GRAINGER®

FOR THE ONES WHO GET IT DONE



FOR THE RESILIENT ONES WHO GET IT DONE℠

SUPPLIES & SOLUTIONS FOR EVERY INDUSTRY℠

INDUSTRIAL & SAFETY **REFERENCE GUIDE**

SOLUTIONS THAT **MAKE A DIFFERENCE**

This catalog is filled with products, services and resources that can truly have an impact on your bottom line. You'll find product specs, selection guides and helpful icons, plus product and brand indexes to locate just what you're after.

Can't find it in here? Visit **Grainger.com®** to shop our full selection of over **1.5 million products** in more than **30 categories** to help with the unique needs of your business.

ORDER YOUR WAY!

- **ONLINE** at Grainger.com® and view your pricing
- **ON THE GO** with the Grainger app or mobile site
- **ON THE PHONE** at 1-800-GRAINGER
- **IN A BRANCH** when you want to stop by

**Within the continental U.S. when your order is received by 5 p.m. local time at your local shipping facility, which may be in a different time zone from you. Deliveries occur Monday-Friday, excluding holidays. May be subject to limited product availability on select high-demand, pandemic-related items.*

NEXT-DAY DELIVERY ON MOST ORDERS

With most in-stock items shipping the same day*, you'll get the products you need, when you need them.

24/7 SUPPORT

Round-the-clock customer service, on-demand expertise and after-hours emergency service options mean you can count on us 24/7.

REAL-TIME AVAILABILITY & ORDER TRACKING

Simply go online for access to shipping info and local branch product availability.

TOP-NOTCH SERVICES & RESOURCES

From safety and inventory solutions to mobile and technical support, we're here to help keep your facility functioning safely and smoothly.





A FASTER & EASIER MOBILE APP

Improved features like Search by Image and an enhanced experience make the Grainger mobile app better than ever.





SCAN. ORDER. DONE.

Simply scan the item number of the product you need from this catalog, add it to your cart and quickly check out.

Download it NOW!

Download on the App Store | GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



DIGITAL CATALOGS

Get all the benefits of our print catalogs combined with the searchable convenience of the web!

grainger.com/catalogonline

GC GRAINGER CHOICE®

SIMPLIFY YOUR SHOPPING

Look for the Grainger Choice badge to quickly identify a wide range of items that help you balance quality, productivity and price.

grainger.com/choice

GRAINGER KnowHow®

Check out this mobile-friendly and searchable online source for workplace news. Stay in the know with our collection of insights, videos and interactive content.

grainger.com/know-how



CONTENTS

MOTORS 3
POWER TRANSMISSION 67
ELECTRICAL 153
LIGHTING 422
TEST INSTRUMENTS 536
LAB EQUIPMENT & SUPPLIES 626
POWER TOOLS 664
HAND TOOLS 741
FLEET/VEHICLE MAINTENANCE ... 894
OUTDOOR EQUIPMENT & GENERATORS 980
LADDERS 1024
MATERIAL HANDLING 1050
SHELVING & STORAGE 1226
SHOP FURNITURE 1316
OFFICE FURNITURE 1336
OFFICE SUPPLIES 1351
PACKAGING 1384
FOOD SERVICE & HOSPITALITY ... 1431
JANITORIAL 1485
PAINTING 1595
SAFETY: PPE 1635
SAFETY: PUBLIC SAFETY 1807
SAFETY: FACILITY 1825
SECURITY 1954
FASTENERS 2054
RAW MATERIALS 2179
ADHESIVES 2216
MACHINING 2239
ABRASIVES 2364
WELDING 2405
LUBRICATION 2438
HYDRAULICS 2466
PNEUMATICS 2496
HOSES 2604
PUMPS 2619
PLUMBING 2702
HVAC & REFRIGERATION 2915

ONLINE PURCHASING **SOLUTIONS**



Help reduce purchasing costs and increase productivity with Grainger's suite of digital solutions. Register and sign in to your Grainger account to get started.



GRAINGER.COM®

Check real-time product availability, access order history and lists, set up auto-reorder and view your account pricing with just a click of a button. Our improved search tools and express checkout help you complete your orders in no time.

- **EASY-TO-FIND** PRODUCTS
- **SMART** ORDERING
- **FAST** CHECKOUT

GRAINGER ORDER MANAGEMENT SYSTEM (OMS)

Set controls on how much your employees can spend on orders, establish spending limits for specific time periods and set up an approval process tailored to your needs. It's easy and customizable.

- **CONTROL** YOUR SPEND
- **STREAMLINE** THE APPROVAL PROCESS
- **CREATE** USAGE REPORTS

ePROCUREMENT

This solution is a seamless electronic connection between your company and Grainger. An eProcurement system is set up to help you find products, place orders and make payments easily and efficiently. Grainger can integrate with JAGGAER, Oracle, SAP Ariba®, Coupa, Workday and so many more.

- **MANAGE** YOUR SPEND
- **ENSURE** PROCUREMENT COMPLIANCE
- **AUTOMATE** PROCESSES

MOBILE APP

Use your smartphone or iPad® to place orders when you're on the go. Get pricing and availability by simply scanning the item number of the product you need, adding it to your cart and quickly checking out. Looking for a Grainger branch? No problem. You can locate the nearest branch right from the mobile app.

- **PLACE** ORDERS ON THE GO
- **CHECK** REAL-TIME AVAILABILITY
- **LOCATE** THE NEAREST BRANCH

SIMPLIFY YOUR ONLINE PURCHASING TODAY!
*VISIT **GRAINGER.COM/ONLINEPURCHASING***

Download on the App Store | GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC.

SAFETY DEMANDS A **24/7** COMMITMENT

No matter where you are in your safety journey, count on Grainger for environmental, health and safety solutions to help you **keep your people and facilities safe and healthy.**



BUILDING A SAFETY MINDSET

Our goal is to help you send your people home safe and healthy at the end of every day. It's a huge responsibility; one that's nearly impossible to accomplish alone. Building a safety mindset takes a total commitment from your crew—whether they're on or off the clock.

Look to Grainger for tools and resources to help you instill a 24/7 commitment to safety with your people. Take advantage of our vast product selection, safety expertise and relationships with third-party safety service providers to help you:

- **> REDUCE INJURIES**
- **> ENSURE COMPLIANCE**
- **> MANAGE RISK**
- **> INCREASE PRODUCTIVITY**
- **> LESSEN ENVIRONMENTAL IMPACT**

LEARN MORE AT
GRAINGER.COM/SAFETY

Think Safety. Think Grainger.®

ASK A SPECIALIST

- > Board-certified safety consultants equipped with the resources and knowledge to assist with your EHS, contingency and emergency response plans.
- > Online Solution Center packed with access to hundreds of articles, SDS sheets and OSHA checklists.
- > Dedicated technical support specialists to help you find the right solution for your needs.

Call us at **1-800-GRAINGER**



AMY
Technical Product Support Specialist
26 years at Grainger

GRAINGER®
FOR THE ONES WHO GET IT DONE

KeepStock®
Inventory Management



TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts, tools and supplies in the right place right when you need them? Put Grainger's expertise to work for you. It's almost like managing your stuff—those critical inventory items that help keep your operations running—on autopilot.

Inventory managed. Space organized. Time and money saved.

Contact your Grainger rep or visit grainger.com/keepstock to learn more.

Grainger KeepStock solutions are subject to customer eligibility and agreements.



ALABAMA

Birmingham . . . . . 3735 First Ave. N., 35222
Huntsville . . . . . 1912 Jordan Lane NW, 35816
Mobile . . . . . 1241 Montlimar Dr., 36609
Montgomery . . . . . 541 George Todd Dr., 36117

ALASKA

Anchorage . . . . . 6240 B St., 99518

ARIZONA

Tucson . . . . . 3415 S. Dodge Blvd., 85713

PHOENIX AREA

Gilbert . . . . . 775 E. Baseline Rd., 85233
Phoenix . . . . . .960 N. 51st Ave., 85043
Phoenix . . . . . 2002 W. Rose Garden Lane, 85027
Phoenix . . . . . .4465 E. Broadway Rd., 85040

ARKANSAS

Ft. Smith . . . . . 3807 Planters Rd., 72908
Little Rock . . . . . .6100 Murray St., 72209
Springdale . . . . . .1205 S. Old Missouri Rd., 72764

CALIFORNIA

Bakersfield . . . . . .3900 Easton Dr., 93309
Citrus Heights . . . . . .6412 Tupelo Dr. #G, 95621
Fresno . . . . . .1335 Tuolumne St., 93706
Salinas . . . . . .1334 Dayton St., 93901
Stockton . . . . . 2501 Stagecoach Rd., 95215
West Sacramento . . . . 3691 Industrial Blvd., 95691

BAY AREA

Burlingame . . . . . 1360 Rollins Rd., 94010
Concord . . . . . .2288 Pike Ct., 94520
Rohnert Park . . . . . .5760 Commerce Blvd., 94928
San Jose . . . . . 2261 Ringwood Ave., 95131
San Leandro . . . . . .444 Doolittle Dr., 94577

INLAND EMPIRE AREA

Rancho Cucamonga . . . . . .9220 Hyssop Dr., 91730
Riverside . . . . . .1151 E. Columbia Ave., 92507

LA AREA

Compton . . . . . .1050 W. Walnut St., 90220
Inglewood . . . . . .10804 S. La Cienega Blvd., 90304
Los Angeles . . . . . 570 S. Alameda St., 90013
Northridge . . . . . .8930 Winnetka Ave., 91324
Oxnard . . . . . .101 S. Rice Ave., 93030
Santa Fe Springs . . .10137 S. Norwalk Blvd., 90670

CALIFORNIA cont.

ORANGE COUNTY AREA

Anaheim . . . . . .310 E. Ball Rd., 92805
Garden Grove* 12871 Western Ave., Suite A, 92841
Santa Ana . . . . . .2401 Pullman St., 92705

SAN DIEGO AREA

Chula Vista . . . . . .1150 Bay Blvd., 91911
San Diego . . . . . 8001 Raytheon Rd., 92111
San Marcos . . . . . .1321 Linda Vista Dr., 92078

COLORADO

Colorado Springs . . . . 610 Popes Bluff Trail, 80907
Fort Collins . . . . . 4531 Innovation Dr., 80525

DENVER AREA

Denver . . . . . 95 S. Tejon St., 80223
Denver . . . . . 4885 Paris St., 80239
Denver* . . . . . 6935 Broadway, 80221

CONNECTICUT

Hartford . . . . . 75 Maxim Rd., 06114
North Haven . . . . . .124 Universal Dr., 06473

DELAWARE

New Castle . . . . . .117 Quigley Blvd., 19720

DISTRICT OF COLUMBIA

DC AREA

Dulles . . . . . 101 International Dr., 20166
Falls Church . . . . . .2947 Gallows Rd., 22042
Lanham . . . . . 4748 Forbes Blvd., 20706
Rockville . . . . . .701 Dover Road, 20850

FLORIDA

Clearwater . . . . . .12579 49th St. N., 33762
Ft. Myers . . . . . 12431 Metro Pkwy., 33966
Jacksonville . . . . . .8450 Phillips Hwy., 32256
Ocala . . . . . .2620 SW 17th Rd., Suite 300, 34471
Orlando . . . . . .4180 L B McLeod Rd., 32811
Orlando . . . . . 902 Lee Rd., 32810
Pompano Beach . .2131 SW 2nd St., Bldg. 8, 33069
Sarasota . . . . 6685 Whitfield Industrial Ave., 34243
Tallahassee . . . . . .3924 W. Pensacola St., 32304
West Melbourne . . . . . .101 S. Wickham Rd., 32904
West Palm Beach 1800 N. Florida Mango Rd., 33409

FLORIDA cont.

MIAMI AREA

Doral . . . . . 2255 NW 89th Place, 33172
Miami . . . . . 7200 NW 37th Ave., 33147

TAMPA AREA

Tampa . . . . . 1820 Tampa East Blvd., 33619
Tampa . . . . . .4505 W. Hillsborough Ave., 33614

GEORGIA

Athens . . . . . 1205 Commerce Rd., 30607
Augusta . . . . . .1516 Gordon Hwy., 30906
Garden City . . . . .1324 US Highway 80 West, 31408
Macon . . . . . .2048 Paul Walsh Dr., 31206

ATLANTA AREA

Atlanta . . . . . .1721 Marietta Blvd. NW, 30318
Forest Park . . . . . .5300 Frontage Rd., 30297
Marietta . . . . . .631 S. Marietta Pkwy. SE, 30060
Norcross . . . . . 6655 Crescent Dr., 30071

HAWAII

Honolulu . . . . . 2833 Paa St., 96819

IDAHO

Boise . . . . . .5576 Irving St., 83706

ILLINOIS

Alsip . . . . . 6001 W. 115th St., 60803
Arlington Heights . . . . 475 E. Algonquin Rd., 60005
Downers Grove . . . . . 2701 Ogden Ave., 60515
Peoria . . . . . .1017 SW Jefferson Ave., 61605
Rockford . . . . . 5862 Harrison Ave., 61108
Waukegan . . . . . .3585 Sunset Ave., 60087

CHICAGO AREA

Chicago . . . . . 6450 S. Austin Ave., 60638
Chicago . . . . . .2356 S. Ashland Ave., 60608
Chicago . . . . . 2221 N. Elston Ave., 60614
Franklin Park . . . . . 3240 Mannheim Rd., 60131
Morton Grove . . . . . 8045 River Dr., 60053

INDIANA

Evansville . . . . . .837 N. Congress Ave., 47715
Gary . . . . . 1701 Cline Ave., 46406
Indianapolis . . . . . 1819 W. 16th St., 46202
Indianapolis . . . . . 9210 Corporation Dr., 46256
South Bend . . . . . .1750 Commerce Dr., 46628

Grainger.com®

1-800-GRAINGER (472-4643) - **Available 24/7**

*Grainger Express locations fulfill will-call orders only—no on-hand inventory.
See Grainger.com® or the Grainger mobile app for additional branch information.

IOWA
Cedar Rapids . . . . . .715 33rd Ave. SW, 52404
Davenport . . . . . .961 E. 53rd St., 52807
Des Moines . . . . . 1811 E. Sheridan Ave., 50316

KANSAS
Lenexa . . . . . 14790 W. 99th St., 66215
Wichita . . . . . 1920 S. West St., 67213

KENTUCKY
Lexington . . . . . 1351 Georgetown Rd., 40511
Louisville . . . . . 1901 Plantside Dr., 40299

LOUISIANA
Lafayette . . . . . .1508 Eraste Landry Rd., 70506
West Monroe . . . . . .500 Thomas Rd., 71292
Shreveport . . . . . .5126 Hollywood Ave., 71109
Sulphur . . . . . .2502 S. Cities Service Hwy., 70663

BATON ROUGE AREA
Baton Rouge . . . . . .12455 Airline Highway, 70817
Gonzales . . . . . .9506 Ashland Rd., 70737

NEW ORLEANS AREA
New Orleans . . . . . 601 S. Galvez St., 70119
New Orleans . . . . . .825 Distributors Row, 70123

MAINE
Portland . . . . . .425 Warren Ave., 04103

MARYLAND
DC AREA
Lanham . . . . . 4748 Forbes Blvd., 20706
Rockville . . . . . .701 Dover Road, 20850

BALTIMORE AREA
Annapolis Junction . . . .10981 Guilford Rd., 20701
Baltimore . . . . . .2100 Haines St., 21230
Baltimore . . . . . .8820 Citation Rd., 21221

MASSACHUSETTS
Springfield . . . . . 790 Cottage St., 01104

BOSTON AREA
Everett . . . . . 160 Broadway, 02149
Norwood . . . . . 428 University Ave., 02062
Watertown . . . . . 400 Arsenal St., 02472
Woburn . . . . . 31 Cabot Rd., 01801

MICHIGAN
Ann Arbor . . . . . .2915 Boardwalk St., 48104
Flint . . . . . 2711 Lapeer Rd., 48503
Grand Rapids . . . 3803 Roger B Chaffee SE, 49548
Kalamazoo . . . . . .2476 Azo Dr., 49048
Lansing . . . . . 5617 Enterprise Dr., 48911
Saginaw . . . . . .220 W. Morley Dr., 48601

MICHIGAN cont.
DETROIT AREA
Detroit . . . . . .1201 W. Lafayette Blvd., 48226
Farmington Hills . . . . . .23800 Haggerty Rd., 48335
Madison Heights . . . 1587 E. Whitcomb Ave., 48071
Romulus . . . . . 6874 Middlebelt Rd., 48174
Warren . . . . . 25940 Groesbeck Hwy., 48089

MINNESOTA
MINNEAPOLIS/ST. PAUL AREA
Plymouth . . . . . .2450 Annapolis Lane N., 55441
Bloomington . . . . . .201 E. 78th St., 55420
St. Paul . . . . 345 Plato Blvd. East, Suite 120, 55107

MISSISSIPPI
Jackson . . . . . .3551 I-55 S., 39212

MISSOURI
Springfield . . . . . .808 N. Cedarbrook Ave., 65802

KANSAS CITY AREA
Kansas City . . . . . .2300 E. 18th St., 64127
Lenexa . . . . . 14790 W. 99th St., 66215

ST. LOUIS AREA
Maryland Heights . . . . . .2535 Metro Blvd., 63043
St. Louis . . . . . 2227 Clark Ave., 63103

MONTANA
Billings . . . . . .221 Moore Lane, 59101

NEBRASKA
Omaha . . . . . 9345 J St., 68127

NEVADA
Las Vegas . . . . . .2401 Western Ave., 89102
Sparks . . . . . .900 Packer Way, 89431

NEW HAMPSHIRE
Manchester . . . . . .370 E. Industrial Dr., 03109

NEW JERSEY
Clifton . . . . . .308 Allwood Rd., 07012
Eatontown . . . . . 212 Industrial Way W., 07724
Elizabeth . . . . . 560-596 Bercik St., Suite 1, 07201
Mt. Laurel . . . . . .819 E. Gate Dr., 08054
South Plainfield . . . . . 1001 Hadley Rd., 07080

NEW MEXICO
Albuquerque . . . . . 3901 Osuna Rd. NE, 87109
Farmington . . . . . 1201 San Juan Blvd., 87401

NEW YORK
Albany . . . . . 35 Corporate Circle, 12203
Buffalo . . . . . .50 McKesson Pkwy., 14225
East Syracuse . . . . . .6285 E. Molloy Rd., 13057
Elmsford . . . . . 505 Saw Mill River Rd., 10523
Rochester . . . . . .430 W. Metro Park, 14623
Rochester . . . . . 1999 Mt. Read Blvd., 14615

NEW YORK cont.
LONG ISLAND AREA
Bohemia . . . . . 199 Orville Dr., 11716
Melville . . . . . .1 Park Dr., 11747

NEW YORK CITY AREA
Brooklyn . . . . . .815 3rd Ave., 11232
Maspeth (Queens) . . . . . .58-45 Grand Ave., 11378

NORTH CAROLINA
Asheville . . . . . .834 Riverside Dr., 28804
Charlotte . . . . . .1401 S. Mint St., 28203
Charlotte . . 1440 Westinghouse Blvd., Suite L, 28273
Greensboro . . . . . 2506 Greengate Dr., 27406
Raleigh . . . . . .4820 Signett Dr., 27616
Wilmington . . . . . 505 Covil Ave., 28403

NORTH DAKOTA
Fargo . . . . . 3825 12th Ave. N., 58102

OHIO
Akron . . . . . .420 Kennedy Rd., 44305
Brooklyn Heights . . . . .1035 Valley Belt Rd., 44131
Canton . . . . . .1721 6th St. SW, 44706
Columbus . . . . . 3640 Interchange Rd., 43204
Perrysburg . . . . . 1300 Third St., 43551
Worthington . . . . 6999 Huntley Rd., Suite A, 43229
Youngstown . . . . . .360 Victoria Rd., 44515

CINCINNATI AREA
Cincinnati . . . . . 939 W. 8th St., 45203
Cincinnati . . . . . .4420 Glendale Milford Rd., 45242
Fairfield . . . . . 8700 LeSaint Dr., 45014

DAYTON AREA
Dayton . . . . . .2321 Needmore Rd., 45414

OKLAHOMA
Oklahoma City . . . . 4314 Will Rogers Pkwy., 73108
Tulsa . . . . . .10707 E. Pine St., 74116

OREGON
Portland . . . . . .6335 N. Basin Ave., 97217

PENNSYLVANIA
Bethlehem . . . . . .2011 Avenue C, 18017
Erie . . . . . 415 W. 12th St., 16501
Harrisburg . . . . . 4320 Lewis Rd., 17111

PHILADELPHIA AREA
Folcroft . . . . . .1530 Delmar Dr., 19032
Mt. Laurel . . . . . .819 E. Gate Dr., 08054
New Castle . . . . . .117 Quigley Blvd., 19720
Philadelphia . . . . . .401 N. 8th St., 19123
Philadelphia . . . . . .10401 Drummond Rd., 19154

PITTSBURGH AREA
Pittsburgh . . . . . 201 RIDC Park West Dr., 15275
Pittsburgh . . . . . .3150 Liberty Ave., 15201

Grainger.com®

1-800-GRAINGER (472-4643) - **Available 24/7**

For after-hours emergency branch access, call 1-800-CALL-WWG
($50 fee may apply, see our Terms of Sale for details).

RHODE ISLAND
Warwick . . . . . 78 Jefferson Blvd., 02888

SOUTH CAROLINA
Greenville . . . . . 730 Congaree Rd., 29607
North Charleston . . . 7401 Pepperdam Ave., 29418
West Columbia . . . . . 550 Chris Dr., 29169

SOUTH DAKOTA
Sioux Falls . . . . . .500 E. 50th St. N., 57104

TENNESSEE
Chattanooga . . . . . 902 Creekside Rd., 37406
Knoxville . . . . . .6500 Baum Dr., 37919
Memphis . . . . . 1901 Nonconnah Blvd., 38132
Nashville . . . . . 1021 Charlotte Ave., 37203
Nashville . . . . . .1938 Elm Tree Dr., 37210

TEXAS
Amarillo . . . . . 5807 Canyon Dr., 79110
Austin . . 6006 E. Ben White Blvd., Suite 500, 78741
Austin . . . . .7950 Research Blvd., Suite 101, 78758
Beaumont . . . . . 125 Sawyer St., 77702
Bryan . . . . . 1408 W. Villa Maria Rd., 77801
Corpus Christi . . . . . .430 Sun Belt Dr., 78408
El Paso . . . . . .1400 Lomaland Dr., 79935
Kenedy . . 322 West Main, Suites 120 & 140, 78119
Laredo . . . . . .610 Gale St., 78041
Longview . . . . . .1507 W. Cotton St., 75604
Lubbock . . . . . .502 E. 40th St., 79404
McAllen . . . . . .921 E. Pecan Blvd., 78501
Midland . . . . . .4110 S. County Rd. 1276, 79706
San Antonio . . . . . 4924 NW Loop 410, 78229
San Antonio . . . . . 5011 Rittiman Rd., 78218
Waco . . . . . .6901 Imperial Dr., 76712

DFW AREA
Arlington . . . . . 2251 E. Division St., Suite A, 76011
Carrollton . . . . . .1305 N. Interstate 35E, 75006
Dallas . . . . . 4242 Platinum Way, 75237
Dallas . . . 8321 John W. Carpenter Freeway, 75247
Ft. Worth . . . . . 300 W. Vickery Blvd., 76104
Ft. Worth . . . . . 5000 Northeast Pkwy., 76106
Garland . . . . . .2701 W. Kingsley Rd., 75041
Plano . . . . . 2601 E. Plano Pkwy., 75074

HOUSTON AREA
Conroe . . . . . .2323 N. Frazier St., 77303
Deer Park . . . . . 1251 Hall Court, 77536
Houston . . . . . .1222 South Loop West, 77054
Houston . . . . . 4545 Darien St., 77028
Houston . . . . . 6050 Southwest Freeway, 77057
Houston . . . . . .8200 Pinemont Dr., 77040
Houston . . . . . 16741 North Freeway, 77090
Houston . . . . . 17010 Katy Fwy., 77094
Stafford . . . . . .3900 Greenbriar Dr., 77477

UTAH
Ogden . . . . . .2958 South 1900 W., 84401
Salt Lake City . . . . . .2775 S. 900 W., 84119

VIRGINIA
Dulles . . . . . 101 International Dr., 20166
Falls Church . . . . . .2947 Gallows Rd., 22042
Norfolk . . . . . 1401 Sewells Point Rd., 23502
Richmond . . . . . .2424 Magnolia Court, 23223

WASHINGTON
Everett . . . . . .3013 Walnut St., 98201
Fife . . . . . 2802 Pacific Hwy. E., 98424
Pasco . . . . . 3306 W. Marie St., 99301
Spokane Valley . . . . 5706 E. Broadway Ave., 99212

SEATTLE AREA
Seattle . . . . . .4930 3rd Ave. S., 98134
Tukwila . . . . . .6725 S. Todd Blvd., 98188

WEST VIRGINIA
Charleston . . . . . 3000 7th Ave. W., 25387
Huntington . . . . . .440 3rd Ave., 25701

WISCONSIN
Appleton . . . . . 600 N. Lynndale Dr., 54914
Green Bay . . . . . 751 Morris Ave., 54304
Madison . . . . . 501 Atlas Ave., 53714
Milwaukee . . . . . .202 N. Jackson St., 53202
Milwaukee . . . . . .5819 N. 117th St., 53225
Waukesha . . . . N21 W23020 Watertown Rd., 53188

WYOMING
Casper . . . . . 1110 Wilkins Circle, 82601



24/7 EMERGENCY SUPPORT

When you need products in a pinch, **call our After-Hours Emergency Service.** Most of our Grainger branch locations are able to open anytime—even nights and weekends—to help you get what you need.*

In an emergency, call 1-800-CALL-WWG

**$50 fee may apply, see our Terms of Sale for details. Grainger account required. We can establish a new account for business customers at the time of the emergency call. After-hours service may not be available in some locations, call 1-800-GRAINGER for more information.*

Grainger.com®

1-800-GRAINGER (472-4643) - **Available 24/7**

See Grainger.com® or the Grainger mobile app for additional branch information.

ABOUT GRAINGER'S INTERNATIONAL PRESENCE

Grainger understands international operations can be complex. When it comes to getting the maintenance, repair and operating (MRO) products and services you need, your business demands an easy, reliable and consistent experience. Whether you manage a large manufacturing plant that produces products for millions of people or a small local business that residents rely on, Grainger makes doing business across borders easier with international solutions, managed locally, that help alleviate challenges associated with MRO.

WHY INTERNATIONAL OPERATIONS CHOOSE GRAINGER

Grainger offers MRO products, services and solutions that are globally served with a local experience to help you with the pressures associated with keeping your operations running and people safe. Grainger carries 250K–1.5M products across 28–35 categories within the US, Canada, Mexico and UK, and serves businesses through Global Export across 120+ countries including Latin America, the Middle East and Asia Pacific with our dedicated export team that's ready to take care of your export needs.

GRAINGER IS READY TO HELP

Contact your Grainger Representative, email export@grainger.com or call +1-847-588-5000 today!



CANADA
123 Commerce Valley Dr. East,
Suite 700
Thornhill, Ontario, Canada L3T 7W8
Phone: +1-888-602-0000
Website: grainger.ca

EUROPE, MIDDLE EAST & AFRICA SALES OFFICE
Office 1067, Building 7WB, DAFZA
Dubai, United Arab Emirates
Phone: +971-4-207-2904
Email: gccsales@grainger.com

SOUTHEAST ASIA PACIFIC & OCEANIA
EightyEight at Kasablanka Office Tower
Floor 18, Unit A-H
Jl. Casablanca Raya Kav 88
Jakarta 12870, Indonesia
Phone: +6221-29607523
Email: globalexport_apac@grainger.com

MEXICO
Avenida. Desarrollo #500
Colonia Finsa. Guadalupe,
N.L. CP. 67132. México
Phone: +52-818-1569800/9900
Email: servicio_clientes@grainger.com
Website: grainger.com.mx

UNITED KINGDOM (CROMWELL)
65 Chartwell Drive
Wigston, Leicester, LE18 2FS
Phone: +44 (0)116 288 8000
Email: international@cromwell.co.uk.

INDIA, NORTH CENTRAL ASIA SALES OFFICE
9th Floor El Tara Building,
Off Orchard Avenue
Hiranandani Gardens, Powai
Mumbai 400076, India
Phone: +91-22-42872800
Email: indiacustomersupport@grainger.com

LATIN AMERICA & CARIBBEAN REGIONAL SALES OFFICE
2255 Northwest 89th Place,
Miami, Florida 33172-2428
Phone: +1-305-591-2512
Email: latin.america@grainger.com

PUERTO RICO
105 Ave Conquistadores Cataño, Puerto
Rico 00962
Phone: +787-275-3500
Email: puerto.rico@grainger.com

For more information, visit **grainger.com/worldwide**

**All products may not be available within the US, UK, Mexico and Canada or otherwise available for export depending on the country. May be subject to limited product availability on select high-demand, pandemic-related items.*

Motor Selection Guidelines

Motors are used in a wide variety of applications. In some applications more than one motor design would work; in others, if an exact replacement cannot be found, a similar motor with slight differences in mechanical and electrical characteristics will provide reliable operation. The following selection guide is designed to help you choose the correct motor for your application.

STEP 1: GATHER MOTOR INFORMATION

You will need the following information to properly select a motor. If you are replacing a motor, much of the information can be found on the existing motor nameplate. See the sample nameplate on this page:

1-Phase (PH): Either single (1) or three (3). Match exactly.

2-Voltage (Volts): Match exactly.

3-Horsepower (HP): Very small motors are often rated in watts. Choose an equal or next higher HP.

4-Frame: Match exactly.

5-RPM: Match within 5%.

6-Frequency (Hz): Match exactly.

7-Service Factor (SF): Choose a motor of equal or greater number.

8-Design: See table on this page.

9-Enclosure (Encl.): See table on this page.

10-Duty: If current motor is intermittent duty, you may upgrade to continuous.

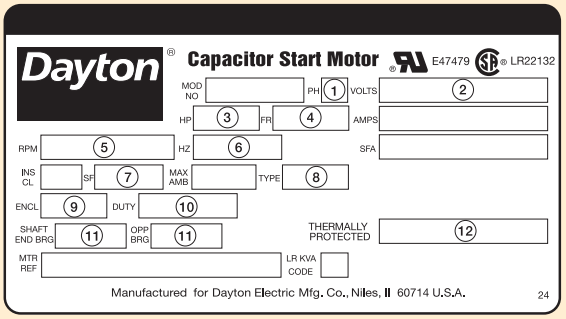
11-Bearing Type: Sleeve or Ball.

12-Thermal Protection: See Thermal Protection Information on this page.

STEP 2: DETERMINE THE RIGHT CATALOG SECTION

By your category: Many motors are listed by category. You will find these categories under "Motors" in the Product Index in the catalog. Turn to the specific page or section to find your motor. If your category is not listed in the index, choose your motor by its characteristics.

By the characteristics: Motor design, horsepower, RPM, frame, voltage, and enclosure. Grainger carries General Purpose motors designed for reliable use in a wide variety of applications, Definite Purpose motors for specific applications,



HVAC motors for various air moving applications, and Pump motors for applications moving water and gases.

General Purpose Motors are designed for mechanical loads (also effective for air moving), and for hard-to-start applications such as conveyors, belt-driven equipment, machine tools, and reciprocating pumps. These motors feature ball bearings to handle heavier radial and axial loads and heavier construction for industrial applications.

Definite Purpose Motors are designed for specific applications such as washdown, hazardous location, farm-duty, etc. Motor features are driven by the specific application's environment.

HVAC Motors are designed mostly for air moving and other light- to medium-duty applications, such as fans and centrifugal pumps, small tools, and office equipment.

Pump Motors are used for pump applications like pool pumps, carbonator pumps, and close-couple pumps. Motor features are driven by the application and move water and gases.

STEP 3: SELECT THE SPECIFIC MOTOR

Match the information gathered in Step 1.

AC MOTOR TYPES

Phase	Design	Typical RPM	Starting Torque as Percent of Full-Load Torque	Comparative Efficiency	Typical Uses
1	Shaded Pole	1050, 1550, 3000	Very Low 50-100%	Low	Small direct-drive fans & blowers
1	Permanent Split Capacitor (PSC)	825, 1075, 1625	Low 75-150%	Moderate	Direct-drive fans & blowers
1	Split-Phase	1140, 1725, 3450	Low to Moderate 130-170%	Moderate	Belt-drive & direct-drive fans & blowers, small tools, centrifugal pumps, & appliances
1	Capacitor-Start	1140, 1725, 3450	Moderate to High 200-400%	Moderate to High	Pumps, compressors, tools, conveyors, farm equipment, & industrial ventilators
3	3-Phase	1140, 1725, 3450	Moderate to High 200-300%	High	Applications where 3-Phase power is available

ENCLOSURE TYPES

Enclosure Type	How Can I Tell?	Where Do I Use This Enclosure?
Open Dripproof (ODP)/ Open/Open Air-Over (OPAO)	Ventilation holes in shell and/or endshield	Clean, dry, nonhazardous environments
Totally Enclosed Fan-Cooled (TEFC)/Totally Enclosed Nonventilated (TENV)	No ventilation holes in shell or endshield	Dirty, moist, nonhazardous environments
Hazardous Location	Enclosed. Must have a UL Hazardous Location nameplate on motor	Designed for use in hazardous environments as defined by National Electrical Code (NEC) classifications. NEC Class and Group are designated on UL Hazardous Location nameplate mounted on motor. See page 6 for more details.

Thermal Protection Information

Motors that start automatically (e.g. thermostat controlled) after tripping and that are located out of operator sight must be protected against dangerous overheating due to failure-to-start or overloading.

This protection may be a separate overcurrent device (e.g. motor starter) complying with Article 430 of the National Electrical Code (NEC), a thermally protected motor (internal motor protection), or an impedance-protected motor.

Motors with automatic reset thermal protection MUST NOT be used where automatic or otherwise unexpected starting of the motor could be hazardous. Applications where automatic restarting could be hazardous include compressors, conveyors, power tools, farm equipment, and some fans and blowers. Where such a hazard exists, always use a manual reset, thermally protected motor.

UL 507 Standard

Any motor used in a fan product, such as bathroom exhaust fans, wall-insert fans, ceiling-insert fans, attic-exhaust fans, whole-house fans, and duct fans, etc., which are built into or within the building structure and which are likely to operate unattended or in situations in which the operator may not detect a locked rotor (stalled motor) condition, must have either a manual reset thermal protector or a thermal cutoff (1-shot) device.

Range hoods, circulating fans, pedestal fans, and ceiling-suspended fans are not included. Agricultural fans are included if they are built into the building structure and are likely to operate unattended or in situations in which the person operating the fan may not detect a locked rotor (stalled motor) condition; they must have either a manual reset thermal protector or a thermal cutoff (1-shot) device.

Premium Efficiency vs. Standard Efficiency

If you operate a 25 HP premium efficiency motor at full load for 24 hr. a day (8760 hr. per yr.) and your cost per kilowatt hr. is 9 cents, you can save $532.00 annually.

This comparison is based on a premium efficiency motor with a 94.1% efficiency rating vs. a high efficiency motor with a 91.0% efficiency rating.

Increased efficiency leads to lower operating temp., resulting in longer life.

Cool Operation: The life of an insulation system doubles for each 10°C reduction in operating temp.

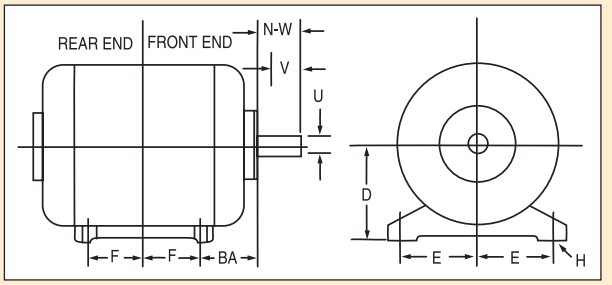
Longer Bearing Life: The lower the temp., the longer the bearing grease will last.

Annual Savings = 0.746 x HP x L x C x N ($^{100}/_{E1}$ - $^{100}/_{E2}$)

HP = Motor Horsepower
L = Percent Load Divided by 100
C = Energy Cost, Dollars per kW Hr.
N = Running Time, Hr. per Yr.
E1 = Efficiency (%) of Standard Efficiency Motor
E2 = Efficiency (%) of Premium Efficiency Motor

Motor Dimensional Chart

Standardized motor dimensions—established by the National Electrical Manufacturers Association (NEMA)—are tabulated below and apply to all base-mounted motors listed herein that carry a NEMA frame designation.



NEMA Frame	All Dimensions in Inches D*	2E	2F	BA	H	N-W	U	V§ Min.	Key Wide	Key Thick	Key Long
42	2⅝	3½	1 11/16	2 1/16	9/32 slot	1⅛	⅜	—	—	3/64 flat	—
48	3	4¼	2¾	2½	11/32 slot	1½	½	—	—	3/64 flat	—
48H	3	4¼	4¾	2½	11/32 slot	1½	½	—	—	3/64 flat	—
56	3½	4⅞	3	2¾	11/32 slot	1⅞ †	⅝ †	—	3/16 †	3/16 †	1⅜ ‡
56H	3½	4⅞	3 & 5‡	2¾	11/32 slot	1⅞ †	⅝ †	—	3/16 †	3/16 †	1⅜ †
56HZ	3½	**	**	**	**	2¼	⅞	2	3/16	3/16	1⅜
66	4⅛	5⅞	5	3⅛	13/32 slot	2¼	¾	—	3/16	3/16	1⅞
143T	3½	5½	4	2¼	11/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
145T	3½	5½	5	2¼		2¼	⅞	2	3/16	3/16	1⅜
146AT	3½	5½	5½	2¾		2¼	⅞	2	3/16	3/16	1⅜
148AT	3½	5½	7	2¾	11/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
149AT	3½	5½	8	2¾		2¼	⅞	2	3/16	3/16	1⅜
1412AT	3½	5½	11	2¾		2¼	⅞	2	3/16	3/16	1⅜
182	4½	7½	4½	2¾		2¼	⅞	2	3/16	3/16	1⅜
184	4½	7½	5½	2¾	13/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
182T	4½	7½	4½	2¾		2¾	1⅛	2½	¼	¼	1⅜
184T	4½	7½	5½	2¾		2¾	1⅛	2½	¼	¼	1⅜
182AT	4½	7½	4½	2¾		2¼	1⅛	2	¼	¼	1⅜
L182ACY	4½	7½	4½	2¾		2¼	⅞	2	3/16	3/16	1⅜
L182AT	4½	7½	4½	2¾		2¼	1⅛	2	¼	¼	1⅜
186ACY	4½	7½	7	2¾	13/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
186AT	4½	7½	7	2¾		2¼	1⅛	2	¼	¼	1⅜
L186AT	4½	7½	7	2¾		2¼	1⅛	2	¼	¼	1⅜
189AT	4½	7½	10	2¾		2¼	1⅛	2	¼	¼	1⅜
203#	5	8	5½	3⅛	13/32 dia.	2¼	¾	2	3/16	3/16	1⅜
204#	5	8	6½	3⅛		2¼	¾	2	3/16	3/16	1⅜
213	5¼	8½	5½	3½		3	1⅛	2¾	¼	¼	2
215	5¼	8½	7	3½	13/32 dia.	3	1⅛	2¾	¼	¼	2
213T	5¼	8½	5½	3½		3⅜	1⅜	3⅛	5/16	5/16	2⅜
215T	5¼	8½	7	3½		3⅜	1⅜	3⅛	5/16	5/16	2⅜
219AT	5¼	8½	11	3½	13/32 dia.	2¾	1⅜	2½	5/16	5/16	1¾
2110AT	5¼	8½	12½	3½		2¾	1⅜	2½	5/16	5/16	1¾
224#	5½	9	6¾	3½	13/32 dia.	3	1	2¾	¼	¼	2
225#	5½	9	7½	3½		3	1	2¾	¼	¼	2
254#	6¼	10	8¼	4¼	21/32 dia.	3⅜	1⅛	3⅛	¼	¼	2⅜
254U	6¼	10	8¼	4¼		3¾	1⅜	3½	5/16	5/16	2¾
256U	6¼	10	10	4¼	17/32 dia.	3¾	1⅜	3½	5/16	5/16	2¾
254T	6¼	10	8¼	4¼		4	1⅜	3¾	⅜	⅜	2⅞
256T	6¼	10	10	4¼		4	1⅜	3¾	⅜	⅜	2⅞
284#	7	11	9½	4¾	21/32 dia.	3¾	1¼	3½	¼	¼	2¾
284U	7	11	9½	4¾		4⅞	1⅝	4⅝	⅜	⅜	3¾
286U	7	11	11	4¾		4⅞	1⅝	4⅝	⅜	⅜	3¾
284T	7	11	9½	4¾	17/32 dia.	4⅜	1⅞	4⅜	½	½	3¼
286T	7	11	11	4¾		4⅜	1⅞	4⅜	½	½	3¼
284TS	7	11	9½	4¾		3¼ ^	1⅝ ^	3 ^	⅜	⅜	1⅞ ^
286TS	7	11	11	4¾		3¼ ^	1⅝ ^	3 ^	⅜	⅜	1⅞ ^
324#	8	12½	10½	5¼	21/32 dia.	4⅞	1⅝	4⅝	⅜	⅜	3¾
326#	8	12½	12	5¼		4⅞	1⅝	4⅝	⅜	⅜	3¾
324U	8	12½	10½	5¼		5⅜	1⅞	5⅜	½	½	4¼
326U	8	12½	12	5¼		5¼	1⅞	5⅜	½	½	4¼
324T	8	12½	10½	5¼	21/32 dia.	5¼	2⅛	5	½	½	3⅞
326T	8	12½	12	5¼		5¼	2⅛	5	½	½	3⅞
324TS	8	12½	10½	5¼		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
326TS	8	12½	12	5¼		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
364#	9	14	11¼	5⅞		5⅜	1⅞	5⅜	½	½	4¼
364S#	9	14	11¼	5⅞	21/32 dia.	3¼	1⅝	3	⅜	⅜	1⅞
365#	9	14	12½	5⅞		5⅜	1⅞	5⅜	½	½	4¼
364U	9	14	11¼	5⅞	21/32 dia.	6⅜	2⅛	6⅛	½	½	5
365U	9	14	12½	5⅞		6⅜	2⅛	6⅛	½	½	5
364T	9	14	11¼	5⅞		5⅞	2⅜	5⅞	⅝	⅝	4¼
365T	9	14	12½	5⅞	21/32 dia.	5⅞	2⅜	5⅞	⅝	⅝	4¼
364TS	9	14	11¼	5⅞		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
365TS	9	14	12½	5⅞		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
404T	10	16	12½	6⅝		7¼	2⅞	7	¾	¾	5⅝
405T	10	16	13¾	6⅝		7¼	2⅞	7	¾	¾	5⅝
404TS	10	16	12½	6⅝	13/16 dia.	4¼ ^	2⅛ ^	4 ^	½	½	2¾ ^
405TS	10	16	13¾	6⅝		4¼ ^	2⅛ ^	4 ^	½	½	2¾ ^
404U	10	16	12½	6⅝		7⅛	2⅜	6⅞	⅝	⅝	5½
405U	10	16	13¾	6⅝		7⅛	2⅜	6⅞	⅝	⅝	5½
444T	11	18	14½	7½		8½	3⅜	8¼	⅞	⅞	6⅞
445T, 447T§§	11	18	16½	7½	13/16 dia.	8½	3⅜	8¼	⅞	⅞	6⅞
444TS, 447TS§§	11	18	14½	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^
445TS	11	18	16½	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^
444U	11	18	14½	7½		8⅝	2⅞	8⅜	¾	¾	7
445U	11	18	16½	7½	13/16 dia.	8⅝	2⅞	8⅜	¾	¾	7
449T	11	18	25	7½		8½	3⅜	8¼	⅞	⅞	6⅞
449TS	11	18	25	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^

* Dimension "D" will never be greater than the above values on rigid mount motors, but it may be less so that shims up to 1/32" thick (1/16" on 364U and 365U frames) may be required for certain machines.

‡ Designated 56H motors have 2 sets of 2F mounting holes—3" and 5".

^ Standard short shaft for direct-drive applications.

\# Discontinued NEMA frame.

** Base of Dayton 56HZ frame motors has holes and slots to match NEMA 56, 56H and 145T mounting dimensions.

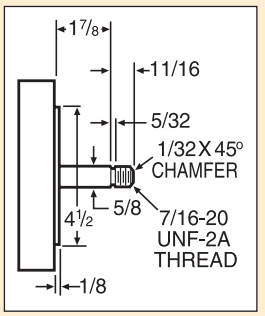
† Certain NEMA 56Z frame motors have ½" dia. x 1½" long shaft with 3/64" flat." These exceptions are noted in this catalog.

§ Dimension "V" is shaft length available for coupling, pinion, or pulley hub—this is a minimum value.

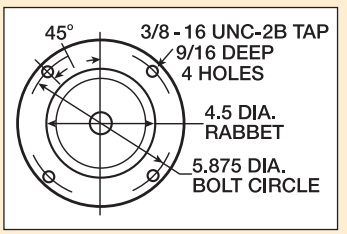
§§ The 2F dimension is 20.

NEMA C- AND J-FACE MOUNTING DIMENSIONS

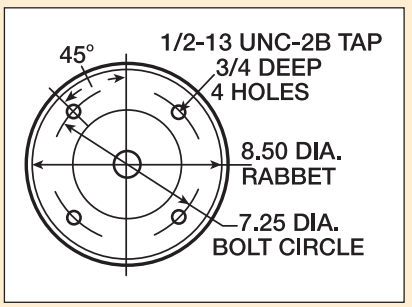
Mounting dimensions of the 56J-Face are exactly the same as the NEMA 56C. 56J-Face has a threaded shaft of stainless steel while all others have a keyed steel shaft. See illustrations and table below for specifics.



56J SHAFT



56C, 56HC, 56J, 143TC AND 145TC – FACE DIMENSIONS



182TC THRU 256TC – FACE DIMENSIONS

NEMA Face	Shaft Dia. (U)	Shaft Long (N-W)	Rabbet Dia.	Bolt Circle Dia.
42C	⅜	1⅛	3	3¾
48C	½	1½	3	3¾
56C	⅝	1⅞	4½	5⅞
56HC‡	⅝	1⅞	4½	5⅞
56J	⅝	2 1/16	4½	5⅞
143TC & 145TC	⅞	2¼	4½	5⅞
146ATC & 1412ATC	⅞	2¼	4½	5⅞
L182ACY & 186ACY	⅞	2¼	4½	5⅞
182TC & 184TC	1⅛	2¾	8½	7¼
186ATC & 189ATC	1⅛	2¼	8½	7¼
213TC & 215TC	1⅜	3⅜	8½	7¼
219ATC & 2110ATC	1⅜	2¾	8½	7¼
254TC & 256TC	1⅝	4	8½	7¼
284TC & 286TC	1⅝	4⅝	10½	9

NEMA Letter Designations Following Frame Number

C: Face-mount; see this page.

H: Designated 56H motors have 2 sets of 2F mounting holes—3" and 5".

J: Face-mount for jet pumps; see this page for dimensions.

K: Has hub for sump pump mounting; see column at left for dimensions.

M, N: Flange mount for oil burner; see page 59.

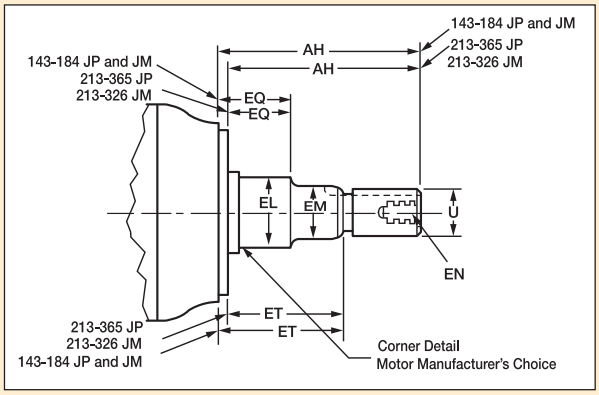
T, U: Integral HP motor dimension standards set by NEMA in 1964 and 1953.

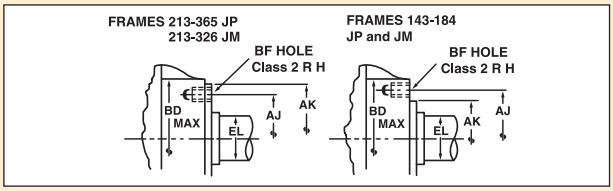
V: Vertical mount.

Y: Nonstandard mounting; see manufacturer's drawing for mounting dimensions.

Z: Nonstandard shaft (N-W+U dimensions); see manufacturer's drawing for shaft dimensions.

CLOSE-COUPLED PUMP SHAFT DIMENSIONS





Frame Designations	Dimensions (in.) U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
143JM/145JM	⅞	1 9/32	1	⅜-16 x ¾	⅝	2⅞	4¼	5⅞	4½	6⅝	⅜-16
143JP/145JP	⅞	1 9/32	1	⅜-16 x ¾	1 9/16	5 15/16	7 5/16	5⅞	4½	6⅝	⅜-16
182JM/184JM	⅞	1¼	1	⅜-16 x ¾	⅝	2⅞	4¼	5⅞	4½	6⅝	⅜-16
182JP/184JP	⅞	1¼	1	⅜-16 x ¾	1 9/16	5 15/16	7 5/16	5⅞	4½	6⅝	⅜-16
213JM/215JM	⅞	1¼	1	⅜-16 x ¾	⅝	2⅞	4¼	7¼	8½	9	½-13
213JP/215JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	7¼	8½	9	½-13
254JM/256JM	1¼	1¾	1⅜	½-13 x 1	⅝	3	5¼	7¼	8½	9¼	½-13
254JP/256JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	7¼	8½	9	½-13
284JM/286JM	1¼	1¾	1⅜	½-13 x 1	⅝	3	5¼	11	12½	13⅞	⅝-11
284JP/286JP	1¼	1¾	1⅜	½-13 x 1	2⅜	5⅞	8⅛	11	12½	13⅞	⅝-11

IEC (International Electrotechnical Commission)

ENCLOSURES

- IEC uses numbers to denote a particular enclosure type
- The numbers follow the letters IP (Ingress Protection) in the motor description
- The first digit signifies, on a rating scale, how well-protected the motor is against entry of solid objects such as dust, wire, tools, or fingers
- The second digit signifies, on a rating scale, the motor's ability to protect against water entry

Common Enclosure Ratings

IP 22 - Open Dripproof Motors

IP 44 or 54 - Totally Enclosed (NEMA 12)

IP 45 - Weatherproof Motors

IP 55 - Washdown-Duty Motors

Common Motor Applications

IC 01 - NEMA Standard Open Motors

IC 40 (IC 410) - Totally Enclosed, Nonvented

IC 41 (IC 411) - Totally Enclosed, Fan-cooled

IC 48 (IC 418) - Totally Enclosed, Air Over

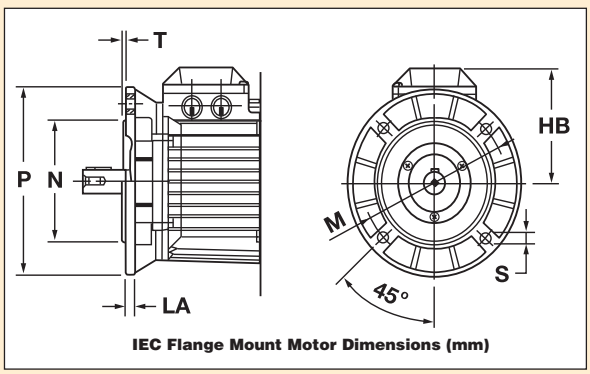
Efficiency Ratings

IEC uses the following ratings to designate motor efficiencies:

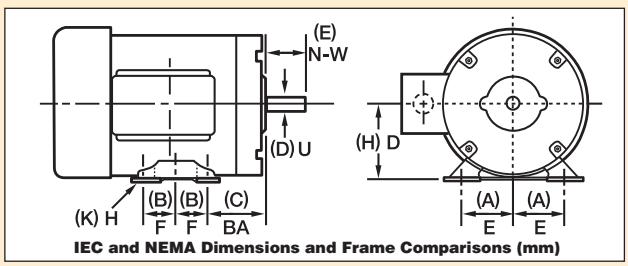
IE2 = Meets Epact levels

IE3 = Meets NEMA Premium

IE4 = Exceeds NEMA Premium



IEC Flange Mount Motor Dimensions (mm)



IEC and NEMA Dimensions and Frame Comparisons (mm)

IEC FLANGE MOUNT MOTOR DIMENSIONS (mm)

Frame	Large Flange (B5) D-Flange HB	LA	M	N	P	S	T	Small Flange (B14) C-Face HB	LA	M	N	P	S	T
63 *	108	7	115	95	140	10	3	68	7	75	60	90	M5	2.5
63	108	7	130	110	160	10	3.5	—	—	—	—	—	—	—
71	120	7	130	110	160	10	3.5	120	9	85	70	105	M6	2.5
80	126	12	165	130	200	12	3.5	126	9	100	80	120	M6	3
90S	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
90L	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
100L	170	11	215	180	250	15	4	170	14	130	110	160	M8	3.5
112	188	12	215	180	250	15	4	188	14	130	110	160	M8	3.5
132	213	12	265	230	300	15	4	215	14	165	130	200	M10	3.5

* M2AA63 can be supplied with shaft extension D=11, E=23, F=4, and GA=125mm, and DB=M4, if flange M=115mm.

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(56) †	56	45	35.5	5.8	9	36	20
63	63	50	40	7	11	40	23
42	66.7	44.5	44.5	7.1	9.5	52.4	28.6
(71)	71	56	45	7	14	45	30
48	76.2	54	34.9	8.7	12.7	63.5	38.1
(80)	80	62.5	50	10	19	50	40
56	88.9	61.9	38.1	8.7	15.9	69.9	47.6
(90S)	90	70	50	10	24	56	50
143T	88.9	69.8	50.8	8.7	22.2	57.2	57.2
(90L)	90	70	62.5	10	24	56	50
145T	88.9	69.8	63.5	8.7	22.2	57.2	57.2
(100L) †	100	80	70	12	28	63	60
(112S)	112	95	57	12	28	70	60
182T	114.3	95.2	57.2	10.7	28	70	69.9
(112M)	112	95	70	12	28	70	60
184T	114.3	95.2	68.2	10.7	28	70	69.9

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(132S)	132	108	70	12	38	89	80
213T	133.4	108	69.8	10.7	34.9	89	85.7
(132M)	132	108	89	12	38	89	80
215T	133.4	108	88.8	10.7	34.9	89	85.7
(160M)*	160	127	105	15	42	108	110
254T	158.8	127	104.8	13.5	41.3	108	101.6
(160L)*	160	127	127	15	42	108	110
256T	158.8	127	127	13.5	41.3	108	101.6
(180M)*	180	139.5	120.5	15	48	121	110
284T	177.8	139.8	120.2	13.5	47.6	121	117.5
(180L)*	180	139.5	139.5	15	48	121	110
286T	177.8	139.8	139.8	13.5	47.6	121	117.5
(200M)*	180	159	133.5	19	55	133	110
324T	203.3	158.8	133.4	16.7	54	133	133.4
(200L)*	200	159	152.5	19	55	133	110
326T	203.2	158.8	152.4	16.7	54	133	133.4

* Shaft dimensions of these motors may vary among manufacturers. † No NEMA equal.

2015 Energy Conservation Standards For Small Electric Motors

2015 SMALL MOTOR LEGISLATION

Energy efficiency is becoming more important for electric motors used in industrial, commercial, and residential applications. The U.S. Department of Energy (DOE) has established new standards for certain types of small electric motors that will become effective on March 9th, 2015 (March 9th, 2017 for motors that require listing or certification). The motors governed under the small motor ruling include NEMA General Purpose two digit frames 42, 48, and 56, open construction, continuous duty, 1/4 horsepower up through 3 horsepower in 3-phase, capacitor start induction run and capacitor start capacitor run designs. The small motor rule also includes metric designs built in IEC frames 63, 71, or 80, and kilowatt ranges from .18 kW to 2.2 kW. See tables for standard efficiency levels.

Table I.1—Standard Levels for 3-Phase Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	67.5	69.5	65.6
0.33/0.25	71.4	73.4	69.5
0.5/0.37	75.3	78.2	73.4
0.75/0.55	81.7	81.1	76.8
1/0.75	82.5	83.5	77.0
1.5/1.1	83.8	86.5	84.0
2/1.5	—	86.5	85.5
3/2.2	—	86.9	85.5

Table I.2—Standard Levels for Capacitor-Start Induction-Run and Capacitor-Start Capacitor-Run Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	62.2	68.5	66.6
0.33/0.25	66.6	72.4	70.5
0.5/0.37	76.2	76.2	72.4
0.75/0.55	80.2	81.8	76.2
1/0.75	81.1	82.6	80.4
1.5/1.1	—	83.8	81.5
2/1.5	—	84.5	82.9
3/2.2	—	—	84.1

3-Phase Motor 2016 Final IHP (Integral HP) Rule

- Replaces Energy Independence and Security Act of 2007
- Takes effect June 1, 2016
- Almost all motors will be covered at Premium Efficiency levels NEMA MG1, Table 12-12 or Part 20, Table B (IE3)
- EISA 2007 Subtype 1 and II, 1-200 HP must now meet Table 12-12-NEMA Premium Efficient
- 56 Frame 3-phase Enclosed motors must now meet Table 12-12-NEMA Premium Efficient
- Custom 3-Phase motors must now meet Table 12-12-NEMA Premium Efficient

3-PHASE MOTORS COVERED UNDER IHP FINAL RULE

- Is a single speed induction motor
- Is rated for continuous duty (MG 1) operation or for duty type S1 (IEC)
- Contains a squirrel-cage (MG 1) or cage (IEC) rotor
- Operated on polyphase alternating current (AC) 60Hz sinusoidal line power
- Has 2-, 4-, 6-, or 8-pole configuration
- Is rated 600V or less
- Have a 3 or 4 digit NEMA frame size (or IEC metric equivalent), including: designs between 2 consecutive NEMA frame sizes (or IEC metric equivalent), or enclosed 56 NEMA frame size (or IEC metric equivalent)
- 2-digit frame size TENV and TEFC motors that are 1.0 HP and larger must also be in compliance.
- Between 1 and 500 HP (or kilowatt equivalent)
- Meets all performance requirements of NEMA design A, B, or C or IEC design N or H electric motor

NEMA Premium Nominal Full-Load Efficiency

Motor HP	Open Motors RPM			Enclosed Motors RPM		
	1200	1800	3600	1200	1800	3600
1	82.5	85.5	77.0	82.5	85.5	77.0
1½	86.5	86.5	84.0	87.5	86.5	84.0
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7½	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4
250	95.8	95.8	95.0	95.8	96.2	95.8
300	95.8	95.8	95.4	95.8	96.2	95.8
350	95.8	95.8	95.4	95.8	96.2	95.8
400	—	95.8	95.8	95.8	96.2	95.8
450	—	96.2	96.2	95.8	96.2	95.8
500	—	96.2	96.2	95.8	96.2	95.8

Motor Compliance Certification (CC) Numbers

The Department of Energy (DOE) has mandated energy efficiency levels for certain classes of 1- and 3-phase electric motors. For certain categories within these groups of energy efficient motors, a Compliance Certification (CC) number that is unique to a specific motor manufacturer, assigned by the DOE, must appear on the motor's nameplate. The CC number is listed in the Tech Spec section on Grainger.com® for affected motors.

Motor Compliance Certification (CC) Numbers

Dayton Brand	National Brand	
CC005A	CC001A	CC029A
CC029A	CC003A	—
CC030A	CC004A	—
CC060A	CC005A	—

Hazardous Location Motor Temperature Codes

In addition to identifying the Class, Group, and Division of the hazardous location motor, you must also obtain the temperature code or maximum surface temperature for the motor. This code or temperature indicates the maximum surface temperature for all conditions including burnout, overload, single phasing, and locked rotor. The maximum surface temperature or T-Code must be identified on the nameplate.

TEMPERATURE IDENTIFICATION NUMBERS

"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)		"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)	
T1	450°C	842°F	T3A	180°C	356°F
T2	300°C	572°F	T3B	165°C	329°F
T2A	280°C	536°F	T3C	160°C	320°F
T2B	260°C	500°F	T4	135°C	275°F
T2C	230°C	446°F	T4A	120°C	248°F
T2D	215°C	419°F	T5	100°C	212°F
T3	200°C	392°F	T6	85°C	185°F

National Electrical Code Explosive Atmosphere Classifications

Certain locations are hazardous because the atmosphere may contain gas, vapor, or dust in explosive quantities. The National Electrical Code (NEC) divides these locations into Classes and Groups according to the type of explosive agent which may be present. Listed are some of the agents in each classification. For a complete list, see NFPA (National Fire Protection Association) publication 497M.

Underwriters Laboratories tests motors and other devices for safety in explosive atmospheres, and publishes a list of those products that meet its standards for each Class and Group.

Use of UL Listed devices does not necessarily make an installation conform to the NEC or local codes. Consult Chapter 5 of the NEC, local building codes, OSHA requirements, and insurance inspectors for detailed data as to proper procedures. This catalog does not contain any motors designed for Class I, Groups A or B atmospheres.

CLASS I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl chloride, xylene

CLASS II

Group E: Aluminum, magnesium, and other metal dusts with similar characteristics

Group F: Carbon black, coke, or coal dust

Group G: Flour, starch, or grain dust

CLASS III

Easily ignitable fibers, such as rayon, cotton, sisal, hemp, cocoa fiber, oakum, excelsior, and other materials of similar nature

Motor Terminology

AC—Alternating Currents

Amb. (Ambient)—The temp. of the space around the motor.

Auto—Automatic

Bearings—Basic types:

- **Sleeve—**Preferred where low noise level is important, as on fan and blower motors. Unless otherwise stated, sleeve bearing motors listed herein can be mounted in any position, including shaft-up or shaft-down (all-position mounting).
- **Ball—**Used where higher load capacity is required or periodic lubrication is impractical. The 2 methods used to keep out dirt are: shields and seals.

CSA—Canadian Standards Association

DC—Direct Current

Enclosure—The motor's housing. Types:

- **Open Dripproof (ODP)—**Ventilation openings in endshields and shell placed so drops of liquid falling within 15° from vertical will not affect performance. Usually used indoors, in fairly clean locations.
- **Open Air-Over (OPAO)—**Motors intended for fan and blower service. Must be located in the driven fan blade's air stream to provide motor cooling.
- **Totally Enclosed Air-Over (TEAO)—** Air flow from driven or external device provides cooling air flow over the motor, but not airtight or waterproof.
- **Totally Enclosed Fan-Cooled (TEFC)—** Includes an external fan in a protective shroud, to blow cooling air over the motor, but not airtight or waterproof.
- **Totally Enclosed Nonventilated (TENV)—**Not equipped with an external cooling fan, but not airtight or waterproof. Depends on convection air for cooling.

Energy Efficient—Any motor that has improved efficiency performance above a standard design as determined by the manufacturer, i.e., Epact levels in compliance with NEMA Table 12-11, but does not qualify for a NEMA Premium designation and or a small motor energy legislation model because the motor cannot meet the Federal and/or NEMA nominal efficiency guidelines, will be categorized as "Energy Efficient."

FLA (Full Load Amps)—Line current (amperage shown on motor nameplate) drawn by a motor when operating at rated HP and voltage.

Hz (Hertz)—Frequency, in cycles per sec., of AC power; usually 60 Hz in USA, 50 Hz overseas.

HP (Horsepower)—The amount of work a motor can do. 1 HP equals 746 watts.

Imp.—Impedance

Ins. (Insulation)—In motors, usually classified by max. allowable operating temp.: Class A-105°C (221°F), Class B-130°C (266°F), Class F-155°C (311°F), Class H-180°C (356°F).

Man.—Manual

Max.—Maximum

MFD—Microfarad

µF—Microfarad

Min.—Minimum

Mtg. (Mounting)—Basic types

- **Bolted—**Frame is attached to motor with removable bolts.
- **C-Face or Flange—**Shaft end has a flat mounting surface, machined to standard dimensions, with holes to allow easy, secure mounting to driven equipment. Commonly used on jet pumps, oil burners, and gear reducers.
- **Cradle/Resilient**—Motor shell is isolated from base by vibration-absorbing material, such as rubber rings on the endshields, to reduce transmission of vibration to the driven equipment.
- **Rigid—**Motor solidly fastened to equipment through metal base that is welded to, or cast into, motor shell.
- **Stud—**Motor has bolts extending from front or rear, by which it is mounted. Often used on small, direct drive fans and blowers.
- **Yoke—**Tabs or ears are welded to motor shell to allow bolting of motor to a fan column/pedestal or bracket.

Nameplate RPM—The nominal speed at which an induction motor operates under rated load (HP) conditions.

NEMA—National Electrical Manufacturer's Association

NEMA Premium Efficient—Any 3-phase motor that meets NEMA MG1 Table 12-12 Nominal Premium Efficiency Levels for a particular HP, rpm, and enclosure type rating and is required to display a CC Number on the nameplate, as registered with the Department of Energy, or single-phase motor that meet EISA standards, i.e. small motor rule, that are not required to display a CC Number, but do have the NEMA logo on the nameplate will be categorized as "NEMA Premium Efficient".

Nom.—Nominal

OC—On Center

PE—Pump end

Premium Efficient—For 2-digit open enclosure, single and 3-phase motors that meet EISA standards, i.e. small motor rule, that are not required to display a CC Number on the nameplate, will be categorized as "Premium Efficient".

Prot.—Protection

PSC—Permanent Split Capacitor

Resil.—Resilient

Rev.—Reversible

Rotation—Basic types:

- **CCW—**Counterclockwise
- **CW—**Clockwise
- **CW/CCW—**Reversible
- **CWSE—**Clockwise Facing Shaft End
- **CWLE—**Clockwise Facing Lead End
- **CCWSE—**Counterclockwise Facing Shaft End
- **CCWLE—**Counterclockwise Facing Lead End

RPM—Revolutions per Minute

SF (Service Factor)—A measure of the reserve margin built into a motor. Motors rated over 1.0 SF have more than normal margin, and are used where unusual conditions such as occasional high or low voltage, momentary overloads, etc. are likely to occur.

Severe Duty—A totally enclosed motor with extra protection (shaft slinger, gasketed terminal box) to resist entry of contaminants. Used in extra dirty, damp or other nonhazardous contaminated environments.

Syn.—Synchronous

Standard Efficient—Any motor not required to meet any specific called out nominal efficiency specifications including federal guidelines will be categorized as "Standard Efficient".

Temperature Rise—The amount by which a motor, operating under rated conditions, is hotter than its surroundings.

Thermal Protection—A temp. sensing device built into the motor that shuts off the motor if the temp. becomes excessive due to failure-to-start or overloading. Basic types:

- **Auto (Automatic-Reset)—**After motor cools, thermal protector automatically connects motor to power.
- **WARNING: Should not be used where unexpected restarting would be hazardous.**
- **Imp (Impedance Protected)—**Motor is designed so that it will not burn out in less than 15 days under locked rotor (stalled) conditions, in accordance with UL standard No. 519.
- **Man. (Manual-Reset)—**An external button must be pushed to reconnect power to motor. Preferred where unexpected restarting would be hazardous, as on saws, conveyors, compressors, etc.
- **T-Stat (Thermostat)—**A temperature-sensing device installed inside the motor with separate leads brought out for connection into motor starter coil (control) circuit. Under failure-to-start or overload conditions, thermostat contacts will open. Thermostat contacts will reclose automatically when motor cools.

Torque—Twist, or turning ability, as applied to a shaft. Measured in foot-pounds (ft.-lb.), inch-pounds (in.-lb.), ounce-feet (oz.-ft.) or ounce-inches (oz.-in.).

- **Breakdown—**The maximum torque a motor will produce while running, without an abrupt drop in speed and power.
- **Locked Rotor or Starting—**The maximum torque produced at initial start.

Insulation Classes and Temperature Rise

Heat is a byproduct of the operation of a motor. A motor's internal operating temp. depends on its design. Insulation classes are designated to meet the requirements of the motor design. The insulation class is determined by the ability of each insulation system to handle a specified amount of heat:

Class A: 105°C (221°F)
Class B: 130°C (266°F)
Class F: 155°C (311°F)
Class H: 180°C (356°F)

A newer design of general purpose 3-phase motors has been introduced to promote longer service life. These motors feature a higher insulation class (primarily Class F) with a lower temp. rise (primarily Class B rise). This allows for about 25°C reserve thermal capacity in the motor. The reserve thermal capacity is what helps maintain the integrity of the insulation and lengthen motor life.

Dayton

Split-Phase Open Dripproof Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fans, blowers, pumps, printing equipment, and other business machines. NEMA 42 frame is supplied with a relay instead of a centrifugal switch; relay mounting clip is included. UL Recognized and CSA Certified.



Rigid-Base Mount
No. 5K279



Cradle-Base Mount
No. 6XH57

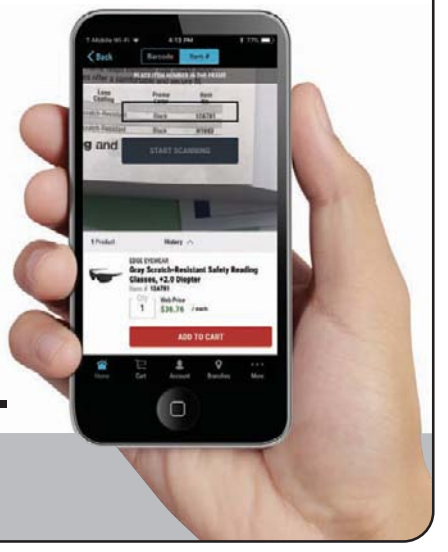
HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Mounting	Shaft Dia.	Shaft Length	Overall Length	Item No.
1 Speed													
1/12	1725	42	None	115	3.7	1.40	F	32.8%	Cradle Base	3/8"	1 1/4"	6 7/8"	**6K402**
1/6	1725	48Z	None	115	4.2	1.35	B	43.4%	Cradle Base	1/2"	1 7/8"	9 5/16"	**6XH64** #
	1140	48Z	None	115	4.5	1.35	B	50.0%	Cradle Base	1/2"	1 7/8"	10 5/16"	**6XH78** ‡#
	1140	56Z	None	115	4.5	1.35	B	50.0%	Cradle Base	1/2"	1 7/8"	10 5/16"	**5K559** ††
	850	56	None	115	7.0	1.35	F	40.3%	Cradle Base	5/8"	1 7/8"	11 13/16"	**6XH80** **
1/4	1725/1425	48Z	Auto	110/220	4.2/2.1	1.35	B	59.5%	Rigid Base	1/2"	1 7/8"	9 1/2"	**6XJ46** *
	1725	48Z	None	115	5.3	1.35	B	52.0%	Cradle Base	1/2"	1 7/8"	9 13/16"	**6XH65** ‡#
	1725	48Z	None	115	5.3	1.35	B	52.0%	Rigid Base	1/2"	2 1/4"	9 3/4"	**6XJ35**
	1725	48Z	None	230	2.5	1.35	B	53.7%	Cradle Base	1/2"	1 7/8"	9 13/16"	**6XH61**
	1725	48Z	Auto	115	5.3	1.35	B	52.0%	Cradle Base	1/2"	1 7/8"	9 13/16"	**6K718** ‡
	1725	56Z	None	115	5.3	1.35	B	52.0%	Cradle Base	1/2"	1 7/8"	9 13/16"	**5K280** #††
	1725	56Z	None	115	5.9	1.35	B	52.0%	Rigid Base	1/2"	1 7/8"	9 1/2"	**5K279**
	1140	56	None	115	5.5	1.35	B	53.6%	Cradle Base	5/8"	1 7/8"	10 13/16"	**6XJ57** **
	1140	56	None	208-230	2.7-2.9	1.35	B	58.7%	Cradle Base	5/8"	1 7/8"	10 13/16"	**24C177**
	850	56	None	115	6.9	1.25	B	52.0%	Cradle Base	5/8"	1 7/8"	11 13/16"	**6XH73** **
1/3	3450	48Z	None	115	5.4	1.35	B	53.3%	Cradle Base	1/2"	1 7/8"	10 5/16"	**5K586** ‡
	1725	48Z	None	115	7.0	1.35	B	54.3%	Cradle Base	1/2"	1 7/8"	9 13/16"	**5K917**
	1725	48Z	None	115	7.0	1.35	B	54.3%	Rigid Base	1/2"	2 1/4"	9 3/4"	**6XH45**
	1725	48Z	None	230	3.5	1.35	B	54.9%	Cradle Base	1/2"	1 7/8"	9 13/16"	**6XH71** ‡
	1725	48Z	Auto	115	7.0	1.35	B	54.3%	Cradle Base	1/2"	1 7/8"	9 13/16"	**5K601** ‡
	1725	48Z	Auto	230	3.5	1.35	B	54.9%	Cradle Base	1/2"	1 7/8"	9 13/16"	**5K602** ‡
	1725	56Z	None	115	7.0	1.35	B	54.3%	Cradle Base	1/2"	1 7/8"	9 13/16"	**5K534** ††
	1725	56Z	None	115	7.0	1.35	B	54.3%	Rigid Base	1/2"	1 7/8"	9 1/2"	**5K281** ††
	1725	56Z	Auto	115	7.0	1.35	B	54.3%	Rigid Base	1/2"	1 7/8"	9 1/2"	**5K412**
	1140	56	None	115/230	6.7/3.4	1.35	B	60.3%	Cradle Base	5/8"	1 7/8"	10 13/16"	**6XH74** **
1/2	3450	48Z	None	115	7.8	1.25	B	57.5%	Cradle Base	1/2"	1 7/8"	10 3/8"	**6K844** ‡
	1725	48Z	None	115	8.9	1.25	F	54.5%	Cradle Base	1/2"	1 7/8"	10 5/16"	**6K764** ‡
	1725	48Z	None	115	8.9	1.25	F	58.8%	Rigid Base	1/2"	1 7/8"	9 15/16"	**5K984**
	1725	56	None	115	8.9	1.25	F	58.8%	Cradle Base	5/8"	1 7/8"	10 5/16"	**5K283**
	1725	56	None	230	4.6	1.25	B	59.7%	Cradle Base	5/8"	1 7/8"	10 13/16"	**5K288**
	1725	56	Manual	115	8.9	1.25	F	58.8%	Rigid Base	5/8"	1 7/8"	9 15/16"	**5K597**
	1725	56Z	None	115	8.9	1.25	F	54.5%	Cradle Base	1/2"	1 7/8"	10 5/16"	**4K913**
	1725	56Z	None	115	8.9	1.25	F	58.8%	Rigid Base	5/8"	2 1/4"	10 5/16"	**6XH82**
3/4	1725	56	None	115	11.3	1.25	B	63.6%	Cradle Base	5/8"	1 7/8"	11 5/16"	**6XJ13**
	1725	56Z	None	115	11.3	1.25	B	63.6%	Rigid Base	5/8"	2 1/4"	11 1/4"	**6XJ24**
2 Speed													
1/6, 1/18	1725/1140	48Z	None	115	4.0/2.4	1.35	B	46.8%	Cradle Base	1/2"	1 7/8"	9 13/16"	**6XH57** †#
1/4, 1/8	1725/1140	48Z	None	115	4.6/4.3	1.35	B	52.5%	Cradle Base	1/2"	1 7/8"	10 5/16"	**5K671** †‡
	1725/1140	56Z	None	115	4.9/3.3	1.35	B	53.0%	Cradle Base	1/2"	1 7/8"	10 5/16"	**5K574** † ††
1/3, 1/9	1725/1140	48Z	None	115	5.9/3.4	1.35	B	56.7%	Cradle Base	1/2"	1 7/8"	10 13/16"	**6XH75** †‡#
	1725/1140	56	None	115	6.1/3.5	1.35	B	59.0%	Cradle Base	5/8"	1 7/8"	10 5/16"	**6XH76** †**
1/3, 1/6	1725/1140	56Z	None	115	6.1/3.8	1.35	B	59.0%	Cradle Base	1/2"	1 7/8"	10 5/16"	**5K554** † ††
1/2, 1/6	1725/1140	56	None	115	7.5/4.9	1.25	B	63.9%	Cradle Base	5/8"	1 7/8"	10 13/16"	**6XH67** †**
1/2, 1/4	1725/1140	56	None	115	7.5/5.4	1.25	B	63.9%	Cradle Base	5/8"	1 7/8"	10 13/16"	**5K423** †
	1725/1140	56	None	230	3.8/2.8	1.25	B	63.7%	Cradle Base	5/8"	1 7/8"	10 13/16"	**5K556**

** 60/50 Hz. † 2-speed 115V switch No. 1DGZ9 available, see page 2929. ‡ Cradle base is notched to fit 48 and 56 frame mount.*
*# Cradle with studs in a 3 5/8" square pattern. ** Cradle with studs in a 4 5/16" square pattern. †† Supplied with 5/8"-dia. shaft bushing.*

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

- Scan the Item Number
- See Your Price
- Place Your Order. Done.

Scan. Order. Done.



Dayton

Split-Phase Totally Enclosed Fan-Cooled Motors

- Rotation: CW/CCW
- Thermal protection: none
- Service factor: 1.00
- Bearings: ball
- Max. ambient temp.: 40°C

Totally enclosed motors are for use in dusty, dirty, nonhazardous applications including fans, blowers, pumps, and other business machines. Feature large conduit box for easy wiring. UL Recognized and CSA Certified.



No. 6XJ01



No. 6XJ06

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ins. Class	Nom. Efficiency	Mounting	Shaft Dia.	Shaft Length	Overall Length	Item No.	
1 Speed												
⅛	1140	48Z	115	3.5	B	50.0%	Cradle Base	½"	1⅞"	11 1⁄16"	**6XJ01**	†
⅙	1725	48Z	115	3.2	B	54.1%	Cradle Base	½"	1⅞"	11 1⁄16"	**6XJ03**	
	1725	48Z	115	3.2	B	54.1%	Rigid Base	½"	1⅞"	11"	**6XJ06**	
	1140	48Z	115	4.4	B	50.8%	Rigid Base	½"	1⅞"	11 9⁄16"	**6XH99**	
	1140	48Z	115	4.4	B	50.8%	Cradle Base	½"	1⅞"	11 9⁄16"	**6XJ04**	†
¼	1725	48Z	115	4.9	B	55.2%	Cradle Base	½"	1⅞"	11"	**6K517**	†
	1725	48Z	115	4.9	B	55.2%	Rigid Base	½"	1⅞"	10⅝"	**6XJ07**	
	1140	56	115/230	5.8/2.9	B	54.1%	Cradle Base	⅝"	1⅞"	12"	**6XJ14**	†
⅓	1725	48Z	115	5.9	B	61.4%	Cradle Base	½"	1⅞"	11"	**6K572**	
	1725	56	115	5.9	B	63.9%	Cradle Base	⅝"	1⅞"	11"	**6XJ10**	‡
	1140	56	115	6.4	B	59.1%	Cradle Base	⅝"	1⅞"	12 13⁄16"	**6XJ47**	‡
½	1725	56	115	8.0	F	63.9%	Rigid Base	⅝"	1⅞"	11½"	**5K596**	
	1725	56	115	8.0	F	63.9%	Cradle Base	⅝"	1⅞"	11½"	**6XJ11**	‡
	1140	56	115	8.7	B	63.4%	Cradle Base	⅝"	1⅞"	13 5⁄16"	**6XJ56**	‡
2 Speed												
⅓, 1⁄10	1725/1140	56	115	5.5/3.0	B	62.5%	Cradle Base	⅝"	1⅞"	12 5⁄16"	**6XJ15**	*‡
½, ¼	1725/1140	56	115	7.2/5.0	B	64.0%	Rigid Base	⅝"	1⅞"	11 13⁄16"	**5K618**	*
	1725/1140	56	115	7.2/5.0	B	64.0%	Cradle Base	⅝"	1⅞"	12 13⁄16"	**6XJ58**	*‡

** 2-speed 115V switch No. 1DGZ9 available, see page 2929. †Cradle with studs in a 3⅝" square pattern. ‡ Cradle with studs in a 4 1⁄16" square pattern.*

marathon Motors

Capacitor-Start/Run Open Dripproof and Totally Enclosed Fan-Cooled Motors

- Rotation: CW/CCW
- Insulation: Class B
- Max. ambient temp.: 40°C

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fan and blower applications.

Totally enclosed motors are suitable for the above and also dusty, dirty, and nonhazardous environments. UL Recognized and CSA Certified.



No. 1K101



No. 2K599

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Mounting	Overall Length	Mfr. Stock No.	Item No.	
Open Dripproof												
⅓	1725	56	Auto	120/240	4.0-3.8/2.0-1.9	1.35	70.2%	Cradle Base	10¾"	E254	**1K101**	*
½	1725	56	Auto	120/240	5.8-5.6/2.9-2.8	1.25	74.0%	Cradle Base	10¾"	E263	**1K103**	*
¾	1725	56	Auto	120/240	9.0-8.8/4.5-4.4	1.00	75.2%	Cradle Base	11⅜"	E272	**1K105**	*
1	1725	56H	Auto	120/240	11.8-11.4/5.9-5.7	1.15	77.4%	Cradle Base	12 1⁄16"	E281	**1K107**	*
Totally Enclosed Fan-Cooled												
½	1725	56	None	120/240	5.8-5.6/2.9-2.8	1.25	74.0%	Rigid Base	11 13⁄16"	E267	**1K109**	*
¾	1725	56	None	120/240	9.0-8.8/4.5-4.4	1.25	75.2%	Rigid Base	12 7⁄16"	EG276	**1K110**	*
	1140	56	None	115/230	10.6/5.3	1.00	67.3%	Rigid Base	13 13⁄16"	C271	**2K599**	
1	1725	56	None	120/240	11.8-11.4/5.9-5.7	1.15	77.4%	Rigid Base	12 15⁄16"	E285	**1K111**	*

** 60/50 Hz.*

Minimum Wire Sizes (AWG) for 1-Phase Motor Circuits

To connect motor for proper voltage and rotation, refer to the connection diagram on the nameplate or inside the terminal/conduit box.

Note: NEC Article 310-5 states that 14 AWG is the minimum conductor size for general wiring at 115 to 440VAC.

Motor HP	25 ft.		50 ft.		100 ft.		150 ft.		200 ft.	
	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V
⅛	14 (18)*	14 (18)*	14	14 (18)*	12	14 (18)*	10	14 (16)*	8	14
⅙	14 (16)*	14 (18)*	12	14 (18)*	10	14 (16)*	6	14	6	12
¼	14	14 (18)*	10	14 (16)*	8	14	6	12	4	10
⅓	14	14 (18)*	10	14 (16)*	8	14	6	12	4	10
½	12	14 (18)*	8	14	6	12	4	10	3	8
¾	10	14 (16)*	6	12	4	10	2	8	1	6
1	10	14 (16)*	6	12	4	10	2	8	1	6
1½	8	14	6	12	3	8	1	6	1/0	6
2	8	14	4	10	2	8	1/0	6	2/0	4
3	6	12	3	8	1/0	6	2/0	4	4/0	3

** Smaller gauge (in parentheses) meets electrical requirements.*



No. 30PT45



No. 5FTR9



No. 5K410

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Item No.	
Open Dripproof, 1-Speed													
¼	3450	48Z	Auto	115/230	2.7/1.3	1.35	B	66.6%	½"	1⅞"	10⁵⁄₁₆"	**30PT45**	‡
	1725	48Z	Auto	115/230	3.1/1.5	1.35	B	68.5%	½"	1⅞"	10⁵⁄₁₆"	**30PT46**	‡
	1725	48Z	None	115/230	3.1/1.5	1.35	B	68.5%	½"	1⅞"	10⁵⁄₁₆"	**30PT49**	‡
	1725	56	Auto	115/230	3.1/1.5	1.35	B	68.5%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT47**	‡
	1725	56	None	115/230	3.1/1.5	1.35	B	68.5%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT48**	‡
	1140	56	Auto	115/230	3.7/1.9	1.35	B	62.2%	⅝"	1⅞"	10¹³⁄₁₆"	**30PT50**	‡
	1140	56	None	115/230	3.7/1.9	1.35	B	62.2%	⅝"	1⅞"	10¹³⁄₁₆"	**30PT51**	‡
⅓	3450	48Z	Auto	115/230	3.7/1.8	1.35	B	70.5%	½"	1⅞"	10⁵⁄₁₆"	**30PT52**	‡
	1725	48Z	Auto	115/230	3.8/1.9	1.35	B	72.4%	½"	1⅞"	10⁵⁄₁₆"	**30PT55**	‡
	1725	48Z	None	115/230	3.8/1.9	1.35	B	72.4%	½"	1⅞"	10⁵⁄₁₆"	**30PT56**	‡
	1725	56	None	115/230	3.8/1.9	1.35	B	72.4%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT53**	‡
	1725	56	Auto	115/230	3.9/1.9	1.35	B	72.4%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT54**	‡
	1725	56	Manual	115/230	3.9/1.9	1.35	B	72.4%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT57**	‡
	1140	56	None	115/230	4.4/2.3	1.35	B	66.6%	⅝"	1⅞"	11¼"	**30PT58**	‡
	1140	56	Auto	115/230	4.4/2.3	1.35	B	66.6%	⅝"	1⅞"	11⁵⁄₁₆"	**30PT59**	‡
½	3450	48Z	None	115/230	5.0/2.5	1.25	B	72.4%	½"	1⅞"	10⁵⁄₁₆"	**30PT61**	‡
	3450	56	Auto	115/230	5.0/2.5	1.25	B	72.4%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT60**	‡
	1725	48Z	None	115/230	5.0/2.6	1.25	B	76.2%	½"	1⅞"	10⁵⁄₁₆"	**30PT64**	‡
	1725	48Z	Auto	115/230	5.0/2.6	1.25	B	76.2%	½"	1⅞"	10⁵⁄₁₆"	**30PT65**	‡
	1725	56	Auto	115/230	5.0/2.6	1.25	B	76.2%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT62**	‡
	1725	56	None	115/230	5.0/2.6	1.25	B	76.2%	⅝"	1⅞"	10⁵⁄₁₆"	**30PT63**	‡
	1725	56H	Auto	115/230	5.0/2.6	1.25	B	76.2%	⅝"	1⅞"	11⁵⁄₁₆"	**30PT66**	‡
	1140	56	None	115/230	4.8/2.4	1.25	B	76.2%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT67**	‡
	1140	56	Auto	115/230	4.8/2.4	1.25	B	76.2%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT68**	‡
¾	3450	56	Auto	115/230	7.0/3.6	1.25	B	76.2%	⅝"	1⅞"	11 ¹³⁄₁₆"	**30PT89**	‡
	3450	56	None	115/230	7.0/3.6	1.25	B	76.2%	⅝"	1⅞"	11 ¹³⁄₁₆"	**30PT90**	‡
	1725	56	Auto	115/230	7.0/3.5	1.25	B	81.8%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT69**	‡
	1725	56	None	115/230	7.0/3.5	1.25	B	81.8%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT70**	‡
	1725	56H	Auto	115/230	7.0/3.5	1.25	B	81.8%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT71**	‡
	1140	56	None	115/230	7.4/3.7	1.15	B	80.2%	⅝"	1⅞"	13¹³⁄₁₆"	**30PT72**	†‡
	1140	56	Auto	115/230	6.6/3.4	1.15	B	80.2%	⅝"	1⅞"	13¹³⁄₁₆"	**30PT73**	‡
1	3450	56	Auto	115/230	9.3/4.3	1.25	B	80.4%	⅝"	1⅞"	13⁵⁄₁₆"	**30PT74**	‡
	3450	56	None	115/230	9.3/4.3	1.25	B	80.4%	⅝"	1⅞"	13¹³⁄₁₆"	**30PT75**	‡
	1725	56	None	115/230	8.8/4.4	1.15	B	82.6%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT76**	‡
	1725	56	Auto	115/230	8.8/4.4	1.15	B	82.6%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT77**	‡
	1725	56H	Auto	115/230	8.8/4.4	1.15	B	82.6%	⅝"	1⅞"	12⁵⁄₁₆"	**30PT78**	‡
	1140	56	Auto	115/230	8.9/4.6	1.15	B	81.1%	⅝"	1⅞"	13⁵⁄₁₆"	**30PT79**	†‡
	1140	56	None	115/230	8.9/4.6	1.15	B	81.1%	⅝"	1⅞"	13⁵⁄₁₆"	**30PT91**	†‡
1½	3450	56	Auto	115/230	13.3/6.7	1.15	B	81.5%	⅝"	1⅞"	12¹³⁄₁₆"	**30PT80**	‡
	3450	56	None	115/230	13.3/6.7	1.15	B	81.5%	⅝"	1⅞"	12¹³⁄₁₆"	**30PT88**	‡
	1725	56	None	115/230	13.4/6.7	1.15	B	83.8%	⅝"	1⅞"	12¹³⁄₁₆"	**30PT81**	‡
2	3450	56H	Auto	115/230	17.3/8.7	1.15	B	82.9%	⅝"	1⅞"	13¹³⁄₁₆"	**30PT84**	‡
	3450	56H	None	115/230	17.3/8.7	1.15	B	82.9%	⅝"	1⅞"	13¹³⁄₁₆"	**30PT85**	‡
	1725	56H	Auto	115/230	17.0/8.5	1.15	B	84.5%	⅝"	1⅞"	13⁹⁄₁₆"	**30PT86**	‡
	1725	56H	None	115/230	17.0/8.5	1.15	B	84.5%	⅝"	1⅞"	13⁹⁄₁₆"	**30PT87**	‡
Open Dripproof, 2-Speed													
½, ⅓	1725/1140	56	None	115	7.1/3.7	1.25	B	63.6%	⅝"	1⅞"	11¼"	**5FTR9**	*
	1725/1140	56	Auto	115	7.1/3.7	1.25	B	63.7%	⅝"	1⅞"	11¼"	**5FTT0**	*
¾, ¼	1725/1140	56	None	115	7.9/4.9	1.25	B	73.3%	⅝"	1⅞"	10¹³⁄₁₆"	**6XJ26**	†
¾, ⅓	1725/1140	56	Auto	115	9.8/5.2	1.25	B	69.7%	⅝"	1⅞"	11¹³⁄₁₆"	**5FTT1**	*
1, ⅓	1725/1140	56	None	115	10.1/7.1	1.15	B	74.4%	⅝"	1⅞"	11¹³⁄₁₆"	**6XJ34**	†
	1725/1140	56	None	208-230	5.2-5.0/3.5	1.15	B	76.3%	⅝"	1⅞"	11¹³⁄₁₆"	**6XJ36**	†
	1725/1140	56	Auto	115	11.9/6.0	1.15	B	69.1%	⅝"	1⅞"	11¹³⁄₁₆"	**5FTT2**	*
Totally Enclosed Fan-Cooled, 1-Speed													
¼	3450	48Z	Auto	115/230	5.2/2.6	1.00	B	47.1%	½"	1⅞"	12"	**5PHA0**	*
	3450	56	Auto	115/230	5.2/2.6	1.00	B	47.1%	⅝"	1⅞"	12"	**5PHA1**	*
	1725	48Z	None	115/230	5.3/2.7	1.00	B	54.3%	½"	1⅞"	11½"	**6XJ08**	*
	1725	56	Auto	115/230	5.3/2.7	1.00	B	54.3%	⅝"	1⅞"	11½"	**5K410**	*
⅓	3450	56	Auto	115/230	5.7/2.9	1.00	B	52.3%	⅝"	1⅞"	12"	**5PHA3**	*
	1725	56	Auto	115/230	5.8/2.9	1.00	B	54.3%	⅝"	1⅞"	11½"	**5K411**	*
	1140	56	Auto	115/230	6.3/3.2	1.00	B	57.6%	⅝"	1⅞"	12⁵⁄₁₆"	**5PHA4**	*
½	3450	56	Auto	115/230	8.7/4.4	1.00	B	59.3%	⅝"	1⅞"	11¹³⁄₁₆"	**5PHA5**	*
	1725	56	Auto	115/230	10.1/5.1	1.00	B	60.3%	⅝"	1⅞"	12⁵⁄₁₆"	**6K477**	*
	1140	56	Auto	115/230	8.5/4.2	1.00	B	59.0%	⅝"	1⅞"	13⁵⁄₁₆"	**5PHA6**	*
¾	3450	56	Auto	115/230	10.1/5.1	1.00	B	65.4%	⅝"	1⅞"	12¹³⁄₁₆"	**5PHA7**	*
	1725	56	Auto	115/230	12.2/6.1	1.00	B	66.8%	⅝"	1⅞"	12⅞"	**6K478**	*
	1140	56H	Auto	115/230	10.4/5.2	1.00	B	73.7%	⅝"	1⅞"	14¼"	**5PHA8**	*
1	3450	56	Auto	115/230	14.5/7.3	1.00	B	72.0%	⅝"	1⅞"	13⁵⁄₁₆"	**5PHA9**	*
	1725	56	Auto	115/230	13.1/6.6	1.00	B	72.3%	⅝"	1⅞"	12¹³⁄₁₆"	**6K810**	*
	1140	56H	Auto	115/230	12.1/6.1	1.00	B	75.7%	⅝"	1⅞"	14¾"	**5PHC0**	

**** Capacitor-start. † Cradle with studs in a 4³⁄₁₆" square pattern. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.***

Dayton

2015 SMALL MOTOR LEGISLATION

Capacitor-Start/Run Open Dripproof and Totally Enclosed Fan-Cooled Cradle-Base Mount Motors

- Rotation: CW/CCW
- Frame material: steel
- Bearings: ball
- Max. ambient temp.: 40°C

Open dripproof motors are for use in clean, dry, and nonhazardous applications including fans, blowers, pumps, printing equipment, and other business machines.

Totally enclosed motors can be used where open dripproof motors are used, and are also suitable for dusty, dirty, and nonhazardous environments. UL Recognized and CSA Certified.

KeepStock
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Overall Length	Item No.	
¼	1725	48	Auto	115/208-230	2.4/1.2-1.2	1.35	B	68.5%	10⅜"	**20CL63**	‡
	1725	56	Auto	115/208-230	2.4/1.2-1.2	1.35	B	68.5%	10¾"	**20VD04**	‡
	1725	56	None	115/208-230	2.4/1.2-1.2	1.35	B	68.5%	10¾"	**20VD11**	‡
	1140	56	None	115/208-230	2.4/1.2-1.2	1.35	B	62.2%	12"	**20VD16**	‡
⅓	3450	48	Auto	115/208-230	3.0/1.6-1.5	1.35	B	70.5%	10⅛"	**20CL57**	‡
	3450	48	None	115/208-230	3.0/1.6-1.5	1.35	B	70.5%	10⅛"	**20CL58**	‡
	1725	48	None	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	10⅝"	**20CL61**	‡
	1725	48	Auto	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	10⅝"	**20CL64**	‡
	1725	56	None	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	11"	**20VD05**	‡
	1725	56	Auto	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	11"	**20VD07**	‡
	1725	56	Manual	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	11"	**20VD09**	‡
	1140	56	None	115/208-230	3.4/1.8-1.7	1.35	B	66.6%	12"	**31TR95**	‡
½	3450	48	Auto	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	10⅝"	**20CL53**	‡
	3450	48	None	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	10⅝"	**20CL54**	‡
	3450	48	Manual	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	10⅝"	**20CL62**	‡
	3450	56	Auto	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	11"	**20VD17**	‡
	3450	56	Manual	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	11"	**20VD18**	‡
	3450	56	None	115/208-230	4.4/2.4-2.2	1.25	B	72.4%	11"	**20VD19**	‡
	1725	48	Auto	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	11⅛"	**20CL56**	‡
	1725	48	None	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	11⅛"	**20CL60**	‡
	1725	56	None	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	11½"	**20VD06**	‡
	1725	56	Auto	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	11½"	**20VD08**	‡
	1725	56	Manual	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	11½"	**20VD10**	‡
	1140	56	None	115/208-230	5.6/3.0-2.8	1.25	B	76.2%	12⅛"	**31TR96**	‡
¾	3450	48	None	115/208-230	7.2/4.0-3.6	1.25	B	76.2%	11⅛"	**20CL55**	‡
	3450	48	Auto	115/208-230	7.2/4.0-3.6	1.25	B	76.2%	11⅛"	**20CL59**	‡
	3450	56	Auto	115/208-230	7.2/4.0-3.6	1.25	B	76.2%	11½"	**20VD15**	‡
	3450	56	None	115/208-230	7.2/4.0-3.6	1.25	B	76.2%	11½"	**20VD20**	‡
	1725	56	None	115/208-230	6.6/3.5-3.3	1.25	B	81.8%	13⅛"	**31TR72**	‡
	1725	56	Auto	115/208-230	6.6/3.5-3.3	1.25	B	81.8%	13⅛"	**31TR73**	‡
	1725	56	Manual	115/208-230	6.6/3.5-3.3	1.25	B	81.8%	13⅛"	**31TR74**	‡
	1140	56H	None	115/208-230	6.7/3.7-3.35	1.15	B	80.2%	13 11⁄16"	**31TT06**	‡
1	3450	56	Auto	115/208-230	8.8/4.9-4.4	1.25	B	80.4%	12⅜"	**31TR94**	‡
	3450	56	None	115/208-230	8.8/4.9-4.4	1.25	B	80.4%	12⅜"	**31TT03**	‡
	3450	56	Manual	115/208-230	8.8/4.9-4.4	1.25	B	80.4%	12⅜"	**31TT04**	‡
	1750	182	None	115/230	14.4/7.2	1.25	F	73.0%	12¾"	**5K480**	*
	1725	143T	None	115/208-230	14.8/7.5-7.3	1.25	B	71.5%	12¼"	**6K825**	*
	1725	56H	None	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	12⅝	**31TR75**	‡
	1725	56HZ	Auto	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	13"	**31TR77**	‡
	1725	56H	Auto	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	13⅛"	**31TR80**	‡
	1725	56HZ	None	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	13¼"	**31TR81**	‡
	1725	56HZ	Manual	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	13"	**31TR86**	‡
	1725	56H	Manual	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	12⅝"	**31TR87**	‡
1½	3450	143T	None	115/208-230	18.6/9.8-9.3	1.15	B	70.0%	12¼"	**6K630**	*
	3450	56H	Manual	115/208-230	13.6/7.0-6.8	1.15	B	81.5%	12 15⁄16"	**31TR97**	‡
	3450	56H	Auto	115/208-230	13.6/7.0-6.8	1.15	B	81.5%	12 15⁄16"	**31TR98**	‡
	3450	56H	None	115/208-230	13.6/7.0-6.8	1.15	B	81.5%	12 15⁄16"	**31TR99**	‡
	1750	184	None	115/230	22.0/11.0	1.15	F	74.3%	13¼"	**5K481**	*
	1725	145T	None	115/208-230	19.2/10.0-9.6	1.15	B	74.0%	13¼"	**6K826**	*
	1725	56H	None	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅜"	**31TR76**	‡
	1725	56H	Manual	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅛"	**31TR78**	‡
	1725	56HZ	Auto	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅞"	**31TR79**	‡
	1725	56HZ	None	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅞"	**31TR82**	‡
	1725	56H	Auto	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅛"	**31TR83**	‡
	1725	56HZ	Manual	115/208-230	12.6/6.9-6.3	1.15	B	83.8%	13⅞"	**31TR85**	‡
2	3450	145T	None	115/208-230	17.5/9.3-8.6	1.15	B	80.0%	13¼"	**6K631**	
	3450	56H	Auto	115/208-230	17.8/9.2-8.9	1.15	B	82.9%	11 15⁄16"	**31TT01**	‡
	3450	56H	None	115/208-230	17.8/9.2-8.9	1.15	B	82.9%	12 15⁄16"	**31TT02**	‡
	3450	56H	Manual	115/208-230	17.8/9.2-8.9	1.15	B	82.9%	11 15⁄16"	**31TT05**	‡
	1740	213	None	115/230	24.6/12.3	1.15	F	76.1%	15"	**5K482**	*
	1730	182T	None	115/230	23.2/11.6	1.15	F	75.1%	14¾"	**5K953**	*
	1725	56H	None	115/208-230	17.6/9.5-8.8	1.15	B	84.5%	13 1⁄16"	**31TR70**	‡
	1725	56H	Auto	115/208-230	17.6/9.5-8.8	1.15	B	84.8%	14 3⁄16	**31TR71**	‡
	1725	56HZ	None	115/208-230	17.6/9.5-8.8	1.15	B	84.5%	14¾"	**31TR84**	‡
	1725	56HZ	Auto	115/208-230	17.6/9.5-8.8	1.15	B	84.5%	14¾"	**31TR88**	‡
3	3540	182T	None	115/230	32.0/16.0	1.15	F	84.9%	17¼"	**6K632**	*
	3450	145T	None	115/230	25.0/12.5	1.15	B	84.1%	13¾"	**5JE13**	
	1745	215	None	115/230	35.6/17.8	1.15	F	80.4%	16⅞"	**5K483**	
	1735	184T	None	115/230	32.0/16.0	1.15	F	78.1%	15¾"	**5K675**	*
5	3530	184T	None	230	19.6	1.15	F	88.1%	18"	**6K633**	
	1745	213T	None	230	22	1.15	F	85.0%	17¼"	**5K676**	
	1740	184T	None	230	20	1.15	F	84.2%	16¼"	**6K854**	
7½	3530	213T	None	230	30.3	1.15	F	89.3%	19⅛"	**6K634**	
	1740	215T	None	230	35.5	1.15	F	85.4%	19⅞"	**5K677**	
10	1740	215T	None	230	42.2	1.15	F	88.2%	19⅞"	**6K100**	

**** Capacitor-start. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.***



No. 20CL62



No. 6K634

Dayton®

2015 SMALL MOTOR LEGISLATION

Capacitor-Start/Run Open Dripproof Rigid Base-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

For use in clean, dry, and nonhazardous environments. 1½ HP and above feature side-mounted conduit box. UL Recognized and CSA Certified or UL Recognized for US and Canada.

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.



- Scan the Item Number
- See Your Price
- Place Your Order. Done





No. 5K191



No. 6K562

Dayton

Capacitor-Start Totally Enclosed Fan-Cooled Rigid Base-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

For use in dirty, dusty, and nonhazardous environments. Can be used in place of open dripproof motors. UL Recognized and CSA Certified or UL Recognized for US and Canada.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Overall Length	Item No.	
¼	1725	48	Auto	115/208-230	5.6/2.7-2.8	1.00	B	10½"	**5K191**	
	1725	56	None	115/208-230	5.6/2.7-2.8	1.15	B	11"	**5K262**	
	1725	56	Auto	115/208-230	5.6/2.7-2.8	1.15	B	11"	**5K263**	
	1140	56	None	115/208-230	6.9/3.0-3.4	1.15	B	11⅜"	**5UKE5**	
⅓	3450	48	Auto	115/208-230	4.7/2.4-2.3	1.00	B	9¾"	**6K481**	†
	3450	48	None	115/208-230	4.7/2.4-2.3	1.00	F	10"	**5UKE6**	†
	1725	48	Auto	115/208-230	6.6/3.0-3.3	1.15	B	10¼"	**5K192**	
	1725	56	None	115/208-230	6.0/3.0-3.0	1.15	B	11"	**4K936**	
	1725	56	Auto	115/208-230	7.0/3.3-3.5	1.15	B	10⅝"	**5K121**	
	1725	56	Manual	115/208-230	6.6/3.0-3.3	1.15	B	11"	**5UKE8**	
	1140	56	None	115/208-230	6.8/3.4-3.4	1.00	B	11⅜"	**5K502**	
½	3450	48	Auto	115/208-230	6.3/3.4-3.3	1.00	B	10⁷⁄₁₆"	**6K482**	†
	3450	48	Manual	115/208-230	6.5/3.5-3.4	1.00	B	11½"	**5UKE9**	†
	3450	48	None	115/208-230	6.5/3.5-3.4	1.00	B	10⁷⁄₁₆"	**5UKF0**	†
	3450	56	Manual	115/208-230	8.0/3.8-4.0	1.00	B	11⁹⁄₁₆"	**6K184**	
	3450	56	None	115/208-230	8.6/4.1-4.4	1.00	B	11¹³⁄₁₆"	**5UKF2**	
	1725	48	Auto	115/208-230	8.5/4.2-4.3	1.00	F	11⅛"	**5K193**	
	1725	48	None	115/208-230	8.2/4.1-4.1	1.00	B	11"	**6K177**	
	1725	56	Auto	115/208-230	9.0/4.3-4.5	1.15	B	11⅜"	**6K122**	
	1725	56	Manual	115/208-230	9.0/4.3-4.5	1.15	B	11"	**6K637**	
	1725	56	None	115/208-230	9.0/4.3-4.5	1.15	B	11⅜"	**6K937**	
	1140	56	None	115/208-230	10.6/5.4-5.3	1.00	B	13⅜"	**5K672**	*
¾	3450	48	None	115/208-230	11.1/5.4-5.6	1.00	F	12"	**5UKF4**	
	3450	56	Manual	115/208-230	10.4/5.3-5.2	1.00	B	11⅞"	**6K358**	
	3450	56	Auto	115/208-230	10.4/5.3-5.2	1.15	B	11¹⁵⁄₁₆"	**6K483**	
	1725	56	Auto	115/208-230	11.4/5.7-5.7	1.15	F	11⅞"	**6K123**	
	1725	56	Manual	115/208-230	11.4/5.7-5.7	1.15	B	11⅞"	**6K639**	
	1725	56	None	115/208-230	11.4/5.7-5.7	1.15	F	11⅜"	**6K938**	
	1140	56H	None	115/208-230	10.6/5.4-5.3	1.15	B	13⅜"	**5UKF6**	*
1	3450	56	Manual	115/208-230	13.6/6.9-6.8	1.00	B	12⅜"	**5K960**	
	3450	56	Auto	115/208-230	13.6/6.9-6.8	1.00	B	12⅜"	**6K484**	
	3450	56	None	115/208-230	13.6/6.9-6.8	1.00	B	12⁷⁄₁₆"	**5UKF7**	
	1740	182	None	115/230	13.8/6.9	1.00	F	14⅛"	**5K485**	
	1725	56H	None	115/208-230	14.0/6.9-7.0	1.15	B	12⅜"	**1K065**	
	1725	56H	Auto	115/208-230	9.9/5.2-5.0	1.15	B	12¹⁵⁄₁₆"	**6K562**	*
	1725	56H	Manual	115/208-230	14.0/6.9-7.0	1.15	B	12⅜"	**6K640**	
	1725	56HZ	None	115/208-230	14.0/6.9-7.0	1.15	B	12¾"	**6K407**	
	1725	56HZ	Manual	115/208-230	14.0/6.9-7.0	1.15	B	12¾"	**6K418**	
	1725	56HZ	Auto	115/208-230	14.0/6.9-7.0	1.15	B	12¾"	**5UKF8**	
	1725	143T	None	115/208-230	14.0/6.9-7.0	1.15	B	12¾"	**6K827**	
1½	3450	56H	Manual	115/208-230	14.6/8.1-7.4	1.00	B	12⅞"	**6K338**	*
	3450	56H	Auto	115/208-230	14.6/8.1-7.4	1.00	B	12⅞"	**6XJ53**	*
	3450	143T	None	115/208-230	14.6/8.1-7.4	1.00	B	13¼"	**3K300**	*
	1750	184	None	115/230	18.4/9.2	1.00	F	15⅛"	**5K486**	
	1725	56H	None	115/208-230	14.4/8.0-7.2	1.15	B	13⅞"	**1K066**	*
	1725	56H	Auto	115/208-230	14.4/8.0-7.2	1.15	B	13-14/16"	**5K565**	*
	1725	56H	Manual	115/208-230	14.4/8.0-7.2	1.15	B	13⅞"	**5K641**	*
	1725	56HZ	None	115/208-230	14.4/8.0-7.2	1.15	B	14¼"	**6K419**	*
	1725	56HZ	Manual	115/208-230	14.4/8.0-7.2	1.15	B	14¼"	**6K420**	*
	1725	56HZ	Auto	115/208-230	14.4/8.0-7.2	1.15	B	14¼"	**5UKG0**	*
	1725	145T	None	115/208-230	14.4/8.0-7.2	1.15	B	14¼"	**6K828**	*
2	3450	56H	Manual	115/208-230	19.5/10.8-9.7	1.00	B	13⅜"	**5K961**	*
	3450	56H	Auto	115/208-230	19.5/10.8-9.7	1.15	B	13⅞"	**5UKG3**	*
	3450	56H	None	115/208-230	19.5/10.8-9.7	1.00	B	13⅜"	**5UKG4**	*
	3450	145T	None	115/208-230	19.5/10.8-9.7	1.00	B	14¼"	**3K344**	*
	1740	182T	None	115/230	23.6/11.8	1.00	F	15⅛"	**5K966**	*
	1725	56H	None	115/208-230	18.9/10.3-9.4	1.00	F	13⅞"	**1K067**	*
	1725	56H	Auto	115/208-230	18.9/10.3-9.4	1.00	F	14⁷⁄₁₆"	**5UKG5**	*
	1725	56HZ	Auto	115/230	18.9/9.4	1.00	F	14⁵⁄₁₆"	**5UKG6**	*
	1725	56HZ	None	115/208-230	18.8/10.2-9.4	1.00	B	14⁵⁄₁₆"	**5UKG7**	*
3	3540	182T	None	115/230	32.0/16.0	1.00	F	16⅝"	**6K145**	
	3450	145T	None	230	15.4	1.00	F	15"	**5UKG8**	*
	1740	184T	None	115/230	30.0/15.0	1.00	F	17⅝"	**5K967**	*
5	3540	184T	None	230	19.6	1.15	F	17¹¹⁄₃₂"	**6K146**	*
	1745	213T	None	230	23.0	1.00	F	19⁹⁄₁₆"	**5K968**	*
	1740	184T	None	230	22.0	1.00	F	18⅛"	**2TJ12**	*
7½	3530	213T	None	230	30.3	1.00	F	20"	**6K179**	*
	1745	215T	None	230	30	1.00	F	22¹⁄₁₆"	**6K176**	*
10	3535	215T	None	230	40	1.00	F	22¹⁄₁₆"	**5UKH0**	*
	1730	215T	None	230	38.0	1.00	F	22¹⁄₁₆"	**5UKH1**	*

**** Capacitor-start, capacitor-run. † Totally enclosed nonventilated.***

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store

GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Capacitor-Start Open Dripproof and Totally Enclosed Face-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Open dripproof motors are for use in clean, dry, and nonhazardous applications including speed reducers, pumps, blowers, conveyors, and other equipment that mounts directly to a NEMA C-face motor. Totally enclosed motors are also suitable for dusty, dirty, and nonhazardous environments. UL Recognized and CSA Certified or UL Recognized for US and Canada.

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Brand	Item No.	
Open Dripproof, Face-Mount											
¼	1725	56C	None	115/230	3.1/1.5	1.35	B	68.5%	Dayton	**30PT38**	*‡
	1725	56C	Auto	115/208-230	2.4/1.2-1.2	1.35	B	68.5%	Dayton	**20VD14**	*‡
⅓	1725	56C	None	115/230	3.8/1.9	1.35	B	72.4%	Dayton	**30PT39**	*‡
	1725	56C	Auto	115/208-230	3.8/1.9-1.9	1.35	B	72.4%	Dayton	**20VD12**	*‡
½	1725	56C	None	115/230	5.0/2.6	1.25	B	76.2%	Dayton	**30PT40**	*‡
	1725	56C	Auto	115/208-230	4.6/2.4-2.3	1.25	B	76.2%	Dayton	**20VD13**	*‡
¾	1725	56C	None	115/230	7.0/3.5	1.25	B	81.8%	Dayton	**30PT41**	*‡
	1725	56C	Auto	115/208-230	6.6/3.5-3.3	1.25	B	81.8%	Dayton	**31TR92**	*‡
1	1725	56C	None	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	Dayton	**31TR91**	*‡
	1725	56C	Auto	115/208-230	8.4/4.6-4.2	1.15	B	82.6%	Dayton	**31TR93**	*‡
1½	1725	56C	None	115/230	13.4/6.7	1.15	B	83.8%	Dayton	**30PT42**	*‡#
2	1725	56C	None	115/208-230	17.6/9.5-8.8	1.15	B	84.5%	Dayton	**31TR89**	*‡#
Open Dripproof, Face/Base-Mount											
⅓	1725	56C	None	115/230	3.8/1.9	1.35	B	72.4%	Dayton	**30PT43**	*‡
½	1725	56C	None	115/230	5.0/2.6	1.25	B	76.2%	Dayton	**30PT44**	*‡
¾	1725	56C	None	115/208-230	6.6/3.5-3.3	1.25	B	81.8%	Dayton	**31TR90**	*‡
1	1725	145TC	None	115/208-230	14.8/7.5-7.3	1.15	B	70.0%	Dayton	**4K811**	#
1½	1725	145TC	None	115/208-230	19.2/10.0-9.6	1.15	B	74.0%	Dayton	**4K812**	#
3	1750	184TC	None	115/230	33.0/16.5	1.15	F	82.7%	Dayton	**4K815**	*#
Totally Enclosed Fan-Cooled, Face-Mount											
⅛	1725	42CZ	None	115/230	3.8/1.9	1.15	B	49.1%	Dayton	**1K057**	#
	1725	56C	None	115/208-230	4.3/1.9-2.1	1.15	F	52.9%	Dayton	**5GD53**	†#
	1140	56C	None	115/208-230	3.8/1.8-1.9	1.15	B	54.1%	Dayton	**5GD54**	#
¼	1725	42CZ	None	115/230	4.5/2.3	1.15	B	60.3%	Dayton	**1K058**	#
	1725	56C	None	120/208-240	5.6/2.7-2.8	1.35	F	56.2%	Dayton	**6K975**	#
	1140	56C	None	115/208-230	5.6/2.7-2.8	1.00	B	58.5%	Dayton	**6XJ44**	#
⅓	3450	56C	Auto	115/208-230	4.7/2.4-2.3	1.00	B	60.0%	Dayton	**6K181**	†#
	1725	42CZ	None	115/230	6.2/3.1	1.00	F	61.2%	Dayton	**1K059**	#
	1725	56C	None	115/208-230	7.7/3.9-3.9	1.15	B	52.7%	Dayton	**5K341**	#
½	3450	56C	Auto	115/208-230	7.8/4.1-3.9	1.00	B	57.8%	Dayton	**6K182**	#
	3450	56C	Auto	115/230	7.4/3.7	1.15	B	64.0%	Marathon	**2K376**	
	1725	56C	None	115/208-230	7.7/3.9-3.9	1.15	B	60.8%	Dayton	**6K342**	#
	1725	56C	Auto	115/208-230	9.0/4.3-4.5	1.15	B	60.7%	Dayton	**5GD57**	#
	1725	56C	Auto	115/230	8.6/4.3	1.15	B	64.0%	Marathon	**21YZ93**	
	1140	56C	None	115/208-230	10.4/5.1-5.2	1.15	B	62.2%	Dayton	**5GD58**	#
¾	3450	56C	Auto	115/208-230	10.4/5.3-5.2	1.15	B	67.8%	Dayton	**6K831**	#
	3450	56C	Auto	115/230	9.8/4.9	1.00	B	70.0%	Marathon	**2K388**	
	1725	56C	None	115/208-230	11.0/5.4-5.5	1.15	B	70.2%	Dayton	**6K436**	#
	1725	56C	Auto	115/208-230	11.4/5.7-5.7	1.15	B	69.0%	Dayton	**5GD60**	#
1	3450	56C	Auto	115/208-230	13.6/6.9-6.8	1.00	B	66.7%	Dayton	**6K197**	#
	1725	56C	None	115/208-230	9.9/5.2-5.0	1.15	B	79.3%	Dayton	**6K674**	*#
1½	3450	56C	Auto	115/208-230	14.6/8.1-7.4	1.00	B	78.5%	Dayton	**6K832**	*#
	3450	56C	Auto	115/230	16.4/8.2	1.00	B	75.5%	Marathon	**2K389**	
	1725	56C	None	115/208-230	14.4/8.0-7.2	1.15	B	80.0%	Dayton	**6K702**	*#
2	3450	56C	None	115/208-230	19.5/10.8-9.7	1.15	B	80.0%	Dayton	**5GD67**	*#
	3450	56C	Auto	115/230	17.8/8.9	1.00	B	78.5%	Marathon	**2K383**	
	3450	143TC	None	115/208-230	19.5/10.8-9.7	1.00	B	80.0%	Dayton	**5GD68**	*#
	1725	56C	None	115/208-230	18.9/10.3-9.4	1.00	F	81.5%	Dayton	**1K075**	*#
Totally Enclosed Fan-Cooled, Face/Base-Mount											
⅓	3450	56C	Auto	115/208-230	6.6/3.2-3.3	1.15	B	51.6%	Dayton	**1K076**	#
	1725	56C	None	115/208-230	6.6/3.0-3.3	1.00	B	71.6%	Dayton	**1K077**	#
½	3450	56C	Auto	115/208-230	7.8/4.1-3.9	1.00	B	56.1%	Dayton	**1K078**	#
	1725	56C	None	115/208-230	7.7/3.9-3.9	1.15	B	69.4%	Dayton	**1K079**	#
¾	3450	56C	Auto	115/208-230	10.4/5.3-5.2	1.15	B	74.7%	Dayton	**1K080**	#
	1725	56C	None	115/208-230	11.0/5.4-5.5	1.15	B	71.3%	Dayton	**1K081**	#
1	3450	56C	None	115/208-230	13.9/6.9-7	1.00	B	75.1%	Dayton	**3K348**	#
	3450	56C	Auto	115/230	13.0/6.5	1.00	B	70.0%	Marathon	**2K380**	
	1725	56HC	None	115/208-230	9.9/5.2-5.0	1.15	B	67.8%	Dayton	**6K045**	*#
1½	1725	56HC	None	115/208-230	14.4/8.0-7.2	1.15	B	80.0%	Dayton	**1K082**	*#

** Capacitor-start/run. † Totally enclosed nonventilated. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information. # Supplied with conduit box.*



No. 30PT38



No. 1K057



No. 1K081

Capacitor-Start/Run Totally Enclosed Face-Mount Motors

- Rotation: CW/CCW
- 60/50 Hz
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Include side-mount conduit box

Use in applications including speed reducers, pumps, blowers, conveyors, and other equipment that mounts directly to a NEMA C-face motor. Motors are suitable for dusty, dirty, and nonhazardous environments. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Nom. Efficiency	Mfr. Stock No.	Item No.
Face-Mount									
⅓	1725/1425	56C	None	120/240	4.0-3.8/2.0-1.9	1.35	70.2%	E256	**1K125**
½	1725/1425	56C	None	120/240	5.8-5.6/2.9-2.8	1.25	74.0%	E265	**1K128**
1	1725/1425	56C	None	120/240	11.8-11.4/15.9-5.7	1.15	77.4%	E283	**1K134**
Face/Base-Mount									
⅓	1725/1425	56C	Manual	120/240	4.0-3.8/2.0-1.9	1.35	70.2%	E255	**1K124**
	1725/1425	56C	Auto	120/240	4.0-3.8/2.0-1.9	1.35	70.2%	E257	**1K126**
½	1725/1425	56C	Auto	120/240	5.8-5.6/2.9-2.8	1.25	74.0%	E266	**1K129**
¾	1725/1425	56C	Auto	120/240	9.0-8.8/4.5-4.4	1.25	75.2%	E275	**1K132**
1	1725/1425	56C	Manual	120/240	11.8-11.4/15.9-5.7	1.15	77.4%	EG282	**1K133**
	1725/1425	56C	Auto	120/240	11.8-11.4/15.9-5.7	1.15	77.4%	EG284	**1K135**



No. 1K132

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

For assistance with motor selection, see pages 3 to 7.



No. 2NKY8



No. 20CL65

Dayton NEMA Premium

3-Phase Open Dripproof Rigid Base Motors

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460
- Insulation: Class F motors have Class B temperature rise for longer life
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C
- Usable at 208V

143-5T/56HZ frames have ⅞" x 2¼" shaft and base bolt-hole configuration to match 56, 56H, 143T, and 145T. Steel frame. All models are suitable for clean, dry, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. UL Recognized and CSA Certified or UL Recognized for US and Canada.

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Overall Length	Item No.	
NEMA Premium Efficient									
1	1760	143-5T/56HZ	3.2-3.1/1.6	1.15	F	85.5%	12 13/16"	**2NKX3**	*
	1770	182/4	2.7/1.3	1.15	F	85.5%	14¼"	**36VE91**	*†
	1165	143-5T/56HZ	4.0/2.0	1.15	F	82.5%	14 1/16"	**2NKX5**	*
	1170	182/4	2.5/1.2	1.15	F	82.5%	13½"	**36VE93**	*†
1½	3525	143-5T/56HZ	3.8/1.9	1.15	F	84.0%	12 13/16"	**2NKY4**	*
	3530	182/4	4.1/2.0	1.15	F	84.0%	13½"	**36VE97**	*†
	1760	56H	4.2/2.1	1.15	F	86.5%	13 1/16"	**31LH33**	†
	1750	143-5T/56HZ	4.5-4.3/2.1	1.15	F	86.5%	12-5/6"	**2NKX7**	*
	1770	182/4	4.1/2.0	1.15	F	86.5%	13½"	**36VE92**	*†
	1170	182/4	4.6/2.3	1.15	F	86.5%	14¼"	**36VE94**	*†
	1165	182/4T	4.5/2.2	1.15	F	86.5%	13½"	**36VF34**	*†
2	3510	56H	5.3/2.7	1.15	F	85.5%	12 11/16"	**31LH34**	†
	3515	143-5T/56HZ	5.0/2.5	1.15	F	85.5%	12 13/16"	**2NKX9**	*
	3520	182/4	5.1/2.2	1.15	F	85.5%	13½"	**36VE98**	*†
	1745	143-5T/56HZ	5.6/2.8	1.15	F	86.5%	12-5/6"	**2NKY2**	*
	1750	182/4	6.2/3.1	1.15	F	86.5%	13⅛"	**2N982**	*†
	1165	182/4T	5.9/2.9	1.15	F	87.5%	14¾"	**36VF35**	*†
	1170	213/5	6.2/3.1	1.15	F	88.5%	16 13/16"	**2N990**	*†
3	3490	143-5T/56HZ	7.4/3.7	1.15	F	85.5%	12 13/16"	**2NKY6**	*
	3445	182/4	7.8/3.9	1.15	F	85.5%	13½"	**36VE99**	*†
	1760	143-5T/56HZ	8.1/4.0	1.15	F	90.2%	16⅛"	**41D773**	*†
	1770	182/4T	8.3-7.8/3.9	1.15	F	89.5%	13-9/13"	**2NKY8**	*
	1740	213/5	7.9/3.9	1.15	F	89.5%	16 13/16"	**2N983**	*†
	1180	213/5	8.6/4.4	1.15	F	88.5%	16 3/16"	**36VE95**	*†
	1175	213/5T	8.3/4.1	1.15	F	88.5%	16⅝"	**36VF36**	*†
5	3520	182/4T	12.2/6.1	1.15	F	86.5%	14¾"	**36VF37**	*†
	3550	213/5	12.0/6.0	1.15	F	86.5%	16 3/16"	**36VF01**	*†
	1760	182/4T	12.7/6.3	1.15	F	89.5%	16⅜"	**36VF38**	*†
	1740	213/5	12.7/6.4	1.15	F	89.5%	16 13/16"	**2N984**	*†
	1175	213/5T	13.4/6.7	1.15	F	89.5%	16"	**36VF39**	*†
	1180	254/6U	14.6/7.3	1.15	F	89.5%	20¼"	**36VE96**	*†
7½	3500	182/4T	17.3/8.6	1.15	F	88.5%	15 3/16"	**36VF40**	*†
	3540	213/5	17.8/8.9	1.15	F	88.5%	16 3/16"	**36VF02**	*†
	1770	213/5T	18.5/9.2	1.15	F	91.0%	16⅝"	**36VF41**	*†
	1770	254/6U	18.8/9.4	1.15	F	91.0%	21 13/16"	**2N985**	*†
	1175	254/6T	20.4/10.2	1.15	F	90.2%	20½"	**36VF06**	*†
10	3535	213/5T	23.3/11.6	1.15	F	89.5%	16"	**36VF42**	*†
	3540	254/6U	23.4/11.7	1.15	F	89.5%	20¼"	**36VF03**	*†
	1770	213/5T	24.8/12.4	1.15	F	91.7%	17¾"	**36VF43**	*†
	1770	254/6U	25.7/12.9	1.15	F	91.7%	21 13/16"	**2N986**	*†
	1180	254/6T	27.8/13.9	1.15	F	91.7%	20½"	**36VF07**	*†
15	3530	213/5T	34.0/17.0	1.15	F	90.2%	18 15/16"	**36VF44**	*†
	1770	254/6T	36.4/18.2	1.15	F	93.0%	22½"	**4GZC4**	*
20	3530	254/6T	44.7/22.3	1.15	F	91.0%	20½"	**36VF08**	*†
	1770	254/6T	48.5/24.3	1.15	F	93.0%	22½"	**4GZC7**	*
25	3530	254/6T	58.2/29.1	1.15	F	91.7%	20½"	**36VF09**	*†
	1765	284/6T	58.8/29.4	1.15	F	93.6%	25⅜"	**4GZD1**	*
30	1770	284/6T	69.4/34.7	1.15	F	94.1%	25⅜"	**4GZD4**	*
40	3535	284/6TS	89.6/44.8	1.15	F	92.4%	24"	**4GZD6**	*
50	3560	324TS	113/56.5	1.15	F	93.0%	27 1/16"	**4GZD9**	
	1780	326T	118.0/59	1.15	F	94.5%	28 9/16"	**4GZE1**	
Premium Efficient									
¼	1725	48	1.0/0.50	1.35	B	69.5%	10⅜"	**20CL67**	*‡
	1725	56	1.0/0.55	1.35	B	69.5%	10¾"	**20VD21**	*‡
	1140	56	1.2/0.60	1.35	B	67.5%	11 3/16"	**31TT09**	*‡
⅓	3450	48	1.4/0.70	1.35	B	69.5%	9 5/16"	**20CL65**	*‡
	1725	48	1.2/0.60	1.35	B	73.4%	10⅞"	**20CL68**	*‡
	1725	56	1.2/0.60	1.35	B	73.4%	11¼"	**20VD22**	*‡
	1140	56	1.4/0.70	1.35	B	71.4%	12"	**31TT10**	*‡
½	3450	48	1.8/0.90	1.25	B	73.4%	9 7/16"	**20CL66**	*‡
	3450	56	1.8/0.90	1.25	B	73.4%	10"	**20VD23**	*‡
	1725	56	1.7/0.85	1.25	B	78.2%	11⅛"	**31TT08**	*‡
	1140	56	2.8/1.4	1.25	B	75.3%	11 1/16"	**31TT11**	*‡
¾	1725	56	2.5/1.3	1.25	B	81.1%	11 5/16"	**31TT14**	*‡
	1140	56H	3.5/1.8	1.25	B	81.7%	14"	**31TT16**	*‡
1	3450	56	3.0/1.5	1.15	B	77.0%	10 3/16"	**30PT92**	*‡
	1725	56	3.0/1.5	1.15	B	83.5%	11 1/16"	**31TT12**	*‡
	1760	56H	3.14/1.57	1.15	F	83.5%	11½"	**31LH31**	†‡
	1725	56H	3.0/1.5	1.15	B	83.5%	11 1/16"	**31TT15**	*‡
1½	3450	56	4.2/2.1	1.15	B	84.0%	11 3/16"	**30PT93**	*‡
	3510	56H	3.7/1.85	1.15	F	84.0%	11⅞"	**31LH32**	†‡
	1725	56H	4.7/2.4	1.15	B	86.5%	13 1/16"	**31TT13**	*‡
2	3450	56H	5.4/2.7	1.15	B	85.5%	12 11/16"	**31TT07**	*‡
	1725	56H	6.0/3.0	1.15	B	86.5%	13 1/16"	**31TT22**	*‡
3	1735	56H	8.1/4.0	1.15	F	86.9%	13 1/16"	**31LH35**	†‡

** 60/50 Hz. † Usable at 200V at 1.0 SF. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*



No. 14R028



No. 41D790

AEGIS® SGR BEARING PROTECTION RING

Looking for Shaft Grounding Rings?

Help extend motor life by safely diverting harmful VFD-induced shaft voltages away from motor's bearings to ground. Protect both motor bearings and the bearings in attached equipment.

See page 17 or go to Grainger.com®

Dayton® NEMA Premium™

3-Phase Totally Enclosed Nonventilated and Totally Enclosed Fan-Cooled Rigid Base Motors

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460
- Insulation: Class F motors have Class B temperature rise for longer life
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C
- Usable at 208V
- Warranty: 48, 56, and 143-5T/56HZ frame 1 yr.; 140T frame and above 3 yr.

143-5T/56HZ frame motors have ⅞" x 2¼" shaft and mounting base holes/slots to match 56, 56H, 143T, and 145T frame motors. Not for cooling tower applications. Suitable for dusty, dirty, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. All are UL Recognized and CSA Certified.



No. 48ZJ83

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Frame Material	Overall Length	Item No.	
Totally Enclosed Nonventilated, NEMA Premium Efficient										
1	1750	56H	3.1-3.0/1.5	1.25	F	85.5%	Rolled Steel	11⅛"	**48ZJ83**	*†
Totally Enclosed Nonventilated, Premium Efficient										
¼	1725	48	1.1-1.1/.5	1.00	B	69.7%	Rolled Steel	9¹⁄₁₆"	**3N349**	*
⅓	3450	48	1.2-1.1/0.60	1.15	B	72.0%	Rolled Steel	9¼"	**3N854**	*
	1725	48	1.3-1.3/0.70	1.00	B	72.0%	Rolled Steel	10¹⁄₁₆"	**3N350**	*
	1765	56	1.4-1.5/0.70	1.00	F	72.0%	Rolled Steel	10³⁄₁₆"	**3N694**	*
½	1755	56	1.9/1.8-1.0	1.15	F	78.5%	Rolled Steel	10³⁄₁₆"	**3N695**	*
¾	1725	56	2.9-2.8/1.4	1.15	B	81.1%	Rolled Steel	11⅞"	**3N696**	*
Totally Enclosed Fan-Cooled, NEMA Premium Efficient										
1	3475	143T	2.8/1.4	1.15	F	80.0%	Cast Iron	12⁵⁄₁₆"	**2MXT3**	
	1755	56H	3.0/1.5	1.25	F	85.5%	Rolled Steel	12⅜"	**48ZJ84**	*†
	1745	143T	2.7/1.4	1.15	F	85.5%	Cast Iron	12⁵⁄₁₆"	**2MXT4**	
	1755	143-5T/56HZ	3.1-3.0/1.5	1.25	F	85.5%	Rolled Steel	13"	**2NKX4**	*
	1760	182/4	3.4/1.7	1.15	F	85.5%	Steel	15¼"	**2N933**	*†
	1155	56H	3.5/1.8	1.25	F	82.5%	Rolled Steel	12⅝"	**48ZJ85**	*†
	1155	143-5T/56HZ	3.8/1.9	1.25	F	82.5%	Rolled Steel	13"	**2NKX6**	*
	1160	145T	3.2/1.6	1.15	F	82.5%	Cast Iron	13⁵⁄₁₆"	**2MXT5**	
	1170	182/4	3.2/1.6	1.15	F	82.5%	Rolled Steel	15⅛"	**36VE88**	*†
1½	3465	56H	3.9/1.9	1.15	B	84.0%	Rolled Steel	12⅝"	**48ZJ86**	*†
	3485	143T	3.9/1.9	1.15	F	84.0%	Cast Iron	12⁵⁄₁₆"	**2MXT6**	
	3515	143-5T/56HZ	4.0/2.0	1.25	F	84.0%	Steel	13"	**2NKY5**	*
	3455	182/4	3.9/1.9	1.15	F	84.0%	Steel	15¼"	**2N946**	*†
	1730	56H	4.1/2.0	1.15	F	86.5%	Steel	13¹³⁄₁₆"	**6VPF0**	*†
	1755	56H	4.3/2.1	1.25	F	86.5%	Rolled Steel	12⅝"	**48ZJ88**	*
	1755	143-5T/56HZ	4.5-4.3/2.2	1.25	F	86.5%	Rolled Steel	12-5/6"	**2NKX8**	*
	1740	145T	4.0/2.0	1.15	F	86.5%	Cast Iron	13⁵⁄₁₆"	**2MXT7**	
	1765	182/4	4.4/2.2	1.15	F	84.0%	Rolled Steel	15⅞"	**36VF24**	*†
	1170	182/4	4.5/2.2	1.15	F	85.5%	Rolled Steel	16⅜"	**36VE89**	*†
	1170	182/4T	5.8/2.9	1.15	F	87.5%	Steel	16⁹⁄₁₆"	**4GYY7**	*
	1180	182T	4.7/2.4	1.15	F	86.5%	Cast Iron	14¹¹⁄₁₆"	**2MXT8**	
2	3505	56H	5.0/2.5	1.25	F	85.5%	Rolled Steel	12⅝"	**48ZJ89**	*†
	3505	143-5T/56HZ	4.8/2.4	1.25	F	85.5%	Rolled Steel	12¾"	**2NKY1**	*
	3480	145T	5.0/2.5	1.15	F	85.5%	Cast Iron	13⁵⁄₁₆"	**2MXT9**	
	3510	182/4	5.4/2.7	1.15	F	84.0%	Rolled Steel	15⅞"	**36VF26**	*†
	1745	56H	5.4/2.7	1.15	F	86.5%	Rolled Steel	13⅜"	**36VF93**	*†
	1750	56H	5.7/2.8	1.25	F	86.5%	Rolled Steel	12⅝"	**48ZJ90**	*†
	1750	143-5T/56HZ	5.9-5.7/2.8	1.25	F	86.5%	Rolled Steel	12-5/6"	**2NKY3**	*
	1730	145T	5.0/2.5	1.15	F	86.5%	Cast Iron	13⁵⁄₁₆"	**2MXU1**	
	1765	182/4	6.0/3.0	1.15	F	84.0%	Rolled Steel	15⅞"	**36VF25**	*†
	1165	182/4T	6.6/3.3	1.15	F	88.5%	Steel	16⁹⁄₁₆"	**4GYY8**	*
	1180	184T	6.1/3.1	1.15	F	88.5%	Cast Iron	15¾"	**2MXU2**	
	1175	213/5	6.3/3.1	1.15	F	88.5%	Steel	19¼"	**2N943**	*†
3	3510	143-5T/56HZ	7.2/3.6	1.25	F	86.5%	Rolled Steel	13"	**41D774**	*†
	3510	182/4	7.6/3.8	1.15	F	85.5%	Rolled Steel	15⅞"	**36VF27**	*†
	3500	182T	7.4/3.7	1.15	F	86.5%	Cast Iron	14¹¹⁄₁₆"	**2MXU3**	
	3540	182T/4T	7.8/3.9	1.15	F	87.5%	Rolled Steel	14⅞"	**2NKY7**	*
	1765	182/4T	7.6/3.8	1.15	F	89.5%	Rolled Steel	17¹⁵⁄₁₆"	**36VF28**	*†
	1760	182T	7.6/3.8	1.15	F	89.5%	Cast Iron	14¹¹⁄₁₆"	**2MXU4**	
	1770	213/5	7.8/3.9	1.15	F	87.5%	Rolled Steel	18¹⁵⁄₁₆"	**36VE86**	*†
	1170	213/5	8.9/4.5	1.15	F	89.5%	Steel	19¼"	**2N944**	*†
	1175	213/5T	8.3/4.1	1.15	F	89.5%	Rolled Steel	19⁹⁄₁₆"	**36VF29**	*†
	1180	213T	8.4/4.3	1.15	F	89.5%	Cast Iron	18"	**2MXU5**	
5	3500	182/4T	11.8/5.9	1.15	F	89.5%	Rolled Steel	17¹⁵⁄₁₆"	**36VF04**	*†
	3500	184T	12/6.0	1.15	F	88.5%	Cast Iron	16³⁄₁₆"	**2MXU6**	
	3485	213/5	12.4/6.2	1.15	F	88.5%	Steel	19¼"	**2N949**	*†
	1750	182/4T	13.0/6.4	1.15	F	89.5%	Rolled Steel	17¹⁵⁄₁₆"	**36VF05**	*†
	1750	184T	12.4/6.2	1.15	F	89.5%	Cast Iron	15¾"	**2MXU7**	
	1770	213/5	12.4/6.2	1.15	F	87.5%	Rolled Steel	18½"	**36VE87**	*†
	1175	213/5T	13.4/6.7	1.15	F	89.5%	Rolled Steel	20¹⁄₁₆"	**36VF30**	*†
	1175	215T	13.8/6.9	1.15	F	89.5%	Cast Iron	19½"	**2MXU8**	
7½	3540	213/5T	17.6/8.8	1.15	F	90.2%	Rolled Steel	20½"	**36VF31**	*†
	3510	213T	17.8/8.9	1.15	F	89.5%	Cast Iron	18"	**2MXU9**	
	1770	213/5T	18.1/9.0	1.15	F	91.7%	Rolled Steel	18¹⁵⁄₁₆"	**36VF32**	*†
	1770	213T	19.6/9.8	1.15	F	91.7%	Cast Iron	18"	**2MXV1**	
	1770	254/6U	18.4/9.2	1.15	F	91.7%	Steel	23⅛"	**2N938**	*†
	1165	254T	20.9/10.4	1.15	F	91.0%	Cast Iron	23¹¹⁄₁₆"	**2MXV2**	

** 60/50 Hz. † Usable at 200V at 1.0 SF.*



No. 3N350



No. 2MXT3



No. 36VE89

CONTINUED



No. 10C901



No. 2N864

Dayton NEMA Premium

3-Phase Totally Enclosed Nonventilated and Totally Enclosed Fan-Cooled Rigid Base Motors

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Frame Material	Overall Length	Item No.	
10	3485	213/5T	23.9/12.0	1.15	F	91.0%	Steel	20½"	**4GYZ7**	*
	3505	215T	23.0/11.5	1.15	F	90.2%	Cast Iron	19½"	**2MXV3**	
	1755	213/5T	24.4/12.2	1.15	F	91.7%	Rolled Steel	19⁹⁄₁₆"	**36VF33**	*†
	1770	215T	25.8/12.9	1.15	F	91.7%	Cast Iron	19½"	**2MXV4**	
	1180	256T	27.8/13.9	1.15	F	91.0%	Cast Iron	25⁷⁄₁₆"	**2MXV5**	
15	3540	254T	35.5/17.7	1.15	F	91.0%	Cast Iron	23¹¹⁄₁₆"	**2MXV6**	
	1770	254T	37.5/18.8	1.15	F	92.4%	Cast Iron	26⅛"	**2MXV7**	
20	3535	256T	47.3/23.6	1.15	F	91.0%	Cast Iron	25⁷⁄₁₆"	**2MXV9**	
	1770	256T	48.5/24.3	1.15	F	93.0%	Cast Iron	27¹³⁄₁₆"	**2MXW1**	
25	3550	284TS	58/29	1.15	F	91.7%	Cast Iron	25⁷⁄₁₆"	**2MXW3**	
	1775	284T	61.8/30.9	1.15	F	93.6%	Cast Iron	30⅛"	**2MXW4**	
30	3550	286TS	68.8/34.4	1.15	F	91.7%	Cast Iron	28¹⁵⁄₁₆"	**2MXW6**	
	1770	286T	73.2/36.6	1.15	F	93.6%	Cast Iron	31¼"	**2MXW7**	
40	3560	324TS	91.0/45.5	1.15	F	92.4%	Cast Iron	28⁷⁄₁₆"	**2MXW9**	
	1775	324T	94.8/47.4	1.15	F	94.1%	Cast Iron	29¹⁵⁄₁₆"	**2MXX1**	
	1185	364T	96.0/48.0	1.15	F	94.1%	Cast Iron	32⁹⁄₁₆"	**2MXX2**	
50	1780	326T	119.0/59.5	1.15	F	94.5%	Cast Iron	31⁷⁄₁₆"	**2MXX4**	
Totally Enclosed Fan-Cooled, Energy Efficient										
⅓	1140	56	1.4-1.4/0.70	1.00	B	70.0%	Rolled Steel	11⅞"	**2N925**	*
½	3450	48	2.0-2.0/1.0	1.15	B	76.0%	Rolled Steel	10⅜"	**10C901**	*
	1155	56	2.0/1.0	1.25	F	77.0%	Rolled Steel	12¹⁵⁄₁₆"	**2N926**	*
¾	3500	56	2.4-2.2/1.1	1.00	F	75.5%	Rolled Steel	11¹¹⁄₁₆"	**3N443**	*
	1725	48	2.8-2.8/1.5	1.00	B	74.0%	Rolled Steel	11½"	**10C899**	*
	1155	56H	3.0-2.9/1.5	1.15	F	78.5%	Rolled Steel	12-10/16"	**3N427**	*
Totally Enclosed Fan-Cooled, Standard Efficient										
⅓	1765	56	1.5/0.70	1.25	F	72.0%	Rolled Steel	11¹¹⁄₁₆"	**2N864**	*
½	3500	56	1.7-1.5/0.80	1.25	F	72.0%	Rolled Steel	11¹¹⁄₁₆"	**3N442**	*
	1725	48	1.9-1.9/1.0	1.00	B	74.0%	Rolled Steel	11¼"	**10C897**	*
	1745/1425	56	1.8-1.7/0.90	1.25	F	75.5%	Rolled Steel	11¹¹⁄₁₆"	**2N865**	*
¾	1750	56	2.7/1.3	1.25	F	78.5%	Rolled Steel	11¹¹⁄₁₆"	**2N866**	*
5	1175	254/6U	14.0/7.0	1.15	F	89.5%	Rolled Steel	22⁵⁄₁₆"	**36VE90**	*†

** 60/50 Hz. † Usable at 200V at 1.0 SF.*



No. 40Z949



No. 40Z956

marathon Motors NEMA Premium

3-Phase Totally Enclosed Fan-Cooled Rigid Base Motors with Aegis® Rings

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460
- Service factor: 1.15
- Insulation: Class F
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C
- 3-yr. warranty

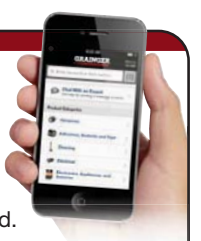
Feature bearing protection rings that provide a grounding path to divert currents away from bearings to ground. Design prevents bearing fluting damage for motors controlled by variable frequency drives. Cast-iron frame. Suitable for use on blowers, compressors, conveyors, pumps, and other machinery in dirty and dusty environments. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
1½	1755	145T	4.6/2.3	87.5%	14"	145TTFN16046	**40Z949**
2	1755	145T	6.0/3.0	87.5%	14"	145TTFN16045	**40Z950**
3	1765	182T	8.0/4.0	82.5%	15⅞"	182TTFN16047	**40Z951**
5	1755	184T	12.4/6.2	81.5%	17⅞"	184TTFN16056	**40Z952**
7½	1765	213T	19.2/9.6	91.7%	19⅝"	213TTFND16326	**482P73**
10	1765	215T	26.6/13.3	91.7%	22⅝"	215TTFND16057	**482R04**
15	1775	254T	37.5/18.8	94.5%	23½"	254TTFNA16074	**40Z955**
20	1775	256T	48.0/24.1	94.5%	25¼"	256TTFNA16070	**40Z956**
25	1775	284T	62.0/31.0	95.4%	26⁹⁄₁₆"	284TTFNA16070	**40Z957**
30	1775	286T	73.0/36.5	95.4%	27¹³⁄₁₆"	286TTFNA16328	**40Z958**
40	1780	324T	95.0/47.5	95.8%	30⅜"	324TTFS16066	**40Z959**
50	1775	326T	120.0/60.0	96.2%	31⅞"	326TTFS16073	**40Z960**

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**



For assistance with motor selection, see pages 3 to 7.


Rolled Steel Frame


Cast-Iron Frame

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
Rolled Steel Frame										
¼	3525	56	230/460	9.1/0.45	1.35	F	65.6%	10 5/16"	.2536OT3E56-S	52XR10
	1765	56	230/460	1.1/0.53	1.35	F	69.5%	9 15/16"	.2518OT3E56-S	52XR09
	1160	56	230/460	1.1/0.54	1.35	F	67.5%	10 5/16"	.2512OT3E56-S	52XR08
⅓	3520	56	230/460	1.8/0.93	1.35	F	69.5%	10 5/16"	.3336OT3E56-S	52XR13
	1765	56	230/460	1.3/0.66	1.35	F	73.4%	10 5/16"	.3318OT3E56-S	52XR12
	1160	56	230/460	1.1/0.56	1.35	F	71.4%	10 5/16"	.3312OT3E56-S	52XR11
½	3490	56	230/460	1.6/0.81	1.25	F	73.4%	10 5/16"	.5036OT3E56-S	52XR17
	1765	56	230/460	1.7/0.86	1.25	F	78.2%	10 11/16"	.5018OT3E56-S	52XR16
	1155	56	230/460	1.8/0.93	1.25	F	75.3%	10 11/16"	.5012OT3E56-S	52XR14
¾	3485	56	230/460	2.2/1.1	1.25	F	76.8%	10 11/16"	.7536OT3E56-S	52XR20
	1760	56	230/460	2.3/1.1	1.25	F	81.1%	11 1/8"	.7518OT3E56-S	52XR19
	1160	56H	230/460	2.5/1.2	1.15	F	81.7%	12 11/16"	.7512OT3E56-S	52XR18
1	3470	56	230/460	3.0/1.5	1.25	F	77.0%	10 11/16"	00136OT3E56-S	52XR23
	1765	56C	230/460	2.2/1.1	1.15	F	85.5%	13½"	00118ET3E56C-S	52XR30
	1760	143/5T	230/460	3.0/1.5	1.15	F	85.5%	11 3/16"	00118OT3E143T-S	33HN85
1½	3510	143/5T	230/460	3.7/1.8	1.15	F	84.0%	11 3/16"	00156OT3E143T-S	33HN89
	1760	143/5T	230/460	4.1/2.1	1.15	F	86.5%	12 1/16"	00158OT3E145T-S	33HN91
2	3510	143/5T	230/460	4.8/2.4	1.15	F	85.5%	12"	00236OT3E145T-S	33HN99
	1730	143/5T	208-230/460	5.4/2.7	1.15	F	86.5%	12 1/16"	00218OT3E145T-S	33HN95
3	3480	143/5T	230/460	7.2/3.6	1.15	F	85.5%	12 1/16"	00336OT3E145T-S	33HP06
	1765	182/4T	230/460	7.7/3.9	1.15	F	89.5%	15 1/8"	00318OT3E182T-S	33HP02
5	3510	182/4T	230/460	12.2/6.1	1.15	F	86.5%	14¾"	00536OT3E182T-S	33HP12
	1760	182/4T	230/460	12.7/6.3	1.15	F	89.5%	16 5/16"	00518OT3E184T-S	33HP08
7½	3500	182/4T	230/460	17.3/8.6	1.15	F	88.5%	15 1/8"	00736OT3E184T-S	33HP18
	1770	213/5T	230/460	18.5/9.3	1.15	F	91.0%	16 9/16"	00718OT3E213T-S	33HP14
10	3535	213/5T	230/460	24.0/12.0	1.15	F	89.5%	17"	01036OT3E213T-S	33HP24
	1770	213/5T	208-230/460	24.8/12.4	1.15	F	91.7%	17¾"	01018OT3E215T-S	33HP20
15	3535	213/5T	230/460	34.4/17.2	1.15	F	90.2%	17¾"	01536OT3E215T-S	33HP26
	1775	254/6T	230/460	37.2/18.6	1.15	F	93.0%	20½"	01518OT3E254T-S	33HM95
Cast-Iron Frame										
20	3520	254T	230/460	49.2/24.6	1.15	F	91.0%	20 11/16"	02036OT3E254T-W40	1XTX3
	1770	256T	230/460	49.4/24.7	1.15	F	93.0%	22⅜"	02018OT3E256T-W40	1XTX2
25	3530	256T	230/460	59.6/29.8	1.15	F	91.7%	22⅜"	02536OT3E256T-W40	1XTX5
	1770	284T	230/460	59.8/29.9	1.15	F	93.6%	23⅜"	02518OT3E284T-W40	1XTX4
30	3540	284TS	230/460	70.4/35.2	1.15	F	92.4%	22"	03036OT3E284TS-W40	1XTX7
	1775	286T	230/460	70.8/35.4	1.15	F	94.1%	24⅞"	03018OT3E286T-W40	1XTX6
40	3535	286TS	230/460	94.2/47.1	1.15	F	93.0%	23½"	04036OT3E286TS-W40	1XTX9
	1775	324T	230/460	96.4/48.2	1.15	F	94.1%	26 3/16"	04018OT3E324T-W40	1XTX8
50	3555	324TS	230/460	118.0/59.1	1.15	F	93.6%	24 11/16"	05036OT3E324TS-W40	1XTY2
	1775	326T	230/460	122.8/61.4	1.15	F	94.5%	27 11/16"	05018OT3E326T-W40	1XTY1
60	3555	326TS	230/460	142.0/71.0	1.15	F	93.6%	26 3/16"	06036OT3E326TS-W40	1XTY4
	1780	364T	230/460	140.0/69.9	1.15	F	95.0%	29¾"	06018OT3E364T-W40	1XTY3
75	3550	364TS	230/460	163.0/81.5	1.15	F	94.1%	27⅝"	07536OT3E364TS-W40	1XTY6
	1780	365T	230/460	171.0/85.5	1.15	F	95.0%	29¾"	07518OT3E365T-W40	1XTY5
100	3550	365TS	230/460	222.0/111.0	1.15	F	94.5%	27⅝"	10036OT3E365TS-W40	1XTZ6
	1780	404T	230/460	230.0/115.0	1.15	F	95.4%	34⅛"	10018OT3E404T-W40	1XTY7
125	3550	404TS	230/460	72.0/136.0	1.15	F	94.5%	31⅛"	12536OT3E404TS-W40	1XTZ7
	1780	405T	230/460	284.0/143.0	1.15	F	95.4%	34⅛"	12518OT3E405T-W40	1XTY8
150	3555	405TS	230/460	162.0	1.15	F	94.5%	31⅛"	15036OT3G405TS	1XTZ8
	1785	444T	230/460	166.0	1.15	F	95.8%	39 13/16"	15018OT3G444T	1XTY9
200	3575	444TS	230/460	223.0	1.15	F	95.0%	36 1/16"	20036OT3G444TS	1XTZ9
	1780	445T	230/460	223.0	1.15	F	95.8%	39 13/16"	20018OT3G445T	1XTZ1

WEG NEMA Premium

3-Phase Open Dripproof Rigid Base Motors

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460 (usable at 208V)
- Insulation: Class F motors have Class B temp. rise for longer life
- Inverter rated
- Bearings: ball, regreasable on 254T frame and above
- Max. ambient temp.: 40°C
- 150 HP and up are part-winding start capable
- Warranty: 56 frame 1½ yr., 140T and above 3 yr.

Corrosion-resistant finish. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. Suitable for clean, dry, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. UL Recognized and CSA Certified. Cast-iron frames are also CE Certified.

Note: Motors in a 143T frame and above are nameplated 60/50 Hz, and maintain nameplate HP rating at 50 Hz.

Shaft Grounding Rings

AEGIS® SGR BEARING PROTECTION RING

Help extend motor life by safely diverting harmful VFD-induced shaft voltages away from motor's bearings to ground. Protect both motor bearings and the bearings in attached equipment. Aluminum construction. Include mounting brackets.

Fits Shaft Dia.	For Use With	1-PIECE Item No.	SPLIT RING Item No.
Grounding Rings			
5/8"	Motor Frame 56	14R028	41D790
7/8"	Motor Frames 143T, 145T	14R029	41D791
1 1/8"	Motor Frames 182T, 184T	14R030	41D792
1 3/8"	Motor Frames 213T, 215T	14R031	41D793
1 5/8"	Motor Frames 254T, 256T, 284TS, 286TS	14R032	41D794
1 7/8"	Motor Frames 284T, 286T, 324TS, 326TS, 364TS, 365TS	14R033	41D795
2 1/8"	Motor Frames 324T, 326T, 404TS, 405TS	14R034	41D796
2 3/8"	Motor Frames 364T, 365T, 444TS, 445TS, 447TS, 449TS	14R035	41D797
2 7/8"	Motor Frames 404T, 405T	14R036	41D798
3 3/8"	Motor Frames 444T, 445T, 447T, 449T	—	41D799
Conductive Mounting Epoxy			
5 min., 0.50 oz.		14C789	—


No. 14R028


No. 41D790



No. 35JF93



No. 6AHZ5

WEG NEMA Premium

3-Phase Totally Enclosed Fan-Cooled Rigid Base Motors

- Rotation: CW/CCW
- Thermal protection: none
- 230/460V; 125 HP and above are 460V
- Service factor: 1.15 for Rolled Steel and Cast-Iron 125 HP and up; 1.25 for Cast-Iron to 100 HP and Premium
- Insulation: Class F motors have Class B temperature rise for longer life
- Inverter rated
- Bearings: ball, regreasable on 254T frame and above
- Max. ambient temp.: 40°C
- Usable at 208V
- 125 HP and above are part-winding start
- Warranty: 56 frame 1½ yr., 140T and above 3 yr.

Corrosion-resistant finish. V-ring slingers on both endshields block debris from entering bearing cavity. Automatic pressure-compensated drain plugs. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. Not for cooling tower applications. Suitable for dusty, dirty, nonhazardous applications with pumps, ventilation equipment, machine tools, and other industrial equipment. Motors meet IP55 enclosure ratings and can be operated in moist to wet environments. Cast-iron models offer 50 Hz operation on 190/380V at rated HP and 5/6 of 60 Hz rpm. Severe-duty rated. Rolled Steel Frames are UL Recognized and CSA Certified; Cast-Iron Frames are UL Recognized, CSA and CE Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Item No.
Rolled Steel Frame						
¼	3475	56	1.0-0.91/0.45	57.5%	11⅛"	**35JF93**
	1765	56	1.1-1.0/0.52	70.0%	11⅛"	**35JF94**
⅓	3485	56	1.3-1.2/0.60	62.0%	11⅛"	**35JF95**
	1765	56	1.3-1.2/0.62	74.0%	11½"	**35JF96**
½	1160	56	2.1-1.9/0.99	72.0%	12⁵⁄₁₆"	**35JF88**
¾	3475	56	2.5-2.2/1.1	72.0%	11½"	**35JF89**
	1155	56	2.9-2.6/1.3	75.5%	12¾"	**35JF91**
1	3435	56	3.0/1.5	78.5%	11⅛"	**52XR33**
Cast-Iron Frame						
1	3485	143T	2.7/1.3	84.0%	12⅜"	**39J093**
	1760	143T	2.8/1.4	85.5%	12⅜"	**6AHZ7**
	1150	145T	3.4/1.7	82.5%	13⅜"	**6AHZ6**
	875	182T	4.6/2.3	78.5%	14⅞"	**6AHZ5**
1½	3490	143T	3.8/1.9	84.0%	12⅜"	**6AHZ9**
	3485	143T	3.9/1.9	86.5%	12⅜"	**39J095**
	1760	145T	3.9/1.9	88.5%	14⅝"	**39J096**
	1755	145T	4.0/2.0	86.5%	13⅜"	**6AJA0**
	1165	182T	4.7/2.4	87.5%	14⅞"	**6AHZ8**
	860	182/4T	5.4/2.7	82.5%	15⅛"	**6AJA1**
2	3490	145T	5.1/2.6	87.5%	13⅜"	**39J097**
	3480	145T	5.0/2.5	85.5%	13⅜"	**6AJA5**
	1760	145T	5.3/2.6	88.5%	14⅜"	**39J098**
	1750	145T	5.2/2.6	86.5%	13⅜"	**6AJA4**
	1165	184T	6.4/3.2	88.5%	15⅛"	**6AJA3**
	870	213T	6.7/3.4	85.5%	18"	**6AJA2**
3	3520	182T	7.3/1.6	88.5%	14⅞"	**39J099**
	3510	182T	7.2/3.6	86.5%	14⅞"	**6AJA9**
	1765	182T	7.5/3.8	91.0%	16"	**39J101**
	1760	182T	7.7/3.8	89.5%	14⅞"	**6AJA8**
	1175	213T	8.6/4.3	90.2%	19½"	**39J102**
	1170	213T	8.8/4.4	89.5%	18"	**6AJA7**
	865	215T	9.1/4.5	85.5%	19½"	**6AJA6**
5	3505	184T	12.0/6.0	90.2%	15⅞"	**39J103**
	3500	184T	11.8/5.9	88.5%	15⅞"	**6AJC3**
	1755	184T	12.9/6.4	89.5%	15⅞"	**6AJC2**
	1755	184T	12.8/6.4	91.0%	17"	**39J104**
	1170	215T	13.6/6.8	91.0%	20⅞"	**39J105**
	1160	215T	13.7/6.8	89.5%	19½"	**6AJC1**
	880	254T	15.2/7.5	87.5%	23¼"	**6AJC0**
7½	3530	213T	17.6/8.8	91.0%	18"	**39J106**
	3520	213T	17.5/8.7	89.5%	18"	**6AJC6**
	1765	213T	18.0/9.0	91.7%	18"	**6AJC5**
	1175	254T	19.0/9.4	91.0%	23¼"	**6AJC4**
	1175	254T	18.9/9.5	92.4%	23¼"	**39J108**
10	3535	215T	23.0/11.5	91.7%	19½"	**39J109**
	3515	215T	23.2/11.6	90.2%	19½"	**6AJC9**
	1765	215T	24.0/12.0	93.0%	20⅞"	**39J110**
	1760	215T	24.8/12.4	91.7%	19½"	**6AJC8**
	1180	256T	25.4/12.7	92.4%	25"	**39J111**
	1175	256T	25.8/12.9	91.0%	25"	**6AJC7**
15	3545	254T	34.8/17.4	92.4%	23¼"	**39J112**
	3530	254T	34.4/17.2	91.0%	23¼"	**6AJD2**
	1775	254T	35.6/17.8	93.6%	23¼"	**39J113**
	1765	254/6T	36.0/18.0	92.4%	23¼"	**6AJD1**
	1180	284T	36.2/18.1	93.0%	26⅜"	**39J114**
	1175	284T	35.8/17.9	91.7%	26⁷⁄₁₆"	**6AJD0**
20	3545	256T	46.0/23.0	93.0%	25"	**39J115**
	3520	256T	46.4/23.2	91.0%	24¹⁵⁄₁₆"	**6AJD5**
	1770	256T	49.4/24.7	94.1%	25"	**39J116**
	1765	256T	48.8/24.4	93.0%	24¹⁵⁄₁₆"	**6AJD4**
	1180	286T	48.8/24.4	93.0%	27⅛"	**39J117**
	1175	286T	8.4/24.2	91.7%	27¹⁵⁄₁₆"	**6AJD3**
25	3550	284TS	57.0/28.5	93.6%	25"	**39J118**
	3535	284TS	57.0/28.5	91.7%	25¹⁄₁₆"	**6AJD8**
	1775	284T	60.6/30.3	94.5%	26⅜"	**39J119**
	1765	284T	59.0/29.5	93.6%	26⁷⁄₁₆"	**6AJD7**
	1185	324T	61.6/30.8	94.1%	29⅝"	**39J120**
	1180	324T	60.8/30.4	93.0%	29⅝"	**6AJD6**
30	3550	286TS	67.0/33.5	93.6%	26½"	**39J121**
	3535	286TS	67.6/33.8	91.7%	26⁹⁄₁₆"	**6AJE1**
	1775	286T	71.2/35.6	94.5%	27⅞"	**39J122**
	1765	286T	70.2/35.1	93.6%	27¹⁵⁄₁₆"	**6AJE0**
	1185	326T	73.4/36.7	94.1%	31⅛"	**39J123**
	1180	326T	71.6/35.8	93.0%	31⅛"	**6AJD9**
40	3565	324TS	93.0/46.5	94.1%	28⅛"	**39J124**
	3555	324TS	91.6/45.8	92.4%	28⅛"	**6AJE4**
	1780	324T	97.8/48.9	95.0%	29⅝"	**39J125**
	1775	324T	96.4/48.2	94.1%	29⅝"	**6AJE3**
	1185	364/5T	97.8/48.9	95.0%	34¼"	**39J126**
	1180	364/5T	93.0/46.5	94.1%	34¼"	**6AJE2**
50	3570	326TS	114.0/57.1	94.5%	29⅝"	**39J127**
	3550	326TS	112.0/56.1	93.0%	29⅝"	**6AJE7**
	1780	326T	120.0/60.1	95.4%	31⅛"	**39J128**
	1775	326T	118.0/59.2	94.5%	31⅛"	**6AJE6**
	1185	364/5T	121.0/60.3	95.0%	34¼"	**39J129**
	1180	364/5T	115.0/57.4	94.1%	34¼"	**6AJE5**
60	3570	364/5TS	134.0/66.8	95.0%	32¼"	**39J130**
	3560	364/5TS	134.0/67.0	93.6%	32¼"	**6AJF0**
	1780	364/5T	140.0/70.2	95.8%	34¼"	**39J131**
	1775	364/5T	137.0/68.3	95.0%	34¼"	**6AJE9**
	1185	404/5T	144.0/72.2	95.4%	39¾"	**39J132**
	1180	404/5T	139.0/69.5	94.5%	39¾"	**6AJE8**
75	3570	364/5TS	165.0/82.6	95.0%	32¼"	**39J133**
	3555	364/5TS	164.0/81.9	93.6%	32¼"	**6AJF3**
	1780	364/5T	174.0/86.8	95.8%	34¼"	**39J134**
	1775	364/5T	168.0/84.1	95.4%	34¼"	**6AJF2**
	1190	404/5T	179.0/89.3	95.4%	39¾"	**39J135**
	1180	404/5T	170.0/84.9	94.5%	39¾"	**6AJF1**
100	3570	404/5TS	222.0/111.0	95.4%	36¾"	**39J136**
	3555	404/5TS	220.0/110.0	94.1%	36¾"	**6AJF6**
	1780	404/5T	232.0/116.0	96.2%	39¾"	**39J137**
	1775	404/5T	222.0/111.0	95.4%	39¾"	**6AJF5**
	1190	444/5T	248.0/124.0	95.8%	45"	**39J138**
	1185	444/5T	242.0/121.0	95.0%	45"	**6AJF4**
125	3580	444/5TS	136.0	95.8%	41¼"	**39J139**
	3570	444/5TS	134.0	95.0%	41¹⁄₁₆"	**6AJF9**
	1785	444/5T	144.0	96.2%	45"	**39J140**
	1780	444/5T	139.0	95.4%	45"	**6AJF8**
	1190	444/5T	152.0	95.8%	45"	**39J141**
	1185	444/5T	143.0	95.0%	44¹⁵⁄₁₆"	**6AJF7**
150	3580	444/5TS	163.0	96.2%	41¼"	**39J142**
	3570	444/5TS	161.0	95.0%	41¼"	**6AJG1**
	1785	444/5T	170.0	96.5%	45"	**39J143**
	1780	444/5T	170.0	95.8%	44¹⁵⁄₁₆"	**6AJG0**
	1190	447/9T	179.0	96.2%	56⅜"	**39J144**
200	3575	445/7TS	217.0	96.2%	45"	**39J145**
	3570	445/7TS	219.0	95.4%	44¹⁵⁄₁₆"	**6AJG3**
	1785	447/9T	234.0	96.8%	56⅜"	**39J146**
	1780	445/7T	230.0	96.2%	48¾"	**6AJG2**
	1190	447/9T	245.0	96.2%	56⅜"	**39J147**
250	3575	445/7TS	267.0	96.5%	45"	**39J148**
	1785	447/9T	286.0	96.8%	56⅜"	**39J149**

Dayton NEMA Premium

3-Phase Face-Base and Face-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460V (usable at 208V)
- Insulation: Class F, except Nos. 3N841 and 3N842 are B
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C
- Warranty: 1 yr.

UL Recognized and CSA Certified.



Open Dripproof, Face/Base-Mount



Totally Enclosed Fan-Cooled, Face-Mount



Totally Enclosed Fan-Cooled, Face/Base-Mount

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Nom. Efficiency	Overall Length	Item No.	
Open Dripproof, Face-Mount, NEMA Premium Efficient								
	3520	56C	0.80/0.40	1.35	72.0%	10 5/16"	**31LH36**	†
¼	1765	56C	1.1/0.53	1.35	69.5%	9 15/16"	**31LH37**	†
	1160	56C	1.1/0.55	1.35	67.5%	10 5/16"	**31LH38**	†
	3510	56C	1.1/0.60	1.35	72.0%	10 5/16"	**31LH39**	†
⅓	1765	56C	1.3/0.68	1.35	73.4%	10 5/16"	**31LH40**	†
	1160	56C	1.5/0.76	1.35	71.4%	10 5/16"	**31LH41**	†
	3490	56C	1.6/0.81	1.25	73.4%	10 5/16"	**31LH42**	†
½	1765	56C	1.7/0.86	1.25	78.2%	10 11/16"	**31LH43**	†
	1155	56C	2.0/0.99	1.25	72.0%	10 11/16"	**31LH44**	†
	3485	56C	2.3/1.1	1.25	76.8%	10 11/16"	**31LH45**	†
¾	1760	56C	2.3/1.2	1.25	81.1%	11 1/8"	**31LH46**	†
	1150	56C	2.6/1.3	1.15	81.7%	11 1/2"	**31LH47**	†
	3470	56C	3.0/1.5	1.25	77.0%	10 11/16"	**31LH48**	†
1	1760	143/5TC	3.2/1.6	1.15	85.5%	11 9/16"	**36VF45**	*†
	1760	56C	3.1/1.6	1.15	83.5%	11 1/2"	**31LH49**	†
	1140	145TC	3.3/1.7	1.15	82.5%	12 1/4"	**4THU1**	*
	3510	56C	3.7/1.9	1.15	84.0%	10 11/16"	**31LH50**	†
1½	3465	143/5TC	3.7/1.8	1.15	84.0%	11 9/16"	**36VF46**	*†
	1760	56C	4.3/2.1	1.15	86.5%	13 1/16"	**31LH51**	†
	1755	143/5TC	4.3/2.2	1.15	86.5%	11 9/16"	**36VF47**	*†
	3500	143/5TC	5.0/2.5	1.15	85.5%	11 9/16"	**36VF48**	*†
2	1745	143/5TC	5.8/2.9	1.15	86.5%	12"	**36VF49**	*†
	1740	56C	5.4/2.7	1.15	86.5%	13 1/16"	**31LH52**	†
3	3475	143/5TC	7.3/3.6	1.15	85.5%	12"	**36VF50**	*†
	1750	182TC	8.3/4.2	1.15	89.5%	16 1/4"	**11W342**	*
Open Dripproof, Face/Base-Mount, NEMA Premium Efficient								
¼	1720	56C	1.0/0.50	1.35	69.5%	9 15/16"	**31LH54**	†
	3510	56C	1.1/0.60	1.35	72.0%	10 5/16"	**31LH56**	†
⅓	1765	56C	1.3/0.68	1.35	73.4%	10 5/16"	**31LH57**	†
	1140	56C	1.5/0.70	1.35	71.4%	10 5/16"	**31LH58**	†
	3490	56C	1.6/0.81	1.25	73.4%	10 5/16"	**31LH59**	†
½	1765	56C	1.7/0.86	1.25	78.2%	10 11/16"	**31LH60**	†
	1155	56C	2.0/0.99	1.25	75.3%	10 11/16"	**31LH61**	†
	3485	56C	2.3/1.1	1.25	76.8%	10 11/16"	**31LH62**	†
¾	1760	56C	2.3/1.2	1.25	81.1%	11 1/8"	**31LH63**	†
	1160	56HC	2.5/1.3	1.15	81.7%	11 1/2"	**31LH64**	†
	3520	143-5TC/56HCZ	2.9/1.5	1.15	80.0%	13 1/4"	**31TU22**	†
	3470	56C	3.0/1.5	1.25	77.0%	10 11/16"	**31LH65**	†
1	1760	143/5TC	3.0/1.5	1.15	85.5%	11 9/16"	**36VF51**	
	1760	56HC	3.1/1.6	1.15	83.5%	11 1/2"	**31LH66**	†
	1755	143-5TC/56HCZ	3.1/1.5	1.15	85.5%	13 1/4"	**31TU23**	†
	1165	143-5TC/56HCZ	4.0/2.0	1.15	82.5%	13 1/4"	**31TU24**	†
	3525	143-5TC/56HCZ	3.8/1.9	1.15	85.5%	13 1/4"	**31TU25**	†
	3510	56C	3.7/1.9	1.15	84.0%	10 11/16"	**31LH67**	†
1½	1760	56HC	4.3/2.1	1.15	86.5%	13 1/16"	**31LH68**	†
	1760	143/5TC	4.1/2.0	1.15	86.5%	12 3/8"	**36VF52**	
	1750	143-5TC/56HCZ	4.2/2.1	1.15	86.5%	13 1/4"	**31TU26**	†
	3515	143-5TC/56HCZ	5.0/2.5	1.15	85.5%	13 1/4"	**31TU27**	†
	3510	56HC	4.8/2.4	1.15	85.5%	12 11/16"	**31LH69**	†
	3510	56HC	4.8/2.4	1.15	85.5%	12 11/16"	**31LH70**	†
2	3450	143/5TC	5.0/2.5	1.15	86.5%	12"	**36VF12**	
	1745	143-5TC/56HCZ	5.6/2.8	1.15	86.5%	13 1/4"	**31TU28**	†
	1740	56HC	5.4/2.7	1.15	86.5%	13 1/16"	**31LH71**	†
	1740	143/5TC	5.3/2.6	1.15	86.5%	12 3/8"	**36VF53**	
	3490	143-5TC/56HCZ	7.4/3.7	1.15	85.5%	13 1/4"	**31TU29**	†
3	3450	143/5TC	7.1/3.5	1.15	85.5%	12 3/8"	**36VF13**	
	1750	143-5TC/56HCZ	7.6/3.8	1.15	89.5%	15 1/4"	**31TU30**	†
Totally Enclosed Fan-Cooled, Face-Mount, NEMA Premium Efficient								
¼	3460	56C	0.76/0.38	1.15	74.0%	11 15/16"	**36VF14**	
⅓	3500	56C	1.2-1.1/0.55	1.15	69.5%	11 9/16"	**36VF56**	
½	3530	56C	1.4/0.70	1.15	73.4%	12 5/16"	**36VF15**	
¾	3520	56C	2.2/1.1	1.15	76.8%	11 15/16"	**36VF16**	
	3520	56C	2.8/1.4	1.15	77.5%	12 5/16"	**36VF61**	*†
	1765	56C	2.94/1.47	1.15	85.5%	13 53/64"	**48ZK02**	
1	1760	143/5TC	3.1/1.5	1.15	85.5%	13 3/8"	**36VF63**	*†
	1145	56C	3.3/1.6	1.15	82.5%	13 1/2"	**36VF64**	*†
	1140	145TC	3.3/1.7	1.15	82.5%	13 7/8"	**4THX5**	*
	3480	143/5TC	3.8/1.9	1.15	84.0%	13 3/8"	**36VF66**	*†
	3470	56C	4.0/2.0	1.15	84.0%	12 5/16"	**36VF65**	*†
1½	1760	143/5TC	4.3/2.1	1.15	86.5%	13 3/8"	**36VF68**	*†
	1750	56C	4.4/2.2	1.15	86.0%	13 1/8"	**36VF67**	*†
	1170	182/4TC	4.44/2.22	1.15	87.5%	16 21/64"	**48ZK04**	
	3500	143/5TC	5.1/2.5	1.15	85.5%	13 3/8"	**36VF70**	*†
2	3480	56C	5.2/2.6	1.15	85.5%	13 1/8"	**36VF69**	*†
	1755	143/5TC	5.9/2.9	1.15	86.5%	13 13/16"	**36VF72**	*†
	1745	56C	5.7/2.8	1.15	86.5%	13 1/2"	**36VF71**	*†
3	3480	143/5TC	7.1/3.5	1.15	86.5%	14 3/8"	**36VF73**	*†
	1765	182/4TC	7.6/3.8	1.15	89.5%	17 29/32"	**48ZK01**	

HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Nom. Efficiency	Overall Length	Item No.	
Totally Enclosed Fan-Cooled, Face-Mount, Standard Efficient								
¼	1725	42CZ	1.2/0.60	1.15	66.0%	9 3/16"	**3N841**	*
	1160	56C	1.0/0.55	1.15	68.0%	11 9/16"	**36VF55**	
	1765	56C	1.2/0.62	1.15	74.0%	11 9/16"	**36VF57**	
⅓	1725/1425	42CZ	1.5/0.75	1.15	70.7%	10 7/16"	**3N842**	*
	1140	56C	1.5/0.70	1.15	70.0%	12 1/8"	**4THW4**	*
½	1760	56C	1.7/0.86	1.15	77.0%	11 9/16"	**36VF58**	
	1160	56C	1.9/0.99	1.15	72.0%	12 5/16"	**36VF59**	
¾	1755	56C	2.4/1.2	1.15	78.5%	11 15/16"	**36VF60**	
	1135	56C	3.0/1.5	1.15	75.5%	12 7/8"	**4THW8**	*
Totally Enclosed Fan-Cooled, Face/Base-Mount, NEMA Premium Efficient								
¼	3460	56C	0.76/0.38	1.15	74.0%	11 15/16"	**36VF17**	
½	3435	56C	1.57/0.78	1.15	72.5%	11 9/16"	**36VF76**	
¾	3520	56C	2.2/1.1	1.15	76.8%	11 15/16"	**36VF79**	
	3525	143-5TC/56HCZ	2.7/1.4	1.15	81.5%	13 1/8"	**31TU31**	†
	3520	56C	2.8/1.4	1.15	77.5%	12 5/16"	**36VF81**	*†
	1765	56HC	2.94/1.47	1.15	85.5%	13 57/64"	**48ZK03**	
1	1765	143/5TC	2.9/1.4	1.15	85.5%	13 3/8"	**36VF83**	
	1755	143-5TC/56HCZ	3.0/1.5	1.25	85.5%	13 1/8"	**31TU32**	†
	1155	143-5TC/56HCZ	3.5/1.8	1.25	82.5%	13 1/8"	**31TU33**	†
	1145	56C	3.3/1.6	1.15	82.5%	13 1/2"	**36VF84**	*†
	1145	143/5TC	3.1/1.5	1.15	82.5%	13 3/8"	**36VF85**	
	3510	143/5TC	3.8/1.9	1.15	85.5%	13 3/16"	**36VF87**	
	3505	143-5TC/56HCZ	3.9/1.9	1.25	84.0%	13 1/8"	**31TU34**	†
	3470	56C	3.8/1.9	1.15	84.0%	12 5/16"	**36VF86**	*†
1½	1755	143-5TC/56HCZ	4.3/2.1	1.25	86.5%	13 1/8"	**31TU35**	†
	1750	56C	4.4/2.2	1.15	86.5%	13 1/8"	**36VF88**	*†
	1750	143/5TC	4.0/2.0	1.15	86.5%	13 3/8"	**36VF89**	
	1170	182TC	4.4/2.2	1.15	87.5%	16 9/16"	**11W369**	*
	3505	143/5TC	5.1/2.6	1.15	86.5%	13 7/8"	**4TJA8**	*
	3505	143-5TC/56HCZ	4.9/2.5	1.25	86.5%	13 1/8"	**31TU36**	†
2	3480	56HC	5.2/2.6	1.15	85.5%	13 1/8"	**36VF90**	*†
	1750	143-5TC/56HCZ	5.7/2.9	1.25	86.5%	13 1/8"	**31TU37**	†
	1745	56HC	5.7/2.8	1.15	86.5%	13 1/2"	**36VF21**	*†
	1745	143/5TC	5.4/2.7	1.15	86.5%	14"	**36VF20**	
	3490	143/5TC	7.1/3.5	1.15	86.5%	15 3/16"	**36VF91**	
3	3490	143-5TC/56HCZ	7.2/3.6	1.25	86.5%	13 1/8"	**31TU38**	†
	1765	182/4TC	7.6/3.8	1.15	89.5%	17 15/16"	**36VF22**	
Totally Enclosed Fan-Cooled, Face/Base-Mount, Standard Efficient								
¼	1720	56C	1.0/0.50	1.15	68.0%	10 9/16"	**11W365**	*
	1160	56C	1.0/0.55	1.15	68.0%	11 1/8"	**36VF18**	
⅓	1765	56C	1.2/0.62	1.15	74.0%	11 9/16"	**36VF75**	
	1140	56C	1.5/0.70	1.15	68.0%	12 1/8"	**11W368**	*
½	1760	56C	1.7/0.86	1.15	77.0%	11 9/16"	**36VF77**	
	1160	56C	1.9/0.99	1.15	72.0%	12 5/16"	**36VF78**	
¾	1720	56C	2.4/1.2	1.15	78.5%	11 15/16"	**36VF80**	
	1135	56C	3.0/1.5	1.15	75.5%	12 13/16"	**4THZ5**	*
Totally Enclosed Nonventilated, Face-Mount, Standard Efficient								
¼	1780	56C	1.40/0.70	1.15	68.5%	10 11/16"	**36VF54**	

** 60/50 Hz. † Usable at 200V at 1.0 SF.*



Open Dripproof, Face-Mount



TEFC, Face-Mount



TEFC, Face/Base-Mount



TENV, Face-Mount

marathon™ Motors

3-Phase Face- and Face/Base-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Frame material: steel
- Bearings: ball
- Max. ambient temp.: 40°C
- Usable at 208V

Use in pumps, speed reducers, machine tools, and other shaft-end-mounted industrial equipment applications. Open dripproof enclosures are for use in clean, dry, nonhazardous applications. Totally enclosed fan-cooled enclosures are for use in dusty or dirty applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Overall Length	Item No.	
Open Dripproof, Face-Mount										
1/3	3450	56C	230/460	1.8/0.90	1.75	B	61.0%	9 7/8"	**3N817**	
1/2	3450	56C	230/460	2.0/1.0	1.60	B	69.8%	10 5/16"	**6MA11**	
3/4	3450	56C	230/460	2.6/1.3	1.50	B	74.0%	10 11/16"	**3N819**	
1	3450	56C	230/460	3.2/1.6	1.40	B	74.0%	11 5/16"	**3N820**	
1 1/2	3450	56C	230/460	4.8/2.4	1.30	B	80.0%	10 3/4"	**3N821**	
2	3450	56C	230/460	6.0/3.0	1.20	B	80.0%	11 5/16"	**3N822**	
3	3510	145TC	230/460	7.6/3.8	1.15	B	86.5%	13"	**52XR47**	*#
	3450	56C	208-230/460	8.2/4.1	1.15	B	84.0%	12 5/8"	**3N823**	
	1760	182TC	230/460	8.0/4.0	1.15	F	87.5%	13 3/4"	**52XR52**	*#
Open Dripproof, Face/Base-Mount										
2	1750	145TC	230/460	6.0/3.0	1.15	B	86.5%	14"	**53UF35**	*#
Totally Enclosed Fan-Cooled, Rigid Base-Mount										
3/4	3450	56C	208-230/460	3.0-3.2/1.6	1.15	B	85.5%	11 13/16"	**41W522**	
Totally Enclosed Fan-Cooled, Face-Mount										
1/3	1725	56C	208-230/460	1.5-1.6/0.80	1.00	B	68.8%	10 9/16"	**3N686**	
1/2, 1/3	3600	56C	208-230/460	2.1-2.2/1.1/2.0/1.0	1.15	B	66.0%	11 7/8"	**30E449**	
1/2	1725	56C	230/460	2.2/1.1	1.25	B	75.5%	10 15/16"	**3N687**	*
3/4	1725	56C	230/460	2.8/1.4	1.25	B	78.5%	11 3/8"	**3N688**	
1	1755	143TC	230/460	3.3/1.7	1.15	F	85.5%	16 1/2"	**53UF03**	#
1, 3/4	1725	56C	230/460	3.3/1.6	1.25	B	85.5%	14 1/8"	**53UF25**	*#
1 1/2	3450	56C	230/460	4.0/2.0	1.30	B	78.5%	13 5/16"	**53DE53**	*#
	1725	56C	230/460	4.6/2.3	1.15	B	86.5%	14 3/8"	**53DE17**	*#
2	3450	56C	230/460	5.0/2.5	1.25	F	85.5%	14 5/16"	**53DE74**	*#
Totally Enclosed Fan-Cooled, Face/Base-Mount										
1/4	1140	56C	208-230/460	2.0/1.0	1.15	F	86.5%	11 1/4"	**30E461**	*†
1/3	1725	56C	208-230/460	1.6/0.80	1.35	B	69.2%	11"	**6N055**	*
	1140	56C	208-230/460	2.2/1.1	1.15	F	86.5%	11 1/4"	**30E462**	*†
1/2	3450	56C	208-230/460	2.2/1.1	1.25	B	85.5%	11 3/4"	**30E441**	†
	3450	56C	208-230/460	2.0-2.2/1.1	1.15	F	86.5%	11 13/16"	**41W478**	
	1725	56C	230/460	2.2/1.1	1.25	B	74.7%	11"	**6N057**	*
	1140	56C	208-230/460	2.7/1.35	1.15	F	86.5%	11 7/8"	**30E463**	*†
3/4	3450	56C	230/460	3.2/1.6	1.15	F	86.5%	11 7/8"	**30E457**	*†
	1725	56C	230/460	3.0/1.5	1.25	B	70.8%	11 7/16"	**5N115**	*
	1140	56C	230/460	3.2/1.6	1.15	F	86.5%	12 1/4"	**30E464**	*†
1, 3/4	1725	56C	230/460	3.3/1.6	1.25	B	86.5%	14 1/8"	**53DE43**	*#
1 1/2	3450	56C	230/460	4.0/2.0	1.15	F	85.5%	13 5/16"	**53DE13**	*#
2	3450	56C	230/460	5.0/2.5	1.15	B	86.5%	14 5/16"	**53UF13**	*#
	3450	56C	230/460	5.0/2.5	1.15	F	85.5%	14 5/16"	**53DE14**	*#
	1725	56HC	230/460	6.0/3.0	1.15	B	85.5%	15 1/8"	**53UF33**	*#
3	3515	182TC	230/460	7.6/3.8	1.15	F	87.5%	14 1/2"	**30E454**	*†#
	1770	182TC	230/460	7.8/3.9	1.15	F	88.5%	14 1/2"	**30E455**	*†#
Totally Enclosed Nonventilated, Face-Mount										
1/4	1725	56C	208-230/460	1.2/0.60	1.35	B	67.4%	9 1/2"	**5N114**	
Totally Enclosed Nonventilated, Face/Base-Mount										
1/3	3450	56C	208-230/460	1.8/0.90	1.15	F	85.5%	10 7/16"	**30E456**	*†

**** 60/50 Hz. † Removable base. # NEMA Premium® energy-efficient motors.***

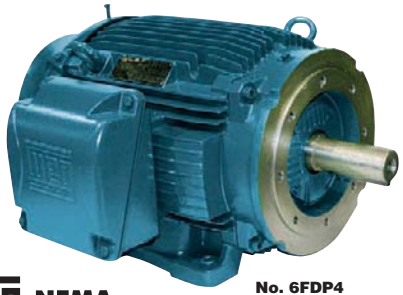
FACILITY AUDIT

The Grainger Energy Services Team is your resource to help identify and implement efficient energy solutions for your business. Schedule your facility audit to learn how much you can save with Grainger Energy Services.

> Visit **grainger.com/energyservices**



HP	Nameplate RPM	Frame	Full Load Amps	Service Factor	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
Cast-Iron Frame, Open Dripproof								
20	1770	256TC	49.4/24.7	1.15	93.0%	22⅜"	02018OT3E256TC-W40	**12N922**
25	1770	284TC	59.8/29.9	1.15	93.6%	23⅜"	02518OT3E284TC-W40	**12N924**
30	1770	286TC	35.4/15.3	1.15	94.1%	24⅞"	03018OT3E286TC-W40	**12N926**
Rolled Steel Frame, Open Dripproof								
1½	1760	143/5TC	4.1/2.1	1.15	86.5%	12 1⁄16"	00158OT3E145TC-S	**33HN92**
5	1760	182/4TC	12.7/6.3	1.15	89.5%	16 5⁄16"	00518OT3E184TC-S	**33HP09**
7½	1770	213/5TC	18.5/9.3	1.15	91.0%	16 9⁄16"	00718OT3E213TC-S	**33HP15**
10	1770	213/5TC	24.8/12.4	1.15	91.7%	17¾"	01018OT3E215TC-S	**33HP21**
15	1775	254/6TC	37.2/18.6	1.15	93.0%	20½"	01518OT3E254TC-S	**33HN04**
Cast-Iron Frame, Totally Enclosed Fan-Cooled								
1	3495	143TC	2.8/1.4	1.25	78.5%	12⅜"	00136ET3E143TC-W22	**6FDP4**
	1760	143TC	2.8/1.4	1.25	85.5%	12⅜"	00118ET3E143TC-W22	**6PTP7**
1½	3490	143TC	3.8/1.9	1.25	84.0%	12⅜"	00156ET3E143TC-W22	**6FDT0**
	1755	145TC	4.0/2.0	1.25	86.5%	13⅜"	00158ET3E145TC-W22	**6FDP5**
2	3480	145TC	5.0/2.5	1.25	85.5%	13⅜"	00236ET3E145TC-W22	**6FDP7**
	1750	145TC	5.2/2.6	1.25	86.5%	13⅜"	00218ET3E145TC-W22	**6FDP6**
3	3510	182TC	7.2/3.6	1.25	86.5%	14⅞"	00336ET3E182TC-W22	**6FDP9**
	1760	182TC	7.7/3.8	1.25	89.5%	14⅞"	00318ET3E182TC-W22	**6FDP8**
5	3500	184TC	11.8/5.9	1.25	88.5%	15⅞"	00536ET3E184TC-W22	**6FDR1**
	1755	184TC	12.9/6.4	1.25	89.5%	15⅞"	00518ET3E184TC-W22	**6FDR0**
7½	3520	213TC	17.5/8.7	1.25	89.5%	18"	00736ET3E213TC-W22	**6FDR3**
	1765	213TC	18.0/9.0	1.25	91.7%	18"	00718ET3E213TC-W22	**6FDR2**
10	3515	215TC	23.2/11.6	1.25	90.2%	19½"	01036ET3E215TC-W22	**6FDR5**
	1760	215TC	24.8/12.4	1.25	91.7%	19½"	01018ET3E215TC-W22	**6FDR4**
15	3530	254TC	34.4/17.2	1.25	91.0%	23¼"	01536ET3E254TC-W22	**6FDR7**
	1765	254/6TC	36.0/18.0	1.25	92.4%	23¼"	01518ET3E254TC-W22	**6FDR6**
20	3520	256TC	46.4/23.2	1.25	91.0%	25"	02036ET3E256TC-W22	**6FDR9**
	1765	256TC	48.2/24.1	1.25	93.0%	25"	02018ET3E256TC-W22	**6FDR8**
25	3535	284TSC	57.0/28.5	1.25	91.7%	25 1⁄16"	02536ET3E284TSC-W22	**6FDT1**
	1765	284TC	59.0/29.5	1.25	93.6%	26 1⁄16"	02518ET3E284TC-W22	**6FDT2**
30	3535	286TSC	67.6/33.8	1.25	91.7%	26 9⁄16"	03036ET3E286TSC-W22	**6FDT3**
	1765	286TC	70.2/35.1	1.25	93.6%	27 15⁄16"	03018ET3E286TC-W22	**6FDT4**
40	3555	324TSC	91.6/45.8	1.25	92.4%	28⅛"	04036ET3E324TSC-W22	**6FDT5**
	1775	324TC	96.4/48.2	1.25	94.1%	29⅝"	04018ET3E324TC-W22	**6FDT6**
50	3550	326TSC	112.0/56.1	1.25	93.0%	29⅝"	05036ET3E326TSC-W22	**6FDT7**
	1775	326TC	118.0/59.2	1.25	94.5%	31⅛"	05018ET3E326TC-W22	**6FDT8**
60	3560	364/5TSC	134.0/67.0	1.25	93.6%	32¼"	06036ET3E364TSC-W22	**6FDT9**
	1775	364/5TC	137.0/68.3	1.25	95.0%	34¼"	06018ET3E364TC-W22	**6FDU0**
75	3555	364/5TSC	164.0/81.9	1.25	93.6%	32¼"	07536ET3E365TSC-W22	**6FDU1**
	1775	364/5TC	168.0/84.1	1.25	95.4%	34¼"	07518ET3E365TC-W22	**6FDU2**



No. 6FDP4

WEG NEMA Premium

3-Phase Face/Base-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460 (usable at 208V)
- Insulation: Class F motors have Class B temperature rise for longer life
- Inverter rated
- Bearings: ball, regreasable 254TC frame and above
- Max. ambient temp.: 40°C

Corrosion-resistant finish. V-ring slingers on both endshields block debris from entering housing cavity. Automatic pressure-compensated drain plugs. Gasketed conduit boxes are threaded for easier installation. Stainless steel, laser-etched nameplate maintains information over long life. TEFC models are severe-duty rated. All models meet NEMA Premium® Standards and are UL Recognized and CSA Certified.

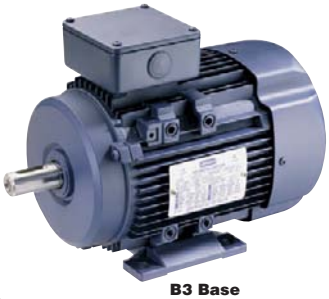
Note: Motors are nameplated 60/50 Hz and maintain nameplate HP rating at 50 Hz.

LEESON

3-Phase IEC Metric Rigid Base- and Face-Mount Motors

- Enclosure: IP55
- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460 at 60Hz, 200/400 at 50Hz
- Service factor: 1.15
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C

Steel fan cover and low-noise fan maximize airflow efficiency. Inverter-Rated Insulation System (IRIS™) provides protection against voltage spikes induced by variable frequency drives. V-seals on both drive end and nondrive end. Multimount repositionable feet (aluminum frame units only) allow 3 conduit box positions. Terminal boards included. Suitable as replacement motors for machine tools, textile machinery, and other equipment with metric dimensions. UL Recognized, CSA Certified, and CE Compliant.



B3 Base Mount



B3/B5 Base/ D-Flange Mount



B3/B14 Base/ C-Face Mount

HP	kW	Nom. Efficiency	Nameplate RPM	Full Load Amps	B3 BASE MOUNT Frame	Mfr. Model	Item No.	B3/B5 BASE/D-FLANGE MOUNT Frame	Mfr. Model	Item No.	B3/B14 BASE/C-FACE MOUNT Frame	Mfr. Model	Item No.
Cast Aluminum Frame													
¼	0.19	72.0%	3355	1.0/0.50	—	—	—	—	—	—	D63C	192017.00	**3GVP4**
	0.19	68.0%	1655	1.2/0.60	D63	192011.00	**2NB50**	—	—	—	D63C	192018.00	**2NE16**
⅓	0.25	72.0%	3355	1.2/0.60	—	—	—	—	—	—	D63C	192027.00	**2NE18**
	0.25	68.0%	1705	1.4/0.70	—	—	—	D71D	192025.00	**3GVN3**	D71C	192028.00	**2NE20**
½	0.25	70.0%	1135	1.4/0.70	D80	192022.00	**3GVK6**	—	—	—	—	—	—
	0.37	74.0%	3435	1.6/0.80	D71	192030.00	**3GVK7**	D71D	192034.00	**3GVN5**	D71C	192037.00	**3GVP7**
	0.37	74.0%	1650	2.0/1.0	D71	192031.00	**2NB52**	D71D	192035.00	**2NB76**	D71C	192038.00	**2NE22**
¾	0.56	74.0%	3455	2.4/1.2	D71	192040.00	**3GVK9**	D71D	192044.00	**2NB78**	D71C	192047.00	**3GVP9**
	0.56	74.0%	1715	2.4/1.2	D80	192041.00	**3GVL1**	D80D	192045.00	**3GVN6**	D80C	192048.00	**3GVR1**
	0.56	72.0%	1125	2.8/1.4	—	—	—	—	—	—	D80C	192049.00	**3GVR2**
1	0.75	75.5%	3475	3.0/1.5	—	—	—	D80D	192265.00	**3GVN8** *	D80C	192266.00	**2NE24** *
	0.75	82.5%	1150	3.4/1.7	D90S	192200.00	**5PGH2** *	D90SD	192201.00	**5PGH3** *	—	—	—
1½	1.12	86.5%	1725	4.0/2.0	D90S	192202.00	**5PGH4** *	D90SD	192203.00	**5PGH5** *	D90SC	192204.00	**5PGH6** *
2	1.49	85.5%	3455	5.0/2.5	D90S	192208.00	**11N103** *	D90SD	192210.00	**11N104** *	D90SC	192213.00	**11N105** *
	1.49	86.5%	1725	5.4/2.7	D90L	192205.00	**5PGH7** *	D90LD	192206.00	**5PGH8** *	D90LC	192207.00	**5PGH9** *
3	2.24	87.5%	3425	7.0/3.5	D90L	192209.00	**11N106** *	D90LD	192211.00	**11N107** *	D90LC	192214.00	**11N108** *
Cast-Iron Frame													
3	2.24	89.5%	1770	8.0/4.0	—	—	—	—	—	—	DF100LC	193359.60	**5PGJ2** *
4	3.0	89.5%	1760	10.0/5.0	—	—	—	DF100LD	193337.60	**5PGJ4** *	—	—	—
5½	4.10	88.5%	3510	12.6/6.3	—	—	—	DF112MD	193339.60	**5PGJ7** *	—	—	—
	4.10	89.5%	1755	14.0/7.0	—	—	—	DF112MD	193340.60	**5PGJ8** *	—	—	—
10	7.50	91.7%	1765	24.0/12.0	—	—	—	DF132MD	193346.60	**5PGK2** *	—	—	—
15	11.2	92.4%	1765	36.0/18.0	DF160M	193316.60	**5PGK3** *	DF160MD	193349.60	**5PGK4** *	—	—	—

** NEMA Premium® energy-efficient motors.*



Open Dripproof, JM Threaded

WEG NEMA Premium

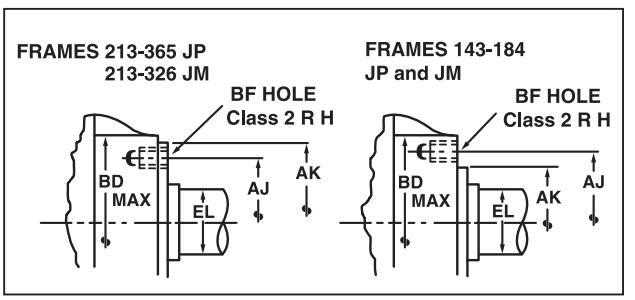
3-Phase NEMA Premium® Energy-Efficient Close-Coupled Pump Motors

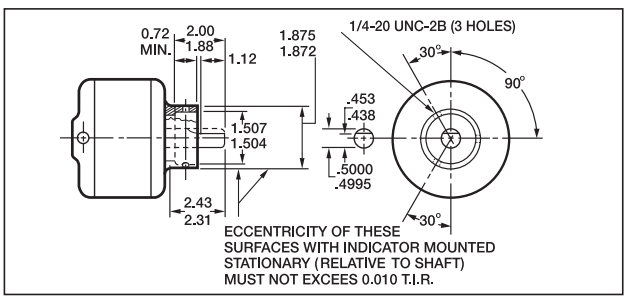
- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 208-230/460V
- Service factor: 1.25 Open enclosure, 1.15 for Totally Enclosed models
- Insulation: Class F, with B temperature rise for longer life
- Inverter rated
- Mounting: face/base
- Max. ambient temp.: 40°C

Close-coupled motors meet or exceed NEMA Premium requirement for energy efficiency. For additional ratings, see Grainger.com®. For use in water pumping, process, transfer, and circulating pumps. TEFC motors are designed for severe-duty applications. All motors are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Item No.
Open Dripproof, JP Threaded, Rolled Steel Frame					
1	1760	143/5JP	3.3-3.0/1.5	85.5%	**33HN17**
1½	3495	143/5JP	4.0-3.71.8	84.0%	**33HN21**
	1755	143/5JP	4.5-4.1/2.0	86.5%	**33HN26**
2	3510	143/5JP	5.3-4.8/2.4	85.5%	**33HN35**
	1745	143/5JP	5.9-5.3/2.6	86.5%	**33HN31**
3	3475	143/5JP	7.9-7.1/3.5	85.5%	**33HN45**
	3475	182/4JP	8.5-7.7/3.8	89.5%	**33HN40**
5	3510	182/4JP	13.5-12.2/6.1	86.5%	**33HN55**
	1750	182/4JP	14.0-12.7/6.3	89.5%	**33HN50**
7½	3500	182/4JP	19.2-17.3/8.6	88.5%	**33HN66**
	1760	213/5JP	20.5-18.5/9.2	91.0%	**33HN61**
10	3530	213/5JP	26.5-24.0/12.0	89.5%	**33HN78**
	1760	213/5JP	27.4-24.8/12.4	91.7%	**33HN72**
15	3525	213/5JP	38.0-34.4/17.2	90.2%	**33HN84**
Open Dripproof, JP Threaded, Cast-Iron Frame					
15	1775	254JP	33.5-37.2/18.6	93.0%	**4EUN5**
20	3520	254JP	44.3-49.2/24.6	91.0%	**4EUN6**
	1775	256JP	45.5-50.6/25.3	93.0%	**4EUN7**
25	3530	256JP	53.6-59.6/29.8	91.7%	**4EUN8**
	1770	284JP	53.8-59.8/29.9	93.6%	**4EUN9**
30	3530	284JP	63.4-70.4/35.2	92.4%	**4EUP1**
	1770	286JP	63.7-70.8/35.4	94.1%	**4EUP2**
40	3535	286JP	84.8-94.2/47.1	93.0%	**4EUP3**
	1775	324JP	91.3-96.4/48.2	94.1%	**4EUP4**
50	3555	324JP	106.2-118.2/59.1	93.6%	**4EUP5**
	1775	326JP	110.5-122.8/61.4	94.5%	**4EUP7**
60	3555	326JP	127.8-142.0/71.0	93.6%	**4EUP8**
	1780	364JP	126.0-139.8/69.9	95.0%	**4EUR1**
75	3550	364JP	146.7-163.0/81.5	94.1%	**4EUR3**
	1780	365JP	153.9-171.0/85.5	95.0%	**4EUR5**
100	3550	365JP	199.8-222.0/111.0	94.5%	**4EUR7**
	1780	404JP	207.0-230.0/115.0	95.4%	**4EUR9**
Open Dripproof, JM Threaded, Rolled Steel Frame					
1	1760	143/5JM	3.3-3.0/1.5	85.5%	**33HN16**
1½	3495	143/5JM	4.0-3.71.8	84.0%	**33HN20**
	1755	143/5JM	4.5-4.1/2.0	86.5%	**33HN25**
3	3475	143/5JM	7.9-7.1/3.5	85.5%	**33HN44**
	1765	182/4JM	8.5-7.7/3.8	89.5%	**33HN39**
5	3510	182/4JM	13.5-12.2/6.1	86.5%	**33HN54**
	1750	182/4JM	14.0-12.7/6.3	89.5%	**33HN49**
7½	3500	182/4JM	19.2-17.3/8.6	88.5%	**33HN65**
10	3530	213/5JM	26.5-24.0/12.0	89.5%	**33HN77**
15	3525	213/5JM	38.0-34.4/17.2	90.2%	**33HN83**
20	3520	254/6JM	52.6-47.6/23.8	91.0%	**33HT95**
25	3530	254/6JM	64.4-58.2/29.1	91.7%	**33HU02**
Open Dripproof, JM Threaded, Cast-Iron Frame					
15	1775	254JM	41.1-37.2/18.6	93.0%	**4EUU7**
20	1775	256JM	55.3-50.0/25.0	93.0%	**4EUU9**
25	1770	284JM	66.1-59.8/29.9	93.6%	**4EUV2**
30	3530	284JM	76.7-70.4/35.2	92.4%	**4EUV3**
	1770	286JM	78.3-70.8/35.4	94.1%	**4EUV4**
40	1775	324JM	107.0-96.4/48.2	94.1%	**4EUV6**
50	3555	324JM	131.0-118.0/59.1	93.6%	**4EUV7**
	1775	326JM	132.0-122.8/61.4	94.5%	**4EUV9**
60	3555	326JM	157.0-142.0/71.0	93.6%	**4EUW1**
	1780	364JM	155.0-140.0/69.9	95.0%	**4EUW3**
75	3550	364JM	180.0-163.0/81.5	94.1%	**4EUW5**
	1780	365JM	189.0-171.0/85.5	95.0%	**4EUW7**

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Item No.
Totally Enclosed Fan-Cooled, JP Threaded, Cast-Iron Frame					
1	1765	143JP	3.1-2.8/1.4	85.5%	**6FJX9**
1½	3495	143JP	4.2-3.8/1.9	84.0%	**6FJY0**
	1760	145JP	4.3-4.0/2.0	86.5%	**6FJY1**
2	3490	145JP	5.6-4.0/2.5	85.5%	**6FJY2**
	1755	145JP	5.7-5.2/2.6	86.5%	**6FJY3**
3	3510	182JP	8.1-7.2/3.6	86.5%	**6FJY4**
	1760	182JP	8.5-7.7/3.8	89.5%	**6FJY5**
	3510	182JP	13.1-11.8/5.9	88.5%	**6FJY6**
5	1755	184JP	14.3-12.9/6.4	89.5%	**6FJY7**
7½	3530	213JP	19.4-17.5/8.7	89.5%	**6FJY8**
	1770	213JP	19.9-18.0/9.0	91.7%	**6FJY9**
10	3530	215JP	25.7-23.2/11.6	90.2%	**6FJZ0**
	1765	215JP	27.4-24.8/12.4	91.7%	**6FJZ1**
15	3535	254JP	37.6-34.4/17.2	91.0%	**6FJZ2**
	1765	254JP	39.8-36.0/18.0	92.4%	**6FJZ3**
20	3530	256JP	51.3-46.4/23.2	91.0%	**6FJZ4**
	1765	256JP	53.3-48.2/24.1	93.0%	**6FJZ5**
25	3555	284JP	63.0-57.0/28.5	91.7%	**6FJZ6**
	1770	284JP	65.2-59.0/29.5	93.6%	**6FJZ7**
30	3530	286JP	74.8-67.6/33.8	91.7%	**6FJZ8**
	1765	286JP	77.6-70.2/35.1	93.6%	**6FJZ9**
40	3555	324JP	101.0-91.6/45.8	92.4%	**6FKA0**
	1775	324JP	107.0-96.4/48.2	94.1%	**6FKA1**
50	3550	326JP	124.0-112.0/56.1	93.0%	**6FKA2**
	1780	326JP	131.0-118.0/59.2	94.5%	**6FKA3**
60	3560	364/5JP	148.0-134.0/67.0	93.6%	**6FKA4**
	1780	364/5JP	151.0-137.0/68.3	95.0%	**6FKA5**
75	3560	364/5JP	181.0-164.0/81.9	93.6%	**6FKA7**
	1775	364/5JP	186.0-168.0/84.1	95.4%	**6FKA8**
100	3550	404/5JP	243.0-220.0/110.0	94.1%	**6FKA9**
	1775	404/5JP	245.0-222.0/111.0	95.4%	**6FKC1**
Totally Enclosed Fan-Cooled, JM Threaded, Cast-Iron Frame					
1	1765	143JM	3.7-2.8/1.4	85.5%	**6FKC3**
1½	3495	143JM	4.2-3.8/1.9	84.0%	**6FKC4**
	1760	145JM	4.3-4.0/2.0	86.5%	**6FKC5**
2	1755	145JM	5.7-5.2/2.6	86.5%	**6FKC7**
3	3510	182JM	8.1-7.2/3.6	86.5%	**6FKC8**
	1760	182JM	8.5-7.7/3.8	89.5%	**6FKC9**
5	3510	184JM	13.1-11.8/5.9	88.5%	**6FKD0**
	1755	184JM	14.3-12.9/6.4	89.5%	**6FKD1**
7½	3530	213JM	19.4-17.5/8.7	89.5%	**6FKD2**
	1770	213JM	19.9-18.0/9.0	91.7%	**6FKD3**
10	3530	215JM	25.7-23.2/11.6	90.2%	**6FKD4**
	1765	215JM	27.4-24.8/12.4	91.7%	**6FKD5**
15	3535	254JM	37.6-34.4/17.2	91.0%	**6FKD6**
	1765	254JM	39.8-36.0/18.0	92.4%	**6FKD7**
20	3530	256JM	51.3-46.4/23.2	91.0%	**6FKD8**
	1765	256JM	53.3-48.2/24.1	93.0%	**6FKD9**
25	3555	284JM	63.0-57.0/28.5	91.7%	**6FKE0**
	1770	284JM	65.2-59.0/29.5	93.6%	**6FKE1**
30	3530	286JM	74.8-67.6/33.8	91.7%	**6FKE2**
	1765	286JM	77.6-70.2/35.1	93.6%	**6FKE3**
40	3555	324JM	101.0-91.6/45.8	92.4%	**6FKE4**
	1775	324JM	107.0-96.4/48.2	94.1%	**6FKE5**
50	3550	326JM	124.0-112.0/56.1	93.0%	**6FKE6**
	1780	326JM	131.0-118.0/59.2	94.5%	**6FKE7**
60	3560	364/5JM	148.0-134.0/67.0	93.6%	**6FKE8**
	1780	364/5JM	151.0-137.0/68.3	95.0%	**6FKE9**
75	3560	364/5JM	181.0-164.0/81.9	93.6%	**6FKF1**
	1775	364/5JM	186.0-168.0/84.1	95.4%	**6FKF2**
100	3555	405TCZ	243.0-220.0/110.0	94.1%	**6FKF3**
	1775	405TCZ	245.0-222.0/111.0	95.4%	**6FKF5**





Frame Designations	Close-Coupled Pump Shaft Dimensions U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
143JM/145JM	⅞"	1 5/32"	1"	⅜-16 x ¾"	⅝"	2⅛"	4¼"	5⅞"	4½"	6⅝"	⅜-16"
143JP/145JP	⅞"	1 5/32"	1"	⅜-16 x ¾"	1 9/16"	5 15/16"	7 9/16"	5⅞"	4½"	6⅝"	⅜-16"
182JM/184JM	⅞"	1¼"	1"	⅜-16 x ¾"	⅝"	2⅛"	4¼"	5⅞"	4½"	6⅝"	⅜-16"
182JP/184JP	⅞"	1¼"	1"	⅜-16 x ¾"	1 9/16"	5 15/16"	7 5/16"	5⅞"	4½"	6⅝"	⅜-16"
213JM/215JM	⅞"	1¼"	1"	⅜-16 x ¾"	⅝"	2⅛"	4¼"	7¼"	8½"	9"	½-13"
213JP/215JP	1¼"	1¾"	1⅜"	½-13 x 1"	2⅜"	5⅞"	8⅛"	7¼"	8½"	9"	½-13"
254JM/256JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	7¼"	8½"	9¼"	½-13"
254JP/256JP	1¼"	1¾"	1⅜"	½-13 x 1"	2⅜"	5⅞"	8⅛"	7¼"	8½"	9"	½-13"
284JM/286JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	11"	12½"	10"	⅝-11"
284JP/286JP	1¼"	1¾"	1⅜"	½-13 x 1"	2⅜"	5⅞"	8⅛"	11"	12½"	10"	⅝-11"

Frame Designations	Close-Coupled Pump Shaft Dimensions U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
324JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	11"	12½"	14"	⅝-11"
324JP	1¼"	1¾"	1⅜"	½-13 x 1"	2⅜"	5⅞"	8⅛"	11"	12½"	14"	⅝-11"
326JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	11"	12½"	14"	⅝-11"
326JP	1¼"	1¾"	1⅜"	½-13 x 1"	2⅜"	5⅞"	8⅛"	11"	12½"	14"	⅝-11"
364JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	11"	12½"	14"	⅝-11"
364JP	1⅝"	2⅛"	1¾"	½-13 x 1"	2⅜"	5⅞"	8⅛"	11"	12½"	14"	⅝-11"
365JM	1¼"	1¾"	1⅜"	½-13 x 1"	⅝"	3"	5¼"	11"	12½"	14"	⅝-11"
365JP	1⅝"	2⅛"	1¾"	½-13 x 1"	2⅜"	5⅞"	8⅛"	11"	12½"	14"	⅝-11"
404JP/405JP	1⅝"	2⅛"	1¾"	½-13 x 2"	2⅜"	5⅞"	8⅛"	11"	12½"	15 9/16"	⅝-11"



No. 26ZY32



No. 26ZY10



No. 26ZY45



No. 52NT96

marathon™ Motors Century®

1- and 3-Phase Close-Coupled Pump Motors

- Rotation: CW/CCW, except where noted
- Thermal protection: none
- Service factor: 1.15 except for No. 26ZY45 is 1.00
- Insulation: Class F, except where noted
- Max. ambient temp.: 40°C

Motors are continuous-duty and for use in commercial and industrial pumping applications. TEFC motors are suitable for use in dirty, dusty, and nonhazardous applications. All models are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Brand	Item No.
Open Dripproof, JM Threaded, Capacitor-Start, Face/Base							
1	1725	143JM	115/208-230	13.4/6.8-6.7	72.0%	Marathon	**26ZX32** †
2	3500	145JM		19.1/10.6-9.5	78.5%	Marathon	**26ZY33** †
3	3500	182JM	115/230	32.0/16.1	75.5%	Century	**26ZY58** *
	3500	182JM		32.0/16.1	75.5%	Marathon	**26ZY36**
	1747	184JM		33.5/16.8	75.5%	Marathon	**26ZY38**
5	3530	184JM	230	22.7	78.5%	Century	**22UP53** *
	1750	213JM		22.0	82.5%	Century	**26ZY60** *
	3500	184JM		22.0	80.0%	Marathon	**26ZY37**
7½	1730	215JM		34.5	84.0%	Century	**22UP54** *
	3470	213JM		37.0	78.5%	Century	**26ZY56** *
	3470	213JM		37.0	78.5%	Marathon	**26ZY39** †
	1730	215JM		34.5	84.0%	Marathon	**26ZY42**
10	3510	215JM		37.5	82.5%	Century	**26ZY57** *
	3465	215JM		47.0	81.5%	Marathon	**26ZY43** †
Open Dripproof, JM Threaded, 3-Phase, Face/Base							
1	1760	143JM	208-230/460	3.2-3.0/1.5	85.5%	Marathon	**26ZX83**
1½	3515	143JM		4.0-3.8/1.9	86.5%	Marathon	**26ZX81**
	1755	145JM		4.4-4.4/2.2	86.5%	Marathon	**26ZX91**
2	3510	145JM		6.0-5.6/2.8	86.5%	Marathon	**26ZX87**
	1750	145JM		6.2-5.8/2.9	86.5%	Marathon	**26ZX92**
3	3490	145JM		8.0-7.2/3.6	86.5%	Marathon	**26ZX88**
	1765	182JM		8.4-8.0/4.0	86.5%	Marathon	**26ZX95**
5	3495	182JM		13.2-11.8/5.9	89.5%	Marathon	**26ZX93**
	1755	184JM		14.0-12.8/6.4	90.2%	Marathon	**26ZX99**
7½	3510	184JM		19.0-17.0/8.5	90.2%	Marathon	**26ZX97**
	1768	213JM		21.0-19.0/9.5	89.5%	Marathon	**26ZY04**
10	1768	215JM		26.9-25.0/12.5	91.7%	Marathon	**26ZY08**
	1775	254JM		40.0-38.0/19.0	91.7%	Marathon	**26ZY10**
15	1775	254JM	575	15.2	91.7%	Marathon	**26ZY11**
	3525	215JM	230/460	36.5/18.2	91.0%	Marathon	**482R03**
	3545	254JM	208-230/460	51.0-46.0/23.0	91.7%	Marathon	**26ZY12**
20	3520	254JM	230/460	46.0/23.1	91.7%	Marathon	**29AK18**
	3520	254JM	200	53.1	91.7%	Marathon	**29AK19** †
30	3555	284JM	208-230/460	76.0-68.0/34.0	94.5%	Marathon	**26ZY18**
40	3555	286JM		89.0/44.5	94.1%	Marathon	**52JA59**
Open Dripproof, JP Threaded, Capacitor-Start, Face/Base							
7½	3470	213JP	230	37.0	78.5%	Century	**26ZY61** *
10	3510	215JP		37.5	82.5%	Century	**26ZY62** *
Open Dripproof, JP Threaded, 3-Phase, Face/Base							
1	1760	143JP	230/460	3.0/1.5	86.5%	Marathon	**32UP82**
3	1750	182JP		7.6/3.8	89.5%	Marathon	**32UP93**
5	3505	182JP		12.4/6.2	85.5%	Marathon	**32UP26**
7½	1750	213JP		19.0/9.5	91.7%	Marathon	**32UR02**
10	3450	213JP		23.0/11.5	89.5%	Marathon	**32UP99**
20	1750	256JP		48.0/24.0	94.1%	Marathon	**32UR14**
25	3450	256JP		57.0/28.5	93.6%	Marathon	**32UR12**
Open Dripproof, Keyed, 3-Phase, Face/Base							
25	1778	284JM	208-230/460	66.0-62.0/31.0	94.1%	Marathon	**26ZY20**

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Brand	Item No.
Totally Enclosed Fan-Cooled, JM Threaded, Capacitor-Start/Run, Face/Base							
7½	3465	213JM	230	32.0	81.5%	Marathon	**26ZY45**
Totally Enclosed Fan-Cooled, JM Threaded, 3-Phase, Face/Base							
15	3540	254JM	208-230/460	39.0-35.0/18.0	91.0%	Century	**29NZ27**
20	3540	256JM		51.0-46.0/23.0	90.2%	Century	**29NZ28**
25	3560	284JM	230/460	56.0/28.0	94.1%	Marathon	**25VD75**
Totally Enclosed Fan-Cooled, JP Threaded, 3-Phase, Face							
2	1760	145JPV	230/460	6.0/3.0	75.5%	Marathon	**29FH20**
3	1750	182JP		7.6/3.8	89.5%	Marathon	**29FH26**
7½	3510	213JP		17.4/8.7	91.7%	Marathon	**29FH32**
	1770	213JP		19.2/9.6	90.2%	Marathon	**29FH34**
10	1768	215JP		25.6/12.8	92.4%	Marathon	**29FH38**
	3505	215JP		23.0/11.5	90.2%	Marathon	**29FH36**
15	3538	254JP		35.0/17.5	93.6%	Marathon	**29FH40**
	1770	254JP		37.0/18.5	93.6%	Marathon	**29FH42**
20	1773	256JP		48.5/24.2	93.6%	Marathon	**29FH46**
Totally Enclosed Fan-Cooled, JP Threaded, 3-Phase, Face/Base							
1	1765	143JPV	230/460	3.3/1.6	85.5%	Marathon	**29FG95**
1½	1755	145JPV		4.6/2.3	86.5%	Marathon	**29FH08**
2	1760	145JPV	200	6.9	85.5%	Marathon	**29FH19**
10	1768	215JP	575	10.3	92.4%	Marathon	**29FH39**
Totally Enclosed Fan-Cooled, Keyed, 3-Phase, Face/Base							
1	1760	143JM	230/460	3.2/1.6	85.5%	Marathon	**52NT96**
2	1745	145JM		5.8/2.9	86.5%	Marathon	**52NU09**
3	1750	182JM		7.8/3.9	87.5%	Marathon	**52NU13**
5	3495	184JM		12.0/6.0	88.5%	Marathon	**52NU15**
	1740	184JM		12.4/6.2	88.5%	Marathon	**52NU17**
7½	3525	213JM		17.8/8.9	90.2%	Marathon	**52NU19**
	1770	213JM		18.6/9.3	86.5%	Marathon	**52NU21**
10	3505	215JM		23.0/11.5	90.2%	Marathon	**52NU23**
	1770	215JM		24.4/12.2	92.4%	Marathon	**52NU25**

** CWLE rotation. † Class B.*

MOTOR & PUMP UPGRADE Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient motor and pump retrofit projects.

> Visit **grainger.com/energyservices**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



ODP, Face-Mount, Keyed Shaft



ODP, Face/Base-Mount, Threaded Shaft



TEFC, Face-Mount, Threaded Shaft

marathon Motors | Dayton

1-Phase Jet Pump Motors

- Thermal protection: auto
- 60 Hz, except No. 2K650 is 60/50 Hz
- Insulation: Class B
- Mounting: horizontal or vertical, shaft down
- Bearings: ball
- Motor: capacitor-start, unless footnoted

Shaft slinger (all models) and gasketed conduit box (TEFC models only) protect against moisture and contaminants.

56C frame shaft: 5/8" dia. x 1 7/8"L, 3/16"-wide keyway.

56J frame shaft: stainless steel, 7/16-20 UNF-2A, RH threaded 1 1/16" from end, 2 7/16" length. Use in jet pump water systems, centrifugal and hydraulic pumps, and other applications requiring NEMA 56C- or 56J-face mounting. UL Recognized and CSA Certified.

Note: Must equal or exceed service factor and HP for proper replacement.

MARATHON

2-compartment design with locked ball bearings on shaft end. Voltage-change plug and enlarged conduit box for easy terminal lead connection. 56C frame has 416 stainless steel shaft.

DAYTON®

Single-compartment design. 56C frame has carbon steel keyed shaft. ½-HP and higher motors include drip cover kit for vertical mounting.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Service Factor	Max. Ambient Temp.	Brand	Mfr. Stock No.	Item No.	
Open Dripproof, 56C Frame, Face-Mount, Keyed Shaft										
1/3	3450	CCWSE	115	6.2	1.75	50°C	Marathon	H439	**2K409**	*
	3450	CCWSE	115/230	6.2/3.1	1.75	50°C	Marathon	C1081	**2K391**	
	3450	CCWSE	115/230	6.2/3.1	1.75	40°C	Dayton	5K955	**5K955**	
1/2	3450	CCWSE	115/230	8.2/4.1	1.60	50°C	Marathon	C1082	**2K392**	
	3450	CCWSE	115/230	7.7/3.8	1.60	40°C	Dayton	5K657	**5K657**	
3/4	3450	CW/CCW	115/230	11.2/5.6	1.50	40°C	Marathon	C332	**4K110**	
	3450	CCWSE	115/230	13.0/6.5	1.50	50°C	Marathon	C1083A	**35LF85**	
	3450	CCWSE	115/230	11.6/5.8	1.50	40°C	Dayton	5K658	**5K658**	
1	3450	CW/CCW	115/208-230	13.2/6.5-6.6	1.40	40°C	Marathon	C334	**4K111**	
	3450	CW/CCW	115/208-230	12.8/6.7-6.4	1.40	40°C	Dayton	5K659	**5K659**	
	3450	CCWSE	115/230	14.2/7.1	1.40	50°C	Marathon	C1084	**2K394**	
1 1/2	3450	CW/CCW	115/208-230	18.4/9.8-9.2	1.30	40°C	Marathon	C336	**4K112**	
	3450	CW/CCW	115/208-230	18.2/9.2-9.1	1.30	40°C	Dayton	5K469	**5K469**	
	3450	CCWSE	115/230	15.8/7.9	1.30	50°C	Marathon	C1085	**2K395**	†
2	3450	CW/CCW	115/208-230	21.2/11.5-10.6	1.20	40°C	Marathon	C338	**4K113**	
	3450	CCWSE	115/208-230	19.6/10.7-9.8	1.20	40°C	Dayton	5K470	**5K470**	
	3450	CCWSE	115/230	19.2/9.6	1.20	50°C	Marathon	C1086	**2K396**	†
3	3450	CW/CCW	115/230	29.4/14.7	1.15	40°C	Marathon	C340	**4K114**	†
Totally Enclosed Fan-Cooled, 56C Frame, Face/Base-Mount, Keyed Shaft										
1/2	3450	CW/CCW	115/230	7.4/3.7	1.25	40°C	Marathon	C444	**2K379**	
Open Dripproof, 56J Frame, Face/Base-Mount, Threaded Shaft										
1/3	3450	CCWSE	115	6.2	1.75	50°C	Marathon	H685	**5U259**	*
1/2	3450	CCWSE	115/230	8.2/4.1	1.60	50°C	Marathon	C1462	**5U170**	
	3450	CCWSE	115/230	9.0/4.5	1.60	40°C	Dayton	6K580	**6K580**	
3/4	3450	CCWSE	115/208-230	11.0/5.4-5.5	1.50	40°C	Dayton	6K581	**6K581**	
	3450	CCWSE	115/230	11.6/5.8	1.50	50°C	Marathon	C1463	**5U171**	
1	3450	CCWSE	115/208-230	13.2/6.8-6.6	1.40	40°C	Dayton	6K582	**6K582**	
	3450	CCWSE	115/230	14.2/7.1	1.40	50°C	Marathon	C1464	**5U172**	
1 1/2	3450	CCWSE	115/208-230	18.2/9.2-9.1	1.30	40°C	Dayton	6K516	**6K516**	
	3450	CCWSE	115/230	15.8/7.9	1.30	50°C	Marathon	C1465	**5U173**	†
2	3450	CCWSE	115/230	19.2/9.6	1.20	50°C	Marathon	C1466	**5U174**	†
Open Dripproof, 56J Frame, Face-Mount, Threaded Shaft										
1/3	3450	CCWSE	115	6.2	1.75	50°C	Marathon	H440	**2K410**	*
	3450	CCWSE	115/208-230	6.4/3-3.2	1.75	40°C	Marathon	C329	**2K366**	
	3450	CCWSE	115/230	6.2/3.1	1.75	50°C	Marathon	C1087	**2K397**	
	3450	CCWSE	115/230	6.2/3.1	1.75	40°C	Dayton	5K956	**5K956**	
	1725/1425	CCWSE	115/208-230	6.0/3.2-3.0	1.35	40°C	Marathon	C683	**2K650**	
1/2	3450	CCWSE	115/208-230	7.6/3.7-3.8	1.60	40°C	Marathon	C331	**2K367**	
	3450	CCWSE	115/230	8.2/4.1	1.60	50°C	Marathon	C1088	**2K398**	
	3450	CCWSE	115/230	9.0/4.5	1.65	40°C	Dayton	5K660	**5K660**	
3/4	3450	CCWSE	115/208-230	11.2/5.3-5.6	1.50	40°C	Marathon	C333	**2K368**	
	3450	CCWSE	115/208-230	10.4/5.4-5.2	1.50	40°C	Dayton	5K661	**5K661**	
	3450	CCWSE	115/230	11.6/5.8	1.50	50°C	Marathon	C1089	**2K399**	
1	3450	CCWSE	115/208-230	13.2/6.5-6.6	1.40	40°C	Marathon	C335	**2K369**	
	3450	CCWSE	115/230	14.2/7.1	1.40	50°C	Marathon	C1090	**2K400**	
	3450	CCWSE	115/230	13.4/6.7	1.40	40°C	Dayton	5K662	**5K662**	
1 1/2	3450	CCWSE	115/208-230	18.2/9.2-9.1	1.30	40°C	Dayton	5K475	**5K475**	
	3450	CCWSE	115/230	18.4/9.2	1.30	40°C	Marathon	C337	**2K370**	
	3450	CCWSE	115/230	15.8/7.9	1.30	50°C	Marathon	C1091	**2K401**	†
2	3450	CCWSE	115/208-230	19.6/10.7-9.8	1.20	40°C	Dayton	5K476	**5K476**	
	3450	CCWSE	115/230	21.2/10.6	1.20	40°C	Marathon	C339	**2K371**	
	3450	CCWSE	115/230	19.2/9.6	1.20	50°C	Marathon	C1092	**2K402**	†
3	3450	CCWSE	115/230	29.4/14.7	1.15	40°C	Marathon	C341	**2K372**	†
Totally Enclosed Fan-Cooled, 56J Frame, Face-Mount, Threaded Shaft										
1/3	3450	CW/CCW	115/230	5.6/2.8	1.00	40°C	Marathon	C1336	**5TB76**	
1/2	3450	CCWSE	115/230	7.4/3.7	1.15	40°C	Marathon	C465	**2K382**	
1	3450	CCWSE	115/230	13.0/6.5	1.15	40°C	Marathon	C352	**2K378**	
2	3450	CCWSE	115/230	17.8/8.9	1.00	40°C	Marathon	C878	**2K390**	†

**** Split-phase. † Capacitor-start, capacitor-run.***



ODP, Face/ Base-Mount

marathon Motors | Dayton

3-Phase Jet Pump Motors

- 56J frame
- Thermal protection: none
- Bearings: ball
- Max. ambient temp.: 40°C

Shaft: stainless steel, 7/16-20 UNF-2A RH threaded 1 1/16" from end, 2 7/16"L. Open dripproof models have a shaft slinger and gasketed conduit box to protect against moisture and contamination.

Dayton® motors will operate at 50 Hz on 190/380V at 5/6 of 60 Hz HP and rpm. For use in industrial, commercial, centrifugal, and hydraulic pumps. UL Recognized and CSA Certified.

Note: Must equal or exceed service factor and HP for proper replacement.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Service Factor	Ins. Class	Brand	Mfr. Stock No.	Item No.
Open Dripproof, Face-Mount									
1/3	3450/2850	CW/CCW	208-230/460	1.5-1.8/0.90	1.75	B	Marathon	K748	**4N087**
1/2	3450	CW/CCW	208-230/460	2.0-2.0/1.0	1.60	B	Marathon	K217	**4N062**
	1725	CW/CCW	208-230/460	2.3-2.2/1.1	1.25	B	Marathon	K553	**4N085**
3/4	1725	CW/CCW	208-230/460	3.3-3.0/1.5	1.25	B	Marathon	K555	**4N086**
1	3450	CW/CCW	208-230/460	3.3-3.2/1.6	1.40	B	Marathon	K221	**4N064**
	1725	CW/CCW	208-230/460	3.6-3.8/1.9	1.15	B	Marathon	K750	**4N089**
1 1/2	3450	CW/CCW	208-230/460	5.0-4.8/2.4	1.30	B	Marathon	K223	**4N065**
	1725	CW/CCW	208-230/460	5.8-5.6/2.8	1.15	B	Marathon	K751	**4N090**
2	3450	CW/CCW	208-230/460	6.0-6.0/3.0	1.20	B	Marathon	K225	**4N066**
3	3450	CW/CCW	208-230/460	8.9-8.2/4.1	1.15	B	Marathon	K227	**4N067**
Open Dripproof, Face/Base-Mount									
3/4	3530/2910	CW/CCW	208-230/460	2.3-2.2/1.1	1.15	B	Dayton	3N088	**3N088**
	3450	CW/CCW	208-230/460	2.6-2.6/1.3	1.50	B	Marathon	K1483	**5U264**
1 1/2	3450	CW/CCW	230/460	3.8/1.9	1.30	B	Dayton	52ZW08	**52ZW08**
Totally Enclosed Fan-Cooled, Face-Mount									
1/2	3450	CW/CCW	200-230/460	2.1-2.0/1.0	1.60	A	Marathon	K230	**4N070**
	1725	CW/CCW	208-230/460	2.3-2.2/1.1	1.00	B	Marathon	K550	**4N084**
1 1/2	3450	CW/CCW	230/460	4.0/2.0	1.30	B	Marathon	KG236A	**53DE73**
2	3450	CW/CCW	230/460	5.0/2.5	1.25	F	Marathon	K238A	**53DE40**
3	3450	CW/CCW	230/460	7.6/3.8	1.00	B	Marathon	K240A	**53DE42**
Totally Enclosed Fan-Cooled, Face/Base-Mount									
1 1/2	3450	CW/CCW	230/460	4.0/2.0	1.15	B	Marathon	J064A	**53DE36**
Totally Enclosed Fan-Cooled, Rigid Base-Mount									
1	3450	CW/CCW	230/460	3.0/1.5	1.15	B	Marathon	J063A	**53UF61**

1-Phase and 3-Phase Square-Flange Pool Pump Motors

Century®

- Enclosure: open dripproof
- Thermal protection: auto, except 3-phase motors have none
- Mounting: flange, horizontal only
- Bearings: ball

Motors are equivalent replacements for most popular pool and spa manufacturers' pumps. Permanent split capacitor and 3-phase motors are single-compartment design. Capacitor-start motors are 2-compartment design. Shaft: 303 stainless steel, ½-20 UNF-2A RH external threads. Additional square-flange pump motors are available on Grainger.com®. UL Recognized and CSA Certified.

Note: Must equal or exceed service factor and HP for proper replacement.

HP	Nameplate RPM	Rotation	Phase	Voltage	Full Load Amps	Service Factor	Ins. Class	Efficiency Group	Max. Ambient Temp.	Mfr. Stock No.	Item No.
56Y Frame, Permanent Split Capacitor											
½	3450	CCWSE	1	115/208-230	8.8/4.5-4.4	1.90	B	Energy Efficient	50°C	B845	**16U451**
	3450	CCWSE	1	115/230	10.8/5.4	1.95	F	Standard Efficient	50°C	B2846	**6UEV2** *
¾	3450	CCWSE	1	115/208-230	11.2/6.0-5.6	1.67	F	Standard Efficient	50°C	B2661	**16U450**
	3450	CCWSE	1	115/230	10.8/5.4	1.25	F	Standard Efficient	50°C	B2852	**16U447**
1	3450	CCWSE	1	115/230	13.0/6.5	1.25	F	Standard Efficient	50°C	B2853	**16U442**
	3450	CCWSE	1	115/230	16.0/8.0	1.65	F	Standard Efficient	50°C	B2848	**6UEV4** *
1½	3450	CCWSE	1	115/230	16.0/8.0	1.10	F	Standard Efficient	50°C	B2854	**16U440**
	3450	CCWSE	1	115/230	21.0/10.5	1.50	F	Standard Efficient	50°C	B2858	**6FJF3**
	3450	CCWSE	1	208-230	9.6-8.8	1.47	F	Standard Efficient	50°C	B2842	**16U449**
	3450	CCWSE	1	230	10.0	1.50	B	Standard Efficient	50°C	B849	**16U443**
2, ⅓	3450/1725	CCWSE	1	230	10.0/3.5	1.10	B	Standard Efficient	40°C	B985	**16U436**
2	3450	CCWSE	1	115/230	21.0/10.5	1.10	F	Standard Efficient	50°C	B2859	**16U452**
	3450	CCWSE	1	208-230	11.0/10.2	1.30	F	Standard Efficient	50°C	B2843	**16U446**
	3450	CCWSE	1	230	10.0	1.10	B	Standard Efficient	50°C	B855	**16U441**
	3450	CCWSE	1	230	11.5	1.30	F	Standard Efficient	50°C	B2748	**6UEV5** *
2½	3450	CCWSE	1	230	11.5	1.04	F	Standard Efficient	50°C	B2840	**16U448**
3	3450	CCWSE	1	208-230	15.0-13.6	1.15	F	Standard Efficient	50°C	B2844	**16U444**
56Y Frame, Capacitor-Start/Run											
¾, 1⁄10	3450/1725	CCWSE	1	115	12.2/2.0	1.67	F	Energy Efficient	50°C	B2981	**16U437**
	3450/1725	CCWSE	1	230	5.8/0.90	1.67	F	Energy Efficient	50°C	B2980	**16U439**
1, 1⁄10	3450/1725	CCWSE	1	230	7.4/1.4	1.65	F	Energy Efficient	50°C	B2982	**16U438**
1½, ⅙	3450/1725	CCWSE	1	230	10.0/1.6	1.47	F	Energy Efficient	50°C	B2983	**16U434**
2, ¼	3450/1725	CCWSE	1	230	11.0/1.8	1.30	F	Energy Efficient	50°C	B2984	**16U435**
3	3450	CCWSE	1	208-230	15.0-13.3	1.15	B	Standard Efficient	50°C	SQ1302V1	**2GMP9** *
56Y Frame, 3-Phase											
½	3450	CW/CCW	3	208-230/460	3.2-3.0/1.5	1.90	B	Standard Efficient	50°C	H491	**4YY42** *
¾	3450	CW/CCW	3	208-230/460	3.8-3.6/1.8	1.65	B	Standard Efficient	50°C	H492	**4YY43** *
1	3450	CW/CCW	3	208-230/460	5.0-4.6/2.3	1.65	B	Standard Efficient	50°C	H635	**4YY44** *
1½	3450	CW/CCW	3	208-230/460	6.4-5.8/2.9	1.47	B	Standard Efficient	50°C	H636	**4YY45** *
2	3450	CW/CCW	3	208-230/460	7.1-6.8/3.4	1.30	B	Standard Efficient	50°C	H637	**4YY46** *
3	3450	CW/CCW	3	208-230/460	9.8-9.6/4.8	1.15	B	Standard Efficient	50°C	H755	**4YY47** *
	3450	CW/CCW	3	208-230/460	10.0/5.0	1.15	B	Standard Efficient	50°C	Q3302V1	**16U454**
5	3450	CW/CCW	3	208-230/460	13.4-13.4/6.7	1.00	B	Standard Efficient	40°C	H995	**16U481**

**** Motor shafts also have ¼-20 UNC-2B LH internal threads.***



56Y Frame, Permanent Split Capacitor



56Y Frame, Capacitor Start/Run



56Y Frame, 3-Phase

HP	Nameplate RPM	Voltage	Full Load Amps	Service Factor	Efficiency Group	Motor Flange Material	Max. Ambient Temp.	Mfr. Stock No.	Item No.
56C Frame, Capacitor-Start/Run									
½	3450	115/230	8.0/4.0	1.60	Energy Efficient	Aluminum	50°C	CK1052	**5PE35**
¾	3450	115/230	11.0/5.5	1.50	Energy Efficient	Aluminum	50°C	CK1072	**5PE37**
1	3450	115/230	13.6/6.8	1.40	Energy Efficient	Aluminum	50°C	CK1102	**5PE39**
1½	3450	115/230	19.4/9.7	1.30	Energy Efficient	Aluminum	50°C	SK1152	**5PE45**
2	3450	230	11.2	1.30	Energy Efficient	Aluminum	50°C	SK1202	**5PE46**
3	3450	208-230	15.0-13.3	1.15	Standard Efficient	Aluminum	50°C	SK1302V1	**3CZR4**
56C Frame, Permanent Split Capacitor									
½	3450	115/208-230	8.2/4.4-4.1	1.50	Energy Efficient	Cast-Iron	50°C	B639	**5PB73**
	3450	115/230	8.8/4.4	1.60	Standard Efficient	Aluminum	50°C	B120	**5PB61**
¾	3450	115/230	12.0/6.0	1.50	Standard Efficient	Aluminum	50°C	B121	**5PB62**
1	3450	115/208-230	11.8/6.4-5.9	1.40	Energy Efficient	Aluminum	50°C	B653	**5PB93**
	3450	115/230	14.4/7.2	1.40	Standard Efficient	Aluminum	50°C	B122	**5PB63**
1½	3450	115/208-230	15.6/8.7-7.8	1.30	Energy Efficient	Aluminum	50°C	B795	**5PB97**
	3450	115/230	18.4/9.2	1.30	Standard Efficient	Aluminum	50°C	B123	**5PB64**
2	3450	115/230	21.6/10.8	1.20	Standard Efficient	Aluminum	50°C	B835	**16U472**
	3450	208-230	10.4	1.20	Energy Efficient	Aluminum	50°C	B808	**5PE11**
	3450	230	10.5	1.20	Standard Efficient	Aluminum	50°C	B124	**5PB65**
3	3450	208-230	15.0-13.6	1.15	Energy Efficient	Aluminum	50°C	B817	**5PE15**
	3450	230	14.1	1.15	Standard Efficient	Aluminum	50°C	B125	**16U473**
56J Frame, Capacitor-Start/Run									
½	3450	115/230	8.0/4.0	1.60	Energy Efficient	Aluminum	50°C	CT1052	**5PE40**
¾	3450	115/230	8.0/4.0	1.00	Energy Efficient	Aluminum	50°C	UCT1072	**16U479**
	3450	115/230	11.0/5.5	1.50	Energy Efficient	Aluminum	50°C	CT1072	**5PE41**
1, 1⁄10	3450/1725	230	7.0/2.3	1.50	Energy Efficient	Aluminum	50°C	STS1102RV1	**16U474**
1	3450	115/230	11.0/5.5	1.00	Energy Efficient	Aluminum	50°C	UCT1102	**16U477**
	3450	115/230	13.6/6.8	1.40	Energy Efficient	Aluminum	50°C	CT1102	**5PE53**
1½, ¼	3450/1725	230	9.0/3.3	1.30	Energy Efficient	Aluminum	40°C	STS1152R	**5PE56**
1½	3450	115/208-230	19.6/10.4-9.8	1.47	Energy Efficient	Aluminum	50°C	ST1152	**5PE50**
	3450	115/230	14.6/7.3	1.00	Energy Efficient	Aluminum	50°C	UCT1152	**16U478**
2	3450	115/208-230	19.6/10.4-9.8	1.10	Energy Efficient	Aluminum	50°C	UST1202	**5PE61**
	3450	208-230	12.6-11.4	1.30	Energy Efficient	Aluminum	50°C	ST1202	**5PE51**
2½	3450	208-230	12.6-11.4	1.06	Energy Efficient	Aluminum	50°C	UST1252	**16U476**
3	3450	208-230	15.0-13.3	1.15	Standard Efficient	Aluminum	50°C	ST1302V1	**2LJF9**
56J Frame, Permanent Split Capacitor									
½	3450	115/208-230	7.4/4.0-3.7	1.60	Energy Efficient	Aluminum	50°C	B657	**16U468**
	3450	115/230	8.8/4.4	1.60	Standard Efficient	Aluminum	50°C	B126	**5PB66**
¾	3450	115/208-230	10.0/5.4-5.0	1.50	Energy Efficient	Aluminum	50°C	B638	**5PB91**
	3450	115/230	8.8/4.4	1.00	Standard Efficient	Aluminum	50°C	B227SE	**5PB79**
	3450	115/230	12.0/6.0	1.50	Standard Efficient	Cast-Iron	50°C	164360	**5PB58**
	3450	115/230	12.0/6.0	1.50	Standard Efficient	Aluminum	50°C	B127	**5PB67**
1	3450	115/208-230	11.8/6.4-5.9	1.40	Energy Efficient	Aluminum	50°C	B654	**5PB95**
	3450	115/230	12.0/6.0	1.00	Standard Efficient	Aluminum	50°C	B228SE	**5PB81**
	3450	115/230	14.4/7.2	1.40	Standard Efficient	Aluminum	50°C	B128	**5PB68**
1½, ⅓	3450/1725	115	14.6/4.4	1.10	Energy Efficient	Aluminum	50°C	B969	**16U466**
1½	3450	115/208-230	15.6/8.7-7.8	1.30	Energy Efficient	Aluminum	50°C	B796	**5PB99**
	3450	115/230	14.4/7.2	1.00	Standard Efficient	Aluminum	50°C	B229SE	**5PB83**
	3450	115/230	18.4/9.2	1.30	Standard Efficient	Cast-Iron	50°C	164362	**5PB60**
	3450	115/230	18.4/9.2	1.30	Standard Efficient	Aluminum	50°C	B129	**5PB69**
2	3450	115/230	18.4/9.2	1.00	Standard Efficient	Aluminum	50°C	B230SE	**5PB85**
	3450	115/230	21.6/10.8	1.20	Standard Efficient	Aluminum	50°C	B836	**16U471**
	3450	208-230	10.4	1.20	Energy Efficient	Aluminum	50°C	B809	**5PE13**
	3450	230	10.5	1.20	Standard Efficient	Aluminum	50°C	B130	**5PB71**
2½	3450	230	10.5	1.00	Standard Efficient	Aluminum	50°C	B231SE	**5PB87**
3, ⅓	3450/1725	230	13.8/4.0	1.15	Energy Efficient	Aluminum	40°C	B966	**16U465**
3	3450	208-230	15.0-13.6	1.15	Energy Efficient	Aluminum	50°C	B818	**5PE17**
	3450	230	14.1	1.15	Standard Efficient	Aluminum	50°C	B131	**16U470**



56C Frame, Permanent Split Capacitor



56J Frame, Capacitor Start/Run



56J Frame, Permanent Split Capacitor

Century®

1-Phase Face-Mount Pool Pump Motors

- Enclosure: open dripproof
- Rotation: CCWSE
- Thermal protection: auto
- Insulation: Class B
- Bearings: ball

Motors are equivalent replacements for most popular pool and spa pump manufacturers' pumps. Sealed switch design prevents water infiltration. Moisture/heat-resistant bearing lubricant.

56C frame shaft: keyed steel, ⅝" dia. x 1⅞"L with ³⁄₁₆"W keyway.

56J frame shaft: 303 stainless steel, ⁷⁄₁₆-20 UNF-2A RH threaded ¹¹⁄₁₆" from end.

All motors are UL Recognized and CSA Certified.

Note: Must equal or exceed service factor and HP for proper replacement.

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Cradle Base





Rigid Base

Split-Phase Carbonator Pump Motors

- Enclosure: open dripproof
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Max. ambient temp.: 40°C

Motors have a threaded conduit hole. Short, slotted shaft permits close-coupling the carbonator pump to the motor. Extended hub for direct-mounting pump to motor. Use for liquid transfer pumps, vending machine pumps, and other hub-mounted pump applications. See page 2698 for an assortment of suitable pumps. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Hz	Full Load Amps	Service Factor	Bearings	Shaft Dia.	Brand	Mfr. Stock No.	Item No.
Cradle Base											
¼	1725	48Y	115	60	5.0	1.00	Ball	½"	Marathon	4725	**3K067**
	1725	48Y	115	60	4.4	1.00	Sleeve	⅝"	Century	CB2024AV1	**5DVX8**
⅓	1725	48Y	115	60	5.6	1.15	Ball	½"	Marathon	4406	**3K068**
	1725	48Y	115	60	6.1	1.00	Ball	⅝"	Marathon	H682	**5U256**
	1725	48Y	115/230	60/50	4.6/2.3	1.00	Sleeve	⅝"	Century	CB2034AD	**5DVX9**
	1725	48Y	120/240	60/50	5.5-5.6/2.7-2.8	1.00	Ball	⅝"	Marathon	H683	**5U257**
	1725	48Y	120/240	60/50	5.5-5.6/2.7-2.8	1.00	Sleeve	⅝"	Marathon	4805	**3K987**
	1725	48Y	240	60/50	2.7	1.00	Ball	⅝"	Marathon	HG450	**2K457**
½	1725	48Y	115	60	7.2	1.20	Ball	⅝"	Marathon	H926	**5XB87**
	1725	48Y	115/230	60/50	6.8/3.4	1.00	Sleeve	⅝"	Century	CB2054AD	**5DVY0**
¾	1725	48Y	115/230	60	10.4/5.2	1.00	Ball	⅝"	Marathon	HG714	**10A276**
Rigid Base											
¼	1725	48Y	115	60	5.0	1.00	Ball	½"	Marathon	HG679	**5U253**
⅓	1725	48Y	115	60	5.6	1.15	Ball	½"	Marathon	HG680	**5U254**
	1725	48Y	120/240	60/50	5.6/2.8	1.00	Ball	½"	Marathon	H712	**3VG37** *
½	1725	48Y	120/240	60/50	7.1-7.2/3.4-3.6	1.00	Ball	⅝"	Marathon	H684	**5U258**

** Has ½" x 1½" rear shaft extension.*



No. 21AJ16



No. 4UX55



No. 454X49

1-Phase Capacitor-Start Pressure Washer Pump Motors

- Enclosure: open dripproof
- Rotation: CW/CCW, except No. 4UX55 is CWSE
- Thermal protection: manual
- Insulation: Class B
- Bearings: double-shielded ball
- Max. ambient temp.: 40°C

Corrosion-resistant; for use in hot and cold water high-pressure washer applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Shaft Dia.	Brand	Mfr. Stock No.	Item No.
Face/Base									
¾	1725	56C	115/208-230	11.0/5.4-5.5	1.15	⅝"	Marathon	G381	**21AJ16**
1	1725	56C	115/208-230	13.4/6.8-6.7	1.15	⅝"	Marathon	G382	**21AJ17**
2	3450	56HC	115/230	17.5/8.7	1.15	⅝"	Marathon	K615	**21AJ14**
	1725	56HC	115/230	18.8/9.4	1.15	⅝"	Marathon	K319	**21AJ21**
5	3450	56HCZ	208-230	22.0-20.0	1.15	¾"	Dayton	4UX55	**4UX55** *†
Rigid Base									
2	3450	56	115/230	17.8/8.9	1.15	⅝"	Marathon	C1269A	**454X49**

** Capacitor-start, capacitor-run. † ¾" x 1⅛" shaft.*

MOTOR & PUMP UPGRADE Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient motor and pump retrofit projects.

> Visit **grainger.com/energyservices**



12VDC
No. 6MK98



180VDC
No. 4Z379

Dayton

12, 24, 90, and 180VDC Permanent Magnet Motors

- Rotation: CW/CCW
- Service factor: 1.0
- Bearings: ball
- Max. ambient temp.: 40°C

Designed for use with speed controls or NEMA Type K DC power supplies on constant or diminishing torque applications. Performance matched with Dayton® and Dart Speed Controls listed on pages 158 and 159. 90V and 180V models feature a tapped hole on the fan end shaft to mount a No. 6Z392 or No. 5JJ65 pulse generator (see page 159). 56C frame models have a removable base. Find replacement brushes on Grainger.com®. 12V and 24V units are UL Recognized (E57948) and CSA Certified (LR33543); 90V and 180V units are UL Recognized (E47479).

HP	Nameplate RPM	Frame	Enclosure	Full Load Amps	Ins. Class	Overall Length	Item No.
12VDC							
1/4	1800	56C	TENV	21.0	F	10 1/4"	**6MK98**
1/3	1800	56C	TENV	27.0	F	10 3/4"	**6MK99**
1/2	1800	56C	TENV	39.0	H	11 3/4"	**6ML02**
3/4	1800	56C	TEFC	58.0	F	13 3/16"	**6ML04**
1	1800	56C	TEFC	80.0	H	13 13/16"	**6ML06**
24VDC							
1/3	1800	56C	TENV	13.5	F	10 3/4"	**6ML01**
1/2	1800	56C	TENV	20.0	F	11 3/4"	**6ML03**
3/4	1800	56C	TEFC	29.0	F	12 13/16"	**6ML05**
1	1800	56C	TEFC	39.0	H	13 13/16"	**6ML07**
90VDC							
1/4	1750	56C	TEFC	2.5	F	10 13/16"	**2M167**
1/3	1750	56C	TEFC	3.5	F	11 5/16"	**2M509**
1/2	1725	56C	TEFC	5.0	F	11 13/16"	**2M168**
3/4	1725	56C	TEFC	7.6	F	13 13/16"	**2M169**
1	1750	56C	TEFC	10.0	F	14 13/16"	**2M170**
180VDC							
1/2	1725	56C	TEFC	2.5	F	11 13/16"	**4Z524**
3/4	1750	56C	TEFC	3.8	F	13 13/16"	**4Z525**
1	1750	56C	TEFC	5.0	F	14 13/16"	**4Z378**
1 1/2	1750	143/5TC	TEFC	7.5	H	18 5/16"	**4Z379**
3	1750	143/5TC	TEFC	15.0	H	22 5/16"	**6Z791**



No. 4Z248

Dayton

90 and 180VDC Permanent Magnet Motors with Control

- Enclosure: totally enclosed fan-cooled, NEMA 1 control
- Rotation: CW/CCW
- Insulation: Class F
- Mounting: C-face with removable rigid base
- Bearings: ball
- Max. ambient temp.: 40°C
- Input: 115 or 230VAC, 60/50 Hz (No. 4Z226 requires 250V, 20A receptacle)
- 50:1 control speed range

Control regulates speeds within 1% of nameplate rpm and provides full-wave rectification with adjustable min./max. speed, current/torque limit, IR compensation, fixed acceleration, transient and surge protection, and front-panel fuse protection. No. 41D720 has adjustable min./max. speed and IR compensation. Speed regulation: ±1%. Motors are UL Recognized and CSA Certified; Speed Control is UL and C-UL Listed.

HP	Nameplate RPM	Frame	Full Load Amps	Max. Torque	Overall Length	Item No.
115VAC Input, 90VDC Armature						
1/4	1750	56C	2.5	9.1 in.-lb.	15 1/2"	**4Z248**
1/2	1750	56C	5.0	18.2 in.-lb.	16 1/2"	**1F800**
3/4	2500	56C	7.6	18.9 in.-lb.	16 1/2"	**2Z846**
3/4	1750	56C	7.6	27 in.-lb.	18 1/2"	**1F796**
1	1750	56C	10.0	36.6 in.-lb.	20 1/2"	**1F798**
230VAC Input, 180VDC Armature						
1 1/2	2500	56C	7.5	37.8 in.-lb.	19 1/2"	**4Z226**

Enclosure	AC Input Voltage	HP @ 90VDC	HP @ 180VDC	External Switches	W	H	D	Item No.
Replacement Speed Control								
NEMA 1	120/240VAC	1/4 to 1	1/2 to 2	FWD/OFF/REV	6"	5.13"	6.5"	**41D720** *

Fuse protected.

Dayton

12VDC Permanent Magnet Motor



- Enclosure: totally enclosed nonventilated
- Rotation: CW/CCW
- Insulation: Class A
- Bearings: sleeve
- Max. ambient temp.: 40°C

Shaft is 1/4" x 1" with flat. 3 1/5"-dia. body mounts with 1/2"-long studs, 2 5/16" on center.

HP	Nameplate RPM	Voltage	Full Load Amps	Overall Length	Item No.
1/35	2350	12VDC	3.8	4 7/8"	**3LCH7**

HP	Nameplate RPM	Full Load Torque	Full Load Amps	Ins. Class	Shaft Dia.	Overall Length	Base Mounting O.C.	Face Mounting O.C.	Item No.
12/24VDC									
1/18, 1/44	1800/4300	0.81 in.-lb.	2.4	B	1/4"	5 15/16"	3 3/4 x 1 1/4"	1 3/4 x 1 3/4	**3XE19**
1/9, 1/20	1725/4000	1.81 in.-lb.	5.1	B	5/16"	6 27/64"	4 15/16 x 1 1/4"	1 3/4 x 1 3/4	**3XE20**
1/4, 1/7	1750/3900	5.63 in.-lb.	14.0	B	1/2"	8 3/8"	6 7/16 x 2"	2 5/8 x 2 5/8	**4Z143**
1/6, 1/14	1750/4200	2.56 in.-lb.	6.9	B	1/2"	6 3/8"	4 7/16 x 2"	2 5/8 x 2 5/8	**4Z144**
1/3, 1/6	1800/4200	6.38 in.-lb.	16.2	B	1/2"	9 3/8"	7 7/16 x 2"	2 5/8 x 2 5/8	**4Z529**
90VDC									
1/53	2500	0.5 in.-lb.	0.3	B	1/4"	5 15/16"	3 1/2 x 1 1/4"	1 3/4 x 1 3/4	**3XE21**
1/27	1800	1.3 in.-lb.	0.5	B	5/16"	6 7/16"	4 11/16 x 1 1/4"	1 3/4 x 1 3/4	**3XE22**
1/18	1800	1.95 in.-lb.	0.8	B	1/2"	6 3/8"	4 7/16 x 2"	2 5/8 x 2 5/8	**4Z141**
1/8	1800	4.38 in.-lb.	1.5	B	1/2"	8 3/8"	6 7/16 x 2"	2 5/8 x 2 5/8	**4Z140**
1/6	1800	5.63 in.-lb.	1.8	B	1/2"	9 3/8"	7 7/16 x 2"	2 5/8 x 2 5/8	**4Z528**
180VDC									
1/6	1800	5.63 in.-lb.	0.9	—	1/2"	9 3/8"	7 7/16 x 2"	2 5/8 x 2 5/8	**1Z851**

Dayton

12/24, 90, and 180VDC Permanent Magnet Motors



No. 3XE19

- Enclosure: totally enclosed nonventilated
- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Use with Type K DC rectified power sources matched to voltage (providing form factor does not exceed 1.3); see pages 158 and 159. For adjustable speed controls for 12/24V models, see page 159; for 90V and 180V models, see page 158. UL Recognized.



No. 6AGW5

WEG NEMA Premium

3-Phase IEEE 841 NEMA Premium® Efficient Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: none
- 460V
- Service factor: 1.25
- Insulation: Class F with B temp. rise for longer life
- Inverter rated
- Frame material: cast-iron
- Bearings: regreaseable ball
- Max. ambient temp.: 40°C
- Warranty: 5 yr.

Designed for dusty, dirty, nonhazardous applications, and especially suited for pulp, paper, and steel mills, petrochemical, and applications requiring severe-duty long-life motors. Internal and external corrosion-resistant finish with stainless steel nameplate. Feature Inpro-seal on drive end, and 50,000-hr. extended bearing life. Nonsparking fan. Meet or exceed IEEE 841-2009 specification and all NEMA Premium/CEE requirements for energy efficiency. UL Recognized, CSA and CE Certified.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
1	1800	143TC	1.4	85.5%	12⅜"	00118ST3QIE143TC-W22	**12N928**
	1760	143T	1.3	85.5%	12⅜"	00118ST3QIE143T-W22	**6AGU1**
	1200	145TC	1.7	82.5%	13⅜"	00112ST3QIE145TC-W22	**12N929**
1½	3490	143T	1.9	84.0%	12⅜"	00156ST3QIE143T-W22	**6AGU3**
	1800	145TC	2.0	86.5%	13⅜"	00158ST3QIE145TC-W22	**12N930**
	1755	145T	1.9	86.5%	13⅜"	00158ST3QIE145T-W22	**6AGU4**
	1200	182TC	2.3	87.5%	14⅞"	00152ST3QIE182TC-W22	**12N931**
	1165	182T	2.3	87.5%	14⅞"	00152ST3QIE182T-W22	**6AGU5**
2	1800	145TC	2.6	86.5%	13⅜"	00218ST3QIE145TC-W22	**12N932**
	1750	145T	2.6	86.5%	13⅜"	00218ST3QIE145T-W22	**6AGU7**
	1200	184TC	3.2	88.5%	15⅞"	00212ST3QIE184TC-W22	**12N933**
3	3510	182T	3.6	86.5%	14⅞"	00336ST3QIE182T-W22	**6AGU9**
	1800	182TC	3.8	89.5%	14⅞"	00318ST3QIE182TC-W22	**12N934**
	1760	182T	3.8	89.5%	14⅞"	00318ST3QIE182T-W22	**6AGV0**
	1200	213TC	4.4	89.5%	18"	00312ST3QIE213TC-W22	**12N935**
5	3500	184T	5.9	88.5%	15⅞"	00536ST3QIE184T-W22	**6AGV2**
	1800	184TC	6.4	89.5%	15⅞"	00518ST3QIE184TC-W22	**12N936**
	1755	184T	6.4	89.5%	15⅞"	00518ST3QIE184T-W22	**6AGV3**
	1200	215TC	6.8	89.5%	19½"	00512ST3QIE215TC-W22	**12N937**
	1160	215T	6.8	89.5%	19⅝"	00512ST3QIE215T-W22	**6AGV4**
7½	3520	213T	8.7	89.5%	18⅛"	00736ST3QIE213T-W22	**6AGV5**
	1800	213TC	9.0	91.7%	18"	00718ST3QIE213TC-W22	**12N938**
	1765	213T	9.0	91.7%	18⅛"	00718ST3QIE213T-W22	**6AGV6**
	1200	254TC	9.4	91.0%	23⅜"	00712ST3QIE254TC-W22	**12N939**
	1175	254T	9.4	91.0%	23¼"	00712ST3QIE254T-W22	**6AGV7**
10	3515	215T	11.6	90.2%	19⅝"	01036ST3QIE215T-W22	**6AGV8**
	1800	215TC	12.4	91.7%	19½"	01018ST3QIE215TC-W22	**12N940**
	1760	215T	12.4	91.7%	19⅝"	01018ST3QIE215T-W22	**6AGV9**
	1200	256TC	12.9	91.0%	25"	01012ST3QIE256TC-W22	**12N941**
	1175	256T	12.9	91.0%	25"	01012ST3QIE256T-W22	**6AGW0**
15	3530	254T	17.0	91.0%	23¼"	01536ST3QIE254T-W22	**6AGW1**
	1800	254TC	18.0	92.4%	23⅜"	01518ST3QIE254TC-W22	**12N942**
	1765	254T	18.0	92.4%	23¼"	01518ST3QIE254T-W22	**6AGW2**
	1200	284TC	17.9	91.7%	26⅜"	01512ST3QIE284TC-W22	**12N943**
20	3520	256T	23.2	91.0%	25"	02036ST3QIE256T-W22	**6AGW4**
	1800	256TC	24.1	93.0%	25"	02018ST3QIE256TC-W22	**12N944**
	1765	256T	24.1	93.0%	25"	02018ST3QIE256T-W22	**6AGW5**
	1200	286TC	24.2	91.7%	27⅛"	02012ST3QIE286TC-W22	**12N945**
	1175	286T	24.2	91.7%	27 15/16"	02012ST3QIE286T-W22	**6AGW6**
25	3535	284TS	28.5	91.7%	25⅛"	02536ST3QIE284TS-W22	**6AGW7**
	1800	284TC	29.5	93.6%	26⅜"	02518ST3QIE284TC-W22	**12N946**
	1765	284T	29.5	93.6%	26⅛"	02518ST3QIE284T-W22	**6AGW8**
	1200	324TC	30.4	93.0%	29⅝"	02512ST3QIE324TC-W22	**12N947**
30	3535	286TS	33.8	91.7%	26⅝"	03036ST3QIE286TS-W22	**6AGX0**
	1800	286TC	35.1	93.6%	27⅞"	03018ST3QIE286TC-W22	**12N948**
	1765	286T	35.1	93.6%	27 15/16"	03018ST3QIE286T-W22	**6AGX1**
	1200	326TC	35.8	93.0%	31⅛"	03012ST3QIE326TC-W22	**12N949**
	1180	326T	35.8	93.0%	31⅛"	03012ST3QIE326T-W22	**6AGX2**
40	1775	324T	48.2	94.1%	29⅝"	04018ST3QIE324T-W22	**6AGX4**
	1180	364/5T	46.5	94.1%	34¼"	04012ST3QIE364T-W22	**6AGX5**
50	3550	326TS	56.1	93.0%	29⅝"	05036ST3QIE326TS-W22	**6AGX6**
	1775	326T	59.2	94.5%	31⅛"	05018ST3QIE326T-W22	**6AGX7**
	1180	364/5T	57.4	94.1%	34¼"	05012ST3QIE365T-W22	**6AGX8**
60	3600	364/5TS	67.0	93.6%	32¼"	06036ST3QIE364TS-W22	**15G077**
75	3600	364/5TS	81.9	93.6%	32¼"	07536ST3QIE365TS-W22	**15G079**
100	3600	404/5TS	110.0	94.1%	36¾"	10036ST3QIE405TS-W22	**15G082**
	1800	404/5T	111.0	95.4%	39¾"	10018ST3QIERB405T-W2	**15G081**



Face-Mount

Rigid Base-Mount

marathon Motors

1-Phase Hazardous Location Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: auto, except thermostat for Nos. 2NLE6 and 2NLE9
- Bearings: ball
- Max. ambient temp.: 40°C

Motors have sturdy rolled-steel frames and meet the National Electrical Code for hazardous locations. Unmounted conduit box is included with all 56-frame motors. Use to power fans, blowers, pumps, or air compressors in areas that meet the National Electrical Code for hazardous locations. UL Listed and CSA Certified.

Note: For assistance with hazardous location classification, see page 6.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Length Less Shaft	Hazardous Loc. Class & Group	Mfr. Model	Item No.
Capacitor-Start, Face-Mount										
¼	1140	56CZ	115/208-230	6.8/3.1-3.4	1.00	B	11⅞"	1 C,D / 2 E,F,G	056C11G15504	**1TUL4** ‡
⅓	3450	56C	115/208-230	7.0/3.2-3.5	1.00	B	11⅜"	1 C,D / 2 E,F,G	056C34G15521	**1TUK4** *
	1725	56C	115/208-230	6.6/3.1-3.3	1.00	B	11⅜"	1 C,D / 2 E,F,G	056C17G15526	**1TUN8**
½	3450	56C	115/208-230	8.4/4.0-4.2	1.00	B	11⅜"	1 C,D / 2 E,F,G	056C34G15514	**1TUK5**
	1725	56C	115/208-230	8.8/4.2-4.4	1.00	B	11⅞"	1 C,D / 2 E,F,G	056C17G15524	**1TUN9**
¾	3450	56C	115/208-230	10.6/5.3-5.3	1.00	B	11⅞"	1 C,D / 2 E,F,G	056C34G15516	**1TUK6**
	1725	56C	115/208-230	11.0/5.4-5.5	1.00	B	12⅜"	1 C,D / 2 E,F,G	056C17G15530	**1TUP1**
1	3450	56C	115/208-230	12.4/6.7-6.2	1.00	B	12⅜"	1 C,D / 2 E,F,G	056C34G15513	**1TUK7**
	1725	56C	115/208-230	13.4/6.8-6.7	1.00	B	12⅜"	1 C,D / 2 E,F,G	056C17G15516	**1TUK8**
Capacitor-Start/Run, Face-Mount										
½	1140	56CZ	115/208-230	9.6/4.7-4.8	1.00	B	12⅞"	1 C,D / 2 E,F,G	056B11G15506	**1TUL5** ‡
1½	1725	56C	115/208-230	15.6/8.1-7.8	1.15	B	14⅜"	1 C,D / 2 F,G	056B17G15510	**2NLE6**
Capacitor-Start, Face/Base-Mount										
⅓	1725	56C	115/208-230	6.6/3.1-3.3	1.00	B	11⅜"	1 C,D / 2 F,G	056C17G5324	**2NKY9**
½	3450	56C	115/208-230	8.4/4.0-4.2	1.00	B	11⅜"	1 C,D / 2 F,G	056C34G15523	**2NLE7**
	1725	56C	115/208-230	8.8/4.4-4.2	1.15	F	11⅞"	1 C,D / 2 F,G	056C17G5328	**2NKZ1**
¾	3450	56C	115/208-230	10.6/5.3-5.3	1.00	B	11⅞"	1 C,D / 2 F,G	056C34G5314	**2NKZ2**
	1725	56C	115/208-230	11.0/5.4-5.5	1.00	B	12⅜"	1 C,D / 2 F,G	056C17G5326	**2NKZ3**
1	3450	56C	115/208-230	12.4/6.7-6.2	1.00	B	12⅜"	1 C,D / 2 F,G	056C34G15524	**2NLE8**
	1725	56C	115/208-230	13.4/6.8-6.7	1.00	B	12⅜"	1 C,D / 2 F,G	056C17G5327	**2NKZ4**
Capacitor-Start/Run, Face/Base-Mount										
1½	1760	143TC	115/208-230	15.6/8.1-7.8	1.15	B	14⅜"	1 C,D / 2 F,G	143TBGR14033	**2NLE9**
Capacitor-Start, Rigid Base-Mount										
¼	1725	56	115/208-230	4.8/2.3-2.4	1.00	B	10"	1 C,D / 2 E,F,G	056C17E15503	**1TUL8** *
	1725	48	115/230	4.2/2.1	1.00	B	9⅛"	1 D / 2 F,G	5KC36PNB169	**3K793** *
	1140	56	115/208-230	6.8/3.1-3.4	1.00	B	12"	1 C,D / 2 E,F,G	056C11G15502	**1TUL1**
⅓	3450	56	115/208-230	7.0/3.2-3.5	1.00	B	11½"	1 C,D / 2 E,F,G	056C34G15520	**1TUN4**
	1725	56	115/208-230	6.6/3.1-3.3	1.00	B	11½"	1 C,D / 2 E,F,G	056C17G15521	**1TUL9**
	1140	56	115/208-230	7.8/3.6-3.9	1.00	B	12"	1 C,D / 2 E,F,G	056C11G15503	**1TUL2**
½	3450	56	115/208-230	8.4/4.0-4.2	1.00	B	11½"	1 C,D / 2 E,F,G	056C34G15515	**1TUN5**
	1725	56	115/208-230	8.8/4.2-4.4	1.00	B	12"	1 C,D / 2 E,F,G	056C17G15523	**1TUN1**
¾	3450	56	115/208-230	10.6/5.3-5.3	1.00	B	12"	1 C,D / 2 E,F,G	056C34G15517	**1TUN6**
	1725	56	115/208-230	11.0/5.4-5.5	1.00	B	12½"	1 C,D / 2 E,F,G	056C17G15525	**1TUN2**
1	3450	56	115/208-230	12.4/6.7-6.2	1.00	B	12½"	1 C,D / 2 E,F,G	056C34G15518	**1TUN7**
	1725	56H	115/208-230	13.4/6.8-6.7	1.00	B	12⅛"	1 C,D / 2 E,F,G	056C17G15527	**1TUN3**
Capacitor-Start/Run, Rigid Base-Mount										
½	1140	56	115/208-230	9.6/4.7-4.8	1.00	B	13"	1 C,D / 2 E,F,G	056B11G15505	**1TUL3**
1½	1725	56H	208-230	8.1-7.8	1.00	B	14⅛"	1 C,D / 2 E,F,G	056B17G15506	**1TUL6**
Split-Phase, Rigid Base-Mount										
¼	1725	56	115	5.4	1.00	B	10"	1 C,D / 2 E,F,G	056S17E15501	**1TUP2** *

**** Totally enclosed nonventilated. ‡ Shaft is ⅝" x 2¼".***

marathon™ Motors

3-Phase Hazardous-Location Motors

- Rotation: CW/CCW
- Bearings: ball
- Temp. code: T3B
- Max. ambient temp.: 40°C
- Duty: continuous

Unmounted conduit box is included with all 56 frame motors. Totally Enclosed Nonventilated motors include an unmounted conduit box. Can be used to power fans, blowers, pumps, or air compressors in areas that meet the National Electrical Code for hazardous locations. UL Listed and CSA Certified.

Note: For assistance with hazardous location classification, see page 6.



Face/Rigid Base-Mount, Cast-Iron, Totally Enclosed Fan-Cooled



Face-Mount, Rolled Steel, Totally-Enclosed Nonventilated



Rigid Base-Mount, Cast-Iron, Totally Enclosed Fan-Cooled

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Hz	Full Load Amps	Service Factor	Ins. Class	Nom. Efficiency	Hazardous Loc. Class & Group	Mfr. Model	Item No.
Face-Mount, Cast-Iron Frame, Totally Enclosed Fan-Cooled												
3	1765	182/4TC	T-Stat	230/460	60/50	8.0/4.0	1.00	F	89.5%	1 D / 2 F,G	182TTGN4068	**5VYF3**
5	3495	182TC	T-Stat	230/460	60/50	12.4/6.2	1.00	F	88.5%	1 D / 2 F,G	184TTGN16004	**52XR74**
	1755	182TC	T-Stat	230/460	60/50	12.4/6.2	1.00	B	86.5%	1 D / 2 F,G	184TTGN16027	**52XR81**
10	1765	213TC	T-Stat	230/460	60/50	26.6/13.3	1.00	F	93.6%	1 D / 2 F,G	215TTGND16029	**52XR83**
Face-Mount, Rolled Steel Frame, Totally Enclosed Fan-Cooled												
⅓	1725	56C	Auto	230/460	60/50	1.2/0.60	1.00	B	87.5%	1 C,D / 2 E,F,G	056T17E15515	**1TUE9**
½	3450	56C	Auto	208-230/460	60	2.1-2.4/1.2	1.00	B	66.5%	1 C,D / 2 E,F,G	056T34G15545	**1TTZ9**
	1725	56C	Auto	230/460	60/50	2.4/1.2	1.00	B	85.5%	1 C,D / 2 E,F,G	056T17G15536	**1TUG1**
	1140	56C	Auto	208-230/460	60	2.4-2.7/1.35	1.15	B	85.5%	1 C,D / 2 E,F,G	056T11G15512	**1TUA1**
¾	3450	56C	Auto	230/460	60	3.0-3.2/1.6	1.15	B	74.0%	1 C,D / 2 E,F,G	056T34G15541	**1TUA2**
	1725	56C	Auto	230/460	60/50	3.0/1.5	1.00	B	86.5%	1 C,D / 2 E,F,G	056T17G15537	**1TUG2**
	1140	56C	Auto	230/460	60	3.2-3.2/1.6	1.15	B	85.5%	1 C,D / 2 E,F,G	056T11G15513	**1TUA3**
Face-Mount, Rolled Steel Frame, Totally Enclosed Nonventilated												
¼	1725	56C	T-Stat	208-230/460	60	1.1-1.1/0.55	1.00	B	87.5%	1 C,D / 2 F,G	056T17E5310	**39P314**
Rigid Base-Mount, Cast-Iron Frame, Totally Enclosed Fan-Cooled												
1	1735	143TC	T-Stat	230/460	60/50	3.0-3.0/1.5	1.15	F	86.5%	1 D / 2 F,G	143TTGN6551	**39P309**
	1735	143T	T-Stat	230/460	60	3.0/1.5	1.15	F	85.5%	1 C,D / 2 F,G	143TTGN6532	**39P279**
	1155	145T	T-Stat	230/460	60/50	3.6/1.8	1.15	F	82.5%	1 D / 2 F,G	145TTGN6576	**39P280**
1½	3515	143T	T-Stat	230/460	60/50	4.0/2.0	1.15	F	85.5%	1 D / 2 F,G	143TTGN6501	**39P281**
	1755	145TC	T-Stat	230/460	60/50	4.6/2.3	1.15	F	86.5%	1 D / 2 F,G	145TTGN6536	**39P310**
	1755	145T	T-Stat	230/460	60/50	4.6/2.3	1.15	F	86.5%	1 C,D / 2 F,G	145TTGN16532	**39P282**
	1175	182/4T	T-Stat	230/460	60/50	4.4/2.2	1.15	F	87.5%	1 D / 2 F,G	182TTGN6576	**5VYF2**
2	3500	145T	T-Stat	230/460	60/50	5.2/2.6	1.15	F	86.5%	1 D / 2 F,G	145TTGN6501	**39P283**
	1760	145T	T-Stat	230/460	60	6.0/3.0	1.15	F	86.5%	1 C,D / 2 F,G	145TTGN6550	**39P284**
	1755	145TC	T-Stat	230/460	60/50	6.0/3.0	1.15	F	86.5%	1 D / 2 F,G	145TTGN6549	**39P311**
3	3525	182/4T	T-Stat	230/460	60/50	7.6/3.8	1.15	F	87.5%	1 D / 2 F,G	182TTGN6501	**5VYF0**
	1765	182/4T	T-Stat	230/460	60	8.0/4.0	1.00	B	75.5%	1 C,D / 2 F,G	182TTGN16542	**5VYE9**
	1170	213/5T	T-Stat	230/460	60/50	8.8/4.4	1.15	F	90.2%	1 D / 2 F,G	213TTGN6576	**5VYG2**
5	3505	182/4T	T-Stat	230/460	60/50	11.8/5.9	1.15	F	88.5%	1 D / 2 F,G	184TTGN6501	**5VYF5**
	1755	182/4T	T-Stat	230/460	60/50	12.4/6.2	1.15	F	88.5%	1 C,D / 2 F,G	184TTGN6526	**5VYF4**
	1170	215T	T-Stat	230/460	60/50	13.8/6.9	1.15	F	89.5%	1 D / 2 F,G	215TTGND6576	**482R15**
7½	3525	213T	T-Stat	230/460	60/50	18.2/9.1	1.15	F	89.5%	1 D / 2 F,G	213TTGND6501	**482P88**
	1175	254T	T-Stat	230/460	60/50	19.8/9.9	1.15	F	92.4%	1 C,D / 2 F,G	254TTGN6576	**5VYG7**
10	1765	215T	None	230/460	60	26.6/13.3	1.15	F	91.7%	1 C,D / 2 F,G	215TTGND6526	**454X77**
	1765	215TC	T-Stat	230/460	60/50	26.6/13.3	1.15	F	91.7%	1 C,D / 2 F,G	215TTGND6528	**482R13**
	1180	256T	T-Stat	230/460	60/50	26.2/13.1	1.15	F	89.5%	1 C,D / 2 F,G	256TTGN6576	**5VYG9**
15	3550	254T	T-Stat	230/460	60/50	35.0/17.5	1.15	F	94.1%	1 C,D / 2 F,G	254TTGN6507	**6KWG6**
	1775	254T	T-Stat	230/460	60/50	37.5/18.8	1.15	F	94.1%	1 C,D / 2 F,G	254TTGN6531	**5VYG6**
	1180	284T	T-Stat	230/460	60/50	41.0/20.4	1.15	F	94.5%	1 C,D / 2 F,G	284TTGN6576	**5VYH0**
20	3540	256T	T-Stat	230/460	60/50	47.0/23.4	1.15	F	94.1%	1 C,D / 2 F,G	256TTGN16509	**5VYG8**
	1775	256T	T-Stat	230/460	60/50	48.0/24.1	1.15	F	90.2%	1 C,D / 2 F,G	256TTGN6531	**6KWG9**
	1175	284/6T	T-Stat	230/460	60	53.5/26.8	1.15	F	94.5%	1 C,D / 2 F,G	286TTGN16577	**5VYH1**
25	3560	284TS	T-Stat	230/460	60/50	57.5/28.8	1.15	F	94.5%	1 C,D / 2 F,G	284TSTGN6503	**6KWH1**
	1770	284T	T-Stat	230/460	60/50	62.0/31.0	1.15	F	94.5%	1 C,D / 2 F,G	284TTGN6533	**6KWH2**
	1180	324T	T-Stat	230/460	60/50	65.0/32.5	1.15	F	95.8%	1 C,D / 2 F,G	324TTGS16577	**5VYH6**
30	3555	286TS	T-Stat	230/460	60/50	67.0/33.5	1.15	F	93.6%	1 C,D / 2 F,G	286TSTGN6501	**6KWH4**
	1180	324/6T	T-Stat	230/460	60/50	77.0/38.5	1.15	F	95.8%	1 C,D / 2 F,G	326TTGS6578	**5VYJ0**
40	3545	324TS	T-Stat	230/460	60/50	94.0/47.0	1.15	F	95.4%	1 C,D / 2 F,G	324TSTGS6501	**6KWH5**
	1780	324T	T-Stat	230/460	60/50	95.0/47.5	1.15	F	95.4%	1 C,D / 2 F,G	324TTGS6529	**6KWH6**
	1185	364T	T-Stat	230/460	60/50	100.0/50.0	1.15	F	72.4%	1 C,D / 2 F,G	364TTGS16577	**5VYJ1**
50	3555	326TS	T-Stat	230/460	60/50	118.0/59.0	1.15	F	95.8%	1 C,D / 2 F,G	326TSTGS6501	**5VYH7**
	1780	324/6T	T-Stat	230/460	60/50	123.0/61.5	1.15	F	95.8%	1 C,D / 2 F,G	326TTGS6532	**5VYH8**
	1180	365T	T-Stat	230/460	60	123.0/61.5	1.15	F	82.6%	1 C,D / 2 F,G	365TTGS16577	**5VYJ2**
Rigid Base-Mount, Rolled Steel Frame, Totally Enclosed Fan-Cooled												
⅓	1725	56	Auto	230/460	60/50	1.2/0.60	1.00	B	85.5%	1 C,D / 2 E,F,G	056T17E15516	**1TUE4**
	1140	56	Auto	208-230/460	60	1.5-1.5/0.75	1.15	B	76.5%	1 C,D / 2 E,F,G	056T11G15515	**1TUD1**
½	3450	56	Auto	208-230/460	60	2.1-2.4/1.2	1.00	B	66.5%	1 C,D / 2 E,F,G	056T34G15543	**1TUD2**
	1725	56	Auto	208-230/460	60/50	2.3-2.4/1.2	1.00	B	86.5%	1 C,D / 2 E,F,G	056T17G15550	**1TUE5**
	1140	56	Auto	208-230/460	60	2.4-2.7/1.3	1.15	B	82.5%	1 C,D / 2 E,F,G	056T11G15517	**1TUD3**
¾	3450	56	Auto	230/460	60	3.0-3.2/1.6	1.15	B	74.0%	1 C,D / 2 E,F,G	056T34G15539	**1TUD4**
	1725	56	Auto	230/460	60/50	3.0/1.5	1.00	B	86.5%	1 C,D / 2 E,F,G	056T17G15551	**1TUE6**
	1140	56H	Auto	230/460	60	3.2-3.2/1.6	1.15	B	81.1%	1 C,D / 2 E,F,G	056T11G15518	**1TUD6**
1	1765	143T	T-Stat	230/460	60	3.3/1.65	1.00	B	81.5%	1 C,D / 2 E,F,G	143TTGR16026	**6KWE7**
	1725	56H	Auto	208-230/460	60	3.3-3.2/1.6	1.00	B	86.5%	1 C,D / 2 E,F,G	056T17G15604	**407M09**
1½	3515	145T	T-Stat	230/460	60	4.0/2.0	1.00	F	92.1%	1 C,D / 2 E,F,G	145TTGR16005	**6KWG0**
	1755	145T	T-Stat	230/460	60	4.6/2.3	1.15	F	81.5%	1 C,D / 2 E,F,G	145TTGR16038	**6KWF5**
	1725	56H	Auto	230/460	60	4.8/2.4	1.15	B	85.5%	1 C,D / 2 E,F,G	056T17G15606	**407M10**
2	3500	145T	T-Stat	230/460	60	5.0/2.5	1.15	F	91.7%	1 C,D / 2 E,F,G	145TTGR16002	**6KWF0**
	1760	145T	T-Stat	230/460	60	6.0/3.0	1.15	F	75.5%	1 C,D / 2 E,F,G	145TTGR16040	**6KWF6**
	1725	56H	Auto	230/460	60	6.0/3.0	1.15	B	86.5%	1 C,D / 2 E,F,G	056T17G15608	**407M08**
Rigid Base-Mount, Rolled Steel Frame, Totally Enclosed Nonventilated												
¼	1735	48	T-Stat	230/460	60	1.2/0.60	1.00	B	87.5%	1 D / 2 F,G	5K32GNB249	**39P312**
	1725	56	T-Stat	208-230/460	60	1.1-1.1/0.55	1.00	B	87.5%	1 C,D / 2 F,G	056T17E5308	**39P313**

For assistance with motor selection, see pages 3 to 7.

3-Phase NEMA Premium® Efficient Cooling Tower Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: none
- Service factor: 1.25
- Insulation: Class F, with B temperature rise for longer life
- Inverter rated
- Mounting: rigid base
- Frame material: cast-iron
- Bearings: ball
- Max. ambient temp.: 40°C
- Usable at 208V
- Warranty: 3 yr.

Note: Motors are suitable for use at 50 Hz at rated HP and 1.25 service factor.



F1 Conduit Box Position



F2 Conduit Box Position

Durable synthetic enamel alkyd resin paint resists corrosion. V-ring slingers and umbrella seal on both endshields protect bearings from moisture and contaminants. Multiple endbell drains provide for shaft-up, -down, or -horizontal mounting. Include threaded conduit box with automatic drain and rubber lead separators at the motor frame. Stainless steel laser-etched nameplate maintains information over long life. Suitable for operation in 100% humidity and corrosive environments. For use in cooling tower applications where the motor is mounted in the airstream. Meet IP55 enclosure rating. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
F1 Conduit Box Position								
1	1760	143T	230/460	2.8/1.4	85.5%	13⅜"	00118ET3ECT143TF1-W2	**19C670**
1½	1755	145T	200	4.7	86.5%	13⅜"	00158ET3PCT145TF1-W2	**19C671**
	1755	145T	230/460	4.04/2.02	86.5%	13⅜"	00158ET3ECT145TF1-W2	**19C672**
2	1750	145T	200	6.0	86.5%	13⅜"	00218ET3PCT145TF1-W2	**19C673**
	1750	145T	230/460	5.2/2.6	86.5%	13⅜"	00218ET3ECT145TF1-W2	**19C674**
3	1760	182T	200	8.9	89.5%	14⅞"	00318ET3PCT182TF1-W2	**19C675**
	1760	182T	230/460	7.8/3.9	89.5%	14⅞"	00318ET3ECT182TF1-W2	**19C676**
5	1755	184T	200	14.8	89.5%	15⅞"	00518ET3PCT184TF1-W2	**19C677**
	1755	184T	230/460	14.3/12.9-6.45	89.5%	15⅞"	00518ET3ECT184TF1-W2	**19C678**
7½	1765	213T	200	20.7	91.7%	18"	00718ET3PCT213TF1-W2	**19C679**
	1765	213T	230/460	18.0/9.0	91.7%	18"	00718ET3ECT213TF1-W2	**19C680**
10	1760	215T	200	28.5	91.7%	19½"	01018ET3PCT215TF1-W2	**19C681**
	1760	215T	230/460	24.8/12.4	91.7%	19½"	01018ET3ECT215TF1-W2	**19C682**
	1175	256T	230/460	25.8/12.9	91.0%	25"	01012ET3ECT256TF1-W2	**19C683**
15	1765	254T	200	41.4	92.4%	23¼"	01518ET3PCT254TF1-W2	**19C684**
	1765	254T	230/460	36.0/18.0	92.4%	23¼"	01518ET3ECT254TF1-W2	**19C685**
20	1765	256T	200	55.4	93.0%	25"	02018ET3PCT256TF1-W2	**19C686**
	1765	256T	230/460	48.2/24.1	93.0%	26 7/16"	02018ET3ECT256TF1-W2	**19C687**
25	1765	284T	200	67.9	93.6%	26 7/16"	02518ET3PCT284TF1-W2	**19C688**
	1765	284T	230/460	59.0/29.5	93.6%	26 7/16"	02518ET3ECT284TF1-W2	**19C689**
30	1765	286T	200	80.7	93.6%	27⅞"	03018ET3PCT286TF1-W2	**19C690**
	1765	286T	230/460	70.2/35.1	93.6%	27⅞"	03018ET3ECT286TF1-W2	**19C691**
40	1775	324T	200	111.0	94.1%	29⅝"	04018ET3PCT324TF1-W2	**19C692**
	1775	324T	230/460	96.4/48.2	94.1%	29⅝"	04018ET3ECT324TF1-W2	**19C693**
F2 Conduit Box Position								
1	1765	143T	230/460	2.82/1.45	85.5%	13⅜"	00118ET3ECT143T-W22	**6EGP2**
	1150	145T	230/460	3.5/1.75	82.5%	13⅜"	00112ET3ECT145T-W22	**6EGP3**
1½	1760	145T	230/460	4.0/2.0	86.5%	13⅜"	00158ET3ECT145T-W22	**6EGP4**
	1165	182T	230/460	4.8/2.4	87.5%	14⅞"	00152ET3ECT182T-W22	**6EGP5**
2	1755	145T	230/460	5.2/2.6	86.5%	13⅜"	00218ET3ECT145T-W22	**6EGP6**
	1165	184T	230/460	6.5/3.25	88.5%	15⅞"	00212ET3ECT184T-W22	**6EGP7**
3	1760	182T	230/460	7.8/3.9	89.5%	14⅞"	00318ET3ECT182T-W22	**6EGP8**
	1170	213T	230/460	8.8/4.4	89.5%	18 1/16"	00312ET3ECT213T-W22	**6EGP9**
5	1755	184T	200	14.8	89.5%	15⅞"	00518ET3PCT184T-W22	**6EGR0**
	1755	184T	230/460	12.8/6.4	89.5%	15⅞"	00518ET3ECT184T-W22	**6EGR1**
	1160	215T	200	15.7	89.5%	19 9/16"	00512ET3PCT215T-W22	**6EGR2**
	1160	215T	230/460	13.7/6.8	89.5%	19 9/16"	00512ET3ECT215T-W22	**6EGR3**
7½	1770	213T	200	20.7	91.7%	18 1/16"	00718ET3PCT213T-W22	**6EGR4**
	1770	213T	230/460	19.9-18/9	91.7%	18 1/16"	00718ET3ECT213T-W22	**6EGR5**
	1170	254T	200	22.4	91.0%	23¼"	00712ET3PCT254T-W22	**6EGR6**
	1170	254T	230/460	21.0-19.0/9.5	91.0%	23¼"	00712ET3ECT254T-W22	**6EGR7**
10	1765	215T	200	28.5	91.7%	19 9/16"	01018ET3PCT215T-W22	**6EGR8**
	1765	215T	230/460	25.2/12.6	91.7%	19 9/16"	01018ET3ECT215T-W22	**6EGR9**
	1170	256T	200	29.7	91.0%	25"	01012ET3PCT256T-W22	**6EGT0**
	1170	256T	230/460	26.5/12.9	91.0%	25"	01012ET3ECT256T-W22	**6EGT1**
15	1765	254T	200	41.4	92.4%	23¼"	01518ET3PCT254T-W22	**6EGT2**
	1765	254T	230/460	36.0/18.0	92.4%	23¼"	01518ET3ECT254T-W22	**6EGT3**
	1180	284T	200	41.2	91.7%	26 7/16"	01512ET3PCT284T-W22	**6EGT4**
	1180	284T	230/460	35.8/17.9	91.7%	26 7/16"	01512ET3ECT284T-W22	**6EGT5**
20	1765	256T	200	55.4	93.0%	25"	02018ET3PCT256T-W22	**6EGT6**
	1765	256T	230/460	48.2/24.1	93.0%	25"	02018ET3ECT256T-W22	**6EGT7**
	1180	286T	200	55.7	91.7%	28"	02012ET3PCT286T-W22	**6EGT8**
	1180	286T	230/460	48.4/24.2	91.7%	28"	02012ET3ECT286T-W22	**6EGT9**
25	1770	284T	200	67.9	93.6%	26 7/16"	02518ET3PCT284T-W22	**6EGU0**
	1765	284T	230/460	59.0/29.5	93.6%	26 7/16"	02518ET3ECT284T-W22	**6EGU1**
	1175	324T	200	69.9	93.0%	29⅝"	02512ET3PCT324T-W22	**6EGU2**
	1175	324T	230/460	60.8/30.4	93.0%	29⅝"	02512ET3ECT324T-W22	**6EGU3**
30	1765	286T	200	80.7	93.6%	28"	03018ET3PCT286T-W22	**6EGU4**
	1765	286T	230/460	70.2/35.1	93.6%	28"	03018ET3ECT286T-W22	**6EGU5**
	1175	326T	200	82.2	93.0%	31⅛"	03012ET3PCT326T-W22	**6EGU6**
	1175	326T	230/460	71.6/35.8	93.0%	31⅛"	03012ET3ECT326T-W22	**6EGU7**
40	1775	324T	230/460	96.5/48.3	94.1%	29⅝"	04018ET3ECT324T-W22	**6EGU8**
	1185	364T	230/460	94.2/47.1	94.1%	33⅛"	04012ET3ECT364T-W22	**6EGU9**
50	1780	326T	230/460	118.0/59.2	94.5%	31⅛"	05018ET3ECT326T-W22	**6EGV0**
	1180	365T	230/460	115.0/57.4	94.1%	34¼"	05012ET3ECT365T-W22	**6EGV1**
60	1780	364T	230/460	137.0/68.4	95.0%	34¼"	06018ET3ECT364T-W22	**6EGV2**
	1180	404T	230/460	141.0/70.4	94.5%	39¾"	06012ET3ECT404T-W22	**6EGV3**
75	1775	365T	230/460	168.0/84.1	95.4%	34¼"	07518ET3ECT365T-W22	**6EGV4**
	1180	405T	230/460	170.0/84.9	94.5%	39¾"	07512ET3ECT405T-W22	**6EGV5**
100	1775	405T	230/460	222.0/111.0	95.4%	39¾"	10018ET3ECT405T-W22	**6EGV6**
	1190	444T	230/460	242.0/121.0	95.0%	45¼"	10012ET3ECT444T-W22	**6EGV7**

FIND MORE ONLINE
Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!

1- and 3-Phase Stainless Steel Washdown Motors

- Rotation: CW/CCW
- Thermal protection: none, except Nos. 12V772 to 12V775 are auto
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C

1-phase models are built to comply with NEMA MG1-1.26.6. All exterior components are 300 Series stainless steel to provide maximum corrosion resistance in severe-duty and washdown environments. Motors are well-sealed against moisture and condensation to protect internal components, and exteriors are completely paint- and coating-free. Heavy polyester insulating varnish applied to the windings for extra moisture and corrosion resistance. Moisture-resistant sealant between frame and endbells. Double-sealed oversized bearings with rust-inhibitive grease. Shaft-end bearing is locked internally to limit axial endplay. 4 drains in each endshield allow drainage of condensation in any mounting position. For use in the food processing, chemical processing, and beverage industries. UL Recognized, CSA Certified. 3-phase models are also CE Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Item No.
1-Phase										
Totally Enclosed Fan-Cooled, Face-Mount										
¾	1745	56C	115/208-230	7.6/4.0-3.8	1.15	78.0%	⅝"	1⅞"	13⅛"	**11G244**
1	1745	56C	115/208-230	11.2 /5.8-5.6	1.15	66.0%	⅝"	1⅞"	13⅝"	**11G245**
1½	1745	56C	115/208-230	14.8/7.6-7.4	1.15	81.0%	⅝"	1⅞"	14⅜"	**11G246**
2	3450	56C	208-230	8.9-7.4	1.15	83.0%	⅝"	1⅞"	14⅜"	**11G247**
	1745	56C	208-230	9.9-8.5	1.00	80.0%	⅝"	1⅞"	14⅞"	**11G248**
Totally Enclosed Fan-Cooled, Face/Base-Mount										
½	1745	56HC	115/208-230	5.0/2.6-2.5	1.15	77.3%	⅝"	1⅞"	13⅛"	**11G252**
¾	1745	56HC	115/208-230	7.6/4.0-3.8	1.15	78.0%	⅝"	1⅞"	13⅛"	**11G253**
1	1745	56HC	115/208-230	11.2 /5.8-5.6	1.15	66.0%	⅝"	1⅞"	13⅝"	**11G254**
1½	1745	56HC	115/208-230	14.8/7.6-7.4	1.15	81.0%	⅝"	1⅞"	14⅜"	**11G255**
2	3450	56HC	208-230	8.9-7.9	1.15	83.0%	⅝"	1⅞"	14⅜"	**11G256**
	1745	56HC	208-230	9.9-8.5	1.00	80.0%	⅝"	1⅞"	14⅞"	**11G257**
Totally Enclosed Air-Over, Yoke-Mount										
¼	1075	48YZ	115	3.5	1.00	55.3%	½"	4 1⁄16"	11 9⁄16"	**12V772**
½	1075	48YZ	115	5.8	1.00	63.3%	⅝"	4 1⁄16"	12 9⁄16"	**12V775**
3-Phase, Inverter Duty, 10:1 Variable and 6:1 Constant Torque										
Totally Enclosed Nonventilated, Face-Mount										
½	1745	56C	208-230/460	1.8-1.6/0.8	1.15	82.5%	⅝"	1⅞"	9¾"	**6WY53**
	1155	56C	208-230/460	1.9-1.8/0.9	1.15	80.0%	⅝"	1⅞"	9¾"	**6WY51**
¾	1745	56C	208-230/460	2.3-2.2/1.1	1.15	82.5%	⅝"	1⅞"	9¾"	**6WY55**
	1155	56C	208-230/460	3.8-3.7/1.85	1.15	80.0%	⅝"	1⅞"	11 5⁄16"	**6WY54**
1	1740	56C	230/460	3.0/1.5	1.15	85.5%	⅝"	1⅞"	11 5⁄16"	**6WY57**
Totally Enclosed Nonventilated, Face/Base-Mount										
⅓	3500	56C	208-230/460	1.2-1.1/0.55	1.15	74.0%	⅝"	1⅞"	9⅜"	**6WY29**
	1745	56C	208-230/460	1.4-1.2/0.6	1.15	82.5%	⅝"	1⅞"	9⅞"	**6WY28**
½	3460	56C	208-230/460	1.6-1.5/0.75	1.15	77.0%	⅝"	1⅞"	9⅜"	**6WY32**
	1745	56C	208-230/460	1.8-1.6/0.8	1.15	82.5%	⅝"	1⅞"	9⅞"	**6WY31**
	1155	56C	208-230/460	1.9-1.8/0.9	1.15	80.0%	⅝"	1⅞"	9⅞"	**6WY30**
¾	3500	56C	208-230/460	2.3-2.2/1.1	1.15	80.0%	⅝"	1⅞"	9⅜"	**6WY35**
	1745	56C	208-230/460	2.3-2.2/1.1	1.15	82.5%	⅝"	1⅞"	9⅞"	**6WY34**
	1155	56HC	208-230/460	3.8-3.7/1.85	1.15	80.0%	⅝"	1⅞"	11 7⁄16"	**6WY33**
1	1740	56HC	230/460	3.0/1.5	1.15	85.5%	⅝"	1⅞"	11 7⁄16"	**6WY38**
3-Phase, Inverter Duty, 10:1 Variable and 3:1 Constant Torque										
Totally Enclosed Fan-Cooled, Face-Mount										
1	1750	143TC	230/460	2.9/1.45	1.15	85.5%	⅞"	2¼"	13¼"	**6WY58**
	1165	56C	230/460	4.0/2.0	1.15	82.5%	⅝"	1⅞"	13¼"	**6WY56**
1½	1750	145TC	230/460	4.6/2.3	1.15	86.5%	⅞"	2¼"	13¼"	**6WY60**
	1750	56C	230/460	4.0/2.0	1.15	86.5%	⅝"	1⅞"	13¼"	**6WY59**
2	1750	145TC	230/460	6.0/3.0	1.15	86.5%	⅞"	2¼"	13¼"	**6WY61**
	1750	56C	230/460	6.0/3.0	1.15	86.5%	⅝"	1⅞"	13¼"	**6WY62**
Totally Enclosed Fan-Cooled, Face/Base-Mount										
1	3470	56HC	230/460	2.8/1.4	1.15	77.0%	⅝"	1⅞"	11⅝"	**6WY40**
	1750	143TC	230/460	3.0/1.5	1.15	85.5%	⅞"	2¼"	13 13⁄16"	**4GPR9**
	1165	145TC	230/460	4.0/2.0	1.15	82.5%	⅞"	2¼"	12 9⁄16"	**4GPT1**
	1165	56HC	230/460	4.0/2.0	1.15	82.5%	⅝"	1⅞"	13¼"	**6WY36**
1½	3480	56HC	230/460	4.0/2.0	1.15	84.0%	⅝"	1⅞"	13¼"	**6WY44**
	1750	145TC	230/460	4.0/2.0	1.15	86.5%	⅞"	2¼"	12 9⁄16"	**4GPT2**
	1750	56HC	230/460	4.0/2.0	1.15	86.5%	⅝"	1⅞"	13¼"	**6WY42**
2	3480	145TC	230/460	4.8/2.4	1.15	85.5%	⅞"	2¼"	13 13⁄16"	**4GPT3**
	3480	56HC	230/460	4.8/2.4	1.15	85.5%	⅝"	1⅞"	13¼"	**6WY48**
	1750	145TC	230/460	6.0/3.0	1.15	86.5%	⅞"	2¼"	13 13⁄16"	**4GPT4**
	1750	56HC	230/460	6.0/3.0	1.15	86.5%	⅝"	1⅞"	13¼"	**6WY46**
3-Phase, Inverter Duty, 10:1 Variable and 4:1 Constant Torque										
Totally Enclosed Fan-Cooled, Face/Base-Mount										
3	3510	182TC	230/460	8.1/4.05	1.15	86.5%	1⅛"	2¾"	16 15⁄16"	**2RKY6**
	1765	182TC	230/460	8.0/4.0	1.15	89.5%	1⅛"	2¾"	16 15⁄16"	**2RKY5**
5	3525	184TC	230/460	12.2/6.1	1.15	88.5%	1⅛"	2¾"	16 15⁄16"	**2RKY8**
	1765	184TC	230/460	12.5/6.25	1.15	89.5%	1⅛"	2¾"	16 15⁄16"	**2RKY7**
7½	1755	213TC	230/460	18.6/9.3	1.15	91.7%	1⅜"	3⅜"	21½"	**2RKY9**
10	3525	215TC	230/460	24.4/12.2	1.15	90.2%	1⅜"	3⅜"	22 5⁄16"	**2RKZ3**
	1760	215TC	230/460	24.4/12.2	1.15	91.7%	1⅜"	3⅜"	22 5⁄16"	**2RKZ2**
15	3540	254TC	230/460	37.0/18.5	1.15	91.0%	1⅝"	4"	23¾"	**2RKZ5**
20	3540	256TC	230/460	46.0/23.0	1.15	91.0%	1⅝"	4"	22 5⁄16"	**2RKZ7**



Face-Mount



Face/Base-Mount



Yoke-Mount

3-Phase Wet Environment/Car Wash Motors

marathon™ Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Mounting: face
- Bearings: double-sealed ball
- Max. ambient temp.: 40°C

Use when frequent high-pressure washdown is required. Motors feature 303 stainless steel shafts with contact lip seal and V-ring slinger. UL Recognized and CSA Certified. Nos. 53DE48 to 53DE50 are also CE Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Item No.
¾	1725	56C	230/460	3.0/1.5	1.15	77.0%	**5XB84**
1	1760	56C	230/460	3.2/1.6	1.15	66.5%	**53DE48**
1½	1750	56C	230/460	4.8/2.4	1.15	72.5%	**53DE50**
2	1745	56C	230/460	5.8/2.9	1.00	72.5%	**53DE49**



No. 5XB84

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



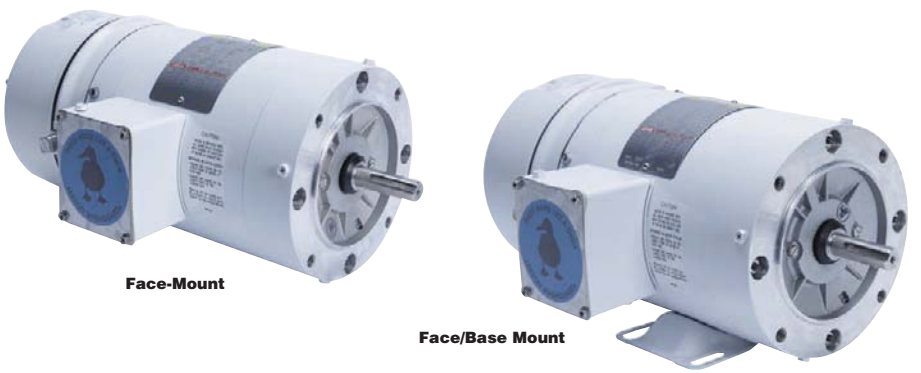
Dayton marathon Motors

1-Phase Washdown Motors

- Rotation: CW/CCW
- Thermal protection: auto on PSC motors; none on capacitor-start
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Built to comply with NEMA standard MG1-1.26.6 for washdown motors. 303 stainless steel shaft. V-ring rotating seal. Double-sealed, oversize bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. White epoxy finish for superior resistance to caustic cleaning solutions. For high humidity/wet environments and areas where motor is occasionally exposed to high-pressure washdowns. UL Recognized, CSA Certified, and USDA Approved paint finish.

HP	Nameplate RPM	Frame	Enclosure	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Brand	Item No.
Permanent Split Capacitor, Yoke-Mount												
¼	1700	56YZ	TEAO	115/230	3.5/1.7	1.00	57.6%	½"	3"	7⅞"	Dayton	**5M063**
⅓	1700	56YZ	TEAO	115/230	4.9/2.5	1.00	60.8%	½"	3"	7⅞"	Dayton	**5M062**
½	1700	56YZ	TEAO	115/230	5.9/2.9	1.00	68.7%	⅝"	3"	7⅞:	Dayton	**5M061**
Capacitor-Start, Face-Mount												
½	3450	56C	TEFC	115/208-230	7.6/4.0-3.8	1.15	63.0%	⅝"	1 5⁄16"	8¾"	Marathon	**1TUR1**
	1725	56C	TEFC	115/208-230	8.8/4.1-4.4	1.15	66.0%	⅝"	1⅞"	9¼"	Marathon	**1TUR5**
¾	3450	56C	TEFC	115/208-230	10.0/5.2-5.0	1.15	64.0%	⅝"	1⅞"	9¼"	Marathon	**1TUR2**
	1725	56C	TEFC	115/208-230	10.8/5.6-5.4	1.15	70.0%	⅝"	1⅞"	9¾"	Marathon	**1TUR7**
1	3450	56C	TEFC	115/208-230	12.0/6.2-6.0	1.15	70.0%	⅝"	1⅞"	9¾"	Marathon	**1TUR3**
	1725	56C	TEFC	115/208-230	12.8/6.6-6.4	1.15	75.0%	⅝"	1⅞"	10¼"	Marathon	**1TUR6**
Capacitor-Start/Run, Face-Mount												
2	1740	56C	TEFC	115/208-230	20.0/10.2-10.0	1.15	80.0%	⅝"	1⅞"	11¾"	Marathon	**1TUP9**
Capacitor-Start, Face/Base-Mount												
½	1725	56C	TEFC	115/208-230	8.8/4.4	1.15	66.0%	⅝"	1⅞"	9¼"	Marathon	**1TUP4**
¾	1725	56C	TEFC	115/208-230	10.8/5.4	1.15	70.0%	⅝"	1⅞"	9¾"	Marathon	**1TUP5**
	3450	56C	TEFC	115/208-230	10.0/5.2-5.0	1.15	64.0%	⅝"	1⅞"	9¼"	Marathon	**1TUR4**
1	1725	56HC	TEFC	115/208-230	12.8/6.4	1.15	75.0%	⅝"	1⅞"	10¼"	Marathon	**1TUP6**
Capacitor-Start/Run, Face/Base-Mount												
1½	1740	56HC	TEFC	115/208-230	14.8/7.8-7.4	1.15	80.0%	⅝"	1⅞"	11¼"	Marathon	**1TUP7**
2	1740	56HC	TEFC	115/208-230	20.0/10.2-10.0	1.15	80.0%	⅝"	1⅞"	11¾"	Marathon	**1TUP8**



LEESON

3-Phase Washdown Brake Motors

- Rotation: CW/CCW
- Service factor: 1.15
- Insulation: Class F
- Bearings: ball
- Max ambient temp.: 40°C
- Duty: continuous

Built to comply with NEMA standard MG1-1.26.6 for washdown motors. Features 303 stainless steel shaft and V-ring rotating seal. Double sealed, oversized bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. White epoxy finish resists caustic cleaning solutions. For use in high humidity, wet environments or where motor is occasionally exposed to high-pressure washdowns. Brake motors are suitable for use in drives for conveyors, food packaging and processing equipment. UL Recognized, CSA Certified, and USDA Approved paint finish.

HP	Nameplate RPM	Frame	Enclosure	Voltage	Full Load Amps	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Includes	Item No.
Face-Mount											
⅓	1725	56C	TENV	230/460	1.3/0.65	72.0%	⅝"	1⅞"	12⅛"	3 ft.-lb. Brake	**48ZF16**
½	1725	56C	TENV	230/460	1.8/0.90	78.5%	⅝"	1⅞"	12⅝"	3 ft.-lb. Brake	**48ZF17**
¾	1725	56C	TENV	230/460	2.5/1.25	80.0%	⅝"	1⅞"	13⅛"	6 ft.-lb. Brake	**48ZF18**
1	1740	143TC	TENV	230/460	2.8/1.4	85.5%	⅞"	2"	15⅜"	6 ft.-lb. Brake	**48ZF19**
	1725	56C	TENV	230/460	2.8/1.4	85.5%	⅝"	2"	15 7⁄16"	6 ft.-lb. Brake	**48ZF20**
1½	1740	145TC	TEFC	230/460	4.8/2.4	86.5%	⅞"	2⅛"	16⅜"	10 ft.-lb. Brake	**48ZF21**
2	1740	145TC	TEFC	230/460	5.8/2.9	86.5%	⅞"	2⅛"	16⅞"	10 ft.-lb. Brake	**48ZF22**
Face/Base-Mount											
⅓	1725	56C	TENV	230/460	1.3/0.65	72.0%	⅝"	1⅞"	12⅛"	3 ft.-lb. Brake	**48ZF09**
½	1725	56C	TENV	230/460	1.8/0.90	78.5%	⅝"	1⅞"	12⅝"	3 ft.-lb. Brake	**48ZF10**
¾	1725	56C	TENV	230/460	2.5/1.3	80.0%	⅝"	1⅞"	13⅛"	6 ft.-lb. Brake	**48ZF11**
1	1740	143TC	TENV	230/460	2.8/1.4	85.5%	⅞"	2⅛"	15⅜"	6 ft.-lb. Brake	**48ZF12**
	1725	56HC	TENV	230/460	2.8/1.4	85.5%	⅝"	2"	15 7⁄16"	6 ft.-lb. Brake	**48ZF13**
1½	1740	145TC	TEFC	230/460	4.8/2.4	86.5%	⅞"	2⅛"	16⅜"	10 ft.-lb. Brake	**48ZF14**
2	1740	145TC	TEFC	230/460	5.8/2.9	86.5%	⅞"	2⅛"	16⅞"	10 ft.-lb. Brake	**48ZF15**

3-Phase Painted Washdown Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C

NEMA premium efficient motors built as washdown motors. Copper windings are cured in protective polyester compound. 303 stainless steel shaft. V-ring rotating seal. Double-sealed, oversize bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. Bearing cavities are packed to help keep moisture out. White epoxy finish provides superior resistance to caustic cleaning solutions. For high humidity/wet environments and areas where motor is occasionally exposed to high-pressure washdowns. UL Recognized, CSA Certified, and USDA Approved paint finish.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
Totally Enclosed Fan-Cooled, Face/Base-Mount										
2	3505	145TC	230/460	4.9/2.4	1.15	86.5%	⅞"	2⅛"	11 13⁄16"	5XAT3 *
	1750	145TC	230/460	5.7/2.8	1.15	86.5%	⅞"	2⅛"	12⅝"	5XAT4 *
3	3535	182TC	230/460	7.4/3.7	1.15	88.5%	1⅛"	2⅝"	16 3⁄64"	5XAT7
	1765	182TC	230/460	7.6/3.8	1.15	89.5%	1⅛"	2⅝"	14⅛"	5XAU0 *
5	1755	184TC	230/460	12.5/6.2	1.15	89.5%	1⅛"	2⅝"	14⅛"	5XAU1
7½	1765	213TC	230/460	18.2/9.1	1.15	91.7%	1⅜"	3⅛"	16¼"	5XAV0 *
10	1760	215TC	230/460	24.0/12.0	1.15	91.7%	1⅜"	3⅛"	17¼"	5XAV1 *
Totally Enclosed Fan-Cooled, Face-Mount										
3	1765	182TC	230/460	7.6/3.8	1.15	89.5%	1⅛"	2⅝"	14⅛"	5XAU5 *
5	3525	184TC	230/460	12.0/6.0	1.15	89.5%	1⅛"	2⅝"	14⅛"	5XAU6 *
	1755	184TC	230/460	12.5/6.2	1.15	89.5%	1⅛"	2⅝"	14⅛"	5XAU7 *
7½	3520	213TC	230/460	17.4/8.7	1.15	91.0%	1⅜"	3⅛"	18¼"	5XAU9 *
	1765	213TC	230/460	18.2/9.1	1.15	91.7%	1⅜"	3⅛"	16¼"	2DAM7
10	3515	215TC	230/460	23.1/11.6	1.15	91.0%	1⅜"	3⅛"	18¼"	2DAM8
	1760	215TC	230/460	23.9/11.9	1.15	91.7%	1⅜"	3⅛"	17¼"	2DAM9
15	3540	215TC	230/460	35.0/17.4	1.15	93.0%	1⅜"	3⅛"	19¼"	2DAN1
Totally Enclosed Fan-Cooled, Rigid Base-Mount										
½	1750	56	230/460	1.6./0.8	1.15	78.5%	⅝"	1⅞"	11½"	2DAK7
¾	1745	56	230/460	2.3/1.2	1.15	81.5%	⅝"	1⅞"	11½"	2DAK8
1	1750	143T	230/460	3.0/1.5	1.15	85.5%	⅞"	2⅜"	11½"	5XAT8 *
1½	1755	145T	230/460	4.3/2.1	1.15	86.5%	⅞"	2 5⁄16"	12"	5XAT9 *
2	1750	145T	230/460	5.7/2.8	1.15	86.5%	⅞"	2⅜"	12"	5XAT5 *
3	1765	182T	230/460	7.6/3.8	1.15	89.5%	1⅛"	3"	12¾"	5XAU2 *
5	3525	184T	230/460	12.1/6.1	1.15	89.5%	1⅛"	3"	12¾"	5XAU3 *
	1755	184T	230/460	12.5/6.2	1.15	89.5%	1⅛"	3"	12¾"	5XAU4 *
7½	3520	213T	230/460	17.4/8.7	1.15	91.0%	1⅜"	3⅝"	16⅝"	5XAU8 *
	1765	213T	230/460	18.2/9.1	1.15	91.7%	1⅜"	3⅝"	14⅝"	5XAV2 *
10	1760	215T	230/460	24.0/12.0	1.15	91.7%	1⅜"	3⅝"	15⅝"	5XAV3 *
Totally Enclosed Nonventilated, Face/Base-Mount										
½	3550	56C	230/460	1.4/0.7	1.15	82.5%	⅝"	2"	9 11⁄16"	1TRZ7
	1750	56C	230/460	1.6/0.8	1.15	80.0%	⅝"	2"	9¼"	1TRZ3
¾	3500	56C	230/460	2.0/1.0	1.15	80.0%	⅝"	2"	9¼"	1TRZ8
	1745	56C	230/460	2.3/1.2	1.15	81.5%	⅝"	2"	9¼"	1TRZ4
1	3520	56C	230/460	2.5/1.3	1.15	85.5%	⅝"	2"	9 11⁄16"	1TRZ9
	1750	143TC	230/460	3.0/1.5	1.15	85.5%	⅞"	2⅛"	10 3⁄16"	1TRZ2
	1750	56C	230/460	3.0/1.5	1.15	85.5%	⅝"	2"	10¼"	1TRZ6
1½	3505	56HC	230/460	3.6/1.8	1.15	86.5%	⅝"	2"	10¾"	1TTA1
	1750	145TC	230/460	4.3/2.1	1.15	86.5%	⅞"	2⅛"	10 11⁄16"	1TRZ1
	1750	56HC	230/460	4.3/2.1	1.00	86.5%	⅝"	2"	10 11⁄16"	1TRZ5
Totally Enclosed Nonventilated, Face-Mount										
⅓	1765	56C	230/460	1.5/0.7	1.15	74.0%	⅝"	2"	8 11⁄16"	1TTB1
½	1750	56C	230/460	1.6/8.0	1.15	80.0%	⅝"	2"	9 3⁄16"	1TTB6
¾	3500	56C	230/460	2.0/1.0	1.15	80.0%	⅝"	2"	9 3⁄16"	1TTA3
	1745	56C	230/460	2.3/1.2	1.15	82.5%	⅝"	2"	9 3⁄16"	1TTB5
1	1750	56C	230/460	3.1/1.5	1.15	85.5%	⅝"	1⅞"	10 3⁄16"	48ZJ94
	1750	143TC	230/460	3.0/1.5	1.15	85.5%	⅞"	2⅛"	10 3⁄16"	1TTB7
1½	1750	145TC	230/460	4.3/2.1	1.00	86.5%	⅞"	2⅛"	10 11⁄16"	1TTB8
Totally Enclosed Nonventilated, Rigid Base-Mount										
½	1750	56	230/460	1.6./0.8	1.15	78.5%	⅝"	1⅞"	8⅞"	1TTC3
¾	1745	56	230/460	2.3/1.2	1.15	81.5%	⅝"	1⅞"	8⅞"	1TTC2
1	1750	56	230/460	3.0/1.5	1.15	85.5%	⅝"	1⅞"	9⅞"	1TTC1

** 50/60 Hz.*



No. 5XAU2



No. 1TRZ6



No. 48ZJ94

90 and 180VDC Painted Washdown Motors

- Enclosure: totally enclosed fan-cooled
- Service factor: 1.0
- Insulation: Class H
- Bearings: ball
- Max ambient temp.: 40°C
- Duty: continuous

Designed for use with speed controls or NEMA Type K DC power supplies on constant or diminishing torque applications. Motors feature externally replaceable brushes and removable bases. Suitable for use in drives for conveyors, food packaging and processing machinery where high humidity and wet environments exist, or where washdown procedures are used. UL Recognized.

HP	Nameplate RPM	Frame	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
90VDC Permanent Magnet, Face/Base-Mount							
¼	1750	56C	2.5	⅝"	1⅞"	8⅞"	1F654
⅓	1750	56C	3.5	⅝"	1⅞"	9⅜"	1F652
½	1750	56C	5	⅝"	1⅞"	9⅞"	1F650
¾	1750	56C	7.6	⅝"	1⅞"	11⅞"	1F646
1	1750	56C	10.0	⅝"	1⅞"	12⅞"	1F642
180VDC Permanent Magnet, Face/Base-Mount							
½	1750	56C	3.5	⅝"	1⅞"	9⅞"	1F648
¾	1750	56C	3.8	⅝"	1⅞"	11⅞"	1F644
1	1750	56C	5.0	⅝"	1⅞"	12⅞"	1F640



No. 1F654

• Replacement brushes available on Grainger.com®

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



Rigid Base



Face/Base with Removable Base

Dayton

Capacitor-Start Farm-Duty Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: manual
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Color: green

Features include gasketed conduit box and a capacitor cover; a rubber boot over the manual protector reset button seals the motor against weather and contaminants. Oversized conduit boxes make connections easier. Shaft slinger included. For use with conveyors, silo unloaders, barn cleaners, compressors, and manure pumps. Extra-High-Torque motors have up to 400% starting torque for extremely hard-starting applications and can start under full-load conditions. All motors are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Shaft Dia.	Shaft Length	Item No.
High-Torque, Rigid Base									
⅓	1725	56	115/230	6.6/3.3	1.15	B	⅝"	1⅞"	**6K710**
½	1725	56	115/230	9.0/4.5	1.15	F	⅝"	1⅞"	**6K714**
¾	1725	56	115/230	11.4/5.7	1.15	B	⅝"	1⅞"	**6K719**
1	1725	56H	115/230	14.0/7.0	1.15	F	⅝"	1⅞"	**6K727**
1½	1725	56H	115/230	16.2/8.1	1.15	B	⅝"	1⅞"	**6K740** *
	1725	143/5T	115/230	16.2/8.1	1.15	B	⅞"	2¼"	**6K311** *
2	1725	56HZ	115/230	20.0/10.0	1.00	F	⅞"	2¼"	**4K090** *
	1740	182T	115/230	23.6/11.8	1.00	F	1⅛"	2¾"	**6K313**
3	1740	184T	230	14.5	1.00	F	1⅛"	2¾"	**6K610**
5	1740	182/4T	230	22.0	1.00	F	1⅛"	2¾"	**6K847** *
	1730	213T	230	23.0	1.00	F	1⅜"	3½"	**6K130** *
7½	1740	215T	230	30.0	1.00	F	1⅜"	3½"	**6K969** *
10	1730	215T	230	38.0	1.00	F	1⅜"	3½"	**6K970** *
High-Torque, Face/Base with Removable Base									
⅓	1725	56C	115/230	6.6/3.3	1.15	B	⅝"	1⅞"	**1TMW3**
½	1725	56C	115/230	9.0/4.5	1.15	B	⅝"	1⅞"	**1TMW5**
¾	1725	56C	115/230	11.4/5.7	1.15	B	⅝"	1⅞"	**1TMW7**
1	1725	56HC	115/230	14.0/7.0	1.15	F	⅝"	1⅞"	**1TMW9**
1½	1725	56HC	115/230	14.4/7.2	1.15	B	⅝"	1⅞"	**1TMX2** *
2	1725	145TC	115/230	18.9/9.4	1.15	F	⅞"	2⅛"	**1TMW2** *
Extra-High-Torque, Rigid Base									
1	1725	143/5T	115/230	15.0/7.5	1.15	F	⅞"	2¼"	**6K994**
1½	1725	143/5T	115/230	19.2/10.1	1.15	F	⅞"	2¼"	**6K886** *
2	1750	182TZ	115/230	25.6/12.8	1.15	F	⅞"	2¾"	**6K887** *
3	1760	184T	230	17.0	1.15	F	1⅛"	2¾"	**6K881**
5	1740	184T	230	24.0	1.15	F	1⅛"	2¾"	**6K882** *
	1725	215TZ	230	29.0	1.15	F	1⅛"	3⅜"	**6K883** *
7½	1715	215TZ	230	30.8	1.15	F	1⅛"	3⅜"	**6K884** *
10	1735	215T	230	41.0	1.15	F	1⅜"	3⅜"	**6K885** *

** Capacitor-start, capacitor-run.*



No. 48ZJ99

Dayton

3-Phase Farm-Duty Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Mounting: rigid base
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Gasketed conduit box and shaft slinger provide added protection against moisture, dust, and dirt. Use for driving augers, air compressors, conveyors, pumps, and other farm equipment where 3-phase power is available. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Item No.
⅓	1765	56	None	208-230/460	1.3-1.3/0.6	1.25	F	**1EJR3**
½	1765	56	None	208-230/460	1.9-2.1/1.0	1.25	F	**1EJR4**
¾	1745	56	None	208-230/460	2.4-2.4/1.2	1.25	F	**1EJR5**
1	1755	143-5T/56HZT	None	230/460	3.0/1.5	1.25	F	**35Z916**
1½	1745	56	Manual	208-230/460	4.5-4.5/2.2	1.15	F	**48ZJ99**
1½	1755	143-5T/56HZT	None	230/460	4.3/2.1	1.25	F	**35Z917**
2	1750	143-5T/56HZ	None	230/460	5.7/2.8	1.25	F	**35Z918**
3	1765	182T	None	230/460	7.8/3.9	1.15	F	**35Z919**
5	1755	184T	None	230/460	12.5/6.2	1.15	F	**35Z920**
7½	1765	213T	None	230/460	18.1/19.1	1.15	F	**35Z921**
10	1760	215T	None	230/460	24.0/12.0	1.15	F	**35Z922**



No. 5K043



No. 33K161



No. 3K995

1-Phase Auger Motors

marathon Motors

Dayton

- Rotation: CW/CCW
- Thermal protection: manual
- Insulation: Class B, except Nos. 33K161 to 33K165 are Class F
- Bearings: ball
- Max. ambient temp.: 40°C

Guard on rotary switch protects against high-speed back-drive condition. Mounting flange assembles directly to gearbox on auger-drive systems. Capacitor-start models have shaft extensions beyond fan guard for hand cranking. Suitable as a replacement for Chore-Time, Cumberland, GSI, and other new and replacement OEM equipment. Nos. 33K161 to 33K165 include conduit box. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Mounting	Shaft Dia.	Brand	Mfr. Model	Item No.
Split-Phase, Totally Enclosed Nonventilated										
⅓	1725	48NY	115/230	5.3/2.7	1.00	Face	½"	Marathon	5KH39QN9508Y	**4K118**
	1725	56YZ	115/230	5.2/2.6	1.00	Face	½"	Dayton	—	**3K994** *
	1725	56YZ	115/230	5.2/2.6	1.00	Face/Base	½"	Dayton	—	**5K043** *
Capacitor-Start, Totally Enclosed Fan-Cooled										
⅓	1725	48NZ	115/230	6.2/3.1	1.00	Face	½"	Marathon	048C17F11005	**33K161**
½	1725	48NZ	115/208-230	8/3.8-4	1.00	Face	½"	Marathon	048C17F11006	**33K162**
	1725	56YZ	115/230	8.0/4.0	1.00	Face	½"	Dayton	—	**3K995** *
	1725	56YZ	115/230	8.0/4.0	1.00	Face/Base	½"	Dayton	—	**5K044** *
¾	1725	48NZ	115/208-230	10.8/5.3-5.4	1.00	Face	½"	Marathon	048C17F11007	**33K163**
	1725	56YZ	115/230	10.6/5.3	1.00	Face	½"	Dayton	—	**3K996** *
	1725	56YZ	115/230	10.6/5.3	1.00	Face/Base	½"	Dayton	—	**5K046** *
1	1725	56NZ	115/230	13.4/6.7	1.00	Face	⅝"	Marathon	056C17F15537	**33K164**
	1725	56Y	115/230	12.8/6.4	1.15	Face/Base	⅝"	Dayton	—	**4K997**
1½	1725	56NZ	115/230	15.2/7.6	1.00	Face	⅝"	Marathon	056B17F15516	**33K165** †
	1725	56Y	115/230	16.2/8.1	1.15	Face/Base	⅝"	Dayton	—	**4K998** †

** 60/50 Hz. † Capacitor-start, capacitor-run.*

1-Phase Poultry/Livestock Direct-Drive Fan Motors

- Enclosure: totally enclosed air-over
- Max ambient temp.: 40°C

Motors feature shaft slinger. For fan duty only. Direct replacements for Acme, Aerotech, Dayton®, GSI, LB White, and other direct-drive poultry fans. PSC and Capacitor Start/Run motors also have gasketed capacitor covers. All models are UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Service Factor	Ins. Class	Mounting	Shaft Dia.	Shaft Length	Brand	Item No.	
Permanent Split Capacitor													
¼	1700	48YZ	CW/CCW	115/230	3.3/1.7	1.00	B	Cradle Base	½"	2 7/16"	Dayton	**1YAZ4**	*
	1725	48YZ	CW/CCW	115/230	2.3/1.4	1.00	B	Yoke	½"	2 7/16"	Dayton	**1YAZ7**	*
	1625	48Z	CW/CCW	115/230	3.6/1.8	1.00	B	Cradle Base	½"	2½"	Marathon	**33L616**	
⅓	1700	48YZ	CW/CCW	115/230	3.8/1.9	1.00	B	Cradle Base	½"	2½"	Dayton	**1YAZ5**	*
	1725	48YZ	CW/CCW	115/230	3.8/1.9	1.00	B	Yoke	½"	2 7/16"	Dayton	**1YAZ8**	*
½	1700	48YZ	CW/CCW	115/230	5.0/2.5	1.00	B	Cradle Base	½"	2½"	Dayton	**1YAZ6**	*
	1700	48YZ	CW/CCW	115/230	5.5/2.8	1.00	F	Yoke	½"	2½"	Dayton	**1YAZ9**	*
	1075	48Z	CW/CCW	115/230	7.2/3.6	1.00	—	Cradle Base	½"	2½"	Marathon	**33L621**	
	850	56Y	CCWLE	208-230	3.7-3.6	1.00	B	Stud	5/8"	1⅞"	Marathon	**33L622**	
⅓	1100	48Y	CW/CCW	115/230	3.9/1.9	1.00	B	Stud	½"	2½"	Dayton	**1YBA5**	
	1100	48Y	CW/CCW	115/230	3.9/1.9	1.00	B	Rigid Base	½"	3¾"	Dayton	**1YBA4**	
½	850	48YZ	CW/CCW	115/230	6.0/3.0	1.25	B	Stud	5/8"	3⅜"	Dayton	**1YAZ3**	
	850	56Z	CW/CCW	115/230	6.0/3.0	1.00	B	Rigid Base	5/8"	2½"	Dayton	**1YBA6**	
1	850	56CZ	CWSE	230	5.8	1.00	B	Face	5/8"	2½"	Dayton	**1YBA7**	
	850	56CZ	CWSE	230	5.2	1.00	B	Face	¾"	3¼"	Dayton	**1YBA1**	
Capacitor-Start/Run													
¾	1725/1425	56	CW/CCW	115/208-230	7/3.8-3.5	1.30	B	Cradle Base	5/8"	1⅞"	Marathon	**33L623**	
1	1725/1425	56	CW/CCW	115/208-230	10.6/5.5-5.3	1.30	B	Cradle Base	5/8"	1⅞"	Marathon	**33L624**	
1½	1725	56	CW/CCW	115/208-230	14.0/7.2-7.0	1.30	B	Cradle Base	5/8"	1⅞"	Marathon	**33L625**	
Split-Phase													
⅛	1140	48	CW/CCW	115	3.7	1.00	B	Cradle Base	½"	1½"	Marathon	**33L615**	
¼	1140	56	CW/CCW	115	5.6	1.00	B	Cradle Base	5/8"	1⅞"	Marathon	**33L617**	
⅓	1725	48Z	CW/CCW	115	6.2	1.00	B	Cradle Base	½"	2¼"	Marathon	**33L618**	
½	1725	56	CW/CCW	115/208-230	8.0/4.0-4.0	1.00	B	Cradle Base	5/8"	1⅞"	Marathon	**33L620**	
3-Phase													
1	850	56CZ	CW/CCW	440/460	1.9-2.0	1.00	B	Face	¾"	3¼"	Dayton	**1YAZ2**	

**** Adjustable speed: Designed to operate from 100% down to 80% speed with optional speed controllers, see page 158. For use with fans only; not intended for mechanical applications.***



No. 1YAZ4
Permanent Split Capacitor



No. 33L623
Capacitor Start/Run



No. 1YAZ2
3-Phase

1-Phase Poultry/Livestock Belt-Drive Fan Motors

- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Max. ambient temp.: 40°C

Motors have higher service factors and breakdown torque for the most-demanding applications. Feature shaft slinger, gasketed capacitor, and conduit box cover for added protection against dirt and moisture. Motors also have double-sealed bearings, condensation drain holes, and cooler-running windings to promote longer service life. For use in Dayton®, Aerotech, American Coolair, Chore Time, Acme, Hired Hand, and other air-over belt drive livestock ventilation fans. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Mounting	Brand	Mfr. Model	Item No.	
Capacitor-Start/Run										
½	1725	56	115/208-230	4.6/2.6-2.4	1.40	Cradle Base	Dayton	—	**5JKW9**	
¾	1725	56	115/208-230	6.1/3.4-3.1	1.30	Cradle Base	Dayton	—	**4WNZ5**	
	1725	56	115/208-230	6.1/3.4-3.1	1.30	Rigid Base	Dayton	—	**4WNZ6**	
1	1725/1425	56	115/230	9.0/4.5	1.30	Cradle Base	Century	PD6104AV2	**3RCW9**	
	1725/1425	56	115/230	9.0/4.5	1.30	Rigid Base	Century	PD6104AV3	**3RCX1**	
	1725	56H	115/230	7.9/4.0	1.15	Rigid Base	Dayton	—	**3K993**	
	1725	56H	115/230	7.9/4.0	1.15	Cradle Base	Dayton	—	**4K124**	
Split-Phase										
¼	1725	48	115/208-230	3.0/1.6-1.5	1.00	Cradle Base	Marathon	5KHC39QN9575T	**2K349**	*
⅓	1725	48	115/208-230	4.1/2.1-2.0	1.00	Resilient Base	Marathon	5KHC39QN9581T	**2K348**	*
	1725	56	115/230	5.5/2.7	1.25	Rigid Base	Dayton	—	**1YBU8**	
½	1725/1425	56	115/208-230	4.8/2.4	1.30	Cradle Base	Century	PD1050AV1	**3RCW8**	
	1725	56	115/230	7.6/3.8	1.25	Rigid Base	Dayton	—	**1YBV8**	
	1725	56	115/230	7.6/3.8	1.25	Cradle Base	Dayton	—	**1YBV9**	
	1725	56	115/230	7.6/3.8	1.25	Cradle Base	Dayton	—	**1YBW1**	*
¾	1725	56	115/230	11.5/5.7	1.25	Rigid Base	Dayton	—	**1YBU9**	
1	1725	56	115/230	13.0/6.5	1.25	Rigid Base	Dayton	—	**1YBV1**	

**** Includes 3⅝" x 3⅝" extended thru-bolts for fan guard mounting.***



Capacitor-Start/Run, Cradle Base



Split-Phase, Cradle Base

Capacitor-Start Aeration Fan Motors

- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Service factor: 1.0
- Insulation: Class B
- Mounting: rigid base
- Max. ambient temp.: 50°C

Use as a replacement motor for tube-axial fan grain aeration systems made by Aero-Vent, Dynavent, Farm Fan, and other manufacturers. Permanent split capacitor motors have keyed shaft that is drilled on center 1"D, and tapped ¼-20 UNC to allow fan mounting. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Item No.
½	3450	48	115/230	8.0/4.0	½"	1½"	**4K055**
	3450	56Z	115/230	7.4/3.7	5/8"	2¼"	**4K056**
¾	3450	48	115/230	11.0/5.5	½"	1½"	**4K057**
	3450	56Z	115/230	11.0/5.5	5/8"	2¼"	**4K058**
1	3450	56Z	115/230	12.4/6.2	5/8"	2¼"	**4K059**
1½	3450	143TZ	115/230	17.4/8.7	⅞"	2¼"	**4K060**
2	3450	143TZ	115/230	22.2/11.1	⅞"	2¼"	**4K061**
3	3450	145TZ	230	14.9	⅞"	2¼"	**4K062**



No. 4K055



No. 4K059


No. 3K783


No. 3K788


No. 13L299

1-Phase Air Compressor Motors

- Enclosure: open dripproof
- Mounting: rigid base
- Bearings: ball
- Max. ambient temp.: 40°C

Direct replacements for selected air compressors including Dayton®, Speedaire®, Ingersoll-Rand, Campbell Hausfeld, Sanborn, Champion, Coleman, Quincy, and others. Designed to meet the high-torque requirements of air compressor loads. Mechanical features provide long life in high-tension, belt-type loads, which typically shorten motor life. High breakdown torque ensures dependable service. Suitable for intermittent-duty, portable, and stationary air compressors. UL Recognized and CSA Certified.

Note: Use on other applications voids warranty.

HP	Nameplate RPM	Frame	Rotation	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.	
Capacitor-Start														
½	3450	56	CCWSE	Manual	115	11.5	1.00	B	⅝"	1⅞"	Marathon	9031	**3K781**	
¾	3450	56	CCWSE	Manual	115	12.5	1.00	B	⅝"	1⅞"	Marathon	9032	**3K783**	
1	1725	56	CW/CCW	Manual	115/230	13.6/6.8	1.15	B	⅝"	1⅞"	Marathon	C1480	**39L530**	
	3450	56	CCWSE	Manual	115/230	16.0/8.0	1.00	B	⅝"	1⅞"	Marathon	9033	**3K785**	
1½	1725	56H	CW/CCW	Manual	115/208-230	18/9.3-9.0	1.15	B	⅝"	1⅞"	Marathon	G951	**39L531**	
	3450	56	CW/CCW	Manual	115/230	21.3/10.6	1.15	B	⅝"	1⅞"	Marathon	C704	**5TB73**	
3	1745	184T	CW/CCW	Manual	208-230	18.6-17.5	1.15	B	1⅛"	2¾"	Weg	00318OS1CCDOL184T	**13L295**	
7½	3470	213T	CW/CCW	None	208-230	40.0-37.0	1.15	B	1⅜"	3⅜"	Marathon	I105	**39L541**	
Capacitor-Start/Run														
¾	1725	56	CW/CCW	Manual	115/208-230	11.0/5.5	1.25	B	⅝"	1⅞"	Marathon	K016	**6KHJ5**	
1	3450	56	CW/CCW	Manual	115/208-230	10.6/5.5-5.3	1.15	B	⅝"	1⅞"	Marathon	D010	**39L529**	
2	1740	145T	CW/CCW	Manual	115/208-230	18.8/10.2-9.4	1.15	B	⅞"	2¼"	Marathon	I127	**39L532**	
	3450	56	CW/CCW	Manual	115/230	17.0/8.5	1.00	B	⅝"	1⅞"	Marathon	9035	**3K787**	
	3450	56	CW/CCW	Manual	115/230	17.8/8.9	1.15	B	⅝"	1⅞"	Marathon	C703A	**454X48**	
3	1740	184T	CW/CCW	None	230	12.1	1.15	B	1⅛"	2¾"	Marathon	Z502	**39L534**	
	3450	56	CW/CCW	Manual	230	14.5	1.00	B	⅝"	1⅞"	Marathon	9036	**3K788**	
	3450	56	CCWSE	Manual	230	15.0	1.00	B	⅝"	1⅞"	Marathon	9040	**39L535**	
4	3440	56HZ	CCWSE	Manual	230	16.5	1.15	B	⅞"	2¼"	Weg	00436OS1DCDG56HZ	**13L296**	
5	1740	184T	CW/CCW	None	208-230	23.0-21.0	1.15	F	1⅛"	2¾"	Marathon	I114A	**39L539**	
	1745	184T	CW/CCW	None	208-230	23.5-21.5	1.25	B	1⅛"	2¾"	Weg	00518OS1CCD184T	**13L299**	
	1745	184T	CW/CCW	Manual	208-230	23.5-21.5	1.15	B	1⅛"	2¾"	Weg	00518OS1CCDOL184T	**13L301**	
	1760	184T	CW/CCW	Manual	208-230	25.0-24.1	1.15	B	1⅛"	2¾"	Marathon	I119	**39L538**	
	3450	56Y	CCWSE	Manual	208-230	22.0	1.15	B	⅞"	2¼"	Century	B384	**1ATA8**	*
	3450	56HZ	CCWSE	Manual	230	22.0	1.00	B	⅞"	2¼"	Century	B813	**1ATA9**	*
	3450	56H	CW/CCW	Manual	230	20.0	1.15	B	⅝"	1⅞"	Marathon	D017	**39L537**	*
6-12/32	3510	182/4Y	CCWSE	Manual	240	23.0	1.00	B	⅞"	2¼"	Weg	00636OS1XCD182/4Y	**13L302**	
7½	1735	215T	CW/CCW	None	208-230	37.5-34.5	1.15	F	1⅜"	3⅜"	Marathon	I115	**39L542**	
	1745	213/5T	CCWSE	—	208-230	33.3-31.3	1.15	B	1⅜"	3⅜"	Weg	00718OS1CCD215T	**13L303**	
	3515	184T	CW/CCW	None	208-230	34.0-31.0	1.15	F	1⅛"	2¾"	Marathon	I108A	**39L540**	
10	1730	215T	CW/CCW	None	208-230	49.0-44.0	1.15	F	1⅜"	3⅜"	Marathon	I116	**39L543**	
	1745	213/5T	CCWSE	—	208-230	45.0-43.0	1.15	B	1⅜"	3⅜"	Weg	01018OS1CCD215T	**13L304**	

Designed for light-duty, intermittent use.


No. 2M066


No. 2M145

Universal AC/DC Motors

- Enclosure: open dripproof
- Rotation: CCWSE (nonreversible), except No. 2M034 is CWSE
- 115V at 60 Hz
- Insulation: Class A, except No. 2M139 is Class F
- Max. ambient temp.: 40°C

Full-load speeds can be adjusted 20% to 100% with proper speed control (sold separately). Average brush life is about 300 hr. Motors are series-wound. Gray hammer finish. UL Recognized.

HP	Nameplate RPM	Voltage	Full Load Amps	Mounting	O.C. Mounting	Mounting Holes	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
1/15	5000	115	1.2	Hole	2⅜6"	(2) #10-32	Ball	2¾"	5/16"	⅞"	4 7/16"	**2M057**	*
	5000	115	1.2	Hole	2⅜6"	(2) #10-32	Sleeve	2¾"	¼"	¾"	4 7/16"	**2M033**	*
	5000	115	1.2	Hole	2⅜6"	(2) #10-32	Sleeve	2¾"	¼"	¾"	4 7/16"	**2M034**	*
	5000	115	1.2	Hole	2⅜6"	(2) #10-32	Sleeve	2¾"	¼"	¾"	4 7/16"	**2M277**	*
	5000	115	1.2	Rigid Base	2⅜6 x 3"	4	Sleeve	2¾"	¼"	1" & 1"	4 7/16"	**2M066**	*†
1/10	8000	115	1.5	Hole	2⅜6"	(2) #10-32	Ball	2¾"	¼"	⅞"	4 7/16"	**2M037**	*
⅓	10,000	115	2.9	Stud	2 7/16"	—	Sleeve	3⅜"	5/16"	1"	4½"	**2M139**	*
½	10,000	115	6.3	Hole	2 x 2 13/16"	(4) #10-32	Ball	3¾ x 3½"	⅜"	1¼"	6 3/16"	**2M145**	
1	10,000	115	12.1	Face	3¼ x 3¼"	(4) #10-32	Ball	3⅞"	7/16"	1¼"	7 25/32"	**2M191**	

Can be used with No. 5JJ60 speed control on page 158 . † Dual shaft.



3.3"-Dia. Shaded-Pole Vibrator Motor

- Enclosure: open
- Mounting: strap-type
- Max. ambient temp.: 40°C

Equipped with 9-ft. 3-cond. cordset and inline On/Off switch. Bracket mounting holes are ⅞" x 3" O.C.; includes bolt and nut to secure to motor. UL Recognized and CSA Certified.

HP	Force	Nameplate RPM	Thermal Protection	Vel.*	Voltage	Full Load Amps	Ins. Class	Bearings	Body Dia.	Item No.
1/100	5.00 lb.	1625	Auto	2.20 ips	115	0.65	B	Ball	3⅜"	**5FTT3**

ips = inches per second.

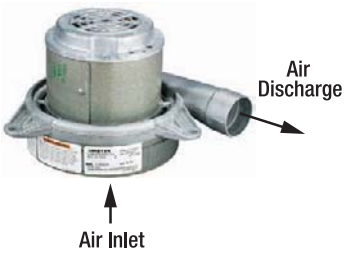
Body Dia.	Voltage	Blower Stages	CFM @ 2" Orifice	Vacuum (H_2O Sealed)	Max. Air Watts	Max. Amps	Overall Height	Replacement Brushes	Inlet Tube Dia.	Mfr. Model	Brand	Item No.
Peripheral Bypass Discharge												
Thermoset Mounting Brackets												
	120	1	95.0	50.1	188	5.7	5 1/16"	2YU17	—	116325-00	Ametek	**2M428**
	120	1	110.0	45.0	140	6.2	5"	34DA21	2"	32ZN72	Dayton	**32ZN72**
	120	1	115.0	50.0	195	8.2	5 3/8"	34DA21	2"	32ZN73	Dayton	**32ZN73**
	120	1	125.0	56.0	245	10.0	6"	34DA21	2"	32ZN82	Dayton	**32ZN82**
	120	1	133.0	49.5	291	7.0	5 3/16"	2UV64	—	116196-00	Ametek	**4M960**
	120	2	90.0	85.0	240	8.8	6 3/8"	34DA21	2"	32ZN74	Dayton	**32ZN74**
	120	2	94.0	84.3	274	8.0	6 5/16"	2UV81	—	116336-01	Ametek	**2M429**
	120	2	94.0	84.3	274	8.0	6 5/16"	2UY15	—	119414-00	Ametek	**3GXE9**
5.7"	120	2	96.0	88.1	292	8.0	6 5/16"	2UV81	—	115757-P	Ametek	**2M265**
	120	2	100.0	90.3	313	9.0	6 5/16"	2UV64	—	116493-50	Ametek	**4M949**
	120	2	101.0	93.2	332	9.1	6 15/16"	2UV64	—	116448-00	Ametek	**4M955**
	120	2	104.0	91.3	300	9.1	6 5/8"	2UV81	—	116212-00	Ametek	**4M954**
	120	2	105.0	95.0	320	11.0	7"	34DA21	2"	32ZN75	Dayton	**32ZN75**
	120	2	112.0	106.7	404	11.7	7"	41RD41	—	116471-13	Ametek	**4M953** *
	240	1	99.0	50.8	201	3.3	5 1/8"	2UV65	—	116271-00	Ametek	**4M957**
	240	2	112.0	95.4	360	4.9	7"	2UV65	—	116036-13	Ametek	**4M952** *
	240	2	107.0	97.8	389	5.7	7"	2UV65	—	116354-00	Ametek	**4M951**
Metal Mounting Brackets												
	120	2	102.7	110.0	384	13.0	6 3/16"	2XB23	—	115330	Ametek	**2M173**
7.2"	120	2	116.4	106.1	401	13.0	6 13/16"	2XB23	—	115962	Ametek	**2M187** *
	120	3	105.0	131.4	447	14.7	7 13/16"	2XB23	—	116118-00	Ametek	**4M891** *
7.5"	120	3	126.0	88.2	360	11.6	9 7/16"	2UV67	—	114787	Ametek	**2M179**
	240	3	122.0	84.2	354	5.2	9 7/16"	2UV76	—	114789	Ametek	**4M877**
Acustek® (Low Noise), Thermoset Mounting Brackets												
	120	2	97.0	84.9	255	7.9	6 1/2"	2UV64	—	116757-13	Ametek	**2M266** *
	120	2	97.0	84.9	255	7.9	6 1/2"	2UV64	—	116024-13	Ametek	**4M917** *
	120	2	102.0	91.5	293	9.2	6 1/2"	2UV64	—	116025-13	Ametek	**4M916** *
5.7"	120	2	103.0	91.5	293	9.2	6 1/2"	2UV81	—	116758-13	Ametek	**2M267** *
	120	2	110.0	107.1	387	11.3	6 15/16"	41RD41	—	116763-13	Ametek	**2M433** *
	120	3	100.0	119.6	382	11.1	7 13/16"	41RD41	—	116764-13	Ametek	**4M914** *
	240	2	111.0	95.2	362	4.9	7"	2UV65	—	116296-13	Ametek	**4M915** *
Tangential Bypass Discharge												
Thermoset Mounting Brackets												
	36VDC	3	76.0	74.0	185	17.9	7 13/16"	2UV71	—	116513-13	Ametek	**4M918** *
	36VDC	3	76.0	74.0	185	17.9	7 13/16"	4HCH1	—	119432-13	Ametek	**3GXF2**
	120	2	97.0	81.8	248	8.6	6 1/2"	2UV64	—	116392-00	Ametek	**2M430** *
	120	2	105.5	88.2	285	8.2	6 1/2"	2UV81	1 1/8"	116210-85	Ametek	**4M928**
	120	2	104.0	91.3	300	9.0	6 1/2"	2UV81	—	116207-00	Ametek	**2M201**
5.7"	120	2	97.4	92.5	301	9.9	7"	41RD41	—	116474-37	Ametek	**4M983** *
	120	2	112.0	106.7	404	11.7	7"	41RD41	—	116472-13	Ametek	**4M937** *
	120	3	99.0	117.4	368	10.7	7 13/16"	41RD41	—	116565-13	Ametek	**4M923** *
	120	3	99.0	117.4	386	10.7	7 13/16"	41RD41	1 1/2"	116565-29	Ametek	**4M924** *
	240	2	108.0	87.5	317	4.4	6 15/16"	2UV65	—	116420-13	Ametek	**4M934** *
	240	2	126.3	100.5	413	6.7	7"	2UV65	—	116353-13	Ametek	**4M936**
	240	3	93.0	115.5	345	5.2	7 13/16"	2UV65	—	116859-00	Ametek	**4M944**
7.2"	120	2	110.0	123.0	455	12.8	7 11/16"	2XB24	—	117467-13	Ametek	**4M889** *
Metal Mounting Brackets												
	120	1	93.0	47.8	157	5.7	4 7/16"	2YU17	—	116520-50	Ametek	**4M941**
5.7"	120	3	101.2	137.1	485	13.5	8 1/2"	2UV68	—	116765-00	Ametek	**4M922**
	120	3	101.2	137.1	485	13.5	8 1/2"	2UV68	—	116765-13	Ametek	**4M921** *
	120	2	102.7	110.0	384	13.0	6 1/16"	2XB23	—	115334	Ametek	**2M174**
	120	2	105.4	110.1	392	12.7	6 13/16"	2XB23	—	115937	Ametek	**2M178** *
	120	3	92.0	134.0	403	13.8	7 59/64"	2XB23	—	116103-00	Ametek	**2M188** *
	120	3	92.0	134.0	403	13.8	8 59/64"	2XB23	2"	116161-00	Ametek	**4M884** *
7.2"	120	3	94.0	134.0	438	12.6	7 23/32"	2XB23	—	116119-00	Ametek	**2M202**
	120	3	102.5	145.9	530	14.0	8 7/8"	2UV78	—	117500-12	Ametek	**3HV25**
	240	2	98.9	95.0	308	5.5	6 13/16"	2UV77	—	115950	Ametek	**4M888** *
	240	2	101.2	109.6	356	5.9	6 3/16"	2UV77	—	115684	Ametek	**4M887**
	240	3	87.0	106.0	306	5.5	8 59/64"	2UV77	—	116136-00	Ametek	**4M883** *
Aluminum Mounting Brackets												
5.7"	240	3	101.2	137.2	485	7.3	8 15/16"	2UV80	—	117123-00	Ametek	**3EAK5**
Thru-Flow Discharge												
Thermoset Mounting Brackets												
	120	1	112.0	63.0	189	6.8	4 3/8"	2UY15	—	119400-00	Ametek	**3EAK8**
	120	2	94.0	90.2	241	7.7	5 11/16"	2UY15	—	119402-00	Ametek	**3GXE2**
5.7"	120	1	105.0	60.0	195	7.1	4 1/2"	34DA21	2"	32ZN76	Dayton	**32ZN76**
	120	1	115.0	60.0	215	8.2	4 7/8"	34DA21	2"	32ZN77	Dayton	**32ZN77**
	120	1	125.0	70.0	280	10.1	5 1/4"	34DA21	2"	32ZN78	Dayton	**32ZN78**
	120	2	105.0	105.0	340	11.0	6 1/4"	34DA21	2"	32ZN80	Dayton	**32ZN80**
Metal Mounting Brackets												
	120	2	94.0	90.2	241	7.7	5 9/16"	2UV81	—	116669-50	Ametek	**2M421** †
	120	2	94.0	90.2	241	7.7	5 9/16"	2UV64	—	116457-00	Ametek	**2M420** †
	120	2	95.0	91.2	245	8.2	5 9/16"	2UV64	—	116311-01	Ametek	**2M192**
	120	2	99.0	92.0	257	8.0	5 9/16"	2UV81	—	115750	Ametek	**2M262**
	120	2	99.0	92.0	257	8.0	5 13/16"	2UV64	—	115744	Ametek	**2M198** †
	120	2	99.0	92.0	260	8.0	5 9/16"	2UV81	—	115737	Ametek	**2M263**
	120	2	104.0	100.0	323	9.0	6"	2UV81	—	116671-50	Ametek	**4M898** †
	120	2	115.0	96.4	356	9.5	5 9/16"	2UV81	—	116146-00	Ametek	**2M186**
5.7"	120	2	115.0	96.4	356	9.5	5 13/16"	2UV64	—	115982	Ametek	**4M982**
	120	2	115.0	96.4	356	9.5	5 13/16"	2UV81	—	116884-49	Ametek	**4M905** †
	120	2	101.3	114.4	365	10.6	5 15/16"	41RD41	—	116432-00	Ametek	**2M422**
	120	2	122.0	100.4	447	10.8	6 3/16"	41RD41	—	115923	Ametek	**4M903**
	240	1	113.0	61.7	197	3.8	4 13/16"	2UV65	—	116668-50	Ametek	**2M427** †
	240	2	89.0	78.0	196	3.5	5 9/16"	2UV65	—	115756	Ametek	**2M182**
	240	2	102.0	87.8	248	4.0	5 9/16"	2UV65	—	116670-50	Ametek	**2M424** †
	240	2	102.0	87.8	248	4.0	5 13/16"	2UV65	—	116312-00	Ametek	**2M423**
	240	2	119.0	98.9	345	5.1	6 1/2"	2UV65	—	116604-00	Ametek	**4M900** †
Aluminum Mounting Brackets												
5.7"	120	1	147.0	98.0	500	12.0	4 3/4"	2UV81	—	119347-00	Ametek	**3EAK7**

**** Air-sealed bearing protection. † Auto thermal protection; all others have none.***



PERIPHERAL DISCHARGE

Air flows into the bottom of the motor and is discharged through vents in the motor.



TANGENTIAL DISCHARGE

Air flows into the bottom of the motor and is discharged through an air tube on the side of the motor.



THRU-FLOW DISCHARGE

Air flows into the bottom of the motor and is discharged through the top of the motor to provide cooling.

AMETEK LAMB ELECTRIC | Dayton

Vacuum Motors

- Enclosure: open
- Thermal protection: None, except where noted
- Mounting: all-position
- Bearings: ball, permanently lubricated
- Max. ambient temp.: 40°C
- Duty: intermittent
- Avg. brush life (Ametek only): 4.3" and 5.7" dia., 500 hr.; 7.2" dia., 700 hr.; 7.5" dia., 1000 hr.

For use in moving clean and dry air. Motor should not come into contact with foam, liquids, or moisture-laden air. Use with applications that protect the motor's electrical components, fan system, and housing. Units with air-sealed bearings provide added protection against dirt and moisture. Units with thermoset mounting brackets are for light-duty applications. For use in commercial canister or utility vacuums, sprayer/foggers, material handling and transfer systems, and car wash and central vacuum systems. Ametek® motors are UL Recognized and CSA Certified, except No. 4M941 is UL Recognized only. Dayton® motors are UL and C-UL Recognized.

Note: Additional sizes available on Grainger.com®.

5.7"-Dia. Tangential Bypass Brushless Blowers

Northland Motor Technologies

- Enclosure: open
- Thermal protection: auto
- Mounting: tab, all-position
- Bearings: ball
- Max. ambient temp.: 50°C



No. 1MCG5

Adjustable, built-in speed control makes a secondary pressure control device unnecessary. An external hose is easily attached to the exhaust tube. Included wiring harness allows hard-wiring to external power. Manually controlled units have easily-adjusted built-in trim-pot. Electronically controlled models require a remote 0 to 10VDC reference signal (not included). For use in business machines, computer peripherals, material handling, air samplers/evacuators, packaging systems, photographic medical equipment, and air beds.

Watts	Blower Stages	Voltage	Max. Amps	H	Discharge Dia.	Vacuum (H_2O Sealed)	CFM	MANUAL SPEED CONTROL BLOWERS Mfr. Model	Item No.	ELECTRONIC SPEED CONTROL BLOWERS Mfr. Model	Item No.
	1	120	5.0	4¼"	1¼"	29.0	60	—	—	BBA14-111SET-00	**1MCG8**
	1	120	5.0	5⅞"	1¼"	28.0	64	BBA14-111SMB-00	**1MCG9**	BBA14-111SEB-00	**1MCG7**
	1	120	5.0	6⅞"	1¾"	24.0	105	BBA14-111HMB-00	**1MCG6**	BBA14-111HEB-00	**1MCG5**
	1	240	4.5	5⅞"	1¼"	30.0	64	BBA14-211SMB-00	**1MCJ4**	BBA14-211SEB-00	**1MCJ3**
	1	240	4.5	6⅞"	1¾"	26.0	105	BBA14-211HMB-00	**1MCJ2**	BBA14-211HEB-00	**1MCJ1**
400	2	120	5.0	5"	1¼"	50.0	60	—	—	BBA14-112SET-00	**1MCH3**
	2	120	5.0	7⅛"	1¾"	45.0	86.5	BBA14-112HMB-00	**1MCH1**	BBA14-112HEB-00	**1MCH2**
	2	240	4.5	7⅛"	1¾"	45.0	86.5	—	—	BBA14-212HEB-00	**1MCJ6**
	3	120	5.2	7⅝"	1¼"	65.0	47	BBA14-113SMB-00	**1MCH5**	BBA14-113SEB-00	**1MCH4**
	3	240	4.7	7⅝"	1¼"	64.0	47	—	—	BBA14-213SEB-00	**1MCJ8**
	3	240	4.7	7⅛"	1¾"	50.0	86	—	—	BBA14-213HEB-00	**1MCJ7**
	1	120	9.5	6⅛"	1¾"	43.0	135	BBA14-121HMB-00	**1MCH6**	—	—
800	2	120	9.5	7⅛"	1¾"	60.0	107	BBA14-122HMB-00	**1MCH7**	—	—
	3	120	9.0	7⅝"	1¼"	90.0	68	BBA14-123SMB-00	**1MCH9**	BBA14-123SEB-00	**1MCH8**
	1	240	10.5	6⅞"	1¾"	55.0	176	BBA14-221HMB-00	**1MCK1**	BBA14-221HEB-00	**1MCJ9**
1200	2	240	10.5	7⅛"	1¾"	88.0	151	BBA14-222HMB-00	**1MCK3**	BBA14-222HEB-00	**1MCK2**
	3	240	10.5	7⅝"	1¼"	143.0	79	BBA14-223SMB-00	**1MCK5**	BBA14-223SEB-00	**1MCK4**

Shaded Pole C-Frame Motors

Dayton

- No. of speeds: all motors are 1-speed except for No. 4M075 is 2-speed
- Enclosure: open air-over
- Service factor: 1.0
- Insulation: Class B
- Mounting: all-angle
- Max. ambient temp.: 40°C

For use in small fans and blowers found in bathroom ventilators, range hoods, electric heaters, hair dryers, slide projectors, air cleaners, humidifiers, and refrigeration equipment. UL Recognized and CSA Certified.

Note: This product is NOT SUITABLE for any unattended equipment (including built-in bathroom exhaust fans), unless the listed Thermal Protection is 1 Shot.

Stud/Hole Mount
- Mounting: two #8-32 studs at shaft end, and mounting holes on each side of the stator, 1⅞" OC

Stud Mount
- Mounting: two #8-32 studs on 1⅞" OC
- OEM replacement with 2-prong plug

Hole Mount
- Mounting: two #6-32 threaded holes on 1⅞" centers
- OEM replacement with OEM plug
- Dual shaft



Stud/Hole Mount



Stud Mount

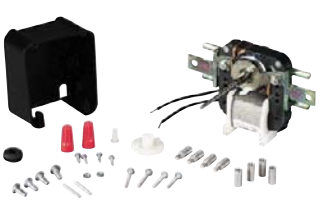


Hole Mount

OEM Name	OEM Part No.	Item No.	
Nutone, Air-King	Various	4M180	*
Nutone	C65878	4M209	*
Broan	99080207	4M210	*
Aubrey	2200-02	4M211	*
Fasco	0648-0027	4M212	*
Carrier	High-Efficiency Furnaces	5M065	†
Carrier	High-Efficiency Furnaces	5M066	†

HP	Nameplate RPM	Rotation	Thermal Protection	Voltage	Full Load Amps	Bearings	Stack Size	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.	
Stud/Hole Mount													
1/500	3000	CWSE	Impedance with One-Shot Backup	115	0.26	Sleeve	⅜"	3/16"	1"	1½"	12"	**4M067**	
1/250	3000	CWSE		115	0.41	Sleeve	½"	3/16"	1"	1⅝"	12"	**4M068**	
	3000	CWSE		230	0.17	Sleeve	½"	3/16"	1"	1⅝"	12"	**4M069**	
	3000	CWSE		120	0.37	Ball	½"	3/16"	2"	1⅝"	12"	**4M077**	
1/150	3000	CWSE		115	0.54	Sleeve	⅝"	3/16"	1"	1 11/16"	12"	**4M070**	
	3000	CWSE		230	0.24	Sleeve	⅝"	3/16"	1"	1 11/16"	12"	**4M071**	
	3000	CWSE		120	1.0	Ball	⅝"	3/16"	2"	1 11/16"	12"	**4M078**	
1/100	3000	CWSE		115	0.62	Sleeve	⅞"	3/16"	1"	2"	12"	**4M072**	
1/70	3000	CWSE	One-Shot	115	1.2	Sleeve	⅞"	3/16"	1"	2"	12"	**4M073**	
	3000	CWSE		230	0.48	Sleeve	⅞"	3/16"	1"	2"	12"	**4M074**	
	3000	CWSE		115	1.0	Sleeve	⅞"	3/16"	1"	2"	12"	**4M075**	
	3000	CWSE		120	0.96	Ball	⅞"	3/16"	2"	1⅞"	12"	**4M079**	
1/40	3000	CWSE		115	1.2	Sleeve	1½"	¼"	1"	2⅝"	12"	**4M076**	
	3000	CWSE		115	1.4	Ball	1½"	¼"	2"	2½"	12"	**4M080**	
1/20	3000	CWSE		120	2.8	Sleeve	2"	¼"	1"	3⅛"	12"	**5M064**	
Stud Mount													
1/150	2750	CWSE	One-Shot	120	0.52	Sleeve	1 1/16"	7/32"	2 5/16"	2⅜"	6"	**4M180**	*
	2800	CCWSE		120	0.93	Sleeve	½"	7/32"	1¾"	1 13/16"	5"	**4M209**	*
	2800	CCWSE	Impedance with One-Shot Backup	120	0.59	Sleeve	⅝"	3/16"	1 9/16"	1 9/16"	7"	**4M210**	*
	2850	CWSE		120	0.61	Sleeve	⅝"	3/16"	1 5/16"	1 9/16"	5"	**4M211**	*
1/125	2750	CWSE		120	0.89	Sleeve	½"	3/16"	1⅛"	1 5/32"	4"	**4M212**	*
Hole Mount													
1/40	3200	CWSE	One-Shot	120	3.9	Ball	1½"	7/32, 5/16"	¾, 2"	2⅝"	5"	**5M065**	†
	3200	CWSE		230	1.9	Ball	1½"	7/32, 5/16"	¾, 2"	2⅝"	5"	**5M066**	†

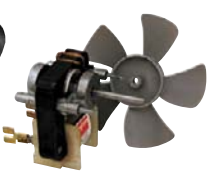
** 2-prong non-polarized plug. † Molex 2-pin plug.*



No. 4M249



No. 3HEH1



No. 3LC32

Dayton

ACME MIAMI

Supplier Diversity

Shaded Pole C-Frame Motor Kits for Ventilation/Refrigeration

- Nameplate RPM: 3000
- Enclosure: open air-over
- Max. ambient temp.: 40°C
- Duty: continuous

UL Recognized and CSA Certified.

HP	Includes	Rotation	Thermal Protection	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Cord Length	Brand	Mfr. Model	Item No.
1/200	2" Long Break-Off Shaft, Adapters, Brackets, Mounting Hardware and Instructions	CWSE	Impedance with One-Shot Backup	120	0.26	Sleeve	⅛"	2½"	6"	Dayton	—	**4M249**
1/150	(2) H-Brackets, (4) Bushings and (3) Fan Blades	CW/CCW	Impedance	115	0.35	Ball	¼"	1⅜"	9"	Dayton	—	**3HEH1**
1/135	Hub Adapter, H-brackets, Screws, Washers and Wire Nuts, 4 and 5½" fan blades	CW/CCW	Impedance	115	0.35	Sleeve	3/16"	1⅜"	12"	Dayton	—	**4M987**
1/135	2 Double Male Electrical Terminals and 4" Dia. Fan Blade	CCWSE	Impedance	115	0.30	Sleeve	3/16"	1½"	—	Dayton	—	**3LC32**
1/55	Mounting Blocks and (3) Fan Blades (5, 5½ and 6" Diameter)	CW/CCW	Auto	115/230	0.91/0.45	Sleeve	3/16"	⅞"	—	Acme-Miami	7472	**16U069**
1/45	(2) H-Brackets, (2) Fan Blades, Hardware and Shaft Adapters to Fit ¼ and 5/16" Bores and Hubless Blades	CW/CCW	Auto	115/230	1.1/0.55	Sleeve	3/16"	1 5/16"	—	Dayton	—	**3HEH2**

Shaded Pole Unit Bearing Motors

Dayton

- Enclosure: totally enclosed air-over
- 60/50 Hz
- Service factor: 1.0
- Insulation: Class A
- Mounting: horizontal or vertical shaft up

Use with commercial and industrial HVAC and refrigeration equipment, and other applications with 6" to 12" fan blades. Motors have oil circulation system to help extend the life of motor and bearings, and allow for vertical application.

Output Watts	HP	Nameplate RPM	Thermal Protection	Voltage	Full Load Amps	Body Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	CLOCKWISE FACING LEAD END Item No.	COUNTERCLOCKWISE FACING LEAD END Item No.
Cast-Aluminum Housing											
Rear/Double Foot Mounting											
5	1/150	1550	Impedance	115	0.34	3½"	½"	2⅜"	40°C	4YFF7	4YFF6
6	1/125	1550	Impedance	115	0.42	3½"	½"	2⅜"	40°C	4YFF9	4YFF8
9	1/83	1550	Auto	115	0.62	3½"	½"	2⅜"	40°C	4YFG2	4YFG1
9	1/83	1550	Auto	230	0.33	3½"	½"	2⅜"	40°C	4YFG4	4YFG3
Rear/Foot Mounting											
2	1/370	1550	Impedance	115	0.25	3½"	½"	2⅜"	40°C	4YFH5	—
2.3	1/370	1550	Impedance	115	0.25	3½"	½"	3⅜"	40°C	4YFG5	—
4	1/185	1550	Impedance	115	0.34	3½"	½"	3⅜"	40°C	4YFJ2	4YFJ3
4	1/185	1550	Impedance	230	0.17	3½"	½"	3⅜"	40°C	4YFJ4	4YFJ5
6	1/125	1550	Impedance	115	0.42	3½"	½"	3 13/16"	40°C	4YFJ6	—
9	1/83	1550	Auto	115	0.62	3½"	½"	3 13/16"	40°C	4YFJ7	4YFJ8
9	1/83	1550	Auto	230	0.33	3½"	½"	3 13/16"	40°C	4YFJ9	4YFK1
16	1/47	1550	Auto	115	1.1	3½"	½"	4 3/32"	40°C	4YFK4	4YFK5
16	1/47	1550	Auto	230	0.60	3½"	½"	4 3/32"	40°C	4YFK6	—
Cast-Iron Housing											
Rear/Foot Mounting											
2.5	1/300	1550	Impedance	115	0.25	3½"	½"	3⅜"	40°C	4YFH6	—
4	1/185	1550	Impedance	115	0.34	3½"	½"	3⅜"	40°C	4YFG8	4YFG9
4	1/185	1550	Impedance	230	0.17	3½"	½"	3⅜"	40°C	4YFK2	4YFK3
6	1/125	1550	Impedance	115	0.42	3½"	½"	3 13/16"	40°C	4YFG7	4YFG6
9	1/83	1550	Auto	115	0.62	3½"	½"	3 13/16"	40°C	4YFH3	4YFH2
9	1/83	1550	Auto	230	0.33	3½"	½"	3 13/16"	40°C	4YFH4	4YFH1
16	1/47	1550	Auto	115	1.1	3½"	½"	4 1/16"	40°C	4YFH7	4YFH9
16	1/47	1550	Auto	230	0.60	3½"	½"	4 1/16"	40°C	4YFH8	4YFJ1



No. 4YFG5



No. 4YFF9

Kryo™ SSC ECM Unit Bearing Motors

morrillmotors

- Enclosure: totally enclosed air-over
- Rotation: CWLE
- Thermal protection: electronic
- 60 Hz
- Service factor: 1.0
- Insulation: Class B
- Mounting: rear/foot
- 1/4"-20 threaded shaft
- Plug type: round 2-pin

For use in commercial refrigeration evaporator fan applications and in most applications requiring high efficiency and output ratings between 4 and 25W. Aluminum housing. UL Recognized and IP65 compliant.

Output Watts	Nameplate RPM	Voltage	Full Load Amps	Body Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
25 to 9	1550	115	0.60	3½"	⅜"	3¼"	55°C	5R999	39D813
16 to 4	1550	115	0.40	3½"	⅜"	3¼"	55°C	5R031	39D812
4 to 16	1550	208-230	0.15	3½"	⅜"	3¼"	55°C	5R030	39D811



No. 39D812

ECM Direct-Drive Unit Bearing Fan Motors

SUPPLIER DIVERSITY EM&S

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Insulation: Class A
- Mounting: rear/double foot
- Body dia.: 3½"
- Max. ambient temp.: 40°C
- Plug type: round 2-pin

Suitable for evaporator fans, walk-in coolers and freezers, ice machines, beverage merchandisers, and vending machines. Threaded ¼-20 shaft. Cast-iron frame. Evaporator-duty only. Include speed nut and mounting screws. UL and C-UL Recognized.

Output Watts	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Orientation	Length Less Shaft	Mfr. Model	Item No.
14 to 16	1/50	1550	CWLE	115	0.58	Horizontal or Up	3¾"	UTB1CC1551EM56	5ULC9
6 to 12	1/60	1550	CWLE	115	0.30	Horizontal or Up	3¾"	UTB1CB1551EM56	5ULC8



No. 5ULC8

Shaded Pole Unit Bearing Motors

SUPPLIER DIVERSITY EM&S

- Service factor: 1.0
- Mounting: rear/double foot
- Max. ambient temp.: 40°C
- Duty: continuous
- Shaft orientation: horizontal or up
- Plug type: round 2-pin
- Original OEM replacement motor

Feature precision-machined housing with positive-flow lubrication and a preoiled felt wick for extended use with no reoiling. #8 mounting holes, 2 13/16" OC. ¼-20 threaded shafts, except Nos. 4M159 and 4M160 have ⅜" dia. with flat. No. 2MY41 has 5/16" dia., and motor leads and shaft exit the same side of housing. For use in commercial and industrial HVAC and refrigeration equipment, and other applications with 6" to 12" fan blades. All motors are UL Recognized and CSA Certified, except Nos. 5YJN8 and 5YJN9 are UL and C-UL Recognized only.

Output Watts	HP	Nameplate RPM	Rotation	Thermal Protection	Voltage	Full Load Amps	Ins. Class	Body Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Totally Enclosed Air-Over												
5	1/150	1550	CWLE	Impedance	115	0.40	B	3½"	⅜"	2½"	SPFBC51	5YJN8
9	1/85	1550	CWLE	Auto	115	0.60	B	3½"	⅜"	3"	SPFBE91H	5YJN9
16	1/47	1500	CWLE	Auto	115	0.80	A	3⅞"	½"	3½"	ESP-L16EM1	4M153
16	1/47	1500	CWLE	Auto	230	0.40	A	3⅞"	½"	3½"	ESP-L16EM2	4M154
25	1/30	1500	CWLE	Auto	115	1.1	A	3⅞"	½"	3½"	ESP-L25EM1	4M155
25	1/30	1500	CWLE	Auto	230	0.60	A	3⅞"	½"	3½"	ESP-L25EM2	4M156
35	1/20	1500	CWLE	Auto	115	1.4	A	3⅞"	½"	3½"	ESP-L35EM1	4M157
35	1/20	1500	CWLE	Auto	230	0.70	A	3⅞"	½"	3½"	ESP-L35EM2	4M158
Open Air-Over												
50	1/15	1500	CWLE	Auto	115	1.7	A	3⅞"	1½"	4⅝"	ESP-OL50EM1	4M159
50	1/15	1500	CWLE	Auto	208-230	1.1-1.2	A	3⅞"	1½"	4¼"	ESP-OL60EM2	4M160
50	1/15	1500	CCWSE	Auto	208-230	0.77-0.85	A	3⅞"	1½"	3¾"	ESP-OL50EMJR21	2MY41
50	1/15	1500	CWLE	Auto	115	1.70	A	3⅞"	13/32"	5 19/32"	ESP-OL50EM16H	40GN88
50	1/15	1500	CWLE	Auto	230	0.85	A	3⅞"	13/32"	5 19/32"	ESP-OL50EM26H	40GN89



No. 4M159

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



Arktic 59® Series 3.3" ECM Direct-Drive Blower Motors

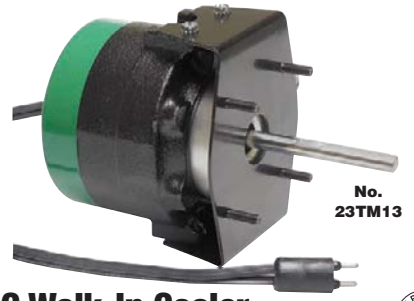
morrillmotors®

- Enclosure: totally enclosed air-over
- Thermal protection: electronic
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Shaft orientation: all-angle
- Plug type: round 2-pin

Feature higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm (±6%) independent of static pressure for better air distribution through the refrigeration area. Can be used for replacing shaded pole, PSC, and ECM motors. Suitable for evaporator fan motors used in beverage merchandisers, display cases, freezers, ice machines, vending machines, and walk-in coolers. UL Recognized.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	CLOCKWISE LEAD END Item No.	COUNTER CLOCKWISE LEAD END Item No.
1/15	1550	115	1.1	5/16"	1"	3 13/16"	—	25TU28 *†
	1550	115	1.1	5/16"	2 5/8"	3 13/16"	25TU24	25TU25
	1550/800	115	1.1	5/16"	2 5/8"	3 3/16"	40TL72	40TL71
	1550	208-230	0.60-0.60	5/16"	1"	3 13/16"	—	25TU33 *
	1550	208-230	0.60-0.60	5/16"	2 5/8"	3 13/16"	25TU29 *	25TU30 *
	1550/800	208-230	0.63	5/16"	2 5/8"	3 3/16"	40TL69	40TL70

** Front and rear mounting. † Front mounting only.*



3.3" EC Walk-In Cooler Evaporator Motors

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Insulation: Class B
- Mounting: stud
- Bearings: unit
- Max. ambient temp.: 40°C
- Shaft orientation: horizontal or vertical shaft down
- Plug type: round 2-pin

Nos. 23TM13 and 23TM14 are counter clockwise lead end and No. 23TM16 is clockwise lead end, featuring higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm (±6%) independent of static pressure for better air distribution through the refrigeration area. Motors can be used for replacing shaded pole, PSC, and ECM motors. Suitable for condenser and evaporator fan motors used in display cases, ice machines, beverage merchandisers, vending machines, walk-in coolers, and freezers. UL and C-UL Recognized.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
1/15	1550	115	1.2	5/16"	2.6"	3 1/2"	23TM13
	1550	115	1.2	5/16"	2.6"	3 1/2"	23TM16
	1550	230	0.77	5/16"	2.6"	3 1/2"	23TM14



3.3"-Dia. PSC Motors

- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Deliver higher performance, efficiency, and starting torque than standard 3.3" shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others. UL Recognized and CSA Certified.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.
Open Air-Over									
1/100	1550	CW/CCW	120	0.22	1/4"	1 1/2"	4"	20"	20HN87 ‡#
1/70	1550	CW/CCW	120	0.30	1/4"	1 1/2"	4"	20"	20HN88 ‡#
1/50	1550	CW/CCW	120	0.35	1/4"	1 1/2"	4"	20"	20HN89 ‡#
1/40	1550	CW/CCW	120	0.37	1/4"	1 1/2"	4"	20"	20HN90 ‡#
1/30	1550	CW/CCW	120	0.50	1/4"	1 1/2"	4"	20"	20HN91 ‡#
1/25	1550	CW/CCW	120	0.59	1/4"	1 1/2"	4"	20"	20HN92 ‡#
1/20	3000	CW/CCW	115	0.63	5/16"	2 1/2"	3 11/16"	20"	6NZP6
	1550	CW/CCW	115	0.80	5/16"	2 1/2"	3 11/16"	20"	3RCX2
	1550	CW/CCW	208-230	0.40-0.38	5/16"	2 1/2"	3 11/16"	20"	3RCX8 †
	1550	CW/CCW	120	0.73	1/4"	1 1/2"	4"	20"	20HN93 ‡#
1/15	3000	CW/CCW	208-230	0.41-0.36	5/16"	2 1/2"	3 15/16"	20"	6NZR0 †
	1625	CWSE	115	1.00	5/16"	2 1/4"	5"	12"	3M499 *
	1550	CW/CCW	115	1.0	5/16"	2 1/2"	3 15/16"	20"	3RCX3
	1550	CW/CCW	208-230	0.50-0.46	5/16"	2 1/2"	3 15/16"	20"	3RCX9 †
	1550	CW/CCW	120	0.93	1/4"	1 1/2"	4 1/4"	20"	20HN94 ‡#
1/10	3000	CW/CCW	115	1.2	5/16"	2 1/2"	4 1/4"	20"	6NZP8
	1550	CW/CCW	115	1.4	5/16"	2 1/2"	4 1/4"	20"	3RCX4
	1550	CW/CCW	120	1.5	1/4"	1 1/2"	4 11/16"	20"	20HN95 ‡#
Totally Enclosed Air-Over									
1/100	1550	CW/CCW	120	0.21	1/4"	1 1/2"	4"	20"	20HN78 ‡#
1/70	1550	CW/CCW	120	0.27	1/4"	1 1/2"	4"	20"	20HN79 ‡#
1/50	1550	CW/CCW	120	0.32	1/4"	1 1/2"	4"	20"	20HN80 ‡#
1/40	1550	CW/CCW	120	0.37	1/4"	1 1/2"	4"	20"	20HN81 ‡#
1/25	1550	CW/CCW	120	0.54	1/4"	1 1/2"	4"	20"	20HN83 ‡#
1/20	3000	CW/CCW	208-230	0.32-0.29	5/16"	2 1/2"	3 11/16"	20"	6NZR8 †
	1550	CW/CCW	115	0.70	5/16"	2 1/2"	3 11/16"	20"	3RCX5
1/15	3000	CW/CCW	115	0.80	5/16"	2 1/2"	3 15/16"	20"	6NZR3
	3000	CW/CCW	208-230	0.40-0.38	5/16"	2 1/2"	3 15/16"	20"	6NZR6 †
	1550	CW/CCW	208-230	0.50-0.45	5/16"	2 1/2"	3 1/2"	20"	3RCY3
	1550	CW/CCW	120	0.85	1/4"	1 1/2"	4 1/4"	20"	20HN85 ‡#
1/10	3000	CW/CCW	208-230	0.62-0.56	5/16"	2 1/2"	4 1/4"	20"	6NZR7 †
	1550	CW/CCW	120	1.4	1/4"	1 1/2"	4 5/8"	20"	20HN86 ‡#
Totally Enclosed Fan-Cooled									
1/8	3000	CW/CCW	115	1.30	5/16"	2 5/16"	5 15/16"	12"	3M292
	3000	CW/CCW	230	0.60	5/16"	2 5/16"	5 3/16"	12"	4M090 *†

** Requires capacitor No. 2MDV3, available on Grainger.com®. † 60/50 Hz. ‡ Includes bracket and removable studs. # 2-prong polarized plug.*



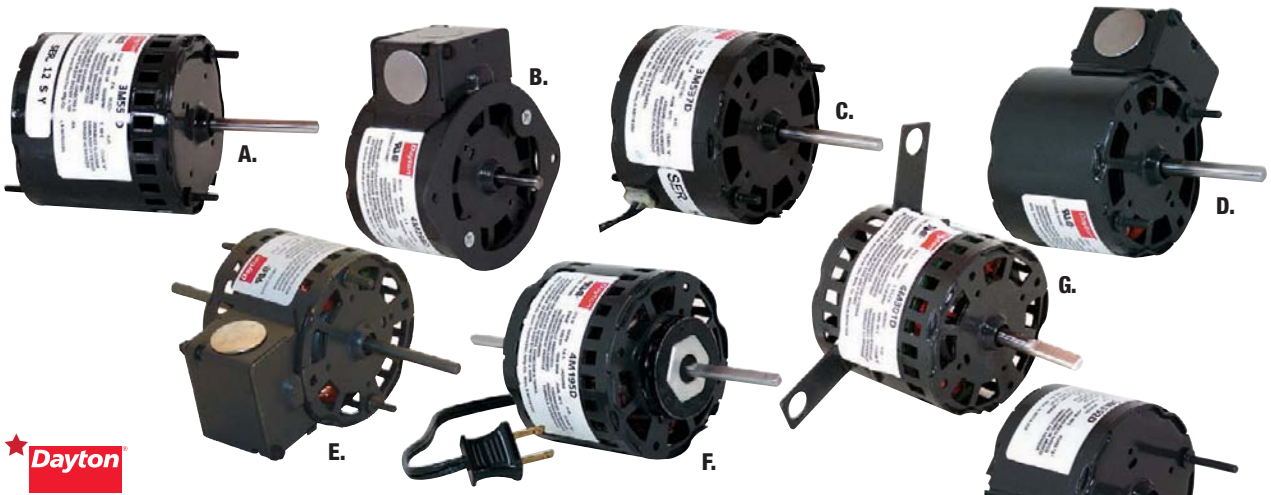
3-in-1™ HP 3.3"-Dia. PSC Motor

FASCO AC MOTORS & BLOWERS

- Enclosure: open air-over
- Thermal protection: auto
- 60/50 Hz
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Open air-over motor replaces 1/12, 1/15, and 1/20 HP PSC and low-efficient shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others. UL Recognized and CSA Certified.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
1/12	1550	CW/CCW	115/208-230	1.1/0.50	5/16"	3 1/8"	4 1/8"	2NFD1



Dayton

3.3"-Dia. Shaded Pole Motors

- All motors are 1-speed except No. 3M549 is 2-speed
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Max. ambient temp.: 40°C
- Duty: continuous

For OEM and replacement use in air-over fan and blower applications such as bathroom fans and range hoods. Internal fan on the totally-enclosed fan-cooled motors makes these motors suitable for mechanical-duty applications such as pumps, diaphragm compressors, laboratory equipment, and business machines. All-steel construction. UL Recognized and CSA Certified.

HP	Key	Nameplate RPM	Rotation	Voltage	Full Load Amps	Bearings	Mounting	Stud/Base Mtg. Pattern	Stud Location*	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.
Open Air-Over, 3.3" Body Dia.														
1/125	B	3000	CCWSE	115	0.49	Sleeve	Face	3⅞" x 3⅞"	2/BE	¼"	¾"	2 15/16"	6"	4M298
	C	3000	CWSE	115	0.60	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2¾"	12"	3M537
1/100	C	1550	CWSE	115	0.70	Sleeve	Stud	2⅞"	2/SE	¼"	2¼"	2⅛"	12"	3M534
	C	1550	CCWSE	115	0.70	Sleeve	Stud	2⅞"	2/SE	¼"	2¼"	2¾"	12"	3M535
	C	1550	CWSE	115	0.70	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2¾"	12"	3M536
	A	3000	CWSE	115	0.70	Sleeve	Stud	2⅞"	2/SE	¼"	1⅜"	3½"	12"	4M299
1/70	A	1550	CWSE	115	0.70	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	3⅜"	16"	3M560
	C	1550	CWSE	115	0.75	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2⅝"	21"	3M538
	C	1550	CCWSE	115	0.75	Sleeve	Stud	2⅞"	2/BE	¼"	2⅜"	2⅝"	21"	3M539
	C	3000	CWSE	115	0.80	Sleeve	Stud	2⅞"	2/SE	¼"	2¼"	2½"	12"	3M729
1/50	C	1550	CWSE	115	0.80	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	3 1/16"	21"	3M542
	C	1550	CCWSE	115	0.85	Sleeve	Stud	2" x 2"	4/OSE	¼"	2¼"	2¼"	10"	4M193 †
	D	1550	CWSE	230	0.50	Sleeve	Stud	2⅞"	2/SE	5/16"	2¼"	2½"	12"	3M726
	C	3000	CWSE	115	0.90	Sleeve	Stud	2⅞"	2/BE	¼"	2⅜"	3 9/16"	12"	3M545
	D	3000	CWSE	115	1.20	Sleeve	Stud	2⅞"	2/SE	¼"	2¼"	3"	12"	3M728
	E	3000	CCWLE	115	0.98	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2 9/16"	12"	3M730
1/40	A	1550	CWSE	115	1.00	Sleeve	Stud	2⅞"	2/BE	5/16"	2"	4 3/16"	15"	3M562
	C	1550	CWSE	115	1.10	Sleeve	Stud	2⅞"	2/BE	5/16"	2 5/16"	3⅛"	12"	3M543
	C	1550	CCWSE	115	1.10	Sleeve	Stud	2⅞"	2/BE	5/16"	2 5/16"	3⅛"	12"	3M544
	D	1550	CWSE	115	0.97	Sleeve	Stud	2⅞"	2/SE	5/16"	2"	3"	12"	3M722
	E	1550	CWLE	115	1.15	Sleeve	Stud	2⅞"	2/BE	5/16"	2 5/16"	5⅜"	12"	3M724
	D	3000	CWSE	230	0.60	Sleeve	Stud	2⅞"	2/SE	5/16"	2¼"	3⅛"	6"	3M725
1/30	D	3000	CWSE	115	1.20	Sleeve	Stud	2⅞"	2/SE	5/16"	2⅜"	3"	12"	3M777
	C	1550	CWSE	115	1.20	Sleeve	Stud	2" x 2"	4/BE	5/16"	2¼"	3½"	16"	3M546
	C	1550	CWSE	115	1.20	Sleeve	Stud	2" x 2"	4/SE	5/16"	2⅜"	2⅞"	21"	3M549
1/25	F	1550	CWLE	115	1.80	Sleeve	Ring	—	2/BE	¼"	2⅜" & 2⅜"	4 15/16"	10"	4M195 †
	D	1550	CWSE	115	2.10	Sleeve	Stud	2" x 2"	4/SE	5/16"	2¼"	2¾"	6"	3M778
1/20	E	1550	CCWLE	115	2.10	Sleeve	Stud	2" x 2"	4/BE	5/16"	2 5/16"	5 3/16"	12"	3M083
	E	1550	CWSE	115	2.00	Sleeve	Stud	2" x 2"	4/BE	5/16"	2"	3½"	16"	3M547
1/15	C	3000	CWSE	115	2.00	Sleeve	Stud	2" x 2"	4/SE	5/16"	2¼"	3⅝"	16"	3M548
	G	1550	CCWSE	115	2.50	Sleeve	Lug	6⅛"	2/BE	5/16"	2"	3"	12"	4M301
Totally Enclosed Air-Over, 3.3" Body Dia.														
	H	1550	CWSE	115	0.60	Sleeve	Stud	2⅞"	2/BE	¼"	2 5/16"	3¼"	10"	3M552 †
1/100	H	1550	CCWSE	115	0.60	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	3¼"	10"	3M660 †
	I	1550	CWSE	115	0.60	Sleeve	Stud	2⅞"	2/BE	¼"	2⅜"	2⅞"	12"	4M216
1/70	I	1550	CWSE	115	0.70	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2⅞"	12"	3M554
	I	1550	CCWSE	115	0.70	Sleeve	Stud	2⅞"	2/BE	¼"	2¼"	2 13/16"	12"	3M661
	I	1550	CWSE	115	1.00	Sleeve	Stud	2⅞"	2/BE	5/16"	2¼"	3⅜"	12"	3M555
1/40	I	1550	CCWSE	115	1.00	Sleeve	Stud	2⅞"	2/BE	5/16"	2¼"	3⅜"	12"	3M662
	J	1550	CWSE	115	1.10	Sleeve	Stud	2⅞"	2/SE	5/16"	2 5/16"	2¾"	12"	3M556
	I	3000	CWSE	115	1.20	Sleeve	Stud	2⅞"	2/BE	¼"	2 5/16"	3 13/16"	12"	4M094
1/30	I	1550	CCWSE	115	1.20	Sleeve	Stud	2⅞"	2/BE	5/16"	2½"	3½"	12"	4M199
	K	1550	CWSE	115	1.20	Sleeve	Stud	2" x 2"	4/BE	5/16"	2¼"	3⅝"	15"	3M557
Totally Enclosed Fan-Cooled, 4" Body Dia.														
	L	1550	CWSE	115	2.0	Sleeve	Stud	2" x 2"	4/SE	5/16"	2¼"	4¼"	12"	5K001
	L	1550	CWSE	115	1.80	Ball	Stud	2" x 2"	4/SE	5/16"	2¼"	4¼"	12"	5K004
1/20	L	1550	CWSE	230	0.90	Sleeve	Stud	2" x 2"	4/SE	5/16"	2¼"	4¼"	12"	5K003
	L	1550	CWSE	230	1.00	Ball	Stud	2" x 2"	4/SE	5/16"	2¼"	4¼"	12"	3M001
	L	1550	CCWSE	115	1.80	Ball	Stud	2" x 2"	4/SE	5/16"	2¼"	4¼"	12"	3M290
	L	3000	CWSE	115	1.80	Sleeve	Stud	2" x 2"	4/SE	5/16"	2¼"	5"	12"	4M204
1/15	L	1550	CWSE	115	2.30	Sleeve	Stud	2" x 2"	4/SE	5/16"	2⅜"	4½"	12"	3M363
	L	1550	CCWSE	115	2.30	Sleeve	Stud	2⅞"	2/SE	5/16"	2⅜"	4½"	12"	3M291
	M	1550	CWSE	115	2.30	Sleeve	Cradle Base	3¾" x 2¾"	2/BE	5/16"	2"	5½"	12"	3M364

** BE = Both Ends, SE = Shaft End, OSE = Opposite Shaft End. † 2-prong polarized plug.*



IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

FASCO AC MOTORS & BLOWERS

3.3"-Dia. 1-Phase Motors

- Thermal protection: all auto except for No. 38N527
- Service factor: 1.0
- Max. ambient temp.: 40°C
- Duty: continuous

Suitable for air-moving or mechanical applications, including fans, air conditioners, heaters, pumps, and compressors. PSC motors include capacitor. Stud base pattern is 2⅞" x 2⅞", except No. 38N540 is 3⅞" x 3⅞". UL Recognized and CSA Certified, except Nos. 32NA47, 38N515, 38N516, 38N528, 38N535, 38N538, 38N552, are UL Recognized only.



Shaded Pole, Totally Enclosed Air-Over



Shaded Pole, Totally Enclosed Fan-Cooled



Shaded Pole, Totally Enclosed Nonventilated



Permanent Split Capacitor, Open Dripproof



Permanent Split Capacitor, Totally Enclosed Fan-Cooled



HP	Nameplate RPM	No. of Speeds	Rotation	Voltage	Full Load Amps	Ins. Class	Mounting	Stud Location‡	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Mfr. Model	Item No.	
Shaded Pole, Open Air-Over																
	1550	1	CWSE	115	2.1	B	Stud	4/BE	Sleeve	5⁄16"	3"	3"	13"	D1124	**32NA49**	**
	1550	1	CWSE	208-230	1.0-1.0	B	Stud	4/SE	Sleeve	5⁄16"	2⅝"	4¼"	32"	D470	**32NA56**	
	1550	1	CCWSE	208-230	1.1-1.1	B	Stud	4/SE	Sleeve	5⁄16"	2½"	4¼"	35"	D471	**32NA57**	
1⁄20	1550	1	CCWSE	115	2.0	B	Stud	4/SE	Sleeve	5⁄16"	2⅝"	4¼"	34"	D473	**32NA59**	
	1550	1	CWSE	115	2.0	B	Stud	4/SE	Sleeve	5⁄16"	2⅝"	4¼"	34"	D472	**32NA60**	
	1500	1	CCWSE	115	1.9	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	2¾"	15"	D1101	**32NA51**	**
	1500	1	CCWSE	208-230	1.15-1.35	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	3"	15"	D1103	**32NA52**	**
	1450	1	CCWLE	208-230	0.9-1.0	B	Stud	4/BE	Sleeve	5⁄16"	2⅛"	3¼"	14"	D0396	**32NA47**	**
1⁄15	1550	1	CWSE	208-230	1.1-1.1	B	Stud	4/BE	Sleeve	5⁄16"	3"	3⅝"	13"	D1126	**32NA50**	**
	1550	1	CCWSE	115/208-230	1.9/0.84-0.94	B	Face	—	Ball	5⁄16"	2½"	4½"	—	D671B	**32NA58**	
Shaded Pole, Open Dripproof																
1⁄160	600	1	CCWSE	208-240	0.50-0.50	B	Stud	4/OSE	Sleeve	5⁄16"	1"	2⅝"	—	D107	**38N526**	
1⁄125	1500	2	CCWLE	115	0.50	B	Stud	4/BE	Sleeve	¼"	3¼"	2¾16"	—	D129	**38N527**	†
	3000	1	CCWSE	115	0.62	A	Stud	2/OLE	Sleeve	¼"	¼"	2¼"	—	D201	**38N516**	
1⁄100	3000	1	CCWSE	120	0.60	B	Stud	4/BE	Sleeve	¼"	3½"	2 1⁄16"	—	D229	**38N529**	
	1540	1	CW/CCW	115	0.60	B	Lug	—	Sleeve	5⁄16"	1"	3⅞"	—	D1162	**38N528**	
1⁄90	1300/1550	1	CCWSE	240	0.40	B	Stud	4/BE	Sleeve	¼"	1½"	2½"	—	D1119	**38N530**	
1⁄85	3000	1	CWSE	115	0.62	A	Stud	2/OLE	Sleeve	¼"	2⅜"	2"	—	D200	**38N515**	
	3000	1	CWSE	115	0.62	A	Stud	4/BE	Sleeve	¼"	2¼"	2⅜"	—	D202	**38N531**	
	3000	1	CWSE	115	0.92	B	Stud	4/BE	Sleeve	¼"	2"	2½"	—	D228	**38N532**	
1⁄50	2500/3000	1	CWSE	230	0.64	B	Stud	4/BE	Sleeve	¼"	1 5⁄16"	3¾"	—	D608	**38N518**	
	1300	3	CWSE	120	1.1	B	Stud	4/BE	Sleeve	¼"	1¾"	2 5⁄16"	—	D1134	**38N533**	
	1550	1	CCWSE	115	1.0	B	Stud	2/OSE	Sleeve	¼"	1¾"	2⅛"	—	D106	**38N535**	
1⁄40	1550	1	CCWSE	115	1.0	B	Stud	2/OSE	Sleeve	¼"	1½"	2 3⁄16"	—	D105	**38N538**	
	1500/1250	1	CWSE	230	0.60	B	Stud	4/BE	Sleeve	¼"	2¼"	2½"	—	D190	**38N536**	
	1500	3	CCWLE	115	1.3	B	Stud	4/BE	Sleeve	5⁄16"	4"	2½"	—	D128	**38N537**	†
	3000	1	CCWLE	115	1.1	A	Stud	4/BE	Sleeve	¼"	3¼"	3⅝"	—	D209	**38N519**	†
	3000	1	CWSE	115	1.1	A	Stud	4/BE	Sleeve	¼"	3"	3⅝"	—	D208	**38N520**	
	1550	1	CCWSE	115	1.3	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	2⅝"	—	D515	**38N541**	
1⁄30	1550	2	CWSE	115	1.4	B	Stud	4/BE	Sleeve	5⁄16"	1½"	2 13⁄16"	—	D532	**38N542**	
	1500	1	CWLE	115	1.3	B	Stud	4/BE	Sleeve	5⁄16"	2"	3 1⁄16"	—	D136	**38N539**	†
	1500	1	CWSE	240	2.6	B	Stud	4/BE	Ball	5⁄16"	3½"	3"	—	D1118	**38N540**	
	1500	2	CCWSE	115	1.3	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	2⅝"	—	D181	**38N543**	
	3000	1	CWSE	230	0.65	B	Stud	4/BE	Sleeve	¼"	2¼"	3¼"	—	D216	**38N548**	
	1550	1	CWLE	115	1.8	B	Stud	4/BE	Sleeve	5⁄16"	1⅞"	3"	—	D364	**38N545**	†
1⁄25	1550	1	CWLE	115	2.0	B	Stud	4/BE	Sleeve	5⁄16"	1⅞"	2⅛"	—	D365	**38N546**	†
	1550	2	CWSE	115	1.5	B	Stud	4/BE	Sleeve	5⁄16"	2"	3¼"	—	D332	**38N549**	
	1500/1200	1	CCWLE	230	0.90	B	Stud	4/BE	Sleeve	5⁄16"	3½"	3⅛"	—	D636	**38N547**	†
	1550	1	CWSE	460	0.50	B	Stud	4/BE	Sleeve	5⁄16"	2⅛"	2¾"	—	D186	**38N552**	
1⁄20	1500	1	CWSE	230	0.90	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	2⅛"	—	D188	**38N550**	
	1500	1	CCWSE	230	0.90	B	Stud	4/BE	Sleeve	5⁄16"	2¼"	2⅞"	—	D189	**38N551**	
1⁄16	3000	1	CWLE	115	2.1	B	Stud	2/BE	Sleeve	¼"	2¾"	3⅞"	—	D213	**38N553**	†
	3000	1	CWLE	230	1.0	A	Stud	2/BE	Sleeve	¼"	2½"	3 13⁄16"	—	D211	**38N554**	†
1⁄15	1600	1	CWSE	120	2.0	B	Stud	4/SE	Sleeve	5⁄16"	3"	3"	—	D109	**38N555**	
	1600	2	CCWSE	115	2.9	B	Lug	—	Sleeve	5⁄16"	2"	4¼"	—	D1161	**38N556**	
Shaded Pole, Totally Enclosed Air-Over																
	1550	1	CCWSE	115	0.70	B	Stud	2/BE	Sleeve	¼"	1¼"	2"	8"	D1109	**32NA46**	#
1⁄100	1550	1	CWSE	115	0.60	B	Stud	4/BE	Sleeve	¼"	2¼"	2 5⁄32"	13"	D540	**32NA53**	#
	1550	1	CCWSE	115	0.60	B	Stud	4/BE	Sleeve	¼"	2¼"	2 5⁄32"	13"	D541	**32NA54**	#
Shaded Pole, Totally Enclosed Fan-Cooled																
	3000	1	CWSE	115/230	1.7/0.80	A	Stud	4/SE	Sleeve	5⁄16"	6½"	4⅝"	—	D214	**38N521**	
1⁄20	3000	1	CCWSE	115/230	1.7/0.80	A	Stud	4/SE	Ball	5⁄16"	6½"	4⅝"	—	D215	**38N522**	
	3000	1	CWSE	115/230	1.7/0.80	A	Stud	4/SE	Ball	5⁄16"	6½"	4⅝"	—	D220	**38N523**	
Shaded Pole, Totally Enclosed Nonventilated																
1⁄80	1500	1	CWSE	115	0.60	B	Stud	4/BE	Sleeve	¼"	2¼"	2 3⁄16"	—	D122	**38N561**	
	1500	1	CCWSE	115	0.60	B	Stud	4/BE	Sleeve	¼"	2¼"	2⅜"	—	D123	**38N562**	
	3000	1	CWSE	115	0.75	A	Stud	4/BE	Sleeve	¼"	1¾"	2⅜"	—	D402	**38N563**	
1⁄60	3000	1	CCWSE	115	0.75	A	Stud	4/BE	Sleeve	¼"	2 9⁄16"	2 1 1⁄16"	—	D403	**38N564**	
	1500	1	CWSE	115	0.60	B	Stud	4/BE	Sleeve	5⁄16"	2 9⁄16"	2½"	—	D182	**38N565**	
	1550	3	CWSE	115	0.90	B	Stud	4/OLE	Sleeve	5⁄16"	2½" & 1⅛"	2¾"	—	D1139	**38N534**	
	1500	1	CWSE	115	0.80	B	Stud	4/BE	Sleeve	¼"	2¼"	2½"	—	D124	**38N566**	
1⁄50	1500	1	CCWSE	115	0.80	B	Stud	4/BE	Sleeve	¼"	2¼"	2½"	—	D125	**38N567**	
	1500	1	CCWSE	115	0.90	B	Stud	4/BE	Sleeve	¼"	2¼"	2 3⁄16"	—	D601	**38N568**	
	1500	1	CWSE	115	0.90	B	Stud	4/BE	Sleeve	¼"	2¼"	2 3⁄16"	—	D602	**38N569**	
	1500	1	CWSE	230	0.40	B	Stud	4/BE	Sleeve	¼"	2½"	2 15⁄16"	—	D624	**38N570**	
1⁄40	3000	2	CCWLE	115	1.0	A	Stud	4/BE	Sleeve	¼"	2 1 1⁄16"	2½"	—	D205	**38N571**	†
1⁄35	1500	2	CWSE	115	1.5	B	Stud	2/OSE	Sleeve	¼"	1"	2 13⁄16"	—	D534	**38N572**	
1⁄30, 1⁄65	1500	2	CCWLE	115	1.0	B	Stud	4/BE	Sleeve	5⁄16"	2 13⁄16"	3 3⁄16"	—	D137	**38N573**	†
1⁄25	1550	1	CWSE	115	1.2	B	Lug	2/OSE	Sleeve	5⁄16"	1⅞"	3"	—	D184	**38N544**	‡
	1550	1	CWSE	115/230	1.3/0.70	B	Stud	2/BE	Sleeve	5⁄16"	2½"	3⅛"	—	D1164	**38N574**	
Permanent Split Capacitor, Open Dripproof																
1⁄12	1550	1	CW/CCW	115/230	1.1/0.60	B	Stud	4/BE	Sleeve	5⁄16"	3"	3½"	—	D1127	**38N557**	
1⁄10	3200	1	CW/CCW	208-230	0.80-0.80	B	Stud	4/BE	Ball	5⁄16"	3¼"	4¼"	—	D404	**38N558**	
	1590	1	CWSE	230	1.0	B	Stud	4/BE	Sleeve	5⁄16"	3¾"	4⅝"	—	D503	**38N560**	
Permanent Split Capacitor, Totally Enclosed Fan-Cooled																
1⁄20	3200	1	CW/CCW	115	0.80	B	Stud	4/SE	Ball	5⁄16"	2¼"	4⅜"	—	D218	**38N524**	
⅛	3000	1	CW/CCW	115	1.8	B	Stud	4/SE	Ball	5⁄16"	2¼"	5⅛"	—	D219	**38N525**	
Permanent Split Capacitor, Totally Enclosed Nonventilated																
1⁄10	3200	1	CW/CCW	115	1.4	B	Stud	4/BE	Ball	5⁄16"	3¼"	4¼"	—	D405	**38N559**	

*† Double shaft motor. ‡ Includes conduit box. # 2-prong polarized plug. ** Round 2-pin plug.*



OPAO,
Stud Mount
No. 3M569



OPAO,
Cradle-Base Mount
No. 3M577



Open,
Stud Mount
No. 3M573



TEAO,
Stud Mount
No. 3M568

4.4"-Dia. Shaded Pole Fan Motors

- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: sleeve, except No. 4M222 has ball
- No. 4M222 body dia. is 5"
- Max. ambient temp.: 40°C
- Duty: continuous

Motor shell is sturdy steel construction with an open lamination design. Can be used as new or replacement motors in a wide range of small fan and blower applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	No. of Speeds	Rotation	Voltage	Full Load Amps	Mounting	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
Open Air-Over												
1/15	1550	1	CWSE	115	2.5	Stud	2¾" x 2¾"	⅜"	2"	3 1/16"	**3M569**	
	1550	2	CWSE	115	2.5	Stud	2¾" x 2¾"	⅜"	2"	4 5/16"	**3M571**	
	1550	1	CWSE	115	2.4	Cradle Base	1 3/16" x 3 15/16"	⅜"	2"	4⅝"	**3M577**	
	1550	1	CWSE	230	1.2	Cradle Base	1 3/16" x 3 15/16"	⅜"	2"	4⅝"	**3M578**	
1/11	1550	3	CCWSE	115	3.0	Stud	2¾" x 2¾"	½"	2⅝"	3¾"	**4M222**	
1/10	1550	1	CWSE	115	3.3	Stud	2¾" x 2¾"	⅜"	2"	4 7/16"	**3M059**	
	1550	1	CWSE	115	2.8	Stud	2¾" x 2¾"	⅜"	2"	4 7/16"	**3M574**	
	1550	2	CWSE	115	3.3	Stud	2¾" x 2¾"	⅜"	2"	4½"	**3M779**	*
Open												
1/15	1550	1	CWSE	115	2.5	Stud	2¾" x 2¾"	⅜"	2"	4⅝"	**3M573**	
1/10	1550	1	CWSE	115	3.3	Stud	2¾" x 2¾"	⅜"	2"	5⅜"	**3M576**	*
	1550	1	CWSE	115	3.3	Cradle Base	2 7/16" x 3 15/16"	⅜"	2"	5 15/16"	**3M580**	
Totally Enclosed Air-Over												
1/20	1550	1	CWSE	115	1.9	Stud	2¾" x 2¾"	⅜"	2"	4 7/16"	**3M567**	
	1550	1	CWSE	115	1.9	Stud	2¾" x 2¾"	⅜"	2"	4 7/16"	**3M568**	*
	1550	1	CWSE	115	1.9	Cradle Base	1 1/16" x 3 15/16"	⅜"	2"	5"	**3M581**	

** Has 5.0 cu.-in. junction box.*

4.4"-Dia. Energy Efficient PSC Fan Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Capacitor included

Compact, single-speed PSC motors run at a higher power factor, with a lower starting current draw and lower running current draw than larger shaded pole motors. Also provide higher starting torque and smoother, quieter operation. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
Open Air-Over									
1/20	1625	115	1.2	2¾" x 2¾"	⅜"	2½"	3¼"	**10J172**	
	1625/1350	208-230	0.60/0.80	2¾" x 2¾"	⅜"	2½"	3¼"	**10J175**	*
1/15	1625	115	1.6	2¾" x 2¾"	⅜"	2½"	3⅜"	**10J173**	
	1625/1350	208-230	0.60/0.65	2¾" x 2¾"	⅜"	2½"	3⅜"	**10J176**	*
1/10	1625	115	1.8	2¾" x 2¾"	⅜"	2½"	3¾"	**10J174**	
	1625/1350	208-230	0.80/0.95	2¾" x 2¾"	⅜"	2½"	3¾"	**10J177**	*
Totally Enclosed Air-Over									
1/20	1625	115	1.2	2¾" x 2¾"	⅜"	2½"	3⅜"	**10J178**	
	1625/1350	208-230	0.60/0.80	2¾" x 2¾"	⅜"	2½"	3⅜"	**10J181**	*
1/15	1625	115	1.0	2¾" x 2¾"	⅜"	2½"	3½"	**10J179**	
	1625/1350	208-230	0.55/0.58	2¾" x 2¾"	⅜"	2½"	3½"	**10J182**	*
1/10	1625	115	2.0	2¾" x 2¾"	⅜"	2½"	3¾"	**10J180**	
	1625/1350	208-230	0.86/0.94	2¾" x 2¾"	⅜"	2½"	3¾"	**10J183**	*

** 60/50 Hz.*



Attic Ventilator Replacement Motors

- Enclosure: open air-over
- Thermal protection: 1 shot
- Mounting: stud
- Body dia.: 5"
- Shaded pole-type

Single-speed motors feature stud mounting for many common installations. Suitable as a replacement for many residential attic fan ventilators including Broan®. UL Recognized, CSA Certified.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
1/11	1000	CWSE	120	3.1	4⅝ x 4⅝ x 4⅝"	½"	2¾"	2 1/16"	**10J151**
1/7	1050	CWSE	120	4.5	4⅝ x 4⅝ x 4⅝"	½"	2½"	2¾"	**10J152**



Shaft Adapter Bushing

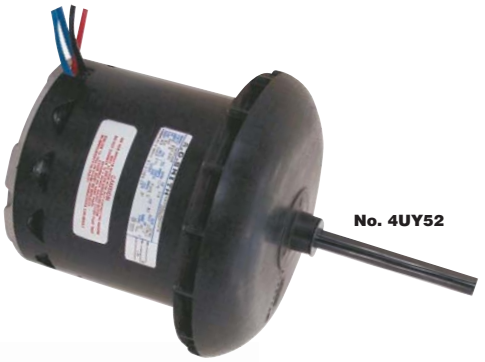
⅜" I.D. x ½" O.D. bushing increases ⅜"-dia. shaft to ½" dia. Plated finish and hole for setscrew. 1⅛"L.

Item No.
6X452





No. 4UY64



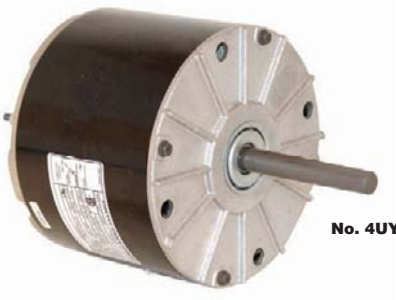
No. 4UY52



No. 4ME17



No. 4VA19



No. 4UY49

Century®

1-Phase OEM Replacement Fan and Blower Motors

- For more specifications or cross reference, see Grainger.com®

For Use With	HP	Nameplate RPM	Frame	Voltage	Mounting	Mfr. Model	Item No.
Fan and Blower Motors							
Permanent Split Capacitor							
Aaon	¼	3200	48Y	460	Band	OAN470	**12N952**
	⅓	1100	48Y	460	Band	OAN010	**12N953**
	¾	1075	48Y	460	Band	OAN1076V1	**12N951**
	¾	1075	48Y	208-230	Band	OAN460	**12N954**
	¾	1075	48Y	460	Band	OAN1076	**12N950**
	¾	1075	48Y	460	Band	OAN747	**12N955**
	¾	1075	48Y	460	Band	OAN140	**12N956**
Addison	⅛ to ⅛	1075	48Y	230	Stud	OAD1016	**4UY61**
Amana	1/12	825	48Y	208-230	Stud	OAM10088	**4UY83**
	⅙	825	48Y	208-230	Stud	OAM1018	**4UY84**
American Air Filter	⅛	700	48Y	115	Cradle Base	0547A	**2FGP6**
American Standard	⅓	1075	48Y	230	Cradle Base	OAS40056	**4VA21**
Arkia, Tappan & SJC	⅓	825	48Y	115	Band	OKB1038	**4VA14**
Arkla	½	825	48Y	230	Band	OKB1058	**4VA10**
Carrier/BDP	1/12	1100	48Y	208-230	Stud	OCA10086	**4UY85**
	1/10	1100	48Y	208-230	Stud	OCA10106	**4UY86**
	⅙	1075	48Y	208-230	Lug	9650	**4ME21**
	⅙	1075	48Y	208-230	Band	OCA1016	**4UY92**
	⅙	1500	48Y	208-230	Stud	OCA1014	**4UY87**
	⅕	825	48Y	208-230	Stud	OCA10208	**4UY88**
	¼	1075	48Y	208-230	Lug	OCB1026A	**2GMR1**
	¼	1075	48Y	230	Band	OCC1026A	**2GMR3**
	¼	1100	48Y	208-230	Stud	OCA1026	**4UY89**
	⅓	1075	48Y	208-230	Lug	OCE1036	**4ME23**
	⅓	1075	48Y	208-230	Lug	OCA1036	**4ME11**
	⅓	1075	48Y	208-230	Lug	OCF1036	**4ME19**
	⅓	1075	48Y	208-230	Lug	OCB1036A	**2GMR2**
	⅓	1075	48Y	230	Stud	OMM1036	**4UY59**
	½	1050	48Y	460	Stud	FEH1056S	**3RCV9**
	½	1075	48Y	200-230/460	Lug	OCA1056	**3RCV2**
	½	1075	48Y	208-230	Lug	OCB1056	**4ME27**
	½	1075	48Y	208-230	Band	OCD1056	**4UY53**
Copeland	⅙	1625	42Y	230	Cradle Base	OCP0251	**4UY90** *
	⅙	1625	48Y	208-230	Stud	174A	**2FGP5**
	¼	1625	48Y	208-230	Band	OCP1024	**4UY62**
	⅓	1625	48Y	208-230	Cradle Base	OCP0108	**2ZA22**
Fedders	¼	1100	42Y	208-230	Ring	515	**4UY66**
First Company/ Summit	⅙	1500	42Y	115	Cradle Base	955	**3RCW7**
Friedrich	⅓	1075	48Y	230	Lug	OFR1036	**4ME10**
Gibson	⅓	1300	48Y	230	Lug	9648	**4MB86**
Goodman	⅙	1075	48Y	208-230	Stud	OGD1016	**3RCU8**
	¼	1075	48Y	208-230	Stud	OGD1026	**3RCW5**
Hill Refrigeration	⅓	1625	48Y	208-230	Cradle Base	160A	**2FGP4**
	1	1075	48Y	208-230	Cradle Base	OHR1106	**4UY64**
Hussmann	⅛	1550	48Y	230	Cradle Base	OHS1004	**4UY79**
	⅙	1075	48Y	208-230	Stud	OHS10206	**4UY80**
Kramer Trenton	¼	1075	48Y	115/208-230	Cradle Base	OKT1026	**4UY81** *

** 60/50 Hz. † Capacitor required, sold separately.*

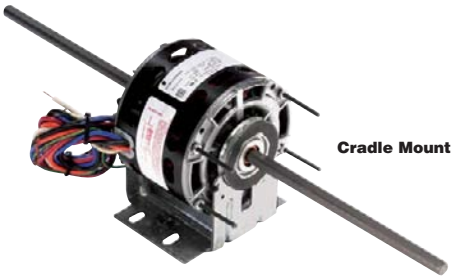
For Use With	HP	Nameplate RPM	Frame	Voltage	Mounting	Mfr. Model	Item No.
Lennox	¼	1075	48Y	230	Ring	OLE1026	**4UY60**
	⅓	825	48Y	230	Ring	OLE1038V1	**4UY67**
	⅓	1075	48Y	208-230	Lug	OLG1036	**4MB90**
	⅓	1075	48Y	115	Ring	OLE1036A	**2GMR4**
	⅓	1075	48Y	208-230	Ring	OLE1036H	**4VA13**
	1	1075	48Y	230	Band	OLE1106	**4UY51**
	1	1075	48Y	460	Band	OLE1106H	**4UY52**
Penn Ventilator	1/7	1550	42Y	115	Lug	OPV747	**12N958**
	⅛	1550	42Y	115	Lug	OPV748	**12N957**
Rheem/Ruud	⅛	825	48Y	208-230	Stud	ORM1008	**4UY91**
	⅛	825	48Y	208-230	Band	ORM1008V1	**4VA26**
	⅙	1075	48Y	208-230	Stud	ORM1016V1	**4UY74**
	⅛ to ⅛	1075	48Y	208-230	Stud	ORM1016	**4UY70**
	⅕	1075	48Y	208-230	Stud	ORM10206V1	**4UY93**
	¼	825	48Y	208-230	Band	ORM1028	**4VA28** *
	¼	1075	48Y	115	Stud	ORM1026L	**4VA15**
	⅓	825	48Y	208-230	Band	ORM1038	**4VA30** *
	⅓	1075	48Y	208-230	Stud	ORM1036V1	**4UY71**
	⅓	1075	48Y	208-230	Stud	ORM1036	**4UY95**
	½	825	48Y	208-230	Band	ORM1058	**4VA33** *
	½	1050	48Y	115	Band	ORM1056	**4VA31**
	½	1075	48Y	115	Band	ORM10563	**4VA32**
	¾	1075	48Y	115	Band	ORM1076	**4VA34**
Shaded Pole							
Broan	1/15	950	42Y	115	Band	OBR40066	**4VA23**
	1/12	1000	42Y	115	Band	OBR40086	**4VA24**
	1/12	1050	42Y	115	Lug	9649	**4ME17**
	1/10	1100	42Y	115	Band	OBR40016	**4VA25**
Jenn Air	1/15	1550	4.3	115	Stud	484	**45GL41**
Penn Ventilator	1/20	1045	42Y	115	Stud	975	**4VA19**

For Use With	HP	Nameplate RPM	Frame	Voltage	Mounting	Mfr. Model	Item No.
Room Air Conditioner, Evaporative Cooler and Other Shaft-Mounted Fan and Blower Applications							
Permanent Split Capacitor							
First Company/ Summit	¼	1625	42Y	208-230	Ring	OFC1024	**3RCV8**
Trane	⅓	1075	48Y	115	Ring	OTR1036	**4VA29** †
	¼	825	48Y	200-230	Stud	OTR1028	**4UY97** †
	⅕	1075	48Y	115	Ring	OTR10206	**4VA27** †
	⅙	1550	42Y	208-230	Stud	OTR4513	**4UY73**
	⅛	1650	48Y	200-230	Stud	OTR1004	**4UY96** †
Unilux	⅛ to 1/30	1000	42	115	T-Flex	799	**3RCV4**
York	1	1075	48Y	115	Band	OYK1106	**4UY98**
	½	1090	48Y	208-230	Stud	OYK1056V1	**4UY48**
	½	1110	48Y	115	Band	OYK1056S	**4UY99**
	¼	850	48Y	208-230	Stud	OYK1028	**4UY50** *
	⅛	1075	48Y	208-230	Stud	OYK1006	**4UY49**
Shaded Pole							
Tecumseh	1/15	1500	42Y	230	Face	OTC6001	**3RCV3**
	1/20	1500	42Y	230	Face	OTC6004	**3RCU9**
Trane	⅛	1550	42Y	230	Ring	598	**4UY65**

Dayton Century®

Shaded Pole Room Air Conditioner Motors





- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve
- Max. ambient temp.: 40°C
- Duty: continuous

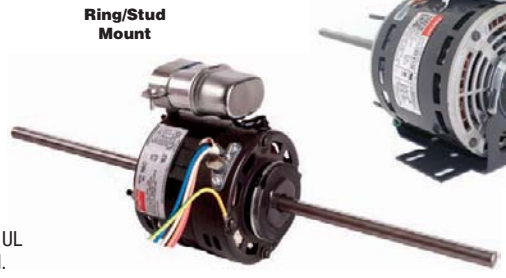
For room air conditioners, evaporative coolers, remote fan coil units, and other shaft-mounted fan and blower applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	No. of Speeds	Rotation	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	
4.4 Frame, 4.4" Body Dia., Dayton															
1/25	1550	3	CCWLE	115	1.4	Ring	3 3/4"	2 1/2"	—	3/8"	6 3/4"	4 1/2"	—	**4M295**	
1/20	1550	3	CCWLE	115	2.0	Ring	3 3/4"	2 1/2"	—	1/2"	6 3/4"	4 1/2"	—	**4M296**	
1/15	1550	3	CCWLE	115	2.5	Ring	3 3/4"	2 1/2"	—	1/2"	6 3/4"	4 1/2"	—	**4M297**	
1/10	1550	3	CCWLE	115	3.1	Ring	4 3/8"	2 1/2"	—	3/8"	6 3/4"	5 1/8"	—	**4M161**	
	1550	3	CCWLE	115	3.1	Ring	4 3/8"	2 1/2"	—	1/2"	6 3/4"	5 1/8"	—	**4M162**	
1/8	1550	4	CCWLE	115	4.3	Ring	4 1/2"	2 1/2"	—	1/2"	6 3/4"	5 3/16"	—	**4M163**	
1/6	1550	4	CCWLE	115	4.9	Ring	5"	2 1/2"	—	1/2"	6 9/16"	6 1/2"	—	**4M164**	
42Y Frame, 5" Body Dia., Century															
1/35	1050	4	CCWLE	115	2.0	Resilient Base	4 5/16"	2 1/2"	2 5/16" x 4"	1/2"	8"	4 1 1/16"	9673	**4UU46**	*
1/15	1050	4	CWLE	115	2.4	Cradle Base	4 1/16"	2 1/2"	2 5/16" x 4"	3/8"	7 3/4"	4 7/16"	9674	**4UU47**	*
	1050	4	CCWLE	115	2.4	Stud	4 to 5"	2 1/4"	2 5/16" x 4"	1/2"	10 1/2"	4"	389A	**4UU37**	*
	1050	4	CCWLE	115	2.4	Stud	4 to 5 1/8"	2 1/4"	2 5/16" x 4"	3/8"	8 1/2" and 8"	4"	393A	**4UU65**	
1/12	1050	3	CCWLE	115	4.0	Stud	4 1/16"	2 1/4"	2 5/16" x 4"	1/2"	8 1/4" and 8"	3 3/4"	9672	**4UU41**	
1/10	1550	3	CCWLE	115	3.5	Cradle Base	1 11/16 x 3 1/2"	—	—	1/2"	9"	4"	DBL4404	**3M721**	
	1550	4	CCWLE	115	3.5	Cradle Base	4 1/16"	2 1/2"	2 1/4" x 3 7/8"	1/2"	8 3/4"	4 7/16"	DBL4410	**4UU44**	
	1550	4	CCWLE	115	3.5	Cradle Base	4 1/16"	2 1/2"	2 1/4" x 3 7/8"	3/8"	8 3/4"	4 7/16"	DBL4411	**4UU45**	
	1550	4	CCWLE	208-230	2.1	Cradle Base	4 9/16"	2 1/2"	3 1/4" x 3 1/4"	3/8"	8"	4 15/16"	DBL4412	**4UU48**	
	1050	2	CCWLE	115	3.7	Cradle Base	4 1/16"	2 1/2"	—	1/2"	9 3/4"	4 7/16"	DBL64062	**4LY99**	
	1050	4	CCWLE	277	1.3	Cradle Base	4 1/16"	2 1/2"	—	1/2"	8 13/16"	4 7/16"	7DB6408	**3M864**	
	1050	5	CWLE	115	3.2	Cradle Base	4 1/16"	2 1/2"	—	1/2"	10 3/16"	4 7/16"	89	**4MA19**	*
	1050	5	CCWLE	115	3.5	Stud	3 7/8 to 4 7/8"	2 1/4"	2 1/4" x 3 7/8"	1/2"	10" and 9 7/8"	4 3/16"	DBL6409NB	**4UU42**	
1/8	1550	4	CCWLE	115	3.3	Cradle Base	4 9/16"	2 1/2"	3 1/4" x 3 1/4"	1/2"	9 3/8"	4 15/16"	9675	**4UU49**	
	1500	3	CCWLE	115	5.5	Stud	4 1/2 to 5 1/2"	2 1/4"	3 1/4" x 3 1/4"	3/8"	8 3/8" and 8"	4 1/2"	9671	**4UU40**	
	1050	4	CCWLE	115	4.4	Cradle Base	5"	2 1/2"	2 5/16" x 4"	1/2"	10"	4 15/16"	9676	**4UU50**	
1/6	1550	4	CCWLE	115	4.0	Cradle Base	4 9/16"	2 1/2"	3 1/8" x 3 1/8"	1/2"	8"	4 3/8"	DCL4423	**4UU51**	
	1050	2	CCWLE	115	5.8	Cradle Base	4 1/2"	2 1/2"	—	1/2"	8"	5 3/16"	9636	**4LY95**	
	1050	2	CCWLE	230	2.9	Cradle Base	4 3/4"	2 1/2"	—	1/2"	8"	5 3/16"	9637	**4LY97**	
	1050	3	CCWLE	230	2.9	Stud	4 3/4 to 5 3/4"	2 1/4"	2 5/16" x 4"	1/2"	10"	5 1/4"	348A	**4UU43**	
	1050	4	CCWLE	115	8.6	Cradle Base	4 13/16"	2 1/2"	2 5/16" x 4"	1/2"	8"	5 3/16"	9677	**4UU52**	
1/4	1050	4	CCWLE	115	8.5	Cradle Base	5 1/16"	2 1/2"	2 5/16" x 4"	1/2"	8 1/4"	6 3/16"	9678	**4UU53**	
42YZ Frame, 5" Body Dia., Century															
1/10	1050	4	CCWLE	277	1.6	Cradle Base	4 9/16"	2 1/2"	—	1/2"	8 5/16"	4 15/16"	7RAB4010	**4UB83**	

**** 60/50 Hz.***

Dayton

Permanent Split Capacitor Room Air Conditioner Motors



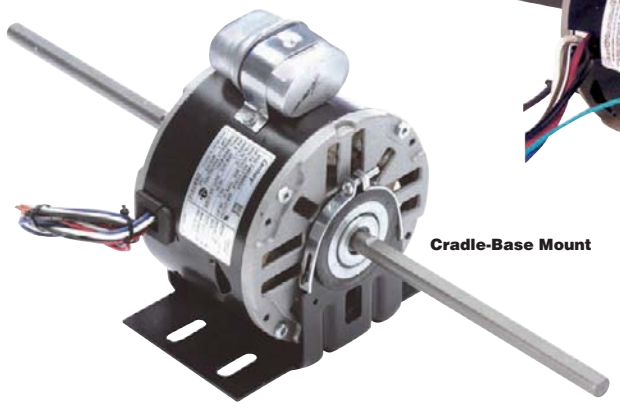


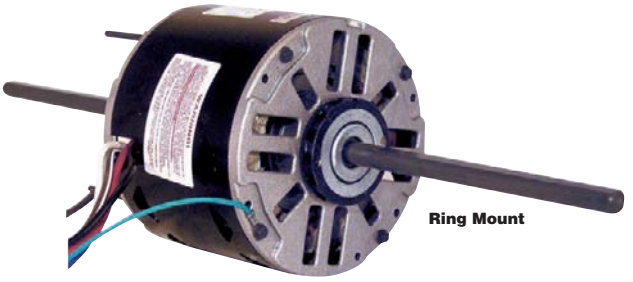
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve
- Duty: continuous
- Capacitor included

For heating/air conditioning, fan coil units, furnace blowers, unit heaters, and other shaft-mounted fan and blower applications. Feature quick-change reversing plug. UL Recognized and CSA Certified.

HP	Nameplate RPM	No. of Speeds	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.
Non-Standard Frame, 4 15/16" Body Dia.													
1/10	1550	3	115	1.43	Ring/Stud	4 9/16"	2 1/2"	3 1/8" x 3 1/8"	1/2"	6 3/4"	4 15/16"	40°C	**45EX57**
1/8	1550	4	115	1.9	Ring/Stud	4 7/16"	2 1/2"	3 1/8" x 3 1/8"	1/2"	6 3/4"	4 15/16"	40°C	**45EX58**
1/6	1550	4	115	2.5	Ring/Stud	5"	2 1/2"	3 1/8" x 3 1/8"	1/2"	6 3/4"	5 7/16"	40°C	**45EX59**
Non-Standard Frame, 4 29/32" Body Dia.													
1/10	1550	3	115	1.5	Stud	4 1/2"	2 1/2"	3 1/16" x 3 1/16"	3/8"	6 3/4"	4 29/32"	40°C	**45EX60**
42Y Frame, 5" Body Dia.													
1/20	1075	4	115	0.90	Cradle Base	4 15/16"	2 1/2"	3 3/16" x 3 3/16"	1/2"	10 1/16"	5 3/8"	60°C	**5WJA7**
1/15	1050	4	115	1.4	Cradle Base	4 3/4"	2 1/2"	3 3/16" x 3 3/16"	1/2"	10 1/2"	5 5/32"	60°C	**5WJA8**
1/10	1075	4	115	1.7	Cradle Base	5"	2 1/2"	3 3/16" x 3 3/16"	1/2"	10"	5 3/8"	60°C	**5WJC1**
	1050	4	277	0.70	Ring	4 1/4"	2 1/2"	3 3/16" x 3 3/16"	1/2"	8 1/2"	4 5/8"	60°C	**5WJA9**
	1050	4	115	1.62	Cradle Base	4 1/4"	2 1/2"	3 3/16" x 3 3/16"	3/8"	10 1/2"	4 5/8"	60°C	**5WJC0**
1/8	1075	4	277	0.72	Cradle Base	4 1 1/16"	2 1/2"	3 3/16" x 3 3/16"	1/2"	8 1/2"	5 1/8"	60°C	**5WJC2**
1/6	1625	4	115	2.7	Cradle Base	4 1 1/16"	2 1/2"	3 3/16" x 3 3/16"	1/2"	10"	5 1/8"	60°C	**5WJC3**
48Y Frame, 5 5/8" Body Dia.													
1/4	1625	4	115	3.4	Cradle Base	5"	2 1/2"	3 5/8" x 3 5/8"	1/2"	8 1/2"	3 3/5"	60°C	**5WJC4**
1/2	1075	4	115	6.5	Cradle Base	5 15/32"	2 1/2"	3 5/8" x 3 5/8"	1/2"	8 1/2"	5 15/16"	60°C	**5WJC5**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.


Cradle-Base Mount


Ring Mount

Permanent Split Capacitor Room Air Conditioner Motors

- Enclosure: open air-over, except Nos. 4UB91, 4MB92, and 4MA83 are open dripproof
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve, except No. 4MA83 is ball and No. 4MB88 is ball/sleeve
- Duty: continuous

For room air conditioners, evaporative coolers, remote fan coil units, and other shaft-mounted fan and blower applications. UL Recognized and CSA Certified.

HP	Nameplate RPM	No. of Speeds	Rotation	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.		Capacitor Req.
42Y Frame, 5" Body Dia.																
1/15	1075	4	CCWLE	115	1.2	Cradle Base	4 1/4"	2 1/2 in	1/2"	10 1/2"	4 3/4"	40°C	9474	**4MA85**		2MDV4
1/10	1625	3	CCWLE	115	1.3	Cradle Base	4 1/16"	2 1/2 in	1/2"	8 13/16"	4 3/8"	40°C	DBL4500V1	**4UU16**		Included
	1500	3	CCWLE	208-230	0.70	Cradle Base	4 1/4"	2 1/2 in	1/2"	9 1/4"	4 11/16"	40°C	9652	**4UU18**		Included
	1075	4	CCWLE	115	1.7	Cradle Base	4 1/16"	2 1/2 in	1/2"	8 13/16"	4 3/8"	40°C	DBL6501V1	**4UU17**		Included
	1075	4	CWLE	115	1.7	Cradle Base	4"	—	1/2"	10 1/8"	4 7/16"	40°C	362A	**4MB94**		2MDV4
	1075	4	CCWLE	208-230	0.70	Cradle Base	4 1/16"	2 1/2 in	1/2"	8 13/16"	4 3/8"	40°C	DB6502V1	**4UU19**		Included
1/8	1500	3	CCWLE	115	1.2	Cradle Base	4 1/2"	2 1/2 in	1/2"	9 1/4"	4 15/16"	40°C	945A	**4UU20**		Included
	1075	3	CCWLE	115	2.4	Cradle Base	4 5/16"	2 1/2 in	1/2"	9 1/4"	4 11/16"	40°C	DBL6503	**4UU21**		Included
	1075	4	CCWLE	208-230	1.2	Cradle Base	4"	2 1/2 in	1/2"	10"	4 7/16"	40°C	DB6503	**4MA87**		2MDV4
	1075	3	CCWLE	277	0.83	Ring	4"	2 1/2 in	1/2"	8 1/2"	4 7/16"	40°C	596	**4UB79**		2MDV4
1/6	1625	4	CCWLE	115	2.2	Cradle Base	5"	2 1/2 in	1/2"	9 1/4"	5 7/16"	40°C	9476A	**4UU22**		Included
	1075	3	CCWLE	208-230	1.4	Cradle Base	4 9/16"	2 1/2 in	1/2"	9 1/4"	4 15/16"	40°C	DB6504	**4UU25**		Included
1/5	1625	3	CCWLE	208-230	1.0	Cradle Base	5"	2 1/2 in	1/2"	9 3/16"	4 15/16"	40°C	467A	**4UU24**		Included
	1550	3	CCWLE	208-230	1.8	Ring	—	—	1/2"	6"	4 15/16"	40°C	DCA4522	**4ME15**		Included
	1075	1	CWLE	208-230	1.4	Band	—	—	1/2"	5 3/4"	4 15/16"	40°C	OYK6518	**4MB96**		2MDV4
48Y Frame, 5 5/8" Body Dia.																
1/15	1075	3	CCWLE	115	0.63	Ring	4 3/16"	2 1/2 in	1/2"	5 5/16"	4 5/8"	40°C	RAL10156	**4UB73**	†	2MDV4
1/8	1550	3	CCWLE	115	2.3	Stud	—	2 1/4 in	1/2"	7 1/2"	4 3/8"	40°C	9681	**4UU56**	*	2MDV6
	1075	3	CCWLE	115	2.0	Stud	—	2 1/4 in	1/2"	8 1/4" and 7 1/2"	4 1/4"	60°C	RAL1006	**4MA51**		2MDV4
	1075	3	CCWLE	208-230	0.75	Stud	—	2 1/4 in	1/2"	8 1/4" and 7 1/2"	4 1/4"	40°C	RA1006	**4MA93**	*	2MDV4
1/6	1625	2	CW/CCW	115	2.4	Cradle Base	4 11/16"	2 1/2 in	1/2"	7"	5 1/8"	40°C	DSB1016R	**4UU30**		Included
1/6, 1/10, 1/15	1625	3	CCWLE	115	1.9	Stud	—	2 1/2 in	1/2"	8 1/2" and 7 7/8"	4 3/8"	60°C	9635A	**5DVT6**		2MDV4
1/6	1625	2	CW/CCW	230	1.3	Cradle Base	4 11/16"	2 1/2 in	1/2"	7"	5 1/8"	40°C	DSB1016HR	**4UU31**		Included
	1550	3	CCWLE	115	2.7	Stud	—	2 1/4 in	1/2"	7 1/2" and 8"	4 1/2"	40°C	9685	**4UU60**	*	2MDV7
	1075	3	CCWLE	115	3.1	Cradle Base	4 3/8"	2 1/2 in	1/2"	7"	4 7/8"	40°C	DSB1016	**4UU33**		Included
	1075	3	CCWLE	115	2.2	Stud	—	2 1/4 in	1/2"	8 1/4" and 7 1/2"	4 3/8"	40°C	RAL1016	**4MA53**	*	2MDV4
	1075	3	CCWLE	208-230	0.96	Stud	—	2 1/4 in	1/2"	8 1/4" and 7 1/2"	4 1/4"	40°C	RA1016	**4MA55**		2MDV4
	1075	3	CCWLE	230	1.2	Cradle Base	4 3/8"	2 1/2 in	1/2"	7"	4 7/8"	40°C	DSB1016H	**4UU34**		Included
1/4	1625	2	CCWLE	115	2.4	Cradle Base	4 5/8"	2 1/2 in	1/2"	7"	5 1/8"	40°C	DSB1024	**4UU28**		Included
	1625	3	CCWLE	115	3.4	Stud	—	2 1/4 in	1/2"	7 5/8" and 7 1/2"	4 7/8"	40°C	RAL1024	**4MA99**		2MDV4
	1625	3	CCWLE	208-230	1.9	Stud	—	2 1/4 in	1/2"	7 5/8" and 7 1/2"	4 7/8"	40°C	RA1024	**4MB11**		2MDV4
	1625	2	CCWLE	230	1.3	Cradle Base	4 5/8"	2 1/2 in	1/2"	7"	5 1/8"	40°C	DSB1024H	**4UU29**		Included
	1550	3	CCWLE	115	4.9	Stud	—	2 1/4 in	1/2"	7 1/2"	5"	40°C	9687	**4UU62**		2MDV3
	1550	3	CCWLE	208-230	2.2	Stud	—	2 1/4 in	1/2"	7 1/2"	5"	40°C	9688	**4UU63**		2MDV3
	1075	2	CCWLE	115	4.4	Cradle Base	4 1/2"	2 1/2 in	1/2"	7"	5"	40°C	DSB1026	**4UU26**		Included
	1075	3	CCWLE	115	3.4	Stud	—	2 1/4 in	1/2"	7 1/2" and 7 3/4"	4 3/4"	40°C	RAL1026A	**4MA79**		2MDV4
	1075	3	CCWLE	208-230	1.5	Stud	—	2 1/4 in	1/2"	7 5/8" and 7 1/2"	4 5/8"	60°C	RA1026	**4MA57**		2MDV4
	1075	3	CCWLE	208-230	1.5	Stud	—	—	1/2"	7 7/8" and 8"	4 1/8"	60°C	SA1026	**4MA73**		2MDV4
	1075	2	CCWLE	230	1.9	Cradle Base	4 7/16"	2 1/2 in	1/2"	7"	4 7/8"	40°C	DSB1026H	**4UU27**		Included
	1075	3	CCWLE	277	1.3	Stud	—	2 1/4 in	1/2"	7 7/8" and 7 5/8"	4 1/2"	40°C	7RA1026	**4UB81**		2MDV4
1/3	1625/1350	1	CCWLE	208-240/220	2.4	Cradle Base	—	—	1/2"	6 5/8" and 6"	6 7/8"	40°C	RAB1034S	**4ME31**		Included
	1625	3	CCWLE	208-230	2.0	Stud	—	2 1/4 in	1/2"	7 3/8" and 7 1/2"	5 1/8"	50°C	RA1034	**4MA63**		2MDV4
	1625	3	CCWLE	230	2.0	Cradle Base	5"	2 1/2 in	1/2"	7"	5 1/2"	40°C	DSB1034H	**4UU35**		Included
	1365	3	CCWLE	230	2.7	Stud	—	—	1/2"	7 3/4" and 7 1/2"	4 1/2"	60°C	399A	**2CDU2**		2MDV4
	1100	3	CCWLE	208-230	1.3-1.5	Stud	5"	—	1/2"	5 1/2" and 5 1/4"	4"	60°C	OWR1036	**4MB82**		2MDV4
	1075	3	CCWLE	115	5.0	Stud	—	2 1/4 in	1/2"	7 7/8" and 6 3/4"	5 3/8"	40°C	RAL1036	**4MA59**		2MDV4
	1075	3	CCWLE	208-230	1.9	Cradle Base	5 1/8"	2 1/4 in	1/2"	9" and 6 1/2"	5 5/8"	60°C	RA1036WB	**4MB17**		2MDV4
	1075	3	CCWLE	208-230	1.9	Stud	—	2 1/4 in	1/2"	8 1/8" and 6 1/2"	5 1/8"	60°C	RA1036	**4MA61**		2MDV4
	1075	3	CCWLE	230	3.1	Cradle Base	4 7/8"	2 1/2 in	1/2"	7"	5 3/8"	40°C	DSB1036H	**4UU36**		Included
	1075	3	CCWLE	230	1.9	Stud	—	—	1/2"	4 1/2" & 4"	5"	40°C	RAB1036	**4MB92**		2MDV4
1/2	1625	3	CCWLE	115	6.0	Stud	—	2 1/4 in	1/2"	7 5/8" and 6 3/4"	5 5/8"	40°C	RAL1054	**4MB15**		2MDV4
	1625	3	CCWLE	208-230	3.2	Stud	—	2 1/4 in	1/2"	7 5/8" and 6 3/4"	5 5/8"	40°C	RA1054	**4MA67**	*	2MDV4
	1075	4	CCWLE	115	7.5	Band	—	—	1/2"	7 1/4" and 3 7/8"	6 1/8"	40°C	OCC1056	**4ME25**		2MDV6
	1075	3	CCWLE	115	5.2	Stud	—	2 1/4 in	1/2"	7 3/8" and 6 3/4"	5 7/8"	40°C	RAL1056	**4MA77**	*	2MDV7
	1075	3	CCWLE	208-230	2.7	Cradle Base	5 5/8"	2 1/4 in	1/2"	8 1/8" and 7 1/2"	6 1/8"	60°C	RA1056WB	**4MA81**		2MDV6
	1075	3	CCWLE	208-230	2.7	Stud	—	2 1/4 in	1/2"	7 5/8" and 6 3/4"	5 5/8"	60°C	RA1056	**4MA65**		2MDV6
	1075	2	CCWLE	230	4.0	Cradle Base	5 7/16"	2 1/2 in	1/2"	7"	5 7/8"	40°C	DSB1056H	**4UU32**		Included
3/4	1625	3	CCWLE	208-230	3.8	Stud	—	2 1/4 in	1/2"	7 1/8" and 6 3/4"	6 1/8"	40°C	RA1074	**4MA71**		2MDV6
	1075	3	CCWLE	208-230	3.6	Stud	—	2 1/4 in	1/2"	7 3/8" and 6 3/4"	5 7/8"	40°C	RA1076	**4MA69**		2MDV6
56Y Frame, 6 1/2" Body Dia.																
3/4	1075	1	CCWLE	200-230	4.4-4.2	Cradle Base	—	2 1/2 in	5/8"	6 3/4"	10 3/8"	60°C	RA1176WB	**4MA83**		2MDW3
	1075	1	CCWLE	208-230	5.4-6.0	Cradle Base	—	—	5/8"	7 1/2"	9 1/2"	40°C	C024	**4MB88**		2MDV7

** 60/50 Hz. † Capacitor selection: single blower wheel/2MDV2, double blower wheel/2MDV3, triple blower wheel/2MDV4.*


Band Mount


Cradle Base Mount


Ring Mount


Stud Mount


T-Flex Mount

Century®

Shaded Pole Direct-Drive Blower/Fan Motors

- 42Y frame (5" body dia.)
- Enclosure: open air-over, except No. 4UU91 is totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve
- Max. ambient temp.: 40°C
- Duty: continuous air-over

These motors are suitable for unit heaters, condensers, furnace blowers, air circulators, fans, and a wide range of other shaft-mounted fan and blower equipment. No. 4UU91 has a 5.0 cu.-in. junction box. Nos. 4KA23, 4KA20, and 4KA22 are used in Coleman furnaces. No. 4KA49 has a 2½" ring dia. and is for Lear-Siegler furnaces. All models are UL Recognized and CSA Certified.

Mounting	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Stud Pattern	Shaft Dia.	Shaft Length	Mfr. Model	Item No.	
1-Speed												
Band	1/12	1050	CCWLE	115	3.1	—	—	½"	2½"	BL6409	**4KA23**	
	1/10	1050	CCWLE	115	3.9	—	—	½"	2½"	BL6408	**4KA20**	
	1/6	1000	CCWLE	115	7.8	—	—	½"	2½"	BL6407	**4KA22**	
Cradle Base	1/15	1000	CCWLE	115	3.2	4 1/16"	—	⅜"	3¼"	9694	**4UU96**	
	1/10	1050	CWSE	115/208-230	4.0/2.0-2.0	4 9/16"	2½" x 2½"	⅜"	2¼"	RF6402	**4UU74**	
	1/10	1050	CCWLE	115/208-230	4.0/2.0-2.0	4 9/16"	2½" x 2½"	⅜"	2¼"	RF6403	**4UU76**	
	1/10	1550	CWLE	115/208-230	4.0/2.0-2.0	4 9/16"	2½" x 2½"	⅜"	2¼"	RF4400	**4UU75**	
	1/10	1550	CCWLE	115/208-230	4.0/2.0-2.0	4 9/16"	2½" x 2½"	⅜"	2¼"	RF4401	**4UU77**	
	1/10	1550	CWLE	230	2.9	4 9/16"	—	½"	2⅞"	9638	**4MA15**	†
	1/6	1550	CWLE	115	6.4	4 9/16"	—	½"	2⅞"	9640	**4MA23**	†
	1/6	1550	CCWSE	208-230	3.2	4 9/16"	—	½"	2⅞"	593	**4MA13**	†
Ring	1/15	1550	CWSE	115/208-230	2.8/1.4	5 1/16"	2½" x 2½"	⅜"	2¾"	612A	**4UU73**	
	1/15	1550	CCWSE	115/208-230	2.8/1.4-1.4	5 1/16"	2½" x 2½"	⅜"	2¾"	613A	**4UU78**	
	1/8	1050	CCWLE	115	5.2	4 13/16"	2 5/16" x 4"	½"	4"	9706	**4VU34**	
	1/8	1050	CCWLE	115	5.2	4 1/16"	2¼" x 3⅞"	½"	5"	BLR6403	**4UU99**	
	1/8	1050	CWSE	115	4.2	4¼"	—	½"	2⅜"	9646	**4KA49**	
	1/6	1050	CCWLE	115	5.5	4 9/16"	2¼" x 3⅞"	½"	3"	BLR6402	**4UU97**	
	1/6	1050	CCWLE	115	7.0	4 9/16"	2 5/16" x 4"	½"	3¼"	345A	**4VU35**	
	1/5	1050	CCWLE	115	6.7	4 9/16"	2 5/16" x 4"	½"	3¼"	9690	**4UU89**	
	¼	1050	CCWLE	115	9.4	5 1/16"	2¼" x 3⅞"	½"	3 15/16"	BLR640S	**4UU81**	
Stud	1/15	1050	CCWLE	115	2.8	—	2¼" x 3⅞"	⅜"	1⅞"	BLR6407	**4UU94**	*
	1/15	1050	CCWLE	115	3.3	—	2¼" x 3⅞"	½"	2½"	U6433	**4UU91**	
T-Flex	1/5	1050	CCWLE	115	6.5	—	—	½"	3½"	ONR6026	**4MB32**	
	¼	1050	CCWLE	115	8.9	—	—	½"	4¼"	BL6531	**4MB34**	
2-Speed												
Stud	1/15	1050	CCWLE	115	3.48	—	2¼" x 3⅞"	⅜"	1⅞"	BLR6405	**4UU92**	*
3-Speed												
Ring	⅛	1050	CCWLE	115	5.1	4 13/16"	2 5/16" x 4"	½"	3¼"	9703	**4UU83**	
	1/6	1050	CCWLE	115	6.3	4 9/16"	2¼" x 3⅞"	½"	3 15/16"	9701	**4UU79**	
	1/5	1050	CCWLE	115	6.8	5 9/16"	2 5/16" x 4"	½"	5"	9695	**4UY10**	
	¼	1050	CCWLE	115	8.2	5 1/16"	2¼" x 3⅞"	½"	3 15/16"	BLR6404	**4UU80**	
T-Flex	¼	1050	CCWLE	115	8.2	—	—	½"	4⅜"	BL6534	**4MB48**	

Mounting	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Bolt Circle Dia.	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
1-Speed, 3 Mounting Studs											
Ring	⅛	1050	CCWLE	115	5.2	4 1/16"	4 7/16"	½"	5"	BL6410	**4KA21**
	⅛	1050	CCWLE	208-230	2.6	4 1/16"	4 7/16"	½"	5"	B6411	**4KA45**
	⅕	1050	CCWLE	115	6.0	4 1/16"	4 7/16"	½"	5"	BL6413	**4KA46**
3-Speed, 3 Mounting Studs											
Ring	⅕	1050	CCWLE	208-230	3.2	4 9/16"	4 7/16"	½"	5"	B6415	**4KA42**
	⅕	1050	CWSE	208-230	3.4	4 9/16"	4⅝"	½"	3⅜"	429	**4KA48**
4-Speed, 3 Mounting Studs											
Ring	⅕	1050	CCWLE	115	7.1	4 9/16"	4 7/16"	½"	2⅛"	BL6416	**4KA40**
	⅕	1050	CWSE	115	7.9	4 9/16"	4⅝"	½"	3⅜"	559	**4KA47**

** Studs located on opposite shaft end of motor. † Include BX connector.*

Century®

ECM Fan Coil Motor

- Speeds: 3
- 42 frame (5" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Mounting: cradle base
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

For use in air conditioners, fan coil units, and blower applications. UL Recognized.



HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1/10	1100	CWLE	115	1.6	½"	9 5/16"	3 13/16"	CS89	**10C902**


No. 6TWK6

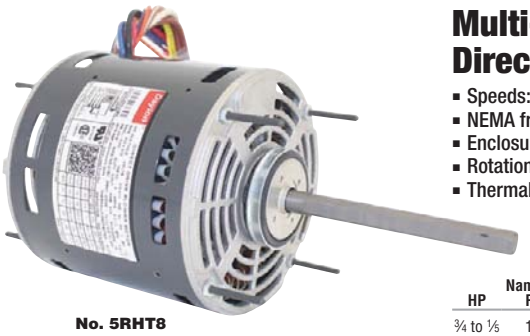
Century®

MasterFit® Pro Direct-Drive Blower Motors

- Speeds: 4
- NEMA frame: 48Y (5¾" body dia.)
- Enclosure: open
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: ring/stud/band/hole
- Duty: continuous
- Shaft orientation: horizontal
- Capacitor included

Replace Emerson, Fasco, Genteq, Marathon and Protech fan and blower motors in residential and light commercial HVAC systems. Motors have predrilled holes for Rheem mounting. Include capacitor and reversing plug. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
½ to ⅛	1075	115	7.0	Sleeve	½"	4½"	5⅞"	40°C	FDL6001A	**6TWK6**
½ to ⅛	1075	208-230	3.9	Sleeve	½"	4½"	5⅞"	40°C	FD6000A	**6TWK7**
¾ to ⅓	1075	115	9.1	Ball	½"	4½"	5¾"	40°C	FDL6002A	**6TWK8**
¾ to ⅓	1075	208-230	4.0	Ball	½"	4½"	5 13/16"	40°C	FD6001A	**6TWK9**


No. 5RHT8

Dayton

Multi-HP Permanent Split Capacitor Direct-Drive/Fan Multi-Speed Motors

- Speeds: 4
- NEMA frame: 48YZ (5⅝" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: ring/stud/band
- Duty: continuous
- Shaft orientation: all-angle
- Refer to the Motor Nameplate for correct capacitor value

Energy-efficient motors operate at multiple horsepowers, reducing inventory needs and expense. Feature quick-change reversing plug. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.	Capacitor Selection
¾ to ⅓	1075	115	8.7-2.4	Ball	½"	5"	5⅞"	60°C	**5RHT8**	2MDV6 for ⅛ to ⅓ HP Setup, 2MDV7 for ½ & ¾ HP Setup
¾ to ⅓	1075	208-230	4.1-1.7	Ball	½"	6"	6¼"	60°C	**5RHT9**	2MDV6 for ⅛ to ⅓ HP Setup, 2MDV7 for ½ & ¾ HP Setup
⅓ to ⅛	825	208-230	2.2-1.0	Ball	½"	5"	6⅛"	60°C	**5RHU0**	2MDV6
½ to ⅓	825	208-230	3.9-1.4	Ball	½"	6"	6⅝"	60°C	**5RHU1**	2MDV7


No. 20JP30

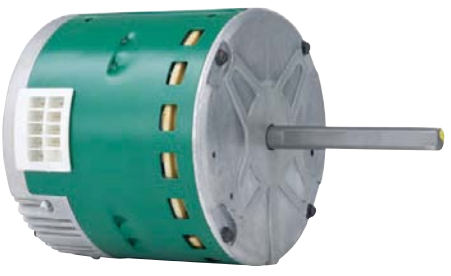
genteq

ECM Evergreen® EM Direct Drive Blower Motors

- Speeds: 5
- NEMA frame: 48 (5¾" body dia.)
- Enclosure: open
- Rotation: CW/CCW
- Thermal protection: electronic
- Service factor: 1.0
- Insulation: Class B
- Mounting: band
- Duty: continuous
- Shaft orientation: horizontal
- Replacement for X–13 ECM motors

Replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor. Maintain ECM-level efficiency up to 80%. Features Soft Start and Off Ramp for quiet operation. UL and CSA recognized.

HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
⅓	1200	115	4.8	Ball	½"	4 15/16"	5¼"	40°C	6103E	**20JP27**
⅓	1200	208-230	2.8	Ball	½"	4 15/16"	5¼"	40°C	6203E	**20JP28**
½	1200	115	6.8	Ball	½"	4 15/16"	5¾"	40°C	6105E	**20JP29**
½	1200	208-230	4.1	Ball	½"	4 15/16"	5¼"	40°C	6205E	**20JP30**
¾	1200	115	8.4	Ball	½"	4 15/16"	6½"	40°C	6107E	**20JP31**
¾	1200	208-230	6.0	Ball	½"	4 15/16"	6½"	40°C	6207E	**20JP32**
1	1200	115	10.9	Ball	½"	4 15/16"	7½"	40°C	6110E	**20JP33**
1	1200	208-230	7.6	Ball	½"	4 15/16"	7½"	40°C	6210E	**20JP34**


No. 12V752

genteq

ECM Evergreen® CM Brushless DC Motors

- Speeds: 5
- NEMA frame: 48 (5⅔" body dia.)
- Enclosure: open air-over
- Rotation: CCW
- Thermal protection: electronic
- Service factor: 1.0
- Insulation: Class B
- Mounting: band
- Duty: continuous
- Shaft orientation: horizontal
- Replacement for X–13 ECM motors

More energy efficient than most PSC motors, and can be used in indoor furnace and air handler applications. Compatible with most building automation systems. UL Recognized and CSA Certified.

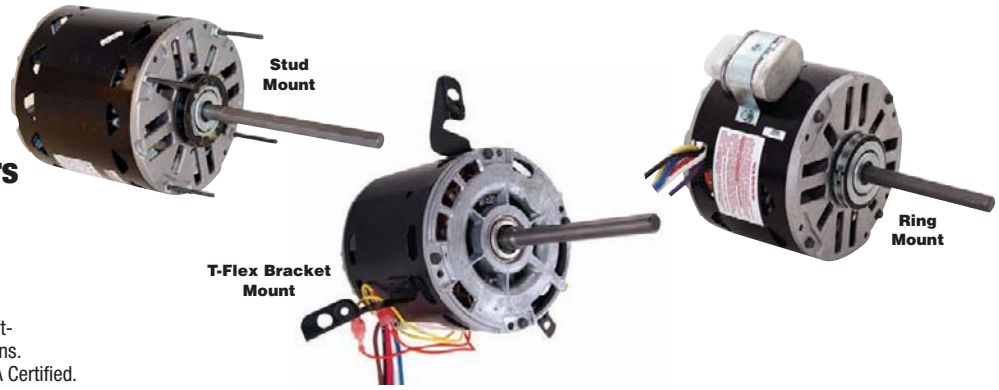
HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
⅓	1050	208-230/277	2.6	Ball	½"	3 15/16"	5¼"	55°C	6703	**12V752**
½	1050	208-230/277	3.6	Ball	½"	3 15/16"	5¾"	55°C	6705	**12V753**
¾	1050	208-230/277	4.9	Ball	½"	3 15/16"	6½"	45°C	6707	**12V754**

Century®
genteq

PSC Direct-Drive Blower/Fan Motors

- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- ½" shaft dia.
- Duty: continuous

For furnace blowers and other shaft-mounted fan and blower applications. Motors are UL Recognized and CSA Certified.



HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ins. Class	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	Item No.		Capacitor Req.
42Y Frame, 5" Body Dia., Sleeve Bearings																
1 Speed																
1/8	1075	CW/CCW	115	2.7	B	Stud	4 5/16"	2 1/2 in	3 1/4 in x 3 1/4 in	6"	4 11/16"	40°C	Century	**4MA96**		2MDV4
3 Speed																
1/10	1625	CW/CCW	115	2.1	B	Stud	4 13/16"	2 1/2 in	3 1/4 in x 3 1/4 in	5 1/4"	5 3/16"	40°C	Century	**4UY12**		2MDV4
	1075	CW/CCW	115	1.6	B	Ring	4 13/16"	2 1/2 in	2 5/16 in x 4 in	5 1/4"	5 3/16"	40°C	Century	**4UY13**		2MDV4
1/8	1075	CW/CCW	115	2.5	B	Stud	4 5/16"	2 1/2 in	3 1/4 in x 3 1/4 in	6"	4 11/16"	40°C	Century	**4MB16**		2MDV4
1/6	1625	CW/CCW	115	1.9	B	Ring	5 5/16"	2 1/2 in	3 1/4 in x 3 1/4 in	5 1/4"	5 11/16"	40°C	Century	**4UY18**		2MDV4
	1075	CW/CCW	115	3.1	B	Ring	5 5/16"	2 1/2 in	2 5/16 in x 4 in	5 1/4"	5 11/16"	40°C	Century	**4UY19**		2MDV4
1/5	1075	CW/CCW	115	3.2	B	Stud	4 9/16"	2 1/2 in	3 1/8 in x 3 1/8 in	5"	4 15/16"	40°C	Century	**4MB18**		2MDV6
	1075	CW/CCW	230	1.3	B	Stud	4 9/16"	2 1/2 in	3 1/8 in x 3 1/8 in	5"	4 15/16"	40°C	Century	**4MB20**		2MDV6
	1075	CW/CCW	230	1.3	B	Ring	4 9/16"	2 1/2 in	3 1/8 in x 3 1/8 in	5"	4 15/16"	40°C	Century	**4KA44**		2MDV6
1/4	1625	CW/CCW	115	4.0	B	Ring	5 13/16"	2 1/2 in	3 1/4 in x 3 1/4 in	5 1/4"	6 3/16"	40°C	Century	**4UY20**		2MDV6
	1075	CW/CCW	115	4.7	B	Stud	4 13/16"	2 1/4 in	3 1/8 in x 3 1/8 in	4 1/8"	5 3/16"	40°C	Century	**4MB22**		2MDV4
	1075	CW/CCW	115	4.8	B	Ring	5 13/16"	2 1/2 in	2 5/16 in x 4 in	5 1/4"	6 3/16"	40°C	Century	**4UY21**		2MDV6
	1075	CW/CCW	208-230	2.0	B	Ring	5 5/16"	2 1/2 in	2 5/16 in x 4 in	5 1/4"	5 11/16"	40°C	Century	**4UY23**		2MDV4
	1075	CW/CCW	230	2.0	B	Stud	4 13/16"	2 1/4 in	3 1/8 in x 3 1/8 in	4 1/8"	5 3/16"	40°C	Century	**4MB24**		2MDV4
1/3	1075	CW/CCW	115	6.3	B	Stud	4 13/16"	2 1/4 in	3 1/8 in x 3 1/8 in	4 1/8"	5 3/16"	40°C	Century	**4MB26**		2MDV9
48 Frame, 5 5/8" Body Dia., Ball Bearings																
1/4	1075	CW/CCW	115	3.6	B	Stud	5 1/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 5/16"	40°C	Genteq	**13G414**		Included
	1075	CW/CCW	208-230	1.7	B	Stud	5 1/8"	2 1/2 in	3 5/8 in x 3 5/8 in	6 1/2"	5 5/16"	40°C	Genteq	**13G418**		Included
1/3	1075	CW/CCW	460	1.1	B	Stud	5 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 13/16"	40°C	Genteq	**13G405**	*	Included
	1075	CW/CCW	115	4.7	B	Stud	5 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 13/16"	40°C	Genteq	**13G415**		Included
	1075	CW/CCW	208-230	2.5	B	Stud	5 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 13/16"	40°C	Genteq	**13G419**	*	Included
1/2	1075	CW/CCW	460	1.6	B	Stud	5 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 5/16"	40°C	Genteq	**13G406**	*	Included
	1075	CW/CCW	115	8.6	B	Stud	6 3/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 9/16"	40°C	Genteq	**13G416**		Included
	1075	CW/CCW	208-230	3.8	B	Stud	6 1/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 9/16"	40°C	Genteq	**13G420**	*	Included
3/4	1075	CW/CCW	115	10.0	B	Stud	6 3/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 9/16"	40°C	Genteq	**13G417**		Included
4 Speed																
1/6	1075	CW/CCW	277/230	0.78	B	Stud	4 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	4 13/16"	40°C	Genteq	**13G399**	*	Included
1/4	1075	CW/CCW	277	1.1	B	Stud	5 1/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 5/16"	40°C	Genteq	**13G401**	*	Included
1/3	1075	CW/CCW	277	0.87	B	Stud	5 5/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	5 13/16"	40°C	Genteq	**13G402**	*	Included
1/2	1075	CW/CCW	277	3.1	B	Stud	6 1/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 5/16"	40°C	Genteq	**13G403**	*	Included
3/4	1075	CW/CCW	277	3.6	B	Stud	6 3/8"	2 1/4 in	3 5/8 in x 3 5/8 in	6 1/2"	6 13/16"	40°C	Genteq	**13G404**	*	Included
48Y Frame, 5 5/8" Body Dia., Sleeve Bearings																
1 Speed																
1/8	1550	CCWLE	115/208-230	2.7/1.2-1.4	B	Ring	4 11/16"	2 1/4 in	—	4"	5 1/8"	40°C	Century	**4UU84**		Included
	1050	CCWLE	115	2.4	A	Ring	4 15/16"	2 1/2 in	3 5/8 in x 3 5/8 in	4 15/16"	5 3/8"	40°C	Century	**4UU71**		Included
1/6	1550	CCWLE	115/208-230	2.8/1.4-1.4	B	Ring	4 7/16"	2 1/4 in	—	4"	4 7/8"	40°C	Century	**4UU66**		2MDV7
	1075	CW/CCW	208-230	0.95	B	Ring	4 1/4"	2 1/4 in	3 5/8 in x 3 5/8 in	5"	4 3/4"	60°C	Century	**4HCH4**		2MDV4
	1050	CCWLE	115/208-230	3.3/1.5-1.7	B	Ring	4 9/16"	2 1/2 in	3 5/8 in x 3 5/8 in	3 3/8"	5 5/16"	40°C	Century	**2CDU1**		2MDV4
1/4	1550	CCWLE	115/208-230	4.9/2.5-2.5	B	Ring	5 1/16"	2 1/4 in	—	4"	5 1/2"	40°C	Century	**4UU68**		2MDV3
	1075	CCWLE	115	3.6	B	Ring	4 11/16"	2 1/4 in	2 5/16 in x 4 7/16 in	2 1/2"	5 1/8"	40°C	Century	**4UU86**		Included
	1075	CW/CCW	208-230	1.5	B	Ring	4 9/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5"	5"	60°C	Century	**5ELK6**		2MDV4
3 Speed																
1/6	1075	CW/CCW	115	3.2	B	Ring	4 7/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	4 7/8"	50°C	Century	**4MB30**		2MDV6
	1075	CW/CCW	115	2.7	B	T-Flex	—	—	—	5 1/2"	4 1/4"	40°C	Century	**4MB50**		2MDV4
1/4	1625	CW/CCW	115	3.0	A	Stud	4 15/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 3/8"	40°C	Century	**4MA80**		2MDV7
	1625	CW/CCW	208-230	1.8	A	Stud	4 15/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 3/8"	40°C	Century	**4MA82**		2MDV4
	1075	CW/CCW	208-230	1.6	B	T-Flex	—	—	—	6"	4 1/8"	50°C	Century	**4MB52**	*	2MDV4
1/3	1625	CW/CCW	115	4.0	A	Stud	5 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 5/8"	40°C	Century	**4MA84**		2MDV9
	1625	CW/CCW	208-230	2.0	A	Stud	5 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 5/8"	50°C	Century	**4MA86**		2MDV4
	1075	CW/CCW	115	4.2	A	Stud	5 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 5/8"	50°C	Century	**4MA66**		2MDV6
	1075	CW/CCW	208-230	2.4	B	T-Flex	—	—	—	6"	4 3/8"	50°C	Century	**4MB54**	*	2MDV6
	1075	CW/CCW	208-230	3.2	A	Stud	5 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	5 5/8"	50°C	Century	**4MA68**		2MDV4
	1075	CW/CCW	115	4.9	B	Ring	5"	2 1/4 in	2 5/16 in x 4 7/16 in	5"	5 1/2"	40°C	Century	**4UU88**		2MDV6
1/2	1625	CW/CCW	115	7.6	A	Stud	5 11/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 1/8"	40°C	Century	**4MA88**		2MDV9
	1625	CW/CCW	208-230	2.8	A	Stud	5 11/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 1/8"	40°C	Century	**4MA90**		2MDV6
	1075	CW/CCW	115	5.6	A	Stud	5 11/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 1/8"	50°C	Century	**4MA70**		2MDV7
	1075	CW/CCW	208-230	3.3	B	T-Flex	—	—	—	6"	4 7/8"	50°C	Century	**4MB56**		2MDV7
	1075	CW/CCW	208-230	2.7	A	Stud	5 11/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 7/8"	6 1/8"	50°C	Century	**4MA72**		2MDV6
3/4	1625	CW/CCW	115	8.5	A	Stud	6 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 5/8"	40°C	Century	**4MA92**		2MDV9
	1625	CW/CCW	208-230	4.0	A	Stud	6 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 5/8"	40°C	Century	**4MA94**		2MDV6
	1075	CW/CCW	115	9.8	B	Stud	6 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 5/8"	50°C	Century	**4MA74**		2MDV9
	1075	CW/CCW	208-230	5.0	B	T-Flex	—	—	—	6"	5 3/8"	50°C	Century	**4MB58**		2MDV7
	1075	CW/CCW	208-230	4.9	B	Stud	5 15/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 3/8"	50°C	Century	**4MA76**		2MDV7
4 Speed																
1/4	1075	CW/CCW	115	3.9	B	T-Flex	—	—	3 5/8 in x 3 5/8 in	5 1/2"	5 3/16"	50°C	Century	**2CDT9**		2MDV4
1/3	1075	CW/CCW	115	5.6	B	T-Flex	—	—	—	5 1/2"	4 13/16"	40°C	Century	**2FGP7**		2MDV4
1/2	1075	CW/CCW	115	8.9	B	T-Flex	—	—	3 5/8 in x 3 5/8 in	5 1/2"	5 1/2"	40°C	Century	**2FGR1**		2MDV6
3/4	1075	CW/CCW	115	10.9	A	T-Flex	—	—	—	6"	5 3/8"	50°C	Century	**4MB40**	*	2MDV9
5 Speed																
3/4	1075	CW/CCW	115	8.0	B	Stud	6 3/16"	2 1/4 in	3 5/8 in x 3 5/8 in	5 15/16"	6 5/8"	40°C	Century	**4MA78**		2MDW6

** 60/50 Hz.*

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

PSC Direct-Drive Blower/Fan Motors

- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: ring/stud/band
- Bearings: sleeve, except No. 3LU87, 3LU89, and 3LU90 are ball
- Body dia.: 5⅝"
- Duty: continuous
- Ring dia.: 2¼"
- Stud pattern: 3⅜" x 3⅜"

Motors have quick-reversing leads. Energy-efficient models feature a typical energy savings of 10% over standard-efficiency motors. Dayton® motors include split ring adapter. Capacitor mounting hardware sold separately on Grainger.com®. Motors are UL Recognized and CSA Certified.



No. 4M098



T-Flex Bracket
No. 2MEY7
(Included w/Nos. 7E647–7E682)



No. 3LU92

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	Mfr. Model	Item No.	Capacitor Req.
Standard Efficient													
2 Speed													
¼	1075	48Y	115	3.5	4 11/16"	½"	4"	5⅛"	40°C	Century	DL001	**4KA24**	2MDV4
	1075	48Y	208-230	1.8	4 11/16"	½"	4"	5⅛"	40°C	Century	D0002	**4KA25**	2MDV4
⅓	1075	48Y	115	4.9	4 15/16"	½"	4"	5⅜"	40°C	Century	DL003	**4KA26**	2MDV6
	1075	48Y	208-230	2.6	4 15/16"	½"	4"	5⅜"	40°C	Century	D0004	**4KA27**	2MDV4
½	1075	48Y	115	6.5	5 7/16"	½"	4"	5⅞"	40°C	Century	DL005	**4KA28**	2MDV7
	1075	48Y	208-230	3.2	5 7/16"	½"	4"	5⅞"	40°C	Century	D0006	**4KA29**	2MDV6
¾	1075	48Y	115	8.9	6 3/16"	½"	4"	6⅝"	50°C	Century	DL007	**4KA30**	2MDV9
	1075	48Y	208-230	4.0	6 3/16"	½"	4"	6⅝"	40°C	Century	D0008	**4KA31**	2MDV7

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	MOTOR ONLY Item No.	MOTOR W/ NO. 2MEY7* T-Flex Bracket Item No.	Capacitor Req.
Standard Efficient													
3 Speed													
¼	1075	48YZ	115	4.2	4¾"	½"	4"	5 3/16"	40°C	Dayton	**4M096**	**7E647**	2MDV4
	1075	48YZ	208-230	1.5	5¼"	½"	4"	5 1/16"	40°C	Dayton	**4M097**	**7E648**	2MDV4
⅓	1075	48YZ	115	5.0	5¼"	½"	4"	5 1/16"	40°C	Dayton	**4M098**	**7E649**	2MDV4
	1075	48YZ	208-230	2.4-2.4	5¼"	½"	4"	5 1/16"	40°C	Dayton	**4M099**	**7E650**	2MDV4
½	1075	48YZ	115	9.0	6"	½"	4"	6 7/16"	40°C	Dayton	**4M100**	**7E651**	2MDV4
	1075	48YZ	208-230	4.0-4.0	5¾"	½"	4"	6 3/16"	40°C	Dayton	**4M101**	**7E652**	2MDV4
¾	1075	48YZ	115	11.5	6"	½"	4"	6 7/16"	40°C	Dayton	**4M183**	**7E653**	2MDV9
	1075	48YZ	208-230	4.6	6"	½"	4"	6 7/16"	40°C	Dayton	**4M184**	**7E654**	2MDV7
Energy Efficient													
⅙	1075	48YZ	277	0.9	4¾"	½"	6"	5 3/16"	40°C	Dayton	**6GC93**	**7E657**	2MDV3
	1625	48YZ	115	3.4	5"	½"	6"	5 7/16"	40°C	Dayton	**3LU73**	**7E658**	2MDV7
¼	1625	48YZ	208-230	1.75-1.75	5"	½"	6"	5 7/16"	40°C	Dayton	**3LU74**	**7E659**	2MDV4
	1075	48YZ	277	2.0	5"	½"	6"	5 7/16"	40°C	Dayton	**3M712**	**7E662**	2MDV3
⅓	1625	48YZ	115	5.1	5¼"	½"	6"	5 1/16"	40°C	Dayton	**3LU77**	**7E663**	2MDV9
	1625	48YZ	208-230	1.9-2.2	5¾"	½"	6"	6⅛"	40°C	Dayton	**3LU78**	**7E664**	2MDV6
	1075	48YZ	277	2.2	5¾"	½"	6"	6 3/16"	40°C	Dayton	**3M713**	**7E667**	2MDV3
½	1625	48YZ	115	5.5	5¾"	½"	6"	6 3/16"	40°C	Dayton	**3LU81**	**7E668**	2MDV9
	1625	48YZ	208-230	4.0-4.5	5¾"	½"	6"	6 3/16"	40°C	Dayton	**3LU82**	**7E669**	2MDV6
	1075	48YZ	277	2.6	6"	½"	6"	6 13/32"	40°C	Dayton	**3M714**	**7E672**	2MDV5
¾	1650	48YZ	115	8.8	6¼"	½"	6"	6 21/32"	40°C	Dayton	—	**7E673**	2MDV9
	1625	48YZ	115	8.8	6¼"	½"	6"	6 21/32"	40°C	Dayton	**3LU85**	—	2MDV9
	1625	48YZ	208-230	4.4-4.2	5 15/16"	½"	6"	6 7/16"	40°C	Dayton	**3LU86**	**7E674**	2MDV7
	1075	48YZ	277	4.1	6¾"	½"	6"	7 5/32"	40°C	Dayton	**6GC94**	**7E677**	2MDV9
1	1625	48YZ	115	10	6¾"	½"	6"	7 5/32"	40°C	Dayton	**3LU89**	**7E678**	2MDW3
	1625	48YZ	208-230	6.0-6.8	7"	½"	6"	7 7/16"	40°C	Dayton	**3LU90**	**7E679**	2MDW2
	1075	48YZ	277	6.9	6 15/16"	½"	6¼"	7 11/16"	40°C	Dayton	**6GC95**	**7E682**	2MDW4
4 Speed													
⅙	1075	48YZ	115	2.7	4¾"	½"	6"	5 3/16"	40°C	Dayton	**3LU71**	**7E655**	2MDV3
	1075	48YZ	208-230	1.13-1.2	5"	½"	5 13/16"	5 13/32"	40°C	Dayton	**3LU72**	**7E656**	2MDV4
¼	1075	48YZ	115	3.8	5 5/32"	½"	6"	5 9/16"	40°C	Dayton	**3LU75**	**7E660**	2MDV4
	1075	48YZ	208-230	1.8-1.7	5"	½"	6"	5 7/16"	40°C	Dayton	**3LU76**	**7E661**	2MDV4
⅓	1075	48YZ	115	4.6	5½"	½"	6"	5 15/16"	40°C	Dayton	**3LU79**	**7E665**	2MDV6
	1075	48YZ	208-230	2.9-3.14	5¾"	½"	5 13/16"	6 5/32"	40°C	Dayton	**3LU80**	**7E666**	2MDV5
½	1075	48YZ	115	7.1	5¾"	½"	6"	6 5/32"	40°C	Dayton	**3LU83**	**7E670**	2MDV6
	1075	48YZ	208-230	3.3-3.1	6"	½"	6"	6 7/16"	40°C	Dayton	**3LU84**	**7E671**	2MDV6
¾	1075	48YZ	115	10.6	6½"	½"	6"	6 15/16"	40°C	Dayton	**3LU87**	**7E675**	2MDV9
	1075	48YZ	208-230	6.1-5.8	6½"	½"	6"	6 15/16"	40°C	Dayton	**3LU88**	**7E676**	2MDV7
1	1075	48YZ	115	15.8	7"	½"	6"	7 7/16"	40°C	Dayton	**3LU91**	**7E680**	2MDW2
	1075	48YZ	208-230	5.8-6.8	7"	½"	6"	7 7/16"	40°C	Dayton	**3LU92**	**7E681**	2MDW2

For details on Bracket No. 2MEY7 go to Grainger.com®.

REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

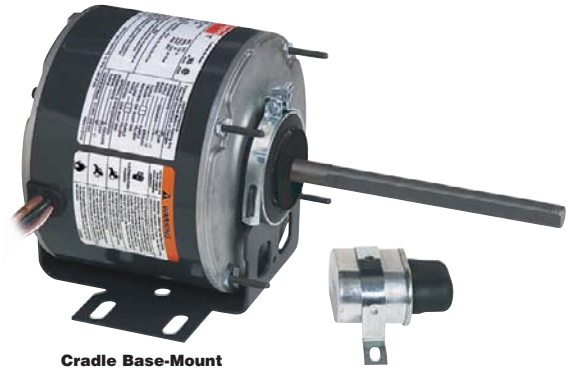
> Sign in or register on **Grainger.com®** today!



Find Dual-Run Capacitors on page 66.



Stud-Mount
No. 4M205



Cradle Base-Mount
No. 3M990

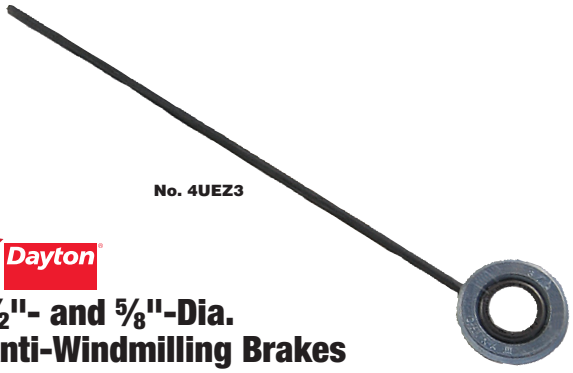
Century® Dayton®

PSC Stud- and Cradle-Mount Condenser Fan Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Body dia.: 48 frame, 5⅝"; 56 frame, 6½"
- Max. ambient temp.: 60°C
- Duty: continuous
- Stud pattern: 3⅝" x 3⅝", except No. 4MB79 is 4⅛" x 4⅛"

Commercial-duty motors feature higher starting torque, cooler running temperature, and reversing plug. Open air-over motors have totally enclosed shaft endshield and shell (except 460V motors). Opposite endshield is open. Shaft up/down motors have both endshields totally enclosed with removable drain plugs. Can be mounted vertically or horizontally. Shafts are double flat (90° apart). Dayton® motors feature slinger on shaft. All models are suitable for outdoor air conditioner condensers and refrigeration condensers. Two-speed models can be used on heat pumps. All motors are UL Recognized and CSA Certified.

HP	Nameplate RPM	No. of Speeds	Frame	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Brand	Mfr. Model	Item No.	Capacitor Req.
Stud-Mount, Open Air-Over, Shaft Horizontal													
¼	1625	2	48Y	460	0.90	Ball	½"	6"	5⅞"	Century	BDH1024	**4MB91**	Included
⅓	1075	2	48Y	460	1.2	Ball	½"	6"	6"	Century	BDH1036	**4MB93**	Included
½	1625	2	48Y	460	1.4	Ball	½"	6"	6¼"	Century	BDH1054	**4MB95**	Included
¾	1075	2	48Y	460	2.2	Ball	½"	6"	6⅜"	Century	BDH1076	**4MB97**	Included
Stud-Mount, Open Air-Over, Shaft Up													
⅛	1075	2	48Y	208-230	0.80-0.90	Sleeve	½"	5⅝"	5³⁄₁₆"	Century	FS1016	**4MB49**	2MDV4
⅓	825	1	48Y	115	4.8	Ball	½"	6"	5¾"	Century	FL1038	**4MB71**	2MDV6
1	1075	1	56Y	200-230/460	4.2-4.8/2.4	Ball	⅝"	6"	10¹³⁄₁₆"	Century	C770	**4MB79**	2MDW3
Stud-Mount, Totally Enclosed Air-Over, Shaft Up/Down													
1/10	825	1	48YZ	208-230	1.0	Ball	½"	6"	4⅜"	Dayton	—	**4M223**	2MDV2
⅛	825	1	48YZ	208-230	0.95-0.80	Ball	½"	6"	4¹⁵⁄₁₆"	Dayton	—	**4M224**	2MDV4
⅙	1075	1	48YZ	208-230	1.3	Ball	½"	6"	4-6/7"	Dayton	—	**4M261**	2MDV2
	1075	2	48YZ	208-230	1.0-1.0	Ball	½"	6"	4¹⁵⁄₁₆"	Dayton	—	**3M839**	2MDV4
	825	1	48YZ	208-230	1.0-1.1	Ball	½"	6"	4¹⁵⁄₁₆"	Dayton	—	**4M225**	2MDV4
	825	2	48YZ	208-230	0.8-0.8	Ball	½"	6"	4¹³⁄₁₆"	Dayton	—	**3LU93**	2MDV4
¼	1075	1	48YZ	208-230	1.5-1.4	Ball	½"	6¹⁄₁₆"	5⅞"	Dayton	—	**4M205**	2MDV4
	1075	1	48YZ	460	0.8	Ball	½"	6"	5⅞"	Dayton	—	**3LU94**	2MDV6
	1075	2	48YZ	208-230	2.0-1.9	Ball	½"	6"	5⅛"	Dayton	—	**4M060**	2MDV4
	825	1	48YZ	208-230	2.0-2.0	Ball	½"	6"	5⅛"	Dayton	—	**4M226**	2MDV4
	825	2	48YZ	208-230	1.4-1.3	Ball	½"	6"	5¹⁄₁₆"	Dayton	—	**3LU95**	2MDV6
⅓	1075	1	48YZ	208-230	2.0-2.0	Ball	½"	6"	6⅜"	Dayton	—	**4M206**	2MDV6
	1075	1	48YZ	460	1.0	Ball	½"	6"	6⅜"	Dayton	—	**3LU96**	2MDV6
	1075	2	48YZ	208-230	2.1-2.3	Ball	½"	6"	5⅜"	Dayton	—	**4M061**	2MDV6
	825	1	48YZ	208-230	2.1/2.1	Ball	½"	6"	5⅜"	Dayton	—	**4M262**	2MDV7
	825	2	48YZ	208-230	2.2	Ball	½"	6"	5¹⁵⁄₁₆"	Dayton	—	**3LU97**	2MDV6
½	1075	1	48YZ	208-230	3.1-3.1	Ball	½"	6"	6⅜"	Dayton	—	**4M207**	2MDV6
	1075	1	48YZ	460	2.1	Ball	½"	5"	5⅞"	Dayton	—	**3LU98**	2MDV7
	1075	2	48YZ	208-230	2.9	Ball	½"	6"	6⅛"	Dayton	—	**4M062**	2MDV7
	825	1	48YZ	208-230	3.19/3.05	Ball	½"	6"	6⅝"	Dayton	—	**4M263**	2MDV8
¾	1075	1	48YZ	208-230	4.7-4.7	Ball	½"	6"	7⅜"	Dayton	—	**4M208**	2MDV7
	1075	1	48YZ	460	2.0	Ball	½"	5"	6⅜"	Dayton	—	**3LU99**	2MDV7
	1075	2	48YZ	208-230	4.0-4.5	Ball	½"	5"	6⅛"	Dayton	—	**3M769**	2MDV9
Cradle Base-Mount, Open Air-Over, Shaft Up													
¼	1075	1	48YZ	208-230	2.3-2.5	Sleeve	½"	6"	5¹¹⁄₁₆"	Dayton	—	**3M990**	Included
	1075	1	48YZ	208-230	2.3-2.5	Sleeve	½"	6"	6¹⁵⁄₁₆"	Dayton	—	**3M226**	Included
⅓	1625	1	48YZ	208-230	3.1	Sleeve	½"	6"	5⅝"	Dayton	—	**3M265**	Included
	1075	1	48YZ	208-230	2.3	Ball	½"	6"	5⅝"	Dayton	—	**3M217**	Included
	825	1	48YZ	208-230	2.3-2.2	Ball	½"	6"	6¹⁵⁄₁₆"	Dayton	—	**3M224**	Included
½	1075	1	48YZ	208-230	3.1	Sleeve	½"	5"	5¹⁵⁄₁₆"	Dayton	—	**3M221**	Included
	1075	1	48YZ	208-230	3.1	Ball	½"	6"	5⅞"	Dayton	—	**3M994**	Included
	825	1	56YZ	230	3.27	Ball	½"	6"	7¹⁄₁₆"	Dayton	—	**3M295**	Included



No. 4UEZ3

Dayton®

½"- and ⅝"-Dia. Anti-Windmilling Brakes

Use to stop windmilling of rooftop motors.

For Use With	Item No.
Motors Having ½"-dia. Shafts	**4UEZ3**
Motors Having ⅝"-dia. Shafts	**4UEZ4**

Dayton®

Motor Rainshields

Disc-shaped rainshields prevent water from damaging open motors that are mounted either shaft-up or shaft-down in outdoor condenser units. Heavy-duty nylon construction resists heat and ultraviolet rays. No. 4UEZ6 has a deep dish for added protection. Nos. 4M219 and 4M220 have internal cooling vanes to reduce motor temperature, and a removable center plug.

Bore Dia.	Dia.	Item No.
½"	7¼"	**4UEZ6**
½"	6¾"	**4M219**
⅝"	6¾"	**4M220**



No. 4M220



No. 3RCR6

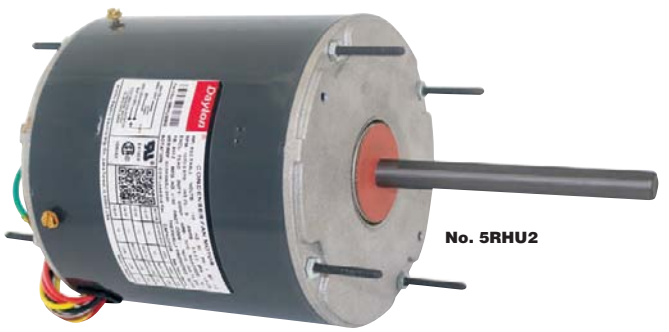
Century®

MultiFit® Multi-Mount and Multi-HP PSC Condenser Fan Motors

- NEMA frame: 42 (5" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud/band/hole
- Bearings: ball
- Max. ambient temp.: 60°C
- Duty: continuous

Motors replace 4.33", 4.42", and 4.62" mounting bolt circle without having to change capacitors or follow complicated wiring diagrams. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
1/8 to 1/12	1075	208-230	0.90	1/2"	3"	4"	9722	**3RCR6**	2MDV4
1/4 to 1/6	1625	208-230	1.6	1/2"	3"	4 1/2"	9724	**3RCR7**	2MDV4
	1075	208-230	2.0	1/2"	3"	4 1/2"	9723	**3RCR5**	2MDV6



No. 5RHU2

Dayton®

Multi-HP PSC 2-Speed Condenser Fan Motors

- NEMA frame: 48YZ (5 5/8" body dia.)
- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Multiple-horsepower design eliminates the need to select speed or change capacitor size during installation. Totally enclosed construction allows all-angle mounting. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures. Feature quick-change reversing plug. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	Capacitor Selection 1/6 to 1/5 HP	Capacitor Selection 1/4 to 1/3 HP
1/3 to 1/6	825	208-230	1.9-1.0	1/2"	5"	5 1/4"	**5RHU4**	2MDV6	2MDV7
	1075	115	5.8-2.2	1/2"	5"	5 13/16"	**5RHU2**	2MDV7	2MDV7
	1075	208-230	2.9-1.25	1/2"	5"	5 13/16"	**5RHU3**	2MDV7	2MDV7
1/2 to 1/3	1075	460	1.3-0.56	1/2"	5"	5 13/16"	**5RHU6**	Included	Included
	825	208-230	3.2-1.4	1/2"	6"	6 1/16"	**5RHU5**	2MDV7	2MDV7
	825	460	1.5-0.8	1/2"	6"	6 1/16"	**5RHU7**	Included	Included



No. 3RCP7

Century®

4-in-1® Multi-HP PSC Single-Speed Condenser Fan Motors

- NEMA frame: 48 (5 5/8" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Mounting: stud/band/hole
- Rheem mounting holes (screws included)
- Duty: continuous

Multiple-horsepower design eliminates the need to select speed or change capacitor size during installation. Totally enclosed construction allows all-angle mounting. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures. Feature quick-change rotation reversal plugs and drain plugs. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Ins. Class	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.	Capacitor Req.
1/8 to 1/15	1075	208-230	0.70-0.80	F	Ball	1/2"	6 1/2"	5 1/4"	70°C	ORM5454BF	**5DVX6**	2MDV4
	825	208-230	0.90-1.0	F	Ball	1/2"	6 1/2"	4 1/4"	70°C	ORM5484BF	**5DVX4**	2MDV4
1/3 to 1/8	825	208-230	2.1	B	Sleeve	1/2"	6 1/2"	4 7/8"	60°C	ORM5488	**3RCP8**	2MDV6
	825	208-230	2.1	F	Sleeve	1/2"	6"	5 3/8"	70°C	ORM5488F	**3RCR3**	2MDV6
	825	208-230	2.1	F	Ball	1/2"	6"	5 3/8"	70°C	ORM5488BF	**3RCR4**	2MDV6
	825	460	1.0	F	Ball	1/2"	6 1/2"	5 1/4"	70°C	ORM4688BF	**5DVX5**	2MDV6
1/3 to 1/6	1075	208-230	2.0	B	Sleeve	1/2"	6 5/8"	4 1/8"	60°C	ORM5458	**2CDT8**	2MDV6
	1075	208-230	2.0	B	Ball	1/2"	6 1/2"	4 1/8"	60°C	ORM5458B	**3RCP7**	2MDV6
	1075	208-230	2.1	F	Sleeve	1/2"	6"	4 5/8"	70°C	ORM5458F	**3RCR1**	2MDV6
	1075	208-230	2.1	F	Ball	1/2"	6"	4 5/8"	70°C	ORM5458BF	**3RCR2**	2MDV6
	1075	460	1.2	F	Ball	1/2"	6 1/2"	4 7/8"	70°C	ORM4658BF	**5DVX7**	2MDV6
	825	208-230	2.1	B	Ball	1/2"	6 1/2"	4 7/8"	60°C	ORM5488B	**3RCP9**	2MDV6
1/2 to 1/3	1075	208-230	3.6	F	Ball	1/2"	5 1/2"	5 3/8"	70°C	ORM5459BF	**16A115**	2MDV7
	1075	460	1.5	F	Ball	1/2"	5 1/2"	5 3/8"	70°C	ORM4659BF	**16A116**	2MDV7
	825	208-230	2.5	F	Ball	1/2"	5 1/2"	6 5/8"	70°C	ORM5489BF	**16A114**	2MDV7

HeatMaster® PSC High-Ambient Condenser Fan Motors

Find Dual-Run Capacitors on page 66.

- No. of speeds: 1
- Frame: 48Y (5⅝" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

PSC motors are insulated and designed for trouble-free operation at full rated load at high temperature. Rotor cores have corrosion-resistant coating to ensure long motor life. Easy-to-remove drain plugs in each end shield and have 36" color-coded, high-temp. leads. For outdoor air conditioning and refrigeration condensing units and heat pumps. UL Recognized and CSA Certified.



No. 4MB19

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
⅛	825	CW/CCW	208-230	0.90-1.0	5⅜"	½"	5⁹⁄₁₆"	4¹¹⁄₁₆"	FE1008SF	**4MB75**	2MDV4
⅙	1075	CW/CCW	208-230	1.3-1.4	5⅜"	½"	6"	4¹³⁄₁₆"	FE1016SF	**1UME7**	2MDV4
	825	CW/CCW	208-230	1.0-1.1	5⅜"	½"	6"	4¹⁵⁄₁₆"	FE1018SF	**1UME8**	2MDV4
¼	1075	CW/CCW	208-230	1.8-2.0	5⅜"	½"	6"	4⅝"	FE1026SF	**4MB59**	2MDV4
	1075	CW/CCW	460	1.0	5⅜"	½"	6"	4¾"	FEH1026SF	**4ME14**	2MDV6
	825	CW/CCW	208-230	1.3-1.5	5⅜"	½"	6"	5⁷⁄₁₆"	FE1028SF	**1UME9**	2MDV4
⅓	1075	CW/CCW	208-230	2.5-2.8	5⅜"	½"	6"	4⅞"	FE1036SF	**4MB61**	2MDV6
	1075	CW/CCW	460	1.3	5⅜"	½"	6"	5¼"	FEH1036SF	**4ME16**	2MDV6
	825	CW/CCW	208-230	1.9-2.1	5⅜"	½"	5⁹⁄₁₆"	5⁹⁄₁₆"	FE1038SF	**4MB19**	2MDV6
½	1075	CW/CCW	208-230	3.6-4.0	5⅜"	½"	6"	5⅝"	FE1056SF	**4MB63**	2MDV7
	1075	CW/CCW	460	1.5	5⅜"	½"	6"	6⁷⁄₁₆"	FEH1056SF	**1UMG2**	2MDV7
	825	CW/CCW	208-230	2.2-2.5	5⅜"	½"	6"	6⁷⁄₁₆"	FE1058SF	**1UMG1**	2MDV7
¾	1075	CW/CCW	208-230	4.6-5.1	5⅜"	½"	6"	5⅞"	FE1076SF	**4MB65**	2MDV9
	1075	CW/CCW	460	2.2	5⅜"	½"	6"	6⅛"	FEH1076SF	**4ME18**	2MDV7

HeatMaster® PSC Ultra Condenser Fan Motors

- No. of speeds: 1
- Frame: 48 (5¹¹⁄₁₆" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 80°C
- Duty: continuous

Insulated PSC motors are designed for trouble-free operation and feature a double flat shaft. Also feature ultra-high temperature synthetic bearing grease in double-sealed ball bearings to help the bearings stand up to the most severe conditions. Rotor cores have corrosion-resistant coating to ensure long motor life. Include water-resistant reversing plug and 48" high-temp. leads. Speed Engineered® for speed control duty. For use with outdoor air conditioning and refrigeration condensing units and heat pumps.



No. 32NA62

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
¼	1075	CW/CCW	208-230	1.9	5¹¹⁄₁₆"	½"	6½"	4⅜"	FE1026SU	**32NA65**	2MDV4
	1075	CW/CCW	460	0.90	5¹¹⁄₁₆"	½"	6½"	4¾"	FEH1026SU	**32NA69**	2MDV6
	825	CW/CCW	208-230	1.2	5¹¹⁄₁₆"	½"	6½"	4⅝"	FE1028SU	**32NA62**	2MDV4
⅓	1075	CW/CCW	208-230	2.5	5¹¹⁄₁₆"	½"	6½"	4⅞"	FE1036SU	**32NA66**	2MDV6
	1075	CW/CCW	460	1.2	5¹¹⁄₁₆"	½"	6½"	5¼"	FEH1036SU	**32NA70**	2MDV6
	825	CW/CCW	208-230	1.6	5¹¹⁄₁₆"	½"	6½"	5⅛"	FE1038SU	**32NA63**	2MDV6
⅓ to ⅛	825	CW/CCW	208-230	1.8	5¹¹⁄₁₆"	½"	6½"	4⅞"	ORM5488BU	**32NA72**	2MDV6
⅓ to ⅙	1075	CW/CCW	208-230	1.9	5¹¹⁄₁₆"	½"	6½"	4⅛"	ORM5458BU	**32NA73**	2MDV6
½	1075	CW/CCW	208-230	3.8	5¹¹⁄₁₆"	½"	6½"	5⅜"	FE1056SU	**32NA67**	2MDV7
	1075	CW/CCW	460	1.5	5¹¹⁄₁₆"	½"	6½"	5⅜"	FEH1056SU	**32NA71**	2MDV7
	825	CW/CCW	208-230	2.3	5¹¹⁄₁₆"	½"	6½"	5⅝"	FE1058SU	**32NA64**	2MDV7
¾	1075	CW/CCW	208-230	5.1	5¹¹⁄₁₆"	½"	6½"	5⅝"	FE1076SU	**32NA68**	2MDV9

PSC Stud- and Cradle-Mount Condenser Fan Motors

- NEMA frame: 56Y (6½" body dia.), 48Y (5⅝" body dia.)
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting position: vertical shaft up, except Nos. 4MA46 and 4MA48 are all-angle position
- Bearings: ball
- Shaft: ½" dia. have double flat; ⅝" dia. have flat and keyway

Multipurpose mounting in cradle, band, or by thru-bolt extensions. For 5-ton and larger commercial outdoor condensers. Also used for commercial and industrial coolers, and other shaft-mounted fan and blower equipment. UL Recognized and CSA Certified.



No. 4MA37



No. 4MA29

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Dia.	Shaft Length	Max. Ambient Temp.	Mfr. Model	Item No.	Capacitor Req.
Open Air-Over														
½	1075	56Y	200-230/460	2.6-2.5/1.2	Stud	9¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	C513V1	**4MA37**	2MDV7
	850	56Y	115/208-230	6.6/4.0-3.3	Stud	10¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	C784	**4MA39**	2MDV9
	850	56Y	200-230/460	3.5-3.4/1.7	Stud	10⅝"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	C512V1	**4MA25**	2MDV9
¾	1075	56Y	200-230/460	4.4-4.0/2.0	Ring/Stud	9¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	W56P11ORO40001A2A	**4MA41**	2MDV9
	1075	48Y	208-230/460	5.0-5.0/2.5	Cradle Base	8⅜"	2¼"	3⅜ x 3⅜"	½"	5"	60°C	FB1076V1	**4MA35**	Included
	825	56Y	200-230/460	5.3-5.2/2.6	Stud	10¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	C660V1	**4MA43**	2MDV9
1	1075	56Y	200-230/460	4.8-4.8/2.4	Stud	10⅝"	2½"	4⅛ x 4⅛"	⅝"	6"	60°C	C770V1	**4MA27**	2MDW3
Totally Enclosed Air-Over														
½	1075	48Y	208-230/460	2.4-2.4/1.2	Cradle Base	8⅜"	2¼"	3⅜ x 3⅜"	½"	5"	40°C	FB1056TE	**4MA29**	Included
	1075	48Y	208-230/460	2.4-2.4/1.2	Stud	6⅜"	2½"	3⅜ x 3⅜"	½"	5½"	60°C	FEH1056D	**4MA46**	2MDV7
¾	1075	48Y	208-230/460	3.4-3.4/1.7	Stud	6¹¹⁄₁₆"	2½"	3⅜ x 3⅜"	½"	5½"	60°C	FEH1076D	**4MA48**	2MDV7
1	1075	56Y	208-230/460	4.2-4.2/2.3	Cradle Base	11"	2½"	4⅛ x 4⅛"	⅝"	6"	40°C	FB1106TE	**4MA31**	Included
	1075	56Y	208-230/460	4.2-4.2/2.3	Stud	10¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	40°C	C785	**4MA50**	2MDZ3
1½	1075	56Y	208-230/460	6.6-6.6/3.3	Stud	10¹³⁄₁₆"	2½"	4⅛ x 4⅛"	⅝"	6"	40°C	C786	**4MA52**	2MDW3

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Find A/C Condenser Fan Replacement Propellers on page 2950.



No. 3RCT5

Century®

HeatMaster® Permanent Split Capacitor OEM Fan Canopy Condenser Fan Motors

- Speeds: 1
- Frame: 48Y (5⅝" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Mounting: band
- Mounting position: vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Motors provide a high-ambient alternative to OEM motors in many commercial condenser fan applications. The energy-efficient design comes with an ultrahigh torque to ensure performance in elevated temperatures. High-efficiency rating helps to increase motor life. Reversible design and supports application flexibility. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
⅝	1075	200-230/460	4.0/2.0	⅝"	4 7/16"	8½"	FC1066AF	**3RCT1**	2MDY7
⅞	1075	200-230/460	4.6/2.3	½"	4 3/16"	10 1/16"	FC1086F	**3RCT2**	2MDW2
⅞	1075	200-230/460	4.6/2.3	⅝"	4 3/16"	10 1/16"	FC1086AF	**3RCT3**	2MDW2
1	1075	200-230/460	6.4/3.2	⅝"	4 1/16"	10 13/16"	FC1106F	**3RCT4**	2MDW3
1½	1075	200-230/460	7.0/3.5	⅝"	4 1/16"	11 3/16"	FC1156F	**3RCT5**	2MDW3



No. 2XJK4

3-Phase OEM Fan Canopy Condenser Fan Motors

Century®

- NEMA frame: 48Y (5⅝" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Mounting: band
- Mounting position: vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Provide a high-ambient alternative to OEM motors in commercial condenser fan applications. Energy-efficient design with ultrahigh torque ensures performance in elevated temperatures. High-efficiency rating increases motor life. The reversible design supports application flexibility. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
½	1140	200-230/460	3.0-3.0/1.5	½"	3⅞"	7 13/16"	FC3056F	**2XJK4**
¾	1140	200-230/460	4.0-4.0/1.5	⅝"	4 1/16"	10"	FC3076F	**2XJK5**
1	1140	200-230/460	5.6/2.8	⅝"	4 1/16"	10"	FC3106F	**3RCT6**
1½	1120	200-230/460	5.8/2.9	⅝"	4 1/16"	10"	FC3156F	**3RCT7**



No. 20RK78



No. 20RK77

Dayton®

3-Phase Condenser Fan Motors With INPRO® Rings

- NEMA frame: 56YZ (6½" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: thermostat, except No. 20RK77 is auto
- Service factor: 1.0
- Insulation: Class F
- Inverter rated
- Mounting position: vertical shaft up
- Bearings: ball

Includes premounted INPRO grounding rings. Conduit entry located at shaft end. Keyed and flat shaft. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.
Band Mount								
1	1140	208-230/460	4.3-4.3/2.1	⅝"	5⅝"	9¾"	70°C	**20RK80**
	850	208-230/460	5.0-5.0/2.5	⅝"	5⅝"	10¾"	70°C	**20RK79**
	825	208-230/460	5.2-5.2/2.6	⅝"	3"	10¼"	60°C	**20RK78**
1½	1140	208-230/460	5.3-5.3/2.6	⅝"	5⅝"	10¼"	70°C	**20RK82**
2	1140	208-230/460	7.8-7.8/3.9	⅝"	5⅝"	10¾"	70°C	**20RK83**
Rigid Base Mount								
½	575	230/460	3.1/1.6	⅝"	3¼"	10¾"	60°C	**20RK77**
1	1140	208-230/460	4.3-4.3/2.1	⅝"	5⅝"	9¾"	70°C	**20RK85**
	850	208-230/460	5.0-5.0/2.5	⅝"	5⅝"	10¾"	70°C	**20RK84**
1½	1140	208-230/460	5.3-5.3/2.6	⅝"	5⅝"	10¼"	70°C	**20RK87**
2	1140	208-230/460	7.8-7.8/3.9	⅝"	5⅝"	10¾"	70°C	**20RK88**

3-Phase High-Ambient Condenser Fan Motors

Dayton

- NEMA frame: 56YZ (5⅝" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: thermostat, except No. 24PR76 is auto
- Service factor: 1.0
- Insulation: Class F
- Mounting position: vertical shaft up
- Bearings: ball
- Duty: continuous

Rugged design and features inverter-duty windings. Suitable for use in commercial air conditioners. Keyed and flat shaft. UL Recognized and CSA Certified.



No. 24PR70

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.
Band Mount								
1	1140	208-230/460	4.3-4.3/2.1	⅝"	5⅝"	9¾"	70°C	**24PR72**
	850	208-230/460	5.0-5.0/2.5	⅝"	5⅝"	10¾"	70°C	**24PR71**
	825	208-230/460	5.2-5.2/2.6	⅝"	3"	10¼"	60°C	**24PR70**
1½	1140	208-230/460	5.3-5.3/2.6	⅝"	5⅝"	10¼"	70°C	**24PR74**
2	1140	208-230/460	7.8-7.8/3.9	⅝"	5⅝"	10¾"	70°C	**24PR75**
Rigid Base Mount								
½	575	230/460	3.1/1.6	⅝"	3¼"	10¾"	60°C	**24PR76**
1	1140	208-230/460	4.3-4.3/2.1	⅝"	5⅝"	9¾"	70°C	**24PR78**
	850	208-230/460	5.0-5.0/2.5	⅝"	5⅝"	10¾"	70°C	**24PR77**
1½	1140	208-230/460	5.3-5.3/2.6	⅝"	5⅝"	10¼"	70°C	**24PR80**
2	1140	208-230/460	7.8-7.8/3.9	⅝"	5⅝"	10¾"	70°C	**24PR81**



No. 24PR76

JuggerNaut® 3-Phase High-Ambient Condenser Fan Motors

Century®

- NEMA frame: 56HZ (6½" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Inverter rated
- Mounting: base/stud/band
- Mounting position: horizontal or vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous
- Stud pattern: 4⅛" x 4⅛"

Replace OEM motors in commercial condenser fan applications. Energy-efficient design ensures performance in elevated temperatures. 56H rigid base is easy to remove for mounting flexibility (except Nos. 426J46 and 490T58 do not have a removable base). Feature an innovative VCM™ (voltage change module) to ease installation and a large water slinger to help protect bearings. 60/50 Hz. UL Recognized and CSA Certified.



No. 429J45

HP	Nameplate RPM	Voltage	Full Load Amps	Mounting	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1	1140	208-230/460	3.8-4.0/2.0	Rigid Base	⅝"	6"	10⅜"	H1050AV1	**429J40**
	850/715	208-230/460	5.1-5.4/2.7	Rigid Base	⅝"	6"	12⁷⁄₁₆"	H1053RBV1	**490T58**
	850	208-230/460	5.1-5.4/2.7	Rigid Base	⅝"	6"	12⅞"	H1053AV1	**429J44**
1½	850	208-230/460	5.7-5.9/3.3	Rigid Base	⅝"	6"	12½"	H1054RBV1	**429J46**
	850	208-230/460	5.7-5.9/3.3	Rigid Base	⅝"	6"	12⅞"	H1054AV1	**429J45**
2	1140	208-230/460	7.0-7.0/3.5	Rigid Base	⅝"	6"	12⁵⁄₁₆"	H1052AV1	**429J42**

Century®

3-Phase Condenser Fan Motors

- NEMA frame: 56Y (6½" body dia.)
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting position: vertical shaft up, except Nos. 4MB89 and 4ME20 are all-angle
- Bearings: ball
- Max. ambient temp.: 60°C
- Duty: continuous

Energy-efficient motors have cooler running temperature to ensure longer life performance. For 5-ton and larger commercial outdoor condensers. UL Recognized and CSA Certified.



No. 429J38



No. 4ME20

HP	Nameplate RPM	Voltage	Full Load Amps	Mounting	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Open									
1	1140	200-230/460	4.3-4.6/2.3	Stud	⅝"	6"	10½"	H667V1	**429J38**
Open Air-Over									
½	1140	200-230/460	2.8-2.6/1.3	Stud	⅝"	6"	10⁵⁄₁₆"	H564	**4MB87**
¾	1140	200-230/460	2.8-3.0/1.5	Stud	⅝"	6"	10⁵⁄₁₆"	H567	**4MB85**
1	850	200-230/460	4.4-4.0/2.0	Band	⅝"	4⅞"	9⅜"	H686	**4ME24**
1½	1140	200-230/460	5.1-5.0/2.5	Stud	⅝"	6"	11"	H767V1	**429J39**
	1140	200-230/460	5.1-5.0/2.5	Rigid Base	⅝"	6"	11⁵⁄₁₆"	56T110RR40003A2	**4ME22**
2	1140	208-230/460	6.8-6.2/3.1	Band	⅝"	6"	12³⁄₁₆"	H699	**4MB89**
Totally Enclosed Air-Over									
1	1140	200-230/460	3.8-3.6/1.8	Rigid Base	⅝"	3½"	9⅜"	H685V1	**4ME20**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Ring- and Cradle-Mount Evaporative Cooler Motors

Century®

- Thermal protection: auto
- Service factor: 1.0, except No. 5DVX1 is 1.25 and No. 4UE50 is 1.15
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Ring dia.: 2½"

Designed for evaporative coolers, pumps, and other devices in high-moisture environments. Moisture-resistant features include: plated hardware and switch parts and double-dip varnish. UL Recognized and CSA Certified.



No. 5DVX1

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1 Speed, Split-Phase, Open Dripproof												
⅓	1725	56Z	CCWLE	115	6.5	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	VB2034V1	**2HTK3**
	1725	56Z	CW/CCW	115	6.5	Cradle Base	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	VB2034BV1	**2HTK4**
½	1725	56Z	CCWLE	115	7.8	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	VB2054V1	**2HTK7**
	1725	56Z	CW/CCW	115	7.8	Cradle Base	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	VB2054BV1	**2HTK8**
¾	1725	56Z	CCWLE	115	10.6	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	VB2074V1	**2HTL2**
	1725	56	CW/CCW	115	10.6	Cradle Base	7 7⁄16 in	⅝ in	1 ⅞ in	7 15⁄16 in	VB2074BV1	**2HTL3**
1 Speed, Capacitor-Start, Open												
1	1725	56	CW/CCW	115/208-230	14.4/6.6-7.2	Cradle Base	7 ½ in	⅝ in	1 ⅞ in	9 ⅞ in	V1104BL	**5DVX1**
1 Speed, Capacitor-Start, Open Dripproof												
1 ½	1725	56Z	CW/CCW	115/230	15.0/7.5	Cradle Base	11 ⅛ in	⅞ in	2 ¼ in	7 ½ in	V1154BV1	**4UE51**
1 Speed, Capacitor-Start/Run, Open Dripproof												
2	1725	56Z	CW/CCW	115/230	17.0/8.5	Cradle Base	11 1⁄16 in	⅞ in	2 ¼ in	11 ½ in	56B17DRS40004A2A	**4UE50**
2 Speed, Split-Phase, Open Dripproof												
⅓; 1⁄10	1725/1140	56Z	CCWLE	115	6.9/4.0	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2034V1	**2HTK5**
⅓; ⅙	1725/1140	56Z	CW/CCW	115	6.9/3.4	Cradle Base	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2034BV1	**2HTK6**
½; ⅙	1725/1140	56Z	CCWLE	115	8.5/4.1	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2054V1	**2HTK9**
	1725/1140	56Z	CCWLE	230	4.4/2.0	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2054HV1	**2HTL1**
¾; ¼	1725/1140	56Z	CCWLE	115	10.5/5.0	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2074V1	**2HTL4**
	1725/1140	56Z	CCWLE	230	5.6/2.8	Ring	7 7⁄16 in	½ in	1 ½ in	7 15⁄16 in	SVB2074HV1	**2HTL5**
¾; ⅓	1725/1140	56	CW/CCW	115	9.8/6.4	Cradle Base	7 7⁄16 in	⅝ in	1 ⅞ in	7 15⁄16 in	SVB2074BV2	**2HTL6**

Evaporative Cooler Motors

WEG

- Enclosure: open dripproof
- Rotation: CWSE
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Ring dia. 2½"

Epoxy paint over a layer of zinc phosphate helps prevent corrosion. For use in evaporative coolers, exhaust fans, blowers, and air conditioning equipment. UL and C-UL Recognized.



No. 6AYN8

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1 Speed, Split-Phase										
⅓	1725	56Z	115	6.6	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.3318OS1AEC56	**6AYP7**
½	1725	56Z	115	8.2	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.5018OS1AEC56	**6AYP8**
	1725	56Z	230	4.8	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.5018OS1DEC56	**6AYP5**
1 Speed, Capacitor-Start										
¾	1725	56Z	115	10.4	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.7518OS1AEC56	**6AYP9**
	1725	D56	230	5.5	7 7⁄16"	⅝"	1 11⁄16"	7 7⁄8"	.7518OS1DEC56	**6AYP6**
2 Speed, Split-Phase										
⅓, ⅛	1725/1140	56Z	115	6.6/3.7	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.3382OS1AEC56	**6AYN8**
½, ⅙	1725/1140	56Z	115	8.2/4.6	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.5082OS1AEC56	**6AYN9**
	1725/1140	56Z	230	4.8/2.1	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.5082OS1DEC56	**6AYP2**
2 Speed, Capacitor-Start										
¾, ¼	1725/1140	56Z	115	10.4/5.5	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.7582OS1AEC56	**6AYP0**
	1725/1140	56Z	230	5.5/2.6	7 7⁄16"	½"	1 11⁄16"	7 7⁄8"	.7582OS1DEC56	**6AYP3**
1, ⅓	1725/1140	56Z	230	6.4/3.0	8 7⁄16"	⅝"	1 15⁄16"	8 21⁄25"	00182OS1DEC56	**6AYP4**
2 Speed, Capacitor-Start/Run										
1, ⅓	1725/1140	56Z	115	12.1/7.1	8 7⁄16"	⅝"	1 15⁄16"	8 21⁄25"	00182OS1AEC56	**6AYP1**

PSC Cradle/Stud-Mount Direct-Drive Motors

Century®

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Energy-efficient motors are supplied with mounted capacitor. Terminal board on all motors. For use in exhaust fans, air circulators, and other equipment operating in dusty, dirty, noncombustible environments. UL Recognized and CSA Certified.



No. 2FGR2

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Stud Pattern	Mfr. Model	Item No.
1 Speed													
¼	1100	48Z	CW/CCW	115/230	4.0/2.0	6½"	5⅝"	½"	3¼"	7"	3⅜ x 3⅜"	C045A	**2FGR2**
⅓	1100	48Z	CW/CCW	115/230	4.5/2.3	6¾"	5⅝"	½"	3¼"	7¼"	3⅜ x 3⅜"	C046A	**2FGP8**
½	1100	48Z	CW/CCW	115/230	6.5/3.2	7⅞"	5⅝"	½"	3⅛"	8⅜"	3⅜ x 3⅜"	C047A	**2FGP9**
¾	1075	56	CCWLE	115/230	7.3/3.7	8⅞"	6½"	⅝"	1⅞"	9 5⁄16"	4⅛ x 4⅛"	C060	**4UB77**
2 Speed													
¼	1100	48Z	CW/CCW	115	3.4	7 3⁄16"	5⅝"	½"	2½"	7⅝"	3⅜ x 3⅜"	C059A	**4VYZ4**

Direct-Drive and Belt-Drive Ventilator Motors

Dayton®

- Thermal protection: auto, except for Nos. 4YU38, 4YU39, 4YU40, and 6XWJ0
- Max. ambient temp.: 40°C, except No. 4YU31 is 65°C
- Duty: continuous
- Permanent split capacitor motors include capacitor

Designed specifically as replacement motors for Dayton® ventilators. UL Recognized and CSA Certified.


No. 4HZ61


No. 4YU22


No. 6XWJ0

HP	Nameplate RPM	Frame	Enclosure	Rotation	Voltage	Full Load Amps	Mounting	Bearings	Shaft Dia.	Shaft Length	Item No.
Direct-Drive, Shaded Pole											
1/30	1550/1300/1050	3.3	Open Air-Over	CCWSE	115	1.3	Stud	Sleeve	5/16"	3"	**4YU32**
1/25	1550/1300/1050	3.3	Open Air-Over	CCWSE	115	1.6	Stud	Sleeve	5/16"	3"	**4YU33**
	1550	3.3	Open Air-Over	CCWSE	115	1.4	Stud	Ball	5/16"	3"	**4HZ66**
1/20	1550/1300/1050	4.4	Open Air-Over	CCWSE	115	2.0	Stud	Sleeve	1/2"	2 3/4"	**1AGF8**
Direct-Drive, Permanent Split Capacitor											
1/12	850	48Y	Open Air-Over	CCWSE	115	1.6	Stud	Ball	1/2"	3"	**4HZ62**
	850	48Y	Open Air-Over	CCWSE	115	1.6	Stud	Ball	5/8"	3"	**4HZ64**
1/8	1750	48YZ	Totally Enclosed Air-Over	CWLE	115	1.7	Stud	Ball	1/2"	4 1/2"	**4YY56**
	1550/1300/1050	48Y	Totally Enclosed Air-Over	CCWSE	115	1.7	Stud	Sleeve	1/2"	3 3/4"	**1AGF9**
	1550/1300/1050	42Y	Open Air-Over	CCWSE	115	2.6	Stud	Ball	1/2"	2 3/4"	**4YU34**
	860	48Y	Open Air-Over	CW/CCW	115	2.0	Stud	Sleeve	1/2"	2 1/2"	**4YU19**
1/6	1650	48YZ	Open Air-Over	CCWSE	115	2.3	Stud	Ball	1/2"	3"	**4HZ60**
	1140	48Y	Open Air-Over	CW/CCW	115	2.2	Stud	Ball	1/2"	2 1/2"	**4YU23**
	1140	48Y	Open Air-Over	CW/CCW	115	2.2	Stud	Ball	1/2"	4"	**5BE62**
	850	48Y	Open Air-Over	CCWSE	115	2.4	Stud	Ball	5/8"	3"	**4HZ68**
1/4	1725	48Y	Open Air-Over	CW/CCW	115	3.6	Rigid Base	Ball	1/2"	3 1/4"	**4YU27**
	1725	48Y	Open Air-Over	CW/CCW	115	4.2	Stud	Ball	1/2"	3 1/4"	**5BE52**
	1140	48Y	Open Air-Over	CW/CCW	115	3.2	Stud	Ball	1/2"	2 1/2"	**4YY54**
	860	56Z	Open Dripproof	CW/CCW	115	4.8	Cradle Base	Ball	5/8"	2 3/4"	**4YU20**
	850	48Y	Open Air-Over	CCWSE	115	3.2	Stud	Ball	5/8"	3"	**4HZ65**
1/3	1650	48Y	Open Air-Over	CW/CCW	115	4.0	Stud	Ball	1/2"	3"	**4HZ67**
	1140	56Z	Open Air-Over	CW/CCW	115	4.7	Stud	Ball	5/8"	2 3/4"	**5BE64**
	1100	48Y	Open Air-Over	CCWSE	115	4.1	Stud	Ball	5/8"	3"	**4HZ69**
	1100	56Z	Open Dripproof	CW/CCW	115	4.7	Cradle Base	Ball	5/8"	2 3/4"	**4YU24**
	1100	56Z	Open Dripproof	CW/CCW	115	4.7	Face	Ball	5/8"	4 1/4"	**6TWL4**
	860	56HZ	Open Air-Over	CW/CCW	115	5.5	Cradle Base	Ball	5/8"	3 1/4"	**4YU21**
	850	48Y	Open Air-Over	CCWSE	115	4.1	Stud	Ball	5/8"	3"	**4HZ70**
1/2	1725	48Z	Open Air-Over	CW/CCW	115/230	6.0/3.0	Rigid Base	Ball	1/2"	3"	**4YU28**
	1725	48Z	Open Dripproof	CW/CCW	115/230	6.0/3.0	Stud	Ball	1/2"	3"	**5BE54**
	1650	48Y	Open Air-Over	CCWSE	115/230	8.0-4.0	Stud	Ball	5/8"	3"	**4HZ63**
	1140	56Z	Open Air-Over	CW/CCW	115/230	5.4/2.7	Stud	Ball	5/8"	2 3/4"	**5BE66**
	1100	48Y	Open Air-Over	CCWSE	115/230	5.2-2.4	Stud	Ball	5/8"	3"	**4HZ61**
	860	48Z	Open Air-Over	CW/CCW	115/230	6.0/3.0	Rigid Base	Ball	1/2"	3"	**4YU22**
3/4	1725	48Z	Open Air-Over	CW/CCW	115/230	7.0/3.5	Rigid Base	Ball	1/2"	3"	**4YU29**
	1725	48Z	Open Air-Over	CW/CCW	115/230	7.0/3.5	Stud	Ball	1/2"	2 1/2"	**5BE56**
	1140	48Z	Open Air-Over	CW/CCW	115/230	8.0/4.0	Rigid Base	Ball	1/2"	3"	**4YY55**
	1100	48Y	Open Air-Over	CCWSE	115/230	10.0-5.0	Stud	Ball	5/8"	3 1/4"	**4HZ71**
1	1140	48Z	Open Air-Over	CW/CCW	115/230	11.4/5.7	Rigid Base	Ball	1/2"	3"	**4YU26**
	1140	48Z	Open Air-Over	CW/CCW	115/230	11.4/5.7	Stud	Ball	5/8"	3"	**5BE68**
Direct-Drive, Capacitor-Start											
3/4	1725	56	Open Dripproof	CW/CCW	115/208-230	10.6	Cradle Base	Ball	5/8"	1 7/8"	**4YU35**
1	1725	56Z	Open Dripproof	CW/CCW	115/208-230	12.8/6.4-6.4	Stud	Ball	5/8"	2 3/8"	**5BE58**
1 1/2	1725	56Z	Open Dripproof	CW/CCW	115/208-230	13.2/7.2-6.6	Stud	Ball	5/8"	2 1/4"	**5BE60**
Direct-Drive, 3-Phase											
1	1725	56	Open Dripproof	CW/CCW	208-230/460	3.4-3.4/1.7	Rigid Base	Ball	5/8"	1 7/8"	**4YU38**
1 1/2	1725	56H	Open Dripproof	CW/CCW	208-230/460	4.8-4.8/2.4	Rigid Base	Ball	5/8"	1 7/8"	**4YU39**
2	1725	56H	Open Dripproof	CW/CCW	208-230/460	6.2-6.2/3.1	Rigid Base	Ball	5/8"	1 7/8"	**4YU40**
3	1725	182T	Open Dripproof	CW/CCW	208-230/460	8.5-8.0/4.0	Rigid Base	Ball	1 1/8"	2 3/4"	**6XWJ0**
Belt Drive, Capacitor-Start											
1/4	1725	48YZ	Open Dripproof	CW/CCW	115/208-230	6.2/2.8-3.1	Cradle Base	Ball	1/2"	1 7/8"	**1AGG1**
1/3	1725	48Z	Open Dripproof	CW/CCW	115/208-230	5.8/3.1-2.9	Cradle Base	Ball	1/2"	1 7/8"	**1AGG2**
1/2	1725	56	Open Dripproof	CW/CCW	115/208-230	7.2/3.6-3.6	Cradle Base	Ball	5/8"	1 7/8"	**1AGG3**
1	1725	56	Open Dripproof	CW/CCW	115/208-230	12.8/6.4-6.4	Cradle Base	Ball	5/8"	1 7/8"	**4YU30**
1 1/2	1725	56H	Open Dripproof	CW/CCW	115/208-230	13.2/7.2-6.6	Rigid Base	Ball	5/8"	1 7/8"	**4YU31**

Motor to Ventilator Cross Reference

Motor	Ventilator (Used In)						
Belt Drive							
1AGG1	1MBE6	2RB59	2RB60	2RB61	3HFL6	20FT09	—
1AGG2	1MBE7	2RB62	—	—	—	—	—
1AGG3	1MBE8	2RB63	2RB64	3ATT8	3HFL7	—	—
4YU30	1MBE9	2TE33	3ATT9	3ATU7	3GY70	5PV07	7A626
4YU31	2TE34	3ATU5	3ATU9	3GY71	3HFL8	5PV08	—
4YU35	3ATU2	3ATU4	5PV06	—	—	—	—
4YU38	3ATU1	3ATU3	3GY66	—	—	—	—
4YU39	3ATU6	3GY67	—	—	—	—	—
4YU40	3ATU8	3GY68	3GY73	—	—	—	—
6XWJ0	2TE35	3ATV1	3GY69	3GY74	—	—	—

Motor	Ventilator (Used In)										
Direct Drive											
1AGF8	16D531	16D532	2RB53	5DVP0	5DVP1	5DVP2	5DVP3	5DVR7	—	—	—
1AGF9	2RB86	5TCK8	—	—	—	—	—	—	—	—	—
4YU19	4HZ44	4HZ46	4HZ48	4HZ50	4YC68	4YC70	4YC72	6KWK4	—	—	—
4YU20	4HZ52	4HZ54	4YC73	—	—	—	—	—	—	—	—
4YU21	4YC76	—	—	—	—	—	—	—	—	—	—
4YU22	4HZ56	4HZ58	—	—	—	—	—	—	—	—	—
4YU23	16D538	20FT10	20FT12	4HZ36	4HZ38	4HZ40	4HZ42	5DVR9	5DVT1	5TCL0	6KWK5
4YU24	4YY75	5TCL1	—	—	—	—	—	—	—	—	—
4YU26	4HZ57	4HZ59	—	—	—	—	—	—	—	—	—
4YU27	16D535	20FT11	20FT13	2RB87	4HZ37	4HZ39	4HZ41	4HZ43	4YC69	5DVT0	6KWK6
4YU28	16D536	16D537	4YC69	4YC71	5DVP8	5DVP9	5TCK9	—	—	—	—
4YU29	4HZ45	4HZ47	—	—	—	—	—	—	—	—	—
4YU32	16D528	16D529	4HZ32	4HZ34	4YC64	5DVN8	5DVN9	5DVR6	5TCK6	—	—
4YU33	16D530	4HZ33	4HZ35	4YC65	—	—	—	—	—	—	—
4YU34	16D534	4YC66	4YC67	5DVP6	5DVP7	—	—	—	—	—	—

Motor	Ventilator (Used In)				
Direct Drive					
4YY54	4HZ49	4HZ51	4YC73	—	
4YY55	4HZ53	4HZ55	4YC77	—	
4YY56	4YC86	—	—	—	
5BE52	4YC88	4YC91	4YC92	4YC93	
5BE54	4YC49	4YC56	4YC90	4YC94	
5BE56	4YC57	4YC58	—	—	
5BE58	4YC51	4YC59	—	—	
5BE60	4YC53	4YC61	—	—	
5BE62	4YC48	4YC87	4YC89	—	
5BE64	4YC50	—	—	—	
5BE66	4YC52	4YC54	4YC60	4YC62	
5BE68	4YC55	4YC63	—	—	
6TWL4	4YC72	—	—	—	

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



No. 3M827





No. 4UX67



No. 3M505

Dayton

Pedestal Fan Motors

- Thermal protection: auto
- Service factor: 1.0
- Max. ambient temp.: 40°C
- Duty: continuous air-over
- Stud pattern: 3⅝" x 3⅝"

Designed with integral yoke bracket, except No. 3M827 includes yoke strap. Studs allow fan guard to be mounted directly to shaft endshield. UL Recognized and CSA Certified.

WARNING: Motor overload could result if the fan blade is not correctly matched to the motor's HP and RPM rating.

HP	Nameplate RPM	No. of Speeds	Frame	Enclosure	Rotation	Voltage	Full Load Amps	Ins. Class	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Overall Length	10 Ft. Cord and Pull Chain Switch	Item No.
Shaded Pole															
1/15	1550	2	Non-Standard	Open Air-Over	CWSE	115	2.4	B	Sleeve	4¾"	⅜"	1⅜"	7"	Yes	**3M827**
Permanent Split Capacitor, Capacitor Included															
¼	1075	2	48YZ	Open Air-Over	CWSE	115	3.1	B	Ball	5⅝"	½"	3¾"	10¾"	Yes	**4UX60**
	1075	2	48YZ	Totally Enclosed Air-Over	CW/CCW	115	3.1	B	Ball	5⅝"	½"	2½"	10 3/16"	No	**3M504**
	1075	2	48YZ	Totally Enclosed Air-Over	CWSE	115	3.1	B	Ball	5⅝"	½"	3"	9 1/16"	Yes	**4UX61**
⅓	1075	2	48YZ	Totally Enclosed Air-Over	CW/CCW	115	5.3	B	Ball	5⅝"	½"	2½"	10 9/16"	No	**3M469**
	825	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115	4.8	B	Ball	5⅝"	½"	2½"	9⅞"	Yes	**4UX64**
½	1075	2	48YZ	Totally Enclosed Air-Over	CW/CCW	115	7.2	B	Ball	5⅝"	⅝"	2½"	10 13/16"	No	**3M505**
	1075	2	48YZ	Totally Enclosed Air-Over	CWSE	115	5.8	B	Ball	5⅝"	⅝"	3 1/16"	10 7/16"	Yes	**4UX63**
	825	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115	6.4	B	Ball	5⅝"	⅝"	1⅞"	10"	No	**4UX59**
Permanent Split Capacitor, Oscillating Fan, Capacitor Included															
¼	1075/875	2	48YZ	Totally Enclosed Air-Over	CWSE	115	2.8	B	Ball	5⅝"	½"	3⅛"	13 15/16"	Yes	**4C354**
½	875/1075	2	48YZ	Totally Enclosed Air-Over	CWSE	115	4.5	B	Ball	5⅝"	⅝"	3 1/16"	13 15/16"	Yes	**5C040**
Split-Phase															
¼	1725	1	48YZ	Open Air-Over	CWSE	115	4.9	B	Ball	5⅝"	⅝"	2"	10	Yes	**4UX66**
	1725	1	48YZ	Open Air-Over	CW/CCW	115	4.9	B	Ball	5⅝"	½"	2"	9½"	No	**6K403**
	1725	1	48YZ	Totally Enclosed Air-Over	CWSE	115	4.5	B	Ball	5⅝"	⅝"	2"	10"	Yes	**4UX67**
	1725	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115	4.5	B	Ball	5⅝"	½"	2"	10	No	**6K406**
⅓	1725	1	48YZ	Open Air-Over	CW/CCW	115	4.8	B	Ball	5⅝"	⅝"	2"	10"	Yes	**4UX68**
	1725	1	48YZ	Open Air-Over	CW/CCW	115	4.8	B	Ball	5⅝"	½"	2"	10⅛"	No	**6K410**
	1725	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115	4.8	B	Ball	5⅝"	½"	2"	10⅛"	No	**6K807**
½	1725	1	48YZ	Open Air-Over	CW/CCW	115	6.5	B	Ball	5⅝"	⅝"	2½"	10"	Yes	**4UX65**
	1725	1	48YZ	Open Air-Over	CW/CCW	115	7.9	B	Ball	5⅝"	⅝"	2"	10⅛"	No	**6K405**
	1725	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115/230	6.9/3.5	B	Ball	5⅝"	⅝"	2"	10¼"	No	**6K411**
	1725	1	48YZ	Totally Enclosed Air-Over	CW/CCW	115	6.6	B	Ball	5⅝"	⅝"	2"	10⅜"	No	**6K809**



No. 2WCE6



No. 4UY24

Century

Permanent Split Capacitor and 3-Phase Transformer Cooling Fan Motors

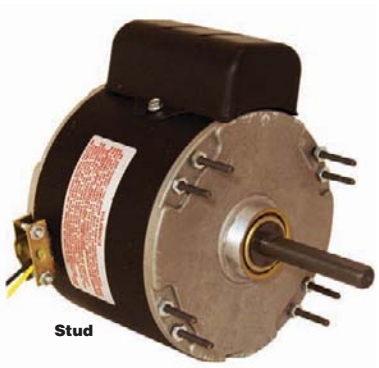
- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- 60/50 Hz
- Service factor: 1.0 (No. 2WCE6); 1.5 (No. 4UY24)
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 65°C
- Duty: continuous
- Shaft orientation: all-angle
- Stud pattern: 3⅝" x 3⅝" (PSC); 4⅛" x 4⅛" (3-Phase)"

Specifically designed for use on outdoor transformer cooling fans. High-efficiency motors with stainless steel shaft. UL Recognized and CSA Certified.

HP	Nameplate RPM	RPM @ 50 Hz	Frame	Voltage	Full Load Amps	Mounting	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Permanent Split Capacitor, Capacitor Included												
⅓	1075	900	48Y	115/200-230	6.4/3.6-3.1	Rigid Base	5⅝"	½"	2"	7¾"	C723V1A	**2WCE6**
3-Phase												
⅓	1140	950	56	200-230/460	1.9-1.8/0.09	Rigid Base	6½"	⅝"	1⅞"	10 5/16"	H1040	**4UY24**


Ring


Cradle Base


Stud

Permanent Split Capacitor Unit Heater Motors

Century®

- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Duty: continuous

Use with unit heaters and other shaft-mounted fan and blower equipment in dusty, dirty, noncombustible environments. Cradle base models have 1" x 5/16" mounting slots in a 1 11/16" x 3 1/2" pattern. UL Recognized and CSA Certified.

HP	Nameplate RPM	Voltage	Full Load Amps	Ins. Class	Mounting	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Ring Dia.	Ring to Ring Center	Stud Pattern	Max. Ambient Temp.	Item No.
1-Speed, 42Y Frame															
	1550	115	1.6	B	Ring	Sleeve	5"	3/8"	1 1/2"	6 11/16"	2 1/4"	6 5/16"	—	40°C	**4UE31**
1/12	1550	208-230	0.65-0.65	B	Ring	Sleeve	5"	3/8"	1 1/2"	6 11/16"	2 1/4"	6 5/16"	—	40°C	**4UE33**
	1050	115	1.8	B	Ring	Sleeve	5"	3/8"	1 1/2"	6 11/16"	2 1/4"	6 5/16"	—	40°C	**4UE32**
1/8	1075	115	2.6	A	Cradle Base	Sleeve	5"	1/2"	2 3/8"	4 15/16"	2 1/2"	4 9/16"	—	40°C	**4LY82**
1-Speed, 48Y Frame															
	1075	115	2.2	B	Ring/Stud	Ball	5 9/16"	1/2"	3 3/8"	5 1/8"	—	—	3 5/8" x 3 5/8" SE, 4 1/2" x 2 9/16" SE	60°C	**4LY86**
1/6	1075	115	2.2	B	Stud	Ball	5 9/16"	1/2"	3 3/8"	5 1/8"	—	—	3 5/8" x 3 5/8" OSE, 4 1/2" x 2 9/16" SE	60°C	**4LY94**
	1075	115	2.2	B	Cradle Base	Ball	5 9/16"	1/2"	5"	5 1/4"	2 1/2"	4 13/16"	3 5/8" x 3 5/8" SE, 4 1/2" x 2 9/16" SE	60°C	**4UE26** †
	1140	115/208-230	3.1/1.6-1.6	B	Cradle Base	Ball	5 5/8"	1/2"	4 9/16"	7 1/4"	2 1/4"	6 7/8"	3 5/8" x 3 5/8" SE	60°C	**4HCJ2**
1/4	1075	115	4.9	B	Ring/Stud	Ball	5 5/8"	1/2"	2 1/2"	5 3/8"	—	—	3 5/8" x 3 5/8" SE, 4 1/2" x 2 9/16" SE	40°C	**4LY90**
	1075	115	4.9	B	Cradle Base	Ball	5 5/8"	1/2"	5"	5 3/8"	2 1/2"	4 15/16"	3 5/8" x 3 5/8" SE, 4 1/2" x 2 9/16" SE	40°C	**4UE27** †
	1075	208-230	1.8-1.8	B	Cradle Base	Ball	5 5/8"	1/2"	5"	5 3/8"	2 1/4"	4 15/16"	3 5/8" x 3 5/8" SE	40°C	**4UE30** †
	1075	115	5.3	A	Cradle Base	Ball	5 5/8"	1/2"	2 1/2"	5 5/8"	2 1/2"	5 3/16"	3 5/8" x 3 5/8" SE, 4 5/8" x 2 5/16" SE	40°C	**4HCH8**
1/3	1075	115	5.3	A	Cradle Base	Ball	5 5/8"	1/2"	5"	5 5/8"	2 1/2"	5 3/16"	3 5/8" x 3 5/8" SE, 4 1/2" x 2 9/16"SE	40°C	**4UE28** †
	1075	208-230	2.2-2.2	B	Cradle Base	Ball	5 5/8"	1/2"	5"	5 5/8"	2 1/4"	5 3/16"	3 5/8" x 3 5/8" SE	40°C	**4UE29** †
1/2	1140	115/208-230	5.6/2.5-2.8	B	Cradle Base	Ball	5 7/8"	1/2"	4 1/2"	8 3/8"	2 1/4"	7 7/8"	3 5/8" x 3 5/8" SE	60°C	**4HCH7**
2-Speed, 48Y Frame															
1/3	1100	115	4.3-1.8	B	Ring/Stud	Ball	5 5/8"	1/2"	5"	6 1/8"	2 1/4"	5 11/16"	3 5/8" x 3 5/8" SE	40°C	**4LY92** *
	1100	230	1.7-1.1	B	Ring/Stud	Ball	5 5/8"	1/2"	5"	6 1/8"	2 1/4"	5 11/16"	3 5/8" x 3 5/8" SE	40°C	**4LY88** *

** Includes split rings to increase ring dia. from 2 1/4" to 2 1/2". † Unassembled cradle base.*

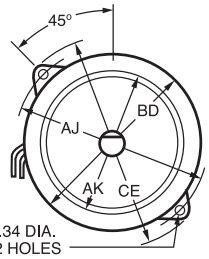

No. 4MA30


No. 4MA18


No. 4MA22

Century®

1-Phase Flange-Mount Oil Burner Motors



NEMA 48M, and 48N Flange Mount Dimensions: Oil Burner Motors		
	48M	48N
AJ	6 3/4"	7 1/4"
BD	6 1/4" Max.	7" Max.
AK	5 1/2"	6 3/8"
CE	7 3/4" Max.	8 1/4" Max.

- Thermal protection: manual, except No. 4GZK2 is auto
- Service factor: 1.0, except No. 4MA22 is 1.35 and No. 4MA24 is 1.25
- Max. ambient temp.: 40°C

NEMA oil burner flange for direct coupling to domestic oil burners. Feature quick-change reversing terminals, except for No. 4GZK2. Capacitor-start and permanent split capacitor motors include capacitor. UL Recognized and CSA Certified.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Motor Design	Ins. Class	Bearings	Mfr. Model	Item No.
Totally Enclosed Nonventilated, Nonventilated Flange										
1/3	1725	48N	CW/CCW	115	4.3	Split-Phase	B	Sleeve	EL2034	**4MA30**
Open, Ventilated Flange										
1/7	3450	48M	CCWSE	115	1.8	Permanent Split Capacitor	F	Ball	OBK6002V1	**4GZK2**
1/4	3450	48N	CW/CCW	115	3.4	Split-Phase	B	Sleeve	EL2022	**4MA18**
1/3	3450	48N	CW/CCW	115/230	4.2/2.1	Split-Phase	B	Sleeve	OL2032	**4MA26**
	1725	48N	CW/CCW	115	4.3	Split-Phase	B	Sleeve	OL2034	**4MA20**
Open Dripproof, Nonventilated Flange										
1/3	3450	48N	CW/CCW	115/230	4.2/2.1	Capacitor-Start	B	Sleeve	OL1032D	**4MA22**
1/2	3450	48N	CW/CCW	115/230	6.4/3.2	Capacitor-Start	B	Sleeve	OL1052DS	**4MA24**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Find Replacement Parts, Couplers, and Bearing Assemblies on page 2658.



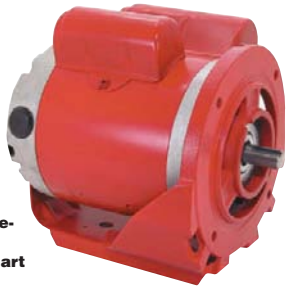
Ring-Mount, Split-Phase



Cradle Base-Mount, Split-Phase



Face-Mount, 3-Phase



Cradle Base-Mount, Capacitor-Start

1- and 3-Phase Water Circulator Motors

Century®

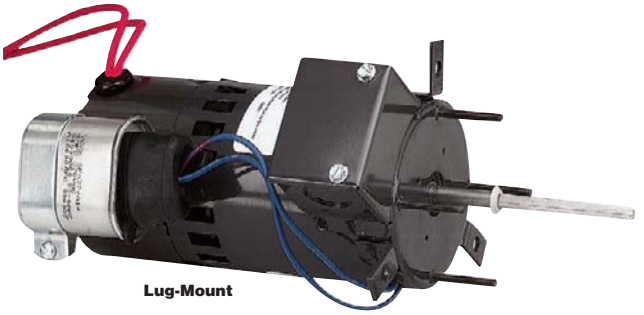
- 1725 rpm
- Enclosure: open dripproof
- 60 Hz
- Insulation: Class B
- Ring dia.: 2½"

These exact replacement motors are fully interchangeable with specific motors on Bell & Gossett, Armstrong, Teel, and Taco brand circulator pumps. Red finish. UL Recognized and CSA Certified.

HP	Frame	Rotation	Thermal Protection	Full Load Amps	Service Factor	Mounting	Bearings	Bolt Circle Dia.	Ring to Ring Center	Max. Ambient Temp.	Mfr. Model	Item No.
Split-Phase, 115VAC												
1/12	48YZ	CCWLE	Auto	2.5	1.75	Ring	Sleeve	—	5 7/8"	50°C	HW20084L	**4HVG5**
	48YZ	CCWLE	Auto	2.0	1.00	Cradle Base	Sleeve	4 5/8"	6 1/16"	50°C	HW20084BL	**5ELL6**
1/8	48Y	CW/CCW	Auto	3.1	1.00	Cradle Base	Sleeve	4 5/8"	5 13/16"	40°C	OBG2004	**4UE22**
	48Z	CCWLE	Auto	2.8	1.40	Ring	Sleeve	—	7"	50°C	HW2004L	**5ELL5**
1/6	48Z	CCWLE	Auto	3.5	1.75	Cradle Base	Sleeve	5"	6 1/16"	50°C	HW2014BL	**5ELL7**
	48Z	CCWLE	Auto	3.5	1.75	Cradle Base	Sleeve	4 5/8"	6 1/16"	50°C	HW2014B1L	**5ELL8**
1/4	48	CWLE	Auto	4.6	1.25	Cradle Base	Ball	5 7/8"	8 3/8"	40°C	HW2024BL	**5ELN0**
	48Z	CW/CCW	Auto	3.5	1.75	Cradle Base	Sleeve	5"	7"	50°C	HW2024B1L	**5DVX0**
1/3	48Z	CWLE	Auto	5.7	1.30	Cradle Base	Ball	5 7/8"	8 15/16"	50°C	HW2034BL	**5ELN1**
Capacitor-Start/Run, 115/208-230VAC												
3/4	56YZ	CW/CCW	Auto	7.4/4.1-3.7	1.50	Cradle Base	Ball	5 13/16"	9 3/16"	50°C	A56B17DRZ40002A2A	**4UE18**
3-Phase, 208-230/460VAC												
3/4	56CZ	CW/CCW	None	2.7-2.8/1.4	1.50	Face	Ball	5 7/8"	—	50°C	H1042L	**5DVU8**

OEM Hot Water Circulator Motor Cross Reference

Grainger Item No.	OEM Motor Found on Page 2658	Armstrong Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model
4UE18	**3CFE3**	811757-002	111047	M80082	M80081	MAGOOD-7606B	169051	MOT259-6	MOT260-6	MOT335-6	MOT925-6	M80077	—	—	—
5DVU8	**—**	831012-083	111049	M80039	M80080	MAGOOG-7606B	169053	MOT236-6	MOT237-6	MOT337-6	MOT922-6	—	—	—	—
5DVX0	**3CFD8**	—	111040	M10532	M95171	MBGOOA-2606B	MOT102-6	MOT309-6	MOT442-6	M95172	—	—	—	—	—
5ELL6	**3CFE7**	805316-010	111034	M09181	M09186	MOT101-5	MOT112-5	MOT113-5	MOT132-5	MOT133-5	M09180	—	—	—	—
5ELL7	**3CFE8**	817025-001	111031	111036	M10711	M10293	M10291	MOT109-6	MOT115-6	MOT300-6	MOT441-6	MOT911-6	M10294	—	—
5ELL8	**3CFE9**	817025-005	111061	M10711	M10293	M10292	—	—	—	—	—	—	—	—	—
5ELN0	**—**	816141-001	169035	M10534	M97185	MAGOOA-2606B	169040	MOT203-6	MOT314-6	—	—	—	—	—	—
5ELN1	**3CFE1**	816141-002	111042	M80121	M80026	MOT107-6	MOT108-6	MOT323-6	MOT325-6	111043	M10740	M10800	M80028	M80033	M80058
5ELN1	**—**	816141-002	169038	M80027	M80059	MAGOOD-3306B	169041	M80062	MOT326-6	MOT937-6	—	—	—	—	—



Lug-Mount

HP	Nameplate RPM	Rotation	Thermal Protection	Voltage	Full Load Amps	Mounting	Shaft Dia.	Shaft Length	Contact Make	Contact Break	Item No.
Shaded Pole, 60 Hz											
1/30	3000	CCWSE	Auto	115/230	1.3/0.65	Stud	1/4"	3 3/4"	2500 rpm	800 rpm	**1D093** *
1/25	3200	CWSE	Auto	115	1.75	Stud	5/16"	1 5/16"	2500 rpm	800 rpm	**3M895**
1/15	3000	CWSE	Auto	115/230	2.2/1.1	Stud	1/4"	3 3/4"	2500 rpm	800 rpm	**1D092** *
	3000	CCWSE	Auto	115/230	2.2/1.1	Stud	1/4"	3 3/4"	2500 rpm	800 rpm	**1D094** *
	3000	CWSE	Auto	208-230	1.1-1.1	Stud	1/4"	3 3/4"	2500 rpm	800 rpm	**1D091** *
Permanent Split Capacitor, 60/50 Hz											
1/9	3000	CW/CCW	Auto	230	0.60	Lug	1/4"	3 3/4"	1800 rpm	800 rpm	**1D089** *

** Includes 5/16" dia. shaft bushing.*

Dayton

Draft Booster Motors

- Enclosure: open air-over
- Studs are 2.85" bolt center, #8-32 studs
- Bearings: ball
- Body dia.: 3.3"
- Max. ambient temp.: 40°C
- Duty: continuous
- Centrifugal safety switch

Motors are required for most gas furnaces and help improve energy efficiency. Auxiliary contacts of SPST centrifugal safety switch are included and rated 120VA pilot duty. No. 1D089 also has 3 holes on 4.36" bolt circle. All models are UL Recognized and CSA Certified.

Split-Phase Open Dripproof Belt-Drive Face-Mount Motors

Dayton® Century®

- Rotation: CW/CCW
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C

NEMA service factors up to 1.40 provide a reserve margin for applications where intermittent overloading or fluctuating (high/low) voltage conditions may occur. Provide direct replacement in many Jenn-Air® and similar commercial kitchen exhaust ventilators. Motors are compatible with 2-speed 115V switch No. 1DGZ9 sold on Grainger.com®. For use in exhaust ventilators in commercial cooking areas and other moderate-starting torque equipment that can be directly connected to a NEMA 56CZ face-mounted motor. UL Recognized and CSA Certified.

Note: Not intended for power transmission applications.



No. 6XH49



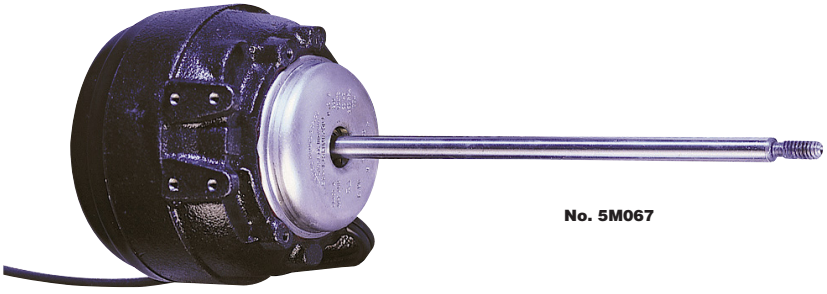
No. 6XH54

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
1-Speed											
1/12	1140	56CZ	None	115	3.02	1.40	5/8"	2 7/16"	Dayton	—	6XH90
	850	56CZ	Auto	115	2.6	1.40	5/8"	2 3/8"	Century	F395	4MB80
	850	56CZ	None	115	3.1	1.40	5/8"	2 7/16"	Dayton	—	6XJ02
1/8	1140	56CZ	Auto	115	3.0	1.40	5/8"	2 1/4"	Century	F270	4MB60
1/6	1725	56CZ	None	115	3.4	1.35	5/8"	2"	Dayton	—	6XH46
	1140	56CZ	Auto	115	3.6	1.35	5/8"	2 1/4"	Century	F271	4MB62
	1140	56CZ	None	115	4.7	1.35	5/8"	2 7/16"	Dayton	—	6XH47
1/4	1725	56CZ	Auto	115	4.8	1.35	5/8"	2 1/4"	Century	F392	4MB68
	1725	56CZ	None	115	8.6	1.35	5/8"	2 1/4"	Dayton	—	6XH49
	1140	56CZ	Auto	115	5.0	1.35	5/8"	2 1/4"	Century	F273	4MB66
	1140	56CZ	None	115	5.5	1.35	5/8"	2 7/16"	Dayton	—	6XH44
	850	56CZ	Auto	115	6.2	1.35	5/8"	2 1/4"	Century	F274	4MB64
1/3	1725	56CZ	Auto	115	5.9	1.35	5/8"	2 1/4"	Century	F394	4MB76
	1725	56CZ	None	115	5.8	1.35	5/8"	2 7/16"	Dayton	—	6XH50
	1140	56CZ	None	115	7.4	1.35	5/8"	2 7/16"	Dayton	—	6XH51
	850	56CZ	Auto	115	8.6	1.00	5/8"	2 1/4"	Century	F276	4MB74
1/2	1725	56CZ	None	115	8.6	1.25	5/8"	2 7/16"	Dayton	—	6XH52
	1140	56CZ	None	115	9.2	1.25	5/8"	2 7/16"	Dayton	—	6XH53
2-Speed											
1/6, 1/15	1140/850	56CZ	None	115	4.2/3.1	1.35	5/8"	2 7/16"	Dayton	—	6XH54
1/4, 1/12	1725/1140	56CZ	Auto	115	5.0/3.0	1.35	5/8"	2 1/4"	Century	F393L	6FJF0
	1725/1140	56CZ	None	115	5.4/2.8	1.35	5/8"	2 7/16"	Dayton	—	6XH84
1/4, 1/10	1140/850	56CZ	None	115	4.6/3.7	1.35	5/8"	2 7/16"	Dayton	—	6XH85
1/3, 1/10	1725/1140	56CZ	Auto	115	5.4/2.3	1.35	5/8"	2 1/4"	Century	F262	4MB72
1/3, 1/9	1725/1140	56CZ	None	115	5.8/4.1	1.35	5/8"	2 7/16"	Dayton	—	6XH86
1/2, 1/7	1725/1140	56CZ	Auto	115	6.8/3.8	1.25	5/8"	2 1/4"	Century	F263	4MB78
1/2, 1/6	1725/1140	56CZ	None	115	7.7/3.9	1.25	5/8"	2 7/16"	Dayton	—	6XH79

Shaded-Pole Unit-Bearing Water Agitator Motors

- Enclosure: totally enclosed
- Rotation: CCW, facing shaft end
- Service factor: 1.0
- Mounting: double foot/rear
- Body dia.: 3 7/8"
- Max. ambient temp.: 40°C
- No. 5M067 has threaded shaft, No. 5M068 has 1" flat on shaft

OEM replacement motors for beverage dispensers manufactured by Cornelius, Lancer, Alco, Wilshire, Booth, K-Way, Multiplex, and Manitowoc beverage. Cast-iron construction with machined 400 Series stainless steel shaft. Eleven #8-36 mounting screws included. UL Recognized and CSA Certified.



No. 5M067

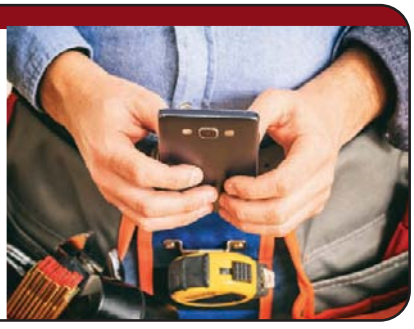
Output Watts	HP	Nameplate RPM	Thermal Protection	Voltage	Full Load Amps	Ins. Class	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
15	1/50	1500	Auto	115	0.60	A	5/16"	7"	ESP-L15EMJR1B1	5M067
15	1/50	1500	Auto	115	0.60	A	5/16"	5"	ESP-L15EMJR1B2	5M068

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.





Cradle-Base Mount



Ring Mount



Rigid-Base Mount



Dayton

Century®

Split-Phase Open Dripproof Belt-Drive Motors

- Rotation: CW/CCW
- Thermal protection: auto, except No. 4RGX1 has no thermal protection
- Insulation: Class B, except Nos. 6K857, 3K617, and 4K259 are Class F
- Max. ambient temp.: 40°C

⅝"-dia. shaft bushing is supplied with all Dayton® motors having ½" x 1½" shafts, and with all A.O. Smith 56Z frame motors. Nos. 3K384 and 3K386 are for attic fans and feature wiring connections on shaft end. Century adjustable ring-mount motors have 2¼"-dia. resilient rings, and come with snap rings to increase diameter to 2½". For use in fans, blowers, whole-house fans, air circulators, and air coolers where a quiet running motor is required. UL Recognized and CSA Certified.

2-SPEED

Dayton® motors have quick-connect terminal board.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Mounting	Bearings	Shaft Dia.	Shaft Length	Brand	Mfr. Stock No.	Item No.	
1-Speed Residential													
¼	1725	48	115	5.3	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K771**	‡
⅓	1725	48	115	5.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K778**	‡
½	1725	48	115	8.0	1.25	Cradle Base	Ball	½"	1½"	Dayton	—	**3K772**	‡
¾	1725	56H	115	11.3	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**1D170**	
1-Speed Commercial													
1/12	1140	48Z	115	2.6	1.40	Cradle Base	Ball	½"	1.88"	Century	BF20086V1	**5DVU6**	
⅛	1140	48Z	115	3.0	1.40	Cradle Base	Ball	½"	1.88"	Century	BF2006L	**4YHW3**	
	850	56	115	4.4	1.40	Cradle Base	Ball	⅝"	1⅞"	Century	BF2008	**4UE66**	
⅙	1725	48	115	3.4	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K551**	‡
	1725	48	115/208-230	3.6/1.7-1.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K613**	‡
	1140	48Z	115	3.6	1.35	Cradle Base	Ball	½"	1⅞"	Century	815V2	**4RGX1**	
¼	1725	48	115	5.4	1.35	Ring	Sleeve	½"	1½"	Century	AR2024	**4UE61**	
	1725	48	115	5.4	1.35	Cradle Base	Sleeve	½"	1½"	Century	GF2024	**4UE76**	
	1725	48	115	5.3	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**5K907**	‡
	1725	48	115	3.2	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K870**	*‡
	1725	48	115/208-230	4.7/2.3-2.2	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K091**	‡
	1725	48Z	115/208-230	4.7/2.2-2.3	1.35	Cradle Base	Ball	½"	1⅞"	Dayton	—	**3ZP92**	‡
	1725	56	115	5.3	1.35	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**5K260**	
	1725	56Z	115	5.3	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**5K977**	
⅓	3450	48Z	115/230	6.3/3.2	1.35	Cradle Base	Ball	½"	2¼"	Century	F344V1	**4UE70**	
	1725	48	115	5.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K384**	‡#
	1725	48	115	6.1	1.35	Rigid Base	Ball	½"	1½"	Century	889A	**4RGX2**	
	1725	48	115	6.0	1.35	Ring	Ball	½"	1½"	Century	AR2034	**4UE60**	
	1725	48	115	5.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K570**	‡
	1725	48	115	4.1	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K871**	*‡
	1725	48YZ	115/208-230	6.6/3.1-3.3	1.35	Cradle Base	Ball	½"	1⅞"	Dayton	—	**4K252**	‡
	1725	48Z	115	6.0	1.35	Cradle Base	Ball	½"	1⅞"	Century	922L	**2JFT8**	
	1725	48Z	115	5.3	1.15	Rigid Base	Ball	½"	2 3/16"	Century	889V2	**4HCH5**	
	1725	56	115	5.8	1.35	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**5K261**	
	1725	56Z	115	5.8	1.00	Cradle Base	Sleeve	½"	1½"	Century	807L	**5DVT5**	
	1725	56Z	115	5.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K030**	
½, ⅐	1725/1140	56	115	6.6	1.25	Cradle Base	Ball	⅝"	1 5/16"	Century	—	**490T56**	
½	1725	48	115	8.0	1.25	Ring	Sleeve	½"	1½"	Century	AR2054	**4UE62**	
	1725	48	115	8.0	1.25	Cradle Base	Sleeve	½"	1½"	Century	GF2054	**4UE85**	
	1725	48	115	7.9	1.25	Cradle Base	Ball	½"	1½"	Dayton	—	**6K589**	‡
	1725	48Z	115/208-230	8.6/4.2-4.3	1.25	Cradle Base	Ball	½"	1⅞"	Dayton	—	**4K259**	‡
	1725	56	115	7.2	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**5K416**	
	1725	56	115/208-230	8.6/4.2-4.3	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**6K729**	
	1725	56Z	115	6.6	1.00	Cradle Base	Ball	½"	1 5/16"	Century	F670A	**4UE86**	
	1725	56Z	115	7.9	1.25	Cradle Base	Ball	½"	1½"	Dayton	—	**5K258**	
	1725	56Z	115	5.3	1.25	Cradle Base	Ball	½"	1½"	Dayton	—	**6K872**	*
	1140	56	115/230	9.2/4.6	1.25	Cradle Base	Ball	⅝"	1⅞"	Century	BF2056D	**4UE95**	
¾	1725/1425	56	115/230	9.6/4.8	1.25	Cradle Base	Ball	⅝"	1 5/16"	Century	—	**490T57**	
	1725	56	115	8.3	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**6K857**	*
	1725	56H	115/208-230	11.2/5.6-5.6	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**3K617**	
2-Speed Commercial													
⅙, 1/18	1725/1140	48Z	115	4.4/2.1	1.35	Cradle Base	Ball	½"	1 5/16"	Century	BGF2014L	**5ELL4**	
¼, 1/12	1725/1140	48	230	2.7/1.3	1.35	Cradle Base	Ball	½"	1 9/16"	Century	927AL	**5ELK8**	
¼, 1/14	1725/1140	48Z	115	4.4/2.2	1.35	Cradle Base	Ball	½"	1 5/16"	Century	927L	**5ELK5**	
¼, ⅛	1725/1140	56Z	115	5.9/3.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K425**	
⅓, 1/9	1725/1140	48	115	5.9/3.4	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K371**	
	1725/1140	48	115	5.9/4.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**3K386**	#
⅓, 1/11	1725/1140	48	115	6.6/2.4	1.00	Cradle Base	Ball	½"	1 9/16"	Century	925AL	**5ELK7**	
⅓, ⅙	1725/1140	56	115	6.1/3.8	1.35	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**5K654**	
⅓, 1/11	1725/1140	56	115	5.0/3.0	1.35	Cradle Base	Ball	⅝"	1⅞"	Century	F390	**4UE93**	
⅓, ⅙	1725/1140	56Z	115	6.1/3.8	1.35	Cradle Base	Ball	½"	1½"	Dayton	—	**6K426**	
⅓, ⅛	1725/1140	56Z	115	5.0/3.0	1.00	Cradle Base	Ball	½"	2"	Century	SGF2034V2	**4UE98**	
⅓, 1/15	1725/850	56Z	115	5.2/3.0	1.00	Cradle Base	Ball	½"	1⅞"	Century	SGF2034V3	**4UE97**	
½, ¼	1725/1140	56	115	9.2/6.0	1.25	Cradle Base	Ball	⅝"	1⅞"	Dayton	—	**6K394**	

Split-phase, capacitor-run. ‡ Notched for 48 or 56 frame mount. # Leads exit shaft end.

Looking For More?

Find **belts and pulleys** on pages 97 to 114.



Century®

Split-Phase Air-Over Belt-Drive Motors

- Rotation: CW/CCW, except No. 2HUB3 is CWLE
- Insulation: Class B
- Body dia.: 48 frame, 5⅝"; 56 frame, 6½"
- Max. ambient temp.: 40°C
- Duty: continuous


Cradle-Base Mount


Rigid-Base Mount

Energy-efficient motors feature extended studs for mounting fan guard on shaft endshield. No. 2HUB3 is a replacement for OEM motors used in Triangle belt-drive exhaust fans. For use in exhaust fans, air circulators, and other air-over fan applications. Open motors are for use in clean, dry, nonhazardous locations. Enclosed motors are for use in dusty, dirty, nonhazardous locations. UL Recognized and CSA Certified.

2-SPEED

Designed specifically for diminishing torque air-moving applications, such as belted or direct-drive fans.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Mounting	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Ring to Ring Center	Stud Pattern	Mfr. Model	Item No.	
1-Speed, Open																
½	1725	56	Auto	115/230	9.6/4.8	1.25	Cradle Base	Ball	⅝"	1⅞"	8 5/16"	7 13/16"	4⅛ x 4⅛"	RB2054DV2	**5ELN2**	
	1725	56Z	Auto	115/230	8.8/4.4	1.25	Cradle Base	Ball	½"	2"	8 5/16"	7 13/16"	4⅛" X 4⅛"	RB2054DV3	**4YHW4**	*
1-Speed, Open Air-Over																
⅛	1725	48	Auto	115	5.1	1.35	Rigid Base	Sleeve	½"	1½"	7 1/16"	—	—	OS2014LA	**4UE67**	
	1725	48	Auto	115	5.1	1.35	Cradle Base	Sleeve	½"	1½"	7⅜"	6 15/16"	—	GF2014	**4UE81**	*†
	1725	48Z	Auto	115	5.1	1.35	Cradle Base	Ball	½"	1⅞"	7¼"	6 15/16"	3⅝ x 3⅝"	RB2014	**4UE73**	†
	1725	56Z	Auto	115	5.1	1.35	Cradle Base	Sleeve	½"	1⅞"	7¾"	6 15/16"	—	RS2014	**4UE68**	*
¼	1725	48	Auto	115/208-230	5.2/2.6-2.6	1.35	Cradle Base	Ball	½"	1½"	7⅝"	7 3/16"	3⅝ x 3⅝"	BF2024	**4UE79**	*†
	1725	48Z	Auto	115	5.4	1.15	Rigid Base	Ball	½"	2¼"	7¾"	—	3⅝ x 3⅝"	OB2024	**4UE77**	
	1725	56Z	Auto	115	5.4	1.35	Cradle Base	Sleeve	½"	1½"	7⅝"	7 3/16"	—	RS2026	**4UE83**	*
	1140	56	Auto	115	5.6	1.35	Cradle Base	Ball	⅝"	1⅞"	8 15/16"	8 7/16"	4⅛ x 4⅛"	RB2026	**4UE69**	
⅓	1725	48	Auto	115/230	6.4/3.2	1.35	Cradle Base	Ball	½"	1½"	7 13/16"	7 7/16"	3⅝ x 3⅝"	BF2034	**4UE63**	*†‡
	1725	56Z	Auto	115/208-230	6.6/3.2-3.3	1.35	Cradle Base	Ball	½"	2¼"	7⅞"	7 7/16"	3⅝ x 3⅝"	BF2034B	**4UE80**	*
½	1725	48	Auto	115/208-230	8.2/4.1	1.25	Cradle Base	Ball	½"	1½"	8 7/16"	7 15/16"	3⅝ x 3⅝"	BF2054	**4UE88**	*†
	1725	48Z	Auto	115/208-230	7.2/4.1	1.25	Cradle Base	Ball	½"	2¼"	8 7/16"	7 15/16"	3⅝ x 3⅝"	BF2054V1	**4UE99**	*
	1725	56Z	Auto	115	8.1	1.15	Rigid Base	Ball	⅝"	2⅜"	8¼"	—	3⅝ x 3⅝"	OS2050	**4UU10**	
¾	1725	56Z	Auto	115	9.6	1.00	Rigid Base	Ball	⅝"	2⅜"	8⅞"	—	3⅝ x 3⅝"	OS2074	**4UU11**	
1-Speed, Open Dripproof																
½	1725	56Z	Auto	115	8.0	1.00	Rigid Base	Ball	½"	1½"	7 1/16"	—	—	OTEB2054AV1	**2HUB3**	
1-Speed, Totally Enclosed Air-Over																
⅛	1725	48Y	Auto	115/208-230	2.8/1.4-1.4	1.00	Cradle Base	Ball	½"	1½"	7⅜"	6¾"	3⅝ x 3⅝"	ARB2014L	**5XRZ7**	†
	1725	48Y	None	115/208-230	2.8/1.4-1.4	1.00	Cradle Base	Ball	½"	1½"	7¼"	6¾"	3⅝ x 3⅝"	ARB2014L2	**5ELK9**	†
	1140	56Z	Manual	115	3.8	1.00	Cradle Base	Sleeve	½"	1⅞"	8 7/16"	7 15/16"	4⅛ x 4⅛"	ARB2016M	**4UB94**	
¼	1725	48Y	Auto	115/208-230	3.3/1.7-1.7	1.00	Cradle Base	Ball	½"	1½"	7 13/16"	7½"	3⅝ x 3⅝"	ARB2024L3	**4HVG6**	†
	1725	48Y	None	115/208-230	3.3/1.7-1.7	1.00	Cradle Base	Ball	½"	1½"	7⅞"	—	3⅝ x 3⅝"	ARB2024L4	**5DVU1**	†
	1725	56Z	Manual	115	4.3	1.00	Cradle Base	Sleeve	½"	1⅞"	8 3/16"	7 11/16"	4⅛ x 4⅛"	ARB2024M	**4UB95**	
	1725	56Z	Auto	115	3.3	1.00	Cradle Base	Ball	½"	1⅞"	7⅞"	7¼"	3⅝ x 3⅝"	ARB2024ML	**4YHW2**	
	1140	48Y	Auto	115/208-230	6.2/2.8-3.1	1.00	Cradle Base	Ball	½"	1½"	8½"	—	3⅝ x 3⅝"	ARB2026SV1	**5DVU2**	†
	1140	48Y	None	115/208-230	6.2/2.8-3.1	1.00	Cradle Base	Ball	½"	1½"	8½"	—	3⅝ x 3⅝"	ARB2026SLV1	**5DVU3**	†
⅓	1725	48Y	Auto	115/208-230	4.9/2.3-2.5	1.00	Cradle Base	Ball	½"	1½"	8¼"	7¾"	3⅝ x 3⅝"	ARB2034L6	**4HCH6**	†
	1725	48Y	None	115/208-230	4.9/2.3-2.5	1.00	Cradle Base	Ball	½"	1½"	8⅜"	—	3⅝ x 3⅝"	ARB2034L2	**5DVU4**	†
	1725	56Z	Auto	115/208-230	7.3/3.8-3.8	1.35	Cradle Base	Ball	½"	1⅝"	8⅜"	—	4⅛ x 4⅛"	ARB2034L5	**5DVU5**	*
	1725	56Z	None	115/208-230	5.6/2.8	1.35	Cradle Base	Ball	½"	1⅝"	8⅜"	—	4⅛ x 4⅛"	ARB2034L4	**4YHW5**	*
	1140	56	None	115/208-230	6.0/3.0-3.0	1.00	Cradle Base	Ball	⅝"	1⅞"	9 9/16"	9 1/16"	4⅛ x 4⅛"	ARB2036SL	**4UY45**	
½	1725/1425	56	Auto	115/208-230	6.8/3.1-3.4	1.30	Cradle Base	Ball	⅝"	1⅞"	8 15/16"	—	4⅛ x 4⅛"	ARB2054L3	**4YHW6**	
½, ¼	1725/1140	56	Auto	115	8.2/5.3	1.00	Cradle Base	Ball	⅝"	2"	9 13/16"	9 5/16"	4⅛ x 4⅛"	ARB2054L1	**5ELL1**	
	1725/1140	56	None	115	8.2/5.3	1.00	Cradle Base	Ball	⅝"	2"	9 13/16"	9 5/16"	4⅛ x 4⅛"	ARB2054L2	**5ELL2**	
½	1725	56	Manual	115	7.1	1.00	Cradle Base	Ball	⅝"	1⅞"	9½"	9 3/16"	4⅛ x 4⅛"	P56S17TRS40002A2A	**4UB97**	
	1725	56	None	115/208-230	6.8/3.1-3.4	1.00	Cradle Base	Ball	⅝"	2"	8 13/16"	8 5/16"	—	ARB2054L4	**5ELL3**	
1-Speed, Totally Enclosed Nonventilated																
⅓	1140	56	Auto	115/208-230	6.0/3.0-3.0	1.00	Cradle Base	Ball	⅝"	1⅞"	9 9/16"	9 1/16"	4⅛ x 4⅛"	ARB2036S	**4UY46**	
2-Speed, Open Dripproof																
½, ⅛	1725/1140	56	Auto	230	5.3/2.4	1.00	Cradle Base	Sleeve	⅝"	1⅞"	8⅜"	7⅞"	4⅛ x 4⅛"	SGF2054HL	**5XTA5**	
2-Speed, Totally Enclosed Air-Over																
¼, ⅛	1725/1140	56Z	Auto	115	4.4/3.0	1.00	Cradle Base	Ball	½"	1⅝"	9⅜"	—	4⅛ x 4⅛"	ARB2024L1	**5DVT9**	*
	1725/1140	56Z	None	115	4.4/3.0	1.00	Cradle Base	Ball	½"	1⅝"	9⅜"	—	4⅛ x 4⅛"	ARB2024L2	**5DVU0**	*
⅓, ⅛	1725/1140	56Z	Auto	115	5.5/4.0	1.00	Cradle Base	Ball	½"	1⅝"	9⅜"	8⅞"	4⅛ x 4⅛"	ARB2034L1	**5XRZ8**	*
	1725/1140	56Z	None	115	5.6/3.2	1.00	Cradle Base	Ball	½"	1⅝"	9⅜"	9"	4⅛ x 4⅛"	ARB2034L3	**5ELL0**	*

**** Includes ⅝" shaft adapter/key. † Cradle base has 48/56 mounting holes. ‡ Usable on 208V at 1.0 service factor.***

High-Temperature Belt-Drive Motors

Dayton®

- Enclosure: open dripproof
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Mounting: cradle/stud
- Bearings: ball
- Max. ambient temp.: 60°C

For use in roof ventilators. Single-speed, 1-phase, continuous-duty with quick-connect terminals. 48Y frames are notched to replace 48 or 56 frame. Steel frame. No. 4VAG8 is capacitor start, capacitor run. UL Recognized and CSA Certified.


No. 4VAF9

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Ring to Ring Center	Stud Pattern	Item No.
Split-Phase												
¼	1725	48Y	115/208-230	5.1/2.4-2.6	1.15	5⅝"	½"	1⅞"	7⅞"	7 7/16"	3⅝" x 3⅝"	**4VAF9**
⅓	1725	48Y	115/208-230	6.6/3.1-3.3	1.15	5⅝"	½"	1⅞"	8 7/16"	8 1/16"	3⅝" x 3⅝"	**4VAG1**
½	1725	56	115/208-230	8.3/4.3-4.2	1.25	6½"	⅝"	1⅞"	8⅞"	8⅜"	4⅛" x 4⅛"	**4VAG2**
¾	1725	56	115/208-230	11.8/6.0-6.1	1.15	6½"	⅝"	1⅞"	7 15/16"	7 7/16"	4¼" x 4¼"	**4VAG3**
Capacitor-Start												
¼	1725	48Y	115/208-230	4.5/2.2-2.3	1.15	5⅝"	½"	1⅞"	7⅞"	7⅜"	3⅝" x 3⅝"	**4VAG4**
⅓	1725	48Y	115/208-230	5.9/2.8-3.0	1.15	5⅝"	½"	1⅞"	9 1/16"	8 7/16"	3⅝" x 3⅝"	**4VAG5**
½	1725	56	115/208-230	8.2/4.1	1.15	5⅝"	⅝"	1⅞"	8½"	8"	3⅝" x 3⅝"	**4VAG6**
¾	1725	56	115/208-230	11.1/5.5-5.5	1.25	6½"	⅝"	1⅞"	9½"	9"	4¼" x 4¼"	**4VAG7**
Capacitor-Start/Run												
1	1725	56	115/208-230	7.8/4.4-4.0	1.25	6½"	⅝"	1⅞"	10½"	9 15/16"	4⅛" x 4⅛"	**4VAG8**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Open Dripproof Capacitor-Start Belt-Drive Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Cradle bases
- Max. ambient temp.: 40°C

For use with belt-drive applications, including furnace blowers, exhaust fans, industrial blowers, and ventilators. 2-speed motors are for use in diminishing-torque air-moving applications such as belt- or direct-drive fans and blowers.

Nos. 4UB57 and 4UB98 include ⅝"-key shaft adapter. No. 4UB57 is notched for 48 or 56 NEMA frame mount. UL Recognized and CSA Certified.



Cradle-Base Mount



Rigid-Base Mount

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Mounting	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1-Speed, Century														
½	3450	48Y	115/208-230	8.0/3.8-4.0	1.25	B	Cradle Base	Ball	5 ⅜ in	½ in	1 ½ in	8 7/16 in	B590	**4UB57** †
	1725	56	115/208-230	8.2/4.0-4.1	1.25		Cradle Base	Ball	6 9/16 in	⅝ in	1 ⅞ in	9 ½ in	C412V2	**490T53**
¾	3450	56	115/208-230	9.2/4.7-4.6	1.25	A	Cradle Base	Sleeve	6 ½ in	⅝ in	1 ⅞ in	9 3/16 in	B642	**4LY81**
	1725	56	115/208-230	10.4/5.5-5.2	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 ½ in	C426V2	**4UB63** ‡
1	3450	56	115/208-230	12.0/6.6-6.0	1.25	A	Cradle Base	Sleeve	6 ½ in	⅝ in	1 ⅞ in	9 9/16 in	B701	**4LY83**
	3450	56	115/208-230	12.0/6.6-6.0	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 9/16 in	B589	**4UB65**
	1725	56	115/208-230	13.2/6.6-6.6	1.25		Cradle Base	Ball	6 9/16 in	⅝ in	1 15/16 in	10 in	C692V1	**490T55**
	1725	56Z	115/208-230	12.6/6.2-6.3	1.15	B	Cradle Base	Ball	6 ½ in	⅝ in	2 5/16 in	9 9/16 in	C523V1	**4UB98** ‡
1 ½	3450	56	115/208-230	16.0/8.6-8.0	1.2	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 5/16 in	B722L	**2LTA1**
2	1725	56H	115/208-230	19.6/9.8	1.15	B	Resilient Base	Ball	6 ⅝ in	⅝ in	1 ⅞ in	11 in	RB1204AV1	**4RGW9** #
1-Speed, Dayton														
⅓	1725	48Z	115/230	5.4/2.7	1.35	B	Cradle Base	Ball	5 ⅜ in	½ in	1 ⅞ in	9 ⅛ in	6K490	**6K490** *
½	1725	56	115/230	7.7/3.8	1.25	B	Cradle Base	Ball	—	⅝ in	1 ⅞ in	9 ⅜ in	3K199	**3K199** *
	1725	48Z	115/230	8.2/4.1	1.25	B	Cradle Base	Ball	5 ⅜ in	½ in	1 ⅞ in	8 ⅝ in	6K965	**6K965**
	1725	56H	115/208-230	7.7/3.7-3.8	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 ⅞ in	24C180	**24C180**
¾	1725	56	115-230/110-220	9.8/5.0	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	8 ⅞ in	6K376	**6K376** *
	1725	56H	115/208-230	9.8/5.2-5.0	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 ⅞ in	24C181	**24C181**
1	1725	56	115/208-230	13.6/6.9-6.9	1.15	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 ⅞ in	6K321	**6K321**
	1725	56H	115/208-230	13.6/6.9-6.9	1.15	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 ⅜ in	24C182	**24C182**
2-Speed, Century														
½ to ¼	1725/1140	56	115	6.8/4.8	1.0	A	Cradle Base	Sleeve	6 ½ in	⅝ in	1 ⅞ in	9 9/16 in	C678V1	**4LY80**
½; ⅓	1725/1140	56	115	6.9/4.1	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	9 ½ in	A56C64DRS40001A2A	**4UB50** ‡
¾; ⅓	1725/1140	56	115	8.6/6.1	1.0	A	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 in	A56C64DRS40003A2A	**4LY85**
¾ to ⅓	1725/1140	56	115	10.0/4.0	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 5/16 in	C533	**4UB51** ‡
¾ to ¼	1725/1140	56	208-230	5.0-5.0/2.7-2.8	1.25	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 5/16 in	C534V1	**4UB52** ‡
¾ to ⅓	1725/1140	56	230	5.0/3.2	1.0	A	Cradle Base	Sleeve	6 ½ in	⅝ in	1 ⅞ in	10 5/16 in	C742V1	**4LY87**
1 to ⅓	1725/1140	56	115	12.4/7.8	1.15	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 13/16 in	C471A	**4UB53** ‡
1; ⅓	1725/1140	56	208-230	6.3-6.0/3.3-3.8	1.0	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 13/16 in	C472V1	**4LY89** ‡
1 to ⅓	1725/1140	56	208-230	6.4-6.0/3.4-3.5	1.15	B	Cradle Base	Ball	6 ½ in	⅝ in	1 ⅞ in	10 13/16 in	C472A	**4UB55** ‡

** 60/50 Hz. † 3⅝" x 3⅝" stud mounting pattern. ‡ 4⅛" x 4⅛" stud mounting pattern. # Capacitor-start, capacitor-run.*

3-Phase Belt-Drive Motors

- Rotation: CW/CCW
- Insulation: Class B, except No. 10K089 is Class F
- Bearings: ball
- Max. ambient temp.: 40°C

Use with pumps, industrial fans, blowers, and exhaust fans. UL Recognized and CSA Certified.



Cradle-Base Mount, Open Dripproof



Cradle-Base Mount, Totally Enclosed Nonventilated

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Mounting	Shaft Dia.	Shaft Length	Length Less Shaft	Stud Pattern	Brand	Mfr. Model	Item No.
1-Speed, Open														
1	1725	56H	Auto	208-230/460	3.2-3.0/1.5	1.15	Rigid Base	⅝"	1⅞"	12⅛"	4¾6" x 4¾6"	Century	H882LES	**54VH98**
1½	1725	56H	Auto	208-230/460	4.4-4.4/2.2	1.15	Rigid Base	⅝"	1⅞"	12⅛"	4¾6" x 4¾6"	Century	H884LES	**54VH96**
1-Speed, Open Dripproof														
⅓	1725	56	None	200-230/460	1.4-1.6/0.80	1.35	Cradle Base	⅝"	2"	9⅛"	—	Century	H262V2	**10K091**
½	3450	56	Auto	200-230/460	1.9-2.0/1.0	1.60	Cradle Base	⅝"	1⅞"	10⅝16"	—	Century	H840	**4MA38** †
	1725	56	None	200-230/460	1.8-2.0/1.0	1.25	Cradle Base	⅝"	2"	9⅛"	4⅛" x 4⅛"	Century	H275V2	**12N863**
¾	3450	56	Auto	200-230/460	2.8-2.8/1.4	1.50	Cradle Base	⅝"	1⅞"	10 13/16"	4⅛" x 4⅛"	Century	H841V1	**4LY72** †
	1750	56	Auto	200-230/460	3.0-3.2/1.6	1.25	Cradle Base	⅝"	1 15/16"	9½"	—	Century	H851V3	**429J47**
	1725	56	Auto	200-230/460	3.0-3.2/1.6	1.25	Cradle Base	⅝"	1 15/16"	9"	—	Century	H582V3	**490T59**
1	3450	56H	Auto	200-230/460	3.5-3.6/1.8	1.40	Cradle Base	⅝"	1⅞"	10 13/16"	4⅛" x 4⅛"	Century	H842V1	**4LY73** †
	1725	56	None	200-230/460	3.4-3.6/1.8	1.25	Cradle Base	⅝"	1 15/16"	9⅛"	4⅛" x 4⅛"	Century	H615V2	**6PWA6**
	3450	56H	Auto	200-230/460	4.7-4.6/2.3	1.30	Cradle Base	⅝"	1⅞"	11 1/16"	4⅛" x 4⅛"	Century	H843V1	**4LY74** †
1½	1725	56H	None	200-230/460	5.0-4.8/2.4	1.20	Cradle Base	⅝"	1⅞"	10"	—	Century	56T17DRS40003A2	**6PWA7**
	1725	56H	Auto	200-230/460	5.0-5.6/2.8	1.15	Cradle Base	⅝"	1 15/16"	11"	4⅛" x 4⅛"	Century	H853V2	**14L703**
	3450	56H	Auto	200-230/460	6.0-5.8/2.9	1.20	Cradle Base	⅝"	1⅞"	12⅛"	4⅛" x 4⅛"	Century	BK3202L	**2LTA2**
2	3450	56H	Auto	200-230/460	6.0-5.8/2.9	1.20	Cradle Base	⅝"	1⅞"	12 1/16"	—	Century	H844	**4MA40** †
	1725	56H	Auto	208-230/460	6.0/3.0	1.20	Rigid Base	⅝"	1⅞"	12⅝"	4¾6" x 4¾6"	Century	H1045LES	**54VH97**
	1725	56H	Auto	208-230/460	5.8-5.8/2.9	1.15	Cradle Base	⅝"	1⅞"	11"	4⅛" x 4⅛"	Century	RB3204A	**4LY71** *†
3	1725	56HZ	Auto	200-230/460	9.4-8.9/4.5	1.15	Rigid Base	⅞"	2 5/16"	12¼"	5 13/16" x 5 13/16"	Century	H887L	**10K089**
5	3450	56HZ	Auto	208-230/460	13.4-13.2/6.6	1.15	Cradle Base	⅞"	2¼"	12 5/16"	4⅛" x 4⅛"	Century	H1039L	**3DGD1** †
1-Speed, Totally Enclosed Air-Over														
1	1725	56	None	200-230/460	3.3-3.4/1.7	1.15	Cradle Base	⅝"	1 15/16"	9½"	4⅛" x 4⅛"	Century	H1031L	**6PWA5**
½	1725	56	None	208-230/460	2.3-2.2/1.1	1.00	Cradle Base	⅝"	1⅞"	8 3/16"	4¾6" x 4¾6"	Marathon	5K42HN4128	**403T97**
1-Speed, Totally Enclosed Nonventilated														
¼	1725	48Y	None	200-230/460	1.4-1.5/0.75	1.00	Cradle Base	½"	1½"	6⅞"	3⅝" x 3⅝"	Century	H1025A	**4EAH1** *
	1140	56	None	200-230/460	1.3-1.2/0.60	1.15	Cradle Base	⅝"	1⅞"	8 3/16"	4⅛" x 4⅛"	Century	H1026	**4LY49**
⅓	1725	48Y	None	208-230/460	1.2-1.2/0.60	1.00	Cradle Base	½"	1½"	7½"	4¼" x 4¼"	Century	H1027A	**5DVU7** *
½	1140	56	None	200-230/460	2.1-2.0/1.0	1.15	Cradle Base	⅝"	1⅞"	9 3/16"	4⅛" x 4⅛"	Century	H1029	**4LY52**
¾	1725	56	None	200-230/460	2.3-2.4/1.2	1.15	Cradle Base	⅝"	2"	9½"	4⅛" x 4⅛"	Century	H1030L	**6FJF1**
2-Speed, Open Dripproof														
½, ¼	1745/1140	56Y	None	200-230	1.8-1.9/1.1-1.2	1.25	Cradle Base	⅝"	1⅞"	9 3/16"	4⅛" x 4⅛"	Century	H655V1	**5XTA0**
	1745/1140	56Y	None	460	0.95/0.60	1.25	Cradle Base	⅝"	1⅞"	9 3/16"	4⅛" x 4⅛"	Century	H656V1	**5XTA1**
¾, ⅓	1745/1140	56	None	460	1.3/0.82	1.25	Cradle Base	⅝"	1⅞"	8¾"	4⅛" x 4⅛"	Century	H658V1	**5XTA2**
	1725/1140	56Y	None	200-230	2.5-2.6/1.5-1.6	1.25	Cradle Base	⅝"	1⅞"	8¾"	4⅛" x 4⅛"	Century	H657V1	**6FJF2**
1, 1½	1745/1140	56	None	200-230	3.2-3.4/1.8-2.2	1.15	Cradle Base	⅝"	1⅞"	9⅛"	4⅛" x 4⅛"	Century	H717V1	**5XTA3**
	1745/1140	56Y	None	460	1.7/1.1	1.15	Cradle Base	⅝"	1⅞"	9⅛"	4⅛" x 4⅛"	Century	H718V1	**5XTA4**
1½, ¾	1745/1140	56H	None	200-230	4.8-4.6/2.8-2.7	1.15	Cradle Base	⅝"	1⅝"	10 13/16"	4⅛" x 4⅛"	Century	H1034V1	**5XRZ9**

** 60/50 Hz. † Horizontal mounting only.*

Motor Start Capacitors

- 60/50 Hz
- Temp. range: -40° to 65°C (-40° to 149°F)

Electrolytic, nonpolarized capacitors are designed for normal intermittent service on single-phase AC motor starting circuits. Round, molded cases protect the capacitor from oil, dirt, moisture, and grease. Round shape. 60/50 Hz. UL Recognized.



MFD Rating	Dia.	Overall Height	Item No.
110-125VAC			
36-43	1 7/16"	2 3/4"	**6FLK7**
56-75	1 7/16"	2 3/4"	**6FLL2**
72-88	1 7/16"	2 3/4"	**6FLL6**
88-108	1 7/16"	2 3/4"	**2MDN9**
108-130	1 7/16"	2 3/4"	**2MDR1**
124-149	1 7/16"	2 3/4"	**6FLK1**
130-156	1 7/16"	2 3/4"	**2MDR2**
145-174	1 7/16"	2 3/4"	**2MDR3**
161-193	1 7/16"	2 3/4"	**2MDR4**
189-227	1 7/16"	2 3/4"	**2MDR5**
200-240	1 7/16"	2 3/4"	**6FLK3**
216-259	1 7/16"	2 3/4"	**2MDR6**
216-259	1 7/16"	3 3/8"	**2MDR7**
233-280	1 7/16"	2 3/4"	**2MDR8**
233-280	1 7/16"	3 3/8"	**2MDR9**
243-292	1 7/16"	2 3/4"	**2MDT1**
243-292	1 7/16"	3 3/8"	**2MDT2**
270-324	1 7/16"	3 3/8"	**2MDT3**
270-324	1 7/16"	2 3/4"	**6FLK4**
300-360	1 7/16"	4 3/8"	**6FLK5**
324-388	1 7/16"	2 3/4"	**2MDT4**
324-388	1 13/16"	3 3/8"	**2MDT5**
324-388	1 7/16"	3 3/8"	**2MDT6**
340-408	1 13/16"	3 3/8"	**2MDT7**
340-408	1 7/16"	3 3/8"	**6FLK6**
378-455	1 13/16"	3 3/8"	**2MDT8**
378-455	1 7/16"	3 3/8"	**6FLK8**
400-480	1 13/16"	3 3/8"	**2MDT9**
400-480	1 7/16"	3 3/8"	**6FLK9**
430-516	1 13/16"	3 3/8"	**2MDU1**
430-516	1 7/16"	3 3/8"	**6FLL0**
460-552	1 7/16"	3 3/8"	**2MDU2**
460-552	1 13/16"	3 3/8"	**2MDU3**
460-552	1 13/16"	4 3/8"	**2MDU4**
540-648	1 13/16"	4 3/8"	**2MDU5**
540-648	1 13/16"	3 3/8"	**6FLL1**
590-708	1 13/16"	4 3/8"	**2MDU6**
590-708	1 13/16"	3 3/8"	**6FLL3**
645-774	1 13/16"	4 3/8"	**4UHC7**
708-850	1 13/16"	4 3/8"	**2MDU7**
708-850	2 1/16"	4 3/8"	**6FLL4**
708-850	1 13/16"	3 3/8"	**6FLL5**
800-960	1 13/16"	3 3/8"	**6FLL7**
815-978	1 13/16"	4 3/8"	**2MDU8**
829-995	1 13/16"	4 3/8"	**6FLL8**
829-995	2 1/16"	4 3/8"	**6FLL9**
850-1020	2 1/16"	4 3/8"	**6FLN0**
1000-1200	2 1/16"	4 3/8"	**2MDU9**
1290-1548	2 1/16"	4 3/8"	**6FLK2**

MFD Rating	Dia.	Overall Height	Item No.
165VAC			
145-174	1 7/16"	3 3/8"	**6FLU6**
161-193	1 7/16"	3 3/8"	**6FLU7**
189-227	1 7/16"	3 3/8"	**2MEP8**
216-259	1 13/16"	3 3/8"	**6FLU8**
233-280	1 13/16"	3 3/8"	**6FLU9**
243-292	1 13/16"	3 3/8"	**6FLV0**
270-324	1 13/16"	3 3/8"	**2MEP9**
340-408	1 13/16"	3 3/8"	**6FLV1**
378-455	1 13/16"	4 3/8"	**6FLV2**
400-480	1 13/16"	3 3/8"	**2MER1**
540-648	1 13/16"	3 3/8"	**6FLV3**
710-850	2 1/16"	3 3/8"	**6FLV4**
710-850	2 1/16"	4 3/8"	**6FLV5**
810-972	2 1/16"	4 3/8"	**6FLV6**
220-250VAC			
21-25	1 7/16"	2 3/4"	**12N969**
25-30	1 7/16"	2 3/4"	**6FLW2**
30-36	1 7/16"	2 3/4"	**6FLW5**
36-43	1 7/16"	2 3/4"	**6FLW6**
43-53	1 7/16"	2 3/4"	**2MER2**
43-53	1 7/16"	3 3/8"	**2MER3**
53-64	1 7/16"	3 3/8"	**2MER4**
53-64	1 7/16"	2 3/4"	**2MER5**
64-77	1 7/16"	2 3/4"	**2MER6**
64-77	1 7/16"	3 3/8"	**2MER7**
72-88	1 13/16"	3 3/8"	**6FLW8**
88-108	1 13/16"	3 3/8"	**2MER8**
105-126	2 1/16"	3 3/8"	**6FLV7**
108-130	1 13/16"	3 3/8"	**2MER9**
124-149	1 13/16"	4 3/8"	**2MET1**
130-158	1 13/16"	3 3/8"	**2MET2**
130-158	1 13/16"	4 3/8"	**2MET3**
145-174	1 13/16"	3 3/8"	**2MET4**
145-174	2 1/16"	3 3/8"	**2MET5**
161-193	2 1/16"	3 3/8"	**2MET6**
189-227	2 1/16"	3 3/8"	**2MET7**
189-227	2 1/16"	4 3/8"	**6FLV8**
216-259	2 1/16"	4 3/8"	**2MET8**
216-259	2 1/16"	3 3/8"	**6FLV9**
233-280	2 1/16"	4 3/8"	**2MET9**
233-280	2 1/16"	3 3/8"	**6FLW0**
243-292	2 1/16"	3 3/8"	**6FLW1**
270-324	2 1/16"	4 3/8"	**2MEU1**
270-324	2 1/16"	3 3/8"	**6FLW3**
280-336	2 1/16"	4 3/8"	**6FLW4**
320-384	2 1/16"	4 3/8"	**2MEU2**
340-408	2 1/16"	4 3/8"	**2MEU3**
378-455	2 9/16"	4 3/8"	**2MEU4**
400-480	2 1/16"	4 3/8"	**2MEU5**
430-516	2 9/16"	4 3/8"	**2MEU6**
630-750	2 9/16"	4 3/8"	**6FLW7**

MFD Rating	Dia.	Overall Height	Item No.
330VAC			
21-25	1 7/16"	3 3/8"	**6FLU1**
25-30	1 7/16"	3 3/8"	**6FLU3**
30-36	1 7/16"	3 3/8"	**6FLU4**
43-53	1 13/16"	3 3/8"	**6FLU5**
53-64	1 13/16"	3 3/8"	**2MEL2**
64-77	1 13/16"	3 3/8"	**2MEL3**
72-88	1 13/16"	3 3/8"	**2MEL4**
72-88	2 1/16"	3 3/8"	**2MEL5**
88-108	2 1/16"	3 3/8"	**2MEL6**
108-130	2 1/16"	4 3/8"	**2MEL7**
108-130	2 1/16"	3 3/8"	**2MEL8**
124-149	2 1/16"	4 3/8"	**2MEL9**
130-158	2 1/16"	4 3/8"	**2MEP1**
135-162	2 1/16"	4 3/8"	**6FLT8**
145-174	2 1/16"	4 3/8"	**2MEP2**
145-174	2 9/16"	4 3/8"	**6FLT9**
161-193	2 1/16"	4 3/8"	**2MEP3**
189-227	2 9/16"	4 3/8"	**2MEP4**
189-227	2 1/16"	4 3/8"	**6FLU0**
216-259	2 9/16"	4 3/8"	**2MEP5**
216-259	2 1/16"	4 3/8"	**6FLU2**
270-324	2 9/16"	4 3/8"	**2MEP6**
300-360	2 9/16"	4 3/8"	**2MEP7**

Motor Start Capacitor Accessories

Mounting Brackets—Use in conjunction with end caps to provide secure and electrically safe mounting.

End Caps—Provide weatherproofing for lead connections and facilitate mounting capacitor in bracket. With bottom lead hole, leads exit through bracket; with top lead hole, leads exit opposite bracket.

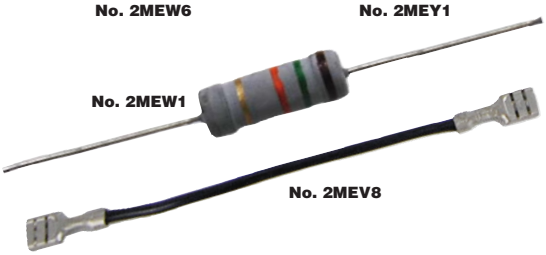
Resistors—Bleed off electrical charge when soldered across capacitor terminals. Prevent contact-point arcing and welding under rapid cycling.

Jumper Wire Sets—Connect 2 capacitors in series or parallel.


No. 2MEW3


No. 2MEW6


No. 2MEY1


No. 2MEW1

No. 2MEV8

Type	Item No.	Pkg. Qty.
Mounting Brackets		
2 3/4" Length	**2MEW5**	5
3 3/8" Length	**2MEW4**	5
4 3/8" Length	**2MEW3**	5
End Caps (Bottom Lead Hole)		
1 7/16" Diameter with Bottom Lead Hole	**2MEW6**	5
1 13/16" Diameter with Bottom Lead Hole	**2MEW7**	5
2 1/16" Diameter with Bottom Lead Hole	**2MEW8**	5
2 9/16" Diameter with Bottom Lead Hole	**2MEW9**	5

Type	Item No.	Pkg. Qty.
End Caps (Top Lead Hole)		
1 7/16" Diameter with Top Lead Hole	**2MEY1**	5
1 13/16" Diameter with Top Lead Hole	**2MEY2**	5
2 1/16" Diameter with Top Lead Hole	**2MEY3**	5
2 9/16" Diameter with Top Lead Hole	**2MEY4**	5
Resistors		
2 Watt, 15,000 Ohm	**2MEW1**	10
2 Watt, 15,000 Ohm With 1/4" Female Terminals	**2MEW2**	10
Jumper Wire Sets		
Includes 4" Wire with 1/4" Female Terminals	**2MEV8**	10
Includes 6" Wire with 1/4" Female Terminals	**2MEV9**	10

Motor Run Capacitors

Dayton

- Temp. range: -40° to 85°C (-40° to 185°F)
- 60/50 Hz

Aluminum, hermetically sealed capacitors improve the electrical performance of motors, air conditioners, and refrigeration equipment. PCB-free, the capacitors feature an aluminum case with steel cover and ¼" male quick-connect terminals with plastic insulators. Protected to 10,000 AFC. UL Recognized.



Oval, Motor Run
No. 2MDV2



Round, Motor Run
No. 2MEC1

OVAL RUN CAPACITORS

MFD Rating	370VAC H	370VAC Overall W	370VAC D	370VAC Item No.	440VAC H	440VAC Overall W	440VAC D	440VAC Item No.	
Motor Run									
2	2 1/16"	2"	1 1/4"	**2MDV1**	2 3/4"	2"	1 1/4"	**4UHA5**	
3	2 1/16"	2"	1 1/4"	**2MDV2**	2 1/16"	2"	1 1/4"	**4UHA6**	
4	2 13/16"	2"	1 1/4"	**2MDV3**	2 1/16"	2"	1 1/4"	**2MDY4**	
5	2 13/16"	2"	1 1/4"	**2MDV4**	2 1/16"	2"	1 1/4"	**2MDY5**	
6	2 1/16"	2"	1 1/4"	**2MDV5**	2 1/16"	2"	1 1/4"	**2MDY6**	
7.5	2 13/16"	2"	1 1/4"	**2MDV6**	2 1/16"	2"	1 1/4"	**2MDY7**	
10	3 3/8"	2"	1 1/4"	**2MDV7**	3"	2"	1 1/4"	**2MDY8**	
12.5	3 5/16"	2"	1 1/4"	**2MDV8**	3 1/2"	2"	1 1/4"	**4UHA7**	
15	3 35/64"	2"	1 1/4"	**2MDV9**	3 1/2"	2"	1 1/4"	**2MDY9**	
17.5	3 5/16"	2"	1 1/4"	**2MDW1**	3 1/2"	2"	1 1/4"	**2MDZ1**	
20	3 1/2"	2"	1 1/4"	**2MDW2**	2 3/4"	2"	1 3/4"	**2MDZ2**	
25	3 1/2"	2 3/4"	1 3/4"	**2MDW3**	4 1/2"	2 3/4"	1 3/4"	**2MDZ3**	
25	—	—	—	**—**	4 5/8"	2 3/4"	1 3/4"	**6FLN7**	*
30	3 1/2"	2 3/4"	1 3/4"	**2MDW4**	4 1/2"	2 3/4"	1 3/4"	**2MDZ4**	
35	3 7/8"	2 3/4"	1 3/4"	**2MDW5**	4 1/2"	2 3/4"	1 3/4"	**2MDZ5**	
40	4 1/16"	2 3/4"	1 3/4"	**2MDW6**	4 1/16"	2 3/4"	1 3/4"	**2MDZ6**	
45	4 1/2"	2 3/4"	1 3/4"	**2MDW7**	4 1/2"	2 3/4"	1 3/4"	**2MDZ7**	
50	4 1/2"	2 3/4"	1 3/4"	**2MDW8**	4 1/2"	2 3/4"	1 3/4"	**2MDZ8**	
55	5 1/4"	2 3/4"	1 3/4"	**2MDW9**	5 7/16"	2 3/4"	1 3/4"	**2MDZ9**	
60	5 7/16"	2 3/4"	1 3/4"	**2MDX1**	5 7/16"	2 3/4"	1 3/4"	**2MEA1**	
70	5 5/8"	2 3/4"	1 3/4"	**6FLN1**	5 11/16"	2 3/4"	1 3/4"	**6FLN8**	
80	5 5/8"	2 3/4"	1 3/4"	**2MDX2**	5 5/8"	2 3/4"	1 3/4"	**4UHA8**	
Dual Run									
15/3	3 3/8"	2 3/4"	1 3/4"	**6FLN2**	—	—	—	**—**	
15/4	3 3/8"	2 3/4"	1 3/4"	**6FLN3**	—	—	—	**—**	
15/5	3 7/16"	2 3/4"	1 3/4"	**2MDX3**	3 7/16"	2 3/4"	1 3/4"	**6FLN9**	
17.5/5	3 3/8"	2 3/4"	1 3/4"	**2MDX4**	—	—	—	**—**	
20/5	4 5/8"	2 3/4"	1 3/4"	**2MDX5**	—	—	—	**—**	
25/5	4 3/4"	2 3/4"	1 3/4"	**2MDX6**	4 5/8"	2 3/4"	1 3/4"	**2MEA2**	
30/5	4 11/16"	2 3/4"	1 3/4"	**2MDX7**	4 5/8"	2 3/4"	1 3/4"	**2MEA3**	
30/7.5	4 5/8"	2 3/4"	1 3/4"	**4UGZ8**	4 5/8"	2 3/4"	1 3/4"	**4UHA9**	
35/3	4 5/8"	2 3/4"	1 3/4"	**6FLN5**	4 5/8"	2 3/4"	1 3/4"	**6FLP0**	
35/4	4 5/8"	2 3/4"	1 3/4"	**6FLN6**	—	—	—	**—**	
35/5	4 3/4"	2 3/4"	1 3/4"	**2MDX8**	4 5/8"	2 3/4"	1 3/4"	**2MEA4**	
35/7.5	5 1/4"	2 3/4"	1 3/4"	**2MDX9**	5 1/4"	2 3/4"	1 3/4"	**4UHC1**	
35/10	5 1/4"	2 3/4"	1 3/4"	**6FLN4**	—	—	—	**—**	
40/5	5 1/4"	2 3/4"	1 3/4"	**2MDY1**	5 1/4"	2 3/4"	1 3/4"	**2MEA5**	
40/7.5	5 1/4"	2 3/4"	1 3/4"	**2MDY2**	5 1/4"	2 3/4"	1 3/4"	**4UHC2**	
40/10	5 1/4"	2 3/4"	1 3/4"	**12N962**	—	—	—	**—**	
45/5	5 1/4"	2 3/4"	1 3/4"	**2MDY3**	5 1/4"	2 3/4"	1 3/4"	**2MEA6**	
45/7.5	—	—	—	**—**	5 1/4"	2 3/4"	1 3/4"	**12N964**	
45/10	5 1/4"	2 3/4"	1 3/4"	**12N963**	—	—	—	**—**	
50/5	5 5/8"	2 3/4"	1 3/4"	**4UGZ9**	5 11/16"	2 3/4"	1 3/4"	**2MEA7**	
55/5	6 3/8"	2 3/4"	1 3/4"	**4UHA1**	6 7/16"	2 3/4"	1 3/4"	**2MEA8**	
55/7.5	6 3/8"	2 3/4"	1 3/4"	**4UHA2**	—	—	—	**—**	
55/10	—	—	—	**—**	6 3/8"	2 3/4"	1 3/4"	**6FLP1**	
60/5	6 3/8"	2 3/4"	1 3/4"	**4UHA3**	6 7/16"	2 3/4"	1 3/4"	**2MEA9**	
60/7.5	6 3/8"	2 3/4"	1 3/4"	**4UHA4**	—	—	—	**—**	

ROUND RUN CAPACITORS

MFD Rating	370VAC Dia.	370VAC Overall H	370VAC Item No.	440VAC Dia.	440VAC Overall H	440VAC Item No.
Motor Run						
5	1 9/16"	3 5/16"	**2MEC1**	1 9/16"	2 11/16"	**2MEG4**
6	1 9/16"	2 11/16"	**6FLP3**	—	—	**—**
7.5	1 9/16"	2 11/16"	**2MEC2**	1 9/16"	3"	**2MEG5**
10	1 9/16"	3"	**2MEC3**	1 9/16"	3"	**2MEG6**
12.5	1 9/16"	3"	**2MEC4**	1 9/16"	3"	**2MEG7**
15	1 9/16"	3"	**2MEC5**	1 9/16"	3"	**2MEG8**
17.5	1 9/16"	3"	**2MEC6**	1 9/16"	3 5/16"	**2MEG9**
20	1 9/16"	3 5/16"	**2MEC7**	1 9/16"	3 5/16"	**2MEH1**
22.5	1 3/4"	3 5/8"	**39P226**	—	—	**—**
25	1 3/4"	3 5/16"	**2MEC8**	1 3/4"	4"	**2MEH2**
30	1 15/16"	4 5/8"	**2MEC9**	1 15/16"	4"	**2MEH3**
35	1 15/16"	3 1/2"	**2MEE1**	1 15/16"	4 1/16"	**2MEH4**
40	1 15/16"	4 1/16"	**2MEE2**	1 15/16"	4 1/16"	**2MEH5**
45	1 15/16"	4 1/16"	**2MEE3**	1 15/16"	4 1/16"	**2MEH6**
50	1 15/16"	4 1/16"	**2MEE4**	1 15/16"	5 1/16"	**2MEH7**
55	1 15/16"	4 1/16"	**4UHC3**	1 15/16"	5 1/16"	**2MEH8**
60	2 3/8"	4 1/16"	**2MEE5**	2 3/8"	5 1/16"	**2MEH9**
70	2 3/8"	5 1/2"	**6FLP4**	2 3/8"	5 1/16"	**6FLR8**
80	2 3/8"	4 7/16"	**2MEE6**	2 3/8"	5 1/4"	**2MEJ1**
100	2 3/8"	5 5/8"	**6FLP2**	—	—	**—**
Dual Run						
20/5	—	—	**—**	2"	4 5/8"	**4UHC6**
25/3	2"	4 5/8"	**6FLP5**	—	—	**—**
25/4	2"	4 5/8"	**12N967**	—	—	**—**
25/5	2"	4 5/8"	**2MEE7**	2"	4 5/8"	**2MEJ2**
25/7.5	—	—	**—**	2"	4 5/8"	**6FLR9**
30/3	2"	4 5/8"	**6FLP6**	2"	4 5/8"	**6FLT0**
30/4	2"	4 5/8"	**6FLP7**	—	—	**—**
30/5	2"	4 5/8"	**2MEE8**	2"	4 5/8"	**2MEJ3**
30/7.5	2"	4 5/8"	**4UHC4**	2"	4 5/8"	**2MEJ4**
35/3	2"	4 13/16"	**6FLP8**	2"	4 13/16"	**6FLT1**
35/4	—	—	**—**	2"	4 13/16"	**6FLT2**
35/5	2 3/16"	4 5/8"	**2MEE9**	2 3/16"	4 5/8"	**2MEJ5**
35/7.5	2 3/16"	4 5/8"	**2MEF1**	2 3/16"	4 5/8"	**2MEJ6**
40/3	2 3/8"	4 5/8"	**6FLP9**	2 3/8"	4 5/8"	**6FLT3**
40/5	2 3/8"	4 5/8"	**2MEF2**	2 3/8"	4 5/8"	**2MEJ7**
40/7.5	2 3/8"	5 1/4"	**2MEF3**	2 3/8"	5 1/4"	**2MEJ8**
45/3	2 3/8"	5 1/4"	**6FLR0**	2 3/8"	5 1/4"	**6FLT4**
45/5	2 3/8"	5 1/4"	**2MEF4**	2 3/8"	5 1/4"	**2MEJ9**
45/7.5	2 3/8"	5 1/4"	**2MEF5**	2 3/8"	5 1/4"	**2MEK1**
50/3	2 3/8"	5 1/4"	**6FLR2**	—	—	**—**
50/5	2 3/8"	5 1/4"	**2MEF6**	2 3/8"	5 1/4"	**2MEK2**
50/7.5	2 3/8"	5 1/4"	**2MEF7**	2 3/8"	5 1/4"	**2MEK3**
50/10	2 3/8"	5 1/4"	**6FLR1**	—	—	**—**
55/5	2 3/8"	5 1/4"	**2MEF8**	2 3/8"	5 1/4"	**2MEK4**
55/7.5	2 3/8"	5 1/4"	**6FLR4**	2 3/8"	5 1/4"	**2MEK5**
55/10	2 1/2"	5 1/4"	**6FLR3**	—	—	**—**
60/3	—	—	**—**	2 1/2"	5 1/4"	**6FLT5**
60/5	2 1/2"	5 1/4"	**2MEF9**	2 1/2"	5 1/4"	**2MEK6**
60/7.5	2 1/2"	5 1/4"	**2MEG1**	2 1/2"	5 1/4"	**2MEK7**
60/10	—	—	**—**	2 1/2"	5 1/4"	**2MEK8**
70/5	2 3/8"	5 5/8"	**6FLR5**	2 3/8"	5 5/8"	**6FLT6**
70/7.5	2 3/8"	5 5/8"	**6FLR6**	2 3/8"	5 5/8"	**6FLT7**
80/5	2 3/8"	5 5/8"	**2MEG2**	2 3/8"	5 5/8"	**2MEK9**
80/7.5	2 3/8"	5 5/8"	**2MEG3**	2 3/8"	5 5/8"	**2MEL1**
80/10	2 1/2"	5 13/16"	**6FLR7**	2 1/2"	5 13/16"	**12N968**

**** 480VAC.***



No. 22F163

Motor Run Capacitors

Dayton

- Temp. range: -40° to 85°C (-40° to 185°F)
- 60/50 Hz

Feature ABS case constructed with self-healing dielectric metalized polypropylene film, with ¼" blade, quick-connect terminals, and metal tab mounting bracket. For use in blower, fan, and pump motors. Rectangular shape. C-UL Recognized.

MFD Rating	Overall H	Overall W	Overall D	Item No.
370VAC				
2	1 1/2"	1 7/16"	21/32"	**22F163**
3	1 1/2"	1 7/16"	21/32"	**22F164**
4	1 7/8"	1 7/16"	7/8"	**22F165**
5	1 7/8"	1 7/16"	7/8"	**22F166**
7.5	2"	1 7/8"	1"	**22F167**
8	2"	1 7/8"	1"	**22F168**
10	2 1/4"	2 1/4"	1 3/16"	**22F169**
12.5	2 1/4"	2 1/4"	1 3/16"	**22F170**
15	2 1/4"	2 1/4"	1 3/16"	**22F171**

MFD Rating	Overall H	Overall W	Overall D	Item No.
440VAC				
2	1 1/2"	1 7/16"	21/32"	**22F172**
3	1 1/2"	1 7/16"	21/32"	**22F173**
4	1 7/8"	1 7/16"	7/8"	**22F174**
5	1 7/8"	1 7/16"	7/8"	**22F175**
7.5	2"	1 7/8"	1"	**22F176**
8	2"	1 7/8"	1"	**22F177**
10	2 1/4"	2 1/4"	1 3/16"	**22F178**
12.5	2 1/4"	2 1/4"	1 3/16"	**22F179**
15	2 1/4"	2 1/4"	1 3/16"	**22F180**

Dayton

Motor Run Capacitor Terminal Guard



Plastic guard weatherproofs capacitor connections for long service life. Fits oval cans 2"W x 1 1/4"D. Includes sheet metal mounting screws.

Item No.
2MEU9

Dayton

Motor Run Capacitor Mounting Kit



Fits oval cans 2"W x 1 1/4"D. Includes metal bracket, rubber boot, and hardware to mount capacitor and protect wire connections.

Item No.
2MEV1

Selecting a Gearmotor

A gearmotor is an electro/mechanical device using an electric motor to drive a geartrain encased in a housing. The geartrain reduces output speed while increasing available torque. Gearmotors move an object in a given direction at a rate of speed (RPM), and provide the required twisting force (torque). Select your model once load input performance requirements are identified. You must know the speed and torque requirements of the load to be driven. Unusual loads or harsh environments need to be considered before selecting a driving device. Horsepower (HP) is not a factor in selecting a standard gearmotor, since each model is designed for a specific performance level.

Parallel-Shaft have helical and spur gears. First stage gears are phenolic, nylon, or steel and typically helical for low noise. Subsequent gears are usually metallic (sintered or hardened cut steel) depending on the performance level of the gearmotor. Parallel-shaft models offer high efficiency in compact sizes.

Right-Angle include mainly worm-type gears of precision-machined steel. Worm wheel is often bronze, but may be phenolic or cast iron. These gearmotors can be heavier construction, handle higher shock loads, and run quieter than comparably-sized parallel-shaft designs, but often less efficiently.

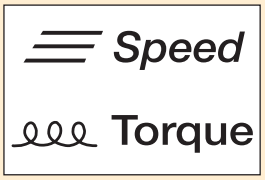

No. 4ZJ45

Mechanical Considerations

Speed. How fast should equipment or an object move? Output speeds are available from less than 1/2 rpm (revolution per minute) to nearly 350 rpm, depending on motor type and gear ratio. Based on your application, you may need to consider whether additional modified speeds will be produced through sheaves or sprocket type drive systems before determining gearmotor output speed.

Starting Torque provides initial power to get things moving. On large conveyers, starting torque requirement may be high while a small rotating display cabinet may require very little torque to overcome resistance. Small gearmotors typically have "start" and "run" torque specifications shown due to their lower overall output capabilities. Starting torque ratings can be lower than maximum running torque ratings. Heavier duty gearmotors are usually only rated for their full-load (running) torque capability since starting torque is relatively high.

Running Torque (Full Load) is the continuous twisting force to keep things moving after initial start and must maintain power under all variable load situations to provide adequate service. Running torque listed in the catalog is the maximum torque available for safe, continuous operation. Frequent starts and stops will require use of starting torque more frequently. This could result in excessive heat build-up, causing premature motor failure.



From	Into	Multiply By
in.-lb.	ft.-lb.	0.0833
ft.-lb.	in.-lb.	12
in.-oz.	in.-lb.	0.0625
in.-lb.	in.-oz.	16

How To Measure Torque

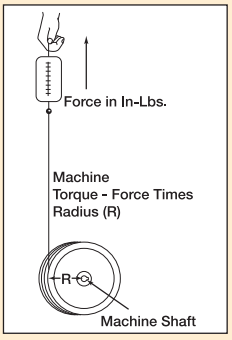
Caution: Disconnect Power Before Proceeding

Torque required to drive a machine may be measured by using a flat grooved pulley, a cord and a spring scale rated in lbs. Pulley must be rigidly attached to machine's drive shaft, with cord wrapped several times around pulley. Do not allow cord to overlap. The other end is tied to the scale. When the scale is pulled, it will turn the pulley. When the pulley first starts to turn, the scale will register starting force required in pounds.

Force registered on scale, in pounds, when multiplied by radius of pulley (radius is measured from the center of machine shaft to center of cord), in inches, yields the starting torque, in in.-lbs. required by machine.

If torque characteristics of the machine (load) vary during its operating cycle, torque must be determined at the point in the cycle where it is the greatest.

If pulley can be turned (by pulling on cord) at a rate equal to normal speed of driven equipment, an indication of running torque can be obtained. If load of machine is almost entirely due to friction, running requirement will be essentially the same regardless of speed. However, if load is primarily the result of inertia or windage (air drag), characteristics of the inertia or windage elements must be known.



Electrical Considerations

Before you can select the best gearmotor for your application, you need to identify your intended power supply. AC and DC input gearmotors from 12VDC to 460VAC are available. This chart provides typical characteristics of different motor types as a guide for your selection.

Type	Starting Torque	Reversible	Speed Controllable	Features
Shaded Pole	Low	No	No	Rugged, Relative Low Cost
PSC	Medium	Yes	No	Reversible, Quiet Operation
Split-Phase	Med/High	Yes	No	Fairly High Start Torque
Capacitor-Start	High	Yes	No	Heavy-Duty Start-Ups, Dual Voltage
3-Phase	High	Yes	No*	Simple, Reliable, High Start Power and Efficiency
DC	High	Yes	Yes†	Speed Controllable, High Start Torque
Universal AC/DC	High	Yes	Yes†	Speed Controllable, Relatively Low Cost, Simple Operation

**** Inverter-Duty motors can be controlled with an inverter. † Performance matched speed controls are available for many catalog gearmotor listings.***

Loads

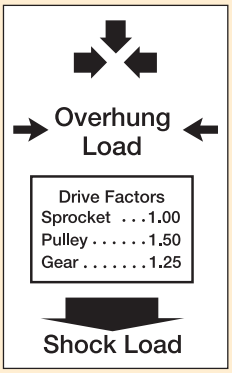
Driven items connected to and driven by the gearmotor output shaft constitute the load. Not all loads coupled to gearmotors have steady speed and torque requirements. Some loads demand power surges from the gearmotor during running cycle. This can be abusive to gears. Also, environmental conditions and space restrictions need to be taken into account. Two types of loads that require careful consideration before selecting a gearmotor are Overhung (Radial) Load and Shock Load.

Overhung (Radial) Load (OHL) is the perpendicular force pushing against the side of an output shaft. This force is either from a weight hanging on the output shaft or from a sprocket, pulley or gear being used on the shaft. Every gearmotor has an OHL specification which should not be exceeded.

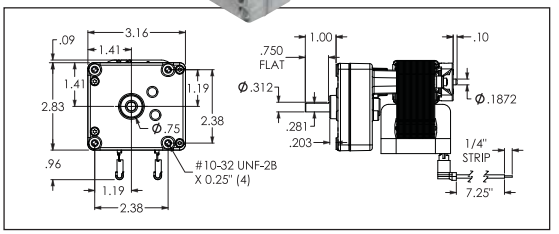
If you plan to use a sprocket, pulley, gear or any weight suspended directly on the shaft, calculate OHL to aid selection of the gearmotor. First, use the formula below to determine the pounds of load. Second, multiply pounds of load by the appropriate drive factor at right to determine actual OHL ratings in pounds on center of output shaft.

$$\frac{\text{Full-Load Torque (Requirement of Gearmotor)} \times 2}{\text{Pitch Dia. of Sprocket, Pulley or Gear}} = \text{Lbs. of Load}$$

Shock Load. Some applications subject gearmotors to loads that transmit shock or abrupt peak loads back to the gearmotor. Shock load can create peak loads several times greater than gearmotor torque rating. For example, when a heavy object accidentally is dropped on a running conveyor, this causes shock to gears and may even break them. Be sure the gearmotor is rated high enough to handle maximum anticipated shock load conditions.





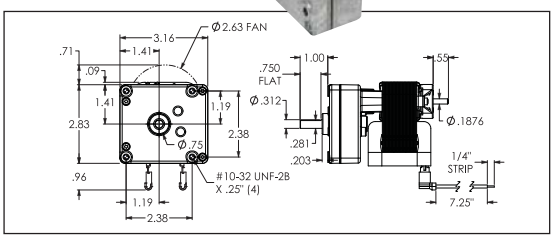


115VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated cut steel and acetal
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- UL Recognized

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1	50.0 in.-lb.	41 lb.	1/670	3231:1	0.38	4"	**1MBF3**
2.2	32.0 in.-lb.	41 lb.	1/476	1526:1	0.38	4"	**1MBF4**
6.6	25.0 in.-lb.	41 lb.	1/229	504:1	0.38	4"	**1MBF5**
11.5	26.0 in.-lb.	41 lb.	1/138	294:1	0.57	3⅞"	**1MBF6**
20	15.0 in.-lb.	41 lb.	1/139	168:1	0.57	3⅞"	**1MBF7**
30.6	12.0 in.-lb.	41 lb.	1/112	107:1	0.57	3⅞"	**1MBF8**
66	4.7 in.-lb.	41 lb.	1/148	51:1	0.57	3⅞"	**1MBF9**
130	2.7 in.-lb.	41 lb.	1/145	26:1	0.57	3⅞"	**1MBG1**
197	1.2 in.-lb.	41 lb.	1/195	16:1	0.38	3½"	**1MBG2**



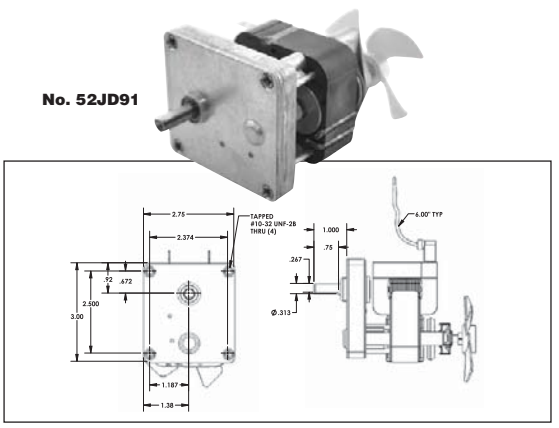


115VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: gasketed die-cast zinc with screws
- Lubrication: grease filled
- Gears: hardened steel and phenolic
- Bearings: roller on case; ball and porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class B
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

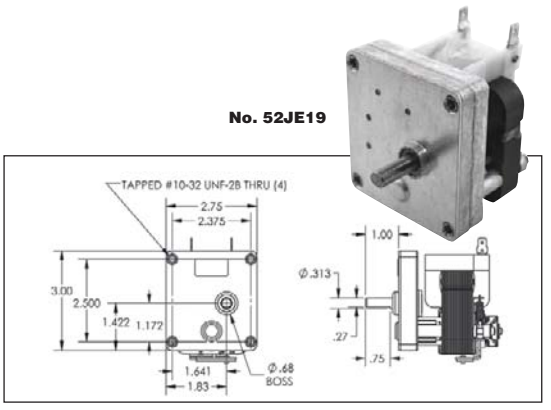
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1	100.0 in.-lb.	54 lb.	1/316	3231:1	0.62	4¾"	**1MBG3**
6.7	50.0 in.-lb.	41 lb.	1/111	504:1	0.62	4¾"	**1MBG4**
13	50.0 in.-lb.	18 lb.	1/64	252:1	1.2	4⅝"	**1MBG5**
214	5.0 in.-lb.	2 lb.	1/43	16:1	1.4	4⅞"	**1MBG6**
368	3.3 in.-lb.	1 lb.	1/42	9:1	1.4	4⅞"	**1MBG7**



115VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C
- UL Recognized and CSA Certified

Nameplate RPM	Starting Torque	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Gearmotor Mounting Position	Item No.
Magnetic Brake									
25	11 in.-lb.	20.0 in.-lb.	30 lb.	1/70	125.5:1	0.75	4⅛"	All Angle	**52JD92**
50	4.5 in.-lb.	10.0 in.-lb.	30 lb.	1/70	69.2:1	0.75	4⅛"		**52JD93**
Cone Brake									
25	11 in.-lb.	13 in.-lb.	30 lb.	1/70	125.5:1	0.75	4⅛"	Horizontal	**52JD91**
50	4.5 in.-lb.	10.0 in.-lb.	30 lb.	1/70	69.2:1	0.75	4⅛"		**52JD94**

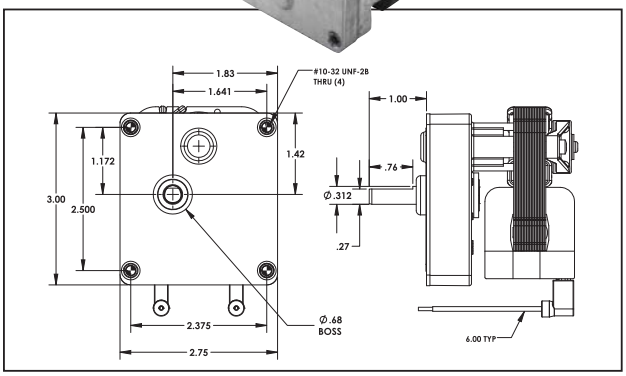


115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

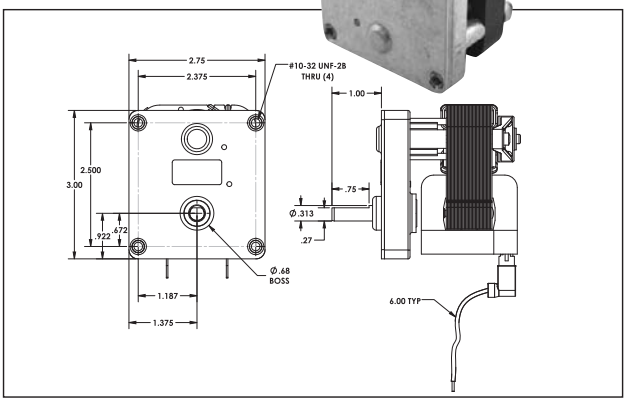
- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C
- UL Recognized and CSA Certified

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Brake	Full Load Amps	Length Less Shaft	Item No.
115VAC, 60 Hz								
7.0	30.0 in.-lb.	30 lb.	1/100	439.3:1	Magnetic	0.52	3¼"	**52JE19**
7.0	30.0 in.-lb.	30 lb.	1/100	439.3:1	Cone	0.52	3½"	**52JE20**
230VAC, 50 Hz (3 leads)								
5.8	30.0 in.-lb.	30 lb.	1/100	439.3:1	Magnetic	0.26	3¼"	**52JE18**

A.



B.



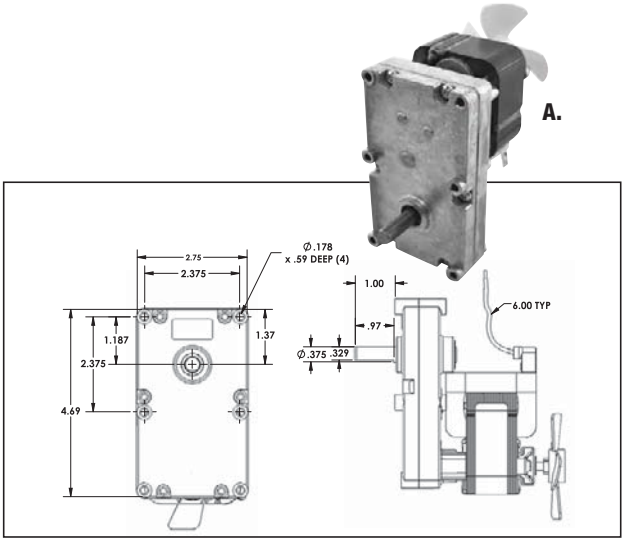
115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton®

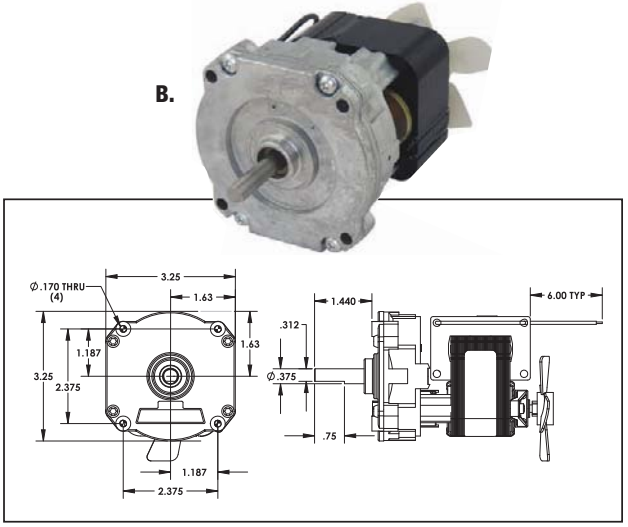
- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C
- UL Recognized and CSA Certified

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115VAC, 60 Hz								
A	1.1	50.0 in.-lb.	30 lb.	1/250	2847:1	0.38	2 3/8"	**52JE26**
A	6.9	30.0 in.-lb.	30 lb.	1/100	439.3:1	0.52	2 3/8"	**52JE27**
B	18	13.0 in.-lb.	30 lb.	1/100	172:1	0.50	2 3/4"	**52JE29**
B	25	9.3 in.-lb.	30 lb.	1/100	114.3:1	0.50	2 3/8"	**52JE30**
B	35	7.3 in.-lb.	30 lb.	1/100	86.8:1	0.50	2 3/8"	**52JE31**
B	50	4.2 in.-lb.	30 lb.	1/100	69.15:1	0.50	2 3/8"	**52JE28**
230VAC, 50 Hz								
A	0.9	50.0 in.-lb.	30 lb.	1/250	2847:1	0.25	2 5/8"	**52JE21**
A	5.8	35.0 in.-lb.	30 lb.	1/100	439.3:1	0.26	2 3/4"	**52JE22**
B	16	13.0 in.-lb.	30 lb.	1/100	167.4:1	0.25	2 3/8"	**52JE24**
B	21	9.3 in.-lb.	30 lb.	1/100	114.3:1	0.25	2 3/8"	**52JE25**
B	41	4.2 in.-lb.	30 lb.	1/100	69.15:1	0.26	2 3/8"	**52JE23**

A.



B.



115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton®

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C
- UL Recognized and CSA Certified

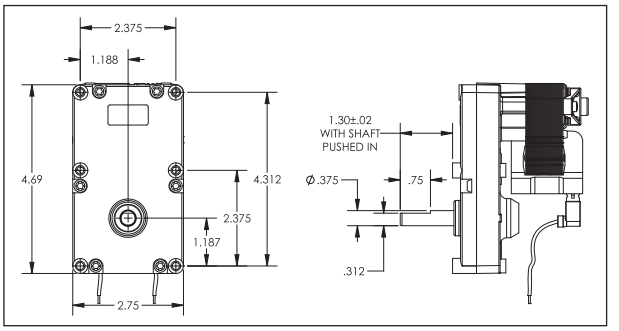
Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115VAC, 60 Hz								
A	6.0	80.0 in.-lb.	30 lb.	1/60	529.2:1	1.0	4 5/8"	**52JE02** *
A	6.3	190.0 in.-lb.	30 lb.	1/60	529.2:1	1.5	4 1/4"	**52JD98**
A	25	25.0 in.-lb.	30 lb.	1/60	145:1	1.3	4 5/8"	**52JD99**
A	22	21.0 in.-lb.	30 lb.	1/60	145:1	1.3	4 5/8"	**52JE03** *
A	50	12.0 in.-lb.	30 lb.	1/60	63.4:1	1.3	4 1/4"	**52JE01**
A	50	12.0 in.-lb.	30 lb.	1/60	63.4:1	1.3	4 5/8"	**52JE04** *
B	10	100.0 in.-lb.	30 lb.	1/60	294:1	1.9	4 25/32"	**52JD97**
230VAC, 50 Hz (3 leads)								
A	5.0	180.0 in.-lb.	30 lb.	1/60	529.2:1	0.75	4 1/4"	**52JD95**
230VAC, 60/50 Hz (3 leads)								
A	5.0	140.0 in.-lb.	30 lb.	1/60	529.2:1	0.55	4 5/8"	**52JD96** *†

** Includes magnetic clapper brake. † Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.*



Commonly used in pellet and corn stoves and other appliances requiring higher torque

No. 52JE05



115VAC Shaded Pole Parallel-Shaft Gearmotors

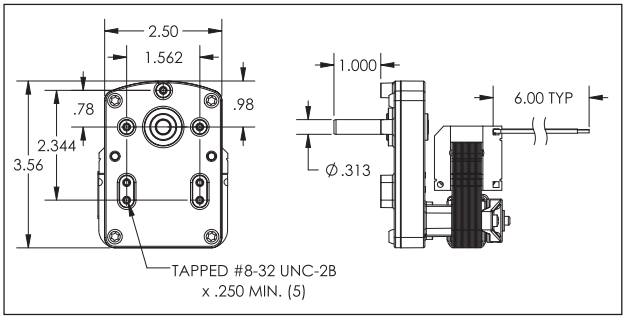
- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: Delrin® and sintered steel
- Bearings: needle on case; porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Ambient: 40°C
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Thermal Protection	CW ROTATION Item No.	CCW ROTATION Item No.
1.0	200 in.-lb.	30 lb.	1/200	2851.8:1	0.45	3⅜"	Impedance	**52JE10**	**52JE05**
2.0	135 in.-lb.	30 lb.	1/30	1428.7:1	0.45	3⅜"	Impedance	**52JE09**	**52JE06**
4.0	75 in.-lb.	30 lb.	1/60	823.4:1	0.45	3⅜"	Impedance	**52JE11**	**52JE07**
6.0	140 in.-lb.	30 lb.	1/50	525:1	1.30	3⅜"	Auto	**52JE12**	**52JE08**
10	100 in.-lb.	30 lb.	1/50	333.6:1	1.30	3⅜"	Auto	**52JE13**	—
25	50 in.-lb.	30 lb.	1/50	145:1	1.30	3⅜"	Auto	**52JE14**	—
50	25 in.-lb.	30 lb.	1/50	63.4:1	1.30	3⅜"	Auto	**52JE15**	—



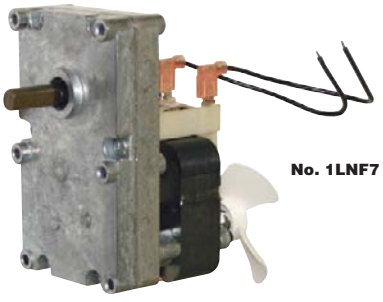
No. 52JE16



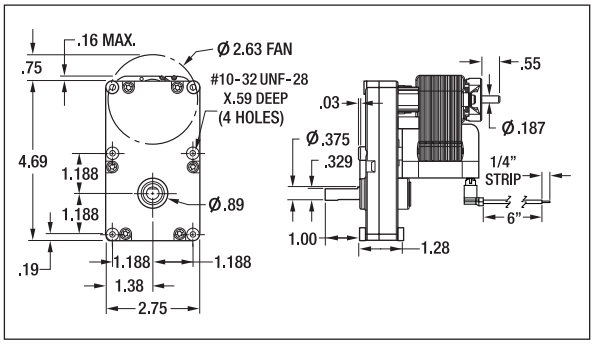
115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C
- UL Recognized and CSA Certified

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115VAC, 60 Hz							
4.6	40.0 in.-lb.	30 lb.	1/250	709.17:1	0.32	2⅞"	**52JE17**
230VAC, 50 Hz (3 leads)							
4.1	40.0 in.-lb.	30 lb.	1/250	709.17:1	0.32	2⅞"	**52JE16**



No. 1LNF7



115VAC Shaded Pole Parallel-Shaft Gearmotors

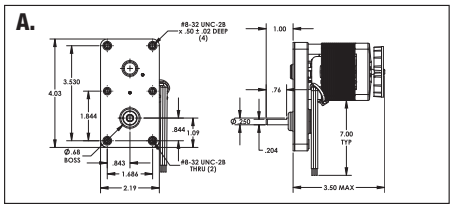
- Enclosure: open
- Gearcase: die-cast zinc with screws and gasketed cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: needle on cover; ball bearing and bronze on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class A
- UL Recognized

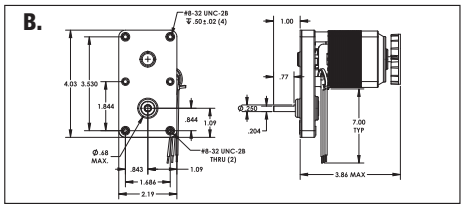
Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1	100.0 in.-lb.	56 lb.	1/80	2976:1	0.5	4¼"	**1LNG2**
4	130.0 in.-lb.	56 lb.	1/80	762:1	0.7	4¼"	**1LNF7**
6	150.0 in.-lb.	65 lb.	1/50	529:1	1.3	4⅝"	**1LNF8**
26	45.0 in.-lb.	15 lb.	1/50	126:1	1	4⅝"	**1LNF9**
52	25.0 in.-lb.	10 lb.	1/50	63:1	1.3	4⅝"	**1LNG1**



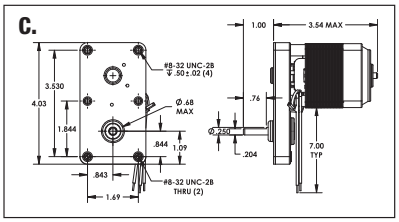
A. and B.





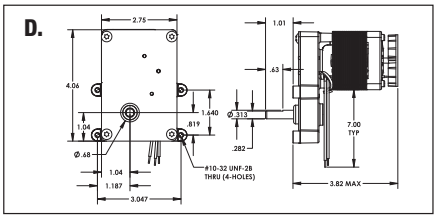


C.





D.



115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position (**A.** and **D.** only); output shaft horizontal (**B.** and **C.** only)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: auto
- Capacitor: No. 2MDV3 required (order separately on page 66)
- Brake: friction (**B.** and **C.** only)
- Ambient: 40°C
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
	4	30.0 in.-lb.	30 lb.	1/100	643.5:1	0.35	3 1/2"	52JE32 *
	20	13.0 in.-lb.	30 lb.	1/100	123:1	0.35	3 1/2"	52JE36
A	30	7.5 in.-lb.	30 lb.	1/100	99.8:1	0.35	3 1/2"	52JE33
	60	4.0 in.-lb.	30 lb.	1/100	49.9:1	0.35	3 1/2"	52JE34
	100	2.0 in.-lb.	30 lb.	1/100	30.6:1	0.35	3 1/2"	52JE35
	1	42.0 in.-lb.	30 lb.	1/100	2541:1	0.35	3 7/8"	52JE38
B	4	26.0 in.-lb.	30 lb.	1/100	654.2:1	0.35	3 7/8"	52JE39
	7	18.0 in.-lb.	30 lb.	1/100	360:1	0.35	3 7/8"	52JE40
	12	11.0 in.-lb.	30 lb.	1/100	256:1	0.35	3 7/8"	52JE41
	18	8.0 in.-lb.	30 lb.	1/100	174.7:1	0.35	3 7/8"	52JE42
C	25	6.0 in.-lb.	30 lb.	1/100	124:1	0.35	3 7/8"	52JE43
	55	2.6 in.-lb.	30 lb.	1/100	57:1	0.35	3 7/8"	52JE44
	98	1.5 in.-lb.	30 lb.	1/100	30.6:1	0.35	3 7/8"	52JE45
D	10	26.0 in.-lb.	30 lb.	1/100	281:1	0.35	4"	52JE37

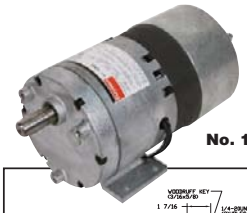
Shaft dia.: 0.313".

115VAC Shaded Pole Parallel-Shaft Gearmotors

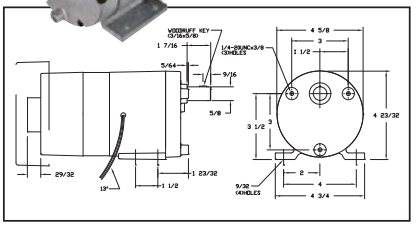
Dayton

- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: acetal and steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: none
- Ambient: 40°C
- UL Recognized and CSA Certified

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Open, Fan-Cooled, No Brake							
7	113.0 in.-lb.	150 lb.	1/10	250:1	2.6	7 7/8"	1LPN5
13	113.0 in.-lb.	150 lb.	1/10	128:1	2.6	7 7/8"	1LPN2
30	113.0 in.-lb.	150 lb.	1/10	52:1	2.6	7 7/8"	1LPL8
60	59.0 in.-lb.	150 lb.	1/10	27:1	2.6	7 7/8"	1LPL6
Open, Fan-Cooled, Power Off Disc Brake							
2	113.0 in.-lb.	150 lb.	1/10	750:1	2.6	8 7/8"	1LPN7
7	113.0 in.-lb.	150 lb.	1/10	250:1	2.6	8 7/8"	1LPN4
13	113.0 in.-lb.	150 lb.	1/10	128:1	2.6	8 7/8"	1LPN1
30	113.0 in.-lb.	150 lb.	1/10	52:1	2.6	8 7/8"	1LPL7
60	59.0 in.-lb.	150 lb.	1/10	27:1	2.6	8 7/8"	1LPL2
TEFC, No Brake							
2	113.0 in.-lb.	150 lb.	1/20	750:1	1.6	7 1/2"	1LPN8
7	113.0 in.-lb.	150 lb.	1/20	250:1	1.6	7 1/2"	1LPN6
13	113.0 in.-lb.	150 lb.	1/20	128:1	1.6	7 1/2"	1LPN3
30	42.0 in.-lb.	150 lb.	1/20	52:1	1.6	7 1/2"	1LPL9



No. 1LPL2



115/230 and 115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel
- Bearings: needle throughout; ball on motor
- Mounting: all-position, optional mounting bracket No. 2A754, see page 72
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to No. 5X400 (order separately; see page 95) using 1 disc in brake
- UL and C-UL Recognized, and Nos. 2H604 and 2H602 are also CE Certified

Note: Ratings shown are at 60 Hz. Gearmotors Nos. 2H604 and 2H602 are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

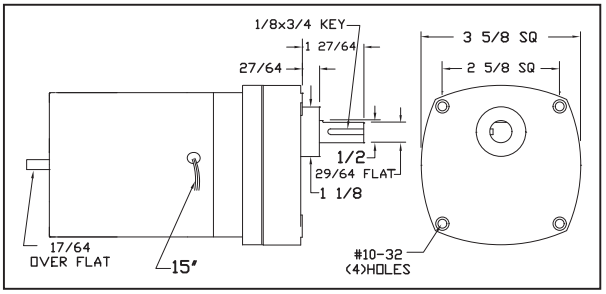
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV, 115/230VAC, 60/50 Hz, 1/20 Input HP							
4.6	160.0 in.-lb.	115 lb.	1/20	362:1	0.38/0.22	7 1/2"	2H604
17	150.0 in.-lb.	150 lb.	1/20	96:1	0.56/0.29	6 3/4"	2H602
Open, 115VAC, 60 Hz, 1/10 Input HP							
33	165.0 in.-lb.	130 lb.	1/10	49:1	1.05	7 1/2"	2H600
63	90.0 in.-lb.	230 lb.	1/10	25:1	1.05	7 1/2"	2H598
124	47.0 in.-lb.	220 lb.	1/10	13:1	1.05	7 1/2"	2H596



No. 2H604



No. 2H600

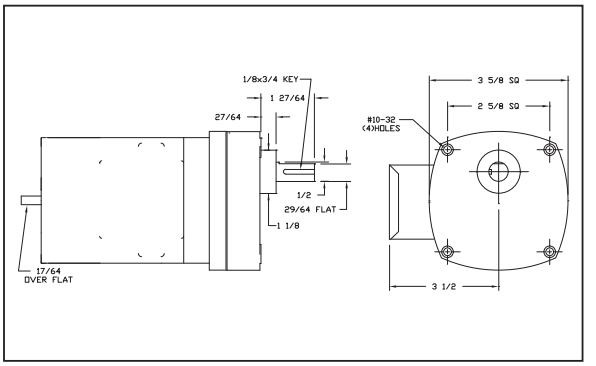


115, 230, and 115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

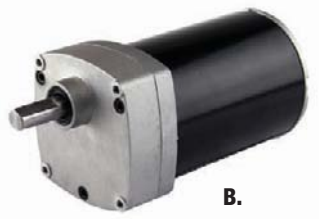
Note: Ratings shown are at 60 Hz. 60/50-Hz gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating. Nos. 6Z081, 6Z082, 6Z083, 6A197, 6Z084, and 6A196 are operable at 60 Hz only.



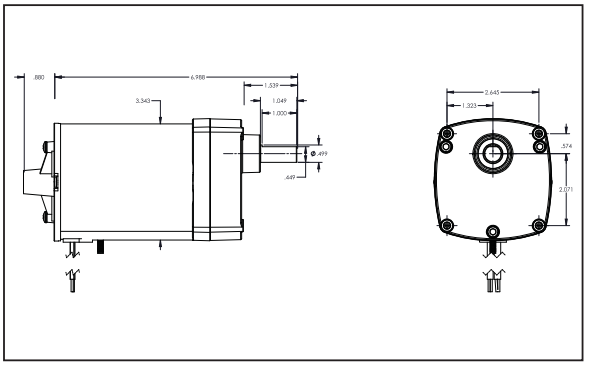
A.
Shown with conduit box accessory



A.
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: 1st stage steel, subsequent stages steel or heat-treated powdered metal
- Bearings: Heavy-duty needle on case; ball on motor
- Mounting: all-position, optional mounting bracket No. 2A754
- Rotation: reversible
- Thermal protection: none; impedance on Nos. 6Z073 to 6Z076
- Ambient: 40°C
- Brake: adaptable to No. 5X400 (order separately; see page 95)
- UL and C-UL Recognized, and 230VAC are CE Certified



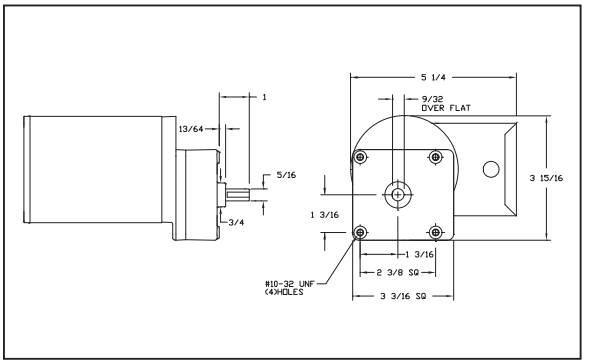
B.



B.
- Enclosure: totally enclosed, nonventilated
- Gearcase: CNC machined, die-cast aluminum
- Lubrication: grease-filled
- Gears: first stage high-strength polymer and powdered metal
- Bearings: ball bearings for motor, needle for output shaft
- Mounting: all-position (optional foot bracket No. 2A754)
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to No. 5X400 (order separately; see page 95)
- UL and C-UL Recognized



C.



C.
- Enclosure: totally enclosed, nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: steel, 1st stage acetal
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40
- UL and C-UL Recognized, and CE Certified

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
Open, 115VAC, 60/50 Hz									
A	1.2	100.0 in.-lb.	90 lb.	1/80	1369:1	0.3	7 1/4"	2MDV3	**6Z073**
	2.3	100.0 in.-lb.	90 lb.	1/80	702:1	0.3	7 1/4"	2MDV3	**6Z074**
	4.5	100.0 in.-lb.	90 lb.	1/80	361:1	0.3	7 1/4"	2MDV3	**6Z075**
	8.8	76.0 in.-lb.	90 lb.	1/80	186:1	0.3	7 1/4"	2MDV3	**6Z076**
	16	100.0 in.-lb.	90 lb.	1/20	96:1	0.62	7 3/8"	2MDV6	**6Z077**
	32	96.0 in.-lb.	90 lb.	1/20	49:1	0.62	7 3/8"	2MDV6	**6Z078**
	63	49.0 in.-lb.	90 lb.	1/20	25:1	0.62	7 3/8"	2MDV6	**6Z079**
	95	30.0 in.-lb.	90 lb.	1/20	17:1	0.62	7 3/8"	2MDV6	**6A195**
	124	25.0 in.-lb.	90 lb.	1/20	13:1	0.62	7 3/8"	2MDV6	**6Z080**
Open, 230VAC, 60/50 Hz									
A	1.2	100.0 in.-lb.	90 lb.	1/80	1369:1	0.2	7 7/8"	Included	**1L532**
	2.3	100.0 in.-lb.	90 lb.	1/80	702:1	0.2	7 7/8"	Included	**1L525**
	4.5	100.0 in.-lb.	90 lb.	1/80	362:1	0.2	7 7/8"	Included	**1L522**
	8.8	76.0 in.-lb.	90 lb.	1/80	186:1	0.2	7 7/8"	Included	**1L519**
	17	100.0 in.-lb.	90 lb.	1/20	96:1	0.3	8 1/4"	Included	**1L526**
	32	86.0 in.-lb.	90 lb.	1/20	49:1	0.3	8 1/4"	Included	**1L524**
	63	46.0 in.-lb.	90 lb.	1/20	25:1	0.3	8 1/4"	Included	**1L521**
	95	30.0 in.-lb.	90 lb.	1/20	17:1	0.3	8 1/4"	Included	**1L518**
TENV, 115VAC, 60 Hz									
A	17	100.0 in.-lb.	90 lb.	1/20	96:1	0.6	7 3/8"	2MDV6	**6Z081**
	33	96.0 in.-lb.	90 lb.	1/20	49:1	0.6	7 3/8"	2MDV6	**6Z082**
	63	49.0 in.-lb.	90 lb.	1/20	25:1	0.6	7 3/8"	2MDV6	**6Z083**
	95	30.0 in.-lb.	90 lb.	1/20	17:1	0.6	7 3/8"	2MDV6	**6A197**
	124	25.0 in.-lb.	90 lb.	1/20	13:1	0.6	7 3/8"	2MDV6	**6Z084**
	154	20.0 in.-lb.	90 lb.	1/20	10:1	0.6	7 3/8"	2MDV6	**6A196**

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
TENV, 230VAC, 60/50 Hz									
A	17	100.0 in.-lb.	90 lb.	1/20	96:1	0.3	8"	Included	**1L527**
	32	86.0 in.-lb.	90 lb.	1/20	49:1	0.3	8"	Included	**1L523**
	63	46.0 in.-lb.	90 lb.	1/20	25:1	0.3	8"	Included	**1L520**
	95	30.0 in.-lb.	90 lb.	1/20	17:1	0.3	8"	Included	**1L517**
	124	25.0 in.-lb.	90 lb.	1/20	13:1	0.3	8"	Included	**1L530**
	154	18.0 in.-lb.	90 lb.	1/20	10:1	0.3	8"	Included	**1L528**
TENV, 115VAC, 60/50 Hz									
B	16	67.0 in.-lb.	50 lb.	1/25	106:1	0.52	6 1/2"	2MDV4	**453R93**
	29	50.0 in.-lb.	50 lb.	1/25	58.5:1	0.51	6 1/2"	2MDV4	**453R94**
	60	30.0 in.-lb.	50 lb.	1/25	28.3:1	0.52	6 1/2"	2MDV4	**453R95**
	105	20.0 in.-lb.	50 lb.	1/25	15.9:1	0.53	6 1/2"	2MDV4	**453R96**
	139	14.0 in.-lb.	50 lb.	1/25	12.1:1	0.52	6 1/2"	2MDV4	**453R97**
	164	12.0 in.-lb.	50 lb.	1/25	10.2:1	0.52	6 1/2"	2MDV4	**453R98**
TENV, 115/230VAC, 60/50 Hz									
C	4	50.0 in.-lb.	50 lb.	1/20	491:1	0.62/0.33	6 1/8"	Included	**1LPU6**
	7	50.0 in.-lb.	50 lb.	1/20	239:1	0.62/0.33	6 1/8"	Included	**1LPU7**
	36	50.0 in.-lb.	50 lb.	1/20	47:1	0.62/0.33	5 3/4"	Included	**1LPU8**
	68	30.0 in.-lb.	50 lb.	1/20	26:1	0.62/0.33	5 3/4"	Included	**1LPU9**
	96	20.0 in.-lb.	50 lb.	1/20	18:1	0.62/0.33	5 3/4"	Included	**1LPV1**
	181	12.0 in.-lb.	50 lb.	1/20	10:1	0.62/0.33	5 3/4"	Included	**1LPV2**

Description	For Use With	Item No.
Accessories		
L-Shaped Mounting Bracket	A and B Gearmotors	**2A754**
Conduit Box	A and B Gearmotors	**4JV45**

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors


A.


B.


C.

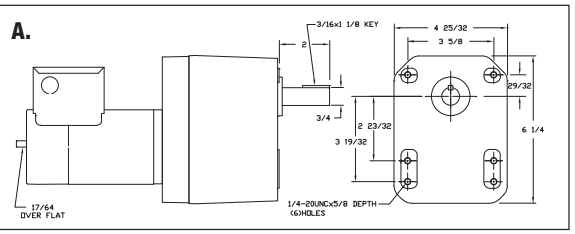
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: needle throughout with thrust ball on case and ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to No. 5X400 (**A.** and **B.** units)
- Motors **A.** and **B.** are UL and C-UL Recognized; Motors **C.** are UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

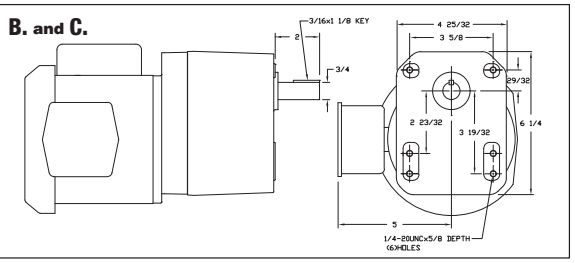
Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
TENV									
A	1.2	710.0 in.-lb.	900 lb.	1/58	1427:1	0.36/0.21	9 15/16"	**2H618**	
TEFC									
B	6	710.0 in.-lb.	900 lb.	1/6	276:1	2.1/1.1	11 3/8"	**2H616**	*
	12	700.0 in.-lb.	900 lb.	1/6	138:1	2.1/1.1	11 3/8"	**2H614**	*
	14	630.0 in.-lb.	900 lb.	1/6	116:1	2.1/1.1	11 3/8"	**2H612**	*
C	30	660.0 in.-lb.	650 lb.	1/2	54:1	5.2/2.8	16"	**2H610**	†
	58	490.0 in.-lb.	600 lb.	1/2	28:1	5.2/2.8	16"	**2H608**	†
	81	345.0 in.-lb.	550 lb.	1/2	20:1	5.2/2.8	16"	**2H606**	†

**** Capacitor remotely mounted. † No rear-shaft extension.***

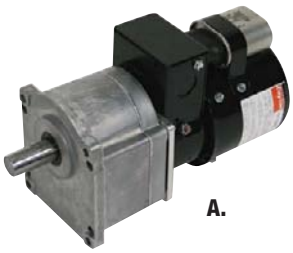
A.



B. and C.



115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

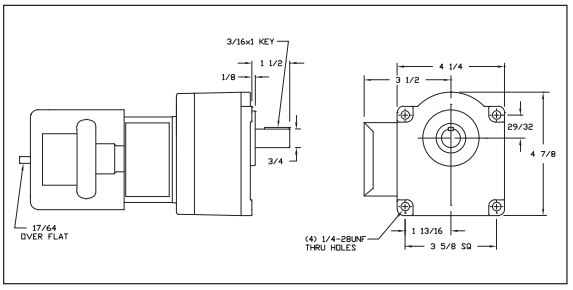

A.


B.

- Enclosure: totally enclosed fan cooled
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball and needle on case, ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Motor dia.: **A.** 4", **B.** 5.5"
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to No. 5X400; see page 95
- UL and C-UL Recognized

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	6	500.0 in.-lb.	300 lb.	1/12	266:1	1.2/0.63	9 1/2"	1	**1LPX6**
	10	500.0 in.-lb.	300 lb.	1/12	164:1	1.2/0.63	9 1/2"	1	**1LPX5**
	14	340.0 in.-lb.	300 lb.	1/12	114:1	1.2/0.63	9 1/2"	1	**1LPX3**
B	15	500.0 in.-lb.	400 lb.	1/3	108:1	2.05/1.05	10"	2	**1LPX4**
	20	500.0 in.-lb.	400 lb.	1/3	80:1	2.05/1.05	10"	2	**1LPX2**
	30	360.0 in.-lb.	400 lb.	1/3	54:1	2.05/1.05	10"	2	**1LPX1**
	43	265.0 in.-lb.	400 lb.	1/3	38:1	2.05/1.05	10"	2	**1LPW9**
	63	180.0 in.-lb.	400 lb.	1/3	26:1	2.05/1.05	10"	2	**1LPW8**
	91	130.0 in.-lb.	400 lb.	1/3	18:1	2.05/1.05	10"	2	**1LPW7**
	156	77.0 in.-lb.	400 lb.	1/3	10:1	2.05/1.05	10"	2	**1LPW6**



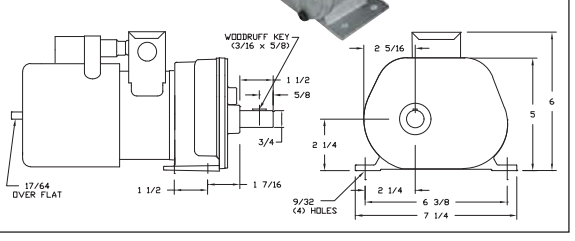
115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors


No. 1LPL3

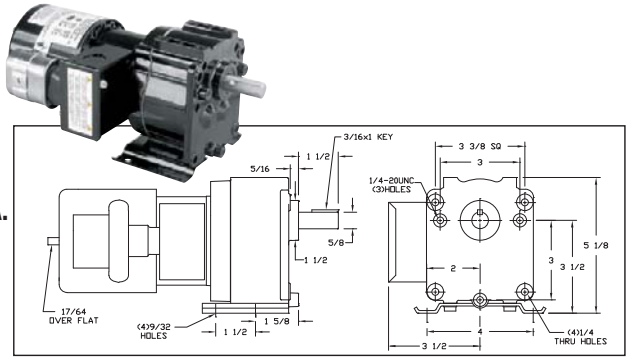
- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated steel/phenolic
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor included
- Brake: adaptable to No. 5X400 using 1 disc in brake; see page 95
- UL and C-UL Recognized, and CE Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

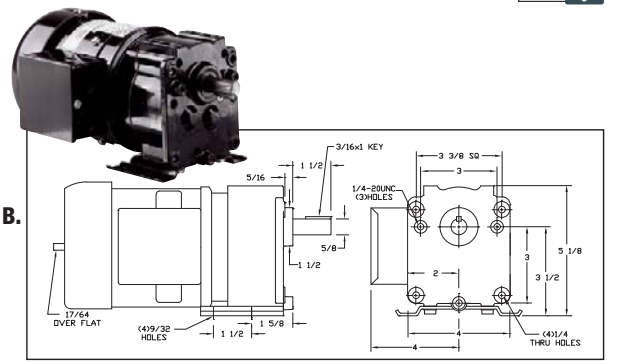
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6	600.0 in.-lb.	250 lb.	1/12	267:1	1.2/0.63	9 7/8"	**1LPL5**
12	400.0 in.-lb.	250 lb.	1/12	135:1	1.2/0.63	9 7/8"	**1LPL4**
20	250.0 in.-lb.	250 lb.	1/12	81:1	1.2/0.63	9 7/8"	**1LPL3**



A.



B.



115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to No. 5X400 using number of discs shown in table; see page 95 for dimensions
- UL and C-UL Recognized, and CE Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	15	202.0 in.-lb.	175 lb.	1/15	107:1	1.2/0.63	8¾"	1	4Z518
	30	135.0 in.-lb.	175 lb.	1/15	53:1	1.2/0.63	8¾"	1	4Z519
	45	92.0 in.-lb.	175 lb.	1/15	35:1	1.2/0.63	8¾"	1	4Z520
	70	61.0 in.-lb.	175 lb.	1/15	23:1	1.2/0.63	8¾"	1	4Z521
	97	43.0 in.-lb.	175 lb.	1/15	17:1	1.2/0.63	8¾"	1	4Z522
	139	30.0 in.-lb.	175 lb.	1/15	12:1	1.2/0.63	8¾"	1	4Z523
B	7.8	320.0 in.-lb.	175 lb.	1/12	216:1	2.0/1.0	9 9/16"	1	6Z816
	16	385.0 in.-lb.	175 lb.	1/8	102:1	2.1/1.1	9 9/16"	1	6Z817
	30	278.0 in.-lb.	175 lb.	1/8	58:1	2.1/1.1	9 9/16"	2	6Z818
	41	210.0 in.-lb.	175 lb.	1/8	43:1	2.1/1.1	9 9/16"	2	6Z819
	60	157.0 in.-lb.	175 lb.	1/8	28:1	2.1/1.1	9 9/16"	2	6Z820
	93	100.0 in.-lb.	175 lb.	1/8	19:1	2.1/1.1	9 9/16"	2	6Z821
	161	60.0 in.-lb.	175 lb.	1/8	11:1	2.1/1.1	9 9/16"	2	6Z822

115/230VAC Permanent Split Capacitor and 230/460VAC 3-Phase Parallel-Shaft Gearmotors

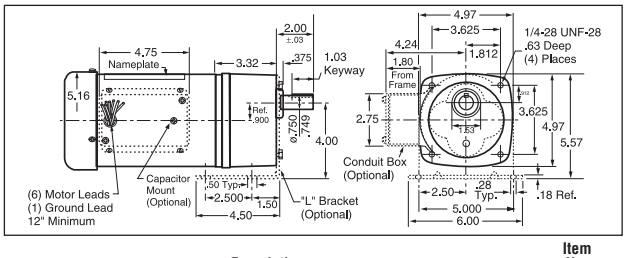
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened, AGMA Class 9
- Bearings: motor has ball bearings; gearbox has needle bearings and thrust ball bearings throughout
- Oversized output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up (optional bracket No. 6XF03 for base mounting)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- 3/16" x 1" key
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.



No. 6MK74

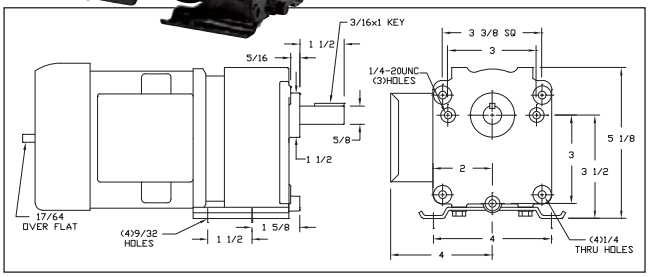
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Permanent Split Capacitor, TENV, 115/230VAC, Capacitor Included							
5	310.0 in.-lb.	565 lb.	1/12	336:1	1.30/0.65	9¾"	6MK70
9	341.0 in.-lb.	491 lb.	1/12	180:1	1.30/0.65	9¾"	6MK71
14	330.0 in.-lb.	459 lb.	1/12	124:1	1.30/0.65	9¾"	6MK72
19	250.0 in.-lb.	374 lb.	1/12	91:1	1.30/0.65	9¾"	6MK73
Permanent Split Capacitor, TEFC, 115/230VAC, Capacitor Included							
29	270.0 in.-lb.	327 lb.	1/8	58:1	2.90/1.45	11¾"	6MK74
34	250.0 in.-lb.	330 lb.	1/8	50:1	2.90/1.45	11¾"	6MK75
40	180.0 in.-lb.	303 lb.	1/8	43:1	2.90/1.45	11¾"	6MK76
59	135.0 in.-lb.	267 lb.	1/8	29:1	2.90/1.45	11¾"	6MK77
75	90.0 in.-lb.	256 lb.	1/8	23:1	2.90/1.45	11¾"	6MK78
113	68.0 in.-lb.	222 lb.	1/8	15:1	2.90/1.45	11¾"	6MK79
160	45.0 in.-lb.	196 lb.	1/8	10:1	2.90/1.45	11¾"	6MK80
340	25.0 in.-lb.	190 lb.	1/8	5:1	2.90/1.45	11¾"	6MK81
3-Phase, TEFC, 230/460VAC, Conduit Box Included							
58	320.0 in.-lb.	300 lb.	1/3	30:1	1.60/0.80	11⅞"	6MK82
85	218.0 in.-lb.	300 lb.	1/3	20:1	1.60/0.80	11⅞"	6MK83
173	109.0 in.-lb.	300 lb.	1/3	10:1	1.60/0.80	11⅞"	6MK84
345	55.0 in.-lb.	300 lb.	1/3	5:1	1.60/0.80	11⅞"	6MK85



Description	Item No.
Accessories	
L-Shaped Mounting Bracket	6XF03
Conduit Box	6XF01



No. 6K331



115VAC Split-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to No. 5X400 brake using number of discs shown in table; see page 95
- UL and C-UL Recognized

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
14	350.0 in.-lb.	175 lb.	1/12	127:1	1.75	9⅜"	1	6K325
27	275.0 in.-lb.	175 lb.	1/8	65:1	3.8	9⅞"	2	6K328
40	225.0 in.-lb.	175 lb.	1/8	43:1	3.8	9⅞"	2	6K329
60	150.0 in.-lb.	175 lb.	1/8	28:1	3.8	9⅞"	2	6K331
90	100.0 in.-lb.	175 lb.	1/8	19:1	3.8	9⅞"	2	6K332
135	65.0 in.-lb.	175 lb.	1/8	13:1	3.8	9⅞"	2	6K334

Find the CAD files you need on Grainger.com®

115VAC Shaded Pole and Split-Phase Parallel-Shaft Gearmotors

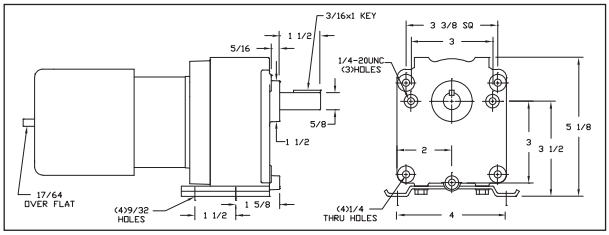
Dayton

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft on shaded pole models; reversible on split-phase models
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to No. 5X400. 1 brake disk required for all units, sold separately on page 95
- Shaded pole motors are UL Recognized; split-phase motors are UL and C-UL Recognized



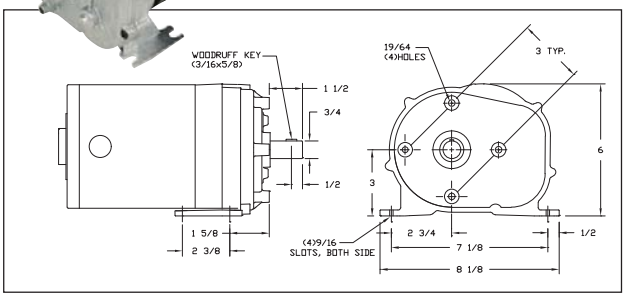
No. 3M326

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Shaded Pole							
4.1	200.0 in.-lb.	175 lb.	1/40	396:1	1.5	8 3/8"	**3M326**
6.1	200.0 in.-lb.	175 lb.	1/40	265:1	1.5	8 3/8"	**3M327**
14	200.0 in.-lb.	175 lb.	1/20	118:1	1.9	8 1/2"	**3M328**
30	126.0 in.-lb.	175 lb.	1/15	53:1	2.3	8 7/8"	**3M329**
70	55.0 in.-lb.	175 lb.	1/15	23:1	2.3	8 7/8"	**3M330**
Split-Phase							
14	200.0 in.-lb.	175 lb.	1/15	118:1	1.5	9 7/8"	**2Z817**
30	125.0 in.-lb.	175 lb.	1/15	53:1	1.5	9 7/8"	**6K303**
68	55.0 in.-lb.	175 lb.	1/15	23:1	1.5	9 7/8"	**2Z818**
100	38.0 in.-lb.	175 lb.	1/15	17:1	1.5	9 7/8"	**2Z841**



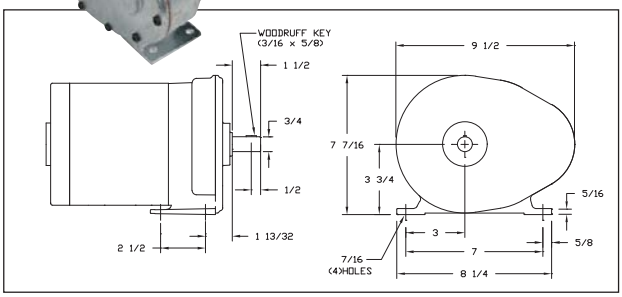


A.





B.



115VAC Split-Phase Parallel-Shaft Gearmotors

Dayton

- Enclosure: open dripproof
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: cut steel and phenolic
- Bearings: **A.** porous bronze sleeve on case; ball on motor
  B. ball on case and motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- UL and C-UL Recognized

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
A	6	600.0 in.-lb.	300 lb.	1/4	286:1	3.1	9 7/8"	**1LPP7**	*
	12	600.0 in.-lb.	300 lb.	1/7	144:1	3.3	9 5/8"	**1LPP6**	*
	18	550.0 in.-lb.	300 lb.	1/5	97:1	3.6	9 5/8"	**1LPP5**	*
	30	400.0 in.-lb.	190 lb.	1/4	57:1	3.9	9 5/8"	**1LPP4**	
	40	330.0 in.-lb.	190 lb.	1/4	43:1	4.1	9 5/8"	**1LPP3**	
	60	200.0 in.-lb.	190 lb.	1/4	29:1	3.9	9 5/8"	**1LPP2**	
	90	150.0 in.-lb.	150 lb.	1/4	19:1	4.1	9 5/8"	**1LPP1**	
	120	100.0 in.-lb.	110 lb.	1/4	14:1	3.9	9 5/8"	**1LPN9**	
B	31	800.0 in.-lb.	400 lb.	1/2	56:1	8.3	10"	**1LPU5**	
	62	400.0 in.-lb.	400 lb.	1/2	28:1	8.3	10"	**1LPU4**	
	92	287.0 in.-lb.	400 lb.	1/2	19:1	8.3	10"	**1LPU3**	

** Output torque is gear limited.*

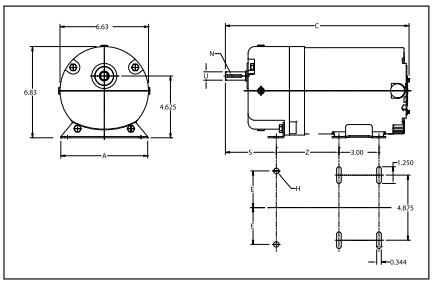
Dayton

115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Enclosure: open dripproof
- Gearcase: cast-iron
- Lubrication: factory filled with AGMA4 oil
- Gears: steel
- Bearings: ball on case; ball on motor
- Mounting: horizontal
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- UL Recognized and CSA Certified



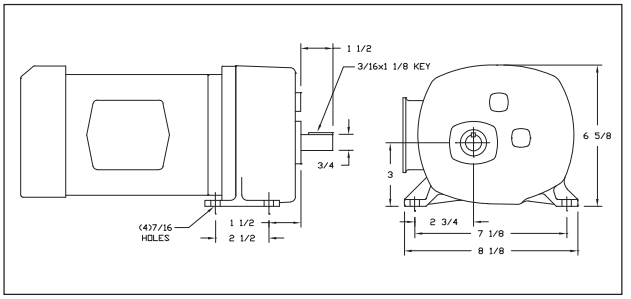
No. 4FDY9



Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Dimensions (in.) A	C	E	H	N	S	U	Z	Shaft Length	Item No.
Split-Phase, 115VAC															
45	438.0 in.-lb.	385 lb.	1/3	38:1	5.9	7.13	14.27	3.125	0.410	.2500 x 1.375	4 3/8"	1"	4.750	2.25"	**4FDY9**
89	219.0 in.-lb.	245 lb.	1/3	19:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5/8"	4.688	1.63"	**4FDZ1**
157	125.0 in.-lb.	245 lb.	1/3	11:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812"	5/8"	4.688	1.63"	**4FDZ2**
288	69.0 in.-lb.	245 lb.	1/3	6:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812"	5/8"	4.688	1.63"	**4FDZ3**
3-Phase, 208-230/460VAC															
157	125.0 in.-lb.	245 lb.	1/3	11:1	1.4-1.3/0.7	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5/8"	5.125	1.63"	**4FDZ4**



3-Phase
No. 4Z384



Dayton

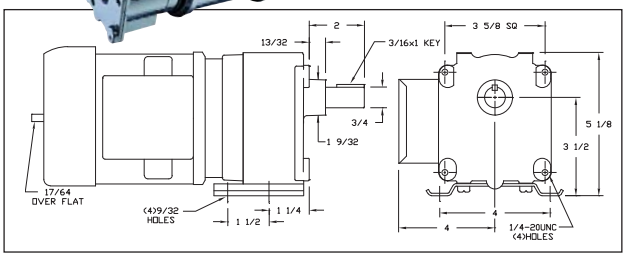
115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty ball and needle roller, and thrust balls on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: for split-phase adaptable to No. 4Z447; for 3-phase adaptable to No. 2LYV2 (order separately, see page 95)
- UL Recognized and CSA Certified

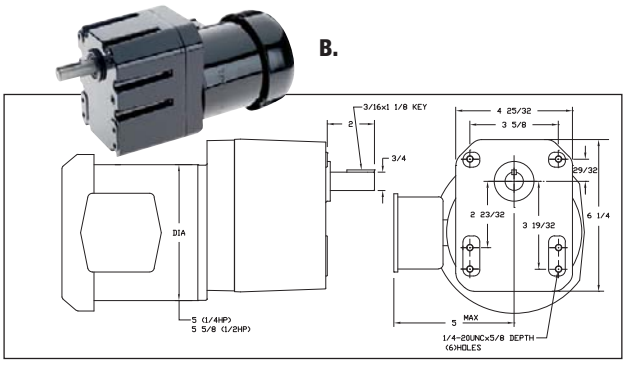
Nameplate RPM	Max. Torque	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
Split-Phase, 115VAC, Overhung Load 325 lb.							
5.4	1087.0 in.-lb.	¼	316:1	4	12 5/16"	**6Z399**	
8.5	974.0 in.-lb.	¼	210:1	4	12 5/16"	**6Z400**	
12	992.0 in.-lb.	¼	143:1	4	12 5/16"	**6K351**	
18	800.0 in.-lb.	¼	95:1	4	12 5/16"	**6Z401**	
18	1017.0 in.-lb.	⅓	95:1	5.5	12 5/16"	**6Z402**	
22	1105.0 in.-lb.	½	80:1	7.8	12¾"	**6Z403**	
27	500.0 in.-lb.	¼	64:1	4	12 5/16"	**6K352**	
27	700.0 in.-lb.	⅓	64:1	5.5	12 5/16"	**6K396**	
39	450.0 in.-lb.	⅓	43:1	5.5	12 5/16"	**2Z842**	
41	700.0 in.-lb.	½	43:1	7.8	12¾"	**6K375**	
59	240.0 in.-lb.	¼	29:1	4	12 5/16"	**6K353**	
59	320.0 in.-lb.	⅓	29:1	5.5	12 5/16"	**6K369**	
61	480.0 in.-lb.	½	29:1	7.8	12¾"	**6K583**	
89	220.0 in.-lb.	⅓	19:1	5.5	12 5/16"	**2Z843**	
91	320.0 in.-lb.	½	19:1	7.8	12¾"	**6K383**	
134	100.0 in.-lb.	¼	13:1	4	12 5/16"	**6K354**	
137	215.0 in.-lb.	½	13:1	7.8	12¾"	**6K506**	
153	125.0 in.-lb.	⅓	11:1	5.5	12 5/16"	**2Z844**	
276	70.0 in.-lb.	⅓	6:1	5.5	12 5/16"	**2Z845**	
3-Phase, 208-230/460VAC, Overhung Load 325 lb.							
18	1028.0 in.-lb.	⅓	95:1	1.32/0.66	12 5/16"	**6Z404**	*
21	1017.0 in.-lb.	½	80:1	1.79/0.89	12 5/16"	**6Z405**	
27	687.0 in.-lb.	⅓	64:1	1.32/0.66	12 5/16"	**4Z384**	*
40	483.0 in.-lb.	⅓	43:1	1.32/0.66	12 5/16"	**4Z385**	*
40	737.0 in.-lb.	½	43:1	1.79/0.89	12 5/16"	**4Z390**	
59	493.0 in.-lb.	½	29:1	1.79/0.89	12 5/16"	**4Z391**	
60	322.0 in.-lb.	⅓	29:1	1.32/0.66	12 5/16"	**4Z386**	*
89	327.0 in.-lb.	½	19:1	1.79/0.89	12 5/16"	**4Z392**	
90	214.0 in.-lb.	⅓	19:1	1.32/0.66	12 5/16"	**4Z387**	*
133	219.0 in.-lb.	½	13:1	1.79/0.89	12 5/16"	**4Z393**	
155	124.0 in.-lb.	⅓	11:1	1.32/0.66	12 5/16"	**4Z388**	*
276	105.0 in.-lb.	½	6:1	1.79/0.89	12 5/16"	**4Z394**	
279	69.0 in.-lb.	⅓	6:1	1.32/0.66	12 5/16"	**4Z389**	*

Operable on 190/380V, 50 Hz at 5/6 of 60 Hz ratings for HP and RPM.

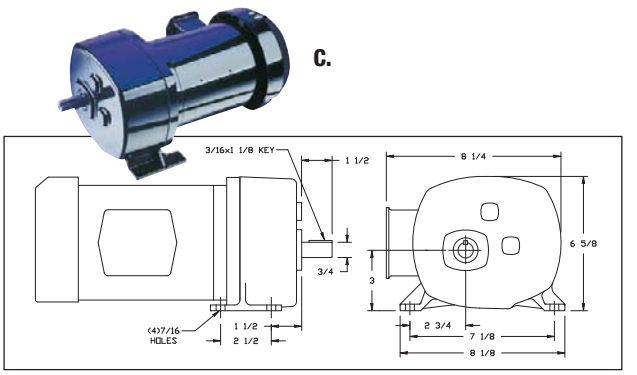
A.



B.



C.



Dayton

230VAC Inverter-Duty 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Operating range: 6 to 90 Hz
- Constant torque: 6 to 60 Hz
- Constant HP: 60 to 90 Hz
- No gear-limited ratios
- Lubrication: lifetime oil sealed
- Gears: hardened steel, AGMA Class 9
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: thermostat
- Ambient: 40°C
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
A	60	244.0 in.-lb.	257 lb.	¼	28:1	0.75	11 9/32"	**4ZJ52**	*
	90	165.0 in.-lb.	238 lb.	¼	19:1	0.75	11 9/32"	**4ZJ54**	*
	155	91.7 in.-lb.	206 lb.	¼	11:1	0.75	11 9/32"	**4ZJ55**	*
B	19	717.0 in.-lb.	900 lb.	¼	90:1	0.75	10¾"	**4ZJ49**	
	24	580.0 in.-lb.	750 lb.	¼	70:1	0.75	10¾"	**4ZJ50**	
	63.1	440.0 in.-lb.	600 lb.	½	28:1	1.6	14⅝"	**4ZJ53**	
C	29	941.0 in.-lb.	600 lb.	½	59:1	1.6	13⅞"	**4ZJ51**	
	282	100.0 in.-lb.	491 lb.	½	6:1	1.6	13⅞"	**4ZJ56**	

Unit has rear shaft extension.

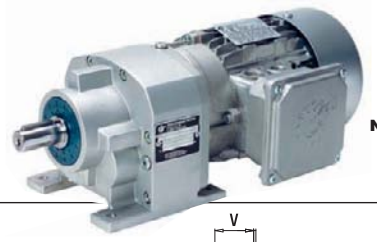
230/460VAC Helical Inverter-Duty 3-Phase Inline Gearmotors

NORD DRIVESYSTEMS

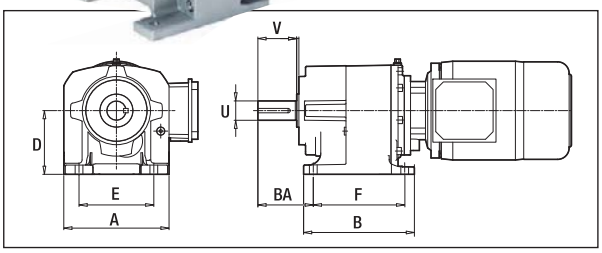
- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- 60/50 Hz
- Mounting: factory-filled with oil for horizontal foot mount, other mounting positions obtainable by field modifications
- Finish: cast-aluminum
- UL Recognized, CE and CSA Certified

NordBloc™ motors have 20:1 variable torque (VT) and 5:1 constant torque (CT). Unicase™ 1-pc. housing is dimensionally interchangeable with SEW Eurodrive.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.



No. 5NUA2



Series	Mounting Dim. (in.) A	B	E	F	Outline Dim. (in.) BA	D	V
SK172.1	5.31	5.45	4.33	4.33	2.28	2.95	1.57
SK372.1	5.71	6.3	4.33	5.12	2.95	3.54	1.97
SK572.1/SK573.1	7.48	7.87	5.31	6.5	3.94	4.53	2.75
SK673.1	8.27	9.25	5.91	7.68	3.94	5.12	2.75
SK772.1/SK773.1	9.06	9.65	6.69	8.07	4.53	5.51	3.15
SK873.1	11.42	12.2	8.46	10.24	5.51	7.09	3.94

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Shaft Dia. (Dim. U)	Keyway Size	Length Less Shaft	Mfr. Model	Item No.
28	1328 in.-lb	1311 lb.	½	60.8:1	1.90/0.95	1"	¼" x ⅛" x 1¼"	15.9"	SK372.1-71L/4, 60.83	**5NUA2**
28	3983.0 in.-lb.	2271 lb.	1	60.9:1	1.57	1¼"	5/16" x 5/32" x 2⅛"	17 31/32"	SK573.1-80LP/4, 60.97, 1.25	**39RK85**
28	3983.0 in.-lb.	2271 lb.	1	60.9:1	1.57	1⅜"	5/16" x 5/32" x 2⅛"	17 31/32"	SK573.1-80LP/4, 60.97	**39RK79**
29	15045.0 in.-lb.	3766 lb.	5	61:1	6.5	2⅛"	½" x ¼" x 2⅝"	24⅛"	SK873.1-112MP/4, 61.07	**39RL04**
31	7523.0 in.-lb.	2111 lb.	3	57.6:1	3.84	1⅝"	⅜" x 3/16" x 2¼"	20 45/64"	SK773.1-100LP/4, 57.64	**39RK83**
40	1505.0 in.-lb.	1189 lb.	1	43.2:1	1.57	1"	¼" x ⅛" x 1¼"	16 29/32"	SK372.1-80LP/4, 43.26	**39RL01**
40	7700.0 in.-lb.	1389 lb.	5	43.4:1	6.5	1⅝"	⅜" x 3/16" x 2¼"	22 37/64"	SK773.1-112MP/4, 43.43	**39RK98**
43	5664.0 in.-lb.	2241 lb.	3	41.5:1	3.84	1⅜"	5/16" x 5/32" x 2⅛"	21 17/32"	SK673.1-100LP/4, 41.54	**39RK94**
44	752 in.-lb	629 lb.	½	38.7:1	1.90/0.95	¾"	3/16" x 3/32" x 1¼"	13.35"	SK172.1-71L/4, 38.75	**5NUA5**
51	761.0 in.-lb.	629 lb.	½	34.5:1	1.90/0.95	¾"	3/16" x 3/32" x 1¼"	13.35"	SK172.1-71L/4, 34.52	**5NUA9**
51	1682.0 in.-lb.	1224 lb.	1	33.8:1	1.57	1"	¼" x ⅛" x 1¼"	16 29/32"	SK372.1-80LP/4, 33.84	**39RK87**
57	3894.0 in.-lb.	1561 lb.	3	30.9:1	3.84	1⅜"	5/16" x 5/32" x 2⅛"	20 49/64"	SK573.1-100LP/4, 30.93	**39RL02**
65	7257.0 in.-lb.	1639 lb.	5	26.8:1	6.5	1⅝"	⅜" x 3/16" x 2¼"	22 37/64"	SK772.1-112MP/4, 26.86	**39RK82**
71	814.0 in.-lb.	629 lb.	½	24.8:1	1.90/0.95	¾"	3/16" x 3/32" x 1¼"	13.35"	SK172.1-71L/4, 24.8	**5NUC3**
75	1770.0 in.-lb.	1237 lb.	1	23:1	3.14/1.57	1"	¼" x ⅛" x 1¼"	16 29/32"	SK372.1-80LP/4, 23	**39RK99**
90	3540.0 in.-lb.	1846 lb.	3	19.5:1	3.84	1¼"	5/16" x 5/32" x 2⅛"	20 49/64"	SK572.1-100LP/4, 19.57, 1.25	**39RK97**
90	3540.0 in.-lb.	1846 lb.	3	19.5:1	3.84	1⅜"	5/16" x 5/32" x 2⅛"	20 49/64"	SK572.1-100LP/4, 19.57	**39RK86**
90	3540.0 in.-lb.	1109 lb.	5	19.5:1	6.5	1⅜"	5/16" x 5/32" x 2⅛"	22⅝"	SK572.1-112MP/4, 19.57	**39RK77**
110	752.0 in.-lb.	630 lb.	1	15.7:1	1.57	¾"	3/16" x 3/32" x 1¼"	14 15/64"	SK172.1-80LP/4, 15.76	**39RL03**
111	289.0 in.-lb.	629 lb.	½	15.7:1	1.90/0.95	¾"	3/16" x 3/32" x 1¼"	13.35"	SK172.1-71L/4, 15.76	**5NUC8**
114	3806.0 in.-lb.	1209 lb.	5	15.3:1	6.5	1¼"	5/16" x 5/32" x 2⅛"	22⅝"	SK572.1-112MP/4, 15.38	**39RL07**
130	3629.0 in.-lb.	1796 lb.	3	13.6:1	3.84	1¼"	5/16" x 5/32" x 2⅛"	20 49/64"	SK572.1-100LP/4, 13.67, 1.25	**39RK93**
130	3629.0 in.-lb.	1796 lb.	3	13.6:1	3.84	1⅜"	5/16" x 5/32" x 2⅛"	20 49/64"	SK572.1-100LP/4, 13.67	**39RK90**

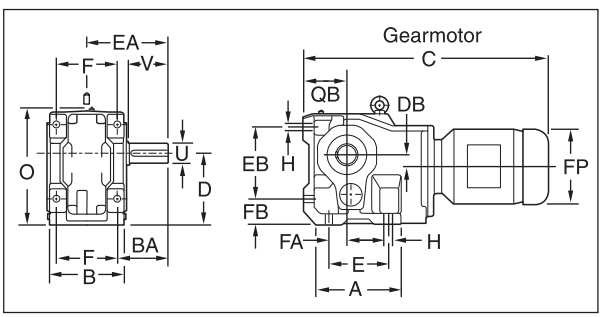
230/460VAC Helical Bevel Inverter-Duty 3-Phase Right-Angle Gearmotors

NORD DRIVESYSTEMS

- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- Mounting: factory-filled with oil for the horizontal foot mount; other mounting positions obtainable by field modification
- 60/50 Hz
- Finish: stainless steel paint, USDA H1 Compliant
- UL Recognized, CE and CSA Certified

20:1 variable torque and 5:1 constant torque. Dimensionally interchangeable with SEW Eurodrive. Unicase™ 1-piece housing.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60-Hz rating.



Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Mfr. Model	Item No.
17	931 in.-lb	1607 lb.	¼	97:1	1.1/0.56	SK9012.1-63L/4-97.36-A	**5YW26**
17	1770 in.-lb	1530 lb.	½	97:1	1.9/0.95	SK9012.1-71L/4-97.36-A	**5YW37**
18	3540.0 in.-lb.	1076 lb.	1	97.3:1	1.57	SK9012.1-80LP/4-97.36-A	**39RK89**
19	13722.0 in.-lb.	2504 lb.	3	95.5:1	3.84	SK9032.1-100LP/4-93.5-A	**39RK92**
23	3540.0 in.-lb.	1319 lb.	1	76.5:1	1.57	SK9012.1-80LP/4-76.53-A	**39RL05**
23	13720.0 in.-lb.	1694 lb.	5	75.9:1	6.5	SK9032.1-112MP/4-75.91-A	**39RK95**
24	13719.0 in.-lb.	2502 lb.	3	75.1:1	3.84	SK9032.1-100LP/4-75.16-A	**39RK88**
41	757 in.-lb	1616 lb.	½	42:1	1.9/0.95	SK9012.1-71L/4-41.65-A	**5YW35**
42	3540.0 in.-lb.	592 lb.	3	41.6:1	3.84	SK9012.1-100LP/4-41.65-A	**39RK91**
42	3540.0 in.-lb.	1438 lb.	½	41.6:1	2.10	SK9012.1-90SP/4-41.65-A	**39RL06**
43	13718.0 in.-lb.	1949 lb.	5	40.3:1	6.5	SK9032.1-112MP/4-40.36-A	**39RK78**
137	117.0 in.-lb.	1321 lb.	¼	12:1	1.1/0.56	SK9012.1-63L/4-12.23-A	**5YW22**
137	222 in.-lb.	1296 lb.	½	12:1	1.9/0.95	SK9012.1-71L/4-12.23-A	**5YW33**
142	1947.0 in.-lb.	1629 lb.	1	12.2:1	1.57	SK9012.1-80LP/4-12.23-A	**39RK96**
144	1947.0 in.-lb.	1575 lb.	3	12.2:1	3.84	SK9012.1-100LP/4-12.23-A	**39RK81**
144	1947.0 in.-lb.	1460 lb.	5	12.2:1	6.5	SK9012.1-112MP/4-12.23-A	**39RK84**



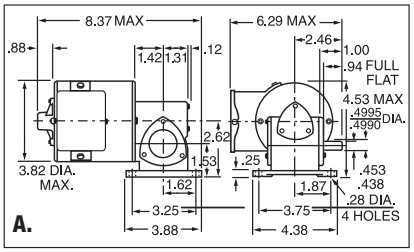
No. 5YW26

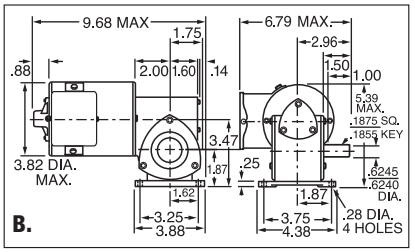
Gearmotor Series	FP	SK9012.1 C	SK9032.1 C
63L	5.12	17.09	—
71L	5.71	18.66	—
80LP	6.5	19.65	—
90SP	7.2	21.26	—
100LP	7.91	22.44	25.39
112MP	8.87	23.35	26.30

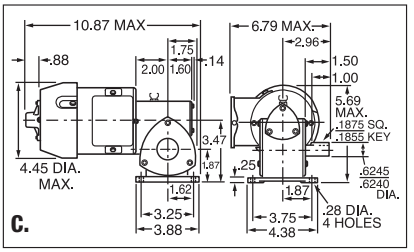
Series	Mounting Dim. (in.) A	B	E	EB	F	FA	FB	H	Outline Dim. (in.) BA	D	DB	EA	O	QB	Output Shaft Dim. (in.) U	V	Key
SK9012.1	6.77	5.51	5.12	5.12	4.72	1.38	1.46	0.43	2.95	4.41	0.39	5.32	7.64	2.8	1.25	2.36	¼ x ¼ x 2
SK9032.1	9.06	7.68	5.91	7.48	6.5	1.57	2.56	0.71	4.47	7.09	0.94	7.72	11.61	4.41	1.75	3.54	⅜ x ⅜ x 2 ¾











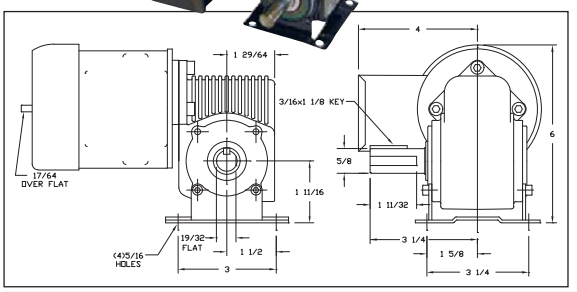
115VAC Permanent Split Capacitor Right-Angle Gearmotors

- Gearcase: zinc alloy
- Lubrication: TENV models grease-filled; TEFC models oil-filled
- Gears: TENV models hardened-steel worm, phenolic output gear; TEFC models hardened-steel worm, forged-bronze output gear
- Bearings: ball on case and motor
- Mounting: all-position except input motor shaft up
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to No. 5X400 using 1 disc with 1/20-HP, 2 discs with 1/12- and 1/8-HP models; see page 95
- UL Recognized and CSA Certified

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Capacitor Req.	Item No.
TENV								
A	43	21.0 in.-lb.	70 lb.	1/20	40:1	1	2MDV3	**1XFY2**
	86	22.0 in.-lb.	60 lb.	1/20	20:1	1	2MDV3	**1XFY3**
	173	13.0 in.-lb.	50 lb.	1/20	10:1	1	2MDV3	**1XFY4**
B	43	55.0 in.-lb.	110 lb.	1/12	40:1	1.3	2MDV5	**1XFY5**
	86	41.0 in.-lb.	90 lb.	1/12	20:1	1.3	2MDV5	**1XFY6**
	173	23.0 in.-lb.	70 lb.	1/12	10:1	1.3	2MDV5	**1XFY7**
TEFC								
C	29	85.0 in.-lb.	130 lb.	1/8	60:1	2	2MDV9	**1XFY8**
	43	77.0 in.-lb.	110 lb.	1/8	40:1	2	2MDV9	**1XFY9**
	57	68.0 in.-lb.	100 lb.	1/8	30:1	2	2MDV9	**1XFZ1**
	86	55.0 in.-lb.	90 lb.	1/8	20:1	2	2MDV9	**1XFZ2**
	173	31.0 in.-lb.	70 lb.	1/8	10:1	2	2MDV9	**1XFZ3**



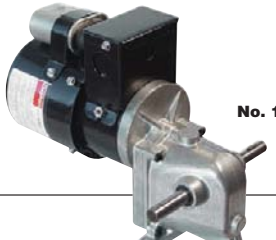


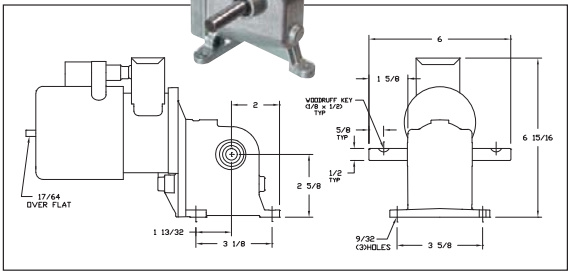
115/230VAC Permanent Split Capacitor Right-Angle Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened steel worm, bronze output gear
- Bearings: needle bearing on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Reversible shaft output
- Rotation: reversible
- Thermal protection: none
- Dual output shafts
- Ambient: 40°C
- Capacitor: included
- Overall depth 9¾"
- Brake: adaptable to No. 5X400 (order separately; see page 95)
- UL and C-UL Recognized

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM @ 60 Hz	Nameplate RPM @ 50 Hz	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
55	48	130.0 in.-lb.	200 lb.	1/4	30:1	2.35/1.25	**3XA90**
80	71	108.0 in.-lb.	200 lb.	1/4	20:1	2.35/1.25	**3XA89**
160	138	62.0 in.-lb.	200 lb.	1/4	10:1	2.35/1.25	**3XA88**
330	276	15.0 in.-lb.	200 lb.	1/4	5:1	2.35/1.25	**3XA87**



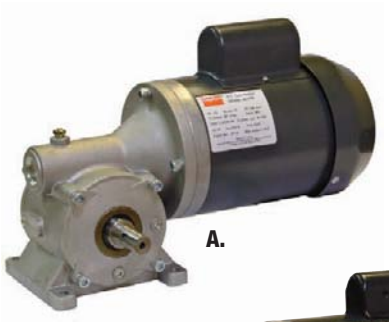


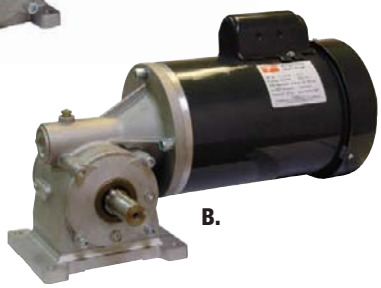
115/230VAC Dual Shaft Permanent Split Capacitor Right-Angle Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to No. 5X400 using 1 disc; see page 95
- Overall depth 11⅝"
- Capacitor included
- UL and C-UL Recognized, and CE Certified

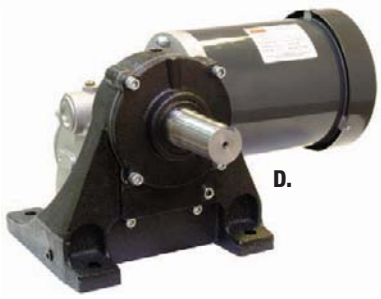
Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
1.5	250.0 in.-lb.	100 lb.	1/12	1205:1	1.2/0.63	**1LPZ3**
3	200.0 in.-lb.	100 lb.	1/12	525:1	1.2/0.63	**1LPZ2**
5.6	200.0 in.-lb.	100 lb.	1/12	275:1	1.2/0.63	**1LPY9**
9.5	200.0 in.-lb.	100 lb.	1/12	161:1	1.2/0.63	**1LPZ1**
21	170.0 in.-lb.	100 lb.	1/12	70:1	1.2/0.63	**1LPY8**
40	89.0 in.-lb.	100 lb.	1/12	37:1	1.2/0.63	**1LPY5**

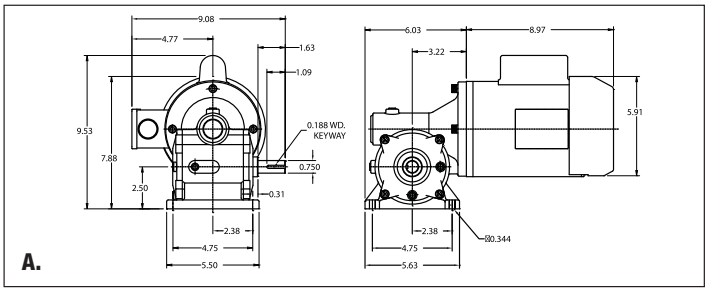

A.

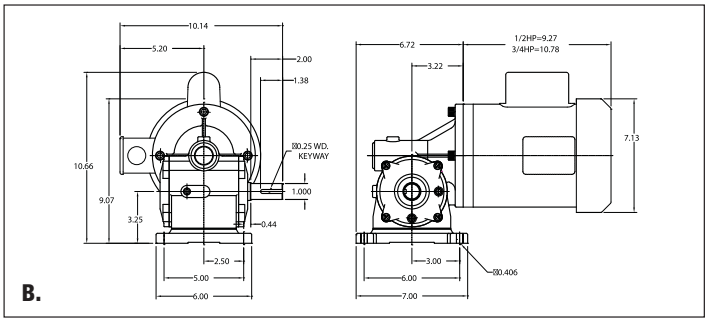

B.

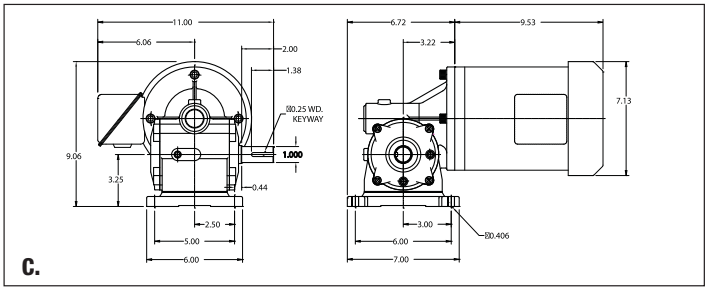

C.

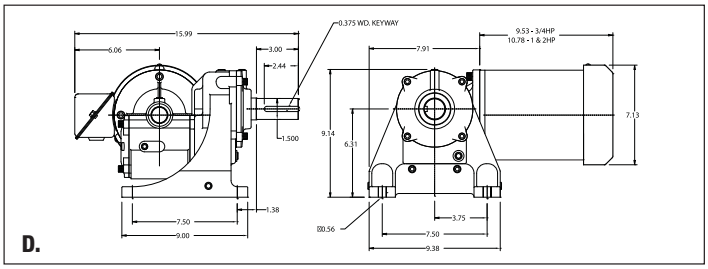

D.

Dayton









115/208-230VAC Capacitor-Start and 230/460VAC 3-Phase Right-Angle Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened-steel worm, forged-bronze output gear
- Bearings: roller bearings on case; ball on motor
- Mounting: horizontal, vertical, or at 90° angles
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- UL Recognized and CSA Certified

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
Capacitor-Start, 115/208-230VAC, 60 Hz						
Key A						
30	381.0 in.-lb.	670 lb.	⅓	58:1	5.6/2.8	**4CVT9**
45	299.0 in.-lb.	670 lb.	⅓	39:1	5.6/2.8	**4CVU1**
	456.0 in.-lb.	670 lb.	½	39:1	6.6/3.3	**4CVU3**
56	390.0 in.-lb.	670 lb.	½	31:1	6.6/3.3	**4CVT7**
100	163.0 in.-lb.	670 lb.	⅓	18:1	5.6/2.8	**4CUK7**
	254.0 in.-lb.	670 lb.	½	18:1	6.6/3.3	**4CVU5**
155	173.0 in.-lb.	670 lb.	½	11:1	6.6/3.3	**4CVU6**
Capacitor-Start, 115/208-230VAC, 60/50 Hz						
Key B						
30	680.0 in.-lb.	980 lb.	½	58:1	8.4/4.2	**4CVZ3**
45	743.0 in.-lb.	980 lb.	¾	39:1	11.2/5.6	**4CVZ4**
84	456.0 in.-lb.	882 lb.	¾	21:1	11.2/5.6	**4CVZ2**

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3-Phase, 208-230/460VAC, 60/50 Hz*						
Key C						
30	680.0 in.-lb.	980 lb.	½	58:1	2.0-1.9/0.95	**4CVU7**
37	855.0 in.-lb.	980 lb.	¾	47:1	2.7-3.0/1.5	**4CVY1**
45	507.0 in.-lb.	980 lb.	½	39:1	2.0-1.9/0.95	**4CVU8**
	743.0 in.-lb.	980 lb.	¾	39:1	2.7-3.0/1.5	**4CVY6**
	966.0 in.-lb.	980 lb.	1	39:1	3.4-3.4/1.7	**4CVX5**
56	633.0 in.-lb.	980 lb.	¾	31:1	2.7-3.0/1.5	**4CVY2**
	835.0 in.-lb.	980 lb.	1	31:1	3.4-3.4/1.7	**4CVY4**
68	367.0 in.-lb.	932 lb.	½	26:1	2.0-1.9/0.95	**4CVU9**
	537.0 in.-lb.	932 lb.	¾	26:1	2.7-3.0/1.5	**4CVY7**
	796.0 in.-lb.	882 lb.	1	26:1	3.4-3.4/1.7	**4CVX2**
84	605.0 in.-lb.	882 lb.	1	21:1	3.4-3.4/1.7	**4CVY5**
100	265.0 in.-lb.	831 lb.	½	18:1	2.0-1.9/0.95	**4CVX1**
	522.0 in.-lb.	831 lb.	1	18:1	3.4-3.4/1.7	**4CVX3**
155	269.0 in.-lb.	723 lb.	¾	11:1	2.7-3.0/1.5	**4CVY9**
	357.0 in.-lb.	723 lb.	1	11:1	3.4-3.4/1.7	**4CVX4**
	711.0 in.-lb.	723 lb.	2	11:1	6.4-6.4/3.2	**4CVX6**
Key D						
30	876.0 in.-lb.	883 lb.	¾	57:1	2.7-3.0/1.5	**4FDY8**
	1168.0 in.-lb.	883 lb.	1	57:1	3.4-3.4/1.7	**4FDY4**
45	2410 in.-lb.	894 lb.	2	37:1	6.4-6.3/3.2	**4FDY5**
68	1143.0 in.-lb.	827 lb.	2	25:1	6.4-6.4/3.2	**4FDY6**

** Operable on 190/380V, 50 Hz, with HP and rpm at 5/6 of the 60-Hz ratings.*


No. 46E525

115VAC and 230VAC Hypoid Hollow-Shaft Right-Angle Gearmotors

PowerSTAR BISON

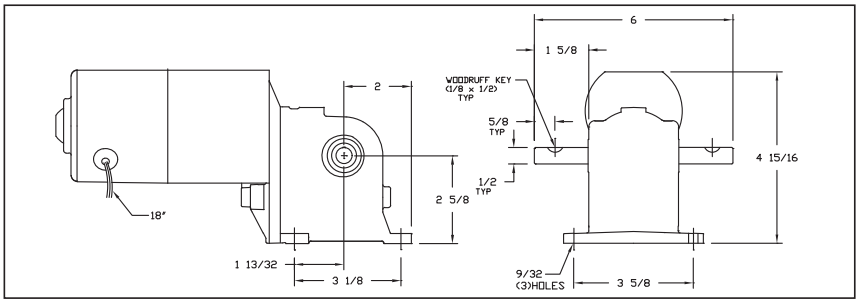
- Enclosure: TEFC
- Gearcase: die-cast aluminum
- Lubrication: extreme-pressure grease
- Gears: hardened steel; 1st stage hypoid AGMA Class 10, subsequent stages are helical AGMA Class 9
- 60 Hz for 115VAC; 6-90 Hz for 230VAC
- Bearings: ball
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Max. ambient: 40°C
- IP-54 rating
- UL and C-UL Recognized, and CE Certified

PowerSTAR™ design delivers higher torque at improved efficiencies for packaging and light- to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low-backlash operation. Compact profile and mounting is dimensionally interchangeable with Brother F3 series and many European gearmotors. Flange version also available on Grainger.com®. For PowerSTAR accessories, see page 85.

				115VAC, 1 PHASE					230VAC, 3 PHASE, INVERTER DUTY			
Nameplate RPM*	Max. Torque	Input HP	Gear Ratio	Full Load Amps*	Overall Length	Capacitor Req.	Mfr. Model	Item No.	Full Load Amps*	Overall Length	Mfr. Model	Item No.
720 Series												
7	470.0 in.-lb.	1/15	240:1	1	13.12"	24MA47	026-720A0240	**46E563**	0.39	13.09"	027-720G0240	**46E576**
9.3	355.0 in.-lb.	1/15	180:1	1	13.12"		026-720A0180	**46E562**	0.39	13.09"	027-720G0180	**46E575**
16.8	365.0 in.-lb.	⅛	100:1	1.70	14.14"		026-720A0100	**46E559**	0.63	13.09"	027-720G0100	**46E572**
21	295.0 in.-lb.	⅛	80:1	1.70	14.14"		026-720A0080	**46E558**	0.63	13.09"	027-720G0080	**46E571**
33.6	180.0 in.-lb.	⅛	50:1	1.70	14.14"		026-720A0050	**46E556**	0.63	13.09"	027-720G0050	**46E569**
42.2	145.0 in.-lb.	⅛	40:1	1.70	14.14"	24MA48	026-720A0040	**46E555**	0.63	13.09"	027-720G0040	**46E568**
56.2	105.0 in.-lb.	⅛	30:1	1.70	14.14"		026-720A0030	**46E554**	0.63	13.09"	027-720G0030	**46E567**
84.3	73.0 in.-lb.	⅛	20:1	1.70	14.14"		026-720A0020	**46E553**	0.63	13.09"	027-720G0020	**46E566**
112.4	55.0 in.-lb.	⅛	15:1	1.70	14.14"		026-720A0015	**46E552**	0.63	13.09"	027-720G0015	**46E565**
168.6	35.0 in.-lb.	⅛	10:1	1.70	14.14"		026-720A0010	**46E551**	0.63	13.09"	027-720G0010	**46E564**
725 Series												
9.3	680.0 in.-lb.	⅛	180:1	1.86	13.62"	41C241	026-725A0180	**41C218**	0.85	13.62"	027-725G0180	**41C231**
11.2	570.0 in.-lb.	⅛	150:1	1.86	13.62"		026-725A0150	**41C217**	0.85	13.62"	027-725G0150	**41C230**
14	450.0 in.-lb.	⅛	120:1	1.86	13.62"		026-725A0120	**41C216**	0.85	13.62"	027-725G0120	**41C229**
21	480.0 in.-lb.	⅕	80:1	2.6	15.37"		026-725A0080	**41C227**	1.1	13.62"	027-725G0080	**41C240**
28	360.0 in.-lb.	⅕	60:1	2.6	15.37"		026-725A0060	**41C226**	1.1	13.62"	027-725G0060	**41C239**
33.6	300.0 in.-lb.	⅕	50:1	2.6	15.37"		026-725A0050	**41C225**	1.1	13.62"	027-725G0050	**41C238**
56.2	180.0 in.-lb.	⅕	30:1	2.6	15.37"	41C242	026-725A0030	**41C223**	1.1	13.62"	027-725G0030	**41C236**
84.3	120.0 in.-lb.	⅕	20:1	2.6	15.37"		026-725A0020	**41C222**	1.1	13.62"	027-725G0020	**41C235**
112.4	90.0 in.-lb.	⅕	15:1	2.6	15.37"		026-725A0015	**41C221**	1.1	13.62"	027-725G0015	**41C234**
168.6	60.0 in.-lb.	⅕	10:1	2.6	15.37"		026-725A0010	**41C220**	1.1	13.62"	027-725G0010	**41C233**
730 Series												
11.2	1090.0 in.-lb.	¼	150:1	3.35	14.34"		026-730A0150	**46E535**	1.55	14.34"	027-730G0150	**46E548**
14	871.0 in.-lb.	¼	120:1	3.35	14.34"	24MA49	026-730A0120	**46E534**	1.55	14.34"	027-730G0120	**46E547**
16.8	725.0 in.-lb.	¼	100:1	3.35	14.34"		026-730A0100	**46E533**	1.55	14.34"	027-730G0100	**46E546**
21	766.0 in.-lb.	⅓	80:1	4.84	16.09"		026-730A0080	**46E532**	1.70	14.34"	027-730G0080	**46E545**
33.6	479.0 in.-lb.	⅓	50:1	4.84	16.09"		026-730A0050	**46E530**	1.70	14.34"	027-730G0050	**46E543**
42.2	382.0 in.-lb.	⅓	40:1	4.84	16.09"		026-730A0040	**46E529**	1.70	14.34"	027-730G0040	**46E542**
56.2	286.0 in.-lb.	⅓	30:1	4.84	16.09"	24MA50	026-730A0030	**46E528**	1.70	14.34"	027-730G0030	**46E541**
84.3	191.0 in.-lb.	⅓	20:1	4.84	16.09"		026-730A0020	**46E527**	1.70	14.34"	027-730G0020	**46E540**
112.4	143.0 in.-lb.	⅓	15:1	4.84	16.09"		026-730A0015	**46E526**	1.70	14.34"	027-730G0015	**46E539**
168.6	95.0 in.-lb.	⅓	10:1	4.84	16.09"		026-730A0010	**46E525**	1.70	14.34"	027-730G0010	**46E538**

** @60 Hz.*


Right-Hand Output



Dayton

Universal 115VAC/DC Right-Angle Gearmotors

- Enclosure: vented
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: input gear steel; output gear cast iron
- Bearings: bronze sleeve on case and motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Brushes: replaceable; approx. 300-hr. life
- Ambient: 40°C
- Overall depth: 8⅞"
- Input power: 1/15 HP
- UL and C-UL Recognized

Description	Item No.
Replacement Parts	
AC/DC Input Motor, 115V, 5000 rpm	**1MDU9**
Brushes, Pkg. of 6	**1YNR3**

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Full Load Torque	Overhung Load	Gear Ratio	Full Load Amps	LEFT HAND OUTPUT Item No.*	RIGHT HAND OUTPUT Item No.	DUAL OUTPUT Item No.
4.5	250 in.-lb.	100 lb.	1714:1	1.1	**1LRA6**	**1LRA7**	—
8	150 in.-lb.	100 lb.	747:1	1.3	**1LRA4**	**1LRA5**	—
13	84 in.-lb.	100 lb.	391:1	1.3	**1LRA2**	**1LRA3**	—
24	85 in.-lb.	100 lb.	229:1	1.3	**1LPZ8**	**1LPZ9**	**1LRA1** †
55	39 in.-lb.	100 lb.	100:1	1.3	**1LPZ5**	**1LPZ7**	—
90	18 in.-lb.	100 lb.	52:1	1.3	**1LPZ4**	**1LPZ6**	—

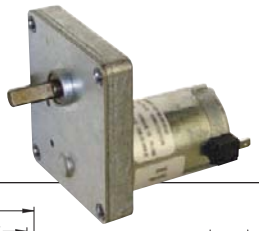
**Output shaft viewed facing lead end of motor. †Double output shaft.*

12VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

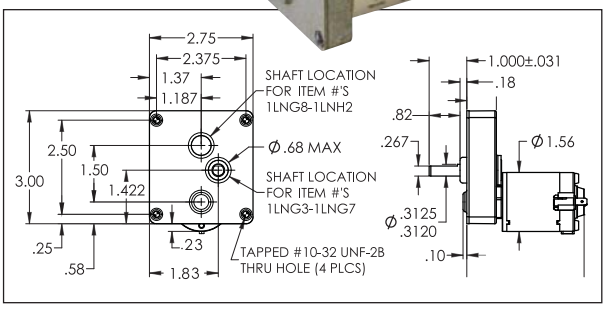
Dayton®

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
0.5	50.0 in.-lb.	40 lb.	1/2000	2476:1	0.15	3¼"	**1LNG3**
1.5	25.0 in.-lb.	40 lb.	1/1000	931:1	0.16	3¼"	**1LNG4**
4.5	38.1 in.-lb.	40 lb.	1/200	530:1	0.60	3¼"	**1LNG6**
9	35.0 in.-lb.	40 lb.	1/120	492:1	1.00	3¼"	**1LNG7**
12	40.0 in.-lb.	40 lb.	1/90	254:1	1.10	3¼"	**1LNG8**
17	16.0 in.-lb.	13 lb.	1/160	254:1	0.75	3"	**1LNG9**
25	16.0 in.-lb.	13 lb.	1/150	172:1	1.00	3¼"	**1LNH1**
50	10.0 in.-lb.	13 lb.	1/90	74:1	1.10	3¼"	**1LNH2**



No. 1LNG7

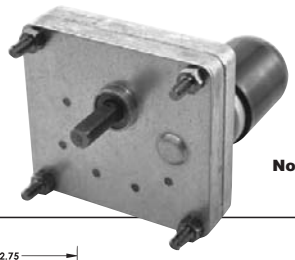


12VDC and 24VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

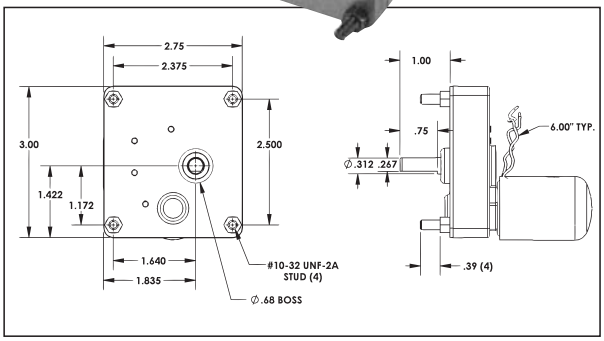
Dayton®

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur, power metal and steel
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12VDC							
0.5	50.0 in.-lb.	30 lb.	1/2800	4672:1	0.10	3"	**52JE46**
1.5	46.0 in.-lb.	30 lb.	1/2800	3822:1	0.30	3"	**52JE47**
3.4	44.0 in.-lb.	30 lb.	1/425	1575:1	0.50	3"	**52JE48**
4.5	43.0 in.-lb.	30 lb.	1/325	2027:1	0.70	3"	**52JE49**
8.8	41.0 in.-lb.	30 lb.	1/175	938.2:1	1.00	3"	**52JE50**
12	40.0 in.-lb.	30 lb.	1/125	594.4:1	1.30	3"	**52JE51**
17	30.0 in.-lb.	30 lb.	1/125	384:1	1.40	3"	**52JE52**
25	20.0 in.-lb.	30 lb.	1/125	273.8:1	1.30	3"	**52JE53**
50	10.0 in.-lb.	30 lb.	1/125	139.8:1	1.10	3"	**52JE54**
24VDC							
1.3	50.0 in.-lb.	30 lb.	1/230	4672:1	0.16	3"	**52JE55**
4.4	50.0 in.-lb.	30 lb.	1/230	2478:1	0.35	3"	**52JE56**
8	34.0 in.-lb.	30 lb.	1/200	1430.8:1	0.38	3"	**52JE57**
12	24.0 in.-lb.	30 lb.	1/200	938.2:1	0.38	3"	**52JE58**
22	50.0 in.-lb.	30 lb.	1/50	300:1	1.40	3 3⁄64"	**52JE59**
45	28.0 in.-lb.	30 lb.	1/50	78.6:1	1.40	3 3⁄64"	**52JE60**



No. 52JE46



12VDC and 90VDC Permanent-Magnet Parallel-Shaft Gearmotors

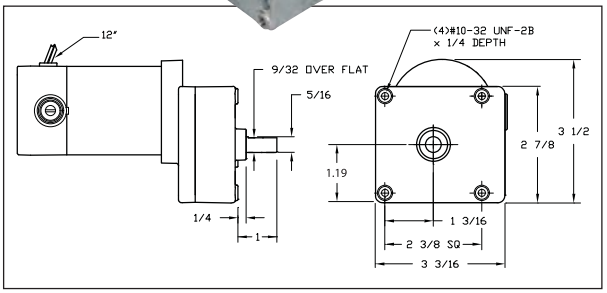
Dayton®

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel and acetal
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft
- 90VDC models accept direct motor-mount speed control No. 2PUX3, sold on page 85
- UL and C-UL Recognized

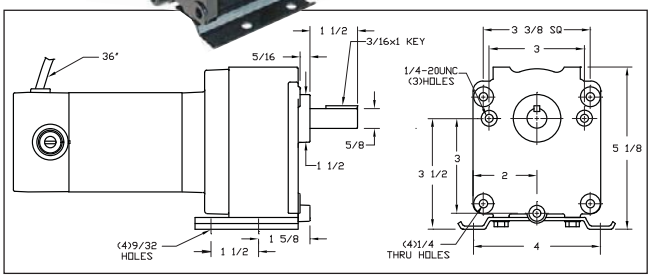
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12VDC							
6	50.0 in.-lb.	50 lb.	1/30	430:1	2.10	6⅛"	**1LPV8**
9	50.0 in.-lb.	50 lb.	1/30	273:1	2.10	6⅛"	**1LPV7**
17	50.0 in.-lb.	50 lb.	1/30	141:1	2.10	5⅝"	**1LPV6**
24	40.0 in.-lb.	50 lb.	1/30	100:1	2.10	5⅝"	**1LPV5**
39	26.0 in.-lb.	50 lb.	1/30	62:1	2.10	5⅝"	**1LPV4**
76	13.0 in.-lb.	50 lb.	1/30	32:1	2.10	5⅝"	**1LPV3**
90VDC							
7	50.0 in.-lb.	50 lb.	1/30	430:1	0.35	6⅛"	**1LPV9**
11	50.0 in.-lb.	50 lb.	1/30	273:1	0.35	6⅛"	**1LPW1**
21	50.0 in.-lb.	50 lb.	1/30	141:1	0.35	5⅝"	**1LPW2**
29	40.0 in.-lb.	50 lb.	1/30	100:1	0.35	5⅝"	**1LPW3**
47	26.0 in.-lb.	50 lb.	1/30	62:1	0.35	5⅝"	**1LPW4**
93	13.0 in.-lb.	50 lb.	1/30	32:1	0.35	5⅝"	**1LPW5**
Replacement Motor Brush Sets							
12VDC							**6YHY4**
90VDC							**6YHY3**



No. 1LPV8







12VDC Permanent-Magnet Parallel-Shaft Gearmotors

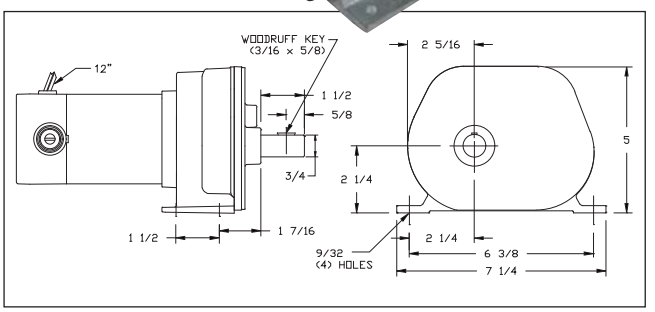
Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- UL and C-UL Recognized
- Accept pulse generators Nos. 6Z392 or 5JJ65, sold on page 159

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
23	280.0 in.-lb.	150 lb.	1/6	82:1	9.75	10⅛"	**1Z820** *
31	278.0 in.-lb.	150 lb.	1/6	58:1	14.50	10⅛"	**1Z822**
50	183.0 in.-lb.	150 lb.	1/6	36:1	14.50	10⅛"	**1Z824**
64	150.0 in.-lb.	150 lb.	1/6	28:1	14.50	10⅛"	**1Z826**
94	102.0 in.-lb.	150 lb.	1/6	19:1	14.50	10⅛"	**1Z831**
170	57.0 in.-lb.	150 lb.	1/6	11:1	14.50	10⅛"	**1Z833**
Replacement Part							
Motor Brush Set							**6YHY5**

Gear limited.





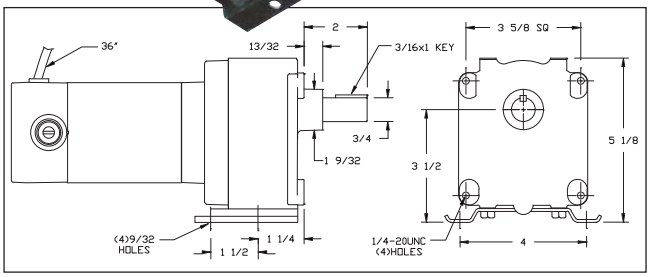
Dayton

12VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft
- UL and C-UL Recognized

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6	500.0 in.-lb.	250 lb.	1/15	267:1	6.20	8½"	**1LPK9**
12	250.0 in.-lb.	250 lb.	1/15	135:1	6.20	8½"	**1LPK7**
20	150.0 in.-lb.	250 lb.	1/15	81:1	6.20	8½"	**1LPK4**
42	75.0 in.-lb.	250 lb.	1/15	38:1	6.20	8½"	**1LPK3**
58	75.0 in.-lb.	250 lb.	1/10	55:1	9.00	8½"	**1LPK2**
84	50.0 in.-lb.	250 lb.	1/10	38:1	9.00	8½"	**1LPK1**
Replacement Part							
Motor Brush Set							**6YHY5**





Dayton

24VDC Permanent-Magnet Parallel-Shaft Gearmotors

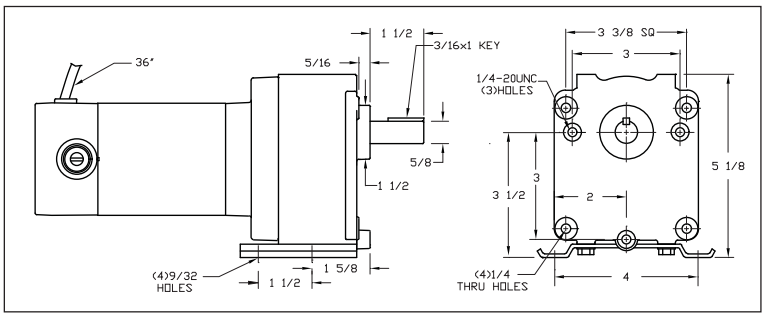
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle with thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shafts
- Gear limited
- UL and C-UL Recognized
- Accept pulse generators Nos. 6Z392 or 5JJ65, sold on page 159

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
8.3	310 in.-lb.	695 lb.	⅛	216:1	2.50	10⅜"	**4ZJ45**
20	254 in.-lb.	500 lb.	⅛	88:1	4.50	10⅜"	**4ZJ46**
30	254 in.-lb.	291 lb.	⅛	60:1	5.45	10⅜"	**1L848**
64	113 in.-lb.	291 lb.	⅛	28:1	5.45	10⅜"	**4ZJ47**
120	60 in.-lb.	250 lb.	⅛	15:1	5.45	10⅜"	**4ZJ48**
Replacement Part							
Motor Brush Set							**6YHY5**

Find the CAD files you need on Grainger.com®



No. 6A193



90VDC Permanent-Magnet Parallel-Shaft Gearmotors

★Dayton®

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- UL and C-UL Recognized
- 1/20- and ⅛-HP units accept direct motor-mount speed control No. 2PUX3, sold on page 85
- Accept pulse generator Nos. 6Z392 or 5JJ65, sold on page 159

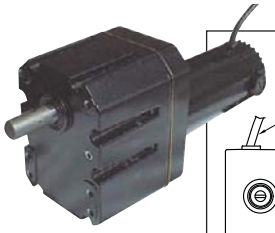
Nameplate RPM	Max. Torque	Overhung Load	Gear Ratio	Full Load Amps	Length Less Shaft	Replacement Brushes	Item No.	
1/20 Input HP								
5.4	227.0 in.-lb.	150 lb.	336:1	0.40	8⅝"	6YHY3	**6A193**	*
8.7	250.0 in.-lb.	150 lb.	208:1	0.53	8⅝"	6YHY3	**6A194**	*
18	150.0 in.-lb.	150 lb.	101:1	0.62	8⅝"	6YHY3	**4Z134**	
34	82.0 in.-lb.	150 lb.	53:1	0.62	8⅝"	6YHY3	**4Z133**	
51	55.0 in.-lb.	150 lb.	35:1	0.62	8⅝"	6YHY3	**4Z132**	
109	27.0 in.-lb.	150 lb.	17:1	0.62	8⅝"	6YHY3	**4Z131**	
⅛ Input HP								
22	280.0 in.-lb.	150 lb.	82:1	1.41	10⅛"	6YHY6	**4Z130**	*
31	220.0 in.-lb.	150 lb.	58:1	1.41	10⅛"	6YHY6	**4Z383**	
50	138.0 in.-lb.	150 lb.	36:1	1.41	10⅛"	6YHY6	**4Z129**	
64	113.0 in.-lb.	150 lb.	28:1	1.41	10⅛"	6YHY6	**4Z382**	
94	77.0 in.-lb.	150 lb.	19:1	1.41	10⅛"	6YHY6	**4Z381**	
170	43.0 in.-lb.	150 lb.	11:1	1.41	10⅛"	6YHY6	**4Z128**	
¼ Input HP								
42	280.0 in.-lb.	215 lb.	43:1	2.30	12⅛"	6YHZ0	**2H579**	
62	235.0 in.-lb.	235 lb.	29:1	2.51	12⅛"	6YHZ0	**2H577**	
90	160.0 in.-lb.	200 lb.	19:1	2.51	12⅛"	6YHZ0	**2H575**	
165	90.0 in.-lb.	200 lb.	11:1	2.51	12⅛"	6YHZ0	**2H573**	
350	40.0 in.-lb.	170 lb.	5:1	2.51	12⅛"	6YHZ0	**2H571**	

** Gear limited.*

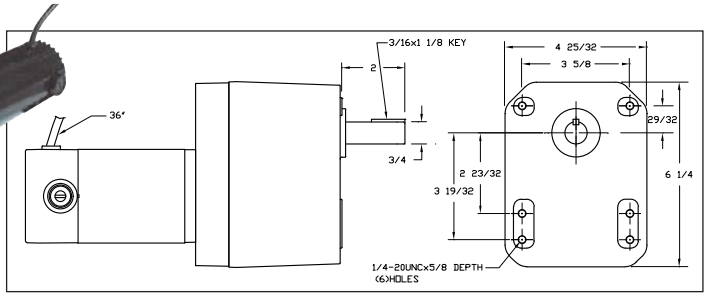
90VDC Permanent-Magnet Parallel-Shaft Gearmotors

★Dayton®

- Enclosure: totally enclosed nonventilated
- Bearings: needles throughout with thrust balls on case, ball on motor
- Optional mounting bracket, No. 2H630, available on Grainger.com®
- Seals: spring-loaded lip-type on input and output shafts
- UL and C-UL Recognized
- Accept pulse generator Nos. 6Z392 or 5JJ65, see page 159



No. 2H588



Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.		REPLACEMENT MOTOR BRUSH SETS Item No.
1.3	710 in.-lb.	900 lb.	1/20	1413:1	0.36	9⅞"	**2H594**		**6YHY3**
6.5	710 in.-lb.	900 lb.	⅛	276:1	1.00	12½"	**2H592**	*	**6YHY6**
13	660.0 in.-lb.	900 lb.	⅛	138:1	1.70	12½"	**2H590**		**6YHY6**
15	570.0 in.-lb.	900 lb.	⅛	116:1	1.70	12½"	**2H588**		**6YHY6**

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

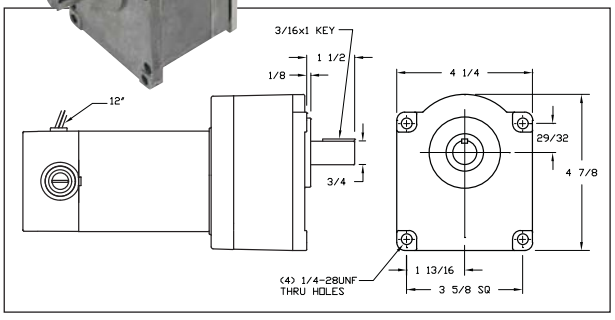
★Dayton®

- Enclosure: totally enclosed nonventilated
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel
- Bearings: ball and needle on case; ball on motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts
- UL and C-UL Recognized
- Accept direct motor-mount speed control No. 2PUX3, sold on page 85

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6	500 in.-lb.	300 lb.	1/11	264:1	1.10	8⅞"	**1LPY4**
12	350 in.-lb.	300 lb.	1/10	131:1	1.10	8⅞"	**1LPY3**
29	156 in.-lb.	300 lb.	1/10	55:1	1.10	8⅞"	**1LPY2**
42	105 in.-lb.	300 lb.	1/10	37:1	1.10	8⅞"	**1LPY1**
61	78 in.-lb.	300 lb.	1/10	26:1	1.10	8⅞"	**1LPX9**
152	30 in.-lb.	300 lb.	1/10	10:1	1.10	8⅞"	**1LPX8**
Replacement Motor Brush Set							
Motor Brush Set							**6YHY6**



No. 1LPY4

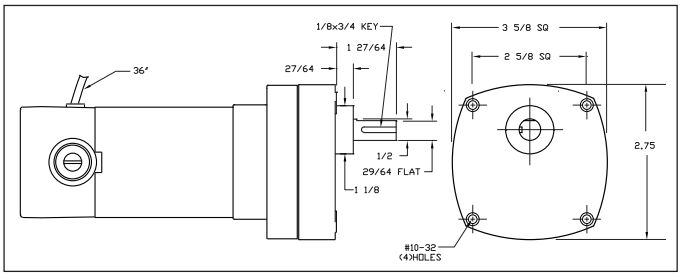



No. 6Z913

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

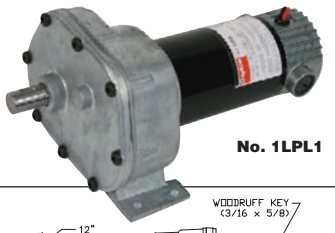
Dayton

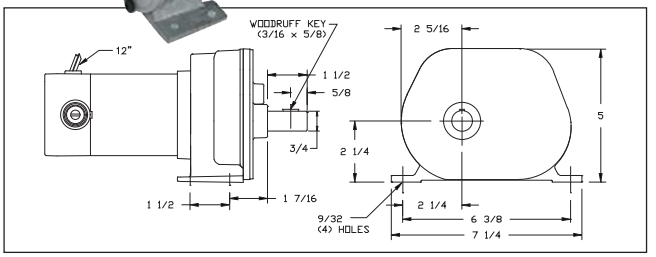
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: 1st stage steel, helical; subsequent stages steel or heat-treated powdered metal spur
- Bearings: needle on case output shaft; ball on motor
- Mounting: all-position; for optional base mounting bracket No. 2A754, available on Grainger.com®
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shaft
- UL and C-UL Recognized
- Accept direct motor-mount speed control No. 2PUX3 sold on page 85
- Accept pulse generator Nos. 6Z392 or 5JJ65, sold on page 159



Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	REPLACEMENT MOTOR BRUSH SETS Item No.
2.6	100.0 in.-lb.	90 lb.	1/40	702:1	0.36	7 3/8"	6Z910	6YHY3
5	100.0 in.-lb.	90 lb.	1/40	362:1	0.36	7 3/8"	6Z911	6YHY3
	160.0 in.-lb.	115 lb.	1/20	362:1	0.26	8"	2H569 *	6YHY3
9.6	100.0 in.-lb.	90 lb.	1/40	186:1	0.36	7 3/8"	6Z912	6YHY3
19	150.0 in.-lb.	150 lb.	1/20	96:1	0.58	7 3/8"	2H567 *	6YHY3
20	100.0 in.-lb.	90 lb.	1/20	96:1	0.62	7 1/2"	6Z913	6YHY3
37	74.0 in.-lb.	90 lb.	1/20	49:1	0.62	7 1/2"	6Z914	6YHY3
	150.0 in.-lb.	130 lb.	1/10	49:1	1.08	8 3/4"	2H565	6YHY6
71	40.0 in.-lb.	90 lb.	1/20	25:1	0.62	7 1/2"	6Z915	6YHY3
	83.0 in.-lb.	230 lb.	1/10	25:1	1.08	8 3/4"	2H563	6YHY6
139	20.0 in.-lb.	90 lb.	1/20	13:1	0.62	7 1/2"	6Z916	6YHY3
	42.0 in.-lb.	220 lb.	1/10	13:1	1.08	8 3/4"	2H561	6YHY6

** Gear limited.*


No. 1LPL1



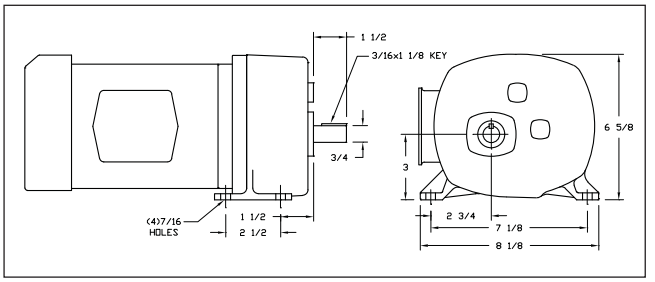
90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output
- UL and C-UL Recognized
- Accept direct motor-mount speed control No. 2PUX3, sold on page 85

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6.5	500.0 in.-lb.	250 lb.	1/15	267:1	0.84	8 1/2"	1LPL1
13	250.0 in.-lb.	250 lb.	1/15	135:1	0.84	8 1/2"	1LPK8
21	150.0 in.-lb.	250 lb.	1/15	81:1	0.84	8 1/2"	1LPK5
46	75.0 in.-lb.	250 lb.	1/15	38:1	0.84	8 1/2"	1LPK6
Replacement Motor Brush Set							
Motor Brush Set							6YHY6


No. 6Z406



90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel; 1st stage helical, subsequent stages spur
- Bearings: heavy-duty ball and thrust balls on case, ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts
- UL and C-UL Recognized

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV							
9	1087 in.-lb.	325 lb.	1/4	196:1	2.00	11 3/4"	6Z406
14	960 in.-lb.	325 lb.	1/4	131:1	2.60	11 3/4"	6Z407
20	727 in.-lb.	325 lb.	1/4	87:1	2.70	11 3/4"	6Z408
43	353 in.-lb.	325 lb.	1/4	41:1	2.70	11 3/4"	6Z409
63	238 in.-lb.	325 lb.	1/4	28:1	2.70	11 3/4"	6Z410
91	152 in.-lb.	325 lb.	1/4	19:1	2.70	11 3/4"	6Z411
148	101 in.-lb.	325 lb.	1/4	12:1	2.70	11 3/4"	6Z412
TEFC							
20	1112 in.-lb.	325 lb.	1/2	87:1	4.20	14"	6Z413
34	822 in.-lb.	325 lb.	1/2	50:1	5.00	14"	6Z414
40	664 in.-lb.	325 lb.	1/2	41:1	5.00	14"	6Z415
60	464 in.-lb.	325 lb.	1/2	28:1	5.00	14"	6Z416
90	305 in.-lb.	325 lb.	1/2	19:1	5.00	14"	6Z417
144	202 in.-lb.	325 lb.	1/2	12:1	5.00	14"	6Z418

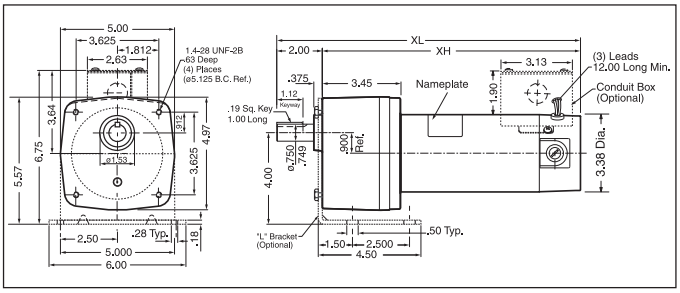
Description	For Use With	Item No.
Replacement Parts		
Motor Brush Set	6Z406, 6Z407, 6Z408, 6Z409, 6Z410, 6Z411, 6Z412, 6Z413B, 6Z414B, 6Z415B, 6Z416B, 6Z417B, 6Z418B	6YHY9
Motor Brush and Spring Set	6Z406A,6Z407A,6Z408A,6Z409A, 6Z410A,6Z411A 6Z412A,6Z413,6Z414,6Z415,6Z416,6Z417,6Z418, 6Z413A,6Z414A,6Z415A,6Z416A,6Z417A,6Z418A	11N180

Find the CAD files you need on Grainger.com®

90 and 180VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball on motor, needle on gearbox, thrust balls throughout; oversize output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up; for base mount, use optional mounting bracket No. 6XF03
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded, heavy-duty industrial
- UL Recognized and CSA Certified



Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Dim. XL	Dim. XH	Gearmotor Voltage 90VDC Full Load Amps	90VDC Item No.	180VDC Full Load Amps	180VDC Item No.
7	330.0 in.-lb.	565 lb.	1/8	336:1	11.31"	9.31"	0.70	6ML63	0.35	6ML64
14	341.0 in.-lb.	465 lb.	1/8	180:1	11.31"	9.31"	1.00	6ML65	0.50	6ML66
21	371.0 in.-lb.	413 lb.	1/4	124:1	13.31"	11.31"	1.10	6ML67	0.55	6ML68
27	305.0 in.-lb.	374 lb.	1/4	91:1	13.31"	11.31"	1.50	6ML69	0.75	6ML70
42	280.0 in.-lb.	327 lb.	1/4	58:1	13.31"	11.31"	2.30	6ML71	1.20	6ML72
50	250.0 in.-lb.	315 lb.	1/4	50:1	13.31"	11.31"	2.30	6ML73	1.20	6ML74
62	220.0 in.-lb.	303 lb.	1/4	43:1	13.31"	11.31"	2.30	6ML51	1.20	6ML52
83	155.0 in.-lb.	267 lb.	1/4	29:1	13.31"	11.31"	2.30	6ML53	1.20	6ML54
125	100.0 in.-lb.	256 lb.	1/4	23:1	13.31"	11.31"	2.00	6ML55	1.00	6ML56
165	70.0 in.-lb.	232 lb.	1/4	15:1	13.31"	11.31"	2.00	6ML57	1.00	6ML58
250	45.0 in.-lb.	201 lb.	1/4	10:1	13.31"	11.31"	2.00	6ML59	1.00	6ML60
500	25.0 in.-lb.	194 lb.	1/4	5:1	13.31"	11.31"	2.00	6ML61	1.00	6ML62


No. 6ML51

Description	Item No.
Accessories	
L-Shaped Mounting Bracket	6XF03
Conduit Box	6XF02

Motor-Mounted Speed Control

Dayton

- IP30 enclosure
- 4A max.
- Operating temp: 104°F (40°C)
- Accepts tach feedback

For 90VDC permanent magnet motors and gearmotors up to 1/6 HP. SCR controller direct-mounts to motor endbell. Features adjustable current/torque limit and maximum and minimum speed pots. Easy assembly.

Voltage Output	HP	AC Input Voltage	Speed Range	Speed Regulation	Item No.
0 to 90VDC	1/35 to 1/6	120VAC	15:1	10 to 30%	2PUX3

Units Compatible with No. 2PUX3			
1LPK5	1LRA8	2H594	4Z381
1LPK6	1LRA9	3XA77	4Z382
1LPK8	1LRB1	3XA78	4Z383
1LPL1	1LRB2	3XA79	4Z528
1LPV9	1LRB3	3XA80	6A193
1LPW1	1LRB4	3XA81	6A194
1LPW2	1Z854	3XA82	6Z910
1LPW3	1Z856	4Z128	6Z911
1LPW4	2H561	4Z129	6Z912
1LPW5	2H563	4Z130	6Z913
1LPX8	2H565	4Z131	6Z914
1LPX9	2H567	4Z132	6Z915
1LPY1	2H569	4Z133	6Z916
1LPY2	2H588	4Z134	—
1LPW3	2H590	4Z140	—
1LPY4	2H592	4Z141	—


No. 2PUX3

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Overall Length	Mfr. Model	Item No.
720 Series, For Shaft Dia. 3/4"								
8	442.0 in.-lb.	725 lb.	1/15	240:1	1.00	11 29/32"	021-720D0240	35TV25
10	332 in.-lb.	670 lb.	1/15	180:1	1.00	11 29/32"	021-720D0180	35TV24
12	277 in.-lb.	635 lb.	1/15	150:1	1.00	11 29/32"	021-720D0150	35TV23
15	415 in.-lb.	550 lb.	1/8	120:1	1.45	13 37/64"	021-720D0120	35TV22
18	346 in.-lb.	525 lb.	1/8	100:1	1.45	13 37/64"	021-720D0100	35TV21
22	277 in.-lb.	490 lb.	1/8	80:1	1.45	13 37/64"	021-720D0080	35TV20
30	208 in.-lb.	455 lb.	1/8	60:1	1.45	13 37/64"	021-720D0060	35TV19
35	173 in.-lb.	430 lb.	1/8	50:1	1.45	13 37/64"	021-720D0050	35TV18
44	139 in.-lb.	400 lb.	1/8	40:1	1.45	13 37/64"	021-720D0040	35TV17
59	104 in.-lb.	370 lb.	1/8	30:1	1.45	13 37/64"	021-720D0030	35TV16
89	70 in.-lb.	330 lb.	1/8	20:1	1.45	13 37/64"	021-720D0020	35TV15
118	52 in.-lb.	305 lb.	1/8	15:1	1.45	13 37/64"	021-720D0015	35TV14
177	35.0 in.-lb.	270 lb.	1/8	10:1	1.45	13 37/64"	021-720D0010	35TV13
725 Series, For Shaft Dia. 1"								
10	623.0 in.-lb.	870 lb.	1/8	180:1	1.60	15 21/64"	021-725D0180	35TV83
12	519.0 in.-lb.	820 lb.	1/8	150:1	1.45	15 21/64"	021-725D0150	35TV82
15	415 in.-lb.	780 lb.	1/8	120:1	1.45	15 21/64"	021-725D0120	35TV81
18	346.0 in.-lb.	740 lb.	1/8	100:1	1.45	15 21/64"	021-725D0100	35TV80
22	443.0 in.-lb.	620 lb.	1/5	80:1	2.24	14 1/64"	021-725D0080	35TV79
29	332.0 in.-lb.	580 lb.	1/5	60:1	2.24	14 1/64"	021-725D0060	35TV78
35	277.0 in.-lb.	550 lb.	1/5	50:1	2.24	14 1/64"	021-725D0050	35TV77
43	222.0 in.-lb.	510 lb.	1/5	40:1	2.24	14 1/64"	021-725D0040	35TV76
58	166.0 in.-lb.	475 lb.	1/5	30:1	2.24	14 1/64"	021-725D0030	35TV75
86	111.0 in.-lb.	430 lb.	1/5	20:1	2.24	14 1/64"	021-725D0020	35TV74
115	83.0 in.-lb.	400 lb.	1/5	15:1	2.24	14 1/64"	021-725D0015	35TV73
173	55.0 in.-lb.	355 lb.	1/5	10:1	2.24	14 1/64"	021-725D0010	35TV72
730 Series, For Shaft Dia. 1-1/4"								
8	1638 in.-lb.	1120 lb.	1/4	240:1	3.00	16 13/32"	021-730D0240	35TW37
11	1228 in.-lb.	1050 lb.	1/4	180:1	3.00	16 13/32"	021-730D0180	35TW36
13	1024 in.-lb.	1010 lb.	1/4	150:1	3.00	16 13/32"	021-730D0150	35TW35
16	819 in.-lb.	965 lb.	1/4	120:1	3.00	16 49/64"	021-730D0120	35TW34
20	682 in.-lb.	910 lb.	1/4	100:1	3.00	16 13/32"	021-730D0100	35TW33
25	546 in.-lb.	820 lb.	1/3	80:1	3.00	16 13/32"	021-730D0080	35TW32
33	409 in.-lb.	760 lb.	1/3	60:1	3.00	16 13/32"	021-730D0060	35TW31
39	341 in.-lb.	720 lb.	1/3	50:1	3.00	16 13/32"	021-730D0050	35TW30
49	273 in.-lb.	675 lb.	1/3	40:1	3.00	16 13/32"	021-730D0040	35TW29
65	205 in.-lb.	625 lb.	1/3	30:1	3.00	16 13/32"	021-730D0030	35TW28
98	136 in.-lb.	565 lb.	1/3	20:1	3.00	16 13/32"	021-730D0020	35TW27
131	102 in.-lb.	520 lb.	1/3	15:1	3.00	16 13/32"	021-730D0015	35TW26
196	68 in.-lb.	465 lb.	1/3	10:1	3.00	16 13/32"	021-730D0010	35TW25


No. 35TV25

BISON PowerSTAR

90VDC Hypoid Hollow-Shaft Right-Angle Gearmotors

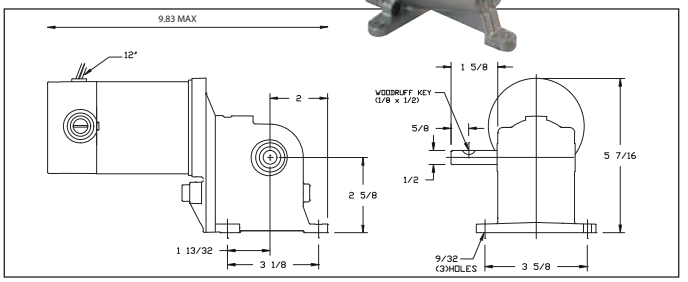
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: extreme pressure grease
- Gears: hardened steel hypoid
- Bearings: ball
- Mounting: all position
- Rotation: reversible
- Brushes: externally replaceable
- Max. ambient: 40°C
- UL and C-UL Recognized

PowerSTAR™ compact design delivers higher torque at improved efficiencies for packaging and light-to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low backlash operation. 12 and 24VDC gearmotors are available on Grainger.com®

Description	720 Series Mfr. Model	720 Series Item No.	725 Series Mfr. Model	725 Series Item No.	730 Series Mfr. Model	730 Series Item No.
Accessories						
Output Shaft Cover	P171-720-1000W	24MA51	P171-725-1020W	24MA52	P171-730-1000W	24MA53
Mounting Plate	P125-720-1000W	24MA54	P125-725-1000W	24MA55	P125-730-1000W	24MA56
Torque Arm	P125-720-1030W	24MA57	P125-725-1030W	24MA58	P125-730-1030W	24MA59
Output Shaft Insert	P108-720-5000W	24MA60	P108-725-5000W	24MA61	P108-730-5000W	24MA62



No. 1LRA8



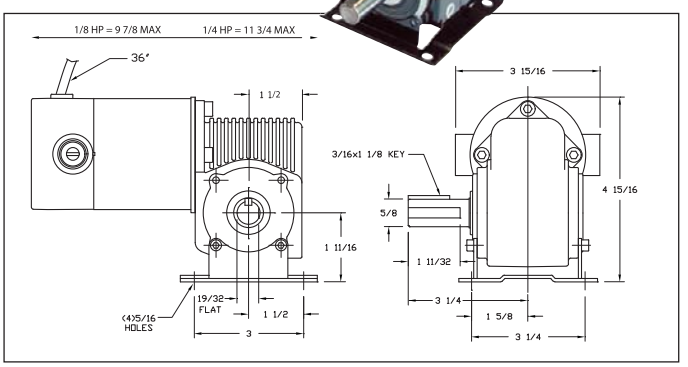
90VDC Permanent-Magnet Right-Angle Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease packed
- Gears: input gear steel; worm hardened steel; output gear cast iron
- Bearings: bronze sleeve on case, ball on motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on output shaft
- Gear limited
- UL and C-UL Recognized
- Units are compatible with speed control No. 2PUX3, sold on page 85

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3	250.0 in.-lb.	100 lb.	1/20	525:1	0.59	**1LRA8**
6	177.0 in.-lb.	100 lb.	1/20	275:1	0.59	**1LRA9**
10	228.0 in.-lb.	100 lb.	1/20	161:1	0.59	**1LRB1**
24	102.0 in.-lb.	100 lb.	1/20	70:1	0.59	**1LRB2**
45	56.0 in.-lb.	100 lb.	1/20	37:1	0.59	**1LRB4**
90	34.0 in.-lb.	100 lb.	1/10	37:1	1.14	**1LRB3**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**



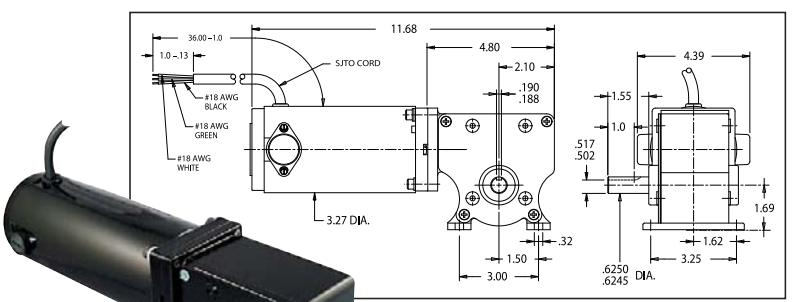
No. 3XA77



90VDC Permanent-Magnet Hollow-Shaft Right-Angle Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: worm-hardened steel, output gear bronze alloy
- Bearings: ball on output and motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Reversible shaft output
- Seals: lip-type on input and output shafts
- UL and C-UL Recognized
- 1/8-HP units accept direct motor-mount speed control No. 2PUX3, sold on page 85
- Accept pulse generator Nos. 6Z392 or 5JJ65, sold on page 159

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
30	94.0 in.-lb.	175 lb.	1/8	60:1	1.28	**3XA82**
40	82.0 in.-lb.	175 lb.	1/8	45:1	1.28	**3XA81**
60	60.0 in.-lb.	175 lb.	1/8	30:1	1.28	**3XA80**
	120.0 in.-lb.	175 lb.	1/4	30:1	2.33	**3XA86**
90	49.0 in.-lb.	175 lb.	1/8	20:1	1.28	**3XA79**
	100.0 in.-lb.	175 lb.	1/4	20:1	2.33	**3XA85**
180	27.0 in.-lb.	175 lb.	1/8	10:1	1.28	**3XA78**
	55.0 in.-lb.	175 lb.	1/4	10:1	2.33	**3XA84**
360	14.0 in.-lb.	175 lb.	1/8	5:1	1.28	**3XA77**
	30.0 in.-lb.	175 lb.	1/4	5:1	2.33	**3XA83**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**



No. 5LAE8

12, 24, and 90VDC Right-Angle Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: heavy gear oil
- Gears: metal
- Bearings: needle roller
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts
- UL and C-UL Recognized

Description	For Use With	Item No.
Replacement Motor Brush Sets		
12 and 24VDC Motor Brush Set	5LAF4 thru 5LAF9, 5LAG0 thru 5LAG5	**33K907**
90VDC Motor Brush Set	5LAE8, 5LAE9, 5LAF0 thru 5LAF3	**33K906**

						GEARMOTOR VOLTAGE					
						12VDC			24VDC			90VDC		
Max. Torque	Overhung Load	Input HP	Gear Ratio	Length Less Shaft	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.
280.0 in.-lb.	175 lb.	1/8	82:1	11 3/4"	20	10.4	**5LAF4**	20	5.2	**5LAG0**	22	1.41	**5LAE8**
266.0 in.-lb.	175 lb.	1/8	60:1	11 3/4"	—	—	— —	26	6.3	**5LAG1**	30	1.72	**5LAE9**
196.0 in.-lb.	175 lb.	1/8	44:1	11 3/4"	—	—	— —	36	6.3	**5LAG2**	40	1.72	**5LAF0**
165.0 in.-lb.	175 lb.	1/8	28:1	11 3/4"	54	16	**5LAF7**	54	8	**5LAG3**	—	—	— —
123.0 in.-lb.	175 lb.	1/8	28:1	11 3/4"	—	—	— —	—	—	— —	64	1.72	**5LAF1**
137.0 in.-lb.	175 lb.	1/8	23:1	11 3/4"	—	—	— —	65	8	**5LAG4**	—	—	— —
103.0 in.-lb.	175 lb.	1/8	23:1	11 3/4"	—	—	— —	—	—	— —	77	1.73	**5LAF2**
63.0 in.-lb.	175 lb.	1/8	10:1	11 3/4"	150	16	**5LAF9**	150	8	**5LAG5**	—	—	— —
47.0 in.-lb.	175 lb.	1/8	10:1	11 3/4"	—	—	— —	—	—	— —	177	2.01	**5LAF3**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
29	56C	1.33"	60:1	0.25	309 in.-lb.	4Z284	4RN71	4Z001
	56C	1.54"	60:1	0.25	280 in.-lb.	4RN80	4RN88	4RN96
	56C	1.75"	60:1	0.3	415 in.-lb.	4Z292	3GD39	4RP05
	56C	2.06"	60:1	0.5	636 in.-lb.	4Z300	4RP13	4Z008
	56C	2.37"	60:1	0.5	663 in.-lb.	4RP21	4RP28	4RP35
	56C	2.62"	60:1	0.75	1021 in.-lb.	4Z730	3GD47	4RP42
	56C	3.00"	60:1	0.75	1034 in.-lb.	4RP50	4RP58	4RP66
	56C	3.25"	60:1	1	1371 in.-lb.	3GD55	4RP74	4Z015
35	56C	1.33"	50:1	0.25	225 in.-lb.	4Z285	4RN72	4RN79
	56C	1.54"	50:1	0.25	267 in.-lb.	4RN81	4RN89	4RN97
	56C	1.75"	50:1	0.5	449 in.-lb.	4Z293	3GD40	4RP06
	56C	2.06"	50:1	0.5	581 in.-lb.	4Z301	4RP14	—
	56C	2.37"	50:1	0.5	582 in.-lb.	4RP22	4RP29	4RP36
	56C	2.62"	50:1	0.75	895 in.-lb.	4Z731	3GD48	4RP43
	56C	3.00"	50:1	1	1233 in.-lb.	4RP51	4RP59	4RP67
	56C	3.25"	50:1	1.5	1857 in.-lb.	3GD56	4RP75	6Z130
44	56C	1.33"	40:1	0.25	220 in.-lb.	4Z286	4RN73	4Z002
	56C	1.54"	40:1	0.3	310 in.-lb.	4RN82	4RN90	4RN98
	56C	1.75"	40:1	0.5	477 in.-lb.	4Z294	3GD41	4RP07
	56C	2.06"	40:1	0.5	492 in.-lb.	4Z302	4RP15	4Z009
	56C	2.37"	40:1	0.75	758 in.-lb.	4RP23	4RP30	4RP37
	56C	2.62"	40:1	1	1028 in.-lb.	4Z732	3GD49	4RP44
	56C	3.00"	40:1	1	1011 in.-lb.	4RP52	4RP60	4RP68
	56C	3.25"	40:1	1.5	1563 in.-lb.	3GD57	4RP76	4Z016
58	56C	1.33"	30:1	0.3	233 in.-lb.	4Z287	4RN74	4Z003
	56C	1.54"	30:1	0.3	248 in.-lb.	4RN83	4RN91	4RN99
	56C	1.75"	30:1	0.5	401 in.-lb.	4Z295	3GD42	4RP08
	56C	2.06"	30:1	0.75	610 in.-lb.	4Z303	4RP16	4Z010
	56C	2.37"	30:1	1	809 in.-lb.	4RP24	4RP31	4RP38
	56C	2.62"	30:1	1.5	983 in.-lb.	4Z733	3GD50	4RP45
	56C	3.00"	30:1	1.5	1245 in.-lb.	4RP53	4RP61	4RP69
	56C	3.25"	30:1	2	1689 in.-lb.	3GD58	4RP77	4Z017
88	56C	1.33"	20:1	0.5	212 in.-lb.	4Z288	4RN75	4Z004
	56C	1.54"	20:1	0.5	280 in.-lb.	4RN84	4RN92	4RP01
	56C	1.75"	20:1	0.75	436 in.-lb.	4Z296	3GD43	4RP09
	56C	2.06"	20:1	1	586 in.-lb.	4Z304	4RP17	4Z011
	56C	2.37"	20:1	1.5	892 in.-lb.	4RP25	4RP32	4RP39
	56C	2.62"	20:1	1.5	891 in.-lb.	4Z734	3GD51	4RP46
	140TC/180C	3.00"	20:1	2	1204 in.-lb.	4RP54	4RP62	4RP70
	180TC/210C	3.25"	20:1	3	1816 in.-lb.	3GD59	4RP78	4Z018
117	56C	1.33"	15:1	0.5	203 in.-lb.	4Z289	4RN76	4Z005
	56C	1.54"	15:1	0.5	218 in.-lb.	4RN85	4RN93	4RP02
	56C	1.75"	15:1	1	430 in.-lb.	4Z297	3GD44	4RP10
	56C	2.06"	15:1	1.5	614 in.-lb.	4Z305	4RP18	4Z012
	56C	2.37"	15:1	1.5	686 in.-lb.	4RP26	4RP33	4RP40
	56C	2.62"	15:1	2	925 in.-lb.	4Z735	3GD52	4RP47
	140TC/180C	3.00"	15:1	3	1405 in.-lb.	4RP55	4RP63	4RP71
	180TC/210C	3.25"	15:1	3	1407 in.-lb.	3GD60	4RP79	4Z019
175	56C	1.33"	10:1	0.75	182 in.-lb.	4Z290	4RN77	4Z006
	56C	1.54"	10:1	0.75	233 in.-lb.	4RN86	4RN94	4RP03
	56C	1.75"	10:1	1.5	407 in.-lb.	4Z298	3GD45	4RP11
	56C	2.06"	10:1	2	554 in.-lb.	4Z306	4RP19	4Z013
	56C	2.37"	10:1	2	651 in.-lb.	4RP27	4RP34	4RP41
	56C	2.62"	10:1	3	972 in.-lb.	4Z736	3GD53	4RP48
	180TC/210C	3.00"	10:1	3	970 in.-lb.	4RP56	4RP64	4RP72
	180TC/210C	3.25"	10:1	5	1629 in.-lb.	3GD61	4RP80	4Z020

** @ 1750 rpm.*

Find the CAD files you need on Grainger.com®



Left Shaft Assembly No. 4Z292

Dayton

C-Face Right-Angle Speed Reducers and Bases

- 29 to 350 rpm, continuous duty
- All-position mounting with optional bases, except input motor shaft up
- Shipped with Klübersynth UH1 6-460 gear oil No. 34K212
- Double-lipped and spring-loaded shaft seals; large oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) reducers. Thread-rolled and hardened alloy steel worm for higher strength and lower power loss; forged bronze and hardened worm gear. Ball bearings on input shaft, tapered roller bearings on output shaft. Cast-iron housing. For low-speed/high-torque applications when coupled to a NEMA 56C-Face, 1750-rpm motor (not included).

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
350	56C	1.33"	5:1	1	163 in.-lb.	4Z291	4RN78	4Z007
	56C	1.54"	5:1	1	163 in.-lb.	4RN87	4RN95	4RP04
	56C	1.75"	5:1	2	276 in.-lb.	4Z299	3GD46	4RP12
	56C	2.06"	5:1	2	329 in.-lb.	4Z307	4RP20	4Z014
	56C	2.62"	5:1	3	496 in.-lb.	4Z737	3GD54	4RP49
	180TC/210C	3.00"	5:1	5	834 in.-lb.	4RP57	4RP65	4RP73
	210TC/250UC	3.25"	5:1	7.5	1260 in.-lb.	3GD62	4RP81	4Z021

Worm Center Distance	Bolt Hole Dia.	HORIZONTAL Item No.	VERTICAL Item No.
Mounting Bases			
1.33"	0.34"	6X499	6X502
1.54"	0.41"	4RN65	4RN68
1.75"	0.41"	6X093	6X094
2.06"	0.47"	6X500	6X503
2.37"	0.47"	4RN66	4RN69
2.62"	0.53"	1A507	1A508
3.00"	0.53"	4RN67	4RN70
3.25"	0.53"	6X501	6X504



GROVE GEAR
ELECTRA-GEAR

Get Ratio Multipliers on Grainger.com®

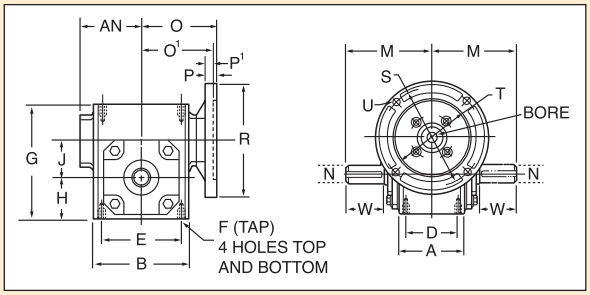
- Use as a speed reducer or increaser
- Die-cast aluminum, cast iron, and stainless steel housings available

Dual-purpose ratio multipliers from Grove Gear can function as stand-alone inline reducers or work with C-face reducers to multiply the overall reduction ratio to meet your application's torque requirements. A full line of these compact, versatile multipliers can be found on Grainger.com; search for "ratio multipliers."

Dayton

Dayton C-Face Right-Angle Speed Reducer Dimensional Drawings

Right- and left-hand shafts are determined while facing reducer C-Face input.



Motor Frame No.	Dimensions P	P1	R	S	T	U	Input Shaft Bore	Keyway
56C	0.44"	N"	6.62"	5.88"	4.5"	0.41"	0.625"	0.188 x 1.38"
140TC	0.44"	N"	6.62"	5.88"	4.5"	0.41"	0.875"	0.188 x 1.38"
180TC	N"	0.56"	9.26"	7.25"	8.5"	0.53"	1.125"	0.250 x 1.13"
210TC	N"	0.56"	9.00"	7.25"	8.5"	0.53"	1.375"	0.313 x 1.38"

Worm Center Distance	Overhung Load	Dimensions A	B	D	E	F	G	H	J	AN	M	Output Shaft N	W	Keyway	56C/ 140TC O	182TC/184TC 213TC/215TC O1
1.33"	275"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	4.38"	0.625"	2.00"	0.188 x 1.25"	3.94	—
1.54"	388"	3.69"	5.13"	2.75"	4.19"	5/16-18"	5.38"	1.91"	1.54"	2.56"	4.31"	0.750"	1.78"	0.188 x 1.14"	4.50	—
1.75"	700"	3.69"	5.50"	2.75"	4.19"	5/16-18"	5.75"	2.06"	1.75"	2.75"	4.31"	0.875"	1.78"	0.188 x 1.14"	4.69	—
2.06"	875"	3.81"	6.00"	3.00"	4.75"	5/16-18"	6.38"	2.28"	2.06"	3.00"	4.69"	1.000"	2.09"	0.250 x 1.32"	5.06	—
2.37"	845"	4.06"	6.38"	2.88"	5.00"	3/8-16"	6.94"	2.50"	2.37"	3.19"	5.08"	1.125"	2.37"	0.250 x 1.64"	5.25	—
2.62"	1300"	4.44"	7.38"	3.38"	6.38"	3/8-16"	8.00"	2.94"	2.63"	3.69"	5.63"	1.250"	2.63"	0.250 x 1.93"	5.75	—
3.00"	967"	5.25"	8.12"	4.00"	7.00"	7/16-14"	8.88"	3.25"	3.00"	4.06"	6.75"	1.250"	3.25"	0.250 x 2.31"	6.20	—
3.25"	1500"	5.88"	9.00"	4.00"	7.50"	7/16-14"	9.38"	3.50"	3.25"	5.03"	7.06"	1.500"	3.25"	0.375 x 2.50"	6.56	7.00



No. 1L295

Boston Gear

C-Face Right-Angle Speed Reducers and Bases

- Left output shaft
- All-position mounting (mounting bases sold separately)
- Shipped without oil, use No. 34K212

Heavy-duty worm gear speed reducers with long-life seals have value-engineered features for flexible installation and simplified maintenance. Integral input worm and shaft of case-hardened alloy steel. Oversize ball and roller bearings for maximum performance. Fine-grain cast-iron housing.

Note: Models with stainless steel housing are available on Grainger.com®.

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
29	56C	1.75"	60:1	0.3	440 in.-lb.	F718-60-B5-G	**1L295**
	56C	2.06"	60:1	0.5	670 in.-lb.	F721-60-B5-G	**1L324**
	56C	2.38"	60:1	0.5	670 in.-lb.	F724-60-B5-G	**1L329**
	56C	2.62"	60:1	0.75	1004 in.-lb.	F726-60-B5-G	**1L370**
	140TC/180C	3.75"	60:1	2	2678 in.-lb.	F738-60E-B7-G	**1L869**
	180TC/210C	5.15"	60:1	5	7392 in.-lb.	RF752-60E-B9-G	**1L878**
35	42CZ	1.00"	50:1	0.16	120 in.-lb.	F710-50-B4-G	**1L237**
	56C	1.00"	50:1	0.16	120 in.-lb.	F710-50-B5-G	**1L251**
	56C	1.33"	50:1	0.16	205 in.-lb.	F713-50-B5-G	**1L269**
	56C	1.54"	50:1	0.25	315 in.-lb.	F715-50-B5-G	**1L282**
	56C	1.75"	50:1	0.3	420 in.-lb.	F718-50-B5-G	**1L296**
	56C	2.06"	50:1	0.5	630 in.-lb.	F721-50-B5-G	**1L325**
	56C	2.62"	50:1	1	1260 in.-lb.	F726-50-B5-G	**1L363**
	56C	3.25"	50:1	2	2520 in.-lb.	F732-50E-B5-G	**1L858**
44	42CZ	1.00"	40:1	0.16	128 in.-lb.	F710-40-B4-G	**1L238**
	56C	1.00"	40:1	0.16	128 in.-lb.	F710-40-B5-G	**1L252**
	56C	1.33"	40:1	0.16	178 in.-lb.	F713-40-B5-G	**1L270**
	56C	1.54"	40:1	0.3	355 in.-lb.	F715-40-B5-G	**1L283**
	56C	1.75"	40:1	0.3	355 in.-lb.	F718-40-B5-G	**1L297**
	56C	2.06"	40:1	0.5	533 in.-lb.	F721-40-B5-G	**1L326**
	56C	2.38"	40:1	1	1206 in.-lb.	F724-40-B5-G	**1L331**
	56C	2.62"	40:1	1	1066 in.-lb.	F726-40-B5-G	**1L364**
	140TC/180C	3.25"	40:1	2	2131 in.-lb.	F732-40E-B7-G	**1L857**
58	42CZ	1.00"	30:1	0.16	139 in.-lb.	F710-30-B4-G	**1L239**
	56C	1.33"	30:1	0.25	208 in.-lb.	F713-30-B5-G	**1L271**
	56C	1.54"	30:1	0.3	277 in.-lb.	F715-30-B5-G	**1L284**
	56C	1.75"	30:1	0.5	416 in.-lb.	F718-30-B5-G	**1L298**
	56C	2.06"	30:1	0.75	624 in.-lb.	F721-30-B5-G	**1L327**
	56C	2.38"	30:1	1	832 in.-lb.	F724-30-B5-G	**1L332**
	56C	2.62"	30:1	1.5	1247 in.-lb.	F726-30-B5-G	**1L366**
	140TC/180C	2.62"	30:1	1.5	1247 in.-lb.	F726-30-B7-G	**1L365**
70	56C	1.33"	25:1	0.3	234 in.-lb.	F713-25-B5-G	**1L272**
	56C	1.54"	25:1	0.5	350 in.-lb.	F715-25-B5-G	**1L285**
	56C	1.75"	25:1	0.5	350 in.-lb.	F718-25-B5-G	**1L299**
	56C	2.06"	25:1	1	702 in.-lb.	F721-25-B5-G	**1L328**
	56C	2.38"	25:1	1.5	1056 in.-lb.	F724-25-B5-G	**1L333**
	140TC/180C	2.38"	25:1	1.5	1056 in.-lb.	F724-25-B7-G	**1L349**
88	42CZ	1.00"	20:1	0.25	130 in.-lb.	F710-20-B4-G	**1L240**
	56C	1.00"	20:1	0.25	130 in.-lb.	F710-20-B5-G	**1L254**
	56C	1.33"	20:1	0.3	197 in.-lb.	F713-20-B5-G	**1L273**
	56C	1.54"	20:1	0.5	295 in.-lb.	F715-20-B5-G	**1L286**
	56C	1.75"	20:1	0.75	443 in.-lb.	F718-20-B5-G	**1L300**
	56C	2.06"	20:1	1	590 in.-lb.	F721-20-B5-G	**1L318**

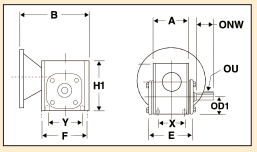
** @ 1750 rpm.*

Reducer Model	Worm Center Distance	Base Mounting Hole Pattern Width	Base Mounting Hole Pattern Length	Base Width	Base Length	Item No.
Cast Iron Mounting Bases						
710	1.00"	2.88"	3.75"	3.69"	4.63	**4NY17**
713	1.33"	3.31"	4.38"	4.19"	5.38	**4YA78**
715	1.54"	4.31"	5.25"	5.44"	6.44	**4YA79**
718	1.75"	4.50"	5.75"	5.69"	7.00	**4YA80**
721	2.06"	4.69"	6.38"	5.94"	7.75	**4YA81**
724	2.38"	4.88"	7.06"	6.19"	8.50	**4YA82**
726	2.62"	5.25"	8.00"	6.66"	9.63	**4YA83**

Boston Gear

Boston Gear C-Face Right-Angle Speed Reducer Dimensional Drawings

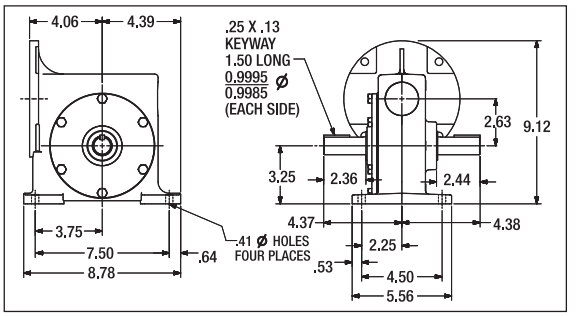
Right- and left-hand shafts are determined while facing reducer C-Face input.



Reducer Model	Worm Center Distance	Overhung Load	Speed Reducer Dimensions A	B 42CZ	B 56C 140TC	B 180TC 210TC	B 180TC 210TC 250TC	E	F	H1	X	Y	Tap Size	Depth	Output Shaft OD1	OU	ONW	Keyway
710	1.00"	150 lb.	2.50"	4.78"	5.56"	—	—	3.34"	3.25"	3.63"	1.69"	2.63"	¼-20"	0.44"	1.31"	0.500"	1.19"	1/8 x 5/8"
713	1.33"	200 lb.	2.88"	—	6.06"	—	—	4.30"	4.25"	4.64"	2.00"	3.25"	5/16-18"	0.50"	1.72"	0.625"	2.00"	3/16 x 1"
715	1.54"	300 lb.	3.69"	—	7.06"	—	—	5.06"	5.13"	5.38"	2.75"	4.19"	5/16-18"	0.50"	1.91"	0.750"	1.78"	3/16 x 1"
718	1.75"	600 lb.	3.69"	—	7.44"	—	—	5.03"	5.50"	5.75"	2.75"	4.19"	5/16-18"	0.50"	2.06"	0.875"	1.78"	3/16 x 1"
721	2.06"	700 lb.	3.81"	—	8.06"	—	—	5.19"	6.00"	6.38"	2.88"	5.00"	3/8-16"	0.56"	2.28"	1.000"	2.09"	¼ x 1¼"
724	2.38"	900 lb.	4.06"	—	8.44"	8.88"	—	5.43"	6.38"	6.94"	2.88"	5.00"	3/8-16"	0.56"	2.50"	1.125"	2.38"	¼ x 1¼"
726	2.62"	1000 lb.	4.44"	—	9.44"	9.88"	—	5.90"	7.38"	8.00"	3.38"	6.38"	3/8-16"	0.56"	2.94"	1.125"	2.63"	¼ x 1 15/16"
732	3.25"	1300 lb.	5.88"	—	11.06"	11.50"	—	7.56"	9.00"	9.38"	4.00"	7.50"	1/16-14"	0.66"	3.50"	1.375"	3.25"	5/16 x 2 1/16"
738	3.75"	2000 lb.	6.38"	—	12.06"	12.50"	—	8.38"	10.00"	10.44"	4.75"	8.50"	½-13"	0.81"	3.88"	1.625"	3.50"	3/8 x 2¼"
752	5.16"	2200 lb.	7.38"	—	—	—	22.56"	9.65"	13.13"	13.75"	5.81"	11.00"	5/8-11"	1.00"	5.31"	2.000"	4.16"	½ x 2 15/16"



No. 2Z154



Dayton

C-Face Right-Angle Speed Reducers

- 29 to 173 output rpm, continuous duty
- Double-output shaft
- Horizontal floor or ceiling mount
- 2.63" worm center distance
- Shipped with Klübersynth UH1 6-460 gear oil No. 34K212
- Ball bearings

For use with ¼ to ¾ HP, NEMA 56C, 1725 rpm motors. Case-hardened, ball bearing-supported worm. High-strength bronze, tapered roller bearing-supported output gear. Cast-iron housing. For 1-phase C-face motors, see page 13; for 3-phase C-face motors, see pages 19 and 20.

Nominal Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
29	1117 lb.	60:1	0.5	537 in.-lb.	**6Z128**
35	986 lb.	50:1	0.5	498 in.-lb.	**2Z151**
43	870 lb.	40:1	0.5	431 in.-lb.	**6Z129**
69	679 lb.	25:1	0.75	492 in.-lb.	**2Z152**
86	629 lb.	20:1	0.75	422 in.-lb.	**2Z153**
138	487 lb.	12.5:1	0.75	292 in.-lb.	**2Z154**
173	432 lb.	10:1	0.75	226 in.-lb.	**2Z936**

** @ 1725 rpm.*

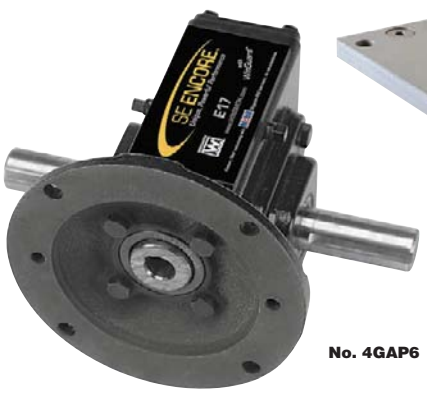
CAD DRAWINGS Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nominal Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
17	56C	2.38"	1025 lb.	100:1	0.25	533 in.-lb.	E24MWNS	4GAN8
	56C	2.63"	1025 lb.	100:1	0.3	744 in.-lb.	E26MWNS	4GAN9
	56C	3.50"	2130 lb.	100:1	0.5	1243 in.-lb.	E35MWNS	4GAP1
22	56C	2.38"	1025 lb.	80:1	0.3	638 in.-lb.	E24MWNS	4GAP2
	56C	2.63"	1025 lb.	80:1	0.5	979 in.-lb.	E26MWNS	4GAP3
	56C	3.50"	2130 lb.	80:1	1	2146 in.-lb.	E35MWNS	4GAP4
29	56C	1.33"	290 lb.	60:1	0.16	181 in.-lb.	E13MWNS	4GAP5
	56C	1.75"	650 lb.	60:1	0.25	386 in.-lb.	E17MWNS	4GAP6
	56C	2.00"	650 lb.	60:1	0.3	528 in.-lb.	E20MWNS	4GAP7
	56C	2.38"	1025 lb.	60:1	0.5	810 in.-lb.	E24MWNS	4GAP8
	56C/140TC	2.63"	1025 lb.	60:1	0.75	1268 in.-lb.	E26MWNS	4GAP9
	56C/140TC	3.00"	1350 lb.	60:1	1	1766 in.-lb.	E30MWNS	4GAR1
	140TC	3.50"	2130 lb.	60:1	2	3573 in.-lb.	E35MWNS	4GAR2
35	56C	1.33"	290 lb.	50:1	0.16	209 in.-lb.	E13MWNS	4GAR3
	56C	1.75"	650 lb.	50:1	0.3	449 in.-lb.	E17MWNS	4GAR4
	56C	2.00"	650 lb.	50:1	0.5	706 in.-lb.	E20MWNS	4GAR5
	56C	2.38"	1025 lb.	50:1	0.75	1083 in.-lb.	E24MWNS	4GAR6
	56C/140TC	2.63"	1025 lb.	50:1	1	1481 in.-lb.	E26MWNS	4GAR7
	56C/140TC	3.00"	1350 lb.	50:1	1.5	2305 in.-lb.	E30MWNS	4GAR8
	140TC	3.50"	2130 lb.	50:1	2	3076 in.-lb.	E35MWNS	4GAR9
43	56C	1.33"	290 lb.	40:1	0.25	256 in.-lb.	E13MWNS	4GAT1
	56C	1.75"	650 lb.	40:1	0.5	580 in.-lb.	E17MWNS	4GAT2
	56C	2.00"	650 lb.	40:1	0.5	585 in.-lb.	E20MWNS	4GAT3
	56C	2.38"	1025 lb.	40:1	1	1203 in.-lb.	E24MWNS	4GAT4
	56C/140TC	2.63"	1025 lb.	40:1	1	1223 in.-lb.	E26MWNS	4GAT5
	56C/140TC	3.00"	1350 lb.	40:1	2	2516 in.-lb.	E30MWNS	4GAT6
	56C/140TC	3.50"	2130 lb.	40:1	3	3787 in.-lb.	E35MWNS	4GAT7
58	56C	1.33"	290 lb.	30:1	0.3	276 in.-lb.	E13MWNS	4GAT8
	56C	1.75"	650 lb.	30:1	0.5	452 in.-lb.	E17MWNS	4GAT9
	56C	2.00"	650 lb.	30:1	0.75	687 in.-lb.	E20MWNS	4GAU1
	56C	2.38"	1025 lb.	30:1	1	938 in.-lb.	E24MWNS	4GAU2
	56C/140TC	2.63"	1025 lb.	30:1	1.5	1427 in.-lb.	E26MWNS	4GAU3
	56C/140TC	3.00"	1350 lb.	30:1	2	1937 in.-lb.	E30MWNS	4GAU4
	140TC	3.50"	2130 lb.	30:1	3	2906 in.-lb.	E35MWNS	4GAU6
	180TC	3.00"	1350 lb.	30:1	2	1937 in.-lb.	E30MWNS	4GAU5
	180TC	3.50"	2130 lb.	30:1	3	2906 in.-lb.	E35MWNS	4GAU7
86	56C	1.33"	290 lb.	20:1	0.3	202 in.-lb.	E13MWNS	4GAU8
	56C	1.75"	650 lb.	20:1	0.75	482 in.-lb.	E17MWNS	4GAU9
	56C/140TC	2.00"	650 lb.	20:1	1	650 in.-lb.	E20MWNS	4GAV1
	56C/140TC	2.38"	1025 lb.	20:1	2	1311 in.-lb.	E24MWNS	4GAV2
	56C/140TC	2.63"	1025 lb.	20:1	2	1322 in.-lb.	E26MWNS	4GAV3
	56C/140TC	3.00"	1350 lb.	20:1	3	2009 in.-lb.	E30MWNS	4GAV4
	180TC	3.00"	1350 lb.	20:1	3	2009 in.-lb.	E30MWNS	4GAV5
	180TC	3.50"	2130 lb.	20:1	5	3334 in.-lb.	E35MWNS	4GAV6
115	56C	1.33"	290 lb.	15:1	0.5	238 in.-lb.	E13MWNS	4GAV7
	56C/140TC	1.75"	650 lb.	15:1	1	494 in.-lb.	E17MWNS	4GAV8
	56C/140TC	2.00"	650 lb.	15:1	1.5	749 in.-lb.	E20MWNS	4GAV9
	56C/140TC	2.38"	1025 lb.	15:1	2	1003 in.-lb.	E24MWNS	4GAW1
	56C/140TC	2.63"	1025 lb.	15:1	3	1512 in.-lb.	E26MWNS	4GAW2
	56C/140TC	3.00"	1350 lb.	15:1	5	2542 in.-lb.	E30MWNS	4GAW3
	180TC	3.00"	1350 lb.	15:1	5	2542 in.-lb.	E30MWNS	4GAW4
	180TC	3.50"	2130 lb.	15:1	5	2542 in.-lb.	E35MWNS	4GAW5
172	56C	1.33"	290 lb.	10:1	0.75	248 in.-lb.	E13MWNS	4GAW6
	56C/140TC	1.75"	650 lb.	10:1	1.5	507 in.-lb.	E17MWNS	4GAW7
	56C/140TC	2.00"	650 lb.	10:1	2	687 in.-lb.	E20MWNS	4GAW8
	56C/140TC	2.38"	895 lb.	10:1	3	1021 in.-lb.	E24MWNS	4GAW9
	56C/140TC	2.63"	895 lb.	10:1	3	1027 in.-lb.	E26MWNS	4GAX1
	180TC	3.00"	1298 lb.	10:1	5	1722 in.-lb.	E30MWNS	4GAX2
345	56C	1.33"	290 lb.	5:1	1	171 in.-lb.	E13MWNS	4GAX3
	56C/140TC	1.75"	572 lb.	5:1	2	344 in.-lb.	E17MWNS	4GAX4
	56C/140TC	2.00"	572 lb.	5:1	3	518 in.-lb.	E20MWNS	4GAX5
	56C/140TC	2.38"	748 lb.	5:1	5	863 in.-lb.	E24MWNS	4GAX6
	180TC	2.63"	748 lb.	5:1	7.5	1299 in.-lb.	E26MWNS	4GAX7

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*



No. 4GAP6



No. 1L382

C-Face Right-Angle Speed Reducers and Bases

WINSMITH HIGH QUALITY SPEED REDUCERS

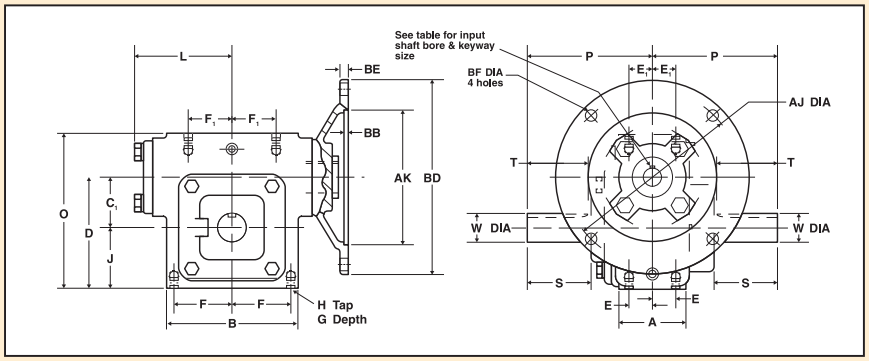
- Interchangeable with Winsmith MDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle® 460 synthetic lubricant

Black coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern Length	Base Mounting Hole Pattern Width	Base Thickness	Mfr. Model	Item No.
Top Bases						
1.33"	0.406"	4.000"	2.500"	0.250"	E13WB	1L382
1.75"	0.406"	4.000"	3.500"	0.500"	E17WB	1L402
2.00"	0.406"	4.000"	3.500"	0.250"	E20WB	1L383
2.38"	0.563"	5.750"	4.500"	0.750"	E24WB	1L399
2.63"	0.563"	5.750"	4.500"	0.375"	E26WB	1L397
3.50"	0.563"	5.250"	8.250"	0.500"	E35WB	1L396
Top and Bottom Base						
3.00"	0.563"	6.500"	5.250"	0.500"	E30WT	1L381
Bottom Bases						
1.33"	0.406"	4.000"	2.500"	0.375"	E13WT	1L379
1.75"	0.406"	3.810"	3.500"	0.500"	E17WT	1L401
2.00"	0.406"	3.810"	3.500"	0.500"	E20WT	1L380
2.38"	0.563"	5.750"	4.500"	0.625"	E24WT	1L400
2.63"	0.563"	5.750"	4.500"	0.375"	E26WT	1L398
3.50"	0.563"	5.250"	8.250"	0.500"	E35WT	1L395

Winsmith C-Face Right-Angle Speed Reducer Dimensional Drawings

WINSMITH HIGH QUALITY SPEED REDUCERS



Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3⁄16 x 3⁄32"	3⁄16 x 3⁄32"	1⁄4 x 1⁄8"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*

Reducer Model	Worm Center Dist.	Dimensions A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	O	P	Output Shaft W†	S	T	Keyway
E13MWNS	1.33"	2.00"	3.88"	1.333"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5⁄16-18"	1.75"	2.83"	4.33"	4.00"	0.750"	2.06"	1.88"	0.19 x 0.09"
E17MWNS	1.75"	2.38"	4.63"	1.750"	3.88"	0.88"	0.88"	1.94"	1.69"	0.56"	3⁄8-16"	2.13"	3.44"	5.38"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E20MWNS	2.00"	2.38"	5.25"	2.000"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3⁄8-16"	2.13"	3.44"	5.63"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E24MWNS	2.37"	3.13"	5.38"	2.375"	5.25"	1.13"	1.13"	2.19"	2.19"	0.63"	1⁄2-13"	2.88"	4.50"	7.25"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E26MWNS	2.63"	3.13"	5.88"	2.625"	5.75"	1.13"	1.13"	2.44"	2.44"	0.63"	1⁄2-13"	3.13"	4.50"	7.88"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30MWNS	3.00"	3.50"	6.62"	3.000"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	1⁄2-13"	3.50"	4.63"	9.00"	5.88"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35MWNS	3.50"	3.75	7.69"	3.500"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5⁄8-11"	4.00"	5.46"	10.13"	7.00"	1.750"	3.75"	3.63"	0.38 x 0.19"

† Shaft dia. tolerances +0.000, -0.001.



No. 3XJC5

C-Face Right-Angle Hollow-Shaft Speed Reducers

- Interchangeable with Winsmith MDSS models
- Symmetric hollow output shaft for flexibility in mounting
- Filled with Mobil Glygoyle® 460 synthetic lubricant

White coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Open/close vent. Predrilled and tapped holes on top and bottom for bracket attachment. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

Note: Additional sizes are available on Grainger.com®.

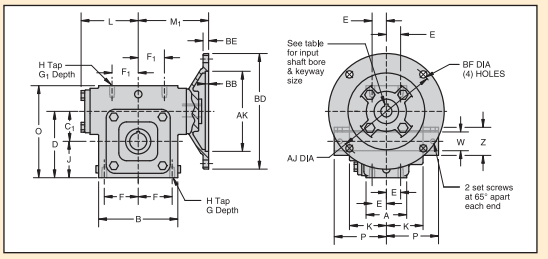
Reducer Model No.	Worm Center Distance	Item No.
Torque Arm Kits		
E20MWSS	2.00"	**3XJF9**
E26MWSS	2.63"	**3XJG1**
E30MWSS	3.00"	**3XJG2**

Reducer Model No.	Worm Center Distance	Driven Shaft O.D.	Driven Shaft Keyway	Item No.
Bronze Bushing Kits				
E20MWSS	2.00"	1¼"	¼ x ⅛"	**3XJF2**
E26MWSS	2.63"	1"	¼ x ⅛"	**3XJF3**
E26MWSS	2.63"	1¼"	¼ x ⅛"	**3XJF4**
E30MWSS	3.00"	1 7⁄16"	⅜ x 3⁄16"	**3XJF6**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
29	56C	2.00"	1345 lb.	60:1	0.3	528 in.-lb.	E20MWSS	**3XJD2**
	56C	2.63"	1823 lb.	60:1	0.75	1268 in.-lb.	E26MWSS	**3XJD7**
	56C/140TC	3.00"	2020 lb.	60:1	1	1766 in.-lb.	E30MWSS	**3XJE5**
	56C/140TC	3.50"	3186 lb.	60:1	2	3573 in.-lb.	E35MWSS	**3XJF1**
35	56C/140TC	2.63"	1823 lb.	50:1	1	1481 in.-lb.	E26MWSS	**3XJD6**
	56C/140TC	3.00"	2020 lb.	50:1	1.5	2305 in.-lb.	E30MWSS	**3XJE4**
43	56C	2.00"	1345 lb.	40:1	0.5	585 in.-lb.	E20MWSS	**3XJC9**
	56C/140TC	3.00"	2020 lb.	40:1	2	2516 in.-lb.	E30MWSS	**3XJE3**
345	180TC	3.00"	1175 lb.	5:1	7.5	1301 in.-lb.	E30MWSS	**3XJD8**
58	56C/140TC	2.63"	1823 lb.	30:1	1.5	1427 in.-lb.	E26MWSS	**3XJD4**
86	56C/140TC	2.00"	1345 lb.	20:1	1	650 in.-lb.	E20MWSS	**3XJC7**
	56C/140TC	2.63"	1823 lb.	20:1	2	1322 in.-lb.	E26MWSS	**3XJD3**
172	56C/140TC	2.00"	1345 lb.	10:1	2	687 in.-lb.	E20MWSS	**3XJC6**
345	56C/140TC	2.00"	1265 lb.	5:1	3	518 in.-lb.	E20MWSS	**3XJC5**
58	56C	2.00"	1345 lb.	30:1	0.75	687 in.-lb.	E20MWSS	**3XJC8**

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*

Winsmith C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings



Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3⁄16 x 3⁄32"	3⁄16 x 3⁄32"	¼ x ⅛"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*

Reducer Model	Worm Center Dist.	Dimensions A	B	C1	D	E	F	F1	G Depth	H Tap	J	L	M1	O	Output Shaft W†	K	P	Z	Keyway
E20MWSS	2.00"	2.38"	5.25"	2.00"	4.13"	0.88"	2.19"	1.69"	0.63"	⅜-16"	2.13"	3.44"	4.06"	5.63"	1.438"	2.63"	3.31"	2.00"	⅜ x ⅛"
E26MWSS	2.63"	3.13"	5.88"	2.63"	5.75"	1.13"	2.44"	2.44"	0.69"	½-13"	3.13"	4.50"	5.38"	7.88"	1.688"	2.81"	3.50"	2.50"	⅜ x 3⁄16"
E30MWSS	3.00"	3.50"	6.62"	3.00"	6.50"	1.31"	2.75"	2.75"	0.75"	½-13"	3.50"	4.63"	5.56"	9.00"	1.938"	3.00"	3.69"	2.63"	½ x 3⁄16"

† Shaft dia. tolerances +0.000, +0.002.



No. 29TL62

FLEXBLOC™ C-Face Right-Angle Hollow-Shaft Speed Reducers

- Universal gear housing
- Adaptable to any mounting position
- Filled with food grade synthetic lubricant
- Includes single and double output shafts with standard keys

Motor coupling provides accurate motor shaft alignment, minimizes fretting, and creates a low backlash/high-strength connection.

Fine-grained bronze alloy worm gear and hardened alloy steel worm pinion gear for durability. Oversize output ball bearings provide high radial and axial load capacities and long service life. Double-lip oil seals. Aluminum alloy housing.

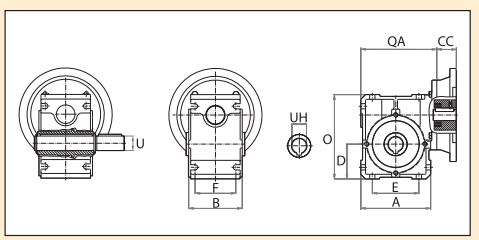
Note: Additional sizes are available on Grainger.com®.

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
18	56C	1.57"	720 lb.	100:1	0.25	301 in.-lb.	SK1SI40Y	**29TL62**
	56C	1.97"	1080 lb.	100:1	0.37	549 in.-lb.	SK1SI50Y	**29TL63**
	56C	2.48"	1415 lb.	100:1	0.63	974 in.-lb.	SK1SI63Y	**29TL64**
22	56C	1.57"	720 lb.	80:1	0.25	327 in.-lb.	SK1SI50Y	**29TL67**
	56C	1.97"	1080 lb.	80:1	0.44	593 in.-lb.	SK1SI50Y	**29TL68**
	56C	2.48"	1415 lb.	80:1	0.75	1044 in.-lb.	SK1SI63Y	**29TL69**
	56C	2.95"	2250 lb.	80:1	1.06	1779 in.-lb.	SK1SI75Y	**29TL70**
29	56C	1.22"	405 lb.	60:1	0.25	212 in.-lb.	SK1SI31Y	**29TL71**
	56C	1.57"	720 lb.	60:1	0.37	354 in.-lb.	SK1SI40Y	**29TL72**
	56C	1.97"	1080 lb.	60:1	0.5	646 in.-lb.	SK1SI50Y	**29TL73**
	56C	2.48"	1415 lb.	60:1	0.88	1150 in.-lb.	SK1SI63Y	**29TL74**
	56C	2.95"	2250 lb.	60:1	1.37	1956 in.-lb.	SK1SI75Y	**29TL75**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
44	56C	1.22"	405 lb.	40:1	0.37	248 in.-lb.	SK1SI31Y	**29TL83**
	56C	1.57"	720 lb.	40:1	0.5	407 in.-lb.	SK1SI40Y	**29TL84**
	56C	1.97"	1080 lb.	40:1	0.88	735 in.-lb.	SK1SI50Y	**29TL85**
	56C	2.95"	2250 lb.	40:1	2.25	2212 in.-lb.	SK1SI75Y	**29TL88**
88	56C	1.22"	405 lb.	20:1	0.5	239 in.-lb.	SK1SI31Y	**29TM09**
	56C	1.57"	720 lb.	20:1	0.75	398 in.-lb.	SK1SI40Y	**29TM10**
117	56C	1.57"	720 lb.	15:1	1.06	434 in.-lb.	SK1SI40Y	**29TM19**
	56C	1.97"	1080 lb.	15:1	1.75	770 in.-lb.	SK1SI50Y	**29TM21**
	56C	2.48"	1415 lb.	15:1	3.06	1372 in.-lb.	SK1SI63Y	**29TM23**
175	56C	1.22"	405 lb.	10:1	0.75	230 in.-lb.	SK1SI31Y	**29TM29**
	56C	1.57"	720 lb.	10:1	1.25	372 in.-lb.	SK1SI40Y	**29TM30**
233	56C	2.48"	1415 lb.	7.5:1	5.06	1230 in.-lb.	SK1SI63Y	**29TM45**
	140TC	2.48"	1415 lb.	7.5:1	5.06	1230 in.-lb.	SK1SI63Y	**29TM46**

**@ 1750 rpm. †To complete Mfr. Model include NEMA Frame and Nominal Ratio values.*

Nord FLEXBLOC™ C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings



Reducer Model	Worm Center Distance	Dimensions A	B	D	E	F	O	QA	U	UH	Motor Frame Dimensions CC 56C	140TC
SK1SI31	1.22"	3.15"	2.48"	1.57"	2.13"	1.73"	3.82"	3.82"	0.625"	0.6250"	1.89"	—
SK1SI40	1.57"	3.94"	3.07"	1.97"	2.76"	2.36"	4.78"	4.69"	0.750"	1.0000"	1.46"	1.93"
SK1SI50	1.97"	4.72"	3.62"	2.36"	3.15"	2.76"	5.67"	5.16"	1.000"	1.1250"	1.46"	1.93"
SK1SI63	2.48"	5.67"	4.41"	2.83"	3.94"	3.35"	6.85"	6.22"	1.125"	1.4375"	1.46"	1.93"
SK1SI75	2.95"	6.77"	5.12"	3.39"	4.72"	3.54"	8.08"	7.87"	1.375"	1.9375"	1.61"	1.61"

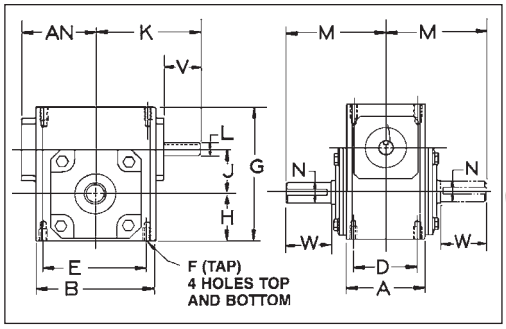
Find the CAD files you need on Grainger.com®

Indirect-Drive Right-Angle Speed Reducers

- Reversible rotation
- All-position mounting, except input shaft down; optional bases available on page 87
- Shipped with Klübersynth UH1 6-460 gear oil No. 34K212
- Double-lip, spring-loaded oil seals; large, prefilled oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) models. The output shaft on single-output models can be field-converted from standard left-hand to right-hand extension. Worm is thread-rolled and alloy-hardened for higher strength and low power loss. Left-hand facing input shaft. Input shaft has ball bearings and output shaft has tapered roller bearings. Cast-iron housing. Flange coupling kits to adapt NEMA 56C-145TC motors to Dayton® right-angle speed reducers sold separately; see below.

FLANGE COUPLING KITS
- Bolt circle dia.: 5.88"
- Mounting hardware and shaft coupling included




No. 6Z419

Worm Center Distance	Dimensions A	B	D	E	F	G	H	J	AN	K	Shaft Dimensions Input Shaft L	V	Keyway	Output Shaft M	N	W	Keyway
1.00"	2.50"	3.25"	1.69"	2.62"	¼-20"	3.63"	1.31"	1.00"	1.63"	2.88"	0.375"	0.81"	0.093 x 0.75"	2.88"	0.499"	1.19"	0.125 x 0.64"
1.33"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	3.91"	0.500"	1.31"	0.125 x 1.38"	4.38"	0.625"	2.08"	0.188 x 1.25"
1.75"	3.69"	5.50"	2.75"	4.19"	5/16-18"	5.75"	2.06"	1.75"	2.75"	4.88"	0.625"	1.56"	0.188 x 1.50"	4.31"	0.875"	1.78"	0.188 x 1.14"
2.06"	3.81"	6.00"	3.00"	4.75"	5/16-18"	6.38"	2.28"	2.06"	3.00"	5.13"	0.625"	1.56"	0.188 x 1.50"	4.69"	1.000"	2.09"	0.250 x 1.32"
2.62	4.44"	7.38"	3.38"	6.38"	3/8-16"	8.00"	2.94"	2.63"	3.69"	6.31"	0.750"	2.00"	0.188 x 1.63"	5.63"	1.250"	2.62"	0.250 x 1.93"

Nom. Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	DOUBLE OUTPUT Item No.	SINGLE OUTPUT Item No.
29	1.33"	275 lb.	60:1	0.25	209 in.-lb.	6Z419	6Z439
	1.75"	700 lb.	60:1	0.3	415 in.-lb.	6Z420	6Z440
	2.06"	875 lb.	60:1	0.5	636 in.-lb.	6Z421	6Z441
	2.62"	1300 lb.	60:1	0.75	1021 in.-lb.	6Z422	6Z442
44	2.06"	875 lb.	40:1	0.5	492 in.-lb.	6Z424	6Z449
	2.62"	1300 lb.	40:1	1	1028 in.-lb.	6Z425	6Z450
58	1.75"	700 lb.	30:1	0.5	401 in.-lb.	6Z426	6Z453
	2.06"	875 lb.	30:1	0.75	610 in.-lb.	6Z427	6Z454
	2.62"	1300 lb.	30:1	1.5	983 in.-lb.	6Z428	6Z455
88	1.75"	700 lb.	20:1	0.75	436 in.-lb.	6Z429	6Z457
	2.06"	875 lb.	20:1	1	586 in.-lb.	6Z430	6Z458
350	1.00"	150 lb.	5:1	0.5	79 in.-lb.	6Z436	6Z469

** @ 1750 rpm.*

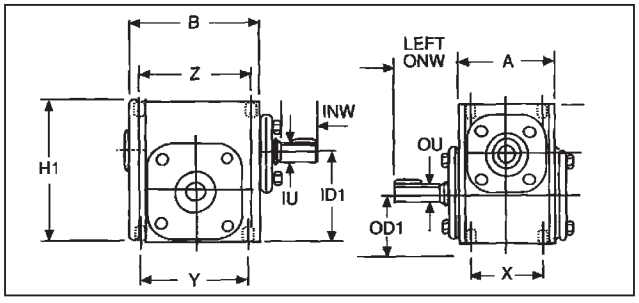
Worm Center Distance	Input Motor Frame Size	Overall Length Reducer & Flange	Motor Coupling Bore	Reducer Coupling Bore	Reducer Coupling Keyway	Item No.
Flange Coupling Kits						
1.33"	56C	7.34"	0.63"	0.50"	0.13 x 0.06"	3A701
1.75"	56C	10.28"	0.63"	0.63"	0.19 x 0.09"	6HJ79
	143TC/145TC	10.28"	0.88"	0.63"	0.19 x 0.09"	6HJ80
2.06"	56C	11.31"	0.63"	0.63"	0.19 x 0.09"	6HJ81
	143TC/145TC	11.31"	0.88"	0.63"	0.19 x 0.09"	6HJ82
2.62"	56C	13.16"	0.63"	0.75"	0.19 x 0.09"	3A706
	143TC/145TC	13.16"	0.88"	0.75"	0.19 x 0.09"	3A707

Indirect-Drive Right-Angle Single-Shaft Speed Reducers

Boston Gear

- All-position mounting (bases sold separately)
- Shipped without oil, use No. 34K212

Heavy-duty worm gear speed reducers have value-engineered features for flexible installation, long life, and simplified maintenance. Integral input worm and shaft are made from case-hardened alloy steel. Oversized ball and roller bearings assure maximum performance. Fine-grained cast-iron housing and output shaft (left-hand facing input shaft).





No. 1L244

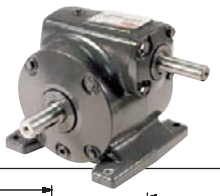
Worm Center Dist.	Overhung Load	Dimensions A	B	H1	X	Y	Z	ID1	Shaft Dimensions INW	Input Shaft IU	Keyway	Output Shaft OD1	ONW	OU	Keyway
1.00"	150 lbs.	2.50"	3.25"	3.63"	1.69"	2.63"	2.63"	2.31"	0.81"	0.375"	3/32 x 3/8"	1.31"	1.19"	0.500"	1/8 x 5/8"
1.33"	200 lbs.	2.88"	4.25"	4.66"	2.00"	3.25"	3.25"	3.05"	1.31"	0.500"	1/8 x 5/8"	1.72"	2.00"	0.625"	3/16 x 1"
1.54"	300 lbs.	3.69"	5.13"	5.38"	2.75"	4.19"	4.19"	3.45"	1.56"	0.625"	3/16 x 13/16"	1.91"	1.78"	0.750"	3/16 x 1"
1.75"	500 lbs.	3.69"	5.50"	5.75"	2.75"	4.19"	4.19"	3.81"	1.56"	0.625"	3/16 x 13/16"	2.06"	1.78"	0.875"	3/16 x 1"
2.06"	700 lbs.	3.81"	6.00"	6.38"	2.88"	5.00"	5.00"	4.34"	1.56"	0.625"	3/16 x 13/16"	2.28"	2.09"	1.000"	1/4 x 1 1/4"
2.38"	900 lbs.	4.06"	6.38"	6.94"	2.88"	5.00"	5.00"	4.88"	2.00"	0.750"	3/16 x 1"	2.50"	2.37"	1.125"	1/4 x 1 1/4"
2.62"	1000 lbs.	4.44"	7.38"	8.00"	3.38"	6.38"	6.38"	5.56"	2.00"	0.750"	3/16 x 1"	2.94"	2.62"	1.125"	1/4 x 1 19/16"

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
29	2.38"	60:1	0.5	772 in.-lb.	724-60-G	1L347
35	1.00"	50:1	0.16	153 in.-lb.	710-50-G	1L244
	1.33"	50:1	0.16	198 in.-lb.	713-50-G	1L265
	1.54"	50:1	0.25	306 in.-lb.	715-50-G	1L275
	2.38"	50:1	0.75	1014 in.-lb.	724-50-G	1L348
44	1.00"	40:1	0.16	148 in.-lb.	710-40-G	1L245
	1.33"	40:1	0.16	165 in.-lb.	713-40-G	1L259
	1.54"	40:1	0.3	342 in.-lb.	715-40-G	1L276
	2.38"	40:1	0.75	837 in.-lb.	724-40-G	1L343
58	1.54"	30:1	0.3	274 in.-lb.	715-30-G	1L277
	2.38"	30:1	1	902 in.-lb.	724-30-G	1L344
70	1.33"	25:1	0.3	238 in.-lb.	713-25-G	1L261

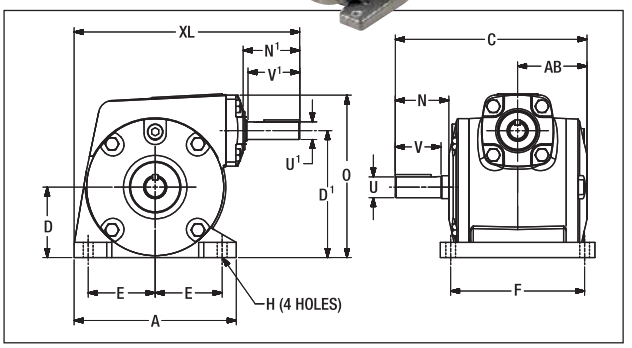
** @ 1750 rpm.*

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
88	1.00"	20:1	0.25	138 in.-lb.	710-20-G	1L247
	1.33"	20:1	0.3	197 in.-lb.	713-20-G	1L262
	1.54"	20:1	0.5	302 in.-lb.	715-20-G	1L278
	2.38"	20:1	1.5	948 in.-lb.	724-20-G	1L341
117	1.54"	15:1	0.75	353 in.-lb.	715-15-G	1L279
	2.38"	15:1	2	990 in.-lb.	724-15-G	1L342
	2.62"	15:1	2	994 in.-lb.	726-15-G	1L353
175	1.54"	10:1	1	330 in.-lb.	715-10-G	1L280
	1.75"	10:1	1.5	499 in.-lb.	718-10-G	1L301
	2.38"	10:1	2	672 in.-lb.	724-10-G	1L345
	2.62"	10:1	3	1024 in.-lb.	726-10-G	1L354
350	1.54"	5:1	1.5	254 in.-lb.	715-5-G	1L281
	1.75"	5:1	2	338 in.-lb.	718-5-G	1L302
	2.06"	5:1	2	338 in.-lb.	721-5-G	1L310
	2.38"	5:1	3	508 in.-lb.	724-5-G	1L346
	2.62"	5:1	3	508 in.-lb.	726-5-G	1L355

Worm Center Distance	Base Width	Base Length	Mfr. Model	Item No.
Cast Iron Mounting Bases, Horizontal				
1.00"	3.69"	4.63"	87874	4NY17
1.33"	4.19"	5.38"	56437	4YA78
1.54"	5.44"	6.44"	56438	4YA79
1.75"	5.69"	7.00"	56439	4YA80
2.06"	5.94"	7.75"	56440	4YA81
2.38"	6.19"	8.50"	56441	4YA82
2.62"	6.66"	9.63"	56442	4YA83



No. 2Z306



Indirect-Drive Right-Angle Single-Shaft Continuous-Duty Speed Reducers

- 2" worm center distance
- 700 lb. overhung load
- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil No. 34K212
- Double-lip oil seals on input and output shafts; spring-loaded inner lip

For high-torque, low-speed applications. Tapered roller bearings. Hardened steel worm gear. Forged bronze worm wheel.

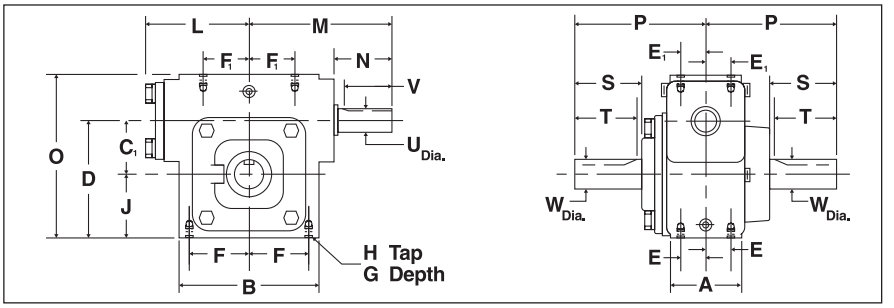
Dimensions (in.)														
A	C	D	D1	E	F	H	N	N1	O	U	U1	V	V1	AB	XL
5.75	6.79	2.5	4.5	2.38	4.75	0.34	1.89	2	5.81	0.7500-0.7490	0.6250-0.6245	1.62	1.88	2.46	8

Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30	58:1	0.3	285.00 in.-lb.	**2Z306**
45	39:1	0.5	337.00 in.-lb.	**2Z307**
67	26:1	0.75	385.00 in.-lb.	**2Z308**
96	18:1	1	360.00 in.-lb.	**2Z309**
157	11:1	1	302.00 in.-lb.	**2Z310**

** @ 1725 rpm.*



No. 4GAX8



Indirect-Drive Right-Angle Double-Shaft Speed Reducers and Bases

- Interchangeable with Winsmith XDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle 460 synthetic lubricant

Black coating system is scratch-resistant and suitable for washdown and outdoor applications. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas. Exceeds ASTM B-117, 1000 hour salt spray test.

WINSMITH HIGH QUALITY SPEED REDUCERS

Reducer Model	Dimensions															Shaft Dimensions: Input Shaft				Shaft Dimensions: Output Shaft			
	A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	M	O	P	U**	N	V	Keyway	W**	S	T	Keyway
E13XWNS	2.00"	3.88"	1.33"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5/16-18"	1.75"	2.83"	4.12"	4.33"	4.00"	0.625"	1.81"	1.63"	0.19 x 0.09"	0.750"	2.06"	1.88"	0.19 x 0.09"
E20XWNS	2.38"	5.25"	2.00"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3/8-16"	2.13"	3.44"	5.00"	5.63"	4.75"	0.750"	2.19"	1.75"	0.19 x 0.09"	1.000"	2.56"	2.31"	0.25 x 0.13"
E26XWNS	3.13"	5.88"	2.63"	5.75"	1.13"	1.13"	2.44"	2.44"	0.69"	1/2-13"	3.13"	4.50"	6.50"	7.88"	5.50"	1.000"	2.75"	2.38"	0.25 x 0.13"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30XWNS	3.50"	6.62"	3.00"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	1/2-13"	3.50"	4.63"	7.00"	9.00"	5.88"	1.000"	3.06"	2.38"	0.25 x 0.13"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35XWNS	3.75"	7.69"	3.50"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5/8-11"	4.00"	5.06"	7.38"	10.13"	7.00"	1.000"	2.31"	2.50"	0.25 x 0.13"	1.750"	3.75"	3.63"	0.38 x 0.19"

*** Shaft diameter tolerance +0.000, -0.001.*

Nominal Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Input HP	Max. Output Torque	Mfr. Model	Item No.
29	2.00"	650 lb.	60:1	0.3	528 in.-lb.	E20XWNS†	**4GAX8**
	2.63"	1025 lb.	60:1	0.75	1268 in.-lb.	E26XWNS†	**4GAX9**
	3.00"	1350 lb.	60:1	1	1766 in.-lb.	E30XWNS†	**4GAZ1**
35	2.00"	650 lb.	50:1	0.5	706 in.-lb.	E20XWNS†	**4GAZ2**
	3.00"	1350 lb.	50:1	1.5	2305 in.-lb.	E30XWNS†	**4GAZ3**
43	1.33"	290 lb.	40:1	0.25	256 in.-lb.	E13XWNS†	**4GAZ4**
	2.00"	650 lb.	40:1	0.5	585 in.-lb.	E20XWNS†	**4GAZ5**
	2.63"	1025 lb.	40:1	1	1223 in.-lb.	E26XWNS†	**4GAZ6**
	3.00"	1350 lb.	40:1	2	2516 in.-lb.	E30XWNS†	**4GAZ7**
58	1.33"	290 lb.	30:1	0.3	276 in.-lb.	E13XWNS†	**4GAZ8**
	2.00"	650 lb.	30:1	0.75	687 in.-lb.	E20XWNS†	**4GAZ9**
	2.63"	1025 lb.	30:1	1.5	1427 in.-lb.	E26XWNS†	**4GCA1**
	3.00"	1350 lb.	30:1	2	1937 in.-lb.	E30XWNS†	**4GCA2**
86	1.33"	290 lb.	20:1	0.3	202 in.-lb.	E13XWNS†	**4GCA3**
	2.00"	650 lb.	20:1	1	650 in.-lb.	E20XWNS†	**4GCA4**
	2.63"	1025 lb.	20:1	2	1322 in.-lb.	E26XWNS†	**4GCA5**
	3.00"	1350 lb.	20:1	3	2009 in.-lb.	E30XWNS†	**4GCA6**
115	1.33"	290 lb.	15:1	0.5	238 in.-lb.	E13XWNS†	**4GCA7**
	2.00"	650 lb.	15:1	1.5	749 in.-lb.	E20XWNS†	**4GCA8**
	3.00"	1350 lb.	15:1	5	2542 in.-lb.	E30XWNS†	**4GCA9**
	3.50"	2130 lb.	15:1	5	2542 in.-lb.	E35XWNS†	**4GCC1**
172	1.33"	290 lb.	10:1	0.75	248 in.-lb.	E13XWNS†	**4GCC2**
	2.00"	650 lb.	10:1	2	687 in.-lb.	E20XWNS†	**4GCC3**
	3.00"	1298 lb.	10:1	5	1722 in.-lb.	E30XWNS†	**4GCC4**
345	1.33"	290 lb.	5:1	1	171 in.-lb.	E13XWNS†	**4GCC5**
	2.00"	572 lb.	5:1	3	518 in.-lb.	E20XWNS†	**4GCC6**
	3.00"	1116 lb.	5:1	7.5	1301 in.-lb.	E30XWNS†	**4GCC7**

** @ 1750 rpm. † To complete Mfr. Model No., add Nominal Ratio.*

Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern Length	Base Mounting Hole Pattern Width	Base Thickness	Item No.
Top Bases					
1.33"	0.406"	4.000"	2.500"	0.250"	**1L382**
1.75"	0.406"	4.000"	3.500"	0.500"	**1L402**
2.00"	0.406"	4.000"	3.500"	0.250"	**1L383**
2.38"	0.563"	5.750"	4.500"	0.750"	**1L399**
2.63"	0.563"	5.750"	4.500"	0.375"	**1L397**
3.50"	0.563"	5.250"	8.250"	0.500"	**1L396**
Top and Bottom Base					
3.00"	0.563"	6.500"	5.250"	0.500"	**1L381**
Bottom Bases					
1.33"	0.406"	4.000"	2.500"	0.375"	**1L379**
1.75"	0.406"	3.810"	3.500"	0.500"	**1L401**
2.00"	0.406"	3.810"	3.500"	0.500"	**1L380**
2.38"	0.563"	5.750"	4.500"	0.625"	**1L400**
2.63"	0.563"	5.750"	4.500"	0.375"	**1L398**
3.50"	0.563"	5.250"	8.250"	0.500"	**1L395**

56C-Face Parallel-Shaft Speed Reducers

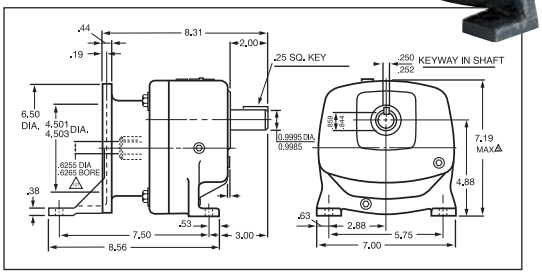
Dayton

- 660 lb. overhung load
- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil, No. 34K212
- Spring-loaded double lip seals on input and output shaft

Precision machined cast-iron housing for accurate alignment of gears. Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Input shaft is ball bearing supported. Output shaft has deep-grooved ball bearings.



No. 2Z932



Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30	57.5:1	0.5	955 in.-lb.	**2Z932**
44	39:1	0.5	651 in.-lb.	**2Z933**
60	29:1	0.5	478 in.-lb.	**2Z934**
91	19:1	0.5	326 in.-lb.	**2Z935**

** @ 1725 rpm.*

C-Face Parallel-Shaft Speed Reducers

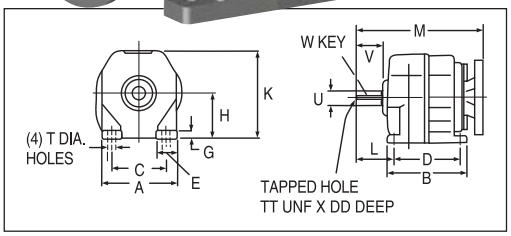
Boston Gear

- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil No. 34K212

Powdered epoxy paint. Dimensionally interchangeable with SEW Eurodrive inline helical reducers. Ratios up to 71:1 in only 2 stages; increases efficiency and reduces case size.



No. 1F880



Nominal Output RPM*	NEMA Frame	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
24	56C	1600 lb.	71:1	1	2303 in.-lb.	F862B-71K-B5-M1	**1F828**
	56C	770 lb.	71:1	0.5	1186 in.-lb.	F842B-71K-B5-M1	**1F846**
27	140TC/180C	1360 lb.	63:1	1.5	3027 in.-lb.	F862B-63K-B7-M1	**1F830**
31	56C	1360 lb.	56:1	1	2018 in.-lb.	F862B-56K-B5-M1	**1F832**
	56C	770 lb.	56:1	0.5	970 in.-lb.	F842B-56K-B5-M1	**1F850**
35	56C	770 lb.	50:1	0.75	1280 in.-lb.	F842B-50K-B5-M1	**1F852**
38	56C	770 lb.	45:1	0.75	1180 in.-lb.	F842B-45K-B5-M1	**1F854**
48	56C	770 lb.	36:1	1	1254 in.-lb.	F842B-36K-B5-M1	**1F856**
62	56C	620 lb.	28:1	1	994 in.-lb.	F842B-28K-B5-M1	**1F858**
	56C	385 lb.	28:1	0.5	491 in.-lb.	F832B-28K-B5-M1	**1F876**
79	140TC/180C	620 lb.	22:1	1.5	1158 in.-lb.	F842B-22K-B7-M1	**1F860**
	56C	385 lb.	22:1	0.75	574 in.-lb.	F832B-22K-B5-M1	**1F878**
97	140TC/180C	620 lb.	18:1	2	1192 in.-lb.	F842B-18K-B7-M1	**1F862**
	56C	385 lb.	18:1	1	483 in.-lb.	F832B-18K-B5-M1	**1F880**

** @ 1725 rpm.*

Reducer Model	Dimensions A	B	C	D	E	G	H	K	L	U	V	TT (UNF)	DD (DEEP)	M 56C	140TC	180TC	210TC	W - Key SQ	Length
F832B	5.44"	4.33"	4.33"	3.35"	1.05"	0.48"	2.95"	5.79"	2.28"	0.75"	1.57"	0.25"	0.63"	9.82"	9.82"	10.65"	—	0.19"	1.28"
F842B	5.71"	6.30"	4.33"	5.12"	1.48"	0.67"	3.54"	6.99"	2.95"	1.00"	1.97"	0.25"	0.63"	10.73"	10.73"	11.55"	—	0.25"	1.75"
F862B	7.48"	7.87"	5.31"	6.50"	2.19"	0.81"	4.53"	9.06"	3.54"	1.25"	2.36"	0.38"	0.87"	12.26"	12.26"	14.61"	14.61"	0.25"	2.00"

BISON

56C-Face Parallel-Shaft Speed Reducers

Provide the power required for applications in many different industries. Designed with a precision machined die-cast aluminum housing, these reducers can be aligned seamlessly to drive most OEM equipment. Equipped with high quality helical and spur gearing. Factory lubricated for life.



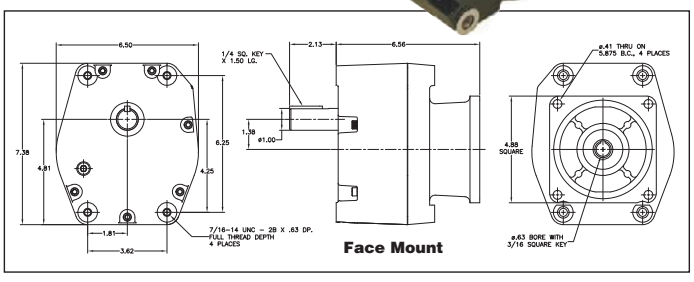
No. 35FT35

Note: Additional sizes are available on Grainger.com®.

Item	Mfr. Model	Item No.
Mounting Brackets		
Mounting L Bracket	P125-880-0003	**35FT55**
Mounting Footplate	P125-880-0004	**35FT56**

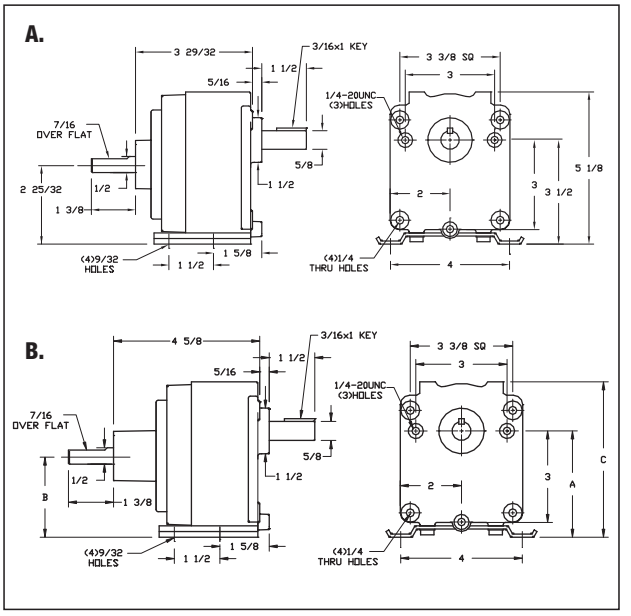
Nom. Output RPM*	Overhung Load	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
12	1383 lb.	142.9:1	3	0.25	992 in.-lb.	060-881-2143	**35FT53**
22	1165 lb.	79:1	3	0.5	1195 in.-lb.	060-881-2079	**35FT51**
60	838 lb.	27.8:1	3	1	1137 in.-lb.	060-881-2029	**35FT45**
97	680 lb.	17.8:1	2	1.25	902 in.-lb.	060-881-2018	**35FT43**
253	506 lb.	6.8:1	2	1.5	399 in.-lb.	060-881-2007	**35FT39**
339	467 lb.	5:1	2	1.5	275 in.-lb.	060-881-2005	**35FT37**
457	425 lb.	3.8:1	2	1.5	204 in.-lb.	060-881-2004	**35FT35**

** @ 1725 rpm.*



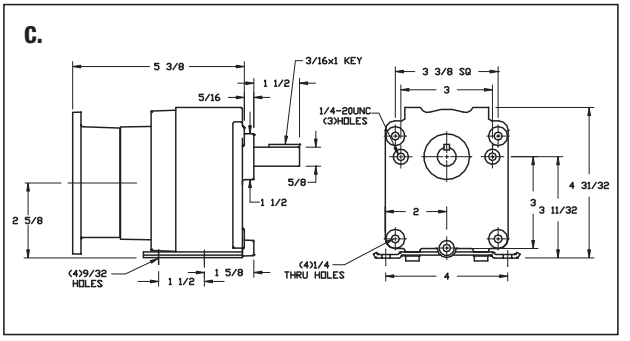


A. and B.
Indirect Drive





C.
42CZ/48C-Face



Dayton

Indirect-Drive and 42CZ/48C-Face Parallel-Shaft Speed Reducers with Base

- All-position mounting using face, base, and top
- Shipped with heavy-duty SAE 80W-90 oil lubricant in gearcase
- Spring-loaded lip oil seals on input and output shafts

Base allows high or low positioning of output shaft; face-mounting holes on output side of reducer. Heat-treated steel pinion with helical first stage gearing. Heavy-duty needle and ball bearings with thrust balls. Die-cast aluminum gearcase housing.

Item No.	Key	Dimensions (in.) A	B	C
4Z498	B	3.328	2.625	4.953
4Z499 to 4Z503	B	3.718	3.000	5.344

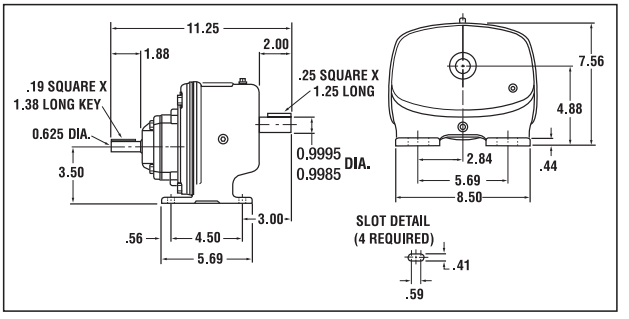
† C-Face units contain a 0.500" dia. bore with 0.125 x 0.062" keyway.

Key	Nom. Output RPM*	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers						
A	15	118.5:1	3	1/20	200 in.-lb.	**2Z819**
A	33	52.9:1	2	1/10	175 in.-lb.	**2Z820**
A	72	23.4:1	2	1/8	100 in.-lb.	**2Z821**
B	19	92:1	3	1/10	290 in.-lb.	**4Z498**
B	34	51:1	3	1/8	260 in.-lb.	**4Z499**
B	48	36:1	3	1/4	295 in.-lb.	**4Z500**
B	61	28.1:1	2	1/4	225 in.-lb.	**4Z501**
B	90	19:1	2	1/3	225 in.-lb.	**4Z502**
B	135	13:1	2	1/3	175 in.-lb.	**4Z503**
42CZ/48C-Face Speed Reducers †						
C	20	87.8:1	3	1/10	254 in.-lb.	**1L515**
C	30	58.3:1	3	1/8	278 in.-lb.	**1L537**
C	49	35.8:1	3	1/4	295 in.-lb.	**1L514**
C	62	28.1:1	2	1/4	240 in.-lb.	**1L513**
C	77	22.7:1	2	1/4	184 in.-lb.	**1L512**
C	92	19.1:1	2	1/3	226 in.-lb.	**1L511**
C	138	12.7:1	2	1/3	176 in.-lb.	**1L516**

**** @ 1725 rpm. Maximum input speed is 1750 rpm.***

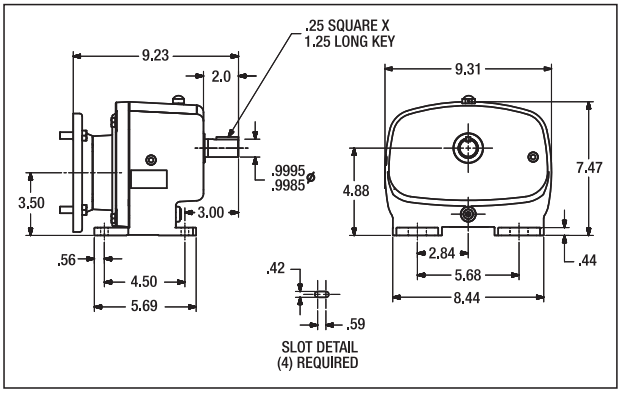


Indirect-Drive





56C-Face



Dayton

Indirect-Drive and 56C-Face Parallel-Shaft Speed Reducers

- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil, No. 34K212
- Spring-loaded double-lip seals on input and output shafts

Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Ball bearing-supported input shaft; deep-grooved ball bearing output shaft. Cast-aluminum gearcase.

Nom. Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers					
20	1192 lb.	87:1	0.3	998 in.-lb.	**4Z856**
30	885 lb.	57.5:1	0.5	998 in.-lb.	**4Z857**
45	863 lb.	38.5:1	0.5	665 in.-lb.	**4Z858**
56	712 lb.	31:1	0.75	816 in.-lb.	**4Z859**
100	773 lb.	17.5:1	0.75	454 in.-lb.	**4Z860**
140	709 lb.	12.5:1	1	427 in.-lb.	**4Z861**
56C-Face Speed Reducers					
20	1192 lb.	87:1	0.3	998 in.-lb.	**4Z720**
30	885 lb.	57.5:1	0.5	998 in.-lb.	**4Z614**
45	863 lb.	38.5:1	0.5	665 in.-lb.	**4Z615**
56	712 lb.	31:1	0.75	816 in.-lb.	**4Z616**
100	773 lb.	17.5:1	0.75	454 in.-lb.	**4Z617**
140	709 lb.	12.5:1	1	427 in.-lb.	**4Z719**

**** @ 1725 rpm.***

Double C-Face Magnetic Disc Brakes

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"
- 60/50 Hz
- Mounting: horizontal

Direct-acting spring-set brakes use 1 moving part to engage and hold load under power-off conditions. Brake is designed to convert C-face motors and gearmotors to brake motors or brake gearmotors. Models with 56C/140TC NEMA frame have ⅞" O.D. x ⅝" I.D. shaft bushing. CSA Certified; washdown brakes BISSC Certified.

Standard Dripproof—Used in indoor applications such as conveyors and door openers.

Waterproof/Dust-tight—Used in indoor and outdoor applications where dirt and moisture are present.

Washdown—Used in food and dairy applications. Comply with 3A dairy standards pertaining to nonproduct-contact surfaces and with NEMA DEF.MG1-1.26.6 for waterproof machines. USDA-approved white epoxy paint.

Dayton

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.



No. 6K233



No. 1L388

Static Torque	NEMA Frame	Max. HP @ 1725 rpm	Max. HP @ 3450 rpm	STANDARD DRIPPROOF Item No.	WATERPROOF/ DUST-TIGHT Item No.	WASHDOWN Item No.
115/208-230V, 110/208-220V, 60/50 Hz						
3 ft.-lb.	56C	1	2	**6K233**	**2LYU1**	**1L388**
6 ft.-lb.	56C/140TC	2	3	**3M366**	**2LYU2**	**1L389**
115/208-230V, 95/174-190V, 60/50 Hz						
10 ft.-lb.	56C/140TC	3	5	**2LYT6**	**2LYU3**	**2LYU7**
208-230/460V, 174-190/380V, 60/50 Hz						
3 ft.-lb.	56C	1	2	**2LYT7**	**2LYU4**	**2LYU8**
6 ft.-lb.	56C/140TC	2	3	**2LYT8**	**2LYU5**	**2LYU9**
10 ft.-lb.	56C/140TC	3	5	**2LYT9**	**2LYU6**	**2LYV1**

Dayton

End-Mount Standard Dripproof Magnetic Disc Brakes



No. 5URA0

- Service factor: 1.4
- Max. ambient: 40°C
- Coil lead length: 18"
- 60/50 Hz
- Mounting: horizontal
- Interchangeable with Stearns Series 56,000

Direct-acting spring-set brakes have single-point air gap adjustment, factory set for plug-and-run assembly for easy maintenance. Have no linkage to wear, which helps extend service life. Knockout hole in cover accommodates through-shaft brake motors with fans. Suitable for use in conveyors, packaging machines, hoist end-trucks, security/toll booth gates, and sorting machines.

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

Static Torque	NEMA Frame	HP @ 1725 rpm	HP @ 3450 rpm	Item No.
115-208/230VAC, 95/174-190VAC, 60/50 Hz				
3 ft.-lb.	56C	½	1	**5URA0**
6 ft.-lb.	56C	1	2	**5URA1**
10 ft.-lb.	143/145TC	2	3	**5URA2**
15 ft.-lb.	143/145TC	3	5	**5URA3**
208-230/460VAC, 174-190/380VAC, 60/50 Hz				
3 ft.-lb.	56C	½	1	**5URA4**
6 ft.-lb.	56C	1	2	**5URA5**
10 ft.-lb.	143/145TC	2	3	**5URA6**
15 ft.-lb.	143/145TC	3	5	**5URA7**

Dayton

Magnetic Disc Brakes, 1- and 2-Disc Design



No. 4Z447



No. 5X400

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"

1-Disc—Includes replacement fan and endbell for converting TEFC gearmotors to brake gearmotors. To see which gearmotors use this brake, go to Grainger.com®.

2-Disc—Factory set to provide ¾ ft.-lb. stopping and holding torque. To reduce torque to ⅜ ft.-lbs., remove 1 disc. Use with shaded-pole, split-phase and permanent split-capacitor gearmotors.

- Max. ¼ HP for ¾ ft.-lb., 2-disc use
- Max. 1/15 HP for ⅜ ft.-lb., 1-disc use

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

Description	Static Torque	Item No.
1-Disc		
115/230, 60 Hz	1½ ft.-lb.	**4Z447**
230/460, 60 Hz	1½ ft.-lb.	**2LYV2**
2-Disc		
115, 60 Hz	⅜ and ¾ ft.-lb.	**5X400**

Warner Electric

C-Face Clutches and Brakes

Patented Autogaps™ technology allows clutch and brake to automatically adjust for wear, requiring no lubrication or maintenance.

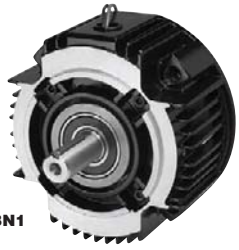
Packaged NEMA C-face clutch/brake modules offer high-performance starting and stopping of loads, with the motor running, in an easy-to-install package. Mount to NEMA C-face motor or between motor and reducer. Power on engagement of the brake and clutch. Use the HP vs. Shaft Speed Selection Table to select the proper unit for your application. UL Listed and CSA Certified.

Note: Brake is not intended for accurate positioning applications or vertical holding applications, such as vertical conveyors or hoists.

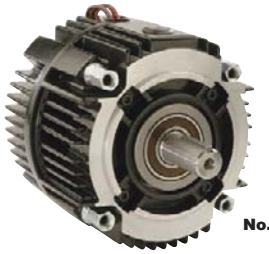
Clutch/Brake Controls—Mount on standard module conduit boxes. Green LED indicates power to clutch; red LED indicates power to brake.

HP vs. SHAFT SPEED SELECTION TABLE
CAUTION: RPM refers to shaft speed at clutch or brake.
Based on 2.75 service factor.

RPM x 100 / HP	2	4	6	8	10	12	15	18	20	24	30	36
¼												
⅓												
½									16 Ft.-Lbs. Torque			
¾												
1												
1½						30 Ft.-Lbs. Torque						
2												
3				95 Ft.-Lbs. Torque (210 Series)								
5												
7½								95 Ft.-Lbs. Torque (215 Series)				
10												



No. 2DBN1



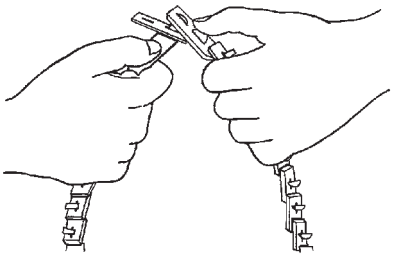
No. 2DBK6

Series	Static Torque	Shaft Dia.	Enclosure	Max. rpm	NEMA/IEC Frame	Length	Width	Mfr. Model	Item No.
C-Face Brakes									
24 Volts (DC)									
EM-180	30 ft.-lb.	⅞"	Vented	3600	182C/143TC/184C/145TC	5¼"	6¾"	EM180-20-24	**2DBN6**
90 Volts (DC)									
EM-50	16 ft.-lb.	⅝"	Vented	3600	56C	5⅜16"	6¾"	EM50-20-90	**2DBN1**
EM-100	30 ft.-lb.	⅝"	Vented	3600	56C	5⅜16"	6¾"	EM100-20-90	**2DBN3**
EM-180	30 ft.-lb.	⅞"	Vented	3600	182C/143TC/184C/145TC	5¼"	6¾"	EM180-20-90	**2DBN5**
C-Face Clutches									
90 Volts (DC)									
UM-50	16 ft.-lb.	⅝"	Vented	3600	56C	6¾"	6¾"	UM50-1040	**2DBL5**
UM-100	30 ft.-lb.	⅝"	Vented	3600	56C	6¾"	6¾"	UM100-1040	**2DBL6**
Clutch/Brakes									
90 Volts (DC)									
UM-50	16 ft.-lb.	⅝"	Vented	3600	56C	6¾"	6¾"	UM50-1020-90	**2DBK6**
UM-100	30 ft.-lb.	⅝"	Vented	3600	56C	6¾"	6¾"	UM100-1020-90	**2DBK8**
UM-180	30 ft.-lb.	⅞"	Vented	3600	182C/143TC/184C/145TC	6¾"	6¾"	UM180-1020-90	**2DBL1**

Description	Length	Width	Mfr. Model	Item No.
Clutch/Brake Controls, For Use with All Series 90V Clutch/Brakes				
120VAC Input, 90VDC Output	3⅛"	2⅜16"	CBC-150-1	**2DBN9**
220-240VAC Input, 90VDC Output	3⅛"	2⅜16"	CBC-150-2	**2DBP1**
Motor Mounting Kits				
For Use With Series UM-50/UM-100	11"	9¼"	5370-101-078	**2DBP2**
For Use With Series UM-180	11"	9¼"	5370-101-079	**2DBP3**
Accessories				
Cover Kit, to Convert Vented Housing to Enclosed Housing, For Use With Series UM-50/UM-100/UM-180	2²⁹⁄₃₂"	2¹³⁄₁₆"	5370-101-076	**2DBP5**
Conduit Box Kit, For Use with Series 50, 100, and 180 Models	3¼"	2⅜16"	5370-101-042	**2DBP6**



No. 48ZY73





No. 401P91



No. 49YL74



No. 49YL81

Fenner Drives® POWERTWIST DRIVE POWERTWIST

Premium Link Belts

- Composite polyurethane/polyester construction
- Superior resistance to oil, water, and chemicals
- Temp. range: -40° to 240°F

Belts can be easily installed without dismantling drives.

PowerTwist® Drive V-Belts—This long-lasting, permanent upgrade for V-belt drives offers reduced drive vibration and fit-and-forget installation with no need to re-tension. The belts assemble to any length so you need not stock multiple belt sizes.

PowerTwist Wedge Belts—Heavy-duty abrasive-resistant belts are a drop-in upgrade for your rubber wedge belts in big shock-loaded applications with multi-belt drives. Easily adjust to any length within seconds.

PowerTwist Standard V-Belts—Quick replacement for failed rubber V-belts can be assembled to any length so you always have the right belt on hand.

PowerTwist Roller Drive™ Belts—Quickly and permanently replace belts on live roller conveyors. Drop-in replacement for B section V-belts on any live roller conveyor or 9/16" round profile belts on Rapistan® Conveyor Systems.

Outside L	V-Belt Section	Top Width	Color	Mfr. Model	Item No.
PowerTwist Drive V-Belts					
25 ft.	3L	3/8"	Red	0405010	**48ZY71**
	A, 4L	1/2"	Red	0405030	**48ZY73**
	B, 5L	5/8"	Red	0405050	**48ZY75**
	C	7/8"	Red	0405070	**48ZY77**
100 ft.	3L	3/8"	Red	0408010	**48ZY72**
	A, 4L	1/2"	Red	0408030	**48ZY74**
	B, 5L	5/8"	Red	0408050	**48ZY76**
	C	7/8"	Red	0408070	**48ZY78**
PowerTwist Wedge Belts					
25 ft.	3V	3/8"	Blue	0460025	**401P89**
	5V	5/8"	Blue	0460125	**401P91**
100 ft.	3V	3/8"	Blue	0460000	**401P90**
	5V	5/8"	Blue	0460100	**401P92**

PowerTwist Standard Round Belts—Round-profile belts drop right into your existing equipment and are extremely flexible, making them ideally suited for use with small pulley/idler diameters. Replace round rubber or urethane belts.

Outside L	V-Belt Section	Top Width	Color	Mfr. Model	Item No.
PowerTwist Standard V-Belts					
5 ft.	A, 4L	1/2"	Gray	0428035	**49YL73**
6 ft.	B, 5L	5/8"	Gray	0428056	**49YL76**
25 ft.	3L	3/8"	Gray	0450025	**49YL71**
	A, 4L	1/2"	Gray	0450125	**49YL74**
	B, 5L	5/8"	Gray	0450225	**49YL77**
	C	7/8"	Gray	0450325	**49YL79**
100 ft.	3L	3/8"	Gray	0450000	**49YL72**
	A, 4L	1/2"	Gray	0450100	**49YL75**
	B, 5L	5/8"	Gray	0450200	**49YL78**
	C	7/8"	Gray	0450300	**49YL80**
PowerTwist Roller Drive V-Belts					
25 ft.	B	5/8"	Red	0410300-25	**19RU04**
100 ft.	B	5/8"	Red	0410300	**19RU05**
Overall Length	**Dia.**	**Min. Pulley Dia.**	**Color**	**Mfr. Model**	**Item No.**
PowerTwist Standard Round Belts					
25 ft.	9/16"	5 5/8"	Gray	0451225	**49YL81**
100 ft.	9/16"	5 5/8"	Gray	0451200	**49YL82**



No. 3PEA7



No. 3PEA8

Continental ContiTech

Electronic Alignment and Tension Diagnostic Tools

Laser Alignment Tool—Confirms horizontal and vertical sheave alignment. Designed for sheaves 60mm dia. or greater. CE Certified.

TensionRite® Belt Frequency Meter—Optical sensor indicates belt tension. Use on all rubber compound belts. CE Certified.

Description	Includes	Item No.
Laser Alignment Tool	(2) Magnet Targets, AA Battery	**3PEA7**
TensionRite® Belt Frequency Meter	Calibration Tuning Fork, Protective Case, (4) AA Batteries	**3PEA8**







No. 31CD50

BANDO

Tension Meter

Tension Master™ measures the vibration frequency of the actual belt, not the air around the belt, for a more accurate reading than competitive systems. The free downloadable app includes all the required belt parameters, requiring much less data input by the end user than other systems require. Can also be used to measure vibration frequency in any type of equipment. Includes tension meter, batteries, sensor, and adhesive pads.

Description	Mfr. Model	Item No.
Belt Tensioning Kit	BUI 4006	**31CD50**
Replacement Sensor with Cord	BUI 4009	**30NX23**
Replacement Adhesive Tabs, Pkg. of 30	BUI 4010	**30NX24**

Selection Guidelines

FOR DIRECT REPLACEMENT WHEN ORIGINAL BELT PART NUMBER IS AVAILABLE

Match ARPM (Association of Rubber Products Manufacturers) number/manufacturer's part number (from your existing V-belt), then make selection from the following pages. Dayton® V-belts conform to ARPM standards.

WHEN ORIGINAL BELT PART NUMBER IS NOT AVAILABLE

When replacing V-belts with worn markings, use the belt cross-sections at the top of each page to identify the belt type. Belt length can be determined by using either V-Belt Rule No. 6AGK6 (available on page 105), or by using the Belt Length Formula calculation on this page.

BELT INTERCHANGE*

ARPM Belt Size	BROWNING	CONTITECH/ GOODYEAR	GATES	DAYCO
3L, 4L, 5L	FHP	Fractional HP	Truflex	Durapower FHP
A, B, C	Super Gripbelts	Hy-T	Hi-Power	Super Blue Ribbon
AX, BX, CX	Gripnotch	Torque-Flex	Tri-Power	Gold Label® Cog Belt
3VX, 5VX	358	HY-T Wedge	HY-T Wedge	Power Wedge Vee Cog-Belt

* Call 1-800-GRAINGER (472-4643) for assistance with cross-referencing specific part numbers.
Additional V-belt lengths are available on Grainger.com®

Sheave Pitch Diameters

TO CALCULATE MOTOR SHEAVE PITCH DIAMETER

Multiply driven sheave rpm by driven sheave pitch diameter and divide by motor sheave rpm.

TO CALCULATE DRIVEN SHEAVE PITCH DIAMETER

Multiply motor sheave rpm by motor sheave pitch diameter and divide by driven sheave rpm.

FORMULA

(Motor Sheave P.D.) x (Motor Sheave rpm) = (Driven Sheave P.D.) x (Driven Sheave rpm)

V-Belt Length Formula

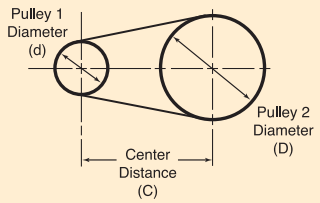
Dayton® V-belts interchange with major brands such as Browning®, Carlisle, ContiTech, Dayco®, Gates®, Goodyear®, and others.

BELT LENGTH FORMULA

exact: $L = 2C + 1.57\,(D+d) + \frac{(D-d)^2}{4C}$

approximate: $L = 2C + 1.57\,(D+d) + \frac{(D-d)^2}{4C}$

L = Pitch Length of Belt
C = Center Distance
D = Pitch Diameter of Large Sheave
d = Pitch Diameter of Small Sheave



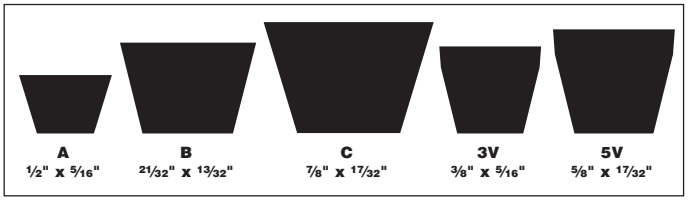
2L, 3L, 4L, and 5L Fractional Horsepower V-Belts

Dayton®

All belts are oil- and heat-resistant. 3L, 4L, and 5L belts are static-conductive. 2L belts are cogged. These Dayton® V-belts interchange with major brands such as Browning®, Carlisle, ContiTech, Dayco®, Gates®, Goodyear®, and others. They are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).



Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.
2L (1/4" Top Width by 5/32" Thick)			**3L (3/8" Top Width by 7/32" Thick) (Cont.)**			**4L (1/2" Top Width by 5/16" Thick) (Cont.)**			**4L (1/2" Top Width by 5/16" Thick) (Cont.)**			**5L (21/32" Top Width by 3/8" Thick) (Cont.)**		
2L100	10"	**13V770**	3L450	45"	**3L450**	4L340	34"	**4L340**	4L830	83"	**3GWD9**			
2L110	11"	**13V771**	3L460	46"	**3L460**	4L350	35"	**4L350**	4L840	84"	**4L840**	5L530	53"	**5L530**
2L120	12"	**13V772**	3L470	47"	**3L470**	4L360	36"	**4L360**	4L850	85"	**3GWE1**	5L540	54"	**5L540**
2L130	13"	**13V773**	3L480	48"	**3L480**	4L370	37"	**4L370**	4L860	86"	**4L860**	5L550	55"	**5L550**
2L140	14"	**13V774**	3L490	49"	**3L490**	4L380	38"	**4L380**	4L870	87"	**3GWE2**	5L560	56"	**5L560**
2L150	15"	**13V775**	3L500	50"	**3L500**	4L390	39"	**4L390**	4L880	88"	**4L880**	5L570	57"	**5L570**
2L160	16"	**13V776**	3L510	51"	**3L510**	4L400	40"	**4L400**	4L890	89"	**3GWE3**	5L580	58"	**5L580**
2L170	17"	**13V777**	3L520	52"	**3L520**	4L410	41"	**4L410**	4L900	90"	**4L900**	5L590	59"	**5L590**
2L180	18"	**13V778**	3L530	53"	**3L530**	4L420	42"	**4L420**	4L910	91"	**3GWE4**	5L600	60"	**5L600**
2L190	19"	**13V779**	3L540	54"	**3L540**	4L430	43"	**4L430**	4L920	92"	**4L920**	5L610	61"	**5L610**
2L200	20"	**13V780**	3L550	55"	**3L550**	4L440	44"	**4L440**	4L930	93"	**3GWE5**	5L620	62"	**5L620**
2L240	24"	**13V781**	3L560	56"	**3L560**	4L450	45"	**4L450**	4L940	94"	**4L940**	5L630	63"	**5L630**
2L260	26"	**13V782**	3L570	57"	**3L570**	4L460	46"	**4L460**	4L950	95"	**3GWE6**	5L640	64"	**5L640**
2L280	28"	**13V783**	3L580	58"	**3L580**	4L470	47"	**4L470**	4L960	96"	**4L960**	5L650	65"	**5L650**
2L340	34"	**13V784**	3L590	59"	**3L590**	4L480	48"	**4L480**	4L970	97"	**3GWE7**	5L660	66"	**5L660**
3L (3/8" Top Width by 7/32" Thick)			3L600	60"	**3L600**	4L490	49"	**4L490**	4L980	98"	**4L980**	5L670	67"	**5L670**
3L110	11"	**3GWD2**	3L610	61"	**3L610**	4L500	50"	**4L500**	4L990	99"	**3GWE8**	5L680	68"	**5L680**
3L120	12"	**3GWD3**	3L620	62"	**13V785**	4L510	51"	**4L510**	4L1000	100"	**3X543**	5L690	69"	**5L690**
3L130	13"	**3GWD4**	3L630	63"	**13V786**	4L520	52"	**4L520**	**5L (21/32" Top Width by 3/8" Thick)**			5L700	70"	**5L700**
3L140	14"	**3GWD5**	3L640	64"	**13V787**	4L530	53"	**4L530**	5L230	23"	**5L230**	5L710	71"	**5L710**
3L150	15"	**3L150**	3L650	65"	**13V788**	4L540	54"	**4L540**	5L240	24"	**5L240**	5L720	72"	**5L720**
3L160	16"	**3L160**	3L660	66"	**13V789**	4L550	55"	**4L550**	5L250	25"	**5L250**	5L730	73"	**5L730**
3L170	17"	**3L170**	3L670	67"	**13V790**	4L560	56"	**4L560**	5L260	26"	**5L260**	5L740	74"	**5L740**
3L180	18"	**3L180**	3L680	68"	**13V791**	4L570	57"	**4L570**	5L270	27"	**5L270**	5L750	75"	**5L750**
3L190	19"	**3L190**	3L690	69"	**13V792**	4L580	58"	**4L580**	5L280	28"	**5L280**	5L760	76"	**5L760**
3L200	20"	**3L200**	3L700	70"	**13V793**	4L590	59"	**4L590**	5L290	29"	**5L290**	5L770	77"	**5L770**
3L210	21"	**3L210**	3L710	71"	**13V794**	4L600	60"	**4L600**	5L300	30"	**5L300**	5L780	78"	**5L780**
3L220	22"	**3L220**	3L720	72"	**13V795**	4L610	61"	**4L610**	5L310	31"	**5L310**	5L790	79"	**5L790**
3L230	23"	**3L230**	3L730	73"	**13V796**	4L620	62"	**4L620**	5L320	32"	**5L320**	5L800	80"	**5L800**
3L240	24"	**3L240**	3L740	74"	**13V797**	4L630	63"	**4L630**	5L330	33"	**5L330**	5L810	81"	**3GWE9**
3L250	25"	**3L250**	**4L (1/2" Top Width by 5/16" Thick)**			4L640	64"	**4L640**	5L340	34"	**5L340**	5L820	82"	**5L820**
3L260	26"	**3L260**	4L150	15"	**3GWD6**	4L650	65"	**4L650**	5L350	35"	**5L350**	5L830	83"	**3GWF1**
3L270	27"	**3L270**	4L160	16"	**3GWD7**	4L660	66"	**4L660**	5L360	36"	**5L360**	5L840	84"	**5L840**
3L280	28"	**3L280**	4L170	17"	**4L170**	4L670	67"	**4L670**	5L370	37"	**5L370**	5L850	85"	**3GWF2**
3L290	29"	**3L290**	4L180	18"	**4L180**	4L680	68"	**4L680**	5L380	38"	**5L380**	5L860	86"	**5L860**
3L300	30"	**3L300**	4L190	19"	**4L190**	4L690	69"	**4L690**	5L390	39"	**5L390**	5L870	87"	**3GWF3**
3L310	31"	**3L310**	4L200	20"	**4L200**	4L700	70"	**4L700**	5L400	40"	**5L400**	5L880	88"	**5L880**
3L320	32"	**3L320**	4L210	21"	**4L210**	4L710	71"	**4L710**	5L410	41"	**5L410**	5L890	89"	**3GWF4**
3L330	33"	**3L330**	4L220	22"	**4L220**	4L720	72"	**4L720**	5L420	42"	**5L420**	5L900	90"	**5L900**
3L340	34"	**3L340**	4L230	23"	**4L230**	4L730	73"	**4L730**	5L430	43"	**5L430**	5L910	91"	**3GWF5**
3L350	35"	**3L350**	4L240	24"	**4L240**	4L740	74"	**4L740**	5L440	44"	**5L440**	5L920	92"	**5L920**
3L360	36"	**3L360**	4L250	25"	**4L250**	4L750	75"	**4L750**	5L450	45"	**5L450**	5L930	93"	**3GWF6**
3L370	37"	**3L370**	4L260	26"	**4L260**	4L760	76"	**4L760**	5L460	46"	**5L460**	5L940	94"	**5L940**
3L380	38"	**3L380**	4L270	27"	**4L270**	4L770	77"	**4L770**	5L470	47"	**5L470**	5L950	95"	**3GWF7**
3L390	39"	**3L390**	4L280	28"	**4L280**	4L780	78"	**4L780**	5L480	48"	**5L480**	5L960	96"	**5L960**
3L400	40"	**3L400**	4L290	29"	**4L290**	4L790	79"	**4L790**	5L490	49"	**5L490**	5L970	97"	**3GWF8**
3L410	41"	**3L410**	4L300	30"	**4L300**	4L800	80"	**4L800**	5L500	50"	**5L500**	5L980	98"	**5L980**
3L420	42"	**3L420**	4L310	31"	**4L310**	4L810	81"	**3GWD8**	5L510	51"	**5L510**	5L990	99"	**3GWF9**
3L430	43"	**3L430**	4L320	32"	**4L320**	4L820	82"	**4L820**	5L520	52"	**5L520**	5L1000	100"	**3X544**
3L440	44"	**3L440**	4L330	33"	**4L330**									



Find more information on V-Belts on page 97.

A, B, C, 3V, and 5V V-Belts

Dayton

All belts are oil- and heat-resistant, and static-conductive, and interchange with brands such as Browning®, Carlisle, ContiTech, Dayco®, Gates®, and Goodyear®. These Dayton V-belts are built to matching specifications, so all belts of the same size are within the tolerences set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Outside L	Item No.
A (½" Top Width by 5/16" Thick)		
A18	20"	**3GWG1**
A19	21"	**3GWG2**
A20	22"	**3GWG3**
A21	23"	**3GWG4**
A22	24"	**3GWG5**
A23	25"	**3GWG6**
A24	26"	**3GWG7**
A25	27"	**3GWG8**
A26	28"	**3X697**
A27	29"	**6A139**
A28	30"	**6A140**
A29	31"	**6A141**
A30	32"	**1A095**
A31	33"	**3X654**
A32	34"	**6A142**
A33	35"	**5X995**
A34	36"	**6A143**
A35	37"	**3X620**
A36	38"	**6A144**
A37	39"	**6A145**
A38	40"	**3X545**
A39	41"	**6A146**
A40	42"	**1A109**
A41	43"	**1A100**
A42	44"	**3X621**
A43	45"	**3X699**
A44	46"	**6A147**
A45	47"	**1A105**
A46	48"	**3X471**
A47	49"	**1A098**
A48	50"	**3X472**
A49	51"	**1A096**
A50	52"	**3X546**
A51	53"	**3X473**
A52	54"	**3X702**
A53	55"	**6X565**
A54	56"	**3X700**
A55	57"	**3X622**
A56	58"	**3X704**
A57	59"	**6A148**
A58	60"	**3X547**
A59	61"	**6A149**
A60	62"	**3X623**
A61	63"	**6A150**
A62	64"	**3X624**
A63	65"	**5A290**
A64	66"	**3X625**
A65	67"	**5A291**
A66	68"	**6X569**
A67	69"	**6L182**
A68	70"	**3X626**
A69	71"	**6L183**
A70	72"	**6A151**
A71	73"	**3X627**
A72	74"	**5A292**
A73	75"	**6L184**
A74	76"	**5A293**
A75	77"	**3X628**
A76	78"	**6L185**
A77	79"	**6L186**
A78	80"	**6X570**
A79	81"	**6L187**
A80	82"	**3X629**
A81	83"	**6L188**
A82	84"	**6L189**
A83	85"	**6L190**
A84	86"	**5A294**
A85	87"	**3X630**
A86	88"	**6L318**
A87	89"	**6L191**
A88	90"	**5A295**
A89	91"	**6L192**
A90	92"	**3X631**
A91	93"	**6L193**
A92	94"	**6A152**
A93	95"	**6L194**
A94	96"	**6L195**
A95	97"	**6L196**
A96	98"	**3X632**
A97	99"	**6L197**
A98	100"	**6L198**
A100	102"	**6L199**
A101	103"	**3GWG9**
A102	104"	**3GWH1**
A103	105"	**6L200**

Industry No.	Outside L	Item No.
A (½" Top Width by 5/16" Thick) (Cont.)		
A105	107"	**3X351**
A106	108"	**3GWH2**
A110	112"	**6L201**
A112	114"	**3X352**
A115	117"	**3GWH3**
A120	122"	**3X371**
A128	130"	**3X633**
A133	135"	**3GWH4**
A136	138"	**6L202**
A144	146"	**6L203**
A152	154"	**45A157**
A158	160"	**6L204**
A173	175"	**6L205**
A180	182"	**6L206**
B (21/32" Top Width by 13/32" Thick)		
B25	28"	**3GWH5**
B26	29"	**3GWH6**
B27	30"	**3GWH7**
B28	31"	**6L207**
B29	32"	**6L208**
B30	33"	**1A103**
B31	34"	**6L209**
B32	35"	**6A153**
B33	36"	**1A099**
B34	37"	**6A154**
B35	38"	**3X634**
B36	39"	**6A155**
B37	40"	**6L210**
B38	41"	**3X635**
B39	42"	**6L211**
B40	43"	**3X698**
B41	44"	**6A156**
B42	45"	**3X636**
B43	46"	**1A107**
B44	47"	**6X571**
B45	48"	**1A094**
B46	49"	**3X637**
B47	50"	**1A106**
B48	51"	**3X474**
B49	52"	**1A097**
B50	53"	**3X475**
B51	54"	**3X638**
B52	55"	**6X874**
B53	56"	**3X611**
B54	57"	**6X875**
B55	58"	**3X612**
B56	59"	**6X876**
B57	60"	**3X706**
B58	61"	**6X998**
B59	62"	**1A108**
B60	63"	**3X639**
B61	64"	**1A104**
B62	65"	**3X613**
B63	66"	**3X703**
B64	67"	**3X614**
B65	68"	**6X999**
B66	69"	**3X640**
B67	70"	**6A157**
B68	71"	**3X641**
B69	72"	**1A102**
B70	73"	**5X475**
B71	74"	**3X642**
B72	75"	**3X615**
B73	76"	**3X705**
B74	77"	**6A158**
B75	78"	**3X643**
B76	79"	**6A159**
B77	80"	**6A160**
B78	81"	**3X644**
B79	82"	**6A161**
B80	83"	**5X476**
B81	84"	**3X645**
B82	85"	**1A101**
B83	86"	**3X646**
B84	87"	**6A162**
B85	88"	**3X647**
B86	89"	**6A163**
B87	90"	**6A164**
B88	91"	**3X701**
B89	92"	**6L212**
B90	93"	**3X648**
B91	94"	**6L213**
B92	95"	**6A165**
B93	96"	**5X477**
B94	97"	**6L214**

Industry No.	Outside L	Item No.
B (21/32" Top Width by 13/32" Thick) (Cont.)		
B95	98"	**5X478**
B96	99"	**5X479**
B97	100"	**3X649**
B98	101"	**6L215**
B99	102"	**6A166**
B100	103"	**5X480**
B101	104"	**6L216**
B102	105"	**3GWH8**
B103	106"	**5X481**
B104	107"	**3GWH9**
B105	108"	**3X650**
B106	109"	**13V798**
B107	110"	**3GXD8**
B108	111"	**5X482**
B110	113"	**3GXD9**
B111	114"	**6L217**
B112	115"	**3X353**
B114	117"	**3GWJ1**
B115	118"	**3GWJ2**
B116	119"	**6A167**
B117	120"	**3GWJ3**
B118	121"	**3GWJ4**
B120	123"	**3X354**
B122	125"	**3GWJ5**
B123	126"	**3GWJ6**
B124	127"	**6A168**
B126	129"	**3GWJ7**
B128	131"	**3X372**
B130	133"	**3GWJ8**
B131	134"	**3GWJ9**
B133	136"	**6A169**
B134	137"	**3GWK1**
B135	138"	**13V799**
B136	139"	**5X483**
B137	140"	**13V801**
B138	141"	**13V802**
B140	143"	**6L218**
B141	144"	**13V803**
B142	145"	**3GWK2**
B144	147"	**3X651**
B147	150"	**3GWK3**
B148	151"	**6L219**
B149	152"	**3GWK4**
B150	153"	**6L220**
B152	155"	**3GWK5**
B153	156"	**3GWK6**
B154	157"	**6L221**
B156	159"	**13V804**
B158	161"	**3X374**
B160	163"	**13V805**
B162	165"	**6A170**
B165	168"	**13V806**
B168	171"	**3GWK7**
B170	173"	**13V807**
B172	175"	**13V808**
B173	176"	**5X484**
B175	178"	**3GWK8**
B180	183"	**6A171**
B185	188"	**3GWK9**
B190	193"	**6L222**
B195	198"	**6A172**
B205	208"	**6L223**
B206	209"	**3GWL1**
B210	213"	**6L224**
B225	226"	**6L225**
B224	227"	**13V809**
B237	238"	**3GWL2**
B240	241"	**6L226**
B255	256"	**6L227**
B270	271"	**6L228**
B285	286"	**13V810**
B290	291"	**13V811**
B293	294"	**13V813**
B300	301"	**13V814**
B315	316"	**13V815**
B330	331"	**13V816**
B345	346"	**13V817**
B360	361"	**13V818**
B433	434"	**13V819**
C (7/8" Top Width by 17/32" Thick)		
C38	42"	**3GWL3**
C42	46"	**3GWL4**
C48	52"	**13V821**
C50	54"	**13V822**

Industry No.	Outside L	Item No.
C (7/8" Top Width by 17/32" Thick) (Cont.)		
C51	55"	**4FJ14**
C53	57"	**3GWL5**
C54	58"	**13V823**
C55	59"	**4FJ15**
C56	60"	**13V824**
C57	61"	**13V825**
C58	62"	**13V826**
C59	63"	**13V827**
C60	64"	**4FJ16**
C62	66"	**3GWL6**
C63	67"	**13V828**
C64	68"	**3GWL7**
C65	69"	**3GWL8**
C68	72"	**4FJ17**
C70	74"	**3GWL9**
C71	75"	**3GWN1**
C72	76"	**4FJ18**
C73	77"	**3GWN2**
C75	79"	**4FJ19**
C76	80"	**3GWN3**
C78	82"	**3GWN4**
C79	83"	**3GWN5**
C80	84"	**13V829**
C81	85"	**4FJ20**
C82	86"	**3GWN6**
C83	87"	**3GWN7**
C84	88"	**13V830**
C85	89"	**4FJ21**
C86	90"	**3GWN8**
C87	91"	**13V831**
C89	93"	**13V832**
C90	94"	**4FJ22**
C91	95"	**13V833**
C93	97"	**3GWN9**
C94	98"	**13V834**
C95	99"	**13V835**
C96	100"	**4FJ23**
C97	101"	**4FJ24**
C98	102"	**3GWP1**
C99	103"	**4FJ25**
C100	104"	**4FH83**
C101	105"	**13V836**
C103	107"	**3GWP2**
C104	108"	**3GWP3**
C105	109"	**4FH84**
C106	110"	**3GWP4**
C107	111"	**3GWP5**
C108	112"	**4FH85**
C109	113"	**4FH86**
C110	114"	**3GWP6**
C111	115"	**3GWP7**
C112	116"	**4FH87**
C115	119"	**4FH88**
C117	121"	**3GWP8**
C118	122"	**3GWP9**
C120	124"	**4FH89**
C122	126"	**13V837**
C124	128"	**4FH90**
C125	129"	**3GWR1**
C126	130"	**13V838**
C128	132"	**4FH91**
C130	134"	**3GWR2**
C131	135"	**3GWR3**
C132	136"	**3GWR4**
C135	139"	**3GWR5**
C136	140"	**4FH92**
C140	144"	**3GWR6**
C141	145"	**3GWR7**
C144	148"	**4FH93**
C147	151"	**3GWR8**
C148	152"	**3GWR9**
C150	154"	**4FH94**
C151	155"	**3GWT1**
C152	156"	**3GWT2**
C156	160"	**3GWT3**
C158	162"	**4FH95**
C160	164"	**13V839**
C162	166"	**4FH96**
C169	173"	**3GWT4**
C170	174"	**3GWT5**
C173	177"	**4FH97**
C175	179"	**3GWT6**
C177	181"	**3GWT7**
C180	184"	**4FH98**

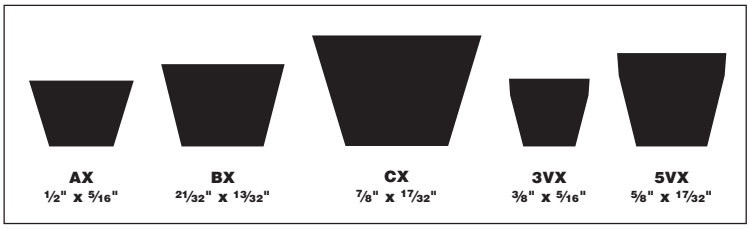
Industry No.	Outside L	Item No.
C (7/8" Top Width by 17/32" Thick) (Cont.)		
C185	189"	**3GWT8**
C190	194"	**3GWT9**
C195	199"	**4FH99**
C206	210"	**3GWU1**
C208	212"	**13V843**
C210	214"	**4FJ01**
C220	224"	**13V844**
C225	227"	**4FJ02**
C240	242"	**4FJ03**
C255	257"	**4FJ04**
C270	272"	**13V845**
C285	287"	**13V846**
C300	302"	**13V847**
C315	317"	**13V848**
C390	392"	**13V852**
C420	422"	**13W522**
3V Narrow (3/8" Top Width by 5/16" Thick)		
3V250	25"	**13V704**
3V265	26½"	**13V705**
3V280	28"	**13V706**
3V300	30"	**13V707**
3V315	31½"	**13V708**
3V335	33½"	**13V709**
3V355	35½"	**13V710**
3V375	37½"	**13V711**
3V400	40"	**13V712**
3V425	42½"	**13V713**
3V450	45"	**13V714**
3V475	47½"	**13V715**
3V500	50"	**13V716**
3V530	53"	**13V717**
3V560	56"	**13V718**
3V600	60"	**13V719**
3V630	63"	**13V720**
3V670	67"	**13V721**
3V710	71"	**13V722**
3V750	75"	**13V723**
3V800	80"	**13V724**
3V850	85"	**13V725**
3V900	90"	**13V726**
3V950	95"	**13V727**
3V1000	100"	**13V728**
3V1060	106"	**13V729**
3V1120	112"	**13V730**
3V1180	118"	**13V731**
3V1250	125"	**13V732**
3V1320	132"	**13V733**
3V1400	140"	**13V734**
5V Narrow (5/8" Top Width by 17/32" Thick)		
5V500	50"	**13V735**
5V530	53"	**13V736**
5V560	56"	**13V737**
5V600	60"	**13V738**
5V630	63"	**13V739**
5V670	67"	**13V740**
5V710	71"	**13V741**
5V750	75"	**13V742**
5V800	80"	**13V743**
5V850	85"	**13V744**
5V900	90"	**13V745**
5V950	95"	**13V746**
5V1000	100"	**13V747**
5V1060	106"	**13V748**
5V1120	112"	**13V749**
5V1180	118"	**13V750**
5V1250	125"	**13V751**
5V1320	132"	**13V752**
5V1400	140"	**13V753**
5V1500	150"	**13V754**
5V1600	160"	**13V755**
5V1700	170"	**13V756**
5V1800	180"	**13V757**
5V1900	190"	**13V758**
5V2000	200"	**13V759**
5V2120	212"	**13V760**
5V2240	224"	**13V761**
5V2360	236"	**13V762**
5V2500	250"	**13V763**
5V2650	265"	**13V764**
5V2800	280"	**13V765**
5V3000	300"	**13V766**
5V3350	335"	**13V768**

Find more information on V-Belts on page 97.

Dayton®

AX, BX, CX, 3VX, and 5VX Raw Edge Cogged V-Belts

For medium/high HP industrial applications that require single or multiple V-belt drives. Belts resist oil and heat, and are static conductive. Belts interchange with brands such as Browning®, Carlisle, ContiTech, Dayco®, Gates®, and Goodyear®. These Dayton V-belts are built to matching specifications, so all belts of the same size are within the tolerences set by the ARPM (Association of Rubber Products Manufacturers).



Industry No.	Outside L	Item No.
AX (½" Top Width by 5/16" Thick)		
AX19	21"	**3VU38**
AX20	22"	**3VU39**
AX21	23"	**3VU40**
AX22	24"	**3VU41**
AX23	25"	**3VU42**
AX24	26"	**3VU43**
AX25	27"	**3VU44**
AX26	28"	**6A115**
AX27	29"	**3GWU2**
AX28	30"	**6L233**
AX29	31"	**3GWU3**
AX30	32"	**3GWU4**
AX31	33"	**6A116**
AX32	34"	**1YVU7**
AX33	35"	**6A117**
AX34	36"	**6L234**
AX35	37"	**6A118**
AX36	38"	**6A119**
AX37	39"	**6L235**
AX38	40"	**6A120**
AX39	41"	**3GWU6**
AX40	42"	**1YVU8**
AX41	43"	**1YVU9**
AX42	44"	**6A121**
AX43	45"	**6L236**
AX44	46"	**3GWU9**
AX45	47"	**1YVX1**
AX46	48"	**6A122**
AX47	49"	**3GWX2**
AX48	50"	**6L237**
AX49	51"	**1YVX2**
AX50	52"	**3GWX4**
AX51	53"	**6L238**
AX52	54"	**3GWX5**
AX53	55"	**6L239**
AX54	56"	**6L240**
AX55	57"	**6L241**
AX56	58"	**6L242**
AX57	59"	**3GWX6**
AX58	60"	**3GWX7**
AX59	61"	**3GWX8**
AX60	62"	**6L243**
AX61	63"	**3GWX9**
AX62	64"	**6L244**
AX63	65"	**3GWY1**
AX64	66"	**6L245**
AX65	67"	**3GWY2**
AX66	68"	**6L246**
AX67	69"	**3GWY3**
AX68	70"	**6L247**
AX69	71"	**3GWY4**
AX70	72"	**6L248**
AX71	73"	**6L249**
AX72	74"	**3GWY5**
AX73	75"	**3GWY6**
AX75	77"	**6L250**
AX77	79"	**3GWY7**
AX78	80"	**6L251**
AX79	81"	**3GWY8**
AX80	82"	**6L252**
AX82	84"	**3GWY9**
AX83	85"	**3GWZ1**
AX85	87"	**6L253**
AX86	88"	**3GWZ2**
AX87	89"	**3GWZ3**
AX88	90"	**3GWZ4**
AX90	92"	**6L254**
AX92	94"	**6L255**
AX94	96"	**3GWZ5**
AX95	97"	**3GWZ6**
AX96	98"	**6L256**
AX98	100"	**3GWZ7**
AX100	102"	**13W525**

Industry No.	Outside L	Item No.
AX (½" Top Width by 5/16" Thick) (Cont.)		
AX105	107"	**6L257**
AX110	112"	**6L258**
AX112	114"	**6L259**
AX120	122"	**6L260**
AX128	130"	**6L261**
AX136	138"	**6L262**
AX144	146"	**6L263**
AX158	160"	**13W526**
AX173	175"	**13W527**
AX180	182"	**13W528**
BX (21/32" Top Width by 13/32" Thick)		
BX25	28"	**5TXL1**
BX27	30"	**5TXL2**
BX28	31"	**5TXL3**
BX29	32"	**5TXL4**
BX30	33"	**5TXL5**
BX31	34"	**5TXL6**
BX32	35"	**3GWZ8**
BX33	36"	**5TXL7**
BX34	37"	**3GWZ9**
BX35	38"	**6L267**
BX36	39"	**6A123**
BX37	40"	**3GXA1**
BX38	41"	**6A124**
BX39	42"	**3GXA2**
BX40	43"	**3GXA3**
BX41	44"	**3GXA4**
BX42	45"	**6A125**
BX43	46"	**3GXA5**
BX44	47"	**3GXA6**
BX45	48"	**5TXL8**
BX46	49"	**6A126**
BX47	50"	**13W529**
BX48	51"	**6A127**
BX49	52"	**13W530**
BX50	53"	**6L268**
BX51	54"	**6L269**
BX52	55"	**6L270**
BX53	56"	**6L271**
BX54	57"	**6L272**
BX55	58"	**6A128**
BX56	59"	**6A129**
BX57	60"	**6L273**
BX58	61"	**6L274**
BX59	62"	**6L275**
BX60	63"	**6A130**
BX61	64"	**6L276**
BX62	65"	**6L277**
BX63	66"	**6L278**
BX64	67"	**6L279**
BX65	68"	**6A131**
BX66	69"	**6L280**
BX67	70"	**6L281**
BX68	71"	**6A132**
BX70	73"	**6L282**
BX71	74"	**6A133**
BX72	75"	**3GXA7**
BX73	76"	**3GXA8**
BX74	77"	**3GXA9**
BX75	78"	**6A134**
BX76	79"	**3HFC9**
BX77	80"	**6L283**
BX78	81"	**6L284**
BX79	82"	**6L285**
BX80	83"	**6L286**
BX81	84"	**6L287**
BX82	85"	**6L288**
BX83	86"	**6L289**
BX84	87"	**3GXC1**
BX85	88"	**6A135**
BX86	89"	**3GXC2**
BX87	90"	**3GXC3**
BX88	91"	**13W531**
BX89	92"	**3GXC4**
BX90	93"	**6A136**
BX91	94"	**3HFD1**

Industry No.	Outside L	Item No.
BX (21/32" Top Width by 13/32" Thick) (Cont.)		
BX92	95"	**3GXC5**
BX93	96"	**6L290**
BX94	97"	**13W532**
BX95	98"	**6L291**
BX96	99"	**6L292**
BX97	100"	**6L293**
BX99	102"	**6L294**
BX100	103"	**6L295**
BX103	106"	**3VU45**
BX105	108"	**6L296**
BX106	109"	**3GXC6**
BX108	111"	**6L297**
BX112	115"	**6A137**
BX113	116"	**6L298**
BX115	118"	**6L299**
BX116	119"	**6L300**
BX120	123"	**6L301**
BX124	127"	**6L302**
BX126	129"	**3GXC7**
BX128	131"	**6L303**
BX133	136"	**6L304**
BX136	139"	**6L305**
BX144	147"	**6L306**
BX150	153"	**6L307**
BX158	161"	**6L308**
BX162	165"	**6L309**
BX173	176"	**6L310**
BX180	183"	**6L311**
BX195	198"	**6L312**
BX210	213"	**6L313**
BX225	226"	**3GXC8**
BX240	241"	**6L314**
CX (7/8" Top Width by 17/32" Thick)		
CX51	55"	**4FJ43**
CX55	59"	**13W533**
CX60	64"	**4FJ44**
CX68	72"	**4FJ45**
CX70	74"	**13W534**
CX75	79"	**4FJ46**
CX81	85"	**4FJ47**
CX85	89"	**4FJ48**
CX90	94"	**4FJ49**
CX96	100"	**4FJ50**
CX101	105"	**4FJ26**
CX105	109"	**4FJ27**
CX109	113"	**4FJ28**
CX111	115"	**3GXC9**
CX112	116"	**4FJ29**
CX115	119"	**3GXD1**
CX120	124"	**4FJ30**
CX123	127"	**3GXD2**
CX128	132"	**4FJ31**
CX133	137"	**3GXD3**
CX136	140"	**4FJ32**
CX144	148"	**4FJ33**
CX150	154"	**4FJ34**
CX158	162"	**4FJ35**
CX162	166"	**4FJ36**
CX173	177"	**4FJ37**
CX180	184"	**4FJ38**
CX195	199"	**4FJ39**
CX210	214"	**4FJ40**
CX225	227"	**3GXD6**
CX240	242"	**4FJ41**
3VX (3/8" Top Width by 5/16" Thick)		
3VX235	23½"	**13W535**
3VX250	25"	**2L377**
3VX265	26½"	**2L378**
3VX280	28"	**2L379**
3VX300	30"	**2L380**
3VX315	31½"	**2L381**
3VX335	33½"	**2L382**
3VX355	35½"	**2L383**
3VX360	36"	**13W536**
3VX375	37½"	**2L384**
3VX400	40"	**2L385**

Industry No.	Outside L	Item No.
3VX (3/8" Top Width by 5/16" Thick) (Cont.)		
3VX425	42½"	**2L386**
3VX450	45"	**2L387**
3VX475	47½"	**2L388**
3VX500	50"	**2L389**
3VX530	53"	**2L390**
3VX560	56"	**2L391**
3VX600	60"	**2L392**
3VX630	63"	**2L393**
3VX670	67"	**2L394**
3VX710	71"	**2L395**
3VX750	75"	**2L396**
3VX800	80"	**2L397**
3VX830	83"	**13W537**
3VX850	85"	**2L398**
3VX900	90"	**2L399**
3VX950	95"	**2L400**
3VX1000	100"	**2L401**
3VX1060	106"	**2L402**
3VX1120	112"	**2L403**
3VX1180	118"	**2L404**
3VX1250	125"	**2L405**
3VX1320	132"	**2L406**
3VX1400	140"	**2L407**
5VX (5/8" Top Width by 17/32" Thick)		
5VX450	45"	**2L408**
5VX470	47"	**2L409**
5VX490	49"	**2L410**
5VX500	50"	**2L411**
5VX510	51"	**2L412**
5VX530	53"	**2L413**
5VX540	54"	**2L414**
5VX550	55"	**2L415**
5VX560	56"	**2L416**
5VX570	57"	**2L417**
5VX580	58"	**2L418**
5VX590	59"	**2L419**
5VX600	60"	**2L420**
5VX610	61"	**2L421**
5VX630	63"	**2L422**
5VX650	65"	**2L423**
5VX660	66"	**2L424**
5VX670	67"	**2L425**
5VX680	68"	**2L426**
5VX690	69"	**2L427**
5VX710	71"	**2L428**
5VX730	73"	**2L429**
5VX740	74"	**2L430**
5VX750	75"	**2L431**
5VX780	78"	**2L432**
5VX800	80"	**2L433**
5VX810	81"	**2L434**
5VX830	83"	**2L435**
5VX840	84"	**2L436**
5VX850	85"	**2L437**
5VX860	86"	**2L438**
5VX880	88"	**2L439**
5VX900	90"	**2L440**
5VX930	93"	**2L441**
5VX950	95"	**2L442**
5VX960	96"	**2L443**
5VX1000	100"	**2L444**
5VX1030	103"	**2L445**
5VX1060	106"	**2L446**
5VX1080	108"	**2L447**
5VX1120	112"	**2L448**
5VX1150	115"	**2L449**
5VX1180	118"	**2L450**
5VX1230	123"	**2L451**
5VX1250	125"	**2L452**
5VX1320	132"	**2L453**
5VX1400	140"	**2L454**
5VX1500	150"	**2L455**
5VX1600	160"	**2L456**
5VX1700	170"	**2L457**
5VX1800	180"	**2L458**
5VX1900	190"	**2L459**
5VX2000	200"	**2L460**



No. 3HEY5

Banded V-Belts

Dayton

Top cover protects belt from oil and heat, and maintains dimensional stability. Durable transverse tensile cords create a permanent connection between individual belts. For use with multiple belt systems where shock loads, pulsation, or misalignment cause belts to whip, flip over, or jump off of the sheave. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). Additional banded V-belts are available on Grainger.com®.

Industry No.	Outside L	Item No.
B 2 Rib (1⅓" Top Width by ½" Thick)		
2/B46	49¾"	13G875
2/B48	51¾"	3HEX5
2/B50	53¾"	13G876
2/B51	54¾"	13G877
2/B52	55¾"	13G878
2/B53	56¾"	13G879
2/B54	57¾"	13G880
2/B55	58¾"	13G881
2/B56	59¾"	13G882
2/B57	60¾"	13G883
2/B58	61¾"	13G884
2/B59	62¾"	13G885
2/B60	63¾"	13G886
2/B61	64¾"	13G887
2/B62	65¾"	3HEZ2
2/B63	66¾"	13G888
2/B64	67¾"	13G889
2/B65	68¾"	13G890
2/B66	69¾"	13G891
2/B67	70¾"	13G892
2/B68	71¾"	13G893
2/B70	73¾"	3HFC4
2/B71	74¾"	13G894
2/B72	75¾"	3HEY9
2/B73	76¾"	3HFA7
2/B74	77¾"	3HFA3
2/B75	78¾"	13G895
2/B77	80¾"	13G896
2/B78	81¾"	13G897
2/B79	82¾"	3HEX7
2/B80	83¾"	3HEY3
2/B81	84¾"	13G898
2/B82	85¾"	13G899
2/B83	86¾"	3HEX6
2/B85	88¾"	3HEY1
2/B87	90¾"	13G901
2/B90	93¾"	3HEX9
2/B93	96¾"	13G902
2/B95	98¾"	3HEZ6
2/B96	99¾"	13G903
2/B97	100¾"	13G904
2/B99	102¾"	13G905
2/B100	103¾"	13G906
2/B103	106¾"	3HEX8
2/B105	108¾"	13G907
2/B108	111¾"	13G908
2/B112	115¾"	3HFC7
2/B116	119¾"	13G909
2/B120	123¾"	3HEY2
2/B124	127¾"	3HEZ4
2/B126	129¾"	13G910
2/B128	131¾"	3HEY7
2/B133	136¾"	3HEZ1
2/B136	139¾"	3HEY8
2/B144	147¾"	3HEZ3
2/B148	151¾"	13G911
2/B150	153¾"	3HEY6
2/B157	160¾"	13G912
2/B158	161¾"	13G913
2/B173	176¾"	13G915
2/B195	198¾"	13V462
2/B210	213¾"	13V463
2/B225	226¾"	13V464
2/B240	241¾"	13V465
B 3 Rib (2" Top Width by ½" Thick)		
3/B46	49¾"	13V466
3/B48	51¾"	13V467
3/B50	53¾"	13V468
3/B51	54¾"	13V469
3/B52	55¾"	13V470
3/B53	56¾"	13V471
3/B54	57¾"	13V472
3/B55	58¾"	13V473
3/B56	59¾"	13V474
3/B57	60¾"	13V475
3/B58	61¾"	13V476
3/B59	62¾"	13V477
3/B60	63¾"	3HFC1
3/B61	64¾"	13V478
3/B62	65¾"	13V479
3/B63	66¾"	13V480
3/B64	67¾"	3HFA8
3/B65	68¾"	13V481
3/B66	69¾"	13V482
3/B67	70¾"	13V483
3/B68	71¾"	13V484
3/B70	73¾"	3HEY5
3/B71	74¾"	13V485
3/B72	75¾"	13V486
3/B73	76¾"	13V487
3/B74	77¾"	13V488
3/B75	78¾"	3HEZ9
3/B77	80¾"	13V489
3/B78	81¾"	13V490
3/B79	82¾"	13V491
3/B80	83¾"	13V492
3/B81	84¾"	13V493
3/B82	85¾"	13V494
3/B83	86¾"	13V495
B 4 Rib (2⅔" Top Width by ½" Thick)		
4/B46	49¾"	13V523
4/B48	51¾"	13V524
4/B50	53¾"	13V525
4/B51	54¾"	13V526
4/B52	55¾"	13V527
4/B53	56¾"	13V528
4/B54	57¾"	13V529
4/B55	58¾"	3HEY4
4/B56	59¾"	13V530
4/B57	60¾"	13V531
4/B58	61¾"	13V532
4/B59	62¾"	13V533
4/B60	63¾"	13V534
4/B61	64¾"	13V535
4/B62	65¾"	3HFC5
4/B63	66¾"	13V536
4/B64	67¾"	13V537
4/B65	68¾"	13V538
4/B66	69¾"	13V539
4/B67	70¾"	13V540
4/B68	71¾"	13V541
4/B70	73¾"	13V542
4/B71	74¾"	13V543
4/B72	75¾"	13V544
4/B73	76¾"	13V545
4/B74	77¾"	13V546
4/B75	78¾"	13V547
4/B77	80¾"	13V548
4/B78	81¾"	13V549
4/B79	82¾"	13V550
4/B80	83¾"	13V551
4/B81	84¾"	13V552
4/B82	85¾"	13V553
4/B83	86¾"	13V554
4/B85	88¾"	13V555
4/B87	90¾"	13V556
4/B90	93¾"	3HFC3
4/B93	96¾"	13V557
4/B95	98¾"	13V558
4/B96	99¾"	13V559
4/B97	100¾"	13V560
4/B99	102¾"	13V561
4/B100	103¾"	3HFC8
4/B103	106¾"	13V562
4/B105	108¾"	3HFC2
4/B108	111¾"	13V563
4/B112	115¾"	13V564
4/B116	119¾"	13V565
4/B120	123¾"	13V566
4/B124	127¾"	13V567
4/B126	129¾"	13V568
4/B128	131¾"	3HEZ7
4/B133	136¾"	3HFA9
4/B136	139¾"	3HFA5
4/B144	147¾"	13V569
4/B148	151¾"	13V570
4/B150	153¾"	13V571
4/B157	160¾"	13V572
4/B158	161¾"	3HFA6
4/B162	165¾"	13V573
4/B173	176¾"	13V574
4/B180	183¾"	13V575
4/B195	198¾"	13V576
4/B210	213¾"	13V577
4/B225	226¾"	13V578
4/B240	241¾"	13V579
B 5 Rib (3⅓" Top Width by ½" Thick)		
5/B46	49¾"	13V580
5/B48	51¾"	13V581
5/B50	53¾"	13V582
5/B51	54¾"	13V583
5/B52	55¾"	13V584
5/B53	56¾"	13V585
5/B54	57¾"	13V586
5/B55	58¾"	13V587
5/B56	59¾"	13V588
5/B57	60¾"	13V589
5/B58	61¾"	13V590
5/B59	62¾"	13V591
5/B60	63¾"	13V592
5/B61	64¾"	13V593
5/B62	65¾"	13V594
5/B63	66¾"	13V595
5/B64	67¾"	13V596
5/B65	68¾"	13V597
5/B66	69¾"	13V598
5/B67	70¾"	13V599
5/B68	71¾"	13W269
5/B70	73¾"	13W270
5/B71	74¾"	13W271
5/B72	75¾"	13W272
5/B73	76¾"	13W273
5/B74	77¾"	13W274
5/B75	78¾"	13W275
5/B77	80¾"	13W276
5/B78	81¾"	13W277
5/B79	82¾"	13W278
5/B80	83¾"	13W279
5/B81	84¾"	13W280
5/B82	85¾"	13W281
5/B83	86¾"	13W282
5/B85	88¾"	13W283
5/B87	90¾"	13W284
5/B90	93¾"	13W285
5/B93	96¾"	13W286
5/B95	98¾"	13W287
5/B96	99¾"	13W288
5/B97	100¾"	13W289
5/B99	102¾"	13W290
5/B100	103¾"	13W291
5/B103	106¾"	13W292
5/B105	108¾"	13W293
5/B108	111¾"	13W294
5/B112	115¾"	13W295
5/B116	119¾"	13W296
5/B120	123¾"	13W297
5/B124	127¾"	13W298
5/B126	129¾"	13W299
5/B128	131¾"	13W301
5/B133	136¾"	13W302
5/B136	139¾"	13W303
5/B144	147¾"	13W304
5/B148	151¾"	13W305
5/B150	153¾"	13W306
5/B157	160¾"	13W307
5/B158	161¾"	13W308
5/B162	165¾"	13W309
5/B173	176¾"	13W310
5/B180	183¾"	13W311
5/B195	198¾"	13W312
5/B210	213¾"	13W313
5/B225	226¾"	13W314
5/B240	241¾"	13W315
B 6 Rib (4" Top Width by ½" Thick)		
6/B46	49¾"	13W316
6/B48	51¾"	13W317
6/B50	53¾"	13W318
6/B51	54¾"	13W319
6/B52	55¾"	13W320
6/B53	56¾"	13W321
6/B54	57¾"	13W322
6/B55	58¾"	13W323
6/B56	59¾"	13W324
6/B57	60¾"	13W325
6/B58	61¾"	13W326
6/B59	62¾"	13W327
6/B60	63¾"	13W328
6/B61	64¾"	13W329
6/B62	65¾"	13W330
6/B63	66¾"	13W331
6/B64	67¾"	13W332
6/B65	68¾"	13W333
6/B66	69¾"	13W334
6/B67	70¾"	13W335
6/B68	71¾"	13W336
6/B70	73¾"	13W337
6/B71	74¾"	13W338
6/B72	75¾"	13W339
6/B73	76¾"	13W340
6/B74	77¾"	13W341
6/B75	78¾"	13W342
6/B77	80¾"	13W343
6/B78	81¾"	13W344
6/B79	82¾"	13W345
6/B80	83¾"	13W346
6/B81	84¾"	13W347
6/B82	85¾"	13W348
B 6 Rib (4" Top Width by ½" Thick) (Cont.)		
6/B83	86¾"	13W349
6/B85	88¾"	13W350
6/B87	90¾"	13W351
6/B90	93¾"	13W352
6/B93	96¾"	13W353
6/B95	98¾"	13W354
6/B96	99¾"	13W355
6/B97	100¾"	13W356
6/B99	102¾"	13W357
6/B100	103¾"	13W358
6/B103	106¾"	13W359
6/B105	108¾"	13W360
6/B108	111¾"	13W361
6/B112	115¾"	13W362
6/B116	119¾"	13W363
6/B120	123¾"	13W364
6/B124	127¾"	13W365
6/B126	129¾"	13W366
6/B128	131¾"	13W367
6/B133	136¾"	13W368
6/B136	139¾"	13W369
6/B144	147¾"	13W370
6/B148	151¾"	13W371
6/B150	153¾"	13W372
6/B157	160¾"	13W373
6/B158	161¾"	13W374
6/B162	165¾"	13W375
6/B173	176¾"	13W376
6/B180	183¾"	13W377
6/B195	198¾"	13W378
6/B210	213¾"	13W379
6/B225	226¾"	13W380
6/B240	241¾"	13W381
C 2 Rib (1¾" Top Width by ⅝" Thick)		
2/C85	89⅞"	13W382
2/C90	94⅞"	13W383
2/C100	104⅞"	13W384
2/C105	109⅞"	13W385
2/C108	112⅞"	13W386
2/C109	113⅞"	13W387
2/C112	116⅞"	13W388
2/C120	124⅞"	13W389
2/C123	127⅞"	13W390
2/C124	128⅞"	13W391
2/C126	130⅞"	13W392
2/C128	132⅞"	13W393
2/C136	140⅞"	13W394
2/C144	148⅞"	13W395
2/C158	162⅞"	13W396
2/C162	166⅞"	13W397
2/C173	177⅞"	13W398
2/C180	184⅞"	13W399
2/C195	199⅞"	13W401
2/C210	214⅞"	13W402
2/C225	227⅞"	13W403
2/C230	232⅞"	13W404
2/C240	242⅞"	13W405
2/C255	257⅞"	13W406
2/C270	272⅞"	13W407
2/C285	287⅞"	13W408
2/C300	302⅞"	13W409
2/C315	317⅞"	13W410
2/C330	332⅞"	13W411
2/C345	347⅞"	13W412
2/C360	362⅞"	13W413
2/C375	377⅞"	13W414
2/C390	392⅞"	13W415
2/C420	422⅞"	13W416
C 3 Rib (2⅔" Top Width by ⅝" Thick)		
3/C85	89⅞"	13W417
3/C90	94⅞"	13W418
3/C100	104⅞"	13W419
3/C105	109⅞"	13W420
3/C108	112⅞"	13W421
3/C109	113⅞"	13W422
3/C112	116⅞"	13W423
3/C120	124⅞"	13W424
3/C123	127⅞"	13W425
3/C124	128⅞"	13W426
3/C126	130⅞"	13W427
3/C128	132⅞"	13W428
3/C136	140⅞"	13W429
3/C144	148⅞"	13W430
3/C158	162⅞"	13W431
3/C162	166⅞"	13W432
3/C173	177⅞"	13W433
3/C180	184⅞"	13W434
3/C195	199⅞"	13W435
3/C210	214⅞"	13W436
3/C225	227⅞"	13W437
3/C230	232⅞"	13W438
3/C240	242⅞"	13W439
3/C255	257⅞"	13W440
3/C270	272⅞"	13W441
3/C285	287⅞"	13W442
3/C300	302⅞"	13W443
3/C315	317⅞"	13W444

CONTINUED

CONTINUED

Banded V-Belts

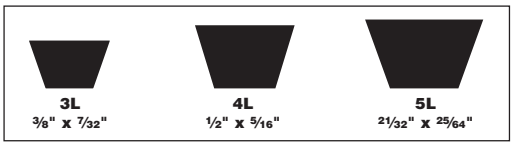
Dayton®

Industry No.	Outside L	Item No.
C 3 Rib (2⅔" Top Width by ⅝" Thick) (Cont.)		
3/C330	332⅛"	**13W445**
3/C345	347⅛"	**13W446**
3/C360	362⅛"	**13W447**
3/C375	377⅛"	**13W448**
3/C390	392⅛"	**13W449**
3/C420	422⅛"	**13W450**
C 4 Rib (3½" Top Width by ⅝" Thick)		
4/C85	89⅛"	**13W451**
4/C90	94⅛"	**13W452**
4/C100	104⅛"	**13W453**
4/C105	109⅛"	**13W454**
4/C108	112⅛"	**13W455**
4/C109	113⅛"	**13W456**
4/C112	116⅛"	**13W457**
4/C120	124⅛"	**13W458**
4/C123	127⅛"	**13W459**
4/C124	128⅛"	**13W460**
4/C126	130⅛"	**13W461**
4/C128	132⅛"	**13W462**
4/C136	140⅛"	**13W463**
4/C144	148⅛"	**13W464**
4/C158	162⅛"	**13W465**
4/C162	166⅛"	**13W466**
4/C173	177⅛"	**13W467**
4/C180	184⅛"	**13W468**
4/C195	199⅛"	**13W469**
4/C210	214⅛"	**13W470**
4/C225	227⅛"	**13W471**
4/C230	232⅛"	**13W472**
4/C240	242⅛"	**13W473**
4/C255	257⅛"	**13W474**
4/C270	272⅛"	**13W475**
4/C285	287⅛"	**13W476**
4/C300	302⅛"	**13W477**
4/C315	317⅛"	**13W478**
4/C330	332⅛"	**13W479**
4/C345	347⅛"	**13W480**
4/C360	362⅛"	**13W481**
4/C375	377⅛"	**13W482**
4/C390	392⅛"	**13W483**
4/C420	422⅛"	**13W484**
C 5 Rib (4⅖" Top Width by ⅝" Thick)		
5/C85	89⅛"	**13W485**
5/C90	94⅛"	**13W486**
5/C100	104⅛"	**13W487**
5/C105	109⅛"	**13W488**
5/C108	112⅛"	**13W489**
5/C109	113⅛"	**13W490**
5/C112	116⅛"	**13W491**
5/C120	124⅛"	**13W492**
5/C123	127⅛"	**13W493**
5/C124	128⅛"	**13W494**
5/C126	130⅛"	**13W495**
5/C128	132⅛"	**13W496**
5/C136	140⅛"	**13W497**
5/C144	148⅛"	**13W498**
5/C158	162⅛"	**13W499**
5/C162	166⅛"	**13W501**
5/C173	177⅛"	**13W502**
5/C180	184⅛"	**13W503**
5/C195	199⅛"	**13W504**
5/C210	214⅛"	**13W505**
5/C225	227⅛"	**13W506**
5/C230	232⅛"	**13W507**
5/C240	242⅛"	**13W508**
5/C255	257⅛"	**13W509**
5/C270	272⅛"	**13W510**
5/C285	287⅛"	**13W511**
5/C300	302⅛"	**13W512**
5/C315	317⅛"	**13W513**
5/C330	332⅛"	**13W514**
5/C345	347⅛"	**13W515**
5/C360	362⅛"	**13W516**
5/C375	377⅛"	**13W517**
5/C390	392⅛"	**13W518**
5/C420	422⅛"	**13W519**
C 6 Rib (5½" Top Width by ⅝" Thick)		
6/C85	89⅛"	**13W520**
6/C90	94⅛"	**13W521**
6/C100	104⅛"	**11X740**
6/C105	109⅛"	**11X741**
6/C108	112⅛"	**11X742**
6/C109	113⅛"	**11X743**
6/C112	116⅛"	**11X744**
6/C120	124⅛"	**11X745**
6/C123	127⅛"	**11X746**
6/C124	128⅛"	**11X747**
6/C126	130⅛"	**11X748**
6/C128	132⅛"	**11X749**
6/C136	140⅛"	**11X750**
6/C144	148⅛"	**11X751**
6/C158	162⅛"	**11X752**
6/C162	166⅛"	**11X753**
6/C173	177⅛"	**11X754**
6/C180	184⅛"	**11X755**
6/C195	199⅛"	**11X756**
6/C210	214⅛"	**11X757**
6/C225	227⅛"	**11X758**
6/C230	232⅛"	**11X759**
6/C240	242⅛"	**11X760**
6/C255	257⅛"	**11X761**
6/C270	272⅛"	**11X762**
6/C285	287⅛"	**11X763**

Industry No.	Outside L	Item No.
C 6 Rib (5½" Top Width by ⅝" Thick) (Cont.)		
6/C300	302⅛"	**11X764**
6/C315	317⅛"	**11X765**
6/C330	332⅛"	**11X766**
6/C345	347⅛"	**11X767**
6/C360	362⅛"	**11X768**
6/C375	377⅛"	**11X769**
6/C390	392⅛"	**11X770**
6/C420	422⅛"	**11X771**
3V 2 Rib (¾" Top Width by ⅜" Thick)		
2/3V400	40⅜"	**11X898**
2/3V425	43⅛"	**11X899**
2/3V450	45⅝"	**11X901**
2/3V475	48⅛"	**11X902**
2/3V500	50⅝"	**11X903**
2/3V530	53⅝"	**11X904**
2/3V560	56⅝"	**11X905**
2/3V600	60⅝"	**11X906**
2/3V630	63⅝"	**11X907**
2/3V670	67⅝"	**11X908**
2/3V710	71⅝"	**11X909**
2/3V750	75⅝"	**11X910**
2/3V800	80⅝"	**11X911**
2/3V850	85⅝"	**11X912**
2/3V900	90⅝"	**11X913**
2/3V950	95⅝"	**11X914**
2/3V1000	100⅝"	**11X915**
2/3V1060	106⅝"	**11X916**
2/3V1120	112⅝"	**11X917**
2/3V1180	118⅝"	**11X918**
2/3V1250	125⅝"	**11X919**
2/3V1320	132⅝"	**11X920**
2/3V1400	140⅝"	**11X921**
3V 3 Rib (1⅛" Top Width by ⅜" Thick)		
3/3V400	40⅜"	**11X922**
3/3V425	43⅛"	**11X923**
3/3V450	45⅝"	**11X924**
3/3V475	48⅛"	**11X925**
3/3V500	50⅝"	**11X926**
3/3V530	53⅝"	**11X927**
3/3V560	56⅝"	**11X928**
3/3V600	60⅝"	**11X929**
3/3V630	63⅝"	**11X930**
3/3V670	67⅝"	**11X931**
3/3V710	71⅝"	**11X932**
3/3V750	75⅝"	**11X933**
3/3V800	80⅝"	**11X934**
3/3V850	85⅝"	**11X935**
3/3V900	90⅝"	**11X936**
3/3V950	95⅝"	**11X937**
3/3V1000	100⅝"	**11X938**
3/3V1060	106⅝"	**11X939**
3/3V1120	112⅝"	**11X940**
3/3V1180	118⅝"	**11X941**
3/3V1250	125⅝"	**11X942**
3/3V1320	132⅝"	**11X943**
3/3V1400	140⅝"	**11X944**
3V 4 Rib (1½" Top Width by ⅜" Thick)		
4/3V400	40⅜"	**11X945**
4/3V425	43⅛"	**11X946**
4/3V450	45⅝"	**11X947**
4/3V475	48⅛"	**11X948**
4/3V500	50⅝"	**11X949**
4/3V530	53⅝"	**11X950**
4/3V560	56⅝"	**11X951**
4/3V600	60⅝"	**11X952**
4/3V630	63⅝"	**11X953**
4/3V670	67⅝"	**11X954**
4/3V710	71⅝"	**11X955**
4/3V750	75⅝"	**11X956**
4/3V800	80⅝"	**11X957**
4/3V850	85⅝"	**11X958**
4/3V900	90⅝"	**11X959**
4/3V950	95⅝"	**11X960**
4/3V1000	100⅝"	**11X961**
4/3V1060	106⅝"	**11X962**
4/3V1120	112⅝"	**11X963**
4/3V1180	118⅝"	**11X964**
4/3V1250	125⅝"	**11X965**
4/3V1320	132⅝"	**11X966**
4/3V1400	140⅝"	**11X967**
3V 5 Rib (1⅞" Top Width by ⅜" Thick)		
5/3V400	40⅜"	**11X968**
5/3V425	43⅛"	**11X969**
5/3V450	45⅝"	**11X970**
5/3V475	48⅛"	**11X971**
5/3V500	50⅝"	**11X972**
5/3V530	53⅝"	**11X973**
5/3V560	56⅝"	**11X974**
5/3V600	60⅝"	**11X975**
5/3V630	63⅝"	**11X976**
5/3V670	67⅝"	**11X977**
5/3V710	71⅝"	**11X978**
5/3V750	75⅝"	**11X979**
5/3V800	80⅝"	**11X980**
5/3V850	85⅝"	**11X981**
5/3V900	90⅝"	**11X982**
5/3V950	95⅝"	**11X983**
5/3V1000	100⅝"	**11X984**
5/3V1060	106⅝"	**11X985**
5/3V1120	112⅝"	**11X986**
5/3V1180	118⅝"	**11X987**
5/3V1250	125⅝"	**11X988**
5/3V1320	132⅝"	**11X989**

Industry No.	Outside L	Item No.
3V 5 Rib (1⅞" Top Width by ⅜" Thick) (Cont.)		
5/3V1400	140⅝"	**11X990**
3V 6 Rib (2¼" Top Width by ⅜" Thick)		
6/3V400	40⅜"	**11X991**
6/3V425	43⅛"	**13F881**
6/3V450	45⅝"	**13F882**
6/3V475	48⅛"	**13F883**
6/3V500	50⅝"	**13F884**
6/3V530	53⅝"	**13F885**
6/3V560	56⅝"	**13F886**
6/3V600	60⅝"	**13F887**
6/3V630	63⅝"	**13F888**
6/3V670	67⅝"	**13F889**
6/3V710	71⅝"	**13F890**
6/3V750	75⅝"	**13F891**
6/3V800	80⅝"	**13F892**
6/3V850	85⅝"	**13F893**
6/3V900	90⅝"	**13F894**
6/3V950	95⅝"	**13F895**
6/3V1000	100⅝"	**13F896**
6/3V1060	106⅝"	**13F897**
6/3V1120	112⅝"	**13F898**
6/3V1180	118⅝"	**13F899**
6/3V1250	125⅝"	**13F901**
6/3V1320	132⅝"	**13F902**
6/3V1400	140⅝"	**13F903**
5V 2 Rib (1¼" Top Width by ⅝" Thick)		
2/5V500	50¾"	**13F904**
2/5V530	53¾"	**13F905**
2/5V560	56¾"	**13F906**
2/5V600	60¾"	**13F907**
2/5V630	63¾"	**13F908**
2/5V670	67¾"	**13F909**
2/5V710	71¾"	**13F910**
2/5V750	75¾"	**13F911**
2/5V800	80¾"	**13F912**
2/5V850	85¾"	**13F913**
2/5V900	90¾"	**13F914**
2/5V950	95¾"	**13F915**
2/5V1000	100¾"	**13F916**
2/5V1060	106¾"	**13F917**
2/5V1120	112¾"	**13F918**
2/5V1180	118¾"	**13F919**
2/5V1250	125¾"	**13F920**
2/5V1320	132¾"	**13F921**
2/5V1400	140¾"	**13F922**
2/5V1500	150¾"	**13F923**
2/5V1600	160¾"	**13F924**
2/5V1700	170¾"	**13F925**
2/5V1800	180¾"	**13F926**
2/5V1900	190¾"	**13F927**
2/5V2000	200¾"	**13F928**
2/5V2120	212¾"	**13F929**
2/5V2240	224¾"	**13F930**
2/5V2360	236¾"	**13F931**
2/5V2500	250¾"	**13F932**
2/5V2650	265¾"	**13F933**
2/5V2800	280¾"	**13F934**
2/5V3000	300¾"	**13F935**
2/5V3150	315¾"	**13F936**
2/5V3350	335¾"	**13F937**
2/5V3550	355¾"	**13F938**
5V 3 Rib (1⅞" Top Width by ⅝" Thick)		
3/5V500	50¾"	**13F939**
3/5V530	53¾"	**13F940**
3/5V560	56¾"	**13F941**
3/5V600	60¾"	**13F942**
3/5V630	63¾"	**13F943**
3/5V670	67¾"	**13F944**
3/5V710	71¾"	**13F945**
3/5V750	75¾"	**13F946**
3/5V800	80¾"	**13F947**
3/5V850	85¾"	**13F948**
3/5V900	90¾"	**13F949**
3/5V950	95¾"	**13F950**
3/5V1000	100¾"	**13F951**
3/5V1060	106¾"	**13F952**
3/5V1120	112¾"	**13F953**
3/5V1180	118¾"	**13F954**
3/5V1250	125¾"	**13F955**
3/5V1320	132¾"	**13F956**
3/5V1400	140¾"	**13F957**
3/5V1500	150¾"	**13F958**
3/5V1600	160¾"	**13F959**
3/5V1700	170¾"	**13F960**
3/5V1800	180¾"	**13F961**
3/5V1900	190¾"	**13F962**
3/5V2000	200¾"	**13F963**
3/5V2120	212¾"	**13F964**
3/5V2240	224¾"	**13F965**
3/5V2360	236¾"	**13F966**
3/5V2500	250¾"	**13F967**
3/5V2650	265¾"	**13F968**
3/5V2800	280¾"	**13F969**
3/5V3000	300¾"	**13F970**
3/5V3150	315¾"	**13F971**
3/5V3350	335¾"	**13F972**
3/5V3550	355¾"	**13F973**
5V 4 Rib (2½" Top Width by ⅝" Thick)		
4/5V500	50¾"	**13F974**
4/5V530	53¾"	**13F975**
4/5V560	56¾"	**13F976**
4/5V600	60¾"	**13F977**
4/5V630	63¾"	**13F978**

Industry No.	Outside L	Item No.
5V 4 Rib (2½" Top Width by ⅝" Thick) (Cont.)		
4/5V670	67¾"	**13F979**
4/5V710	71¾"	**13F980**
4/5V750	75¾"	**13F981**
4/5V800	80¾"	**13F982**
4/5V850	85¾"	**13F983**
4/5V900	90¾"	**13F984**
4/5V950	95¾"	**13F985**
4/5V1000	100¾"	**13F986**
4/5V1060	106¾"	**13F987**
4/5V1120	112¾"	**13F988**
4/5V1180	118¾"	**13F989**
4/5V1250	125¾"	**13F990**
4/5V1320	132¾"	**13F991**
4/5V1400	140¾"	**13F992**
4/5V1500	150¾"	**13F993**
4/5V1600	160¾"	**13F994**
4/5V1700	170¾"	**13F995**
4/5V1800	180¾"	**13F996**
4/5V1900	190¾"	**13F997**
4/5V2000	200¾"	**13F998**
4/5V2120	212¾"	**13F999**
4/5V2240	224¾"	**13G001**
4/5V2360	236¾"	**13G002**
4/5V2500	250¾"	**13G003**
4/5V2650	265¾"	**13G004**
4/5V2800	280¾"	**13G005**
4/5V3000	300¾"	**13G006**
4/5V3150	315¾"	**13G007**
4/5V3350	335¾"	**13G008**
4/5V3550	355¾"	**13G009**
5V 5 Rib (3⅛" Top Width by ⅝" Thick)		
5/5V500	50¾"	**13G010**
5/5V530	53¾"	**13G011**
5/5V560	56¾"	**13G012**
5/5V600	60¾"	**13G013**
5/5V630	63¾"	**13G014**
5/5V670	67¾"	**13G015**
5/5V710	71¾"	**13G016**
5/5V750	75¾"	**13G017**
5/5V800	80¾"	**13G018**
5/5V850	85¾"	**13G019**
5/5V900	90¾"	**13G020**
5/5V950	95¾"	**13G021**
5/5V1000	100¾"	**13G022**
5/5V1060	106¾"	**13G023**
5/5V1120	112¾"	**13G024**
5/5V1180	118¾"	**13G025**
5/5V1250	125¾"	**13G026**
5/5V1320	132¾"	**13G027**
5/5V1400	140¾"	**13G028**
5/5V1500	150¾"	**13G029**
5/5V1600	160¾"	**13G030**
5/5V1700	170¾"	**13G031**
5/5V1800	180¾"	**13G032**
5/5V1900	190¾"	**13G033**
5/5V2000	200¾"	**13G034**
5/5V2120	212¾"	**13G035**
5/5V2240	224¾"	**13G036**
5/5V2360	236¾"	**13G037**
5/5V2500	250¾"	**13G038**
5/5V2650	265¾"	**13G039**
5/5V2800	280¾"	**13G040**
5/5V3000	300¾"	**13G041**
5/5V3150	315¾"	**13G042**
5/5V3350	335¾"	**13G043**
5/5V3550	355¾"	**13G044**
5V 6 Rib (3¾" Top Width by ⅝" Thick)		
6/5V500	50¾"	**13G045**
6/5V530	53¾"	**13G046**
6/5V560	56¾"	**13G047**
6/5V600	60¾"	**13G048**
6/5V630	63¾"	**13G049**
6/5V670	67¾"	**13G050**
6/5V710	71¾"	**13G051**
6/5V750	75¾"	**13G052**
6/5V800	80¾"	**13G053**
6/5V850	85¾"	**13G054**
6/5V900	90¾"	**13G055**
6/5V950	95¾"	**13G056**
6/5V1000	100¾"	**13G057**
6/5V1060	106¾"	**13G058**
6/5V1120	112¾"	**13G059**
6/5V1180	118¾"	**13G060**
6/5V1250	125¾"	**13G061**
6/5V1320	132¾"	**13G062**
6/5V1400	140¾"	**13G063**
6/5V1500	150¾"	**13G064**
6/5V1600	160¾"	**13G065**
6/5V1700	170¾"	**13G066**
6/5V1800	180¾"	**13G067**
6/5V1900	190¾"	**13G068**
6/5V2000	200¾"	**13G069**
6/5V2120	212¾"	**13G070**
6/5V2240	224¾"	**13G071**
6/5V2360	236¾"	**13G072**
6/5V2500	250¾"	**13G073**
6/5V2650	265¾"	**13G074**
6/5V2800	280¾"	**13G075**
6/5V3000	300¾"	**13G076**
6/5V3150	315¾"	**13G077**
6/5V3350	335¾"	**13G078**
6/5V3550	355¾"	**13G079**

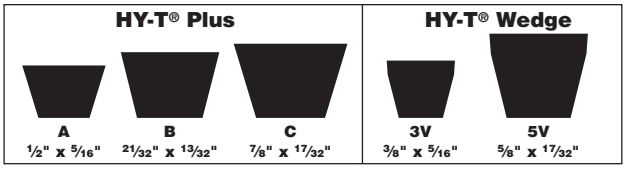


3L, 4L, and 5L Fractional Horsepower V-Belts

Continental ContiTech

Static conductive, plus heat-, ozone-, and abrasion-resistant. 4L and 5L belts are cogged. All are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com®.

Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.
3L (3/8" Top Width by 7/32" Thick)			**3L (3/8" Top Width by 7/32" Thick) (Cont.)**			**4L (1/2" Top Width by 5/16" Thick) (Cont.)**			**4L (1/2" Top Width by 5/16" Thick) (Cont.)**			**5L (21/32" Top Width by 25/64" Thick) (Cont.)**		
3L150	15"	**459H76**	3L440	44"	**459J06**	4L290	29"	**459J51**	4L580	58"	**459J80**	5L340	34"	**459K09**
3L160	16"	**459H77**	3L450	45"	**459J07**	4L300	30"	**459J52**	4L590	59"	**459J81**	5L350	35"	**459K10**
3L170	17"	**459H78**	3L460	46"	**459J08**	4L310	31"	**459J53**	4L600	60"	**459J82**	5L360	36"	**459K11**
3L180	18"	**459H79**	3L470	47"	**459J09**	4L320	32"	**459J54**	4L610	61"	**459J83**	5L370	37"	**459K12**
3L190	19"	**459H80**	3L480	48"	**459J10**	4L330	33"	**459J55**	4L620	62"	**459J84**	5L380	38"	**459K13**
3L200	20"	**459H81**	3L490	49"	**459J11**	4L340	34"	**459J56**	4L630	63"	**459J85**	5L390	39"	**459K14**
3L210	21"	**459H82**	3L500	50"	**459J12**	4L350	35"	**459J57**	4L640	64"	**459J86**	5L400	40"	**459K15**
3L220	22"	**459H83**	3L510	51"	**459J13**	4L360	36"	**459J58**	4L650	65"	**459J87**	5L410	41"	**459K16**
3L230	23"	**459H84**	3L520	52"	**459J14**	4L370	37"	**459J59**	4L660	66"	**459J88**	5L420	42"	**459K17**
3L240	24"	**459H85**	3L530	53"	**459J15**	4L380	38"	**459J60**	4L670	67"	**459J89**	5L430	43"	**459K18**
3L250	25"	**459H86**	3L550	55"	**459J16**	4L390	39"	**459J61**	4L680	68"	**459J90**	5L440	44"	**459K19**
3L260	26"	**459H87**	3L560	56"	**459J17**	4L400	40"	**459J62**	4L690	69"	**459J91**	5L450	45"	**459K20**
3L270	27"	**459H88**	3L590	59"	**459J18**	4L410	41"	**459J63**	4L730	73"	**459J92**	5L460	46"	**459K21**
3L280	28"	**459H89**	3L600	60"	**459J19**	4L420	42"	**459J64**	4L780	78"	**459J93**	5L470	47"	**459K22**
3L290	29"	**459H90**	3L610	61"	**459J20**	4L430	43"	**459J65**	4L790	79"	**459J94**	5L480	48"	**459K23**
3L300	30"	**459H91**	**4L (1/2" Top Width by 5/16" Thick)**			4L440	44"	**459J66**	4L800	80"	**459J95**	5L490	49"	**459K24**
3L310	31"	**459H92**	4L160	16"	**459J38**	4L450	45"	**459J67**	4L820	82"	**459J96**	5L500	50"	**459K25**
3L320	32"	**459H93**	4L170	17"	**459J39**	4L460	46"	**459J68**	4L880	88"	**459J97**	5L510	51"	**459K26**
3L330	33"	**459H94**	4L180	18"	**459J40**	4L470	47"	**459J69**	4L920	92"	**459J98**	5L520	52"	**459K27**
3L340	34"	**459H95**	4L190	19"	**459J41**	4L480	48"	**459J70**	4L980	98"	**459J99**	5L530	53"	**459K28**
3L350	35"	**459H96**	4L200	20"	**459J42**	4L490	49"	**459J71**	**5L (21/32" Top Width by 25/64" Thick)**			5L540	54"	**459K29**
3L360	36"	**459H97**	4L210	21"	**459J43**	4L500	50"	**459J72**	5L260	26"	**459K01**	5L550	55"	**459K30**
3L370	37"	**459H98**	4L220	22"	**459J44**	4L510	51"	**459J73**	5L270	27"	**459K02**	5L560	56"	**459K31**
3L380	38"	**459H99**	4L230	23"	**459J45**	4L520	52"	**459J74**	5L280	28"	**459K03**	5L570	57"	**459K32**
3L390	39"	**459J01**	4L240	24"	**459J46**	4L530	53"	**459J75**	5L290	29"	**459K04**	5L580	58"	**459K33**
3L400	40"	**459J02**	4L250	25"	**459J47**	4L540	54"	**459J76**	5L300	30"	**459K05**	5L590	59"	**459K34**
3L410	41"	**459J03**	4L260	26"	**459J48**	4L550	55"	**459J77**	5L310	31"	**459K06**	5L600	60"	**459K35**
3L420	42"	**459J04**	4L270	27"	**459J49**	4L560	56"	**459J78**	5L320	32"	**459K07**	5L650	65"	**459K36**
3L430	43"	**459J05**	4L280	28"	**459J50**	4L570	57"	**459J79**	5L330	33"	**459K08**	5L820	82"	**459K37**

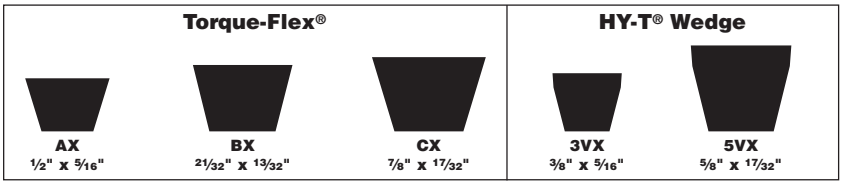


A, B, C, 3V, and 5V V-Belts

Continental ContiTech

HY-T® Plus and HY-T® Wedge wrapped belts are engineered with high-grade rubber for static conductivity and resistance to heat, ozone, oil, and abrasion. Built to Matchmaker® specifications so all belts of the same size are within the matching tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com®.

Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.
A (1/2" Top Width by 5/16" Thick)			**A (1/2" Top Width by 5/16" Thick) (Cont.)**			**B (21/32" Top Width by 13/32" Thick) (Cont.)**			**B (21/32" Top Width by 13/32" Thick) (Cont.)**			**C (7/8" Top Width by 17/32" Thick) (Cont.)**		
A19	21"	**459K62**	A71	73"	**459L15**	B38	41"	**459L94**	B89	92"	**459M46**	C75	79"	**459M76**
A20	22"	**459K63**	A72	74"	**459L16**	B39	42"	**459L95**	B90	93"	**459M47**	C81	85"	**459M77**
A21	23"	**459K64**	A73	75"	**459L17**	B40	43"	**459L96**	B91	94"	**459M48**	C85	89"	**459M78**
A22	24"	**459K65**	A74	76"	**459L18**	B41	44"	**459L97**	B92	95"	**459M49**	C90	94"	**459M79**
A23	25"	**459K66**	A75	77"	**459L19**	B42	45"	**459L98**	B93	96"	**459M50**	C96	100"	**459M80**
A24	26"	**459K67**	A76	78"	**459L20**	B43	46"	**459L99**	B94	97"	**459M51**	C105	109"	**459M60**
A25	27"	**459K68**	A77	79"	**459L21**	B44	47"	**459M01**	B95	98"	**459M52**	C109	113"	**459M61**
A26	28"	**459K69**	A78	80"	**459L22**	B45	48"	**459M02**	B96	99"	**459M53**	C112	116"	**459M62**
A27	29"	**459K70**	A79	81"	**459L23**	B46	49"	**459M03**	B97	100"	**459M54**	C115	119"	**459M63**
A28	30"	**459K71**	A80	82"	**459L24**	B47	50"	**459M04**	B98	101"	**459M55**	C120	124"	**459M64**
A29	31"	**459K72**	A81	83"	**459L25**	B48	51"	**459M05**	B99	102"	**459M56**	C128	132"	**459M65**
A30	32"	**459K73**	A82	84"	**459L26**	B49	52"	**459M06**	B100	103"	**459L43**	C136	140"	**459M66**
A31	33"	**459K74**	A83	85"	**459L27**	B50	53"	**459M07**	B101	104"	**459L44**	C144	148"	**459M67**
A32	34"	**459K75**	A84	86"	**459L28**	B51	54"	**459M08**	B102	105"	**459L45**	C150	154"	**459M68**
A33	35"	**459K76**	A85	87"	**459L29**	B52	55"	**459M09**	B103	106"	**459L46**	C158	162"	**459M69**
A34	36"	**459K77**	A86	88"	**459L30**	B53	56"	**459M10**	B104	107"	**459L47**	C162	166"	**459M70**
A35	37"	**459K78**	A87	89"	**459L31**	B54	57"	**459M11**	B105	108"	**459L48**	C173	177"	**459M71**
A36	38"	**459K79**	A88	90"	**459L32**	B55	58"	**459M12**	B106	109"	**459L49**	C180	184"	**459M72**
A37	39"	**459K80**	A89	91"	**459L33**	B56	59"	**459M13**	B108	111"	**459L50**	C195	199"	**459M73**
A38	40"	**459K81**	A90	92"	**459L34**	B57	60"	**459M14**	B110	113"	**459L51**	C210	214"	**459M74**
A39	41"	**459K82**	A91	93"	**459L35**	B58	61"	**459M15**	B111	114"	**459L52**	**3V (3/8" Top Width by 5/16" Thick)**		
A40	42"	**459K83**	A92	94"	**459L36**	B59	62"	**459M16**	B112	115"	**459L53**	3V315	31½"	**459J21**
A41	43"	**459K84**	A93	95"	**459L37**	B60	63"	**459M17**	B114	117"	**459L54**	3V335	33½"	**459J22**
A42	44"	**459K85**	A94	96"	**459L38**	B61	64"	**459M18**	B115	118"	**459L55**	3V355	35½"	**459J23**
A43	45"	**459K86**	A95	97"	**459L39**	B62	65"	**459M19**	B116	119"	**459L56**	3V375	37½"	**459J24**
A44	46"	**459K87**	A96	98"	**459L40**	B63	66"	**459M20**	B118	121"	**459L57**	3V400	40"	**459J25**
A45	47"	**459K88**	A97	99"	**459L41**	B64	67"	**459M21**	B120	123"	**459L58**	3V425	42½"	**459J26**
A46	48"	**459K89**	A98	100"	**459L42**	B65	68"	**459M22**	B123	126"	**459L59**	3V475	47½"	**459J27**
A47	49"	**459K90**	A100	102"	**459K52**	B66	69"	**459M23**	B124	127"	**459L60**	3V500	50"	**459J28**
A48	50"	**459K91**	A102	104"	**459K53**	B67	70"	**459M24**	B126	129"	**459L61**	3V530	53"	**459J29**
A49	51"	**459K92**	A103	105"	**459K54**	B68	71"	**459M25**	B128	131"	**459L62**	3V560	56"	**459J30**
A50	52"	**459K93**	A105	107"	**459K55**	B69	72"	**459M26**	B130	133"	**459L63**	3V600	60"	**459J31**
A51	53"	**459K94**	A110	112"	**459K56**	B70	73"	**459M27**	B133	136"	**459L64**	3V630	63"	**459J32**
A52	54"	**459K95**	A112	114"	**459K57**	B71	74"	**459M28**	B135	138"	**459L65**	3V670	67"	**459J33**
A53	55"	**459K96**	A120	122"	**459K58**	B72	75"	**459M29**	B136	139"	**459L66**	3V710	71"	**459J34**
A54	56"	**459K97**	A128	130"	**459K59**	B73	76"	**459M30**	B140	143"	**459L67**	3V750	75"	**459J35**
A55	57"	**459K98**	A136	138"	**459K60**	B74	77"	**459M31**	B142	145"	**459L68**	3V800	80"	**459J36**
A56	58"	**459K99**	A144	146"	**459K61**	B75	78"	**459M32**	B144	147"	**459L69**	3V900	90"	**459J37**
A57	59"	**459L01**	**B (21/32" Top Width by 13/32" Thick)**			B76	79"	**459M33**	B148	151"	**459L70**	**5V (5/8" Top Width by 17/32" Thick)**		
A58	60"	**459L02**	B25	28"	**459L81**	B77	80"	**459M34**	B150	153"	**459L71**	5V710	71"	**459K47**
A59	61"	**459L03**	B26	29"	**459L82**	B78	81"	**459M35**	B154	157"	**459L72**	5V750	75"	**459K48**
A60	62"	**459L04**	B27	30"	**459L83**	B79	82"	**459M36**	B158	161"	**459L73**	5V850	85"	**459K49**
A61	63"	**459L05**	B28	31"	**459L84**	B80	83"	**459M37**	B162	165"	**459L74**	5V900	90"	**459K50**
A62	64"	**459L06**	B29	32"	**459L85**	B81	84"	**459M38**	B173	176"	**459L75**	5V950	95"	**459K51**
A63	65"	**459L07**	B30	33"	**459L86**	B82	85"	**459M39**	B180	183"	**459L76**	5V1000	100"	**459K38**
A64	66"	**459L08**	B31	34"	**459L87**	B83	86"	**459M40**	B190	193"	**459L77**	5V1060	106"	**459K39**
A65	67"	**459L09**	B32	35"	**459L88**	B84	87"	**459M41**	B195	198"	**459L78**	5V1120	112"	**459K40**
A66	68"	**459L10**	B33	36"	**459L89**	B85	88"	**459M42**	B210	213"	**459L79**	5V1250	125"	**459K41**
A67	69"	**459L11**	B34	37"	**459L90**	B86	89"	**459M43**	B240	243"	**459L80**	5V1320	132"	**459K42**
A68	70"	**459L12**	B35	38"	**459L91**	B87	90"	**459M44**	**C (7/8" Top Width by 17/32" Thick)**			5V1400	140"	**459K43**
A69	71"	**459L13**	B36	39"	**459L92**	B88	91"	**459M45**	C60	64"	**459M75**	5V1500	150"	**459K44**
A70	72"	**459L14**	B37	40"	**459L93**							5V1700	170"	**459K45**
												5V2120	212"	**459K46**



Continental
ContiTech

AX, BX, CX, 3VX, and 5VX Raw Edge Cogged V-Belts

Torque-Flex® and HY-T® Wedge belts are fully cogged to provide the flexibility needed to keep their high-traction rubber edges in contact with the sheave grooves, helping you achieve the horsepower you need at a lower total drive cost. Produced with highly engineered oil- and heat-resistant and static-conductive EPDM, providing a broader temperature range than ever before (-40° to 230°F). Built to Matchmaker® specifications so all belts of the same size are within the matching tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com®.

Industry No.	Outside L	Item No.
AX (½" Top Width by 5/16" Thick)		
AX20	22"	459N66
AX21	23"	459N67
AX22	24"	459N68
AX23	25"	459N69
AX24	26"	459N70
AX25	27"	459N71
AX26	28"	459N72
AX27	29"	459N73
AX28	30"	459N74
AX29	31"	459N75
AX30	32"	459N76
AX31	33"	459N77
AX32	34"	459N78
AX33	35"	459N79
AX34	36"	459N80
AX35	37"	459N81
AX36	38"	459N82
AX37	39"	459N83
AX38	40"	459N84
AX39	41"	459N85
AX40	42"	459N86
AX41	43"	459N87
AX42	44"	459N88
AX43	45"	459N89
AX44	46"	459N90
AX45	47"	459N91
AX46	48"	459N92
AX47	49"	459N93
AX48	50"	459N94
AX49	51"	459N95
AX50	52"	459N96
AX51	53"	459N97
AX52	54"	459N98
AX53	55"	459N99
AX54	56"	459P01
AX55	57"	459P02
AX56	58"	459P03
AX57	59"	459P04
AX58	60"	459P05
AX59	61"	459P06
AX60	62"	459P07
AX61	63"	459P08
AX62	64"	459P09
AX63	65"	459P10
AX64	66"	459P11
AX65	67"	459P12
AX66	68"	459P13
AX67	69"	459P14
AX68	70"	459P15
AX69	71"	459P16
AX70	72"	459P17
AX71	73"	459P18
AX72	74"	459P19
AX73	75"	459P20
AX75	77"	459P21
AX77	79"	459P22
AX78	80"	459P23
AX79	81"	459P24
AX80	82"	459P25
AX82	84"	459P26
AX83	85"	459P27
AX85	87"	459P28
AX86	88"	459P29
AX87	89"	459P30
AX88	90"	459P31
AX90	92"	459P32
AX95	97"	459P33
AX96	98"	459P34
AX105	107"	459N64
AX120	122"	459N65
BX (21/32" Top Width by 13/32" Thick)		
BX27	30"	459P57
BX28	31"	459P58
BX29	32"	459P59
BX30	33"	459P60

Industry No.	Outside L	Item No.
BX (21/32" Top Width by 13/32" Thick) (Cont.)		
BX31	34"	459P61
BX32	35"	459P62
BX33	36"	459P63
BX34	37"	459P64
BX35	38"	459P65
BX36	39"	459P66
BX37	40"	459P67
BX38	41"	459P68
BX39	42"	459P69
BX40	43"	459P70
BX41	44"	459P71
BX42	45"	459P72
BX43	46"	459P73
BX44	47"	459P74
BX45	48"	459P75
BX46	49"	459P76
BX47	50"	459P77
BX48	51"	459P78
BX49	52"	459P79
BX50	53"	459P80
BX51	54"	459P81
BX52	55"	459P82
BX53	56"	459P83
BX54	57"	459P84
BX55	58"	459P85
BX56	59"	459P86
BX57	60"	459P87
BX58	61"	459P88
BX59	62"	459P89
BX60	63"	459P90
BX61	64"	459P91
BX62	65"	459P92
BX63	66"	459P93
BX64	67"	459P94
BX65	68"	459P95
BX66	69"	459P96
BX67	70"	459P97
BX68	71"	459P98
BX70	73"	459P99
BX71	74"	459R01
BX72	75"	459R02
BX73	76"	459R03
BX74	77"	459R04
BX75	78"	459R05
BX76	79"	459R06
BX77	80"	459R07
BX78	81"	459R08
BX79	82"	459R09
BX80	83"	459R10
BX81	84"	459R11
BX82	85"	459R12
BX83	86"	459R13
BX84	87"	459R14
BX85	88"	459R15
BX86	89"	459R16
BX87	90"	459R17
BX88	91"	459R18
BX89	92"	459R19
BX90	93"	459R20
BX91	94"	459R21
BX92	95"	459R22
BX93	96"	459R23
BX94	97"	459R24
BX95	98"	459R25
BX96	99"	459R26
BX97	100"	459R27
BX99	102"	459R28
BX100	103"	459P35
BX103	106"	459P36
BX105	108"	459P37
BX106	109"	459P38
BX108	111"	459P39
BX112	115"	459P40
BX113	116"	459P41
BX115	118"	459P42
BX116	119"	459P43

Industry No.	Outside L	Item No.
BX (21/32" Top Width by 13/32" Thick) (Cont.)		
BX120	123"	459P44
BX124	127"	459P45
BX126	129"	459P46
BX128	131"	459P47
BX133	136"	459P48
BX136	139"	459P49
BX144	147"	459P50
BX150	153"	459P51
BX158	161"	459P52
BX162	165"	459P53
BX173	176"	459P54
BX180	183"	459P55
BX195	198"	459P56
CX (7/8" Top Width by 17/32" Thick)		
CX90	94"	459R35
CX105	109"	459R29
CX112	116"	459R30
CX120	124"	459R31
CX128	132"	459R32
CX136	140"	459R33
CX144	148"	459R34
3VX (3/8" Top Width by 5/16" Thick)		
3VX250	25"	459M86
3VX265	26½"	459M87
3VX280	28"	459M88
3VX300	30"	459M89
3VX315	31½"	459M90
3VX335	33½"	459M91
3VX355	35½"	459M92
3VX375	37½"	459M93
3VX400	40"	459M94
3VX425	42½"	459M95
3VX450	45"	459M96
3VX475	47½"	459M97
3VX500	50"	459M98
3VX530	53"	459M99
3VX560	56"	459N01
3VX600	60"	459N02
3VX630	63"	459N03
3VX670	67"	459N04
3VX710	71"	459N05
3VX750	75"	459N06
3VX800	80"	459N07
3VX850	85"	459N08
3VX900	90"	459N09
3VX950	95"	459N10
3VX1000	100"	459M81
3VX1060	106"	459M82
3VX1120	112"	459M83
3VX1180	118"	459M84
3VX1250	125"	459M85
5VX (5/8" Top Width by 17/32" Thick)		
5VX450	45"	459N28
5VX470	47"	459N29

Industry No.	Outside L	Item No.
5VX (5/8" Top Width by 17/32" Thick) (Cont.)		
5VX490	49"	459N30
5VX500	50"	459N31
5VX510	51"	459N32
5VX530	53"	459N33
5VX540	54"	459N34
5VX550	55"	459N35
5VX560	56"	459N36
5VX570	57"	459N37
5VX580	58"	459N38
5VX590	59"	459N39
5VX600	60"	459N40
5VX610	61"	459N41
5VX630	63"	459N42
5VX650	65"	459N43
5VX660	66"	459N44
5VX670	67"	459N45
5VX680	68"	459N46
5VX690	69"	459N47
5VX710	71"	459N48
5VX730	73"	459N49
5VX740	74"	459N50
5VX750	75"	459N51
5VX780	78"	459N52
5VX800	80"	459N53
5VX810	81"	459N54
5VX830	83"	459N55
5VX840	84"	459N56
5VX850	85"	459N57
5VX860	86"	459N58
5VX880	88"	459N59
5VX900	90"	459N60
5VX930	93"	459N61
5VX950	95"	459N62
5VX960	96"	459N63
5VX1000	100"	459N11
5VX1030	103"	459N12
5VX1060	106"	459N13
5VX1080	108"	459N14
5VX1120	112"	459N15
5VX1150	115"	459N16
5VX1180	118"	459N17
5VX1230	123"	459N18
5VX1250	125"	459N19
5VX1320	132"	459N20
5VX1400	140"	459N21
5VX1500	150"	459N22
5VX1600	160"	459N23
5VX1700	170"	459N24
5VX1800	180"	459N25
5VX1900	190"	459N26
5VX2000	200"	459N27

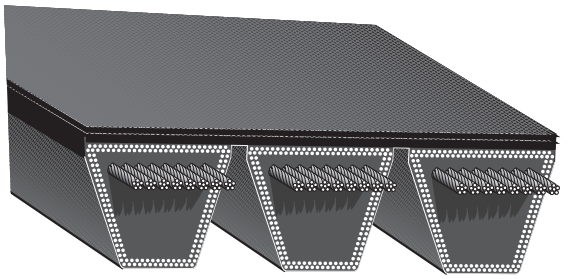
KeepStock®
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**



Continental
ContiTech

Banded V-Belts

HY-T® Torque Team® belts are designed and built to deliver superior performance. Belts provide high-strength and high-horsepower capacity. The tough fabric backing provides the maximum longitudinal flexibility and lateral strength to withstand the dynamic forces acting on the belt. Static conductive and resistant to heat, oil, ozone, and abrasion. Ideal for pulsating loads, high-capacity drives, and short center heavy-duty drives. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com®.

Industry No.	Outside L	Item No.
BX 2 Rib (1 21/64" Top Width by 13/32" Thick)		
2/BX46	49"	**458V37**
2/BX48	51"	**458V38**
2/BX50	53"	**458V39**
2/BX51	54"	**458V40**
2/BX52	55"	**458V41**
2/BX53	56"	**458V42**
2/BX54	57"	**458V43**
2/BX57	60"	**458V46**
2/BX58	61"	**458V47**
2/BX59	62"	**458V48**
2/BX61	64"	**458V49**
2/BX63	66"	**458V51**
2/BX64	67"	**458V52**
2/BX65	68"	**458V53**
2/BX67	70"	**458V54**
2/BX68	71"	**458V55**
2/BX70	73"	**458V56**
2/BX71	74"	**458V57**
2/BX72	75"	**458V58**
2/BX78	81"	**458V63**
2/BX79	82"	**458V64**
2/BX80	83"	**458V65**
2/BX81	84"	**458V66**
2/BX82	85"	**458V67**
2/BX83	86"	**458V68**
2/BX85	88"	**458V69**
2/BX87	90"	**458V70**
2/BX88	91"	**458V71**
2/BX90	93"	**458V72**
2/BX93	96"	**458V73**
2/BX95	98"	**458V74**
2/BX99	102"	**458V76**
2/BX100	103"	**458V12**
2/BX108	111"	**459G57**
2/BX110	113"	**458V15**
2/BX112	115"	**459G58**
2/BX120	123"	**459G59**
2/BX128	131"	**459G60**
BX 3 Rib (1 63/64" Top Width by 13/32" Thick)		
3/BX46	49"	**458X38**
3/BX48	51"	**458X39**
3/BX50	53"	**458X40**
3/BX52	55"	**458X41**
3/BX53	56"	**458X42**
3/BX54	57"	**458X43**
3/BX57	60"	**458X46**
3/BX58	61"	**458X47**

Industry No.	Outside L	Item No.
BX 3 Rib (1 63/64" Top Width by 13/32" Thick) (Cont.)		
3/BX59	62"	**458X48**
3/BX61	64"	**458X50**
3/BX63	66"	**458X52**
3/BX64	67"	**458X53**
3/BX66	69"	**458X54**
3/BX67	70"	**458X55**
3/BX68	71"	**458X56**
3/BX70	73"	**458X57**
3/BX71	74"	**458X58**
3/BX72	75"	**458X59**
3/BX73	76"	**458X60**
3/BX74	77"	**458X61**
3/BX75	78"	**458X62**
3/BX77	80"	**458X63**
3/BX78	81"	**458X64**
3/BX79	82"	**458X65**
3/BX80	83"	**458X66**
3/BX81	84"	**458X67**
3/BX82	85"	**458X68**
3/BX87	90"	**458X69**
3/BX88	91"	**458X70**
3/BX90	93"	**458X71**
3/BX93	96"	**458X72**
3/BX99	102"	**458X74**
BX 4 Rib (2 41/64" Top Width by 13/32" Thick)		
4/BX46	49"	**458Z43**
4/BX48	51"	**458Z44**
4/BX50	53"	**458Z45**
4/BX51	54"	**458Z46**
4/BX52	55"	**458Z47**
4/BX53	56"	**458Z48**
4/BX54	57"	**458Z49**
4/BX57	60"	**458Z52**
4/BX58	61"	**458Z53**
4/BX59	62"	**458Z54**
4/BX61	64"	**458Z56**
4/BX63	66"	**458Z58**
4/BX64	67"	**458Z59**
4/BX66	69"	**458Z61**
4/BX67	70"	**458Z62**
4/BX68	71"	**458Z63**
4/BX70	73"	**458Z64**
4/BX71	74"	**458Z65**
4/BX72	75"	**458Z66**
4/BX73	76"	**458Z67**
4/BX74	77"	**458Z68**
4/BX75	78"	**458Z69**
4/BX77	80"	**458Z70**
4/BX78	81"	**458Z71**

Industry No.	Outside L	Item No.
BX 4 Rib (2 41/64" Top Width by 13/32" Thick) (Cont.)		
4/BX79	82"	**458Z72**
4/BX80	83"	**458Z73**
4/BX81	84"	**458Z74**
4/BX82	85"	**458Z75**
4/BX83	86"	**458Z76**
4/BX85	88"	**458Z77**
4/BX87	90"	**458Z78**
4/BX90	93"	**458Z79**
4/BX93	96"	**458Z80**
4/BX95	98"	**458Z81**
4/BX99	102"	**458Z83**
4/BX100	103"	**458Z19**
4/BX108	111"	**458Z22**
4/BX110	113"	**458Z23**
BX 5 Rib (3 19/64" Top Width by 13/32" Thick)		
5/BX46	49"	**459C52**
5/BX48	51"	**459C53**
5/BX50	53"	**459C54**
5/BX51	54"	**459C55**
5/BX52	55"	**459C56**
5/BX53	56"	**459C57**
5/BX54	57"	**459C58**
5/BX55	58"	**459C59**
5/BX56	59"	**459C60**
5/BX57	60"	**459C61**
5/BX58	61"	**459C62**
5/BX59	62"	**459C63**
5/BX60	63"	**459C64**
5/BX61	64"	**459C65**
5/BX62	65"	**459C66**
5/BX63	66"	**459C67**
5/BX64	67"	**459C68**
5/BX65	68"	**459C69**
5/BX66	69"	**459C70**
5/BX67	70"	**459C71**
5/BX68	71"	**459C72**
5/BX70	73"	**459C73**
5/BX71	74"	**459C74**
5/BX72	75"	**459C75**
5/BX73	76"	**459C76**
5/BX74	77"	**459C77**
5/BX75	78"	**459C78**
5/BX77	80"	**459C79**
5/BX78	81"	**459C80**
5/BX79	82"	**459C81**
5/BX80	83"	**459C82**
5/BX81	84"	**459C83**
5/BX82	85"	**459C84**
5/BX83	86"	**459C85**
5/BX85	88"	**459C86**
5/BX87	90"	**459C87**

Industry No.	Outside L	Item No.
BX 5 Rib (3 19/64" Top Width by 13/32" Thick) (Cont.)		
5/BX90	93"	**459C88**
5/BX93	96"	**459C89**
5/BX95	98"	**459C90**
5/BX97	100"	**459C92**
5/BX99	102"	**459C93**
5/BX100	103"	**459C28**
5/BX108	111"	**459C31**
5/BX110	113"	**459C32**
BX 6 Rib (3 31/32" Top Width by 13/32" Thick)		
6/BX46	49"	**459F57**
6/BX48	51"	**459F58**
6/BX50	53"	**459F59**
6/BX51	54"	**459F60**
6/BX52	55"	**459F61**
6/BX54	57"	**459F62**
6/BX55	58"	**459F63**
6/BX57	60"	**459F64**
6/BX58	61"	**459F65**
6/BX60	63"	**459F66**
6/BX61	64"	**459F67**
6/BX62	65"	**459F68**
6/BX63	66"	**459F69**
6/BX64	67"	**459F70**
6/BX65	68"	**459F71**
6/BX66	69"	**459F72**
6/BX67	70"	**459F73**
6/BX68	71"	**459F74**
6/BX70	73"	**459F75**
6/BX71	74"	**459F76**
6/BX72	75"	**459F77**
6/BX73	76"	**459F78**
6/BX74	77"	**459F79**
6/BX75	78"	**459F80**
6/BX77	80"	**459F81**
6/BX78	81"	**459F82**
6/BX79	82"	**459F83**
6/BX80	83"	**459F84**
6/BX81	84"	**459F85**
6/BX82	85"	**459F86**
6/BX83	86"	**459F87**
6/BX85	88"	**459F88**
6/BX87	90"	**459F89**
6/BX90	93"	**459F90**
6/BX93	96"	**459F91**
6/BX95	98"	**459F92**
6/BX97	100"	**459F93**
6/BX99	102"	**459F94**
6/BX100	103"	**459F36**
6/BX108	111"	**459F39**

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Metric Raw-Edge Cogged V-Belts

Gates



Suitable for industrial applications such as textile mills, machine applications, and food processing, where metric cross sections are required. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). SPA, SPB, SPC, and XPC belt types are available on Grainger.com®.

Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.	Industry No.	Outside L	Item No.
XPZ (10mm Top Width by 8mm Thick)			**XPZ (10mm Top Width by 8mm Thick) (Cont.)**			**XPA (13mm Top Width by 10mm Thick) (Cont.)**			**XPA (13mm Top Width by 10mm Thick) (Cont.)**		
XPZ630	630mm	**1NKH2**	XPZ1537	1537mm	**1NKA9**	XPA1432	1432mm	**1NJU9**	XPA2682	2682mm	**1NKE1**
XPZ737	737mm	**1NJX7**	XPZ1562	1562mm	**1NJY4**	XPA1457	1457mm	**1NJW1**	XPA2800	2800mm	**1NJY9**
XPZ787	787mm	**1NJU4**	XPZ1587	1587mm	**1NKA6**	XPA1500	1500mm	**1NJV3**	XPA2882	2882mm	**1NKE8**
XPZ850	850mm	**1NKB4**	XPZ1700	1700mm	**1NJP5**	XPA1532	1532mm	**1NKA1**	XPA3000	3000mm	**1NKA3**
XPZ862	862mm	**1NKG6**	XPZ1737	1737mm	**1NKH8**	XPA1550	1550mm	**1NKF7**	**XPB (17mm Top Width by 13mm Thick)**		
XPZ925	925mm	**1NJZ4**	XPZ1750	1750mm	**1NKE2**	XPA1582	1582mm	**1NKE6**	XPB1250	1250mm	**1NJZ8**
XPZ937	937mm	**1NKE3**	XPZ1800	1800mm	**1NJZ3**	XPA1600	1600mm	**1NJT4**	XPB1320	1320mm	**1NKF9**
XPZ950	950mm	**1NJP8**	XPZ1837	1837mm	**1NJX6**	XPA1632	1632mm	**1NJN7**	XPB1340	1340mm	**1NKH9**
XPZ962	962mm	**1NKF2**	XPZ1862	1862mm	**1NJT1**	XPA1657	1657mm	**1NKF6**	XPB1450	1450mm	**1NKH4**
XPZ987	987mm	**1NJX3**	XPZ1900	1900mm	**1NJU2**	XPA1700	1700mm	**1NJR6**	XPB1500	1500mm	**1NJU8**
XPZ1012	1012mm	**1NJW5**	XPZ1950	1950mm	**1NJR9**	XPA1732	1732mm	**1NKF4**	XPB1590	1590mm	**1NJZ1**
XPZ1024	1024mm	**1NKD8**	XPZ2000	2000mm	**1NJT2**	XPA1757	1757mm	**1NKG2**	XPB1627	1627mm	**1NKJ9**
XPZ1060	1060mm	**1NJW6**	XPZ2120	2120mm	**1NJT9**	XPA1782	1782mm	**1NKD4**	XPB1700	1700mm	**1NJP6**
XPZ1087	1087mm	**1NKE5**	XPZ2240	2240mm	**1NKB1**	XPA1800	1800mm	**1NJR7**	XPB1800	1800mm	**1NJR2**
XPZ1120	1120mm	**1NJV8**	XPZ2500	2500mm	**1NKG7**	XPA1832	1832mm	**1NJU7**	XPB1900	1900mm	**1NJR5**
XPZ1137	1137mm	**1NJY1**	**XPA (13mm Top Width by 10mm Thick)**			XPA1857	1857mm	**1NKG1**	XPB2000	2000mm	**1NJT6**
XPZ1150	1150mm	**1NKC8**	XPA1000	1000mm	**1NJV4**	XPA1882	1882mm	**1NJV1**	XPB2020	2020mm	**1NKD1**
XPZ1180	1180mm	**1NJR4**	XPA1032	1032mm	**1NJV7**	XPA1900	1900mm	**1NJT5**	XPB2120	2120mm	**1NJR1**
XPZ1187	1187mm	**1NKB8**	XPA1060	1060mm	**1NJN8**	XPA1932	1932mm	**1NKD3**	XPB2150	2150mm	**1NKB6**
XPZ1202	1202mm	**1NKB5**	XPA1120	1120mm	**1NJV2**	XPA1950	1950mm	**1NKH1**	XPB2180	2180mm	**1NKF5**
XPZ1212	1212mm	**1NJY8**	XPA1150	1150mm	**1NJV5**	XPA1982	1982mm	**1NKH5**	XPB2240	2240mm	**1NJP9**
XPZ1250	1250mm	**1NKA8**	XPA1157	1157mm	**1NKJ4**	XPA2000	2000mm	**1NJU6**	XPB2280	2280mm	**1NKG4**
XPZ1270	1270mm	**1NKA2**	XPA1180	1180mm	**1NKA4**	XPA2120	2120mm	**1NJT7**	XPB2300	2300mm	**1NJX2**
XPZ1287	1287mm	**1NKG3**	XPA1207	1207mm	**1NJZ5**	XPA2132	2132mm	**1NKA5**	XPB2360	2360mm	**1NJP4**
XPZ1312	1312mm	**1NJR3**	XPA1232	1232mm	**1NJZ6**	XPA2182	2182mm	**1NKB9**	XPB2410	2410mm	**1NJX1**
XPZ1320	1320mm	**1NJX8**	XPA1250	1250mm	**1NJV9**	XPA2240	2240mm	**1NKC7**	XPB2500	2500mm	**1NJP2**
XPZ1340	1340mm	**1NKE4**	XPA1257	1257mm	**1NKF1**	XPA2300	2300mm	**1NKB3**	XPB2530	2530mm	**1NKA7**
XPZ1400	1400mm	**1NJT3**	XPA1307	1307mm	**1NJW8**	XPA2360	2360mm	**1NJP3**	XPB2650	2650mm	**1NJP1**
XPZ1450	1450mm	**1NKC6**	XPA1320	1320mm	**1NKC1**	XPA2382	2382mm	**1NKK2**	XPB2680	2680mm	**1NKD2**
XPZ1462	1462mm	**1NKC2**	XPA1357	1357mm	**1NKB2**	XPA2500	2500mm	**1NJY2**	XPB2800	2800mm	**1NJP7**
XPZ1500	1500mm	**1NKD5**	XPA1400	1400mm	**1NJU1**	XPA2650	2650mm	**1NJX9**	XPB3000	3000mm	**1NJR8**
XPZ1512	1512mm	**1NKC3**									

No. 3HEU3



Dayton

Variable Speed Belts

Oil- and heat-resistant top cover for dimensional stability. Use with belt systems that have smaller pulleys, wide speed ranges, high-horsepower demands, or high-heat applications. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Top Width	Outside L	Item No.
1228V255	¾"	26"	**3HEU3**
1422V290	⅞"	29½"	**3HEU4**
1626V290	1"	29½"	**3HEU5**
1922V277	1 3/16"	28 13/32"	**3HEU6**
1922V298	1 3/16"	30 13/32"	**3HEU7**
1922V338	1 3/16"	34 13/32"	**3HEU8**
1922V363	1 3/16"	36 29/32"	**3HEU9**
1922V386	1 3/16"	39¼"	**3HEV1**
1922V403	1 3/16"	40 29/32"	**3HEV2**
1922V426	1 3/16"	43¼"	**3HEV3**
1922V443	1 3/16"	44 29/32"	**3HEV4**
1922V454	1 3/16"	46"	**3HEV5**
1922V484	1 3/16"	49"	**3HEV6**
1922V526	1 3/16"	53¼"	**3HEV7**
1922V544	1 3/16"	55"	**3HEV8**
1922V604	1 3/16"	61"	**3HEV9**
2230V273	1⅜"	28"	**3HEW1**
2230V275	1⅜"	28¼"	**3HEW2**
2230V345	1⅜"	35 9/32"	**3HEW3**
2322V441	1 7/16"	44¾"	**3HEW4**
2322V481	1 7/16"	48 29/32"	**3HEW5**
2322V541	1 7/16"	54¾"	**3HEW6**
2322V601	1 7/16"	60 29/32"	**3HEW7**
2426V343	1½"	35"	**3HEW8**
2428V345	1½"	35¼"	**3HEW9**
2430V345	1½"	35¼"	**3HEX1**
2430V354	1½"	36 9/32"	**3HEX2**
2830V363	1¾"	37¼"	**3HEX3**

Micro Ribbed V-Belts for Compressors

★ Dayton

6-rib belts for many Dayton®, Speedaire®, and other brand compressors. High tensile strength; oil and heat resistant. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Top Width	Outside L	Item No.
410J6	9/16"	41"	**3X707**
460J6	9/16"	46"	**3X655**
490J6	9/16"	49"	**3X542**





No. 6AGK5



No. 6AGK6



No. 6AGK7

PowerDrive

TB Wood's Incorporated

V-Belt Accessories

Wall Rack—36"L with mounting holes and includes six 6" hooks. Not for V-belts over 72"L.

Rule—Aluminum slide adjustment and measures (3L, 4L, 5L, A, B, 3V, and 5V) V-belts up to 100". With mounting holes.

Tension Checker—Compact, spring-loaded. Adjustable for 10" to 170" belt span and up to 35 lb. of tension.

Sheave Groove Gauge—Handy tool lets you quickly check belt section and sheave groove wear.



No. 10Y311

Description	Brand	Item No.
Wall Rack	Power Drive	**6AGK5**
Rule	Power Drive	**6AGK6**
Tension Checker	Power Drive	**6AGK7**
Sheave Groove Gauge	TB Woods	**10Y311**



No. 1DHH8

Timing Belts

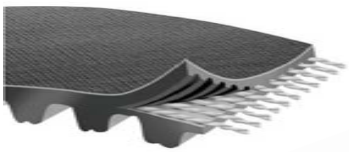
- XL, H, L, and HT Series
- For timing belt pulleys, see page 114

Quiet operating, low-maintenance synchronous timing belts ensure nonslip, positive performance with low tension requirements.

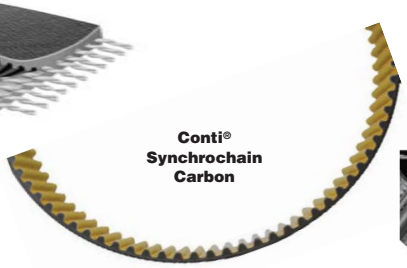
Note: 50mm, 85mm, and 115mm wide timing belts are available on Grainger.com®; search for "timing belts" and Filter Results by desired width.

No. of Teeth	Pitch Length	Industry No.	Item No.
XL ⅕" Pitch ¼" Wide			
30	6"	60XL025	**1DHE7**
35	7"	70XL025	**1DHE8**
40	8"	80XL025	**1DHE9**
45	9"	90XL025	**1DHF1**
50	10"	100XL025	**1DHF2**
55	11"	110XL025	**1DHF3**
60	12"	120XL025	**1DHF4**
65	13"	130XL025	**1DHF5**
70	14"	140XL025	**1DHF6**
75	15"	150XL025	**1DHF7**
80	16"	160XL025	**1DHF8**
85	17"	170XL025	**1DHF9**
90	18"	180XL025	**1DHG1**
95	19"	190XL025	**1DHG2**
100	20"	200XL025	**1DHG3**
105	21"	210XL025	**1DHG4**
110	22"	220XL025	**1DHG5**
115	23"	230XL025	**1DHG6**
120	24"	240XL025	**1DHG7**
125	25"	250XL025	**1DHG8**
130	26"	260XL025	**1DHG9**
XL ⅕" Pitch ⅜" Wide			
30	6"	60XL037	**1DHH1**
35	7"	70XL037	**1DHH2**
40	8"	80XL037	**1DHH3**
45	9"	90XL037	**1DHH4**
50	10"	100XL037	**1DHH5**
55	11"	110XL037	**1DHH6**
60	12"	120XL037	**1DHH7**
65	13"	130XL037	**1DHH8**
70	14"	140XL037	**1DHH9**
75	15"	150XL037	**1DHJ1**
80	16"	160XL037	**1DHJ2**
85	17"	170XL037	**1DHJ3**
90	18"	180XL037	**1DHJ4**
95	19"	190XL037	**1DHJ5**
100	20"	200XL037	**1DHJ6**
105	21"	210XL037	**1DHJ7**
110	22"	220XL037	**1DHJ8**
115	23"	230XL037	**1DHJ9**
120	24"	240XL037	**1DHK1**
125	25"	250XL037	**1DHK2**
130	26"	260XL037	**1DHK3**
L ⅜" Pitch ½" Wide			
33	12.375"	124L050	**1DHK4**
40	15"	150L050	**1DHK5**
50	18.75"	187L050	**1DHK6**
56	21"	210L050	**1DHK7**
60	22.5"	225L050	**1DHK8**
64	24"	240L050	**1DHK9**
68	25.5"	255L050	**1DHL1**
72	27"	270L050	**1DHL2**
76	28.5"	285L050	**1DHL3**
80	30"	300L050	**1DHL4**
86	32.25"	322L050	**1DHL5**
92	34.5"	345L050	**1DHL6**
98	36.75"	367L050	**1DHL7**
104	39"	390L050	**1DHL8**
112	42"	420L050	**1DHL9**
120	45"	450L050	**1DHN1**
128	48"	480L050	**1DHN2**
136	51"	510L050	**1DHN3**
144	54"	540L050	**1DHN4**
160	60"	600L050	**1DHN5**
L ⅜" Pitch 1" Wide			
33	12.375"	124L100	**1DHN6**
40	15"	150L100	**1DHN7**
50	18.75"	187L100	**1DHN8**
56	21"	210L100	**1DHN9**
60	22.5"	225L100	**1DHP1**
64	24"	240L100	**1DHP2**
68	25.5"	255L100	**1DHP3**
72	27"	270L100	**1DHP4**
76	28.5"	285L100	**1DHP5**
80	30"	300L100	**1DHP6**
86	32.25"	322L100	**1DHP7**
92	34.5"	345L100	**1DHP8**
98	36.75"	367L100	**1DHP9**
104	39"	390L100	**1DHR1**
112	42"	420L100	**1DHR2**
120	45"	450L100	**1DHR3**
128	48"	480L100	**1DHR4**
136	51"	510L100	**1DHR5**
144	54"	540L100	**1DHR6**
160	60"	600L100	**1DHR7**

No. of Teeth	Pitch Length	Industry No.	Item No.
H ½" Pitch 1" Wide			
48	24"	240H100	**1DHR8**
54	27"	270H100	**1DHR9**
60	30"	300H100	**1DHT1**
66	33"	330H100	**1DHT2**
72	36"	360H100	**1DHT3**
78	39"	390H100	**1DHT4**
84	42"	420H100	**1DHT5**
90	45"	450H100	**1DHT6**
96	48"	480H100	**1DHT7**
102	51"	510H100	**1DHT8**
108	54"	540H100	**1DHT9**
114	57"	570H100	**1DHU1**
120	60"	600H100	**1DHU2**
126	63"	630H100	**1DHU3**
132	66"	660H100	**1DHU4**
140	70"	700H100	**1DHU5**
HT 8mm Pitch 20mm Wide			
60	480mm	4808M20	**1DHU6**
70	560mm	5608M20	**1DHV1**
75	600mm	6008M20	**1DHV5**
80	640mm	6408M20	**1DHV9**
90	720mm	7208M20	**1DHW4**
100	800mm	8008M20	**1DHW8**
110	880mm	8808M20	**1LVR7**
120	960mm	9608M20	**1LVT2**
130	1040mm	10408M20	**1LVT6**
140	1120mm	11208M20	**1LVU1**
150	1200mm	12008M20	**1LVU5**
160	1280mm	12808M20	**1LVU9**
180	1440mm	14408M20	**1LVX4**
200	1600mm	16008M20	**1LVX8**
220	1760mm	17608M20	**1LVZ3**
225	1800mm	18008M20	**1LVZ7**
250	2000mm	20008M20	**1LWA2**
HT 8mm Pitch 30mm Wide			
60	480mm	4808M30	**1DHU7**
70	560mm	5608M30	**1DHV2**
75	600mm	6008M30	**1DHV6**
80	640mm	6408M30	**1DHW1**
90	720mm	7208M30	**1DHW5**
100	800mm	8008M30	**1DHW9**
110	880mm	8808M30	**1LVR8**
120	960mm	9608M30	**1LVT3**
130	1040mm	10408M30	**1LVT7**
140	1120mm	11208M30	**1LVU2**
150	1200mm	12008M30	**1LVU6**
160	1280mm	12808M30	**1LVX1**
180	1440mm	14408M30	**1LVX5**
200	1600mm	16008M30	**1LVX9**
220	1760mm	17608M30	**1LVZ4**
225	1800mm	18008M30	**1LVZ8**
250	2000mm	20008M30	**1LWA3**
HT 14mm Pitch 40mm Wide			
85	1190mm	119014M40	**1LWB5**
100	1400mm	140014M40	**1LWB9**
115	1610mm	161014M40	**1LWC4**
127	1778mm	177814M40	**1LWC8**
135	1890mm	189014M40	**1LWD3**
150	2100mm	210014M40	**1LWD7**
165	2310mm	231014M40	**1LWE2**
175	2450mm	245014M40	**1LWE6**
185	2590mm	259014M40	**1LWF1**
200	2800mm	280014M40	**1LWF5**
225	3150mm	315014M40	**1LWF9**
250	3500mm	350014M40	**1LWG4**
275	3850mm	385014M40	**1LWG8**
HT 14mm Pitch 55mm Wide			
85	1190mm	119014M55	**1LWB6**
100	1400mm	140014M55	**1LWC1**
115	1610mm	161014M55	**1LWC5**
150	2100mm	210014M55	**1LWD8**
165	2310mm	231014M55	**1LWE3**
175	2450mm	245014M55	**1LWE7**
185	2590mm	259014M55	**1LWF2**
200	2800mm	280014M55	**1LWF6**
225	3150mm	315014M55	**1LWG1**
275	3850mm	385014M55	**1LWG9**



Falcon Pd



Conti® Synchrochain Carbon



Hawk Pd



Dual Hi-Performance Pd

Timing Belts

- 8mm pitch
- For timing belt pulleys, see page 114

Versatile positive drive belts combine the advantages of V-belts with chain and gear for power transmission belting that is efficient and precisely accurate. They are engineered to be adaptable to almost any type of drive, from printers to heavy industrial milling machines and grinders.

Falcon Pd®—Designed to handle applications with increased horsepower and low torque, as well as those requiring backside idlers. High-grade rubber blend compound is formulated to resist tooth deformity, increase tooth rigidity, and withstand much higher temperatures than polyurethane belts.

No. of Teeth	Pitch Length	Mfr. Model*	12mm WIDE Item No.	21mm WIDE Item No.	36mm WIDE Item No.
Falcon Pd®					
80	640mm	8GTR-640	**2UVY8**	**2UVY9**	**2UVZ1**
90	720mm	8GTR-720	**2UVZ2**	**2UVZ3**	**2UVZ4**
100	800mm	8GTR-800	**2UVZ5**	**2UVZ6**	**2UVZ7**
112	896mm	8GTR-896	**2UVZ8**	**2UVZ9**	**2UWA1**
125	1000mm	8GTR-1000	**2UVP6**	**2UVP7**	**2UVP8**
140	1120mm	8GTR-1120	**2UVP9**	**2UVR1**	**2UVR2**
150	1200mm	8GTR-1200	**2UVR3**	**2UVR4**	**2UVR5**
160	1280mm	8GTR-1280	**2UVR6**	**2UVR7**	**2UVR8**
180	1440mm	8GTR-1440	**2UVR9**	**2UVT1**	**2UVT2**
200	1600mm	8GTR-1600	**2UVT3**	**2UVT4**	**2UVT5**
224	1792mm	8GTR-1792	**2UVT6**	**2UVT7**	**2UVT8**
250	2000mm	8GTR-2000	**2UVT9**	**2UVU1**	**2UVU2**
280	2240mm	8GTR-2240	**2UVU3**	**2UVU4**	**2UVU5**
300	2400mm	8GTR-2400	**2UVU6**	**2UVU7**	**2UVU8**
315	2520mm	8GTR-2520	**2UVU9**	**2UVX1**	**2UVX2**
355	2840mm	8GTR-2840	**2UVX3**	**2UVX4**	**2UVX5**
400	3200mm	8GTR-3200	**2UVX6**	**2UVX7**	**2UVX8**
450	3600mm	8GTR-3600	**2UVX9**	**2UVY1**	**2UVY2**
500	4000mm	8GTR-4000	**2UVY3**	**2UVY4**	**2UVY5**
560	4480mm	8GTR-4480	**2UVY6**	**2UVY7**	—

No. of Teeth	Pitch Length	Mfr. Model*	12mm WIDE Item No.	21mm WIDE Item No.	36mm WIDE Item No.
Conti® Synchrochain Carbon					
80	640mm	CTD8M-640	**39GC56**	**39GD55**	**39GC15**
90	720mm	CTD8M-720	**39GC66**	**39GC64**	**39GC45**
100	800mm	CTD8M-800	**39GD03**	**39GC80**	**39GC53**
112	896mm	CTD8M-896	**39GC40**	**39GD46**	**39GC31**
125	1000mm	CTD8M-1000	**39GC41**	**39GC29**	**39GD23**
140	1120mm	CTD8M-1120	**39GD39**	**39GD41**	**39GD26**
150	1200mm	CTD8M-1200	**39GD91**	**39GC81**	**39GD12**
160	1280mm	CTD8M-1280	**39GD06**	**39GC96**	**39GD57**
180	1440mm	CTD8M-1440	**39GD80**	**39GC57**	**39GD44**
200	1600mm	CTD8M-1600	**39GC86**	**39GD77**	**39GD69**
224	1792mm	CTD8M-1792	**39GD27**	**39GC59**	**39GD97**
250	2000mm	CTD8M-2000	**39GC89**	**39GC62**	**39GD61**
280	2240mm	CTD8M-2240	**39GD92**	**39GC92**	**39GD90**
300	2400mm	CTD8M-2400	**39GD30**	**39GC39**	**39GC99**
315	2520mm	CTD8M-2520	**39GD67**	**39GC42**	**39GD36**
355	2840mm	CTD8M-2840	**39GC28**	**39GD49**	**39GC60**
400	3200mm	CTD8M-3200	**39GD79**	**39GC13**	**39GC20**
450	3600mm	CTD8M-3600	**39GC73**	**39GD56**	**39GD21**
500	4000mm	CTD8M-4000	**39GC69**	**39GD73**	**39GD66**

Conti® Synchrochain Carbon—Developed for extreme applications that require reliable transmission of large power outputs, high torques, and high speeds, or with high dynamic stressing. Belts allow reverse flexing in multipulley drives. Compatible with other heavy-duty profiles.

Hawk Pd®—Universal-profile belts made with advanced compounded materials are designed to fit the majority of high-capacity synchronous drive requirements.

Note: 85mm Hawk Pd timing belts are available on Grainger.com®.

Dual Hi-Performance Pd® —Double-sided belts provide compactness and greater horsepower capacity in precision drives with synchronized reverse-rotation drive shafts. Specialty rubber compound has excellent oil, heat, ozone, and abrasion resistance, for extended belt life.

Note: Additional size Continental ContiTech timing belts are available on Grainger.com®.

No. of Teeth	Pitch Length	Mfr. Model*	20mm WIDE Item No.	30mm WIDE Item No.	50mm WIDE Item No.
Hawk Pd®					
75	600mm	600 8M	**2UVL4**	**2UVL5**	**2UVL6**
80	640mm	640 8M	**2UVL8**	**2UVL9**	**2UVN1**
90	720mm	720 8M	**2UVN3**	**2UVN4**	**2UVN5**
100	800mm	800 8M	**2UVN7**	**2UVN8**	**2UVN9**
110	880mm	880 8M	**2UVP2**	**2UVP3**	**2UVP4**
120	960mm	960 8M	**2UWA2**	**2UWA3**	**2UWA4**
130	1040mm	1040 8M	**2UVF3**	**2UVF4**	**2UVF5**
140	1120mm	1120 8M	**2UVF7**	**2UVF8**	**2UVF9**
150	1200mm	1200 8M	**2UVG2**	**2UVG3**	**2UVG4**
160	1280mm	1280 8M	**2UVG6**	**2UVG7**	**2UVG8**
180	1440mm	1440 8M	**2UVH1**	**2ZRU5**	**2UVH2**
200	1600mm	1600 8M	**2UVH4**	**2UVH5**	**2UVH6**
220	1760mm	1760 8M	**2UVH8**	**2UVH9**	**2UVJ1**
225	1800mm	1800 8M	**2UVJ3**	**2UVJ4**	**2UVJ5**
250	2000mm	2000 8M	**2UVJ7**	**2UVJ8**	**2UVJ9**
300	2400mm	2400 8M	**2UVK2**	**2UVK3**	**2UVK4**
325	2600mm	2600 8M	**2UVK6**	**2UVK7**	**2UVK8**
350	2800mm	2800 8M	**2UVL1**	**2UVL2**	**2UWP7**

No. of Teeth	Pitch Length	Mfr. Model*	20mm WIDE Item No.	30mm WIDE Item No.	50mm WIDE Item No.
Dual Hi-Performance Pd®					
90	720mm	D720 8M	**2UWF1**	—	—
100	800mm	D800 8M	—	**2UWF2**	—
120	960mm	D960 8M	—	**2UWF3**	—
130	1040mm	D1040 8M	**2UWA6**	—	—
140	1120mm	D1120 8M	—	**2UWA7**	—
150	1200mm	D1200 8M	—	**2UWA8**	—
160	1280mm	D1280 8M	—	**2UWA9**	—
180	1440mm	D1440 8M	**2UWC1**	**2UWC2**	**2UWC3**
200	1600mm	D1600 8M	**2UWC4**	**2UWC5**	**2UWC6**
220	1760mm	D1760 8M	—	**2UWC8**	**2UWC9**
225	1800mm	D1800 8M	**2UWD2**	**2UWD3**	—
250	2000mm	D2000 8M	—	**2UWD5**	—
300	2400mm	D2400 8M	**2UWD6**	**2UWD7**	**2UWD8**
325	2600mm	D2600 8M	—	**2UWD9**	**2UWE1**
350	2800mm	D2800 8M	**2UWE2**	**2UWE3**	**2UWE4**
381	3048mm	D3048 8M	—	—	**2UWE5**
410	3280mm	D3280 8M	—	—	**2UWE7**
450	3600mm	D3600 8M	—	**2UWE8**	**2UWE9**

**** To complete Mfr. Model No., add millimeter width.***

FIND MORE ONLINE
Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**











Fenner Drives

Eagle® Round Belting

- Temp. range: -22° to 150°F
- Sold in 100-ft. lengths

Polyurethane belts can be cut to required length; weld endless or use connectors for hollow-core belts to extend length. Smooth belts are FDA compliant. Solid-core metal-detectable belting is used in food processing and pharmaceutical applications.

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Hollow Core			
Clear, Smooth, Shore A 85			
3/16"	2"	4934009	**15V470**
1/4"	2 1/2"	4934012	**15V471**
5/16"	3"	4934015	**15V472**
3/8"	3 1/2"	4934018	**15V473**
1/2"	4 1/2"	4934024	**15V474**
5/8"	5 1/2"	4934030	**15V475**
Yellow, Smooth, Shore A 85			
3/16"	2"	4934021	**15V465**
1/4"	2 1/2"	4934022	**15V466**
5/16"	3"	4934023	**15V467**
3/8"	3 1/2"	4934025	**15V468**
1/2"	4 1/2"	4934026	**15V469**
Solid Core			
Orange, Smooth, Shore A 85			
3/32"	3/4"	1032003	**15V482**
1/8"	15/16"	1032004	**15V483**
3/16"	1 1/2"	1032006	**15V484**
1/4"	2"	1032008	**15V485**
5/16"	2 1/2"	1032010	**15V486**
3/8"	3"	1032012	**15V487**
1/2"	4"	1032016	**15V488**
9/16"	4 1/2"	1032018	**15V489**
5/8"	5"	1032020	**15V490**
3/4"	6"	1032024	**15V491**
Clear, Smooth, Shore A 95			
3/32"	1"	4907003	**15V492**
1/8"	1 1/4"	4907006	**15V493**
3/16"	1 7/8"	4907009	**15V494**
1/4"	2 1/2"	4907012	**15V495**
5/16"	3 1/8"	4907015	**15V496**
3/8"	3 3/4"	4907018	**15V497**
1/2"	5"	4907024	**15V498**
9/16"	5 5/8"	4907027	**15V499**
5/8"	6 1/4"	4907030	**15V501**
3/4"	7 1/2"	4907033	**15V502**

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Solid Core (Cont.)			
Green, Rough, Shore A 89			
2mm	3/4"	4905302	**15V506**
3mm	1"	4905303	**15V507**
4mm	1 7/16"	4905304	**15V508**
5mm	1 3/4"	4905305	**15V509**
6mm	2 1/8"	4905306	**15V510**
7mm	2 1/2"	4905307	**15V511**
8mm	2 53/64"	4905308	**15V512**
10mm	3 1/2"	4905310	**15V513**
12mm	4 1/4"	4905312	**15V514**
15mm	5 1/4"	4905315	**15V515**
Solid Core Reinforced			
Orange, Smooth, Shore A 85			
1/4"	2 1/2"	4940058	**15V503**
5/16"	3 1/8"	4940059	**15V504**
3/8"	3 3/4"	4940060	**15V505**
Solid Core Metal-Detectable			
Blue, Smooth, Shore A 80			
3/16"	1 5/16"	4941100	**30D659**
1/4"	1 3/4"	4941101	**30D660**
5/16"	2 3/16"	4941102	**30D661**
3/8"	2 5/8"	4941103	**30D662**

Dia.	Pkg. Qty.	Mfr. Model	Item No.
Aluminum Round Belt Connectors, For Use with Hollow Core Belts			
3/16"	25	4935009	**15V476**
1/4"	25	L04CON6S	**15V477**
5/16"	25	L04CON8S	**15V478**
3/8"	20	L04CON10S	**15V479**
1/2"	20	L04CON13S	**15V480**
5/8"	15	4935030	**15V481**



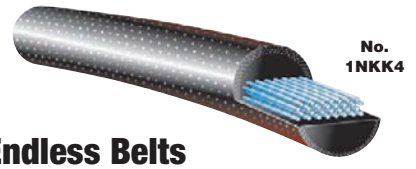
Fenner Drives

Eagle® Twisted O-Rings

- Clear, smooth texture, Shore A 85 hardness
- Sold in packages of 50

Quick-connect polyurethane twisted O-rings are a great fast-fit solution for live roller conveyors. No need to dismantle drive components, providing an easy way to avoid system downtime. Metal hooks are included.

Overall Length	Mfr. Model	Item No.
6"	5050003	**19RT86**
10 1/2"	5050015	**19RT98**
10 5/8"	5050004	**19RT94**
11"	5050012	**19RT95**
11 1/2"	5050911	**19RT97**
12"	5050016	**19RT99**
12 1/2"	5050005	**19RT87**
12 3/4"	5050002	**19RT92**
12 7/8"	5050006	**19RT88**
13"	5050007	**19RT89**
13 1/4"	5050017	**19RU01**
13 1/2"	5050009	**19RT90**
13 3/4"	5050014	**19RT96**
14"	5050008	**19RT93**
14 1/2"	5050010	**19RT91**



Gates

Round Endless Belts

- -30° to 140°F

Allow minimal stretch and have no splice, making them extra durable and efficient. Made from rubber with nylon reinforcement cords and designed for 1-quarter turn or twisted drives where more than an O-ring is required. Also suitable for serpentine drives, power turn and line shaft conveyors, and commercial sewing machines.

Dia.	Inside Length	Min. Pulley Dia.	Mfr. Model	Item No.
Reinforced Gum Rubber, Black, Shore A 80				
3/8"	36"	3"	88201234	**1NKL7**
	98"		88201486	**1NKK4**
7/16"	34"		88201835	**1NKL4**
	77 1/4"		88202008	**1NKL9**
9/16"	166"	5 13/32"	88203491	**1NKN4**
	176"		88203492	**1NKN5**
	190"		88203493	**1NKN2**
	200"		88203469	**1NKL8**
	210"		88203486	**1NKL3**
	233"		88203470	**1NKK7**
	250"		88203494	**1NKK5**
	270"		88203471	**1NKK6**
	308"		88203472	**1NKK9**
	331"		88203473	**1NKL2**
	345"		88203495	**1NKL5**
	386"		88203474	**1NKL1**
	416"		88203475	**1NKL6**
	447"		88203484	**1NKN1**
	465"		88203476	**1NKN3**
	564"		88203477	**1NKK8**
	660"		88203478	**1NKN6**



Fenner Drives

Eagle® Cordless Belt Welding Kit

Freestyle cordless welder is powered by 2 rechargeable batteries to complete up to 30 welds per charge. Features built-in profile clamping dies for both round and V belt profiles. Kit includes cordless welder, flat plate adapters, battery charger, 4 NiMH D batteries, cutting shears, flash cutters, blade release tape, and tool bag.

Description	Mfr. Model	Item No.
Used for Round and V-Belts	5700539	**5HYN7**

FACILITY AUDIT

The Grainger Energy Services Team is your resource to help identify and implement efficient energy solutions for your business. Schedule your facility audit to learn how much you can save with Grainger Energy Services.

> Visit **grainger.com/energyservices**



Variable-Pitch Adjustable Die-Cast V-Belt Pulleys

Congress DRIVES

- Zamak/zinc alloy
- Solid construction

Precision-machined threaded mating sections provide as much as 30% downward adjustment in pitch dia. for setting precise speed. Furnished with socket-head setscrews.

Outside Dia.	4L or A Belt Pitch Dia.	5L or B Belt Pitch Dia.	Mfr. Model*	BORE DIA. ½ in Item No.	BORE DIA. ⅝ in Item No.
3.5 in	2.4 in to 3.4 in	2.9 in to 3.5 in	VP350	1L844	1L845
3.25 in	2.1 in to 3.1 in	2.4 in to 3.2 in	VP325	54XM75	—
3.75 in	2.6 in to 3.6 in	3.1 in to 3.7 in	VP375	1L846	—
4.0 in	2.9 in to 3.9 in	3.2 in to 4.0 in	VP400	3LC27	54XM95
4.5 in	3.3 in to 4.3 in	3.7 in to 4.5 in	VP450	3LC29	3LC30

** To complete Mfr. Model, add X050 for ½" bore dia. and X062KW for ⅝" bore dia.*



No. 54XM75

Variable-Pitch Fixed-Bore Cast-Iron V-Belt Pulleys

TB Wood's Incorporated

- Solid construction

Adjust by loosening setscrews in hubs, turning threaded flange to desired setting, and then retightening setscrews. Standard keyway, see chart on this page. ½" bore dia. has no keyway.



No. 5UHP5

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	5V Belt Pitch Dia.	Mfr. Model*	BORE DIA. ½" Item No.	⅝" Item No.	¾" Item No.	⅞" Item No.	1" Item No.	1⅛" Item No.	1⅜" Item No.	1⅝" Item No.
Single Groove													
2.58"	1.79" to 2.44"	—	—	—	1VP25	5UHP5	5UHP6	—	—	—	—	—	—
2.87"	1.87" to 2.69"	—	—	—	1VP30	5UHP7	5UHP8	—	—	—	—	—	—
3.15"	2.08" to 2.90"	2.32" to 3.04"	2.78" to 3.19"	—	1VP34	5UHP9	5UHR1	5UHR0	5UHR2	—	—	—	—
3.75"	2.26" to 3.18"	2.39" to 3.62"	2.95" to 3.77"	—	1VP40	5UHR3	5UHR5	5UHR4	5UHR6	—	—	—	—
4.15"	2.66" to 3.58"	2.79" to 4.02"	3.35" to 4.17"	—	1VP44	5UHR9	5UHT1	5UHT0	5UHT2	5UHR7	5UHR8	—	—
4.75"	3.26" to 4.18"	3.39" to 4.62"	3.95" to 4.77"	—	1VP50	5UHT5	5UHT7	5UHT6	5UHT8	5UHT3	5UHT4	—	—
5.35"	3.86" to 4.78"	3.49" to 5.22"	4.55" to 5.37"	—	1VP56	5UHU1	5UHU3	5UHU2	5UHU4	5UHT9	5UHU0	—	—
5.95"	4.46" to 5.38"	4.59" to 5.82"	5.15" to 5.97"	5.07" to 5.87"	1VP62	—	5UHV1	—	5UHV2	5UHU8	5UHU9	5UHV0	—
6.00"	—	4.12" to 5.85"	4.68" to 5.91"	—	1VP60	—	52YP80	—	5UHU7	—	5UHU5	5UHU6	—
6.50"	—	4.62" to 5.85"	5.18" to 6.41"	5.10" to 6.33"	1VP65	—	—	—	5UHV5	—	5UHV3	5UHV4	—
6.55"	5.06" to 5.98"	5.19" to 6.42"	5.75" to 6.57"	5.67" to 6.49"	1VP68	—	—	—	5UHV9	5UHV6	5UHV7	5UHV8	—
7.10"	—	5.22" to 6.45"	5.78" to 7.01"	5.70" to 6.93"	1VP71	—	—	—	5UHW2	—	5UHW0	5UHW1	—
7.50"	—	5.62" to 6.85"	6.18" to 7.41"	6.10" to 7.33"	1VP75	—	—	—	5UHW5	—	5UHW3	5UHW4	—
2 Groove													
3.35"	2.27" to 2.78"	2.50" to 3.22"	2.76" to 3.37"	—	2VP36	—	5UHW7	5UHW6	5UHW8	—	—	—	—
3.35"	2.58" to 2.78"	3.02" to 3.22"	3.17" to 3.37"	—	2VP36	—	—	—	—	—	52YP81	—	—
3.95"	2.46" to 3.38"	2.70" to 3.82"	3.15" to 3.97"	—	2VP42	—	5UHX1	—	5UHX2	5UHW9	5UHX0	—	—
4.75"	3.26" to 4.18"	3.37" to 4.62"	3.95" to 4.77"	—	2VP50	—	5UHX5	—	5UHX6	5UHX3	5UHX4	—	—
5.35"	3.86" to 4.78"	3.99" to 5.22"	4.55" to 5.37"	—	2VP56	—	—	—	5UHX9	5UHX7	5UHX8	—	—
5.95"	4.46"	4.59" to 5.82"	5.15" to 5.97"	5.07" to 5.89"	2VP62	—	—	—	—	—	5UHY0	5UHY1	—
6.50"	—	4.62" to 5.85"	5.18" to 6.41"	5.10" to 6.33"	2VP65	—	—	—	—	—	5UHY2	5UHY3	5UHY4
6.55"	5.06"	5.19" to 6.42"	5.75" to 6.57"	5.67" to 6.48"	2VP68	—	—	—	—	—	6PFH6	5UHY5	—
7.10"	—	5.22" to 6.45"	5.78" to 7.01"	5.70" to 6.93"	2VP71	—	—	—	—	—	5UHY6	5UHY7	5UHY8
7.50"	—	5.62" to 6.85"	6.18" to 7.41"	6.10" to 7.33"	2VP75	—	—	—	—	—	5UHY9	5UHZ0	5UHZ1

** To complete Mfr. Model, add Bore Dia.*

Fixed-Bore Die-Cast V-Belt Pulleys

Congress DRIVES

- Zamak/zinc alloy

Precision sheaves have machined grooves and bores for high concentricity. Hollow-head setscrews. 6" dia. and larger are spoke construction to further reduce weight. All bores above ½" (except No. 3X893) have keyways, see chart on this page.

Outside Dia.	3L Belt Pitch Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	BORE DIA. ⅜" Item No.	½" Item No.	⅝" Item No.	¾" Item No.	⅞" Item No.	1" Item No.	1 3/16" Item No.
Solid Construction										
1.5"	1.05"	1.35"	CA0150	3X891	3X892	3X893	—	—	—	—
2"	1.55"	1.85"	CA0200	3X894	3X895	54XN25	3X897	—	—	—
2.25"	1.80"	2.1"	CA0225	—	3X898	54XN28	—	—	—	—
2.5"	2.05"	2.35"	CA0250	—	3X900	3X901	3X902	—	—	—
2.75"	2.30"	2.6"	CA0275	3LC06	1L837	1L838	—	—	—	—
3"	2.55"	2.85"	CA0300	3LC08	3X903	54XM35	3X905	3LC09	54XM69	—
3.5"	3.05"	3.35"	CA0350	54XM65	54XN10	3X907	3X908	3LC12	3LC10	—
4"	3.55"	3.85"	CA0400	3LC14	54XN13	3X910	3X911	3LC15	3LC13	—
4.5"	4.05"	4.35"	CA0450	—	3X912	3X913	54XN18	3LC17	3LC16	—
5"	4.55"	4.85"	CA0500	—	3X915	3X916	54XN01	3LC19	3LC18	—
Spoked Construction										
6"	5.55"	5.85"	CA0600	—	3X918	54XN03	54XN04	3LC20	3X921	—
7"	6.55"	6.85"	CA0700	—	3X922	3X923	—	3LC21	3X925	—
8"	7.55"	7.85"	CA0800	—	54XM36	54XM37	3X928	3LC22	54XM39	—
9"	8.55"	8.85"	CA0900	—	3X930	3X931	3X932	3LC23	3X933	—
10"	9.55"	9.85"	CA1000	—	3X934	3X935	3X936	3KZ99	3X937	—
11"	10.55"	10.85"	CA1100	—	—	1L839	1L840	—	1L841	—
12"	11.55"	11.85"	CA1200	—	3X938	54XM49	54XM50	3LC02	54XM51	—
14"	13.55"	13.85"	CA1400	—	—	54XM76	3X942	3LC03	3X943	54XM54

** To complete Mfr. Model, add X037 for ⅜", add X050 for ½", add X062KW for ⅝" (except 3X893 add X062), add X075KW for ¾", add X087KW for ⅞", add X100KW for 1", and add X118KW for 1 3/16".*



Solid Construction No. 54XN13



Spoked Construction No. 3X918

Standard Keyway and Setscrew Machining Guide

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
3/16 - 7/16"	3/32 x 3/64"	#8-32"
1/2 - 9/16"	1/8 x 1/16"	#10-24"
5/8 - 7/8"	3/16 x 3/32"	1/4"
15/16-1 1/4"	1/4 x 1/8"	5/16"
1 5/16- 1 3/8"	5/16 x 5/32"	5/16"
1 7/16-1 3/4"	3/8 x 3/16"	3/8"
1 13/16-2 1/4"	1/2 x 1/4"	1/2"
2 5/16-2 3/4"	5/8 x 5/16"	5/8"
2 13/16-3 1/4"	3/4 x 3/8"	3/4"
3 5/16-3 3/4"	7/8 x 1/16"	3/4"

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
3 13/16-4 1/2"	1 x 1/2"	3/4"
4 9/16-5 1/2"	1 1/4 x 5/8"	3/4"
5 9/16-6 1/2"	1 1/2 x 3/4"	1"
6 9/16-7 1/2"	1 3/4 x 7/8"	1"
7 9/16-8 15/16"	2 x 1"	1"
9-10 15/16"	2 1/2 x 1 1/4"	1"

† Setscrew size may vary depending on hub wall thickness. As a general rule, the hub wall over the keyway should be equal to or greater than the dia. of the setscrew.
Note: Maximum bore guidelines should be adhered to in order to ensure maximum product quality standards.

Find more information on Standard Keyway and Setscrew Machining on pages 109, 119



No. 54XM91

Congress DRIVES

3- and 4-Step Fixed-Bore Die-Cast V-Belt Pulleys

- Zamak/zinc alloy
- Reducer bushing included
- Solid construction

Bore and grooves are machined together to provide high concentricity. Use in pairs (1 inverted), in any combination, for effective speed regulation. Will fit a ⅝" or ½" dia. shaft. Designed for use with 4L or A Type V-belts. Pitch dia. is 0.15" less than outside dia.

Pulley Outside Dia.	Mfr. Model	Item No.
3 Step		
1.87", 2.50", 3.31"	SCA300-3X062KW	**54XM91**
2.00", 3.00", 4.00"	SCA400-3X062KW	**4X559**
3.00", 4.00", 5.00"	SCA500-3X062KW	**1L842**
4.00", 5.00", 6.00"	SCA600-3X062KW	**3LC25**
4 Step		
2.00", 2.62", 3.37", 4.00"	SCA400-4X062KW	**4X560**
2.00", 3.00", 4.00", 5.00"	SCA500-4X062KW	**54XM80**
3.00", 4.00", 5.00", 6.00"	SCA600-4X062KW	**54XM93**



Solid Construction
No. 5RHY3
AK Series



Arm Construction
No. 5RHX2
AK Series



Web Construction
No. 5UHL3
BK Series

TB Wood's Incorporated

Fixed-Bore Light-Duty Cast-Iron V-Belt Pulleys

- Efficient and lightweight
- Standard keyway with setscrew
- ½" bore dia. has no keyway but has setscrew

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model*	BORE DIA. ½" Item No.	⅝" Item No.	¾" Item No.	⅞" Item No.	1" Item No.	1⅛" Item No.	1⅜" Item No.
AK Series Single Groove												
1.75"	—	1.5"	—	Solid	AK17	**5RHY3**	**5RHY4**	—	—	—	—	—
2.05"	1.46"	1.8"	—	Solid	AK20	**5RHY5**	**5RHY7**	**5RHY6**	—	—	—	—
2.25"	1.66"	2"	—	Solid	AK22	**5RHY8**	**5RHZ0**	**5RHY9**	—	—	—	—
2.55"	1.96"	2.3"	—	Web	AK25	**5RHZ1**	**5RHZ3**	**5RHZ2**	**5RHZ4**	—	—	—
2.85"	2.26"	2.6"	—	Web	AK28	**5RHZ5**	**5RHZ7**	**5RHZ6**	**5RHZ8**	—	—	—
3.05"	2.46"	2.8"	—	Web	AK30	—	**5RHZ9**	—	**5RJA0**	—	—	—
3.25"	2.66"	3"	—	Web	AK32	**14A165**	**14A166**	**14A167**	**14A168**	**14A169**	—	—
3.45"	2.86"	3.2"	—	Web	AK34	**5RJA1**	**5RJA3**	**5RJA2**	**5RJA4**	—	—	—
3.75"	3.16"	3.5"	—	Web	AK39	**5RJA6**	**5RJA8**	**5RJA7**	**5RJA9**	**5RJA5**	—	—
3.95"	3.36"	3.7"	—	Web	AK41	**5RJC1**	**5RJC3**	**5RJC2**	**5RJC4**	**5RJC0**	—	—
4.25"	3.66"	4"	—	Arm	AK44	—	—	**52YP82**	**5RJC5**	—	—	—
4.45"	3.86"	4.2"	—	Arm	AK46	**5RJC7**	**5RJC9**	**5RJC8**	**5RJD0**	**5RJC6**	—	—
4.75"	4.16"	4.5"	—	Arm	AK49	—	—	—	**5RJD1**	—	—	—
4.95"	4.36"	4.7"	—	Arm	AK51	**5RJD3**	**5RJD5**	**5RJD4**	**5RJD6**	**5RJD2**	—	—
5.25"	4.66"	5"	—	Arm	AK54	—	—	—	**5RJD7**	—	—	—
5.45"	4.86"	5.2"	—	Arm	AK56	**5RJD9**	**5RJE1**	**5RJE0**	**5RJE2**	**5RJD8**	—	—
5.75"	5.16"	5.5"	—	Arm	AK59	—	—	—	**5RJE3**	—	—	—
5.95"	5.36"	5.7"	—	Arm	AK61	—	—	—	—	**52YP83**	—	—
6.25"	5.66"	6"	—	Arm	AK64	—	**5RJE6**	**5RJE5**	**5RJE7**	**5RJE4**	—	—
6.45"	5.86"	6.2"	—	Arm	AK66	—	—	—	—	**52YP84**	—	—
7.25"	6.66"	7"	—	Arm	AK74	—	**5RJF0**	**5RJE9**	**5RJF1**	**5RJE8**	—	—
7.75"	7.16"	7.5"	—	Arm	AK79	—	—	—	—	**52YP85**	—	—
8.25"	7.66"	8"	—	Arm	AK84	—	**5RJF4**	**5RJF3**	**5RJF5**	**5RJF2**	—	—
9.25"	8.66"	9"	—	Arm	AK94	—	**5RJF8**	**5RJF7**	**5RJF9**	**5RJF6**	—	—
10.25"	9.66"	10"	—	Arm	AK104	—	—	**5RHX3**	**5RHX4**	**5RHX2**	—	—
11.25"	10.66"	11"	—	Arm	AK114	—	—	**5RHX6**	**5RHX7**	**5RHX5**	—	—
12.25"	11.66"	12"	—	Arm	AK124	—	—	—	**5RHX9**	**5RHX8**	—	—
13.25"	12.66"	13"	—	Arm	AK134	—	—	—	—	**5RHY0**	—	—
14.25"	13.66"	14"	—	Arm	AK144	—	—	—	**5RHY2**	**5RHY1**	—	—
AK Series 2 Groove												
2.25"	1.66"	2"	—	Solid	2AK22	**5UHG0**	**5UHG1**	—	—	—	—	—
2.55"	1.96"	2.3"	—	Solid	2AK25	**5UHG2**	**5UHG3**	—	—	—	—	—
2.85"	2.26"	2.6"	—	Solid	2AK28	—	**5UHG4**	—	—	—	—	—
3.45"	2.86"	3.2"	—	Solid	2AK34	—	**5UHG5**	—	—	—	—	—
4.75"	4.16"	4.5"	—	Web	2AK49	—	—	—	—	**52YP86**	—	—
7.25"	6.66"	7"	—	Arm	2AK74	—	—	—	—	**52YP87**	—	—
BK Series Single Groove												
2.15"	—	—	1.8"	Solid	BK20	—	**5RJH1**	**5RJH0**	—	—	—	—
2.65"	—	1.9"	2.3"	Solid	BK25	**5RJH2**	**5RJH4**	**5RJH3**	**5RJH5**	—	—	—
2.85"	—	2.1"	2.5"	Web	BK27	—	**5RJH7**	**5RJH6**	**5RJH8**	—	—	—
2.95"	—	2.2"	2.6"	Web	BK28	—	**5RJJ0**	**5RJH9**	**5RJJ1**	—	—	—
3.15"	—	2.4"	2.8"	Web	BK30	**5RJJ3**	**5RJJ5**	**5RJJ4**	**5RJJ6**	—	—	—
3.35"	—	2.6"	3"	Web	BK32	—	**5RJK0**	**5RJJ9**	**5RJK1**	**5RJJ8**	—	—
3.55"	—	2.8"	3.2"	Web	BK34	—	**5RJK5**	**5RJK4**	**5RJK6**	**5RJK3**	—	—
3.75"	—	3"	3.4"	Web	BK36	—	**5RJL1**	**5RJL0**	**5RJL2**	**5RJK8**	**5RJK9**	—
3.95"	—	3.2"	3.6"	Web	BK40	—	**5RJL7**	**5RJL6**	**5RJL8**	**5RJL4**	**5RJL5**	—
4.25"	—	3.5"	3.9"	Web	BK45	—	**5UHD3**	**5UHD2**	**5UHD4**	**5RJN0**	**5UHD1**	—
4.75"	—	4"	4.4"	Arm	BK50	—	**5UHE0**	**5UHD9**	—	**5UHD7**	**5UHD8**	—
4.95"	—	4.2"	4.6"	Arm	BK52	—	**5UHE5**	**5UHE4**	**5UHE6**	**5UHE2**	**5UHE3**	—
BK Series 2 Groove												
2.65"	—	1.9"	2.3"	Solid	2BK25	—	**5UHH4**	**5UHH3**	**5UHH5**	—	—	—
2.85"	—	2.1"	2.5"	Solid	2BK27	—	**5UHH7**	—	**5UHH8**	**5UHH6**	—	—
2.95"	—	2.2"	2.6"	Solid	2BK28	—	**5UHJ1**	—	—	**5UHH9**	**5UHJ0**	—
2.95"	—	—	2.6"	Solid	2BK28	—	—	—	**5UHJ2**	—	—	—
3.15"	—	2.4"	2.8"	Solid	2BK30	—	**5UHJ6**	**5UHJ5**	**5UHJ7**	**5UHJ3**	**5UHJ4**	—
3.35"	—	2.6"	3"	Solid	2BK32	—	—	—	**5UHK1**	**5UHJ9**	**5UHK0**	—
3.55"	—	2.8"	3.2"	Solid	2BK34	—	**5UHK5**	**5UHK4**	**5UHK6**	—	**5UHK3**	—
3.75"	—	3"	3.4"	Solid	2BK36	—	**5UHL0**	—	**5UHL1**	—	**5UHK8**	**5UHK9**
3.95"	—	3.2"	3.6"	Web	2BK40	—	—	—	—	**5UHL3**	**5UHL4**	—
4.25"	—	3.5"	3.9"	Web	2BK45	—	—	—	—	**5UHL6**	**5UHL7**	**5UHL8**
4.45"	—	3.7"	4.1"	Web	2BK47	—	—	—	—	**5UHN0**	**5UHN1**	—
4.75"	—	4"	4.4"	Web	2BK50	—	—	—	—	—	**5UHN3**	—
4.95"	—	4.2"	4.6"	Web	2BK52	—	—	—	—	—	**5UHN5**	—

** To complete Mfr. Model, add Bore Dia.*

Find more information on Standard Keyway and Setscrew Machining on pages 109, 119



No. 6VPF3

Fenner Drives®

Fixed-Bore Composite V-Belt Pulleys

- Spoke construction
- Sintered metal drive hub
- Standard keyway with 5/16-18 setscrew
- Directly interchangeable with industry standard AK sheaves

High-strength corrosion-resistant PowerMax™ DriveN V-Pulleys are molded of lightweight glass-reinforced nylon.

Outside Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	BORE DIA. 5/8" Item No.	3/4" Item No.	1" Item No.
5.75"	5.5"	AFD59	6VPF3	6VPF4	6VPF5
7.25"	7"	AFD74	6VPF6	6VPF7	6VPF8
8.25"	8"	AFD84	6VPF9	6VPG0	6VPG1
9.25"	9"	AFD94	6VPG2	6VPG3	6VPG4
10.25"	10"	AFD104	6VPG5	6VPG6	6VPG7
10.98"	10.73"	AFD112	6VPG8	6VPG9	6VPH0
12.25"	12"	AFD124	6VPH1	6VPH2	6VPH3

** To complete Mfr. Model, add Bore Dia.*

Web Construction
No. 5UHD5





Solid Construction
No. 5UHJ8



Arm Construction
No. 5RJG0

TB Wood's Incorporated

Bushed-Bore Light-Duty Cast-Iron V-Belt Pulleys

- Efficient and lightweight
- Require QT quick-detachable bushings; order separately on page 115

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model	Item No.
AK Series Single Groove					
6.45"	6.2"	—	Arm	AK66	6YRD4
6.75"	6.5"	—	Arm	AK69	6YRD3
7.25"	7"	—	Arm	AK74	6YRD1
7.75"	7.5"	—	Arm	AK79	6YRD0
9.25"	9"	—	Arm	AK94	6YRD2
BK Series Single Groove					
3.15"	2.4"	2.8"	Solid	BK30	5RJJ2
3.35"	2.6"	3"	Solid	BK32	5RJJ7
3.55"	2.8"	3.2"	Solid	BK34	5RJK2
3.75"	3"	3.4"	Web	BK36	5RJK7
3.95"	3.2"	3.6"	Web	BK40	5RJL3
4.25"	3.5"	3.9"	Web	BK45	5RJL9
4.45"	3.7"	4.1"	Web	BK47	5UHD5
4.75"	4"	4.4"	Web	BK50	5UHD6
4.95"	4.2"	4.6"	Web	BK52	5UHE1
5.25"	4.5"	4.9"	Web	BK55	5UHE7
5.45"	4.7"	5.1"	Web	BK57	5UHE8
5.75"	5"	5.4"	Web	BK60	5UHE9
5.95"	5.2"	5.6"	Web	BK62	5UHF0
6.25"	5.5"	5.9"	Web	BK65	5UHF1
6.45"	5.7"	6.1"	Web	BK67	5UHF2
6.75"	6"	6.4"	Arm	BK70	5UHF3
6.95"	6.2"	6.6"	Arm	BK72	5UHF4
7.25"	6.5"	6.9"	Arm	BK75	5UHF5
7.75"	7"	7.4"	Arm	BK80	5UHF6
8.25"	7.5"	7.9"	Arm	BK85	5UHF7
8.75"	8"	8.4"	Arm	BK90	5UHF8
9.25"	8.5"	8.9"	Arm	BK95	5UHF9
9.75"	9"	9.4"	Arm	BK100	5RJG0
10.25"	9.5"	9.9"	Arm	BK105	5RJG1
10.75"	10"	10.4"	Arm	BK110	5RJG2
11.25"	10.5"	10.9"	Arm	BK115	5RJG3
11.75"	11"	11.4"	Arm	BK120	5RJG4
12.75"	12"	12.4"	Arm	BK130	5RJG5
13.75"	13"	13.4"	Arm	BK140	5RJG6
14.75"	14"	14.4"	Arm	BK150	5RJG7
15.75"	15"	15.4"	Arm	BK160	5RJG8
18.75"	18"	18.4"	Arm	BK190	5RJG9

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model	Item No.
BK Series 2 Groove					
3.35"	2.6"	3"	Solid	2BK32	5UHJ8
3.55"	2.8"	3.2"	Solid	2BK34	5UHK2
3.75"	3"	3.4"	Solid	2BK36	5UHK7
3.95"	3.2"	3.6"	Solid	2BK40	5UHL2
4.25"	3.5"	3.9"	Solid	2BK45	5UHL5
4.45"	3.7"	4.1"	Web	2BK47	5UHL9
4.75"	4"	4.4"	Web	2BK50	5UHN2
4.95"	4.2"	4.6"	Web	2BK52	5UHN4
5.25"	4.5"	4.9"	Web	2BK55	5UHN6
5.45"	4.7"	5.1"	Web	2BK57	5UHN7
5.75"	5"	5.4"	Web	2BK60	5UHN8
5.95"	5.2"	5.6"	Web	2BK62	5UHN9
6.25"	5.5"	5.9"	Arm	2BK65	5UHP0
6.45"	5.7"	6.1"	Arm	2BK67	5UHP1
6.75"	6"	6.4"	Arm	2BK70	5UHP2
7.75"	7"	7.4"	Arm	2BK80	5UHP3
8.75"	8"	8.4"	Arm	2BK90	5UHP4
9.75"	9"	9.4"	Arm	2BK100	5UHG6
10.75"	10"	10.4"	Arm	2BK110	5UHG7
11.75"	11"	11.4"	Arm	2BK120	5UHG8
12.75"	12"	12.4"	Arm	2BK130	5UHG9
13.75"	13"	13.4"	Arm	2BK140	5UHH0
15.75"	15"	15.4"	Arm	2BK160	5UHH1
18.75"	18"	18.4"	Arm	2BK190	5UHH2

24/7 EMERGENCY SERVICE

When you need products in a pinch, count on our After Hours Emergency Service to open the Grainger branch nearest you, any time of day or night (a $50 fee may apply).

> After hours, dial **1-800-CALL-WWG**



Arm Construction
No. 5YKC5



Solid Construction
No. 5YKE1

TB Wood's Incorporated

Quick-Detachable Classical Cast-Iron V-Belt Pulleys

- Fine-grain, high-tensile cast-iron
- Require bushings, sold separately on page 115

For use with single or banded V-belts with either wrapped or cogged construction. Not for use with banded A belts.

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Bushing Req.	Construction	Mfr. Model	Item No.
Single Groove						
3.75"	3"	3.4"	SH	Solid	341B	**5YKD9**
3.95"	3.2"	3.6"	SH	Solid	361B	**5YKE3**
4.55"	3.8"	4.2"	SH	Solid	421B	**6YRD9**
4.75"	4"	4.4"	SH	Solid	441B	**5YKE9**
4.95"	4.2"	4.6"	SDS	Solid	461B	**5YKF1**
5.15"	4.4"	4.8"	SDS	Solid	481B	**5YKF5**
5.35"	4.6"	5"	SDS	Solid	501B	**5YKF8**
5.55"	4.8"	5.2"	SDS	Solid	521B	**10Y268**
5.75"	5"	5.4"	SDS	Solid	541B	**10Y269**
5.95"	5.2"	5.6"	SDS	Solid	561B	**5YKG8**
6.15"	5.4"	5.8"	SDS	Solid	581B	**10Y271**
6.35"	5.6"	6"	SDS	Solid	601B	**6YRE0**
6.55"	5.8"	6.2"	SDS	Solid	621B	**6YRE1**
6.75"	6"	6.4"	SDS	Solid	641B	**6YRE2**
6.95"	6.2"	6.6"	SDS	Solid	661B	**6YRE3**
7.15"	6.4"	6.8"	SDS	Solid	681B	**5YKJ7**
7.35"	6.6"	7"	SDS	Web	701B	**6YRE4**
7.75"	7"	7.4"	SDS	Web	741B	**5YKK6**
8.35"	7.6"	8"	SDS	Web	801B	**6YRE5**
8.95"	8.2"	8.6"	SDS	Web	861B	**6YRE6**
9.75"	9"	9.4"	SDS	Arm	941B	**5YKP0**
11.35"	10.6"	11"	SDS	Arm	1101B	**5YJZ9**
12.75"	12"	12.4"	SDS	Arm	1241B	**6YRD5**
13.95"	13.2"	13.6"	SDS	Arm	1361B	**6YRD6**
15.75"	15"	15.4"	SK	Arm	1541B	**5YKC5**
16.35"	15.6"	16"	SK	Arm	1601B	**6YRD7**
18.75"	18"	18.4"	SK	Arm	1841B	**6YRD8**
25.35"	24.6"	25"	SF	Arm	2501B	**10Y264**
2 Groove						
3.75"	3"	3.4"	SH	Solid	342B	**5YKE0**
3.95"	3.2"	3.6"	SH	Solid	362B	**5YKE4**
4.15"	3.4"	3.8"	SH	Solid	382B	**5YKE5**
4.35"	3.6"	4"	SH	Solid	402B	**5YKE6**
4.55"	3.8"	4.2"	SH	Solid	422B	**5YKE8**
4.75"	4"	4.4"	SH	Solid	442B	**5YKF0**
4.95"	4.2"	4.6"	SDS	Solid	462B	**5YKF2**
5.15"	4.4"	4.8"	SDS	Solid	482B	**5YKF6**
5.35"	4.6"	5"	SDS	Solid	502B	**5YKF9**
5.55"	4.8"	5.2"	SDS	Solid	522B	**5YKG3**
5.75"	5"	5.4"	SDS	Solid	542B	**5YKG6**
5.95"	5.2"	5.6"	SDS	Solid	562B	**5YKG9**
6.15"	5.4"	5.8"	SDS	Solid	582B	**5YKH2**
6.35"	5.6"	6"	SDS	Solid	602B	**5YKH4**
6.55"	5.8"	6.2"	SDS	Solid	622B	**5YKJ0**
6.75"	6"	6.4"	SDS	Solid	642B	**5YKJ3**
6.95"	6.2"	6.6"	SDS	Solid	662B	**5YKJ5**
7.15"	6.4"	6.8"	SDS	Solid	682B	**5YKJ8**
7.35"	6.6"	7"	SK	Solid	702B	**5YKK0**
7.75"	7"	7.4"	SK	Web	742B	**5YKK7**
8.35"	7.6"	8"	SK	Web	802B	**5YKL3**
8.95"	8.2"	8.6"	SK	Web	862B	**5YKN3**
9.35"	8.6"	9"	SK	Arm	902B	**6UDR6**
9.75"	9"	9.4"	SK	Arm	942B	**5YKP1**
11.35"	10.6"	11"	SK	Arm	1102B	**5YKA0**
12.75"	12"	12.4"	SK	Arm	1242B	**5YKA8**
13.95"	13.2"	13.6"	SK	Arm	1362B	**5YKC1**
15.75"	15"	15.4"	SK	Arm	1542B	**5YKC6**
16.35"	15.6"	16"	SK	Arm	1602B	**5YKC8**
18.75"	18"	18.4"	SK	Arm	1842B	**5YKD3**
20.40"	19.6"	20.0"	SF	Arm	2002B	**5YKD4**
25.35"	24.6"	25"	SF	Arm	2502B	**5YKD7**
3 Groove						
3.75"	3"	3.4"	SH	Solid	343B	**5YKE1**
3.95"	3.2"	3.6"	SH	Solid	363B	**6YRF1**
4.15"	3.4"	3.8"	SH	Solid	383B	**6YRF2**
4.35"	3.6"	4"	SH	Solid	403B	**5YKE7**
4.55"	3.8"	4.2"	SH	Solid	423B	**6UDR4**
4.75"	4"	4.4"	SH	Solid	443B	**6UDR5**
4.95"	4.2"	4.6"	SD	Solid	463B	**5YKF3**
5.15"	4.4"	4.8"	SD	Solid	483B	**5YKF7**
5.35"	4.6"	5"	SD	Solid	503B	**5YKG0**
5.55"	4.8"	5.2"	SD	Solid	523B	**5YKG4**
5.75"	5"	5.4"	SD	Solid	543B	**5YKG7**
5.95"	5.2"	5.6"	SD	Solid	563B	**5YKH0**
6.15"	5.4"	5.8"	SD	Solid	583B	**5YKH3**
6.35"	5.6"	6"	SD	Solid	603B	**5YKH5**
6.55"	5.8"	6.2"	SD	Solid	623B	**5YKJ1**
6.95"	6.2"	6.6"	SD	Web	663B	**5YKJ6**
7.15"	6.4"	6.8"	SD	Web	683B	**5YKJ9**
7.35"	6.6"	7"	SK	Solid	703B	**5YKK2**
7.75"	7"	7.4"	SK	Solid	743B	**5YKK8**
8.35"	7.6"	8"	SK	Web	803B	**5YKL5**
8.95"	8.2"	8.6"	SK	Web	863B	**5YKN4**
9.35"	8.6"	9"	SK	Arm	903B	**6UDR7**
9.75"	9"	9.4"	SK	Arm	943B	**5YKP2**
11.35"	10.6"	11"	SK	Arm	1103B	**5YKA1**
12.75"	12"	12.4"	SK	Arm	1243B	**5YKA9**
13.95"	13.2"	13.6"	SK	Arm	1363B	**5YKC2**
15.75"	15"	15.4"	SK	Arm	1543B	**6YRE9**
16.35"	15.6"	16"	SK	Arm	1603B	**10Y261**
18.75"	18"	18.4"	SK	Arm	1843B	**6YRF0**
4 Groove						
3.75"	3"	3.4"	SD	Solid	344B	**39P329**
4.15"	3.4"	3.8"	SD	Solid	384B	**39P330**
4.55"	3.8"	4.2"	SD	Solid	424B	**10Y265**
4.75"	4"	4.4"	SD	Solid	444B	**10Y266**
4.95"	4.2"	4.6"	SD	Solid	464B	**5YKF4**
5.15"	4.4"	4.8"	SD	Solid	484B	**6YRE7**
5.35"	4.6"	5"	SD	Solid	504B	**10Y267**
5.55"	4.8"	5.2"	SD	Solid	524B	**5YKG5**
5.75"	5"	5.4"	SD	Solid	544B	**10Y270**
5.95"	5.2"	5.6"	SD	Solid	564B	**5YKH1**
6.15"	5.4"	5.8"	SD	Solid	584B	**10Y272**
6.35"	5.6"	6"	SD	Solid	604B	**5YKH7**
6.55"	5.8"	6.2"	SD	Solid	624B	**5YKJ2**
6.75"	6"	6.4"	SD	Solid	644B	**6YRE8**
6.95"	6.2"	6.6"	SD	Solid	664B	**10Y292**
7.15"	6.4"	6.8"	SD	Solid	684B	**10Y293**
7.35"	6.6"	7"	SK	Solid	704B	**10Y294**
7.75"	7"	7.4"	SK	Web	744B	**5YKK9**
8.35"	7.6"	8"	SK	Web	804B	**5YKL7**
8.95"	8.2"	8.6"	SK	Web	864B	**10Y295**
9.35"	8.6"	9"	SK	web	904B	**10Y297**
9.75"	9"	9.4"	SK	Web	944B	**5YKP3**
11.35"	10.6"	11"	SK	Arm	1104B	**10Y259**
12.75"	12"	12.4"	SK	Arm	1244B	**5YKC0**
13.95"	13.2"	13.6"	SK	Arm	1364B	**10Y260**
15.75"	15"	15.4"	SF	Arm	1544B	**5YKC7**
16.35"	15.6"	16"	SF	Arm	1604B	**10Y262**
18.75"	18"	18.4"	SF	Arm	1844B	**10Y263**

Get More Online

For our full selection of **V-Belts and V-Belt Pulleys** go to Grainger.com®.



TB Wood's Incorporated

Quick-Detachable Narrow-Wedge Cast-Iron V-Belt Pulleys

- Fine-grain, high-tensile cast iron
- Require bushings; order separately on page 115

Ultra-V pulleys utilize single or banded V-belts with either wrapped or cogged construction.



Solid Construction No. 5YKR4



Web Construction No. 5YLE2

Outside Dia.	3V Belt Pitch Dia.	5V Belt Pitch Dia.	Bushing Req.	Construction	Mfr. Model	Item No.
Single Groove						
2.65"	2.65"	—	JA	Solid	3V2651	**5YKR4**
3.00"	3.00"	—	JA	Solid	3V301	**6UDP0**
3.15"	3.15"	—	JA	Solid	3V3151	**6UDP2**
3.35"	3.35"	—	JA	Solid	3V3.351	**5YKR6**
3.65"	3.65"	—	SH	Solid	3V3651	**6UDP4**
4.12"	4.12"	—	SH	Solid	3V4121	**6UDP5**
4.50"	4.50"	—	SH	Solid	3V451	**6UDP6**
4.75"	4.75"	—	SH	Solid	3V4751	**6UDP7**
5.00"	5.00"	—	SH	Solid	3V501	**6UDP8**
5.30"	5.3"	—	SH	Solid	3V531	**5YKU8**
5.60"	5.60"	—	SH	Solid	3V561	**6UDP9**
6.00"	6.00"	—	SH	Web	3V601	**6UDR0**
6.50"	6.50"	—	SH	Web	3V651	**6UDR1**
6.90"	6.90"	—	SH	Web	3V691	**6UDR2**
8.00"	8.00"	—	SDS	Web	3V801	**6UDR3**
10.60"	10.60"	—	SDS	Arm	3V1061	**6YRF3**
14.00"	14.00"	—	SK	Arm	3V1401	**6YRF4**
19.00"	19.00"	—	SK	Arm	3V1901	**6YRF6**
2 Groove						
2.65"	2.65"	—	JA	Solid	3V2652	**5YKR5**
3.00"	3.00"	—	JA	Solid	3V302	**5YKT0**
3.15"	3.15"	—	JA	Solid	3V3152	**5YKT2**
3.35"	3.35"	—	SH	Solid	3V3.352	**5YKR7**
3.65"	3.65"	—	SH	Solid	3V3652	**5YKT3**
4.12"	4.12"	—	SH	Solid	3V4122	**5YKT6**
4.40"	—	4.40"	SH	Solid	5V442	**10Y277**
4.50"	4.50"	—	SH	Solid	3V452	**5YKT9**
4.65"	—	4.65"	SDS	Solid	5V4652	**10Y280**
4.75"	4.75"	—	SH	Solid	3V4752	**5YKU2**
4.90"	—	4.90"	SDS	Solid	5V492	**5YLA9**
5.00"	5.00"	—	SH	Solid	3V502	**5YKU4**
5.20"	—	5.20"	SDS	Solid	5V522	**10Y285**
5.30"	5.3"	—	SH	Solid	3V532	**5YKU9**
5.50"	—	5.50"	SDS	Solid	5V552	**5YLC0**
5.60"	5.60"	—	SH	Solid	3V562	**5YKV2**
5.90"	—	5.90"	SDS	Solid	5V592	**10Y289**
6.00"	6.00"	—	SH	Web	3V602	**5YKV5**
6.30"	—	6.30"	SK	Solid	5V632	**5YLC3**
6.50"	6.50"	—	SDS	Solid	3V652	**5YKV9**
6.70"	—	6.70"	SK	Solid	5V672	**5YLC6**
6.90"	6.90"	—	SDS	Web	3V692	**5YKW2**
7.10"	—	7.10"	SK	Solid	5V712	**5YLC8**
7.50"	—	7.50"	SK	Solid	5V752	**5YLD3**
8.00"	8.00"	—	SDS	Web	3V802	**5YKW4**
8.00"	—	8.00"	SK	Solid	5V802	**5YLD7**
8.50"	—	8.50"	SK	Web	5V852	**5YLE2**
9.00"	—	9.00"	SK	Web	5V902	**5YLE6**
9.25"	—	9.25"	SK	Web	5V9252	**5YLF0**
9.75"	—	9.75"	SK	Arm	5V9752	**5YLF3**
10.30"	—	10.30"	SK	Arm	5V1032	**5YKW7**
10.60"	10.60"	—	SK	Arm	3V1062	**5YKP7**
10.90"	—	10.90"	SK	Arm	5V1092	**5YKX1**
11.30"	—	11.30"	SK	Arm	5V1132	**5YKX6**
11.80"	—	11.80"	SK	Arm	5V1182	**5YKY0**
12.50"	—	12.50"	SF	Arm	5V1252	**10Y273**
13.20"	—	13.20"	SF	Arm	5V1322	**5YKY7**
14.00"	14.00"	—	SK	Arm	3V1402	**5YKR0**
14.00"	—	14.00"	SF	Arm	5V1402	**5YKZ2**
15.00"	—	15.00"	SF	Arm	5V1502	**39P331**
16.00"	—	16.00"	SF	Arm	5V1602	**10Y274**
18.70"	—	18.70"	SF	Arm	5V1872	**10Y275**
19.00"	19.00"	—	SK	Arm	3V1902	**5YKR2**
25.00"	25.00"	—	SF	Arm	3V2502	**6UDN8**
3 Groove						
2.65"	2.65"	—	JA	Solid	3V2653	**6UDN9**
3.00"	3.00"	—	SH	Solid	3V303	**6UDP1**
3.15"	3.15"	—	SH	Solid	3V3153	**6UDP3**
3.35"	3.35"	—	SH	Solid	3V3.353	**5YKR8**
3.65"	3.65"	—	SH	Solid	3V3653	**5YKT4**
4.12"	4.12"	—	SH	Solid	3V4123	**5YKT7**
4.40"	—	4.40"	SDS	Solid	5V443	**10Y278**
4.50"	4.50"	—	SDS	Solid	3V453	**5YKU0**
4.65"	—	4.65"	SDS	Solid	5V4653	**10Y281**
4.75"	4.75"	—	SDS	Solid	3V4753	**5YKU3**
4.90"	—	4.90"	SDS	Solid	5V493	**10Y283**
5.00"	5.00"	—	SDS	Solid	3V503	**5YKU5**
5.20"	—	5.20"	SDS	Solid	5V523	**10Y286**
5.30"	5.3"	—	SDS	Solid	3V533	**5YKV0**
5.50"	—	5.50"	SDS	Solid	5V553	**5YLC1**
5.60"	5.60"	—	SDS	Solid	3V563	**5YKV3**
5.90"	—	5.90"	SDS	Solid	5V593	**5YLC2**
6.00"	6.00"	—	SDS	Solid	3V603	**5YKV6**
6.30"	—	6.30"	SK	Solid	5V633	**5YLC4**
6.50"	6.50"	—	SDS	Web	3V653	**5YKW0**
6.70"	—	6.70"	SK	Solid	5V673	**5YLC7**
6.90"	6.90"	—	SDS	Web	3V693	**5YKW3**
7.10"	—	7.10"	SF	Solid	5V713	**5YLC9**
7.50"	—	7.50"	SF	Solid	5V753	**5YLD4**
8.00"	8.00"	—	SK	Web	3V803	**5YKW5**
8.00"	—	8.00"	SF	Solid	5V803	**5YLD8**
8.50"	—	8.50"	SF	Solid	5V853	**5YLE3**
9.00"	—	9.00"	SF	Solid	5V903	**5YLE7**
3 Groove (Cont.)						
9.25"	—	9.25"	SF	Web	5V9253	**5YLF1**
9.75"	—	9.75"	SF	Web	5V9753	**5YLF4**
10.30"	—	10.30"	SF	Web	5V1033	**5YKW8**
10.60"	10.60"	—	SK	Arm	3V1063	**5YKP8**
10.90"	—	10.90"	SF	Web	5V1093	**5YKX2**
11.30"	—	11.30"	SF	Arm	5V1133	**5YKX7**
11.80"	—	11.80"	SF	Arm	5V1183	**5YKY1**
12.50"	—	12.50"	E	Arm	5V1253	**5YKY4**
13.20"	—	13.20"	E	Arm	5V1323	**5YKY8**
14.00"	—	14.00"	E	Arm	5V1403	**5YKZ3**
14.00"	14.00"	—	SK	Arm	3V1403	**6YRF5**
15.00"	—	15.00"	E	Arm	5V1503	**39P332**
16.00"	—	16.00"	E	Arm	5V1603	**5YKZ6**
18.70"	—	18.70"	E	Arm	5V1873	**5YLA0**
21.20"	—	21.20"	E	Arm	5V2123	**5YLA1**
28.00"	—	28.00"	E	Arm	5V2803	**5YLA5**
4 Groove						
3.00"	3.00"	—	SH	Solid	3V304	**5YKT1**
3.35"	3.35"	—	SH	Solid	3V3.354	**5YKR9**
3.65"	3.65"	—	SH	Solid	3V3654	**5YKT5**
4.12"	4.12"	—	SH	Solid	3V4124	**5YKT8**
4.40"	—	4.40"	SD	Solid	5V444	**10Y279**
4.50"	4.50"	—	SDS	Solid	3V454	**5YKU1**
4.65"	—	4.65"	SD	Solid	5V4654	**10Y282**
4.90"	—	4.90"	SD	Solid	5V494	**10Y284**
5.00"	5.00"	—	SDS	Solid	3V504	**5YKU6**
5.20"	—	5.20"	SD	Solid	5V524	**10Y287**
5.30"	5.3"	—	SDS	Solid	3V534	**5YKV1**
5.50"	—	5.50"	SD	Solid	5V554	**10Y288**
5.60"	5.60"	—	SDS	Solid	3V564	**5YKV4**
5.90"	—	5.90"	SD	Solid	5V594	**10Y290**
6.00"	6.00"	—	SK	Solid	3V604	**5YKV7**
6.30"	—	6.30"	SK	Solid	5V634	**5YLC5**
6.50"	6.50"	—	SK	Solid	3V654	**5YKW1**
6.70"	—	6.70"	SK	Solid	5V674	**10Y291**
7.10"	—	7.10"	SF	Solid	5V714	**5YLD0**
7.50"	—	7.50"	SF	Solid	5V754	**5YLD5**
8.00"	8.00"	—	SK	Web	3V804	**5YKW6**
8.00"	—	8.00"	E	Solid	5V804	**5YLD9**
8.50"	—	8.50"	E	Solid	5V854	**5YLE4**
9.00"	—	9.00"	E	Solid	5V904	**5YLE8**
9.25"	—	9.25"	E	Solid	5V9254	**5YLF2**
9.75"	—	9.75"	E	Web	5V9754	**5YLF5**
10.30"	—	10.30"	E	Web	5V1034	**5YKW9**
10.60"	10.60"	—	SK	Arm	3V1064	**5YKP9**
10.90"	—	10.90"	E	Web	5V1094	**5YKX3**
11.30"	—	11.30"	E	Web	5V1134	**5YKX8**
11.80"	—	11.80"	E	Web	5V1184	**5YKY2**
12.50"	—	12.50"	E	Web	5V1254	**5YKY5**
13.20"	—	13.20"	E	Arm	5V1324	**5YKY9**
14.00"	14.00"	—	SK	Arm	3V1404	**5YKR1**
14.00"	—	14.00"	E	Arm	5V1404	**5YKZ4**
15.00"	—	15.00"	E	Arm	5V1504	**39P333**
16.00"	—	16.00"	E	Arm	5V1604	**5YKZ7**
18.70"	—	18.70"	E	Arm	5V1874	**10Y276**
19.00"	19.00"	—	SF	Arm	3V1904	**5YKR3**
21.20"	—	21.20"	E	Arm	5V2124	**5YLA2**
23.60"	—	23.60"	F	Arm	5V2364	**5YLA3**
28.00"	—	28.00"	F	Arm	5V2804	**5YLA6**
31.50"	—	31.50"	F	Arm	5V3154	**5YLA8**

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**

Timing Belt Pulleys

PowerDrive

- For XL, L, and H timing belts, see page 106

No-slip positive drive pulleys with wide belt speed and load capacity ranges maintain a constant speed ratio.

Plain Bore—For light-duty applications up to ¼ HP. Aluminum material. Each includes 2 hollow head setscrews; no keyway.

- Standard keyway and setscrew machining guide located on pages 109, 119

Bushed Bore—Steel material. Select ⅜" pulleys for applications up to 4 HP, ½" pulleys for applications up to 20 HP.

- Require bushings; order separately on page 115



Web Construction
No. 6FFT6

No. of Grooves	Bore Dia.	Max. Bore Dia.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Construction	Item No.
Plain Bore, ⅛" Pitch for ¼", ⅜" Wide XL Timing Belts								
10	3/16"	1/4"	0.637"	0.617"	7/8"	3/16"	Solid	6FFR3
11	3/16"	5/16"	0.700"	0.680"	15/16"	3/16"	Solid	6FFR4
12	3/16"	5/16"	0.764"	0.744"	1"	3/16"	Solid	6FFR5
14	1/4"	3/8"	0.891"	0.871"	1 1/8"	3/16"	Solid	6FFR6
15	1/4"	3/8"	0.955"	0.935"	1 3/16"	3/16"	Solid	6FFR7
16	1/4"	7/16"	1.019"	0.999"	1 1/4"	3/16"	Solid	6FFR8
18	1/4"	1/2"	1.146"	1.126"	1 3/8"	3/16"	Solid	6FFR9
20	1/4"	9/16"	1.273"	1.253"	1 1/2"	3/16"	Solid	6FFT0
21	1/4"	5/8"	1.337"	1.317"	1 9/16"	3/16"	Solid	6FFT1
22	1/4"	5/8"	1.401"	1.318"	1 5/8"	3/16"	Solid	6FFT2
24	1/4"	5/8"	1.528"	1.508"	1 3/4"	3/16"	Solid	6FFT3
28	1/4"	3/4"	1.783"	1.763"	2"	3/16"	Solid	6FFT4
30	5/16"	13/16"	1.910"	1.890"	2 1/8"	3/16"	Solid	6FFT5
32	5/16"	1"	2.037"	2.017"	—	3/16"	Web	6FFT6
36	5/16"	1"	2.295"	2.272"	—	3/16"	Web	6FFT7
40	5/16"	1"	2.456"	2.526"	—	3/16"	Web	6FFT8
42	5/16"	1"	2.674"	2.654"	—	3/16"	Web	6FFT9
44	5/16"	1"	2.801"	2.781"	—	3/16"	Web	6FFV0
48	5/16"	1"	3.056"	3.036"	—	3/16"	Web	6FFV1
60	3/8"	1"	3.820"	3.800"	—	3/16"	Web	6FFV2
72	3/8"	1"	4.584"	4.564"	—	3/16"	Web	6FFV3

No. of Grooves	Bushing Req.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Construction	Item No.
Bushed Bore, ⅜" Pitch for ½" Wide L Timing Belts							
18	G	2.149"	2.119"	2 3/8"	3/4"	Solid	6FFV4
19	G	2.268"	2.238"	2 5/8"	3/4"	Solid	6FFV5
20	G	2.387"	2.357"	2 5/8"	3/4"	Solid	6FFV6
21	G	2.507"	2.477"	2 3/4"	3/4"	Solid	6FFV7
22	G	2.626"	2.596"	3"	3/4"	Solid	6FFV8
24	H, QT	2.865"	2.835"	3 1/4"	3/4"	Solid	6FFV9
26	H, QT	3.104"	3.074"	3 5/16"	3/4"	Solid	6GEG6
28	H, QT	3.342"	3.312"	3 5/16"	3/4"	Solid	6GEG7
30	H, QT	3.581"	3.551"	3 3/4"	3/4"	Solid	6GEG8
32	H, QT	3.820"	3.790"	4 1/16"	3/4"	Solid	6GEG9
36	H, QT	4.297"	4.267"	4 17/32"	3/4"	Solid	6GEH0
40	H, QT	4.775"	4.745"	5"	3/4"	Solid	6GEH1
44	H, QT	5.252"	5.222"	5 1/2"	3/4"	Solid	6GEH2
48	H, QT	5.730"	5.700"	6"	3/4"	Solid	6GEH3
60	H, QT	7.162"	7.132"	—	3/4"	Web	6GEH4
Bushed Bore, ⅜" Pitch for 1" Wide L Timing Belts							
18	G	2.149"	2.119"	2 3/8"	1 1/4"	Solid	6GEH5
19	G	2.268"	2.238"	2 5/8"	1 1/4"	Solid	6GEH6
20	G	2.387"	2.357"	2 5/8"	1 1/4"	Solid	6GEH7
21	G	2.507"	2.477"	2 3/4"	1 1/4"	Solid	6GEH8
22	G	2.626"	2.596"	3"	1 1/4"	Solid	6GEH9
24	H, QT	2.865"	2.835"	3 1/4"	1 1/4"	Solid	6GEJ0
26	H, QT	3.104"	3.074"	3 5/16"	1 1/4"	Solid	6GEJ1
28	H, QT	3.342"	3.312"	3 5/16"	1 1/4"	Solid	6GEJ2
30	H, QT	3.510"	3.551"	3 3/4"	1 1/4"	Solid	6GEJ3
32	H, QT	3.820"	3.790"	4 1/16"	1 1/4"	Solid	6GEJ4
36	H, QT	4.297"	4.267"	4 17/32"	1 1/4"	Solid	6GEJ5
36	P1	4.297"	4.267"	4 17/32"	1 1/4"	Solid	6GEJ6
40	H, QT	4.775"	4.745"	5"	1 1/4"	Solid	6GEJ7
44	H, QT	5.252"	5.222"	5 1/2"	1 1/4"	Solid	6GEJ8
48	H, QT	5.730"	5.700"	6"	1 1/4"	Solid	6GEJ9
60	H, QT	7.162"	7.132"	—	1 1/4"	Web	6GEK0
Bushed Bore, ½" Pitch for 1" Wide H Timing Belts							
14	G	2.228"	2.174"	2 3/8"	1 1/4"	Solid	6GEK1
16	G	2.546"	2.492"	2 3/4"	1 1/4"	Solid	6GEK2
18	H, QT	2.856"	2.811"	3 1/4"	1 1/4"	Solid	6GEK3
20	H, QT	3.183"	3.129"	3 5/16"	1 1/4"	Solid	6GEK4
22	H, QT	3.501"	3.447"	3 3/4"	1 1/4"	Solid	6GEK5
22	P1	3.501"	3.447"	3 3/4"	1 1/4"	Solid	6GEK6
24	H, QT	3.820"	3.766"	4 1/16"	1 1/4"	Solid	6GEK7
24	P1	3.820"	3.766"	4 1/16"	1 1/4"	Solid	6GEK8
26	H, QT	4.138"	4.084"	4 3/8"	1 1/4"	Solid	6GEK9
28	H, QT	4.456"	4.402"	4 11/16"	1 1/4"	Solid	6GEL0
30	H, QT	4.775"	4.721"	5"	1 1/4"	Solid	6GEL1
30	P1	4.775"	4.721"	5"	1 1/4"	Solid	6GEL2
32	Q1	5.093"	5.093"	5 9/16"	1 1/4"	Solid	6GEL3
36	Q1	5.730"	5.676"	6"	1 1/4"	Solid	6GEL4
40	Q1	6.366"	6.312"	6 9/16"	1 1/4"	Solid	6GEL5
44	Q1	7.003"	6.949"	7 3/16	1 1/4"	Solid	6GEL6
48	Q1	7.639"	7.585"	8"	1 1/4"	Solid	6GEL7
60	Q1	9.549"	9.495"	—	1 1/4"	Web	6GEL8
72	Q1	11.459"	11.405"	—	1 1/4"	Web	6GEL9



Continental

ContiTech

Timing Belt Pulleys

- 8mm pitch
- Timing belts sold separately on page 107
- Bushings sold separately on page 115

Positive drive-tooth engagement eliminates slippage and speed variation. Cast-iron pulleys provide uniform speed transfer.

Note: Additional sizes of Continental ContiTech Drive Timing Belt Pulleys are available on Grainger.com®.

No. of Grooves	Pitch Dia.	Outside Dia.	12mm WIDE Bushing Required	12mm WIDE Item No.	21mm WIDE Bushing Required	21mm WIDE Item No.	36mm WIDE Bushing Required	36mm WIDE Item No.
Bushed Bore For Use With Falcon Pd® and ContiTech Synchrochain® Timing Belts								
22	56.023mm	54.42mm	1008	2UWF4	1008	3PDV4	—	—
25	63.662mm	62.06mm	1108	2UWF5	1108	2UWF6	—	—
26	66.209mm	64.61mm	1108	2UWF7	1108	2UWF8	—	—
27	68.755mm	67.37mm	—	—	1108	2UWF9	—	—
28	71.302mm	69.70mm	1108	2UWG1	1108	2UWG2	—	—
30	76.395mm	74.79mm	1108	2UWG3	1610	2UWG4	1615	3PDW4
32	81.488mm	79.89mm	1210	2UWG7	1610	2UWG8	1615	2UWG9
33	84.034mm	82.65mm	—	—	1610	2UWH1	—	—
34	86.581mm	84.98mm	1610	2UWH2	1610	2UWH3	1615	2UWH4
36	91.674mm	90.07mm	1610	2UWH6	1610	2UWH7	1615	2UWH8
38	96.767mm	95.17mm	1610	2UWJ1	1610	2UWJ2	1615	2UWJ3
40	101.860mm	100.26mm	1610	2UWJ4	1610	2UWJ5	2012	2UWJ6
42	106.953mm	105.58mm	—	—	1610	2UWJ8	—	—
45	114.592mm	112.99mm	2012	2UWJ9	2012	2UWK1	2012	2UWK2
48	122.231mm	120.63mm	2012	2UWK3	2012	2UWK4	2012	2UWK5
50	127.324mm	127.32mm	2012	2UWK6	2012	2UWK7	2012	2UWK8
53	134.964mm	133.59mm	—	—	2012	2UWK9	—	—
56	142.603mm	141.00mm	2012	2UWL1	2012	2UWL2	2517	2UWL3
60	152.789mm	151.19mm	2012	2UWL4	2517	2UWL5	2517	2UWL6
75	190.986mm	189.39mm	2012	2UWL8	2517	2UWL9	3020	2UWN1
80	203.719mm	202.12mm	2012	2UWN2	3020	2UWN3	3020	2UWN4
112	285.200mm	283.80mm	—	—	—	—	3020	3PDU9
140	356.500mm	355.10mm	—	—	—	—	3020	3PDV2

No. of Grooves	Pitch Dia.	Outside Dia.	20mm WIDE Bushing Required	20mm WIDE Item No.	30mm WIDE Bushing Required	30mm WIDE Item No.	50mm WIDE Bushing Required	50mm WIDE Item No.
Bushed Bore For Use With Hawk Pd® and Dual Hi-Performance Pd® Timing Belts								
24	61.120mm	59.74mm	JA	3PEC1	JA	3PED1	—	—
28	71.300mm	70.08mm	H, QT	3PEC2	—	—	—	—
30	76.390mm	75.13mm	H, QT	3PEC3	H, QT	2UWN5	—	—
32	81.484mm	80.16mm	—	—	H, QT	2UWN6	—	—
34	86.580mm	85.22mm	SH	3PEC4	SH	2UWN7	SH	3PED4
36	91.670mm	90.30mm	SH	3PEC5	SH	2UWN8	SH	3PED5
38	96.774mm	95.40mm	—	—	SH	2UWN9	—	—
40	101.860mm	100.48mm	SH	3PEC6	SH	2UWP1	SH	3PED6
44	112.040mm	110.67mm	—	—	SDS	2UWP2	—	—
48	122.230mm	120.85mm	SDS	3PEC7	SDS	3PED2	SD	3PED7
56	142.600mm	141.22mm	SDS	3PEC8	SDS	2UWP3	SK	3PED8
64	162.967mm	161.59mm	—	—	SK	2UWP4	SK	3PED9
72	183.350mm	181.97mm	SDS	3PEC9	SK	2UWP5	SK	3PEF1
80	203.708mm	202.34mm	—	—	SK	2UWP6	SF	3PEF2

No. of Grooves	Bore Dia.	Max. Bore Dia.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Item No.
Plain Bore For Use With Falcon Pd® and ContiTech Synchrochain® Timing Belts							
25	½"	1¼"	63.662mm	62.06mm	—	36mm	3PDV5
28	½"	1¼"	71.302mm	69.70mm	—	36mm	3PDV9
Plain Bore For Use With Hawk Pd® and Dual Hi-Performance Pd® Timing Belts							
22	½"	1 3/16"	56.020mm	54.66mm	65.00mm	28.6mm	3PEA9
28	¾"	1⅜"	71.300mm	70.08mm	80.00mm	60.5mm	3PED3


QT Series


F Series

TB Wood's Incorporated

Quick-Detachable Bushings

- Taper: ¾" per ft.

Split through flange and taper to provide a true clamp. All series except for JA and QT have a setscrew over the key to help maintain the bushing's position until the screws are tightened. For use with sheaves, sprockets, and pulleys.

Bushing Series/ Bore Dia.	Item No.
QT	
½"	5UHZ6
5/8"	5UJA4
¾"	5UJA2
7/8"	5UJA5
15/16"	5UHZ9
1"	5UHZ2
1 1/8"	5UHZ5
1 3/16"	5UHZ7
1 1/4"	5UHZ4
1 3/8"	5UHZ8
1 7/16"	5UJA0
1 1/2"	5UHZ3
14mm	41D905
19mm	41D906
24mm	5UJA1
28mm	41D907
35mm	5UJA3
38mm	41D908
JA	
9/16"	5YLG6
5/8"	5YLG4
¾"	5YLG3
7/8"	5YLG5
1"	5YLF7
1 1/8"	5YLF9
1 3/16"	5YLG0
1 1/4"	5YLF8
19mm	41D909
20mm	5YLG1
24mm	41D910
25mm	5YLG2
28mm	41D911
SH	
½"	41D896
5/8"	10Y307
¾"	5YLK9
7/8"	5YLL0
15/16"	41D897
1"	5YLK1
1 1/8"	5YLK4
1 1/4"	5YLK3
1 3/8"	5YLK5
1 7/16"	5YLK7
1 1/2"	5YLK2
1 5/8"	5YLK6
24mm	5YLK8
28mm	41D912
SDS	
½"	41D885
5/8"	10Y305
¾"	5YLH8
7/8"	10Y306
15/16"	41D887
1"	5YLH1
1 1/8"	5YLH4
1 3/16"	41D886
1 1/4"	5YLH3
1 3/8"	5YLH5
1 7/16"	5YLH7
1 1/2"	5YLH2
1 5/8"	5YLH6
1 11/16"	10Y302
1 7/8"	10Y304
1 15/16"	10Y303
24mm	41D913
28mm	41D914
38mm	41D915
42mm	41D916

Bushing Series/ Bore Dia.	Item No.
SD	
½"	41D876
5/8"	41D883
¾"	41D882
7/8"	41D884
15/16"	41D880
1"	41D875
1 1/8"	41D879
1 3/16"	10Y301
1 1/4"	41D878
1 3/8"	5YLG7
1 7/16"	5YLG9
1 1/2"	41D877
1 9/16"	41D881
1 5/8"	5YLG8
1 11/16"	10Y298
1 7/8"	5YLH0
1 15/16"	10Y299
24mm	41D917
28mm	41D918
38mm	41D919
42mm	41D920
SK	
¾"	41D903
7/8"	41D904
15/16"	41D899
1"	10Y308
1 1/8"	41D898
1 3/16"	10Y309
1 1/4"	5YLL3
1 5/16"	10Y310
1 3/8"	5YLL6
1 7/16"	5YLL8
1 1/2"	5YLL2
1 9/16"	41D901
1 5/8"	5YLL7
1 11/16"	5YLL1
1 3/4"	5YLL5
1 7/8"	5YLL9
1 15/16"	5YLL4
2"	41D902
2 1/8"	5YLN0
2 3/16"	5YLN1
2 7/16"	5YLN2
2 1/2"	20LU82
24mm	41D921
28mm	41D922
38mm	41D923
42mm	41D924
48mm	41D925
55mm	41D926

Bushing Series/ Bore Dia.	Item No.
SF	
15/16"	41D892
1"	41D888
1 1/8"	41D890
1 3/16"	41D891
1 1/4"	41D889
1 3/8"	5YLJ3
1 7/16"	38H450
1 1/2"	5YLJ0
1 5/8"	41D894
1 5/8"	41D893
1 11/16"	5YLH9
1 3/4"	5YLJ2
1 7/8"	5YLJ4
1 15/16"	5YLJ1
2"	5YLJ5
2 1/8"	5YLJ6
2 3/16"	5YLJ7
2 1/4"	41D895
2 3/8"	5YLJ8
2 7/16"	5YLJ9
28mm	41D927
38mm	41D928
42mm	41D929
48mm	41D930
55mm	41D931
E	
1 5/8"	5YLN6
1 11/16"	5YLN3
1 3/4"	5YLN5
1 7/8"	5YLN7
1 15/16"	5YLN4
2"	5YLN8
2 1/8"	5YLP3
2 3/16"	5YLP4
2 1/4"	5YLP1
2 3/8"	5YLP6
2 7/16"	5YLP7
2 1/2"	5YLP0
2 11/16"	5YLN9
2 3/4"	5YLP5
2 7/8"	5YLP8
2 15/16"	5YLP2
3 3/8"	5YLP9
3 7/16"	5YLR0
38mm	41D932
42mm	41D933
45mm	5YLR1
48mm	41D934
55mm	41D935
F	
1 1/4"	41D860
1 3/8"	41D863
1 7/16"	41D865
1 1/2"	41D859
1 5/8"	41D864
2 15/16"	5YLR6
3"	5YLT4
3 1/8"	41D869
3 3/16"	41D871
3 1/4"	5YLT6
3 3/8"	5YLT8
3 7/16"	5YLT9
3 1/2"	5YLT5
3 5/8"	41D873
3 11/16"	41D870
3 3/4"	41D872
3 7/8"	41D874
3 15/16"	5YLT7
48mm	41D936
55mm	41D937
60mm	5YLU0
80mm	5YLU1

TRITAN

1008 Series



Taper-Lock® Bushings

For use with sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. Include set screws.

Bushing Series/ Bore Dia.	Item No.
1008	
½"	45PW98
9/16"	45PX06
5/8"	45PX04
11/16"	45PW99
¾"	45PX03
7/8"	45PX05
15/16"	45PX02
1108	
½"	45PX10
9/16"	45PX17
5/8"	45PX15
¾"	45PX14
13/16"	45PX12
7/8"	45PX16
15/16"	45PX13
1210	
½"	45PX23
5/8"	45PX28
¾"	45PX27
13/16"	45PX25
7/8"	45PX29
1"	45PX22
1 1/8"	45PX20
1 3/16"	45PX21
1 1/4"	45PX19
1610	
½"	45PX55
5/8"	45PX60
¾"	45PX59
13/16"	45PX57
7/8"	45PX61
15/16"	45PX58
1"	45PX54
1 1/16"	45PX44
1 1/8"	45PX47
1 3/16"	45PX48
1 1/4"	45PX46
1 5/16"	45PX50
1 3/8"	45PX49
1 7/16"	45PX52
1 1/2"	45PX45
1 9/16"	45PX53
1 5/8"	45PX51

Bushing Series/ Bore Dia.	Item No.
1615	
½"	45PX74
5/8"	45PX79
7/8"	45PX80
1"	45PX73
1 1/16"	45PX63
1 1/8"	45PX66
1 3/16"	45PX67
1 1/4"	45PX65
1 3/8"	45PX68
1 7/16"	45PX71
1 1/2"	45PX64
1 5/8"	45PX70
2012	
5/8"	45PY04
1 1/16"	45PX98
¾"	45PY03
7/8"	45PY05
1 9/16"	45PY01
1"	45PX96
1 1/16"	45PX82
1 1/8"	45PX85
1 3/16"	45PX89
1 1/4"	45PX84
1 5/16"	45PX92
1 3/8"	45PX91
1 7/16"	45PX94
1 1/2"	45PX83
1 5/8"	45PX93
1 11/16"	45PX86
1 3/4"	45PX90
1 13/16"	45PX87
1 7/8"	45PX95
1 15/16"	45PX88
2"	45PY02

Bushing Series/ Bore Dia.	Item No.
2517	
¾"	45PY36
7/8"	45PY38
15/16"	45PY26
1"	45PY22
1 1/8"	45PY10
1 3/16"	45PY14
1 1/4"	45PY09
1 3/8"	45PY16
1 7/16"	45PY19
1 1/2"	45PY08
1 5/8"	45PY18
1 11/16"	45PY11
1 3/4"	45PY15
1 7/8"	45PY20
1 15/16"	45PY13
2"	45PY35
2 1/16"	45PY27
2 1/8"	45PY30
2 3/16"	45PY31
2 1/4"	45PY29
2 3/8"	45PY32
2 7/16"	45PY34
2 1/2"	45PY28
3020	
1"	45PY83
1 1/4"	45PY70
1 3/8"	45PY77
1 7/16"	45PY80
1 1/2"	45PY69
1 5/8"	45PY79
1 3/4"	45PY76
1 7/8"	45PY81
1 15/16"	45PY74
2"	45PZ01
2 1/8"	45PY88
2 3/16"	45PY92
2 1/4"	45PY87
2 3/8"	45PY94
2 7/16"	45PY97
2 1/2"	45PY86
2 5/8"	45PY96
2 3/4"	45PY93
2 15/16"	45PY91
3"	45PZ02

Split-Taper Bushings

PowerDrive

- Black oxide finish
- Taper: ¾" per ft.


B Series

Feature solid flange. External key on bushing provides positive drive, except series G. For use with sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. Include cap screws.

Bushing Series/ Bore Dia.	Item No.
B	
½"	6PTT4
5/8"	6PTU3
¾"	6PTU2
13/16"	6PTT5
7/8"	6PTU4
15/16"	6PTT6
1"	6PTP9
1 1/16"	6PTR0
1 1/8"	6PTR3
1 3/16"	6PTR6
1 1/4"	6PTR2
1 5/16"	6PTR9
1 3/8"	6PTR8
1 7/16"	6PTT1
1 1/2"	6PTR1
1 9/16"	6PTT3
1 5/8"	6PTT0
1 11/16"	6PTR4
1 3/4"	6PTR7
1 7/8"	6PTT2
1 15/16"	6PTR5
2"	6PTT7
2 1/8"	6PTT9
2 3/16"	6PTU0
2 1/4"	6PTT8
2 3/8"	6PTU1

Bushing Series/ Bore Dia.	Item No.
G	
3/8"	6PTU9
½"	6PTU6
5/8"	6PTV0
¾"	6PTU8
7/8"	6PTV1
15/16"	6PTU7
1"	6PTU5
P1	
5/8"	6PTV9
¾"	6PTV8
7/8"	6PTW0
1"	6PTV2
1 1/8"	6PTW1
1 3/16"	6PTV5
1 1/4"	6PTV4
1 3/8"	6PTW2
1 7/16"	6PTV7
1 1/2"	6PTV3
1 5/8"	6PTV6
P2	
1 1/8"	6PTW3
1 3/8"	6PTW4

Bushing Series/ Bore Dia.	Item No.
Q1	
¾"	6PTX4
7/8"	6PTX5
1"	6PTW5
1 1/8"	6PTX6
1 3/16"	6PTX8
1 1/4"	6PTW7
1 3/8"	6PTX9
1 7/16"	6PTY1
1 1/2"	6PTW6
1 9/16"	6PTX1
1 5/8"	6PTY0
1 11/16"	6PTX7
1 3/4"	6PTW9
1 7/8"	6PTX0
1 15/16"	6PTW8
2 1/8"	6PTX2
2 3/8"	6PTX3



Standard
No. 2YDW8



Heavy
No. 1YGT2



Conveyor
No. 2YDY3

Roller Chain and Individual Links

Hardened carbon steel construction. Fully interchangeable with other ANSI roller chains. Factory preloading, lube-grooved bushings, and prelubrication minimize wear elongation. 1 connecting link included for every 10 ft. of chain. Meets or exceeds all ANSI requirements.

Additional sizes and styles of roller chain are available on Grainger.com®.

Lube-Free Lambda®—Oil-impregnated bushings, coated pins, and solid rollers. Maximum allowable load is the same as standard roller chain.

British Standard—Conforms to ISO 606, DIN 8187, and BS 2280 dimensions.

Heavy—Chain features thicker side plates for increased working load and fatigue resistance.

Conveyor—Designed specifically for transport applications such as material handling, packaging, road building machinery, commercial bakeries, bottlers, and farm equipment.

Connecting, Offset, and Roller Links—Connecting links join 2 ends of chain together. Sizes 25 to 60 assemble with spring clips. Size 80 and higher, as well as Heavy and Curved connecting links, assemble with cotter pins.

Offset links are used for strands when an odd number of chain links is required.

Roller links serve as replacements for damaged roller links.

ANSI Chain Size	Pitch	Roller Bushing Width	Roller Dia.	Overall Width	Max. Allowable Load	Tensile Strength	L	CHAIN Item No.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.	ROLLER LINKS Item No.	ROLLER LINKS Pkg. Qty.
Standard Riveted, Single Strand														
Dayton®														
35	⅜"	0.188"	0.200"	0.514"	480 lb.	1760 lb.	10 ft.	**2YDW4**	**2YEA5**	5	**2YEA6**	5	**2YEA7**	5
35	⅜"	0.188"	0.200"	0.514"	480 lb.	1760 lb.	100 ft.	**2YDX5**	**2YEA5**	5	**2YEA6**	5	**2YEA7**	5
40	½"	0.312"	0.312"	0.695"	810 lb.	3125 lb.	10 ft.	**2YDW5**	**2YEA8**	5	**2YEA9**	5	**2YEC1**	5
40	½"	0.312"	0.312"	0.695"	810 lb.	3125 lb.	100 ft.	**2YDX6**	**2YEA8**	5	**2YEA9**	5	**2YEC1**	5
41	½"	0.250"	0.306"	0.587"	470 lb.	1500 lb.	10 ft.	**2YDW6**	**2YEC2**	5	**2YEC3**	5	**2YEC4**	5
41	½"	0.250"	0.306"	0.587"	470 lb.	1500 lb.	100 ft.	**2YDX7**	**2YEC2**	5	**2YEC3**	5	**2YEC4**	5
50	⅝"	0.375"	0.400"	0.851"	1430 lb.	4880 lb.	10 ft.	**2YDW7**	**2YEC5**	5	**2YEC6**	5	**2YEC7**	5
50	⅝"	0.375"	0.400"	0.851"	1430 lb.	4880 lb.	100 ft.	**2YDX8**	**2YEC5**	5	**2YEC6**	5	**2YEC7**	5
60	¾"	0.500"	0.469"	1.049"	1980 lb.	7030 lb.	10 ft.	**2YDW8**	**2YEC8**	5	**2YEC9**	5	**2YED1**	5
60	¾"	0.500"	0.469"	1.049"	1980 lb.	7030 lb.	100 ft.	**2YDX9**	**2YEC8**	5	**2YEC9**	5	**2YED1**	5
80	1"	0.625"	0.625"	0.386"	3300 lb.	12,500 lb.	10 ft.	**2YDW9**	**2YED2**	1	**2YED3**	1	**2YED4**	1
100	1¼"	0.750"	0.750"	1.704"	5070 lb.	19,531 lb.	10 ft.	**2YDX1**	**2YED5**	1	**2YED6**	1	**2YED7**	1
120	1½"	1.000"	0.875"	2.122"	6790 lb.	28,125 lb.	10 ft.	**2YDX2**	**2YED8**	1	**2YEE2**	1	**2YEE5**	1
140	1¾"	1.000"	1.000"	2.269"	8900 lb.	38,280 lb.	10 ft.	**2YDX3**	**2YED9**	1	**2YEE3**	1	**2YEE6**	1
160	2"	1.250"	1.125"	2.691"	11,880 lb.	50,000 lb.	10 ft.	**2YDX4**	**2YEE1**	1	**2YEE4**	1	**2YEE7**	1
Tsubaki														
35	⅜"	0.188"	0.200"	0.500"	480 lb.	2530 lb.	10 ft.	**2W092**	**5X290**	5	**5X291**	5	**5X292**	5
35	⅜"	0.188"	0.200"	0.500"	480 lb.	2530 lb.	100 ft.	**2W192**	**5X290**	5	**5X291**	5	**5X292**	5
40	½"	0.312"	0.312"	0.717"	810 lb.	4290 lb.	10 ft.	**2W093**	**5X293**	5	**5X294**	5	**5X295**	5
40	½"	0.312"	0.312"	0.717"	810 lb.	4290 lb.	100 ft.	**2W193**	**5X293**	5	**5X294**	5	**5X295**	5
41	½"	0.250"	0.306"	0.579"	500 lb.	2640 lb.	10 ft.	**2W094**	**5X296**	5	**5X297**	5	**5X298**	5
41	½"	0.250"	0.306"	0.579"	500 lb.	2640 lb.	100 ft.	**2W194**	**5X296**	5	**5X297**	5	**5X298**	5
50	⅝"	0.375"	0.400"	0.878"	1430 lb.	7050 lb.	10 ft.	**2W095**	**5X299**	5	**5X300**	5	**5X301**	5
50	⅝"	0.375"	0.400"	0.878"	1430 lb.	7050 lb.	100 ft.	**2W195**	**5X299**	5	**5X300**	5	**5X301**	5
60	¾"	0.500"	0.469"	1.087"	1980 lb.	9920 lb.	10 ft.	**2W096**	**5X302**	5	**5X303**	5	**5X304**	5
60	¾"	0.500"	0.469"	1.087"	1980 lb.	9920 lb.	100 ft.	**3W098**	**5X302**	5	**5X303**	5	**5X304**	5
80	1"	0.625"	0.625"	1.398"	3300 lb.	17,640 lb.	10 ft.	**2W221**	**6X529**	1	**6X530**	1	**6X531**	1
100	1¼"	0.750"	0.750"	1.678"	5070 lb.	26,460 lb.	10 ft.	**2W222**	**6X532**	1	**6X533**	1	**6X534**	1
120	1½"	1.000"	0.875"	2.118"	6830 lb.	37,480 lb.	10 ft.	**6L481**	**6L490**	1	**6L493**	1	**6L496**	1
140	1¾"	1.000"	1.000"	2.307"	9040 lb.	48,510 lb.	10 ft.	**6L482**	**6L491**	1	**6L494**	1	**6L497**	1
160	2"	1.250"	1.125"	2.705"	11,900 lb.	60,630 lb.	10 ft.	**6L483**	**6L492**	1	**6L495**	1	**6L498**	1
Standard Riveted, Double Strand														
Dayton®														
35-2	⅜"	0.188"	0.200"	0.898"	805 lb.	3520 lb.	10 ft.	**2YDY5**	**2YEE8**	5	**2YEF5**	5	—	—
40-2	½"	0.312"	0.312"	1.247"	1360 lb.	6250 lb.	10 ft.	**2YDY6**	**2YEE9**	5	**2YEF6**	5	—	—
50-2	⅝"	0.375"	0.400"	1.571"	2360 lb.	9770 lb.	10 ft.	**2YDY7**	**2YEF1**	5	**2YEF7**	5	—	—
60-2	¾"	0.500"	0.469"	1.961"	3300 lb.	14,060 lb.	10 ft.	**2YDY8**	**2YEF2**	5	**2YEF8**	5	—	—
80-2	1"	0.625"	0.625"	2.543"	5600 lb.	25,000 lb.	10 ft.	**2YDY9**	**2YEF3**	1	**2YEF9**	1	—	—
100-2	1¼"	0.750"	0.750"	3.075"	8570 lb.	39,062 lb.	10 ft.	**2YDZ1**	**2YEF4**	1	**2YEG1**	1	—	—
Tsubaki														
35-2	⅜"	0.188"	0.200"	0.898"	810 lb.	5060 lb.	10 ft.	**6L484**	**6L499**	5	**6L505**	5	—	—
40-2	½"	0.312"	0.312"	1.283"	1370 lb.	8580 lb.	10 ft.	**6L485**	**6L500**	5	**6L506**	5	—	—
50-2	⅝"	0.375"	0.400"	1.595"	2430 lb.	14,100 lb.	10 ft.	**6L486**	**6L501**	5	**6L507**	5	—	—
60-2	¾"	0.500"	0.469"	1.988"	3360 lb.	19,840 lb.	10 ft.	**6L487**	**6L502**	5	**6L508**	5	—	—
80-2	1"	0.625"	0.625"	2.552"	5610 lb.	35,280 lb.	10 ft.	**6L488**	**6L503**	1	**6L509**	1	—	—
100-2	1¼"	0.750"	0.750"	3.090"	8610 lb.	52,920 lb.	10 ft.	**6L489**	**6L504**	1	**6L510**	1	—	—
Lube-Free Lambda®														
40	½"	0.297"	0.312"	0.755"	816 lb.	4300 lb.	10 ft.	**1YGP9**	**1YJK8**	5	**1YJK9**	5	—	—
50	⅝"	0.365"	0.400"	0.913"	1430 lb.	7050 lb.	10 ft.	**1YGR4**	**1YJX4**	5	**1YJX5**	5	—	—
British Standard														
Tsubaki														
06B	⅜"	0.225"	0.250"	0.551"	—	2310 lb.	10 ft.	**1YGZ8** *	**1YGN3**	5	**1YGN4**	5	—	—
08B	½"	0.305"	0.335"	0.724"	—	4410 lb.	10 ft.	**1YGZ9**	**1YGN5**	5	—	—	—	—
10B	⅝"	0.380"	0.400"	0.819"	—	5840 lb.	10 ft.	**1YHA1**	**1YGN7**	5	**1YGN8**	5	—	—
12B	¾"	0.460"	0.475"	0.953"	—	7500 lb.	10 ft.	**1YHA2**	**1YGN9**	5	**1YGP1**	5	—	—
Heavy Riveted														
Tsubaki														
60H	¾"	0.500"	0.469"	1.252"	2200 lb.	9920 lb.	10 ft.	**1YGT2**	**1YKK8**	5	**1YKK9**	5	**1YKL1**	5
80H	1"	0.625"	0.625"	1.543"	3630 lb.	17,640 lb.	10 ft.	**1YGT7**	**1YKV8**	1	**1YKV9**	1	**1YKW1**	1
Conveyor														
Dayton®														
C2040	1"	0.312"	0.312"	0.697"	534 lb.	3125 lb.	10 ft.	**2YDY1**	**2YEG2**	1	**2YEG6**	1	**2YEH1**	1
C2050	1¼"	0.375"	0.400"	0.856"	721 lb.	4880 lb.	10 ft.	**2YDY2**	**2YEG3**	1	**2YEG7**	1	**2YEH2**	1
C2060H	1½"	0.500"	0.469"	1.248"	1032 lb.	7227 lb.	10 ft.	**2YDY3**	**2YEG4**	1	**2YEG8**	1	**2YEH3**	1
C2080H	2"	0.625"	0.625"	1.512"	1610 lb.	12,886 lb.	10 ft.	**2YDY4**	**2YEG5**	1	**2YEG9**	1	**2YEH4**	1
Tsubaki														
C2040	1"	0.312"	0.312"	0.717"	595 lb.	3750 lb.	10 ft.	**6L511**	**6L515**	1	**6L519**	1	**6L523**	1
C2050	1¼"	0.375"	0.400"	0.878"	970 lb.	6170 lb.	10 ft.	**6L512**	**6L516**	1	**6L520**	1	**6L524**	1
C2060H	1½"	0.500"	0.469"	1.225"	1410 lb.	9040 lb.	10 ft.	**6L513**	**6L517**	1	**6L521**	1	**6L525**	1
C2080H	2"	0.625"	0.625"	1.543"	2400 lb.	15,400 lb.	10 ft.	**6L514**	**6L518**	1	**6L522**	1	**6L526**	1

***** *06B chain has conveyor-style flat side bar.*

Dayton TSUBAKI

Corrosion-Resistant Roller Chain and Individual Links

Each 10-ft. length includes 1 connecting link.

Neptune®—Resists corrosion in difficult environments including seawater spray. Chromium-free topcoat protects chain from impact and provides superior rust resistance. Zinc-and-aluminum undercoating ensures maximum corrosion resistance with the same strength as standard ANSI chain.

Nickel-Plated—Useful for decorative applications or in moderately corrosive environments and outdoor conditions. Not suggested for direct food contact.

304 Stainless Steel—Excellent for corrosive conditions involving food, salt-water, chemicals, and pharmaceuticals.



No. 1YGP6



No. 1YJH1



No. 1YJH2

ANSI Chain Size	Pitch	Roller Bushing Width	Roller Dia.	Overall Width	Max. Allowable Load	Tensile Strength	L	CHAIN Item No.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.
Neptune®												
Tsubaki												
35NT	⅜"	0.188"	0.200"	0.500"	480 lb.	2530 lb.	10 ft.	**1YGP6**	**1YJH1**	5	**1YJH2**	5
40NT	½"	0.312"	0.312"	0.717"	810 lb.	4290 lb.	10 ft.	**1YGR2**	**1YJP2**	5	**1YJP3**	5
50NT	⅝"	0.375"	0.400"	0.878"	1430 lb.	7050 lb.	10 ft.	**1YGR6**	**1YJZ6**	5	**1YJZ7**	5
60NT	¾"	0.500"	0.200"	1.087"	1980 lb.	9920 lb.	10 ft.	**1YGT1**	**1YKG6**	5	**1YKG7**	5
Nickel-Plated												
Dayton®												
40NP	½"	0.312"	0.851"	0.695"	648 lb.	3700 lb.	10 ft.	**2YDZ2**	**2YDZ8**	5	**2YEA2**	5
50NP	⅝"	0.375"	0.400"	0.851"	1144 lb.	6100 lb.	10 ft.	**2YDZ3**	**2YDZ9**	5	**2YEA3**	5
60NP	¾"	0.500"	0.469"	1.049"	1584 lb.	8500 lb.	10 ft.	**2YDZ4**	**2YEA1**	5	**2YEA4**	5
Tsubaki												
40NP	½"	0.312"	0.312"	0.717"	660 lb.	4250 lb.	10 ft.	**6L073**	**6L091**	5	**6L082**	5
50NP	⅝"	0.375"	0.400"	0.878"	1140 lb.	7050 lb.	10 ft.	**6L074**	**6L092**	5	**6L083**	5
60NP	¾"	0.500"	0.469"	1.087"	1630 lb.	9900 lb.	10 ft.	**6L075**	**6L093**	5	**6L084**	5
304 Stainless Steel												
Dayton®												
40SS	½"	0.312"	0.851"	0.695"	100 lb.	2750 lb.	10 ft.	**2YDZ5**	—	—	—	—
50SS	⅝"	0.375"	0.851"	0.851"	152 lb.	4950 lb.	10 ft.	**2YDZ6**	—	—	—	—
60SS	¾"	0.500"	0.469"	1.049"	230 lb.	6050 lb.	10 ft.	**2YDZ7**	—	—	—	—
Tsubaki												
25SS	¼"	0.125"	0.130"	0.339"	26 lb.	—	10 ft.	**1YGP4**	**1YJF9**	5	**1YJG1**	5
35SS	⅜"	0.188"	0.200"	0.500"	60 lb.	—	10 ft.	**1YGP7**	**1YJJ9**	5	**1YJK1**	5
40SS	½"	0.312"	0.312"	0.717"	100 lb.	—	10 ft.	**6L076**	**6L094**	5	**6L085**	5
50SS	⅝"	0.375"	0.400"	0.878"	154 lb.	—	10 ft.	**6L077**	**6L095**	5	**6L086**	5
60SS	¾"	0.500"	0.469"	1.087"	231 lb.	—	10 ft.	**6L078**	**6L096**	5	**6L087**	5
80SSRB	1"	0.625"	0.625"	1.398"	397 lb.	—	10 ft.	**1YGT9**	**1YKW9**	1	**1YKX1**	1



A-1



D-1



D-3



K-1



SK-1

TSUBAKI

Chain Attachment Links

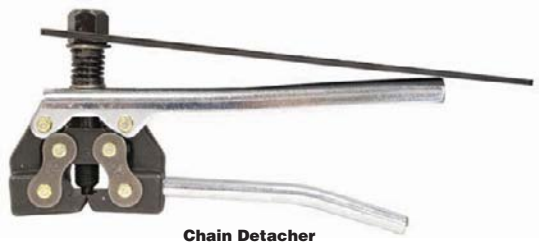
Fixtures can be mounted to attachments for smoother transfer. Sold in pkg. of 5, except single-pitch size 80. Spring clips standard on sizes 35 to 60. Cotter pins standard on sizes 80. Additional styles and sizes are available on Grainger.com®.

ANSI Chain Size	A-1 Item No.	D-1 Item No.	D-3 Item No.	K-1 Item No.	SK-1 Item No.
35	**1YJG3**	**1YJG6**	**1YJG7**	**1YJG9**	**1YJH6**
40	**1YJK3**	**1YJK6**	**1YJK7**	**1YJL4**	**1YJP8**
41	**1YJV9**	—	—	**1YJW2**	**1YJW6**
50	**1YJW8**	**1YJX2**	**1YJX3**	**1YJX9**	**1YKA5**
60	**1YKD8**	**1YKE3**	**1YKE4**	**1YKE9**	**1YKH4**
80	**1YKN7**	**1YKP2**	**1YKP3**	**1YKP6**	**1YKT6**

TSUBAKI Dayton Fenner Drives

Roller Chain Tools

ANSI Size	Brand	Mfr. Model	Item No.
Chain Detacher			
25-60	Tsubaki	D-35	**1A911**
35-50	Dayton	2YEH5	**2YEH5**
60-100	Dayton	2YEH6	**2YEH6**
60-100	Tsubaki	D-60	**1A912**
Chain Puller			
25-35	Fenner Drives	5800250	**54XX39**
35-60	Fenner Drives	5800350	**5TZL3**
40-80	Fenner Drives	5800500	**33Z791**
80-240	Fenner Drives	5800800	**5TZL4**



Chain Detacher
No. 1A911



Chain Puller
No. 5TZL3


ANSI No. 40
No. 1L104


ANSI No. 41
No. 6L889

TSUBAKI

Single-Strand Fixed-Bore Sprockets

ANSI standard sprockets for use with standard roller chain. Constructed of high-carbon and heat-treated steel alloy. Standard keyway (see pages 109, 119 for more info.) and 2 setscrews included. Setscrews are directly over keyway and 90° from keyway, unless noted. The ⅜" and ½" bore sizes have no keyway. Additional sprockets available on Grainger.com®.

				BORE DIA.				
O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	⅜" Item No.	½" Item No.	⅝" Item No.	¾" Item No.	1" Item No.
ANSI Sprocket No. 35								
1.260"	1.097"	9	35B9F	6L774	—	—	—	—
1.380"	1.214"	10	35B10F	6L775	6L776	6L777 *	—	—
1.500"	1.331"	11	35B11F	6L778	6L779	6L780	6L781 *	—
1.630"	1.449"	12	35B12F	—	6L782	6L783	6L784	—
1.750"	1.567"	13	35B13F	—	6L785	6L786	6L787	—
1.870"	1.685"	14	35B14F	—	6L788	6L789	6L790	—
1.990"	1.804"	15	35B15F	—	6L791	6L792	6L793	6L794 *
2.110"	1.922"	16	35B16F	—	6L795	6L796	6L797	6L798 *
2.230"	2.041"	17	35B17F	—	6L799	6L800	6L801	6L802
2.350"	2.160"	18	35B18F	—	6L803	6L804	6L805	6L806
2.470"	2.279"	19	35B19F	—	6L807	6L808	6L809	6L810
2.590"	2.397"	20	35B20F	—	6L811	6L812	6L813	6L814
2.830"	2.635"	22	35B22F	—	—	—	6L821	—
3.070"	2.873"	24	35B24F	—	6L827	6L828	6L829	6L830
3.190"	2.992"	25	35B25F	—	6L831	6L832	6L833	6L834

** Setscrew located 90° and 180° from keyway.*

				BORE DIA.								
O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	½" Item No.	⅝" Item No.	¾" Item No.	⅞" Item No.	1" Item No.	1⅛" Item No.	1 3⁄16" Item No.	1¼" Item No.	1 1⁄16" Item No.	1½" Item No.
ANSI Sprocket No. 40													
1.674"	1.462"	9	40B09F	6L835	6L836	—	—	—	—	—	—	—	—
1.839"	1.618"	10	40B10F	1L104	1L105	1L106	—	—	—	—	—	—	—
2.000"	1.775"	11	40B11F	6L837	6L838	6L839	6L840	—	—	—	—	—	—
2.170"	1.932"	12	40B12F	1L108	1L109	1L110	1L111	1L112	—	—	—	—	—
2.330"	2.089"	13	40B13F	6L841	1L113	1L114	1L115	1L116	—	—	—	—	—
2.490"	2.247"	14	40B14F	1L117	1L118	1L119	1L120	1L121	—	—	—	—	—
2.650"	2.405"	15	40B15F	6L842	1L122	1L123	1L124	1L125	20UF10	20UF11 *	6L843 *	—	—
2.810"	2.563"	16	40B16F	—	1L126	1L127	1L128	1L129	20UF12	20UF13	6L844	—	—
2.980"	2.721"	17	40B17F	—	1L130	1L131	1L132	1L133	20UF14	20UF15	6L845	—	—
3.140"	2.879"	18	40B18F	—	1L134	1L135	1L136	1L137	20UF16	20UF17	6L846	—	—
3.300"	3.038"	19	40B19F	—	6L847	1L138	6L848	1L139	20UF19	20UF20	6L849	20UF21	20UF22
3.460"	3.196"	20	40B20F	—	6L850	1L140	1L141	1L142	20UF23	20UF24	6L851	20UF25	20UF26
3.620"	3.355"	21	40B21F	—	20UF30	6L853	20UF31	6L855	20UF27	—	20UF28	20UF29	—
3.780"	3.513"	22	40B22F	—	20UF35	6L858	20UF36	6L860	20UF32	—	20UF33	20UF34	—
3.940"	3.672"	23	40B23F	—	20UF40	6L863	20UF41	6L865	20UF37	—	20UF38	20UF39	—
4.100"	3.831"	24	40B24F	—	—	1L143	20UF42	1L144	—	—	—	—	—
4.260"	3.989"	25	40B25F	—	—	6L871	—	6L873	—	—	—	—	—
4.420"	4.148"	26	40B26F	—	—	6L876	—	6L878	—	—	—	—	—
4.740"	4.465"	28	40B28F	—	6L880	6L881	—	6L883	—	—	—	—	—
5.060"	4.783"	30	40B30F	—	6L885	6L886	—	1L145	—	—	—	—	—
5.860"	5.578"	35	40B35F	—	—	—	—	1L146	—	—	—	—	—

** Setscrew located 90° and 180° from keyway.*

				BORE DIA.			
O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	½ Item No.	⅝ Item No.	¾ Item No.	1 Item No.
ANSI Sprocket No. 41							
1.670"	1.462"	9	41B9F	6L889	6L890	—	—
1.840"	1.618"	10	41B10F	6L891	6L892	6L893	—
2.000"	1.775"	11	41B11F	—	—	6L896	—
2.170"	1.932"	12	41B12F	—	6L898	6L899	—
2.330"	2.089"	13	41B13F	—	—	—	6L903
2.490"	2.247"	14	41B14F	—	—	—	6L907
2.650"	2.405"	15	41B15F	6L908	—	6L910	—
2.810"	2.563"	16	41B16F	—	—	6L913	—
3.140"	2.879"	18	41B18F	—	6L918	—	6L920
3.460"	3.196"	20	41B20F	—	6L924	6L925	6L926

				BORE DIA.								
O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	⅝" Item No.	¾" Item No.	⅞" Item No.	1" Item No.	1⅛" Item No.	1 3⁄16" Item No.	1¼" Item No.	1 1⁄16" Item No.	1½" Item No.	1⅝" Item No.
ANSI Sprocket No. 50													
2.090"	1.828"	9	50B09F	—	6L927	—	—	—	—	—	—	—	—
2.300"	2.023"	10	50B10F	—	1L147	6L928	6L929 *	—	—	—	—	—	—
2.500"	2.219"	11	50B11F	20UF44	1L148	20UF45	6L931	—	—	—	—	—	—
2.710"	2.415"	12	50B12F	20UF48	1L149	6L932	1L150	1L151	6L933	6L934	—	—	—
2.910"	2.612"	13	50B13F	20UF51	1L152	20UF52	1L153	20UF50	6L936	6L937	—	—	—
3.110"	2.809"	14	50B14F	20UF56	1L155	20UF57	1L156	20UF54	20UF55	1L230	—	—	—
3.320"	3.006"	15	50B15F	20UF61	1L157	6L941	1L158	1L159	6L942	1L160	20UF60	—	—
3.520"	3.204"	16	50B16F	20UF67	1L161	6L943	1L162	1L163	20UF64	1L164	20UF65	20UF66	—
3.720"	3.401"	17	50B17F	—	20UF74	20UF75	1L166	20UF69	20UF70	1L168	20UF71	20UF72	20UF73
3.920"	3.599"	18	50B18F	—	6L947	20UF80	6L949	20UF76	20UF77	6L952	20UF78	20UF79	—
4.120"	3.798"	19	50B19F	—	—	20UF86	6L955	20UF82	20UF83	—	20UF84	20UF85	—
4.320"	3.995"	20	50B20F	—	1L169	20UF93	1L170	20UF88	20UF89	6L962	20UF91	20UF92	—
4.520"	4.194"	21	50B21F	—	—	—	6L965	—	—	—	—	—	—
4.720"	4.392"	22	50B22F	—	—	—	6L971	—	—	—	—	—	—
4.920"	4.590"	23	50B23F	—	—	—	—	—	—	6L980	—	—	—
5.120"	4.788"	24	50B24F	—	—	—	1L171	—	—	6L985	—	—	—
5.520"	5.185"	26	50B26F	—	—	—	6L994	—	—	—	—	—	—
6.320"	5.979"	30	50B30F	—	—	—	6G019	—	6G021	6G022	—	—	—

** Setscrew located 90° and 180° from keyway.*

				BORE DIA.										
O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	¾" Item No.	⅞" Item No.	1" Item No.	1⅛" Item No.	1 3⁄16" Item No.	1¼" Item No.	1 3⁄8" Item No.	1 7⁄16" Item No.	1½" Item No.	1⅝" Item No.	1¾" Item No.	1 15⁄16" Item No.
ANSI Sprocket No. 60															
2.510"	2.193"	9	60B09F	20UG50	—	6G023	—	—	—	—	—	—	—	—	—
2.760"	2.427"	10	60B10F	1L172	20UF94	6G024	—	—	—	—	—	—	—	—	—
3.000"	2.663"	11	60B11F	20UF95	—	1L173	1L174	—	1L175 *	—	—	—	—	—	—
3.250"	2.898"	12	60B12F	20UF98	20UF99	1L176	20UF96	20UF97	1L177 *	—	—	—	—	—	—
3.490"	3.134"	13	60B13F	—	—	1L178	20UG01	20UG02	1L180	—	20UG03 *	6G028 *	—	—	—
3.740"	3.371"	14	60B14F	—	—	1L181	20UG04	20UG05	1L182	—	20UG06 *	6G032 *	—	—	—
3.980"	3.608"	15	60B15F	20UG12	20UG13	1L183	20UG07	20UG08	1L185	—	—	20UG09	20UG11	20UG10 *	—
4.220"	3.845"	16	60B16F	20UG20	20UG21	1L186	20UG14	20UG15	20UG16	—	20UG17	20UG18	20UG19	—	—
4.460"	4.082"	17	60B17F	—	—	20UG22	20UG23	20UG24	20UG25	20UG26	20UG27	20UG28	20UG29	—	—
4.700"	4.319"	18	60B18F	—	—	1L189	20UG31	20UG32	20UG33	—	20UG34	20UG35	20UG36	—	20UG30
4.950"	4.557"	19	60B19F	—	—	—	20UG37	20UG38	20UG39	20UG40	20UG41	20UG42	20UG43	—	20UG44
5.190"	4.794"	20	60B20F	—	—	—	20UG45	20UG46	20UG47	20UG48	20UG49	6G057	—	—	—
5.910"	5.508"	23	60B23F	—	—	6G070	—	—	6G072	—	—	—	—	—	—
6.150"	5.746"	24	60B24F	—	—	6G076	—	—	6G078	—	—	6G081	—	—	—

** Setscrew located 90° and 180° from keyway.*

TSUBAKI

Single-Strand Bushed-Bore Sprockets

- Bushing required

ANSI standard sprockets for use with standard roller chain. Constructed of hardened high-carbon, heat-treated steel alloy.


Quick Detachable No. 5XXW9


Taper-Lock® No. 5XXN1


Split Taper No. 5PTW5

OD.	Pitch Dia.	No. of Teeth	QUICK DETACHABLE Bushing Req.	Mfr. Model	Item No.	TAPER-LOCK® Bushing Req.	Mfr. Model	Item No.	SPLIT TAPER Bushing Req.	Mfr. Model	Item No.
ANSI Sprocket No. 40											
2.490"	2.247"	14	—	—	—	1008	40BTL14	5XXN1 *	—	—	—
2.650"	2.405"	15	JA	40JA15	5XXW9 *	1008	40BTL15	5XXN2	H or QT	40H15	5PTZ7
2.810"	2.563"	16	JA	40JA16	5XXY0 *	1008	40BTL16	5XXN3	H or QT	40H16	5PTZ8
2.980"	2.721"	17	JA	40JA17	5XXY1 *	1210	40BTL17	5XXN4 *	H or QT	40H17	5PTZ9 *
3.140"	2.879"	18	JA	40JA18	5XXY2 *	1210	40BTL18	5XXN5 *	H or QT	40H18	5PTW5 *
3.300"	3.038"	19	JA	40JA19	5XXY3 *	1210	40BTL19	5XXN6	H or QT	40H19	5PTW6
3.460"	3.196"	20	SH	40SH20	5XXY4 *	1610	40BTL20	5XXN7 *	H or QT	40H20	5PTW7 *
3.620"	3.355"	21	SH	40SH21	5XXY5 *	1610	40BTL21	5XXN8	P1	40P21	5PVA0
3.780"	3.513"	22	SH	40SH22	5XXY6	1610	40BTL22	5XXN9	H or QT	40H22	5PVA1
3.940"	3.672"	23	SH	40SH23	5XXY7	1610	40BTL23	5XXP0	P1	40P23	5PVA2
4.100"	3.831"	24	SH	40SH24	5XXY8	1610	40BTL24	5XXP1	H or QT	40H24	5PTW8
4.260"	3.989"	25	SH	40SH25	5XXY9	1610	40BTL25	5XXP2	—	—	—
4.420"	4.148"	26	SH	40SH26	5XXZ0	1610	40BTL26	5XXP3	—	—	—
4.740"	4.465"	28	SH	40SH28	5XXZ1	1610	40BTL28	5XXP4	H or QT	40H28	5PVA3
5.060"	4.783"	30	SH	40SH30	5XXZ2	1610	40BTL30	5XXP5	P1	40P30	5PTW9
5.380"	5.101"	32	SH	40SH32	5XXZ3	1610	40BTL32	5XXP6	P1	40P32	5PVA4
5.860"	5.578"	35	SH	40SH35	5XXZ4	1610	40BTL35	5XXP7	P1	40P35	5PVA5
6.020"	5.737"	36	SDS	40SDS36	5XXZ5	1610	40BTL36	5XXP8	P1	40P36	5PTX0
6.660"	6.373"	40	SDS	40SDS40	5XXZ6	1610	40BTL40	5XXP9	P1	40P40	5PTX1
6.970"	6.691"	42	SDS	40SDS42	20UE85	1610	40BTL42	20UE88	P1	40P42	5PVA6
7.450"	7.168"	45	SDS	40SDS45	5XXZ7	1610	40BTL45	5XXR0	P1	40P45	5PTX2
7.930"	7.645"	48	SDS	40SDS48	5XXZ8	1610	40BTL48	5XXR1	P1	40P48	5PTX3
8.890"	8.599"	54	SDS	40SDS54	20UE86	1610	40BTL54	20UE89	P1	40P54	5PVA7
9.840"	9.554"	60	SDS	40SDS60	5XXZ9	1610	40BTL60	5XXR2	Q1	40Q60	5PTX4
11.430"	11.145"	70	SK	40SK70	20UE87	2012	40BTL70	20UE90	Q1	40Q70	5PTX5
ANSI Sprocket No. 50											
2.710"	2.415"	12	JA	50JA12	5XYA0	1008	50BTL12	5XXR3 *	—	—	—
2.910"	2.612"	13	JA	50JA13	5XYA1	1008	50BTL13	5XXR4	H or QT	50H13	20UE99
3.110"	2.809"	14	JA	50JA14	5XYA2	1008	50BTL14	5XXR5	H or QT	50H14	20UF01
3.320"	3.006"	15	JA	50JA15	5XYA3	1210	50BTL15	5XXR6 *	P1	50P15	5PVA8
3.520"	3.204"	16	JA	50JA16	5XYA4	1610	50BTL16	5XXR7 *	P1	50P16	5PVA9
3.720"	3.401"	17	SH	50SH17	5XYA5	1610	50BTL17	5XXR8 *	P1	50P17	5PVC0
3.920"	3.599"	18	SH	50SH18	5XYA6	1610	50BTL18	5XXR9	H or QT	50H18	5PTX6
4.120"	3.798"	19	SH	50SH19	5XYA7	1610	50BTL19	5XXT0	P1	50P19	5PVC1
4.320"	3.995"	20	SDS	50SDS20	5XYA8	1610	50BTL20	5XXT1	P1	50P20	5PTX7
4.520"	4.194"	21	SDS	50SDS21	5XYA9	1610	50BTL21	5XXT2	P1	50P21	20UF02
4.720"	4.392"	22	SDS	50SDS22	5XYC0	1610	50BTL22	5XXT3	P1	50P22	5PVC2
4.920"	4.590"	23	SDS	50SDS23	5XYC1	2012	50BTL23	5XXT4	Q1	50Q23	5PVC3
5.120"	4.788"	24	SDS	50SDS24	5XYC2	2012	50BTL24	5XXT5	P1	50P24	5PTX8
5.320"	4.987"	25	SDS	50SDS25	5XYC3	2012	50BTL25	5XXT6	Q1	50Q25	5PVC4
5.520"	5.185"	26	SDS	50SDS26	5XYC4	2012	50BTL26	5XXT7	—	—	—
5.920"	5.582"	28	SDS	50SDS28	5XYC5	2012	50BTL28	5XXT8	P1	50P28	20UF03
6.320"	5.979"	30	SDS	50SDS30	5XYC6	2012	50BTL30	5XXT9	Q1	50Q30	5PVC5
6.720"	6.376"	32	SDS	50SDS32	5XYC7	2012	50BTL32	5XXU0	Q1	50Q32	5PVC6
7.320"	6.973"	35	SDS	50SDS35	5XYC8	2012	50BTL35	5XXU1	—	—	—
7.520"	7.171"	36	SDS	50SDS36	5XYC9	2012	50BTL36	5XXU2	Q1	50Q36	5PTX9
8.320"	7.966"	40	SDS	50SDS40	5XYD0	2012	50BTL40	5XXU3	Q1	50Q40	5PTY0
8.720"	8.363"	42	SDS	50SDS42	20UE91	2012	50BTL42	20UE93	Q1	50Q42	5PVC7
9.310"	8.960"	45	SDS	50SDS45	5XYD1	2012	50BTL45	5XXU4	Q1	50Q45	5PTY1
9.910"	9.556"	48	SDS	50SDS48	5XYD2	2012	50BTL48	5XXU5	Q1	50Q48	5PTY2
11.110"	10.749"	54	SK	50SK54	20UE92	2012	50BTL54	20UE94	Q1	50Q54	5PVC8
12.300"	11.942"	60	SK	50SK60	5XYD3	2012	50BTL60	5XXU6	Q1	50Q60	5PTY3
ANSI Sprocket No. 60											
3.250"	2.898"	12	JA	60JA12	5XYD4	1008	60BTL12	20UE96	—	—	—
3.490"	3.134"	13	JA	60JA13	5XYD5	1210	60BTL13	20UE97	P1	60P13	5PTY4
3.740"	3.371"	14	SH	60SH14	5XYD6	1210	60BTL14	5XXU7	P1	60P14	5PTY5
3.980"	3.608"	15	SH	60SH15	5XYD7	1610	60BTL15	5XXU8	P1	60P15	5PTY6
4.220"	3.845"	16	SH	60SH16	5XYD8	1610	60BTL16	5XXU9	P1	60P16	5PVC9
4.460"	4.082"	17	SDS	60SDS17	5XYD9	1610	60BTL17	5XXV0	P1	60P17	5PVD0
4.700"	4.319"	18	SDS	60SDS18	5XYE0	1610	60BTL18	5XXV1	P1	60P18	5PTY7
4.950"	4.557"	19	SDS	60SDS19	5XYE1	1610	60BTL19	5XXV2	P1	60P19	5PVD1
5.190"	4.794"	20	SDS	60SDS20	5XYE2	2012	60BTL20	5XXV3	Q1	60Q20	5PTY8
5.430"	5.033"	21	SDS	60SDS21	5XYE3	2012	60BTL21	5XXV4	Q1	60Q21	20UF05
5.670"	5.270"	22	SDS	60SDS22	5XYE4	2012	60BTL22	5XXV5	Q1	60Q22	5PTY9
5.910"	5.508"	23	SDS	60SDS23	5XYE5	2012	60BTL23	5XXV6	Q1	60Q23	20UF06
6.150"	5.746"	24	SDS	60SDS24	5XYE6	2012	60BTL24	5XXV7	Q1	60Q24	5PTZ0
6.390"	5.984"	25	SDS	60SDS25	5XYE7	2012	60BTL25	5XXV8	Q1	60Q25	5PTZ1
6.630"	6.222"	26	SK	60SK26	5XYE8	2012	60BTL26	5XXV9	Q1	60Q26	20UF07
6.870"	6.460"	27	SK	60SK27	20UE95	—	—	—	Q1	60Q27	5PVD2
7.110"	6.698"	28	SK	60SK28	5XYE9	2012	60BTL28	5XXW0	Q1	60Q28	5PVD3
7.590"	7.175"	30	SK	60SK30	5XYF0	2012	60BTL30	5XXW1	Q1	60Q30	5PTZ2
8.070"	7.652"	32	SK	60SK32	5XYF1	2012	60BTL32	5XXW2	Q1	60Q32	5PVD4
8.780"	8.367"	35	SK	60SK35	5XYF2	2012	60BTL35	5XXW3	Q1	60Q35	20UF08
9.020"	8.606"	36	SK	60SK36	5XYF3	2012	60BTL36	5XXW4	Q1	60Q36	20UF09
9.980"	9.560"	40	SK	60SK40	5XYF4	2012	60BTL40	5XXW5	Q1	60Q40	5PTZ3
11.180"	10.752"	45	SF	60SF45	5XYF5	2012	60BTL45	5XXW6	Q1	60Q45	5PTZ4
11.890"	11.468"	48	SF	60SF48	5XYF6	2012	60BTL48	5XXW7	Q1	60Q48	5PVD5
14.760"	14.330"	60	SF	60SF60	5XYF7	2517	60BTL60	5XXW8	Q1	60Q60	5PTZ5
17.630"	17.194"	72	—	—	—	2517	60BTL72	20UE98	Q1	60Q72	5PTZ6

** Has recessed groove in hub for chain clearance.*

Standard Keyway and Setscrew Machining Guide

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
5/16 - 7/16"	3/32 x 3/64"	#8-32"
1/2 - 9/16"	1/8 x 1/16"	#10-24"
5/8 - 7/8"	3/16 x 3/32"	1/4"
15/16-1 1/4"	1/4 x 1/8"	5/16"
1 5/16- 1 3/8"	5/16 x 5/32"	3/8"
1 7/16-1 3/4"	3/8 x 3/16"	3/8"
1 13/16-2 1/4"	1/2 x 1/4"	1/2"
2 5/16-2 3/4"	5/8 x 5/16"	5/8"
2 13/16-3 1/4"	3/4 x 3/8"	3/4"
3 5/16-3 3/4"	7/8 x 7/16"	3/4"
3 13/16-4 1/2"	1 x 1/2"	3/4"
4 9/16-5 1/2"	1 1/4 x 5/8"	3/4"
5 9/16-6 1/2"	1 1/2 x 3/4"	1"
6 9/16-7 1/2"	1 3/4 x 7/8"	1"
7 9/16-8 15/16"	2 x 1"	1"
9-10 15/16"	2 1/2 x 1 1/4"	1"

† Setscrew size may vary depending on hub wall thickness. As a general rule, the hub wall over the keyway should be equal to or greater than the dia. of the setscrew.
Note: Maximum bore guidelines should be adhered to in order to ensure maximum product quality standards.



Composite Idler Sprockets

Fenner Drives

Quiet, lightweight idlers require no lubrication and are corrosion-resistant, with wear-resistant glass-reinforced nylon and insertion-molded ABEC-1 6203-2RS bearing with ½" bore adapter. Compatible with tensioners on page 121; order separately.

ANSI Chain Size	No. of Teeth	Outside Dia.	Bore Dia.	Mfr. Modelv	Item No.
40	17	2.98"	½"	CS4002/CB0004	**3ZP37**
50	15	3.40"	½"	CS5002/CB0004	**3ZP38**
60	13	3.52"	½"	CS6002/CB0004	**3ZP39**



No. 6AGN0



No. 6AGN4

Steel Idler Sprockets

PowerDrive

Maintain proper chain tension, guide chain around obstacles and prevent excessive chain wear and vibration. Hardened steel teeth. Special tightener shaft not required on ball bearing sprocket idlers. Required shafts for needle bearing models sold separately, this page.

ANSI Chain Size	No. of Teeth	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
Ball Bearing Idler Sprockets						
40	17	2 31/32	5/8"	—	HB40A17X5/8	**6AGN0**
50	15	3 9/16	5/8"	—	HB50A15X5/8	**6AGN1**
60	13	3½	5/8"	—	HB60A13X5/8	**6AGN2**
80	12	4⅓	¾"	—	HB80A12X3/4	**6AGN3**
Needle Bearing Idler Sprockets						
35	13	1¾	½"	6AGL5	HN35B13	**6AGN4**
40	19	3 9/32	1"	6AGL6	HN40B19	**6AGN5**
50	17	3 23/32	1"	6AGL6	HN50B17	**6AGN6**
60	17	4 15/32	1"	6AGL6	HN60B17	**6AGN7**
80	13	4 1/32	1"	6AGL6	HN80B13	**6AGN8**



No. 6AGP4

V-Belt Idler Pulleys

PowerDrive

Prevent belt slippage and position belt away from obstacles. Needle bearings. Required tightener shafts sold separately, this page.

Belt Type	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
4L, A	2.50"	½"	6AGL5	NAK25	**6AGP4**
	3.05"	½"	6AGL5	NAK30	**6AGP5**
5L, B	4.96"	1"	6AGL6	NBK52	**6AGP8**



No. 6AGP0

Flat-Face Idler Pulleys

PowerDrive

Prevent belt slippage. Can be used with flat belts, gearbelts, or the back side of V-belts. Include needle bearings. For use with drive tighteners and tightener shafts, sold separately, this page.

Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
1¾"	½"	6AGL5	N1D05F	**6AGP0**
4⅜"	1"	6AGL6	N4D1F	**6AGP2**
	1"	6AGL7	N4D2F	**6AGP3**



No. 6AGN9

Timing Belt Idler Pulleys

PowerDrive

Position belt away from obstacles. Prevent belt slippage. Include needle bearings. For use with drive tighteners and tightener shafts, sold separately, this page.

Belt Type	No. of Grooves	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
H	16	2.50"	1"	6AGL6	N16H100	**6AGN9**
L	22	2.60"	1"	6AGL6	N22L100	**6AGP1**



No. 6AGK9



No. 6AGL9



No. 6AGL5

PowerDrive

Drive Tighteners and Shafts

Drive Tighteners—Provide controlled tensioning in drives to eliminate shock loading through excessive chain vibration and horsepower loss through belt slippage.

Description	Tightner Shaft Req.	Use With V-Belt Idler Pulley	Use With Idler Sprocket	Use With Flat Face Idler	Use with Timing Belt Pulley Idler	Mfr. Model	Item No.
Drive Tighteners							
Adjusting Tightener	Included	6AGP4, 6AGP5	6AGN4	6AGP0	—	ATN1	**6AGK9**
	6AGL6	6AGP8	6AGN5 to 6AGN8	6AGP2, 6AGP3	6AGN9, 6AGP1	ATQ	**6AGL0**
Single Adjusting Tightener	6AGL6	6AGP8	6AGN5 to 6AGN8	6AGP2, 6AGP3	6AGN9, 6AGP1	SATQ	**6AGL9**

Tightener Shafts—Hardened and ground for maximum life. Use with idlers and drive tighteners. Include set collar and grease fitting.

Overall Length	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
Tightener Shafts				
2 5/16"	½"	1½"	N1	**6AGL5**
3⅜"	1"	2⅛"	N2	**6AGL6**





Fenner Drives®

Glass-Reinforced Nylon Idler Pulleys

- 17mm bore dia.

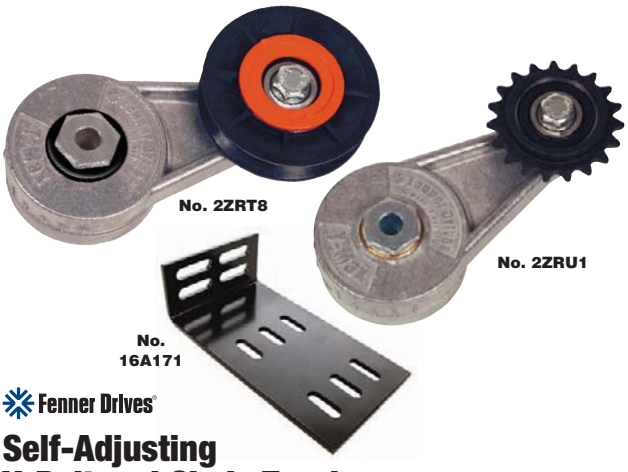
Excellent for washdown applications and corrosive environments. ABEC-1 6203-2RS bearings.

Belt Type	Outside Dia.	Mfr. Model	Item No.
⅜" Flat	3.5"	FA3501	**2ZRT1**
⅞" Flat	5.56"	FA5501	**2ZRT2**
A	3"	VA3001	**2ZRT3**
	3.98"	VA4001	**2ZRT5**
B	3.10"	VA3002	**2ZRT6**
	4.00"	VA4002	**2ZRT7**
	5.04"	VA5001	**2ZRT4**

CAD DRAWINGS
Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**



Fenner Drives®

Self-Adjusting V-Belt and Chain Tensioners

- Tensioning arm deflects up to 45° either side of neutral for wound springs; 70° for torsional wrapped springs
- Alloy steel springs

Maintain correct tension on belt and chain drives without requiring manual retensioning. Reduce resonant frequency of chain drives.

Nos. 2ZRT8, 2ZRU1, 2ZRU2, and 16A169 feature accurately wound compression springs for constant tensioning force. Nos. 16A170, 2ZRT9, 2ZRU3, and 2ZRU4 feature reversible torsional wrapped spring for bidirectional use.

Description	Idler OD.	Force Range	Mfr. Model	Item No.
Tensioner for V-Belt Size				
A	3.00"	0-30 lb.	FS0127	**2ZRT8**
B	5.04"	0-30 lb.	FS0209	**16A169**
B	5.04"	0-42 lb.	FS0566	**2ZRT9**
2-B	4.00"	0-42 lb.	FS0608	**16A170**
Tensioner for ANSI Chain Size				
35	2.48"	0-30 lb.	FS0072	**2ZRU1**
40	2.98"	0-30 lb.	FS0071	**2ZRU2**
50	3.34"	0-42 lb.	FS0567	**2ZRU4**
60	3.52"	0-42 lb.	FS0568	**2ZRU3**
Mounting Bracket				
Compatible with NEMA 48, 56, and 143T Designs			B1265	**16A171**

Linear Chain Tensioners

Fenner Drives®

- Die-cast aluminum construction
- Single bolt for mounting and tension adjustment
- Built-in spring mechanism absorbs momentary overloads and reduces vibration
- UHMW head is self-lubricating

Offer fully automatic straight-line take up for single chain applications.

ANSI Chain Size	Force Range (lb.)	LARGE ARCH UHMW HEAD Mfr. Model	LARGE ARCH UHMW HEAD Item No.	SMALL ARCH UHMW HEAD Mfr. Model	SMALL ARCH UHMW HEAD Item No.
35	15 to 40	CT1101	**19RU06**	CT1201	**19RU12**
40	15 to 40	CT1102	**19RU07**	CT1202	**19RU13**
50	20 to 60	CT2101	**19RU08**	CT2201	**19RU14**
60	20 to 60	CT2102	**19RU09**	CT2202	**19RU15**
80	45 to 100	CT3101	**19RU10**	CT3201	**19RU16**
100	45 to 100	CT3102	**19RU11**	CT3202	**19RU17**



No. 19RU06



No. 19RU12

Elastomeric Tensioners

Lovejoy

- 1-bolt mounting
- Temp. range: -40° to 180°F

Employ no metal-to-metal connections; no lubrication required. Withstand dirt and grime; can be used indoors or out. Mounting bolt and idler bolt included. Nos. 1L833, 1L834, and 1L835 include ⅝" bushing. Idler sprockets not included; for compatible sprockets see page 120.

ANSI Chain Size	V-Belt Size Range	Flat Belt Width	ANGLE OF PRETENSION 10° Normal Force	10° Hard Force	10° Arm Movement Normal Force	20° Normal Force	20° Hard Force	20° Arm Movement Normal Force	30° Normal Force	30° Hard Force	30° Arm Movement Normal Force	Mfr. Model	Item No.
25	A	—	3.4 lb.	4.5 lb.	0.55"	9.0 lb.	11.9 lb.	1.10"	18.0 lb.	23.9 lb.	1.57"	RT11	**3KZ08**
35	A, B, 3L	—	5.6 lb.	7.0 lb.	0.67"	14.6 lb.	18.2 lb.	1.34"	30.4 lb.	37.8 lb.	1.97"	RT15	**1L833**
35, 40, 41	B, C, 4L, 5L	1, 2"	16.9 lb.	20.9 lb.	0.67"	40.5 lb.	50.6 lb.	1.34"	78.7 lb.	98.2 lb.	1.97"	RT18	**1L834**
40, 41, 50, 60	D, E	2, 3, 4"	33.8 lb.	43.8 lb.	0.87"	85.4 lb.	111.1 lb.	1.73"	179.8 lb.	233.8 lb.	2.56"	RT27	**1L835**
80	—	4, 5"	65.3 lb.	81.4 lb.	1.18"	164.1 lb.	205.0 lb.	2.36"	337.2 lb.	421.5 lb.	3.43"	RT38	**1L836**
80, 100, 120,160, 180, 200	—	5, 6"	112.5 lb.	140.5 lb.	1.54"	292.5 lb.	365.6 lb.	3.07"	584.5 lb.	730.7 lb.	4.41"	RT45	**3KZ09**





Coupling Sprocket



Coupling Cover (½ Shown)



Coupling Chain



Complete Coupling Assembly

Chain Couplings

PowerDrive

- Operating temp.: -25° to 150°F
- Max. parallel misalignment: 0.005"

Complete unit consists of 2 coupling sprockets, double-strand roller chain, and coupling cover. Split-taper bushings required for 50 and 60 pitch couplings, see page 115. Coupling sprockets are steel construction with fixed-bore versions having standard keyway and set screw. Coupling covers are cast-aluminum with seals, grease fitting, and hardware for installation.

Bore Dia.	HP Rating @ 100 RPM	COUPLING SPROCKETS (2 REQUIRED)* Bushing Req.	Mfr. Model	Item No.	COUPLING CHAIN (1 REQUIRED) Mfr. Model	Item No.	COUPLING COVER (OPTIONAL) Mfr. Model	Item No.
Fixed Bore*								
⅝"	0.90	—	C4016X5/8	**6AGR7**	C40-16	**6AGR2**	AL40	**6AGP9**
¾"	0.90	—	C4016X3/4	**6AGR6**	C40-16	**6AGR2**	AL40	**6AGP9**
⅞"	0.90	—	C4016X7/8	**6AGR8**	C40-16	**6AGR2**	AL40	**6AGP9**
1"	0.90	—	C4016X1	**6AGR4**	C40-16	**6AGR2**	AL40	**6AGP9**
1⅛"	0.90	—	C4016X1 ⅛	**6AGR5**	C40-16	**6AGR2**	AL40	**6AGP9**
1¼"	0.90	—	C4016X 1 ¼	**6AGR3**	C40-16	**6AGR2**	AL40	**6AGP9**
Bushed Bore								
½ - 1½"	0.90	QT or H	C5016XH	**6AGT0**	C50-16	**6AGR9**	AL50	**6AGR0**
½ - 2 7/16"	3.86	B	C6020XB	**6AGT2**	C60-20	**6AGT1**	AL60	**6AGR1**

** Sprockets work with Delrin® coupling chain, this page.*

Cut-to-Length No. 6AGT3



Delrin® Coupling Chain

PowerDrive

- Operating temp.: -25° to 150°F
- Angular misalignment tolerance: 1° (10T-19T), ½° (20T-24T)
- Max. parallel misalignment: 0.005"
- End float tolerance: 0.060"

Complete coupling consists of 2 sprockets (sold separately) and one coupling chain. Corrosion-resistant. Use with stainless steel sprockets for washdown applications. No lubrication required. Slip-fit coupler pin included with Nos. 6AGT4 through 6AGT6.

For Use With	HP Rating @ 100 RPM*	Chain Coupling Dim. O.D.	W	Mfr. Model	Item No.
Chain					
(2) 40 Pitch 12-Tooth Sprockets	0.51	2.370"	1.2500"	N412CPLG	**6AGT4**
(2) 40 Pitch 16-Tooth Sprockets	0.90	3.000"	1.2500"	N416CPLG	**6AGT5**
(2) 40 Pitch 24-Tooth Sprockets	2.02	4.270"	1.2500"	N424CPLG	**6AGT6**
Chain, Cut-to-Length					
40 Pitch Delrin Coupling Chain, 10 Ft.				N4 10FTCPLG CHAIN	**6AGT3**

** Based on 1.0 service factor.*



Dayton® Zinc-Plated Steel



Ruland Black Oxide 1215 Lead-Free Steel



Ruland 303 Stainless Steel

Set Screw Shaft Collars

Dayton RULAND Carefully Made Shaft Collars and Couplings

For soft or predrilled shafts. Lock onto shaft by tightening cup point socket set screw. Zinc-plated and black oxide-coated steel collars have alloy screws; stainless steel has stainless steel screws.

Ruland—Machined to a burr-free finish from solid bar stock sourced exclusively from North American mills. High-grade forged screws meet or exceed ANSI standards.

- TIR <0.002" (0.05mm)
- RoHS2 and REACH compliant

Bore Dia.	Outside Dia.	W	Screw Size	ZINC PLATED STEEL Item No.	Pkg. Qty.	STAINLESS STEEL Item No.	Pkg. Qty.
Dayton							
⅛"	⅜"	¼"	#6-32	**1L625**	3	**1L630**	1
3/16"	7/16"	¼"	#8-32	**1L626**	3	**1L631**	1
¼"	½"	5/16"	#10-32	**2X735**	3	**1L632**	1
5/16"	⅝"	5/16"	#10-32	**2X736**	3	**1L633**	1
⅜"	¾"	⅜"	¼-20	**2X737**	3	**1L634**	1
7/16"	⅞"	7/16"	¼-20	**1L627**	3	**1L635**	1
½"	1"	7/16"	¼-20	**2X568**	3	**1L636**	1
9/16"	1"	7/16"	¼-20	**3ZN88**	3	—	—
⅝"	1⅛"	½"	5/16"-18	**2X569**	3	**1L637**	1
11/16"	1¼"	9/16"	5/16"-18	**3ZN89**	3	—	—
¾"	1¼"	9/16"	5/16"-18	**2X570**	3	**1L638**	1
13/16"	1½"	9/16"	5/16"-18	**3ZN90**	3	—	—
⅞"	1½"	9/16"	5/16"-18	**2X738**	3	**1L639**	1
15/16"	1⅝"	⅝"	5/16"-18	**3ZN91**	3	—	—
1"	1⅝"	⅝"	5/16"-18	**2X571**	3	**1L640**	1
1 1/16"	1¾"	⅝"	5/16"-18	**3ZN92**	1	—	—
1⅛"	1¾"	⅝"	5/16"-18	**2X739**	1	**1L641**	1
1 3/16"	2"	11/16"	⅜"-16	**5X643**	1	**1L642**	1
1¼"	2"	11/16"	⅜"-16	**2X740**	1	**1L643**	1
1 5/16"	2⅛"	11/16"	⅜"-16	**1L628**	1	**1L644**	1
1⅜"	2⅛"	¾"	⅜"-16	**5X644**	1	**1L645**	1
1 7/16"	2¼"	¾"	⅜"-16	**5X645**	1	**1L646**	1
1½"	2¼"	¾"	⅜"-16	**4X228**	1	**1L647**	1
1 9/16"	2½"	13/16"	⅜"-16	**3ZN81**	1	—	—
1⅝"	2½"	13/16"	⅜"-16	**1L629**	1	**1L648**	1
1 11/16"	2½"	13/16"	⅜"-16	**5X646**	1	**1L649**	1
1¾"	2¾"	⅞"	½"-13	**4X229**	1	**1L650**	1
1 13/16"	2¾"	⅞"	½"-13	**3ZN82**	1	—	—
1⅞"	2¾"	⅞"	½"-13	**4X230**	1	—	—
1 15/16"	3"	⅞"	½"-13	**4X231**	1	**1L652**	1
2"	3"	⅞"	½"-13	**4X232**	1	**1L653**	1
2¼"	3¼"	15/16"	½"-13	**3ZN83**	1	—	—
2 1/16"	3½"	1"	½"-13	**3ZN84**	1	—	—
2½"	3½"	1"	½"-13	**3ZN85**	1	—	—
2 15/16"	4¼"	1⅛"	½"-13	**3ZN86**	1	—	—
3"	4¼"	1⅛"	½"-13	**3ZN87**	1	—	—

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	Pkg. Qty.	303 STAINLESS STEEL Item No.	Pkg. Qty.
Ruland								
⅛"	⅜"	¼"	#6-32	SC-2-*	**2AEB4**	3	**2AEB6**	1
3/16"	7/16"	¼"	#8-32	SC-3-*	**2AEE1**	3	**2AEE3**	1
¼"	½"	9/32"	#8-32	SC-4-*	**2AEF4**	3	**2AEF8**	1
5/16"	⅝"	11/32"	#10-32	SC-5-*	**2AEG3**	3	**2AEG7**	1
⅜"	¾"	⅜"	¼-20	SC-6-*	**2AEH2**	3	**2AEH6**	1
7/16"	⅞"	7/16"	¼-20	SC-7-*	**2AEJ1**	3	**2AEJ3**	1
½"	1"	7/16"	¼-20	SC-8-*	**2AEJ7**	3	**2AEK2**	1
9/16"	1"	7/16"	¼-20	SC-9-*	**2ARD1**	3	—	—
⅝"	1⅛"	½"	5/16"-18	SC-10*	**2ADP3**	3	**2ADP7**	1
11/16"	1¼"	9/16"	5/16"-18	SC-11*	**2ADP9**	3	—	—
¾"	1¼"	9/16"	5/16"-18	SC-12*	**2ADR4**	3	**2ADR8**	1
13/16"	1 5/16"	9/16"	5/16"-18	SC-13*	**2ADT1**	3	—	—
⅞"	1½"	9/16"	5/16"-18	SC-14*	**2ADT5**	3	**2ADT9**	1
15/16"	1⅜"	9/16"	5/16"-18	SC-15*	**2ADU2**	3	—	—
1"	1⅝"	⅝"	5/16"-18	SC-16*	**2ADU6**	3	**2ADV1**	1
1 1/16"	1¾"	⅝"	5/16"-18	SC-17*	**2ADV2**	1	—	—
1⅛"	1¾"	⅝"	5/16"-18	SC-18*	**2ADV4**	1	**2ADV8**	1
1 3/16"	2"	11/16"	⅜"-16	SC-19*	**2ADW1**	1	**2ADW3**	1
1¼"	2"	11/16"	⅜"-16	SC-20*	**2ADW5**	1	**2ADW9**	1
1 5/16"	2⅛"	11/16"	⅜"-16	SC-21*	**2ADX2**	1	**2ADX4**	1
1⅜"	2⅛"	¾"	⅜"-16	SC-22*	**2ADX6**	1	**2ADY1**	1
1 7/16"	2¼"	¾"	⅜"-16	SC-23*	**2ADY3**	1	**2ADY5**	1
1½"	2¼"	¾"	⅜"-16	SC-24*	**2ADY7**	1	**2ADY9**	1
1 9/16"	2½"	13/16"	⅜"-16	SC-25*	**2ADZ2**	1	—	—
1⅝"	2½"	13/16"	⅜"-16	SC-26*	**2ADZ4**	1	**2ADZ6**	1
1 11/16"	2½"	13/16"	⅜"-16	SC-27*	**2ADZ8**	1	**2AEA1**	1
1¾"	2¾"	⅞"	½"-13	SC-28*	**2AEA3**	1	**2AEA7**	1
1 13/16"	2¾"	⅞"	½"-13	SC-29*	**2AEA9**	1	—	—
1⅞"	2¾"	⅞"	½"-13	SC-30-*	**2AEB8**	1	**2AEC1**	1
1 15/16"	3"	⅞"	½"-13	SC-31-*	**2AEC3**	1	**2AEC5**	1
2"	3"	⅞"	½"-13	SC-32-*	**2AEC7**	1	**2AED2**	1
2¼"	3¼"	15/16"	½"-13	SC-36-*	**2AED4**	1	—	—
2 1/16"	3½"	1"	½"-13	SC-39-*	**2AED6**	1	—	—
2½"	3½"	1"	½"-13	SC-40-*	**2AEE5**	1	—	—
2 15/16"	4¼"	1⅛"	½"-13	SC-47-*	**2AEE7**	1	—	—
3"	4¼"	1⅛"	½"-13	SC-48-*	**2AEE9**	1	—	—

** To complete manufacturer model number substitute "F" for black oxide and "SS" for stainless steel.*



Ruland
Black Oxide 1215
Lead-Free Steel



Ruland
Threaded 303
Stainless Steel



Adjustable Drill
Depth Stop
Collar Set

Bore Dia.
Collar Sets Include Sizes:
1/8"
3/16"
1/4"
5/16"
3/8"
7/16"
1/2"

1-Pc. Clamp Shaft Collars and Collar Sets

- Ruland: TIR <0.002" (0.05mm)
- Ruland collars are RoHS2 and REACH compliant

Design wraps tightly around the shaft for even distribution of clamping forces without the shaft damage caused by set screws, and with greater holding power. Forged clamp screws meet or exceed ANSI standards. Black oxide-coated steel and aluminum have alloy socket cap screws. Stainless steel has stainless steel socket cap screws. Threaded collars offer superior axial holding power compared with smooth bore units and are easier to install and adjust. Ruland collar materials are sourced exclusively from North American mills.

Adjustable Drill Depth Stop Collar Sets—Include seven 1-pc. clamp-style shaft collars (from ⅛" to ½" in 1/16" increments) with hex wrenches in a sturdy plastic box.

Bore Dia.	Outside Dia.	W	Screw Size	BLACK OXIDE STEEL Item No.	STAINLESS STEEL Item No.
Dayton®					
⅛"	½"	¼"	#4-40	**1L654**	—
3/16"	⅝"	5/16"	#4-40	**1L655**	**1L674**
¼"	11/16"	5/16"	#4-40	**1L656**	**1L675**
5/16"	11/16"	5/16"	#4-40	**1L657**	**1L676**
⅜"	⅞"	11/32"	#6-32	**1L658**	**1L677**
7/16"	15/16"	⅜"	#6-32	**1L659**	**1L678**
½"	1⅛"	13/32"	#8-32	**1L660**	**1L679**
5/8"	1 5/16"	7/16"	#10-32	**1L661**	**1L680**
¾"	1½"	½"	¼"-28	**1L662**	**1L681**
⅞"	1⅜"	½"	¼"-28	**1L663**	**1L682**
1"	1¾"	½"	¼"-28	**1L664**	**1L683**
1⅛"	1⅞"	½"	¼"-28	**1L665**	**1L684**
1 3/16"	2 1/16"	½"	¼"-28	**3ZP02**	—
1¼"	2 1/16"	½"	¼"-28	**1L666**	**1L685**
1 3/16"	2¼"	9/16"	¼"-28	**1L667**	**1L686**
1 7/16"	2¼"	9/16"	¼"-28	**3ZN93**	—
1½"	2⅜"	9/16"	¼"-28	**1L668**	**1L687**
1⅝"	2⅜"	11/16"	5/16"-24	**1L669**	—
1 11/16"	2¾"	11/16"	5/16"-24	**3ZN94**	—
1¾"	2¾"	11/16"	5/16"-24	**1L670**	**1L689**
1⅞"	2⅞"	11/16"	5/16"-24	**1L671**	—
1 15/16"	3"	11/16"	5/16"-24	**3ZN95**	—
2"	3"	11/16"	5/16"-24	**1L672**	**1L691**
2¼"	3¼"	¾"	5/16"-24	**3ZN96**	—
2 7/16"	3½"	¾"	5/16"-24	**3ZN97**	—
2½"	3¾"	⅞"	⅜"-24	**3ZN98**	—
2 15/16"	4¼"	⅞"	⅜"-24	**3ZN99**	—
3"	4¼"	⅞"	⅜"-24	**3ZP01**	—

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	2024 ALUMINUM Item No.	303 STAINLESS STEEL Item No.
Ruland							
⅛"	⅝"	9/32"	#4-40	CL-2-*	**2AKN5**	**2AKN4**	**2AKN6**
3/16"	⅝"	9/32"	#4-40	CL-3-*	**2AKU2**	**2AKU1**	**2AKU3**
¼"	⅝"	9/32"	#4-40	CL-4-*	**2AKW4**	**2AKW2**	**2AKW6**
5/16"	1 1/16"	9/32"	#4-40	CL-5-*	**2AKX1**	**2AKW8**	**2AKX3**
⅜"	⅞"	11/32"	#6-32	CL-6-*	**2AKX7**	**2AKX5**	**2AKX9**
7/16"	15/16"	11/32"	#6-32	CL-7-*	**2AKY4**	**2AKY2**	**2AKY6**
½"	1⅛"	13/32"	#8-32	CL-8-*	**2AKZ1**	**2AKY8**	**2AKZ3**
9/16"	1¼"	7/16"	#10-32	CL-9-*	**2AKZ7**	**2AKZ5**	**2AKZ9**
⅝"	1 5/16"	7/16"	#10-32	CL-10-*	**2AKF8**	**2AKF7**	**2AKF9**
11/16"	1⅜"	7/16"	#10-32	CL-11-*	**2AKG2**	**2AKG1**	**2AKG3**
¾"	1½"	½"	¼"-28	CL-12-*	**2AKG5**	**2AKG4**	**2AKG6**
13/16"	1⅝"	½"	¼"-28	CL-13-*	**2AKG8**	**2AKG7**	**2AKG9**
⅞"	1⅝"	½"	¼"-28	CL-14-*	**2AKH2**	**2AKH1**	**2AKH3**
15/16"	1¾"	½"	¼"-28	CL-15-*	**2AKH5**	**2AKH4**	**2AKH6**
1"	1¾"	½"	¼"-28	CL-16-*	**2AKH8**	**2AKH7**	**2AKH9**
1 1/16"	1⅞"	½"	¼"-28	CL-17-*	**2AKJ2**	**2AKJ1**	**2AKJ3**
1⅛"	1⅞"	½"	¼"-28	CL-18-*	**2AKJ5**	**2AKJ4**	**2AKJ6**
1 3/16"	2 1/16"	½"	¼"-28	CL-19-*	**2AKJ8**	**2AKJ7**	**2AKJ9**
1¼"	2 1/16"	½"	¼"-28	CL-20-*	**2AKK2**	**2AKK1**	**2AKK3**
1 5/16"	2⅛"	9/16"	¼"-28	CL-21-*	**2AKK5**	**2AKK4**	**2AKK6**
1⅜"	2¼"	9/16"	¼"-28	CL-22-*	**2AKK8**	**2AKK7**	**2AKK9**
1 7/16"	2¼"	9/16"	¼"-28	CL-23-*	**2AKL2**	**2AKL1**	**2AKL3**
1½"	2⅜"	9/16"	¼"-28	CL-24-*	**2AKL5**	**2AKL4**	**2AKL6**
1 9/16"	2⅜"	9/16"	¼"-28	CL-25-*	**2AKL8**	**2AKL7**	**2AKL9**
1⅝"	2⅝"	11/16"	5/16"-24	CL-26-*	**2AUU8**	**2AUU7**	**2AUU9**
1 11/16"	2¾"	11/16"	5/16"-24	CL-27-*	**2AUV2**	**2AUV1**	**2AUV3**
1¾"	2¾"	11/16"	5/16"-24	CL-28-*	**2AUV5**	**2AUV4**	**2AUV6**

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	2024 ALUMINUM Item No.	303 STAINLESS STEEL Item No.
1 13/16"	2⅞"	11/16"	5/16"-24	CL-29-*	**2AKN2**	**2AKN1**	**2AKN3**
1⅞"	2⅞"	11/16"	5/16"-24	CL-30-*	**2AKN8**	**2AKN7**	**2AKN9**
1 15/16"	3"	11/16"	5/16"-24	CL-31-*	**2AKP2**	**2AKP1**	**2AKP3**
2"	3"	11/16"	5/16"-24	CL-32-*	**2AKP5**	**2AKP4**	**2AKP6**
2 1/16"	3⅛"	¾"	5/16"-24	CL-33-*	**2AKP8**	**2AKP7**	**2AKP9**
2⅛"	3¼"	¾"	5/16"-24	CL-34-*	**2AKR2**	**2AKR1**	**2AKR3**
2 3/16"	3¼"	¾"	5/16"-24	CL-35-*	**2AKR5**	**2AKR4**	**2AKR6**
2¼"	3¼"	¾"	5/16"-24	CL-36-*	**2AKR8**	**2AKR7**	**2AKR9**
2 5/16"	3⅜"	¾"	5/16"-24	CL-37-*	**2AKT2**	**2AKT1**	**2AKT3**
2⅜"	3½"	¾"	5/16"-24	CL-38-*	**2AKT5**	**2AKT4**	**2AKT6**
2 7/16"	3½"	¾"	5/16"-24	CL-39-*	**2AKT8**	**2AKT7**	**2AKT9**
2½"	3¾"	⅞"	⅜"-24	CL-40-*	**2AHV1**	**2AKU4**	**2ARE9**
2 9/16"	3⅞"	⅞"	⅜"-24	CL-41-*	**2ARF1**	—	**2ARF2**
2⅝"	3⅞"	⅞"	⅜"-24	CL-42-*	**2ARF3**	—	**2ARF4**
2 11/16"	4"	⅞"	⅜"-24	CL-43-*	**2ARF5**	—	**2AKU5**
2¾"	4"	⅞"	⅜"-24	CL-44-*	**2AKU7**	**2AKU6**	**2AKU8**
2 13/16"	4¼"	⅞"	⅜"-24	CL-45-*	**2AKU9**	—	**2AKV1**
2⅞"	4¼"	⅞"	⅜"-24	CL-46-*	**2AKV3**	**2AKV2**	**2AKV4**
2 15/16"	4¼"	⅞"	⅜"-24	CL-47-*	**2AKV6**	**2AKV5**	**2AKV7**
3"	4¼"	⅞"	⅜"-24	CL-48-*	**2AKV9**	**2AKV8**	**2AKW1**

**** To complete manufacturer model number, substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.***

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	303 STAINLESS STEEL Item No.
Ruland Threaded						
¼"-20	⅝"	9/32"	#4-40	TCL-4-20-*	**2ALC1**	**2ALC3**
¼"-28	⅝"	9/32"	#4-40	TCL-4-28-*	**2ALC5**	**2ALC7**
5/16"-18	1 1/16"	9/32"	#4-40	TCL-5-18-*	**2ALC9**	**2ALD2**
5/16"-24	1 1/16"	9/32"	#4-40	TCL-5-24-*	**2ALD4**	**2ALD6**
⅜"-16	⅞"	11/32"	#6-32	TCL-6-16-*	**2ALD8**	**2ALE1**
⅜"-24	⅞"	11/32"	#6-32	TCL-6-24-*	**2ALE3**	**2ALE5**
7/16"-14	15/16"	11/32"	#6-32	TCL-7-14-*	**2ALE7**	**2ALE9**
7/16"-20	15/16"	11/32"	#6-32	TCL-7-20-*	**2ALF2**	**2ALF4**
½"-13	1⅛"	13/32"	#8-32	TCL-8-13-*	**2ALF6**	**2ALF8**
½"-20	1⅛"	13/32"	#8-32	TCL-8-20-*	**2ALG1**	**2ALG3**
⅝"-11	1 5/16"	7/16"	#10-32	TCL-10-11-*	**2ADC8**	**2ADD2**
⅝"-18	1 5/16"	7/16"	#10-32	TCL-10-18-*	**2ADD5**	**2ADD8**
¾"-10	1½"	½"	¼"-28	TCL-12-10-*	**2ADE2**	**2ADE5**
¾"-16	1½"	½"	¼"-28	TCL-12-16-*	**2AKW3**	**2AKW5**
⅞"-14	1⅝"	½"	¼"-28	TCL-14-14-*	**2AKW7**	**2AKW9**
⅞"-9	1⅝"	½"	¼"-28	TCL-14-9-*	**2AKX2**	**2AKX4**
1"-12	1¾"	½"	¼"-28	TCL-16-12-*	**2AKX6**	**2AKX8**
1"-14	1¾"	½"	¼"-28	TCL-16-14-*	**2AKY1**	**2AKY3**
1"-8	1¾"	½"	¼"-28	TCL-16-8-*	**2AKY5**	**2AKY7**
1 1/8"-12	1⅞"	½"	¼"-28	TCL-18-12-*	**2AKY9**	**2AKZ2**
1¼"-12	2 1/16"	½"	¼"-28	TCL-20-12-*	**2AKZ4**	**2AKZ6**
1¼"-7	2 1/16"	½"	¼"-28	TCL-20-7-*	**2AKZ8**	**2ALA1**
1⅜"-12	2¼"	9/16"	¼"-28	TCL-22-12-*	**2ALA3**	**2ALA5**
1½"-12	2⅜"	9/16"	¼"-28	TCL-24-12-*	**2ALA7**	**2ALA9**
1¾"-16	2¾"	11/16"	5/16"-24	TCL-28-16-*	**2ALB2**	**2ALB4**
2"-12	3"	11/16"	5/16"-24	TCL-32-12-*	**2ALB6**	**2ALB8**

**** To complete manufacturer model number, substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.***

Description	DAYTON Item No.	RULAND Item No.
Adjustable Drill Depth Stop Collar Sets	**1F616**	**2ADN8**



Ruland Black Oxide 1215 Lead-Free Steel



Ruland 2024 Aluminum



Ruland 303 Stainless Steel

Dayton RULAND Carefully Made Shaft Collars and Couplings

2-Pc. Clamp Shaft Collars

Wrap around hard or soft shafts without marring. Easy to install without having to disassemble machinery or components. Black oxide-coated steel and aluminum have alloy socket cap screws; stainless steel has stainless steel socket cap screws.

Ruland—Collars are made exclusively from North American bar stock and mated throughout the manufacturing process to assure a proper fit. Machined to a burr-free finish. High-grade forged screws meet or exceed ANSI standards.

- TIR <0.002" (0.05mm)
- RoHS2 and REACH compliant

Bore Dia.	Outside Dia.	W	Screw Size	BLACK OXIDE STEEL Item No.	STAINLESS STEEL Item No.
Dayton					
1/8"	1/2"	1/4"	#4-40	**1L692**	**1L711**
3/16"	5/8"	5/16"	#4-40	**1L693**	**1L712**
1/4"	11/16"	5/16"	#4-40	**1L694**	**1L713**
5/16"	11/16"	5/16"	#4-40	**1L695**	**1L714**
3/8"	7/8"	11/32"	#6-32	**1L696**	**1L715**
7/16"	15/16"	3/8"	#6-32	**1L697**	**1L716**
1/2"	1 1/8"	13/32"	#8-32	**1L698**	**1L717**
5/8"	1 5/16"	7/16"	#10-32	**1L699**	**1L718**
3/4"	1 1/2"	1/2"	1/4"-28	**1L700**	**1L719**
7/8"	1 5/8"	1/2"	1/4"-28	**1L701**	**1L720**
1"	1 3/4"	1/2"	1/4"-28	**1L702**	**1L721**
1 1/8"	1 7/8"	1/2"	1/4"-28	**1L703**	**1L722**
1 3/16"	2 1/16"	1/2"	1/4"-28	**3ZN80**	—
1 1/4"	2 1/16"	1/2"	1/4"-28	**1L704**	**1L723**
1 3/8"	2 1/4"	9/16"	1/4"-28	**1L705**	**1L724**
1 7/16"	2 1/4"	9/16"	1/4"-28	**3ZN72**	—
1 1/2"	2 3/8"	9/16"	1/4"-28	**1L706**	**1L725**
1 5/8"	2 5/8"	11/16"	5/16"-24	**1L707**	**1L726**
1 11/16"	2 3/4"	11/16"	5/16"-24	**3ZN73**	—
1 3/4"	2 3/4"	11/16"	5/16"-24	**1L708**	**1L727**
1 7/8"	2 7/8"	11/16"	5/16"-24	**1L709**	**1L728**
1 15/16"	3"	11/16"	5/16"-24	**3ZN74**	—
2"	3"	11/16"	5/16"-24	**1L710**	**1L729**
2 1/4"	3 1/4"	3/4"	5/16"-24	**3ZN75**	—
2 7/16"	3 1/2"	3/4"	5/16"-24	**3ZN76**	—
2 1/2"	3 3/4"	7/8"	3/8"-24	**3ZN77**	—
2 15/16"	4 1/4"	7/8"	3/8"-24	**3ZN78**	—
3"	4 1/4"	7/8"	3/8"-24	**3ZN79**	—

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	2024 ALUMINUM Item No.	303 STAINLESS STEEL Item No.
Ruland							
1/8"	5/8"	9/32"	#4-40	SP-2-*	**2APP5**	**2APP2**	**2APP8**
3/16"	5/8"	9/32"	#4-40	SP-3-*	**2ARC3**	**2ARB9**	**2ARC6**
1/4"	5/8"	9/32"	#4-40	SP-4-*	**2ACT5**	**2ACT2**	**2ACT8**
5/16"	1 1/16"	9/32"	#4-40	SP-5-*	**2ACW6**	**2ACW3**	**2ACW9**
3/8"	7/8"	11/32"	#6-32	SP-6-*	**2ACZ3**	**2ACY9**	**2ACZ6**
7/16"	15/16"	11/32"	#6-32	SP-7-*	**2ADA3**	**2ACZ9**	**2ADA6**
1/2"	1 1/8"	13/32"	#8-32	SP-8-*	**2ADB2**	**2ADA9**	**2ADB5**
9/16"	1 1/4"	7/16"	#10-32	SP-9-*	**2ADC2**	**2ADB8**	**2ADC5**
5/8"	1 5/16"	7/16"	#10-32	SP-10-*	**2ANT5**	**2ANT2**	**2ANT8**
11/16"	1 3/8"	7/16"	#10-32	SP-11-*	**2ANU5**	**2ANU2**	**2ANU8**
3/4"	1 1/2"	1/2"	1/4"-28	SP-12-*	**2ANV5**	**2ANV2**	**2ANV8**
13/16"	1 5/8"	1/2"	1/4"-28	SP-13-*	**2ANW5**	**2ANW2**	**2ANW8**
7/8"	1 5/8"	1/2"	1/4"-28	SP-14-*	**2ANX5**	**2ANX2**	**2ANX8**
15/16"	1 3/4"	1/2"	1/4"-28	SP-15-*	**2ANY5**	**2ANY2**	**2ANY8**
1"	1 3/4"	1/2"	1/4"-28	SP-16-*	**2ANZ5**	**2ANZ2**	**2ANZ8**
1 1/16"	1 7/8"	1/2"	1/4"-28	SP-17-*	**2APA5**	**2APA2**	**2APA8**
1 1/8"	1 7/8"	1/2"	1/4"-28	SP-18-*	**2APB5**	**2APB2**	**2APB8**
1 3/16"	2 1/16"	1/2"	1/4"-28	SP-19-*	**2APC5**	**2APC2**	**2APC8**
1 1/4"	2 1/16"	1/2"	1/4"-28	SP-20-*	**2APD5**	**2APD2**	**2APD8**
1 5/16"	2 1/8"	9/16"	1/4"-28	SP-21-*	**2APE5**	**2APE2**	**2APE8**
1 3/8"	2 1/4"	9/16"	1/4"-28	SP-22-*	**2APF5**	**2APF2**	**2APF8**
1 7/16"	2 1/4"	9/16"	1/4"-28	SP-23-*	**2APG5**	**2APG2**	**2APG8**
1 1/2"	2 3/8"	9/16"	1/4"-28	SP-24-*	**2APH5**	**2APH2**	**2APH8**
1 9/16"	2 3/8"	9/16"	1/4"-28	SP-25-*	**2APJ5**	**2APJ2**	**2APJ8**
1 5/8"	2 5/8"	11/16"	5/16"-24	SP-26-*	**2APK5**	**2APK2**	**2APK8**
1 11/16"	2 3/4"	11/16"	5/16"-24	SP-27-*	**2APL5**	**2APL2**	**2APL8**
1 3/4"	2 3/4"	11/16"	5/16"-24	SP-28-*	**2AUZ2**	**2AUY8**	**2AUZ5**
1 13/16"	2 7/8"	11/16"	5/16"-24	SP-29-*	**2APN5**	**2APN2**	**2APN8**
1 7/8"	2 7/8"	11/16"	5/16"-24	SP-30-*	**1BEZ4**	**1BBE3**	**1CEZ9**
1 15/16"	3"	11/16"	5/16"-24	SP-31-*	**2APT5**	**2APT2**	**2APT8**
2"	3"	11/16"	5/16"-24	SP-32-*	**2APU5**	**2APU2**	**2ARF6**
2 1/16"	3 1/8"	3/4"	5/16"-24	SP-33-*	**2APV3**	**2APU9**	**2APV6**
2 1/8"	3 1/4"	3/4"	5/16"-24	SP-34-*	**2APW3**	**2APV9**	**2APW6**
2 3/16"	3 1/4"	3/4"	5/16"-24	SP-35-*	**2APX3**	**2APW9**	**2APX6**
2 1/4"	3 1/4"	3/4"	5/16"-24	SP-36-*	**2APY3**	**2APX9**	**2APY6**
2 5/16"	3 3/8"	3/4"	5/16"-24	SP-37-*	**2APZ3**	**2APY9**	**2APZ6**
2 3/8"	3 1/2"	3/4"	5/16"-24	SP-38-*	**2ARA3**	**2APZ9**	**2ARA6**
2 7/16"	3 1/2"	3/4"	5/16"-24	SP-39-*	**2ARB3**	**2ARA9**	**2ARB6**
2 1/2"	3 3/4"	7/8"	3/8"-24	SP-40-*	**2AUF4**	**2AUF1**	**2AUF7**
2 3/16"	3 7/8"	7/8"	3/8"-24	SP-41-*	**2AUH1**	—	**2AUH3**
2 5/8"	3 7/8"	7/8"	3/8"-24	SP-42-*	**2ACK2**	—	**2AVJ9**
2 11/16"	4"	7/8"	3/8"-24	SP-43-*	**2AUH6**	—	**2ACL2**
2 3/4"	4"	7/8"	3/8"-24	SP-44-*	**2ACL8**	**2ACL5**	**2AUK8**
2 13/16"	4 1/4"	7/8"	3/8"-24	SP-45-*	**2AUL2**	—	**2AUL5**
2 7/8"	4 1/4"	7/8"	3/8"-24	SP-46-*	**2ACN5**	**2ACN2**	**2ACN8**
2 15/16"	4 1/4"	7/8"	3/8"-24	SP-47-*	**2ACP5**	**2ACP2**	**2ACP8**
3"	4 1/4"	7/8"	3/8"-24	SP-48-*	**2ACR5**	**2ACR2**	**2ACR8**

**** To complete manufacturer model number substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.***



No. 5DFH1

RULAND Carefully Made Shaft Collars and Couplings

Quick-Clamping Shaft Collars

- TIR <0.002" (0.05mm)
- RoHS2 and REACH compliant

Designed for quick and easy installation or repositioning with no tools required. Constructed of lightweight anodized aluminum, with stainless steel screws. All materials sourced exclusively from North American mills.

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	Item No.
3/8"	1 1/2"	.394"	M3	QCL-6-A	**5DFH1**
1/2"	1 1/2"	.394"	M3	QCL-8-A	**5DFH2**
5/8"	1 1/2"	.394"	M3	QCL-10-A	**5DFH3**
3/4"	1 63/64"	.512"	M4	QCL-12-A	**5DFH4**
1"	1 63/64"	.512"	M4	QCL-16-A	**5DFH5**
1 1/8"	1 63/64"	.512"	M4	QCL-18-A	**5DFH6**
1 1/4"	2 61/64"	.591"	M5	QCL-20-A	**5DFH7**
1 3/8"	2 61/64"	.591"	M5	QCL-22-A	**5DFH8**
1 1/2"	2 61/64"	.591"	M5	QCL-24-A	**5DFH9**

Looking for Fasteners?

Grainger carries a large selection of Fasteners in a variety of types and sizes. Besides Hex Head and Socket Head Cap Screws, we also carry Nuts, Washers, Wedge Anchors, Anchor Screws, Sleeve Anchors, and more.

For our full selection, go to **Grainger.com®** and search for **Fasteners**.

Set Screw Rigid Couplings

Dayton® RULAND

For soft or predrilled shafts in applications where alignment is critical, no backlash is desired, and flexibility is not required. Lock onto shaft by tightening alloy cup point socket set screws. Dayton® brand has 2 screws. Ruland brand rigid shaft couplings are precision honed with 4 screws.

Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Max. Torque	Max. RPM	Mfr. Model	Item No.
Dayton Zinc-Plated Steel								
Without Keyway								
1/4"	1/2"	3/4"	#10-32	—	70 in.-lb.	3500	6L012	**6L012**
5/16"	5/8"	1"	#10-32	—	90 in.-lb.	3500	6L013	**6L013**
3/8"	3/4"	1"	1/4"-28	—	180 in.-lb.	3500	6L014	**6L014**
With Keyway								
1/2"	1"	1 1/2"	1/4"-28	1/8"	240 in.-lb.	3500	6L015	**6L015**
5/8"	1 1/4"	2"	5/16"-18	3/16"	475 in.-lb.	3500	6L016	**6L016**
3/4"	1 1/2"	2"	5/16"-18	3/16"	575 in.-lb.	3500	6L017	**6L017**
7/8"	1 3/4"	2"	5/16"-18	3/16"	660 in.-lb.	1800	6L018	**6L018**
1"	2"	3"	5/16"-18	1/4"	750 in.-lb.	1800	6L019	**6L019**
1 1/8"	2 1/8"	3"	3/8"-16	1/4"	1200 in.-lb.	1800	3ZN53	**3ZN53**
1 1/4"	2 1/4"	4"	3/8"-16	1/4"	1300 in.-lb.	1800	3ZN50	**3ZN50**
1 3/8"	2 3/8"	4 1/2"	3/8"-16	5/16"	1500 in.-lb.	1800	3ZN51	**3ZN51**
1 1/2"	2 1/2"	4 1/2"	3/8"-16	3/8"	1600 in.-lb.	1800	3ZN52	**3ZN52**
Ruland 1215 Black Oxide Lead Free Steel								
Without Keyway								
1/4"	5/8"	1"	#10-32	—	80 in.-lb.	4000	SCX-4-4-F	**2AEK6**
5/16"	7/8"	1 3/8"	1/4"-20	—	150 in.-lb.	4000	SCX-5-5-F	**2AEK7**
3/8"	7/8"	1 3/8"	1/4"-20	—	200 in.-lb.	4000	SCX-6-6-F	**2AEK8**
With Keyway								
1/2"	1 1/8"	1 3/4"	1/4"-20	1/8"	240 in.-lb.	4000	SCC-8-8-F	**2AEK5**
5/8"	1 5/16"	2"	5/16"-18	3/16"	475 in.-lb.	4000	SCC-10-10-F	**2ARD3**
3/4"	1 1/2"	2 1/4"	5/16"-18	3/16"	600 in.-lb.	4000	SCC-12-12-F	**2ARD4**
7/8"	1 5/8"	2 1/2"	5/16"-18	3/16"	675 in.-lb.	4000	SCC-14-14-F	**2ARD5**
1"	1 3/4"	3"	5/16"-18	1/4"	750 in.-lb.	4000	SCC-16-16-F	**2ARD6**
1 1/8"	1 7/8"	3 1/8"	3/8"-16	1/4"	1200 in.-lb.	4000	SCC-18-18-F	**2ARD7**
1 1/4"	2 1/16"	3 1/4"	3/8"-16	1/4"	1350 in.-lb.	4000	SCC-20-20-F	**2ARD8**
1 3/8"	2 1/2"	3 5/8"	3/8"-16	5/16"	1450 in.-lb.	4000	SCC-22-22-F	**2AEK3**
1 1/2"	2 5/8"	3 7/8"	3/8"-16	3/8"	1600 in.-lb.	4000	SCC-24-24-F	**2AEK4**



Dayton Zinc-Plated Steel without Keyway



Ruland 1215 Black Oxide Lead-Free Steel with Keyway

1- and 2-Pc. Clamp Rigid Couplings

Dayton®

- Max. rpm: 4000
- Black oxide steel

For applications where alignment is critical, no backlash is desired, and flexibility is not required. Wrap around hard or soft shafts without marring. Utilize vibration-resistant socket cap screws. The 2-pc. designs are easy to install; no need to disassemble machinery or components.

Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Max. Torque	Item No.
1-pc. Without Keyway						
1/4"	5/8"	1 1/8"	#4-40	—	25 in.-lb.	**3ZN29**
5/16"	11/16"	1 1/8"	#4-40	—	60 in.-lb.	**3ZN30**
3/8"	7/8"	1 3/8"	#6-32	—	190 in.-lb.	**3ZN31**
1/2"	1 1/8"	1 3/4"	#8-32	—	480 in.-lb.	**3ZN32**
5/8"	1 5/16"	2"	#10-32	—	940 in.-lb.	**3ZN33**
3/4"	1 1/2"	2 1/4"	1/4"-28	—	1950 in.-lb.	**3ZN34**
7/8"	1 5/8"	2 1/2"	1/4"-28	—	2280 in.-lb.	**3ZN35**
1"	1 3/4"	3"	1/4"-28	—	2600 in.-lb.	**3ZN36**
1-pc. With Keyway						
1/2"	1 1/8"	1 3/4"	#8-32	1/8"	480 in.-lb.	**3ZN57**
5/8"	1 5/16"	2"	#10-32	3/16"	940 in.-lb.	**3ZN58**
3/4"	1 1/2"	2 1/4"	1/4"-28	3/16"	1950 in.-lb.	**3ZN59**
7/8"	1 5/8"	2 1/2"	1/4"-28	3/16"	2280 in.-lb.	**3ZN60**
1"	1 3/4"	3"	1/4"-28	1/4"	2600 in.-lb.	**3ZN61**
2-pc. Without Keyway						
3/8"	7/8"	1 3/8"	#6-32	—	190 in.-lb.	**3ZN43**
1/2"	1 1/8"	1 3/4"	#8-32	—	480 in.-lb.	**3ZN44**
5/8"	1 5/16"	2"	#10-32	—	940 in.-lb.	**3ZN45**
3/4"	1 1/2"	2 1/4"	1/4"-28	—	1950 in.-lb.	**3ZN46**
7/8"	1 5/8"	2 1/2"	1/4"-28	—	2280 in.-lb.	**3ZN47**
1"	1 3/4"	3"	1/4"-28	—	2600 in.-lb.	**3ZN48**
2-pc. With Keyway						
1/2"	1 1/8"	1 3/4"	#8-32	1/8"	480 in.-lb.	**3ZN66**
5/8"	1 5/16"	2"	#10-32	3/16"	940 in.-lb.	**3ZN67**
3/4"	1 1/2"	2 1/4"	1/4"-28	3/16"	1950 in.-lb.	**3ZN68**
7/8"	1 5/8"	2 1/2"	1/4"-28	3/16"	2280 in.-lb.	**3ZN69**
1"	1 3/4"	3"	1/4"-28	1/4"	2600 in.-lb.	**3ZN70**



1-pc. Without Keyway



2-pc. With Keyway

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**

RULAND
Carefully Made Shaft Collars and Couplings

1- and 2-Pc. Clamp Rigid Couplings

- Max. rpm: 4000
- Tolerance: +0.002"/0.0005"

For applications in which alignment is critical, no backlash is desired, and flexibility is not required. The couplings wrap around hard or soft shafts without marring. Honed straight bores improve accuracy. Nypatch®-coated hardware resists loosening caused by vibration. Utilize vibration-resistant socket cap screws. Black oxide-coated steel couplings have alloy screws; stainless steel couplings have stainless steel screws. All are RoHS2 and REACH compliant.

1-pc. couplings are machined from solid bar stock sourced exclusively from North American mills.

2-pc. couplings are easy to install without having to disassemble machinery or components. An opposing screw design improves balance and allows operation at higher speeds.



1-pc. 1215 Black Oxide Lead-Free Steel Without Keyway



1-pc. 303 Stainless Steel Without Keyway



2-pc.1215 Black Oxide Lead-Free Steel With Keyway



2-pc. 303 Stainless Steel With Keyway

Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Mfr. Model	1215 BLACK OXIDE LEAD FREE STEEL Max. Torque	1215 BLACK OXIDE LEAD FREE STEEL Item No.	303 STAINLESS STEEL Max. Torque	303 STAINLESS STEEL Item No.
1-pc. Without Keyway									
1/8"	1/2"	13/16"	#2-56	—	CLX-2-2-*	60 in.-lb.	2ALX4	20 in.-lb.	2ALX7
3/16"	9/16"	7/8"	#2-56	—	CLX-3-3-*	60 in.-lb.	2AMB1	20 in.-lb.	2AMB4
3/16" x 1/4"	5/8"	1"	#4-40	—	CLX-4-3-*	200 in.-lb.	2AMC1	60 in.-lb.	2AMC4
1/4"	5/8"	1"	#4-40	—	CLX-4-4-*	200 in.-lb.	2AMD1	60 in.-lb.	2AMD4
1/4" x 3/8"	7/8"	1 3/8"	#6-32	—	CLX-6-4-*	475 in.-lb.	2AME1	145 in.-lb.	2AME4
5/16"	7/8"	1 3/8"	#6-32	—	CLX-5-5-*	450 in.-lb.	2ADN6	—	—
3/8"	7/8"	1 3/8"	#6-32	—	CLX-6-6-*	475 in.-lb.	2AMF1	145 in.-lb.	2AMF4
1/2"	1 1/8"	1 3/4"	#8-32	—	CLX-8-8-*	950 in.-lb.	2AMG7	275 in.-lb.	2AMH1
1/2" x 5/8"	1 5/16"	2"	#10-32	—	CLX-10-8-*	1600 in.-lb.	2ALN3	475 in.-lb.	2ALN5
1/2" x 3/4"	1 1/2"	2 1/4"	1/4"-28	—	CLX-12-8-*	3200 in.-lb.	2ALP6	950 in.-lb.	2ALP8
1/2" x 1"	1 3/4"	3"	1/4"-28	—	CLX-16-8-*	4000 in.-lb.	2ALT8	1200 in.-lb.	2ALU1
1/2" x 3/8"	1 1/8"	1 3/4"	#8-32	—	CLX-8-6-*	950 in.-lb.	2AMF7	275 in.-lb.	2AMG1
5/8"	1 5/16"	2"	#10-32	—	CLX-10-10-*	1600 in.-lb.	2AUW5	475 in.-lb.	2ALN1
5/8" x 3/4"	1 1/2"	2 1/4"	1/4"-28	—	CLX-12-10-*	3200 in.-lb.	2ALN7	950 in.-lb.	2ALN9
5/8" x 7/8"	1 5/8"	2 1/2"	1/4"-28	—	CLX-14-10-*	3600 in.-lb.	2ALR1	1100 in.-lb.	2ALR3
3/4"	1 1/2"	2 1/4"	1/4"-28	—	CLX-12-12-*	3200 in.-lb.	2ALP2	950 in.-lb.	2ALP4
3/4" x 1"	1 3/4"	3"	1/4"-28	—	CLX-16-12-*	4000 in.-lb.	2ALR9	1200 in.-lb.	2ALT2
7/8"	1 5/8"	2 1/2"	1/4"-28	—	CLX-14-14-*	3600 in.-lb.	2ALR5	1100 in.-lb.	2ALR7
1"	1 3/4"	3"	1/4"-28	—	CLX-16-16-*	4000 in.-lb.	2ALT4	1200 in.-lb.	2ALT6
1" x 1 1/8"	1 7/8"	3 1/8"	1/4"-28	—	CLX-18-16-*	4400 in.-lb.	2ALU3	1325 in.-lb.	2ALU5
1" x 1 1/4"	2 1/16"	3 1/4"	1/4"-28	—	CLX-20-16-*	5000 in.-lb.	2ALV2	1500 in.-lb.	2ALV4
1" x 1 3/8"	2 1/2"	3 5/8"	5/16"-24	—	CLX-22-16-*	9600 in.-lb.	2ALW1	2900 in.-lb.	2ALW3
1" x 1 1/2"	2 5/8"	3 7/8"	5/16"-24	—	CLX-24-16-*	10,250 in.-lb.	2ALY1	3100 in.-lb.	2ALY4
1 1/8"	1 7/8"	3 1/8"	1/4"-28	—	CLX-18-18-*	4400 in.-lb.	2ALU7	1325 in.-lb.	2ALU9
1 1/4"	2 1/16"	3 1/4"	1/4"-28	—	CLX-20-20-*	5000 in.-lb.	2ALV6	1500 in.-lb.	2ALV8
1 3/8"	2 1/2"	3 5/8"	5/16"-24	—	CLX-22-22-*	9600 in.-lb.	2ALW5	2900 in.-lb.	2ALW7
1 1/2"	2 5/8"	3 7/8"	5/16"-24	—	CLX-24-24-*	10,250 in.-lb.	2ALY7	3100 in.-lb.	2ALZ1
1 3/4"	3 1/8"	4 1/2"	3/8"-24	—	CLX-28-28-*	18,500 in.-lb.	2ALZ4	5500 in.-lb.	2ALZ7
2"	3 3/8"	4 7/8"	3/8"-24	—	CLX-32-32-*	20,250 in.-lb.	2AMA1	6100 in.-lb.	2AMA4
1-pc. With Keyway									
3/8"	7/8"	1 3/8"	#6-32	3/32"	CLC-6-6-*	475 in.-lb.	2ALL9	145 in.-lb.	2AUV8
1/2"	1 1/8"	1 3/4"	#8-32	1/8"	CLC-8-8-*	950 in.-lb.	2AUW1	275 in.-lb.	2AUW3
5/8"	1 5/16"	2"	#10-32	3/16"	CLC-10-10-*	1600 in.-lb.	2ALG5	475 in.-lb.	2ALG7
3/4"	1 1/2"	2 1/4"	1/4"-28	3/16"	CLC-12-12-*	3200 in.-lb.	2ALG9	950 in.-lb.	2ALH2
7/8"	1 5/8"	2 1/2"	1/4"-28	3/16"	CLC-14-14-*	3600 in.-lb.	2ALH4	1100 in.-lb.	2ALH6
1"	1 3/4"	3"	1/4"-28	1/4"	CLC-16-16-*	4000 in.-lb.	2ALH8	1200 in.-lb.	2ALJ1
1 1/8"	1 7/8"	3 1/8"	1/4"-28	1/4"	CLC-18-18-*	4400 in.-lb.	2ALJ3	1325 in.-lb.	2ALJ5
1 1/4"	2 1/16"	3 1/4"	1/4"-28	1/4"	CLC-20-20-*	5000 in.-lb.	2ALJ7	1500 in.-lb.	2ALJ9
1 3/8"	2 1/2"	3 5/8"	5/16"-24	5/16"	CLC-22-22-*	9600 in.-lb.	2ALK2	2900 in.-lb.	2ALK4
1 1/2"	2 5/8"	3 7/8"	5/16"-24	3/8"	CLC-24-24-*	10,250 in.-lb.	2ALK6	3100 in.-lb.	2ALK8
1 3/4"	3 1/8"	4 1/2"	3/8"-24	3/8"	CLC-28-28-*	18,500 in.-lb.	2ALL1	5500 in.-lb.	2ALL3
2"	3 3/8"	4 7/8"	3/8"-24	1/2"	CLC-32-32-*	20,250 in.-lb.	2ALL5	6100 in.-lb.	2ALL7
2-pc. Without Keyway									
1/4"	5/8"	1"	#4-40	—	SPX-4-4-*	200 in.-lb.	2ACP1	60 in.-lb.	2ACP4
1/4" x 3/8"	7/8"	1 3/8"	#6-32	—	SPX-6-4-*	475 in.-lb.	2ACP7	145 in.-lb.	2ACR1
3/8"	7/8"	1 3/8"	#6-32	—	SPX-6-6-*	475 in.-lb.	2ACR4	145 in.-lb.	2ACR7
1/2" x 3/8"	1 1/8"	1 3/4"	#8-32	—	SPX-8-6-*	950 in.-lb.	2ACT1	275 in.-lb.	2ACT4
1/2"	1 1/8"	1 3/4"	#8-32	—	SPX-8-8-*	950 in.-lb.	2ACT7	275 in.-lb.	2ACU1
1/2" x 5/8"	1 5/16"	2"	#10-32	—	SPX-10-8-*	1600 in.-lb.	2APV7	475 in.-lb.	2APW1
1/2" x 3/4"	1 1/2"	2 1/4"	1/4"-28	—	SPX-12-8-*	3200 in.-lb.	2APX7	950 in.-lb.	2APY1
1/2" x 1"	1 3/4"	3"	1/4"-28	—	SPX-16-8-*	4000 in.-lb.	2ARB2	1200 in.-lb.	2ARB5
5/8"	1 5/16"	2"	#10-32	—	SPX-10-10-*	1600 in.-lb.	2APV1	475 in.-lb.	2APV4
5/8" x 3/4"	1 1/2"	2 1/4"	1/4"-28	—	SPX-12-10-*	3200 in.-lb.	2APW4	950 in.-lb.	2APW7
5/8" x 7/8"	1 5/8"	2 1/2"	1/4"-28	—	SPX-14-10-*	3600 in.-lb.	2APY4	1100 in.-lb.	2APY7
3/4"	1 1/2"	2 1/4"	1/4"-28	—	SPX-12-12-*	3200 in.-lb.	2APX1	950 in.-lb.	2APX4
3/4" x 1"	1 3/4"	3"	1/4"-28	—	SPX-16-12-*	4000 in.-lb.	2APZ8	1200 in.-lb.	2ARA2
7/8"	1 5/8"	2 1/2"	1/4"-28	—	SPX-14-14-*	3600 in.-lb.	2APZ1	1100 in.-lb.	2APZ5
1" x 1 3/8"	2 1/2"	3 5/8"	5/16"-24	—	SPX-22-16-*	9600 in.-lb.	2AUH5	2900 in.-lb.	2AVJ8
1" x 1 1/2"	2 5/8"	3 7/8"	5/16"-24	—	SPX-24-16-*	10,250 in.-lb.	2ACL4	3100 in.-lb.	2ACL7
1"	1 3/4"	3"	1/4"-28	—	SPX-16-16-*	4000 in.-lb.	2ARA5	1200 in.-lb.	2ARA8
1" x 1 1/8"	1 7/8"	3 1/8"	1/4"-28	—	SPX-18-16-*	4400 in.-lb.	2ARB8	1325 in.-lb.	2ARC2
1" x 1 1/4"	2 1/16"	3 1/4"	1/4"-28	—	SPX-20-16-*	5000 in.-lb.	2AUF3	1500 in.-lb.	2AUF6
1 1/8"	1 7/8"	3 1/8"	1/4"-28	—	SPX-18-18-*	4400 in.-lb.	2ARC5	1325 in.-lb.	2ARC8
1 1/4"	2 1/16"	3 1/4"	1/4"-28	—	SPX-20-20-*	5000 in.-lb.	2AUF9	1500 in.-lb.	2ACJ7
1 3/8"	2 1/2"	3 5/8"	5/16"-24	—	SPX-22-22-*	9600 in.-lb.	2AVK2	2900 in.-lb.	2ACL1
1 1/2"	2 5/8"	3 7/8"	5/16"-24	—	SPX-24-24-*	10,250 in.-lb.	2AUK7	3100 in.-lb.	2AUL1
1 3/4"	3 1/8"	4 1/2"	3/8"-24	—	SPX-28-28-*	18,500 in.-lb.	2AUL4	5500 in.-lb.	2ACN1
2"	3 3/8"	4 7/8"	3/8"-24	—	SPX-32-32-*	20,250 in.-lb.	2ACN4	6100 in.-lb.	2ACN7
2-pc. With Keyway									
1/4" x 3/8"	7/8"	1 3/8"	#6-32	3/32" x 3/64"	SPC-6-4-*	475 in.-lb.	1DYF2	145 in.-lb.	1DYF4
3/8"	7/8"	1 3/8"	#6-32	3/32"	SPC-6-6-*	475 in.-lb.	2APT3	145 in.-lb.	2APT6
1/2" x 5/8"	1 5/16"	2"	#10-32	3/16" x 1/8"	SPC-10-8-*	1600 in.-lb.	2APB9	475 in.-lb.	2APC3
1/2" x 3/4"	1 1/2"	2 1/4"	1/4"-28	3/16" x 1/8"	SPC-12-8-*	3200 in.-lb.	2APD9	950 in.-lb.	2APE3
1/2" x 1"	1 3/4"	3"	1/4"-28	1/4" x 1/8"	SPC-16-8-*	4000 in.-lb.	2APH3	1200 in.-lb.	2APH6
1/2" x 3/8"	1 1/8"	1 3/4"	#8-32	1/8" x 3/32"	SPC-8-6-*	950 in.-lb.	2APT9	275 in.-lb.	2APU3
1/2"	1 1/8"	1 3/4"	#8-32	1/8"	SPC-8-8-*	950 in.-lb.	2APU6	275 in.-lb.	2ARF7
5/8"	1 5/16"	2"	#10-32	3/16"	SPC-10-10-*	1600 in.-lb.	2APB3	475 in.-lb.	2APB6
5/8" x 3/4"	1 1/2"	2 1/4"	1/4"-28	3/16"	SPC-12-10-*	3200 in.-lb.	2APC6	950 in.-lb.	2APC9
5/8" x 7/8"	1 5/8"	2 1/2"	1/4"-28	3/16"	SPC-14-10-*	3600 in.-lb.	2APE6	1100 in.-lb.	2APE9
3/4"	1 1/2"	2 1/4"	1/4"-28	3/16"	SPC-12-12-*	3200 in.-lb.	2APD3	950 in.-lb.	2APD6
3/4" x 1"	1 3/4"	3"	1/4"-28	1/4" x 3/16"	SPC-16-12-*	4000 in.-lb.	2APF9	1200 in.-lb.	2APG3
7/8"	1 5/8"	2 1/2"	1/4"-28	3/16"	SPC-14-14-*	3600 in.-lb.	2APF3	1100 in.-lb.	2APF6
1"	1 3/4"	3"	1/4"-28	1/4"	SPC-16-16-*	4000 in.-lb.	2APG6	1200 in.-lb.	2APG9
1" x 1 1/8"	1 7/8"	3 1/8"	1/4"-28	1/4"	SPC-18-16-*	4400 in.-lb.	2APH9	1325 in.-lb.	2APJ3
1" x 1 1/4"	2 1/16"	3 1/4"	1/4"-28	1/4"	SPC-20-16-*	5000 in.-lb.	2APK3	1500 in.-lb.	2APK6
1" x 1 3/8"	2 1/2"	3 5/8"	5/16"-24	5/16" x 1/4"	SPC-22-16-*	9600 in.-lb.	2APL6	2900 in.-lb.	2APL9
1" x 1 1/2"	2 5/8"	3 7/8"	5/16"-24	3/8" x 1/4"	SPC-24-16-*	10,250 in.-lb.	2AUZ6	3100 in.-lb.	2APN3
1 1/8"	1 7/8"	3 1/8"	1/4"-28	1/4"	SPC-18-18-*	4400 in.-lb.	2APJ6	1325 in.-lb.	2APJ9
1 1/4"	2 1/16"	3 1/4"	1/4"-28	1/4"	SPC-20-20-*	5000 in.-lb.	2APK9	1500 in.-lb.	2APL3
1 3/8"	2 1/2"	3 5/8"	5/16"-24	5/16"	SPC-22-22-*	9600 in.-lb.	2AUY9	2900 in.-lb.	2AUZ3
1 1/2"	2 5/8"	3 7/8"	5/16"-24	3/8"	SPC-24-24-*	10,250 in.-lb.	2APN6	3100 in.-lb.	2APN9
1 3/4"	3 1/8"	4 1/2"	3/8"-24	3/8"	SPC-28-28-*	18,500 in.-lb.	2APP3	5500 in.-lb.	2APP6
2"	3 3/8"	4 7/8"	3/8"-24	1/2"	SPC-32-32-*	20,250 in.-lb.	2APP9	6100 in.-lb.	1CFD3

** To complete manufacturer model number substitute "F" for black oxide and "SS" for stainless steel.*



Complete Coupling Assembly



Flange



Sleeve

TB Wood's Incorporated

Sure-Flex Plus® Sleeve Couplings

- Max. angular misalignment: 1° with EPDM sleeves, ¼° with Hytrel® sleeves
- EPDM temp range: -30° to 275°F (-34° to 135°C)
- Hytrel temp. range: -65° to 250°F (-54° to 121°C)

Elastomer-in-shear design offers exceptional torsional flexibility to help protect equipment from misalignment, vibration, and shock loads. No lubrication required.

Note: A complete coupling consists of 2 flanges and 1 sleeve, sold separately.

Coupling Flanges

- Type 3J, 4J, and 5J: sintered carbon steel
- Type 6J and all S: cast iron
- Each has a keyway and 2 set screws

Coupling Sleeves

- JE: 1-pc. solid EPDM rubber
- JES: split 1-pc. EPDM
- E: 2-pc. EPDM rubber with retaining ring
- H: 1-pc. molded Hytrel
- HS: 2-pc. molded Hytrel

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled Coupling Dim. O.D.	Length
Couplings Assembled with Sleeve Type JE, JES								
3	78 in.-lb.	9200	0.12	1.49	2.23	4.46	2.062"	1.97"
4	156 in.-lb.	7600	0.25	2.97	4.46	8.91	2.500"	2.39"
Couplings Assembled with Sleeve Type E, JE, JES								
5	312 in.-lb.	7600	0.50	5.94	8.91	17.82	3.250"	2.84"
6	585 in.-lb.	6000	0.93	11.14	16.71	33.42	4.000"	3.50"
7	940 in.-lb.	5250	1.49	17.90	26.85	53.69	4.625"	3.94"
8	1475 in.-lb.	4500	2.34	28.08	42.13	84.25	5.450"	4.44"
9	2340 in.-lb.	3750	3.71	44.55	66.83	133.66	6.350"	5.06"
10	3735 in.-lb.	3600	5.93	71.11	106.67	213.34	7.500"	5.69"
Couplings Assembled with Sleeve Type H, HS								
6	1800 in.-lb.	6000	2.90	34.27	51.41	98.53	4.000"	3.50"
7	2875 in.-lb.	5250	4.60	54.74	82.11	157.38	4.625"	3.94"
8	4530 in.-lb.	4500	7.20	86.25	129.38	247.97	5.450"	4.44"
9	7200 in.-lb.	3750	11.40	137.09	205.63	394.13	6.350"	5.06"
10	11,350 in.-lb.	3600	18.00	216.10	324.16	621.30	7.500"	5.69"

Coupling Size	Bore Dia. ½"	⅝"	¾"	⅞"	1"	1⅛"	1¼"	1⅜"	1½"	1⅝"	1⅞"	2⅛"	JE Sleeves Item No.	JES Sleeves Item No.	E Sleeves Item No.	H Sleeves Item No.	HS Sleeves Item No.
Coupling Flange (Complete Assembly Requires 2 Coupling Flanges and 1 Sleeve, Sold Separately)																	
Type J Flanges																	
3	32ZR12	32ZR13	32ZR14	32ZR15	—	—	—	—	—	—	—	—	32ZP54	32ZP62	—	—	—
4	32ZR16	32ZR17	32ZR18	32ZR19	32ZR20	—	—	—	—	—	—	—	32ZP55	32ZP63	32ZP70	—	—
5	32ZR21	32ZR22	32ZR23	32ZR24	32ZR25	32ZR26	—	—	—	—	—	—	32ZP56	32ZP64	32ZP71	—	—
6	—	32ZR27	32ZR28	32ZR29	32ZR30	32ZR31	32ZR32	32ZR33	—	—	—	—	32ZP57	32ZP65	32ZP72	—	—
Type S Flanges																	
6	—	—	—	—	49EP53	49EP54	49EP55	49EP56	49EP57	49EP58	—	—	32ZP57	32ZP65	32ZP72	32ZP98	32ZR05
7	—	—	—	32ZR35	32ZR36	32ZR37	32ZR38	32ZR39	32ZR40	32ZR41	—	—	32ZP58	32ZP66	32ZP73	32ZP99	32ZR06
8	—	—	—	32ZR44	32ZR45	32ZR46	32ZR47	32ZR48	32ZR49	32ZR50	32ZR52	32ZR53	32ZP59	32ZP67	32ZP74	32ZR01	32ZR07
9	—	—	—	—	—	32ZR55	32ZR56	32ZR57	32ZR58	32ZR59	32ZR61	32ZR63	32ZP60	32ZP68	32ZP75	32ZR02	32ZR08
10	—	—	—	—	—	—	—	32ZR67	32ZR68	48VF31	32ZR69	32ZR71	32ZP61	32ZP69	32ZP76	32ZR03	32ZR09



Taper Lock Coupling Hub No. 15E696



Coupling Hub No. 15E635



Standard Element



Spacer Element

TB Wood's Incorporated

Dura-Flex® Shaft Couplings

- Temp. range: -40° to 200°F

Split-in-half design allows easy element installation without disturbing shaft connection; no need to move connected equipment. 100% part-for-part interchangeable with popular bonded tire couplings, with design, materials, and construction that are superior to common orange polyurethane coupling elements. The couplings accommodate shaft misalignment and minimize vibration to help prevent damage to connected equipment, and offer a large range of spacing with few parts.

Note: A complete coupling assembly consists of 2 hubs and 1 element, sold separately. Taper-Lock® coupling hubs require Taper-Lock® bushings.

Coupling Size	Taper-Lock® Coupling Hub	Taper-Lock® Required Bushing	FIXED BORE HUB Bore Dia. ⅝"	⅞"	1"	1⅛"	1⅜"	1⅝"	1⅞"	2⅛"	2⅜"	2⅞"	3⅜"
Coupling Hubs (Complete Assembly Requires 2 Coupling Hubs and 1 Element)													
WE2	—	—	15E635	15E637	15E638	15E636	—	—	—	—	—	—	—
WE3	15E696	1008	15E639	15E640	15E641	15E642	15E644	—	—	—	—	—	—
WE4	15E697	1008	—	15E645	—	15E646	15E648	15E649	—	—	—	—	—
WE5	15E698	1108	—	15E650	15E651	15E652	15E653	15E654	15E655	—	—	—	—
WE10	15E699	1310	—	—	15E656	15E657	15E658	15E659	15E660	—	—	—	—
WE20	15E701	1610	—	—	—	15E662	15E663	15E664	—	15E666	15E667	—	—
WE30	15E702	2012	—	—	—	—	15E668	15E669	—	15E671	15E672	15E673	—
WE40	15E703	2517	—	—	—	—	—	15E674	—	15E675	15E676	15E677	15E678
WE50	15E704	2517	—	—	—	—	—	—	—	15E680	15E681	—	15E682
WE60	15E705	3020	—	—	—	—	—	—	—	15E683	15E684	—	15E685

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled O.D.	Standard Element Item No.	Spacer Element Item No.
Coupling Elements									
WE2	190 in.-lb.	7500	.30	3.5	5.3	11	3.7"	15E615	15E625
WE3	365 in.-lb.	7500	.58	6.7	10	20	4.2"	15E616	15E626
WE4	550 in.-lb.	7500	.88	10	15	31	4.5"	15E617	15E627
WE5	925 in.-lb.	7500	1.5	17	26	51	5.4"	15E618	15E628
WE10	1450 in.-lb.	7500	2.3	27	40	81	6.5"	15E619	15E629
WE20	2300 in.-lb.	6600/4800*	3.6	42	64	128	7.4"	15E620	15E630
WE30	3650 in.-lb.	5800/4200*	5.8	67	101	203	8.4"	15E621	15E631
WE40	5500 in.-lb.	5000/3600*	8.8	101	153	305	9.7"	15E622	15E632
WE50	7650 in.-lb.	4200/3100*	12	141	212	425	11.3"	15E623	15E633
WE60	12500 in.-lb.	3800/2800*	19	230	347	694	12.5"	15E624	15E634

** Max. rpm for spacer elements. The higher max. rpm is applicable for spacer elements when using high-speed rings.*

Find information on Keyways and Spiders on page 129.



Sintered Iron Coupling Hub



Hytrel Spider Insert

Jaw Couplings

L-type couplings are designed for close-coupling applications.

Coupling Hubs—Maintenance-free couplings connect to drive shafts to provide dependable power transfer, even in high-temperature applications. Plated metal construction requires no lubrication. Simple design helps assure easy installation and consistent performance. Coupling keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967, GB 1095-1979 standards.

- Max. angular misalignment: 1°
- Max. parallel misalignment: 0.015"

Note: a complete assembly requires 2 hubs and 1 spider, sold separately.

Spider Inserts—Oil- and high temperature-resistant inserts conform to the sintered alloy couplings to help them maintain position and structure for equal power transfer.

- Temp. range: -40° to 100°C (Buna N); -51° to 121°C (Hytrel®)

Size	Rated Torque	HP Rating @ Listed RPM 100	1200	1800	3600	Item No.
Buna N Spider Inserts (Black Color)						
L050	26 in.-lb.	0.04	0.49	0.73	1.47	**29HZ10**
L070	44 in.-lb.	0.07	0.83	1.25	2.51	**29HZ09**
L075	90 in.-lb.	0.14	1.67	2.51	5.03	**29HZ11**
L090/L095	315 in.-lb.	0.23/0.30	2.74/3.69	4.11/5.54	8.23/11.08	**29HZ08**
L099/L100	415 in.-lb.	0.49/0.65	5.99/7.9	8.99/11.85	17.99/23.7	**29HZ07**
L110	788 in.-lb.	1.25	15	22.5	45.01	**29HZ12**
L150	1260 in.-lb.	1.99	23.99	35.98	71.97	**29HZ05**
L190	1702 in.-lb.	2.70	32.4	48.6	97.22	**29HZ06**

Size	Rated Torque	HP Rating @ Listed RPM 100	1200	1800	3600	Item No.
Hytrel® Spider Inserts (Tan Color)						
L070	114 in.-lb.	0.18	2.17	3.25	6.51	**29HZ16**
L075	227 in.-lb.	0.36	4.32	6.48	12.97	**29HZ17**
L090/L095	561 in.-lb.	0.63/0.89	7.63/10.68	11.45/16.02	22.90/32.04	**29HZ18**
L099/L100	1134 in.-lb.	1.36/1.80	16.37/21.59	24.56/32.39	49.12/64.78	**29HZ15**
L110	2268 in.-lb.	3.59	43.18	64.77	129.55	**29HZ14**
L150	3708 in.-lb.	5.88	70.6	105.9	211.8	**29HZ13**
L190	4680 in.-lb.	7.42	89.1	133.66	267.3	**29HZ19**

Size	Outside Dia.	Overall Length**	Bore Dia. ¼"	5/16"	⅜"	7/16"	½"	5/8"	¾"	⅞"	1"	1⅛"	1¼"	1⅜"	1½"	1⅝"	1¾"	1⅞"
Sintered Iron Coupling Hubs																		
L050	1.08"	1.71"	**29HY94** *	**29HY57** *	**29HY74** *	**29HY97** *	**29HY75** *	**29HY76** *	—	—	—	—	—	—	—	—	—	—
L095	2.10"	2.48"	—	—	—	**29HY59**	**29HY98** *	**29HY99**	**29HY88**	**29HY89**	**29HY90**	**29HZ01** *	—	—	—	—	—	—
L070	1.36"	1.98"	—	—	—	**29HY95** *	**29HY77** *	**29HY78**	**29HY79**	—	—	—	—	—	—	—	—	—
L075	1.75"	2.12"	—	—	—	**29HY96** *	**29HY80** *	**29HY81**	**29HY82**	**29HY83**	—	—	—	—	—	—	—	—
L090	2.10"	2.12"	—	—	—	—	**29HY84** *	**29HY85**	**29HY86**	**29HY87**	—	—	—	—	—	—	—	—
L110	3.31"	4.26"	—	—	—	—	—	—	**29HY58**	**29HY67**	**29HY68**	**29HY69**	**29HY70**	**29HY71**	**29HY72**	**29HY73**	—	—
L100	2.53"	3.46"	—	—	—	—	—	—	**29HZ02**	**29HZ03**	**29HZ04**	**29HY91**	**29HY92**	**29HY93**	—	—	—	—
L150	3.75"	4.50"	—	—	—	—	—	—	—	**29HY49**	—	**29HY50**	**29HY51**	**29HY52**	**29HY53**	**29HY54**	**29HY55**	**29HY56**
Steel Coupling Hubs																		
L190	4.50"	4.90"	—	—	—	—	—	—	—	—	**29HY60**	**29HY61**	**29HY62**	**29HY63**	**29HY64**	**29HY65**	—	**29HY66**

** No Keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*



Bost-Bronze Spider Insert



Steel Coupling Hub

Jaw Couplings

Coupling Hubs—3-jaw insert design is complete with keyway and set screw. No lubrication required.

- Standard tolerance: +0.001/-0.000", all bore dimensions

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Bost-Bronz® Spider Inserts—Recommended for high-torque loads, particularly at slower speeds.

- Oil-impregnated
- Temp. range: -60° to 250°F (-51° to 121°C)

Synthetic Rubber Spider Inserts—Recommended where minimal noise is desired, particularly at motor speeds.

- Oil-resistant
- Temp. range: -32° to 200°F (-35° to 93°C)

Polyurethane Spider Inserts—Recommended where moderate-to-heavy shock loads are encountered.

- Temp. range: -32° to 200°F (-35° to 93°C)

Size	Shaft Dia. Range	Rated Torque	HP Rating @ Listed RPM 100	300	690	870	1750	Item No.
Bost-Bronze Spider Inserts								
FC12	⅜-5/8"	200 in.-lb.	0.30	1.0	2.2	2.8	5.6	**2L064**
FC15	½-⅞"	500 in.-lb.	0.80	2.4	5.5	6.9	13.9	**2L067**
FC20	½ - 1⅛"	1000 in.-lb.	1.60	4.8	10.9	13.8	—	**2L070**
FC25	¾-1⅜"	1800 in.-lb.	2.90	8.6	19.7	24.8	—	**2L073**
FC30	1 - 1⅝"	3200 in.-lb.	5.10	15.2	35.0	—	—	**2L076**
FC38	1¼-1⅞"	7000 in.-lb.	11.10	33.3	—	—	—	**2L079**
FC45	1¾-2⅛"	11,000 in.-lb.	17.50	—	—	—	—	**2L082**
Synthetic Rubber Spider Inserts								
FC12	⅜ - 5/8"	65 in.-lb.	0.10	0.3	0.7	0.9	1.8	**2L065**
FC15	½-⅞"	125 in.-lb.	0.20	0.6	1.4	1.7	3.5	**2L068**
FC20	½ - 1⅛"	250 in.-lb.	0.40	1.2	2.7	3.5	6.9	**2L071**
FC25	¾ - 1⅜"	450 in.-lb.	0.70	2.1	4.9	6.2	12.5	**2L074**
FC30	1 - 1⅝"	800 in.-lb.	1.30	3.8	8.8	11.0	22.2	**2L077**
FC38	1¼-1⅞"	1600 in.-lb.	2.50	7.6	17.5	22.1	44.4	**2L080**
FC45	1¾-2⅛"	2800 in.-lb.	4.40	13.3	30.7	38.7	77.7	**2L083**

Size	Shaft Dia. Range	Rated Torque	HP Rating @ Listed RPM 100	300	690	870	1750	Item No.
Polyurethane Spider Inserts								
FC12	⅜ - 5/8"	125 in.-lb.	0.19	0.56	1.2	1.6	3.0	**2L066**
FC15	½-⅞"	250 in.-lb.	0.37	1.1	2.5	3.1	6.0	**2L069**
FC20	½ - 1⅛"	470 in.-lb.	0.70	2.1	4.6	5.7	11.1	**2L072**
FC25	¾ - 1⅜"	845 in.-lb.	1.20	3.7	8.1	10.1	19.3	**2L075**
FC30	1 - 1⅝"	1500 in.-lb.	2.20	6.5	14.4	17.9	34.3	**2L078**
FC38	1¼-1⅞"	3000 in.-lb.	4.30	12.9	28.4	35.3	67.3	**2L081**
FC45	1¾-2⅛"	5250 in.-lb.	7.50	22.4	49.2	61.0	115.9	**2L084**

Size	Outside Dia.	Overall Length*	Bore Dia. ⅜"	7/16"	½"	9/16"	5/8"	¾"	⅞"	15/16"	1"	1⅛"	1⅜"	1¼"	1⅜"	1 7/16"	1½"	1 9/16"	1⅝"	1¾"	1⅞"	2"	2⅛"
Steel Coupling Hubs																							
FC12	1.25"	2.31"	**2L028**	**2L029**	**2L030**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC15	1.50"	2.75"	—	—	**2L031**	**2L032**	**2L033**	**2L034**	**2L035**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC20	2.00"	3.69"	—	—	**2L036**	**2L037**	**2L038**	**2L039**	**2L040**	**2L041**	**6G234**	—	—	—	—	—	—	—	—	—	—	—	—
FC25	2.50"	4.13"	—	—	—	—	—	**2L042**	**2L043**	—	**2L044**	**2L045**	**2L046**	**2L047**	—	—	—	—	—	—	—	—	—
FC30	3.00"	5.47"	—	—	—	—	—	—	—	—	**2L048**	**2L049**	—	**2L050**	**2L051**	**2L052**	**2L053**	—	—	—	—	—	—
FC38	3.75"	6.31"	—	—	—	—	—	—	—	—	—	—	—	**2L054**	—	—	**2L055**	**2L056**	**2L057**	**2L058**	**2L059**	—	—
FC45	4.50"	7.19"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**2L061**	**2L062**	**2L063**
Stainless Steel Coupling Hubs																							
SSFC12	1.25"	2.31"	**36GG27**	—	**36GG28**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC15	1.50"	2.75"	—	—	**36GG30**	—	**36GG31**	**36GG32**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC20	2.00"	3.69"	—	—	—	—	**36GG34**	**36GG35**	**36GG36**	—	**36GG37**	—	—	—	—	—	—	—	—	—	—	—	—
SSFC25	2.50"	4.13"	—	—	—	—	—	**36GG39**	—	—	**36GG40**	—	—	**36GG41**	—	—	—	—	—	—	—	—	—
SSFC30	3.00"	5.47"	—	—	—	—	—	—	—	—	**36GG43**	—	—	**36GG44**	**36GG45**	—	—	—	—	—	—	—	—

** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

How to Determine Keyways and Spiders for Jaw Couplings

Spider Selection Procedure

1. Select a Service Factor (SF) based upon the load classification.
   - Uniform = SF of 1.00
   - Moderate Shock = SF of 1.75
   - Heavy Shock = SF of 2.50
2. Determine design load.
   - Design Torque = Application Torque (T) x SF or Design HP = Application HP x SF
   - T = [HP(63025)]/rpm
3. Select coupling size that has a HP rating equal to or greater than the design load.

Keyway Chart

Use the coupling's bore diameter to determine the required keyway.

Bore	Keyway	Bore	Keyway	Bore	Keyway
½"	⅛ x 1⁄16"	1¼"	¼ x ⅛"	2⅛"	½ x ¼"
⅝"	3⁄16 x 3⁄32"	1⅜"	5⁄16 x 5⁄32"	2¼"	½ x ¼"
¾"	3⁄16 x 3⁄32"	1½"	⅜ x 3⁄16"	2⅜"	⅝ x 5⁄16"
⅞"	3⁄16 x 3⁄32"	1⅝"	⅜ x 3⁄16"	2½"	⅝ x 5⁄16"
1"	¼ x ⅛"	1¾"	⅜ x 3⁄16"	2¾"	⅝ x 5⁄16"
1⅛"	¼ x ⅛"	1⅞"	½ x ¼"	2⅞"	¾ x ⅜"
—	—	2"	½ x ¼"	3⅜"	⅞ x 1⁄16"

Jaw Couplings

TB Wood's Incorporated

An economical choice that's 100% interchangeable with industry-standard L-jaw couplings. No lubrication required. Standard keyway on ⅝" and larger bore sizes; Nos. 4X177, 3KX86, and ¼" to ½" coupling hubs have no keyway (except where footnoted). Spiders have 0.015" max. parallel misalignment. Buna N and urethane spiders have 1° max. angular misalignment and Hytrel® have ½°.

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Buna N Spider Inserts—Made of oil-resistant, long-life material with excellent flexibility.
- Temp. range: -40° to 212°F (-40° to 100°C)

Urethane Spider Inserts—Provide 1.5-times greater torque capability than Buna N but with less dampening. Good resistance to oil and chemicals.
- Temp. range: -30° to 160°F (-34° to 71°C)

Hytrel® Spider Inserts—Provide 2.5-times greater torque capability with excellent oil and chemical resistance compared with Buna N and urethane.
- Temp. range: -60° to 250°F (-51° to 121°C)


Jaw Coupling Hub


Buna N Spider Insert

Size	Outside Dia.	Overall Length**	Bore Dia. ¼"	5⁄16"	⅜"	7⁄16"	½"	⅝"	¾"	⅞"	1"	1⅛"	1¼"	1⅜"	1½"	1⅝"	1¾"	1⅞"
Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																		
Sintered Iron																		
L050	1.08"	1.72"	4X236 ‡	1A417 ‡	4X175 ‡	6X070 ‡	4X176 ‡	4X177 ‡	—	—	—	—	—	—	—	—	—	—
L070	1.36"	2.00"	—	—	—	5X401 ‡	4X178 ‡	4X179	4X180	—	—	—	—	—	—	—	—	—
L075	1.75"	2.13"	—	—	—	5X402 ‡	4X181 ‡	4X182	4X183	4X184	—	—	—	—	—	—	—	—
L075	1.75"	2.13"	—	—	—	1A073 *	5X447 *	—	—	—	—	—	—	—	—	—	—	—
L090	2.11"	2.13"	—	—	—	6JAW6 †	4X185 ‡	4X186	4X187	4X188	—	—	—	—	—	—	—	—
L095	2.11"	2.50"	—	—	—	1A914 †	6X071 ‡	6X072	4X191	4X192	4X193	6X073	—	—	—	—	—	—
L100	2.54"	3.50"	—	—	—	—	—	—	6X074	6X075	6X076	4X194	4X195	4X196	—	—	—	—
L110	3.32"	4.23"	—	—	—	—	—	—	1A418	3X708	3X709	3X710	3X711	3X712	3X713	3X714	—	—
L150	3.75"	4.50"	—	—	—	—	—	—	—	1A405	6JAW7	1A406	1A407	1A408	1A409	1A410	1A411	1A412
L190	4.50"	4.88"	—	—	—	—	—	—	—	—	1A916	1A917	1A918	1A919	1A920	1A921	6JAW8	1A922
Aluminum																		
AL050	1.08"	1.72"	3KX82 ‡	3KX83 ‡	3KX84 ‡	—	3KX85 ‡	3KX86 ‡	—	—	—	—	—	—	—	—	—	—
AL070	1.36"	2.00"	—	—	—	3KX88 ‡	3KX89 ‡	3KX90	3KX91	—	—	—	—	—	—	—	—	—
AL075	1.75"	2.13"	—	—	—	—	3KX93 ‡	3KX95	3KX96	3KX97	—	—	—	—	—	—	—	—
AL075	1.75"	2.13"	—	—	—	—	3KX94 *	—	—	—	—	—	—	—	—	—	—	—
AL090	2.11"	2.13"	—	—	—	—	3KX98 ‡	3KX99	3KZ01	3KZ02	—	—	—	—	—	—	—	—
AL095	2.11"	2.50"	—	—	—	—	3KZ10 ‡	3KZ11	3KZ12	3KZ13	3KZ14	3KZ15	—	—	—	—	—	—
AL100	2.54"	3.50"	—	—	—	—	—	—	3KZ16	3KZ17	3KZ18	3KZ19	3KZ20	3KZ21	—	—	—	—
AL110	3.32"	4.23"	—	—	—	—	—	—	—	—	3KZ22	3KZ23	6JAW9	3KZ24	6JAX0	3KZ25	—	—
L150	3.75"	4.50"	—	—	—	—	—	—	—	—	—	48VF26	48VF25	48VF27	48VF24	48VF28	48VF30	48VF29
Stainless Steel																		
SS075	1.75"	2.13"	—	—	—	—	3KA91 *	3KA93	3KA95	—	—	—	—	—	—	—	—	—
SS095	2.11"	2.50"	—	—	—	—	3KA98 *	3KA99	3KB10	3KB11	3KB12	3KB13	—	—	—	—	—	—
SS100	2.54"	3.50"	—	—	—	—	—	—	3KB14	3KB15	3KB16	3KB17	—	3KB18	—	—	—	—
SS110	3.32"	4.23"	—	—	—	—	—	—	—	—	—	—	—	3KB21	3KB22	—	—	—

** 1/8" x 1/16" keyway. † 3/32 x 3/64 keyway. ‡ No keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Size	Outside Dia.	Overall Length**	Bore Dia. 9mm	10mm	11mm	12mm	14mm	15mm	16mm	17mm	18mm	19mm	20mm	22mm	24mm	25mm	28mm	30mm	32mm	35mm	38mm	40mm	42mm	45mm	48mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																									
Sintered Iron																									
L050	27mm	44.00mm	1CXN8	1CXN9	1CXP1	1CXP2	1CXP3	1CXP4	1CXP5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L070	35mm	51.00mm	—	1CXP6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L075	44mm	54.00mm	—	—	—	—	—	—	—	—	—	1CXP7	1CXP8	1CXP9	—	—	—	—	—	—	—	—	—	—	—
L090	54mm	54.00mm	—	—	—	1CXR1	1CXR2	1CXR3	1CXR4	—	1CXR5	1CXR6	1CXR7	1CXR8	1CXR9	—	—	—	—	—	—	—	—	—	—
L095	54mm	64.00mm	—	—	—	—	1CXT1	1CXT2	1CXT3	1CXT4	1CXT5	1CXT6	1CXT7	1CXT8	1CXT9	1CXU1	1CXU2	—	—	—	—	—	—	—	—
L099	65mm	73.00mm	—	—	—	—	—	—	1CXU4	—	1CXU5	1CXU6	1CXU7	1CXU8	1CXU9	1CXW1	1CXW2	1CXW3	—	—	—	—	—	—	—
L100	65mm	89.00mm	—	—	—	—	1CXW4	1CXW5	1CXW6	—	1CXW7	1CXW8	1CXW9	1CXY1	1CXY2	1CXY3	1CXY4	1CXY5	1CXY6	1CXY7	—	—	—	—	—
L110	84mm	107.00mm	—	—	—	—	—	—	—	—	—	1CXY8	1CXY9	1CXZ1	1CXZ2	1CXZ3	1CXZ4	1CXZ5	1CXZ6	1CXZ7	1CXZ8	1CXZ9	1CYA1	—	—
L150	95mm	114.00mm	—	—	—	—	—	—	—	—	—	—	—	—	1CYA2	1CYA3	—	1CYA5	—	1CYA6	1CYA7	1CYA8	1CYA9	1CYB1	1CYB2
Cast Iron																									
L190	114mm	124.00mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1CYB7	—	—

Size	Outside Dia.	Overall Length**	Bore Dia. 38mm	40mm	42mm	45mm	48mm	50mm	55mm	60mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)										
Cast Iron										
L225		127mm	137.00mm	1CYB9	1CYC1	1CYC2	1CYC3	1CYC4	1CYC5	1CYC6	1CYC7

Size	Rated Torque	HP Rating @ Listed RPM 300	1200	1800	3600	Item No.
Spider Inserts						
Buna N (Black Color)						
L050	26 in.-lb.	0.1	0.5	0.8	1.5	1X409
L070	43 in.-lb.	0.2	0.8	1.2	2.5	1X408
L075	90 in.-lb.	0.4	1.7	2.6	5.0	2X814
L090/L095	144 in.-lb.	0.7/0.9	2.8/3.7	4.1/5.5	8.3/11	1X407
L099/L100	318 in.-lb.	2.0	7.9	12	24	1X406
L110	792 in.-lb.	3.8	15	23	46	3X715
L150	1240 in.-lb.	6.0	24	36	72	1A413
L190	1726 in.-lb.	8.1	32	49	98	1A928
L225	2340 in.-lb.	11	44	67	133	3EMN9
Urethane (Blue Color)						
L050	39 in.-lb.	0.2	0.8	1.1	2.3	3KZ67
L070	65 in.-lb.	0.3	1.3	1.8	3.7	3KX87
L075	135 in.-lb.	0.6	2.5	3.9	7.7	3KX92
L090/L095	216 in.-lb.	1.0/1.4	4.1/5.6	6.2/8.3	12/17	3KZ03

Size	Rated Torque	HP Rating @ Listed RPM 300	1200	1800	3600	Item No.
Spider Inserts (Cont.)						
Urethane (Blue Color) (Cont.)						
L099/L100	477 in.-lb.	3.0	12	18	36	3KZ04
L110	1188 in.-lb.	5.7	23	35	69	3KZ05
L150	1860 in.-lb.	9.0	36	54	108	3KZ06
L190	2592 in.-lb.	12	49	74	147	3KZ07
L225	3510 in.-lb.	16	66	100	200	3EMP1
Hytrel (Tan Color)						
L070	114 in.-lb.	0.5	2.1	3.3	6.5	1A923
L075	227 in.-lb.	1.1	4.2	6.4	13	1A924
L090/L095	401 in.-lb.	1.9/2.7	7.7/11	12/16	23/32	1A925
L099/L100	792 in.-lb.	5.0	22	32	65	1A416
L110	2268 in.-lb.	11	43	65	130	1A415
L150	3708 in.-lb.	18	71	106	212	1A414
L190	4680 in.-lb.	20	89	134	266	1A927
L225	6228 in.-lb.	29	118	178	356	3EMP2

Selection Guide for Universal Joints

Step 1: Find the appropriate correction value for your particular application using the Correction Factor table on the the right. The table is based on "intermittent" application—more than 1 start/stop per hr., with sufficient time for cooling before starting. If your application is continuous—sustained operation with less than 1 stop/start per hr. for up to 8 hr. per day—multiply the value in the table by 2.

Step 2: Multiply your specific torque requirements by the correction value found in Step 1. (Be sure to use in.-lb.)

Step 3: Refer to the "Static Breaking Torque" column in the Universal Joints table to select a joint (solid type or bored type) with the same or greater torque than the in.-lb. number you calculated in Step 2.

Outside Dia.	SOLID TYPE Manufacturer's Model Lovejoy	Curtis	Boston	Browning	Alves	Apex
Part Number Cross Reference Guide						
½"	D-2	C-642	J-50	UJ-4S	S-500	300-8
⅝"	D-3	C-643	J-62	UJ-5S	S-625	300-10
¾"	D-4	C-644	J-75	UJ-6S	S-750	300-12
⅞"	D-5	C-645	J-87	UJ-7S	S-875	300-14
1"	D-6	C-646	J-100	UJ-8S	S-1000	300-16
1⅛"	D-7	C-647	—	UJ-9S	S-1125	—
1¼"	D-8	C-648	J-125	UJ-10S	S-1250	300-20
1½"	D-10	C-650	J-150	UJ-12S	S-1500	300-24
1¾"	D-11	C-651	J-175	UJ-14S	S-1750	300-28
2"	D-12	C-652	J-200	UJ-16S	S-2000	300-32
2½"	D-13	C-653	J-250	UJ-20S	S-2500	400-40
3"	D-14	C-654	J-300	UJ-24S	S-3000	400-48

Operating RPM	Angle of Operation in Degrees 0°	3°	5°	7°	10°	15°	20°	25°
Correction Factor Table								
1800	9	20	34	45	—	—	—	—
1500	8	16	28	39	—	—	—	—
1200	7	13	22	32	40	—	—	—
900	6	11	16	23	34	—	—	—
600	5	8	11	15	22	34	40	—
300	4	5	7	8	11	16	22	28
100	3	4	4	5	6	8	9	11



D Type



Needle Bearing Type

Lovejoy

Universal Joints

Special tapered shape of yokes provides exceptional strength, while allowing full free movement of joint. Standard industrial-type universal joints have pin-and-block design as well as boot-retaining grooves. For applications with angles up to 25° and speeds up to 1750 rpm (6000 rpm for needle-bearing units). Stainless Steel is grade 303.

Outside Dia.	Overall Length	Static Breaking Torque	Keyway	BORED TYPE Max. Bore *	Std. Bore	Mfr. Model	Item No.	SOLID TYPE Max. Bore *	Std. Bore	Mfr. Model	Item No.
Steel, D Type with Keyway and Setscrew											
1"	3⅜"	1560 in.-lb.	⅛ x 1⁄16"	¾"	½"	D-6Bkw/ss	**1CYP6**	—	—	—	—
1⅛"	3½"	2880 in.-lb.	3⁄16 x 3⁄32"	⅞"	⅝"	D-7Bkw/ss	**1CYP7**	—	—	—	—
1¼"	3¾"	5220 in.-lb.	3⁄16 x 3⁄32"	1"	⅝"	D-8B 5/8BE kw/ss	**1CYP8**	—	—	—	—
1¼"	3¾"	5220 in.-lb.	3⁄16 x 3⁄32"	1"	⅝" x ¾"	D-8B ⅝ x ¾ kw/ss	**1CYP9**	—	—	—	—
1¼"	3¾"	5220 in.-lb.	3⁄16 x 3⁄32"	1"	¾"	D-8B 3/4BE kw/ss	**1CYR1**	—	—	—	—
1½"	4¼"	7920 in.-lb.	3⁄16 x 3⁄32"	1⅛"	⅝"	D-10B 5/8BE kw/ss	**1CYR2**	—	—	—	—
1½"	4¼"	7920 in.-lb.	3⁄16 x 3⁄32"	1⅛"	¾"	D-10B 3/4BE kw/ss	**1CYR3**	—	—	—	—
Steel, D Type, No Keyway or Setscrew											
½"	2"	378 in.-lb.	—	⅜"	¼"	D-2B	**1L742**	⅜"	Solid	D-2	**1L730**
⅝"	2¼"	540 in.-lb.	—	½"	5⁄16"	D-3B	**1L743**	½"	Solid	D-3	**1L731**
¾"	2 11⁄16"	768 in.-lb.	—	⅝"	⅜"	D-4B	**1A929**	⅝"	Solid	D-4	**1L732**
⅞"	3"	1176 in.-lb.	—	11⁄16"	7⁄16"	D-5B	**1L744**	11⁄16"	Solid	D-5	**1L733**
1"	3⅜"	1560 in.-lb.	—	¾"	½"	D-6B	**1A930**	¾"	Solid	D-6	**1L734**
1⅛"	3½"	2880 in.-lb.	—	⅞"	9⁄16"	D-7B	**1L745**	⅞"	Solid	D-7	**1L735**
1¼"	3¾"	5220 in.-lb.	—	1"	⅝"	D-8B	**1A931**	1"	Solid	D-8	**1L736**
1½"	4¼"	7920 in.-lb.	—	1⅛"	¾"	D-10B	**1A932**	1⅛"	Solid	D-10	**1L737**
1¾"	5"	10,680 in.-lb.	—	1¼"	⅞"	D-11B	**1L746**	1¼"	Solid	D-11	**1L738**
2"	5 1⁄16"	15,600 in.-lb.	—	1½"	1"	D-12B	**1A933**	1½"	Solid	D-12	**1L739**
Steel, Needle Bearing Type, No Keyway or Setscrew											
1"	3⅜"	1150 in.-lb.	—	¾"	½"	NB-6B	**1CYR4**	—	—	—	—
1¼"	3¾"	2500 in.-lb.	—	1"	⅝"	NB-8B	**1CYR5**	—	—	—	—
1½"	4¼"	4400 in.-lb.	—	1⅛"	¾"	NB-10B	**1CYR6**	—	—	—	—
2"	5 1⁄16"	10,500 in.-lb.	—	1½"	1"	NB-12B	**1CYR7**	—	—	—	—
Stainless Steel, D Type, No Keyway or Setscrew											
¾"	2 11⁄16"	512 in.-lb.	—	⅝"	⅜"	D-4BSS	**1CYT4**	⅝"	Solid	D-4SS	**1CYR8**
1"	3⅜"	1040 in.-lb.	—	¾"	½"	D-6BSS	**1CYT5**	¾"	Solid	D-6SS	**1CYR9**
1¼"	3¾"	3480 in.-lb.	—	1"	⅝"	D-8BSS	**1CYT6**	1"	Solid	D-8SS	**1CYT1**
1½"	4¼"	5280 in.-lb.	—	1⅛"	¾"	D-10BSS	**1CYT7**	1⅛"	Solid	D-10SS	**1CYT2**
2"	5 1⁄16"	10,400 in.-lb.	—	1½"	1"	D-12BSS	**1CYT8**	1½"	Solid	D-12SS	**1CYT3**

** Units may be re-bored to maximum diameter shown.*

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done



Dia.	Keyway	Length 3" Item No.	6" Item No.	9" Item No.	12" Item No.	18" Item No.	24" Item No.	36" Item No.	48" Item No.	60" Item No.	72" Item No.
304 Stainless Steel											
3/8"	3/32" x 3/64"	30F850	30F851	30F852	30F853	—	30F854	30F855	30F856	30F857	30F858
1/2"	1/8" x 1/16"	30F859	30F860	30F861	30F862	—	30F863	30F864	30F865	30F866	30F867
5/8"	3/16" x 3/32"	30F868	30F869	30F870	30F871	—	30F872	30F873	30F874	30F875	30F876
3/4"	3/16" x 3/32"	30F877	30F878	30F879	30F880	—	30F881	30F882	30F883	30F884	30F885
1"	1/4" x 1/8"	30F886	30F887	30F888	30F889	—	30F890	30F891	30F892	30F893	30F894
1 3/16"	1/4" x 1/8"	—	—	—	30F895	—	30F896	30F897	30F898	30F899	30F901
1 1/4"	1/4" x 1/8"	30F902	30F903	30F904	30F905	—	30F906	30F907	30F908	30F909	30F910
1 7/16"	3/8" x 3/16"	—	—	—	30F911	—	30F912	30F913	30F914	30F915	30F916
1 1/2"	3/8" x 3/16"	30F917	30F918	30F919	30F920	—	30F921	30F922	30F923	30F924	30F925
2"	1/2" x 1/4"	30F926	30F927	30F928	30F929	—	30F930	30F931	30F932	30F933	30F934
2 3/16"	1/2" x 1/4"	30F935	30F936	30F937	30F938	—	30F939	30F940	30F941	30F942	30F943
2 7/16"	5/8" x 5/16"	30F944	30F945	30F946	30F947	—	30F948	30F949	30F950	30F951	30F952
316 Stainless Steel											
3/8"	3/32" x 3/64"	30F953	30F954	30F955	30F956	—	30F957	30F958	30F959	30F960	30F961
1/2"	1/8" x 1/16"	30F962	30F963	30F964	30F965	—	30F966	30F967	30F968	30F969	30F970
5/8"	3/16" x 3/32"	30F971	30F972	30F973	30F974	—	30F975	30F976	30F977	30F978	30F979
3/4"	3/16" x 3/32"	30F980	30F981	30F982	30F983	—	30F984	30F985	30F986	30F987	30F988
1"	1/4" x 1/8"	30F989	30F990	30F991	30F992	—	30F993	30F994	30F995	30F996	30F997
1 3/16"	1/4" x 1/8"	—	—	—	30F998	—	30F999	30G001	30G002	30G003	30G004
1 1/4"	1/4" x 1/8"	30G005	30G006	30G007	30G008	—	30G009	30G010	30G011	30G012	30G013
1 7/16"	3/8" x 3/16"	—	—	—	30G014	—	30G015	30G016	30G017	30G018	30G019
1 1/2"	3/8" x 3/16"	30G020	30G021	30G022	30G023	—	30G024	30G025	30G026	30G027	30G028
2"	1/2" x 1/4"	30G029	30G030	30G031	30G032	—	30G033	30G034	30G035	30G036	30G037
2 3/16"	1/2" x 1/4"	30G038	30G039	30G040	30G041	—	30G042	30G043	30G044	30G045	30G046
2 7/16"	5/8" x 5/16"	30G047	30G048	30G049	30G050	—	30G051	30G052	30G053	30G054	30G055
Aluminum											
5/16"	3/32" x 3/64"	—	30G056	—	30G057	—	30G058	—	—	—	—
3/8"	3/32" x 3/64"	—	30G059	—	30G060	—	30G061	—	—	—	—
1/2"	1/8" x 1/16"	—	30G062	—	30G063	—	30G064	—	—	—	—
5/8"	3/16" x 3/32"	—	30G065	—	30G066	—	30G067	—	—	—	—
3/4"	3/16" x 3/32"	—	30G068	—	30G069	—	30G070	—	—	—	—
1"	1/4" x 1/8"	—	30G071	—	30G072	—	30G073	—	—	—	—
Carbon Steel Grade 1045											
5/16"	3/32" x 3/64"	30F543	30F544	30F545	30F546	30F547	30F548	30F549	30F550	30F551	30F552
3/8"	3/32" x 3/64"	30F553	30F554	30F555	30F556	30F557	30F558	30F559	30F560	30F561	30F562
1/2"	1/8" x 1/16"	30F563	30F564	30F565	30F566	30F567	30F568	30F569	30F570	30F571	30F572
5/8"	3/16" x 3/32"	30F573	30F574	30F575	30F576	30F577	30F578	30F579	30F580	30F581	30F582
11/16"	3/16" x 3/32"	30F583	30F584	30F585	30F586	30F587	30F588	30F589	30F590	30F591	30F592
3/4"	3/16" x 3/32"	30F593	30F594	30F595	30F596	30F597	30F598	30F599	30F601	30F602	30F603
13/16"	3/16" x 3/32"	30F604	30F605	30F606	30F607	30F608	30F609	30F610	30F611	30F612	30F613
7/8"	3/16" x 3/32"	30F614	30F615	30F616	30F617	30F618	30F619	30F620	30F621	30F622	30F623
15/16"	1/4" x 1/8"	30F624	30F625	30F626	30F627	30F628	30F629	30F630	30F631	30F632	30F633
1"	1/4" x 1/8"	30F634	30F635	30F636	30F637	30F638	30F639	30F640	30F641	30F642	30F643
1 1/8"	1/4" x 1/8"	30F644	30F645	30F646	30F647	30F648	30F649	30F650	30F651	30F652	30F653
1 3/16"	1/4" x 1/8"	30F654	30F655	30F656	30F657	30F658	30F659	30F660	30F661	30F662	30F663
1 1/4"	1/4" x 1/8"	30F664	30F665	30F666	30F667	30F668	30F669	30F670	30F671	30F672	30F673
1 5/16"	5/16" x 5/32"	30F674	30F675	30F676	30F677	30F678	30F679	30F680	30F681	30F682	30F683
1 3/8"	5/16" x 5/32"	30F684	30F685	30F686	30F687	30F688	30F689	30F690	30F691	30F692	30F693
1 7/16"	3/8" x 3/16"	30F694	30F695	30F696	30F697	30F698	30F699	30F701	30F702	30F703	30F704
1 1/2"	3/8" x 3/16"	30F705	30F706	30F707	30F708	30F709	30F710	30F711	30F712	30F713	30F714
1 5/8"	3/8" x 3/16"	30F715	30F716	30F717	30F718	30F719	30F720	30F721	30F722	30F723	30F724
1 3/4"	3/8" x 3/16"	30F725	30F726	30F727	30F728	30F729	30F730	30F731	30F732	30F733	30F734
1 15/16"	1/2" x 1/4"	30F735	30F736	30F737	30F738	30F739	30F740	30F741	30F742	30F743	30F744
2"	1/2" x 1/4"	30F745	30F746	30F747	30F748	30F749	30F750	30F751	30F752	30F753	30F754
2 3/16"	1/2" x 1/4"	30F755	30F756	30F757	30F758	30F759	30F760	30F761	30F762	30F763	30F764
2 1/4"	1/2" x 1/4"	30F765	30F766	30F767	30F768	30F769	30F770	30F771	30F772	30F773	30F774
2 7/16"	5/8" x 5/16"	30F775	30F776	30F777	30F778	30F779	30F780	30F781	30F782	30F783	30F784
2 1/2"	5/8" x 5/16"	30F785	30F786	30F787	30F788	30F789	30F790	30F791	30F792	30F793	30F794

Dia.	Keyway	Length 300MM Item No.	500MM Item No.	1000MM Item No.	1200MM Item No.	1500MM Item No.	1800MM Item No.
Carbon Steel Grade 1045							
8mm	2mm x 1.2mm	30F795	30F796	30F797	30F798	30F799	30F801
10mm	3mm x 1.8mm	30F802	30F803	30F804	30F805	30F806	30F807
12mm	4mm x 2.5mm	30F808	30F809	30F810	30F811	30F812	30F813
15mm	5mm x 3mm	30F814	30F815	30F816	30F817	30F818	30F819
20mm	6mm x 3.5mm	30F820	30F821	30F822	30F823	30F824	30F825
24mm	8mm x 4mm	30F826	30F827	30F828	30F829	30F830	30F831
25mm	8mm x 4mm	30F832	30F833	30F834	30F835	30F836	30F837
40mm	12mm x 5mm	30F838	30F839	30F840	30F841	30F842	30F843
50mm	14mm x 5.5mm	30F844	30F845	30F846	30F847	30F848	30F849



No. 30F543

KEYSHAFT™
Keyed Shafting

- Dia. tolerance: -0.0005"/-0.0035"
- Key width tolerance: +0.003"/-0.000"
- Straightness tolerance: 0.012" per ft.

All material is furnished as cold-drawn, ground, and polished. Manufactured to ANSI B17.1-1967, R1973 standards.

Stainless Steel, Type 304/316—Corrosion-resistant shafting is suitable for use in food processing applications. Meet ASTM A-276/479, cond. A and QQ-S-763, cond. A specifications.

Aluminum—Lightweight, screw machine-grade aluminum is ideal for robotic applications.

Carbon Steel, Grade 1045—Grade 1045 steel is tougher than basic low-carbon steel, but can still be easily machined for secondary operations. Meet ASTM A-108.

Buy Rotary Shaft Seals on Grainger.com®

AVOID DOWNTIME: LIPPED SEALS HELP KEEP YOUR MACHINES AND EQUIPMENT RUNNING AT PEAK EFFICIENCY

Rotary seals from Grainger are designed to keep lubricants in and contaminants out, so rotating or oscillating components can function at their best. Search for "rotary shaft seals" on Grainger.com.



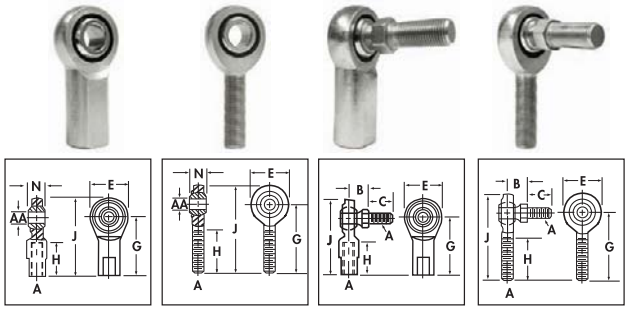
Single Lip Seal



Single Lip with Garter Spring Seal



Lip with Garter Spring and Static Dust Lip Seal



Female, Plain Ball | **Male, Plain Ball** | **Female, Studded Ball** | **Male, Studded Ball**

Steel Spherical Rod Ends

Rod ends allow pivoting in the housing to compensate for misalignment in industrial applications. Metric sizes are available on Grainger.com®.

Note: Not for automotive or aircraft use.

Economical—Feature a precision-ground, chrome-plated hardened 52100 steel spherical ball and 1045 carbon steel body.

Stainless Steel—Feature a precision-ground, hardened 440C stainless steel ball and 300 Series stainless steel body with bonded PTFE fabric race. Excellent for low to moderate load applications where lubricating the parts is not desirable.

Self-Lubricating—Feature a precision-ground, chrome-plated hardened 52100 steel spherical ball, 1045 carbon steel body, and nylon/PTFE compound molded race. Ideal for low to moderate load applications where parts lubrication is not desirable.

Thread Size A	Dimensions AA	E	G	H	J	N	ECONOMICAL Static Radial Load	ECONOMICAL Left Hand Item No.	ECONOMICAL Right Hand Item No.	STAINLESS STEEL Static Radial Load	STAINLESS STEEL Left Hand Item No.	STAINLESS STEEL Right Hand Item No.
Female Plain Ball												
#10-32"	0.190/0.192"	0.625"	1.062"	0.500"	1.375"	0.312"	2079 lb.	**20F960**	**20F959**	1190 lb.	**20G025**	**20G024**
¼-28"	0.250/0.252"	0.750"	1.312"	0.687"	1.687"	0.375"	4197 lb.	**20F962**	**20F961**	2165 lb.	**20G027**	**20G026**
5/16-24"	0.3125/0.3145"	0.875"	1.375"	0.687"	1.813"	0.437"	5110 lb.	**20F964**	**20F963**	3278 lb.	**20G029**	**20G028**
⅜-24"	0.375/0.377"	1.000"	1.625"	0.812"	2.125"	0.500"	6323 lb.	**20F966**	**20F965**	4527 lb.	**20G031**	**20G030**
7/16-20"	0.4375/0.4395"	1.125"	1.812"	0.937"	2.375"	0.562"	7897 lb.	**20F968**	**20F967**	5689 lb.	**20G033**	**20G032**
½-20"	0.500/0.502"	1.312"	2.125"	1.062"	2.781"	0.625"	10,046 lb.	**20F970**	**20F969**	7352 lb.	**20G035**	**20G034**
⅝-18"	0.625/0.627"	1.500"	2.500"	1.375"	3.250"	0.750"	11,385 lb.	**20F972**	**20F971**	8200 lb.	**20G037**	**20G036**
¾-16"	0.750/0.752"	1.750"	2.875"	1.562"	3.750"	0.875"	15,894 lb.	**20F974**	**20F973**	11,595 lb.	**20G039**	**20G038**
Male Plain Ball												
#10-32"	0.190/0.192"	0.625"	1.250"	0.750"	1.563"	0.312"	1558 lb.	**20F976**	**20F975**	1190 lb.	**20G041**	**20G040**
¼-28"	0.250/0.252"	0.750"	1.562"	1.000"	1.937"	0.375"	2835 lb.	**20F978**	**20F977**	2165 lb.	**20G043**	**20G042**
5/16-24"	0.3125/0.3145"	0.875"	1.875"	1.250"	2.313"	0.437"	4517 lb.	**20F980**	**20F979**	3278 lb.	**20G045**	**20G044**
⅜-24"	0.375/0.377"	1.000"	1.938"	1.250"	2.438"	0.500"	6323 lb.	**20F982**	**20F981**	4527 lb.	**20G047**	**20G046**
7/16-20"	0.4375/0.4395"	1.125"	2.125"	1.375"	2.688"	0.562"	7897 lb.	**20F984**	**20F983**	5689 lb.	**20G049**	**20G048**
½-20"	0.500/0.502"	1.312"	2.438"	1.500"	3.094"	0.625"	10,046 lb.	**20F986**	**20F985**	7352 lb.	**20G051**	**20G050**
⅝-18"	0.625/0.627"	1.500"	2.625"	1.625"	3.375"	0.750"	11,385 lb.	**20F988**	**20F987**	8200 lb.	**20G053**	**20G052**
¾-16"	0.750/0.752"	1.750"	2.875"	1.750"	3.750"	0.875"	15,894 lb.	**20F990**	**20F989**	11,595 lb.	**20G055**	**20G054**

Thread Size A	Dimensions B	C	E	G	H	J	ECONOMICAL Static Radial Load	ECONOMICAL Left Hand Item No.	ECONOMICAL Right Hand Item No.	STAINLESS STEEL Static Radial Load	STAINLESS STEEL Left Hand Item No.	STAINLESS STEEL Right Hand Item No.
Female Studded Ball (Female With Stud)												
#10-32"	0.500"	0.500"	0.625"	1.062"	0.500"	1.375"	2079 lb.	**20F992**	**20F991**	1190 lb.	**20G057**	**20G056**
¼-28"	0.469"	0.562"	0.750"	1.312"	0.687"	1.687"	4197 lb.	**20F994**	**20F993**	2165 lb.	**20G059**	**20G058**
5/16-24"	0.532"	0.687"	0.875"	1.375"	0.687"	1.813"	5110 lb.	**20F996**	**20F995**	3278 lb.	**20G061**	**20G060**
⅜-24"	0.656"	0.906"	1.000"	1.625"	0.812"	2.125"	6323 lb.	**20F998**	**20F997**	4527 lb.	**20G063**	**20G062**
7/16-20"	0.688"	1.062"	1.125"	1.812"	0.937"	2.375"	7897 lb.	**20G001**	**20F999**	—	—	—
½-20"	0.875"	1.125"	1.312"	2.125"	1.062"	2.781"	10,046 lb.	**20G003**	**20G002**	7352 lb.	**20G067**	**20G066**
⅝-18"	1.000"	1.500"	1.500"	2.500"	1.375"	3.250"	11,385 lb.	**20G005**	**20G004**	8200 lb.	**20G069**	**20G068**
¾-16"	1.188"	1.812"	1.750"	2.875"	1.562"	3.750"	15,894 lb.	**20G007**	**20G006**	11,595 lb.	**20G071**	**20G070**
Male Studded Ball (Male With Stud)												
#10-32"	0.500"	0.500"	0.625"	1.250"	0.750"	1.563"	1558 lb.	**20G009**	**20G008**	1190 lb.	**20G073**	**20G072**
¼-28"	0.469"	0.562"	0.750"	1.562"	1.000"	1.937"	2835 lb.	**20G011**	**20G010**	2165 lb.	**20G075**	**20G074**
5/16-24"	0.532"	0.687"	0.875"	1.875"	1.250"	2.313"	4517 lb.	**20G013**	**20G012**	—	—	**20G076**
⅜-24"	0.656"	0.906"	1.000"	1.938"	1.250"	2.438"	6323 lb.	**20G015**	**20G014**	4527 lb.	**20G079**	**20G078**
7/16-20"	0.688"	1.062"	1.125"	2.125"	1.375"	2.688"	7897 lb.	**20G017**	**20G016**	5689 lb.	**20G081**	**20G080**
½-20"	0.875"	1.125"	1.312"	2.438"	1.500"	3.094"	10,046 lb.	**20G019**	**20G018**	7352 lb.	**20G083**	**20G082**
⅝-18"	1.000"	1.500"	1.500"	2.625"	1.625"	3.375"	11,385 lb.	**20G021**	**20G020**	8200 lb.	**20G085**	**20G084**
¾-16"	1.188"	1.812"	1.750"	2.875"	1.750"	3.750"	15,894 lb.	**20G023**	**20G022**	—	—	**20G086**

Thread Size A	Dimensions AA	E	G	H	J	N	SELF-LUBRICATING Static Radial Load	SELF-LUBRICATING Left Hand Item No.	SELF-LUBRICATING Right Hand Item No.
Female Plain Ball									
#10-32"	0.190/0.192"	0.625"	1.062"	0.562"	1.375"	0.312"	1210 lb.	**20F895**	**20F894**
½-20"	0.500/0.502"	1.312"	2.125"	1.187"	2.781"	0.625"	6430 lb.	**20F906**	**20F905**
¼-28"	0.250/0.252"	0.750"	1.312"	0.750"	1.687"	0.375"	2470 lb.	**20F897**	**20F896**
¾-16"	0.750/0.752"	1.750"	2.875"	1.750"	3.750"	0.875"	10,900 lb.	**20F910**	**20F909**
⅜-24"	0.375/0.377"	1.000"	1.625"	0.937"	2.125"	0.500"	4100 lb.	**20F902**	**20F901**
5/16-24"	0.3125/0.3145"	0.875"	1.375"	0.750"	1.813"	0.437"	2740 lb.	**20F899**	**20F898**
⅝-18"	0.625/0.627"	1.500"	2.500"	1.500"	3.250"	0.750"	8300 lb.	**20F908**	**20F907**
7/16-20"	0.4375/0.4395"	1.125"	1.812"	1.062"	2.375"	0.562"	5350 lb.	**20F904**	**20F903**
Male Plain Ball									
#10-32"	0.190/0.192"	0.625"	1.250"	0.750"	1.563"	0.312"	1210 lb.	**20F912**	**20F911**
½-20"	0.500/0.502"	1.312"	2.438"	1.500"	3.094"	0.625"	6430 lb.	**20F922**	**20F921**
¼-28"	0.250/0.252"	0.750"	1.562"	1.000"	1.937"	0.375"	2470 lb.	**20F914**	**20F913**
¾-16"	0.750/0.752"	1.750"	2.875"	1.750"	3.750"	0.875"	10,900 lb.	**20F926**	**20F925**
⅜-24"	0.375/0.377"	1.000"	1.938"	1.250"	2.438"	0.500"	4210 lb.	**20F918**	**20F917**
5/16-24"	0.3125/0.3145"	0.875"	1.875"	1.250"	2.313"	0.437"	2740 lb.	**20F916**	**20F915**
⅝-18"	0.625/0.627"	1.500"	2.625"	1.625"	3.375"	0.750"	8300 lb.	**20F924**	**20F923**
7/16-20"	0.4375/0.4395"	1.125"	2.125"	1.375"	2.688"	0.562"	5350 lb.	**20F920**	**20F919**

Thread Size A	Dimensions B	C	E	G	H	J	SELF-LUBRICATING Static Radial Load	SELF-LUBRICATING Left Hand Item No.	SELF-LUBRICATING Right Hand Item No.
Female Studded Ball (Female With Stud)									
#10-32"	0.500"	0.500"	0.625"	1.062"	0.562"	1.375"	1210 lb.	**20F928**	**20F927**
¼-28"	0.469"	0.562"	0.750"	1.312"	0.750"	1.687"	2470 lb.	**20F930**	**20F929**
5/16-24"	0.532"	0.687"	0.875"	1.375"	0.750"	1.813"	2740 lb.	**20F932**	**20F931**
⅜-24"	0.656"	0.906"	1.000"	1.625"	0.937"	2.125"	4100 lb.	**20F934**	**20F933**
7/16-20"	0.688"	1.062"	1.125"	1.812"	1.062"	2.375"	5350 lb.	**20F936**	**20F935**
½-20"	0.875"	1.125"	1.312"	2.125"	1.187"	2.781"	6430 lb.	**20F938**	**20F937**
⅝-18"	1.000"	1.500"	1.500"	2.500"	1.500"	3.250"	8300 lb.	**20F940**	**20F939**
¾-16"	1.188"	1.812"	1.750"	2.875"	1.750"	3.750"	10,900 lb.	**20F942**	**20F941**
Male Studded Ball (Male With Stud)									
#10-32"	0.500"	0.500"	0.625"	1.250"	0.750"	1.563"	1210 lb.	**20F944**	**20F943**
¼-28"	0.469"	0.562"	0.750"	1.562"	1.000"	1.937"	2470 lb.	**20F946**	**20F945**
5/16-24"	0.532"	0.687"	0.875"	1.875"	1.250"	2.313"	2740 lb.	**20F948**	**20F947**
⅜-24"	0.656"	0.906"	1.000"	1.938"	1.250"	2.438"	4210 lb.	**20F950**	**20F949**
7/16-20"	0.688"	1.062"	1.125"	2.125"	1.375"	2.688"	5350 lb.	**20F952**	**20F951**
½-20"	0.875"	1.125"	1.312"	2.438"	1.500"	3.094"	6430 lb.	**20F954**	**20F953**
⅝-18"	1.000"	1.500"	1.500"	2.625"	1.625"	3.375"	8300 lb.	**20F956**	**20F955**
¾-16"	1.188"	1.812"	1.750"	2.875"	1.750"	3.750"	10,900 lb.	**20F958**	**20F957**

Bearing Selection Guide

Factors to consider include unit costs, desired life, load ratings, operating environment, maintenance, and mounting configurations. Testing in the actual operating environment is recommended to determine if a particular bearing unit is suitable for a given application.

LOAD RATINGS FOR BALL BEARING UNITS

Dynamic load capacity is the max. constant radial load that a bearing can support for 1 million revolutions (at 33⅓ rpm for 500 hr.). **Static load capacity** is the max. static load (nonrotating shaft) that a bearing can support without causing permanent deformation. **Max. speed ratings** are based on light loads and expressed by bore size: ½" = 6000 rpm, ⅝" = 5000 rpm, ¾" = 4500 rpm, 1" = 3500 rpm.

LOAD RATINGS FOR BRONZE AND UHMW-PE BEARING UNITS

Bronze and UHMW-PE bearings do not have moving parts and allow for smooth, low-friction motion between 2 solid surfaces. Their load capacities are expressed as a PV factor, which is calculated by multiplying P, the max. pressure in psi on the bearing surface, by V, the max. sliding velocity in surface ft. per min. on the shaft. Actual **PV factor** should not exceed rated max. PV. P and V are calculated using the following formulas:

$$P = \frac{\text{Bearing Load}}{\text{Bearing Dia. X Bearing Length}}$$

V = Shaft Diameter x Shaft rpm x 0.262*

* 0.262 is the constant used for sleeve bearings (dimensions in inches).

Dayton

Pillow Block and Flange Mount Bearings

BALL BEARINGS

Prelubricated ABEC-1 tolerances. Wide inner race with setscrews. Neoprene seal. Temp. range: -30° to 200°F.

Rigid Type—Strong load support in limited mounting area.

Self-Aligning Type—Corrects misalignment up to 2°. Rustproof plated finish. Base mount is 2-pc. and flange mount is 1-pc.

BRONZE BEARINGS

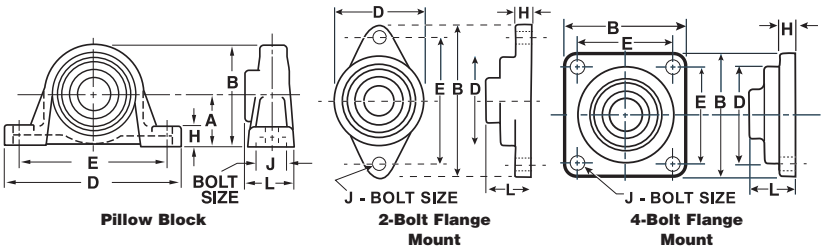
Porous for continuous lubrication. Use in lighter-duty mounted bearing applications. Temp. range: -5° to 220°F.

Rigid Type (Pillow Block Only)—Press-fit plain sleeve bearings. Oiler hole for lubrication.

Self-Aligning Type—Press-fit flanged sleeve bearings. Rustproof plated finish. Large, felt-lined oil reservoir. Oil fillers on base-mount models can be rotated to 4 different positions. Flange-mount models have oil filler at 45° from bolt holes.

UHMW-PE BEARINGS

For washdown applications in wet/harsh environments. Self-lubricating. Interchangeable with most metal units. Temp. range: -60° to 180°F. USDA and FDA approved.



Pillow Block | 2-Bolt Flange Mount | 4-Bolt Flange Mount



A. B. C. D. E.



F. G. H. I.



J. K. L. M. N.

Key	Bore Dia.	Dynamic Load Cap.†	Static Load Cap.	A	B	D	E	H	J	L	Item No.
Pillow Block Ball Bearing, Die Cast Housing, Rigid Type											
A	½"	2877 lb.	1479 lb.	1 1/8"	2 5/16"	4 1/4"	3 3/8"	7/16"	3/8"	1 5/16"	4X723
A	⅝"	2877 lb.	1479 lb.	1 1/8"	2 5/16"	4 1/4"	5 1/8"	7/16"	3/8"	1 5/16"	4X724
A	¾"	2877 lb.	1479 lb.	1 1/8"	2 5/16"	4 1/4"	3 3/8"	7/16"	3/8"	1 5/16"	4X725
A	1"	3153 lb.	1768 lb.	1 1/4"	2 1/2"	4 5/8"	3 5/8"	1/2"	3/8"	1 3/8"	4X726
Pillow Block Ball Bearing, Pressed Steel Housing, Self-Aligning Type, Standard											
B	½"	2152 lb.	1075 lb.	1 5/16"	1 1/8"	4 3/16"	3 3/16"	7/64"	7/16"	1 3/16"	2X897
B	⅝"	2152 lb.	1075 lb.	1 5/16"	1 1/8"	4 3/16"	3 3/16"	7/64"	7/16"	1 3/16"	2X898
B	¾"	2877 lb.	1479 lb.	1 3/16"	2 5/16"	4 9/16"	3 7/16"	1/8"	7/16"	1 3/8"	2X899
B	1"	3153 lb.	1768 lb.	1 3/16"	2 5/16"	4 9/16"	3 7/16"	1/8"	7/16"	1 7/16"	2X900
Pillow Block Ball Bearing, Pressed Steel Housing, Self-Aligning Type, Heavy Gauge											
C	½"	2877 lb.	1479 lb.	1 5/16"	2 3/8"	4 7/16"	3 7/16"	9/64"	7/16"	1 11/16"	2X403
C	⅝"	2877 lb.	1479 lb.	1 5/16"	2 5/8"	4 7/16"	3 7/16"	9/64"	7/16"	1 11/16"	2X404
C	¾"	2877 lb.	1479 lb.	1 5/16"	2 5/8"	4 7/16"	3 7/16"	9/64"	7/16"	1 11/16"	2X405
C	1"	3153 lb.	1768 lb.	1 1/2"	2 7/8"	5 3/16"	4"	9/64"	1/2"	1 7/8"	2X406
Pillow Block Bronze Bearing, Die Cast Housing, Rigid Type											
D	½"	50,000 lb.	—	1"	1 7/8"	3 9/16"	2 13/16"	5/8"	5/16"	1 1/8"	1F630 * ‡
D	⅝"	50,000 lb.	—	1"	1 7/8"	3 9/16"	2 13/16"	5/8"	5/16"	1 1/8"	1F628 * ‡
D	¾"	50,000 lb.	—	1"	1 7/8"	3 9/16"	2 13/16"	5/8"	5/16"	1 1/8"	1F626 * ‡
Pillow Block Bronze Bearing, Pressed Steel Housing, Self-Aligning Type											
E	½"	50,000 lb.	—	1"	2 3/32"	4"	3"	9/64"	7/16"	1 1/8"	2X567 * ‡
E	⅝"	50,000 lb.	—	1"	2 3/32"	4"	3"	9/64"	7/16"	1 1/8"	2X529 * ‡
E	¾"	50,000 lb.	—	1"	2 3/32"	4"	3"	9/64"	7/16"	1 1/8"	2X530 * ‡
E	1"	50,000 lb.	—	1"	2 3/32"	4"	3"	9/64"	7/16"	1 1/8"	2X531 * ‡
Pillow Block UHMW-PE Bearing, Solid Housing, Rigid Type											
F	⅝"	3000 lb.	—	1 3/16"	2 1/16"	4 3/4"	3 3/8"	5/8"	7/16"	1 1/2"	1F622 * ‡
F	¾"	3000 lb.	—	1 5/16"	2 1/2"	5 1/4"	3 3/4"	5/8"	7/16"	1 1/2"	1F620 * ‡
F	1"	3000 lb.	—	1 7/16"	2 3/4"	5 1/2"	4"	3/4"	7/16"	1 1/2"	1F618 * ‡
Pillow Block UHMW-PE Bearing, Pressed Steel Housing, Self-Aligning Type											
G	½"	3000 lb.	—	1"	2"	4"	3"	1/8"	3/8"	1 1/8"	1F638 * ‡
G	⅝"	3000 lb.	—	1"	2"	4"	3"	1/8"	3/8"	1 1/8"	1F636 * ‡
G	¾"	3000 lb.	—	1"	2"	4"	3"	1/8"	3/8"	1 1/8"	1F634 * ‡
G	1"	3000 lb.	—	1"	2"	4"	3"	1/8"	3/8"	1 1/8"	1F632 * ‡

** To calculate PV factor, see bearing selection guide. † Load capacities are based on the ball bearing inserts in each unit. ‡ Max PV Dynamic Load Cap.*

Key	Bore Dia.	Dynamic Load Cap.†	Static Load Cap.	A	B	D	E	H	J	L	Item No.
2-Bolt Flange Mount Ball Bearing, Die Cast Housing, Rigid Type											
H	½"	2152 lb.	1075 lb.	—	3 1/4"	2"	2 1/2	½	9/32 Sq.	1 1/16	1A396
H	⅝"	2152 lb.	1075 lb.	—	3 1/4"	2"	2 1/2	½	9/32 Sq.	1 1/16	1A397
H	¾"	2877 lb.	1479 lb.	—	3 5/8"	2 1/4"	2 13/16	½	11/32 Sq.	1 1/8	1A398
H	1"	3153 lb.	1768 lb.	—	3 7/8"	2 1/2"	3	½	11/32 Sq.	1 3/16	1A399
2-Bolt Flange Mount Ball Bearing, Pressed Steel Housing, Self-Aligning Type											
I	½"	2152 lb.	1075 lb.	—	4"	2"	3	1/16	3/8	1	4X727
I	⅝"	2152 lb.	1075 lb.	—	4"	2"	3	1/16	3/8	1	4X728
I	¾"	2877 lb.	1479 lb.	—	4 1/2"	2 1/2"	3 3/8	1/16	7/16	1 1/8	4X729
I	1"	3153 lb.	1768 lb.	—	4 1/2"	2 1/2"	3 3/8	1/16	7/16	1 1/8	4X730
2-Bolt Flange Mount Bronze Bearing, Pressed Steel Housing, Self-Aligning Type, Heavy Gauge											
J	½"	2877 lb.	1479 lb.	—	5"	3"	4	3/32	7/16	1 3/4	1A400
J	⅝"	2877 lb.	1479 lb.	—	5"	3"	4	3/32	7/16	1 3/4	1A401
J	¾"	2877 lb.	1479 lb.	—	5"	3"	4	3/32	7/16	1 3/4	1A402
J	1"	3153 lb.	1768 lb.	—	5"	3"	4	3/32	7/16	1 3/4	1A403
2-Bolt Flange Mount Bronze Bearing, Pressed Steel Housing, Self-Aligning Type											
K	½"	50,000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	4X815 * ‡
K	⅝"	50,000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	4X816 * ‡
K	¾"	50,000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	4X817 * ‡
K	1"	50,000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	4X818 * ‡
2-Bolt Flange Mount UHMW-PE Bearing, Pressed Steel Housing, Self-Aligning Type											
L	½"	3000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	1F576 * ‡
L	⅝"	3000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	1F574 * ‡
L	¾"	3000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	1F572 * ‡
L	1"	3000 lb.	—	—	4 3/8"	2 3/4"	3 3/8	1/8	7/16	1 1/8	1F570 * ‡
4-Bolt Flange Mount Ball Bearing, Die Cast Housing, Rigid Type											
M	½"	2152 lb.	1075 lb.	—	3"	1 7/8"	2 1/8	3/8	3/8	1 1/32	1F552 *
M	⅝"	2152 lb.	1075 lb.	—	3"	1 7/8"	2 1/8	3/8	3/8	1 1/32	1F550 *
M	¾"	2877 lb.	1479 lb.	—	3 3/8"	2 3/16"	2 1/2	7/16	3/8	1 1/8	1F548 *
M	1"	3153 lb.	1768 lb.	—	3 3/4"	2 5/8"	2 3/4	7/16	7/16	1 1/4	1F546 *
4-Bolt Flange Mount UHMW-PE Bearing, Solid Housing, Rigid Type											
N	½"	3000 lb.	—	—	3"	—	2 1/8	—	7/16	1 1/4	1F560 * ‡
N	⅝"	3000 lb.	—	—	3"	—	2 1/8	—	7/16	1 1/4	1F558 * ‡
N	¾"	3000 lb.	—	—	3 3/8"	—	2 1/2	—	7/16	1 1/4	1F556 * ‡
N	1"	3000 lb.	—	—	3 3/4"	—	2 3/4	—	7/16	1 1/4	1F554 * ‡

Scan. Order. Done.
Details on page A1.



Pillow Block



4-Bolt Flange



2-Bolt Flange

Mounted Ball Bearings

NTN

- Temp. range: -20° to 250°F

Feature cast-iron housings. Elastomeric seal with "flinger" preserves lubricant and keeps contaminants out. Ultra-Class units have solid base construction for optimum load and shock stability and black oxide coating for superior environmental protection.

Bore Dia.	Mounting Surface-to-Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. H	W	L	Mfr. Model	Item No.
Pillow Block, Set Screw								
Light Duty Ultra-Class™								
1/2"	1 3/16"	3 3/8"	3/8"	2 7/16"	1 1/2"	5"	ARP-1/2	**5ZMX1**
5/8"	1 3/16"	3 3/8"	3/8"	2 7/16"	1 1/2"	5"	ARP-5/8	**5ZMX3**
3/4"	1 5/16"	3 25/32"	3/8"	2 9/16"	1 1/2"	5"	ARP-3/4	**5ZMX2**
1"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	ARP-1	**5ZMW9**
1 1/4"	1 11/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	ARP-1.1/4S	**5ZMX0**
Standard Duty General Line								
1/2"	1 3/16"	3 3/4"	3/8"	2 7/16"	1 1/2"	5"	UCP201-008D1	**5ZUF7**
5/8"	1 3/16"	3 3/4"	3/8"	2 7/16"	1 1/2"	5"	UCP202-010D1	**5ZUF8**
3/4"	1 3/16"	3 3/4"	3/8"	2 9/16"	1 1/2"	5"	UCP204-012D1	**5ZUF9**
7/8"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP205-014D1	**5ZUG0**
1"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP205-100D1	**5ZUG1**
1 1/8"	1 11/16"	4 3/4"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP206-102D1	**5ZUG2**
1 3/16"	1 11/16"	4 3/4"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP206-103D1	**5ZUG3**
1 1/4"	1 11/16"	4 3/4"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP206-104D1	**5ZUG4**
1 1/4"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP207-104D1	**5ZUG5**
1 3/8"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP207-106D1	**5ZUG6**
1 7/16"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP207-107D1	**5ZUG7**
1 1/2"	1 15/16"	5 13/32"	1/2"	3 27/32"	2 1/8"	1 15/16"	UCP208-108D1	**5ZUG8**
1 5/8"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP209-110D1	**5ZUG9**
1 11/16"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP209-111D1	**5ZUH0**
1 3/4"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP209-112D1	**5ZUH1**
1 15/16"	2 1/4"	6 1/4"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCP210-115D1	**5ZUH2**
2"	2 1/2"	6 23/32"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCP211-200D1	**5ZUH3**
2 3/16"	2 1/2"	6 23/32"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCP211-203D1	**5ZUH4**
2 7/16"	2 3/4"	7 1/4"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCP212-207D1	**5ZUH5**
Standard Duty Ultra-Class								
1/2"	1 3/16"	3 3/8"	3/8"	2 7/16"	1 1/2"	5"	UCP-1/2M	**5RYT8**
5/8"	1 3/16"	3 5/8"	3/8"	2 7/16"	1 1/2"	5"	UCP-5/8M	**5RYU8**
3/4"	1 5/16"	3 25/32"	3/8"	2 9/16"	1 1/2"	5"	UCP-3/4M	**5RYU7**
7/8"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP-7/8M	**5RYU9**
15/16"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP-15/16M	**5RYT9**
1"	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP-1M	**5RYR3**
1 1/8"	1 11/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP-1.1/8M	**5RYR7**
1 3/16"	1 11/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP-1.3/16M	**5RYT0**
1 1/4"	1 11/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP-1.1/4SM	**5RYR6**
1 1/4"	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP-1.1/4M	**5RYR5**
1 5/16"	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP-1.5/16M	**5RYT3**
1 3/8"	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP-1.3/8M	**5RYT2**
1 7/16"	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP-1.7/16M	**5RYT5**
1 1/2"	1 15/16"	5 3/8"	1/2"	3 27/32"	2 1/8"	7 1/4"	UCP-1.1/2M	**5RYR4**
1 5/8"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP-1.5/8M	**5RYT4**
1 11/16"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP-1.11/16M	**5RYR8**
1 3/4"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCP-1.3/4M	**5RYT1**
1 7/8"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCP-1.7/8M	**5RYT6**
1 15/16"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCP-1.15/16M	**5RYR9**
2"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCP-2SM	**5RYU5**
2"	2 1/2"	6 15/16"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCP-2M	**5RYU0**
2 3/16"	2 1/2"	6 15/16"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCP-2.3/16M	**5RYU2**
2 3/8"	2 3/4"	7 13/32"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCP-2.3/8M	**5RYU3**
2 7/16"	2 3/4"	7 13/32"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCP-2.7/16M	**5RYU4**
2 15/16"	3 1/4"	8 1/2"	3/4"	6 13/32"	2 29/32"	10 13/16"	UCP-2.15/16M	**5RYU1**
3"	3 1/4"	8 1/2"	3/4"	6 13/32"	2 29/32"	10 13/16"	UCP-3M	**5RYU6**
20mm	1 5/16"	3 25/32"	3/8"	2 9/16"	1 1/2"	5"	UCP-20	**46E583**
25mm	1 7/16"	4 1/8"	3/8"	2 25/32"	1 1/2"	5 1/2"	UCP-25	**46E584**
30mm	1 11/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCP-30	**46E585**
35mm	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCP-35	**46E586**
Pillow Block, Low Base, Set Screw								
Standard Duty Ultra-Class								
1/2"	1 1/16"	3 3/8"	3/8"	2 1/8"	1 3/8"	4 3/4"	UCPL-1/2M	**5RYW2**
5/8"	1 1/16"	3 5/8"	3/8"	2 1/8"	1 3/8"	4 3/4"	UCPL-5/8M	**5RYX2**
3/4"	1 1/4"	3 25/32"	3/8"	2 17/32"	1 1/2"	5"	UCPL-3/4M	**5RYX1**
7/8"	1 5/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UCPL-7/8M	**5RYX3**
1"	1 5/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UCPL-1M	**5RYV0**
1 1/8"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCPL-1.1/8M	**5RYV3**
1 3/16"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCPL-1.3/16M	**5RYV6**
1 1/4"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCPL-1.1/4SM	**5RYV2**
1 1/4"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UCPL-1.1/4M	**5RYV1**
1 5/16"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UCPL-1.5/16M	**5RYV9**
1 3/8"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UCPL-1.3/8M	**5RYV8**
1 7/16"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UCPL-1.7/16M	**5RYW0**
1 1/2"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UCPL-1.1/2M	**5RYW1**
1 5/8"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCPL-1.5/8M	**5RYW3**
1 11/16"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCPL-1.11/16M	**5RYW4**
1 3/4"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCPL-1.3/4M	**5RYW7**
1 15/16"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCPL-1.15/16M	**5RYW5**
2"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCPL-2M	**5RYW8**
2 3/16"	2 1/2"	6 15/16"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCPL-2.3/16M	**5RYW6**
2 7/16"	2 3/4"	7 13/32"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCPL-2.7/16M	**5RYW9**
2 15/16"	3 1/4"	8 1/2"	3/4"	6 13/32"	2 29/32"	10 13/16"	UCPL-2.15/16M	**5RYX8**
3"	3 1/4"	8 1/2"	3/4"	6 13/32"	2 29/32"	10 13/16"	UCPL-3M	**5RYX5**
Pillow Block, Low Base, Eccentric Locking Collar								
Standard Duty General Line								
3/4"	1 1/4"	3 3/4"	3/8"	2 17/32"	1 1/2"	5"	UELPL204-012D1W3	**5ZUT4**
1"	1 5/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UELPL205-100D1W3	**5ZUT5**
1 1/8"	1 9/16"	4 3/4"	1/2"	3 9/32"	1 7/8"	6 1/2"	UELPL206-102D1W3	**5ZUT6**
1 3/16"	1 9/16"	4 3/4"	1/2"	3 9/32"	1 7/8"	6 1/2"	UELPL206-103D1W3	**5ZUT7**
1 1/4"	1 13/16"	5"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELP207-104D1W3	**5ZUT8**
1 3/8"	1 13/16"	5"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELPL207-106D1W3	**5ZUT9**
1 7/16"	1 13/16"	5"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELPL207-107D1W3	**5ZUU0**
1 1/2"	1 15/16"	5 13/32"	1/2"	3 27/32"	2 1/8"	7 1/4"	UELPL208-108D1W3	**5ZUU1**
1 11/16"	2 1/16"	5 3/4"	1/2"	4 3/32"	2 1/8"	7 15/32"	UELPL209-111D1W3	**5ZUU2**
1 3/4"	2 1/16"	5 3/4"	1/2"	4 3/32"	2 1/8"	7 15/32"	UELPL209-112D1W3	**5ZUU3**
1 15/16"	2 3/16"	6 1/4"	5/8"	4 13/32"	2 3/8"	8 1/8"	UELPL210-115D1W3	**5ZUU4**
2"	2 1/16"	6 23/32"	5/8"	4 7/8"	2 3/8"	8 5/8"	UELPL211-200D1W3	**5ZUU5**
2 3/16"	2 1/16"	6 23/32"	5/8"	4 7/8"	2 3/8"	8 5/8"	UELPL211-203D1W3	**5ZUU6**
2 7/16"	2 11/16"	7 1/4"	5/8"	5 1/32"	2 3/4"	9 1/2"	UELPL212-207D1W3	**5ZUU7**
Standard Duty Ultra-Class								
5/8"	1 1/16"	3 5/8"	3/8"	2 1/8"	1 3/8"	4 3/4"	UELPL-5/8M	**5RZL4**
3/4"	1 1/4"	3 25/32"	3/8"	2 17/32"	1 1/2"	5"	UELPL-3/4M	**5RZL3**
7/8"	1 5/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UELPL-7/8M	**5RZL5**
15/16"	1 9/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UELPL-15/16M	**5RZK3**
1"	1 9/16"	4 1/8"	3/8"	2 11/16"	1 1/2"	5 1/2"	UELPL-1M	**5RZH9**
1 1/8"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UELPL-1.1/8M	**5RZJ2**
1 3/16"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UELPL-1.3/16M	**5RZJ5**
1 1/4"	1 9/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UELPL-1.1/4SM	**5RZJ1**
1 1/4"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELPL-1.1/4M	**5RZJ0**
1 3/8"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELPL-1.3/8M	**5RZJ7**
1 7/16"	1 13/16"	5 1/8"	1/2"	3 19/32"	1 7/8"	6 9/16"	UELPL-1.7/16M	**5RZK0**
1 5/8"	2 1/8"	5 7/8"	1/2"	4 3/32"	2 1/8"	7 15/32"	UELPL-1.5/8M	**5RZJ9**
1 11/16"	2 1/8"	5 7/8"	1/2"	4 3/32"	2 1/8"	7 15/32"	UELPL-1.11/16M	**5RZJ3**
1 3/4"	2 1/8"	5 7/8"	1/2"	4 3/32"	2 1/8"	7 15/32"	UELPL-1.3/4M	**5RZJ6**
1 7/8"	2 3/16"	6 7/32"	5/8"	4 13/32"	2 3/8"	8 1/8"	UELPL-1.7/8M	**5RZK1**
1 15/16"	2 3/16"	6 7/32"	5/8"	4 13/32"	2 3/8"	8 1/8"	UELPL-1.15/16M	**5RZJ4**
2"	2 7/16"	6 15/16"	5/8"	4 7/8"	2 3/8"	8 5/8"	UELPL-2M	**5RZK4**
2 3/16"	2 7/16"	6 15/16"	5/8"	4 7/8"	2 3/8"	8 5/8"	UELPL-2.3/16M	**5RZK9**
2 1/4"	2 11/16"	7 13/32"	5/8"	5 1/32"	2 3/4"	9 1/2"	UELPL-2.1/4M	**5RZK5**
2 3/8"	2 11/16"	7 13/32"	5/8"	5 1/32"	2 3/4"	9 1/2"	UELPL-2.3/8M	**5RZL0**
2 7/16"	2 11/16"	7 13/32"	5/8"	5 1/32"	2 3/4"	9 1/2"	UELPL-2.7/16M	**5RZL1**
2 11/16"	3"	8"	3/4"	6 1/16"	2 27/32"	10 15/32"	UELPL-2.11/16M	**5RZK7**
2 15/16"	3 5/16"	9 1/2"	3/4"	6 1/2"	2 29/32"	12"	UELPL-2.15/16M	**5RZK8**
Pillow Block, Set Screw								
Medium Duty General Line								
1"	1 3/4"	4 11/16"	1/2"	3 1/32"	2"	6 1/4"	UCPX05-100D1	**5ZUH6**
1 3/16"	1 7/8"	5"	1/2"	3 21/32"	2 1/4"	6 7/8"	UCPX06-103D1	**5ZUH7**
1 7/16"	2 1/8"	5 21/32"	1/2"	4 1/8"	2 1/4"	8"	UCPX07-107D1	**5ZUH8**
1 1/2"	2 5/16"	6 5/32"	5/8"	4 3/8"	2 3/8"	8 3/4"	UCPX08-108D1	**5ZUH9**
1 11/16"	2 5/16"	6 5/32"	5/8"	4 3/16"	2 3/8"	8 3/4"	UCPX09-111D1	**5ZUJ0**
1 3/4"	2 5/16"	6 5/32"	5/8"	4 3/16"	2 3/8"	8 3/4"	UCPX09-112D1	**5ZUJ1**
1 15/16"	2 1/2"	6 23/32"	5/8"	4 31/32"	2 7/8"	9 1/2"	UCPX10-115D1	**5ZUJ2**
2"	2 1/2"	6 23/32"	5/8"	4 31/32"	2 7/8"	9 1/2"	UCPX10-200D1	**5ZUJ3**
2 3/16"	2 3/4"	7 1/4"	3/4"	5 13/32"	3 1/8"	10 1/4"	UCPX11-203D1	**5ZUJ4**
2 7/16"	3"	8"	3/4"	5 15/16"	3 9/32"	11 1/4"	UCPX12-207D1	**5ZUJ5**
2 1/2"	3"	8"	3/4"	6 1/16"	3 9/32"	11 1/4"	UCPX13-208D1	**5ZUJ6**
2 15/16"	3 1/2"	9 1/32"	7/8"	6 7/8"	3 1/2"	13"	UCPX15-215D1	**5ZUJ7**
Medium Duty Ultra-Class								
15/16"	1 1/16"	4 5/8"	3/8"	3 9/32"	1 7/8"	6 1/2"	UCPX-15/16M	**5RYY2**
1"	1 1/16"	4 5/8"	1/2"	3 9/32"	1 7/8"	6 1/2"	UCPX-1M	**5RYX4**
1 3/16"	1 7/8"	5 1/8"	1/2"	3 21/32"	1 7/8"	6 9/16"	UCPX-1.3/16M	**5RYX9**
1 1/4"	2 1/8"	5 3/8"	1/2"	4 1/8"	1 7/8"	7 1/16"	UCPX-1.1/4M	**5RYX6**
1 7/16"	2 1/8"	5 3/8"	1/2"	4 1/8"	1 7/8"	7 1/16"	UCPX-1.7/16M	**5RYY1**
1 1/2"	2 1/8"	5 7/8"	1/2"	4 3/16"	2 1/8"	7 15/32"	UCPX-1.1/2M	**5RYX5**
1 11/16"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCPX-1.11/16M	**5RYX7**
1 3/4"	2 1/4"	6 7/32"	5/8"	4 1/2"	2 3/8"	8 1/8"	UCPX-1.3/4M	**5RYY0**
1 15/16"	2 1/2"	6 15/16"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCPX-1.15/16M	**5RYX8**
2"	2 1/2"	6 15/16"	5/8"	4 31/32"	2 3/8"	8 5/8"	UCPX-2M	**5RYY3**
2 3/16"	2 3/4"	7 13/32"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCPX-2.3/16M	**5RYY8**
2 1/4"	2 3/4"	7 13/32"	5/8"	5 1/16"	2 3/4"	9 1/2"	UCPX-2.1/4M	**5RYY5**
2 7/16"	3"	8"	3/4"	6 1/16"	2 27/32"	10 15/32"	UCPX-2.7/16M	**5RYY9**
2 1/2"	3"	8"	3/4"	6 1/16"	2 27/32"	10 15/32"	UCPX-2.1/2M	**5RYY4**
2 11/16"	3 1/2"	9"	3/4"	7"	3 1/2"	13"	UCPX-2.11/16M	**5RYY6**
2 15/16"	3 1/2"	9"	3/4"	7"	3 1/2"	13"	UCPX-2.15/16M	**5RYY7**
3"	3 1/2"	9"	3/4"	7"	3 1/2"	13"	UCPX-3M	**5RYZ0**
3 7/16"	4"	10 31/32"	3/4"	8"	4 3/16"	14"	UCPX-3.7/16M	**5RYZ2**
3 1/2"	4"	10 31/32"	3/4"	8"	4 3/16"	14"	UCPX-3.1/2M	**5RYZ1**

CONTINUED

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

CONTINUED

Mounted Ball Bearings

NTN

Bore Dia.	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. H	Overall Dim. W	Overall Dim. L	Mfr. Model	Item No.
2-Bolt Flange, Set Screw							
Light Duty Ultra-Class™							
1/2"	3"	3/8"	1 19/64"	2 13/32"	3 27/32"	ARFLU-1/2	5ZMW6
5/8"	3"	3/8"	1 19/64"	2 13/32"	3 27/32"	ARFLU-5/8	5ZMW8
3/4"	3 17/32"	3/8"	1 29/64"	2 13/32"	4 7/16"	ARFLU-3/4	5ZMW7
1"	3 57/64"	7/16"	1 33/64"	2 3/4"	4 29/32"	ARFLU-1	5ZMW2
1 3/16"	4 19/32"	7/16"	1 39/64"	3 9/32"	5 19/32"	ARFLU-1.3/16	5ZMW4
1 1/4"	4 19/32"	7/16"	1 39/64"	3 9/32"	5 19/32"	ARFLU-1.1/4S	5ZMW3
1 7/16"	5 1/8"	7/16"	1 53/64"	3 25/32"	6 5/32"	ARFLU-1.7/16	5ZMW5
Standard Duty General Line							
1/2"	3 39/64"	3/8"	1 5/16"	2 3/8"	4 7/16"	UCFL201-008D1	5ZUC9
5/8"	3 39/64"	3/8"	1 5/16"	2 3/8"	4 7/16"	UCFL202-010D1	5ZUD0
3/4"	3 39/64"	3/8"	1 5/16"	2 3/8"	4 7/16"	UCFL204-012D1	5ZUD1
7/8"	3 57/64"	1/2"	1 13/32"	2 11/16"	5 1/8"	UCFL205-014D1	5ZUD2
15/16"	3 57/64"	1/2"	1 13/32"	2 11/16"	5 1/8"	UCFL205-015D1	5ZUD3
1"	3 57/64"	1/2"	1 13/32"	2 11/16"	5 1/8"	UCFL205-100D1	5ZUD4
1 1/8"	4 39/64"	3/8"	1 37/64"	3 9/32"	5 13/16"	UCFL206-102D1	5ZUD5
1 3/16"	4 39/64"	3/8"	1 37/64"	3 5/32"	5 13/16"	UCFL206-103D1	5ZUD6
1 1/4"	5 1/8"	1/2"	1 3/4"	3 17/32"	6 11/32"	UCFL207-104D1	5ZUD7
1 3/8"	5 1/8"	1/2"	1 3/4"	3 17/32"	6 11/32"	UCFL207-106D1	5ZUD8
1 7/16"	5 1/8"	1/2"	1 3/4"	3 17/32"	6 11/32"	UCFL207-107D1	5ZUD9
1 1/2"	5 43/64"	1/2"	2 1/64"	3 15/16"	6 7/8"	UCFL208-108D1	5ZUE0
1 11/16"	5 53/64"	5/8"	2 1/16"	4 1/4"	7 13/32"	UCFL209-111D1	5ZUE1
1 3/4"	5 53/64"	5/8"	2 1/16"	4 1/4"	7 13/32"	UCFL209-112D1	5ZUE2
1 15/16"	6 3/16"	5/8"	2 9/32"	4 17/32"	7 3/4"	UCFL210-115D1	5ZUE3
2"	7 1/4"	5/8"	2 19/64"	5 1/8"	8 13/16"	UCFL211-200D1	5ZUE4
Standard Duty Ultra-Class							
1/2"	3"	3/8"	1 19/64"	2 13/32"	3 27/32"	UCFLU-1/2M	5RYG8
5/8"	3"	3/8"	1 19/64"	2 13/32"	3 27/32"	UCFLU-5/8M	5RYH4
3/4"	3 17/32"	3/8"	1 15/32"	2 13/32"	4 7/16"	UCFLU-3/4M	5RYH3
15/16"	3 57/64"	3/8"	1 17/32"	2 3/4"	4 29/32"	UCFLU-15/16M	5RYG9
1"	3 57/64"	3/8"	1 17/32"	2 3/4"	4 29/32"	UCFLU-1M	5RYF3
1 1/8"	4 19/32"	3/8"	1 21/32"	3 9/32"	5 19/32"	UCFLU-1.1/8M	5RYF7
1 3/16"	4 19/32"	3/8"	1 21/32"	3 9/32"	5 19/32"	UCFLU-1.3/16M	5RYG0
1 1/4"	4 19/32"	3/8"	1 21/32"	3 9/32"	5 19/32"	UCFLU-1.1/4SM	5RYF6
1 1/4"	5 1/8"	7/16"	1 53/64"	3 25/32"	6 5/32"	UCFLU-1.1/4M	5RYF5
1 3/8"	5 1/8"	7/16"	1 53/64"	3 25/32"	6 5/32"	UCFLU-1.3/8M	5RYG2
1 7/16"	5 1/8"	7/16"	1 53/64"	3 25/32"	6 5/32"	UCFLU-1.7/16M	5RYG5
1 1/2"	5 21/32"	7/16"	2 9/64"	4 1/8"	6 25/32"	UCFLU-1.1/2M	5RYF4
1 9/16"	5 21/32"	7/16"	2 9/64"	4 1/8"	6 25/32"	UCFLU-1.9/16M	5RYG7
1 3/8"	5 27/32"	7/16"	2 9/64"	4 3/8"	7 3/32"	UCFLU-1.5/8M	5RYG4
1 11/16"	5 27/32"	7/16"	2 9/64"	4 3/8"	7 3/32"	UCFLU-1.11/16M	5RYF8
1 3/4"	5 27/32"	7/16"	2 9/64"	4 3/8"	7 3/32"	UCFLU-1.3/4M	5RYG1
1 15/16"	6 3/16"	5/8"	2 25/64"	4 9/16"	7 15/32"	UCFLU-1.15/16M	5RYF9
2"	6 3/16"	5/8"	2 25/64"	4 9/16"	7 15/32"	UCFLU-2SM	5RYH2
2"	7 1/4"	5/8"	2 17/32"	5 9/32"	8 17/32"	UCFLU-2M	5RYH0
2 3/16"	7 1/4"	5/8"	2 17/32"	5 9/32"	8 17/32"	UCFLU-2.3/16M	5RYH1
20mm	3 17/32"	3/8"	1 15/32"	4 7/16"	2 13/32"	UCFLU-20	46E588
25mm	3 57/64"	3/8"	1 17/32"	4 29/32"	2 3/4"	UCFLU-25	46E589
30mm	4 19/32"	7/16"	1 21/32"	5 19/32"	3 9/32"	UCFLU-30	46E590
35mm	5 1/8"	7/16"	1 53/64"	6 5/32"	3 25/32"	UCFLU-35	46E591
40mm	5 21/32"	7/16"	2 9/64"	6 25/32"	4 1/8"	UCFLU-40	46E592
2-Bolt Flange, Eccentric Locking Collar							
Standard Duty General Line							
1"	3 57/64"	3/8"	1 13/16"	2 3/4"	4 29/32"	UELFLU205-100D1W3	5ZUR7
1 3/16"	4 19/32"	3/8"	1 31/32"	3 9/32"	5 19/32"	UELFLU206-103D1W3	5ZUR8
1 1/4"	5 1/8"	1/2"	2 3/32"	3 25/32"	6 5/32"	UELFLU207-104G-6#02	5ZUR9
1 3/8"	5 1/8"	1/2"	2 3/32"	3 29/32"	6 5/32"	UELFLU207-106D1W3	5ZUT0
1 7/16"	5 1/8"	1/2"	2 3/32"	3 29/32"	6 5/32"	UELFL207-107D1W3	5ZUT1
1 3/4"	5 27/32"	1/2"	2 5/16"	4 3/8"	7 3/32"	UELFLU209-112D1W3	5ZUT3
Standard Duty Ultra-Class							
1/2"	3"	3/8"	1 21/32"	2 13/32"	3 27/32"	UELFLU-1/2M	5RZA7
5/8"	3"	3/8"	1 21/32"	2 13/32"	3 27/32"	UELFLU-5/8M	5RZC2
15/16"	3 57/64"	3/8"	1 13/16"	2 3/4"	4 29/32"	UELFLU-15/16M	5RZA8
1"	3 57/64"	3/8"	1 13/16"	2 3/4"	4 29/32"	UELFLU-1M	5RYZ3
1 3/16"	4 19/32"	7/16"	1 31/32"	3 9/32"	5 19/32"	UELFLU-1.3/16M	5RZA0
1 1/4"	4 19/32"	3/8"	1 31/32"	3 9/32"	5 19/32"	UELFLU-1.1/4SM	5RYZ6
1 1/4"	5 1/8"	1/2"	2 3/32"	3 25/32"	6 5/32"	UELFLU-1.1/4M	5RYZ5
1 7/16"	5 1/8"	1/2"	2 3/32"	3 25/32"	6 5/32"	UELFLU-1.7/16M	5RZA5
1 1/2"	5 21/32"	1/2"	2 5/16"	4 1/8"	6 25/32"	UELFLU-1.1/2M	5RYZ4
1 11/16"	5 27/32"	1/2"	2 5/16"	4 3/8"	7 3/32"	UELFLU-1.11/16M	5RYZ8
1 3/4"	5 27/32"	1/2"	2 5/16"	4 3/8"	7 3/32"	UELFLU-1.3/4M	5RZA1
1 7/8"	6 3/16"	5/8"	2 39/64"	4 9/16"	7 15/32"	UELFLU-1.7/8M	5RZA6
1 15/16"	6 3/16"	5/8"	2 39/64"	4 9/16"	7 15/32"	UELFLU-1.15/16M	5RYZ9
2"	7 1/4"	5/8"	2 15/16"	5 9/32"	8 17/32"	UELFLU-2M	5RZA9
2 3/16"	7 1/4"	5/8"	2 15/16"	5 9/32"	8 17/32"	UELFLU-2.3/16M	5RZC0
2-Bolt Flange, Set Screw							
Medium Duty Ultra-Class							
15/16"	4 19/32"	3/8"	1 21/32"	3 9/32"	5 19/32"	UCFLUX-15/16M	5RYJ4
1"	4 19/32"	3/8"	1 21/32"	3 9/32"	5 19/32"	UCFLUX-1M	5RYH6
1 3/16"	5 1/8"	7/16"	1 53/64"	3 25/32"	6 5/32"	UCFLUX-1.3/16M	5RYJ1
1 1/4"	5 1/8"	7/16"	1 53/64"	3 29/32"	6 5/32"	UCFLUX-1.1/4M	5RYH8
1 7/16"	5 21/32"	7/16"	2 9/64"	4 1/8"	6 25/32"	UCFLUX-1.7/16M	5RYJ3
1 1/2"	5 27/32"	7/16"	2 9/64"	4 3/8"	7 3/32"	UCFLUX-1.1/2M	5RYH7
1 11/16"	6 3/16"	9/16"	2 25/64"	4 9/16"	7 15/32"	UCFLUX-1.11/16M	5RYH9
1 3/4"	6 3/16"	9/16"	2 25/64"	4 9/16"	7 15/32"	UCFLUX-1.3/4M	5RYJ2
1 15/16"	7 1/4"	9/16"	2 17/32"	5 9/32"	8 17/32"	UCFLUX-1.15/16M	5RYJ0
2"	7 1/4"	9/16"	2 17/32"	5 9/32"	8 17/32"	UCFLUX-2M	5RYJ5
4-Bolt Flange, Set Screw							
Standard Duty General Line							
3/8"	2 39/64"	3/8"	1 5/16"	3 3/8"	3 3/8"	UCF202-010D1	5RGV8
3/4"	2 39/64"	3/8"	1 5/16"	3 3/8"	3 3/8"	UCF204-012D1	5RGV9
7/8"	2 3/4"	3/8"	1 13/32"	3 3/4"	3 3/4"	UCF205-014D1	5RGW0
1"	2 3/4"	3/8"	1 13/32"	3 3/4"	3 3/4"	UCF205-100D1	5RGW1
1 1/8"	3 17/64"	3/8"	1 37/64"	4 1/4"	4 1/4"	UCF206-102D1	5RGW2
1 3/16"	3 17/64"	3/8"	1 37/64"	4 1/4"	4 1/4"	UCF206-103D1	5RGW3
1 1/4"	3 5/8"	7/16"	1 3/4"	4 19/32"	4 19/32"	UCF207-104D1	5RGW4
1 3/8"	3 5/8"	7/16"	1 3/4"	4 19/32"	4 19/32"	UCF207-106D1	5RGW5
1 7/16"	3 5/8"	7/16"	1 3/4"	4 19/32"	4 19/32"	UCF207-107D1	5RGW6
1 1/2"	4 1/64"	1/2"	2 1/64"	5 1/8"	5 1/8"	UCF208-108D1	5RGW7
1 11/16"	4 9/64"	1/2"	2 1/16"	5 13/32"	5 13/32"	UCF209-111D1	5RGW8
1 3/4"	4 9/64"	1/2"	2 1/16"	5 13/32"	5 13/32"	UCF209-112D1	5RGW9
1 15/16"	4 3/8"	1/2"	2 5/32"	5 5/8"	5 5/8"	UCF210-115D1	5RGX0
2"	5 1/8"	5/8"	2 19/64"	6 3/8"	6 3/8"	UCF211-200D1	5RGX1
2 3/16"	5 1/8"	5/8"	2 19/64"	6 3/8"	6 3/8"	UCF211-203D1	5RGX2
2 7/16"	5 5/8"	5/8"	2 45/64"	6 7/8"	6 7/8"	UCF212-207D1-8	5ZUC8
Standard Duty Ultra-Class							
1/2"	2 1/8"	3/8"	1 19/64"	3"	3"	UCFU-1/2M	5RYL1
5/8"	2 1/8"	3/8"	1 19/64"	3"	3"	UCFU-5/8M	5RYN4
3/4"	2 1/2"	3/8"	1 15/32"	3 3/8"	3 3/8"	UCFU-3/4M	5RYN3
7/8"	2 3/4"	3/8"	1 17/32"	3 25/32"	3 25/32"	UCFU-7/8M	5RYN5
1"	2 3/4"	3/8"	1 17/32"	3 25/32"	3 25/32"	UCFU-1M	5RYJ6
1 1/8"	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFU-1.1/8M	5RYK0
1 3/16"	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFU-1.3/16M	5RYK3
1 1/4"	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFU-1.1/4SM	5RYJ9
1 1/4"	3 5/8"	7/16"	1 53/64"	4 1/32"	4 21/32"	UCFU-1.1/4M	5RYJ8
1 5/16"	3 5/8"	7/16"	1 53/64"	4 1/32"	4 21/32"	UCFU-1.5/16M	5RYK6
1 3/8"	3 5/8"	7/16"	1 53/64"	4 1/32"	4 21/32"	UCFU-1.3/8M	5RYK5
1 7/16"	3 5/8"	7/16"	1 53/64"	4 1/32"	4 21/32"	UCFU-1.7/16M	5RYK8
1 1/2"	4"	7/16"	2 9/64"	5 5/32"	5 5/32"	UCFU-1.1/2M	5RYJ7
1 9/16"	4"	7/16"	2 9/64"	5 5/32"	5 5/32"	UCFU-1.9/16M	5RYL0
1 3/8"	4 1/8"	7/16"	2 9/64"	5 13/32"	5 13/32"	UCFU-1.5/8M	5RYK7
1 11/16"	4 1/8"	7/16"	2 9/64"	5 13/32"	5 13/32"	UCFU-1.11/16M	5RYK1
1 3/4"	4 1/8"	7/16"	2 9/64"	5 13/32"	5 13/32"	UCFU-1.3/4M	5RYK4
1 7/8"	4 3/8"	5/8"	2 25/64"	5 21/32"	5 21/32"	UCFU-1.7/8M	5RYK9
1 15/16"	4 3/8"	5/8"	2 25/64"	5 21/32"	5 21/32"	UCFU-1.15/16M	5RYK2
2"	4 3/8"	5/8"	2 25/64"	5 21/32"	5 21/32"	UCFU-2SM	5RYN1
2"	5 1/8"	5/8"	2 17/32"	6 13/32"	6 13/32"	UCFU-2M	5RYL3
2 1/8"	5 1/8"	5/8"	2 17/32"	6 13/32"	6 13/32"	UCFU-2.1/8M	5RYL5
2 3/16"	5 1/8"	5/8"	2 17/32"	6 13/32"	6 13/32"	UCFU-2.3/16M	5RYL8
2 1/4"	5 5/8"	5/8"	2 29/32"	6 7/8"	6 7/8"	UCFU-2.1/4M	5RYL4
2 3/8"	5 5/8"	5/8"	2 29/32"	6 7/8"	6 7/8"	UCFU-2.3/8M	5RYL9
2 7/16"	5 5/8"	5/8"	2 29/32"	6 7/8"	6 7/8"	UCFU-2.7/16M	5RYN0
2 11/16"	5 1/8"	5/8"	3 1/4"	7 19/32"	7 19/32"	UCFU-2.11/16M	5RYL6
2 15/16"	6"	3/4"	3 23/64"	7 1/8"	7 1/8"	UCFU-2.15/16M	5RYL7
3"	6"	3/4"	3 23/64"	7 1/8"	7 1/8"	UCFU-3M	5RYN2
20mm	2 1/2"	3/8"	1 15/32"	3 3/8"	3 3/8"	UCFU-20	46E578
25mm	2 3/4"	3/8"	1 17/32"	3 25/32"	3 25/32"	UCFU-25	46E579
30mm	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFU-30	46E580
35mm	3 5/8"	7/16"	1 53/64"	4 21/32"	4 21/32"	UCFU-35	46E581
40mm	4"	7/16"	2 9/64"	5 5/32"	5 5/32"	UCFU-40	46E582
4-Bolt Flange, Eccentric Locking Collar							
Standard Duty General Line							
3/4"	2 1/2"	3/8"	1 51/64"	3 3/8"	3 3/8"	UELFU204-012D1W3	5ZUP4
1"	2 3/4"	3/8"	1 13/16"	3 25/32"	3 25/32"	UELFU205-100D1W3	5ZUP5
1 3/16"	3 11/64"	3/8"	1 51/64"	4 1/4"	4 1/4"	UELF206-103D1	5ZUP6
1 1/4"	3 5/8"	1/2"	2 9/16"	4 21/32"	4 21/32"	UELFU207-104D1W3	5ZUP8
1 1/4"	3 3/4"	3/8"	1 51/64"	3 13/32"	4 1/4"	UELFU206-104D1W3	5ZUP7
1 3/8"	3 5/8"	1/2"	2 1/64"	4 21/32"	4 21/32"	UELFU207-106D1W3	5ZUP9
1 7/16"	3 5/8"	7/16"	2 1/64"	4 19/32"	4 19/32"	UELF207-107D1W3	5ZUR0
1 1/2"	4"	1/2"	2 13/64"	5 1/8"	5 1/8"	UELFU208-108D1W3	5ZUR1
1 11/16"	4 9/64"	1/2"	2 15/64"	5 13/32"	5 13/32"	UELFU209-111D1W3	5ZUR2
1 15/16"	4 3/8"	1/2"	2 23/64"	5 5/8"	5 5/8"	UELF210-115D1W3	5ZUR3
2"	5 1/8"	5/8"	2 45/64"	6 3/8"	6 3/8"	UELF211-200D1W3	5ZUR4
2 3/16"	5 1/8"	5/8"	2 45/64"	6 3/8"	6 3/8"	UELF211-203D1W3	5ZUR5
2 7/16"	5 5/8"	5/8"	2 63/64"	6 7/8"	6 7/8"	UELF212-207D1W3	5ZUR6
Standard Duty Ultra-Class							
3/4"	2 1/2"	3/8"	1 51/64"	3 3/8"	3 3/8"	UELFU-3/4M	5RZE9
15/16"	2 3/4"	3/8"	1 13/16"	3 25/32"	3 25/32"	UELFU-15/16M	5RZD9
1"	2 3/4"	3/8"	1 13/16"	3 25/32"	3 25/32"	UELFU-1M	5RZC4
1 3/16"	3 1/4"	3/8"	1 31/32"	4 9/32"	4 9/32"	UELFU-1.3/16M	5RZD1
1 1/4"	3 1/4"	3/8"	1 31/32"	4 9/32"	4 9/32"	UELFU-1.1/4SM	5RZC7
1 1/4"	3 5/8"	3/8"	2 3/32"	4 17/32"	4 21/32"	UELFU-1.1/4M	5RZC6
1 3/8"	3 5/8"	3/8"	2 3/32"	4 17/32"	4 21/32"	UELFU-1.3/8M	5RZD3
1 7/16"	3 5/8"	3/8"	2 3/32"	4 17/32"	4 21/32"	UELFU-1.7/16M	5RZD5
1 1/2"	4"	3/8"	2 5/16"	5 5/32"	5 5/32"	UELFU-1.1/2M	5RZC5
1 9/16"	4"	3/8"	2 5/16"	5 5/32"	5 5/32"	UELFU-1.9/16M	5RZD7
1 5/8"	4 1/8"	3/8"	2 5/16"	5 13/32"	5 13/32"	UELFU-1.5/8M	5RZD4
1 11/16"	4 1/8"	3/8"	2 5/16"	5 13/32"	5 13/32"	UELFU-1.11/16M	5RZC9
1 3/4"	4 1/8"	3/8"	2 5/16"	5 13/32"	5 13/32"	UELFU-1.3/4M	5RZD2
1 7/8"	4 3/8"	5/8"	2 39/64"	5 21/32"	5 21/32"	UELFU-1.7/8M	5RZD6
1 15/16"	4 3/8"	5/8"	2 39/64"	5 21/32"	5 21/32"	UELFU-1.15/16M	5RZD0
2"	4 3/8"	5/8"	2 39/64"	5 21/32"	5 21/32"	UELFU-2SM	5RZE7
2 3/16"	5 1/8"	5/8"	2 15/16"	6 13/32"	6 13/32"	UELFU-2.3/16M	5RZE4
2 1/4"	5 5/8"	5/8"	3 1/16"	6 7/8"	6 7/8"	UELFU-2.1/4M	5RZE1
2 3/8"	5 5/8"	5/8"	3 1/16"	6 7/8"	6 7/8"	UELFU-2.3/8M	5RZE5
2 7/16"	5 5/8"	5/8"	3 1/16"	6 7/8"	6 7/8"	UELFU-2.7/16M	5RZE6
2 11/16"	5 63/64"	3/4"	3 17/32"	7 19/32"	7 19/32"	UELFU-2.11/16M	5RZE2
2 15/16"	6"	3/4"	3 49/64"	7 1/8"	7 1/8"	UELFU-2.15/16M	5RZE3
4-Bolt Flange, Set Screw							
Medium Duty General Line							
1"	3 11/64"	3/8"	1 37/64"	4 1/4"	4 1/4"	UCFX05-100D1	5ZUE5
1 3/16"	3 5/8"	1/2"	1 3/4"	4 19/32"	4 19/32"	UCFX06-103D1	5ZUE6
1 7/16"	4 1/64"	1/2"	2 1/64"	5 1/8"	5 1/8"	UCFX07-107D1	5ZUE7
1 1/2"	4 9/64"	5/8"	2 1/16"	5 13/32"	5 13/32"	UCFX08-108D1	5ZUE8
1 11/16"	4 3/8"	5/8"	2 3/16"	5 5/8"	5 5/8"	UCFX09-111D1	5ZUE9
1 3/4"	4 3/8"	5/8"	2 3/16"	5 5/8"	5 5/8"	UCFX09-112D1	5ZUF0
1 15/16"	5 1/8"	5/8"	2 11/32"	6 3/8"	6 3/8"	UCFX10-115D1	5ZUF1
2"	5 1/8"	5/8"	2 11/32"	6 3/8"	6 3/8"	UCFX10-200D1	5ZUF2
2 3/16"	5 5/8"	5/8"	2 45/64"	6 7/8"	6 7/8"	UCFX11-203D1	5ZUF3
2 1/2"	5 55/64"	5/8"	3 3/32"	7 3/8"	7 3/8"	UCFX13-208D1	5ZUF4
2 11/16"	5 63/64"	3/4"	3 13/64"	7 3/4"	7 3/4"	UCFX14-211D1	5ZUF5
2 15/16"	5 63/64"	3/4"	3 33/64"	7 3/4"	7 3/4"	UCFX15-215D1	5ZUF6
Medium Duty Ultra-Class							
15/16"	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFUX-15/16M	5RYP4
1"	3 1/4"	3/8"	1 21/32"	4 9/32"	4 9/32"	UCFUX-1M	5RYN6
1 3/16"	3 5/8"	7/16"	1 53/64"	4 17/32"	4 21/32"	UCFUX-1.3/16M	5RYP1
1 1/4"	3 5/8"	7/16"	1 53/64"	4 17/32"	4 21/32"	UCFUX-1.1/4M	5RYN8
1 7/16"	4"	7/16"	2 9/64"	5 5/32"	5 5/32"	UCFUX-1.7/16M	5RYP3
1 1/2"	4 1/8"	7/16"	2 9/64"	5 13/32"	5 13/32"	UCFUX-1.1/2M	5RYN7
1 11/16"	4 3/8"	5/8"	2 25/64"	5 21/32"	5 21/32"	UCFUX-1.11/16M	5RYN9
1 3/4"	4 3/8"	5/8"	2 25/64"	5 21/32"	5 21/32"	UCFUX-1.3/4M	5RYP2
1 15/16"	5 1/8"	5/8"	2 17/32"	6 13/32"	6 13/32"	UCFUX-1.15/16M	5RYP0
2"	5 1/8"	5/8"	2 17/32"	6 13/32"	6 13/32"	UCFUX-2M	5RYP5
2 3/16"	5 5/8"	5/8"	2 29/32"	6 7/8"	6 7/8"	UCFUX-2.3/16M	5RYR0
2 1/4"	5 5/8"	5/8"	2 29/32"	6 7/8"	6 7/8"	UCFUX-2.1/4M	5RYP7
2 7/16"	5 7/8"	5/8"	3 1/4"	7 19/32"	7 19/32"	UCFUX-2.7/16M	5RYR1
2 1/2"	5 7/8"	5/8"	3 1/4"	7 19/32"	7 19/32"	UCFUX-2.1/2M	5RYP6
2 11/16"	6"	3/4"	3 23/64"	7 1/8"	7 1/8"	UCFUX-2.11/16M	5RYP8
2 15/16"	6"	3/4"	3 9/16"	7 1/8"	7 1/8"	UCFUX-2.15/16M	5RYP9
3"	6"	3/4"	3 9/16"	7 1/8"	7 1/8"	UCFUX-3M	5RYR2



Pillow Block Mount
No. 3FCP4



2-Bolt Flange Mount
No. 3FCV3



4-Bolt Flange Mount
No. 3FCX4



Rubber Mount
No. 3FDF1

Mounted Ball Bearings

- Temp. range: -20° to 200°F
- 52100 Grade 10 chrome steel ball bearings

Pillow block and flange-mount bearings are prelubricated and regreaseable with a rubber seal and cast-iron housing. Rubber-mounted bearings are lubricated, not regreaseable, and feature a rubber seal and housing.

Nickel-Plated Bearings—For corrosive environments or where a decorative finish is preferred.

Air Handling and Rubber-Mounted Bearings—Designed to reduce noise and vibration in HVAC applications. Rubber mounted 52100 chrome steel ball bearing features rubber seals and is designed to reduce noise and vibration in HVAC applications.

Bore Dia.	Mounting Surface to Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall H	Overall W	Overall L	Item No.
Pillow Block, Light Duty, Set Screw							
½"	1 3/16"	3 5/8"	3/8"	2 1/4"	1 7/32"	4 7/8"	3CUR1
5/8"	1 3/16"	3 5/8"	3/8"	2 1/4"	1 7/32"	4 7/8"	3CUR2
3/4"	1 5/16"	3 3/4"	7/16"	2 31/64"	1 1/2"	5	3FGA3
1"	1 7/16"	4 1/8"	7/16"	2 3/4"	1 1/2"	5 1/2"	3FGA4
1 1/4"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FCN1
Pillow Block, Standard Duty, Set Screw							
½"	1 3/16"	3 3/4"	3/8"	2 15/32"	1 1/2"	5	3FCN9
5/8"	1 3/16"	3 3/4"	3/8"	2 15/32"	1 1/2"	5	3FCP1
3/4"	1 5/16"	3 3/4"	3/8"	2 31/64"	1 1/2"	5	3FCP2
7/8"	1 7/16"	4 1/8"	3/8"	2 3/4"	1 1/2"	5	3FCP3
1"	1 7/16"	4 1/8"	3/8"	2 3/4"	1 1/2"	5 1/2"	3FCP4
1 1/8"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FCP5
1 3/16"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FCP6
1 1/4"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	3FCP7
1 1/4"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FCP8
1 3/8"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	3FCP9
1 7/16"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	3FCR1
1 1/2"	1 15/16"	5 13/32"	1/2"	3 27/32"	2 1/8"	7 1/4"	3FCR2
1 5/8"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	3FCR3
1 11/16"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	3FCR4
1 3/4"	2 1/8"	5 3/4"	1/2"	4 3/16"	2 1/8"	7 15/32"	3FCR5
1 15/16"	2 1/4"	6 1/4"	5/8"	4 7/16"	2 3/8"	8 1/8"	3FCR6
2"	2 1/2"	6 23/32"	5/8"	4 7/8"	2 3/8"	8 5/8"	3FCR8
2 3/16"	2 1/2"	6 23/32"	5/8"	4 7/8"	2 3/8"	8 5/8"	3FCR7
2 7/16"	2 3/4"	7 1/4"	5/8"	5 7/16"	2 3/4"	9 1/2"	3FCR9
Pillow Block, Nickel-Plated Standard Duty, Set Screw							
5/8"	1 3/16"	3 3/4"	3/8"	2 31/64"	1 1/2"	5	3FDD5
3/4"	1 5/16"	3 3/4"	3/8"	2 31/64"	1 1/2"	5	3FDD6
1"	1 7/16"	4 1/8"	3/8"	2 3/4"	1 1/2"	5 1/2"	3FDD7
1 3/16"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FDD8
Pillow Block, Air Handling Standard Duty, Set Screw							
5/8"	1 5/16"	3 3/4"	3/8"	2 31/64"	1 1/2"	5	3FDA3
3/4"	1 5/16"	3 3/4"	3/8"	2 31/64"	1 1/2"	5	3FDA4
1"	1 7/16"	4 1/8"	3/8"	2 3/4"	1 1/2"	5 1/2"	3FDA5
1 3/16"	1 11/16"	4 3/4"	1/2"	3 5/16"	1 7/8"	6 1/2"	3FDA1
1 1/4"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	3FDA2
1 7/16"	1 7/8"	5"	1/2"	3 21/32"	1 7/8"	6 9/16"	3FDA6
1 15/16"	2 1/4"	6 1/4"	1/2"	4 7/16"	2 3/8"	8 1/8"	3FDA7
Pillow Block, Standard Duty, Eccentric Locking Collar							
5/8"	1 1/4"	3 3/4"	3/8"	2 17/32"	1 3/4"	5	3FCT1
3/4"	1 1/4"	3 3/4"	3/8"	2 17/32"	1 3/4"	5	3FCT2
1"	1 5/16"	4 1/8"	3/8"	2 11/16"	1 3/4"	5 1/2"	3FCT3
1 1/8"	1 9/16"	4 3/4"	1/2"	3 3/16"	2"	6 1/2"	3FCT4
1 3/16"	1 9/16"	4 3/4"	1/2"	3 3/16"	2"	6 1/2"	3FCT5
1 1/4"	1 13/16"	5 3/8"	1/2"	3 11/16"	2"	7"	3FCT6
1 3/8"	1 13/16"	5 3/8"	1/2"	3 11/16"	2"	7"	3FCT7
1 7/16"	1 13/16"	5 3/8"	1/2"	3 11/16"	2"	7"	3FCT8
1 1/2"	1 15/16"	5 13/32"	1/2"	3 27/32"	2 7/32"	7 1/4"	3FCT9
1 11/16"	2 1/16"	5 3/4"	1/2"	4 11/64"	2 7/32"	7 3/4"	3FCU1
1 3/4"	2 1/16"	5 3/4"	1/2"	4 11/64"	2 7/32"	7 3/4"	3FCU2
1 15/16"	2 3/16"	6 1/2"	1/2"	4 7/16"	2 15/32"	8 3/8"	3FCU3
2"	2 1/16"	7 1/8"	5/8"	4 15/16"	2 13/16"	9 1/4"	3FCU4
2 3/16"	2 1/16"	7 1/8"	5/8"	4 15/16"	2 13/16"	9 1/4"	3FCU5
2 7/16"	2 11/16"	7 5/8"	5/8"	5 7/16"	3 1/16"	9 3/4"	3FCU6
Pillow Block, Medium Duty, Set Screw							
1"	1 3/4"	4 11/16"	1/2"	3 3/8"	2"	6 1/4"	3FDC3
1 3/16"	1 7/8"	5"	1/2"	3 11/16"	2 1/4"	6 7/8"	3FDC4
1 7/16"	2 1/8"	5 21/32"	1/2"	4 1/8"	2 1/4"	8"	3FDC5
1 1/2"	2 5/16"	6 5/32"	5/8"	4 1/2"	2 5/8"	8 3/4"	3FDC6
1 11/16"	2 5/16"	6 5/32"	5/8"	4 9/16"	2 5/8"	8 3/4"	3FDC7
1 3/4"	2 5/16"	6 5/32"	5/8"	4 9/16"	2 5/8"	8 3/4"	3FDC8
1 15/16"	2 1/2"	6 25/32"	5/8"	4 31/32"	2 7/8"	9 1/2"	3FDC9
2"	2 3/4"	7 1/4"	3/4"	5 15/32"	3 1/8"	10 1/4"	3FDD1
2 3/16"	2 3/4"	7 1/4"	3/4"	5 15/32"	3 1/8"	10 1/4"	3FDD2
2 7/16"	3"	8"	3/4"	5 31/32"	3 9/32"	11 1/4"	3FDD3
2 15/16"	3 1/2"	9 1/32"	7/8"	6 7/8"	3 1/2"	13"	3FDD4

Bore Dia.	Bolt Hole Center-to-Center	Bolt Size	Overall H	Overall W	Overall L	Item No.
2-Bolt Flange, Light Duty, Set Screw						
½"	3"	3/8"	1 9/64"	2 1/8"	3 7/8"	3FCN2
5/8"	3"	3/8"	1 9/64"	2 1/8"	3 7/8"	3FCN3
3/4"	3 17/32"	3/8"	1 3/8"	2 3/8"	4 7/16"	3FCN4
1"	3 57/64"	7/16"	1 25/64"	2 3/4"	5 1/8"	3FCN5
1 3/16"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 13/16"	3FCN6
1 1/4"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 13/16"	3FCN7
1 7/16"	5 1/8"	1/2"	1 11/16"	3 17/32"	6 11/32"	3FCN8
2-Bolt Flange, Standard Duty, Set Screw						
½"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FCU7
5/8"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FCU8
3/4"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FCU9
7/8"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FCV1
15/16"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FCV2
1"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FCV3
1 1/8"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 9/16"	3FCV4
1 3/16"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 9/16"	3FCV5
1 1/4"	5 1/8"	1/2"	1 3/4"	3 3/4"	6 1/8"	3FCV6
1 3/8"	5 1/8"	1/2"	1 3/4"	3 3/4"	6 1/8"	3FCV7
1 7/16"	5 1/8"	1/2"	1 3/4"	3 3/4"	6 1/8"	3FCV8
1 1/2"	5 21/32"	1/2"	2 1/64"	4 1/8"	6 5/8"	3FCV9
1 11/16"	5 27/32"	9/16"	2 9/64"	4 3/8"	7 1/16"	3FCW1
1 3/4"	5 27/32"	9/16"	2 9/64"	4 3/8"	7 1/16"	3FCW2
1 15/16"	6 3/16"	9/16"	2 5/32"	4 9/16"	7 7/16"	3FCW3
2"	7 1/4"	5/8"	2 5/16"	5 1/4"	8 1/2"	3FCW4
2-Bolt Flange, Nickel-Plated Standard Duty, Set Screw						
5/8"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FDD9
3/4"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FDE1
1"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FDE2
1 3/16"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 9/16"	3FDE3
2-Bolt Flange, Air Handling Standard Duty, Set Screw						
3/4"	3 17/32"	3/8"	1 9/32"	2 3/8"	4 13/32"	3FDA8
15/16"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FDA9
1"	3 57/64"	7/16"	1 13/32"	2 3/4"	4 7/8"	3FDC1
1 3/16"	4 19/32"	7/16"	1 37/64"	3 1/4"	5 9/16"	3FDC2
2-Bolt Flange, Standard Duty, Eccentric Locking Collar						
1"	3 57/64"	3/8"	1 13/16"	2 3/4"	4 7/8"	3FCW5
1 3/16"	4 19/32"	3/8"	2"	3 1/8"	5 9/16"	3FCW6
1 1/4"	5 1/8"	1/2"	2 9/64"	3 9/16"	6 1/8"	3FCW7
1 7/16"	5 1/8"	1/2"	2 11/64"	3 9/16"	6 1/8"	3FCW8
1 1/2"	5 21/32"	1/2"	2 3/8"	4 1/8"	6 3/4"	3FCW9
4-Bolt Flange, Standard Duty, Set Screw						
5/8"	2 1/2"	3/8"	1 5/16"	3 3/8"	3 3/8"	3FCX1
3/4"	2 1/2"	3/8"	1 5/16"	3 3/8"	3 3/8"	3FCX2
7/8"	2 3/4"	3/8"	1 13/32"	3 3/4"	3 3/4"	3FCX3
1"	2 3/4"	3/8"	1 13/32"	3 3/4"	3 3/4"	3FCX4
1 1/8"	3 1/4"	3/8"	1 37/64"	4 1/4"	4 1/4"	3FCX5
1 3/16"	3 1/4"	3/8"	1 37/64"	4 1/4"	4 1/4"	3FCX6
1 1/4"	3 5/8"	1/2"	1 3/4"	4 5/8"	4 5/8"	3FCX7
1 3/8"	3 5/8"	1/2"	1 3/4"	4 5/8"	4 5/8"	3FCX8
1 7/16"	3 5/8"	1/2"	1 3/4"	4 5/8"	4 5/8"	3FCX9
1 1/2"	4"	1/2"	2 1/64"	5 1/8"	5 1/8"	3FCY3
1 11/16"	4 1/8"	1/2"	2 1/16"	5 3/8"	5 3/8"	3FCY1
1 3/4"	4 1/8"	1/2"	2 1/16"	5 3/8"	5 3/8"	3FCY2
1 15/16"	4 3/8"	1/2"	2 9/64"	5 5/8"	5 5/8"	3FCY6
2"	5 1/8"	5/8"	2 3/8"	6 3/8"	6 3/8"	3FCY4
2 3/16"	5 1/8"	5/8"	2 3/8"	6 3/8"	6 3/8"	3FCY5
2 7/16"	5 5/8"	5/8"	2 3/4"	6 7/8"	6 7/8"	3FCY7
4-Bolt Flange, Nickel-Plated Standard Duty, Set Screw						
3/4"	2 1/2"	3/8"	1 5/16"	3 3/8"	3 3/8"	3FDE4
1"	2 3/4"	3/8"	1 13/32"	3 3/4"	3 3/4"	3FDE5
1 3/16"	3 1/4"	3/8"	1 37/64"	4 1/4"	4 1/4"	3FDE6
4-Bolt Flange, Standard Duty, Eccentric Locking Collar						
3/4"	2 1/2"	3/8"	1 7/8"	3 3/8"	3 3/8"	3FCY8
1"	2 3/4"	7/16"	1 57/64"	3 3/4"	3 3/4"	3FCY9
1 3/16"	3 1/4"	7/16"	2 1/64"	4 1/4"	4 1/4"	3FCZ1
1 1/4"	3 1/4"	7/16"	2 1/64"	4 1/4"	4 1/4"	3FCZ2
1 3/8"	3 5/8"	7/16"	2 11/64"	4 5/8"	4 5/8"	3FCZ3
1 7/16"	3 5/8"	7/16"	2 11/64"	4 5/8"	4 5/8"	3FCZ4
1 1/2"	4"	1/2"	2 3/8"	5 1/8"	5 1/8"	3FCZ5
1 11/16"	4 1/8"	1/2"	2 3/8"	5 1/8"	5 1/8"	3FCZ6
1 15/16"	4 3/8"	9/16"	2 5/8"	5 5/8"	5 5/8"	3FCZ7
2"	5 1/8"	5/8"	2 15/16"	6 3/8"	6 3/8"	3FCZ8
						3FCZ9

Bore Dia.	Overall Width	Outside Dia.	Item No.
Rubber Mounted, Set Screw			
½"	1 9/64"	2 17/32"	3FDF2
5/8"	1 9/64"	2 17/32"	3FDF3
3/4"	1 7/32"	2 17/32"	3FDF4
1"	1 9/32"	2 17/32"	3FDF5
Rubber Mounted, Eccentric Locking Collar			
½"	1 3/8"	2 17/32"	3FDE7
5/8"	1 3/8"	2 17/32"	3FDE8
3/4"	1 13/32"	2 17/32"	3FDE9
1"	1 13/32"	2 17/32"	3FDF1



A.
No. 5ZMX4



B.
No. 5TPW4



C.
No. 49C721



D.
No. 5TPV8



E.
No. 406U46



F.
No. 406U52



G.
No. 406U58



H.
No. 46N874

NTN

Corrosion-Resistant Mounted Ball Bearings

- Setscrew locking
- Temp. range: -4° to 230°F for thermoplastic (PBT) housing units
- Temp. range: -4° to 248°F for stainless steel housing units

Solid, flat base construction prevents buildup of particles in difficult to clean areas. Self-aligning design provides optimal performance under high rotational speeds. Replacement inserts are interchangeable; stainless steel inserts offer superior corrosion resistance compared with zinc-plated inserts.

Note: See the extended product offering on Grainger.com®. For additional end caps, search for "bearing accessories." For additional stainless steel items, search for "stainless steel" and the product category, such as "stainless steel insert bearings."

Key	Bore Dia.	Mounting Surface to Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. (mm) H	W	L	Mfr. Model	Item No.
PBT Housing and Zinc Chromate Insert with USDA-H1 Grease									
Pillow Block									
A	¾"	33.3mm	95mm	M8	65	38	127	ZUCPPL204-12	**46N892**
A	1"	36.5mm	105mm	M8	71	38	140	ZUCPPL205-16	**46N893**
A	1 3/16"	42.9mm	119mm	M10	83	46	162	ZUCPPL206-19	**46N894**
A	1¼"	42.9mm	119mm	M10	83	46	162	ZUCPPL206-20	**46N895**
A	1 7/16"	47.6mm	127mm	M10	94	48	167	ZUCPPL207-23	**46N896**
A	1½"	49.2mm	137mm	M10	98	54	184	ZUCPPL208-24	**46N897**
2-Bolt Flange									
B	¾"	—	90mm	M10	64.8	33.7	130	ZUCNFL204-12	**46N880**
B	1"	—	99mm	M10	70	36.7	130	ZUCNFL205-16	**46N881**
B	1 3/16"	—	117mm	M10	80	41.2	148	ZUCNFL206-19	**46N882**
B	1¼"	—	117mm	M10	80	41.2	148	ZUCNFL206-20	**46N883**
B	1 7/16"	—	130mm	M12	90	43.4	163	ZUCNFL207-23	**46N884**
B	1½"	—	144mm	M12	100	51.7	175	ZUCNFL208-24	**46N885**
3-Bolt Flange									
C	¾"	—	1½"	M10	108	33.7	62	ZUCFBL204-12	**49C727**
C	1"	—	1⅝"	M10	120.6	41.2	63.5	ZUCFBL205-16	**49C728**
C	1 3/16"	—	1⅞"	M10	138.5	41.5	76	ZUCFBL206-19	**49C729**
C	1¼"	—	1⅞"	M10	138.5	41.5	76	ZUCFBL206-20	**49C730**
C	1 7/16"	—	2"	M12	157	47.1	89	ZUCFBL207-23	**49C731**
4-Bolt Flange									
D	¾"	—	63.5mm	M10	86	36.3	86	ZUCFPL204-12	**46N886**
D	1"	—	70mm	M10	95	36.8	95	ZUCFPL205-16	**46N887**
D	1 3/16"	—	83mm	M10	107	41.4	107	ZUCFPL206-19	**46N888**
D	1¼"	—	83mm	M10	107	41.4	107	ZUCFPL206-20	**46N889**
D	1 7/16"	—	92mm	M12	118	46.9	118	ZUCFPL207-23	**46N890**
D	1½"	—	102mm	M12	130	53.2	130	ZUCFPL208-24	**46N891**
PBT Housing and Stainless Steel Insert with USDA-H1 Grease									
Pillow Block									
A	⅝"	33.3mm	95mm	M8	65	38	127	MUCPPL204-10	**5TPT9**
A	¾"	33.3mm	95mm	M8	65	38	127	MUCPPL204-12	**5ZMX4**
A	1"	36.5mm	105mm	M8	71	38	140	MUCPPL205-16	**5ZMX5**
A	1 3/16"	42.9mm	119mm	M10	83	46	162	MUCPPL206-19	**5TPV2**
A	1¼"	42.9mm	119mm	M10	83	46	162	MUCPPL206-20	**5TPV3**
A	1¼"	47.6mm	127mm	M10	94	48	167	MUCPPL207-20	**5ZMX8**
A	1 7/16"	47.6mm	127mm	M10	94	48	167	MUCPPL207-23	**5TPV5**
A	1½"	49.2mm	137mm	M10	98	54	184	MUCPPL208-24	**5TPV7**
A	20mm	33.3mm	95mm	M8	65	38	127	MUCPPL204	**5TPT8**
A	25mm	36.5mm	105mm	M8	71	38	140	MUCPPL205	**5TPV0**
A	30mm	42.9mm	119mm	M10	83	46	162	MUCPPL206	**5TPV1**
A	35mm	47.6mm	127mm	M10	94	48	167	MUCPPL207	**5TPV4**
A	40mm	49.2mm	137mm	M10	98	54	184	MUCPPL208	**5TPV6**
2-Bolt Flange									
B	⅝"	—	90mm	M10	64.8	33.7	130	MUCNFL204-10	**5TPW5**
B	¾"	—	90mm	M10	64.8	33.7	130	MUCNFL204-12	**5TPW6**
B	1"	—	99mm	M10	70	36.7	130	MUCNFL205-16	**5ZMY6**
B	1 3/16"	—	117mm	M10	80	41.2	148	MUCNFL206-19	**5ZMY7**
B	1¼"	—	117mm	M10	80	41.2	148	MUCNFL206-20	**5TPW9**
B	1¼"	—	130mm	M12	90	43.4	163	MUCNFL207-20	**5ZMY8**
B	1 7/16"	—	130mm	M12	90	43.4	163	MUCNFL207-23	**5TPX0**
B	1½"	—	144mm	M12	100	51.7	175	MUCNFL208-24	**5TPX2**
B	20mm	—	90mm	M10	64.8	33.7	130	MUCNFL204	**5TPW4**
B	25mm	—	99mm	M10	70	36.7	130	MUCNFL205	**5TPW7**
B	30mm	—	117mm	M10	80	41.2	148	MUCNFL206	**5TPW8**
B	40mm	—	144mm	M12	100	51.7	175	MUCNFL208	**5TPX1**
3-Bolt Flange									
C	¾"	—	1½"	M10	62	33.7	108	MUCFBL204-12	**49C721**
C	1"	—	1⅝"	M10	63.5	41.2	120.6	MUCFBL205-16	**49C722**
C	1 3/16"	—	1⅞"	M10	76	41.5	138.5	MUCFBL206-19	**49C723**
C	1¼"	—	1⅞"	M10	76	41.5	138.5	MUCFBL206-20	**49C724**
C	1 7/16"	—	2"	M12	89	47.1	157	MUCFBL207-23	**49C725**
C	20mm	—	38.1mm	M10	62	33.7	108	MUCFBL204	**49C716**
C	25mm	—	41.3mm	M10	63.5	41.2	120.6	MUCFBL205	**49C717**
C	30mm	—	47.6mm	M10	76	41.5	138.5	MUCFBL206	**49C718**
C	35mm	—	50.8mm	M12	89	47.1	157	MUCFBL207	**49C719**
4-Bolt Flange									
D	¾"	—	63.5mm	M10	86	36.3	86	MUCFPL204-12	**5TPV9**
D	1"	—	70mm	M10	95	36.8	95	MUCFPL205-16	**5ZMY1**
D	1 3/16"	—	83mm	M10	107	41.4	107	MUCFPL206-19	**5TPW2**
D	1¼"	—	83mm	M10	107	41.4	107	MUCFPL206-20	**5ZMY2**
D	1¼"	—	92mm	M12	118	46.9	118	MUCFPL207-20	**5ZMY3**
D	1 7/16"	—	92mm	M12	118	46.9	118	MUCFPL207-23	**5ZMY4**
D	1½"	—	102mm	M12	130	53.2	130	MUCFPL208-24	**5ZMY5**
D	20mm	—	63.5mm	M10	86	36.3	86	MUCFPL204	**5TPV8**
D	25mm	—	70mm	M10	95	36.8	95	MUCFPL205	**5TPW0**
D	30mm	—	83mm	M10	107	41.1	107	MUCFPL206	**5TPW1**
D	40mm	—	102mm	M12	130	53.2	130	MUCFPL208	**5TPW3**
PBT Housing and Stainless Steel Insert with USDA-H1 Solid Grease and Closed End Cap									
Pillow Block									
A	¾"	1 5/16"	3¾"	⅜"	2 9/16"	2½"	5"	MUCPPL204-12CCFG1	**406U28**
A	1"	1 7/16"	4⅛"	⅜"	2 13/16"	2 1/16"	5½"	MUCPPL205-16CCFG1	**406U29**
A	1 3/16"	1 11/16"	4 1/16"	½"	3¼"	3 3/16"	6⅜"	MUCPPL206-19CCFG1	**406U30**
A	1¼"	1⅞"	5"	½"	3 1/16"	3 3/16"	6 3/16"	MUCPPL207-20CCFG1	**406U31**
A	1 7/16"	1⅞"	5"	½"	3 1/16"	3 3/16"	6 3/16"	MUCPPL207-23CCFG1	**406U32**
A	1½"	1 15/16"	5 3/8"	½"	3⅞"	4 1/16"	7¼"	MUCPPL208-24CCFG1	**406U33**
2-Bolt Flange									
B	¾"	—	3 17/32"	⅜"	4 7/16"	1 13/16"	2 9/16"	MUCNFL204-12CCFG1	**406U34**
B	1"	—	3¾"	⅜"	5⅛"	2"	2¾"	MUCNFL205-16CCFG1	**406U35**
B	1 3/16"	—	4⅝"	⅜"	5 13/16"	2¼"	3⅛"	MUCNFL206-19CCFG1	**406U36**
B	1¼"	—	5⅛"	½"	6 7/16"	2 7/16"	3 9/16"	MUCNFL207-20CCFG1	**406U37**
B	1 7/16"	—	5⅛"	½"	6 7/16"	2 7/16"	3 9/16"	MUCNFL207-23CCFG1	**406U38**
B	1½"	—	5 1/16"	½"	6⅞"	2 13/16"	3 15/16"	MUCNFL208-24CCFG1	**406U39**
4-Bolt Flange									
D	¾"	—	2½"	⅜"	3⅜"	1⅞"	3⅜"	MUCFPL204-12CCFG1	**406U40**
D	1"	—	2¾"	⅜"	3¾"	2"	3¾"	MUCFPL205-16CCFG1	**406U41**
D	1 3/16"	—	3¼"	⅜"	4 3/16"	2 5/16"	4 3/16"	MUCFPL206-19CCFG1	**406U42**
D	1¼"	—	3⅝"	½"	4⅝"	2½"	4⅝"	MUCFPL207-20CCFG1	**406U43**
D	1 7/16"	—	3⅝"	½"	4⅝"	2½"	4⅝"	MUCFPL207-23CCFG1	**406U44**
D	1½"	—	4"	½"	5⅛"	2 13/16"	5⅛"	MUCFPL208-24CCFG1	**406U45**
Stainless Steel Housing and Insert with USDA-H1 Solid Grease and Closed End Cap									
Pillow Block									
E	¾"	1 5/16"	3¾"	⅜"	2 9/16"	1¾"	4 15/16"	SUCP204-12CCFG1	**406U46**
E	1"	1 7/16"	4⅛"	⅜"	2¾"	1⅞"	5½"	SUCP205-16CCFG1	**406U47**
E	1 3/16"	1 11/16"	4¾"	½"	3¼"	2 1/16"	6½"	SUCP206-19CCFG1	**406U48**
E	1¼"	1⅞"	5"	½"	3 1/16"	2 9/16"	6 9/16"	SUCP207-20CCFG1	**406U49**
E	1 7/16"	1⅞"	5"	½"	3 1/16"	2 9/16"	6 9/16"	SUCP207-23CCFG1	**406U50**
E	1½"	1 15/16"	5⅜"	½"	3 15/16"	2¾"	7¼"	SUCP208-24CCFG1	**406U51**
2-Bolt Flange									
F	¾"	—	3 17/32"	⅜"	4 7/16"	1 7/16"	2 5/16"	SUCFL204-12CCFG1	**406U52**
F	1"	—	3 57/64"	½"	4 15/16"	1 9/16"	2 11/16"	SUCFL205-16CCFG1	**406U53**
F	1 3/16"	—	4⅝"	½"	5 9/16"	1¾"	3⅛"	SUCFL206-19CCFG1	**406U54**
F	1¼"	—	5⅛"	½"	6⅛"	1⅞"	3 9/16"	SUCFL207-20CCFG1	**406U55**
F	1 7/16"	—	5⅛"	½"	6⅛"	1⅞"	3 9/16"	SUCFL207-23CCFG1	**406U56**
F	1½"	—	5 1/16"	½"	6¾"	2⅛"	3 15/16"	SUCFL208-24CCFG1	**406U57**
4-Bolt Flange									
G	¾"	—	3 17/32"	⅜"	3⅜"	1 7/16"	3⅜"	SUCF204-12CCFG1	**406U58**
G	1"	—	3 57/64"	⅜"	3¾"	1 9/16"	3¾"	SUCF205-16CCFG1	**406U59**
G	1 3/16"	—	4⅝"	⅜"	4¼"	1¾"	4¼"	SUCF206-19CCFG1	**406U60**
G	1¼"	—	5⅛"	½"	4 9/16"	1⅞"	4 9/16"	SUCF207-20CCFG1	**406U61**
G	1 7/16"	—	5⅛"	½"	4 9/16"	1⅞"	4 9/16"	SUCF207-23CCFG1	**406U62**
G	1½"	—	5 1/16"	½"	5⅛"	2⅛"	5⅛"	SUCF208-24CCFG1	**406U63**

Key	Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Bearing Inserts with USDA-H1 Grease					
Zinc Chromate					
H	¾"	47mm	31.0mm	ZUC204-12	**46N874**
H	1"	52mm	34.1mm	ZUC205-16	**46N875**
H	1 3/16"	62mm	38.1mm	ZUC206-19	**46N876**
H	1¼"	62mm	38.1mm	ZUC206-20	**46N877**
H	1 7/16"	72mm	42.9mm	ZUC207-23	**46N878**
H	1½"	80mm	49.2mm	ZUC208-24	**46N879**
Stainless Steel					
H	1 3/16"	62mm	38.1mm	MUC206-19	**5ZMZ1**
H	1 7/16"	72mm	42.9mm	MUC207-23	**5ZMZ4**
H	1½"	80mm	49.2mm	MUC208-24	**5ZMZ5**
Bearing Inserts with USDA-H1 Solid Grease					
Stainless Steel					
H	¾"	47mm	31.0mm	SUC204-12FG1	**46N985**
H	1"	52mm	34.1mm	SUC205-16FG1	**46N986**
H	1 3/16"	62mm	38.1mm	SUC206-19FG1	**46N987**
H	1¼"	62mm	38.1mm	SUC207-20FG1	**46N988**
H	1 7/16"	72mm	42.9mm	SUC207-23FG1	**46N989**
H	1½"	80mm	49.2mm	SUC208-24FG1	**46N990**



NTN

Insert Ball Bearings

- Relube type: prelubricated at factory
- Setscrew locking
- Include snap ring and groove
- Wide inner ring and protective flinger included

Bore Dia.	Outside Dia.	W	Dynamic Load Cap.	Mfr. Model	Item No.
½"	47mm	31.0mm	2890 lb.	UCS201-008LD1NR	**5ZUJ8**
⅝"	47mm	31.0mm	2890 lb.	UCS202-010LD1NR	**5ZUJ9**
¾"	47mm	31.0mm	2890 lb.	UCS204-012LD1NR	**5ZUK0**
⅞"	52mm	34.0mm	3150 lb.	UCS205-014LD1NR	**5ZUK1**
1"	52mm	34.0mm	3150 lb.	UCS205-100LD1NR	**5ZUK2**
1 3/16"	62mm	38.1mm	4400 lb.	UCS206-103LD1NR	**5ZUK3**
1 ¼"	62mm	38.1mm	4400 lb.	UCS206-104LD1NR	**5ZUK4**
1 7/16"	72mm	42.9mm	5750 lb.	UCS207-107LD1NR	**5ZUK5**
1 ½"	80mm	49.2mm	6550 lb.	UCS208-108LD1NR	**5ZUK6**
2"	100mm	55.6mm	9750 lb.	UCS211-200LD1NR	**5ZUK7**



Cone
No. 1YTV2



Cup
No. 1YTV3

NTN

Tapered Roller Bearings

Carry maximum combinations of radial and thrust loads simultaneously. Feature roller guiding inner ring construction. Roller bearing cones have steel cages and are nonlubricated. Use in lower-speed applications where there is a high degree of thrust or radial load, shock loads, and/or alternating thrust and radial loads.

Note: When replacing bearings, replace both cone and cup to ensure optimum performance and longer life.

Bore Dia.	Cone Width	Max. Shaft Fillet Radius	Dynamic Load Cap.	Static Load Cap.	Mfr. Model	Item No.
Cone						
0.75 in"	0.655 in	0.05 in"	6,300 lb lb.	6,500 lb lb.	4T-LM11949V1	**1YTV2**
1.0 in"	0.58 in	0.05 in"	6,450 lb lb.	7,650 lb lb.	4T-L44643	**1YTV6**
1 in"	0.813 in	0.14 in"	10,500 lb lb.	12,100 lb lb.	4T-15100	**1YTU9**
1.25 in"	0.66 in	—	7,750 lb lb.	9,200 lb lb.	4T-LM67048V2	**1YTV8**
1.375 in"	0.72 in	0.005 in"	10,500 lb lb.	12,600 lb lb.	4T-LM48548	**1YTV4**
1.38 in"	1.0 in	0.09 in"	14,600 lb lb.	19,000 lb lb.	4T-HM88649PX1	**1YTW1**
1.378 in"	0.66 in	—	8,000 lb lb.	10,700 lb lb.	4T-L68149V1	**1YTW3**
1.75 in"	1.193 in	0.14 in"	22,900 lb lb.	30,000 lb lb.	3782	**1YTW9**
1.781 in"	0.78 in	0.14 in"	12,100 lb lb.	17,100 lb lb.	4T-LM102949	**1YTU7**
2.0 in"	0.875 in	0.14 in"	15,600 lb lb.	21,100 lb lb.	4T-LM104949	**1YTU5**
2.625 in"	1.51 in	0.14 in"	46,500 lb lb.	62,500 lb lb.	HM212049	**1YTX8**
2.63 in"	1.188 in	0.14 in"	31,000 lb lb.	43,000 lb lb.	39590	**1YTX4**
2.875 in"	1.188 in	0.14 in"	28,100 lb lb.	43,500 lb lb.	33287	**1YTX6**
3.25 in"	1.313 in	0.14 in"	38,500 lb lb.	61,500 lb lb.	47686	**1YTX2**
3.25 in"	1.421 in	0.14 in"	42,500 lb lb.	64,500 lb lb.	580	**1YTW5**
3.5 in"	1.563 in	0.25 in"	61,000 lb lb.	90,000 lb lb.	HM518445	**1YTY3**
3.542 in"	1.575 in	0.28 in"	51,000 lb lb.	76,000 lb lb.	HM218248	**1YTY1**
3.75 in"	1.43 in	0.2 in"	44,500 lb lb.	71,000 lb lb.	594A	**1YTW7**

Outside Dia.	Cup Width	Bearing Width	Max. House Fillet Radius	Min. Housing Shoulder Dia.	Max. Housing Shoulder Dia.	Mfr. Model	Item No.
Cup							
1.781 in"	0.475 in	0.61 in"	0.05 in"	1.555 in"	1.634 in"	4T-LM11910	**1YTV3**
1.98 in"	0.42 in	0.56 in"	0.05 in"	1.752 in"	1.85 in"	4T-L44610	**1YTV7**
2.328 in"	0.465 in	0.625 in"	0.05 in"	2.047 in"	2.205 in"	4T-LM67010	**1YTV9**
2.328 in"	0.47 in	0.625 in"	0.05 in"	—	—	4T-L68110	**1YTW4**
2.441 in"	0.563 in	0.75 in"	0.05 in"	2.165 in"	2.284 in"	4T-15245	**1YTV1**
2.563 in"	0.55 in	0.71 in"	0.05 in"	2.28 in"	2.4 in"	4T-LM48510	**1YTV5**
2.844 in"	0.781 in	1.0 in"	0.09 in"	2.362 in"	2.717 in"	4T-HM88610PX1	**1YTW2**
2.891 in"	0.62 in	0.77 in"	0.03 in"	2.677 in"	2.756 in"	4T-LM102910	**1YTU8**
3.25 in"	0.65 in	0.85 in"	0.05 in"	2.953 in"	3.071 in"	4T-LM104911	**1YTU6**
3.672 in"	0.938 in	1.188 in"	0.13 in"	3.228 in"	3.465 in"	3720	**1YTX1**
4.438 in"	0.938 in	1.188 in"	0.13 in"	3.976 in"	4.213 in"	39520	**1YTX5**
4.724 in"	0.923 in	1.173 in"	0.03 in"	—	—	33472	**1YTX7**
4.813 in"	1.17 in	1.5 in"	0.13 in"	4.252 in"	4.567 in"	HM212011	**1YTX9**
5.25 in"	1.031 in	1.313 in"	0.13 in"	4.685 in"	5.039 in"	47620	**1YTX3**
5.788 in"	1.28 in	1.575 in"	0.14 in"	5.236 in"	5.551 in"	HM218210	**1YTY2**
6.0 in"	1.188 in	1.563 in"	0.13 in"	5.43 in"	5.79 in"	HM518410	**1YTY4**
6.0 in"	1.188 in	1.563 in"	0.13 in"	5.315 in"	5.669 in"	592A	**1YTW8**



No. 55PX43

NTN

Tapered Roller Bearing Assemblies

Commonly used in vehicles where the wheel bearings must handle large vertical (radial) and horizontal (axial) forces at the same time. Held together by an inner race that has a tapered surface for the bearings to roll against, and a flat inner radial surface to slide over a shaft. The outer race is the opposite design with the inner surface that's tapered, and the outer surface being flat. These tapered roller bearing assemblies are case-hardened steel construction and resist heat, heavy loads, humidity, and shocks. Suitable for use in hydraulic engines, gear motor transmissions, and locomotive axles.

Bore Dia. (mm)	Outside Dia. (mm)	Cone Width (mm)	Dynamic Load Cap. (lb.)	Static Load Cap. (lb.)	Mfr. Model	Item No.
15 mm	35 mm	10 mm	3,000 lb	2,770 lb	30202	**55PX43**
20 mm	42 mm	12 mm	5,600 lb	6,250 lb	32004X	**55PX54**
20 mm	47 mm	12 mm	6,350 lb	6,450 lb	30204	**55PX44**
20 mm	52 mm	13 mm	7,950 lb	7,600 lb	30304	**55PX51**
20 mm	52 mm	13 mm	8,000 lb	7,650 lb	30304A	**55PX52**
25 mm	47 mm	11.5 mm	6,250 lb	7,600 lb	32005X	**55PX55**
25 mm	52 mm	13 mm	7,100 lb	7,650 lb	30205	**55PX45**
25 mm	52 mm	18 mm	10,700 lb	12,900 lb	33205	**55PX65**
30 mm	55 mm	13 mm	8,400 lb	10,400 lb	32006X	**55PX56**
30 mm	62 mm	14 mm	9,800 lb	10,800 lb	30206	**55PX46**
30 mm	62 mm	17 mm	12,300 lb	14,400 lb	32206	**55PX61**
30 mm	62 mm	19.5 mm	14,600 lb	17,300 lb	33206	**55PX66**
30 mm	72 mm	23 mm	18,200 lb	20,200 lb	32306	**55PX62**
31.75 mm	59.13 mm	11.81 mm	7,750 lb	9,200 lb	LM67048/LM67010	**55PZ11**
35 mm	72 mm	15 mm	12,500 lb	13,800 lb	30207	**55PX47**
40 mm	68 mm	14.5 mm	11,300 lb	14,700 lb	32008X	**55PX57**
40 mm	80 mm	16 mm	13,800 lb	15,100 lb	30208	**55PX48**
40 mm	90 mm	27 mm	27,500 lb	33,500 lb	32308	**55PX63**
55 mm	90 mm	17.5 mm	18,100 lb	26,400 lb	32011X	**55PX58**
55 mm	100 mm	18 mm	20,900 lb	24,900 lb	30211	**55PX49**
65 mm	100 mm	17.5 mm	18,600 lb	28,700 lb	32013X	**55PX59**
95 mm	170 mm	27 mm	51,000 lb	65,000 lb	30219	**55PX50**
120 mm	180 mm	29 mm	55,000 lb	94,500 lb	32024X	**55PX60**

Find the Bearings You Need on Grainger.com®



Ball Bearing
No. 35JC74



Roller Bearing
No. 1YUA7



Slewing Ring
No. 4LFR7



Spherical Bearing
No. 19RT51

- Standard and metric sizes
- Automotive, marine, machining, robotics, semiconductor production, and more
- Popular brands you can trust

Grainger carries a wide range of bearings and bearing accessories for industrial and commercial applications—from agricultural disc bearings and angular contact bearings to unground radial ball bearings and wear sleeves, with plenty of choices in between. Click "Bearings" under Power Transmission on **Grainger.com®**.

SMITH Bearing®
Manufactured by A·C accurate bushing company

Cam Followers

Feature materials and finishes that provide minimum friction. Outer race is high-carbon chrome bearing steel, hardened and ground; inner race is low-carbon alloy steel, carburized and case hardened on raceway area. Full complement needle rollers are made from high-carbon chrome bearing steel, hardened, ground, and lapped. Additional styles and sizes are available on Grainger.com®

Stud Type and Heavy Stud Type—Stud Type models are for loads and shock that are moderate. Heavy Stud Type is for applications with high loads and/or heavy shock and where deflection is low.

Yoke Type—Features an inner race made for shaft or clevis mounting.



Screwdriver Slot Head, Unsealed No. 13W661



Hex Socket Head, Sealed No. 13W746



Yoke Type, Unsealed No. 11Y167

Roller Dia.	Roller Width	Stud Dia.	Stud Length	Thread Size	SCREWDRIVER SLOT HEAD, UNSEALED Mfr. Model	Item No.	SCREWDRIVER SLOT HEAD, SEALED Mfr. Model	Item No.	HEX SOCKET HEAD, UNSEALED Mfr. Model	Item No.	HEX SOCKET HEAD, SEALED Mfr. Model	Item No.
Stud Type												
0.5000"	0.3750"	0.1900"	0.625"	10-32	CR-1/2	**13W661**	CR-1/2-X	**13W682**	CR-1/2-B	**13W704**	CR-1/2-XB	**13W725**
0.5625"	0.3750"	0.1900"	0.625"	10-32	CR-9/16	**13W662**	CR-9/16-X	**13W683**	CR-9/16-B	**13W705**	CR-9/16-XB	**13W726**
0.6250"	0.4375"	0.2500"	0.750"	¼-28	CR-5/8	**13W663**	CR-5/8-X	**13W684**	CR-5/8-B	**13W706**	CR-5/8-XB	**13W727**
0.7500"	0.5000"	0.3750"	0.875"	⅜-24	CR-3/4	**13W664**	CR-3/4-X	**13W685**	CR-3/4-B	**13W707**	CR-3/4-XB	**13W728**
0.8750"	0.5000"	0.3750"	0.875"	⅜-24	CR-7/8	**13W665**	CR-7/8-X	**13W686**	CR-7/8-B	**13W708**	CR-7/8-XB	**13W729**
1.0000"	0.6250"	0.4375"	1.000"	7/16-20	CR-1	**13W666**	CR-1-X	**13W687**	CR-1-B	**13W709**	CR-1-XB	**13W730**
1.1250"	0.6250"	0.4375"	1.000"	7/16-20	CR-1-1/8	**13W667**	CR-1-1/8-X	**13W688**	CR-1-1/8-B	**13W710**	CR-1-1/8-XB	**13W731**
1.2500"	0.7500"	0.5000"	1.250"	½-20	CR-1-1/4	**13W668**	CR-1-1/4-X	**13W689**	CR-1-1/4-B	**13W711**	CR-1-1/4-XB	**13W732**
1.3750"	0.7500"	0.5000"	1.250"	½-20	CR-1-3/8	**13W669**	CR-1-3/8-X	**13W690**	CR-1-3/8-B	**13W712**	CR-1-3/8-XB	**13W733**
1.5000"	0.8750"	0.6250"	1.500"	⅝-18	CR-1-1/2	**13W670**	CR-1-1/2-X	**13W691**	CR-1-1/2-B	**13W713**	CR-1-1/2-XB	**13W734**
1.6250"	0.8750"	0.6250"	1.500"	⅝-18	CR-1-5/8	**13W671**	CR-1-5/8-X	**13W692**	CR-1-5/8-B	**13W714**	CR-1-5/8-XB	**13W735**
1.7500"	1.0000"	0.7500"	1.750"	¾-16	CR-1-3/4	**13W672**	CR-1-3/4-X	**13W693**	CR-1-3/4-B	**13W715**	CR-1-3/4-XB	**13W736**
1.8750"	1.0000"	0.7500"	1.750"	¾-16	CR-1-7/8	**13W673**	CR-1-7/8-X	**13W694**	CR-1-7/8-B	**13W716**	CR-1-7/8-XB	**13W737**
2.0000"	1.2500"	0.8750"	2.000"	⅞-14	CR-2	**13W674**	CR-2-X	**13W695**	CR-2-B	**13W717**	CR-2-XB	**13W738**
2.2500"	1.2500"	0.8750"	2.000"	⅞-14	CR-2-1/4	**13W675**	CR-2-1/4-X	**13W696**	CR-2-1/4-B	**13W718**	CR-2-1/4-XB	**13W739**
2.5000"	1.5000"	1.0000"	2.250"	1-14	CR-2-1/2	**13W676**	CR-2-1/2-X	**13W697**	CR-2-1/2-B	**13W719**	CR-2-1/2-XB	**13W740**
2.7500"	1.5000"	1.0000"	2.250"	1-14	CR-2-3/4	**13W677**	CR-2-3/4-X	**13W698**	CR-2-3/4-B	**13W720**	CR-2-3/4-XB	**13W741**
3.0000"	1.7500"	1.2500"	2.500"	1¼-12	CR-3	**13W678**	CR-3-X	**13W699**	CR-3-B	**13W721**	CR-3-XB	**13W742**
3.2500"	1.7500"	1.2500"	2.500"	1¼-12	CR-3-1/4	**13W679**	CR-3-1/4-X	**13W701**	CR-3-1/4-B	**13W722**	CR-3-1/4-XB	**13W743**
3.5000"	2.0000"	1.3750"	2.750"	1⅜-12	CR-3-1/2	**13W680**	CR-3-1/2-X	**13W702**	CR-3-1/2-B	**13W723**	CR-3-1/2-XB	**13W744**
4.0000"	2.2250"	1.5000"	3.500"	1½-12	CR-4	**13W681**	CR-4-X	**13W703**	CR-4-B	**13W724**	CR-4-XB	**13W745**
Heavy Stud Type												
0.5000"	0.3750"	0.2500"	0.625"	¼-28	HR-1/2	**13W767**	HR-1/2-X	**11Y006**	HR-1/2-B	**11Y026**	HR-1/2-XB	**11Y046**
0.6250"	0.4370"	0.3125"	0.750"	5/16-24	HR-5/8	**13W768**	HR-5/8-X	**11Y007**	HR-5/8-B	**11Y027**	HR-5/8-XB	**11Y047**
0.7500"	0.5000"	0.4375"	0.875"	7/16-20	HR-3/4	**13W769**	HR-3/4-X	**11Y008**	HR-3/4-B	**11Y028**	HR-3/4-XB	**11Y048**
0.8750"	0.5000"	0.4375"	0.875"	7/16-20	HR-7/8	**13W770**	HR-7/8-X	**11Y009**	HR-7/8-B	**11Y029**	HR-7/8-XB	**11Y049**
1.0000"	0.6250"	0.6250"	1.000"	⅝-18	HR-1	**13W771**	HR-1-X	**11Y010**	HR-1-B	**11Y030**	HR-1-XB	**11Y050**
1.1250"	0.6250"	0.6250"	1.000"	⅝-18	HR-1-1/8	**13W772**	HR-1-1/8-X	**11Y011**	HR-1-1/8-B	**11Y031**	HR-1-1/8-XB	**11Y051**
1.2500"	0.7500"	0.7500"	1.250"	¾-16	HR-1-1/4	**13W773**	HR-1-1/4-X	**11Y012**	HR-1-1/4-B	**11Y032**	HR-1-1/4-XB	**11Y052**
1.3750"	0.7500"	0.7500"	1.250"	¾-16	HR-1-3/8	**11X992**	HR-1-3/8-X	**11Y013**	HR-1-3/8-B	**11Y033**	HR-1-3/8-XB	**11Y053**
1.5000"	0.8750"	0.8750"	1.500"	⅞-14	HR-1-1/2	**11X993**	HR-1-1/2-X	**11Y014**	HR-1-1/2-B	**11Y034**	HR-1-1/2-XB	**11Y054**
1.6250"	0.8750"	0.8750"	1.500"	⅞-14	HR-1-5/8	**11X994**	HR-1-5/8-X	**11Y015**	HR-1-5/8-B	**11Y035**	HR-1-5/8-XB	**11Y055**
1.7500"	1.0000"	1.0000"	1.750"	1-14	HR-1-3/4	**11X995**	HR-1-3/4-X	**11Y016**	HR-1-3/4-B	**11Y036**	HR-1-3/4-XB	**11Y056**
1.8750"	1.0000"	1.0000"	1.750"	1-14	HR-1-7/8	**11X996**	HR-1-7/8-X	**11Y017**	HR-1-7/8-B	**11Y037**	HR-1-7/8-XB	**11Y057**
2.0000"	1.2500"	1.1250"	2.000"	1⅛-12	HR-2	**11X997**	HR-2-X	**11Y018**	HR-2-B	**11Y038**	HR-2-XB	**11Y058**
2.2500"	1.2500"	1.1250"	2.000"	1⅛-12	HR-2-1/4	**11X998**	HR-2-1/4-X	**11Y019**	HR-2-1/4-B	**11Y039**	HR-2-1/4-XB	**11Y059**
2.5000"	1.5000"	1.2500"	2.250"	1¼-12	HR-2-1/2	**11X999**	HR-2-1/2-X	**11Y020**	HR-2-1/2-B	**11Y040**	HR-2-1/2-XB	**11Y060**
2.7500"	1.5000"	1.2500"	2.250"	1¼-12	HR-2-3/4	**11Y001**	HR-2-3/4-X	**11Y021**	HR-2-3/4-B	**11Y041**	HR-2-3/4-XB	**11Y061**
3.0000"	1.7500"	1.5000"	2.500"	1½-12	HR-3	**11Y002**	HR-3-X	**11Y022**	HR-3-B	**11Y042**	HR-3-XB	**11Y062**
3.2500"	1.7500"	1.5000"	2.500"	1½-12	HR-3-1/4	**11Y003**	HR-3-1/4-X	**11Y023**	HR-3-1/4-B	**11Y043**	HR-3-1/4-XB	**11Y063**
3.5000"	2.0000"	1.7500"	2.750"	1¾-12	HR-3-1/2	**11Y004**	HR-3-1/2-X	**11Y024**	HR-3-1/2-B	**11Y044**	HR-3-1/2-XB	**11Y064**
4.0000"	2.2500"	2.0000"	3.500"	2-12	HR-4	**11Y005**	HR-4-X	**11Y025**	HR-4-B	**11Y045**	HR-4-XB	**11Y065**

Roller Dia.	Roller Width	Stud Dia.	Stud Length	Thread Size	HEX SOCKET HEAD, SEALED Mfr. Model	Item No.
Stud Type, Eccentric						
0.5000"	0.3750"	0.1900"	0.625"	10-32	CR-1/2-XBE	**13W746**
0.5625"	0.3750"	0.1900"	0.625"	10-32	CR-9/16-XBE	**13W747**
0.6250"	0.4375"	0.2500"	0.750"	¼-28	CR-5/8-XBE	**13W748**
0.7500"	0.5000"	0.3750"	0.875"	⅜-24	CR-3/4-XBE	**13W749**
0.8750"	0.5000"	0.3750"	0.875"	⅜-24	CR-7/8-XBE	**13W750**
1.0000"	0.6250"	0.4375"	1.000"	7/16-20	CR-1-XBE	**13W751**
1.1250"	0.6250"	0.4375"	1.000"	7/16-20	CR-1-1/8-XBE	**13W752**
1.2500"	0.7500"	0.5000"	1.250"	½-20	CR-1-1/4-XBE	**13W753**
1.3750"	0.7500"	0.5000"	1.250"	½-20	CR-1-3/8-XBE	**13W754**
1.5000"	0.8750"	0.6250"	1.500"	⅝-18	CR-1-1/2-XBE	**13W755**
1.6250"	0.8750"	0.6250"	1.500"	⅝-18	CR-1-5/8-XBE	**13W756**
1.7500"	1.0000"	0.7500"	1.750"	¾-16	CR-1-3/4-XBE	**13W757**
1.8750"	1.0000"	0.7500"	1.750"	¾-16	CR-1-7/8-XBE	**13W758**
2.0000"	1.2500"	0.8750"	2.000"	⅞-14	CR-2-XBE	**13W759**
2.2500"	1.2500"	0.8750"	2.000"	⅞-14	CR-2-1/4-XBE	**13W760**
2.5000"	1.5000"	1.0000"	2.250"	1-14	CR-2-1/2-XBE	**13W761**
2.7500"	1.5000"	1.0000"	2.250"	1-14	CR-2-3/4-XBE	**13W762**
3.0000"	1.7500"	1.2500"	2.500"	1¼-12	CR-3-XBE	**13W763**
3.2500"	1.7500"	1.2500"	2.500"	1¼-12	CR-3-1/4-XBE	**13W764**
3.5000"	2.0000"	1.3750"	2.750"	1⅜-12	CR-3-1/2-XBE	**13W765**
4.0000"	2.2250"	1.5000"	3.500"	1½-12	CR-4-XBE	**13W766**

Bore Dia.	Roller Dia.	Roller Width	UNSEALED Mfr. Model	Item No.	SEALED Mfr. Model	Item No.
Yoke Type						
0.2500"	0.7500"	0.5000"	YR-3/4	**11Y167**	YR-3/4-X	**11Y185**
0.2500"	0.8750"	0.5000"	YR-7/8	**11Y168**	YR-7/8-X	**11Y186**
0.3125"	1.0000"	0.6250"	YR-1	**11Y169**	YR-1-X	**11Y187**
0.3125"	1.1250"	0.6250"	YR-1-1/8	**11Y170**	YR-1-1/8-X	**11Y188**
0.3750"	1.2500"	0.7500"	YR-1-1/4	**11Y171**	YR-1-1/4-X	**11Y189**
0.3750"	1.3750"	0.7500"	YR-1-3/8	**11Y172**	YR-1-3/8-X	**11Y190**
0.4375"	1.5000"	0.8750"	YR-1-1/2	**11Y173**	YR-1-1/2-X	**11Y191**
0.4375"	1.6250"	0.8750"	YR-1-5/8	**11Y174**	YR-1-5/8-X	**11Y192**
0.5000"	1.7500"	1.0000"	YR-1-3/4	**11Y175**	YR-1-3/4-X	**11Y193**
0.5000"	1.8750"	1.0000"	YR-1-7/8	**11Y176**	YR-1-7/8-X	**11Y194**
0.6250"	2.0000"	1.2500"	YR-2	**11Y177**	YR-2-X	**11Y195**
0.6250"	2.2500"	1.2500"	YR-2-1/4	**11Y178**	YR-2-1/4-X	**11Y196**
0.7500"	2.5000"	1.5000"	YR-2-1/2	**11Y179**	YR-2-1/2-X	**11Y197**
0.7500"	2.7500"	1.5000"	YR-2-3/4	**11Y180**	YR-2-3/4-X	**11Y198**
1.0000"	3.0000"	1.7500"	YR-3	**11Y181**	YR-3-X	**11Y199**
1.0000"	3.2500"	1.7500"	YR-3-1/4	**11Y182**	YR-3-1/4-X	**11Y201**
1.1250"	3.5000"	2.0000"	YR-3-1/2	**11Y183**	YR-3-1/2-X	**11Y202**
1.2500"	4.0000"	2.2500"	YR-4	**11Y184**	YR-4-X	**11Y203**



Double Shielded No. 1ZGD8



Double Sealed No.1ZGE4

Dayton

Single-Row Radial Ball Bearings

- Operating temp. range: -65° to 250°F

Motor-quality low-friction, 52100 chrome steel industrial ball bearings are suitable for radial and thrust load applications that require precise low-torque rotation. Use flanged bearings for easier plate mounting. Noncontact, stainless steel shields reduce contamination without adding drag. Light-contact rubber seals protect the bearing, but with slightly higher drag. All are lubricated with general-purpose grease. Meet industry standard ABEC specifications.

Bore Dia.	Outside Dia.	W	Flange Dia.	Flange Thickness	Dynamic Load Cap.	Static Load Cap.	DOUBLE SHIELDED Industry No.	DOUBLE SHIELDED Item No.	DOUBLE SEALED Industry No.	DOUBLE SEALED Item No.
Inch Series										
0.1250"	0.3750"	0.1562"	—	—	142 lb.	49 lb.	R2-ZZ	**1ZGB8**	R2-2RS	**1ZGC8**
0.1250"	0.5000"	0.1719"	—	—	292 lb.	51 lb.	R2A-ZZ	**1ZGB9**	R2A-2RS	**1ZGC9**
0.1875"	0.5000"	0.1960"	—	—	292 lb.	110 lb.	R3ZZ	**1ZGC1**	R3-2RS	**1ZGD1**
0.2500"	0.6250"	0.1960"	—	—	333 lb.	140 lb.	R4ZZ	**1ZGC2**	R4-2RS	**1ZGD2**
0.2500"	0.7500"	0.2812"	—	—	526 lb.	199 lb.	R4AZZ	**1ZGC3**	R4A-2RS	**1ZGD3**
0.3750"	0.8750"	0.2812"	—	—	742 lb.	315 lb.	R6ZZ	**1ZGC4**	R6-2RS	**1ZGD4**
0.5000"	1.1250"	0.3125"	—	—	879 lb.	504 lb.	R8ZZ	**1ZGC5**	R8-2RS	**1ZGD5**
0.6250"	1.3750"	0.3438"	—	—	1035 lb.	624 lb.	R10ZZ	**1ZGC6**	R10-2RS	**1ZGD6**
0.7500"	1.6250"	0.4375"	—	—	1628 lb.	1003 lb.	R12ZZ	**1ZGC7**	R12-2RS	**1ZGD7**
1.0000"	2.0000"	0.5000"	—	—	2261 lb.	1364 lb.	R16-ZZ	**21XU35**	R16-2RS	**21XU40**
Inch Series With Flange										
0.1250"	0.3750"	0.1562"	0.440"	0.031"	142 lb.	49 lb.	FR2-ZZ	**1ZGD8**	FR2-2RS	**1ZGE4**
0.1875"	0.5000"	0.1960"	0.565"	0.042"	292 lb.	110 lb.	FR3ZZ	**1ZGD9**	FR3-2RS	**1ZGE5**
0.2500"	0.6250"	0.1960"	0.690"	0.042"	333 lb.	140 lb.	FR4ZZ	**1ZGE1**	FR4-2RS	**1ZGE6**
0.3750"	0.8750"	0.2812"	0.969"	0.062"	749 lb.	320 lb.	FR6ZZ	**1ZGE2**	FR6-2RS	**1ZGE7**
0.5000"	1.1250"	0.3125"	1.225"	0.062"	884 lb.	501 lb.	FR8ZZ	**1ZGE3**	FR8-2RS	**1ZGE8**
Special Standard Bore Series										
0.5000"	32mm	10mm	—	—	—	—	6201ZZ/12.7-C3	**21XU45**	—	—
0.6250"	40mm	12mm	—	—	—	—	6203ZZ/15.875-C3	**21XU41**	—	—

Bore Dia.	Outside Dia.	W	Flange Dia.	Flange Thickness	DOUBLE SHIELDED Dynamic Load Cap. lb.	DOUBLE SHIELDED Static Load Cap.	DOUBLE SHIELDED Industry No.	DOUBLE SHIELDED Item No.	DOUBLE SEALED Dynamic Load Cap. lb.	DOUBLE SEALED Static Load Cap.	DOUBLE SEALED Industry No.	DOUBLE SEALED Item No.
Metric Series												
6mm	19mm	6mm	—	—	—	—	—	—	525 lb.	201 lb.	626-2RS-C3	**21XU46**
7mm	19mm	6mm	—	—	—	—	—	—	525 lb.	201 lb.	607-2RS-C3	**21XU48**
	22mm	7mm	—	—	739 lb.	310 lb.	627ZZ-C3	**21XU34**	—	—	—	—
8mm	22mm	7mm	—	—	740 lb.	310 lb.	608ZZ-C3	**21XU33**	740 lb.	310 lb.	608-2RS-C3	**21XU39**
9mm	24mm	7mm	—	—	754 lb.	324 lb.	609ZZ	**21XU44**	—	—	—	—
10mm	19mm	5mm	—	—	234 lb.	169 lb.	6800ZZ	**1ZGH6**	—	—	—	—
	22mm	6mm	25.0mm	1.5mm	605 lb.	286 lb.	6900ZZ	**1ZGJ7**	—	—	—	—
	26mm	8mm	—	—	1030 lb.	445 lb.	6000ZZ	**1ZGE9**	1030 lb.	440 lb.	6000-2RS	**1ZGF6**
	30mm	9mm	—	—	1147 lb.	535 lb.	6200ZZ	**1ZGG3**	1150 lb.	540 lb.	6200-2RS	**1ZGG9**
12mm	21mm	5mm	—	—	315 lb.	202 lb.	6801ZZ	**1ZGH7**	—	—	—	—
	24mm	6mm	26.5mm	1.5mm	650 lb.	328 lb.	6901ZZ	**1ZGJ8**	—	—	—	—
	28mm	8mm	—	—	1147 lb.	—	6001ZZ	**1ZGF1**	1147 lb.	535 lb.	6001-2RS	**1ZGF7**
	32mm	10mm	—	—	1533 lb.	686 lb.	6201ZZ	**1ZGG4**	1370 lb.	615 lb.	6201-2RS	**1ZGH1**
15mm	24mm	5mm	—	—	432 lb.	—	6802ZZ	**1ZGH8**	—	—	—	—
	28mm	7mm	30.5mm	1.5mm	971 lb.	506 lb.	6902ZZ	**1ZGJ9**	—	—	—	—
	32mm	9mm	—	—	1254 lb.	641 lb.	6002ZZ	**1ZGF2**	1254 lb.	641 lb.	6002-2RS	**1ZGF8**
	35mm	11mm	—	—	1720 lb.	836 lb.	6202ZZ	**1ZGG5**	1720 lb.	836 lb.	6202-2RS	**1ZGH2**
	42mm	13mm	—	—	—	—	—	—	2563 lb.	1225 lb.	6302-2RS-C3	**21XU47**
17mm	26mm	5mm	—	—	490 lb.	288 lb.	6803ZZ	**1ZGH9**	—	—	—	—
	30mm	7mm	32.5mm	1.5mm	1032 lb.	573 lb.	6903ZZ	**1ZGK1**	—	—	—	—
	35mm	10mm	—	—	1349 lb.	751 lb.	6003ZZ	**1ZGF3**	1349 lb.	751 lb.	6003-2RS	**1ZGF9**
	40mm	12mm	—	—	2159 lb.	1005 lb.	6203ZZ	**1ZGG6**	2159 lb.	1005 lb.	6203-2RS	**1ZGH3**
	47mm	14mm	—	—	3057 lb.	1494 lb.	6303ZZ-C3	**21XU52**	3057 lb.	1494 lb.	6303-2RS-C3	**21XU56**
20mm	32mm	7mm	—	—	776 lb.	506 lb.	6804ZZ	**1ZGJ1**	—	—	—	—
	37mm	9mm	40.0mm	2.0mm	1432 lb.	627 lb.	6904ZZ	**1ZGK2**	—	—	—	—
	42mm	12mm	—	—	2109 lb.	1129 lb.	6004ZZ	**1ZGF4**	2109 lb.	1129 lb.	6004-2RS	**1ZGG1**
	47mm	14mm	—	—	2221 lb.	1394 lb.	6204ZZ	**1ZGG7**	2221 lb.	1394 lb.	6204-2RS	**1ZGH4**
	52mm	15mm	—	—	—	—	—	—	3574 lb.	1764 lb.	6304-2RS-C3	**21XU57**
25mm	47mm	12mm	—	—	2271 lb.	1315 lb.	6005ZZ	**1ZGF5**	2271 lb.	—	6005-2RS	**1ZGG2**
	52mm	15mm	—	—	2429 lb.	1569 lb.	6205ZZ	**1ZGG8**	2429 lb.	1569 lb.	6205-2RS	**1ZGH5**
	62mm	17mm	—	—	—	—	—	—	5782 lb.	2491 lb.	6305-2RS-C3	**21XU58**
30mm	55mm	13mm	—	—	—	—	—	—	2967 lb.	1854 lb.	6006-2RS-C3	**21XU42**
	62mm	16mm	—	—	4384 lb.	2540 lb.	6206ZZ-C3	**21XU36**	4392 lb.	2538 lb.	6206-2RS-C3	**21XU49**
	72mm	19mm	—	—	5957 lb.	3370 lb.	6306ZZ-C3	**21XU53**	6002 lb.	3372 lb.	6306-2RS-C3	**21XU59**
35mm	62mm	14mm	—	—	—	—	—	—	3640 lb.	2322 lb.	6007-2RS-C3	**21XU43**
	72mm	17mm	—	—	5793 lb.	3482 lb.	6207ZZ-C3	**21XU37**	5778 lb.	3462 lb.	6207-2RS-C3	**21XU50**
	80mm	21mm	—	—	7509 lb.	4338 lb.	6307ZZ-C3	**21XU54**	7509 lb.	4338 lb.	6307-2RS-C3	**21XU60**
40mm	80mm	18mm	—	—	6542 lb.	4001 lb.	6208ZZ-C3	**21XU38**	6542 lb.	4001 lb.	6208-2RS-C3	**21XU51**
45mm	100mm	25mm	—	—	10,993 lb.	6631 lb.	6309ZZ-C3	**21XU55**	10,993 lb.	6631 lb.	6309-2RS-C3	**21XU61**
Metric Series With Flange												
10mm	19mm	5mm	21.0mm	1.0mm	382 lb.	188 lb.	F6800ZZ	**1ZGJ2**	—	—	—	—
	22mm	6mm	25.0mm	1.5mm	587 lb.	275 lb.	F6900ZZ	**1ZGK3**	—	—	—	—
12mm	21mm	5mm	23.0mm	1.1mm	429 lb.	234 lb.	F6801ZZ	**1ZGJ3**	—	—	—	—
	24mm	6mm	26.5mm	1.5mm	636 lb.	317 lb.	F6901ZZ	**1ZGK4**	—	—	—	—
15mm	24mm	5mm	26.0mm	1.1mm	466 lb.	282 lb.	F6802ZZ	**1ZGJ4**	—	—	—	—
	28mm	7mm	30.5mm	1.5mm	971 lb.	508 lb.	F6902ZZ	**1ZGK5**	—	—	—	—
17mm	26mm	5mm	28.0mm	1.1mm	502 lb.	327 lb.	F6803ZZ	**1ZGJ5**	—	—	—	—
	30mm	7mm	32.5mm	1.5mm	1031 lb.	577 lb.	F6903ZZ	**1ZGK6**	—	—	—	—



No. 54DD78

NTN

Single-Row Radial Ball Bearings with Food Grade Solid Lubrication

440C stainless steel cage. Double sealed. Temp. range: 14° to 212°F. FDA/USDA Approved H1 Solid Grease.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
6000 Series				
10mm	26mm	8mm	S6000 2RS FG1	**54DD78**
12mm	28mm	8mm	S6001 2RS FG1	**54DD79**
15mm	32mm	9mm	S6002 2RS FG1	**54DD81**
17mm	35mm	10mm	S6003 2RS FG1	**54DD83**
20mm	42mm	12mm	S6004 2RS FG1	**54DD85**
25mm	47mm	12mm	S6005 2RS FG1	**54DD87**
30mm	55mm	13mm	S6006 2RS FG1	**54DD89**
35mm	62mm	14mm	S6007 2RS FG1	**54DD91**
6200 Series				
12mm	32mm	10mm	S6201 2RS FG1	**54DD80**
15mm	35mm	11mm	S6202 2RS FG1	**54DD82**
17mm	40mm	12mm	S6203 2RS FG1	**54DD84**
20mm	47mm	14mm	S6204 2RS FG1	**54DD86**
25mm	52mm	15mm	S6205 2RS FG1	**54DD88**
30mm	62mm	16mm	S6206 2RS FG1	**54DD90**
35mm	72mm	17mm	S6207 2RS FG1	**54DD92**



No. 4YVY6

FAG

Self-Aligning Double-Row Radial Ball Bearings

Provide support for radial and axial loads on shafts that are constantly misaligning and deflecting. Double contact sealed with a glass fiber-reinforced polyamide cage.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
12mm	32mm	14mm	2201-2RS-TVH	**4YVY6**
15mm	35mm	14mm	2202-2RS-TVH	**4YVY7**
17mm	40mm	16mm	2203-2RS-TVH	**4YVY8**
20mm	47mm	18mm	2204-2RS-TVH	**4YVY9**
25mm	52mm	18mm	2205-2RS-TVH	**4YVZ1**
30mm	62mm	20mm	2206-2RS-TVH	**4YVZ2**
35mm	72mm	23mm	2207-2RS-TVH	**4YVZ3**
40mm	80mm	23mm	2208-2RS-TVH	**4YVZ4**

Single-Row Radial Ball Bearings

NTN®

Prelubricated, permanently sealed bearings offer a lifetime of quiet, maintenance-free operation. Seal is made of synthetic rubber molded to a steel plate. V-shaped groove acts as a "flinger" to keep dirt out. Shielded bearings have a shield made of rust-resistant metal. Cages constructed of pressed steel. Bearings are individually wrapped and boxed to protect from contaminants during shipping and storage. Meet or exceed industry standards.



Double Sealed No. 6L026



Double Shielded No. 1L004

Bore Dia.	Outside Dia.	W	OPEN Mfr. Model	OPEN Item No.	DOUBLE SHIELDED Mfr. Model	DOUBLE SHIELDED Item No.	DOUBLE SEALED Mfr. Model	DOUBLE SEALED Item No.	DOUBLE CONTACT SEALED Mfr. Model	DOUBLE CONTACT SEALED Item No.
600 Series										
4mm	13mm	5mm	—	—	624ZZ/1K	**5U557**	—	—	—	—
5mm	16mm	5mm	—	—	625ZZC3/5K	**5U592**	—	—	—	—
6mm	19mm	6mm	—	—	626ZZC3/L627	**5U593**	626LLBC3/L627	**5U558**	—	—
7mm	19mm	6mm	—	—	607ZZC3/1K	**5U526**	607LLBC3/L627	**5U591**	—	—
7mm	22mm	7mm	—	—	627ZZC3/L627	**1L002**	627LLB/1K	**1L036**	—	—
8mm	22mm	7mm	—	—	608ZZC3/L627	**1L001**	608LLBC3/5C	**1L035**	—	—
8mm	24mm	8mm	—	—	628ZZ/1K	**5U560**	628LLB/1K	**5U559**	—	—
9mm	24mm	7mm	—	—	609JX2ZZ/1K	**5U530**	—	—	—	—
9mm	26mm	8mm	—	—	629X50ZZC3/L627	**1L003**	629X50LLBC3/L627	**1L037**	—	—
6000 Series										
10mm	26mm	8mm	6000C3	**4ZXA3**	6000ZZC3/L627	**1L010**	6000LLBC3/L627	**1L044**	6000LLUC3/L627	**4ZXA4**
12mm	28mm	8mm	6001C3	**4ZXA5**	6001ZZC3/L627	**1L011**	6001LLBC3/L627	**1L045**	6001LLUC3/L627	**4ZXA6**
15mm	32mm	9mm	6002C3	**4ZXA7**	6002ZZC3/L627	**5U494**	6002LLBC3/L627	**5U493**	6002LLUC3/L627	**4ZXA8**
17mm	35mm	10mm	6003C3	**4ZXA9**	6003ZZC3/L627	**5U496**	6003LLBC3/L627	**5U495**	6003LLUC3/L627	**4ZXC1**
20mm	42mm	12mm	6004C3	**4ZXC2**	6004ZZC3/L627	**5U498**	6004LLBC3/L627	**5U497**	6004LLUC3/L627	**4ZXC3**
25mm	47mm	12mm	6005C3	**4ZXC4**	6005ZZC3/L627	**1L012**	6005LLBC3/L627	**1L046**	6005LLUC3/L627	**4ZXC5**
30mm	55mm	13mm	6006C3	**4ZXC6**	6006ZZC3/L627	**5U500**	6006LLBC3/L627	**5U499**	6006LLUC3/L627	**4ZXC7**
35mm	62mm	14mm	6007C3	**4ZXC8**	6007ZZC3/L627	**5U502**	6007LLBC3/L627	**5U501**	6007LLUC3/L627	**4ZXC9**
40mm	68mm	15mm	6008C3	**4ZXD1**	6008ZZC3/L627	**5U504**	6008LLBC3/L627	**5U503**	6008LLUC3/L627	**4ZXD2**
45mm	75mm	16mm	6009C3	**4ZXD3**	6009ZZC3/L627	**5U506**	6009LLBC3/L627	**5U505**	6009LLUC3/L627	**4ZXD4**
50mm	80mm	16mm	6010C3	**4ZXD5**	6010ZZC3/L627	**5U508**	6010LLBC3/L627	**5U507**	6010LLUC3/L627	**4ZXD6**
55mm	90mm	18mm	6011C3	**4ZXD7**	—	—	6011LLBC3/L627	**5U582**	6011LLUC3/L627	**4ZXD8**
60mm	95mm	18mm	6012C3	**4ZXD9**	6012ZZC3/L627	**5U511**	6012LLBC3/L627	**5U510**	6012LLUC3/L627	**4ZXE1**
6200 Series										
10mm	30mm	9mm	6200C3	**4ZXE2**	6200ZZC3/L627	**1L013**	6200LLBC3/L627	**6L022**	6200LLUC3/L627	**4ZXE3**
12mm	32mm	10mm	6201C3	**4ZXE4**	6201ZZC3/L627	**1L014**	6201LLBC3/L627	**6L023**	6201LLUC3/L627	**4ZXE5**
15mm	35mm	11mm	6202C3	**4ZXE6**	6202ZZC3/L627	**1L015**	6202LLBC3/L627	**6L024**	6202LLUC3/L627	**4ZXE7**
17mm	40mm	12mm	6203C3	**4ZXE8**	6203ZZC3/L627	**1L016**	6203LLBC3/L627	**6L025**	6203LLUC3/L627	**4ZXE9**
20mm	47mm	14mm	6204C3	**4ZXF1**	6204ZZC3/L627	**1L017**	6204LLBC3/L627	**6L026**	6204LLUC3/L627	**4ZXF2**
25mm	52mm	15mm	6205C3	**4ZXF3**	6205ZZC3/L627	**1L018**	6205LLBC3/L627	**6L027**	6205LLUC3/L627	**4ZXF4**
30mm	62mm	16mm	6206C3	**4ZXF5**	6206ZZC3/L627	**1L019**	6206LLBC3/L627	**6L028**	6206LLUC3/L627	**4ZXF6**
35mm	72mm	17mm	6207C3	**4ZXF7**	6207ZZC3/L627	**1L020**	6207LLBC3/L627	**6L029**	6207LLUC3/L627	**4ZXF8**
40mm	80mm	18mm	6208C3	**4ZXF9**	6208ZZC3/L627	**1L021**	6208LLBC3/L627	**6L030**	6208LLUC3/L627	**4ZXG1**
45mm	85mm	19mm	6209C3	**4ZXG2**	6209ZZC3/L627	**1L022**	6209LLBC3/L627	**6L031**	6209LLUC3/L627	**4ZXG3**
50mm	90mm	20mm	6210C3	**4ZXG4**	6210ZZC3/L627	**1L023**	6210LLBC3/L627	**6L032**	6210LLUC3/L627	**4ZXG5**
55mm	100mm	21mm	6211C3	**4ZXG6**	6211ZZC3/L627	**1L024**	6211LLBC3/L627	**6L033**	6211LLUC3/L627	**4ZXG7**
60mm	110mm	22mm	6212C3	**4ZXG8**	6212ZZC3/L627	**1L025**	6212LLBC3/L627	**6L034**	6212LLUC3/L627	**4ZXG9**
6300 Series										
10mm	35mm	11mm	—	—	6300ZZC3/L627	**5U562**	6300LLBC3/L627	**5U561**	6300LLUC3/L627	**4ZXH1**
12mm	37mm	12mm	6301C3	**4ZXH2**	6301ZZC3/L627	**5U564**	6301LLBC3/L627	**5U563**	6301LLUC3/L627	**4ZXH3**
15mm	42mm	13mm	6302C3	**4ZXH4**	6302ZZC3/L627	**5U566**	6302LLBC3/L627	**5U565**	6302LLUC3/L627	**4ZXH5**
17mm	47mm	14mm	6303C3	**4ZXH6**	6303ZZC3/L627	**6L035**	6303LLBC3/5C	**6L052**	6303LLUC3/L627	**4ZXH7**
20mm	52mm	15mm	6304C3	**4ZXH8**	6304ZZC3/L627	**6L036**	6304LLBC3/L627	**6L053**	6304LLUC3/L627	**4ZXH9**
25mm	62mm	17mm	6305C3	**4ZXJ1**	6305ZZC3/L627	**6L037**	6305LLBC3/L627	**6L054**	6305LLUC3/L627	**4ZXJ2**
30mm	72mm	19mm	6306C3	**4ZXJ3**	6306ZZC3/L627	**6L038**	6306LLBC3/L627	**6L055**	6306LLUC3/L627	**4ZXJ4**
35mm	80mm	21mm	6307C3	**4ZXJ5**	6307ZZC3/L627	**6L039**	6307LLBC3/L627	**6L056**	6307LLUC3/L627	**4ZXJ6**
40mm	90mm	23mm	6308C3	**4ZXJ7**	6308ZZC3/L627	**6L040**	6308LLBC3/L627	**6L057**	6308LLUC3/L627	**4ZXJ8**
45mm	100mm	25mm	6309C3	**4ZXJ9**	6309ZZC3/L627	**6L041**	6309LLBC3/L627	**6L058**	6309LLUC3/L627	**4ZXK1**
50mm	110mm	27mm	6310C3	**4ZXK2**	6310ZZC3/L627	**6L042**	6310LLBC3/L627	**6L059**	6310LLUC3/L627	**4ZXK3**
55mm	120mm	29mm	6311C3	**4ZXK4**	6311ZZC3/L627	**6L043**	6311LLBC3/L627	**6L060**	6311LLUC3/L627	**4ZXK5**
60mm	130mm	31mm	6312C3	**4ZXK6**	6312ZZC3/L627	**6L044**	6312LLBC3/L627	**5U567**	6312LLUC3/L627	**4ZXK7**

Bore Dia.	Outside Dia.	W	DOUBLE SHIELDED Mfr. Model	DOUBLE SHIELDED Item No.	DOUBLE SEALED Mfr. Model	DOUBLE SEALED Item No.
R Series						
0.1875"	0.5000"	0.1960"	RA3ZZ/2AS	**5U482**	RA3LL/L627	**5U481**
0.2500"	0.6250"	0.1960"	R4ZZC3/2AS	**5U490**	R4LL/2AS	**5U489**
0.3750"	0.8750"	0.2812"	R6ZZC3/L627	**1L004**	R6LLBC3/5C	**1L038**
0.5000"	1.1250"	0.3125"	R8ZZC3/5C	**1L005**	R8LLBC3/5C	**1L039**
0.6250"	1.3750"	0.3437"	R10ZZC3/L627	**1L006**	R10LLBC3/L627	**1L040**
0.7500"	1.6250"	0.4375"	R12ZZC3/L627	**1L007**	R12LLBC3/L627	**1L041**
0.8750"	1.8750"	0.5000"	R14ZZ/2AS	**1L008**	R14LLB/2AS	**1L042**
1.0000"	2.0000"	0.5000"	R16ZZ/2AS	**1L009**	R16LLB/2AS	**1L043**
1.1250"	2.1250"	0.5000"	R18ZZ/2AS	**5U486**	R18LLU/2AS	**5U485**
1.2500"	2.2500"	0.5000"	R20ZZ/2AS	**5U488**	R20LL/2AS	**5U487**
Special Standard Bore Series						
0.3125"	22mm	7mm	608ZZ/7.938PX2/5C	**5U528**	608LLB/7.938PX2/5C	**5U527**
0.5000"	32mm	10mm	6201ZZ/12.7C3/L627	**5U532**	6201LLB/12.7C3/L627	**5U531**
0.6250"	1.3750"	0.4375"	—	—	SC0228LLUC3/L627	**5U491**
0.6250"	35mm	11mm	—	—	6202LLB/15.875C3/L627	**5U533**
0.6250"	40mm	12mm	6203ZZ/15.875C3/L627	**1L097**	6203LLB/15.875C3/L627	**5U537**
16mm	35mm	11mm	6202ZZ/16C3/L627	**5U536**	6202LLB/16C3/L627	**5U534**

Cartridge Single-Row Radial Ball Bearings

NTN®

Identical to NTN Single-Row Radial Ball Bearings above, except wider.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Double Shielded				
35mm	72mm	27mm	63207ZZC3/L627	**4ZXL2**
35mm	80mm	34.9mm	63307ZZC3/L627	**4ZXN9**
40mm	80mm	30.2mm	63208ZZC3/L627	**4ZXL4**
45mm	85mm	30.2mm	63209ZZC3/L627	**4ZXL7**
45mm	100mm	39.7mm	63309ZZC3/L627	**4ZXP4**
50mm	90mm	30.2mm	63210ZZC3/L627	**4ZXL9**
70mm	125mm	39.7mm	63214ZZC3/L627	**4ZXN2**
Double Sealed				
20mm	52mm	22.2mm	63304LLBC3/L627	**4ZXN3**
25mm	62mm	25.4mm	63305LLBC3/L627	**4ZXN4**
30mm	62mm	23.8mm	63206LLBC3/L627	**4ZXK9**

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Double Sealed (Cont.)				
30mm	72mm	30.2mm	63306LLBC3/L627	**4ZXN6**
35mm	72mm	27mm	63207LLBC3/L627	**4ZXL1**
35mm	80mm	34.9mm	63307LLBC3/L627	**4ZXN8**
40mm	80mm	30.2mm	63208LLBC3/L627	**4ZXL3**
40mm	90mm	36.5mm	63308LLBC3/L627	**4ZXP1**
45mm	85mm	30.2mm	63209LLBC3/L627	**4ZXL5**
45mm	100mm	39.7mm	63309LLBC3/L627	**4ZXP3**
50mm	90mm	30.2mm	63210LLBC3/L627	**4ZXL8**
50mm	110mm	44.4mm	63310LLBC3/L627	**4ZXP5**
55mm	100mm	33.3mm	63211LLBC3/L627	**4ZXN1**
60mm	130mm	54mm	63312LLBC3/L627	**4ZXP8**
65mm	140mm	58.7mm	63313LLBC3/L627	**4ZXR1**



Double-Shielded No. 4ZXL2

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Double Contact Sealed				
17mm	40mm	17.5mm	63203LLUC3/L627	**4ZXK8**
25mm	62mm	25.4mm	63305LLUC3/L627	**4ZXN5**
30mm	72mm	30.2mm	63306LLUC3/L627	**4ZXN7**
45mm	85mm	30.2mm	63209LLUC3/L627	**4ZXL6**



No. 4ZZP5

Banded Ball Thrust Bearings

Support axial forces in a single direction. Grooved race and steel cage.

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
0.500"	1.219"	0.563"	3850 lb.	5600 lb.	7000	D1	**4ZZP5**
0.625"	1.344"	0.563"	4100 lb.	6700 lb.	6000	D3	**4ZZP6**
0.688"	1.344"	0.563"	4100 lb.	6700 lb.	6000	D4	**4ZZP7**
0.750"	1.469"	0.563"	4250 lb.	7300 lb.	5500	D5	**4ZZP8**
0.813"	1.469"	0.563"	4250 lb.	7300 lb.	5500	D6	**4ZZP9**
0.875"	1.844"	0.625"	6600 lb.	12,200 lb.	4100	D7	**4ZZR1**
0.938"	1.844"	0.625"	6600 lb.	12,200 lb.	4100	D8	**4ZZR2**
1"	1.969"	0.625"	6700 lb.	13,100 lb.	3800	D9	**4ZZR3**
1.063"	1.969"	0.625"	6700 lb.	13,100 lb.	3800	D10	**4ZZR4**
1.125"	2.094"	0.625"	6900 lb.	14,000 lb.	3600	D11	**4ZZR5**
1.188"	2.094"	0.625"	6900 lb.	14,000 lb.	3600	D12	**4ZZR6**
1.250"	2.344"	0.625"	7200 lb.	15700 lb.	3200	D13	**4ZZR7**
1.313"	2.344"	0.625"	7200 lb.	15700 lb.	3200	D14	**4ZZR8**
1.375"	2.469"	0.625"	7300 lb.	16,600 lb.	3000	D15	**4ZZR9**
1.5"	2.594"	0.625"	7700 lb.	18,300 lb.	2800	D17	**4ZZT1**
1.625"	2.969"	0.813"	10,300 lb.	25,000 lb.	2400	D19	**4ZZT3**
1.75"	3.094"	0.813"	10,600 lb.	26,500 lb.	2300	D21	**4ZZT4**
2"	3.344"	0.813"	10,800 lb.	29,000 lb.	2100	D25	**4ZZT5**
2.5"	3.969"	0.813"	11,500 lb.	34,000 lb.	1800	D33	**4ZZT7**
2.563"	3.969"	0.813"	11,500 lb.	34,000 lb.	1800	D34	**4ZZT8**



No. 4XFF9

Drawn Cup Needle Roller Bearings

Provide maximum capacity in minimal radial space. Caged with open ends for through shafts. Mount with press fit in housing.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Inch				
0.187"	0.344"	0.375"	SCE36	**4XFF9**
0.250"	0.437"	0.250"	SCE44	**4XFG1**
	0.437"	0.437"	SCE47	**4XFG3**
	0.437"	0.313"	SCE45	**4XFG2**
0.313"	0.500"	0.313"	SCE55	**4XFG4**
	0.500"	0.437"	SCE57	**4XFG5**
	0.500"	0.563"	SCE59	**4XFG6**
0.375"	0.563"	0.313"	SCE65	**4XFG7**
	0.563"	0.500"	SCE68	**4XFG8**
	0.563"	0.625"	SCE610	**4XFG9**
0.437"	0.625"	0.500"	SCE78	**4XFH1**
0.500"	0.687"	0.370"	SCE86	**4XFH4**
	0.687"	0.750"	SCE812	**4XFH3**
	0.687"	0.500"	SCE88	**4XFH5**
	0.687"	0.625"	SCE810	**4XFH2**
0.625"	0.813"	0.437"	SCE107	**4XFH7**
	0.813"	0.500"	SCE108	**4XFH8**
	0.813"	0.625"	SCE1010	**4XFH9**
0.687"	0.875"	0.500"	SCE118	**4XFJ1**
0.750"	1.000"	0.500"	SCE128	**4XFJ2**
	1.000"	0.625"	SCE1210	**4XFJ3**
	1.000"	0.750"	SCE1212	**4XFJ4**
0.875"	1.125"	0.500"	SCE148	**4XFJ5**
	1.125"	0.750"	SCE1412	**4XFJ6**
1"	1.250"	0.500"	SCE168	**4XFJ7**
	1.250"	0.750"	SCE1612	**4XFJ8**
1.125"	1.375"	0.750"	SCE1812	**4XFJ9**
1.250"	1.500"	0.750"	SCE2012	**4XFK1**
	1.500"	1.000"	SCE2016	**4XFK2**
1.375"	1.625"	0.500"	SCE228	**4XFK3**
	1.625"	0.750"	SCE2212	**4XFK4**
1.5"	1.875"	0.750"	SCE2412	**4XFK6**
1.750"	2.125"	1.000"	SCE2816	**4XFK7**

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Metric				
4mm	8mm	8mm	HK0408	**4ZZW1**
5mm	9mm	9mm	HK0509	**4ZZW2**
6mm	10mm	9mm	HK0609	**4ZZW3**
7mm	11mm	9mm	HK0709	**4ZZW4**
8mm	12mm	8mm	HK0808	**4ZZW5**
8mm	12mm	10mm	HK0810	**4ZZW6**
9mm	13mm	10mm	HK0910	**4ZZW7**
10mm	14mm	10mm	HK1010	**4ZZW8**
12mm	18mm	12mm	HK1212	**4ZZW9**
14mm	20mm	12mm	HK1412	**4ZZX1**
15mm	21mm	12mm	HK1512	**4ZZX2**
20mm	26mm	20mm	HK2020	**4ZZX3**
25mm	32mm	12mm	HK2512	**4ZZX4**
30mm	37mm	12mm	HK3012	**4ZZX5**
35mm	42mm	20mm	HK3520	**4ZZX6**
40mm	47mm	12mm	HK4012	**4ZZX7**
45mm	52mm	20mm	HK4520	**4ZZX8**
60mm	68mm	12mm	HK6012	**4ZZY2**



No. 4XFL8

Needle Roller Thrust Bearings

Needle Roller and Cage Assemblies—Consist of an axial cage with needle rollers. Support axial loads in 1 direction. Use directly with surrounding hardened faces or separate thrust washers to provide the most compact thrust solution.

Thrust Washers—Use as fatigue liners for soft housing faces. Combine with needle roller and cage assembly to form a complete needle roller thrust bearing.

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
Inch Needle Roller and Cage Assemblies							
0.250"	0.687"	0.078"	1370 lb.	3000 lb.	20,000	TC411	**4XFL8**
0.375"	0.812"	0.078"	1620 lb.	4000 lb.	16,000	TC613	**4XFN1**
0.500"	0.937"	0.078"	1920 lb.	5300 lb.	13,000	TC815	**4XFN2**
0.625"	1.125"	0.078"	2170 lb.	6600 lb.	11,000	TC1018	**4XFN3**
0.750"	1.250"	0.078"	2410 lb.	8000 lb.	9500	TC1220	**4XFN4**
0.875"	1.437"	0.078"	2900 lb.	10,500 lb.	8000	TC1423	**4XFN5**
1"	1.562"	0.078"	3150 lb.	12,100 lb.	7500	TC1625	**4XFN6**
1.125"	1.750"	0.078"	3850 lb.	16,300 lb.	6500	TC1828	**4XFN7**
1.25"	1.937"	0.078"	4500 lb.	20,500 lb.	6000	TC2031	**4XFN8**
1.375"	2.062"	0.078"	4600 lb.	21,600 lb.	5500	TC2233	**4XFN9**
1.5"	2.187"	0.078"	4850 lb.	23,700 lb.	5000	TC2435	**4XFP1**
1.75"	2.500"	0.078"	5600 lb.	30,000 lb.	4400	TC2840	**4XFP2**
2"	2.750"	0.078"	5800 lb.	32,500 lb.	4000	TC3244	**4XFP3**
2.5"	3.250"	0.078"	6200 lb.	37,500 lb.	3300	TC4052	**4XFP5**



No. 4XFP6

Inside Dia.	Outside Dia.	1/32" WIDTH Mfr. Model	1/32" WIDTH Item No.	1/16" WIDTH Mfr. Model	1/16" WIDTH Item No.	3/32" WIDTH Mfr. Model	3/32" WIDTH Item No.	1/8" WIDTH Mfr. Model	1/8" WIDTH Item No.
Inch Thrust Washers									
0.250"	0.688"	TWA411	**4XFP6**	—	—	TWC411	**4XFU4**	—	—
0.313"	0.750"	TWA512	**4XFP7**	—	—	—	—	—	—
0.375"	0.813"	TWA613	**4XFP8**	TWB613	**4XFT4**	—	—	—	—
0.500"	0.938"	TWA815	**4XFP9**	TWB815	**4XFT5**	TWC815	**4XFU5**	—	—
0.625"	1.125"	TWA1018	**4XFR1**	TWB1018	**4XFT6**	TWC1018	**4XFU6**	—	—
0.750"	1.250"	TWA1220	**4XFR2**	TWB1220	**4XFT7**	TWC1220	**4XFU7**	TWD1220	**4XFV3**
0.875"	1.438"	TWA1423	**4XFR3**	—	—	TWC1423	**4XFU8**	TWD1423	**4XFV4**
1.000"	1.563"	TWA1625	**4XFR4**	TWB1625	**4XFT8**	TWC1625	**4XFU9**	TWD1625	**4XFV5**
1.125"	1.750"	TWA1828	**4XFR5**	TWB1828	**4XFT9**	TWC1828	**4XFV1**	TWD1828	**4XFV6**
1.250"	1.938"	TWA2031	**4XFR6**	TWB2031	**4XFU1**	—	—	TWD2031	**4XFV7**
1.375"	2.063"	TWA2233	**4XFR7**	—	—	TWC2233	**4XFV2**	—	—
1.500"	2.188"	TWA2435	**4XFR8**	TWB2435	**4XFU2**	—	—	TWD2435	**4XFV8**
1.750"	2.500"	TWA2840	**4XFR9**	TWB2840	**4XFU3**	—	—	TWD2840	**4XFV9**
2.000"	2.750"	TWA3244	**4XFT1**	—	—	—	—	—	—
2.250"	3.000"	TWA3648	**4XFT2**	—	—	—	—	—	—
2.500"	3.250"	TWA4052	**4XFT3**	—	—	—	—	—	—

Bore Dia.	Outside Dia.	H	Dynamic Load Cap. (N)	Static Load Cap. (N)	Max. RPM	Mfr. Model	Item No.
Metric Needle Roller and Cage Assemblies							
8mm	21mm	2mm	7,800	19,400	18000	AXK0821-TV	**4ZZN3**
10mm	24mm	2mm	9,200	25,500	17000	AXK1024	**4ZZN4**
12mm	26mm	2mm	9900	29,000	15000	AXK1226	**4ZZN5**
15mm	28mm	2mm	11,300	36,000	13000	AXK1528	**4ZZN6**
17mm	30mm	2mm	11,900	39,500	12000	AXK1730	**4ZZN7**
20mm	35mm	2mm	13,100	46,500	10000	AXK2035	**4ZZN8**
25mm	42mm	2mm	14,700	58,000	8500	AXK2542	**4ZZN9**
30mm	47mm	2mm	16,300	70,000	7500	AXK3047	**4ZZP1**
35mm	52mm	2mm	17,800	81,000	6500	AXK3552	**4ZZP2**
40mm	60mm	3mm	28,000	114,000	6000	AXK4060	**4ZZP3**
45mm	65mm	3mm	30,000	128,000	5000	AXK4565	**4ZZP4**

Inside Dia.	Outside Dia.	Mfr. Model	Item No.
Metric Thrust Washers, 1mm Wide			
8mm	21mm	AS0821	**4ZZL1**
10mm	24mm	AS1024	**4ZZL2**
12mm	26mm	AS1226	**4ZZL3**
15mm	28mm	AS1528	**4ZZL4**
17mm	30mm	AS1730	**4ZZL5**
20mm	35mm	AS2035	**4ZZL6**
25mm	42mm	AS2542	**4ZZL7**
30mm	47mm	AS3047	**4ZZL8**
35mm	52mm	AS3552	**4ZZL9**
40mm	60mm	AS4060	**4ZZN1**
45mm	65mm	AS4565	**4ZZN2**

INA

Spherical Plain Bearings

ELGES double-sealed, spherical plain bearings support high radial loads with shocks that would damage rolling element bearings. Transmit motion and loads, but allow pivoting to prevent stress on adjacent structure. Suitable for supporting hydraulic cylinder connections to structures that can warp or twist. Maintenance type has lubrication holes and grooves on inner and outer components allowing grease to be pumped through the shaft or housing.



No. 4ZZT9

			MAINTENANCE TYPE				MAINTENANCE-FREE TYPE			
Bore (mm)	Outside Dia. (mm)	Width (mm)	Dynamic Load Cap. (N)	Static Load Cap. (N)	Mfr. Model	Item No.	Dynamic Load Cap. (N)	Static Load Cap. (N)	Mfr. Model	Item No.
17	30	14	21,200	106,000	GE17-DO-2RS	4ZZT9	48,700	81,200	GE17-UK-2RS	4ZZU1
20	35	16	30,000	146,000	GE20-DO-2RS	4ZZU2	67,500	112,000	GE20-UK-2RS	4ZZU3
25	42	20	48,000	240,000	GE25-DO-2RS	4ZZU4	127,000	212,000	GE25-UK-2RS	4ZZU5
30	47	22	62,000	310,000	GE30-DO-2RS	4ZZU6	165,000	275,000	GE30-UK-2RS	4ZZU7
35	55	25	80,000	400,000	GE35-DO-2RS	4ZZU8	210,000	350,000	GE35-UK-2RS	4ZZU9
40	62	28	100,000	500,000	GE40-DO-2RS	4ZZV1	277,000	462,000	GE40-UK-2RS	4ZZV2
45	68	32	—	—	—	—	360,000	600,000	GE45-UK-2RS	4ZZV3
50	75	35	156,000	780,000	GE50-DO-2RS	4ZZV4	442,000	737,000	GE50-UK-2RS	4ZZV5
60	90	44	245,000	1,220,000	GE60-DO-2RS	4ZZV6	690,000	1,150,000	GE60-UK-2RS	4ZZV7
70	105	49	315,000	1,560,000	GE70-DO-2RS	4ZZV8	885,000	1,475,000	GE70-UK-2RS	4ZZV9

Dayton

Steel Reducer Bushings



No. 6L100

- Pkg. qty. 3

Instantly adapt larger bores of various tools (pulleys, gears, sprockets) to smaller dia. shafts. Galvanized steel. 3/16" open slot for keyway and setscrew.

Inside Dia.	Outside Dia.	L	Item No.
1/4"	5/16"	1"	6L100
	3/8"	1 1/16"	6L101
5/16"	3/8"	1 1/16"	6L102
3/8"	7/16"	1 1/16"	6L103
	1/2"	1"	4X664
1/2"	5/8"	1 1/4"	2X773
5/8"	3/4"	1 1/4"	2X774
3/4"	1"	1 1/4"	2X775
7/8"	1"	1 5/16"	2X653

Dayton

UHMW-PE Sleeve Bearings



No. 3ZN23

- Max. PV: 3000
- Temp. range: -60° to 180°F

UHMW-PE (ultra-high molecular weight polyethylene) provides excellent durability and low friction. Self-lubricating bearings. Great for applications involving slow rotational or linear motion. White color. USDA/FDA approved.

Inside Dia.	Outside Dia.	L	Item No.
1/4"	3/8"	1/2"	3ZN23
3/8"	1/2"	1/2"	3ZN24
1/2"	5/8"	1"	3ZN20
	3/4"	1"	3ZN21
5/8"	3/4"	3/4"	3ZN22
3/4"	1"	1"	3ZN18
1"	1 1/4"	1"	3ZN19



No. 1X868



No. 1X968

Dayton

Bronze Sleeve Bearings/Bushings

- Maximum PV: 50,000.
- Temperature range: -5° to 220°F.

Oil-impregnated and self-lubricating bearings are high-quality sintered bronze alloy.

Inside Dia.	Outside Dia.	L	Item No.
1/4"	5/16"	3/4"	2X355
1/4"	3/8"	1/2"	3ZM99
1/4"	3/8"	1"	2X380
3/8"	1/2"	1/2"	3ZN01
3/8"	1/2"	1"	1X871
1/2"	5/8"	5/8"	3ZN02
1/2"	5/8"	1 1/8"	1X868
1/2"	1 1/16"	1 1/8"	1X866
1/2"	3/4"	1 1/8"	1X870
5/8"	3/4"	1"	1X867
5/8"	3/4"	1 1/8"	1X869
3/4"	1"	1 1/8"	1X872
56-Pc. Bronze Sleeve Bearing Kit			1X968

Kit No. 1X968 Contains:

Qty.	Inside Dia.	Outside Dia.	L
10	1/4"	5/16"	3/4"
5	1/4"	3/8"	1"
5	3/8"	1/2"	1"
12	1/2"	5/8"	1 1/8"
5	1/2"	1 1/16"	1 1/8"
5	1/2"	3/4"	1 1/8"
5	5/8"	3/4"	1"
5	5/8"	3/4"	1 1/8"
4	3/4"	1"	1 1/8"

Get Your Bushing and Bearing Tools on Grainger.com®

Bushing drivers, bearing pullers, bench and portable arbor presses, and more are available at online. Search for them by name and select from our wide assortment. We've even got handy sets of often-used bushing and bearing tools in plastic carrying cases. Find more on **Grainger.com®**.



Bearing Tool Set
No. 1X351

Portable Arbor Press
No. 3ZM98

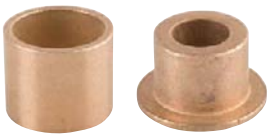


Dayton



Bushing Driver Set
No. 4X083

Scan. Order. Done.
Details on page A1.



Flanged

Bronze Sleeve Bearings/Bushings

Additional styles and sizes are available on Grainger.com®.

SAE 841: Oil-Impregnated—Sintered bronze bearings conform to ASTM chemical and physical properties. Vacuum-impregnated with SAE 30 oil that provides lubricant which is metered from the bearing to the shaft during rotation.

- Max. PV: 50,000
- Temp. range: 10° to 220°F

SAE 660: Cast-Bronze—Machined from continuous-cast C93200 bronze. Provide a uniform bronze structure throughout the bearing, free from porosity and hard particle inclusions.

- Max. PV: 75,000
- Temp. range: -40° to 500°F

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 841					
3/16"	5/16"	1/4"	EP030504	3	**12R701**
3/16"	5/16"	3/8"	EP030506	3	**12R702**
3/16"	5/16"	1/2"	EP030508	3	**12R703**
1/4"	5/16"	1/4"	EP040504	3	**12R704**
1/4"	3/8"	1/4"	EP040604	3	**12R705**
1/4"	3/8"	3/8"	EP040606	3	**12R706**
1/4"	3/8"	1/2"	EP040608	3	**12R707**
1/4"	3/8"	5/8"	EP040610	3	**12R708**
1/4"	3/8"	3/4"	EP040612	3	**12R709**
1/4"	1/2"	1/2"	EP040808	3	**12R710**
1/4"	1/2"	3/4"	EP040812	3	**12R711**
1/4"	1/2"	1"	EP040816	3	**12R712**
5/16"	7/16"	3/8"	EP050706	3	**12R713**
5/16"	7/16"	1/2"	EP050708	3	**12R714**
5/16"	7/16"	5/8"	EP050710	3	**12R715**
5/16"	7/16"	3/4"	EP050712	3	**12R716**
5/16"	7/16"	1"	EP050716	3	**12R717**
5/16"	1/2"	3/8"	EP050806	3	**12R718**
5/16"	1/2"	1/2"	EP050808	3	**12R719**
5/16"	1/2"	3/4"	EP050812	3	**12R720**
5/16"	1/2"	1"	EP050816	3	**12R721**
5/16"	1/2"	1 1/4"	EP050820	3	**12R722**
3/8"	1/2"	1/4"	EP060804	3	**12R723**
3/8"	1/2"	3/8"	EP060806	3	**12R724**
3/8"	1/2"	1/2"	EP060808	3	**12R725**
3/8"	1/2"	5/8"	EP060810	3	**12R726**
3/8"	1/2"	3/4"	EP060812	3	**12R727**
3/8"	1/2"	1"	EP060816	3	**12R728**
3/8"	5/8"	1/2"	EP061008	3	**12R729**
3/8"	5/8"	5/8"	EP061010	3	**12R730**
3/8"	5/8"	3/4"	EP061012	3	**12R731**
3/8"	5/8"	1"	EP061016	3	**12R732**
1/2"	5/8"	3/8"	EP081006	3	**12R733**
1/2"	5/8"	1/2"	EP081008	3	**12R734**
1/2"	5/8"	5/8"	EP081010	3	**12R735**
1/2"	5/8"	3/4"	EP081012	3	**12R736**
1/2"	5/8"	1"	EP081016	3	**12R737**
1/2"	5/8"	1 1/4"	EP081020	3	**12R738**
1/2"	3/4"	1/2"	EP081208	3	**12R739**
1/2"	3/4"	5/8"	EP081210	3	**12R740**
1/2"	3/4"	3/4"	EP081212	3	**12R741**
1/2"	3/4"	1"	EP081216	3	**12R742**
9/16"	11/16"	3/4"	EP091112	3	**12R743**
5/8"	3/4"	1/2"	EP101208	3	**12R744**
5/8"	3/4"	5/8"	EP101210	3	**12R745**
5/8"	3/4"	3/4"	EP101212	3	**12R746**
5/8"	3/4"	1"	EP101216	3	**12R747**
5/8"	3/4"	1 1/2"	EP101224	3	**12R748**
5/8"	7/8"	1/2"	EP101408	3	**12R749**
5/8"	7/8"	5/8"	EP101410	3	**12R750**
5/8"	7/8"	3/4"	EP101412	3	**12R751**
5/8"	7/8"	1"	EP101416	3	**12R752**
5/8"	7/8"	1 1/4"	EP101420	3	**12R753**
3/4"	7/8"	1/2"	EP121408	3	**12R754**
3/4"	7/8"	3/4"	EP121412	3	**12R755**
3/4"	15/16"	3/4"	EP121512	3	**12R756**
3/4"	1"	1/2"	EP121608	3	**12R757**
3/4"	1"	5/8"	EP121610	3	**12R758**
3/4"	1"	3/4"	EP121612	3	**12R759**
3/4"	1"	1"	EP121616	3	**12R760**
3/4"	1"	1 1/4"	EP121620	3	**12R761**
3/4"	1"	1 1/2"	EP121624	3	**12R762**
7/8"	1 1/8"	3/4"	EP141812	3	**12R763**
7/8"	1 1/8"	1"	EP141816	3	**12R764**
1"	1 1/8"	1"	EP161816	3	**12R765**
1"	1 1/4"	1/2"	EP162008	3	**12R766**
1"	1 1/4"	3/4"	EP162012	3	**12R767**
1"	1 1/4"	1"	EP162016	3	**12R768**
1"	1 1/4"	1 1/4"	EP162020	3	**12R769**
1"	1 1/4"	1 1/2"	EP162024	3	**12R770**
1 1/4"	1 1/2"	1"	EP202416	1	**12R771**
1 1/4"	1 1/2"	1 1/4"	EP202420	1	**12R772**
1 1/2"	1 3/4"	1 1/2"	EP242824	1	**12R773**

Inside Dia.	Outside Dia.	L	Flange Dia.	Flange Thickness	Mfr. Model	Pkg. Qty.	Item No.
SAE 841 Flanged							
3/16"	5/16"	1/4"	7/16"	1/16"	EF030504	3	**12R645**
3/16"	5/16"	3/8"	7/16"	1/16"	EF030506	3	**12R646**
3/16"	5/16"	1/2"	7/16"	1/16"	EF030508	3	**12R647**
1/4"	3/8"	1/4"	1/2"	1/16"	EF040604	3	**12R648**
1/4"	3/8"	3/8"	1/2"	1/16"	EF040606	3	**12R649**
1/4"	3/8"	1/2"	1/2"	1/16"	EF040608	3	**12R650**
1/4"	3/8"	5/8"	1/2"	1/16"	EF040610	3	**12R651**
1/4"	3/8"	3/4"	1/2"	1/16"	EF040612	3	**12R652**
5/16"	7/16"	3/8"	9/16"	1/16"	EF050706	3	**12R653**
5/16"	7/16"	1/2"	9/16"	1/16"	EF050708	3	**12R654**
5/16"	7/16"	3/4"	9/16"	1/16"	EF050712	3	**12R655**
3/8"	1/2"	3/8"	11/16"	1/16"	EF050806	3	**12R656**
3/8"	1/2"	1/4"	11/16"	1/16"	EF060804	3	**12R657**
3/8"	1/2"	3/8"	11/16"	1/16"	EF060806	3	**12R658**
3/8"	1/2"	1/2"	11/16"	1/16"	EF060808	3	**12R659**
3/8"	1/2"	3/4"	11/16"	1/16"	EF060812	3	**12R660**
3/8"	1/2"	1"	11/16"	1/16"	EF060816	3	**12R661**
3/8"	5/8"	1/2"	7/8"	1/16"	EF061008	3	**12R662**
3/8"	5/8"	3/4"	7/8"	1/16"	EF061012	3	**12R663**
3/8"	5/8"	1"	7/8"	1/16"	EF061016	3	**12R664**
1/2"	5/8"	3/8"	7/8"	1/8"	EF081006	3	**12R665**
1/2"	5/8"	1/2"	7/8"	1/8"	EF081008	3	**12R666**
1/2"	5/8"	5/8"	7/8"	1/8"	EF081010	3	**12R667**
1/2"	5/8"	3/4"	7/8"	1/8"	EF081012	3	**12R668**
1/2"	5/8"	1"	7/8"	1/8"	EF081016	3	**12R669**
1/2"	5/8"	1 1/4"	7/8"	1/8"	EF081020	3	**12R670**
1/2"	3/4"	1/2"	1"	1/8"	EF081208	3	**12R671**
1/2"	3/4"	5/8"	1"	1/8"	EF081210	3	**12R672**
1/2"	3/4"	3/4"	1"	1/8"	EF081212	3	**12R673**
1/2"	3/4"	1"	1"	1/8"	EF081216	3	**12R674**
5/8"	3/4"	5/8"	1"	1/8"	EF101210	3	**12R675**
5/8"	3/4"	3/4"	1"	1/8"	EF101212	3	**12R676**
5/8"	3/4"	1"	1"	1/8"	EF101216	3	**12R677**
5/8"	7/8"	1/2"	1 1/8"	1/8"	EF101408	3	**12R678**
5/8"	7/8"	5/8"	1 1/8"	1/8"	EF101410	3	**12R679**
5/8"	7/8"	3/4"	1 1/8"	1/8"	EF101412	3	**12R680**
5/8"	7/8"	1"	1 1/8"	1/8"	EF101416	3	**12R681**
5/8"	7/8"	1 1/4"	1 1/8"	1/8"	EF101420	3	**12R682**
3/4"	7/8"	1/2"	1 1/8"	1/8"	EF121408	3	**12R683**
3/4"	7/8"	3/4"	1 1/8"	1/8"	EF121412	3	**12R684**
3/4"	15/16"	3/4"	1 1/4"	1/8"	EF121512	3	**12R685**
3/4"	1"	5/8"	1 1/4"	3/16"	EF121610	3	**12R686**
3/4"	1"	3/4"	1 1/4"	3/16"	EF121612	3	**12R687**
3/4"	1"	1"	1 1/4"	3/16"	EF121616	3	**12R688**
3/4"	1"	1 1/4"	1 1/4"	3/16"	EF121620	3	**12R689**
3/4"	1"	1 1/2"	1 1/4"	3/16"	EF121624	3	**12R690**
7/8"	1 1/8"	3/4"	1 1/2"	1/8"	EF141812	3	**12R691**
7/8"	1 1/8"	1"	1 1/2"	1/8"	EF141816	3	**12R692**
1"	1 1/4"	3/4"	1 1/2"	1/8"	EF162012	3	**12R693**
1"	1 1/4"	1"	1 1/2"	1/8"	EF162016	3	**12R694**
1"	1 1/4"	1 1/4"	1 1/2"	1/8"	EF162020	3	**12R695**
1"	1 1/4"	1 1/2"	1 1/2"	1/8"	EF162024	3	**12R696**
1 1/4"	1 1/2"	1"	1 3/4"	3/16"	EF202416	1	**12R697**
1 1/4"	1 1/2"	1 1/4"	1 3/4"	3/16"	EF202420	1	**12R698**
1 1/2"	1 3/4"	1 1/2"	2"	3/16"	EF242824	1	**12R699**

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660					
3/16"	5/16"	1"	CB030508	3	**13T437**
1/4"	3/8"	1"	CB040608	3	**13T442**
1/4"	3/8"	1 1/4"	CB040610	3	**13T443**
5/16"	7/16"	1/2"	CB050704	3	**13T448**
5/16"	7/16"	3/4"	CB050706	3	**13T449**
5/16"	7/16"	1 1/4"	CB050710	3	**13T451**
5/16"	1/2"	3/4"	CB050806	3	**13T452**
5/16"	1/2"	1"	CB050808	3	**13T453**
3/8"	1/2"	1/2"	CB060804	3	**13T456**
3/8"	1/2"	3/4"	CB060806	3	**13T457**
3/8"	1/2"	1"	CB060808	3	**13T458**
3/8"	1/2"	1 1/4"	CB060810	3	**13T459**
3/8"	1/2"	1 1/2"	CB060812	3	**13T460**
3/8"	9/16"	3/4"	CB060906	3	**13T461**
3/8"	9/16"	1 1/4"	CB060910	3	**13T463**
3/8"	5/8"	3/4"	CB061006	3	**13T464**
3/8"	5/8"	1"	CB061008	3	**13T465**
3/8"	5/8"	1 1/2"	CB061012	3	**13T467**
7/16"	9/16"	1"	CB070908	3	**13T468**
7/16"	5/8"	1 1/2"	CB071012	3	**13T475**
7/16"	5/8"	2"	CB071016	3	**13T476**
7/16"	3/4"	1 1/4"	CB071210	3	**13T479**
1/2"	5/8"	5/8"	CB081005	3	**13T482**
1/2"	5/8"	3/4"	CB081006	3	**13T483**
1/2"	5/8"	1"	CB081008	3	**13T485**
1/2"	5/8"	1 1/4"	CB081010	3	**13T486**
1/2"	5/8"	1 3/8"	CB081011	3	**13T487**
1/2"	5/8"	1 1/2"	CB081012	3	**13T488**
1/2"	5/8"	1 3/4"	CB081014	3	**13T489**
1/2"	5/8"	2"	CB081016	3	**13T490**
1/2"	5/8"	2 1/4"	CB081018	3	**13T491**
1/2"	11/16"	3/4"	CB081106	3	**13T492**
1/2"	11/16"	2"	CB081116	3	**13T497**
1/2"	11/16"	2 1/2"	CB081120	3	**13T499**
1/2"	3/4"	3/4"	CB081206	3	**13T501**
1/2"	3/4"	1"	CB081208	3	**13T502**
1/2"	3/4"	1 1/4"	CB081210	3	**13T503**
1/2"	3/4"	1 1/2"	CB081212	3	**13T504**
1/2"	3/4"	1 3/4"	CB081214	3	**13T505**
1/2"	3/4"	2"	CB081216	3	**13T506**
1/2"	3/4"	2 1/2"	CB081220	3	**13T508**
1/2"	3/4"	2 3/4"	CB081222	3	**13T509**
1/2"	13/16"	1"	CB081308	3	**13T510**
1/2"	13/16"	1 1/2"	CB081312	3	**13T511**
1/2"	7/8"	1"	CB081408	3	**13T513**
1/2"	7/8"	2"	CB081416	3	**13T517**
1/2"	1"	1"	CB081608	3	**13T518**
1/2"	1"	1 1/2"	CB081612	3	**13T519**
9/16"	11/16"	1 1/2"	CB091112	3	**13T524**

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660 (Cont.)					
9/16"	11/16"	1 3/4"	CB091114	3	**13T525**
9/16"	3/4"	1 3/4"	CB091214	3	**13T532**
5/8"	3/4"	1/2"	CB101204	3	**13T545**
5/8"	3/4"	1"	CB101208	3	**13T547**
5/8"	3/4"	1 1/4"	CB101210	3	**13T549**
5/8"	3/4"	1 1/2"	CB101212	3	**13T550**
5/8"	3/4"	1 3/4"	CB101214	3	**13T551**
5/8"	3/4"	2"	CB101216	3	**13T552**
5/8"	3/4"	2 1/2"	CB101220	3	**13T554**
5/8"	3/4"	3"	CB101224	3	**13T555**
5/8"	13/16"	1"	CB101308	3	**13T556**
5/8"	13/16"	1 1/4"	CB101310	3	**13T557**
5/8"	7/8"	1"	CB101408	3	**13T565**
5/8"	7/8"	2"	CB101416	3	**13T570**
5/8"	7/8"	2 1/2"	CB101420	3	**13T572**
5/8"	7/8"	3"	CB101424	3	**13T573**
5/8"	15/16"	1"	CB101508	3	**13T574**
5/8"	1"	1"	CB101608	3	**13T578**
5/8"	1"	1 1/2"	CB101612	3	**13T579**
5/8"	1 1/8"	1 1/2"	CB101812	3	**13T584**
5/8"	1 1/8"	2 1/4"	CB101818	3	**13T586**
11/16"	1"	1 1/4"	CB111610	3	**13T607**
3/4"	7/8"	1"	CB121408	3	**13T611**
3/4"	7/8"	1 1/4"	CB121410	3	**13T612**
3/4"	7/8"	1 1/2"	CB121412	3	**13T613**
3/4"	7/8"	2"	CB121416	3	**13T615**
3/4"	15/16"	1"	CB121508	3	**13T618**
3/4"	15/16"	2"	CB121516	3	**13T623**
3/4"	1"	3/4"	CB121606	3	**13T629**
3/4"	1"	7/8"	CB121607	3	**13T630**
3/4"	1"	1"	CB121608	3	**13T631**
3/4"	1"	1 1/8"	CB121609	3	**13T632**
3/4"	1"	1 1/4"	CB121610	3	**13T633**
3/4"	1"	1 1/2"	CB121612	3	**13T635**
3/4"	1"	1 3/4"	CB121614	3	**13T636**
3/4"	1"	2"	CB121616	3	**13T638**
3/4"	1"	2 1/2"	CB121620	3	**13T641**
3/4"	1"	3"	CB121624	3	**13T643**
3/4"	1 1/16"	1"	CB121708	3	**13T645**
3/4"	1 1/8"	1"	CB121808	3	**13T651**
3/4"	1 1/8"	1 1/2"	CB121812	3	**13T652**
3/4"	1 1/8"	2"	CB121816	3	**13T653**
3/4"	1 1/4"	1 3/4"	CB122014	3	**13T659**
7/8"	1"	1"	CB141608	3	**13T680**
7/8"	1"	1 1/4"	CB141610	3	**13T681**
7/8"	1"	1 1/2"	CB141612	3	**13T683**
7/8"	1"	1 3/8"	CB141613	3	**13T684**
7/8"	1"	2"	CB141616	3	**13T685**
7/8"	1 1/16"	2"	CB141716	3	**13T690**
7/8"	1 1/8"	1"	CB141808	3	**13T695**
7/8"	1 1/8"	1 1/4"	CB141810	3	**13T696**
7/8"	1 1/8"	2"	CB141816	3	**13T701**
7/8"	1 1/4"	1 1/2"	CB142012	3	**13T713**
7/8"	1 1/4"	2 1/2"	CB142020	3	**13T717**
7/8"	1 3/8"	1 1/2"	CB142212	3	**13T721**
1"	1 1/8"	1"	CB161808	3	**13T742**
1"	1 1/8"	1 3/8"	CB161811	3	**13T743**
1"	1 1/8"	1 1/2"	CB161812	3	**13T744**
1"	1 1/8"	1 3/4"	CB161814	3	**13T745**
1"	1 1/8"	2"	CB161816	3	**13T746**
1"	1 1/8"	2 1/2"	CB161820	3	**13T747**
1"	1 3/16"	7/8"	CB161907	3	**13T748**
1"	1 3/16"	1"	CB161908	3	**13T749**
1"	1 3/16"	1 1/2"	CB161912	3	**13T751**
1"	1 1/4"	1"	CB162008	3	**13T756**
1"	1 1/4"	1 1/2"	CB162012	3	**13T760**
1"	1 1/4"	1 3/4"	CB162014	3	**13T762**
1"	1 1/4"	2"	CB162016	3	**13T764**
1"	1 1/4"	2 1/4"	CB162018	3	**13T765**
1"	1 1/4"	2 1/2"	CB162020	3	**13T766**
1"	1 1/4"	3"	CB162024	3	**13T768**
1"	1 1/4"	3 1/2"	CB162028	3	**13T769**
1"	1 1/4"	4"	CB162032	3	**13T771**
1"	1 1/4"	4 1/2"	CB162036	3	**13T772**
1"	1 5/16"	1 1/2"	CB162112	3	**13T773**
1"	1 5/16"	2"	CB162116	3	**13T774**
1"	1 3/8"	1"	CB162208	3	**13T780**
1"	1 3/8"	1 1/4"	CB162210	3	**13T781**
1"	1 3/8"	2"	CB162216	3	**13T784**
1"	1 3/8"	3"	CB162224	3	**13T787**
1"	1 1/2"	1 1/2"	CB162412	3	**13T792**
1"	1 1/2"	2"	CB162416	3	**13T794**
1"	1 1/2"	2 1/2"	CB162420	3	**13T795**
1"	1 1/2"	3"	CB162424	3	**13T796**
1"	2"	3"	CB163224	3	**13T804**
1 1/16"	1 3/8"	2"	CB172216	1	**13T812**
1 1/8"	1 1/4"	1 1/2"	CB182012	1	**13T817**
1 1/8"	1 1/4"	1 3/4"	CB182014	1	**13T818**
1 1/8"	1 1/4"	2"	CB182016	1	**13T819**
1 1/8"	1 5/16"	2 1/2"	CB182120	1	**13T821**
1 1/8"	1 3/8"	1"	CB182208	1	**13T822**
1 1/8"	1 3/8"	1 1/4"	CB182210	1	**13T823**
1 1/8"	1 3/8"	1 1/2"	CB182212	1	**13T824**
1 1/8"	1 3/8"	2"	CB182216	1	**13T826**
1 1/8"	1 3/8"	2 1/2"	CB182220	1	**13T828**
1 1/8"	1 7/16"	1 1/2"	CB182312	1	**13T833**
1 1/8"	1 1/2"	1 1/2"	CB182412	1	**13T837**
1 1/8"	1 1/2"	2"	CB182416	1	**13T838**
1 1/8"	1 1/2"	3"	CB182424	1	**13T840**
1 1/8"	1 1/2"	4"	CB182432	1	**13T842**
1 1/8"	1 5/8"	1 3/4"	CB182614	1	**13T843**
1 1/8"	1 5/8"	2"	CB182616	1	**13T844**
1 3/16"	1 3/8"	1 3/4"	CB192214	1	**13T853**
1 3/16"	1 3/8"	2"	CB192216	1	**13T854**
1 3/16"	1 3/8"	2 1/2"	CB192220	1	**13T855**

CONTINUED

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

CONTINUED

Bronze Sleeve Bearings/Bushings

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660 (Cont.)					
1 3/16"	1 1/16"	1 1/4"	CB192310	1	**13T856**
1 3/16"	1 7/16"	3"	CB192324	1	**13T860**
1 3/16"	1 11/16"	2"	CB192716	1	**13T872**
1 1/4"	1 7/16"	2"	CB202316	1	**13T876**
1 1/4"	1 7/16"	3"	CB202324	1	**13T878**
1 1/4"	1 1/2"	1"	CB202408	1	**13T879**
1 1/4"	1 1/2"	1 1/8"	CB202409	1	**13T880**
1 1/4"	1 1/2"	1 1/4"	CB202410	1	**13T881**
1 1/4"	1 1/2"	1 3/8"	CB202411	1	**13T882**
1 1/4"	1 1/2"	1 1/2"	CB202412	1	**13T883**
1 1/4"	1 1/2"	1 3/4"	CB202414	1	**13T885**
1 1/4"	1 1/2"	2"	CB202416	1	**13T886**
1 1/4"	1 1/2"	2 3/4"	CB202422	1	**13T889**
1 1/4"	1 1/2"	3"	CB202424	1	**13T890**
1 1/4"	1 1/2"	4 1/2"	CB202436	1	**13T895**
1 1/4"	1 1/2"	5"	CB202440	1	**13T896**
1 1/4"	1 9/16"	2"	CB202516	1	**13T898**
1 1/4"	1 5/8"	1 3/4"	CB202614	1	**13T904**
1 1/4"	1 5/8"	2"	CB202616	1	**13T905**
1 1/4"	1 5/8"	2 1/2"	CB202620	1	**13T906**
1 1/4"	1 5/8"	3 1/2"	CB202628	1	**13T909**
1 1/4"	1 3/4"	1 1/4"	CB202810	1	**13T917**
1 1/4"	1 3/4"	1 3/4"	CB202814	1	**13T918**
1 1/4"	1 3/4"	3"	CB202824	1	**13T923**
1 9/16"	1 1/2"	1 3/4"	CB212414	1	**13T935**
1 3/8"	1 1/2"	1 3/4"	CB222414	1	**13T952**
1 3/8"	1 1/2"	2 1/2"	CB222420	1	**13T954**
1 3/8"	1 5/8"	1 1/4"	CB222610	1	**13T955**
1 3/8"	1 5/8"	1 1/2"	CB222612	1	**13T956**
1 3/8"	1 5/8"	2"	CB222616	1	**13T957**
1 3/8"	1 5/8"	3"	CB222624	1	**13T958**
1 3/8"	1 3/4"	2"	CB222816	1	**13T964**
1 3/8"	1 3/4"	3"	CB222824	1	**13T967**
1 3/8"	1 3/4"	4"	CB222832	1	**13T969**
1 7/16"	1 5/8"	1 3/4"	CB232614	1	**13T977**
1 7/16"	1 5/8"	3"	CB232624	1	**13T979**
1 7/16"	1 3/4"	2 1/4"	CB232818	1	**13T985**
1 7/16"	1 3/4"	3"	CB232824	1	**13T986**
1 7/16"	1 3/4"	4"	CB232832	1	**13T987**
1 7/16"	1 7/8"	3"	CB233024	1	**13T994**
1 7/16"	1 15/16"	3"	CB233124	1	**13T999**
1 7/16"	2"	4"	CB233232	1	**13U006**
1 1/2"	1 5/8"	2"	CB242616	1	**13U007**
1 1/2"	1 11/16"	2 3/4"	CB242722	1	**13U008**
1 1/2"	1 3/4"	1"	CB242808	1	**13U009**
1 1/2"	1 3/4"	1 1/4"	CB242810	1	**13U010**
1 1/2"	1 3/4"	1 1/2"	CB242812	1	**13U011**
1 1/2"	1 3/4"	2"	CB242816	1	**13U013**
1 1/2"	1 3/4"	3"	CB242824	1	**13U016**
1 1/2"	1 7/8"	1 1/2"	CB243012	1	**13U023**
1 1/2"	1 7/8"	2"	CB243016	1	**13U024**
1 1/2"	2"	2"	CB243216	1	**13U033**
1 1/2"	2"	3"	CB243224	1	**13U035**
1 5/8"	1 7/8"	2 1/4"	CB263018	1	**13U051**
1 5/8"	2"	1 3/4"	CB263214	1	**13U054**
1 3/4"	2"	1 1/2"	CB283212	1	**12D340**
1 3/4"	2"	2"	CB283216	1	**12D341**
1 3/4"	2"	2 1/4"	CB283218	1	**12D342**
1 3/4"	2"	3"	CB283224	1	**12D344**
1 3/4"	2 1/8"	2 1/2"	CB283420	1	**12D349**
1 3/4"	2 1/4"	3"	CB283624	1	**12D360**
1 7/8"	2 1/8"	2 1/2"	CB303420	1	**12D373**
2"	2 1/4"	2"	CB323616	1	**12D403**
2"	2 1/2"	2"	CB324016	1	**12D416**
2"	2 1/2"	2 1/2"	CB324020	1	**12D417**
2"	2 1/2"	3"	CB324024	1	**12D418**
2"	2 1/2"	5"	CB324040	1	**12D422**
2 3/16"	2 5/8"	5"	CB354240	1	**12D434**
2 1/4"	2 1/2"	3"	CB364024	1	**12D443**
2 7/16"	2 15/16"	5"	CB394740	1	**12D471**
2 7/16"	3"	3 3/4"	CB394830	1	**12D473**
2 1/2"	2 3/4"	3"	CB404424	1	**12D476**
2 1/2"	3"	3"	CB404824	1	**12D481**
3"	3 1/2"	9"	CB485672	1	**11Y938**
4"	4 1/2"	4"	CB647232	1	**11Y961**



No. 4TDJ6



No. 6PFH7



No. 45ZM98



No. 45ZN01



No. 45ZM99

Induction Bearing Heaters

- 60 Hz

Can be used on bearings, sprockets, gears, couplings, and sleeves. Raising blocks lift bearing heater crossbar to accommodate larger diameter bearings. Nos. 45ZM98, 45ZM99, and 45ZN01 include heat protective gloves rated to 300°F.

Voltage	Amps	Bearing Max. OD	Bearing Width	Max. Temp.	Crossbars Included	Mfr. Model	Item No.
Bearing Heaters							
120	17	11"	4"	250°F	¾", 2"	SC 110V	**4TDJ6**
240	30	22"	7½"	250°F	1¼", 3"	BC 220V	**4TDJ7**
240	30	22"	11½"	250°F	1¼", 3"	BCS 220V	**39F028**
480	20	22"	7½"	250°F	1¼", 3"	BC 440V	**4TDJ8**
480	20	22"	11½"	250°F	1¼", 3"	BCS 440V	**39F029**
Bearing Heater with Temperature Probe, Preset Temperature/Time Digital Display, and Auto Shut-Off							
120	20	11"	4"	250°F	¾", 2"	SC110D	**6PFH7**
Portable Bearing Heaters with Magnetic Probe and Temperature/Time Control Digital Display							
120	15	240mm	4¾", 120mm	302°F	¼", ⅜", ½", ¾", 1⅝"	PV2412	**45ZM98**
120	15	380mm	5¼", 135mm	464°F	¼", ⅜", ½", ¾", 1⅝"	PVH3813	**45ZM99**
Bearing Heater with Swivel Arm, Magnetic Probe, and Temperature/Time Control Digital Display							
120	15	520mm	9", 230mm	464°F	½", 1⅛", 2⅜"	SVH5223	**45ZN01**

Description	For Use With	W	H	Mfr. Model	Pkg. Qty.	Item No.
Optional Bearing Heater Raising Blocks						
Increases Bearing Max. OD to 14"	SC Model Bearing Heaters	2⅝"	2⅜"	SCRB	2	**4TDJ9**
Increases Bearing Max. OD to 32"	BC & BCS Model Bearing Heaters	3⅜"	5"	BCRB	2	**4TDK1**

Cone Bearing Heaters

- 120V, 60/50 Hz
- 6A, 725W
- Max. temp.: 248°F
- cCSAus and CE Certified

Use heaters on bearings, sprockets, gears, couplings, and sleeves. Include heat protective gloves rated to 300°F.

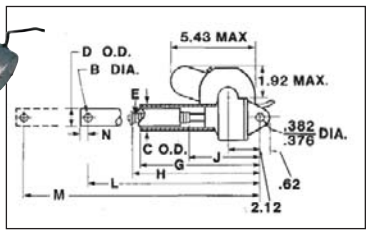
Bearing ID Range	Bearing Max. Weight	Dim. W	Dim. H	Mfr. Model	Item No.
Includes: Heat Sensitive Marking Crayon					
⅜ to 8¼"	15.43 lb.	8⅝"	9½"	GCS-NCB	**52HZ27**
Includes: Temperature Control Box					
⅜ to 8¼"	15.43 lb.	8⅝"	9½"	GCS-CB	**52HZ28**



No. 52HZ27



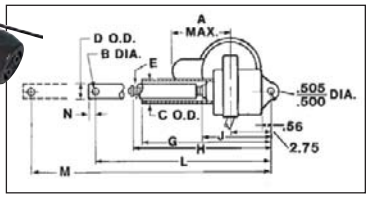
Totally Enclosed Nonventilated
No. 1XFY1



TENV



Totally Enclosed Fan-Cooled
No. 1XFX8



TEFC

General Purpose Linear Actuators

- Linear motion: 10" to 12"; can be modified to shorter stroke lengths
- 115VAC, 60 Hz PSC motor
- Automatic thermal protection
- Limit switches: adjustable
- Duty cycle: 25%, 1 min. On/3 min. Off max.
- Single right-hand Acme screw

Adjustable internal limit switches provide control in positioning applications. For additional stroke modification, remove outer and translator tubes and replace with included driver nut. Single-lead, rolled-thread lifting screw for long life and smooth operation. Built-in worm gear is set for quiet gear reduction. Outer tube protects screw and nut from dust. Includes capacitor. UL Recognized (E37403) and CSA Certified.

Item No.	Dimensions A	B	C	D	E	G	H	J	L	M	N
1XFY1	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFX9	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFX8	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20½"	32½"	½"
1XFX7	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20½"	32½"	½"
1XFX6	3.94"	0.505/0.500"	2.5"	2"	1 to 5"	19"	19.20"	5.30"	20½"	30½"	¾"

Rated Load	Stroke Length	Speed @ Rated Load	Full Load Amps	Item No.
Totally Enclosed Nonventilated				
300 lb.	12"	19.4 in./min.	1.4	**1XFY1**
400 lb.	12"	8.4 in./min.	1.4	**1XFX9**
Totally Enclosed Fan-Cooled				
1000 lb.	12"	8.9 in./min.	1.8	**1XFX8**
1000 lb.	12"	20 in./min.	4.2	**1XFX7**
1300 lb.	10"	8.9 in./min.	4.2	**1XFX6**

Duff-Norton

Compact Linear Actuators



- Die-cast aluminum housing
- Aluminum inner and outer tubes; inner tube is keyed and polished
- Limit switches: nonadjustable
- Duty cycle: 20%
- Self-locking Acme screw gear drive
- Clevis mount
- IP66 sealing protection

Internal limit switches are factory-preset. Actuators are CE Compliant.

CONTROLLER/POWER SUPPLY

Use for AC applications. Features 120VAC input and 3 x 24VDC outputs. Use with Nos. 5FTF2 to 5FTF8 actuators only. Battery backup. 6-ft. AC cable. Use No. 5FTJ5 to connect actuator to controller/power supply. Actuator movement is not synchronized. If using multiple actuators on 1 controller, load must not exceed capacity of a single actuator.

HANDSET

Features 2 buttons with up/down arrows and snap-on hook. For use with Controller/Power Supply No. 5FTJ2 only. 5-ft. cable.

Rated Load	Stroke Length	Speed @ Rated Load	Full Load Amps	Retracted Length	Mfr. Model	Item No.
12VDC						
27 lb.	2"	78 in./min.	2.5	6"	LT25-1-50	**5FTD3**
	3 29/32"	78 in./min.	2.5	8"	LT25-1-100	**5FTD4**
	5 29/32"	78 in./min.	2.5	10"	LT25-1-150	**5FTD5**
	7 29/32"	78 in./min.	2.5	12"	LT25-1-200	**5FTD6**
	9 13/16"	78 in./min.	2.5	14"	LT25-1-250	**5FTD7**
	11 13/16"	78 in./min.	2.5	16"	LT25-1-300	**5FTD8**
112 lb.	1"	30 in./min.	3.5	5"	LT100-1-25	**5FTD9**
	2"	30 in./min.	3.5	6"	LT100-1-50	**5FTE0**
	4"	30 in./min.	3.5	8"	LT100-1-100	**5FTE1**
	5 29/32"	30 in./min.	3.5	10"	LT100-1-150	**5FTE2**
	7 29/32"	30 in./min.	3.5	12"	LT100-1-200	**5FTE3**
	9 13/16"	30 in./min.	3.5	14"	LT100-1-250	**5FTE4**
	11 13/16"	30 in./min.	3.5	16"	LT100-1-300	**5FTE5**
225 lb.	2"	12 in./min.	3.5	6"	LT225-1-50	**5FTE6**
	4"	12 in./min.	3.5	8"	LT225-1-100	**5FTE7**
	5 29/32"	12 in./min.	3.5	10"	LT225-1-150	**5FTE8**
	7 29/32"	12 in./min.	3.5	12"	LT225-1-200	**5FTE9**
	9 13/16"	12 in./min.	3.5	14"	LT225-1-250	**5FTF0**
	11 13/16"	12 in./min.	3.5	16"	LT225-1-300	**5FTF1**
24VDC						
112 lb.	1"	30 in./min.	2	5"	LT100-2-25	**5FTF2**
	2"	30 in./min.	2	6"	LT100-2-50	**5FTF3**
	4"	30 in./min.	2	8"	LT100-2-100	**5FTF4**
	5 29/32"	30 in./min.	2	10"	LT100-2-150	**5FTF5**
	7 29/32"	30 in./min.	2	12"	LT100-2-200	**5FTF6**
	9 13/16"	30 in./min.	2	14"	LT100-2-250	**5FTF7**
	11 13/16"	30 in./min.	2	16"	LT100-2-300	**5FTF8**

Description	Mfr. Model	Item No.
Accessories		
Controller/Power Supply	LC2B-223112	**5FTJ2**
39" Extension Cable with DIN Plug	LTEC	**5FTJ5**
Handset	LH1-111-1016	**5FTJ3**

Linear Actuators



K2 Series



M-Track Series

Rated Load	Stroke Length	Speed @ Rated Load	Retracted Length	12VDC Full Load Amps	12VDC Item No.	24VDC Full Load Amps	24VDC Item No.
M-Track 1 Series							
100 lb.	2"	27 in./min.	6¼"	4.5	**18G681**	—	— —
	2"	30 in./min.	6¼"	—	— —	2.3	**18G684**
	4"	30 in./min.	8¼"	4.5	**18G682**	2.3	**18G685**
	6"	30 in./min.	10¼"	4.5	**18G683**	2.3	**18G686**

Rated Load	Stroke Length	Speed @ Rated Load	12VDC Retracted Length	12VDC Full Load Amps	12VDC Item No.	24VDC Retracted Length	24VDC Full Load Amps	24VDC Item No.	115VAC Retracted Length	115VAC Full Load Amps	115VAC Item No.
K2 SERIES											
600 lb.	4"	60 in./min.	10¼"	25	**18G641**	10¼"	13	**18G651**	15"	5	**18G661**
	6"	60 in./min.	12¼"	25	**18G642**	12¼"	13	**18G652**	17"	5	**18G662**
	8"	60 in./min.	14¼"	25	**18G643**	14¼"	13	**18G653**	19"	5	**18G663**
	12"	60 in./min.	18¼"	25	**18G644**	18¼"	13	**18G654**	23"	5	**18G664**
	18"	60 in./min.	24¼"	25	**18G645**	24¼"	13	**18G655**	29"	5	**18G665**
1200 lb.	4"	30 in./min.	10¼"	25	**18G646**	10¼"	13	**18G656**	15"	5	**18G666**
	6"	30 in./min.	12¼"	25	**18G647**	12¼"	13	**18G657**	17"	5	**18G667**
	8"	30 in./min.	14¼"	25	**18G648**	14¼"	13	**18G658**	19"	5	**18G668**
	12"	30 in./min.	18¼"	25	**18G649**	18¼"	13	**18G659**	23"	5	**18G669**
	18"	30 in./min.	24¼"	25	**18G650**	24¼"	13	**18G660**	29"	5	**18G670**
K2X SERIES											
1200 lb.	4"	54 in./min.	12"	25	**18G750**	12"	13	**18G760**	15"	5	**18G770**
	6"	54 in./min.	14"	25	**18G751**	14"	13	**18G761**	17"	5	**18G771**
	8"	54 in./min.	16"	25	**18G752**	16"	13	**18G762**	19"	5	**18G772**
	12"	54 in./min.	20"	25	**18G753**	20"	13	**18G763**	23"	5	**18G773**
	18"	54 in./min.	26"	25	**18G754**	26"	13	**18G764**	29"	5	**18G774**
2200 lb.	4"	30 in./min.	12"	25	**18G755**	12"	13	**18G765**	15"	5	**18G775**
	6"	30 in./min.	14"	25	**18G756**	14"	13	**18G766**	17"	5	**18G776**
	8"	30 in./min.	16"	25	**18G757**	16"	13	**18G767**	19"	5	**18G777**
	12"	30 in./min.	20"	25	**18G758**	20"	13	**18G768**	23"	5	**18G778**
	18"	30 in./min.	26"	25	**18G759**	26"	13	**18G769**	29"	5	**18G779**

Warner Linear

- Aluminum alloy housing
- Totally enclosed nonventilated motor
- 25% duty cycle
- Clevis mount
- 115VAC are UL Recognized

M-Track 1 Series—Compact, self-contained design is excellent for use in small spaces. Typical uses include throttle control, air vent opening, remote window/mirror positioning, and gate opening.

- Max. ambient temp.: 150°F
- Limit switch: nonadjustable
- CE compliant

K2 Series—Hybrid nut and screw design requires no brake. Intended for severe applications such as fertilizer gate control, mower decks, and implement lifts.

- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable

K2X Series—Ball screw with load control wrap spring brake. Excellent for severe, high-load applications such as commercial mower decks, spray booms, and construction equipment.

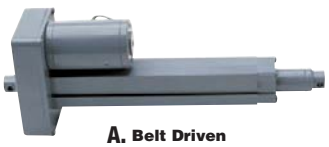
- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable

Duff-Norton

Industrial-Duty Linear Actuators

- Higher speeds and duty cycles
- Aluminum housing
- Can replace pneumatic and hydraulic cylinders
- Limit switches and clutch: adjustable
- Double male clevis mount

Dependable systems are designed to handle the rated load in tension and compression applications. Fast installation. Belt-driven models have a stainless steel translating tube. Gear-driven actuators have a zinc-plated translating tube. 12VDC models have permanent magnet motors. 115VAC thermally protected actuators have 60-Hz permanent split capacitor motors. UL and C-UL Listed, and CSA Certified.



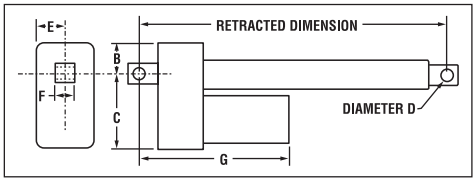
A. Belt Driven
No. 5ZC47



B. Gear Driven
No. 5ZC29



C. Gear Driven
No. 5ZC41



Key	Rated Load	Stroke Length	Speed @ Rated Load	Duty Cycle*	Voltage	Full Load Amps	Retracted Length	Dimensions B	C	D	E	F	G	Mfr. Model	Item No.
Double Clevis Mount, Belt Driven with 2 External Adjustable Reed Limit Switches															
A	100 lb.	4"	42 in./min.	25%	12VDC	7	8¾"	1"	2.15"	.25"	1.08"	0.63"	5.25"	TMD01-1906-4	**5ZC45**
A	100 lb.	8"	42 in./min.	25%	12VDC	7	12¾"	1"	2.15"	.25"	1.08"	0.63"	5.25"	TMD01-1906-8	**5ZC46**
A	100 lb.	12"	42 in./min.	25%	12VDC	7	16¾"	1"	2.15"	.25"	1.08"	0.63"	5.25"	TMD01-1906-12	**5ZC44**
A	250 lb.	4"	24 in./min.	25%	12VDC	7	9"	1.8"	2.88"	.25"	1.59"	0.75"	6.06"	TMD02-1906-4	**5ZC48**
A	250 lb.	8"	24 in./min.	25%	12VDC	7	13"	1.8"	2.88"	.25"	1.59"	0.75"	6.06"	TMD02-1906-8	**5ZC49**
A	250 lb.	12"	24 in./min.	25%	12VDC	7	17"	1.8"	2.88"	.25"	1.59"	0.75"	6.06"	TMD02-1906-12	**5ZC47**
Double Clevis Mount, Gear Driven with Adjustable Travel/Load Limiting Friction-Disc Clutch															
B	500 lb.	6"	42 in./min.	18%	12VDC	11	14¼"	1.38"	7.69"	0.51"	1.32"	0.75"	3.27"	MPD6405-6	**5ZC34**
B	500 lb.	12"	42 in./min.	18%	12VDC	11	20¼"	1.38"	7.69"	0.51"	1.32"	0.75"	3.27"	MPD6405-12	**5ZC32**
B	500 lb.	18"	42 in./min.	18%	12VDC	11	26¼"	1.38"	7.69"	0.51"	1.32"	0.75"	3.27"	MPD6405-18	**5ZC33**
Double Clevis Mount, Gear Driven with 2 Internal Adjustable Limit Switches															
B	500 lb.	6"	35 in./min.	28%	115VAC	2.2	14¼"	1.75"	8.19"	0.51"	1.72"	0.75"	5.69"	GMPB6905-6	**5ZC31**
B	500 lb.	12"	35 in./min.	28%	115VAC	2.2	20¼"	1.75"	8.19"	0.51"	1.72"	0.75"	5.69"	GMPB6905-12	**5ZC29**
B	500 lb.	18"	35 in./min.	28%	115VAC	2.2	26¼"	1.75"	8.19"	0.51"	1.72"	0.75"	5.69"	GMPB6905-18	**5ZC30**
C	1500 lb.	6"	50 in./min.	17%	115VAC	6.5	20"	2.12"	5.75"	.75"	2.3"	1"	15.75"	SPA6415-6	**5ZC43**
C	1500 lb.	12"	50 in./min.	17%	115VAC	6.5	26"	2.12"	5.75"	.75"	2.3"	1"	15.75"	SPA6415-12	**5ZC41**
C	1500 lb.	18"	50 in./min.	17%	115VAC	6.5	32"	2.12"	5.75"	.75"	2.3"	1"	15.75"	SPA6415-18	**5ZC42**

** Duty cycle is based on 75°F ambient temperature. To prevent motor overheating, the actual operating time should be equally spaced throughout any period of elapsed time.*

Duff-Norton

Commercial-Duty Linear Actuators

- Lower duty cycles
- Die-cast aluminum housing
- Can replace pneumatic and hydraulic cylinders
- Limit switches: adjustable

Clevis-mount models have nonventilated enclosures. They feature a cross hole in the extension tube to speed installation. AC models have totally enclosed, permanent split capacitor motors with auto thermal protection and onboard capacitor; UL Listed. DC models have permanent magnet motors without thermal protection.

No. 2DGF8 motor is totally enclosed nonventilated. The actuator installs easily with pipe mount on the housing and a spherical rod end on the extension tube.



A. Male Clevis
No. 1DAV6



B. Female Clevis
No. 1DAW6



C. Female Clevis
No. 1DAW8

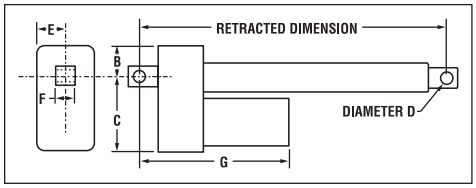


D. Pipe and Rod End
No. 2DGF8

Get More Online

For our full selection of Machine Screw Actuators go to Grainger.com®.





Key	Rated Load	Stroke Length	Speed @ Rated Load	Duty Cycle*	Voltage	Full Load Amps	Retracted Length	Dimensions B	C	D	E	F	G	Mfr. Model	Item No.
Male Clevis Mount, Gear Driven															
A	450 lb.	4"	16 in./min.	17%	115VAC	1.4	11½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS25-1B5TN-04	**1DAV6**
A	450 lb.	8"	16 in./min.	17%	115VAC	1.4	15½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS25-1B5TN-08	**1DAV7**
A	450 lb.	12"	16 in./min.	17%	115VAC	1.4	19½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS25-1B5TN-12	**1DAV8**
A	560 lb.	4"	13 in./min.	17%	115VAC	1.4	11½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS26-1B5TN-04	**1DAV9**
A	560 lb.	8"	13 in./min.	17%	115VAC	1.4	15½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS26-1B5TN-08	**1DAW1**
A	560 lb.	12"	13 in./min.	17%	115VAC	1.4	19½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS26-1B5TN-12	**1DAW2**
A	675 lb.	4"	9 in./min.	17%	115VAC	1.4	11½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS28-1B5TN-04	**1DAW3**
A	675 lb.	8"	9 in./min.	17%	115VAC	1.4	15½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS28-1B5TN-08	**1DAW4**
A	675 lb.	12"	9 in./min.	17%	115VAC	1.4	19½"	1.46"	4.54"	0.39"	1.77"	0.79"	6.72"	LS28-1B5TN-12	**1DAW5**
Female Clevis Mount, Gear Driven															
B	675 lb.	12"	13 in./min.	17%	12VDC	10	19½"	1.46"	4.54"	0.39"	1.67"	1.73"	7.04"	LS35-3B4TN-12	**1DAW6**
B	675 lb.	24"	13 in./min.	17%	12VDC	10	31½"	1.46"	4.54"	0.39"	1.67"	1.73"	7.04"	LS35-3B4TN-24	**1DAW7**
C	675 lb.	12"	16 in./min.	17%	115VAC	1.6	19½"	1.46"	4.54"	0.39"	1.77"	1.73"	6.72"	LS35-1B4TN-12	**1DAW8**
C	675 lb.	24"	16 in./min.	17%	115VAC	1.6	31½"	1.46"	4.54"	0.39"	1.77"	1.73"	6.72"	LS35-1B4TN-24	**1DAW9**
Pipe and Rod End Mount, Gear Driven															
D	660 lb.	24"	9 in./min.	17%	115VAC	1.4	38¾"	1.46"	4.54"	0.512"	1.67"	1.43"	7.7"	LS48-S001	**2DGF8**

** Duty cycle is based on 75°F ambient temperature. To prevent motor overheating, the actual operating time should be equally spaced throughout any period of elapsed time.*

Find Mounting Brackets and more Vibrator Accessories on Grainger.com®.



Dayton
No. 1DYN1



2P Series
No. 6L740



SPRT Series
No. 4HR16



SPWT Series
No. 6L733

Force Rating	Voltage VAC	Phase	Amps	Speed	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
Dayton Micro with TENV Motor											
20 lb.	115VAC	1	0.8	3600 vpm	76	5¾"	3½"	3"	132 lb.	1DYN5	**1DYN5**
64 lb.	115VAC	1	0.8	3600 vpm	76	5¾"	4⅜"	3"	704 lb.	1DYN6	**1DYN6**
143 lb.	115VAC	1	0.5	3600 vpm	60	6⅜"	4 5⁄16"	3⅛"	1433 lb.	23Y181	**23Y181**
Dayton with TENV Motor											
157 lb.	115VAC	1	1.03	3600 vpm	76	8¼"	5⅛"	5⅜"	1300 lb.	1DYN1	**1DYN1**
	230/460VAC	3	0.36/0.18	3600 vpm	76	8¼"	5⅛"	5⅜"	1300 lb.	1DYL3	**1DYL3**
209 lb.	115VAC	1	1.3	3600 vpm	76	8¼"	5⅛"	5⅜"	2430 lb.	1DYN2	**1DYN2**
	230/460VAC	3	0.36/0.18	3600 vpm	76	8¼"	5⅛"	5⅜"	2430 lb.	1DYL4	**1DYL4**
417 lb.	115VAC	1	2.62	3600 vpm	76	9 7⁄64"	5⅛"	6¼"	4170 lb.	1DYN3	**1DYN3**
	230/460VAC	3	0.70/0.35	3600 vpm	76	8½"	5⅛"	6¼"	4170 lb.	1DYL5	**1DYL5**
712 lb.	115VAC	1	3.43	3600 vpm	76	10"	6⅛"	7"	7120 lb.	1DYN4	**1DYN4**
	230/460VAC	3	0.90/0.45	3600 vpm	76	10"	6⅛"	7"	7120 lb.	1DYL6	**1DYL6**
1177 lb.	230/460VAC	3	1.94/0.97	3600 vpm	76	13¼"	6⅝"	8"	11,770 lb.	1DYL7	**1DYL7**
1766 lb.	230/460VAC	3	3.00/1.50	3600 vpm	76	12⅝"	9¼"	8¼"	17,640 lb.	1DYL8	**1DYL8**
2233 lb.	230/460VAC	3	3.90/1.95	3600 vpm	76	15⅝"	8¼"	8¼"	22,330 lb.	1DYL9	**1DYL9**
VIBCO 2P & 4P Series with TENV Motor											
50 to 100 lb.	115VAC	1	0.5	3600 vpm	60	7⅞"	4⅛"	5"	750 lb.	2P-75-1	**6L738**
100 to 175 lb.	115VAC	1	0.5	3600 vpm	63	8 3⁄16"	4⅛"	5"	1500 lb.	2P-100-1	**4HR27**
	460VAC	3	0.7	3600 vpm	63	8 3⁄16"	4⅛"	5"	1500 lb.	2P-100-3-460V	**4HR29**
130 to 250 lb.	115VAC	1	1.80	3600 vpm	63	10¾"	4⅞"	6¼"	3000 lb.	2P-150-1	**6L739**
	230/460VAC	3	0.6/0.3	3600 vpm	63	10¾"	4⅞"	6¼"	3000 lb.	2P-150-3	**6L740**
180 to 400 lb.	115/230VAC	1	3.0/1.5	3600 vpm	62	11½"	5¾"	6¾"	4500 lb.	2P-200-1	**6L741**
	230/460VAC	3	1.0/0.5	3600 vpm	62	11½"	5¾"	6¾"	4500 lb.	2P-200-3	**6L742**
100 to 1100 lb.	115/230VAC	1	5.0/2.5	3600 vpm	64	13½"	6½"	7½"	9000 lb.	2P-450-1	**6L743**
	230/460VAC	3	1.2/0.6	3600 vpm	64	12⅜"	6½"	7½"	9000 lb.	2P-450-3	**6L744**
100 to 1750 lb.	115/230VAC	1	8.0/4.0	3600 vpm	70	15¼"	7½"	8½"	17,000 lb.	2P-800-1	**4HR46**
	230/460VAC	3	2.0/1.0	3600 vpm	70	14⅜"	7½"	8½"	17,000 lb.	2P-800-3	**4HR47**
50 to 200 lb.	230/460VAC	3	1.0/0.5	1800 vpm	60	11½"	5¾"	6¾"	3000 lb.	4P-350-3	**4HR70**
100 to 500 lb.	115/230VAC	1	6.0/3.0	1800 vpm	63	13⅛"	6½"	7½"	7000 lb.	4P-700-1	**4HR77**
	230/460VAC	3	1.2/0.6	1800 vpm	63	13⅛"	6½"	7½"	7000 lb.	4P-700-3	**6L745**
250 to 800 lb.	230/460VAC	3	1.2/0.6	1800 vpm	63	15½"	6½"	7⅝"	10,000 lb.	4P-1000-3	**4HR60**
VIBCO SPR Small-Impact Line with Open Motor											
20 lb.	115VAC	1	0.4	1600 vpm	60	5"	5"	3½"	150 lb.	SPR-20	**4HR12**
	115VAC	1	0.7/3.2	3200 vpm	60	5"	5"	3½"	200 lb.	SPR-21	**6L727**
VIBCO SPR Small-Impact Line with TEFC Motor											
25 lb.	115VAC	1	1.12	1600 vpm	60	7"	6"	4¼"	250 lb.	SPR-40	**6L728**
60 lb.	115VAC	1	1.27/0.64	3200 vpm	60	7"	6"	4¼"	600 lb.	SPR-60	**6L729**
	115VAC	1	1.27/0.64	3200 vpm	60	7"	6"	4¼"	600 lb.	SPR-60HD	**4HR13**
80 lb.	115VAC	1	1.36/0.64	3200 vpm	60	7"	6"	4¼"	800 lb.	SPR-80	**6L730**
	115VAC	1	1.36/0.64	3200 vpm	60	7"	6"	4¼"	800 lb.	SPR-80HD	**4HR14**
VIBCO SPRT Small-Impact Line with TENV Motor											
20 lb.	115VAC	1	0.6/0.24	3200 vpm	60	5"	5"	3½"	200 lb.	SPRT-21	**4HR15**
60 lb.	115VAC	1	0.6/0.24	3200 vpm	60	5½"	6"	4¼"	600 lb.	SPRT-60	**6L731**
	115VAC	1	0.6/0.24	3200 vpm	60	5½"	6"	4¼"	600 lb.	SPRT-60HD	**4HR16**
80 lb.	115VAC	1	0.6/0.24	3200 vpm	60	5½"	6"	4¼"	800 lb.	SPRT-80	**6L732**
	115VAC	1	0.6/0.24	3200 vpm	60	5½"	6"	4¼"	800 lb.	SPRT-80HD	**4HR17**
VIBCO SPWT Small-Impact Line with Watertight, TENV Motor											
20 lb.	115VAC	1	0.7/0.32	3200 vpm	60	5⅜"	5½"	6½"	200 lb.	SPWT-21	**4HR18**
60 lb.	115VAC	1	0.7/0.32	3200 vpm	60	5⅜"	5½"	6½"	600 lb.	SPWT-60	**6L733**
80 lb.	115VAC	1	0.7/0.32	3200 vpm	60	5⅜"	5½"	6½"	800 lb.	SPWT-80	**4HR19**

Electric Vibrators

Dayton®—Quiet-operating units have a pressurized aluminum housing and feature prelubricated bearings; oversize vacuum-impregnated windings that withstand vibration and high centrifugal force; and steel end caps. Use in bins, chutes, hoppers, screens, feeders, compaction tables, and concrete pumping. CE Certified.

Dayton Micro models are compact for use in small spaces.

- **Force adjustable with eccentric weights (except No. 1DYN5 is not adjustable)**
- **Continuous duty at 100% output force**

VIBCO® 2P and 4P Series—High-heat-resistant winding and oversize bearings help improve safety and extend service life. Terminal box offers easy connection and change of voltage. Meet ASTM and ASME standards. CE Certified.

2P models are designed for use on bins containing fine to granular materials, to pack coarse materials, and to consolidate concrete.

4P models are designed for bins containing lumpy or sticky materials, to pack light fluffy materials, and for typical screen vibrator uses.

- **Adjustable eccentrics for easy change of force**
- **Continuous duty motor**
- **Oversize electric motor for higher safety factor (watts/lb. impact)**

VIBCO Small-Impact Line—Designed to activate small hoppers, screens, chutes, tables and filling machines where a small shake is needed. Compact, noiseless vibrators help provide controlled flow of all materials, including fine powders, flakes, pills, bottle caps, and jars. Meet ASTM and ASME standards.

Heavy-duty Nos. 4HR13, 4HR14, 4HR16, and 4HR17 have oversize bearing, and the end bell is cast iron for extra-long life.

- **Speed and force can be adjusted with rheostats or speed adjusters**
- **Nos. 4HR18, 4HR19, and 6L733 have a continuous-duty CE Certified motor with convenient 115V plugin**



No. 6L736

Electric Vibrators with Adjustable Speed and Force

- **Continuous duty 950 to 2500 vpm**
- **Intermittent duty 2500 to 4000 vpm**
- **1 phase**

Heavy-duty vibrators' easy speed/impact dial control helps keep even hard-to-move materials in motion. The 115V plug fits standard outlets; with the TENV housing, these vibrators are great for outdoor and indoor use.

Force Rating	Amps	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
100 lb.	1.3	68	6¾"	6"	4¼"	1000 lb.	SCR-100	**6L734**
200 lb.	2.60	70	8 1⁄16"	4⅞"	4⅛"	2000 lb.	SCR-200	**6L735**
500 lb.	3.5	70	13 3⁄16"	5¾"	6¾"	5000 lb.	SCR-500	**6L736**
1000 lb.	6.50	72	14¼"	6½"	7½"	10,000 lb.	SCR-1000	**6L737**

12VDC Vibrators

Dayton™ VIBCO VIBRATORS

Battery-operated units are great for mobile applications. They are totally enclosed, watertight, and weather-resistant for use on farm equipment, heavy dump trucks, tailgate spreaders and salters, concrete pumps, and screens. Also for cleaning and to aid the flow of material from bins and chutes. Big Bertha™ standard dump truck vibrator No. 6L765 comes with a wiring and mounting kit.



No. 1DYN7



No. 6L765

Force Rating	Amps	Speed	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.	
Dayton® Continuous Duty										
110 lb.	6.60	3000 vpm	76	8¼"	5⅛"	5⅜"	1100 lb.	1DYN7	**1DYN7**	
437 lb.	13.30	3000 vpm	76	8⅝"	6½"	5½"	4370 lb.	1DYN8	**1DYN8**	
VIBCO® DC Series Continuous Duty										
100 lb.	12/6	4000 vpm	72	6¾"	6"	4 1⁄16"	1000 lb.	DC-100	**4HP57**	
300 lb.	14/7	4000 vpm	73	8⅜"	4 1⁄16"	4⅝"	2000 lb.	DC-200	**6L769**	
350 lb.	16/8	4000 vpm	74	9"	4 1⁄16"	5 1⁄16"	3000 lb.	DC-300	**4HP59**	
400 lb.	22/11	7000 vpm	75	8¼"	4⅞"	4 3⁄16"	4000 lb.	DC-450T	**6L768**	
VIBCO® DC Series Intermittent Duty										
700 lb.	25/13	6000 vpm	75	7¾"	5⅝"	5 9⁄16"	7000 lb.	DC-700	**4HP60**	*
1000 lb.	32/16	5000 vpm	82	11⅛"	5⅝"	6¼"	10,000 lb.	DC-1600	**6L766**	*
3500 lb.	105/75	4000 vpm	70	11½"	10⅛"	9 1⁄16"	35,000 lb.	DC-3500	**6L765**	†

**** Duty based on 30 min./hr. † Duty based on 15 sec./min.***



No. 488H55

wyco

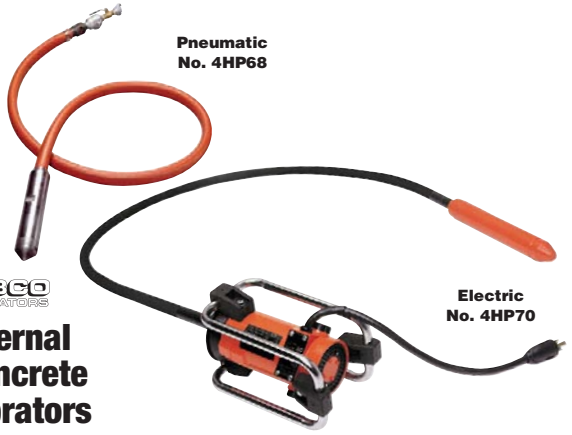
Internal Concrete Vibrators

- 115VAC, 15A, 3 HP
- UL Listed

Motors can drive any head and shaft combination, for a convenient, consolidated solution. Square-head technology provides consistent, outstanding finishes with easy-to-use operation. Rugged, highly durable construction.

Force Rating	Speed	Head Size	Shaft Length	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Electric Vibrators						
100 to 300 lb.	10,500 vpm	1"	7 ft.	7	W995G1T-100-7	**488H55**
			10 ft.		W995G1T-100-10	**488H56**
			14 ft.		W995G1T-100-14	**488H57**
100 to 1100 lb.		1⅜"	7 ft.	12	W995G1T-138-7	**488H58**
			10 ft.		W995G1T-138-10	**488H59**
			14 ft.		W995G1T-138-14	**488H60**
		1¾"	7 ft.	16	W995G1T-175-7	**488H61**
			10 ft.		W995G1T-175-10	**488H62**
			14 ft.		W995G1T-175-14	**488H63**
1150 to 2500 lb.		2"	7 ft.	20	W995G1T-200-7	**488H64**
			10 ft.		W995G1T-200-10	**488H65**
			14 ft.		W995G1T-200-14	**488H66**

Description	Mfr. Model	Item No.
Internal Concrete Vibrator Motor		
Square Heads and Flexible Shafts Sold Separately	W995G1T	**488H67**
Square Vibrator Heads		
1" Sq.	W877-526	**20CL38**
1⅜" Sq.	W878-533	**20CL39**
1¾" Sq.	W878-540	**20CL40**
2" Sq.	W878-563	**20CL41**
Vibrator Flexible Shafts For Use With 1" Square Heads		
7 ft.	W988-907	**20CL42**
10 ft.	W988-910	**20CL43**
14 ft.	W988-914	**20CL44**
Vibrator Flexible Shafts For Use With 1⅜" to 2" Square Heads		
7 ft.	W989-507	**20CL45**
10 ft.	W989-510	**20CL46**
14 ft.	W989-514	**20CL47**



Pneumatic No. 4HP68

Electric No. 4HP70

VIBCO VIBRATORS

Internal Concrete Vibrators

Pneumatic—Low-maintenance vibrators offer high force performance with low air consumption and only 1 moving part. Each includes 10-ft. hose.

Electric—Portable, lightweight, and easy-to-carry machines come with a shoulder pack for extra convenience.

- 11,000 vpm
- 115VAC plug-in with waterproof switch
- UL Listed

Force Rating	CFM @ 80 psi	Speed @ 80 psi	Head Size (Dia. x Length)	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Pneumatic						
450 lb.	21.5	18,000 VPM	1⅜" x 10¾"	20	KA-1-3/8	**4HP67**
800 lb.	26	17,000 VPM	1¾" x 11½"	35	KA-1-3/4	**4HP66**
2100 lb.	36	16,000 VPM	2½" x 13"	40	KA-2-1/2	**4HP68**
3200 lb.	40	16,000 VPM	3" x 15"	42	KA-3	**4HP69**

Force Rating	Head Size (Dia. x Length)	Shaft Length	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Electric 1½ HP, 15 AMP					
430 lb.	1¼" x 14"	7 ft.	8	JVS7-1-1/4	**4HR11**
		10 ft.		JVS10-1-1/4	**4HP96**
760 lb.	1½" x 14"	7 ft.	12	JVS7-1-1/2	**4HR10**
		10 ft.		JVS10-1-1/2	**4HP95**
Electric 2½ HP, 17 AMP					
760 lb.	1½" x 14"	10 ft.	12	ACE10-1-1/2	**4HP70**
1100 lb.	1¾" x 14"	7 ft.	24	ACE7-1-3/4	**4HP91**
		10 ft.		ACE10-1-3/4	**4HP71**

Fluidization Nozzles and Vibrating Bin Aerators

Dayton™

Fluidization Nozzles—Emit a continuous low-pressure air flow to keep dry powders and granular products moving efficiently through bins or silos.

Bin Aerators—Devices combine product aeration with an additional slight vibration on the silo wall to aid flow of fine powdery materials inside silos or bins. Will not damage silos. No. 24A968 stainless steel construction is for use in more demanding applications.

- FDA 177-2600 Approved



No. 24A965



No. 24A967

Air Consumption	Material	Inlet Port	Overall Dim. L	W	H	Item No.
Low Pressure Fluidization Nozzles						
0.03 cfm @ 2.9 PSI	Polymer	½"	1 9⁄16	1 9⁄16	2¾	**24A965**
1.1 cfm @ 14.5 PSI	Polymer	⅜"	2⅝	2⅝	1⅞	**24A966**
Vibrating Bin Aerators						
8.82 cfm @ 87 psi	Aluminum	⅜"	4⅛	4⅛	2¾	**24A967**
8.82 cfm @ 87 psi	Stainless Steel	⅜"	4⅛	4⅛	2¾	**24A968**

Find Mounting Brackets and more Vibrator Accessories on Grainger.com®.

VIBCO VIBRATORS

Hydraulic Vibrators

- Adjustable speed

Unaffected by dirty, muddy, or wet locations, hydraulic vibrators offer a low-cost solution for OEM applications. They produce high-frequency vibration with low noise levels and can be mounted in any position.



No. 4HT14

Force Rating @ 1000 psi	GPM @ 1000 psi	Speed @ 1000 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet/Outlet Port NPT	Mfr. Model	Item No.
488 lb.	6.5	7400 VPM	5¼"	3¼"	4⅜"	3320 lb.	⅜"	B-190	**4HT14**
534 lb.	6.5	5800 VPM	7"	3⅜"	5⅜"	3970 lb.	½"	B-250	**4HT15**
617 lb.	7.0	5300 VPM	6⅞"	3⅝"	5⅞"	4450 lb.	½"	B-320	**4HT16**

KeepStock®
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**



No. 6L764

VIBCO VIBRATORS

Pneumatic Railroad Carshakers

- Max. 100 psi
- 1" NPT inlet port

Heavy-duty rotary vibrators can move even the most stubborn materials, with 30% less air consumption than comparable piston vibrators. Lightweight, portable, and easy to handle, they fit all standard wedge brackets on railroad cars. Virtually noiseless operation.

No. 6L764 is designed for unloading grain, cement, and similar materials. It includes an 18" flex hose with muffler and quick-disconnect fittings.

No. 4HV43 handles materials with moisture content as well as salts, clay-lime lumps, and like materials.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Mfr. Model	Item No.
7000 lb.	48	7200 VPM	78	8⅝"	8⅝"	9¾"	CCW-5000	**6L764**
7200 lb.	58	8800 VPM	85	8⅝"	8⅝"	9⅞"	SVRWS-6500	**4HV43**



No. 1DYP6

Dayton

Silent Pneumatic Turbine Vibrators

Turbine has integrated flyweights that rotate on 2 oversize ball bearings. Units provide high-frequency, controllable speed, and low-amplitude, gentle vibration. Aluminum housing. For use with applicators, silos, hoppers, piping, and chutes.

Force Rating	Speed @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Item No.
581 lb.	20,000 VPM	10.1	21,000 VPM	64	4½"	1⅝"	2½"	5810 lb.	¼" NPT	¼" BSPP	Included	**1DYP6**
659 lb.	28,500 VPM	10.1	31,000 VPM	61	4½"	1⅝"	2½"	6590 lb.	¼" NPT	¼" BSPP	Included	**1DYP5**
1157 lb.	19,000 VPM	16.0	23,000 VPM	66	5"	2¼"	3⅛"	11,570 lb.	¼" NPT	¼" BSPP	Included	**1DYP7**
1718 lb.	12,500 VPM	26.5	14,500 VPM	67	6¼"	2⅞"	4"	17,180 lb.	⅜" NPT	⅜" BSPP	Included	**1DYP9**



No. 18K887

CLEVELAND VIBRATOR COMPANY

Silent Pneumatic Turbine Vibrators

Acetal plastic and stainless steel body construction. Great for use in cleanroom and other sterile environments. Have very low air consumption to force ratio. Grade 5 mounting, fasteners included. No lubrication required.

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
11 lb.	0.61	19,250 VPM	74	0.81	20,000 VPM	78	1¼"	23/32"	7/8"	100 lb.	#10-32 UNF	#10-32 UNF	Included	CVT-P-1	**18K887**
25 lb.	1.1	20,500 VPM	64	1.4	20,900 VPM	85	1½"	31/32"	1 9/32"	200 lb.	#10-32 UNF	#10-32 UNF	Included	CVT-P-10	**18K888**
47 lb.	2.2	10,580 VPM	79	2.8	11,300 VPM	90	2¾"	1¼"	1¾"	300 lb.	⅛" NPT	⅛" NPT	Included	CVT-P-30	**18K889**
147 lb.	2.8	6280 VPM	74.5	3.6	6560 VPM	76	4⅛"	2 1/16"	2 11/16"	2000 lb.	¼" NPT	¼" NPT	Included	CVT-P-60	**18K890**

Find Mounting Brackets and more Vibrator Accessories on Grainger.com®.

VIBCO VIBRATORS

Silent Pneumatic Turbine Vibrators

Vibrators make no more noise than an electric motor. Maintenance-free, no lubrication required. Use 30% less air than comparable pneumatic vibrators and outlast ball and piston vibrators 3 to 1.

VS Series—For rough applications or where exhausted air will not affect production. Simple, compact design. CE and ATEX Certified.

BVS Series—Threaded exhaust for closed-air environments and other applications where exhausted air must be remotely discharged. CE and ATEX Certified.

BBS Series—For continuous duty in small applications such as parts feeders, tracks, and foundry matchplates. Versatile 1-bolt mount. CE and ATEX Certified.

CCF/CCL Series—For heavy-duty applications on large bins, hoppers, chutes, packing tables, screens, and concrete forms.

GIO Series—Can be used with all types of bins that contain fine to granular materials, or for packing coarse materials and unjamming parts in conveyor lines, chutes, and pipes. Corrosion-resistant housing has excellent resistance to solvents. Single-bolt mount for maximum flexibility.

MLT Series—Prelubricated for continuous duty and maintenance-free operation in sanitary applications or where harsh chemicals are present. Threaded exhaust ports seal the system to help you maintain a clean environment. MLTSS HA model vibrator No. 30FW99 features high amplitude, and is better suited for lumpy or sticky applications. MLTSS HT model vibrator No. 30FX02 and MLT HT vibrator No. 30FW95 are suited for higher temperature applications.

MHI Series—Same as MLT Series but designed for intermittent duty, to produce high frequency and maximum forces. MLI HT model vibrator No. 30FW88 designed for higher temperature applications. Washdown-safe.













Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	Overall Dim. W	Overall Dim. H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
VS Series, Cast Iron Housing															
20 lb.	2	12,000 VPM	66	—	—	—	3 7/8"	1 7/8"	2"	200 lb.	1/8" NPT	—	Included	VS-100	**4HV35**
75 lb.	2	8000 VPM	—	2	10,500 VPM	67	4 7/8"	2"	2 5/16"	750 lb.	1/8" NPT	—	Included	VS-130	**6L746**
160 lb.	2.3	10,000 VPM	—	2.5	12,000 VPM	70	5 1/8"	2 7/8"	3"	1600 lb.	1/4" NPT	—	Included	VS-160	**4HV36**
270 lb.	3	4200 VPM	—	3.5	12,000 VPM	70	5 7/16"	3 1/4"	3 1/16"	5000 lb.	1/4" NPT	—	Included	VS-190	**6L747**
500 lb.	3	5500 VPM	—	3.5	12,000 VPM	70	5 1/2"	3 5/8"	3 11/16"	5000 lb.	1/4" NPT	—	Included	VS-250	**6L748**
600 lb.	4.5	5200 VPM	—	5.5	6800 VPM	69	5 1/2"	4"	4 3/4"	7000 lb.	3/8" NPT	—	Included	VS-320	**6L749**
725 lb.	8	4600 VPM	—	10	5200 VPM	72	6 7/8"	4 3/4"	4 7/8"	7250 lb.	3/8" NPT	—	Included	VS-380	**6L750**
900 lb.	18	4000 VPM	—	21	4500 VPM	77	6 15/16"	4 3/4"	5 3/8"	9000 lb.	1/2" NPT	—	Included	VS-510	**6L751**
1000 lb.	18	4000 VPM	—	21	4500 VPM	77	7 3/8"	4 13/16"	8"	10,000 lb.	1/2" NPT	—	Included	VSP-510	**4HV37** *
BVS Series, Cast Iron Housing															
20 lb.	2	12,000 VPM	66	—	—	—	3 13/16"	1 5/8"	2 1/16"	200 lb.	1/8" NPT	1/8" NPT	1A325	BVS-60	**4HV01**
75 lb.	2	8000 VPM	—	2	10,500 VPM	67	4 7/8"	1 7/8"	2 5/8"	750 lb.	1/8" NPT	1/4" NPT	1A326	BVS-130	**6L752**
160 lb.	2.3	9500 VPM	—	2.5	11,000 VPM	70	5 1/2"	2 7/8"	3 5/8"	1600 lb.	1/4" NPT	3/8" NPT	1A327	BVS-160	**4HT96**
270 lb.	3	5500 VPM	—	3.5	7200 VPM	71	5 1/4"	3 1/16"	3 7/16"	2700 lb.	1/4" NPT	3/8" NPT	1A327	BVS-190	**6L753**
480 lb.	3	5200 VPM	—	3.5	7200 VPM	72	6 3/4"	3 9/16"	3 15/16"	4800 lb.	1/4" NPT	3/8" NPT	1A327	BVS-250	**6L754**
600 lb.	4.5	5500 VPM	—	5.5	6800 VPM	70	6 3/4"	4"	4 7/8"	5300 lb.	3/8" NPT	1/2" NPT	1A328	BVS-320	**6L755**
670 lb.	8	4500 VPM	—	10	5000 VPM	74	7 15/16"	4 3/4"	5 13/16"	6700 lb.	3/8" NPT	1/2" NPT	1A328	BVS-380	**6L756**
900 lb.	12	4000 VPM	—	13	4500 VPM	77	8 15/16"	4 3/4"	5 3/4"	9000 lb.	1/2" NPT	3/4" NPT	6F600	BVS-510	**6L757**
1050 lb.	21	3600 VPM	—	26	4000 VPM	83	10 3/16"	5 7/16"	7 1/4"	10,500 lb.	3/4" NPT	1" NPT	6F601	BVS-570	**6L758**
BBS Series, Aluminum Housing															
20 lb.	2	10,000 VPM	66	—	—	—	3 1/4"	1 5/8"	2"	200 lb.	1/8" NPT	1/8" NPT	1A325	BBS-100	**6L759**
75 lb.	2	12,000 VPM	—	5.5	17,000 VPM	67	3 1/16"	1 1/8"	2 1/4"	750 lb.	1/4" NPT	1/4" NPT	1A326	BBS-130	**6L760**
160 lb.	2	10,000 VPM	—	7	12,000 VPM	67	4 1/8"	2"	2 5/16"	1600 lb.	1/4" NPT	1/4" NPT	1A326	BBS-160	**6L761**
250 lb.	2	10,000 VPM	—	7	15,000 VPM	70	4 1/8"	2"	2 5/16"	2500 lb.	1/4" NPT	1/4" NPT	1A326	BBS-190	**4HT88**
CCF/CCL Series, Cast Iron Housing															
2000 lb.	30	4000 VPM	—	40	6000 VPM	78	7 1/2"	8 1/16"	7 1/8"	20,000 lb.	3/4" NPT	3/4" NPT	Included	CCF-2000	**6L762**
5000 lb.	35	4000 VPM	—	50	6000 VPM	75	10 1/4"	8 5/8"	8 7/8"	50,000 lb.	1" NPT	1" NPT	Included	CCF-5000	**6L763**
5000 lb.	35	4000 VPM	—	50	6000 VPM	75	9 3/4"	8 5/8"	8 5/8"	50,000 lb.	1" NPT	1" NPT	Included	CCL-5000	**4HV03**
GIO Series, High Density Plastic Housing															
20 lb.	3.5	12,000 VPM	66	—	—	—	3 1/4"	1 5/8"	2"	200 lb.	1/8" NPT	1/8" NPT	1A325	GIO-100	**14K260**
75 lb.	4.5	8000 VPM	67	5.5	10,500 VPM	67	3 3/4"	1 7/8"	2 1/4"	750 lb.	1/4" NPT	1/4" NPT	1A326	GIO-130	**14K261**
160 lb.	5	5500 VPM	67	7	9000 VPM	67	4 1/8"	2"	2 5/16"	1600 lb.	1/4" NPT	1/4" NPT	1A326	GIO-160	**14K262**
250 lb.	5	8500 VPM	70	7	10,000 VPM	70	4 1/8"	2"	2 5/16"	2500 lb.	1/4" NPT	1/4" NPT	1A326	GIO-190	**14K263**
MLT Series, Aluminum Housing															
20 lb.	4	12,000 VPM	68	—	—	—	3 1/2"	1 7/8"	2 1/2"	200 lb.	1/8" NPT	1/8" NPT	Optional	MLT-100	**30FW92**
75 lb.	4.5	8600 VPM	68	5.5	10,500 VPM	68	3 1/2"	1 7/8"	2 1/2"	750 lb.	1/8" NPT	1/4" NPT	Optional	MLT-130	**30FW93**
270 lb.	7.5	5500 VPM	71	8.5	7200 VPM	71	4 1/2"	1 13/16"	3 3/16"	2700 lb.	1/4" NPT	3/8" NPT	Optional	MLT-190	**30FW94**
270 lb.	7.5	5500 VPM	71	8.5	7200 VPM	71	4 1/2"	1 13/16"	3 3/16"	2700 lb.	1/4" NPT	3/8" NPT	Optional	MLT-190HT	**30FW95**
480 lb.	8	5200 VPM	72	9	7200 VPM	72	5"	3 1/2"	3 5/8"	4800 lb.	1/4" NPT	3/8" NPT	Optional	MLT-250	**30FW96**
600 lb.	9	5500 VPM	70	10	6800 VPM	70	6 3/8"	4"	4 1/4"	5000 lb.	3/8" NPT	1/2" NPT	Optional	MLT-320	**30FW97**
MLT Series, 303 Stainless Steel Housing															
75 lb.	4.5	8600 VPM	68	5.5	10,500 VPM	68	3 1/2"	1 7/8"	2 9/16"	750 lb.	1/8" NPT	1/4" NPT	Optional	MLTSS-130	**30FW98**
75 lb.	4.5	8600 VPM	68	5.5	10,500 VPM	68	3 1/2"	1 7/8"	2 9/16"	750 lb.	1/8" NPT	1/4" NPT	Optional	MLTSS-130HA	**30FW99**
270 lb.	7.5	5500 VPM	71	8.5	7200 VPM	71	5 1/8"	3 3/8"	3 3/16"	2700 lb.	1/4" NPT	3/8" NPT	Optional	MLTSS-190	**30FX01**
270 lb.	7.5	5500 VPM	71	8.5	7200 VPM	71	5 1/8"	3 3/8"	3 3/16"	2700 lb.	1/4" NPT	3/8" NPT	Optional	MLTSS-190HT	**30FX02**
600 lb.	9	5500 VPM	70	10	6800 VPM	70	6"	4"	3 3/16"	6000 lb.	3/8" NPT	1/2" NPT	Optional	MLTSS-320	**30FX03**
MLT Series, 316L Stainless Steel Housing															
600 lb.	9	5500 VPM	70	10	6800 VPM	70	6"	4"	3 3/16"	6000 lb.	3/8" NPT	1/2" NPT	Optional	MLTSS-320-316L	**30FX04**
MHI Series, Aluminum Housing															
80 lb.	4	24,000 VPM	68	—	—	—	3 1/2"	1 7/8"	2 1/2"	—	1/8" NPT	1/8" NPT	Optional	MHI-100	**30FW82**
80 lb.	4	24,000 VPM	68	—	—	—	3 1/2"	1 7/8"	2 1/2"	—	1/8" NPT	1/8" NPT	Optional	MHI-100S	**30FW83** †
300 lb.	4.5	17,200 VPM	68	5.5	21,000 VPM	68	3 1/2"	1 7/8"	2 5/8"	—	1/8" NPT	1/4" NPT	Optional	MHI-130	**30FW84**
575 lb.	7.5	8000 VPM	71	8.5	10,500 VPM	71	4 1/2"	3 3/8"	3 3/16"	—	1/4" NPT	3/8" NPT	Optional	MHI-190	**30FW85**
965 lb.	8	7400 VPM	72	9	10,200 VPM	72	5"	3 1/2"	3 3/8"	—	1/4" NPT	3/8" NPT	Optional	MHI-250	**30FW86**
1300 lb.	9	7200 VPM	70	10	10,000 VPM	70	6"	4"	4 1/4"	—	3/8" NPT	1/2" NPT	Optional	MHI-320	**30FW87**
1300 lb.	9	7200 VPM	70	10	10,000 VPM	70	6 3/8"	4"	4 1/4"	—	3/8" NPT	1/2" NPT	Optional	MHI-320HT	**30FW88**
MHI Series, 303 Stainless Steel Housing															
300 lb.	4.5	17,200 VPM	68	5.5	21,000 VPM	68	3 1/2"	1 7/8"	2 3/8"	—	1/8" NPT	1/4" NPT	Optional	MHISS-130	**30FW89**
575 lb.	7.5	8000 VPM	71	8.5	10,500 VPM	71	4 1/2"	3 3/8"	3 1/16"	—	1/4" NPT	3/8" NPT	Optional	MHISS-190	**30FW90**
1300 lb.	9	7200 VPM	70	10	10,000 VPM	70	6"	4"	4 9/16"	—	3/8" NPT	1/2" NPT	Optional	MHISS-320	**30FW91**

**** For portable mounting; requires Bracket No. 4HW67, sold separately at Grainger.com®. † Stainless steel turbine wheel.***

Find Mounting Brackets and more Vibrator Accessories on Grainger.com®.



Dayton®
No. 1DYN9



VIBCO® V Series
No. 4HV27



VIBCO® BV Series
No. 4HT93



VIBCO® BB Series
No. 4HT84

Pneumatic Ball Vibrators

DAYTON®

Suitable for continuous operation in harsh outdoor conditions with small- to medium-size hoppers, bins, chutes, and pipes. Anodized aluminum housing. Maintenance-free when used with filtered/lubricated air. CE Certified.

VIBCO®

Simple ball design is built for rough use and continuous operation on a wide variety of hoppers, bins, and chutes. Clean air and lubrication are recommended for longer life. Threaded exhaust ports.

V and BV Series—V series units are built to fit in minimal space locations. BV series vibrators are designed with industry-standard bolt pattern for easy interchange.

BB Series—Built for small to medium amounts of vibration on laboratory equipment, small hoppers, parts feeders, chutes, and match plates.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
242 lb.	9.9	19,500 VPM	76	4½"	2"	2½"	2420 lb.	¼" NPT	¼" BSPP	Included	1DYN9	**1DYN9**
378 lb.	12.0	16,500 VPM	76	5"	2⅜"	3⅛"	3780 lb.	¼" NPT	¼" BSPP	Included	1DYP1	**1DYP1**
451 lb.	15.0	14,000 VPM	80	5"	2⅜"	3⅛"	4510 lb.	¼" NPT	¼" BSPP	Included	1DYP2	**1DYP2**
706 lb.	20.1	12,500 VPM	80	6¼"	3⅛""	4"	7060 lb.	⅜" NPT	⅜" BSPP	Included	1DYP3	**1DYP3**
891 lb.	23.8	10,000 VPM	86	6¼"	3⅛"	4"	8910 lb.	⅜" NPT	⅜" BSPP	Included	1DYP4	**1DYP4**

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
VIBCO												
V Series												
55 lb.	6	24,000 VPM	75	3⅞"	1¹¹⁄₁₆"	2"	550 lb.	⅛" NPT	⅛" NPT	Included	V-100	**4HV27**
80 lb.	7.5	19,000 VPM	72	4⅞"	1¹³⁄₁₆"	2⅝"	800 lb.	⅛" NPT	⅛" NPT	Included	V-130	**4HV28**
260 lb.	10	14,000 VPM	73	5¹⁄₁₆"	2⅜"	3⅛"	2600 lb.	¼" NPT	¼" NPT	1A326	V-190	**4HV29**
380 lb.	11	10,500 VPM	72	5⁹⁄₁₆"	2¹⁄₁₆"	3½"	3800 lb.	¼" NPT	¼" NPT	1A326	V-250	**4HV30**
600 lb.	15	6200 VPM	78	6⅞"	2¹³⁄₁₆"	4⅛"	6000 lb.	⅜" NPT	⅜" NPT	1A327	V-380	**4HV32**
650 lb.	14	8900 VPM	78	5⁹⁄₁₆"	2¾"	4⅞"	6500 lb.	⅜" NPT	⅜" NPT	1A327	V-320	**4HV31**
BV Series												
55 lb.	6	24,000 VPM	74	3⅞"	1¹¹⁄₁₆"	2½"	550 lb.	⅛" NPT	⅛" NPT	1A325	BV-60	**4HT95**
80 lb.	7.5	19,000 VPM	76	4⅞"	1¹³⁄₁₆"	2¾"	800 lb.	⅛" NPT	¼" NPT	1A326	BV-130	**4HT90**
260 lb.	10	14,000 VPM	77	5½"	2¼"	3⁹⁄₁₆"	2600 lb.	¼" NPT	¼" NPT	1A326	BV-190	**4HT91**
380 lb.	11	10,500 VPM	79	6¾"	2¹⁄₁₆"	3¹³⁄₁₆"	3800 lb.	¼" NPT	¼" NPT	1A326	BV-250	**4HT92**
480 lb.	14	7500 VPM	80	6¹¹⁄₁₆"	2¾"	4⅞"	4800 lb.	⅜" NPT	⅜" NPT	1A327	BV-320	**4HT93**
600 lb.	15	6200 VPM	82	7⅛"	2¹³⁄₁₆"	5¾"	6000 lb.	⅜" NPT	⅜" NPT	1A327	BV-380	**4HT94**
BB Series												
55 lb.	6	24,000 VPM	75	3¼"	1⅜"	2"	550 lb.	⅛" NPT	⅛" NPT	1A325	BB-100	**4HT84**
80 lb.	7.5	19,000 VPM	72	3¾"	1¹³⁄₁₆"	2¼"	800 lb.	¼" NPT	¼" NPT	1A326	BB-130	**4HT85**
140 lb.	8	15,000 VPM	76	4⅛"	2"	2⅜"	1400 lb.	¼" NPT	¼" NPT	1A326	BB-160	**4HT86**
250 lb.	11	15,500 VPM	77	4⅛"	2"	2⁹⁄₁₆"	2500 lb.	¼" NPT	¼" NPT	1A326	BB-190	**4HT87**



Dayton®
No. 1DYR1



VIBCO® 10 Series
No. 4HT24



VIBCO® 50 Series
No. 4HT46



VIBCO® 55 Series
No. 4HT74



Cleveland
No. 18K850

Pneumatic Piston Vibrators

DAYTON®

Cast-iron vibrators are maintenance-free when used with filtered/lubricated air. Start in every mounting orientation to keep material flowing from bins, hoppers, chutes, and pipes. For sticky, coarse, or high-moisture materials. Nos. 1DYR1 and 1DYR2 are CE Certified.

VIBCO®

High-impact and efficient energy transfer ensure a smooth flow of material through bins, chutes, and weigh batchers. Can be used in any mounting orientation. Lubrication required. For industry, mining, chemical plants, plastics, manufacturing, foundries, and paper plants. CE Certified.

10 Series—Basic vibrators for foundry match-plate applications feature all-steel construction with end-mounted single attaching head.

50 Series—All-steel construction withstands abuse and handles tough flow applications including sticky, high-moisture, and coarse materials. Hardened ground piston for long life. No. 4HT60 long-stroke, low-frequency version is great for material packing applications.

55 Series—Low-cost, 1-pc. cast-iron housing, and only 3 parts, total.

CLEVELAND

Dual-diameter piston allows units to be mounted at any angle without use of springs. Excellent for automatic parts track vibration, packaging/filling machine, and small bin and hopper applications. Include mounting fasteners and push-fit hose connections for quick setup.

All models have a 304 stainless steel housing. Nos. 18K850 and 18K852 have mild steel end caps; for use in manufacturing and packaging industries. No. 18K851 has 304 stainless steel end caps; well-suited for chemical and pharmaceutical industries.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
19.3 lb.	2.8	2340 VPM	87	2"	2"	4½"	193 lb.	⅛" NPT	⅛" BSPP	1A325	23Y178	**23Y178**
33.9 lb.	3.7	2220 VPM	90	2⅜"	2⅜"	4½"	339 lb.	¼" NPT	¼" BSPP	1A326	23Y179	**23Y179**
397 lb.	7.1	3500 VPM	91	5¾"	3⅝"	3⅝"	3970 lb.	¼" NPT	¼" BSPP	Included	1DYR1	**1DYR1**
1323 lb.	10.6	3000 VPM	96	5¾"	3⅝"	4¾"	13,230 lb.	⅜" NPT	⅜" BSPP	Included	1DYR2	**1DYR2**
VIBCO												
10 Series												
148 lb.	4.5	14,500 VPM	90	5½"	1⅛"	1⅞"	100 lb.	⅛" NPT	⅛" NPT	1A325	10⅝	**4HT28**
182 lb.	5	13,000 VPM	91	5½"	1¼"	1¹⁵⁄₁₆"	200 lb.	⅛" NPT	⅛" NPT	1A325	10¾	**4HT27**
242 lb.	5	11,000 VPM	93	5⁹⁄₁₆"	1⅝"	1¹⁵⁄₁₆"	400 lb.	⅛" NPT	⅛" NPT	1A325	10-1	**4HT24**
325 lb.	9	7000 VPM	95	9¼"	2¼"	2¹⁵⁄₁₆"	1000 lb.	¼" NPT	¼" NPT	1A326	10-1-1/4	**4HT26**
50 Series												
242 lb.	5	11,000 VPM	90	4½"	2"	4⁹⁄₁₆"	400 lb.	⅛" NPT	⅛" NPT	1A325	50-1	**4HT46**
325 lb.	9	7000 VPM	92	6"	2½"	6½"	1000 lb.	¼" NPT	¼" NPT	1A326	50-1-1/4	**4HT51**
585 lb.	11	5200 VPM	95	7½"	3"	7¹⁵⁄₁₆"	4000 lb.	¼" NPT	¼" NPT	1A326	50-1-1/2	**4HT47**
610 lb.	15	5000 VPM	99	9"	3½"	7¹⁵⁄₁₆"	10,000 lb.	¼" NPT	¼" NPT	1A326	50-2	**4HT58**
770 lb.	31	2400 VPM	99	9"	3½"	9⁷⁄₁₆"	20,000 lb.	¼" NPT	¼" NPT	1A326	50-2L	**4HT60**
55 Series												
242 lb.	5	11,000 VPM	91	4½"	2"	3⅞"	400 lb.	¼" NPT	⁹⁄₁₆" NPT	1A326	55-1	**4HT74**
325 lb.	9	7000 VPM	94	6"	2½"	5⅜"	1000 lb.	¼" NPT	¼" NPT	1A326	55-1-1/4	**4HT77**
585 lb.	11	5200 VPM	96	9"	3½"	7¼"	4000 lb.	¼" NPT	¼" NPT	1A326	55-1-1/2	**4HT75**
610 lb.	15	5000 VPM	99	9"	3½"	7¼"	10,000 lb.	¼" NPT	¼" NPT	1A326	55-2	**4HT80**
1900 lb.	30	3800 VPM	99	10½"	5"	9⁷⁄₁₆"	30,000 lb.	⅜" NPT	⅜" NPT	1A327	55-3	**4HT82**
Cleveland												
15 lb.	2	16,000 VPM	95	2⁹⁄₁₆"	⅝"	1¼"	100 lb.	¼" OD Hose	#10-32 UNF	1EJX3	VM-25	**18K850**
15 lb.	2	16,000 VPM	95	2⁹⁄₁₆"	⅝"	1¼"	100 lb.	¼" OD Hose	#10-32 UNF	1EJX3	VM-25 SS	**18K851**
21 lb.	2.1	11,400 VPM	101	2⅛"	⅝"	1¼"	100 lb.	¼" OD Hose	#10-32 UNF	1EJX3	VM-38	**18K852**

Schneider Electric

Altistart® Soft Starters

Adjust current inrush to protect motors from mechanical shock and stress during motor start-ups and help reduce utility costs. Set both initial voltage and ramp-up timing. Ambient temp.: -10° to 40°C. Suitable for fans, pumps, conveyors, compressors, saws and sanders, and mixers and agitators.


No. 6VMD5

ALTISTART 01N1 AND 01N2

All feature Power "On" and "Full Voltage" LEDs.

01N1 models have a 1- to 5-sec. soft start adjustment dial (no soft stop).

01N2 models feature 1- to 10-sec. soft start and soft stop adjustment dials. Voltage boost (kickstart) logic input. 2- or 3-wire compatible. For use with TeSys U-line (no separate control voltage required), GV2, GV3, or other motor starters.


No. 6VLZ3

ALTISTART 22 AND 48

Rated for 6 standard starts per hour. An RJ45 Modbus port enables use with a Modbus network connection, remote keypad, or SoMove PC software.

22 Series units feature 1 PTC probe analog input, 3 logic inputs, and 2 relay outputs.

48 Series units feature 1 PTC probe analog input, 4 logic inputs, 1 analog output, 2 logic outputs, and 3 relay outputs. Nominal motor current can be adjusted from 0.4- to 1.3-times the starter nominal current.


No. 6VMA2

Output Current	Input/Output Voltage	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	H	W	D	Item No.
Altistart® 01N1, 1 or 3 Phase									
3A	120 to 480VAC	—	¼	¼	1 to 1½	3.94"	0.90"	3.95"	**6VMD1**
6A	120 to 480VAC	¼	½	½	2 to 3	3.94"	0.90"	3.95"	**6VMD2**
9A	120 to 480VAC	⅓	1	2	5	4.88"	1.77"	4.44"	**6VMD3**
12A	120 to 480VAC	½	2	3	7½	4.88"	1.77"	4.44"	**6VMD4**
Altistart® 01N2, 3 Phase									
6A	208 to 240VAC	—	—	1 to 1½	—	4.88"	1.77"	4.45"	**13E165**
6A	480VAC	—	—	—	2 to 3	4.88"	1.77"	4.45"	**6VMD5**
9A	208 to 240VAC	—	—	2	—	4.88"	1.77"	4.45"	**13E166**
9A	480VAC	—	—	—	5	4.88"	1.77"	4.45"	**6VMD6**
12A	208 to 240VAC	—	—	3	—	4.88"	1.77"	4.45"	**13E167**
12A	480VAC	—	—	—	7½	4.88"	1.77"	4.45"	**6VMD7**
22A	208 to 240VAC	—	—	5 to 7½	—	6.06"	1.77"	4.45"	**6VMD8**
22A	480VAC	—	—	—	10 to 15	6.06"	1.77"	4.45"	**6VMD9**
32A	208 to 240VAC	—	—	10	—	6.06"	1.77"	4.45"	**6VME1**
32A	480VAC	—	—	—	20	6.06"	1.77"	4.45"	**6VME2**

Output Current	Control Voltage	Input/Output Voltage	HP @ 3-Phase 208V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	H	W	D	Item No.
Altistart® 22, 3 Phase									
17A	120VAC	208 to 600VAC	3	5	10	9.80"	5.10"	6.60"	**6VLZ6**
32A	120VAC	208 to 600VAC	7½	10	20	9.80"	5.10"	6.60"	**6VLZ7**
47A	120VAC	208 to 600VAC	—	15	30	9.80"	5.10"	6.60"	**6VLZ8**
63A	120VAC	208 to 600VAC	15	20	40	10.90"	5.70"	8.10"	**6VLZ9**
75A	120VAC	208 to 600VAC	20	25	50	10.90"	5.70"	8.10"	**6VMA0**
88A	120VAC	208 to 600VAC	25	30	60	10.90"	5.70"	8.10"	**6VMA1**
110A	120VAC	208 to 600VAC	30	40	75	13.00"	5.90"	9.00"	**6VLZ3**
140A	120VAC	208 to 600VAC	40	50	100	13.00"	5.90"	9.00"	**6VLZ4**
170A	120VAC	208 to 600VAC	50	60	125	13.00"	5.90"	9.00"	**6VLZ5**
210A	120VAC	208 to 600VAC	60	75	150	15.60"	8.10"	11.80"	**13E159**
250A	120VAC	208 to 600VAC	75	100	200	15.60"	8.10"	11.80"	**13E160**
320A	120VAC	208 to 600VAC	100	125	250	15.60"	8.10"	11.80"	**13E161**
410A	120VAC	208 to 600VAC	125	150	300	15.60"	8.10"	11.80"	**13E162**
480A	120VAC	208 to 600VAC	150	—	350	15.60"	8.10"	11.80"	**13E163**
590A	120VAC	208 to 600VAC	—	200	400	15.60"	8.10"	11.80"	**13E164**
Altistart® 22, 3 Phase, 208-600VAC Output									
Optional Remote Keypad, IP54 NEMA 12									**13E226**
Optional Remote Keypad, IP65									**13E227**
Altistart® 48, 3 Phase									
17A	120 to 240VAC	208 to 600VAC	3	5	10	10.83"	6.30"	7.48"	**6VMC3**
22A	120 to 240VAC	208 to 600VAC	5	7½	15	10.83"	6.30"	7.48"	**6VMC4**
32A	120 to 240VAC	208 to 600VAC	7½	10	20	10.83"	6.30"	7.48"	**6VMC5**
38A	120 to 240VAC	208 to 600VAC	10	—	25	10.83"	6.30"	7.48"	**6VMC6**
47A	120 to 240VAC	208 to 600VAC	—	15	30	10.83"	6.30"	7.48"	**6VMC7**
62A	120 to 240VAC	208 to 600VAC	15	20	40	11.42"	7.48"	9.25"	**6VMC8**
75A	120 to 240VAC	208 to 600VAC	20	25	50	11.42"	7.48"	9.25"	**6VMC9**
88A	120 to 240VAC	208 to 600VAC	25	30	60	11.42"	7.48"	9.25"	**6VMD0**
110A	120 to 240VAC	208 to 600VAC	30	40	75	11.42"	7.48"	9.25"	**6VMA2**
140A	120 to 240VAC	208 to 600VAC	40	50	100	13.39"	7.87"	10.43"	**6VMA3**
170A	120 to 240VAC	208 to 600VAC	50	60	125	13.39"	7.87"	10.43"	**6VMA4**
210A	120 to 240VAC	208 to 600VAC	60	75	150	14.96"	12.60"	10.43"	**6VMA5**
250A	120 to 240VAC	208 to 600VAC	75	100	200	14.96"	12.60"	10.43"	**6VMA6**
320A	120 to 240VAC	208 to 600VAC	100	125	250	14.96"	12.60"	10.43"	**6VMA7**
410A	120 to 240VAC	208 to 600VAC	125	150	300	26.38"	15.75"	11.81"	**6VMA8**
480A	120 to 240VAC	208 to 600VAC	150	—	350	26.38"	15.75"	11.81"	**6VMA9**
590A	120 to 240VAC	208 to 600VAC	—	200	400	26.38"	15.75"	11.81"	**6VMC0**
660A	120 to 240VAC	208 to 600VAC	200	250	500	26.38"	15.75"	11.81"	**6VMC1**
790A	120 to 240VAC	208 to 600VAC	250	300	600	35.04"	30.31"	12.40"	**6VMC2**

Dayton

Hybrid and Digital Adjustable Frequency Drives


No. 13E660


No. 13E661


No. 13E662


No. 13E632


No. 13E645

- Digital models operate with GFCI circuits

Provide overload protection, prevents motor burnout, and eliminates nuisance tripping. Suitable for constant torque and variable torque (HVAC) applications. Hybrid drives do not require programming and utilize an analog interface, with trimpots and settable jumpers, to make adjustments such as input voltage, min. and max. frequency, acceleration, deceleration, and motor horsepower. Digital drives contain a keypad display with LED status indicators. Simple to program; all similar functions are presented in common groups (CSP™). NEMA 4X/IP65 models are housed in a rugged die-cast aluminum enclosure with hinged covers; ideal for harsh indoor/outdoor applications that may require watertight integrity. UL Listed.

Note: For Adjustable Frequency Drive Accessories, go to Grainger.com®, and search for "Liquid Tight Fittings for NEMA-4 Controls."

Max. HP	Max. Output Amps	Enclosure	Digital Readout	H	W	D	BLACK/GRAY Item No.	WHITE FDA APPROVED Item No.
1-Phase 120/208-240VAC 50/60 Hz Input, 3-Phase 240VAC Output								
½	2.4	NEMA 1	No	6.06"	3.92"	3.65"	**13E660**	—
1	3.6	NEMA 1	No	7"	5.10"	4.15"	**13E661**	—
1	3.6	NEMA 1	Yes	7"	5.10"	4.15"	**13E662**	—
1	3.6	NEMA 4X	No	9.53"	5.51"	5.86"	**13E632**	**13E633**
1	3.6	NEMA 4X	Yes	9.53"	5.51"	5.86"	**13E644**	**13E645**
2	6.7	NEMA 4X	No	9.8"	7.55"	7.25"	**13E634**	**13E635**
2	6.7	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E646**	**13E647**
1-Phase 208-240VAC 50/60 Hz Input, 3-Phase 240VAC Output								
3	9	NEMA 4X	No	9.8"	7.55"	7.25"	**13E636**	**13E637**
3	9	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E648**	**13E649**
1 or 3-Phase 208-240VAC 50/60 Hz Input, 3-Phase 240VAC Output								
3	9	NEMA 4X	No	9.8"	7.55"	7.25"	**13E638** *	**13E639** *
3-Phase 208-240VAC 50/60 Hz Input, 3-Phase 240VAC Output								
1	3.6	NEMA 4X	Yes	9.53"	5.51"	5.86"	**13E650**	**13E651**
3	9	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E652**	**13E653**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output								
1	2	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E654**	**13E655**
3	4.6	NEMA 4X	No	9.8"	7.55"	7.25"	**13E640**	**13E641**
3	4.6	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E656**	**13E657**
5	8.3	NEMA 4X	No	9.8"	7.55"	7.25"	**13E642**	**13E643**
5	8.3	NEMA 4X	Yes	9.8"	7.55"	7.25"	**13E658**	**13E659**

** Rated 2 HP with 1-phase input.*

AC Adjustable-Frequency Drives

Dayton

No. 32J570



- IP20

Provide overload protection, prevent motor burnout, and eliminate nuisance tripping. Feature flux vector compensation with static auto-tune that provides excellent speed regulation with high-torque loads throughout the entire speed range. Local/remote key can be used to switch from process control to manual control if a process fault occurs. Electronic inrush current limit eliminates harmful inrush AC line current during power-up. Five isolated multifunction inputs with sink or source mode control logic, 1 analog input, 1 multifunction output relay, and 1 analog output. Built-in potentiometer changes motor speeds. Regeneration protection eliminates tripping due to high bus voltage caused by rapid deceleration of high inertial loads. Undervoltage and overvoltage protection shuts down the drive if the AC line input voltage goes above or below the operating range. Short circuit protection shuts down the drive if a short circuit occurs at the motor, phase-to-phase. UL Listed.

Max. HP	Max. Output Amps	H	W	D	Item No.
1-Phase 120/240VAC 50/60 Hz Input, 3-Phase 240VAC Output					
½	2.4	7.25"	3.4"	5.1"	**32J570**
1	4	7.25"	3.4"	5.1"	**32J571**
2	6.7	7.25"	3.4"	5.1"	**32J572** *
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output					
3	9	7.8"	4.4"	6.1"	**32J576**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output					
1	2	7.8"	4.4"	6.1"	**32J577**
3	5.5	7.8"	4.4"	6.1"	**32J578**
5	8.3	7.8"	4.4"	6.1"	**32J579**

** 115VAC ratings: 1½ HP (1.2kW), 5.5A.*

Adjustable-Frequency Drives, HVX Series

Designed for HVAC, pump, and fluid control applications. NEMA 12 models feature a metallic housing. Drives feature 3-phase AC input, 60/50 Hz, and 3-phase output variable speed/frequency 0 to 320 Hz. 3% AC line reactor and EMI/RFI filter standard. Standard I/O includes 0-10VDC, 4-20mA, 6 digital inputs, 2 NO/NC outputs, and 1 analog output. Frequency control (V/f) and open-loop sensorless vector control. Backlit LCD English HOA keypad/terminal/network control. Protections: overcurrent, overvoltage, undervoltage, earth fault, input phase and motor phase supervision, overtemp., and motor overload, stall, and underload. UL Listed, CSA and CE Certified.

Note: For Adjustable Frequency Drive Accessories, go to Grainger.com®, and search for "Eaton Variable Frequency Drive Accessories."



NEMA 12
No. 4LRT4

Max. HP	Max. Output Amps	H	W	D	NEMA 1 Mfr. Model	NEMA 1 Item No.	NEMA 12 Mfr. Model	NEMA 12 Item No.
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output								
1	4.8	12.9"	5"	7.5"	HVX001A1-2A1B1	**4LRL4**	HVX001A2-2A1B1	**4LRT1**
2	7.8	12.9"	5"	7.5"	HVX002A1-2A1B1	**4LRL5**	HVX002A2-2A1B1	**4LRT2**
3	11	12.9"	5"	7.5"	HVX003A1-2A1B1	**4LRL6**	HVX003A2-2A1B1	**4LRT3**
5	17.5	16.5"	5.6"	8.4"	HVX005A1-2A1B1	**4LRL7**	HVX005A2-2A1B1	**4LRT4**
7½	25	16.5"	5.6"	8.4"	HVX007A1-2A1B1	**4LRL8**	HVX007A2-2A1B1	**4LRT5**
10	31	16.5"	5.6"	8.4"	HVX010A1-2A1B1	**4LRL9**	HVX010A2-2A1B1	**4LRT6**
15	48	22"	7.6"	9.3"	HVX015A1-2A1B1	**4LRN1**	HVX015A2-2A1B1	**4LRT7**
20	61	22"	7.6"	9.3"	HVX020A1-2A1B1	**4LRN2**	HVX020A2-2A1B1	**4LRT8**
25	75	24.8"	9.3"	10.1"	HVX025A1-2A1N1	**4LRN3**	HVX025A2-2A1N1	**4LRT9**
30	88	24.8"	9.3"	10.1"	HVX030A1-2A1N1	**4LRN4**	HVX030A2-2A1N1	**4LRU1**
40	114	24.8"	9.3"	10.1"	HVX040A1-2A1N1	**4LRN5**	HVX040A2-2A1N1	**4LRU2**
50	140	30.1"	11.5"	13.5"	HVX050A1-2A1N1	**4LRN6**	HVX050A2-2A1N1	**4LRU3**
60	170	30.1"	11.5"	13.5"	HVX060A1-2A1N1	**4LRN7**	HVX060A2-2A1N1	**4LRU4**
75	205	30.1"	11.5"	13.5"	HVX075A1-2A1N1	**4LRN8**	HVX075A2-2A1N1	**4LRU5**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output								
1½	3.3	12.9"	5"	7.5"	HVXF15A1-4A1B1	**4LRN9**	HVXF15A2-4A1B1	**4LRU6**
2	4.3	12.9"	5"	7.5"	HVX002A1-4A1B1	**4LRP1**	HVX002A2-4A1B1	**4LRU7**
3	5.6	12.9"	5"	7.5"	HVX003A1-4A1B1	**4LRP2**	HVX003A2-4A1B1	**4LRU8**
5	7.6	12.9"	5"	7.5"	HVX005A1-4A1B1	**4LRP3**	HVX005A2-4A1B1	**4LRU9**
10	16	16.5"	5.6"	8.4"	HVX010A1-4A1B1	**4LRP5**	HVX010A2-4A1B1	**4LRV2**
15	23	16.5"	5.6"	8.4"	HVX015A1-4A1B1	**4LRP6**	HVX015A2-4A1B1	**4LRV3**
20	31	16.5"	5.6"	8.4"	HVX020A1-4A1B1	**4LRP7**	HVX020A2-4A1B1	**4LRV4**
25	38	22"	7.6"	9.3"	HVX025A1-4A1B1	**4LRP8**	HVX025A2-4A1B1	**4LRV5**
30	46	22"	7.6"	9.3"	HVX030A1-4A1B1	**4LRP9**	HVX030A2-4A1B1	**4LRV6**
40	61	22"	7.6"	9.3"	HVX040A1-4A1B1	**4LRR1**	HVX040A2-4A1B1	**4LRV7**
50	72	24.8"	9.3"	10.1"	HVX050A1-4A1N1	**4LRR2**	HVX050A2-4A1N1	**4LRV8**
60	87	24.8"	9.3"	10.1"	HVX060A1-4A1N1	**4LRR3**	HVX060A2-4A1N1	**4LRV9**
75	105	24.8"	9.3"	10.1"	HVX075A1-4A1N1	**4LRR4**	HVX075A2-4A1N1	**4LRW1**
100	140	30.1"	11.5"	13.5"	HVX100A1-4A1N1	**4LRR5**	HVX100A2-4A1N1	**4LRW2**
125	170	30.1"	11.5"	13.5"	HVX125A1-4A1N1	**4LRR6**	HVX125A2-4A1N1	**4LRW3**
150	205	30.1"	11.5"	13.5"	HVX150A1-4A1N1	**4LRR7**	HVX150A2-4A1N1	**4LRW4**
200	261	45.3"	18.9"	13.4"	HVX200A1-4A1N1	**4LRR8**	HVX200A2-4A1N1	**4LRW5**
250	300	45.3"	18.9"	13.4"	HVX250A1-4A1N1	**4LRR9**	HVX250A2-4A1N1	**4LRW6**
7½	12	12.9"	5"	7.5"	—	—	HVX007A2-4A1B1	**4LRV1**



No. 20RA39

Adjustable-Frequency Drives, DC1/DA1 Series

Designed for use with 3-phase inverter-duty motors and feature a sensorless flux vector to provide optimal motor performance for low-speed, high-starting torque applications. Drives feature 3-phase AC input, 60/50 Hz, and 0 to 500 Hz variable speed/frequency output. Feature selectable, LED readout. DC1 models are compact and work well in simple applications. Fast commissioning with 14 basic parameters and easy mounting and installation. DA1 models are ideal for demanding, speed-dependent jobs including lifting or tractive applications. Include integrated EMC filter and braking transistor. All are UL Listed and CE Certified.

Note: For Adjustable Frequency Drive Accessories, go to Grainger.com®, and search for "Eaton Variable Frequency Drive Accessories."

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
1-Phase 115VAC 50/60 Hz Input, 1-Phase 115VAC Output						
½	7	7.24"	3.19"	4.88"	DC1-S17D0NN-A20CE1	**20RA39**
¾	10.5	9.09"	4.21"	5.98"	DC1-S1011NB-A20CE1	**20RA40**
1-Phase 200-240VAC 50/60 Hz Input, 1-Phase 200-240VAC Output						
½	4.3	7.24"	3.19"	4.88"	DC1-S24D3NN-A20CE1	**20RA41**
1-Phase 220-240VAC 50/60 Hz Input, 1-Phase 220-240VAC Output						
1	7	7.24"	3.19"	4.88"	DC1-S27D0NN-A20CE1	**20RA42**
1½	10	9.09"	4.21"	5.98"	DC1-S2011NB-A20CE1	**20RA43**
1-Phase 120VAC 50/60 Hz Input, 3-Phase 240VAC Output						
½	2.3	7.24"	3.19"	4.88"	DC1-1D2D3NN-A20CE1	**20RA44**
1	4.3	7.24"	3.19"	4.88"	DC1-1D4D3NN-A20CE1	**20RA45**
1½	5.8	9.09"	4.21"	5.98"	DC1-1D5D8NB-A20CE1	**20RA46**
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
½	2.3	7.24"	3.19"	4.88"	DC1-322D3NN-A20CE1	**20RA47**
1	4.3	7.24"	3.19"	4.88"	DC1-324D3NN-A20CE1	**20RA48**
2	7	7.24"	3.19"	4.88"	DC1-327D0NN-A20CE1	**20RA49**
2	7	9.09"	4.21"	5.98"	DC1-327D0NB-A20CE1	**20RA50**
3	10.5	9.09"	4.21"	5.98"	DC1-32011NB-A20CE1	**20RA51**
5	18	10.75"	5.16"	6.89"	DC1-32018NB-A20CE1	**20RA52**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.2	7.24"	3.19"	4.88"	DC1-342D2NN-A20CE1	**20RA53**
2	4.1	7.24"	3.19"	4.88"	DC1-344D1NN-A20CE1	**20RA54**
2	4.1	9.09"	4.21"	5.98"	DC1-344D1NB-A20CE1	**20RA55**
3	5.8	9.09"	4.21"	5.98"	DC1-345D8NB-A20CE1	**20RA56**
5	9.5	9.09"	4.21"	5.98"	DC1-349D5NB-A20CE1	**20RA57**
7½	14	10.75"	5.16"	6.89"	DC1-34014NB-A20CE1	**20RA58**
10	18	10.75"	5.16"	6.89"	DC1-34018NB-A20CE1	**20RA59**
15	24	10.75"	5.16"	6.89"	DC1-34024NB-A20CE1	**20RA60**
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
1	4.3	9.09"	4.21"	7.32"	DA1-324D3FB-A20C	**20RA27**
2	7	9.09"	4.21"	7.32"	DA1-327D0FB-A20C	**20RA28**
3	10.5	9.09"	4.21"	7.32"	DA1-32011FB-A20C	**20RA29**
5	18	10.75"	5.16"	7.32"	DA1-32018FB-A20C	**20RA30**
7½	24	10.75"	5.16"	8.03"	DA1-32024FB-A20C	**20RA31**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.2	9.09"	4.21"	8.03"	DA1-342D2FB-A20C	**20RA32**
2	4.1	9.09"	4.21"	7.32"	DA1-344D1FB-A20C	**20RA33**
3	5.8	9.09"	4.21"	7.32"	DA1-345D8FB-A20C	**20RA34**
5	9.5	9.09"	4.21"	7.32"	DA1-349D5FB-A20C	**20RA35**
7½	14	10.75"	5.16"	8.03"	DA1-34014FB-A20C	**20RA36**
10	18	10.75"	5.16"	8.03"	DA1-34018FB-A20C	**20RA37**
15	24	10.75"	5.16"	8.03"	DA1-34024FB-A20C	**20RA38**

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
Altivar 212, 3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
1	4.6	5.63"	4.21"	5.91"	ATV212H075M3X	**6MUZ6**
2	7.5	5.63"	4.21"	5.91"	ATV212HU15M3X	**6MUZ7**
3	10.6	5.63"	4.21"	5.91"	ATV212HU22M3X	**6MUZ8**
4	13.7	7.24"	5.59"	5.91"	ATV212HU30M3X	**6MUZ9**
5	18.7	7.24"	5.59"	5.91"	ATV212HU40M3X	**6MVA0**
7½	24.2	9.13"	7.09"	6.69"	ATV212HU55M3X	**6MVA1**
10	32	9.13"	7.09"	6.69"	ATV212HU75M3X	**6MVA2**
15	46.2	12.99"	9.65"	7.48"	ATV212HD11M3X	**6MVA3**
20	61	12.99"	9.65"	7.48"	ATV212HD15M3X	**6MVA4**
25	74.8	12.99"	9.65"	7.48"	ATV212HD18M3X	**6MVA5**
30	88	16.54"	9.45"	8.43"	ATV212HD22M3X	**6MVA6**
40	117	24.8"	12.6"	11.42"	ATV212HD30M3X	**6MVA7**
Altivar 212, 3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.2	5.63"	4.21"	5.91"	ATV212H075N4	**6MVA8**
2	3.7	5.63"	4.21"	5.91"	ATV212HU15N4	**6MVA9**
3	5.1	5.63"	4.21"	5.91"	ATV212HU22N4	**6MVC0**
4	7.2	7.24"	5.59"	5.91"	ATV212HU30N4	**6MVC1**
5	9.1	7.24"	5.59"	5.91"	ATV212HU40N4	**6MVC2**
7½	12	7.24"	5.59"	5.91"	ATV212HU55N4	**6MVC3**
10	16	9.13"	7.09"	6.69"	ATV212HU75N4	**6MVC4**
15	22.5	9.13"	7.09"	6.69"	ATV212HD11N4	**6MVC5**
20	30.5	12.99"	9.65"	7.48"	ATV212HD15N4	**6MVC6**
25	37	12.99"	9.65"	7.48"	ATV212HD18N4	**6MVC7**
30	43.5	16.54"	9.45"	8.43"	ATV212HD22N4	**6MVC8**
40	58.5	16.54"	9.45"	8.43"	ATV212HD30N4	**6MVC9**
Altivar 630, 3-Phase 200 to 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
1	5.1	12.60"	5.67"	7.99"	ATV630U07M3	**53RF78**
2	8.8	12.60"	5.67"	7.99"	ATV630U15M3	**53RF80**
3	12.3	12.60"	5.67"	7.99"	ATV630U22M3	**53RF82**
4	16.8	12.60"	5.67"	7.99"	ATV630U30M3	**53RF84**
5	20.6	12.60"	5.67"	7.99"	ATV630U40M3	**53RF86**
7½	28.1	15.94"	6.81"	9.09"	ATV630U55M3	**53RF88**
10	38.1	15.94"	6.81"	9.09"	ATV630U75M3	**53RF90**
15	51.5	21.50"	8.31"	9.13"	ATV630D11M3	**53RF62**
20	70.2	26.50"	8.90"	10.67"	ATV630D15M3	**53RF64**
25	95.1	26.50"	8.90"	10.67"	ATV630D18M3	**53RF66**
30	117.6	26.50"	8.90"	10.67"	ATV630D22M3	**53RF68**
40	138.9	36.30"	11.42"	12.72"	ATV630D30M3	**53RF70**
50	184.5	36.30"	11.42"	12.72"	ATV630D37M3	**53RF72**
60	223.5	36.30"	11.42"	12.72"	ATV630D45M3	**53RF74**
Altivar 630, 3-Phase 380 to 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.4	13.78"	5.67"	7.99"	ATV630U07N4	**53RF79**
2	4.4	13.78"	5.67"	7.99"	ATV630U15N4	**53RF81**
3	6.2	13.78"	5.67"	7.99"	ATV630U22N4	**53RF83**
4	8.4	13.78"	5.67"	7.99"	ATV630U30N4	**53RF85**
5	10.8	13.78"	5.67"	7.99"	ATV630U40N4	**53RF87**
7½	14	13.78"	5.67"	7.99"	ATV630U55N4	**53RF89**
10	19.1	16.10"	6.73"	9.17"	ATV630U75N4	**53RF91**
15	25.9	16.10"	6.73"	9.17"	ATV630D11N4	**53RF63**
20	35.3	21.50"	8.31"	9.13"	ATV630D15N4	**53RF65**
25	47.6	21.50"	8.31"	9.13"	ATV630D18N4	**53RF67**
30	58.8	21.50"	8.31"	9.13"	ATV630D22N4	**53RF69**
40	69.5	26.50"	8.90"	10.67"	ATV630D30N4	**53RF71**
50	92.3	26.50"	8.90"	10.67"	ATV630D37N4	**53RF73**
60	111.8	26.50"	8.90"	10.67"	ATV630D45N4	**53RF75**
75	132	36.30"	11.42"	12.72"	ATV630D55N4	**53RF76**
100	159.5	36.30"	11.42"	12.72"	ATV630D75N4	**53RF77**
Accessories						
Graphic Term Adapter for Altivar 212, 312, 61, 71					VW3A1105	**13E222**
LCD Graphic Keypad for Altivar 212, 312, 61, 71					VW3A1101	**13E219**
LCD Keypad Remote Mounting Kit for Altivar 212, 312, 61, 71					VW3A1102	**13E220**
Remote LCD Keypad Cable for Altivar 212, 312, 61, 71, 16.4-ft.					VW3A1104R50	**13E225**
Remote LCD Keypad Cable for Altivar 212, 312, 61, 71, 3-ft.					VW3A1104R10	**13E223**
Remote LCD Keypad Cable for Altivar 212, 312, 61, 71, 9-ft.					VW3A1104R30	**13E224**
Remote Mount Kit Door for Altivar 212, 312, 61, 71					VW3A1103	**13E221**



Altivar 212


Altivar 630

Schneider Electric

AC Adjustable-Frequency Drives, Altivar® 212 and 630

- Enclosure rating: IP20

Suitable for variable-torque applications such as air-handling supply and return fans, ventilation fans, exhaust fans, cooling tower fans and pumps, hot water and chilled water pumps, domestic water supply pumping, and fountain pumps. See Grainger.com® for additional or higher HP ratings and Type 1 Conduit Entry Kits.

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
Altivar 12, 1-Phase 115VAC 50/60 Hz Input, 3-Phase 230VAC Output						
1	4.2	5.59"	4.13"	6.15"	ATV12H075F1	**5WJK2**
Altivar 12, 1-Phase 120VAC 50/60 Hz Input, 3-Phase 240VAC Output						
¼	1.4	5.63"	2.83"	4.02"	ATV12H018F1	**5WJJ5**
½	2.4	5.63"	2.83"	4.77"	ATV12H037F1	**5WJJ8**
Altivar 12, 1-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
¼	1.4	5.63"	2.83"	4.02"	ATV12H018M2	**5WJJ6**
½	2.4	5.12"	2.83"	4.77"	ATV12H037M2	**5WJJ9**
¾	3.5	5.63"	2.83"	5.17"	ATV12H055M2	**5WJK1**
1	4.2	5.63"	2.83"	5.17"	ATV12H075M2	**5WJK3**
2	7.5	5.12"	4.13"	6.15"	ATV12HU15M2	**5WJK5**
3	10	5.12"	4.13"	6.15"	ATV12HU22M2	**5WJK7**
Altivar 12, 3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
¼	1.4	5.63"	2.83"	4.02"	ATV12H018M3	**5WJJ7**
½	2.4	5.63"	2.83"	4.77"	ATV12H037M3	**5WJK0**
1	4.2	5.63"	2.83"	5.17"	ATV12H075M3	**5WJK4**
2	7.5	5.12"	4.13"	5.17"	ATV12HU15M3	**5WJK6**
3	10	5.12"	4.13"	5.17"	ATV12HU22M3	**5WJK8**
4	12.2	6.69"	5.51"	5.56"	ATV12HU30M3	**5WJK9**
5	16.7	6.69"	5.51"	5.56"	ATV12HU40M3	**5WJL0**
Altivar 320, 1 or 3-Phase 200 to 240VAC 50/60 Hz Input, 3-Phase 200 to 240VAC Output						
10	33	9.13"	5.90"	6.69"	ATV320U75M3C	**443L64**
15	54	12.99"	7.08"	7.48"	ATV320D11M3C	**443L12**
20	66	12.99"	7.08"	7.48"	ATV320D15M3C	**443L15**
Altivar 320, 1 or 3-Phase 380 to 480VAC 50/60 Hz Input, 3-Phase 380 to 480VAC Output						
1	2.3	12.80"	1.77"	9.65"	ATV320U07N4B	**443L34**
1½	3	12.80"	5.90"	9.65"	ATV320U11N4B	**443L40**
1½	3	5.62"	5.90"	5.90"	ATV320U11N4C	**443L41**
2	4.1	12.80"	1.77"	9.65"	ATV320U15N4B	**443L45**
2	4.1	5.62"	4.21"	5.90"	ATV320U15N4C	**443L46**
3	5.5	12.80"	2.36"	9.65"	ATV320U22N4B	**443L51**
3	5.5	7.24"	5.51"	5.90"	ATV320U22N4C	**443L52**
4	7.1	12.80"	5.90"	9.65"	ATV320U30N4B	**443L55**
4	7.1	7.24"	5.90"	5.90"	ATV320U30N4C	**443L56**
5	9.5	12.80"	2.36"	9.65"	ATV320U40N4B	**443L58**
5	9.5	7.24"	5.51"	5.90"	ATV320U40N4C	**443L59**
7½	14.3	9.25"	5.90"	9.13"	ATV320U55N4B	**443L62**
10	17	9.25"	5.90"	9.13"	ATV320U75N4B	**443L65**
15	27.7	13.00"	7.08"	9.13"	ATV320D11N4B	**443L13**
20	33	13.00"	7.08"	9.13"	ATV320D15N4B	**443L16**
Altivar 320, 1-Phase 200 to 240VAC 50/60 Hz Input, 3-Phase 200 to 240VAC Output						
¼	1.5	12.80"	1.77"	9.65"	ATV320U02M2B	**443L18**
¼	1.5	5.62"	2.83"	3.97"	ATV320U02M2C	**443L19**
½	3.3	12.80"	1.77"	9.65"	ATV320U04M2B	**443L21**
½	3.3	5.62"	2.83"	4.72"	ATV320U04M2C	**443L22**
¾	3.7	12.80"	1.77"	9.65"	ATV320U06M2B	**443L26**
¾	3.7	5.62"	2.83"	5.31"	ATV320U06M2C	**443L27**
1	4.8	12.80"	1.77"	9.65"	ATV320U07M2B	**443L31**
1	4.8	5.62"	2.83"	5.31"	ATV320U07M2C	**443L32**
1½	6.9	12.80"	4.21"	9.65"	ATV320U11M2B	**443L37**
1½	6.9	5.59"	5.51"	5.90"	ATV320U11M2C	**443L38**
2	8	12.80"	2.36"	9.65"	ATV320U15M2B	**443L42**
2	8	5.59"	4.13"	5.90"	ATV320U15M2C	**443L43**
3	11	12.80"	2.36"	9.65"	ATV320U22M2B	**443L48**
3	11	5.59"	4.13"	5.90"	ATV320U22M2C	**443L49**
Altivar 320, 3-Phase 200 to 240VAC 50/60 Hz Input, 3-Phase 200 to 240VAC Output						
¼	1.5	5.62"	2.83"	4.72"	ATV320U02M3C	**443L20**
½	3.3	5.62"	2.83"	4.72"	ATV320U04M3C	**443L23**
¾	3.7	5.62"	2.83"	5.11"	ATV320U06M3C	**443L28**
1	4.8	5.62"	2.83"	5.11"	ATV320U07M3C	**443L33**
1½	6.9	5.62"	5.51"	5.11"	ATV320U11M3C	**443L39**
2	8	5.62"	4.13"	5.11"	ATV320U15M3C	**443L44**
3	11	5.62"	4.13"	5.11"	ATV320U22M3C	**443L50**
4	13.7	7.24"	5.51"	5.90"	ATV320U30M3C	**443L54**
5	17.5	7.24"	5.51"	5.90"	ATV320U40M3C	**443L57**
7½	27.5	9.13"	5.90"	6.69"	ATV320U55M3C	**443L61**
Altivar 320, 3-Phase 380 to 480VAC 50/60 Hz Input, 3-Phase 380 to 480VAC Output						
½	1.5	12.80"	1.77"	9.65"	ATV320U04N4B	**443L24**
½	1.5	5.62"	4.21"	5.90"	ATV320U04N4C	**443L25**
¾	1.9	12.80"	1.77"	9.65"	ATV320U06N4B	**443L29**
¾	1.9	5.62"	4.21"	5.90"	ATV320U06N4C	**443L30**
Altivar 320, 3-Phase 575VAC 50/60 Hz Input, 3-Phase 575VAC Output						
1	1.7	5.62"	4.21"	5.90"	ATV320U07S6C	**443L36**
2	2.7	5.62"	4.21"	5.90"	ATV320U15S6C	**443L47**
3	3.9	7.24"	5.51"	5.90"	ATV320U22S6C	**443L53**
5	6.1	7.24"	5.51"	5.90"	ATV320U40S6C	**443L60**
7½	9	9.13"	5.90"	6.69"	ATV320U55S6C	**443L63**
10	11	9.13"	5.90"	6.69"	ATV320U75S6C	**443L66**
15	17	12.99"	7.08"	7.48"	ATV320D11S6C	**443L14**
20	22	12.99"	7.08"	7.48"	ATV320D15S6C	**443L17**
Accessories						
Connecting Cable for ATV12, ATV312, and Multiloader					VW3A8126	**5WJN1**
EMC Conformity Kit for ATV12 Drives 2.83" W					VW3A9523	**5WJN3**
EMC Conformity Kit for ATV12 Drives 4.13" W					VW3A9524	**5WJN4**
EMC Filter for ATV12 Drives 1-Phase Input, 1 to 3 HP					VW3A4417	**5WJL5**
EMC Filter for ATV12 Drives 1-Phase Input, Up to 1 HP					VW3A4416	**5WJL4**
EMC Filter for ATV12 Drives 3-Phase Input, 2 to 3 HP					VW3A4419	**5WJL7**
EMC Filter for ATV12 Drives 3-Phase Input, Up to 1 HP					VW3A4418	**5WJL6**
Mounting Plate for ATV12 Drives 2.83" W					VW3A9804	**5WJN6**
Mounting Plate for ATV12 Drives 4.13" W					VW3A9805	**5WJN7**
Program Multiloader for ATV12, 312, 61, 71 Drives					VW3A8121	**5WJN0**
Remote Keypad, IP54 for ATV12 Drives					VW3A1006	**5WJL2**
Remote Keypad, IP65 for ATV12 Drives					VW3A1007	**5WJL3**
Simple Program Loader for ATV12, 312, 61, 71 Drives					VW3A8120	**5WJL9**
USB to RJ45 Adaptor Kit for Altivar and Altistart					TCSMCNAM3M002P	**5WJL1**
Voltage Converter for ATV12 Drives					VW3A9317	**5WJN2**


Altivar 12


Altivar 320

Schneider Electric

AC Adjustable-Frequency Drives, Altivar® 12 and 320

- Enclosure rating: IP20

Ideal for constant-torque simple machines such as conveyors, mixers, gate control, machine movement, small pumps and fans, and positive displacement pumps. Perfect replacements for reversing motor controls and 2-speed motor controls. See Grainger.com® for Conduit Entry Kits.



No. 14L808

Schneider Electric

AC Adjustable-Frequency Drives, Altivar® 71

- Enclosure rating: IP20

Quick-start drives provide excellent torque performance and speed regulation. Large, easy-to-read customizable display uses plain text words and features a navigation wheel that allows users to scroll through dropdown menus. Integrated Modbus/CANopen port allows easy integration into automation systems and also provides other optional communications connectivity. Excellent for constant torque applications like conveying, hoisting, grinding, and crushing.

Note: Additional Type I Conduit Entry Kits are available; see Grainger.com®.

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
1 or 3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
1, 2	4.8, 8	9.06"	5.12"	6.89"	ATV71HU15M3	**14L809**
2, 3	8, 11	10.24"	6.10"	7.36"	ATV71HU22M3	**14L810**
3, 4	11, 13.7	10.24"	6.10"	7.36"	ATV71HU30M3	**14L811**
4, 5	13.7, 17.5	10.24"	6.10"	7.36"	ATV71HU40M3	**14L818**
5, 7½	17.5, 27.5	11.61"	6.89"	7.36"	ATV71HU55M3	**14L819**
7½, 10	27.5, 33	11.61"	8.27"	8.39"	ATV71HU75M3	**14L812**
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
½, 1	3, 4.8	9.06"	5.12"	6.89"	ATV71H075M3	**14L808**
½	3	9.06"	5.12"	6.89"	ATV71H037M3	**14L817**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.3	9.06"	5.12"	6.89"	ATV71H075N4	**14L821**



Altivar 212
No. 13E168

Schneider Electric

Enclosed AC Adjustable-Frequency Drives, Altivar® 212

- NEMA Type 12 enclosure
- Help reduce energy consumption by up to 30%

Use drives to adjust motor speed. Help lower installation costs by eliminating the need for throttling valves, dampers, or inlet guide vanes that are typically used in fluid control applications. Excellent for air or fluid applications including HVAC supply and return fans, exhaust and ventilation fans, cooling tower fans and pumps, chiller water and hot water pumps, and domestic water pumps.

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
Altivar 212, 3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.2	11.69"	8.46"	7.56"	ATV212W075N4	**13E168**
2	3.7	11.69"	8.46"	7.56"	ATV212WU15N4	**13E169**
3	5.1	11.69"	8.46"	7.56"	ATV212WU22N4	**13E170**
4	7.2	13.39"	9.06"	8.19"	ATV212WU30N4	**13E171**
5	9.1	13.39"	9.06"	8.19"	ATV212WU40N4	**13E172**
7½	12	13.39"	9.06"	8.19"	ATV212WU55N4	**13E173**
10	16	13.39"	9.06"	8.19"	ATV212WU75N4	**13E174**
15	22.5	22.05"	11.41"	12.4"	ATV212WD11N4	**13E175**
20	30.5	22.05"	11.41"	12.4"	ATV212WD15N4	**13E176**
25	37	26.18"	12.2"	12.4"	ATV212WD18N4	**13E177**
30	43.5	28.35"	11.18"	12.4"	ATV212WD22N4	**13E178**
40	58.5	28.35"	11.18"	12.4"	ATV212WD30N4	**13E179**



No. 14H032

Schneider Electric

S-Flex Drives

- NEMA Type 1 enclosure

Compact drives are designed specifically to provide commercial pump and fan start-up programming with the simplest operation and quickest payback. Excellent for HVAC applications in residential high-rise and mixed-use buildings, commercial office buildings, and in schools and campus environments.

Max. HP	Max. Output Amps	H	W	D	WITHOUT BYPASS Mfr. Model	WITHOUT BYPASS Item No.	WITH BYPASS Mfr. Model	WITH BYPASS Item No.	WITH BYPASS AND LINE CONTACTOR Mfr. Model	WITH BYPASS AND LINE CONTACTOR Item No.
3-Phase 208VAC 50/60 Hz Input, 3-Phase 208VAC Output										
7½	25.3	40.375"	9.038"	10.141"	SFD212GG2WD07	**14H036**	SFD212GG2YD07	**14H047**	SFD212GG2YB07D07	**14H058**
1	4.8	40.375"	9.038"	10.141"	SFD212CG2WD07	**14H032**	SFD212CG2YD07	**14H043**	SFD212CG2YB07D07	**14H054**
2	7.8	40.375"	9.038"	10.141"	SFD212DG2WD07	**14H033**	SFD212DG2YD07	**14H044**	SFD212DG2YB07D07	**14H055**
3	17.5	40.375"	9.038"	10.141"	SFD212EG2WD07	**14H034**	SFD212EG2YD07	**14H045**	SFD212EG2YB07D07	**14H056**
5	17.5	40.375"	9.038"	10.141"	SFD212FG2WD07	**14H035**	SFD212FG2YD07	**14H046**	SFD212FG2YB07D07	**14H057**
10	25.3	40.375"	9.038"	10.141"	SFD212HG2WD07	**14H037**	SFD212HG2YD07	**14H048**	SFD212HG2YB07D07	**14H059**
15	48.3	45.142"	12.538"	10.99"	SFD212JG2WD07	**14H038**	SFD212JG2YD07	**14H049**	SFD212JG2YB07D07	**14H060**
20	62.1	45.142"	12.538"	10.99"	SFD212KG2WD07	**14H039**	SFD212KG2YD07	**14H050**	SFD212KG2YB07D07	**14H061**
25	78.2	45.142"	12.538"	10.99"	SFD212LG2WD07	**14H040**	SFD212LG2YD07	**14H051**	SFD212LG2YB07D07	**14H062**
30	92	62.006"	12.532"	13.181"	SFD212MG2WD07	**14H041**	SFD212MG2YD07	**14H052**	SFD212MG2YB07D07	**14H063**
40	120	64.9"	15.243"	14.217"	SFD212NG2WD07	**14H042**	SFD212NG2YD07	**14H053**	SFD212NG2YB07D07	**14H064**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output										
7½	11	40.375"	9.038"	10.141"	SFD212GG4WD07	**14H069**	SFD212GG4YD07	**14H080**	SFD212GG4YB07D07	**14H091**
1	2.1	40.375"	9.038"	10.141"	SFD212CG4WD07	**14H065**	SFD212CG4YD07	**14H076**	SFD212CG4YB07D07	**14H087**
2	3.4	40.375"	9.038"	10.141"	SFD212DG4WD07	**14H066**	SFD212DG4YD07	**14H077**	SFD212DG4YB07D07	**14H088**
3	4.8	40.375"	9.038"	10.141"	SFD212EG4WD07	**14H067**	SFD212EG4YD07	**14H078**	SFD212EG4YB07D07	**14H089**
5	7.6	40.375"	9.038"	10.141"	SFD212FG4WD07	**14H068**	SFD212FG4YD07	**14H079**	SFD212FG4YB07D07	**14H090**
10	14	40.375"	9.038"	10.141"	SFD212HG4WD07	**14H070**	SFD212HG4YD07	**14H081**	SFD212HG4YB07D07	**14H092**
15	21	40.375"	9.038"	10.141"	SFD212JG4WD07	**14H071**	SFD212JG4YD07	**14H082**	SFD212JG4YB07D07	**14H093**
20	27	45.142"	12.538"	10.99"	SFD212KG4WD07	**14H072**	SFD212KG4YD07	**14H083**	SFD212KG4YB07D07	**14H094**
25	34	45.142"	12.538"	10.99"	SFD212LG4WD07	**14H073**	SFD212LG4YD07	**14H084**	SFD212LG4YB07D07	**14H095**
30	40	62.006"	12.532"	13.181"	SFD212MG4WD07	**14H074**	SFD212MG4YD07	**14H085**	SFD212MG4YB07D07	**14H096**
40	52	62.006"	12.532"	13.181"	SFD212NG4WD07	**14H075**	SFD212NG4YD07	**14H086**	SFD212NG4YB07D07	**14H097**

Fuji Electric

AC Adjustable-Frequency Drives, FRENIC-Mini C2

- Accept 4 to 20mA, 0 to 5VDC, or 0 to 10VDC inputs
- Output frequency: 0 to 400 Hz
- PID control function
- Built-in Modbus RTU
- Synchronous motor control

Compact design for areas with limited space; zero clearance required when mounting side-by-side. Automatic energy savings reduce motor loss and electric costs. High starting torque. Soft-switching insulated gate bipolar transistors (IGBT) allow use with standard general-purpose motors. Include built-in dynamic brake control, single-turn trim pot for speed control, and LED display. For use in fans, blowers, conveyors, machine tools, and other industrial equipment. C-UL Listed and CE Certified.

Note: Do not use with hazardous location motors. Contact your local Grainger branch for complete specifications.

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
1-Phase 120VAC 50/60 Hz Input, 3-Phase 240VAC Output						
⅛	0.7	4.72"	3.15"	3.94"	FRN0001C2S-6U	**3XA37**
¼	1.4	4.72"	3.15"	3.94"	FRN0002C2S-6U	**3XA38**
½	2.5	4.72"	3.15"	4.53"	FRN0003C2S-6U	**3XA39**
1	4.2	5.12"	4.33"	5.47"	FRN0005C2S-6U	**3XA45**
1-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
¼	1.5	4.72"	3.15"	3.15"	FRN0002C2S-7U	**4RG30**
½	3	4.72"	3.15"	3.74"	FRN0004C2S-7U	**4RG31**
1	5	4.72"	3.15"	5.51"	FRN0006C2S-7U	**4RG32**
2	8	5.12"	4.33"	5.87"	FRN0010C2S-7U	**4RG33**
3	11	7.09"	5.51"	5.47"	FRN0012C2S-7U	**5HT20**
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
⅛	0.8	4.72"	3.15"	3.15"	FRN0001C2S-2U	**5HT22**
¼	1.5	4.72"	3.15"	3.15"	FRN0002C2S-2U	**4RG34**
½	3	4.72"	3.15"	3.74"	FRN0004C2S-2U	**4RG35**
1	5	4.72"	3.15"	4.72"	FRN0006C2S-2U	**4RG36**
2	8	5.12"	4.33"	5.47"	FRN0010C2S-2U	**4RG37**
3	11	5.12"	4.33"	5.47"	FRN0012C2S-2U	**4RG38**
5	17	7.09"	5.51"	5.47"	FRN0020C2S-2U	**4RG39**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
½	1.5	5.12"	4.33"	4.53"	FRN0002C2S-4U	**3XA40**
1	2.5	5.12"	4.33"	5.47"	FRN0004C2S-4U	**3XA41**
2	3.7	5.12"	4.33"	5.47"	FRN0005C2S-4U	**3XA42**
3	5.5	5.12"	4.33"	5.47"	FRN0007C2S-4U	**3XA43**
5	9	7.09"	5.51"	5.47"	FRN0011C2S-4U	**3XA44**



No. 3XA37

For Use With	Mfr. Model	Item No.
AC Drive DIN Rail Kits		
Mfr. No. FRNF12C1S-6U, FRNF25C1S-6U, FRNF50C1S-6U, FRNF25C1S-7U, FRNF50C1S-7U, FRN001C1S-7U, FRNF25C1S-2U, FRNF50C1S-2U, FRN001C1S-2U, FRNF12C1S-7U, FRNF12C1S-2U	RMA-C_-0.75	**3XA58**
Mfr. No. FRNF50C1S-4U, FRN001C1S-4U, FRN002C1S-4U, FRN003C1S-4U, FRN001C1S-6U, FRN002C1S-7U, 4RG37-4RG38	RMA-C_-2.2	**3XA59**
3XA44, 4RG39 and 5HT20 AC Adjustable Frequency Drives	RMA-C_-3.7	**3XA60**
AC Drive NEMA 1 Kits		
Mfr. No. FRN001C1S-4U	NEMA1-0.75C1-4	**3XA52**
4RG30, 4RG34, 5HT21 and 5HT22 AC Adjustable Frequency Drives	NEMA1-C2-101	**3XA46**
Mfr. No. FRNF50C1S-7U, FRNF50C1S-2U	NEMA1-C2-102	**3XA47**
4RG36 AC Adjustable Frequency Drive	NEMA1-C2-103	**3XA48**
Mfr. No. FRN001C1S-7U	NEMA1-C2-104	**3XA54**
3XA37 and 3XA38 AC Adjustable Frequency Drives	NEMA1-C2-105	**3XA56**
Mfr. No. FRNF50C1S-6U	NEMA1-C2-106	**3XA61**
Mfr. No. FRN002C1S-4U, FRN003C1S-4U, FRN002C1S-2U, FRN003C1S-2U	NEMA1-C2-201	**3XA49**
3XA40 AC Adjustable Frequency Drive	NEMA1-C2-202	**3XA51**
Mfr. No. FRN002C1S-7U	NEMA1-C2-204	**3XA55**
3XA45 AC Adjustable Frequency Drive	NEMA1-C2-205	**3XA62**
Mfr. No. FRN005C1S-4U, FRN005C1S-2U, FRN003C1S-7U	NEMA1-C2-301	**3XA50**
Remote Keypads		
3XA37 through 3XA56, 4RH30 thru 4RG39, 5HT20, 5HT21 & 5HT22	TP-E1	**33M428**
Remote Keypad with Gaskets		
3XA37 through 3XA56, 4RH30 thru 4RG39, 5HT20, 5HT21 & 5HT22	TP-E1W	**33M434**

EATON

Adjustable-Frequency Drives, DG1 Series

- Graphic LCD display and keypad
- IP21 and IP54 enclosure

These general purpose drives are designed for more demanding commercial and industrial applications. These drives feature Active Energy Control for increased efficiency, safety, and reliability. Additional features include: brake chopper; dual overload ratings—110% variable torque, 150% constant torque; integrated common mode reduction 5% DC link choke with input surge; EMI/RFI filters; real-time clock; local/remote operation from keypad and 2 configurable soft keys; external auxiliary control capability; standard I/O-8DI, 1DO2AI, 2AO, 3 relays; Ethernet IP and modbus communications; and 2 expansion slots to support additional I/O or communication protocols.

Description	Mfr. Model	Item No.
Accessories		
Clock Battery, Real Time	DXG-ACC-RTBATT	**40HZ20**
Control Module Kit with Keypad	DXG-SPR-CTRLKIT	**40HZ17**
Fan Kit with Frame, Frame 1	DXG-ACC-4FR1N12KIT	**40HY89**
Fan Kit, Frame 1	DXG-SPR-FR1FAN	**40HY79**
Fan Kit, Frame 2	DXG-SPR-FR2FAN	**40HZ06**
Fan Kit, Frame 3	DXG-SPR-FR3FAN	**40HZ14**
Fan Kit, Frame 4	DXG-SPR-FR4FAN	**40HY88**
Fan Kit, Frame 5	DXG-SPR-FR5FAN	**40HZ31**
Flange Kit with Frame, Frame 2	DXG-ACC-FR2N12KIT	**40HY93**
Flange Kit, Frame 1	DXG-ACC-FR1N12FK	**40HZ19**
Flange Kit, Frame 2	DXG-ACC-FR2N12FK	**40HZ28**
Flange Kit, Frame 3	DXG-ACC-FR3N12FK	**40HZ26**
Flange Kit, Frame 4	DXG-ACC-FR4N12FK	**40HZ34**
Flange Kit, Frame 5	DXG-ACC-FR5N12FK	**40HY80**
Frame Kit, Frame 3	DXG-ACC-FR3N12KIT	**40HZ16**
Input Option Card, (6) Digital Inputs	DXG-EXT-6DI	**40HY98**
Keypad Hole Plug, Type 12, IP54	DXG-KEY-N12PLUG	**40HY85**
Option Card, Isolated Control	DXG-EXT-1AI2AO	**40HZ05**
Relay Dry Contact, Option Card	DXG-EXT-3RO	**40HZ03**
Remote Keypad Cable	DXG-CBL-3M0	**40HZ10**
Remote Keypad Cable	DXG-CBL-1M0	**40HZ32**
Remote Keypad Kit	DXG-KEY-RMTKIT	**40HZ11**
Remote Keypad Mounting Holder	DXG-KEY-HOLDER	**40HY96**
Standard Keypad, DG1 Keypad	DXG-KEY-LCD	**40HY77**
Thermistor Input Card, (3) Digital Input, (3) Digital Output	DXG-EXT-3DI3DO1T	**40HZ24**
Thermistor Input Card, RTD	DXG-EXT-THER1	**40HY94**



No. 40HY75

Max. HP	Max. Output Amps	H	W	D	Mfr. Model	Item No.
3-Phase 240VAC 50/60 Hz Input, 3-Phase 240VAC Output						
0.75	3.7	11.5"	6.02"	7.89"	DG1-323D7FB-C21C	**40HY78**
1	4.8	11.5"	6.02"	7.89"	DG1-324D8FB-C21C	**40HY82**
1.5	6.6	11.5"	6.02"	7.89"	DG1-326D6FB-C21C	**40HY90**
2	7.8	11.5"	6.02"	7.89"	DG1-327D8FB-C21C	**40HZ35**
3	11	11.5"	6.02"	7.89"	DG1-32011FB-C21C	**40HY86**
5	17.5	14.96"	6.61"	9.63"	DG1-32017FB-C21C	**40HY83**
5	17.5	14.96"	6.61"	9.63"	DG1-32012FB-C21C	**40HZ13**
7.5	25	14.96"	6.61"	9.63"	DG1-32025FB-C21C	**40HZ29**
10	31	20.43"	8.06"	10.44"	DG1-32031FB-C21C	**40HZ12**
15	48	20.43"	8.06"	10.44"	DG1-32048FB-C21C	**40HZ30**
20	61	23.27"	9.36"	11.57"	DG1-32061FN-C21C	**40HZ25**
25	75	23.27"	9.36"	11.57"	DG1-32075FN-C21C	**40HZ27**
30	88	23.27"	9.36"	11.57"	DG1-32088FN-C21C	**40HY99**
40	114	27.83"	11.34"	13.41"	DG1-32114FN-C21C	**40HZ15**
50	143	27.83"	11.34"	13.41"	DG1-32143FN-C21C	**40HY91**
60	170	27.83"	11.34"	13.41"	DG1-32170FN-C21C	**40HY87**
3-Phase 480VAC 50/60 Hz Input, 3-Phase 480VAC Output						
1	2.2	11.5"	6.02"	7.89"	DG1-342D2FB-C21C	**40HZ08**
1.5	3.3	11.5"	6.02"	7.89"	DG1-343D3FB-C21C	**40HY81**
2	4.3	11.5"	6.02"	7.89"	DG1-344D3FB-C21C	**40HY84**
3	5.6	11.5"	6.02"	7.89"	DG1-345D6FB-C21C	**40HZ18**
5	7.6	11.5"	6.02"	7.89"	DG1-347D6FB-C21C	**40HY75**
7.5	12	14.96"	6.61"	9.63"	DG1-34012FB-C21C	**40HY76**
7.5	12	11.5"	6.02"	7.89"	DG1-349D0FB-C21C	**40HZ22**
10	16	14.96"	6.61"	9.63"	DG1-34016FB-C21C	**40HZ21**
15	23	14.96"	6.61"	9.63"	DG1-34023FB-C21C	**40HY95**
20	31	20.43"	8.06"	10.44"	DG1-34031FB-C21C	**40HZ33**
25	38	20.43"	8.06"	10.44"	DG1-34038FB-C21C	**40HZ02**
30	46	20.43"	8.06"	10.44"	DG1-34046FB-C21C	**40HZ01**
40	61	23.27"	9.36"	11.57"	DG1-34061FN-C21C	**40HZ04**
50	72	23.27"	9.36"	11.57"	DG1-34072FN-C21C	**40HY92**
60	87	23.27"	9.36"	11.57"	DG1-34087FN-C21C	**40HZ23**
75	105	27.83"	11.34"	13.41"	DG1-34105FN-C21C	**40HZ09**
100	140	27.83"	11.34"	13.41"	DG1-34140FN-C21C	**40HZ07**
125	170	27.83"	11.34"	13.41"	DG1-34170FN-C21C	**40HY97**



No. 5JJ60



No. 5JPF3

Adjustable AC Voltage Supplies

Operable on 60/50 Hz at ±10% rated line voltage. For universal, shaded pole, and PSC (permanent split capacitor) 1-phase AC motors. Suitable for use in fans, blowers, pumps, vibratory feeders, and heating and lighting applications.

Note: Check with motor manufacturer before using. Not for use with split-phase or capacitor-start motors.

CHASSIS

Supplied with speed pot, knob, and dial plate.

NEMA 1

Feature rugged housing, power On/Off switch, power indicator lamp, front-access fuse protection, and input and output cords and plugs.

120VAC

Include a standard male wall plug with 18" cord and female output connector integral to housing.

240VAC

Include 6-ft. input and output cords. Cord leads are prepped for wiring to suitable connector.

Description	HP	Input Voltage	Max. Amps	Voltage Output	W (in.)	L (in.)	D (in.)	Mfr. Model	Item No.
Chassis	¼	120VAC	2.5	120VAC	1.5	2	0.40625	AC03-05S	**5JJ60**
NEMA 1	1	120VAC	10	120VAC	4	5.53	3.8	55AC10E	**5JPF3**
NEMA 1	1.5	120VAC	15	120VAC	4	5.53	3.8	55AC15E	**5JPF4**
NEMA 1	2	240VAC	10.0	240VAC	4	5.53	3.8	57AC10E	**5JPF5**
NEMA 1	2½	240VAC	15.0	240VAC	4	5.53	3.8	57AC15E	**5JPF6**



No. 4Z827



No. 4Z527



No. 1F794



No. 5X485



No. 2M510



No. 6Z386

DC Adjustable-Speed Controls

- **Built-in transient and surge suppression**

For permanent magnet or shunt-wound DC motors and gearmotors. Solid-state speed controls convert line voltage input to full-wave DC power on constant- or diminishing-torque applications. No. 4Z829 includes isolated voltage/current follower input with an auto manual switch. No. 13A944 includes an isolated 4-20 current follower only.

DAYTON®

- Adjustable min./max. speed and IR compensation
- Speed regulation: ±1%

DART

- Adjustable min./max. speed and IR compensation
- Speed regulation: ±1% with armature voltage feedback and ±0.5% with tach feedback
- Chassis models include speed pot, knob, and dial plate

Operable on 60/50 Hz at ±10% rated line voltage. Inhibit circuit allows Start/Stop without breaking AC lines. No. 2LHT5 features electronic safety interlock. Agency standards: Nos. 6Z385, 6Z386, 2LHT6, and reversing/cycling chassis models are UL and C-UL Listed. All others are UL and C-UL Recognized. Nos. 2M510, 5DYG9, 2LHT5, and 2LHT4 are also CE Certified.

Reversing/Cycling

- Cycle rate: 3 cpm

Provide instant reversing, precise stopping, or cycling. Fit industry standard footprint for both vertical and horizontal mounting. Automatic dynamic braking on power loss. Zero-speed detect circuit eliminates contact arcing and motor plug reversing.

Note: No. 2M511 has a cycle rate up to 30 cpm. No. 2LHT6 is reversing only, and is not a cycling control.

Enclosure	AC Input Voltage	HP @ 90VDC	HP @ 180VDC	Speed Range	Linear Accel.	Linear Decel.	Current/ Torque Limit	Shunt Wound Volts	Accepts Tach Feedback	Dynamic Braking	External Switches	W	H	D	Mfr. Model	Item No.
Dayton® DC Adjustable Speed Controls																
Chassis	120/240VAC	1/50 to 1/6	1/25 to ⅓	25:1	Fixed 0.5 sec.	—	None	100/200VDC	No	No	ON/OFF	4.9"	4"	2"	4Z827	**4Z827**
NEMA 1	120/240VAC	1/50 to 1/6	1/25 to ⅓	25:1	Fixed 0.5 sec.	—	None	100/200VDC	No	No	ON/OFF	4.25"	5"	1.88"	4Z527	**4Z527**
NEMA 1	120VAC	1/50 to 1/6	—	25:1	Fixed 0.5 sec.	—	None	—	No	No	ON/OFF	6"	6"	6.38"	5X412	**5X412** #
NEMA 4/12	120/240VAC	1/50 to ⅛	1/25 to ¼	50:1	Fixed 1 to 3 sec.	Fixed 0.5 sec.	Adjustable	100/200VDC	Yes	Yes	ON/OFF, FWD/ STOP/REV	5"	9.5"	5.5"	6X165	**6X165** *#
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Fixed 1 to 3 sec.	Fixed 0.5 sec.	Adjustable	100/200VDC	Yes	Yes	ON/OFF, FWD/ STOP/REV	5"	9.5"	5.5"	2M171	**2M171** *#
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Fixed 1 to 3 sec.	Fixed 0.5 sec.	Adjustable	100/200VDC	Yes	Yes	ON/OFF, FWD/ STOP/REV	5"	9.5"	5.5"	1F794	**1F794** *†#
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Fixed 1 to 3 sec.	Fixed 0.5 sec.	Adjustable	100/200VDC	Yes	No	ON/OFF	5"	9.5"	5.5"	5X485	**5X485** #
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Fixed 1 to 3 sec.	Fixed 0.5 sec.	Adjustable	100/200VDC	Yes	Yes	ON/OFF, FWD/ STOP/REV, AUTO/MANUAL	5"	9.5"	5.5"	4Z829	**4Z829** *
NEMA 1	120/240VAC	¼ to 1	½ to 2	50:1	Fixed	Fixed	Adjustable	—	No	No	FWD/OFF/REV	6"	5.13"	6.5"	41D720	**41D720** #
Dart DC Adjustable Speed Controls																
Chassis	120/240VAC	1/50 to 1/6	1/25 to ⅓	25:1	Fixed 0.5 sec.	—	None	100/200VDC	No	No	None	2.8"	1.3"	3.3"	15DV1A	**5JJ56** ‡
Chassis	120/240VAC	1/50 to 1/6	1/25 to ⅓	25:1	Fixed 0.5 sec.	Fixed 0.5 sec.	None	100/200VDC	No	No	None	2.8"	1.5"	3.3"	15DV2A	**5JJ57** ‡
NEMA 4/12	120/240VAC	1/50 to ⅓	1/25 to ⅔	25:1	Fixed 0.5 sec.	—	None	100/200VDC	No	No	ON/OFF	3.81"	5.5"	3.5"	15DVE	**5JJ58** #
Chassis	120/240VAC	1/50 to ⅛	1/25 to ¼	50:1	Adjustable 0.5 to 8 sec.	Adjustable 0.5 to 8 sec.	Adjustable	100/200VDC	Yes	No	None	3.63"	4.25"	1.31"	125D-12C-2A	**5DYG9**
Chassis	120/240VAC	⅛ to ½	¼ to 1	50:1	Fixed 6 sec.	Fixed 6 sec.	Adjustable	100/200VDC	Yes	No	None	3.63"	4.25"	1.3"	125DV-C-K	**2M510**
Chassis	120/240VAC	⅛ to ½	¼ to 1	50:1	Fixed 0.5 sec.	—	Adjustable	100/200VDC	Yes	No	None	3.63"	4.25"	1.3"	125DV-C-1	**2LHT5**
Chassis	120/240VAC	⅛ to ½	¼ to 1	50:1	Adjustable 0.5 to 8 sec.	Adjustable 0.5 to 8 sec.	Adjustable	100/200VDC	Yes	No	None	3.63"	4.25"	1.3"	125DV-C-2A	**2LHT4**
Chassis	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.5 to 8 sec.	—	Adjustable	100/200VDC	Yes	No	None	5.53"	7"	1.63"	253G-200C	**6Z385** #
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.5 to 8 sec.	—	Adjustable	100/200VDC	Yes	No	ON/OFF	5.53"	7.25"	2.75"	253G-200E	**6Z386** #
NEMA 4X	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.5 to 8 sec.	—	Adjustable	100/200VDC	Yes	No	ON/OFF, AUTO/ MANUAL	5.53"	7.25"	2.75"	253G-200E-7	**13A944**
Chassis	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.3 to 12 sec.	Adjustable 0.6 to 12 sec.	Adjustable	100/200VDC	Yes	No	None	6.7"	9"	2"	530BC	**6Z387** #
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.3 to 12 sec.	Adjustable 0.6 to 12 sec.	Adjustable	100/200VDC	Yes	No	ON/OFF	6.7"	10"	4.75"	530BRE	**6Z388** #
Chassis	120/240VAC	⅛ to 1½	¼ to 3	50:1	Adjustable 0.3 to 12 sec.	Adjustable 0.6 to 12 sec.	Adjustable	100/200VDC	Yes	No	None	6.7"	9"	2"	533BC	**5JJ59** #
Dart DC Adjustable Speed Controls For Reversing/Cycling Applications																
Chassis	120VAC	1/50 to ⅛	—	50:1	Fixed 0.5 sec.	—	Adjustable	100VDC	No	Yes	None	3.75"	6.25"	2.65"	130LC12	**5HA32**
Chassis	120VAC	⅛ to ½	—	50:1	Fixed 0.5 sec.	—	Adjustable	100VDC	No	Yes	None	3.75"	6.25"	2.65"	130LC100	**5HA33**
NEMA 4/12	120VAC	⅛ to 1	—	50:1	Adjustable 0.3 to 12 sec.	Adjustable 0.6 to 12 sec.	Adjustable	100VDC	Yes	Yes	ON/OFF, FWD/ STOP/REV	6.7"	10"	4.75"	530BRE-36MA	**2M511** #
NEMA 4/12	120/240VAC	⅛ to 1	¼ to 2	50:1	Adjustable 0.5 to 8 sec.	Fixed	Adjustable	100/200VDC	Yes	No	FWD/OFF/REV	5.53"	7.25"	2.75"	253G-200E-29	**2LHT6** #
Chassis	240VAC	1/25 to ¼	1/25 to ¼	50:1	Fixed 0.5 sec.	—	Adjustable	200VDC	No	Yes	None	3.75"	6.25"	2.65"	132LC25	**5HA34**
Chassis	240VAC	⅛ to 1	¼ to 1	50:1	Fixed 0.5 sec.	—	Adjustable	200VDC	No	Yes	None	3.75"	6.25"	2.65"	132LC200	**5HA35**

Braking kit included; installation voids UL. † Washdown with booted switches. ‡ L and J refer to shape of the speed pot bracket. # Fuse protected.

90/180VDC Field Programmable Closed Loop Controls

DART CONTROLS

- NEMA rated 4X (panel mount), 4, and 12
- Support any AC voltage from 85 to 265VAC, 60/50 Hz
- Pulse generator required; sold separately, this page
- For best results, recommend 500 pulses/min.

Designed for use with 90/180V permanent magnet DC motors and gearmotors. Microprocessor-based with nonvolatile memory. Easy front-panel programming with lockout capability. Set speed can be displayed in rpm, fpm, gpm, process time, or other engineering units. Digital closed loop accuracy ±½ rpm. ½" programmable digital display features adjustable intensity and shows any time or rate base units. Operate in master or follower modes. Sturdy aluminum case construction. Screw-type terminal strip for easy installation.

HP @ Lower Volts	HP @ Higher Volts	Mount Type	W	H	D	Std.	Mfr. Model	Item No.
1/50 to ½	1/25 to 1	⅛ DIN	3.62"	1.66"	4.13"	cULus	MD10P	**1XC92**
⅛ to 1	¼ to 2	¼ DIN	3.62"	3.5"	4.63"	cULus Recognized	MD3P	**2LHU3**
⅛ to 1	¼ to 2	Wall	5.5"	7.4"	4"	cULus Recognized	MD3E	**2LHU2**



No. 1XC92

DC Tachometer and Pulse Generators

DART CONTROLS

TACHOMETER/PROCESS METER

- 4-digit ½" LED
- NEMA 4X rating (faceplate with supplied gasket)
- Includes option board for proximity sensor input

Microprocessor-based digital system can measure shaft speed lower than 1 rpm and can operate as a digital rate meter, timer, or process counter. Operates on 5V square-wave pulse supplied by pulse generator, sold separately. An onboard microcomputer equipped with sophisticated software, quartz crystal controlled reference frequency, and display updating on every pulse permits accuracy of ±0.04%. Offers a 5A, form C relay alarm output that can be adjusted for a number of trigger conditions. Selectable alarm output modes: low, high, window, or not window. Nonvolatile memory stores custom settings.

PULSE GENERATORS

- Operating temp. range: -10° to 45°C
- Max. shaft speed: 5000 rpm

Provide square-wave pulses with frequency proportional to shaft rpm of unit to which it is mounted. Stainless steel ball bearing, compact Santoprene™ rubber housing, and 6-ft. rubber-jacketed output cable with 3-wire 18 AWG conductors. Mount directly to motor shaft being monitored using single #10-32 screw.

Description	Input Voltage	Pulses per Revolution	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
Tachometer and Process Meter	120/240VAC	—	4	1.77	4.55	DM8000	**3VU57**
Pulse Generator	4.5 to 24VDC	1	—	—	—	PU-2E	**6Z392**
Pulse Generator	4.5 to 24VDC	10	—	—	—	PU-20E	**5JJ65**
Pulse Generator	4.5 to 24VDC	20	—	—	—	PU-40E	**38D074**



No. 3VU57


No. 6Z392

Low-Voltage DC Adjustable-Speed Controls

DART CONTROLS

- Adjustable min./max. speed and IR compensation
- HP is adjustable by built-in trim pot
- Inhibit capability
- Free-wheeling diode
- Chassis models include speed pot, knob, and dial plate

Provide wide-range, adjustable-speed control of permanent magnet or shunt-wound DC motors and gearmotors on constant- or diminishing-torque applications. Controls operate on ±10% rated input voltage, with low-voltage compensation and transient voltage protection. Suitable for conveyors, assembly lines, packaging, food processing, silk-screening, and photo processing equipment.

12/24VAC CHASSIS SCR CONTROLS

- Compact panel mount
- Max. HP and current can be doubled with suitable auxiliary heat sink

NEMA 4/12 SCR CONTROLS

- Mounted speed pot and On/Off switch
- Internally fused

PULSE-WIDTH MODULATED

- Adjustable acceleration: Nos. 2LHT8, 2LHT9, 6YC43, 6YC44 are 0.5 to 8 sec.; Nos. 38EG40 to 38EG43 and Nos. 2LHT8 and 2LHT9 are 0 to 10 sec.
- All pulse-width modulated controls have fixed deceleration of 0.5 seconds

FET PWM design results in cooler, quieter motor.


No. 5JJ53


No. 38EG40


No. 6YC43

Enclosure	HP @ Lower Volts	HP @ Higher Volts	Input Voltage	Max. Amps	Voltage Output	Speed Range	W	H	D	Mfr. Model	Item No.
SCR Controls											
Chassis	1/40	1/20	12/24VAC	2	0 to 11/22VDC	25:1	2.8"	1.3"	3.3"	13DV1A	**5JJ53**
Chassis	1/40	1/20	12/24VAC	2	0 to 11/22VDC	25:1	2.8"	1.5"	3.3"	13DV2A	**5JJ54**
NEMA 4	1/25	1/12	12/24VAC	3	0 to 11/22VDC	25:1	3.81"	5.5"	3.5"	13DVE	**5JJ55**
Pulse-Width Modulated Controls											
Chassis	1/50 to 1/6	½	12/48VDC	10	0 to 48VDC	30:1	4.25"	3.6"	1.68"	65E10C	**38EG40**
Chassis	1/25 to ⅓	1	12/48VDC	20	0 to 48VDC	30:1	4.25"	3.6"	2.03"	65E20C	**38EG41**
Chassis	⅛ to 1	¼ to ½	24/36VDC	40	0 to 24/36VDC	30:1	3.7"	7"	1.7"	65E40	**2LHT8**
Chassis	⅛ to 1	½ to 3	12VDC	60	0 to 12VDC	30:1	6.7"	9"	2.27"	65E60-12	**6YC43**
Chassis	⅓ to 2	½ to 3	24/36VDC	60	0 to 24/36VDC	30:1	6.7"	9"	2.27"	65E60	**6YC44**
Chassis	½	—	12VDC	40	0 to 12VDC	30:1	3.7"	7"	1.7"	65E40-12	**2LHT9**
NEMA 4X/12	1/50 to 1/6	½	12/48VDC	10	0 to 48VDC	30:1	5.53"	7.3"	4.78"	65E10E	**38EG42**
NEMA 4X/12	1/25 to ⅓	1	12/48VDC	20	0 to 48VDC	30:1	5.53"	7.3"	4.78"	65E20E	**38EG43**

DART CONTROLS

Potentiometer Kits

Type	Input Voltage	Voltage Output	Display	Includes	Mfr. Model	Item No.
5K Ohm	—	—	Dial Plate	Speed Pot, Knob, Dial Plate and 8¾" Leads	SA-STOK-WO	**2LHT7**
Digital	85 to 265VAC	0 to 24VDC	LED	Gasket Kit for NEMA 4X Panel Installation	DP4	**2LHU1**


5K Ohm



Digital



Class 8538 Fusible Starter No. 1H689



Class 8539 Circuit Breaker Starter No. 1H694

SQUARE D by Schneider Electric

NEMA Combination Motor Starters and Accessories

- 3-pole, 60/50 Hz, 600VAC max.
- Thermal units sold separately, see page 166
- Class RK5 (600V) fuses on page 178

Motor starter disconnect switches have a flange-operated visible blade switch. Fusible combination starters have a fusible disconnect switch and come complete with fuse blocks for RK5 type 600V fuses. Class R fuse clips sold separately. Circuit breaker combination starters feature a PowerPact® motor circuit protector.

NEMA Size	Thermal Enclosure Unit Code*	Thermal Enclosure NEMA Rating	Thermal Enclosure Amps AC	FUSIBLE HP @ 3-Phase 240V	FUSIBLE HP @ 3-Phase 480V	FUSIBLE Series	FUSIBLE Item No.	CIRCUIT BREAKER HP @ 3-Phase 240V	CIRCUIT BREAKER HP @ 3-Phase 480V	CIRCUIT BREAKER Series	CIRCUIT BREAKER Item No.
Separate Control, 120VAC Coil											
0	D1	1	18	—	5	8538SBG	**1H689**	3	5	8539SBG	**1H695**
0	D1	12	18	—	5	8538SBA	**1H688**	3	5	8539SBA	**1H694**
1	D1	1	27	—	10	8538SCG	**1H691**	7.5	10	8539SCG	**1H699**
1	D1	12	27	—	10	8538SCA	**1H690**	7.5	10	8539SCA	**1H697**
2	D4	1	45	—	25	8538SDG	**1H693**	10	25	8539SDG	**1YDU3**
2	D4	12	45	—	25	8538SDA	**1H692**	10	25	8539SDA	**1YDU4**
3	D5	1	90	30	50	8538SEG	**2FL22**	30	50	8539SEG	**1YDU5**
With Hand/Off/Auto Switch, 1 Red/1 Green LED Pilot Lights, Separate Control, 120VAC Coil, 2NO/2NC											
1	D1	12	27	2	—	8538SCA	**12N648**	—	—	—	—
1	D1	12	27	5	—	8538SCA	**12N642**	—	—	—	—
1	D1	12	27	—	10	8538SCA	**12N644**	—	—	—	—
1	D1	12	27	7.5	10	8538SCA	**12N650**	—	—	—	—
1	D1	12	27	7.5	10	8538SCA	**12N643**	—	—	—	—
1	D1	12	27	7.5	10	8538SCA	**12N649**	—	—	—	—
With Hand/Off/Auto Switch, 1 Red/1 Green LED Pilot Lights, Separate Control, 120VAC Coil, 2NO/2NC, Solid State Overload Relay											
1	—	12	27	—	—	—	—	2	5	8539SCA	**39N409**
1	—	12	27	—	—	—	—	7.5	10	8539SCA	**39N406**
2	—	12	45	2	15	8538SDA	**12N646**	10	25	8539SDA	**39N408**
2	—	12	27	7.5	7.5	8538SDA	**12N652**	—	—	—	—
2	—	12	45	15	10	8538SDA	**12N645**	7.5	15	8539SDA	**39N410**
2	—	12	45	15	—	8538SDA	**12N651**	10	25	8539SDA	**39N411**
2	—	12	45	—	25	8538SDA	**12N647**	—	—	—	—
2	—	12	45	—	25	8538SDA	**12N653**	—	—	—	—
With Hand/Off/Auto Switch, 1 Red Pilot Light, and 480V Control Transformer, 120VAC Coil, 1NO/1NC											
0	D1	1	18	—	5	8538SBG	**1YDV3**	—	—	—	—
0	D1	12	18	—	5	8538SBA	**1YDV4**	3	5	8539SBG	**1YDW3**
1	D1	1	27	7.5	10	8538SCG	**1YDV5**	—	—	—	—
1	D1	12	27	—	10	8538SCA	**1YDV6**	—	—	—	—
2	D4	1	45	—	25	8538SDG	**1YDV7**	—	—	—	—
2	D4	12	45	15	25	8538SDA	**1YDV8**	10	25	8539SDG	**1YDW5**
With Push-Button Start/Stop Switch, 1 Red Pilot Light, and 480V Control Transformer, 120VAC Coil, 1NO/1NC											
0	D1	1	18	3	5	8538SBG	**1YDU6**	3	5	8539SBG	**1YDV9**
0	D1	12	18	3	5	8538SBA	**1YDU7**	—	—	—	—
1	D1	1	27	7.5	10	8538SCG	**1YDU8**	—	—	—	—
1	D1	12	27	7.5	10	8538SCA	**1YDU9**	7.5	10	8539SCG	**1YDW1**
2	D4	1	45	15	25	8538SDG	**1YDV1**	—	—	—	—
2	D4	12	45	15	25	8538SDA	**1YDV2**	10	25	8539SDG	**1YDW2**

	Starter Size	Type	Mfr. Model	Item No.
Auxiliary Contact for Disconnect Switches				
	0 and 1	SPDT	9999TC11	**4RM84**

Description/ Special Features	Type	Max. Voltage	Disconnect Switch Size	Mfr. Model	Item No.
Fuse Rejection Kits					
NEMA 0, 1	Class R	250	30A	RFK03	**1H715**
NEMA 0, 1, 2	Class R	600	30 and 60A	RFK06	**1H716**
NEMA 1, 2	Class R	600	30A	RFK06	**2CR84**
NEMA 2	Class R	600	60A	RFK06H	**2CR85**
Control Transformer					
100VA, 240/480VAC Primary, 120VAC Secondary, 3.43 W x 5.82 H x 5.38" D				9070GO2D1	**1D644**

**** See page 166.***



With Start/Stop Push Buttons and Transformer No. 4LVX6



With Hand/Off/Auto Switch No. 6PXK1

GE Dayton

IEC Combination Motor Starters

- Short-circuit and motor overload protection
- 3-pole, 60/50 Hz
- 120VAC coil
- Self-protected, Type E
- 1NO auxiliary contact (GE includes 1NC)
- Hand/Off/Auto models have DIN rail-mount terminal blocks for external accessories
- 100VA transformer (where applicable)

Adjustable motor circuit protector eliminates the need for heater elements (thermal units). Starters have visual short-circuit indicator and LED pilot light. UL Listed, CSA Certified.

Amps AC	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Control Transformer	Brand	START/STOP PUSH BUTTON Item No.	HAND/OFF/ AUTO SELECTOR SWITCH Item No.
Enclosure NEMA Rating 1						
1 to 1.6	⅓	¾	No	GE	**39N381**	**39N387**
	⅓	¾	Yes	GE	**39N399**	**39N393**
1.5 to 2.5	½	1	No	GE	**39N382**	**39N388**
	½	1	Yes	GE	**39N401**	**39N394**
2.5 to 4	¾	2	No	GE	**39N383**	**39N389**
	¾	2	Yes	GE	**39N402**	**39N395**
4 to 6.3	1½	3	No	GE	**39N384**	**39N390**
	1½	3	Yes	GE	**39N403**	**39N396**
6.3 to 10	3	5	No	GE	**39N385**	**39N391**
	3	5	Yes	GE	**39N404**	**39N397**
9 to 13	3	7½	No	GE	**39N386**	**39N392**
	3	7½	Yes	GE	**39N405**	**39N398**
11 to 16	5	10	No	Dayton	**6PXJ3**	**6PXJ7**
	5	10	Yes	Dayton	—	**6PXK1**
14 to 20	5	10	No	Dayton	**6PXJ4**	**6PXJ8**
	5	10	Yes	Dayton	—	**6PXK2**
19 to 25	7½	15	No	Dayton	**6PXJ5**	**6PXJ9**
	7½	15	Yes	Dayton	—	**6PXK3**
24 to 32	10	20	No	Dayton	**6PXJ6**	**6PXK0**
	10	20	Yes	Dayton	—	**6PXK4**
Enclosure NEMA Rating 4X						
1 to 1.6	⅓	¾	Yes	GE	**39N375**	**41H798**
	⅓	¾	No	GE	**29HZ73**	**39N369**
1.5 to 2.5	½	1	Yes	GE	**39N376**	**41H799**
	½	1	No	GE	**29HZ74**	**39N370**
2.5 to 4	¾	2	Yes	GE	**39N377**	**41H801**
	¾	2	No	GE	**29HZ75**	**39N371**
4 to 6.3	1½	3	Yes	GE	**39N378**	**41H802**
	1½	3	No	GE	**29HZ76**	**39N372**
6.3 to 10	3	5	Yes	GE	**39N379**	**41H803**
	3	5	No	GE	**29HZ77**	**39N373**
9 to 13	3	7½	No	GE	**29HZ78**	**39N374**
	3	7½	Yes	GE	**39N380**	**41H804**
11 to 16	5	10	No	GE	—	**29HZ79**
	5	10	Yes	GE	—	**4LVX2**
	5	10	No	GE	**4LVX6**	**4LVU7**
14 to 20	5	10	No	GE	—	**29HZ80**
	5	10	Yes	GE	—	**4LVX3**
	5	10	No	GE	**4LVX7**	**4LVU8**
19 to 25	7½	15	Yes	GE	**4LVX8**	**4LVX4**
	7½	15	No	GE	—	**29HZ81**
	7½	15	No	GE	—	**4LVU9**
24 to 32	10	20	Yes	GE	—	**4LVX5**
	10	20	No	GE	—	**29HZ82**
	10	20	No	GE	**4LVX9**	**4LVX1**

NEMA Magnetic Motor Starters with Solid State Overload Relays

by Schneider Electric

- Class 10/20 selectable thermal protection
- 3-pole, 60/50 Hz, 600VAC max.
- Accessories and replacement parts on page 163

Full-voltage starters start and stop 3-phase AC motors. Manual push-to-test and visible trip indicator. Trip-free construction allows overload relay to trip even if reset lever is blocked or in the reset position. Overload relay has heaterless construction and adjustable full load amp setting.

Normally open holding circuit contact allows 3-wire control. Angled contacts provide high contact pressure and positive seating. Spring-assisted gravity dropout on de-energizing quickly extinguishes any arcing. UL Listed and CSA Certified.



Nonreversing, Open
No. H5173



Reversing, Open
No. H5197

NEMA Size	Amps AC	▶CHOOSE: Coil Volts	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 3R, 12 Item No.		NONREVERSING NEMA 4, 4X Item No.	REVERSING NO ENCLOSURE Item No.		REVERSING NEMA 1 Item No.	REVERSING NEMA 3R, 12 Item No.	REVERSING NEMA 4, 4X Item No.
00	9		H4844	H4843	—		—	H4846		H4845	—	—
0	18	120VAC	H5173	H5178	H5183		H5188	H5193		H5198	H4847	H4848
1	27	208VAC	H5174	H5179	H5184	*	H5189	H5194		H5199	H4849	H4850
2	45	240VAC	H5175	H5180	H5185	*	H5190	H5195		H5200	H4851	H4852
3	90	480VAC	H5176	H5181	H5186		H5191	H5196	†	H4854	H4853	H4855
4	135		H5177	H5182	H5187		H5192	H5197		H5008	H4858	H5009

** 480VAC coil not available. † 240VAC and 480VAC coil not available.*

by Schneider Electric

Type S, NEMA-Style Magnetic Motor Starters

- 600V max., 50/60 Hz

For full-voltage starting and stopping (also reversing for models indicated) of AC squirrel-cage motors. Requires an overload relay, sold separately, that provides motor overload protection. Reversing models consist of a full-voltage contactor and a Class 8536 starter that are mechanically and electrically interlocked; enclosed devices use horizontally arranged components. UL Listed and CSA Certified.

Current Range	FOR 3-PHASE MOTORS Mfr. Model	Item No.	FOR 1-PHASE MOTORS Mfr. Model	Item No.
Overload Relays				
0.40 to 0.63A	LRD04L	**19YC99**	LR3D04L	**19YC87**
0.63 to 1.00A	LRD05L	**19YD01**	LR3D05L	**19YC88**
1.00 to 1.60A	LRD06L	**19YD02**	LR3D06L	**19YC89**
1.60 to 2.50A	LRD07L	**19YD03**	LR3D07L	**19YC90**
2.50 to 4.00A	LRD08L	**19YD04**	LR3D08L	**19YC91**
4.00 to 6.00A	LRD10L	**19YD05**	LR3D10L	**19YC92**
5.50 to 8.00A	LRD12L	**19YD06**	LR3D12L	**19YC93**
7.00 to 10.0A	LRD14L	**19YD07**	LR3D14L	**19YC94**
9.00 to 13.0A	LRD16L	**19YD08**	LR3D16L	**19YC95**
12.0 to 18.0A	LRD21L	**19YD09**	LR3D21L	**19YC96**
17.0 to 24.0A	LRD22L	**19YD10**	LR3D22L	**19YC97**
23.0 to 32.0A	LRD32L	**19YD11**	LR3D32L	**19YC98**



Open



NEMA 3R, 12

NEMA Size	Amps AC	▶CHOOSE: Coil Volts	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 3R, 12 Item No.	NONREVERSING NEMA 4, 4X Item No.	REVERSING NO ENCLOSURE Item No.	REVERSING NEMA 1 Item No.	REVERSING NEMA 3R, 12 Item No.	REVERSING NEMA 4, 4X Item No.
2-Pole										
00	9	120VAC, 208VAC, 240VAC, 480VAC	**H7707**	**H7713**	—	—	—	—	—	—
		120VAC, 240VAC	—	—	—	—	**H7711**	—	—	—
0	18	120VAC, 208VAC, 240VAC, 480VAC	**H7708**	**H7714**	—	—	—	**H7717**	—	—
		120VAC	—	—	—	—	**H7710**	—	—	—
1	27	120VAC, 208VAC, 240VAC, 480VAC	**H7709**	**H7715**	—	—	—	—	—	—
		120VAC	—	—	—	—	**H7712**	**H7718**	—	—
3-Pole										
00	9	120VAC, 208VAC, 240VAC, 480VAC	**H7719**	**H7725**	—	—	—	—	—	—
		120VAC, 240VAC	—	—	—	—	**H7722**	—	—	—
		120VAC, 480VAC	—	—	—	—	—	**H7728**	—	—
0	18	120VAC, 208VAC, 240VAC, 480VAC	**H7720**	**H7726**	**H7731**	**H7735**	**H7723**	**H7729**	—	—
		120VAC	—	—	—	—	—	—	**H7733**	—
		120VAC, 240VAC	—	—	—	—	—	—	—	**H7737**
1	27	120VAC, 208VAC, 480VAC	—	—	—	—	—	**H7730**	—	—
		120VAC, 480VAC	—	—	—	—	**H7724**	—	—	—
		120VAC	—	—	—	—	—	—	**H7734**	—
		120VAC, 208VAC, 240VAC, 480VAC	**H7721**	**H7727**	**H7732**	**H7736**	—	—	—	—

by Schneider Electric

NEMA Magnetic Motor Starters with Standard Overload Relays

- Melting alloy thermal overload relays
- Class 20 thermal protection
- 2- or 3-pole, 60/50 Hz, 600VAC max.
- Thermal units sold separately, page 166
- Accessories and replacement parts on page 163

Full-voltage starters start and stop 1- and 3-phase AC motors. Manual push-to-test and visible trip indicator. Trip-free construction allows overload relay to trip even if reset lever is blocked or in the reset position.

Normally open holding circuit contact for 3-wire control. Angled contacts provide high contact pressure and positive seating. Spring-assisted gravity dropout on de-energizing contacts quickly extinguishes any arcing. UL Listed and CSA Certified.



NEMA 1
No. H5142



Open
No. H5148



NEMA 12
No. H5158

NEMA Size	▶CHOOSE: Coil Volts	NONREVERSING NO ENCLOSURE Thermal Unit Code	Item No.	NONREVERSING NEMA 1 Thermal Unit Code	Item No.	NONREVERSING NEMA 3R, 12 Thermal Unit Code	Item No.	REVERSING NO ENCLOSURE Thermal Unit Code	Item No.	REVERSING NEMA 1 Thermal Unit Code	Item No.
2-Pole											
00		B1	**H5137**	A1	**H5141**	—	—	—	—	—	—
0	120VAC	B2	**H5138**	A2	**H5142**	—	—	—	—	—	—
1	208VAC	B3	**H5139**	A3	**H5143**	—	—	—	—	—	—
1P	240VAC	B4	**H5140**	A4	**H5144**	—	—	—	—	—	—
2		—	—	A5	**H5145**	—	—	—	—	—	—
3-Pole											
00		D1	**H5146**	C1	**H5152**	—	—	D1	**H5163**	D1	**H5168**
0	120VAC	D2	**H5147**	C2	**H5153**	C2	**H5158**	D2	**H5164**	D2	**H5169**
1	208VAC	D3	**H5148**	C3	**H5154**	C3	**H5159**	D3	**H5165**	D3	**H5170**
2	240VAC	D4	**H5149**	C4	**H5155**	C4	**H5160**	D4	**H5166**	D4	**H5171**
3	480VAC	D5	**H5150**	C5	**H5156**	C5	**H5161**	D5	**H5167**	D5	**H5172**
4		D6	**H5151**	C6	**H5157**	C6	**H5162**	—	—	—	—



Contactor NEMA Size 3



Motor Starter NEMA Size 0

NEMA Magnetic Contactors and Motor Starters

- 3 pole
- Include 1NO aux. contact

UL Listed.

CONTACTORS

For use with resistance heating and capacitor circuits; may be used to control AC motors where overload protection is provided separately.

MOTOR STARTERS

Protect against motor overload on 3-phase motor circuits. Manual weld check. Toolless disassembly. Class 20 overload protection with visible trip indicator and manual reset. Motor starters without electronic overload relays require 3 heaters, see below for selection.

NEMA Size	Amps AC	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	W	H	D	Mfr. Model	Item No.
Nonreversing Contactors, No Enclosure									
0	18	120VAC; 240VAC; 480VAC	3	5	3.94	4.5	3.1	CR305B00	**H2444**
1	27		7½	10	3.94	4.5	3.1	CR305C00	**H2445**
2	45		15	25	5.5	6.62	5.5	CR305D00	**H2446**
3	90		30	50	6.5	8.81	6.7	CR305E00	**H2447**
4	135		50	100	6.5	8.81	6.7	CR305F00	**H2448**
Nonreversing Motor Starters, No Enclosure									
00	9	120VAC; 240VAC; 480VAC	1½	2	3.71	7.8	3.94	CR306A00	**H2440**
0	18		3	5	3.71	7.8	3.94	CR306B00	**H2441**
1	27		7½	10	3.71	7.8	3.94	CR306C00	**H2442**
2	45		15	25	5.44	9.12	5.50	CR306D00	**H2443**
3	90		30	50	6.62	11.62	6.50	CR306E00	**H2423**
4	135		50	100	6.62	11.62	6.50	CR306F00	**H2424**
Nonreversing Motor Starters, Enclosed									
00	9	120VAC; 240VAC; 480VAC	1½	2	6	10	4.63	CR306A10	**H2429**
0	18		3	5	6	10	4.63	CR306B10	**H2430**
1	27		7½	10	6	10	4.63	CR306C10	**H2431**
2	45		15	25	7.38	13.25	6.13	CR306D10	**H2432**
3	90		30	50	8.75	20.25	7.31	CR306E10	**H2433**
4	135		50	100	8.75	25	7.31	CR306F10	**H2434**
5	270		100	200	17	45.12	11.00	CR306G10	**H2435**
Nonreversing Motor Starters with Electronic Overload Relay, No Enclosure									
1	6.5 to 13.5	120VAC; 240VAC; 480VAC	1½	10	3.71	7	3.94	CR306C00 00XAAAAG	**H2425**
2	25 to 50		15	25	5.44	9.12	5.50	CR306D00 00XAAAAJ	**H2426**
3	35 to 70		30	50	6.62	11.62	6.50	CR306E00 00XAAAAL	**H2427**
4	135		50	100	6.62	11.62	6.50	CR306F00 00XAAAAM	**H2428**
Nonreversing Motor Starters with Electronic Overload Relay, Enclosed									
1	6.5 to 13.5	120VAC; 240VAC; 480VAC	1½	10	3.71	7	3.94	CR306C10 00XAAAAG	**H2436**
Reversing Motor Starters, Enclosed									
0	18	120VAC; 240VAC; 480VAC	3	5	4.94	14	4.59	CR309B10	**H2438**
1	27		7½	10	4.94	14	4.59	CR309C10	**H2439**
2 Speed Motor Starters, Enclosed									
1	27	120VAC; 240VAC; 480VAC	7½	10	8.88	7	3.94	CR309C10 AKA	**H2437**

Motor Starter Heaters and Accessories

- 3-pole starters require 3 heaters (thermal units)
- Amps shown are for motors with 1.15 to 1.25 service factor



Heater



Replacement Coil



Auxiliary Contact Adder Block

Full-Load Amps @ 3-Phase NEMA Size 3 Regular Encl.	NEMA Size 3 Large Encl.	NEMA Size 4 Regular Encl.	NEMA Size 4 Large Encl.	Mfr. Model	Item No.
Heaters					
31.30	31.8	32	32.2	CR123F357B	**3HYX9**
33.30	33.9	34.2	34	CR123F395B	**3HYY1**
34.30	37.6	36.7	36.8	CR123F430B	**3HYY2**
40.90	41.9	43.9	44.6	CR123F487B	**3HYY3**
44.70	47.7	46.6	48.4	CR123F567B	**3HYY4**
51.00	52.1	52.6	53.9	CR123F614B	**3HYY5**
52.00	55.8	55.6	57.4	CR123F658B	**3HYY6**
55.40	59.7	58.7	60	CR123F719B	**3HYY7**
63.30	68.1	67.1	69.5	CR123F772B	**3HYY8**
66.10	71.5	70.6	71.7	CR123F848B	**3HYY9**
73.50	78.2	76.3	79.9	CR123F914B	**3HYZ1**
82.20	87.5	88.7	92.3	CR123F104C	**3HYW6**
90	90	93.4	97	CR123F114C	**3HYW7**
—	—	102	108	CR123F118C	**3HYW8**
—	—	110	118	CR123F133C	**3HYW9**
—	—	122	131	CR123F149C	**3HYX1**
—	—	131	135	CR123F161C	**3HYX2**
—	—	135	—	CR123F174C	**3HYX3**
18.40	19.3	—	—	CR123F233B	**3HYX4**
21.10	22.1	—	—	CR123F243B	**3HYX5**
22.10	23.4	—	—	CR123F270B	**3HYX6**
26.10	27	—	—	CR123F300B	**3HYX7**
28.00	29.1	—	—	CR123F327B	**3HYX8**

Starter Size	120VAC Item No.	277VAC Item No.	240VAC Item No.	480VAC Item No.
Replacement Coils				
00, 0, 1	**3AGH5**	—	—	—
2	**3AGH8**	**6AMR0**	**3AGH9**	**3HYN1**
00, 1	—	**6AMP8**	**3AGH6**	**3AGH7**
3	**3HYN2**	**6AMX3**	**3HYN3**	**3HYN4**
4	**3HYN5**	**6AMX5**	**3HYN6**	**3HYN7**
5	**6AMX6**	—	—	**6AMX8**

No. of NC Aux. Contacts	No. of NO Aux. Contacts	Starter Size	Mfr. Model	Item No.
NEMA Adder Auxiliary Contact Blocks				
0	1	00 to 4	CR305X100D	**3HWN3**
1	0	00 to 4	CR305X100E	**3HWN4**
NEMA Auxiliary Contact Blocks				
1	1	00, 0, 1	CR305X100C	**3HWN2**
1	1	2	CR305X200C	**3HWN5**
1	1	3, 4	CR305X300C	**3HWN6**

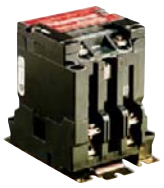
Legend	Starter Size	Mfr. Model	Item No.
Push Button Kits			
Start/Stop/Momentary Contact	00 to 1	CR305X120N	**3HYP1**
Start/Stop/Momentary Contact	2	CR305X220N	**6AND1**
Start/Stop/Momentary Contact	3, 4	CR305X320B	**6AND5**
Start/Stop/Momentary Contact	5	CR305X520B	**6AND9**
Selector Switch Kits			
Hand/Off/Auto	00 to 1	CR305X130N	**3HYP2**
Hand/Off/Auto	2	CR305X230N	**6AND3**
Hand/Off/Auto	3, 4	CR305X330B	**6AND6**

NEMA Size	Current Range	Mfr. Model	Item No.
Overload Relays			
00, 0, 1	—	CR324C360F	**6ANH5**
00, 0, 1	—	CR324C660F	**6ANH6**
NEMA Overload Relays			
0, 1	6.5 to 13.6A	CR324CXGS	**6ANH7**
0, 1	13.0 to 27.0A	CR324CXHS	**6ANH8**
Mount Adapters			
—	—	CR324CXPMA	**6ANH9**

Full-Load Amps @ 3-Phase NEMA Size 00, 0, or 1 Regular Encl.	NEMA Size 00, 0, or 1 Large Encl.	NEMA Size 2 Regular Encl.	NEMA Size 2 Large Encl.	Mfr. Model	Item No.
Heaters					
5.77	5.91	5.48 to 5.85	5.85	CR123C630A	**3HYW1**
6.35	6.47	5.86 to 6.47	6.47	CR123C695A	**3HYW2**
6.92	7.20	6.48 to 7.35	7.35	CR123C778A	**3HYW3**
7.99	8.22	7.36 to 8.06	8.06	CR123C867A	**3HYW4**
8.47	8.72	8.07 to 9.03	9.03	CR123C955A	**3HYW5**
9.19	9.67	9.04 to 9.61	9.61	CR123C104B	**3HYR1**
10.00	10.40	9.62 to 10.5	10.50	CR123C113B	**3HYR3**
10.70	11.00	10.6 to 11.6	11.60	CR123C125B	**3HYR5**
12.00	12.40	11.7 to 12.5	12.50	CR123C137B	**3HYR7**
12.9	13.2	12.6 a 13.6	13.6	CR123C151B	**3HYR9**
15.10	15.40	13.7 a 16.7	16.70	CR123C163B	**3HYT2**
16.30	17.10	16.8 to 17.9	17.90	CR123C180B	**3HYT3**
17.90	18.10	18.0 to 18.7	18.70	CR123C198B	**3HYT6**
19.70	20.00	18.8 to 20.4	20.40	CR123C214B	**3HYT7**
21.20	21.50	20.5 to 22.7	22.70	CR123C228B	**3HYT9**
22.30	22.50	22.8 to 24.7	24.70	CR123C250B	**3HYU2**
23.50	23.80	24.8 to 26.3	26.30	CR123C273B	**3HYU4**
25.50	26.30	26.4 to 29.5	29.50	CR123C303B	**3HYU6**
27.00	27.00	29.6 to 32.5	32.50	CR123C330B	**3HYU8**
—	—	32.6 to 36.7	36.70	CR123C366B	**3HYV1**
—	—	36.8 to 41.9	41.90	CR123C400B	**3HYV3**
—	—	42.0 to 43.2	43.20	CR123C440B	**3HYV5**
—	—	43.3 to 45.0	45.00	CR123C460B	**3HYV6**
0.43	0.45	—	—	CR123C054A	**3HYP3**
0.48	0.49	—	—	CR123C060A	**3HYP4**
0.53	0.53	—	—	CR123C066A	**3HYP5**
0.58	0.59	—	—	CR123C071A	**3HYP6**
0.64	0.65	—	—	CR123C078A	**3HYP7**
0.74	0.76	—	—	CR123C087A	**3HYP8**
0.84	0.84	—	—	CR123C097A	**3HYP9**
0.92	0.93	—	—	CR123C109A	**3HYR2**
1.02	1.04	—	—	CR123C118A	**3HYR4**
1.10	1.15	—	—	CR123C131A	**3HYR6**
1.23	1.27	—	—	CR123C148A	**3HYR8**
1.38	1.39	—	—	CR123C163A	**3HYT1**
1.49	1.55	—	—	CR123C184A	**3HYT4**
1.67	1.73	—	—	CR123C196A	**3HYT5**
1.79	1.89	—	—	CR123C220A	**3HYT8**
1.98	2.05	—	—	CR123C239A	**3HYU1**
2.24	2.28	—	—	CR123C268A	**3HYU3**
2.43	2.47	—	—	CR123C301A	**3HYU5**
2.75	2.79	—	—	CR123C326A	**3HYU7**
3.25	3.31	—	—	CR123C356A	**3HYU9**
3.43	3.70	—	—	CR123C379A	**3HYV2**
4.03	4.06	—	—	CR123C419A	**3HYV4**
4.43	4.47	—	—	CR123C466A	**3HYV7**
4.94	4.95	—	—	CR123C526A	**3HYV8**
5.36	5.49	—	—	CR123C592A	**3HYV9**



Electrically Held Type L



Electrically Held Type S



Mechanically Held Type LX

Multipole Lighting Contactors

by Schneider Electric

Open-type contactors have 120V coils operable on 50 Hz at 110V, 277V at 60 Hz. UL Listed and CSA Certified.

ELECTRICALLY HELD TYPE L AND MECHANICALLY HELD TYPE LX

Field-convertible contacts have normally open and normally closed indicators. Max. 8 normally closed contacts. Silver cadmium oxide double-break contacts.

ELECTRICALLY HELD TYPE S

Feature mixed load ratings (lighting and motors), factory-wired controls, and clearly marked termination points.

No. of Poles	Full Load Amps	▶CHOOSE: Coil Volts	H	W	D	Mfr. Model	Item No.
Electrically Held Type L							
2	30	120VAC 277VAC	5.00"	2.88"	3.12"	8903LO20	**H5201**
3	30		5.00"	2.88"	3.12"	8903LO30	**H5202**
4	30		5.00"	2.88"	3.12"	8903LO40	**H5203**
6	30		5.00"	4.25"	3.12"	8903LO60	**H5204**
8	30		5.00"	5.63"	3.12"	8903LO80	**H5205**
10	30		5.00"	5.63"	3.12"	8903LO1000	**H5206**
12	30		5.00"	5.63"	3.12"	8903LO1200	**H5207**
Electrically Held Type S							
2	30	120VAC 277VAC	4.34"	3.22"	4.22"	8903SMO1	**H5212**
2	60		5.33"	4.31"	4.94"	8903SPO1	**H5213**
2	100		7.09"	5.45"	6.50"	8903SQO1	**H5214**
3	30		4.34"	3.22"	4.22"	8903SMO2	**H5215**
3	60		5.33"	4.31"	4.94"	8903SPO2	**H5216**
3	100		7.09"	5.45"	6.50"	8903SQO2	**H5217**
4	30		4.34"	4.25"	4.22"	8903SMO3	**H5218**
4	60		6.22"	5.61"	4.94"	8903SPO3	**H5219**
4	100		7.26"	9.75"	6.50"	8903SQO3	**H5220**
Mechanically Held Type LX							
4	30	120VAC 277VAC	8.81"	2.88"	3.25"	8903LXO40	**H5208**
6	30		8.81"	4.25"	3.25"	8903LXO60	**H5209**
8	30		8.81"	5.63"	3.25"	8903LXO80	**H5210**
12	30		8.81"	5.63"	3.25"	8903LXO1200	**H5211**
Replacement Coils, 120VAC							
L Electrically Held		120VAC	—	—	—	9998L44	**2FK33**
SM/SP Electrically Held Unlatch			—	—	—	2959S13W30B	**2FJ89**
LX Mechanically Held Unlatch			—	—	—	9998LX44	**2FK39**



Open 4-Pole
No. H5222



Enclosed 12-Pole
No. H5432

Lighting Contactors

- Rated 30A inductive and resistive
- 7.4"H x 4.2"W x 3.9"D
- Electrically held

Design allows additional power poles to be added to a max. of six 1- or 2-pole blocks. Poles are supplied in the NO position on contactor. Up to 4 power pole blocks are field convertible to NC. UL Listed. Mechanically held contactors have built-in control module delays to minimize excessive operation from faulty control devices.

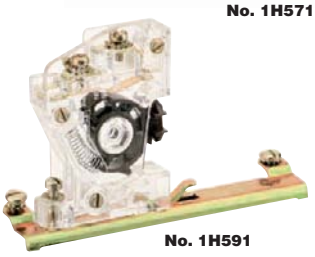
No. of Poles	▶CHOOSE: Coil Volts	Mfr. Model	NO ENCLOSURE Item No.	NEMA 1 Item No.
2	120VAC 277VAC	CR463L20A	**H5221**	**H5427**
4		CR463L40A	**H5222**	**H5428**
6		CR463L60A	**H5223**	**H5429**
8		CR463L80A	**H5224**	**H5430**
10		CR463LB0A	**H5225**	**H5431**
12		CR463LD0A	**H5226**	**H5432**

Type	Mfr. Model	Item No.
Power Poles, 30A		
	CR460XP31	**3HXY2**
2 Pole	CR460XP32	**3HXY3**
Auxiliary Contacts		
1	CR460XB1	**3HWN7**
2	CR460XB2	**3HWN8**

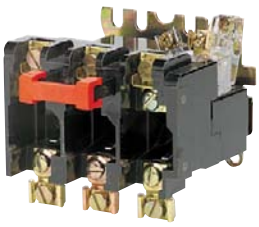
Type	Mfr. Model	Item No.
Enclosure		
NEMA 1	CR460XE1B	**3HXZ5**
Coil Kit		
115 to 120V	CR460XCJ	**3HYN8**
277V	CR460XCN	**3HYN9**



No. 1H571



No. 1H591



No. 2BZ24



No. 2FM51



No. 5F593

by Schneider Electric

NEMA Motor Starter and Contactor Accessories and Replacement Parts

Description	Mfr. Model	Item No.
Contact Kits, Includes Movable and Stationary Contacts		
3-Pole, Fits Size 00	9998SJ1	**1H567**
3-Pole, Fits Size 0	9998SL2	**1H569**
3-Pole, Fits Size 1	9998SL3	**1H570**
3-Pole, Fits Size 2	9998SL4	**1H571**
3-Pole, Fits Size 3	9998SL7	**1H572**
3-Pole, Fits Size 4	9998SL9	**1H573**
3-Pole, Fits Size 5	9998SL11	**1H568**
Auxiliary Contacts		
1 NO, Fits Sizes 00 to 5	9999SX6	**1H591**
1 NC, Fits Sizes 00 to 5	9999SX7	**1H592**
1 NO/1 NC, Fits Sizes 00 to 5	9999SX8	**1H593**
Internal Nonconvertible Contacts		
1 NO, Fits Sizes 00 to 2	9999SX11	**1H589**
1 NC, Fits Sizes 00 to 2	9999SX12	**1H590**
Transient Suppression Modules, RC Circuit Suppresses Coil Transients up to Approx. 240V		
For Type S 120V Coils Only, Fits Sizes 00 to 2	9999ST1	**1H587**
For Type S 120V Coils Only, Fits Sizes 3 to 5	9999ST2	**1H588**
Separately Mounted Overload Relay, Melting Alloy Design with Trip-Free Reset		
3-Pole, Fits Sizes 00 to 1, 25A Max.	9065SEO5	**2BZ24**
Replacement Overload Relays for Class 8536 Starters		
3-Pole, Fits Sizes 00 to 1	9065SDO5	**2FK24**
3-Pole, Fits Size 2	9065SDO8	**2FK25**
External Overload Reset Mechanism		
NEMA 1 or 12, Fits Sizes 00 to 4 and Enclosures up to 9¼" D	9066RA1	**2CF48**
Control Circuit Fuse Holders, 600V Max.		
Single, Series KTK Fuse, Fits All Sizes	9999SF3	**1H577**
Two, Series KTK Fuse, Fits All Sizes	9999SF4	**1H578**
Push-Button Kits		
Start/Stop, NEMA 1, Fits Sizes 00 to 3	9999SA2	**2FM51**
Start/Stop, NEMA 1/3R/12, Fits Sizes 00 to 7	9999SA3	**1H574**
On/Off, NEMA 1, Fits Sizes 00 to 4	9999SA10	**2CC02**
Hand/Off/Auto Selector Switches		
NEMA 1, Fits Sizes 00 to 3	9999SC2	**1H575**
NEMA 1/3R/4/12, Fits All Sizes	9999SC8	**1H576**
On/Off Selector Switch		
NEMA 1, Fits Sizes 00 to 4	9999SC22	**2CC08**
Red Pilot Lights, 600V Max.		
NEMA 1, Fits Sizes 00 to 1 and 1P	9999SP2R	**1H583**
NEMA 1, Fits Size 2	9999SP3R	**1H584**
Green Lens (for above)	9999SPG1	**1H586**
Red Pilot Light, 120VAC		
NEMA 3R/12, Fits Sizes 0 to 7	9999SP28R	**1H582**
Motor Logic™ Accessories (Type 9065)		
DIN Adapter Kit, Fits All Sizes	9999DA01	**5F593**
Remote Reset, Fits Sizes 0 to 4, 120VAC Signal up to 150 ft.	9999RR04	**5F596**
Isolated Auxiliary Contact, Fits Sizes 0 to 7, NO or NC, A600 Rated	9999AC04	**5F592**
Line and Load Lug Kit, Fits NEMA Size 0 and 1	9999LL0	**5F595**
Lug Extender Kit, Fits Sizes 0 to 1	9999LB0	**5F594**



No. 21AM81

SQUARE D by Schneider Electric

Motor Logic™ Overload Relays

- 3-phase, 60/50 Hz, 600VAC
- 3:1 current adjustment range
- Class 10/20 selectable thermal protection

Heaterless construction with adjustable full-load amps. Relays are protected against phase loss and phase imbalance. Mount separately or use to retrofit an existing Square D Type S starter. Select overload relay by full load amp current range.

NEMA Size	Current Range	Mfr. Model	Item No.
For Retrofit of Square D Type S Motor Starters or Separate Mounting			
00B	1.5 to 4.5A	9065SFB20	**21TV77**
00C	3.0 to 9.0A	9065SFC20	**21TV78**
0	6.0 to 18.0A	9065SF020	**21AM84**
1	9.0 to 27.0A	9065SF120	**21AM85**
2	15.0 to 45.0A	9065SF220	**21AM86**
3	30.0 to 90.0A	9065SF320	**21AM87**
4	45.0 to 135.0A	9065SF420	**21TV76**
For Retrofit of Square D Type S Motor Starters			
2	15.0 to 45.0A	9065ST220	**21AM81**
3	30.0 to 90.0A	9065ST320	**21AM82**
4	45.0 to 135.0A	9065ST420	**21AM83**


No. 1H424

Replacement Magnetic Coils

SQUARE D by Schneider Electric

Starter Size	For Use With	Mfr. Model	24VAC Item No.	120VAC Item No.	208VAC Item No.	240VAC Item No.	480VAC Item No.
00	SA Series B	9998SAC	**1H561**	**1H562**	**1H563**	**1H564**	**1H565**
00, 1	SA Series A, SB, SC, SM	31041400	**1H423**	—	**1H425**	**1H426**	**1H427**
00, 0, 1	SA Series A, SB, SC, SM	31041400	—	**1H424**	—	—	—
2	SD and SP	31063409	**1H430**	**1H431**	**1H432**	**1H433**	**1H434**
3	SE and SQ	31074400	—	**5B609**	—	—	**1H439**
3, 4	SE, SF, and SV	31091400	—	**1H441**	—	—	—
4	SE, SF, and SV	31091400	—	—	**1H442**	**2MNG8**	—
5	SG and SX	31096400	—	**1H446**	**2MNG9**	**2MNH1**	**1H449**


Open, Nonreversing


Open, Reversing


Enclosed NEMA 1


Enclosed NEMA 3R


Enclosed NEMA 4/4X


Enclosed NEMA 12

EATON

NEMA Motor Starters

- Eaton Freedom Series NEMA starter with C440 electronic overload
- Selectable Trip Class 10A, 10, 20 or 30
- 3-pole with 1NO aux. contact

UL Listed and CSA Certified. Accessories and replacement parts are available on Grainger.com®.

NEMA Size	Overload Relay Amp Setting	▶CHOOSE: Coil Volts	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 3R Item No.	NONREVERSING NEMA 4X Item No.	NONREVERSING NEMA 12 Item No.	REVERSING NO ENCLOSURE Item No.
00	0.33 to 1.65A	24VAC 120VAC 208VAC 240VAC 480VAC	**J0884**	**J0901**	**J0905**	**J0909**	**J0913**	**J0893**
00	1 to 5A		**H0472**	**H0484**	**J0906**	**H0498**	**H0505**	**H0478**
00	4 to 20A		**J0883**	**J0902**	**H0491**	**J0910**	**J0914**	**J0892**
0	0.33 to 1.65A		**J0886**	—	—	—	—	**J0895**
0	1 to 5A		**J0885**	**J0903**	**J0907**	**J0911**	**J0915**	**J0894**
0	4 to 20A		**H0473**	**H0485**	**H0492**	**H0499**	**H0506**	**H0479**
1	0.33 to 1.65A		**J0889**	—	—	—	—	**J0898**
1	1 to 5A		**J0887**	—	—	—	—	**J0896**
1	4 to 20A		**H0474**	**H0486**	**H0493**	**J0912**	**H0507**	**J0897**
1	9 to 45A		**J0888**	**J0904**	**J0908**	**H0500**	**J0916**	**H0480**
2	1 to 5A		**J0890**	—	—	—	—	**J0899**
2	4 to 20A		**J0891**	—	—	—	—	**J0900**
2	9 to 45A		**H0475**	**H0487**	**H0494**	**H0501**	**H0508**	**H0481**
3	20 to 100A		**H0476**	**H0488**	**H0495**	**H0502**	**H0509**	**H0482**
4	30 to 150A		**H3831**	**H0489**	**H0496**	**H0503**	**H0510**	**H3832**
5	60 to 300A		**H0477**	**H0490**	**H0497**	**H0504**	**H0511**	**H0483**


Open, Nonreversing


Open, Reversing

Enclosed NEMA 1



Enclosed NEMA 4/4X



Enclosed NEMA 12



SIEMENS

NEMA Motor Starters

- 600 VAC
- Selectable Trip Class 5, 10, 20 or 30
- 3-pole with 1NO aux. contact

UL Listed and CSA Certified.

NEMA Size	Overload Relay Amp Setting	▶CHOOSE: Coil Volts*	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 4, 4X Item No.	NONREVERSING NEMA 12 Item No.	REVERSING NO ENCLOSURE Item No.
00	0.25 to 1A	24VAC 120 to 240VAC 120VAC 208VAC 240VAC 480VAC	**J0917**	**J0926**	—	—	**H3838**
00	0.75 to 3.4A		**J0918**	**J0927**	—	—	**J0954**
00	3 to 12A		**H0526**	**H0535**	—	—	**J0955**
0	0.25 to 1A		**J0919**	**J0928**	**J0943**	**J0935**	**J0951**
0	0.75 to 3.4A		**H0527**	**J0929**	**J0944**	**J0936**	**J0952**
0	3 to 12A		**J0920**	**H0536**	**H3776**	**H3767**	**J0953**
0	5.50 to 22A		**J0921**	**J0930**	**J0945**	**J0937**	**H3837**
1	0.25 to 1A		**J0922**	**J0931**	**J0946**	**J0938**	**J0956**
1	0.75 to 3.4A		**J0923**	**J0932**	**J0947**	**J0939**	**J0957**
1	3 to 12A		**J0924**	**J0933**	**J0948**	**J0940**	**J0958**
1	5.50 to 22A		**H0528**	**J0934**	**J0949**	**J0941**	**J0959**
1	10 to 40A		**J0925**	**H0537**	**J0950**	**J0942**	**H3839**
1¾	10 to 40A		**H0529**	**H0538**	**H3778**	**H3769**	**H3840**
2	13 to 52A		**H0530**	**H0539**	**H3779**	**H3770**	**H3841**
2½	25 to 100A		**H0531**	**H0540**	**H3780**	**H3771**	**H3842**
3	25 to 100A		**H0532**	**H0541**	**H3781**	**H3772**	**H3843**
3½	50 to 200A		**H0533**	**H0542**	**H3782**	**H3773**	**H3844**
4	50 to 200A		**H0534**	**H0543**	**H3783**	**H3774**	**H3845**
5	55 to 250A		—	**H3766** †	—	**H3775** †	—

** 24VAC coils only available on enclosed versions. † Dual voltage coils not available in NEMA Size 5.*

Enclosure NEMA Rating	NEMA Size M-0 1 HP @ 120VAC, 2 HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1 2 HP @ 120VAC, 3 HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1P 3 HP @ 120VAC, 5 HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.
1-Phase, 2 Pole									
No Enclosure	J1	2510MBO1	**2BW14**	K1	2510MCO1	**2PYE1**	L1	2510MCO2	**2PYE2**
1	J2	2510MBG1	**1H411**	K2	2510MCG1	**1H415**	L2	2510MCG2	**1H416**
12	J2	2510MBA1	**2BW07**	K2	2510MCA1	**2BW22**	L2	2510MCA2	**2BW23**
4, 4X	J2	2510MBW1	**2PYD9**	—	—	—	L2	2510MCW2	**2PYE8**
7, 9	J2	2510MBR1	**2PYD8**	K2	2510MCR1	**2PYE3**	L2	2510MCR2	**2PYE4**
1-Phase, 2 Pole, Stainless Steel Enclosure									
4, 4X	J2	2510MBW11	**2BW20**	K2	2510MCW11	**2PYE6**	L2	2510MCW12	**2PYE7**

Enclosure NEMA Rating	NEMA Size M-0 3 HP @ 240VAC, 5 HP @ 480VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1 7½ HP @ 240VAC, 10 HP @ 480VAC Thermal Unit Code	Mfr. Model	Item No.
3-Phase, 3 Pole						
No Enclosure	M1	2510MBO2	**1H413**	N1	2510MCO3	**2BW31**
1	M2	2510MBG2	**1H412**	N2	2510MCG3	**1H417**
12	M2	2510MBA2	**1H410**	N2	2510MCA3	**2BW25**
4, 4X	M2	2510MBW2	**1H414** *	N2	2510MCW3	**2BW36** *
7, 9	M2	2510MBR2	**2BW18**	N2	2510MCR3	**2PYE5**
3-Phase, 3 Pole, Stainless Steel Enclosure						
4, 4X	M2	2510MBW12	**2BW21**	N2	2510MCW13	**2BW35**

Description	Mfr. Model	Item No.
Internal Lever for use with Type M Integral HP in NEMA 4, 4X, 7, 9, and 12 Enclosures	9998IL1	**1H418**
Replacement Contacts For 2- or 3-Pole M-0	9998ML1	**1H559**
Replacement Contacts For 2- or 3-Pole M-1 and M-1P	9998ML2	**1H560**

**** Toggle switch operator.***



Open
No. 1H413



NEMA 12
No. 1H410



NEMA 4X
No. 1H414

NEMA Manual Motor Starters

SQUARE D by Schneider Electric

- 600VAC max.; 250VDC max.
- Required thermal units sold separately, see page 166
- Auxiliary contacts Nos. 1H589 and 1H590 available on page 163

Push-button motor starters provide On/Off operation and overload protection for small 1-phase, 3-phase, or DC motors. For use on small machine tools, pumps, fans, and conveyors. UL Listed.

Note: NEMA Type 12 enclosures can be converted for 3R outdoor use by drilling two ⅛" holes in the bottom.

EATON

Manual Motor Starters

NEMA manual starters provide control and overload protection to single- and 3-phase motors. Feature straight-through wiring and field-mounted auxiliary contacts. Come standard with a lockout device to lock motor in Off position. NEMA rated 1, 4, 7, 9, and 12.



No. 11Z488



No. 11Z490



No. 11Z492



No. 11Z496



No. 12M046

NEMA Size	HP @ 3-Phase 240V	HP @ 3-Phase 480V	No Enclosure Mfr. Model	No Enclosure Item No.	NEMA 1 Mfr. Model	NEMA 1 Item No.	NEMA 4 Mfr. Model	NEMA 4 Item No.	NEMA 7D, 9E, 9F, 9G Mfr. Model	NEMA 7D, 9E, 9F, 9G Item No.	NEMA 12 Mfr. Model	NEMA 12 Item No.
Toggle Operator												
M-0	2	5	B100M0C	**11Z488**	B100S0C	**11Z490**	B100W0C	**11Z492**	B100U0C	**11Z494**	B100J0C	**11Z496**
M-1	3	10	B100M1C	**11Z489**	B100S1C	**11Z491**	B100W1C	**11Z493**	B100U1C	**11Z495**	B100J1C	**11Z497**
Push Button Operator												
M-0	2	5	B100M0CA	**12M044**	B100S0CA	**12M046**	—	—	—	—	—	—
M-1	3	10	B100M1CA	**12M045**	B100S1CA	**12M047**	—	—	—	—	—	—

Description	Mfr. Model	Item No.
Accessories		
Auxiliary Contact, 1NO	B1A	**12M048**
Auxiliary Contact, 1NC	B1B	**12M049**
Red Pilot Light, 120VAC	LK-21	**12M050**
Red Pilot Light, 208-240VAC	LK-22	**12M051**
Red Pilot Light, 480-600VAC	LK-26	**12M052**

Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.
Thermal Units			1.05 to 1.14	FH16	**12M066**	4.04 to 4.40	FH30	**12M080**	13.60 to 14.90	FH44	**12M094**			
0.28 to 0.29	FH03	**12M053**	1.15 to 1.25	FH17	**12M067**	4.41 to 4.81	FH31	**12M081**	15.00 to 16.00	FH45	**12M095**			
0.30 to 0.33	FH04	**12M054**	1.26 to 1.39	FH18	**12M068**	4.82 to 5.26	FH32	**12M082**	16.10 to 17.10	FH46	**12M096**			
0.34 to 0.36	FH05	**12M055**	1.40 to 1.54	FH19	**12M069**	5.27 to 5.74	FH33	**12M083**	17.20 to 18.30	FH47	**12M097**			
0.37 to 0.40	FH06	**12M056**	1.55 to 1.71	FH20	**12M070**	5.75 to 6.26	FH34	**12M084**	18.40 to 19.70	FH48	**12M098**			
0.41 to 0.45	FH07	**12M057**	1.72 to 1.89	FH21	**12M071**	6.27 to 6.83	FH35	**12M085**	19.80 to 21.20	FH49	**12M099**			
0.46 to 0.50	FH08	**12M058**	1.90 to 2.10	FH22	**12M072**	6.84 to 7.45	FH36	**12M086**	21.30 to 22.80	FH50	**12M101**			
0.51 to 0.56	FH09	**12M059**	2.11 to 2.32	FH23	**12M073**	7.46 to 8.11	FH37	**12M087**	22.90 to 24.50	FH51	**12M102**			
0.57 to 0.63	FH10	**12M060**	2.33 to 2.54	FH24	**12M074**	8.12 to 8.81	FH38	**12M088**	24.60 to 26.40	FH52	**12M103**			
0.64 to 0.70	FH11	**12M061**	2.55 to 2.79	FH25	**12M075**	8.82 to 9.58	FH39	**12M089**	26.50 to 28.50	FH53	**12M104**			
0.71 to 0.78	FH12	**12M062**	2.80 to 3.07	FH26	**12M076**	9.59 to 10.40	FH40	**12M090**	28.60 to 30.80	FH54	**12M105**			
0.79 to 0.86	FH13	**12M063**	3.08 to 3.36	FH27	**12M077**	10.41 to 11.30	FH41	**12M091**	30.90 to 33.30	FH55	**12M106**			
0.87 to 0.95	FH14	**12M064**	3.37 to 3.68	FH28	**12M078**	11.40 to 12.20	FH42	**12M092**	33.40 to 36.00	FH56	**12M107**			
0.96 to 1.04	FH15	**12M065**	3.69 to 4.03	FH29	**12M079**	12.30 to 13.50	FH43	**12M093**	36.10 to 38.90	FH57	**12M108**			

NEMA Fractional Horsepower Manual Starters

SQUARE D by Schneider Electric

- 1-pole 277VAC max.; 2-pole 277VAC/230VDC max.
- Required thermal units sold separately

Provide overload protection and manual On/Off control for small motors. Toggle-operated fractional HP starter for single-phase motors up to 1 HP. 2-pole starters can also be used with DC motors to ¾ HP. Manual reset.

Binder head screw terminals are suitable for #10 or smaller copper wire and are accessible from the front. For use in fans, conveyors, pumps, and small machine tools.





No. 1H385

Amps AC	Enclosure NEMA Rating	Operator	Pilot Light	Description/ Special Features	H	W	D	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.
Manual Motor Starter											
16	1	Toggle	No	—	2.75"	4.25"	2.44"	2510FG1	**1H385**	2510FG2	**1H387**
16	1	Toggle	Red: On	—	2.75"	4.25"	2.44"	2510FG1P	**1H386**	2510FG2P	**1H388**
16	No Enclosure	Toggle	No	Stainless Steel Flush Plate	2.34"	4.12"	1.06"	2510FS1	**1H396**	2510FS2	**1H397**
16	No Enclosure	Toggle	No	—	4.12"	1.69"	1.59"	2510FO1	**1H392**	2510FO2	**1H393**
16	1	Toggle	No	Handle Guard Lock-Off	2.88"	4.25"	2.44"	2510FG5	**1H389**	2510FG6	**1H390**
16	4	Rocker	No	Handle Guard Lock-Off	4.56"	4.25"	2.75"	2510FW1	**1H398**	2510FW2	**1H399**
16	7, 9	Rocker	No	Handle Guard Lock-Off	4.38"	6.38"	3.94"	2510FR1	**1H394**	2510FR2	**1H395**

Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.
Thermal Units, 1 Required			1.05 to 1.16	A1.25	**5B629**	2.76 to 2.84	A3.61	**5B650**	6.80 to 7.57	A9.85	**5B661**
0.41 to 0.44	A.49	**5B619**	1.17 to 1.29	A1.39	**5B630**	2.85 to 3.06	A3.95	**5B651**	7.58 to 8.15	A11.0	**5B636**
0.45 to 0.49	A.54	**5B620**	1.30 to 1.37	A1.54	**5B631**	3.07 to 3.45	A4.32	**5B652**	8.16 to 8.98	A11.9	**5B637**
0.50 to 0.53	A.59	**5B621**	1.38 to 1.47	A1.63	**5B632**	3.46 to 3.70	A4.79	**5B653**	8.99 to 9.67	A13.2	**5B638**
0.54 to 0.58	A.65	**5B622**	1.48 to 1.56	A1.75	**5B633**	3.71 to 4.07	A5.30	**5B654**	9.68 to 9.95	A14.1	**5B639**
0.59 to 0.65	A.71	**5B623**	1.57 to 1.65	A1.86	**5B634**	4.08 to 4.32	A5.78	**5B655**	9.96 to 10.80	A14.8	**5B640**
0.66 to 0.71	A.78	**5B624**	1.66 to 1.79	A1.99	**5B635**	4.33 to 4.90	A6.20	**5B656**	10.90 to 12.10	A16.2	**5B641**
0.72 to 0.78	A.86	**5B625**	1.80 to 1.95	A2.15	**5B644**	4.91 to 5.35	A6.99	**5B657**	12.20 to 13.10	A17.9	**5B642**
0.79 to 0.85	A.95	**5B626**	1.96 to 2.15	A2.31	**5B645**	5.36 to 5.85	A7.65	**5B658**	13.20 to 13.90	A19.8	**5B643**
0.86 to 0.96	A1.02	**5B627**	2.16 to 2.38	A2.57	**5B646**	5.86 to 6.41	A8.38	**5B659**	14.00 to 15.00	A21.3	**5B648**
0.97 to 1.04	A1.16	**5B628**	2.39 to 2.75	A2.81	**5B647**	6.42 to 6.79	A9.25	**5B660**	15.10 to 16.00	A25.2	**5B649**

Thermal Unit Selection Guidelines

All thermal unit specifications are based on the motor and controller being operated in an ambient temp. of 40°C (104°F) or less.

A Regular Enclosure is defined as the standard-size enclosure that is included with an "enclosed" starter. The Large Enclosure column should be used when the starter is being installed in an oversized control panel or cabinet.

1. Determine motor full load current (amperage) rating and service factor.

2. Motor and controller in same ambient temp.:

For 1.15 to 1.25 service factor motors, use 100% of motor full load current for thermal unit selection. For 1.0 service factor motors, use 90% of motor full load current for thermal unit selection.

3. Motor and controller in different ambient temp.:

If motor ambient temp. is 18°F higher than motor starter's ambient temp., derate full load current value from step 2 by an additional 10%. If motor ambient temp. is 18°F lower than motor starter's ambient temp., increase full load current value from step 2 by an additional 5%. Use the resultant full load current value for thermal unit selection.

4. Locate the proper thermal unit selection column using the thermal unit code associated with the motor starter.

5. Match motor full load amperage to the closest thermal unit code without going over.

6. Do not exceed amp rating of motor starter.

7. 1-phase starters require 1 thermal unit. 3-phase starters require 3 thermal units.

No. 1H600



No. 1H669



SQUARE D by Schneider Electric

Thermal Units for NEMA Motor Starters

- 1-phase starters require 1 thermal unit
- 3-phase starters require 3 thermal units

THERMAL UNIT CODES

1-Phase Class 8536 Regular Enclosure			1-Phase Class 8536 Large Enclosure B1-		3-Phase Class 8536 Regular Enclosure C1-		3-Phase Class 8536 Large Enclosure D1-		1-Phase Class 8911 Regular Enclosure E1-			3-Phase Class 8911 Regular Enclosure F1-			3-Phase Class 8911 Large Enclosure G1-			1-Phase Class 2510M Regular Enclosure			1-Phase Class 2510M Large Enclosure			3-Phase Class 2510M Regular Enclosure		3-Phase Class 2510M Large Enclosure		Mfr.	Item
A1-A3	A4	A5	B3	B4	C3	C4	D3	D4	E3	E4	E5	F3	F4	F5	G3	G4	G5	J2	K2	L2	J1	K1	L1	M2	N2	M1	N1	Model	No.
0.31	—	—	0.33	—	0.30	—	0.31	—	—	—	—	—	—	—	—	—	—	0.36	0.36	0.36	0.38	0.38	0.38	0.32	0.32	0.32	0.32	B0.44	**1H594**
0.34	—	—	0.36	—	0.34	—	0.36	—	—	—	—	—	—	—	—	—	—	0.40	0.40	0.40	0.43	0.43	0.43	0.36	0.36	0.37	0.37	B0.51	**1H595**
0.38	—	—	0.40	—	0.37	—	0.38	—	—	—	—	—	—	—	—	—	—	0.45	0.45	0.45	0.48	0.48	0.48	0.39	0.39	0.39	0.39	B0.57	**1H596**
0.45	—	—	0.48	—	0.44	—	0.46	—	—	—	—	—	—	—	—	—	—	0.52	0.52	0.52	0.56	0.56	0.56	0.47	0.47	0.48	0.48	B0.63	**1H597**
0.54	—	—	0.57	—	0.53	—	0.55	—	—	—	—	—	—	—	—	—	—	0.59	0.59	0.59	0.63	0.63	0.63	0.56	0.56	0.57	0.57	B0.71	**1H598**
0.61	—	—	0.64	—	0.59	—	0.61	—	—	—	—	—	—	—	—	—	—	0.66	0.66	0.66	0.71	0.71	0.71	0.63	0.63	0.64	0.64	B0.81	**1H599**
0.66	—	—	0.70	—	0.64	—	0.66	—	—	—	—	—	—	—	—	—	—	0.73	0.73	0.73	0.78	0.78	0.78	0.69	0.69	0.70	0.70	B0.92	**1H600**
0.73	—	—	0.77	—	0.72	—	0.75	—	—	—	—	—	—	—	—	—	—	0.81	0.81	0.81	0.88	0.88	0.88	0.77	0.77	0.78	0.78	B1.03	**1H601**
0.81	0.92	—	0.85	0.92	0.80	—	0.83	—	—	—	—	—	—	—	—	—	—	0.91	0.91	0.91	0.99	0.99	0.99	0.86	0.86	0.87	0.87	B1.16	**1H602**
0.94	1.07	—	0.99	1.07	0.90	—	0.93	—	0.88	1.11	—	0.95	1.02	—	0.98	1.04	—	1.02	1.02	1.02	1.15	1.15	1.15	0.96	0.96	0.98	0.98	B1.30	**1H603**
1.05	1.14	—	1.10	1.14	1.03	—	1.06	—	1.02	1.27	—	1.09	1.15	—	1.13	1.18	—	1.14	1.14	1.14	1.23	1.23	1.23	1.11	1.11	1.13	1.13	B1.45	**1H604**
1.22	1.26	—	1.28	1.26	1.14	—	1.18	—	1.19	1.36	—	1.21	1.27	—	1.26	1.33	—	1.29	1.29	1.29	1.43	1.43	1.43	1.23	1.23	1.25	1.25	B1.67	**1H605**
1.34	1.49	—	1.41	1.49	1.27	—	1.31	—	1.37	1.53	—	1.35	1.39	—	1.38	1.43	—	1.42	1.42	1.42	1.51	1.51	1.51	1.37	1.37	1.40	1.40	B1.88	**1H606**
1.51	1.73	—	1.58	1.73	1.43	—	1.47	—	1.62	1.78	—	1.56	1.61	—	1.62	1.67	—	1.64	1.64	1.64	1.75	1.75	1.75	1.55	1.55	1.58	1.58	B2.10	**1H614**
1.71	1.89	—	1.80	1.89	1.62	—	1.67	—	1.90	2.02	—	1.76	1.84	—	1.82	1.88	—	1.80	1.80	1.80	1.93	1.93	1.93	1.75	1.75	1.79	1.79	B2.40	**1H615**
1.93	2.16	—	2.03	2.16	1.77	—	1.83	—	2.12	2.20	—	1.94	2.03	—	2.04	2.09	—	2.10	2.10	2.10	2.25	2.25	2.25	1.92	1.92	1.91	1.91	B2.65	**1H616**
2.14	2.37	—	2.25	2.37	1.97	—	2.04	—	2.46	2.52	—	2.22	2.34	—	2.36	2.41	—	2.30	2.30	2.30	2.47	2.47	2.47	2.16	2.16	2.20	2.20	B3.00	**1H620**
2.40	2.66	—	2.51	2.66	2.32	—	2.38	—	2.83	2.94	—	2.57	2.69	—	2.72	2.79	—	2.61	2.61	2.61	2.81	2.81	2.81	2.50	2.50	2.55	2.55	B3.30	**1H621**
2.72	2.99	—	2.83	2.99	2.51	—	2.60	—	3.19	3.30	—	2.87	3.02	—	3.07	3.15	—	2.99	2.99	2.99	3.20	3.20	3.2	2.81	2.81	2.87	2.87	B3.70	**1H622**
3.15	3.40	—	3.29	3.40	2.99	—	3.13	—	3.61	3.70	—	3.21	3.39	—	3.44	3.54	—	3.37	3.37	3.37	3.63	3.63	3.63	3.16	3.16	3.24	3.24	B4.15	**1H625**
3.55	3.94	3.74	3.75	3.94	3.42	3.40	3.59	3.51	3.89	4.02	—	3.50	3.65	—	3.69	3.75	—	3.94	3.94	3.94	4.19	4.19	4.19	3.40	3.40	3.48	3.48	B4.85	**1H626**
4.00	4.15	4.23	4.22	4.15	3.75	3.76	3.94	3.89	4.32	4.46	4.22	3.79	4.04	3.89	4.11	4.11	4.09	4.24	4.24	4.24	4.53	4.53	4.53	3.76	3.76	3.85	3.85	B5.50	**1H629**
4.40	4.49	4.68	4.65	4.49	3.98	4.00	4.19	4.14	4.57	4.69	4.49	4.04	4.28	4.15	4.34	4.46	4.35	4.54	4.54	4.54	4.89	4.89	4.89	4	4.00	4.10	4.10	B6.25	**1H632**
4.88	5.15	5.22	5.16	5.15	4.48	4.57	4.72	4.73	5.19	5.37	5.14	4.53	4.85	4.76	4.89	5.09	5.07	5.29	5.29	5.29	5.68	5.68	5.68	4.68	4.68	4.79	4.79	B6.90	**1H633**
5.19	5.77	5.67	5.53	5.77	4.93	5.03	5.21	5.22	5.79	5.94	5.78	5.03	5.38	5.30	5.44	5.61	5.79	5.73	5.73	5.73	6.27	6.27	6.27	5.18	5.18	5.31	5.31	B7.70	**1H635**
5.73	6.61	6.13	6.09	6.61	5.21	5.32	5.51	5.53	6.16	6.34	6.23	5.36	5.71	5.70	5.80	5.99	6.27	6.35	6.35	6.35	6.85	6.85	6.85	5.51	5.51	5.65	5.65	B8.20	**1H638**
6.39	7.14	6.91	6.80	7.14	5.84	5.97	6.17	6.21	6.94	7.09	7.03	5.97	6.39	6.46	6.47	6.70	7.16	7.08	7.08	7.08	7.73	7.73	7.73	6.19	6.19	6.35	6.35	B9.10	**1H640**
7.13	7.97	7.70	7.60	7.97	6.67	6.88	7.07	7.17	7.99	8.46	8.23	6.89	7.53	7.65	7.45	8.19	8.58	7.83	7.83	7.83	8.50	8.50	8.5	7.12	7.12	7.31	7.31	B10.2	**1H607**
7.90	8.15	8.56	8.35	8.15	7.54	7.82	8.05	8.19	8.99	9.32	9.31	7.79	8.34	8.55	8.49	8.79	9.55	8.47	8.47	8.47	9.29	9.29	9.29	8.15	8.15	8.34	8.34	B11.5	**1H608**
8.55	9.32	9.39	9.04	9.32	8.14	8.47	8.69	8.90	9.98	10.2	10.1	8.53	9.14	9.36	9.29	9.66	10.2	9.83	9.83	9.83	10.4	10.4	10.4	8.60	8.60	8.84	8.84	B12.8	**1H609**
9.53	9.97	10.4	9.99	9.97	8.72	9.15	9.32	9.47	10.6	10.9	10.7	9.09	9.74	9.90	9.99	10.2	10.9	10.5	10.5	10.5	11.3	11.3	11.3	9.21	9.21	9.47	9.47	B14.0	**1H610**
10.6	10.7	11.6	11.1	10.7	9.66	10.1	10.20	10.60	11.6	12.1	11.9	9.99	10.7	10.9	10.8	11.4	11.9	11.4	11.4	11.4	12.3	12.3	12.3	10.1	10.1	10.4	10.4	B15.5	**1H611**
11.8	12.0	12.9	12.3	12.0	10.50	11.2	11.30	11.80	13.1	13.4	13.1	10.9	11.8	12.0	12.1	12.6	13.1	12.8	12.8	12.8	13.9	13.9	13.9	11.2	11.2	11.5	11.5	B17.5	**1H612**
13.2	13.9	14.6	13.7	13.9	11.30	12.0	12.10	12.70	14.2	14.2	13.9	11.7	12.2	12.8	13.1	13.5	14.0	13.9	13.9	13.9	15.0	15	15	12	12.1	12.0	12.4	B19.5	**1H613**
14.9	15.7	16.5	15.4	15.7	12.00	13.6	13.70	14.40	15.4	16.0	15.9	13.4	14.4	14.2	14.6	15.1	14.8	16.1	16.0	16.0	18.0	17.4	17.4	—	13.6	—	14.0	B22.0	**1H617**
16.6	18.4	18.5	18.0	18.4	14.10	15.2	15.20	16.10	17.6	18.1	18.0	15.4	16.4	16.0	16.4	17.2	17.0	18.0	17.6	17.6	—	19.2	19.2	—	15.3	—	15.8	B25.0	**1H618**
18.9	21.6	21.0	19.4	21.6	15.90	17.1	17.20	18.20	20.0	20.5	20.8	17.9	18.9	18.5	18.9	19.9	19.6	—	20.6	20.6	—	22	22.0	—	17.3	—	17.8	B28.0	**1H619**
21.2	24.0	23.6	21.7	24.0	17.50	19.0	18.90	20.20	22.7	23.5	23.1	20.2	21.3	21.2	20.9	22.5	22.1	—	23.1	23.1	—	24.6	24.6	—	19.1	—	19.7	B32.0	**1H623**
23.0	28.6	26.3	23.9	28.6	19.70	21.5	21.40	22.80	26.1	27.2	26.9	23.2	23.3	24.9	24.1	26.2	26.0	—	26.0	27.1	—	26	29.1	—	21.7	—	22.4	B36.0	**1H624**
25.5	30.7	29.3	26.0	30.7	21.90	24.1	23.70	25.60	29.6	30.8	31.4	25.8	27.9	28.0	27.2	29.9	29.4	—	—	29.2	—	—	31.7	—	24.2	—	25.1	B40.0	**1H627**
26.0	33.5	35.1	—	33.5	24.40	27.0	26.00	28.80	30.0	35.0	36.0	28.6	31.4	31.7	30.0	34.0	34.0	—	—	33.0	—	—	36.0	—	26.0	—	26.0	B45.0	**1H628**
—	36.0	36.1	—	36.0	26.00	28.7	—	30.60	—	37.2	38.8	29.7	32.5	34.6	—	36.2	36.4	—	—	36.0	—	—	—	—	—	—	—	B50.0	**1H630**
—	—	39.1	—	—	—	30.4	—	32.40	—	40.0	41.7	30.0	36.5	37.4	—	38.7	39.2	—	—	—	—	—	—	—	—	—	—	B56.0	**1H631**
—	—	41.5	—	—	—	32.2	—	34.60	—	—	46.3	—	40.0	40.0	—	40.0	42.4	—	—	—	—	—	—	—	—	—	—	B62.0	**1H634**
—	—	45.00	—	—	—	35.4	—	38.60	—	—	50.0	—	—	46.4	—	—	49.3	—	—	—	—	—	—	—	—	—	—	B70.0	**1H636**
—	—	—	—	—	—	38.2	—	45.00	—	—	—	—	—	50.0	—	—	50.0	—	—	—	—	—	—	—	—	—	—	B79.0	**1H637**
—	—	—	—	—	—	45.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	B88.0	**1H639**

3-Phase Class 8536 Regular Enclosure Code C5	Code C6	Large Enclosure Code D5	Code D6	Mfr. Model	Item No.
14.50	—	15.4	—	CC20.9	**1H650**
15.50	—	16.4	—	CC22.8	**1H653**
17.40	—	18.5	—	CC24.6	**1H654**
18.50	—	19.6	—	CC26.3	**1H655**
19.90	—	21.1	—	CC28.8	**1H656**
21.50	—	22.7	—	CC31.0	**1H657**
22.90	—	24.4	—	CC33.3	**1H658**
24.50	—	26.1	—	CC36.4	**1H659**
26.30	—	28.1	—	CC39.6	**1H660**
28.20	—	30	—	CC42.7	**1H661**

3-Phase Class 8536 Regular Enclosure Code C5	Code C6	Large Enclosure Code D5	Code D6	Mfr. Model	Item No.
30.00	—	32.1	—	CC46.6	**1H662**
32.30	—	34.7	—	CC50.1	**1H663**
34.90	—	37.3	—	CC54.5	**1H664**
37.60	—	40.1	—	CC59.4	**1H665**
40.00	43.5	42.6	48.2	CC64.3	**1H666**
42.80	46.8	45.8	52.4	CC68.5	**1H667**
45.30	50.0	48.3	56.4	CC74.6	**1H668**
49.10	54.9	52.6	61.2	CC81.5	**1H669**
53.40	57.5	56.8	66.1	CC87.7	**1H670**
57.40	61.8	60.9	71.4	CC94.0	**1H671**

3-Phase Class 8536 Regular Enclosure Code C5	Code C6	Large Enclosure Code D5	Code D6	Mfr. Model	Item No.
61.30	66.2	65.1	77	CC103.0	**1H641**
63.50	72.4	67.7	79	CC112.0	**1H642**
66.30	78.1	70.9	84.7	CC121.0	**1H643**
69.00	80.7	73.9	91.1	CC132.0	**1H644**
70.90	86.5	76.5	98.1	CC143.0	**1H645**
73.70	93.9	80.2	104	CC156.0	**1H646**
76.50	100	83.1	113	CC167.0	**1H647**
78.40	112	86	123	CC180.0	**1H648**
86.00	117	—	133	CC196.0	**1H649**
—	123	—	—	CC208.0	**1H651**
—	133	—	—	CC219.0	**1H652**

NEMA Manual Motor Switches

Wiring Device-Kellems | by Schneider Electric

Nonreversing switches provide On/Off control of 1- or 3-phase AC motors where overload protection is not required or is provided separately. Open switches fit standard single-gang switch boxes and work with any cover plate that has a standard toggle cutout.

All switches rated 1, 1½, 2 HP at 90/115/230VDC respectively. 2-pole, 10 switches rated 2 HP at 115/230V. 3-pole, 30 switches are rated 7½ HP at 230V and 10 HP at 460 to 575V. For use in small machine tools, pumps, fans, conveyors, and electrical machinery. Also for nonmotor loads such as resistance heaters. UL Listed.



No. 1H406



No. 1H408

Amps AC	Enclosure NEMA Rating	Description/ Special Features	Pilot Light	H	W	D	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
Hubbell										
30	1	Aluminum Enclosure	No	4.70"	3.20"	3.10"	HBL1372D	**1MTD4**	HBL1379D	**1MTD6**
30	1	Thermoplastic Enclosure	No	4.52"	3.97"	3.43"	HBL1392D	**1MTD5**	HBL1389D	**1MTD7**
30	3, 3R	—	No	4.75"	3.00"	4.55"	HBL13R22D	**1MTD8**	HBL13R23D	**1MTD9**
30	No Enclosure	—	No	3.70"	2.20"	2.40"	HBL7832D	**2EAV3**	HBL7810D	**5HA30**
40	No Enclosure	—	No	3.70"	2.20"	2.40"	HBL7842D	**5HA31**	HBL7843D	**1MTE2**
50	No Enclosure	—	No	3.78"	2.25"	2.44"	HBL7852D	**1MTE3**	HBL7853D	**1MTE4**
60	No Enclosure	—	No	3.70"	2.20"	2.40"	HBL7862D	**1MTE5**	HBL7863D	**1MTE6**
85	No Enclosure	—	No	3.28"	3.56"	1.58"	HBL7882D	**1MTE7**	HBL7883D	**1MTE8**
Square D										
30	1	General Purpose Surface Mount	No	4.25"	2.44"	2.75"	2510KG1	**1H400**	2510KG2	**1H401**
30	1	Oversized Enclosure	No	4.25"	2.88"	2.75"	—	—	2510KGJ2	**1H403**
30	1	440 to 600VAC Pilot Light	Yes	4.25"	2.44"	2.75"	—	—	2510KG2C	**2BV90** †
30	1	230VAC Pilot Light	Yes	4.25"	2.44"	2.75"	2510KG1B	**2MNH2** *	—	—
30	1	115VAC Pilot Light	Yes	4.25"	2.88"	2.75"	2510KG1A	**2BV87**	—	—
30	3R, 7, 9	Hazardous Location	No	6.36"	3.95"	4.25"	2510KR1	**2BV96**	2510KR2	**2BV97**
30	3R, 7, 9	¾" Pipe Tap on Top and Bottom	No	6.36"	3.95"	4.25"	—	—	2510KR2H	**2BV98**
30	4	Water Tight and Dust Tight	No	4.25"	3.00"	4.25"	2510KW1	**1H408**	2510KW2	**1H409**
30	4	440 to 600VAC Pilot Light	Yes	4.38"	3.00"	4.56"	—	—	2510KW2C	**2BW05** *
30	4	¾" Pipe Tap on Top and Bottom	No	4.38"	3.00"	4.25"	2510KW1H	**2MNH4**	2510KW2H	**2BW06**
30	4	230VAC Pilot Light	No	4.38"	3.00"	4.56"	2510KW1B	**2MNH3** †	—	—
30	4	115VAC Pilot Light	Yes	4.38"	3.00"	4.25"	2510KW1A	**2BW03**	—	—
30	No Enclosure	Gray Flush Plate	No	4.50"	2.75"	2.50"	2510KF1	**2BV82**	2510KF2	**2BV84**
30	No Enclosure	Open Motor Switch	No	4.12"	1.69"	2.34"	2510KO1	**1H404**	2510KO2	**1H405**
30	No Enclosure	230VAC Pilot Light	Yes	4.25"	2.44"	2.75"	2510KS1B	**2BW01**	—	—
30	No Enclosure	Stainless Steel Flush Plate	No	4.50"	2.75"	1.44"	2510KS1	**1H406**	2510KS2	**1H407**



No. 1H405



No. 5HA30

Description	Brand	Mfr. Model	Item No.
Accessories For Use with NEMA 1 Enclosures			
Red Pilot Light Kit, 115 to 240VAC/DC	Square D	9999PL10	**1H419**
Red Pilot Light Kit, 110 to 120VAC	Square D	9999PL11	**1H420**
Red Pilot Light Kit, 208 to 277VAC	Square D	9999PL12	**1H421**
Red Pilot Light Kit, 440 to 600VAC	Square D	9999PL13	**1H422**
Handle Guard Kit w/Padlock Provision	Square D	2510FL1	**1H391**
Emergency Off Actuator	Square D	2510PB1	**6B401**
Enclosure for Nos. 2EAV3 and 5HA30	Hubbell	HBL1390	**1GUD2**

**** 230VAC pilot light. † 440 to 600VAC pilot light.***

Dayton | by Schneider Electric

Drum Switches

For starting and reversing of motors. Wiring diagram included. Should be used in conjunction with a motor that has overload protection or where no overload protection is required.

DAYTON®

Heavy copper drum contacts and metal enclosure with pressed steel case and frame.

SQUARE D®

Nonmetallic NEMA enclosure. 600VAC max. Field-convertible from maintained to momentary operation.



No. 4UYE8



No. 2X440



No. 2BW44

NEMA Rating	HP @ 1-Phase 115V	HP @ 1-Phase 230V	HP @ 3-Phase 240V	HP @ 3-Phase 460V	HP @ 115VDC	HP @ 230VDC	Starter Type	Handle Material	H	W	D	Std.	Mfr. Model	Item No.
Drum Switches—For Motor Reversing Applications														
Dayton														
1	1½	2	2	1	¼	¼	Momentary	Plastic	4.5"	2.25"	4"	UL Listed, CSA Certified	4UYE7	**4UYE7**
1	1½	2	2	1	¼	¼	Momentary	Steel	4.5"	2.25"	4"	UL Listed, CSA Certified	4UYE8	**4UYE8**
1	1½	2	—	—	¼	¼	Momentary	Plastic	4.5"	2.25"	4"	UL Listed, CSA Certified	5DJN3	**5DJN3**
1	1½	2	—	—	¼	¼	Momentary	Steel	4.5"	2.25"	4"	UL Listed, CSA Certified	5DJN4	**5DJN4**
1	1½	2	—	—	¼	¼	Maintained	Plastic	4.5"	2.25"	4"	UL Listed, CSA Certified	2X440	**2X440**
1	1½	2	—	—	¼	¼	Maintained	Steel	4.5"	2.25"	4"	UL Listed, CSA Certified	4UYE9	**4UYE9**
1	1½	2	2	1	¼	¼	Maintained	Plastic	4.5"	2.25"	4"	UL Listed, CSA Certified	2X441	**2X441**
1	1½	2	2	1	¼	¼	Maintained	Steel	4.5"	2.25"	4"	UL Listed, CSA Certified	4UYF1	**4UYF1**
1	1½	2	2	2	1	1	Maintained	Plastic	5.5"	3.5"	5"	—	2X442	**2X442**
1	2	3	5	7½	2	2	Maintained	Plastic	5.75"	3.5"	6.25"	UL Listed, CSA Certified	2X443	**2X443**
Square D														
1	1½	2	2	2	¼	¼	Maintained/Momentary	Plastic	4.6"	2.7"	5.4"	UL Listed, CSA Certified	2601AG2	**2BW44**
1	1½	3	5	7½	2	2	Maintained/Momentary	Plastic	4.9"	3.3"	6.6"	UL Listed, CSA Certified	2601BG1	**2BW46**
4	1½	2	2	2	¼	¼	Maintained/Momentary	Plastic	4.6"	4.5"	5.4"	UL Listed, CSA Certified	2601AW2	**2BW45**
4	1½	3	5	7½	2	2	Maintained/Momentary	Plastic	4.9"	3.3"	6.6"	UL Listed, CSA Certified	2601BW1	**2BW47**



No. H2554



No. H2559

EATON

IEC Magnetic Motor Starters

- 3-phase applications, 600VAC max., 60/50 Hz
- Electronic overload with Class 10A, 10, 20, and 30 selectable protection
- IP20 rating, NEMA 1 metallic enclosure
- 5:1 overload adjustment range

Feature Eaton XT/DIL M Series motor starter and motor overload protection with Eaton C440 electronic overload.

Enclosures are easily mountable, and accessible with only 1 screw to close the enclosure. Come with 1 normally open auxiliary contact for 3-wire control purposes. Feature both manual and automatic reset options as well as selectable trip class. Low-wattage coils. Provide phase loss and unbalance protection. Models with 24VAC and DC coils are available on Grainger.com®. UL Listed.

Amps AC	Overload Relay Amp Setting	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	WITHOUT CONTROLS Item No.	WITH HAND/OFF/ AUTO SELECTOR SWITCH Item No.	WITH HAND/OFF/ AUTO SELECTOR SWITCH AND RED RUN PILOT LIGHT Item No.	WITH START/ STOP PUSH BUTTON Item No.	WITH START/ STOP PUSH BUTTON AND RED RUN PILOT LIGHT Item No.
9.0	0.3 to 1.6	120VAC, 208VAC, 240VAC, 480VAC	3	½	H2559	H2549	H2554	H2564	H2569
9.0	1.0 to 5.0		1	3	H2560	H2550	H2555	H2565	H2570
9.0	4.0 to 20.0		2	5	H2561	H2551	H2556	H2566	H2571
25.0	9.0 to 45.0		7½	15	H2562	H2552	H2557	H2567	H2572
32.0	9.0 to 45.0		10	20	H2563	H2553	H2558	H2568	H2573



No. 19YM23

Magnetic Motor Starters

SIEMENS

- 1NC/1NO
- Open enclosure type
- 24VDC

Starters provide prolonged service life and reduced heat losses thanks to hybrid switching technology. Offer the ideal solution for space-saving applications in the control cabinet.

Amps AC	Overload Relay Amp Setting	Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	SCREW TYPE CONNECTION Item No.	SPRING LOADED CONNECTION Item No.	MIXED CONNECTION Item No.
Nonreversing							
0.5	0.1 to 0.5	24VDC	—	—	19YM23	19YM25	19YM27
2.0	0.4 to 2.0		⅓	¾	19YM29	19YM31	19YM33
7.0	1.6 to 7.0		1½	3	19YM35	19YM37	19YM39
0.5	0.1 to 0.5	110 to 240VAC/DC	—	—	19YM24	19YM26	19YM28
2.0	0.4 to 2.0		⅓	¾	19YM30	19YM32	19YM34
7.0	1.6 to 7.0		1½	3	19YM36	19YM38	19YM40
Reversing							
0.5	0.1 to 0.5	24VDC	—	—	19YM41	19YM43	19YM45
2.0	0.4 to 2.0		⅓	¾	19YM47	19YM49	19YM51
7.0	1.6 to 7.0		1½	3	19YM53	19YM55	19YM57
0.5	0.1 to 0.5	110 to 240VAC/DC	—	—	19YM42	19YM44	19YM46
2.0	0.4 to 2.0		⅓	¾	19YM48	19YM50	19YM52
7.0	1.6 to 7.0		1½	3	19YM54	19YM56	19YM58



Nonreversing Contactor



Reversing Contactor



Thermal Overload Relay

IEC Contactors and Overload Relays

SIEMENS

Modular design with screw terminals and plug-in accessories. Easy assembly of components to form motor starters. Energy efficient design. Only 2 groups of accessories for 5 frame sizes. UL Listed and CSA Certified.

Frame/ Series Class/Code	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
Nonreversing IEC Magnetic Contactors, 3-Pole							
S00	7	1NC	24VAC; 24VDC; 120VAC; 208VAC; 240VAC	2	3	3RT20151	H2622
S00	7	1NO		2	3	3RT20151	H2575
S00	9	1NC		3	5	3RT20161	H2629
S00	9	1NO		3	5	3RT20161	H2576
S00	12	1NC		3	7½	3RT20171	H2630
S00	12	1NO		3	7½	3RT20171	H2577
S00	16	1NC		5	10	3RT20181	H2631
S00	16	1NO		5	10	3RT20181	H2578
S0	12	1NO/1NC		3	7½	3RT20241	H2579
S0	16	1NO/1NC		5	10	3RT20251	H2580
S0	25	1NO/1NC		7½	15	3RT20261	H2581
S0	32	1NO/1NC		10	20	3RT20271	H2582
S0	38	1NO/1NC		10	25	3RT20281	H2583
S2	40	—		15	30	3RT10351	H2584
S2	50	—		15	40	3RT10361	H2585
S3	65	—		25	50	3RT10441	H2586
S3	80	—		30	60	3RT10451	H2587
S3	95	—		30	75	3RT10461	H2588
S6	115	2NO/2NC	24VAC; 120VAC; 240VAC	50	100	3RT10546	H3806
S6	150	2NO/2NC	24VAC/DC; 120VAC/DC; 240VAC/DC	60	125	3RT10556	H3807
S6	185	2NO/2NC	24VAC; 120VAC; 240VAC	75	150	3RT10566	H3808
Nonreversing IEC Magnetic Contactors, 4-Pole							
S00	9	—	24VAC; 24VDC; 110VDC; 120VAC; 240VAC	3	5	3RT25161	H2607
S00	12	—		3	7½	3RT25171	H2608
S00	16	—		5	10	3RT25181	H2609
S0	25	1NO/1NC		7½	15	3RT25261	H2610
Reversing IEC Magnetic Contactors, 3-Pole							
S00	7	2 NC	24VDC; 120VAC; 240VAC	2	3	3RA23158	H2611
S00	9	2 NC		3	5	3RA23168	H2612
S00	12	2 NC		3	7½	3RA23178	H2613
S00	16	2 NC		5	10	3RA23188	H2614
S0	12	2NO/2NC		3	7½	3RA23248	H2620
S0	16	2NO/2NC		5	10	3RA23258	H2621
S0	25	2NO/2NC		7½	15	3RA23268	H2623
S0	32	2NO/2NC		10	20	3RA23278	H2624
S0	38	2NO/2NC		10	25	3RA23288	H2625
S2	40	2 NC		15	30	3RA13358	H2615
S2	50	2 NC		15	40	3RA13368	H2616
S3	65	2 NC		25	50	3RA13448	H2617
S3	80	2 NC		30	60	3RA13458	H2618
S3	95	2 NC		30	75	3RA13468	H2619

Current Range	Item No.
Thermal Overload Relays, Trip Class 10	
S0 Frame/Series/Class/Code	
1.80 to 2.50A	13A206
2.20 to 3.20A	13A207
2.80 to 4.00A	13A208
3.50 to 5.00A	13A209
4.50 to 6.30A	13A210
5.50 to 8.00A	13A211
7.00 to 10.0A	13A212
9.00 to 12.5A	13A213
11.0 to 16.0A	13A214
14.0 to 20.0A	13A215
17.0 to 22.0A	13A216
20.0 to 25.0A	13A217
23.0 to 28.0A	13A218
27.0 to 32.0A	13A219
30.0 to 36.0A	13A220
34.0 to 40.0A	13A221
S00 Frame/Series/Class/Code	
0.11 to 0.16A	13A184
0.14 to 0.20A	13A185
0.18 to 0.25A	13A186
0.22 to 0.32A	13A187
0.28 to 0.40A	13A188
0.35 to 0.50A	13A189
0.45 to 0.63A	13A190
0.55 to 0.80A	13A191
0.70 to 1.00A	13A192
0.90 to 1.25A	13A193
1.10 to 1.60A	13A194
1.40 to 2.00A	13A195
1.80 to 2.50A	13A196
2.20 to 3.20A	13A197
2.80 to 4.00A	13A198
3.50 to 5.00A	13A199
4.50 to 6.30A	13A201
5.50 to 8.00A	13A202
7.00 to 10.0A	13A203
9.00 to 12.5A	13A204
11.0 to 16.0A	13A205



Nonreversing, 3-Pole
No. H2508



Nonreversing, 3-Pole
No. H2517



Nonreversing, 4-Pole
No. H2543



Reversing, 3-Pole
No. H2500

EATON

IEC Contactors and Overload Relays

- IP20 rated
- Contactors rated: -25° to 50°C
- Relays rated: -25° to 65°C

Designed for industrial applications, Eaton XT/DIL M Series heavy-duty contactors and reversing contactors can be combined with electronic overload relays to make a starter. All contactors are available for panel and DIN-rail mounting. 690VAC max., 50/60 Hz. Feature low-wattage coils, auxiliary contacts, front access coil terminals, toolless assembly, and dual clamps for multiwire. Electronic Overload Relays have selectable trip class and phase unbalance, to protect motor life. Feature 5:1 current adjustment, Class 10A, 10, 20, 30 selectable protection, and are self-powered. Status LED indicates the overload operational status. UL Listed, CE Approved, and CSA Certified. ATEX Listed and RoHS Compliant.

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
Nonreversing IEC Magnetic Contactors, 3-Pole							
A	7	1NO	24VAC; 24VDC; 120VAC; 208VAC; 240VAC; 480VAC	2	3	XTCE007B10	**H2517**
A	7	1NC		2	3	XTCE007B01	**H2536**
B	9	1NO	24VAC; 24VDC; 120VAC; 208VAC; 240VAC; 380VAC; 480VAC	3	5	XTCE009B10	**H2518**
B	9	1NC		3	5	XTCE009B01	**H2537**
C	12	1NO		3	10	XTCE012B10	**H2519**
C	12	1NC		3	10	XTCE012B01	**H2538**
D	15	1NO		5	10	XTCE015B10	**H2520**
D	15	1NC		5	10	XTCE015B01	**H2539**
E	18	1NO		5	10	XTCE018C10	**H2521**
E	18	1NC		5	10	XTCE018C01	**H2540**
F	25	1NO	24VAC; 24VDC;	10	15	XTCE025C10	**H2522**
F	25	1NC	120VAC; 208VAC;	10	15	XTCE025C01	**H2541**
G	32	1NO	240VAC; 480VAC	10	20	XTCE032C10	**H2523**
G	32	1NC		10	20	XTCE032C01	**H2542**
H	40	—		15	30	XTCE040D00	**H2508**
J	50	—		20	40	XTCE050D00	**H2509**
K	65	—		25	50	XTCE065D00	**H2510**
L	72	—		25	50	XTCE072D00	**H2511**
M	80	—		30	60	XTCE080F00	**H2512**
N	95	—		40	75	XTCE095F00	**H2513**
O	115	—	24VAC; 24VDC;	50	100	XTCE115G00	**H2514**
P	150	—	120VAC; 240VAC;	60	125	XTCE150G00	**H2515**
Q	170	—	480VAC	60	125	XTCE170G00	**H2516**
Nonreversing IEC Magnetic Contactors, 4-Pole							
C	12	—		3	10	XTCF020B00	**H2524**
E	18	1NO	24VAC; 24VDC;	7½	10	XTCF032C10	**H2543**
F	25	1NO	120VAC; 208VAC;	10	15	XTCF045C10	**H2544**
H	40	—	240VAC; 480VAC	15	30	XTCF063D00	**H2525**
J	50	—		20	40	XTCF080D00	**H2526**
M	80	—	24VAC; 24VDC; 120VAC; 240VAC; 480VAC	30	60	XTCF125G00	**H2527**
N	95	—	24VDC; 120VAC; 240VAC; 480VAC	40	75	XTCF160G00	**H2528**
O	115	—	24VAC; 24VDC; 120VAC; 240VAC; 480VAC	50	100	XTCF200G00	**H2529**
Reversing IEC Magnetic Contactors, 3-Pole							
A	7	2NO/1NC		2	3	XTCR007B21	**H2530**
B	9	2NO/1NC		3	5	XTCR009B21	**H2531**
C	12	2NO/1NC		3	10	XTCR012B21	**H2532**
E	18	2NO/1NC		5	10	XTCR018C21	**H2533**
F	25	2NO/1NC	24VAC; 24VDC;	10	15	XTCR025C21	**H2534**
G	32	2NO/1NC	120VAC; 208VAC;	10	20	XTCR032C21	**H2535**
H	40	1NO/1NC	240VAC; 480VAC	15	30	XTCR040D11	**H2500**
J	50	1NO/1NC		20	40	XTCR050D11	**H2501**
K	65	1NO/1NC		25	50	XTCR065D11	**H2502**
M	80	1NO/1NC		30	60	XTCR080F11	**H2503**
N	95	1NO/1NC		40	75	XTCR095F11	**H2504**
O	115	1NO/1NC	24VAC; 24VDC;	50	100	XTCR115G11	**H2505**
P	150	1NO/1NC	120VAC; 240VAC;	60	100	XTCR150G11	**H2506**
Q	170	1NO/1NC	480VAC	60	125	XTCR170G11	**H2507**



Overload Relay
No. 5XHK7



Timer Module
No. 4TZJ1

Works with Key	Current Range	Mfr. Model	Standard Item No.	With Ground Fault Item No.
Electronic Overload Relays				
A to D	0.33 to 1.65A	XTOE1P6B_S	**5XHN5**	**5XHN6**
A to D	1.00 to 5.00A	XTOE005B_S	**5XHK1**	**5XHK2**
A to D	4.00 to 20.0A	XTOE020B_S	**5XHK7**	**5XHK8**
E to G	0.33 to 1.65A	XTOE1P6C_S	**5XHN7**	**5XHN9**
E to G	1.00 to 5.00A	XTOE005C_S	**5XHK3**	**5XHK5**
E to G	4.00 to 20.0A	XTOE020C_S	**5XHK9**	**5XHL1**
E to G	9.00 to 45.0A	XTOE045C_S	**5XHL3**	**5XHL5**
H to K	9.00 to 45.0A	XTOE045D_S	**5XHL7**	**5XHL8**
H to K	20.0 to 100A	XTOE100D_S	**5XHL9**	**5XHN0**
M to Q	20.0 to 100A	XTOE100G_S	**5XHN1**	**5XHN3**
Independently Mounted Electronic Overload Relays				
—	0.33 to 1.65A	XTOE1P6C_SS	**5XHN8**	**5XHP0**
—	1.00 to 5.00A	XTOE005C_SS	**5XHK4**	**5XHK6**
—	4.00 to 20.0A	XTOE020C_SS	**5XHL0**	**5XHL2**
—	9.00 to 45.0A	XTOE045C_SS	**5XHL4**	**5XHL6**
—	20.0 to 100A	XTOE100G_SS	**5XHN2**	**5XHN4**
Overload Relay Accessories				
Expansion Module, Remote Reset, 18 to 30VDC, Modbus RTU, RS485		C440-XCOM	**6PXK9**	—
Remote Reset Module, 120VAC		ZEB-XRR-120	**5XHP6**	—
Remote Reset Module, 24VAC		ZEB-XRR-24	**5XHP7**	—
Reset Bar		ZEB-XRB	**5XHP5**	—
Safety Cover		ZEB-XSC	**5XHP8**	—

Works with Key	Description	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contacts					
A to G	Front Mounting, Rated 16A	1	1	XTCEXFAC11	**4TZG3**
A to G	Front Mounting, Rated 16A	2	2	XTCEXFAC22	**4TZG4**
A to G	Front Mounting, Rated 16A	4	0	XTCEXFAC40	**4TZG5**
H to Q	Front Mounting, Rated 16A	1	1	XTCEXFBG11	**4TZG6**
H to Q	Front Mounting, Rated 16A	2	2	XTCEXFBG22	**4TZG7**
H to Q	Front Mounting, Rated 16A	4	0	XTCEXFBG40	**4TZG8**
G	Side Mounting, Rated 10A	1	1	XTCEXSCC11	**4TZH9**
IEC Timer Modules, Front Mounting					
A to G	Off Delay, 100-130VAC, 5.00 sec. to 100.00 sec. sec.	1	1	XTCEXTED100C11A	**4TZJ1**
A to G	Off Delay, 200-240VAC, 5.00 sec. to 100.00 sec. sec.	1	1	XTCEXTED100C11B	**4TZJ2**
A to G	Off Delay, 24VAC/DC, 5.00 sec. to 100.00 sec. sec.	1	1	XTCEXTED100C11T	**4TZJ3**
A to G	On Delay, 100-130VAC, 0.50 sec. to 10.00 sec. sec.	1	1	XTCEXTEEC11A	**4TZJ4**
A to G	On Delay, 200-240VAC, 15.00 sec. to 100.00 sec. sec.	1	1	XTCEXTEEC11B	**4TZJ5**
A to G	On Delay, 24VAC/DC, 0.05 sec. to 1.00 sec. sec.	1	1	XTCEXTEEC11T	**4TZJ6**
Mechanical Interlocks					
A to D	—	—	—	XTCEXMLB	**4TZG9**
E to G	—	—	—	XTCEXMLC	**4TZH1**
H to K	—	—	—	XTCEXMLD	**4TZH2**
M to Q	—	—	—	XTCEXMLG	**4TZH3**
Reversing Link Kits					
A to D	—	—	—	XTCEXRLB	**4TZH4**
E to G	—	—	—	XTCEXRLC	**4TZH5**
H to K	—	—	—	XTCEXRLD	**4TZH6**
M to Q	—	—	—	XTCEXRLG	**4TZH7**

IEC Contactors, Motor Starters, and Overload Relays

Dayton

CONTACTORS
- 3-yr. warranty
- DIN rail or panel mount

For industrial motor control. Mechanical life: 10 million cycles. 3-pole contactors should be paired with overload relays. 9 to 32A 3-pole contactors have 1NO auxiliary contact. 40 to 95A 3-pole contactors have 1NO/1NC auxiliary contacts. UL and C-UL Listed.

OVERLOAD RELAYS
- Bimetallic
- For 3-phase applications
- Compatible with Dayton® IEC contactors

Feature continuously readjustable current settings. Have temperature compensation, tripped indicator, test button, stop button, manual and automatic reset button, finger-safe terminals, and 1NO/1NC contacts. UL and C-UL Listed.

AUXILIARY CONTACT BLOCKS
- Front mount
- Compatible with Dayton® IEC contactors

Allow for additional indicator lights, signals, or alarms.

TIME DELAY AUXILIARY CONTACT BLOCKS
- Front mount
- Compatible with Dayton® IEC contactors

Timer combines with a contactor to create a time delay contactor.

REPLACEMENT COILS
- 60 Hz
- Compatible with Dayton® IEC contactors

Coil can be changed without replacing the entire block.



3-Pole Contactor



Overload Relay



Time Delay Auxiliary Contact Block

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Item No.	REVERSING Item No.
3-Pole IEC Magnetic Contactor							
A	9	1NO	24VAC, 120VAC, 240VAC	2	5	**H2449**	—
A	9	1NO	24VAC, 24VDC, 120VAC, 240VAC	2	5	—	**H2459**
B	12	1NO	24VAC, 120VAC, 240VAC	3	7½	**H2450**	—
B	12	1NO	24VAC, 24VDC, 120VAC, 240VAC	3	7½	—	**H2460**
C	18	1NO	24VAC, 120VAC, 240VAC	5	10	**H2451**	—
C	18	1NO	24VAC, 24VDC, 120VAC, 240VAC	5	10	—	**H2461**
D	25	1NO	24VAC, 120VAC, 240VAC	7½	15	**H2452**	—
D	25	1NO	24VAC, 24VDC, 120VAC, 240VAC	7½	15	—	**H2462**
E	32	1NO	24VAC, 120VAC, 240VAC	10	20	**H2453**	—
F	32	1NO/1NC		10	30	**H2454**	—
G	50	1NO/1NC		15	40	**H2455**	—
H	65	1NO/1NC	24VAC, 24VDC, 120VAC, 240VAC	20	50	**H2456**	—
J	80	1NO/1NC		25	60	**H2457**	—
K	95	1NO/1NC		25	60	**H2458**	—
4-Pole (2NO/2NC) IEC Magnetic Contactor							
A	9	—		—	—	**H2463**	—
B	12	—		—	—	**H2464**	—
D	25	—	24VAC, 24VDC, 120VAC, 240VAC	—	—	**H2465**	—
F	40	—		—	—	**H2466**	—
G	50	—		—	—	**H2467**	—

Works with Key	Current Range	Item No.	Works with Key	Current Range	Item No.
Overload Relays					
A to C	0.10 to 0.16A	**6ECA3**	A to C	9.00 to 13.0A	**6ECC4**
A to C	0.16 to 0.25A	**6ECA4**	A to C	12.0 to 18.0A	**6ECC5**
A to C	0.25 to 0.40A	**6ECA5**	D,E	17.0 to 25.0A	**6ECC6**
A to C	0.40 to 0.63A	**6ECA6**	F to K	23.0 to 32.0A	**6EAZ7**
A to C	0.63 to 1.00A	**6ECA7**	D,E	23.0 to 32.0A	**6ECC7**
A to C	1.00 to 1.60A	**6ECA8**	D,E	28.0 to 36.0A	**6ECC8**
A to C	1.60 to 2.50A	**6ECA9**	F to K	30.0 to 40.0A	**6EAZ8**
A to C	2.50 to 4.00A	**6ECC0**	F to K	37.0 to 50.0A	**6EAZ9**
A to C	4.00 to 6.00A	**6ECC1**	F to K	48.0 to 65.0A	**6ECA0**
A to C	5.50 to 8.00A	**6ECC2**	F to K	55.0 to 70.0A	**6ECA1**
A to C	7.00 to 10.0A	**6ECC3**	F to K	63.0 to 80.0A	**6ECA2**
			F to K	80.0 to 93.0A	**6ECC9**

Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Item No.
Auxiliary Contact Blocks, 3 Amps @ 240VAC, 1.5 Amps @ 120VAC			
All	1	1	**6EAR9**
All	2	0	**6EAT0**
All	0	2	**6EAT1**
All	2	2	**6EAT2**
All	1	3	**6EAT3**
All	4	0	**6EAT4**
All	0	4	**6EAT5**
All	3	1	**6EAT6**
A to E	Mechanical Interlock		**6FZJ1**

Works with Key	Contacts NC	Contacts NO	Range of Time Delay	ON DELAY Item No.	OFF DELAY Item No.
Time Delay Auxiliary Contact Blocks					
All	1	1	0.10 sec. to 3.00 sec.	**6EAT7**	**6EAU0**
All	1	1	0.10 sec. to 30.00 sec.	**6EAT8**	**6EAU1**
All	1	1	10.00 sec. to 180.00 sec.	**6EAT9**	**6EAU2**

Works with Key	Encl. Type	H	W	D	Item No.
Enclosures					
A	NEMA 4	7.32"	4.72"	5.11"	**6FZJ4**
C	NEMA 4	7.32"	4.72"	5.11"	**6FZJ5**
D	NEMA 4	8.48"	5.66"	5.31"	**6FZJ6**
E	NEMA 4	8.48"	5.66"	5.31"	**6FZJ7**
A	NEMA 12	6.37"	3.42"	5.51"	**6FZJ2**
D	NEMA 12	7.08"	3.81"	6.10"	**6FZJ3**

Works with Key	24VAC Item No.	120VAC Item No.	240VAC Item No.
Replacement Coils			
A to C	**6EAU3**	**6EAU5**	**6EAU7**
D,E	—	**6EAZ5**	**6EAZ6**
F to K	**6EAU4**	**6EAU6**	**6EAU8**



No. G3476

Schneider Electric

TeSys™ IEC Contactors and Overload Relays

For industrial motor control applications, combine a contactor with an overload relay to make a complete motor starter. Rated 600VAC. Saddle clamp terminals. DIN rail- or panel-mount. UL Listed, CSA and CE Certified.

CONTACTORS

Inclined wire guides and captive screws. 60/50 Hz coil. IP20 touch-safe with removable terminal cover.

OVERLOAD RELAYS

For 3-phase applications. Bimetallic elements. Class 10 trip characteristics with 1-phase sensitivity. Ambient compensated. Adjustable current range. Lockable, sealable, manual/auto reset, test trip. Mount to underside of contactor.

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Item No.	REVERSING Item No.
3-Pole IEC Magnetic Contactor							
A	9	1NO/1NC		2	5	**G3478**	**G3486**
B	12	1NO/1NC		3	7½	**G3479**	**G3487** *
C	18	1NO/1NC		5	10	**G3480**	**G3488**
D	25	1NO/1NC	24VAC, 24VDC,	7½	15	**G3481**	**G3489** *
E	32	1NO/1NC	120VAC,	10	20	**G3482**	**G3490** *
F	40	1NO/1NC	208VAC,	10	30	**G3475**	—
G	50	1NO/1NC	240VAC,	15	40	**G3476**	—
H	65	1NO/1NC	480VAC	20	40	**G3477**	—
J	80	1NO/1NC		30	60	**G3483**	—
K	115	1NO/1NC		40	75	**G3484**	—
L	150	1NO/1NC		50	100	**G3485**	—

Works with Key	Current Range	Mfr. Model	Item No.	Works with Key	Current Range	Mfr. Model	Item No.	Works with Key	Current Range	Mfr. Model	Item No.
IEC Style Overload Relay											
A to E	0.10 to 0.16A	LRD01	**3EA37**	A to E	4.00 to 6.00A	LRD10	**3EA45**	F to H	23.0 to 32.0A	LRD332	**6KYC5**
A to E	0.16 to 0.25A	LRD02	**3EA38**	A to E	5.50 to 8.00A	LRD12	**3EA46**	F to H	30.0 to 40.0A	LRD340	**6KYC6**
A to E	0.25 to 0.40A	LRD03	**3EA39**	A to E	7.00 to 10.0A	LRD14	**3DY99**	G to H	37.0 to 50.0A	LRD350	**6KYC7**
A to E	0.40 to 0.63A	LRD04	**3EA40**	B to E	9.00 to 13.0A	LRD16	**3EA10**	H	48.0 to 65.0A	LRD365	**6KYC8**
A to E	0.63 to 1.00A	LRD05	**3EA41**	C to E	12.0 to 18.0A	LRD21	**3EA11**	J	55.0 to 70.0A	LRD3361	**3DE30**
A to E	1.00 to 1.60A	LRD06	**3EA42**	D,E	16.0 to 24.0A	LRD22	**3EA12**	J	63.0 to 80.0A	LRD3363	**3DE31**
A to E	1.60 to 2.50A	LRD07	**3EA43**	D,E	23.0 to 32.0A	LRD32	**3EA13**	K,L	80.0 to 104A	LRD4365	**2MMY1**
A to E	2.50 to 4.00A	LRD08	**3EA44**	E	30.0 to 38.0A	LRD35	**3EA14**	K,L	95.0 to 120A	LRD4367	**2MMY2**
Terminal Block											
Square Series D, K, and F Overload Relays;LR3D01 to D35 and LRD01 to 35									LAD7B106		**2UWY3**
Overload Relay Mounting Kit											
Square D Overload Relay Series LRD3, LR3D3 and LR2D35									LA7D3064		**2UWY4**

Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.	Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks, Front Mounting					All	2	0	LADN20	**3DB60**
All	2	2	LADN22	**3DB62**	All	0	2	LADN02	**3DB61**
All	1	3	LADN13	**3DB63**	J	1	0	LADN10	**3DB57**
All	4	0	LADN40	**3DB64**	J	0	1	LADN01	**3DB58**
All	0	4	LADN04	**3DB65**	**Auxiliary Contact Blocks, Side Mounting, 1 Max. 9-32A, 2 Max. 40-80A**				
All	3	1	LADN31	**3DB66**	All (AC Coils Only)	1	1	LAD8N11	**3DB68**
All	1	1	LADN11	**3DB59**	All (AC Coils Only)	2	0	LAD8N20	**3DB69**

Works with Key	Contacts NC	Contacts NO	Range of Time Delay	ON DELAY Mfr. Model	ON DELAY Item No.	OFF DELAY Mfr. Model	OFF DELAY Item No.
Time Delay Auxiliary Contact Blocks, Front Mount							
All	1	1	0.10 sec. to 3.00 sec.	LADT0	**3DB73**	LADR0	**3DB77**
All	1	1	0.10 sec. to 30.00 sec.	LADT2	**3DB74**	LADR2	**3DB78**
All	1	1	10.00 sec. to 180.00 sec.	LADT4	**3DB75**	LADR4	**3DB79**

Works with Key	24VAC Item No.	120VAC Item No.	208VAC Item No.	240VAC Item No.	480VAC Item No.
Replacement Coils					
A, B, C, D, and E	**3DB96**	**3DB97**	**2MMY5**	**3DB98**	**3DB99**
J	**3DE10**	**3DE11**	**2MMY3**	**3DE12**	**2MMY4**

Not available with 208VAC coil.

IEC Mini Contactors

- 3-pole
- 50/60 Hz
- Enclosures not included

Feature a modular design that permits various configurations. Dual-mounting system. Mechanical life: 10 million operations, and electrical life: 1 million operations. Finger and back-of-hand protection. UL Listed and CSA Certified.

OVERLOAD RELAYS

- Trip Class 10

Feature phase loss sensitivity, ambient temperature compensation, automatic or manual reset, trip indication, and trip test.

AUXILIARY CONTACT BLOCKS

Contacts rated 10A, A600. Max. 600V.


Nonreversing


Reversing


Thermal Overload Relay


Auxiliary Contact

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Aux. Contact Config.	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Mfr. Model	NONREVERSING Item No.	REVERSING Mfr. Model	REVERSING Item No.
6	24VAC; 120VAC; 208VAC; 240 to 277VAC; 480VAC	1NO	1½	3	MC0A310AT	**H2474**	TLIE1T	**H2490**
6		1NC	1½	3	MC0A301AT	**H2468**	TLIE1U	**H2483**
9		1NO	3	5	MC1A310AT	**H2475**	TLIE2T	**H2491**
9		1NC	3	5	MC1A301AT	**H2499**	TLIE2U	**H2484**
12		1NO	4	7½	MC2A310AT	**H2477**	—	—
12	208VAC; 240 to 277VAC; 480VAC	1NC	4	7½	MC2A301AT	**H2469**	—	—

Current Range	Mfr. Model	Item No.
Overload Relays		
0.11 to 0.17A	MT03A	**6CLA9**
0.17 to 0.26A	MT03B	**6CLC0**
0.26 to 0.43A	MT03C	**6CLC1**
0.40 to 0.65A	MT03D	**6CLC2**
0.65 to 1.00A	MT03E	**6CLC3**
0.85 to 1.30A	MT03F	**6CLC4**
1.10 to 1.60A	MT03G	**6CLC5**
1.35 to 2.00A	MT03H	**6CLC6**
1.70 to 2.40A	MT03I	**6CLC7**
2.20 to 3.20A	MT03J	**6CLC8**
3.00 to 4.70A	MT03K	**6CLC9**
4.00 to 6.30A	MT03L	**6CLD0**
5.50 to 8.00A	MT03M	**6CLD1**
7.50 to 10.5A	MT03N	**6CLD2**
10.0 to 14.0A	MT03P	**6CLD3**

For Use With	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks				
Front Mount				
GE IEC MC/TL Contactors	0	2	MACN202AT	**6CKY8**
GE IEC MC/TL Contactors	1	1	MACN211AT	**6CKY9**
GE IEC MC/TL Contactors	1	3	MACN413AT	**6CKZ0**
GE IEC MC/TL Contactors	2	2	MACN422AT	**6CKZ1**
GE IEC MC/TL Contactors	3	1	MACN431AT	**6CKZ2**
Side Mount				
GE IEC MC Contactors	0	1	MACL101AT	**6CKY4**
GE IEC MC Contactors	1	0	MACL110AT	**6CKY6**
GE IEC TL Reversing Contactors	0	1	MACL101ATS	**6CKY5**
GE IEC TL Reversing Contactors	1	0	MACL110ATS	**6CKY7**
GE IEC MC/TL Contactors, Not Used In Combination w/Top Aux. Contacts	0	1	MARL101AT	**6CKZ3**
GE IEC MC/TL Contactors, Used In Combination w/Top Aux. Contacts	0	1	MARL101ATS	**6CKZ4**
GE IEC MC/TL Contactors, Not Used In Combination w/Top Aux. Contacts	1	0	MARL110AT	**6CKZ5**
GE IEC MC/TL Contactors, Used In Combination w/Top Aux. Contacts	1	0	MARL110ATS	**6CKZ6**

Miniature IEC Contactors and Overload Relays

- 3- and 4-pole configurations
- IP20 rated
- 12 to 600VAC, 12 to 220VDC

Eaton XT/DIL M Series miniature contactors are available with screw or spring-cage terminals and panel or DIN-rail mounting. Miniature overload relays mount directly to mini-contactors. Feature phase failure sensitivity, manual and automatic reset by selector switch, Test/Off button, and trip-free release. Suitable for light-duty applications like hoisting, packaging, material handling, heating, lighting, and automation systems. Quiet operation. Contact dimensions: 2.28"H x 1.77"W x 2.05"D. UL Listed, CSA, and CE Approved.


No. H2545


No. 4WXD6


No. 4WXC4

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Aux. Contact Config.	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
3-Pole						
6	24VAC, 24VDC, 120VAC, 208VAC, 240VAC, 480VAC	1NO	2	3	XTMC6A10	**H2547**
6		1NC	3	3	XTMC6A01	**H2545**
9		1NO	3	5	XTMC9A10	**H2548**
9		1NC	3	5	XTMC9A01	**H2546**
4-Pole						
9	24VAC, 24VDC, 120VAC, 208VAC, 240VAC, 480VAC	—	3	5	XTMF9A00	**H2574**

Current Range	Mfr. Model	Item No.
Overload Relays		
0.10 to 0.16A	XTOMP16AC1	**4WXE4**
0.16 to 0.24A	XTOMP24AC1	**4WXE5**
0.24 to 0.40A	XTOMP40AC1	**4WXE6**
0.40 to 0.60A	XTOMP60AC1	**4WXE7**
0.60 to 1.00A	XTOM001AC1	**4WXD6**

Current Range	Mfr. Model	Item No.
1.00 to 1.60A	XTOM1P6AC1	**4WXE2**
1.60 to 2.40A	XTOM2P4AC1	**4WXE3**
2.40 to 4.00A	XTOM004AC1	**4WXD7**
4.00 to 6.00A	XTOM006AC1	**4WXD8**
6.00 to 9.00A	XTOM009AC1	**4WXD9**
9.00 to 12.0A	XTOM012AC1	**4WXE1**

Amps	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact, Front Mounting				
10	1	1	XTMCXFA11	**4WXC4**
10	2	2	XTMCXFA22	**4WXC5**
10	4	0	XTMCXFA40	**4WXC6**
Accessories				
Mechanical Interlock			XTMCXML	**4WXC7**
Reversing Link Kit			XTMCXRL	**4WXC8**

TeSys™ Minicontactors and Overload Relays

DIN rail- or panel-mount general-duty TeSys minicontactors and overload relays fit into small spaces. Combine a minicontactor with an overload relay to make a complete motor starter. Rated 600VAC. Screw-clamp terminals. UL Listed and CSA Certified.

MINICONTACTORS

Mechanical life: contactors, 10 million operations; reversing contactors, 5 million operations. Inclined wire guides and captive screws. IP20 touch-safe with removable terminal cover.

OVERLOAD RELAYS

For 3-phase applications. Bimetallic elements. Class 10 trip characteristics with 1-phase sensitivity. Ambient compensated. Adjustable current range. Lockable, sealable, manual/auto reset, test trip. Mount to underside of contactor.


No. G3494


No. G3491


No. 6B182

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model*	Item No.
Nonreversing, 1NO Auxiliary Contact					
6	120VAC, 208VAC, 240VAC, 24VAC, 24VDC	1½	3	LC1K0610	**G3491**
9		3	5	LC1K0910	**G3492**
12		3	7½	LC1K1210	**G3493**
Reversing, 1NC Auxiliary Contact					
6	120VAC, 208VAC, 240VAC, 24VAC, 24VDC	1½	3	LC2K0601	**G3494**
9		3	5	LC2K0901	**G3495**
12	120VAC, 240VAC, 24VAC, 24VDC	3	7½	LC2K1201	**G3496**

Current Range	Mfr. Model	Item No.
Overload Relays		
0.11 to 0.16A	LR2K0301	**6B182**
0.16 to 0.23A	LR2K0302	**6B183**
0.23 to 0.36A	LR2K0303	**6B184**
0.36 to 0.54A	LR2K0304	**6B185**

Current Range	Mfr. Model	Item No.
0.54 to 0.80A	LR2K0305	**6B186**
0.80 to 1.20A	LR2K0306	**6B187**
1.20 to 1.80A	LR2K0307	**6B188**
1.80 to 2.60A	LR2K0308	**6B189**

Current Range	Mfr. Model	Item No.
2.60 to 3.70A	LR2K0310	**6B190**
3.80 to 5.50A	LR2K0312	**6B191**
5.50 to 8.00A	LR2K0314	**6B192**
8.00 to 11.5A	LR2K0316	**6B451**

Overload Relay Mounting Kit, 35mm DIN Rail or Panel Mount — LA7K0064 — **6B405**

No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks			
2	0	LA1KN20	**6B200**
1	1	LA1KN11	**6B199**

No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
2	2	LA1KN22	**6B201**
4	0	LA1KN40	**6B202**

** 24VDC models are Schneider Electric LP series.*



Nonreversing



Reversing



Overload Relay

IEC Contactors

- 3-pole
- 50/60 Hz
- Enclosures not included

UL Listed and CSA Certified.

OVERLOAD RELAYS

Feature phase loss sensitivity, ambient temperature compensation, trip indication, weld check, and trip test.

AUXILIARY CONTACT BLOCKS

Front mount. Contacts rated 10A, A600. Max. 600V.

IEC TIMER MODULES

Provide accurate, repeatable time delay upon energization. Easily snap on the front of contactor or relay. 1NO/1NC contacts, rated 10A, A600.

Key	Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Aux. Contact Config.	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Mfr. Model	NONREVERSING Item No.	REVERSING Mfr. Model	REVERSING Item No.
IEC Magnetic Contactors									
A	10	24VAC, 120VAC, 208VAC, 240VAC, 480VAC	1NO	3	5	CL00A310T	**H2476**	LAR00A	**H2492**
B	13.8		1NO	3	7½	CL01A310T	**H2478**	LAR01A	**H2493**
C	17		1NO	5	10	CL02A310T	**H2479**	LAR02A	**H2494**
D	22	24VAC, 120VAC, 240VAC	1NO	7½	15	CL25A310T	**H2480**	—	—
D	22	208VAC	1NO	7½	15	CL03A300T	**H2480**	—	—
D	22	480VAC	1NO	7½	15	EC25A311B	**H2480**	—	—
E	32		1NO	10	20	CL04A310M	**H2481**	LAR04A	**H2496**
F	34	24VAC, 120VAC, 208VAC, 240VAC, 480VAC	1NO	10	25	CL45A310M	**H2482**	LAR45A	**H2497**
G	48		1NO/1NC	15	30	CL06A311M	**H2470**	LAR06A	**H2485**
H	62		1NO/1NC	20	40	CL07A311M	**H2498**	LAR07A	**H2486**
J	80	24VAC	1NO/1NC	25	50	CL08A311M	**H2471**	—	—
J	68	120VAC, 208VAC, 240VAC, 480VAC	1NO/1NC	25	50	CL08A311M	**H2471**	—	—
K	80		1NO/1NC	30	60	CL09A311M	**H2472**	LAR09A	**H2488**
L	96	24VAC, 120VAC, 208VAC, 240VAC, 480VAC	1NO/1NC	40	75	CL10A311M	**H2473**	LAR10A	**H2489**
D	22		1NO	7½	15	—	—	LAR25A	**H2495**
J	68		1NO/1NC	25	50	—	—	LAR08A	**H2487**

Works with Key	Current Range	MANUAL RESET TRIP CLASS 10 Mfr. Model	MANUAL RESET TRIP CLASS 10 Item No.	MANUAL AND AUTO RESET TRIP CLASS 10 Mfr. Model	MANUAL AND AUTO RESET TRIP CLASS 10 Item No.	MANUAL AND AUTO RESET TRIP CLASS 20 Mfr. Model	MANUAL AND AUTO RESET TRIP CLASS 20 Item No.
Overload Relays							
A to F	0.16 to 0.26A	RTN1B	**6CLH1**	—	—	—	—
A to F	0.25 to 0.41A	RTN1C	**6CLH2**	RT1C	**6CLE8**	—	—
A to F	0.40 to 0.65A	RTN1D	**6CLL5**	RT1D	**6CLE9**	RT12D	**6CLD4**
A to F	0.65 to 1.10A	RTN1F	**6CLH3**	RT1F	**6CLF0**	RT12F	**6CLD5**
A to F	1.00 to 1.50A	RTN1G	**6CLH4**	RT1G	**6CLF1**	RT12G	**6CLD6**
A to F	1.30 to 1.90A	RTN1H	**6CLH5**	RT1H	**6CLF2**	RT12H	**6CLD7**
A to F	1.80 to 2.70A	RTN1J	**6CLH6**	RT1J	**6CLF3**	—	—
A to F	2.50 to 4.10A	RTN1K	**6CLH7**	RT1K	**6CLF4**	RT12K	**6CLD8**
A to F	4.00 to 6.30A	RTN1L	**6CLH8**	RT1L	**6CLF5**	RT12L	**6CLD9**
A to F	5.50 to 8.50A	—	—	RT1M	**4LWH6**	RT12M	**6CLE0**
A to F	8.00 to 12.0A	RTN1N	**6CLJ0**	RT1N	**4LWH7**	RT12N	**6CLE1**
B to F	10.0 to 16.0A	RTN1P	**6CLJ1**	RT1P	**4LWH8**	RT12P	**6CLE2**
C to F	14.5 to 18.0A	RTN1S	**6CLJ2**	RT1S	**3HYK7**	RT12S	**6CLE3**
D to F	17.5 to 22.0A	RTN1T	**6CLJ3**	RT1T	**4LWJ1**	RT12T	**6CLE4**
E,F	21.0 to 26.0A	RTN1U	**6CLJ4**	RT1U	**3HYK9**	RT12U	**6CLE5**
E,F	25.0 to 32.0A	RTN1V	**6CLJ5**	RT1V	**4LWJ2**	RT12V	**6CLE6**
F	30.0 to 40.0A	RTN1W	**6CLJ6**	RT1W	**6CLF6**	—	—
G to L	11.5 to 15.0A	RTN2A	**6CLJ7**	RT2A	**6CLG4**	—	—
G to L	14.5 to 19.0A	RTN2B	**6CLJ8**	RT2B	**6CLG5**	—	—
G to L	18.5 to 25.0A	RTN2C	**6CLJ9**	RT2C	**6CLG6**	—	—
G to L	24.0 to 32.0A	RTN2D	**6CLK0**	RT2D	**6CLG7**	RT22D	**6CLF7**
G to L	30.0 to 43.0A	RTN2E	**6CLK1**	RT2E	**3HYL2**	RT22E	**6CLF8**
G to L	42.0 to 55.0A	RTN2G	**6CLK2**	RT2G	**4LWJ6**	RT22G	**6CLF9**
H to L	54.0 to 65.0A	RTN2H	**6CLK3**	RT2H	**4LWJ7**	RT22H	**6CLG0**
J to L	64.0 to 82.0A	RTN2J	**6CLK4**	RT2J	**6CLG8**	RT22J	**6CLG1**
L	78.0 to 97.0A	RTN2L	**6CLK5**	RT2L	**6CLG9**	RT22L	**6CLG2**
L	90.0 to 110A	RTN2M	**6CLK6**	RT2M	**6CLH0**	RT22M	**6CLG3**

Type	Mfr. Model	1 NO Item No.	1 NC Item No.
Auxiliary Contact Blocks			
Screw Clamp Terminals	BCLF	**6AMY3**	**6AMY1**
Screw Clamp Terminals, Overlapping Contacts	BCLF	**6AMY4**	**6AMY2**
Ring Terminals	BCRF	**6AMY6**	**6AMY5**

Delay Type	Terminal Type	Range of Time Delay 1.00 sec. to 30.00 sec. Item No.	Range of Time Delay 1.00 sec. to 60.00 sec. Item No.
IEC Timer Modules			
On Delay	Screw Clamp	**4LWE8**	**4LWE9**
	Ring	**6AMZ1**	**6AMZ3**
Off Delay	Screw Clamp	**4LWF1**	**4LWF2**
	Ring	**6AMZ2**	**6AMZ4**



Push-Button
No. 3CY82

Schneider Electric

IEC Manual Motor Starters

- Bimetallic thermal overload relays
- 3-pole
- Trip test
- Phase loss sensitivity protection
- 35mm DIN rail mounting
- Class 10 overload protection

Can be used alone for local, manual control of a single motor. Operating current of instantaneous magnetic trip is approx. 13 times the max. thermal trip (nonadjustable setting). 10K AIR at 480V. Mechanical and electrical life: 100,000 operations, max. 25 operations per hr. UL Listed and CSA Certified.



Rotary
No. 2MNH8

Overload Relay Amp Setting	PUSH BUTTON Item No.	ROTARY KNOB Item No.
0.1 to 0.16A	**2MNH5**	**2MNH8**
0.16 to 0.25A	**2MNH6**	**2MNH9**
0.25 to 0.4A	**3CY82**	**2MNJ1**
0.4 to 0.63A	**3CY83**	**2MNJ2**
0.63 to 1A	**3CY84**	**2MNJ3**
1 to 1.6A	**3CY85**	**2MNJ4**
1.6 to 2.5A	**3CY86**	**2MNJ5**
2.5 to 4A	**3CY87**	**2MNJ6**
4 to 6.3A	**3CY88**	**2MNJ7**
6 to 10A	**3CY89**	**2MNJ8**
9 to 14A	**3CY90**	**2MNJ9**
13 to 18A	**3CY91**	**2MNK1**
17 to 23A	**3CY92**	**2MNK2**
20 to 25A	**3CY93**	**2MNK3**
24 to 32A	**2MNH7**	**2MNK4**

Mounting	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Item No.
Auxiliary Contact			
Front	1	1	**3DA33**
Side	2	0	**3DA34**
Side	1	1	**3DA35**



Push-Button
No. 4WXG2

EATON

IEC Manual Motor Starters

- Bimetallic thermal overload relays
- 3-pole
- Trip test
- Phase loss sensitivity protection
- 35mm DIN rail mounting
- Class 10 overload protection

XT/PKZ Series features push-button or rotary On/Off manual disconnect with lockout provision. Available with screw terminals. Built-in heater and magnetic trip protect motor. Suitable for applications requiring manual starting and stopping of motors. UL 508 Type E and F rated with use of line side adapter. UL Listed and CSA Certified. Meet IEC standards.



Rotary
No. 4WXH7

Amps AC	PUSH BUTTON Item No.	ROTARY KNOB Item No.
0.10 to 0.16A	**4WXH3**	— —
0.16 to 0.25A	**4WXH4**	— —
0.25 to 0.40A	**4WXH5**	— —
0.40 to 0.63A	**4WXH6**	— —
0.63 to 1.00A	**4WXG2**	**4WXH7**
1.00 to 1.60A	**4WXG9**	**4WXK4**
1.60 to 2.50A	**4WXH1**	**4WXK5**
2.50 to 4.00A	**4WXG3**	**4WXH8**
4.00 to 6.30A	**4WXH2**	**4WXK6**
6.30 to 10.00A	**4WXG4**	**4WXH9**
8.00 to 12.00A	**4WXG5**	**4WXJ1**
10.00 to 16.00A	**4WXG6**	**4WXJ2**
16.00 to 20.00A	**4WXG7**	**4WXJ4**
20.00 to 25.00A	**4WXG8**	**4WXJ5**
25.00 to 32.00A	— —	**4WXJ7**

Definite Purpose Contactors

Square D 8910DP Series—Quick-connect terminals and binder head screws enable easy straight-through wiring. Double-break contacts. Mechanical life: 500,000 operations. Compact design. Box lugs are standard on 40A and higher models. Auxiliary contact modules snap onto either side of standard models. Suitable for air compressors, agricultural equipment, pumps, food service equipment, and HVACR equipment. 277VAC and 480VAC coil voltages available on Grainger.com®. UL Recognized and CSA Certified.

- 600VAC max.
- Industry-standard mounting

Dayton®—Captive screw and quick-connect terminals for easy wiring. Double-break contacts. Suitable for HVACR equipment. UL Recognized.

- 3-year warranty
- 60/50 Hz
- Nonreversing

Eaton C25 Series—Feature a compact, efficient design with a low VA coil and straight-through wiring. Housing design limits dust and other contaminants from magnet structure and reduces noise. 3- and 4-pole contactors are dual-rated for inductive and resistive ratings. Quick connect terminals and box lugs come standard on all contactors. UL Recognized.

- Direct replacement to most HVAC contactors
- Mounting holes align to 60 amps
- 600VAC max.



Square D
No. H2632



Dayton
No. H2664



Eaton
No. H4827



Dayton
No. H2669

No. of Poles	Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	SQUARE D Mfr. Model	SQUARE D Item No.	DAYTON Mfr. Model	DAYTON Item No.	EATON Mfr. Model	EATON Item No.
Compact Definite Purpose Contactors With Solid Neutral (Shunted)								
1	20	24VAC	8910DP11	**H2632**	—	**H2660**	—	—
1	25	120VAC	8910DP21	**H2633**	—	**H2661**	C25CNB125	**H4831**
1	30	208/240VAC	8910DP31	**H2634**	—	**H2662**	C25CNB130	**H4832**
1	40		8910DP41	**H2647**	—	**H2663**	C25CNB140	**H4833**
Compact Definite Purpose Contactors								
1	25		—	—	—	—	C25ANB125	**H4824**
1	30		—	—	—	—	C25ANB130	**H4825**
1	40	24VAC	—	—	—	—	C25ANB140	**H4826**
2	20	120VAC	8910DP12	**H2635**	—	**H2664**	C25BNB220	**H4827**
2	25	208/240VAC	8910DP22	**H2636**	—	**H2665**	C25BNB225	**H4828**
2	30		8910DP32	**H2637**	—	**H2666**	C25BNB230	**H4829**
2	40		8910DP42	**H2638**	—	**H2667**	C25BNB240	**H4830**
Standard Definite Purpose Contactors								
2	20		8910DPA12	**H2648**	—	**H2668**	—	—
2	25		8910DPA22	**H2649**	—	**H2669**	—	—
2	30		8910DPA32	**H2650**	—	**H2670** †	—	—
2	40		8910DPA42	**H2651**	—	**H2671**	—	—
2	50		8910DPA52	**H2639**	—	**H2672**	—	—
2	60		8910DPA62	**H2640**	—	**H2673** ‡	—	—
2	75		8910DPA72	**H2641**	—	**H2674**	—	—
2	90		8910DPA92	**H2642**	—	**H2675**	—	—
3	20		8910DPA13	**H2652**	—	**H2676**	—	—
3	25	24VAC	8910DPA23	**H2653**	—	**H2677**	C25DND325	**H4834**
3	30	120VAC	8910DPA33	**H2654**	—	**H2678** †	C25DND330	**H4835**
3	40	208/240VAC	8910DPA43	**H2655**	—	**H2679**	C25DNF340	**H4836**
3	50		8910DPA53	**H2643**	—	**H2680**	C25DNJ350	**H4837**
3	60		8910DPA63	**H2644**	—	**H2681** ‡	C25FNF360	**H4840**
3	75		8910DPA73	**H2645**	—	**H2682**	C25FNF375	**H4841**
3	90		8910DPA93	**H2646**	—	**H2683**	C25GNF390	**H4842**
4	20		8910DPA14	**H2656**	—	—	—	—
4	25		8910DPA24	**H2657**	—	—	C25END425	**H4838**
4	30		8910DPA34	**H2658**	—	—	C25END430	**H4839**
4	40		8910DPA44	**H2659**	—	—	—	—



Square D
No. H2654

Description	Brand	Mfr. Model	Item No.
NEMA 1 Enclosures and Accessory			
Fits: 2 and 3 Pole Definite Purpose Contactors, 20 to 40 Amps	Square D	9991DPG1	**4B978**
Fits: 2 and 3 Pole Definite Purpose Contactors 50 to 60 Amps, 4 Pole 20 to 40 Amps	Square D	9991DPG2	**2CG22**
Fits: 2 and 3 Pole Definite Purpose Contactors, 90 Amps	Square D	9991DPG4	**4DF74**
35mm DIN Rail Mounting Bracket for 20 to 60 Amp Contactors	Square D	9999DMB1	**2CG39**



Square D
No. 4B978

Description	Brand	Mfr. Model	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NO Item No.	2NC Item No.	2NO/2NC Item No.
Auxiliary Contacts*								
For Use with Standard Contactors 20 to 40A	Square D	9999DD	**11D183**	**11D184**	**5CHJ7**	**5CHJ8**	—	—
For Use with Standard Contactors 50 to 90A	Square D	9999D	**4B973**	**4B972**	**2CG37**	**2CG38**	—	—
For Use with Standard Contactors 2-Pole 50 to 90A, All 3-Pole	Dayton	—	**6GNU4**	**6GNU3**	**6GNT6**	**6GNT7**	**6GNZ8**	—
For Use with DP Contactors 15 to 75A	Eaton	C320	—	—	**49C108**	**49C106**	**49C107**	**49C109**
For Use with DP Contactors 90A	Eaton	C320DP	—	—	**49C110**	—	—	—

Description	▶CHOOSE: Voltage	Brand	Mfr. Model	Item No.
Replacement Coils For Standard Contactors*				
For 50 to 60A DP Contactors	24VAC; 120VAC; 208 to 240VAC; 277VAC; 480VAC	Square D	9998DA2	**H3829**
For 75 to 90A DP Contactors	24VAC; 120VAC; 208 to 240VAC; 480VAC	Square D	9998DA3	**H3830**
For 20 to 40A Contactors	24VAC; 120VAC; 208 to 240VAC	Dayton	—	**H3827**
For 50 to 63A Contactors	120VAC	Dayton	—	**H3825**
For 75 to 90A Contactors	24VAC	Dayton	—	**H3826**

Brands are not interchangeable, match to brand of contactor. † Rated 32A. ‡ Rated 63A.



No. H2686



No. H5238

Definite Purpose Motor Starters

- Melting alloy overload block
- 600VAC max.
- Industry-standard mounting
- 2-pole starters require 1 thermal unit
- 3-pole starters require 3 thermal units
- Match thermal unit code to thermal units on page 166

Quick-connect terminals and binder head screws enable easy straight-through wiring. Trip-free reset mechanism. Double-break contacts. Mechanical life: 500,000 operations. Compact design. Box lugs are standard on 40A and higher models. Auxiliary contact modules snap onto either side of standard models. Suitable for air compressors, agricultural equipment, pumps, food service equipment, and HVACR equipment. UL Recognized and CSA Certified.

No. of Poles	Amps AC	▶CHOOSE: Coil Volts	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NO ENCLOSURE Thermal Unit Code*	NO ENCLOSURE Mfr. Model	NO ENCLOSURE Item No.	NEMA 1 ENCLOSURE Thermal Unit Code*	NEMA 1 ENCLOSURE Mfr. Model	NEMA 1 ENCLOSURE Item No.
2	20	120VAC	1½	3	—	—	—	—	—	E1	8911DPSG12	**H5238**
2	25	120VAC	2	5	—	—	G2	8911DPSO22	**11W212**	—	—	—
2	25	120VAC; 208 to 240VAC	2	5	—	—	—	—	—	E2	8911DPSG22	**H2690**
2	30	24VAC; 120VAC; 208 to 240VAC; 480VAC	2	5	—	—	G3	8911DPSO32	**H2684**	E3	8911DPSG32	**H2691**
2	40	24VAC; 120VAC; 208 to 240VAC; 480VAC	3	7½	—	—	G4	8911DPSO42	**H2685**	E4	8911DPSG42	**H2692**
3	20	24VAC; 120VAC; 208 to 240VAC; 480VAC	1½	3	7½	7½	G1	8911DPSO13	**H2686**	F1	8911DPSG13	**H2693**
3	25	24VAC; 120VAC; 208 to 240VAC; 480VAC	2	5	10	15	—	—	—	F2	8911DPSG23	**H2694**
3	25	120VAC; 208 to 240VAC; 480VAC	2	5	10	15	G2	8911DPSO23	**H2687**	—	—	—
3	30	120VAC; 208 to 240VAC; 480VAC	2	5	10	15	G3	8911DPSO33	**H2688**	—	—	—
3	30	24VAC; 120VAC; 208 to 240VAC; 480VAC	2	5	10	15	—	—	—	F3	8911DPSG33	**H2695**
3	40	24VAC; 120VAC; 208 to 240VAC; 480VAC	3	7½	10	20	G4	8911DPSO43	**H2689**	F4	8911DPSG43	**H2696**

Description	Mfr. Model	Item No.
Optional Control Kits		
Start/Stop Push-Button Kit (Requires 1 Normally Open Aux. Contact No. 11D184)	8911DPB1	**3KL81**
Hand/Off/Auto Selector Switch Kit	8911DSS1	**3KL82**
Isolated Overload Relay Alarm Contact	9999SO4	**3KK15**

**** See page 166 for codes.***



Contactor
No. H2702



Motor Starter
No. H2697



Thermal Units
No. 6GDX1



Auxiliary Contact
No. 6GDW8

Full Load Amps	Mfr. Model	Item No.
Thermal Units, Freedom Series, For Use with Enclosed Starters Only, Pkg. of 3		
1.79 to 2.9	H2006B-3	**6GDX1**
2.15 to 3.49	H2007B-3	**6GDX2**
3.23 to 5.23	H2008B-3	**6GDX3**
4.55 to 7.4	H2009B-3	**6GDX4**
6.75 to 11	H2010B-3	**6GDX5**

Eaton Enclosed Definite Purpose Contactors and Starters

Dual-rated with inductive and resistive ratings. Quick connect terminals are standard. Contactor design limits dust and other contaminants from magnetic coil. Reduce or eliminate noise. Feature compact design with low VA coil and straight-through wiring. Motor starters require 3 thermal units (1 pkg.), sold separately. UL Listed, CSA and CE Certified. RoHS Compliant.

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	H	W	D	Mfr. Model	Item No.
Definite Purpose Contactors , 3-Pole										
15	24VAC 120VAC 208/240VAC 480VAC	¾	2	3	5	6.75"	4.10"	3.50"	C25DGD315	**H2702**
25		2	3	7½	10	6.75"	4.10"	3.50"	C25DGD325	**H2703**
30		2	5	10	15	6.75"	4.10"	3.50"	C25DGD330	**H2704**
40		3	7½	10	20	6.75"	4.10"	3.50"	C25DGF340	**H2705**
50		3	10	15	30	6.75"	4.10"	3.50"	C25DGJ350	**H2706**
60		5	10	20	40	9.51"	5.62"	4.81"	C25FGF360	**H2707**
Definite Purpose Magnetic Motor Starters , 3-Pole										
25	24VAC 120VAC 208/240VAC 480VAC	2	3	7½	10	10.17"	5.63"	5.81"	A25CGC25	**H2697**
30		2	5	10	15	10.17"	5.63"	5.81"	A25CGC30	**H2698**
40		3	7½	10	20	13.27"	7.64"	6.67"	A25CGE40	**H2699**
50		—	—	15	30	13.27"	7.64"	6.67"	A25CGE50	**H2700**
60		—	—	20	40	13.27"	7.64"	6.67"	A25CGE60	**H2701**

Full Load Amps	Mfr. Model	Item No.
9.14 to 14	H2011B-3	**6GDX6**
14 to 22.8	H2012B-3	**6GDX7**
18.7 to 30.7	H2013B-3	**6GDX8**
23.5 to 38.5	H2014B-3	**6GDX9**
29 to 44.1	H2015B-3	**6GDY0**
39.6 to 57.4	H2016B-3	**6GDY1**
53.9 to 74.9	H2017B-3	**6GDY2**

Amps	Voltage	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contacts, Side Mounting					
10	600	1	0	C320KG1	**6GDW8**
10	600	0	1	C320KG2	**6GDW9**
10	600	1	1	C320KG3	**6GDX0**



No. 5LUL1



No. 5LUL6

Vibration Switches

Feature SPDT and DPDT switch options, and are available with or without remote reset and a variety of voltages for the reset coil. Aluminum switches do not require external power to operate, and are explosion-, flame-, and weatherproof. NEMA 4 and 4X. UL and C-UL Listed. Plastic switches feature a weatherproof NEMA 4 housing and are CSA Certified.

Amps	Voltage	Temp. Range (°F)	Frequency Range (Hz)	Horiz. Range	L	W	H	Mfr. Model	Item No.
Aluminum									
0.5-7 Max.	—	-13 to 140	0 to 300	0 to 4.5 G	6"	6"	5.13"	365AA0	**5LUL1**
0.5-7 Max.	120VAC	-13 to 140	0 to 300	0 to 4.5 G	6"	6"	5.13"	365AA8	**5LUL2**
0.5-7 Max.	24VDC	-13 to 140	0 to 300	0 to 4.5 G	6"	6"	5.13"	365AA2	**5LUL3**
5 Max.	24VDC	-13 to 140	0 to 300	0 to 4.5 G	6"	6"	5.13"	365AD2	**5LUL4**
5 Max.	120VAC	-13 to 140	0 to 300	0 to 4.5 G	6"	6"	5.13"	365AD8	**5LUL5**
Plastic Cover, Aluminum Base									
0.5-7 Max.	—	-40 to 200	0 to 300	0 to 4.5 G	5.38"	3.75"	3.06"	366A0	**5LUL6**
0.5-7 Max.	120VAC	-40 to 200	0 to 300	0 to 4.5 G	5.38"	3.75"	3.06"	366A8	**5LUL7**
0.5-7 Max.	24VDC	-40 to 200	0 to 300	0 to 4.5 G	5.38"	3.75"	3.06"	366A2	**5LUL8**
5 Max.	120VAC	-40 to 200	0 to 300	0 to 4.5 G	5.38"	3.75"	3.06"	366D8	**5LUL9**

Amps AC	Voltage	No. of Poles	No. of Wires	NEMA 1 Siemens Mfr. Model	NEMA 1 Siemens Item No.	NEMA 1 Square D Mfr. Model	NEMA 1 Square D Item No.	NEMA 3R Siemens Mfr. Model	NEMA 3R Siemens Item No.	NEMA 3R Square D Mfr. Model	NEMA 3R Square D Item No.
1-Phase, Fusible, Neutral Assembly Included											
30	240VAC	2	3	HF221N	**6GNC7**	H221N	**1H328**	HF221NR	**6GNC8**	H221NRB	**1H329**
60	240VAC	2	3	HF222N	**20RA99**	H222N	**1H330**	HF222NR	**20RC04**	H222NRB	**1H331**
100	240VAC	2	3	HF223N	**20RC01**	H223N	**1H332**	HF223NR	**20RC05**	H223NRB	**1H333**
200	240VAC	2	3	HF224N	**20RC02**	H224N	**1H334**	HF224NR	**20RC06**	H224NRB	**1H335**
3-Phase, Fusible											
30	600VAC	3	3	HF361	**6GND3**	H361	**1H344**	HF361R	**6GND7**	H361RB	**1H349**
60	600VAC	3	3	HF362	**20RC23**	H362	**1H350**	HF362R	**20RC29**	H362RB	**1H355**
100	600VAC	3	3	HF363	**20RC24**	H363	**1H356**	HF363R	**6GNE2**	H363RB	**1H361**
200	600VAC	3	3	HF364	**20RC25**	H364	**1H362**	HF364R	**20RC30**	H364RB	**1H367**
3-Phase, Fusible, Neutral Assembly Included											
30	240VAC	3	4	HF321N	**6GNC9**	H321N	**1H336**	HF321NR	**6GND0**	H321NRB	**1H337**
60	240VAC	3	4	HF322N	**6GND1**	H322N	**1H338**	HF322NR	**6GND2**	H322NRB	**1H339**
100	240VAC	3	4	HF323N	**20RC03**	H323N	**1H340**	HF323NR	**20RC07**	H323NRB	**1H341**
200	240VAC	3	4	HF324N	**31ED29**	H324N	**1H342**	HF324NR	**31ED30**	H324NRB	**1H343**
30	600VAC	3	4	HF361N	**6GND5**	H361N	**1H347**	HF361NR	**6GND6**	H361NRB	**1H348**
60	600VAC	3	4	HF362N	**6GND9**	H362N	**1H353**	HF362NR	**6GNE0**	H362NRB	**1H354**
100	600VAC	3	4	HF363N	**6GNE1**	H363N	**1H359**	HF363NR	**20RC31**	H363NRB	**1H360**
200	600VAC	3	4	HF364N	**20RC27**	H364N	**1H365**	HF364NR	**6GNE3**	H364NRB	**1H366**
3-Phase, Nonfusible											
30	600VAC	3	3	HNF361	**6GNE7**	HU361	**1H373**	HNF361R	**6GNE9**	HU361RB	**1H375**
60	600VAC	3	3	HNF362	**6GNF1**	HU362	**1H376**	HNF362R	**20RC33**	HU362RB	**1H378**
100	600VAC	3	3	HNF363	**13Z538**	HU363	**1H379**	HNF363R	**6GNF2**	HU363RB	**1H381**
200	600VAC	3	3	HNF364	**13Z539**	HU364	**1H382**	HNF364R	**31ED51**	HU364RB	**1H384**

Amps AC	Voltage	No. of Poles	No. of Wires	NEMA 3R Square D Mfr. Model	NEMA 3R Square D Item No.	NEMA 12 Square D Mfr. Model	NEMA 12 Square D Item No.	NEMA 4, 4X, 5 Square D Mfr. Model	NEMA 4, 4X, 5 Square D Item No.
3-Phase, Nonfusible									
30	600VAC	3	3	—	—	HU361AWK	**2CR39**	HU361DS	**1H374**
60	600VAC	3	3	—	—	HU362AWK	**2CR52**	HU362DS	**1H377**
100	600VAC	3	3	—	—	HU363AWK	**2CR60**	HU363DS	**1H380**
200	600VAC	3	3	—	—	HU364AWK	**2CR65**	HU364DS	**1H383**
400	600VAC	3	3	—	—	HU365AWK	**2JYD6**	HU365DS	**2JYD7**
3-Phase, Nonfusible, Neutral Assembly Included									
30	600VAC	3	4	HU361NRB	**2JXV2**	HU361NAWK	**2JXX4**	—	—
60	600VAC	3	4	—	—	HU362NAWK	**2JYR8**	—	—
100	600VAC	3	4	HU363NRB	**2JWR1**	HU363NAWK	**2JWE5**	—	—
200	600VAC	3	4	HU364NRB	**2JXP9**	HU364NAWK	**2JXJ6**	—	—



Siemens
No. 20RA99



Square D
No. 1H344

SQUARE D by Schneider Electric

SIEMENS

Heavy-Duty Safety Switches

Higher amp ratings and NEMA 4X and 12 enclosures are available on Grainger.com®.

NOTE: 600V 30 to 200A switches are field adjustable for Class J fuses.

SIEMENS

Designed with quick-make, quick-break switching action for severe applications. Feature highly visible self-aligning blades to ensure positive contact and highly visible On/Off handle indication. Padlockable cover latch and handle.

SQUARE D

Designed to withstand short circuits up to 200kA rating when used with, or protected by, Class R fuses with Class R kits installed (this page). See Class RK5 fuses on page 178. Switches meet NEMA Standards KS1-1990, Enclosed Switches, and UL 98. UL Listed.

Safety Switch Accessories

SQUARE D by Schneider Electric

Description	30 AMP Item No.	60 AMP Item No.	100 AMP Item No.	200 AMP Item No.
Interlock Kit, for All General Duty (30 to 200A) and Heavy-Duty Switches				
1NO/1NC	**5JV22**	**2CP56**	**2CP56**	**2CP56**
2NO/2NC	**5JV23**	**2CP57**	**2CP57**	**2CP57**
Equipment Ground Kit				
General Duty	**5B717**	**5B717**	**2BW64**	**2DH17**
Heavy Duty	**2GND8**	**2BW64**	**2BW64**	**2DH17**
Double Throw	**1H313**	**Included**	**Included**	**1H312**
Neutral Assembly For Double Throw and Heavy-Duty Switches				
Heavy Duty	**6NU11**	**2GNE5**	**2GNE5**	—
Double Throw	**2GNE3**	**2GNE3**	**2GNE3**	—
Fuse Kits				
Class R	**6NU10**	**2GNF1**	**2CR86**	**1H368**

½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Hubs, Chrome Plated Watertight for NEMA 4X and NEMA 12 Disconnect Switches					
1H324	**1H325**	**1H326**	—	—	—
Bolt-On Hubs for NEMA 3R Disconnect Switches					
—	**1H301**	**1H302**	**1H303**	**1H304**	**1H305**



No. 2BW64



No. 1H312



No. 6NU11



No. 2DH17



No. 1H326



No. 1H301

Amps	NEMA Encl. Type	W	H	D	Mfr. Model	Item No.
Switched Twist-Lock® Enclosure (Receptacles Not Included)						
30	3R, 12K	4.9"	11.4"	4.2"	SETL3	**6C655**
Mechanical Interlock for Safety Shroud Twist-Locks						
30	4, 4X, 12K	4.9"	11.4"	4.2"	HBLMITL	**4CV76**
Circuit-Lock Disconnect Switches, 3-Pole						
30	4, 4X, 12K	5.1"	7.6"	4.1"	HBLDS3	**3D383**
30	4, 4X, 12K	5.1"	7.6"	4.1"	HBLDS3AC	**2EAV9** *
30	4, 4X, 12K	5.1"	7.6"	4.1"	HBLDS33ACNK	**2EAV8** *†
30	4, 4X, 12K	4.9"	7"	5.4"	HBLDS3SS	**36L204**
60	4, 4X, 12K	6.9"	10"	5.9"	HBLDS6	**4CV74**
60	4, 4X, 12K	6.9"	10"	5.9"	HBLDS6AC	**2EAW3** *
100	4, 4X, 12K	6.9"	10"	5.9"	HBLDS10	**2EAV6**
100	4, 4X, 12K	6.9"	10"	5.9"	HBLDS10AC	**4CV73** *
Fused Switched Safety Enclosure, 3-Pole, Use with Class J Fuses						
30	4, 4X, 12K	11.5"	15"	7.3"	FDS30	**3D340**
60	4, 4X, 12K	11.5"	15"	7.3"	FDS60	**2EAU7**
Circuit-Lock® Accessories						
Auxiliary Contact; Break After Break; 30, 60, and 100 Amp; Max Voltage 600; For Use With 3D383, 4CV74, and 2EAV6					HBLAC1	**2EAV4**
Auxiliary Contact; Break Before Break; 30, 60, and 100 Amp; Max Voltage 600; For Use With 3D383, 4CV74, and HBLDS11					HBLAC2	**2EAV5**
NEMA 4X; Replacement Cover; Nonfused; 100 Amp					HBLDS10RC	**2EAV7**
NEMA 4X; Replacement Cover; Nonfused; 30 Amp					HBLDS3RC	**2EAW1**
NEMA 4X; Replacement Cover; Nonfused; 60 Amp					HBLDS6RC	**2EAW4**
Replacement Switch; Nonfused; 30 Amp; Max Voltage 600					HBLDS3RS	**2EAW2**

Includes No. 3D305 Auxiliary Contact Kit preinstalled. † Without knockouts.

HUBBELL® Wiring Device-Kellems

Switched Enclosures

TWIST-LOCK® ENCLOSURE

Nonmetallic enclosure has large, replaceable, gasketless door and hinge assembly for easy access and weatherproofing. Receptacle not included; order separately. Use with any NEMA rated 2-pole, 3-wire to 4-pole, 5-wire Twist-Lock® receptacle.

CIRCUIT-LOCK® DISCONNECT SWITCH ENCLOSURES

Nonmetallic enclosures have strong, galvanized steel internal frame that bonds grounds and a watertight conduit fitting. They enclose disconnect switches that provide On/Off switched control of direct-wired motor loads.



No. 3D383



Air Conditioning Disconnect Switches

For indoor or outdoor use.

Amps AC	Voltage	Short Circuit Protection	For Use With	Max. HP @ 240V	W	H	D	Brand	Mfr. Model	Item No.
Polycarbonate										
30	240VAC	Fuse	Class RK1 Fuse	3 HP	5"	8 45/64"	3 1/2"	Eaton	ACD221RNM-A2	**5XHR5**
60	240VAC	None	—	10 HP	5"	8 45/64"	3 1/2"	Eaton	ACD222URNM-A2	**5XHR3**
60	240VAC	Fuse	Class RK1 Fuse	10 HP	5"	8 45/64"	3 1/2"	Eaton	ACD222RNM-A2	**5XHR4**
60	240VAC	Circuit Breaker	—	10 HP	6 1/2"	8.8"	3 29/32"	Square D	QO200TRNM	**6HD95**
Galvanized Steel										
30	240VAC	Fuse	Class H Fuse	3 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPF221R	**5XHR1**
60	240VAC	None	—	10 HP	4 39/64"	6 1/2"	3 29/32"	Square D	QO200TR	**1H245**
60	240VAC	None	—	10 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPU222R	**5XHP9**
60	240VAC	None	—	10 HP	6 39/64"	11 39/64"	4 13/32"	Eaton	DPU222RGF20	**5XHR2** *
60	240VAC	Fuse	Class H Fuse	10 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPF222R	**5XHR0**

Includes 20A GFCI receptacle.





SIEMENS

General-Duty Safety Switches

Fast and reliable switches are primarily intended for use with circuits where the available current is less than 100,000A when used with Class R or T fuses or 10,000A max. used with Class H fuses. Feature quick–make, quick-break, and visible blade switching action. Padlockable in OFF position and door in closed position. Suitable for use as service entrance equipment. Require equipment grounding kit; see page 175. Switches meet UL 98. UL Listed.

Amps AC	Voltage	No. of Poles	No. of Wires	For Use With	NEMA 1 Siemens Mfr. Model	NEMA 1 Siemens Item No.	NEMA 1 Square D Mfr. Model	NEMA 1 Square D Item No.	NEMA 3R Siemens Mfr. Model	NEMA 3R Siemens Item No.	NEMA 3R Square D Mfr. Model	NEMA 3R Square D Item No.
1-Phase, Nonfusible												
30	240VAC	2	2	Class H, R, T Fuse	GNF221A	**55CH43**	—	—	GNF221RA	**55CH54**	—	—
30	240VAC	2	2	—	—	—	—	—	—	—	DU221RB	**1H259**
60	240VAC	2	2	Class H, R, T Fuse	GNF222A	**55CH53**	—	—	LNF222RA	**55CH42**	—	—
60	240VAC	2	2	Class H, R, T Fuse	—	—	—	—	GNF222RA	**55CH52**	—	—
60	240VAC	2	2	—	—	—	—	—	—	—	DU222RB	**2CL85**
1-Phase, Fusible												
30	240VAC	2	3	Plug Style Fuse	—	—	D211N	**1H246**	—	—	D211NRB	**2JXU1**
30	240VAC	2	3	Class H, R, T Fuse	GF221NA	**55CH51**	—	—	GF221NRA	**55CH50**	—	—
30	240VAC	2	3	Class H, K, R, T Fuse	—	—	D221N	**1H247**	—	—	D221NRB	**1H248**
60	240VAC	2	3	Class H, R, T Fuse	GF222NA	**55CH49**	—	—	GF222NRA	**55CH48**	—	—
60	240VAC	2	3	Class H, K, R, T Fuse	—	—	D222N	**1H249**	—	—	D222NRB	**1H250**
100	240VAC	2	3	Class H, K, R, T Fuse	GF223N	**6FNF6**	D223N	**5B662**	GF223NR	**6FNF7**	D223NRB	**1H251**
200	240VAC	2	3	Class H, K, R, T Fuse	—	—	D224N	**2CL71**	—	—	D224NRB	**2CL72**
1-Phase with Circuit Breaker												
100	240VAC	2	2	—	—	—	QO2000NS	**2DP82** *	—	—	QO2000NRB	**2DP81** *
3-Phase, Fusible												
30	240VAC	3	3	Class H, R, T Fuse	GNF321A	**55CH41**	—	—	—	—	—	—
30	240VAC	3	3	—	—	—	DU321	**1H260**	—	—	DU321RB	**1H261**
60	240VAC	3	3	Class H, R, T Fuse	GNF322A	**55CH39**	—	—	GNF322RA	**55CH38**	—	—
60	240VAC	3	3	—	—	—	DU322	**1H262**	GNF321RA	**55CH40**	DU322RB	**1H263**
100	240VAC	3	3	—	—	—	DU323	**1H264**	—	—	DU323RB	**1H265**
200	240VAC	3	3	—	—	—	DU324	**2JYW1**	—	—	DU324RB	**2CL87**
3-Phase, Fusible												
30	240VAC	3	4	Class H, R, T Fuse	GF321NA	**55CH47**	—	—	GF321NRA	**55CH46**	—	—
30	240VAC	3	4	Class H, K, R, T Fuse	—	—	D321N	**1H252**	—	—	D321NRB	**1H253**
60	240VAC	3	4	Class H, R, T Fuse	GF322NA	**55CH45**	—	—	GF322NRA	**55CH44**	—	—
60	240VAC	3	4	Class H, K, R, T Fuse	—	—	D322N	**1H254**	—	—	D322NRB	**1H255**
100	240VAC	3	4	Class H, K, R, T Fuse	—	—	D323N	**1H256**	GF323NR	**6FNG2**	D323NRB	**1H257**
200	240VAC	3	4	Class H, K, R, T Fuse	GF324N	**6FNG3**	D324N	**1H258**	GF324NR	**6FNG4**	D324NRB	**2CL77**

Description	Voltage	Mfr. Model	Item No.
Siemens Safety Switch Accessories			
10A Auxiliary Contact, 1NO/1NC	240V	HA161234	**6FNG9**
30/60A Neutral Kit	600V	HN612	**6GNE4**
60/100A Neutral Kit	600V	HN623	**6GNE5**

Includes circuit breaker.

Description	Voltage	Mfr. Model	Item No.
200A Neutral Kit	600V	HN64	**6GNE6**
30A Fuse Rejection Kit, Class R	240VAC	HR21	**6GNF3**
30/60A Fuse Rejection Kit, Class R	240/600VAC	HR612	**6GNF4**
60A Fuse Rejection Kit, Class R	600VAC	HR62	**6GNF5**
100A Fuse Rejection Kit, Class R	600VAC	HR63	**6GNF6**
200A Fuse Rejection Kit, Class R	600VAC	HR64	**6GNF7**

Double-Throw Safety Switches

Each switch is continuous-duty rated for its nameplate ampere value. Equipment grounding kits are available for service equipment and included in 30 to 100A DTU devices. NEMA Type 3R switches use bolt-on hubs; see page 175. All switches meet UL 98 Standard for Safety, Enclosed, and Dead Front Switches, and meet or exceed NEMA Standard KS1-1990.



Amps AC	HP	Voltage	NONFUSIBLE NEMA 1 Mfr. Model	NONFUSIBLE NEMA 1 Item No.	NONFUSIBLE NEMA 3R Mfr. Model	NONFUSIBLE NEMA 3R Item No.	FUSIBLE NEMA 1 Mfr. Model	FUSIBLE NEMA 1 Item No.	FUSIBLE NEMA 3R Mfr. Model	FUSIBLE NEMA 3R Item No.
2-Pole										
30	—	240VAC	92251	**1H299**	—	—	—	—	—	—
60	10 HP @ 240VAC	240VAC/DC	DTU222	**1MN30**	—	—	—	—	—	—
100	15 HP @ 240VAC	240VAC/DC	DTU223	**1MN31**	DTU223RB	**1MN40**	DT223	**2JWC3**	DT223RB	**2JWC5**
200	15 HP @ 240VAC	240VAC/DC	—	—	DTU224NRB	**2JYV9**	—	—	—	—
3-Pole										
30	10 HP @ 240VAC	240VAC	DTU321	**1MN32**	—	—	DT321	**2JXV8**	DT321RB	**2JXW1**
30	20 HP @ 600VAC	600VAC	—	—	—	—	DT361	**2JXW3**	DT361RB	**2JXW5**
30	30 HP @ 600VAC	600VAC	DTU361	**1MN35**	DTU361RB	**41V405**	—	—	—	—
60	15 HP @ 240VAC	240VAC	DTU322	**1MN33**	—	—	DT322	**2JYP7**	DT322RB	**2JYP8**
60	50 HP @ 600VAC	600VAC	DTU362	**1MN36**	DTU362RB	**1MN43**	DT362	**2JYP9**	—	—
100	30 HP @ 240VAC	240VAC	DTU323	**1MN34**	DTU323RB	**1MN41**	DT323	**2JWC7**	DT323RB	**2JWC9**
100	75 HP @ 600VAC	600VAC	DTU363	**1MN37**	DTU363RB	**1MN44**	DT363	**2JWD2**	DT363RB	**2JWD4**
200	15 HP @ 240VAC	240VAC	82354	**1H298**	DTU324NRB	**1H317**	—	—	—	—
200	15 HP @ 480VAC	480VAC	82344	**1H294**	82344RB	**1H295**	—	—	—	—
4-Pole										
100	75 HP @ 600VAC	600VAC	DTU463	**41V407**	—	—	—	—	—	—





IEC Disconnect Switches

Switches are suitable for use as a motor disconnect. "On/Off" indicator and built-in handle interlock that prevents cover removal in "On" position. OSHA lockout/tagout compatible and accepts up to three 8mm padlocks. UL Listed.

Amps	No. of Poles	No. of Wires	NEMA Encl. Type	Brand	RED HANDLE Item No.	RED HANDLE WITH KNOCKOUTS Item No.	BLACK HANDLE Item No.	BLACK HANDLE WITH KNOCKOUTS Item No.
25	3	3	3R, 12	Dayton	**35JF51**	**35JF55**	**35JF59**	**35JF63**
30	3	4	1, 3R, 4, 4X, 12	Square D	**13E228**	—	—	—
32	3	3	3R, 12	Dayton	**35JF52**	**35JF56**	**35JF60**	**35JF64**
50	3	3	3R, 12	Dayton	**35JF53**	**35JF57**	**35JF61**	**35JF65**
60	3	4	1, 3R, 4, 4X, 12	Square D	**13E229**	—	—	—
63	3	3	3R, 12	Dayton	**35JF54**	**35JF58**	**35JF62**	**35JF66**

Class RK1

FERRAZ SHAWMUT IS NOW MERSEN

These fuses are more current-limiting than RK5 fuses to react more quickly to overcurrent. They have a rejection feature that prevents an accidental downgrade from a current-limiting system.



No. 1DG46

Fuse Size Chart

Amps	Length (in.)	Dia. (in.)	Amps	Length (in.)	Dia. (in.)
250VAC			**600VAC**		
1/10-30	2	9/16	1/10-30	5	13/16
35-60	3	13/16	35-60	5 1/2	1 1/16
70-100	5 1/8	1 1/16	70-100	7 1/8	1 1/8
110-200	7 1/8	1 9/16	110-200	9 5/8	1 13/32
225-400	8 5/8	2 3/8	225-400	11 5/8	2 3/8
450-600	10 3/8	2 1/8	450-600	13 3/8	2 1/8

Amps	Series	Brand	Item No.
250VAC Time-Delay UL Class			
RK1 Fuses, Nonindicating			
Equivalent Series A2D-R, LLNRK, LPN-RK-SP			
Cylindrical Body Style			
1/10	A2D-R	Mersen	**4TAV4**
15/100	A2D-R	Mersen	**4TAV5**
2/10	A2D-R	Mersen	**4TAV6**
3/10	A2D-R	Mersen	**4TAV7**
4/10	A2D-R	Mersen	**4TAV8**
1/2	LPN-RK-SP	Bussmann	**1DG98**
1/2	A2D-R	Mersen	**4TAV9**
5/10	LPN-RK-SP	Bussmann	**1DH16**
5/10	A2D-R	Mersen	**4TAW1**
8/10	LPN-RK-SP	Bussmann	**1DH19**
8/10	A2D-R	Mersen	**4TAW2**
1	LPN-RK-SP	Bussmann	**1DH01**
1	A2D-R	Mersen	**4TAW3**
1	LLNRK	Littelfuse	**486N04**
1 1/8	LPN-RK-SP	Bussmann	**49ZV03**
1 1/8	A2D-R	Mersen	**4TAW4**
1 1/4	LPN-RK-SP	Bussmann	**1DG92**
1 1/4	A2D-R	Mersen	**4TAW5**
1 4/10	A2D-R	Mersen	**4TAW6**
1 5/10	LPN-RK-SP	Bussmann	**1DG95**
1 5/10	A2D-R	Mersen	**4TAW7**
1 8/10	A2D-R	Mersen	**4TAW8**
1 8/10	LPN-RK-SP	Bussmann	**4TWU8**
2	LPN-RK-SP	Bussmann	**1DH06**
2	A2D-R	Mersen	**4TAW9**
2	LLNRK	Littelfuse	**486N05**
2 1/4	A2D-R	Mersen	**4TAX1**
2 1/2	LPN-RK-SP	Bussmann	**1DH02**
2 1/2	A2D-R	Mersen	**4TAX2**
2 8/10	LPN-RK-SP	Bussmann	**1DH04**
2 8/10	A2D-R	Mersen	**4TAX3**
3	LPN-RK-SP	Bussmann	**1DH09**
3	A2D-R	Mersen	**4TAX4**
3	LLNRK	Littelfuse	**486N06**
3 2/10	LPN-RK-SP	Bussmann	**1DH08**
3 3/10	A2D-R	Mersen	**4TAX5**
3 1/2	LPN-RK-SP	Bussmann	**1DH07**
3 1/2	A2D-R	Mersen	**4TAX6**
4	A2D-R	Mersen	**4TAX7**
4	LPN-RK-SP	Bussmann	**4TWX1**
4 1/2	LPN-RK-SP	Bussmann	**1DH10**
4 1/2	A2D-R	Mersen	**4TAX8**
5	LPN-RK-SP	Bussmann	**1DH14**
5	A2D-R	Mersen	**4TAX9**
5	LLNRK	Littelfuse	**486N07**
5 5/10	LPN-RK-SP	Bussmann	**1DH13**
5 5/10	A2D-R	Mersen	**4TAY1**
6	LPN-RK-SP	Bussmann	**1DH18**
6	A2D-R	Mersen	**4TAY2**
6	LLNRK	Littelfuse	**486N08**
6 1/4	LPN-RK-SP	Bussmann	**1DH15**
6 1/4	A2D-R	Mersen	**4TAY3**
7	A2D-R	Mersen	**4TAY4**
8	LPN-RK-SP	Bussmann	**1DH20**
8	LLNRK	Littelfuse	**486N09**
9	LPN-RK-SP	Bussmann	**1DH21**
10	LPN-RK-SP	Bussmann	**4XF52**
10	LLNRK	Littelfuse	**486N10**
12	LPN-RK-SP	Bussmann	**6F311**
15	LPN-RK-SP	Bussmann	**4XF53**
15	LLNRK	Littelfuse	**486N11**
17 1/2	LPN-RK-SP	Bussmann	**6F312**
20	LPN-RK-SP	Bussmann	**4XF54**
20	LLNRK	Littelfuse	**486N12**
25	LPN-RK-SP	Bussmann	**4XF55**
25	LLNRK	Littelfuse	**486N13**
30	LPN-RK-SP	Bussmann	**4XF56**
30	LLNRK	Littelfuse	**486N14**
35	LPN-RK-SP	Bussmann	**6F313**
35	LLNRK	Littelfuse	**486N15**
40	LPN-RK-SP	Bussmann	**6F314**
40	LLNRK	Littelfuse	**486N16**
45	LPN-RK-SP	Bussmann	**6F315**
45	LLNRK	Littelfuse	**486N17**
50	LPN-RK-SP	Bussmann	**4XF57**
50	LLNRK	Littelfuse	**486N18**
60	LPN-RK-SP	Bussmann	**4XF58**
60	LLNRK	Littelfuse	**486N19**
Blade Body Style			
70	LPN-RK-SP	Bussmann	**4XF59**
70	LLNRK	Littelfuse	**486N20**
80	LPN-RK-SP	Bussmann	**4XF60**
80	LLNRK	Littelfuse	**486N21**
90	LPN-RK-SP	Bussmann	**6F316**
90	LLNRK	Littelfuse	**486N22**
100	LPN-RK-SP	Bussmann	**4XF61**
100	LLNRK	Littelfuse	**486N23**
110	LPN-RK-SP	Bussmann	**6F317**
110	LLNRK	Littelfuse	**486N24**
125	LPN-RK-SP	Bussmann	**4XF62**
125	LLNRK	Littelfuse	**486N25**
150	LPN-RK-SP	Bussmann	**4XF63**
150	LLNRK	Littelfuse	**486N26**
175	LPN-RK-SP	Bussmann	**4XF64**
175	LLNRK	Littelfuse	**486N27**
200	LPN-RK-SP	Bussmann	**4XF65**
200	LLNRK	Littelfuse	**486N28**
225	LPN-RK-SP	Bussmann	**4XF66**
250	LPN-RK-SP	Bussmann	**6F318**
250	LLNRK	Littelfuse	**486N29**
300	LPN-RK-SP	Bussmann	**4XF67**
300	LLNRK	Littelfuse	**486N30**
350	LPN-RK-SP	Bussmann	**4TWU9**
400	LPN-RK-SP	Bussmann	**4XF68**
400	LLNRK	Littelfuse	**486N31**
500	LPN-RK-SP	Bussmann	**6F321**
600	LPN-RK-SP	Bussmann	**6F322**
600	LLNRK	Littelfuse	**486N32**
600VAC Time-Delay UL Class			
RK1 Fuses, Nonindicating			
Equivalent Series A6D-R, LLSRK, LPS-RK-SP			
Cylindrical Body Style			
1/10	A6D-R	Mersen	**4TCD1**
15/100	A6D-R	Mersen	**4TCD2**
2/10	A6D-R	Mersen	**4TCD3**
3/10	A6D-R	Mersen	**4TCD4**
4/10	LPS-RK-SP	Bussmann	**1CL68**
4/10	A6D-R	Mersen	**4TCD5**
1/2	LPS-RK-SP	Bussmann	**1BW73**
1/2	A6D-R	Mersen	**4TCD6**
6/10	A6D-R	Mersen	**4TCD7**
8/10	A6D-R	Mersen	**4TCD8**
8/10	LPS-RK-SP	Bussmann	**4TWX3**
1	LPS-RK-SP	Bussmann	**1BW74**
1	A6D-R	Mersen	**4TCD9**
1 1/8	A6D-R	Mersen	**4TCE1**
1 1/8	LPS-RK-SP	Bussmann	**4TWX2**
1 1/4	LPS-RK-SP	Bussmann	**1BW67**
1 1/4	A6D-R	Mersen	**4TCE2**
1 4/10	LPS-RK-SP	Bussmann	**1BW69**
1 4/10	A6D-R	Mersen	**4TCE3**
1 1/2	LPS-RK-SP	Bussmann	**1BW66**
1 5/10	LPS-RK-SP	Bussmann	**1BW70**
1 5/10	A6D-R	Mersen	**4TCE4**
1 8/10	LPS-RK-SP	Bussmann	**1BW71**
1 8/10	A6D-R	Mersen	**4TCE5**
2	LPS-RK-SP	Bussmann	**1CL62**
2	A6D-R	Mersen	**4TCE6**
2	LLSRK	Littelfuse	**486N33**
2 1/4	LPS-RK-SP	Bussmann	**1CL59**
2 1/4	A6D-R	Mersen	**4TCE7**
2 1/2	LPS-RK-SP	Bussmann	**1CL58**
2 1/2	A6D-R	Mersen	**4TCE8**
2 8/10	LPS-RK-SP	Bussmann	**1CL60**
2 8/10	A6D-R	Mersen	**4TCE9**
3	LPS-RK-SP	Bussmann	**1CL66**
3	A6D-R	Mersen	**4TCF1**
3	LLSRK	Littelfuse	**486N34**
3 2/10	LPS-RK-SP	Bussmann	**1CL64**
3 2/10	A6D-R	Mersen	**4TCF2**
3 1/2	LPS-RK-SP	Bussmann	**1CL63**
3 1/2	A6D-R	Mersen	**4TCF3**
4	LPS-RK-SP	Bussmann	**1CL69**
4	A6D-R	Mersen	**4TCF4**
4 1/2	LPS-RK-SP	Bussmann	**1CL67**
4 1/2	A6D-R	Mersen	**4TCF5**
5	LPS-RK-SP	Bussmann	**1BW75**
5	A6D-R	Mersen	**4TCF6**
5	LLSRK	Littelfuse	**486N35**
5 5/10	LPS-RK-SP	Bussmann	**1CL70**
5 5/10	A6D-R	Mersen	**4TCF7**
6	LPS-RK-SP	Bussmann	**1BW77**
6	A6D-R	Mersen	**4TCF8**
6	LLSRK	Littelfuse	**486N36**
6 1/4	LPS-RK-SP	Bussmann	**1BW76**
6 1/4	A6D-R	Mersen	**4TCF9**
7	LPS-RK-SP	Bussmann	**1BW78**
7	A6D-R	Mersen	**4TCG1**
7	LLSRK	Littelfuse	**486N37**
8	LPS-RK-SP	Bussmann	**1BW80**
9	LPS-RK-SP	Bussmann	**1EM24**
10	LPS-RK-SP	Bussmann	**4XF69**
10	LLSRK	Littelfuse	**486N38**
12	LPS-RK-SP	Bussmann	**4XF70**
15	LPS-RK-SP	Bussmann	**4XF71**
15	LLSRK	Littelfuse	**486N39**
17 1/2	LPS-RK-SP	Bussmann	**4XF72**
20	LPS-RK-SP	Bussmann	**4XF73**
20	LLSRK	Littelfuse	**486N40**
25	LPS-RK-SP	Bussmann	**4XF74**
25	LLSRK	Littelfuse	**486N41**
30	LPS-RK-SP	Bussmann	**4XF75**
30	LLSRK	Littelfuse	**486N42**
35	LPS-RK-SP	Bussmann	**6F323**
35	LLSRK	Littelfuse	**486N43**
40	LPS-RK-SP	Bussmann	**4XF76**
40	LLSRK	Littelfuse	**486N44**
45	LPS-RK-SP	Bussmann	**6F324**
45	LLSRK	Littelfuse	**486N45**
50	LPS-RK-SP	Bussmann	**4XF77**
50	LLSRK	Littelfuse	**486N46**
60	LPS-RK-SP	Bussmann	**4XF78**
60	LLSRK	Littelfuse	**486N47**
Blade Body Style			
70	LPS-RK-SP	Bussmann	**4XF79**
70	LLSRK	Littelfuse	**486N48**
80	LPS-RK-SP	Bussmann	**6F325**
80	LLSRK	Littelfuse	**486N49**
90	LPS-RK-SP	Bussmann	**6F326**
90	LLSRK	Littelfuse	**486N50**
100	LPS-RK-SP	Bussmann	**4XF80**
100	LLSRK	Littelfuse	**486N51**
110	LPS-RK-SP	Bussmann	**6F327**
110	LLSRK	Littelfuse	**486N52**
125	LPS-RK-SP	Bussmann	**4XF81**
125	LLSRK	Littelfuse	**486N53**
150	LPS-RK-SP	Bussmann	**6F328**
150	LLSRK	Littelfuse	**486N54**
175	LPS-RK-SP	Bussmann	**6F329**
175	LLSRK	Littelfuse	**486N55**
200	LPS-RK-SP	Bussmann	**4XF82**
200	LLSRK	Littelfuse	**486N56**
225	LPS-RK-SP	Bussmann	**6F330**
225	LLSRK	Littelfuse	**486N57**
250	LPS-RK-SP	Bussmann	**6F331**
250	LLSRK	Littelfuse	**486N58**
300	LPS-RK-SP	Bussmann	**6F332**
300	LLSRK	Littelfuse	**486N59**
350	LPS-RK-SP	Bussmann	**6F333**
350	LLSRK	Littelfuse	**486N60**
400	LPS-RK-SP	Bussmann	**4XF83**
400	LLSRK	Littelfuse	**486N61**
450	LPS-RK-SP	Bussmann	**6F334**
500	LPS-RK-SP	Bussmann	**6F335**
600	LPS-RK-SP	Bussmann	**4XF84**
250VAC Time-Delay UL Class			
RK1 Fuses, Indicating			
Equivalent Series A2D-R, LLNRK, LPN-RK-SP			
Cylindrical Body Style			
8	A2D-R	Mersen	**4TAY5**
9	A2D-R	Mersen	**4TAY6**
10	A2D-R	Mersen	**4TAY7**
12	A2D-R	Mersen	**4TAY8**
15	A2D-R	Mersen	**4TAY9**
17 1/2	A2D-R	Mersen	**4TAZ1**
20	A2D-R	Mersen	**4TAZ2**
25	A2D-R	Mersen	**4TAZ3**
30	A2D-R	Mersen	**4TAZ4**
35	LPN-RK-SPI	Bussmann	**2AAJ9**
35	A2D-R	Mersen	**4TAZ5**
40	LPN-RK-SPI	Bussmann	**1PVT3**
40	A2D-R	Mersen	**4TAZ6**
45	LPN-RK-SPI	Bussmann	**1PVT5**
45	A2D-R	Mersen	**4TAZ7**
50	LPN-RK-SPI	Bussmann	**1PVT7**
50	A2D-R	Mersen	**4TAZ8**
60	LPN-RK-SPI	Bussmann	**1PVU1**
60	A2D-R	Mersen	**4TAZ9**
Blade Body Style			
70	A2D-R	Mersen	**4TCA1**
70	LPN-RK-SPI	Bussmann	**5NLE4**
75	A2D-R	Mersen	**4TCA2**
80	A2D-R	Mersen	**4TCA3**
80	LPN-RK-SPI	Bussmann	**5NLE5**
90	A2D-R	Mersen	**4TCA4**
90	LPN-RK-SPI	Bussmann	**5NLE6**
100	A2D-R	Mersen	**4TCA5**
100	LPN-RK-SPI	Bussmann	**5NLE3**
110	LPN-RK-SPI	Bussmann	**2AAH9**
110	A2D-R	Mersen	**4TCA6**
125	LPN-RK-SPI	Bussmann	**2AAJ1**
125	A2D-R	Mersen	**4TCA7**
150	LPN-RK-SPI	Bussmann	**2AAJ2**
150	A2D-R	Mersen	**4TCA8**
175	LPN-RK-SPI	Bussmann	**2AAJ3**
175	A2D-R	Mersen	**4TCA9**
200	LPN-RK-SPI	Bussmann	**2AAJ4**
200	A2D-R	Mersen	**4TCC1**
225	LPN-RK-SPI	Bussmann	**2AAJ5**
225	A2D-R	Mersen	**4TCC2**
250	LPN-RK-SPI	Bussmann	**2AAJ6**
250	A2D-R	Mersen	**4TCC3**
300	LPN-RK-SPI	Bussmann	**2AAJ7**
300	A2D-R	Mersen	**4TCC4**
350	LPN-RK-SPI	Bussmann	**2AAJ8**
350	A2D-R	Mersen	**4TCC5**
400	LPN-RK-SPI	Bussmann	**1PVT1**
400	A2D-R	Mersen	**4TCC6**
450	LPN-RK-SPI	Bussmann	**1PVT4**
450	A2D-R	Mersen	**4TCC7**
500	LPN-RK-SPI	Bussmann	**1PVT6**
500	A2D-R	Mersen	**4TCC8**
600	LPN-RK-SPI	Bussmann	**1PVT9**
600	A2D-R	Mersen	**4TCC9**
600VAC Time-Delay UL Class			
RK1 Fuses, Indicating			
Equivalent Series A6D-R, LLSRK, LPS-RK-SP			
Cylindrical Body Style			
6	LPS-RK-SPI	Bussmann	**1PWB3**
6 1/4	LPS-RK-SPI	Bussmann	**1PWB2**
7	LPS-RK-SPI	Bussmann	**2ABU2**
8	LPS-RK-SPI	Bussmann	**2ABU4**
8	A6D-R	Mersen	**4TCG2**
9	LPS-RK-SPI	Bussmann	**2ABU6**
9	A6D-R	Mersen	**4TCG3**
10	LPS-RK-SPI	Bussmann	**1PVU7**
10	A6D-R	Mersen	**4TCG4**
12	LPS-RK-SPI	Bussmann	**1PVX2**
12	A6D-R	Mersen	**4TCG5**
15	LPS-RK-SPI	Bussmann	**1PVX4**
15	A6D-R	Mersen	**4TCG6**
17 1/2	LPS-RK-SPI	Bussmann	**1PVX5**
17 1/2	A6D-R	Mersen	**4TCG7**
20	LPS-RK-SPI	Bussmann	**1PVX9**
20	A6D-R	Mersen	**4TCG8**
25	LPS-RK-SPI	Bussmann	**1PVZ4**
25	A6D-R	Mersen	**4TCG9**
30	LPS-RK-SPI	Bussmann	**1PVZ6**
30	A6D-R	Mersen	**4TCH1**
35	LPS-RK-SPI	Bussmann	**1PVZ9**
35	A6D-R	Mersen	**4TCH2**
40	LPS-RK-SPI	Bussmann	**1PWA2**
40	A6D-R	Mersen	**4TCH3**
45	LPS-RK-SPI	Bussmann	**1PWA5**
45	A6D-R	Mersen	**4TCH4**
50	LPS-RK-SPI	Bussmann	**1PWA7**
50	A6D-R	Mersen	**4TCH5**
60	LPS-RK-SPI	Bussmann	**1PWB1**
60	A6D-R	Mersen	**4TCH6**
Blade Body Style			
70	A6D-R	Mersen	**4TCH7**
70	LPS-RK-SPI	Bussmann	**5NLE7**
80	LPS-RK-SPI	Bussmann	**2ABU3**
80	A6D-R	Mersen	**4TCH8**
90	A6D-R	Mersen	**4TCH9**
90	LPS-RK-SPI	Bussmann	**5NLE8**
100	LPS-RK-SPI	Bussmann	**1PVU6**
100	A6D-R	Mersen	**4TCJ1**
110	LPS-RK-SPI	Bussmann	**1PVU8**
110	A6D-R	Mersen	**4TCJ2**
125	LPS-RK-SPI	Bussmann	**1PVX1**
125	A6D-R	Mersen	**4TCJ3**
150	LPS-RK-SPI	Bussmann	**1PVX3**
150	A6D-R	Mersen	**4TCJ4**
175	LPS-RK-SPI	Bussmann	**1PVX7**
175	A6D-R	Mersen	**4TCJ5**
200	LPS-RK-SPI	Bussmann	**1PVX8**
200	A6D-R	Mersen	**4TCJ6**
225	LPS-RK-SPI	Bussmann	**1PVZ1**
225	A6D-R	Mersen	**4TCJ7**
250	LPS-RK-SPI	Bussmann	**1PVZ3**
250	A6D-R	Mersen	**4TCJ8**
300	LPS-RK-SPI	Bussmann	**1PVZ5**
300	A6D-R	Mersen	**4TCJ9**
350	LPS-RK-SPI	Bussmann	**1PVZ8**
350	A6D-R	Mersen	**4TCK1**
400	LPS-RK-SPI	Bussmann	**1PWA1**
400	A6D-R	Mersen	**4TCK2**
450	LPS-RK-SPI	Bussmann	**1PWA3**
450	A6D-R	Mersen	**4TCK3**
500	LPS-RK-SPI	Bussmann	**1PWA6**
500	A6D-R	Mersen	**4TCK4**
600	LPS-RK-SPI	Bussmann	**1PWA8**
600	A6D-R	Mersen	**4TCK5**
250VAC Fast-Acting UL Class			
RK1 Fuses, Nonindicating			
Equivalent Series A2K-R, KLRN, KTN-R			
Cylindrical Body Style			
30	KTN-R	Bussmann	**1DG40**
50	KTN-R	Bussmann	**1DG46**
Blade Body Style			
250	KTN-R	Bussmann	**1EM16**
400	KTN-R	Bussmann	**1DW47**
600VAC Fast-Acting UL Class			
RK1 Fuses, Nonindicating			
Equivalent Series A6K-R, KLSR, KTS-R			
Cylindrical Body Style			
25	KTS-R	Bussmann	**1CX05**
45	KTS-R	Bussmann	**1CX11**
50	KTS-R	Bussmann	**1CX13**
60	KTS-R	Bussmann	**1CX15**
Blade Body Style			
70	KTS-R	Bussmann	**1CX16**
80	KTS-R	Bussmann	**1EL32**
100	KTS-R	Bussmann	**1EL23**
125	KTS-R	Bussmann	**1EL25**
200	KTS-R	Bussmann	**1EL28**
300	KTS-R	Bussmann	**1EL31**
600	KTS-R	Bussmann	**1EP19**



No. 1A698

Class RK5 Fuses

FERRAZ SHAWMUT IS NOW MERSEN

These fuses provide moderate current limitation for general use applications where more current-limiting RK1 fuses aren't needed. They have an interrupting rating (IR) of 200kA and have a rejection feature that prevents an accidental downgrade from a current-limiting system.

Fuse Size Chart

Amps	Length (in.)	Dia. (in.)	Amps	Length (in.)	Dia. (in.)
250VAC			**600VAC**		
1/10-30	2	9/16	1/10-30	5	13/16
35-60	3	13/16	35-60	5 1/2	1 1/16
70-100	5 1/8	1 1/8	70-100	7 1/8	1 1/8
110-200	7 1/8	1 9/16	110-200	9 5/8	1 19/32
225-400	8 5/8	2 3/8	225-400	11 5/8	2 3/8
450-600	10 3/8	2 7/8	450-600	13 3/8	2 7/8

Amps	Series	Brand	Item No.
250VAC Time-Delay UL Class RK5 Fuses, Indicating Equivalent Series FLNR-ID, LRN-R-ID, TR-RID Blade Body Style			
70	TR-RID	Mersen	4YZT8
80	TR-RID	Mersen	4YZT9
90	TR-RID	Mersen	4YZU1
100	TR-RID	Mersen	4YZU2
110	TR-RID	Mersen	4YZU3
125	TR-RID	Mersen	4YZU4
150	TR-RID	Mersen	4YZU5
175	TR-RID	Mersen	4YZU6
200	TR-RID	Mersen	4YZU7
225	TR-RID	Mersen	4YZU8
250	TR-RID	Mersen	4YZU9
300	TR-RID	Mersen	4YZV1
350	TR-RID	Mersen	4YZV2
400	TR-RID	Mersen	4YZV3
450	TR-RID	Mersen	4YZV4
500	TR-RID	Mersen	4YZV5
600	TR-RID	Mersen	4YZV6
Cylindrical Body Style			
8	FRN-R-ID	Bussmann	3FKH9
8	TR-RID	Mersen	4YZR4
9	FRN-R-ID	Bussmann	3FKJ1
9	TR-RID	Mersen	4YZR5
10	FRN-R-ID	Bussmann	3FKG6
10	TR-RID	Mersen	4YZR6
12	FRN-R-ID	Bussmann	3FKG7
12	TR-RID	Mersen	4YZR7
15	FRN-R-ID	Bussmann	3FKG8
15	TR-RID	Mersen	4YZR8
17 1/2	FRN-R-ID	Bussmann	3FKG9
20	FRN-R-ID	Bussmann	3FKH1
20	TR-RID	Mersen	4YZR9
25	FRN-R-ID	Bussmann	3FKH2
25	TR-RID	Mersen	4YZT1
30	FRN-R-ID	Bussmann	3FKH3
30	TR-RID	Mersen	4YZT2
35	FRN-R-ID	Bussmann	3FKH4
35	TR-RID	Mersen	4YZT3
40	FRN-R-ID	Bussmann	3FKH5
40	TR-RID	Mersen	4YZT4
45	FRN-R-ID	Bussmann	3FKH6
45	TR-RID	Mersen	4YZT5
50	FRN-R-ID	Bussmann	3FKH7
50	TR-RID	Mersen	4YZT6
60	FRN-R-ID	Bussmann	3FKH8
60	TR-RID	Mersen	4YZT7
250VAC Time-Delay UL Class RK5 Fuses, Non-Indicating Equivalent Series ECNR, FLNR, FRN-R, TR-R Blade Body Style			
70	TR-R	Mersen	4YZE7
70	FRN-R	Bussmann	6A828
75	TR-R	Mersen	4YZE8
75	FRN-R	Bussmann	6F214
80	TR-R	Mersen	4YZE9
80	FRN-R	Bussmann	6A829
90	TR-R	Mersen	4YZF1
90	FRN-R	Bussmann	6A830
100	FRN-R	Bussmann	2A157
100	TR-R	Mersen	4YZF2
110	TR-R	Mersen	4YZF3
110	FRN-R	Bussmann	6F215
125	FRN-R	Bussmann	4A454
125	TR-R	Mersen	4YZF4
150	FRN-R	Bussmann	4A455
150	TR-R	Mersen	4YZF5
175	TR-R	Mersen	4YZF6
175	FRN-R	Bussmann	6F216
200	FRN-R	Bussmann	4A456
200	TR-R	Mersen	4YZF7
225	TR-R	Mersen	4YZF8
225	FRN-R	Bussmann	6F217
250	TR-R	Mersen	4YZF9
250	FRN-R	Bussmann	6F218
300	TR-R	Mersen	4YZG1
300	FRN-R	Bussmann	6A831
350	TR-R	Mersen	4YZG2
350	FRN-R	Bussmann	6F219
400	TR-R	Mersen	4YZG3
400	FRN-R	Bussmann	6A832
450	TR-R	Mersen	4YZG4
450	FRN-R	Bussmann	6F220

Amps	Series	Brand	Item No.
500	TR-R	Mersen	4YZG5
500	FRN-R	Bussmann	6F221
600	TR-R	Mersen	4YZG6
600	FRN-R	Bussmann	6F222
Cylindrical Body Style			
1/10	TR-R	Mersen	4TCK6
1/10	FRN-R	Bussmann	6F201
1/8	FRN-R	Bussmann	1DF53
15/100	TR-R	Mersen	4TCK7
15/100	FRN-R	Bussmann	6F202
2/10	TR-R	Mersen	4TCK8
2/10	FRN-R	Bussmann	6F203
1/4	FRN-R	Bussmann	1DF52
3/10	TR-R	Mersen	4TCK9
3/10	FRN-R	Bussmann	6C172
4/10	TR-R	Mersen	4TCL1
4/10	FRN-R	Bussmann	6F204
1/2	TR-R	Mersen	4TCL2
1/2	FRN-R	Bussmann	6F205
6/10	TR-R	Mersen	4TCL3
6/10	FRN-R	Bussmann	6C173
8/10	TR-R	Mersen	4TCL4
8/10	FRN-R	Bussmann	6F206
1	TR-R	Mersen	4TCL5
1	FRN-R	Bussmann	4TWL3
1 1/8	TR-R	Mersen	4TCL6
1 1/8	FRN-R	Bussmann	6F207
1 1/4	FRN-R	Bussmann	4A449
1 1/4	TR-R	Mersen	4TCL7
1 4/10	TR-R	Mersen	4TCL8
1 4/10	FRN-R	Bussmann	6F208
1 1/2	FRN-R	Bussmann	1DF51
1 9/10	FRN-R	Bussmann	4A447
1 9/10	TR-R	Mersen	4TCL9
1 9/10	FRN-R	Bussmann	4A448
1 9/10	TR-R	Mersen	4TCN1
2	FRN-R	Bussmann	2A155
2	TR-R	Mersen	4TCN2
2 1/4	TR-R	Mersen	4TCN3
2 1/4	FRN-R	Bussmann	6F209
2 1/2	TR-R	Mersen	4TCN4
2 1/2	FRN-R	Bussmann	6F210
2 9/10	TR-R	Mersen	4TCN5
2 9/10	FRN-R	Bussmann	6F211
3	TR-R	Mersen	4TCN6
3	FRN-R	Bussmann	6C174
3 2/10	FRN-R	Bussmann	1A688
3 2/10	TR-R	Mersen	4TCN7
3 1/2	FRN-R	Bussmann	4A450
3 1/2	TR-R	Mersen	4TCN8
4	FRN-R	Bussmann	4A451
4	TR-R	Mersen	4TCN9
4 1/2	TR-R	Mersen	4TCP1
4 1/2	FRN-R	Bussmann	6F212
5	FRN-R	Bussmann	1A689
5	TR-R	Mersen	4TCP2
5 5/10	FRN-R	Bussmann	2A156
5 5/10	TR-R	Mersen	4TCP3
6	TR-R	Mersen	4TCP4
6	FRN-R	Bussmann	6C175
6 1/4	FRN-R	Bussmann	1A690
6 1/4	TR-R	Mersen	4TCP5
7	FRN-R	Bussmann	1A691
7	TR-R	Mersen	4TCP6
7 1/2	FRN-R	Bussmann	1DF54
8	FRN-R	Bussmann	1A692
8	TR-R	Mersen	4TCP7
9	TR-R	Mersen	4TCP8
9	FRN-R	Bussmann	6C205
10	FRN-R	Bussmann	1A693
10	TR-R	Mersen	4TCP9
12	FRN-R	Bussmann	1A694
12	TR-R	Mersen	4TCR1
15	ECNR	Bussmann	13M229
15	FRN-R	Bussmann	1A695
15	TR-R	Mersen	4TCR2
17 1/2	TR-R	Mersen	4TCR3
17 1/2	FRN-R	Bussmann	6F213
20	ECNR	Bussmann	13M230
20	FRN-R	Bussmann	1A696
20	TR-R	Mersen	4YZD8
25	FRN-R	Bussmann	1A697
25	TR-R	Mersen	4YZD9
30	ECNR	Bussmann	12W254
30	FRN-R	Bussmann	1A698
30	TR-R	Mersen	4YZE1
35	FRN-R	Bussmann	4A452
35	TR-R	Mersen	4YZE2
40	FRN-R	Bussmann	1A699
40	TR-R	Mersen	4YZE3
45	TR-R	Mersen	4YZE4
45	FRN-R	Bussmann	6C206
50	FRN-R	Bussmann	4A453
50	TR-R	Mersen	4YZE5
60	ECNR	Bussmann	12W260

Amps	Series	Brand	Item No.
60	FRN-R	Bussmann	1A700
60	TR-R	Mersen	4YZE6
70	ECNR	Bussmann	12W261
100	ECNR	Bussmann	13M228
600VAC Time-Delay Class RK5 Fuses, Non-Indicating Equivalent Series ECSR, FLSR, FRS-R, TRS-R Blade Body Style			
65	FRS-R	Bussmann	1DP87
70	TRS-R	Mersen	4YZN4
70	FRS-R	Bussmann	6A835
75	TRS-R	Mersen	4YZN5
75	FRS-R	Bussmann	6F237
80	TRS-R	Mersen	4YZN6
80	FRS-R	Bussmann	6A836
90	TRS-R	Mersen	4YZN7
90	FRS-R	Bussmann	6A837
100	FRS-R	Bussmann	2A163
100	TRS-R	Mersen	4YZN8
110	TRS-R	Mersen	4YZN9
110	FRS-R	Bussmann	6F238
125	FRS-R	Bussmann	4A465
125	TRS-R	Mersen	4YZP1
150	FRS-R	Bussmann	4A466
150	TRS-R	Mersen	4YZP2
175	TRS-R	Mersen	4YZP3
175	FRS-R	Bussmann	6F239
200	FRS-R	Bussmann	4A467
200	TRS-R	Mersen	4YZP4
225	TRS-R	Mersen	4YZP5
225	FRS-R	Bussmann	6F240
250	TRS-R	Mersen	4YZP6
250	FRS-R	Bussmann	6F241
300	TRS-R	Mersen	4YZP7
300	FRS-R	Bussmann	6A838
350	TRS-R	Mersen	4YZP8
350	FRS-R	Bussmann	6C204
400	TRS-R	Mersen	4YZP9
400	FRS-R	Bussmann	6A839
450	TRS-R	Mersen	4YZR1
450	FRS-R	Bussmann	6F242
500	TRS-R	Mersen	4YZR2
500	FRS-R	Bussmann	6F243
600	TRS-R	Mersen	4YZR3
600	FRS-R	Bussmann	6F244
Cylindrical Body Style			
1/10	TRS-R	Mersen	4YZG7
1/10	FRS-R	Bussmann	6F223
15/100	TRS-R	Mersen	4YZG8
15/100	FRS-R	Bussmann	6F224
2/10	TRS-R	Mersen	4YZG9
2/10	FRS-R	Bussmann	6F225
1/4	FRS-R	Bussmann	1EM07
3/10	TRS-R	Mersen	4YZH1
3/10	FRS-R	Bussmann	6F226
4/10	TRS-R	Mersen	4YZH2
4/10	FRS-R	Bussmann	6F227
1/2	TRS-R	Mersen	4YZH3
1/2	FRS-R	Bussmann	6F228
6/10	TRS-R	Mersen	4YZH4
6/10	FRS-R	Bussmann	6F229
8/10	TRS-R	Mersen	4YZH5
8/10	FRS-R	Bussmann	6F230
1	FRS-R	Bussmann	4A457
1	TRS-R	Mersen	4YZH6
1 1/8	TRS-R	Mersen	4YZH7
1 1/8	FRS-R	Bussmann	6F231
1 1/4	FRS-R	Bussmann	1A701
1 1/4	TRS-R	Mersen	4YZH8
1 4/10	FRS-R	Bussmann	4A458
1 4/10	TRS-R	Mersen	4YZH9
1 1/2	FRS-R	Bussmann	1EM06
1 6/10	TRS-R	Mersen	4YZJ1
1 6/10	FRS-R	Bussmann	6C212
1 9/10	FRS-R	Bussmann	4A459
1 9/10	TRS-R	Mersen	4YZJ2
2	FRS-R	Bussmann	2A158
2	TRS-R	Mersen	4YZJ3
2 1/4	TRS-R	Mersen	4YZJ4
2 1/4	FRS-R	Bussmann	6F232
2 1/2	FRS-R	Bussmann	2A159
2 1/2	TRS-R	Mersen	4YZJ5
2 9/10	FRS-R	Bussmann	4A460
2 9/10	TRS-R	Mersen	4YZJ6
3	TRS-R	Mersen	4YZJ7
3	FRS-R	Bussmann	6C213
3 2/10	TRS-R	Mersen	4YZJ8
3 2/10	FRS-R	Bussmann	6F233
3 1/2	FRS-R	Bussmann	4A461
3 1/2	TRS-R	Mersen	4YZJ9
4	FRS-R	Bussmann	4A462
4	TRS-R	Mersen	4YZK1
4 1/2	TRS-R	Mersen	4YZK2
4 1/2	FRS-R	Bussmann	6F234
5	FRS-R	Bussmann	1A702

Amps	Series	Brand	Item No.
5	TRS-R	Mersen	4YZK3
5 5/10	FRS-R	Bussmann	3W686
5 5/10	TRS-R	Mersen	4YZK4
6	TRS-R	Mersen	4YZK5
6	FRS-R	Bussmann	6C214
6 1/4	FRS-R	Bussmann	4A463
6 1/4	TRS-R	Mersen	4YZK6
7	FRS-R	Bussmann	2A160
7	TRS-R	Mersen	4YZK7
7 1/2	FRS-R	Bussmann	1EM08
8	TRS-R	Mersen	4YZK8
8	FRS-R	Bussmann	6C215
9	TRS-R	Mersen	4YZK9
9	FRS-R	Bussmann	6F235
10	FRS-R	Bussmann	2A161
10	TRS-R	Mersen	4YZL1
12	FRS-R	Bussmann	2A162
12	TRS-R	Mersen	4YZL2
15	FRS-R	Bussmann	1A703
15	TRS-R	Mersen	4YZL3
17 1/2	TRS-R	Mersen	4YZL4
17 1/2	FRS-R	Bussmann	6F236
20	FRS-R	Bussmann	1A704
20	TRS-R	Mersen	4YZL5
25	FRS-R	Bussmann	1A705
25	TRS-R	Mersen	4YZL6
30	ECSR	Bussmann	12W262
30	FRS-R	Bussmann	1A706
30	TRS-R	Mersen	4YZL7
35	TRS-R	Mersen	4YZL8
35	FRS-R	Bussmann	6A833
40	FRS-R	Bussmann	4A464
40	TRS-R	Mersen	4YZL9
45	FRS-R	Bussmann	3W685
45	TRS-R	Mersen	4YZN1
50	TRS-R	Mersen	4YZN2
50	FRS-R	Bussmann	6A834
60	FRS-R	Bussmann	1A707
60	TRS-R	Mersen	4YZN3
600VAC Time-Delay UL Class RK5 Fuses, Indicating Equivalent Series FLSR-ID, FRS-R-ID, TRS-RID Blade Body Style			
70	TRS-RID	Mersen	4YZX3
80	TRS-RID	Mersen	4YZX4
90	TRS-RID	Mersen	4YZX5
100	TRS-RID	Mersen	4YZX6
110	TRS-RID	Mersen	4YZX7
125	TRS-RID	Mersen	4YZX8
150	TRS-RID	Mersen	4YZX9
175	TRS-RID	Mersen	4YZY1
200	TRS-RID	Mersen	4YZY2
225	TRS-RID	Mersen	4YZY3
250	TRS-RID	Mersen	4YZY4
300	TRS-RID	Mersen	4YZY5
350	TRS-RID	Mersen	4YZY6
400	TRS-RID	Mersen	4YZY7
450	TRS-RID	Mersen	4YZY8
500	TRS-RID	Mersen	4YZY9
600	TRS-RID	Mersen	4YZZ1
Cylindrical Body Style			
6	FRS-R-ID	Bussmann	3FKK5
6 1/2	FRS-R-ID	Bussmann	3FKK7
7	FRS-R-ID	Bussmann	3FKK8
7 1/2	FRS-R-ID	Bussmann	3FKK9
8	FRS-R-ID	Bussmann	3FKL1
8	TRS-RID	Mersen	4YZV7
9	FRS-R-ID	Bussmann	3FKL2
9	TRS-RID	Mersen	4YZV8
10	FRS-R-ID	Bussmann	3FKJ2
10	TRS-RID	Mersen	4YZV9
12	FRS-R-ID	Bussmann	3FKJ3
12	TRS-RID	Mersen	4YZW1
15	FRS-R-ID	Bussmann	3FKJ4
15	TRS-RID	Mersen	4YZW2
17 1/2	FRS-R-ID	Bussmann	3FKJ5
17 1/2	TRS-RID	Mersen	4YZW3
20	FRS-R-ID	Bussmann	3FKJ6
20	TRS-RID	Mersen	4YZW4
25	FRS-R-ID	Bussmann	3FKJ7
25	TRS-RID	Mersen	4YZW5
30	FRS-R-ID	Bussmann	3FKJ8
30	TRS-RID	Mersen	4YZW6
35	FRS-R-ID	Bussmann	3FKJ9
35	TRS-RID	Mersen	4YZW7
40	FRS-R-ID	Bussmann	3FKK2
40	TRS-RID	Mersen	4YZW8
45	FRS-R-ID	Bussmann	3FKK3
45	TRS-RID	Mersen	4YZW9
50	FRS-R-ID	Bussmann	3FKK4
50	TRS-RID	Mersen	4YZX1
60	FRS-R-ID	Bussmann	3FKK6
60	TRS-RID	Mersen	4YZX2

Midget Fuses

EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN

- Fuse Size 1½"L x 13/32" dia.
- These fuses supplement the primary branch-circuit fuse or breaker to provide backup overcurrent protection for lighting, solenoid, motor, and transformer circuits. They are noncurrent-limiting, so they won't limit exposure to the full magnitude and duration of an overcurrent.



No. 1CR95

Amps	AC Volt Rating	Series	Brand	Item No.
Fast Acting Midget Fuses, Nonindicating				
Equivalent Series ATM, KLK, KTK				
1/10	600V AC	KTK	Bussmann	6F125
	600V AC	ATM	Mersen	4ZCG5
	600V AC	KTK	Bussmann	6F126
1/8	600V AC	ATM	Mersen	4ZCG6
3/10	600V AC	KTK	Bussmann	6F127
	600V AC	ATM	Mersen	4ZCG7
1/4	600V AC	KTK	Bussmann	6F128
	600V AC	ATM	Mersen	4ZCG8
3/10	600V AC	KTK	Bussmann	1CW81
4/10	600V AC	KTK	Bussmann	1CW83
1/2	600V AC	KTK	Bussmann	6F129
	600V AC	ATM	Mersen	4ZCG9
6/10	600V AC	KTK	Bussmann	1CW87
3/4	600V AC	KTK	Bussmann	6F130
	600V AC	ATM	Mersen	4ZCH1
1	600V AC	KTK	Bussmann	4XC37
	600V AC	ATM	Mersen	4ZCH2
1 1/4	600V AC	KTK	Bussmann	1CW78
1 1/2	600V AC	KTK	Bussmann	6F131
	600V AC	ATM	Mersen	4ZCH3
2	600V AC	KTK	Bussmann	4XC38
	600V AC	ATM	Mersen	4ZCH4
2 1/2	600V AC	KTK	Bussmann	1CW79
3	600V AC	KTK	Bussmann	4XC39
	600V AC	ATM	Mersen	4ZCH5
3 1/2	600V AC	KTK	Bussmann	1CW80
4	600V AC	KTK	Bussmann	6F132
	600V AC	ATM	Mersen	4ZCH6
5	600V AC	KTK	Bussmann	4XC40
	600V AC	ATM	Mersen	4ZCH7
6	600V AC	KTK	Bussmann	4XC41
	600V AC	ATM	Mersen	4ZCH8
7	600V AC	KTK	Bussmann	1CW88
	600V AC	ATM	Mersen	4ZCH9
7 1/2	600V AC	KTK	Bussmann	1CW89
8	600V AC	KTK	Bussmann	6F133
	600V AC	ATM	Mersen	4ZCJ1
9	600V AC	KTK	Bussmann	1CW90
10	600V AC	KTK	Bussmann	4XC42
	600V AC	ATM	Mersen	4ZCJ2
12	600V AC	KTK	Bussmann	6F134
	600V AC	ATM	Mersen	4ZCJ3
15	600V AC	KTK	Bussmann	4XC43
	600V AC	ATM	Mersen	4ZCJ4
20	600V AC	KTK	Bussmann	4XC44
	600V AC	ATM	Mersen	4ZCJ5
25	600V AC	KTK	Bussmann	4XC45
	600V AC	ATM	Mersen	4ZCJ6
30	600V AC	KTK	Bussmann	4XC46
	600V AC	ATM	Mersen	4ZCJ7
35	600V AC	KTK	Bussmann	1CW82
	600V AC	ATM	Mersen	4ZCJ8
40	600V AC	KTK	Bussmann	1CW84
	600V AC	ATM	Mersen	4ZCJ9
50	600V AC	KTK	Bussmann	1CW86
	600V AC	ATM	Mersen	4ZCK1
Equivalent Series ATM, KLKD, KLM				
1/10	600V AC	KLM	Bussmann	49ZU73
1/4	600V AC	KLM	Bussmann	49ZU74
3/10	600V AC	KLM	Bussmann	4TWT7
1/2	600V AC	KLM	Bussmann	4TWT3
1	600V AC	KLM	Bussmann	4TWT2
1 1/2	600V AC	KLM	Bussmann	4TWT4
2	600V AC	KLM	Bussmann	1CW66
2 1/2	600V AC	KLM	Bussmann	49ZU77
3	600V AC	KLM	Bussmann	4TWT6
4	600V AC	KLM	Bussmann	4TWT8
5	600V AC	KLM	Bussmann	1CW75
6	600V AC	KLM	Bussmann	1CW76
7	600V AC	KLM	Bussmann	49ZU79
8	600V AC	KLM	Bussmann	4TWT9
10	600V AC	KLM	Bussmann	1CW64
12	600V AC	KLM	Bussmann	4TWT5
15	600V AC	KLM	Bussmann	1CW65
20	600V AC	KLM	Bussmann	1CW68
25	600V AC	KLM	Bussmann	1CW69
30	600V AC	KLM	Bussmann	1CW73
Equivalent Series BAF, BLF, OTM				
1/4	250V AC	BAF	Bussmann	4TWH2
1/2	250V AC	BAF	Bussmann	1CR71
6/10	250V AC	BAF	Bussmann	4TWH3
1	250V AC	BAF	Bussmann	6F159
1 1/2	250V AC	BAF	Bussmann	1CR70
2	250V AC	BAF	Bussmann	6F160
2 1/2	250V AC	BAF	Bussmann	1CR73
3	250V AC	BAF	Bussmann	6C167
4	250V AC	BAF	Bussmann	6F161
5	250V AC	BAF	Bussmann	6C168
6	250V AC	BAF	Bussmann	6C169
6 1/4	250V AC	BAF	Bussmann	1CR77
7	250V AC	BAF	Bussmann	1CR78
8	250V AC	BAF	Bussmann	6F162
9	250V AC	BAF	Bussmann	1CR79
10	250V AC	BAF	Bussmann	6C170
12	250V AC	BAF	Bussmann	1CR72
15	250V AC	BAF	Bussmann	6C171
20	250V AC	BAF	Bussmann	1CR74
25	250V AC	BAF	Bussmann	1CR75
30	250V AC	BAF	Bussmann	1CR76
Equivalent Series BBS, BLS, SBS				
1/10	600V AC	BBS	Bussmann	1CR98
2/10	600V AC	BBS	Bussmann	1CT05
1/4	600V AC	BBS	Bussmann	1CT01
4/10	600V AC	BBS	Bussmann	1CT12
1/2	600V AC	BBS	Bussmann	1CR99
6/10	600V AC	BBS	Bussmann	1CT15
3/4	600V AC	BBS	Bussmann	1CT09
8/10	600V AC	BBS	Bussmann	1CT18
1	600V AC	BBS	Bussmann	1CR94
1 1/2	600V AC	BBS	Bussmann	1CR95
1 6/10	600V AC	BBS	Bussmann	1CR96
2	600V AC	BBS	Bussmann	1CT04
3	600V AC	BBS	Bussmann	1CT08
4	600V AC	BBS	Bussmann	1CT11
5	600V AC	BBS	Bussmann	1CT13
6	600V AC	BBS	Bussmann	1CT14
7	250V AC	BBS	Bussmann	1CT16
8	250V AC	BBS	Bussmann	1CT17
10	250V AC	BBS	Bussmann	1CT02
15	48V AC	BBS	Bussmann	1CT03
20	48V AC	BBS	Bussmann	1CT06
30	48V AC	BBS	Bussmann	1CT10
Time-Delay Midget Fuses, Indicating				
Equivalent Series FLA, FNA, GFN				
1/10	250V AC	FNA	Bussmann	4TWH7
2/10	250V AC	FNA	Bussmann	1CT39
1/4	250V AC	FNA	Bussmann	1CT29
3/10	250V AC	FNA	Bussmann	4TWJ7
4/10	250V AC	FNA	Bussmann	1CT50
1/2	250V AC	FNA	Bussmann	1CT28
6/10	250V AC	FNA	Bussmann	1CT55
3/4	250V AC	FNA	Bussmann	4TWJ8
8/10	250V AC	FNA	Bussmann	4TWK3
1	250V AC	FNA	Bussmann	1CT20
1 1/8	250V AC	FNA	Bussmann	4TWH8
1 1/4	250V AC	FNA	Bussmann	1CT22
1 4/10	250V AC	FNA	Bussmann	4TWH9
1 1/2	250V AC	FNA	Bussmann	1CT21
1 6/10	250V AC	FNA	Bussmann	1CT25
1 8/10	250V AC	FNA	Bussmann	4TWJ1
2	250V AC	FNA	Bussmann	1CT35
2 1/4	250V AC	FNA	Bussmann	4TWJ4
2 1/2	250V AC	FNA	Bussmann	4TWJ3
2 9/10	250V AC	FNA	Bussmann	4TWJ6
3	250V AC	FNA	Bussmann	1CT42
3 2/10	250V AC	FNA	Bussmann	4TWJ9
4	250V AC	FNA	Bussmann	1CT48
4 1/2	250V AC	FNA	Bussmann	4TWK1
5	250V AC	FNA	Bussmann	1CT51
6	250V AC	FNA	Bussmann	1CT53
6 1/4	125V AC	FNA	Bussmann	4TWK2
7	125V AC	FNA	Bussmann	1CT56
8	125V AC	FNA	Bussmann	1CT57
9	125V AC	FNA	Bussmann	4TWK4
10	125V AC	FNA	Bussmann	1CT31
12	125V AC	FNA	Bussmann	1CT32
15	125V AC	FNA	Bussmann	1CT33
20	32V AC	FNA	Bussmann	4TWJ2
25	32V AC	FNA	Bussmann	4TWJ5
Time-Delay Midget Fuses, Nonindicating				
Equivalent Series ATQ, FLQ, FNQ, HC10S				
1/10	500V AC	FNQ	Bussmann	6F135
	500V AC	ATQ	Mersen	4ZWY9
1/8	500V AC	FNQ	Bussmann	6F136
	500V AC	ATQ	Mersen	4ZWZ1
15/100	500V AC	FNQ	Bussmann	6F137
	500V AC	ATQ	Mersen	4ZWZ2
3/16	500V AC	FNQ	Bussmann	6F138
	500V AC	ATQ	Mersen	4ZWZ3
2/10	500V AC	FNQ	Bussmann	6F139
	500V AC	ATQ	Mersen	4ZWZ4
1/4	500V AC	FNQ	Bussmann	6F140
	500V AC	ATQ	Mersen	4ZWZ5
3/10	500V AC	FNQ	Bussmann	6F141
	500V AC	ATQ	Mersen	4ZWZ6
4/10	500V AC	FNQ	Bussmann	6F142
	500V AC	ATQ	Mersen	4ZWZ7
1/2	500V AC	FNQ	Bussmann	4XC47
	500V AC	ATQ	Mersen	4ZWZ8
6/10	500V AC	FNQ	Bussmann	6F143
	500V AC	ATQ	Mersen	4ZWZ9
8/10	500V AC	FNQ	Bussmann	6F144
	500V AC	ATQ	Mersen	4ZXA1
1	500V AC	FNQ	Bussmann	4XC48
	500V AC	ATQ	Mersen	4ZCK2
1 1/8	500V AC	FNQ	Bussmann	6F145
	500V AC	ATQ	Mersen	4ZCK3
1 1/4	500V AC	FNQ	Bussmann	6F146
	500V AC	ATQ	Mersen	4ZCK4
1 4/10	500V AC	ATQ	Mersen	4ZCK5
1 1/2	500V AC	FNQ	Bussmann	6F148
	500V AC	ATQ	Mersen	4ZCK6
1 6/10	500V AC	FNQ	Bussmann	4XC49
	500V AC	ATQ	Mersen	4ZCK7
1 8/10	500V AC	ATQ	Mersen	4ZCK8
2	500V AC	FNQ	Bussmann	4XC50
	500V AC	ATQ	Mersen	4ZCK9
2 1/8	500V AC	ATQ	Mersen	4ZCL1
2 1/4	500V AC	FNQ	Bussmann	6F151
	500V AC	ATQ	Mersen	4ZCL2
2 1/2	500V AC	FNQ	Bussmann	4XC51
	500V AC	ATQ	Mersen	4ZCL3
2 8/10	500V AC	ATQ	Mersen	4ZCL4
3	500V AC	FNQ	Bussmann	4XC52
	500V AC	ATQ	Mersen	4ZCL5
3 2/10	500V AC	FNQ	Bussmann	4XC53
	500V AC	ATQ	Mersen	4ZCL6
3 1/2	500V AC	FNQ	Bussmann	6F153
	500V AC	ATQ	Mersen	4ZCL7
4	500V AC	FNQ	Bussmann	4XC54
	500V AC	ATQ	Mersen	4ZCL8
4 1/2	500V AC	FNQ	Bussmann	1CT87
	500V AC	ATQ	Mersen	4ZCL9
5	500V AC	FNQ	Bussmann	4XC55
	500V AC	ATQ	Mersen	4ZCN1
5 9/10	500V AC	FNQ	Bussmann	6F155
	500V AC	ATQ	Mersen	4ZCN2
6	500V AC	FNQ	Bussmann	4XC56
	500V AC	ATQ	Mersen	4ZCN3
6 1/4	500V AC	FNQ	Bussmann	6F156
	500V AC	ATQ	Mersen	4ZCN4
7	500V AC	FNQ	Bussmann	4XC57
	500V AC	ATQ	Mersen	4ZCN5
8	500V AC	FNQ	Bussmann	4XC58
	500V AC	ATQ	Mersen	4ZCN6
9	500V AC	FNQ	Bussmann	6F157
	500V AC	ATQ	Mersen	4ZCN7
10	500V AC	FNQ	Bussmann	4XC59
	500V AC	ATQ	Mersen	4ZCN8
12	500V AC	FNQ	Bussmann	4XC60
	500V AC	ATQ	Mersen	4ZCN9
14	500V AC	FNQ	Bussmann	6F158
	500V AC	ATQ	Mersen	4ZCP1
15	500V AC	FNQ	Bussmann	4XC61
	500V AC	ATQ	Mersen	4ZCP2
20	500V AC	FNQ	Bussmann	4XC62
	500V AC	ATQ	Mersen	4ZCP3
25	500V AC	FNQ	Bussmann	4XC63
	500V AC	ATQ	Mersen	4ZCP4
30	500V AC	FNQ	Bussmann	4XC64
	500V AC	ATQ	Mersen	4ZCP5
Equivalent Series FLM, FNM, TRM				
1/10	250V AC	FNM	Bussmann	6F166
15/100	250V AC	FNM	Bussmann	6F167
2/10	250V AC	FNM	Bussmann	6F168
1/4	250V AC	FNM	Bussmann	1CT79
3/10	250V AC	FNM	Bussmann	6F169
4/10	250V AC	FNM	Bussmann	6F170
1/2	250V AC	FNM	Bussmann	6F171
6/10	250V AC	FNM	Bussmann	4XC09
3/4	250V AC	FNM	Bussmann	4TWK5
8/10	250V AC	FNM	Bussmann	6F172
1	250V AC	FNM	Bussmann	6C207
1 1/8	250V AC	FNM	Bussmann	6F173
1 1/4	250V AC	FNM	Bussmann	6F174
1 3/10	250V AC	FNM	Bussmann	6F175
1 1/2	250V AC	FNM	Bussmann	1CT78
1 6/10	250V AC	FNM	Bussmann	6F176
1 8/10	250V AC	FNM	Bussmann	6F177
2	250V AC	FNM	Bussmann	4XC10
2 1/4	250V AC	FNM	Bussmann	6F178
2 1/2	250V AC	FNM	Bussmann	6F179
2 8/10	250V AC	FNM	Bussmann	6F180
3	250V AC	FNM	Bussmann	4XC11
3 2/10	250V AC	FNM	Bussmann	6F181
3 1/2	250V AC	FNM	Bussmann	6F182
4	250V AC	FNM	Bussmann	6F183
4 1/2	250V AC	FNM	Bussmann	6F184
5	250V AC	FNM	Bussmann	4XC12
5 9/10	250V AC	FNM	Bussmann	6F185
6	250V AC	FNM	Bussmann	6F186
6 1/4	250V AC	FNM	Bussmann	6C208
7	250V AC	FNM	Bussmann	6C209
8	250V AC	FNM	Bussmann	6C210
9	250V AC	FNM	Bussmann	6F187
10	250V AC	FNM	Bussmann	4XC13
12	250V AC	FNM	Bussmann	1CT80
15	250V AC	FNM	Bussmann	1CT81
20	250V AC	FNM	Bussmann	1CT82
25	250V AC	FNM	Bussmann	1CT83
30	250V AC	FNM	Bussmann	1CT84
35	32V AC	FNM	Bussmann	1CT85
40	32V AC	FNM	Bussmann	1CT86



EATON BUSSMANN SERIES

No. 6F338

Class T Fuses

These are very small fuses that protect electrical feeders and branch circuits from overcurrent. They have an interrupting rating (IR) of 200kA and are not interchangeable with any other UL fuse class.

Amps	AC Volt Rating	Series	Item No.
Fact-Acting UL Class T Fuses, Nonindicating			
Equivalent Series A3T, JJN, JLLN, TJN			
Bolt-On Body Style			
1,000	300V AC	JJN	4TWP6
1,200	300V AC	JJN	4TWP7
Cylindrical Body Style			
1	300V AC	JJN	49ZU63
3	300V AC	JJN	6F337
6	300V AC	JJN	4XH17
10	300V AC	JJN	6F338
15	300V AC	JJN	6F339
20	300V AC	JJN	6F340
25	300V AC	JJN	6F341
30	300V AC	JJN	4XH18
35	300V AC	JJN	6F342
40	300V AC	JJN	4XH19
45	300V AC	JJN	6F343
50	300V AC	JJN	4XH20
60	300V AC	JJN	4XH21
Bolt-On Body Style			
70	300V AC	JJN	4XH22
80	300V AC	JJN	4XH23
90	300V AC	JJN	4XH24
100	300V AC	JJN	4XH25
110	300V AC	JJN	4XH26
125	300V AC	JJN	4XH27
150	300V AC	JJN	4XH28
175	300V AC	JJN	4TWP8
200	300V AC	JJN	4XH29
225	300V AC	JJN	4TWP9
250	300V AC	JJN	6F346
300	300V AC	JJN	4XH30
350	300V AC	JJN	4XH31
400	300V AC	JJN	4XH32
450	300V AC	JJN	4TWR1
500	300V AC	JJN	4XH33
600	300V AC	JJN	4XH34
700	300V AC	JJN	4TWR2
800	300V AC	JJN	4TWR3
Equivalent Series A6T, JJS, JLLS			
Cylindrical Body Style			
1	600V AC	JJS	6F473
2	600V AC	JJS	1DF89
3	600V AC	JJS	6F474
6	600V AC	JJS	6F475
10	600V AC	JJS	6F476
15	600V AC	JJS	6F477
20	600V AC	JJS	6F478
25	600V AC	JJS	6F479
30	600V AC	JJS	6F480
35	600V AC	JJS	6F481
40	600V AC	JJS	6F482
45	600V AC	JJS	6F483
50	600V AC	JJS	6F484
60	600V AC	JJS	6F485
70	600V AC	JJS	6F486
80	600V AC	JJS	6F487
90	600V AC	JJS	6F488
100	600V AC	JJS	6F489
110	600V AC	JJS	6F490
125	600V AC	JJS	6F491
150	600V AC	JJS	6F492
175	600V AC	JJS	6F493
200	600V AC	JJS	6F494
225	600V AC	JJS	6F495
250	600V AC	JJS	6F528
300	600V AC	JJS	6F496
350	600V AC	JJS	6F497
400	600V AC	JJS	4TWR4
450	600V AC	JJS	4TWR5
500	600V AC	JJS	4TWR6
600	600V AC	JJS	4TWR7
800	600V AC	JJS	4TWR8



No. 4ZAU3

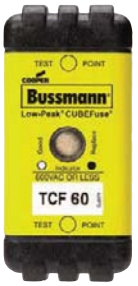
EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN — MERSEN

UL Class CC Fuses

- Fuse Size 1½"L x13/32" dia.

These fuses provide a high interrupting rating and current limitation for overcurrent protection. Their rejection feature ensures a match with Class CC rejection fuse blocks and holders. These 600VAC fuses have an interrupting rating (IR) of 200kA.

Amps	Mersen Series	Mersen Item No.	Littelfuse Series	Littelfuse Item No.	Bussmann Series	Bussmann Item No.
Fast-Acting UL Class CC Fuses, Nonindicating						
Equivalent Series ATMR, KLKR, KTK-R						
1/10	ATMR	4ZAX9	KLKR	486M60	KTK-R	6F189
1/8	ATMR	4ZAY1	—	—	KTK-R	6F190
3/10	ATMR	4ZAY2	—	—	KTK-R	6F191
1/4	ATMR	4ZAY3	KLKR	486M61	KTK-R	6F192
3/10	ATMR	4ZAY4	KLKR	486M62	KTK-R	6F193
4/10	—	—	—	—	KTK-R	1CW91
1/2	ATMR	4ZAY5	KLKR	486M63	KTK-R	4XC17
6/10	—	—	—	—	KTK-R	4TWU3
3/4	ATMR	4ZAY6	KLKR	486M64	KTK-R	4XC18
1	ATMR	4ZAY7	KLKR	486M65	KTK-R	4XC19
1 1/4	ATMR	4ZAY8	—	—	—	—
1 1/2	ATMR	4ZAY9	KLKR	486M74	KTK-R	4XC20
2	ATMR	4ZAZ1	KLKR	486M66	KTK-R	4XC21
2 1/2	ATMR	4ZAZ2	KLKR	486M78	KTK-R	6F194
3	ATMR	4ZAZ3	KLKR	486M67	KTK-R	4XC22
3 1/2	ATMR	4ZAZ4	KLKR	486M81	KTK-R	6F195
4	ATMR	4ZAZ5	KLKR	486M68	KTK-R	4XC23
5	ATMR	4ZAZ6	KLKR	486M69	KTK-R	4XC24
6	ATMR	4ZAZ7	KLKR	486M70	KTK-R	6F196
7	ATMR	4ZAZ8	KLKR	486M71	KTK-R	1CW92
8	ATMR	4ZAZ9	KLKR	486M72	KTK-R	6F197
9	ATMR	4ZCA1	KLKR	486M73	KTK-R	6F198
10	ATMR	4ZCA2	KLKR	486M75	KTK-R	4XC25
12	ATMR	4ZCA3	KLKR	486M76	KTK-R	6F199
15	ATMR	4ZCA4	KLKR	486M77	KTK-R	4XC26
20	ATMR	4ZCA5	KLKR	486M79	KTK-R	4XC27
25	ATMR	4ZCA6	KLKR	486M80	KTK-R	6F200
30	ATMR	4ZCA7	KLKR	486M82	KTK-R	4XC28
Time-Delay UL Class CC Fuses, Nonindicating						
Equivalent Series ATDR, CCMR, LP-CC						
1/4	ATDR	4ZWY8	—	—	—	—
1/2	ATDR	4ZAU3	CCMR	486K39	LP-CC	1CX45
6/10	ATDR	4ZAW4	CCMR	486K40	LP-CC	1CX65
8/10	ATDR	4ZAU4	CCMR	486K41	LP-CC	1CX69
1	ATDR	4ZAU5	CCMR	486K42	LP-CC	1CX41
1 1/8	ATDR	4ZAU6	—	—	LP-CC	1CX43
1 1/4	ATDR	4ZAU7	CCMR	486K67	LP-CC	1CX42
1 4/10	ATDR	4ZAU8	CCMR	486K51	LP-CC	1CX44
1 1/2	ATDR	4ZAU9	CCMR	486K52	LP-CC	3HZ64
1 6/10	ATDR	4ZAV1	CCMR	486K53	LP-CC	3HZ65
1 8/10	ATDR	4ZAV2	CCMR	486K54	LP-CC	3HZ66
2	ATDR	4ZAV3	CCMR	486K43	LP-CC	1CX49
2 1/4	ATDR	4ZAV4	CCMR	486K68	LP-CC	1CX51
2 1/2	ATDR	4ZAV5	CCMR	486K58	LP-CC	1CX50
2 6/10	ATDR	4ZAV6	—	—	LP-CC	1CX52
3	ATDR	4ZAV7	CCMR	486K44	LP-CC	1CX55
3 2/10	ATDR	4ZAV8	CCMR	486K61	LP-CC	1CX57
3 1/2	ATDR	4ZAV9	CCMR	486K62	LP-CC	1CX56
4	ATDR	4ZAW1	CCMR	486K45	LP-CC	1CX59
4 1/2	ATDR	4ZAW2	CCMR	486K64	LP-CC	1CX60
5	ATDR	4ZAW3	CCMR	486K46	LP-CC	1CX61
5 6/10	—	—	CCMR	486K65	LP-CC	1CX62
6	ATDR	4ZAW5	CCMR	486K47	LP-CC	1CX63
6 1/4	ATDR	4ZAW6	CCMR	486K69	LP-CC	1CX64
7	ATDR	4ZAW7	CCMR	486K48	LP-CC	1CX66
7 1/2	ATDR	4ZAW8	CCMR	486K66	LP-CC	1CX67
8	ATDR	4ZAW9	CCMR	486K49	LP-CC	1CX68
9	ATDR	4ZAX1	CCMR	486K50	LP-CC	3KT37
10	ATDR	4ZAX2	CCMR	486K55	LP-CC	1CX46
12	ATDR	4ZAX3	CCMR	486K56	LP-CC	1CX47
15	ATDR	4ZAX4	CCMR	486K57	LP-CC	1CX48
17 1/2	ATDR	4ZAX5	—	—	—	—
20	ATDR	4ZAX6	CCMR	486K59	LP-CC	1CX53
25	ATDR	4ZAX7	CCMR	486K60	LP-CC	1CX54
30	ATDR	4ZAX8	CCMR	486K63	LP-CC	1CX58
Equivalent Series ATQR, FNQ-R, KLDR						
1/10	ATQR	4ZCA8	—	—	—	—
1/8	ATQR	4ZCA9	—	—	—	—
3/16	ATQR	4ZCC1	—	—	—	—
2/10	ATQR	4ZCC2	—	—	—	—
1/4	ATQR	4ZCC3	KLDR	486M17	FNQ-R	1CT94
3/10	ATQR	4ZCC4	KLDR	486M18	FNQ-R	1CT99
4/10	ATQR	4ZCC5	KLDR	486M19	FNQ-R	1CV02
1/2	ATQR	4ZCC6	KLDR	486M20	FNQ-R	1CT93
6/10	ATQR	4ZCC7	KLDR	486M21	FNQ-R	1CV04
3/4	ATQR	4ZCC8	KLDR	486M22	FNQ-R	1CV01
8/10	ATQR	4ZCC9	KLDR	486M23	FNQ-R	1CV06
1	ATQR	4ZCD1	KLDR	486M24	FNQ-R	6F111
1 1/8	ATQR	4ZCD2	—	—	FNQ-R	1CT89
1 1/4	ATQR	4ZCD3	KLDR	486M46	FNQ-R	6F112
1 3/10	—	—	—	—	FNQ-R	1CT90
1 4/10	ATQR	4ZCD4	KLDR	486M33	FNQ-R	1CT91
1 1/2	ATQR	4ZCD5	KLDR	486M34	FNQ-R	1CT88
1 6/10	ATQR	4ZCD6	KLDR	486M35	FNQ-R	6F113
1 8/10	ATQR	4ZCD7	KLDR	486M36	FNQ-R	1CT92
2	ATQR	4ZCD8	KLDR	486M25	FNQ-R	6F114
2 1/4	ATQR	4ZCD9	—	—	FNQ-R	1CT95
2 1/2	ATQR	4ZCE1	KLDR	486M40	FNQ-R	6F115
2 8/10	ATQR	4ZCE2	—	—	FNQ-R	1CT96
3	ATQR	4ZCE3	KLDR	486M26	FNQ-R	6F116
3 2/10	ATQR	4ZCE4	KLDR	486M43	FNQ-R	1CT98
3 1/2	ATQR	4ZCE5	KLDR	486M44	FNQ-R	1CT97
4	ATQR	4ZCE6	KLDR	486M27	FNQ-R	6F117
4 1/2	ATQR	4ZCE7	—	—	FNQ-R	49ZU36
5	ATQR	4ZCE8	KLDR	486M28	FNQ-R	6F118
5 9/10	ATQR	4ZCE9	—	—	FNQ-R	49ZU37
6	ATQR	4ZCF1	KLDR	486M29	FNQ-R	6F119
6 1/4	ATQR	4ZCF2	KLDR	486M47	FNQ-R	1CV03
7	ATQR	4ZCF3	KLDR	486M30	FNQ-R	4TWL2
7 1/2	ATQR	4ZCF4	KLDR	486M45	FNQ-R	1CV05
8	ATQR	4ZCF5	KLDR	486M31	FNQ-R	6F121
9	ATQR	4ZCF6	KLDR	486M32	FNQ-R	1CV07
10	ATQR	4ZCF7	KLDR	486M37	FNQ-R	6F122
12	ATQR	4ZCF8	KLDR	486M38	FNQ-R	4TWK6
15	ATQR	4ZCF9	KLDR	486M39	FNQ-R	4TWK7
17 1/2	ATQR	4ZCG1	—	—	FNQ-R	4TWK8
20	ATQR	4ZCG2	KLDR	486M41	FNQ-R	4TWK9
25	ATQR	4ZCG3	KLDR	486M42	FNQ-R	4TWL1
30	ATQR	4ZCG4	—	—	FNQ-R	49ZU35



No. 2AAN6

Safe-Touch (Plug-In Cube) Time-Delay UL Class J Fuses

EATON BUSSMANN SERIES

- AC Voltage Rating 600VAC
- Plug In Body Style
- These are finger-safe time-delay fuses that tolerate temporary inrush currents without opening, which prevents nuisance-blowing. They have a square shape that provides a small footprint for limited-space applications and makes them compatible with finger-safe Class J fuse blocks and holders. They have a visual indicator to make it easier to identify blown fuses.

Amps	Series	Item No.
Safe-Touch (Plug-In Cube) Time-Delay UL Class J Fuses, Indicating		
Equivalent Series TCF		
6	TCF	2AAN5
10	TCF	2AAN4
15	TCF	2ABZ7
17 1/2	TCF	2ABZ8
20	TCF	2ABZ9
25	TCF	2ACA1
30	TCF	2ACA3
40	TCF	2ACA4
45	TCF	2ACA5
50	TCF	2ACA6
60	TCF	2AAN6
70	TCF	2AAN7
80	TCF	2AAN8
90	TCF	2AAN9
100	TCF	2ABZ6



No. 30YD94

Class J Fuses

EATON BUSSMANN SERIES

- AC Voltage Rating 600VAC
- These fuses have a high interrupting rating for protecting against short circuits and are ideal for IEC motor starter applications. These fuses are not interchangeable with any other UL fuse class. They are current-limiting to prevent electrical damage by disconnecting circuits before they're exposed to the full magnitude and duration of an overcurrent.

Amps	Series	Item No.
Fast-Acting UL Class J Fuses, Nonindicating		
Equivalent Series A4J, JKS, JLS		
Cylindrical Body Style		
1	JKS	1DR85
3	JKS	4XF08
4	JKS	1DR86
5	JKS	1DR87
6	JKS	4XF09
10	JKS	4XF10
15	JKS	4XF11
20	JKS	4XF12
25	JKS	4XF13
30	JKS	4XF14
35	JKS	4XF15
40	JKS	6F351
45	JKS	4XF16
50	JKS	4XF17
60	JKS	4XF18
Bolt-On Body Style		
70	JKS	4XF19
80	JKS	4XF20
90	JKS	6F352
100	JKS	4XF21
110	JKS	6F353
125	JKS	4XF22
150	JKS	6F354
175	JKS	6F355
200	JKS	4XF23
225	JKS	6F356
250	JKS	6F357
300	JKS	6F358
350	JKS	6F359
400	JKS	4XF24
450	JKS	6F360
600	JKS	6F362
Equivalent Series DFJ, HSJ, LDFJ		
Cylindrical Body Style		
1	DFJ	30YD94
2	DFJ	30YD95
3	DFJ	30YD96
4	DFJ	30YD97
5	DFJ	30YD98
6	DFJ	30YD99
8	DFJ	30YE01
10	DFJ	30YE02
12	DFJ	30YE03
15	DFJ	30YE04
20	DFJ	30YE05
25	DFJ	30YE06
30	DFJ	30YE07
35	DFJ	30YE08
40	DFJ	30YE09
45	DFJ	30YE10
50	DFJ	30YE11
60	DFJ	30YE12
Blade Body Style		
70	DFJ	30YE13
80	DFJ	30YE14
90	DFJ	30YE15
100	DFJ	30YE16
110	DFJ	30YE17
125	DFJ	30YE18
150	DFJ	30YE19
175	DFJ	30YE20
200	DFJ	30YE21
225	DFJ	30YE22
250	DFJ	30YE23
300	DFJ	30YE24
350	DFJ	30YE25
400	DFJ	30YE26
450	DFJ	30YE27
500	DFJ	30YE28
600	DFJ	30YE29
Time-Delay UL Class J Fuses, Indicating		
Equivalent Series AJT, JTD-ID, LPJ-I		
Cylindrical Body Style		
6	LPJ-I	1VXZ7
7	LPJ-I	1VXZ8
8	LPJ-I	2AAH5
9	LPJ-I	2AAH7
10	LPJ-I	2ABR2
12	LPJ-I	2ABR5
15	LPJ-I	2ABR7
17 1/2	LPJ-I	2ABR8
20	LPJ-I	2ABT2
25	LPJ-I	2ABT5
30	LPJ-I	2ABT7
35	LPJ-I	2ABT9
40	LPJ-I	1PWE4
45	LPJ-I	1VXZ1
50	LPJ-I	1VXZ3
60	LPJ-I	1VXZ6
70	LPJ-I	4TWU7
80	LPJ-I	2AAH4
90	LPJ-I	2AAH6
100	LPJ-I	2ABR1
110	LPJ-I	2ABR3
125	LPJ-I	2ABR4
150	LPJ-I	2ABR6
175	LPJ-I	2ABR9
200	LPJ-I	2ABT1
225	LPJ-I	2ABT3
250	LPJ-I	2ABT4
300	LPJ-I	2ABT6
350	LPJ-I	2ABT8
400	LPJ-I	1MAH4
450	LPJ-I	1VXY9
500	LPJ-I	1VXZ2
600	LPJ-I	1VXZ5
Time-Delay UL Class J Fuses, Nonindicating		
Equivalent Series AJT, JTD, LPJ		
Cylindrical Body Style		
1	LPJ	6F363
1 1/4	LPJ	1DG79
1 6/10	LPJ	1DG80
1 8/10	LPJ	1DG81
2	LPJ	4XF25
2 1/4	LPJ	1DG83
2 1/2	LPJ	1DG82
2 8/10	LPJ	1DG84
3	LPJ	4XF26
3 2/10	LPJ	1DG86
3 1/2	LPJ	1DG85
4	LPJ	4XF27
4 1/2	LPJ	1DG87
5	LPJ	4XF28
5 9/10	LPJ	1DG88
6	LPJ	4XF29
7	LPJ	1DG89
8	LPJ	4XF30
9	LPJ	1DG91
10	LPJ	4XF31
12	LPJ	6F365
15	LPJ	4XF32
17 1/2	LPJ	6F366
20	LPJ	4XF33
25	LPJ	4XF34
30	LPJ	4XF35
35	LPJ	4XF36
40	LPJ	4XF37
45	LPJ	6F367
50	LPJ	4XF38
60	LPJ	4XF39
Blade Body Style		
70	LPJ	4XF40
80	LPJ	4XF41
90	LPJ	6F368
100	LPJ	4XF42
110	LPJ	6F369
125	LPJ	6F370
150	LPJ	6F371
175	LPJ	6F372
200	LPJ	6F373
225	LPJ	6F374
250	LPJ	6F375
300	LPJ	6F376
350	LPJ	6F377
400	LPJ	6F378
450	LPJ	6F379
500	LPJ	6F380
600	LPJ	6F381

Semiconductor Fuses

EATON BUSSMANN SERIES

These fuses provide overcurrent protection for solid-state components in power electronics applications. Also known as rectifier fuses, they are extremely current-limiting to prevent electrical damage by disconnecting circuits before they're exposed to the full magnitude and duration of an overcurrent.



No. 4XC87

Amps	AC Volt Rating	L	Series	Item No.
Fast-Acting Semiconductor Fuses, Indicating Equivalent Series 170M, PC, PSR: Bolt-On Body				
350	700V AC	1 31/32 in	170M	14L635
Equivalent Series 170N: Bolt-On Body				
65	660V AC	3 3/64 in	170N	14L650
Fast-Acting Semiconductor Fuses, Nonindicating Equivalent Series A15QS, FWA, L15S: Bolt-On Body				
1,000	150V AC	3 1/2 in	FWA-A	1DL11
70	150V AC	2 21/32 in	FWA-B	4XC79
80	150V AC	2 21/32 in	FWA-B	4XC80
100	150V AC	2 21/32 in	FWA-B	6F254
150	150V AC	2 21/32 in	FWA-B	4XC81
200	150V AC	2 21/32 in	FWA-B	4XC82
250	150V AC	2 21/32 in	FWA-B	4XC83
300	150V AC	2 21/32 in	FWA-B	4XC84
400	150V AC	2 21/32 in	FWA-B	4XC85
Equivalent Series A15QS, FWA, L15S: Cylindrical Body				
1,000	130V AC	1 1/8 in	FWA-AH	1EH41
1,500	130V AC	1 1/8 in	FWA-AH	1EH44
2,000	130V AC	1 1/8 in	FWA-AH	1EH45
3,000	130V AC	1 1/8 in	FWA-AH	1EH47
4,000	130V AC	1 1/8 in	FWA-AH	1EH49
5	150V AC	1 1/2 in	FWA-A10F	4XC71
10	150V AC	1 1/2 in	FWA-A10F	4XC73
15	150V AC	1 1/2 in	FWA-A10F	4XC74
20	150V AC	1 1/2 in	FWA-A10F	4XC75
25	150V AC	1 1/2 in	FWA-A10F	4XC76
30	150V AC	1 1/2 in	FWA-A10F	4XC77
35	150V AC	2 in	FWA-A21F	6F251
40	150V AC	2 in	FWA-A21F	4XC78
45	150V AC	2 in	FWA-A21F	1EH50
50	150V AC	2 in	FWA-A21F	6F252
60	150V AC	2 in	FWA-A21F	6F253
250	150V AC	2 21/32 in	FWA-ASI4	4TWL4
Equivalent Series A30QS, FWX, L25S: Bolt-On Body				
35	250V AC	3 3/16 in	FWX-A	1DM19
40	250V AC	3 3/16 in	FWX-A	4XC94
50	250V AC	3 3/16 in	FWX-A	4XC95
60	250V AC	3 3/16 in	FWX-A	4XC96
70	250V AC	3 1/8 in	FWX-A	4XC97
80	250V AC	3 1/8 in	FWX-A	4XC98
100	250V AC	3 1/8 in	FWX-A	4XC99
125	250V AC	3 1/8 in	FWX-A	6F268
150	250V AC	3 1/8 in	FWX-A	4XF00
175	250V AC	3 1/8 in	FWX-A	4TWN3
200	250V AC	3 1/8 in	FWX-A	4XF01
225	250V AC	3 27/32 in	FWX-A	1DL19
250	250V AC	3 27/32 in	FWX-A	4XF02
300	250V AC	3 27/32 in	FWX-A	4XF03
350	250V AC	3 27/32 in	FWX-A	4XF04
400	250V AC	3 27/32 in	FWX-A	4XF05
500	250V AC	3 27/32 in	FWX-A	4XF06
600	250V AC	3 27/32 in	FWX-A	4XF07
Equivalent Series A30QS, FWX, L25S: Cylindrical Body				
5	250V AC	2 in	FWX-A14F	4XC87
10	250V AC	2 in	FWX-A14F	4XC89
12	250V AC	2 in	FWX-A14F	6F267
15	250V AC	2 in	FWX-A14F	4XC90
20	250V AC	2 in	FWX-A14F	4XC91
25	250V AC	2 in	FWX-A14F	4XC92
30	250V AC	2 in	FWX-A14F	4XC93
Equivalent Series A50P, A50QS, FWH, L50S: Bolt-On Body				
1,000	500V AC	6 31/32 in	FWH-A	1EX39
1,200	500V AC	6 31/32 in	FWH-A	4TWL9
1,400	500V AC	10 7/32 in	FWH-A	1EH60
1,600	500V AC	10 7/32 in	FWH-A	1EH61
35	500V AC	3 3/16 in	FWH-A	1BZ87
35	500V AC	3 3/16 in	FWH-B	6F387
40	500V AC	3 3/16 in	FWH-A	1BZ88
45	500V AC	3 3/16 in	FWH-B	1BZ91
50	500V AC	3 3/16 in	FWH-B	6F389
60	500V AC	3 3/16 in	FWH-B	6F390
60	500V AC	3 3/16 in	FWH-A	1CV34
70	500V AC	3 3/8 in	FWH-A	1DX46
70	500V AC	3 3/8 in	FWH-B	6F391
80	500V AC	3 3/8 in	FWH-A	4TWN2
80	500V AC	3 3/8 in	FWH-B	6F392
90	500V AC	3 3/8 in	FWH-B	6F393
100	500V AC	3 3/8 in	FWH-A	1DX45
100	500V AC	3 3/8 in	FWH-B	6F394
125	500V AC	3 3/8 in	FWH-A	1DF55
125	500V AC	3 3/8 in	FWH-B	6F395
150	500V AC	3 3/8 in	FWH-B	6F396
175	500V AC	3 3/8 in	FWH-B	6F397
200	500V AC	3 3/8 in	FWH-B	6F398
225	500V AC	4 11/32 in	FWH-A	6F399
250	500V AC	4 11/32 in	FWH-A	6F400
275	500V AC	4 11/32 in	FWH-A	1DL17
300	500V AC	4 11/32 in	FWH-A	6F401
325	500V AC	4 11/32 in	FWH-A	1EM09
350	500V AC	4 11/32 in	FWH-A	6F403
400	500V AC	4 11/32 in	FWH-A	6F404
450	500V AC	4 11/32 in	FWH-A	4TWN1
500	500V AC	4 11/32 in	FWH-A	6F406
600	500V AC	4 11/32 in	FWH-A	6F407
700	500V AC	6 11/32 in	FWH-A	6F408
800	500V AC	6 11/32 in	FWH-A	6F409
Equivalent Series A50P, A50QS, FWH, L50S: Cylindrical Body				
5	500V AC	1 1/4 in	FWH-A6F	4TWL7
10	500V AC	2 in	FWH-A14F	6F382
15	500V AC	2 in	FWH-A14F	6F383
16	500V AC	1 1/4 in	FWH-A6F	4TWL8
20	500V AC	2 in	FWH-A14F	6F384
25	500V AC	2 in	FWH-A14F	6F385
30	500V AC	2 in	FWH-A14F	6F386
Equivalent Series A60Q, FWC: Cylindrical Body				
6	600V AC	1 1/2 in	FWC-A10F	4TWL6
10	600V AC	1 1/2 in	FWC-A10F	4TWL5
12	600V AC	1 1/2 in	FWC-A10F	1EH53
16	600V AC	1 1/2 in	FWC-A10F	1EH54
20	600V AC	1 1/2 in	FWC-A10F	1EH55
25	600V AC	1 1/2 in	FWC-A10F	1EH56
32	600V AC	1 1/2 in	FWC-A10F	1EH57
Equivalent Series A60X, KAC, KLC: Bolt-On Body				
20	600V AC	2 1/8 in	KAC	1DK16
25	600V AC	2 1/8 in	KAC	4TWR9
30	600V AC	2 1/8 in	KAC	1DK19
60	600V AC	4 3/8 in	KAC	4TWT1
70	600V AC	5 in	KAC	1EM13
100	600V AC	5 in	KAC	1EM12
125	600V AC	5 9/64 in	KAC	1DM65
150	600V AC	5 9/64 in	KAC	2GWC6
175	600V AC	5 9/64 in	KAC	2GWC7
200	600V AC	5 9/64 in	KAC	1DM68
250	600V AC	6 3/16 in	KAC	2GWC8
300	600V AC	6 3/16 in	KAC	2GWC9
400	600V AC	6 3/16 in	KAC	1EN68
500	600V AC	6 1/4 in	KAC	1EV21
600	600V AC	6 1/4 in	KAC	2GWD1
Equivalent Series A70P, A70QS, FWP, L70QS: Bolt-On Body				
1,000	700V AC	7 5/8 in	FWP-A	1EH90
35	700V AC	4 3/8 in	FWP-B	1EH98
40	700V AC	4 3/8 in	FWP-B	6F419
50	700V AC	4 3/8 in	FWP-B	6F420
60	700V AC	4 3/8 in	FWP-B	6F421
70	700V AC	4 13/32 in	FWP-B	6F422
80	700V AC	4 13/32 in	FWP-B	6F423
90	700V AC	4 13/32 in	FWP-B	6F424
100	700V AC	4 13/32 in	FWP-B	6F425
100	700V AC	4 7/16 in	FWP-A	1DJ80
125	700V AC	5 3/32 in	FWP-A	6F426
150	700V AC	5 3/32 in	FWP-A	6F427
175	700V AC	5 3/32 in	FWP-A	6F428
200	700V AC	5 3/32 in	FWP-A	6F429
225	700V AC	5 3/32 in	FWP-A	6F430
250	700V AC	5 3/32 in	FWP-A	6F431
300	700V AC	5 3/32 in	FWP-A	6F432
350	700V AC	5 3/32 in	FWP-A	6F433
400	700V AC	5 3/32 in	FWP-A	6F434
500	700V AC	7 3/32 in	FWP-A	6F435
600	700V AC	7 3/32 in	FWP-A	6F436
800	700V AC	6 5/8 in	FWP-A	1EP02
Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
10	700V AC	2 in	FWP-A14F	6F410
15	700V AC	2 in	FWP-A14F	6F411
20	700V AC	2 in	FWP-A14F	6F413
25	700V AC	2 in	FWP-A14F	6F415
30	700V AC	2 in	FWP-A14F	6F417
32	700V AC	2 in	FWP-A14F	1EH96
40	700V AC	2 in	FWP-A14F	1EH99
50	700V AC	2 in	FWP-A14F	1EJ02
50	700V AC	2 3/32 in	FWP-A22F	1EJ03
63	700V AC	2 3/32 in	FWP-A22F	1EJ05
80	700V AC	2 3/32 in	FWP-A22F	1EJ07
100	700V AC	2 3/32 in	FWP-A22F	1EH91
Equivalent Series A70QS, FWJ: Bolt-On Body				
2,000	1000V AC	6 13/16 in	FWJ	1EH71
50	1000V AC	5 in	FWJ	1EH84
80	1000V AC	4 15/16 in	FWJ	1EH88
150	1000V AC	5 11/16 in	FWJ	1EH67
200	1000V AC	5 11/16 in	FWJ	1EH72
300	1000V AC	5 3/4 in	FWJ	1EH76
Equivalent Series A70QS, FWJ: Cylindrical Body				
25	1000V AC	2 3/8 in	FWJ-A14F	1EH75
30	1000V AC	2 3/8 in	FWJ-A14F	1EH77
Equivalent Series AFX: Blade Body				
70	125V AC	3 1/2 in	AFX	1EN15
100	125V AC	3 1/2 in	AFX	1EN07
Equivalent Series KAJ: Cylindrical Body				
60	600V AC	3 in	KAJ	1DZ67
Very Fast-Acting Semiconductor Fuses, Indicating Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
50	700V AC	2 19/32 in	FWP	49ZU47
Very Fast-Acting Semiconductor Fuses, Nonindicating Equivalent Series A15QS, FWA, L15S: Bolt-On Body				
125	150V AC	2 21/32 in	FWA	49ZU38
600	150V AC	3 3/4 in	FWA	49ZU39
Equivalent Series A30QS, FWX, L25S: Bolt-On Body				
90	250V AC	3 1/8 in	FWX	49ZU51
700	250V AC	3 27/32 in	FWX	49ZU49
800	250V AC	3 27/32 in	FWX	49ZU50
Equivalent Series A50P, A50QS, FWH, L50S: Bolt-On Body				
40	500V AC	3 3/16 in	FWH	49ZU43
Equivalent Series A60Q, FWC: Cylindrical Body				
8	600V AC	1 1/2 in	FWC	49ZU42
30	600V AC	1 1/2 in	FWC	49ZU41
Equivalent Series A60X, KAC, KLC: Bolt-On Body				
35	600V AC	4 3/8 in	KAC	49ZU66
50	600V AC	4 3/8 in	KAC	49ZU67
80	600V AC	5 in	KAC	49ZU68
Equivalent Series A70P, A70QS, FWP, L70QS: Bolt-On Body				
15	700V AC	2 7/8 in	FWP	49ZU45
Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
40	700V AC	2 9/32 in	FWP	49ZU46



No. 6F518

EATON BUSSMANN SERIES

Class L Fuses

- AC Voltage Rating 600VAC
- Bolt-On Body Style
- These fuses protect electrical feeders and service equipment from overcurrent. These fuses are not interchangeable with any other UL fuse class. Class L fuses bolt onto their mountings for a secure hold.

Amps	Series	Item No.
Fast-Acting UL Class L Fuses, Nonindicating Equivalent Series A4BY, KLPC, KTU		
1,000	KTU	1EX15
1,200	KTU	1EX16
1,600	KTU	1FF40
2,000	KTU	4TWU5
601	KTU	4TWU6
800	KTU	1EX20
Time-Delay UL Class L Fuses, Nonindicating Equivalent Series A4BQ, A4BY, KLPC, KRP-C		
1,000	KRP-C	6F519
1,200	KRP-C	6F520
1,600	KRP-C	6F521
1,100	KRP-C	49ZU82
1,350	KRP-C	49ZU83
1,400	KRP-C	49ZU84
1,500	KRP-C	49ZU85
1,800	KRP-C	49ZU86
1,900	KRP-C	49ZU87
2,000	KRP-C	6F522
2,500	KRP-C	49ZU89
2,001	KRP-C	49ZU88
3,000	KRP-C	6F524
4,000	KRP-C	6F525
601	KRP-C	49ZU93
650	KRP-C	49ZU94
700	KRP-C	1EW37
750	KRP-C	49ZU95
800	KRP-C	6F518
801	KRP-C	49ZU96
900	KRP-C	49ZU97
Equivalent Series A4BQ, A4BY, KLPC, KRP-CL		
600	KRP-CL	49ZV01
Equivalent Series A4BY, KLLU, KLPC, KLU		
1,000	KLU	4XC66
1,200	KLU	4XC67
1,600	KLU	4XC68
1,800	KLU	49ZU81
2,000	KLU	4XC69
2,500	KLU	6F526
3,000	KLU	4TWU1
4,000	KLU	4TWU2
601	KLU	1EW32
650	KLU	1EW33
700	KLU	1EW34
800	KLU	4XC65



No. 1CP16

EATON BUSSMANN SERIES

Class G Fuses

- Cylindrical Body Style

These fuses protect against overcurrent in nondemanding applications. Each Class G fuse size will only fit its matching Class G fuse block or holder to prevent the wrong size fuse from being installed. They are not interchangeable with any other UL fuse class. These fuses have an interrupting rating (IR) of 100kA.

Amps	AC Volt Rating	Series	Item No.
Fast-Acting UL Class G Fuses, Nonindicating Equivalent Series AG, SC, SLC			
½	600V AC	SC	1CP18
1	600V AC	SC	1CP16
1 ½	600V AC	SC	1CP17
2	600V AC	SC	1CP22
3	600V AC	SC	1CP23
4	600V AC	SC	1CP24
5	600V AC	SC	1CP25
6	600V AC	SC	1CP26
Time-Delay UL Class G Fuses, Nonindicating Equivalent Series AG, SC, SLC			
8	600V AC	SC	1CP27
10	600V AC	SC	1CP19
12	600V AC	SC	1CP20
15	600V AC	SC	1CP21
20	600V AC	SC	1CZ45
25	480V AC	SC	1BW84
30	480V AC	SC	1BW85
35	480V AC	SC	1DH42
40	480V AC	SC	1DH43
45	480V AC	SC	1DH44
50	480V AC	SC	1DH45
60	480V AC	SC	1DH46

EATON BUSSMANN SERIES

Time-Delay UL Class H Fuses, Nonindicating

- Cylindrical Body Style
- These fuses have a 10kA interrupting rating (IR) for general purpose use. They have a fusible link that can be replaced after the fuse blows. These fuses tolerate temporary inrush currents to prevent nuisance-blowing but open when exposed to sustained loads and short circuits. These fuses have no indicator for identifying a blown fuse.



Amps	AC Volt Rating	Series	Item No.
Time-Delay UL Class H Fuses, Nonindicating Equivalent Series REN, RF, RLN			
3	250V AC	REN	4XH67
5	250V AC	REN	1EX50
6	250V AC	REN	4XH68
10	250V AC	REN	4XH69
15	250V AC	REN	4XH70
20	250V AC	REN	4XH71
30	250V AC	REN	4XH72
40	250V AC	REN	4XH73
50	250V AC	REN	1DZ86
60	250V AC	REN	4XH74
Equivalent Series RES, RFS, RLS			
6	600V AC	RES	4XH78
10	600V AC	RES	4XH79
15	600V AC	RES	4XH80
20	600V AC	RES	4XH81
25	600V AC	RES	1EM38
30	600V AC	RES	4XH82
35	600V AC	RES	1EV63
40	600V AC	RES	4XH83
60	600V AC	RES	4XH84



EATON BUSSMANN SERIES

Class K5 and H Fuses

These fuses are for general purpose use. They're highly sensitive to changes in current flow and open within seconds of being exposed to overloads and short circuits. They have no indicator for identifying a blown fuse. Class H fuses have an interrupting rating (IR) of 10kA. Class K5 fuses have an IR of 50kA and are current-limiting to prevent electrical damage.

Amps	AC Volt Rating	Fuse Size	Series	Item No.
Fast-Acting UL Class H & K5 Fuses, Nonindicating				
Equivalent Series NLN, NON, OT				
Cylindrical Body Style				
⅛	250VAC	2" L x 9/16" dia.	NON	**1DH27**
½	250VAC	2" L x 9/16" dia.	NON	**1DH26**
¾	250VAC	2" L x 9/16" dia.	NON	**1DH35**
1	250VAC	2" L x 9/16" dia.	NON	**4XF85**
1½	250VAC	2" L x 9/16" dia.	NON	**1DH25**
2	250VAC	2" L x 9/16" dia.	NON	**6C164**
2½	250VAC	2" L x 9/16" dia.	NON	**1DH33**
3	250VAC	2" L x 9/16" dia.	NON	**4XF86**
4	250VAC	2" L x 9/16" dia.	NON	**6C165**
5	250VAC	2" L x 9/16" dia.	NON	**6C166**
6	250VAC	2" L x 9/16" dia.	NON	**4XF87**
6¼	250VAC	2" L x 9/16" dia.	NON	**1DH36**
7	250VAC	2" L x 9/16" dia.	NON	**6F271**
8	250VAC	2" L x 9/16" dia.	NON	**4XF88**
10	250VAC	2" L x 9/16" dia.	NON	**4XF89**
12	250VAC	2" L x 9/16" dia.	NON	**6F272**
15	250VAC	2" L x 9/16" dia.	NON	**4XF90**
20	250VAC	2" L x 9/16" dia.	NON	**4XF91**
25	250VAC	2" L x 9/16" dia.	NON	**4XF92**
30	250VAC	2" L x 9/16" dia.	NON	**4XF93**
35	250VAC	3" L x 13/16" dia.	NON	**4XF94**
40	250VAC	3" L x 13/16" dia.	NON	**4XF95**
45	250VAC	3" L x 13/16" dia.	NON	**6F273**
50	250VAC	3" L x 13/16" dia.	NON	**4XF96**
60	250VAC	3" L x 13/16" dia.	NON	**4XF97**
Blade Body Style				
70	250VAC	5⅞" L x 1 1/16" dia.	NON	**1DX82**
80	250VAC	5⅞" L x 1 1/16" dia.	NON	**1DX83**
90	250VAC	5⅞" L x 1 1/16" dia.	NON	**1DX84**
100	250VAC	5⅞" L x 1 1/16" dia.	NON	**1DH28**
125	250VAC	7⅛" L x 1 9/16" dia.	NON	**1DH30**
150	250VAC	7⅛" L x 1 9/16" dia.	NON	**1DH31**
175	250VAC	7⅛" L x 1 9/16" dia.	NON	**1DH32**
200	250VAC	7⅛" L x 1 9/16" dia.	NON	**1DR08**
300	250VAC	8⅜" L x 2 1/16" dia.	NON	**1EM27**
350	250VAC	8⅜" L x 2 1/16" dia.	NON	**1EM28**
400	250VAC	8⅜" L x 2 1/16" dia.	NON	**1EM29**
600	250VAC	10⅜" L x 2 19/32" dia.	NON	**1ET97**
Equivalent Series NLS, NOS, OTS				
Cylindrical Body Style				
1	600VAC	5" L x 13/16" dia.	NOS	**1EM30**
2	600VAC	5" L x 13/16" dia.	NOS	**1EM31**
3	600VAC	5" L x 13/16" dia.	NOS	**1EM32**
4	600VAC	5" L x 13/16" dia.	NOS	**1EM33**
5	600VAC	5" L x 13/16" dia.	NOS	**4XH02**
6	600VAC	5" L x 13/16" dia.	NOS	**4XH03**
7	600VAC	5" L x 13/16" dia.	NOS	**1EM34**
8	600VAC	5" L x 13/16" dia.	NOS	**6F293**
10	600VAC	5" L x 13/16" dia.	NOS	**4XH04**
12	600VAC	5" L x 13/16" dia.	NOS	**6F294**
15	600VAC	5" L x 13/16" dia.	NOS	**4XH05**
20	600VAC	5" L x 13/16" dia.	NOS	**4XH06**
25	600VAC	5" L x 13/16" dia.	NOS	**4XH07**
30	600VAC	5" L x 13/16" dia.	NOS	**4XH08**
35	600VAC	5½" L x 1 1/16" dia.	NOS	**4XH09**
40	600VAC	5½" L x 1 1/16" dia.	NOS	**4XH10**
45	600VAC	5½" L x 1 1/16" dia.	NOS	**4XH11**
50	600VAC	5½" L x 1 1/16" dia.	NOS	**4XH12**
60	600VAC	5½" L x 1 1/16" dia.	NOS	**4XH13**
Blade Body Style				
70	600VAC	7 15/16" L x 1 9/16" dia.	NOS	**1DR15**
80	600VAC	7 15/16" L x 1 9/16" dia.	NOS	**1DR16**
90	600VAC	7 15/16" L x 1 9/16" dia.	NOS	**1DR17**
100	600VAC	7 15/16" L x 1 9/16" dia.	NOS	**1DR09**
110	600VAC	9⅝" L x 1 13/16" dia.	NOS	**1DR10**
125	600VAC	9⅝" L x 1 13/16" dia.	NOS	**1DR11**
150	600VAC	9⅝" L x 1 13/16" dia.	NOS	**1DR12**
175	600VAC	9⅝" L x 1 13/16" dia.	NOS	**1DR13**
200	600VAC	9⅝" L x 1 13/16" dia.	NOS	**1DR14**
250	600VAC	11⅝" L x 2 19/32" dia.	NOS	**1DT01**
300	600VAC	11⅝" L x 2 19/32" dia.	NOS	**1DT02**
400	600VAC	11⅝" L x 2 19/32" dia.	NOS	**1DT04**

Amps	AC Volt Rating	Series	Item No.	Pkg. Qty.
UL Class H Replacement Fuse Links				
For Fuse Series REN				
5	250VAC	LKN	**1CL39**	20
6	250VAC	LKN	**4XH89**	20
10	250VAC	LKN	**4XH90**	20
15	250VAC	LKN	**4XH91**	20
20	250VAC	LKN	**4XH92**	20
30	250VAC	LKN	**4XH93**	20
40	250VAC	LKN	**4XH94**	20
50	250VAC	LKN	**1CL40**	20
60	250VAC	LKN	**4XH95**	20
70	250VAC	LKN	**1CX33**	10
80	250VAC	LKN	**1CX34**	10
100	250VAC	LKN	**4XH96**	10
125	250VAC	LKN	**1CX30**	5
150	250VAC	LKN	**1CX31**	5
200	250VAC	LKN	**4XH97**	5
225	250VAC	LKN	**1DG71**	5
400	250VAC	LKN	**4XH98**	5
For Fuse Series RES				
5	600VAC	LKS	**1CL48**	20
6	600VAC	LKS	**4XH99**	20
10	600VAC	LKS	**4XK00**	20
15	600VAC	LKS	**4XK01**	20
20	600VAC	LKS	**4XK02**	20
30	600VAC	LKS	**4XK03**	20
40	600VAC	LKS	**4XK04**	20
60	600VAC	LKS	**4XK05**	20
70	600VAC	LKS	**1CX38**	10
100	600VAC	LKS	**4XK06**	10
200	600VAC	LKS	**4XK07**	5
225	600VAC	LKS	**1DN86**	5
600	600VAC	LKS	**1CX37**	2



EATON BUSSMANN SERIES

UL Class H Replacement Fuse Links

These fuse links replace a blown link in Class H renewable fuses. These metal elements restore function to the fuse, allowing the fuse body to be reused rather than replaced.



EATON BUSSMANN SERIES

Medium Voltage Fuses

These fuses provide overcurrent protection at voltages greater than 600VAC for use in medium-voltage transformers, feeder circuits, motor circuits, and fused switches. They meet American National Standards Institute (ANSI) design standards. The fuses are current-limiting to prevent electrical damage. **E-rated fuses** are for general purpose use. **R-rated fuses** are for backup applications. **PT-rated fuses** are for protecting potential transformers.

Amps	AC Volt Rating	Visual Indication	Fuse Size	Item No.
E-Rated Medium-Voltage Fuses				
Equivalent Series ABWNA				
1/2A	5500VAC	Nonindicating	5 19/32" L x 1" dia.	**4YEX2**
1A	5500VAC	Nonindicating	5 19/32" L x 1" dia.	**4YEX5**
2A	5500VAC	Nonindicating	5 19/32" L x 1" dia.	**4YEY3**
3A	5500VAC	Nonindicating	5 19/32" L x 1" dia.	**4YEY2**
5A	5500VAC	Nonindicating	5 19/32" L x 1" dia.	**4YEZ6**
Equivalent Series CAVH				
1/2A	15,500VAC	Indicating	12⅞" L x 1⅜" dia.	**4YEV2**
1A	15,500VAC	Nonindicating	12⅞" L x 1⅜" dia.	**4YEW4**
2A	15,500VAC	Nonindicating	12⅞" L x 1⅜" dia.	**4YEY6**
Equivalent Series JCU				
400A	5500VAC	Indicating	17⅞" L x 3" dia.	**4YEX8**
Equivalent Series JCW				
1/2A	2750/5500VAC	Nonindicating	7 5/16" L x 1 9/16" dia.	**4YEX6**
1A	2750/5500VAC	Nonindicating	7 5/16" L x 1 9/16" dia.	**4YEX3**
2A	2750/5500VAC	Nonindicating	7 5/16" L x 1 9/16" dia.	**4YEW2**
3A	2750/5500VAC	Nonindicating	7 5/16" L x 1 9/16" dia.	**4YEW7**
Equivalent Series JCY				
200A	5500VAC	Indicating	15⅞" L x 3" dia.	**1FG16**
PT Medium-Voltage fuses				
Equivalent Series A240T, JCD				
2A	2750VAC	Nonindicating	4½" L x 51/64" dia.	**4YEW5**
Equivalent Series A480T, AMWNA				
1/2A	5500VAC	Nonindicating	5 19/32" L x 51/64" dia.	**4YEW3**
1A	5500VAC	Nonindicating	5 19/32" L x 51/64" dia.	**4YEW6**
2A	5500VAC	Nonindicating	5 19/32" L x 51/64" dia.	**4YEV9**
3A	5500VAC	Nonindicating	5 19/32" L x 51/64" dia.	**4YEY5**
5A	5500VAC	Nonindicating	5 19/32" L x 51/64" dia.	**4YEV5**
Equivalent Series ABFNA				
3.15A	15,500VAC	Nonindicating	10" L x 1" dia.	**4YEY4**
Equivalent Series JCQ				
5A	5500VAC	Indicating	9½" L x 1 39/64" dia.	**4YEZ7**
R-Rated Medium-Voltage Fuses				
Equivalent Series A240R, JCK				
70A	2540VAC	Indicating	11¼" L x 3" dia.	**1FG56**
100A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEX1**
130A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEV6**
150A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEZ1**
170A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEV7**
200A	2540VAC	Indicating	11¼" L x 3" dia.	**1FG61**
230A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEW9**
390A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEW8**
450A	2540VAC	Indicating	11 13/64" L x 3" dia.	**4YEX4**
Equivalent Series JCR				
130A	8300VAC	Indicating	15 27/32" L x 3" dia.	**4YEY7**
170A	8300VAC	Indicating	15 27/32" L x 3" dia.	**4YEY1**



EATON BUSSMANN SERIES

Forklift Limiter Fuses

These fuses provide overcurrent protection for heavy-duty loads in lift trucks, scissor lifts, pallet movers, and other DC battery-powered equipment. They bolt onto their mountings for a secure hold. They have either a cylindrical body for standard installations or a flat body for use where installation space is limited. **ACK, ACL, and ALS Series fuses** have no indicator for identifying a blown fuse, so they're sometimes used with an indicating fuse block or cover. **ANL Series fuses** are time-delay and have a see-through window that reveals whether the fuse wire is intact or has melted. **ANN series fuses** are fast-acting and have a see-through window. The **fuse block** holds flat-body series ANL and ANN fuses.

Amps	DC Volt Rating	Body Style	Fuse Size	Series	Item No.
Fast-Acting Forklift Fuses, Indicating					
Equivalent Series ANN, CNN					
50A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC85**
60A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC87**
80A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC90**
100A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC71**
125A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC72**
150A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC73**
175A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC74**
200A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC75**
225A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC76**
250A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC77**
275A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC78**
300A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC79**
325A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC80**
350A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC82**
400A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC84**
500A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC86**
600A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**5KDK5**
800A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANN	**1DC91**
General Purpose Forklift Fuses, Nonindicating					
Equivalent Series ALS					
500A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**1EW67**
550A	48VDC	Bolt-On	4 1/4" L x 1 19/32" dia.	ALS	**1EW68**
250A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**38C732**
300A	80VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**38C733**
400A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**38C734**
175A	130VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**49ZT91**
200A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**49ZT92**
225A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**49ZT93**
350A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**49ZT94**
450A	48VDC	Bolt-On	3¾" L x 1 1/16" dia.	ALS	**49ZT95**
Time-Delay Forklift Fuses, Indicating					
Equivalent Series ANL, CNL					
35A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC62**
40A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC64**
50A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC66**
60A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC68**
80A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC69**
100A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC51**
125A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC52**
130A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC53**
150A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC54**
175A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC55**
200A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC56**
225A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC57**
250A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC58**
275A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC59**
300A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC60**
325A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC61**
350A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC63**
400A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC65**
500A	80VDC	Bolt-On	3⅜" L x ⅞" dia.	ANL	**1DC67**
Time-Delay Forklift Fuses, Nonindicating					
Equivalent Series ACK, CCK					
30A	130VDC	Bolt-On	2½" L x 9/16" dia.	ACK	**1CR56**
60A	130VDC	Bolt-On	3" L x ⅞" dia.	ACK	**1CR61**
140A	72VDC	Bolt-On	3¾" L x 1 5/32" dia.	ACK	**1EM94**
200A	72VDC	Bolt-On	3¾" L x 1 5/32" dia.	ACK	**1EW98**
300A	48VDC	Bolt-On	3¾" L x 1⅛" dia.	ACK	**1EN02**
80A	130VDC	Bolt-On	3½" L x 1⅛" dia.	ACK	**1EN05**
175A	72VDC	Bolt-On	3¾" L x 1 5/32" dia.	ACK	**49ZT88**
Equivalent Series ACL, CCL					
50A	72VDC	Bolt-On	2½" L x 9/16" dia.	ACL	**49ZT89**
60A	72VDC	Bolt-On	2½" L x 9/16" dia.	ACL	**49ZT90**

Amp Range	DC Volt Rating	Compatible Fuse Series	Series	Item No.
Fuse Blocks for Forklift Limiter Fuses				
10 to 800A	80VDC	ANL, ANN, CNL, CNN	4164	**1DK98**

Find even **MORE** on **Grainger.com®**
1-800-GRAINGER (472-4643)

Glass Fuses

EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN

These fuses provide overcurrent protection for low-current circuits. They're used for applications where they won't be exposed to high heat that could shatter the glass. Their small, cylindrical body is see-through for checking whether the fuse wire is intact or has melted.



No. 1CC56

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
Fast-Acting Glass Fuses					
Equiv. Series 217, GDB, GSB, S500, Size 20mm L x 5mm dia					
1	250V AC	GDB	Bussmann	1CC62	5
1	250V AC	S500	Bussmann	2ABV4	5
1¼	250V AC	GDB	Bussmann	1CC56	5
1¼	250V AC	S500	Bussmann	2ABU7	5
1⅝	250V AC	GDB	Bussmann	1CC57	5
1⅝	250V AC	S500	Bussmann	2ABU8	5
2	250V AC	GDB	Bussmann	1CC66	5
2	250V AC	S500	Bussmann	2ABV8	5
2½	250V AC	GDB	Bussmann	1CC63	5
2½	250V AC	S500	Bussmann	2ABV5	5
3 15/100	250V AC	GDB	Bussmann	1CC67	5
3 15/100	250V AC	S500	Bussmann	2ABV9	5
4	250V AC	GDB	Bussmann	1CC72	5
4	250V AC	S500	Bussmann	2ABW5	5
5	250V AC	GDB	Bussmann	1CC75	5
5	250V AC	S500	Bussmann	2ABW8	5
6 3/10	250V AC	GDB	Bussmann	1CC76	5
6 3/10	250V AC	S500	Bussmann	2ABW9	5
8	250V AC	GDB	Bussmann	1CD03	5
8	250V AC	S500	Bussmann	2ABX5	5
10	250V AC	GDB	Bussmann	1CC59	5
10	250V AC	S500	Bussmann	2ABV1	5
32m	250V AC	S500	Bussmann	2ABW2	5
32m	250V AC	GDB	Bussmann	4TWN8	5
50m	250V AC	S500	Bussmann	2ABW7	5
63m	250V AC	GDB	Bussmann	1CC78	5
63m	250V AC	S500	Bussmann	2ABX2	5
80m	250V AC	S500	Bussmann	2ABX4	5
100m	250V AC	GDB	Bussmann	1CC58	5
100m	250V AC	S500	Bussmann	2ABU9	5
125m	250V AC	GDB	Bussmann	1CC60	5
125m	250V AC	S500	Bussmann	2ABV2	5
160m	250V AC	GDB	Bussmann	1CC61	5
160m	250V AC	S500	Bussmann	2ABV3	5
200m	250V AC	GDB	Bussmann	1CC64	5
200m	250V AC	S500	Bussmann	2ABV6	5
250m	250V AC	GDB	Bussmann	1CC65	5
250m	250V AC	S500	Bussmann	2ABV7	5
315m	250V AC	GDB	Bussmann	1CC68	5
315m	250V AC	S500	Bussmann	2ABW1	5
400m	250V AC	GDB	Bussmann	1CC70	5
400m	250V AC	S500	Bussmann	2ABW3	5
500m	250V AC	GDB	Bussmann	1CC73	5
500m	250V AC	S500	Bussmann	2ABW6	5
630m	250V AC	GDB	Bussmann	1CC77	5
630m	250V AC	S500	Bussmann	2ABX1	5
800m	250V AC	GDB	Bussmann	1CC79	5
800m	250V AC	S500	Bussmann	2ABX3	5
Equiv. Series 235, GGM, GMA, Size 20mm L x 5mm dia					
1	250V AC	GMA	Bussmann	6F097	5
1¼	250V AC	GMA	Bussmann	1CJ35	5
1½	250V AC	GMA	Bussmann	6F099	5
1⅝	250V AC	GMA	Bussmann	6F100	5
2	250V AC	GMA	Bussmann	6F101	5
2½	250V AC	GMA	Bussmann	6F102	5
3	250V AC	GMA	Bussmann	6F103	5
3 15/100	125V AC	GMA	Bussmann	1CJ39	5
3½	125V AC	GMA	Bussmann	1CJ40	5
4	125V AC	GMA	Bussmann	6F104	5
5	125V AC	GMA	Bussmann	6F105	5
6	125V AC	GMA	Bussmann	6F106	5
7	125V AC	GMA	Bussmann	1CJ45	5
8	125V AC	GMA	Bussmann	1CJ46	5
10	125V AC	GMA	Bussmann	1CJ36	5
15	125V AC	GMA	Bussmann	1CJ37	5
63m	250V AC	GMA	Bussmann	6F087	5
100m	250V AC	GMA	Bussmann	6F088	5
125m	250V AC	GMA	Bussmann	6F089	5
200m	250V AC	GMA	Bussmann	6F090	5
250m	250V AC	GMA	Bussmann	6F091	5
300m	250V AC	GMA	Bussmann	1CJ41	5
315m	250V AC	GMA	Bussmann	4CX54	5
500m	250V AC	GMA	Bussmann	6F093	5
600m	250V AC	GMA	Bussmann	4CX55	5
750m	250V AC	GMA	Bussmann	6F094	5
800m	250V AC	GMA	Bussmann	6F096	5
Equiv. Series 311, 312, 3AG, AGC, GGC, MMB, Size 1¼ in L x ¼ in dia					
1/200	250V AC	AGC	Bussmann	1BZ02	5
1/20	250V AC	AGC	Bussmann	1BZ01	5
1/10	250V AC	AGC	Bussmann	6F003	5
1/8	250V AC	AGC	Bussmann	4XH36	5
1/8	250V AC	GGC	Mersen	5LAW4	5
15/100	250V AC	AGC	Bussmann	6F002	5
3/16	250V AC	AGC	Bussmann	6F005	5
2/10	250V AC	GGC	Mersen	5LAX2	5
2/10	250V AC	AGC	Bussmann	6F006	5
1/4	250V AC	AGC	Bussmann	4XH37	5
1/4	250V AC	GGC	Mersen	5LAW3	5
3/10	250V AC	GGC	Mersen	5LAX7	5
3/10	250V AC	AGC	Bussmann	6F007	5
3/8	250V AC	GGC	Mersen	5LAX9	5
3/8	250V AC	AGC	Bussmann	6F008	5
4/10	250V AC	AGC	Bussmann	6F009	5
1/2	250V AC	AGC	Bussmann	4XH38	5
1/2	250V AC	GGC	Mersen	5LAW2	5
5/10	250V AC	GGC	Mersen	5LAY5	5
6/10	250V AC	AGC	Bussmann	6F010	5
3/4	250V AC	AGC	Bussmann	4XH39	5
3/4	250V AC	GGC	Mersen	5LAX8	5
8/10	250V AC	AGC	Bussmann	6F011	5
1	250V AC	AGC	Bussmann	4XH40	5
1	250V AC	GGC	Mersen	5LAW0	5
1¼	250V AC	GGC	Mersen	5LAW7	5
1¼	250V AC	AGC	Bussmann	6F012	5
1½	250V AC	AGC	Bussmann	4XH41	5
1½	250V AC	GGC	Mersen	5LAW6	5
1⅝	250V AC	GGC	Mersen	5LAX0	5
1⅝	250V AC	AGC	Bussmann	6F013	5
2	250V AC	AGC	Bussmann	4XH42	5
2	250V AC	GGC	Mersen	5LAX1	5
2¼	250V AC	AGC	Bussmann	6F014	5
2½	250V AC	AGC	Bussmann	4XH43	5
2½	250V AC	GGC	Mersen	5LAX4	5
3	250V AC	AGC	Bussmann	4XH44	5
3	250V AC	GGC	Mersen	5LAX6	5
3 2/10	250V AC	GGC	Mersen	5LAY1	5
3 2/10	250V AC	AGC	Bussmann	6F015	5
3½	250V AC	AGC	Bussmann	1BZ08	5
4	250V AC	AGC	Bussmann	4XH45	5
4	250V AC	GGC	Mersen	5LAY2	5
5	250V AC	AGC	Bussmann	4XH46	5
5	250V AC	GGC	Mersen	5LAY3	5
6	250V AC	AGC	Bussmann	4XH47	5
6	250V AC	GGC	Mersen	5LAY4	5
6¼	250V AC	AGC	Bussmann	1BZ13	5
6 3/10	250V AC	GGC	Mersen	5LAY6	5
7	250V AC	AGC	Bussmann	1BZ14	5
7	250V AC	GGC	Mersen	5LAY7	5
7½	250V AC	GGC	Mersen	5LAY8	5
7½	250V AC	AGC	Bussmann	6F018	5
8	250V AC	AGC	Bussmann	4XH48	5
8	250V AC	GGC	Mersen	5LAY9	5
9	250V AC	AGC	Bussmann	1BZ15	5
10	250V AC	AGC	Bussmann	4XH49	5
10	250V AC	GGC	Mersen	5LAW5	5
12	32V AC	AGC	Bussmann	1BZ05	5
12	125V AC	GGC	Mersen	5LAW8	5
14	32V AC	AGC	Bussmann	1BZ06	5
15	32V AC	AGC	Bussmann	1BZ07	5
15	125V AC	GGC	Mersen	5LAW9	5
20	32V AC	AGC	Bussmann	4XH51	5
20	32V AC	GGC	Mersen	5LAX3	5
25	32V AC	AGC	Bussmann	4XH52	5
25	32V AC	GGC	Mersen	5LAX5	5
30	32V AC	AGC	Bussmann	4XH53	5
30	32V AC	GGC	Mersen	5LAY0	5
35	32V AC	AGC	Bussmann	1BZ09	5
40	32V AC	AGC	Bussmann	1BZ10	5
50	32V AC	AGC	Bussmann	1BZ12	5
Equiv. Series 361, 362, AGX, GGX, Size 1 in L x ¼ in dia					
1/10	250V AC	AGX	Bussmann	6F048	5
1/8	250V AC	AGX	Bussmann	6F049	5
1/4	250V AC	AGX	Bussmann	6F051	5
1/2	250V AC	GGX	Mersen	5LAZ1	5
1/2	250V AC	AGX	Bussmann	6F053	5
1	250V AC	GGX	Mersen	5LAZ0	5
1	250V AC	AGX	Bussmann	6F055	5
1½	250V AC	AGX	Bussmann	6F056	5
2	250V AC	GGX	Mersen	5LAZ2	5
2	250V AC	AGX	Bussmann	6F057	5
2½	125V AC	AGX	Bussmann	6F058	5
3	125V AC	GGX	Mersen	5LAZ3	5
3	250V AC	AGX	Bussmann	6F059	5
4	250V AC	AGX	Bussmann	6F060	5
5	125V AC	GGX	Mersen	5LAZ4	5
5	250V AC	AGX	Bussmann	6F061	5
6	125V AC	AGX	Bussmann	1DJ63	5
10	250V AC	AGX	Bussmann	1DJ53	5
15	250V AC	AGX	Bussmann	1DJ54	5
20	250V AC	AGX	Bussmann	1DJ56	5
Equiv. Series AGU, BLN, GGU, Size 1½ in x 13/32 in					
2	250V AC	AGU	Bussmann	1DJ21	1
5	32V AC	AGU	Bussmann	1DJ29	1
10	32V AC	AGU	Bussmann	1DJ19	1
20	32V AC	AGU	Bussmann	1DJ22	1
25	32V AC	AGU	Bussmann	1DJ23	1
30	32V AC	AGU	Bussmann	1DJ25	1
50	32V AC	AGU	Bussmann	1DJ30	1
One-Piece Fast-Acting Glass Fuses with Knob					
Equiv. Series GLQ, Size 2¼ in L x ⅝ in dia					
1	300V AC	GLQ	Bussmann	1CH97	1
1½	300V AC	GLQ	Bussmann	1CH98	1
3	300V AC	GLQ	Bussmann	1CJ03	1
5	300V AC	GLQ	Bussmann	1CJ04	1
10	300V AC	GLQ	Bussmann	1CJ01	1
Equiv. Series GLR, LGR, SLR, Size 1 29/32 in L x ¼ in dia					
½	300V AC	SLR	Mersen	5LCC3	5
1	300V AC	SLR	Mersen	5LCC2	5
1½	300V AC	SLR	Mersen	5LCC5	5
1⅝	300V AC	SLR	Mersen	5LCC8	5
2	300V AC	SLR	Mersen	5LCC9	5
3	300V AC	SLR	Mersen	5LCD0	5
4	300V AC	SLR	Mersen	5LCD1	5
5	300V AC	SLR	Mersen	5LCD2	5
6	300V AC	SLR	Mersen	5LCD3	5
7	300V AC	SLR	Mersen	5LCD4	5
8	300V AC	SLR	Mersen	5LCD5	5
10	300V AC	SLR	Mersen	5LCC4	5
12	300V AC	SLR	Mersen	5LCC6	5
15	300V AC	SLR	Mersen	5LCC7	5
Equiv. Series GLR, LGR, SLR, Size 2¼ in L x ⅝ in dia					
½	300V AC	GLR	Bussmann	1CJ10	1
1	300V AC	GLR	Bussmann	1CJ06	1
1½	300V AC	GLR	Bussmann	1CJ08	1
1⅝	300V AC	GLR	Bussmann	1CJ09	1
2	300V AC	GLR	Bussmann	1CJ14	1
3	300V AC	GLR	Bussmann	1CJ16	1
4	300V AC	GLR	Bussmann	1CJ17	1
5	300V AC	GLR	Bussmann	1CJ18	1
6	300V AC	GLR	Bussmann	1CJ19	1
7	300V AC	GLR	Bussmann	1CJ20	1
8	300V AC	GLR	Bussmann	1CJ21	1
10	300V AC	GLR	Bussmann	1CJ11	1
12	300V AC	GLR	Bussmann	1CJ12	1
15	300V AC	GLR	Bussmann	1CJ13	1
One-Piece Time-Delay Glass Fuses with Knob					
Equiv. Series GMF, LMF, SMF, Size 1 29/32 in L x ¼ in dia					
½	300V AC	SMF	Mersen	5LCD7	5
8/10	300V AC	SMF	Mersen	5LCE6	5
1	300V AC	SMF	Mersen	5LCD6	5
1¼	300V AC	SMF	Mersen	5LCD9	5
1⅝	300V AC	SMF	Mersen	5LCE0	5
2	300V AC	SMF	Mersen	5LCE1	5
3	300V AC	SMF	Mersen	5LCE2	5
3 2/10	300V AC	SMF	Mersen	5LCE3	5
4	300V AC	SMF	Mersen	5LCE4	5
5	300V AC	SMF	Mersen	5LCE5	5
10	300V AC	SMF	Mersen	5LCD8	5
Equiv. Series GMF, LMF, SMF, Size 2¼ in L x ⅝ in dia					
3/10	300V AC	GMF	Bussmann	1CK41	1
½	300V AC	GMF	Bussmann	1CK34	1
5/10	300V AC	GMF	Bussmann	1CK45	1
8/10	300V AC	GMF	Bussmann	1CK46	1
1	300V AC	GMF	Bussmann	1CK31	1
1¼	300V AC	GMF	Bussmann	1CK32	1
1⅝	300V AC	GMF	Bussmann	1CK33	1
2	300V AC	GMF	Bussmann	1CK36	1
2½	300V AC	GMF	Bussmann	1CK37	1
2 8/10	300V AC	GMF	Bussmann	1CK38	1
3	300V AC	GMF	Bussmann	1CK39	1
3 2/10	300V AC	GMF	Bussmann	1CK40	1
4	300V AC	GMF	Bussmann	1CK42	1
5	300V AC	GMF	Bussmann	1CK43	1
6¼	300V AC	GMF	Bussmann	1CK44	1
10	300V AC	GMF	Bussmann	1CK35	1
Equiv. Series GMQ, Size 2¼ in L x ⅝ in dia					
½	300V AC	GMQ	Bussmann	1CK50	1
8/10	300V AC	GMQ	Bussmann	1CK58	1
1	300V AC	GMQ	Bussmann	1CK47	1
1⅝	300V AC	GMQ	Bussmann	1CK49	1
3	300V AC	GMQ	Bussmann	1CK53	1
3 2/10	300V AC	GMQ	Bussmann	1CK54	1
5	300V AC	GMQ	Bussmann	1CK56	1
6¼	300V AC	GMQ	Bussmann	1CK57	1
Time-Delay Glass Fuses					
Equiv. Series 218, GDC, GDG, S506, Size 20mm L x 5mm dia					
1	250V AC	GDC	Bussmann	1CD09	5
1	250V AC	S506	Bussmann	2AUH7	5
1¼	250V AC	GDC	Bussmann	1CD04	5
1¼	250V AC	S506	Bussmann	1XFF5	5
1⅝	250V AC	GDC	Bussmann	1CD05	5
1⅝	250V AC	S506	Bussmann	2AAL4	5
2	250V AC	GDC	Bussmann	1CD13	5
2	250V AC	S506	Bussmann	2ABY7	5
2½	250V AC	GDC	Bussmann	1CD10	5
2½	250V AC	S506	Bussmann	2AUH8	5
3 15/100	250V AC	GDC	Bussmann	1CD14	5
3 15/100	250V AC	S506	Bussmann	2ABY8	5
4	250V AC	GDC	Bussmann	1CD19	5
4	250V AC	S506	Bussmann	2ABZ4	5
5	250V AC	GDC	Bussmann	1CD22	5
5	250V AC	S506	Bussmann	2AUJ1	5
6 3/10	250V AC	GDC	Bussmann	1CD23	5
6 3/10	250V AC	S506	Bussmann	2AUJ2	5
8	250V AC	S506	Bussmann	2AAN1	5
10	250V AC	S506	Bussmann	2AAL6	5
12½	250V AC	S506	Bussmann	2AAL7	5
32m	250V AC	S506	Bussmann	2ABZ1	5
50m	250V AC	S506	Bussmann	1VNE1	5
50m	250V AC	GDC	Bussmann	4TWP3	5
100m	250V AC	GDC	Bussmann	1CD06	5
100m	250V AC	S506	Bussmann	2AAL5	5
125m	250V AC	GDC	Bussmann	1CD07	5
125m	250V AC	S506	Bussmann	2AAL8	5
160m	250V AC	GDC	Bussmann	1CD08	5

CONTINUED

CONTINUED

Glass Fuses

EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN — MERSEN

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
Time-Delay Glass Fuses (Cont.)					
Equiv. Series 218, GDC, GDG, S506, Size 20mm L x 5mm dia (Cont.)					
160m	250V AC	S506	Bussmann	**2AAL9**	5
200m	250V AC	GDC	Bussmann	**1CD11**	5
200m	250V AC	S506	Bussmann	**2AUH9**	5
250m	250V AC	GDC	Bussmann	**1CD12**	5
250m	250V AC	S506	Bussmann	**2ABY6**	5
315m	250V AC	GDC	Bussmann	**1CD15**	5
315m	250V AC	S506	Bussmann	**2ABY9**	5
400m	250V AC	S506	Bussmann	**2ABZ2**	5
500m	250V AC	GDC	Bussmann	**1CD20**	5
500m	250V AC	S506	Bussmann	**2ABZ5**	5
630m	250V AC	GDC	Bussmann	**1CD24**	5
630m	250V AC	S506	Bussmann	**2AUJ3**	5
800m	250V AC	GDC	Bussmann	**1CD26**	5
800m	250V AC	S506	Bussmann	**2AUJ5**	5
Equiv. Series 239, GMC, GSC, Size 20mm L x 5mm dia					
1	250V AC	GMC	Bussmann	**1CJ52**	5
1¼	250V AC	GMC	Bussmann	**2ABN8**	5
1½	250V AC	GMC	Bussmann	**1CJ47**	5
1⅘10	250V AC	GMC	Bussmann	**1CJ48**	5
2	250V AC	GMC	Bussmann	**1CK02**	5
2½	250V AC	GMC	Bussmann	**1CJ53**	5
3	250V AC	GMC	Bussmann	**1CK06**	5
3 15⁄100	250V AC	GMC	Bussmann	**4CX57**	5
3½	125V AC	GMC	Bussmann	**1CK03**	5
4	125V AC	GMC	Bussmann	**1CK08**	5
5	125V AC	GMC	Bussmann	**1CK10**	5
6	125V AC	GMC	Bussmann	**1CK13**	5
6⅗10	125V AC	GMC	Bussmann	**2ABN9**	5
7	125V AC	GMC	Bussmann	**4CX59**	5
8	125V AC	GMC	Bussmann	**1CK16**	5
10	125V AC	GMC	Bussmann	**1CJ50**	5
63m	250V AC	GMC	Bussmann	**2ABP2**	5
100m	250V AC	GMC	Bussmann	**1CJ49**	5
125m	250V AC	GMC	Bussmann	**1CJ51**	5
150m	250V AC	GMC	Bussmann	**4CX56**	5
200m	250V AC	GMC	Bussmann	**1CJ54**	5
250m	250V AC	GMC	Bussmann	**1CK01**	5
300m	250V AC	GMC	Bussmann	**1CK04**	5
315m	250V AC	GMC	Bussmann	**1CK05**	5
400m	250V AC	GMC	Bussmann	**4TWP4**	5
500m	250V AC	GMC	Bussmann	**1CK09**	5
600m	250V AC	GMC	Bussmann	**2ABP1**	5
750m	250V AC	GMC	Bussmann	**1CK14**	5
800m	250V AC	GMC	Bussmann	**1CK15**	5
Equiv. Series 239, GMD, GSC, Size 20mm L x 5mm dia					
1	250V AC	GMD	Bussmann	**1CK20**	5
1¼	250V AC	GMD	Bussmann	**2ABP4**	5
1½	250V AC	GMD	Bussmann	**1CK17**	5
1⅘10	250V AC	GMD	Bussmann	**1CK18**	5
2	250V AC	GMD	Bussmann	**1CK24**	5
2½	250V AC	GMD	Bussmann	**1CK21**	5
3	250V AC	GMD	Bussmann	**1CK26**	5
4	250V AC	GMD	Bussmann	**2ABP5**	5
125m	250V AC	GMD	Bussmann	**1CK19**	5
250m	250V AC	GMD	Bussmann	**1CK23**	5
300m	250V AC	GMD	Bussmann	**1CK25**	5
315m	250V AC	GMD	Bussmann	**4CX62**	5
400m	250V AC	GMD	Bussmann	**4CX63**	5
500m	250V AC	GMD	Bussmann	**1CK27**	5
630m	250V AC	GMD	Bussmann	**2ABP7**	5
750m	250V AC	GMD	Bussmann	**2ABP8**	5
800m	250V AC	GMD	Bussmann	**2ABP9**	5
Equiv. Series 313, 315, GDL, GDV, MDL, MDQ, MDV, MDX, Size 1¼ in L x ¼ in dia					
1⁄100	250V AC	MDL	Bussmann	**1CM27**	5
1⁄32	250V AC	MDL	Bussmann	**1CM28**	5
1⁄16	250V AC	GDL	Mersen	**5LAT0**	5
1⁄16	250V AC	MDL	Bussmann	**6F020**	5
1⁄10	250V AC	GDL	Mersen	**5LAR9**	5
1⁄10	250V AC	MDL	Bussmann	**6F021**	5
⅛	250V AC	MDQ	Bussmann	**1CM68**	5
⅛	250V AC	GDL	Mersen	**5LAT3**	5
⅛	250V AC	MDL	Bussmann	**6F022**	5
15⁄100	250V AC	MDL	Bussmann	**1CM32**	5
2⁄10	250V AC	GDL	Mersen	**5LAU1**	5
2⁄10	250V AC	MDL	Bussmann	**6F023**	5
¼	250V AC	MDQ	Bussmann	**1CM67**	5
¼	250V AC	MDL	Bussmann	**4XH54**	5
¼	250V AC	GDL	Mersen	**5LAT2**	5
3⁄10	250V AC	GDL	Mersen	**5LAU6**	5
3⁄10	250V AC	MDL	Bussmann	**6F024**	5
⅜	250V AC	MDQ	Bussmann	**1CM86**	5
⅜	250V AC	GDL	Mersen	**5LAU8**	5
⅜	250V AC	MDL	Bussmann	**6F025**	5
4⁄10	250V AC	GDL	Mersen	**5LAV2**	5
4⁄10	250V AC	MDL	Bussmann	**6F026**	5
½	250V AC	MDQ	Bussmann	**1CM66**	5
½	250V AC	MDL	Bussmann	**4XH55**	5
½	250V AC	GDL	Mersen	**5LAT1**	5
6⁄10	250V AC	GDL	Mersen	**5LAV5**	5
6⁄10	250V AC	MDL	Bussmann	**6F027**	5
7⁄10	250V AC	MDL	Bussmann	**1CM40**	5
¾	250V AC	MDL	Bussmann	**4XH56**	5
¾	250V AC	GDL	Mersen	**5LAU7**	5
8⁄10	250V AC	GDL	Mersen	**5LAV9**	5
8⁄10	250V AC	MDL	Bussmann	**6F028**	5
1	250V AC	MDQ	Bussmann	**1CM59**	5
1	250V AC	MDL	Bussmann	**4XH57**	5
1	250V AC	GDL	Mersen	**5LAR8**	5
1 1⁄10	250V AC	MDL	Bussmann	**6F029**	5
1 ¼	250V AC	GDL	Mersen	**5LAT6**	5
1 ¼	250V AC	MDL	Bussmann	**6F030**	5
1 ½	250V AC	MDQ	Bussmann	**1CM60**	5
1 ½	250V AC	MDL	Bussmann	**4XH58**	5
1 ½	250V AC	GDL	Mersen	**5LAT5**	5
1 9⁄10	250V AC	GDL	Mersen	**5LAT9**	5
1 9⁄10	250V AC	MDL	Bussmann	**6F031**	5
1 9⁄10	250V AC	MDL	Bussmann	**1CM26**	5
2	250V AC	MDQ	Bussmann	**1CM74**	5
2	250V AC	MDL	Bussmann	**4XH59**	5
2	250V AC	GDL	Mersen	**5LAU0**	5
2 ¼	250V AC	MDL	Bussmann	**1CM34**	5
2 ½	250V AC	MDQ	Bussmann	**1CM75**	5
2 ½	250V AC	MDL	Bussmann	**4XH60**	5
2 ½	250V AC	GDL	Mersen	**5LAU3**	5
2 9⁄10	250V AC	MDL	Bussmann	**6F032**	5
3	250V AC	MDQ	Bussmann	**1CM80**	5
3	250V AC	MDL	Bussmann	**4XH61**	5
3	250V AC	GDL	Mersen	**5LAU5**	5
3 3⁄10	250V AC	MDQ	Bussmann	**1CM82**	5
3 3⁄10	250V AC	GDL	Mersen	**5LAV0**	5
3 3⁄10	250V AC	MDL	Bussmann	**6F033**	5
3 ½	250V AC	MDL	Bussmann	**1CM37**	5
3 ½	250V AC	MDQ	Bussmann	**1CM81**	5
4	250V AC	MDQ	Bussmann	**1CM87**	5
4	250V AC	MDL	Bussmann	**4XH62**	5
4	250V AC	GDL	Mersen	**5LAV1**	5
5	250V AC	MDQ	Bussmann	**1CM89**	5
5	250V AC	MDL	Bussmann	**4XH63**	5
5	250V AC	GDL	Mersen	**5LAV3**	5
6	250V AC	MDQ	Bussmann	**1CM90**	5
6	250V AC	GDL	Mersen	**5LAV4**	5
6	250V AC	MDL	Bussmann	**6F034**	5
6 ¼	250V AC	MDQ	Bussmann	**1CM91**	5
6 ¼	250V AC	GDL	Mersen	**5LAV6**	5
6 ¼	250V AC	MDL	Bussmann	**6F035**	5
7	250V AC	MDQ	Bussmann	**1CM93**	5
7	250V AC	MDL	Bussmann	**5C774**	5
7	250V AC	GDL	Mersen	**5LAV7**	5
7 ½	250V AC	MDL	Bussmann	**1CM39**	5
8	250V AC	MDL	Bussmann	**4XH64**	5
8	250V AC	GDL	Mersen	**5LAV8**	5
9	32V AC	MDL	Bussmann	**1CM41**	5
9	32V AC	MDQ	Bussmann	**1CM97**	5
10	32V AC	MDL	Bussmann	**1CM29**	5
10	32V AC	MDQ	Bussmann	**1CM69**	5
10	125V AC	GDL	Mersen	**5LAT4**	5
12	32V AC	MDL	Bussmann	**1CM30**	5
12	32V AC	MDQ	Bussmann	**1CM70**	5
12	125V AC	GDL	Mersen	**5LAT7**	5
15	32V AC	MDL	Bussmann	**1CM31**	5
15	32V AC	MDQ	Bussmann	**1CM71**	5
15	125V AC	GDL	Mersen	**5LAT8**	5
20	32V AC	MDL	Bussmann	**1CM35**	5
20	32V AC	GDL	Mersen	**5LAU2**	5
25	32V AC	MDL	Bussmann	**1CM36**	5
25	32V AC	GDL	Mersen	**5LAU4**	5
30	32V AC	MDL	Bussmann	**1CM38**	5
30	32V AC	GDL	Mersen	**5LAU9**	5



No. 5LAP0

EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN — MERSEN

Ceramic Fuses

- AC Voltage Rating 250VAC

These fuses protect against overcurrent in high-current circuits found in AC or DC electronics, appliances, and electrical equipment. They have higher interrupting ratings and withstand higher temperatures than glass fuses. Ceramic fuses shows no outward signs when the fuse has blown, so they're typically tested with a multimeter or ohmmeter to check their function. **Fast-acting fuses** open within seconds of being exposed to overloads and short circuits. They are sensitive to changes in current flow and power surges. **Time-delay fuses** tolerate temporary inrush currents without opening to prevent nuisance-blowing, but they open when exposed to sustained loads and short circuits.

Amps	Series	Brand	Item No.	Pkg. Qty.
Fast-Acting Ceramic Fuses				
Equiv. Series 216, GDA, GSD, S501, Size 20mm L x 5mm dia				
1	GDA	Bussmann	**1CC39**	5
1¼	GDA	Bussmann	**1CC34**	5
1⅘10	GDA	Bussmann	**1CC35**	5
2	GDA	Bussmann	**1CC43**	5
2	S501	Bussmann	**2AAK3**	5
2½	GDA	Bussmann	**1CC40**	5
2½	S501	Bussmann	**1VXR7**	5
3 15⁄100	GDA	Bussmann	**1CC44**	5
3 15⁄100	S501	Bussmann	**2AAK4**	5
4	GDA	Bussmann	**1CC47**	5
4	S501	Bussmann	**2AAK5**	5
5	GDA	Bussmann	**1CC50**	5
5	S501	Bussmann	**2AAK8**	5
6⅗10	GDA	Bussmann	**1CC51**	5
6⅗10	S501	Bussmann	**2AAK9**	5
8	S501	Bussmann	**2ABX6**	5
10	S501	Bussmann	**1VXR3**	5
50m	GDA	Bussmann	**4TWN6**	5
63m	GDA	Bussmann	**1CC53**	5
100m	GDA	Bussmann	**4TWN4**	5
160m	GDA	Bussmann	**1CC38**	5
200m	GDA	Bussmann	**1CC41**	5
200m	S501	Bussmann	**2AAK1**	5
250m	GDA	Bussmann	**4TWN5**	5
250m	S501	Bussmann	**2AAK2**	5
400m	GDA	Bussmann	**1CC46**	5
500m	GDA	Bussmann	**1CC48**	5
500m	S501	Bussmann	**2AAK6**	5
630m	GDA	Bussmann	**1CC52**	5
800m	GDA	Bussmann	**4TWN7**	5
Equiv. Series 314, ABC, GAB, Size 1¼ in L x ¼ in dia				
⅛	ABC	Bussmann	**1BX43**	5
¼	ABC	Bussmann	**1BX42**	5
¼	GAB	Mersen	**5LAP2**	5
½	ABC	Bussmann	**1BX41**	5
½	GAB	Mersen	**5LAP1**	5
¾	ABC	Bussmann	**6F037**	5
¾	GAB	Mersen	**5LAR1**	5
1	ABC	Bussmann	**6F038**	5
1	GAB	Mersen	**5LAP0**	5
1½	ABC	Bussmann	**1BX40**	5
2	ABC	Bussmann	**6F039**	5
2	GAB	Mersen	**5LAP6**	5
2½	ABC	Bussmann	**6F040**	5
2½	GAB	Mersen	**5LAP8**	5
3	ABC	Bussmann	**6F041**	5
3	GAB	Mersen	**5LAR0**	5
4	ABC	Bussmann	**6F042**	5
4	GAB	Mersen	**5LAR3**	5
5	ABC	Bussmann	**6F043**	5
5	GAB	Mersen	**5LAR4**	5
6	ABC	Bussmann	**6F044**	5
6	GAB	Mersen	**5LAR5**	5
7	ABC	Bussmann	**6F045**	5
7	GAB	Mersen	**5LAR6**	5
8	ABC	Bussmann	**6F046**	5
8	GAB	Mersen	**5LAR7**	5
9	ABC	Bussmann	**1BX50**	5
10	ABC	Bussmann	**6F047**	5
10	GAB	Mersen	**5LAP3**	5
12	ABC	Bussmann	**1BX44**	5
12	GAB	Mersen	**5LAP4**	5
15	ABC	Bussmann	**1BX45**	5
15	GAB	Mersen	**5LAP5**	5
20	ABC	Bussmann	**1BX46**	5
20	GAB	Mersen	**5LAP7**	5
25	ABC	Bussmann	**1BX47**	5
25	GAB	Mersen	**5LAP9**	5
30	ABC	Bussmann	**1BX49**	5
30	GAB	Mersen	**5LAR2**	5
Equiv. Series 322, GBB, Size 1¼ in L x ¼ in dia				
12	GBB	Bussmann	**1CC12**	5
15	GBB	Bussmann	**1CC13**	5
25	GBB	Bussmann	**1CC16**	5
30	GBB	Bussmann	**1CC18**	5
Time-Delay Ceramic Fuses				
Equiv. Series 215, GSF, S505, Size 20mm L x 5mm dia				
1	S505	Bussmann	**2ABY1**	5
1¼	S505	Bussmann	**2ABX7**	5
1⅘10	S505	Bussmann	**2ABX8**	5
2	S505	Bussmann	**2ABY3**	5
2½	S505	Bussmann	**2ABY2**	5
3 15⁄100	S505	Bussmann	**2ABY4**	5
4	S505	Bussmann	**2ABY5**	5
5	S505	Bussmann	**1TEH1**	5
6⅗10	S505	Bussmann	**1XFF2**	5
8	S505	Bussmann	**1XFF4**	5
10	S505	Bussmann	**2ABX9**	5
500m	S505	Bussmann	**1TEG9**	5
Equiv. Series 326, GSA, MDA, Size 1¼ in L x ¼ in dia				
¼	MDA	Bussmann	**1CL92**	5
½	MDA	Bussmann	**1CL90**	5
½	GSA	Mersen	**5LAZ6**	5
¾	MDA	Bussmann	**1CM08**	5
8⁄10	MDA	Bussmann	**1CM19**	5
1	MDA	Bussmann	**1CL85**	5
1	GSA	Mersen	**5LAZ5**	5
1¼	MDA	Bussmann	**1CL87**	5
1¼	GSA	Mersen	**5LCA0**	5
1½	MDA	Bussmann	**1CL86**	5
1½	GSA	Mersen	**5LAZ9**	5
2	MDA	Bussmann	**1CL98**	5
2	GSA	Mersen	**5LCA3**	5
2½	MDA	Bussmann	**1CL99**	5
2½	GSA	Mersen	**5LCA5**	5
3	MDA	Bussmann	**1CM05**	5
3	GSA	Mersen	**5LCA6**	5
4	MDA	Bussmann	**1CM11**	5
4	GSA	Mersen	**5LCA7**	5
5	MDA	Bussmann	**1CM13**	5
5	GSA	Mersen	**5LCA8**	5
6	MDA	Bussmann	**1CM14**	5
6	GSA	Mersen	**5LCA9**	5
6¼	MDA	Bussmann	**1CM15**	5
7	MDA	Bussmann	**1CM17**	5
7	GSA	Mersen	**5LCC0**	5
8	MDA	Bussmann	**1CM18**	5
8	GSA	Mersen	**5LCC1**	5
10	MDA	Bussmann	**1CL94**	5
10	GSA	Mersen	**5LAZ8**	5
12	MDA	Bussmann	**1CL95**	5
12	GSA	Mersen	**5LCA1**	5
15	MDA	Bussmann	**1CL96**	5
15	GSA	Mersen	**5LCA2**	5
20	MDA	Bussmann	**1CM03**	5
20	GSA	Mersen	**5LCA4**	5
25	MDA	Bussmann	**1CM04**	5
30	MDA	Bussmann	**1CM10**	5

EATON BUSSMANN SERIES

Telecom Protection Fuses

These fuses open within seconds of being exposed to overloads and short circuits. They are highly sensitive to changes in current flow and don't tolerate temporary overload currents or power surges. Sometimes called alarm fuses, they trigger an LED or audio alarm when they've blown to aid fuse replacement.

Amps	AC Volt Rating	DC Volt Rating	Body Style	Color Code	Series	Item No.
Fast-Acting Telecom Fuses, Indicating						
Equivalent Series 481, GMS, GMT						
1-1/3A	125VAC	60VDC	Pin	White	GMT	**1CK62**
1A	125VAC	60VDC	Pin	Gray	GMT	**1CK60**
2A	125VAC	60VDC	Pin	Orange	GMT	**1CK67**
3A	125VAC	60VDC	Pin	Blue	GMT	**1CK68**
5A	125VAC	60VDC	Pin	Green	GMT	**1CK72**
7-1/2A	125VAC	60VDC	Pin	Black/White	GMT	**1CK74**
10A	125VAC	60VDC	Pin	Red/White	GMT	**1CK65**
Equivalent Series TPA						
20A	Not Rated	65VDC	Cylindrical	No Color Code	TPA	**4CX91**



No. 1CK60

EATON BUSSMANN SERIES

Time-Delay Plug Fuses

- AC Voltage Rating 125VAC
- Screw-In Body Style

These are medium- to heavy-duty fuses for protecting residential or industrial electrical circuits with motors, relays, or solenoids. These slow-blow plug fuses tolerate temporary inrush currents without opening.



No. 3W757

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Time-Delay Plug Fuses				
Equivalent Series GSL, SL				
15	Rejection	SL	**6F462**	4
20	Rejection	SL	**6F463**	4
30	Rejection	SL	**6F465**	4
Equivalent Series GT, T, T00				
3/10	Nonrejection	T	**1CZ64**	4
8/10	Nonrejection	T	**1CZ75**	4
1	Nonrejection	T	**1CZ46**	4
1 8/10	Nonrejection	T	**1CZ51**	4
2	Nonrejection	T	**1CZ57**	4
2 1/2	Nonrejection	T	**1CZ58**	4
3	Nonrejection	T	**1CZ61**	4
3 2/10	Nonrejection	T	**1CZ63**	4
3 1/2	Nonrejection	T	**1CZ62**	4
4	Nonrejection	T	**1CZ65**	4
4 1/2	Nonrejection	T	**1CZ66**	4
5	Nonrejection	T	**1CZ68**	4
5 5/10	Nonrejection	T	**1CZ69**	4
6	Nonrejection	T	**1CZ70**	4
6 1/4	Nonrejection	T	**1CZ71**	4
7	Nonrejection	T	**1CZ73**	4
8	Nonrejection	T	**1CZ74**	4
9	Nonrejection	T	**1CZ76**	4
10	Nonrejection	T	**1CZ54**	4
12	Nonrejection	T	**1CZ55**	4
14	Nonrejection	T	**1CZ56**	4
15	Nonrejection	T	**3W757**	4
20	Nonrejection	T	**3W758**	4
25	Nonrejection	T	**3W759**	4
30	Nonrejection	T	**3W760**	4

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Equivalent Series GTL, TL, TL0				
20	Nonrejection	TL	**6F459**	4
25	Nonrejection	TL	**6F460**	4
30	Nonrejection	TL	**6F461**	4
Equivalent Series S, SL0, S00				
1 1/4	Rejection	S	**1CZ04**	4
1 6/10	Rejection	S	**1CZ07**	4
2	Rejection	S	**1CZ15**	4
3 2/10	Rejection	S	**1CZ23**	4
3 1/2	Rejection	S	**1CZ22**	4
4	Rejection	S	**1CZ26**	4
4 1/2	Rejection	S	**1CZ27**	4
5	Rejection	S	**1CZ29**	4
5 5/10	Rejection	S	**1CZ30**	4
6 1/4	Rejection	S	**1CZ32**	4
7	Rejection	S	**1CZ34**	4
8	Rejection	S	**1CZ35**	4
9	Rejection	S	**1CZ44**	4
10	Rejection	S	**1CZ11**	4
12	Rejection	S	**1CZ12**	4
14	Rejection	S	**1CZ13**	4
15	Rejection	S	**1CZ14**	4
20	Rejection	S	**1CZ19**	4
25	Rejection	S	**1CZ20**	4
30	Rejection	S	**1CZ25**	4
Equivalent Series TC				
25	Nonrejection	TC	**1DC02**	4

Fast Acting Plug Fuses

EATON BUSSMANN SERIES

- AC Voltage Rating 125VAC
- Screw-In Body Style

These are Type W fuses for protecting lighting, heating, and other residential and industrial circuits without motors. They open within seconds of being exposed to overloads and short circuits. Also called fast-blow plug fuses, they are highly sensitive to changes in current flow and don't tolerate temporary overload currents or power surges.



No. 1DC08

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Fast Acting Plug Fuses				
Equivalent Series GW, W, W00				
1A	Nonrejection	W	**1DC08**	4
2A	Nonrejection	W	**1DC10**	4
3A	Nonrejection	W	**6F466**	4
5A	Nonrejection	W	**1DC12**	4
6A	Nonrejection	W	**6F467**	4
8A	Nonrejection	W	**1DC13**	4
10A	Nonrejection	W	**6F468**	4

Plug Fuse Holders

EATON BUSSMANN SERIES

These carry screw-in plug fuses for overcurrent protection of motor circuits and supplemental protection of residential and industrial branch circuits. They have a threaded receptacle for the fuse and a lid that covers the fuse to protect against accidental contact with live clips. They're commonly used in equipment such as pumps, power tools, and HVAC blowers.



No. 1DH48

Cover Unit Configuration	No. of Fuse Holders	No. of On/Off Switches	No. of 125V Receptacles	Max. HP	Item No.
Plug Fuse Holders					
2¼" Handy Box Type					
Integrated Receptacle	1	0	1	½	**1DH48**
Integrated Switch	1	1	0	½	**1DH49**
Plain	1	0	0	¾	**1DD98**
2¾" Switch Box Type					
Integrated Receptacle	1	0	1	½	**1DK48**
4" Square Box Type					
Integrated Switch	1	1	0	½	**1DL58**
Plain	2	0	0	¾	**1DN02**
Plain	1	0	0	¾	**1DL56**

Total # of Fuses Incl.	Kit Amp Range	Fuses Included	Tool Included	Item No.
Glass Fuse Kits				
Fuse Series Included ABC, AGC, GJV, GMA, GMC, MDA, MDL, MDV				
270	⅛ to 30A	(5) MDL ⅛, ¼, ½, ¾, 1, 1½, 2, 3, 4, 5, 6; (5) MDA 8, 10, 15, 20, 30; (5) MDV ½, 1, 2, 3; (5) AGC ⅛, ¼, ½, ¾, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8; (5) ABC 10, 15, 20, 30; (5) GMA ¼, ½, 1, 2, 3, 4, 6; (5) GMC 1, 2, 3, 4, 6; (5) GJV ½, 1, 2, 3; (1) S-8202-2 Fuse Block; (1) HTB-26I Fuse Holder; (1) HTB-28M Fuse Holder; (2) 4121 Fuse Clips; (1) HHB Fuse Holder	None	**1EJ86**
Fuse Series Included ABC, AGC, GLH, GMA, MDL				
205	½ to 20A	(5) AGC ½, 1½, 4, 6, 7, 8, 10; (10) AGC 1, 2, 3, 5; (5) ABC 10, 20; (15) ABC 15; (5) MDL ½, 1½, 4, 5, 6, 7, 8; (10) MDL 1, 2, 3; (15) GLH 7; (5) GMA ½, 1, 2, 3, 5	None	**1DW56**
Fuse Series Included ABC, AGC, GMA, GMC, MDA, MDL				
260	¼ to 20A	(5) GMA ½, 1, 2, 3, 4, 5, 6, 10, 15; (5) GMC 2, 5, 10; (5) MDL ¼, ½, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8, 10, 15, 20; (5) MDA 5, 10, 12, 15, 20; (5) AGC ¼, ½, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8, 10, 15, 20; (5) ABC 5, 10, 12, 15, 20	(1) FT-3 Fuse Puller; (1) 6" Wire Strippers	**4YY88**

Total # of Fuses Incl.	Kit Amp Range	Fuses Included	Tool Included	Item No.
Midget & CC Class Fuse Kits				
Fuse Series Included FNQ, FNQ-R, KTK-R				
36	½ to 30A	(2) FNQ-R ½, 1, 2, 3, 4, 5; (2) FNQ, 10, 15, 20; (2) KTK-R 1, 2, 3, 5, 6, 10, 15, 20, 30	(1) FP-2 Fuse Puller	**1EJ87**
Fuse Series Included FNQ-R, LP-CC, KTK-R				
45	½ to 30A	(3) FNQ-R ½, 3, 5, 10; (3) LP-CC 5, 10, 15, 20, 30; (3) KTK-R 5, 10, 15, 20, 30	(1) Fuse Tester/ Puller, (1) 6" Wire Strippers	**4YY90**
UL Class Fuse Kits				
Fuse Series Included FRN-R				
28	3-2/10 to 100A	(2) FRN-R 3-2/10, 6¼, 10, 15, 25, 35, 40, 50, 100; (3) FRN-R 20, 60; (4) FRN-R 30; (2) 263-R Reducers	(2) No. 1 Clip Clamps; (2) No. 2 Clip Clamps; (1) Fuse Puller	**1FF19**
Fuse Series Included FRN-R, FRS-R				
39	10 to 100A	(3) FRN-R 10, 15, 20, 25, 30, 60, 100; (3) FRS-R 10, 15, 20, 30, 60, 100; (1) 263-R Reducer; (1) 663-R Reducer	(1) FP-2 Fuse Puller; (1) 6" Wire Strippers	**4YY91**
Fuse Series Included LPJ				
36	5 to 100A	(3) LPJ-SP 3, 5, 6, 10, 15, 20, 25, 30, 40, 50, 60, 100	(1) Fuse Puller, (1) 8⅝" Lineman Pliers	**4YY93**
Fuse Series Included LPN-RK, LPS-RK				
39	10 to 100A	(3) LPN-RK-10SP, 15, 20, 25, 30, 60, 100; (3) LPS-RK-10SP, 15, 20, 30, 60, 100; (1) 263-R Reducer; (1) 663-R Reducer	(1) FP-2 Fuse Puller; (1) 8⅝" Lineman Pliers	**4YY92**



No. 4YY88

EATON BUSSMANN SERIES

Fuse Assortment Kits

These kits include multiple fuses of different styles, series, or amperage ratings for use in new installations or as replacements for blown or faulty fuses. They help reduce downtime by providing a supply of commonly used fuses for maintaining overcurrent protection on electrical systems and equipment.

EATON
BUSSMANN SERIES

Finger-Safe Fuse Blocks

These are IP20-rated blocks that enclose fuses to protect against accidental contact with live wires, clips, and terminals. Indicating-style fuse blocks have a visual indicator to make it easier to identify blown fuses for replacement.



No. 13M216

Amp Range	Voltage Rating	Connector Type	Visual Indication	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Finger-Safe Fuse Blocks for Midget Fuses							
Fuse UL Class Midget, Compatible Fuse Series A60Q, AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, FWC, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM							
0 to 30A	600VAC/DC	Clamp/ Spade Lug	Nonindicating	CHM	13M221	13M223	13M225
0 to 30A	600VAC/DC	Clamp/ Spade Lug	Indicating	CHM	13M222	13M224	13M226
0 to 30A	600VAC/DC	Box Lug	Indicating	OPM-1038	—	—	4CX73
Finger-Safe Fuse Blocks for UL Class CC Fuses							
Fuse UL Class CC, Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC							
0 to 30A	600VAC/300VDC	Clamp/ Spade Lug	Nonindicating	CHCC	—	13M217	13M219
0 to 30A	600VAC/DC	Clamp/ Spade Lug	Nonindicating	CHCC	49ZU26	—	—
0 to 30A	600VAC/300VDC	Clamp/ Spade Lug	Indicating	CHCC	13M216	13M218	13M220
0 to 30A	600VAC/DC	Box Lug	Indicating	OPM-1038	—	—	4CX75
0 to 30A	600VAC/DC	Box Lug	Indicating	OPM-1038	—	—	4CX76

Amp Range	Voltage Rating	Connector Type	Visual Indication	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Finger-Safe Fuse Blocks for UL Class J Fuses							
Fuse UL Class J, Compatible Fuse Series A4J, AJT, DFJ, HSJ, JKS, JLS, JTD, JTD-ID, LDFJ, LPJ, LPJ-I							
0 to 30A	600VAC/DC	Box Lug	Indicating	CH	49ZU14	49ZU16	49ZU18
0 to 30A	600VAC/DC	Box Lug	Nonindicating	JT	5KK55	—	—
0 to 30A	600VAC/DC	Box Lug	Indicating	JT	5KK57	—	—
0 to 30A	600VAC/DC	Box Lug	Nonindicating	CH	49ZU13	49ZU15	49ZU17
31 to 60A	600VAC/DC	Box Lug	Indicating	CH	49ZU20	49ZU22	49ZU24
31 to 60A	600VAC/DC	Box Lug	Nonindicating	JT	5KK56	—	—
31 to 60A	600VAC/DC	Box Lug	Indicating	JT	5KK58	—	—
31 to 60A	600VAC/DC	Box Lug	Nonindicating	CH	49ZU19	49ZU21	49ZU23
Fuse UL Class J, Compatible Fuse Series FCF, TCF							
0 to 30A	600VAC/300VDC	Box Lug	Nonindicating	TCFH	5CFK0	—	—
31 to 60A	600VAC/DC	Box Lug	Nonindicating	TCFH	2AAP3	—	—
61 to 100A	600VAC/DC	Box Lug	Nonindicating	TCFH	2AAP1	—	—
Finger-Safe Fuse Blocks with Disconnect Switches							
Fuse UL Class CC, Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC							
0 to 30A	600VAC	Box Lug	Indicating	CCP	14L599	14L601	14L602
0 to 30A	80VDC	Box Lug	Indicating	CCP	14L606	—	—
0 to 30A	600VAC/300VDC	Box Lug	Indicating	OPM-1038	—	—	4CX77
0 to 30A	600VAC/300VDC	Box Lug	Indicating	OPM-1038	—	—	4CX78
Fuse UL Class J, Compatible Fuse Series TCF							
0 to 30A	600VAC	Box Lug	Indicating	CCP	14L608	14L609	14L610
31 to 60A	600VAC	Box Lug	Indicating	CCP	14L611	14L612	14L613
61 to 100A	600VAC	Box Lug	Indicating	CCP	14L614	14L615	14L616
Fuse UL Class Midget, Compatible Fuse Series A60Q, AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, FWC, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM							
0 to 30A	80VDC	Box Lug	Indicating	CCP	14L607	—	—
0 to 30A	240VAC	Box Lug	Indicating	CCP	14L603	14L604	14L605

EATON
BUSSMANN SERIES

Fuse Blocks

Provide a single unit for holding one or more fuses. They have an open top for access to fuses, clips or studs for securing fuses within the block, and terminals for connecting to the circuit.



No. 1CP54

Amp Range	Voltage Rating	Connector Type	Mounting Style	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Fuse Blocks for Class CC Fuses						
Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC						
0 to 30A	600VAC/300VDC	Pressure Plate	Bolt-Down; DIN Rail	40LH16	40LH14	40LH08
0 to 30A	600VAC/DC	Box Lug	Bolt-Down; DIN Rail	49ZT96	49ZT99	—
0 to 30A	600VAC/DC	Pressure Plate with Quick Connect	Bolt-Down; DIN Rail	49ZT97	49ZU01	49ZU03
0 to 30A	600VAC/DC	Screw with Quick Connect	Bolt-Down; DIN Rail	49ZT98	49ZU02	49ZU04
0 to 30A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	—	—	40LG68
Fuse Blocks for Class G Fuses						
Compatible Fuse Series AG, SC, SLC						
0 to 15A	600VAC/170VDC	Screw with Quick Connect	Bolt-Down	1DP74	1DZ15	1EK92
20A	600VAC/170VDC	Screw with Quick Connect	Bolt-Down	1DP77	—	1EK95
25 to 30A	480VAC/300VDC	Screw with Quick Connect	Bolt-Down	1DP80	1DZ21	1EK98
31 to 60A	480VAC/300VDC	Box Lug with Retaining Clip	Bolt-Down	—	—	1DP89
Fuse Blocks for Class H & K Fuses						
Compatible Fuse Series NLN, NON, OT, REN, RF, RLN						
0 to 30A	250VAC/125VDC	Box Lug	Bolt-Down; DIN Rail	40LG59	40LH10	40LH20
0 to 30A	250VAC/125VDC	Screw with Quick Connect	Bolt-Down; DIN Rail	40LG72	—	—
0 to 30A	250VAC/125VDC	Pressure Plate	Bolt-Down; DIN Rail	40LH11	40LG76	40LH18
0 to 30A	250VAC/125VDC	Screw	Bolt-Down; DIN Rail	40LH22	40LG67	40LH09
31 to 60A	250VAC/125VDC	Box Lug	Bolt-Down; DIN Rail	40LG95	40LG84	40LH12
61 to 100A	250VAC	Box Lug	Bolt-Down	39P334	—	—
61 to 100A	250VAC/125VDC	Box Lug	Bolt-Down	—	39P335	39P336
101 to 200A	250VAC	Box Lug	Bolt-Down	39P337	39P338	39P339
201 to 400A	250VAC	Box Lug	Bolt-Down	39P340	—	39P342
401 to 600A	250VAC	Box Lug	Bolt-Down	—	—	39P345
Compatible Fuse Series NLS, NOS, OTS, RES, RLS, RFS						
0 to 30A	600VAC	Pressure Plate	Bolt-Down; DIN Rail	40LG75	40LH30	40LG96
0 to 30A	600VAC	Box Lug	Bolt-Down; DIN Rail	40LH26	40LH17	40LG81
0 to 30A	600VAC	Screw	Bolt-Down; DIN Rail	40LH28	49ZU58	40LG91
31 to 60A	600VAC	Box Lug	Bolt-Down; DIN Rail	40LG62	40LG92	40LH36
61 to 100A	600VAC	Box Lug	Bolt-Down	39P366	39P367	39P368
101 to 200A	600VAC	Box Lug	Bolt-Down	39P369	—	39P371
201 to 400A	600VAC	Box Lug	Bolt-Down	39P372	—	39P374
401 to 600A	600VAC	Box Lug	Bolt-Down	39P375	—	—

Amp Range	Voltage Rating	Connector Type	Mounting Style	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Fuse Blocks for Class J Fuses						
Compatible Fuse Series A4J, AJT, DFJ, HSJ, JKS, JLS, JTD, JTD-ID, LDFJ, LPJ, LPJ-I						
0 to 30A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	40LG78	40LG79	—
0 to 30A	600VAC/300VDC	Pressure Plate	Bolt-Down; DIN Rail	40LH04	40LG99	40LH23
0 to 30A	600VAC/300VDC	Screw	Bolt-Down; DIN Rail	40LH05	49ZU64	40LG64
31 to 60A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	40LG90	40LG88	40LG97
61 to 100A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P398	39P399	39P401
101 to 200A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P402	39P403	39P404
201 to 400A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P405	39P406	39P407
401 to 600A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P408	39P409	39P410
Fuse Blocks for Class RK1 & RK5 Fuses						
Compatible Fuse Series A2D-R, A2K-R, FLNR, FRN-R, KLNR, KTN-R, KWN-R, LLNRK, LPN-RK, TR-R						
0 to 30A	250VAC/125VDC	Pressure Plate	Bolt-Down; DIN Rail	40LG83	40LG69	40LG73
0 to 30A	250VAC/125VDC	Box Lug	Bolt-Down; DIN Rail	40LH34	40LG74	40LH25
0 to 30A	250VAC	Screw	Bolt-Down; DIN Rail	49ZV33	49ZV34	49ZV35
31 to 60A	250VAC/125VDC	Box Lug	Bolt-Down; DIN Rail	40LH32	40LG94	40LH19
61 to 100A	250VAC/DC	Box Lug	Bolt-Down; DIN Rail	39P346	39P347	39P348
101 to 200A	250VAC/DC	Box Lug	Bolt-Down; DIN Rail	39P349	39P350	39P351
201 to 400A	250VAC/DC	Box Lug	Bolt-Down; DIN Rail	39P352	39P353	39P354
401 to 600A	250VAC/DC	Box Lug	Bolt-Down; DIN Rail	39P355	39P356	39P357
Compatible Fuse Series A6D-R, A6K-R, FRS-R, KLSR, KTS-R, KWS-R, LLSRK, LPS-RK, TRS-R						
0 to 30A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	40LG61	40LG77	40LG60
0 to 30A	600VAC	Screw	Bolt-Down; DIN Rail	49ZV36	—	49ZV37
0 to 30A	600VAC/300VDC	Pressure Plate	Bolt-Down; DIN Rail	40LG71	40LH21	40LG82
31 to 60A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	40LG89	40LH01	40LG87
61 to 100A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P378	39P379	39P380
101 to 200A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P381	39P382	39P383
201 to 400A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P384	39P385	39P386
401 to 600A	600VAC/300VDC	Box Lug	Bolt-Down; DIN Rail	39P387	—	39P389
Fuse Blocks for Class T Fuses						
Compatible Fuse Series A3T, JJN, JLLN, TJN						
0 to 30A	300VAC/DC	Box Lug	Bolt-Down	—	2GWA5	2GWA6
31 to 60A	300VAC/DC	Box Lug	Bolt-Down	—	1DT31	—
31 to 60A	300VAC/160VDC	Box Lug	Bolt-Down	—	—	1DX10
61 to 100A	300VAC/DC	Box Lug	Bolt-Down	2GWA9	2GWC1	49ZV38
101 to 200A	300VAC/DC	Box Lug	Bolt-Down	2GWC4	—	2GWC5
401 to 600A	300VAC/DC	Box Lug	Bolt-Down	1CP53	—	—
Compatible Fuse Series A6T, JJS, JLLS, LPT						
0 to 30A	600VAC/DC	Screw	Bolt-Down	49ZV39	49ZV40	49ZV41
0 to 30A	600VAC/DC	Box Lug	Bolt-Down	1CP54	2GWA4	1CP58
31 to 60A	600VAC/DC	Box Lug	Bolt-Down	2GWA7	2GWA8	1DT33
61 to 100A	600VAC/DC	Box Lug	Bolt-Down	2GWC2	2GWC3	1EM61
101 to 200A	600VAC/DC	Box Lug	Bolt-Down	1EK69	—	—
Fuse Blocks for Midget Fuses						
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM						
0 to 30A	600VAC/300VDC	Screw with Quick Connect	Bolt-Down; DIN Rail	40LG86	—	40LH13
0 to 30A	600VAC/DC	Screw with Quick Connect	Bolt-Down; DIN Rail	—	49ZU09	—
0 to 30A	600VAC/DC	Box Lug	Bolt-Down; DIN Rail	49ZU07	49ZU08	49ZU10
0 to 30A	600VAC/300VDC	Pressure Plate with Quick Connect	Bolt-Down; DIN Rail	40LG58	—	40LH15
Glass & Ceramic Fuse Blocks						
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB						
0 to 30A	300VAC/DC	Screw	Bolt-Down	1CZ43	1DK46	1DL55
0 to 30A	300VAC/DC	Quick Connect	Bolt-Down	1CZ42	—	—

EATON BUSSMANN SERIES

No. 1CV50



In-Line Fuse Holders

These are wire-mounted holders that connect anywhere along a circuit to protect specific lines. They allow these lines to be isolated in the event of a fault so that the rest of the wiring system won't be affected.

No. of Poles	Amp Range	Voltage Rating	Connector Type	Fuse Block Design	Item No.
In-Line Fuse Holders for Class CC & Midget Fuses					
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM					
1	0 to 30A	600VAC/DC	Crimp	Non-Breakaway	**1BW56**
1	0 to 30A	600VAC/DC	Crimp/Setscrew	Breakaway with Boots	**1CV50**
1	0 to 30A	600VAC/DC	Crimp	Breakaway with Boots	**6F453**
1	0 to 30A	600VAC/DC	Crimp/Setscrew	Non-Breakaway	**49ZU52**
2	0 to 30A	600VAC/DC	Crimp	Non-Breakaway	**49ZU55**
2	0 to 30A	600VAC/DC	Crimp	Breakaway with Boots	**49ZU56**
In-Line Fuse Holders for Glass & Ceramic Fuses					
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB					
1	0 to 15A	32VAC/DC	Wire Leads	Non-Breakaway	**1DL30**
1	0 to 20A	250VAC/125VDC	Crimp	Non-Breakaway	**1DD10**
Compatible Fuse Series SFE-20					
1	0 to 20A	32VAC	Wire Leads	Non-Breakaway	**1DL29**

EATON BUSSMANN SERIES



No. 1CV80

Panel-Mount Fuse Holders

These fuse holders have a cylindrical body that houses fuses and fits into electrical control panels and enclosures.

Amp Range	Voltage Rating	Connector Type	Fuse Cap Style	Mounting Hole	Item No.
Panel-Mount Fuse Holders for Class CC & Midget Fuses					
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM					
0 to 15A	600VAC	¼" Quick Connect	Screw Knob	1 1⁄64" dia.	**49ZU62**
0 to 30A	600VAC/DC	¼" Quick Connect	Screw Knob	⅜" x 13⁄16"	**1DW14**
0 to 30A	600VAC/DC	¼" Quick Connect	Screw Knob	1 1⁄64" dia.	**6F455**
0 to 30A	600VAC	¼" Quick Connect	Screw Knob	1 1⁄64" dia.	**49ZU60**
Panel-Mount Fuse Holders for Glass & Ceramic Fuses					
Compatible Fuse Series 215, 216, 217, 218, 235, 239, GDA, GDB, GDC, GDG, GGM, GMA, GMC, GMD, GSB, GSC, GSD, GSF, S500-506					
0 to 16A	250VAC/32VDC	⅜" Quick Connect	Screw Knob	½" x 29⁄64"	**6F456**
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB					
0 to 15A	250VAC/125VDC	Solder	Bayonet Knob	⅝" x 3⁄64"	**1CV80**
0 to 15A	250VAC/125VDC	¼" Quick Connect	Bayonet Knob	½" x 15⁄32"	**1CV90**
0 to 20A	250VAC/125VDC	¼" Quick Connect	Bayonet Knob	½" x 15⁄32"	**1CV89**
0 to 20A	250VAC/125VDC	⅜" Quick Connect	Screw Knob	½" x 29⁄64"	**1DD27**
0 to 20A	250VAC/125VDC	Right Angle ¼" Quick Connect	Screw Knob	½" x 29⁄64"	**1DD33**
0 to 20A	250VAC/125VDC	¼" Quick Connect	Screw Knob	½" x 15⁄32"	**1DD47**
0 to 30A	250VAC/125VDC	Solder	Bayonet Knob	½" x 15⁄32"	**6F457**
Panel-Mount Holders for Glass & Ceramic Fuses with Knob					
Compatible Fuse Series GLQ, GMQ					
0 to 1-6/10A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW02**
0 to 1/2A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW03**
0 to 3-1/2A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW05**
0 to 5A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW06**
0 to 6-1/4A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW07**
0 to 10A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW04**
Compatible Fuse Series GLR, GMF, GRF, LGR, LMF, SLR, SMF					
0 to 12A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**1CW08**
0 to 15A	300VAC	Wire Leads	—	⅜" x 4⁄64"	**49ZU57**

Fuse Reducers

EATON BUSSMANN SERIES

Adapt lower-rated fuses to fit higher-rated fuse blocks, fuse holders, and fused disconnect switches. They're used on fuses of the same class and voltage when switching from higher amperage to lower amperage ratings. These reducers maintain a strong electrical contact to help ensure proper fuse operation. UL Listed and CSA Certified.

No. 6F448



Amp Range	Max. Amps	Max. Voltage	Fits Fuse Block Style	Item No.
Fuse Reducers				
For Fuse Class H, K				
0 to 30A	60A	250VAC	Nonrejection	**6F448**
0 to 30A	60A	600VAC	Nonrejection	**6F451**
31 to 60A	100A	250VAC	Nonrejection	**6F450**
31 to 60A	100A	600VAC	Nonrejection	**6F452**
For Fuse Class RK1, RK5				
0 to 30A	60A	250VAC	Rejection	**1DH24**
0 to 30A	60A	600VAC	Rejection	**1DX81**
31 to 60A	100A	250VAC	Rejection	**1EN80**
31 to 60A	100A	600VAC	Rejection	**1EP28**
31 to 60A	200A	600VAC	Rejection	**1EV68**

No. 2G462



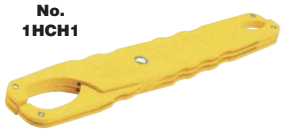
EATON BUSSMANN SERIES

Fuse Block Covers

These covers fit over fuses in open fuse blocks to protect against accidental contact with live wires, clips, and terminals.

Amp Range	For Use With	Nonindicating H	Nonindicating Item No.	Indicating H	Indicating Item No.
CVR Fuse Block Covers					
For Fuse Class CC and Midget					
0 to 30A	Bussmann Blocks with Quick-Connect Terminals	3.70"	**40LG80**	3.70"	**40LH31**
0 to 30A	Bussmann Blocks without Quick-Connect Terminals	3.70"	**40LH02**	3.70"	**40LG85**
For Fuse Class H, RK5 and RK1					
0 to 30A	Most Brands of Fuse Blocks	3.90"	**40LG66**	3.90"	**40LH06**
0 to 30A	Most Brands of Fuse Blocks	7.20"	**40LG63**	7.20"	**40LH29**
31 to 60A	Most Brands of Fuse Blocks	4.20"	**40LH03**	4.20"	**40LG65**
31 to 60A	Most Brands of Fuse Blocks	7.20"	**40LH35**	7.20"	**40LH27**
61 to 100A	Mfr. Model No. HM60100-1CR, HM60100-2CR, HM60100-3CR, RM60100-1CR, RM60100-2CR, RM60100-3CR	2.90"	**39P390**	2.90"	**39P394**
61 to 100A	Mfr. Model No. HM25100-1CR, HM25100-2CR, HM25100-3CR, RM25100-1CR, RM25100-2CR, RM25100-3CR	2.80"	**39P358**	2.80"	**39P362**
101 to 200A	Mfr. Model No. HM25200-1CR, HM25200-2CR, HM25200-3CR, RM25200-1CR, RM25200-2CR, RM25200-3CR	3.70"	**39P359**	3.70"	**39P363**
101 to 200A	Mfr. Model No. HM60200-1CR, HM60200-2CR, HM60200-3CR, RM60200-1CR, RM60200-2CR, RM60200-3CR	3.60"	**39P391**	3.60"	**39P395**
201 to 400A	Mfr. Model No. HM60400-1CR, HM60400-2CR, HM60400-3CR, RM60400-1CR, RM60400-2CR, RM60400-3CR	4.60"	**39P392**	4.60"	**39P396**
201 to 400A	Mfr. Model No. HM25400-1CR, HM25400-2CR, HM25400-3CR, RM25400-1CR, RM25400-2CR, RM25400-3CR	4.60"	**39P360**	4.60"	**39P364**
401 to 600A	Mfr. Model No. HM60600-1CR, HM60600-2CR, HM60600-3CR, RM60600-1CR, RM60600-2CR, RM60600-3CR	6.00"	**39P393**	6.00"	**39P397**
For Fuse Class J					
0 to 30A	Most Brands of Fuse Blocks	4.30"	**40LG70**	4.30"	**40LH07**
31 to 60A	Most Brands of Fuse Blocks	7.20"	**40LH33**	7.20"	**40LG98**
61 to 100A	Mfr. Model No. JM60100-1CR, JM60100-2CR, JM60100-3CR	2.90"	**39P411**	2.90"	**39P415**
101 to 200A	Mfr. Model No. JM60200-1CR, JM60200-2CR, JM60200-3CR	3.60"	**39P412**	3.60"	**39P416**
201 to 400A	Mfr. Model No. JM60400-1CR, JM60400-2CR, JM60400-3CR	4.60"	**39P413**	4.60"	**39P417**
401 to 600A	Mfr. Model No. JM60600-1CR, JM60600-2CR, JM60600-3CR	6.00"	**39P414**	6.00"	**39P418**
SAMI Fuse Block Covers					
For Fuse Class CC and Midget					
0 to 100A	Most Brands of Fuse Blocks	3.82"	**2G464**	3.82"	**2G462**
For Fuse Class H, K5, RK5 and RK1					
0 to 30A	Most Brands of Fuse Blocks	2.07"	**2G444**	7.03"	**2G442**
31 to 60A	Most Brands of Fuse Blocks	2.18"	**2G456**	8.20	**2G454**
For Fuse Class H, K5, RK5 and RK1 (250VAC), J (600VAC)					
0 to 60A	Most Brands of Fuse Blocks	1.94"	**2F994**	5.02"	**2F986**
For Fuse Class H, K5, RK5 and RK1 (250VAC), T (600VAC)					
0 to 30A	Most Brands of Fuse Blocks	3.82"	**2G472**	3.82"	**2G470**

No. 1HCH1



No. 6F446



EATON BUSSMANN SERIES

IDEAL

Fuse Pullers

Safely remove fuses from blocks and holders without breaking them.

Overall Length	Color	For Use With	Material	Brand	Item No.
Small Fuse Pullers					
2"	Yellow	Glass Tube and ATC Fuses	Nylon	Bussmann	**5KK54**
5"	Blue	Fuse Types 0-30, 600V or 0-60, 250V, 13⁄32" to 13⁄16" dia. Fuses	Nylon	Bussmann	**6F446**
7¼"	White	For 0 to 60A T-Tron Fuses	Nylon	Bussmann	**1BZ81**
5"	Yellow	For 250V, 9⁄32" to ½" dia. Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**39N412**
5"	Yellow	For 0 to 30A/250V, ¼" to ½" dia. Fuses	Nylon	IDEAL	**39N415**
Medium Fuse Pullers					
7¼"	Gray	1" to 1¾" dia. 0 to 100/0 to 60 Amperes Fuses	Nylon	Bussmann	**6F447**
7½"	Yellow	½" to 1" dia. Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**3KUU6**
Medium Fuse Pullers w/Test Lights					
7¼"	Yellow	Pulls 9⁄16" to 1" dia. Fuses , 100A/250V and 60A/600V Fuses	Nylon	IDEAL	**39N414**
Large Fuse Pullers					
7¼"	Gray	1¾" to 2½" dia. Fuses	Nylon	Bussmann	**1BZ80**
11¾"	Yellow	¾" to 2½" dia. Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**1HCH1**
7¼"	Yellow	9⁄16" to 1" dia. Fuses	Nylon	IDEAL	**3KUU8**



1-Pole QO® Plug-In



1-Pole QOB Bolt-On



1-Pole Tandem



2-Pole QO Plug-In



2-Pole GFCI



3-Pole QO® Plug-In

SQUARE D by Schneider Electric

QO® (Plug-In) and QOB (Bolt-On) Circuit Breakers

- 120/240VAC
- Visi-Trip® indicator
- Standard and VH breakers are UL Listed as HACR type

Qwik-Open® (QO) breakers are for use only with QO load centers and NQ/NQOD panelboards. QOB breakers are for use only with NQ/NQOD panelboards. Rated for aluminum and copper conductors.

	1-POLE				2-POLE				3-POLE			
	QO Plug-In		QOB Bolt-On		QO Plug-In		QOB Bolt-On		QO Plug-In		QOB Bolt-On	
Amps	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Standard 10kA at 120/240V AC IR												
10	QO110	**5B720**	QOB110	**1H822**	QO210	**5B738**	QOB210	**2DM53**	QO310	**1D320**	QOB310	**2DM79**
15	QO115	**1D230** *	QOB115	**1H823**	QO215	**1D254**	QOB215	**1H884**	QO315	**1D321**	QOB315	**1H893**
20	QO120	**1D234** *	QOB120	**1H824**	QO220	**1D301**	QOB220	**1H885**	QO320	**1D322**	QOB320	**1H894**
25	QO125	**5B723**	QOB125	**2DM46**	QO225	**5B741**	QOB225	**2DM65**	QO325	**5B760**	QOB325	**2GNF6**
30	QO130	**1D239**	QOB130	**1H825**	QO230	**1D307**	QOB230	**1H886**	QO330	**1D324**	QOB330	**1H895**
35	QO135	**5B726**	QOB135	**2GNE9**	QO235	**5B743**	QOB235	**2DM70**	QO335	**5B761**	QOB335	**2GNF9**
40	QO140	**1D243**	QOB140	**1H826**	QO240	**1D311**	QOB240	**1H887**	QO340	**1D326**	QOB340	**1H896**
45	QO145	**5B727**	QOB145	**2GNF3**	QO245	**5B744**	QOB245	**2DM72**	QO345	**5B762**	QOB345	**2DM95**
50	QO150	**1D244**	QOB150	**1H879**	QO250	**1D313**	QOB250	**1H888**	QO350	**1D327**	QOB350	**1H897**
60	QO160	**1D246**	QOB160	**1H880**	QO260	**1D315**	QOB260	**1H889**	QO360	**1D328**	QOB360	**1H898**
70	QO170	**1D247**	QOB170	**2GLE4**	QO270	**1D317**	QOB270	**1H890**	QO370	**1D329**	QOB370	**2DN01**
80	—	—	—	—	QO280	**1D318**	QOB280	**2GLJ6**	QO380	**1D330**	QOB380	**2DN04**
90	—	—	—	—	QO290	**1D319**	QOB290	**2GLJ8**	QO390	**1D331**	QOB390	**2GLN7**
100	—	—	—	—	QO2100	**1D251**	QOB2100	**1H881**	QO3100	**5A539**	QOB3100	**1H891**
110	—	—	—	—	QO2110	**1D252**	QOB2110	**2DM56**	—	—	—	—
125	—	—	—	—	QO2125	**1D253**	QOB2125	**1H882**	—	—	—	—
VH (High Interrupting Capacity), 22kA at 120/240V AC IR												
15	QO115VH	**2GLP4**	QOB115VH	**2GLC4**	QO215VH	**2GLR4**	QOB215VH	**2GLF3**	QO315VH	**2DG81**	QOB315VH	**2GNH2**
20	QO120VH	**1D238**	QOB120VH	**2DM45**	QO220VH	**1D306**	QOB220VH	**2GLF8**	QO320VH	**2GLX2**	QOB320VH	**2GLL1**
30	QO130VH	**1D242**	QOB130VH	**2DM48**	QO230VH	**1D310**	QOB230VH	**2GLG6**	QO330VH	**1D325**	QOB330VH	**2GLL5**
40	—	—	—	—	QO240VH	**2DH30**	QOB240VH	**2GLH2**	QO340VH	**2DG87**	QOB340VH	**2GLL8**
50	—	—	—	—	QO250VH	**2GLV5**	QOB250VH	**2GLH7**	QO350VH	**2GLY2**	QOB350VH	**2GLN2**
60	—	—	—	—	QO260VH	**2GLV8**	QOB260VH	**2GLJ2**	QO360VH	**5B764**	QOB360VH	**2DM99**
80	—	—	—	—	QO280VH	**2GLW3**	QOB280VH	**2GLJ7**	QO380VH	**2GNG6**	QOB380VH	**2GLN6**
100	—	—	—	—	QO2100VH	**2GNG3**	QOB2100VH	**2GLE7**	QO3100VH	**2DG78**	QOB3100VH	**2GLK4**
125	—	—	—	—	QO2125VH	**2DG53**	QOB2125VH	**2GNG8**	—	—	QOB3125VH	**2DM83**
150	—	—	—	—	QO2150VH	**2GLR6**	QOB2150VH	**2GLF4**	—	—	QOB3150VH	**2DM84**
Shunt Trip, Type 1021 Provide Remote Trip from a Separate Circuit, 120/208/240VAC Control, 10kA at 120/240V AC IR												
15	QO1151021	**2GLP5**	QOB1151021	**2GLC5**	QO2151021	**2GLR7**	QOB2151021	**2GLF5**	QO3151021	**2GLW8**	QOB3151021	**2GLK8**
20	QO1201021	**2CT17**	QOB1201021	**2GLC8**	QO2201021	**2DG56**	QOB2201021	**2GLF9**	QO3201021	**2GLX3**	QOB3201021	**2GLL2**
30	QO1301021	**2GLP6**	QOB1301021	**2GLD7**	QO2301021	**2DG61**	QOB2301021	**2DM66**	QO3301021	**2DG84**	QOB3301021	**2GLL6**
40	QO1401021	**2GNH5**	QOB1401021	**2GLD9**	QO2401021	**2GLV2**	QOB2401021	**2GLH3**	QO3401021	**2GLX9**	QOB3401021	**2GLL9**
50	QO1501021	**2GLR1**	QOB1501021	**2GLE2**	QO2501021	**2GLV6**	QOB2501021	**2GLH8**	QO3501021	**2DG88**	QOB3501021	**2GLN3**
60	QO1601021	**2GLR2**	QOB1601021	**2GLE3**	QO2601021	**2GLV9**	QOB2601021	**2GLJ3**	QO3601021	**2GLY3**	QOB3601021	**2GLN4**
70	—	—	QOB1701021	**2GLE5**	QO2701021	**2GLW2**	QOB2701021	**2GLJ5**	QO3701021	**2GLY4**	QOB3701021	**2DN02**
80	—	—	—	—	QO2801021	**2GLW4**	QOB2801021	**2GNH8**	QO3801021	**2GLY5**	QOB3801021	**2DN05**
90	—	—	—	—	QO2901021	**2GLW5**	QOB2901021	**2GLK1**	QO3901021	**2GLY7**	QOB3901021	**2GLN9**
100	—	—	—	—	QO21001021	**2DG50**	QOB21001021	**2GLE8**	QO31001021	**2DG77**	QOB31001021	**2DM80**
HID (High Intensity Discharge), For Use In Lighting Panels, Switch Rated, 10kA IR												
15	QO115HID	**1D232**	QOB115HID	**2GLC2**	QO215HID	**1D256**	QOB215HID	**2GLF2**	QO315HID	**2GLW6**	QOB315HID	**2GLK6**
20	QO120HID	**1D236**	QOB120HID	**2DM43**	QO220HID	**1D305**	QOB220HID	**2GLF7**	QO320HID	**2GLW9**	QOB320HID	**2GLK9**
30	QO130HID	**1D241**	QOB130HID	**2GLD6**	QO230HID	**1D309**	QOB230HID	**2GLG4**	—	—	—	—
50	—	—	—	—	—	—	QOB250HID	**2GLH6**	—	—	—	—
HM (High Magnetic), Recommended For High Initial Inrush Loads, 10 kA IR												
15	QO115HM	**1D233** *	QOB115HM	**2GLC3**	—	—	—	—	—	—	—	—
20	QO120HM	**1D237**	QOB120HM	**2DM44**	—	—	—	—	—	—	—	—
H (UL Listed 5kA IR on 3-Phase Corner Grounded Delta Systems), 10kA at 120/240V AC IR												
100	—	—	—	—	—	—	QOB2100H	**2GLE6**	—	—	—	—
SWN (Switch Neutral), 2 Pole Breakers Have 1 Hot, 1 Neutral, 3 Pole Breakers Have 2 Hot, 1 Neutral), 10kA IR												
15	—	—	—	—	QO215SWN	**5B739**	QOB215SWN	**2DM59**	QO315SWN	**2GLW7**	QOB315SWN	**2GLK7**
20	—	—	—	—	QO220SWN	**5B740**	QOB220SWN	**2GNJ2**	QO320SWN	**2GLX1**	QOB320SWN	**2DM87**
30	—	—	—	—	QO230SWN	**5B742**	QOB230SWN	**2GLG5**	QO330SWN	**2GLX7**	QOB330SWN	**2GLL4**
40	—	—	—	—	QO240SWN	**2GLV1**	QOB240SWN	**2GLH1**	QO340SWN	**2GLX8**	QOB340SWN	**2GLL7**
50	—	—	—	—	QO250SWN	**2GLV4**	—	—	QO350SWN	**2GLY1**	QOB350SWN	**2GLN1**
GFCI (Ground Fault Circuit Interrupter), 6mA Trip, Used Where Personal Protection is Required, 10kA IR												
15	QO115GFI	**1D231**	QOB115GFI	**2GLC1**	QO215GFI	**1D255**	QOB215GFI	**2GLF1**	QO315GFI	**6RHG1**	QOB315GFI	**6PHL6**
20	QO120GFI	**1D235**	QOB120GFI	**2DG99**	QO220GFI	**1D304**	QOB220GFI	**2DH05**	QO320GFI	**6RHG3**	QOB320GFI	**6PHL8**
30	QO130GFI	**1D240**	QOB130GFI	**2DH03**	QO230GFI	**1D308**	QOB230GFI	**2DH06**	QO330GFI	**6RHG5**	QOB330GFI	**6RHF5**
40	—	—	—	—	QO240GFI	**1D312**	QOB240GFI	**2GLG8**	QO340GFI	**6RHG7**	QOB340GFI	**6RHF7**
50	—	—	—	—	QO250GFI	**1D314**	QOB250GFI	**2GLH5**	QO350GFI	**6RHG9**	QOB350GFI	**6RHF9**
60	—	—	—	—	QO260GFI	**1D316**	QOB260GFI	**2GLJ1**	—	—	—	—
EPD (Equipment Protection Device), 30mA Trip, Used Where Equipment Ground Fault Protection is Required, 10kA IR												
15	QO115EPD	**2GLP3**	QOB115EPD	**2GLA9**	QO215EPD	**2DM35**	QOB215EPD	**2GLE9**	QO315EPD	**6RHG0**	QOB315EPD	**6PHL5**
20	QO120EPD	**2DM33**	QOB120EPD	**2GLC7**	QO220EPD	**2DM36**	QOB220EPD	**2GLF6**	QO320EPD	**6RHG2**	QOB320EPD	**6PHL7**
30	QO130EPD	**2DM34**	QOB130EPD	**2GLD5**	QO230EPD	**2DM37**	QOB230EPD	**2DM67**	QO330EPD	**6RHG4**	QOB330EPD	**6RHF4**
40	—	—	—	—	—	—	QOB240EPD	**2GLG7**	QO340EPD	**6RHG6**	QOB340EPD	**6RHF6**
50	—	—	—	—	QO250EPD	**2GLV3**	QOB250EPD	**2GLH4**	QO350EPD	**6RHG8**	QOB350EPD	**6RHF8**
60	—	—	—	—	QO260EPD	**2GLV7**	QOB260EPD	**2GLH9**	—	—	—	—
AFI (Arc Fault Interrupter), Meets NEC Code Section 210-12 Requirements (Consult Local Codes for Required Locations), 10kA IR												
15	QO115CAFI	**12R454** †	QOB115AFI	**2GLA8**	—	—	—	—	—	—	—	—
15	QO115AFI	**3XE17**	QOB115CAFI	**12R458** †	—	—	—	—	—	—	—	—
15	QO115PCAFI	**30YE76** †‡	—	—	—	—	—	—	—	—	—	—
20	QO120PCAFI	**30YE78** †‡	—	—	—	—	—	—	—	—	—	—
20	QO120CAFI	**12R455** †	QOB120AFI	**2GLC6**	—	—	—	—	—	—	—	—
20	QO120AFI	**3XE18**	QOB120CAFI	**12R459** †	—	—	—	—	—	—	—	—
AFI (Arc Fault Interrupter), Meets NEC Code Section 210-12 Requirements (Consult Local Codes for Required Locations), 22kA IR												
15	QO115VHPCAFI	**30YE77** †‡	—	—	—	—	—	—	—	—	—	—
15	QO115VHCAFI	**12R456** †	QOB115VHCAFI	**12R460** †	—	—	—	—	—	—	—	—
20	QO120VHCAFI	**12R457** †	QOB120VHCAFI	**12R461** †	—	—	—	—	—	—	—	—
20	QO120VHPCAFI	**30YE79** †‡	—	—	—	—	—	—	—	—	—	—
QO Tandem, Used on Older Non-CTL QO Load Centers, 10kA at 120/240V AC IR												
15	QO1515	**1D245**	—	—	—	—	—	—	—	—	—	—
20	QO1520	**5B728**	—	—	—	—	—	—	—	—	—	—
20	QO2020	**1D250**	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	QO20303020	**2DG49**	—	—	—	—	—	—
QOT Tandem, Used on Newer QO Load Centers that have a Mounting Rail Slot 10kA at 120/240V AC IR												
15	QOT1515	**1D336**	—	—	—	—	—	—	—	—	—	—
15/20	QOT1520	**5B778**	—	—	—	—	—	—	—	—	—	—
20	QOT2020	**1D337**	—	—	—	—	—	—	—	—	—	—
SB Surge Suppressor, 27kAkA IR												
—	—	—	—	—	QO2175SB	**3XB84**	—	—	—	—	—	—

** UL Listed as SWD (switching duty) rated. † Combination arc fault interrupter senses both parallel and series arcing. ‡ Plug-on neutral.*

Square D Load Center Selection

To choose the proper Load Center for your needs, start by asking yourself the following:

- Do you need a Load Center (14½"W residential enclosure) or a panelboard (20"W commercial enclosure)?
- What type of service do you need: single-phase or 3-phase?
- Do you need an indoor or outdoor Load Center?
- What type of Load Center is required, Main Breaker or Main Lug? (Main Lug has no main disconnect in the load center.)
- What is the max. amperage size of the service?
- How many total spaces does the Load Center require?
- If QO is selected, will you require a Plug-On Neutral arc fault breaker Load Center?
- Verify the Short Circuit Current Rating (SCCR) of the voltage system to ensure correct Load Center for the application

QO® Load Centers

SQUARE D by Schneider Electric

- 120/240VAC
- Use only QO circuit breakers (see page 188)
- Accessories available; see Grainger.com® or call 1-800-GRAINGER (472-4643)

INDOOR, NEMA 1

Can be rotated for top or bottom feed. Required low-profile covers with automatic flush adjustment are included with some models; see table.

OUTDOOR, NEMA 3R

- Main frame size: QOM1 for convertible 100 to 125A; QOM2 for 150 to 225A
- Complete with cover and door

Feature split-branch neutral terminals. Can be bottom-fed, but wires must be routed to the top of the panel.



Indoor



Outdoor

Phase	Amps	No. of Spaces	Max. No. of Tandem Breakers	INDOOR, NEMA 1 W	INDOOR, NEMA 1 H	Rec. Flush Cover	Rec. Surface Cover	Item No.	OUTDOOR, NEMA 3R W	OUTDOOR, NEMA 3R H	Item No.
Convertible, Main Circuit Breaker											
1	100 A	24	0	14 1/4 in	20 29/32 in	1D433	1D434	**30YE81**	—	—	—
1	200 A	30	0	14 1/4 in	29 27/32 in	1D435	1D436	**30YE83**	—	—	—
1	200 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**2GNU1**	—	—	—
1	200 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**30YE85**	—	—	—
1	200 A	54	0	14 1/4 in	39 3/8 in	Mfr. No. QOC54UF	Mfr. No. QOC54US	**30YE87**	—	—	—
1	200 A	60	0	14 1/4 in	43 5/32 in	Included	Included	**30YE88**	—	—	—
1	225 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**2GNU4**	14 49/64 in	37 63/64 in	**2GNW1**
3	100 A	27	0	14 1/4 in	29 27/32 in	1D435	1D436	**1D772**	14 49/64 in	29 27/32 in	**1D769**
3	125 A	30	0	14 1/4 in	39 3/8 in	3XB93	3XB94	**2GNU7**	14 49/64 in	39 3/8 in	**2GNW4**
3	150 A	30	0	14 1/4 in	39 3/8 in	3XB93	3XB94	**3XB89**	14 49/64 in	39 3/8 in	**2GNW7**
3	200 A	30	0	14 1/4 in	39 3/8 in	3XB93	3XB94	**3XB90**	14 49/64 in	39 3/8 in	**2GNX1**
3	200 A	42	0	14 1/4 in	39 3/8 in	3XB93	3XB94	**3XB91**	14 49/64 in	39 3/8 in	**2GNX6**
3	225 A	42	0	14 1/4 in	39 3/8 in	3XB93	3XB94	**3XB92**	14 49/64 in	39 3/8 in	**2GNX4**
Convertible, Main Lug											
1	125 A	24	0	14 1/4 in	20 29/32 in	1D433	1D434	**30YE80**	—	—	—
1	150 A	30	0	14 1/4 in	29 27/32 in	1D435	1D436	**5F690**	—	—	—
1	200 A	30	10	14 1/4 in	29 27/32 in	1D435	1D436	**30YE82**	—	—	—
1	200 A	40	20	—	—	—	—	—	14 49/64 in	33 25/32 in	**6PHL2**
1	225 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**5F704**	—	—	—
1	225 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**30YE84**	—	—	—
1	225 A	54	0	14 1/4 in	39 3/8 in	Mfr. No. QOC54UF	Mfr. No. QOC54US	**30YE86**	—	—	—
Main Lug											
1	30 A	2	0	3 13/16 in	6 47/64 in	—	Included	**5B755** *	—	—	—
1	40 A	2	0	—	—	—	—	—	4 7/8 in	9 3/8 in	**5B756**
1	70 A	2	2	4 51/64 in	9 19/64 in	—	Included	**1D390**	4 7/8 in	9 3/8 in	**1D389**
1	100 A	6	6	8 29/32 in	12 9/16 in	—	Included	**1D420** ‡	8 29/32 in	12 41/64 in	**1D419**
1	100 A	6	6	8 29/32 in	12 9/16 in	—	Included	**5B767**	—	—	—
1	100 A	8	8	8 29/32 in	12 9/16 in	—	Included	**5B770**	8 29/32 in	12 41/64 in	**1D423**
1	100 A	8	8	8 29/32 in	12 9/16 in	Included	—	**5B769**	—	—	—
3	60 A	3	0	5 7/8 in	13 7/64 in	—	Included	**1D413**	6 15/16 in	13 3/16 in	**1D412**
3	125 A	12	0	14 1/4 in	17 29/32 in	1D427	1D428	**1D400**	14 49/64 in	18 15/16 in	**1D401**
3	125 A	20	0	14 1/4 in	20 29/32 in	1D433	1D434	**1D405**	14 49/64 in	22 1/2 in	**1D406**
3	125 A	24	0	14 1/4 in	20 29/32 in	1D433	1D434	**6B460**	—	—	—
3	200 A	18	0	14 1/4 in	29 27/32 in	1D435	1D436	**1D402**	14 49/64 in	29 27/32 in	**1D403**
3	200 A	30	0	14 1/4 in	29 27/32 in	1D435	1D436	**1D407**	14 49/64 in	29 27/32 in	**1D408**
3	225 A	42	0	14 1/4 in	37 63/64 in	1D441	1D442	**1D409**	14 49/64 in	37 63/64 in	**1D410**

** Mains rated 25A when aluminum wire is used. Will not accept GFI breaker. † Includes 4 end plates. ‡ Without door.*

Type	FLUSH Item No.	SURFACE Item No.
Covers		
16 Spaces	**1D427**	**1D428**
24 Spaces	**1D433**	**1D434**
30 Spaces	**1D435**	**1D436**
42 Spaces	**1D441**	**1D442**
42 Spaces	**3XB93**	**3XB94**

Amps	AC Volt Rating	Low Amp Trip Setting	High Amp Trip Setting	2-POLE Item No.	3-POLE Item No.
Standard					
LAL Series, 42kA at 240V AC					
125 A	600V AC	625 A	1,250 A	**2GMD1**	—
150 A	600V AC	750 A	1,500 A	**2GMD2**	**5B912**
175 A	600V AC	875 A	1,750 A	**2GMD3**	—
200 A	600V AC	1,000 A	2,000 A	**2GMD4**	**5B913**
225 A	600V AC	1,125 A	2,250 A	**2GMD5**	**5B914**
250 A	600V AC	1,250 A	2,500 A	**2GMD6**	**5B915**
300 A	600V AC	1,500 A	3,000 A	**5B910**	**5B916**
350 A	600V AC	1,750 A	3,500 A	**2GMD7**	**5B917**
400 A	600V AC	2,000 A	4,000 A	**2GMD8**	**5B918**
Q4 Series, 25kA at 120/240V AC					
250 A	240V AC	1,250 A	2,500 A	**2GMD9**	**5B962**
300 A	240V AC	1,500 A	3,000 A	**5B960**	**2KDF1**
350 A	240V AC	1,750 A	3,500 A	**2GME1**	**2KDF2**
400 A	240V AC	2,000 A	4,000 A	**5B961**	**5B965**
Motor Circuit Protector					
GJL Series, 18kA at 600V AC					
3 A	347/600V AC	8.8 A	32 A	—	**2JWT6**
LAL Series, 42kA at 240V AC					
400 A	600V AC	1,250 A	2,500 A	—	**5B919**
400 A	600V AC	1,500 A	3,000 A	—	**2JWX5**
400 A	600V AC	1,750 A	3,500 A	—	**5B920**
400 A	600V AC	2,000 A	4,000 A	—	**5B921**

SQUARE D by Schneider Electric

Adjustable Molded Case Circuit Breakers

Adjustment is set at the front of the breaker.

MOTOR CIRCUIT PROTECTORS (MAG-GARD®)

- Magnetic trip only—provides no overload protection
- For supplementary protection within equipment
- Trip setting tolerances are ±20% of nominal values

Provide adjustable instantaneous trip when used in combination with motor starters with overload relays.



LAL 3-Pole

NQ/NF Panelboards

by Schneider Electric

- Complete panelboard requires interior, enclosure, and flush or surface cover
- NQ panelboards are for use with QO® (plug-in) or QOB (bolt-on) breakers; see page 192
- NF panelboards are for use with EDB (bolt-on) breakers; see page 192
- Tin-plated aluminum or silver-plated copper construction
- Use with ground bar kit No. 5B716 (not included)
- Use NQ adapter kits with Q and L frame breakers, available on Grainger.com®
- Use NF adapter kits with H and J frame breakers; see page 192

Preassembled main lugs save installation time. Convertible to main breaker. End-mounted split neutrals put neutral connections on the mains end of the panelboard, away from the high-density wiring area of the panel-side gutters. UL Listed.



Interior
No. 4HGX5



Enclosure
No. 1D687



Flush Cover
No. 3TX77

Amps	No. of Spaces	Rec. Enclosure	Rec. Flush Cover	Rec. Surface Cover	Mfr. Model	ALUMINUM BUS Item No.	COPPER BUS Item No.
Panelboard Interior, 1-Phase, 120/240VAC							
100	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	NQ18L1	**4HGW8**	**4HGW9**
100	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NQ30L1	**4HGX1**	**4HGX2**
225	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NQ30L2	**4HGX3**	**4HGX4**
225	42	6B429 for Main Lug 1D700 for Main Breaker	4HHA1 for Main Lug 3TX91 for Main Breaker	3TX84 for Main Lug 3TX92 for Main Breaker	NQ42L2	**4HGX5**	—
225	42	6B429 for Main Lug 1D700 for Main Breaker	4HHA1 for Main Lug 3TX91 for Main Breaker	3TX82	NQ42L2	—	**4HGX6**
400	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ30L4	**4HGX7**	**4HGX8**
400	42	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ42L4	**4HGX9**	**4HGY1**
600	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ30L6	—	**4HGY2**
600	42	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ42L6	—	**4HGY3**
Panelboard Interior, 3-Phase, 120/208 to 240VAC							
100	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	NQ418L1	**4HGY4**	**4HGY5**
100	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NQ430L1	**4HGY6**	**4HGY7**
225	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NQ430L2	**4HGY8**	**4HGY9**
225	42	6B429 for Main Lug 1D700 for Main Breaker	4HHA1 for Main Lug 3TX91 for Main Breaker	3TX84 for Main Lug 3TX92 for Main Breaker	NQ442L2	**4HGZ1**	**4HGZ2**
400	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ430L4	**4HGZ3**	**4HGZ4**
400	42	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ442L4	**4HGZ5**	**4HGZ6**
600	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ430L6	—	**4HGZ7**
600	42	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NQ442L6	—	**4HGZ8**
Panelboard Interior, 3-Phase, 277/480YVAC							
125	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	NF418L1	**3TZ01**	**3TZ02**
125	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NF430L1	**3TZ03**	**3TZ04**
250	30	6B429 for Main Lug 1D700 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	NF430L2	**3TZ05**	**3TZ06**
250	42	1D698 for Main Lug 22P067 for Main Breaker	4HHA1 for Main Lug 3TX91 for Main Breaker	3TX84 for Main Lug 3TX92 for Main Breaker	NF442L2	**3TZ08**	**3TZ09**
400	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NF430L4	**3TZ07**	**22P072**
400	42	22P067 for Main Lug 22P068 for Main Breaker	3TX91 for Main Lug 3TX96 for Main Breaker	3TX92 for Main Lug 3TX97 for Main Breaker	NF442L4	**22P074**	—
600	30	1D700 for Main Lug 12N640 for Main Breaker	4HHA2 for Main Lug 3TX94 for Main Breaker	3TX88 for Main Lug 12N641 for Main Breaker	NF430L6	—	**22P073**
600	42	22P067 for Main Lug 22P068 for Main Breaker	3TX91 for Main Lug 3TX96 for Main Breaker	3TX92 for Main Lug 3TX97 for Main Breaker	NF442L6	—	**22P075**

L	W	D (in.)	Mfr. Model	Item No.
Panelboard Enclosures, NEMA 1, Indoor				
26.00"	20.00"	5¾	MH26	**1D687**
32.00"	20.00"	5¾	MH32	**1D691**
38.00"	20.00"	5¾	MH38	**6B429**
44.00"	20.00"	5¾	MH44	**1D698**
50.00"	20.00"	5¾	MH50	**1D700**
56.00"	20.00"	5¾	MH56	**22P067**
62.00"	20.00"	5¾	MH62	**12N640**
68.00"	20.00"	5¾	MH68	**22P068**

Description	Mfr. Model	FLUSH Item No.	SURFACE Item No.
Covers			
Nonventilated, 26"H x 23"W x 5¾"D	NC26	**3TX77**	**3TX78**
Nonventilated, 32"H x 20"W x 5¾"D	NC32	**4HGZ9**	**3TX80**
Nonventilated, 38"H x 20"W x 5¾"D	NC38	**3TX81**	**3TX82**
Nonventilated, 44"H x 20"W x 5¾"D	NC44	**4HHA1**	**3TX84**
Ventilated, 50"H x 20"W x 5¾"D	NC50V	**4HHA2**	**3TX88**
Ventilated, 56"H x 20"W x 5¾"D	NC56V	**3TX91**	**3TX92**
Ventilated, 62"H x 20"W x 5¾"D	NC62V	**3TX94**	**12N641**
Ventilated, 68"H x 20"W x 5¾"D	NC68V	**3TX96**	**3TX97**

Description	Mfr. Model	Item No.
Accessories		
NQ Neutral Bar, Copper, 100A	NQN1CU	**4HHA6**
NQ Neutral Bar, Copper, 225A	NQN2CU	**4HHA7**
NQ Neutral Bar, Copper, 600A	NQN6CU	**4HHA8**
NF Neutral Bar, Copper, 125A	NFN1CU	**22P077**
NF Neutral Bar, Copper, 225A	NFN2CU	**22P078**
NF Neutral Bar, Copper, 600A	NFN6CU	**22P079**
Ground Bar Kit, 27-Terminal, Aluminum	PK27GTA	**5B716**
NQ Filler Plate, Pkg. of 15	NQFP15	**4HHA9**
NF Filler Plate, Pkg. of 15	NFFP15	**22P076**
NQ Main Circuit Breaker Adapter Kit, 250A, H and J Frame Breakers	NQMB2HJ	**4HHA3**
NQ Main Circuit Breaker Adapter Kit, 250A, Q Frame Breakers	NQMB2Q	**4HHA4**
NQ Main Circuit Breaker Adapter Kit, 400A, L Frame Breakers	NQMB4LA	**4HHA5**
NF Main Circuit Breaker Adapter Kit, 150A, H Frame Breakers	N150MH	**22P069**
NF Main Circuit Breaker Adapter Kit, 250A, J Frame Breakers	N250MJ	**22P070**
NF Main Circuit Breaker Adapter Kit, 400A, L Frame Breakers	N400M	**22P071**

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Max. Surge Current per Phase: 80kA Item No.	100kA Item No.	120kA Item No.	160kA Item No.	200kA Item No.	240kA Item No.
SPD Internal, For NQ Panelboards, Field Installable Using 12 Circuits In Panelboard												
120/240VAC High Leg Delta	3	H-G, H-L, H-N, L-G, L-L, L-N, N-G	150V AC	700V (N-G), 800V (L-G, L-N), 1000V (H-G), 1200V (H-N, L-L), 1500V (H-L)	20kA	SSP03BIA_PBQ1	**30FW76**	**30FW77**	**30FW78**	**30FW79**	**30FW80**	**30FW81**
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150V AC	600V (N-G), 700V (L-G, L-N), 1000V (L-L)	20kA	SSP02BIA_PBQ1	**30FW70**	**30FW71**	**30FW72**	**30FW73**	**30FW74**	**30FW75**
120/240VAC	1	L-G, L-L, L-N, N-G	150V AC	600V (N-G), 700V (L-G, L-N), 1000V (L-L)	20kA	SSP01BIA_PBQ1	**30FW64**	**30FW65**	**30FW66**	**30FW67**	**30FW68**	**30FW69**

HomeLine® Load Centers and Circuit Breakers

- 120/240VAC 1-phase
- 10K AIR with main lugs
- Split-branch neutral
- 3 ground bar-mounting locations
- UL Listed as HACR type

Amps	No. of Spaces	Max. No. of Tandem Breakers	Rec. Flush Cover	Rec. Surface Cover	Rec. Ground Bar Kit	NEMA 1 H	NEMA 1 W	NEMA 1 D	NEMA 1 Mfr. Model	NEMA 1 Item No.	NEMA 3R H	NEMA 3R W	NEMA 3R D	NEMA 3R Mfr. Model	NEMA 3R Item No.
Load Centers															
70	2	2	—	Included	5B717	9 19/64"	4 51/64"	3 1/4"	HOM24L70S	**1D512**	9 3/8"	4 1/8"	4"	HOM24L70RB	**1D511**
100	6	6	Included	—	1D374	12 3/16"	8 29/32"	4 1/4"	HOM612L100F	**1D519**	—	—	—	—	—
100	6	6	—	Included	1D374	12 3/16"	8 29/32"	4 1/4"	HOM612L100S	**1D521**	12 41/64"	8 29/32"	4 1/4"	HOM612L100RB	**1D520**

Amps	1-POLE Mfr. Model	1-POLE Item No.		2-POLE Mfr. Model	2-POLE Item No.
Miniature Circuit Breaker, Standard					
15	HOM115	**1D340**	*	HOM215	**1D350**
20	HOM120	**1D342**	*	HOM220	**1D352**
25	HOM125	**2KDF4**		HOM225	**5B684**
30	HOM130	**1D344**		HOM230	**1D354**
35	—	—		HOM235	**5B685**
40	HOM140	**1D345**		HOM240	**1D356**
45	—	—		HOM245	**5B686**
50	HOM150	**1D346**		HOM250	**1D358**
60	—	—		HOM260	**1D359**
70	—	—		HOM270	**1D360**
80	—	—		HOM280	**1D361**
90	—	—		HOM290	**1D362**
100	—	—		HOM2100	**1D349**
110	—	—		HOM2110	**2GNX8**
125	—	—		HOM2125	**5B681**
150	—	—		HOM2150	**5B682** ‡
200	—	—		HOM2200	**22P066** ‡

** UL Listed as SWD (switching duty) rated. † Combination arc fault interrupter senses both parallel and series arcing. ‡ Requires 4 spaces.*

Amps	1-POLE Mfr. Model	1-POLE Item No.		2-POLE Mfr. Model	2-POLE Item No.
Miniature Circuit Breaker, Arc Fault Circuit Interrupter					
15	HOM115AFI	**3XE15**		—	—
15	HOM115CAFI	**12R452**	†	—	—
20	HOM120AFI	**3XE16**		—	—
20	HOM120CAFI	**12R453**	†	—	—
Miniature Circuit Breaker, Ground Fault Circuit Interrupter (Class A - 5mA)					
15	HOM115GFI	**1D341**		HOM215GFI	**1D351**
20	HOM120GFI	**1D343**		HOM220GFI	**1D353**
25	—	—		HOM225GFI	**2GNY1**
30	—	—		HOM230GFI	**1D355**
40	—	—		HOM240GFI	**1D357**
50	—	—		HOM250GFI	**2GNY3**
Miniature Circuit Breaker, Tandem					
15	HOMT1515	**1D364**		—	—
15/20	HOMT1520	**5B709**		—	—
15/30	—	—		HOMT1515230	**5B708**
20	HOMT2020	**1D365**		HOMT2020220	**5B710**
20/30	—	—		HOMT2020230	**1D366**
Surge Protection Device					
5k	—	—		HOM2175SB	**3XB85**


NEMA 3R
No. 1D520


1-Pole Standard
No. 1D340


1-Pole GFCI
No. 1D341


Tandem
No. 5B710


No. 1D525


No. 1D374


No. 1D339


No. 1D249


No. 1D248


No. 5B777


No. 2DK43


No. 5B719


No. 1D373


No. 2DJ87


No. 2DH55


No. 2DM13

Load Center and Panelboard Accessories

UL Listed.

Description	Mfr. Model	Item No.
Circuit Breaker and Panelboard Locking Devices		
Handle Clamp, Clip for Fixing QO and QOU Breaker Handle in "ON" or "OFF" Position (1-, 2-, and 3-Pole)	HLO1	**1H235**
Handle Lockoff, Clip for Fixing QO Breaker Handle in "ON" or "OFF" Position (1-Pole)	QO1LO	**5B735**
Handle Padlock Attachment, Fixed, For 1-Pole QO Breakers in "ON" or "OFF" Position - Fixed	QO1PA	**1D249**
Handle Padlock Attachment, Fixed, For 2- and 3-Pole QO Breakers in "ON" or "OFF" Position - Fixed	QO1PL	**1D384**
Handle Padlock Attachment, For 1-Pole Side-by Side QOT Breakers in "ON" or "OFF" Position	QOTHPA	**1D338**
Handle Padlock Attachment, Loose, For 1-Pole QO Breakers in "ON" or "OFF" Position - Loose	QOHPL	**2DH09**
Handle Padlock Attachment, Loose, For 2- and 3-Pole QO Breakers in "ON" or "OFF" Position - Loose	QO1HPL	**1D248**
Interlock Attachment, For Use With Square D QO and QOB Miniature Circuit Breakers	QO2DTI	**2DH32**
Load Center Lock Kit, For Use With Square D QO and Homeline Load Centers	PK6FL	**1D373**
Panelboard Lock Kit, For Use With Square D NQOD Mono-Flat Fronts	PK4FL	**2DJ87**
Trim Clamps, For Use With Square D NQOD Panelboards	LP9501	**3KJ18**
Circuit Breaker and Panelboard Lugs		
Neutral Lug Kit, For Use With Homeline and QO Load Centers	LK70AN	**1D421**
Neutral Lug Kit, For Use With Homeline and QO Load Centers	LK100AN	**2DM13**
Circuit Breaker and Panelboard Mounting Accessories		
Mounting Base, 1-Pole, QO Plug In, 70 Amp	QOMB1	**2DH47**
Mounting Base, 2-Pole, QO Plug In, 70 Amp	QON24L70	**2DH55**
Mounting Base, 3-Pole, QOB Bolt On, 100 Amp	QON3B	**2DH58**
Retaining Kit - For QO612, L100 F/S, RB, DF/S, QO816L 100F/S, RB, DFS	PK2MB	**1D372**

Description	Mfr. Model	Item No.
Circuit Breaker Handle Ties		
Handle Tie, Converts Any 2 Adjacent 120/240VAC, Single-Pole QO Breakers to Independent Trip 2-Pole	QO1HT	**5B734**
Handle Tie, Converts Any 2 Adjacent 120/240VAC, Single-Pole Side-by-Side QOT Breakers to Independent Trip 2-Pole	QOTHT	**1D339**
Ground Bar Kits		
4-Terminal, for #14 to 4 Cu or #12 to 4 Al Wire	PK4GTA	**5B718**
7-Terminal, for #14 to 4 Cu or #12 to 4 Al Wire	PK7GTA	**1D374**
9-Terminal, Aluminum	PK9GTA	**1D375**
12-Terminal, Aluminum	PK12GTA	**5B711**
15-Terminal, Aluminum	PK15GTA	**1D369**
16-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK15GTAL	**5B713**
18-Terminal, Aluminum	PK18GTA	**1D370**
19-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK18GTAL	**5B714**
23-Terminal, Aluminum	PK23GTA	**1D371**
24-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK23GTAL	**5B715**
Insulator Kit, For Use With Square D PK9GTA thru PK27GTA Ground Kits	PKGTAB	**5B719**
Load Center and Panelboard Accessories		
Fusible Switch, For Use With QMB Panelboards	QMB364W	**2DK43**
Miniature Circuit Breakers		
70 Amps, For Use With QO Load Center, Homeline Load Center	QOM70VH	**5B777**
100 Amps, For Use With Square D 125 Amp Single Phase Convertible Load Centers (QOM1 Frame Size)	QOM100VH	**1D332**
125 Amps, For Use With QO Load Center, Homeline Load Center	QOM2125VH	**5B776**
125 Amps, For Use With QO Load Center, Homeline Load Center	QOM125VH	**5B774**
150 Amps, For Use With QO Load Center, Homeline Load Center	QOM2150VH	**1D333**
200 Amps, For Use With QO Load Center, Homeline Load Center	QOM2200VH	**1D334**
Panelboard Covers, Enclosures and Kits		
Filler Plate, For Use With Square D HOM Load Centers	HOMFP	**1D525**
Filler Plate, For Use With Square D NF Panelboards	EFP	**3TW52**
Filler Plate, For Use With Square D NQOD Lightning and Appliance Panelboards	QOFP	**1D443**
Filler Plate, For Use With Square D QO Load Centers	QOM1FP	**1D445**
Load Center Cover, For Use With Square D HOM Load Centers	HOMC30UFL	**6PHC8**
Spray Paints		
Gray Touch-Up Paint, 16-oz. Aerosol Can	PK49SP	**2CR83**



H-Frame
2-Pole



J-Frame
3-Pole

SQUARE D
by Schneider Electric

H- and J-Frame Circuit Breakers

- 600VAC, 250VDC max.
- Lug in/lug out
- Mounting height: 3.4"
- Box lug terminals

H-frame: 6.4"L; J-frame: 7.5"L. Accessories are available to customize H- and J-frame breakers for individual needs; call 1-800-GRAINGER (472-4643). On Grainger.com®, search by Grainger Item Number and click to "Optional Accessories."

Amps	Max. Wire Size	25kA IR @ 240V, 18.0kA IR @ 480V, 14kA IR @ 600V 2-Pole Mfr. Model	2-Pole Item No.	3-Pole Mfr. Model	3-Pole Item No.	65kA IR @ 240V, 35.0kA IR @ 480V, 18kA IR @ 600V 2-Pole Mfr. Model	2-Pole Item No.	3-Pole Mfr. Model	3-Pole Item No.
HDL/HGL Series, Replaces FAL Series									
15	3 AWG	HDL26015	**1MAJ5**	HDL36015	**1MAU2**	HGL26015	**1MAK8**	HGL36015	**1MAV7**
20	3 AWG	HDL26020	**1MAJ6**	HDL36020	**1MAU3**	HGL26020	**1MAK9**	HGL36020	**1MAV8**
25	3 AWG	HDL26025	**1MAJ7**	HDL36025	**1MAU4**	HGL26025	**1MAL1**	HGL36025	**1MAV9**
30	3 AWG	HDL26030	**1MAJ8**	HDL36030	**1MAU5**	HGL26030	**1MAL2**	HGL36030	**1MAW1**
35	3 AWG	—	—	HDL36035	**1MAU6**	—	—	HGL36035	**1MAW2**
40	3 AWG	HDL26040	**1MAJ9**	HDL36040	**1MAU7**	HGL26040	**1MAL3**	HGL36040	**1MAW3**
45	3 AWG	—	—	HDL36045	**1MAU8**	—	—	HGL36045	**1MAW4**
50	3 AWG	HDL26050	**1MAK1**	HDL36050	**1MAU9**	HGL26050	**1MAL4**	HGL36050	**1MAW5**
60	3 AWG	HDL26060	**1MAK2**	HDL36060	**1MAJ4**	HGL26060	**1MAL5**	HGL36060	**1MAW6**
70	3 AWG	HDL26070	**1MAK3**	HDL36070	**1MAV1**	HGL26070	**1MAL6**	HGL36070	**1MAW7**
80	3 AWG	HDL26080	**1MAK4**	HDL36080	**1MAV2**	HGL26080	**1MAL7**	HGL36080	**1MAW8**
90	3 AWG	—	—	HDL36090	**1MAV3**	HGL26090	**2JWN5**	HGL36090	**1MAW9**
100	3 AWG	HDL26100	**1MAK5**	HDL36100	**1MAV4**	HGL26100	**1MAL8**	HGL36100	**1MAX1**
125	3 AWG	HDL26125	**1MAK6**	HDL36125	**1MAV5**	HGL26125	**1MAL9**	HGL36125	**1MAX2**
150	3 AWG	HDL26150	**1MAK7**	HDL36150	**1MAV6**	HGL26150	**1MAU1**	HGL36150	**1MAX3**
JDL/JGL Series, Replaces KAL Series									
150	4/0 AWG	JDL26150	**1MAX4**	—	—	—	—	—	—
150	4 AWG	—	—	JDL36150	**1MAZ5**	JGL26150	**1MAX9**	JGL36150	**1MBB1**
175	4/0 AWG	JDL26175	**1MAX5**	—	—	—	—	—	—
175	4 AWG	—	—	JDL36175	**1MAZ6**	JGL26175	**1MAZ1**	JGL36175	**1MBB2**
200	300 MCM	JDL26200	**1MAX6**	—	—	—	—	—	—
200	350 MCM	—	—	JDL36200	**1MAZ7**	JGL26200	**1MAZ2**	JGL36200	**1MBB3**
225	300 MCM	JDL26225	**1MAX7**	—	—	—	—	—	—
225	350 MCM	—	—	JDL36225	**1MAZ8**	JGL26225	**1MAZ3**	JGL36225	**1MBB4**
250	300 MCM	JDL26250	**1MAX8**	—	—	—	—	—	—
250	350 MCM	—	—	JDL36250	**1MAZ9**	JGL26250	**1MAZ4**	JGL36250	**1MBB5**



1-Pole QOU

SQUARE D
by Schneider Electric

QOU, QDL, and QBL Circuit Breakers

QOU

- UL Listed as HACR type (except 10A)
- 48VDC rated at 5K AIR

Reversible line and load lugs for flush- or surface-mount wiring on 10 to 70A units. 35mm DIN/EN 50022 mountable. 4.05"L (4.45"L on 80 to 125A) x 0.75"W per pole x 2.98"D.

QDL

250A Q-frame. 2-pole models are 6.47"L x 3"W x 3.93"D; 3-pole models are 6.47"L x 4.5"W x 3.93"D.

QBL

- AC magnetic trip setting: hold 1400A; trip 2400A

250A Q-frame. 2-pole models are 6.44"L x 3"W x 3.16"D; 3-pole models are 6.44"L x 4.5"W x 3.16"D.

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
QOU Series, Standard, 240V Max., 10kA at 120/240V AC IR				
10	2 AWG	**5B966**	**5B982**	**5B996**
15	2 AWG	**5B968**	**5B984**	**5B998**
20	2 AWG	**5B970**	**5B985**	**5B999**
25	2 AWG	**5B972**	**5B986**	**5U993**
30	2 AWG	**5B973**	**5B987**	**5U994**
35	2 AWG	**5B974**	**5B988**	**5U995**
40	2 AWG	**5B975**	**5B989**	**5U996**
45	2 AWG	**2JXP7**	**5B990**	**5U997**
50	2 AWG	**5B977**	**5B991**	**5U998**
60	2 AWG	**5B978**	**5B992**	**5U999**
70	2 AWG	**5B979**	—	—
70	2/0 AWG	—	**5B993**	**6B008**
80	2/0 AWG	**2JWX2**	**5B994**	**6B009**
90	2/0 AWG	**2JWX8**	**2JXK4**	**6B010**
100	2/0 AWG	**5B967**	**5B983**	**5B997**
125	2/0 AWG	—	**2JWZ3**	—
QOU Series, High Magnetic, 240V Max., 10kA at 120/240V AC IR				
15	2 AWG	**5B969**	—	—
20	2 AWG	**5B971**	—	—
QOU Series, VH (High Interrupting Capacity), 240V Max., 22kA at 120/240V AC IR				
15	2 AWG	**2JWJ4**	**2JXA6**	—
20	2 AWG	**2JWK3**	**2JXC7**	—
25	2 AWG	**2JWL2**	**2JXD8**	—
30	2 AWG	**2JWN1**	**2JXE9**	—
40	2 AWG	—	**2JXG1**	—
50	2 AWG	**2JWR2**	**2JXH1**	—
60	2 AWG	**2JWT2**	**2JXH9**	—
QOU Series, VH (High Interrupting Capacity), 240V Max., 22kA at 240V AC IR				
15	2 AWG	—	—	**2JXL4**
20	2 AWG	—	—	**2JXN1**
25	2 AWG	—	—	**2JXN7**
30	2 AWG	—	—	**2JXP4**
QOU Series, Shunt Trip, Type 1021 (120VAC Control), Normally Open, 240V Max., 10kA at 120/240V AC IR				
10	2 AWG	**2JWH9**	**2JWY6**	—
15	2 AWG	**2JWJ8**	**2JXC2**	**2JXL7**
20	2 AWG	**2JWK7**	**2JXD3**	**2JXN4**

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
25	2 AWG	—	**2JXE4**	**2JXP1**
30	2 AWG	**2JWN6**	**2JXF5**	**2KDE8**
40	2 AWG	**2JWP6**	**2JXG6**	**2KDE9**
50	2 AWG	**2JWR7**	**2JXH5**	**2JXR1**
60	2 AWG	**2JWT8**	**2JXJ4**	**2JXR4**
70	2/0 AWG	—	**2JXJ7**	**2JXR7**
80	2/0 AWG	—	**2JXK1**	**2JXT1**
90	2/0 AWG	—	**2JXK7**	**2JXT4**
100	2/0 AWG	—	—	**2JXL1**
125	2/0 AWG	—	**2JWZ9**	—
QDL Series, Standard, 240V Max., 25kA at 240V AC IR				
70	300 MCM	—	**2JWR9**	**2JXC8**
80	300 MCM	—	**2JWT5**	**2JXD4**
90	300 MCM	—	**2JWU1**	**2JXD9**
100	300 MCM	—	**2JWU7**	**2JXE5**
110	300 MCM	—	**2JWX4**	**2JXF1**
125	300 MCM	—	**2JWY1**	**2JXF6**
150	300 MCM	—	**2JWY7**	**2JXG2**
175	300 MCM	—	**2JWZ4**	**2JXG7**
200	300 MCM	—	**2JXA1**	**2JXH2**
225	300 MCM	—	**2JXA7**	**2JXH6**
250	300 MCM	—	**2JXC3**	**2JXJ1**
QBL Series, Standard, 240V Max., 10kA at 240V AC IR				
125	300 MCM	—	**3XB95**	**3XE10**
150	300 MCM	—	**3XB96**	**3XE11**
175	300 MCM	—	**3XB97**	**3XE12**
200	300 MCM	—	**3XB98**	**3XE13**
225	300 MCM	—	**3XB99**	**3XE14**

Description	Mfr. Model	Item No.
Square D QOU Circuit Breaker Circuit Breaker Accessories (10 to 100A Only)		
Jumper Bar Base, 100A, 1-Phase, 4-Pole Right-Side Wiring	QOU14100JBAR	**2DH72**
2-Pole Mounting Foot	QOUMF2B	**2DN37**
3-Pole Mounting Foot	QOUMF3	**2DN38**
Enclosures for 2 or 3 Pole, 100 to 225A QBL and DQL Breakers		
Indoor, NEMA 1, Surface Mount	Q23225NS	**4B257**
Indoor, NEMA 1, Flush Mount	Q23225NF	**2JXF8**
Outdoor, NEMA 3R, Surface Mount	Q23225NRB	**4B256**



1-Pole Standard

SQUARE D
by Schneider Electric

EDB (Bolt-On) Circuit Breakers

- UL Listed as HACR type
- 480/277VAC

Used with NF panelboards.

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Standard, 18kA at 120/240V AC IR				
15	6 AWG	**3TW12**	—	—
20	6 AWG	**3TW13**	—	—
25	6 AWG	**2JWD1**	—	—
30	6 AWG	**3TW15**	—	—
35	2 AWG	**2JWK8**	—	—
40	2 AWG	**3TW17**	—	—
45	2 AWG	**2JWL3**	—	—
50	2 AWG	**2JWE4**	—	—
60	2 AWG	**3TW20**	—	—
70	2 AWG	**2JWF2**	—	—
Standard, 18kA at 277/480V AC IR				
15	6 AWG	—	**3TW22**	**3TW37**
20	6 AWG	—	**3TW23**	**3TW38**
25	6 AWG	—	**2JWG2**	**3TW39**
30	6 AWG	—	**3TW25**	**3TW40**
35	2 AWG	—	**2JWL7**	**3TW41**
40	2 AWG	—	**3TW27**	**3TW42**
45	2 AWG	—	**2KDF5**	**3TW43**
50	2 AWG	—	**3TW29**	**3TW44**
60	2 AWG	—	**3TW30**	**3TW45**
70	2 AWG	—	**3TW31**	**3TW46**
80	2 AWG	—	**3TW32**	**3TW47**
90	2 AWG	—	**2JWJ5**	**3TW48**
100	2 AWG	—	**3TW34**	**3TW49**
110	2 AWG	—	**3TW35**	**3TW50**
125	2 AWG	—	**2JWK4**	**3TW51**

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
EPD (Equipment Protection Device), 30mA Trip, 18kA at 120/240V AC IR				
15	6 AWG (Cu), 4 AWG (Al)	**2JWC2**	—	—
20	6 AWG (Cu), 4 AWG (Al)	**2JWC6**	—	—
30	6 AWG (Cu), 4 AWG (Al)	**2JWD5**	—	—
40	6 AWG (Cu), 4 AWG (Al)	**2JWD9**	—	—
50	4 AWG (Al), 2 AWG (Cu)	**2JWE6**	—	—
Shunt Trip, Type 1021 (120VAC Control), Normally Open, 18kA at 120/240V AC IR				
15	6 AWG	**2JWC4**	—	—
20	6 AWG	**2JWC8**	—	—
25	6 AWG	**2JWD3**	—	—
30	6 AWG	**2JWD7**	—	—
40	2 AWG	**2JWE2**	—	—
Shunt Trip, Type 1021 (120VAC Control), Normally Open, 18kA at 277/480V AC IR				
15	6 AWG	—	**2JWF8**	**2JWN7**
20	6 AWG	—	**2JWN2**	**2JWP3**
25	6 AWG	—	—	**2JWP7**
30	6 AWG	—	**2JWG5**	**2JWR3**
40	2 AWG	—	**2JWG8**	**2JWR8**
50	2 AWG	—	**2JWH2**	**2JWT3**
60	2 AWG	—	—	**2JWT9**
70	2 AWG	**2JWF5**	**2JWH6**	**2JWU6**
80	2 AWG	—	**2JWJ1**	**2JWX3**
90	2 AWG	—	**2JWJ9**	**2JWX9**
100	2 AWG	—	—	**2JWY5**

Amps	Curve Type	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.	4-POLE Item No.
A-Curve, UL1077 DIN Rail-Mount Supplementary Protectors							
0.5 A	A	Siemens	5SY4	**30XT80**	—	—	—
1 A	A	Siemens	5SY4	**30XU27**	**30XU74**	**30XV23**	**30XV74**
1.6 A	A	Siemens	5SY4	**30XT82**	**30XU94**	**30XV45**	**30XW06**
2 A	A	Siemens	5SY4	**30XU43**	**30XU77**	**30XV25**	**30XV77**
3 A	A	Siemens	5SY4	**30XU52**	**30XU79**	**30XV28**	**30XV80**
4 A	A	Siemens	5SY4	**30XU60**	**30XU81**	**30XV29**	**30XV83**
6 A	A	Siemens	5SY4	**30XU73**	**30XU85**	**30XV32**	**30XV88**
8 A	A	Siemens	5SY4	**30XZ35**	**30XU87**	**30XV34**	**30XV92**
10 A	A	Siemens	5SY4	**30XT85**	**30XU26**	**30XV36**	**30XV95**
13 A	A	Siemens	5SY4	**30XU05**	**30XU89**	**30XV39**	**30XV99**
16 A	A	Siemens	5SY4	**30XU16**	**30XU97**	**30XV47**	**30XW09**
20 A	A	Siemens	5SY4	**30XU30**	**30XV01**	**30XV52**	**30XW13**
32 A	A	Siemens	5SY4	**30XU47**	**30XV07**	**30XV58**	**30XW21**
50 A	A	Siemens	5SY4	**30XU63**	**30XV15**	**30XV65**	**30XW29**
63 A	A	Siemens	5SY4	**30XU69**	**30XV19**	**30XV70**	**30XW33**
25 A	A	Siemens	5SY4	—	**30XV03**	**30XU36**	**30XW17**
40 A	A	Siemens	5SY4	—	**30XV11**	**30XV61**	**30XW25**

Amps	Schneider Electric Series	Schneider Electric Item No.	Eaton Series	Eaton Item No.	Siemens Series	Siemens Item No.
B-Curve, 1-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.5 A	C60SP	**482K44**	—	—	—	—
1 A	C60SP	**482K27**	FAZ	**19YE45**	—	—
2 A	C60SP	**482K28**	FAZ	**19YE46**	5SY6	**30XZ11**
3 A	C60SP	**482K29**	FAZ	**19YE47**	—	—
4 A	C60SP	**482K30**	FAZ	**19YE48**	5SY6	**30XX91**
5 A	C60SP	**482K31**	FAZ	**19YE49**	—	—
6 A	C60SP	**482K32**	FAZ	**19YE50**	5SY6	**30XX78**
6 A	—	—	—	—	5SY4	**30XX81**
8 A	C60SP	**482K33**	FAZ	**19YE51**	—	—
10 A	C60SP	**482K34**	FAZ	**19YE52**	5SY4	**30XU01**
10 A	—	—	—	—	5SY6	**30XX94**
13 A	C60SP	**482K35**	FAZ	**19YE53**	5SY4	**30XU09**
13 A	—	—	—	—	5SY6	**30XZ12**
15 A	—	—	FAZ	**19YE54**	—	—
16 A	C60SP	**482K36**	FAZ	**19YE55**	5SY4	**30XU17**
16 A	—	—	—	—	5SY6	**30XX92**
20 A	C60SP	**482K37**	FAZ	**19YE56**	5SY4	**30XU32**
20 A	—	—	—	—	5SY6	**30XY09**
25 A	C60SP	**482K38**	FAZ	**19YE57**	5SY4	**30XU40**
25 A	—	—	—	—	5SY6	**30XZ15**
32 A	C60SP	**482K39**	FAZ	**19YE58**	5SY4	**30XU48**
32 A	—	—	—	—	5SY6	**30XZ16**
40 A	C60SP	**482K40**	FAZ	**19YE59**	5SY4	**30XU56**
40 A	—	—	—	—	5SY6	**30XY10**
45 A	C60SP	**482K41**	—	—	—	—
50 A	C60SP	**482K42**	—	—	5SY4	**30XU64**
50 A	—	—	—	—	5SY6	**30XZ17**
63 A	C60SP	**482K43**	—	—	5SY4	**30XU70**
63 A	—	—	—	—	5SY6	**30XY11**
63 A	—	—	—	—	5SY6	**30XZ18**
B-Curve, 2-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
1 A	C60SP	**482K45**	FAZ	**19YF10**	—	—
2 A	C60SP	**482K46**	FAZ	**19YF11**	—	—
3 A	C60SP	**482K47**	FAZ	**19YF12**	—	—
4 A	C60SP	**482K48**	FAZ	**19YF13**	—	—
5 A	C60SP	**482K49**	FAZ	**19YF14**	—	—
6 A	C60SP	**482K50**	FAZ	**19YF15**	5SY4	**30XU86**
8 A	C60SP	**482K51**	FAZ	**19YF16**	—	—
10 A	C60SP	**482K52**	FAZ	**19YF17**	5SY4	**30XU88**
13 A	C60SP	**482K53**	FAZ	**19YF18**	5SY4	**30XU90**
15 A	—	—	FAZ	**19YF19**	—	—
16 A	C60SP	**482K54**	FAZ	**19YF20**	5SY4	**30XU98**
20 A	C60SP	**482K55**	FAZ	**19YF21**	5SY4	**30XV02**
25 A	C60SP	**482K56**	FAZ	**19YF22**	5SY4	**30XV04**
32 A	C60SP	**482K57**	FAZ	**19YF23**	5SY4	**30XV08**
40 A	C60SP	**482K58**	—	—	5SY4	**30XV12**
45 A	C60SP	**482K59**	—	—	—	—
50 A	C60SP	**482K60**	—	—	5SY4	**30XV16**
63 A	C60SP	**482K61**	—	—	5SY4	**30XV20**
B-Curve, 3-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
2 A	C60SP	**482K62**	—	—	—	—
6 A	C60SP	**482K63**	—	—	—	—
8 A	C60SP	**482K64**	—	—	—	—
10 A	C60SP	**482K65**	—	—	—	—
13 A	C60SP	**482K66**	—	—	—	—
16 A	C60SP	**482K67**	—	—	—	—
20 A	C60SP	**482K68**	—	—	—	—
25 A	C60SP	**482K69**	—	—	—	—
32 A	C60SP	**482K70**	—	—	—	—
40 A	C60SP	**482K71**	—	—	—	—
45 A	C60SP	**482K72**	—	—	—	—
50 A	C60SP	**482K73**	—	—	—	—
63 A	C60SP	**482K74**	—	—	—	—
B-Curve, 4-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
2 A	C60SP	**482K75**	—	—	—	—
6 A	C60SP	**482K76**	—	—	5SY4	**30XV89**
8 A	C60SP	**482K77**	—	—	—	—
10 A	C60SP	**482K78**	—	—	5SY4	**30XV96**
13 A	C60SP	**482K79**	—	—	5SY4	**30XW01**
16 A	C60SP	**482K80**	—	—	5SY4	**30XW10**
20 A	C60SP	**482K81**	—	—	5SY4	**30XW14**
25 A	C60SP	**482K82**	—	—	5SY4	**30XW18**
32 A	C60SP	**482K83**	—	—	5SY4	**30XW22**
40 A	C60SP	**482K84**	—	—	5SY4	**30XW26**

SIEMENS EATON BUSSMANN SERIES Schneider Electric

UL 1077 Circuit Protectors

- B curve = magnetic trip between 3.2 and 4.8 times rated current (computer, electronic, and generator applications)
- C curve = magnetic trip between 7 and 10 times rated current (general purpose applications)
- D curve = magnetic trip between 10 and 14 times rated current (motors, transformers, and similar applications)

UL1077 listed supplementary protectors are used as extra protection for devices with branch circuit protection that is not sensitive enough for downstream components or where branch protection isn't required. They open the circuit upon overload or in the event of a short circuit to protect equipment from damage. They mount on standard 35mm DIN rail to protect sensitive equipment, like luminaires, appliances, control circuits, control power transformers, and other electrical equipment.



No. 19YE45

Amps	Schneider Electric Series	Schneider Electric Item No.	Eaton Series	Eaton Item No.	Siemens Series	Siemens Item No.
45 A	C60SP	**482K85**	—	—	—	—
50 A	C60SP	**482K86**	—	—	5SY4	**30XW30**
63 A	C60SP	**482K87**	—	—	5SY4	**30XW34**
C-Curve, 1-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	**30XT77**
0.3 A	—	—	—	—	5SY6	**30XZ13**
0.5 A	—	—	—	—	5SY4	**30XT79**
0.5 A	—	—	—	—	5SY6	**30XX83**
1 A	C60SP	**482K88**	FAZ	**19YE60**	5SY4	**30XU28**
1 A	—	—	—	—	5SY6	**30XX54**
1.6 A	—	—	—	—	5SY4	**30XT83**
1.6 A	—	—	—	—	5SY6	**30XZ14**
2 A	C60SP	**482K89**	FAZ	**19YE61**	5SY4	**30XU44**
2 A	—	—	—	—	5SY6	**30XX55**
3 A	C60SP	**482K90**	FAZ	**19YE62**	5SY4	**30XU53**
3 A	—	—	—	—	5SY6	**30XX56**
4 A	C60SP	**482K91**	FAZ	**19YE63**	5SY4	**30XU61**
4 A	—	—	—	—	5SY6	**30XZ26**
5 A	C60SP	**482K92**	FAZ	**19YE64**	5SY4	**30XU67**
6 A	C60SP	**482K93**	FAZ	**19YE65**	5SY6	**30XX57**
6 A	—	—	—	—	5SY4	**30XZ28**
8 A	C60SP	**482K94**	FAZ	**19YE66**	5SY6	**30XX58**
8 A	—	—	—	—	5SY4	**30XZ42**
10 A	C60SP	**482K95**	FAZ	**19YE67**	5SY4	**30XU03**
10 A	—	—	—	—	5SY6	**30XZ27**
13 A	C60SP	**482K96**	FAZ	**19YE68**	5SY4	**30XU10**
13 A	—	—	—	—	5SY6	**30XX59**
15 A	—	—	FAZ	**19YE69**	5SY4	**30XU15**
16 A	C60SP	**482K97**	FAZ	**19YE70**	5SY4	**30XU18**
16 A	—	—	—	—	5SY6	**30XX60**
20 A	C60SP	**482K98**	FAZ	**19YE71**	5SY4	**30XU37**
20 A	—	—	—	—	5SY6	**30XX61**
25 A	C60SP	**482K99**	FAZ	**19YE72**	5SY4	**30XU41**
25 A	—	—	—	—	5SY6	**30XX62**
30 A	—	—	—	—	5SY4	**30XU46**
32 A	C60SP	**482L01**	FAZ	**19YE73**	5SY4	**30XU49**
32 A	—	—	—	—	5SY6	**30XX63**
35 A	—	—	—	—	5SY4	**30XU51**
40 A	C60SP	**482L02**	FAZ	**19YE74**	5SY4	**30XU57**
40 A	—	—	—	—	5SY6	**30XX64**
45 A	C60SP	**482L03**	—	—	5SY4	**30XU59**
50 A	C60SP	**482L04**	FAZ	**19YE75**	5SY4	**30XU65**
50 A	—	—	—	—	5SY6	**30XX99**
60 A	—	—	—	—	5SY4	**30XU68**
63 A	C60SP	**482L05**	FAZ	**19YE76**	5SY4	**30XU71**
63 A	—	—	—	—	5SY6	**30XX65**
80 A	—	—	—	—	5SY4	**30XZ33**
C-Curve, 2-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY6	**30XY20**
1 A	C60SP	**482L07**	FAZ	**19YE92**	5SY6	**30XX66**
1.6 A	—	—	—	—	5SY6	**30XY21**
2 A	C60SP	**482L08**	FAZ	**19YE93**	5SY6	**30XX67**
3 A	C60SP	**482L09**	FAZ	**19YE94**	5SY6	**30XY12**

CONTINUED

CONTINUED

UL 1077 Circuit Protectors

SIEMENS · EATON BUSSMANN SERIES · Schneider Electric

Amps	Schneider Electric Series	Schneider Electric Item No.	Eaton Series	Eaton Item No.	Siemens Series	Siemens Item No.
4 A	C60SP	482L10	FAZ	19YE95	5SY6	30XZ32
5 A	C60SP	482L11	FAZ	19YE96	5SY6	30XX68
6 A	C60SP	482L12	FAZ	19YE97	5SY6	30XX69
8 A	C60SP	482L13	FAZ	19YE98	5SY6	30XY17
10 A	C60SP	482L14	FAZ	19YE99	5SY6	30XX70
13 A	—	—	FAZ	19YF01	5SY6	30XX71
15 A	—	—	FAZ	19YF02	—	—
16 A	C60SP	482L16	FAZ	19YF03	5SY6	30XZ22
20 A	C60SP	482L17	FAZ	19YF04	5SY6	30XZ31
25 A	C60SP	482L18	FAZ	19YF05	5SY6	30XX96
30 A	—	—	—	—	5SY4	30XV06
32 A	C60SP	482L19	FAZ	19YF06	5SY6	30XY03
35 A	—	—	—	—	5SY4	30XV10
40 A	C60SP	482L20	FAZ	19YF07	5SY6	30XX90
45 A	C60SP	482L21	—	—	5SY4	30XV14
50 A	C60SP	482L22	FAZ	19YF08	5SY6	30XY14
63 A	C60SP	482L23	FAZ	19YF09	5SY6	30XY15
C-Curve, 3-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	30XV43
0.5 A	—	—	—	—	5SY4	30XV31
1 A	—	—	FAZ	19YF41	5SY4	30XV24
1.6 A	—	—	—	—	5SY4	30XV46
2 A	C60SP	482L24	FAZ	19YF42	5SY4	30XV26
3 A	—	—	FAZ	19YF43	5SY4	30XU22
4 A	—	—	FAZ	19YF44	5SY4	30XV30
5 A	—	—	FAZ	19YF45	5SY4	30XV38
6 A	C60SP	482L25	FAZ	19YF46	5SY4	30XZ23
8 A	C60SP	482L26	FAZ	19YF47	5SY4	30XV35
10 A	C60SP	482L27	FAZ	19YF48	5SY4	30XU07
13 A	C60SP	482L28	FAZ	19YF49	5SY4	30XV41
15 A	—	—	FAZ	19YF50	5SY4	30XV51
16 A	C60SP	482L29	FAZ	19YF51	5SY4	30XV49
20 A	C60SP	482L30	FAZ	19YF52	5SY4	30XU06
20 A	—	—	—	—	5SY6	30XX98
25 A	C60SP	482L31	FAZ	19YF53	5SY4	30XU14
30 A	—	—	—	—	5SY4	30XV57
32 A	C60SP	482L32	FAZ	19YF54	5SY4	30XU08
35 A	—	—	—	—	5SY4	30XV60
40 A	C60SP	482L33	FAZ	19YF55	5SY4	30XV63
45 A	C60SP	482L34	—	—	5SY4	30XV64
50 A	C60SP	482L35	FAZ	19YF56	5SY4	30XV67
60 A	—	—	—	—	5SY4	30XV69
63 A	C60SP	482L36	FAZ	19YF57	5SY4	30XV72
80 A	—	—	—	—	5SY4	30XZ20
C-Curve, 4-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
2 A	C60SP	482L37	—	—	—	—
6 A	C60SP	482L38	—	—	—	—
8 A	C60SP	482L39	—	—	—	—
10 A	C60SP	482L40	—	—	—	—
13 A	C60SP	482L41	—	—	—	—
16 A	C60SP	482L42	—	—	—	—
20 A	C60SP	482L43	—	—	—	—
25 A	C60SP	482L44	—	—	—	—
32 A	C60SP	482L45	—	—	—	—
40 A	C60SP	482L46	—	—	—	—
45 A	C60SP	482L47	—	—	—	—
50 A	C60SP	482L48	—	—	—	—
63 A	C60SP	482L49	—	—	—	—
D-Curve, 1-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	30XT78
0.5 A	C60SP	482L67	—	—	5SY4	30XT81
1 A	C60SP	482L50	FAZ	19YE77	5SY4	30XU29
1.6 A	—	—	—	—	5SY4	30XT84
2 A	C60SP	482L51	FAZ	19YE78	5SY4	30XU45
3 A	C60SP	482L52	FAZ	19YE79	5SY4	30XU54
4 A	C60SP	482L53	FAZ	19YE80	5SY4	30XU62
5 A	C60SP	482L54	FAZ	19YE81	—	—
6 A	C60SP	482L55	FAZ	19YE82	5SY4	30XZ30
8 A	C60SP	482L56	FAZ	19YE83	5SY4	30XZ43
10 A	C60SP	482L57	FAZ	19YE84	5SY4	30XU04
13 A	C60SP	482L58	FAZ	19YE85	5SY4	30XU11
15 A	—	—	FAZ	19YE86	—	—

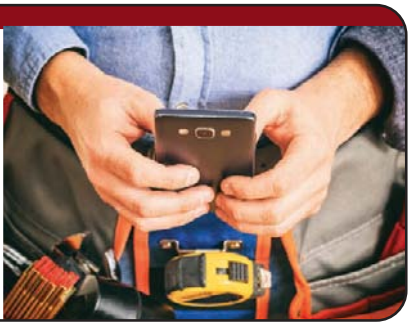
Amps	Schneider Electric Series	Schneider Electric Item No.	Eaton Series	Eaton Item No.	Siemens Series	Siemens Item No.
16 A	C60SP	482L59	FAZ	19YE87	5SY4	30XU25
20 A	C60SP	482L60	FAZ	19YE88	5SY4	30XU38
25 A	C60SP	482L61	FAZ	19YE89	5SY4	30XU42
32 A	C60SP	482L62	FAZ	19YE90	5SY4	30XU50
40 A	C60SP	482L63	FAZ	19YE91	5SY4	30XU58
45 A	C60SP	482L64	—	—	—	—
50 A	C60SP	482L65	—	—	5SY4	30XU66
63 A	C60SP	482L66	—	—	—	—
D-Curve, 2-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	30XU93
0.5 A	—	—	—	—	5SY4	30XU84
1 A	C60SP	482L68	FAZ	19YF24	5SY4	30XU76
1.6 A	—	—	—	—	5SY4	30XU96
2 A	C60SP	482L69	FAZ	19YF25	5SY4	30XU78
3 A	C60SP	482L70	FAZ	19YF26	5SY4	30XU80
4 A	C60SP	482L71	FAZ	19YF27	5SY4	30XU82
5 A	C60SP	482L72	FAZ	19YF28	—	—
6 A	C60SP	482L73	FAZ	19YF29	5SY4	30XU31
8 A	C60SP	482L74	FAZ	19YF30	5SY4	30XU13
10 A	C60SP	482L75	FAZ	19YF31	5SY4	30XU33
13 A	C60SP	482L76	FAZ	19YF32	5SY4	30XU92
15 A	—	—	FAZ	19YF33	—	—
16 A	C60SP	482L77	FAZ	19YF34	5SY4	30XU99
20 A	C60SP	482L78	FAZ	19YF35	5SY4	30XU34
25 A	C60SP	482L79	FAZ	19YF36	5SY4	30XV05
32 A	C60SP	482L80	FAZ	19YF37	5SY4	30XV09
40 A	C60SP	482L81	FAZ	19YF38	5SY4	30XV13
45 A	C60SP	482L82	—	—	—	—
50 A	C60SP	482L83	FAZ	19YF39	5SY4	30XV17
63 A	C60SP	482L84	FAZ	19YF40	5SY4	30XV22
D-Curve, 3-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	30XV44
0.5 A	—	—	—	—	5SY4	30XT87
1 A	—	—	FAZ	19YF58	5SY4	30XT86
1.6 A	—	—	—	—	5SY4	30XT98
2 A	C60SP	482L85	FAZ	19YF59	5SY4	30XV27
3 A	—	—	FAZ	19YF60	5SY4	30XT91
4 A	—	—	FAZ	19YF61	5SY4	30XT96
5 A	—	—	FAZ	19YF62	—	—
6 A	C60SP	482L86	FAZ	19YF63	5SY4	30XT92
8 A	C60SP	482L87	FAZ	19YF64	5SY4	30XT88
10 A	C60SP	482L88	FAZ	19YF65	5SY4	30XU02
13 A	C60SP	482L89	FAZ	19YF66	5SY4	30XV42
15 A	—	—	FAZ	19YF67	—	—
16 A	C60SP	482L90	FAZ	19YF68	5SY4	30XV50
20 A	C60SP	482L91	FAZ	19YF69	5SY4	30XV54
25 A	C60SP	482L92	FAZ	19YF70	5SY4	30XV56
32 A	C60SP	482L93	FAZ	19YF71	5SY4	30XZ21
40 A	C60SP	482L94	FAZ	19YF72	5SY4	30XT95
45 A	C60SP	482L95	—	—	—	—
50 A	C60SP	482L96	FAZ	19YF73	5SY4	30XV68
63 A	C60SP	482L97	FAZ	19YF74	5SY4	30XV73
D-Curve, 4-Pole UL1077 DIN Rail-Mount Supplementary Protectors						
0.3 A	—	—	—	—	5SY4	30XW05
0.5 A	—	—	—	—	5SY4	30XV87
1 A	—	—	—	—	5SY4	30XV76
1.6 A	—	—	—	—	5SY4	30XW08
2 A	C60SP	482L98	—	—	5SY4	30XV79
3 A	—	—	—	—	5SY4	30XV82
4 A	—	—	—	—	5SY4	30XV85
6 A	C60SP	482L99	—	—	5SY4	30XV91
8 A	C60SP	482M01	—	—	5SY4	30XV94
10 A	C60SP	482M02	—	—	5SY4	30XV98
13 A	C60SP	482M03	—	—	5SY4	30XW03
16 A	C60SP	482M04	—	—	5SY4	30XW12
20 A	C60SP	482M05	—	—	5SY4	30XW16
25 A	C60SP	482M06	—	—	5SY4	30XW20
32 A	C60SP	482M07	—	—	5SY4	30XW24
40 A	C60SP	482M08	—	—	5SY4	30XW28
45 A	C60SP	482M09	—	—	—	—
50 A	C60SP	482M10	—	—	5SY4	30XW32
63 A	C60SP	482M11	—	—	5SY4	30XW36

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



SIEMENS EATON BUSSMANN SERIES Schneider Electric

UL 489 Circuit Protectors

- C curve = magnetic trip between 7 and 10 times rated current (general purpose applications)
- D curve = magnetic trip between 10 and 14 times rated current (motors, transformers, and similar applications)

These miniature circuit breakers are UL489 listed for use as branch circuit protection or as supplementary electrical protection. Also known as branch circuit overcurrent devices, they open the circuit upon overload or in the event of a short circuit to protect equipment from damage. Mount these circuit breakers on standard 35mm DIN rail in control panels, motor control centers, panelboards, and other low-voltage electrical applications.



No. 30YA79

				2-POLE					
	Siemens			Eaton			Schneider Electric		
Amps	Series	DC Volt Rating	Item No.	Series	DC Volt Rating	Item No.	Series	DC Volt Rating	Item No.
C-Curve, 2-Pole UL489 DIN Rail-Mount Miniature Circuit Breakers									
0.03 A	5SJ4	125V DC	**30YC78**	—	—	—	—	—	—
0.5 A	5SJ4	60V DC	**30YA79**	—	—	—	—	—	—
0.5 A	5SJ4	125V DC	**30YC74**	—	—	—	—	—	—
1 A	5SJ4	60V DC	**30YA75**	FAZ-NA	48V DC	**19YG18**	C60BP	Not Rated	**482M30**
1 A	5SJ4	125V DC	**30YC70**	—	—	—	—	—	—
1.6 A	5SJ4	60V DC	**30YA82**	—	—	—	—	—	—
1.6 A	5SJ4	125V DC	**30YC79**	—	—	—	—	—	—
2 A	5SJ4	125V DC	**30YC71**	FAZ-NA	48/96V DC	**19YG19**	C60BP	Not Rated	**482M31**
3 A	5SJ4	60V DC	**30YA77**	FAZ-NA	48/96V DC	**19YG20**	C60BP	Not Rated	**482M32**
3 A	5SJ4	125V DC	**30YC72**	—	—	—	—	—	—
4 A	5SJ4	125V DC	**30YC73**	FAZ-NA	48/96V DC	**19YG21**	C60BP	Not Rated	**482M33**
5 A	5SJ4	125V DC	**30YC76**	FAZ-NA	48/96V DC	**19YG22**	C60BP	Not Rated	**482M34**
6 A	—	—	—	FAZ-NA	48/96V DC	**19YG23**	C60BP	Not Rated	**482M35**
7 A	—	—	—	FAZ-NA	48/96V DC	**19YG24**	—	—	—
8 A	—	—	—	FAZ-NA	48/96V DC	**19YG25**	C60BP	Not Rated	**482M36**
10 A	5SJ4	125V DC	**30YC75**	FAZ-NA	48/96V DC	**19YG26**	C60BP	Not Rated	**482M37**
13 A	5SJ4	125V DC	**30YC77**	FAZ-NA	48/96V DC	**19YG27**	—	—	—
15 A	5SJ4	125V DC	**30YC81**	FAZ-NA	48/96V DC	**19YG28**	C60BP	Not Rated	**482M38**
16 A	5SJ4	125V DC	**30YC80**	—	—	—	—	—	—
16 A	5SJ4	60V DC	**30YA16**	FAZ-NA	48/96V DC	**19YG29**	—	—	—
20 A	5SJ4	125V DC	**30YC82**	FAZ-NA	48/96V DC	**19YG30**	C60BP	Not Rated	**482M39**
25 A	—	—	—	FAZ-NA	48/96V DC	**19YG31**	C60BP	Not Rated	**482M40**
30 A	5SJ4	125V DC	**30YC83**	FAZ-NA	48/96V DC	**19YG32**	C60BP	Not Rated	**482M41**
32 A	5SJ4	60V DC	**30YA19**	FAZ-NA	48/96V DC	**19YG33**	—	—	—
32 A	5SJ4	125V DC	**30YC84**	—	—	—	—	—	—
35 A	5SJ4	125V DC	**30YC85**	FAZ-NA	48/96V DC	**19YG34**	C60BP	Not Rated	**482M42**
40 A	5SJ4	125V DC	**30YC86**	FAZ-NA	48/96V DC	**19YG35**	C60BP	Not Rated	**482M43**
45 A	—	—	—	—	—	—	C60BP	Not Rated	**482M44**
50 A	—	—	—	—	—	—	C60BP	Not Rated	**482M45**
60 A	5SJ4	60V DC	**30YC20**	—	—	—	—	—	—
63 A	—	—	—	—	—	—	C60BP	Not Rated	**482M46**
D-Curve, 2-Pole UL489 DIN Rail-Mount Miniature Circuit Breakers									
0.5 A	5SJ4	60V DC	**30YC91**	—	—	—	—	—	—
0.5 A	5SJ4	125V DC	**30YA87**	—	—	—	—	—	—
1 A	—	—	—	FAZ-NA	48/96V DC	**19YG36**	C60BP	Not Rated	**482M82**
1.6 A	5SJ4	60V DC	**30YA91**	—	—	—	—	—	—
2 A	—	—	—	FAZ-NA	48/96V DC	**19YG37**	C60BP	Not Rated	**482M83**
3 A	—	—	—	FAZ-NA	48/96V DC	**19YG38**	C60BP	Not Rated	**482M84**
4 A	—	—	—	FAZ-NA	48/96V DC	**19YG39**	C60BP	Not Rated	**482M85**
5 A	—	—	—	FAZ-NA	48/96V DC	**19YG40**	C60BP	Not Rated	**482M86**
6 A	—	—	—	FAZ-NA	48/96V DC	**19YG41**	C60BP	Not Rated	**482M87**
7 A	—	—	—	FAZ-NA	48/96V DC	**19YG42**	—	—	—
8 A	—	—	—	FAZ-NA	48/96V DC	**19YG43**	C60BP	Not Rated	**482M88**
10 A	—	—	—	FAZ-NA	48/96V DC	**19YG44**	C60BP	Not Rated	**482M89**
13 A	—	—	—	FAZ-NA	48/96V DC	**19YG45**	—	—	—
15 A	—	—	—	FAZ-NA	48/96V DC	**19YG46**	C60BP	Not Rated	**482M90**
16 A	—	—	—	FAZ-NA	48/96V DC	**19YG47**	—	—	—
20 A	—	—	—	FAZ-NA	48/96V DC	**19YG48**	C60BP	Not Rated	**482M91**
25 A	—	—	—	FAZ-NA	48/96V DC	**19YG49**	C60BP	Not Rated	**482M92**
30 A	—	—	—	FAZ-NA	48/96V DC	**19YG50**	C60BP	Not Rated	**482M93**
32 A	—	—	—	FAZ-NA	48/96V DC	**19YG51**	—	—	—
35 A	—	—	—	FAZ-NA	48/96V DC	**19YG52**	C60BP	Not Rated	**482M94**
40 A	—	—	—	FAZ-NA	48/96V DC	**19YG53**	C60BP	Not Rated	**482M95**
45 A	—	—	—	—	—	—	C60BP	Not Rated	**482M96**
50 A	—	—	—	—	—	—	C60BP	Not Rated	**482M97**
60 A	5SJ4	60V DC	**30YC24**	—	—	—	—	—	—
63 A	5SJ4	60V DC	**30YC25**	—	—	—	C60BP	Not Rated	**482M98**

Spectra Adjustable Molded Case Circuit Breakers and Protectors

- 600VAC, 3-pole
- Lug-in/lug-out
- Suitable for reverse feed
- 65 and 100kA: current limiting
- HACR rated

Spectra RMS™ solid-state system uses interchangeable rating plugs and modular accessories for application-specific flexibility. Adjustable short-time and instantaneous trip characteristics. Front-mounted rating plugs (sold separately) establish or change the breaker ampere rating. UL Listed and CSA Certified.

Amps	Low Amp Trip Setting	High Amp Trip Setting	65kA at 120/240V AC Mfr. Model	65kA at 120/240V AC Item No.	100kA at 120/240V AC Mfr. Model	100kA at 120/240V AC Item No.	200kA at 120/240V AC Mfr. Model	200kA at 120/240V AC Item No.
Circuit Breaker with Interchangeable Rating Plug								
30 A	43 A	415 A	SEHA36AT0030	**3HWT2**	—	—	—	—
60 A	118 A	777 A	SEHA36AT0060	**3HWT3**	SELA36AT0060	**3HWU2**	SEPA36AT0060	**3HWX1**
100 A	206 A	1,280 A	SEHA36AT0100	**3HWT4**	SELA36AT0100	**3HWU3**	SEPA36AT0100	**3HWX2**
150 A	328 A	1,991 A	SEHA36AT0150	**3HWT5**	SELA36AT0150	**3HWU4**	SEPA36AT0150	**3HWX3**
250 A	205 A	2,500 A	SFHA36AT0250	**3HWX4**	SFLA36AT0250	**3HWX6**	SFPA36AT0250	**3HWX8**
400 A	1,210 A	4,080 A	—	—	SGLA36AT0400	**6CPH0**	SGPA36AT0400	**6CPH2**
600 A	1,830 A	6,075 A	—	—	SGLA36AT0600	**6CPH1**	SGPA36AT0600	**6CPH3**
800 A	2,440 A	8,750 A	SKHA36AT0800	**6CPH4**	SKLA36AT0800	**6CPH6**	SKPA36AT0800	**6CPH8**
1,200 A	3,650 A	12,215 A	SKHA36AT1200	**6CPH5**	SKLA36AT1200	**6CPH7**	SKPA36AT1200	**6CPH9**
Motor Circuit Protector with Interchangeable Rating Plug								
7 A	11 A	90 A	—	—	SELA36AI0007	**3HWT6**	SEPA36AI0007	**3HWU5**
30 A	43 A	415 A	—	—	SELA36AI0030	**3HWT7**	SEPA36AI0030	**3HWU6**
60 A	118 A	777 A	—	—	SELA36AI0060	**3HWT8**	SEPA36AI0060	**3HWU7**
100 A	206 A	1,280 A	—	—	SELA36AI0100	**3HWT9**	SEPA36AI0100	**3HWU8**
150 A	328 A	1,991 A	—	—	SELA36AI0150	**3HWU1**	SEPA36AI0150	**3HWU9**
250 A	205 A	2,500 A	—	—	SFLA36AI0250	**3HWX5**	SFPA36AI0250	**3HWX7**

Sensor Amp Rating	Plug Amp Rating	Mfr. Model	Item No.
Rating Plugs			
7A	3A	SRPE7A3	**3HWZ5**
	7A	SRPE7A7	**3HWZ6**
30A	15A	SRPE30A15	**3HWY7**
	20A	SRPE30A20	**3HWY8**
	25A	SRPE30A25	**3HWY9**
	30A	SRPE30A30	**3HWZ1**
60A	40A	SRPE60A40	**3HWZ2**
	50A	SRPE60A50	**3HWZ3**
	60A	SRPE60A60	**3HWZ4**
100A	70A	SRPE100A70	**3HWY1**
	80A	SRPE100A80	**3HWY2**
	90A	SRPE100A90	**3HWY3**
	100A	SRPE100A100	**3HWX9**
150A	110A	SRPE150A110	**3HWY4**
	125A	SRPE150A125	**3HWY5**
	150A	SRPE150A150	**3HWY6**
250A	70A	SRPF250A70	**3HXA6**
250A	90A	SRPF250A90	**3HXA7**
	100A	SRPF250A100	**3HWZ7**
	110A	SRPF250A110	**3HWZ8**
	125A	SRPF250A125	**3HWZ9**
	150A	SRPF250A150	**3HXA1**
	175A	SRPF250A175	**3HXA2**
	200A	SRPF250A200	**3HXA3**
	225A	SRPF250A225	**3HXA4**
	250A	SRPF250A250	**3HXA5**
400A	125A	SRPG400A125	**6CPJ0**
	150A	SRPG400A150	**6CPJ1**
	175A	SRPG400A175	**6CPJ2**
	200A	SRPG400A200	**6CPJ3**
	225A	SRPG400A225	**6CPJ4**
	250A	SRPG400A250	**6CPJ5**
	300A	SRPG400A300	**6CPJ6**
	350A	SRPG400A350	**6CPJ7**
	400A	SRPG400A400	**6CPJ8**
600A	250A	SRPG600A250	**6CPJ9**
	300A	SRPG600A300	**6CPK0**
	350A	SRPG600A350	**6CPK1**
	400A	SRPG600A400	**6CPK2**
	450A	SRPG600A450	**6CPK3**
	500A	SRPG600A500	**6CPK4**
	600A	SRPG600A600	**6CPK5**
800A	300A	SRPK800A300	**6CPL1**
	400A	SRPK800A400	**6CPL2**
	500A	SRPK800A500	**6CPL3**
	600A	SRPK800A600	**6CPL4**
	700A	SRPK800A700	**6CPL5**
	800A	SRPK800A800	**6CPL6**
1200A	600A	SRPK1200A600	**6CPK8**
	700A	SRPK1200A700	**6CPK9**
	800A	SRPK1200A800	**6CPL0**
	1000A	SRPK1200A1000	**6CPK6**
	1200A	SRPK1200A1200	**6CPK7**



Circuit Breaker No. 3HWT2



Motor Circuit Protector No. 3HWX5



Rating Plug No. 3HWY2

Plug In and Bolt On Circuit Breakers

TJJ SERIES

Feature 22kA IR ratings. Overall dim.: 10.13"L x 8.25"W x 4.31"D.

THQP, THQMV, THQC, AND SERIES

THQP 1- and 2-pole have 10kA IR ratings; THQC 1- and 2-pole have 22kA IR ratings; THQMV have 22kA IR ratings. Dim.: 1-pole, 3.875"L x 1"W x 2.562"D; 2-pole, 3.875"L x 2"W x 2.562"D.

THHQC SERIES

1- and 2-pole have 22kA IR ratings. Overall dim.: 1-pole, 3.875"L x 1"W x 2.5625"D; 2-pole, 3.875"L x 2"W x 2.5625"D.

THED SERIES

Feature 25kA IR ratings. Overall dim.: 1-pole, 6.31"L x 1.38"W x 3.63"D; 2-pole, 6.31"L x 2.75"W x 3.63"D; 3-pole, 6.31"L x 4.125"W x 3.63"D.

TED SERIES

1-pole breakers have 14kA IR ratings; 2-pole models have 18kA IR ratings; and 3-pole breakers have 14kA IR ratings. Overall dim.: 1-pole, 6.31"H x 1.38"W x 4.09"D; 2-pole, 6.31"H x 2.75"W x 4.09"D; 3-pole, 6.31"H x 4.125"W x 4.09"D.



No. 6AXL6



No. 6CPN7

Amps	No. of Poles	Item No.
TJJ Series, Line/Load Lug Terminals, Instantaneous Trip		
200 A	2	**6AXX4**
200 A	3	**6AXY3**
225 A	2	**6AXX5**
225 A	3	**6AXY4**
250 A	2	**6AXX6**
250 A	3	**6AXY5**
300 A	2	**6AXX7**
300 A	3	**6AXY6**
350 A	2	**6AXX8**
350 A	3	**6AXY7**
400 A	2	**6AXX9**
400 A	3	**6AXY8**
THQP Series, Lug Terminals		
15	1	**6AXV2**
15	2	**6AXW0**
20	1	**6AXV3**
20	2	**6AXW1**
25	1	**6AXV4**
25	2	**6AXW2**
30	1	**6AXV5**
30	2	**6AXW3**
35	1	**6AXV6**
35	2	**6AXW4**
40	1	**6AXV7**
40	2	**6AXW5**
45	1	**6AXV8**
45	2	**6AXW6**
50	1	**6AXV9**
50	2	**6AXW7**
THQMV Series, Lug Terminals		
100	2	**6AXU6**
125	2	**6AXU7**
150	2	**6AXU8**
175	2	**6AXU9**
200	2	**6AXV0**
225	2	**6AXV1**
THQC Series, Lug Terminals		
15	1	**6AXR8**
15	2	**6AXT7**
20	1	**6AXR9**
20	2	**6AXT8**
25	1	**6AXT0**
25	2	**6AXT9**
30	1	**6AXT1**
30	2	**6AXU0**
35	1	**6AXT2**
35	2	**6AXU1**
40	1	**6AXT3**
40	2	**6AXU2**
45	1	**6AXT4**
45	2	**6AXU3**
50	1	**6AXT5**
50	2	**6AXU4**
60	1	**6AXT6**
60	2	**6AXU5**
THHQC Series, Lug Terminals		
15	1	**6AXN8**
15	2	**6AXP7**
20	1	**6AXN9**
20	2	**6AXP8**
25	1	**6AXP0**
30	1	**6AXP1**
30	2	**6AXP9**
35	1	**6AXP2**
35	2	**6AXR0**
40	1	**6AXP3**
40	2	**6AXR1**
45	1	**6AXP4**
45	2	**6AXR2**
50	1	**6AXP5**
50	2	**6AXR3**
60	1	**6AXP6**
60	2	**6AXR4**
THED Series, Line/Load Lug Terminals		
2 A	1	**6AXL7**
15 A	1	**6AXL6**
15 A	2	**6AXN0**
20 A	2	**6AXN1**
20 A	3	**6AXN5**
25 A	1	**6AXL8**
25 A	2	**6AXN2**
25 A	3	**6AXN6**
30 A	1	**6AXL9**
30 A	2	**6AXN3**
30 A	3	**6AXN7**
TED Series, Line/Load Lug Terminals		
15 A	1	**6CPN7**
15 A	2	**6CPR0**
20 A	1	**6CPN8**
20 A	2	**6CPR1**
20 A	3	**6CPT7**
25 A	1	**6CPN9**
25 A	2	**6CPR2**
25 A	3	**6CPT8**
30 A	1	**6CPP0**
30 A	2	**6CPR3**
30 A	3	**6CPT9**
35 A	1	**6CPP1**
35 A	2	**6CPR4**
35 A	3	**6CPV0**
40 A	1	**6CPP2**
40 A	2	**6CPR5**
40 A	3	**6CPV1**
45 A	1	**6CPP3**
45 A	2	**6CPR6**
45 A	3	**6AXH5**
50 A	1	**6CPP4**
50 A	2	**6CPR7**
50 A	3	**6AXH6**
60 A	1	**6CPP5**
60 A	2	**6CPR8**
60 A	3	**6AXH7**
70 A	1	**6CPP6**
70 A	2	**6CPR9**
70 A	3	**6AXH8**
80 A	1	**6CPP7**
80 A	2	**6CPT0**
80 A	3	**6AXH9**
90 A	1	**6CPP8**
90 A	2	**6CPT1**
90 A	3	**6AXJ0**
100 A	1	**6CPP9**
100 A	2	**6CPT2**
100 A	3	**6AXJ1**
110 A	2	**6CPT3**
110 A	3	**6AXJ2**
125 A	2	**6CPT4**
125 A	3	**6AXJ3**
150 A	2	**6CPT5**
150 A	3	**6AXJ4**

THQL (Plug-In) and THQB (Bolt-On) Circuit Breakers

- 1-pole 120VAC; 2-pole 120/240VAC; 3-pole 240VAC
- Screw clamp connection up to 30A; box lug connection 35A and higher

Bolt-on breakers are for use in 120/240V AQ lighting panels. Plug-in breakers are for use in AQL lighting panels and Power Mark Gold load centers.

Amps	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Standard, 10kA at 120/240V AC Max. AIR Rating				
15	THQL	3HXH4	3HXK5	3AGG8
15	THQB	3HXR3	3HXU2	3HXW2
20	THQL	3HXH8	3HXK8	3AGG9
20	THQB	3HXR6	3HXU5	3HXW3
25	THQL	3HXJ3	3HXL2	3HXN1
25	THQB	3HXR9	3HXU8	3HXW4
30	THQL	3HXJ4	3HXL3	3HXN2
30	THQB	3HXT1	3HXU9	3HXW5
35	THQL	3HXJ7	3HXL6	3HXN3
35	THQB	3HXT4	3HXV3	3HXW6
40	THQL	3HXJ8	3HXL7	3HXN4
40	THQB	3HXT5	3HXV4	3HXW7
45	THQL	3HXJ9	3HXL8	3HXN5
45	THQB	3HXT6	3HXV5	3HXW8
50	THQL	3HXK1	3HXL9	3HXN6
50	THQB	3HXT7	3HXV6	3HXW9
60	THQL	3HXK2	3AGG1	3HXN7
60	THQB	3HXT8	3HXV7	3HXX1
70	THQL	3HXK3	3AGG2	3HXN8
70	THQB	3HXT9	3HXV8	3HXX2
80	THQL	—	3AGG3	3HXN9
80	THQB	—	3HXV9	3HXX3
90	THQL	—	3AGG4	3HXP1
90	THQB	—	3HXW1	3HXX4
100	THQL	—	3HXK4	3HXP2
100	THQB	—	3HXU1	3HXX5
High Interrupting Capacity, 22kA at 120/240V AC Max. AIR Rating				
20	THHQL	3HXG2	3HXG6	3HXG9
20	THHQB	3HXP3	3HXP6	3HXP9
30	THHQL	3HXG3	3HXG7	3HXH1
30	THHQB	3HXP4	3HXP7	3HXR1
60	THHQL	3HXG4	3HXG8	3HXH2
60	THHQB	3HXP5	3HXP8	3HXR2
100	THHQL	—	3HXG5	3HXH3
HID (High Intensity Discharge Lighting Loads), 10kA at 120/240V AC Max. AIR Rating				
15	THQL	3HXH6	3HXK7	—
15	THQB	3HXR5	3HXU4	—
20	THQL	3HXJ1	3HXL1	—
20	THQB	3HXR8	3HXU7	—
30	THQL	3HXJ6	3HXL5	—
30	THQB	3HXT3	3HXV2	—
Switching Neutral (Thermal Magnetic Pole and Nonautomatic Pole for Switching Neutral), 10kA at 120/240V AC Max. AIR Rating				
15	THQL	—	3AGG5	—
20	THQL	—	3AGG6	—
30	THQL	—	3AGG7	—
High Magnetic (High Inrush Loads), 10kA at 120/240V AC Max. AIR Rating				
15	THQL	3HXH7	—	—
20	THQL	3HXJ2	—	—
Arc Fault Circuit Interrupter, 10kA at 120/240V AC Max. AIR Rating				
15	THQB	32HY01	—	—
15	THQL	32HY05	—	—
20	THQB	32HY02	—	—
20	THQL	32HY06	—	—
Accessories				
Bolt-On Mounting Base		—	—	3HWP3
Main Breaker Retainer, RK1		—	—	32WR76
Main Breaker Retainer, RK2		—	—	32WR77
Main Breaker Retainer, RK3		—	—	32WR78
Main Breaker Retainer, RK4		—	—	32WR79
Surge Arrester		—	—	32WR80


Standard Plug-In 1-Pole


Standard Bolt-On 2-Pole


Standard Bolt-On 3-Pole


Switching Neutral Plug-In 2-Pole

THQL Load Centers

Designed with sturdy copper bus and galvanized box to increase durability and reliability. Reduce total cost through faster, easier installation. Enhanced application flexibility and reduced inventory requirements. Side mounted main breaker allows top or bottom feed. Maintain optimum wire-bending space. Load center accessories available, see Grainger.com®.

Amps	No. of Spaces	NEMA 1 INDOOR H	W	D	Mfr. Model	Item No.	NEMA 3R OUTDOOR H	W	D	Mfr. Model	Item No.
1-Phase, 120/240V AC, Tin Plated Copper Bus											
Convertible, Main Lug											
125 A	8	12 23/64 in	12 19/32 in	3 23/64 in	TLM812FCUD	32WR94 *	11 1/32 in	11 3/4 in	4 15/16 in	TLM812RCU	32WR95
125 A	8	11 21/64 in	11 37/64 in	3 23/64 in	TLM812SCUD	32WR96 †	—	—	—	—	—
125 A	24	26 3/64 in	15 23/64 in	3 7/8 in	TLM2412CCU	32WR88	30 3/16 in	14 55/64 in	5 7/32 in	TLM2412RCU	32WR89
200 A	40	40 35/64 in	15 23/64 in	3 7/8 in	TLM4020CCU	32WR90	43 7/32 in	14 55/64 in	6 13/32 in	TLM4020RCU	32WR91
225 A	42	44 51/64 in	15 23/64 in	3 7/8 in	TLM4222CCU	32WR92	43 7/32 in	14 55/64 in	6 13/32 in	TLM4222RCU	32WR93
Main Circuit Breaker											
125 A	24	26 3/64 in	15 23/64 in	3 7/8 in	TM2412CCU	32WR99	30 3/16 in	14 55/64 in	5 7/32 in	TM2412RCU	32WT01
200 A	40	40 35/64 in	15 23/64 in	3 7/8 in	TM4020CCU	32WT04	43 7/32 in	14 27/32 in	6 13/32 in	TM4020RCU	32WT05
225 A	42	44 51/64 in	15 23/64 in	3 7/8 in	TM4222CCU	32WT06	43 7/32 in	14 27/32 in	6 13/32 in	TM4222RCU	32WT07
3-Phase, 120/208V AC, Aluminum Bus											
100 A	18	24 3/8 in	15 23/64 in	3 7/8 in	TM18410C	32WR97	27 in	13 1/4 in	5 1/2 in	TM18410R	32WR98
200 A	30	36 51/64 in	15 23/64 in	3 7/8 in	TM30420C	32WT02	36 1/4 in	12 7/8 in	5 1/2 in	TM30420R	32WT03
3-Phase, 208Y/120V AC, Aluminum Bus											
225 A	42	44 13/16 in	15 23/64 in	4 3/4 in	TM42422C	32WT08	41 1/32 in	13 1/4 in	6 41/64 in	TM42422R	32WT09
Main Lug											
125 A	12	20 3/8 in	15 23/64 in	3 7/8 in	TL12412C	32WR81	21 3/4 in	13 1/4 in	5 33/64 in	TL12412R	32WR82
225 A	30	44 13/16 in	15 23/64 in	4 3/4 in	TL30422C	32WR83	—	—	—	—	—
225 A	42	44 13/16 in	15 23/64 in	4 3/4 in	TL42422C	32WR84	41 1/32 in	13 1/4 in	6 41/64 in	TL42422R	32WR85

** Flush enclosure. † Surface enclosure.*


No. 32WR97

TEY (Bolt-On) Circuit Breakers

- 1-pole 277VAC; 2- and 3-pole 277/480VAC
- 14K AIR
- Screw clamp connection up to 30A; box lug connection 35A and higher

Molded-case breakers for use in 1" pole spacings in 480/277V AE lighting panels.

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
15 A	10 AWG	3HXA9	3HXD4	3HXE8
20 A	10 AWG	3HXC1	3HXD5	3HXE9
25 A	10 AWG	3HXC2	3HXD6	3HXF1
30 A	10 AWG	3HXC3	3HXD7	3HXF2
35 A	4 AWG	3HXC4	3HXD8	3HXF3
40 A	4 AWG	3HXC5	3HXD9	3HXF4
45 A	4 AWG	3HXC6	3HXE1	3HXF5
50 A	4 AWG	3HXC7	3HXE2	3HXF6
60 A	4 AWG	3HXC8	3HXE3	3HXF7
70 A	1/0 AWG	3HXC9	3HXE4	3HXF8
80 A	1/0 AWG	3HXD1	3HXE5	3HXF9
90 A	1/0 AWG	3HXD2	3HXE6	3HXG1
100 A	1/0 AWG	3HXA8	3HXD3	3HXE7
Bolt-On Mounting Base		—	—	3HWP3


1-Pole


2-Pole


3-Pole

Circuit Breaker Accessories

For Use With	Voltage	Amps	Mfr. Model	Item No.
Lug Kit				
GE Spectra Series SK800 Circuit Breakers	600V AC	20 A	FCALK12	**6CNU4**
GE Spectra Series SK800 Circuit Breakers	600V AC	60 A	FCALK13	**6CNU5**
GE Spectra Series SK800 Circuit Breakers	600V AC	100 A	FCALK14	**6CNU6**
GE Spectra Series SK800 Circuit Breakers	600V AC	800 A	TCALK381	**46C458**
GE Spectra Series SK800 Circuit Breakers	600V AC	600 A	TCLK365	**6CPL9**
GE Spectra Series SK800 Circuit Breakers	600V AC	800 A	TCAL81	**6CPL8**
Lug				
GE Spectra Series SF Circuit Breakers	600V AC	150 A	TCAL18	**3HZE6**
GE Spectra Series SF Circuit Breakers	600V AC	250 A	TCAL29	**3HWP6**
Panel Mounting Kit				
GE TED, THED4 and SE Circuit Breakers	—	—	ASPTED3P	**6CYV8**
Bell Alarm Switch				
GE Spectra Series Circuit Breakers	30V AC	15 A, 1,200 A	SABAG1	**3HWN9**
GE Spectra Series Circuit Breakers	240V AC/125V DC	15 A, 1,200 A	SABAP1	**3HWP1**
Replacement Trip Coil				
GE Spectra Series Circuit Breakers	—	15 A, 1,200 A	SACTUATOR	**3HWP2**
Raintight Hub Closing Cap				
GE PowerMark Gold and Plus Load Centers Circuit Breakers	—	—	TCCP	**32WR64**
Ground Kit				
PowerMark Gold and Plus Load Centers	—	225 A, 225	TGK24	**32WR68**
PowerMark Gold and Plus Load Centers	—	225 A, 225	TGK42	**32WR71**
Screw Hardware Kit				
GE PowerMark Gold and Plus Load Centers Circuit Breakers	—	—	THDWRKIT	**32WR75**
Neutral and Ground Lug Kit				
PowerMark Gold and Plus Load Centers	120/240V AC	200 A, 200	TLK20	**32WR86**
Filler Plate				
PowerMark Gold and Plus Load Centers	—	—	TQLFP1	**32WT13**
Undervoltage Release				
GE Spectra Series Circuit Breakers	120V AC/125V DC	15 A, 1,200 A	SAUV1	**3HWR7**
GE Spectra Series Circuit Breakers	240V AC/250V DC	15 A, 1,200 A	SAUV2	**3HWR8**
GE Spectra Series Circuit Breakers	24V AC/24V DC	15 A, 1,200 A	SAUV3	**3HWR9**
GE Spectra Series Circuit Breakers	48V AC/48V DC	15 A, 1,200 A	SAUV4	**3HWT1**
Shunt Trip				
GE Spectra Circuit Breakers	120V AC/125V DC	0.62 A	SAST1	**3HWR2**
GE Spectra Circuit Breakers	240V AC/250V DC	0.31 A	SAST2	**3HWR3**
GE Spectra Circuit Breakers	24V AC/24V DC	3.12 A	SAST3	**3HWR4**
GE Spectra Circuit Breakers	48V AC/48V DC	1.56 A	SAST4	**3HWR5**
GE Spectra Circuit Breakers	Not Rated/12V DC	6.25 A	SAST5	**3HWR6**



Lug Kit
No. 6CPL9



Filler Plate
No. 32WT13



Undervoltage Release
No. 3HWR7

Amps	Max. Wire Size (AWG)	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
ED, 120/240VAC, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	ED21B015	**6FMY1**	—	—	—	—
20 A	10	—	—	—	—	ED23B020	**6FNA1**
25 A	10	ED21B025	**6FMY2**	ED22B025	**6FMZ1**	ED23B025	**6FNA2**
30 A	4	ED21B030	**6FMY3**	—	—	ED23B030	**6FNA3**
35 A	4	ED21B035	**6FMY4**	ED22B035	**6FMZ2**	—	—
40 A	4	ED21B040	**6FMY5**	ED22B040	**6FMZ3**	ED23B040	**6FNA4**
45 A	4	—	—	ED22B045	**6FMZ4**	ED23B045	**6FNA5**
50 A	4	ED21B050	**6FMY6**	ED22B050	**6FMZ5**	ED23B050	**6FNA6**
60 A	4	ED21B060	**6FMY7**	ED22B060	**6FMZ6**	ED23B060	**6FNA7**
70 A	1/0	ED21B070	**6FMY8**	ED22B070	**6FMZ7**	ED23B070	**6FNA8**
80 A	1/0	ED21B080	**6FMY9**	ED22B080	**6FMZ8**	ED23B080	**6FNA9**
90 A	1/0	—	—	ED22B090	**6FMZ9**	ED23B090	**6FNC0**
100 A	1/0	ED21B100	**6FMZ0**	ED22B100	**6FNA0**	ED23B100	**6FNC1**
ED, 277/480VAC, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	ED41B015	**3CMG4**	ED42B015	**3CMH5**	ED43B015	**3CMJ6**
20 A	10	ED41B020	**3CMG5**	ED42B020	**3CMH6**	ED43B020	**3CMJ7**
25 A	10	ED41B025	**6FNC2**	—	—	ED43B025	**6FNC9**
30 A	4	ED41B030	**3CMG6**	ED42B030	**3CMH7**	ED43B030	**3CMJ8**
35 A	4	ED41B035	**6FNC3**	—	—	ED43B035	**6FND0**
40 A	4	ED41B040	**3CMG7**	ED42B040	**3CMH8**	ED43B040	**3CMJ9**
45 A	4	ED41B045	**6FNC4**	ED42B045	**6FNC6**	ED43B045	**6FND1**
50 A	4	ED41B050	**3CMG8**	ED42B050	**3CMH9**	ED43B050	**3CMK1**
60 A	4	ED41B060	**3CMG9**	ED42B060	**3CMJ1**	ED43B060	**3CMK2**
70 A	1/0	ED41B070	**3CMH1**	ED42B070	**3CMJ2**	ED43B070	**3CMK3**
80 A	1/0	ED41B080	**3CMH2**	ED42B080	**3CMJ3**	ED43B080	**3CMK4**
90 A	1/0	ED41B090	**3CMH3**	ED42B090	**3CMJ4**	ED43B090	**3CMK5**
100 A	1/0	ED41B100	**3CMH4**	ED42B100	**3CMJ5**	ED43B100	**3CMK6**
110 A	2/0	—	—	ED42B110	**6FNC7**	ED43B110	**6FND2**
125 A	2/0	—	—	ED42B125	**6FNC8**	ED43B125	**6FND3**
HED, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	HED41B015	**3AFK9**	HED42B015	**3CMP1**	HED43B015	**3CMR2**
20 A	10	HED41B020	**3CMN1**	HED42B020	**3CMP2**	HED43B020	**3CMR3**
25 A	10	HED41B025	**6FNH0**	—	—	HED43B025	**6GNC2**
30 A	4	HED41B030	**3CMN2**	HED42B030	**3CMP3**	HED43B030	**3CMR4**
35 A	4	HED41B035	**6FNH1**	HED42B035	**6FNH3**	HED43B035	**6GNC3**
40 A	4	HED41B040	**3CMN3**	HED42B040	**3CMP4**	HED43B040	**3CMR5**
45 A	4	HED41B045	**6FNH2**	HED42B045	**6FNH4**	HED43B045	**6GNC4**
50 A	4	HED41B050	**3CMN4**	HED42B050	**3CMP5**	HED43B050	**3CMR6**
60 A	4	HED41B060	**3CMN5**	HED42B060	**3CMP6**	HED43B060	**3CMR7**
70 A	1/0	HED41B070	**3CMN6**	HED42B070	**3CMP7**	HED43B070	**3CMR8**
80 A	1/0	HED41B080	**3CMN7**	HED42B080	**3CMP8**	HED43B080	**3CMR9**
90 A	1/0	HED41B090	**3CMN8**	HED42B090	**3CMP9**	HED43B090	**3CMT1**
100 A	1/0	HED41B100	**3CMN9**	HED42B100	**3CMR1**	HED43B100	**3CMT2**
110 A	—	—	—	HED42B110	**6GNC0**	HED43B110	**6GNC5**
125 A	—	—	—	HED42B125	**6GNC1**	HED43B125	**6GNC6**
FXD, For Use With SB Switchboards Without Lugs, Sentron Panelboards							
100 A	—	—	—	—	—	FXD63B100	**6FNE5**
125 A	—	—	—	FXD62B125	**6FNE1**	FXD63B125	**6FNE6**
150 A	—	—	—	FXD62B150	**6FNE2**	FXD63B150	**6FNE7**
175 A	—	—	—	FXD62B175	**6FNE3**	FXD63B175	**6FNE8**
200 A	—	—	—	—	—	FXD63B200	**6FNE9**
250 A	—	—	—	FXD62B250	**6FNE4**	FXD63B250	**6FNF1**
JXD, For Use With SB Switchboards Without Lugs, Sentron Panelboards							
200 A	500 kcmil	—	—	JXD22B200	**6GNF8**	JXD23B200	**6GNG4**
225 A	500 kcmil	—	—	JXD22B225	**6GNF9**	JXD23B225	**6GNG5**
250 A	500 kcmil	—	—	JXD22B250	**6GNG0**	JXD23B250	**6GNG6**
300 A	500 kcmil	—	—	JXD22B300	**6GNG1**	JXD23B300	**6GNG7**
350 A	500 kcmil	—	—	JXD22B350	**6GNG2**	JXD23B350	**6GNG8**
400 A	500 kcmil	—	—	JXD22B400	**6GNG3**	JXD23B400	**6GNG9**



ED 1-Pole



HED 2-Pole

SIEMENS

Circuit Breakers for Siemens Panelboards and Switchboards

- Box lug

ED
- 1-pole: 10kA IR at 120/240VAC; 1-pole: 22kA at 277VAC
- 2- and 3-pole: 18kA at 480VAC

HED
- 1-pole: 65kA IR at 277VAC, 12 to 30A; 1-pole: 25kA IR at 277VAC, 35 to 100A
- 2- and 3-pole: 42kA IR at 480VAC

FXD
- 2- and 3-pole: 22kA IR at 600V

JXD
- 2- and 3-pole: 65kA IR at 240VAC

SIEMENS
BQ (Bolt-On) Circuit Breakers

These BQ and BQH series miniature circuit breakers are bolted into place in panelboards, so they're more stable than plug-in breakers. They interrupt currents when low-level faults are detected in the circuit. They have a lug orientation to allow for straight-in wiring through bus bars, which eliminates the need to pigtail wires and helps organize the panelboard.



BQ 1-Pole
No. 6FMH3



BQ 1-Pole
Shunt Trip
No. 3HZZ3

Amps	Phase	Max. AIR Rating	Series	Item No.
BQ & BQH Series, Bolt-On Siemens Miniature Circuit Breakers				
1-Pole, High Interrupting Capacity				
15	1	22kA at 120V AC IR	BQH	**6FMH4**
20	1	22kA at 120V AC IR	BQH	**3HZW4**
30	1	22kA at 120V AC IR	BQH	**3HZW5**
40	1	22kA at 120V AC IR	BQH	**3HZW6**
50	1	22kA at 120V AC IR	BQH	**3HZW7**
60	1	22kA at 120V AC IR	BQH	**3HZW8**
70	1	22kA at 120V AC IR	BQH	**3HZW9**
1-Pole, Shunt Trip				
15	1	10kA at 120V AC IR	BQ	**3HZZ3**
20	1	10kA at 120V AC IR	BQ	**3HZZ4**
30	1	10kA at 120V AC IR	BQ	**3HZZ5**
40	1	10kA at 120V AC IR	BQ	**3HZZ6**
20	1	22kA at 120V AC IR	BQH	**6FMH5**
30	1	22kA at 120V AC IR	BQH	**6FMH8**
1-Pole, Standard				
10	1	10kA at 120V AC IR	BQ	**6FMH3**
25	1	10kA at 120V AC IR	BQ	**6FMH6**
35	1	10kA at 120V AC IR	BQ	**6FMH9**
45	1	10kA at 120V AC IR	BQ	**6FMJ1**
55	1	10kA at 120V AC IR	BQ	**6FMJ2**
70	1	10kA at 120V AC IR	BQ	**6FMJ4**
15	1	10kA at 120V AC IR	BQ	**3HZT2**
20	1	10kA at 120V AC IR	BQ	**3HZT3**
30	1	10kA at 120V AC IR	BQ	**3HZT4**
40	1	10kA at 120V AC IR	BQ	**3HZT5**
50	1	10kA at 120V AC IR	BQ	**3HZT6**
60	1	10kA at 120V AC IR	BQ	**3HZT7**
2-Pole, High Interrupting Capacity				
80	1	22kA at 120/240V AC IR	BQH	**6FMK9**
20	1	22kA at 120/240V AC IR	BQH	**3HZX2**
30	1	22kA at 120/240V AC IR	BQH	**3HZX3**
40	1	22kA at 120/240V AC IR	BQH	**3HZX4**
50	1	22kA at 120/240V AC IR	BQH	**3HZX5**
60	1	22kA at 120/240V AC IR	BQH	**3HZX6**
70	1	22kA at 120/240V AC IR	BQH	**3HZX7**
100	1	22kA at 120/240V AC IR	BQH	**3HZY1**
2-Pole, Shunt Trip				
15	1	10kA at 120/240V AC IR	BQ	**3CMA4**
20	1	10kA at 120/240V AC IR	BQ	**3CMA5**
30	1	10kA at 120/240V AC IR	BQ	**3CMA6**
40	1	10kA at 120/240V AC IR	BQ	**3CMA7**
50	1	10kA at 120/240V AC IR	BQ	**3CMA8**
60	1	10kA at 120/240V AC IR	BQ	**3CMA9**
100	1	10kA at 120/240V AC IR	BQ	**3CMC3**
25	1	10kA at 120/240V AC IR	BQ	**6FMJ9**
70	1	10kA at 120/240V AC IR	BQ	**6FMK6**
80	1	10kA at 120/240V AC IR	BQ	**6FMK8**
90	1	10kA at 120/240V AC IR	BQ	**6FML1**
125	1	10kA at 120/240V AC IR	BQ	**6FML5**
20	1	22kA at 120/240V AC IR	BQH	**6FMJ7**
30	1	22kA at 120/240V AC IR	BQH	**6FMK1**
100	1	22kA at 120/240V AC IR	BQH	**6FML2**
2-Pole, Standard				
10	1	10kA at 120/240V AC IR	BQ	**6FMJ5**
25	1	10kA at 120/240V AC IR	BQ	**6FMJ8**
35	1	10kA at 120/240V AC IR	BQ	**6FMK2**
45	1	10kA at 120/240V AC IR	BQ	**6FMK4**
70	1	10kA at 120/240V AC IR	BQ	**6FMK5**
80	1	10kA at 120/240V AC IR	BQ	**6FMK7**
90	1	10kA at 120/240V AC IR	BQ	**6FML0**
125	1	10kA at 120/240V AC IR	BQ	**6FML4**
15	1	10kA at 120/240V AC IR	BQ	**3HZU1**
20	1	10kA at 120/240V AC IR	BQ	**3HZU2**
30	1	10kA at 120/240V AC IR	BQ	**3HZU3**
40	1	10kA at 120/240V AC IR	BQ	**3HZU4**
50	1	10kA at 120/240V AC IR	BQ	**3HZU5**
60	1	10kA at 120/240V AC IR	BQ	**3HZU6**
100	1	10kA at 120/240V AC IR	BQ	**3HZV1**
15	1	10kA at 240V AC IR	BQH	**6FML7**
20	1	10kA at 240V AC IR	BQH	**6FML8**
30	1	10kA at 240V AC IR	BQH	**6FMN0**
3-Pole, High Interrupting Capacity				
15	3	22kA at 240V AC IR	BQH	**6FMN8**
25	3	22kA at 240V AC IR	BQH	**6FMP2**
35	3	22kA at 240V AC IR	BQH	**6FMP4**
45	3	22kA at 240V AC IR	BQH	**6FMP8**
80	3	22kA at 240V AC IR	BQH	**6FMR6**
90	3	22kA at 240V AC IR	BQH	**6FMT0**
20	3	22kA at 240V AC IR	BQH	**3HZY3**
30	3	22kA at 240V AC IR	BQH	**3HZY4**
40	3	22kA at 240V AC IR	BQH	**3HZY5**
50	3	22kA at 240V AC IR	BQH	**3HZY6**
60	3	22kA at 240V AC IR	BQH	**3HZY7**
70	3	22kA at 240V AC IR	BQH	**3HZY8**
100	3	22kA at 240V AC IR	BQH	**3HZZ2**
3-Pole, Shunt Trip				
15	3	10kA at 240V AC IR	BQ	**3CLZ2**
20	3	10kA at 240V AC IR	BQ	**3CLZ3**
30	3	10kA at 240V AC IR	BQ	**3CLZ4**
40	3	10kA at 240V AC IR	BQ	**3CLZ5**
50	3	10kA at 240V AC IR	BQ	**3CLZ6**
60	3	10kA at 240V AC IR	BQ	**3CLZ7**
100	3	10kA at 240V AC IR	BQ	**3CMA1**
45	3	10kA at 240V AC IR	BQ	**6FMP7**
70	3	10kA at 240V AC IR	BQ	**6FMR2**
80	3	10kA at 240V AC IR	BQ	**6FMR5**
90	3	10kA at 240V AC IR	BQ	**6FMR9**
15	3	22kA at 240V AC IR	BQH	**6FMN9**
20	3	22kA at 240V AC IR	BQH	**6FMP0**
50	3	22kA at 240V AC IR	BQH	**6FMP9**
60	3	22kA at 240V AC IR	BQH	**6FMR0**
70	3	22kA at 240V AC IR	BQH	**6FMR3**
80	3	22kA at 240V AC IR	BQH	**6FMR7**
3-Pole, Standard				
25	3	10kA at 240V AC IR	BQ	**6FMP1**
45	3	10kA at 240V AC IR	BQ	**6FMP6**
70	3	10kA at 240V AC IR	BQ	**6FMR1**
80	3	10kA at 240V AC IR	BQ	**6FMR4**
90	3	10kA at 240V AC IR	BQ	**6FMR8**
15	3	10kA at 240V AC IR	BQ	**3HZV2**
20	3	10kA at 240V AC IR	BQ	**3HZV3**
30	3	10kA at 240V AC IR	BQ	**3HZV4**
40	3	10kA at 240V AC IR	BQ	**3HZV5**
50	3	10kA at 240V AC IR	BQ	**3HZV6**
60	3	10kA at 240V AC IR	BQ	**3HZV7**
100	3	10kA at 240V AC IR	BQ	**3HZW2**



1-Pole



2-Pole

SIEMENS
HBL Frame Circuit Breakers

- Bolt-on panelboard mount
- 1-pole: 65kA IR at 120VAC
- 2-pole: 65kA IR at 120/240VAC
- 3-pole: 65kA IR at 240VAC

Amps	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
Standard						
15	B115HH	**6EUZ0**	B215HH	**6EVG3**	B315HH	**6EVU1**
20	B120HH	**6EUZ7**	B220HH	**6EVH1**	B320HH	**6EVU6**
25	B125HH	**6EVA3**	—	—	B325HH	**6EVX2**
30	B130HH	**6EVA8**	B230HH	**6EVJ5**	B330HH	**6EVX7**
35	B135HH	**6EVC3**	B235HH	**6EVK3**	B335HH	**6EVY3**
40	B140HH	**6EVC7**	B240HH	**6EVK8**	B340HH	**6FMA6**
45	—	—	B245HH	**6EVL6**	B345HH	**6FMC2**
50	B150HH	**6EVD6**	B250HH	**6EVN1**	B350HH	**6FMC7**
60	B160HH	**6EVE2**	B260HH	**6EVN8**	B360HH	**6FMD2**
70	—	—	B270HH	**6EVP6**	B370HH	**6FMD8**
80	—	—	B280HH	**6EVR3**	B380HH	**6FME4**
90	—	—	B290HH	**6EVT0**	B390HH	**6FMF0**
100	—	—	B2100HH	**6EVE9**	B3100HH	**6EVT6**
125	—	—	B2125HH	**6EVF8**	—	—
Shunt Trip						
15	B115HH00S01	**6EUZ1**	B215HH00S01	**6EVG4**	B315HH00S01	**6EVU2**
20	B120HH00S01	**6EUZ8**	B220HH00S01	**6EVH2**	B320HH00S01	**6EVU7**
25	—	—	—	—	B325HH00S01	**6EVX3**
30	B130HH00S01	**6EVA9**	B230HH00S01	**6EVJ6**	B330HH00S01	**6EVX8**
35	—	—	—	—	B335HH00S01	**6EVY4**
40	—	—	B240HH00S01	**6EVK9**	—	—
50	B150HH00S01	**6EVD7**	B250HH00S01	**6EVN2**	B350HH00S01	**6FMC8**
60	—	—	B260HH00S01	**6EVN9**	B360HH00S01	**6FMD3**
70	—	—	B270HH00S01	**6EVP7**	—	—
80	—	—	B280HH00S01	**6EVR4**	B380HH00S01	**6FME5**
90	—	—	B290HH00S01	**6EVT1**	B390HH00S01	**6FMF1**
100	—	—	B2100HH00S01	**6EVF0**	B3100HH00S01	**6EVT7**



No. 6DNT0



No. 6DNT1



No. 6DNT2



No. 6DNT3



No. 6DNT4



No. 6DNT5



No. 6FMX1



No. 6FMX2

Siemens Circuit Breaker Accessories

SIEMENS

Description	For Use With	Mfr. Model	Item No.
Padlocking Device	Siemens BL, BLF, BE, BEF Circuit Breakers	ECPLD1	**6DNT0**
Padlocking Device	Siemens BL, BLF, BE, BEF, BQ Circuit Breakers	ECPLD2	**6DNT1**
Handle Blocking Device	Siemens BQXD, BL, BQ, BQH, HBQ, BLH, HBL Circuit Breakers	ECQL1	**6DNT2**
Locking Device	Siemens BQXD, BL, BQ, BQH, HBQ, BLH, HBL Circuit Breakers	ECQLD3	**6DNT3**
Mechanical Interlock	Siemens BQ Circuit Breakers	ECQML12	**6DNT4**
Handle Tie	Siemens QP and QT Circuit Breakers	ECQTH3	**6DNT5**
Handle Blocking Device	Siemens BQD, CQD, NGG Breakers	BQDHBD	**6FMX1**
Padlocking Device	Siemens BQD, CQD Breakers	BQDPLD	**6FMX2**

QP (Plug-In) and BL (Bolt-On) Circuit Breakers for Siemens Load Centers

SIEMENS

- Fixed lug
- UL Listed and CSA Certified

These miniature circuit breakers are compatible with Siemens panelboards and load centers and interrupt the flow of current when low-level faults are detected. They prevent damage caused by overcurrents and short circuits in residential, light commercial, and industrial applications where sensitive circuit protection is needed.

- NOTE: QP and BL breakers are UL Approved replacements for ITE breakers.



QP 1-Pole
No. 3CNE5

Amps	Phase	Max. AIR Rating	Series	Item No.
B Series, Bolt-On Siemens Miniature Circuit Breakers				
1-Pole, Ground Fault Circuit Interrupter				
15	1	10kA at 120V AC IR	BF	**3HZN4**
20	1	10kA at 120V AC IR	BF	**3HZN5**
30	1	10kA at 120V AC IR	BF	**3HZN6**
25	1	10kA at 120V AC IR	BF	**6FMG4**
15	1	22kA at 120V AC IR	BFH	**6FMG1**
20	1	22kA at 120V AC IR	BFH	**6FMG2**
1-Pole, Ground Fault Equipment Protection				
15	1	10kA at 120/240V AC IR	BLE	**3HZL4**
20	1	10kA at 120V AC IR	BLE	**3HZL5**
30	1	10kA at 120V AC IR	BLE	**3HZL6**
15	1	22kA at 120V AC IR	BLE	**6FMF2**
20	1	22kA at 120V AC IR	BLE	**6FMF3**
1-Pole, Standard				
15	1	10kA at 120/240V AC IR	BL	**3CMX8**
20	1	10kA at 120/240V AC IR	BL	**3CMY1**
30	1	10kA at 120/240V AC IR	BL	**3CMY4**
40	1	10kA at 120/240V AC IR	BL	**3CMY5**
50	1	10kA at 120/240V AC IR	BL	**3CMY6**
60	1	10kA at 120/240V AC IR	BL	**3CMY7**
25	1	10kA at 120/240V AC IR	BL	**6EUZ9**
35	1	10kA at 120/240V AC IR	BL	**6EVC0**
45	1	10kA at 120/240V AC IR	BL	**6EVC9**
55	1	10kA at 120/240V AC IR	BL	**6EVD8**
70	1	10kA at 120/240V AC IR	BL	**6EVE3**
15	1	22kA at 120/240V AC IR	BL	**6EUY8**
20	1	22kA at 120/240V AC IR	BL	**6EUZ5**
25	1	22kA at 120/240V AC IR	BL	**6EVA1**
30	1	22kA at 120/240V AC IR	BL	**6EVA6**
40	1	22kA at 120/240V AC IR	BL	**6EVC5**
50	1	22kA at 120/240V AC IR	BL	**6EVD4**
60	1	22kA at 120/240V AC IR	BL	**6EVE1**
70	1	22kA at 120V AC IR	BL	**6EVE5**
2-Pole, Ground Fault Circuit Interrupter				
15	1	10kA at 120/240V AC IR	BF	**3HZN7**
20	1	10kA at 120/240V AC IR	BF	**3HZN8**
30	1	10kA at 120/240V AC IR	BF	**3HZN9**
40	1	10kA at 120/240V AC IR	BF	**3HZP1**
50	1	10kA at 120/240V AC IR	BF	**3HZP2**
60	1	10kA at 120/240V AC IR	BF	**3HZP3**
30	1	22kA at 120/240V AC IR	BFH	**6FMG9**
40	1	22kA at 120/240V AC IR	BFH	**6FMH0**
50	1	22kA at 120/240V AC IR	BFH	**6FMH1**
60	1	22kA at 120/240V AC IR	BFH	**6FMH2**
2-Pole, Ground Fault Equipment Protection				
15	1	10kA at 120/240V AC IR	BLE	**3HZL7**
20	1	10kA at 120/240V AC IR	BLE	**3HZL8**
30	1	10kA at 120/240V AC IR	BLE	**3HZL9**
40	1	10kA at 120/240V AC IR	BLE	**3AGJ1**
50	1	10kA at 120/240V AC IR	BLE	**3AGJ2**
60	1	10kA at 120/240V AC IR	BLE	**3AGJ3**
2-Pole, Standard				
15	1	10kA at 120/240V AC IR	BL	**3CMZ3**
20	1	10kA at 120/240V AC IR	BL	**3CMZ4**
30	1	10kA at 120/240V AC IR	BL	**3CMZ6**
40	1	10kA at 120/240V AC IR	BL	**3CMZ8**
50	1	10kA at 120/240V AC IR	BL	**3CNA1**
60	1	10kA at 120/240V AC IR	BL	**3CNA2**
100	1	10kA at 120/240V AC IR	BL	**3CMZ1**
25	1	10kA at 120/240V AC IR	BL	**6EVH5**
35	1	10kA at 120/240V AC IR	BL	**6EVJ9**
45	1	10kA at 120/240V AC IR	BL	**6EVL2**
70	1	10kA at 120/240V AC IR	BL	**6EVP2**
80	1	10kA at 120/240V AC IR	BL	**6EVP9**
90	1	10kA at 120/240V AC IR	BL	**6EVR6**
110	1	10kA at 120/240V AC IR	BL	**6EVF2**
125	1	10kA at 120/240V AC IR	BL	**6EVF5**
15	1	22kA at 120/240V AC IR	BL	**6EVG2**
20	1	22kA at 120/240V AC IR	BL	**6EVG9**
25	1	22kA at 120/240V AC IR	BL	**6EVH7**
30	1	22kA at 120/240V AC IR	BL	**6EVJ3**
35	1	22kA at 120/240V AC IR	BL	**6EVK1**
40	1	22kA at 120/240V AC IR	BL	**6EVK6**
45	1	22kA at 120/240V AC IR	BL	**6EVL4**
50	1	22kA at 120/240V AC IR	BL	**6EVL9**
60	1	22kA at 120/240V AC IR	BL	**6EVN6**
70	1	22kA at 120/240V AC IR	BL	**6EVP4**
80	1	22kA at 120/240V AC IR	BL	**6EVR1**
90	1	22kA at 120/240V AC IR	BL	**6EVR8**
100	1	22kA at 120/240V AC IR	BL	**6EVE7**
110	1	22kA at 120/240V AC IR	BL	**6EVF3**
125	1	22kA at 120/240V AC IR	BL	**6EVF7**
3-Pole, Standard				
15	3	10kA at 240V AC IR	BL	**3CNA6**
20	3	10kA at 240V AC IR	BL	**3CNA7**
30 A	3	10 kA IR	B	**3CNA8**
40	3	10kA at 240V AC IR	BL	**3CNA9**
50	3	10kA at 240V AC IR	BL	**3CNC1**
60	3	10kA at 240V AC IR	BL	**3CNC2**
100	3	10kA at 240V AC IR	BL	**3CNA4**
25	3	10kA at 240V AC IR	BL	**6EVU8**
35	3	10kA at 240V AC IR	BL	**6EVX9**
45	3	10kA at 240V AC IR	BL	**6FMA8**
70	3	10kA at 240V AC IR	BL	**6FMD4**
80	3	10kA at 240V AC IR	BL	**6FME0**
90	3	10kA at 240V AC IR	BL	**6FME6**
15	3	22kA at 240V AC IR	BL	**6EVT9**
20	3	22kA at 240V AC IR	BL	**6EVU4**
25	3	22kA at 240V AC IR	BL	**6EVX0**
30	3	22kA at 240V AC IR	BL	**6EVX5**
35	3	22kA at 120/240V AC IR	BL	**6EVY1**
40	3	22kA at 120/240V AC IR	BL	**6EVY6**
45	3	22kA at 240V AC IR	BL	**6FMC0**
50	3	22kA at 240V AC IR	BL	**6FMC5**
60	3	22kA at 240V AC IR	BL	**6FMD0**
70	3	22kA at 240V AC IR	BL	**6FMD6**
80	3	22kA at 240V AC IR	BL	**6FME2**
90	3	22kA at 240V AC IR	BL	**6FME8**
100	3	22kA at 240V AC IR	BL	**6EVT4**
Q Series, Plug-In Siemens Miniature Circuit Breakers				
1-Pole, Combination Arc Fault Circuit Interrupter				
15	1	10kA at 120V AC IR	QA	**34AN31**
20	1	10kA at 120V AC IR	QA	**34AN33**
1-Pole, Duplex				
15/15	1	10kA at 120V AC IR	Q	**6DNR5**
15/20	1	10kA at 120V AC IR	Q	**6DNR7**
20/20	1	10kA at 120V AC IR	Q	**6DNR8**
1-Pole, Duplex, Non CTL				
15/15	1	10kA at 120V AC IR	Q	**6DNR6**
20/20	1	10kA at 120V AC IR	Q	**6DNR9**
1-Pole, Ground Fault Circuit Interrupter (Class A - 5mA)				
15	1	10kA at 120V AC IR	QF	**3CNL3**
20	1	10kA at 120V AC IR	QF	**3CNL4**
30	1	10kA at 120V AC IR	QF	**3CNL5**
1-Pole, Standard				
15	1	10kA at 120V AC IR	Q	**3CNE5**
20	1	10kA at 120V AC IR	Q	**3CNE8**
30	1	10kA at 120V AC IR	Q	**3CNF3**
40	1	10kA at 120V AC IR	Q	**3CNF6**
50	1	10kA at 120V AC IR	Q	**3CNF7**
2-Pole, Ground Fault Circuit Interrupter (Class A - 5mA)				
20	1	10kA at 120V AC IR	QF	**3CNL7**
40	1	10kA at 120V AC IR	QF	**3CNL9**
50	1	10kA at 120/240V AC IR	QF	**3AFL1**
60	1	10kA at 120/240V AC IR	QF	**3AFL2**
2-Pole, High Intensity Discharge				
15	1	10kA at 120V AC IR	Q	**3CNG9**
20	1	10kA at 120V AC IR	Q	**3CNH4**
30	1	10kA at 120V AC IR	Q	**3CNH8**
2-Pole, Standard				
15	1	10kA at 120V AC IR	Q	**3CNG7**
20	1	10kA at 120V AC IR	Q	**3CNH1**
30	1	10kA at 120V AC IR	Q	**3CNH6**
40	1	10kA at 120V AC IR	Q	**3CNH9**
50	1	10kA at 120V AC IR	Q	**3CNJ1**
60	1	10kA at 120V AC IR	Q	**3CNJ2**
100	1	10kA at 120V AC IR	Q	**3CNG5**
25	1	10kA at 120V AC IR	Q	**6DNR0**
125	1	10kA at 120V AC IR	Q	**6DNR1**
70	1	10kA at 120V AC IR	Q	**6DNR2**
80	1	10kA at 120V AC IR	Q	**6DNR3**
90	1	10kA at 120V AC IR	Q	**6DNR4**
3-Pole, Standard				
15	3	10kA at 120V AC IR	QP	**3CNJ7**
20	3	10kA at 120V AC IR	Q	**3CNJ8**
30	3	10kA at 120V AC IR	Q	**3CNK1**
40	3	10kA at 120V AC IR	Q	**3CNK4**
50	3	10kA at 120V AC IR	Q	**3CNK6**
60	3	10kA at 120V AC IR	QP	**3CNK7**
100	3	10kA at 120V AC IR	QP	**3CNJ6**



BQD 3-Pole
No. 6FMV8

SIEMENS

BQD (Bolt-On) Circuit Breakers

- 1-pole 277V; 2-pole 277/480V; 3-pole 277/480V
- 14kA IR

Amps	Max. Wire Size	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
15	6 AWG	BQD115	**6FMT3**	BQD215	**6FMU6**	BQD315	**6FMV9**
20	6 AWG	BQD120	**6FMT4**	BQD220	**6FMU7**	BQD320	**6FMW0**
25	6 AWG	BQD125	**6FMT5**	BQD225	**6FMU8**	BQD325	**6FMW1**
30	6 AWG	BQD130	**6FMT6**	BQD230	**6FMU9**	BQD330	**6FMW2**
35	6 AWG	BQD135	**6FMT7**	BQD235	**6FMV0**	BQD335	**6FMW3**
40	6 AWG	BQD140	**6FMT8**	BQD240	**6FMV1**	BQD340	**6FMW4**
45	1/0 AWG	BQD145	**6FMT9**	BQD245	**6FMV2**	BQD345	**6FMW5**
50	1/0 AWG	BQD150	**6FMU0**	BQD250	**6FMV3**	BQD350	**6FMW6**
60	1/0 AWG	BQD160	**6FMU1**	BQD260	**6FMV4**	BQD360	**6FMW7**
70	1/0 AWG	BQD170	**6FMU2**	BQD270	**6FMV5**	BQD370	**6FMW8**
80	1/0 AWG	BQD180	**6FMU3**	BQD280	**6FMV6**	BQD380	**6FMW9**
90	1/0 AWG	BQD190	**6FMU4**	BQD290	**6FMV7**	BQD390	**6FMX0**
100	1/0 AWG	BQD1100	**6FMT2**	BQD2100	**6FMU5**	BQD3100	**6FMV8**



CB211 & 212 Series



CB221 & 222 Series



CB1911 Series



CBC-B Series

EATON BUSSMANN SERIES

Automotive Circuit Breakers

Reset Type	Amps	Voltage	Item No.
Modified	30	12VDC	**5KDL8**
CB221 Series, ATC Footprint			
Automatic	10	12VDC	**5KDL9**
Automatic	15	12VDC	**5KDN0**
Automatic	20	12VDC	**5KDN1**
Automatic	25	12VDC	**5KDN2**
Automatic	30	12VDC	**5KDN3**
CB222 Series, ATC Footprint			
Modified	10	12VDC	**5KDN4**
Modified	15	12VDC	**5KDN5**
Modified	20	12VDC	**5KDN6**
Modified	25	12VDC	**5KDN7**
Modified	30	12VDC	**5KDN8**
CB227 Series, ATC Footprint			
Manual	10	28VDC	**6CJA4**
Manual	15	28VDC	**6CJA5**
Manual	20	28VDC	**6CJA6**
Manual	25	28VDC	**6CJA7**
Manual	30	28VDC	**6CJA8**

Reset Type	Amps	Voltage	Item No.
CB211 Series, ATM Footprint			
Automatic	10	14VDC	**5KDL0**
Automatic	15	14VDC	**5KDL1**
Automatic	20	14VDC	**5KDL2**
Automatic	25	14VDC	**5KDL3**
Automatic	30	14VDC	**6CJA3**
CB212 Series, ATM Footprint			
Modified	10	12VDC	**5KDL4**
Modified	15	12VDC	**5KDL5**
Modified	20	12VDC	**5KDL6**
Modified	25	12VDC	**5KDL7**
CB1911 Series, Maxi Footprint			
Automatic	20	12VDC	**5KDK6**
Automatic	30	12VDC	**5KDK7**
Automatic	40	12VDC	**5KDK8**
Automatic	50	12VDC	**5KDK9**
CBC-B Series, Stud Mount with Bracket			
Automatic	10	14VDC	**6CJC6**
Automatic	15	14VDC	**6CJC7**
Automatic	20	14VDC	**6CJC8**
Automatic	25	14VDC	**6CJC9**
Automatic	30	14VDC	**6CJD0**
Automatic	40	14VDC	**6CJD1**
Automatic	50	14VDC	**6CJD2**
CBC Series, Stud Mount			
Automatic	10	14VDC	**6CJA9**
Automatic	15	14VDC	**6CJC0**
Automatic	20	14VDC	**6CJC1**
Automatic	25	14VDC	**6CJC2**
Automatic	30	14VDC	**6CJC3**
Automatic	40	14VDC	**6CJC4**
Automatic	50	14VDC	**6CJC5**
CBP-BA Series, Stud Mount with Bracket			
Automatic	20	14VDC	**6CJD3**
Automatic	25	14VDC	**6CJD4**

Reset Type	Amps	Voltage	Item No.
Automatic	30	14VDC	**6CJD5**
Automatic	40	14VDC	**6CJD6**
Automatic	50	14VDC	**6CJD7**
CBT-M Series, For Mack Trucks			
Modified	10	12VDC	**6CJD8**
Modified	15	12VDC	**6CJD9**
Modified	20	12VDC	**6CJE0**
Modified	25	12VDC	**6CJE1**
Modified	30	12VDC	**6CJE2**
CBT-N Series, For Navistar Trucks			
Modified	15	12VDC	**6CJE3**
Modified	20	12VDC	**6CJE4**
Modified	25	12VDC	**6CJE5**
Modified	30	12VDC	**6CJE6**
CB185 Series, Waterproof			
Manual	50	48VDC	**6CHZ5**
Manual	60	48VDC	**6CHZ6**
Manual	70	48VDC	**6CHZ7**
Manual	80	48VDC	**6CHZ8**
Manual	100	48VDC	**6CHZ9**
Manual	120	48VDC	**6CJA0**
Manual	135	48VDC	**6CJA1**
Manual	150	48VDC	**6CJA2**

GHB Bolt-On Circuit Breakers

EATON

These panelboard breakers are suitable for reverse-feed applications. 480VAC. UL Listed and CSA Certified.

Amps	Max. Wire Size	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
15	10 AWG	GHB1015	**46MX30**	GHB2015	**46MX37**	GHB3015	**46MX48**
20	10 AWG	GHB1020	**46MX31**	GHB2020	**46MX38**	GHB3020	**46MX49**
25	1/0 AWG	GHB1025	**46MX32**	GHB2025	**46MX39**	GHB3025	**46MX50**
30	1/0 AWG	GHB1030	**46MX33**	GHB2030	**46MX40**	GHB3030	**46MX51**
35	1/0 AWG	GHB1035	**46MX34**	—	—	GHB3035	**46MX52**
40	1/0 AWG	GHB1040	**46MX35**	GHB2040	**46MX41**	GHB3040	**46MX53**
45	1/0 AWG	—	—	—	—	GHB3045	**46MX54**
50	1/0 AWG	GHB1050	**46MX36**	GHB2050	**46MX42**	GHB3050	**46MX55**
60	1/0 AWG	—	—	GHB2060	**46MX43**	GHB3060	**46MX56**
70	1/0 AWG	—	—	GHB2070	**46MX44**	GHB3070	**46MX57**
80	1/0 AWG	—	—	GHB2080	**46MX45**	GHB3080	**46MX58**
90	1/0 AWG	—	—	GHB2090	**46MX46**	GHB3090	**46MX59**
100	1/0 AWG	—	—	GHB2100	**46MX47**	GHB3100	**46MX60**



No. 46MX30

Molded Case Series C Circuit Breakers

EATON

Designed with standard load terminals and suitable for reverse-feed use. Thermal magnetic trip type. UL Listed and CSA Certified.

Amps	Max. Wire Size	Mfr. Model	Item No.
EHD Series			
1-Pole, 277V AC			
15 A	1/0 AWG	EHD1015	**46MW70**
20 A	1/0 AWG	EHD1020	**46MW71**
25 A	1/0 AWG	EHD1025	**46MW72**
30 A	1/0 AWG	EHD1030	**46MW73**
40 A	1/0 AWG	EHD1040	**46MW74**
50 A	1/0 AWG	EHD1050	**46MW75**
2-Pole, 480V AC			
15 A	1/0 AWG	EHD2015	**46MW76**
20 A	1/0 AWG	EHD2020	**46MW77**
25 A	1/0 AWG	EHD2025	**46MW78**
30 A	1/0 AWG	EHD2030	**46MW79**
35 A	1/0 AWG	EHD2035	**46MW80**
40 A	1/0 AWG	EHD2040	**46MW81**
50 A	1/0 AWG	EHD2050	**46MW82**
60 A	1/0 AWG	EHD2060	**46MW83**
70 A	1/0 AWG	EHD2070	**46MW84**
80 A	1/0 AWG	EHD2080	**46MW85**
3-Pole, 480V AC			
15 A	1/0 AWG	EHD3015	**46MW86**
20 A	1/0 AWG	EHD3020	**46MW87**
25 A	1/0 AWG	EHD3025	**46MW88**
30 A	1/0 AWG	EHD3030	**46MW89**
35 A	1/0 AWG	EHD3035	**46MW90**
40 A	1/0 AWG	EHD3040	**46MW91**
50 A	1/0 AWG	EHD3050	**46MW92**
60 A	1/0 AWG	EHD3060	**46MW93**
70 A	1/0 AWG	EHD3070	**46MW94**
80 A	1/0 AWG	EHD3080	**46MW95**
90 A	1/0 AWG	EHD3090	**46MW96**
100 A	1/0 AWG	EHD3100	**46MW97**
FD Series			
1-Pole, 347V AC			
20 A	1/0 AWG	FD1020	**46MW98**
30 A	1/0 AWG	FD1030	**46MW99**
2-Pole, 600V AC			
15 A	1/0 AWG	FD2015	**46MX01**
20 A	1/0 AWG	FD2020	**46MX02**
25 A	1/0 AWG	FD2025	**46MX03**
30 A	1/0 AWG	FD2030	**46MX04**
40 A	1/0 AWG	FD2040	**46MX05**
50 A	1/0 AWG	FD2050	**46MX06**
60 A	1/0 AWG	FD2060	**46MX07**
70 A	1/0 AWG	FD2070	**46MX08**
80 A	1/0 AWG	FD2080	**46MX09**
90 A	1/0 AWG	FD2090	**46MX10**
100 A	1/0 AWG	FD2100	**46MX11**
3-Pole, 600V AC			
15 A	1/0 AWG	FD3015	**46MX12**
20 A	1/0 AWG	FD3020	**46MX13**
25 A	1/0 AWG	FD3025	**46MX14**
30 A	1/0 AWG	FD3030	**46MX15**
35 A	1/0 AWG	FD3035	**46MX16**
40 A	1/0 AWG	FD3040	**46MX17**
45 A	1/0 AWG	FD3045	**46MX18**
50 A	1/0 AWG	FD3050	**46MX19**
60 A	1/0 AWG	FD3060	**46MX20**
70 A	1/0 AWG	FD3070	**46MX21**
80 A	1/0 AWG	FD3080	**46MX22**
90 A	1/0 AWG	FD3090	**46MX23**
100 A	1/0 AWG	FD3100	**46MX24**
125 A	1/0 AWG	FD3125	**46MX25**
150 A	1/0 AWG	FD3150	**46MX26**
175 A	1/0 AWG	FD3175	**46MX27**
200 A	1/0 AWG	FD3200	**46MX28**
225 A	1/0 AWG	FD3225	**46MX29**
HFD Series			
1-Pole, 277V AC			
20 A	1/0 AWG	HFD1020	**46MX63**
30 A	1/0 AWG	HFD1030	**46MX64**
2-Pole, 600V AC			
15 A	1/0 AWG	HFD2015	**46MX65**
20 A	1/0 AWG	HFD2020	**46MX66**
30 A	1/0 AWG	HFD2030	**46MX67**
3-Pole, 600V AC			
15 A	1/0 AWG	HFD3015	**46MX68**
20 A	1/0 AWG	HFD3020	**46MX69**
25 A	1/0 AWG	HFD3025	**46MX70**
30 A	1/0 AWG	HFD3030	**46MX71**
40 A	1/0 AWG	HFD3040	**46MX72**
50 A	1/0 AWG	HFD3050	**46MX73**
60 A	1/0 AWG	HFD3060	**46MX74**
70 A	1/0 AWG	HFD3070	**46MX75**
80 A	1/0 AWG	HFD3080	**46MX76**
90 A	1/0 AWG	HFD3090	**46MX77**
100 A	1/0 AWG	HFD3100	**46MX78**
125 A	1/0 AWG	HFD3125	**46MX79**
150 A	1/0 AWG	HFD3150	**46MX80**
175 A	1/0 AWG	HFD3175	**46MX81**
200 A	1/0 AWG	HFD3200	**46MX82**
225 A	1/0 AWG	HFD3225	**46MX83**



No. 46MW70



No. 46MX01



No. 46MX68

Amps	Max. AIR Rating	Mfr. Model	Item No.	Max. AIR Rating	Mfr. Model	Item No.
EG Series						
15 A	35kA at 240V AC	EGE3015FFG	**46MY17**	100kA at 240V AC	EGH3015FFG	**46MY29**
20 A	35kA at 240V AC	EGE3020FFG	**46MY18**	100kA at 240V AC	EGH3020FFG	**46MY30**
25 A	35kA at 240V AC	EGE3025FFG	**46MY19**	100kA at 240V AC	EGH3025FFG	**46MY31**
30 A	35kA at 240V AC	EGE3030FFG	**46MY20**	100kA at 240V AC	EGH3030FFG	**46MY32**
35 A	35kA at 240V AC	EGE3035FFG	**46MY21**	—	—	—
40 A	35kA at 240V AC	EGE3040FFG	**46MY22**	100kA at 240V AC	EGH3040FFG	**46MY33**
50 A	35kA at 240V AC	EGE3050FFG	**46MY23**	100kA at 240V AC	EGH3050FFG	**46MY34**
60 A	35kA at 240V AC	EGE3060FFG	**46MY24**	100kA at 240V AC	EGH3060FFG	**46MY35**
70 A	35kA at 240V AC	EGE3070FFG	**46MY25**	100kA at 240V AC	EGH3070FFG	**46MY36**
80 A	35kA at 240V AC	EGE3080FFG	**46MY26**	—	—	—
100 A	35kA at 240V AC	EGE3100FFG	**46MY27**	100kA at 240V AC	EGH3100FFG	**46MY37**
125 A	35kA at 240V AC	EGE3125FFG	**46MY28**	100kA at 240V AC	EGH3125FFG	**46MY38**
JG Series						
100 A	25kA at 240V AC	JGE3100FAG	**46MY53**	100kA at 480V AC	JGH3100FAG	**46MY58**
150 A	25kA at 240V AC	JGE3150FAG	**46MY54**	100kA at 480V AC	JGH3150FAG	**46MY59**
175 A	25kA at 240V AC	JGE3175FAG	**46MY55**	100kA at 480V AC	JGH3175FAG	**46MY60**
200 A	25kA at 240V AC	JGE3200FAG	**46MY56**	100kA at 480V AC	JGH3200FAG	**46MY61**
250 A	25kA at 240V AC	JGE3250FAG	**46MY57**	100kA at 480V AC	JGH3250FAG	**46MY62**
LG Series						
350 A	65kA at 240V AC	LGE3350FAG	**46MY68**	100kA at 480V AC	LGH3350FAG	**46MY72**
400 A	65kA at 240V AC	LGE3400FAG	**46MY69**	100kA at 480V AC	LGH3400FAG	**46MY73**
500 A	65kA at 240V AC	LGE3500FAG	**46MY70**	100kA at 480V AC	LGH3500FAG	**46MY74**
600 A	65kA at 240V AC	LGE3600FAG	**46MY71**	100kA at 480V AC	LGH3600FAG	**46MY75**



No. 46MY68

EATON

Molded Case Series G Circuit Breakers

These 3-pole breakers are suitable for global applications and feature the ability to add alarm circuits and auxiliary contacts easily to the unit. Thermal magnetic trip type. UL Listed and CSA Certified.



Push-Button Style
No. 4VA62



Push-to-Reset Style
No. 10C603



Rocker Style
No. 4VA66



Toggle Style
No. 3XC62

Carling Technologies®

Panel-Mount Circuit Breakers

THERMAL TRIP

- Operating temp.: -10° to 60°C
- Functionally equal: ETA, Joemex, and MPI

Compact, precision-design breakers have few moving parts—a cost-effective alternative to hydraulic/magnetic breakers. They offer extremely reliable circuit protection with a push-to-reset function. 50/60 Hz. UL Recognized.

MAGNETIC TRIP

- Functionally equal: Heinemann, Sensata, Airpax, and Potter & Brumfield

Designed for world market applications requiring extra insulation and tongue/groove half-shell construction. Series trip design. Trip point is not affected by temperature fluctuations. UL Recognized and CSA Certified.

Amps	No. of Poles	AC Volt Rating	DC Volt Rating	Mounting Type	Terminal Connec.	L	W	D	Mfr. Model	Item No.
Push-Button Style, Thermal Trip										
5 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-053-27G3N-W-A/05	**4VA62**
5 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-053-27E3N-W-A/05	**4VA75**
5 A	1	125/250V AC	32V DC	11mm Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-053-11C3N-W-A/05	**4VA71**
10 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-103-27G3N-W-A/10	**4VA63**
10 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-103-27E3N-W-A/10	**4VA76**
10 A	1	125/250V AC	32V DC	11mm Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-103-11C3N-W-A/10	**4VA72**
15 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-153-27G3N-W-A/15	**4VA64**
15 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-153-27E3N-W-A/15	**4VA78**
15 A	1	125/250V AC	32V DC	11mm Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-153-11C3N-W-A/15	**4VA73**
20 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-203-27G3N-W-A/20	**4VA65**
20 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-203-27E3N-W-A/20	**4VA77**
20 A	1	125/250V AC	32V DC	11mm Collar	¼ in Tab	1.15 in	0.55 in	1.78 in	CMB-203-11C3N-W-A/20	**4VA74**
30 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-303-27E3N-W-A/30	**4VA79**
40 A	1	125/250V AC	32V DC	⅜ in Collar	¼ in Tab	1.38 in	0.57 in	2.31 in	CLB-403-27E3N-W-A/40	**4VA80**
Push-to-Reset Style, Magnetic Trip										
2 A	1	250V AC	80V DC	Snap-In	¼ in Tab	1.38 in	0.68 in	1.85 in	MU1-B-34-420-1-C21-B-E	**10C603**
5 A	1	250V AC	80V DC	Snap-In	¼ in Tab	1.38 in	0.68 in	1.85 in	MU1-B-34-450-1-C21-B-E	**10C604**
10 A	2	250V AC	80V DC	Snap-In	¼ in Tab	1.38 in	1.3 in	1.85 in	MU2-B-34-610-1-A21-B-E	**10C605**
Rocker Style, Magnetic Trip										
5 A	1	250V AC	32V DC	Snap-In	¼ in Tab	1.56 in	0.77 in	1.9 in	MA1-B-34-450-1-A26-B-E	**10C598**
7.5 A	2	250V AC	32V DC	Snap-In	¼ in Tab	1.56 in	1.39 in	1.9 in	MA2-B-34-475-1-A16-B-E	**10C601**
10 A	1	250V AC	32V DC	Snap-In	¼ in Tab	1.56 in	0.77 in	1.9 in	MA1-B-34-610-1-A26-B-E	**10C599**
Rocker Style, Thermal Trip										
5 A	1	125/250V AC	50V DC	Snap-In Bezel	¼ in Tab	0.76 in	0.76 in	2.23 in	CTB-B-B-05	**4VA66**
7 A	1	125/250V AC	50V DC	Snap-In Bezel	¼ in Tab	0.76 in	0.76 in	2.23 in	CTB-B-B-07	**4VA67**
10 A	1	125/250V AC	50V DC	Snap-In Bezel	¼ in Tab	0.76 in	0.76 in	2.23 in	CTB-B-B-10	**4VA68**
12 A	1	125/250V AC	50V DC	Snap-In Bezel	¼ in Tab	0.76 in	0.76 in	2.23 in	CTB-B-B-12	**4VA69**
15 A	1	125/250V AC	50V DC	Snap-In Bezel	¼ in Tab	2.23 in	0.76 in	1.9 in	CTB-B-B-15	**4VA70**
Toggle Style, Magnetic Trip										
5 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-450 -5D1-C	**10C588**
7.5 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-475 -5D1-C	**10C589**
10 A	1	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	0.75 in	2.12 in	BA1-B0-34-610-111-D	**3XC62**
10 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-610 -5D1-C	**10C590**
10 A	1	250V AC	65V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.69 in	AA1-B0-34-610 -5D1-I	**10C594**
10 A	2	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	1.5 in	2.12 in	BA2-B0-34-610-111-D	**3XC66**
15 A	1	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	0.75 in	2.12 in	BA1-B0-34-615-111-D	**3XC63**
15 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-615 -5D1-C	**10C591**
15 A	1	250V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.69 in	AA1-B0-34-615 -5D1-I	**10C595**
15 A	2	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	1.5 in	2.12 in	BA2-B0-34-615-111-D	**3XC67**
20 A	1	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	0.75 in	2.12 in	BA1-B0-34-620-111-D	**3XC64**
20 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-620 -5D1-C	**10C592**
20 A	2	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	1.5 in	2.12 in	BA2-B0-34-620-111-D	**3XC68**
25 A	1	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	0.75 in	2.09 in	BA1-B0-34-625-121-D	**10C606**
30 A	1	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	0.75 in	2.12 in	BA1-B0-34-630-111-C	**3XC65**
30 A	1	240/277V AC	125V DC	Threaded Insert	#10-32 Stud	2.5 in	0.75 in	2.48 in	CA1-B0-34-630-111-C	**3XC70**
30 A	1	250/277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.03 in	AA1-B0-34-630 -5D1-C	**10C593**
30 A	1	250V AC	65V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.69 in	AA1-B0-34-630 -5D1-I	**10C596**
30 A	2	277V AC	80V DC	Threaded Insert	¼ in Tab	2.0 in	1.5 in	2.12 in	BA2-B0-34-630-111-C	**3XC69**
30 A	2	240/277V AC	125V DC	Threaded Insert	#10-32 Stud	2.5 in	1.52 in	2.48 in	CA2-B0-34-630-111-C	**3XC73**
40 A	1	240/277V AC	125V DC	Threaded Insert	#10-32 Stud	2.5 in	0.75 in	2.48 in	CA1-B0-34-640-111-C	**3XC71**
40 A	1	277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.12 in	BA1-B0-34-640-521-E	**10C607**
40 A	2	240/277V AC	125V DC	Threaded Insert	#10-32 Stud	2.5 in	1.52 in	2.48 in	CA2-B0-34-640-111-C	**3XC74**
40 A	2	277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	1.55 in	2.12 in	BA2-B0-34-640-521-C	**10C608**
50 A	1	125V AC	65V DC	Threaded Insert	#10-32 Screw	2.0 in	0.75 in	2.69 in	AA1-B0-34-650 -5D1-I	**10C597**
50 A	1	250V AC	80V DC	Threaded Insert	#10-32 Stud	2.56 in	0.75 in	2.52 in	CA1-B0-34-650-121-D	**10C610**
50 A	2	277V AC	80V DC	Threaded Insert	#10-32 Screw	2.0 in	1.55 in	2.12 in	BA2-B0-34-650-521-E	**10C609**
50 A	2	250V AC	80V DC	Threaded Insert	#10-32 Stud	2.56 in	1.52 in	2.52 in	CA2-B0-34-650-121-D	**10C613**
60 A	1	240/277V AC	125V DC	Threaded Insert	#1/4-20 Stud	2.5 in	0.75 in	2.48 in	CA1-B0-34-660-311-C	**3XC72**
60 A	2	250V AC	80V DC	Threaded Insert	#1/4-20 Screw	2.5 in	1.5 in	2.53 in	CA2-B0-34-660-311-C	**3XC75**
70 A	1	240/277V AC	125V DC	Threaded Insert	#1/4-20 Stud	2.56 in	0.75 in	2.52 in	CA1-B0-34-670-321-D	**10C611**
70 A	2	240/277V AC	125V DC	Threaded Insert	#1/4-20 Stud	2.56 in	1.52 in	2.52 in	CA2-B0-34-670-321-D	**10C614**
100 A	1	250V AC	80V DC	Threaded Insert	#1/4-20 Stud	2.56 in	0.75 in	2.52 in	CA1-B0-34-810-321-R	**10C612**



No. 3YMR7

Connecticut Electric
Quality Electrical Products • Since 1906

Replacement Circuit Breakers for Obsolete Load Centers

- 1-phase
- 120/240VAC
- 10kA IR

Circuit Breakers have been tested in accordance with the National Electrical Code and the Standard for Molded-Case Circuit Breakers Enclosures, ANSI/UL 489, 10th Edition. They comply with standards for Endurance, Interrupting Ability, Voltage Withstand, and performance under various types of loads and overloads. HACR and SWD rated. Meet or exceed ANSI/UL 489 Standard.

Amps	Brand	1-POLE W	1-POLE Item No.	2-POLE W	2-POLE Item No.
For Use With Zinsco Load Centers, Series UBIZ					
15	Zinsco	0.75 in	**3YMV9**	1.5 in	**3YMW2**
15	Zinsco	—	—	0.75 in	**3YMX2**
15/15	Zinsco	0.75 in	**3YMW9**	—	—
20	Zinsco	0.75 in	**3YMW1**	1.5 in	**3YMW3**
20	Zinsco	—	—	0.75 in	**3YMX3**
20/20	Zinsco	0.75 in	**3YMX1**	—	—
30	Zinsco	0.75 in	**6YEY9**	1.5 in	**3YMW4**
30	Zinsco	—	—	0.75 in	**3YMX4**
35	Zinsco	—	—	0.75 in	**6YEY7**
40	Zinsco	0.75 in	**6YEZ0**	1.5 in	**3YMW5**
40	Zinsco	—	—	0.75 in	**3YMX5**
45	Zinsco	—	—	0.75 in	**6YEY8**
50	Zinsco	0.75 in	**6YEZ1**	1.5 in	**3YMW6**
50	Zinsco	—	—	0.75 in	**3YMX6**
100	Zinsco	—	—	1.5 in	**3YMW7**
125	Zinsco	—	—	1.5 in	**3YMW8**
For Use With Zinsco Load Centers, Series UBITBFP					
150	Zinsco	—	—	3.0 in	**3YMX7**
200	Zinsco	—	—	3.0 in	**3YMX8**
For Use With Zinsco Load Centers, Series UBI					
15 A	Zinsco	0.75 in	**56DY31**	1.5 in	**56DY34**
20 A	Zinsco	0.75 in	**56DY32**	1.5 in	**56DY35**
30 A	Zinsco	0.75 in	**56DY33**	1.5 in	**56DY36**
40 A	Zinsco	—	—	1.5 in	**56DY37**
50 A	Zinsco	—	—	1.5 in	**56DY38**
60 A	Zinsco	—	—	1.5 in	**56DY39**
70 A	Zinsco	—	—	1.5 in	**56DY40**
80 A	Zinsco	—	—	1.5 in	**56DY41**
90 A	Zinsco	—	—	1.5 in	**56DY42**
100 A	Zinsco	—	—	1.5 in	**56DY43**
125 A	Zinsco	—	—	1.5 in	**56DY44**
For Use With Wadsworth Load Centers, Series UBIA					
15	Wadsworth	1.0 in	**3YMX9**	2.0 in	**3YMY2**
20	Wadsworth	1.0 in	**3YMY1**	2.0 in	**3YMY3**
30	Wadsworth	1.0 in	**15F784**	2.0 in	**3YMY4**
40	Wadsworth	1.0 in	**15F785**	2.0 in	**3YMY5**
50	Wadsworth	—	—	2.0 in	**3YMY6**
70	Wadsworth	—	—	2.0 in	**15F787**
100	Wadsworth	—	—	2.0 in	**3YMY7**
For Use With Pushmatic Load Centers, Series UBIP					
30	Pushmatic	1.81 in	**6YEY3**	—	—
For Use With Pushmatic and Bulldog Load Centers, Series UBIP					
15	Pushmatic	1.5 in	**3YMR7**	1.5 in	**3YMR9**
15/15	Pushmatic	1.5 in	**3YMT6**	—	—
20	Pushmatic	1.5 in	**3YMR8**	1.5 in	**3YMT1**
20/20	Pushmatic	1.5 in	**3YMT7**	—	—
30	Pushmatic	—	—	1.5 in	**3YMT2**
40	Pushmatic	—	—	1.5 in	**3YMT3**
50	Pushmatic	—	—	1.5 in	**3YMT4**
100	Pushmatic	—	—	1.5 in	**3YMT5**
For Use With Federal Pacific NBLP Commercial Panels, Series UBIF					
15 A	Federal Pacific	1.0 in	**56DY23**	—	—
20 A	Federal Pacific	1.0 in	**56DY24**	2.0 in	**56DY25**
30 A	Federal Pacific	1.0 in	**56DY30**	2.0 in	**56DY26**
40 A	Federal Pacific	—	—	2.0 in	**56DY27**
50 A	Federal Pacific	—	—	2.0 in	**56DY28**
60 A	Federal Pacific	—	—	2.0 in	**56DY29**
70 A	Federal Pacific	—	—	2.0 in	**56DY45**
80 A	Federal Pacific	—	—	2.0 in	**56DY46**
90 A	Federal Pacific	—	—	2.0 in	**56DY47**
100 A	Federal Pacific	—	—	2.0 in	**56DY48**
125 A	Federal Pacific	—	—	2.0 in	**56DY49**
For Use With Federal Pacific Load Centers, Series UBIF					
15	Federal Pacific	0.5 in	**3YMP2**	1.0 in	**3YMP4**
15	Federal Pacific	1.0 in	**3YMP9**	2.0 in	**3YMR2**
20	Federal Pacific	0.5 in	**3YMP3**	1.0 in	**3YMP5**
20	Federal Pacific	1.0 in	**3YMR1**	2.0 in	**3YMR3**
30	Federal Pacific	1.0 in	**6YEY4**	2.0 in	**3YMR4**
30	Federal Pacific	0.5 in	**6YEY0**	1.0 in	**3YMP6**
40	Federal Pacific	0.5 in	**6YEY1**	1.0 in	**3YMP7**
40	Federal Pacific	1.0 in	**6YEY5**	2.0 in	**3YMR5**
50	Federal Pacific	1.0 in	**6YEY6**	2.0 in	**3YMR6**
50	Federal Pacific	0.5 in	**6YEY2**	1.0 in	**3YMP8**
60	Federal Pacific	—	—	2.0 in	**15F790**
For Use With Challenger and Thomas and Betts Load Centers, Series UBITBA Right					
15	Challenger	0.5 in	**3YMN3** †	—	—
20	Challenger	0.5 in	**3YMN5** †	—	—
30	Challenger	0.5 in	**15F783** †	—	—
For Use With Challenger and Thomas and Betts Load Centers, Series UBITBA Left					
15	Challenger	0.5 in	**3RAL4** *	—	—
20	Challenger	0.5 in	**3YMN4** *	—	—
30	Challenger	0.5 in	**15F782** *	—	—
For Use With Challenger and Thomas and Betts Load Centers, Series UBITBA					
15	Challenger	—	—	1.0 in	**3YMN6**
20	Challenger	—	—	1.0 in	**3YMN7**
30	Challenger	—	—	1.0 in	**3YMN8**
40	Challenger	—	—	1.0 in	**3YMN9**
50	Challenger	—	—	1.0 in	**3YMP1**

** Left clip. † Right clip.*

Surge Protection Devices (SPDs)

SOLAHD

- Compact and narrow design
- Low clamping levels

Provide point-of-use, all-mode protection against damaging transients at the dedicated equipment level. Install in electronic control cabinets on the factory floor or at remote locations. Provide sine wave tracking, LED status indication, form C dry contacts.



No. 6NN78

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Item No.
120V	1	L-G, L-L, L-N, N-G	150V	500V	3kA	STV25K-10S	**6NN78**
240VAC	1	L-G, L-L, L-N, N-G	275VAC	900V	3kA	STV25K-24S	**6NN79**
480VAC Delta	3	L-G, L-L	575/640VAC	2000V (L-G, L-L)	3kA	STV100K48D	**19L440**

SQUARE D by Schneider Electric



No. 19H479

Surge Protection Devices (SPDs)

Enclosure NEMA Rating	Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Mfr. Model	Item No.
SPD Type 1									
4X	120/240VAC	1	L-L, L-N	150VAC	700V (L-N), 1200V (L-L)	10kA	36kA	SDSA1175	**3XB86**
4X	120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	600V (L-N), 700V (L-G), 1000V (L-L, N-G)	10kA	80kA	HEPD80	**22P065**
4X	347/600VAC Wye	3	L-L, L-N	510VAC	1800V (L-N), 3000V (L-L)	10kA	40kA	SDSA3650	**3XB87**
4X	600VAC Delta	3	L-L	1020VAC	3000V (L-L)	10kA	40kA	SDSA3650D	**19H479**

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	MAX. SURGE CURRENT PER PHASE 50kA Item No.	80kA Item No.	100kA Item No.	36kA Item No.	40kA Item No.
SPD Hardwired, NEMA 4X, Includes Audible/LED Alarm, Overvoltage Technology, Sine Wave Tracking											
120/240VAC High Leg Delta	3	H-G, H-L, H-N, L-G, L-L, L-N, N-G	150/270VAC	700V (N-G), 1000V (L-N), 1200V (H-N, L-G), 1500V (H-G, L-L), 1800V (H-L)	20kA	TVS3HWA_X	**30EG13**	**30EG14**	**30EG12**	—	—
240VAC Delta	3	L-G, L-L	300VAC	1500V (L-G, L-L)	20kA	TVS6HWA_X	**30EG22**	**30EG23**	**30EG21**	—	—
480VAC Delta	3	L-G, L-L	640VAC	2500V (L-G, L-L)	20kA	TVS5HWA_X	**30EG19**	**30EG20**	**30EG18**	—	—
600VAC Delta	3	L-G, L-L	840VAC	3000V (L-G, L-L)	20kA	TVS9HWA_X	**30EG28**	**30EG29**	**30EG27**	—	—
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	700V (N-G), 900V (L-N), 1200V (L-G), 1500V (L-L)	20kA	TVS2HWA_X	**30EG10**	**30EG11**	**30EG09**	—	—
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (N-G), 900V (L-N), 1200V (L-G), 1500V (L-L)	20kA	TVS1HWA_X	**30EG07**	**30EG08**	**30EG06**	—	—
347/600VAC Wye	3	L-G, L-L, L-N, N-G	420VAC	1500V (L-N, N-G), 2500V (L-G), 3000V (L-L)	20kA	TVS8HWA_X	**30EG25**	**30EG26**	**30EG24**	—	—
480/277VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1000V (N-G), 1200V (L-N), 2000V (L-G), 2500V (L-L)	20kA	TVS4HWA_X	**30EG16**	**30EG17**	**30EG15**	—	—
SPD Type 1											
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	600V (L-N), 700V (L-G), 1000V (L-L, N-G)	10kA	HEPD_	—	**22P065**	—	—	—
600VAC Delta	3	L-L	1020VAC	3000V (L-L)	10kA	SDSA36_D	—	—	—	—	**19H479**
120/240VAC	1	L-L, L-N	150VAC	700V (L-N), 1200V (L-L)	10kA	SDSA1175	—	—	—	**3XB86**	—
347/600VAC Wye	3	L-L, L-N	510VAC	1800V (L-N), 3000V (L-L)	10kA	SDSA36_	—	—	—	—	**3XB87**

EATON

Surge Protection Devices (SPDs)

Service entrance surge protection provides AC power protection, and LED status indication for indoor/outdoor applications. Connect to the outside of any UL-approved loadcenter. Base Mount feature thermally-protected metal oxide varistors for high energy capacity. Small size allows device to be installed close to the equipment being protected.



No. 30UJ07



No. 6YTP2

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Mfr. Model	Item No.
Panelboard Mount, NEMA 1								
24VDC	1	—	30VAC/DC	—	3kA	6kA	AGCF02410-DIN	**30UJ08**
120VAC	1	L-G, L-N, N-G	150VAC	500V (L-G, L-N, N-G)	5kA	40kA	AGCF12010-DIN	**30UJ07**
240VAC	1	L-G, L-N, N-G	275VAC	800V (L-N), 900V (L-G, N-G)	3kA	30kA	AGCF24010-DIN	**30UJ09**
Loadcenter Mount, NEMA 4								
120/240VAC	1	L-G, L-L, L-N, N-G	150/300VAC	600V (L-G, L-N), 800V (N-G), 1000V (L-L)	5kA	36 kA	CHSPT2SURGE	**6YTP2**
120/240VAC	1	L-G, L-L, L-N, N-G	150/300VAC	600V (L-G, L-N), 800V (N-G), 1000V (L-L)	20kA	108kA	CHSPT2ULTRA	**6YTP4**
DIN Rail Mount, NEMA 1								
120VAC	1	L-G, L-N, N-G	150VAC	330V (L-G, N-G), 400V (L-N)	10A	60kA	AGPH12010	**30UJ04**
120VAC	1	L-G, L-N, N-G	150VAC	330V (L-G, N-G), 400V (L-N)	15A	60kA	AGPH12015	**30UJ05**
120VAC	1	L-G, L-N, N-G	150VAC	330V (L-G, N-G), 400V (L-N)	20A	60kA	AGPH12020	**30UJ06**
Base Mount, NEMA 4X, Includes ¾" Conduit Fitting								
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (L-N), 800V (N-G), 1200V (L-G, L-L)	20kA	50kA	CVX050-240S	**5RAA5**
120/240VAC	1	L-G, L-L	150VAC	700V (L-N, N-G), 800V (L-G), 1200V (L-L)	20kA	100kA	CVX100-240S	**5RAC0**
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	600V (L-N), 700V (L-G, N-G), 1000V (L-L)	20kA	100kA	CVX100-208Y	**5RAA8**
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G), 1800V (L-L)	20kA	100kA	CVX100-240D	**5RAA9**
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-G, L-N, N-G), 1800V (L-L)	20kA	100kA	CVX100-480Y	**5RAC2**
480VAC Delta	3	L-G, L-L	550VAC	1800V (L-G), 3000V (L-L)	20kA	50kA	CVX050-480D	**5RAA6**

SENTREX Power & Data Quality Systems

Hardwired Surge Protection Devices (SPDs)

- NEMA rated 4X
- 80kA (PA) or 160kA (PB) max. surge current protection per phase
- Short circuit rating of 10kA
- UL 1449 3rd Edition



No. 19D592

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Item No.
120/240VAC	1	L-G, L-L, L-N, N-G	150/300VAC	700V (N-G), 800V (L-N), 1200V (L-G), 1500V (L-L)	10kA	PB120T	**19D592**
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150/300VAC	700V (N-G), 800V (L-G, L-N), 1500V (L-L)	10kA	PB120Y	**19D591**
120/240VAC High Leg Delta	3	H-G, H-L, H-N, L-G, L-L, L-N, N-G	150/300VAC	800V (L-N, N-G), 1200V (H-N, L-G), 1500V (H-G, L-L), 1800V (H-L)	10kA	PB240DCT	**19D593**
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320/640VAC	1200V (L-L, L-N, N-G), 2000V (L-G)	10kA	PB277Y	**19D594**


No. 18K864


No. 18K874


No. 18K853


No. 6DNY4


No. 19T311


No. 13W846


No. 19T319

ERICO® SIEMENS

Surge Protection Devices (SPDs)

SIEMENS, UL 3RD EDITION

Siemens Transient Protection System (TPS3) is a complete line of hard wired surge protection solutions designed to provide robust surge protection for your electrical and electronic equipment. Most SPDs carry UL's highest I-n rating of 20kA with surge current capacities ranging from 50 to 300kA. Suitable for commercial, industrial, and residential SPDs. See the table below for surge current ranges based upon the average ratings specified by US consulting engineers.

ERICO

Compact models can be directly mounted to panel and installed in small spaces. LED status monitoring. Modular models allow individual modules and fuses to be field-replaceable. Built-in disconnect and fusing eliminates the need for external fusing.

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Brand	Mfr. Model	Item No.	
NEMA 1, 3R, 4, 12, Surge Counter										
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	200kA	Siemens	TPS3A12200X02	**19T307**	
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	300kA	Siemens	TPS3A12300XD2	**19T308**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	200kA	Siemens	TPS3C12200X02	**19T303**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	300kA	Siemens	TPS3C12300XD2	**19T304**	
120/240VAC High Leg Delta	3	L-G, L-L, L-N, N-G	150/320VAC	700V (N-G), 700/1200V (L-G, L-N), 1800V (L-L)	20kA	200kA	Siemens	TPS3B12200X02	**19T305**	
120/240VAC High Leg Delta	3	L-G, L-L, L-N, N-G	150/320VAC	700V (N-G), 700/1200V (L-G, L-N), 1800V (L-L)	20kA	300kA	Siemens	TPS3B12300XD2	**19T306**	
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G, L-L)	20kA	200kA	Siemens	TPS3D12200X02	**19T298**	
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G, L-L)	20kA	300kA	Siemens	TPS3D12300XD2	**19T299**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	200kA	Siemens	TPS3E12200X02	**19T309**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	300kA	Siemens	TPS3E12300XD2	**19T310**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G, L-L)	10kA	200kA	Siemens	TPS3F12200X02	**19T301**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G, L-L)	10kA	300kA	Siemens	TPS3F12300XD2	**19T302**	
NEMA 4, Flush/Surface										
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	600V (L-N, N-G), 700V (L-G), 1000V (L-L)	40kA	100kA	Nvent Erico	TDX100C120/208	**18K854**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	600V (L-N, N-G), 700V (L-G), 1000V (L-L)	50kA	100kA	Nvent Erico	TDX100M120/208	**18K858**	*
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	600V (L-G, L-N, N-G), 1000V (L-L)	80kA	100kA	Nvent Erico	TDX200C120/208	**18K864**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	600V (L-G, L-N, N-G), 1000V (L-L)	100kA	200kA	Nvent Erico	TDX200S120/208	**18K867**	*
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	700V (N-G), 800V (L-G, L-N), 1200V (L-L)	120kA	300kA	Nvent Erico	TDX300S120/208	**18K871**	*
120/208VAC Wye	3	L-G, L-L, L-N, N-G	170/276VAC	700V (N-G), 800V (L-G, L-N), 1200V (L-L)	160kA	400kA	Nvent Erico	TDX400S120/208	**18K874**	*
120/240V High Leg Delta	3	L-G, L-L, L-N, N-G	170/276VAC	600V (L-G, L-N, N-G), 1000V (L-L)	50kA	100kA	Nvent Erico	TDX100M120/240D	**18K860**	*
240VAC Delta	3	L-G, L-L	275/550VAC	1000V (L-G, L-L)	40kA	100kA	Nvent Erico	TDX100M240D	**18K861**	*
277/480VAC Wye	3	L-L, L-N, N-G	320/550VAC	1200V (L-L, L-N, N-G), 1800V (L-L)	40kA	100kA	Nvent Erico	TDX100C277/480	**18K857**	
277/480VAC Wye	3	L-L, L-N, N-G	320/550VAC	1200V (L-L, L-N, N-G), 1800V (L-L)	40kA	100kA	Nvent Erico	TDX100M277/480	**18K862**	*
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320/550VAC	1000V (L-N), 1200V (L-G, N-G), 1800V (L-L)	80kA	200kA	Nvent Erico	TDX200C277/480	**18K866**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320/550VAC	1000V (L-N), 1200V (L-G, N-G), 1800V (L-L)	80kA	200kA	Nvent Erico	TDX200S277/480	**18K869**	*
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320/550VAC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	120kA	300kA	Nvent Erico	TDX300S277/480	**18K873**	*
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320/550VAC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	160kA	400kA	Nvent Erico	TDX400S277/480	**18K876**	*
480VAC Delta	3	L-G, L-L	610/1220VAC	1800V (L-G, L-L)	40kA	100kA	Nvent Erico	TDX100M480D	**18K863**	*
480VAC Delta	3	L-G, L-L	610/1220VAC	1800V (L-G, L-L)	80kA	200kA	Nvent Erico	TDX200S480D	**18K870**	*
NEMA 4, Panelboard, ¾" Straight Nipple										
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	700V (N-G), 800V (L-G, L-N), 1200V (L-L)	120kA	300kA	Nvent Erico	TDX300S120/240	**18K872**	*
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	700V (N-G), 800V (L-G, L-N), 1200V (L-L)	160kA	400kA	Nvent Erico	TDX400S120/240	**18K875**	*
NEMA 4, Panelboard, ¾" Straight Nipple (Optional Flush Mounting Plate for Drywall)										
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	600V (L-N, N-G), 700V (L-G), 1000V (L-L)	40kA	100kA	Nvent Erico	TDX100C120/240	**18K855**	
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	600V (L-N, N-G), 700V (L-G), 1000V (L-L)	50kA	100kA	Nvent Erico	TDX100M120/240	**18K859**	*
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	600V (L-G, L-N, N-G), 1000V (L-L)	80kA	200kA	Nvent Erico	TDX200C120/240	**18K865**	
120/240VAC	1	L-G, L-L, L-N, N-G	170/276VAC	600V (L-G, L-N, N-G), 1000V (L-L)	100kA	200kA	Nvent Erico	TDX200S120/240	**18K868**	*
120VAC	1	L-G, L-N, N-G	170VAC	600V (L-G, L-N, N-G)	40kA	100kA	Nvent Erico	TDX100C120	**18K853**	
240VAC	1	L-G, L-N, N-G	275VAC	1000V (L-G, L-N, N-G)	40kA	100kA	Nvent Erico	TDX100C240	**18K856**	
NEMA 4X, Audible Alarm, Dry Contacts										
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	500V (N-G), 600V (L-N), 700V (L-G), 1000V (L-L)	20kA	100kA	Siemens	TPS3A0910D00	**6DNY4**	
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	600V (N-G), 700V (L-G, L-N), 1000V (L-L)	20kA	150kA	Siemens	TPS3A1115D2	**13W838**	
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	500V (N-G), 600V (L-N), 700V (L-G), 1000V (L-L)	20kA	200kA	Siemens	TPS3A1120D2	**19T317**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	500V (N-G), 600V (L-N), 700V (L-G), 1000V (L-L)	20kA	100kA	Siemens	TPS3C0910D00	**6DNY6**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	600V (N-G), 700V (L-G, L-N), 1000V (L-L)	20kA	150kA	Siemens	TPS3C1115D2	**13W839**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	600V (N-G), 700V (L-G, L-N), 1000V (L-L)	20kA	200kA	Siemens	TPS3C1120D2	**19T314**	
120/240VAC High Leg Delta	3	L-G, L-L, L-N, N-G	150/320VAC	600V (N-G), 700/1200V (L-G, L-N), 1000V (L-L)	20kA	150kA	Siemens	TPS3B1115D2	**19T315**	
120/240VAC High Leg Delta	3	L-G, L-L, L-N, N-G	150/320VAC	600V (N-G), 700/1200V (L-G, L-N), 1000V (L-L)	20kA	200kA	Siemens	TPS3B1120D2	**19T316**	
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G), 2000V (L-L)	20kA	150kA	Siemens	TPS3D1115D2	**19T311**	
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G), 2000V (L-L)	20kA	200kA	Siemens	TPS3D1120D2	**19T312**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	20kA	100kA	Siemens	TPS3E0910D00	**6DNY8**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	150kA	Siemens	TPS3E1115D2	**13W840**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	200kA	Siemens	TPS3E1120D2	**19T318**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G, L-L)	10kA	100kA	Siemens	TPS3F0910D00	**6DNY9**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G), 2000V (L-L)	10kA	150kA	Siemens	TPS3F1115D2	**13W841**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G), 2000V (L-L)	10kA	200kA	Siemens	TPS3F1120D2	**19T313**	
NEMA 4X, Audible Alarm, Dry Contacts, Surge Counter										
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	200kA	Siemens	TPS3A1220VX02	**13W842**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	200kA	Siemens	TPS3C1220VX02	**13W843**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	200kA	Siemens	TPS3E1220VX02	**13W844**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G, L-L)	10kA	200kA	Siemens	TPS3F1220VX02	**13W845**	
NEMA 4X, Audible Alarm, Dry Contacts, Surge Counter, Disconnect Switch										
120/240VAC	1	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	300kA	Siemens	TPS3A1230VXD2	**13W846**	
120/208VAC Wye	3	L-G, L-L, L-N, N-G	150VAC	700V (L-G, L-N, N-G), 1200V (L-L)	20kA	300kA	Siemens	TPS3C1230VXD2	**13W847**	
277/480VAC Wye	3	L-G, L-L, L-N, N-G	320VAC	1200V (L-N, L-G, N-G), 2000V (L-L)	20kA	300kA	Siemens	TPS3E1230VXD2	**13W848**	
480VAC Delta	3	L-G, L-L	552VAC	1800V (L-G, L-L)	10kA	300kA	Siemens	TPS3F1230VXD2	**13W849**	
NEMA 4X, Mounting Hardware										
120/240VAC	1	L-L, L-N	150VAC	600V (L-N), 1000V (L-L)	20kA	50kA	Siemens	TPS3A03050	**13W834**	
120/240VAC High Leg Delta	3	L-G, L-L, L-N, N-G	150/320VAC	600V (L-N), 1000V/1500V (L-L), 1200V (L-G)	20kA	50kA	Siemens	TPS3B030500	**19T320**	
240VAC Delta	3	L-G, L-L	320VAC	1200V (L-G), 1500V (L-L)	20kA	50kA	Siemens	TPS3D030500	**19T319**	
480VAC Delta	3	L-L, L-N	552VAC	1800V (L-G), 3000V (L-L)	10kA	50kA	Siemens	TPS3F030500	**13W837**	

**** Modular design includes internal fusing.***

Class 2 Transformers

Johnson Controls · Dayton · White-Rodgers · Functional Devices, Inc. · RIB · EDWARDS SIGNALING

JOHNSON CONTROLS

Designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24VAC HVACR control systems. UL 1585, UL 506, and CSA C22.2 No. 66.

DAYTON®

- 1-phase, 60/50 Hz

100VA models and Nos. 4TGX7 and 4VZF1 are UL and C-UL Listed. Most others are UL and C-UL Recognized, except 50VA models are UL Recognized and CSA Certified.

VA Rating	Input Voltage	Output Voltage	Includes	Brand	Item No.
½ in Hub, Foot Mount					
20 VA	24V AC	24V AC	Inherently Isolated	RIB	**2ETC5**
	120V AC	24V AC	Inherently Isolated	RIB	**2ETC4**
	277V AC	24V AC	Inherently Isolated	RIB	**2ETC6**
40 VA	24V AC	24V AC	Inherently Isolated	RIB	**2ETC8**
	120/208/240V AC	24V AC	Inherently Isolated	RIB	**2ETC9**
	120/208/240V AC	24V AC	Internal Thermal	RIB	**41D382**
	120V AC	24V AC	Inherently Isolated	RIB	**2ETC7**
	120V AC	24V AC	Inherently Isolated	RIB	**6ZEP2**
	208/240/277/480V AC	120V AC	—	RIB	**41D381**
50 VA	120/208/240/277/480V AC	24V AC	Circuit Breaker	RIB	**2ETD3**
	120/208/240V AC	24V AC	Circuit Breaker	RIB	**41D391**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD1**
	120V AC	24V AC	Fuse	RIB	**41D383**
	120V AC	24V AC	Fuse	RIB	**6ZEP4**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP6**
	208/240/277/480V AC	120V AC	—	RIB	**41D393** *
	208/277/480V AC	24V AC	Circuit Breaker	RIB	**41D392**
	277V AC	24V AC	Circuit Breaker	RIB	**2ETD2**
	277V AC	24V AC	Fuse	RIB	**41D387**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	RIB	**2ETD6**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD4**
	277V AC	24V AC	Circuit Breaker	RIB	**2ETD5**
100 VA	120/208/240/277/480V AC	24V AC	—	RIB	**45DR93**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D399**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD7**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP7**
150 VA	120V AC	24V AC	—	RIB	**41D401** *
	208/240/277/480V AC	120V AC	—	RIB	**41D403** *
175 VA	120V AC	24V AC	—	RIB	**41D406** *
240 VA	120V AC	24V AC	—	RIB	**41D407** *
375 VA	120V AC	24V AC	—	RIB	**41D409** *
Dual ½ in Hub, Foot Mount					
20 VA	120/208/240/277V AC	24V AC	Inherently Limited	RIB	**41D378**
	208V AC	24V AC	Inherently Limited	RIB	**41D377**
40 VA	120/208/240/277V AC	24V AC	Inherently Limited	RIB	**2ETD8**
	120V AC	24V AC	Inherently Limited	RIB	**41D379**
	120V AC	24V AC	—	RIB	**23NT19**
50 VA	120/208/240/277/480V AC	24V AC	None	RIB	**45DR71**
	120/208/240V AC	24V AC	Circuit Breaker	RIB	**41D390**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D386**
	120V AC	24V AC	Fuse	RIB	**41D384**
	208/240/277/480V AC	120V AC	—	RIB	**41D389**
	208/240V AC	24V AC	Fuse	RIB	**41D385**
	277V AC	24V AC	Fuse	RIB	**41D388**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	RIB	**41D396**
	120V AC	24V AC	Circuit Breaker	RIB	**41D395**
100 VA	120/208/240/277/480V AC	24V AC	—	RIB	**45DR91**
	120/208/240/277/480V AC	24V AC	—	RIB	**45DR92**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D398**
	120V AC	24V AC	Circuit Breaker	RIB	**41D397**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP8**
	208/240/277/480V AC	120V AC	—	RIB	**23NT20**

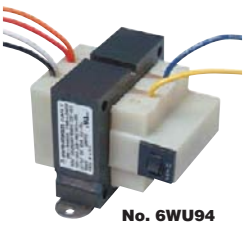
WHITE RODGERS

Energy limiting to power 24VAC control systems, and step down available line voltage.

RIB® 20 TO 100VA

- Class 2 rated, except where footnoted
- 1-phase, 60/50 Hz

Designed with split-bobbin construction and pigtail wires. UL and C-UL Listed, CE Certified.



No. 6WU94

VA Rating	Input Voltage	Output Voltage	Includes	Brand	Item No.
150 VA	120V AC	24V AC	—	RIB	**41D402** *
175 VA	120V AC	24V AC	—	RIB	**41D405** *
Foot, Plate), Universal (½ in Hub Mount					
40 VA	120/208/240V AC	24V AC	Multi Mount plate	WR	**6WU93**
	120V AC	24V AC	Thermal Breaker	Dayton	**4VZE5**
	120V AC	24V AC	Multi Mount plate	WR	**6WU92**
Foot Mount					
5 VA	120V AC	10V AC	—	Edwards	**14W012**
10 VA	120V AC	16V AC	—	Edwards	**14W013**
10VA @ 6VAC, 15VA @ 18VAC, 15VA @ 12VAC	120V AC	12V AC, 18V AC, 6.0V AC	—	Edwards	**14W015**
10VA @ 16VAC, 10VA @ 8VAC, 20VA @24VAC	120V AC	16V AC, 24V AC, 8.0V AC	—	Edwards	**14W014**
20 VA	120/208/240V AC	24V AC	—	Dayton	**4VZE2**
	120V AC	24V AC	—	Dayton	**4VZE1**
20VA @ 8VAC, 30VA @ 24 VAC, 30VA @ 16VAC	120V AC	16V AC, 24V AC, 8.0V AC	—	Edwards	**14W016**
40 VA	24V AC	24V AC	—	Johnson	**29YK06**
	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YK07**
	120/208/240V AC	24V AC	Thermal Breaker	Dayton	**4VZE4**
	120/208/240V AC	24V AC	—	WR	**6WU91**
	120V AC	24V AC	—	Johnson	**29YK03**
	120V AC	24V AC	Thermal Breaker	Dayton	**4VZE3**
	120V AC	24V AC	—	Edwards	**14W017**
50 VA	120/208/240V AC	24V AC	—	Dayton	**4VZE8**
	120/277V AC	24V AC	—	RIB	**41D394**
60 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF2**
	120/208/240V AC	24V AC	Circuit Breaker	Dayton	**4VZF1**
	120/208/240V AC	24V AC	—	WR	**6WU94**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF5**
	120/208/240V AC	24V AC	—	WR	**6WU95**
92 VA	120/208/240V AC	24V AC	—	Johnson	**29YK01**
96 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF8**
175 VA	208/240V AC	24V AC	—	RIB	**41D404** *
300 VA	120/208/240/480V AC	24V AC	—	RIB	**41D408** *
Plate Mount					
40 VA	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YK08**
	120V AC	24V AC	4" x 4" Plate	Johnson	**29YK04**
	120V AC	24V AC	Thermal Breaker	Dayton	**4TGX7**
	120V AC	25V AC	—	WR	**3A358**
	277/480V AC	24V AC	4" x 4" Plate	Johnson	**29YK05**
50 VA	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YJ99**
92 VA	120/208/240V AC	24V AC	Mounting Plate	Johnson	**29YK02**

** Non-Class 2 rated.*

No. 23NT01



No. 23NT12



Functional Devices, Inc. · RIB

Prepackaged Control Transformers

- 24VAC Output
- 1-Phase, 60/50 Hz
- Includes circuit breaker
- 40VA to 500VA

Feature On/Off control, overcurrent protection, LED power indicator, high/low separation, 120VAC convenience outlets, and fully-enclosed finger-safe terminals.

VA Rating	Enclosure Style	Primary Connection	H	W	D	Item No.
120V AC Input Voltage						
40 VA	Enclosed	Pigtails	4.5 in	5.43 in	4.5 in	**23NT01**
40 VA	Enclosed	3 ft Cord with Plug	4.5 in	5.43 in	4.5 in	**23NT03**
100 VA	Enclosed	Screw Terminals	6.25 in	4.25 in	5.62 in	**23NT07**
100 VA	Enclosed	Pigtails	4.5 in	5.44 in	4.5 in	**23NT08**
100 VA	Enclosed	3 ft Cord with Plug	4.5 in	5.44 in	4.5 in	**23NT09**
(2) 100VA	Enclosed	Pigtails	4.5 in	8.62 in	4.5 in	**23NT10**
100 VA	Open	Screw Terminals	5.2 in	3.75 in	5.25 in	**23NT06**
120V AC, 208V AC, 240V AC, 277V AC, 480V AC Input Voltage						
75 VA	Enclosed	Pigtails	4.5 in	5.43 in	4.5 in	**23NT04**
(2) 75VA	Enclosed	Pigtails	4.5 in	8.62 in	4.5 in	**23NT05**
120V AC, 240V AC, 277V AC, 347V AC, 480V AC Input Voltage						
(5) 40VA	Enclosed	Screw Terminals	4.5 in	5.44 in	4.5 in	**23NT11**
(5) 40VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT12**
120V AC, 240V AC, 277V AC, 480V AC Input Voltage						
(3) 100VA	Enclosed	Screw Terminals	12.13 in	12.12 in	6.0 in	**23NT13**
(5) 100VA	Enclosed	Screw Terminals	12.13 in	12.12 in	6.0 in	**23NT15**
(3) 100VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT14**
(5) 100VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT16**

No. 6NW04



SOLAHD

Power Conditioners

- 1-phase, 60 Hz
- Hardwired, panel-mount
- 25-yr. typical mean time before failure (MTBF)

Constant-voltage transformers regulate voltage, filter noise, and suppress surges to protect connected equipment. They utilize patented ferroresonant transformer technology to function as both step-up and step-down transformers. For use where a constant voltage level is required to help reduce unscheduled downtime, incorrect data, or scrapped production. UL Listed.

Power Rating	Input Voltage	Output Voltage	W	H	D	Mfr. Model	Item No.
+/-1% Voltage Regulation, CVS Series							
30VA	120V	120V	4 in	7 in	5 in	23-13-030-2	**6NW04**
60VA	120V	120V	4 in	7 in	5 in	23-13-060-2	**6NW05**
120VA	120/240	120V	4 in	8 in	5 in	23-22-112-2	**6NW06**
250VA	120/240/480V	120V	6 in	11 in	8 in	23-23-125-8	**6NW07**
500VA	120/208/240/480	120/240V	9 in	13 in	7 in	23-23-150-8	**6NW08**
1kVA	120/208/240/480V	120/240	9 in	17 in	7 in	23-23-210-8	**6NW09**
2kVA	120/208/240/480V	120/240	13 in	18 in	10 in	23-23-220-8	**6NW10**
3kVA	120/208/240/480V	120/240	13 in	19 in	10 in	23-23-230-8	**6NW11**
+/-3% Voltage Regulation, MCR Series							
250VA	120/208/240/480V	120V	6 in	10 in	8 in	63-23-125-4	**5EU14**
500VA	120/208/240/480V	120/208/240V	9 in	13 in	7 in	63-23-150-8	**5EU15**
1kVA	120/208/240/480V	120/208/240V	9 in	17 in	7 in	63-23-210-8	**5EU16**
2kVA	120/208/240/480V	120/208/240V	13 in	18 in	9 in	63-23-220-8	**5EU17**
3kVA	120/208/240/480V	120/208/240V	13 in	19 in	9 in	63-23-230-8	**5EU18**

VA Rating	Input Voltage	Output Voltage	DAYTON ENCAPSULATED Item No.	DAYTON FINGER SAFE Item No.	SQUARE D Item No.	ACME ELECTRIC Item No.
Without Primary Fuse Blocks						
50VA	120/240VAC	24VAC	31EH75 *	4JWU2	4R886	491Z50
	120VAC	12/24VAC	31EH93	4JWU1	4R876	—
	208/240/480VAC	120VAC	—	—	4R884	—
	208/277VAC	120VAC	31EH11 *	—	—	—
	208VAC	24VAC	—	—	4R878	—
	208VAC	120VAC	—	—	4R888	—
	240/480VAC	120VAC	31EG82 *	4MTL7	4R874	491W86
	240/480VAC	24VAC	31EH39 *	4MTL6	4R882	491Y88
	277VAC	120VAC	—	4MTL9	4R890	—
	277VAC	24VAC	31EH57 *	4MTL8	—	—
	480VAC	120VAC	—	—	2CT23 ‡	—
75VA	120/240VAC	24VAC	31EH76 *	4MTN2	4R900	491Z51
	120VAC	12/24VAC	31EH94	4MTN1	4R896	—
	208/277VAC	120VAC	31EH12 *	—	—	491Y55
	208VAC	120VAC	—	—	22LR91	—
	240/480VAC	24VAC	31EH40 *	4MTN4	4R898	491Y89
	240/480VAC	120VAC	31EG83 *	4MTN5	4R894	491W87
	277VAC	120VAC	—	4MTN7	22LR92	—
	277VAC	24VAC	31EH58 *	4MTN6	—	—
100VA	120/240VAC	24VAC	31EH77 *	4MTN9	4R832	491Z52
	120VAC	12/24VAC	31EH95	4MTN8	4R824	—
	208/240/480VAC	120VAC	—	—	1YUR2	—
	208/277VAC	120VAC	31EH13 *	—	—	491Y56
	208VAC	24VAC	—	—	4R826	—
	208VAC	120VAC	—	—	4R834	—
	240/480VAC	24VAC	31EH41 *	4MTP2	4R830	491Y90
	240/480VAC	120VAC	31EG84 *	4MTP3	4R822	491W88
	240/480VAC	120VAC	—	—	4R828 *	491Z26
	277VAC	24VAC	31EH59 *	4MTP4	—	—
	277VAC	120VAC	—	4MTP5	4R836	—
	480VAC	120VAC	—	—	2CT24 ‡	—
150VA	120/240VAC	24VAC	31EH78 *	4MTP7	4R850	491Z53
	120VAC	12/24VAC	31EH96	4MTP6	4R842	—
	208/240/480VAC	120VAC	—	—	4R848	—
	208/277VAC	120VAC	31EH14 *	—	—	491Y57
	208VAC	120VAC	—	—	1YUR4	—
	208VAC	24VAC	—	—	1YUR6	—
	240/480VAC	24VAC	31EH42 *	4MTP9	4R846	491Y91
	240/480VAC	120VAC	31EG85 *	4MTR1	4R840	491W89
	277VAC	120VAC	—	4MTR3	4R852	—
	277VAC	24VAC	31EH60 *	4MTR2	—	—
200VA	120/240VAC	24VAC	31EH79 *	—	1YUR3	491Z54
	120VAC	12/24VAC	31EH97	—	1YUR7	—
	208/277VAC	120VAC	31EH15 *	—	—	491Y58
	208VAC	120VAC	—	—	1YUR5	—
	208VAC	24VAC	—	—	22LR65	—
	240/480VAC	120VAC	31EG86 *	—	4R856	491W90
	240/480VAC	24VAC	31EH43 *	—	1YUR1	491Y92
	277VAC	120VAC	—	—	22LR67	—
	277VAC	24VAC	31EH61 *	—	—	—
250VA	120/240VAC	24VAC	31EH80 *	4MTR5	1YUT2	491Z55
	120VAC	12/24VAC	31EH98	4MTR4	4R860	—
	208/240/480VAC	120VAC	—	—	1YUR9	—
	208/277VAC	120VAC	31EH16 *	—	—	491Y59
	208VAC	120VAC	—	—	1YUT3	—
	208VAC	24VAC	—	—	1YUT4	—
	240/480VAC	24VAC	31EH44 *	4MTR7	2CV18	491Y93
	240/480VAC	120VAC	31EG87 *	4MTR8	4R858	491W91
	277VAC	120VAC	—	4MTT1	1YUT1	—
	277VAC	24VAC	31EH62 *	4MTR9	—	—
300VA	120/240VAC	24VAC	31EH81 *	—	22LR74	491Z56
	120VAC	12/24VAC	31EH99	—	4R866	—
	208/277VAC	120VAC	31EH17 *	—	—	491Y60
	208VAC	120VAC	—	—	22LR75	—
	240/480VAC	24VAC	31EH45 *	—	22LR72	491Y94
	240/480VAC	120VAC	31EG88 *	—	4R864	491W92
	277VAC	24VAC	31EH63 *	—	—	—
350VA	120/240VAC	24VAC	31EH82 *	4MTT3	1YUT5	491Z57
	120VAC	12/24VAC	31EJ01	4MTT2	22LR77	—
	208/277VAC	120VAC	31EH18 *	—	—	491Y61
	208VAC	120VAC	—	—	1YUT6	—
	240/480VAC	120VAC	31EG89 *	4MTT6	4R868	491W93
	240/480VAC	24VAC	31EH46 *	4MTT5	22LR79	491Y95
	277VAC	120VAC	—	4MTT8	22LR81	—
	277VAC	24VAC	31EH64 *	4MTT7	—	—
500VA	120/240VAC	24VAC	31EH83 *	4MTU1	1YUT9	491Z58
	120VAC	12/24VAC	31EJ02	4MTT9	4R872	—
	208/277VAC	120VAC	31EH19 *	—	—	491Y62
	208VAC	120VAC	—	—	1YUV1	—
	240/480VAC	24VAC	31EH47 *	4MTU3	1YUR8	491Y96
	240/480VAC	120VAC	31EG90 *	4MTU4	4R870	491W94
	277VAC	120VAC	—	4MTU6	1YUT8	—
	277VAC	24VAC	31EH65 *	4MTU5	—	—
750VA	120/240VAC	24VAC	—	4MTU8	22LR88	491Z59
	120VAC	12/24VAC	31EJ03	—	22LR85	—
	208/277VAC	120VAC	31EH20 *	—	—	—
	208VAC	120VAC	—	—	1YUV4	—
	208VAC	24VAC	—	—	22LR86	—
	240/480VAC	24VAC	—	4MTV1	22LR87	491Y97
	240/480VAC	120VAC	31EG91 *	4MTV2	4R892	491W95
	277VAC	120VAC	—	4MTV4	1YUV3	—
1kVA	120/240VAC	24VAC	—	—	22LR60	491Z60
	120VAC	12/24VAC	31EJ04	4MTV5	22LR57	—
	208/240/480VAC	120VAC	31EJ44 *	—	—	—
	208/277VAC	120VAC	31EH21 *	—	—	—
	208VAC	120VAC	—	—	22LR61	—
	240/480VAC	24VAC	—	4MTV8	22LR59	491Z49
	240/480VAC	120VAC	31EG92 *	4MTV9	2F456	491W96
	277VAC	120VAC	—	4MTW2	1YUV5	—
1.5kVA	120/240VAC	24VAC	—	4MTW4	—	—
	120VAC	12/24VAC	31EJ05	—	—	—
	208/277VAC	120VAC	31EH22 *	—	—	—
	208VAC	120VAC	—	—	1YUV7	—
	240/480VAC	24VAC	—	4MTW6	—	—
	240/480VAC	120VAC	31EG93 *	4MTW7	4RM77	491W97
	277VAC	120VAC	—	4MTW9	22LR62	—

Dayton | Square D by Schneider Electric | Acme Electric

Control Transformers

Additional transformers are available, see Grainger.com®. 60/50 Hz.

Dayton® Encapsulated—Fully-encapsulated coil eases wire routing around transformer, and provides durable construction. 55°C temp. rise. Panel mounting. Include secondary fuse clips. 3-yr. warranty.

Dayton® Finger Safe—Open 1-phase isolating/control transformers feature separate insulated windings with heat-tempered varnish that protects against dust, humidity, and corrosion. For fixed installation in cabinets or switchboards. Require separate overload and short-circuit protection. Handle high inrush currents associated with contactors and relays. 50°C temp. rise, 45°C ambient.



Square D Nonfused

Square D—Copper wound, vacuum impregnated. 50 to 150VA models: 55°C temp. rise; 200 to 350VA models: 80°C temp. rise; 500 to 2000VA models: 115°C temp. rise, meet NOM requirements. Fused models include 2 primary fuse clips to accommodate Class CC time delay, rejection type fuses; see page 180. 1 secondary fuse clip uses a 1½" x 13⁄32" midget fuse; see page 179. 10-year warranty.

Acme Electric—Constructed of silicon steel lamination to minimize core losses and increase efficiency. Feature precision wound coils, copper windings, and series-parallel connecting links. 80°C temp. rise.

VA Rating	Input Voltage	Output Voltage	DAYTON ENCAPSULATED Item No.	DAYTON FINGER SAFE Item No.	SQUARE D Item No.	ACME ELECTRIC Item No.
2kVA	208/277VAC	120VAC	31EH23 *	—	—	—
	240/480VAC	120VAC	31EG94 *	—	4RM78	491W98
With Primary Fuse Blocks						
50VA	120/240VAC	24VAC	31EH84	—	—	—
	120VAC	12/24VAC	31EJ06	—	—	—
	208/277VAC	120VAC	31EH26 *	—	—	491Y64
	208VAC	120VAC	—	—	1YUW3 *	—
	240/480VAC	120VAC	31EG97	—	4R924 *	491X02
	240/480VAC	24VAC	31EH48	—	1YUW1 *	491Y98
	277VAC	24VAC	31EH66 *	—	—	—
75VA	120/240VAC	24VAC	31EH85	—	—	—
	120VAC	12/24VAC	31EJ07	—	—	—
	208/277VAC	120VAC	31EH27 *	—	—	491Y65
	240/480VAC	120VAC	31EG98	—	4R930 *	491X03
	240/480VAC	24VAC	31EH49	—	—	491Y99
	277VAC	24VAC	31EH67 *	—	—	—
100VA	120/240VAC	24VAC	31EH86	—	—	—
	120VAC	12/24VAC	31EJ08	—	—	—
	208/240/480VAC	120VAC	—	—	4R906 *	—
	208/277VAC	120VAC	31EH28 *	—	—	491Y66
	208VAC	120VAC	—	—	1YUW6 *	—
	240/480VAC	24VAC	31EH50	—	1YUW5 *	491Z01
	240/480VAC	120VAC	31EG99	—	4R904 *	491X04
	277VAC	24VAC	31EH68 *	—	—	—
150VA	120/240VAC	24VAC	31EH87	—	—	—
	120VAC	12/24VAC	31EJ09	—	—	—
	208/240/480VAC	120VAC	—	—	4R912 *	—
	208/277VAC	120VAC	31EH29 *	—	—	491Y67
	208VAC	120VAC	—	—	1YUW8 *	—
	240/480VAC	120VAC	31EH01	—	4R910 *	491X05
	240/480VAC	24VAC	31EH51	—	1YUW7 *	491Z02
	277VAC	24VAC	31EH69 *	—	—	—
200VA	120/240VAC	24VAC	31EH88	—	—	—
	120VAC	12/24VAC	31EJ10	—	—	—
	208/277VAC	120VAC	31EH30 *	—	—	491Y68
	240/480VAC	24VAC	31EH52	—	—	491Z03
	240/480VAC	120VAC	31EH02	—	4R914 *	491X06
250VA	120/240VAC	24VAC	31EH89	—	—	—
	120VAC	12/24VAC	31EJ11	—	—	—
	208/277VAC	120VAC	31EH31 *	—	—	491Y69
	240/480VAC	24VAC	31EH53	—	—	491Z04
	240/480VAC	120VAC	31EH03	—	4R916 *	—
300VA	120/240VAC	24VAC	31EH90	—	—	—
	120VAC	12/24VAC	31EJ12	—	—	—
	208/277VAC	120VAC	31EH32 *	—	—	491Y70
	208VAC	120VAC	—	—	1YUX2 *	—
	240/480VAC	24VAC	31EH54	—	—	491Z05
	240/480VAC	120VAC	31EH04	—	4R918 *	491X08
350VA	120VAC	12/24VAC	31EJ13	—	—	—
	208/277VAC	120VAC	31EH33 *	—	—	491Y71
	240/480VAC	120VAC	31EH05	—	4R920 *	491X09
	240/480VAC	24VAC	—	—	—	491Z06
500VA	120/240VAC	24VAC	31EH92	—	—	—
	120VAC	12/24VAC	31EJ14	—	—	—
	208/277VAC	120VAC	31EH34 *	—	—	491Y72
	208VAC	120VAC	—	—	1YUX5 *	—
	240/480VAC	120VAC	31EH06	—	4R922 *	491X10
	240/480VAC	24VAC	31EH56	—	—	491Z07
	277VAC	24VAC	31EH74 *	—	—	—
750VA	120VAC	12/24VAC	31EJ15	—	—	—
	208/277VAC	120VAC	31EH35 *	—	—	491Y73
	240/480VAC	120VAC	31EH07	—	4R928 *	491X11
1kVA	120VAC	12/24VAC	31EJ16	—	—	—
	208/277VAC	120VAC	31EH36 *	—	—	—
	208VAC	120VAC	—	—	1YUX6 *	—
	240/480VAC	120VAC	31EH08	—	4R902 *	491X12
1.5kVA	120VAC	12/24VAC	31EJ17	—	—	—
	208/277VAC	120VAC	31EH37 *	—	—	—
	240/480VAC	120VAC	31EH09	—	1YUX7 *	491X13
2kVA	208/277VAC	120VAC	31EH38 *	—	—	—
	240/480VAC	120VAC	31EH10	—	1YUX8 *	491X14

** Includes secondary fuse block. ‡ Wire lead connections.*

SQUARE D by Schneider Electric | Acme Electric®

1-Phase Transformers

- 120/240VAC output
- 60 Hz, except 60/50 Hz where noted
- Wall mount, except where noted

NEMA 3R enclosures, except NEMA 2 where footnoted. Weather shields to adapt indoor NEMA 2 enclosures for outdoor NEMA 3R use are available; call 1-800-GRAINGER (472-4643) or search Grainger.com®. UL Listed and CSA Certified.



No. 1H727

VA Rating	SQUARE D Temp. Rise	SQUARE D Mfr. Model	SQUARE D Item No.		ACME ELECTRIC Temp. Rise	ACME ELECTRIC Mfr. Model	ACME ELECTRIC Item No.	
120VAC, 208VAC, 240VAC, 277VAC Input								
1kVA	—	—	—		115°C	T279740S	**4WUD5**	
1.5kVA	—	—	—		115°C	T279741S	**4WUD6**	
2kVA	—	—	—		115°C	T279742S	**4WUD7**	
3kVA	—	—	—		115°C	T279743S	**4WUD8**	
5kVA	—	—	—		115°C	T279744S	**4WUD9**	
7.5kVA	—	—	—		115°C	T279745S	**4WUE1**	
120VAC, 240VAC Input								
1kVA	180°C	1S6FIS	**2CT06**		—	—	—	
2kVA	115°C	2S6FIS	**2CT11**		—	—	—	
5kVA	115°C	5S6FIS	**2CN50**		—	—	—	
7.5kVA	115°C	7S6FIS	**2CN76**		—	—	—	
190VAC, 200VAC, 208VAC, 220VAC, 380VAC, 400VAC, 416VAC, 440VAC Input								
7.5kVA	115°C	7S67F	**2CN75**	*	—	—	—	
190VAC, 208VAC, 220 VAC, 240VAC, 380VAC, 416VAC, 440VAC, 480VAC Input								
1kVA	115°C	1S67F	**2CT05**	*	115°C	TF279260S	**4WUC6**	*
2kVA	115°C	2S67F	**2CT10**	*	115°C	TF279261S	**4WUC7**	*
3kVA	115°C	3S67F	**2CN20**		115°C	TF279262S	**4WUC8**	*
5kVA	115°C	5S67F	**2CN49**	*	115°C	TF279263S	**4WUC9**	*
7.5kVA	—	—	—		115°C	TF279264S	**4WUD1**	*
10kVA	—	—	—		115°C	TF279265S	**4WUD2**	*
15kVA	—	—	—		115°C	TF279266S	**4WUD3**	*
25kVA	—	—	—		115°C	TF279267S	**4WUD4**	*
208VAC Input								
1kVA	115°C	1S7F	**2CT07**		—	—	—	
3kVA	105°C	3S7FIS	**2CT20**		—	—	—	
5kVA	115°C	5S7FIS	**2CN51**		—	—	—	
240VAC, 480VAC Input								
50VA	55°C	50SV1A	**1H727**		80°C	T153004	**4WTZ8**	
100VA	55°C	100SV1A	**1H719**		80°C	T153005	**4WTZ9**	
150VA	55°C	150SV1A	**1H720**		80°C	T153006	**4WUA1**	
250VA	80°C	250SV1B	**1H722**		115°C	T253007S	**4WUA2**	
500VA	80°C	500SV1B	**1H726**		115°C	T253008S	**4WUA3**	
750VA	115°C	750SV1F	**1H728**		115°C	T253009S	**4WUA4**	
1kVA	115°C	1S1F	**1H721**		115°C	T253010S	**4WUA5**	
1.5kVA	115°C	1.5S1F	**1H718**		115°C	T253011S	**4WUA6**	
2kVA	115°C	2S1F	**1H723**		115°C	T253012S	**4WUA7**	
3kVA	115°C	3S1F	**1H724**		115°C	T253013S	**4WUA8**	
5kVA	115°C	5S1F	**1H277**		115°C	T253014S	**4WUA9**	
7.5kVA	115°C	7S1F	**5B613**		115°C	T2535153S	**4WUC1**	
10kVA	115°C	10S1F	**5B605**		115°C	T2535163S	**4WUC2**	
15kVA	—	—	—		115°C	T2535173S	**4WUC3**	
25kVA	150°C	EE25S3H	**1TBP7**	†	115°C	T2535183S	**4WUC4**	
37.5kVA	150°C	EE37S3H	**1TBP8**	†	150°C	TP530193S	**4LCY7**	†
50kVA	150°C	EE50S3H	**1TBP9**	†	150°C	TP530203S	**4LCY8**	†
480VAC Input								
3kVA	115°C	3S40F	**2CN16**		—	—	—	
5kVA	115°C	MPZ5S40F	**2CP01**		—	—	—	
5kVA	115°C	5S40F	**2CN47**		—	—	—	
7.5kVA	115°C	7S40F	**2CN73**		—	—	—	
10kVA	115°C	10S40F	**2CL96**		—	—	—	
10kVA	115°C	MPZ10S40F	**2CN94**		—	—	—	
15kVA	115°C	15S40F	**2CM35**		—	—	—	
25kVA	115°C	25S40F	**2CM75**	†	—	—	—	
600VAC Input								
50VA	55°C	50SV51A	**22LR54**		—	—	—	
100VA	55°C	100SV51A	**22LR45**		—	—	—	
150VA	55°C	150SV51A	**22LR46**		—	—	—	
250VA	80°C	250SV51B	**22LR48**		—	—	—	
500VA	80°C	500SV51B	**22LR53**		—	—	—	
750VA	115°C	750SV51F	**22LR56**		—	—	—	
1kVA	115°C	1S51F	**22LR47**		—	—	—	
1.5kVA	115°C	1.5S51F	**2CT02**		—	—	—	
2kVA	115°C	2S51F	**22LR49**		—	—	—	
3kVA	115°C	3S4F	**2CN19**		—	—	—	
5kVA	115°C	5S4F	**22LR55**		—	—	—	
10kVA	115°C	10S4F	**2CL97**		—	—	—	
25kVA	150°C	EE25S3534H	**1TBR1**	†	—	—	—	
50kVA	150°C	EE50S3534H	**1TBR2**	†	—	—	—	

** 60/50 Hz. † NEMA 2 enclosures and floor mount.*

Harmonic Mitigating Transformers

Acme Electric®

- 3Ø 480VAC input, 208Y/120VAC output
- Floor mount
- NEMA 3R enclosure
- 150°C temp. rise

Eliminates harmonics to improve power and energy efficiency. Reduce supply voltage flat-topping, transformer heat, and voltage distortion. For use where nonlinear loads generate high levels of harmonic currents that feed back into the distribution system.



No. 49NR92

VA Rating	Mfr. Model	Item No.
30kVA	H3030K0014BCS	**49NR92**
45kVA	H3045K0014BCS	**49NR93**
75kVA	H3075K0014BCS	**49NR94**
112.5kVA	H3112K0014BCS	**49NR95**

SQUARE D by Schneider Electric | Acme Electric®



No. 1H270



No. 4LEF5

Buck-Boost Transformers

- 120/240VAC Input
- 1-phase, 60 Hz
- Wall mount
- Enclosure type: indoor/outdoor

Protect connected equipment from damage by reducing (bucking) or raising (boosting) line voltage 5% to 20%. Primary and secondary lead wires can be interconnected for use as an autotransformer. For use in induction motors and air conditioning, lighting, and heating systems. 24/48VAC output models are available on Grainger.com®. UL Listed and CSA Certified.

VA Rating	Square D Temp. Rise	Square D Mfr. Model	Square D Item No.	Acme Electric Temp. Rise	Acme Electric Mfr. Model	Acme Electric Item No.
12VAC, 24VAC Output						
50VA	115°C	50SV43A	**2CN44**	80°C	T181047	**4LEF5**
100VA	55°C	100SV43A	**1H266**	80°C	T181048	**4LEF6**
150VA	55°C	150SV43A	**1H268**	80°C	T181049	**4LEF7**
250VA	80°C	250SV43B	**1H271**	115°C	T181050	**4LEF8**
500VA	80°C	500SV43B	**1H275**	115°C	T181051	**4LEF9**
750VA	115°C	750SV43F	**1H279**	115°C	T181052	**4LEG1**
1kVA	115°C	1S43F	**1H270**	115°C	T111683	**4LEG2**
1.5kVA	115°C	1.5S43F	**2CL92**	115°C	T111684	**4LEG3**
2kVA	115°C	2S43F	**2CM81**	115°C	T111685	**4LEG4**
3kVA	115°C	3S43F	**2CN17**	115°C	T111686	**4LEG5**
5kVA	—	—	—	115°C	T111687	**4LEG6**
7.5kVA	—	—	—	115°C	T211688	**4LEG7**
10kVA	—	—	—	115°C	T211689	**4LEG8**
16VAC, 32VAC Output						
50VA	115°C	50SV46A	**2CN45**	80°C	T181054	**4LEG9**
100VA	55°C	100SV46A	**2CL95**	80°C	T181055	**4LEH1**
150VA	55°C	150SV46A	**2CM18**	80°C	T181056	**4LEH2**
250VA	80°C	250SV46B	**1H272**	115°C	T181057	**4LEH3**
500VA	80°C	500SV46B	**1H276**	115°C	T181058	**4LEH4**
750VA	115°C	750SV46F	**1H280**	115°C	T181059	**4LEH5**
1kVA	115°C	1S46F	**2CM61**	115°C	T113073	**4LEH6**
1.5kVA	115°C	1.5S46F	**2CL93**	115°C	T113074	**4LEH7**
2kVA	115°C	2S46F	**2CM82**	115°C	T113075	**4LEH8**
3kVA	115°C	3S46F	**2CN18**	115°C	T113076	**4LEH9**
5kVA	—	—	—	115°C	T113077	**4LEJ1**
7.5kVA	—	—	—	115°C	T213078	**4LEJ2**
10kVA	—	—	—	115°C	T213079	**4LEJ3**
24VAC, 48VAC Output						
50VA	115°C	50SV82A	**22LP83**	80°C	T181061	**4LEJ4**
100VA	115°C	100SV82A	**22LP76**	80°C	T181062	**4LEJ5**
150VA	55°C	150SV82A	**22LP77**	80°C	T181063	**4LEJ6**
250VA	80°C	250SV82B	**22LP79**	115°C	T181064	**4LEJ7**
500VA	80°C	500SV82B	**22LP82**	115°C	T181065	**4LEJ8**
750VA	115°C	750SV82F	**22LP84**	115°C	T181066	**4LEJ9**
1kVA	115°C	1S82F	**22LP78**	115°C	T137920	**4LEK1**
1.5kVA	115°C	1.5S82F	**22LP75**	115°C	T137921	**4LEK2**
2kVA	115°C	2S82F	**22LP80**	115°C	T137922	**4LEK3**
3kVA	115°C	3S82F	**22LP81**	115°C	T137923	**4LEK4**
5kVA	—	—	—	115°C	T137924	**4LEK5**
7.5kVA	—	—	—	115°C	T243570	**4LEK6**
10kVA	—	—	—	115°C	T243571	**4LEK7**

TRIPP·LITE

Isolation Transformers

- 120VAC input/output
- Enhanced common mode surge suppression

Transformers offer line isolation and continuous line filtering to protect sensitive electronic equipment against electrical noise disturbances. Include circuit breaker. UL and C-UL Listed.



No. 3RY96

VA Rating	No. of Outlets	H	W	D	Mfr. Model	Item No.
Isolation Transformer						
250VA	2	4.50"	4.75"	7.75"	IS-250	**2KGD2**
500VA	4	5.50"	6.25"	8.50"	IS-500	**2KGD3**
1kVA	4	7.25"	7.25"	10.5"	IS-1000	**2KGD4**
Hospital Grade Isolation Transformer						
250VA	2	4.5"	4.75"	7.75"	IS250HG	**3RY96**
500VA	4	5.75"	6.25"	9.25"	IS500HG	**3RY97**
1kVA	4	7.75"	7.75"	10.5"	IS1000HG	**3RY98**
1.8kVA	6	7.75"	8.25"	12.20"	IS1800HG	**1AYB2**



Dayton Wall Mount
No. 44YU98



Square D Floor Mount
No. 45NZ06

3-Phase Transformers

The Department of Energy (DOE) has mandated new, more stringent efficiency standards for 15 to 1000kVA transformers. Transformers 15kVA and higher in these tables meet this new legislation, DOE 2016, and will help lower operating costs, lower cost of ownership, increase profitability, and reduce overall greenhouse gas emissions. Addtional transformers are available, call 1-800-GRAINGER (472-4643) or see Grainger.com®.

DAYTON

These transformers are designed for indoor locations and feature a 220°C insulation system (150°C rise) that is self-extinguishing.

ACME ELECTRIC

Acme's low voltage distribution transformers are designed for industrial and commercial applications. All of Acme's general purpose transformers are rated for 600V and below. Encapsulated units are offered in ratings up to 15kVA. Ventilated units are available in ratings from 30kVA to 300kVA.

SQUARE D

Transformers NEC minimum clearance side and rear is ½". All units designed to operate at least 3dB below ST-20 sound level. The terminals are sized to handle lug kits, increasing ease of installation. Designed with increased wiring compartments that provide a bending radius for 250% primary cables and multiple feeds on the secondary. Feature 200% neutral to allow customers to feed standard and nonlinear panels.

VA Rating	Input Voltage	Output Voltage	Mounting	Encl. Rating ‡	Temp. Rise	Brand	Item No.
Miscellaneous Voltages							
6kVA	480VAC Delta	240VAC Delta	Wall	NEMA 3R	115°C	Square D	**5B611**
7.5kVA	460VAC Delta	230VAC Wye, 133VAC	Wall	NEMA 3R	115°C	Acme Electric	**3AFL5**
7.5kVA	460VAC Delta	460VAC Wye, 266VAC	Wall	NEMA 3R	115°C	Acme Electric	**3CNN1**
9kVA	480VAC Delta	240VAC Delta	Wall	NEMA 3R	115°C	Square D	**5B618**
11kVA	460VAC Delta	230VAC Wye, 133VAC	Floor	NEMA 3R	115°C	Acme Electric	**3AFL6**
11kVA	460VAC Delta	460VAC Wye, 266VAC	Floor	NEMA 3R	115°C	Acme Electric	**3CNN2**
14kVA	460VAC Delta	230VAC Wye, 133VAC	Floor	NEMA 3R	115°C	Acme Electric	**3AFL7**
14kVA	460VAC Delta	460VAC Wye, 266VAC	Floor	NEMA 3R	115°C	Acme Electric	**3CNN3**
15kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ23**
15kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ22**
15kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ28**
30kVA	190 VAC Delta, 200VAC Delta, 208VAC Delta, 220VAC Delta, 240VAC Delta	400VAC Wye, 231VAC	Floor	NEMA 3R	150°C	Acme Electric	**49NT19**
30kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ47**
30kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ46**
30kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ52**
45kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ55**
45kVA	240VAC Delta	400VAC Wye, 231VAC	Floor	NEMA 3R	150°C	Acme Electric	**49NT20**
45kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ54**
45kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 3R	150°C	Acme Electric	**49NR96**
45kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ60**
75kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ65**
75kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ64**
75kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 3R	150°C	Acme Electric	**49NT02**
75kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ70**
112.5kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ07**
112.5kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ06**
112.5kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ12**
150kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ15**
150kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ14**
150kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ20**
225kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ31**
225kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ30**
225kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ36**
300kVA	208VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ39**
300kVA	480VAC Delta	480VAC Wye, 277VAC	Floor	NEMA 1	150°C	Square D	**45NZ38**
300kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ44**
500kVA	600VAC Delta	208VAC Wye, 120VAC	Floor	NEMA 1	150°C	Square D	**45NZ63**

VA Rating	Mounting	Temp. Rise	DAYTON Item No.	ACME ELECTRIC Item No.	SQUARE D Item No.
208VAC Delta Input Voltage					
480VAC Wye, 277VAC Output Voltage					
15kVA	Wall	115°C	**44YV20**	—	—
15kVA	Floor	150°C	—	—	**45NZ24**
30kVA	Floor	150°C	**44YV16**	**49NT21**	**45NZ48**
45kVA	Floor	150°C	**44YV21**	**49NT22**	**45NZ56**
75kVA	Floor	150°C	**44YV17**	**49NT23**	**45NZ66**
112.5kVA	Floor	150°C	—	**49NT24**	**45NZ08**
150kVA	Floor	150°C	—	**49NT25**	**45NZ16**
225kVA	Floor	150°C	—	**49NT26**	**45NZ32**
300kVA	Floor	150°C	—	**49NT27**	**45NZ40**
500kVA	Floor	150°C	—	—	**45NZ62**
240VAC Delta Input Voltage					
208VAC Wye, 120VAC Output Voltage					
9kVA	Wall	115°C	**44YV03**	**31XG71**	—
15kVA	Wall	115°C	**44YV12**	—	—
15kVA	Floor	150°C	—	—	**45NZ25**
15kVA	Floor	115°C	—	**31XG72**	—
30kVA	Floor	150°C	**44YV06**	**49NT13**	**45NZ49**
45kVA	Floor	150°C	**44YV23**	**49NT14**	**45NZ57**
75kVA	Floor	150°C	**44YV26**	**49NT15**	**45NZ67**
112.5kVA	Floor	150°C	—	**49NT16**	**45NZ09**
150kVA	Floor	150°C	—	**49NT17**	**45NZ17**
225kVA	Floor	150°C	—	**49NT18**	**45NZ33**
300kVA	Floor	150°C	—	—	**45NZ41**
480VAC Wye, 277VAC Output Voltage					
30kVA	Floor	150°C	—	**49NT38**	—
45kVA	Floor	150°C	—	**49NT28**	—
75kVA	Floor	150°C	—	**49NT29**	—
112.5kVA	Floor	150°C	—	**49NT30**	—
150kVA	Floor	150°C	—	**49NT31**	—
480VAC Delta Input Voltage					
208VAC Wye, 120VAC Output Voltage					
3kVA	Wall	115°C	**44YV25**	**4WTY8**	**1H725**
6kVA	Wall	115°C	**44YV22**	**4WTZ1**	**1H278**
9kVA	Wall	115°C	**44YV11**	**4WTZ3**	**1H282**
15kVA	Wall	115°C	**44YV18**	—	—
15kVA	Floor	150°C	—	—	**45NZ26**
15kVA	Floor	150°C	—	—	**45NZ27** †
30kVA	Floor	150°C	**44YV24**	**49NT35**	**45NZ51** †
30kVA	Floor	115°C	—	**49NT03**	—
30kVA	Floor	80°C	—	**49NT04**	—
45kVA	Floor	150°C	**44YV09**	**49NT36**	**45NZ58**
45kVA	Floor	115°C	—	**49NT05**	—
45kVA	Floor	80°C	—	**49NT06**	—
45kVA	Floor	150°C	—	—	**45NZ59** †
75kVA	Floor	150°C	**44YU99**	**49NT37**	—
75kVA	Floor	115°C	—	**49NT07**	—
75kVA	Floor	80°C	—	**49NT08**	—
112kVA	Floor	150°C	**44YV13**	—	—
112.5kVA	Floor	115°C	—	**49NT09**	—
112.5kVA	Floor	150°C	—	**49NT10**	**45NZ11** †
112.5kVA	Floor	150°C	—	—	**45NZ10**
150kVA	Floor	150°C	**44YV14**	**49NT11**	**45NZ18**
150kVA	Floor	150°C	—	—	**45NZ19** †
225kVA	Floor	150°C	**44YV02**	**49NR97**	**45NZ35** †
225kVA	Floor	150°C	—	—	**45NZ34**
300kVA	Floor	150°C	—	**49NT12**	**45NZ42**
300kVA	Floor	150°C	—	—	**45NZ43** †
240VAC Delta, 120VAC Center Tap Output Voltage					
3kVA	Wall	115°C	—	**4WTY9**	—
6kVA	Wall	115°C	—	**4WTZ2**	—
9kVA	Wall	115°C	—	**4WTZ4**	—
30kVA	Floor	150°C	**44YV10**	**49NT32**	**45NZ53**
45kVA	Floor	150°C	**44YV04**	**49NT33**	**45NZ61**
75kVA	Floor	150°C	**44YV07**	**49NT34**	**45NZ71**
112kVA	Floor	150°C	**44YV15**	—	—
112.5kVA	Floor	150°C	—	**49NR98**	**45NZ13**
150kVA	Floor	150°C	**44YV27**	**49NR99**	**45NZ21**
225kVA	Floor	150°C	**44YV19**	**49NT01**	**45NZ37**
300kVA	Floor	150°C	—	—	**45NZ45**
240VAC Delta Output Voltage					
3kVA	Wall	115°C	**44YV05**	—	—
6kVA	Wall	115°C	**44YU98**	—	—
9kVA	Wall	115°C	**44YV08**	—	—
15kVA	Wall	115°C	**44YV01**	—	—

† Copper windings, all others are aluminum. ‡ NEMA 1 enclosures convertible to NEMA 3R with field installed weathershield, sold separately.

Line Conditioners

TRIPP·LITE

- Complete surge and line noise protection

By automatically regulating incoming voltage from 89 to 140VAC to provide nominal 120VAC power, conditioners keep equipment working through low-voltage (i.e., brownout) and high-voltage conditions.



No. 5JK13



No. 5JK11

Output Watts	No. of Outlets	NEMA Plug Config.	Cord Length	W	H	D	Foot-notes	Mfr. Model	Item No.
600	6	5-15P	6 ft.	4¾"	5½"	4¾"	1	LS 606M	**5JK13**
1200	4	5-15P	7 ft.	6"	7¼"	7"	3	LC 1200	**5JK08**
1800	6	5-15P	7 ft.	6"	7"	7"	3	LC 1800	**5JK10**
2400	6	5-15P	6 ft.	6"	7"	9½"	3, 6	LC 2400	**5JK11**
2400	14	5-15P	12 ft.	19"	5¼"	5"	2, 5	LCR 2400	**5JK12**

1—Has 3 LEDs (High Voltage, Normal Voltage, Low Voltage). 2—Has 5 LEDs (Very High Voltage, High Voltage, Normal Voltage, Low Voltage, Very Low Voltage). 3—Has 7 LEDs (Very High Voltage, High Voltage, Normal Voltage, Low Voltage, Very Low Voltage, Line Fault, Line OK). 5—Rack mount model. 6—Has 4 NEMA 5-15R; 2 NEMA 5-20R.

PHASE-A-MATIC

Static Phase Converters



No. 2MV45

- No moving parts to wear out
- For light to moderate loads only
- Knockout size: ½"

Quiet, easy-to-install units run 220V, 3-phase AC motors from a 220V, 1-phase power source at ⅔ of the rated horsepower. When used with a belt-driven air compressor, the motor pulley dia. must be reduced by ⅓. For full- or near-full-horsepower applications, the converter can be used to start an additional idler motor, producing even greater horsepower. Can be used for lathes, mills, grinders, drills, saws, metalworking and woodworking equipment, printing equipment, sewing machines, food blenders, mixers, processors, meat grinders, etc.

Note: Not recommended for use in damp or wet locations. The largest motor on your machine must fall within the minimum and maximum ranges of the converter. Please call 1-800-GRAINGER (472-4643) before ordering.

HP Range	Output Amps	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
⅓ to ¾	2.8	5⅛	9½	2⅝	PAM-100HD	**2MV45**
¾ to 1½	5.2	5⅛	9½	2⅝	PAM-200HD	**2MV46**
1 to 3	9.6	5⅛	9½	2⅝	PAM-300HD	**2MV47**
3 to 5	15.2	5⅛	9½	2⅝	PAM-600HD	**2MV48**
4 to 8	22	5⅛	9½	2⅝	PAM-900HD	**2MV49**
8 to 12	33.6	5⅛	12¾	2⅝	PAM-1200HD	**2MV50**

Rotary Phase Converter No. 3EDX1



PHASE-A-MATIC

Rotary Phase Converters

- For heavy-load applications
- Knockout size: 1"

Provide full running 3-phase power to 220V 3-phase motors, normally with full running torque, in multiple-motor, multiple-speed, and resistive applications. Quiet operation. Easy to install. For use in metalworking, woodworking, farm, food processing, and printing equipment; pumps; air conditioners; compressors; elevators; transmitters; lasers; mills; sewing machines; etc. For multiple-motor applications, contact Grainger technical support.

Note: 460V phase converters and voltage stabilizers are available on Grainger.com®.

Output HP*	Input (Amps)	Output Amps	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
1	15	4.2	10	10	15	R-1	**3EDX2**
2	15	6.7	10	10	15	R-2	**3EDX3**
3	20	9.1	12	13	19	R-3	**3EDX4**
5	30	13.9	12	13	19	R-5	**3EDX1**
7	50	23	16	16	16	R-7	**3EDX5**
10	60	28	16	16	16	R-10	**3EDX6**
15	100	42	24	21	31	R-15	**3EDX7**
20	125	55	24	21	31	R-20	**3EDX8**
25	160	70	24	21	31	R-25	**3EDY1**
30	200	82	24	21	31	R-30	**3EDY3**
40	250	102	24	25	32	R-40	**3EDY5**
50	300	126	24	25	32	R-50	**3EDY7**
100	600	235	48	50	64	R-100	**3EDZ4**

**** Typically requires sizing the converter 50% larger or more than the largest HP motor on your machine.***



No. 6LM57



No. 5KB73

TRIPP·LITE

Inverters and Inverter/Chargers

Hardwired units provide consistent, computer-grade AC power output from a DC source. Instantaneous peak output provides up to 200% of continuous output for short durations to start motors.

Pure Sine Wave Inverter/Chargers—Provide stable, microprocessor-controlled output and the pure sine wave power required by equipment such as variable-speed power tools and devices with PFC power supplies. Help your equipment run cooler and last longer, and help prevent the malfunctions and reduced performance that can be caused by substandard power.

Inverter/Chargers—Pass 120VAC power to equipment, keep user-supplied batteries charged, and function as automatic UPS systems when utility power is not available. Frequency control helps equipment perform at its peak. Battery charger is 3-stage selectable. Feature electronic overload shutdown and input polarity protection. Backup time is based on size of user-supplied batteries.

Utility Work Truck Inverters—Ideal for powering lights, tools, and electronic devices from your vehicle battery system. GFCI outlets. No. 4HHH7 is remote controllable (remote included).

Utility Work Truck Inverters/Chargers—Provide quiet mobile power directly from work truck batteries. Can be used as an alternative to portable generators as a backup power source for sump pumps and in other emergency applications. GFCI outlets. Have a built-in charger to maintain supplied batteries. Remote control included. UL Listed.

Input Voltage	Output Voltage	Output Watts	Peak Output Power	No. of Outlets	H	W	D	Mfr. Model	Item No.
Heavy-Duty Inverters with Low-Battery Auto-Off									
12VDC	115VAC	1250W	1250W	2	7.00"	8.75"	9.00"	PV1250FC	**1ZE20**
12VDC	115VAC	2000W	4000W	2	7.25"	8.50"	16.25"	PV2000FC	**6LM57**
24VDC	115VAC	2400W	4800W	2	7.25"	8.50"	16.25"	PV2400FC	**5JK24**
Pure Sine Wave Inverter/Chargers									
24VDC	230VAC	3000W	6000W	—	10.10"	8.90"	12.40"	APSX3024SW	**19N905**
Inverter/Chargers									
12VDC	115VAC	750W	1500W	—	7.00"	8.75"	9.00"	RV750ULHW	**19N906**
12VDC	115VAC	750W	1500W	2	7.00"	8.75"	9.00"	APS750	**5KB73**
12VDC	115VAC	1250W	2500W	—	7.00"	8.75"	9.00"	RV1250ULHW	**19N907**
12VDC	115VAC	1250W	2500W	2	7.00"	8.75"	9.00"	APS1250	**5KB74**
12VDC	115VAC	1250W	2500W	2	7.00"	8.75"	9.00"	EMS1250UL	**19N910**
12VDC	115VAC	1500W	3000W	—	8.00"	10.50"	17.50"	RV1512UL	**19N908**
12VDC	115VAC	2000W	4000W	—	8.00"	10.50"	17.50"	MRV2012UL	**19N909**
12VDC	115VAC	2000W	4000W	—	7.25"	8.50"	16.25"	APS2012	**5JJ86**
24VDC	115VAC	2400W	4800W	—	7.25"	8.50"	16.25"	APS2424	**2GZU5**
36VDC	115VAC	3600W	7200W	—	7.25"	8.50"	16.25"	APS3636VR	**1AYB1**
48VDC	115VAC	2400W	4800W	—	7.25"	8.50"	16.75"	APS2448UL	**2GZR7**
Utility Work Truck Inverters									
12VDC	115VAC	1800W	3600W	2	4.00"	6.00"	15.00"	PV1800GFCI	**6RHW6**
12VDC	115VAC	3000W	6000W	4	4.30"	12.50"	14.80"	PV3000GFCI	**4HHH7**
Utility Work Truck Inverter/Chargers									
12VDC	115VAC	750W	1500W	2	7.00"	8.75"	9.00"	UT750UL	**4HHH8**
12VDC	115VAC	2000W	4000W	2	7.25"	8.50"	16.25"	UT2012UL	**4HHJ1**
Remote Control Module									
For Use With Tripp-Lite Inverters, Includes Remote Control Module, Face Plate, 50 ft. Remote Control Cord, 25 ft. Master Override Cord, LED Labels and Instruction Manual								APSRM4	**2GZU6**

SL Silver Line Series Power Supplies

SOLAHD

- Adjustable input voltages from 100, 120, 200, 230, or 240VAC
- 60/50 Hz
- Operating temp. range: 0° to 50°C
- Short-circuit and overvoltage protection on 5V outputs
- Low output noise: 3mV

Industry-standard footprint has easy screw terminal connection. Linear, low-noise technology provides quiet, smooth DC performance. Tight load and line regulation at 0.05%. Suitable for industrial control and process systems. UL and C-UL Recognized, and CE Certified.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
5VDC	3	100/120/220/230/240VAC	4.84"	3.99"	1.62"	SLS-05-030-1T	**5JV98**
5VDC	6	100/120/220/230/240VAC	4.87"	5.62"	2.5"	SLS050601T	**10G801**
5VDC	9	100/120/220/230/240VAC	7"	4.87"	2.75"	SLS-05-090-1T	**3TA29**
12/15VDC	1.7/1.5	100/120/220/230/240VAC	4.84"	3.99"	1.62"	SLS-12-017T	**5JV99**
12VDC	3.4	100/120/220/230/240VAC	4.87"	5.62"	2.5"	SLS-12-034T	**5JW01**
12VDC	5.1	100/120/220/230/240VAC	7"	4.87"	2.75"	SLS12051T	**10G802**
12VDC	6.8	100/120/220/230/240VAC	9"	4.87"	2.75"	SLS-12-068T	**3TA30**
15VDC	4.5	100/120/220/230/240VAC	7"	4.87"	2.75"	SLS15045T	**10G803**
15VDC	6	100/120/220/230/240VAC	9"	4.87"	2.75"	SLS15060T	**10G804**
24VDC	1.2	100/120/220/230/240VAC	4.84"	3.99"	1.62"	SLS-24-012T	**5JW02**
24VDC	2.4	100/120/220/230/240VAC	4.87"	5.62"	2.5"	SLS-24-024T	**5JW03**
24VDC	3.6	100/120/220/230/240VAC	7"	4.87"	2.75"	SLS-24-036T	**5JW04**
24VDC	4.8	100/120/220/230/240VAC	9"	4.87"	2.75"	SLS-24-048T	**5JW05**
24VDC	7.2	100/120/220/230/240VAC	13.98"	4.87"	2.75"	SLS-24-072T	**5JW06**
24VDC	12	100/120/220/230/240VAC	16.85"	4.92"	3.46"	SLS-24-120T	**5JW07**



No. 5JV98


No. 33NT16


No. 33NT10

Dayton

Power Supplies

Designed with narrow width that conserves valuable space on DIN rail. Adjustable output voltage compensates for voltage drop. Touch-safe enclosure and terminals. Capable of parallel connection to provide redundancy for critical load applications.

Output Voltage	Output Amps	Input Voltage	W	H	D	Item No.
Plastic Case						
12VDC	1.25	90 to 264VAC	0.90"	3.54"	4.02"	**33NT15**
12VDC	2.5	90 to 264VAC	0.90"	3.54"	4.02"	**33NT16**
12VDC	4.17	90 to 264VAC	1.26"	3.54"	4.02"	**33NT17**
24VDC	0.63	90 to 264VAC	0.90"	3.54"	4.02"	**33NT18**
24VDC	1.25	90 to 264VAC	0.90"	3.54"	4.02"	**33NT19**
24VDC	2.1	90 to 264VAC	1.26"	3.54"	4.02"	**33NT20**
48VDC	1	90 to 264VAC	1.26"	3.54"	4.02"	**33NT21**
Metal Case						
24VDC	2.5	90 to 264VAC	1.97"	4.88"	4.13"	**33NT10**
24VDC	3.3	90 to 264VAC	1.26"	4.88"	4.02"	**33NT11**
24VDC	5	90 to 264VAC	1.57"	4.88"	4.45"	**33NT12**
24VDC	10	90 to 264VAC	2.36"	4.88"	4.45"	**33NT13**
24VDC	20	90 to 264VAC	6.14"	4.96"	5.12"	**33NT14**


No. 10G785

SDN Series DC Power Supplies (DIN Mounted)

SOLAHD

- Can be connected in parallel
- 24VDC output models are adjustable from 22.5 to 28VDC
- C-series: ATEX, class 2/zone 2 per NEC codes and IECEx

Feature narrow width on DIN rail for space-critical applications, rugged metal case, and DIN connector. Large, sturdy, multiple-point screw terminations for quick connection. High-efficiency >88%, switching power supply. Extra boost capacity for high inrush loads without foldback or shutdown. Auto-select voltage input. For industrial control and process control applications including DC input solenoids, valves, switches (prox switches), relays, PLCs, and sensors. UL and C-UL Listed, and CE Certified. Meet SEMI F47 SAG Immunity.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
C Series							
24VDC	5	85 to 264VAC	1.97"	4.85"	4.36"	SDN5-24-100C	**5DJL8**
24VDC	10	85 to 264VAC	2.36"	4.85"	4.36"	SDN10-24-100C	**5DJL9**
24VDC	10	380 to 480VAC	2.36"	4.85"	4.36"	SDN10-24-480C	**10G785**
24VDC	20	85 to 264VAC	3.42"	4.85"	4.98"	SDN20-24-100C	**5DJN0**
24VDC	40	380 to 480VAC	7.09"	4.85"	4.66"	SDN40-24-480C	**10G790**
P Series							
12VDC	9	115 to 230VAC	2.56"	4.88"	4.55"	SDN9-12-100P	**5DJL5**
12VDC	16	115 to 230VAC	3.23"	4.88"	4.55"	SDN16-12-100P	**5DJL7**
24VDC	2.5	85 to 264VAC	1.97"	4.88"	4.55"	SDN2.5-24-100P	**3WY62**
24VDC	3.8	115 to 230VAC	2.56"	4.88"	4.55"	SDN4-24-100LP	**3WY63**
24VDC	5	115 to 230VAC	2.56"	4.88"	4.55"	SDN5-24-100P	**3WY64**
24VDC	10	115 to 230VAC	3.26"	4.88"	4.55"	SDN10-24-100P	**3WY65**
48VDC	5	115 to 230VAC	3.23"	4.88"	4.55"	SDN5-48-100P	**5DJL6**
Redundant Modules							
24VDC	20	24VDC	1.97"	4.88"	4.55"	SDN 2.5-20RED	**10G787**
24VDC	40	24VDC	2.56"	4.88"	4.55"	SDN30/40RED	**10G789**


No. 4FB82


No. 1GYK4

SDP Series DC Power Supplies (DIN Mounted)

SOLAHD

- Class 2 limited power source
- Adjustable output voltage
- Operating temp. range: -10° to 60°C, full power
- Short-circuit protection
- Low output noise: <50mV p/p
- DC OK signal

Easy-to-install units provide clean, stable DC power with a special industrial overload design that can start high inrush loads without oversizing. Compact and lightweight, with no derating necessary until above 60°C. DIN rail mount. cULus Recognized Component. Meet UL, C-UL, CE, and Class 2 NFPA 70, except No. 1GYK4 meets UL, C-UL, and CE standards.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
5 to 6VDC	5	85 to 264VAC	1.77"	2.95"	3.58"	SDP5-5-100T	**4FB83**
10 to 12VDC	2.5 to 3	85 to 264VAC	1.77"	2.95"	3.58"	SDP2-12-100T	**4DA92**
12 to 15VDC	3.4 to 4.2	85 to 264VAC	1.77"	2.95"	3.58"	SDP3-15-100T	**4FB84**
24 to 28VDC	0.6	85 to 264VAC	0.9"	2.95"	3.8"	SDP06-24-100T	**4FB82**
24 to 28VDC	1.3	85 to 264VAC	1.77"	2.95"	3.58"	SDP1-24-100T	**4DA90**
24 to 28VDC	2.1	85 to 264VAC	1.77"	2.95"	3.58"	SDP2-24-100T	**4DA91**
24 to 28VDC	3.8	85 to 132VAC, 176 to 264VAC	2.85"	2.95"	3.8"	SDP4-24-100LT	**1GYK4**
24 to 28VDC	4.2	85 to 132VAC, 176 to 264VAC	2.85"	2.95"	3.8"	SDP4-24-100RT	**10G792**
48 to 56VDC	1	85 to 264VAC	1.77"	2.95"	3.58"	SDP1-48-100T	**4FB85**

DC Power Supplies (DIN Mounted)

EATON

- 60/50 Hz
- Operating temp. range: -20° to 80°C
- Short-circuit and overvoltage protection
- Low output noise: <50mV
- DC OK signal

Switching-style units provide clean, stable DC power for a variety of industrial applications. Simple screw terminal connections allow easy installation, and the narrow footprint permits installation in applications where space is at a premium. Hold up time: >22 msec. UL Listed. CSA and CE Certified. IEC, EN.

Output Voltage	Output Amps	Peak Amps	Input Voltage	Case Material	W	H	D	Mfr. Model	Item No.	
1-Phase										
12VDC	1.25	1.88	100 to 240VAC	Plastic Case	1.26"	3.94"	4.76"	PSG15E12SP	**31HL49**	
12VDC	2.50	3.75	100 to 240VAC	Plastic Case	1.26"	3.98"	4.76"	PSG30E12SP	**31HL53**	
12VDC	5	7.50	100 to 240VAC	Aluminum Case	1.26"	4.53"	4.76"	PSG60E12SM	**31HL60**	
12VDC	8.30	12.49	100 to 240VAC	Aluminum Case	1.97"	4.69"	4.76"	PSG100E12SM	**31HL45**	
24VDC	2.50	3.75	100 to 240VAC	Aluminum Case	1.26"	4.72"	4.76"	PSG60E	**31HL59**	
24VDC	2.50	3.75	100 to 240VAC	Plastic Case	1.26"	4.45"	4.76"	PSG60E24SP	**31HL62**	
24VDC	3.75	3.75	100 to 240VAC	Aluminum Case	1.26"	4.92"	4.76"	PSG60E24RM	**31HL61**	*
24VDC	5	7.5	100 to 240VAC	Aluminum Case	1.97"	4.84"	4.76"	PSG120E24RM	**31HL47**	*
24VDC	5	7.50	100 to 240VAC	Aluminum Case	1.26"	4.72"	4.76"	PSG120E	**31HL46**	
24VDC	10	15	100 to 240VAC	Aluminum Case	3.35"	4.69"	4.76"	PSG240E	**31HL50**	
24VDC	10	15	100 to 240VAC	Aluminum Case	3.35"	4.88"	4.76"	PSG240E24RM	**31HL51**	*
24VDC	20	30	100 to 240VAC	Aluminum Case	6.30"	4.53"	4.76"	PSG480E	**31HL55**	
24VDC	20	30	100 to 240VAC	Aluminum Case	5.67"	4.88"	4.76"	PSG480E24RM	**31HL56**	*
3-Phase										
24VDC	2.50	3.75	320 to 600VAC	Aluminum Case	1.97"	4.61"	4.76"	PSG60F24RM	**31HL63**	*
24VDC	5	7.50	320 to 600VAC	Aluminum Case	1.97"	4.61"	4.76"	PSG120F24RM	**31HL48**	*
24VDC	10	15	320 to 600VAC	Aluminum Case	2.76"	4.61"	4.76"	PSG240F24RM	**31HL52**	*
24VDC	20	30	320 to 600VAC	Aluminum Case	5.51"	4.61"	4.76"	PSG480F24RM	**31HL57**	*
24VDC	40	60	320 to 600VAC	Aluminum Case	10.04"	4.61"	4.76"	PSG960F24RM	**31HL65**	*
Buffer Module										
24VDC	20	20	24VDC	Aluminum Case	1.97"	4.80"	4.76"	PSG480B24RM	**31HL54**	*
NEC Class 2										
24VDC	2.50	2.50	100 to 240VAC	Plastic Case	1.26"	4.69"	4.76"	PSG60N24RP	**31HL64**	*
Redundancy Module										
24VDC	20	20	24 to 48VDC	Aluminum Case	1.97"	4.80"	4.76"	PSG480R24RM	**31HL58**	*
24VDC	40	40	24 to 48VDC	Aluminum Case	1.97"	4.80"	4.76"	PSG960R24RM	**31HL66**	*

** Finger safe terminals.*


No. 31HL47

PULS

Switching Power Supplies

C-SERIES

These power supplies are highly reliable in a compact metal housing with a power range from 80 to 480W. Additional features include high efficiency, long life, 20% current reserves, extremely low AC inrush, screw terminals, Class I, Div. 2 approval and a temperature range of -25° to 70°C. Units are available in single or 3-phase with output voltages from 12 to 56VDC.

MINILINE

These compact, lightweight power supplies in a robust plastic housing cover low-power requirements from 15 to 100W. Additional features include a wide temperature range with select models rated down to -40°C, spring clamp terminals on standard models, and screw terminals on the compact models. These units are available with output voltages from 5 to 56VDC with a single-phase input or select models with 380-480VAC.

Q-SERIES

With state-of-the-art technology and flexibility for demanding tasks, these power supplies are highly reliable in a compact metal housing with a power range from 80 to 960W. Additional features include outstanding efficiency, long life, 50% current reserves, extremely low AC inrush, DC OK contact and a temperature range of -25° to 70°C. Units are available in single or 3-phase input with output voltages from 12 to 55VDC and an extensive agency approval package.

SILVERLINE

Designed for general applications with a proven track record for over 20 years, the SilverLine model offers reliability in a metal housing. Additional features include high efficiency, long life, 20% current reserves, screw terminals and a temperature range of -10° to 70°C. Units are available in single or 3-phase input with output voltages from 12 to 56VDC.



No. 45ET77



No. 45ET70



No. 45ET86

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
C-Series							
24 to 28VDC	3.3	100 to 240VAC	32mm	124mm	102mm	CS3.241	**45ET79**
24 to 28VDC	5.0	100 to 120VAC, 200 to 240VAC	32mm	124mm	117mm	CS5.241	**45ET80**
24 to 28VDC	10.0	100 to 120VAC, 200 to 240VAC	60mm	124mm	117mm	CS10.241	**45ET77**
24 to 28VDC	10.0	380 to 480VAC	62mm	124mm	117mm	CT10.241	**45ET81**
24 to 28VDC	20.0	100 to 240VAC	65mm	124mm	127mm	CPS20.241	**45ET76**
48 to 52VDC	5.0	100 to 120VAC, 200 to 240VAC	60mm	124mm	117mm	CS10.481	**45ET78**
MiniLine							
5 to 5.5VDC	3.0	100 to 240VAC	22.5mm	75mm	91mm	ML15.051	**45ET70**
5 to 5.5VDC	5.0	100 to 240VAC	45mm	75mm	91mm	ML30.101	**45ET87**
10 to 12VDC	3.0	100 to 240VAC	45mm	75mm	91mm	ML30.102	**45ET88**
12 to 15VDC	1.3	100 to 240VAC	22.5mm	75mm	91mm	ML15.121	**45ET71**
12 to 15VDC	4.5	100 to 240VAC	45mm	75mm	91mm	ML60.121	**45ET74**
12 to 15VDC	7.5	100 to 120VAC, 200 to 240VAC	72.5mm	75mm	103mm	ML100.102	**45ET86**
24 to 28VDC	0.63	100 to 240VAC	22.5mm	75mm	91mm	ML15.241	**45ET72**
24 to 28VDC	1.3	100 to 240VAC	22.5mm	75mm	91mm	ML30.241	**45ET73**
24 to 28VDC	2.5	100 to 240VAC	45mm	75mm	91mm	ML60.241	**45ET75**
24 to 28VDC	3.9	100 to 120VAC, 200 to 240VAC	72.5mm	75mm	103mm	ML95.100	**45ET91**
24 to 28VDC	4.2	100 to 120VAC, 200 to 240VAC	72.5mm	75mm	103mm	ML100.100	**45ET85**
48 to 56VDC	1.05	100 to 240VAC	45mm	75mm	91mm	ML50.105	**45ET90**
±12/15VDC	1.4-2.8	100 to 240VAC	45mm	75mm	91mm	ML30.106	**45ET89**
Q-Series							
12 to 15VDC	15.0	100 to 240VAC	60mm	124mm	117mm	QS10.121	**45ET82**
24 to 28VDC	20	380 to 480VAC	65mm	124mm	127mm	QT20.241	**45ET83**
24 to 28VDC	40.0	380 to 480VAC	110mm	124mm	127mm	QT40.241	**45ET84**
SilverLine							
24VDC	4.0	100 to 120VAC, 200 to 240VAC	65mm	124mm	102mm	SL4.100	**45ET92**

OMRON
INDUSTRIAL AUTOMATION

Switching Power Supplies

- 100-240VAC, 60 Hz
- DIN rail mount
- Temp. range: -13° to 149°F

Versatile units provide a wide range of power ratings, output voltages, and styles, matching most design and performance requirements. UL Listed (508), and CE Certified. S8VS and S8VM models are also C-UL Listed. S8JX models are also CSA and EN/VDE Approved.

S8VK SERIES

- **Class 2 output on 15, 30, and 60W models**

This compact class has a robust design and construction to withstand harsh environments and provide stable operation over a wide operating temperature range: -40° to 158°F. Minimal wiring requirements and easy 1-handed mounting with enhanced DIN rail mounting clips.

COMPACT PLASTIC CASE, S8VS SERIES

- Class 2 output on 60W models
- SEMI F47

Feature LED display maintenance forecast monitor, which shows output voltage, current, peak current, and lifetime in years.



Compact Case
No. 21XP04



Compact Plastic Case with Maintenance Monitor
No. 2REJ8

Output Voltage	Output Amps	Input Voltage	Power Rating	W	H	D	Mfr. Model	Item No.
S8VK, Compact Case								
5VDC	3	100 to 240VAC	15W	22mm	90mm	90mm	S8VK-G015	**21XP02**
5VDC	5	100 to 240VAC	30W	32mm	90mm	90mm	S8VK-G030	**21XP05**
12VDC	1.2	100 to 240VAC	15W	22mm	90mm	90mm	S8VK-G015	**21XP03**
12VDC	2.5	100 to 240VAC	30W	32mm	90mm	90mm	S8VK-G030	**21XP06**
12VDC	4.5	100 to 240VAC	60W	32mm	90mm	110mm	S8VK-G060	**21XP08**
24VDC	0.65	100 to 240VAC	15W	22mm	90mm	90mm	S8VK-G015	**21XP04**
24VDC	1.3	100 to 240VAC	30W	32mm	90mm	90mm	S8VK-G030	**21XP07**
24VDC	2.5	100 to 240VAC	60W	32mm	90mm	110mm	S8VK-G060	**21XP09**
24VDC	5	100 to 240VAC	120W	40mm	125mm	122mm	S8VK-G120	**21XP10**
24VDC	10	100 to 240VAC	240W	60mm	125mm	150mm	S8VK-G240	**21XP11**
24VDC	20	100 to 240VAC	480W	95mm	125mm	150mm	S8VK-G480	**21XP13**
48VDC	5	100 to 240VAC	240W	60mm	125mm	150mm	S8VK-G240	**21XP12**
48VDC	10	100 to 240VAC	480W	95mm	125mm	150mm	S8VK-G480	**21XP14**
S8VS Series, Compact Plastic Case with Maintenance Monitor								
24VDC	2.5	100 to 240VAC	60W	40mm	95mm	108mm	S8VS-060A	**2REJ8**
24VDC	3.75	100 to 240VAC	90W	50mm	115mm	121mm	S8VS-090A	**2REK1**
24VDC	5	100 to 240VAC	120W	50mm	115mm	121mm	S8VS-120A	**2REK3**
24VDC	7.5	100 to 240VAC	180W	75mm	115mm	125mm	S8VS-180A	**2REK5**
24VDC	10	100 to 240VAC	240W	3.94"	115mm	125mm	S8VS-240A	**2REK7**
24VDC	20	100 to 240VAC	480W	150mm	115mm	127mm	S8VS-480A	**2XN77**



Plastic Case
No. 5AEU0



Metal Case
No. 5AET0

Phaseo® Power Supplies

Schneider Electric

- 60/50 Hz
- DIN rail mount
- SEMI F47, except Nos. 5AER9 and 5AET0

Feature LED status indicator light. UL Listed, CSA and CE Certified.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.	
Plastic Case								
5VDC	4	100 to 240VAC, 120 to 250VDC	2.12"	4.33"	2.32"	ABL8MEM05040	**5AEU0**	
12VDC	5	100 to 240VAC, 110 to 220VDC	4.72"	4.72"	2.12"	ABL7RP1205	**5AET1**	
24VDC	0.3	100 to 240VAC, 120 to 250VDC	1.42"	4.33"	2.32"	ABL8MEM24003	**5AET3**	
24VDC	0.6	100 to 240VAC, 120 to 250VDC	1.42"	4.33"	2.32"	ABL8MEM24006	**5AET5**	
24VDC	1.2	100 to 240VAC, 120 to 250VDC	2.12"	4.33"	2.32"	ABL8MEM24012	**5AET7**	
24VDC	2.5	100 to 240VAC	2.83"	4.33"	2.32"	ABL7RM24025	**22P064**	
24VDC	3	100 to 120VAC, 200 to 500VAC	4.72"	5.27"	1.73"	ABL8RPS24030	**36T736**	
24VDC	3	100 to 240VAC, 110 to 220VDC	1.06"	4.72"	4.72"	ABL8REM24030	**5AET9**	
24VDC	5	100 to 120VAC, 200 to 500VAC	4.72"	5.27"	2.2"	ABL8RPS24050	**36T737**	
24VDC	5	100 to 240VAC, 110 to 220VDC	2.12"	4.72"	4.72"	ABL8REM24050	**5AET4**	
24VDC	10	100 to 120VAC, 200 to 500VAC	5.51"	5.27"	3.35"	ABL8RPS24100	**5AET6**	
24VDC	20	100 to 120VAC, 200 to 240VAC	5.51"	5.63"	5.71"	ABL8RPM24200	**5AET8**	
24VDC	20	380 to 500VAC	6.1"	5.63"	3.74"	ABL8WPS24200	**36T738**	
24VDC	40	380 to 500VAC	6.1"	5.63"	6.5"	ABL8WPS24400	**36T739**	
48VDC	3	100 to 240VAC, 110 to 220VDC	4.72"	4.72"	2.12"	ABL7RP4803	**36T735**	
Metal Case								
12VDC	5	100 to 240VAC, 120 to 370VDC	5.91"	3.9"	1.5"	ABL1REM12050	**36T740**	
12VDC	8.3	100 to 240VAC, 120 to 370VDC	7.87"	3.9"	1.5"	ABL1RPM12083	**36T743**	*
24VDC	2.5	100 to 240VAC, 120 to 370VDC	1.5"	3.9"	5.91"	ABL1REM24025	**5AER9**	
24VDC	4.2	100 to 240VAC, 120 to 370VDC	7.8"	3.9"	1.5"	ABL1REM24042	**36T741**	
24VDC	4.2	100 to 240VAC, 120 to 370VDC	7.87"	3.9"	1.5"	ABL1RPM24042	**36T744**	*
24VDC	6.2	100 to 120VAC, 200 to 240VAC	2"	3.9"	1.9"	ABL1REM24062	**36T742**	
24VDC	6.2	100 to 120VAC, 200 to 240VAC	2"	3.9"	1.97"	ABL1RPM24062	**36T745**	*
24VDC	10	100 to 120VAC, 200 to 240VAC	7.87"	3.9"	2.56"	ABL1RPM24100	**36T746**	*
24VDC	10	100 to 120VAC, 200 to 240VAC, 180 to 370VDC	2.6"	3.9"	7.8"	ABL1REM24100	**5AET0**	

**** Rated IEC/EN 61000-3-2.***



No. 5JK22

Precision-Regulated DC Power Supplies

TRIPP-LITE

Efficiently convert 120VAC to 13.8VDC while protecting against overcurrent. Crowbar protection on units larger than 15A prevents damage to connected equipment. Regulated output voltage maintains up to 95% of no-load value. A heavy-duty power transformer provides complete isolation from noise on incoming AC power. Chassis-mount fuse included. No. 30EF37 is programmable and includes instruction manual with warranty information.

Output Volts (DC)	Output Current (A)	Input Voltage	W	H	D	Mfr. Model	Item No.
13.8	3	120	3.50"	5.50"	7.0"	PR3UL	**30EF37**
13.8VDC	7	120VAC	6.5"	3.75"	7.5"	PR 7	**5JK22**
13.8VDC	9.5	120VAC	6.75"	4.5"	7.75"	PR 12	**5JK18**
13.8VDC	20	120VAC	6.75"	6.75"	10.25"	PR 25	**5JK19**
13.8	40	120VAC	10.5"	6.75"	11.5"	PR 40	**5JK20**
13.8VDC	48	120VAC	10.5"	6.75"	11.5"	PR 60	**5JK21**



No. 12A051



No. 12A042

SITOP Power Supplies

SIEMENS

Feature a slim, space-saving design with high efficiencies across the entire load range. The Compact models reduce temperature dissipation in a cabinet and save energy costs. These switched-mode power supplies have plug-in terminals for simple electrical connection and minimized connection time. Ideal for low-power applications. The Modular models feature power boost functionality that supplies up to 3 times the rated current, allowing free start-up of loads with high inrush current. They also offer a robust metal design, and a comprehensive set of certifications. Ideal for demanding and complex applications.

Output Voltage	Power Rating	Input Voltage	Mounting	Output Amps	Peak Amps	Hold Up Time	H	W	D	Mfr. Model	Item No.
Compact Switching, Metal Case											
	140W	85 to 264VAC, 176 to 550VAC	DIN Rail	5	15	25 msec	4.92"	2.75"	4.76"	6EP13333BA10	**38UZ91**
	240W	85 to 264VAC, 176 to 550VAC	DIN Rail	10	30	—	—	—	—	6EP13343BA10	**38UZ92**
24VDC	480W	85 to 275VAC, 88 to 350VDC	DIN Rail	20	60	>20 msec	125mm	90mm	125mm	6EP1336-3BA10	**12A048**
	960W	85 to 132VAC, 176 to 264VAC	DIN Rail	40	120	>20 msec	125mm	240mm	125mm	6EP1337-3BA00	**12A049**
	960W	320 to 575VAC	DIN Rail	40	120	>15 msec	125mm	150mm	150mm	6EP1437-3BA10	**12A051**
48VDC	960W	320 to 575VAC	DIN Rail	20	60	>6 msec	125mm	240mm	125mm	6EP1457-3BA00	**12A053**
Compact Switching, Plastic Case											
12VDC	78W	120 to 230VAC, 110 to 300VDC	DIN Rail	6.5	31	>20 msec	80mm	52mm	100mm	6EP13225BA10	**20AZ53**
	14W	85 to 264VAC, 110 to 300VDC	DIN Rail	0.6	1	>20 msec	80mm	22mm	100mm	6EP1331-5BA00	**12A042**
	30W	85 to 264VAC, 110 to 300VDC	DIN Rail	1.3	3.1	>20 msec	80mm	30mm	100mm	6EP1331-5BA10	**12A043**
	60W	85 to 264VAC, 110 to 300VDC	DIN Rail	2.5	3	>20 msec	80mm	45mm	100mm	6EP1332-5BA00	**12A044**
24VDC	60W	120 to 230VAC	DIN Rail	2.5	27	>20 msec	125mm	32mm	120mm	6EP13321LB00	**20AZ55**
	96W	85 to 264VAC, 110 to 300VDC	DIN Rail	4	4.8	>20 msec	80mm	52mm	100mm	6EP1332-5BA10	**12A045**
	120W	93 to 187VAC, 132 to 264VAC	DIN Rail	5	32	>20 msec	125mm	50mm	120mm	6EP13331LB00	**20AZ56**
	240W	93 to 187VAC, 132 to 264VAC	DIN Rail	10	65	>20 msec	125mm	70mm	120mm	6EP13341LB00	**20AZ57**
Harsh Environment, Switching, Aluminum Case, IP Rating 67											
24VDC	120W	120 to 230VAC	Wall	5	15	40 msec	181mm	120mm	60.5mm	6EP13337CA00	**32UL18**
	192W	120 to 230VAC	Wall	8	15	40 msec	181mm	120mm	60.5mm	6EP13347CA00	**32UL19**
Modular Switching, Aluminum Case											
12VDC	36W	85 to 264VAC	Wall	3	60	>15 msec	98mm	97mm	38mm	6EP13211LD00	**20AZ58**
	100W	85 to 264VAC	Wall	8.3	75	>15 msec	158mm	97mm	38mm	6EP13221LD00	**20AZ59**
	50W	100 to 240VAC	Wall	2.1	60	>15 msec	128mm	97mm	38mm	6EP13311LD00	**20AZ60**
	75W	85 to 264VAC	Wall	3.1	60	>15 msec	128mm	97mm	38mm	6EP13321LD00	**20AZ61**
24VDC	100W	85 to 264VAC	Wall	4.1	75	>15 msec	158mm	97mm	38mm	6EP13321LD10	**20AZ62**
	150W	85 to 264VAC	Wall	6.2	75	>15 msec	178mm	97mm	38mm	6EP13331LD00	**20AZ63**
	300W	85 to 264VAC	Wall	12.5	60	>15 msec	199mm	105mm	41mm	6EP13341LD00	**20AZ64**

UPS Systems

Provide cost-effective backup power and power protection for critical equipment. Agency approved.

STANDBY

For basic battery backup to support individual computers and PLC applications. ECO high-efficiency models Nos. 4HHH4, 4HHH5, and 4HHH6 support green energy savings with select surge-only outlets that can be configured to automatically power off.

LINE INTERACTIVE

Provide nominal, conditioned 120VAC for applications in which fluctuating voltage (low/high) affects equipment operation. Units also provide backup power during power blackout conditions.

SMART TRUE-ON-LINE

For mission-critical applications. Double-conversion online operation with zero transfer time to battery isolates sensitive equipment from every power problem.

LINE INTERACTIVE

Meet strict leakage requirements for medical equipment used in nonlife-support applications (UL 60601-1). Keep computers working through routine emergency power checks, low voltage (brownout), and high voltage conditions without using battery power. Also provide portable power for computers on carts.

TRIPP·LITE

Power Rating	Watts	Input Voltage	Backup Time (Half/ Full Load)	NEMA Plug Config.	No. of Outlets	W	H	D	Foot-notes	Mfr. Model	Item No.
Standby											
350VA	180W	120VAC	10/2.5 min.	5-15P	6	8.0"	3.0"	6.4"	4,6	BC350	**30UJ37**
350VA	180W	120VAC	11/3 min.	5-15P	6	8.0"	3.0"	6.4"	4,6	ECO350UPS	**4HHH4**
350VA	180W	120VAC	12/4 min.	5-15P	6	8.0"	3.0"	6.4"	4,6	INTERNET350U	**4GU32**
500VA	280W	120VAC	15/4 min.	5-15P	6	5.2"	8.2"	7.0"	4,6	INTERNETOFFICE500	**5JK01**
550VA	300W	120VAC	10/3.5 min.	5-15P	8	10.8"	3.1"	5.7"	4,6	ECO550UPS	**4HHH5**
550VA	300W	120VAC	10/3.5 min.	5-15P	8	10.8"	3.1"	5.7"	4,6,9	ECO550UPSTAA	**6FXL7**
550VA	300W	120VAC	10/3.5 min.	5-15P	8	10.8"	3.1"	5.7"	4,6	INTERNET550U	**4GU33**
600VA	375W	120VAC	11.1/3 min.	5-15P	6	5.2"	10.7"	7.5"	4,8	BC600SINE	**13J033**
650VA	325W	120VAC	10/3 min.	5-15P	8	10.8"	3.5"	5.8"	4,6,8	ECO650LCD	**13J028**
700VA	425W	120VAC	17/5 min.	5-15P	6	5.2"	10.8"	7.5"	4,6	INTERNETOFFICE700	**5JJ98**
750VA	450W	120VAC	11.4/2.4 min.	5-15P	12	12.2"	3.1"	6.9"	4,6	INTERNET750U	**30UJ42**
750VA	450W	120VAC	11.5/2.5 min.	5-15P	12	12.2"	3.1"	6.9"	4,6	ECO750UPS	**4HHH6**
750VA	450W	120VAC	11.5/2.5 min.	5-15P	12	12.2"	3.1"	6.9"	4,6,9	ECO750UPSTAA	**6FXL8**
850VA	425W	120VAC	13/2.8 min.	5-15P	12	12.0"	3.5"	7.0"	4,6,8	ECO850LCD	**13J029**
Line Interactive with Voltage Regulation											
500VA	300W	120VAC	11/5 min.	5-15P	3	5.2"	10.8"	7.5"	4	OMNI500ISO	**2GZR2**
550VA	300W	120VAC	9/3 min.	5-15P	8	11.3"	3.5"	6.0"	4,6	AVR550U	**1AYA4**
650VA	350W	120VAC	12/3.5 min.	5-15P	8	3.8"	12.0"	7.2"	4	OMNI650LCD	**15D973**
700VA	450W	120VAC	17/4 min.	5-15P	6	5.2"	10.8"	7.5"	3,4,6	OMNISMART 700	**3TA20**
750VA	450W	120VAC	10/3 min.	5-15P	12	12.0"	4.0"	7.0"	4	AVR750U	**9FG79**
900VA	475W	120VAC	10/3 min.	5-15P	8	3.7"	12.0"	7.2"	4	OMNI900LCD	**2GZR1**
1kVA	500W	120VAC	14/3.5 min.	5-15P	8	5.2"	10.7"	7.5"	4,6	OMNIVS1000	**30UJ44**
1.5kVA	940W	120VAC	13/4.5 min.	5-15P	8	7.2"	13.8"	7.5"	4,6,9	OMNIVS1500XLTAA	**6FXL9**
1.5kVA	810W	120VAC	24/7.5 min.	5-15P	10	5.7"	8.0"	15.4"	4,6	OMNI1500LCDT	**36HV95**
2.2kVA	1.92kW	120/230VAC	30/12 min.	5-20P/C20	8	17.5"	5.2"	25.2"	3,4,8	SM2200RMDVTAA	**14A327**
Intelligent Line Interactive											
550VA	300W	120VAC	15/4 min.	5-15P	6	5.8"	5.0"	6.5"	4,6	SMART550USB	**3WA17**
550VA	300W	120VAC	15/4 min.	5-15P	6	5.0"	8.5"	6.5"	4,6,9	SMART550USBTAA	**6FXN9**
700VA	450W	120VAC	55/22 min.	5-15P	6	9.0"	10.2"	12.5"	3,4,7,8,9	SMART700DV	**6FXP0**
750VA	450W	120VAC	11/3 min.	5-15P	6	5.2"	10.8"	7.5"	4,6	SMART750USB	**6FXP7**
750VA	450W	120VAC	11/3 min.	5-15P	6	5.2"	10.8"	7.5"	4,6,9	SMART750USBTAA	**6FXP1**
750VA	450W	120VAC	16/5.5 min.	5-15P	6	7.2"	11.7"	7.5"	4,12	SMART750	**2KGF6**
1kVA	500W	120VAC	9/3 min.	5-15P	8	3.8"	12.0"	7.2"	4,6,9	SMART1000LCDTAA	**6FXN4**
1kVA	500W	120VAC	10/3 min.	5-15P	8	3.7"	12.0"	7.2"	4,6,15	Smart1000LCD	**1AYA6**
1.05kVA	705W	120VAC	23/8 min.	5-15P	6	7.2"	13.8"	7.2"	4,12	SMART 1050 NET	**5JK30**
1.5kVA	900W	120VAC	13/3.5 min.	5-15P	8	3.5"	17.2"	10.5"	3,4,6	Smart1500LCD	**1AYA5**
1.5kVA	900W	120VAC	20/8 min.	5-15P	8	6.7"	10.2"	13.2"	4,6,8	SMART1500SLT	**30UJ52**
2.2kVA	1.6kW	120VAC	13/5 min.	5-20P	7	8.9"	10.5"	12.5"	3,4,7,8	SMART2200SLT	**6FXP6**
2.2kVA	1.6kW	120VAC	13/5 min.	5-20P	7	8.9"	10.5"	12.5"	3,4,7,8,9	SMART2200SLTAA	**6FXN7**
2.2kVA	1.77kW	120VAC	27/11 min.	5-15P	6	9.0"	17.0"	12.5"	1,3,10,12	SMART 2200 NET	**5JK33**
Intelligent Line Interactive, Rack Mount											
500VA	300W	120VAC	8/3 min.	5-15P	7	17.5"	1.7"	11.5"	3,4,10,12	SMART500RT1U	**4GU31**
750VA	450W	120VAC	13/5 min.	5-15P	6	17.5"	1.7"	16.8"	3,4,10,12	Smart750RM1U	**1AYA7**
1kVA	640W	120VAC	14/4 min.	5-15P	6	17.5"	1.7"	16.8"	3,4,10,12	SMART1000RM1U	**5JK31**
1kVA	700W	120VAC	17/7 min.	5-15P	6	17.5"	3.5"	13.5"	3,4,7,8,9	SM1000RM2UTAA	**6FXN0**
1.5kVA	900W	120VAC	12/4 min.	5-15P	8	17.3"	3.5"	10.5"	3,4,6	SMART1500LCDXL	**15D972**
1.5kVA	1kW	120VAC	19/7 min.	5-15P	8	17.5"	3.5"	13.5"	3,4,10,12	Smart1500RM2U	**1AYA8**
1.5kVA	1kW	120VAC	21/7.5 min.	5-15P	8	17.5"	3.5"	13.5"	3,4,7,8,9	SM1500RMXL2UTAA	**6FXN1**
2.2kVA	1.92kW	120VAC	12/4.5 min.	5-15P	4	17.3"	3.4"	19.5"	4,8	SMART2200RM2U	**30UJ55**
2.2kVA	1.6kW	120VAC	16/6 min.	5-20P	8	17.5"	3.5"	19.0"	3,4,7,8,9	SM2200RMXL2UTAA	**6FXN2**
2.2kVA	1.6kW	120VAC	16/6 min.	5-20P	8	17.5"	3.5"	19.0"	1,2,3,4,10,12	Smart2200RMXL2U	**1AYA9**
3kVA	2.88kW	120VAC	10/3 min.	L5-30P	9	17.5"	3.5"	19.0"	3,4,7,8,9	SM3000RMXL2UTAA	**6FXN3**
3kVA	2.25kW	120VAC	11/4 min.	L5-30P	9	17.0"	3.5"	19.0"	1,3,4,10,12	SMART3000RM2U	**5JK35**
5kVA	4kW	208VAC	38/16 min.	L6-30P	14	17.5"	5.2"	22.5"	3,4,9	SMART5000RT3U	**6FXN8**
Smart True-On-Line/Double Conversion											
1.5kVA	1.2kW	120VAC	14/4.5 min.	5-15P	6	9.0"	10.2"	19.5"	4,6,8	SU1500XL	**30UJ70**
3kVA	2.4kW	110/120VAC	14/5 min.	L5-30P	9	9.0"	10.3"	20.5"	1,2,3,4,6,10,12	SU3000XL	**2GZR5**
Smart True-On-Line/Double Conversion, Rack Mount											
1kVA	800W	100/110/120VAC	14/4.5 min.	5-15P	6	17.5"	3.5"	13.5"	1,2,3,4,6,10,12	SU1000RTXL2UA	**3WA13**
1.5kVA	1.2kW	100/110/120VAC	14/5 min.	5-15P	6	17.5"	3.5"	19.0"	3,4,6,7,8	SU1500RTXL2Ua	**6FXP9**
2.2kVA	1.6kW	110/120VAC	14/4.5 min.	5-20P	7	17.5"	3.5"	19.0"	1,2,3,4,10,12	SU2200RTXL2UA	**3WA14**
3kVA	2.5kW	120VAC	15/6 min.	L5-30P	7	17.3"	3.5"	26.0"	4,8	SU3000RTXL2U	**30UJ72**
3kVA	2.5kW	230VAC	15/6 min.	5-15P	10	17.3"	3.5"	26.0"	4,8	SUINT3000RTXL2U	**30UJ84**
3kVA	2.4kW	110/120VAC	30/12 min.	L5-30P	9	17.8"	5.2"	26.0"	1,2,3,4,6,8,10,12	SU3000RTXL3U	**3WA18**
5kVA	3.8kW	120/208/240VAC	14/6 min.	L14-30P	12	17.5"	7.0"	30.8"	1,3,4,10,12	SU5000RT4U	**2GZU2**
6kVA	4.2kW	120/208/240VAC	20/8 min.	L14-30P	12	17.5"	7.0"	30.8"	1,3,4,10,12	SU6000RT4U	**2GZU1**
8kVA	6.4kW	208VAC	13.5/5.5 min.	Not Applicable	18	17.5"	5.3"	25.8"	1,2,3,12	SU8000RT3U1TF	**2GZT9**
8kVA	6.4kW	208VAC	13.5/5.5 min.	Not Applicable	18	17.5"	5.3"	25.8"	1,2,3,12,20	SU8000RT3UN50TF	**3ACG1**
10kVA	8kW	208VAC	12.5/4.3 min.	Not Applicable	30	17.5"	5.3"	25.8"	1,2,3,12	SU10000RT3U2TF	**2GZT8**
10kVA	8kW	208/240VAC	12.5/4.3 min.	Not Applicable	0	17.5"	5.3"	25.8"	1,2,3,12	SU10KRT3U	**2GZT7**
12kVA	10.8kW	200/208/220/230/240VAC	8.5/2 min.	Not Applicable	0	17.5"	6.8"	20.7"	2,3,4,8	SU12KRT4UHW	**14A328**
16kVA	11.2kW	120/208/240VAC	12/5 min.	Not Applicable	13	17.5"	7.0"	40.5"	1,3,4,12,20	SU16000RT4U	**3ACF9**
16kVA	14.4kW	200/208/220/230/240VAC	13.5/5.5 min.	Not Applicable	8	17.5"	5.3"	25.8"	2,3,4,8	SU16KRTG	**14A329**
16kVA	14.4kW	200/208/220/230/240VAC	13.5/5.5 min.	Not Applicable	0	17.5"	5.3"	25.8"	2,3,4,8	SU16KRTHW	**14A330**
20kVA	18kW	200/208/220/230/240VAC	12.5/4.3 min.	Not Applicable	8	17.5"	5.3"	25.8"	2,3,4,8	SU20KRTG	**14A331**
20kVA	18kW	200/208/220/230/240VAC	12.5/4.3 min.	Not Applicable	0	17.5"	5.3"	25.8"	2,3,4,8	SU20KRTHW	**14A332**
Line Interactive											
330VA	225W	120VAC	46/18 min.	5-15P	4	5.2"	10.7"	7.2"	3,6,14	OMNISMART350HG	**3RY95**
700VA	450W	120VAC	42/18 min.	5-15P	4	7.5"	12.7"	9.0"	3,4,14	SMART 700 HG	**5JK37**
1kVA	750W	120VAC	27.5/11 min.	5-15P	4	7.5"	12.7"	9.0"	1,3,4,12,14	SMART1200XLHG	**3RY93**
Accessories, TAA-GSA Compliant											
UPS Battery, For Use With Tripp Lite Model Numbers: SM2200RMXL2UTAA, SM3000RMXL2UTAA										BP48V242UTAA	**6FXL5**
UPS Battery, For Use With Tripp Lite Model Numbers: SM2200RMXL2UTAA, SM3000RMXL2UTAA										BP48V60RT3UTAA	**6FXL6**



Standby, ECO High-Efficiency No. 4HHH4



Intelligent Line Interactive No. 5JK33



Smart True-Online No. 3WA13

Footnotes: 1—Expandable with external battery pack. 2—50/60 Hz compatible. 3—DB9 serial port. 4—USB port. 6—Fax/modem line surge suppression. 7—Emergency power off. 8—SNMP/Web interface slot. 9—TAA-GSA compliant. 10—Remote rebootable receptacles. 12—Includes full featured software with voltage and battery monitoring capability. 14—Hospital grade plug and receptacles. 15—Coax protection. 20—Contact Grainger Technical Support before ordering.



No. 5AHD4



No. 26WC24

APC by Schneider Electric — POWER 1 FIRST

UPS Systems

Provide backup power and power protection for critical electronic equipment.

Back-UPS—Basic battery backup and surge protection with enough backup power to work through short- and medium-length power outages. Feature audible alarm, LED status indicator, replaceable battery, push-button circuit breaker, and transformer-block spaced outlets. No. 4NZT2 includes software that automatically saves open files and shuts down the computer during extended outages. UL and C-UL Listed. FCC Part 15 Class B.

Line Interactive—This line interactive USP features LCD display and desktop mounting. Designed with RS232 or USB ports, and delivers 4 to 6ms transfer time. 120VAC input and output voltage and 600VA rating. 1-phase, 60 Hz. 6-ft. cord length.

Smart-UPS®—Provide computer-grade power for workstations, computers, modems, wiring closets, and peripherals. Protect networking equipment and point-of-sale (POS) devices from power disturbances and outages. PowerChute® Business Edition software provides entry-level network UPS management. UL Listed and CSA Certified. FCC Part 15 Class A.

Power Rating	Watts	Backup Time (Half/Full Load)	NEMA Plug Config.	No. of Outlets	Outlet Type	NEMA Recep. Config.	W	H	D	Foot-notes	Mfr. Model	Item No.
Back-UPS, 120VAC, APC												
500VA	300W	15 min./4 min.	5-15P	6	(3) UPS/Surge, (3) Surge	5-15R	3.6"	6.5"	11.2"	2,4,6	BK500BLK	**4NZT2**
700VA	420W	15 min./5 min.	5-15P	6	(3) UPS/Surge, (3) Surge	5-15R	5.4"	7.5"	12.2"	4,6	BR700G	**5AHD4**
Line Interactive, 120VAC, Power First												
600VA	300W	10 min./2 min.	5-15P	6	(3) UPS/Surge, (3) Surge	5-15R	6.1"	8.3"	4.3"	—	26WC24	**26WC24**
Smart-UPS®, 120VAC, APC												
450VA	280W	19 min./5.9 min.	5-15P	4	5-15R	5-15R	17.0"	1.7"	15.1"	—	SC450R1X542	**31XF62**
450VA	280W	19 min./5 min.	5-15P	4	UPS/Surge	5-15R	17.0"	1.7"	15.2"	2,3,6	SC450RM1U	**4NZT7**
500VA	325W	25 min./8 min.	Not Applicable	0	Hardwired	No Configuration	14.2"	5.8"	6.7"	3,7	SUA500PDRS	**43Y948**
620VA	390W	15 min./5 min.	5-15P	4	UPS/Surge	5-15R	4.7"	6.6"	14.5"	2,6	SC620	**4NZT4**
750VA	480W	23 min./7 min.	5-15P	4	UPS/Surge	5-15R	17.0"	1.7"	26.0"	2,3,4,7	SUA750RM1U	**4NZT8**
750VA	500W	15 min./5 min.	5-15P	6	UPS/Surge	5-15R	5.4"	6.3"	14.3"	4,7	SMT750C	**43Y979**
750VA	600W	37.8 min./14.2 min.	5-15P	8	5-15R	5-15R	3.5"	17.0"	19.3"	—	SMX750NMC	**31XF64**
1kVA	600W	19 min./7 min.	5-15P	8	UPS/Surge	5-15R	6.7"	8.4"	17.3"	2,4	SMC1000C	**39A359**
1kVA	640W	14 min./5 min.	5-15P	4	UPS/Surge	5-15R	17.0"	1.7"	26.0"	2,3,4,7	SUA1000RM1U	**4NZT9**
1.4kVA	1kW	16.6 min./4.8 min.	5-15P	4	5-15R	5-15R	17.0"	1.7"	26.2"	—	SMT1500RM1U	**31XF61**
1.5kVA	865W	20 min./7 min.	5-15P	8	UPS/Surge	5-15R	6.7"	8.6"	17.3"	2,4	SMC1500C	**39A360**
1.5kVA	1kW	35 min./10 min.	5-15P	6	UPS/Surge	5-15R	17.0"	3.5"	18.0"	4,7	SMT1500RM2UC	**43Y978**
Network Card, For Use With APC Smart-UPS with Smart-Slot											AP9630	**43Y980**

Footnotes: 2—50/60 Hz compatible. 3—Includes DB9 serial port. 4—Includes USB communication port. 6—Fax/modem line surge suppression. 7—Includes Smart-Slot.



VH Series
No. 12P694



LP11 Series
No. 5EFA0

UPS Systems

Reliable, secure, power protection for all critical loads. 1-phase, 50/60 Hz. Include auto voltage regulation, automatic shutdown software, USB, contact interface with RS232, and relay connections. Optional SNMP and relay cards available for remote communication.

VH Series—True, online double conversion UPS designed for high performance for all mission-critical applications. Highly efficient with 0.9 power factor to deliver more actual power to the load. Provides fail safe bypass and GE's superior battery management to provide maximum power protection and security.

LP11 Series-Hardwired—True, online double conversion UPS with an internal transformer. Robustly designed to handle industrial applications with short-circuit, high overload and overheating conditions, reducing maintenance and service costs. Small footprint with automatic and manual bypass with GE's unique RPA (Redundant Parallel Architecture) technology allowing to parallel up to 4 UPS with no single point of failure. PDU options available for pluggable connections.

Power Rating	Watts	Output Voltage	Backup Time (Half/Full Load)	NEMA Plug Config.	No. of Outlets	NEMA Recep. Config.	W	H	D	Mfr. Model	Item No.
VH Series, Double Conversion UPS, Rack/Tower											
700VA	630W	100/110/115/120/127VAC	18 min./8 min.	5-15P	4	5-20R	17.3"	3.4"	18.6"	25510	**12P694**
1kVA	900W		18 min./8 min.	5-15P	6	5-15R	17.3"	3.4"	18.6"	25511	**12P695**
1.5kVA	1.35kW		18 min./7 min.	5-15P	6	5-15R	17.3"	3.4"	21.5"	25512	**12P696**
2kVA	1.74kW		18 min./8 min.	5-20P	7	5-20R, L5-20R	17.3"	3.4"	21.5"	25513	**12P697**
LP11 Series-Hardwired, Double Conversion UPS, Tower											
5kVA	4kW	—	25 min./10 min.	—	0	No Configuration	12.3"	26.8"	28.7"	UPS105LP2230000	**5EFA0**
6kVA	4.8kW	120/208/220/230/240VAC	20 min./8 min.	—	0	No Configuration	12.3"	26.8"	28.7"	UPS106LP2230000	**5EFA1**
8kVA	6.4kW		29 min./11 min.	—	0	No Configuration	12.3"	26.8"	28.7"	UPS108LP2230000	**5EFA2**
10kVA	8kW		22 min./8 min.	—	0	No Configuration	12.3"	26.8"	28.7"	UPS110LP2230000	**5EFA3**

Socket Code*	No. of Pins	Contact Form	Status Indicator	Push To Test	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
Octal Base								
A	8	DPDT	Flag	No	10A	6VAC; 6VDC; 12VAC; 12VDC; 24VAC; 24VDC; 48VDC; 110VDC; 120VAC; 240VAC	Dayton	**H7955**
A	8	DPDT	LED/Flag	Lockable	10A	12VAC; 12VDC; 24VAC; 24VDC; 48VDC; 110VDC; 120VAC; 240VAC	Dayton	**H7956**
A	8	DPDT	Flag	Lockable	10A		Omron	**H7946**
A	8	DPDT	LED/Flag	Lockable	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H7942**
A	8	DPDT	LED/Flag	No	10A		Omron	**H7943**
A	8	DPDT	LED/Flag	Lockable	10A		Schneider	**J2409**
A	8	DPDT	Flag	No	10A		Omron	**H7945**
A	8	DPDT	Flag	No	10A		Dayton	**H7954**
A	8	DPDT	Flag	No	10A		Schneider	**J2410**
A	8	DPDT	No	No	10A	12VDC; 24VDC	Square D	**H8114**
A	8	DPDT	No	No	10A	24VAC; 120VAC; 240VAC	Square D	**H7953**
A	8	DPDT	LED	No	10A	24VDC; 120VAC	Square D	**H7952**
B	11	3PDT	LED/Flag	Lockable	10A	12VDC; 24VAC; 24VDC; 110VDC; 120VAC; 240VAC	Dayton	**H7974**
B	11	3PDT	LED/Flag	Lockable	10A		Omron	**H7960**
B	11	3PDT	LED/Flag	No	10A		Omron	**H7961**
B	11	3PDT	LED/Flag	No	10A		Dayton	**H7973**
B	11	3PDT	LED/Flag	Lockable	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider	**J2412**
B	11	3PDT	Flag	No	10A		Omron	**H7963**
B	11	3PDT	Flag	Lockable	10A		Omron	**H7964**
B	11	3PDT	Flag	No	10A		Dayton	**H7966**
B	11	3PDT	Flag	No	10A		Schneider	**J2411**
B	11	3PDT	No	No	10A	24VAC; 24VDC; 120VAC	Square D	**H7972**
B	11	3PDT	LED	No	10A	24VAC; 120VAC	Square D	**H7971**
Square Base								
C	5	SPDT	No	Manual	10A	12VDC; 24VAC; 24VDC; 120VAC	Omron	**H8004**
C	5	SPDT	LED	Manual	10A		Omron	**H8003**
C	8	DPDT	No	Manual	10A	12VDC; 24VAC; 24VDC; 110VDC; 120VAC; 240VAC	Omron	**H7992**
C	8	DPDT	LED/Flag	Lockable	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8002**
C	8	DPDT	LED/Flag	Lockable	10A		Schneider	**J2415**
C	8	DPDT	LED	Manual	10A		Omron	**H7989**
C	8	DPDT	Flag	No	10A		Dayton	**H7996**
C	8	DPDT	Flag	No	10A		Schneider	**J2413**
C	8	DPDT	No	Manual	15A	24VAC	Square D	**H7991**
C	8	DPDT	No	No	12A	24VDC; 120VAC	Square D	**H7995**
C	11	3PDT	LED/Flag	Lockable	10A	12VDC; 24VAC; 24VDC; 110VDC; 120VAC; 240VAC	Dayton	**H7987**
C	11	3PDT	No	Manual	5A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8023**
C	11	3PDT	LED/Flag	No	10A		Dayton	**H7986**
C	11	3PDT	LED/Flag	Lockable	10A		Schneider	**J2418**
C	11	3PDT	Flag	No	10A		Dayton	**H7982**
C	11	3PDT	Flag	Manual	10A		Schneider	**J2416**
C	11	3PDT	LED	Manual	10A	12VDC; 24VAC; 24VDC; 240VAC	Omron	**H7978**
C	11	3PDT	No	Manual	10A	12VDC; 24VAC; 110VDC; 120VAC; 240VAC	Omron	**H7980**
C	11	3PDT	LED	Manual	5A	12VDC; 24VDC; 240VAC	Omron	**H8022**
C	11	3PDT	No	No	10A	24VAC; 24VDC	Square D	**H7981**
C	11	3PDT	No	No	10A	24VDC	Omron	**H7980**
C	11	3PDT	LED	No	10A	120VAC	Omron	**H7978**
D	8	SPDT	No	Manual	15A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8019**
D	8	SPDT	LED	Manual	15A		Omron	**H8021**
D	8	DPDT	No	Manual	10A	12VAC; 12VDC; 24VDC; 120VAC; 240VAC	Omron	**H8009**
D	8	DPDT	LED	No	10A	12VDC; 24VAC	Omron	**H8011**
D	8	DPDT	No	Manual	5A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8007**
D	8	DPDT	LED/Flag	Lockable	15A		Schneider	**H8013**
D	8	DPDT	Flag	No	15A		Schneider	**H8016**
D	8	DPDT	No	No	10A	24VAC	Omron	**H8009**
D	8	DPDT	LED	Manual	10A	24VDC; 120VAC; 240VAC	Omron	**H8011**
D	8	DPDT	No	Manual	15A	120VAC	Square D	**H7991**



Dayton
No. H7955



Square D
No. H7971



Omron
No. H8009

Dayton | OMRON® | Schneider Electric | Square D by Schneider Electric

Socket Mount Relays

Socket Code*	No. of Pins	Contact Form	Status Indicator	Push To Test	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
E	11	3PDT	LED	Manual	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8024**
E	11	3PDT	LED/Flag	Lockable	15A		Schneider	**H8027**
E	11	3PDT	Flag	No	15A		Schneider	**H8029**
E	11	3PDT	No	Manual	10A	12VDC; 24VAC; 24VDC; 240VAC	Omron	**H8025**
E	11	3PDT	No	No	10A	120VAC	Omron	**H8025**
F	14	4PDT	No	Manual	10A	12VAC; 12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8031**
F	14	4PDT	LED	Manual	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8032**
F	14	4PDT	LED/Flag	Lockable	15A		Schneider	**H8036**
F	14	4PDT	Flag	No	15A		Schneider	**H8037**
F	14	4PDT	No	No	15A	24VDC; 120VAC	Square D	**H8033**
F	14	4PDT	LED	No	15A	120VAC	Dayton	**H8039**
G	14	4PDT	No	Manual	5A	12VAC; 12VDC; 24VAC; 24VDC; 110VDC; 120VAC; 240VAC	Omron	**H8058**
G	14	4PDT	LED	Lockable	5A	12VDC; 24VAC; 24VDC; 120VAC	Omron	**H8056**
G	14	4PDT	No	Manual	3A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8041**
G	14	4PDT	LED/Flag	Lockable	3A		Schneider	**J2423**
G	14	4PDT	Flag	No	3A		Schneider	**J2422**
G	14	4PDT	LED/Flag	Lockable	6A		Schneider	**J2425**
G	14	4PDT	Flag	No	6A		Schneider	**J2424**
G	14	4PDT	LED	Manual	5A	12VDC; 24VDC; 120VAC; 240VAC	Omron	**H8057**
G	14	4PDT	LED	No	5A	24VAC	Omron	**H8057**
G	14	4PDT	No	No	5A	24VDC; 120VAC	Square D	**H8059**
H	5	SPDT	LED/Flag	Manual	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8069**
H	5	SPDT	Flag	Manual	10A		Omron	**H8070**
J	8	DPDT	LED/Flag	Manual	5A		Omron	**H8071**
J	8	DPDT	Flag	Manual	5A		Omron	**H8072**
K	8	DPDT	No	Manual	5A	12VDC; 24VAC; 24VDC; 120VAC	Omron	**H8073**
K	8	DPDT	No	Manual	5A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8076**
K	8	DPDT	No	Manual	12A		Schneider	**J2420**
K	8	DPDT	LED/Flag	Lockable	12A		Schneider	**J2421**
K	8	DPDT	LED	Manual	5A	12VDC; 24VAC; 120VAC	Omron	**H8075**
K	8	DPDT	LED	Manual	10A	24VDC; 240VAC	Omron	**H8075**
L	5	SPDT	LED/Flag	No	15A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8084**
L	5	SPDT	LED/Flag	Lockable	15A		Dayton	**H8085**
L	5	SPDT	LED/Flag	Lockable	15A		Schneider	**J2419**
L	5	SPDT	Flag	No	15A		Dayton	**H8083**
L	5	SPDT	Flag	No	15A		Schneider	**J2426**
L	5	SPDT	No	No	15A	24VAC; 24VDC; 120VAC	Square D	**H8078**
R	11	3PDT	LED	Manual	5A	24VAC; 120VAC	Omron	**H8022**

** See page 216 for sockets.*

Latching Relays

OMRON®

Contacts hold position after energy is applied momentarily to the coil.

Socket Code*	No. of Pins	Contact Form	AC Contact Rating	▶CHOOSE: Coil Volts	Item No.
Octal Base					
B	11	DPDT	10A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	**H7975**
Square Base					
C	9	DPDT	10A	12VDC; 24VAC; 24VDC; 120VAC	**H7988**
G	10	DPDT	3A	12VDC; 120VAC	**H8066**

** See page 216 for sockets.*



No. H7975

Schneider Electric | Dayton | OMRON® | Square D by Schneider Electric

Hermetically Sealed Relays



No. H7949

Socket Code*	No. of Pins	Contact Form	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
Octal Base						
A	8	DPDT	12A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H7948**
A	8	DPDT	12A	24VDC; 120VAC	Dayton	**H7949**
B	11	3PDT	12A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H7967**
B	11	3PDT	12A	24VDC; 120VAC	Dayton	**H7968**
Square Base						
G	14	4PDT	3A	12VDC; 24VAC; 24VDC; 120VAC	Omron	**H8042**
G	14	4PDT	3A	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8043**
G	14	4PDT	3A	24VAC; 24VDC; 120VAC	Dayton	**H8044**
G	14	4PDT	5A	24VDC; 120VAC	Square D	**H8060**

** See page 216 for sockets.*

OMRON® | Square D by Schneider Electric | Dayton



Top Flange Mount
No. H8010

Flange Mount Relays

No. of Pins	Contact Form	AC Contact Rating	Status Indicator	Push To Test	▶CHOOSE: Coil Volts	Brand	Item No.
Side Flange							
5	SPDT	10A	No	—	12VDC; 24VAC; 120VAC; 240VAC	Omron	**H8100**
8	DPDT	10A	No	—	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8097**
8	DPDT	10A	No	—		Omron	**H8095**
8	DPDT	12A	No	—	24VAC; 120VAC	Square D	**H8096**
11	3PDT	10A	No	—	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8091**
11	3PDT	10A	No	—		Omron	**H8090**
Top Flange							
4	SPST-NO	10A	No	—	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Omron	**H8109**
5	SPDT	10A	No	—		Omron	**H8108**
8	SPDT	15A	No	Manual		Omron	**H8020**
8	DPDT	5A	No	—		Omron	**H8107**
8	DPDT	10A	No	Manual		Omron	**H8010**
11	3PDT	5A	No	—		Omron	**H8103**
11	3PDT	10A	No	Manual		Omron	**H8104**
14	4PDT	3A	No	—		Omron	**H8105**
14	4PDT	10A	No	Manual		Omron	**H8106**



A. No. 5X852



Module Compatible
A. No. 1EGP5



B. No. 6X156



C. No. 5B583



D. No. 2DT94

Schneider Electric · SQUARE D by Schneider Electric · Dayton · OMRON® · GA GRAINGER APPROVED

Relay Sockets and Accessories

UL Recognized and CSA Certified.



E. No. 6CVE6



F. No. 6CVE7



G. No. 2DT97



H. No. 6C898



J. No. 6C899



K. No. 4KN18



Module Compatible
K. No. 1EGR2



M. No. 6AGT8



Module Compatible
R. No. 1EGP9

Socket Code*	Socket Style	No. of Pins	Mounting	Contact Rating	Terminals	Voltage	Contact Rating	L	W	D	Brand	Mfr. Model	Item No.
A	Octal	8	DIN Rail	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	2.20"	1.61"	0.83"	Omron	PF083A-E	**1YAX4**
A	Octal	8	DIN Rail	15A @ 300VAC, 10A @ 600VAC	Screw Clamp	300/600VAC	15A @ 300VAC, 10A @ 600VAC	2.12"	1.60"	0.97"	Schneider Electric	70-464-1	**6CVD6**
A	Octal	8	DIN Rail/Surface	15A @ 300VAC, 10A @ 600VAC	Screw	300/600VAC	15A @ 300VAC, 10A @ 600VAC	2.12"	1.60"	0.97"	Dayton	5X852	**5X852**
A	Octal	8	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	2.40"	1.60"	0.86"	Square D	8501NR51	**5B586**
A	Octal	8	DIN Rail/Surface	16A @ 250VAC	Screw Clamp	250VAC	16A @ 250VAC	2.02"	1.60"	1.13"	Square D	8501NR52	**2DW02**
B	Octal	11	DIN Rail	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	2.21"	1.69"	0.83"	Omron	PF113A-E	**1YAX5**
B	Octal	11	DIN Rail	15A @ 300VAC, 5A @ 600VAC	Screw Clamp	300/600VAC	15A @ 300VAC, 5A @ 600VAC	2.32"	2.16"	0.97"	Schneider Electric	70-465-1	**6CVD7**
B	Octal	11	DIN Rail/Surface	15A @ 300VAC	Screw	300VAC	15A @ 300VAC	2.33"	2.16"	0.97"	Dayton	6X156	**6X156**
B	Octal	11	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	2.37"	2.33"	0.86"	Square D	8501NR61	**5B585**
B	Octal	11	DIN Rail/Surface	16A @ 300VAC	Screw	250VAC	16A @ 300VAC	2.20"	1.50"	1.44"	Square D	8501NR62	**5B584**
C	Square	11	DIN Rail	15A @ 300VAC	Screw Clamp	300VAC	15A @ 300VAC	3.14"	1.69"	1.03"	Schneider Electric	70-463-1	**6CVD5**
C	Square	11	DIN Rail/Surface	15A @ 300VAC	Screw	300VAC	15A @ 300VAC	3.15"	1.70"	1.03"	Dayton	5X853	**5X853**
C	Square	11	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	3.13"	1.70"	1.03"	Square D	8501NR82	**5B583**
C	Square	11	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.00"	1.70"	1.03"	Omron	PTF11PC	**5ZJ16**
C	Square	11	Surface	10A @ 600VAC	Screw	600VAC	10A @ 600VAC	3.15"	1.89"	0.88"	Omron	PTF21PC	**5ZJ18**
D	Square	8	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	2.73"	1.17"	1.02"	Schneider Electric	70-459-1	**6CVD3**
D	Square	8	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	2.73"	1.17"	1.02"	Dayton	10E075	**10E075**
D	Square	8	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.33"	1.18"	1.18"	Dayton	1FC13	**1FC13**
D	Square	8	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	1.18"	1.00"	Square D	8501NR42	**2DT94**
D	Square	8	DIN Rail/Surface	15A @ 250VAC	Screw	250VAC	15A @ 250VAC	3.09"	1.12"	1.28"	Omron	PTF08A-E	**4DG59**
E	Square	11	DIN Rail/Surface	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.09"	1.46"	1.18"	Omron	PTF11A	**2XC08**
E	Square	11	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	1.58"	1.00"	Square D	8501NR43	**2DT96**
E	Square	11	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.33"	1.57"	1.18"	Dayton	1FC14	**1FC14**
F	Square	14	DIN Rail	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.09"	1.79"	1.30"	Omron	PTF14A-E	**1YAX3**
F	Square	14	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.14"	1.96"	1.18"	Dayton	1FC15	**1FC15**
F	Square	14	DIN Rail/Surface	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.09"	1.79"	1.18"	Omron	PTF14A	**2XC09**
F	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	2.00"	1.00"	Square D	8501NR34	**2DT92**
G	Square	14	DIN Rail	5A @ 250VAC	Screwless Clamp	250VAC	5A @ 250VAC	3.35"	1.22"	1.28"	Omron	PYF14S	**1YAW8**
G	Square	14	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	2.71"	1.20"	1.00"	Schneider Electric	70-461-1	**6CVD4**
G	Square	14	DIN Rail/Surface	5A @ 250VAC	Screw	250VAC	5A @ 250VAC	2.99"	1.16"	1.22"	Omron	PYF14AE	**5ZJ21**
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	2.50"	1.19"	1.00"	Dayton	2A584	**2A584**
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.65"	1.20"	1.00"	Square D	8501NR45	**2DT97**
H	Square	5	DIN Rail	10A @ 250VAC	Screwless Clamp	250VAC	10A @ 250VAC	3.62"	0.71"	1.50"	Omron	P2RF-05-S	**1YAW5**
H	Square	5	DIN Rail/Surface	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.57"	0.63"	1.88"	Omron	P2RF-05-E	**6C898**
J	Square	8	DIN Rail	5A @ 250VAC	Screwless Clamp	250VAC	5A @ 250VAC	3.62"	0.71"	1.50"	Omron	P2RF-08-S	**1YAW6**
J	Square	8	DIN Rail/Surface	5A @ 250VAC	Screw	250VAC	5A @ 250VAC	3.65"	0.63"	1.88"	Omron	P2RF-08-E	**6C899**
K	Square	8	DIN Rail	10A @ 250VAC	Screwless Clamp	250VAC	10A @ 250VAC	3.35"	1.22"	1.28"	Omron	PYF08S	**1YAW7**
K	Square	8	DIN Rail/Surface	7A @ 250VAC	Screw	250VAC	7A @ 250VAC	3.09"	1.45"	1.18"	Omron	PYF08A-E	**4KN18**
L	Square	5	DIN Rail/Surface	15A @ 300VAC	Screw Clamp	250VAC	15A @ 300VAC	2.75"	1.50"	1.00"	Square D	8501NR41	**2DT93**
M	Square	6	DIN Rail	30A @ 300VAC	Screw Clamp	300VAC	30A @ 300VAC	2.79"	2.13"	0.93"	Schneider Electric	70-725-1	**6AGT8**
R	Square	11	DIN Rail	5A @ 250VAC	Screw	250VAC	5A @ 250VAC	2.83"	1.16"	1.18"	Omron	PYF11A	**1YAX2**
Module Compatible - Accepts Expansion Modules													
A	Octal	8	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Dayton	1EGP3	**1EGP3**
A	Octal	8	DIN Rail	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.77"	1.40"	1.77"	Dayton	1EGP5	**1EGP5**
A	Octal	8	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Schneider Electric	70-750E8-1	**6CVD9**
A	Octal	8	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.77"	1.40"	1.77"	Schneider Electric	70-750EL8-1	**6CVE1** †
B	Octal	11	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Dayton	1EGP2	**1EGP2**
B	Octal	11	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Schneider Electric	70-750E11-1	**6CVD8**
B	Octal	11	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.77"	1.40"	2.48"	Schneider Electric	70-750EL11-1	**6CVE0** †
C	Square	11	DIN Rail	25A @ 300VAC	Screw	300VAC	25A @ 300VAC	3.70"	1.40"	2.48"	Dayton	1EGR3	**1EGR3**
C	Square	11	DIN Rail	25A @ 300VAC	Screw Clamp	300VAC	25A @ 300VAC	3.70"	1.40"	2.48"	Schneider Electric	70-788EL11-1	**6CVE8** †
D	Square	8	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.18"	1.18"	Schneider Electric	70-782D8-1A	**6CVE4** †
E	Square	11	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.57"	1.18"	Schneider Electric	70-783D11-1A	**6CVE6** †
F	Square	14	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.96"	1.18"	Schneider Electric	70-784D14-1	**6CVE7** †
G	Square	14	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.12"	1.06"	1.69"	Dayton	1EGP8	**1EGP8**
G	Square	14	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGR1	**1EGR1**
G	Square	14	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	3.30"	1.18"	1.57"	Schneider Electric	70-782D14-1	**6CVE3** †
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.11"	1.18"	1.57"	Dayton	1EGP7	**1EGP7**
K	Square	8	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGR2	**1EGR2**
K	Square	8	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	3.34"	1.06"	2.40"	Schneider Electric	70-782EL8-1	**6CVE5**
L	Square	5	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	0.82"	1.18"	Schneider Electric	70-781D5R-1A	**6CVE2** †
R	Square	11	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGP9	**1EGP9**
Expansion Modules													
Diode, 6-250VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT1	**1EGT1**
LED, 120/240VAC/VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT2	**1EGT2**
LED, 24VAC/VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT3	**1EGT3**
Metal Oxide Varistor, 120VAC/VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT4	**1EGT4**
Metal Oxide Varistor, 240VAC/VDC Expansion Module, For Use With A, B, C Module Sockets								0.4	1.4	1.6	Dayton	1EGR9	**1EGR9**
Metal Oxide Varistor, 240VAC/VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT6	**1EGT6**
Metal Oxide Varistor, 24VAC/VDC Expansion Module, For Use With A, B, C Module Sockets								0.4	1.4	1.6	Dayton	1EGR8	**1EGR8**
Metal Oxide Varistor, 24VAC/VDC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3	0.5	1.1	Dayton	1EGT5	**1EGT5**
Socket Accessories													
35mm DIN Rail Mounting Track								12.00	1.38	0.31	GA	18Z759	**18Z759**
35mm DIN Rail Mounting Track								24.00	1.38	0.31	GA	18Z760	**18Z760**
35mm DIN Rail Mounting Track								39.37	1.38	0.31	GA	18Z758	**18Z758**
35mm DIN Rail Mounting Track								39.37	1.38	0.30	Schneider Electric	16-700DIN	**6CUR2**
Clip, Metal, For Use With No. 1FC14								—	—	—	Dayton	1EGA8	**1EGA8**
Clip, Metal, For Use With No. 1FC15								—	—	—	Dayton	1EGA9	**1EGA9**
Clip, Metal, For Use With Nos. 1EGP7, 1EGP8, 1EGR2, 1EGP9, 1EGR1								—	—	—	Dayton	1EGA7	**1EGA7**
Clip, Metal, For Use With Nos. 5X853, 5X852, 6X156, 1EGP2, 1EGP3, 1EGP4, 1EGP5, 1EGR3								—	—	—	Dayton	1TND8	**1TND8**
Clip, Plastic, For Use With Nos. 1EGP7, 1EGP8, 1EGR2, 1EGP9, 1EGR1								—	—	—	Dayton	1EGA6	**1EGA6**
DIN Rail Adapter, For Use With Schneider/Magnecraft W9A Series Power Relays (Nos. H8128, H8130)								—	—	—	Schneider Electric	16-9ADIN-1	**6AGT9**

** Like letters have same pin configuration. † Finger safe.*

Heavy-Duty Power Relays

- Screw-head terminals
- Silver alloy, self-wiping contacts
- Molded thermoset plastic base

Use for switching motor loads in applications such as elevators, machine tools, air handling, and HVAC equipment. Minimum operating voltage for AC relays is 85% of nominal voltage. 0.75 power factor. Relays with magnetic blowout feature suppress arcing.


No. H8162


No. H8151


No. H8122

No. of Pins	Contact Form	Features	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Mfr. Model	Item No.
Power Relays									
4	SPST-NO	—	40A @ 300V	2	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	—	**H8153**
4	SPST-NO	Riveted Construction	40A @ 300V	2	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	199DX	**H8146**
4	SPST-NO	—	40A @ 300V	2	2	120VAC; 277VAC; 480VAC	Square D	8501CO6	**H8162**
5	SPDT	—	40A @ 300V	1½	Not Rated	12VDC; 24VAC; 24VDC; 120VAC	Dayton	—	**H8143**
5	SPDT	—	40A @ 300V	2	2	120VAC	Square D	8501CO15	**2DR55**
6	DPST-NO	—	40A @ 300V	1½	1½	12VDC; 24VAC; 24VDC; 120VAC; 208VAC; 240VAC	Dayton	—	**H8156**
6	DPST-NO	Riveted Construction	40A @ 300V	2	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	199X	**H8150**
8	DPDT	—	40A @ 300V	1½	1½	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	—	**H8151**
8	DPDT	Auxiliary Switch	40A @ 300V	1½	1½	24VDC; 120VAC	Dayton	—	**H8155** *
8	DPDT	—	40A @ 300V	2	2	120VAC	Square D	8501CO16	**H8137**
8	DPDT	—	30A @ 277V	2	2	480VAC	Square D	8501CO16	**H8137**
11	3PDT	Excellent Contact Wiping Action, Enclosed Coil	25A @ 240V	1	1	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Struthers-Dunn	425XCX	**H8122**
Power Relays with Magnetic Blowout									
4	SPST-NO	Magnetic Blowout	40A @ 300V	—	—	24VDC; 120VAC	Dayton	—	**H8154**
4	SPST-NO	Magnetic Blowout	40A @ 300V	—	—	24VDC; 120VAC; 240VAC	Schneider Electric	199DBX	**H8147**
8	DPDT	Magnetic Blowout	40A @ 300V	—	—	12VDC; 24VDC; 120VAC; 240VAC	Schneider Electric	199BX	**H8148**
8	DPDT	Magnetic Blowout	40A @ 300V	—	—	24VDC; 120VAC	Dayton	—	**H8152**
Enclosures for Power Relays									
For Use With 199 Series Power Relays							Schneider Electric	5089	**6CVA2**
NEMA 1 Indoor Rating, 5.31L x 3.38W x 3.13"D, Knockouts for ½" Conduit							Dayton	1EGH7	**1EGH7**

**** Includes auxiliary switch.***

Enclosed Power Relays

Flange-type mounting bracket.

DAYTON®

Bottom-mounted ¼" quick-connect terminals. Silver cadmium oxide contacts. Operating temp. -30° to 50°C DC; -30° to 65°C AC. Pull-in at 85% of nominal voltage for AC coils or 80% for DC coils.

OMRON

Top-mounted terminals. Dielectric strength: 4000VAC at 1 min. G7L series has push-to-test buttons.

SCHNEIDER ELECTRIC

Feature top-mounted terminals and locating slot for DIN rail mounting. Silver tin oxide contacts. 50/60 Hz. UL Listed.


Dayton® No. H8139


Schneider Electric No. H8138


Schneider Electric No. H8130


Omron No. H8123

No. of Pins	Contact Form	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Item No.
Bottom Flange, Din Rail Mount, ¼" Tab Terminals							
4	SPST-NO	30A @ 277V	1½	3	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8131**
6	DPST-NO	30A @ 277V	1	3	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8139**
6	DPST-NO	30A @ 277V	1	3	12VDC; 24VAC; 120VAC; 230VAC	Schneider Electric	**H8138**
6	DPST-NO	25A @ 277V	1	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8118**
6	DPST-NO	30A @ 277V	1	3	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8140**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Dayton	**H8134**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12VDC; 24VAC; 24VDC; 120VAC; 230VAC	Schneider Electric	**H8135**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8136**
Bottom Flange, Din Rail Mount, Screw Terminals							
6	DPST-NO	25A @ 277V	1	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8121**
Bottom Flange Mount, ¼" Tab Terminals							
4	SPST-NO	30A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8129**
4	SPST-NO	30A @ 240V	1	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8130**
5	SPDT	30A @ 240V (NO), 15A @ 240V (NC)	1	2	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	Schneider Electric	**H8128**
6	DPST-NO	25A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8117**
Bottom Flange Mount, Screw Terminals							
4	SPST-NO	30A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8133**
6	DPST-NO	25A @ 240V	1	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8120**
Bracket Mount, ¼" Tab Terminals							
6	DPST-NO	25A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8116**
10	SPST-NC, 3PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8125**
10	4PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8127**
Bracket Mount, Screw Terminals							
4	SPST-NO	30A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8132**
6	DPST-NO	25A @ 240V	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8119**
10	DPST-NC, DPST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8123**
10	SPST-NC, 3PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1½	3	12VDC; 24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8124**
10	4PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1½	3	24VAC; 24VDC; 100/120VAC; 200/240VAC	Omron	**H8126**

Flange-Mount Power Relays

- 60/50 Hz Feature side flange and silver alloy contact material.

No. of Pins	Contact Form	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Mfr. Model	Item No.
5	SPDT	25A @ 300V	1	1½	12VDC, 24VAC, 24VDC, 120VAC, 240VAC	Dayton	—	**H8158**
5	SPDT	25A @ 300V	1½	1½		Schneider Electric	389FXAXC1	**H8160**
8	DPDT	25A @ 300V	1½	1½		Dayton	—	**H8159**
8	DPDT	25A @ 300V	1½	1½		Schneider Electric	389FXBXC1	**H8161**
8	DPDT	10A @ 480/600V	¾	1½		Omron	MJN2CE	**H8099**
11	3PDT	20A @ 150V	½	½		Dayton	—	**H8094**
11	3PDT	20A @ 150V	½	½		Schneider Electric	389FXCXC1	**H8093**


No. H8161



Compact, CA2/3 Series
No. H2709



CAD Series
No. H2714

Schneider Electric

TeSys IEC Control Relays

- 600V, 10A rating (A600)
- DIN rail mounting capability

UL Listed and CSA Certified.

COMPACT

Great for OEM and panel builders. A built-in cavity simplifies insertion of a transient suppressor.

CAD SERIES

Serrated contacts provide a wiping action to ensure excellent performance with low control voltage (24V). Basic 5-pole relay can be installed with a snap-on adder cartridge. Built to a design specification of 30 million mechanical operations. Standard instantaneous auxiliary contact blocks are available. See listing on page 170.

Contact Form	▶CHOOSE: Coil Volts	Item No.
Compact, CA2/3 Series		
1NO/1NC		**H2709**
2NO		**H2708**
2NO/2NC	24VAC, 24VDC, 120VAC, 240VAC, 480VAC	**H2712**
3NO/1NC		**H2711**
4NO		**H2710**
CAD Series		
3NO/2NC	24VAC, 24VDC, 120VAC, 240VAC, 480VAC	**H2714**
5NO		**H2713**



Mini
No. H2733



Control
No. H2730

EATON

IEC Control Relays

- DIN rail mount
- Front access contact and coil terminals

XT/DIL M Series feature positively driven contacts between the relay and auxiliary contact modules, and within the auxiliary contact modules.

Provide AC control from 12V to 550V 50 Hz, 600V 60 HZ, and DC control from 12V to 220V. Silver tin oxide alloy contact material. Screw or spring-cage terminals and 4-pole configurations. Nonlatching type. UL Listed, CSA and CE Certified.

Contact Form	▶CHOOSE: Coil Volts	Mfr. Model	Item No.
IEC Mini Control Relays, 10A			
2NO/2NC	24VAC, 120VAC, 208VAC, 240VAC, 480VAC	XTRM10A	**H2733**
4NO		XTRM10A	**H2732**
IEC Control Relays, 16A			
2NO/2NC	24VAC, 120VAC, 208VAC, 240VAC, 480VAC	XTRE10B	**H2730**
4NO		XTRE10B	**H2731**



Class 8501 X0
Control Relay
No. H2715



Mechanical AC Latch
No. 4B518

SQUARE D by Schneider Electric

NEMA Control Relay

- Operating temp. range: -40° to 71°C (-40° to 160°F)
- Mechanical tie between all cartridges

Rugged, heavy-duty design ensures improved performance, reliability, and long life. Feature field convertible color-coded contact cartridges and replaceable coils. Average operating time in milliseconds: AC is 15 pickup, 16 dropout; DC is 37 pickup, 21 dropout. UL Listed and CSA Certified.

NEMA CONTROL RELAY

- 600V, 10A rating (A600)

All contact poles are usable since no overlapping contacts are needed. Relays have plug-in contact cartridges for easy contact conversion, from Normally Open to Normally Closed, and replacement; removal of terminal screws or wires is not necessary. Self-lifting pressure wire connectors. Straight-through wiring.

Note: A maximum of 8 NC contacts is allowed on 12-pole relays.

MASTER NEMA CONTROL RELAY

- 600V, 20A rating (A600)

Note: Attachments are not permitted on this relay.

Contact Form	▶CHOOSE: Coil Volts	Accessory Group	Mfr. Model	Item No.
NEMA Control Relay				
2NO	24VDC, 24VAC, 240VAC, 480VAC, 120VAC	A	8501XO20	**H2715**
3NO	24VAC, 240VAC, 480VAC, 120VAC	A	8501XO30	**H2716**
4NO	24VDC, 24VAC, 120VAC, 240VAC, 480VAC	A	8501XO40	**H2717**
6NO	24VDC, 24VAC, 240VAC, 120VAC	B	8501XO60	**H2718**
8NO	24VDC, 24VAC, 240VAC, 480VAC, 120VAC	C	8501XO80	**H2719**
10NO	120VAC	E	8501XO1000	**H2720**
12NO	24VAC, 240VAC, 120VAC	D	8501XO1200	**H2721**
Latching NEMA Control Relay				
2NO	24VDC, 24VAC, 120VAC, 240VAC	G	8501XO20XL	**H2725**
3NO	120VAC	G	8501XO30XL	**H2726**
4NO	24VDC, 120VAC	G	8501XO40XL	**H2727**
6NO	120VAC, 480VAC	H	8501XO60XL	**H2728**
8NO	24VDC, 120VAC	H	8501XO80XL	**H2729**
Master NEMA Control Relay				
2NO	24VAC, 120VAC	F	8501XMO20	**H2722**
4NO	24VAC, 240VAC, 120VAC	F	8501XMO40	**H2723**
6NO	120VAC, 480VAC, 240VAC	F	8501XMO60	**H2724**

Description	Accessory Group	Mfr. Model	Item No.
Accessories for Class 8501 Relays			
Mechanical AC Latch	A, B, C	8501XLV02	**4B518**
On Delay Pneumatic Timer, 0.2 to 60 sec., 1 NO, 1 NC	A	8501XTE1	**4B532**
Off Delay Pneumatic Timer, 1NO, 1NC	A	8501XTD1	**4B531**
Adder Deck with 2 Convertible Contacts	A, F	8501XB20	**4B512**
Adder Deck with 4 Convertible Contacts	A, F	8501XB40	**4B513**
NEMA 1 Enclosure	All	9991UE7	**4B533**
Contact Cartridge Standard (Break Before Make), 10A, Black	A, B, C	8501XC1	**4B514**
Master Contact Cartridge, 20A, Blue	F	8501XC4	**4B516**



No. H2626



No. 13A182

SIEMENS

IEC Control Relays

- 10A
- UL Listed and CSA and CE Certified

Control output signals and interlock switching devices in control and auxiliary circuits. Cross-ribbing technique ensures high contact reliability as low as 1mA and 17V.

Contact Form	Mfr. Model	AC COIL ▶CHOOSE: Coil Volts	AC COIL Item No.	DC COIL ▶CHOOSE: Coil Volts	DC COIL Item No.
2NO/2NC	3RH21221	24VAC, 120VAC, 220VAC, 240VAC	**H2626**	24VDC, 110VDC, 125VDC	**H3802**
3NO/1NC	3RH21311	24VAC, 120VAC, 220VAC, 240VAC	**H2627**	24VDC, 110VDC, 125VDC, 220VDC	**H3803**
4NO	3RH21401	24VAC, 120VAC, 240VAC	**H2628**	24VDC, 110VDC	**H3804**
With Permanent Mounted Auxiliary Contacts					
6NO/2NC	3RH22621	120VAC	**44P008**	24VDC	**44P009**
4NO/4NC	3RH22441	120VAC	**13A182**	24VDC	**13A183**

Solid-State Relays

Dayton®

Fast response and long service life, with no moving parts to wear out or arcing contacts to deteriorate. Feature heavy-duty SCR for high inrush loads, a standard, light-duty resistive triac, and medium-duty alernistor triac.

Max. Output Amps w/ Heat Sink	Switch Type	Heat Sink	Relay Turns On At	Mounting	3 to 32VDC INPUT 24 to 280VAC Output Item No.	3 to 32VDC INPUT 48 to 480VAC Output Item No.	90 to 280VAC INPUT 24 to 280VAC Output Item No.	90 to 280VAC INPUT 48 to 480VAC Output Item No.
8	Triac	Integral	Zero Crossing	DIN Rail	—	—	—	1EJG5
10	SCR	Not Included	Zero Crossing	Surface	1EGH9	1EGL2	1EGH8	1EGL1
10	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK2	—	1EJK1	1EJK7 *
10	Triac	Not Included	Instantaneous/Random	Surface	1EGJ3	—	—	—
10	Triac	Not Included	Zero Crossing	Surface	1EGJ1	1EGL3	—	—
10	Triac	Not Included	Zero Crossing	Surface	1EGJ2	—	—	—
25	SCR	Not Included	Zero Crossing	Surface	1EGJ5	1EGL5	1EGJ4	1EGL4
25	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK4	1EJL1 *	1EJK3	1EJK9 *
40	SCR	Not Included	Zero Crossing	Surface	1EGJ9	1EGL8	1EGJ8	1EGL7
40	SCR	Integral	Zero Crossing	DIN Rail/Flange	1EJK6	1EJL3 *	1EJK5	—
40	Triac	Not Included	Zero Crossing	Surface	—	1EGL9	—	—
50	SCR	Not Included	Zero Crossing	Surface	1EGK4	1EGN2	1EGK3	1EGN1
75	SCR	Not Included	Zero Crossing	Surface	1EGK6	1EGN4	1EGK5	1EGN3
90	SCR	Not Included	Zero Crossing	Surface	—	1EGN6 *	—	1EGN5 *

** 48 to 660VAC output.*


No. 1EJG5


No. 1EJK1


No. 1EGH8

Max. Output Amps w/ Heat Sink	Relay Turns On At	DC INPUT 24 to 280VAC Output Input or Control Voltage Range	DC INPUT 24 to 280VAC Output Item No.	DC INPUT 48 to 530VAC Output Input or Control Voltage Range	DC INPUT 48 to 530VAC Output Item No.	AC INPUT 24 to 280VAC Output Input or Control Voltage Range	AC INPUT 24 to 280VAC Output Item No.	AC INPUT 48 to 530VAC Output Input or Control Voltage Range	AC INPUT 48 to 530VAC Output Item No.
1-Pole, SCR Normally Closed Output									
25	Zero Crossing	3 to 32VDC	1DTJ7	—	—	—	—	—	—
1-Pole, SCR Output									
10	Zero Crossing	3 to 32VDC	1DTE9	—	—	90 to 280VAC	1DTG1	—	—
12	Zero Crossing	—	—	4 to 32VDC	1DTF5	—	—	90 to 280VAC	1DTG6
18	Zero Crossing	3 to 15VDC	1DTK4	—	—	—	—	—	—
25	Zero Crossing	—	—	—	—	90 to 280VAC	1DTG2	90 to 280VAC	1DTG7
25	Zero Crossing	3 to 32VDC	1DTF1	4 to 32VDC	1DTF6	18 to 36VAC	1DTH6	18 to 36VAC	1DTH8
25	Instantaneous/Random	3 to 32VDC	1DTJ1	4 to 32VDC	1DTJ4	—	—	—	—
50	Zero Crossing	—	—	—	—	90 to 280VAC	1DTG3	90 to 280VAC	1DTG8
50	Zero Crossing	3 to 32VDC	1DTF2	4 to 32VDC	1DTF7	18 to 36VAC	1DTH7	18 to 36VAC	1DTH9
50	Instantaneous/Random	3 to 32VDC	1DTJ2	4 to 32VDC	1DTJ5	—	—	—	—
75	Zero Crossing	3 to 32VDC	1DTF3	4 to 32VDC	1DTF8	90 to 280VAC	1DTG4	90 to 280VAC	1DTG9
90	Zero Crossing	3 to 32VDC	1DTF4	4 to 32VDC	1DTF9	90 to 280VAC	1DTG5	90 to 280VAC	1DTH1
90	Instantaneous/Random	3 to 32VDC	1DTJ3	4 to 32VDC	1DTJ6	—	—	—	—
1-Pole, SCR Output, Includes Integral Heat Sink, DIN Rail/Flange									
10	Zero Crossing	4 to 32VDC	1DTN3	4 to 32VDC	1DTN7	—	—	—	—
20	Zero Crossing	4 to 32VDC	1DTN4	4 to 32VDC	1DTN8	110 to 280VAC	1DTP2	110 to 280VAC	1DTP4 *
30	Zero Crossing	4 to 32VDC	1DTN5	4 to 32VDC	1DTN9	110 to 280VAC	1DTP3	110 to 280VAC	1DTP5 *
30	Instantaneous/Random	4 to 32VDC	1DTN6	4 to 32VDC	1DTP1	—	—	—	—
45	Zero Crossing	—	—	4 to 32VDC	1DTP6	—	—	90 to 140VAC	1DTR1
65	Zero Crossing	—	—	3 to 32VDC	1DTP8	—	—	90 to 140VAC	1DTR2
2-Pole, SCR Output									
25	Zero Crossing	4 to 15VDC	1DTH2	4 to 15VDC	1DTH4	—	—	—	—
40	Zero Crossing	4 to 15VDC	1DTH3	4 to 15VDC	1DTH5	—	—	—	—
3-Pole, SCR Output									
50	Zero Crossing	—	—	4 to 32VDC	1DTK6	—	—	90 to 280VAC	1DTK8
50	Instantaneous/Random	—	—	4 to 32VDC	1DTK7	—	—	90 to 280VAC	1DTK9

** 24 to 530VAC output.*


No. 1DTE9


No. 1DTK6

crydom

Solid-State Relays

Reliable performance even in harsh environments. Quiet operation and great flexibility.

Note: Heat sink required to achieve max. amp capacity. Sold separately, this page.

Description	Item No.
Accessories	
Fingersafe Cover, 1-Phase	1DTR3
Fingersafe Cover, 3-Phase	1DTR4

Schneider Electric


No. 6CVA3


No. 6CWZ6


No. 6CWX3

Solid-State Relays

Panel mount and DIN rail mount SSRs with standard LED indicator, internal snubber (AC output versions), zero-cross switching, and finger safe (IP20) terminals. DIN rail mount models come with integrated heat sinks. Ideal solutions for industrial automation, heating elements, lighting controls, packaging equipment, conveyors, plastic extrusion equipment, and commercial ovens.

Max. Output Amps w/ Heat Sink	4 to 32VDC INPUT 24 to 280VAC Output Item No.	4 to 32VDC INPUT 48 to 480VAC Output Item No.	90 to 280VAC INPUT 24 to 280VAC Output Item No.	90 to 280VAC INPUT 48 to 480VAC Output Item No.
SCR, Includes Integral Heat Sink, Relay Turns On At Zero Crossing				
10	6CWZ7	6CXA3 *	6CWZ6	6CXA2 *
30	6CWZ9	6CXA5 *	6CWZ8	6CXA4 *
45	6CXA1	6CXA7 *	6CXA0 †	6CXA6 †*
SCR, Relay Turns On At Zero Crossing				
10	6CVA4	6CVC4	6CVA3	6CVC3
25	6CVA6	6CVC6	6CVA5	6CVC5
40	6CVA8	6CVC8	6CVA7	6CVC7
50	6CVC0	6CVD0	6CVA9	6CVC9
75	6CVC2	6CVD2	6CVC1	6CVD1
Triac, Includes Internal Heat Sink, Relay Turns On At Zero Crossing				
8	6CWX3	6CWX5	6CWX2	6CWX4

Description	Mfr. Model	Item No.	Pkg. Qty.
Accessories for SCR Type Relays			
Heat Sink, Aluminum	SSR-HS	6CXA8	1
Thermal Pad, Mounts On Relay & Heat Sink, Eliminates the Need for Thermal Grease	SSR-TP	6CXA9	10

** Output rated 48 to 600VAC. † Input rated 90 to 140VAC.*

OMRON®

Solid-State Relays

Feature zero cross isolation device. Built-in varistor effectively absorbs external surges. Include protective cover. Nos. 6C900 to 6C908 have LED operation indicator.

Note: Heat sink required to achieve max. amp capacity, sold separately.


No. 6C900

Max. Output Amps w/ Heat Sink	Input or Control Voltage Range	Output or Controlled Voltage Range	Switch Type	Item No.
10	5 to 24VDC	24 to 240VAC	Phototriac	6C900
10	20 to 28VDC	100 to 240VAC	Phototriac	5ZH24
10	100 to 120VAC	24 to 240VAC	Photocoupler	6C901
10	200 to 240VAC	24 to 240VAC	Photocoupler	6C902
25	5 to 24VDC	24 to 240VAC	Photocoupler	6C903
25	100 to 120VAC	24 to 240VAC	Photocoupler	6C904
40	5 to 24VDC	24 to 240VAC	Phototriac	6C906
50	100 to 240VAC	400 to 600VAC	Photocoupler	1YDP1
Accessories				
Heat Sink, 20 Amps or Less				6C911
Heat Sink, 25 Amps and Greater				6C912



SPST
No. 12N665



DPST
No. 12N667



3PST
No. 12N676

STRUTHERS-DUNN

Mercury Displacement Contactors

- Normally open contacts
- Matching footprint to DP contactors
- Hermetically sealed

Sealed liquid-mercury contactors have frictionless plunger that eliminates metal-to-metal wear. Ambient temp. range: -30° to 165°F under continuous load. Vertical mounting only. Suitable for heating and motor loads with frequent On/Off cycles. UL Listed and CSA Certified.

Contact Amp Rating (Resistive)	Contact Form	H	W	D	Mfr. Model	24VAC COIL Item No.	120VAC COIL Item No.	208VAC COIL Item No.	240VAC COIL Item No.
35A	SPST	5.05"	1.94"	2.30"	M35A	—	**12N665**	**12N666**	—
35A	DPST	4.95"	3.51"	2.54"	M35AA	—	**12N667**	—	**12N668**
35A	3PST	4.98"	3.75"	3.39"	M35AAA	**12N669**	**12N670**	—	**12N671**
60A	SPST	5.05"	1.94"	2.30"	M60A	—	**12N672**	—	**12N673**
60A	DPST	4.95"	3.51"	2.54"	M60AA	—	**12N674**	—	**12N675**
60A	3PST	4.98"	3.75"	3.39"	M60AAA	—	**12N676**	—	**12N677**



No. 5LE35

RIB Functional Devices, Inc

RIB® Relay in a Box®

- NEMA 1 enclosure with ½" NPT nipple, except ¾" on Nos. 2ERZ6 and 2ERZ7
- General purpose; ready to install
- LED indicators
- 16" leads

Prewired; multivoltage coil inputs enable 1 relay to replace many different types of relays. Easy to mount. Use for controlling high-voltage appliances with low-voltage signals, such as exhaust fans, vacuums, and motors. UL and C-UL Listed.

Contact Form	Coil Volts	Description	HP @ 120V	HP @ 240V	Dim.	Mfr. Model	Item No.
Emergency Lighting Relay, 20A							
SPDT	24VAC/DC, 120VAC	Bypass/Shunt	1	—	2.3"H x 3.2"W x 1.8"D	ESR2401B	**21GP48**
SPDT	24VAC/DC, 208 to 277VAC	Bypass/Shunt	1	—	2.3"H x 3.2"W x 1.8"D	ESR2402B	**21GP49**
DPDT	120VAC	Bypass/Shunt	1	2	4.0"H x 4.0"W x 1.8"D	ESR01P	**21GP53**
DPDT	208 to 277VAC	Bypass/Shunt	1	2	4.0"H x 4.0"W x 1.8"D	ESR02P	**21GP54**
Emergency Lighting Relay, UL924, 10A							
DPDT	24VAC/DC, 208 to 277VAC	Bypass/Shunt	½, ⅓	½, ⅓	1.7"H x 2.8"W x 1.5"D	ESR2402D	**21GP50**
Pilot Duty, 10A							
SPST	10 to 30VAC/DC, 120VAC	Override Switch	⅓, 1/6	⅓, 1/6	2.3"H x 3.2"W x 1.8"D	RIBU1S	**2ERZ9**
SPST	10 to 30VAC/DC, 208 to 277VAC	Override Switch	⅓, 1/6	⅓, 1/6	2.3"H x 3.2"W x 1.8"D	RIBH1S	**2ERZ8**
SPDT	10 to 30VAC/DC, 120VAC	—	⅓, 1/6	⅓, 1/6	1.7"H x 2.8"W x 1.5"D	RIBU1C	**5LE35**
SPDT	10 to 30VAC/DC, 120VAC	NEMA 4X Enclosure	⅓, 1/6	⅓, 1/6	1.7"H x 2.8"W x 1.5"D	RIBU1C-N4	**2ERZ5**
SPDT	10 to 30VAC/DC, 208 to 277VAC	—	⅓, 1/6	⅓, 1/6	1.7"H x 2.8"W x 1.5"D	RIBH1C	**5LE34**
SPDT	24VAC/DC, 120 to 277VAC	—	½	1	1.7"H x 2.8"W x 1.5"D	RIB2421C	**2ETA6**
SPDT	120 to 277VAC	Dry Contact Relay	½	1	1.7"H x 2.8"W x 1.5"D	RIB21CDC	**2ETA5**
DPDT	24VAC/DC, 120VAC	—	½, ⅓	½, ⅓	1.7"H x 2.8"W x 1.5"D	RIB2401D	**2ETA3**
DPDT	24VAC/DC, 208 to 277VAC	—	½, ⅓	½, ⅓	1.7"H x 2.8"W x 1.5"D	RIB2402D	**2ETA4**
(3) SPST, SPDT	10 to 30VAC/DC	3 Relays	⅓, 1/6	⅓, 1/6	4.0"H x 4.0"W x 1.8"D	RIBL3C	**2ETA1**
(3) SPST, SPDT	10 to 30VAC/DC	4 Relays	⅓, 1/6	⅓, 1/6	4.0"H x 4.0"W x 1.8"D	RIBL4C	**2ETA2**
(2) SPDT	10 to 30VAC/DC, 120VAC	2 Relays	⅓, 1/6	⅓, 1/6	2.3"H x 3.2"W x 1.8"D	RIBU2C	**2ERZ6**
(2) SPDT	10 to 30VAC/DC, 208 to 277VAC	2 Relays	⅓, 1/6	⅓, 1/6	2.3"H x 3.2"W x 1.8"D	RIBH2C	**2ERZ7**
Pilot Duty, 20A							
SPST	24VAC/DC, 120/208 to 277VAC	Override Switch	1	—	2.3"H x 3.2"W x 1.8"D	RIB2421SB	**21GP32**
SPST	24VAC/DC, 120VAC	Override Switch	1	—	2.3"H x 3.2"W x 1.8"D	RIB2401SB	**2ETA7**
SPST	24VAC/DC, 208 to 277VAC	Override Switch	1	—	2.3"H x 3.2"W x 1.8"D	RIB2402SB	**2ETA8**
SPDT	24VAC/DC, 120/208 to 277VAC	—	1	—	2.3"H x 3.2"W x 1.8"D	RIB2421B	**21GP31**
SPDT	24VAC/DC, 120VAC	—	1	—	2.3"H x 3.2"W x 1.8"D	RIB2401B	**5LE36**
SPDT	24VAC/DC, 208 to 277VAC	—	1	—	2.3"H x 3.2"W x 1.8"D	RIB2402B	**5LE37**
SPDT	120VAC	Dry Contact Relay	1	—	2.3"H x 3.2"W x 1.8"D	RIB01BDC	**21GP41**
SPDT	208 to 277VAC	Dry Contact Relay	1	—	2.3"H x 3.2"W x 1.8"D	RIB02BDC	**21GP42**
DPDT	24VAC/DC	—	1	2	2.3"H x 3.2"W x 1.8"D	RIB24P	**2ETA9**
DPDT	120VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB01P	**2ETC1**
DPDT	208 to 277VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB02P	**2ETC2**
DPDT	480VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB04P	**2ETC3**
3PST	24VAC/DC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB243P	**21GP33**
3PST	120VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB013P	**21GP34**
3PST	208 to 277VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB023P	**21GP35**
3PST	480VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB043P	**21GP36**
Pilot Duty, 30A							
DPST	120VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB01P30	**21GP39**
DPST	208 to 277VAC	—	1	2	4.0"H x 4.0"W x 1.8"D	RIB02P30	**21GP40**
DPDT	12VAC/DC	—	1	2	2.3"H x 3.2"W x 1.8"D	RIB12P30	**21GP37**
DPDT	24VAC/DC	—	1	2	2.3"H x 3.2"W x 1.8"D	RIB24P30	**21GP38**



No. 39F066

EATON

Current Sensors

Solid-state adjustable current switch is self-powered and able to sense current and provide output above and below setpoint. Suitable for applications such as jam detection, overload prevention, and critical loads.

Core Type	Sensing Amp Range	Status Indicator	1NC Mfr. Model	1NC Item No.	1NO Mfr. Model	1NO Item No.
Solid	1.00 to 150.00A	LED	ECSNCFSC	**39F064**	ECSNOASC	**39F063**
	1.00 to 150.00A	LED	ECSNCASC	**39F062**	ECSNOFSC	**39F065**
Split	1.75 to 150.00A	LED	ECSNCASP	**39F067**	ECSNOASP	**39F068**
	1.75 to 150.00A	LED	ECSNCFSP	**39F069**	ECSNOFSP	**39F066**

Universal AC Current Sensors

AIROTRONICS Timers & Controls | Dayton | MACROMATIC | RIB | Schneider Electric

Sensors detect locked rotor, loss of current, open heater, or lamp load. Dayton and Schneider models feature switch-selectable overcurrent or undercurrent sensing. Toroidal sensor has 0.36" through hole on Dayton models.

Contact Amps	Input Voltage	Contact Form	Trip Point	Trip Delay	Electrical Connection	Mfr. Model	Item No.
Airotronics							
1.00A	3 to 50VDC	1NO	Adjustable 3.00 to 45.00A	0.30 sec.	Quick Connect Tabs	HCSDC045A	**21EU16**
1.00A	Self Powered	1NO	Adjustable 6.00 to 30.00A	0.30 sec.	Quick Connect Tabs	HCSDC030A	**21EU15**
20.00A	Self Powered	LED	Adjustable 1.00 to 20.00A	None	Wire Leads	CSW/LED	**21EU14**
Dayton							
10.00A	24VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec.	Quick Connect Tabs	6C054	**6C054**
10.00A	24VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec.	Quick Connect Tabs	15V826	**15V826**
10.00A	120VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec.	Quick Connect Tabs	6C055	**6C055**
10.00A	120VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec.	Quick Connect Tabs	15V827	**15V827**
10.00A	240VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec.	Quick Connect Tabs	6C057	**6C057**
10.00A	240VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec.	Quick Connect Tabs	15V828	**15V828**
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec.	Terminal Strip	1EJF3	**1EJF3**
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec.	Terminal Strip	1EJF4	**1EJF4**
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec.	Terminal Strip	1EJF5	**1EJF5**
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec.	Terminal Strip	1EJF6	**1EJF6**
Macromatic							
10.00A	24VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec.	Terminal Strip	CAP10AD68	**485R28**
10.00A	120VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec.	Terminal Strip	CAP10AD62	**485R27**
RIB							
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec.	Terminal Strip	RIBXKTF	**21AJ42**
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec.	16" Wire Leads	RIBXKF	**21AJ44**
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec.	Terminal Strip	RIBXGTF	**21AJ45**
0.40A	30VAC/DC	1NO	Adjustable 0.75 to 150.00A	Less than 1 sec.	Terminal Strip	RIBXGTA	**21AJ46**
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec.	16" Wire Leads	RIBXGF	**21AJ47**
0.80A	30VAC/DC	1NO	Adjustable 0.50 to 150.00A	Less than 1 sec.	Terminal Strip	RIBXKTA	**21AJ43**
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec.	Terminal Strip	RIBXGHTF	**21AJ48**
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec.	16" Wire Leads	RIBXGHF	**21AJ49**
Schneider Electric							
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec.	Terminal Strip	841CS1-UNI	**6CWU0**
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec.	Terminal Strip	841CS2-UNI	**6CWU1**
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec.	Terminal Strip	841CS5-UNI	**6CWU2**
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec.	Terminal Strip	841CS8-UNI	**6CWU3**


No. 21EU16


No. 6C054


No. 6CWU3

1-Phase Voltage Sensing Relays

MACROMATIC

- Field adjustable for pull-up and dropout
- LED status indicators
- 0.1- to 10-sec. activation delay

Solid-state sensor works as an overvoltage or undervoltage detecting relay to prevent equipment burnout and offer brownout protection.

Input Voltage	Contact Form	Contact Amp Rating (Resistive)	Pick-Up Range	Drop-Out Range	Base Type	Socket	Mfr. Model	Item No.
12VDC	DPDT	10	9 to 15VDC	7 to 14VDC	Octal	5X852, 1EGP3, 1EGP5	VAKP012D	**45LV06**
24VDC	DPDT	10	18 to 30VDC	14 to 28VDC	Octal	5X852, 1EGP3, 1EGP5	VAKP024D	**45LV07**
120VAC	SPDT	15	80 to 150VAC	30% to 95%	DIN Rail	—	VWKE120A	**23NV46**
120VAC	DPDT	10	90 to 150VAC	68 to 142VAC	Octal	5X852, 1EGP3, 1EGP5	VAKP120A	**45LV08**
240VAC	SPDT	10	180 to 300VAC	135 to 285VAC	Octal	5X852	VAKP240A	**45LV09**
240VAC	SPDT	15	160 to 276VAC	30% to 95%	DIN Rail	—	VWKE240A	**23NV47**


No. 23NV46


No. 45LV09

3-Phase Line Monitors/ Phase Failure Relays

Dayton | Schneider Electric | MACROMATIC

- Automatic reset
- LED indicator signals normal operation
- Wye or delta 3-wire hookup

Units protect against phase loss, phase unbalance (except Nos. 5WMJ4, 5WMJ5, and 5WMJ6), phase reversal, and undervoltage. Adjustable undervoltage setting. Nos. 12N828 and 5WMJ3 also detect overvoltage.

Input Voltage	Contact Form	Voltage Unbalance	Socket	Brand	Mfr. Model	Item No.
190 to 500VAC	SPDT	2 to 10	5X852	Dayton	PMPU-B18	**31EE08**
190 to 500VAC	SPDT	2 to 10	5X852	Macromatic	PMPU	**5WMJ3**
190 to 500VAC	SPDT	6	5X852	Dayton	PMPU-FA8B18	**31EE09**
190 to 500VAC	SPDT	6	5X852	Macromatic	PMPU-FA8	**6MPP2**
190 to 500VAC	SPDT	—	5X852	Macromatic	PCPU	**45LU83**
190 to 500VAC	DPDT	—	—	Macromatic	PMDU	**45LU85**
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TA00	**12N827**
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TE00	**12N828**
208 to 480VAC	DPDT	2	—	Schneider Electric	RM35TF30	**12N826**
208VAC	SPDT	—	5X852	Macromatic	PAP208	**5WMJ4**
240VAC	SPDT	—	5X852	Macromatic	PAP240	**5WMJ5**
480 to 600VAC	SPDT	—	5X852	Macromatic	PMP575	**45LU84**
480 to 600VAC	DPDT	—	—	Macromatic	PMD575	**45LU86**
480VAC	SPDT	—	5X852	Macromatic	PAP480	**5WMJ6**


No. 5WMJ3


No. 12N826

Alternating Relays

MACROMATIC | Dayton

- Octal Base
- LED status indicators

Relays alternate the operation of 2 loads, sharing their run time. Selector switch allows alternating or individual operation of either load. Dual-stage load capacity permits simultaneous operation of 2 motors, solenoids, compressors, pumps, valves, or heaters. The relays return to load "A" after power outage. UL Recognized and CSA Certified.

Contact Form	Pins	Socket	Amps	Brand	COIL VOLTS 24VAC Mfr. Model	24VAC Item No.	120VAC Mfr. Model	120VAC Item No.	240VAC Mfr. Model	240VAC Item No.
SPDT	8	5X852	10	Macromatic	—	—	ARP120A6R	**6MPP1**	—	—
DPDT Cross-Wired	8	5X852	10	Macromatic	ARP024A3R	**6MPN8**	ARP120A3R	**6MPN9**	ARP240A3R	**6MPP0**
DPDT Cross-Wired	8	5X852, 1EGP3, 1EGP5	10	Dayton	6C051	**6C051**	6C052	**6C052**	6C053	**6C053**


No. 6MPN9

Pump Seal Failure Relay

MACROMATIC

- 8-pin octal base
- LED status indicator

Voltage	Switch Type	Max. Amps	Mfr. Model	Item No.
120VAC	SPDT	10	SFP120A100	**5WMJ7**
120VAC	(2) SPNO	10	SFP120C100	**5WMJ8**

Designed to monitor shaft seals in submersible pumps, and to provide an early warning of seal leak. No. 5WMJ7 is a single-channel unit, and No. 5WMJ8 is a dual-channel unit capable of monitoring 2 pumps.


No. 5WMJ7

Time-Delay Relay Selection Guide

Description of Time Delay Operation	Operation	Timing Periods	Function Code
ON DELAY: When power is APPLIED to the coil, the ON DELAY timing period begins. The contacts do not transfer at this time. At the end of the ON DELAY time period the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. The contacts stay in the transferred state until power is REMOVED from the coil. They then return to their original state and the unit is ready for a new cycle.	Power	On On On On Off	1
	Load	Off On On On Off	
OFF DELAY I: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the start switch is OPENED, the OFF DELAY timing period begins. The contacts stay in the transferred position until the OFF DELAY timing period ends. They then return to their original position and the unit is ready for a new cycle.	Power	On On On On On	2
	Switch	Off On On Off Off	
	Load	Off On On On Off	
OFF DELAY II: Power is applied to the coil at all times. Upon the MAKE and RELEASE of the start switch (a "dry" external contact), the OFF DELAY timing period begins and the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the timing period ends, the contacts return to their original position and the unit is ready for a new cycle.	Power	On On On On On	3
	Switch	Off On Off Off Off	
	Load	Off Off On On Off	
INTERVAL DELAY: When power is APPLIED to the coil (the start switch must be jumped in multifunction timers), the INTERVAL timing period begins and the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the INTERVAL timing period ends, the contacts return to their original position. The unit resets when power is removed from the coil, making the unit ready for a new cycle.	Power	On On On On Off	4
	Load	On On Off Off Off	
CYCLE 1 SHOT (EQUAL TIME OFF/ON): Upon application of power to the timer, timing starts. The output relay is OFF for the set time and then ON for the set time for 1 cycle only. The timer is reset when power is removed or a reset input is applied.	Power	On On On On On	5
	Switch	Off Off Off On On	
	Load	Off On Off Off On	
REPEAT CYCLE (EQUAL ON AND OFF DELAY TIME PERIODS): When power is APPLIED to the coil, the OFF time period is initiated; the contacts do not transfer. At the end of the OFF time period, the ON time period begins. The contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. At the end of the ON period, the contacts transfer and the cycle continues until power is removed from the coil.	Power	On On On On On	6
	Load	Off On Off On Off	
REPEAT CYCLE (INDEPENDENT ON AND OFF DELAY TIME PERIODS): When power is APPLIED to the coil, the ON period is initiated by contact transfer (normally open contacts close, normally closed contacts open). At the end of the OFF period, contacts release and the ON period begins. The cycle continues until power is removed from the coil.	Power	On On On On On	7
	Load	On Off On Off On	
SIGNAL INTERVAL/OFF DELAY: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the INTERVAL cycle begins; the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. At the end of the INTERVAL cycle, the OFF DELAY cycle begins and the contacts stay transferred until the OFF DELAY cycle ends. The contacts then return to their original positions and the unit is ready for a new cycle.	Power	On On On On On	8
	Switch	On On Off Off Off	
	Load	On On On Off Off	
SIGNAL ON DELAY/OFF DELAY: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the ON DELAY cycle begins; the contacts do not transfer. At the end of the ON DELAY cycle the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. Upon RELEASE of the start switch, the OFF DELAY cycle begins; the contacts remain transferred. At the end of the OFF DELAY cycle, the contacts return to their original positions and the unit is ready for a new cycle.	Power	On On On On On	9
	Switch	On On Off Off Off	
	Load	Off On On Off Off	
POWER OFF DELAY: When power is APPLIED to the coil, the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When power is removed from the coil, the OFF DELAY timing period begins; contacts remain transferred. At the end of the OFF DELAY cycle, the contacts return to their original positions and the unit is ready for a new cycle.	Power	On On On Off Off	10
	Load	On On On On Off	
WATCHDOG (RETRIGGERABLE SINGLE SHOT): Upon application of input voltage, the time delay relay is ready to accept trigger signals. Upon application of the trigger signal, the relay is energized and the preset time begins. At the end of the preset time, the relay is de-energized unless the trigger signal is closed and opened prior to time out (before preset time elapses). Continuous cycling of the trigger signal at a rate faster than the preset time will cause the relay to remain energized.	Power	On On On On On	11
	Switch	Off On On Off On	
	Load	Off On On Off On	



No. 6A857



No. 21EW83



No. 21EP67

Dayton AIROTRONICS Timers & Controls MACROMATIC

Encapsulated Time-Delay Relays

Solid-state technology provides a long service life, reducing maintenance costs and production loss due to downtime. ¼" quick-connect.

Function	Pins	Contact Form	Amps	Input Voltage	Timer Range	Item No.
Solid-State Output, Dayton						
Off Delay	5	SPST-NO	1A	24-240VAC	0.50 sec.-10.00 sec.	**6A857**
	5	SPST-NO	1A	24-240VAC	3.00 sec.-60.00 sec.	**6A858**
	5	SPST-NO	1A	24-240VAC	15.00 sec.-300.00 sec.	**6A859**
	5	SPST-NO	1A	24VAC	0.05 sec.-1.00 sec.	**5WML4**
	5	SPST-NO	1A	12-125VDC	0.05 sec.-1.00 sec.	**5WML7**
	5	SPST-NO	1A	12-125VDC	0.50 sec.-10.00 sec.	**5WML8**
	5	SPST-NO	1A	12-125VDC	3.00 sec.-60.00 sec.	**5WML9**
On Delay	2	SPST-NO	1A	24-240VAC/12-48VDC	0.05 sec.-1.00 sec.	**2A559**
	2	SPST-NO	1A	24-240VAC/12-48VDC	0.25 sec.-5.00 sec.	**2A560**
	2	SPST-NO	1A	24-240VAC/12-48VDC	0.50 sec.-10.00 sec.	**2A561**
	2	SPST-NO	1A	24-240VAC/12-48VDC	3.00 sec.-60.00 sec.	**2A562**
Relay Output, Airotronics						
Interval/Watchdog	6	SPDT	10A	120VAC	1.00 sec.-100.00 sec.	**21EW97**
	6	SPDT	10A	24VAC	1.00 sec.-100.00 sec.	**21EW98**
	6	SPDT	10A	24-28VDC	1.00 sec.-100.00 sec.	**21EW99**
	6	SPDT	10A	12VDC	1.00 sec.-100.00 sec.	**21EX01**
On Delay	2	SPST-NO	1A	19-265VAC/10-120VDC	0.01 sec.-102.30 sec.	**21EW87**
	2	SPST-NO	1A	19-265VAC/10-120VDC	1.00 sec.-1023.00 sec.	**21EW88**
	2	SPST-NO	1A	19-265VAC/10-120VDC	10.00 sec.-10,230.00 sec.	**21EW89**
On Delay, Off Delay, 1-Shot, Interval, Reset 1-Shot/Watchdog	6	SPDT	10A	120VAC	0.10 sec.-1023 min.	**21EW77**
	6	SPDT	10A	230VAC	0.10 sec.-1023 min.	**21EW78**
	6	SPDT	10A	24VAC	0.10 sec.-1023 min.	**21EW79**
	6	SPDT	10A	12VDC	0.10 sec.-1023 min.	**21EW80**
	6	SPDT	10A	24VDC	0.10 sec.-1023 min.	**21EW81**
On Delay, Off Delay, 1-Shot On Make, Interval On, 1-Shot On Break, Retrigger Interval, Retrigger 1-Shot, Delay On Make w/ Initiate, Repeat Cycle On/Off Delay	6	SPDT	10A	120VAC	1.00 sec.-100 min.	**21EW82**
	6	SPDT	10A	230VAC	1.00 sec.-100 min.	**21EW83**
	6	SPDT	10A	24VAC	1.00 sec.-100 min.	**21EW84**
	6	SPDT	10A	12VDC	1.00 sec.-100 min.	**21EW85**
	6	SPDT	10A	24VDC	1.00 sec.-100 min.	**21EW86**
Repeat Cycle	5	SPDT	10A	120VAC	0.10 sec.-102.30 sec.	**21EW91**
	5	SPDT	10A	120VAC	1.00 sec.-1023.00 sec.	**21EW92**
	5	SPDT	10A	24VAC	0.10 sec.-102.30 sec.	**21EW93**
	5	SPDT	10A	24VAC	1.00 sec.-1023.00 sec.	**21EW94**
	5	SPDT	10A	12VDC	0.10 sec.-102.30 sec.	**21EW95**
	5	SPDT	10A	12VDC	1.00 sec.-1023.00 sec.	**21EW96**
Repeat Cycle Equal Time	2	SPST-NO	1A	24-240VAC/12-48VDC	Fixed 0.80 sec.	**21EW90**
Relay Output, Macromatic						
On Delay, Off Delay, Interval, 1-Shot	9	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-100 min.	**21EP67**
Repeat Cycle Equal Time, Watchdog, 1-Shot Falling Edge	9	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-100 min.	**21EP68**
Repeat Cycle Independent On and Off Delay Time Periods, Delayed Interval, Triggered Delayed Interval	7	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-1000 min.	**21EP69**

See this page for operating function information.



No. H7851

Extended Time-Delay Relays

Dayton Schneider Electric

Pins	Base Type	Contact Form	Contact Amp Rating (Resistive)	Operating Functions	Socket Code†	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	DAYTON Item No.	SCHNEIDER ELECTRIC Item No.
On Delay										
8	Square	DPDT	5A	1	Q	12VDC; 24VAC; 24VDC; 120VAC; 240VAC	0.10 sec.	100 hr.	**H7851**	**H7849**
14	Square	4PDT	3A	1	G		0.10 sec.	100 hr.	**H7850**	**H7848**

† See page 216 for sockets.

SQUARE D by Schneider Electric | Dayton | EATON | OMRON® | MACROMATIC | Schneider Electric | Autonics Sensors & Controllers

Multifunction Time-Delay Relays

Function	Pins	Contact Form	Contact Amp Rating (Resistive)	Function Code*	Socket Code†	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	Item No.
Autonics									
Power Off Delay	8	DPDT	3A	10	A	24VAC/DC; 100 to 120VAC; 200 to 240VAC	0.05 sec.	10 sec.	**H7853**
	8	DPDT	3A	10	A	24VAC/DC; 100 to 120VAC; 200 to 240VAC	3.00 sec.	10 min.	**H7854**
Signal On Delay, Flicker, Flicker 1, Signal Off Delay, Signal On/Off Delay, Interval	11	SPDT	5A	6	B	100 to 240VAC	0.05 sec.	100 hr.	**H7856**
Dayton									
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, On/Off Delay, Latching Relay, Pulse Generator, Watchdog	6	SPDT	15A	1, 2, 3, 4, 6, 8, 9	—	12 to 240VAC/DC	0.1 sec.	240 hr.	**31EE11**
	9	DPDT	15A	1, 2, 3, 4, 6, 8, 9	—	12 to 240VAC/DC	0.1 sec.	240 hr.	**31EE12**
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, Watchdog (Retriggerable Single Shot), Single Shot (Falling Edge), Triggered On Delay, Repeat Cycle (Off First), Repeat Cycle (On First), Delayed Interval, Triggered Delayed Interval, On/Off Delay, Single Shot/Flasher, On Delay/Flasher	8	SPDT	10A	1, 2, 3, 4, 5, 6, 7, 8, 9, 11	A	120VAC/DC	50 msec	10,230 hr.	**31EE10**
On Delay, Interval On, Off Delay, Single Shot, Flasher (Off First), Flasher (On First), On/Off Delay, Single Shot Falling Edge, Watchdog, Triggered On Delay	11	DPDT	10A	1, 2, 3, 4, 6, 7, 9, 11	B	12VDC; 24VAC/DC; 120VAC; 240VAC	0.05 sec.	999 hr.	**H7785**
On Delay, Off Delay, Interval Delay, Cycle 1 Shot, Repeat Cycle, Signal Interval/Off Delay, Signal On Delay/Off Delay	8	SPDT	12A	1, 2, 4, 5, 6, 8, 9	A	12 to 240VAC/DC	0.1 sec.	9990 hr.	**1EJN7**
	11	DPDT	12A	1, 2, 4, 5, 6, 8, 9	B	12 to 240VAC/DC	0.1 sec.	9990 hr.	**1EJN6**
Eaton									
ON Delay, Interval, Cycle (Off First), Cycle (On First)	8	DPDT	10A	1, 2, 3, 4	A	24VAC/DC; 120VAC	0.1 sec.	600 hr.	**H7786**
	11	DPDT	10A	1, 2, 3, 4	C	24VAC/DC	0.1 sec.	600 hr.	**H7784**
	11	DPDT	10A	1, 2, 3, 4	B	120VAC	0.1 sec.	600 hr.	**H7784**
ON Delay (Voltage Controlled), OFF Delay (with Control Input), Single Shot Leading Edge (Voltage Controlled), Symmetric Pulse Generator	8	SPDT	8A	8, 9, 10 + 1 Others	—	24 to 240VAC/DC	0.5 sec.	100 hr.	**20XF98**
Macromatic									
On Delay, Interval On, Flasher(Off First), Flasher(On First), Off Delay, Single Shot, On Delay/Off Delay, Latching Relay, Pulse Generator(Pulse=0.5 Sec.),Watchdog	6	SPDT	15A	1, 2, 4, 6, 9, 11	—	12 to 240VAC/DC	0.1 sec.	240 hr.	**23NV42**
	9	DPDT	15A	1, 2, 4, 6, 9, 11	—	12 to 240VAC/DC	0.1 sec.	240 hr.	**23NV43**
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, Watchdog, Single Shot (Trailing Edge), Triggered On Delay, Repeat Cycle (Off First), Repeat Cycle (On First), Delayed Interval, Triggered Delayed Interval, On Delay/Off Delay, Single Shot-Flasher & On Delay/Flasher	8	SPDT	10A	1, 2, 3, 4, 5, 6, 7, 9, + 8 Others	A	24VAC/DC; 120VAC/ DC; 240VAC	50 msec	10,230 hr.	**H7781**
Omron									
On Delay, Interval Delay, Cycle 1 Shot	8	DPDT	5A	1, 4, 5, 6	A	24 to 48VAC/12 to 48VDC	0.05 sec.	300 hr.	**H7806**
On Delay, Interval Delay, Repeat Cycle Equal On/Off Times	8	DPDT	5A	1, 4, 6	K	24VAC; 120VAC; 200 to 240VAC	0.1 sec.	10 min.	**H7793**
	14	4PDT	3A	1, 4, 6	G	120VAC	0.1 sec.	10 min.	**4KN17**
On Delay, Interval Delay, Repeat Cycle Equal On/Off Times, Cycle 1 Shot	8	DPDT	5A	1, 4, 5, 6	A	120 to 240VAC	0.05 sec.	300 hr.	**H7806**
On Delay, Off Delay 1, Off Delay 2, Interval Delay, Cycle 1 Shot, Repeat Cycle Equal On/Off Time, Signal Interval/Off Delay, Signal On Delay/Off Delay	11	SPDT	3A	1, 2, 3, 4, 5, 6, 8, 9	B	24 to 240VAC/12 to 240VDC	0.1 sec.	9990 hr.	**1A983**
Power Off Delay	8	DPDT	5A	10	A	120VAC	0.05 sec.	12 sec.	**6C759**
	8	DPDT	5A	10	A	120VAC	3 sec.	12 min.	**2A436**
Repeat Cycle	8	DPDT	5A	7	A	120VAC	0.05 sec.	30 hr.	**2A179**
Schneider Electric									
On Delay, Off Delay, Interval Delay, Cycle 1 Shot, Repeat Cycle	11	DPDT	12A	1, 2, 4, 5, 6	B	12 to 240VAC/DC	0.1 sec.	9990 hr.	**6AGT7**
On Delay (Power On), Repeat Cycle (Starting Off), Interval (Power On)	8	DPDT	12A	1, 2, 4, 5	A	12 to 240VAC/DC	0.1 sec.	9990 hr.	**6CXD1**
On Delay (Power On), Repeat Cycle (Starting Off), Interval (Power On), Off Delay (S Break), Retriggerable One Shot, Repeat Cycle (Starting On), Pulse Generator, One Shot, On/ Off Delay (S Make/Break), Memory Hold (S Make)	8	SPDT	12A	1, 2, 4, 5	A	12 to 240VAC/DC	0.1 sec.	9990 hr.	**6CXD0**
Square D									
Off Delay, On Delay, Interval, One shot, Repeat Cycle	11	DPDT	10A	1, 2, 4, 5, 6	B	24VAC/DC; 120VAC; 240VAC	0.05 sec.	999 min.	**H7788**

** See page 222 for timing functions. † See page 216 for sockets.*


No. H7793


No. H7781



No. H7785


No. 1EJN6


No. 1A983


No. 2A179

Pins	Base Type	Contact Form	Contact Amp Rating (Resistive)	Operating Functions†	Socket Code‡	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	DAYTON Item No.	MACROMATIC Item No.
Interval On										
8	Octal	DPDT	10A	4	A	12VDC; 24VAC/DC; 120VAC; 240VAC	0.10 sec.	10 sec.	**H7811**	**H8234**
							0.60 sec.	60 sec.	**H7822**	**H7794**
							1.80 sec.	3 min.	**H7820**	**H7795**
							3.00 sec.	5 min.	**H7821**	**H7796**
Off Delay										
11	Octal	DPDT	10A	2	B	12VDC; 24VAC/DC; 120VAC; 240VAC	0.10 sec.	10 sec.	**H7824**	**H7797**
							0.60 sec.	60 sec.	**H7800**	**H7801**
							1.80 sec.	3 min.	**H7826**	**H7802**
							3.00 sec.	5 min.	**H7827**	**H7803**
							9.00 sec.	15 min.	**H7825**	**H7804**
On Delay										
8	Octal	DPDT	10A	1	A	12VDC; 24VAC/DC; 120VAC; 240VAC	0.01 sec.	1 sec.	**H7805**	—
							0.05 sec.	5 sec.	**H7808**	**H7829**
							0.05 sec.	999 hr.	**H7809**	—
							0.10 sec.	10 sec.	**H7810**	**H7830**
							0.60 sec.	60 sec.	**H7816**	**H7831**
							1.80 sec.	3 min.	**H7815**	**H7832**
							3.00 sec.	5 min.	**H7823**	**H7833**
							9.00 sec.	15 min.	**H7813**	**H7834**
Power Off Delay (True Off Delay)										
8	Octal	DPDT	10A	10	A	12VDC; 24VAC/DC; 120VAC; 240VAC	0.05 sec.	30 min.	**H7807**	**H7840**
Repeat Cycle (On First)										
8	Octal	DPDT	10A	7	A	12VDC; 24VAC/DC; 120VAC; 240VAC	0.10 sec.	10 sec.	**H7812**	**H7835**
							0.60 sec.	60 sec.	**H7819**	**H7836**
							1.80 sec.	3 min.	**H7817**	**H7837**
							3.00 sec.	5 min.	**H7818**	**H7838**
							9.00 sec.	15 min.	**H7814**	**H7839**

† See page 222 for timing functions. ‡ See page 216 for sockets.

Dayton | MACROMATIC

Time-Delay Relays


No. H7800



No. H7827


No. H7812



No. H7840

Logic Relays and Extension Modules

Schneider Electric



No. 1CNL2



No. 1CNL4

- 16 counters and timers
- Integral display

Expandable design allows users to manage a simple automation system with multiple inputs and outputs, without the need for a complex programmable controller. 6-button navigation allows direct programming in any of several computer languages. Compact, space-saving design. Extension modules add inputs and outputs to customize systems for specific needs. Programming software No. 1CNL6 and PC connection cable No. 1CNL7 permit uploading programs from a PC, directly to multiple relays. Use for small machinery and supplemental large machinery automation systems, lighting management, security systems management, and HVAC management.

No. of Inputs	No. of Outputs	W	H	D	Mfr. Model	24VDC Item No.	100 to 240VAC Item No.	24VAC Item No.
Relay Output								
6	4	2.80"	4.24"	2.34"	SR2D101	**2GNK4**	**2GNL4**	—
12	8	4.91"	4.24"	2.34"	SR2E201	**2GNL1**	—	—
Relay Output with Clock								
8	4	2.80"	4.24"	2.34"	SR2E121	**2GNK7**	**2GNL7**	—
12	8	4.91"	4.24"	2.34"	SR2E201	—	**2GNN1**	—
Relay Output with Display								
12	8	4.91"	4.24"	2.34"	SR2A201	**2GNH3**	**2GNJ7**	—
6	4	2.50"	3.50"	3.90"	SR2A101	—	**1CNL2**	—
Relay Output with Display and Clock								
6	4	2.80"	4.24"	2.34"	SR3B101	**2GNN5**	**2GNR8**	**2GNR1**
8	4	2.80"	4.24"	2.34"	SR2B121	**1CNL1**	**1CNL3**	**2GNJ3**
12	8	4.91"	4.24"	2.34"	SR2B201	**2GNH6**	**2GNK1**	**2GNJ5**
16	10	4.91"	4.24"	2.34"	SR3B261	**2GNP4**	**2GNT2**	**2GNR4**
Transistor Output with Display and Clock								
6	4	2.80"	4.24"	2.34"	SR3B102	**2GNN9**	—	—
8	4	2.80"	4.24"	2.34"	SR2B122	**2GNG9**	—	—
12	8	4.91"	4.24"	2.34"	SR2B202	**2GNH9**	—	—
16	10	4.91"	4.24"	2.34"	SR3B262	**2GNP7**	—	—
Discrete Inputs/Outputs Extension Modules, For Use With SR3B Series Above								
4	2	—	—	—	SR3XT61	**2GNT8**	**2GNU5**	**2GNU2**
6	4	—	—	—	SR3XT101	**1CNL4**	**2GNV2**	**2GNU8**
8	6	—	—	—	SR3XT141	**2GNV5**	**1CNL5**	**2GNV8**
Analog Inputs/Outputs Extension Module, For Use With SR3B Series Above								
2	2	—	—	—	SR3XT43	**2GNW2**	—	—
Communications Extension Module, For Use With SR3B Series Above								
0	0	—	—	—	SR3MBU01	**2GNT5**	—	—

Accessories		
CD-ROM Programming Software	SR2SFT01	**1CNL6**
PC Connection Cable, RS-32 Connector	SR2CBL01	**1CNL7**
PC Connection Cable, PC USB to 1CNL7	SR2CBL06	**2GNW5**
PC Connection Cable, PC USB to Relay	SR2USB01	**2GNW8**
Memory Cartridge, EEPROM	SR2MEM02	**2GNX2**
Add-In Memory, EEPROM	SR2MEM01	**1CNL8**

Programmable Relays

EATON



No. 20JM39



No. 20JM23

- 16 counters and timers (easy 500/700)
- 32 counters and timers (easy 800)

Easy to use Programmable Relays feature expandable design that allows you to manage a simple automation system with multiple inputs and outputs, without the need for a complex programmable controller. Large front display with calendar and clock allows easy navigation for alarms, operator messages, or direct programming. Compact, space-saving design with extension modules that add inputs and outputs to customize systems for specific needs. They are also easy to connect via Ethernet or Profibus to other PLC's or automation systems. Use for small machinery and supplemental large machinery automation systems, lighting management, security systems management, and HVAC systems.

Memory	Slots	Clock	Output Type	Input Voltage	No. of Inputs	No. of Outputs	W	H	D	Mfr. Model	Item No.
Programmable Relay											
16 KB	Expand Up to 40	Yes	Relay	120/240VAC	12	6	4.23"	3.54"	2.08"	EASY719-AC-RC	**20JM18**
16 KB	Expand Up to 40	No	Relay	120/240VAC	12	6	4.23"	3.54"	2.08"	EASY719-AC-RCX	**20JM19**
16 KB	Expand Up to 40	Yes	Relay	12VDC	12	6	4.23"	3.54"	2.08"	EASY719-DA-RC	**20JM20**
16 KB	Expand Up to 40	Yes	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY719-DC-RC	**20JM21**
16 KB	Expand Up to 40	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY719-DC-RCX	**20JM22**
16 KB	Expand Up to 40	Yes	Transistor	24VDC	12	6	4.23"	3.54"	2.08"	EASY721-DC-TC	**20JM23**
16 KB	Expand Up to 40	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY721-DC-TCX	**20JM24**
32 KB	Expand Up to 320	Yes	Relay	120/240VAC	12	6	4.23"	3.54"	2.08"	EASY819-AC-RC	**20JM31**
32 KB	Expand Up to 320	No	Relay	120/240VAC	12	6	4.23"	3.54"	2.08"	EASY819-AC-RCX	**20JM32**
32 KB	Expand Up to 320	Yes	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY819-DC-RC	**20JM33**
32 KB	Expand Up to 320	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY819-DC-RCX	**20JM34**
32 KB	Expand Up to 320	Yes	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY820-DC-RC	**20JM35**
32 KB	Expand Up to 320	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY820-DC-RCX	**20JM36**
32 KB	Expand Up to 320	Yes	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY821-DC-TC	**20JM37**
32 KB	Expand Up to 320	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY821-DC-TCX	**20JM38**
32 KB	Expand Up to 320	Yes	Transistor	24VDC	12	6	4.23"	3.54"	2.08"	EASY822-DC-TC	**20JM39**
32 KB	Expand Up to 320	No	Relay	24VDC	12	6	4.23"	3.54"	2.08"	EASY822-DC-TCX	**20JM40**
Software											
Programming Software for Easy 500/700 Series				—	—	—	—	—	—	EASY-SOFT-BASIC	**20JM52**
Programming Software for Easy 800 Series and Titan Displays				—	—	—	—	—	—	EASY-SOFT-PRO	**20JM53**
Extension Module											
(2) Analog In, (1) Analog Out, For Use With Easy 700 and 800 Series				24VDC	2	1	2.81"	3.54"	2.08"	EASY406-DC-ME	**20JL97**
Network, Ethernet Gateway, Serial Interface, For Use With Easy 700/800 Programmable Relays and MFD-Titan Multi-Function Displays				—	0	0	1.4"	3.5"	2.1"	EASY209-SE	**20JL93**
Profibus DP Gateway, Interface to Easy 500, 700, 800 or Titan Displays				—	0	0	—	—	—	Easy204-DP	**20JM45**
Relay Output, For Use With Easy 700 and 800 Series				120/240VAC	12	6	—	—	—	EASY618-AC-RE	**20JM13**
Relay Output, For Use With Easy 700 and 800 Series				24VDC	12	6	—	—	—	EASY618-DC-RE	**20JM14**
Transistor Output, For Use With Easy 700 and 800 Series				24VDC	12	8	—	—	—	EASY620-DC-TE	**20JM16**
Connecting Cable											
Programming Cable for Easy 500/700 with USB				—	—	—	—	—	—	EASY-USB-CAB	**20JM56**
Programming Cable for Easy 800/MFD with USB				—	—	—	—	—	—	EASY800-USB-CAB	**20JM28**



No. 2REP7



No. 2REP1

OMRON INDUSTRIAL AUTOMATION

Programmable Relays

- 56 timers and 17 counters
- LCD with calendar and clock

Provide relay, timer, counter, and time switch functions; easily programmable in ladder-view format. With weekly and calendar timers, flexible mounting expansion via 8-point I/O units, twin-timer operation, and multilanguage display. DC models have analog inputs. For use in time-controlled and small-scale applications such as lighting and air conditioning.

Input Voltage	Output Type	Amps	No. of Inputs	No. of Outputs	W	H	D	Mfr. Model	Item No.
Expandable									
100 to 240VAC	Relay	4.5	6	4	2.75"	3.54"	2.20"	ZEN-10C1AR-A-V2	**2REN9**
100 to 240VAC	Relay	4.5	12	8	4.82"	3.54"	2.20"	ZEN-20C1AR-A-V2	**2REP7**
12 to 24VDC	Relay	30.0	6	4	2.75"	3.54"	2.20"	ZEN-10C1DR-D-V2	**2REP1**
12 to 24VDC	Transistor	30.0	6	4	2.75"	3.54"	2.20"	ZEN-10C1DT-D-V2	**2REP2**
12 to 24VDC	Transistor	30.0	12	8	4.82"	3.54"	2.20"	ZEN-20C1DT-D-V2	**2REP8**
Nonexpandable									
100 to 240VAC	Relay	4.5	6	4	2.75"	3.54"	2.20"	ZEN-10C3AR-A-V2	**2REP3**
100 to 240VAC	Relay	4.5	12	8	4.82"	3.54"	2.20"	ZEN-20C3AR-A-V2	**2REP9**
12 to 24VDC	Relay	30.0	6	4	2.75"	3.54"	2.20"	ZEN-10C3DR-D-V2	**2REP4**
12 to 24VDC	Relay	30.0	12	8	4.82"	3.54"	2.20"	ZEN-20C3DR-D-V2	**2RER1**
With RS-485 Communication									
100 to 240VAC	Relay	4.5	6	3	2.75"	3.54"	2.20"	ZEN-10C4AR-A-V2	**2REP5**
12 to 24VDC	Relay	30.0	6	3	2.75"	3.54"	2.20"	ZEN-10C4DR-D-V2	**2REP6**
Extension Modules									
100-240VAC	Relay	—	4	4	—	—	—	ZEN-8E1AR	**2RER2**
12-24VDC	Relay	—	4	4	—	—	—	ZEN-8E1DR	**2RER3**
12-24VDC	Transistor	—	4	4	—	—	—	ZEN-8E1DT	**2RER4**
Accessories									
Support Software								ZEN-SOFT01V4	**2RER5**
Connecting Cable								ZEN-CIF01	**2RER6**
Memory Cassette								ZEN-ME01	**2RER7**
Battery Unit								ZEN-BAT01	**2RER8**



CUB4 Series
No. 13C874



CUB5 Series
No. 13C888

red lion

CUB Series Miniature Panel Meters

- NEMA 4X/IP65 sealed front bezel

Backlight units require external power, typically 12/24VDC.

CUB4 Series have 0.46"H (12mm) digits, a large display, and a NEMA 4X front panel with a faster count rate and push buttons that can be displayed.

CUB7 Series have 0.35"H (9mm) digits with a NEMA 4X front panel, and faster count rate and push buttons that can be displayed.

CUB5 Series have 0.46"H (12mm) digits, and are designed to include option cards for setpoints and communications.

Description	No. of Digits	Item No.
Counter, CUB4 Series		
Electronic Counter, Backlit Red LCD	6	**13C874**
Electronic Counter, Backlit Red LCD	8	**13C877**
Electronic Counter, Backlit Yellow-Green LCD	6	**13C873**
Electronic Counter, Backlit Yellow-Green LCD	8	**13C876**
Electronic Counter, LCD	6	**13C872**
Electronic Counter, LCD	8	**13C875**
Counter, Fit Standard 1/32 DIN Panel Cutout, Internal Lithium Battery Powered, CUB7 Series		
28VDC Max. Input, 10 KHz, Backlit Red LCD	8	**13C902**
28VDC Max. Input, 10 KHz, Backlit Yellow-Green LCD	8	**13C901**
28VDC Max. Input, 10 KHz, LCD	8	**13C903**
50 to 250VAC/DC Input, 1 Hz, Backlit Red LCD	8	**13C905**
50 to 250VAC/DC Input, 1 Hz, Backlit Yellow-Green LCD	8	**13C904**
50 to 250VAC/DC Input, 1 Hz, LCD	8	**13C906**
Counter/Rate, CUB5 Series		
20 KHz Input, Backlit Red/Green LCD	8	**13C881**
20 KHz Input, LCD	8	**13C888**
DC Current, CUB4 Series		
0 to 200mADC Input, Backlit Red LCD	3½	**13C871**
0 to 200mADC Input, Backlit Yellow-Green LCD	3½	**13C870**
0 to 200mADC Input, LCD	3½	**13C869**
DC Current, CUB5 Series		
0 to 200mADC Input, Backlit Red/Green LCD	5	**13C884**
0 to 200mADC Input, LCD	5	**13C885**
DC Process, CUB5 Series		
0 to 50mADC, 0 to 10VDC Input, Backlit Red/Green LCD	5	**13C886**
0 to 50mADC, 0 to 10VDC Input, LCD	5	**13C887**
DC Voltage, CUB4 Series		
0 to 200VDC Input, Backlit Red LCD	3½	**13C880**
0 to 200VDC Input, Backlit Yellow-Green LCD	3½	**13C879**
0 to 200VDC Input, LCD	3½	**13C878**
DC Voltage, CUB5 Series		
0 to 200VDC Input, Backlit Red/Green LCD	5	**13C898**
0 to 200VDC Input, LCD	5	**13C899**
Temperature, CUB5 Series		
RTD Input, Backlit Red/Green LCD	5	**13C890**
RTD Input, LCD	5	**13C891**
Thermocouple Input, Backlit Red/Green LCD	5	**13C894**
Thermocouple Input, LCD	5	**13C895**
Timer, CUB5 Series		
Preset Timer and Cycle Counter, Backlit Red/Green LCD	7	**13C893**
Preset Timer and Cycle Counter, LCD	7	**13C896**
Timer, Fit Standard 1/32 DIN Cutout, Internal Lithium Battery Powered, CUB7 Series		
28VDC Max. Programmable Input, Times on High Input, Backlit Red LCD	8	**13C922**
28VDC Max. Programmable Input, Times on High Input, Backlit Yellow-Green LCD	8	**13C920**
28VDC Max. Programmable Input, Times on High Input, LCD	8	**13C924**
28VDC Max. Programmable Input, Times on Low Input, Backlit Red LCD	8	**13C921**
28VDC Max. Programmable Input, Times on Low Input, Backlit Yellow-Green LCD	8	**13C919**
28VDC Max. Programmable Input, Times on Low Input, LCD	8	**13C923**
50 to 250VAC/DC Programmable Input, Backlit Red LCD	8	**13C926**
50 to 250VAC/DC Programmable Input, Backlit Yellow-Green LCD	8	**13C925**
50 to 250VAC/DC Programmable Input, LCD	8	**13C927**
Accessories for Use with CUB4, CUB5 Panel Meters		
Plastic Enclosure For Single Units		**13C944**
Accessories for Use with CUB5 Panel Meters		
CUB5 or MLPS DIN Rail Base Mount Kit		**12N114**
CUB5 Single Relay Option Card, Form C Output		**13C889**
Dual Sinking Open Collector Output Card, NPN Output		**13C892**
Micro Line/Sensor Power Supply +12VDC, 12VDC Output		**13C978**
Micro Line/Sensor Power Supply +24VDC, 24VDC Output		**13C979**
Plastic Enclsoure for Units with an MLPS1 attached		**13C945**
RS232 Serial Communication Card, RS232 Cards Output		**13C883**
RS485 Serial Communication Card, RS485 Cards Output		**13C882**
USB Serial Communication Card, USB Output		**13C897**



No. 13D034



No. 13D001

red lion

Digital Panel Meters

- NEMA 4X, IP65 rated

1/8 DIN cutout with LED display. 4.1" deep; screw terminal connection.

Power Req.	Input Range	Display Digits	Excitation	Mfr. Model	Item No.
AC Current					
115/230VAC	0 to 2AAC	3½	—	PAXLIA00	**13D032**
115/230VAC	0 to 5AAC	3½	—	PAXLIT00	**13D034**
AC Voltage					
115/230VAC	0 to 300VAC	3½	—	PAXLVA00	**13D040**
115/230VAC	0 to 600VAC	3	—	PAXLHV00	**13D031**
AC Voltage/AC Current					
85 to 250VAC	0-300VAC/0-5AAC	5	—	PAXH0000	**13D022**
Clock/Timer					
85 to 250VAC	Programmable	6	12VDC	PAXCK000	**13D016**
18 to 36VDC/24VAC	Programmable	6	12VDC	PAXCK010	**13D017**
DC Current					
115/230VAC	0 to 2ADC	3½	—	PAXLID00	**13D033**
DC Voltage					
115/230VAC	0 to 300VDC	3½	—	PAXLVD00	**13D041**
85 to 250VAC	±25VDC	3½	24VDC	PAXLPV00	**13D036**
DC Voltage/DC Current					
50 to 250VAC/22 to 250VDC	0-200VDC/0-200mADC	5	24VDC	PAXLA0U0	**13D025**
85 to 250VAC	±300VDC/ ±2ADC	5	24VDC	PAXD0000	**13D018**
18 to 36VDC/24VAC	±300VDC/ ±2ADC	5	24VDC	PAXD0010	**13D019**
Electronic Counter					
115/230VAC, 11 to 14VDC	25,000	8	9 to 17VDC	PAXLC800	**13D028**
85 to 250VAC	34,000	6	12VDC	PAXC0020	**13D001**
18 to 36VDC/24VAC	34,000	6	12VDC	PAXC0030	**13D002**
Electronic Counter Rate Meter					
50 to 250VAC/22 to 250VDC	25,000	6	24VDC	PAXLCRU0	**13D030**
85 to 250VAC	34,000	6	12VDC	PAXI0020	**13D023**
18 to 36VDC/24VAC	34,000	6	12VDC	PAXI0030	**13D024**
Process					
85 to 250VAC	(2) ±10VDC or (2) ±20mADC	5	18VDC	PAXDP000	**13D020**
18 to 36VDC/24VAC	(2) ±10VDC or (2) ±20mADC	5	18VDC	PAXDP010	**13D021**
85 to 250VAC	0 to 50mADC	3½	24VDC	PAXLCL00	**13D029**
85 to 250VAC	0-10VDC/0-20mADC	5	24VDC	PAXP0000	**13D042**
18 to 36VDC/24VAC	0-10VDC/0-20mADC	5	24VDC	PAXP0010	**13D043**
Process Time					
115/230VAC/10 to 16VDC	25 KHz	6	9 to 17VDC	PAXLPT00	**13D035**
Rate					
115/230VAC/10 to 16VDC	25 KHz	6	9 to 17VDC	PAXLR000	**13D037**
85 to 250VAC	34 KHz	6	12VDC	PAXR0020	**13D044**
18 to 36VDC/24VAC	34 KHz	6	12VDC	PAXR0030	**13D045**
Strain Gauge					
85 to 250VAC	0-240mVDC	5	5VDC / 10VDC	PAXS0000	**13D046**
18 to 36VDC/24VAC	0-240mVDC	5	5VDC / 10VDC	PAXS0010	**13D047**
85 to 250VAC	±2VDC	3½	5VDC / 10VDC	PAXLSG00	**13D038**
Temperature					
50 to 250VAC/22 to 250VDC	TC/RTD	5	24VDC	PAXLT0U0	**13D039**
85 to 250VAC	TC/RTD	5	—	PAXT0000	**13D048**
18 to 36VDC/24VAC	TC/RTD	5	—	PAXT0010	**13D049**
Timer					
85 to 250VAC	Programmable	6	12VDC	PAXTM000	**13D050**
18 to 36VDC/24VAC	Programmable	6	12VDC	PAXTM010	**13D051**
Universal Digital Input					
50-250VAC/22-250VDC	Universal	6/9	18VDC	PAX2D000	**18G530**
Universal Process					
40-250VAC/21.6-250VDC	Universal	6/9	18VDC	PAX2A000	**18G529**
Universal Strain Gauge					
50-250VAC/22-250VDC	Universal	6/9	18VDC	PAX2S000	**18G531**
PAX Meter Accessories					
DIN Rail Pax Base Mount Kit				BMK90000	**12N115**
Fiberglass Enclsoure for 1 Pax Unit				ENC5B000	**13C942**
Fiberglass Enclosure for 2 Pax Units				ENC5C000	**13C943**
RS485 Serial Communications Output Card with Terminal Block, RS485 Output				PAXCDC10	**13D003**
Extended RS485 Serial Communications Output Card with Dual RJ11 Connector, RS485 Output				PAXCDC1C	**13D004**
RS232 Serial Communications Output Card with Terminal Block, RS232 Output				PAXCDC20	**13D005**
Extended RS232 Serial Communications Output Card with 9 Pin D Connector, RS232 Output				PAXCDC2C	**13D006**
PAXCDC DeviceNet Output Option Card, DeviceNet Output				PAXCDC30	**13D007**
PAXCDC MODBUS Output Option Card, RS485 Modbus Output				PAXCDC40	**13D008**
PAXCDC MODBUS Output Option Card with RJ11 Connector, RS485 Modbus Output				PAXCDC4C	**13D009**
PAXCDC PROFIBUS-DP Communications Card, Profibus Output				PAXCDC50	**13D010**
PAXCDL Analog Output Plug-In Option Card, 0-20mA/0-10V Output				PAXCDL10	**13D011**
PAXCDS Quad Relay Output Plug-In Option Card, (2) Form C Relay Output				PAXCDS10	**13D012**
PAXCDS Dual Relay Output Plug-In Option Card, (4) Form A Relay Output				PAXCDS20	**13D013**
PAXCDS Quad Sinking Open Collector Output Card, (4) NPN Output				PAXCDS30	**13D014**
PAXCDS Quad Sourcing Open Collector Output Card, (4) PNP Output				PAXCDS40	**13D015**
Label Kit for PAX Meters 189 labels				PAXLBK10	**13D026**
Label Kit for PAX Lite Analog Meters				PAXLBK30	**13D027**
PAX USB Programming Option Card, USB Output				PAXUSB00	**13D052**



No. 13C962



No. 13C969

red lion®

Large Display Panel Meters

- NEMA 4X/IP65 rated
- 24VDC sensor excitation
- 2.25"D

Power required; bracket mounting.

Item	Power Req.	Input Range	No. of Digits	2.25" HIGH LED Mfr. Model	2.25" HIGH LED Item No.		4" HIGH LED Mfr. Model	4" HIGH LED Item No.	
Electronic Counter	50 to 250VAC/22 to 250VDC	25,000	4	LD200400	**13C962**		LD400400	**13C968**	
Electronic Counter	50 to 250VAC/22 to 250VDC	25,000	6	LD200600	**13C963**		LD400600	**13C969**	
Electronic Counter Rate Meter	50 to 250VAC/22 to 250VDC	25,000	6	LD2006P0	**13C964**	*	LD4006P0	**13C970**	*
Timer	50 to 250VAC/22 to 250VDC	Programmable	6	LD2T06P0	**13C967**	*	LD4T06P0	**13C973**	*
DC Voltage/DC Current	50 to 250VAC/22 to 250VDC	0-200VDC/0-200mADC	5	LD2A05P0	**13C965**	*	LD4A05P0	**13C971**	*
Large Serial Slave Display	—	—	Up to 6	LD2SS6P0	**13C966**	*	LD4SS6P0	**13C972**	*

**** RS232/485 interface.***



Encoder
No. 3KTD2



E5 Series
No. 2RET4

EATON

Electronic Totalizers and Count Controls

Panel mounted. CE Certified. AC-supplied units are UL and C-UL Recognized.

E5 Series—IP65 front panel for use in moist environments. NPN or PNP inputs accept almost any 3-wire DC sensor. Totalizers have rear screw terminal connections. No. 2MRU6 accepts direct AC/DC count input.

Encoders—Quadrature output signal provides extremely accurate position indication, ensuring that count is correct regardless of which direction the shaft is rotating. ABEC 3 double-sealed ball bearings keep foreign matter out. Housing is sealed against dust, oil, vapor, and moisture.

Description	Input Voltage	No. of Digits	Max. Counts per Sec.	Output Rating		L	W	D	Mfr. Model	Item No.
E5 Series										
Counter, 1/16 DIN, 2 Presets	90 to 260VAC	6	55,000	3A @ 250VAC, 3A @ 110VDC	Multifunction Counters	1.89"	1.89"	3.58"	E5-648-C2421	**10D289**
Counter, 1/16 DIN, 2 Presets	10 to 30VDC	6	55,000	3A @ 250VAC, 3A @ 110VDC	Multifunction Counters	1.89"	1.89"	3.58"	E5-648-C2422	**10D290**
Counter, 1/32 DIN, Multifunction	10 to 30VDC	6	20,000	—	Multifunction Counters	1.89"	0.94"	2.32"	E5-424-E0402	**2RET8**
Counter, 1/8 DIN, Multifunction	90 to 260VAC	6	60,000	24VDC	Multifunction Counters	3.78"	1.89"	3.25"	E5-496-E0401	**2REU1**
Counter, 1/8 DIN, Multifunction	10 to 30VDC	6	60,000	—	Multifunction Counters	3.78"	1.89"	3.25"	E5-496-E0402	**2REU2**
Digital Panel Meter, Electronic	10-30VDC	5	—	—	Digital Panel Meters	1.89"	0.94"	2.32"	E5-324-E0402	**2RET9**
Totalizer, 1/32 DIN	4 to 30VDC	8	12,000	—	Multifunction Counters	0.94"	1.89"	1.88"	E5-024-C0400	**2MRU1**
Totalizer, 1/32 DIN	10 to 260VDC	8	12,000	—	Multifunction Counters	0.94"	1.89"	1.88"	E5-024-C0408	**2MRU6**
Totalizer, 1/32 DIN	4 to 30VDC	8	12,000	—	Multifunction Counters	1.89"	0.94"	1.88"	E5-024-C0410	**2RET4**
Totalizer, 1/32 DIN, Single Function	10 to 30VDC	6	20,000	—	Multifunction Counters	1.89"	0.94"	2.32"	E5-024-E0402	**2RET7**
Encoders										
12" Circum. Measuring Wheel, Aluminum w/Rubber Rim				—	Encoder Accessories	—	—	—	20154300	**10E074**
12" Circum. Measuring Wheel, Aluminum w/ Urethane Rim				—	Encoder Accessories	—	—	—	20144303	**3KTD4**
Aluminum Encoder Bracket				—	Encoder Accessories	—	—	—	40460402	**3KTD5**
Quadrature Encoder, 120 Pulses/Rev., 6000 rpm Max., 5 to 28VDC				—	Shaft Encoder Transducers	—	—	—	38151120	**3KTD3**
Quadrature Encoder, 60 Pulses/Rev., 6000 rpm Max., 5 to 28VDC				—	Shaft Encoder Transducers	—	—	—	38151060	**3KTD2**



No. 5FYG0

Preset Digital Counter and Counter/Tachometer

OMRON®

- Reset: External/manual/automatic
- Input signal: No voltage/voltage switchable
- PNP/NPN selectable input

These high-speed response, electronic preset units have 6 digits and 11 (No. 5FY60) or 12 (No. 5FYG1) operating modes. Enhanced features allow configurations as a 1-stage or 2-stage total, batch, or dual counter. (No. 5FYG1 can also be used as a tachometer.) Display color is programmable to alert change in output status. All parameters can be set via front membrane keys or DIP switches. Units provide 12VDC output for external sensors. Negative transmissive LCD and EEPROM memory backup, sustained and 1-shot outputs. Key protect function. 1/16 DIN panel mount (includes adapter). NEMA 4/IP66 front panel. 1 7/8" square x 4 9/16" long. UL Listed and CE Certified.

Item	Switch Output Rating	Input Voltage	Prescaling Range	Mfr. Model	Item No.
Digital Counter	SPDT, 3A 250VAC/30VDC Resistive	100 to 240VAC	0.001 to 9.999	H7CX-A-N AC100-240	**5FYG0**
Digital Counter/Tachometer	SPDT, 3A 250VAC/30VDC Resistive	24VAC/12 to 24VDC	0.001 to 9.999	H7CXAWD1NDC1224AC24	**5FYG1**

Dayton · ENM · Control Company · EATON

Counters


Hand-Held Hand Tally
No. 6X164


Bench Top Hand Tally
No. 1A189


Mechanically Operated, Lever Arm
No. 6X596


Mechanically Operated, Rotating
No. 2REU5


Electromechanically Operated
No. 20XG41


Electronically Operated
No. 2PAT7


Electronically Operated
No. 20XG38

Input Type	No. of Digits	Mounting	Max. Counts per Sec.	Reset Type	H	W	D	Brand	Mfr. Model	Item No.
Mechanical Tally Counter										
Hand Operated	4	Hand Held	—	Knob	1.75"	1.38"	—	Dayton	6X164	**6X164**
Hand Operated	4	Hand Held	—	Knob	1.81"	1.55"	1.81"	ENM	M45	**2PAU4**
Hand Operated	4	Bench Top	—	Knob	2.66"	1.14"	—	Dayton	1A189	**1A189**
Hand Operated	4	Bench Top	—	Knob	2.76"	1.55"	1.81"	ENM	M4501NF	**2PAU5**
Hand Operated	4	Bench Top	—	Knob/Side	2.76"	2.68"	2.36"	ENM	M4502	**5AAK7** *
Hand Operated	4	Bench Top	—	Knob/Side	2.76"	6.26"	2.36"	ENM	M4505	**5AAL0** †
Hand Operated	4	Hand Held	—	Knob	1¾"	1⅛"	—	Control Company	3125	**9PX59**
Digital Tally Counter										
Hand Operated	5	Hand Held	—	Push Button	1⅞"	½"	½"	Control Company	3129	**9GGF0**
Mechanical Counter										
Ratchet with Stop, Right Hand, Top Coming	5	Base	8.3	Knob	2.25"	2.75"	1.73"	ENM	M3CA50A	**2PAU1**
Ratchet with Stop, Right Hand, Top Coming	6	Base	8.3	None	2.25"	2.19"	1.69"	ENM	M2BA60A	**2PAV3**
Lever Arm, Right Hand, Top Coming	5	Base	16	Manual	1.44"	2.53"	1.25"	Dayton	6X157	**6X157**
Lever Arm, Right Hand, Top Coming	5	Base	16	Manual	1.44"	3.13"	1.38"	Dayton	6X158	**6X158**
Lever Arm, Right Hand, Top Coming	6	Base	16	Manual	1.81"	5.57"	2.15"	Dayton	6X596	**6X596**
Rotary Shaft, Clockwise, Front and Rear, Worm Drive	5	Base	13	Wing Nut	2.00"	3.69"	2.00"	Eaton	5-D-6-1-CL	**2REU5**
Rotary Shaft, Counter Clockwise, Front and Rear, Worm Drive	5	Base	13	Wing Nut	2.00"	3.69"	2.00"	Eaton	5-D-6-1-AC	**2REU6**
Rotary Shaft, Clockwise, Right Hand, Spur Drive	5	Base	13	Wing Nut	1.72"	3.80"	1.62"	Eaton	5-D-7-1-R-CL	**2REU7**
Rotary Shaft, Counter Clockwise, Right Hand, Spur Drive	5	Base	13	Wing Nut	1.72"	3.80"	1.62"	Eaton	5-D-7-1-R-AC	**2REU8**
Electromechanical Counter										
24VDC	6	Base	10	Nonresettable	0.90"	1.36"	2.18"	Dayton	32UJ97	**32UJ97**
115VAC	4	Panel	10	Push Button	1.80"	1.80"	2.99"	Dayton	6X594	**6X594**
115VAC	6	Panel	15	Push Button	1.97"	3.54"	3.39"	Dayton	32UJ95	**32UJ95**
115VAC	6	Base	10	Nonresettable	0.90"	1.36"	2.18"	Dayton	32UJ96	**32UJ96**
115VAC	6	Base	10	Nonresettable	2.38"	1.63"	2.37"	Dayton	32UJ98	**32UJ98**
24VDC	6	Panel	10	Nonresettable	1.00"	1.45"	1.40"	ENM	E6B65GM36	**20XG40**
24VDC	8	Base	25	Nonresettable	2.34"	1.50"	1.60"	ENM	E8B85GN	**20XG36**
24VAC	6	Base	10	Nonresettable	1.00"	1.45"	1.40"	ENM	E6B64GN	**2PAT1**
115VAC	5	Panel	10	Wheel	1.19"	2.75"	2.25"	ENM	P3B52A	**2PAW3**
115VAC	6	Panel	10	Nonresettable	1.00"	1.45"	1.40"	ENM	E6B62GM36	**20XG41**
115VAC	6	Base	10	Nonresettable	1.00"	1.45"	1.40"	ENM	E6B62GN	**2PAV7**
115VAC	8	Base	25	Nonresettable	2.34"	1.50"	1.60"	ENM	E8B82GN	**20XG37**
Electronic Counter										
4.5 to 28VDC	6	2-Hole Rectangular	50	Remote Signal	0.94"	1.42"	0.82"	ENM	C1121BB	**2PAT7**
4.5 to 28VDC	6	Rectangular- Snap-In	50	Remote Signal	2"	1.42"	0.82"	ENM	C1141BB	**2PAT8**
4.5 to 16VDC	6	PCB	50	Remote Signal	0.73"	1.30"	1.58"	ENM	C1101BB	**20XG35**
4.5 to 60VAC/DC (50/60 Hz)	6	Panel	50	None	2.81"	—	1.35"	ENM	C44B65B	**20XG38**
115 to 275VAC/DC (50/60 Hz)	6	Panel	50	None	2.81"	—	1.35"	ENM	C44B69B	**20XG39**
10 to 40VDC	6	Panel	20	Remote Signal	2.31"	—	1.51"	ENM	PC1210F0	**49Y067**
85 to 265VAC/90 to 360VDC	6	Panel	20	Remote Signal	2.31"	—	1.51"	ENM	PC1210G0	**49Y068**
265VAC	6	Panel	20	Remote Signal	2.31"	—	1.51"	ENM	T39FB48	**20XG42**
Hour Meter/Counter										
4.5 to 28VDC	6	Round	100	Electrical		—	2.00"	ENM	T39AC	**2PAX8**
85 to 265VAC/90 to 360VDC	6	Panel	20	Front Panel Push Button or Remote	2.58"	—	1.51"	ENM	T39FC48	**20JN05**

** 2-gang. † 5-gang.*

Electrically Operated Counters

Dayton · REDINGTON

- High-impact styrene housing
- White digits; black background

Sturdy bases enable fast, convenient mounting. No. 6X159 has a die-cast frame. No. 6X160 is a universal replacement, panel, or base mount. No. 1A124 is front or rear panel mount. CE Certified. Nos. 6X159 to 6X161, and 1A124 are UL Recognized; Nos. 6X159 to 6X161 are also CSA Certified.

Reset Type	Input Signal	No. of Digits	Mounting	Max. Counts per Sec.	Min. On/Off Pulse	Mfr. Model	Item No.
Dayton							
None Resettable	24VDC	6	Rear	10	50 / 50 msec.	1A788	**1A788**
None Resettable	24VAC	6	Rear	10	50 / 50 msec.	1A789	**1A789**
None Resettable	115VAC	6	Rear	10	50 / 50 msec.	1A188	**1A188**
Push Button	115VAC	6	Panel	10	50 / 50 msec.	1A124	**1A124**
Redington							
Knob	115VAC	6	Base	16.6	30 / 30 msec.	2-1006	**6X159**
Knob	115VAC	6	Panel	16.6	30 / 30 msec.	P2-1006-115AC	**6X160**
Key	115VAC	6	Panel	16.6	30 / 30 msec.	P32-1026-115AC	**6X161**


No. 1A188


No. 6X159


No. 6X160


No. 6X161

C48 Counters red lion

- ⅛ DIN
- 2-line x 6-digit display
- Digit height: 0.3" (7.62mm), main; 0.2" (5.08mm), secondary
- NEMA 4X/IP65 bezel

Units include bidirectional counting, up/down control, programmable user inputs, and front-panel function key. Status indicators for outputs.

Max. Counts per Sec.	Power Req.	Output	2 LINE LCD Mfr. Model	2 LINE LCD Item No.	2 LINE BACKLIT LCD Mfr. Model	2 LINE BACKLIT LCD Item No.
11,500	85 to 250VAC	(2) Form A Relay	C48CD002	**12N119**	C48CD102	**12N121**
11,500	85 to 250VAC	(2) Form A Relay	—	—	C48CD107	**12N122** *
11,500	85 to 250VAC	(2) NPN OC	C48CD005	**12N120** *	—	—
11,800	85 to 250VAC	(2) Form A Relay, 1-NPN	—	—	C48CB108	**12N118** *
11,800	85 to 250VAC	(2) Form A Relay, 1-NPN	—	—	C48CB103	**12N116**
11,800	85 to 250VAC	(2) Form A Relay, 1-PNP	—	—	C48CB104	**12N117**
12,400	18 to 36VDC/24VAC	(1) Form A Relay, 1-NPN	C48CS013	**12N125**	C48CS113	**12N129**
12,400	18 to 36VDC/24VAC	(1) Form A Relay, 1-PNP	C48CS014	**12N126**	C48CS114	**12N130**
12,400	85 to 250VAC	(1) Form A Relay, 1-NPN	C48CS003	**12N123**	C48CS103	**12N127**
12,400	85 to 250VAC	(1) Form A Relay, 1-PNP	C48CS004	**12N124**	C48CS104	**12N128**

** Includes RS485 serial communication interface.*


Counter
No. 12N116



No. 3AE12



No. 3AB98



No. 2PPW6



No. 4ETE7



No. 2PPU8



No. 2PPW1

Description	No. of Digits	Dry Contact Item No.	3 to 30VDC Item No.	10 to 300VDC, 20 to 300VAC Item No.
LCD Electronic Counters, 63 Series, Panel Cutout: 1.79W x 0.89"H, 2.0W x 1.10"H Flange				
Counter, Dual Range, 40/500 Hz, Resettable	8	**2PPW3**	**2PPW4**	**2PPW5**
LCD Hour Meters, 63 Series, Panel Cutout: 1.79W x 0.89"H, 2.0W x 1.10"H Flange				
Hour Meter, Hours and Tenths, Nonresettable	8	**2PPW6**	**2PPX7**	**2PPW7**
Hour Meter, Hours and Tenths, Remote Reset	8	**4XKH9**	**4XKJ1**	—

REDINGTON
Counters, Hour Meters, Controllers, Indicators.

Redington Hour Meters and Counters

Description	No. of Digits	Bezel Face Size	10 to 80VDC Item No.	120 to 240VAC Item No.
Electromechanical Hour Meters, 722/732 Series, 0.93H x 1.43W x 2.17"D				
2-Hole Rectangular	6	2.05" x 1.03"	**3AE15**	**3AB98**
Flush Rectangular	6	1.60" x 1.10"	**3AE13**	**3AB99**
Flush Round	6	2.24" dia.	**3AE14**	**3AE10**
3-Hole Round	6	2.80" dia.	**3AE12**	**3AE11**
Round Cup Mount S.S. Bezel	6	2.50" dia.	**2PPU5**	—
Square Panel Mount	6	1.89" x 1.89"	**2PPU4**	**2PPU3**
Round Stirrup Mount S.S. Bezel	6	2.50" dia.	**2PPU6**	—

For Use With	Item No.
Gaskets	
2PPX7, 4XKH9, 4XKJ1, 2PPW6, 2PPW7, 2PPW3, 2PPW4, 2PPW5, 2PPX2, 2PPX3, 2PPX4	**4ETE7**
2PPU8, 2PPV6	**4ETF3**
3AE11, 3AE12	**4ETF5**
3AB99, 3AE13	**4ETF6**
3AE15, 3AB98	**4ETF8**

Input Type	No. of Digits	Mfr. Model	2-Hole Rectangular 1.10" Flange Item No.	3-Hole Round 2.87" Flange Item No.	Mini Flush Rectangular 1.60" Flange Item No.	SAE Flush Round 2.21" Flange Item No.	Snap In 1.10" Flange Item No.
LCD Hour Meters, 3410 Series, 0.95H x 1.45W x 0.75"D, ¼" Spade Terminals							
10 to 300 VDC or 20 to 300 VAC	8	3410	**2PPV5**	**2PPV6**	**2PPV7**	**2PPV8**	**2PPW1**
Electronic Counters, 3400 Series, 0.93H x 1.3W x 0.75"D, ¼" Spade Terminals							
10 to 300VDC, 20 to 300VAC (50/60 Hz)	8	3400	**2PPU7**	**2PPU8**	—	—	—



No. 2PAN6



No. 2PAT3



No. 2PAN9



No. 2PAR5



No. 2PAR7



No. 2PAT2



No. 20JN03



No. 2PAZ6



No. 2PAU9



No. 2PAX6

ENM

Hour Meters

Most display hours and 10ths. No. 2PAT2 displays hours and minutes. Nos. 2PAV1 and 2PAZ6 display hours and 10ths. Nos. 2PAT3 and 2PAT4 display hours and 100ths.

Input Type	Operating Voltage	Reset Type	Bezel Face Size	Bezel Face Type	No. of Digits	Mounting Method	Fits Panel Cut Out	Mfr. Model	Item No.
Electromechanical									
Electrical	10 to 80VDC	Non Resettable	2.75" dia.	Flange Mount	6	3-Screw	2.00" dia.	T40B45	**2PAN7**
Electrical	10 to 80VDC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T40A45	**2PAN6**
Electrical	10 to 80VDC	Non Resettable	1.77" x 1.25"	Flange Mount	6	Retainer	1.45" x 0.95"	T41D45	**2PAR3**
Electrical	10 to 80VDC	Non Resettable	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T41E45	**2PAR4**
Electrical	10 to 80VDC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T40A4507	**2PAR8**
Electrical	24VAC	—	2.80" dia.	Flange Mount	6	3-Screw	2.00" dia.	T50B4	**2PAY7**
Electrical	24VAC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T50A4	**2PAY5**
Electrical	24VAC	—	1.77" x 1.25"	Flush Mount	6	Clip	1.45" x 0.95"	T51D4	**2PAY9**
Electrical	24VAC	Non Resettable	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T51E4	**2PAZ2**
Electrical	24VAC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T50A479	**2PAZ4**
Electrical	115/230VAC	Non Resettable	2.80" dia.	Flange Mount	6	3-Screw	2.00" dia.	T50B52	**2PAR2**
Electrical	120 to 240VAC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T50A52	**2PAR1**
Electrical	120VAC	Non Resettable	2.70" dia.	Flange Mount	6	3-Screw	2.22" dia.	T55B2A	**2PAT3**
Electrical	120VAC	Manual	2.70" dia.	Flange Mount	6	3-Screw	2.22" dia.	T55A2A	**2PAT4**
Electrical	120VAC	Manual	3.50" dia.	Flange Mount	6	3-Screw	2.22" dia.	T55A2B	**6LVT2**
Electrical	240VAC	Non Resettable	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T50A5279	**2PAZ5**
Electrical	240VAC	Remote	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T51E52	**2PAN8**
Electrical	240VAC	Remote	1.77" x 1.25"	Flush Mount	6	Clip	1.45" x 0.95"	T51D52	**2PAN9**
LCD									
Electrical	5 to 28VDC	Non Resettable	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T1121BB	**2PAR5**
Electrical	5 to 28VDC	Non Resettable	1.72" x 1.22"	Flush Mount	6	Retainer	1.45" x 0.95"	T1141BB	**2PAR6**
Electrical	5 to 28VDC	Non Resettable	2.20" dia.	Flush Mount	6	Retainer	2.00" dia.	T1161BB	**2PAR7**
Electrical	10 to 240VAC, 5 to 110VDC	Front Panel Push Button or Remote	1.88" x 0.94"	Flush Mount	7	Retainer	1.77" x 0.89"	L6C	**2PAT2**
Electrical	120VAC	Non Resettable	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T1120EB	**2PAW9**
Electrical	120VAC	Non Resettable	1.72" x 1.22"	Flush Mount	6	Retainer	1.45" x 0.95"	T1140EB	**2PAX2**
Electrical	120VAC	Non Resettable	2.20" dia.	Flush Mount	6	Retainer	2.00" dia.	T1160EB	**2PAX4**
Electrical	240VAC	Non Resettable	2.20" dia.	Flush Mount	6	Retainer	2.00" dia.	T1160FB	**2PAX5**
Electrical	—	Non Resettable	2.80" dia.	Flange Mount	6	3-Screw	2.00" dia.	TB44B69A	**2PJN03**
Electrical	—	Non Resettable	2.80" dia.	Flange Mount	6	3-Screw	2.00" dia.	TB44B65A	**2PJN04**
Inductive	—	Manual	2.89" x 1.82"	Flange Mount	5	2-Screw		MT101R	**2PAZ6**
Vibration	—	Remote	2.13" x 1.25"	Flange Mount	6	2-Screw	1.45" x 0.95"	T54C1	**2PAU8**
Vibration	—	Non Resettable	2.13" x 1.40"	Panel Mount	6	2-Screw	1.45" x 0.95"	T54D1	**2PAU9**
LCD, Dual Display									
Electrical	8 to 32VDC	Remote	2.33" dia.	Flush Mount	6	Retainer	2.00" dia.	T39AA	**2PAX6**
LCD, Hourmeter/Tachometer									
Inductive	—	Non Resettable	2.13" x 1.40"	Surface Mount	5	2-Screw		PT15E2	**2PAV1**

Temperature Controllers

Designed to monitor and control heating and/or cooling process applications. Thermocouple input, no calibration required. Hardware included for panel mounting.

E5C2 Series—Manual dial setting; Type J thermocouple input. 8-pin octal relay socket mountable; order No. 5X852 on page 216.

E5CS Series—Easy setting through internal DIP and rotary switches. On-demand auto-tune. Multiple input. Deviation indicator for easy monitoring. 8-mode alarm output and sensor error detection. Input shift function adjusts display to reflect known sensor offsets. CE Certified.

OMRON®



No. 4A482



No. 1BEF8

DIN Size	Input Voltage	Switch Function	Output	Control Mode*	D	Mfr. Model	Item No.
E5C2 Series							
1/16	100 to 240VAC	SPDT	(1) 3A Relay	On/Off	4.00"	E5C2R20JWAC10024032392	**4A481**
1/16	100 to 240VAC	SPDT	(1) 3A Relay	PD	4.00"	E5C2R40JWAC10024032392	**4A482**
E5CS Series							
1/16	100 to 240VAC	SPST NO	(1) Relay	On/Off or PID	3.31"	E5CSVR1TF AC100-240	**1BEF8**
1/16	100 to 240VAC	SPST NO	12VDC	On/Off or PID	3.31"	E5CSVQ1TF AC100-240	**1BEH2**

**** PID=Proportional-integral-derivative. PD=Proportional-derivative.***

Analog Temperature Controllers

Proportioning controls feature dial/potentiometer setpoint. 5A output relay. 20-sec. cycle time. Temp. range: 50° to 850°F. UL Recognized, CSA and CE Certified.

TEMPCO



Analog



Analog w/ Digital Display

DIN Size	Description/ Special Features	Input Voltage	Output	D	J TYPE Mfr. Model	J TYPE Item No.	K TYPE Mfr. Model	K TYPE Item No.
1/16	Dial Setpoint	100 to 130VAC	(1) 5A Relay	3.75"	TEC17112	**3FXJ3**	TEC17126	**3FXJ4**
1/4	Dial Setpoint, Deviation Meter Display	120/240VAC	(1) 5A Relay	2.56"	TEC57201	**3FXJ5**	TEC57203	**3FXJ6**
1/4	Dial Setpoint, Single Red LED Digital Display	90 to 264VAC	(1) 5A Relay	2.56"	TEC57401	**3FXJ7**	TEC57403	**3FXJ8**

TEMPCO

Temperature Control Boxes

Include 6-ft. cord. All components are UL Listed or Recognized, CSA and CE Certified.

PCT Series—Feature pilot light and 15A straight-blade heater receptacle. For indoor use. Analog boxes have blue metal housing, mounting slots, and 4° typical hysteresis. Digital boxes have plastic housing, TEC-220 electronic temp. controller, and red illuminated On/Off rocker switch. Nos. 5FYL4 to 5FYL7 have Invensys-type mechanical thermostat with 4" bulb and 48" capillary.

PCM Series—NEMA 12 enclosure. Feature TEC-9100 electronic temp. control. Nos. 5FYN6 to 5FYN9 have 20A straight-blade heater receptacle and standard thermocouple jacks. Nos. 5FYP0 to 5FYP3 have internal blocks and can be used on single or 3 phase.



Analog Control Box



Digital Control Box

Control Mode	Amps	Temp. Range	Sensor Type	Output	Input Voltage	Mfr. Model	Item No.	Input Voltage	Mfr. Model	Item No.
Analog										
On/Off	15	60° to 250°F	Bulb	—	120VAC	PCT10001	**5FYL4**	240VAC	PCT10003	**5FYL6**
On/Off	15	150° to 550°F	Bulb	—	120VAC	PCT10002	**5FYL5**	240VAC	PCT10004	**5FYL7**
On/Off	15	32° to 1000°F	J	—	120VAC	PCT20001	**5FYL8**	240VAC	PCT20003	**5FYN0**
On/Off	15	32° to 1000°F	K	—	120VAC	PCT20002	**5FYL9**	240VAC	PCT20004	**5FYN1**
Digital										
PID	15	0° to 1200°F	J	(1) Relay	120VAC	PCT30001	**5FYN2**	240VAC	PCT30002	**5FYN3**
PID	15	0° to 2400°F	K	(1) Relay	120VAC	PCT30003	**5FYN4**	240VAC	PCT30004	**5FYN5**
PID	16	0° to 1200°F	J	(1) Relay	120VAC	PCM10001	**5FYN6**	240VAC	PCM10002	**5FYN7**
PID	16	0° to 2400°F	K	(1) Relay	120VAC	PCM10003	**5FYN8**	240VAC	PCM10004	**5FYN9**
PID	24	Dependent on Sensor Type	Universal	Contactor	240VAC	PCM10005	**5FYP0**	480VAC	PCM10006	**5FYP1**
PID	48	Dependent on Sensor Type	Universal	Contactor	240VAC	PCM10007	**5FYP2**	480VAC	PCM10008	**5FYP3**

TEMPCO

Digital Temperature Controllers

Microcontroller-based controls with autotuning fuzzy logic PID are designed for industrial and commercial heating and cooling applications. Universal thermocouple or RTD programmable. 90 to 250VAC power input. NEMA 4X front.



Single Display



Dual Display

DIN Size	Output	D	Std.	Mfr. Model	Item No.
Single Red LED Digital Display					
1/32	(1) 4 to 20mA and (1) 2A Relay	4.37"	UL,CSA,CE	TEC03030	**3FXK2**
1/32	(1) Solid State Relay Drive-5VDC and (1) 2A Relay	4.37"	UL,CSA,CE	TEC03013	**3FXK1**
1/32	(2) 2A Relay	4.37"	UL,CSA,CE	TEC03002	**3FXJ9**
1/16	(1) 4 to 20mA and (1) 2A Relay	3.75"	UL,CSA,CE	TEC15023	**3FXK5**
1/16	(1) Solid State Relay Drive-5VDC and (1) 2A Relay	3.75"	UL,CSA,CE	TEC15011	**3FXK4**
1/16	(2) 2A Relay	3.75"	UL,CSA,CE	TEC15002	**3FXK3**
High Limit, Single Red LED Digital Display					
1/16	(1) 2A Relay	3.75"	UL,CSA,CE,FM	TEC16001	**3FXK6**
Dual Red LED Digital Display					
1/16	(1) 2A Relay	4.96"	UL,CSA,CE	TEC14044	**3FXK7**
1/16	(1) 4 to 20mA	4.96"	UL,CSA,CE	TEC14092	**3FXK9**
1/16	(1) Solid State Relay Drive-5VDC	4.96"	UL,CSA,CE	TEC14040	**3FXK8**
1/16	(2) 2A Relay	4.96"	UL, CSA, CE	TEC18002	**5FYK7**
1/8	(1) 2A Relay	3.12"	UL,CSA,CE	TEC34034	**3FXL1**
1/8	(1) 4 to 20mA	3.12"	UL, CSA, CE	TEC34018	**5FYJ4**
1/8	(1) 4 to 20mA and (1) 2A Relay	3.12"	UL, CSA, CE	TEC34026	**5FYJ5**
1/8	(1) Solid State Relay Drive-5VDC	3.12"	UL, CSA, CE	TEC34016	**5FYJ3**
1/8	(1) Solid State Relay Drive-5VDC and (1) 2A Relay	3.12"	UL, CSA, CE	TEC34015	**5FYJ2**
1/8	(2) 2A Relay	3.12"	UL,CSA,CE	TEC34025	**3FXL2**
1/4	(1) 2A Relay	2.56"	UL,CSA,CE	TEC56025	**3FXL3**
1/4	(1) 4 to 20mA	2.56"	UL, CSA, CE	TEC56019	**5FYJ7**
1/4	(1) Solid State Relay Drive-5VDC	2.56"	UL, CSA, CE	TEC56013	**5FYJ6**

red lion®

PXU Series Temperature Controllers

- Programmable
- 2 alarms
- 100 to 240VAC or 24VDC

Accept a wide variety of thermocouple and RTD sensor inputs to meet varying application requirements. Designed for simultaneous viewing of temperature/process, and setpoint values. Features on demand auto-tuning for easy set up and provides 2 control outputs, which can be individually configured for reverse or direct applications using front panel push-button or Crimson® software. Large dual line, 4-digit displays. IP65 ingress protection. UL Listed, 61010-1 approved.



No. 45PD57



No. 45PD58

DIN Size	Switch Function	D	Mfr. Model	100 to 240VAC Item No.	24VDC Item No.
1/16	SPST NO	3.14"	PXU100	**45PD47**	**45PD49**
1/16	(2) SPST NO	3.14"	PXU11A	**45PD51**	**45PD54**
1/16	NPN	3.14"	PXU200	**45PD57**	**45PD59**
1/16	NPN/SPST	3.14"	PXU21A	**45PD62**	**45PD64**
1/16	4 to 20mA	3.14"	PXU300	**45PD66**	**45PD67**
1/16	SPST NO, 4 to 20mA	3.14"	PXU31A	**45PD69**	**45PD72**
1/8	NPN	2.82"	PXU200	**45PD58**	**45PD60**
1/8	(2) SPST NO	2.82"	PXU11A	**45PD52**	**45PD55**
1/8	NPN/SPST	2.82"	PXU21A	**45PD63**	**45PD65**
1/8	SPST NO	2.82"	PXU100	**45PD48**	**45PD50**
1/8	SPST NO, 4 to 20mA	2.82"	PXU31A	**45PD70**	**45PD73**
1/4	(2) SPST NO	2.82"	PXU11A	**45PD53**	**45PD56**
1/4	SPST NO, 4 to 20mA	2.82"	PXU31A	**45PD71**	**45PD74**



Bendable Thermocouple No. 5ZY12



Standard Plug No. 5ZY31



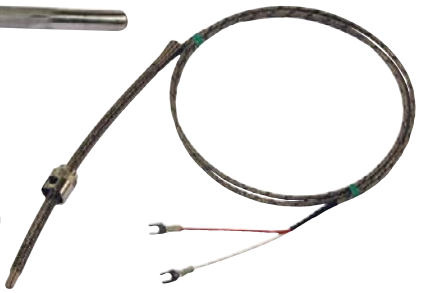
Heavy-Duty Thermocouple No. 5ZY26



Thermocouple Wire No. 3AGF4



Standard Jack No. 5ZY34



Adjustable Depth Thermocouple No. 5ZY15

Thermocouples, RTDs, Lead Wire, and Accessories

TEMPCO SUPPLIER DIVERSITY

THERMOCOUPLES

Bendable, Mineral Insulated

Plug and jack connectors allow probe to measure temperature in hard-to-reach areas.

Heavy-Duty

Rugged, pipe-protected thermocouple element is for use in heavier industrial applications. Easy field wiring of enclosed terminals found inside protected head.

Adjustable Depth

Thermocouples adjust to immersion well depth. For extruders and platens. Spade terminals and adjustable bayonet cap.

Lug Type

¼"-hole thermocouples are held in place by a bolt to measure surface temperatures.

RTD

Resistance temperature detectors (RTDs) offer greater repeatability and interchangeability than thermocouples or thermistors over the standard temperature scale.

Thermocouple Wire

Senses temperature of an object and feeds that information to a temperature control device that regulates power to the heating source or to a measuring instrument or temperature monitoring device.

Description	Temp. Limit (°F)	Length	Item No.	Length	Item No.	Length	Item No.	Length	Item No.
Thermocouples, Mineral Insulated, Bendable									
⅛" OD Probe Mini Plug/Jack, Type J	1300	—	—	12" Probe	**3AEY1**	18" Probe	**3AEY2**	24" Probe	**3AEY3**
⅛" OD Probe Mini Plug/Jack, Type K	2100	—	—	12" Probe	**3AEY4**	18" Probe	**3AEY5**	24" Probe	**3AEY6**
3/16" OD Probe, Plug/Jack, Type J	1300	—	—	12" Probe	**5ZY10**	18" Probe	**5ZY11**	24" Probe	**3AEX8**
3/16" OD Probe, Plug/Jack, Type K	2100	—	—	12" Probe	**5ZY12**	18" Probe	**5ZY13**	24" Probe	**3AEX9**
Thermocouples, Mineral Insulated w/AL Connection Head									
¼" OD, ½" NPT, 316 SS, Type J	1400	6" Probe	**3AEY7**	12" Probe	**3AEY8**	18" Probe	**3AEY9**	24" Probe	**3AEZ1**
¼" OD, ½" NPT, Alloy 600, Type K	2100	6" Probe	**3AEZ2**	12" Probe	**3AEZ3**	18" Probe	**3AEZ4**	24" Probe	**3AEZ5**
Thermocouples, Heavy-Duty Construction									
½" Pipe, 304 SS Sheath, Type J	1300	—	—	12" Probe	**5ZY22**	18" Probe	**5ZY23**	—	—
½" Pipe, 601 Inconel Sheath, Type K	2100	—	—	—	—	18" Probe	**5ZY26**	24" Probe	**5ZY27**
½" Pipe, Carbon Steel Sheath, Type J	1200	—	—	12" Probe	**5ZY24**	18" Probe	**5ZY25**	—	—
Thermocouples, Adjustable Depth, 3/16" OD									
Bayonet, Spring, SS Overbraid, Type J	900	4' Leads	**5ZY15**	6' Leads	**5ZY16**	8" Probe	**5ZY17**	10' Leads	**5ZY18**
Compression Fitting, SS Armor, Type J	900	—	—	6' Leads	**3AAA5**	8" Probe	**3AAA6**	10' Leads	**3AAA7**
Thermocouples, Lug Type, ¼" Hole									
SS Overbraid, Spade Terminals, Type J	900	—	—	—	—	12' Leads	**3AEZ7**	—	—
SS Overbraid, Spade Terminals, Type K	900	4' Leads	**3AEZ6**	—	—	12' Leads	**3AEZ8**	—	—
Thermocouples, General Purpose									
Tube and Wire, 3/16" OD Probe, Type J	900	—	—	—	—	12" Probe, 6' Leads	**3AAA1**	—	—
Tube and Wire, 3/16" OD Probe, Type K	900	3" Probe, 3' Leads	**3AAA2**	6" Probe, 6' Leads	**3AAA3**	12" Probe, 6' Leads	**3AAA4**	—	—
RTD, Std. Tube, 316 SS									
¼" OD, 3-Wire, 100Ω	0° to 392°	—	—	6" Probe, 6' Leads	**5ZY14**	—	—	—	—
3/16" OD, 2-Wire, 1000Ω	0° to 900°	—	—	6" Probe, 6' Leads	**3FWX4**	—	—	—	—
3/16" OD, 3-Wire, 100Ω	0° to 392°	—	—	—	—	12" Probe, 8' Leads	**3FWX3**	—	—
Plug w/Jack, 3/16" OD, 100Ω	0° to 392°	12" Probe	**3FWX8**	—	—	24" Probe	**3FWY1**	—	—
Thermocouple Wire, Fiberglass Jacket									
20-Ga. Solid	900°F	—	—	Type J, 250'	**3HWL5**	—	—	Type K, 250'	**3HWL2**
20-Ga. Stranded	900°F	Type J, 100'	**3HWL6**	Type J, 250'	**3HWL8**	Type K, 100'	**3HWL7**	Type K, 250'	**3HWL9**
24-Ga. Solid	900°F	Type J, 100'	**3AGF1**	—	—	Type K, 100'	**3AGF3**	—	—
24-Ga. Stranded	900°F	—	—	—	—	Type K, 100'	**3AGF4**	—	—
Thermocouple Extension Wire, PVC jacket									
20-Ga. Solid	221°F	—	—	—	—	—	—	Type KX, 250'	**3HWL3**
Plugs/Jacks									
Miniature Bezel Panel Jack	—	J Type, 2-Pin	**3FXR4**	K Type, 2-Pin	**3FXR5**	—	—	—	—
Miniature Jack	—	J Type, 2-Pin	**3FXN5**	K Type, 2-Pin	**3FXN6**	—	—	—	—
Miniature Plug	—	J Type, 2-Pin	**3FXN3**	K Type, 2-Pin	**3FXN4**	—	—	—	—
Standard Bezel Panel Jack	—	J Type, 2-Pin	**3FXR1**	K Type, 2-Pin	**3FXR2**	—	—	—	—
Standard Jack	—	J Type, 2-Pin	**5ZY33**	K Type, 2-Pin	**5ZY34**	—	—	—	—
Standard Plug	—	J Type, 2-Pin	**5ZY31**	K Type, 2-Pin	**5ZY32**	—	—	—	—
Bayonet Adapters									
⅛-27 NPT	—	⅞" Length	**5ZY30**	1⅜" Length	**3AGA8**	1½" Length	**3AGA9**	2" Length	**3FXN1**
Compression Fittings ⅛" (M)NPT									
Adjustable Brass, For Use With:	—	⅛" OD Probes	**3FXP7**	3/16" OD Probes	**3FXP8**	¼" OD Probes	**3FXP9**	—	—
Non-Adjustable Brass, For Use With:	—	⅛" OD Probes	**3FXP5**	3/16" OD Probes	**5ZY28**	¼" OD Probes	**3FXP6**	—	—
Cable Clamps									
SS Construction, For Use With:	—	Standard Plugs/ Jacks Ea.	**5ZY29**	—	—	—	—	Grommets-Mini 2-Pin, Pk/10	**3FXP4**

TEMPCO

Types MG, TGGT, and PTFE High-Temp. Lead Wires

For commercial or industrial applications, heaters, furnaces, kilns, and food service equipment.

TYPE MG

- Rated for 600V

Mica glass composite insulation over stranded nickel-clad copper conductors. Covered by fiberglass overbraid with high-temp. finish for superior insulation and dielectric strength. UL 5335/5107, CSA AWM Class 1 Group A/B FT-1.

TYPE PTFE

- Rated for 300V

PTFE insulation is extruded over silver-plated copper conductors for high-temp. performance. UL 1180, CSA AWM Class 1 Group A/B FT-1.

TYPE TGGT

- Rated for 600V

Insulated with PTFE tape over stranded nickel-plated copper conductors, then 2 layers of fiberglass insulation. Covered by PTFE-treated fiberglass overbraid for safe, high-temp. applications. UL 5256, CSA AWM Class 1 Group A/B.

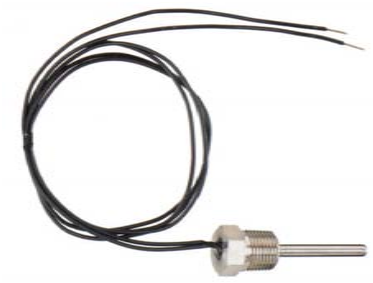


Type MG
No. 2KE36

Spool Length	Jacket Color	Max. Temp. (°F)	22 AWG Item No.	20 AWG Item No.	18 AWG Item No.	16 AWG Item No.	14 AWG Item No.	12 AWG Item No.	10 AWG Item No.
MG									
100 ft.	Natural	842°	—	—	2KE36	2KE37	2KE38	2KE39	2KE40
250 ft.	Natural	842°	—	—	3GRK2	3GRK3	3GRK4	3GRK5	3GRK6
PTFE									
100 ft.	Black	392°	3GRN8	3GRN7	3GRN6	3GRN5	3GRN4	—	—
100 ft.	Red	392°	3GRL7	3GRL6	3GRL5	3GRL4	3GRL3	—	—
100 ft.	White	392°	3GRN3	3GRN2	3GRN1	3GRL9	3GRL8	—	—
250 ft.	Black	392°	3GRR5	3GRR4	3GRR3	3GRR2	3GRR1	—	—
250 ft.	Red	392°	3GRP4	3GRP3	3GRP2	3GRP1	3GRN9	—	—
250 ft.	White	392°	3GRP9	3GRP8	3GRP7	3GRP6	3GRP5	—	—
TGGT									
100 ft.	Natural	482°	—	—	2KE41	2KE42	2KE43	2KE44	2KE45
250 ft.	Natural	482°	—	—	3GRK7	3GRK8	3GRK9	3GRL1	3GRL2



No. 41A062



No. 41A072



No. 41A075

Honeywell

Temperature Probes

Maximize your component and product performance for many applications. These probes provide enhanced reliability, repeatability, precision, and responsiveness. Feature wide operating temperature.

Temp. Range (F)	Probe Temp. Measuring Element	Probe Connection	Probe Contact Material	Mfr. Model	Item No.
Immersion Temperature Probe					
-40° to 302°	2000 Ohm PTC Thermistor	Mini	Brass	ES120-0026	**41A060**
-40° to 302°	2000 Ohm NTC Thermistor	Mini	Brass	ES120-0030	**41A062**
-76° to 257°	100 Ohm NTC Thermistor	Bare Wire	300 Stainless Steel	590-53AD33-104	**41A072**
Surface Temperature Probe					
-40° to 302°	10K Ohm NTC Thermistor	Spade	Stainless Steel	535-34AB03-103	**41A075**

Dayton

Thermocouples and Accessories

- Type J: 32° to 1380°F
- Type K: -325° to 2280°F

These MgO-insulated thermocouples are made using the highest purity MgO for temperatures up to 2300°F (1260°C). Thermo elements are all ANSI special limits of error to give your measurements the best possible results.



No. 36GL12



No. 36GK84



No. 36GL03

Probe Length	Plug or Connector Type	TYPE J 304 Stainless Steel Item No.	TYPE K Inconel 600 Item No.
0.125 O.D., Grounded			
6.0"	Mini Plug	36GL10	36GL14
6.0"	Standard Plug	36GL12	36GL16
12.0"	Mini Plug	36GK68	36GK71
18.0"	Mini Plug	36GK69	36GK72
24.0"	Mini Plug	36GK70	36GK73
0.125 O.D., Ungrounded			
6.0"	Mini Plug	36GL09	36GL13
6.0"	Standard Plug	36GL11	36GL15
12.0"	Mini Plug	36GK74	36GK77
18.0"	Mini Plug	36GK75	36GK78
24.0"	Mini Plug	36GK76	36GK79
0.188 O.D., Grounded			
12.0"	Standard Plug	36GK92	36GK94
18.0"	Standard Plug	36GK93	36GK95
24.0"	Standard Plug	36GL05	36GL06
0.188 O.D., Ungrounded			
12.0"	Standard Plug	36GK96	36GK98
18.0"	Standard Plug	36GK97	36GK99
24.0"	Standard Plug	36GL07	36GL08

Plug or Connector Type	Characteristics	TYPE J Black Item No.	TYPE K Yellow Item No.
Thermocouple Jack			
Miniature	Flat Pins	36GK87	36GK90
Miniature	Flat Pins, No Logo	36GK88	36GK91
Miniature	Flat Pins, Single Screw Design	36GK86	36GK89
Standard	2 Pin	36GL03	36GL04
Thermocouple Plug			
Miniature	Flat Pins	36GK81	36GK84
Miniature	Flat Pins, No Logo	36GK82	36GK85
Miniature	Flat Pins, Single Screw Design	36GK80	36GK83
Standard	2 Pin	36GL01	36GL02



No. 5JC01



No. 5JC04



No. 22HU69



No. 19YY54



No. 3XJV5



No. 6KCK5

Chemtronics circuitworks TECHSPRAY

Soldering Accessories

Description	Mfr. Model	Item No.	Pkg. Qty.
Chemtronics			
Circuitworks® Silicone Heat Sink Compound, 6.5g Syringe Dispenser	CW7100	**1UYE2**	1
Circuitworks Overcoat Pen, 4.9g	CW3300G	**5JC01**	1
Ultrajet® 70 Duster, 10 oz. Aerosol	ES1015	**5JC04**	1
Foamtips™ Cleaning Swabs, 5.1"L	CF2050	**1UYE1**	50
Techspray			
Diagnostic Freezer, 100% Pure HFC-134a	1672-10S	**22HU69**	1
Ecoline Blue Shower Cleaner/Degreaser, 10 oz.	1620-10S	**19YY54**	1
G3 Blue Shower Cleaner/Degreaser, 16 oz.	1630-16S	**22HU91**	1
70% Isopropyl Alcohol Cleaning Wipes, Pop-Up Tub	1608-100DSP	**22HU58**	1
70% Isopropyl Alcohol Cleaning Wipes, Flip-Top Tub	1608-100FL	**22HU54**	100
70% Isopropyl Alcohol Cleaning Wipes, Refill	1608-100R	**22HU55**	100
70% Isopropyl Alcohol, 1 gal.	1608-G4	**22HU53**	1
99.8% Isopropyl Alcohol, Individually Wrapped Packets	1610-50PK	**3XJV6**	1
99.8% Isopropyl Alcohol, Wipes, Pop-Up Tub	1610-100DSP	**3XJV5**	1
99.8% Isopropyl Alcohol Cleaning Wipes, Flip-Top Tub	1610-100FL	**22HU56**	100
99.8% Isopropyl Alcohol Cleaning Wipes, Refill	1610-100R	**22HU57**	100
99.8% Isopropyl Alcohol, 1 gal.	1610-G4	**6KCK5**	1
99.8% Isopropyl Alcohol, 5 gal.	1610-5G	**19YY52**	1
Diagnostic Freezer, 15 oz.	1672-15S	**22HU70**	1
Conformal Coating, PCB Coating	2108-12S	**22HU90**	1
Silicone-Free Heat Sink Compound, 4 oz.	1978-DP	**19YY66**	1

ITW Chemtronics
American Beauty SOLDER-WICK Desoldering Braid



No. 19YP77

Desoldering Braids

Used to wick solder away from circuit boards. Antistatic braids are packaged in a ESD-safe, static dissipative bobbins.

No-clean flux type braid is nonionic. Nonconductive residue does not have to be cleaned off the board.



No. 5HZ97

Flux Type	Braid Number	Color	W	L	Brand	Mfr. Model	Item No.	Pkg. Qty.
No-Clean	—	Black/Red	3/32"	8 ft.	American Beauty	485-8C	**19YP77**	1
Rosin	3	Copper	—	10 ft.	Chemtronics	80-4-10	**24JY90**	1
Rosin	3	Green	0.075"	5 ft.	Soder-Wick	80-3-5	**5HZ97**	1
Rosin	3	Green	0.075"	5 ft.	American Beauty	484-3	**49W641**	25
Rosin	4	Blue	0.098"	5 ft.	American Beauty	484-4	**49W642**	25



No. 19YP78



No. 3W887



No. 23Z363

American Beauty Weller JONARD TOOLS

Desoldering Hand Pumps

Remove and clean unwanted solder. One-handed operation. Pumps are self cleaning.

Item	Characteristics	L	Brand	Mfr. Model	Item No.
Desoldering Bulb	—	3½"	American Beauty	SS-8	**19YP78**
Desoldering Pump	ESD Safe	11.25"	Weller	7874B	**3W887**
High Vacuum Desoldering Pump	PTFE Tip	13"	Ok Industries	DP-100	**23Z363**
High Vacuum Desoldering Pump	PTFE Tip, ESD Safe	13"	Ok Industries	DP-200	**23Z364**

Chemtronics TECHSPRAY
PLATO Weller



No. 5JC02

Flux and Flux Removers

FLUX PENS

No. 5JC02 is an innovative, halide-free organic no-clean flux that meets Bellcore TR-NWT-000078 and IPC-SF-818 for surface insulation resistance. No. 5JC03 is Type R flux that meets MIL-F-14256 E+F Type R and RMA.

FLUX-OFF® ROSIN REMOVERS

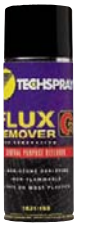
Flux-Off Rosin Remover Nos. 5JC06 and 1UYD9 are plastic safe and effective on all rosin and rosin-based no-clean flux. Available with Brush-Clean System No. 5JC06. E-line Flux Remover No. 19YY55 is a powerful, plastic-safe and economical flammable. Effective on rosin, RMA, con-clean, and OA flux. G3 Flux Remover No. 22HU60 is powerful and nonflammable. Effective on rosin, RMA, and no-clean flux.



No. 5JC06



No. 19YY51



No. 22HU60

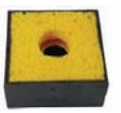


No. 19YY74

Description	Size	Brand	Mfr. Model	Item No.
Flux Removers				
Flux-Off® Rosin Remover	5 oz.	Chemtronics	ES835B	**5JC06**
Flux-Off® Rosin Remover	16 oz.	Chemtronics	ES1035	**1UYD9**
Flux Pens				
No-Clean	0.32 oz.	Chemtronics	CW8100	**5JC02**
Rosin	0.32 oz.	Chemtronics	CW8200	**5JC03**
Flux Removers				
Dissolves Type R, RMA, SaA and Most No-Clean Fluxes	0.32 oz.	Techspray	2506-N	**3JDK7**
SMT Reflow Oven Cleaner	1 qt.	Techspray	1573-QT	**19YY51**
E-LINE Flux Remover	10 oz.	Techspray	1621-10S	**19YY55**
G3 Flux Remover	16 oz.	Techspray	1631-16S	**22HU60**
Flux Dispensers				
Needle Tip, 0.50mm	2 oz.	Plato	FD-2	**19YY73**
Needle Tip, 0.25mm	2 oz.	Plato	FD-21	**19YY74**
Needle Tip, ESD, 0.25mm	2 oz.	Plato	SF-01	**19YY75**
Needle Tip, 0.02", ESD	—	Weller	FD2D	**6W719**



No. 19YP76



No. 19YP60



No. 32TV33



No. 22HU71

American Beauty HAKKO
PLATO Weller



No. 22HU66



No. 1UNE7

Soldering Tip Maintenance

Cleans and renews soldering tips for longer life.

Description	Size	Mfr. Model	Item No.	Pkg. Qty.
American Beauty				
Soldering Iron Tip Cleaner, Brass	2.75" x 2.75"	CS-BS1	**19YP75**	1
Soldering Iron Tip Cleaner, Brass	4" L	CS-BS2	**19YP76**	1
Soldering Iron Tip Cleaner, Includes Cellulose Sponge and Tray	4" L	481	**19YP60**	1
Replacement Sponge	—	481S	**49W654**	6
Hakko				
Solder Tip Cleaner Refill, Brass	—	599-029	**32TU30**	1
Tip Cleaner, Brass Sponge	S	599B-02	**32TV33**	1
Plato				
Tip Cleaning Sponge	2.12" x 1.5" x 1"	CS-1	**22HU71**	1
Tip Cleaning Sponge	2.7" x 2.7" x 0.625"	CS-44/625	**22HU80**	1
Tip Cleaning Sponge	2.7" x 2.7" x 1"	CS-44	**22HU79**	1
Tip Cleaning Sponge	2.75" x 2.15" x 1"	CS-14	**22HU72**	1
Tip Cleaning Sponge	3.2" x 2.1" x 1"	CS-47	**22HU82**	1
Tip Cleaning Sponge	3.5" x 2.25" x 1"	CS-36	**22HU77**	1
Tip Cleaning Sponge	4.5" x 3.5" x 0.625"	CS-9/625	**22HU83**	1
Tip Cleaning Sponge, Cut-to-Fit Sheet	17" x 8.5" x 0.9"	CS-17	**22HU74**	1
Tip Cleaning Sponge, Cut-to-Fit Sheet	17" x 8.5" x 0.625"	CS-17/625	**22HU75**	1
Tip Cleaning Sponge, Includes Holes	2.75" x 2.15" x 1"	CS-14M	**22HU73**	1
Tip Tinner, Oxi Tips Solder/Cleaner Combo	—	TT-95	**22HU66**	1
Weller				
Replacement Wool Ball	—	T0051384099	**1UNG4**	2
Soldering Sponge	4.625" x 3" x 1.5"	EC205	**5VZZ4**	1
Soldering Sponge, Swiss Cheese Style	—	EC305	**5VZZ5**	1
Sponge	—	WCC104	**20UX42**	1
Tip Cleaner, Dry Tip Cleaner	—	T0051512599	**20UX60**	1
Tip Dry Cleaning System, Includes Stand and One Wool Ball	—	T0051512499	**1UNG3**	1
Tip Polishing Bar	—	WPB1	**1UNE7**	1

Weller®

Fume Extractors

Bench Top—Both units feature a rotary vane pump. No. 2UV21 is designed for removing flux fumes from a soldering work bench.


No. 2UV21


No. 5WAC1

Item	Air Flow	Input Voltage	Includes	Mfr. Model	Item No.
Soldering Fume Extractors					
Benchtop Solder Smoke Absorber	87 to 107 cfm	120VAC	1 Carbon Filter	WSA350	**2UV21**
Stationary Fume Extractor	—	120/230V	Extraction Unit, Extraction Arm, Angled Nozzle, Stop Valve, Bench Mounting Bracket, and Extraction Hose	U-100-1056-ESDN	**5WAC1**
Portable Fume Extractor	—	120V	Fine Dust Filter and Compact HEPA Gas Filter	T0053660299N	**20UX28**
Soldering Fume Extractor Accessories					
Replacement Filter			For Use With Mfr. No. WFE2P	T0053641099	**20UX40**
Pre-Filter			For Use With Mfr. No. WFE2P	T0053642199	**20UX41**
Replacement Filter			For Use With Mfr. No. WFE2S	T0058735937	**20UX20**
Replacement Carbon Filter			For Use With Mfr. No. W5A350	WSA350F	**2UV22**
Arm Kit			For Use With Mfr. No. WFE2S	T0053657199N	**20UX22**
Inlet Fitting			For Use With Mfr. No. WFE2S	T0058762769	**20UX29**
Tee Inlet Fitting			For Use With Mfr. No. WFE2S	T0058762766	**20UX31**
Tube			For Use With Mfr. No. WFE2S	T0052918699N	**20UX36**
Tube			For Use With Mfr. No. WFE2S	T0052918599N	**20UX37**
Soldering Iron			For Use With Mfr. No. WFE2S	T0052916699N	**20UX38**
Parts Kit			For Use With Mfr. No. WFE2S	T0058744876	**20UX39**

Fume Extractors

HAKKO®

Benchtop Soldering Fume Extractor—Designed to be used in either a vertical, standing up position or a horizontal, laying down position. Horizontal position increases efficiency and airflow. Standard activated carbon filter absorbs up to 80 percent of odors from the air.

Soldering Fume Extractor—This extractor features powerful suction, quiet operation, High, Medium, and Low airflow adjustment, free-standing ducts, and a filter replacement indicator that notifies you when it's time to replace the filter.


No. 32TV20


No. 32TV21

Description	No. of Inlets	Air Flow	Input Voltage	Mfr. Model	Item No.
Fume Extractors					
Benchtop Soldering Fume Extractor, Activated Carbon Foam Filter	1	38.8 cfm	120VAC	FA400-04	**32TV20**
Soldering Fume Extractor, Activated Carbon Filter	2	167 cfm	120VAC	FA430-16	**32TV21**
Accessories					
For Use With Mfr. No. FA400					
Fume Extractor Carbon Filter, Polyurethane Foam, Pkg. of 5				A1001	**32TV15**
For Use With Mfr. No. FA430					
Fume Extractor Loc Line Kit, Neoprene, Round Nozzle				999-205-01B	**32TV12**
Fume Extractor Duct Kit, ESD Safe Plastic, Rectangular Nozzle				C1571	**32TV18**
Fume Extractor Duct Kit, ESD Safe Plastic, 55mm dia x 1.2m				C1572	**32TV19**
Fume Extractor Carbon Odor Filter, Pleated Media, Pkg. of 1				999-245	**32TV14**
Fume Extractor Pre Filter, Polyethylene, Pkg. of 10				A1585	**32TV16**
Fume Extractor Main Filter, Pleated Paper Medium, Pkg. of 1				A1586	**32TV17**
Fume Extractor Loc Line Kit, Neoprene, Rectangular Nozzle				999-205-02B	**32TV13**

MASTER APPLIANCE ★ WESTWARD

Butane-Powered Micro Torches

Master Appliance®—All torches are self-igniting. Meet CPSC requirements.

Nos. 32MC12 and 5PYT3 are palm size and feature pinpoint flame with lever adjustment.

No. 32MC12 includes $^{15}/_{16}$-oz. canister of butane fuel.

No. 5PYT4 table-top mount features low-profile hands free operation with safety lock and table base. Runs 1 hr.

Nos. 1WG61, 5PYT6, and 1YMK6 are designed for handheld or tabletop use. Run 2 hr. Nos. 1WG61 and 5PYT5 are open flame only.

No. 5HD24 has larger flame hands-free mode with safety lock. Runs 30 min.

Nos. 5PTY6 have miniature torch with slide lock, instant Off, and gas adjustment wheel. Run 1hr.

Nos. 1YMK5 and 6NE94 are handheld/tabletop tools that feature slide lock, gas adjustment wheel, and instant Off. Run 2 hr.

Westward®—Nos. 46Z439 feature a windproof flame and waterproof ignition.


No. 1WG61


No. 5PYT5


No. 5HD24


No. 1YMK5

Includes	Mfr. Model	Item No.
Master Appliance Micro Torches		
Refillable Fuel Cell	MT-11	**32MC12**
32MC12 and $^{15}/_{16}$ oz. (1YMK4) Can of Butane	MT-11K	**5PYT3**
Built In Refillable Metal Fuel Tank	MT-30	**5PYT4**
Built in Refillable Fuel Tank and Hands Free Lock	MT-51	**1WG61**
1WG61 and $^{15}/_{16}$ oz. (1YMK4) Can of Butane	MT-51B	**5PYT5**
1WG61, Hot Air Tip and Heat Shrink Attachment	MT-51H	**1YMK6**
Built in Refillable Metal Fuel Tank and Removable Base	GT-70	**5HD24**
Built in Refillable Fuel Tank and Removable Base	MT-70	**5PYT6**
Soldering Tip, Hot Air Tip and Removable Base	MT-76	**1YMK5**
1YMK5 Hand Torch, Table Top Stand, Wire Cutter and Needle Nose Pliers, 4 Tips (Soldering/Shrink/Polyfoam Cutter/ Hot Knife), Roll of Lead Free Solder, Plastic Case	MT-76K	**6NE94**
Westward Micro Torches		
Extended Nozzle Micro Jet Torch, 1¾"	46Z439	**46Z439**
Westward Flameless Micro Torches		
Replacement Nozzle, For Use With 4VAA3	5CYY4	**5CYY4**





MASTER APPLIANCE · WESTWARD

Butane-Powered Soldering Irons/Flameless Heat Tools

MASTER APPLIANCE®

Copper-based tips provide long life and high thermal conductivity; excellent with lead-free solder. Kits include the tool with the same beginning Mfr. Model, tips, a plastic or metal case, and other accessories listed. UL Listed.

Self-Igniting Ultratorches®

Convenient On/Off gas control and adjustable temperature control. Durable tank has built-in fuel filter. Run times: Nos. 6NE96 and 5PYR9 80 min.; Nos. 3W772 and 3W773 2+ hr.

3-in-1 Ultratorches®

Soldering iron/flameless heat tools also offer torch mode with adjustable pinpoint flame. Manual ignition. Run times: No. 3W774 20 min.

Econoiron® Kit 4-in-1 Heat Tool

Manual ignition. Run time: 60 min.

WESTWARD®

4-in-1 Auto-Ignition Tool No. 4UZZ5 operates as rapid heat-up soldering iron, hot knife, hot air blower, and precision torch. Run time: 160 min. Nos. 4UZZ6 and 4UZZ9 feature refillable fuel cells (LECs) for cold weather operation. No. 4UZZ6 has heavy-duty plated copper soldering tips.

Includes	emp. Rating	Mfr. Model	Item No.
Master Appliance Self-Igniting Ultratorches®			
Iron, Soldering and Hot Air Tips, Protective Cap	392 to 1202°F	UT-40SI	**6NE96**
Iron, Hot Air Tip, Heat Shrink Attachment, Protective Cap, Manual	1202°F Max.	UT-40SiH	**5PYR9**
Iron, Soldering and Hot Air Tips, Shrink Attachment, Protective Cap	482 to 1202°F	UT-100SI	**3W772**
3W772, 5 Tips, Shrink Attachment, Cap, Wire Cutter, Needle Nose Pliers, Solder Coil, Plastic Case	482 to 1202°F	UT-100Si-TC	**1YMK1**
3W772, Soldering and Hot Air Tips, Shrink Attachment and Metal Case	482 to 1202°F	UT-100SIK	**5HD27**
3W772 Torch, Hot Knife Tip	482 to 932°F	UT-100Si-HK	**5PYT0**
Iron, Soldering and Hot Air Tips, Heat Shrink Attachment, Protective Cap	482 to 1004°F	UT200SI	**3W773**
Master Appliance 3-in-1 Ultratorches®			
Iron, Soldering and Hot Air Tips, Protective Cap	392 to 2372°F	UT-50	**3W774**
Master Appliance Econoiron® Kit 4-in-1 Heat Tool			
5PYR7, Soldering, Hot Air, Hot Knife and Torch Tips, Solder, Sponge and Plastic Case	395 to 2370°F	EI-20K	**1WG60**
Westward Butane Soldering Irons			
Soldering Tip and Protective Cap	480° to 1000°F	—	**4UZZ5**
Chisel Tip, 7mm and Refillable LEC, PK2	480° to 1000°F	—	**4UZZ6**
Westward Butane Soldering Iron Kits			
Orifice Assembly, Sponge, Solder Dispenser, Protective Cap and Tips	480 to 1000	—	**4UZZ8**
Orifice Assembly, Sponge, Solder Dispenser, Energy Cell, Protective Cap and Tips	480 to 1000	—	**4UZZ9**

Description	Item No.	Pkg. Qty.
Accessories		
Master Appliance		
Butane Refill Canister, 15⁄16 Oz	**1YMK4**	12
Butane Refill Canister, 5⅛ oz	**3W799**	1
Butane Refill Canister, 5⅛ oz	**3KMT5**	24
Westward		
Hot Knife, For Use With 4UZZ9, 4UZZ5, 4UZZ8	**5CYX3**	1
Hot Blower, For Use With 4UZZ9, 4UZZ5, 4UZZ8	**5CYX4**	1
Replacement Orifice, For Use With 4UZZ9, 4UZZ5, 4UZZ8	**5CYX6**	1
Replacement Tip, 1.8mm, For Use With 4UZZ6	**5CYX8**	1
Hot Blower, For Use With 4UZZ6	**5CYY0**	1
Deflector for Hot Blower, For Use With 4UZZ6	**5CYY2**	1
Refillable Fuel Cell, For Use With 4UZZ6	**5CYY3**	1
Refillable Fuel Cell, For Use With 4UZZ9	**5CYY5**	1





Cordless Soldering Irons

Weller®

BATTERY-POWERED

LED—Feature LED light to illuminate work surface, 30-sec. heat-up, auto shut-off, and safety cap. No. 20JH92 includes conical tip. No. 20JH93 includes conical and chisel tips.

BUTANE-POWERED

Self-Igniting—Nos. 6NE59, 5JH60, and 5JH87 are refillable. No. 6NE58 includes iron No. 6NE59 with 4 tips, deflector, sponge, tray, and case with tool holder.

Pyropen—No. 5WAC3 operates for 3 hr. per fill and include iron, soldering and hot air tip.

Torches—No. 5VZZ6 features a spring-loaded cap, electronic igniter, LED worklight, and adjustable flame height.

No. 5VZZ7 features an adjustable flame, ergonomic rubber grip, built-in stand, and a flame lock for hands-free operation.

Description	Watts	Temp. Rating	Mfr. Model	Item No.
Battery Powered				
LED Soldering Iron	4.5	900°F	BP650MP	**20JH92**
LED Soldering Iron	6 to 8	900°F	BP865MP	**20JH93**
Butane-Powered				
Self-Igniting Piezo Ignition	25 to 75	850°F	P2C	**6NE59**
Self-Igniting Piezo Ignition Kit	25 to 75	—	P2KC	**6NE58**
Professional Self-Igniting Kit	125	—	PSI100K	**5JH60**
Professional Self-Igniting	25 to 60	482 to 932°F	WPA2N	**5JH87**
Pyropen	—	932°F	WSTA3	**5WAC3**
Microtorch	—	2400°F	ML100	**5VZZ6**
Table Top Torch	—	2400°F	ML200	**5VZZ7**
Fuel for Butane-Powered Irons, 2 oz.	—	—	TTWB1	**5JH81**

American Beauty

Soldering Irons and Kits

Heating elements are wound around steel spools, creating large reservoirs of heat to run longer seams, solder large joints, and have quicker thermal recovery. High top-end temps. make irons suitable for lead-free soldering.

Heavy-duty and Ergo irons have hardwood handles that provide thermal and electrical insulation. Pencil irons have plastic handles and plug-style tips for superior heat transfer. Ergo irons have a near 90° angle in the casing to reduce stress on hands and wrists. Soldering iron kits include soldering iron with stand, lead-free solder wire, flux, tip tinner, brass sponge tip cleaner, desoldering braid, and cleaning pad.

Tip	Tip Size	Watts	Temp. Rating	Mfr. Model	Item No.
Ergo Soldering Iron					
Diamond Style	¼	60	805°F	3125E-60	**5ZGW4**
Diamond Style	¼	75	930°F	3125E-75	**5ZGW3**
Diamond Style	⅜	100	855°F	3138E-100	**5ZGW2**
Diamond Style	⅜	150	1010°F	3138E-150	**5ZGW1**
Diamond Style	⅜"	175	1025°F	3138XE-175	**5ZGW0**
Pencil-Style Soldering Iron					
Chisel Style	⅛	20	805°F	3108-20	**5ZGV9**
Screwdriver Style	¼	40	950°F	3112-40	**5ZGV8**
Plier-Style Soldering System					
Carbon Block	¼"	1800	—	105L5	**5ZHC2**
Carbon Block	½"	1800	—	10505	**5ZHC1**
Probe-Style Soldering System					
Copper Coated Carbon Rod	¼"	1100	—	10509	**5ZHC5**
Soldering Iron					
Chisel Style	0.87mm	300	—	3178E-300	**19YP56**
Chisel Style	0.56mm	550	—	3198E-550	**19YP57**
Chisel Style	⅞	300	1000°F	3178-300	**5ZGV0**
Chisel Style	1⅛	550	1010°F	3198-550	**5ZGU9**
Diamond Style	0.62mm	250	—	3158XE-250	**19YP55**
Diamond Style	¼	60	850°F	3125-60	**5ZGV7**
Diamond Style	¼	75	930°F	3125-75	**5ZGV6**
Diamond Style	⅜	100	855°F	3138-100	**5ZGV5**
Diamond Style	⅜"	150	1010°F	3138-150	**5ZGV4**
Diamond Style	⅜	175	1025°F	3138X-175	**5ZGV3**
Diamond Style	⅝	200	1000°F	3158-200	**5ZGV2**
Diamond Style	⅝	250	1000°F	3158X-250	**5ZGV1**
Diamond Style	⅝, ⅞, 1⅛	200	1000°F, 1010°F	3158E-200	**19YP54**
Screwdriver	¼"	60	1000°F	3112 120-60	**49W655**
Soldering Plumbing System					
Carbon Block	½"	3000	—	10577	**5ZHC0**
Tweezer-Style Soldering System					
Copper Coated Stainless Steel	5⁄64"	250	—	10502	**5ZHC7**
Copper Coated Stainless Steel	⅛"	1800	—	105K5	**5ZHC3**
Copper Coated Stainless Steel	⅛"	1100	—	105L7	**5ZHC4**
Copper Coated Stainless Steel	⅛"	250	—	10504	**5ZHC6**
Soldering Iron Heating Element					
Fits With 5ZGU9				9279-550	**5ZGY9**
Fits With 5ZGV0				9277-300	**5ZGZ0**
Fits With 5ZGV1				9275X-250	**5ZGZ1**
Fits With 5ZGV2				9275-200	**5ZGZ2**
Fits With 5ZGV3				9273X-175	**5ZGZ3**
Fits With 5ZGV4,5ZGW1				9273-150	**5ZGZ4**
Fits With 5ZGV5, 5ZGW2				9273-100	**5ZGZ5**
Fits With 5ZGV6,5ZGW3				9271-75	**5ZGZ6**
Fits With 5ZGV7,5ZGW4				9271-60	**5ZGZ7**
Fits With 5ZGV8				9012-40	**5ZGZ8**
Fits With 5ZGV9				9014-20	**5ZGZ9**


No. 5ZGW0


No. 5ZGV9


No. 5ZHC1


No. 5ZGV6


No. 5ZHC7


No. 5ZHC6


No. 19YP62


No. 19YP63


No. 5ZHA5

Tip Dia.	Overall Length (in.)	For Use With	CHISEL Mfr. Model	CHISEL Item No.	DIAMOND Mfr. Model	DIAMOND Item No.	SCREWDRIVER Mfr. Model	SCREWDRIVER Item No.	CHISEL, 438" LENGTH Mfr. Model	CHISEL, 438" LENGTH Item No.
Soldering Tips										
⅛"	2.25	5ZGV9, 5ZHA9	501	**5ZGY6**	505	**5ZGY7**	507	**5ZGY8**	—	—
3⁄16"	2.25	5ZHA8	643	**5ZGY3**	610	**5ZGY4**	618	**5ZGY5**	—	—
¼"	3.375	5ZGV6, 5ZGV7, 5ZGW3, 5ZGW4	42C	**5ZGX7**	42D	**5ZGX8**	42S	**5ZGX9**	—	—
¼"	2.25	5ZGV8, 5ZHA7	704	**5ZGY0**	709	**5ZGY1**	720	**5ZGY2**	—	—
⅜"	4.375	5ZGV3, 5ZGV4, 5ZGV5,5ZGW0, 5ZGW1, 5ZGW2	—	—	43D	**5ZGX5**	43S	**5ZGX6**	43C	**5ZGX4**
⅝"	4.685	5ZGV1, 5ZGV2	44C	**5ZGX1**	44D	**5ZGX2**	44S	**5ZGX3**	—	—
⅞"	5.14	5ZGV0	45C	**5ZGW8**	45D	**5ZGW9**	45S	**5ZGX0**	—	—
1⅛"	5.87	5ZGU9	46C	**5ZGW5**	46D	**5ZGW6**	46S	**5ZGW7**	—	—

Tip	Watts	Temp. (°F)	Includes	Mfr. Model	Item No.
Soldering Kit					
Chisel	25	875°	25W Precision Pencil-Style Soldering Iron with Stand, 6 oz. Lead-Free Solder Wire, Flux Pen, Tip Tinner, Brass Sponge Tip Cleaner, Desoldering Braid, Heat Sink, Cleaning Pad	PSK25	**19YP61**
Iron Plated Copper	50	1050°	50W Heavy-Duty Pencil-Style Soldering Iron with Stand, 6 oz. Lead-Free Solder Wire, 2 oz. Flux, Tip Tinner, Brass Sponge Tip Cleaner, Desoldering Braid, Heating Element Cleaner, Cleaning Pad	PSK50	**19YP62**
Iron Plated Copper	150	1000°	150W Heavy-Duty Soldering Iron with Stand, ¼ lb. of Lead-Free Solder Wire, 6 oz. Flux, Tip Tinner, Brass Sponge Tip Cleaner, Desoldering Bulb, Heating Element Cleaner, Cleaning Pad	PSK150	**19YP63**
Chisel	300	1050°	Carrying Case, Soldering Iron Cradle, Abrasive Cleaning Pad, Brass Sponge Tip Cleaner, Paste Flux, Liquid Flux, Spiral Bore Brush, Lead-Free Solder, Solid Sal Ammoniac Block, Solder Sucker	PSK300	**36JT53**
Chisel	300	1050°	Carrying Case, Soldering Iron Cradle, Abrasive Cleaning Pad, Brass Sponge Tip Cleaner, Paste Flux, Liquid Flux, Spiral Bore Brush, Lead-Bearing Solder, Solid Sal Ammoniac Block, Solder Sucker	PSK300-PB	**36JT54**
Soldering Iron Maintenance Kit					
For Use With Soldering Iron 5ZGV8, 5ZHA7, 5ZGV6, 5ZGV7, 5ZGW3, 5ZGW4, 5ZGV3, 5ZGV4, 5ZGV5, 5ZGW0, 5ZGW1, 5ZGW2, 5ZGV1, 5ZGV2, 5ZGV0 and 5ZGU9			Bore Brushes for ¼" thru 1⅛" Heavy-Duty Irons (5 total)	CS-ABKIT	**5ZHA5**

HAKKO®

Soldering/Desoldering Stations and Tips

Soldering Stations—Digital Soldering Station No. 32TV10 allows you to choose between 5 preset temperatures. It features new password protection and a low temperature alarm that provides process control and helps protect against cold solder joints. ESD safe. No. 32TV11 features superior heat transfer and thermal recovery, a lockout key card, low temperature alarm, and automatic shutoff after 30 min. Stations Nos. 32TU96 and 32TU97 include process control so you can select any temperature without changing the tip. LED in handpiece tells the operator the iron is hot. Include automatic shutoff and sleep mode. No calibration necessary.

Rework and Desoldering Stations—Hot Air Pencil Station No. 32TU94 is perfect for soldering and desoldering small surface-mount components, shrinking tubing, heating test, and other local heating operations. Ultra-light setting for air volume control. ESD safe. Desoldering Stations Nos. 32TU99 and 32TV01 have a self-contained, built-in vacuum. No. 32TV01 includes a conversion port. Rework Stations Nos. 32TV04, 32TV06, and 32TV07 can power any Hakko FM Series handpiece. Graphic user interface is designed for easy setup and operation. Features 3 simultaneous powered ports, self-contained pump, digital airflow indicator, manual or automatic profile for hot air, auto shutoff with sleep function, passcode protection, and security lock.



Soldering Station
No. 32TV11



Soldering/Desoldering Station
No. 32TV04



No. 32TU99

Temp. Range (F)	Watts	Includes	Mfr. Model	Item No.
Soldering Station				
120° to 899°	70	Mfr. No. FX-8801 Soldering Pencil, T18-D16 Tip and FH-800 Holder	FX888D-23BY	**32TV10**
400° to 840°	75	Mfr. No. FM-2027 Soldering Handpiece and FH-200 Series Holder	FX951-66	**32TV11**
	140	Mfr. No. FM-2027 Soldering Handpiece and FH-200 Series Holder	FM203-01	**32TU96**
	140	Mfr. No. 2X FM-2027 Soldering Handpiece and 2X FH-200 Series Holders	FM203-DP	**32TU97**
400° to 930°	140	Mfr. No. FM-2030 Heavy Duty Soldering Handpiece and FH200-01 Holder	FM203-HD	**32TU98**
Soldering Iron				
240° to 540°F	67	Mfr. No. T19-D5	FX601-02/P	**32TV29**
Rework Station				
400° to 840°	120	Mfr. No. FM-2024 Desoldering Handpiece, FM-2027 Soldering Handpiece and 2X FH-200 Series Holders	FM204-CP	**32TV01**
660° to 840°	410	Mfr. No. FM-2024 Desoldering Handpiece, FM-2027 Soldering Handpiece, FM-2029 Hot Air Pencil Handpiece and 2X FH-200 Series Holders and 1 C5034 Holder	FM206-DSA	**32TV04**
Desoldering Tool 660° to 840°F, Hot Tweezer 400° to 750°F, Soldering Iron 400° to 840°F	410	Mfr. No. FM-2024 Desoldering Handpiece, FM-2022 SMD Tweezers, FM-2027 Soldering Handpiece, 3X FH-200 Series Holders	FM206-DTS	**32TV06**
660° to 840°	410	Mfr. No. FM-2027 Soldering Handpiece, FM-2022 SMD Tweezers, FM-2029 Hot Air Pencil Handpiece and 2X FH-200 Series Holders and 1 C5034 Holder	FM206-STA	**32TV07**
Hot Air Pencil Station				
212° to 1004°	85	(1) 2.0mm Nozzle	851-2	**32TU94**
Desoldering Station				
400° to 840°	80	Mfr. No. FM-2024 Desoldering Handpiece and FH-200 Series Holder	FM205-01	**32TV02**
	120	Mfr. No. FM-2024 Desoldering Handpiece and FH-200 Series Holder	FM204-01	**32TU99**
660° to 930°	140	Case, Maintenance Accessories	FR-301-03/P	**481V08**

Type	Size	Mfr. Model	Item No.
Desoldering Tweezer Tip			
For Use With Mfr. No. FX-8804, 950			
Flat Blade	1.0mm	A1379	**32TV35**
	2.0mm	A1378	**32TV34**
For Use With Mfr. No. FM-2022			
Flat Blade	0.5mm	T16-1002	**32TV85**
	1.0mm	T16-1003	**32TV86**
	2.0mm	T16-1004	**32TV87**
	6.0mm	T16-1005	**32TV88**
Pointed	0.5mm	T16-1001	**32TV84**
For Use With Mfr. No. FM-2023			
Conical, Micro	0.2mm	T9-I	**32TW24**
Flat Blade, Micro	1.0mm	T9-L1	**32TW25**
	2.0mm	T9-L2	**32TW26**
Nozzle			
For Use With Mfr. No. FR-801, FR-802, FR-803B			
Hot Air, Bent Single	1.5 x 3.0mm	A1142B	**32TU46**
Hot Air, Single Jet	2.5mm	A1124B	**32TU44**
	4.4mm	A1130	**32TU45**
For Use With Mfr. No. FM-2024			
Extra Long	1.0 x 2.3mm	N3-L10	**32TU88**
Round	0.6 x 1.9mm	N3-06	**32TU81**
	0.8 x 2.0mm	N3-08	**32TU82**
	1.0 x 2.2mm	N3-10	**32TU83**
	1.3mm x 2.6mm	N3-13	**32TU84**
	1.6 x 3.0mm	N3-16	**32TU85**
	2.0 x 3.4mm	N3-20	**32TU86**
	2.3 x 3.8mm	N3-23	**32TU87**
For Use With Mfr. No. FM-2029			
Hot Air, Single Jet	2.0mm	N4-01	**32TU89**
	4.0mm	N4-02	**32TU90**
	6.0mm	N4-03	**32TU91**
For Use With Mfr. No. 802, 807, 808, 817			
Extra Long	1.0 x 2.3mm	A1394	**32TU48**
	1.3 x 2.3mm	A1395	**32TU49**
Round	0.6 x 1.5mm	A1487	**32TU51**
	0.8 x 1.8mm	A1002	**32TU35**
	0.8 x 2.3mm	A1004	**32TU37**
	1.0 x 2.0mm	A1003	**32TU36**
	1.0 x 2.5mm	A1005	**32TU38**
	1.3 x 3.0mm	A1006	**32TU39**
	1.6 x 3.0mm	A1007	**32TU40**
	2.3 x 4.0mm	A1396	**32TU50**
Thin Pad	1.0 x 1.4mm	A1393	**32TU47**
Soldering Tip			
For Use With Mfr. No. FX-8801, C1148B			
Bent Conical	0.2mm x 4mm x 10.5mm	T18-BR02	**32TV94**
Chisel	0.8mm x 14.5mm	T18-D08	**32TV99**
	1.2mm x 14.5mm	T18-D12	**32TW01**
	1.2mm x 22.5mm	T18-DL12	**32TW05**
	1.6mm x 14.5mm	T18-D16	**32TW02**
	2.0mm x 22.5mm	T18-DL2	**32TW06**
	2.4mm x 14.5mm	T18-D24	**32TW03**
	3.2mm x 14.5mm	T18-D32	**32TW04**
	3.2mm x 22.5mm	T18-DL32	**32TW07**
	5.2mm x 18mm	T18-S3	**32TW11**
Conical	0.5mm x 14.5mm	T18-B	**32TV92**
Knife Blade	5.0mm x 14mm	T18-K	**32TW10**

Type	Size	Mfr. Model	Item No.
For Use With Mfr. No. FM-2027			
Bent Chisel	0.8mm x 3.5mm x 12mm	T15-JD08	**32TV70**
	1.4mm x 6mm x 7mm	T15-JD14	**32TV71**
	1.6mm x 6mm x 4.5mm	T15-JD16	**32TV72**
Bent Conical	0.2mm x 1.6mm x 7.9mm	T15-JS02	**32TV74**
	0.2mm x 3.5mm x 12mm	T15-J02	**32TV69**
	0.2mm x 7.5mm x 9.3mm	T15-JL02	**32TV73**
Bevel	0.6mm x 14mm	T15-SBC04	**32TV82**
	1mm x 11.5mm	T15-BC1	**32TV43**
	1mm x 11.5mm	T15-BCF1	**32TV49**
	1mm x 12mm	T15-C1	**32TV51**
	1.2mm x 15mm	T15-BC12	**32TV44**
	1.5mm x 17mm	T15-BC15	**32TV45**
	2mm x 11.5mm	T15-BC2	**32TV46**
	2mm x 19mm	T15-CF2	**32TV53**
	2.8mm x 17.6mm	T15-BC28	**32TV47**
	3mm x 10mm	T15-BC3	**32TV48**
	3mm x 19.5mm	T15-CF3	**32TV54**
	4mm x 11.5mm	T15-C4	**32TV52**
Chisel	0.8mm x 9.5mm	T15-D08	**32TV55**
	1.2mm x 10mm	T15-D12	**32TV56**
	1.5mm x 3mm x 19mm	T15-1605	**32TV40**
	1.5mm x 17mm	T15-1603	**32TV39**
	1.6mm x 10mm	T15-D16	**32TV57**
	2.0mm x 5mm	T15-D2	**32TV58**
	2.4mm x 10mm	T15-D24	**32TV59**
	3.2mm x 5mm	T15-D32	**32TV60**
	3.2mm x 10mm	T15-DL32	**32TV63**
	4.0mm x 7.5mm	T15-D4	**32TV61**
	4.0mm x 22mm	T15-DL4	**32TV64**
	5.2mm x 8mm	T15-D52	**32TV62**
	5.2mm x 12mm	T15-DL52	**32TV65**
Conical	0.15mm x 13.5mm	T15-ILS	**32TV68**
	0.2mm x 7.5mm	T15-B	**32TV41**
	0.2mm x 9.5mm	T15-I	**32TV66**
	0.2mm x 12.7mm	T15-IL	**32TV67**
	0.2mm x 14mm	T15-SB02	**32TV79**
	0.2mm x 15mm	T15-BLL	**32TV50**
	0.3mm x 16.5mm	T15-SB03	**32TV80**
	0.4mm x 14mm	T15-SBS04	**32TV83**
	0.5mm x 10mm	T15-B2	**32TV42**
	0.8mm x 10.5mm	T15-SB08	**32TV81**
Flat Blade	10.4mm	T15-1401	**32TV36**
	15.7mm	T15-1402	**32TV37**
	21.2mm	T15-1403	**32TV38**
Knife Blade	3mm x 11mm	T15-KU	**32TV78**
	4.7mm x 11mm	T15-KL	**32TV77**
	4.7mm x 15mm	T15-K	**32TV75**
	4.7mm x 17mm	T15-KF	**32TV76**
For Use With Mfr. No. FM-2030			
Chisel, Heavy Duty	4.5mm	T22-D45	**32TW22**
Solder Tip			
For Use With Mfr. No. FX-1001			
Chisel	0.20" x 0.30"	T31-01D52	**45LR63**



No. 1UNG1



No. 1UNF4



No. 481D58



No. 481D59



No. 483N57



No. 5JH84



No. 5ZHA7

Type	Size	Brand	Mfr. Model	Item No.
Soldering Tweezers				
For Use With Mfr. No. WMRTMS				
Micro	1/32"	Weller	T0054465799N	**20UY21**
	15/64"	Weller	T0054465999N	**20UY23**
Soldering Tips				
For Use With Mfr. No. WMRPMS				
Needle	.4mm	Weller	T0054461599N	**20UX84**
Round	.4mm	Weller	T0054460173N	**20UX82**
RT5MS Needle	.8mm	Weller	T0054461999N	**20UX87**
RT6MS Needle	1.2mm	Weller	T0054462099N	**20UX88**
RT7MS Needle	2.2mm	Weller	T0054462199N	**20UX89**
For Use With Mfr. No. WP120				
Chisel	0.8mm	Weller	T0054471399	**20UX74**
	3.2mm	Weller	T0054471099	**20UX71**
Long Conical	1mm	Weller	T0054471499	**20UX75**
Round, Sloped	1.6mm	Weller	T0054470899	**20UX70**
Round Sloped	1.2mm	Weller	T0054471899	**20UX77**
For Use With Mfr. No. WXP65				
Chisel	2.4mm	Weller	T0054485799	**20UY07**
For Use With PES51, WES51, WESD51				
Conical	0.63"	Weller	ETP	**1UNG8**
Long Conical	.015"	Weller	TETS	**1UNF8**
	.015"	Weller	ETO	**1UNF9**
Screwdriver	0.63"	Weller	ETH	**1UNG2**
	0.63"	Weller	ETA	**1UNG7**
	0.63"	Weller	ETB	**1UNG1**
For Use With SP40L, WLC100				
Conical	1/32"	Weller	ST7	**3JDP2**
Screwdriver	1/32"	Weller	TST6	**3JDN9**
	3/32"	Weller	ST2	**3JDN3**
	3/16"	Weller	TST4	**3JDN7**
For Use With SP40L, WLC100, WP35				
Screwdriver	1/8"	Weller	TST3	**3JDN5**
For Use With WD1002, WSP80				
Chisel	0.38"	Weller	T0054444099	**1UNG5**
	0.43"	Weller	T0054443799	**1UNF7**
	0.43"	Weller	T0054440599	**1UNF4**
	0.43"	Weller	T0054440799	**1UNF5**
	0.73	Weller	T0054443899	**1UNF6**
Round	0.59"	Weller	T0054443699	**1UNG6**
For Use With WSM1, WSM1C, WD1000M, WD2000M, WMRS				
Bent Chisel	.032"	Weller	T0054460599N	**6KCL4**
Chisel	.032"	Weller	T0054460999N	**6KCL8**
	.052"	Weller	T0054460399N	**6KCL2**
	.062"	Weller	T0054460499N	**6KCL3**
	.088"	Weller	T0054460899N	**6KCL7**
	.144"	Weller	T0054461199N	**6KCN0**
Fine Point	.032"	Weller	T0054460299N	**6KCL1**
Gull Wing	.048"	Weller	T0054461099N	**6KCL9**
Knife	.088"	Weller	T0054460799N	**6KCL6**
Round Slope	.048"	Weller	T0054460699N	**6KCL5**
For Use With WTCPT				
Conical	1/32"	Weller	PTP7	**3JDR6**
Narrow	1/16"	Weller	PTR7	**3JDR8**
Screwdriver	1/32"	Weller	PTH7	**3JDR4**
	1/16"	Weller	PTA7	**3JDP5**
	3/32"	Weller	TPTB7	**3JDP7**
	1/8"	Weller	PTC7	**3JDP9**
	3/16"	Weller	PTD7	**3JDR2**
Accessories				
Replacement Pencil Iron, For Use With Mfr. No. WD1 and WD2 Soldering Stations		Weller	T0052918099N	**20UX58**

Type	Temp. Range (F)	Watts	Brand	Mfr. Model	Item No.
Digital Soldering Stations					
Digital	120° to 1100°	900	Weller	WTHA1N	**481D58**
	150° to 850°	95	Weller	WT1013N	**481D59**
	200° to 850°	70	Weller	WE1010NA	**483N57**
Analog Soldering Stations					
Variable Control	900°	5 to 40	Weller	WLC100	**5JH84**
Professional-Grade	1100°F	60	American Beauty	V36GL3	**5ZHA7**
	1000°F	40	American Beauty	V36GM3	**5ZHA8**
	800°F	20	American Beauty	V36GS3	**5ZHA9**

Weller® American Beauty

Digital and Analog Soldering/ Desoldering Stations

- ESD-safe, protects sensitive components
- 120V, 60 Hz

DIGITAL SOLDERING STATIONS

No. 481D58 provides accurate adjustment of hot air through brushless turbine. Designed with up to 5 presets that can be set to run automatically. No. 481D59 features front panel power switch, setback, lockout, temperature window, standby, auto-off, and LCD display. No. 483N57 has standby mode, auto shut off, intuitive navigation, password lockout, LCD, and lightweight soldering pencil.

ANALOG SOLDERING

Variable Control—Great for hobbyists, students, and do-it-yourself projects. Uses Weller® ST series iron-plated copper soldering tips.

Professional Grade—Heating elements are wound around steel spools, creating large reservoirs of heat and resulting in the ability to run longer seams, solder large joints, and a shorter thermal recovery time.


No. 4Z766


No. 5JH78


No. 28EA39


No. 28EA36


No. 1UNE4


No. 39WE09


No. 5JH70


No. 20UX43

Weller®

Soldering Irons

Note: For soldering stations, see page 237. For all replacement tips and parts, call 1-800-GRAINGER (472-4643); or go to Grainger.com® and search for "soldering iron replacement tips".

Professional—Feature quick-change knurled collar, stainless steel barrel, cushion-grip handle, and plug-in heating element. 6-ft., 3-wire cord. Irons are 7⅞"L. UL Listed.

Controlled Output—Portable line-voltage irons require no base station. Temperature controlled by tip, with modular plug-in heater and fast heat-up. 6-ft. cord.

Marksman®—Pencil-handle irons have On indicator light, stainless steel barrel, and heat- and impact-resistant handle. LED light in handle illuminates workspace. 6-ft. cord. UL Listed. Kits include 3 tips, soldering aid tool, and lead-free solder.

General-Purpose—Lightweight pencil irons have burn-resistant silicone rubber cord.

Description	Tip	Watts	Temp. Rating	Mfr. Model	Item No.
Professional					
Industrial 35-Watt Soldering Iron, Industrial, Single	Chrome Plated	35	850°F	WP35	**4Z766**
Soldering Iron, Professional-Grade	Screwdriver	30	800°F	WP30	**3KMT9**
Controlled Output					
Soldering Iron	Nickel Plated Copper	60	600 to 800°F	W60P3	**5JH79**
Soldering Iron	Nickel Plated Copper	100	600° to 800°F	W100P3	**5JH78**
Marksman®					
LED Soldering Iron, Compact	Conical	25	750°F750°F	SP25NUS	**28EA35**
LED Soldering Iron, Compact	Chisel	15	750°F750°F	SP15NUS	**28EA34**
LED Soldering Iron, Compact	Chisel	40	900°F900°F	SP40NUS	**28EA37**
LED Soldering Iron, Compact	Chisel	80	900°F900°F	SP80NUS	**28EA39**
LED Soldering Iron Kit, Compact	Conical	25	750°F750°F	SP25NKUS	**28EA36**
LED Soldering Iron Kit, Compact	Chisel	40	900°F900°F	SP40NKUS	**28EA38**
Soldering Iron	Chisel	175	900°F	SP175	**3KMT8**
General-Purpose					
Soldering Iron	EPH101	20	350° to 850°F	EC1302B	**24AC60**
Soldering Iron	Screwdriver	50	350 to 850°F	PES51	**1UNE4**
Soldering Iron	XNT Series	65	200° to 850°F	T0052921599N	**39WE09**
Soldering Iron, Light Weight and Compact	Nickel Plated Copper	80	900°F	SPG80L	**5JH70**
Soldering Tool Stand					
For Use With Mfr. No. EC1201P, EC1204P, EC1201A, TC201T Irons	—	—	—	PH1201ESD	**20UX43**
For Use With Mfr. No. PES50	—	—	—	PH50	**20UX44**


No. 4Z764


No. 5VZZ2


No. 458T18


No. 31LV96


No. 31LW10

Weller®

Soldering Guns

Trigger selection switch delivers high or low temperature output. Built-in lamp. 6-ft., 2-wire cord. Kits include gun with pretinned copper tip, 2 extra untinned copper tips, flux brush, soldering aid tool, coil of 40/60 rosin-core solder, and blow-molded carrying case. Industrial gun includes coil of low-lead solder.

Description	Tip	Watts	Features	Mfr. Model	Item No.
Soldering Guns					
Soldering Gun Kit	—	200	Built-in Lamp, 6 Feet 2 Wire Cord	D550PK	**4Z764**
Soldering Gun	Standard	300/200	2 Wire Cord, Trigger Control, 2 Wattage Positions	D650	**5VZZ2**
Soldering Iron Kit	Chisel Style	100 to 140	6 sec. Heat Up, 3 Built-In Led's, 2-Trigger Positions	9400PKS	**458T18**
Gun Tips					
For Use With 4Z764, 5VZZ2				7250W	**31LV96**
For Use With 4Z764				6150	**31LW10**


No. 2AC08


No. 6A907


No. 6A908


No. 6A912


No. 6A913


No. 6A916

Weller®

Modular Soldering Irons

Preassembled Irons are a combination of the most popular modular components, and include handle, heater, and tip. For a customized iron, combine No. 6A907 soldering handle with choice of heating element and thread-on tip. Handle is 3-wire grounded with 4½-ft. cord and features "soft touch" acid- and flux-resistant grips. UL Listed (E21922).

Description	Watts	Temp. Rating	Mfr. Model	Item No.
Preassembled Irons				
Iron with Pencil Point Tip	23	700°F	SL325	**2AC08**
Iron with Chisel Tip	33	800°F	SL335	**2AC09**
Handle Only				
Modular Soldering Handle	—	—	7500	**6A907**
¼" Thread On Heating Elements				
Heating Element	23	700°F	537S	**6A908**
Heating Element	33	800°F	1237S	**6A909**
Heating Element	45	900°F	T4037S	**6A910**
Heating Element	50	1000°F	37UG	**6A911**

Description	Mfr. Model	Item No.
¼" Thread On Tips		
Precision Electronic Tip	PL100	**6A912**
Chisel Tip	PL113	**6A913**
Large Taper Chisel Tip	PL133	**6A914**
Screwdriver Tip	PL151	**6A915**
Large Chisel Tip	PL350	**6A916**


No. 400H02


No. 5EGA6


No. 5EGA8


No. 1UYH3


No. 1UYH1


No. 1UYD8



No. 3THF6




No. 19YP70


No. 1UYH9


No. 3THF5

Electrical/ Electronic Solder

Contents	Wire Dia. (in.)	Application	Container Size	Std.	Brand	Item No.
AquaSafe 100 Lead Free Solder 1/8in 1#						
Tin, Copper, Silver	1/8"	For joining copper and dissimilar metals in drinking water lines. Works, melts and solders drinking water lines.	1 Lb	—	All-State	**400H02**
Bar Solder						
40% Lead, 60% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	1 lb.	ASTM B32	Worthington	**5EGA6**
50% Lead, 50% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	1 lb.	ASTM B32	Worthington	**5EGA7**
50% Lead, 50% Tin	5/16	Used For Waste, Sheet Metal And Non Potable Water	0.50 lb.	ASTM B32	Worthington	**5EGA8**
50% Lead, 50% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	0.32 lb.	ASTM B32	Worthington	**5EGA9**
50% Lead, 50% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	0.43 lb.	ASTM B32	Worthington	**5EGC0**
50% Lead, 50% Tin	7/16	Used For Waste, Sheet Metal And Non Potable Water	0.50 lb.	ASTM B32	Worthington	**5EGC1**
50% Lead, 50% Tin	0.250 x 0.250	Sheet Metal, Roofing	8 oz.	—	American Beauty	**36JT60**
60% Lead, 40% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	1 lb.	ASTM B32	Worthington	**5EGC2**
70% Lead, 30% Tin	—	Used For Waste, Sheet Metal And Non Potable Water	1 lb.	ASTM B32	Worthington	**5EGC3**
97.25% Tin, 2% Antimony, 0.375% Copper, 0.375% Silver	0.250 x 0.250	Sheet Metal, Roofing	6.4 oz.	—	American Beauty	**36JT59**
Leaded Solder						
40% Tin, 60% Lead, Rosin Core	0.062	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYH7**
60% Lead, 40% Tin, Acid Core	0.062	Used For Tin Repairs, Sheet Metal, Auto Radiators, Metal Gutters	1 lb.	ASTM B-32	Worthington	**1UYH8**
60% Tin, 40% Lead, Rosin Core	0.031	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYH4**
60% Tin, 40% Lead, Rosin Core	0.062	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYH3**
60% Tin, 40% Lead, Rosin Core	0.125	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYH6**
Lead Free Solder						
94% Tin, 6% Silver	0.118	For HVAC Soldering	1 lb.	ASTM B-32 Sn94 NSF61	Worthington	**1UYH1**
96.5% Tin, 3.0% Silver, 0.5% Copper	0.032	For All Lead-Free Soldering Needs	6 oz.	—	American Beauty	**19YP69**
96.5% Tin, 3.0% Silver, 0.5% Copper, Rosin Core	0.040	Used on All Solder Joints	125"	QQ-571E WRAPII, Type ROM1 flux per IPC J-STD-004	Chemtronics	**1UYD8**
96% Tin, 4% Silver	0.118	For HVAC Soldering	1 lb.	ASTM B-32 Sn96 NSF61	Worthington	**1UYG6**
97% Tin, 3% Copper	0.093	For All Lead-Free Soldering Needs	4 oz.	—	American Beauty	**19YP70**
97% Tin, 3% Copper, Acid Core	0.125	Used For Tin Repairs, Sheet Metal, Auto Radiators, Metal Gutters	1 lb.	ASTM B-32	Worthington	**1UYK6**
97% Tin, 3% Copper, Rosin Core	0.031	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYH9**
97% Tin, 3% Copper, Rosin Core	0.062	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYK5**
97% Tin, 3% Copper, Rosin Core	0.100	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYK7**
97% Tin, 3% Copper, Rosin Core	0.125	Used For Speaker Wire, Motors, Appliances and General Wiring	1 lb.	ASTM B-32	Worthington	**1UYK8**
Solid Wire Solder						
96% Tin, 4% Silver	0.125	Used in HVAC For All Metals With the Exception of Aluminum	8 oz.	NSF 51	Harris	**3THF5**
Solid Wire Solder Kit						
96% Tin, 4% Silver	0.125	Used in HVAC For All Metals With the Exception of Aluminum	—	ASTME B32	Harris	**3THF6** *

**** Includes 1/2 oz. solder and 1/2 oz. flux.***


No. 5ZHE9


No. 5ZHF0


No. 32TV28


No. 19YP58


No. 5ZHF1


No. 5ZHA6

Solder Pots

American Beauty—For lead-free soldering. Chemically stable, cast-iron crucibles are resistant to corrosion. Cartridge heating elements are inserted directly into the crucible. Internal removable dross skimmer increases safety and maintains solder purity and temperature. Use for pretinning wires, connectors, and other assembly components. 110-120VAC.

Hakko—Analog Pot No. 32TV27 features analog functionality and a rugged ceramic heating element. Lead-free compatible and can accommodate two pot sizes. Digital Pot No. 32TV28 is used for dip soldering and tinning the ends of wire leads. Features four different heating programs and convenient timer, which is useful where reliable control of solder temperature is essential.

Description	Watts	Brand	Mfr. Model	Item No.
Solder Pots				
1 lb, Lead-Free	320	American Beauty	300	**5ZHE9**
2.5 lb, Lead-Free	600	American Beauty	600	**5ZHF0**
Analog Lead-Free	200	Hakko	FX300-03	**32TV27**
Digital Lead-Free	290	Hakko	FX301B-03	**32TV28**
Electric Lead-Free	135	American Beauty	MP-9	**19YP58**
Accessories				
Replacement Thermostat	—	American Beauty	8055	**5ZHF3**
Solder Pot Heating Element, 160 Watts, Fits No. 5ZHE9	160	American Beauty	9301-2X	**5ZHF1**
Solder Pot Heating Element, 300 Watts, Fits No. 5ZHF0	300	American Beauty	9300-2X	**5ZHF2**
Solder Pot Heating Element, Fits No. 19YP58	—	American Beauty	MP-9H	**49W653**
Voltage Control Unit	—	American Beauty	V3700	**5ZHA6**

Looking for additional Dayton components? See Grainger.com® for even more Illuminated and Nonilluminated Push Buttons, Selector Switches, LED Modules, and Contact Blocks.

Dayton


No. 30G082


No. H7743


No. 30G154


No. 30G294



22mm Illuminated Push Buttons—Complete Units

Dayton

- LED
- 1NO/1NC contact
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Feature flush head and momentary action. Chrome construction. UL Listed. CSA and CE Certified.

▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Color	Item No.
24VAC/DC, 120VAC	Green, Red, Yellow	**H6943**


No. 30G234

22mm Nonilluminated Push Buttons—Complete Units

Dayton

- Momentary action
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Round shape. UL Listed. CSA and CE Certified.

Type of Operator	Contact Form	Legend	PLASTIC Black Item No.	PLASTIC Green Item No.	PLASTIC Red Item No.	CHROME DIE CAST ALUMINUM Black Item No.	CHROME DIE CAST ALUMINUM Green Item No.	CHROME DIE CAST ALUMINUM Red Item No.	CHROME DIE CAST ALUMINUM Yellow Item No.
Flush Button	1NO/1NC	No Legend	**30G232**	**30G233**	**30G234**	**30G236**	**30G237**	**30G238**	—
Flush Button	1NO	No Legend	**30G224**	**30G225**	—	**30G227**	**30G228**	—	—
Flush Button	1NO	I	—	—	—	—	**30G240**	—	—
Flush Button	1NC	No Legend	—	—	**30G230**	—	—	—	—
Flush Booted Button	1NO	No Legend	**32UK43**	—	—	**30G242**	**30G243**	—	**30G244**
Extended Button	1NC	No Legend	—	—	**32UK48**	—	—	**30G246**	—
40mm Mushroom Head	1NO	No Legend	—	**32UK29**	—	**30G247**	**32UK32**	**32UK34**	—


No. 30G262

22mm Selector Switches—Complete Units

Dayton

- 10A
- NEMA 1, 2, 3, 4 and 4X rated

Chrome construction. Black Lever. UL Listed. CSA and CE Certified.

Position	Action	Type of Operator	Key Removal	Contact Form	PLASTIC Item No.	METAL Item No.
2	Maintained / Momentary	Keyed	Left	1NO	—	**30G259**
2	Maintained / Maintained	Keyed	Left	1NO	—	**30G269**
2	Maintained / Maintained	Keyed	Left/Right	1NO	**30G270**	**30G271**
2	Maintained / Maintained	Lever	No Key	1NO	**30G264**	**30G265**
2	Maintained / Maintained	Extended Lever	No Key	1NO	**30G266**	**30G267**
3	Momentary / Maintained / Momentary	Lever	No Key	2NO	**30G260**	**30G261**
3	Momentary / Maintained / Momentary	Extended Lever	No Key	2NO	**30G262**	—
3	Maintained / Maintained / Maintained	Keyed	Any Position	2NO	—	**30G277**
3	Maintained / Maintained / Maintained	Keyed	Center	2NO	**30G278**	**30G279**
3	Maintained / Maintained / Maintained	Lever	No Key	2NO	**30G272**	**30G273**
3	Maintained / Maintained / Maintained	Extended Lever	No Key	2NO	**30G274**	**30G275**


No. 30G209

22mm LED Pilot Lights—Complete Units

Dayton

- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Designed with screw-clamp terminal connection. Round shape. LED lamps provide 10,000 hr. of average life. UL Listed. CSA and CE Certified.

Voltage	PLASTIC Green Item No.	PLASTIC Red Item No.	PLASTIC White Item No.	PLASTIC Yellow Item No.	METAL Green Item No.	METAL Red Item No.
24VAC/DC	**30G209**	**30G210**	**30G208**	**30G211**	**30G213**	**30G214**
120VAC	**30G217**	**30G218**	**30G216**	**30G219**	**30G221**	**30G222**


No. 32W267


No. 32W274


No. 32W275


No. 32W278

22mm Push-Button Control Stations—Complete Units

Dayton

- ABS NEMA 4X enclosures
- 600VAC
- Station contact rating: 3A at 240VAC, 6A at 120VAC, 0.27A at 250VDC, 0.55A at 125VDC

Surface-mount stations are 600VAC/DC. Gray enclosures. UL Listed, IEC, CSA and CE Certified. No. 32W279 is UL Listed, IEC and CSA Certified.

Action	No. of Operators	Legend	Contact Form	Operator Color	Encl. Material	H	W	D	Item No.
Push Button Control Stations									
Momentary	1	Start	1NO	Black	ABS	1.98"	2.92"	2.69"	**32W265**
Momentary	1	Stop	1NC	Red	ABS	1.98"	2.92"	2.69"	**32W266**
Momentary	2	Start/Stop	1NO/1NC	Black/Red	ABS	1.98"	4.09"	2.69"	**32W267**
Momentary	2	Forward/Reverse	2NO	Black	ABS	1.98"	4.09"	2.69"	**32W268**
Momentary	3	Open/Stop/Close	2NO/1NC	Black/Red	ABS	1.98"	5.27"	2.69"	**32W271**
Momentary	3	Forward/Stop/Reverse	2NO/1NC	Black/Red	ABS	1.98"	5.27"	2.69"	**32W272**
Momentary	3	Up/Stop/Down	2NO/1NC	Black/Red	ABS	1.98"	5.27"	2.69"	**32W273**
Momentary	1	Stop	1NC	Red	ABS	1.98"	2.92"	2.69"	**32W274**
Twist-to-Release	1	Twist to Release Arrows	1NC	Red	ABS	1.98"	2.92"	2.69"	**32W275**
Key-to-Release	1	Emergency Stop	1NC	Red	ABS	1.98"	2.92"	2.69"	**32W276**
Push / Pull	1	No Legend	1NC	Red	ABS	1.98"	2.92"	2.69"	**32W277**
Pushbutton Enclosures									
—	1	—	—	—	Plastic	1.98"	2.68"	2.91"	**32W279**
—	1	—	—	—	Die-Cast Aluminum	2.91"	2.68"	2.10"	**32W278**
Contact Block									
1NO, For Use With Mfr. No. 32W265, 32W267, 32W268, 32W271, 32W272, 32W273, 32W278, 32W279									**32W280**
1NC, For Use With Mfr. No. 32W266, 32W267, 32W271, 32W272,32W273 ,32W274,32W275,32W276,32W277, 32W278,32W279									**35V483**

22mm Illuminated Push Buttons—Complete Units

EATON

- NEMA 1, 3, 4X, 12, and 13 rated

These push buttons feature an all-in-one design. They also help you reduce inventory and increase functionality. Maintained push buttons are field-convertible to momentary.

Type of Operator	Contact Form	Legend	Legend/Back Ground Color	IP Rating	120VAC Blue Item No.	120VAC Green Item No.	120VAC Red Item No.	120VAC White Item No.	24VAC/DC Blue Item No.	24VAC/DC Green Item No.	24VAC/DC Red Item No.	24VAC/DC White Item No.
Maintained / Momentary												
Extended Button	1NC	—	—	67, 69K	—	—	20AX66	—	—	—	20AX67	—
Extended Button	1NC	O	White/Red	67, 69K	—	—	20AX68	—	—	—	20AX69	—
Extended Button	1NO	—	—	67, 69K	20AX60	20AX62	—	20AX70	20AX61	20AX63	—	20AX71
Extended Button	1NO	I	Black/Green	67, 69K	—	20AX64	—	—	—	—	—	—
Extended Button	1NO	I	White/Green	67, 69K	—	—	—	—	—	20AX65	—	—
Extended Button	1NO	O	Black/White	67, 69K	—	—	—	20AX72	—	—	—	20AX73
Flush Button	1NC	—	—	67, 69K	—	—	20AX74	—	—	—	20AX75	—
Flush Button	1NC	O	Black/Red	67, 69K	—	—	20AX76	—	—	—	20AX77	—
Flush Button	1NO	—	—	67, 69K	20AX54	20AX56	—	20AX78	20AX55	20AX57	—	20AX79
Flush Button	1NO	I	White/Green	67, 69K	—	20AX58	—	—	—	20AX59	—	—
Flush Button	1NO	I	Black/White	67, 69K	—	—	—	—	—	—	—	20AX81
Flush Button	1NO	O	Black/White	67, 69K	—	—	—	20AX80	—	—	—	—
Maintained												
Extended Button	1NC	—	—	67, 69K	—	—	20AW82	—	—	—	20AW83	—
Extended Button	1NO	—	—	67, 69K	20AY20	20AY22	—	20AW84	20AY21	20AW81	—	20AW85
Flush Button	1NC	—	—	67, 69K	—	—	20AW86	—	—	—	20AW87	—
Flush Button	1NO	—	—	67, 69K	20AY16	20AY18	—	20AW88	20AY17	20AY19	—	20AY31



No. 20AX54



No. 20AW82



No. 20AX39



No. 20AX27

EATON

22mm Nonilluminated Push Buttons—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

These units help you reduce inventory and increase functionality with their all-in-one design.

Legend	Color	Legend/Back Ground Color	IP Rating	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NC Item No.	2NO Item No.
Momentary Push, Extended Button								
I	Green	White/Green	67, 69K	—	20AX33	20AX34	—	20AX35
No Legend	Black	—	67, 69K	20AX42	—	20AX44	20AX43	—
No Legend	Green	—	67, 69K	—	20AX30	20AX31	—	20AX32
No Legend	Red	—	67, 69K	20AX36	—	20AX38	20AX37	—
No Legend	White	—	67, 69K	—	20AX48	20AX49	—	20AX50
O	Black	White/Black	67, 69K	20AX45	—	20AX47	20AX46	—
O	Red	White/Red	67, 69K	20AX39	—	20AX41	20AX40	—
O	White	Black/White	67, 69K	—	20AX51	20AX52	—	20AX53
Momentary Push, Flush Button								
I	Green	White/Green	67, 69K	—	20AX27	20AX28	—	20AX29
No Legend	Green	—	67, 69K	—	20AX24	20AX25	—	20AX26
No Legend	Red	—	67, 69K	20AY13	—	20AY15	20AY14	—
Maintained Push, Extended Button								
I	Green	White/Green	67, 69K	—	20AX91	20AX92	—	20AX93
No Legend	Black	—	67, 69K	20AY01	—	20AY03	20AY02	—
No Legend	Green	—	67, 69K	—	20AX88	20AX89	—	20AX90
No Legend	Red	—	67, 69K	20AX94	—	20AX96	20AX95	—
No Legend	White	—	67, 69K	—	20AY07	20AY08	—	20AY09
O	Black	White/Black	67, 69K	20AY04	—	20AY06	20AY05	—
O	Red	White/Red	67, 69K	20AX97	—	20AX99	20AX98	—
O	White	Black/White	67, 69K	—	20AY10	20AY11	—	20AY12
Maintained Push, Flush Button								
I	Green	White/Green	67, 69K	—	20AX85	20AX86	—	20AX87
No Legend	Black	—	67, 69K	20AY35	—	20AY37	20AY36	—
No Legend	Green	—	67, 69K	—	20AX82	20AX83	—	20AX84
No Legend	No Cap	—	67, 69K	20AY41	20AY43	20AY44	20AY42	20AY45
No Legend	Red	—	67, 69K	20AY32	—	20AY34	20AY33	—
No Legend	White	—	67, 69K	—	20AX38	20AY39	—	20AY40

EATON

22mm LED Pilot Lights—Complete Units

- NEMA 4X and 13

These units combine a durable bright LED unit and modern lenses designed to create a bright and visible indicating light.



No. 20AX11

Voltage	IP Rating	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
Raised Indicator Light						
24VAC/DC	67, 69K	20AW90	20AW92	20AW94	20AW96	20AX11
120VAC	67, 69K	20AW89	20AW91	20AW93	20AW95	20AX10
Raised Indicator Light Without Lens						
24VAC/DC	67, 69K	20AW99	20AX03	20AX06	20AX09	—
120VAC	67, 69K	20AW97	20AX01	20AX04	20AX07	—
230VAC	67, 69K	20AW98	20AX02	20AX05	20AX08	—

EATON

22mm Emergency Stop Push Buttons—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

Durable and reliable solution to a variety of e-stop applications. They help eliminate the need for self-monitoring contact blocks.



No. 20AX20



No. 20AX12

Type of Operator	Includes	IP Rating	1NO/1NC Item No.	2NC Item No.
Maintained Push / Turn To Release				
45mm Mushroom Head	—	67, 69K	20AX21	20AX20
60mm Mushroom Head	—	67, 69K	20AX23	20AX22
Maintained Push / Key Release				
45mm Mushroom Head	MS1 Coded Key	66	20AX13	20AX12
45mm Mushroom Head	MS2 Coded Key	66	20AX15	20AX14
60mm Mushroom Head	MS1 Coded Key	66	20AX17	20AX16
60mm Mushroom Head	MS2 Coded Key	66	20AX19	20AX18

22mm Selector Switches—Complete Units

EATON

- NEMA 1, 3, 4X, 12, and 13 rated

These switches are rated for 1 million mechanical operations. Field-convertible from momentary to maintained, and maintained to momentary.

Position	Type of Operator	Key Removal	Bezel Color	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	IP Rating	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NC Item No.	2NO Item No.
Maintained / Momentary												
2	Knob with 60° Rotation	No Key	Silver	X	X	—	65	20AY54	20AY56	20AY57	20AY55	20AY58
2	Knob with 40° Rotation	No Key	Silver	X	X	—	65	20AY49	20AY51	20AY52	20AY50	20AY53
2	Keyed, Number MS1	Left	Silver	X	X	—	65	20AY93	20AY95	20AY96	20AY94	20AY97
Maintained / Maintained												
2	Knob with 60° Rotation	No Key	Silver	X	X	—	65	20AY67	20AY69	20AY70	20AY68	20AY71
2	Knob with 40° Rotation	No Key	Silver	X	X	—	65	20AY62	20AY64	20AY65	20AY63	20AY66
2	Keyed, Number MS2	Left and Right	Silver	X	X	—	65	20AY85	20AY87	20AY88	20AY86	20AY89
2	Keyed, Number MS1	Left	Silver	X	X	—	65	20AY75	20AY77	20AY78	20AY76	20AY79
2	Keyed, Number MS1	Left and Right	Silver	X	X	—	65	20AY80	20AY82	20AY83	20AY81	20AY84
Momentary / Maintained / Momentary												
3	Knob with 40° Rotation	No Key	Silver	XO	OO	OX	65	—	—	20AY47	20AY46	20AY48
3	Keyed, Number MS1	Center	Silver	XO	OO	OX	65	—	—	20AY91	20AY90	20AY92
Maintained / Maintained / Maintained												
3	Knob with 40° Rotation	No Key	Silver	XO	OO	OX	65	20AY59	—	20AY60	—	20AY61
3	Keyed, Number MS1	No Key	Silver	XO	OO	OX	65	20AY72	—	20AY73	—	20AY74



No. 20AY47



No. 20AY73

SIEMENS
22mm LED Illuminated Push Buttons—Complete Units

- Flush button operator
- Contact rating 10A @ 600VAC, 5A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action

Include 1NO/1NC contact block. UL Listed, CSA and CE Certified.



No. 411K24

Voltage	Basic Material	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Nickel Plated Brass and Zinc Die Cast Bezel						
24VAC/DC	Metal	411K65	411K25	411K24	411K26	411K64
120VAC	Metal	411K69	411K68	411K66	411K70	411K67
Plastic Bezel						
24VAC/DC	Plastic	411K44	411K31	411K30	411K32	411K43
120VAC	Plastic	411K48	411K47	411K45	411K49	411K46



No. 411J10



No. 411H64



No. 411K08

SIEMENS
22mm Illuminated Push Buttons

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Action	Basic Material	Amber Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.
Nickel Plated Brass and Zinc Die Cast Bezel							
Extended Button	Momentary	Metal	411J07	411J10	411J09	411J08	411J11
Flush Button	Momentary	Metal	411H99	411J03	411J02	411J01	411J04
Flush Button	Maintained	Metal	—	411J39	411J38	411J37	411J40
Polyamide Bezel							
40mm Mushroom Head	Maintained	Plastic	—	—	—	411K08	—
Extended Button	Momentary	Plastic	—	411H82	411H81	411H80	—
Flush Button	Momentary	Plastic	411H62	411H65	411H64	411H63	411H66
Flush Button	Maintained	Plastic	—	411J23	411J22	411J21	411J24



No. 411K09



No. 411H97

SIEMENS
22mm Selector Switches—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Action	Type of Operator	Key Removal	Basic Material	Position	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Item No.
Illuminated Selector Switch Operator								
Maintained / Maintained / Maintained	Lever	—	Plastic	3	X	O	X	411H98
Key-Operated Switch								
Maintained / Maintained	Keyed	All Positions	Metal	2	X	O	—	411K11
Maintained / Maintained / Maintained	Keyed	Right	Plastic	3	X	O	X	411K07
	Keyed	Center and Right	Metal	3	X	O	X	411K09
Maintained / Maintained / Momentary	Keyed	Left/Center	Metal	3	X	O	X	411K10
Non-Illuminated Selector Switch Operator								
Maintained / Maintained	Keyed	Any Position	Metal	2	O	X	—	411K03
	Keyed	Left	Metal	2	O	X	—	411K04
	Keyed	Left	Metal	2	O	X	—	411K12
	Keyed	Right	Metal	2	O	X	—	411K13
Maintained / Maintained / Maintained	Lever	No Key	Plastic	3	X	O	X	411H97
	Keyed	Left	Metal	3	X	O	X	411K06
	Keyed	Left	Metal	3	X	O	X	411K15
	Keyed	Right	Metal	3	X	O	X	411K16
Maintained / Maintained / Momentary	Lever	No Key	Plastic	3	X	O	X	411J28
Maintained / Momentary	Lever	No Key	Plastic	2	X	O	—	411J25
	Keyed	Left	Metal	2	O	X	—	411K05
	Keyed	Left	Metal	2	O	X	—	411K14
Momentary / Maintained / Maintained	Lever	No Key	Plastic	3	X	O	X	411J27
Momentary / Maintained / Momentary	Lever	No Key	Plastic	3	X	O	X	411J26



No. 411J99



No. 411K34

SIEMENS
22mm Selector Switches

- 10A @ 600VAC, 1A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Position	Contact Form	Key Removal	Basic Material	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Item No.
Maintained / Maintained								
Keyed	2	1NO	Any Position	Plastic	O	X	—	411J98
Keyed	2	1NO	Any Position	Metal	O	X	—	411J99
Keyed	2	1NO/1NC	Any Position	Plastic	XO	OX	—	411K35
Keyed	2	1NO/1NC	Any Position	Metal	XO	OX	—	411K63
Lever	2	1NO	No Key	Plastic	O	X	—	411J56
Lever	2	1NO/1NC	No Key	Metal	XO	OX	—	411K60
Maintained / Maintained / Maintained								
Keyed	3	2NO	Any Position	Plastic	XX	OO	XX	411K01
Lever	3	2NO	No Key	Plastic	XX	OO	XX	411J62
Lever	3	2NO/2NC	No Key	Plastic	XOXO	OXOX	XOXO	411K34
Lever	3	2NO/2NC	No Key	Metal	XOXO	OXOX	XOXO	411K61
Momentary / Maintained / Momentary								
Lever	3	2NO	No Key	Plastic	XX	OO	XX	411J73
Lever	3	2NO/2NC	No Key	Plastic	XOXO	OXOX	XOXO	411K42
Lever	3	2NO/2NC	No Key	Metal	XOXO	OXOX	XOXO	411K62

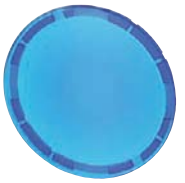
SIEMENS
Push Button Cap

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12 UL Listed, CSA and CE Certified.

No. 411H41



No. 411H51



For Use With	Connec. Type	Black Item No.	Blue Item No.	Clear Item No.	Color Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Non-Illuminated								
Siemens Flat Push Button 3SU1 Series	Snap On	411H45	411H39	—	411H41	411H42	411H46	411H44
Illuminated								
Siemens Raised Push Button 3SU1 Series	Snap On	—	411H27	—	411H28	411H29	—	411H30
Siemens Flat Push Button 3SU1 Series	Snap On	—	411H51	411H40	411H47	411H48	411H43	411H49

No. 411J66



SIEMENS
22mm Lamp Modules

UL Listed, CSA and CE Certified.

Lamp Module Voltage	Mfr. Model	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
LED						
24VAC/DC	3SU1401-1BB	411J77	411J76	411J75	411J78	411J74
120VAC	3SU1401-1BC	411J66	411J65	411J64	411J67	411J63
240VAC	3SU1401-1BF	411J71	411J70	411J69	411J72	411J68

No. 411K56



No. 411K28



SIEMENS

22mm Nonilluminated Push Buttons—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Action	Basic Material	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Metal Bezel								
Extended Button	Momentary	Zinc Alloy	411K54	411K57	411K56	411K55	—	—
Flush Button	Momentary	Zinc Alloy	411K22	411K52	411K51	411K23	411K53	411K50
Plastic Bezel								
Extended Button	Momentary	Polyamide	411K39	—	—	411K40	—	—
Flush Button	Momentary	Polyamide	411K27	411K37	411K29	411K28	411K38	411K36



No. 411K17



No. 411J32



No. 411H57

SIEMENS

22mm Nonilluminated Push Button Operators

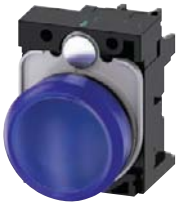
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Basic Material	Black Item No.	Red Item No.
Maintained			
40mm Mushroom Head	Metal	—	411J60
40mm Mushroom Head	Plastic	—	411J51
Maintained / Key Release			
40mm Mushroom Head CES SSG10 Key	Metal	—	411K17
40mm Mushroom Head Ronis SB30 Key	Metal	—	411K02
40mm Mushroom Head Ronis SB30 Key	Plastic	—	411J97
Maintained / Trigger Action / Turn to Release			
40mm Mushroom Head	Metal	—	411J59
40mm Mushroom Head	Plastic	—	411J50
Momentary			
35mm Mushroom Head	Metal	411J41	411J42
35mm Mushroom Head	Plastic	411J29	411J30
40mm Mushroom Head	Metal	411J43	411J44
40mm Mushroom Head	Plastic	411J31	411J32
60mm Mushroom Head	Metal	411J45	411J46
60mm Mushroom Head	Plastic	411J35	411J36

Type of Operator	Basic Material	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Maintained							
Flush Button	Metal	411J13	411J17	411J16	411J14	411J18	411J15
Flush Button	Plastic	411H91	411H95	411H94	411H92	411H96	411H93
Momentary							
Extended Button	Metal	411H85	411H89	411H88	411H86	411H90	411H87
Extended Button	Plastic	411H74	411H78	411H77	411H75	411H79	411H76
Flush Button	Metal	411H68	411H72	411H71	411H69	411H73	411H70
Flush Button	Plastic	411H53	411H57	411H56	411H54	411H58	411H55

No. 411J82



SIEMENS

22mm LED Pilot Lights

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Voltage	Basic Material	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
24VAC/DC	Polyamide	411J82	411J81	411J79	411J83	411J80
120VAC	Zinc Alloy	411J91	411J90	411J88	—	411J89

SIEMENS

22mm Multihead Operators

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action UL Listed, CSA and CE Certified.

Type of Operator	No. of Heads	Color	Item No.
Illuminated Multi-Head Operator			
(1) Flush Button, (1) Extended Button	2	White/Black	411J53
	2	Green/Red	411J54
	2	Black/White	411J55
(2) Flush Buttons	2	Green/Red	411J52
Non-Illuminated Multihead Operator			
(1) Flush Button, (1) Extended Button	2	Green/Red	411J49
	2	White/Black	411J57
(2) Flush Buttons	2	Green/Red	411J47
	2	White/Black	411J48



No. 411J52

SIEMENS

22mm Emergency Stop Push Button

- 10A @ 600VAC, 1A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Contact Form	Material	Item No.
Maintained Push / Pull		
1NC	Metal	411J87
1NO/1NC	Plastic	411K41
1NO/1NC	Metal	411K58
Maintained Push / Twist		
1NC	Metal	411J86
1NO/1NC	Metal	411K59



No. 411J86

SIEMENS

22mm Joystick Operators—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action

Include contact blocks. UL Listed, CSA and CE Certified.

No. of Directions	Item No.
Polycarbonate Bezel	
2	411K18
4	411K20
Nickel Plated Brass and Zinc Die Cast Bezel	
2	411K19
4	411K21



No. 411K18

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.



- Scan the Item Number
- See Your Price
- Place Your Order. Done





22mm Illuminated Push Buttons—Complete Units

Schneider Electric

- LED
- Momentary operation
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with contact block, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

▶CHOOSE: Type of Operator	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Color	Basic Material	Item No.
Round Button; Round Guarded Button	24VAC/DC; 120VAC	Red; Green; Blue; Yellow; White	Metal	**H6941**



Chrome/Full Guard



Plastic/Full Guard

22mm Nonilluminated Push Buttons—Complete Units

Schneider Electric

- Momentary action
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with contact block, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

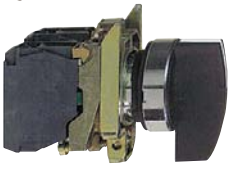
▶CHOOSE: Type of Operator	▶CHOOSE: Head Material	▶CHOOSE: Color	Contact Form	Legend	Item No.
Flush Button	Plastic, Metal	Black, Green, Yellow, Blue	1NO	No Legend	**H7077**
Flush Button	Plastic, Metal	Black, Green, Red, Yellow	1NO/1NC	No Legend	**H7079**
Flush Button	Plastic, Metal	Green	1NO	I	**H7075**
Flush Button	Plastic, Metal	Red	1NC	O	**H7075**
Flush Button, Extended Button	Plastic, Metal	Red	1NC	No Legend	**H7076**
40mm Mushroom Head	Plastic	Black	1NO	No Legend	**6HL41**
40mm Mushroom Head	Metal	Black	1NO	No Legend	**6HK58**



Keyed Lever



Standard Lever



Extended Lever

22mm Selector Switches—Complete Units

Schneider Electric

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Complete with contact block for fast, easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

Position	Type of Operator	Key Removal	Contact Form	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	IP Rating	PLASTIC Item No.	METAL Item No.
Maintained / Momentary									
2	Keyed	Left	1NO	O	X	—	65	—	**6HK66**
Maintained / Maintained									
2	Keyed	Left	1NO	O	X	—	65	**2UZC7**	**6HK63**
2	Keyed	Left/Right	1NO	O	X	—	65	**6HL48**	**6HK65**
2	Lever	No Key	1NO	O	X	—	65	**6HL42**	**6HK59**
2	Extended Lever	No Key	1NO	O	X	—	65	**2UZC8**	**6HK67**
Momentary / Maintained / Momentary									
3	Lever	No Key	2NO	XO	OO	OX	65	**2UZD1**	**6HK61**
3	Extended Lever	No Key	2NO	XO	OO	OX	65	**2UZD2**	**6HK69**
Maintained / Maintained / Maintained									
3	Keyed	Any Position	2NO	XO	OO	OX	65	**6HL45**	**6HK62**
3	Keyed	Center	2NO	XO	OO	OX	65	**6HL47**	**6HK64**
3	Lever	No Key	2NO	XO	OO	OX	65	**2UZD3**	**6HK60**
3	Extended Lever	No Key	2NO	XO	OO	OX	65	**6HL51**	**6HK68**
Selector Switch Key									
For Use With Schneider XB4 and XB5 Series Selector Switches								—	**6HZ23**

Schneider Electric

No. 6HM22



22mm Chrome Joystick Controllers—Complete Units

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

1-step, 1NO contact per direction. Complete with contact block for fast, easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

Action	No. of Directions	Bezel	Item No.
Momentary	2	Chromium Plated Metal	**6HM17**
	4	Plastic	**6HM22**
	4	Chromium Plated Metal	**6HM18**
Maintained	2	Plastic	**6HM19**
	2	Chromium Plated Metal	**6HM15**
	4	Chromium Plated Metal	**6HM16**

Schneider Electric

No. 6HK93



22mm LED Pilot Lights—Complete Units

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with lamp module, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

	PLASTIC				METAL			
Voltage	White Item No.	Green Item No.	Red Item No.	Yellow Item No.	White Item No.	Green Item No.	Red Item No.	Yellow Item No.
24VAC	**2UZC1**	**2UZC3**	**2UZC4**	**2UZC5**	**6HK91**	**6HK92**	**6HK93**	**6HK94**
110 to 120VAC	**2UZC2**	**6HL81**	**6HL82**	**2UZC6**	**6HK96**	**6HK97**	**6HK98**	**6HK99**



Chrome Flush



Chrome Extended



Base No. 6HR01



Base No. 6HW41

22mm Illuminated Push Buttons and Incandescent BA9s Modules

Schneider Electric

- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

A complete push button requires an operator, mounting base, contact block, and incandescent module. Some lamps sold separately, see page 246. UL Listed, CSA Certified, and CE Certified.

Type of Operator	Action	PLASTIC, ZB5 SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.	CHROME, ZB4 SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.
Illuminated Push Button Operators											
Flush Button	Momentary	**6HW94**	**6HW96**	**6HW98**	**6HX01**	**6HX03**	**6HR55**	**6HR57**	**6HR59**	**6HR61**	**6HR63**
Extended Button	Momentary	**6HW84**	**6HW86**	**6HW88**	—	**6HW91**	**6HR45**	**6HR47**	**6HR48**	**6HR50**	**6HR52**

Description	Voltage	1NO Item No.	1NC Item No.	2NO Item No.	1NO/1NC Item No.
Mounting Base, Contact Block, and Incandescent Module, For Use with Plastic, ZB5 Series Operators					
Lamp Module and Contact Block, Includes 6V Lamp	120VAC	**6HW37**	—	—	**6HW38**
Lamp Module and Contact Block, Includes 6V Lamp	240VAC	—	—	—	**6HW39**
Lamp Module and Contact Block (Lamp Required)	Max. 250V	**6HW40**	**6HW41**	**6HW42**	**6HW43**
Mounting Base, Contact Block, and Incandescent Module, For Use with Chrome, ZB4 Series Operators					
Lamp Module and Contact Block, Includes 6V Lamp	120VAC	**6HP98**	—	—	**6HP99**
Lamp Module and Contact Block (Lamp Required)	Max. 250V	**6HR01**	**6HR02**	**6HR03**	**6HR04**

22mm Illuminated Push Buttons and LED Modules

Schneider Electric

- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

A complete push button requires an operator, mounting base, contact block, and LED module. UL Listed, CSA Certified, and CE Certified.


Chrome Flush


Chrome Extended


Chrome Booted

Type of Operator	Action	PLASTIC, ZB5A SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.	CHROME, ZB4 SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.
Illuminated Push Button Operators											
Flush Button	Momentary	6HW95	6HW97	6HW99	6HX02	6HX04	6HR56	6HR58	6HR60	6HR62	6HR64
Flush Booted Button	Momentary	6HX06	6HX07	6HX08	6HX09	6HX10	6HR66	6HR67	6HR68	6HR69	6HR70
Extended Button	Momentary	6HW85	6HW87	6HW89	6HW90	6HW92	6HR46	—	6HR49	6HR51	6HR53
Flush Button	Maintained	6HT96	6HT99	6HV02	6HV04	6HV06	6HN59	6HN62	6HN64	6HN66	6HN68
Extended Button	Maintained	6HV08	6HV11	6HV13	6HV15	6HV17	6HN70	6HN73	6HN75	6HN77	6HN79


Base No. 6HW48


Base No. 6HR08

Voltage	Contact Form	PLASTIC, ZB5 SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.	CHROME, ZB4 SERIES White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.
Mounting Base, Contact Block, and LED Module											
24VAC/DC	1NC	—	6HW49	6HW53	6HW57	—	—	—	6HR14	—	—
24VAC/DC	1NO	6HW44	6HW48	6HW52	6HW56	6HW60	6HR05	6HR09	6HR13	6HR17	6HR21
24VAC/DC	1NO/1NC	6HW47	6HW51	6HW55	6HW59	6HW63	6HR08	6HR12	6HR16	6HR20	6HR24
24VAC/DC	2NO	6HW46	6HW50	6HW54	—	6HW62	6HR07	6HR11	6HR15	6HR19	—
120VAC	1NC	6HW65	6HW69	6HW73	—	—	6HR26	6HR30	6HR34	—	—
120VAC	1NO	6HW64	6HW68	6HW72	6HW76	6HW80	6HR25	6HR29	6HR33	6HR37	6HR41
120VAC	1NO/1NC	6HW67	6HW71	6HW75	6HW79	6HW83	6HR28	6HR32	6HR36	6HR40	6HR44
120VAC	2NO	6HW66	6HW70	6HW74	6HW78	—	6HR27	6HR31	6HR35	6HR39	—

22mm Nonilluminated Push Buttons

Schneider Electric

- No-notch mounting
- NEMA rated: 1, 2, 3, 4, 4X, 12, and 13

Plastic models are for applications that require chemical resistance and/or double electrical insulation. Contact blocks sold separately, see page 246. UL Listed, CSA Certified, and CE Certified.


Toggle


Booted


Extended Guard


Full Guard


No Guard


40mm Push-Pull


30mm Turn-to-Release


60mm Turn-to-Release

▶CHOOSE: Type of Operator	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Maintained			
2-Position Toggle Switch	Plastic, Metal	Black	H7004
Maintained Push			
Extended Button, Flush Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow	H6990
Maintained Push / Maintained Pull			
30mm Dia. Mushroom Head	Plastic	Black	H7020
40mm Mushroom Head	Plastic, Metal	Black, Blue, Green	H6954
40mm Mushroom Head	Plastic, Metal	Red	H6977
60mm Mushroom Head	Plastic, Metal	Black	H6976
Maintained Push / Turn To Release			
30mm Dia. Mushroom Head	Plastic, Metal	Black	H6981
40mm Mushroom Head	Plastic, Metal	Black, Yellow	H6982
40mm Mushroom Head	Plastic, Metal	Red	H6983
60mm Mushroom Head	Plastic, Metal	Black	H6984

▶CHOOSE: Type of Operator	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary Push			
2-Position Toggle Switch	Plastic, Metal	Black	H7005
30mm Dia. Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	H6951
40mm Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	H6952
60mm Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	H6953
Booted Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow	H6995
Extended Button, Flush Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow, Multi	H6993
Recessed Button	Metal	Black, Blue, Green, Red, White, Yellow	H6999

Type of Operator	Legend	Legend/Back Ground Color	PLASTIC Item No.	METAL Item No.
Non-Illuminated Multihead Operator				
(2) Flush Buttons, (1) Extended Button	Left Arrow/Right Arrow/Stop	White/Green, White/Red	—	48K701
(2) Flush Buttons, (1) Extended Button	Up Arrow/Down Arrow/Stop	White/Green, White/Red	48K818	48K702
(2) Flush Buttons, (1) Extended Button	+/-/Stop	White/Green, White/Red	—	48K703
(2) Flush Buttons, (1) Extended Button	Blank/Blank/Stop	Black/Red	—	48K707
(2) Flush Buttons, (1) Extended Button	+/-/Stop	White/Green, White/Red	—	48K752
(2) Flush Buttons, (1) Extended Button	Up Arrow/Down Arrow/Stop	White/Green, White/Red	—	48K753
(2) Flush Buttons, (1) Extended Button	Blank/Blank/Stop	Black/Red	—	48K756
(2) Flush Buttons	I/O	Black/White, White/Black	23V775	23V768
(2) Flush Buttons	No Legend	White/Black	23V774	6UDN2
(2) Flush Buttons	No Legend	Green/Red	6XTG3	6UDN3
(2) Flush Buttons	I/O	White/Green, White/Red	6XTG4	6UDN4
(2) Flush Buttons	No Legend	Black	48K824	—
(1) Flush Button, (1) Extended Button	No Legend	Green/Red	23V780	—
(1) Flush Button, (1) Extended Button	No Legend	White/Green, White/Red	—	6UDN5
(1) Flush Button, (1) Extended Button	I/O	White/Green, White/Red	6XTG5	6UDN6
Multihead Operators with Contacts				
(2) Flush Buttons	I/O	White/Green, White/Red	—	48K767 *
(1) Flush Button, (1) Extended Button	I/O	White/Green, White/Red	6UDN1 *	6UDN0 *
Illuminated Multi-Head Operator				
(2) Flush Buttons, (1) Light	Blank	Black	48K777	—
(2) Flush Buttons, (1) Light	Up Arrow/Down Arrow	Black/White, White/Black	48K775	48K656
(2) Flush Buttons, (1) Light	+/-	Black/White	48K776	48K657
(2) Flush Buttons, (1) Extended Button	Up Arrow/Down Arrow/Stop	Black/White, Red/White	—	48K751
(2) Flush Buttons, (1) Extended Button	Up Arrow/Down Arrow/Stop	White/Black, Black/White, White/Red	48K821	48K754
(2) Flush Buttons, (1) Extended Button	+/-/Stop	Black/White, White/Red	48K822	48K755
(2) Flush Buttons, (1) Extended Button	+/-/Stop	White/Green, White/Red	48K819	—
(2) Flush Buttons, (1) Extended Button	Up Arrow/Down Arrow/Stop	White/Green, White/Red	48K820	—
(2) Flush Buttons, (1) Extended Button	Stop	White/Red	48K823	—
(2) Flush Buttons	Blank	Black	—	48K714
(2) Flush Buttons	I/O	White/Green, White/Red	—	48K713
(2) Flush Buttons	Blank	Black	—	48K757
(2) Flush Buttons	I/O	Black/White, White/Black	—	48K711
(2) Flush Buttons	I/O	White/Green, White/Red	6XTG6	6XTG0
(2) Flush Buttons	I/O	Black/White, White/Black	23V782	23V772
(2) Flush Buttons	No Legend	Black/White, White/Black	23V781	—
(2) Flush Buttons	No Legend	White/Green, White/Red	23V783	6UDN7
(2) Flush Buttons	No Legend	White/Green, White/Red	—	23V771
(2) Flush Buttons	I/O	White/Black, Black/White	—	48K712
(1) Flush Button, (1) Extended Button	I/O	White/Green, White/Red	—	48K710
(1) Flush Button, (1) Extended Button	No Legend	White/Green, White/Red	23V784	6XTG1
(1) Flush Button, (1) Extended Button	I/O	White/Green, White/Red	6XTG7	6XTG2

** Includes 1NO/1NC contact block.*


No. 6UDN2


No. 6UDN0

Schneider Electric

22mm 2-Head Momentary Push Buttons

- NEMA rated: 1, 2, 3, 4, 4X, 12, and 13
- IP66 and 69K

For contact blocks and lamp modules see page 246; both sold separately. UL Listed, CSA Certified, and CE Certified.


Standard Plastic


Keyed Chrome


Extended Chrome


Illuminated Chrome

Schneider Electric

22mm Selector Switches

Choose 1 selector switch and a contact block sold separately, depending on the action required (see selector codes, this page).

Keyed selector switches are keyed alike. An illuminated switch requires a lamp module and base assembly, sold separately, see page 245. UL Listed, CSA Certified, and CE Certified.

Desired Contact Configuration L	R	Mounting Position Plastic L	Plastic R	Chrome L	Chrome R	Wiring Directions 2-Position Selector Switches
Off	On	—	6HX27	—	6HR88	Wire Individually
On	Off	6HX29	—	6HR88	—	Wire Individually
On	On	6HX27	6HZ09	6HR88	6HZ09	Wire Individually

Desired Contact Configuration L	C	R	Mounting Position Plastic L	Plastic R	Chrome L	Chrome R	Wiring Directions 3-Position Selector Switches
On	Off	On	6HX27	6HZ06	6HR88	6HZ06	Wire Individually
Off	On	Off	6HX29	6HZ09	6HR90	6HZ09	Wire in Series
Off	Off	On	—	6HX27	—	6HR88	Wire Individually
On	Off	Off	6HX27	—	6HR88	—	Wire Individually
On	On	Off	6HX35	6HZ09	6HR96	6HZ09	Wire NO individually; NC in series

Position	Type of Operator	Action*	Operator Color	Key Removal	PLASTIC Mfr. Model	PLASTIC Item No.	METAL Mfr. Model	METAL Item No.
Non-Illuminated Operator								
2	Lever	M / M	Black	No Key	ZB5AD2	**6HT55**	ZB4BD2	**6HN36**
3	Lever	M / M / M	Black	No Key	ZB5AD3	**6HT60**	ZB4BD3	**6HN38**
3	Lever	M / M / S	Black	No Key	ZB5AD8	**6HT77**	ZB4BD8	**6HN43**
2	Lever	M / S	Black	No Key	ZB5AD4	**6HT64**	ZB4BD4	**6HN39**
3	Lever	S / M / M	Black	No Key	ZB5AD7	**6HT73**	ZB4BD7	**6HN42**
3	Lever	S / M / S	Black	No Key	ZB5AD5	**6HT69**	ZB4BD5	**6HN41**
2	Keyed	M / M	Black	Left	ZB5AG2	**6HT87**	ZB4BG2	**6HN50**
2	Keyed	M / M	Black	Left and Right	ZB5AG4	**6HT89**	ZB4BG4	**6HN52**
3	Keyed	M / M / M	Black	Any Position	ZB5AG0	**6HT83**	ZB4BG0	**6HN46**
3	Keyed	M / M / M	Black	Center	ZB5AG3	**6HT88**	ZB4BG3	**6HN51**
3	Keyed	M / M / M	Black	Left	ZB5AG9	**2UYW5**	ZB4BG9	**6HN57**
3	Keyed	M / M / M	Black	Left/Right	ZB5AG5	**2UYW7**	ZB4BG5	**6HN53**
3	Keyed	M / M / M	Black	Right	ZB5AG09	**2UYW6**	ZB4BG09	**6HN48**
3	Keyed	M / M / S	Black	Center	ZB5AG8	**2UYW8**	ZB4BG8	**6HN56**
3	Keyed	M / M / S	Black	Left	ZB5AG08	**2UYW9**	ZB4BG08	**6HN47**
2	Keyed	M / S	Black	Left	ZB5AG6	**6HT91**	ZB4BG6	**6HN54**
3	Keyed	S / M / M	Black	Right	ZB5AG1	**6HT86**	ZB4BG1	**6HN49**
3	Keyed	S / M / S	Black	Center	ZB5AG7	**6HT92**	ZB4BG7	**6HN55**
2	Extended Lever	M / M	Black	No Key	ZB5AJ2	**6HV18**	ZB4BJ2	**6HN80**
3	Extended Lever	M / M / M	Black	No Key	ZB5AJ3	**6HV19**	ZB4BJ3	**6HN81**
3	Extended Lever	M / M / S	Black	No Key	ZB5AJ8	**6HV23**	ZB4BJ8	**6HN85**
2	Extended Lever	M / S	Black	No Key	ZB5AJ4	**6HV20**	ZB4BJ4	**6HN82**
3	Extended Lever	S / M / M	Black	No Key	ZB5AJ7	**6HV22**	ZB4BJ7	**6HN84**
3	Extended Lever	S / M / S	Black	No Key	ZB5AJ5	**6HV21**	ZB4BJ5	**6HN83**
Illuminated Operator (Order Lamp Modules Separately)								
2	Lever	M / M	Green	—	ZB5AK1233	**6HV25**	ZB4BK1233	**6HN87**
2	Lever	M / M	Red	—	ZB5AK1243	**6HV26**	ZB4BK1243	**6HN88**
2	Lever	M / M	Yellow	—	ZB5AK1253	**6HV27**	ZB4BK1253	**6HN89**
3	Lever	M / M / M	Green	—	ZB5AK1333	**6HV30**	ZB4BK1333	**6HN92**
3	Lever	M / M / M	Red	—	ZB5AK1343	**6HV31**	ZB4BK1343	**6HN93**
3	Lever	M / M / M	Yellow	—	ZB5AK1353	**6HV32**	ZB4BK1353	**6HN94**
3	Lever	M / M / S	Red	—	ZB5AK1843	**2UYX1**	ZB4BK1843	**6HP14**
3	Lever	M / M / S	Yellow	—	ZB5AK1853	**2UYX3**	ZB4BK1853	**6HP15**
3	Lever	M / M / S	Green	—	ZB5AK1833	**6HV50**	ZB4BK1833	**6HP13**
2	Lever	M / S	Red	—	—	—	ZB4BK1443	**6HN98**
2	Lever	M / S	Yellow	—	—	—	ZB4BK1453	**6HN99**
2	Lever	M / S	Green	—	ZB5AK1433	**6HV35**	ZB4BK1433	**6HN97**
3	Lever	S / M / M	Green	—	ZB5AK1733	**6HV45**	ZB4BK1733	**6HP08**
3	Lever	S / M / M	Yellow	—	—	—	ZB4BK1753	**6HP10**
3	Lever	S / M / S	Red	—	ZB5AK1543	**6HV41**	ZB4BK1543	**6HP04**
3	Lever	S / M / S	Orange	—	—	—	ZB4BK1553	**6HP05**
3	Lever	S / M / S	Green	—	ZB5AK1533	**6HV40**	ZB4BK1533	**6HP03**
3	Lever	S / M / S	Yellow	—	ZB5AK1553	**6HV42**	—	—

**** M=maintained contact, S=spring return momentary contact.***

LumaPro

Replacement Lamps for 22mm Illuminated Operators

- Incandescent
- T3-1/4 bulb shape
- Miniature bayonet base
- Fits BA9 style modules

Voltage	Trade No.	Item No.
6	6VMB-1	**4VDX9**
12	12VMB-1	**4VDY1**
24	24VMB-1	**4VDY2**
130	130VMB-1, Functional Equivalent to C949-99	**4VDY3**
240	240V/MB-1	**5GED5**


No. 4VDY2


Plastic


Chrome



Light Module (Quick-Connect Terminals)


Light Module (Screw Terminals)

Schneider Electric

22mm LED Pilot Lights

- NEMA 1, 2, 3, 4, 4X, 12 and 13 rated

A complete pilot light consists of a head and light module with mounting base. UL Listed, CSA Certified, and CE Certified.

Material	Lamp Module Voltage	WHITE Item No.	GREEN Item No.	RED Item No.	YELLOW Item No.	BLUE Item No.
Pilot Light Head						
Plastic	—	**6HW15**	**6HW17**	**6HW19**	**6HW21**	**6HW23**
Chrome	—	**6HP75**	**6HP77**	**6HP79**	**6HP81**	**6HP83**
Pilot Light Lens						
Plastic	—	—	**6YEN8**	**6YEP0**	—	—
Lamp Module With Bulb						
Chrome	24 to 120VAC/DC	**2UYY2**	**2UYY3**	**2UYY4**	**2UYY5**	**2UYY6**
Chrome	24VAC/DC	**6HP88**	**6HP89**	**6HP90**	**6HP91**	**6HP92**
Plastic	24VAC/DC	**6HT43**	**6HW28**	**6HW29**	**6HW30**	**6HW31**
Chrome	120VAC	**6HP93**	**6HP94**	**6HP95**	**6HP96**	**6HP97**
Plastic	120VAC	**6HW32**	**6HW33**	**6HW34**	**6HW35**	**6HW36**



No. 6HZ06


No. 6HR88


No. 6HX27

Schneider Electric

Contact Blocks for 22mm Operators

- Rated 10A continuous

Description	Base Only Item No.	1NO Item No.	1NC Item No.	2NO Item No.	2NC Item No.	1NC/1NO Item No.
Add On Block For ZB4 and ZB5 Operators	—	**6HZ06**	**6HZ09**	**6HZ12**	**6HZ13**	**6HZ14**
Contact Block with Mounting Base for Chrome ZB4 Operators	—	**6HR88**	**6HR90**	**6HR92**	**6HR94**	**6HR96**
Contact Block with Mounting Base for Plastic ZB5 Operators	—	**6HX27**	**6HX29**	**6HX31**	**6HX33**	**6HX35**
Metal Mounting Base For ZB4	**6HR86**	—	—	—	—	—
Plastic Mounting Base For ZB5 and Plug In Connectors	**6HX25**	**6HX28**	—	—	—	—

22mm Nonilluminated Selector Switches

Black knob. Keyed operators are keyed alike. Contact blocks sold separately, this page. UL Listed and CSA Certified.

Position	Action	Bezel Material	Key Removal	Cam	Mfr. Model	Item No.	
Knob							
2	Maintained / Maintained	Metal	No Key	D	P9CSMD0N	**6AMK8**	
2	Maintained / Maintained	Metal	No Key	D	P9MSMD0N	**6AMN0**	
2	Maintained / Maintained	Metal	No Key	I	P9MSMI0N	**6AMN1**	*
2	Maintained / Maintained	Plastic	No Key	D	P9XSMD0N	**49A829**	
3	Maintained / Maintained / Maintained	Metal	No Key	Z	P9CSMZ0N	**6AMK9**	
3	Momentary / Maintained / Momentary	Metal	No Key	Z	P9MSMZ3N	**6AMN2**	
3	Momentary / Maintained / Momentary	Metal	No Key	Z	P9MSMZ5N	**6AMN3**	
3	Maintained / Maintained / Maintained	Plastic	No Key	Z	P9XSMZ0N	**49A831**	
4	Maintained / Maintained / Maintained / Maintained	Metal	No Key	X	P9CSMX0N	**49A832**	
4	Maintained / Maintained / Maintained / Maintained	Plastic	No Key	X	P9XSMX0N	**49A833**	
Keyed							
2	Maintained / Maintained	Metal	Left and Right	D	P9CSCD0K95	**6AMK7**	
2	Maintained / Maintained	Metal	Left	D	P9XSCD0A95	**6AMP5**	
3	Momentary / Maintained / Maintained	Plastic	Left	Z	P9XSCZ5A95	**6AMP6**	

**** Operates from center to right, 45° travel.***



No. 49A829

22mm Illuminated Push-Button Operators

- LED lamp modules
- NEMA rated 1, 3, 3R, 4, 4X, 12, and 13
- Type C-2000

Round shape. Contact Blocks and Lamp Modules available separately. UL Listed and CSA Certified.

Type of Operator	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary				
No Guard	120VAC, 24VAC/DC	Plastic, Metal	Red, Green, Yellow, Blue, White, Orange	**H7058**
40mm Mushroom Head	120VAC, 24VAC/DC	Plastic, Metal	Red, Green, Yellow, Blue, White, Orange	**H7057**
Maintained Push / Pull				
40mm Mushroom Head	120VAC, 24VAC/DC	Plastic, Metal	Red, Green, Yellow, Blue, White, Orange	**H7056**
40mm Mushroom Head	Module Not Included	Plastic	Red	**6AMP2**
40mm Mushroom Head	Module Not Included	Metal	Red	**6AMJ9**



No. H7058



No. 6AMJ9

22mm Nonilluminated Push-Button Operators

- NEMA rated 1, 3, 3R, 4, 4X, 12, and 13
- Type C-2000

Round shape. Contact blocks available separately. UL Listed and CSA Certified.



No. H7001

▶CHOOSE: Type of Operator	▶CHOOSE: Contact Form	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull				
40mm Mushroom Head	—	Metal	Red	**6AMK2**
Momentary Push				
Flush Button, Extended Button	—	Plastic, Metal	Red, Green, Yellow, Blue, White, Black	**H7001**
Flush Button, Extended Button	1NC, 1NO	Plastic, Metal	Red, Green, Yellow, Blue, White, Black	**H7078**
Flush Button, Extended Button	1NO/1NC	Plastic, Metal	Red, Green, Yellow, Blue, White, Black	**H7081**
40mm Mushroom Head	—	Plastic, Metal	Red	**H7016**
Maintained Push / Turn To Release				
40mm Mushroom Head	—	Plastic	Red	**6AMP1**
40mm Mushroom Head	—	Metal	Red	**6AML8**
40mm Mushroom Head	1NC	Plastic	Red	**49A602**
Maintained Push / Maintained Pull				
40mm Mushroom Head	—	Plastic, Metal	Red	**H6979**
Maintained Push / Key Release				
40mm Mushroom Head	—	Metal	Red	**6AMJ7**

No. 6AMJ6



Contact Blocks for 22mm Operators

- 10A, 600V

For use with GE operators. UL Listed and CSA Certified.

Contact Form	Terminal Connec.	Mfr. Model	Item No.
1NC	Screw	P9B01VN	**6AMJ1**
1NC	Quick-Connect	P9B01FN	**6AMJ0**
1NC/1NO	Screw	P9B11VN	**6AMJ6**
1NO	Screw	P9B10VN	**6AMJ5**
1NO	Quick-Connect	P9B10FN	**6AMJ3**
1NO	Quick Connect	P9B10FN-AA	**6AMJ4**
2NC	Screw	P9B02VN	**6AMJ2**
Accessory/Modification Kit			
Printed Circuit Board Adapter, Pkg. of 5		P9ACA6	**6AMH8**

22mm Multihead and Joystick Operators

- Plastic construction
- Momentary operation

Plastic construction. Contact blocks and lamp modules both sold separately. UL Listed and CSA Certified.

Type of Operator	Legend	WHITE/GREEN, WHITE/RED Mfr. Model	WHITE/GREEN, WHITE/RED Item No.	WHITE/BLACK, WHITE/RED Mfr. Model	WHITE/BLACK, WHITE/RED Item No.
Illuminated Multi-Head Operator					
(2) Flush Buttons	No Legend	P9DPLVRG00	**6AML0**	P9DPLNRG00	**49A840**
(2) Flush Buttons	I/O	P9DPLVRG01	**6AML1**	P9DPLNRG01	**49A841**
(1) Flush Button, (1) Extended Button	No Legend	P9DPLVRS00	**49A846**	P9DPLNRS00	**49A842**
(1) Flush Button, (1) Extended Button	I/O	P9DPLVRS01	**49A847**	P9DPLNRS01	**49A843**
Joystick Operator					
5 Positions, 4 Directions	—	—	—	P9XMN4T	**6AMP4**



No. 6AML0



No. 6AMP4

22mm LED Pilot Lights

- NEMA rated 4X

Rated for 100,000-hr. operation. Pilot light heads require lamp modules sold separately at Grainger.com®. All are UL Listed, CSA Certified.



No. 49A805



No. 49A676

Voltage	Lamp Type	PLASTIC Blue Item No.	PLASTIC Green Item No.	PLASTIC Orange Item No.	PLASTIC Red Item No.	PLASTIC White Item No.	PLASTIC Yellow Item No.	METAL Blue Item No.	METAL Green Item No.	METAL Orange Item No.	METAL Red Item No.	METAL White Item No.	METAL Yellow Item No.
Pilot Lights													
24VAC/DC	Refracted LED	**49A710**	**49A708**	**49A712**	**49A707**	**49A711**	**49A709**	**49A704**	**49A702**	**49A706**	**49A701**	**49A705**	**49A703**
24VAC/DC	Diffused LED	**49A685**	**49A683**	**49A687**	**49A682**	**49A686**	**49A684**	**49A679**	**49A677**	**49A681**	**49A676**	**49A680**	**49A678**
120VAC	Refracted LED	**49A722**	**49A720**	**49A724**	**49A719**	**49A723**	**49A721**	**49A716**	**49A714**	**49A718**	**49A713**	**49A717**	**49A715**
120VAC	Diffused LED	**49A697**	**49A695**	**49A699**	**49A694**	**49A698**	**49A696**	**49A691**	**49A689**	**49A693**	**49A688**	**49A692**	**49A690**
Pilot Light Heads (Lamp Module Sold Separately)													
—	LED	**49A813**	**49A823**	**49A815**	**49A822**	**49A814**	**49A824**	**49A807**	**49A805**	**49A809**	**49A804**	**49A808**	**49A806**
—	LED	**49A825**	**49A811**	**49A827**	**49A810**	**49A826**	**49A812**	**49A819**	**49A817**	**49A821**	**49A816**	**49A820**	**49A818**

GA GRAINGER APPROVED

Indicator Lights

Nylon bodies include self-locking ears. For use in machine and equipment control panels.

Note: LED flat versions are available in blue and white on Grainger.com®.



Item	Voltage	Mounting Dia.	Electrical Connection	RED Item No.	YELLOW Item No.	GREEN Item No.
Incandescent, Nylon Body With Polycarbonate Lens and Stainless Steel Bezel						
Flush	12VAC/DC	½"	6" Wire Leads	20C840	—	—
Flush	24VAC/DC	½"	6" Wire Leads	20C841	—	—
Raised	12VAC/DC	½"	6" Wire Leads	20C844	—	—
Raised	24VAC/DC	½"	6" Wire Leads	20C845	20C842 *	20C843
Raised	24VAC/DC	½"	0.187" Tab	20C846	—	—
LED, Brass Plated Chrome, Plastic (ABS)						
Flat	12VDC	6mm	Lead for Soldering	24M032	24M033	24M034
Flat	12VDC	8mm	Male .110 Connector	24M060	24M061	24M062
Flat	12VDC	10mm	Male .110 Connector	24M093	24M094	24M095
Flat	12VDC	12mm	Male .110 Connector	24M127	24M128	24M129
Flat	12VDC	16mm	Male .110 Connector	24M163	24M164	24M165
Flat	24VDC	6mm	Lead for Soldering	24M037	24M038	24M039
Flat	24VDC	8mm	Male .110 Connector	24M065	24M066	24M067
Flat	24VDC	10mm	Male .110 Connector	24M098	24M099	24M101
Flat	24VDC	12mm	Male .110 Connector	24M132	24M133	24M134
Flat	24VDC	16mm	Male .110 Connector	24M168	24M169	24M170
Flat	110VAC	8mm	Male .110 Connector	24M070	24M071	24M072
Flat	110VAC	10mm	Male .110 Connector	24M104	24M105	24M106
Flat	110VAC	12mm	Male .110 Connector	24M137	24M138	24M139
Flat	110VAC	16mm	Male .110 Connector	24M173	24M174	24M175
Protruding	12VDC	6mm	Lead for Soldering	24M026	24M027	24M028
Protruding	12VDC	8mm	Male .110 Connector	24M051	24M052	24M053
Protruding	12VDC	10mm	Male .110 Connector	24M084	24M085	24M086
Protruding	12VDC	12mm	Male .110 Connector	24M118	24M119	24M120
Protruding	12VDC	16mm	Male .110 Connector	24M154	24M155	24M156
Protruding	24VDC	6mm	Lead for Soldering	24M029	24M030	24M031
Protruding	24VDC	8mm	Male .110 Connector	24M054	24M055	24M056
Protruding	24VDC	10mm	Male .110 Connector	24M087	24M088	24M089
Protruding	24VDC	12mm	Male .110 Connector	24M121	24M122	24M123
Protruding	24VDC	16mm	Male .110 Connector	24M157	24M158	24M159
Protruding	110VAC	8mm	Male .110 Connector	24M057	24M058	24M059
Protruding	110VAC	10mm	Male .110 Connector	24M090	24M091	24M092
Protruding	110VAC	12mm	Male .110 Connector	24M124	24M125	24M126
Protruding	110VAC	16mm	Male .110 Connector	24M160	24M161	24M162
Round	12VDC	6mm	Lead for Soldering	24M020	24M021	24M022
Round	12VDC	8mm	Male .110 Connector	24M042	24M043	24M044
Round	12VDC	10mm	Male .110 Connector	24M075	24M076	24M077
Round	12VDC	12mm	Male .110 Connector	24M109	24M110	24M111
Round	12VDC	16mm	Male .110 Connector	24M145	24M146	24M147
Round	24VDC	6mm	Lead for Soldering	24M023	24M024	24M025
Round	24VDC	8mm	Male .110 Connector	24M045	24M046	24M047
Round	24VDC	10mm	Male .110 Connector	24M078	24M079	24M080
Round	24VDC	12mm	Male .110 Connector	24M112	24M113	24M114
Round	24VDC	16mm	Male .110 Connector	24M148	24M149	24M150
Round	110VAC	8mm	Male .110 Connector	24M048	24M049	24M050
Round	110VAC	10mm	Male .110 Connector	24M081	24M082	24M083
Round	110VAC	12mm	Male .110 Connector	24M115	24M116	24M117
Round	110VAC	16mm	Male .110 Connector	24M151	24M152	24M153
Neon, Nylon Body With Polycarbonate Lens						
Miniature Flush	120VAC	5/16"	6" Wire Leads	20C859	20C857 *	20C858
Neon, Nylon Body With Polycarbonate Lens and Stainless Steel Bezel						
Flush	120VAC	½"	6" Wire Leads	20C849	20C847 *	20C848
Raised	120VAC	½"	0.187" Tab	20C855	—	20C852
Raised	120VAC	½"	6" Wire Leads	20C854	20C850 *	20C851
Raised	240VAC	½"	6" Wire Leads	20C856	—	20C853

** Amber color.*

Dayton

LED Indicator Lights

Nylon body with polycarbonate lens. UL Listed.



Voltage	RED Item No.	GREEN Item No.	AMBER Item No.
½" Mounting Dia. Flush, 6" Wire Leads			
12VAC/DC	22NY41	—	—
24VAC/DC	22NY44	—	—
120VAC/DC	22NY49	22NY52	22NY54
½" Mounting Dia. Raised, 0.187" Tab			
24VAC/DC	22NY43	—	—
120VAC/DC	22NY48	22NY51	—
½" Mounting Dia. Raised, 6" Wire Leads			
12VAC/DC	22NY40	—	—
24VAC/DC	22NY42	22NY45	22NY46
120VAC/DC	22NY47	22NY50	22NY53
240VAC/DC	22NY55	22NY56	—
8mm Mounting Dia. Flush, 0.110" Tab			
6VAC/DC	22NY69	22NY68	22NY70
12VAC/DC	22NY72	—	22NY73
24VAC/DC	22NY75	22NY74	22NY76
120VAC/DC	22NY78	22NY77	22NY79
240VAC/DC	22NY81	22NY80	22NY82
12mm Mounting Dia. Raised, M2.5 Screw			
6VAC/DC	22NY84	22NY83	22NY85
12VAC/DC	22NY87	22NY86	22NY88
24VAC/DC	22NY90	22NY89	22NY91
120VAC/DC	22NY93	22NY92	22NY94
240VAC/DC	22NY96	22NY95	22NY97
18mm Mounting Dia. Raised, 0.187" Tab			
120VAC	22NY60	22NY61	22NY63
240VAC	22NY64	22NY65	22NY67
22mm Mounting Dia. Raised, M3.5 Screw			
24VAC/DC	22NZ01	22NY98	22NZ03
120VAC	22NZ06	22NZ04	22NZ08
240VAC	22NZ11	22NZ09	22NZ13

Schneider Electric

Enclosures for 22mm Operators

- Plastic NEMA rated 1, 4X, 12, 13
- Metal NEMA rated 4, 13



No. of Holes	Material	Contact Block Depth	Conduit Size	H	W	D	Item No.
1	Plastic	—	—	2.68"	2.68"	2.00"	6HK19
1	Metal	1.93"	¾"	2.03"	3.15"	3.15"	4B588
1	Metal	2.93"	¾"	3.03"	3.15"	3.15"	4B589
2	Plastic	—	½"	4.10"	2.68"	2.00"	6HK20
2	Metal	1.93"	¾"	2.03"	3.15"	5.12"	4B590
2	Metal	2.93"	¾"	3.03"	3.15"	5.12"	4B591
3	Plastic	—	½"	5.27"	2.68"	2.00"	6HK21
3	Metal	1.93"	¾"	2.03"	3.15"	6.90"	4B592
3	Metal	2.93"	¾"	3.03"	3.15"	6.90"	4B593
4	Plastic	—	½"	6.46"	2.68"	2.00"	6HK22
4	Metal	1.93"	¾"	6.90"	3.15"	2.03"	2UYY7
4	Metal	2.93"	¾"	3.03"	3.15"	8.66"	4B594
5	Plastic	—	½"	7.72"	2.68"	2.00"	6HK23
5	Metal	2.93"	¾"	12.20"	3.35"	3.03"	2UYY8
Contact Blocks and Accessories							
Blanking Plug, Closes 22mm Hole, Gray, Nonmetallic							6HX77
Contact Block, 1NC For Use With Schneider Empty Enclosure							6JC92
Contact Block, 1NO For Use With Schneider Empty Enclosure							6JC91





HUBBELL
WIEGMANN

Oiltight Enclosures for 22mm Operators

- NEMA rated 12 and 13
- JIC Standard EL-1-71

Neoprene gasket and mounting flange ensure oiltight seal. Captive cover screws are threaded into deep-well hubs. Carbon steel with ANSI 61 gray polyester powder-coated finish. Seam welded and ground smooth. Grounding stud included. UL Listed and CSA Certified.

No. of Holes	No. of Columns	H	W	D	Mfr. Model	Item No.
1	1	3.25"	2.75"	3.50"	PBGX1	2VB59
2	1	5.13"	2.75"	3.50"	PBGX2	2VB60
3	1	7.00"	2.75"	3.50"	PBGX3	2VB61
4	1	8.88"	2.75"	3.50"	PBGX4	2VB62
6	2	8.50"	5.00"	4.25"	PBGX6	2VB63
9	3	8.50"	6.50"	4.25"	PBGX9	2VB64





Enclosures for 22mm Operators

Plastic enclosures are made of impact- and corrosion-resistant Valox® crystalline thermoplastic polyester. Molded internal bosses for back panel, component mounting, and DIN rails. Silicone gasket; no hinge. Cover and base meet with tongue-and-groove design for tight seal. Include nonmetallic cover screws. Sheet Steel and 304 Stainless Steel enclosures are wall mountable and for use with C-2000. UL Listed and CSA Certified. Plastic enclosures are rated IP66.

No. of Holes	No. of Columns	H	W	D	Item No.
Plastic					
1	1	4.02"	2.84"	3.31"	2HRW1
2	1	4.69"	2.72"	2.72"	2HRW2
3	1	6.38"	2.84"	3.31"	2HRW3
4	1	8.74"	2.84"	3.31"	2HRW4
6	2	6.65"	4.69"	4.72"	2HRW5
9	3	6.65"	6.65"	4.72"	2HRW6
Sheet Steel					
1	1	5.50"	3.50"	4.25"	6CJW9
2	1	7.75"	3.50"	4.25"	6CJX1
3	1	10.00"	3.50"	4.25"	6CJX3
4	1	13.38"	3.50"	4.25"	6CJX5
304 Stainless Steel					
1	1	5.50"	3.50"	4.25"	6CJY9
2	1	7.75"	3.50"	4.25"	6CJZ1
3	1	10.00"	3.50"	4.25"	6CJZ3
4	1	13.38"	3.50"	4.25"	6CJZ5

NEMA 4X Push-Button Pendant Stations

- NEMA 4X Push-Button Pendant Stations

Ergonomical design for one-handed operation. These stations feature high-impact ABS enclosure, 2-pc. design for easy wiring with shock- and vibration-resistant construction. Ideal for overhead cranes and hoists, conveyor/elevator control, assembly lines, workstations, and monorail control. UL and C-UL Listed.

No. of Operators	Action	No. of Speeds	Mechanical Interlock	1NO Mfr. Model	1NO Item No.	1NO/1NC Mfr. Model	1NO/1NC Item No.
Up/Down Legend							
2	Mom.	1	No	CPC02-C00-000A	**30PL52**	—	—
	Mom.	1	Yes	CPA02-A4C-000A	**30PL73**	—	—
	Mom.	1	Yes	CPE02-C00-000A	**30PL75**	—	—
	Mom.	2	Yes	CPE02-D00-000A	**30PL74**	—	—
User Configurable Legend							
2	Main.	1	No	—	—	CPH02-B00-000A	**30PL54**
	Mom.	1	No	—	—	CPH02-A00-000A	**30PL53**
	Mom.	1	Yes	CPH02-C02-000A	**30PL55**	—	—
	Mom.	2	Yes	CPH02-D00-000A	**30PL56**	—	—
4	Main. / Mom.	1	Yes	—	—	CPH04-B1C-000A	**30PL58**
	Main. / Mom.	2	Yes	—	—	CPH04-B1D-000A	**30PL59**
	Mom. / Mom.	1	Yes	CPH04-C1C-000A	**30PL60**	CPH04-A1C-000A	**30PL57**
	Mom. / Mom.	2	Yes	CPH04-D1D-000A	**30PL61**	—	—
6	Main. / Mom. / Mom.	1	Yes	—	—	CPH06-B2C-000A	**30PL63**
	Main. / Mom. / Mom.	2	Yes	—	—	CPH06-B2D-000A	**30PL65**
	Mom. / Mom. / Mom.	1	Yes	CPH06-C2C-000A	**30PL66**	CPH06-A2C-000A	**30PL62**
	Mom. / Mom. / Mom.	2	Yes	CPH06-D2D-000A	**30PL67**	CPH06-A2D-000A	**30PL64**
8	Main. / Mom. / Mom. / Mom.	1	Yes	—	—	CPH08-B3C-000A	**30PL69**
	Main. / Mom. / Mom. / Mom.	2	Yes	—	—	CPH08-B3D-000A	**30PL71**
	Mom. / Mom. / Mom. / Mom.	1	Yes	—	—	CPH08-A3C-000A	**30PL68**
	Mom. / Mom. / Mom. / Mom.	1	Yes	CPH08-C3C-000A	**30PL72**	—	—
	Mom. / Mom. / Mom. / Mom.	2	Yes	—	—	CPH08-A3D-000A	**30PL70**


No. 30PL75


No. 30PL54


No. 20C813



No. 20C806

Pendant Stations

- 600VAC/DC UL Listed. CSA and CE Certified.

Legend	No. of Operators	Contact Form	Housing Color	NEMA Rating	H	W	D	Item No.
Momentary with Nylon Cord Grip (0.375" to 0.625" Cord dia.)								
Start/Stop	2	1NO/1NC	Yellow	4X	7.56"	1.73"	2.83"	**20C815**
Up/Down	2	2NO	Yellow	4X	7.56"	1.73"	2.83"	**20C814**
Momentary, ½" 14 NPT Entrance								
Forward/Reverse	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C806**
Start/Stop	2	1NO/1NC	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C808**
Up/Down	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C809**
Up/Down	2	2NO	Red	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C810**
Up/Down	2	2NO	Black	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C811**
Up/Down	2	2NO	Yellow	1, 3, 3R, 4, 4X	8"	2.19"	2.98"	**20C812**
Up/Down	2	2NO	Yellow	4, 4X, 5	9.25"	2.08"	2.91"	**20C813**
User Configurable	2	2NO/2NC	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C804**
User Configurable	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C805**
Maintained, ½" 14 NPT Entrance								
On/Off	2	1NO/1NC	Yellow	1, 3, 3R, 4, 4X	4.62"	2.19"	2.98"	**20C807**
Contact Blocks								
1 Speed	—	1NO	—	—	—	—	—	**20C816**
1 Speed	—	1NC	—	—	—	—	—	**20C817**

Push-Button Pendant Stations—Assembled

- NEMA rated 1, 3, 3R, 4, 4X, and 13 plastic enclosures
- ½" conduit entry
- 5A contact rating

Include strain relief. 600VAC/DC max. Rated NEMA B600-P600. UL Listed, CSA Certified, and CE Certified.


No. 5FTP6


No. 5FTP7

Legend	Type of Operator	Contact Form	Mechanical Interlock	Housing Color	Mfr. Model	Item No.
Up/Down	Push Button	2NO	Yes	Black	9001BW92B	**5FTP5**
Up/Down	Push Button	2NO	Yes	Red	9001BW92R	**5FTP6**
Up/Down	Push Button	2NO	Yes	Yellow	9001BW92Y	**5FTP7**
Start/Stop	Push Button	1NO/1NC	No	Yellow	9001BW95Y	**5FTP8**
Start/Stop	Push Button	2NO	Yes	Yellow	9001BW96Y	**12N831**
Forward/Reverse	Push Button	2NO	Yes	Yellow	9001BW93Y	**5FTP9**
On/Off	Push Button	1NO/1NC	Yes	Yellow	9001BW94Y	**5FTR0**
User Configurable	Push Button	2NO	Yes	Yellow	9001BW90YU	**12N832**
User Configurable	Push Button	2NO/2NC	No	Yellow	9001BW91YU	**5FTR1**
User Configurable	Push Button	2NO	Yes	Yellow	9001BW100YU	**5FTR2**

Push-Button Pendant Stations

Square D by Schneider Electric

Come unassembled, except for 2-Button Pendant Station Nos. 2EV30 and 2EV31. UL Listed, CSA Certified, and CE Certified.

30MM
- NEMA rated 1, 3, 4, 4X, and 13 plastic enclosures
- ¾" NPT conduit entry

Use with any 30mm corrosion-resistant, nonilluminated operators. Interlocked push buttons include contact blocks; rated NEMA A-600.

22MM
- NEMA Type 1, 4, 4X, and 5 plastic enclosures
- 8 to 26mm cable entry

Use with a variety of 22mm corrosion-resistant, nonmetallic, nonilluminated operators. Contact blocks; rated NEMA A-600, Q-150DN.

Description	Mfr. Model	Item No.
30mm Components		
2-Hole Enclosure	9001SKYP2	**2ER80**
4-Hole Enclosure	9001SKYP4	**2ER81**
6-Hole Enclosure	9001SKYP6	**2ER82**
8-Hole Enclosure	9001SKYP8	**2ER83**
10-Hole Enclosure	9001SKYP10	**2ER79**
2 Momentary Push Buttons, 2 NO, Interlocked	9001SKRU1	**2ER60**
2 Maintained Push Buttons, 1 NO, 1 NC, Interlocked	9001SKRU11	**2ER62**
2 Maintained Push Buttons, Interlocked w/o Contacts, Universal Color, Includes Black, Red, Green, Yellow, Orange, Blue and White	9001KR11U	**H5315**
2 Momentary Push Buttons, 2 NO, Interlocked 2-Speed	9001SKRU2	**2ER63**
2 Momentary Push Buttons, 2 NO, Interlocked 5-Speed	9001SKRU5	**2ER66**
Legend Plate (Hoist Up/Down)	9001SKN201	**2ER36**
22mm Components		
2-Hole Enclosure	XACA02H7	**2EV25**
3-Hole Enclosure	XACA03H7	**24J875**
4-Hole Enclosure	XACA04H7	**2EV26**
6-Hole Enclosure	XACA06H7	**2EV27**
8-Hole Enclosure	XACA08H7	**2EV28**
12-Hole Enclosure	XACA12H7	**2EV29**
Push Buttons, Booted Single Black Button	XACA9412	**2EV34**
1 NO/Spring Return/1 Speed Contact Block	ZB2BE101	**4B696**
1 NC/Spring Return/1 Speed Contact Block	ZB2BE102	**4B699**
1 NO Early Close + 1 NC and 1 NO/ Spring Return/2 Speed Contact Block	XENG1191	**2EW17**
Interlock for Contact Block	XACA009	**2EV24**
22mm Assembled Pistol Grip Pendant Station		
2 Button, Up/Down, 2NO	XACA201	**2EV30**
2 Button, Up/Down, 1NO/1NC	XACA205	**2EV31**


30mm Enclosure No. 2ER81


22mm Enclosure No. 2EV30

NEMA Type 4X Pendant Stations

Hubbell Wiring Device-Kellems

- Rated 6A at 120V and 3A at 240V
- Max. voltage: 240V

Nylon cord grip and sealing ring keep out dust and moisture. Momentary operation; for control circuit operation of electric motor hoists and other machinery. No. 5C317 has mechanical interlock to prevent activating both buttons simultaneously. 9.2"L x 1.1"W x 2.4"D. UL Listed and CSA Certified.

Legend	Type of Operator	Contact Form	Housing Color	Mfr. Model	Item No.
Up/Down	Push Button	2NO	Yellow	CPB21	**5C317**
Start/Stop	Push Button	1NO/1NC	Yellow	CPB20	**3D319**


No. 5C317

Assembled Control Stations



NEMA 1
No. 2EK13



NEMA 4
No. 2EK34



NEMA 1, 3, 4, and 13
No. 2NMC8

- Metal NEMA enclosures
- 600VAC/DC max.

Surface-mount stations for use with magnetic motor starters to control functions of electric motors. Not for direct starting or stopping of motors. UL Listed.

NEMA 1 AND NEMA 4 (INDOOR)

Contact blocks rated 0.6A at 600VAC, 0.75A at 480VAC, 1.5A at 240VAC, 3.75A at 120VAC. Grainger 2XV series are also CSA Recognized, CE Certified, and NEMA B600-P600.

NEMA 1, 3, 4, AND 13

Contact blocks rated 1.2A at 600VAC, 1.5A at 480VAC, 3A at 240VAC, 6A at 120VAC.

No. of Operators	Legend	Type of Operator	Action*	NEMA RATING 1 Contact Form	1 Mfr. Model	1 Item No.	4 Contact Form	4 Mfr. Model	4 Item No.	1, 3, 4, 13 Contact Form	1, 3, 4, 13 Mfr. Model	1, 3, 4, 13 Item No.
1	Emergency Stop	Mushroom Head	Push / Pull	—	—	—	1NC	9001KYG1Y1	**5GEL0**	—	—	—
1	Emergency Stop	Mushroom Head	Twist-to-Release	—	—	—	1NC	9001KYG1Y2	**5GEL1**	—	—	—
1	Hand/Off/Auto	Selector Switch	M	2NO	9001BG112	**2EK12**	—	—	—	1NO/1NC	9001KYK111	**2NMC5**
1	No Legend	Guarded Red Pilot Light	Push / Pull	—	—	—	1NC	9001KYG11	**5GEK8**	—	—	—
1	No Legend	Guarded Green Pilot Light	Push / Pull	—	—	—	1NC	9001KYG12	**5GEK9**	—	—	—
1	Off/On	Selector Switch	M	1NO/1NC	9001BG111	**2XVF6**	—	—	—	1NO/1NC	9001KYK110	**2NMC4**
1	Start	Push Button	S	1NO	9001BG101	**2XVF3**	1NO	9001BW146	**2XVG4**	1NO/1NC	9001KYK11	**2NMC3**
1	Stop	Push Button	S	1NC	9001BG102	**2XVF4**	1NC	9001BW147	**2XVG5**	1NO/1NC	9001KYK13	**2NMC6**
1	Stop	Mushroom Head	S	1NC	9001BG103	**2XVF5**	—	—	—	1NO/1NC	9001KYK14	**2NMC7**
2	Forward/Reverse	Push Buttons	S / S	2NO	9001BG206	**2EK16**	2NO	9001BW242	**2XVG7**	2NO/2NC	9001KYK24	**2NMD2**
2	Open/Close	Push Buttons	S / S	2NO	9001BG207	**2XVF8**	2NO	9001BW244	**2XVG8**	2NO/2NC	9001KYK26	**2NMD4**
2	Raise/Lower	Push Buttons	S / S	2NO	9001BG209	**2XVF9**	2NO	9001BW253	**2XVH1**	—	—	—
2	Start/Stop	Push Buttons	M / M	2NO	9001BG215	**2EK19**	2NO	9001BW255	**2XVH2**	1NO/1NC	9001KYK27	**2NMD5**
2	Start/Stop	Push Buttons	S / S	1NO/1NC	9001BG204	**2XVF7**	1NO/1NC	9001BW241	**2EK35**	2NO/2NC	9001KYK23	**2NMD1**
2	Start/Stop	Mushroom Head	S / S	1NO/1NC	9001BG203	**2EK14**	1NO/1NC	9001BW250	**2XVG9**	2NO/2NC	9001KYK22	**2NMC9**
2	Start/Stop	Push Buttons	S / S	1NO/1NC	9001BG201	**2EK13**	1NO/1NC	9001BW240	**2EK34**	2NO/2NC	9001KYK21	**2NMC8**
2	Up/Down	Push Buttons	S / S	2NO	9001BG208	**2EK17**	2NO	9001BW243	**2EK36**	2NO/2NC	9001KYK25	**2NMD3**
3	Forward/Reverse/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG302	**2EK22**	—	—	—	3NO/3NC	9001KYK31	**2NMD6**
3	Jog/Run/Start/Stop	Selector Switch/Flush Button/Extended Button	M / S / S	—	—	—	—	—	—	3NO/3NC	9001KYK36	**2NMD9**
3	Open/Close/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG303	**2EK23**	—	—	—	3NO/3NC	9001KYK33	**2NMD8**
3	Raise/Lower/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG304	**2XVG2**	—	—	—	—	—	—
3	Start/Jog/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG316	**2XVG3**	—	—	—	—	—	—
3	Up/Down/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG305	**2EK24**	—	—	—	3NO/3NC	9001KYK32	**2NMD7**

**** M = maintained contact, S = spring return momentary contact.***



No. 20C797

Dayton

Control Stations

- 600VAC/DC
- Surface mount

No. of Operators	Legend	Contact Form	NEMA Rating	H	W	D	Item No.
Momentary							
3	Forward/Reverse/Stop	2NO/2NC, 1NC	1	2.19"	3.69"	2.06"	**20C796**
1	No Legend	1NO/1NC	1	2.19"	3.69"	2.06"	**20C791**
2	Open/Close	2NO	1	2.19"	3.69"	2.06"	**20C792**
3	Open/Close/Stop	2NO/2NC, 1NC	1	2.19"	3.69"	2.06"	**20C797**
3	Raise/Lower/Stop	2NO/2NC, 1NC	1	2.19"	5.00"	2.06"	**20C798**
2	Start/Stop	1NO/1NC	1	2.34"	3.69"	2.06"	**20C794**
2	Start/Stop	1NO/1NC	4	3.27"	2.75"	2.76"	**20C801**
2	Start/Stop	1NO/1NC	4	3.27"	2.75"	2.76"	**20C802** *
2	Up/Down	2NO	1	2.19"	3.69"	2.06"	**20C795**
2	Up/Down	2NO	4	3.27"	2.75"	2.76"	**20C803**
3	Up/Down/Stop	2NO/2NC, 1NC	1	2.19"	3.69"	2.06"	**20C799**
Maintained							
1	Hand/Off/Auto	2NO	1	2.19"	3.69"	2.06"	**20C789**
2	Start/Stop	1NO/1NC	1	2.19"	3.69"	2.06"	**20C793**

**** Lockout on stop.***

30mm Control Stations

SIEMENS

NEMA 1 stations feature internal mounting holes. NEMA 4 and 4X have external mounting holes. UL Listed and CSA Certified.



NEMA 1
No. 6EWZ7



NEMA 4X
No. 6EXD1

No. of Operators	Legend	Type of Operator	NEMA 1 Contact Form	NEMA 1 Item No.	NEMA 4 Contact Form	NEMA 4 Item No.	NEMA 4X Contact Form	NEMA 4X Item No.
Maintained								
1	Hand/Off/Auto	3-Position Selector Switch	2NO	**6EWZ2**	1NO/1NC	**6EXA4**	1NO/1NC	**6EXC5**
1	Off/On	2-Position Selector Switch	2NO	**6EWZ6**	1NO/1NC	**6EXA7**	1NO/1NC	**6EXC9**
Momentary								
1	Start	Button	1NO/1NC	**6EWZ3**	1NO/1NC	**6EXA5**	1NO/1NC	**6EXC6**
1	Stop	Mushroom Head	1NO/1NC	**6EWZ5**	—	—	1NO/1NC	**6EXC8**
1	Stop	Button	1NO/1NC	**6EWZ4**	1NO/1NC	**6EXA6**	1NO/1NC	**6EXC7**
2	Forward/Reverse	Button	2NO	**6EWZ8**	1NO/1NC	**6EXA9**	—	—
2	Open/Close	Button	2NO	**6EWZ9**	1NO/1NC	**6EXC0**	—	—
2	Start/Stop	Button	1NO/1NC	**6EWZ7**	1NO/1NC	**6EXA8**	2NO/2NC	**6EXD1**
2	Up/Down	Button	—	—	—	—	1NO/1NC	**6EXD0**
3	Forward/Reverse/Stop	Button	2NO/2NC, 1NO/1NC	**6EXA0**	1NO/1NC	**6EXC2**	1NO/1NC	**6EXD2**
3	Open/Close/Stop	Button	2NO/2NC, 1NO/1NC	**6EXA1**	1NO/1NC	**6EXC1**	1NO/1NC	**6EXD3**
3	Start/Jog/Stop	Button	2NO/2NC, 1NO/1NC	**6EXA3**	1NO/1NC	**6EXC4**	—	—
3	Up/Down/Stop	Button	2NO/2NC, 1NO/1NC	**6EXA2**	1NO/1NC	**6EXC3**	1NO/1NC	**6EXD4**

Hazardous Area Control Stations

KILLARK

- For locations defined as hazardous in NEC Class I, Div. 1 or 2; Class II; or Class III, Div. 1 or 2
- Cast-aluminum cover and body
- Stainless steel bolts are captivated to prevent loss

For use in areas where flammable gases or combustible dusts may exist. Raintight NEMA 3 factory-sealed sealing plate has a molded gasket and is attached to the operator cover for easy wiring and assembly. UL Listed and CSA Certified.

Note: Nos. 2AV81, 2AV91, 2AY16, and 2AV85 are not for direct starting or stopping of motors. Nos. 2AV95, 2AV98, 2AY11, and 2AY14 are used to start and stop small horsepower electric motors.



No. 2AV95



No. 2AY16

Legend	Contact Form	Amps	HUB SIZE ½" Mfr. Model	½" Item No.	¾" Mfr. Model	¾" Item No.
Toggle						
On/Off	1-Pole	20	FXS-41C	**2AV95**	FXS-51C	**2AV98**
Start/Stop	2-Pole	20	—	—	FXSX52	**2AY11**
Start/Stop	3-Pole	20	—	—	FXSX53	**2AY14**
Push Button						
Blank	2NO/2NC	10A @ 600VAC, 2.5A @ 250VDC	FXCS-4B7	**2AV81**	FXCS-5B7	**2AV91**
Start/Stop	1NO/1NC	10A @ 600VAC, 2.5A @ 250VDC	FXCS-4B4	**2AY16**	FXCS-5B4	**2AV85**

Find more Dayton® 30mm Operators and Accessories at Grainger.com®.

Dayton

30mm Nonilluminated Push Buttons—Complete Units

- NEMA 4 and 13 rated

Direct-acting operation. UL Listed. CSA and CE Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Head Material	Contact Form	Item No.
Momentary Push				
Flush Button; Extended Button	Red; Green; Universal; Black	Metal	1NO/1NC	**H7067**
	Red; Green; Black; Universal	Plastic	1NO/1NC	**H7071**
57mm Mushroom Head; 40mm Mushroom Head	Green; Black; Red	Metal; Plastic	1NC	**H7085**
Maintained Push / Maintained Pull				
40mm Mushroom Head	Red; Green; Black	Metal; Plastic	1NO/1NC	**H7094**


No. H7067


No. H7071

Dayton

30mm Selector Switches, Complete Units

- NEMA 4 and 13 rated

Include operator, key, and contact block. UL Listed. CSA and CE Certified.

Position	Action*	Contact Form	Cam	Key Removal	Switch Operation @ Position† @ Pos. A	@ Pos. B	@ Pos. C	PLASTIC NEMA 4, 4X, 13 Item No.	CHROME NEMA 4, 13 Item No.
Lever									
2	M / M	1NO/1NC	E	No Key	XO	OX	—	**30G297**	**30G296**
2	M / M	2NO/2NC	E	No Key	XOXO	OXOX	—	**31XH91**	**30G298**
2	M / S	1NO/1NC	D	No Key	OX	XO	—	**30G301**	**30G299**
3	M / M / M	1NO/1NC	F	No Key	OO	OX	XO	—	**30G302**
3	M / M / M	1NO/1NC	D	No Key	OO	OX	XO	**31XH92**	—
3	M / M / S	1NO/1NC	C	No Key	XO	OO	OX	**30G306**	**30G305**
3	S / M / S	1NO/1NC	C	No Key	XO	OO	OX	**30G304**	**30G303**
Extended Lever									
2	M / M	1NO/1NC	E	No Key	XO	OX	—	**32UK01**	**30G308**
2	M / M	1NO/1NC	E	No Key	XO	OX	—	**31XH93**	**30G307**
2	M / S	1NO/1NC	D	No Key	OX	XO	—	—	**30G310**
3	M / M / S	1NO/1NC	C	No Key	XO	OO	OX	—	**30G314**
3	S / M / S	1NO/1NC	C	No Key	XO	OO	OX	—	**30G312**
Keyed									
2	M / M	1NO/1NC	E	Left	XO	OX	—	—	**30G316**
2	M / M	1NO/1NC	E	Left/Right	XO	OX	—	—	**30G315**
2	S / M	1NO/1NC	D	Right	OX	XO	—	—	**30G317**

** M=maintained contact, S=spring return momentary contact. † X=Closed/On, O=Open/Off.*


No. 30G296


No. 30G315

Dayton

30mm Joystick Operators

Chrome-plated zinc die-cast construction.
UL Listed. CSA and CE Certified.

No. of Directions	Action	Direction of Operation	Item No.
4	Momentary	Vertical and Horizontal	**30G490**



Dayton

30mm Contact Blocks

- 10A @ 600VAC/DC
- Direct-acting

Contact Form	Item No.
1NC	**30G318**
1NO	**30G319**
1NC/1NO	**30G320**


No. 30G318

Dayton

30mm Potentiometers

- 4mA
- 500VAC
- 2W

Feature a heavy-duty dial plate with graduation from 0% to 100%.

Ohms	NEMA Rating	Item No.
1000	4, 13	**30G484**
2500	4, 13	**30G485**
5000	4, 13	**30G486**
5000	4, 4X, 13	**30G489**
10,000	4, 13	**30G487**


No. 30G484


No. H7014


No. H6967


No. 30G321

Dayton

30mm Nonilluminated Push Buttons

- NEMA 4 and 13 rated

Direct-acting operation. Contact blocks sold separately, this page.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	Item No.
Momentary Push			
Flush Button; Extended Button	Green; Red; Black	Metal; Plastic	**H7014**
Flush Button; Extended Button	Multi	Metal; Plastic	**H7015**
40mm Mushroom Head	Black	Metal; Plastic	**H6966**
60mm Mushroom Head	Red; Green	Metal; Plastic	**H6967**
Maintained Push / Maintained Pull			
40mm Mushroom Head	Red; Black	Metal; Plastic	**H7009**
Maintained Push			
Emergency Break Glass Operator	Yellow	Plastic	**30G321**





EATON

30mm Illuminated Push Buttons, Complete Units

- Heavy-duty metal operators
- HT800 series has anodized aluminum mounting rings
- Momentary action, except mushroom head are maintained push/pull
- UL Listed, CE, and CSA Certified
- NEMA 3, 3R, 4, 4X, 12, and 13 rated

Lamp Type	▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Contact Form	Item No.
10250T Series					
Full Voltage					
Incandescent	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24VAC/DC; 120VAC	1NO; 1NC	**H4389**
LED				1NO/1NC	**H4385**
		Amber; Blue; Green; Red; White; Yellow		1NO; 1NC	**H4396**
				1NO/1NC; 2NO	**H4397**
Transformer					
LED	40mm Mushroom Head	Red	24VAC; 120VAC/DC	1NC	**H4432**
	Round Button	Amber; Blue; Green; Red; White; Yellow	120VAC	1NO; 1NC	**H4383**
				1NO/1NC	**H4384**
		Amber; Blue; Clear; Green; Red; White; Yellow		1NO; 1NC	**H4386**
				1NO/1NC	**H4387**
HT800 Series					
Full Voltage					
LED	41mm Mushroom Head	Green; Red	24VAC/DC; 120VAC	1NO; 1NC	**H4184**
		Red		1NO/1NC	**H4189**
					H6948
					H6949 *
	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow		1NO; 1NC	**H6950**
				1NO	**H4180**
				1NC	**H5317**
				2NO/2NC	**H4191**
	Round Extended Guarded Button			1NO	**H5298**
				1NC	**H5319**
				2NO/2NC	**H5300**
	Round Extended Guarded Button; Round Button			1NO/1NC	**H4187**
Transformer					
LED	41mm Mushroom Head	Green; Red	120VAC	1NO; 1NC	**H4186**
				1NO/1NC	**H4190**
	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow		1NC	**H5303**
				1NO	**H5304**
				1NO/1NC	**H5305**
				2NO/2NC	**H5306**
	Round Extended Guarded Button			1NO	**H5302**
				1NC	**H4182**
				1NO/1NC	**H4188**
				2NO/2NC	**H4192**

** Finger safe terminals.*





EATON

30mm Nonilluminated Push Buttons, Complete Units

- 10A, 660VAC/VDC
- HT800 series has anodized aluminum mounting rings
- UL Listed, CE, and CSA Certified
- Momentary action

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Contact Form	▶CHOOSE: Action	Legend	Item No.
10250T Series					
40mm Mushroom Head	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4402**
40mm Mushroom Head	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4405**
65mm Mushroom Head	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4404**
65mm Mushroom Head	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4407**
65mm Mushroom Head	Red	1NO; 1NC	Momentary Push	Emergency Stop	**H4406**
65mm Mushroom Head	Red	1NO/1NC; 2NO; 2NC	Momentary Push	Emergency Stop	**H4409**
Flush Button; Extended Button	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4399**
Flush Button; Extended Button	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4400**
HT800 Series					
40mm Domed Mushroom Head	Black; Green; Red	1NO; 1NC	Maintained Push / Maintained Pull	No Legend	**H7087**
40mm Domed Mushroom Head	Black; Green; Red	1NO/1NC	Maintained Push / Maintained Pull	No Legend	**H7091**
40mm Mushroom Head	Black; Green; Red	1NO; 1NC	Momentary Push	No Legend	**H7083**
40mm Mushroom Head	Black; Green; Red	1NO; 1NC	Maintained Push / Maintained Pull	No Legend	**H7088**
40mm Mushroom Head	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7089**
40mm Mushroom Head	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7095**
Extended Button	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7070**
Extended Button	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7074**
Flush Button	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7069**
Flush Button	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7073**
Flush Button; Extended Button	Black; Green; Red	1NO; 1NC	Momentary Push	No Legend	**H7064**



EATON

30mm Selector Switches, Complete Units

- 600VAC
- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Switches are rated NEMA 1, 2, 3, 4, 4X, 12, and 13. Red units are illuminated, 120V incandescent lamp included.

Position	Action*	Contact Form	Color	KNOB Item No.	LEVER Item No.
10250T Series					
2 Position	M / M	1NO/1NC	Black	**39P805**	**39P806**
	M / M	1NO/1NC	Red	**39P807**	**39P808**
3 Position	M / M / M	2NO	Black	**39P809**	**39P810**
	M / M / M	2NO	Red	**39P811**	**39P812**
	M / M / M	2NO/2NC	Black	**39P813**	**39P814**
	M / M / M	2NO/2NC	Red	**39P815**	**39P816**
4 Position	M / M / M / M	2NO/2NC	Black	**39P817**	**39P818**
	M / M / M / M	2NO/2NC	Red	**39P819**	**39P820**
HT800 Series					
2 Position	M / M	1NO	Black	**12Y188**	**12Y201**
	S / M	1NO	Black	**12Y189**	**12Y202**
	M / S	1NO	Black	**12Y190**	**12Y203**
	M / M	2NO	Black	**12Y191**	**12Y204**
	S / M	2NO	Black	**12Y192**	**12Y205**
	M / S	2NO	Black	**12Y193**	**12Y206**
	M / M	2NO/2NC	Black	**12Y194**	**12Y207**
	S / M	2NO/2NC	Black	**12Y195**	**12Y208**
	M / S	2NO/2NC	Black	**12Y196**	**12Y209**
3 Position	M / M / M	2NO	Black	**12Y214**	**12Y226**
	S / M / M	2NO	Black	**12Y215**	**12Y227**
	M / M / S	2NO	Black	**12Y216**	**12Y228**
	S / M / S	2NO	Black	**12Y217**	**12Y229**
	M / M / M	2NO/2NC	Black	**12Y218**	**12Y230**
	S / M / M	2NO/2NC	Black	**12Y219**	**12Y231**
	M / M / S	2NO/2NC	Black	**12Y220**	**12Y232**
	S / M / S	2NO/2NC	Black	**12Y221**	**12Y233**
4 Position	M / M / M / M	2NO/2NC	Black	**12Y237**	**12Y243**
	S / M / M / M	2NO/2NC	Black	**12Y238**	**12Y244**
	M / M / M / S	2NO/2NC	Black	**12Y239**	**12Y245**

** M=maintained contact, S=spring return momentary contact.*

Find more Eaton 30mm Operators and Accessories at Grainger.com®.

EATON

30mm Illuminated Push Buttons

- Heavy-duty metal operators
- LED lamp
- Momentary action, except mushroom head are maintained push/pull
- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Rated NEMA 3, 3R, 4, 4X, 12, and 13. Contact blocks sold separately.


Extended


Extended/Guarded


Mushroom Push-Pull

Lamp Type	▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Lamp Module Voltage	Item No.
10250T Series				
Full Voltage				
Incandescent	Extended Button	No Cap	6VAC/DC; 12VAC/DC; 24VAC/DC; 32VAC/DC; 48VAC/DC; 120VAC; 240VAC	**H4390**
Transformer				
Incandescent	Extended Button	No Cap	24VAC; 120VAC; 240VAC; 277VAC; 380VAC; 480VAC; 600VAC	**H4382**
LED				**H4381**
HT800 Series				
Full Voltage				
LED	40mm Mushroom Head	Green; Red	24VAC/DC; 120VAC	**H4183**
		Red	24VAC	**12K626** *
			24VAC/DC; 120VAC	**H7061** †
			120VAC	**12K624** *
	Extended Guarded Button; Extended Button	Amber; Blue; Clear; Green; Red; White; Yellow	24VAC/DC; 120VAC	**H4179**
Transformer				
LED	40mm Mushroom Head	Green; Red	120VAC	**H4185**
	Full Guarded Button; Extended Button	Amber; Blue; Clear; Green; Red; White; Yellow		**H4181**

Finger safe terminals. † Low profile version.

EATON

30mm Nonilluminated Operators

- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Rated NEMA 1, 2, 3, 3R, 4, 4X, 12, and 13.


No. H4398


No. H7007

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Action	Item No.
10250T Series			
Half Shroud Button; Flush Button; Extended Button	Black; Red; Green; Yellow; Gray; White; Blue; Orange	Momentary Push	**H4398**
Flush Button/Flush Button; Flush Button/Extended Button	Black/Green; Green/Black; Black/Red; Green/Red	Maintained	**H4408**
65mm Mushroom Head	Black; Red; Green; Yellow	Momentary Push	**H4403**
40mm Mushroom Head	Black; Red; Green; Yellow; Blue	Momentary Push	**H4401**
HT800 Series			
Flush Button; Extended Button	Black; Red; Green	Momentary Push	**H7011**
40mm Mushroom Head		Momentary Push	**H7006**
		Maintained Push / Maintained Pull	**H7007**
		Maintained Push / Maintained Pull	**H7008**

EATON

30mm Selector Switches

- NEMA 3, 3R, 4, 4X, 12, and 13 rated
- Black knob/lever

Designed with chrome-plated housing and mounting nut on 10250T series and anodized aluminum on HT800 series. Contact blocks sold separately.


No. 39P995


No. 12Y185

Position	Cam	Action*	KNOB Item No.	LEVER Item No.
10250T Series				
2	1	M / M	**39P984**	**39P995**
2	1	M / S	**39P985**	**39P996**
3	2	M / M / M	**39P986**	**39P997**
3	2	M / M / S	**39P992**	**39R004**
3	2	S / M / M	**39P988**	**39P999**
3	2	S / M / S	**39P990**	**39R002**
3	3	M / M / M	**39P987**	**39P998**
3	3	M / M / S	**39P993**	**39R005**
3	3	S / M / M	**39P989**	**39R001**
3	3	S / M / S	**39P991**	**39R003**
4	7	M / M / M / M	**39P994**	**39R006**
HT800 Series				
2	3A	M / M	**12Y185**	**12Y197**
2	3A	M / S	**12Y187**	**12Y199**
2	3A	S / M	**12Y186**	**12Y198**
3	1D	M / M / M	**12Y210**	**12Y222**
3	1D	M / M / S	**12Y212**	**12Y224**
3	1D	S / M / M	**12Y211**	**12Y223**
3	1D	S / M / S	**12Y213**	**12Y225**
4	8E	M / M / M / M	**12Y234**	**12Y240**
4	8E	M / M / M / S	**12Y236**	**12Y242**
4	8E	S / M / M / M	**12Y235**	**12Y241**

M=maintained contact, S=spring return momentary contact.



EATON

30mm Contact Blocks

Designed with posidrive saddle clamp-type screw terminals.

Contact Form	Color	Contact Rating	Mfr. Model	Item No.
For Use With Eaton HT800 Operators				
1NC	Clear	12A @ 600VAC	HT8B	**14A136**
1NC Late Break	Clear	12A @ 600VAC	HT8D	**14A138**
1NO	Clear	12A @ 600VAC	HT8A	**14A135**
1NO Early Make	Clear	12A @ 600VAC	HT8C	**14A137**
For Use With Eaton 10250T Operators				
1NC	Gray	10A @ 660VAC/DC	10250T51	**H4379**
1NC/1NO	Gray	10A @ 660VAC/DC	10250T1	**H4380**
1NC Late Break	Black	10A @ 660VAC/DC	10250T71	**39R043**
1NC Late Break/1NO Early Make	Black	10A @ 660VAC/DC	10250T55	**39R047**
1NC Logic Level	Gray	0.5A @ 120VAC	10250T51E	**39R028**
1NC Standard/1NO Early Make	Black	10A @ 660VAC/DC	10250T47	**39R044**
1NO	Gray	10A @ 660VAC/DC	10250T53	**H4379**
1NO/1NC Logic Level	Gray	0.5A @ 120VAC	10250T1E	**39R030**
1NO Logic Level	Gray	0.5A @ 120VAC	10250T53E	**39R029**
2NC	Gray	10A @ 660VAC/DC	10250T3	**H4380**
2NC Logic Level	Gray	0.5A @ 120VAC	10250T3E	**39R031**
2NO	Gray	10A @ 660VAC/DC	10250T2	**H4380**
2NO (1) Early Make, (1) Standard	Black	10A @ 660VAC/DC	10250T57	**39R045**
2NO Logic Level	Gray	0.5A @ 120VAC	10250T2E	**39R032**

Find more Siemens 30mm Operators and Accessories at Grainger.com®.



No. H6930



No. H5390

30mm Illuminated Push Buttons—Complete Units

SIEMENS

- Include 1NO/1NC contact block
- Material: chrome-plated zinc die-cast

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. UL Listed and CSA Certified.

Type of Operator	▶CHOOSE: Color	▶CHOOSE: Contact Form	▶CHOOSE: Lamp Module Voltage	Lamp Module Type	INCANDESCENT Item No.	LED Item No.
Maintained / Momentary						
Round Button	Amber; Green; Red; White	1NO/1NC	24VAC/DC	Full Voltage	**H6930**	**H6935**
			120VAC	Transformer	**H6932**	**H6937**
Maintained Pull / Maintained Push						
44mm Mushroom Head	Amber; Green; Red; White	1NO/1NC; 2NC	24VAC/DC; 120VAC	Full Voltage	—	**H5373**
			24VAC/DC; 120VAC	Full Voltage	**H5390**	**H5391**
			120VAC; 240VAC; 480VAC	Transformer	**H5392**	**H5393**
Momentary 3 Position Push/Pull						
44mm Mushroom Head	Green	1NO/1NC	120VAC	Transformer	**6EWU7**	—
Turn to Release						
45mm Mushroom Head	Amber; Green; Red	1NO/1NC; 2NC	24VAC/DC; 120VAC	Full Voltage	**H5376**	**H5376**



No Guard



Full Guard

30mm Nonilluminated Push Buttons

SIEMENS

- Round shape

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. Contact blocks sold separately, this page. UL Listed and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	Bezel Material	Head Material	Mfr. Model	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull					
45mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PP3	**6EWP9**
Momentary Push					
Flush Button; Extended Button	Black; Green; Red	Chrome Plated Zinc Die Cast	Plastic	52PA8	**H7012**
		Epoxy Coated Zinc Die Cast	Plastic	52PX8	**H7013**
Flush Button	Multi	Chrome Plated Zinc Die Cast	Plastic	52PA8	**41H102**
63mm Mushroom Head	Green	Chrome Plated Zinc Die Cast	Plastic	52PM9	**32GG35**
44mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PM9	**32GG07**
		Black Epoxy Coated Zinc Die Cast	Plastic	52BM9	**32GG52**
Maintained Push / Maintained Pull					
45mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PP2	**6EWR1**
		Chrome Plated Zinc Die Cast	Metal	52PP2	**6EWR2**
		Epoxy Coated Zinc Die Cast	Plastic	US2:5	**41H193**
		Black Epoxy Coated Zinc Die Cast	Metal	52BP2	**41H060**



No. 6EXF0

30mm Selector Switches

SIEMENS

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. Include operator and knob. UL Listed and CSA Certified.

Action*	Cam	LEVER Item No.	EXTENDED LEVER Item No.
2 Position			
M / M	A	**6EXF0**	**6EXE9** —
M / S	A	**6EXF2**	**6EXF1**
3 Position			
M / M / M	B	**6EXF5**	**6EXF3**
M / M / M	C	**6EXF6**	**6EXF4**
M / M / S	C	**6EXF8**	**6EXF7**
S / M / S	B	**6EXG0**	**6EXF9**
4 Position			
M / M / M / M	H	**6EXG2**	**6EXG1**

** M=maintained contact, S=spring return momentary contact.*



No. 6EXD5

Contact Blocks for 30mm Operators

SIEMENS

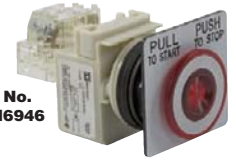
- 600VAC/DC
- 10A AC/5A DC

Feature screw terminal type. For use with Siemens 30mm pushbuttons and selector switches. UL Listed and CSA Certified.

Contact Form	Mfr. Model	Item No.
1NO	52BAK	**6EXD5**
1NC	52BAJ	**6EXD6**
1NC Late Break	52BAU	**6EXD7**
1NC/1NO	52BJK	**6EXD8**



No. H6931



No. H6946

30mm Illuminated Push Buttons, Complete Units

Schneider Electric

Complete push buttons include interchangeable operators, contact blocks, and light modules. Oiltight, watertight, and dust-tight. Ring nuts are interchangeable. Lamp included. NEMA 4 operators are chrome-plated die-cast zinc for rugged installations. NEMA 4X operators are black plastic for corrosion resistance. UL Listed, CE and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	▶CHOOSE: Lamp Module Voltage	Lamp Type	Lamp Module Type	Contact Form	Item No.
Momentary							
Round Guarded Button; Round Extended Guarded Button; Round Button	Amber; Green; Red; White; Yellow	Plastic; Metal	120VAC	Incandescent	Transformer	1NO/1NC	**H6931**
			24VAC/DC; 120VAC	LED	Full Voltage	1NO/1NC	**H6934**
		Metal; Plastic	24VAC/DC	Incandescent	Full Voltage	1NO/1NC	**H6929**
Maintained Pull / Maintained Push							
41mm Mushroom Head	Green; Red; White; Yellow	Plastic; Metal	120VAC	Incandescent	Transformer	1NO/1NC	**H6946**



No. H7072



No. H7068

30mm Nonilluminated Push Buttons, Complete Units

Schneider Electric

Complete push buttons include interchangeable operators, contact blocks, and light modules. Oiltight, watertight, and dust-tight operators with interchangeable ring nuts and color inserts make design changes easy. NEMA 4 operators are chrome-plated die-cast zinc for rugged installations. NEMA 4X operators are black plastic for corrosion resistance. UL Listed, CE and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Head Material	▶CHOOSE: Contact Form	Item No.
Momentary Push				
No Guard; Flush Button; Extended Button	Universal	Plastic; Metal	1NO/1NC	**H7072**
Flush Button; Extended Button	Black; Green; Red	Metal; Plastic	1NO; 1NC	**H7062**
	Universal	Plastic; Metal	1NO; 1NC	**H7066**
Flush Button; Extended Guard; Extended Button	Red; Black; Green; Yellow	Metal; Plastic	1NO/1NC	**H7068**
57mm Mushroom Head; 35mm Mushroom Head	Black; Green; Red	Plastic	1NC	**H7084**
		Plastic	1NC	**H7086**
Maintained Push / Maintained Pull				
40mm Mushroom Head	Red; Black; Green	Plastic	1NO/1NC	**H7093**

Position	Action*	Contact Form	Cam	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Switch @ Pos. D	METAL Item No.	PLASTIC Item No.
Lever									
2	M / M	1NO/1NC	E	0X	X0	—	—	2EN52	5GEV1
2	M / M	1NO/1NC	E	0X	X0	—	—	2EN53	45J160
2	M / M	1NO/1NC	E	0X	X0	—	—	7A161 †	—
2	M / M	2NO/2NC	E	0X0X	X0X0	—	—	2EN54	45J161
2	M / S	1NO/1NC	D	X0	0X	—	—	5GET0	5CFJ1
2	S / M	1NO/1NC	E	0X	X0	—	—	5GER8	5EAV7
3	M / M / M	1NO/1NC	B	0X	X0	X0	—	45C539	—
3	M / M / M	1NO/1NC	B	X0	X0	0X	—	5GET3	45J168
3	M / M / M	2NO/2NC	B	X0OX	X0X0	0XX0	—	45C540	45J169
3	M / M / M	1NO/1NC	C	0X	00	X0	—	5GET5	5CFJ3
3	M / M / M	1NO/1NC	C	0X	00	X0	—	2EN61	45J170
3	M / M / M	2NO/2NC	C	0X0X	0000	X0X0	—	—	45J171
3	M / M / M	1NO/1NC	D	00	X0	0X	—	5GET8	45J172
3	M / M / M	1NO/1NC	D	00	X0	0X	—	7A163 †	—
3	M / M / M	1NO/1NC	F	00	0X	X0	—	5GET9	—
3	M / M / M	2NO/2NC	F	00X0	0X00	X0X0	—	45C542	45J174
3	M / M / M	1NO/2NC	F	00X or 0X0	X00 or 0X0	0X0 or X00	—	7A164 †	—
3	M / M / M	1NO/1NC	F	0X	00	X0	—	—	45J173
3	M / M / M	1NO/1NC	F	0X or 00	00 or 0X	X0 or X0	—	7A162 †	—
3	M / M / M	2NO/2NC	J	0X0X	X0X0	0XX0	—	45C544	45J175
3	M / M / S	1NO/1NC	C	0X	00	X0	—	5GEU6	5CFJ5
3	S / M / M	1NO/1NC	C	0X	00	X0	—	5GEU3	5GER0
3	S / M / S	1NO/1NC	C	0X	00	X0	—	45C545	—
3	S / M / S	1NO/1NC	C	0X	00	X0	—	5GEU0	5GEP8
3	S / M / S	2NO/2NC	C	0X0X	0000	X0X0	—	45C546	—
4	M / M / M / M	1NO/1NC	H	000 or 0X0	X00 or 00X	00X or X00	0X0 or 000	7A165 †	—
4	M / M / M / M	1NO/1NC	H	00 or 0X	X0 or 00	00 or X0	0X or 00	7A166 †	—
4	M / M / M / M	2NO/2NC	H	000X	X000	00X0	0X00	5GEU8	5CFJ6
Extended Lever									
2	M / M	1NO/1NC	E	0X	X0	—	—	5GER3	45J164
2	M / M	1NO/1NC	E	0X	X0	—	—	5GER2	45J163
2	M / M	2NO/2NC	E	0X0X	X0X0	—	—	5GER4	45J165
2	M / S	1NO/1NC	D	X0	0X	—	—	5GET1	5CFJ2
2	S / M	1NO/1NC	E	0X	X0	—	—	5GER9	5CFJ0
3	M / M / M	1NO/1NC	B	X0	X0	0X	—	5GET4	—
3	M / M / M	1NO/1NC	C	0X	00	X0	—	45C541	—
3	M / M / M	1NO/1NC	C	0X	00	X0	—	5GET6	5CFJ4
3	M / M / S	1NO/1NC	C	0X	00	X0	—	5GEU7	—
3	S / M / M	1NO/1NC	C	0X	00	X0	—	5GEU4	5GER1
3	S / M / S	1NO/1NC	C	0X	00	X0	—	45C547	45J178
3	S / M / S	1NO/1NC	C	0X	00	X0	—	5GEU1	5GEP9
3	S / M / S	2NO/2NC	C	0X0X	0000	X0X0	—	45C548	—
4	M / M / M / M	1NO/1NC	H	000X	X000	00X0	0X00	5GEU9	5CFJ7



Standard
No. 5GET3



Extended
No. 5GER2



Keyed
No. 5GER5

Schneider Electric

30mm Selector Switch Combinations, Complete Units

Oiltight, watertight, and dust-tight. Include operator and contact block. NEMA rated: 3,3R,4,4X,6,13, plastic models also 4X. UL Listed, CSA and CE Certified. RoHS compliant and ABS Certified.

Position	Action	Contact Form	Cam	Key Removal	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Switch @ Pos. D	METAL Item No.
Keyed									
2	M / M	1NO/1NC	E	Left	0X	X0	—	—	5GER5
2	M / M	1NO/1NC	E	Right	0X	X0	—	—	5GER6
2	M / M	1NO/1NC	E	Left/Right	0X	X0	—	—	5GER7
2	M / M	2NO/2NC	E	Left and Right	0X0X	X0X0	—	—	45C538
2	M / S	1NO/1NC	D	Left	X0	0X	—	—	5GET2
3	M / M / M	1NO/1NC	C	Any Position	0X	00	X0	—	5GET7
3	S / M / M	1NO/1NC	C	Center and Right	0X	00	X0	—	5GEU5
3	S / M / S	1NO/1NC	C	Center	0X	00	X0	—	5GEU2
4	M / M / M / M	1NO/1NC	H	Any Position	000X	X000	00X0	0X00	5GEV0

*Note: X=Closed/On, O=Open/Off. * M=maintained contact, S=spring return momentary contact. † Unassembled versions.*

30mm Illuminated Operators

- Momentary operators
- Caps not included
- NEMA rated 4 and 13 without boots
- Plastic operators are NEMA 4X rated (corrosion-resistant)

Schneider Electric

Oiltight, watertight, and dust-tight. Ring nuts are interchangeable. Premium long-life, incandescent lamp included. A complete push button requires a contact block (see page 256) and cap, sold separately. UL Listed, CE and CSA Certified.

▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Type of Operator	▶CHOOSE: Bezel	Item No.
Full Voltage			
6VAC/DC; 12VAC/DC; 24VAC/DC; 120VAC	No Guard; Full Guarded Button; Extended Guarded Button	Plastic; Metal	H4484
Transformer			
120VAC; 208VAC; 240VAC; 480VAC	No Guard; Full Guarded Button; Extended Guarded Button	Plastic; Metal	H4530
Push Button Cap			
For Use With Schneider Illuminated Push Buttons	K1L, K2L, K3L, SK1L and SK2L Series	Yellow; White; Red; Green; Clear; Blue; Amber	H7108



No. H4484



No. H4530

Schneider Electric

30mm Nonilluminated Operators

- Notch-mount with contact blocks, sold separately
- NEMA rated 4 and 13 without boots
- Plastic models are NEMA 4X rated (corrosion-resistant)

Oiltight, watertight, and dusttight operators with interchangeable ring nuts and color inserts make design changes easy. A complete push button requires a contact block, sold separately, see page 256

EMERGENCY BREAK GLASS OPERATOR

Glass disc holds operator in depressed position. When disc is broken, button returns to normal extended position. Includes hammer and 5 discs.



No. H4522



No. H4518



No. H4517

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull			
40mm Mushroom Head	Amber; Black; Blue; Green; Red; Yellow	Metal; Plastic	H4522
40mm Mushroom Head	No Cap	Metal; Plastic	H4528
Momentary Push			
40mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red	Metal	H4527
Extended Button; Flush Button	Black; Green; Red	Metal; Plastic	H4518
Extended Button; Flush Button	Multi	Metal; Plastic	H4517
Maintained Push / Turn To Release			
30mm Dia. Mushroom Head; 40mm Mushroom Head	Red	Plastic; Metal	H7010
Maintained Push / Maintained Pull			
40mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red; Amber; Blue; Clear; White; Yellow	Metal; Plastic	H4526
40mm Mushroom Head	Black; Green; Red	Metal	H4539 *
40mm Mushroom Head	No Cap	Metal; Plastic	H4533
60mm Mushroom Head	Black; Green; Red	Metal	H4540
Maintained Push / Maintained Intermediate / Maintained Extended Key Lockable			
Flush Button	No Cap	Metal	2EN06
Maintained Push			
Emergency Break Glass Operator	Black	Metal	2EL29
Maintained 2 Position, Interlocked			
Full Guard	Black/Red; Green/Red; Red/Green	Metal; Plastic	H4531

Metal head.



Extended Knob
NEMA 4, 13
No. 2NLT8



Standard Knob
NEMA 4, 4X, 13
No. 5B445



Standard
Switch Knob
No. 5B576



Extended Handle
Switch Knob
No. 5B580

30mm Selector Switches

- Notch-mount
- NEMA 4X operators are corrosion-resistant
- NEMA rated 4 and 13 without boots

Multiple cam/contact block arrangement provides maximum flexibility. Knob or key is included, unless otherwise indicated. UL Listed, CSA Certified and CE Certified.

Cam	Type of Operator	Key Removal	NEMA 3, 3R, 4, 4X, 12, 13 Maintained Item No.	NEMA 3, 3R, 4, 12, 13 Maintained Item No.	Momentary R Item No.	Momentary L Item No.	Momentary L/R Item No.
2 Position							
D	Operator Not Included	No Key	**2NMN1**	**2NLR8**	**2NLT4**	—	—
D	Lever	No Key	**2NMN2**	**2EN56**	**5B504**	—	—
D	Keyed	Left and Right	—	**2NLT2**	—	—	—
D	Keyed	Left	—	**2NLR9**	**2EN59**	—	—
D	Keyed	Right	—	**2NLT1**	—	—	—
E	Operator Not Included	No Key	**5B449**	**5B510**	—	**2NLT3**	—
E	Lever	No Key	**5B448**	**5B509**	—	**5B505**	—
E	Keyed	Left/Right	—	**5B506**	—	—	—
E	Keyed	Left	—	**5B508**	—	—	—
E	Keyed	Right	—	**5B507**	—	**2EN57**	—
3 Position							
B	Operator Not Included	No Key	**6B328**	**5B502**	**5B486**	**5B488**	**5B491**
B	Lever	No Key	**5B447**	**5B501**	**2NLY6**	**2NLW6**	**2EN72**
B	Keyed	Center	—	**2NLT9**	**2NLY8**	**2NLW8**	**2NLV2**
B	Extended Lever	No Key	**2NMN5**	**2NLT8**	**2NLY7**	**2NLW7**	**2NLV1**
C	Operator Not Included	No Key	**5B446**	**5B499**	**5B485**	**5B487**	**5B490**
C	Lever	No Key	**5B445**	**5B498**	**2NLY9**	**2EN80**	**2EN74**
C	Keyed	Any Position	—	**2EN64**	—	—	—
C	Keyed	Center	—	**2EN65**	**2NLZ2**	**2NLX1**	**2EN76**
C	Extended Lever	No Key	**2NMN6**	**2EN63**	**2NLZ1**	**2NLW9**	**2EN75**
F	Operator Not Included	No Key	**2NMN8**	**5B495**	**6B360**	**2NLX3**	**5B489**
F	Lever	No Key	**6B326**	**5B494**	**2NLZ4**	**2NLX4**	**2NLV4**
F	Keyed	Any Position	—	**2EN70**	—	—	—
F	Keyed	Center	—	**2NLU2**	**2NLZ5**	—	**2NLV5**
G	Operator Not Included	No Key	—	—	**2NLZ6**	—	**2NLV6**
G	Lever	No Key	**2NMP1**	**5B493**	**2NLZ7**	**2NLX7**	**2NLV7**
G	Keyed	Any Position	—	**2NLU3**	—	—	—
G	Keyed	Center	—	—	**2NLZ8**	—	**2NLV8**
J	Operator Not Included	No Key	**2NMP2**	**2NLU5**	**2NLZ9**	—	**2NLV9**
J	Lever	No Key	**2NMP3**	**5B492**	**2NMA1**	**2NLY1**	**2NLW1**
J	Keyed	Any Position	—	**2NLU6**	—	—	—
J	Keyed	Center	—	**2NLU7**	**2NMA2**	**2NLY2**	**2NLW2**
L	Operator Not Included	No Key	**2NMN3**	**2NLT5**	—	—	**2NLU8**
L	Lever	No Key	**2NMN4**	**5B503**	**2NLY4**	**2NLW4**	**2EN71**
L	Keyed	Center	—	**2NLT7**	**2NLY5**	—	**2NLU9**
4 Position							
H	Operator Not Included	No Key	**5B444**	**5B484**	—	—	—
H	Lever	No Key	**6B325**	**5B483**	—	—	—
H	Keyed	Any Position	—	**5B482**	—	—	—

Style	Amber Item No.	Black Item No.	Blue Item No.	Clear Item No.	Green Item No.	Orange Item No.	Red Item No.	White Item No.	Yellow Item No.
Selector Switch Knobs									
Lever	**5B576**	**5B574**	**5B470**	**5B568**	**5B560**	**2NME4**	**5B462**	**5B438**	**5B432**
Extended Lever	**5B580**	**5B573**	**5B474**	**5B572**	**5B564**	**5B459**	**5B466**	**5B442**	**5B436**

30mm Schneider Electric Selector Switch/Contact Block Configurations

Contact Block Descriptions:

No. 5B535 = 1 Normally Closed; No. 5B536 = 1 Normally Open; No. 5B537 = 1 Normally Open and 1 Normally Closed

When viewed from the back, bottom side is side 1, and top side is side 2.

2-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:		When mounting it to:
5B535	D	Off	On	Side 2
5B536	D	On	Off	Side 2
5B537	D	Off	On	Side 1
	D	On	Off	Side 1
5B535	E	On	Off	Side 2
5B536	E	Off	On	Side 2
5B537	E	On	Off	Side 1
	E	Off	On	Side 1

4-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:				When mounting it to:
5B535	H	On	Off	Off	Off	Side 2
5B536	H	Off	Off	On	Off	Side 2
5B537	H	Off	Off	Off	On	Side 1
	H	Off	On	Off	Off	Side 1

3-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:			When mounting it to:
5B535	B	On	Off	Off	Side 2
5B536	B	Off	On	On	Side 2
5B537	B	Off	Off	On	Side 1
	B	On	On	Off	Side 1
5B535	C	On	Off	Off	Side 2
5B536	C	Off	Off	On	Side 2
5B537	C	On	Off	Off	Side 1
	C	Off	Off	On	Side 1
5B535	D	Off	Off	On	Side 2
5B536	D	Off	On	Off	Side 2
5B537	D	Off	Off	On	Side 1
	D	Off	On	Off	Side 1
5B535	E	On	Off	Off	Side 2
5B536	E	Off	On	Off	Side 2
5B537	E	On	Off	Off	Side 1
	E	Off	On	Off	Side 1

3-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:			When mounting it to:
5B535	F	On	Off	Off	Side 2
5B536	F	Off	Off	On	Side 2
5B537	F	Off	On	Off	Side 1
	F	Off	Off	On	Side 1
5B535	G	On	Off	Off	Side 2
5B536	G	Off	On	On	Side 2
5B537	G	Off	Off	On	Side 1
	G	On	Off	Off	Side 1
5B535	J	On	Off	Off	Side 2
5B536	J	Off	On	On	Side 2
5B537	J	On	Off	On	Side 1
	J	Off	On	Off	Side 1
5B535	L	Off	On	Off	Side 2
5B536	L	On	Off	Off	Side 2
5B537	L	Off	Off	On	Side 1
	L	Off	On	Off	Side 1



No. 5B537

30mm Contact Blocks

- NEMA rated A600-P600
- #12 to 24 AWG wire range allows use of more common small wire sizes

Finger-safe terminals are at 20° angle to eliminate interference with other contact blocks mounted in tandem. Feature double-break fine silver contacts with wiping action.

Description	Contact Rating	1NO Mfr. Model	1NO Item No.	1NC Mfr. Model	1NC Item No.	1NC/1NO Mfr. Model	1NC/1NO Item No.
Standard Direct Acting	10A @ 600VAC	9001KA2	**5B536**	9001KA3	**5B535**	9001KA1	**5B537**
Early Closing	10A @ 600VAC	—	—	—	—	9001KA4	**5B534**
Late Opening	10A @ 600VAC	—	—	9001KA5	**5B533**	—	—
Hermetically Sealed, Low Energy Reed Switch	0.5A @ 120VAC	9001KA42	**2EL93**	9001KA43	**2XVK5**	9001KA41	**2EL92**
Hermetically Sealed, Power Reed	3A @ 240VAC	9001KA52	**2XVK6**	9001KA53	**2EL98**	9001KA51	**2EL96**
Alternate Action (Push-On/Push-Off) Module, Holds Contacts in Maintained Position, Use w/Max. of 2 Contact Blocks						9001K85	**5B539**

30mm Nonilluminated Push Buttons—Complete Units

- Contacts rated: 10A, 600V

Universal colors include 4 separate color caps. UL Listed and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Contact Form	▶CHOOSE: Legend	Item No.
Momentary Push				
35mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red; Yellow	1NC; 1NO	No Legend	**H4169**
35mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red; Yellow	1NO/1NC	No Legend	**H4171**
35mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red; Yellow	2NO/2NC	No Legend	**H4154**
35mm Mushroom Head; 60mm Mushroom Head	No Cap	1NC; 1NO	No Legend	**H4168**
35mm Mushroom Head; 60mm Mushroom Head	No Cap	1NO/1NC	No Legend	**H4170**
35mm Mushroom Head; 60mm Mushroom Head	No Cap	2NO/2NC	No Legend	**H4172**
Flush Button	Universal	1NC	Stop; Off	**H7063**
Flush Button	Universal	1NO	Start; No Legend; On	**H7065**
Flush Button; 65mm Mushroom Head	Universal	2NO/2NC	No Legend	**H5311**
Flush Button; Extended Button	Universal	1NC; 1NO	No Legend	**H4176**
Flush Button; Extended Button	Universal	1NC; 1NO	No Legend	**H5309**
Flush Button; Extended Button	Universal	1NO/1NC	No Legend	**H4177**
Flush Button; Extended Button	Universal	1NO/1NC	No Legend	**H5310**
Flush Button; Extended Button	Universal	2NO/2NC	No Legend	**H4178**
Momentary				
35mm Mushroom Head	Red	1NC	Emergency Stop	**6CKE2**
Maintained Push / Turn To Release				
35mm Mushroom Head	Red	1NC	Emergency Stop	**6CKH3**
Maintained Push / Maintained Pull				
35mm Mushroom Head	Red	1NC	Emergency Stop	**6CKE3**
35mm Mushroom Head	Red	1NO/1NC	No Legend	**6CKH4**


No. H4169


No. H5309


No. 6CKH4

30mm Selector Switches

- Material: chrome
- Maintained operation
- Black knob

Includes 1NO/1NC contact block and legend plate. UL Listed and CSA Certified.


No. 6CKH0

Position	Includes	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Item No.
2	Legend Plate with Off-On Marking	OX	XO	No Third Position	**6CKH0**
3	Legend Plate with Hand-Off-Auto Marking	OOX	OXO	XOO	**6CKH2**

30mm Contact Blocks

- Contact rating: 10A, 600V
- For use with GE CR104P operators


Contact Block
No. 6CKH6

Contact Form	Color	Mfr. Model	Item No.
1NC	Red	CR104PXC01	**6CKH6**
1NO	Green	CR104PXC1	**6CKH7**
1NC/1NO	White	CR104PXC91	**6CKH8**

EATON SIEMENS Schneider Electric Dayton

30mm Pilot Lights

- Round shape
- Plastic lens
- Screw clamp terminals

Models with LED lamps provide 100,000 hr. of life. Rated NEMA 1, 3, 3R, 4, 12, and 13. Plastic versions also NEMA 4X. UL Listed and CSA Certified.


Siemens
No. H5398


Eaton
No. H6724


Dayton
No. H6726


Schneider
No. H4506

Lamp Module Type	Lamp Type	▶CHOOSE: Voltage	▶CHOOSE: Basic Material	▶CHOOSE: Color	Brand/Series	Item No.
Pilot Light Complete						
Full Voltage	Incandescent	24VAC/DC; 120VAC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4429**
		24VAC/DC; 120VAC	Metal	Amber; Green; Red; White	Siemens	**H5398**
		12VAC/DC; 24VAC/DC; 120VAC	Metal; Plastic	Amber; Green; Red; Yellow; Blue; White	Schneider Electric	**H4515**
	LED	24VAC/DC; 120VAC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton HT800 Series	**H6724**
		24VAC/DC; 120VAC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4426**
		24VAC/DC; 120VAC	Metal	Amber; Green; Red; White	Siemens	**H5402**
		24VAC/DC; 120VAC; 120VAC/DC	Plastic; Metal	Amber; Blue; Green; Red; White; Yellow	Dayton	**H6726**
Transformer	Incandescent	120VAC	Plastic; Metal	Amber; Green; Red; White; Yellow	Schneider Electric	**H4506**
		120VAC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4427**
		120VAC; 240VAC; 480VAC	Metal	Amber; Green; Red; White	Siemens	**H5400**
	LED	120VAC	Plastic; Metal	Amber; Blue; Green; Red; White	Dayton	**H6729**
		120VAC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton HT800 Series	**H6727**
		120VAC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4423**
		120VAC; 240VAC; 480VAC	Metal	Amber; Green; Red; White	Siemens	**H5404**
Pilot Light Without Lens						
Full Voltage	Incandescent	6VAC/DC; 12VAC/DC; 24VAC/DC; 32VAC/DC; 48VAC/DC; 120VAC; 240VAC	Metal	—	Eaton 10250T Series	**H4392**
		6VAC/DC; 12VAC/DC; 24VAC/DC; 120VAC	Plastic; Metal	—	Schneider Electric	**H4477**
Transformer		120VAC; 208VAC; 240VAC; 480VAC	Plastic; Metal	—	Schneider Electric	**H4495**
		120VAC; 240VAC; 277VAC; 380VAC; 480VAC; 600VAC	Metal	—	Eaton 10250T Series	**H4393**
	LED	120VAC; 240VAC; 277VAC; 380VAC; 480VAC; 600VAC	Metal	—	Eaton 10250T Series	**H4391**
Push to Test Pilot Light Complete						
Full Voltage	LED	12VAC/DC; 24VAC/DC; 120VAC	Plastic; Metal	Green; Red; Yellow; Amber; Blue	Schneider Electric	**H4513**
		24VAC/DC; 120VAC	Metal	Amber; Blue; Clear; Green	Eaton HT800 Series	**H6735**
		24VAC/DC; 120VAC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4420**
		24VAC/DC; 120VAC; 120VAC/DC	Metal; Plastic	Amber; Blue; Green; Red; White; Yellow	Dayton	**H6736**
Transformer	Incandescent	120VAC	Metal; Plastic	Amber; Green; Red; White; Yellow	Schneider Electric	**H4510**
		120VAC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4421**
	LED	120VAC	Plastic; Metal	Amber; Blue; Green; Red; White; Yellow	Dayton	**H6738**
		120VAC	Metal	Amber; Blue; Clear; Green	Eaton HT800 Series	**H6737**
		120VAC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4418**
Push to Test Pilot Light Without Lens						
Full Voltage	Incandescent	6VAC/DC; 12VAC/DC; 24VAC/DC; 32VAC/DC; 48VAC/DC; 120VAC; 240VAC	Metal	—	Eaton 10250T Series	**H4395**
		6VAC/DC; 12VAC/DC; 24VAC/DC; 120VAC	Plastic; Metal	—	Schneider Electric	**H4497**
Transformer		120VAC; 240VAC; 380VAC; 480VAC; 600VAC	Metal	—	Eaton 10250T Series	**H4394**
	LED	120VAC; 240VAC; 380VAC; 480VAC; 600VAC	Metal	—	Eaton 10250T Series	**H4419**



Slimline
No. 2VB70



Standard
No. 2W836



Extra Deep
No. 2VB69



304 Stainless Steel
No. 4KP15

30mm JIC and NEMA 12 and 13 Oiltight Push-Button Enclosures

HUBBELL WIEGMANN

- JIC Standard EL-1-71
- 14-ga. carbon steel
- ANSI 61 gray polyester powder-coated finish, except stainless steel
- Seam welded and ground smooth

Neoprene gasket and mounting flange ensure oiltight seal. Captive cover screws are threaded into deep-well hubs. Grounding stud included. UL Listed and CSA Certified.

No. of Holes	No. of Columns	H	W	D	Mfr. Model	Item No.
Slimline						
1	1	4.00"	2.50"	2.50"	PSL1	**2VB70**
2	1	6.25"	2.50"	2.50"	PSL2	**2VB72**
3	1	8.50"	2.50"	2.50"	PSL3	**2VB74**
4	1	10.75"	2.50"	2.50"	PSL4	**2VB76**
Standard						
1	1	3.50"	3.25"	2.81"	PB1	**2W834**
2	1	5.75"	3.25"	2.81"	PB2	**2W835**
3	1	8.00"	3.25"	2.81"	PB3	**2W836**
4	1	10.25"	3.25"	2.81"	PB4	**3A934**
6	2	9.50"	6.25"	3.09"	PB6	**2W837**
9	3	9.50"	8.50"	3.09"	PB9	**3A935**
12	3	11.75"	8.50"	3.09"	PB12	**3A936**
Extra Deep						
1	1	4.00"	4.00"	4.81"	PBXD1	**2VB65**
2	1	6.00"	4.00"	4.81"	PBXD2	**2VB66**
3	1	8.00"	4.00"	4.81"	PBXD3	**2VB67**
4	1	10.00"	4.00"	4.81"	PBXD4	**2VB68**
6	2	9.50"	8.50"	4.81"	PBXD6	**2VB69**
304 Stainless Steel						
1	1	3.50"	3.25"	2.81"	PBSS1	**4KP15**
2	1	5.75"	3.25"	2.81"	PBSS02	**4KP16**
3	1	8.00"	3.25"	2.81"	PBSS03	**4KP17**
4	1	10.25"	3.25"	2.81"	PBSS4	**4KP18**
6	2	9.50"	6.25"	3.09"	PBSS06	**4KP19**



Metal Enclosure
No. 2EP71



Die-Cast Zinc Enclosure with Guard
No. 5GCD9



Die-Cast Zinc Enclosure
No. 5B478



Metal Enclosure
No. 2EP86

Schneider Electric

30mm Push-Button Enclosures

- ¾" NPT conduit entry

Surface mounted. Type KN-1, KN-6, and KN-7 legend plates will not fit on these enclosures.

No. of Holes	Color	NEMA Rating	H	W	D	Mfr. Model	Item No.
Metal Enclosures							
1	Gray	1, 3, 13	5.24"	4.18"	3.63"	9001KYAF1	**2NMA9**
2	Gray	1, 3, 13	7.74"	4.18"	3.63"	9001KYAF2	**2EP71**
3	Gray	1, 3, 13	10.24"	4.18"	3.63"	9001KYAF3	**2NMC1**
4	Gray	1, 3, 13	12.74"	4.18"	3.63"	9001KYAF4	**2NMC2**
Die-Cast Aluminum Enclosures with Guard							
1	Gray	4	3.63"	5.50"	4.00"	9001KYG1	**5GCD8**
1	Gray and Yellow	4	3.63"	5.50"	4.00"	9001KYG1Y	**5GCD9**
Die-Cast Aluminum Enclosures							
1	Gray	1, 3, 4, 13	4.00"	3.63"	3.53"	9001KY1	**5B478**
2	Gray	1, 3, 4, 13	5.75"	3.63"	3.53"	9001KY2	**5B477**
3	Gray	1, 3, 4, 13	7.50"	3.63"	3.53"	9001KY3	**5B476**
4	Gray	1, 3, 4, 13	9.25"	3.63"	3.53"	9001KY4	**5B475**
Metal Enclosures							
1	—	1, 3, 4, 4X, 13	5.24"	4.18"	3.63"	9001KYSS1	**2EP86**
304 Stainless Steel Enclosures							
2	—	1, 3, 4, 4X, 13	7.74"	4.18"	3.63"	9001KYSS2	**2NME1**
Plastic Enclosures							
1	Gray	1, 3, 4, 4X, 13	6.63"	3.81"	3.88"	9001SKY1	**2ER70**
2	Gray	1, 3, 4, 4X, 13	6.63"	3.81"	3.88"	9001SKY2	**2NMR3**
3	Gray	1, 3, 4, 4X, 13	8.88"	3.81"	3.88"	9001SKY3	**2NMR4**
Blanking Plugs							
—	Gray	—	—	—	—	9001K51	**5B543**
—	Black	—	—	—	—	9001K52	**5B542**



Enclosure
No. 2AAR9



Push-Button Enclosure
No. 2VB54



Base
No. 2VB99



Column
No. 2VE11

HUBBELL WIEGMANN

JIC and NEMA 12 and 13 Sloped Enclosures

- Carbon steel
- ANSI 61 gray polyester powder-coated finish
- Seam welded and ground smooth

UL Listed, CSA Certified.

ENCLOSURES

Angled face ensures all installed devices face operator. Enclosures have grounding provision. Captive cover screws are threaded into deep-well hubs.

Sloped Top

Enclosure can be mounted to create either a 30° or 60° angle for the control surface. Continuously hinged cover along bottom edge.

Push-Button

Accept all standard 30mm 4-way push buttons, switches, and pilot lights. Top and bottom mounting plate.

PEDESTAL COLUMNS AND BASES

Supports sloped-top enclosures.

Columns

Pedestal columns provide passage-way for wiring. Flanged at both ends with a gasketed cover plate. Include access plate, gaskets, screws, and box connective fittings. Angled pedestal has a 45° angle at top.

Bases

Floor-mounted with a square pattern of holes to fit a wiring column or other flanged device. Include leveling screws.

Description	H	W	D	Item No.
Sloped Top Enclosure	8.00"	8.00"	7.00"	**2VB90**
Sloped Top Enclosure	8.00"	12.00"	7.00"	**2VB91**
Sloped Top Enclosure	8.00"	16.00"	7.00"	**2VB92**
Sloped Top Enclosure	8.00"	20.00"	7.00"	**2AAR9**
Sloped Top Enclosure	12.00"	12.00"	9.00"	**2VB93**
Sloped Top Enclosure	12.00"	16.00"	9.00"	**2VB94**
Sloped Top Enclosure	12.00"	20.00"	9.00"	**2VB95**
Sloped Top Enclosure	12.00"	24.00"	9.00"	**2AAT1**
Sloped Top Enclosure	16.00"	16.00"	11.00"	**2VB96**
Sloped Top Enclosure	16.00"	20.00"	11.00"	**2VB97**
Sloped Top Enclosure	16.00"	24.00"	11.00"	**2AAT2**
Sloped Top Enclosure	16.00"	30.00"	11.00"	**2AAT3**
Sloped Top Enclosure	20.00"	20.00"	13.00"	**2VB98**
Sloped Top Enclosure	20.00"	24.00"	13.00"	**2ACB7**
Sloped Top Enclosure	20.00"	30.00"	13.00"	**2AUB4**
Sloping Front Pushbutton Enclosure, 1 Column, 1 Hole	3.50"	3.25"	4.78"	**2VB54**
Sloping Front Pushbutton Enclosure, 1 Column, 2 Hole	3.50"	5.50"	4.78"	**2VB55**
Sloping Front Pushbutton Enclosure, 1 Column, 3 Hole	3.50"	7.75"	4.78"	**2VB56**
Sloping Front Pushbutton Enclosure, 1 Column, 4 Hole	3.50"	10.00"	4.78"	**2VB57**
Sloping Front Pushbutton Enclosure, 3 Column, 6 Hole	7.25"	8.50"	6.66"	**2VB58**
Straight Pedestal Column	35.00"	4.00"	4.00"	**2VE11**
Angled Pedestal Column	41.00"	4.00"	4.00"	**2VE12**
Straight Pedestal Column	35.00"	6.00"	6.00"	**2VE13**
Pedestal Base	1.00"	18.00"	18.00"	**2VB99**
Pedestal Base	1.00"	24.00"	24.00"	**2VE10**

Panel-Mount Switches

POWER 1 FIRST

- Bat toggle: 1 1/16"L on Nos. 2VLN2, 2VLN9, 2VLP2, 2VLP4, 2VLU1, and 2VLU2; ¾"L on all others
- Toggle switch stem is ½" dia. x ½"L

Applications include appliances, equipment, power tools, lighting control, and other switching functions. UL Listed.

Toggle switches include mounting nut. Tabs are ¼" quick-connect.



Screw Terminals
No. 2VLN5



2-Pole
No. 2VLU1



Quick Connect Tab Terminals
No. 2VLT8



Push Switch
No. 2VLN3



Rotary Switch
No. 2VLR8

Switch Function	AC Contact Rating	HP	1-POLE Terminals	1-POLE Contact Form	1-POLE Item No.	2-POLE Terminals	2-POLE Contact Form	2-POLE Item No.	3-POLE Terminals	3-POLE Contact Form	3-POLE Item No.	
Toggle Switches, 0.50" dia. Mounting Hole												
Momentary On/Off	20A @ 125VAC, 15A @ 277VAC	1½	Quick Connect	SPST	**2LMZ1**	—	—	—	—	—	—	
Momentary On/Off/Momentary On	20A @ 125VAC, 15A @ 277VAC	1½	Screw	SPDT	**2VLT2**	—	—	—	—	—	—	
On/Momentary Off	20A @ 125VAC, 15A @ 277VAC	1½	Screw	SPST	**2VLT1**	—	—	—	—	—	—	
On/Momentary Off	20A @ 125VAC, 15A @ 277VAC	1½	Quick Connect	SPST	**2LMZ2**	—	—	—	—	—	—	
On/Off	6A @ 125VAC, 3A @ 250VAC	—	Screw	SPST	**2VLN2**	—	—	—	—	—	—	
On/Off	16A @ 125VAC, 8A @ 250VAC	1	—	—	—	Screw	DPST	**2VLP2**	—	—	—	
On/Off	20A @ 125VAC, 15A @ 277VAC	2	Screw	SPST	**2VLN5**	Quick Connect	DPST	**2VLU1**	Quick Connect	3PST	**2LMY7**	*
On/Off	20A @ 125VAC, 15A @ 277VAC	2	Quick Connect	SPST	**2VLT7**	—	—	—	Screw	3PST	**2VLT3**	
On/Off/Momentary On	20A @ 125VAC, 15A @ 277VAC	1½	Quick Connect	SPDT	**2LMZ4**	—	—	—	—	—	—	
On/Off/On	20A @ 125VAC, 15A @ 277VAC	2	Screw	SPDT	**2VLN7**	—	—	—	—	—	—	
On/Off/On	20A @ 125VAC, 15A @ 277VAC	2	Quick Connect	SPDT	**2VLT9**	—	—	—	—	—	—	
On/On	20A @ 125VAC, 15A @ 277VAC	2	—	—	—	Quick Connect	DPDT	**2VLU2**	Screw	3PDT	**2VLP6**	
On/On	20A @ 125VAC, 15A @ 277VAC	2	Quick Connect	SPDT	**2VLT8**	Screw	DPDT	**2VLN9**	Quick Connect	3PDT	**2LMY8**	*†

Description	AC Contact Rating	Contact Form	Terminals	Item No.	Pkg. Qty.
Toggle Switch Accessories					
Legend Plate, On/Off	—	—	—	**2VLP5**	25
Miniature Push Button Switches, ½" Mounting Hole					
On/Off	6A @ 125VAC, 3A @ 250VAC	SPST	Screw	**2VLN3**	1
Off/Momentary On	16A @ 125VAC, 10A @ 250VAC	SPST	Screw	**2VLP7**	1
Rotary Switches, ½" Mounting Hole					
Off/On/On/On	13A @ 125V, 6.5A @ 250V	SP3T	Solder Lug	**2VLR8**	1
Off/On/On/On/On	13A @ 125V, 6.5A @ 250V	SP4T	Solder Lug	**2VLT6**	1

Rated 24A @ 125VAC. † Includes seal boot and legend plate.

Honeywell

TL Series Toggle Switches

- Rated 10A up to 277V
- Temp. range: -85° to 160°F
- ½" dia. hole mounting

Feature thermoset phenolic case and silver cadmium oxide contacts. UL Listed and CSA Certified.



Standard Lever
No. 24D288



Lever-Lock
No. 24D323



Standard Lever
No. 24D363

Switch Function	Terminals	HP	1-POLE Contact Form	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Contact Form	2-POLE Mfr. Model	2-POLE Item No.	4-POLE Contact Form	4-POLE Mfr. Model	4-POLE Item No.
Standard Lever											
Momentary On/Off	Screw	½	SPST	1TL1-6	**24D311**	DPST	2TL1-6	**24D344**	—	—	—
Momentary On/Off	Screw	1	SPST	1TL1-61	**24D312**	DPST	2TL1-61	**24D345**	4PST	4TL1-6	**24D365**
Momentary On/Off	Screw	1	—	—	—	—	—	—	4PST	4TL1-61	**24D366**
Momentary On/Off/Momentary On	Screw	½	SPDT	1TL1-7	**24D313**	DPDT	2TL1-7	**24D347**	4PDT	4TL1-7	**24D367**
Momentary On/Off/On	Screw	½	SPDT	1TL1-5	**24D309**	DPDT	2TL1-5	**24D337**	4PDT	4TL1-5	**24D362**
Momentary On/On	Screw	½	SPDT	1TL1-8	**24D316**	DPDT	2TL1-8	**24D351**	4PDT	4TL1-8	**24D370**
Momentary On/On	Solder Lug	½	—	—	—	DPDT	12TL1-8	**24D293**	—	—	—
Momentary On/On/Momentary On	Screw	½	—	—	—	DPDT	2TL1-72	**24D349**	4PDT	4TL1-70	**24D368**
Momentary On/On/Momentary On	Screw	½	—	—	—	—	—	—	4PDT	4TL1-72	**24D369**
Momentary On/On/Momentary On	Screw	1	—	—	—	DPDT	2TL1-70	**24D348**	—	—	—
Momentary On/On/On	Screw	½	—	—	—	DPDT	2TL1-50	**24D338**	4PDT	4TL1-50	**24D363**
Momentary On/On/On	Screw	½	—	—	—	DPDT	2TL1-56	**24D342**	—	—	—
Off/On	Solder Lug	1	SPST	11TL1-2	**24D288**	—	—	—	—	—	—
On/Momentary Off	Screw	½	SPST	1TL1-4	**24D308**	DPST	2TL1-4	**24D336**	—	—	—
On/Momentary On	Screw	½	—	—	—	DPDT	2TL1-51	**24D341**	4PDT	4TL1-51	**24D364**
On/Off	Screw	1	SPST	1TL1-2	**24D298**	DPST	2TL1-2	**24D328**	4PST	4TL1-2	**24D356**
On/Off	Screw	1	SPST	1TL1-21	**24D299**	DPST	2TL1-21	**24D329**	4PST	4TL1-21	**24D357**
On/Off/On	Screw	1	SPDT	1TL1-1	**24D295**	DPDT	2TL1-1	**24D321**	4PDT	4TL1-1	**24D352**
On/Off/On	Solder Lug	1	SPDT	12TL1-1	**24D290**	—	—	—	—	—	—
On/On	Screw	1	—	—	—	DPDT	2TL1-31	**24D333**	4PDT	4TL1-31	**24D359**
On/On	Screw	1	SPDT	1TL1-3	**24D303**	DPDT	2TL1-3	**24D331**	4PDT	4TL1-3	**24D358**
On/On	Solder Lug	1	SPDT	11TL1-3	**24D289**	—	—	—	—	—	—
On/On/On	Screw	1	—	—	—	DPDT	2TL1-10	**24D322**	4PDT	4TL1-10	**24D353**
On/On/On	Screw	1	—	—	—	DPDT	2TL1-12	**24D324**	4PDT	4TL1-12	**24D354**
Lever-Lock											
Momentary On/Off/Momentary On	Screw	½	SPDT	1TL1-7L	**24D315**	—	—	—	—	—	—
Momentary On/Off/Momentary On	Screw	½	SPDT	1TL1-7E	**24D314**	DPDT	2TL1-7E	**24D350**	—	—	—
Momentary On/On	Screw	½	SPDT	1TL1-8F	**24D317**	—	—	—	—	—	—
Momentary On/On/On	Screw	½	—	—	—	DPDT	2TL1-50E	**24D339**	—	—	—
On/Off	Screw	1	SPST	1TL1-2G	**24D302**	—	—	—	—	—	—
On/Off	Screw	1	SPST	1TL1-2D	**24D301**	—	—	—	—	—	—
On/Off/On	Screw	1	SPDT	1TL1-1L	**24D297**	DPDT	2TL1-1A	**24D326**	—	—	—
On/On	Screw	1	SPDT	1TL1-3D	**24D305**	DPDT	2TL1-3D	**24D334**	4PDT	4TL1-3D	**24D360**
On/On	Screw	1	SPDT	1TL1-3F	**24D306**	DPDT	2TL1-3G	**24D335**	—	—	—
On/On/On	Screw	½	—	—	—	DPDT	2TL1-56M	**24D343**	—	—	—
On/On/On	Screw	1	—	—	—	DPDT	2TL1-12A	**24D325**	—	—	—
On/On/On	Screw	1	—	—	—	DPDT	2TL1-10A	**24D323**	4PDT	4TL1-12A	**24D355**


No. 1XWT3


No. 1XWT5


No. 1XWR1


No. 1XWT1

Tool and Motor Control Switches

- Brass/nickel-plated bushings

Excellent for power tool and motor control switch applications.

Contact Form	Switch Function	No. of Connec.	Terminals	Mounting Hole	HP	Mfr. Model	Item No.
Pull Chain Lever Switch, 6A @ 120V, 3A @ 250V							
SPST	On/Off	2	Wire Lead	15/32 Dia."	—	774035	**1XWT3**
Toggle Switch, 20A @ 125VAC, 10A @ 250VAC							
SPST	On/Off	2	Screw	0.50" dia.	¾	774019	**1XWT5**
SPST	On/Off	2	Screw	0.50" dia.	¾	774011	**4FRL6**
SPDT	On/Off/On	3	Quick Connect	0.50" dia.	¾	774027	**4FRL7** *
DPST	On/Off	4	Quick Connect	0.50" dia.	1½	774005	**1XWR1**
DPDT	On/On	6	Screw	0.50" dia.	1½	774015	**1XWR4**
DPDT	On/Off/On	6	Quick Connect	0.50" dia.	1½	774003	**1XWR8**
DPDT	Momentary On/Off/Momentary On	6	Screw	0.50" dia.	1½	774000	**1XWT1**
DPDT	On/Off/On	6	Screw	0.50" dia.	1½	774016	**1XWR7**
Toggle Switch Boot, Screw-On, Pkg. of 2						774020	**4FRL8**

**** Includes On/Off faceplate.***

Panel-Mount Switches

Applications include electric motors, appliances, power tools, light fixtures, and instruments.

Note: Toggle switches have 15/32-32UNS-2A threads.


No. 3XC60


No. 4X216


No. 1X692


No. 1A823


No. 10C582


No. 4X087


No. 2X464


No. 1X878


No. 10C560


No. 2X488


No. 10C569

Switch Function	Mounting Hole	AC Contact Rating	1-POLE Contact Form	1-POLE Terminals	1-POLE Item No.	2-POLE Contact Form	2-POLE Terminals	2-POLE Item No.
Lighted Rocker								
On/Off	0.830" x 1.450"	—	SPST	0.250" Quick Connect Tab	**10C587**	—	—	—
Lighted Rocker with 120V Light								
On/Off	0.470" x 1.070"	16A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**1A824**	—	—	—
On/Off	0.860" x 1.070"	15A @ 250VAC, 20A @ 125VAC	—	—	—	DPST	0.250" Quick Connect Tab	**3XC58**
On/Off	0.830" x 1.450"	15A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**3XC59**	—	—	—
On/Off	0.830" x 1.450"	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**3XC60**	—	—	—
On/Off	0.625" x 1.625"	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**4X216**	—	—	—
Lighted Rocker with 12V Light								
On/Off/On	0.830" x 1.450"	20A @ 12V	SPDT	0.250" Quick Connect Tab	**10C585**	—	—	—
On/Off/On	0.830" x 1.450"	—	—	—	—	DPDT	0.250" Quick Connect Tab	**10C586**
Miniature Push Button								
On/Off	½" dia.	6A @ 125VAC, 3A @ 250VAC	SPST	Screw	**1X692**	—	—	—
On/Off	½" dia.	20A @ 125VAC, 10A @ 250VAC	SPST	Screw	**10C568**	—	—	—
On/Mom. Off	½" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**2X901**	—	—	—
On/Mom. Off	½" dia.	6A @ 125VAC, 3A @ 277VAC	SPST	Wire Lead	**10C567**	—	—	—
Off/Mom. On	½" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**2X894**	—	—	—
Off/Mom. On	½" dia.	6A @ 125VAC, 3A @ 250VAC	SPST	Wire Lead	**10C566**	—	—	—
Polarity Reversing								
On/Off/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C576**
Reversing Toggle								
On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C577**
Mom. On/Off/Mom. On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C580**
Rocker								
On/Off	0.830" x 1.450"	15A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**3XC53**	DPST	0.250" Quick Connect Tab	**3XC55**
On/Off	0.830" x 1.450"	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**3XC54**	DPST	Screw	**3XC56**
On/Off	0.860" x 1.070"	20A @ 125V, 15A @ 250V	SPST	0.250" Quick Connect Tab	**3XC57**	—	—	—
On/Off	0.470" x 1.070"	16A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**1A822**	—	—	—
On/Off	0.470" x 1.070"	16A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**1A823**	—	—	—
On/Off	0.830" x 1.450"	20A @ 12V	SPST	0.250" Quick Connect Tab	**10C582**	—	—	—
Mom. On/Off/Mom. On	0.830" x 1.450"	20A @ 12V	—	—	—	DPDT	0.250" Quick Connect Tab	**10C583**
Mom. On/Off	0.830" x 1.450"	15A @ 125VAC, 10A @ 250VAC	SPST	0.250" Quick Connect Tab	**10C584**	—	—	—
Rotary								
On/Off	⅜"	3A @ 125VAC	SPST	6" Wire Lead	**4X215**	—	—	—
Off/On/On/On/On	15/32"	6A @ 125VAC	SP4T	Solder Lug	**4X739**	—	—	—
Off/On/On/On	15/32"	4A @ 125VAC	SP3T	Solder Lug	**4X087**	—	—	—
Toggle								
On/On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SP3T	Quick Connect	**10C575**	—	—	—
On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Quick Connect	**4X847**	DPDT	Quick Connect	**4X850**
On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C570**
On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Screw	**2X465**	DPDT	Screw	**2X468**
On/Off/On	0.50" dia.	20A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Screw	**10C563**
On/Off/On	0.50" dia.	20A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C561**
On/Off/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C571**
On/Off/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Quick Connect	**4X848**	DPDT	Quick Connect	**4X851**
On/Off/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Screw	**2X466**	DPDT	Screw	**2X469**
On/Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Quick Connect	**4X846**	DPST	Quick Connect	**4X849**
On/Off	0.50" dia.	20A @ 125VAC, 10A @ 250VAC	SPST	Quick Connect	**10C565**	DPST	Quick Connect	**10C560**
On/Off	0.50" dia.	16A @ 125VAC, 8A @ 250VAC	—	—	—	DPST	Screw	**2X488**
On/Off	0.50" dia.	6A @ 125VAC, 3A @ 250VAC	SPST	Screw	**1X687**	—	—	—
On/Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**2X464**	DPST	Screw	**2X467**
On/Off	0.50" dia.	20A @ 125VAC, 10A @ 250VAC	—	—	—	DPST	Screw	**10C562**
On/Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPST	Quick Connect	**10C569**
On/Off	0.50" dia.	20A @ 125VAC, 10A @ 250VAC	SPST	Quick Connect	**10C564**	DPST	Screw	**2X633**
On/Off	0.50" dia.	6A @ 125VAC, 3A @ 250VAC	SPST	Wire	**1X878**	—	—	—
On/Mom. Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**4X201**	—	—	—
Off/Circuit 1 On/ Circuit 1&2 Mom. On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	—	—	—	DPDT	Quick Connect	**10C581**
Mom. On/Off/Mom. On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Screw	**4X203**	—	—	—
Mom. On/Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPST	Screw	**4X200**	—	—	—
Circuit 1&2 On, Circuit 1 On, Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Quick Connect	**10C579**	—	—	—
3 Position, Circuit 2 On, Circuit 1 On, Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	SPDT	Quick Connect	**10C578**	—	—	—
Toggle with 12V Light								
On/Off/On	0.50" dia.	20A @ 12V	SPDT	Quick Connect	**10C573**	DPDT	Quick Connect	**10C574**
On/Off	0.50" dia.	20A @ 12V	SPST	Quick Connect	**10C572**	—	—	—

Contact Form	Terminals	Switch Function	Mounting Hole	AC Contact Rating	Item No.
3-Pole Toggle Switches					
3PST	Screw	On/Off	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	**4X208**
3PDT	Screw	On/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	**2X650**
3PDT	Screw	On/Off/On	0.50" dia.	15A @ 125VAC, 10A @ 250VAC	**2X594**
Accessory For Toggle Switches					
On/Off Legend Plate, Nickel Finish					**2X642**

Contact Form	Switch Function	HP	SCREW TERMINALS, STEP BASE Mfr. Model	SCREW TERMINALS, STEP BASE Item No.	QUICK CONNECT TERMINALS, STEP BASE Mfr. Model	QUICK CONNECT TERMINALS, STEP BASE Item No.	QUICK CONNECT TERMINALS Mfr. Model	QUICK CONNECT TERMINALS Item No.	
SPST	Mom. On/Off	½	1NT1-6	**24D390**	—	—	31NT91-6	**24D435**	
	Mom. On/Off	½	1NT1-61	**24D391**	—	—	—	—	
	On/Mom. Off	½	1NT1-4	**24D387**	—	—	—	—	
	On/Off	1	1NT1-21	**24D384**	—	—	31NT91-21	**24D430**	
	On/Off	1	1NT1-2	**24D383**	—	—	31NT91-2	**24D429**	
SPDT	Mom. On/Off/Mom. On	½	1NT1-7	**24D392**	—	—	31NT91-7	**24D437**	
	Mom. On/Off/On	½	1NT1-5	**24D388**	—	—	31NT91-5	**24D433**	
	Mom. On/On	½	1NT1-8	**24D393**	—	—	31NT91-8	**24D438**	
	On/Mom. On	½	1NT1-51	**24D389**	—	—	31NT91-51	**24D434**	
	On/Off/On	1	1NT1-1	**24D382**	—	—	31NT91-1	**24D428**	
	On/On	1	1NT1-3	**24D385**	—	—	31NT91-3	**24D431**	
	On/On	1	1NT1-31	**24D386**	—	—	—	—	
DPST	Mom. On/Off	½	2NT1-6	**24D413**	2NT91-6	**24D424**	32NT91-6	**24D449**	
	Mom. On/Off	½	2NT1-61	**24D414**	—	—	32NT91-61	**24D450**	
	Mom. On/On/On	½	—	—	—	—	32NT91-50	**24D448**	
	On/Mom. Off	½	2NT1-4	**24D409**	—	—	32NT91-4	**24D446**	
	On/Off	1	2NT1-21	**24D406**	—	—	32NT91-21	**24D443**	
	On/Off	1	2NT1-2	**24D405**	2NT91-2	**24D420**	32NT91-2	**24D442**	
DPDT	Mom. On/Off/Mom. On	½	2NT1-7	**24D415**	2NT91-7	**24D425**	32NT91-7	**24D451**	
	Mom. On/Off/Mom. On	½	—	—	—	—	32NT391-7-C08	**24D474**	*
	Mom. On/Off/On	½	2NT1-5	**24D410**	2NT91-5	**24D422**	32NT91-5	**24D447**	
	Mom. On/On	½	2NT1-8	**24D417**	2NT91-8	**24D427**	32NT91-8	**24D453**	
	Mom. On/On/Mom. On	½	2NT1-70	**24D416**	2NT91-70	**24D426**	32NT91-70	**24D452**	
	Mom. On/On/On	½	2NT1-50	**24D411**	—	—	—	—	
	On/Mom. On	½	2NT1-51	**24D412**	—	—	—	—	
	On/Off/On	1	2NT1-1	**24D402**	2NT91-1	**24D418**	32NT91-1	**24D439**	
	On/Off/On	1	—	—	—	—	32NT391-1-C08	**24D481**	*
	On/On	1	2NT1-31	**24D408**	—	—	32NT91-31	**24D445**	
	On/On	1	2NT1-3	**24D407**	—	—	32NT91-3	**24D444**	
	On/On/On	1	2NT1-12	**24D404**	—	—	—	—	
	On/On/On	1	2NT1-10	**24D403**	—	—	32NT91-12	**24D441**	
4PST	Mom. On/Off	½	4NT1-61	**24D462**	—	—	—	—	
4PDT	Mom. On/Off	½	4NT1-6	**24D461**	—	—	—	—	
	Mom. On/Off/Mom. On	½	4NT1-7	**24D463**	—	—	—	—	
	Mom. On/Off/On	½	4NT1-5	**24D459**	—	—	—	—	
	Mom. On/On	½	4NT1-8	**24D465**	—	—	—	—	
	Mom. On/On/Mom. On	½	4NT1-70	**24D464**	—	—	—	—	
	Mom. On/On/On	½	4NT1-50	**24D460**	—	—	—	—	
	On/Off	1	4NT1-2	**24D457**	—	—	—	—	
	On/Off/On	1	4NT1-1	**24D454**	—	—	—	—	
	On/On	1	4NT1-3	**24D458**	—	—	—	—	
	On/On/On	1	4NT1-12	**24D456**	—	—	—	—	
	On/On/On	1	4NT1-10	**24D455**	—	—	—	—	

Yellow flattened actuator lever.



No. 24D454



No. 24D428

Honeywell

NT Series Toggle Switches

- ½" dia. hole mounting
- Temp. range: -85° to 160°F

Feature a movable seal between the toggle lever and bushing and a sealed case to meet NEMA 3, 3R, 4, 13 and IP67/IP68 seal ratings. Suitable for aerial and scissor lifts, truck-mounted telehandlers, cranes and construction, agriculture and material handling equipment, factory-floor control units, and machine tool equipment manufacturers. UL Recognized. CSA Certified and CE Approved.

Contact Form	Switch Function	HP	SCREW TERMINALS Mfr. Model	SCREW TERMINALS Item No.	QUICK CONNECT TERMINALS Mfr. Model	QUICK CONNECT TERMINALS Item No.	SOLDER LUG TERMINALS Mfr. Model	SOLDER LUG TERMINALS Item No.
SPST	On/Off	¾	7500K14	**21EV88**	7501K15	**21EV90**	7546K38	**21EV98**
	On/Off	¾	7546K36	**21EV97**	XTD1A1A2	**21EW16**	7501K13	**21EV89**
	On/Off	¾	XTD1A2A2	**21EW17**	7546K40	**21EV99**	XTD1A3A2	**21EW18**
	Mom. On/Off	¾	XTD1F2A2	**21EW20**	XTD1F1A2	**21EW19**	XTD1F3A2	**21EW21**
SPDT	On/On	¾	7504K4	**21EV94**	XTD2C1A	**21EW25**	7505K4	**21EV95**
	On/On	¾	XTD2C2A	**21EW26**	—	—	XTD2C3A	**21EW27**
	On/Off/On	¾	7502K13	**21EV91**	XTD2B1A	**21EW22**	7503K13	**21EV92**
	On/Off/On	¾	XTD2B2A	**21EW23**	7503K15	**21EV93**	XTD2B3A	**21EW24**
	On/Off/Mom. On	¾	XTD2G2A	**21EW35**	XTD2G1A	**21EW34**	XTD2G3A	**21EW36**
	On/Mom. On	¾	XTD2D2A	**21EW29**	XTD2D1A	**21EW28**	XTD2D3A	**21EW30**
	Mom. On/Off/Mom. On	½	7509K5	**21EV96**	—	—	—	—
	Mom. On/Off/Mom. On	¾	XTD2E2A	**21EW32**	XTD2E1A	**21EW31**	XTD2E3A	**21EW33**
DPST	On/On	¾	7564K6	**21EW07**	—	—	7565K5	**21EW08**
	On/Off	¾	7560K5	**21EW01**	7561K6	**21EW03**	7561K4	**21EW02**
	On/Off	¾	7803K31	**21EW10**	—	—	7803K11	**21EW11**
	On/Off	5	7818K1	**21EW40**	—	—	—	—
	Off/On	¾	—	—	7565K7	**21EW09**	—	—
DPDT	On/Off/On	¾	7562K4	**21EW04**	7563K6	**21EW06**	7563K4	**21EW05**
	On/Off/On	1½	XTD4B2A	**21EW38**	XTD4B1A	**21EW37**	—	—
3PDT	On/On	¾	7702K2	**21EW13**	—	—	—	—
4PST	On/Off	¾	7690K8	**21EW14**	—	—	—	—
4PDT	On/On	¾	7694K4	**21EW15**	—	—	—	—
3PST	On/Off	¾	7700K2	**21EW12**	—	—	—	—



No. 21EV90



No. 21EW16

EATON

Toggle Switches

Include panel mounting. XT-Series are easy to install and have 0.48" dia. hole mounting. 7000-Series feature design flexibility to meet a variety of applications.

Honeywell

TS Series Toggle Switches

- Rated 20A at 125VAC, 10A at 277VAC
- HP rating: 1-pole ¾ HP, 2-pole ½ HP
- ½" dia. hole mounting

Switch Function	Contact Form	SCREW TERMINALS Mfr. Model	SCREW TERMINALS Item No.	QUICK CONNECT TERMINALS Mfr. Model	QUICK CONNECT TERMINALS Item No.
Momentary On/Off	SPST	11TS15-6	**24D488**	—	—
Momentary On/Off	DPST	12TS15-6	**24D498**	—	—
Momentary On/Off/Momentary On	SPDT	11TS15-7	**24D489**	11TS95-7	**24D491**
Momentary On/Off/Momentary On	DPDT	12TS15-7	**24D499**	—	—
Momentary On/Off/On	SPDT	11TS15-5	**24D487**	—	—
Momentary On/On/Momentary On	DPDT	—	—	12TS95-70	**24D502**
On/Off	SPST	11TS15-2	**24D486**	11TS95-2	**24D490**
On/Off	DPST	12TS15-2	**24D496**	—	—
On/Off/On	SPDT	11TS15-1	**24D485**	—	—
On/Off/On	DPDT	12TS15-1	**24D495**	—	—
On/On	DPDT	12TS15-3	**24D497**	12TS95-3	**24D501**



No. 24D501


No. 2VLP9


No. 2LND7


No. 2LNA5

Rocker Switches

Panel-mount switches are for appliances, equipment, power tools, motor and lighting control, and other uses. UL Listed. Tabs are ¼" quick-connect. Nos. 2VLN1, 2VLR5, 2VLR6, 2VLR7, and 2VLT5 feature indicating light.

Contact Form	No. of Connec.	Switch Function	AC Contact Rating	BLACK Screw Terminals Item No.	BLACK Tab Terminals Item No.	RED Screw Terminals Item No.	RED Tab Terminals Item No.	IVORY Screw Terminals Item No.	IVORY Tab Terminals Item No.
0.540" x 1.140" Mounting Hole									
SPDT	3	On/Off/On	16A @ 125V, 12A @ 250V	—	2LNA1	—	2LNA2	—	—
SPDT	3	On/On	16A @ 125V, 12A @ 250V	—	2LNA3	—	—	—	—
0.830" x 1.450" Mounting Hole									
SPST	2	Momentary On/Off	20A @ 125V, 15A @ 250V	2LNC2	2LNC3	2LNC4	2LNC5	2LNC6	2LNC7
SPST	2	On/Off	20A @ 125V, 15A @ 250V	2VLR1	2VLP9	2LNA6	2LNA7	2LNA8	2LNA9
SPST	3	On/Off Lighted	20A @ 125V, 15A @ 250V	2VLT5	—	—	—	—	—
SPST	3	On/Off Lighted	20A @ 125V, 15A @ 250V	2VLR7	—	—	—	—	—
SPDT	3	Momentary On/Off/Momentary On	20A @ 125V, 15A @ 250V	2LND5	2LND6	2LND7	2LND8	2LND9	2LNE1
SPDT	3	On/Off/On	20A @ 125V, 15A @ 250V	2LNC8	2LNC9	2LND1	2LND2	2LND3	—
SPDT	3	On/On	20A @ 125V, 15A @ 250V	2LNE2	2LNE3	2LNE4	2LNE5	2LNE6	2LNE7
DPST	4	Momentary On/Off	20A @ 125V, 15A @ 250V	2LNF3	2LNF4	2LNF5	2LNF6	2LNF7	2LNF8
DPST	4	On/Off	20A @ 125V, 15A @ 250V	2VLR3	2VLR2	2LNE8	2LNE9	2LNF1	2LNF2
DPDT	6	Momentary On/Off/Momentary On	20A @ 125V, 15A @ 250V	2LNH3	—	2LNH5	2LNH6	2LNH7	2LNH8
DPDT	6	On/Momentary On	20A @ 125V, 15A @ 250V	2LNH9	2LNJ1	2LNJ2	2LNJ3	2LNJ4	2LNJ5
DPDT	6	On/Off/Momentary On	20A @ 125V, 15A @ 277V	29FG39	—	29FG41	29FG42	29FG43	29FG44
DPDT	6	On/Off/On	20A @ 125V, 15A @ 250V	2LNF9	—	2LNG2	2LNG3	2LNG4	2LNG5
DPDT	6	On/On	20A @ 125V, 15A @ 250V	2LNG6	2LNG7	2LNG8	2LNG9	2LNH1	2LNH2
0.870" x 1.160" Mounting Hole									
SPST	2	On/Off	20A @ 125/250V	—	—	—	2LNA5	—	—
DPST	4	Momentary On/Off	20A @ 125/250V	—	29FG27	—	—	—	—
DPST	4	On/Off	20A @ 125/250V	—	29FG25	—	29FG26	—	—
DPDT	6	Momentary On/Off/Momentary On	20A @ 125/250V	—	29FG35	—	29FG36	—	—
DPDT	6	On/Momentary On	20A @ 125/250V	—	—	—	29FG34	—	—
DPDT	6	On/Off/On	20A @ 125/250V	—	29FG29	—	—	—	—
DPDT	6	On/On	20A @ 125/250V	—	29FG31	—	29FG32	—	—

NGR Series Illuminated Rocker Switches


No. 21EV72

- Rated ¾ HP
- ¼" tab terminals

Durable and ergonomic design with a matte finish. Suitable for a variety of vehicle and mobile applications. Illuminated models require rocker switch, 2 lenses, switch cover, and connector available separately.

Contact Form	Switch Function	Mfr. Model	Item No.
SPST	Off/On	NGR15061BNAAN	21EV72
	On/On	NGR15481BNAAN	21EV73
SPDT	On/Off/On	NGR15681BNAAN	21EV74
	Momentary On/Off/Momentary On	NGR15881BNAAN	21EV75
DPST	Off/On	NGR25061BNAAN	21EV77
DPDT	On/On	NGR25481BNAAN	21EV78
	On/Off/On	NGR25681BNAAN	21EV79
	Momentary On/Off/Momentary On	NGR25881BNAAN	21EV80

Description	GREEN Item No.	RED Item No.	AMBER Item No.	BLACK Item No.
Accessories For Illuminated Switches				
Rocker Switch Lens	21EV84	21EV85	21EV86	—
Rocker Switch Cover, Top and Bottom Opening	—	—	—	21EV83
Rocker Switch Connector	—	—	—	21EV87


Lighted Rocker
No. 3JC04


Lighted Toggle
No. 3HZ81


Push Button
No. 3HZ97


Rubber Boot
No. 3JC12

Panel-Mount DC Toggle and Rocker Switches

Popular replacement switches for marine applications. 12VDC rated, 5A lamp load, 15A inductive load. Toggle switches fit panels to 3/16" thick with provided backup nut, to ¼" thick without that nut. Toggle switches require a ½" mounting hole. Rocker switches require a 1½" x ⅞" rectangular opening.

Description	Contact Form	Switch Function	Mfr. Model	Item No.
Rocker	SPST	On/Off	MR11SP	3JC02
Rocker	SPST	Momentary On/Off	MR11MSP	3JC01
Rocker	SPDT	On/Off/On	MR123SP	3JC07
Rocker	SPDT	Momentary On/Off/On	MR123MSP	3JC06
Rocker	SPDT	Momentary On/Off/Momentary On	MR123MMSP	3JC05
Rocker	DPST	On/Off	MR21SP	3JC08
Rocker	DPDT	On/Off/On	MR223SP	3JC11
Rocker	DPDT	Momentary On/Off/Momentary On	MR223MMSP	3JC10
Lighted Rocker (Red)	SPST	On/Off	MR11LRSP	3HZ99
Lighted Rocker (Red)	SPDT	On/Off/On	MR123LRSP	3JC04
Toggle	SPST	Momentary On/Off	M11MSP	3HZ85
Toggle	SPDT	On/Off/On	M123SP	3HZ92
Toggle	SPDT	Momentary On/Off/On	M123MSP	3HZ91
Toggle	SPDT	Momentary On/Off/Momentary On	M123MMSP	3HZ90
Toggle	DPST	On/Off	M21SP	3HZ93
Toggle	DPDT	On/Off/On	M223SP	3HZ96
Toggle	DPDT	On/Off/On	M223JSP	3HZ94
Toggle	DPDT	Momentary On/Off/Momentary On	M223MMSP	3HZ95
Lighted Toggle (Green)	SPST	On/Off	M11LRGSP	3HZ81
Lighted Toggle (Red)	SPST	On/Off	M11LRSP	3HZ82
Lighted-Tip Toggle (Red)	SPST	On/Off	M11LTR	3HZ83
Push Button	SPST	Off/Momentary On	MH11	3HZ97

Description	Mfr. Model	Item No.
Black Silicone Rubber Boot Bonded to Brass Nut, Fits Any Nonlighted Toggle Switch	MSB1	3JC12
Black Push Button (Horn) Boot, Fits No. 3HZ97 Horn Push Button	MHB11	3HZ98

Switch Boots

- Temp. range: -80° to 400°F

Silicone sealing boots prevent moisture, salt spray, dirt, fungus, and other damaging materials from seeping into electronic equipment through switch connections. Ozone- and sunlight-resistant silicone rubber keeps buttons free from ice or packed dust buildup. Integral nickel-plated brass mounting nuts replace original switch connection nuts.

Thread Size	Inside Dia.	H	Mfr. Model	Item No.
Toggle Switch Boots				
¼-40NS	3/64"	¼"	N5032B 1	1UDJ9
¼-40NS	1/16"	½"	N5030L 3	1UDK1
¼-40NS	1/16"	19/32"	N5030S 1	1UDK2
15/32-32NS	5/64"	7/16"	N1030B	1UDJ7
15/32-32NS	7/32"	⅞"	N1030 1	1UDJ3 *
15/32-32NS	7/32"	⅞"	IN1030	1UDJ5
15/32-32NS	7/32"	15/16"	C1131/28 2202	1UDK3
15/32-32NS	5/8"	1 7/64"	50154 25	1UDK4
½-32NS	7/64"	7/16"	N1030B ½-32 1	1UDJ8
½-32NS	7/32"	⅞"	N1030 ½-32 1	1UDJ4 *
½-32NS	7/32"	⅞"	IN1030 ½-32 1	1UDJ6
Armored Toggle Switch Boots				
15/32-32NS	7/32"	⅞"	N1030A 1	1UDJ2
Push Button Boots				
¼-40NS	3/16"	5/16"	N5040 2	1UDL2 †
¼-40NS	3/16"	5/16"	N5040R 2	1UDL3 ‡
7/16-28NS	27/64"	35/64"	N3030 7/16-28 4	1UDK6
7/16-28NS	27/64"	23/32"	NC3030 7/16-28 4	1UDK8
15/32-32NS	27/64"	35/64"	N3030 2	1UDK5
15/32-32NS	27/64"	23/32"	NC3030 2	1UDK7
½-32NS	27/64"	35/64"	NH3030 2	1UDL1
5/8-24NEF	33/64"	39/64"	N3040 2	1UDK9
Rotary Switch Shaft Seals				
¼-40NEF	⅛"	7/32"	N9040X1/8 2	1UDL5
⅜-32NEF	¼"	7/32"	N9030X1/4 2	1UDL6

** Inner secondary seal safety feature. † 0.141" inner plunger clearance. ‡ 0.203" inner plunger clearance.*


No. 1UDJ7


No. 1UDJ3


No. 1UDJ2


No. 1UDK5


No. 1UDL5











LINEMASTER®
AMERICA'S FOOT SWITCH LEADER

Linemaster® Foot Switches







Series	Contact Form	Current Rating	HP	Voltage Rating	NEMA Rating	Foot-notes	Cord Type	Cord Length	Material	Color	L	W	D	Mfr. Model	Item No.
Light Duty Foot Switch, Momentary Action															
Air-Seal - Air	SPDT	20	1, 2	125/250VAC	4	8	Air Switch	10 ft.	Steel	Black	2⅞"	2¾"	1¼"	41SH12	**5KX03**
Compact	SPDT-NO	10	½	125/250VAC	1	—	16/3	6 ft.	Steel	Black	2⅞"	2½"	1³⁄₃₂"	491-SC36MP	**1AGP5**
	SPDT-NO	10	½	125VAC	1	1	16/3	8 ft.	Steel	Black	2⅞"	2½"	1¼"	491-SC3	**2A190**
	SPDT	10	½	125/250VAC	1	10	—	—	Steel	Black	2⅞"	2½"	1¼"	491-S	**2W809**
Executive	(2) SPDT	10	½	125/250VAC	1	3	—	—	Die Cast Zinc	Gray	4¾"	4¼"	1⅝"	72	**4A714**
Treadlite II	SPDT-NO	15	½	125VAC	1	1	14/3	8 ft.	Steel	Black	3½"	2⅝"	1"	T-91-SC3-A	**2A191**
	SPDT	15	½	125/250VAC	1	10	—	—	Steel	Black	3½"	2⅝"	1"	T-91-S	**2W810**
Treadlite II - Stainless Steel	SPST	3	—	125/250VAC	1, 4X, 6, 6P	—	18/3	8 ft.	Stainless Steel	SS	3½"	2⅝"	1"	T-91-SWANO38S	**5KX08**
	SPDT-NO	3	—	125VAC	1, 4X, 6, 6P	1	18/3	8 ft.	Stainless Steel	SS	3½"	2⅝"	1"	T-91-SWANO3S	**1AGP6**
Vanguard - Air	SPDT	20	(1)/(2)	125/250VAC	1	8	Air Switch	10 ft.	PVC	Black	2¾"	4⅝"	1¼"	81SH12	**1AGP7**
General Purpose Foot Switch, Maintained Action															
Clipper - Single	SPDT	20/10	1½	125/250VAC	1	10	—	—	Cast Iron	Black	4½"	3½"	1½"	632-DA	**2W808**
General Purpose Foot Switch, Momentary Action															
Aquiline® - Metal	(2) SPDT-NO	13	½	125/250VAC	1	9	16/4	8 ft.	Die Cast Zinc	Black	5½"	7¹⁵⁄₁₆"	1⅜"	TWIN 971-SMC48	**1AGP4**
Classic IV - Guarded	SPDT	16	½	125/250VAC	2, 4, 6, 6P, 13	4	—	—	Aluminum	Orange	7"	6"	4½"	88SH1-05	**1AGR3**
	(2) SPDT	16	½	125/250VAC	2, 4, 6, 6P, 13	4,9	—	—	Aluminum	Org/Blk	7"	11"	4½"	TWIN 88SH1-05	**1AGR4**
Classic IV - No Guard	SPDT-NO	16	½	125/250VAC	2, 4, 6, 6P, 13	—	14/3	8 ft.	Aluminum	Black	7"	4½"	2⅝"	88SN1B-05	**1AGR2**
	SPDT	16	½	125/250VAC	2, 4, 6, 6P, 13	—	—	—	Aluminum	Black	7"	4½"	2⅝"	88SN1-05	**1AGP9**
	(2) SPDT	16	½	125/250VAC	2, 4, 6, 6P, 13	9	—	—	Aluminum	Black	7"	7⅜"	2⅝"	TWIN 88SN1-05	**1AGR1**
Clipper - Single	SPST-NO	15	¾	125VAC	1	1	14/3	8 ft.	Cast Iron	Black	4½"	3½"	1½"	632-SC3	**2W463**
	SPDT	20	1	125/250VAC	1	10	—	—	Cast Iron	Black	4½"	3½"	1½"	632-S	**5X361**
	(2) SPDT	15/10	½	125/250VAC	1	7,10	—	—	Cast Iron	Black	4½"	3½"	1½"	636-S	**4A713**
Clipper - Twin & Wide Treadle	SPDT	20	1	125/250VAC	1	10	—	—	Cast Iron	Black	5½"	7"	1¾"	642-S	**5WB13**
	(2) SPDT	20	1	125/250VAC	1	9	—	—	Cast Iron	Black	4½"	8⅜"	1⅞"	TWIN 632-S	**1AGP3**
Explosion Proof - Industrial 500	SPDT	15 (10)	¾ (1)	125/250VAC	2, 7D, 9F	4	—	—	Aluminum	Org/Blk	10¼"	11"	4⅜"	592-EX	**1AGP1**
	(2) SPDT	15 (10)	¾ (1)	125/250VAC	2, 7D, 9F	4,9	—	—	Aluminum	Org/Blk	10¼"	11"	4⅜"	597-EX	**1AGP2**
Medium Duty Foot Switch, Momentary Action															
Varior - Potentiometer	N/A	15	—	125 to 250VAC	1	—	18/6	25 ft.	Steel	Black	12¾"	4½"	4"	OHASAA-1K	**4KA16**
	—	—	—	—	1	—	18/6	25 ft.	Steel	Black	10¼"	4½"	4"	OHASAB-10K	**4KA17**
	—	—	—	—	1	—	18/6	30 ft.	Steel	Black	10¼"	4½"	4"	OHASAD-10K	**4KA18**
Heavy Duty Foot Switch, Momentary Action															
Hercules Anti-Trip	SPDT	20	1	125/250VAC	2, 4, 13	4,5	—	—	Cast Iron	Orange	10"	6"	5½"	511-BG	**3X680**
Hercules - Full Shield	SPDT	20	1	125/250VAC	2, 4, 13	4	—	—	Cast Iron	Orange	9"	6"	4½"	531-SWH	**2W807**
	DPDT	20	1	125/250VAC	2, 4, 13	4	—	—	Cast Iron	Orange	9"	6"	4½"	532-SWH	**4A712**
Hercules - OX Shield	SPDT	20	1	125/250VAC	2, 4, 13	4,6	—	—	Cast Iron	Orange	9"	6"	6"	531-SWHOX	**5KX05**
Foot Switch Guards															
For use with general purpose and light-duty foot switches									Steel	Orange	6"	6"	4½"	522-B14	**2W811**
For use with general purpose and light-duty foot switches, oversized									Steel	Orange	6"	6"	6¼"	522-F28	**4KA15**
For use with twin foot switches									Steel	Orange	6"	11"	4½"	522-B12	**4KA19**
For use with twin foot switches, oversized									Formed Steel	Orange	6"	11"	6¼"	522-D28	**1AGP8**

Footnotes: 1—Includes piggy-back plug and connector. 3—Reversing with mechanical interlock. 4—Includes foot guard. 5—Antitrip and gate help prevent accidental actuation. 6—Extra-large opening. 7—Two-stage switching. 8—Air bulb/electric snap switch. 9—Two pedal operation. 10—Includes integral strain relief.

SQUARE D
by Schneider Electric

Square D Foot Switches

- 120-600V
- Yellow
- NEMA 2,4,13 rating







Features	Contact Form	Action	Current Rating	Voltage Rating	NEMA Rating	Color	Material	L	W	D	Mfr. Model	Item No.
Heavy Duty Foot Switch												
Fully Shielded	SPDT	Momentary	10	120/240/480VAC	2, 4, 13	Orange	Cast Aluminum	—	—	—	9002AW119	**2ET88**
Guarded	SPST	Maintained	6/3	120VAC	2, 4, 13	Yellow	Cast Aluminum	9"	5¹⁷⁄₃₂"	4²⁷⁄₃₂"	9002AW12	**2ET89**
Guarded	SPDT	Momentary	15	120 to 600VAC	2, 4, 13	Yellow	Steel	9"	5¹⁷⁄₃₂"	4²⁷⁄₃₂"	9002AW2	**2ET95**
Guarded	DPDT	Momentary	3	120 to 600VAC	2, 4, 13	Yellow	Steel	9"	5¹⁷⁄₃₂"	4²⁷⁄₃₂"	9002AW14	**2ET94**
Oversized Guard	SPDT	Momentary	15	120 to 600VAC	2, 4, 13	Yellow	Steel	11⅛"	6¹³⁄₃₂"	6¹⁷⁄₆₄"	9002AW132	**2ET92**
Oversized Guard with Safety Door	SPDT	Momentary	15	120 to 600VAC	2, 4, 13	Yellow	Steel	11⅛"	6¹³⁄₃₂"	6¹⁷⁄₆₄"	9002AW117	**2ET87**
Oversized Guard with Safety Door	DPDT	Momentary	10	120 to 600VAC	2, 4, 13	Yellow	Steel	11⅛"	6¹³⁄₃₂"	6¹⁷⁄₆₄"	9002AW124	**2ET90**
Shielded	DPDT	Momentary	—	120/240VAC	2, 4, 13	Orange	Cast Aluminum	—	—	—	9002AW133	**2ET93**
Shielded	(2) DPDT	Momentary	10	120/240/480VAC	2, 4, 13	Orange	Cast Aluminum	4.84"	5.38"	—	9002AW6	**2ET97**
Shielded	SPDT	Spring Return	10	120/240/480VAC	2, 4, 13	Orange	Cast Aluminum	—	—	—	9002AW7	**2ET98**
Unguarded	SPDT	Momentary	15	120 to 600VAC	2, 4, 13	Yellow	Cast Aluminum	8⁹⁄₁₆"	4½"	3⅞"	9002AW1	**2ET85**
Unguarded	DPDT	Momentary	3	120 to 600VAC	2, 4, 13	Yellow	Steel	8⁹⁄₁₆"	4½"	3⅞"	9002AW13	**2ET91**
Unshielded	SPDT	Maintained	—	120/240VAC	2, 4, 13	Orange	Cast Aluminum	8.56"	4.50"	3.88"	9002AW11	**2ET86**
Unshielded	(2) DPDT	Momentary	10	120/240/480VAC	2, 4, 13	Orange	Cast Aluminum	9.84"	10.87"	5.75"	9002AW5	**2ET96**

Foot Switch Safety

It is the responsibility of the foot switch user to determine the suitability of a particular foot switch for its intended use and to be certain that it complies with all federal, state, and local safety and health regulations. Using foot switches on machinery that lacks effective point-of-operation safeguards can cause serious injury. Foot switches should be used only where point-of-operation and pinch-point guarding devices have been properly installed and are utilized to protect the operator's hands.



Lever Arm
No. 5B087



Side Plunger
No. 5B083



Wobble Stick
No. 5B081



Adjustable Lever Arm
No. 5B065



Standard Lever Arm
No. 5B058



Forked Lever Arm
No. 5B060



Replacement Contact Body
No. 2EG11



Replacement Receptacle
No. 2EG22



Looped Arm
No. 5B066



Stainless Steel Rod
No. 5B069

by Schneider Electric

Class 9007 Heavy-Duty Limit Switches

- Enclosures: NEMA 1, 2, 4, 6, 6P, 12, and 13 (IP65, IP66, IP67)
- Contacts rated 10A, 600V
- Limit switch arm required
- ½" NPT conduit entry

Bodies and heads are die-cast zinc alloy. Oiltight for efficient operation. For additional limit switch replacement parts, see Grainger.com®.

UL Listed and CSA and CE Certified. Hazardous location units are UL Listed for Class I Div. 1 Groups B, C, D and Class II Groups E, F, G.

Description	Contact Form	Mfr. Model	Item No.	Item No	Item No	Item No
Lever Arm Types Adjustable CW and CCW, Spring Return, Lever Arm Required			**Standard 10° Travel**	**Low Differential 5° Travel**	**Light Torque 25 oz./in. 10° Travel**	**Maintained Lever Arms**
Standard Box Plug-In	1NC/1NO	9007C54	5B087	5B088	5B080	5B086
Standard Box Plug-In	2NC/2NO	9007C62	5B078	5B079	2UYH3	5B077
Standard Box Plug-In, 2-Stage	2NC/2NO	9007C66	2EF92	—	2UYH4	—
Compact Box Plug-In	1NC/1NO	9007C52	2EF74	2EF73	2EF80	2UYH7
Hazardous Location	1NC/1NO	9007CR53	2EG17	—	2UYH5	2UYH8
Hazardous Location	2NC/2NO	9007CR61	2EG19	—	2UYH6	2UYH9
Replacement Heads for Above	—	9007	2EF50	2EF27	2EG92	2EF71
Neutral (Off)	2NC/2NO	9007C68T	5B071	5B070	—	—
Side Plunger Types Spring Return			**Side Roller Vertical**	**Side Push Rod**	**Adj. Side Push Rod**	**Maintained Push Rod**
Standard Box Plug-In	1NC/1NO	9007C54	5B083	5B082	6B407	2UYJ9
Standard Box Plug-In	2NC/2NO	9007C62	5B074	5B073	6B408	2UYK1
Compact Box Plug-In	1NC/1NO	9007C52	2EF77	—	2UYJ7	2UYK2
Hazardous Location	1NC/1NO	9007CR53	2UYJ3	2UYJ5	—	2UYK3
Hazardous Location	2NC/2NO	9007CR61	2UYJ4	2UYJ6	2UYJ8	2UYK4
Replacement Heads for Above	—	9007	2EG54	2EG61	2EG62	2UYK5
Top Plunger Types Spring Return			**Roller**	**Push Rod**	**Adj. Push Rod**	**Palm Operated**
Standard Box Plug-In	1NC/1NO	9007C54	5B085	5B084	2EF85	2UYL4
Standard Box Plug-In	2NC/2NO	9007C62	5B076	5B075	2UYK9	2UYL5
Compact Box Plug-In	1NC/1NO	9007C52	2EF75	2EF76	2UYL1	2UYL6
Hazardous Location	1NC/1NO	9007CR53	2EG18	2UYK7	2UYL2	2UYL7
Hazardous Location	2NC/2NO	9007CR61	2UYK6	2UYK8	2UYL3	2UYL8
Replacement Heads for Above	—	9007	2EG24	2EG35	2EG53	2UYL9
Wobble Stick Types			**Wire Extensions**	**Delrin® Extensions**	**Coil Spring Extensions**	**Cat Whiskers**
Standard Box Plug-In	1NC/1NO	9007C54	2EF86	5B081	2F990	2F992
Standard Box Plug-In	2NC/2NO	9007C62	2UYN2	5B072	2UYN6	2UYP1
Compact Box Plug-In	1NC/1NO	9007C52	2UYN3	2EF79	2UYN7	—
Hazardous Location	1NC/1NO	9007CR53	2UYN4	—	2UYN8	2UYP3
Hazardous Location	2NC/2NO	9007CR61	2UYN5	2UYN1	2UYN9	2UYP4
Replacement Heads for Above	—	9007	2EG75	2EG74	2EG82	2EG83

Actuator Type	Roller Material	Arm Length	ROLLER DIA. x WIDTH 0.63" x 0.25" Item No.	0.63" x 0.63" Item No.	0.75" x 0.25" Item No.	0.75" x 0.63" Item No.	1.00" x 0.63" Item No.
Lever Arms for Rotary Heads							
Standard Roller	Oil Impregnated Sintered Iron	1.38"	2EF62	2EF67	2EF63	2UYP6	—
Standard Roller	Oil Impregnated Sintered Iron	1.50"	2EG86	2UYP5	5B059	2EG87	—
Standard Roller	Oil Impregnated Sintered Iron	2.00"	2EF94	2EG02	2EF95	2UYP7	—
Standard Roller	Oil Impregnated Sintered Iron	2.50"	2EG26	—	2EG27	2EG28	—
Standard Roller	Oil Impregnated Sintered Iron	3.00"	2EG38	—	2EG39	2EG40	—
Standard Roller	Nylon	1.38"	2UYP8	2UYR4	2UYR9	—	2UYT1
Standard Roller	Nylon	1.50"	2UYP9	2UYR5	5B058	—	2UYT2
Standard Roller	Nylon	2.50"	—	2UYR7	—	—	—
Standard Roller	Nylon	3.00"	—	2UYR8	—	—	—
Forked Roller	Oil Impregnated Sintered Iron	1.50"	2EG84	—	5B060	—	—
Bendable Roller	Oil Impregnated Sintered Iron	0.88" to 4.00"	5B063	2EG72	—	—	—
Adjustable Roller	Oil Impregnated Sintered Iron	0.88" to 4.00"	5B065	2EG64	—	—	—
Adjustable Roller	Nylon	0.88" to 4.00"	5B064	—	—	—	2EG67

Description	Contact Form	Mfr. Model	Item No.
Replacement Contact Bodies			
Standard Body	1NO/1NC	9007CO54	2EG11
Standard Body	2NO/2NC	9007CO62	2EG13
Compact Body	1NO/1NC	9007CO52	2EG10
Standard Body 2-Stage	2NO/2NC	9007CO66	2UYJ1
Standard Body Neutral Off	2NO/2NC	9007CO68	2UYJ2
Replacement Receptacles			
For Use With Standard Body, 1NO/1NC Units	1NO/1NC	9007CT54	2EG22
For Use With Standard Body, 2NO/2NC Units	2NO/2NC	9007CT62	2EG23
For Use With Compact Body, 1NO/1NC Units	1NO/1NC	9007CT52	2EG21

Description	Arm Length	Item No.
Replacement Rods		
Stainless Steel	10.00"	5B069
Steel Spring	12.00"	5B068
2" Looped Arm	5.50"	5B066
Delrin® Spring	12.00"	5B067
Delrin® Extension	3.50"	2EH12
Coil Spring Extension	3.50"	2EH13

Looking for more Dayton and Honeywell Heavy-Duty Switches? See Grainger.com® for even more options.

Dayton
Honeywell



Top Push Rod Plunger Adjustable
No. 11X452



No. 12V052

Type AW Limit Switches

- 600V max.
- 15A
- Enclosures: NEMA 1, 2, 4, 12, and 13
- Plunger types feature a micrometer adjustment

Precision switches are oiltight and dust-tight and can be used in extremely low ambient temps.: -65°F for lever types, 0°F for plunger types. Die-cast zinc housing. Lever arms sold separately; see page 264. UL Listed, CSA and CE Certified.

Actuator Style	Actuator Location	Travel	Movement	Contact Form Switches	Operating Force	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
Compact Limit Switch Body, Non-Plug In										
Rotary, No Lever	Side	Total Travel 90°	CW, CCW	1NC/1NO	2.75 in.-lb.	2.38"	3.47"	1.38"	9007AO16	**2FL89** †
Compact Limit Switch Body, Plug In										
Rotary, No Lever	Side	Total Travel 90°	CW, CCW	1NC/1NO	2.75 in.-lb.	2.28"	3.47"	1.38"	9007AO12	**2FL88** †
General Purpose Limit Switch										
Plunger, Roller	Top	0.25"	Horizontal	1NC/1NO	3.00 lb.	2.22"	3.68"	1.44"	9007AW32	**2EF45**
Heavy Duty Limit Switch										
Rotary, No Lever	Side	Total Travel 300°	CW, CCW	1NC/1NO	2.75 in.-lb.	3.00"	3.68"	1.44"	9007AW16	**2EF42** †
Rotary, No Lever	Side	Total Travel 300°	CW, CCW	1NC/1NO	2.75 in.-lb.	2.39"	3.68"	1.44"	9007AW12	**2EF40** †
Rotary, No Lever	Side	Total Travel 300°	CW, CCW	1NC/1NO	2.75 in.-lb.	3.00"	3.68"	1.44"	9007AW14	**2EF41** †
Rotary, No Lever	Side	Total Travel 300°	CW, CCW	2NC/2NO	2.75 in.-lb.	3.00"	3.68"	1.44"	9007AW18	**2EF43** †
Plunger, Roller	Top	0.25"	Horizontal	1NC/1NO	3.00 lb.	2.53"	3.68"	1.44"	9007AW36	**2EF46**
Plunger	Top	0.25"	Vertical	1NC/1NO	3.00 lb.	2.53"	3.68"	1.44"	9007AW46	**2EF49**

† Field convertible to CW operation.



No. 2EF40

Severe-Duty Oiltight Limit Switches

UL Listed, CSA and CE Certified.

Movement	Operating Force	Contact Form Switches	Mfr. Model	Item No.
Rotary, No Lever				
CW	12.00 in.-lb.	SPDT	9007TUB1	**5B056**
CCW	12.00 in.-lb.	SPDT	9007TUB5	**5B053**
CCW	12.00 in.-lb.	SPDT	9007FTUD5	**21HK24** *
CW, CCW	12.00 in.-lb.	SPDT	9007TUB4	**5B054**
CW, CCW	12.00 in.-lb.	SPDT	9007FTUB4	**2EG60** *
CW Maintained, CCW Maintained	8 in.-lb.	SPDT	9007TUB12	**5B055**

Actuator Type	Arm Length	Roller Position	Roller Dia.	Roller Width	Mfr. Model	Item No.
Standard Roller	1.50"	Outside Offset	0.75"	0.25"	9007B1	**5B090**
Standard Roller	2.50"	Outside Offset	0.75"	0.50"	9007B22	**5B089**
Standard Roller	2.50"	Front	1.63"	0.50"	9007B24	**2EF55**
Forked Roller, 90°	1.50"	Same Side	0.75"	0.25"	9007X1	**5B052**
Forked Roller, 120°	1.50"	Same Side	1.00"	0.25"	9007J2	**5B062**
Conveyor Edge Guide	8 7/16"	Vertical Mount	1.50"	3.75"	9007R21	**5B057**

**** Foundry duty.***



No. 5B056


No. 5B090

Series D4A Limit Switches

- ½"-14 NPT conduit entry, terminal screw connection
- Operating temp.: side rotary, -40° to 238°F; except No. 2CLR9; all top plungers and flexible rods, 21° to 238°F
- Enclosures: NEMA 3, 4, 4X, 6P, 12, and 13; IP67
- Load rating: SPDT double break, 10A max. at 125VAC; DPDT double break: 5A max. at 125VAC
- Mechanical life: SPDT double break, 50 million operations; DPDT double break, 30 million operations

Heavy-duty plug-in switches have a double seal on the head and complete gasket cover. Provide Class 1 protection against electrical shock.

Side rotary switches are user-selectable CW, CCW, or both. UL Listed and CSA Certified.

Description	STANDARD Item No.	HIGH SENSITIVITY Item No.	LOW TORQUE Item No.	MAINTAINED Item No.
Side Rotary				
SPDT	**2CLP9**	**2CLR1**	**2CLR2**	**2CLR3**
DPDT	**2CLR9**	—	—	—
DPDT, Sequential	**2CLT3**	—	—	—
DPDT, Center Neutral	**2CLT4**	—	—	—
Replacement Heads	**2CLU2**	**2CLU3**	**2CLU4**	**2CLU5**

Description	STANDARD Item No.	ROLLER Item No.	ADJUSTABLE Item No.
Top Plungers			
SPDT	**2CLR4**	**2CLR5**	**2CLR6**
DPDT	**2CLT1**	**2CLT2**	—
Replacement Heads	**2CLU6**	**2CLU7**	**2CLU8**

Description	PLASTIC ROD Item No.	COIL SPRING Item No.
Flexible Rods		
SPDT	**2CLR7**	**2CLR8**
Replacement Heads	**2CLU9**	**2CLV1**

Description	RECEPTACLE Item No.	SWITCH BOX Item No.
D4A Replacement Plug-In Units		
1 NO/1 NC	**2CLT5**	**2CLT7**
2 NO/2 NC	**2CLT6**	**2CLT8**
2 NO/2 NC, Sequential	—	**2CLT9**
2 NO/2 NC, Center Neutral	—	**2CLU1**
Optional Levers		
Front-Mount	—	**2CLV2**
Back-Mount	—	**2CLV3**
Adjustable	—	**2CLV4**


Side Rotary


Top Plunger, Standard


Top Plunger, Roller


Top Plunger, Adjustable


Flexible Rod, Coil Spring


No. 49A926


No. 49A927


No. 49A922


No. 49A932

EATON

E50 Series Limit Switches

- Rated NEMA 3, 3S, 4X, 6P, and IP67
- 10A
- Operating temp. range: 14° to 250°F
- ½"-14 NPT conduit entry

Switches feature modular, plug-in components that provide application flexibility, reduced inventory, and less downtime. Rugged construction withstands harsh cutting fluids and chemicals. Designed with terminal identification on the name-plate for a visual wiring checkout without guesswork. Heads and switch bodies can be replaced without rewiring. UL Listed and CSA Certified.

		STANDARD				SEALED			
		1NC/1NO		2NC/2NO		1NC/1NO		2NC/2NO	
Description	Actuator Location	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Plunger	Side	E50AH1	**49A921**	E50BS1	**49A982**	E50AS16P	**49A995**	E50BS16P	**49C001**
Plunger	Top	E50AT1	**49A928**	E50BT1	**49A986**	E50AT16P	**49C005**	E50BT16P	**49C009**
Plunger, Adjustable	Side	E50AS2	**49A926**	E50BS2	**49A983**	E50AS26P	**49A996**	E50BS26P	**49C002**
Plunger, Adjustable	Top	E50AT2	**49A929**	E50BT2	**49A987**	E50AT26P	**49C006**	E50BT26P	**49C010**
Plunger, Maintained	Side	E50AS1	**49A925**	E50BH1	**49A985**	E50AH16P	**49C004**	E50BH16P	**49C008**
Plunger, Roller	Side	E50AS3	**49A927**	E50BS3	**49A984**	E50AS36P	**49C003**	E50BS36P	**49C007**
Plunger, Roller	Top	E50AT3	**49A930**	E50BT3	**49A988**	E50AT36P	**49C011**	E50BT36P	**49C014**
Rotary Head, No Lever, 15° Travel	Side	E50AL1	**49A922**	E50BL1	**49A980**	E50AL16P	**49A993**	E50BL16P	**49A998**
Rotary Head, No Lever, 5° Travel	Side	E50AR1	**49A924**	E50BR1	**49A979**	E50AR16P	**49A992**	E50BR16P	**49A997**
Rotary Head, No Lever, Maintained	Side	E50AM1	**49A923**	E50BM1	**49A981**	E50AM16P	**49A994**	E50BM16P	**49A999**
Rotary Head, No Lever, Neutral Position, 15° Travel	Side	—	—	E50NN2	**49A967**	—	—	—	—
Rotary Head, No Lever, Neutral Position, 5° Travel	Side	—	—	E50NN1	**49A965**	—	—	—	—
Rotary Head, No Lever, Neutral Position, SS Shaft, 5° Travel	Side	—	—	E50NN1SPL	**49A966**	—	—	—	—
Wobble Stick Head	Top	E50AW1	**49A931**	E50BW1	**49A989**	E50AW16P	**49C012**	E50BW16P	**49C015**
Wobble Stick Head, Heavy Duty	Top	E50AW2	**49A932**	E50BW2	**49A990**	E50AW26P	**49C013**	E50BW26P	**49C016**

Arm Length	Arm Depth	Arm Material	Roller Dia.	Roller Width	Mfr. Model	Item No.
Limit Switch Lever Arm Clamp, Rod Actuator						
1.50"	0.19"	Metal or Nylon	—	—	E50KL35	**49A945**
—	0.12"	Metal or Nylon	—	—	E50KL36	**49A947**
—	0.25"	Metal or Nylon	—	—	E50KL41	**49A951**
Limit Switch Lever Arm, Standard Roller Actuator						
1.50"	0.12"	Metal	0.69"	0.25"	E50KL26	**49A943**
1.50"	0.12"	Metal	0.75"	0.32"	E50KL25	**49A942**
1.50"	0.12"	Nylatron	0.75"	0.32"	E50KL24	**49A941**
1.50"	0.20"	Nylatron	0.75"	0.32"	E50KL204	**49A938**
1.50"	0.32"	Nylatron	0.75"	0.32"	E50KL200	**49A934**
1.50"	0.32"	Nylatron	0.75"	1.00"	E50KL377	**49A949**
1.50"	0.50"	Metal	0.69"	0.25"	E50KL545	**49A960**
1.50"	0.50"	Metal	0.75"	0.32"	E50KL544	**49A959**
1.50"	0.50"	Nylatron	0.85"	0.85"	E50KL37	**49A948**
1.50"	0.64"	Metal	0.75"	0.32"	E50KL355	**49A946**
Limit Switch Lever Arm, Rod Actuator						
5.50"	0.12"	Metal	—	—	E50KL202	**49A937**
5.50"	0.19"	Nylon	—	—	E50KL399	**49A950**
8.75"	0.12"	Metal	—	—	E50KL581	**49A962**
8.75"	0.19"	Stainless Steel	—	—	E50KL220	**49A939**
11.60"	0.25"	Stainless Steel	—	—	E50KL421	**49A952**
12.00"	0.12"	Metal	—	—	E50KL226	**49A940**
12.12"	0.25"	Nylon	—	—	E50KL556	**49A961**
12.12"	0.50"	Nylon	—	—	E50KL533	**49A954**
Limit Switch Lever Arm, Flexible Loop Rod Actuator						
6.00"	0.15"	Nylatron	—	—	E50KL142	**49A933**
Limit Switch Lever Arm, Adjustable Roller Actuator						
0.50" to 3.25"	0.19"	Nylatron	0.75"	0.75"	E50KL31	**49A944**
0.50" to 3.25"	0.50"	Nylatron	0.75"	1.00"	E50KL543	**49A958**
0.50" to 3.25"	0.50"	Nylatron	4.00"	0.11"	E50KL598	**49A963**
1.00" to 3.75"	0.50"	Metal	0.69"	0.25"	E50KL539	**49A957**
1.00" to 3.75"	0.50"	Metal	0.75"	0.32"	E50KL538	**49A956**
1.00" to 3.75"	0.50"	Nylatron	0.75"	0.32"	E50KL201	**49A935**
1.00" to 3.75"	0.50"	Nylatron	0.75"	0.32"	E50KL201SPL	**49A936**
1.00" to 3.75"	0.50"	Nylatron	0.75"	1.00"	E50KL537	**49A955**
1.00" to 3.75"	0.75"	Nylatron	0.75"	0.50"	E50KL599	**49A964**
1.63" to 3.75"	0.50"	Nylatron	1.50"	0.29"	E50KL443	**49A953**


No. 49A871


No. 49A870


No. 49A867


No. 49A880


No. 49A878


No. 49A872


No. 49A873


No. 49A874

EATON

LS Series Limit Switches

- 1NO/1NC
- 4A
- Operating temp. range: -13° to 158°F

Modular switches are suitable for use in safety applications designed to protect persons or processes. Feature plug-in system, positive opening NC contacts, and operating heads that can be rotated 90° to suit a specific direction. LSM Series are designed with metal bodies, and LS Series feature more economical, plastic bodies. UL Listed. CSA and CE Certified.

Description	Mfr. Model	Item No.
LSM Series		
Horizontal Roller Lever, Angled	LSM-11S-LA	**49A883**
Horizontal Roller Lever, Long	LSM-11S-L	**49A882**
Plunger, Roller	LSM-11S-P	**49A881**
Rod Lever, Metal	LSM-11S-RRM	**49A887**
Rod Lever, Plastic	LSM-11S-RR	**49A886**
Rotary Lever	LSM-11S-RL	**49A884**
Rotary Lever, Adjustable	LSM-11S-RLA	**49A885**
Wobble Stick	LSM-11S-S	**49A888**
LS Series		
Horizontal Roller Lever, Angled	LS-S11S-LA	**49A871**
Horizontal Roller Lever, Large	LS-S11S-LB	**49A870**
Horizontal Roller Lever, Long	LS-S11S-L	**49A868**
Horizontal Roller Lever, Short	LS-S11S-LS	**49A869**
Plunger, Roller	LS-S11S-P	**49A867**
Rod Lever	LS-S11S-OR	**49A880**
Rod Lever, Adjustable, Metal	LS-S11S-RRM	**49A878**
Rod Lever, Adjustable, Plastic	LS-S11S-RR	**49A877**
Rotary Lever	LS-S11S-RL	**49A872**
Rotary Lever, Adjustable, 18.0mm dia. Roller	LS-S11S-RLA	**49A873**
Rotary Lever, Adjustable, 30.0mm dia. Roller	LS-S11S-RLA30	**49A874**
Rotary Lever, Adjustable, 40.0mm dia. Roller	LS-S11S-RLA40	**49A875**
Rotary Lever, Adjustable, 40.0mm dia. Roller, Rubber	LS-S11S-RLA40R	**49A876**
Wobble Stick	LS-S11S-S	**49A879**

Honeywell

MICRO SWITCH™ Global Limit Switches

- Enclosures: NEMA 1, 4, 12, and 13
- Operating temp. range: -13° to 185°F
- ½"-14 NPT conduit entry



No. 12U934



No. 12U936



No. 12U916

Actuator Style	Actuator Location	Movement	Contact Form Switches	AC Contact Rating	Mfr. Model	Item No.
GLA/GLS Series						
Plunger	Top	Linear	1NC/1NO	10A @ 600V	GLAA01B	**12U227**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 600V	GLAA01C	**12U228**
Plunger, Roller	Top	Linear	2NC/2NO	10A @ 600V	GLAA20C	**12U929**
Plunger, Roller Lever	Top	Linear	1NC/1NO	10A @ 600V	GLAA01D	**12U229**
Plunger, Roller Lever	Top	Linear	2NC/2NO	10A @ 600V	GLAA20D	**12U930**
Rotary, Adjustable Rod	Side	CW, CCW	1NC/1NO	10A @ 600V	GLAA01A4J	**12U920**
Rotary, Adjustable Rod	Side	CW, CCW	2NC/2NO	10A @ 600V	GLAA20A4J	**12U927**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLAA01A1A	**12U223**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLAA01A1B	**12U224**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLAA01A2A	**12U225**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLAA01A2B	**12U226**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 600V	GLAA20A2B	**12U231**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 600V	GLAA20A1A	**12U924**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 600V	GLAA20A1B	**12U925**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 600V	GLAA20A2A	**12U926**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 600V	GLAA01E7D	**12U921**
Wobble Stick, Cat Whisker	Top	Wobble	1NC/1NO	10A @ 600V	GLAA01K8B	**12U922**
Wobble Stick, Cat Whisker	Top	Wobble	1NC/1NO	10A @ 600V	GLAA01K8C	**12U923**
Wobble Stick, Cat Whisker	Top	Wobble	2NC/2NO	10A @ 600V	GLAA20K8C	**12U931**
GLC/GLS Series						
Plunger	Top	Linear	1NC/1NO	10A @ 300V	GLCA01B	**12U235**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 300V	GLCA01C	**12U236**
Rotary, Adjustable Rod	Side	CW, CCW	1NC/1NO	10A @ 300V	GLCA01A4J	**12U933**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLCA01A1B	**12U232**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLCA01A2A	**12U233**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLCA01A2B	**12U234**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLCA01A1A	**12U932**
Rotary, Roller Lever	Top	Linear	1NC/1NO	10A @ 300V	GLCA01D	**12U934**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLCA01E7B	**12U237**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLCA01K8A	**12U238**

Actuator Style	Actuator Location	Movement	Contact Form Switches	AC Contact Rating	Mfr. Model	Item No.
GLD/GLS Series						
Plunger	Top	Linear	1NC/1NO	10A @ 600V	GLDA01B	**12U937**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 600V	GLDA01C	**12U938**
Rotary, Adjustable Rod	Side	CW, CCW	1NC/1NO	10A @ 600V	GLDA01A4J	**12U241**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLDA01A1A	**12U239**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLDA01A1B	**12U240**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLDA01A2A	**12U935**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 600V	GLDA01A2B	**12U936**
Rotary, Roller Lever	Top	Linear	1NC/1NO	10A @ 600V	GLDA01D	**12U939**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 600V	GLDA01E7B	**12U940**
GLE/GLS Series						
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 300V	GLEA01C	**12U946**
Plunger, Roller	Top	Linear	2NC/2NO	10A @ 300V	GLEA24C	**12U246**
Plunger, Roller Lever	Top	Linear	2NC/2NO	10A @ 300V	GLEA24D	**12U950**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLEA01A1A	**12U941**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLEA01A2A	**12U942**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLEA01A2B	**12U943**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLEA01A5A	**12U945**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 300V	GLEA24A1B	**12U245**
Rotary, Roller Lever	Side	CW, CCW	2NC/2NO	10A @ 300V	GLEA24A2A	**12U948**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLEA01E7B	**12U947**
GLL/GLS Series						
Plunger	Top	Linear	1NC/1NO	10A @ 300V	GLLA01B	**12U918**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 300V	GLLA01C	**12U919**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLLA01A1B	**12U916**
Rotary, Roller Lever	Side	CW, CCW	1NC/1NO	10A @ 300V	GLLA01A2B	**12U917**

Description	Movement	Contact Form Switches	AC Contact Rating	Mfr. Model	Item No.
Paddle	Manual	1NC/1NO	15A @ 480V	EX-AR50	**12U991**
Plunger	Linear	1NC/1NO	15A @ 480V	EX-Q	**12V002**
Plunger, Boot Sealed	Linear	1NC/1NO	10A @ 480V	EX-N15	**12V001**
Plunger, Class 1 Group B	Linear	1NC/1NO	15A @ 480V	EX-Q800	**12V005**
Plunger, High Temp.	Linear	1NC/1NO	5A @ 480V	EX-Q400	**12V003**
Plunger w/ 3 ft. Leads	Linear	2NC/2NO	10A @ 250V	EXD-Q-3	**12U996**
Rod Lever w/o Mounting Bracket	CW	1NC/1NO	15A @ 600V	EX-AR1613	**12U985**
Roller Lever	CW	1NC/1NO	15A @ 600V	EX-AR	**12U982**
Roller Lever w/o Mounting Bracket	CW, CCW	1NC/1NO	15A @ 600V	EX-AR16	**12U984**
Roller Lever w/o Mounting Bracket	CW	1NC/1NO	15A @ 600V	EX-AR141	**12U983**
Rotary Head, w/o Lever	CW	1NC/1NO	15A @ 600V	EX-AR20	**12U987**
Rotary Lever Arm	CW	1NC/1NO	20A @ 480V	EXA-AR	**12U977**
Rotary Lever Arm	CCW	1NC/1NO	15A @ 600V	EX-AR30	**12U989**
Rotary Lever Arm, 2 Conduit Openings	CW	1NC/1NO	15A @ 480V	1EX1	**12U974**
Rotary Lever Arm, 2 Conduit Openings	CW	2NC/2NO	10A @ 250V	4EX1-3	**12U976**
Rotary Lever Arm, Class 1 Group B	CW	1NC/1NO	15A @ 480V	EX-AR800	**12U992**
Rotary Lever Arm, High Temp.	CW	1NC/1NO	15A @ 600V	EX-AR400	**12U990**
Rotary Lever Arm, Maintained Contact	CW	1NC/1NO	10A @ 250V	EX-XR3	**12V006**
Rotary Lever Arm Hermetically Sealed w/10.5 ft. Leads	CW	1NC/1NO	1A @ 120V	EXH-AR3	**12U997**
Rotary Lever Arm w/3 ft. Leads	CW	2NC/2NO	10A @ 250V	EXD-AR-3	**12U994**
Rotary Lever Arm w/3 ft. Leads	CCW	2NC/2NO	10A @ 250V	EXD-AR30-3	**12U995**
Rotary Lever Arm w/Nylon Roller	CW	1NC/1NO	15A @ 480V	EX-AR182	**12U986**
Rotary Lever Arm w/o Mounting Bracket	CW	1NC/1NO	20A @ 480V	EXA-AR62	**12U979**



No. 12U991



No. 12U985



No. 12U977

Honeywell

Hazardous Location Limit Switches

- Aluminum construction
- NEMA rated 1, 7
- 2.56" H x 2.78" W x 2.02" D
- ½" NPT conduit entry
- Operating temp.: -40° to 160°F (except Nos. 12U990 and 12V003 are rated to 400°F)

Designed with flame paths in the housing that cool exploding gases below the kindling temperature before they reach the explosive gases surrounding the housing. Applications include control valves and actuators, petrochemical plants, conveyors, and material handling. ATEX, IEC Ex, Div. 1, & 2, Class I, Groups C, & D; Div. 1 & 2, Class II, Groups, E, F, & G; II 2 G, EEx d IIB + H2 T6. UL, CSA, ATEX, IEC Ex.

Waterproof Limit Switches

CPI Switches & Sensors

- Temp. range: -40° to 185°F

Submersible with proper wire sealing. For the harshest environments.

E-SERIES SWITCHES

Large overtravel capability and adjustable mounting brackets. Feature 1-way vertical and horizontal movement. Stainless steel bracket included. No. 5DKF7 has an ultralong actuating lever for extreme overtravel flexibility.

J-SERIES SWITCHES

Water-resistant flat-lever Nos. 5DKF8 and 5DKF9 models have an ultralow profile with high overtravel actuators for applications with limited space. 1-way vertical and horizontal movement. Each includes stainless steel bracket. Plunger-style Nos. 5DKG0 and 5DKG1 feature omnidirectional movement. Patented ball design eliminates actuator jamming for precise control. Plunger-style No. 5DKG5 has a rugged, long-plunger actuator and vertical movement. Includes a Deutsche connector.



No. 5DKF4



No. 5DKF6



No. 5DKF8



No. 5DKG0



No. 5DKG5

Actuator Style	Contact Form Switches	Actuator Length	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
E Series							
Lever, Leaf	SPDT	0.81"	1.75"	1.53"	0.97"	E1092-555	**5DKF4**
Roller, Lever	SPDT	0.81"	1.75"	1.53"	0.97"	E1117-553	**5DKF5**
Roller, Lever	SPDT	0.56"	1.75"	1.53"	0.97"	E1134-505	**5DKF6**
Lever, Leaf	SPDT	1.04"	1.75"	1.53"	0.97"	E1264-503	**5DKF7**
J Series							
Lever, Leaf	1NC	0.65"	2.47"	0.27"	0.87"	J3006-563	**5DKF8**
Lever, Leaf	1NO	0.65"	2.47"	0.27"	0.87"	J3010-548	**5DKF9**
Plunger, Roller	1NO	0.12"	0.87"	0.89"	0.87"	J4001-522	**5DKG0**
Plunger, Roller	1NC	0.12"	0.87"	0.89"	0.87"	J4002-518	**5DKG1**
Plunger, Roller	1NO	0.56"	0.87"	2.85"	0.87"	J4401-517	**5DKG5**


No. 12T957


No. 12T958


No. 12T959


No. 12T960


No. 12T961


No. 12T962

Compact Limit Switches

- Enclosures: NEMA 1 (IP65)
- 10A, 300VAC/DC
- Operating temp.: -14° to 158°F
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

Actuator Style	Body Height	Body Width	Body Depth	Item No.
Plunger	2.41"	1.12"	1.01"	**12T957**
Plunger, Roller	2.41"	1.12"	1.01"	**12T958**
Rotary, Roller Lever	2.41"	1.12"	1.01"	**12T959**
Rotary, Adjustable Rod	2.41"	1.12"	1.01"	**12T960**
Rotary, Roller Lever	2.41"	1.12"	1.01"	**12T961** *
Wobble Stick, Coil Spring	2.41"	1.12"	1.01"	**12T962**

Adjustable lever arm.


No. 5WJH0


No. 5WJJ1

Telemecanique Sensors

XCMD Series Miniature Limit Switches

- 1NO/1NC
- Enclosures: NEMA 1, 2, 4, 12, and 13 (IP67, IP68)
- 6A, 240VAC
- Operating temp. range: -25° to 70°F

Modular limit switches have integral snap-action contacts. Bodies are Zamak® zinc alloy. Class I protection against electric shock. 5 gn vibration resistance, and 25 gn shock resistance. For short-circuit protection, use 6A cartridge fuses, type gG. UL Listed and CSA Certified.

Description	Mfr. Model	Item No.
XCMD Replacement Parts		
Miniature Limit Switch Body, 1NO/1NC	ZCMD21	**21HK59**
Miniature Limit Switch Body, M12 Connection, 1NO/1NC	ZCMD21M12	**21HK60**
Miniature Limit Switch Body, 1NO/1NC	ZCMD25	**21HK61**
Limit Switch Head Steel Roller Plunger, Roller Plunger	ZCE02	**4AJ59**
Limit Switch Lever Arm, Wobble Stick	ZCE06	**21HK36**
Limit Switch Head Metal End Plunger, Plunger	ZCE10	**4AJ58**
Limit Switch Head, Rotary	ZCE01	**4AJ57**
Limit Switch Head, Roller Lever Plunger	ZCE24	**21HK62**
Limit Switch Head, Plunger	ZCEF0	**21HK63**
Limit Switch Head, Roller Plunger	ZCEF2	**21HK64**
Limit Switch Lever Arm, Standard Roller	ZCY15	**21HK65**
Limit Switch Lever Arm, Standard Roller	ZCY17	**2RVU7**
Limit Switch Lever Arm, Adjustable Roller	ZCY44	**2RVU8**
Limit Switch Lever Arm, Rod	ZCY91	**2RVU9**
Limit Switch Lever Arm, Plunger	ZCE14	**2RVX2**
Limit Switch Base w/1m Cable	ZCMC21L1	**21HK66**
Limit Switch Base w/2m Cable	ZCMC21L2	**21HK67**
Limit Switch Base w/3m Cable	ZCMC21L3	**21HK68**
Limit Switch Base w/5m Cable	ZCMC21L5	**21HK69**
Booted Steel Plunger Head	ZCE11	**2RVX1**
Wobble Stick Head	ZCE08	**2RVX3**

Actuator Style	Threaded Stem	Roller Material	Mfr. Model	1m Cable, 5 Wire Item No.	2m Cable, 5 Wire Item No.	3m Cable, 5 Wire Item No.	5m Cable, 5 Wire Item No.	M12 4-Pin Connector Item No.
Plunger	No	—	XCMD2110	**5WJH5**	**2RVU6**	**5WJH6**	**21HK45**	**5WJH7**
Plunger	Yes	—	XCMD21F0	**5WJJ2**	**21HK55**	**21HK56**	**21HK57**	**21HK58**
Plunger, Roller	No	Steel	XCMD2102	**5WJH0**	**21HK43**	—	**5WJH2**	**5WJH3**
Plunger, Roller	Yes	Steel	XCMD21F2	**5WJJ3**	**21HK51**	**21HK52**	**21HK53**	**21HK54**
Plunger, Roller Lever	No	Thermoplastic	XCMD2124	**5WJJ0**	—	—	**21HK50**	**5WJJ1**
Rotary, No Lever	No	—	XCMD2101	**2RVU5**	—	—	—	—
Rotary, Roller Lever	No	Thermoplastic	XCMD2115	**5WJH8**	**21HK46**	**21HK47**	**21HK48**	**21HK49**
Rotary, Roller Lever	No	Thermoplastic	XCMD2515	**5WJJ4** *	—	—	—	—
Rotary, Roller Lever	No	Steel	XCMD2116	**5WJH9**	—	—	—	—
Wobble Stick, Cat Whisker	No	—	XCMD2106	**21HK44**	—	—	—	**5WJH4**

Slow-break contact.


XCKP Series No. 5WJG1


XCKP Series No. 5WJG6


XCKD Series No. 5WJD8


XCKD Series No. 5WJD1

Telemecanique Sensors

XCK Series Limit Switches

- 1NO/1NC
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F

Lever-operated CW and CCW in 5° and 90° increments. Slim body with metal head and plastic enclosure.

XCKP SERIES

- Enclosures: NEMA 1, 4, and 12 (IP66, IP67)
- Mechanical life: 10 million operations

Complete switches are double insulated with no grounding required.

XCKD SERIES

- Enclosures: NEMA 1, 2, 4, 6, 12, and 13 (IP66, IP67)

Compact metal enclosure protects switches. Head, body, lever, and connector modularity.

Actuator Style	Movement	Body Height	Body Width	Body Depth	Mfr. Model	½" NPT Item No.	M12 CONNECTOR Item No.	G11 METRIC Item No.
XCKP Series								
Plunger, Roller	Horizontal	2.56"	1.22"	1.18"	XCKP2102	**1MDY9**	**5WJF9**	**5WJF8**
Wobble Stick, Cat Whisker	Any Direction	2.56"	1.22"	1.18"	XCKP2106	**1MDZ1**	**5WJG0**	**21HK32**
Plunger	Vertical	2.56"	1.22"	1.18"	XCKP2110	**1MDZ2**	**5WJG1**	**21HK33**
Rotary, Roller Lever	CW, CCW	2.56"	1.22"	1.18"	XCKP2118	**3DZR8**	**5WJG3**	**5WJG2**
Plunger, Roller Lever	Horizontal, One Way	2.56"	1.22"	1.18"	XCKP2121	**1MDZ3**	**5WJG4**	**21HK34**
Plunger, Roller Lever	Vertical, One Way	2.56"	1.22"	1.18"	XCKP2127	**1MDZ4**	—	—
Rotary, Adjustable Roller Lever	CW, CCW	2.56"	1.22"	1.18"	XCKP2145	**1MDZ5**	**5WJG6**	**5WJG5**
XCKD Series								
Plunger, Roller	Horizontal	2.56"	1.22"	1.18"	XCKD2102	**5WJD2**	**5WJD1**	—
Wobble Stick, Cat Whisker	Any Direction	2.56"	1.22"	1.18"	XCKD2106	**5WJD4**	**5WJD3**	—
Plunger	Vertical	2.56"	1.22"	1.18"	XCKD2110	**5WJD6**	**5WJD5**	—
Rotary, Roller Lever	CW, CCW	2.56"	1.22"	1.18"	XCKD2118	**5WJD8**	**5WJD7**	—
Plunger, Roller Lever	Horizontal, One Way	2.56"	1.22"	1.18"	XCKD2121	**5WJE0**	**5WJD9**	—
Plunger, Roller Lever	Vertical, One Way	2.56"	1.22"	1.18"	XCKD2127	—	**21HK41**	—
Rotary, Adjustable Roller Lever	CW, CCW	2.56"	1.22"	1.18"	XCKD2145	**5WJE2**	**5WJE1**	—

Description	Mfr. Model	Item No.
XCKP/XCKD Replacement Parts		
Compact Limit Switch Body, 1NO/1NC	ZCP21	**4AE97**
Compact Limit Switch Body, M12 Connection, 1NO/1NC	ZCP21M12	**21HK35**
Limit Switch Head, Roller Lever Plunger	ZCE27	**21HK37**
Plastic Cable Entry, ½" NPT	ZCPEN12	**4AJ45**
Plastic Cable Entry, Pg 11 Connection	ZCPEG11	**21HK39**
Plastic Cable Entry, Pg 13.5 Connection	ZCPEG13	**4AJ39**
Compact Limit Switch Body, 1NO/1NC	ZCD21	**4AJ16**
Compact Limit Switch Body, M12 Connection, 1NO/1NC	ZCD21M12	**21HK42**
Limit Switch Head Steel Roller Plunger, Roller Plunger	ZCE02	**4AJ59**
Limit Switch Lever Arm, Wobble Stick	ZCE06	**21HK36**
Limit Switch Head Metal End Plunger, Plunger	ZCE10	**4AJ58**
Limit Switch Head, Rotary	ZCE01	**4AJ57**
Limit Switch Lever Arm, Roller Lever Plunger	ZCE21	**4AJ53**
Limit Switch Lever Arm, Standard Roller	ZCY18	**4AJ54**
Limit Switch Lever Arm, Adjustable Roller	ZCY45	**21HK38**
Metal Conduit Entry, ½" NPT Conduit	ZCDEN12	**4AJ52**


No. 4B805


No. 4B801

Telemecanique Sensors

XCKL Series Compact Limit Switches

- 1NO/1NC, snap action
- Enclosures: NEMA 1, 2, 3, 4, and 12 (IP66)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F
- ½" NPT conduit thread

General-duty switches offer greater versatility for applications such as machine tools, material handling, etc. Feature positive opening contact and Finger Guard™ protection and captive screws and gaskets.

Actuator Style	Body Height	Body Width	Body Depth	Mfr. Model	Item No.
Plunger, Roller	2.83"	2.04"	1.18"	XCKL102H7	4B805
Wobble Stick	2.83"	2.04"	1.18"	XCKL106H7	4B804
Plunger	2.83"	2.04"	1.18"	XCKL110H7	4B803
Rotary, Roller Lever	2.83"	2.04"	1.18"	XCKL115H7	4B802
Plunger, Roller	2.83"	2.04"	1.18"	XCKL121H7	4B801
Rotary, Roller Lever	2.83"	2.04"	1.18"	XCKL10041H7	2EH73
Rotary, Roller Lever	2.83"	2.04"	1.18"	XCKL141H7	5WJF3
XCKL Replacement Parts					
Body, 1NO/1NC				ZCKL1H7	2EJ31
Roller Plunger - Head				ZCKD02	2EH96
Cat Whisker - Head				ZCKD06	2EH97
Rod Plunger - Head				ZCKD10	2EH99
Offset Lever Arm - Head				ZCKD15	2EJ02
One-Way Lever Arm - Head				ZCKD21	2EJ05
Rotary - Head, CW and CCW				ZCKD41	21HK25
Adjustable Lever Arm - Head				ZCKG00	2EJ19
Steel Roller Lever - Head				ZCKD16	2EJ03
Wobble Spring, Steel - Head				ZCKD08	2EH98
Limit Switch Lever Arm, Adjustable Roller, Delrin				ZCKY41	2EJ34
Limit Switch Lever Arm, Rod, Plastic				ZCKY59	2EJ38
2-Pole NO+NC Snap Action				XE2SP2151	4AJ31


No. 1MDZ6


No. 1MDZ8

Telemecanique Sensors

XCKT Series Limit Switches

- 1NO/1NC
- Enclosures: NEMA 1, 2, 4, 6, 12, and 13 (IP66 and IP67)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F

Compact plastic design features 2 side cable entries and modular head.

Actuator Style	Body Height	Body Width	Body Width	Mfr. Model	Item No.
Plunger, Roller	2.00"	2.28"	2.28"	XCKT2102N12	1MDZ6
Wobble Stick	2.00"	2.28"	2.28"	XCKT2106N12	5WJG7
Plunger	2.00"	2.28"	2.28"	XCKT2110N12	1MDZ7
Rotary, Roller Lever	2.00"	2.28"	2.28"	XCKT2118N12	1MDZ8
Rotary, Roller Lever	2.00"	2.28"	2.28"	XCKT2145N12	5WJG9
XCKT Replacement Parts					
Compact Limit Switch Body, ½" NPT Connection, 2 Pole NO/NC, Snap Action, ½" NPT Connection				ZCT21N12	21HK40
Limit Switch Head Steel Roller Plunger, Roller Plunger				ZCE02	4AJ59
Limit Switch Lever Arm, Wobble Stick				ZCE06	21HK36
Limit Switch Head Metal End Plunger, Plunger				ZCE10	4AJ58
Limit Switch Head, Rotary				ZCE01	4AJ57
Limit Switch Lever Arm, Roller Lever Plunger				ZCE21	4AJ53
Limit Switch Lever Arm, Standard Roller				ZCY18	4AJ54
Limit Switch Lever Arm, Adjustable Roller				ZCY45	21HK38

Telemecanique Sensors

XCKM Series Limit Switches

- 1NO/1NC, snap action
- Enclosures: NEMA 1, 2, 4, 12, and 13 (IP66)
- 10A, 240VAC
- Operating temp. range: -13° to 158°F
- ½" NPT cable entry port
- Max. wire size: 2 x #16 AWG per terminal


No. 5WJF4


No. 5WJF7

Feature 4-position indexing rotary head (field convertible) and captive saddle clamp terminals in convenient ready-to-wire position. 25 gn (10 to 500 Hz) vibration resistance, 50 gn shock resistance, and max. 25 m contact resistance. For short-circuit protection, use 10A fuses, type SC. UL Listed, CSA and CE Certified.

Actuator Style	Body Height	Body Width	Body Depth	Mfr. Model	Item No.
Plunger, Roller	2.48"	2.52"	1.18"	XCKM102H7	5WJF4
Wobble Stick	2.48"	2.52"	1.18"	XCKM106H7	5WJF5
Plunger	2.48"	2.52"	1.18"	XCKM110H7	5WJF6
Rotary, Roller Lever	2.48"	2.52"	1.18"	XCKM115H7	5WJF7
XCKM Replacement Parts					
Body, 1NO/1NC				ZCKM1	2FM18
Roller Plunger - Head				ZCKD02	2EH96
Cat Whisker - Head				ZCKD06	2EH97
Rod Plunger - Head				ZCKD10	2EH99
Offset Lever Arm - Head				ZCKD15	2EJ02

Telemecanique Sensors

XCKJ Series Limit Switches

- Enclosures: NEMA 1, 2, 3, 4, and 12 (IP66)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F
- Mechanical life: lever types, 30 million operations; neutral positions, 5 million operations


No. 5WJE3


No. 5WJE7

Complete switches have die-cast zinc enclosures. Field convertible: CW, CCW, or both. Delrin® roller is adjustable in 5° or 90° increments for Nos. 4B811 and 4B810.

Actuator Style	Actuator Length	Contact Form Switches	Body Width	Body Depth	Mfr. Model	SCREW TERMINALS Body Height	SCREW TERMINALS Item No.	M12 5-PIN CONNECTOR Body Height	M12 5-PIN CONNECTOR Item No.
Rotary, Roller Lever	1.61"	1NC/1NO	1.57"	2.36"	XCKJ10511	4.01"	5WJE3	4.01"	21HK27
Rotary, Adjustable Roller Lever	1.57" to 3.35"	1NC/1NO	1.57"	2.36"	XCKJ10541	4.01"	4B811	4.01"	21HK28
Rotary, Adjustable Roller Lever	1.57" to 3.35"	2NC/2NO	1.57"	2.36"	XCKJ20541	4.01"	4B810	—	—
Rotary, Adjustable Rod	8.35"	1NC/1NO	1.57"	2.36"	XCKJ10559	4.01"	21HK29	4.01"	5WJE5
Plunger	0.28"	1NC/1NO	1.57"	2.36"	XCKJ161	4.01"	5WJE6	4.01"	21HK30
Plunger, Roller	0.79"	1NC/1NO	1.57"	2.36"	XCKJ167	4.01"	5WJE7	—	—
Rotary, No Lever	—	2NC/2NO	1.57"	2.36"	ZCKJ404	4.01"	4B777	—	—

Description	Mfr. Model	Item No.
XCKJ Replacement Parts		
Limit Switch Body, 1NO/1NC	ZCKJ1H7	2EJ20
Limit Switch Body,M12 Connection, 1NO/1NC	ZCKJ1D	21HK31
Limit Switch Body, 2NO/2NC	ZCKJ2H7	2EJ22
Limit Switch Head, Rotary	ZCKE05	2EJ07
Limit Switch Head, Plunger	ZCKE61	2EJ14
Limit Switch Head, Roller Plunger	ZCKE67	2FM17
Limit Switch Lever Arm, Standard Roller, Delrin	ZCKY11	4B773
Limit Switch Lever Arm, Standard Roller, Steel	ZCKY13	4B772
Limit Switch Lever Arm, Adjustable Roller, Delrin	ZCKY41	2EJ34
Limit Switch Lever Arm, Adjustable Roller, Steel	ZCKY43	2EJ35
Limit Switch Lever Arm, Rod, Plastic	ZCKY59	2EJ38
Limit Switch Lever Arm, Rod, Steel	ZCKY91	2EJ42
2-Pole NO+NC Snap Action	XE2SP2151	4AJ31


No. 13F515


No. 13F516

Miniature Precision Limit Switch

Dayton

- NEMA 1 and IP67
- Operating temp.: -14° to 158°F
- Strain relief series: 5A, 250VAC
- Connector series: 1A, 250VAC
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

Actuator Style	Body Height	Body Depth	Screw Terminals Body Width	Screw Terminals Item No.
Plunger	1.27"	0.71"	2.29"	**13F515**
Plunger, Roller	1.27"	0.71"	2.29"	**13F513**
Plunger, Roller Lever	1.27"	0.71"	2.29"	**13F516**


No. 12T906


No. 12T908


No. 12T909


No. 12T917


No. 12T914


No. 12T930

Enclosed Limit Switches

Dayton

- ½" NPT conduit entry
- Operating temp.: -14° to 176°F
- 15A, 480VAC/DC max.
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

Actuator Style	Operating Force	Body Height	Body Width	STANDARD Body Depth	STANDARD Item No.	WITH FLANGE BASE Body Depth	WITH FLANGE BASE Item No.
NEMA 1 with Inline Side Mounting Holes							
Plunger	9 oz. to 12 oz.	1.76"	3.39"	1.01"	**12T906**	—	—
Plunger, Cross Roller	9 oz. to 12 oz.	1.76"	3.39"	1.01"	**12T908**	—	—
Plunger, Roller Lever	20 oz.	1.76"	3.39"	1.01"	**12T909**	1.01"	**12T928**
NEMA 3, 4, 13 with Diagonal Side Mounting Holes							
Plunger, Cross Roller	18 oz.	1.76"	3.39"	1.01"	**12T917**	—	—
Plunger, Roller	18 oz.	1.76"	3.39"	1.01"	**12T925**	—	—
Plunger, Roller Lever	22.66 in.-oz.	1.76"	3.39"	1.01"	**12T923**	—	—
Wobble Stick	5 oz.	1.76"	3.39"	1.01"	**12T924**	—	—
NEMA 3, 4, 13 with Inline Side Mounting Holes							
Plunger	28 oz.	1.76"	3.39"	1.01"	**12T910**	—	—
Plunger, Cross Roller	18 oz.	1.76"	3.39"	—	—	1.01"	**12T919**
Plunger, Roller	18 oz.	1.76"	3.39"	1.01"	**12T912**	—	—
Plunger, Roller Lever	22.66 in.-oz.	1.76"	3.39"	—	—	1.01"	**12T930**
Wobble Stick	5 oz.	1.76"	3.39"	1.01"	**12T914**	1.01"	**12T929**


Plunger


Roller Plunger


Roller Arm Lever


Cross Roller Plunger


Coil Spring

Series ZE, ZV2, and ZV Limit Switches

OMRON®

- Standard unit enclosures: NEMA 1; IP60
- Sealed (booted) unit enclosures: NEMA 1, 2, 3, 4, and 5; IP65

Large, easy-to-wire switch cavity. Die-cast housing. Sealed units feature a rubber boot and clamping band on head to seal out dirt. UL Listed and CSA Certified.

ZE SERIES

- ½"-14 NPSM conduit opening and side mounting bolts
- 15A, 480VAC/250VDC
- Operating temp.: 39.6° to 201.6°F

ZV2 AND ZV SERIES

- Screw terminals on internal switch face forward when cover is opened
- 15/15/10A, 125/250/480VAC
- Operating temp.: 39.6° to 201.6°F

ZV2 units are gang-mountable.

Actuator Style	Boot Sealed Actuator	Item No.
ZE Series, Side Mounted Switches		
Plunger	No	**3XG56**
Plunger, Roller	No	**3XG58**
Plunger, Cross Roller	No	**3XG57**
Plunger, Roller Lever	No	**3XG59**
Plunger, Lever	No	**3XG60**
Plunger	Yes	**2W938**
Plunger, Roller	Yes	**2W939**
Plunger, Cross Roller	Yes	**3XG55**
Plunger, Roller Lever	Yes	**3A095**
Wobble Stick, Coil Spring	No	**3A096**
ZV2 Series, Diagonal Side Mounted Switches		
Plunger	Yes	**2CMA8**
Plunger, Roller	Yes	**2CMA9**
Plunger, Roller Lever	Yes	**2CMC1**
ZV Series, Flange Base-Mounted Switches		
Plunger	Yes	**2CMC2**
Plunger, Roller	Yes	**2CMC3**
Plunger, Roller Lever	Yes	**2CMC4**


No. 12U165


No. 12U176


No. 12U175


No. 12U167

MICRO SWITCH™ Enclosed Basic Switches

Honeywell

- IP40, NEMA 1, except Seal Boot models are IP66, NEMA 1, 3, 4, and 12
- ½" NPT conduit entry
- Operating temp.: -25° to 160°F
- SPDT rated up to 600VAC and up to 15A
- DPDT rated up to 250VAC and up to 10A

Silver contacts with zinc, die-cast housing. Side mount models include mounting hardware. Models without Seal Boot are UL Listed and CSA Certified.


No. 12U166


No. 12U162

Actuator Style	SIDE MOUNT Mfr. Model	SIDE MOUNT Item No.	SIDE MOUNT W/SEAL BOOT Mfr. Model	SIDE MOUNT W/SEAL BOOT Item No.	FLANGE MOUNT Mfr. Model	FLANGE MOUNT Item No.	FLANGE MOUNT W/SEAL BOOT Mfr. Model	FLANGE MOUNT W/SEAL BOOT Item No.
1NC/1NO								
Plunger	BZE6-2RQ	**12U165**	BZE6-2RN7	**12U173**	BZV6-2RQ	**12U180**	BZV6-2RN	**12U168**
Plunger	—	—	BZE6-2RN	**12U161** *	—	—	—	—
Plunger, Cross Roller	BZE6-2RQ81	**12U176**	BZE6-2RN81	**12U174**	BZV6-2RQ81	**12U184**	BZV6-2RN81	**12U179**
Plunger, Lever	BZE6-2RQ62	**12U175**	BZE6-2RN62	**12U163**	BZV6-2RQ62	**12U182**	BZV6-2RN62	**12U177**
Plunger, Roller	BZE6-2RQ8	**12U167**	BZE6-2RN80	**12U164**	BZV6-2RQ8	**12U183**	BZV6-2RN80	**12U178**
Plunger, Roller Lever	BZE6-2RQ2	**12U166**	BZE6-2RN2	**12U172**	BZV6-2RQ2	**12U181**	BZV6-2RN2	**12U170**
Wobble Stick, Coil Spring	—	—	BZE6-2RN18	**12U162**	—	—	BZV6-2RN18	**12U169**
2NC/2NO								
Plunger	—	—	DTE6-2RN	**12U185**	—	—	DTV6-2RN	**12U186**
Plunger, Roller Lever	—	—	DTE6-2RN2	**12U171**	—	—	DTV6-2RN2	**12U187**

** Installed with #8 screws, all others use #6 screws.*

OMRON®

Series D4C and D4CC Compact Limit Switches

- D4C are prewired; D4CC have M12 single-keyway 4-pin connector
- Operating temp.: 40° to 184°F
- Enclosure: NEMA 3, 4, and 13; IP67
- Load rating: D4C 5A max. at 250VAC; D4CC 1A max. at 125VAC and 30VDC
- Mechanical life: 10 million operations

Switches have triple-sealed construction.

D4C and No. 2CLX6 can be gang-mounted up to 6 switches. UL Listed, CSA and CE Certified.

Description	General-Purpose Item No.	Sealed (Booted) Item No.
D4C Series, SPDT		
Plunger, Roller with 3m Cable	2CLV6	2CLW1
Plunger, Roller with 3m Cable	2CLW4	2CLW2
Plunger, Roller Replacement Head	2CLW7	2CLX2
Plunger, Roller with 3m Cable	2CLV7	—
Cross Roller Plunger Replacement Head	2CLW8	2CLX3
Plunger with 3m Cable	2CLV5	2CLV9
Pin Plunger Replacement Head	2CLW6	2CLX1
Roller Lever 38mm with 3m Cable	2CLV8	—
Roller Lever 38mm with 5m Cable	2CLW5	—
Roller Lever Replacement Head	2CLW9	—
Wobble Stick with 3m Cable	2CLW3	—
Wobble Stick Replacement Head	2CLX4	—
D4CC Series, SPDT		
Plunger, Roller, AC 4-pin	2CLX5	2CLX8
Plunger, Roller, DC 4-pin	2CLX9	2CLY1
Plunger, Roller, AC 4-pin	2CLX6	—
Plunger, AC 4-pin	—	2CLX7



Roller Plunger | Plastic Rod | Roller Lever

Compact Enclosed Limit Switches

SQUARE D by Schneider Electric

- Enclosure: NEMA 1, 2, 4, 6, 6P, 12, and 13
- SPDT
- Temp. range: -4° to 221°F (-20° to 105°C)
- Completely sealed
- 40mm mounting holes

For use in limited access areas, these dependable switches feature a die-cast zinc housing and bottom cable exit. Similar to Honeywell MICRO SWITCH™ 914CE. UL Listed, CSA and CE Certified.

Actuator Style	Boot Sealed Actuator	Threaded Stem	Electrical Connection	AC Contact Rating	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
Plunger	No	No	3 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS01S0100	3KL68
Plunger	No	No	6 ft. Cable, Side Exit, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS01S0206	6HCG1
Plunger	No	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS01S0300	2F996
Plunger	No	No	18 ft. Cable, 4 Wire, 16 AWG	10A @ 300V	1.58"	1.75"	0.62"	9007MS01S0502	6HCG2
Plunger	Yes	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS10S0300	2G436
Plunger	Yes	No	18 ft. Cable, Side Exit, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS10S0506	6HCH3
Plunger, Cross Roller	No	No	3 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS03S0100	6HCG6
Plunger, Cross Roller	No	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS03S0300	2G430
Plunger, Roller	No	No	3 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS02S0100	3KL72
Plunger, Roller	No	No	6 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS02S0200	6HCG4
Plunger, Roller	No	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS02S0300	2F998
Plunger, Roller	No	No	M12 4-Pin Connector	3A @ 240V	1.58"	1.75"	0.62"	9007MS02S0054	6HCG5
Plunger, Roller	No	No	M12 4-Pin Connector	6A @ 240V	1.58"	1.75"	0.62"	9007MS02S0084	6HCG3
Plunger, Roller	No	Yes	3 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS07S0100	6HCH1
Plunger, Roller	No	Yes	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS07S0300	6HCH0
Rotary, No Lever	No	No	3 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS04S0100	4B833
Rotary, No Lever	No	No	6 ft. Cable, 4 Wire, 16 AWG	10A @ 300V	1.58"	1.75"	0.62"	9007MS04S0202	6HCG8
Rotary, No Lever	No	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS04S0300	2G432
Rotary, No Lever	No	No	12 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS04S0400	6HCG9
Rotary, No Lever	No	No	M12 4-Pin Connector	6A @ 240V	1.58"	1.75"	0.62"	9007MS04S0084	6HCG7
Wobble Stick, Cat Whisker	No	No	9 ft. Cable, 4 Wire	10A @ 300V	1.58"	1.75"	0.62"	9007MS05S0300	2G434



No. 2F996 | No. 2G436 | No. 2G432 | No. 2G434 | No. 2EF10

Description	Mfr. Model	Item No.
Levers		
Nylon Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7A1N	2EF10
Steel Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7A1	2EF09
Steel Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Back Mount	7XA1	2F988
Nylon Adjustable Radius Lever, 1⅜ to 3" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7DN	2EF20
Steel Adjustable Radius Lever, 1⅜ to 3" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7D	2EF19
Delrin Rod with Spring, 12" Radius, 0.3" Dia.	7S	2EF24

Compact Prewired Limit Switches

Dayton®

- Enclosure: NEMA 4, 6, 6P, 12, 13, and IP67
- Operating temp.: -14° to 185°F
- 10A, 300VAC/DC
- SPDT
- 3-yr. warranty

UL Listed, CSA and CE Certified.

Actuator Style	Boot Sealed Actuator	Threaded Stem	Mounting Hole Spacing	Body Width	Body Depth	PREWIRED CABLE Body Height	PREWIRED CABLE Item No.	M12 4-PIN CONNECTOR Body Height	M12 4-PIN CONNECTOR Item No.
Plunger	No	No	20mm	1.18"	0.63"	1.97"	12T944	—	—
Plunger	No	Yes	20mm	1.18"	0.63"	1.97"	12T956	—	—
Plunger	No	Yes	25mm	1.57"	0.63"	1.97"	12T931	—	—
Plunger	No	Yes	25mm	1.57"	0.63"	1.97"	12T946	—	—
Plunger	Yes	No	25mm	1.57"	0.63"	1.97"	12T932	—	—
Plunger, Cross Roller	No	No	25mm	1.57"	0.63"	1.97"	12T934	—	—
Plunger, Cross Roller	No	Yes	25mm	1.57"	0.63"	—	—	1.97"	12T953
Plunger, Cross Roller	Yes	No	25mm	1.57"	0.63"	—	—	1.97"	12T949
Plunger, Roller	No	No	20mm	1.18"	0.63"	1.97"	12T955	—	—
Plunger, Roller	No	No	25mm	1.57"	0.63"	1.97"	12T933	1.97"	12T941
Plunger, Roller	Yes	No	25mm	1.57"	0.63"	1.97"	12T935	1.97"	12T942
Rotary, Roller Lever	No	No	25mm	1.57"	0.63"	1.97"	12T937	1.97"	12T943
Wobble Stick	Yes	No	25mm	1.57"	0.63"	1.97"	12T939	1.97"	12T951
Wobble Stick, Cat Whisker	No	No	25mm	1.57"	0.63"	1.97"	12T938	—	—



No. 12T931 | No. 12T946 | No. 12T932 | No. 12T934 | No. 12T933 | No. 12T937 | No. 12T939

MICRO SWITCH™ 914CE Series Compact Limit Switches

Honeywell

- Enclosure: NEMA 1, 2, 3, 3R, 4, 6, 6P, and 13; IP66/67/68
- 5A, 250VAC
- Operating temp.: 35° to 160°F
- SPDT

Mechanical life up to 10 million operations. Precabled wiring. Zinc die-cast housing with bottom exit. UL Listed, CSA and CE Certified.

Actuator Style	Boot Sealed Actuator	Threaded Stem	Mfr. Model	3 FT. CABLE Item No.	6 FT. CABLE Item No.	9 FT. CABLE Item No.	3 FT. CABLE, SIDE EXIT Item No.	9 FT. CABLE, SIDE EXIT Item No.
Plunger	No	No	914CE1	12U188	12U189	12U210	12U201	—
Plunger	Yes	No	914CE18	12U190	12U207	12U208	12U206	12U209 †
Rotary, No Lever	No	No	914CE16	12U202 *	12U204 *	12U205 *	—	—
Wobble Stick	No	No	914CE20	12U212	12U213	12U214	—	—
Plunger, Cross Roller	No	No	914CE3	12U216	12U217	12U219	—	—
Plunger, Ball Bearing	No	No	914CE66	12U221	12U222	—	—	—
Plunger, Cross Roller	No	Yes	914CE29	12U215	—	—	—	—
Plunger, Cross Roller	Yes	No	914CE55	12U220	—	—	—	—

** Requires lever, sold separately, see Grainger.com®. † 9 ft. Cable.*



No. 12U190 | No. 12U202 | No. 12U212 | No. 12U216 | No. 12U188

MICRO SWITCH™ Snap-Action Switches

Honeywell

- SPDT
- Screw terminal type, except No. 6DXD0 has solder terminals
- 1" on center mounting holes
- Overall dim.: 1"H x 2"L x 0.7"D

BZ, BA, and BE Series feature wide operating characteristics and enhanced mechanical life up to 20,000,000 cycles. They meet 125, 250, and 480VAC, regardless of amperage. Rugged construction, low operating force, and differential travel with momentary or mechanical contact action. Elongated mounting holes allow easy and accurate mounting. Compact and lightweight with accurate repeatability. Suitable for building controls and fire suppression systems, communication systems, machine tools, door latching mechanisms, and most simple On/Off actions. UL Listed and CSA Certified. BZ and BA Series are ENEC Certified.


No. 24A083


No. 24A112


No. 6DXC4


No. 24A109


No. 6DXA7


No. 6DXA6

Actuator Type	Lever Actuator Length	Operating Force	Mfr. Model	Item No.
BZ Series, 1A @ 240V				
Lever, Roller	1.05"	6 oz.	BZ-2RW82272-A2	**24A078**
BZ Series, 5A @ 120V				
Lever, Long, Roller	2.50"	2.47 oz.	BZ-2RW8244-A2	**24A082**
BZ Series, 10A @ 120V				
Hinge, Lever	1.00"	1.25N	BZ-7RW8055151-A2-S	**24A104**
BZ Series, 15A @ 120V				
Hinge, Lever	6.00"	1 oz.	BZ-2RW863-A2	**24A091**
Hinge, Lever	1.03"	6 oz.	BZ-2RW80147-A2	**24A068**
Lever, Long, Roller	1.90"	3.5 oz.	BZ-2RW8255-A2-S	**24A086**
Lever, Roller, Short	1.03"	6 oz.	BZ-2RW82299-A2	**24A079**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RN702	**24A042**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ-A2	**24A062**
Pin, Plunger	N/A	2.5N	BZ-R178	**24A107**
Pin, Plunger	N/A	13 oz.	BZ-R72-A2	**24A031**
BZ Series, 15A @ 240V				
Hinge, Lever	2.50"	0.22N	BZ-RW84-A2	**24A116**
Hinge, Lever	2.50"	2.47 oz.	BZ-2RW805551-A2	**24A070**
Hinge, Lever	2.50"	2.5 oz.	BZ-2RW80	**24A067**
Hinge, Lever	6.31"	—	BZ-2RW53-A2	**24A066**
Hinge, Lever, Long	2.50"	0.7N	BZ-2RW824-A2	**24A083**
Leaf, Lever	1.95"	5 oz.	BZ-2RL-A2	**24A039**
Lever, Long, Roller	1.90"	3.5 oz.	BZ-2RW82	**24A071**
Lever, Long, Roller	1.90"	5 oz.	BZ-7RW82132T-S	**24A105**
Lever, Long, Roller	1.05"	6 oz.	BZ-2RW82212T	**24A074**
Lever, Long, Roller	1.90"	8 oz.	BZ-2RW825551-A2	**24A084**
Lever, Roller, Short	1.05"	2.5 to 6.5 oz.	BZ-2RW8222-A2	**24A075**
Lever, Roller, Short	1.05"	6 oz.	BZ-2RW82212-A2	**24A073**
Lever, Roller, Short	1.03"	6 oz.	BZ-2RW8225551-A2	**24A076**
Lever, Roller, Short	1.05"	6 oz.	BZ-2RW82255-A2-S	**24A077**
Lever, Roller, Short	1.03"	6 oz.	BZ-2RW822-P4	**24A080**
Lever, Roller, Short	1.03"	6 oz.	BZ-2RW822T	**24A081**
Lever, Roller, Short	1.04"	8.5 oz.	BZ-2AW822T	**24A025**
Lever, Simulated Roller	1.02"	6 oz.	BZ-2RW80147-P4	**24A069**
Overtravel, Plunger	N/A	14.0 to 20.0 oz.	BZ-3RQ1-A2	**24A097**
Overtravel, Plunger, Short	N/A	9.0 to 13.0 oz.	BZ-2RD	**24A032**
Overtravel, Plunger, Short	N/A	9.0 to 13.0 oz.	BZ-2RD42-P4	**24A033**
Overtravel, Plunger, Short	N/A	9.0 to 13.0 oz.	BZ-2RS	**24A064**
Overtravel, Plunger, Short	N/A	19 oz.	BZ-2RDS5551-A2	**24A034**
Panel Mount, Plunger	N/A	6 to 9.5 oz.	BZ-RQ1-A2	**24A112**
Panel Mount, Plunger	N/A	6 to 9.5 oz.	BZ-RQ66	**24A113**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RN730	**24A043**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ181T	**24A052**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ1T	**24A054**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ66	**24A056**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ68	**24A057**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ69	**24A058**

Actuator Type	Lever Actuator Length	Operating Force	Mfr. Model	Item No.
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ77	**24A059**
Panel Mount, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ784	**24A060**
Panel Mount, Plunger	N/A	9 to 13 oz.	BZ-2RN770	**24A044**
Pin, Plunger	N/A	9 oz.	BZ-R88-A2	**24A110**
Pin, Plunger	N/A	9 oz.	BZ-R-A2	**24A111**
Pin, Plunger	N/A	9.0 to 13.0 oz.	BZ-2R-P4	**24A048**
Pin, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ1	**24A049**
Pin, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RT	**24A065**
Pin, Plunger	N/A	15 oz.	BZ-2R5551-A2	**24A029**
Pin, Plunger	N/A	16 to 26 oz.	BZ-3YST	**24A098**
Wobble Stick	6.70"	2.5 oz.	BZ-2RQW1-A2	**24A063**
BZ Series, 15A @ 480V				
Hinge, Lever	2.50"	1 oz.	BZ-2RW84-A2	**6DXD4**
Hinge, Lever	2.50"	2.5 oz.	BZ-2RW80-A2	**6DXC9**
Lever, Long, Roller	1.90"	3.5 oz.	BZ-2RW82-A2	**6DXD3**
Lever, Long, Roller	1.26"	6 oz.	BZ-2RW826-A2	**6DXD2**
Lever, Roller	1.95"	5 oz.	BZ-2RL2-A2	**6DXC3**
Lever, Roller	1.03"	6 oz.	BZ-2RW822	**6DXD0**
Lever, Roller	1.03"	6 oz.	BZ-2RW822-A2	**6DXD1**
Overtravel, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RD-A2	**6DXC2**
Overtravel, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ1-A2	**6DXC6**
Overtravel, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RS-A2	**6DXC8**
Overtravel, Plunger	N/A	15 oz.	BZ-2RS5551-A2	**6DXC7**
Overtravel Roller, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ181-A2	**6DXC4**
Overtravel Roller, Plunger	N/A	9.0 to 13.0 oz.	BZ-2RQ18-A2	**6DXC5**
Pin, Plunger	N/A	5N	BZ-3A55T	**24A095**
Pin, Plunger	N/A	7.22N	BZ-3AT	**24A096**
Pin, Plunger	N/A	7.78N	BZ-R31	**24A109**
Pin, Plunger	N/A	9.0 to 13.0 oz.	BZ-2R-A2	**6DXC1**
Pin, Plunger	N/A	13 oz.	BZ-2R291-P4	**24A028**
BA Series, 20A @ 480V				
Hinge, Lever	2.50"	2.5 oz.	BA-2RV-A4	**24A017**
Hinge, Lever	2.50"	2.5 oz.	BA-2RVT	**24A018**
Hinge, Lever	2.50"	2.5 oz.	BA-2RV-A2	**6DXA9**
Hinge, Lever	2.50"	8 oz.	BA-2RV241-A2	**24A016**
Lever, Long, Roller	1.65"	14.0 to 22.0 oz.	BA-2RL2-A2	**24A013**
Lever, Roller	1.90"	3.5 oz.	BA-2RV2-A2	**6DXA8**
Lever, Roller	1.05"	6 oz.	BA-2RV22-A2	**6DXA7**
Overtravel, Plunger	N/A	14.0 to 22.0 oz.	BA-2RB-A2	**6DXA5**
Overtravel, Plunger	N/A	14.0 to 22.0 oz.	BA-2RQ1-A2	**6DXA6**
Panel Mount, Plunger	N/A	9 oz.	BA-2RQ1	**24A014**
Pin, Plunger	N/A	14.0 to 22.0 oz.	BA-2R708-P7	**24A009**
Pin, Plunger	N/A	14.0 to 22.0 oz.	BA-2R-A2	**6DXA4**
BE Series, 25A @ 480V				
Hinge, Lever	2.50"	3.5 oz.	BE-2RV-A4	**24A023**
Lever, Long, Roller	1.90"	6 oz.	BE-2RV2-A4	**24A022**
Lever, Roller, Short	1.05"	14.0 to 22.0 oz.	BE-2RV22-A4	**24A021**
Overtravel, Plunger	N/A	2.5 oz.	BE-2RB-A4	**24A019**
Overtravel, Plunger	N/A	14.0 to 22.0 oz.	BE-2RQ1-A4	**6DXC0**


No. 24A293


No. 24A297


No. 24A316


No. 24A275


No. 24A286


No. 24A244


No. 24A268


No. 24A265

Honeywell

MICRO SWITCH™ Miniature Switches

- 0.63"H x 1.14"L x 0.4"D
- ⅞" mounting centers
- Quick-connect terminals
- Temp. range: -40° to 180°F

Contact Form Switches	Lever Actuator Length	AC Contact Rating	Operating Force	Mfr. Model	Item No.
Lever, Long					
SPDT	0.09"	3A @ 240V	1.94 oz.	V7-6B19D8-057	**24A299**
SPDT	0.09"	15A @ 240V	3 oz.	V7-6C17D8-057	**24A306**
SPDT	1.08"	3A @ 240V	215 gf max.	V7-6B19E9-022	**24A301**
SPDT	1.29"	15A @ 240V	0.912N	V7-6C13D8-132	**24A302**
SPDT	1.41"	0.1A @ 120V	3 oz.	V7-1S17D8-022	**24A266**
SPDT	1.41"	0.1A @ 120V	1.09 oz.	V7-3S17D8-022	**24A292**
SPDT	1.41"	3A @ 240V	1.41	V7-2B17D8-022	**24A277**
SPDT	1.41"	10A @ 240V	0.29N	V7-3E17E9-022	**24A290**
SPDT	1.41"	15A @ 240V		V7-1C17D8-022	**24A252**
SPDT	2.00"	3A @ 240V	60 gf max.	V7-7B17D8-048	**24A312**
SPDT	2.02"	3A @ 240V	0.49N	V7-1B17D8-048-S	**24A243**
SPDT	2.02"	5A @ 240V	0.45N	V7-1A17D8-048	**24A236**
SPDT	2.34"	0.1A @ 120V	0.16N	V7-3S17D8-048	**24A293**
SPDT	2.34"	3A @ 240V	1.7 oz.	V7-1B17D8-048	**24A242**
SPDT	2.34"	3A @ 240V	0.71 oz.	V7-2B17D8-048	**24A278**
SPDT	2.34"	15A @ 240V	1.59 oz.	V7-1C17D8-048	**24A253**
SPDT	2.34"	21A @ 240V	1.94 oz.	V7-1V19E9-048	**24A270**
SPDT	2.44"	5A @ 240V	0.37N	V7-1A17D8-057	**24A237**
SPDT	4.00"	3A @ 240V	0.1N	V7-2B17D8-162	**24A279**
SPDT	4.00"	15A @ 240V	0.83N	V7-6C17D8-162	**24A307**
1NO	1.41"	3A @ 240V	0.4N	V7-2B27D8-022	**24A284**
1NC	1.75"	15A @ 240V	1.67N	V7-6C37E9-036	**24A310**
Lever, Long, Paddle					
SPDT	2.55"	3A @ 240V	0.1 oz.	V7-5F17D8-336	**24A297**
Lever, Long, Roller					
SPDT	1.35"	1A @ 120V	5 oz.	V7-7D17D8-207	**24A316**
SPDT	1.35"	3A @ 240V	1.59 oz.	V7-2B17D8-207	**24A282**
SPDT	1.35"	15A @ 240V	3.17 oz.	V7-1C17D8-207	**24A255**
SPDT	1.35"	21A @ 240V	0.97N	V7-1V19E9-207	**24A271**
Lever, Roller					
SPDT	1.35"	5A @ 240V	0.42N	V7-2A17D8-207	**24A275**

Contact Form Switches	Lever Actuator Length	AC Contact Rating	Operating Force	Mfr. Model	Item No.
Lever, Roller, Short					
SPDT	0.82"	0.1A @ 120V	0.88N	V7-2S17D8-201	**24A286**
SPDT	0.82"	3A @ 240V	3.1 oz.	V7-2B17D8-201	**24A281**
SPDT	0.82"	3A @ 240V	10 oz.	V7-7B17D8-201	**24A313**
SPDT	0.82"	15A @ 240V	6.1 oz.	V7-1C13D8-201	**24A249**
SPDT	0.82"	15A @ 240V	6.1 oz.	V7-1C17D8-201	**24A254**
SPDT	0.82"	15A @ 240V	6.1 oz.	V7-1C17E9-201	**24A260**
Lever, Short					
SPDT	0.87"	15A @ 240V	5.5 oz.	V7-1C17D8-002	**24A251**
SPDT	0.87"	15A @ 240V	14.6 oz.	V7-6C18D8-002	**24A309**
SPDT	1.41"	3A @ 240V		V7-1B17D8-022	**24A241**
SPDT	1.41"	3A @ 240V		V7-1B19D8-022	**24A247**
SPDT	1.63"	3A @ 240V	0.42N	V7-1B17D8-122	**24A244**
Lever, Simulated Roller					
SPDT	0.97"	10A @ 240V	33 gf max.	V7-3E19E9-263	**24A291**
SPDT	1.15"	3A @ 240V	0.3 oz.	V7-5F17D8-289	**24A296**
SPDT	1.29"	0.1A @ 120V	3.17 oz.	V7-1S17D8-263	**24A268**
SPDT	1.29"	3A @ 240V	3.17 oz.	V7-1B17D8-263	**24A246**
SPDT	1.29"	11A @ 240V	5 oz.	V7-7B19D8-263	**24A314**
SPDT	1.29"	15A @ 240V	3.2 oz.	V7-1C17D8-263	**24A256**
SPDT	1.29"	15A @ 240V	8 oz.	V7-6C17D8-263	**24A308**
Pin, Plunger					
SPDT	N/A	0.1A @ 120V	5 oz.	V7-1S17D8	**24A265**
SPDT	N/A	3A @ 240V	5.3 oz.	V7-1B17D8	**24A240**
SPDT	N/A	3A @ 240V	2.63 oz.	V7-2B17D8	**24A276**
SPDT	N/A	3A @ 240V	0.74N	V7-2B17E9	**24A283**
SPDT	N/A	3A @ 240V	0.53 oz.	V7-5F17D8	**24A295**
SPDT	N/A	3A @ 240V	6 to14 oz.	V7-6B19D8	**24A298**
SPDT	N/A	3A @ 240V	8 oz.	V7-7B17D8	**24A311**
SPDT	N/A	3A @ 240V	8 oz.	V7-7B19E9	**24A315**
SPDT	N/A	5A @ 240V	1.47N	V7-1A17D8	**24A235**
SPDT	N/A	5A @ 240V	0.25N	V7-4A17D8	**24A294**
SPDT	N/A	10A @ 240V	1.7 oz.	V7-3E17D8	**24A288**
SPDT	N/A	10A @ 240V	0.49N	V7-3E17E9	**24A289**
SPDT	N/A	15A @ 240V	5.3 oz.	V7-1C17D8	**24A250**
SPDT	N/A	15A @ 240V	150 gf max.	V7-1C17D844	**24A257**
SPDT	N/A	15A @ 240V	5.3 oz.	V7-1C17E9	**24A259**
SPDT	N/A	15A @ 240V	6 to14 oz.	V7-6C17D8	**24A303**
SPDT	N/A	21A @ 240V	7.9 oz.	V7-1V19E9	**24A269**
SPDT	N/A	25A @ 240V	7.9 oz.	V7-1Z19E9	**24A273**
1NO	N/A	15A @ 240V	1.47N	V7-1C27E9	**24A262**
1NO	N/A	21A @ 240V	2.22N	V7-1V29E9	**24A272**
1NC	N/A	3A @ 240V	1.47N	V7-1B37D8	**24A248**
1NC	N/A	15A @ 240V	5.3 oz.	V7-1C37D8	**24A263**

OMRON®

Snap-Action Switches

Functionally interchangeable with Unimax 2HB series. UL Recognized and CSA Certified.

Series A—For heavy-duty applications.

Series Z—High-precision general-purpose switches. No. 3XG49 is dripproof (IP62).

Series X—For DC applications.

Series DZ—Switches have 2 circuits.

Series TZ—High-temperature switches with max. ambient and operating temp. of 752°F (400°C).


No. 3XG30


No. 3XG50


No. 6X284


No. 6X285


No. 2XC12


No. 3XG53


No. 6X286


No. 2XC11


No. 6X283


No. 3XG52

Actuator Type	Lever Actuator Length	SERIES A, SPDT, 20A @ 480VAC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.	SERIES Z, SPDT, 15A @ 480VAC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.	SERIES X, SPDT, 10A @ 120VDC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.
Cross Roller, Panel Mount, Plunger	N/A	22.24 oz.	2KRJ7	22.24 oz.	2KRK4	8.8 to 12.3 oz.	3XG50	19.06 oz.	2KRL8	18.00 oz.	2KRP2	18.00 oz.	2KRR5
Hinge, Lever	2.50"	2.5 oz.	6X289	2.47 oz.	2KRK6	2.5 oz.	6X284	2.47 oz.	2KRN1	3.88 oz.	2KRP4	3.88 oz.	2KRR6
Hinge, Lever	2.50"	—	—	—	—	0.99 oz.	3XG54	0.99 oz.	2KRN3	0.88 oz.	2KRP6	—	—
Hinge, Lever, Short	1.12"	5.65 oz.	2KRJ9	5.65 oz.	2KRK8	—	—	—	—	—	—	—	—
Hinge, Lever, Short	1.11"	—	—	—	—	5.65 oz.	2KRL1	—	—	—	—	8.83 oz.	2KRR9
Hinge Roller, Lever	1.91"	3.2 oz.	6X290	3.18 oz.	2KRK7	3.5 oz.	6X285	—	—	5.12 oz.	2KRP5	5.12 oz.	2KRR7
Hinge Roller, Lever	1.05"	—	—	—	—	—	—	4.59 oz.	2KRN2	—	—	—	—
Hinge Roller, Lever, Short	1.03"	5.6 oz.	2XC10	5.65 oz.	2KRK9	—	—	—	—	—	—	—	—
Hinge Roller, Lever, Short	1.05"	—	—	—	—	5.6 oz.	2XC12	7.06 oz.	2KRN5	7.77 oz.	2KRP8	7.77 oz.	2KRT1
Lever, Roller	1.26"	—	—	—	—	6.0 oz.	3XG53	6.35 oz.	2KRN6	—	—	—	—
Panel Mount, Plunger	N/A	14.1 to 22.0 oz.	6X288	14.12 to 22.06 oz.	2KRK3	8.8 to 12.3 oz.	6X286	19.06 oz.	2KRL7	18.00 oz.	2KRP1	—	—
Panel Mount, Plunger, Roller	N/A	22.24 oz.	2KRJ8	22.24 oz.	2KRK5	8.8 to 12.3 oz.	2XC11	8.83 to 12.36 oz.	2KRL9	18.00 oz.	2KRP3	—	—
Pin, Plunger	N/A	14.1 to 22.0 oz.	6X287	14.12 to 22.06 oz.	2KRK1	8.8 to 12.3 oz.	6X283	8.83 to 12.36 oz.	2KRL2	18.00 oz.	2KRN7	18.00 oz.	2KRP9
Plunger	N/A	—	—	—	—	19.1 oz.	3XG52	8.83 to 12.36 oz.	2KRL4	—	—	—	—
Plunger	N/A	—	—	—	—	8.8 to 12.3 oz.	3XG51	8.83 to 12.36 oz.	2KRL3	—	—	18.00 oz.	2KRR1
Plunger, Short	N/A	—	—	—	—	19.1 oz.	3XG49	19.10 oz.	2KRL6	—	—	—	—
Plunger, Short	N/A	14.1 to 22.0 oz.	3XG30	14.12 to 22.06 oz.	2KRK2	8.8 to 12.3 oz.	3XG48	8.83 to 12.36 oz.	2KRL5	18.00 oz.	2KRN9	—	—

Actuator Type	Over Travel	SERIES DZ, DPDT, 10A @ 240VAC Screw Terminal Item No.	Solder Lug Terminal Item No.	SERIES TZ, SPDT, 1A @ 240VAC Screw Terminal Item No.
Hinge, Lever	0.016"	3XG31	2KRT4	—
Hinge, Lever	0.063"	6C917	2KRT7	—
Hinge, Lever	0.181"	—	—	2KRU2
Hinge Roller, Lever	0.005"	3XG32	2KRT6	—
Hinge Roller, Lever	0.035"	6C918	2KRT9	—

Actuator Type	Over Travel	SERIES DZ, DPDT, 10A @ 240VAC Screw Terminal Item No.	Solder Lug Terminal Item No.	SERIES TZ, SPDT, 1A @ 240VAC Screw Terminal Item No.
Hinge Roller, Lever	0.047"	6C919	2KRT8	—
Hinge Roller, Lever	0.138"	—	—	2KRU3
Hinge Roller, Lever, Short	0.075"	—	—	2KRU4
Pin, Plunger	0.005"	6C916	2KRT3	2KRU1

Snap-Action Switches

GA GRAINGER APPROVED

Designed with 10, 15, 20, 25A ratings and a wide variety of actuators for differer applications. Provide high precision with long mechanical life. V Series feature low operating force and miniature size. Z Series have a high motor-load rating. For use with direct-to-switch loads like motors, halogen lamps, and solenoids; also for use with foot switches, flow switches, door interlocks, and applications requiring compact or miniature switches. UL and C-UL Listed. RoHS compliant.

Actuator Type	AC Contact Rating	Lever Actuator Length	Operating Force	Height	Width	Depth	Item No.
S Series, ¼" Quick Connect Terminals, 1.00" Centers, DPDT							
Hinge, Lever	15A @ 240V	1.50"	7.48 oz.	1.12"	1.82"	0.64"	5JEH2
Hinge Roller, Lever	15A @ 240V	1.39"	7.48 oz.	1.12"	1.82"	0.64"	5JEH3
Hinge Roller, Lever	20A @ 240V	1.39"	14.98 oz.	1.12"	1.82"	0.64"	5JEH8
Pin, Plunger	20A @ 240V	N/A	45.11 oz.	1.12"	1.82"	—	5JEH5
S Series, ¼" Quick Connect Terminals, 1.00" Centers, SPDT							
Panel Mount, Plunger	15A @ 240V	N/A	14.98 oz.	0.64"	1.82"	0.64"	6A887
V Series, 3⁄16" Quick Connect Terminals, 0.87" Centers, SPDT							
Hinge, Lever	10A @ 240V	1.07"	1.31 oz.	0.62"	1.09"	—	6X292
Hinge, Lever	10A @ 240V	1.09"	2.65 oz.	0.62"	1.09"	—	5JDZ7
Hinge, Lever, Long	10A @ 240V	2.01"	0.72 oz.	0.62"	1.09"	0.41"	5JDZ9
Hinge, Lever, Long	15A @ 240V	2.01"	3.11 oz.	0.62"	1.09"	0.41"	5JED0
Hinge, Lever, Short	10A @ 240V	1.09"	7.05 oz.	0.62"	1.09"	—	5JEA4
Hinge, Lever, Short	15A @ 240V	1.09"	7.05 oz.	0.62"	1.09"	—	5JEC1
Hinge, Lever, Short	15A @ 240V	1.09"	10.58 oz.	0.62"	1.09"	—	5JEC8
Lever, Long, Roller	15A @ 240V	1.00"	4.41 oz.	0.62"	1.09"	0.41"	5JEC6
Lever, Simulated Roller	10A @ 240V	2.01"	4.41 oz.	0.62"	1.09"	0.41"	5JEA7
Plunger	15A @ 240V	N/A	7.05 oz.	0.62"	1.09"	—	5JEC0
Z Series, Screw Terminals, 1.00" Centers, SPDT							
Hinge, Lever	15A @ 480V	2.50"	0.99 oz.	1.51"	1.94"	0.69"	5JEE1
Hinge, Lever	25A @ 480V	1.50"	3.53 oz.	0.64"	1.82"	0.64"	5JEG2
Hinge, Lever, Short	15A @ 480V	1.12"	3.70 oz.	1.35"	1.94"	0.69"	5JEE2
Hinge Roller, Lever	15A @ 480V	1.04"	5.64 oz.	1.66"	1.94"	0.69"	5JEE4
Hinge Roller, Lever	20A @ 480V	1.91"	3.53 oz.	2.02"	1.94"	0.69"	5JEF2
Hinge Roller, Lever	25A @ 480V	1.39"	3.53 oz.	0.64"	1.82"	0.64"	5JEG3
Leaf, Lever	15A @ 480V	1.94"	5.29 oz.	1.18"	0.69"	—	5JEE6
Leaf Roller, Lever	15A @ 480V	1.94"	5.29 oz.	1.62"	1.94"	—	5JEE7
Panel Mount, Plunger	15A @ 480V	N/A	12.34 oz.	1.24"	1.94"	—	5JED7
Panel Mount, Plunger	20A @ 480V	N/A	22.03 oz.	1.28"	1.94"	—	5JEF0


No. 6A887


No. 6X292



No. 5JEE4



No. 5JEE9

Actuator Type	AC Contact Rating	Lever Actuator Length	Operating Force	Height	Width	Depth	Item No.
Panel Mount, Plunger	25A @ 480V	N/A	22.03 oz.	1.28"	1.94"	—	5JEF8
Panel Mount, Plunger, Roller	15A @ 480V	N/A	12.34 oz.	1.70"	1.94"	—	5JED9
Pin, Plunger	15A @ 480V	N/A	12.34 oz.	0.95"	1.94"	—	5JED4
Pin, Plunger	25A @ 480V	N/A	14.98 oz.	0.64"	1.82"	—	5JEG0
Plunger, Short	15A @ 480V	N/A	12.34 oz.	1.23"	1.94"	—	5JED5
Plunger, Short	20A @ 480V	N/A	22.03 oz.	1.45"	1.94"	—	5JEE9



Cable Pull Emergency Stop Switch



Cable Kit No. 10N099

Cable Pull Emergency Stop Switch and Cable Tension Kits

STI SAFETY, TECHNOLOGY & INNOVATION
OMRON

- Die-cast alloy case
- Vibration tolerant—no nuisance tripping
- NEMA 6 (IP66)

Combination cable and push button-actuated switch handles cable spans up to 246 ft. (75m). Built-in tension status indicator eases installation and troubleshooting. Heavy-duty housing stands up to demanding industrial applications and withstands water washdown cleaning. An integral E-stop button provides emergency stopping capability at the end of a cable run. Lid-mounted status indicator allows easy setup and maintenance. Designed for a minimum of 1 million actuations. Cable tension kit required, sold separately. UL and C-UL Listed and CE Certified.

AC Contact Rating	Operating Force	Reset	Contact Form	Mfr. Model	Item No.
Cable Pull Emergency Cable Pull Switch Switch					
6A @ 120VAC, 3A @ 240VAC	28 lb.	Push Button	2NC/1NO	44506-5220	**10N118**

For Use With	Mfr. Model	Item No.
Cable Kits		
Mfr. No. ER6022-021NE	44506-2705	**10N099**
Mfr. No. ER6022-021NE	44506-2710	**10N101**
Mfr. No. ER6022-021NE	44506-2720	**10N104**
Mfr. No. ER6022-021NE	44506-2730	**10N111**

Description	Mfr. Model	Item No.
Mounting Accessories		
Eyebolt	44506-0720	**2LCE5**
Spring Tension	44506-0730	**2LCE6**



11CPSA Series No. 11T746



2CPSA Series No. 11T762

Emergency Cable Pull Switches

Honeywell

- 15A, 300VAC/DC
- Maintained contacts

NEMA rated 1, 4, 12, 13, and IP67. Rotary knob reset. ½" NPT conduit entry.

Contact Form	NONE Mfr. Model	NONE Item No.	INDICATOR 24VDC RED LED Mfr. Model	INDICATOR 24VDC RED LED Item No.	120VAC RED LED Mfr. Model	120VAC RED LED Item No.
1CPSA Series, Single Cable, Left or Right Side Actuated, 250 ft. Cable Span						
1NC/1NO, Gold-Plated	1CPSA5	**11T756**	—	—	—	—
1NC/1NO, Silver	1CPSA1	**11T746**	1CPSA1A	**11T747**	1CPSA1B	**11T748**
2NC/2NO, Gold-Plated	—	—	1CPSA6A	**11T758**	1CPSA6B	**11T759**
2NC/2NO, Silver	1CPSA2	**11T749**	1CPSA2A	**11T750**	1CPSA2B	**11T751**
4NC, Silver	1CPSA4	**11T755**	—	—	—	—
2CPSA Series, Dual Cable, Left and Right Side Actuated, 500 Ft. Cable Span						
2NC/2NO, Gold-Plated	2CPSA1A1	**11T762**	2CPSA1A1A	**11T763**	2CPSA2A1B	**11T782** *
2NC/2NO, Gold-Plated	—	—	2CPSA2A1A	**11T781** *	2CPSA1A1B	**11T764**
3NC/1NO, Gold-Plated	2CPSA1B1	**11T771**	—	—	—	—
2CPSA Series, Single Cable, Left Side Actuated, 250 ft. Cable Span						
2NC/2NO, Gold-Plated	—	—	—	—	2CPSA1A2B	**11T767**
2CPSA Series, Single Cable, Right Side Actuated, 250 ft. Cable Span						
2NC/2NO, Gold-Plated	2CPSA2A3	**11T786** *	2CPSA1A3A	**11T769**	—	—

**** Includes removable contact blocks.***



L1 Series No. 2FM01



XY2CE Series No. 4B785

Cable Pull Switches

SQUARE D by Schneider Electric
Telemecanique Sensors

Switches signal an emergency or normal stop at any point along a 165-ft. cable. Taut-cable principle ensures switch will activate if the cable is broken. Positive latching, force, and adjustment indicators. UL Listed and CSA Certified.

Emergency cable pull features latching contact (reset by push button) and positive opening contacts. Normal cable pull provides momentary action (no reset) and snap-action contact. Nos. 4B787 and 4B784 are recommended for outdoor applications where icy conditions are likely. No 2FM01 provides 600VAC max. service for industrial applications.

CABLE KITS

Contain 1 galvanized steel cable with red jacket, 1 turnbuckle, 4 cable grip clamps, 1 fixed cable support, 1 end spring, and 3 wire end protective guards.

Switch Function	Cable Connection Location	Reset	Contact Form	Indicator	Brand	Mfr. Model	Item No.
L1 Series Cable Pull Switches							
Maintained	Right	Not Applicable	1NC/1NO	None	Square D	L1432M	**2FM01** *
XY2CE Series Cable Pull Switches							
Maintained	Right	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE1A150H7	**4B789**
Maintained	Right	Booted Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE1A250H7	**4B787**
Maintained	Right	Push Button	2NC/2NO	24/120VAC LED	Telemecanique Sensors	XY2CE1A196H7	**4B788**
Maintained	Left	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE2A150H7	**4B786**
Maintained	Left	Booted Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE2A250H7	**4B784**
Maintained	Left	Push Button	2NC/2NO	24/120VAC LED	Telemecanique Sensors	XY2CE2A196H7	**4B785**
Momentary	Right	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE3A010H7	**4B783**
Momentary	Left	—	1NC/1NO	None	Telemecanique Sensors	XY2CE4A010H7	**4B782**
Cable Kits and Accessories							
Cable Kit, 82 ft.					Telemecanique Sensors	XY2CZ9325	**4B779**
Cable Kit, 164 ft.					Telemecanique Sensors	XY2CZ9350	**4B778**
Cable Grip, Single, For 0.118" to 0.196" Cable Dia.					Telemecanique Sensors	XY2CZ503	**4B781**
Cable Support, 0.35" Deep, 5/16" Coarse Thread					Telemecanique Sensors	XY2CZ601	**4B780**
Cable Pull Lever Arm for Use With No. 2FM01, 3" Aluminum					Square D	KB	**2EH37**

**** Requires lever arm No. 2EH37, sold separately.***



Cable Kit No. 4B778

Dayton

22mm E-Stops, Mushroom-Head Push Buttons—Complete Units

- Red, 40mm-dia. head
- Maintained contact
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated



No. 30G254

Action	Contact Form	PLASTIC Item No.	CHROME DIE CAST ALUMINUM Item No.
Push / Turn To Release	1NC	30G252	30G253
Push / Turn To Release	1NO/1NC	30G254	30G255
Push / Pull - Trigger Release	1NO/1NC	30G250	30G251
Push / Pull	1NC	30G248	30G249
Push / Key Release	1NC	30G256	30G257
Push / Key Release	1NO/1NC	32UK35	30G258

Schneider Electric

22mm Emergency Stop Mushroom-Head Push Buttons—Complete Units

- Red, 40mm dia. trigger-action operator
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Include operator, cap, and contact block for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.



No. 2UZD4

Description	Contact Form	PLASTIC Item No.	CHROME Item No.
Turn to Release, Maintained, Trigger Release	1NO/1NC	6HL63	6HK79
Turn to Release, Maintained, Trigger Release	1NC	33HP37	—
Push-Pull, Maintained, Trigger Release	1NO/1NC	2UZD4	6HK82
Push-Pull, Maintained	1NC	33HP38	33HP36
Key Release, Maintained, Trigger Release	1NO/1NC	2UZD6	6HK80

Emergency Stop Switches, Enclosure, and Legend Plates

SAFETY, TECHNOLOGY & INNOVATION

OMRON

SWITCHES

- Plastic construction
- Red operator

Switches allow direct disconnect of circuit contacts in emergency situations. Easy to spot, access, and use. On/Off operation, push to lock, turn to reset. Safety lock mechanism prevents operating errors; finger protection mechanism for added safety. Easy mounting and removal of switch blocks, using a lever. Oil-resistant to IP65. UL Listed and CE Certified.



No. 2LCB1



No. 2LCB6

Contact Type	NONLIGHTED Size	Mfr. Model	Item No.	LIGHTED Size	Voltage	Mfr. Model	Item No.
16mm Mount, 5A at 125VAC, 3A at 250VAC							
SPST-NC	16mm	11002-7007	2LCB3	16mm	24VAC/DC	11002-7003	2LCB1
DPST-NC	16mm	11002-7008	2LCB4	16mm	24VAC/DC	11002-7004	2LCB2
22mm Mount, 10A at 110VAC, 6A at 220VAC							
DPST-NC	22mm	11004-7002	2LCB8	22mm	24VAC/DC	11004-7010	2LCB7
DPST-NC	22mm	A22EM02B	2LCB9 *	—	—	—	—
DPST-NC, SPST-NO	22mm	11004-7051	2LCC1	—	—	—	—
DPST-NC	22mm	11004-7013	2LCB6	—	—	—	—

** With integrated control box.*

No. of Holes	Hole Size	H (in.)	W (in.)	D (in.)	Contact Block Depth (in.)	Mfr. Model	Item No.
Control Box Pushbutton Enclosure, NEMA 4X, Yellow Plastic							
1	22mm	2.67	2.67	2.73	2.15	11003-0061	2LCC2

Description	Mfr. Model	Item No.
Legend Plates		
Blank, For Use with 16mm Push-Buttons, Yellow Field	11001-6115	2LCB5
"Emergency Stop", For Use with 22mm Push-Buttons, Black Letters on Yellow Field	11003-0053	2LCC3
"Emergency Off", For Use with 22mm Push-Buttons, Black Letters on Yellow Field	11003-0154	2LCC4

EATON

22mm and 30mm Emergency Stop Push Buttons

- Red mushroom head
- Nonilluminated



No. 30XF73



No. 39P798

Action	Contact Form	Legend	Head Material	Mfr. Model	Item No.
22mm Hole Dia., 45mm Mushroom Head					
Main. Push / Main. Pull	1NC	No Legend	Plastic	M22-PV-K01	30XF74
Main. Push / Turn To Release	1NC	No Legend	Plastic	M22-PVT-K01	30XF75
Main. Push / Turn To Release	2NC	No Legend	Plastic	M22-PVT-K02	30XF73
30mm Hole Dia., 40mm Mushroom Head					
Main. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T9B62-3X	39P798
Main. Push / Main. Pull	1NC	Emergency Stop	Metal	10250T5B63-71X	39P790
Main. Push / Main. Pull	1NC	No Legend	Plastic	10250T5B62-71X	39P789
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Metal	10250T5B63-1X	39P794
Main. Push / Main. Pull	1NO/1NC	No Legend	Metal	10250T5B62-1X	39P793
Mom. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T4B62-3X	39P802 †
Mom. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T10B62-1X	39P804 ‡
30mm Hole Dia., 65mm Mushroom Head					
Main. Push / Main. Pull	1NC	Emergency Stop	Metal	10250T5J63-71X	39P792
Main. Push / Main. Pull	1NC	No Legend	Metal	10250T5J62-71X	39P791
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Aluminum	10250T5J63-1X	39P795
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Aluminum	10250ED1080-2	39P796 *

** Special security jumbo mushroom head. † Contact configuration: XX 0X 00*
‡ Contact configuration: 0X 00 X0

Emergency Push-Button Stations

- 600VAC
- Contact: 1NC
- Contact rating: 10A, A600/Q300

Designed with red operator. Wall-mountable. Metallic series includes legend. UL Listed, CSA Certified.



No. 29YK60

Type of Operator	H	W	D	Mfr. Model	Item No.
Non-Metallic, NEMA 4X					
Push Button with Mushroom Head	2.83"	2.83"	2.10"	GE-ESNM	29YK51
Push Button with Flag	2.83"	2.83"	2.10"	GE-ESNMF	29YK52
Mushroom Head with Key	2.83"	2.83"	2.10"	GE-ESNMK	29YK53
Cast Aluminum, NEMA 4X					
Push Button with Mushroom Head	3.43"	3.43"	2.95"	GE-ESCA	29YK60
Mushroom Head with Flag	3.43"	3.43"	2.95"	GE-ESCAF	29YK61
Mushroom Head with Key	3.43"	3.43"	2.95"	GE-ESCAK	29YK62
Stainless Steel, NEMA 4X					
Push Button with Mushroom Head	5.00"	3.50"	4.25"	GE-ESSS	29YK57
Push Button with Flag	5.00"	3.50"	4.25"	GE-ESSSF	29YK58
Push Button with Key	5.00"	3.50"	4.25"	GE-ESSSK	29YK59
Carbon Steel, NEMA 12					
Push Button with Mushroom Head	5.00"	3.50"	4.25"	GE-ESCS	29YK54
Push Button with Flag	5.00"	3.50"	4.25"	GE-ESCSF	29YK55
Mushroom Head with Key	5.00"	3.50"	4.25"	GE-ESCSK	29YK56

Dayton

Emergency Push-Button Stations

- Contact: 1NC
- Contact rating: 10A at 600VAC
- Maintained operators are push/pull action

Gray enclosures. Red plastic operator heads have imprinted "Emergency Stop." UL Listed and CSA Certified.

Description	H	W	D	Momentary Item No.	Maintained Item No.
Stainless Steel, NEMA 4X					
40mm Dia. Head	5.50"	3.50"	4.25"	36UX17	36UX18
65mm Dia. Head	5.50"	3.50"	4.25"	36UX19	36UX20
40mm Dia. Illum. Head, 24VAC/DC	5.50"	3.50"	4.25"	36UX21	36UX22
40mm Dia. Illum. Head, 120VAC/DC	5.50"	3.50"	4.25"	36UX23	36UX24
Carbon Steel, NEMA 12					
40mm Dia. Head	5.50"	3.50"	4.25"	36UX25	36UX26
65mm Dia. Head	5.50"	3.50"	4.25"	36UX27	36UX28
40mm Dia. Illum. Head, 24VAC/DC	5.50"	3.50"	4.25"	36UX29	36UX30
40mm Dia. Illum. Head, 120VAC/DC	5.50"	3.50"	4.25"	36UX31	36UX32
Valox, NEMA 4X					
40mm Dia. Head	4.36"	3.18"	3.66"	36UX33	36UX34
65mm Dia. Head	4.36"	3.18"	3.66"	36UX35	36UX36
40mm Dia. Illum. Head, 24VAC/DC	4.36"	3.18"	3.66"	36UX37	36UX38
40mm Dia. Illum. Head, 120VAC/DC	4.36"	3.18"	3.66"	36UX39	36UX40



No. 36UX17


No. 20LE98


No. 2LCC7


No. 2LCC9


No. 2LCE8


No. 2LCJ4


No. 2LCH6

Safety Interlock Switches

SAFETY, TECHNOLOGY & INNOVATION

OMRON

TONGUE-OPERATED

Heads can be rotated in 4 directions, 8 for T2007 Series. Rated 5A at 100VAC, 2A at 250VAC, 1A at 500VAC, 2A at 24VDC, 0.5A at 250VDC. Includes ½" NPT conduit adapter.

D4NS Series—Switches handle both standard loads and micro-loads. Actuation keys sold separately.

D4BS Series—Actuation key (sold separately) prevents malfunctions and false operation. Switches conform to EN (TUV), BIA, and SUVA standards. UL Listed and CSA Certified.

TL4019 Series—Withstand water washdown cleaning. Feature 4 contacts and rear manual release. Narrow profile with rotatable head. Optional key release and optional slide bolt.

T5009 and T2007 Series—Withstand water washdown cleaning. Min. 1 million actuations. Miniature T2007 Series fit on 1" square tubing.

MAGNETICALLY ACTUATED, MA-16 SERIES

Completely encapsulated for use in harsh or wet environments. Tolerate guard door misalignment up to 10mm (0.39"). Min. 1 million actuations. UL and C-UL Listed and CE Certified.

W	H	D	1NO/1NC Item No.	1NO/2NC Item No.	2NC Item No.
Tongue-Operated, D4NS Series, 250VDC/500VAC, IP67, -30° to 70°C, M20 Conduit Size, Requires Key					
1 7/32"	4 49/64"	1 3/16"	2LF01	2LF03	2LF02
Tongue-Operated, D4BS Series, 250VDC/500VAC, IP67, -40° to 80°C, M20 Conduit Size, Requires Key					
1 9/16"	4 3/8"	1 11/16"	2LE98	—	2LE99

Straight Item No.	Adjustable Straight Item No.	Right Angle Item No.
Actuation Keys		
2LCC7	2LCC9	2LCC8
Actuation Keys		
2LCD4	2LCD6	2LCD5

Description	W	H	D	1NC Item No.	1NO/1NC Item No.	1NO/2NC Item No.	2NC Item No.	2NO/2NC Item No.
Tongue-Operated, TL4019 Series, 250VDC/500VAC, NEMA 6, -4° to 131°F, M20 Conduit Size, Include Flat Key								
24VAC Solenoid, Flat Actuator	1.57"	7.56"	1.57"	—	—	—	—	10N125
Tongue-Operated, T5009 Series, 250VDC/500VAC, NEMA 6, -4° to 176°F, M20 Conduit Size, Include Flat Key								
Flex Actuator	2.05"	3.74"	1.26"	—	2LCJ4	—	—	—
Standard Actuator	2.05"	3.74"	1.26"	—	—	2LCJ5	—	—
Tongue-Operated, T2007 Series, 250VDC/500VAC, NEMA 6, -4° to 176°F, M16 Conduit Size, Include Flat Key								
90° Actuator	0.98"	1.14"	2.95"	—	2LCH8	—	2LCH6	—
Flat Actuator	0.98"	1.14"	2.95"	—	2LCH9	—	2LCH7	—
Magnetically Actuated, MA-16 Series, ABS Body, NEMA 6, 14° to 131°F, Includes Actuator								
12 to 240VAC, 3m Cable	0.75"	0.75"	3.31"	2LCE8	2LCF1	2LCF5	2LCF3	—
12 to 240VAC, 5m Cable	0.75"	0.75"	3.31"	2LCE9	2LCF2	2LCF6	2LCF4	—
12 to 24VDC, 3m Cable	0.75"	0.75"	3.31"	2LCF7	2LCF9	2LCG4	2LCG2	—
12 to 24VDC, 5m Cable	0.75"	0.75"	3.31"	2LCF8	2LCG1	2LCG5	2LCG3	—


No. 10D242


No. 10D243


No. 10D245


No. 10D285


No. 14L743


No. 14L754


No. 10D253

Safety Interlock Switches

Telemecanique Sensors

XCS models are used for packaging, food and beverage, automotive/machine tool, and material handling applications. XCSLE and XCSLF models are used for cutting, slicing, shredding, grinding, mixing, packaging, and other processes where chemicals or fumes may be dangerous. IP67 rated.

Item	For Use With: XCSA, XCSB, XCSC, XCSE Mfr. Model	XCSA, XCSB, XCSC, XCSE Item No.	XCSPA, XCSTE Mfr. Model	XCSPA, XCSTE Item No.	XCSMP Mfr. Model	XCSMP Item No.
Actuating Keys						
Straight Actuating Key	XCSZ01	10D260	XCSZ11	10D264	XCSZ81	10D269
Wide Mounting Actuating Key	XCSZ02	10D261	XCSZ12	10D265	—	—
Pivoting Actuating Key	XCSZ03	10D262	XCSZ13	10D266	—	—
Sliding Bolt Actuating Key	XCSZ05	10D263	—	—	—	—
Right Angle Actuating Key	—	—	XCSZ14	10D267	XCSZ84	10D271
Pivoting Actuating Key for Right-Hand Door	—	—	—	—	XCSZ83	10D270
Pivoting Actuating Key for Left Hand Door	—	—	—	—	XCSZ85	10D272
Guard Retaining Device	—	—	XCSZ21	10D268	—	—

Description	Actuator Length	Solenoid Voltage	H	W	D	Contact Form	Mfr. Model	Item No.	Contact Form	Mfr. Model	Item No.
Actuating Key											
½" NPT Conduit	Key Dependent	—	1.73"	1.57"	4.47"	1NO/2NC	XCSA703	10D242	—	—	—
½" NPT Conduit	Key Dependent	—	1.18"	1.18"	4.21"	2NC	XCSPA793	10D252	1NO/1NC	XCSPA593	10D251
6.6 ft. Dead End Cable	Key Dependent	—	0.59"	1.18"	3.42"	1NO/1NC	XCSMP59L2	10D247	1NO/2NC	XCSMP70L2	10D248
6.6 ft. Dead End Cable	Key Dependent	—	0.59"	1.18"	3.42"	2NC	XCSMP79L2	10D249	3NC	XCSMP80L2	10D250
Actuating Key, Push Button Release											
½" NPT Conduit	Key Dependent	—	1.73"	2.05"	4.47"	1NO/2NC	XCSB703	10D243	—	—	—
Actuating Key, Solenoid Locking											
½" NPT Conduit	Key Dependent	24V	1.73"	3.86"	5.75"	1NO/2NC	XCSE7313	10D245	—	—	—
½" NPT Conduit	Key Dependent	120V	1.73"	3.86"	5.75"	—	—	—	1NO/2NC	XCSE7333	10D246
½" NPT Conduit	Key Dependent	24VAC/DC	1.30"	4.33"	3.68"	2NC	XCSTE7313	10D258	—	—	—
½" NPT Conduit	Key Dependent	120VAC	1.30"	4.33"	3.68"	—	—	—	2NC	XCSTE7333	10D259
Actuating Key, Tubular Key Unlock											
½" NPT Conduit	Key Dependent	—	1.73"	2.05"	4.47"	1NO/2NC	XCSC703	10D244	—	—	—
Elbowed Lever Operated											
½" NPT Conduit	2.85"	—	1.18"	1.18"	7.06"	1NO/1NC	XCSPL583	10D254	2NC	XCSPL783	10D256
Magnetically Actuated Safety Interlock Switch											
Compact Rectangular, 6.6 ft. Cable			2.01"	0.63"	0.28"	1NO/1NC	XCSDMC5902	10D277	2NC	XCSDMC7902	10D279
Compact Rectangular, 6.6 ft. Cable			2.01"	0.63"	0.28"	1NO/1NC	XCSDMC5912	10D278	2NC	XCSDMC7912	10D280
Cylindrical, 30mm, 6.6 ft. Cable			1.52"	—	—	1NO/1NC	XCSDMR5902	10D285	2NC	XCSDMR7902	10D287
Rectangular, 6.6 ft. Cable			3.46"	0.98"	0.52"	2NO/1NC	XCSDMP5002	10D281	1NO/2NC	XCSDMP7002	10D283
Self Contained, SIL 2, 6.6 ft. Cable			3.94"	1.34"	1.26"	2NO	XCSDM379102	10D273	—	—	—
Self Contained, SIL 3, 6.6 ft. Cable			3.94"	1.34"	1.26"	2NO	XCSDM480102	10D275	—	—	—
With LED, Cylindrical, 30mm, 6.6 ft. Cable			1.52"	—	—	1NO/1NC	XCSDMR5912	10D286	2NC	XCSDMR7912	10D288
With LED, Rectangular, 6.6 ft. Cable			3.46"	0.98"	0.52"	2NO/1NC	XCSDMP5012	10D282	1NO/2NC	XCSDMP7012	10D284
Metal Locking											
½" NPT Conduit	—	120VAC	8.07"	1.71"	2.01"	—	—	—	1NO/2NC	XCSLF3737333	14L750
½" NPT Conduit	—	120VAC	8.07"	1.71"	2.01"	2NC	XCSLF2727333	14L744	2NO/1NC	XCSLF3535333	14L746
½" NPT Conduit	—	24VAC/DC	8.07"	1.71"	2.01"	2NC	XCSLF2727313	14L743	2NO/1NC	XCSLF3535313	14L745
½" NPT Conduit	—	24VAC/DC	8.07"	1.71"	2.01"	1NO/2NC	XCSLF3737313	14L749	3NC	XCSLF3838313	14L753
Metal Locking with Power											
½" NPT Conduit	—	24VAC/DC	8.07"	1.71"	2.01"	2NO/1NC	XCSLF3535513	14L747	1NO/2NC	XCSLF3737513	14L751
½" NPT Conduit	—	120VAC	8.07"	1.71"	2.01"	2NO/1NC	XCSLF3535533	14L748	1NO/2NC	XCSLF3737533	14L752
Plastic Locking											
½" NPT Conduit	—	24VAC/DC	8.07"	1.71"	2.01"	2NC	XCSLE2727313	14L755	—	—	—
½" NPT Conduit	—	120VAC	8.07"	1.71"	2.01"	2NC	XCSLE2727333	14L756	—	—	—
Plastic Locking with Power											
½" NPT Conduit	—	24VAC/DC	8.07"	1.71"	2.01"	1NO/1NC	XCSLE2525513	14L754	—	—	—
Rotary Shaft											
½" NPT Conduit	1.18"	—	2.36"	1.18"	4.61"	1NO/1NC	XCSPR553	10D257	—	—	—
Straight Lever Operated											
½" NPT Conduit	2.95"	—	1.18"	1.18"	7.06"	1NO/1NC	XCSPL553	10D253	—	—	—
½" NPT Conduit	2.85"	—	1.18"	1.18"	7.06"	2NC	XCSPL753	10D255	—	—	—

Honeywell

MICRO SWITCH™ Safety Interlocked Switches

- 10A
- NEMA 12,13
- Silver contacts

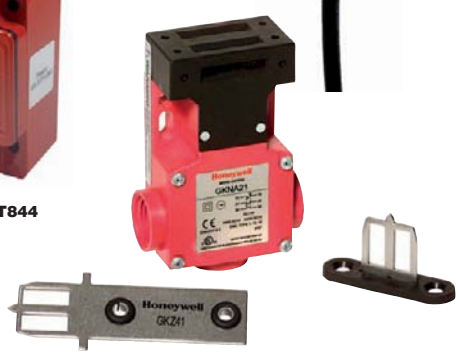
Description	Mfr. Model	Item No.	
Safety Interlock Switches, ½" NPT			
Front and Top Open, 90° Key, 1NC/1NO	GKBA1L7	**11T849**	*
Front and Top Open, 90° Key, 1NC/1NO	GKBA3L7	**11T854**	
Front and Top Open, 90° Key, 2NC/2NO	GKBA14L7	**11T846**	
Front and Top Open, 90° Key, 4NC	GKBA10L7	**11T844**	
Front and Top Open, No Key, 1NC/1NO	GKBA1LX	**11T850**	*
Front and Top Open, No Key, 2NC	GKBA6LX	**11T855**	
Front and Top Open, Strt. Key, 1NC/1NO	GKBA3L6	**11T853**	
Front and Top Open, Strt. Key, 2NC/2NO	GKBA14L6	**11T845**	
Front and Top Open, Strt. Key, 3NC/1NO	GKBA16L6	**11T847**	
Multi-entry Key Operated (Strt., 90°, or Spring Key), 2NC/1NO	GKNA21	**11T872**	
Multi-entry Key Operated (Strt., 90°, or Spring Key), 3NC	GKNA30	**11T873**	
Rotating Head, Front and Top Open, 90° or Strt. Key, 1NC/1NO	GKEA01L	**11T869**	*
Rotating Head, Front and Top Open, 90° or Strt. Key, 1NC/1NO	GKEA03L	**11T870**	
Rotating Head, Front and Top Open, 90° or Strt. Key, 2NC	GKEA06L	**11T871**	
Safety Interlock Switches, Prewired			
Strt. or 90° Key, Bottom Exit 1m Cable, 1NC/1NO	GKMB13	**11T905**	
Strt. or 90° Key, Bottom Exit 1m Cable, 2NC	GKMB16	**11T906**	
Strt. or 90° Key, Bottom Exit 2m Cable, 1NC/1NO	GKMB23	**11T909**	
Strt. or 90° Key, Bottom Exit 3m Cable, 1NC/1NO	GKMB33	**11T910**	
Strt. or 90° Key, Bottom Exit M12 Connector, 1NC/1NO	GKMD03	**11T916**	
Strt. or 90° Key, Side Exit 3m Cable, 1NC/1NO	GKMA33	**11T903**	

Item	Mfr. Model	Item No.
Accessories For GK and GKL/GKR Series		
Straight Actuating Key	GKZ56	**11T892**
Right Angle Actuating Key	GKZ57	**11T893**
Locking Slider Bolt with Actuating Key, 90°	GKZ72	**11T897**
Locking Slider Bolt with Actuating Key, 0°	GKZ71	**11T896**
Left/Right Spring-Loaded Actuating Key	GKZ59	**11T895**
Accessories For GKE and GKM Series		
Straight Actuating Key	GKZ51M	**11X201**
Right Angle Actuating Key	GKZ52M	**11X202**
Accessories For GKN Series		
Straight Actuating Key	GKZ41	**11T874**
Right Angle Actuating Key	GKZ42	**11T875**
Multidirectional Actuating Key	GKZ45	**11T878**
Funnel Actuating Key	GKZF1	**11T879**

**** Snap-action contacts.***


No. 11T905


No. 11T844


No. 11T872

EATON

Safety Interlock Switches

- NEMA 1, 12, and 13
- Contact rating: 6A at 24V, 4A at 400V
- Metal contact material
- DC rating 300mA at 24V
- IP65

Movement	Description/ Special Features	Solenoid Voltage	Contact Form	Actuator Length	H	W	D	Mfr. Model	Item No.
Lateral	Miniature Din	—	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-ZB	**45MZ38**
Lateral	Locking by Solenoid, Power to Unlock	120VAC	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-120AFT-ZBZ-X	**45MZ39**
Lateral	Locking by Solenoid, Power to Unlock	240VAC	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-230AFT-ZBZ-X	**45MZ41**
Lateral	Locking by Solenoid, Power to Unlock	24VDC	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-24DFT-ZBZ-X	**45MZ42**
Lateral	Locking by Solenoid, Power to Lock	120VAC	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-120AMT-ZBZ-X	**45MZ40**
Lateral	Locking by Solenoid, Power to Lock	24VDC	1NO/1NC	1.42"	5.37"	2.36"	1.21"	LS-S11-24DMT-ZBZ-X	**45MZ43**
Lateral	Din Door Switch	—	1NO/1NC	1.42"	3.78"	1.18"	1.31"	LS4-S11-1-I-ZB	**45MZ48**
Rotation	Flap Door Switch	—	2NC	2.83"	3.15"	1.18"	1.26"	LSR-S02-1-I-TKG	**45MZ44**
Rotation	Flap Door Switch	—	1NO/1NC	2.83"	3.15"	1.18"	1.26"	LSR-S11-1-I-TKG	**45MZ46**
Rotation	Hinge Operated Switch	—	2NC	2.32"	3.15"	1.18"	1.26"	LSR-S02-1-I-TS	**45MZ45**
Rotation	Hinge Operated Switch	—	1NO/1NC	2.32"	3.15"	1.18"	1.26"	LSR-S11-1-I-TS	**45MZ47**


No. 45MZ38

No. 45MZ44

OMRON

Force-Guided Relays and Sockets

Compact relays with force-guided contacts help avoid hazardous machine status when used as part of an interlock circuit. Designed for use where it is necessary to monitor relay contacts for safety purposes and to support the CE marking of machinery. Reinforced insulation between inputs and outputs. Terminal arrangement simplifies PCB pattern. Conform to EN standards (EN50205 Class A, approved by VDE). UL Recognized and CSA Certified.

Contact Config.	Contact Load Rating	For Use With	Input Voltage	Response Time	H	W	Mfr. Model	Item No.
Force Guided Relays								
2NO/2NC	6.0A	2LCL6 or 2LCL7 Socket	24VDC	10 msec	0.94"	1.57"	11051-0002	**2LCL1**
3NO/1NC	6.0A	2LCL6 or 2LCL7 Socket	24VDC	10 msec	0.94"	1.57"	11051-0001	**2LCL2**
3NO/3NC	6.0A	2LCL8 or 2LCL9 Socket	24VDC	10 msec	0.94"	2.36"	11051-0005	**2LCL3**
5NO/1NC	6.0A	2LCL8 or 2LCL9 Socket	24VDC	10 msec	0.94"	2.36"	11051-0003	**2LCL5**

No. of Pins	Mounting	Terminals	Voltage	Contact Rating	L	W	D	Mfr. Model	Item No.
Force Guided Relay Sockets									
10	DIN Rail	Screw	24VDC	6A	3.54"	0.88"	2.38"	11059-0012	**2LCL6**
14	DIN Rail	Screw	24VDC	6A	3.54"	1.18"	2.38"	11059-0009	**2LCL8**
Force Guided, LED Relay Sockets									
10	DIN Rail	Screw	24VDC	6A	3.54"	0.88"	2.38"	11059-0010	**2LCL7**
14	DIN Rail	Screw	24VDC	6A	3.54"	1.18"	2.38"	11059-0011	**2LCL9**


No. 2LCL1


No. 2LCL6



Safety Mat



Mounting Trim Kit

Safety Contact Mats

- 8.5 lb. per sq. in. minimum activation force
- Can handle forklift traffic up to 270 lb. per sq. in.

Controller and pressure-sensitive mat sold separately. Mats have a PVC cover on 24-ga. galvanized steel conductive plates.

Mounting Trim Kits—2-part perimeter and joining trim simplifies installation and provides a custom appearance. Secures mats to the floor to meet safety regulations and can be used to join multiple mats.

Controllers—Designed with LED indicators and selectable automatic Start or Start/Restart Interlock.Up to 12 mats may be connected in a series to a single zone. No. 2LCT7 has removable terminal blocks. Steel units are rated NEMA 4, 12. Nos. 2LCU4 and 2LCU6 add Start Interlock mode and feature zone status indicators, full-featured diagnostics, 2-digit numeric display, DIP switch mode selection, equipment monitoring, selectable auxiliary output mode, and remote access to reset functions. UL Listed and CE Certified.

W	L	IP Rating	Std.	SAFETY SWITCH MAT Mfr. Model	SAFETY SWITCH MAT Item No.	MOUNTING TRIM KIT Mfr. Model	MOUNTING TRIM KIT Item No.
Safety Mat System							
12"	60"	67	CE,UL	UMA12601	**55JA34**	43782-1260	**10N115**
18"	72"	67	CE,UL	UMA18721	**55JA35**	43782-1872	**10N122**
24"	12"	67	CE,UL	UMA24121	**55JA36**	43782-2412	**10N107**
	18"	67	CE,UL	UMA24181	**55JA37**	43782-2418	**10N108**
	24"	67	CE,UL	UMA24241	**55JA38**	43782-2424	**10N109**
	60"	67	CE,UL	—	—	43782-2460	**10N120**
	72"	67	CE,UL	UMA24721	**55JA39**	—	—
30"	18"	67	CE,UL	UMA30181	**55JA40**	—	—
	24"	67	CE,UL	UMA30241	**55JA41**	—	—
	30"	67	CE,UL	UMA30301	**55JA42**	43782-3030	**10N112**
	72"	67	CE,UL	—	—	43782-3072	**10N130**
36"	12"	67	CE,UL	UMA36121	**55JA43**	43782-3612	**10N110**
	18"	67	CE,UL	UMA36181	**55JA44**	—	—
	24"	67	CE,UL	UMA36241	**55JA45**	43782-3624	**10N113**
	30"	67	CE,UL	UMA36301	**55JA46**	—	—
	36"	67	CE,UL	UMA36361	**55JA47**	43782-3636	**10N116**
	54"	67	CE,UL	UMA36541	**55JA48**	43782-3654	**10N124**
	60"	67	CE,UL	UMA36601	**55JA49**	43782-3660	**10N127**
	72"	67	CE,UL	UMA36721	**55JA50**	43782-3672	**10N132**
42"	24"	67	CE,UL	UMA42241	**55JA51**	43782-4224	**10N114**
	36"	67	CE,UL	UMA42361	**55JA52**	—	—
	54"	67	CE,UL	UMA42541	**55JA53**	43782-4254	**10N128**
	60"	67	CE,UL	UMA42601	**55JA54**	—	—
48"	24"	67	CE,UL	UMA48241	**55JA55**	—	—
	30"	67	CE,UL	UMA48301	**55JA56**	—	—
	36"	67	CE,UL	UMA48361	**55JA57**	—	—
	48"	67	CE,UL	—	—	43782-4848	**10N129**
	66"	67	CE,UL	UMA48661	**55JA58**	43782-4866	**10N133**
	72"	67	CE,UL	UMA48721	**55JA59**	—	—
Safety Mat Cableset							
Cable Length 10m		67	UL Listed 2661	—	—	19251-0100	**24M989**

Input Power	Safety Output Config.	Max. Switching Voltage	Encl. Material	No. of Inputs	Item No.
1 Detection Zones, 35mm DIN Rail Mounting, IP Rating 20					
24VDC	2NO/2NC	240VAC/24VDC	Polycarbonate	1	**2LCT7**
24VDC	Not Specified	240VAC/24VDC	—	4	**55JA33**
6 Detection Zones, Wall Mounting, IP Rating 65					
24VDC	2NO/1NC	240VAC/24VDC	14 Ga. Steel	6	**2LCU4**
100 to 240VAC	2NO/1NC	240VAC/24VDC	14 Ga. Steel	6	**2LCU6**

Light Curtains

ifm efector

These Safety Light Curtains consist of an emitter and receiver pair that create a multi-beam barrier of infrared light in front of, or around, unsafe work areas. If any of the beams are blocked by personnel, the light curtain sends a signal to the machine to place it in a safe state. They meet the highest achievable safety level requirements: Type 4, SIL 3, and PLe. Available in both finger (14 mm) and hand (30 mm) resolutions and are simple to wire and install.

Protected Height	MAX. SENSING DISTANCE 19.7 ft. Beam Spacing	19.7 ft. Mfr. Model	19.7 ft. Item No.	39.4 ft. Beam Spacing	39.4 ft. Mfr. Model	39.4 ft. Item No.
Light Curtains						
11.0"	14mm	OY001S	**52RR12**	30mm	OY041S	**52RR22**
11.8"	14mm	OY002S	**52RR13**	30mm	OY042S	**52RR23**
19.7"	14mm	OY003S	**52RR14**	30mm	OY043S	**52RR24**
24.1"	14mm	OY004S	**52RR15**	30mm	OY044S	**52RR25**
29.9"	14mm	OY005S	**52RR16**	30mm	OY045S	**52RR26**
36.2"	14mm	OY006S	**52RR17**	30mm	OY046S	**52RR27**
41.2"	14mm	OY007S	**52RR18**	30mm	OY047S	**52RR28**
47.2"	14mm	OY008S	**52RR19**	30mm	OY048S	**52RR29**
53.5"	14mm	OY009S	**52RR20**	30mm	OY049S	**52RR30**
59.8"	14mm	OY010S	**52RR21**	30mm	OY050S	**52RR31**
Controllers						
Rotatable Bracket	—	—	—	—	EY3005	**52RR33**
Safety Monitoring Relay	—	—	—	—	G1501S	**52RR32**

Perimeter Light Curtain Guarding Systems

- Safety yellow aluminum housing
- Built-in control monitoring
- NEMA 4

Self-contained systems consist of an infrared transmitter and receiver which contain the control circuitry—no separate control box is required. Selectable Automatic Start and Start/Restart Interlock modes. Solid-state PNP outputs. Visual alignment indicators aid installation. Light curtains: UL Listed, CE Certified, CSA Certified. All curtains except No. 2LBZ9 meet IEC Type 4 ESPE; TUV. Cordsets: UL Listed, CE Certified, CSA Certified. Resource modules: UL Listed, CE Certified.



No. 10N160



Long-Range Safety Light Curtain No. 2LBZ9

Protected Height	Item No.
Light Curtains, 65 ft. Range, 24VDC, 500mA Rating	
17.3"	**10N160**
23.6"	**10N161**
29.9"	**10N163**
36.2"	**10N165**
40.9"	**10N166**
47.2"	**10N167**
55.1"	**10N168**
59.8"	**10N169**
Long-Range Safety Light Curtain, 230 ft. Range, 24VDC, 625 mA Rating	
Variable	**2LBZ9**

Cable Length	TRANSMITTER Item No.	RECEIVER Item No.
Cordsets, M12 Connector, 20VDC, For Use With No. 2LBZ9		
10m	**2LCA4**	**2LCA1**
15m	—	**2LCA2**
30m	**2LCA6**	—
Cordsets, M12 Connector, 20VDC, For Use With Nos. 10N160 to 10N169		
10m	**10N098**	**10N097**
15m	**10N103**	**10N102**
30m	**10N106**	**10N105**

Input Power	Safety Outputs	Auxiliary Output	Environmental Protection	Mounting	W	H	D	Item No.
Relay Output Resource Modules								
24VDC	1 NO, 1 NO/NC	—	IP20	35mm DIN Rail	22.5mm	75mm	110.0mm	**2LCA7**
100 to 240VAC	2 NO, 1 NC	2 NO/NC	IP65	Chassis	166.0mm	283mm	70.0mm	**2LCA9**



No. 5FZE7

Rotating Mirror Beacons

Schneider Electric

- 20 flashes per minute
- 100,000-hr. lamp life
- Dome lens design
- Temp. range: 14° to 122°F
- IP23 ABS housing with CR polychloroprene rubber gaskets

Provide long-distance, high visibility for machines and industrial vehicles. LED lamps for long life. Prewired for easy installation; screw mount. UL Listed, CSA and CE Certified.

Description	Item No.
Accessories	
Mounting Tube and Base For 106mm Rotating Mirror Beacons	**5FZG3**
L-Shape Mounting Bracket For 84mm, 106mm Rotating Mirror Beacons	**5FZG4**
Reflecting Prism, For Use With Mfr. No. XVR08	**30N623**
Reflecting Prism, For Use With Mfr. No. XVR10	**30N624**
Reflecting Prism, For Use With Mfr. No. XVR12, XVR13	**30N625**
Warning Light Rubber Base, For Use With Mfr. No. XVR08	**30N621**
Warning Light Rubber Base, For Use With Mfr. No. XVR10	**30N622**

Power Source	Mfr. Model	RED Item No.	ORANGE Item No.	GREEN Item No.	BLUE Item No.
84mm Diameter					
12VAC/DC	XVR08J	**5FZE7**	—	**5FZE9**	**5FZF0**
24VAC/DC	XVR08B	**5FZF1**	**5FZF2**	**5FZF3**	**5FZF4**
106mm Diameter					
12VAC/DC	XVR10J	**5FZF5**	—	—	**5FZF8**
24VAC/DC	XVR10B	**5FZF9**	**5FZG0**	**5FZG1**	**5FZG2**
120mm Diameter					
12VAC/DC	XVR12J	**30N605**	**30N607**	**30N603**	**30N609**
24VAC/DC	XVR12B	**30N596**	**30N598**	**30N594**	**30N601**
120mm Diameter, Includes Buzzer					
12VAC/DC	XVR12J S	**30N606**	**30N608**	**30N604**	**30N610**
24VAC/DC	XVR12B S	**30N597**	**30N599**	**30N595**	**30N602**
130mm Diameter					
12VDC	XVR13J	**30N617**	**30N618**	—	—
24VAC/DC	XVR13B	**30N611**	**30N613**	—	—
130mm Diameter, Includes Prewired Cable					
24VAC/DC	XVR13B L	**30N612**	**30N614**	—	—
120VAC	XVR13G L	**30N615**	**30N616**	—	—
230VAC	XVR13M L	**30N619**	**30N620**	—	—

50mm and 56mm Dia. Tower and 86mm Dia. Warning Lights

Dayton

- IP65 polycarbonate housing
- Lead wire type

56mm dia. tower lights feature steady and flashing stackable LED modular components. Available pole with surface, or wall mounting bracket, or direct mounting. Optional modular buzzer kits. 86mm dia. warning lights feature high-intensity LED lights, selectable steady/flashing/rotating modes. Available pole mounting or wall-mount bracket. UL Listed and CSA Certified.

Voltage	Watts	AMBER Item No.	BLUE Item No.	RED Item No.
Tower Light Module Flashing, 50mm Diameter				
24VAC/DC	1.50W	**30XT69**	**30XT70**	—
120VAC	0.80W	—	—	**30XT72**
240VAC	0.80W	**30XT63**	—	—
240VAC	0.70W	**30XT55**	—	—

Mounting	Voltage	RED Item No.	RED, GREEN Item No.	RED, YELLOW, GREEN Item No.	RED, YELLOW, GREEN, BLUE Item No.	RED, YELLOW, GREEN, BLUE, CLEAR Item No.	RED, YELLOW Item No.
Tower Light LED Assembly, Steady, Flashing, 20" Cord Length, 56mm Diameter							
Support Tube	24VAC/DC	**26ZT20**	**26ZT21**	**26ZT23**	**26ZT24**	**26ZT25**	—
Support Tube	90 to 240VAC	**26ZT26**	**26ZT27**	**26ZT29**	**26ZT30**	**26ZT31**	—
Direct	24VAC/DC	**26ZT33**	**26ZT34**	**26ZT36**	**26ZT37**	—	—
Direct	90 to 240VAC	**26ZT39**	**26ZT40**	**26ZT42**	**26ZT43**	**26ZT44**	**26ZT41**

Power Source	RED Item No.	YELLOW Item No.	GREEN Item No.	CLEAR Item No.	BLUE Item No.
Warning Light, Stud Mounting, 86mm Diameter					
12-24	**26ZT50**	**26ZT51**	**26ZT52**	**26ZT54**	—
90-240	**26ZT55**	—	**26ZT57**	**26ZT59**	**26ZT58**
Warning Light, Includes Buzzer, Stud Mounting, 86mm Diameter					
12-24	—	—	**26ZT62**	**26ZT64**	—
90-240	**26ZT65**	—	**26ZT67**	**26ZT69**	**26ZT68**



No. 30XT55



No. 26ZT21



No. 26ZT50

Description	For Use With	Item No.
Tower Light Accessories		
Tower Light Sounder Tier, 100dB	26ZT20-26ZT24, 26ZT26-30, 26ZT33-37, 26ZT39-43	**26ZT19**
Surface Mount, luminum Base, luminum, 10¼" H	26ZT20-26ZT31	**26ZT17**
Wall Mount, Steel Base, luminum, 9½" H	26ZT20-26ZT31	**26ZT16**
Wall Mount Bracket, Steel, 3" H	26ZT20-26ZT44	**26ZT32**
Terminal Holder, White, Nylon, 2 13/64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT48**
Terminal Holder, White, Nylon, 2 13/64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT49**
Terminal Holder, Black, Nylon, 2 13/64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT50**
Base Unit, Black, Nylon, 4 13/32" H	30XT48, 30XT49, 30XT50	**30XT51**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT46**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT47**

Modular Tower Lights, 40mm and 70mm Diameter

EATON

- IP66 polycarbonate housing
- For outdoor or indoor use

Indicate machine states with high-performance LEDs that are designed to be used in adverse conditions. UL Listed, CSA and CE Certified.

Description	Voltage	Mfr. Model	RED Item No.	AMBER Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.	WHITE Item No.
SL4 Series, 40mm Diameter								
Flashing Light	24VAC/DC	SL4-BL24	**20PZ10**	**20PZ07**	**20PZ12**	**20PZ09**	**20PZ08**	**20PZ11**
	120VAC	SL4-BL120	**20PZ04**	**20PZ01**	**20PZ06**	**20PZ03**	**20PZ02**	**20PZ05**
Steady Light	24VAC/DC	SL4-L24	**20PZ46**	**20PZ43**	**20PZ48**	**20PZ45**	**20PZ44**	**20PZ47**
	120VAC	SL4-L120	**20PZ39**	**20PZ36**	**20PZ41**	**20PZ38**	**20PZ37**	**20PZ40**
Strobe Light	24VAC/DC	SL4-FL24	—	**20PZ19**	**20PZ29**	**20PZ23**	**20PZ21**	**20PZ27**
	120VAC	SL4-FL120	**20PZ16**	**20PZ13**	**20PZ18**	**20PZ15**	**20PZ14**	**20PZ17**
Strobe Light, Multiple Sequences	24VAC/DC	SL4-FL24-M	**20PZ26**	**20PZ20**	**20PZ30**	**20PZ24**	**20PZ22**	**20PZ28**
SL7 Series, 70mm Diameter								
Flashing Light	24VAC/DC	SL7-BL24	**20PZ81**	**20PZ78**	**20PZ83**	**20PZ80**	**20PZ79**	**20PZ82**
	120VAC	SL7-BL120	**20PZ75**	**20PZ72**	**20PZ77**	**20PZ74**	**20PZ73**	**20PZ76**
Steady Light	24VAC/DC	SL7-L24	**20RA23**	**20RA20**	**20RA25**	**20RA22**	**20RA21**	**20RA24**
	120VAC	SL7-L120	**20RA16**	**20RA13**	**20RA18**	**20RA15**	**20RA14**	**20RA17**
Strobe Light	24VAC/DC	SL7-FL24	**20RA05**	**20RA02**	**20RA07**	**20RA04**	**20RA03**	**20RA06**
	120VAC	SL7-FL120	—	**20PZ95**	**20RA01**	**20PZ97**	**20PZ96**	**20PZ99**
	120VAC	SL7-FL120	**20PZ98**	—	—	—	—	—



No. 20PZ72



No. 20PY94

Dia.	Voltage	Mfr. Model	RED, GREEN Item No.	RED, YELLOW, GREEN Item No.
Tower Light Assemblies				
40mm	24VAC/DC	SL4-100-L-24LED	**20PY94**	—
40mm	24VAC/DC	SL4-100-L-RAG-24LED	—	**20PY95**
70mm	24VAC/DC	SL7-100-L-24LED	**20PZ63**	—
70mm	24VAC/DC	SL7-100-L-RAG-24LED	—	**20PZ64**

Description	Mfr. Model	Item No.
Audible Sounders		
For Use With SL4 Tower Lights		
120VAC	SL4-AP120	**20PY96**
24VAC/DC	SL4-AP24	**20PY98**
For Use With SL7 Tower Lights		
120VAC	SL7-AP120	**20PZ65**
120VAC, External Actuation	SL7-AP120-E	**20PZ66**
120VAC, Multi-Tone	SL7-AP120-M	**20PZ67**
24VAC/DC	SL7-AP24	**20PZ68**
24VAC/DC, External Actuation	SL7-AP24-E	**20PZ69**
24VAC/DC, Multi-Tone	SL7-AP24-M	**20PZ70**
Mounting Bases		
For Use With SL4 Tower Lights		
Rapid Mount with Aluminum Pole, Base Cover, 6 3/16"	SL4-FMS-100	**20PZ31**
Rapid Mount with Aluminum Pole, 12 3/32"	SL4-FMS-250	**20PZ32**
Rapid Mount with Aluminum Pole, 18"	SL4-FMS-400	**20PZ33**
100mm Aluminum Tube Base Unit, Plastic Belt	SL4-PIB-100	**20PZ49**
250mm Aluminum Tube Base Unit, Plastic Belt	SL4-PIB-250	**20PZ50**
400mm Aluminum Tube Base Unit Plastic Belt	SL4-PIB-400	**20PZ51**
2-Side Base, Ext Fix Holes, Vertical Mount	SL4-PIB-D	**20PZ52**
1-Side Base, Bracket, Vertical Mount	SL4-PIB-FW	**20PZ53**
Aluminum Tube Base Unit, Fixing Holes	SL4-PIB-IMH	**20PZ54**
Aluminum Tube Base Unit, Fixing Screws	SL4-PIB-IMS	**20PZ55**
100mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-100	**20PZ56**
250mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-250	**20PZ57**
400mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-400	**20PZ58**
Aluminum Tube Base Unit, Fixing Holes Push-In	SL4-PII-EMH	**20PZ59**
For Use With SL4, SL7 Tower Lights		
Plastic Bracket, Vertical Mount	SL7/4-FW	**20PZ61**
For Use With SL7 Tower Lights		
Metal Bracket, Vertical Mount	SL7/4-FW-T	**20PZ62**
100mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-100	**20PZ84**
250mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-250	**20PZ85**
400mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-400	**20PZ86**
2-Side Base, Ext Fix Holes, Vertical Mount	SL7-CB-D	**20PZ87**
Base, Ext Fix Holes, Horizontal Mount	SL7-CB-EMH	**20PZ88**
1-Side Base, Bracket, Vertical Mount	SL7-CB-FW	**20PZ89**
Base, Int Fix Hole, Horizontal Mount	SL7-CB-IMH	**20PZ90**
Base, Built In Fix Screws, Horizontal Mount	SL7-CB-IMS	**20PZ91**
100mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-100	**20PZ92**
250mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-250	**20PZ93**
400mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-400	**20PZ94**
100mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-100	**20RA08**
250mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-250	**20RA09**
400mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-400	**20RA10**
Base Adapter For SW-DT	SL7-SWD	**20RA26**
Accessories		
For Use With SL4, SL7 Tower Lights		
Lamp Mounting and Removal Tool	SL7/4-BET	**20PZ60**



Tower Lights, 40, 60, and 100mm Diameter

- IP54 polybutylene housing
- For outdoor or indoor use

Towers have up to 5 super-bright LEDs for optimum luminosity. Assembled and prewired. For long-distance indication of the operating states or sequences of a machine. 1 9/16" lights are primarily used in the food-processing and medical sectors. 2 3/8" lights are used in semiconductor factories or on conveyor belts. UL Listed, CSA and CE Certified.

Mode	Voltage	Mfr. Model	RED Item No.	RED, ORANGE Item No.	RED, ORANGE, GREEN Item No.	RED, ORANGE, GREEN, BLUE Item No.	RED, ORANGE, GREEN, BLUE, CLEAR Item No.
40mm Diameter, Base Mounting							
Steady	24VAC/DC	XVC4B	**5FTK6**	**5FTK7**	**5FTK8**	**5FTK9**	**5FTL0**
40mm Diameter, Support Tube Mounting							
Steady	24VAC/DC	XVC4B	**5FTJ6**	**5FTJ7**	**5FTJ8**	**5FTJ9**	**5FTK0**
Steady	100 to 240VAC	XVC4M	**34D586**	**34D589**	**34D593**	**34D607**	**34D608**
Steady, Flashing with Buzzer	24VAC/DC	XVC4B	**5FTK1**	**5FTK2**	**5FTK3**	**5FTK4**	**5FTK5**
Steady, Flashing with Buzzer	100 to 240VAC	XVC4M	**34D594**	**34D598**	**34D604**	**34D609**	**34D614**
60mm Diameter, Base Mounting							
Steady	24VAC/DC	XVC6B	—	**5FTN4**	**5FTN5**	—	**5FTN7**
Steady	100 to 240VAC	XVC6M	**34D585**	**34D587**	**34D592**	**34D599**	**34D611**
Steady, Flashing with Buzzer	24VAC/DC	XVC6B	**5FTN8**	**5FTN9**	**5FTP0**	**5FTP1**	**5FTP2**
Steady, Flashing with Buzzer	100 to 240VAC	XVC6M	**34D590**	**34D596**	**34D601**	**34D606**	**34D613**
60mm Diameter, Support Tube Mounting							
Steady	24VAC/DC	XVC6B	—	**5FTL4**	**5FTL5**	**5FTL6**	**5FTL7**
Steady	100 to 240VAC	XVC6M	**34D588**	**34D591**	**34D597**	**34D603**	**34D612**
Steady, Flashing with Buzzer	24VAC/DC	XVC6B	—	**5FTL9**	**5FTN0**	**5FTN1**	**5FTN2**
Steady, Flashing with Buzzer	100 to 240VAC	XVC6M	**34D595**	**34D602**	**34D605**	**34D610**	**34D615**
100mm Diameter, Base Mounting							
Steady, Flashing	100 to 240VAC	XVC1M	**34D616**	**34D617**	**34D619**	**34D621**	**34D623**
Steady, Flashing with Buzzer	100 to 240VAC	XVC1M	**34D618**	**34D620**	**34D622**	**34D624**	**34D625**

Description	Item No.
Accessories	
Die-Cast Mounting Base For Pole-Mount Style 40mm Tower Light	**5FTL1**
Mounting Base For Pole-Mount Style 40mm Tower Light	**5FTL2**
Die-Cast Mounting Base For Pole-Mount Style 60mm Tower Light	**5FTP3**
Stamped Metal Plate For Base-Mount Style 60mm Tower Light	**5FTP4**



70mm Nonstackable Illuminated Beacon w/Base
No. 6HM55



70mm Stackable Lens Unit
No. 6HM33



60mm Audible Sounder
No. 30EF30



Tower Body
No. 30EF22



Side Entry for Cable Only
No. 6HM29



Rear Conduit Adapter
No. 6HM23

Illuminated Beacons, 60 and 70mm Diameter

Highly visible 360° beacons provide instant communication within work groups and across factory floors, enabling factory personnel to monitor and control production quality in large automated areas. NEMA 1, 4X, 12, and IP65. For indoor use only. UL Listed, CE and CSA Certified.

Description	Voltage	Mfr. Model	RED Item No.	AMBER/ ORANGE Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.	CLEAR/WHITE Item No.
60mm Stackable Lens Units without Base or Cover								
Steady w/Lamp	24VAC/DC	XVUC2	**30EF24**	**30EF25**	—	**30EF23**	**30EF26**	**30EF27**
Flashing, Steady, Blinking, Rotating, w/Multi-Color Lamp	24VAC/DC	XVUC29	**30EF28**	**30EF28**	**30EF28**	**30EF28**	**30EF28**	**30EF28**
70mm Nonstackable Illuminated Beacons with Base								
Strobe w/Lamp	24VAC/DC	XVBL8B	**6KX89**	**5GAD9**	**5GAE2**	**5GAD8**	**5GAE0**	**5GAE1**
Strobe w/Lamp	120VAC	XVBL8G	**6KX95**	**6KX62**	**6KX98**	—	**6KX96**	**6KX97**
Steady w/o Lamp	250VAC/DC	XVBL3	**6HM55**	**6HM56**	**6HM59**	**6HM54**	**6HM57**	**6HM58**
Flashing w/o Lamp	24VAC/24 to 48VDC	XVBL4B	**6KX77**	**6KX78**	**6KX81**	**6KX76**	**6KX79**	—
Flashing w/o Lamp	48 to 230VAC	XVBL4M	—	—	**6KX87**	**6KX82**	—	**6KX86**
70mm Stackable Lens Units without Base or Cover								
Steady w/Lamp	240VAC	XVBC3	**6HM32**	**6HM33**	**6HM36**	**6HM31**	**6HM34**	**6HM35**
Flashing w/o Lamp	48VAC/DC	XVBC4B	**6HM38**	—	**6HM42**	**6HM37**	**6HM40**	—
Flashing w/o Lamp	240VAC	XVBC4M	**6HM44**	**6HM45**	—	—	**6HM46**	—
LED Lamps for 70mm Beacons								
Steady	24VAC/DC	DL1BDB	**6HJ97**	—	**6HJ99**	—	—	—
Steady	120VAC	DL1BDG	**6HK03**	—	**6HK05**	**6HK02**	**6HK04**	**6HK01**
Flashing	24VAC/DC	DL1BKB	—	—	—	—	**3XB59**	**3XB56**
Flashing	120VAC	DL1BKG	—	—	**3XB65**	—	—	—

Description	Mfr. Model	Item No.
Audible Sounders		
60mm, 24VAC/DC, 85dB, Black	XVUC9S	**30EF29**
60mm, 24VAC/DC, 85dB, Silver	XVUC9SQ	**30EF30**
70mm, 12 to 48VAC/DC, 90 dB Nonadjustable	XVBC9B	**6HM52**
70mm, 120 to 230VAC, 70-90 dB Adjustable	XVBC9M	**6HM53**
60mm Accessories		
Body Extender, Black	XVUC020	**30EF16**
Body Extender, Silver	XVUC020Q	**30EF17**
Tower Body, Black, 3 19/64" H, 24VAC/DC	XVUC21B	**30EF18**
Tower Body, Silver, 3 19/64" H, 24VAC/DC	XVUC21BQ	**30EF19**
Tower Body, Black, 5 57/64" H, 100-240VAC, NPN	XVUC21M	**30EF20**
Tower Body, Black, 5 57/64" H, 100-240VAC, PNP	XVUC21MP	**30EF21**
Tower Body, Silver, 5 57/64" H, 100-240VAC, PNP	XVUC21MQP	**30EF22**
Mounting Plate, Black	XVUZ01	**30EF31**
Mounting Plate, Silver	XVUZ01Q	**30EF32**
Fixing Plate, Black	XVUZ02	**30EF33**

Description	Mfr. Model	Item No.
Fixing Plate, Silver	XVUZ02Q	**30EF34**
Adjustment Pole, Black	XVUZ05	**30EF35**
70mm Accessories		
Side Entry for Cable Only	XVBC14	**6HM29**
Rear Conduit Adapter	XVBC00	**6HM23**
Stackable Base and Cover for Component Lenses	XVBC21	**6HM30**
Beacon Support Base, 2 3/4"H, Black Aluminum	XVBZ02	**1CNP2**

Watts	12VAC/DC Item No.	24VAC/DC Item No.	48VAC/DC Item No.	120VAC/DC Item No.	230VAC/DC Item No.
Incandescent Lamps for 50, 60, or 70mm, T6 Lamp Shape, LumaPro Brand					
5.0	—	**4VCW7**	—	—	—
7.0	**4VCX1**	**4VCW6**	**4VCW8**	**4VCW9**	**4VCX2**
10.0	**4VCX6**	**4VCX3**	**4VCX4**	**4VCX5**	**4VCX7**


No. 5JV43


No. 20RD69


No. 4A339


No. 1DU38


No. 4A334


No. 2A183

OMRON
INDUSTRIAL AUTOMATION

Telemecanique
Sensors

Photoelectric and Fiber Optic Sensors

Width	Height	Depth	Power Requirement	Foot-notes	Photoelectric Operating Mode	Output Circuit Type	Max. Load Current	Brand	RETROREFLECTIVE Max. Sensing Distance	RETROREFLECTIVE Item No.	DIFFUSE Max. Sensing Distance	DIFFUSE Item No.	THROUGH BEAM SET Max. Sensing Distance	THROUGH BEAM SET Item No.
Cylindrical Photoelectric Sensors														
18mm	18mm	—	24 to 240VAC/DC	—	Light On	Solid State Relay, SPST	200mA	Telemecanique	3.0m	**5JV46**	—	**—**	20.0m	**5JV44**
18mm	45mm	—	5 to 30VDC	4, 5	Selectable Light On/Dark On	NPN	100mA	Omron	—	**—**	100mm	**20RD60**	20.0m	**20RD59**
18mm	18mm	—	24 to 240VAC/DC	—	Dark On	Solid State Relay, SPST	200mA	Telemecanique	—	**—**	—	**—**	20.0m	**5JV43**
18mm	18mm	—	24 to 240VAC/DC	4	Dark On	Solid State Relay, SPST	200mA	Telemecanique	3.0m	**5JV45**	—	**—**	—	**—**
18mm	45mm	—	5 to 30VDC	—	Selectable Light On/Dark On	PNP	100mA	Omron	—	**—**	100mm	**20RD65**	100mm	**20RD63**
18mm	45mm	—	5 to 30VDC	—	Selectable Light On/Dark On	PNP	100mA	Omron	—	**—**	100mm	**20RD66**	100mm	**20RD64**
18mm	45mm	—	10 to 30VDC	—	Selectable Light On/Dark On	NPN	100mA	Omron	—	**—**	—	**—**	100mm	**20RD69**
18mm	45mm	—	5 to 30VDC	—	Selectable Light On/Dark On	NPN	100mA	Omron	—	**—**	100mm	**20RD70**	—	**—**
Fiber Optic														
6-Ft. Fiber Optic Sensor Cable								Omron	—	**—**	—	**4A339**	—	**4A340**
Rectangular Photoelectric Sensors														
10mm	30mm	20mm	12 to 24VDC	4	Selectable Light On/Dark On	NPN	100mA	Omron	500mm	**1DU39**	100mm	**1DU40**	15.0m	**1DU38**
10mm	30mm	20mm	12 to 24VDC	4	Selectable Light On/Dark On	PNP	100mA	Omron	100mm	**1DU44**	200mm	**1DU47**	15.0m	**1DU45**
23mm	20mm	50mm	10 to 30VDC	3,4	Selectable Light On/Dark On	NPN/PNP	100mA	Omron	—	**—**	700mm	**4A334**	30.0m	**6C770**
23mm	20mm	57mm	10 to 30VDC	3,4	Selectable Light On/Dark On	NPN/PNP	100mA	Omron	—	**—**	700mm	**6C769**	30.0m	**6C771**
23mm	20mm	50mm	10 to 30VDC	2,3,4	Selectable Light On/Dark On	NPN/PNP	100mA	Omron	3.0m	**4A335**	500mm	**2UUK9**	—	**—**
89mm	185mm	64mm	42 to 240VAC/24 to 240VDC	1,3,7,8,9	Selectable Light On/Dark On	DPDT	10A	Omron	10.0m	**2A183**	500mm	**2A184**	—	**—**

Footnotes: 1—Reflector included. 2—Polarized. 3—NEMA 4X. 4—Prewired with 6.5 ft. of cable. 5—NEMA 4. 6—On-delay, Off-delay, 1-shot 0.1-5 seconds. 7—Conduit connection. 8—Opaque objects only. 9—Sensitivity adjustment.

Telemecanique
Sensors

Osisense™ Photoelectric Sensors

- LED status indicator
- NEMA rated 4X
- Smaller, compact body saves machine space

Multimode sensor adapts to numerous sensing applications with the touch of a button. M12 and Mini-connector cables are sold separately at Grainger.com®. UL Listed; CSA and CE Certified.


No. 32J342


No. 32J334


No. 4AJ36

Sensing Method	Circuit Type	Max. Sensing Distance	Power Requirement	Max. Load Current	Mfr. Model	CONNECTION TYPE Electrical Connection	Item No.	Electrical Connection	Item No.
Cylindrical, 18mm Diameter									
Diffuse	NPN	800mm	12 to 24VDC	100mA	XUB5ANAN	2m Cable	**32J330**	4-Pin M12 Male Connector	**32J338**
	NPN, NC	800mm	12 to 24VDC	100mA	XUB5ANBN	2m Cable	**32J331**	4-Pin M12 Male Connector	**32J339**
	PNP	800mm	12 to 24VDC	100mA	XUB5APAN	2m Cable	**32J332**	4-Pin M12 Male Connector	**32J340**
	PNP, NC	800mm	12 to 24VDC	100mA	XUB5APBN	2m Cable	**32J333**	4-Pin M12 Male Connector	**32J341**
Retroreflective	NPN	3.0m	12 to 24VDC	100mA	XUB9ANAN	2m Cable	**32J326**	4-Pin M12 Male Connector	**32J334**
	NPN, NC	3.0m	12 to 24VDC	100mA	XUB9ANBN	2m Cable	**32J327**	4-Pin M12 Male Connector	**32J335**
	PNP	3.0m	12 to 24VDC	100mA	XUB9APAN	2m Cable	**32J328**	4-Pin M12 Male Connector	**32J336**
	PNP, NC	3.0m	12 to 24VDC	100mA	XUB9APBN	—	**—**	4-Pin M12 Male Connector	**32J337**
Rectangular									
Diffuse	PNP, NO/NC	800mm	12 to 24VDC	100mA	XUM5APCN	2m Cable	**32J345**	4-Pin M8 Male Connector	**32J351**
Multimode	NPN/PNP, NO/NC	60.0m	12 to 24VDC	100mA	XUX0AKSA	Screw Terminal	**4AJ29**	4-Pin M12 Male Connector	**4AJ36**
	Relay, NO/NC	60.0m	24 to 240VAC/DC	3000mA	XUX0ARCT	Screw Terminal	**4AJ46**	—	**—**
Retroreflective	NPN, NO/NC	5.0m	12 to 24VDC	100mA	XUM9ANCN	2m Cable	**32J346**	—	**—**
	PNP, NO/NC	5.0m	12 to 24VDC	100mA	XUM9APCN	—	**—**	4-Pin M8 Male Connector	**32J353**
Through Beam Set	NPN, NO/NC	15.0m	12 to 24VDC	100mA	XUM2ANCN	2m Cable	**32J342**	4-Pin M8 Male Connector	**32J348**
	PNP, NO/NC	15.0m	12 to 24VDC	100mA	XUM2APCN	2m Cable	**32J343**	4-Pin M8 Male Connector	**32J349**
Through Beam Transmitter	Transmitter	60.0m	24 to 240VAC/DC	3000mA	XUX0ARCTT	Screw Terminal	**4AJ48**	—	**—**
	Transmitter	60.0m	12 to 24VDC	—	XUX0AKSAT	Screw Terminal	**4AJ32**	4-Pin M12 Male Connector	**4AJ41**



Comet Thru-Beam Receiver with Cable No. 2XCA8



SM Series Retro-Reflective, Background Rejection with Cable No. 2XDL4



Enhanced 50 Series Polarized Retro-Reflective with 4-Pin Micro No. 2XCK1

EATON

Photoelectric Sensors

COMET SERIES

- IP69K rating
- Solid-state AC/DC models rated for 300mA; DC-only models rated for 250mA NPN and 100mA PNP
- Light/dark operation
- Temp. range: -4° to 158°F thru-beam source Nos. 2UUT5, 2UUT6, 2XCA1, and 2XCA2, and -13° to 151°F for Nos. 2XCA3 to 2XCA7
- Temp. range: -40° to 158°F all others

Industry-standard 18mm threaded flat tubular body can be mounted like a tubular sensor or against any flat surface. Visible sensing beam simplifies setup and alignment. Solid polyurethane housing is highly resistant to shock and vibration. Adaptable modulation circuit protects against crosstalk. Background rejection models reliably detect targets regardless of color, reflectance, contrast, and surface shape. UL and C-UL Listed and CE Certified, except UL 508 Certified thru-beam source Nos. 2XCA3 to 2XCA7 and polarized retroreflective No. 2XCG3 are CSA and CE Certified.

ENHANCED 50 SERIES

- Light/dark operation
- Temp. range: -13° to 151°F

Fully potted construction for use in areas subject to washdown, high shock, or high vibration. High optical performance. Adjustable gain pots allow precise adjustment. CSA, CE, and UL 508 Certified.

SM SERIES

- Visible positioning aid
- Threaded barrel
- 18mm lens snout
- Miniature size fits small spaces
- Temp. range: -13° to 151°F

Visible sensing beam simplifies setup and alignment. TargetLock™ ensures reliable operation. LEDs indicate output/power/TargetLock.

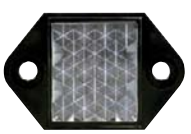
Description	Item No.
Accessories	
For Use With Enhanced 50, 30mm Photoelectric Sensors	
Nickel-Plated Short Right Angle Mounting Bracket	**2XCK4**
Nickel-Plated Tall Right Angle Mounting Bracket	**2XCK5**
Plastic Ball Swivel Mounting Bracket	**2XCK6**
For Use With 18mm Photoelectric Sensors	
Plastic Ball Swivel Mounting Bracket	**2XDG3**
Aluminum Right Angle Mounting Bracket	**2XCK7**
Aluminum Flat Mounting Bracket	**2XCK8**

Description	Power Requirement	Circuit Type	Max. Load Current	Max. Sensing Distance	Dia.	2-METER CABLE Item No.	4-PIN MICRO Item No.
Cylindrical Photoelectric Sensor							
Diffuse							
Comet	10 to 30VDC	NPN/PNP	250mA	610mm	18mm	**2XCD1**	**2XCD3**
Comet	10 to 30VDC	NPN/PNP	250mA	100mm	18mm	**2XCD9**	**2XCE2**
Comet	10 to 30VDC	NPN/PNP	250mA	50mm	18mm	**2XCE4**	**2XCE6**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	100mm	18mm	**2XCD8**	**2XCE1**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	50mm	18mm	**2XCE3**	**2XCE5**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	610mm	18mm	**2XCC9**	**2XCD2**
Comet, 90° View	10 to 30VDC	NPN/PNP	250mA	610mm	18mm	**2XCD5**	**2XCD7**
Comet, 90° View	10 to 30VDC	NPN/PNP	250mA	50mm	18mm	**2XCE8**	**2XCF1**
Comet, 90° View	10 to 30VDC	NPN/PNP	250mA	100mm	18mm	**2XCF5**	**2XCF3**
Comet, 90° View	20 to 264VAC/15 to 30VDC	NPN	300mA	50mm	18mm	**2XCE7**	**2XCE9**
Comet, 90° View	20 to 264VAC/15 to 30VDC	NPN	300mA	100mm	18mm	**2XCF4**	**2XCF2**
Comet, 90° View	20 to 264VAC/15 to 30VDC	NPN	300mA	610mm	18mm	**2XCD4**	**2XCD6**
SM, Dark On	10 to 30VDC	NPN/PNP	100mA	50mm	18mm	**2XDL8**	**2XDL9**
SM, Dark On	10 to 30VDC	NPN/PNP	100mA	100mm	18mm	**2XDN7**	**2XDN8**
SM, Dark On	10 to 30VDC	NPN/PNP	100mA	200mm	18mm	**2XDR5**	**2XDR6**
SM, Dark On	18 to 264VAC/18 to 50VDC	NPN	200mA	50mm	18mm	**2XDL4**	**2XDL5**
SM, Dark On	18 to 264VAC/18 to 50VDC	NPN	200mA	100mm	18mm	**2XDN3**	**2XDN4**
SM, Dark On	18 to 264VAC/18 to 50VDC	NPN	200mA	200mm	18mm	**2XDR1**	**2XDR2**
SM, Light On	10 to 30VDC	NPN/PNP	100mA	50mm	18mm	**2XDN1**	**2XDN2**
SM, Light On	10 to 30VDC	NPN/PNP	100mA	100mm	18mm	**2XDN9**	**2XDP1**
SM, Light On	10 to 30VDC	NPN/PNP	100mA	200mm	18mm	**2XDR7**	**2XDR8**
SM, Light On	18 to 264VAC/18 to 50VDC	NPN	200mA	50mm	18mm	**2XDL6**	**2XDL7**
SM, Light On	18 to 264VAC/18 to 50VDC	NPN	200mA	100mm	18mm	**2XDN5**	**2XDN6**
SM, Light On	18 to 264VAC/18 to 50VDC	NPN	200mA	200mm	18mm	**2XDR3**	**2XDR4**
Retroreflective							
Comet	10 to 30VDC	NPN/PNP	250mA	4.5m	18mm	**2XCG4**	**2XCG6**
Comet	10 to 30VDC	NPN/PNP	250mA	7.6m	18mm	**2XCH3**	**2XCH5**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	7.6m	18mm	**2XCH2**	**2XCH4**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	4.5m	18mm	**2XCG3**	**2XCG5**
Comet, 90° View	10 to 30VDC	NPN/PNP	250mA	4.5m	18mm	**2XCH7**	**2XCH9**
Comet, 90° View	15 to 30VDC	NPN/PNP	250mA	3.0m	18mm	**2XCG8**	**2XCH1**
Comet, 90° View	20 to 264VAC/15 to 30VDC	NPN	300mA	3.0m	18mm	**2XCG7**	**2XCG9**
Comet, 90° View	20 to 264VAC/15 to 30VDC	NPN	300mA	4.5m	18mm	**2XCH6**	**2XCH8**
SM, Dark On	10 to 30VDC	NPN/PNP	100mA	3.0m	18mm	**2XDP6**	**2XDP7**
SM, Dark On	18 to 264VAC/18 to 50VDC	NPN	200mA	3.0m	18mm	**2XDP2**	**2XDP3**
SM, Light On	10 to 30VDC	NPN/PNP	100mA	3.0m	18mm	**2XDP8**	**2XDP9**
SM, Light On	18 to 264VAC/18 to 50VDC	NPN	200mA	3.0m	18mm	**2XDP4**	**2XDP5**
Cylindrical Photoelectric Sensor Receiver							
Through Beam Receiver							
Comet	10 to 30VDC	NPN/PNP	250mA	24.0m	18mm	**2XCA9**	**2XCC2**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	24.0m	18mm	**2XCA8**	**2XCC1**
SM, Dark On	10 to 30VDC	NPN/PNP	100mA	15.0m	18mm	**2XDR9**	**2XDT1**
SM, Light On	10 to 30VDC	NPN/PNP	100mA	15.0m	18mm	**2XDT2**	**2XDT3**
Cylindrical Photoelectric Sensor Transmitter							
Through Beam Transmitter							
Comet	10 to 30VDC	NPN/PNP	250mA	Transmitter	18mm	**2UUT6**	**2XCA2**
Comet	20 to 264VAC/15 to 30VDC	NPN	300mA	Transmitter	18mm	**2UUT5**	**2XCA1**
SM	10 to 30VDC	NPN/PNP	100mA	Transmitter	18mm	**2XDT4**	**2XDT5**
Photoelectric Sensor							
Diffuse							
Enhanced 50	10 to 40VDC	NPN/PNP	250mA	3.0m	46mm	**2XCF8**	**2XCG2**
Enhanced 50	24 to 240VAC/12 to 240VDC	SPDT	3A	3.0m	46mm	**2XCF7**	**2XCF9**
Enhanced 50	24 to 240VAC/12 to 240VDC	SSR SPST	300mA	3.0m	46mm	**2XCF6**	**2XCG1**
Retroreflective							
Enhanced 50	10 to 40VDC	NPN/PNP	250mA	4.9m	46mm	**2XCJ9**	**2XCK3**
Enhanced 50	10 to 40VDC	NPN/PNP	250mA	9.0m	46mm	**2XCJ3**	**2XCJ6**
Enhanced 50	24 to 240VAC/12 to 240VDC	SSR SPST	300mA	4.9m	46mm	**2XCJ7**	**2XCK2**
Enhanced 50	24 to 240VAC/12 to 240VDC	SPDT	3A	4.9m	46mm	**2XCJ8**	**2XCK1** †
Enhanced 50	24 to 240VAC/12 to 240VDC	SSR SPST	300mA	9.0m	46mm	**2XCJ1**	**2XCJ5**
Enhanced 50	24 to 240VAC/12 to 240VDC	SPDT	3A	9.0m	46mm	**2XCJ2**	**2XCJ4** †
Through Beam Receiver							
Enhanced 50	10 to 40VDC	NPN/PNP	250mA	152.0m	46mm	**2XCC5**	**2XCC8**
Enhanced 50	24 to 240VAC/12 to 240VDC	SPDT	3A	152.0m	46mm	**2XCC4**	**2XCC6**
Enhanced 50	24 to 240VAC/12 to 240VDC	SSR SPST	300mA	152.0m	46mm	**2XCC3**	**2XCC7**
Through Beam Transmitter							
Enhanced 50	10 to 40VDC	—	—	152.0m	46mm	**2XCA4**	**2XCA7**
Enhanced 50	24 to 240VAC/12 to 240VDC	—	—	152.0m	46mm	**2XCA3**	**2XCA5**
Enhanced 50	24 to 240VAC/12 to 240VDC	—	—	152.0m	46mm	—	**2XCA6**

† 5-pin micro style connector.



No. 5B319



No. 5B151



No. 5B317

Reflectors

Telemecanique Sensors · EATON · ifm efector

CORNER CUBE REFLECTORS

Retroreflector prisms return a beam in the same direction it came from—even if the reflector and the source are skewed—for a high degree of reliability. For use with retroreflective photoelectric sensors. The only reflective surface that works with polarized photoelectric sensors. Select reflector smaller than your target.

Item	Shape	Color	Material	Mounting Hole	Luminance Factor	Max. Temp.	Dia.	L	W	D	Brand	Mfr. Model	Item No.
For Use With Polarized Retroreflective Photoelectric Sensors													
Corner Cube Reflector	Rectangular	Amber	Acrylic	—	4000X	150°F	—	3¼"	1½"	—	Telemecanique	RF13	**5B319**
	Rectangular	Black/Silver	Acrylic	Right/Left	6000X	150°F	—	1.3"	1.1"	—	Telemecanique	XUZC24	**5B151**
	Square	Black/Silver	Acrylic	Right/Left	6000X	150°F	—	2"	2"	—	Telemecanique	XUZC50	**5B150**
Flat Reflector	Round	Silver	Acrylic	Center	4000X	150°F	3"	—	—	—	Telemecanique	RF30	**5B317**
	Round	Silver	Acrylic	Center	4000X	150°F	2"	—	—	—	Telemecanique	RF20	**5B318**
	Round	Silver	Acrylic	—	4000X	150°F	1"	—	—	—	Telemecanique	RF10	**5B320**
	Round	Silver	Plastic	Center	3000X	158°F	3"	—	—	⅛"	Eaton	E51KR84	**2CKC9**
Reflective Tape	Rectangular	Silver	Paper	—	2000X	140°F	—	39"	29/32"	1/64"	Telemecanique	XUZB11	**2DC01**
	Rectangular	Silver	Paper	—	2000X	140°F	—	196"	29/32"	1/64"	Telemecanique	XUZB15	**2DC02**
For Use With Retroreflective Sensors													
Flat Reflector	Round	White/clear	Plastic	—	—	140°F	1"	—	—	3/16"	ifm	E20003	**35T436**
	Round	White/clear	Plastic	—	—	140°F	1½"	—	—	3/16"	ifm	E20004	**35T437**
	Round	White/clear	Plastic	Center	—	140°F	3"	—	—	3/16"	ifm	E20005	**35T438**
Reflective Tape	Rectangular	White	Paper	—	200X	200°F	—	12"	3"	1/64"	Telemecanique	RF7590	**2CW09**
	Rectangular	White	Paper	—	670X	150°F	—	12"	3"	1/64"	Telemecanique	RF3930	**2CW08**
	Rectangular	White	Paper	—	900X	175°F	—	12"	2"	1/64"	Telemecanique	RF7610	**2CW10**

18mm Diameter Photoelectric Sensors

- Long sensing ranges
- Visible red light enables easy setup

Sensing Method	Power Requirement	Circuit Type	Max. Load Current	Photoelectric Operating Mode	Max. Sensing Distance	Mfr. Model	Item No.
3-Pin ½" Male Connector							
Diffuse	20 to 250VAC/DC	AC	180mA	Light On	600mm	OG0035	**35T392**
Diffuse	20 to 250VAC/DC	AC	180mA	Dark On	600mm	OG0041	**35T393**
Retroreflective	20 to 250VAC/DC	AC	180mA	Light On	3.0m	OG0044	**35T394**
Retroreflective	20 to 250VAC/DC	AC	180mA	Dark On	3.0m	OG0033	**35T395**
Through Beam Receiver	20 to 250VAC/DC	AC	180mA	Light On	15.0m	OG0031	**35T396**
Through Beam Receiver	20 to 250VAC/DC	AC	180mA	Dark On	15.0m	OG0039	**35T397**
Through Beam Transmitter	20 to 250VAC/DC	AC	—	Light On	Transmitter	OG0030	**35T398**
4-Pin M12 Male Connector							
Diffuse	10 to 36VDC	PNP	200mA	Selectable Light On/Dark On	300mm	OGH500	**35T399**
Diffuse	10 to 36VDC	NPN	200mA	Selectable Light On/Dark On	300mm	OGH502	**35T401**
Retroreflective	10 to 36VDC	PNP	200mA	Selectable Light On/Dark On	5.0m	OGP500	**35T402**
Retroreflective	10 to 36VDC	NPN	200mA	Selectable Light On/Dark On	5.0m	OGP503	**35T403**
Through Beam Receiver	10 to 36VDC	PNP	200mA	Selectable Light On/Dark On	25.0m	OGE500	**35T404**
Through Beam Receiver	10 to 36VDC	NPN	200mA	Selectable Light On/Dark On	25.0m	OGE503	**35T405**
Through Beam Transmitter	10 to 36VDC	NPN/PNP	—	Selectable Light On/Dark On	Transmitter	OGS500	**35T406**
Mounting Brackets							
Die Cast Zinc Short Swivel Bracket, For Use With 18mm Dia. Series Photoelectric Sensors						E20718	**35T434**
Stainless Steel Short Swivel Bracket, For Use With 18mm Dia. Series Photoelectric Sensors						E20870	**35T435**

ifm efector

Designed and tested to withstand industrial automation applications. Integrated microprocessor-based electronics offer high performance and are completely sealed in compact housings. Background suppression versions reliably differentiate between target and background regardless of background color. Reliable position detection in conveying, material handling, packaging, and automotive applications.



No. 35T392



No. 35T399

Rectangular Photoelectric Sensors

ifm efector

- Max. load rating: 200mA

Sensing Method	Power Requirement	Output Circuit Type	Photoelectric Operating Mode	Max. Sensing Distance	Mfr. Model	Item No.
Right Angle, 4-Pin M12 Male Connector						
Diffuse	10 to 30VDC	PNP	Light On	100mm	OGH280	**35T414**
Diffuse	10 to 30VDC	NPN	Light On	100mm	OGH282	**35T415**
Diffuse	10 to 30VDC	PNP	Light On	200mm	OGH281	**35T416**
Diffuse	10 to 30VDC	NPN	Light On	200mm	OGH283	**35T417**
Diffuse	10 to 30VDC	PNP	Selectable Light On/Dark On	200mm	OGH580	**35T418**
Diffuse	10 to 30VDC	NPN	Selectable Light On/Dark On	200mm	OGH581	**35T419**
Retroreflective	10 to 30VDC	PNP	Dark On	4.0m	OGP280	**35T420**
Retroreflective	10 to 30VDC	PNP	Light On	4.0m	OGP281	**35T421**
Retroreflective	10 to 30VDC	NPN	Dark On	4.0m	OGP282	**35T422**
Through Beam Receiver	10 to 30VDC	PNP	Dark On	20.0m	OGE280	**35T423**
Through Beam Receiver	10 to 30VDC	PNP	Light On	20.0m	OGE281	**35T424**
Through Beam Receiver	10 to 30VDC	NPN	Dark On	20.0m	OGE282	**35T425**
Through Beam Transmitter	10 to 30VDC	Transmitter	Selectable Light On/Dark On	20.0m	OGS280	**35T426**
Rectangular, 4-Pin M12 Male Connector						
Diffuse	10 to 36VDC	PNP	Selectable Light On/Dark On	1.8m	O5H500	**35T427**
Diffuse	10 to 36VDC	NPN	Selectable Light On/Dark On	1.8m	O5H504	**35T428**
Retroreflective	10 to 36VDC	PNP	Selectable Light On/Dark On	10.0m	O5P500	**35T429**
Retroreflective	10 to 36VDC	NPN	Selectable Light On/Dark On	10.0m	O5P502	**35T430**
Through Beam Receiver	10 to 36VDC	PNP	Selectable Light On/Dark On	25.0m	O5E500	**35T431**
Through Beam Receiver	10 to 36VDC	NPN	Selectable Light On/Dark On	25.0m	O5E502	**35T432**
Through Beam Transmitter	10 to 36VDC	Transmitter	Selectable Light On/Dark On	25.0m	O5S500	**35T433**
Mounting Bracket						
For Use With O5 Series Photoelectric Sensors					E21087	**35T439**

RIGHT ANGLE

- Max. range: 65-ft.
- AC version has 2 wires for quick installation
- 18mm dia. mounting thread

Cube sensor occupies less space than traditional tubular sensors and is ideal for applications with limited mounting space. Polarized retro-reflective models contain a filter that eliminates false triggers from shiny targets and a 13 ft. range with a 80mm dia. reflector. Metal body.

RECTANGULAR

- Max. range: 82-ft.
- Rugged housing

Connector rotates 270° for versatile mounting options. Protective metal frame withstands mechanical damage in applications.



No. 35T420



No. 35T430

Prox. Sensor Dia.	Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Prox. Sensor Elec. Connection	Case Material	Mfr. Model	Item No.
Cylindrical Proximity Sensor								
18.0mm	10 to 36VDC	3 Wire PNP	12.0mm	NO/NC	4 Pin M12 Connector	PBT	KG5066	**35T516**
18.0mm	20 to 250VAC/DC	2 Wire	8.0mm	NO	2m Cable	PBT	KG0009	**35T522**
18.0mm	20 to 250VAC/DC	2 Wire	8.0mm	NC	2m Cable	PBT	KG0010	**35T523**
18.0mm	20 to 250VAC/DC	2 Wire	12.0mm	NO/NC	2 Pin ½" UNF Connector	PBT	KG0016	**35T529**
30.0mm	10 to 36VDC	3 Wire NPN	15.0mm	NO/NC	2m Cable	PBT	KI5208	**35T518**
30.0mm	10 to 36VDC	3 Wire PNP	15.0mm	NO/NC	2m Cable	PBT	KI5207	**35T517**
30.0mm	10 to 36VDC	3 Wire PNP/NPN	20.0mm	NO/NC	4 Pin M12 Connector	PBT	KI5082	**35T519**
30.0mm	10 to 36VDC	3 Wire PNP/NPN	8.0mm	NO/NC	4 Pin M12 Connector	316L Stainless Steel	KI5084	**35T520**
30.0mm	10 to 36VDC	3 Wire PNP/NPN	15.0mm	NO/NC	4 Pin M12 Connector	316L Stainless Steel	KI5086	**35T521**
30.0mm	20 to 250VAC/DC	2 Wire	15.0mm	NO	2m Cable	PBT	KI0202	**35T524**
30.0mm	20 to 250VAC/DC	2 Wire	15.0mm	NC	2m Cable	PBT	KI0203	**35T525**
30.0mm	30 to 250VAC, 20 to 250VDC	2 Wire	20.0mm	NO/NC	2 Pin ½" UNF Connector	PBT	KI0054	**35T530**
Rectangular Proximity Sensor								
—	10 to 30VDC	PNP	12.0mm	NO/NC	M12 Connector	PBT	KQ6005	**35T528**
—	10 to 30VDC	PNP/NPN	12.0mm	NO/NC	2m Cable	PBT	KQ6001	**35T526**
—	10 to 30VDC	PNP/NPN	12.0mm	NO/NC	M8 Connector	PBT	KQ6003	**35T527**
—	24 to 240VAC/DC	PNP/NPN	60.0mm	NO/NC	⅞-16 UN Connector	PPE	KD3500	**35T533**
Rectangular Proximity Sensor Accessories								
Fixing Strap, Set of 5							E10880	**35T532**
Mounting Adapter							E12153	**35T531**

Capacitive Proximity Sensors

ifm efector

Ideal for noncontact detection of nonmetallic targets. NEMA IP67.



No. 35T529



No. 35T526

M8, M12, and ½" Cordsets

ifm efector

- Female connector to flying leads

Deliver high quality and excellent value. Designed with a lock-in-place coupling nut that secures the cordset to a quick disconnect sensor and resists high levels of shock and vibration. High-flex, PUR-jacketed cable is rated to over 5 million flex cycles. Features a special insert that acts as a mechanical end-stop preventing damage to the O-ring. Designed to resist harsh conditions in industrial automation and oils and coolants. Silicon and halogen free.

No. of Cond.	End 1 Thread	Jacket Color	Max. Voltage	CABLE LENGTH 2m Item No.	5m Item No.	10m Item No.
Straight						
3	½-20	Yellow	300VAC/DC	**35T482**	**35T483**	—
3	M8	Black	50VAC/60VDC	**35T466**	**35T467**	—
4	M8	Black	50VAC/60VDC	**35T470**	**35T471**	—
4	M12	Black	250VAC/300VDC	**35T474**	**35T475**	—
4	M12	Orange	250VAC/300VDC	—	**35T478**	**35T479**
Right Angle						
3	½-20	Yellow	300VAC/DC	**35T484**	**35T485**	—
3	M8	Black	50VAC/60VDC	**35T468**	**35T469**	—
4	M8	Black	50VAC/60VDC	**35T472**	**35T473**	—
4	M12	Black	250VAC/300VDC	**35T476**	**35T477**	—
4	M12	Orange	250VAC/300VDC	—	**35T480**	**35T481**



No. 35T466



No. 35T468



Unshielded, Brass Case No. 1EWJ3



Shielded, Brass Case No. 1EVL6



Food and Beverage Unshielded, Plastic Case No. 1EWX9

Telemecanique Cylindrical Inductive Proximity Sensors

Telemecanique Sensors

- Temp. range: -13° to 158° F; except food and beverage, -13° to 185°F

NEMA 4X rated. UL Listed, CSA and CE Certified, RoHS compliant.

Food and beverage sensors are rated IP69K for high-pressure, high-temp. washdown applications.

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	8.0mm Dia. Max. Detecting Distance	8.0mm Dia. Item No.	12.0mm Dia. Max. Detecting Distance	12.0mm Dia. Item No.	18.0mm Dia. Max. Detecting Distance	18.0mm Dia. Item No.	30.0mm Dia. Max. Detecting Distance	30.0mm Dia. Item No.
XS6 Series, Shielded, Nickel Plated Brass Case, Long Barrel, Increased Range											
24 to 240VAC/DC	2 Wire	NO	2m Cable	—	—	4.0mm	1EXJ5	8.0mm	1EXK3	15.0mm	1EXL1
24 to 240VAC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	4.0mm	1EXJ6	8.0mm	4AJ18	15.0mm	1EXL2
24 to 240VAC/DC	2 Wire	NC	2m Cable	—	—	4.0mm	1EXJ7	8.0mm	1EXK4	15.0mm	1EXL3
24 to 240VAC/DC	2 Wire	NC	3 Pin ½-20 UNF Male Connector	—	—	—	—	8.0mm	1EXK5	—	—
12 to 48VDC	3 Wire NPN	NO	2m Cable	2.5mm	1EXJ2	4.0mm	1EXJ8	8.0mm	1EXK6	15.0mm	1EXL4
12 to 48VDC	3 Wire NPN	NO	4 Pin M12 Connector	2.5mm	1EXJ3	4.0mm	1EXJ9	8.0mm	1EXK7	15.0mm	1EXL5
12 to 48VDC	3 Wire PNP	NO	2m Cable	2.5mm	1EXN5	4.0mm	1EXK1	8.0mm	1EXK8	15.0mm	1EXL6
12 to 48VDC	3 Wire PNP	NO	4 Pin M12 Connector	2.5mm	1EXN6	4.0mm	1EXK2	8.0mm	1EXK9	—	—
XS5 Series, Shielded, Nickel Plated Brass Case, Short Barrel, Standard Range											
24 to 240VAC/DC	2 Wire	NO	2m Cable	—	—	2.0mm	30UH36	5.0mm	30UH42	10.0mm	30UH48
12 to 48VDC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	2.0mm	30UH40	—	—	10.0mm	30UH50
12 to 24VDC	3 Wire NPN	NO	2m Cable	1.5mm	1WVN6	2.0mm	1WVN9	5.0mm	1WVP3	10.0mm	1WVP6
12 to 24VDC	3 Wire NPN	NO	4 Pin M12 Connector	1.5mm	32J323	2.0mm	1EXH6	5.0mm	1EXH8	10.0mm	1WVP9
12 to 24VDC	3 Wire PNP	NO	2m Cable	1.5mm	1WVN7	2.0mm	1WVP1	5.0mm	1WVP4	10.0mm	1WVP7
12 to 24VDC	3 Wire PNP	NO	4 Pin M12 Connector	1.5mm	32J324	2.0mm	1EXH7	5.0mm	1WVP8	10.0mm	32J325
XS2 Series, Unshielded, Nickel Plated Brass Case											
12 to 24VDC	3 Wire NPN	NO	2m Cable	2.0mm	1EVZ2	4.0mm	1EWC8	8.0mm	1EWH4	15.0mm	1EWL9
12 to 24VDC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	—	—	8.0mm	1EWH6	15.0mm	1EWN2
12 to 24VDC	3 Wire PNP	NO	2m Cable	2.5mm	1EWA1	4.0mm	1EWD7	8.0mm	1EWJ3	15.0mm	1EWN8
12 to 24VDC	3 Wire PNP	NO	4 Pin M12 Connector	2.5mm	1EWA3	4.0mm	1EWD9	8.0mm	1EWJ5	—	—
XS1 Series, Shielded, Nickel Plated Brass Case											
12 to 24VDC	3 Wire NPN	NO	2m Cable	1.5mm	1EVJ2	2.0mm	1EVL4	5.0mm	1EVP5	10.0mm	1EVT6
12 to 24VDC	3 Wire NPN	NO	4 Pin M12 Connector	1.5mm	1EVJ4	2.0mm	1EVL6	5.0mm	1EVP7	10.0mm	1EVT8
12 to 24VDC	3 Wire PNP	NO	2m Cable	1.5mm	1EVK1	2.0mm	1EVN3	—	—	10.0mm	1EVU5
12 to 24VDC	3 Wire PNP	NO	4 Pin M12 Connector	1.5mm	1EVK3	2.0mm	1EVN5	5.0mm	1EVR6	10.0mm	1EVU7
Food and Beverage Sensors, XS2 Series, Unshielded, Plastic Case											
24 to 240VAC/DC	2 Wire	NO	2m Cable	—	—	—	—	12.0mm	1EWY8	22.0mm	1EWZ3
24 to 240VAC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	—	—	12.0mm	1EWZ2	22.0mm	1EWZ6
12 to 24VDC	3 Wire NPN	NO	2m Cable	—	—	7.0mm	1EWX5	12.0mm	1EWX9	22.0mm	1EWY4
12 to 24VDC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	7.0mm	1EWX8	12.0mm	1EWY3	22.0mm	1EWY7
12 to 24VDC	3 Wire PNP	NO	2m Cable	—	—	7.0mm	1EWV2	12.0mm	1EWV6	22.0mm	1EWX1
12 to 24VDC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	7.0mm	1EWV5	12.0mm	1EWV9	22.0mm	1EWX4
Food and Beverage Sensors, XS2 Series, Unshielded, 316L Stainless Steel Case											
24 to 240VAC/DC	2 Wire	NO	2m Cable	—	—	—	—	12.0mm	1EWU3	22.0mm	1EWU7
24 to 240VAC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	—	—	12.0mm	1EWU6	22.0mm	1EWV1
12 to 24VDC	3 Wire NPN	NO	2m Cable	—	—	7.0mm	1EWR9	12.0mm	1EWT4	22.0mm	1EWT8
12 to 24VDC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	7.0mm	1EWT3	12.0mm	1EWT7	22.0mm	1EWU2
12 to 24VDC	3 Wire PNP	NO	2m Cable	—	—	7.0mm	1EWP6	12.0mm	1EWR1	22.0mm	1EWR5
12 to 24VDC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	7.0mm	1EWP9	12.0mm	1EWR4	22.0mm	1EWR8



18mm No. 2XCT1



30mm No. 2XCU4

EATON

Eaton Cylindrical Inductive Proximity Sensors

Stainless steel sensors for use with metallic targets. NEMA rated 4, 4X, 6, 6P, 12, and 13 (IP67, IP69K). C-UL Listed. Models with NPN and PNP circuits also CE Certified.

IPROX®

- AC models rated for 250mA max. load,
- DC models rated for 300mA max. load
- Temp. range: -40° to 158°F

Extended sensing ranges. Shock-resistant front cap. Wired NO; advanced features can be configured using optional software No. 2XDL3, sold separately. For automotive, machine tool, material handling, and metalworking applications.

E57 SERIES

- AC and DC models rated for 250mA max. load
- Temp. range: -13° to 158°F
- 360° LED status indicator

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	12.0mm Dia. Max. Detecting Distance	12.0mm Dia. Item No.	18.0mm Dia. Max. Detecting Distance	18.0mm Dia. Item No.	30.0mm Dia. Max. Detecting Distance	30.0mm Dia. Item No.	8.0mm Dia. Max. Detecting Distance	8.0mm Dia. Item No.
iProx®, Unshielded											
20 to 132VAC	2 Wire	NO	2m Cable	10.0mm	2XDJ2	18.0mm	2XDK3	29.0mm	2XDK9	—	—
20 to 132VAC	2 Wire	NO	3 Pin Micro AC Connector	10.0mm	2XDJ1	18.0mm	2XDK2	29.0mm	2XDK8	—	—
6 to 48VDC	Programmable	NO	2m Cable	10.0mm	2XDJ3	16.0mm	2XDJ9	29.0mm	2XDL1	—	—
6 to 48VDC	Programmable	NO	4 Pin Micro DC Connector	10.0mm	2XDJ4	16.0mm	2XDK1	29.0mm	2XDL2	—	—
iProx®, Shielded											
20 to 132VAC	2 Wire	NO	2m Cable	—	—	8.0mm	2XDJ8	15.0mm	2XDK5	—	—
20 to 132VAC	2 Wire	NO	3 Pin Micro AC Connector	4.0mm	2XDH7	8.0mm	2XDJ7	15.0mm	2XDK4	—	—
6 to 48VDC	Programmable	NO	2m Cable	4.0mm	2XDH8	8.0mm	2XDJ5	15.0mm	2XDK6	—	—
6 to 48VDC	Programmable	NO	4 Pin Micro DC Connector	4.0mm	2XDH9	8.0mm	2XDJ6	15.0mm	2XDK7	—	—
E57 Long Range Series, Unshielded											
20 to 250VAC	2 Wire	NO	2m Cable	—	—	—	—	15.0mm	2XCV7 *	—	—
20 to 250VAC	2 Wire	NO	3 Pin Micro AC Connector	—	—	—	—	15.0mm	2XCV8 *	—	—
20 to 250VAC	2 Wire	NC	2m Cable	—	—	—	—	15.0mm	2XCW4 *	—	—
20 to 250VAC	2 Wire	NC	3 Pin Micro AC Connector	—	—	—	—	15.0mm	2XCW5 *	—	—
20 to 132VAC	2 Wire	NO	2m Cable	10.0mm	2XCN4	20.0mm	2XCT1	—	—	—	—
20 to 132VAC	2 Wire	NO	3 Pin Micro AC Connector	10.0mm	2XCN7	20.0mm	2XCT4	—	—	—	—
20 to 132VAC	2 Wire	NC	2m Cable	10.0mm	2XCN5	20.0mm	2XCT2	—	—	—	—
20 to 132VAC	2 Wire	NC	3 Pin Micro AC Connector	10.0mm	2XCN6	20.0mm	2XCT3	—	—	—	—
10 to 30VDC	3 Wire NPN	NO	2m Cable	4.0mm	40HX87	8.0mm	40HX67	15.0mm	40HX42	2.0mm	39F034
10 to 30VDC	3 Wire NPN	NO	4 Pin Micro DC Connector	4.0mm	40HX75	8.0mm	40HX47	15.0mm	40HX78	2.0mm	39F035
10 to 30VDC	3 Wire PNP	NO	2m Cable	4.0mm	40HX63	8.0mm	40HX57	15.0mm	40HX66	2.0mm	39F036
10 to 30VDC	3 Wire PNP	NO	4 Pin Micro DC Connector	4.0mm	40HX59	8.0mm	40HX44	15.0mm	40HX62	2.0mm	39F037
6 to 48VDC	3 Wire NPN	NO	2m Cable	10.0mm	2XCP3	20.0mm	2XCT9	—	—	—	—
6 to 48VDC	3 Wire NPN	NO	4 Pin Micro DC Connector	10.0mm	2XCP6	20.0mm	2XCU3	—	—	—	—
6 to 48VDC	3 Wire PNP	NO	2m Cable	10.0mm	2XCN8	20.0mm	2XCT5	—	—	—	—
6 to 48VDC	3 Wire PNP	NO	4 Pin Micro DC Connector	10.0mm	2XCP2	20.0mm	2XCT8	—	—	—	—
E57 Long Range Series, Shielded											
10 to 30VDC	3 Wire NPN	NO	2m Cable	2.0mm	40HX79	5.0mm	40HX84	10.0mm	40HX85	1.0mm	39F030
10 to 30VDC	3 Wire NPN	NO	4 Pin Micro DC Connector	2.0mm	40HX49	5.0mm	40HX64	10.0mm	40HX45	1.0mm	39F031
10 to 30VDC	3 Wire PNP	NO	2m Cable	2.0mm	40HX83	5.0mm	40HX70	10.0mm	40HX73	1.0mm	39F032
10 to 30VDC	3 Wire PNP	NO	4 Pin Micro DC Connector	2.0mm	40HX69	5.0mm	40HX41	10.0mm	40HX72	1.0mm	39F033
E57 Long Range Series, Semi-Shielded											
20 to 132VAC	2 Wire	NO	2m Cable	6.0mm	2XCL1	12.0mm	2XCP7	22.0mm	2XCU4	—	—
20 to 132VAC	2 Wire	NO	3 Pin Micro AC Connector	6.0mm	2XCL4	12.0mm	2XCR1	22.0mm	2XCU7	—	—
20 to 132VAC	2 Wire	NC	2m Cable	6.0mm	2XCL2	12.0mm	2XCP8	22.0mm	2XCU5	—	—
20 to 132VAC	2 Wire	NC	3 Pin Micro AC Connector	6.0mm	2XCL3	12.0mm	2XCP9	22.0mm	2XCU6	—	—
6 to 48VDC	3 Wire NPN	NO	2m Cable	6.0mm	2XCL9	12.0mm	2XCR6	22.0mm	2XCV3	—	—
6 to 48VDC	3 Wire NPN	NO	4 Pin Micro DC Connector	6.0mm	2XCN3	12.0mm	2XCR9	22.0mm	2XCV6	—	—
6 to 48VDC	3 Wire PNP	NO	2m Cable	6.0mm	2XCL5	12.0mm	2XCR2	22.0mm	2XCU8	—	—
6 to 48VDC	3 Wire PNP	NO	4 Pin Micro DC Connector	6.0mm	2XCL8	12.0mm	2XCR5	22.0mm	2XCV2	—	—

Description	For Use With	Mfr. Model	Item No.
Accessories			
Programming Software, Includes RS-232 Programming Cable, ProxView Software	iProx® E59 Proximity Sensor	E59RP1	2XDL3
Right Angle Proximity Sensor Mount, Stainless Steel	12mm Dia. Proximity Sensor	E57KM12	2XDT6
Right Angle Proximity Sensor Mount, Stainless Steel	18mm Dia. Proximity Sensor	E57KM18	2XDT7

** Rated 20-250V.*

ifm efector

Inductive Proximity Sensors

Ideal for noncontact detection of metal targets in position sensing applications and part presence application. Extended sensing ranges reduce failure from mechanical damage. Robust housing is designed for industrial applications. 4 visible LED outputs indicate status, making troubleshooting quick and easy. NEMA IP67.



No. 35T376



No. 35T311

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	Case Material	SHIELDED Max. Detecting Distance	SHIELDED Mfr. Model	SHIELDED Item No.	UNSHIELDED Max. Detecting Distance	UNSHIELDED Mfr. Model	UNSHIELDED Item No.
8.0mm Dia.										
10 to 36VDC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	1.0mm	IE5207	**35T375**	—	—	—
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	1.0mm	IE5123	**35T368**	—	—	—
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	1.0mm	IE5121	**35T361**	—	—	—
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	2.0mm	IE5312	**35T307**	4.0mm	IE5288	**35T308**
12.0mm Dia.										
10 to 30VDC	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS242	**40KH14**	7.0mm	IFS243	**40KH18**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS249	**40KH16**	7.0mm	IFS251	**40KH20**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	4.0mm	IFS254	**40KH38**	7.0mm	IFS255	**40KH40**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS246	**40KH50**	7.0mm	IFS247	**40KH54**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS262	**40KH52**	7.0mm	IFS263	**40KH56**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	4.0mm	IFS258	**40KH74**	7.0mm	IFS259	**40KH76**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS204	**35T309**	7.0mm	IFS205	**35T310**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS212	**35T313**	7.0mm	IFS213	**35T314**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS240	**40KH13**	7.0mm	IFS241	**40KH17**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS248	**40KH15**	7.0mm	IFS250	**40KH19**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	4.0mm	IFS252	**40KH37**	7.0mm	IFS253	**40KH39**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS244	**40KH49**	7.0mm	IFS245	**40KH53**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	4.0mm	IFS260	**40KH51**	7.0mm	IFS261	**40KH55**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	4.0mm	IFS256	**40KH73**	7.0mm	IFS257	**40KH75**
10 to 36VDC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	2.0mm	IF5720	**35T376**	4.0mm	IF5719	**20XG34**
15 to 30VDC	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	2.0mm	IF7102	**35T311**	4.0mm	IF7103	**35T312**
	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	2.0mm	IF7106	**35T369**	4.0mm	IF7107	**35T370**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	2.0mm	IF7104	**35T362**	4.0mm	IF7105	**35T363**
20 to 140VAC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	4.0mm	IF0311	**35T329**	7.0mm	IF0312	**35T330**
20 to 250VAC	2 Wire	NO	2m Cable	Brass White Bronze Coated	2.0mm	IF0303	**35T349**	4.0mm	IF0302	**35T351**
	2 Wire	NC	2m Cable	Brass White Bronze Coated	2.0mm	IF0006	**35T350**	4.0mm	IF0008	**35T352**
18.0mm Dia.										
10 to 30VDC	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	5.0mm	IG7102	**35T317**	8.0mm	IG7103	**35T318**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS234	**40KH22**	12.0mm	IGS235	**40KH26**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS241	**40KH24**	12.0mm	IGS243	**40KH28**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	8.0mm	IGS246	**40KH42**	12.0mm	IGS247	**40KH44**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS238	**40KH58**	12.0mm	IGS239	**40KH62**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS254	**40KH60**	12.0mm	IGS255	**40KH64**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	8.0mm	IGS250	**40KH78**	12.0mm	IGS251	**40KH80**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS232	**40KH21**	12.0mm	IGS233	**40KH25**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS240	**40KH23**	12.0mm	IGS242	**40KH27**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS212	**35T319**	12.0mm	IGS213	**35T320**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	8.0mm	IGS244	**40KH41**	12.0mm	IGS245	**40KH43**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS236	**40KH57**	12.0mm	IGS237	**40KH61**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS252	**40KH59**	12.0mm	IGS253	**40KH63**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	8.0mm	IGS248	**40KH77**	12.0mm	IGS249	**40KH79**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8.0mm	IGS204	**35T315**	12.0mm	IGS205	**35T316**
10 to 36VDC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	5.0mm	IG5717	**35T378**	—	—	—
15 to 30VDC	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	—	—	—	8.0mm	IG7107	**35T372**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	5.0mm	IG7104	**35T364**	8.0mm	IG7105	**35T365**
20 to 250VAC/DC	2 Wire	NO	2m Cable	316L Stainless Steel	5.0mm	IG0328	**35T353**	—	—	—
	2 Wire	NC	2m Cable	Brass White Bronze Coated	5.0mm	IG0327	**35T354**	8.0mm	IG0313	**35T356**
	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	8.0mm	IG0344	**35T331**	12.0mm	IG0345	**35T332**
	2 Wire	NO	2m Cable	Brass White Bronze Coated	—	—	—	8.0mm	IG0307	**35T355**
30.0mm Dia.										
10 to 30VDC	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	15.0mm	IIS240	**40KH46**	22.0mm	IIS241	**40KH48**
	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	10.0mm	II7102	**35T323**	—	—	—
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS235	**40KH32**	22.0mm	IIS237	**40KH36**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS232	**40KH66**	22.0mm	IIS233	**40KH70**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS248	**40KH68**	22.0mm	IIS249	**40KH72**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS228	**40KH30**	22.0mm	IIS229	**40KH34**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	15.0mm	IIS244	**40KH82**	22.0mm	IIS245	**40KH84**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS230	**40KH65**	22.0mm	IIS231	**40KH69**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS246	**40KH67**	22.0mm	IIS247	**40KH71**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	15.0mm	IIS238	**40KH45**	22.0mm	IIS239	**40KH47**
	3 Wire PNP	NO	4 Pin M12 Connector	316L Stainless Steel	15.0mm	IIS210	**35T325**	22.0mm	IIS211	**35T326**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS226	**40KH29**	22.0mm	IIS227	**40KH33**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS204	**35T321**	22.0mm	IIS205	**35T322**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	15.0mm	IIS242	**40KH81**	22.0mm	IIS243	**40KH83**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	15.0mm	IIS234	**40KH31**	22.0mm	IIS236	**40KH35**
15 to 30VDC	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	—	—	—	15.0mm	II7107	**35T374**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	10.0mm	II7104	**35T366**	—	—	—
20 to 250VAC/DC	2 Wire	NC	2m Cable	Brass White Bronze Coated	—	—	—	15.0mm	II0275	**35T360**
	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	15.0mm	II0340	**35T333**	22.0mm	II0341	**35T334**
Rectangular Proximity Sensor										
10 to 36VDC	3 Wire PNP	NO	M12 Connector	Polyamide	20.0mm	IM5115	**35T327**	35.0mm	IM5116	**35T328**
24 to 240VAC/DC	3 Wire	NC	3 Pin ½-20 UNF Male Connector	PPE, PPS	—	—	—	35.0mm	IM0057	**35T336**
	3 Wire	NO	3 Pin ½-20 UNF Male Connector	PPE, PPS	20.0mm	IM0054	**20XG33**	—	—	—

ifm efector

Inductive Proximity Sensors

- NEMA rated IP67
- Operating temp. range: -13° to 176°F
- 0.40" W x 1.09" L x 0.63" D

Feature 2m cable connection, PBT case, shielded body, and 1 yellow LED for output state.



No. 24JY94

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	OUTPUT MODE NO Mfr. Model	OUTPUT MODE NO Item No.	OUTPUT MODE NC Mfr. Model	OUTPUT MODE NC Item No.
10 to 30VDC	PNP	2.0mm	IS5001	**24JY94**	IS5002	**24JY95**
10 to 36VDC	NPN	2.0mm	IS5003	**24JY96**	IS5004	**24JY97**


No. 6C796


No. 3XC05


No. 6C803


No. 1EA75


No. 3XC02

Tubular Proximity Sensors

OMRON®

- LED status indicator(s), unless noted in table
- Inductive sensors: for ferrous-metal targets
- Capacitive sensors: for metallic and nonmetallic targets

Prox. Sensor Dia.	Max. Detecting Distance	Prox. Sensor Elec. Connection	Mfr. Model	24 to 240VAC, 2 Wire, NO Item No.	24 to 240VAC, 2 Wire, NC Item No.	12 to 24VDC, 3 Wire NPN, NO Item No.	12 to 24VDC, 3 Wire PNP, NO Item No.	12 to 24VDC, 2 Wire, NO Item No.	12 to 24VDC, 3 Wire NPN, NC Item No.
Shielded, Inductive, Nickel Plated Brass Case									
8.0mm	1.5mm	2m Cable	E2E	—	—	—	6C809	—	—
8.0mm	1.5mm	4 Pin M12 Connector	E2E	—	—	—	2AKC7	—	—
8.0mm	2.0mm	2m Cable	E2E	—	—	—	—	6C817	—
12.0mm	2.0mm	2m Cable	E2E	2A186	6C810	2A264	2A189	—	—
12.0mm	2.0mm	2m Cable	E2E2	6C796	6C797	6C798	2AJZ8	—	—
12.0mm	2.0mm	4 Pin M12 Connector	E2E	1EA58	—	—	—	—	—
12.0mm	2.0mm	4 Pin M12 Connector	E2E	1EA56	—	1EA54	2AKC6	—	—
12.0mm	2.0mm	4 Pin M12 Connector	E2E2	1EA68	—	1EA64	2AKA5	—	—
12.0mm	3.0mm	2m Cable	E2E	—	—	—	—	6C818	—
12.0mm	3.0mm	2m Cable	E2E2	—	—	—	—	1EA60	—
18.0mm	5.0mm	2m Cable	E2E	3XC05	—	3XC06	6C806	—	—
18.0mm	5.0mm	2m Cable	E2E2	6C799	6C800	6C801	2AJZ9	—	—
18.0mm	5.0mm	4 Pin M12 Connector	E2E	1EA59	—	—	—	—	—
18.0mm	5.0mm	4 Pin M12 Connector	E2E	1EA57	—	1EA55	2AKC5	—	—
18.0mm	5.0mm	4 Pin M12 Connector	E2E2	1EA69	—	1EA65	2AKA4	—	—
18.0mm	7.0mm	2m Cable	E2E	—	—	—	—	6C819	—
18.0mm	7.0mm	2m Cable	E2E2	—	—	—	—	1EA61	—
30.0mm	10.0mm	2m Cable	E2E	2AKB2	—	4A332	6C805	2AKB9	—
30.0mm	10.0mm	2m Cable	E2E2	6C803	6C804	6C802	2AKA1	2AKA9	—
30.0mm	10.0mm	3 Pin M12 Connector	E2E	2AKB5	—	—	—	—	—
30.0mm	10.0mm	3 Pin M12 Connector	E2E2	2AJZ6	—	—	—	—	—
30.0mm	10.0mm	4 Pin M12 Connector	E2E	2AKB6	—	2AKC3	2AKC4	—	—
30.0mm	10.0mm	4 Pin M12 Connector	E2E2	—	—	2AKA3	—	—	—
Shielded, Inductive, Plastic Case									
8.0mm	1.5mm	2m Cable	E2F	6C824	—	6C825	1EA75	—	2AKF4
12.0mm	2.0mm	2m Cable	E2F	6C823	2AKE7	3XC02	1EA76	—	2AKF3
18.0mm	5.0mm	2m Cable	E2F	1EA78	2AKE6	6C826	1EA77	—	2AKF2
30.0mm	10.0mm	2m Cable	E2F	—	—	6C827	2AKF1	—	2AKE9
Shielded, Inductive, Stainless Steel Case									
8.0mm	1.5mm	2m Cable	E2E	6C811	6C812	6C807	—	—	—
8.0mm	1.5mm	4 Pin M12 Connector	E2E	—	—	1EA53	—	—	—
Unshielded, Capacitive, Plastic Case									
12.0mm	4.0mm	2m Cable	E2K	6C837 *#	6C838 *#	6C840 *	—	—	—
18.0mm	8.0mm	2m Cable	E2K	2AKD3 #	2AKD4 #	6C841 *	2AKD8	—	—
30.0mm	15.0mm	2m Cable	E2K	6C839 *#	3XC03 *#	6C843 *	2AKD6 *	—	—
34.0mm	25.0mm	2m Cable	E2K	4A331 *†#	4A341 *†#	6C835 *†	2AKF5 *†	—	6C836 *†
Unshielded, Inductive, Nickel Plated Brass Case									
8.0mm	2.0mm	2m Cable	E2E	—	—	1EA50	—	—	—
12.0mm	5.0mm	2m Cable	E2E	2AKB3	—	1EA51	—	—	—
12.0mm	5.0mm	2m Cable	E2E2	1EA73	—	—	—	—	—
12.0mm	8.0mm	2m Cable	E2E2	—	—	—	—	1EA62	—
18.0mm	10.0mm	2m Cable	E2E	—	—	1EA52	—	—	—
18.0mm	10.0mm	2m Cable	E2E2	1EA74	—	—	—	—	—
18.0mm	10.0mm	4 Pin M12 Connector	E2E2	—	—	1EA67	—	—	—
18.0mm	14.0mm	2m Cable	E2E2	—	—	—	—	1EA63	—
30.0mm	20.0mm	2m Cable	E2E2	—	—	—	—	2AKB1	—
Unshielded, Inductive, Stainless Steel Case									
8.0mm	2.0mm	2m Cable	E2E	2AKB4	—	—	—	—	—

** No LED status indicator. † Includes L-shaped bracket. ‡ 90-140VAC only. # 90-250VAC only.*


No. 6C829

Inductive Proximity Sensors

OMRON®

- -13° to 158°F

CE Certified.

Note: Mounting brackets are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "proximity sensor mounting brackets."

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Max. Current Load	L	W	D	Mfr. Model	Item No.
Subminiature Flat-Pack Style									
10 to 30VDC	3 Wire NPN	3.0mm	NO	100mA	27mm	10mm	6mm	TL-W3MC1	6C829
10 to 30VDC	3 Wire NPN	5.0mm	NO	100mA	31mm	18mm	10mm	TL-W5MC1	6C830
10 to 30VDC	3 Wire NPN	5.0mm	NO	200mA	52mm	25mm	10mm	TL-W5E1	6C831
10 to 30VDC	3 Wire NPN	5.0mm	NC	200mA	52mm	25mm	10mm	TL-W5E2	6C832
10 to 30VDC	3 Wire NPN	20.0mm	NO	200mA	53mm	40mm	23mm	TL-W20ME1	6C833
10 to 30VDC	3 Wire NPN	20.0mm	NC	200mA	73mm	40mm	23mm	TL-W20ME2	6C834

Telemecanique XS Series Proximity Sensors

Telemecanique Sensors

- 40mm square body
- Plastic case
- -13° to 158°F

UL Listed, CSA and CE Certified.


No. 32J303


No. 32J306

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Max. Current Load	Mfr. Model	Item No.
Cubic C2 Shielded						
12 to 48VDC	3 Wire PNP	20.0mm	NO/NC	200mA	XS8C2A1PCM12	32J310
24 to 240VAC/DC	2 Wire	15.0mm	NO	200mA	XS7C2A1MAU20	32J303
24 to 240VAC/DC	2 Wire	20.0mm	NO	200mA	XS8C2A1MAU20	32J304
Cubic C2 Unshielded						
12 to 48VDC	3 Wire PNP	40.0mm	NO/NC	200mA	XS8C2A4PCM12	32J312
24 to 240VAC/DC	2 Wire	40.0mm	NO	200mA	XS8C2A4MAU20	32J305
12 to 24VDC	2 Wire Analog	25.0mm	4 to 20mA	20mA	XS9C2A2A2M12	32J318
12 to 24VDC	3 Wire Analog	25.0mm	4 to 20mA	10mA	XS9C2A2A1M12	32J317
Rectangular C4 Shielded						
12 to 48VDC	4 Wire PNP	20.0mm	NO/NC	200mA	XS8C4A1PCN12	32J314
24 to 240VAC/DC	2 Wire	15.0mm	NO/NC	300/200mA	XS7C4A1MPN12	32J306
24 to 240VAC/DC	2 Wire	20.0mm	NO/NC	300/200mA	XS8C4A1MPN12	32J308
Rectangular C4 Unshielded						
12 to 48VDC	4 Wire PNP	40.0mm	NO/NC	200mA	XS8C4A4PCN12	32J316
24 to 240VAC/DC	2 Wire	40.0mm	NO/NC	300/200mA	XS8C4A4MPN12	32J309
12 to 24VDC	2 Wire Analog	25.0mm	4 to 20mA	20mA	XS9C4A2A2N12	32J321
12 to 24VDC	3 Wire Analog	25.0mm	0 to 10V	10mA	XS9C4A2A1N12	32J319

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 60/80 psi Range: 20-100 psi Item No.	80/100 psi Range: 20-100 psi Item No.	95/125 psi Range: 40-150 psi Item No.	105/135 psi Range: 40-150 psi Item No.	120/150 psi Range: 40-150 psi Item No.	135/175 psi Range: 60-200 psi Item No.
(1) Port, ¼" FNPS, Series 9013FHG									
No	Auto/Off	1½	2	2PXL5	1V628	1V624	2PXJ1	2PXJ4	3AY91
¼" Compression	Auto/Off	1½	2	2PXL6	3TV98	3AY90	2PXJ2	2PXJ5	3AY92
No	None	1½	2	2PXL4	5B418	5B419	2PXH9	2FG80	—
¼" Compression	None	1½	2	2PXL7	5B417	2FG79	2PXJ3	2FG81	2FG90
No	Auto/Off	2	3	2PXK8	3AY93	2PXN4	2PXL9	2PXN7	2PXR1
¼" Compression	Auto/Off	2	3	2PXK9	—	2PXN5	2PXN1	—	—
No	None	2	3	2PXK7	2FG84	2PXN3	2PXL8	2FG87	2DC08
¼" Compression	None	2	3	2PXL1	2FG85	2PXN6	2PXN2	2FG88	2DC09
(1) Port, ¼" MNPT, Series 9013FHG									
¼" Compression	None	1½	2	2PXR5	2FG83 *	2PXK4	2PXK2	2PXK6	2PXH7
No	None	1½	2	2PXR4	2FG82 *	2PXK3	2PXK1	2PXK5	2FG91
No	None	2	3	2PXL3	2FG86	2PXP6	2PXP5	2PXP7	2PXH8
(4) Port, ¼" FNPS, Series 9013FHG									
¼" Compression	Auto/Off	1½	2	—	5A018	5A020	2PXJ6	2PXJ8	2PXP8
¼" Compression	None	1½	2	—	5A301	5A537	2PXJ7	2PXJ9	2PXP9
¼" Compression	Auto/Off	2	3	—	1V626	2PXP1	2PXN8	2PXP3	2PXR2
¼" Compression	None	2	3	—	2PXL2	2PXP2	2PXN9	2PXP4	2PXR3
Pressure Switch									
No	None	1½	2	—	—	—	—	—	2FG89

** Factory On/Off Setting = 70/100 psi, Range: 40-150 psi.*



No. 5B418

Pumptrol® Air Pressure Switches—Fixed Differential

- 2-pole, HP rated
- Diaphragm actuated
- Contacts open on pressure rise
- NEMA 1 enclosure

Control electrically driven air compressors. Unloader models feature a small valve that opens at shutoff, releasing air pressure from the compressor head. Temp. range: -22° to 257°F. UL Listed and CSA Certified.

Pumptrol® Air and Water Pressure Switches—Adjustable Differential

- 2-pole, HP rated
- Diaphragm actuated
- Contacts open on pressure rise
- NEMA 1 enclosure

Control electrically driven air compressors or pumps. Unloader models feature a small valve that opens at shutoff, releasing air pressure from the compressor head. Temp. range: -22° to 257°F. UL Listed and CSA Certified.



No. 2FH17

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 60/80 psi Item No.	75/100 psi Item No.	80/100 psi Item No.	100/125 psi Item No.	125/150 psi Item No.	140/175 psi Item No.	145/175 psi Item No.
(1) Port, ¼" FNPS, Series 9013GHG, Pressure Switch Range: 40 to 200 psi, Pressure Switch Differential 20 to 40 psi										
No	None	2	3	2FH17	6B438	6B441	2FH22	2FH26	2FH28	5B409
No	Auto/Off/On	2	3	2PXR6	6B440	6B443	2PXR7	2PXR8	2PXR9	2PXT2
¼" Compression	None	2	3	—	—	6B442	2FH23	—	2PXT1	5B408
(1) Port, ⅜" FNPS, Series 9013GHG, Pressure Switch Range: 40 to 200 psi, Pressure Switch Differential 20 to 40 psi										
No	None	2	3	2PXT3	2PXT6	2FH32	—	2PXU4	2PXU7	—
No	Auto/Off/On	2	3	2PXT4	2PXT7	2PXT9	2PXU2	2PXU5	2PXU8	—
¼" Compression	None	2	3	2PXT5	2PXT8	2PXU1	2PXU3	2PXU6	2PXU9	—

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 130/175 psi Item No.	145/175 psi Item No.	215/250 psi Item No.
(1) Port, ¼" FNPS, Series 9013GHG, Pressure Switch Range: 32 to 250 psi, Pressure Switch Differential 24 to 45 psi						
No	None	2	3	6B444	—	—
No	Auto/Off/On	2	3	2PXV1	—	2PXV2
¼" Compression	None	2	3	—	—	2PXV3

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 130/175 psi Item No.	145/175 psi Item No.	215/250 psi Item No.
(1) Port, ⅜" FNPS, Series 9013GHG, Pressure Switch Range: 32 to 250 psi, Pressure Switch Differential 24 to 45 psi						
No	None	2	3	2PXV4	1V632	2PXV8
No	Auto/Off/On	2	3	2PXV5	2PXV7	—
¼" Compression	None	2	3	—	1V634	2PXW1

Pumptrol® Water Pump Pressure Switches

- 1- and 2-pole, HP Rated
- ¼" female connection
- Diaphragm actuated
- NEMA 1 enclosure

Designed for direct control of electrically driven pumps. Can be used with motor starters to control higher horsepower motors. Low pressure cutoff switches operate at approximately 10 psi below the cut-in setting and will turn the pump off. Switches with a pulsation plug sense change over a longer interval and does not respond to spikes. Temp. range: -22° to 257°F. UL Listed and CSA Certified.



No. 1V630

Manual Switch Action	Pressure Switch Range	Pressure Switch Differential	Pressure Switch Contact Form	HP @ 1-Phase 120V	HP @ 1-Phase 240V	Series	FACTORY ON/OFF SETTING 20/40 psi Item No.	30/50 psi Item No.	40/60 psi Item No.	50/70 psi Item No.	60/80 psi Item No.
Standard Action (Open on Rise)											
None	5 to 65 psi	15 to 30 psi	DPST	1½	2	9013FSG	5B415	2FH02	2FH08	—	—
None	5 to 80 psi	15 to 30 psi	DPST	2	3	9013GSG	6B446	2FH38	2FH40	2PYD4	—
None	5 to 80 psi	20 to 30 psi	DPST	2	3	9013FYG	5B411	5B410	2PYA2	2PYA9	2FH15
None	10 to 80 psi	15 to 30 psi	DPST	1½	2	9013FSG	—	—	—	2PXZ3	2PXY8
Auto/Off	5 to 65 psi	15 to 30 psi	DPST	1½	2	9013FSG	2FG98	2FH05	2PXY6	—	—
Auto/Off	5 to 80 psi	15 to 30 psi	DPST	2	3	9013GSG	6B449	2PYC4	2PYC7	2PYD5	2PYC9
Auto/Off	5 to 80 psi	20 to 30 psi	DPST	2	3	9013FYG	2PXZ7	2PXZ9	2PYA3	2PYC1	2PYA6
Auto/Off	10 to 80 psi	15 to 30 psi	DPST	1½	2	9013FSG	—	—	—	2PXZ4	2PXY9
Standard Action (Open on Rise), With Low Pressure Cut-Off											
Auto/Off/Start	5 to 65 psi	15 to 30 psi	DPST	1½	2	9013FSG	5B414	2FH06	—	—	—
Auto/Off/Start	5 to 80 psi	20 to 30 psi	DPST	2	3	9013FYG	2PXZ8	2PYA1	2PYA4	2PYC2	2PYA7
Auto/Off/Start	10 to 80 psi	15 to 30 psi	DPST	1½	2	9013FSG	—	—	—	—	2PXZ1
Standard Action (Open on Rise), With Pulsation Plug											
None	5 to 65 psi	15 to 30 psi	DPST	1½	2	9013FSG	5B413	5B412	2PXY7	—	—
None	5 to 80 psi	15 to 30 psi	DPST	2	3	9013GSG	6B447	6B448	2PYC8	2PYD6	2PYD1
None	5 to 80 psi	20 to 30 psi	DPST	2	3	9013FYG	2DC10	2DC11	2PYA5	2PYC3	2PYA8



No. 5B340

Pressure Switch Range	Pressure Switch Differential	Pressure Switch Contact Form	HP @ 1-Phase 120V	HP @ 1-Phase 240V	Series	FACTORY ON/OFF SETTING 10/5 psi Item No.	22/16 psi Item No.	40/20 psi Item No.	50/30 psi Item No.	80/60 psi Item No.
Reverse Action (Close on Rise)										
4 to 45 psi	6 to 20 psi	SPST	1	1	9013FRG	2PXX8	2PXX4	2PXX6	—	—
4 to 45 psi	6 to 20 psi	DPST	1	1	9013FRG	6B452	2FG93	2PXW7	—	—
8 to 65 psi	15 to 30 psi	SPST	1	1	9013FRG	—	—	2PXW2	2PXW4	—
8 to 65 psi	15 to 30 psi	DPST	1	1	9013FRG	—	—	5B416	2PXX2	—
20 to 100 psi	20 to 30 psi	DPST	1	1	9013FRG	—	—	1V630	2PXY4	2PXY2
5 to 80 psi	15 to 30 psi	DPST	2	3	9013GSG	—	—	2PYC6	6B437	2PYD3
Reverse Action (Close on Rise), With Pulsation Plug										
5 to 80 psi	15 to 30 psi	DPST	2	3	9013GSG	—	—	2PYC5	2PYD7	2PYD2

Description	Mfr. Model	Item No.
Replacement Contact Kits		
For All FSG Series and FRG (20 to 100 psi range) Series Switches	9998PC241	5B340
For All FYG Series Switches	9998PC242	5B339
For All GSG Series Switches	9998PC205	3AY95

Description	Mfr. Model	Item No.
Replacement Unloaders		
9013 GHG Form X Only	9049A12	2FJ18
9013 FHG Form X Only	9049A56	2FJ24



No. 12T081



No. 12T084

Dayton® Water Pump Pressure Switches

- Diaphragm actuated
- Pressure range: 10 to 100 psi
- Differential pressure range: 15 to 50 psi
- 20/12A at 120/240V
- DPST
- ¼" FNPT
- NEMA 1 enclosure
- 3-yr. warranty

Rated 1½ HP at 1-phase, 120V; 2 HP at 1-phase, 230V. Temp. range: -22° to 250°F. Switches with low pressure cutoff will turn the pump off at approximately 10 psi below the cut-in setting. UL Listed and CSA Certified.

Manual Switch Action	Special Features	PRESSURE SWITCH FACTORY ON/OFF SETTING 20/40 psi Item No.	30/50 psi Item No.	40/60 psi Item No.
None	—	12T081	12T082	12T083
Auto/Off	—	12T087	12T088	12T089
Auto/Off/Reset	Low Pressure Cut-Off	12T084	12T085	12T086



MDR11 Series w/Unloader and Auto/Off Switch No. 3AFU8



MDR3 Series w/Unloader and Auto/Off Switch No. 3FWE3

Air Compressor Pressure Switches

For all global air compressor and water applications. Rotatable unloader valve simplifies retrofit onto compressors. Diaphragm actuated. For ¼ to ⅜" brass adapters, see pages 2793.

MDR11 SERIES

- DPST switch
- Rated 26A
- Temp. range: -22° to 257°F

UL Listed and CSA Certified.

MDR3 AND MDR3/OL SERIES

- 3PST Switch
- Rated 30A, 1-phase/24A, 3-phase
- Temp. range: -22° to 257°F

MDR-3/OL Series combines the function of a pressure switch and magnetic starter into 1 unit. Built-in overload protection. All are UL Listed, CSA and CE Certified.

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	RANGE: 20 to 105 psi Diff.: 20 to 45 psi Factory Preset 60/80 psi Item No.	80/100 psi Item No.	RANGE: 25 to 160 psi Diff.: 25 to 65 psi Factory Preset 100/125 psi Item No.	105/135 psi Item No.	120/150 psi Item No.	RANGE: 40 to 175 psi Diff.: 30 to 65 psi Factory Preset 140/175 psi Item No.	RANGE: 50 to 200 psi Diff.: 40 to 65 psi Factory Preset 160/200 psi Item No.
MDR11 Series, (1) Port, ¼" FNPT										
No	None	2	3	3AFU5	3EYN4	3EYP3	3EYR2	3EYT1	3EYT9	3FWC5
No	Auto/Off	2	3	3AFU6	3EYN5	3EYP4	3EYR3	3EYT2	3EYU1	3FWC6
¼" Compression	None	2	3	3AFU7	3EYN6	3EYP5	3EYR4	3EYT3	3EYU5	3FWC7
¼" Compression	Auto/Off	2	3	3AFU8	3EYN7	3EYP6	3EYR5	3EYT4	3EYU6	3FWC8
MDR11 Series, (4) Port, ¼" FNPT										
No	None	2	3	3AFU9	3EYN8	3EYP7	3EYR6	3EYT5	3EYU7	3FWC9
No	Auto/Off	2	3	3EYN1	3EYN9	3EYP8	3EYR7	3EYT6	3FWC2	3FWD1
¼" Compression	None	2	3	3EYN2	3EYP1	3EYP9	3EYR8	3EYT7	3FWC3	3FWD2
¼" Compression	Auto/Off	2	3	3EYN3	3EYP2	3EYR1	3EYR9	3EYT8	3FWC4	3FWD3

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	RANGE: 45 to 160 psi Diff.: 15 to 70 psi Factory Preset 60/80 psi Item No.	80/100 psi Item No.	100/125 psi Item No.	120/150 psi Item No.	RANGE: 60 to 232 psi Diff.: 30 to 110 psi Factory Preset 140/175 psi Item No.	160/200 psi Item No.	RANGE: 40 to 360 psi Diff.: 40 to 105 psi Factory Preset 215/250 psi Item No.	310/360 psi Item No.
MDR3 Series, (1) Port, ⅜" FNPT													
No	None	2	5	7½	15	3FWE1	3FWE7	3FWF4	3FWG1	3FWG7	3FWH4	3FWJ1	3FWJ7
¼" Compression	None	2	5	7½	15	3FWE2	3FWE8	3FWF5	3FWG2	3FWG8	3FWH5	3FWJ2	3FWJ8
¼" Compression	Auto/Off	2	5	7½	15	3FWE3	3FWE9	3FWF6	3FWG3	3FWG9	3FWH6	3FWJ3	3FWJ9
MDR3 Series, (4) Port, (1) ⅜" FNPT, (3) ¼" FNPT													
No	None	2	5	7½	15	3FWE4	3FWF1	3FWF7	3FWG4	3FWH1	3FWH7	3FWJ4	3FWK1
¼" Compression	None	2	5	7½	15	3FWE5	3FWF2	3FWF8	3FWG5	3FWH2	3FWH8	3FWJ5	3FWK2
¼" Compression	Auto/Off	2	5	7½	15	3FWE6	3FWF3	3FWF9	3FWG6	3FWH3	3FWH9	3FWJ6	3FWK3

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Overload Protection	RANGE: 45 to 160 psi Diff.: 15 to 70 psi Factory Preset 80/100 psi Item No.	100/125 psi Item No.	120/150 psi Item No.	RANGE: 60 to 232 psi Diff.: 30 to 110 psi Factory Preset 140/175 psi Item No.	160/200 psi Item No.	RANGE: 40 to 360 psi Diff.: 40 to 105 psi Factory Preset 215/250 psi Item No.	310/360 psi Item No.
MDR3/OL Series with Oveload Protection, (4) Port, (1) ⅜" FNPT, (3) ¼" FNPT													
¼" Compression	Auto/Off/Reset	⅛	⅓	1	2	2.5 to 4A	3FWK4	3FWL2	3FWL9	3AFZ7	3FWN5	3FWP3	3FWR1
¼" Compression	Auto/Off/Reset	¼	½	1½	3	4 to 6.3A	3FWK5	3FWL3	3AFZ1	3AFZ8	3FWN6	3FWP4	3FWR2
¼" Compression	Auto/Off/Reset	½	1½	3	5	6.3 to 10A	3FWK6	3FWL4	3AFZ2	3AFZ9	3FWN7	3FWP5	3FWR3
¼" Compression	Auto/Off/Reset	1	2	5	10	10 to 16A	3FWK7	3FWL5	3AFZ3	3FWN1	3FWN8	3FWP6	3FWR4
¼" Compression	Auto/Off/Reset	1½	3	—	—	16 to 20A	3FWK8	3FWL6	3AFZ4	3FWN2	3FWN9	3FWP7	3FWR5
¼" Compression	Auto/Off/Reset	2	—	7½	15	20 to 24A	3FWK9	3FWL7	3AFZ5	3FWN3	3FWP1	3FWP8	3FWR6
¼" Compression	Auto/Off/Reset	2	5	—	—	22 to 30A	3FWL1	3FWL8	3AFZ6	3FWN4	3FWP2	3FWP9	3FWR7

Description	120VAC Item No.	208VAC Item No.	240VAC Item No.	277VAC Item No.	480VAC Item No.	600VAC Item No.
MDR3 Series Auxiliary Attachments						
Low Voltage Protection (Trips at <70% Rated Voltage)	3FWR8	3FWT1	3FWT3	3FWT5	3FWT7	3FWT9
Shunt Trip (Trips when Rated Voltage is Supplied)	3FWR9	3FWT2	3FWT4	3FWT6	3FWT8	3FWU1

Description	FOR MDR11 SERIES Item No.	FOR MDR3 AND MDR3/ OL SERIES Item No.
Accessories		
Quick-Connect Unloader Valve (For ¼" Plastic Tubing Only)	3FWD4	3FWU2
Delayed Unloader Valve for Compressors with Difficulty Starting, ¼" Compression Fitting	3FWD5	3FWU3
Standard Replacement Unloader Valve, ¼" Compression Fitting	3FWD7	3FWU4
Replacement Cover, Standard	3FWD8	3FWU5
Replacement Cover, with Auto/Off Feature	3FWD9	3FWU6
Quick-Connect Electrical Terminal, ¼", Pkg. of 50	3FWD6	—
Compression Nut for 6mm Unloader Fitting, Pkg. of 10	3FWU7	3FWU7
Pipe Plugs, ¼" NPT (For Sealing Unused Manifold Ports), Pkg. of 10	3FWU8	3FWU8
Pipe Nipple, 2 x ¼" NPT (For Mounting Switch), Pkg. of 5	3FWU9	3FWU9

Description	Item No.
MDR3 Series Contact Blocks	
24 Amps, Standard Replacement	12T090
24 Amps, Standard Replacement with Auto/Off	12T091
MDR3 Series Thermal Overload Block	
0.63 to 1 Amps	12T092
1 to 1.6 Amps	12T093
1.6 to 2.5 Amps	12T094
2.5 to 4 Amps	12T095
4 to 6.3 Amps	12T096
6.3 to 10 Amps	12T097
10 to 16 Amps	12T098
16 to 20 Amps	12T099
20 to 24 Amps	12T101
30 Amps, 2-Pole	12T102

SQUARE D by Schneider Electric

Machine Tool, Dual Stage, and Differential Pressure Switches

- ¼" NPT female inlet, except male No. 3FJZ8
- Rated 10A
- Temp. range: -10° to 185°F

Can be applied to a wide variety of pneumatic and hydraulic machine and process applications to control or monitor system pressure and protect equipment. UL Listed and CSA Certified.



No. 6B450



No. 1V620

Range	Differential*	Actuation Type	NEMA Rating	Contact Form	Mfr. Model	Item No.	
Pressure Switches							
1.5 to 75 psi	4.5 to 15 psi	Diaphragm	7, 9	SPDT	9012GAR4	**3FJZ6**	
3 to 150 psi	9 to 35 psi	Diaphragm	7, 9	SPDT	9012GAR5	**3FJZ7**	
0.2 to 10 psi	0.6 to 2 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW1	**6B450**	
0.2 to 10 psi	0.6 to 2 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW1Z	**3FJZ8**	†
1 to 40 psi	1.6 to 8 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW2	**5B427**	
1.5 to 75 psi	3.5 to 15 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW4	**5B426**	
3 to 150 psi	6 to 30 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW5	**5B425**	
3 to 150 psi	6 to 30 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW5G17	**3FKA1**	‡
3 to 150 psi	6 to 30 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW5G18	**1V620**	**
3 to 150 psi	6 to 30 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW5K1	**3FKA2**	#
5 to 250 psi	10 to 49 psi	Diaphragm	4, 4X, 13	SPDT	9012GAW6	**5B423**	
1.5 to 75 psi	3.5 to 15 psi	Diaphragm	4, 4X, 13	DPDT	9012GAW24	**3FJZ9**	
3 to 150 psi	6 to 30 psi	Diaphragm	4, 4X, 13	DPDT	9012GAW25	**3KL86**	
13 to 425 psi	16 to 90 psi	Diaphragm	4, 4X, 13	SPDT	9012GBW1	**5B422**	
20 to 675 psi	27 to 130 psi	Diaphragm	4, 4X, 13	SPDT	9012GBW2	**3FKA3**	
20 to 1000 psi	59 to 200 psi	Piston	4, 4X, 13	SPDT	9012GCW1	**5B421**	
20 to 1000 psi	59 to 200 psi	Piston	4, 4X, 13	SPDT	9012GCW1G18	**1V622**	**
90 to 2900 psi	170 to 560 psi	Piston	4, 4X, 13	SPDT	9012GCW2	**5B420**	
170 to 5600 psi	289 to 1260 psi	Piston	4, 4X, 13	SPDT	9012GCW3	**3FKA4**	
0.2 to 10 psi	0.6 to ±0.1 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW1	**3FKA5**	
1 to 40 psi	1.6 to 0.4 psi	Piston	4, 4X, 13	SPDT	9012GDW2	**3FKA6**	
1.5 to 75 psi	3 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW4	**3FKA7**	
3 to 150 psi	6 to 0.8 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW5	**3FKA8**	
3 to 150 psi	6 to 0.8 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW5E3	**3FKA9**	††
3 to 150 psi	6 to 0.8 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW5G22	**3FKC1**	‡‡
3 to 150 psi	6 to 0.8 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW5K1	**3FKC2**	#
5 to 250 psi	10 to 1.5 psi	Diaphragm	4, 4X, 13	SPDT	9012GDW6	**3FKC3**	
20 to 1000 psi	59 psi	Diaphragm	4, 4X, 13	SPDT	9012GFW1	**3FKC4**	
90 to 2900 psi	170 to 15 psi	Diaphragm	4, 4X, 13	SPDT	9012GFW2	**3FKC5**	
90 to 2900 psi	170 to 15 psi	Diaphragm	4, 4X, 13	DPDT	9012GFW22	**3FKC6**	
Dual Stage Pressure Switches							
1.5 to 75 psi	6 to 30 psi	Diaphragm	4, 4X, 13	SPDT	9012GKW4	**3FKC9**	
3 to 150 psi	12 to 75 psi	Diaphragm	4, 4X, 13	SPDT	9012GKW5	**3FKD1**	
5 to 250 psi	22 to 110 psi	Diaphragm	4, 4X, 13	SPDT	9012GKW6	**3FKD2**	
Differential Pressure Switches							
0 to 175 psi	0.5 to 36 psi	Diaphragm	4, 4X, 13	SPDT	9012GGW4	**3FKC8**	
0 to 175 psi	0.5 to 36 psi	Diaphragm	4, 4X, 13	DPDT	9012GGW24	**3FKC7**	

Description	For Use With	Mfr. Model	Item No.
Repair Kits			
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GB, GE, GH Series Pressure Switches	9998PC178	**3CTT3**
Diaphragm Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GN Series Pressure Switches	9998PC265	**3CTT4**
Diaphragm Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC267	**3CTT5**
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC268	**3CTT6**
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC269	**3CTT7**
Piston Assembly, Stainless Steel Piston, Fluorocarbon (VITON) Diaphragm and O Ring	Square D 9012GC, GF, GJ, GQ Series Pressure Switches	9998PC271	**3CTT8**
Piston Assembly, Stainless Steel Piston, Fluorocarbon (VITON) Diaphragm and O Ring	Square D 9012GC, GF, GJ, GQ Series Pressure Switches	9998PC273	**3CTT9**
DPDT Snap Switch	Square D 9012GA, GB, GC, GD, GE, GF, GG, GJ Series Pressure Switches	9998PC314	**3CTU1**

**** Differential adds to range setting and determines operating point on rising pressure. † ¼"-18 NPT external thread (male). ‡ With 120V neon pilot light. # External range adjustment slotted for a screwdriver. ** With 120VAC/DC red neon pilot light. †† Locks on rising pressure; manual reset only. ‡‡ With 24VDC LED pilot light.***

Condor

Pressure Control Switches

- NEMA B300 (5A/300V)
- 6A, 12VDC; 15A/250VAC resistive
- ½ HP at 120/240V
- Temp. range: -40° to 160°F
- ¼" FNPT
- IP54 enclosure (CE)
- NEMA 1 (UL)

Feature a clear cover with visible pressure scale. UL and C-UL Listed. CE Certified.



No. 12T103

Range	Factory On/ Off Setting	Differential	Mfr. Model	Item No.
0.6 to 29 psi	8/20 psi	1 to 28 psi	MDR-F 2H-S UL	**12T103**
1 to 58 psi	15/40 psi	2.2 to 54 psi	MDR-F 4H-S UL	**12T104**
2.9 to 116 psi	30/60 psi	4.4 to 112 psi	MDR-F 8H-S UL	**12T105**
4.4 to 145 psi	60/75 psi	5.8 to 138 psi	MDR-F 10H-S UL	**12T106**
5.8 to 232 psi	80/160 psi	8.7 to 225 psi	MDR-F 16H-S UL	**12T107**
11.6 to 464 psi	145/290 psi	17.4 to 450 psi	MDR-F 32H-S UL	**12T108**
58 to 870 psi	290/580 psi	58 to 810 psi	MDR-F 60HH-S UL	**12T109**
116 to 1740 psi	580/1160 psi	116 to 1610 psi	MDR-F 120HH-S UL	**12T110**
203 to 3625 psi	1450/1900 psi	174 to 3450 psi	MDR-F 250HH-S UL	**12T111**

ASHCROFT

Harsh Environment Pressure Switches



No. 5LB44

- ¼" FNPT inlet port
- Stainless steel pressure connection
- Viton® actuator seal
- Temp. range: 20° to 300°F

For harsh environments using pumps, compressors, hydraulic systems, and HVAC equipment. Watertight enclosure meets NEMA 3, 4, 4X, and 13, and IP66. Fixed deadband. Switch rated 15A at 125/250VAC; 0.5A at 125VDC.

Range	Contact Form	Mfr. Model	Item No.
1.5 to 15 psi	SPDT	B424VXCYLM15	**5LB41**
3 to 30 psi	SPDT	B424VXCYLM30	**5LB42**
6 to 60 psi	SPDT	B424VXCYLM60	**5LB43**
10 to 100 psi	SPDT	B424VXCYLM100	**5LB44**
20 to 200 psi	SPDT	B424VXCYLM200	**5LB45**
40 to 400 psi	SPDT	B424VXCYLM400	**5LB46**
60 to 600 psi	SPDT	B424VXCYLM600	**36K013**
100 to 1000 psi	SPDT	B424BXCYLM1000	**36K014**
300 to 3000 psi	SPDT	B424BXCYLM3000	**36K015**

SQUARE D by Schneider Electric

Industrial Pressure Switches



No. 1A352

- SPDT switch
- ¼" female inlet, except male No. 3FJY9
- Rated 10A
- Ambient temp. range: -10° to 185°F
- Media temp. range: -40° to 250°F

Designed to control or monitor pressure using air, oil, water, or other compatible fluids. Easily adjustable range and differential. Buna N diaphragms. UL Listed and CSA Certified.

Range	Differential	Actuation Type	NEMA Rating	Mfr. Model	Item No.
0.2 to 10 psi	0.4 to 0.9 psi	Diaphragm	1	9012GNG1	**3FJY6**
1 to 40 psi	1.2 to 3.6 psi	Diaphragm	1	9012GNG3	**3FJY7**
1.5 to 75 psi	2.2 to 6.6 psi	Diaphragm	1	9012GNG4	**3FJY8**
1.5 to 75 psi	2.2 to 6.6 psi	Diaphragm	1	9012GNG4Z	**3FJY9**
3 to 150 psi	4.2 to 13.2 psi	Diaphragm	1	9012GNG5	**1A352**
5 to 250 psi	7.4 to 33.6 psi	Diaphragm	1	9012GNG6	**1A353**
5 to 250 psi	7.4 to 33.6 psi	Diaphragm	1	9012GNO6	**3FJZ1**
20 to 675 psi	19 to 58.8 psi	Diaphragm	1	9012GPG2	**3FKD3**
90 to 2900 psi	141 to 455 psi	Piston	1	9012GQG2	**3FJZ2**
170 to 5600 psi	200 to 950 psi	Piston	1	9012GQG3	**3FJZ3**
3 to 150 psi	4.2 psi	Diaphragm	1	9012GRG5	**3FJZ4**
1.5 to 75 psi	2.2 to 0.4 psi	Diaphragm	1	9012GRO4	**3FJZ5**



No. 23Z333

Honeywell

Pressure Switches

- 5000 series
- ⅛-27" MNPT Port
- Temp. range: -40° to 250°F
- Glass reinforced polyester enclosure
- Screw terminal connection

Range	Factory On/ Off Setting	Contact Form	NEMA Rating	Mfr. Model	Item No.
1.1 to 3 psi	1.5/3 psi	SPST-NO	Not Rated	76051	**23Z327**
	1.5/3 psi	SPST-NC	Not Rated	76061	**23Z333**
3.1 to 7 psi	3.1/7 psi	SPST-NO	Not Rated	76575	**23Z336**
	3.5/7 psi	SPST-NC	Not Rated	76577	**23Z337**
8 to 13 psi	10 psi	SPST-NO	Not Rated	76576	**23Z343**
	8/13 psi	SPST-NC	Not Rated	76578	**23Z344**
	8/13 psi	SPDT-NO/NC	Not Rated	76580	**23Z345**
14 to 24 psi	14/23 psi	SPST-NO	Not Rated	76052	**23Z328**
	15/24 psi	SPDT-NO/NC	Not Rated	76072	**23Z341**
25 to 50 psi	35 psi	SPST-NO	Not Rated	76053	**23Z329**
51 to 90 psi	60/90 psi	SPST-NO	Not Rated	76054	**23Z330**
	60 psi	SPST-NC	Not Rated	76064	**23Z335**
	60 psi	SPDT-NO/NC	Not Rated	76074	**23Z342**
91 to 150 psi	100 psi	SPST-NO	Not Rated	76055	**23Z346**
Pressure Switch Boot Direct Action Blade Contact				79380	**23Z347**

ifm efector

Pressure Transmitters



No. 35T575

- ¼" NPT port

Provide high-burst and overpressure protection and exceptional reliability. Feature stainless steel housing. 0.15% of full range repeatability. Models available for vacuum, pneumatic, hydraulic, and hydrostatic level applications.

Range	9.6 to 32VDC, 4 to 20mA Output Mfr. Model	Item No.	16 to 32VDC, 0 to 10VDC Output Mfr. Model	Item No.
¼" MNPT				
-14.5 psi to 0 psi	PX3229	**35T575**	PX9119	**35T587**
0 to 100 "H2O	PX3228	**35T576**	PX9118	**35T588**
0 to 15 psi	PX3227	**35T577**	PX9117	**35T589**
0 to 30 psi	PX3226	**35T578**	PX9116	**35T590**
0 to 100 psi	PX3224	**35T579**	PX9114	**35T591**
0 to 150 psi	PX3244	**35T580**	—	—
0 to 200 psi	PX3234	**35T581**	PX9134	**35T592**
0 to 250 psi	PX3233	**35T582**	—	—
0 to 500 psi	PX3223	**35T583**	—	—
0 to 1000 psi	PX3222	**35T584**	PX9112	**35T593**
0 to 3000 psi	PX3111	**35T585**	PX9111	**35T594**
0 to 5000 psi	PX3220	**35T586**	PX9110	**35T595**

Telemecanique Sensors

Pressure Transmitters



No. 25UX05

- ¼" 18 NPT
- Temp. range: -22° to 185°F

These compact transmitters feature a thin film technology that reduces noise levels, temperature coefficients, and helps to achieve a high level of accuracy. Compatible with most types of fluids, and can be mounted in the most confined spaces.

Range	Power Required	Output	Wetted Materials	Item No.
0 to 150 psi	12 to 24VDC	4 to 20mA DC	17-4PH Stainless Steel, 304 Stainless Steel	**25UX05**
0 to 1000 psi	12 to 24VDC	4 to 20mA DC	17-4PH Stainless Steel, 304 Stainless Steel	**25UX09**
0 to 2000 psi	14 to 30VDC	0 to 10VDC	17-4PH Stainless Steel, 304 Stainless Steel	**25UX20**
0 to 3000 psi	14 to 30VDC	0 to 10VDC	17-4PH Stainless Steel, 304 Stainless Steel	**25UX21**

Float Switches

- Rated up to 5 HP at 230VAC
- 2-pole
- Rated 10A, 600VAC
- Ambient temp. range: -22° to 220°F
- Conduit entry: NEMA 1, ½"; NEMA 4, 7, 9, ¾"

SQUARE D by Schneider Electric

Designed to control small motor loads directly. HP rating: 2 HP at 115V, 3 HP at 230V 1-phase, 5 HP at 230V 3-phase. Side-mount switches include external pointer, nameplate, rod, and float. Class 9036 switches are single-lever operated.

Description	NEMA 1 Close On Rise Mfr. Model	Item No.	NEMA 1 Open On Rise Mfr. Model	Item No.	NEMA 4 Close On Rise Mfr. Model	Item No.	NEMA 7, 9 Close On Rise Mfr. Model	Item No.
Class 9036 Open Tank Float Switches								
Top Mount	9036DG2	**2FH59**	9036DG2R	**2FH61**	9036DW31	**2FH65**	9036DR31	**2FH62**
Top Mount, Compensating Spring	9036DG2C	**2FH60**	9036DG2CR	**3DZR9**	9036DW31C	**3DZU1**	9036DR31C	**3DZT9**
Top Mount, Flange Mount	9036DG2S1	**2FP39**	—	—	—	—	—	—
High Force, Top Mount	9036GG2	**2FH68**	9036GG2R	**2FH70**	9036GW1	**2FH72**	9036GR1	**3DZU6**
High Force, Top Mount, Compensating Spring	9036GG2C	**2FH69**	—	—	—	—	—	—
Class 9038 Open Tank Alternators								
Single Lever	9038AG1	**2FJ01**	—	—	9038AW1	**2FJ05**	9038AR1	**3DZY1**
Single Lever, Compensating Spring	9038AG1C	**3DZX5**	—	—	—	—	—	—
Class 9038 Closed Tank Alternators								
Top Mount, 2⅝" Hinge Post, Min. Water Level	9038DG7	**2FJ15**	—	—	—	—	—	—
Top Mount, 2⅝" Hinge Post, Max. Water Level	9038DG8	**2FJ16**	—	—	9038DW8	**3EAA1**	9038DR8	**3DZZ9**
Top Mount, 4 1⁄16" Hinge Post, Min. Water Level	9038DG9	**2FJ17**	—	—	—	—	—	—
Class 9037 Closed Tank Float Switches								
Top Mount, 2⅝" Hinge Post, Min. Water Level	9037EG8	**2FH77**	9037EG8R1F1	**3DZV3**	—	—	—	—
Top Mount, 4 1⁄16" Hinge Post, Min. Water Level	9037EG10	**3DZV2**	—	—	—	—	—	—
Top Mount, 2⅝" Hinge Post, Max. Water Level	9037EG9	**2FH78**	—	—	9037EW9	**3DZV4**	—	—
Accessories								
Float Kit, 7" Tapped 304SS Float, 5' Brass Rod, 2 Stops							9049A6	**2FJ26**
Float Kit, 7" Center Hole 304SS Float, 5' Brass Rod, 4 Stops							9049A6C	**3EAA5**
Float Kit, 7" Center Hole 316SS Float, 5' SS Rod, 4 Stops							9049A6CS	**2FJ28**
Float Kit, 7" Center Hole 316SS Float, 5' Brass Rod, 2 Stops							9049A6S	**3EAA6**



No. 2FH59

Float Rod Angle	Min. Water Level Adjustment	Max. Water Level Adjustment	NEMA 1 Close On Rise Mfr. Model	Item No.	NEMA 1 Open On Rise Mfr. Model	Item No.	NEMA 4 Close On Rise Mfr. Model	Item No.
Class 9037 Closed Tank Float Switches, Right Float Position								
45°	2	5	9037HG33	**2FH90**	9037HG33R	**2FH91**	9037HW33	**2FH98**
90°	2	5	9037HG35	**2FH93**	—	—	9037HW35	**3DZX4**
90°	2	7	9037HG37	**2FH96**	—	—	—	—
90°	2	11½	9037HG31	**2FH85**	9037HG31R	**3DZV8**	—	—
Class 9038 Closed Tank Alternators, Right Float Position								
90°	6½	13	9038CG31	**2FJ08**	—	—	9038CW31	**3DZZ5**
90°	4	7¾	9038CG33	**2FJ10**	—	—	9038CW33	**3DZZ6**
Class 9037 Closed Tank Float Switches, Left Float Position								
45°	2	5	9037HG34	**2FH92**	9037HG34R	**3DZW5**	9037HW34	**3DZX3**
90°	2	5	9037HG36	**2FH94**	—	—	—	—
90°	2	7	9037HG38	**3DZX1**	—	—	—	—
90°	2	8¼	9037HG30	**2FH83**	9037HG30R	**3DZV6**	9037HW30	**3DZX2**
90°	2	11½	9037HG32	**2FH86**	—	—	—	—
Class 9038 Closed Tank Alternators, Left Float Position								
90°	6½	13	9038CG32	**2FJ09**	—	—	9038CW32	**2FJ14**
90°	4	7¾	9038CG34	**3DZY8**	—	—	—	—
90°	4¾	9¼	9038CG36	**2FJ11**	—	—	—	—
Accessories								
Rod, SS, 1¾" Long							9049ER1	**3EAA7**
Rod, SS, 12¼" Long							9049ER12	**3EAA8**
Rod, SS, 3¼" Long							9049ER3	**3EAA9**
Rod, SS, 5¼" Long							9049ER5	**3EAC1**
Float 2.5" dia., Length 7", 304SS							9049HF3	**3EAC3**
Float 3.62" dia., Length 4½", 304SS							9049EF1	**2FJ35**



No. 2FH90

Vacuum Switches

- Diaphragm actuated
- Rated 10A, 600VAC
- Ambient temp. range: -10° to 185°F
- Media temp. range: -40° to 250°F

Monitor and control vacuum conditions in sensitive control applications. UL Listed, CSA Certified. GAW series is CE Certified.

SQUARE D by Schneider Electric

SERIES GVG

Designed as companions to Class 9036 and Class 9037 Type GG float switches commonly used on vacuum heating pumps. HP rating: 2 HP at 110VAC, 3 HP at 220VAC, 5 HP at 440-550VAC.



GAW Series



GVG Series

Range	Differential	Port Type	Features	Contact Form	Mfr. Model	Item No.
Series 9013GAW						
0 to 25"Hg	5 to 20"Hg	1-Port ¼-18" FNPT	—	SPDT	9016GAW2	**2FH46**
0 to 28.3"Hg	0.8 to 9"Hg	1-Port ¼-18" FNPT	—	DPDT	9016GAW21	**2FH47**
0 to 28.3"Hg	1 to 9"Hg	1-Port ¼-18" FNPT	Mounting Feet	DPDT	9016GAW21F	**3HAM1**
0 to 28.7"Hg	0.8 to 9"Hg	1-Port ¼-18" FNPT	—	SPDT	9016GAW1	**2FH45**
0 to 28.7"Hg	0.8 to 9"Hg	1-Port ¼-18" FNPT	Mounting Feet	SPDT	9016GAW1F	**3HAL7**
0 to 28.7"Hg	0.8 to 9"Hg	1-Port ¼-18" FNPT, 1-Port ½-14" MNPT	½" - 14 NPT external, ¼" - 18 NPT internal	SPDT	9016GAW1Z16	**3HAL9**
Series 9013GVG						
0 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	—	DPST	9016GVG1J09	**2FH48**
0 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	—	DPST	9016GVG1J10	**2FP36**
0 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	—	DPST	9016GVG1J13	**2FP38**
5 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	3 Way Lever, Namplate Marked: Float Only, Vacuum and Float, Continuous	DPST	9016GVG1J09E	**3HAM3**
5 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	With Mounting Bracket, 3 Way Lever, Marked: Float Only, Vacuum and Float, Continuous	DPST	9016GVG1J09EF	**3HAM4**
5 to 25"Hg	5 to 10"Hg	2-Port ¼-18" MNPT	¼" male pipe thread on pressure connection	DPST	9016GVG1J09Z	**3HAM5**
5 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	With Mounting Bracket	DPST	9016GVG1J10F	**3HAM6**
5 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	—	DPST	9016GVG1J12	**3HAM7**
5 to 25"Hg	5 to 10"Hg	1-Port ¼-18" FNPS	3 Way Lever, Namplate Marked: Float Only, Vacuum and Float, Continuous	DPST	9016GVG1J13E	**3HAM8**

Screw Cover Pull Boxes

Suitable for use as a junction or pull box in commercial and industrial applications. UL Listed and CSA Certified.

NEMA 1

Feature mounting holes on back of box. Cover design allows easy removal without extracting cover screws.

NEMA 3R

Provide protection in outdoor applications against rain, sleet, and snow, or indoors against dripping water. Use as wiring box or junction box. Feature slip-on cover that is securely fastened with screws. Drip shield top and smooth seamless sides and front.



NEMA 1
Galvanized
No. 6JYU7



NEMA 3R
Painted
No. 1ZHH6

			NO KNOCKOUTS				WITH KNOCKOUTS			
			Painted		Galvanized		Painted		Galvanized	
H	W	D	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.
NEMA 1										
8⅛"	8⅛"	6"	1ZHL2	—	—	—	—	—	—	—
4.00"	4.00"	3.00"	—	—	—	—	—	—	—	32FG37
4.00"	4.00"	4.00"	1ZHK7	32FG35	6JYU7	32FG34	4KP26	32FG32	6JZA5	32FG33
6.00"	4.00"	4.00"	4DMU2	32FG39	6JYX9	32FG38	4DMU1	—	6JYX8	—
6.00"	6.00"	3.00"	—	—	—	—	—	32FG36	—	—
6.00"	6.00"	4.00"	1ZHK8	32FG43	6JYU8	32FG42	4KP27	32FG40	6JZA6	32FG41
6.00"	6.00"	6.00"	4DMU3	32FG47	6JYY0	32FG46	1ZHK9	32FG44	6JYU9	32FG45
8.00"	6.00"	4.00"	4DMU6	32FG50	6JYY3	—	4DMU4	32FG48	6JYY1	32FG49
8.00"	6.00"	6.00"	4DMU7	32FG53	6JYY4	32FG52	4DMU5	32FG51	6JYY2	—
8.00"	8.00"	4.00"	1ZHL1	32FG57	6JYV0	32FG56	4KP28	32FG54	6JZA7	32FG55
8.00"	8.00"	6.00"	—	32FG61	6JYV1	32FG60	4KP29	32FG58	6JZA8	32FG59
8.00"	8.00"	8.00"	4DMT6	32FG64	6JYX6	32FG63	4DMT1	32FG62	6JYX1	—
10.00"	8.00"	4.00"	4DMU8	32FG67	6JYY5	32FG66	4DMR6	32FH41	6JYW7	32FG65
10.00"	8.00"	6.00"	4DMU9	32FG71	6JYY6	32FG70	4DMR9	32FG68	6JYX0	32FG69
10.00"	10.00"	4.00"	1ZHL3	32FG75	6JYV2	32FG74	4KP30	32FG72	6JZA9	32FG73
10.00"	10.00"	6.00"	1ZHL4	32FG79	6JYV3	32FG78	4KP31	32FG76	6JZC0	32FG77
12.00"	8.00"	4.00"	—	—	—	—	—	32FH42	—	—
12.00"	10.00"	4.00"	4DMV2	—	6JYY8	32FG82	4DMR7	32FG80	6JYW8	32FG81
12.00"	10.00"	6.00"	4DMV3	32FG85	6JYY9	32FG84	4DMV1	—	6JYY7	32FG83
12.00"	12.00"	4.00"	1ZHL5	32FG89	6JYV4	32FG88	4KP32	32FG86	6JZC1	32FG87
12.00"	12.00"	6.00"	1ZHL6	32FG93	6JYV5	32FG92	4KP33	32FG90	6JZC2	32FG91
12.00"	12.00"	8.00"	4DMV5	32FG97	6JYZ1	32FG96	4DMV4	32FG94	6JYZ0	32FG95
15.00"	12.00"	4.00"	4DMV8	—	6JYZ4	—	4DMV6	—	6JYZ2	—
15.00"	12.00"	6.00"	4DMV9	—	6JYZ5	—	4DMV7	—	6JYZ3	—
15.00"	15.00"	4.00"	4DMT3	32FH06	6JYX3	32FH05	4DMR8	—	6JYW9	—
15.00"	15.00"	6.00"	1ZHL8	—	6JYV7	—	1ZHL7	—	6JYV6	—
16.00"	12.00"	4.00"	—	32FH10	—	32FG99	—	32FH43	—	32FG98
16.00"	12.00"	6.00"	—	32FH04	—	32FH03	—	32FH01	—	32FH02
16.00"	15.00"	6.00"	—	—	—	—	—	—	—	32FH08
16.00"	16.00"	4.00"	6HYF8	—	6HYG0	—	6HYF7	—	6HYF9	—
16.00"	16.00"	6.00"	—	32FH44	—	32FH09	—	32FH07	—	—
18.00"	12.00"	4.00"	—	—	—	—	—	32FH45	—	—
18.00"	12.00"	6.00"	—	32FH47	—	—	—	32FH46	—	—
18.00"	18.00"	4.00"	1ZHN1	32FH13	6JYV9	32FH59	1ZHL9	32FH11	6JYV8	32FH12
18.00"	18.00"	6.00"	1ZHN3	32FH17	6JYW1	32FH16	1ZHN2	32FH14	6JYW0	32FH15
18.00"	18.00"	8.00"	4DMW2	32FH20	6JYZ7	32FH19	4DMW1	—	6JYZ6	—
18.00"	18.00"	10.00"	—	—	—	—	—	32FH18	—	—
24.00"	12.00"	4.00"	—	32FH22	—	—	—	—	—	—
24.00"	18.00"	4.00"	4DMW6	—	6JZA1	—	4DMW3	—	6JYZ8	—
24.00"	18.00"	6.00"	4DMW7	32FH24	6JZA2	—	4DMW4	32FH48	6JYZ9	32FH23
24.00"	18.00"	8.00"	4DMW8	—	6JZA3	32FH26	4DMW5	32FH25	6JZA0	—
24.00"	20.00"	8.00"	—	32FH32	—	—	—	—	—	—
24.00"	24.00"	4.00"	4DMT4	32FH28	6JYX4	32FH27	—	32FH21	—	—
24.00"	24.00"	6.00"	1ZHN5	32FH30	6JYW3	32FH29	1ZHN4	32FH51	6JYW2	—
24.00"	24.00"	8.00"	1ZHN7	32FH52	6JYW5	32FH61	1ZHN6	32FH31	6JYW4	—
24.00"	24.00"	10.00"	—	32FH49	—	—	—	—	—	—
24.00"	24.00"	12.00"	—	32FH50	—	32FH60	—	—	—	—
30.00"	24.00"	6.00"	4DMT5	32FH35	6JYX5	32FH34	4DMW9	32FH33	6JZA4	—
30.00"	24.00"	8.00"	4DMT7	32FH37	6JYX7	32FH36	4DMT2	—	6JYX2	—
30.00"	30.00"	8.00"	1ZHN8	32FH54	6JYW6	32FH38	—	—	—	—
30.00"	30.00"	12.00"	—	32FH53	—	—	—	—	—	—
36.00"	24.00"	8.00"	—	32FH39	—	—	—	—	—	—
36.00"	36.00"	6.00"	—	32FH56	—	—	—	—	—	—
36.00"	36.00"	8.00"	—	32FH57	—	32FH63	—	—	—	—
36.00"	36.00"	12.00"	—	32FH55	—	32FH62	—	—	—	—
48.00"	48.00"	12.00"	—	32FH58	—	—	—	—	—	—
NEMA 3R										
4.00"	4.00"	4.00"	—	—	6HYG1	—	1ZHH5	32FH66	6JZC3	32FG03
6.00"	4.00"	4.00"	—	—	6HYG2	—	3A909	—	6JZE4	32FG04
6.00"	6.00"	4.00"	—	32FH96	6HYG3	32FG18 *	1ZHH6	32FH67	6JZC4	—
6.00"	6.00"	6.00"	—	32FH97	6HYG5	—	1ZHH7	32FH68	6JZC5	32FG05
8.00"	6.00"	4.00"	—	—	6HYG4	—	6C725	32FH98	6JZF2	—
8.00"	6.00"	6.00"	—	—	6HYG6	—	6C727	—	6JZF4	—
8.00"	8.00"	4.00"	—	32FH99	6HYG7	32FG19 *	3A910	32FH69	6JZE5	32FG06
8.00"	8.00"	6.00"	—	32FJ01	6HYH0	32FG20 *	1ZHH8	32FH70	6JZC6	32FG07
10.00"	8.00"	4.00"	—	—	6HYG8	—	3A911	32FH80	6JZE6	—
10.00"	8.00"	6.00"	—	—	6HYG9	—	6C728	32FH81	6JZF5	—
10.00"	10.00"	4.00"	—	32FH78	6HYH2	—	1ZHH9	32FH71	6JZC7	32FG08
10.00"	10.00"	6.00"	—	32FH79	6HYH3	—	1ZHJ1	32FH72	6JZC8	32FG09
12.00"	8.00"	6.00"	—	—	6HYH1	—	—	—	—	—
12.00"	10.00"	4.00"	—	—	6JYR8	—	6C726	—	6JZF3	—
12.00"	10.00"	6.00"	—	—	6JYR9	—	3A912	32FH82	6JZE7	—
12.00"	12.00"	4.00"	—	32FH83	6JYT0	32FG14 *	1ZHJ2	32FH73	6JZC9	32FG10
12.00"	12.00"	6.00"	—	32FH85	6JYT1	32FG15 *	1ZHJ3	32FH84	6JZD0	32FG11
12.00"	12.00"	8.00"	—	32FH86	—	—	4DMR4	32FH74	6JZE8	32FG12
15.00"	12.00"	4.00"	—	—	6JYT3	—	2W833	—	6JZE3	—
15.00"	12.00"	6.00"	—	—	6JYT4	—	4DMT8	—	6JZF0	—
16.00"	12.00"	6.00"	—	—	—	—	—	32FH87	—	—
18.00"	12.00"	6.00"	—	—	6JYT5	—	—	32FH88	—	—
18.00"	15.00"	6.00"	—	—	6JYT6	—	6C729	—	6JZF6	—
18.00"	15.00"	8.00"	4DMR5	—	—	—	—	—	6JZE9	—
18.00"	18.00"	4.00"	—	—	6JYT7	—	—	—	—	—
18.00"	18.00"	6.00"	—	32FH89	6JYT8	32FG16 *	1ZHJ4	32FH75	6JZD1	32FG13
18.00"	18.00"	8.00"	—	32FH90	—	—	4DMT9	32FH76	6JZF1	—
24.00"	18.00"	6.00"	—	—	6JYT9	—	—	—	—	—
24.00"	24.00"	6.00"	—	32FH94	6JYU0	—	—	32FH93	—	—
24.00"	24.00"	8.00"	6HYC1	32FH95	—	32FG17 *	—	32FH77	—	—
24.00"	24.00"	12.00"	—	32FH92	—	—	—	32FH91	—	—
30.00"	30.00"	12.00"	—	—	—	—	—	32FH64	—	—
36.00"	36.00"	12.00"	—	—	—	—	—	32FH65	—	—

** Rated NEMA 3, 12*

		NEMA 1						NEMA 3R					
		Wiegmann			Hoffman			Wiegmann			Hoffman		
H	W	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.
Without Knockouts													
6.00"	6.00"	1ZHF9	4.00"	**1ZHF6**	32FT21	4.00"	**32FA83**	—	—	—	—	—	—
8.00"	6.00"	2W821	4.00"	**2W818**	32FT22	4.00"	**32FA84**	—	—	—	—	—	—
8.00"	6.00"	2W821	6.00"	**6HXY6**	—	—	—	—	—	—	—	—	—
8.00"	8.00"	6C754	4.00"	**6HXY7**	32FT23	4.00"	**32FA85**	—	—	—	—	—	—
8.00"	8.00"	6C754	6.00"	**6HXY8**	32FT23	6.00"	**32FA86**	—	—	—	—	—	—
10.00"	8.00"	3A904	4.00"	**3A903**	32FT05	4.00"	**32FA73**	—	—	—	—	—	—
10.00"	8.00"	3A904	6.00"	**6HXY9**	32FT05	6.00"	**32FA74**	—	—	—	—	—	—
10.00"	10.00"	31LA20	4.00"	**6HXZ0**	32FT04	4.00"	**32FA71**	—	—	—	—	—	—
10.00"	10.00"	31LA20	6.00"	**1ZHF7**	32FT04	6.00"	**32FA72**	—	—	—	—	—	—
12.00"	10.00"	3A937	4.00"	**6HXZ1**	32FT06	6.00"	**32FA75**	—	—	—	—	—	—
12.00"	10.00"	3A937	6.00"	**3A905**	—	—	—	—	—	—	—	—	—
12.00"	12.00"	2W822	4.00"	**2W819**	32FT07	4.00"	**32FA76**	—	—	—	—	—	—
12.00"	12.00"	2W822	6.00"	**1ZHF8**	32FT07	6.00"	**32FA70**	—	—	—	—	—	—
12.00"	12.00"	2W822	8.00"	**6HXZ2**	32FT07	8.00"	**32FA77**	—	—	—	—	—	—
14.00"	12.00"	2W823	6.00"	**2W820**	32FT08	4.00"	**32FA78**	—	—	—	—	—	—
14.00"	12.00"	2W823	8.00"	**3A940**	32FT08	6.00"	**32FA79**	—	—	—	—	—	—
14.00"	12.00"	—	—	—	32FT08	8.00"	**32FA80**	—	—	—	—	—	—
16.00"	12.00"	31LA17	6.00"	**6HXZ3**	32FT09	8.62"	**32FA54**	2W827	6.00"	**3A921**	32FT25	6.00"	**32FC28**
16.00"	12.00"	Included	6.00"	**3A906**	32FT10	6.00"	**32FA81**	—	—	—	—	—	—
16.00"	12.00"	—	—	—	32FT09	6.62"	**32FA53**	—	—	—	—	—	—
16.00"	16.00"	Included	6.00"	**6HXZ4**	32FT11	6.62"	**32FA55**	31LA18	6.00"	**6HYA7**	32FT28	6.00"	**32FC29**
18.00"	18.00"	—	—	—	—	—	—	—	—	—	32FT30	6.00"	**32FC37**
18.00"	18.00"	—	—	—	—	—	—	—	—	—	32FT30	10.00"	**32FC36**
20.00"	12.00"	—	—	—	Mfr. No. A20N12P	6.00"	**32FA82**	—	—	—	—	—	—
20.00"	16.00"	Included	6.00"	**3A907**	32FT12	6.62"	**32FA56**	2W828	6.00"	**6C718**	32FT31	6.00"	**32FC30**
20.00"	16.00"	Included	8.00"	**3A908**	32FT12	8.62"	**32FA57**	—	—	—	—	—	—
20.00"	20.00"	Included	6.00"	**6HXZ5**	32FT13	6.62"	**32FA51**	3A922	8.00"	**5W278**	32FT35	8.00"	**32FC31**
20.00"	20.00"	Included	8.00"	**6HXZ6**	32FT13	8.62"	**32FA58**	—	—	—	—	—	—
24.00"	16.00"	—	—	—	32FT14	6.62"	**32FA59**	—	—	—	—	—	—
24.00"	20.00"	Included	6.00"	**6C714**	32FT15	6.62"	**32FA60**	2W829	8.00"	**6HYA8**	32FT40	8.00"	**32FC32**
24.00"	20.00"	Included	8.00"	**5W275**	32FT15	8.62"	**32FA61**	—	—	—	—	—	—
24.00"	24.00"	34C523	6.00"	**6HXZ7**	32FT16	6.62"	**32FA62**	2W829	8.00"	**4KP25**	32FT44	10.00"	**32FC38**
24.00"	24.00"	Included	8.00"	**6HXZ8**	32FT16	8.62"	**32FA63**	—	—	—	32FT44	8.00"	**32FC33**
30.00"	24.00"	Included	8.00"	**6C715**	32FT17	6.62"	**32FA64**	3A924	8.00"	**6C719**	32FT50	8.00"	**32FC34**
30.00"	24.00"	Included	10.00"	**5W276**	32FT17	8.62"	**32FA65**	—	—	—	—	—	—
30.00"	30.00"	—	—	—	32FT18	8.62"	**32FA66**	31LA19	12.00"	**6HYA9**	32FT54	12.00"	**32FC39**
36.00"	24.00"	Included	8.00"	**6C716**	32FT19	6.62"	**32FA67**	3A932	12.00"	**6C720**	32FT55	12.00"	**32FC35**
36.00"	24.00"	—	—	—	32FT19	8.62"	**32FA52**	—	—	—	—	—	—
36.00"	30.00"	None	12.00"	**5W277**	32FT20	6.62"	**32FA68**	—	—	—	32FT57	12.00"	**32FC40**
36.00"	30.00"	—	—	—	32FT20	8.62"	**32FA69**	—	—	—	—	—	—
36.00"	36.00"	—	—	—	—	—	—	34C493	12.00"	**6HYC0**	32FT61	12.00"	**32FC41**
With Knockouts													
5.00"	4.00"	—	3.00"	**1ZGY6**	—	—	—	—	—	—	—	—	—
6.00"	6.00"	—	4.00"	**4KN71**	—	—	—	—	—	—	32FT21	4.00"	**32FC52**
8.00"	6.00"	—	—	—	—	—	—	2W821	4.00"	**3A913**	32FT22	4.00"	**32FC53**
8.00"	8.00"	—	4.00"	**4KN72**	—	—	—	6C754	4.00"	**6HYA5**	32FT23	6.00"	**32FC47**
8.00"	8.00"	—	—	—	—	—	—	6C754	6.00"	**6C717**	—	—	—
10.00"	8.00"	—	—	—	—	—	—	3A904	6.00"	**1ZHH4**	32FT05	6.00"	**32FC49**
12.00"	10.00"	—	4.00"	**6HXV6**	—	—	—	3A937	6.00"	**3A939**	32FT06	6.00"	**32FC50**
12.00"	12.00"	—	4.00"	**4KN73**	—	—	—	2W822	6.00"	**6HYA6**	32FT07	10.00"	**32FC51**
12.00"	12.00"	—	6.00"	**1ZGY7**	—	—	—	—	—	—	32FT07	6.00"	**32FC48**
18.00"	12.00"	—	4.00"	**6HXV7**	—	—	—	—	—	—	—	—	—
18.00"	15.00"	—	4.00"	**6HXV8**	—	—	—	—	—	—	—	—	—
18.00"	18.00"	—	6.00"	**6HXV9**	—	—	—	—	—	—	—	—	—
24.00"	18.00"	—	6.00"	**6HXW0**	—	—	—	—	—	—	—	—	—

**** Panel ordering information for Wiegmann is on page 300; ordering information for Hoffman is on page 297.***

HUBBELL WIEGMANN Hoffman

Hinged Cover NEMA 1 and 3R Enclosures

Steel with ANSI 61 gray polyester powder-coated finish inside and out. NEMA 1 enclosures include a flush style latch and NEMA 3R enclosures have a padlockable hasp. Optional interior panels are available, see table below. UL Listed and CSA Certified.



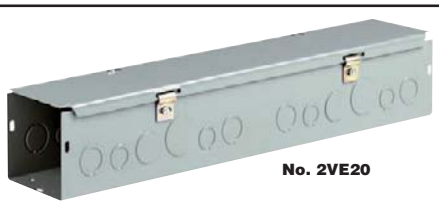
NEMA 1
No. 2W818



NEMA 1
No. 4KN71



NEMA 3R
No. 32FC28



No. 2VE20

HUBBELL WIEGMANN

NEMA 1 Wireway Duct and Fittings

- 16-ga. carbon steel bodies
- ANSI 61 gray polyester powder-coated finish

Straight wireway duct protects electrical wiring in locations where dust, dirt, oil, and water are not serious problems. Hinged covers allow easy lay-in of wires. Doors can be hung in open position or removed from tub. UL Listed and CSA Certified.

	4" x 4" WIREWAY		6" x 6" WIREWAY	
L	Without Knockouts Item No.	With Knockouts Item No.	Without Knockouts Item No.	With Knockouts Item No.
1 ft.	**2VE22**	**2VE20**	**2VE36**	**2VE35**
2 ft.	**2VE24**	**2VE23**	**2VE38**	**2VE37**
3 ft.	**2VE26**	**2VE25**	**2VE40**	**2VE39**
4 ft.	**2VE28**	**2VE27**	**2VE42**	**2VE41**
5 ft.	**2VE30**	**2VE29**	**2VE44**	**2VE43**
6 ft.	**2VE32**	**2VE31**	**2VE46**	**2VE45**
10 ft.	**2VE34**	**2VE33**	**2VE48**	**2VE47**

Item	4" x 4" WIREWAY FITTINGS Item No.	6" x 6" WIREWAY FITTINGS Item No.
Telescope Fitting, Adjustable 9.50 to 15.00" Length	**2VE49**	**2VE50**
Bracket Hanger, Hangs From Overhead	**2VE51**	**2VE52**
Connector	**2VE53**	**2VE54**
End Cap	**2VE55**	**2VE56**
45° Elbow	**2VE57**	**2VE59**
90° Elbow	**2VE58**	**2VE60**
Panel Adapter	**2VE61**	**2VE62**
90° Sweep Elbow	**2VE64**	**2VE65**
Tee	**2VE66**	**2VE67**
Cross	**2VE68**	**2VE69**
Reducer, Reduces From 6x6 Sq In To 4x4 Sq In	—	**2VE63**



No. 6HYD5

HUBBELL WIEGMANN

NEMA 3R Wiring Troughs

Protect wiring in outdoor installations from rain, sleet, and snow, or indoors against dripping water. Feature drip shield top and smooth seamless sides that prevent rain, snow, and sleet from entering enclosure. Embossed mounting holes on back. Slip-on removable cover is fastened with screws located along the bottom edge. Knockouts are located on bottom of enclosure. Gray polyester powder-coated finish or unpainted galvanized steel. UL Listed and CSA Certified.

			ANSI 61 POLYESTER POWDER		GALVANIZED	
H	W	D	No Knockouts Item No.	With Knockouts Item No.	No Knockouts Item No.	With Knockouts Item No.
4.00"	4.00"	12.00"	**6HYE6**	**1ZHJ5**	**6HYD5**	**6JZD2**
4.00"	4.00"	24.00"	**6HYE7**	**1ZHJ6**	**6HYD6**	**6JZD3**
4.00"	4.00"	36.00"	**6HYE8**	**1ZHJ7**	**6HYD7**	**6JZD4**
4.00"	4.00"	48.00"	**6HYE9**	**1ZHJ8**	**6HYD8**	**6JZD5**
4.00"	4.00"	60.00"	**6HYF0**	**1ZHJ9**	**6HYD9**	**6JZD6**
6.00"	6.00"	12.00"	**6HYF1**	**1ZHK1**	**6HYE0**	**6JZD7**
6.00"	6.00"	24.00"	**6HYF2**	**1ZHK2**	**6HYE1**	**6JZD8**
6.00"	6.00"	36.00"	**6HYF3**	**1ZHK3**	**6HYE2**	**6JZD9**
6.00"	6.00"	48.00"	**6HYF4**	**1ZHK4**	**6HYE3**	**6JZE0**
6.00"	6.00"	60.00"	**6HYF5**	**1ZHK5**	**6HYE4**	**6JZE1**
6.00"	6.00"	72.00"	**6HYF6**	**1ZHK6**	**6HYE5**	**6JZE2**



No. 1ZHP7



No. 4KN97



No. 2W830

HUBBELL
WIEGMANN

NEMA 4 and 4X Enclosures

- 14-ga. carbon steel and 16-ga. stainless steel
- ANSI 61 gray polyester powder-coated finish on painted steel units
- Neoprene gasket on NEMA 4 (JIC)
- Polyurethane foam-in-place seamless gasket on NEMA Type 4

Provide nonsubmersible watertight protection indoors and outdoors where splashing, dripping, or hose-down of noncorrosive liquids can occur. Cover is mounted to box with a sturdy continuous hinge. All hardware, door clamps, and hinges are stainless steel. Interior panels sold separately (see page 300). UL Listed and CSA Certified.

H	W	D	Interior Panel*	PAINTED STEEL NEMA 4, 12, 13 Item No.	304 STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item No.	316L STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item No.
Screw Cover Junction Boxes						
6.00"	6.00"	4.00"	—	**1ZHP7** †	—	—
8.00"	8.00"	4.00"	—	**1ZHP8** †	—	—
12.00"	12.00"	6.00"	—	**1ZHR1** †	—	—
Hinged Cover Enclosures (JIC)						
6.00"	4.00"	3.50"	4LV58	**6HXX3**	—	—
6.00"	4.00"	4.00"	4LV58	—	**6HXX4**	—
6.00"	6.00"	4.00"	6XC20	**4KN97**	**6XC06**	**4KN96**
8.00"	6.00"	3.50"	3A926	**4KN98**	—	—
8.00"	6.00"	4.00"	3A926	—	**6XC07**	—
10.00"	8.00"	4.00"	3A928	**4KP01**	**6XC08**	**4KN99**
10.00"	8.00"	6.00"	3A928	**4KP02**	—	—
12.00"	10.00"	5.00"	6XC22	**4KP03**	—	—
12.00"	10.00"	6.00"	6XC22	—	**4KP05**	**4KP04**
12.00"	12.00"	6.00"	4KP36	**4KP06**	**1ZHA3**	—
14.00"	12.00"	6.00"	1TDM5	—	**6XC09**	—
14.00"	12.00"	6.00"	6XC23	**4KP08**	—	**4KP07**
16.00"	14.00"	6.00"	3A930	**4KP10**	**6XC10**	**4KP09**
Hinged Cover Enclosures, Includes Padlockable Hasp and Print Pocket						
16.00"	12.00"	6.00"	2W827	**2W830**	**6XC24**	—
16.00"	12.00"	8.00"	2W827	**6XC16**	**6XC26**	—
16.00"	16.00"	6.00"	31LA18	**6HXZ9**	**6HYC2**	—
20.00"	16.00"	6.00"	2W828	**2W831**	**6C734**	—
20.00"	16.00"	8.00"	2W828	**6C732**	**1ZHP3**	—
20.00"	16.00"	10.00"	2W828	**6HYA0**	**6HYC3**	—
20.00"	20.00"	6.00"	3A922	**6HYA1**	**6HYC4**	—
20.00"	20.00"	8.00"	3A922	**3A923**	—	**6HYC5**
24.00"	20.00"	6.00"	6XC19	**6XC15**	**6XC25**	—
24.00"	20.00"	8.00"	6XC19	**6HYA2**	**1ZHP4**	—
24.00"	24.00"	8.00"	2W829	**2W832**	**6XC27**	—
24.00"	24.00"	12.00"	2W829	—	**6HYC6**	—
30.00"	24.00"	8.00"	3A924	**6C733**	**1ZHP5**	—
30.00"	24.00"	10.00"	3A924	**5W279**	—	—
30.00"	24.00"	12.00"	3A924	—	**1ZHP6**	—
36.00"	24.00"	8.00"	3A932	**6XC17**	**6XC28**	—
36.00"	30.00"	8.00"	3A933	**1ZHG7**	—	—
36.00"	30.00"	10.00"	3A933	**6HYA3**	—	—
36.00"	30.00"	12.00"	3A933	**6HYA4**	**6XC29**	—
36.00"	36.00"	12.00"	34C493	—	**6HYC7**	—
Accessory						
Replacement Clamp				—	—	**4KP42**

**** Panel ordering information is on page 300. † Rated NEMA 3, 4 only.***



Painted Steel
No. 32FC54



Stainless Steel
No. 32FE43

Hoffman

Hinged-Cover NEMA 4 and 4X Enclosures

- ANSI 61 gray polyester powder-coated finish on painted steel units
- Continuous hinge
- IP66 rated

Covers feature screw-down clamp latches for reliable seal. UL Listed and CSA Certified.

H	W	D	Interior Panel*	PAINTED STEEL NEMA 4, 12, 13 Item		304 STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item		304 STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Item		316L STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Item	
				Series	No.	Series	No.	Series	No.	Series	No.
4.00"	4.00"	3.00"	—	A51NF	**32FE39**	—	—	—	—	—	—
6.00"	4.00"	3.00"	32FR89	A51NF	**32FE27**	—	—	—	—	—	—
6.00"	4.00"	3.00"	32FR89	A51NF	**32FE40**	—	—	—	—	—	—
6.00"	4.00"	4.00"	32FR89	—	—	A51S	**32FE44**	—	—	—	—
6.00"	6.00"	4.00"	32FR66	A51NF	**32FE28**	A51S	**32FE43**	—	—	—	—
6.00"	6.00"	4.00"	32FR66	A51NF	**32FE41**	—	—	—	—	—	—
8.00"	6.00"	3.50"	32FR93	A51NF	**32FE29**	—	—	—	—	—	—
8.00"	6.00"	3.50"	32FR93	A51NF	**32FE42**	—	—	—	—	—	—
8.00"	6.00"	4.00"	32FR93	—	—	A51S	**32FE46**	—	—	—	—
10.00"	8.00"	4.00"	32FR67	A51NF	**32FE30**	A51S	**32FE47**	—	—	—	—
10.00"	8.00"	4.00"	32FR67	A51NF	**32FE36**	—	—	—	—	—	—
10.00"	8.00"	6.00"	32FR67	A51NF	**32FE31**	—	—	—	—	—	—
12.00"	10.00"	5.00"	32FR63	A51NF	**32FE32**	—	—	—	—	—	—
12.00"	10.00"	5.00"	32FR63	A51NF	**32FE37**	—	—	—	—	—	—
12.00"	10.00"	6.00"	32FR63	—	—	A51S	**32FE49**	—	—	—	—
12.00"	12.00"	6.00"	32FR68	A51NF	**32FE33**	A51S	**32FE51**	—	—	—	—
14.00"	12.00"	6.00"	32FR80	A51NF	**32FE34**	A51S	**32FE52**	—	—	—	—
14.00"	12.00"	6.00"	32FR80	A51NF	**32FE38**	—	—	—	—	—	—
16.00"	12.00"	6.00"	32FT25	A4	**32FC54**	—	—	A4SW3	**32FD07**	A4SW3	**32FD09**
16.00"	12.00"	8.00"	32FT25	A4	**32FC55**	—	—	A4SW3	**32FD08**	A4SW3	**32FD10**
16.00"	14.00"	6.00"	32FR69	A51NF	**32FE35**	A51S	**32FE54**	—	—	—	—
16.00"	16.00"	6.00"	32FT28	A4	**32FC56**	—	—	A4SW3	**32FD12**	A4SW3	**32FD11**
20.00"	16.00"	6.00"	32FT31	A4	**32FC57**	—	—	A4SW3	**32FD13**	—	—
20.00"	16.00"	8.00"	32FT31	A4	**32FC58**	—	—	A4SW3	**32FD15**	A4SW3	**32FD14**
20.00"	16.00"	10.00"	32FT31	A4	**32FC59**	—	—	A4SW3	**32FD16**	—	—
20.00"	20.00"	6.00"	32FT35	A4	**32FC60**	—	—	A4SW3	**32FD17**	—	—
20.00"	20.00"	8.00"	32FT35	A4	**32FC61**	—	—	A4SW3	**32FD19**	A4SW3	**32FD18**
24.00"	16.00"	8.00"	32FT37	—	—	—	—	A4SW3	**32FD20**	—	—
24.00"	20.00"	6.00"	32FT40	A4	**32FC62**	—	—	A4SW3	**32FD21**	—	—
24.00"	20.00"	8.00"	32FT40	A4	**32FC63**	—	—	A4SW3	**32FD23**	A4SW3	**32FD22**
24.00"	20.00"	10.00"	32FT40	A4	**32FC69**	—	—	A4SW3	**32FD24**	—	—
24.00"	24.00"	6.00"	32FT44	A4	**32FC70**	—	—	A4SW3	**32FD25**	—	—
24.00"	24.00"	8.00"	32FT44	A4	**32FC71**	—	—	A4SW3	**32FD27**	A4SW3	**32FD26**
24.00"	24.00"	12.00"	32FT44	—	—	—	—	A4SW3	**32FD28**	—	—
30.00"	24.00"	8.00"	32FT50	A4	**32FC64**	—	—	A4SW3	**32FD30**	A4SW3	**32FD29**
30.00"	24.00"	10.00"	32FT50	A4	**32FC65**	—	—	A4SW3	**32FD31**	—	—
30.00"	24.00"	12.00"	32FT50	A4	**32FC72**	—	—	A4SW3	**32FD32**	—	—
30.00"	30.00"	8.00"	32FT54	A4	**32FC73**	—	—	A4SW3	**32FD33**	—	—
36.00"	24.00"	8.00"	32FT55	A4	**32FC66**	—	—	A4SW3	**32FD34**	—	—
36.00"	30.00"	8.00"	32FT57	A4	**32FC74**	—	—	A4SW3	**32FD35**	—	—
36.00"	30.00"	10.00"	32FT57	A4	**32FC67**	—	—	A4SW3	**32FD36**	—	—
36.00"	30.00"	12.00"	32FT57	A4	**32FC68**	A4SW3	**32FD42**	A4SW3	**32FD37**	—	—
36.00"	36.00"	12.00"	32FT61	—	—	—	—	A4SW3	**32FD39**	A4SW3	**32FD38**
48.00"	36.00"	10.00"	32FT70	A4	**32FC75**	—	—	—	—	—	—
48.00"	36.00"	12.00"	32FT70	A4	**32FC76**	A4SW3	**32FD43**	A4SW3	**32FD40**	—	—
48.00"	36.00"	16.00"	32FT70	A4	**32FC77**	—	—	—	—	—	—
60.00"	36.00"	12.00"	32FT73	—	—	A4SW3	**32FD44**	A4SW3	**32FD41**	—	—
60.00"	36.00"	16.00"	32FT73	A4	**32FC78**	—	—	—	—	—	—

**** Panel ordering information is on page 297.***

HUBBELL
WIEGMANN

Wiegmann N412C ULTIMATE Series Enclosures

Protect electrical and electronic components form harsh environments. Designed with a 20° sloped-top and feature fabricated bodies and doors from 14- or 16-ga. steel with continuously plasma welded seams. Doors are interchangeable, easily removable and have flush latching. Have concealed hinges and doors are sealed with a closed cell neoprene gasket. Increased tub opening provides better access. Smooth grain finish.



No. 2NE71



No. 2HAY1

H	W	D	Interior Panel	Carbon Steel NEMA 3R, 4, 12 Item No.	Carbon Steel NEMA 3R, 4, 12, 13 Item No.	304 Stainless Steel NEMA 3R, 4, 4X, 12 Item No.
Enclosure						
12.00"	12.00"	6.00"	2NJ26 or 2NJ27	**2NE71**	—	**2NE72**
16.00"	12.00"	6.00"	2NJ28 or 2NJ29	**2NE73**	—	**2NE74**
16.00"	12.00"	8.00"	2NJ28 or 2NJ29	**2NE75**	—	**2NE76**
16.00"	16.00"	6.00"	2NJ30 or 2NJ31	**2NE77**	—	**2NE78**
16.00"	16.00"	8.00"	2NJ30 or 2NJ31	**2NE79**	—	**2NE80**
16.00"	20.00"	8.00"	2NJ32 or 2NJ33	**2NE81**	—	**2NE82**
20.00"	16.00"	6.00"	2NJ32 or 2NJ33	**2NE83**	—	**2NE84**
20.00"	16.00"	8.00"	2NJ32 or 2NJ33	**2NE85**	—	**2NE86**
20.00"	20.00"	6.00"	2NJ34 or 2NJ35	**2NE87**	—	**2NE88**
20.00"	20.00"	8.00"	2NJ34 or 2NJ35	**2NE89**	—	**2NE90**
20.00"	20.00"	12.00"	2NJ34 or 2NJ35	**2NE91**	—	**2NE92**
24.00"	16.00"	8.00"	2NJ36 or 2NJ37	**2NE93**	—	**2NE94**
24.00"	20.00"	8.00"	2NJ38 or 2NJ39	**2NE95**	—	**2NE96**
24.00"	24.00"	8.00"	2NJ40 or 2NJ41	**2NE97**	—	**2NE98**
24.00"	24.00"	12.00"	2NJ40 or 2NJ41	**2NE99**	—	**2NJ10**
30.00"	24.00"	8.00"	2NJ42 or 2NJ43	**2NJ11**	—	**2NJ12**
30.00"	24.00"	12.00"	2NJ42 or 2NJ43	**2NJ13**	—	**2NJ14**
30.00"	30.00"	8.00"	2NJ44 or 2NJ45	**2NJ15**	—	**2NJ16**
36.00"	24.00"	8.00"	2NJ46 or 2NJ47	**2NJ17**	—	**2NJ18**
36.00"	30.00"	8.00"	2NJ48 or 2NJ49	**2NJ20**	—	**2NJ22**
36.00"	30.00"	12.00"	2NJ48 or 2NJ49	**2NJ24**	—	**2NJ25**
Sloped Top Enclosure						
12.00"	12.00"	6.00"	2NJ26	—	**2HAX1**	—
16.00"	12.00"	6.00"	2NJ28	—	**2HAX2**	—
16.00"	12.00"	8.00"	2NJ28	—	—	**2HCA8**
16.00"	16.00"	8.00"	2NJ30	—	**2HAX3**	**2HCA2**
20.00"	16.00"	6.00"	2NJ32	—	**2HAX4**	—
20.00"	16.00"	8.00"	2NJ32	—	**2HAX5**	**2HAZ8**
20.00"	16.00"	12.00"	2NJ32	—	—	**2HCC3**
20.00"	20.00"	6.00"	2NJ34	—	**2HAX6**	—
20.00"	20.00"	8.00"	2NJ34	—	**2HAX7**	**2HCA1**
20.00"	20.00"	12.00"	2NJ35	—	—	**2HCC1**
24.00"	20.00"	8.00"	2NJ38	—	**2HAX8**	**2HCA3**
24.00"	24.00"	8.00"	2NJ40	—	**2HAY2**	**2HAZ9**
24.00"	24.00"	10.00"	2NJ40	—	**2HAX9**	—
24.00"	24.00"	12.00"	2NJ40	—	**2HAY1**	**2HCA6**
30.00"	24.00"	8.00"	2NJ42	—	**2HAY6**	**2HCA4**
30.00"	24.00"	12.00"	2NJ42	—	**2HAY4**	**2HCA5**
30.00"	24.00"	20.00"	2NJ42	—	**2HAY5**	—
30.00"	30.00"	8.00"	2NJ44	—	—	**2HCA7**
30.00"	30.00"	8.00"	2NJ42	—	**2HAY7**	—
36.00"	30.00"	8.00"	2NJ48	—	**2HAZ2**	—
36.00"	30.00"	10.00"	2NJ48	—	**2HAY8**	—
36.00"	30.00"	12.00"	2NJ48	—	**2HAY9**	**2HCC2**
36.00"	30.00"	16.00"	2NJ48	—	**2HAZ1**	**2HCC5**
36.00"	36.00"	12.00"	34C492	—	**2HAZ3**	**2HCA9**
48.00"	36.00"	10.00"	34C483	—	**2HAZ4**	—
48.00"	36.00"	12.00"	34C483	—	**2HAZ5**	—
48.00"	36.00"	16.00"	34C483	—	**2HAZ6**	—
60.00"	36.00"	12.00"	34C472	—	**2HAZ7**	—
60.00"	36.00"	16.00"	34C472	—	—	**2HCC7**

Hoffman

Aluminum Enclosures, NEMA 12 and 13

Lightweight enclosures protect components and controls in indoor applications. Designed with seams that are continuously welded and ground smooth. Stainless steel screws and clamps secure cover that is removed by pulling stainless steel continuous hinge pin. Weldnuts are furnished for mounting optional panels and terminal block kit. Oil-resistant gasket. Enclosures are unpainted; cover and sides of body have smooth, brushed finish.



No. 32FD71

H	W	D	Item No.
6.00"	6.00"	4.00"	**32FD74**
8.00"	6.00"	4.00"	**32FD75**
10.00"	8.00"	4.00"	**32FD70**
12.00"	10.00"	6.00"	**32FD71**
14.00"	12.00"	6.00"	**32FD72**
16.00"	14.00"	6.00"	**32FD73**

Hoffman

Sloped-Top Enclosures

Designed with a 20° sloped-top, these enclosures feature 14- or 16-ga. steel with continuously welded and ground seams. Carbon steel versions have gray polyester powder paint inside and out. Ideal for smaller control cabinets for applications requiring the mounting of controls at an ergonomic height. NEMA 12 and 13 for carbon steel and NEMA 3R,4,4X, and 12 for stainless steel.



No. 32FJ89



No. 32FJ08

H	W	D	CARBON STEEL Item No.	304 STAINLESS STEEL Item No.
Wall Mount, Hinged Cover				
12.00"	12.00"	6.00"	**32FJ89**	—
16.00"	12.00"	8.00"	—	**32FK76**
16.00"	16.00"	8.00"	**32FJ90**	**32FK77**
20.00"	16.00"	8.00"	**32FJ91**	**32FK78**
20.00"	20.00"	8.00"	**32FJ92**	**32FK79**
20.00"	20.00"	12.00"	—	**32FK82**
24.00"	20.00"	8.00"	**32FJ93**	**32FK83**
24.00"	24.00"	8.00"	**32FJ94**	—
24.00"	24.00"	10.00"	**32FJ95**	—
24.00"	24.00"	12.00"	**32FJ96**	**32FK84**
30.00"	24.00"	8.00"	—	**32FK86**
30.00"	24.00"	12.00"	**32FJ97**	**32FK85**
30.00"	30.00"	8.00"	—	**32FK80**
36.00"	30.00"	10.00"	**32FJ98**	—
36.00"	30.00"	12.00"	**32FJ99**	**32FK87**
36.00"	36.00"	12.00"	—	**32FK88**
60.00"	36.00"	16.00"	—	**32FK81**

H	W	D	CARBON STEEL Item No.
Pedestal/Table Mount, Screw On Cover			
8.00"	8.00"	7.09"	**32FJ07**
8.00"	12.00"	7.09"	**32FJ08**
8.00"	16.00"	7.09"	**32FJ09**
8.00"	20.00"	7.09"	**32FJ10**
12.00"	12.00"	9.09"	**32FJ11**
12.00"	16.00"	9.09"	**32FJ12**
12.00"	20.00"	9.09"	**32FJ13**
12.00"	24.00"	9.09"	**32FJ14**
16.00"	16.00"	11.09"	**32FJ15**
16.00"	20.00"	11.09"	**32FJ16**
16.00"	24.00"	11.09"	**32FJ17**
16.00"	30.00"	11.09"	**32FJ18**
16.00"	36.00"	11.09"	**32FJ22**
20.00"	20.00"	13.09"	**32FJ19**
20.00"	24.00"	13.09"	**32FJ20**
20.00"	30.00"	13.09"	**32FJ21**



No. 1ZHD4



No. 3A927

HUBBELL
WIEGMANN

JIC and NEMA 12 and 13 Enclosures

- ANSI 61 gray polyester powder-coated finish
- 14-ga. steel

Screw-cover models have a removable cover fastened at the corners with captive, plated screws. Hinged-cover models have continuous hinged door with plated screw-fastened clamps or keyed handle. UL Listed and CSA Certified.

H	W	D	Interior Panel*	Mfr. Model	Item No.
Screw-Cover JIC Enclosures, Neoprene Gasket					
4.00"	2.00"	2.00"	—	JIC040202	**1ZHD5**
4.00"	3.00"	2.50"	—	JIC0403025	**1ZHD4**
4.00"	4.00"	3.00"	—	JIC040403	**1ZHD6**
4.00"	4.00"	4.00"	—	B040404SC	**1ZGY8**
6.00"	4.00"	4.00"	4LV58	B060404SC	**1ZGZ1**
6.00"	6.00"	4.00"	6XC20	B060604SC	**1ZGZ2**
8.00"	6.00"	3.50"	3A926	B080603SC	**3A925**
8.00"	8.00"	4.00"	6XC21	B080804SC	**1ZGZ3**
10.00"	8.00"	4.00"	3A928	B100804SC	**1ZGZ4**
10.00"	8.00"	6.00"	3A928	B100806SC	**3A927**
12.00"	10.00"	5.00"	6XC22	B121005SC	**1ZGZ5**
12.00"	12.00"	6.00"	4KP36	B121206SC	**1ZGZ6**
14.00"	12.00"	6.00"	6XC23	B141206SC	**1ZGZ7**
16.00"	14.00"	6.00"	3A930	B161406SC	**3A929**
Hinged-Cover JIC Enclosures, Neoprene Gasket					
4.00"	4.00"	3.50"	—	B040403CH	**6C730**
6.00"	4.00"	3.50"	4LV58	B060403CH	**4KN93**
6.00"	4.00"	4.00"	4LV58	B060404CH	**1ZGY9**
6.00"	6.00"	4.00"	6XC20	B060604CH	**6XC00**
8.00"	6.00"	3.50"	3A926	B080603CH	**6C731**
8.00"	8.00"	4.00"	6XC21	B080804CH	**6XC01**
10.00"	8.00"	4.00"	3A928	B100804CH	**4KN94**
10.00"	8.00"	6.00"	3A928	B100806CH	**6XC02**
12.00"	10.00"	5.00"	6XC22	B121005CH	**6XC03**
12.00"	12.00"	6.00"	4KP36	B121206CH	**4KN95**
14.00"	12.00"	6.00"	6XC23	B141206CH	**6XC04**
16.00"	14.00"	6.00"	3A930	B161406CH	**6XC05**
20.00"	16.00"	7.00"	2W828	B201607CH	**6C721**
20.00"	16.00"	9.00"	2W828	B201609CH	**1ZGZ8**
20.00"	20.00"	7.00"	3A922	B202007CH	**6C722**
20.00"	20.00"	9.00"	3A922	B202009CH	**1ZGZ9**
24.00"	20.00"	7.00"	6XC19	B242007CH	**6C723**
24.00"	20.00"	9.00"	6XC19	B242009CH	**1ZHA1**
24.00"	24.00"	9.00"	2W829	B242409CH	**6C724**
30.00"	24.00"	9.00"	3A924	B302409CH	**1ZHA2**
Hinged-Cover, Wall-Mount with Padlockable Hasp, Polyurethane Seamless Gasket					
16.00"	12.00"	6.00"	2W827	N12161206	**2W824**
16.00"	16.00"	8.00"	31LA18	N12161608	**1ZHD7**
20.00"	16.00"	6.00"	2W828	N12201606	**2W825**
20.00"	16.00"	8.00"	2W828	N12201608	**6XC12**
20.00"	20.00"	8.00"	3A922	N12202008	**3A931**
24.00"	16.00"	8.00"	6XC18	N12241608	**6XC13**
24.00"	20.00"	6.00"	6XC19	N12242006	**1ZHD8**
24.00"	20.00"	8.00"	6XC19	N12242008	**1ZHD9**
24.00"	24.00"	6.00"	2W829	N12242406WW	**6XC11**
24.00"	24.00"	8.00"	2W829	N12242408	**2W826**
24.00"	24.00"	10.00"	2W829	N12242410	**1ZHE1**
30.00"	24.00"	6.00"	3A924	N12302406	**1ZHE2**
30.00"	24.00"	8.00"	3A924	N12302408	**6C748**
30.00"	24.00"	10.00"	3A924	N12302410	**5W280**
30.00"	30.00"	8.00"	31LA19	N12303008	**1ZHE3**
36.00"	24.00"	8.00"	3A932	N12362408	**6XC14**
36.00"	24.00"	10.00"	3A932	N12362410	**5W281**
36.00"	24.00"	12.00"	3A932	N12362412	**1ZHE4**
36.00"	30.00"	12.00"	3A933	N12363012	**5W282**
48.00"	36.00"	12.00"	2VB87	N12483612	**1ZHE5**
Enclosure Accessories					
Key Lock Kit for JIC Enclosures				WACLJIC	**4KP38**
Key Lock Kit for NEMA 12 Enclosures				WACLSN12	**3A938**
Latch Kit for NEMA 12 Enclosures, Single-Point Key Locking				WAL2A	**2W839**
Padlock Kit for JIC Enclosures				WAPLKJIC	**4KP43**
Replacement Clamp Assembly for JIC Enclosures				WAJICRA	**4KP39**
Replacement Clamp Assembly for NEMA 12 Enclosures				WAN12RA	**4KP41**

Interior panels sold separately; see page 300.



No. 32FD78



No. 32EZ48

Hoffman

NEMA 12 and 13 Enclosures

Constructed of 16- or 14-ga. steel, and feature seams continuously welded and ground smooth. Bonding provision on door. A51SC Series have ANSI 61 gray polyester powder paint inside and out. Designed with screw cover and is secured in each corner for a positive seal that is easily removed for modifications. A51CH Series have ANSI 61 gray polyester powder paint inside and out. Designed with screw-down clamps for secure closure and can be used in a wide variety of applications. A12 Series have a white inside with ANSI 61 gray finish on the outside. Designed for applications requiring a bright white interior to increase visibility; includes a padlocking hasp and staple for security and screw-down clamps for secure closure.

H	W	D	Interior Panel*	Mfr. Model	Item No.
Screw On Cover, A51SC Series					
4.00"	4.00"	3.00"	—	A404SC	**32FE77**
4.00"	4.00"	4.00"	—	A4044SC	**32FE64**
6.00"	4.00"	3.00"	32FR89	A604SC	**32FE78**
6.00"	4.00"	4.00"	32FR89	A6044SC	**32FE65**
6.00"	6.00"	4.00"	32FR66	A606SC	**32FE66**
8.00"	6.00"	3.50"	32FR93	A806SC	**32FE67**
8.00"	6.00"	6.00"	32FR93	A8066SC	**32FE79**
8.00"	8.00"	4.00"	32FR96	A808SC	**32FE68**
10.00"	8.00"	4.00"	32FR67	A1008SC	**32FE69**
10.00"	8.00"	6.00"	32FR67	A10086SC	**32FE70**
10.00"	10.00"	4.00"	32FR70	A1010SC	**32FE76**
10.00"	10.00"	6.00"	32FR70	A10106SC	**32FE75**
12.00"	10.00"	5.00"	32FR63	A1210SC	**32FE71**
12.00"	12.00"	6.00"	32FR68	A1212SC	**32FE72**
14.00"	12.00"	6.00"	32FR80	A1412SC	**32FE73**
16.00"	14.00"	6.00"	32FR69	A1614SC	**32FE74**
Hinged Cover, A51CH Series					
4.00"	4.00"	3.00"	—	A404CH	**32FD76**
4.00"	4.00"	4.00"	—	A4044CH	**32FD77**
6.00"	4.00"	3.00"	32FR89	A604CH	**32FD78**
6.00"	4.00"	4.00"	32FR89	A6044CH	**32FD79**
6.00"	6.00"	4.00"	32FR66	A606CH	**32FD80**
8.00"	6.00"	3.50"	32FR93	A806CH	**32FD81**
8.00"	6.00"	6.00"	32FR93	A8066CH	**32FD82**
8.00"	8.00"	4.00"	32FR96	A808CH	**32FD83**
10.00"	8.00"	4.00"	32FR67	A1008CHS	**32FD94**
10.00"	8.00"	4.00"	32FR67	A1008CH	**32FD84**
10.00"	8.00"	6.00"	32FR67	A10086CH	**32FD85**
10.00"	10.00"	6.00"	32FR70	A10106CH	**32FD86**
12.00"	6.00"	4.00"	32FR79	A12064CH	**32FD95**
12.00"	10.00"	5.00"	32FR63	A1210CH	**32FD87**
12.00"	10.00"	8.00"	32FR63	A12108CH	**32FD88**
12.00"	12.00"	6.00"	32FR68	A1212CH	**32FD89**
14.00"	8.00"	6.00"	32FR82	A14086CH	**32FD96**
14.00"	12.00"	6.00"	32FR80	A1412CH	**32FD90**
14.00"	12.00"	8.00"	32FR80	A14128CH	**32FD91**
16.00"	10.00"	6.00"	32FR83	A16106CH	**32FD97**
16.00"	14.00"	6.00"	32FR69	A1614CH	**32FD92**
16.00"	14.00"	6.00"	32FR69	A1614CHS	**32FD99**
16.00"	14.00"	8.00"	32FR69	A16148CH	**32FD93**
16.00"	14.00"	10.00"	32FR69	A161410CH	**32FD98**
Hinged Cover, A12 Series					
16.00"	12.00"	6.00"	32FT25	A161206LP	**32EZ48**
16.00"	12.00"	8.00"	32FT25	A161208LP	**32EZ49**
16.00"	16.00"	6.00"	32FT28	A161606LP	**32EZ50**
16.00"	16.00"	8.00"	32FT28	A161608LP	**32EZ51**
16.00"	20.00"	6.00"	32FT31	A162006LP	**32EZ80**
16.00"	20.00"	8.00"	32FT31	A162008LP	**32EZ81**
20.00"	16.00"	6.00"	32FT31	A201606LP	**32EZ52**
20.00"	16.00"	8.00"	32FT31	A201608LP	**32EZ53**
20.00"	16.00"	10.00"	32FT31	A201610LP	**32EZ54**
20.00"	16.00"	12.00"	32FT31	A201612LP	**32EZ82**
20.00"	20.00"	6.00"	32FT35	A202006LP	**32EZ55**
20.00"	20.00"	8.00"	32FT35	A202008LP	**32EZ56**
20.00"	20.00"	10.00"	32FT35	A202010LP	**32EZ83**
20.00"	24.00"	8.00"	32FT40	A202408LP	**32EZ84**
24.00"	16.00"	6.00"	32FT37	A241606LP	**32EZ85**
24.00"	16.00"	8.00"	32FT37	A241608LP	**32EZ57**
24.00"	20.00"	6.00"	32FT40	A242006LP	**32EZ58**
24.00"	20.00"	8.00"	32FT40	A242008LP	**32EZ59**
24.00"	20.00"	10.00"	32FT40	A242010LP	**32EZ60**
24.00"	20.00"	12.00"	32FT40	A242012LP	**32EZ86**
24.00"	24.00"	6.00"	32FT44	A242406LP	**32EZ61**
24.00"	24.00"	8.00"	32FT44	A242408LP	**32EZ62**
24.00"	24.00"	10.00"	32FT44	A242410LP	**32EZ63**
24.00"	24.00"	12.00"	32FT44	A242412LP	**32EZ64**
24.00"	30.00"	8.00"	32FT50	A243008LP	**32EZ65**
24.00"	42.00"	8.00"	32FT63	A244208WFLP	**32EZ78**
24.00"	48.00"	8.00"	32FT68	A244808WFLP	**32EZ79**
30.00"	20.00"	8.00"	32FT48	A302008LP	**32EZ66**
30.00"	20.00"	10.00"	32FT48	A302010LP	**32EZ87**
30.00"	24.00"	6.00"	32FT50	A302406LP	**32EZ67**
30.00"	24.00"	8.00"	32FT50	A302408LP	**32EZ68**
30.00"	24.00"	10.00"	32FT50	A302410LP	**32EZ69**
30.00"	24.00"	12.00"	32FT50	A302412LP	**32EZ70**
30.00"	30.00"	8.00"	32FT54	A303008LP	**32EZ71**
30.00"	30.00"	12.00"	32FT54	A303012LP	**32EZ88**
30.00"	36.00"	8.00"	32FT57	A303608LP	**32EZ89**
30.00"	42.00"	10.00"	32FT64	A304210WFLP	**32EZ90**
30.00"	48.00"	10.00"	32FT69	A304810WFLP	**32EZ91**
30.00"	60.00"	10.00"	Mfr. No. A60P30	A306010WFLP	**32EZ92**
36.00"	24.00"	8.00"	32FT55	A362408LP	**32EZ72**
36.00"	24.00"	10.00"	32FT55	A362410LP	**32EZ73**
36.00"	24.00"	12.00"	32FT55	A362412LP	**32EZ74**
36.00"	30.00"	8.00"	32FT57	A363008LP	**32EZ75**
36.00"	30.00"	10.00"	32FT57	A363010LP	**32EZ93**
36.00"	30.00"	12.00"	32FT57	A363012LP	**32EZ94**
36.00"	30.00"	16.00"	32FT57	A363016LP	**32EZ95**
36.00"	36.00"	8.00"	32FT61	A363608LP	**32EZ96**
36.00"	36.00"	12.00"	32FT61	A363612LP	**32EZ76**
36.00"	42.00"	12.00"	32FT66	A364212WFLP	**32EZ97**
36.00"	48.00"	12.00"	32FT70	A364812WFLP	**32EZ98**
42.00"	30.00"	8.00"	32FT64	A423008LP	**32EZ99**
42.00"	30.00"	10.00"	32FT64	A423010LP	**32FA01**
42.00"	30.00"	12.00"	32FT64	A423012LP	**32FA02**
42.00"	36.00"	8.00"	32FT66	A423608LP	**32FA03**
42.00"	36.00"	10.00"	32FT66	A423610LP	**32FA04**
42.00"	36.00"	12.00"	32FT66	A423612LP	**32FA05**
42.00"	36.00"	16.00"	32FT66	A423616LP	**32FA06**
42.00"	60.00"	12.00"	Mfr. No. A60BFP42	A426012WFALP	**32FA07**
48.00"	30.00"	10.00"	32FT69	A483010LP	**32FA08**
48.00"	36.00"	8.00"	32FT70	A483608LP	**32FA09**
48.00"	36.00"	10.00"	32FT70	A483610LP	**32FA10**
48.00"	36.00"	12.00"	32FT70	A483612LP	**32EZ77**
48.00"	36.00"	16.00"	32FT70	A483616LP	**32FA11**
48.00"	48.00"	12.00"	32FT72	A484812WFLP	**32FA12**
60.00"	36.00"	10.00"	32FT73	A603610LP	**32FA13**
60.00"	36.00"	12.00"	32FT73	A603612LP	**32FA14**
60.00"	36.00"	16.00"	32FT73	A603616LP	**32FA15**
72.00"	36.00"	12.00"	Mfr. No. A72P36G	A723612LP	**32FA16**
Locking Accessories					
Replacement Clamp For Clamp-cover Enclosures				AL23SS	**32FF40**

Interior panels sold separately; see page 297.

CONCEPT™ NEMA 12 Wall-Mount Enclosures

Hoffman

- NEMA rated: 4, 12, 13
- Hinged cover
- CW1 Series

These enclosures are ideal for machine control applications. Designed with streamlined styling, flush quarter-turn latches, and an attractive, durable finish. Gray, ANSI 61 polyester powder-coated finish except where noted. Stainless steel versions are available on Grainger.com®.



No. 32FJ27

H	W	D	Interior Panel*	Mfr. Model	Item No.	
12.00"	12.00"	6.00"	32FK08	CSD12126	32FJ23	
12.00"	12.00"	6.00"	32FK08	CSD12126LG	32FJ47	†
16.00"	12.00"	6.00"	32FK10	CSD16126	32FJ24	
16.00"	12.00"	8.00"	32FK10	CSD16128	32FJ25	
16.00"	12.00"	10.00"	32FK10	CSD161210	32FJ48	
16.00"	16.00"	6.00"	32FK12	CSD16166	32FJ26	
16.00"	16.00"	6.00"	32FK12	CSD16166LG	32FJ43	†
16.00"	16.00"	8.00"	32FK12	CSD16168	32FJ27	
16.00"	16.00"	8.00"	32FK12	CSD16168LG	32FJ50	†
16.00"	16.00"	10.00"	32FK12	CSD161610	32FJ49	
16.00"	20.00"	6.00"	32FK14	CSD16206	32FJ51	
16.00"	20.00"	8.00"	32FK14	CSD16208	32FJ28	
20.00"	16.00"	6.00"	32FK14	CSD20166	32FJ29	
20.00"	16.00"	8.00"	32FK14	CSD20168	32FJ30	
20.00"	16.00"	8.00"	32FK14	CSD20168LG	32FJ44	†
20.00"	16.00"	10.00"	32FK14	CSD201610	32FJ52	
20.00"	20.00"	6.00"	32FK16	CSD20206	32FJ31	
20.00"	20.00"	8.00"	32FK16	CSD20208	32FJ32	
20.00"	20.00"	8.00"	32FK16	CSD20208LG	32FJ45	†
20.00"	20.00"	10.00"	32FK16	CSD202010	32FJ53	
20.00"	20.00"	12.00"	32FK16	CSD202012	32FJ33	
20.00"	24.00"	8.00"	32FK20	CSD20248	32FJ55	
20.00"	24.00"	10.00"	32FK20	CSD202410	32FJ54	
24.00"	16.00"	6.00"	32FK18	CSD24166	32FJ57	
24.00"	16.00"	8.00"	32FK18	CSD24168	32FJ34	
24.00"	16.00"	10.00"	32FK18	CSD241610	32FJ56	
24.00"	20.00"	6.00"	32FK20	CSD24206	32FJ60	
24.00"	20.00"	8.00"	32FK20	CSD24208	32FJ61	
24.00"	20.00"	10.00"	32FK20	CSD242010	32FJ58	
24.00"	20.00"	12.00"	32FK20	CSD242012	32FJ59	
24.00"	24.00"	6.00"	32FK22	CSD24246	32FJ64	
24.00"	24.00"	8.00"	32FK22	CSD24248	32FJ35	
24.00"	24.00"	8.00"	32FK22	CSD24248LG	32FJ46	†
24.00"	24.00"	10.00"	32FK22	CSD242410	32FJ62	
24.00"	24.00"	12.00"	32FK22	CSD242412	32FJ36	
24.00"	24.00"	16.00"	32FK22	CSD242416	32FJ63	
24.00"	30.00"	8.00"	32FK26	CSD24308	32FJ66	
24.00"	30.00"	10.00"	32FK26	CSD243010	32FJ65	
24.00"	42.00"	8.00"	32FK24	CTD24428	32FJ87	‡
30.00"	20.00"	8.00"	32FK25	CSD30208	32FJ68	
30.00"	20.00"	10.00"	32FK25	CSD302010	32FJ67	
30.00"	24.00"	8.00"	32FK26	CSD30248	32FJ37	
30.00"	24.00"	10.00"	32FK26	CSD302410	32FJ69	
30.00"	24.00"	12.00"	32FK26	CSD302412	32FJ38	
30.00"	30.00"	8.00"	32FK28	CSD30308	32FJ39	
30.00"	30.00"	10.00"	32FK28	CSD303010	32FJ70	
30.00"	30.00"	12.00"	32FK28	CSD303012	32FJ71	
36.00"	24.00"	8.00"	32FK30	CSD36248	32FJ40	
36.00"	24.00"	10.00"	32FK30	CSD362410	32FJ72	
36.00"	24.00"	12.00"	32FK30	CSD362412	32FJ73	
36.00"	30.00"	8.00"	32FK32	CSD36308	32FJ41	
36.00"	30.00"	10.00"	32FK32	CSD363010	32FJ74	
36.00"	30.00"	12.00"	32FK32	CSD363012	32FJ42	
36.00"	30.00"	16.00"	32FK32	CSD363016	32FJ75	
36.00"	36.00"	8.00"	32FK34	CSD36368	32FJ78	
36.00"	36.00"	10.00"	32FK34	CSD363610	32FJ76	
36.00"	36.00"	12.00"	32FK34	CSD363612	32FJ77	
36.00"	48.00"	12.00"	32FK39	CTD364812	32FJ88	‡
42.00"	36.00"	10.00"	32FK37	CSD423610	32FJ79	
42.00"	36.00"	12.00"	32FK37	CSD423612	32FJ80	
48.00"	24.00"	12.00"	32FK38	CSD482412	32FJ81	
48.00"	36.00"	10.00"	32FK39	CSD483610	32FJ82	
48.00"	36.00"	12.00"	32FK39	CSD483612	32FJ83	
48.00"	36.00"	16.00"	32FK39	CSD483616	32FJ84	
60.00"	36.00"	10.00"	32FK41	CSD603610	32FJ85	
60.00"	36.00"	12.00"	32FK41	CSD603612	32FJ86	

** Interior panels sold separately, this page. † Light gray, RAL 7035 textured polyester powder finish. ‡ 2-door model.*

Interior Panels

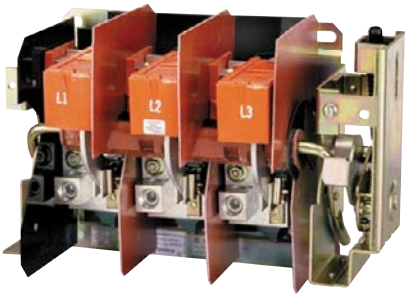
Hoffman

Install inside enclosure to allow mounting of components.
Panel mounting hardware included.



No. 32FR62

H	W	Mfr. Model	Item No.
Aluminum			
4.88"	4.88"	A6P6AL	32FR91
6.75"	4.88"	A8P6AL	32FR94
8.75"	6.75"	A10P8AL	32FR72
10.75"	8.75"	A12P10AL	32FR75
12.75"	10.75"	A14P12AL	32FR81
13.00"	9.00"	A16P12AL	32FT26
14.75"	12.88"	A16P14AL	32FR85
16.75"	14.88"	A18P16AL	32FR88
17.00"	13.00"	A20P16AL	32FT32
21.00"	17.00"	A24P20AL	32FT41
21.00"	21.00"	A24P24AL	32FT45
27.00"	21.00"	A30P24AL	32FT51
33.00"	27.00"	A36P30AL	32FT58
Stainless Steel			
6.75"	4.88"	A8P6SS	32FR95
8.75"	6.75"	A10P8SS	32FR74
10.75"	8.75"	A12P10SS	32FR77
10.75"	10.75"	A12P12SS	32FR78
13.00"	9.00"	A16P12SS6	32FT27
14.75"	12.88"	A16P14SS	32FR87
17.00"	13.00"	A20P16SS6	32FT34
21.00"	13.00"	A24P16SS6	32FT39
21.00"	17.00"	A24P20SS6	32FT43
21.00"	21.00"	A24P24SS6	32FT47
27.00"	21.00"	A30P24SS6	32FT53
33.00"	27.00"	A36P30SS6	32FT60
Steel, Galvanized			
4.88"	2.88"	A6P4G	32FR90
4.88"	4.88"	A6P6G	32FR92
6.75"	4.88"	A8P6G	32FR62
8.25"	6.25"	A10N8P	32FT05
8.25"	8.25"	A10N10P	32FT04
8.75"	6.88"	A10P8G	32FR73
8.75"	8.88"	A10P10G	32FR71
10.20"	10.20"	CP1212G	32FK09
10.25"	8.25"	A12N10P	32FT06
10.25"	10.25"	A12N12PP	32FR97
10.25"	10.25"	A12N12P	32FT07
10.75"	8.88"	A12P10G	32FR76
10.75"	10.88"	A12P12G	32FR64
12.00"	12.00"	PB1212PP	32FT03
12.25"	10.25"	A14N12P	32FT08
12.75"	10.88"	A14P12G	32FR65
13.00"	10.50"	A16N12MP	32FT09
13.00"	14.50"	A16N16MP	32FT11
14.20"	10.20"	CP1612G	32FK11
14.25"	10.25"	A16N12P	32FT10
14.50"	17.00"	A20N16MPP	32FR98
14.75"	8.88"	A16P10G	32FR84
14.75"	12.88"	A16P14G	32FR86
17.00"	13.00"	A20P16G	32FT33
17.00"	14.50"	A20N16MP	32FT12
17.00"	17.00"	A20P20G	32FT36
17.00"	18.50"	A20N20MP	32FT13
18.20"	14.20"	CP2016G	32FK15
18.20"	18.20"	CP2020G	32FK17
18.50"	21.00"	A24N20MPP	32FR99
21.00"	13.00"	A24P16G	32FT38
21.00"	14.50"	A24N16MP	32FT14
21.00"	17.00"	A24P20G	32FT42
21.00"	18.50"	A24N20MP	32FT15
21.00"	21.00"	A24P24G	32FT46
21.00"	22.50"	A24N24MP	32FT16
22.20"	14.20"	CP2416G	32FK19
22.20"	18.20"	CP2420G	32FK21
22.50"	21.00"	A24N24MPP	32FT01
22.50"	32.00"	A36N24MPP	32FT02
26.00"	22.50"	A30N24MP	32FT17
26.00"	28.50"	A30N30MP	32FT18
27.00"	17.00"	A30P20G	32FT49
27.00"	21.00"	A30P24G	32FT52
32.00"	22.50"	A36N24MP	32FT19
32.00"	28.50"	A36N30MP	32FT20
33.00"	21.00"	A36P24G	32FT56
33.00"	27.00"	A36P30G	32FT59
39.00"	27.00"	A42P30G	32FT65
39.00"	33.00"	A42P36G	32FT67
45.00"	33.00"	A48P36G	32FT71
56.00"	44.00"	A60P48G	32FR57
56.00"	56.00"	A60P60G	32FR59
57.00"	33.00"	A60P36G	32FT74
68.00"	56.00"	A72P60G	32FR61
Steel, White			
4.25"	4.25"	A6N6P	32FT21
4.88"	2.88"	A6P4	32FR89
4.88"	4.88"	A6P6	32FR66
6.25"	4.25"	A8N6P	32FT22
6.25"	6.25"	A8N8P	32FT23
6.75"	4.88"	A8P6	32FR93
6.75"	6.88"	A8P8	32FR96
8.75"	6.88"	A10P8	32FR67
8.75"	8.88"	A10P10	32FR70
9.00"	21.00"	A12P24	32FT24
10.20"	10.20"	CP1212	32FK08
10.75"	4.88"	A12P6	32FR79
10.75"	8.88"	A12P10	32FR63
10.75"	10.88"	A12P12	32FR68
12.75"	6.88"	A14P8	32FR82
12.75"	10.88"	A14P12	32FR80
13.00"	9.00"	A16P12	32FT25
13.00"	13.00"	A16P16	32FT28
14.20"	10.20"	CP1612	32FK10
14.20"	14.20"	CP1616	32FK12
14.75"	8.88"	A16P10	32FR83
14.75"	12.88"	A16P14	32FR69
15.00"	15.00"	A18P18	32FT30
16.75"	14.88"	A18P16	32FT29
17.00"	13.00"	A20P16	32FT31
17.00"	17.00"	A20P20	32FT35
18.20"	14.20"	CP2016	32FK14
18.20"	18.20"	CP2020	32FK16
21.00"	13.00"	A24P16	32FT37
21.00"	17.00"	A24P20	32FT40
21.00"	21.00"	A24P24	32FT44
22.20"	14.20"	CP2416	32FK18
22.20"	18.20"	CP2420	32FK20
22.20"	22.20"	CP2424	32FK22
27.00"	17.00"	A30P20	32FT48
27.00"	21.00"	A30P24	32FT50
27.00"	27.00"	A30P30	32FT54
28.20"	18.20"	CP3020	32FK25
28.20"	22.20"	CP3024	32FK26
28.20"	28.20"	CP3030	32FK28
33.00"	21.00"	A36P24	32FT55
33.00"	27.00"	A36P30	32FT57
33.00"	33.00"	A36P36	32FT61
34.20"	22.20"	CP3624	32FK30
34.20"	28.20"	CP3630	32FK32
34.20"	34.20"	CP3636	32FK34
37.00"	29.00"	A40P30	32FT62
39.00"	21.00"	A42P24	32FT63
39.00"	27.00"	A42P30	32FT64
39.00"	33.00"	A42P36	32FT66
40.20"	34.20"	CP4236	32FK37
44.00"	44.00"	A48P48	32FT72
45.00"	21.00"	A48P24	32FT68
45.00"	27.00"	A48P30	32FT69
45.00"	33.00"	A48P36	32FT70
46.20"	22.20"	CP4824	32FK38
46.20"	34.20"	CP4836	32FK39
56.00"	44.00"	A60P48	32FR56
56.00"	56.00"	A60P60	32FR58
57.00"	33.00"	A60P36	32FT73
58.20"	34.20"	CP6036	32FK41
68.00"	56.00"	A72P60	32FR60
69.00"	33.00"	A72P36	32FT75



Disconnect Switch
No. 4B983

SQUARE D by Schneider Electric

Flange-Mounted Disconnect Switches

Complete kit requires a disconnect switch, handle, and door-closing mechanism.

NONFUSIBLE AND FUSIBLE MECHANISMS

- Include disconnect switch and operating mechanism; handle sold separately

UL 98 Listed and suitable as the main disconnect switch for a control panel. Ship assembled for right-hand operation, but can be easily converted to left-hand with no additional parts.

DOOR-CLOSING MECHANISMS

- Operating mechanism only; disconnect switch and handle sold separately

Primarily for flange-mounted disconnect switches and circuit breaker operating mechanisms, but can be used independently. For small- and medium-size single-door control enclosures.

30A Mfr. Model	30A Item No.	60A Mfr. Model	60A Item No.	100A Mfr. Model	100A Item No.	200A Mfr. Model	200A Item No.
Nonfusible Mechanisms							
9422TCN30	**3KK34**	9422TDN60	**2ETH7**	9422TEN10	**2ETH8**	9422TF1	**4B983**
Fusible Mechanisms (Class H,K,J,R Fuses)							
9422TCF30	**2VRN5**	9422TDF63	**3KK37**	9422TEF10	**3KK38**	9422TF2	**4B982**

Description	Mfr. Model	Item No.
6" Handles For Use With All NEMA Enclosures		
For Use With NEMA Steel Enclosures	9422A1	**4B989**
For Use With NEMA SS Enclosures	9422A2	**4B988**
Door Closing Mechanisms Hinged Left		
For Use With NEMA 4, 12	9423M4	**4B980**
For Use With 6° Door Latch Handle	9423M9	**4B979**
Optional 3 Point Locking for Nos. 4B980 and 4B979 Door Latches	9423M3	**4B981**



No. 4B995

Schneider Electric

Door-Mount, Nonfusible Load Break Switches

- 3-pole

For applications where motor branch circuit protection is provided upstream of the switch. UL 508 nonfusible load break switches; UL 508 Listed as manual motor controllers. Complete with mounting handle operator, 13" shaft, door interlock plate, and line terminal shroud.

Amps AC	HP @ 240V	HP @ 480V	HP @ 600V	Mfr. Model	Item No.
Mechanisms					
20	5	10	10	VCCF1	**4B996**
25	5	10	15	VCCF2	**4B995**
45	15½	30	40	VCCF3	**4B994**

Description	For Use With	Mfr. Model	Item No.
Add-On Contact Modules			
Main Pole	Vario Model V1	VZ1	**4B993**
Main Pole	Vario Model V2	VZ2	**4B992**
Auxiliary Contact, 1NO/1NC	Vario Motor Control Switch	VZ7	**4B990**



No. 6UUJ9

RITTAL Hoffman

Oiltight Hole Seals

Provide a seal for unused push-button or conduit holes. Carbon Steel have a gray powder-coat finish. Rated NEMA 12.

Conduit Size (in.)	Hole Dia. (in.)	CARBON STEEL Item No.	STAINLESS STEEL Item No.	Conduit Size (in.)	Hole Dia. (in.)	CARBON STEEL Item No.	STAINLESS STEEL Item No.
Rittal				**Hoffman**			
½	⅞	**6UUK0**	—	½	⅞	**32FF56**	**32FF57**
¾	1 1/16	**6UUK1**	—	¾	1 1/16	**32FF58**	**32FF59**
1	1⅜	**6UUK3**	—	1	1⅜	**32FF60**	**32FF61**
1¼	1 11/16	**6UUK4**	—	1¼	1 11/16	**32FF62**	**32FF63**
1½	2	**6UUK5**	—	1½	2	**32FF64**	**32FF65**
2	2½	**6UUK6**	—	2	2½	**32FF66**	**32FF67**
2½	3	**6UUK7**	—	2½	3	**32FF68**	—
3	3⅝	**6UUK8**	—	3	3⅝	**32FF69**	—
3½	4⅛	**6UUK9**	—	3½	4⅛	**32FF70**	—
4	4⅝	**6UUL0**	—	4	4⅝	**32FF71**	—
22mm	⅞	**6UUJ9**	—	22mm	⅞	**32FF73**	**32FF74**
30mm	1¼	**6UUK2**	—	30mm	1¼	**32FF72**	**32FF75**
Condensate Drain		**6UUL1**	—				



No. 32FC79

Hoffman

Fiberglass Enclosures

- NEMA 4, 4X, 12, and 13
- IP66

These enclosures are durable in corrosive environments. Compression-molded fiberglass has outstanding chemical- and temperature-resistance, and is easily punched, drilled, filed, or sawed. Gasket assures water-tight and dust-tight seal. Corner latches provide unobstructed access. The continuous hinge provides a secure seal, and double-latching creates added security. Fiberglass material is light-gray inside and out.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel*	SOLID COVER WITH QUICK RELEASE LATCH Mfr. Model	SOLID COVER WITH QUICK RELEASE LATCH Item No.	COVER WITH QUICK RELEASE LATCH Mfr. Model	COVER WITH QUICK RELEASE LATCH Item No.	SOLID COVER WITH SCREW COVER Mfr. Model	SOLID COVER WITH SCREW COVER Item No.
6"	6"	4"	32FR66	A664CHQRFG	**32FC94**	—	—	A664CHSCFG	**32FC95**
8"	6"	4"	32FR93	A864CHQRFG	**32FC96**	A864CHQRFGW	**32FC97**	A864CHSCFG	**32FC98**
10"	8"	6"	32FR67	A1086CHQRFG	**32FC79**	A1086CHQRFGW	**32FC80**	A1086CHSCFG	**32FC81**
12"	10"	6"	32FR63	A12106CHQRFG	**32FC82**	A12106CHQRFGW	**32FC83**	A12106CHSCFG	**32FC84**
14"	12"	8"	32FR80	A14128CHQRFG	**32FC85**	A14128CHQRFGW	**32FC86**	A14128CHSCFG	**32FC87**
16"	14"	8"	32FR69	A16148CHQRFG	**32FC88**	A16148CHQRFGW	**32FC89**	A16148CHSCFG	**32FC90**
18"	16"	10"	32FT29	A181610CHQRFG	**32FC91**	A181610CHQRFGW	**32FC92**	A181610CHSCFG	**32FC93**

** Interior panels sold separately; see page 297.*

J Series Nonmetallic Enclosures

- Fiberglass
- Rated: NEMA 4X, 6P, 12
- Hinged covers

Designed for general electrical and electronic applications and any application that has associated environmental concerns. Built-in mounting capabilities and the strength characteristics associated with a protective wraparound cover. They enhance any instrument installation.



No. 52XE79



No. 52XC04

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	SCREW-DOWN CLOSURE Light Gray Mfr. Model	Item No.	SCREW-DOWN CLOSURE White Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE Light Gray Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE White Mfr. Model	Item No.
6"	4"	4"	None	—	—	HW-WHJ60404CHSCWW	**52XE81**	—	—	HW-WHJ60404CHQRWW	**52XE80**
6"	6"	4"	52XC69, 52XC70 or 52XC71	HW-J60604CHSCWW	**52XC34**	HW-WHJ60604CHSCWW	**52XE83**	HW-J60604CHQRWW	**52XC32**	HW-WHJ60604CHQRWW	**52XE82**
8"	6"	4"	52XC72, 52XC73 or 52XC74	HW-J80604CHSCWW	**52XC42**	HW-WHJ80604CHSCWW	**52XE85**	HW-J80604CHQRWW	**52XC40**	HW-WHJ80604CHQRWW	**52XE84**
10"	8"	4"	52XC50, 52XC51 or 52XC52	HW-J100804CHSCWW	**52XA77**	HW-WHJ100804CHSCWW	**52XE69**	HW-J100804CHQRWW	**52XA75**	HW-WHJ100804CHQRWW	**52XE68**
12"	10"	4"	52XC53, 52XC54 or 52XC55	—	—	HW-WHJ121005CHSCWW	**52XE71**	—	—	HW-WHJ121005CHQRWW	**52XE70**
12"	10"	5"	52XC53, 52XC54 or 52XC55	—	—	—	—	HW-J121005CHQRWW	**52XA83**	—	—
12"	10"	6"	52XC53, 52XC54 or 52XC55	HW-J121005CHSCWW	**52XA85**	—	—	—	—	—	—
14"	12"	6"	52XC56, 52XC57 or 52XC58	HW-J141206CHSCWW	**52XA94**	HW-WHJ141206CHSCWW	**52XE73**	HW-J141206CHQRWW	**52XA92**	HW-WHJ141206CHQRWW	**52XE72**
16"	14"	6"	52XC59, 52XC60 or 52XC61	HW-J161406CHSCWW	**52XC06**	HW-WHJ161406CHSCWW	**52XE75**	HW-J161406CHQRWW	**52XC04**	HW-WHJ161406CHQRWW	**52XE74**
18"	16"	8"	52XC62, 52XC63 or 52XC64	HW-J181608CHSCWW	**52XC15**	HW-WHJ181608CHSCWW	**52XE77**	HW-J181608CHQRWW	**52XC13**	HW-WHJ181608CHQRWW	**52XE76**
20"	16"	8"	52XC65, 52XC66 or 52XC68	HW-J201608CHSCWW	**52XC23**	HW-WHJ201608CHSCWW	**52XE79**	HW-J201608CHQRWW	**52XC21**	HW-WHJ201608CHQRWW	**52XE78**

J Series Nonmetallic Enclosures With Window

- Fiberglass
- NEMA 4X, 6P, and 12
- Hinged covers

These enclosures are ideal for general electrical and electronic applications and any applications that are associated with environmental concerns. They feature window and built-in mounting capabilities with the strength characteristics associated with a protective wraparound cover.



No. 52XC12

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	LIFT OFF COVER, 4 SCREWS Mfr. Model	Item No.	SCREW-DOWN CLOSURE Mfr. Model	Item No.	TWIST-LATCH CLOSURE Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE Mfr. Model	Item No.
6"	6"	4"	52XC69, 52XC70 or 52XC71	HW-J60604SCWWW	**52XC39**	HW-J60604CHSCWWW	**52XC35**	HW-J60604CHTLWWW	**52XC37**	HW-J60604CHQRWWW	**52XC33**
8"	6"	4"	52XC72, 52XC73 or 52XC74	HW-J80604SCWWW	**52XC48**	HW-J80604CHSCWWW	**52XC43**	HW-J80604CHTLWWW	**52XC45**	HW-J80604CHQRWWW	**52XC41**
10"	8"	4"	52XC50, 52XC51 or 52XC52	HW-J100804SCWWW	**52XA82**	HW-J100804CHSCWWW	**52XA78**	HW-J100804CHTLWWW	**52XA80**	HW-J100804CHQRWWW	**52XA76**
12"	10"	6"	52XC53, 52XC54 or 52XC55	HW-J121005SCWWW	**52XA91**	HW-J121005CHSCWWW	**52XA86**	HW-J121005CHTLWWW	**52XA88**	HW-J121005CHQRWWW	**52XA84**
14"	12"	6"	52XC53, 52XC54 or 52XC55	—	—	HW-J141206CHSCWWW	**52XA95**	—	—	—	—
14"	12"	6"	52XC56, 52XC57 or 52XC58	HW-J141206SCWWW	**52XC03**	—	—	HW-J141206CHTLWWW	**52XA97**	HW-J141206CHQRWWW	**52XA93**
16"	14"	6"	52XC59, 52XC60 or 52XC61	HW-J161406SCWWW	**52XC12**	HW-J161406CHSCWWW	**52XC07**	HW-J161406CHTLWWW	**52XC09**	HW-J161406CHQRWWW	**52XC05**
18"	16"	8"	52XC62, 52XC63 or 52XC64	HW-J181608SCWWW	**52XC20**	HW-J181608CHSCWWW	**52XC16**	HW-J181608CHTLWWW	**52XC18**	HW-J181608CHQRWWW	**52XC14**
20"	16"	8"	52XC65, 52XC66 or 52XC68	HW-J201608SCWWW	**52XC31**	HW-J201608CHSCWWW	**52XC24**	HW-J201608CHTLWWW	**52XC25**	HW-J201608CHQRWWW	**52XC22**

RJ Series Nonmetallic Enclosures

- Fiberglass
- NEMA 4X, 6P, and 12
- Hinged covers
- Light Gray

These enclosures are engineered with a poured polyurethane seamless gasket that provides a watertight and dust-tight environmental seal. Molded-in panel flange.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	Mfr. Model	Item No.
6"	4"	6"	None	HW-RHJ60405CHQRWW	**52XE64**
6"	6"	6"	52XC69, 52XC70 or 52XC71	HW-RHJ60606CHQRWW	**52XE65**
8"	6"	6"	52XC72, 52XC73 or 52XC74	HW-RHJ80606CHQRWW	**52XE66**
8"	8"	6"	Mfr. No. HW-MP808AWW, HW-MP808CSWW, HW-MP808FGWW	HW-RHJ80806CHQRWW	**52XE67**
10"	8"	6"	52XC50, 52XC51 or 52XC52	HW-RHJ100806CHQRWW	**52XE57**
12"	10"	6"	52XC53, 52XC54 or 52XC55	HW-RHJ121006CHQRWW	**52XE58**
12"	12"	8"	None	HW-RHJ121207CHQRWW	**52XE59**
14"	12"	8"	52XC56, 52XC57 or 52XC58	HW-RHJ141207CHQRWW	**52XE60**
16"	14"	8"	52XC59, 52XC60 or 52XC61	HW-RHJ161407CHQRWW	**52XE61**
18"	16"	10"	52XC62, 52XC63 or 52XC64	HW-RHJ181610CHQRWW	**52XE62**
20"	16"	10"	52XC65, 52XC66 or 52XC68	HW-RHJ201610CHQRWW	**52XE63**



No. 52XE63

S Series Nonmetallic Enclosures

- Polycarbonate
- Screw-on covers

Constructed with foam gasket, these enclosures are lightweight and watertight. They include accessory hardware bag and are designed for wall mounting.



Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	OPAQUE COVER Mfr. Model	Item No.	CLEAR COVER Mfr. Model	Item No.
2"	2"	2"	HW-S605055WW	**52XD74**	HW-S605055SWW	**52XD75**
3"	3"	2"	HW-S808005WW	**52XD84**	HW-S808005CCWW	**52XD85**
3"	3"	3"	HW-S808009WW	**52XD86**	HW-S808009CCWW	**52XD87**
3"	3"	3"	—	—	HW-S808009SSWW	**52XD88**
3"	3"	4"	HW-S808010WW	**52XD89**	HW-S808010CCWW	**52XD90**
4"	2"	2"	HW-S906003WW	**52XD91**	HW-S906003CCWW	**52XD92**
5"	3"	2"	HW-S1208055WW	**52XD02**	HW-S1208055CWW	**52XD03**
5"	3"	2"	—	—	HW-S1208055CCWW	**52XD04**
5"	3"	3"	HW-S1208080WW	**52XD05**	HW-S1208080CCWW	**52XD06**
5"	5"	2"	HW-S12012055WW	**52XC97**	HW-S12012055CCWW	**52XC98**
5"	5"	3"	HW-S12012075WW	**52XC99**	HW-S12012075CCWW	**52XD01**
5"	5"	4"	HW-S120120110WW	**52XC95**	HW-S120120110CCWW	**52XC96**
6"	3"	2"	HW-S1608055WW	**52XD22**	HW-S1608055CCWW	**52XD23**
6"	3"	4"	HW-S1608090WW	**52XD24**	HW-S1608090CCWW	**52XD25**
6"	5"	2"	HW-S16012055WW	**52XD16**	HW-S16012055CCWW	**52XD17**
6"	5"	3"	HW-S16012075WW	**52XD18**	HW-S16012075CCWW	**52XD19**
6"	5"	3"	HW-S16012090WW	**52XD20**	HW-S16012090CCWW	**52XD21**
6"	5"	5"	HW-S160120140WW	**52XD14**	HW-S160120140CCWW	**52XD15**
8"	5"	3"	HW-S20012055WW	**52XD26**	HW-S20012055CCWW	**52XD27**
8"	5"	3"	HW-S20012075WW	**52XD28**	HW-S20012075CCWW	**52XD29**
8"	5"	4"	HW-S20012090WW	**52XD30**	HW-S20012090CCWW	**52XD31**
8"	6"	4"	HW-S200150100WW	**52XD32**	HW-S200150100CCWW	**52XD33**
8"	6"	5"	HW-S200150130WW	**52XD34**	HW-S200150130CCWW	**52XD35**
10"	6"	3"	HW-S25016090WW	**52XD54**	HW-S25016090CCWW	**52XD55**
10"	6"	4"	HW-S250160110WW	**52XD48**	HW-S250160110CCWW	**52XD49**
10"	6"	5"	HW-S250160120WW	**52XD50**	HW-S250160120CCWW	**52XD51**
10"	6"	6"	HW-S250160150WW	**52XD52**	HW-S250160150CCWW	**52XD53**
12"	10"	3"	HW-S30023085WW	**52XD70**	HW-S30023085CCWW	**52XD71**
12"	10"	4"	HW-S300230110WW	**52XD68**	HW-S300230110CCWW	**52XD69**
14"	8"	6"	HW-S360200150WW	**52XD72**	HW-S360200150CCWW	**52XD73**



No. 52XD62

S Series NEMA 4X Nonmetallic Enclosures

- Fiberglass

These lightweight and watertight enclosures are designed with a foam gasket. They are wall mountable and include accessory hardware bag. IP66 rated.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	SCREW ON COVER Opaque Mfr. Model	Item No.	SCREW ON COVER Clear Mfr. Model	Item No.	HINGED COVER Opaque Mfr. Model	Item No.	HINGED COVER Clear Mfr. Model	Item No.
7"	5"	5"	52XA68 or 52XA69	HW-S755WW	**52XD76**	—	—	—	—	—	—
7"	5"	5"	None	—	—	HW-S755CCWW	**52XD77**	—	—	—	—
10"	7"	6"	52XA53, 52XA54 or 52XA55	—	—	HW-S1076CTWW	**52XC91**	—	—	—	—
14"	10"	6"	52XA56, 52XA57 or 52XA58	HW-S14106WW	**52XD07**	—	—	—	—	HW-S14106CTWW	**52XD08**
28"	14"	8"	52XA64 or 52XA65	HW-S28148WW	**52XD56**	HW-S28148CTWW	**52XD57**	—	—	—	—
28"	21"	8"	52XA66 or 52XA67	HW-S28218WW	**52XD62**	HW-S28218CTWW	**52XD63**	—	—	—	—



No. 52XC75



No. 52XC77

N Series NEMA 4X Nonmetallic Control Enclosures

- Fiberglass
- NEMA 4X, 12
- Stainless steel hinge
- Latch down cover

Designed to accommodate electrical, electronic, instrumentation, and mechanical controls indoors and outdoors to provide protection against windblown dust and rain, splashing and hose directed water.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	OPAQUE COVER Mfr. Model	Item No.	CLEAR COVER Mfr. Model	Item No.
20"	16"	8"	52XD93 or 52XD94	HW-N4X201608CHWW	**52XC75**	—	—
20"	16"	10"	52XD93 or 52XD94	HW-N4X201610CHWW	**52XC76**	HW-N4X201610CHWWW	**52XC77**
24"	20"	8"	52XD95 or 52XD96	HW-N4X242008CHWW	**52XC78**	HW-N4X242008CHWWW	**52XC79**
30"	20"	8"	52XD97 or 52XD98	HW-N4X302008CHWW	**52XC80**	—	—
30"	20"	10"	52XD97 or 52XD98	HW-N4X302010CHWW	**52XC81**	HW-N4X302010CHWWW	**52XC82**
36"	30"	10"	52XD99 or 52XE01	HW-N4X363010CHWW	**52XC83**	—	—
36"	30"	12"	52XD99 or 52XE01	HW-N4X363012CHWW	**52XC84**	HW-N4X363012CHWWW	**52XC85**
48"	36"	12"	52XE02 or 52XE03	HW-N4X483612CHWW	**52XC86**	HW-N4X483612CHWWW	**52XC87**

No. 52XA72



DuraBoxx® Series Nonmetallic Enclosures

- Fiberglass
- NEMA 4X, 6P, and 12
- Screw-on covers

Designed for durable performance in both commercial and industrial indoor and outdoor environments like mining, oil, gas, wastewater treatment, and petrochem. Sleek design with shallow depths and flush cover construction makes them well suited for high-end electronic applications like wireless communications and operator interfaces.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Enclosure Cover Features	Mfr. Model	Item No.
5"	5"	4"	Opaque	HW-D554SCWW	**52XA70**
5"	5"	4"	Clear	HW-DCC554WWW	**52XA72**
5"	9"	3"	Clear	HW-DCC593WWW	**52XA73**
5"	9"	3"	Clear	HW-DCC594WWW	**52XA74**
6"	6"	4"	Opaque	HW-D774SCWW	**52XA71**

No. 6C739

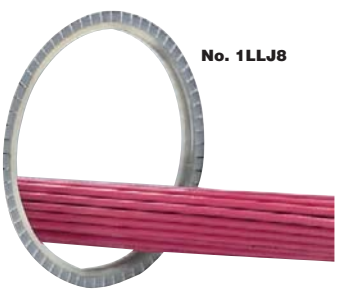


Electrical Enclosure Window and Louver Plate Kits

Easy to install: Simply make a cutout in the enclosure and attach the window or louver and frame. All necessary hardware included.

Window Height (in.)	Window Width (in.)	Frame Height	Frame Width	Cut Out Height	Cut Out Width	Item No.
Steel Window Kits, For NEMA 12 Enclosures, ANSI 61 Polyester Powder Finish, Fully Gasketed						
5.00	3.00	7.50"	5½"	6.69"	4.69"	**4KP44**
9.00	5.50	11.50"	8½"	10.69"	7.19"	**4KP46**
13.0	8.00	15.50"	10½"	14.69"	9.69"	**4KP48**
Type 304 Stainless Steel Window Kit, For NEMA 12 and 13 Enclosures, Fully Gasketed						
13.0	8.00	15.50"	10½"	14.69"	9.69"	**4KP49**
14-Ga. Steel Louver Plate Kits, ANSI Enamel Finish						
—	—	4.75"	4½"	3.50"	3.25"	**2AAR6**
3.00	4.00	4.50"	5½"	3.50"	4.25"	**6C739**
—	—	5.62"	5½"	4.37"	4.25"	**2AAR7**
4.00	6.00	5.63"	7½"	4.37"	6.25"	**6C740**
—	—	7.87"	7½"	6.62"	6.25"	**2AAR8**
6.00	8.00	8.19"	9½"	6.93"	8.25"	**6C741**

No. 1LLJ8



Adhesive-Lined Grommet Edging

- Sold in 100-ft. lengths

Pressure-sensitive adhesive secures edging in place to protect wires and cables against chafing. Slotted-wall items are for irregularly shaped and round panel holes. Solid-wall items are for straight edges. Natural color.

Min. Panel Thickness	Max. Panel Thickness	SLOTTED Mfr. Model	Item No.	SOLID Mfr. Model	Item No.
0.036"	0.062"	GEE62F-A-C	**1LLJ8**	GES62F-A-C	**1LLJ9**
0.062"	0.099"	GEE99F-A-C	**1LLK1**	GES99F-A-C	**1LLK2**

No. 3A922

Interior Panels

For use with JIC and NEMA enclosures.

H	L	Item No.	H	L	Item No.	H	L	Item No.
4.25"	4.25"	**1ZHF9**	10.25"	10.25"	**2W822**	21.00"	17.00"	**6XC19**
4.88"	2.88"	**4LV58**	10.88"	8.88"	**6XC22**	21.00"	21.00"	**2W829**
4.88"	4.88"	**6XC20**	10.88"	10.88"	**4KP36**	27.00"	17.00"	**6C755**
6.25"	4.25"	**2W821**	12.25"	—	**2W823**	27.00"	21.00"	**3A924**
6.25"	—	**6C754**	12.88"	10.88"	**6XC23**	33.00"	21.00"	**3A932**
6.88"	4.88"	**3A926**	13.00"	9.00"	**2W827**	33.00"	27.00"	**3A933**
6.88"	6.88"	**6XC21**	14.88"	12.88"	**3A930**	50.00"	38.00"	**1ZHG8**
8.25"	6.25"	**3A904**	17.00"	13.00"	**2W828**	60.00"	48.00"	**1ZHG9**
8.88"	6.88"	**3A928**	17.00"	17.00"	**3A922**	60.00"	60.00"	**1ZHH1**
10.25"	8.25"	**3A937**	21.00"	13.00"	**6XC18**	72.00"	72.00"	**1ZHH3**

Enclosure Air Conditioners

Hoffman

These units feature head pressure control for low ambient operation, compressor heater, coated condenser coil, malfunction switch, and thermostat and heater package. They are ideal for industrial automation, telecommunications equipment, package handing equipment, and security and defense systems.

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
Enclosures Rated NEMA 12						
Single-Phase						
908/1023 BtuH	110/115	4.1/3.9	17.64"	12.00"	8.40"	**32FP57**
969/1184 BtuH	220/208-230	2.3/2.1	17.64"	12.00"	8.40"	**32FP56**
969/1184 BtuH	400/460	1.2/1.2	22.14"	12.00"	8.40"	**32FP87**
1398/1776 BtuH	110/115	7.0/7.1	17.64"	12.00"	8.40"	**32FP59**
1513/1727 BtuH	220/208-230	4.0/3.6 to 3.5	17.64"	12.00"	8.40"	**32FP58**
1513/1727 BtuH	400/460	2.0/2.0	22.14"	12.00"	8.40"	**32FP88**
2200/2200 BtuH	115	9.8/9.0	10.25"	17.00"	21.08"	**32FP29**
2200/2200 BtuH	220/230	5.5/4.6	10.25"	17.00"	21.08"	**32FP28**
3300/4000 BtuH	110/115	14.7/13.6	10.25"	17.00"	21.08"	**32FP31**
3300/4000 BtuH	220/230	8.0/7.5	10.25"	17.00"	21.08"	**32FP30**
3800/4000 BtuH	115	11.7/10.3	28.55"	16.97"	10.10"	**32FP61**
4600/4900 BtuH	230	4.6/5.8	28.55"	16.97"	10.10"	**32FP84**
6000/6400 BtuH	115	9.9/11.4	28.55"	16.97"	10.10"	**32FP67**
6000/6400 BtuH	230	4.6/5.8	28.55"	16.97"	10.10"	**32FP65**
7075/8133 BtuH	115	18.8/20.4	15.25"	17.00"	25.19"	**32FP32**
7075/8133 BtuH	230	9.4/10.2	15.25"	17.00"	25.19"	**32FP33**
7300/8200 BtuH	115	11.2/12.3	52.69"	17.12"	11.66"	**32FP73**
7300/8200 BtuH	230/208-230	5.6/7.0 to 6.2	52.69"	17.12"	11.66"	**32FP71**
12,000/12,500 BtuH	115	16.1/21	52.69"	17.12"	11.66"	**32FP79**
12,000/12,500 BtuH	230/208-230	9.1/10.6 to 9.5	52.69"	17.12"	11.66"	**32FP77**
19,000/20,500 BtuH	230	19.0/22.0	57.69"	20.87"	15.28"	**32FP85**
3-Phase						
4600/4900 BtuH	400/460	1.7/1.9	28.55"	16.97"	10.10"	**32FP63**
5400/6000 BtuH	400/460	1.3/1.4	28.55"	16.97"	10.10"	**32FP69**
8800/9800 BtuH	400/460	3.1/3.2	52.69"	17.12"	11.66"	**32FP75**
11,100/12,000 BtuH	400/460	3.6/3.5	52.69"	17.12"	11.66"	**32FP81**
21,400/23,400 BtuH	400/460	6.0/6.8	57.69"	20.87"	15.28"	**32FP83**



No. 32FP61



No. 32FP71

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
Enclosures Rated NEMA 4X						
Single-Phase						
1800/2000 BtuH	115	7	20.00"	10.00"	9.90"	**32FP27**
3800/4000 BtuH	115	11.7/10.3	28.55"	16.97"	10.10"	**32FP62**
4600/4900 BtuH	230	4.6/5.8	28.55"	16.97"	10.10"	**32FP60**
6000/6400 BtuH	115	9.9/11.4	28.55"	16.97"	10.10"	**32FP68**
6000/6400 BtuH	230	4.6/5.8	28.55"	16.97"	10.10"	**32FP66**
7300/8200 BtuH	115	11.2/12.3	52.69"	17.12"	11.66"	**32FP74**
7300/8200 BtuH	230/208-230	5.6/7.0 to 6.2	52.69"	17.12"	11.66"	**32FP72**
12,000/12,500 BtuH	115	16.1/21.0	52.69"	17.12"	11.66"	**32FP80**
12,000/12,500 BtuH	230/208-230	9.1/10.6 to 9.5	52.69"	17.12"	11.66"	**32FP78**
3-Phase						
4600/4900 BtuH	400/460	1.7/1.9	28.55"	16.97"	10.10"	**32FP64**
5400/6000 BtuH	400/460	1.7/1.9	28.55"	16.97"	10.10"	**32FP70**
8800/9800 BtuH	400/460	3.1/3.2	52.69"	17.12"	11.66"	**32FP76**
11,100/12,000 BtuH	400/460	3.6/3.5	52.69"	17.12"	11.66"	**32FP82**
21,400/23,400 BtuH	400/460	6.0/6.8	57.69"	20.87"	15.28"	**32FP86**

Enclosure Air Conditioners—NEMA 12 and 4X

RITTAL

- Adjustable temp. setpoint: 68° to 131°F (except Nos. 2PUX6 and 2PUX7)
- Status display includes enclosure temperature
- Terminal-block connection

Condenser coil is coated to stay cleaner for consistent performance even in harsh environments. Feature icing protection, startup delay, and connection for a door limit switch. Side-mount models feature air inlets and outlets positioned for optimal heat dissipation.

Wall-mount units greater than 3600 BtuH and all top-mount units have an integrated condensate evaporator. Roof-mount models feature 4 cold-air outlets and a central hot-air inlet.

Nos. 2PUX6 and 2PUX7 have basic display and controls with over-temperature alarm, and can only be set down to 86°F. All others feature configurable alarm, logging capability, master-slave operation for up to 10 units. 3-phase units include phase monitoring.



No. 2PUX8



No. 2PUZ7



No. 2PVA8



No. 2PVD5

Cooling Cap.	Voltage	Phase	Amps	H	W	D	Item No.
Enclosure Air Conditioners, NEMA 12							
Wall Mount							
1093 BtuH	115	Single	3.3	22.00"	11.00"	6.00"	**2PUX6** *†‡
1093 BtuH	230	Single	1.6/1.7	22.00"	11.00"	6.00"	**2PUX7** †‡
2083 BtuH	115	Single	5.7	22.00"	11.00"	8.00"	**2PUX8** *†
2083 BtuH	230	Single	2.6	22.00"	11.00"	8.00"	**2PUX9** †
2664 BtuH	115	Single	5.3	22.00"	11.00"	11.00"	**2PUY1** *†
2664 BtuH	230	Single	2.7/2.7	22.00"	11.00"	11.00"	**2PUY2** †
3620 BtuH	115	Single	10.6/11.1	37.00"	16.00"	10.00"	**2PUY3**
3620 BtuH	230	Single	5.4/5	37.00"	16.00"	10.00"	**2PUY4**
3620 BtuH	400/460	3	2.5/2.6	37.00"	16.00"	10.00"	**2PUY5**
5119 BtuH	110-240/380-480VAC	—	—	37.00"	16.00"	12.00"	**56DY99**
5157 BtuH	115	Single	11.5/12.5	37.00"	16.00"	10.00"	**2PUY6**
5157 BtuH	230	Single	5.5/5.8	37.00"	16.00"	10.00"	**2PUY7**
5157 BtuH	400/460	3	2.8/2.9	37.00"	16.00"	10.00"	**2PUY8**
6824 BtuH	110-240/380-480VAC	—	—	63.00"	18.00"	12.00"	**56DZ01**
8026 BtuH	115	Single	13.4/14.8	62.00"	16.00"	11.00"	**2PUY9**
8026 BtuH	230	Single	6.1/6.6	62.00"	16.00"	11.00"	**2PUZ1**
8026 BtuH	400/460	3	2.8/3.3	62.00"	16.00"	11.00"	**2PUZ2**
9392 BtuH	115	Single	17/22	62.00"	16.00"	11.00"	**2PUZ3**
9392 BtuH	230	Single	8.2/9.3	62.00"	16.00"	11.00"	**2PUZ4**
9392 BtuH	400/460	3	3.7/3.8	62.00"	16.00"	11.00"	**2PUZ5**
9553 BtuH	110-240/380-480VAC	—	—	63.00"	18.00"	12.00"	**56DZ02**
14,343 BtuH	380-480VAC	—	—	63.00"	18.00"	15.00"	**56DZ03**
15,027 BtuH	400/460	3	4.2/4.2	62.00"	20.00"	13.00"	**2PUZ6**
19,808 BtuH	380-480VAC	—	—	63.00"	18.00"	15.00"	**56DZ04**
Roof Mount							
1742 BtuH	115	Single	4.7/5.4	16.00"	24.00"	15.00"	**2PUZ7**
1742 BtuH	230	Single	2.3/2.6	16.00"	24.00"	15.00"	**2PUZ8**
3688 BtuH	115	Single	6.2/8.4	16.00"	24.00"	19.00"	**2PUZ9**
3688 BtuH	230	Single	2.9/3.9	16.00"	24.00"	19.00"	**2PVA1**
5191 BtuH	115	Single	8.5/15.3	16.00"	24.00"	19.00"	**2PVA2**
5191 BtuH	230	Single	3.9/4.8	16.00"	24.00"	19.00"	**2PVA3**
7274 BtuH	115	Single	14.2/15.4	16.00"	24.00"	19.00"	**2PVA4**
7274 BtuH	230	Single	5.9/6.3	16.00"	24.00"	19.00"	**2PVA5**
11,270 BtuH	400/460	3	3.4/3.4	19.00"	31.00"	23.00"	**2PVA6**
14,346 BtuH	400/460	3	3.9/3.9	19.00"	31.00"	23.00"	**2PVA7**

** 60 Hz only. † No condensate evaporator. ‡ Basic controller.*

Cooling Cap.	Voltage	Phase	Amps	H	W	D	Item No.
Enclosure Air Conditioners, NEMA 4X							
Wall Mount							
2252 BtuH	115	Single	5.7	24.00"	11.00"	12.00"	**2PVA8** *†
2252 BtuH	230	Single	2.6/2.6	24.00"	11.00"	12.00"	**2PVA9** †
3753 BtuH	115	Single	10.6/11.1	40.00"	16.00"	14.00"	**2PVC1**
3753 BtuH	230	Single	3.9/4.3	40.00"	16.00"	14.00"	**2PVC2**
3753 BtuH	400/460	3	2.2/2.1	40.00"	16.00"	14.00"	**2PVC3**
5459 BtuH	115	Single	12.1/13.6	40.00"	16.00"	14.00"	**2PVC4**
5459 BtuH	400/460	3	2.6/2.8	40.00"	16.00"	14.00"	**2PVC6**
7506 BtuH	230	Single	6.1/6.6	65.00"	16.00"	15.00"	**2PVC8**
7506 BtuH	400/460	3	2.8/3.3	65.00"	16.00"	15.00"	**2PVC9**
8701 BtuH	230	Single	8.2/9.3	65.00"	16.00"	15.00"	**2PVD2**
8701 BtuH	400/460	3	3.7/3.8	65.00"	16.00"	15.00"	**2PVD3**
Heat Exchangers, NEMA 12							
2047/2388 BtuH	230VDC	—	—	20.00"	8.00"	4.00"	**56DZ06**
10,236 BtuH	115VDC	—	—	37.00"	16.00"	6.00"	**56DZ05**
17,060 BtuH	230VDC	—	—	55.00"	18.00"	9.00"	**56DZ07**

For Use With	Material	Mfr. Model	Item No.
Electrical Enclosure Air Conditioners Accessories			
Filters			
2PUX6, 2PUX7, 2PUX8, 2PUX9, 2PUY1, 2PUY2	Aluminum	3286310	**2PVD5**
	Polyurethane	3286300	**2PVD4**
2PUY3, 2PUY4, 2PUY5, 2PUY6, 2PUY7, 2PUY8, 2PUY9, 2PUZ1, 2PUZ2, 2PUZ3, 2PUZ4, 2PUZ5, 2PUZ6	Aluminum	3286410	**2PVD7**
	Polyurethane	3286400	**2PVD6**
2PUZ7, 2PUZ8, 2PUZ9, 2PVA1, 2PVA2, 2PVA3, 2PVA4, 2PVA5	Aluminum	3286510	**2PVD9**
	Polyurethane	3286500	**2PVD8**
—	—	3285900	**56DY95**
	—	3285910	**56DY96**
Door-Operated Switches			
2PUX6, 2PUX7, 2PUX8, 2PUX9, 2PUY1, 2PUY2, 2PUY3, 2PUY4, 2PUY5, 2PUY6, 2PUY7, 2PUY8, 2PUY9, 2PUZ1, 2PUZ2, 2PUZ3, 2PUZ4, 2PUZ5, 2PUZ6, 2PUZ7, 2PUZ8, 2PUZ9, 2PVA1, 2PVA2, 2PVA3, 2PVA4, 2PVA5, 2PVA6, 2PVA7, 2PVA8, 2PVA9, PVC1, PVC2, PVC3, PVC4, PVC5, PVC6, PVC7, PVC8, PVC9, PVD1, PVD2, 2PVD3	—	4127010	**2PVG5**

Enclosure Filter Fans

Hoffman

Feature click-fit design to quickly install into enclosure wall with no tools or screws required. They open with a flick of the finger for easy filter replacement.



No. 53DD90

CFM @ 0.000" SP	Fan Height	Fan Width	Fan Depth	115 V AC Mfr. Model	115 V AC Item No.	24 V DC Mfr. Model	24 V DC Item No.	230 V AC Mfr. Model	230 V AC Item No.	230VAC Mfr. Model	230VAC Item No.
Wet-Location Square Axial Fan											
21	4 27/64"	4 27/64"	3 3/8"	HF0416414	**53DE04**	—	—	HF0426414	**53DD99**	—	—
35	6 9/64"	6 9/64"	4"	HF0516414	**53DE03**	HF0524414	**53DD93**	HF0526414	**53DE07**	—	—
70	8 1/16"	8 1/16"	4 3/16"	HF0916414	**53DD98**	—	—	HF0926414	**53DE05**	—	—
159	10 1/8"	10 1/8"	4 11/16"	HF1016414	**53DD94**	—	—	HF1026414	**53DE06**	—	—
395	12 51/64"	12 51/64"	6 3/8"	HF1316414R	**53DD97**	—	—	HF1326414R	**53DD95**	—	—
484	12 51/64"	12 51/64"	6 3/8"	HF1316424	**53DD90**	—	—	—	—	—	—
Exhaust Grill and Filter											
—	12.80"	1.75"	12.82"	—	—	—	—	—	—	HG1300404	**53DD91**
—	10.13"	1.69"	10.14"	—	—	—	—	—	—	HG1000404	**53DD92**
—	8.19"	1.65"	8.21"	—	—	—	—	—	—	HG0900404	**53DD96**
—	6.15"	1.53"	6.16"	—	—	—	—	—	—	HG0500404	**53DE01**
—	4.42"	1.60"	4.44"	—	—	—	—	—	—	HG0400404	**53DE02**



No. 32FP91

Hoffman

Thermo-Electric Enclosure Coolers

Minimize downtime and component loss by removing heat around critical components within an enclosure. Compact and low-profile coolers use the Peltier effect to allow cooling of small indoor and outdoor enclosures without a compressor.

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
321 BtuH	24VDC	8.5	12.01"	6.18"	7.17"	**32FP91**
321 BtuH	48VDC	4.4	12.01"	6.18"	7.17"	**32FP92**
567 BtuH	24VDC	14.7	15.94"	7.36"	7.01"	**32FP93**



Enclosure Heaters

Hoffman

Enclosure Heaters

Provide freeze and condensation protection in cabinets, control panels, and other enclosures.

Watts	H	W	L	120 V AC Item No.	240 V AC Item No.
100	5½"	4"	4 13/16"	**32FL34**	—
200	5½"	4"	4 13/16"	**32FK99**	**32FK96**
400	7½"	4¼"	5 3/16"	**32FL01**	**32FK97**
800	7½"	4¼"	5 3/16"	**32FL02**	**32FK98**



No. 13M181



No. 6XT27

VORTEC

Coolers for Industrial Enclosures

Quick Install models are 78% quieter and can be top-, side-, or front-mounted. Hazardous Location models include cold air check valve and require a separate purge system. Class I, Div.2; Groups A-D Class II, Div.2; Groups F and G Class III. All models include thermostat, 5-micron auto-drain filter, and cold air ducting kit.

BtuH	SCFM @ 100 psi	NEMA TYPE 12 Item No.	4 Item No.	4X Item No.	Haz. Loc. Item No.
Mechanical Thermostat, Quick Install					
900	15	**13M181**	**13M185**	**13M185**	**13M177**
1500	25	**13M182**	**13M186**	**13M186**	**13M178**
2500	35	**13M183**	**13M187**	**13M187**	**13M179**
5000	70	**13M184**	**13M188**	**13M188**	**13M180**
Electric Thermostat					
400	8	**6XT26**	—	—	—
900	15	**6XT23**	**6XT24**	**6XT25**	—
1500	25	**6XT28**	**6XT27** *	—	—
1700	25	—	**6XT30**	**6XT32**	—
2500	35	**6XT29**	**6XT31**	**6XT33**	—

** Mechanical thermostat controlled.*



No. 1ZHC1

HUBBELL WIEGMANN

Enclosure Heaters

- Anodized, extruded aluminum body
- 35mm DIN rail clip count

Heaters maintain minimum temperatures in enclosures and help prevent condensation.

WARNING: Do not mount on wooden structures. Avoid placement near heat-sensitive components.

RADIANT (15 TO 150W)

Positive temperature coefficient heaters maintain stable enclosure temperatures, promoting reliable performance and extending component life. Fitted with push-type terminal connections. Black color. Class 1 Protection; tested for grounding at 1600V.

Type	Watts	Volts/Phase	H	L	W	Mfr. Model	Item No.
Radiant	75	110-250 / 1	5½"	7"	2⅞"	EHG075	**1ZHC1**



No. 2AVH5



No. 1ZHR3



No. 1ZHR9

HUBBELL WIEGMANN

Enclosure Fans

- Vertical mount
- 1-phase, 50/60 Hz

FILTER FANS

For cooling or pressurizing industrial enclosures. Slim-profile grille protrudes less than ¼" and snaps into place for easy mounting.

MUFFIN FANS

Designed for reliable cooling of enclosures where space is limited. Glass-reinforced plastic impeller; black, die-cast aluminum housing, 24" lead wire with 90° attached plug, and wire mesh guard.

Fan Dia.	Shape	Voltage	CFM @ 0.000" SP	Watts	dBA	H	W	D	Housing Material	Item No.
Filter Fans										
—	Square	115VAC	423	122	71	12 51/64"	12⅘"	6⅛"	Polycarbonate	**2AVH5**
Muffin Fans										
—	Square	115VAC	88/110	17/15	37	4 23/32"	4-5/7"	1½"	Plastic/Steel	**1ZHR3**
—	Square	230VAC	88/110	17/15	37	4 23/32"	4-5/7"	1½"	Plastic/Steel	**1ZHR4**
6"	Round	115VAC	190/235	26/35	46	6 25/32"	6-7/9"	2"	Plastic/Steel	**1ZHR9**
6"	Round	230VAC	190/235	26/35	46	6 25/32"	6-7/9"	2"	Plastic/Steel	**1ZHT1**
10"	Round	115VAC	547	35	55	10"	10"	3½"	Plastic/Steel	**1ZHP9**

Radiator Connection	Material	Item No.
Replacement Muffin Fan Finger Guards, Mountable on Either Side of Fan		
4 23/32"	Electroplated Nickel Chrome Steel	**1ZHV8**
6 25/32"	Electroplated Nickel Chrome Steel	**1MDU5**
10"	Electroplated Nickel Chrome Steel	**1ZHV7**

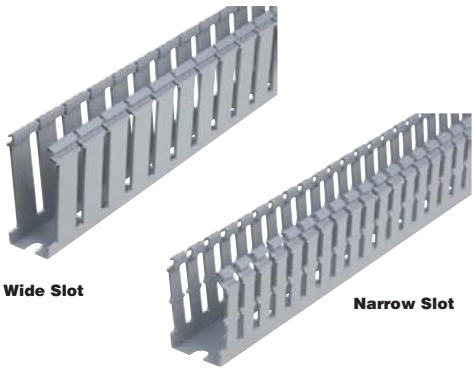
Thomas&Betts
A Member of the ABB Group

Wiring Duct

- Flame-retardant, lead-free PVC
- Standard 6-ft. length

Straight, deep slots accommodate larger wire sizes. Snap-back wire retention. Nonslip snap-on covers interlock with duct sidewalls. North American and DIN standard mounting holes.

W	H	WIDE SLOT Gray Item No.	WIDE SLOT White Item No.	NARROW SLOT Gray Item No.	NARROW SLOT White Item No.
Wiring Duct					
1.25"	2.19"	53UH76	53UH93	53UJ11	53UJ23
1.25"	3.14"	53UH77	53UH94	53UJ12	53UJ24
1.25"	4.46"	53UH78	53UH95	53UJ13	53UJ25
1.75"	2.19"	53UH80	53UH97	53UJ14	53UJ26
1.75"	3.14"	53UH81	53UH98	53UJ15	53UJ27
1.75"	4.46"	53UH82	53UH99	53UJ16	53UJ28
2.25"	2.03"	53UH84	53UJ02	53UJ17	53UJ29
2.25"	3.14"	53UH85	53UJ03	53UJ18	53UJ30
2.25"	4.33"	53UH86	53UJ04	53UJ19	53UJ31
3.25"	3.14"	53UH88	53UJ06	53UJ20	53UJ32
3.25"	4.46"	53UH89	53UJ07	53UJ21	53UJ33
4.25"	4.46"	53UH91	53UJ09	53UJ22	53UJ34
Wiring Duct Cover					
1.25"	—	53UH79	53UH96	53UH79	53UH96
1.75"	—	53UH83	53UJ01	53UH83	53UJ01
2.25"	—	53UH87	53UJ05	53UH87	53UJ05
3.25"	—	53UH90	53UJ08	53UH90	53UJ08
4.25"	—	53UH92	53UJ10	53UH92	53UJ10



PANDUIT®

Wiring Duct

FLEXIBLE WIRING DUCT

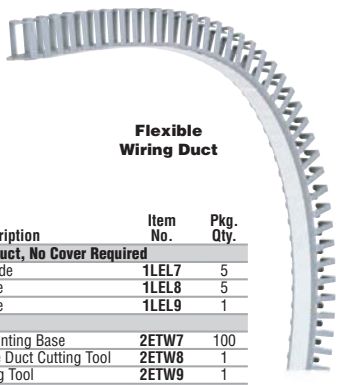
- Polypropylene
- 1.64-ft. length
- UL Recognized continuous use temp.: 149°F
- UL 94 flammability rating: V-2

Duct routes electrical wiring at extreme angles, around corners, and inside enclosure doors. UL Recognized and CSA Certified.

HINGED AND G AND F SERIES

- Lead-free PVC; hinged are flame retardant
- Standard 6-ft. length
- UL Recognized continuous use temp.: 122°F
- UL 94 flammability rating: V-0

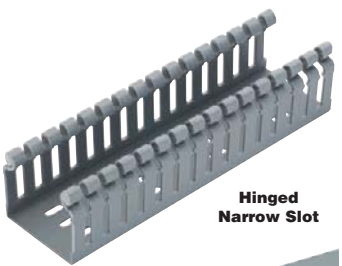
Nonslip covers sold separately. UL Recognized, CSA Certified, CE Certified.



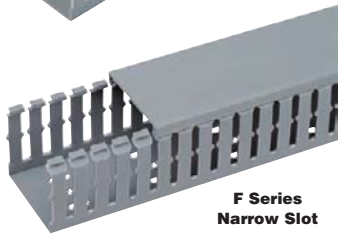
Description	Item No.	Pkg. Qty.
Flexible Wiring Duct, No Cover Required		
½" Deep x ½" Wide	1LEL7	5
1" Deep x 1" Wide	1LEL8	5
2" Deep x 2" Wide	1LEL9	1
Accessories		
Divider Wall Mounting Base	2ETW7	100
Wide Finger Wire Duct Cutting Tool	2ETW8	1
Wire Duct Cutting Tool	2ETW9	1
Wiring Duct Notching Tool	2ETX1	1
Nylon Rivets	3EYF7	100
Nylon Rivet Installation Tool	3EYF6	1





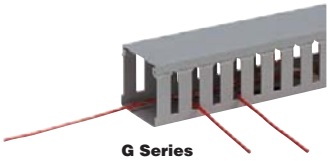


W	H	HINGED, WIDE SLOT Gray Item No.	HINGED, WIDE SLOT White Item No.	HINGED, NARROW SLOT Gray Item No.	HINGED, NARROW SLOT White Item No.	HINGED, SOLID WALL Gray Item No.	HINGED, SOLID WALL White Item No.	HINGED COVERS* Gray Item No.	HINGED COVERS* White Item No.
1.75"	1.98"	1LEN1	1LEN2	2ETX2	2ETX3	1LER7	1LER8	1LEN5	1LEN6
1.75"	3.06"	1LEN3	1LEN4	2ETX4	2ETX5	1LER9	1LET1	1LEN5	1LEN6
2.17"	1.98"	1LEN7	1LEN8	2ETX6	2ETX7	1LET2	1LET3	1LEP4	1LEP5
2.17"	3.06"	1LEN9	1LEP1	2ETX8	—	1LET4	1LET5	1LEP4	1LEP5
2.17"	4.10"	1LEP2	1LEP3	2ETY1	—	—	1LET7	1LEP4	1LEP5
3.25"	3.06"	1LEP6	1LEP7	2ETY3	—	1LET8	1LET9	1LER1	1LER2
3.25"	4.10"	1LEP8	1LEP9	2ETY5	—	1LEU1	1LEU2	1LER1	1LER2
4.25"	4.10"	1LER3	1LER4	2ETY7	2ETY8	1LEU3	1LEU4	1LER5	1LER6
Dividers									
For 2" Nom. Duct Height		2ETW4	—	2ETW4	—	2ETW1	—		
For 3" Nom. Duct Height		2ETW5	—	2ETW5	—	2ETW2	—		
For 4" Nom. Duct Height		2ETW6	—	2ETW6	—	2ETW3	—		



W	H	G SERIES WIDE SLOT Gray Item No.	G SERIES WIDE SLOT White Item No.	G SERIES WIDE SLOT, ADHESIVE MOUNT Gray Item No.	F SERIES NARROW SLOT Gray Item No.	F SERIES NARROW SLOT White Item No.	F SERIES NARROW SLOT, ADHESIVE MOUNT Gray Item No.	F SERIES NARROW SLOT, STANDARD MOUNTING HOLES WITH ADHESIVE Gray Item No.	FLUSH COVERS FOR G AND F SERIES Gray Item No.	FLUSH COVERS FOR G AND F SERIES White Item No.
1.25"	1.12"	3FVK2	3FVK4	3EXV8	3EXY2	3EXY3	3EYC8	—	3EYE3	3EYE4
1.25"	1.62"	3FVJ8	3FVK1	3EXV7	3EXX9	3EXY1	3EYC7	—	3EYE3	3EYE4
1.25"	2.12"	3FVK5	3FVK7	3EXV9	3EXY4	3EXY5	—	3EYC9	3EYE3	3EYE4
1.25"	3.12"	3FVK9	3FVL2	3EXW1	3EXY6	3EXY7	3EYD1	—	3EYE3	3EYE4
1.25"	4.10"	3FVL4	3FVL6	3EXW2	3EXY8	3EXY9	3EYD2	—	3EYE3	3EYE4
1.75"	1.62"	3FVH2	3FVH4	3EXV3	3EXX1	3EXX2	3EYC3	—	3EYE1	3EYE2
1.75"	2.12"	3FVH6	3FVH8	3EXV4	3EXX3	3EXX4	3EYC4	—	3EYE1	3EYE2
1.75"	3.12"	3FVJ1	3FVJ2	3EXV5	3EXX5	3EXX6	3EYC5	—	3EYE1	3EYE2
1.75"	4.10"	3FVJ4	3FVJ6	3EXV6	3EXX7	3EXX8	3EYC6	—	3EYE1	3EYE2
2.25"	2.12"	3FVL8	3AFY1	3EXW3	3EXZ1	3EXZ2	3EYD3	—	3EYE5	3EYE6
2.25"	3.12"	3AFY3	3AFY5	3EXW4	3EXZ3	3EXZ4	3EYD4	—	3EYE5	3EYE6
2.25"	4.10"	3EXT5	3EXT6	3EXW5	3EXZ5	3EXZ6	3EYD5	—	3EYE5	3EYE6
2.25"	5.10"	3EXT7	3EXT8	—	—	—	—	—	3EYE5	3EYE6
3.25"	3.12"	3EXT9	3EXU1	3EXW6	3EXZ9	3EYA1	3EYD6	—	3EYE7	3EYE8
3.25"	4.10"	3EXU2	3EXU3	3EXW7	3EYA2	3EYA3	3EYD7	—	3EYE7	3EYE8
3.25"	5.10"	3EXU4	3EXU5	—	3EYA4	3EYA5	—	—	3EYE7	3EYE8
4.25"	3.12"	3EXU6	3EXU7	—	3EYA6	3EYA7	—	—	3EYE9	3EYF1
4.25"	4.10"	3EXU8	3EXU9	3EXW8	3EYA8	3EYA9	3EYD8	—	3EYE9	3EYF1
4.25"	5.10"	3EXV1	3EXV2	3EXW9	3EYC1	3EYC2	3EYD9	—	3EYE9	3EYF1
Panduit Corner Duct										
4.40"	3.57"	3EYF2	3EYF4	—	—	—	—	—		
5.33"	4.58"	3EYF3	3EYF5	—	—	—	—	—		

** Hinged covers open up to 100° from either side.*





HUBBELL® Wiring Device-Kellems

BaseTrak® and Super BaseTrak® Nonmetallic Raceway Systems

- Office white color
- BaseTrak® (PB3): 3-channel, 4.5"H x 1.63"W x 120"L
- Super BaseTrak® (PS3): 3-channel, 6.7"H x 1.97"W x 120"L

UL Listed and CSA Certified to 600V.



No. 1MBK6



No. 1MBR4



No. 1MBK1

Description	BASETRAK® (PB3) Item No.	SUPER BASETRAK® (PS3) Item No.
3 Channel Raceway Base and Cover	1MBK6	1MBR4
Conduit Adapter	1MBK7	1MBR5
End Cap	1MBK8	1MBR6
External Elbow, Base and Cover	1MBK9	1MBR8
External Elbow, Cover Only	—	1MBR7
1 Gang Box	1MBL1	1MBR9
2 Gang Box	1MBL2	—
3 Gang Box	—	1MBT3
Flat Elbow	1MBL3	1MBT1
Internal Elbow	1MBL4	1MBT2
Splice Cover	1MBL5	—
Tee	1MBL6	1MBT5
Wire Clip	1MBL7	1MBT6
Switch Faceplate	1MBK1	1MBK1
Blank Faceplate	1MBK2	1MBK2
3-Jack Faceplate	1MBK3	1MBK3
Styleline Faceplate	1MBK4	1MBK4
Duplex Faceplate	1MBK5	1MBK5



No. 1MBW1

legrand®

HUBBELL® Wiring Device-Kellems

Prewired Raceway Systems

- 120VAC receptacles (NEMA 5-15)
- Individual receptacles on metallic units, duplex receptacles on nonmetallic units

Multioutlet, hardwired units have multiple spacing configurations for great flexibility in designing wire and cable installations. Optional entrance fittings adapt raceways to existing power circuits.

Note: other lengths and configurations are available on Grainger.com®; optional entrance fittings are also available online.

Amps	No. of Outlets	Outlet Center Distance	Color	Material	L	Brand	Mfr. Model	Item No.
15	12	6"	Ivory	Aluminum	6 ft.	Legrand	V20GB606	2W607
20	8	18"	Office White	PVC	6 ft.	Hubbell Wiring Device-Kellems	PT206118	1MBW1

HUBBELL® Wiring Device-Kellems



1-Channel Latching Raceway



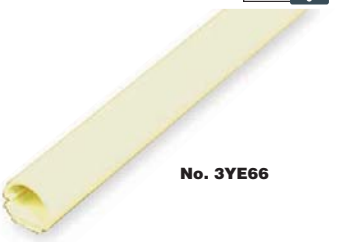
Splice Cover

PremiseTrak®, LANTrak®, and WallTrak® Nonmetallic Raceway Systems

- Rated 600V
- Office white color
- PT1 Series: 0.75"H x 0.68"W x 60"L
- PP1 Series: 0.84"H x 0.77"W x 84"L
- PL1 Series: 1.38"H x 1.04"W x 84"L
- PW2 Series: 2.12"H x 1.04"W x 60"L

Latching PVC raceways install easily for secure routing of power, voice, and data wires. UL Listed and CSA Certified.

Description	PremiseTrak® Non-Latching PT1 Series Item No.	PremiseTrak® Latching PP1 Series Item No.	LANTrak® Latching PL1 Series Item No.	WallTrak® Latching PW2 Series Item No.
1 Channel Raceway 60"	1MBU7	—	—	—
1 Channel Raceway 84"	—	1MBP6	1MBN5	—
2 Channel Raceway 60"	—	—	—	1MBW3
2 Channel Raceway 84"	—	—	—	1MBW4
End Cap	1MBU8	1MBP7	1MBN6	1MBW6
External Elbow Cover Only	1MBU9	—	—	—
External Elbow Base & Cover	—	1MBP8	1MBN8	1MBW7
Flat Elbow Cover Only	1MBV1	—	—	—
Flat Elbow Base & Cover	—	1MBP9	1MBN9	1MBW8
Internal Elbow Cover Only	1MBV2	—	—	—
Internal Elbow Base & Cover	—	1MBR1	1MBP1	1MBW9
Splice Cover	1MBV3	1MBR2	1MBP3	1MBX1
Tee Fitting Base and Cover	1MBV4	1MBR3	1MBP4	1MBX2
Conduit Adapter	1MBT7	—	1MBP5	1MBW5
Round Ceiling Box	1MBT8	1MBL8	1MBL8	1MBL8
1 Gang Box	1MBT9	1MBL9	1MBL9	1MBL9
2 Gang Box Deep	1MBU1	1MBN2	1MBN2	1MBN2
2 Gang Box Divided	—	1MBN1	1MBN1	1MBN1
Divider 1 Gang	—	1MBN3	1MBN3	1MBN3
Divider 2 Gang	—	1MBN4	1MBN4	1MBN4
Mounting Clip	—	—	1MBP2	—



No. 3YE66

legrand®

300 Series Plastic Duct and Fittings

- Ivory color
- Paintable

Easy peel and press installation. Hides a single cord, such as a lamp cord.

Item	L	Item No.
Raceway	5 ft.	3YE66
Coupling	1"	3YE67
Flat Elbow	1.625"	3YE68
Internal Elbow	1.625"	3YE69
External Elbow	1.62"	3YE70



No. 4WX77

HUBBELL® Wiring Device-Kellems

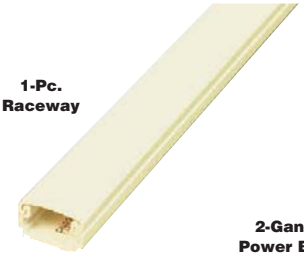
Aluminum Service Poles

- Prewired and ready to install (except No. 4WX82)
- 2 channel
- Ivory color

Service poles mount anywhere in a room—floor to ceiling—to provide power, voice, and data services. Ceiling trim plate/mounting bracket (included) simplifies installation and repositioning. Both power and communication devices mount on the same side of the 2.13"W x 2.13"D poles. Accessible data/communication section of pole allows mounting of 2 Style Line® communication outlets. UL Listed.

Note: other colors and configurations are available on Grainger.com®.

L	Includes	Mfr. Model	Item No.
10 ft. 2"	4 Device Knockout	HBLPPOAI	4WX82
10 ft. 2"	3 Service, 20A 125V Duplex Receptacle, (1) Circuit	HBLPP10AI	4WX77
15 ft. 2"	4 Device Knockout	HBLPPO15AI	1MXT3
15 ft. 2"	(2) 20A 125V Duplex Receptacles, (1) Circuit	HBLPP15AI	4WX81







WIREMOLD®
Eclipse™ Nonmetallic Raceway Systems

- Screw-hole mount; adhesive backing
- Locking hinges
- Rated 600V
- Ivory color
- PN03 Series: 0.5"H x 0.81"W x 96"L
- PN05 Series: 0.63"H x 1.13"W x 96"L
- PN10 Series: 0.81"H x 1.69"W x 96"L

1-pc. raceways conceal wires without tearing into existing walls. Drop-ceiling connectors slip over suspended ceiling grids.

Description	PN03 SERIES Item No.	PN05 SERIES Item No.	PN10 SERIES Item No.
1-Pc. Raceway	3YE22	3YE38	3YE40
Cover Clip	3YE23	3YE31	3YE41
Blank End Fittings	3YE29	3YE37	3YE47
Drop Ceiling Connectors	—	3YE49	3YE48
Entrance End Fitting	—	—	3YE50
90° Flat Elbow - 1" Bend Radius	3YE24	3YE32	3YE42
90° Internal Elbow - 1" Bend Radius	3YE26	3YE34	3YE44
90° External Elbow	3YE27	3YE35	3YE45
90° External Elbow - 1" Bend Radius	3YE28	3YE36	3YE46
Tee Fitting - 1" Bend Radius	3YE25	3YE33	3YE43
1 Gang Power Box	3YE52	3YE52	3YE52
2 Gang Power Box	3YE53	3YE53	3YE53
Small Data Box 1 Insert	3YU35	3YU35	3YU35
Large Data Box 2 Inserts	3YU36	3YU36	3YU36



WIREMOLD®
CableSmart™ Series Nonmetallic Raceway Systems

- Nonadhesive
- 2.0"H x 4.0"W x 96"L

2-pc., 2-channel PVC systems are extremely tamper-resistant. Corner drop feed helps feed horizontal runs. Paintable.

Description	IVORY Item No.	WHITE Item No.
40N2 SERIES		
2 Compartment Base	3YE71	3YE72
Cover	3YE73	3YE74
Base Seam Clip	3YE75	3YE76
Cover Clip	3YE77	3YE78
Flat Elbow, 2" Radius	3YE79	3YE80
Tee Fitting - 2" Radius	3YE81	3YE82
Internal Elbow, 2" Radius	3YE83	3YE84
External Elbow, 2" Radius	3YE85	3YE86
End Cap	3YE87	3YE88
Divided Entrance End	3YE89	3YE90
Twin Cover Device Bracket	3YE91	3YE92

legrand®

2-Pc. Nonmetallic Raceway

Designed for communication or power applications, and ideal for classrooms, offices, hotel applications, or anywhere a low-profile raceway is needed. Can also be used for power and/or communications wiring. Adhesive backing is suitable for low voltage applications. Available is 3 sizes. UL and C-UL Listed.

Description	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Raceway	60	⅞	7/16	400BAC	4GVN6
Raceway	60	1⅛	7/16	800BAC	4GVN7
Raceway	60	2¼	11/16	2300BAC	4GVN8
Deep Device Box	4¾	3	1¾	2348	4GVT9
Device Box	4¾	3	1⅜	2347	4GVT7
Entrance End	4¼	1 7/16	1½	810A2	4GVP5
Blank Faceplate	4¼	1⅞	—	5507B	4JA50


No. 4GVN6


No. 4GVN7


No. 4GVN8


No. 38G167


No. 38G171


No. 38G169


No. 38G183

D-LINE

D-Line Cable Management

Fast-fit decorative raceway conceals wires where time and appearance matter. Designed with hinge and click-lock lid. Self-adhesive and paintable. Cable Tidy products help organize and hide cable clutter. Additional components available on Grainger.com®.

Description	Color	Item No.	Pkg. Qty.
Half Round Large Raceway, 2.4" x 2.4"			
Raceway, 116" L, Adhesive Backed	White	38G191	1
Flat Bend	White	38G194	1
Internal Bend	White	38G195	1
External Bend	White	38G196	1
Equal Tee	White	38G197	1
Connector	White	38G198	1
End Cap	White	38G199	1
Half Round TV Drop, 2" x 1"			
TV Drop 60" L, PVC, Adhesive Backed	White	38G165	1
TV Drop Accessory Pack, Smooth Fit, ABS, Includes 2-Flat Bend, 1-Internal Bend, 1-External, 1-End Cap	White	38G166	1
TV Drop 60" L, PVC, Adhesive Backed	Black	38G167	1
TV Drop Accessory Pack, Smooth Fit, ABS, Includes 2-Flat Bend, 1-Internal Bend, 1-External, 1-End Cap	Black	38G168	1
Half Round Mini Raceway, 1 3/16" x 5/8"			
Mini 79" Length, PVC, Adhesive Backed	White	38G171	1
Mini PVC 118" Length, Adhesive Backed	White	38G172	1
Internal Bend, Clip Over, ABS	White	38G174	1
External Bend, Clip Over, ABS	White	38G175	1
Flat Bend, Clip Over, ABS	White	38G173	1
Door Top Bend, Clip Over, ABS	White	38G176	1
Equal Tee, Clip Over, ABS	White	38G177	1
Connector, Smooth Fit, ABS	White	38G180	1
End Cap, Smooth Fit, ABS	White	38G181	1
Circular Adapter, Smooth Fit, ABS	White	38G178	1
Round Base Adapter, Smooth Fit, ABS	White	38G179	1
Cutting Tool, (works with Mini, Micro & Floor Trim lengths)	—	38G182	1
Half Round Micro Raceway, 5/8" x 5/16"			
Micro 79" L, PVC, Adhesive Backed	White	38G169	1
Accessory Pack, Smooth Fit, ABS, Includes 4-Flat Bend, 4-Internal Bend, 4-External Bend, 3-Equal Tee, 7-Coupler, 2-End Cap	White	38G170	1
Quarter Round Floor Trim Raceway, ⅞" x ⅞"			
Floor Trim 79" Length, PVC, Adhesive Backed	White	38G183	1
Floor Trim Internal Bend, Clip Over	White	19RZ70	5
Floor Trim External Bend, Clip Over	White	19RZ71	5
Floor Trim Connector, Smooth Fit	White	19RZ72	5
Floor Trim End Cap Pack (1x left & 1x right), Smooth Fit	White	19RZ73	2
Cable Protector Internal Elbow	Brown	19RZ74	5
Cable Protector External Elbow	Brown	19RZ75	5
Cable Protector Connector	Brown	19RZ76	5
Cable Protector End Cap	Brown	19RZ77	2
Raceway, Adhesive Backed	Wood Effect	38G201	1
Stainable Accessory Pack, Includes 2-Flat Bend, 2-External Bend, 1-Connector, 1-Cable Outlet, 1-Cable Inlet, 1-End Cap Right, 1-End Cap Left	Brown	38G202	1
Stainable Internal External Bend, Includes 2-Internal Bend, 2-External Bend	Brown	38G203	1
Stainable Coupler and End Cap, Includes 2-Connector, 1-End Cap Right, 1-End Cap Left	Brown	38G204	1
Cable Tidy			
Cable Tidy Unit, ABS, 12¾" W x 5" D x 4½" H	Black	38G187	1
Cable Tidy Unit, ABS, 12¾" W x 5" D x 4½" H	White	38G188	1
Cable Tidy Tube, Split Flex, 1" ID, 43" L	Black	38G189	1
Cable Protector Unit	White	19RZ88	1
Cable Protector Unit	Black	19RZ89	1
Wire Marker, Includes Adhesive Labels - 64 Plug ID Labels, 72 Color Coded Cable Dots & Wraps, Adhesive Backed	Black, Blue, Brown, Green, Red, Violet, White, Yellow	38G190	1


Raceway


Bushing


Mounting Strap


Flat Elbow 90°


Tee


Support Clip


Box Extender Deep


Adjustable Offset Connector 1/2" KO


Deep Switch and Receptacle Box


Raceway Base


Raceway Cover


Wire Clip


Device Bracket


Rectangular Receptacle Cover


Tee


Blank End Fitting


Flat Elbow


External Elbow

HUBBELL® Wiring Devices-Kellems

legrand®

Metallic Surface Raceway Systems

Wiremold 500 and 700 Series—1-channel, 1-pc. steel units are paintable. 500 Series: 0.53"H x 0.75"W x 120"L base; 700 Series: 0.66"H x 0.75"W x 120"L base.

Hubbell® HBL500 Series—1-channel, 1-pc. steel units are paintable. 0.53"H x 0.76"W x 120"L base.

Hubbell HBL750 Series—1-channel, 1-pc. units easily accommodate 5 Cat 5e cables or 3 Cat 6 cables. 0.85"H x 0.76"W x 120"L base.

Wiremold 3000 Series—2-pc. steel units are for small- to medium-sized applications. 1.47"H x 2.75"W x 120"L base.

Hubbell HBL3000 Series—2-pc. units are made of steel; designed for small- to medium-sized applications. 1.47"H x 2.73"W x 120"L base.

Wiremold G4000 Series—2-pc. steel units can be divided for multiservice applications in large installations. 1.75"H x 4.75"W x 120"L base.

Hubbell HBL4750 Series—2-pc. units can be configured for 1 channel or as a 2-channel raceway that can be divided into a 50/50 or 70/30 split for max. capacity. 1.75"H x 4.76"W x 120"L base.

Description	WIREMOLD 500 Item No.	HUBBELL HBL500 Item No.	WIREMOLD 700 Item No.	HUBBELL HBL750 Item No.
Raceway	3YY43	1RZB7	3YY50	1RZB8
Bushing	3YY44	3EAC6	3YY51	—
Mounting Strap	3YY45	1RYT7	3YY52	—
Connection Cover	3YY46	1RYT8	3YY53	—
Flat Elbow 90°	3YY47	1RYT9	3YY54	1RYX1
Internal Elbow	3YY48	1RYU1	3YY55	1RYX2
External Elbow	3YY49	1RYU2	3YY56	—
Tee	3YY57	1RYU4	3YY57	1RYU4
Conduit Connector ½"	2VB52	3EAC9 *	2VB52	3EAC9 *
Box Extender	3YY65	1RYV5 *	3YY65	1RYV5 *
Deep Device Box Two ½" KO	3YY63	1RYV3 *	3YY63	1RYV3 *
Deep Switch and Receptacle Box	3YY61	1RYU9 *	3YY61	1RYU9 *
Round Ceiling Fan Box	3YY59	—	3YY59	—
Round Fixture Box	3YY58	1RYU6 *	3YY58	1RYU6 *
Extra Shallow Device Box One ½" KO	3YY64	—	3YY64	—
Shallow Device Box One ½" KO	3YY60	—	3YY60	—
Shallow Device Box Two ½" KO	3YY62	1RYV1 *	3YY62	1RYV1 *
2 Gang Box	4JA47	1RYV2 *	4JA47	1RYV2 *
2 Gang Deep Box	4JA46	1RYU7 *	4JA46	1RYU7 *
Support Clip	—	1RYU3 *	—	1RYU3 *
Box Extender Deep	—	1RYV4 *	—	1RYV4 *
Adjustable Offset Connector ½" KO	—	1RYV6 *	—	1RYV6 *
Entrance Connector	—	3EAC7 *	—	3EAC7 *
Conduit Connector ¾"	—	3EAD1 *	—	3EAD1 *

Description	WIREMOLD 3000 SERIES Gray Item No.	WIREMOLD 3000 SERIES Ivory Item No.	HUBBELL HBL3000 SERIES Gray Item No.	HUBBELL HBL3000 SERIES Ivory Item No.
Raceway Base, 10 ft.	3YY96	3ZA21	1MBY1	1MBY2
Raceway Cover, 5 ft.	3YY97	3ZA22	1MBY3	1MBY4
Supporting Clip	3ZA10	3ZA23	—	2GMA3
Cover Clip	3ZA11	3ZA24	1RYK5	—
Entrance End, ½" KO	3ZA13	3ZA25	—	—
Entrance End ½", ¾", and 1" KO	3ZA14	—	1RYL1	1RYL2
90° Flat Elbow	3ZA15	3ZA27	1RYL3	—
Tee	3ZA16	3ZA28	1RYL5	1RYL6
Single Receptacle Cover, 1.60" Dia. Hole	3ZA19	—	—	1RYN4
Duplex Receptacle Cover	3ZA20	3ZA33	1RYN5	1RYN6
Internal Corner Coupling	—	3ZA29	—	—
Single Receptacle Cover, 1.40" Dia. Hole	—	3ZA31	—	1RYN2
Wire Clip	3YY98	3YY98	1MBY5	1MBY5
Rigid Inside Coupling	3YY99	3YY99	1MBY6	1MBY6
Device Bracket	3ZA12	3ZA12	1RYK7	1RYK7
Knockout Entrance Fitting, External Corner Coupling	—	—	1RYK8	1RYK9
External Corner	—	—	3EAC8	1RYL9
Rectangular Receptacle Cover	—	—	1RYN7	1RYN8

Description	WIREMOLD G4000 SERIES Gray Item No.	WIREMOLD G4000 SERIES Ivory Item No.	HUBBELL HBL4750 SERIES Gray Item No.	HUBBELL HBL4750 SERIES Ivory Item No.
Raceway Base, 10 ft.	3ZA34	3ZA49	1RYN9	1RYP1
Raceway Cover, 5 ft.	3ZA35	3ZA50	1RYP2	1RYP3
Blank End Fitting	3ZA42	3ZA53	1RYP8	1RYP9
Flat Elbow	3ZA43	3ZA54	1RYR1	2GMA4
Internal Elbow	3ZA45	3ZA57	1RYR3	2GMA6
External Elbow	3ZA46	3ZA58	1RYR4	2GMA7
Tee	3ZA66	3ZA55	1RYR2	2GMA5
Device Mounting Bracket	3ZA69	3ZA60	—	1RYT6
Duplex Receptacle & Phone Outlet Cover	—	5KY82	—	—
Plate, 2 Gang, 1 Duplex, 1 Blank	—	5KY83	1RYR9	1RYT1
Plate, 2 Gang, 1 Style Line, 1 Blank	—	3NYP6	1RYT4	1RYT5
2-Gang Device Plate	3NYP7	3NYP8	—	—
Plate, 2 Gang, 1 Single Round, 1 Blank	3NYP9	3NYR1	1RYT2	—
Wire Clip	3ZA39	3ZA39	1RYP5	1RYP5
Divider	3ZA36	3ZA36	1RYP4	1RYP4
Rigid Inside Coupling	3ZA37	3ZA37	1RYP6	1RYP6
Divider Clip	3ZA38	3ZA38	1RYP7	1RYP7
Plate, 2 Gang Duplex	—	—	1RYR5	1RYR6
Plate, 2 Gang, 1 Duplex, 1 Modular Furniture	—	—	1RYR7	1RYR8

**** These accessories fit Hubbell 500, 700, and 750 series.***


Dual-Compartment Base


Single-Compartment Base

2400 Series Single- and Dual-Compartment Steel Raceways

legrand®

- Low-profile 0.87"H x 1.9"W x 60"L
- Paintable

Description	Item No.
Single-Compartment, Model 2400	
Base	3YY73
Cover	3YY74
Wire Clip	3YY75
Coupling	3YY76
Connection Cover	3YY77
Blank End Fitting	3YY79
90° Flat Elbow	3YY80
Internal Elbow	3YY81
External Elbow	3YY82
Raceway FiberReady Tee	4JA53
Single-Gang Extra Deep Device Box	3YY83
2-Gang Extra Deep Device Box	3YY84
Single-Gang Device Box	3YY85
2-Gang Extra Device Box	3YY86

Description	Item No.
Dual-Compartment, Model 2400D	
Base	3YY87
Cover	3YY74
Divided Coupling	3YY88
FiberReady Divided Entrance End, ¾" and 1" KO	3YY89
FiberReady 2" Radius Full Capacity Flat Elbow	3YY90
FiberReady 2" Radius Full Capacity Internal Elbow	3YY91
FiberReady 2" Radius Full Capacity External Elbow	3YY92
1-Gang Divided Device Box	3YY94
2-Gang Divided Device Box	3YY95

legrand®

1500, 2600, and OFR Series Steel Overfloor Raceways

1500 AND 2600 SERIES

Constructed of paintable galvanized steel. 0.34"H x 1.5"W x 120"L. 1500 Series withstands 200 lb./sq. in. 2600 Series withstands 150 lb./sq. in.

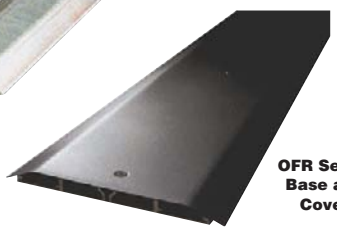
OFR SERIES

Tamper-resistant raceway installs over existing floor coverings. Features 4 channels of capacity and access to a wide range of power, communications, and A/V. Black powder-coated finish. ½"H x 6⅞"W x 8 ft. L. ADA Compliant. UL Listed.

Description	Item No.	Pkg. Qty.
1500 Series		
Raceway	3YY66	1
Wire Clip	3YY67	1
90° Flat Elbow	3YY68	1
Internal Elbow	3YY69	1
Combination Connector	3YY70	1
2600 Series		
Raceway	3YY71	1
90° Flat Elbow	3YY72	1
OFR Series		
Raceway	15A802	1
Device Box	15A804	1
Device Box	15A805	1
Transition	15A808	1
Transition	15A809	1
Flat Elbow	15A810	1
Entrance End	15A803	1



1500 Series Base and Cover



OFR Series Base and Cover



Base



Cover



Seam Clip



Blank End Fitting

Duplex Device

legrand®

4000 Series Designer Steel Raceways

- 2"H x 5.5"W x 120"L
- Large capacity

Dual-channel raceways are easy to install with no-saw-cut design. UL and C-UL Listed.

Description	L	GRAY Item No.	IVORY Item No.
Base	120"	1EXR4	1EXR4
Wire Clip	2.75"	1EXR5	1EXR5
Adjust to Fit Coupling	6"	1EXR6	1EXR6
Cover	60"	1EXR9	1EXR8
Seam Clip	5.9"	1EXT2	1EXT1
Half Seam Clip	5.9"	1EXT4	1EXT3
Entrance End Fitting	5.9"	—	1EXT5
Blank End Fitting	5.9"	1EXT8	1EXT7
Tee	8.5"	—	1EXU2
Internal Elbow	5.9"	1EXU5	1EXU4
External Elbow	5.9"	—	1EXU6
Duplex Device	6"	1EXU9	—
Duplex Device w/20A Receptacle	6"	—	1EXW1
Decorator Device	6"	—	1EXW3



No. 3FPR8



No. 3FPT5



No. 3FPV1



No. 3FPU1

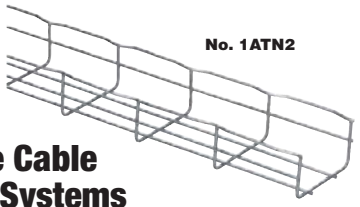
legrand®

6000 Series Steel Raceways

- 4"H x 4.75"W x 120"L
- High capacity
- Paintable

Decor-finish raceways can be divided for multiservice applications in large installations. Accommodate single- and dual-gang devices up to 100A and circuit breakers up to 3 poles. UL Listed and CSA Certified.

Description	GRAY Item No.	IVORY Item No.
Raceway	3FPR8	3FPR9
Raceway Cover	3FPT1	3FPT2
Wire Clip	3FPT4	3FPT4
Divider Clip	3FPT5	3FPT5
1-Gang Device Plate	3FPT9	3FPU1
2-Gang Device Plate	—	3FPU3
Blank End Fitting	—	3FPU5
Connector Fitting	3FPV1	3FPV2



No. 1ATN2

legrand®

Cablofil® Wire Cable Management Systems

- Lightweight steel; excellent load capacity
- Easy to bend, connect, and reconfigure on site

1-person installation with a bolt cutter, screwdriver, and wrench.

Note: Nos. 4JWR9, 4JWT1, and 4JWT2 are required for installation.

W (in.)	Pkg. Qty.	2" HEIGHT Item No.	4" HEIGHT Item No.	6" HEIGHT Item No.
Wire Tray, 6.5-ft. Lengths				
4	4	1ATN2	—	—
6	4	1ATN3	—	—
8	4	1ATN4	—	—
12	4	1ATN5	—	—
Wire Tray, 10-ft. Lengths				
4	1	4GVX1	—	—
6	1	4GVX2	4GVX7	—
8	1	4GVX3	4GVX8	—
12	1	4GVX4	4GVX9	4GVY3
18	1	4GVX5	4GVY1	4GVY4
20	1	4GVX6	4GVY2	4GVY5

Description	H (in.)	W (in.)	L (in.)	Item No.	Pkg. Qty.
Cable Tray Installation Hardware					
Clamp Washer, Square Splice	—	0.8	1.1	4JWR9	50
Clamp Washer, Square Splice	—	0.8	0.9	4JWT1	50
Screw and Flange Nut	—	—	—	4JWT2	50
Washer, Square Splice	—	2.0	2.1	4JWT4	25
Splice, Snap Connector	0.8	1.1	10.1	4JWT5	50
Fastrut Connector	0.6	—	2.9	4JWT6	50
Cable Tray Support	—	3.0	6.0	1ATP4	1
Cable Tray Support	1.0	3.0	12.0	1ATP6	1
Cable Tray Support	1.0	3.0	16.0	1ATP8	1
Cable Tray Support Bracket	4.9	1.8	8.2	1ATR1	1
Cable Tray Support Bracket	5.5	1.8	14.1	1ATR3	1
Cable Tray Support, Center Hanging	5.9	2.4	11.6	1ATR4	1
Cable Tray Support, Floor Mounting	4.0	0.1	2.4	1ATR5	1
Cable Tray Support, Post Mounting	—	1.4	7	1ATR6	1
Cable Guide	—	3.5	6.7	1ATR7	1
Cable Tray Cutter, Offset	—	6.0	24.4	1ATR8	1

cope®
A PART OF atkore



Ladder Tray



Horizontal Elbow

Ladder Trays

- 4" load depth
- 5¼" side rail height

Rigid aluminum trays have high load capacity and resist stress, camber, and warping. Flange-out side rails ease cable installation. Splice plates are slightly curved, for a spring-fit on straight sections or contour-fit on fittings. Meet NEMA VE1. Include splice plates and mounting hardware.

Description	12" WIDE LADDER TRAY Item No.	24" WIDE LADDER TRAY Item No.
12-ft. Ladder Tray (75 lb. per ft.-12B)*	2HCL2	2HCL3
12-ft. Ladder Tray (100 lb. per ft.-12C)*	2HCL4	2HCL5
Horizontal Elbow	2HCL6	2HCL7
Vertical Elbow, Inside Mount	2HCL8	2HCL9
Vertical Elbow, Outside Mount	2HCN1	2HCN2
Horizontal Tee	2HCN3	2HCN4
Splice Plate	2HCN6	2HCN6
Splice Plate, Vertical, Adjustable	2HCN7	2HCN7
Splice Plate, Horizontal, Adjustable	2HCN8	2HCN8
Expansion Splice Plate†	2HCN9	2HCN9
Hold Down Clamp	2HCP1	2HCP1
Reducing Fitting (24" to 12")	—	2HCN5

** Weight based on 12-ft. support span.*
† Recommended every 84 ft. of a straight tray run.



Switch Box
No. 6XC72



Switch Box
No. 6XC73



Handy Box
No. 4A238



Handy Box
Cover, Blank
No. 4A240



Handy Box Cover
No. 4YF17



Masonry Box
No. 3KF68



"3-1/2" Round
Ceiling Pan Box
No. 6XC84"



Nailing Plate
No. 2DCN4

Conduit Boxes, Covers, and Accessories

UL Listed.

RACO
A Division of Hubbell Incorporated (Delaware)

Description	Bracket Type	Nom. D	Mfr. Model	Item No.
Switch Box, 3" H x 2" W, Single Gang				
Gangable, ½" Knockouts	Ears, Old Work	2 ½ in	509	**1RVX6**
Gangable, ½" Knockouts	Ears	2 ¾ in	560	**3KF63**
Gangable, ½" Knockouts	Ears	3 ½ in	590	**3KF65**
Gangable, ¾" End Knockouts	Ears	3 ½ in	591	**29AH22**
Switch Box, 3" H x 2" W, Single Gang, for Armored Cable				
Gangable, ½" Knockouts	Ears	2 ½ in	518	**1XC34**
Gangable, ½" Knockouts	Ears, Old Work Clips	2 ½ in	523	**6XC78**
Gangable, ½" Knockouts	Ears	3 ½ in	600	**20LN61**
Switch Box, 3" H x 2" W, Single Gang, for NM-B Cable				
Nongangable	Flat D, ¼" Setback	1 in	404	**6XC72**
Nongangable	Ears	1 ½ in	410	**6XC73**
Gangable	Ears	2 ¼ in	471	**1XC35**
Gangable	Ears	2 ½ in	519	**5A056**
Gangable	Ears	2 ¾ in	567	**3KF64**
Gangable	Ears	3 ½ in	601	**6XC66**
Gangable	Ears, Old Work Clips	2 ½ in	517	**1XC36**
Gangable	TS, ½" Setback	2 ½ in	531	**6XC77**
Handy Box, 4" H x 2" W, Single Gang, for Conduit				
½" Knockouts	—	1 ½ in	650	**6XC56**
¾" Knockouts	—	1 ⅞ in	663	**2DDB6**
Switch Box, 3" H x 2" W, Single Gang				
Gangable, ½" Knockouts	Ears	2 ½ in	500	**3XK13**
Handy Box, 4" H x 2" W, Single Gang, for Conduit				
½" Knockouts	—	1 ⅞ in	660	**4A238**
½" Knockouts	TS, ½" Setback	1 ⅞ in	662	**6XC57**
Handy Box Accessories				
Extension Ring, Welded Corners	—	1 ½ in	653	**2DDA7**
Handy Box Cover, Blank	—	—	860	**4A240**
Handy Box Cover, ½" KO	—	—	861	**3KF48**
Handy Box Cover, Toggle Switch	—	—	865	**4A242**
Handy Box Cover, Receptacle	—	—	864	**4A241**
Handy Box Cover, 1.4" Dia.	—	—	863	**4YF18**
Handy Box Cover, 1.6" Dia.	—	—	867	**4YF17**
Switch Box Support, Grip-Lok; Madison Straps, Pkg. of 1	—	—	977	**30EJ95**
Masonry Boxes				
Nongangable, 1 Gang	—	2 ½ in	690	**3KF68**
Nongangable, 1 Gang	—	3 ½ in	695	**3KF69**
Nongangable, 2 Gang	—	3 ½ in	696	**3KF70**
Nongangable, 3 Gang	—	3 ½ in	697	**2DDA2**
Nongangable, 4 Gang	—	3 ½ in	698	**2DDA3**
Round Ceiling Pan Boxes				
3½" Round, NM-B	—	½ in	292	**6XC84**
4" Round, Conduit	—	½ in	293	**6XC85**
Multigang Boxes, Corner Edges				
½" & ¾" Knockouts, 2 Gang	—	1 ⅜ in	951	**2DCX3**
½" & ¾" Knockouts, 3 Gang	—	1 ⅜ in	952	**2DCX4**
¾" & 1" Knockouts, 2 Gang	—	2 ½ in	941	**2DCX8**
¾" & 1" Knockouts, 3 Gang	—	2 ½ in	942	**2DCX9**
¾" & 1" Knockouts, 4 Gang	—	2 ½ in	943	**2DCY1**
¾" & 1" Knockouts, 6 Gang	—	2 ½ in	945	**2DCY3**
4" Square/1900 Boxes, Rounded Edges				
½" Knockouts	—	1 ½ in	190	**5A050**
½" Knockouts, Extension Ring	—	1 ½ in	201	**6XC71**
½" Knockouts	—	2 ⅛ in	680	**2DDC9**
½" & ¾" Knockouts	—	1 ½ in	192	**5A051**
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	203	**1RVU4**
½" & ¾" Knockouts	—	2 ⅛ in	683	**2DDD1**
½" & ¾" Knockouts, Plenum	—	2 ⅛ in	239	**2DDE2**
4" Square/1900 Boxes, Corner Edges				
½" & ¾" Knockouts	—	1 ½ in	189	**6XC65**
½" & ¾" Knockouts	—	2 ⅛ in	232	**5A052**
¾" Knockouts	—	2 ⅛ in	231	**2DDA6**
NM-B	FM	1 ½ in	223	**2DDD7**
Armored	FM	1 ½ in	218	**6XC64**
Armored	BOX-LOC Flush	1 ½ in	229	**3KF35**
½" & ¾" Knockouts, w/Grounding Pigtail	H Style	1 ½ in	189H	**2NYF2**
½" & ¾" Knockouts, w/Grounding Pigtail	H Style	2 ⅛ in	232H	**2NYF3**
½" & ¾" Knockouts	BOX-LOC Flush	1 ½ in	227	**3KF34**
½" & ¾" Knockouts	BOX-LOC Flush	2 ⅛ in	238	**1RVX1**
½" & ¾" Knockouts	TS, Flush	2 ⅛ in	235	**1RVU5**
½" & ¾" Knockouts	FM	1 ½ in	196	**3KF32**
½" & ¾" Knockouts	W	1 ½ in	208	**3KF33**
Red, ½" & ¾" Knockouts	—	3 ½ in	911-2	**2DCT4**
4" Square/1900 Box Covers				
Flat, Blank	—	—	752	**5A053**
Flat, Blank with ½" Knockout in Center	—	—	753	**3KF44**
1 Toggle Switch	—	—	800C	**5AA23**
2 Toggle Switch	—	—	803C	**5AA25**
2 GFCI	—	—	809C	**2DDC7**
1 Duplex Receptacle	—	—	902C	**5AA31**
2 Duplex Receptacle	—	—	907C	**5AA33**
Combination 1 Duplex, 1 Toggle Switch	—	—	906C	**5AA32**
1 GFCI	—	—	808C	**5AA26**
5-15R, 5-20R, 6-15R, 6-20R, 1 Hole 1.40" Dia.	—	—	801C	**5AA24**
Twist Lock 20A, 1 Hole 1.60" Dia.	—	—	812C	**5AA29**
Twist Lock 30A, 1 Hole 1.70" Dia.	—	—	811C	**5AA28**
Straight Blade, 30 and 50A, 3-Wire, 1 Hole 2.15" Dia.	—	—	810C	**5AA27**
4" Square/1900, 1 Gang Plaster (Mud)/Tile Rings				
Ceiling Fixture Plaster Ring, 2¾" Centers, ½" Raised	—	—	767	**1XC29**
Ceiling Fixture Plaster Ring, 2¾" Centers, ⅝" Raised	—	—	756	**6XC70**
1 Gang Plaster Ring, ¼" Raised	—	—	771	**3KF45**
1 Gang Plaster Ring, ½" Raised	—	—	772	**5A054**
1 Gang Plaster Ring, ⅝" Raised	—	—	768	**1XC32**
1 Gang Plaster Ring, ¾" Raised	—	—	773	**3KF36**
1 Gang Plaster Ring, 1" Raised	—	—	774	**3KF37**
1 Gang Plaster Ring, 1¼" Raised	—	—	775	**3KF38**
1 Gang Plaster Ring, 1½" Raised	—	—	785	**3KF42**
1 Gang Plaster Ring, 2" Raised	—	—	786	**3KF43**
1 Gang Tile Ring, ½" Raised	—	—	782	**3KF41**
2 Gang Plaster Ring, ½" Raised	—	—	778	**1XC33**
2 Gang Plaster Ring, ⅝" Raised	—	—	769	**3KF40**
2 Gang Plaster Ring, ¾" Raised	—	—	779	**3KF39**
3 Gang Plaster Ring, ⅝" Raised	—	—	792	**19L561**
3 Gang Plaster Ring, ¾" Raised	—	—	793	**19L562**
3 Gang Plaster Ring, 1⅜" Raised	—	—	794	**19L563**
4 11/16" Square/11B Boxes, Rounded Edges				
½" & ¾" Knockouts	—	1 ½ in	247	**3LN23**
4 11/16" Square/11B Boxes, Corner Edges				
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	250	**2DDC2**
½" & ¾" Knockouts	—	2 ⅛ in	257	**3LN25**
½" & ¾" Knockouts	H Style	2 ⅛ in	257H	**2NYF4**
1" Knockouts	—	2 ⅛ in	258	**3LN24**
½" & ¾" Knockouts, Extension Ring	—	2 ⅛ in	262	**2DDC3**
¾" thru 2" Knockouts	—	3 ¼ in	260	**19L559**
Data Box, SU Bracket, Flat 4" sq. Cover, ¾ thru 2" Knockouts	—	3 ¼ in	263	**19L560**
4 11/16" Square/11B Box Covers and Plastic Rings				
Flat, Blank	—	—	832SP	**3LN26**
1 Toggle Switch	—	—	870RAC	**3LT02**
1 Duplex Receptacle	—	—	972	**3LR93**
2 Duplex Receptacle	—	—	979	**3LT01**
Twist Lock 20A, 1 Hole 1.60" Dia.	—	—	887	**3LR98**
Straight Blade, 30 and 50A, 3-Wire, 1 Hole 2.15" Dia.	—	—	878	**3LR94**
Straight Blade, 30 and 50A, 4-Wire, 1 Hole 2.60" Dia.	—	—	888	**3LR95**
1 Gang Plaster Ring, ½" Raised	—	—	837	**3LN27**
2 Gang Plaster Ring ½" Raised	—	—	841	**3LN28**
Low Voltage Data Box Partition Plate for 3¼" Deep Boxes	—	—	981	**19L564**
4" Octagon/8B Boxes				
½" Knockouts	—	1 ½ in	125	**5A047**
½" & ¾" Knockouts	—	1 ½ in	127	**6XC79**
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	130	**1RVU1**
NM-B	—	1 ½ in	146	**5A048**
½" & ¾" Knockouts	—	2 ⅛ in	167	**2DDB4**
NM-B, Ceiling Fan Brace	—	1 ½ in	296-1	**6XC54**
½" Knockouts, Extension Ring	—	1 ½ in	128	**6XC81**
NM-B	TS	1 ½ in	164	**6XC80**
NM-B, Ceiling Fan with Brace	FA ½" Setback	2 ⅛ in	294	**3KF47**
4" Octagon/8B Box Covers and Accessories				
Flat Blank	—	—	722	**5A049**
Flat Blank with ½" Knockout	—	—	724	**6XC82**
Flat Duplex Receptacle	—	—	731	**6XC83**
5" Round Steel Closure Plate, White	—	—	5653-1	**3KF62**
Adjustable Bar Hanger, Range 14¼" to 22½"	—	—	920	**6XC55**
Nailing Plates				
2.56"L x 1.5"W	—	—	2709	**2DCN4**
2.75"L x 1.5"W, Puzzle-Plate	—	—	2712R	**19L542**
5"L x 1.5"W, Puzzle-Plate	—	—	2713R	**19L543**
Clamping Service Entrance Heads				
½ in, Aluminum Construction	—	—	2402	**19L547**
¾ in, Aluminum Construction	—	—	2403	**19L548**
1 in, Aluminum Construction	—	—	2404	**19L549**
1 ¼ in, Aluminum Construction	—	—	2405	**19L550**
1 ½ in, Aluminum Construction	—	—	2406	**19L551**
2 in, Aluminum Construction	—	—	2408	**19L552**
2 ½ in, Aluminum Construction	—	—	2410	**19L553**
3 in, Aluminum Construction	—	—	2412	**19L554**
3 ½ in, Aluminum Construction	—	—	2414	**19L555**
4 in, Aluminum Construction	—	—	2416	**19L556**

No. of Gangs	Description	Item No.
Copper-Free Aluminum		
Receptacle Covers for Wet Locations, NEMA 3R (Includes Flip Cover and Gasket)		
1	Cover with Receptacle, 5-15R Duplex	**10H398**
1	Cover with Receptacle, 6-20R Duplex	**10H402**
1	Cover with Receptacle, 5-15R, Single 1⅜" Device Opening	**10H403**
1	Cover with Receptacle, 5-20R, Single 1⅜" Device Opening	**10H404**
1	Cover with Receptacle, 6-20R, Single 1⅜" Device Opening	**10H406**
1	Receptacle, GFCI	**10H411**
1	Receptacle, Single 1⅜" Device Opening	**10H412**
1	Receptacle, Single 1¹⁹⁄₃₂" Device Opening, Locking Devices	**10H413**
1	Switch, 1¹⁹⁄₃₂" Device Opening with Switch Plate	**10H415**
Covers For Dry Locations (Without Gasket)		
1	Receptacle, Single 1¹³⁄₃₂" Hole Diameter, Box Mount	**10H359**
1	Switch	**10H365**
1	Pilot Lamp, Amber Jewel	**10L154**
1	Switch with Toggle Guard, Cast	**10H369**
Cast Covers for Wet Locations, NEMA 3R (Includes Gasket)		
1	Pilot Lamp Flush Receptacle, Green Jewel	**10H349**
1	Switch, Operating Type for Square Handle Tumbler or Toggle	**10H377**
1	Blank	**10L149**
1	Pilot Lamp Flush Receptacle, Amber Jewel	**10L156**
1	Pilot Lamp Flush Receptacle, Red Jewel	**10L158**
Malleable Iron		
Receptacle Covers for Wet Locations, NEMA 3R (Includes Flip Cover and Gasket)		
1	Cover with Receptacle, L5-15R, Single 1⅜" Device Opening	**10H407**
1	Cover with Receptacle, L6-15R, Single 1⅜" Device Opening	**10H408**
1	Cover with Receptacle, L7-15R, Single 1⅜" Device Opening	**10H409**
1	Receptacle, Duplex, 1⅜" Device Opening	**10H414**
Covers For Dry Locations (Without Gasket)		
1	Extension	**10L110**
2	Extension	**10L116**
2	Blank, Cast	**10H384**
1	Receptacle, Single 1⁷⁄₁₆ Hole Diameter, Cast	**10H363**
1	Receptacle, Duplex, Cast	**10L152**
Cast Covers for Wet Locations, NEMA 3R (Includes Gasket)		
1	Pilot Lamp Flush Receptacle, Green Jewel	**10H348**
1	Switch, Double Push Button	**10H354**
1	Switch, Rocker Type for Square Handle Tumbler or Toggle	**10H370**
1	Receptacle, Duplex with Spring Cover	**10H372**
1	Receptacle, Single 1⁷⁄₁₆" Hole Diameter with Spring Cover	**10H374**
1	Switch, Operating Type for Square Handle Tumbler or Toggle	**10H376**
1	Pilot Lamp Flush Receptacle, Amber Jewel	**10L155**
1	Pilot Lamp Flush Receptacle, Red Jewel	**10L157**
Steel		
Covers For Dry Locations (Without Gasket)		
1	Pilot Lamp, Green Jewel	**10H347**
1	Switch, Double Push Button	**10H353**
1	Receptacle, Single 1¹³⁄₃₂" Hole Diameter with Lift Cover	**10H357**


No. 10H416


No. 10L109


No. 10L094


No. 10L096


No. 10L099


No. 10L119

Appleton Group

Cast Device Boxes and Covers

Boxes feature accurately tapped and tapered threads for tight, rigid joints and ground continuity. A smooth, rounded integral bushing in each hub protects conductor insulation. Openings provide room to make splices and for general maintenance. Accommodate wiring devices like switches and receptacles. Corrosion resistant. Covers for Dry and Wet Locations mount directly on box. Covers for Wet Locations feature a gasket that seals around the plug to keep dirt and moisture out.

No. of Gangs	Description	Item No.
1	Receptacle, Single 1⅜" Hole Diameter	**10H361**
1	Switch, Up to 3 Interchangeable Devices	**10H380**
2	Blank	**10H381**
2	Receptacle, 2 Duplex	**10H385**
2	Receptacle, Single 1¹³⁄₃₂" Hole Diameter and Duplex	**10H387**
2	Receptacle, Single 2¹³⁄₃₂" Hole Diameter	**10H388**
2	Receptacle and Switch, Switch/Duplex	**10H390**
1	Blank	**10L146**
1	Receptacle, Duplex	**10L150**
1	Pilot Lamp, Red Jewel	**10L153**
No. of Gangs	**Description**	**Item No.**
Accessories		
1	Adapter and Gasket, Mounts Receptacle Covers for Wet Locations to Standard Steel Switch Boxes	**10H410**

No. of Gangs	No. of Inlets	Box Type	Item No.
Aluminum Boxes			
¾ in Hubs			
2	2	FSS	**10H422**
1 in Hubs			
1	1	FDC	**10L079**
Malleable Iron Boxes			
½ in Hubs			
1	3	FSLA	**10H416**
1	3	FDCC	**10L091**
1	3	FDT	**10L097**
1	4	FDX	**10L101**
1	1	FS	**10L108**
1	4	FSCD	**10L137**
2	2	FSS	**10H420**
2	1	FS	**10L117**
2	2	FSC	**10L131**
½ in to ¾ in Hubs			
2	3	FSD	**10L142**
¾ in Hubs			
1	4	FDX	**10L102**
1	1	FS	**10L109**
1	2	FSC	**10L127**
2	2	FSS	**10H421**
2	2	FDS	**10L095**
2	1	FS	**10L118**
2	2	FSC	**10L132**
3	3	FSS	**10H423**
1 in Hubs			
1	3	FDCC	**10L090**
1	2	FDS	**10L094**
1	3	FDT	**10L096**
1	4	FDX	**10L099**
1	3	FSCT	**10L139**
2	2	FSS	**10H419**
2	1	FD	**10L074**
2	2	FDC	**10L086**
3	1	FS	**10L119**

Weatherproof Boxes and Covers

HUBBELL KILLARK

Use with standard flush switches and receptacles. Suitable for outdoor, high-abuse areas and wet locations when used with cover and gasket, sold separately. Malleable iron boxes with NPT-tapered threads, integral bushings, and easily accessible internal grounding screws. Triple-coat Duraloy® finish for high corrosion resistance. Lug brackets on all models except Nos. 2NA21, and 2NA28. FB-1 NEMA/IEC frame. Silver color.

For Use With	Cover Material	1 Gang Mfr. Model	1 Gang Item No.	2 Gang Mfr. Model	2 Gang Item No.	
Weatherproof Covers						
Blank	Aluminum	—	**—**	2FBC	**49ZX83**	
Blank	Aluminum	—	**—**	2FB	**49ZY20**	
Duplex Receptacles	Aluminum	FCLA	**2NA14**	2FA	**2MY65**	
Duplex Receptacles	Aluminum	1FA	**2MY62**	2FAC	**49ZX84**	
Duplex Receptacles	Aluminum	FCLA2	**2NA15**	—	**—**	
Duplex Receptacles	Aluminum	1FAC	**49ZX85**	—	**—**	
GFCI Receptacles	Aluminum	FCL-GF	**2NA16**	—	**—**	
Outdoor On-Off Toggle Switches	Aluminum	1FT	**2MY64**	2FT	**2MY69**	
Single Gang Boxes	Aluminum	1FB	**2MY63**	2FR	**49ZY11**	
Single Gang Boxes	Aluminum	1FG	**49ZX94**	—	**—**	
Single Gang Boxes	Iron	1FR	**49ZX90**	—	**—**	
Single Gang Boxes	Iron	1FRC	**49ZX95**	—	**—**	
Single Gang Boxes	Malleable Iron	FSBCM	**2NA24**	—	**—**	
Standard Toggle Switches or Manual Motor Starters	Aluminum	FZ8647	**2NA29**	—	**—**	
Toggle Switch	Aluminum	FST	**49ZY02**	1FTC	**49ZX88**	
Toggle Switch	Aluminum	FCLT	**49ZY15**	—	**—**	
Gaskets						
Appleton FS/FD Series Cast Boxes	—	—	**—**	3FSRG	**49ZX82**	*
Hubbell 2F Series Box Covers	—	FSRG	**2NA27**	2FSRG	**2MY68**	

Box Type	No. of Inlets	No. of Gangs	Cap.	½ in Hubs Mfr. Model	½ in Hubs Item No.	¾ in Hubs Mfr. Model	¾ in Hubs Item No.	1 in Hubs Mfr. Model	1 in Hubs Item No.
Aluminum Boxes									
FD	1	1	47.0 cu. in.	FD-1	**49ZX86**	FD-2	**49ZX92**	FD-3	**49ZX91**
FD	1	2	47.0 cu. in.	2FD-1	**49ZY14**	2FD-2	**49ZY01**	—	**—**
FDC	2	1	50.0 cu. in.	FDC-1	**49ZY03**	FDC-2	**49ZY04**	—	**—**
FDC	2	2	50.0 cu. in.	2FDC-1	**49ZY25**	2FDC-2	**49ZX89**	—	**—**
FDCC	3	1	28.0 cu. in.	—	**—**	FDCC-2	**49ZY05**	—	**—**
FS	1	1	18.0 cu. in.	FS-1	**4TZT5**	FS-2	**4TZT6**	—	**—**
FS	1	2	32.0 cu. in.	2FS-1	**49ZX99**	—	**—**	2FS-3	**49ZY13**
FSC	2	1	18.0 cu. in.	FSC-1	**4TZT8**	FSC-2	**4TZT9**	—	**—**
FSC	2	2	32.0 cu. in.	2FSC-1	**49ZY16**	—	**—**	—	**—**
FSOC	2	1	29.0 cu. in.	FSOC-1	**49ZY30**	—	**—**	—	**—**
FSS	2	1	18.0 cu. in.	—	**—**	FSS-2	**49ZY17**	—	**—**
FST	3	1	18.0 cu. in.	—	**—**	FST-2	**49ZY28**	—	**—**

** For 3-gang boxes.*


No. 2NA17


No. 2MY67


No. 2NA28

Box Type	No. of Inlets	No. of Gangs	Cap.	½ in Hubs Mfr. Model	½ in Hubs Item No.	¾ in Hubs Mfr. Model	¾ in Hubs Item No.	1 in Hubs Mfr. Model	1 in Hubs Item No.
Aluminum Boxes									
FD	1	1	47.0 cu. in.	FD-1	**49ZX86**	FD-2	**49ZX92**	FD-3	**49ZX91**
FD	1	2	47.0 cu. in.	2FD-1	**49ZY14**	2FD-2	**49ZY01**	—	**—**
FDC	2	1	50.0 cu. in.	FDC-1	**49ZY03**	FDC-2	**49ZY04**	—	**—**
FDC	2	2	50.0 cu. in.	2FDC-1	**49ZY25**	2FDC-2	**49ZX89**	—	**—**
FDCC	3	1	28.0 cu. in.	—	**—**	FDCC-2	**49ZY05**	—	**—**
FS	1	1	18.0 cu. in.	FS-1	**4TZT5**	FS-2	**4TZT6**	—	**—**
FS	1	2	32.0 cu. in.	2FS-1	**49ZX99**	—	**—**	2FS-3	**49ZY13**
FSC	2	1	18.0 cu. in.	FSC-1	**4TZT8**	FSC-2	**4TZT9**	—	**—**
FSC	2	2	32.0 cu. in.	2FSC-1	**49ZY16**	—	**—**	—	**—**
FSOC	2	1	29.0 cu. in.	FSOC-1	**49ZY30**	—	**—**	—	**—**
FSS	2	1	18.0 cu. in.	—	**—**	FSS-2	**49ZY17**	—	**—**
FST	3	1	18.0 cu. in.	—	**—**	FST-2	**49ZY28**	—	**—**
Malleable Iron Boxes									
FD	1	1	28.0 cu. in.	FD-1M	**2NA17**	FD-2M	**2NA18**	—	**—**
FD	1	1	47.0 cu. in.	—	**—**	—	**—**	FD-3M	**49ZX87**
FD	1	2	47.0 cu. in.	2FD-1M	**49ZX96**	2FD-2M	**49ZX98**	—	**—**
FDC	2	1	28.0 cu. in.	FDC-1M	**2NA19**	FDC-2M	**2NA20**	—	**—**
FDC	2	1	50.0 cu. in.	—	**—**	—	**—**	FDC-3M	**49ZX93**
FDC	2	2	50.0 cu. in.	2FDC-1M	**49ZX97**	2FDC-2M	**49ZY06**	—	**—**
FDS	2	1	28.0 cu. in.	—	**—**	FDS-2M	**2NA21**	—	**—**
FS	1	1	18.0 cu. in.	FS-1M	**2NA22**	FS-2M	**2NA23**	—	**—**
FS	1	1	32.0 cu. in.	—	**—**	—	**—**	FS-3M	**49ZY10**
FS	1	2	32.0 cu. in.	—	**—**	2FS-2M	**2MY66**	2FS-3M	**49ZY07**
FSC	2	1	18.0 cu. in.	FSC-1M	**2NA25**	FSC-2M	**2NA26**	—	**—**
FSC	2	1	32.0 cu. in.	—	**—**	—	**—**	FSC-3M	**49ZY19**
FSC	2	2	32.0 cu. in.	2FSC-1M	**49ZY08**	2FSC-2M	**2MY67**	—	**—**
FSCA	3	1	18.0 cu. in.	FSCA-1M	**49ZY31**	FSCA-2M	**49ZY27**	—	**—**
FSCC	2	1	18.0 cu. in.	FSCC-1M	**49ZY24**	—	**—**	—	**—**
FSCC	3	1	18.0 cu. in.	—	**—**	FSCC-2M	**49ZY21**	—	**—**
FSCT	3	1	18.0 cu. in.	FSCT-1M	**49ZY29**	FSCT-2M	**49ZY23**	—	**—**
FSS	2	1	18.0 cu. in.	FSS-1M	**49ZY12**	FSS-2M	**2NA28**	—	**—**
FST	3	1	18.0 cu. in.	FST-1M	**49ZY22**	FST-2M	**49ZY09**	—	**—**
FSX	4	1	18.0 cu. in.	FSX-1M	**49ZY18**	FSX-2M	**49ZY26**	—	**—**



No. 3KG84



No. 4YF70



No. 52HF24

Weatherproof Outlet Boxes

Boxes are supplied with closure plugs and self-threading ground screw.

BELL
A Division of Hubbell Incorporated (Delaware)

No. of Gangs	Description	No. of Inlets	Material	Color	L	W	D	½ in HUBS Mfr. Model	½ in HUBS Item No.		¾ in HUBS Mfr. Model	¾ in HUBS Item No.	
1	Standard	3	Aluminum	Gray	4.50"	2.75"	2.00"	5320-0	**3KG83**		5324-0	**3KG85**	
1	Standard	4	Aluminum	Gray	4.50"	2.75"	2.00"	5321-0	**3KG84**		5330-0	**2DCV4**	
1	Standard	5	Aluminum	Gray	4.50"	2.75"	2.00"	5323-0	**2DCV3**	*	5332-0	**2DCV6**	*
1	Standard	5	Aluminum	Gray	4.50"	2.75"	2.00"	5322-0	**4YF70**	†	5331-0	**2DCV5**	†
1	Extra Deep	3	Aluminum	Gray	4.50"	2.75"	2.63"	5385-0	**2DCW1**		5386-0	**2DCW2**	
1	Extension	0	Aluminum	Gray	—	2.75"	1.00"	5406-0	**2DCW7**		5406-0	**2DCW7**	
1	Extension	6	Aluminum	Gray	5.25"	3.50"	1.50"	5400-0	**3KF67**		—	—	
2	Standard	3	Aluminum	Gray	4.56"	4.58"	2.00"	5333-0	**4A243**		5341-0	**3KF89**	
2	Standard	4	Aluminum	Gray	4.56"	4.58"	2.00"	5335-0	**3KF88**		5343-0	**3KF90**	
2	Standard	5	Aluminum	Gray	4.56"	4.58"	2.00"	5337-0	**4A244**	†	5345-0	**4A245**	†
2	Standard	5	Aluminum	Gray	4.56"	4.56"	2.00"	—	—		5342-0	**2DCV8**	*
2	Standard	7	Aluminum	Gray	4.56"	4.56"	2.00"	5340-0	**2DCV7**		5346-0	**2DCV9**	
2	Extra Deep	5	Aluminum	Gray	4.50"	4.50"	2.78"	—	—		5388-0	**2DCW4**	
2	Extension	0	Aluminum	Gray	—	4.65"	1.03"	5407-0	**4YF23**		5407-0	**4YF23**	
3	Extra Deep	7	Aluminum	Gray	6.38"	4.50"	2.63"	—	—		5390-0	**2DCW6**	
—	4 Closure Plugs	5	Aluminum	Gray	4.00"	4.00"	1.50"	5361-0	**2V567**		—	—	
1	Round with 4 Closure Plugs	5	Aluminum	Gray	4.00"	4.00"	1.50"	—	—		5372-0	**3KG86**	
0	Closure Plugs	—	Zinc	Gray	—	0.50	—	5269-0	**30UJ94**		—	—	
0	Closure Plugs	—	Die-Cast Zinc	Gray	—	0.75	—	—	—		5270-0	**30UJ95**	
1	Marine-Rated, FD	2	Thermoplastic	Yellow	5.92"	2.77"	3.53"	—	—		HBL60CM83A	**52HF24**	
1	Marine-Rated, FD	2	Thermoplastic Elastomer	Gray	5 61/64"	2 49/64"	3 17/32"	—	—		HBL6083	**3D939**	
1	Marine-Rated, FS	2	Bakelite	Black	4 15/32"	2¾"	2 35/64"	—	—		HBL6080OS	**3D940**	

Inlets on ends, sides, and back. †Inlets on ends and back.

BELL
A Division of Hubbell Incorporated (Delaware)

HUBBELL®
Wiring Device-Kellems

Weatherproof Covers and Plates

Protect outdoor switches or receptacles. Covers are self-closing. Gray color. Thermoplastic plates have stainless steel metallic parts and are corrosion-resistant. No. 3D249 has fiber shield to weatherproof toggle and lock switches. All are UL Listed and CSA Certified—Plates with model numbers ending in "WO" are UL Listed for wet and damp locations, cover open. All other plates are UL Listed for wet and damp locations, cover closed.



No. 2DCV2



No. 4YF68



No. 6C595



No. 14H186

Description	Lid Style	No. of Gangs	Mounting Orientation	Cover Material	Mfr. Model	Item No.
Bell						
Rectangular, 1-Hole	—	1	—	—	5186-0	**3KF60**
Rectangular, 3-Hole	—	1	—	—	5189-0	**2V626**
4 in Round Cluster - Covers						
Round, 3-Hole	No Lid	1	Vertical	Cast Aluminum	5197-0	**2V627**
FS or FD Weatherproof Boxes						
Lever Switch and Cover	No Lid	1	Vertical	Cast Zinc	5121-0	**2DCV2**
Duplex Receptacle	(2) Self Closing	1	Horizontal	Cast Zinc	5180-0	**2V705**
Duplex Receptacle	Self Closing	1	Vertical	Cast Aluminum	5146-0	**3KH41**
Duplex Cover, Padlockable	Self Closing	1	Vertical	Cast Aluminum	5027-0	**4YF74**
Single Receptacle, 1.406" dia.	Self Closing	1	Horizontal	Cast Aluminum	5152-0	**3KH42**
Single Receptacle, 1.406" dia.	Self Closing	1	Vertical	Cast Zinc	5155-0	**2V704**
GFCI Receptacle	Self Closing	1	Horizontal	Cast Aluminum	5101-0	**3KH39**
GFCI Receptacle	Self Closing	1	Vertical	Cast Aluminum	5103-0	**3KH40**
GFCI Receptacle, 9/32" Hole for Padlock	Self Closing	1	Vertical	Cast Aluminum	5028-0	**5X914**
Cover w/20A 120/277V DPST Switch	No Lid	1	Vertical	Cast Aluminum	5137-0	**4YF69**
Blank-Box Mount	No Lid	1	Horizontal or Vertical	Cast Zinc	5173-0	**2V706**
Lever Cover w/Two 10A, 125V SPST Switches	No Lid	2	Vertical	Cast Aluminum	5124-0	**4YF68**
Duplex Receptacles	(2) Self Closing	2	Vertical	Cast Aluminum	5148-0	**4A247**
Duplex and GFCI Receptacle	Self Closing	2	Vertical	Cast Aluminum	5033-0	**4LV83**
GFCI Receptacle, Padlockable	Self Closing	2	Vertical	Cast Aluminum	5045-0	**4LV84**
Blank-Box Mount	No Lid	2	Horizontal	Die-Cast Aluminum	5175-0	**4A246**
FS Single Gang and Tandem Cast Hub Device Boxes						
Single Receptacles, 1.406" dia.	(3) Self Closing	3	Vertical	Cast Zinc	5093-0	**19L545**
Blank-Box Mount	No Lid	3	Vertical	Cast Zinc	5177-0	**19L546**
Hubbell Wiring Device-Kellems						
FS or FD Weatherproof Boxes						
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL5222	**6C595**
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL5221	**6C594**
Duplex	Self Closing	1	Horizontal	Cast Aluminum	HBL5205WO	**6C592**
Duplex	Self Closing	1	Horizontal	Cast Aluminum	HBL5206WO	**6C593**
Single (1.40)	Self Closing	1	Vertical	Thermoplastic	HBL7423WO	**6C615**
Single (1.59)	Self Closing	1	Vertical	Thermoplastic	HBL7425WOA	**5C991**
Single (1.59)	Self Closing	1	Vertical	Cast Aluminum	HBL7420	**3D249**
Single (1.72)	Self Closing	1	Vertical	Thermoplastic	HBL7424WO	**3D250**
Single (2.15)	Self Closing	1	Vertical	Cast Aluminum	HBL9420	**3D297**
Single (2.15)	Self Closing	2	Vertical	Thermoplastic	HBL7777A	**3D279**
Flanged 15/20A Straight Blade Inlets/Outlets	Self Closing	1	Vertical	Reinforced Thermoplastic Polyester	WP1	**3D463**
20/30A Twist-Lock	Self Closing	1	Vertical	Thermoplastic	WP2	**3D464**
GFCI	Self Closing	1	Vertical	PVC	CWP26CR	**2EAU6**
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL52CM21	**3D194**
FS Single Gang and Tandem Cast Hub Device Boxes						
GFCI	Self Closing	1	Vertical	Cast Aluminum	WP26V	**14H188**
GFCI	Self Closing	1	Horizontal	Cast Aluminum	WP26H	**14H186**
Portable Outlet Box						
Duplex	Self Closing	1	Vertical	PBT Resin	HBL3056	**39EA01**
GFCI	Self Closing	1	Vertical	PBT Resin	HBL3061	**39EA05**



No. 1YVX3

While-In-Use Weatherproof Covers

INTERMATIC

Snap-fit design speeds installation. Padlockable. Corner drill points for box mounting. All have easy-to-remove cordset exit ports and adhered gasket. Single-gang has 16 possible configurations. Double-gang has 70 possible configurations. All are UL Listed and CSA Certified for wet locations while in use [NEC Article 406.8(B)]. Extra-Duty rated models (XD Suffix) comply with NEC requirements [NEC Article 406.9(B)(1)] for extra-duty applications and wet locations.

No. of Gangs	Receptacle Type	Mounting Orientation	Color	W	D	H	Mfr. Model	Item No.
Polycarbonate Body								
1	Duplex, GFCI, Toggle or Round	Horizontal or Vertical	Clear	3 13/16"	2¾"	5 49/64"	WP3100C	**1YVX3**
2	Duplex, GFCI, Toggle or Round	Vertical	Clear	5"	2⅝"	5½"	WP1220C	**4CAZ5**
Die-Cast Aluminum Body								
1	Duplex, GFCI, Toggle or Round	Vertical	Gray	3⅞"	3⅛"	3¼"	WP1010MXD	**29TH97**
1	Duplex, GFCI, Toggle or Round	Horizontal	Gray	5¾"	3⅛"	3¼"	WP1010HMXD	**29TH98**
2	Duplex, GFCI, Toggle or Round	Vertical	Gray	5¾"	3⅛"	3¼"	WP1030MXD	**29TH99**

HUBBELL TAYMAC

Weatherproof Outlet Covers

NEMA 3R covers install quickly using the Quick-Fit™ keyhole mounting system. Plastic In-Use covers can be custom-fit with Knock-Out™ technology. Durable high-impact polycarbonate construction features attached gasket and lockable tab. Include mounting hardware. Nos. 38R662 to 38R664 and 38R666 are Deep design.

Metal In-Use covers feature commercial-quality die-cast metal construction that meets or exceeds extra-duty specifications. Lockable open or closed. Universal-Fit™ technology with included gasket and mounting hardware.

All are UL Listed.


No. 38R684


No. 38R681


No. 38R657


No. 38R660

No. of Gangs	Type	Mounting Orientation	Color	W	D	Mfr. Model	Item No.
Metal							
1	In Use	Vertical	Gray	3⅜"	3½"	MX3200	**38R682**
1	In Use	Horizontal	Gray	5⅛"	3½"	MX3300	**38R683**
2	In Use	Horizontal or Vertical	Gray	5⅛"	3½"	MX6200	**38R684**
1	Low Profile	Horizontal or Vertical	Bronze	3⅝"	1" to 3½"	ML450Z	**38R681**
1	Low Profile	Vertical	Gray	3½"	2¼"	MX4280S	**38R685**
1	Low Profile	Horizontal	Gray	5¼"	2¼"	MX4380S	**38R686**
1	Low Profile	Vertical	Gray	2½"	2¾"	MX5280S	**38R687**
Plastic							
1	In Use	Horizontal or Vertical	Clear	3¾"	3"	MM410C	**38R657**
1	Flat Cover	Horizontal or Vertical	Clear	3¾"	1 7/16"	MM110C	**38R671**
1	Flat Cover	Horizontal or Vertical	Gray	3¾"	1 7/16"	MM110G	**38R672**
1	Flat Cover	Horizontal or Vertical	White	3¾"	1 7/16"	MM110W	**38R674**
2	Flat Cover	Vertical	Clear	5 7/16"	1 7/16"	MM1410C	**38R675**
2	Flat Cover	Vertical	Gray	5 7/16"	1 7/16"	MM1410G	**38R676**
2	Flat Cover	Vertical	White	5 7/16"	1 7/16"	MM1410W	**38R677**
1	In Use	Horizontal or Vertical	Gray	3¾"	3"	MM410G	**38R660**
1	In Use	Horizontal or Vertical	White	3¾"	3"	MM410W	**38R661**
1	In Use	Horizontal or Vertical	Clear	3¾"	3⅜"	MM510C	**38R662**
1	In Use	Horizontal or Vertical	Gray	3¾"	3⅜"	MM510G	**38R663**
1	In Use	Horizontal or Vertical	Clear	3¾"	5"	MM710C	**38R664**
1	In Use	Horizontal or Vertical	Gray	3¾"	5"	MM710G	**38R666**
2	In Use	Horizontal or Vertical	Clear	5 7/16"	3"	MM2410C	**38R667**
2	In Use	Horizontal or Vertical	Gray	5 7/16"	3"	MM2410G	**38R668**
2	In Use	Vertical	Clear	5⅜"	4¾"	MM7440C	**38R669**
2	In Use	Horizontal or Vertical	Gray	5⅜"	5½"	MM7440G	**38R670**
1	Low Profile	Horizontal or Vertical	Gray	3⅜"	1" to 3½"	ML450G	**38R678**
1	Low Profile	Horizontal or Vertical	White	3⅜"	1" to 3½"	ML450W	**38R680**

Stainless Steel Outlet Boxes and Covers

Calbrite
Stainless Steel Conduit Systems

These boxes and covers are designed to be used in wiring devices, such as switches and receptacles. 316 stainless steel, and polished with standard "brite" finish to increase corrosion resistance. Feature machined standard NPT threads. Internal grounding screw included and manufactured with mounting feet.

Box Type	No. of Gangs	No. of Inlets	Cap.	D	Item No.
FS	1	1	18.0 cu. in.	1.80"	**38AX90**
FD	1	1	25.0 cu. in.	2.50"	**38AX91**
FDCS	1	2	25.0 cu. in.	2.50"	**38AX92**
FDCD	2	2	45.0 cu. in.	2.50"	**38AX93**
Electrical Box Covers	1	—	—	⅛"	**36LM18**
	2	—	—	⅛"	**36LM19**
While In Use Weatherproof Covers	1	1	1.90 cu.in	3.50"	**38AY03**
	1	1	1.90 cu.in	5.50"	**38AY04**


No. 38AX91


No. 38AX93


No. 38AY03

Thomas&Betts
A Member of the ABB Group

Multiple-Service Floor Boxes

Open-office planning options abound with boxes that deliver power, communications, and data service from standard conduit with no exposed service fittings. Quick leveling to desired concrete depth. All are UL Listed (E2969). Nos. 2TEC3 and 2TEC7 are CSA Certified.


No. 2TEC3


No. 2TEC8


No. 30EC69


No. 2TDZ9


No. 2TEC5


No. 30EC73


No. 2TEE1


No. 30EC79

Description	Material	For Use With	Mfr. Model	Item No.
Floor Boxes				
Concealed Service, 2 Compartments, 90 cu. in.	Steel	—	664-SC	**2TEC3**
For Wood Floor Applications, 31 cu. in.	Steel	—	61 W	**2TEC7**
Poke-Through, Duplex Receptacle, Prewired Pigtail End in Junction Box, 27 cu. in.	Steel	—	FPT449	**2TEC8**
Shallow	Steel	—	664 S	**30EC66**
Multi-Gang, Rectangular, Power/ Data/Communications	PVC	—	E976RFB	**30EC67**
Adjust-A-Box, Residential, Tamper-Resistant Duplex Receptacle	Non-Metallic with Brass Cover	—	B121BFBB	**30EC69**
Floor Box Covers and Carpet Flanges				
Carpet Flange, Rectangular, 1 Gang	Brass	61W, 62W, 640P, 640, 840 and 740 Series Floor Boxes	P 64 CP	**2TDZ5**
Round Floor Box Covers with Integral Carpet Flange				
1 Pc., Duplex, Aluminum	Aluminum	68 and 600 Series Floor Boxes	P 60 CACP-AL	**2TDZ8**
Duplex, Brown	Polycarbonate	68 Series Floor Boxes	P 68 DRC BRN	**2TDZ9**
Recessed, Black, For Power and Communications	PVC	68 P Series Floor Boxes	68R-CST-BLK	**2TEC1**
Recessed, Brown, For Power and Communications	PVC	68 P Series Floor Boxes	68R-CST-BRN	**2TEC2**
Floor Box Covers				
Concealed, Scrub-Water, Black	PVC with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BLK	**2TEC4**
Concealed, Scrub-Water, Gray	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-GRY	**2TEC5**
Non-Metallic, Beige	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BGE	**30EC71**
Non-Metallic, Brown	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BRN	**30EC72**
Brass Finish	Brass	664 Series Floor Boxes	664-CST-M-BRS	**30EC73**
Floor Box Trim Rings				
Tile Trim Ring, Aluminum	Aluminum	68-P Floor Boxes	68PFLAL	**2TEE1**
Floor Box Activation Kits				
Multi-Gang, Rectangular Floor Box Kit, Power/Data/Communications	PVC	30EC67	E976AK2	**30EC68**
Floor Plate Plugs				
Replacement Plug for ½" Floor Cover	Brass	P64 Floor Plate Covers	690-SC	**30EC74**
Replacement Plug for ¾" Floor Cover	Brass	P64 Floor Plate Covers	691-SC	**30EC75**
Replacement Plug for 1" Floor Cover	Brass	P64 Floor Plate Covers	692-SC	**30EC76**
Replacement Plug for 1¼" Floor Cover	Brass	P64 Floor Plate Covers	693-SC	**30EC77**
Replacement Plug for 2½" Floor Cover	Brass	P64 Floor Plate Covers	695	**30EC79**
Replacement Plug for 2¾" Floor Cover	Brass	P64 Floor Plate Covers	696-SC	**30EC80**
Replacement Plug for 2⅝" Floor Cover	Brass	P64 Floor Plate Covers	697	**30EC81**
Replacement Plug for DU Floor Cover	Brass	P64 Floor Plate Covers	698	**30EC82**



Step 2
No. 3D444



Step 3
No. 3D440



Step 1
No. 3D308

Traditional Flush Floor Boxes

Satisfy a variety of office, retail, and commercial applications. Feature Scrubshield™ gasketing technology to exceed UL scrubwater exclusion requirements. Floor boxes are fully adjustable for height and leveling. Cast-iron and nonmetallic floor boxes provide corrosion resistance for slab-on-grade applications.

Description	Material	Mfr. Model	Item No.
Round Floor Boxes			
Step 1: Select Box			
Shallow, 33 cu. in.	Cast Iron	B2537	**2EML6**
Step 2: Select Cover			
Duplex Flap	Brass	S3925	**3D444**
Duplex Flap	Aluminum	SA3925	**4D541**
Duplex Screw	Brass	S3725	**3D442**
Duplex Screw	Aluminum	SA3725	**2EML7**
2⅛" Single Receptacle	Brass	S2925	**4D508**
Combination 2⅛" x ¾"	Brass	S2525	**3D439**
Combination 2⅛" x ¾"	Aluminum	SA2525	**2EML8**
2⅛" Single Receptacle	Aluminum	SA2925	**2EML9**
Step 3: Select Flange (Carpeted Areas Only)			
6¼" Dia.	Brass	S3082	**3D440**
5¼" Dia.	Brass	S3182	**4D513**
5¼" Dia.	Aluminum	SA3182	**4D537**
5¼" Dia.	Polycarbonate	S3079	**4D509**
Step 2 & 3 Combinations: 1-Pc. Cover and Flange			
Cover and Carpet Flange 2⅛" x ¾" Combination	Brass	SF2525	**2EMN1**
Duplex Cover and Carpet Flange	Brass	SF3925	**2DDX6**
Rectangular Floor Boxes			
Step 1: Select Floor Box			
1-Gang, Deep, Brass Collar, 33 cu. in.	Cast Iron	B2436	**4D140**
2-Gang, Deep, Brass Collar, 36.5 cu. in.	Cast Iron and Brass	B4233	**2EMR7**
1-Gang, Deep, Aluminum Collar, 33 cu. in.	Cast Iron	BA2436	**2EMR6**
2-Gang, Deep, Aluminum Collar, 36.5 cu. in.	Cast Iron and Aluminum	BA4233	**2EMR8**
1-Gang, 14.3 cu. in.	PVC	PFBRG1	**2EMN2**
2-Gang, 14.3 cu. in.	PVC	PFBRG2	**2EMN3**
1-Gang, Shallow, Brass Collar, 39.5 cu. in.	Steel	B2421	**2EMR2**
1-Gang, Shallow, Aluminum Collar, 39.5 cu. in.	Steel	BA2421	**2EMR3**
2-Gang, Shallow, Brass Collar, 35 cu. in.	Steel and Brass	B2422	**2EMR4**
2-Gang, Shallow, Aluminum Collar, 35 cu. in.	Steel and Aluminum	BA2422	**2EMR5**
Step 2: Select Cover(s)			
Duplex Flap	Brass	S3825	**3D443**
Duplex Flap	Aluminum	SA3825	**2DDX3**
Duplex Screw	Brass	S3625	**3D441**
Round Floor Boxes			
Step 1: Select Box			
Shallow, 37.3 cu. in.	Steel	B2529	**3D308**
Rectangular Floor Boxes			
Step 2: Select Cover(s)			
Duplex Screw	Aluminum	SA3625	**2EMT2**
Combination 2⅛" x ¾"	Brass	S2425	**3D438**
Combination 2⅛" x ¾"	Aluminum	SA2425	**2EMT3**
StyleLine® Decorator Flap	Brass	S3826	**2DDX1**
StyleLine® Decorator Flap	Aluminum	SA3826	**2DDX4**
StyleLine® Decorator or Duplex Receptacle, Gray (For PVC Boxes Only)	PVC	PFBR826GYA	**2EMN6**
Step 3: Select Flange (Carpeted Areas Only)			
1-Gang (For PVC Boxes Only), Gray	PVC	PFBRFGY1	**2EMN4**
1-Gang (For Metal or PVC Boxes)	Aluminum	SA3083	**2DDX2**
1-Gang (For Metal or PVC Boxes)	Brass	SB3083	**2DDX5**
2-Gang (For PVC Boxes Only), Gray	PVC	PFBRFGY2	**2EMN5**
2-Gang (For Metal or PVC Boxes)	Aluminum	SA3084	**2EMT1**
2-Gang (For Metal or PVC Boxes)	Brass	SB3084	**2EMR9**
Accessories			
Mounting Collar, Required for Tile Applications Only on PVC Boxes	PVC	PFBRMC	**2EMN7**
Cover Frame, Required for Tile Applications Only on PVC Boxes	PVC	PFBRFRA	**2EMN8**
Adapter Collar, For Use With Metal Covers and Flanges in Carpet and Tile Applications	PVC	PFBRAC	**2EMN9***
Adapter Frame With Ground Lug, For Use With Metal Covers and Flanges in Carpet and Tile Applications	Brass	S5017G	**2EMR1***
Flush Replacement Plug, 2⅛" Fine Thread	Brass	S5020	**4D522**

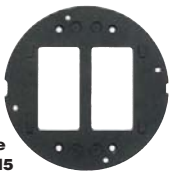
Required when using a PVC rectangular floor box and a metal cover.



Assembled
Poke-Through
No. 2DZL8



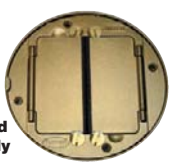
Step 1
Floor Box
No. 2DZL7



Step 2
Subplate
No. 2DZN5



Step 3
Carpet Flange and
Cover Assembly
No. 2DZL5



Step 3
Tile Flange and
Cover Assembly
No. 2DZP4

Multiservice Flush Floor Boxes and Fire-Rated Poke-Throughs

- Floor box is for min. 3" to 5" concrete pours, depending on application subplate
- Poke-throughs are for use in concrete floors from 2¼" to 7" thick
- 4" core hole

SystemOne floor box and fire-rated poke-throughs use a universal cover and various application subplates for consistent aesthetics.

Round, flush, nonmetallic floor box has a 1½" data conduit hub for higher capacity and bend radius suitable for Cat 6/6a, coax, and fiber cables. PVC construction can be saw-cut for easy after-pour adjustment.

Poke-throughs expand during a fire to create a fire seal and prevent heat transfer. Step-down clips allow removal from above. UL Listed for use in 1- to 4-hr. rated floors.

Universal cover with Scrubshield™ gasketing technology exceeds UL 514A scrubwater exclusion requirements.

Description	Material	Conduit Size	Hole Dia.	Mfr. Model	Item No.
Assembled 1-Pc. Fire Poke-Throughs, Includes Cover and Subplate					
4 x 4, Aluminum Finish	Steel	(3) ¾"	4"	S1PT4X4AL	**2DZL8**
4 x 4, Black	Steel and Aluminum	(3) ¾"	4"	S1PT4X4BL	**2DZL9**
4 x 4, Brass Finish	Steel and Brass	(3) ¾"	4"	S1PT4X4BRS	**2DZN1**
Dual Style Line, Aluminum Finish	Steel and Aluminum	(2) 1"	4"	S1PTAL	**2DZN2**
Dual Style Line, Black	Steel	(2) 1"	4"	S1PTBL	**2DZN3**
Dual Style Line, Brass Finish	Steel and Brass	(2) 1"	4"	S1PTBRS	**2DZN4**
Step 1: Select Floor Box or Fire-Rated Poke-Through Floor Box					
Round, Multi Service	PVC	(2) 1", (2) 1½"	—	S1PFB	**2DZL7**
Fire-Rated Poke-Through Systems					
Fire-Rated Poke-Through, Audio/Visual	Steel	(1)3/4", (1)1-1/2"	4"	S1PTAVFIT	**2EMT6**
Fire-Rated Poke-Through, Dual Channel	Steel	(2) 1"	4"	S1PTFIT	**2EMT7**
Fire-Rated Poke-Through, 4 x 4	Steel	(3) ¾"	4"	S1PT4X4FIT	**2EMT8**

Description	Finish	Mfr. Model	Item No.
Step 2: Select Subplate			
Style Line/GFCI Subplate	—	S1SP	**2DZN5**
4 x 4 Subplate	—	S1SP4X4	**2DZN6** *
Furniture Feed Subplate, Alumnium Finish	—	S1SPFFAL	**2DZN7**
Furniture Feed Subplate, Black Finish	—	S1SPFFBL	**2DZN8**
Furniture Feed Subplate, Brass Finish	—	S1SPFFBRS	**2DZN9**
Twist-Lock and Data Subplate	—	S1SPTL	**2DZP1** *
Step 3: Select Carpet Flange or Tile Flange			
Carpet Flange and Cover Assembly			
Universal Cover for Carpet	Aluminum	S1CFCAL	**2DZL4**
Universal Cover for Carpet	Black	S1CFCBL	**2DZL5**
Universal Cover for Carpet	Brass	S1CFCBRS	**2DZL6**
Tile Flange and Cover Assembly			
Universal Cover for Tile	Aluminum	S1TFCAL	**2DZP2**
Universal Cover for Tile	Black	S1TFCBL	**2DZP3**
Universal Cover for Tile	Brass	S1TFCBRS	**2DZP4**
Accessories			
Side by Side Divider for No. 2DZL7	—	S1DIV1	**2EMT4**
Universal Cover Mounting Clips for No. 2DZL7	—	S1FBCLIP	**2EMT5**
Power Junction Box for Fire-Rated Poke-Throughs, 27 cu. in.	—	S1FRPTJB	**4FUA1**

Must be used with No. 2EMT8 when installed in fire rated poke-through.



No. 52AW86



No. 52AW80



No. 52AW83

Floor Boxes

Ideally suited for heavy floor traffic applications, such as shopping malls, retail stores, banks and schools. These floor boxes are installed in poured concrete floors and are fed with conduit. Floor box covers and carpet flanges are offered in brushed brass.

Item	Cap.	Conduit Size	Material	Shape	For Use With	Mfr. Model	Item No.
Floor Box	19.5 cu. in.	¾"	PVC	—	—	5511	**52AW85**
Floor Box	54.0 cu. in.	¾"	Steel	—	—	6255	**52AW86**
Floor Box	37.3 cu. in.	¾"	Steel	—	—	6257	**52AW87**
Tile Flange	—	—	Brass	Round	PVC Floor Boxes	6298	**52AW80**
Carpet Flange	—	—	Brass	Round	PVC Floor Boxes	6235	**52AW81**
Flush Replacement Plug	—	—	Brass	Round	Mfr. No. 6284, 6288	6226	**52AW84**
Floor Box Cover	—	—	Brass	Rectangular	Floor Boxes	6250	**52AW82**
Floor Box Cover	—	—	Brass	Round	Floor Box	RAC5500KIT	**52AW83**


EMT
No. 6XC30


45° Elbow
No. 36LJ25


90° Elbow
No. 36LJ07


Nipple
No. 52AX79

Metal Conduit, Elbows, and Nipples

UL Listed.

Electrical Metallic Tubing (Thin Wall)—Unthreaded metallic tubing provides easy bending, cutting, and joining. Resists flattening, kinking, and splitting to help create smooth continuous raceways for faster wire pulling.

Intermediate Metal Conduit (IMC)—Threaded conduit (unless noted) is as strong as rigid conduit, and weighs up to 30% less. Suitable for use in hazardous locations. Larger interior diameter enables faster wire pulling.

Rigid Steel Conduit (GRC) (Heavy Wall)—Threaded conduit resists impact and provides radiation protection and magnetic shielding.

Rigid Aluminum Conduit—Approximately ⅓ the weight of rigid steel conduit. Resists most corrosive atmospheres; won't leave discoloring stains or streaks. Cuts, bends, and threads easily without special tools.

Description	Material	Nom. L	Brand	TRADE SIZE ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.
Conduit												
EMT	Galvanized Steel	5 ft	Allied	6MPR9	6MPT0	—	—	—	—	—	—	—
EMT	Galvanized Steel	10 ft	Allied	6XC30	6XC31	6XC32	5ZM14	5ZM12	5ZM23	5GUH8	5GUH9	5GUJ1
EMT	304 Stainless Steel	10 ft	Calbrite	36LM37	36LM38	36LM39	36LM40	36LM41	36LM42	—	—	—
EMT, Green	Steel	10 ft	Allied	1YTF7	1YTF8	—	—	—	—	—	—	—
EMT, Red	Steel	10 ft	Allied	1YTF5	1YTF6	—	—	—	—	—	—	—
IMC	Galvanized Steel	10 ft	Allied	6XC33	6XC34	6XC35	5ZM15	5ZM13	5GUJ2	5GUJ3	—	5GUJ6
IMC	316 Stainless Steel	10 ft	Calbrite	36LL63	36LL64	36LL65	—	36LL66	36LL67	—	—	—
IMC	304 Stainless Steel	10 ft	Calbrite	36LL58	36LL59	36LL60	—	36LL61	36LL62	—	—	—
IMC w/o Threads	316 Stainless Steel	10 ft	Calbrite	36LL53	36LL54	36LL55	—	36LL56	36LL57	—	—	—
IMC w/o Threads	304 Stainless Steel	10 ft	Calbrite	36LL48	36LL49	36LL50	—	36LL51	36LL52	—	—	—
Rigid	Galvanized Steel	10 ft	Allied	5ZM19	5ZM30	5ZM17	5GUJ7	5GUJ8	5ZM25	5GUJ9	5GUK0	5GUK2
Rigid	Aluminum	10 ft	Allied	5ZM18	5ZM29	5ZM16	5GUK7	5GUK8	5ZM22	5GUK9	5GUL0	5GUL2
Rigid	316 Stainless Steel	10 ft	Calbrite	36LL39	36LL40	36LL41	36LL42	36LL43	36LL44	36LL45	36LL46	36LL47
Rigid	304 Stainless Steel	10 ft	Calbrite	36LL30	36LL31	36LL32	36LL33	36LL34	36LL35	36LL36	36LL37	36LL38

Description	Material	Brand	CONDUIT SIZE ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
EMT Conduit Elbows								
90°	Steel	Raco	52AX90	52AX91	52AV06	52AV03	52AV05	52AV04
90°	316 Stainless Steel	Calbrite	36LK75	36LK76	36LK77	—	—	—
90°	304 Stainless Steel	Calbrite	36LK72	36LK73	36LK74	—	—	—
Rigid Conduit Elbows								
45°	316 Stainless Steel	Calbrite	36LJ34	36LJ35	36LJ36	36LJ37	36LJ38	36LJ39
45°	304 Stainless Steel	Calbrite	36LJ25	36LJ26	36LJ27	36LJ28	36LJ29	36LJ30
90°	Steel	Raco	52AX75	52AU84	52AV19	52AX76	52AV41	52AV24
90°	316 Stainless Steel	Calbrite	36LJ16	36LJ17	36LJ18	36LJ19	36LJ20	36LJ21
90°	304 Stainless Steel	Calbrite	36LJ07	36LJ08	36LJ09	36LJ10	36LJ11	36LJ12
Rigid Conduit Nipples								
2" Length	Steel	Raco	52AX77	52AX78	—	—	—	—
3" Length	Steel	Raco	—	—	—	52AX85	—	52AX82
5" Length	Steel	Raco	—	—	—	—	—	52AX84
6" Length	Steel	Raco	—	52AX86	52AX87	52AX88	52AX89	—
Chase Closed	Zinc	Raco	3LP48	3LP49	3LP50	3LP51	3LP52	3LP53
Close Length	Steel	Raco	52AU68	52AU73	52AX79	52AX80	52AX81	52AX83
Close Length	316 Stainless Steel	Calbrite	36LL21	36LL22	36LL23	36LL24	36LL25	36LL26
Close Length	304 Stainless Steel	Calbrite	36LL12	36LL13	36LL14	36LL15	36LL16	36LL17
Offset Nipples	Zinc	Raco	30EJ92 ‡	30EJ93 †	30EJ94 *	—	—	—

Pkg. of 15. † Pkg. of 20. ‡ Pkg. of 50.

90° Pulling Elbows

Threaded UB body style. Arlington models are threaded for rigid, but with set screws for EMT. Listed raintight for rigid; concretetight for EMT when taped.

Conduit Outlet Body Hub Size	Special Features	Brand	Mfr. Model	Item No.
Zinc				
½ in	EMT to Box 90°	Raco	2762	6XC48
½ in	Rigid	Raco	2662	52AW04
¾ in	EMT to Box 90°	Raco	2763	6XC49
¾ in	Rigid	Raco	2663	52AW11
1 in	Rigid	Raco	2654	52AW14
1 in	Rigid, Male/Female	Raco	2664RAC	52AW22
1 ¼ in	Rigid/EMT to Box	Arlington	9130	4JWK4
1 ¼ in	Rigid/EMT	Arlington	HL125	4JWK8
316 Stainless Steel				
¾ in	Rigid	Calbrite	S60700P900	36LK14
1 in	Rigid	Calbrite	S61000P900	36LK15


No. 52AW04


No. 36LK14



Style T Raco Aluminum No. 52AW03



Style LB Killark Duraloy®7 No. 2NA56

Conduit Bodies

- For a NEMA 3 seal, use with cover and neoprene gasket (both sold separately) except as noted

Provides access to conductors for pulling, splitting, and maintenance. Flat-back design increases wiring capacity and mounting stability. Covers include stainless steel screws. Larger sizes available on Grainger.com®.

Description	½ in Mfr. Model	½ in Item No.	¾ in Mfr. Model	¾ in Item No.	1 in Mfr. Model	1 in Item No.	1 ¼ in Mfr. Model	1 ¼ in Item No.	1 ½ in Mfr. Model	1 ½ in Item No.	2 in Mfr. Model	2 in Item No.
Raco Aluminum, Form 85												
LB	LB050	**52AW01**	LB075	**52AW02**	LB100	**52AW08**	LB125	**52AW16**	LB150	**52AW18**	LB200	**52AW17**
LR	LR050	**52AW06**	LR075	**52AW09**	LR0100	**52AW20**	LR125	**52AW29**	LR150	**52AW28**	LR200	**52AW25**
LL	LL050	**52AW10**	LL075	**52AW13**	LL0100	**52AW19**	LL125	**52AW31**	LL150	**52AW27**	LL200	**52AW34**
T	T050	**52AW03**	T075	**52AW05**	T100	**52AW15**	T125	**52AW23**	T150	**52AW24**	T200	**52AW32**
C	RC050	**52AW07**	RC075	**52AW12**	RC100	**52AW21**	RC125	**52AW26**	RC150	**52AW30**	RC200	**52AW33**
Cover	CSC050	**52AU31**	CSC075	**52AU33**	CSC100	**52AU35**	CSC125	**52AU37**	CSC150	**52AU39**	CSC200	**52AU38**
Gasket	CRG050	**52AU32**	CRG075	**52AU34**	CRG100	**52AU36**	CRG125	**52AU40**	CRG125	**52AU40**	CRG200	**52AU41**
Appleton Electric Copper Free Aluminum, Form 85, Setscrew												
LB	LB50T-A	**10V967**	LB75T-A	**10V977**	LB100T-A	**10V931**	LB125T-A	**10V937**	LB150T-A	**10V940**	LB200T-A	**10V946**
LL	LL50T-A	**10W024**	LL75T-A	**10W033**	LL100T-A	**10V989**	LL125T-A	**10V994**	LL150T-A	**10V997**	LL200T-A	**10W004**
T	T50T-A	**10W130**	T75T-A	**10W139**	T100T-A	**10W098**	—	—	—	—	—	—
C	C50T-A	**10Y698**	C75T-A	**10V895**	C100T-A	**10Y667**	C125T-A	**10Y670**	C150T-A	**10Y673**	—	—
Cover	K50-A	**10V925**	K75-A	**10V928**	K100-A	**10V912**	—	—	—	—	K200-A	**10V918**
Gasket	GK50-N	**10V908**	GK75-N	**10V910**	GK100-N	**10V902**	GK125-150-N	**10V903**	GK125-150-N	**10V903**	GK200-N	**10V904**
Power First Iron, Form 5												
LR	—	—	—	—	—	—	30UH02	**30UH02**	—	—	30UH04	**30UH04**
LL	—	—	—	—	—	—	30UH08	**30UH08**	—	—	—	—
C	—	—	—	—	—	—	—	—	—	—	30UH22	**30UH22**
Cover	SSC050	**52AX94**	SSC075	**52AX95**	SSC100	**52AX96**	SSC125	**52AX97**	—	—	SSC200	**52AX98**
Hubbell Killark 5 Aluminum												
LB	OLB-1CG	**4TZR1**	OLB-2CG	**4TZR2**	OLB-3CG	**4TZR3**	OLB-4CG	**4TZR4**	OLB-5CG	**4TZR5**	OLB-6CG	**4TZR6**
X	OX-1	**49ZW31**	OX-2	**49ZW26**	OX-3	**49ZW47**	—	—	—	—	—	—
Hubbell Killark 5 Copper Free Aluminum												
LB	OLB-1	**2NA99**	OLB-2	**2NB11**	OLB-3	**2NB13**	OLB-4	**2NB15**	OLB-5	**2NB17**	OLB-6	**2NB19**
LR	OLR-1	**2NB36**	OLR-2	**2NB38**	OLR-3	**2NB40**	OLR-4	**2NB42**	—	—	OLR-6	**2NB46**
LL	OLL-1	**2NB24**	OLL-2	**2NB26**	OLL-3	**2NB28**	OLL-4	**2NB30**	OLL-5	**2NB32**	OLL-6	**2NB34**
T	OT-1	**2NB48**	OT-2	**2NB51**	OT-3	**2NB55**	OT-4	**2NB59**	OT-5	**2NB63**	OT-6	**2NB67**
C	OC-1	**2NA75**	OC-2	**2NA77**	OC-3	**2NA79**	OC-4	**2NA81**	OC-5	**2NA83**	OC-6	**2NA85**
Cover	OL-10	**2NA87**	OL-20	**2NA89**	OL-30	**2NA91**	OL-450	**2NA93**	OL-450	**2NA93**	OL-60	**2NA96**
Hubbell Killark Duraloy®5 Iron												
LB	OLB-1M	**2NB10**	OLB-2M	**2NB12**	OLB-3M	**2NB14**	OLB-4M	**2NB16**	OLB-5M	**2NB18**	OLB-6M	**2NB20**
LR	OLR-1M	**2NB37**	OLR-2M	**2NB39**	OLR-3M	**2NB41**	OLR-4M	**2NB43**	OLR-5M	**2NB45**	OLR-6M	**2NB47**
LL	OLL-1M	**2NB25**	OLL-2M	**2NB27**	OLL-3M	**2NB29**	OLL-4M	**2NB31**	OLL-5M	**2NB33**	OLL-6M	**2NB35**
T	OT-1M	**2NB49**	OT-2M	**2NB53**	OT-3M	**2NB57**	OT-4M	**2NB61**	OT-5M	**2NB65**	OT-6M	**2NB69**
C	OC-1M	**2NA76**	OC-2M	**2NA78**	OC-3M	**2NA80**	OC-4M	**2NA82**	OC-5M	**2NA84**	OC-6M	**49ZW71**
TB	OTB-1M	**2NB73**	OTB-2M	**2NB77**	OTB-3M	**2NB81**	OTB-4M	**2NB85**	OTB-5M	**2NB89**	OTB-6M	**2NB93**
X	OX-1M	**49ZW29**	OX-2M	**49ZW24**	OX-3M	**49ZW36**	OX-4M	**49ZX19**	OX-5M	**49ZW88**	OX-6M	**49ZW72**
Cover	OL-10M	**2NA88**	OL-20M	**2NA90**	OL-30M	**2NA92**	OL-45M	**2NA94**	OL-45M	**2NA94**	OL-60	**2NA98**
Gasket	OLK-1RG	**2NB21**	OLK-2RG	**2NB22**	OLK-3RG	**2NB23**	OL-45-RG	**2NA95**	OL-45-RG	**2NA95**	OL-6-RG	**2NA97**
Hubbell Killark Duraloy®7 Gray Iron												
LB	LB17	**2NA56**	LB27	**2NA57**	LB37	**2NA58**	LB47	**2NA59**	LB57	**2NA60**	LB67	**2NA61**
LR	LR17	**2NA68**	LR27	**2NA69**	LR37	**2NA70**	LR47	**2NA71**	LR57	**2NA72**	LR67	**2NA73**
LL	LL17	**2NA62**	LL27	**2NA63**	LL37	**2NA64**	LL47	**2NA65**	LL57	**2NA66**	LL67	**2NA67**
T	T17	**2NE39**	T27	**2NE40**	T37	**2NE41**	T47	**2NE42**	T57	**2NE43**	T67	**2NE44**
C	C17	**2MY76**	C27	**2MY77**	C37	**2MY78**	C47	**2MY79**	C57	**2MY80**	C67	**2MY81**
TB	TB17	**2NE45**	TB27	**2NE46**	TB37	**2NE47**	TB47	**2NE48**	TB57	**2NE49**	TB67	**2NE50**
X	X17	**49ZW28**	X27	**49ZW23**	X37	**49ZW33**	X47	**49ZW70**	X57	**49ZX53**	—	—
Cover	170	**2MY56**	270	**2MY57**	370	**2MY58**	470	**2MY59**	570	**2MY60**	670	**2MY61**
Gasket	GASK571	**2NA30**	GASK572	**2NA31**	GASK573	**2NA32**	GASK574	**2NA33**	GASK575	**2NA34**	GASK576	**2NA35**
Hubbell Killark Duraloy®8 Gray Iron												
LB	LB18	**49ZW43**	LB28	**49ZW38**	LB38	**49ZW59**	LB448	**49ZW61**	LB58	**49ZW67**	LB68	**49ZW49**
LR	LR18	**49ZW92**	LR28	**49ZW73**	LR38	**49ZX09**	—	—	LR58	**49ZX15**	LR68	**49ZW58**
LL	LL18	**49ZW46**	LL28	**49ZX07**	LL38	**49ZW89**	—	—	LL58	**49ZW83**	LL68	**49ZW79**
T	T18	**49ZW75**	T28	**49ZW34**	T38	**49ZW64**	T448	**49ZX22**	T58	**49ZX31**	T68	**49ZX29**
C	C18	**49ZW48**	C28	**49ZW44**	C38	**49ZW96**	C448	**49ZX34**	—	—	—	—
X	X18	**49ZX44**	X28	**49ZW63**	X38	**49ZW52**	X448	**49ZX37**	X58	**49ZW98**	X68	**49ZX57**
Calbrite 316 Stainless Steel, Includes Cover and Gasket, Form 8												
LB	S60500LB00	**36LL74**	S60700LB00	**36LL75**	S61000LB00	**36LL76**	S61200LB00	**36LL77**	S61500LB00	**36LL78**	S62000LB00	**36LL79**
LR	S60500LR00	**36LL88**	S60700LR00	**36LL89**	S61000LR00	**36LL90**	—	—	S61500LR00	**36LL91**	S62000LR00	**36LL92**
LL	S60500LL00	**36LL83**	S60700LL00	**36LL84**	S61000LL00	**36LL85**	—	—	S61500LL00	**36LL86**	S62000LL00	**36LL87**
T	S60500TE00	**36LL93**	S60700TE00	**36LL94**	S61000TE00	**36LL95**	S61200TE00	**36LL96**	S61500TE00	**36LL97**	S62000TE00	**36LL98**
C	S60500CE00	**36LL68**	S60700CE00	**36LL69**	S61000CE00	**36LL70**	S61200CE00	**36LL71**	S61500CE00	**36LL72**	S62000CE00	**36LL73**
TB	S60500TB00	**36LM03**	S60700TB00	**36LM04**	S61000TB00	**36LM05**	—	—	S61500TB00	**36LM06**	S62000TB00	**36LM07**
XB	S60500XB00	**36LM08**	S60700XB00	**36LM09**	S61000XB00	**36LM10**	—	—	S61500XB00	**36LM11**	S62000XB00	**36LM12**
Cover & Gasket	S60500CG00	**36LM13**	S60700CG00	**36LM14**	S61000CG00	**36LM15**	—	—	S61500CG00	**36LM16**	S62000CG00	**36LM17**

RACO ALUMINUM

Durable die-cast aluminum construction with premium powder-coated finish. Combination head screw and stamped aluminum cover (sold separately).

APPLETON ELECTRIC ALUMINUM

Provide greater cubic content for easier wire pulling, and additional room for splicing. Fit flush and snug against flat surfaces for stable installation.

POWER FIRST® IRON

Features chrome powdered finish with zinc-plating for corrosion resistance. Works with Raco gaskets.

KILLARK® 5 ALUMINUM

Tapered threaded hubs. Raintight when used with gasketed covers. Use with the same gasket as Duraloy 5.

KILLARK® DURALOY®5 IRON

Excellent for high-abuse areas. Suitable for concrete burial. Duraloy® tricoat finish provides superior corrosion protection.

KILLARK DURALOY®7 GRAY IRON

Spring-clip cover ensures easy installation. Duraloy® tricoat finish provides superior corrosion protection. Smooth, integral wire bushings to protect against damage while wire-pulling.

KILLARK DURALOY®8 GRAY IRON

Flat back design provides greater cubic capacity for easier wire pulling and more room for splicing and maintenance. Feature interchangeable competitive bodies, gaskets, and covers with smooth integral wire bushings.

CALBRITE™ STAINLESS STEEL

Designed to connect and change direction of conduit runs; can also be used as pulling fittings. Feature 316 stainless steel construction polished with standard "brite" finish to increase corrosion resistance and aesthetic appearance.



No. 4JWJ1

Convertible Conduit Bodies

- Type LB, T, LL, LR, or C

Ship in LB configuration but convert to T, LL, LR, or C with a quick switch of the covers or flanges. Aluminum bodies feature set screw and threaded flanges; Nos. 4JWH6 to 4JWH8 feature threaded flanges (rigid only). Plastic bodies feature glue-in flanges. UL Listed, CSA Certified.

Conduit Outlet Body Hub Size	ALUMINUM Brand	ALUMINUM Item No.	PVC Brand	PVC Item No.
½ in	Raco	**52NE18**	Arlington	**4JWJ1**
¾ in	Raco	**52NE19**	Arlington	**4JWJ2**
1 ¼ in	Arlington	**4JWH3**	Arlington	**4JWJ4**
1 ½ in	Arlington	**4JWH4**	Arlington	**4JWJ5**
1 in	Raco	**52AY22**	Arlington	**4JWJ3**
2 in	Arlington	**4JWH5**	Arlington	**4JWJ6**
2 ½ in	Arlington	**4JWH6**	Arlington	**4JWJ7**
3 in	Arlington	**4JWH7**	Arlington	**4JWJ8**
3 ½ in	Arlington	**4JWH8**	—	—
4 in	Arlington	**4JWH9**	Arlington	**4JWJ9**


Bushing


Grounding Bushing


Knockout Seal


Box Connector


Compression Connector


2-Piece Connector


Set Screw Connector


Set Screw Coupling


Hub


Bonding Locknut


Reducing Bushing


Reducing Washer

RACO
A Division of Hubbell Incorporated (Delaware)

Calbrite
Stainless Steel Conduit Systems

Conduit Fittings

Use to couple, connect, fasten, or ground conduit or cables.

Item	Conduit Fitting Material	For Use With	Brand	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Bushing									
Bushing	Malleable Iron	Threaded Rigid/IMC Conduit, Fittings	Raco	52AX73	52AV43	52AV61	52AV89	52AV91	52AV83
Bushing	316 SS	Rigid/IMC Conduit	Calbrite	—	36LK16	36LK17	—	—	—
Grounding Bushing	Malleable Iron	Threaded Rigid/IMC Conduit, Fittings	Raco	—	—	—	52AX63	52AX64	52AX65
Grounding Bushing	Die Cast Zinc	Threaded Rigid/IMC Conduit	Raco	52AV17	52AU89	52AV09	—	—	—
Insulating Bushing	Plastic	Threaded Rigid/IMC Conduit, Fittings	Raco	52AU51	52AU53	52AU60	52AU81	52AU80	52AU70
Insulating Bushing	Plastic	EMT Conduit	Raco	52AU90	52AU86	52AV18	52AV63	52AV38	52AV33
Cap									
Conduit Cap	316 SS	Threaded Metallic Conduit	Calbrite	36LK42	36LK43	36LK44	36LK45	36LK46	36LK47
Knockout Plug	Steel	Electrical Boxes and Enclosures	Raco	52AW71	52AW72	52AW73	52AW74	52AW75	52AW76
Connector									
Box Connector	316 SS	Threaded Metallic Conduit	Calbrite	36LK05	36LK06	36LK07	36LK08	36LK09	36LK10
Compression Connector	Steel	EMT Conduit	Raco	52AU97	52AU91	52AV52	52AV69	52AV90	52AV82
Compression Connector	Die Cast Zinc	EMT Conduit	Raco	52NE11	52NE12	52AU95	52AV36	—	—
Compression Connector	316 SS	Rigid Conduit	Calbrite	36LK23	36LK24	36LK25	—	36LK26	36LK27
Compression Connector	316 SS	EMT Conduit	Calbrite	36LK48	36LK49	36LK50	36LK51	36LK52	36LK53
Compression Connector, Rain Tight	Steel	EMT Conduit	Raco	52AU55	52AU57	52AU74	52AV31	52AV42	52AV30
Connector, Two-piece	Die Cast Zinc	EMT Conduit	Raco	52AV60	52AV75	—	—	—	—
Insulated Compression Connector, Rain Tight	Steel	EMT Conduit	Raco	52AU75	52AU82	52AV21	52AV57	52AV72	52AV74
Insulated Set Screw Connector	Steel	EMT Conduit	Raco	—	52AU83	—	—	—	52AV70
Insulated Set Screw Connector	Die Cast Zinc	EMT Conduit	Raco	52AU85	52AV10	52AV35	52AV45	52AV48	52AV71
Set Screw Connector	Steel	Unthreaded Rigid/IMC Conduit	Raco	52AV39	—	52AV66	52AV40	52AV94	52AV92
Set Screw Connector	Steel	EMT Conduit	Raco	52AU49	52AU61	52AU94	52AV32	52AV62	52AV50
Set Screw Connector	Die Cast Zinc	EMT Conduit	Raco	52AU43	52AU46	52AU76	52AV14	52AU98	52AV15
Set Screw Connector	316 SS	EMT Conduit	Calbrite	36LK60	36LK61	36LK62	36LK63	36LK64	36LK65
Coupling									
Combination Coupling	Malleable Iron	EMT Conduit to Flexible Conduit	Raco	52AV28 *	52AV27	—	—	—	—
Combination Coupling	Die Cast Zinc	EMT Conduit to Flexible Conduit	Raco	52AV08	—	—	—	—	—
Compression Coupling	Steel	EMT Conduit	Raco	52AU67	52AU62	52AU99	52AV51	52AV67	52AV68
Compression Coupling	Steel	Unthreaded Rigid/IMC Conduit	Raco	52AV23	52AV16	52AV53	52AV84	52AV81	52AV87
Compression Coupling	Die Cast Zinc	EMT Conduit	Raco	—	52AU65	52AV02	52AV25	52AV34	—
Compression Coupling	316 SS	Rigid Conduit	Calbrite	36LK18	36LK19	36LK20	—	36LK21	36LK22
Compression Coupling	316 SS	EMT Conduit	Calbrite	36LK54	36LK55	36LK56	36LK57	36LK58	36LK59
Compression Coupling, Rain Tight	Steel	EMT Conduit	Raco	—	52AU79	52AV12	52AV47	52AV73	52AV56
Counter-Sunk Hex Head Plug	316 SS	Threaded Metallic Conduit	Calbrite	36LJ71	36LJ72	36LJ73	36LJ74	36LJ75	36LJ76
Coupling, Three-piece	Malleable Iron	Threaded Rigid/IMC Conduit	Raco	52AU93	52AU78	52AV26	52AV65	52AV78	52AV85
Coupling, Three-piece	316 SS	Threaded Metallic Conduit	Calbrite	36LJ95	36LJ96	36LJ97	36LJ98	36LJ99	36LK01
Set Screw Combination Coupling	Steel	Unthreaded EMT/Rigid/IMC Conduit	Raco	52AV93	52AV79	52AV99	—	—	—
Set Screw Coupling	Steel	EMT Conduit	Raco	52AU58	52AU59	52AU96	52AV37	52AV64	52AV44
Set Screw Coupling	Steel	Unthreaded Rigid/IMC Conduit	Raco	—	52AV49	52AV77	52AV98	52AV55	52AV95
Set Screw Coupling	Die Cast Zinc	EMT Conduit	Raco	52AU44	52AU52	52AU77	52AV13	52AV22	52AV07
Set Screw Coupling	316 SS	EMT Conduit	Calbrite	36LK66	36LK67	36LK68	36LK69	36LK70	36LK71
Threaded Coupling	Steel	Threaded Rigid/IMC Conduit	Raco	52AU48	52AU50	52AU66	—	52AV01	52AX74
Threaded Coupling	316 SS	Threaded Metallic Conduit	Calbrite	36LJ61	36LJ62	36LJ63	36LJ64	36LJ65	36LJ66
Elbow									
Elbow 90 Degree	Malleable Iron	Threaded Rigid/IMC Conduit	Raco	52AV20	52AV29	—	—	—	—
Escutcheon Plate									
Escutcheon Plate	304 SS	Rigid Conduit	Calbrite	36LK82	36LK83	36LK84	36LK85	36LK86	36LK87
Hub									
Grounding Hub	316 SS	Threaded Metallic Conduit	Calbrite	36LJ52	36LJ53	36LJ54	36LJ55	36LJ56	36LJ57
Hub	Die Cast Zinc	Threaded Rigid/IMC Conduit	Raco	52AU56	52AU47	52AU63	52AU92	52NE21	52AU87
Hub	316 SS	Threaded Metallic Conduit	Calbrite	36LJ43	36LJ44	36LJ45	36LJ46	36LJ47	36LJ48
Locknut									
Bonding Locknut	Steel	Threaded Rigid/IMC Conduit, Fittings	Raco	52AV54	—	52AV76	52AV80	52AV88	52AV86
Locknut	Steel	Threaded Rigid/IMC Conduit, Fittings	Raco	52AU42	52AU45	52AU54	52AU72	52AU71	52AU64
Locknut	316 SS	Threaded Metallic Conduit	Calbrite	36LL03	36LL04	36LL05	36LL06	36LL07	36LL08

Conduit Size	Material	Brand	REDUCING BUSHING Item No.	REDUCING WASHER Item No.
Reducing Bushings & Washers				
¾" to ½"	Zinc Plated Steel	Raco	52AW35	—
¾" to ½"	Steel	Raco	—	52AW36
1" to ½"	Steel	Raco	52AW39	—
1" to ½"	316 SS	Calbrite	36LJ81	—
1" to ¾"	Steel	Raco	—	52AW37
1" to ¾"	Zinc Plated Steel	Raco	52AW38	—
1" to ¾"	316 SS	Calbrite	36LJ82	—
1¼" to ½"	Steel	Raco	52AW56	52AW45
1¼" to ½"	316 SS	Calbrite	36LJ83	—
1¼" to ¾"	Steel	Raco	52AW47	52AW40
1¼" to ¾"	316 SS	Calbrite	36LJ84	—
1¼" to 1"	Steel	Raco	52AW44	52AW41

Conduit Size	Material	Brand	REDUCING BUSHING Item No.	REDUCING WASHER Item No.
1¼" to 1"	316 SS	Calbrite	36LJ85	—
1½" to ½"	Steel	Raco	52AW61	52AW49
1½" to ½"	316 SS	Calbrite	36LJ86	—
1½" to ¾"	Steel	Raco	52AW46	52AW42
1½" to ¾"	316 SS	Calbrite	36LJ87	—
1½" to 1"	Steel	Raco	52AW48	52AW43
1½" to 1"	316 SS	Calbrite	36LJ88	—
1½" to 1¼"	Steel	Raco	52AW50	52AW51
1½" to 1¼"	316 SS	Calbrite	36LJ89	—
2" to ½"	Steel	Raco	52AW70	52AW59
2" to ½"	316 SS	Calbrite	36LJ90	—
2" to ¾"	Steel	Raco	52AW66	52AW54
2" to ¾"	316 SS	Calbrite	36LJ91	—

Conduit Size	Material	Brand	REDUCING BUSHING Item No.	REDUCING WASHER Item No.
2" to 1"	Steel	Raco	52AW60	52AW52
2" to 1"	316 SS	Calbrite	36LJ92	—
2" to 1¼"	Steel	Raco	52AW63	52AW57
2" to 1¼"	316 SS	Calbrite	36LJ93	—
2" to 1½"	Steel	Raco	52AW55	52AW53
2" to 1½"	316 SS	Calbrite	36LJ94	—
2½" to 1"	Steel	Raco	—	52AW65
2½" to 1¼"	Steel	Raco	—	52AW69
2½" to 1½"	Steel	Raco	—	52AW64
2½" to 2"	Steel	Raco	—	52AW62
3" to 1¼"	Steel	Raco	—	52AW68
3" to 1½"	Steel	Raco	—	52AW67
3" to 2"	Steel	Raco	—	52AW58

Item	Conduit Fitting Material	For Use With	Brand	2 ½ in Item No.	3 in Item No.	3 ½ in Item No.	4 in Item No.
Large Diameter Fittings							
Bonding Locknut	Steel	Threaded Rigid/IMC Conduit, Fittings	Raco	52AV97	—	—	—
Box Connector	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LK11	36LK12	—	36LK13
Compression Connector	Steel/Malleable Iron	Rigid/IMC Conduit	Raco	20VE31	20VE32	20VE33	20VE34
Compression Connector	Die Cast Zinc	EMT Conduit	Raco	20VE11	20VE12	20VE13	20VE14
Compression Coupling	Steel/Malleable Iron	Rigid/IMC Conduit	Raco	20VE35	20VE36	20VE37	20VE38
Compression Coupling	Die Cast Zinc	EMT Conduit	Raco	20VE15	20VE16	20VE17	20VE18
Counter-Sunk Hex Head Plug	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ77	36LJ78	—	36LJ79
Coupling, Three-piece	Steel	Threaded Metallic Conduit	Raco	20VE39	20VE40	20VE41	20VE42
Coupling, Three-piece	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LK02	36LK03	—	36LK04
Escutcheon Plate	304 Stainless Steel	Rigid Conduit	Calbrite	36LK88	36LK89	—	—
Grounding Hub	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ58	36LJ59	—	36LJ60
Hub	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ49	36LJ50	—	36LJ51
Insulated Set Screw Connector	Steel	EMT Conduit	Raco	20VE23	20VE24	20VE25	20VE26
Locknut	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LL09	36LL10	—	36LL11
Set Screw Connector	Steel	EMT Conduit	Raco	20VE19	20VE20	20VE21	20VE22
Set Screw Coupling	Steel	EMT Conduit	Raco	20VE27	20VE28	20VE29	20VE30
Threaded Coupling	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ67	36LJ68	36LJ69	36LJ70

**** 1/2" EMT to 3/8" FMC.***

GRAINGER APPROVED **Superstrut**

Metal Framing



Solid Channel Pre-Galvanized Steel



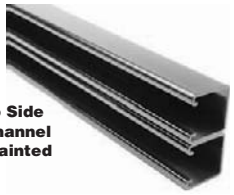
Slotted Channel Stainless Steel



Long Slotted Channel Zinc-Plated Steel



Back to Back Slotted Channel Green Painted



Side to Side Solid Channel Black Painted



Angle Plate



Post Base Squared



Channel Cover



Jr. Top Beam C-Clamp



Thread Rod Coupling



Universal Pipe Clamp



Clevis Hanger



Channel Cushioned Pipe Clamp

Strut Channel Size	L	Gauge	ZINC-PLATED STEEL Item No.	WHITE PAINTED STEEL Item No.	PRE-GALVANIZED STEEL Item No.	GREEN PAINTED STEEL Item No.	BLACK PAINTED STEEL Item No.	ALUMINUM Item No.	304 STAINLESS STEEL Item No.
Solid Channel									
1⅝ in x 1⅝ in	1 ft.	12	—	45YW01	45YV95	45YV90	45YW07	45YW19	45YW13
	1 ft. 6"	12	—	45YW02	45YV96	45YV91	45YW08	45YW20	45YW14
	2 ft.	12	—	45YW03	45YV97	45YV92	45YW09	45YW21	45YW15
	3 ft.	12	—	45YW04	45YV98	45YV93	45YW10	45YW22	45YW16
	4 ft.	12	—	45YW05	45YV99	45YV94	45YW11	45YW23	45YW17
	5 ft.	12	—	45YW06	—	—	45YW12	45YW24	45YW18
	10 ft.	12	2HAL5	—	5YB82	4A975	—	45YW25	2HAN3
1⅝ in x 1¾₁₆ in	1 ft.	14	—	45YW36	45YW31	45YW26	45YW42	45YW54	45YW48
	1 ft. 6"	14	—	45YW37	45YW32	45YW27	45YW43	45YW55	45YW49
	2 ft.	14	—	45YW38	45YW33	45YW28	45YW44	45YW56	45YW50
	3 ft.	14	—	45YW39	45YW34	45YW29	45YW45	45YW57	45YW51
	4 ft.	14	—	45YW40	45YW35	45YW30	45YW46	45YW58	45YW52
	5 ft.	14	—	45YW41	—	—	45YW47	45YW59	45YW53
	10 ft.	14	2HAN2	—	5YB83	5YB84	—	45YW60	2HAL6
Slotted Channel									
1⅝ in x 1⅝ in	1 ft.	12	—	45YV30	45YV25	45YV20	45YV36	45YV48	45YV42
	1 ft. 6"	12	—	45YV31	45YV26	45YV21	45YV37	45YV49	45YV43
	2 ft.	12	—	45YV32	45YV27	45YV22	45YV38	45YV50	45YV44
	3 ft.	12	—	45YV33	45YV28	45YV23	45YV39	45YV51	45YV45
	4 ft.	12	—	45YV34	45YV29	45YV24	45YV40	45YV52	45YV46
	5 ft.	12	—	45YV35	—	—	45YV41	45YV53	45YV47
	10 ft.	12	2HAL8	—	5YB79	4A974	—	45YV54	2HAL9
	20 ft.	12	3ULX2 *	—	3ULW9	—	—	—	—
1⅝ in x 1¾₁₆ in	1 ft.	14	—	45YV65	45YV60	45YV55	45YV71	45YV83	45YV77
	1 ft. 6"	14	—	45YV66	45YV61	45YV56	45YV72	45YV84	45YV78
	2 ft.	14	—	45YV67	45YV62	45YV57	45YV73	45YV85	45YV79
	3 ft.	14	—	45YV68	45YV63	45YV58	45YV74	45YV86	45YV80
	4 ft.	14	—	45YV69	45YV64	45YV59	45YV75	45YV87	45YV81
	5 ft.	14	—	45YV70	—	—	45YV76	45YV88	45YV82
	10 ft.	14	2HAN5	—	5YB80	5YB81	—	45YV89	2HAL3
	20 ft.	14	3ULX3 *	—	3ULX1 *	—	—	—	—
Long Slotted Channel									
1⅝ in x 1⅝ in	10 ft.	12	2HAN6	—	3ULW4	3ULW5	—	45YV18	3ULW8 *
1⅝ in x 1¾₁₆ in	10 ft.	14	2HAN9	—	3ULW6	3ULW7	—	45YV19	—
Back to Back Slotted Channel									
1⅝ in x 1⅝ in	1 ft.	14	—	45YX11	45YX04	45YW96	45YX18	—	45YX25
	1 ft. 6"	14	—	45YX12	45YX05	45YW97	45YX19	—	45YX26
	2 ft.	14	—	45YX13	45YX06	45YW98	45YX20	—	45YX27
	3 ft.	14	—	45YX14	45YX07	45YW99	45YX21	—	45YX28
	4 ft.	14	—	45YX15	45YX08	45YX01	45YX22	—	45YX29
	5 ft.	14	—	45YX16	45YX09	45YX02	45YX23	—	45YX30
	10 ft.	14	—	45YX17	45YX10	45YX03	45YX24	—	45YX31
1⅝ in x 3¼ in	1 ft.	12	—	45YW75	45YW68	45YW61	45YW82	—	45YW89
	1 ft. 6"	12	—	45YW76	45YW69	45YW62	45YW83	—	45YW90
	2 ft.	12	—	45YW77	45YW70	45YW63	45YW84	—	45YW91
	3 ft.	12	—	45YW78	45YW71	45YW64	45YW85	—	45YW92
	4 ft.	12	—	45YW79	45YW72	45YW65	45YW86	—	45YW93
	5 ft.	12	—	45YW80	45YW73	45YW66	45YW87	—	45YW94
	10 ft.	12	—	45YW81	45YW74	45YW67	45YW88	—	45YW95
Side to Side Solid Channel									
1⅝ in x 3¼ in	10 ft.	12	—	45YX35	45YX32	45YX33	45YX36	—	45YX34

Description	SILVER Item No.	GOLD Item No.	Description	SILVER Item No.	GOLD Item No.
Fittings and Brackets			Flat Plate, Corner, 3-Hole	2HAK4	2HAK1
Angle Plate, 90°, 2-Hole	5YE32	2HAE9	Flat Plate, Corner, 5-Hole, Webbed	5YE39	2HAJ5
Angle Plate, 90°, 3-Hole	2HAJ1	2HAF7	Post Base Angled	2HZD7	—
Angle Plate, 90°, 4-Hole	5YE33	2HAF2	Post Base Squared	2HZD8	—
Angle Bracket 90°, 3-Hole	5YE25	—	2-Hole 90° Angle Plate w/Tabs	—	2HAE3
U Style with Plate	—	2HCJ4	Angle Bracket, Long Adj. Slot	—	2HAE4
Z Style with Set Screw	—	2HCJ5	Angle Bracket, Short Adj. Slot	—	2HAE5
Notched Hold Down	—	2HCJ6	45° Angle Fitting	—	2HAE6
Strut Through Clamp, For 12-ga.	—	2HCJ7	135° Angle Fitting	—	2HAE7
Channel Z Bracket, For 12-ga.	5YB93	2HAU8	Wing Shape Fitting, 3 Tabs	—	2HAE8
Channel Z Bracket, For 14-ga.	5YE46	2HAU9	Wing Shape Fitting, Tab Left	—	2HAF1
Channel U Bracket, For 12-ga.	5YE15	2HAU6	Wing Shape Fitting, Tab Right	—	2HAF3
Channel U Bracket, For 14-ga.	5YE48	2HAU7	Wing Shape Fitting, 180° Tabs	—	2HAF5
Flat Plate, Straight, 2-Hole	2HAJ7	2HAJ4	Channel Joiner Fitting, 4-Hole	2HAL1	2HAK7
Flat Plate, Straight, 3-Hole	5YE34	2HAF4	Channel Joiner Strap	5YE17	—
Flat Plate, Straight, 4-Hole	5YE56	2HAJ8	Junction Box, 2-Angle Bracket	5YE24 *	—
Flat Plate Tee, 4-Hole	5YE23	2HAF6	Channel Cover	5YE42 *	2HAK2 *
Flat Plate Tee, 5-Hole, Webbed	5YE37	2HAJ2	End Cap for 1⅝" sq. Channel	2HAK9 †	—
Flat Plate Cross, 5-Hole	5YE35	2HAF8	End Cap for 1⅝" x 1¾₁₆" Channel	2HAL4 †	—

Description	¼" Item No.	¼" Pkg. Qty.	⅜" Item No.	⅜" Pkg. Qty.	½" Item No.	½" Pkg. Qty.
Hardware						
Spring Nuts, Silver, For 14-ga.	5YE44	25	5YE45	25	5YE43	25
Spring Nuts, Silver, For 12-ga.	5YE10	25	5YE11	25	4A985	25
Spring Nuts, SS, For 12-ga.	2HAL7	25	2HAN1	25	2HAN4	25
Springless Nuts, Silver	5YE28	25	5YE29	25	4A986	25
Channel Hex Nuts, Silver	5YE51	25	5YE52	25	5YE50	25
Channel Square Washer, Silver	5YE58	25	5YE59	25	5YE57	25
Channel Square Washer, Gold	2HAK5	25	2HAK8	25	2HAL2	25
Square Washer, Stainless Steel	—	—	2HAP1	25	2HAP4	25
Trapnut, Gold	4KFU8 *	1	4KFU9 *	1	4KFV1 *	1

Description	¼" Item No.	¼" Pkg. Qty.	⅜" Item No.	⅜" Pkg. Qty.	½" Item No.	½" Pkg. Qty.
Hex Head Cap Screw	—	—	2HAK3	50	4A987	25
Flat Round Washer	—	—	2HAK6	100	—	—
Saddle Washer for Threaded Rod	—	—	2HAF9 *	50	2HAF9 *	50
Threaded Rods, 10 Ft.	2HAP3 *	1	2HAP6 *	1	2HAP8 *	1
Threaded Rod, 12-Ft. Stainless Steel	—	—	2HAR3 *	1	2HAR5 *	1
Jr. Top Beam C-Clamp	—	—	2HCK1	1	2HCJ9	1
Top Beam C-Clamp	—	—	2HCK3	1	2HCK2	1
C-Clamp with Locknut	—	—	2HCJ8	1	—	—
Thread Rod Coupling	5YE54	25	5YE55	25	5YE53	25

Description	Pkg. Qty.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Strut Straps/Clamps, Small Diameter							
Universal Pipe Clamps, Silver	10	4A982	4A983	4A984	5YB98	5YB97	5YB99
Universal Pipe Clamps, Gold	10	2HAN8	2HAP2	2HAP5	2HAP7	2HAP9	2HAR2
Rigid Pipe Straps, Stainless Steel	10	2HCH7	2HCH8	2HCH9	2HCJ1	2HCJ2	2HCJ3
Angler Pipe Clamps, Gold	10	2HAR9 *	2HAU1 *	2HAU2 *	2HAU3 *	2HAU4 *	2HAU5 *
Cobra 1-Pc. Clamp, Gold	1	2HCF8	2HCF9	2HCG1	2HCG2	2HCG3	2HCG4
Strut Straps/Clamps, Large Diameter		2"	2½"	3"	3½"	4"	
Clevis Hanger	1	2HCK4	2HCK5	2HCK6	—	2HCK7	
Riser Clamp	1	2HCK8	—	2HCK9	—	2HCL1	
Channel Rigid Pipe Strap, Silver	10	—	5YB94	5YB95	2HCH6	5YB96	
Channel Rigid Pipe Clamp, Gold	10	—	2HAR4	2HAR6	2HAR7	2HAR8	
Cushioned Pipe Clamps		⅜"	½"	⅝"	1⅛"	1⅝"	2⅛"
O.D. Tubing Straps	1	2HCG6	2HCG9	2HCH1	2HCH2	2HCH4	2HCH5
Channel Cushioned Clamp	1	—	5YE21	5YE22	5YE18	5YE19	5YE20

** Superstrut brand. † Painted white.*

Conduit and Cable Clamps, Hangers, and Clips

B-Line series

Description	B-LINE BY EATON Mfr. Model	B-LINE BY EATON Item No.	NVENT CADDY Mfr. Model	NVENT CADDY Item No.
Strut Clamps, Attach Conduit or Cable to Standard Strut Channels; Unique 1-pc. Design Eliminates Handling of Hardware				
⅜" EMT, Saddle	B1506S	4RHF2	SCH6B	2KWU9
½" EMT, 200-lb. Rating	B1508	4RHF3	SCH8	2KWU5
½" EMT, 200-lb. Rating, Saddle	B1508S	4RHF4	SCH8B	2KWV1
¾" EMT, 200-lb. Rating	B1512	4RHF5	SCH12	2KWU6
¾" EMT, ½" Rigid, 200-lb. Rating, Saddle	B1512S	4RHF6	SCH12B	2KWV2
1" EMT, ¾" Rigid, 300-lb. Rating	B1516	4RHF7	SCH16	2KWU7
1" EMT, ¾" Rigid, 300-lb. Rating, Saddle	B1516S	4RHF8	SCH16B	2KWV3
1¼" EMT, 1" Rigid, 300-lb. Rating	B1520	4RHF9	SCH20	2KWU8
1¼" EMT, 1" Rigid, 300-lb. Rating, Saddle	B1520S	4RHG1	SCH20B	2KWV4
1½" EMT, 1¼" Rigid, 400-lb. Rating, Saddle	B1524S	4RHG2	SCH24B	2KWV5
2" EMT, 1½" Rigid, 400-lb. Rating, Saddle	B1532S	4RHG3	SCH32B	2KWV6
2½" EMT, 2½" Rigid, 400-lb. Rating, Saddle	B1540S	4RHG4	SCH48B	2KWV7
3" EMT, 3" Rigid, 400-lb. Rating, Saddle	B1548S	4RHG5	SCH56B	2KWV8
4" EMT, 4" Rigid, 400-lb. Rating, Saddle	B1564S	4RHG6	SCH72B	2KWV9
Conduit Hangers for EMT or Rigid Conduit, Include Captive Bolt and Built-In Nut; 400-lb. Rating				
½"	BL1400	4RHZ3	CD0B	2KWP4
¾"	BL1410	4RHZ4	CD1B	2KWP5
1"	BL1420	4RHZ5	CD2B	2KWP6
2"	BL1450	4RHZ6	CD5B	2KWP7
EMT and Rigid Snap-Close Conduit Clips, Load Rating: 100 lb. for Vertical; 25 lb. for Horizontal				
½" and ¾" Conduit with ¼" Hole	BG-8-12	4RHV2	812M	2KWP2
½" and ¾" Conduit with ¼" Thread Impression	BG-8-12-4T	4RHV3	—	—
EMT and Rigid Snap-Close Conduit Clips to Stud Fastener				
⅜" Conduit and MC/AC Cable	BG-6-B5	4RHU7	—	—
½" and ¾" Conduit	BG-8-12-B5	4RHV6	812MF	2KXB7
1" Conduit	BG-16-B5	4RHT4	16MF	2KXB5
EMT and Rigid Snap-Close Conduit Clips with Hammer-On Edge Clip Fastener				
⅜" Conduit/Cable, ⅛ to ¼" Beam Thickness	BG-6-E-2-4	4RHU8	—	—
½" and ¾" Conduit, ⅛ to ¼" Beam Thickness	BG-8-12-E-2-4	4RHV8	812M24SM	2KWP9
½" and ¾" Conduit, 5⁄16 to ½" Beam Thickness	BG-8-12-E-5-8	4RHV9	812M58SM	2KWR2
1" Conduit, ⅛ to ¼" Beam Thickness	BG-16-E-2-4	4RHT5	16M24SM	2KWR5
1¼" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-20-E-2-4	4RHT9	20M24SM	2KWR8
1¼" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	BG-20-U-2-4	4RHU1	20M24	2KWR7
1½" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-24-E-2-4	4RHU2	24M24SM	2KWT1
1½" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	BG-24-U-2-4	4RHU3	24M24	2KWR9
2" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-32-E-2-4	4RHU4	32M24SM	2KWT3
2" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	—	—	32M24	2KWT2
EMT and Rigid Snap-Close Conduit Clips with Hammer-On Universal Beam Fastener				
⅜" Conduit, 3⁄16" to ½" Beam Thickness	BG-6-U-5-8	4RHV1	6M58	2KWT6
⅜" Conduit, ⅛ to ¼" Beam Thickness	BG-6-U-2-4	4RHU9	6M24	2KWT4
½" and ¾" Conduit, ⅛ to ¼" Beam Thickness	BG-8-12-U-2-4	4RHW7	812M24	2KWP8
½" and ¾" Conduit, 5⁄16 to ½" Beam Thickness	BG-8-12-U-5-8	4RHW8	812M58	2KWR1
½" and ¾" Conduit, 9⁄16 to ¾" Beam Thickness	BG-8-12-U-9-12	4RHW9	812M912	2KWR3
1" Conduit, ⅛ to ¼" Beam Thickness	BG-16-U-2-4	4RHT7	—	—
1" Conduit, 5⁄16 to ½" Beam Thickness	BG-16-U-5-8	4RHT8	16M58	2KWR6
Bat Wing Conduit/Cable Hanger, Max Load: 50 lb. for Wire/Rod; 25 lb. for Vertical Flange; 100 lb. for Horizontal Flange				
Fits #12 Wire through ¼" ATR	BW2	4RJD3	4Z34	2KWU4
14/2 to 12/2 Cable Support	BW4	4RJD5	KX	2KWU2
½" EMT Support	BW-8	4RJD6	K8	2KWT7
¾" EMT and ½" Rigid Conduit Support	BW-12	4RJD1	K12	2KWT8
1" EMT and ¾" Rigid Conduit Support	BW-16	4RJD2	K16	2KWT9
1¼" EMT and 1" Rigid Conduit Support	BW-20	4RJD4	K20	2KWU1
Cable Flange Clip Supports				
0.42 to 0.70" dia. Cable, Up to 5⁄32" Flange	BX9	4RJE5	449	2KWX3
0.444 to 0.560" dia. Cable, 1⁄16 to 3⁄32" Flange	BXS-1214	4RJE8	SC2D	2KWX4
0.444 to 0.560" dia. Cable, 3⁄32 to 3⁄32" Flange	BXM-1214	4RJE6	SC4D	2KWX6
0.444 to 0.718" dia. Cable, 3⁄32 to 3⁄32" Flange	BXM-1519	4RJE7	SC4E	2KWX7
0.500 to 0.718" dia. Cable, 1⁄16 to 5⁄32" Flange	BXS-1519	4RJE9	SC2E	2KWX5
Cable Clips and Support Brackets				
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Cable Clip	BX4M	4RJD8	MAC2	2KWW1
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Cable Clip for T-Bar Ceilings	BX4M-A6	4RJD9	MAC2ATA	2KWW3
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Hammer On Cable Clip for Flanges ⅛" to ¼"	—	—	MAC224	2KWW2
Multiple Conduit Mounting Plate, Holds up to 3 Conduit Clips	—	—	SBT18	6PFP7
Flared Edges Prevent Damage to the Cable Jacket	—	—	CER4	6PFP3
Nonmetallic Cable Support Bracket, Secures Cable to Wood Studs	BRC1	4RJC1	CG4	2KXC2
Conduit and MC/AC Cable Support Bracket, For 1½" Deep Boxes, Attach Cable or ½ to ¾" EMT	BB38	4RHJ8	CS812	2KXB9
Conduit and MC/AC Cable Support Bracket, For 2⅛" Deep Boxes, Attach Cable or ½ to 1" EMT	BB38D	4RHJ9	CS812D	2KXC1
Nonmetallic Cable and FMC Support Bracket, Secures Up To ¾" FMC to Metal or Wood Studs	—	—	CJ6	2KXC3
Combination Outlet Box and Conduit Mounting Bracket; Mounts 4" Square Box and ½" to ¾" Conduit (Except No. 4RHT6 is 1")				
Combination Support Bar with Center Hole	BG812-S18	4RHW2	812MB18A	2KWW9
Combination Support Bar with ¼" Threaded Stud	BG812-S18S	4RHW3	812MB18S	2KWW6
Combination Support Bar with Bat Wing	BG812-S18-W6	4RHW6	812MB186	2KWW5
Combination Support Bar with Hammer On Beam Clamp for ⅛" to ¼" Flange	BG812-S18-U24	4RHW4	812MB1824	2KWW7
Combination Support Bar with Bat Wing	BG812-S18-W2	4RHW5	—	—
Combination Support Bar For 1" Conduit Using Plain Center Hole for Screw or Threaded Rod	BG16-S18	4RHT6	—	—
Outlet Box Mounting Brackets				
Telescoping Box Mounting Bracket, 11 to 18" Stud Spacing	BB2-16T	4RHJ5	TSGB16	2KXA9
Telescoping Box Mounting Bracket, 15½ to 26" Stud Spacing	BB2-24T	4RHJ6	—	—
Telescoping Box Mounting Bracket, 17 to 26" Stud Spacing	—	—	TSGB24	2KXB1
Single Side Box Mounting Bracket, 2½" and 3½" Stud Depth	BB4-23	4RHK2	—	—
Single Side Box Mounting Bracket, 2½", 3½", and 4" Stud Depth	BB4-4	4RHK3	—	—
Single Side Box Mounting Bracket, 2½", 3½", 5½", and 6" Stud Depth	BB4-6	4RHK4	—	—
Electrical Box, Supports 35 to 50 Pounds with a Single Brace	—	—	512HDFM35	6PFN9
Electrical Box, Supports 70 to 90 Pounds with a Double Brace	—	—	512HDFM70	6PFP0
Box Support, Prevents Box from Pushing Away From Drywall	—	—	766PM	6PFP1
Multiple Box Mounting Bracket, 16" Stud Spacing, Mounts up to 3 Outlet Boxes	BB8-16	4RHK6	RBS16	2KXA7
Multiple Box Mounting Bracket, 24" Stud Spacing, Mounts up to 4 Outlet Boxes	BB8-24	4RHK7	RBS24	2KXA8
Adjustable Far-Side Support Clip for Outlet Boxes, Suitable For 2½", 3½", and 4" Stud Depth	BB12	4RHJ2	—	—
Wiring Device Retainer, Adds Rigidity in Oversize Wall Openings	BB32	4RHJ7	RLC	2KXD1
T-Bar Ceiling Box Mounting Bracket for 4" or 4 11⁄16" Boxes, 1½" or 2⅛" Deep, 50-lb. Rating	BA50	4RHH5	512HD	2KXK7
T-Bar Ceiling Box Mounting Bracket, Adj. from 1½" to 8¾" Height, 25 lb. Rating	BA50A	4RHH6	512A	2KXK6
T-Bar Ceiling Preassembled Fan Mounting Kit, 70-lb. Rating	BA50F	4RHH7	—	—
Nail Protection Plate, Press On, Protects Electrical and Plumbing, For Metal or Wood Studs	—	—	304B2	2KXA3
Self Tapping Screw, Mounts Boxes or Brackets to Metal Studs, Low Profile Head, Pkg. of 100	—	—	SMS8	2KXA4
1 Gang, Mounting Plate for Class 2 Low Voltage Devices in ¼ to 1¼" Drywall	—	—	MPLS	2KXD5
Fixture Hanger, Side Mount, Supported from S-Hooks and Jack Chain, 50 lb. Limit	—	—	LFC	2KXK1
Fixture Hanger, Top Mount, Supported from S-Hooks and Jack Chain, 50 lb. Limit	—	—	LFC90	2KXK2
Electrical Box Hanger, Dual Height, Snaps Onto Ceiling T-Bar, Load Limit 20 Lbs., Pkg. of 10	—	—	512	2KXK5
Box Support, Ideal For Supporting and Positioning 4" Square or 4 11⁄16" Electrical Boxes	—	—	TSRBS1625	6PFR2
Bracket for 1 or 2 Gang Mud Rings, Mounts Plaster Rings for Low Volt App., 3.51" D	—	—	C23	52JH49
Bracket for 1 or 2 Gang Mud Rings, Mounts Plaster Rings for Low Volt App., 3.89" D	—	—	C4	52JH51


No. 4RHF3


No. 4RHZ4


No. 4RHV2


No. 4RHT4


No. 4RHT5


No. 4RHW7


No. 4RJD1


No. 4RJE6


No. 4RJC1


No. 4RHJ8


No. 4RHJ9


No. 2KXC3


No. 4RHW3


No. 4RHW4


No. 4RHW5


No. 4RHJ5


No. 4RHJ6


No. 4RHK2


No. 4RHK3


No. 4RHK6


No. 4RHK7


No. 4RHJ2


No. 4RHJ7


No. 4RHH5


No. 4RHH6


No. 4RHH7


No. 4RHY8


No. 4RHG7


No. 4RHH1


No. 4RHH2


No. 4RHG9


No. 4RHK8


No. 4RHK9


No. 4RHR1


No. 4RHL2


No. 4RHL8

B-Line series

CADDY

Conduit and Cable Clamps, Hangers, and Clips


No. 4RHN5


No. 4RHL7


No. 4RHN3


No. 4RHR5


No. 4RHH8


No. 4RHJ1


No. 4RHJ3


No. 4RHJ4


No. 4RJA3


No. 4RHZ7


No. 4RHW1

Description	B-LINE BY EATON Mfr. Model	B-LINE BY EATON Item No.	NVENT CADDY Mfr. Model	NVENT CADDY Item No.
KwikWire™—Adjustable Wire Rope System; Replaces Jack Chain or ATR for Support				
KwikWire™ Clamps For ⅛" or 3⁄16" Wire Rope	BKC200	**4RHY3**	—	—
KwikWire™ 1⁄16" Wire Rope, 500-ft. Spool, 75-lb. Rating When Used with BKC100 Clamps	BKW063	**4RHY8**	—	—
KwikWire™ 3⁄32" Wire Rope, 500-ft. Spool, 150-lb. Rating When Used with BKC100 or BKC150 Clamps	BKW094	**4RHY9**	—	—
KwikWire™ ⅛" Wire Rope, 500-ft. Spool, 250-lb. Rating When Used with BKC150 or BKC200 Clamps	BKW125	**4RHZ1**	—	—
KwikWire™ 3⁄16" Wire Rope, 250-ft. Spool, 640-lb. Rating When Used with BKC200 Clamps	BKW188	**4RHZ2**	—	—
KwikPak™ Dispenser Box - Includes 100 Clamps (No. 4RHY1) and 500-ft. Spool (No. 4RHY8), 75-lb. Rating	BKP10063	**4RHY5**	—	—
KwikPak™ Dispenser Box - Includes 100 Clamps (No. 4RHY2) and 500-ft. Spool (No. 4RHY9), 150-lb. Rating	BKP10094	**4RHY6**	—	—
KwikPak™ Dispenser Box - Includes 50 Clamps (No. 4RHY3) and 250-ft. Spool (No. 4RHZ1), 250-lb. Rating	BKP20125	**4RHY7**	—	—
KwikWire™ Wire Rope Cable Cutter	BKCC	**4RHY4**	—	—
Acoustical T-Bar Ceiling Fasteners				
T-Bar Support Clip, Allows for Independent Support of Fixtures, 65-lb. Rating, Fits 15⁄16" T-Bar, Stud Size ¼" x 5⁄8"	BA1	**4RHG7**	IDS	**2KXJ6**
T-Bar Support Clip, Allows for Independent Support of Fixtures, 65-lb. Rating, Fits 9⁄16" T-Bar, Stud Size ¼" x 5⁄8"	BA1-95	**4RHH1**	—	—
T-Bar Twist Fastener, Supports Electrical Boxes from 15⁄16" T-Bar with ¼" x 5⁄8" Stud, 50-lb. Rating, Black Finish	BA-4-16	**4RHH4**	4G16	**2KXJ9**
T-Bar Twist Fastener, Supports Electrical Boxes from 15⁄16" T-Bar with #8 x 5⁄8" Stud, 25-lb. Rating, White Finish	BA-2-16-W	**4RHH2**	4G8WH	**2KXJ8**
Drop Wire Clip for #12 to #8 Wire Prevents Sway of Dedicated Electrical Drop Wire	BA311	**4RHH3**	—	—
Conduit T-Bar Clip Attaches ½ and ¾" Conduit to T-Bar	BG-8-12-A6	**4RHV4**	—	—
Hurricane Clip Troffer Fastener Provides Positive Support for Troffers and Lay-In Light Fixtures	BA15	**4RHG9**	515	**2KXJ4**
Beam Clamps				
Hammer-On Beam Clamp, Provides ¼"-20 Thread to Hang Electrical Boxes, 75-lb. Rating, ⅛" to ¼" Flange	BU-2-4	**4RJC6**	M24	**2KWY7**
Hammer-On Beam Clamp, Provides ¼"-20 Thread to Hang Electrical Boxes, 5⁄16" to ½" Flange	BU-5-8	**4RJC8**	M58	**2KWY9**
Hammer-On Beam Clamp, Provides ¼" Stud to Hang Electrical Boxes, 100-lb. Rating, ⅛" to ¼" Flange	BU-2-4-S	**4RJC7**	M24S	**2KWY8**
Hammer-On Beam Clamp, Provides ¼" Stud to Hang Electrical Boxes, 5⁄16" to ½" Flange	BU-5-8-S	**4RJC9**	M58S	**2KWZ1**
Standard Beam Clamp, 100-lb. Rating, Up to ½" Flange	BC1	**4RHK8**	BC	**2KWY1**
Standard Beam Clamp, 100-lb. Rating, Up to ½" Flange with ½" and ¾" Conduit Clip	BG-8-12-C2	**4RHV7**	BC812M	**2KWY2**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., ⅛" to ⅛" Flange	BE-1-2	**4RHR6**	2H4	**2KWY3**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., ⅛" to ¼" Flange	BE-2-4	**4RHR7**	4H24	**2KWY4**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., 200-lb. Rating, 5⁄16" to ½" Flange	BE-5-8	**4RHR8**	4H58	**2KWY5**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., 200-lb. Rating, 5⁄16" to ¾" Flange	BE-9-12	**4RHR9**	4H912	**2KWY6**
Cast Iron, ⅛" to 5⁄16" Jaw Opening, For Use With ⅜" Threaded Rod, 250 lb. Load Rating	—	—	CRLB37EG	**6PFR4**
Wall Mount Cable Hooks, 30-lb. Rating				
¾" Cable Hook	BCH12	**4RHK9**	CAT12	**2KXD7**
1 5⁄16" Cable Hook	BCH21	**4RHN1**	—	—
2" Cable Hook	BCH32	**4RHN6**	—	—
4" Cable Hook	BCH64	**4RHR1**	—	—
Cable Hook/Beam Clamp Assemblies, 30-lb. Rating				
¾" Hook, Up to ½" Flange Thickness	BCH12-C2	**4RHL2**	CAT12BCB	**2KXE4**
1 5⁄16" Hook, Up to ½" Flange Thickness	BCH21-C2	**4RHN2**	—	—
2" Hook, Up to ½" Flange Thickness	BCH32-C2	**4RHN9**	—	—
4" Hook, Up to ½" Flange Thickness	BCH64-C2	**4RHR2**	—	—
Cable Hook To Wire/Rod Assemblies, 30-lb. Rating				
¾" Hook, #12 Wire to ¼" Rod	BCH12-W2	**4RHL8**	CAT124Z34	**2KXE9**
1 5⁄16" Hook, #12 Wire to ¼" Rod	BCH21-W2	**4RHN5**	—	—
2" Hook, #12 Wire to ¼" Rod	BCH32-W2	**4RHP8**	—	—
Cable Hook/Hammer-On Beam Clamp Assemblies, 30-lb. Rating				
¾" Hook, ⅛" to ¼" Flange Thickness	BCH12-U-2-4	**4RHL7**	CAT1224	**2KXE8**
1 5⁄16" Hook, ⅛" to ¼" Flange Thickness	BCH21-U-2-4	**4RHN4**	—	—
2" Hook, ⅛" to ¼" Flange Thickness	BCH32-U-2-4	**4RHP6**	—	—
4" Hook, ⅛" to ¼" Flange Thickness	BCH64-U-2-4	**4RHR4**	—	—
Cable Hook/Angle Bracket Assemblies, 30-lb. Rating				
¾" Hook to ¼" Threaded Rod	BCH12-RB	**4RHL6**	CAT12AB	**2KXF2**
1 5⁄16" Hook to ¼" Threaded Rod	BCH21-RB	**4RHN3**	—	—
2" Hook to ¼" Threaded Rod	BCH32-RB	**4RHP5**	—	—
4" Hook to ¼" Threaded Rod	BCH64-RB	**4RHR3**	—	—
Angle Bracket Hanger, 180-lb. Rating, Supports up to 3 Cable Hooks per Side	BCH-HBA	**4RHR5**	CATHBA	**2KXE2**
Cable and Conduit Brackets				
Cable Bracket, Fits 0.430 to 0.560" MC/AC Cable up to 4 Runs, 50-lb. Rating	BRC5-1	**4RJC4**	MCS50	**2KWX8**
Cable Bracket, Fits 0.430 to 0.560" MC/AC Cable up to 9 Runs, 50-lb. Rating	—	—	MCS100	**2KWX9**
Staple-Lok Cable Support, Fits up to ½" OD Cable	—	—	CJ6S	**2KXC4**
Cable Bracket, Fits 14/2 to 10/3 AWG Cable, Supports Horizontal Runs Of MC/AC/FMC Cable Through Metal Studs	—	—	459	**2KXC7**
Low Voltage Cover Plate Mounting Brackets—Replace Electrical Box In Class 2, Low Voltage Outlets				
Single-Gang Old Work Support Bracket	BB10	**4RHH8**	MP1	**2KXD4**
Single-Gang Old Work Support Bracket, Plastic Design	BB10P	**4RHJ1**	MP1P	**2KXD2**
Single-Gang New Work Support Bracket	BB15	**4RHJ3**	MP1S	**2KXB2**
2-Gang Old Work Support Bracket with Screws	BB20L	**4RHJ4**	MPLS2	**2KXD6**
Bridle Rings				
¾" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-12-T	**4RJA2**	2BRT12	**2KXH4**
1¼" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-20-T	**4RJA4**	2BRT20	**2KXH5**
1¼" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-20-4T	**4RJA3**	4BRT20	**2KXH6**
2" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-32-T	**4RJA8**	2BRT32	**2KXH8**
2" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-32-4T	**4RJA6**	4BRT32	**2KXH9**
4" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-64-4T	**4RJA9**	4BRT64	**2KXJ2**
1½" Bridle Ring, ¼" Lag Screw for Wood Beams, 50-lb. Rating	BR-24-4W	**4RJA5**	—	—
2" Bridle Ring, ¼" Lag Screw for Wood Beams, 50-lb. Rating	BR-32-4W	**4RJA7**	4BRT32WS	**2KXJ1**
Miscellaneous				
Flange Clip to Support Wire, Rod, S-Hooks, or Bolting Straps, 1⁄16" to ¼" Vertical Flange, 160-lb. Rating	BF3	**4RHT2**	VF14	**2KWZ2**
Flange Clip to Support Wire, Rod, S-Hooks, or Bolting Straps, 1⁄16" to ¼" Z-Purlin Flange, 160-lb. Rating	BF4	**4RHT3**	AF14	**2KWZ3**
Angle Bracket Attachment, Attaches #8 Wire or ¼" Plain Rod to Ceiling, 160-lb. Rating	BH1-H7	**4RHX4**	708AB	**2KWZ5**
Angle Bracket Attachment, Attaches ¼" ATR or Stud to Ceiling, 160-lb. Rating	BH4-H7	**4RHX6**	4TIB	**2KWZ4**
Rod Attachment with Hammer-On Beam Clamp, ⅛" to ¼" Flange, 160-lb. Rating, Attaches ¼" ATR or Stud	BH4-E-2-4	**4RHX5**	4TI24	**2KWX1**
Rod Attachment with Hammer-On Beam Clamp, ⅛" to ¼" Flange, 160-lb. Rating, Attaches ⅜" ATR or Stud	BH6-E-2-4	**4RHX7**	—	—
Metal Stud Grommet, Provides 360° Protection, Universal Design Fits All Factory Punched Metal Stud Holes	BM2	**4RHZ7**	ESG1	**2KXC6**
Conduit and Cable Antirattle Support for FMC, EMT or ENT Conduit Size up to 1" Dia.	—	—	781	**2KXC9**
Angle Bracket, 0.281 Dia. Holes, 25-lb. Rating	BH7	**4RHX8**	AB	**2KXL2**
Signal Reference Grid Wire Clamp, Attaches #8 to #4 AWG Stranded Wire to ¾ to 1" Round or Square Computer Floor Posts	BM5	**4RHZ9**	RGC	**2KXL3**
Cable to Drop Wire Hanger, Fits 0.375 to 0.706" MC/AC Cable, ⅜" FMC, or ½" EMT, 20-lb. Rating	—	—	PCS1	**2KWU3**
Conduit Angle Bracket, Supports Horizontal Runs of ½ or ¾" EMT/Rigid/ENT Conduit Through Metal Studs	BG-8-12-H7	**4RHW1**	—	—
S Hook, #11 Gauge, 29-lb. Rating; For Support of Lighting, Speakers and Other Fixtures	BH10	**4RHX1**	771	**2KXK4**
Jack Chain, #12 Single, 100-ft., 29-lb. Rating; For Support of Lighting, Speakers and Other Fixtures	BH9	**5GAR0**	—	—
Fixture Hanger, Side Mount, For Use With: Jack Chain, S-Hooks, and Fluorescent Fixtures; 29-lb. Rating	BH15	**4RHX2**	—	—
Fixture Hanger, Top Mount, For Use With: Jack Chain, S-Hooks, and Fluorescent Fixtures; 29-lb. Rating	BH16	**4RHX3**	—	—

Nom. Conduit/ Pipe	Item	For Use With	Material	Brand	Item No.	Pkg. Qty.
Beam Clamps						
¾ in	Right Angle Beam Clamp	Conduits	316 Stainless Steel	Calbrite	**36HW98**	1
1 ½ in	Right Angle Beam Clamp	—	Malleable Iron	GA	**3KG70**	50
Conduit and Cable Hangers						
½"	Conduit Clamp	Conduits, Pipes, Cables	Steel	Nvent Caddy	**2KWP4**	1
	One Hole Conduit Strap	Rigid/IMC	Malleable Iron	Raco	**206F14**	1
	Two Hole Conduit Strap	EMT	Steel	GA	**3LV29**	250
¾"	Conduit Clamp	Conduits, Pipes, Cables	Steel	Nvent Caddy	**2KWP5**	1
	Nail Strap	EMT	Steel	GA	**3LR59**	100
1"	Conduit Hanger	Rigid/IMC and EMT Conduits	Steel	Raco	**55YF21**	1
	Nail Strap	EMT	Steel	GA	**3LR60**	100
	Strap	Rigid/IMC Conduit	Malleable Iron	GA	**4YF51**	50
1¼"	One Hole Conduit Strap	Rigid/IMC	Steel	Raco	**206F27**	1
	One Hole Conduit Strap	Rigid/IMC	Malleable Iron	Raco	**206F17**	1
	Two Hole Conduit Strap	EMT	Steel	GA	**3LV32**	50
	Two Hole Conduit Strap	Rigid/IMC	Steel	Raco	**206G28**	1
1½"	Conduit Hanger	Conduits, Pipes, Cables	Steel	Thomas & Betts	**3KF51**	100
	One Hole Conduit Strap	Rigid/IMC	Malleable Iron	Raco	**206C37**	1
	Pipe Spacer	EMT and FMC	Malleable Iron	GA	**3LN99**	1
2"	One Hole Conduit Strap	Rigid/IMC Conduit	Steel	GA	**6XC47**	10
	Pipe Spacer	Rigid/IMC Conduit	Malleable Iron	GA	**3LP01**	1
	Strap	EMT	Malleable Iron	GA	**4YF54**	25
Pipe Hangers and Clamps						
½	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWC9**	1
¾	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWD1**	1
1	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWD2**	1
	Tube Strap	—	Copper	GA	**5P133**	5
1¼	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWD3**	1
	Pipe Strap	—	Pre-Galvanized Steel	Caddy	**1RUW8**	5
1½	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWD4**	1
2	One Hole Clamp	—	Pre-Galvanized Steel	GA	**1CWD5**	1


No. 3KG70


No. 206F14


No. 3LR59


No. 206F27

Calbrite Stainless Steel Conduit Systems

GA GRAINGER APPROVED

RACO A Division of Hubbell Incorporated (Delaware)

Thomas&Betts A Member of the ABB Group


No. 3LN99


No. 3KF31

Conduit Supports

Use to hang conduit or cables from walls and ceiling.

Hole Size	Jaw Opening	Load Rating	Material	Brand	Item No.	Pkg. Qty.
Beam Clamp						
¼"-20	15/16"	250 lb.	Malleable Iron	Superstrut	**20LA58**	50
5/16"-18	⅞"	500 lb.	Malleable Iron	Superstrut	**20LA59**	50
¼"-20	1 9/32"	150 lb.	316 Stainless Steel	Calbrite	**36HX91**	1
⅜"-16	31/32"	300 lb.	Malleable Iron	GA	**3KF31**	25
⅜"-16	1"	750 lb.	Malleable Iron	Superstrut	**20LA60**	25
⅜"-16	1½"	750 lb.	316 Stainless Steel	Calbrite	**36HX92**	1
½"-13	1 37/64"	1100 lb.	316 Stainless Steel	Calbrite	**36HX93**	1

Stainless Steel Conduit Support

Calbrite Stainless Steel Conduit Systems

Used to support conduit in corrosive or wash-down applications.

Item	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.	3½" Item No.
For Use with Stainless EMT, ENT										
Conduit Hanger	**36HX23**	**36HX24**	**36HX25**	**36HX26**	**36HX27**	**36HX28**	—	—	—	—
One Hole Conduit Strap	**36HX56**	**36HX57**	**36HX58**	**36HX59**	**36HX60**	**36HX61**	—	—	—	—
For Use with Stainless Rigid, Stainless Light Wall, Galvanized, and Aluminum Conduits										
One Hole Conduit Strap	**36HX46**	**36HX47**	**36HX48**	**36HX49**	**36HX50**	**36HX51**	**36HX52**	**36HX53**	**36HX55**	**36HX54**
Two Hole Conduit Strap	**36HX62**	**36HX63**	**36HX64**	**36HX65**	**36HX66**	**36HX67**	**36HX68**	**36HX69**	**36HX70**	—
For Use with Stainless Rigid and IMC, Aluminum, Galvanized and PVC Coated Conduits										
Conduit Clamp	**36HX29**	**36HX30**	**36HX31**	**36HX32**	**36HX33**	**36HX34**	**36HX35**	**36HX36**	**36HX37**	—
Conduit Hanger	**36HX14**	**36HX15**	**36HX16**	**36HX17**	**36HX18**	**36HX19**	**36HX20**	**36HX21**	**36HX22**	—


Conduit Hanger


Conduit Clamp


1-Hole Strap


2-Hole Strap

Conduit Hangers

Arlington

Conduit snaps into hanger and locks in place. For horizontal or vertical mounting. Nylon construction, corrosion resistant. Nonmetallic finish. Suitable for PVC conduit, rigid conduit, or thin-wall. UV rated for outdoor applications.

EMT Size (in.)	Rigid/Pipe Size (in.)	Mfr. Model	Item No.
½	—	NM2000	**6XXD1**
—	½	NM2005	**6XXD2**
¾	—	NM2010	**6XXD3**
—	¾	NM2015	**6XXD4**
1	—	NM2020	**6XXD5**
—	1	NM2025	**6XXD6**
1¼	—	NM2030	**6XXD7**
1½	1¼	NM2040	**6XXD8**
—	1½	NM2045	**6XXD9**
2	2	NM2050	**6XXE0**
3	3	NM2070	**6XXE1**
4	4	NM2090	**6XXE2**


No. 6XXD1


No. 6XXD9

Conduit Connectors

Arlington

Use for connecting MC cable to an electrical box. Zinc die-cast construction. Each connector includes 3 end-stop bushings. UL Listed, CSA Certified, and RoHS Compliant.

Conduit Size	Mfr. Model	Item No.
1"	8412	**6XXA5**
1¼"	8413	**6XXA6**
1½"	8414	**6XXA7**
2"	8415	**6XXA8**
2½"	8416	**6XXA9**
3"	8417	**6XXC0**


No. 6XXA5

Low-Voltage Mounting Brackets

Arlington

For mounting low voltage Class 2 communication outlets to the front of drywall. PVC construction. Mounting wings hold bracket securely against wall as the mounting screws are tightened. Bracket is its own mounting template, except for No. 6XXC5. Nos. 6XXC6 and 6XXC7 adjust to fit ¼"- to ⅝"-thick drywall, paneling, or wallboard. All models are UL Listed and CSA Certified.

No. of Gangs	Raised Height	W	L	D	Mfr. Model	Item No.
Rectangular						
1	¼" to 1"	2.50"	4.26"	1.20"	LV1LP	**6XXC6**
2	¼" to 1½"	4.185"	4.26"	1.20"	LV2LP	**6XXC7**
3	¼" to 1"	6.00"	5.57"	1.70"	LV3	**6XXC3**
4	¼" to 1"	7.81"	5.57"	1.70"	LV4	**6XXC4**
Round						
1	¼" to 1"	4.375"	4.375"	2.125"	LVR1	**6XXC5**


No. 6XXC7


No. 6XXC3

PVC Loop Hangers and Bushing

Arlington

For hanging Cat 5, Cat 6, Cat 7, or fiber-optic communication cables. PVC construction. Hangers are easy to use, hold cable bundles without damage, and rotate at any angle for various mounting applications. White color. Bushing fits existing irregular-shaped holes in metal studs, reducing the need to punch additional holes. All items are UL Listed and CSA Certified.

Max. Cable Capacity	Max. Load Capacity	Mfr. Model	Item No.	Pkg. Qty.
Loop Hanger				
2 in	25 lb	TL20	**6XXC8**	1
2 ½ in	25 lb	TL25	**6XXC9**	1
5 in	75 lb	TL50	**6XXD0**	1
Nonmetallic Bushing				
1"	—	SB130G	**6XXE3**	100


No. 6XXD0


No. 6XXE3



Schedule 40 Conduit
No. 4EUA5



Schedule 80 Conduit
No. 4EUC5



Conduit Body Tee—Type T
No. 4FYL5



Conduit Body 90°—Type LB
No. 4FYN5



Conduit Body Straight—Type C
No. 4FYP5



Conduit Body—Type E
No. 4FYR5

CANTEX

PVC Conduit and Fittings

Rust- and corrosion-resistant and easy to install. Belled end eliminates the need for special coupling. May be used in underground applications. Schedule 40 can be used in walls, floors, and ceilings under NEC Article 352. Schedule 80 is for above-ground and entrance applications. Schedule 40 and Schedule 80 conform to UL 651; Fed. and Mil. Spec. compliant.



Standard Coupling
No. 4FXY3



Expansion Coupling
No. 4FXZ3



Female Adapter
No. 4FYA3



Male Adapter
No. 4FYC3



Box Adapter
No. 4FYD3



Insulated Bushing
No. 4FYK8



Entrance Service Cap
No. 4FYU9



Reducing Bushing
No. 4FYJ9



Schedule 40 Elbow
No. 4FYE3



Schedule 80 Elbow
No. 4FYH9

Description	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.
Conduit									
10 ft., Schedule 40	4EUA5	4EUA6	4EUA7	4EUA8	4EUA9	4EUC1	4EUC2	4EUC3	4EUC4
10 ft., Schedule 80	4EUC5	4EUC6	4EUC7	4EUC8	4EUC9	4EUD1	4EUD2	4EUD3	4EUD4
Conduit Outlet Body									
Type LL	4WMF1	4WMF2	4WMF3	4WMF4	—	—	—	—	—
Type LR	4WMF5	4WMF6	4WMF7	4WMF8	—	—	—	—	—
Type T	4FYL5	4FYL6	4FYL7	4FYL8	4FYL9	4FYN1	4FYN2	4FYN3	4FYN4
Type LB	4FYN5	4FYN6	4FYN7	4FYN8	4FYN9	4FYP1	4FYP2	4FYP3	4FYP4
Type C	4FYP5	4FYP6	4FYP7	4FYP8	4FYP9	4FYR1	4FYR2	4FYR3	4FYR4
Type E	4FYR5	4FYR6	4FYR7	4FYR8	4FYR9	4FYT1	4FYT2	4FYT3	4FYT4
Conduit Straps									
2-Hole	4FYT5	4FYT6	4FYT7	4FYT8	4FYT9	4FYU1	4FYU2	4FYU3	—
Couplings and Adapters, For Use With Schedule 40 or 80 PVC Conduit									
Solvent Weld Coupling	4FXY3	4FXY4	4FXY5	4FXY6	4FXY7	4FXY8	4FXY9	4FXZ1	4FXZ2
Expansion Coupling, Two-piece	4FXZ3	4FXZ4	4FXZ5	4FXZ6	4FXZ7	4FXZ8	4FXZ9	4FYA1	4FYA2
Female Adapter	4FYA3	4FYA4	4FYA5	4FYA6	4FYA7	4FYA8	4FYA9	4FYC1	4FYC2
Male Adapter	4FYC3	4FYC4	4FYC5	4FYC6	4FYC7	4FYC8	4FYC9	4FYD1	4FYD2
Box Adapter	4FYD3	4FYD4	4FYD5	4FYD6	4FYD7	4FYD8	4FYD9	4FYE1	4FYE2
Insulating Bushing	4FYK8	4FYK9	4FYL1	4FYL2	4FYL3	4FYL4	—	—	—
Service Entrance Cap	—	—	—	—	4FYU9	4FYV1	4FYV2	4FYV3	—
Meter Offset	—	—	—	4FYV4	—	4FYV5	—	—	—
Elbow, For Use With Schedule 40 PVC Conduit									
Elbow 90 Degree, 24" Radius	—	—	—	—	—	4FYG3	4FYG4	4FYG5	—
Elbow 90 Degree, 36" Radius	—	—	—	—	—	4FYG6	4FYG7	4FYG8	—
Elbow 90 Degree	4FYE3	4FYE4	4FYE5	4FYE6	4FYE7	4FYE8	4FYE9	4FYF1	4FYF2
Elbow 45 Degree	4FYF3	4FYF4	4FYF5	4FYF6	4FYF7	4FYF8	4FYF9	4FYG1	4FYG2
Elbow, For Use With Schedule 80 PVC Conduit									
Elbow 90 Degree	4FYG9	4FYH1	4FYH2	4FYH3	4FYH4	4FYH5	4FYH6	4FYH7	4FYH8
Elbow 45 Degree	4FYH9	4FYJ1	4FYJ2	4FYJ3	4FYJ4	4FYJ5	4FYJ6	4FYJ7	4FYJ8
Pull Elbow									
Type LB	4FYV8	4FYV9	—	—	—	—	—	—	—

Description	¾"" x ½"	1"" x ¾"	1¼"" x 1"	1½"" x 1¼"	2"" x 1½"	2½"" x 2"	3"" x 2"	4"" x 3"
Reducer, For Use With Schedule 40 or 80 PVC Conduit								
Reducing Bushings — —	4FYJ9	4FYK1	4FYK2	4FYK3	4FYK4	4FYK5	4FYK6	4FYK7

Description	½"	¾"	1"
Weatherproof Electrical Box			
1-Gang, FSE	4FYW1	4FYW2	4FYW3
1-Gang, FSC	4FYW7	4FYW8	4FYW9
1-Gang, FSS	4FYX4	4FYX5	4FYX6
1-Gang, FSCC	4FYY1	4FYY2	4FYY3
2-Gang, FSE	4FYW4	4FYW5	4FYW6
2-Gang, FSC	4FYX1	4FYX2	4FYX3
2-Gang, FSS	4FYX7	4FYX8	4FYX9
2-Gang, FSCC	4FYY4	4FYY5	4FYY6
Weatherproof Junction Box			
4" Round Junction Box	—	4FYY7	—



FSE
No. 4FYW1



4" Round
No. 4FYY7



2-Gang
No. 4FZA8



Ceiling Box w/ Nails & Ground
No. 4FZC6



Bar Hanger
No. 4FZC9



4" Square Shallow Box w/Nails
No. 4FZC1

Description	Item No.	
Sheathed Cable Boxes		
1 Gang, w/Nails, 18 cu. in.	4FZA1	
1 Gang, w/Nails, 20 cu. in.	4FZA2	
1 Gang, w/Nails, 23 cu. in.	4FZA3	
1 Gang, Red Fire Alarm w/Nails, 20 cu. in.	4FZE3	*
2 Gang, w/Nails, 32 cu. in.	4FZA4	
3 Gang, w/Nails, 44 cu. in.	4FZA5	
4 Gang, w/Nails, 55 cu. in.	4FZA6	
2 Gang, w/Nails and Bracket, 48 cu. in.	4FZA8	
3 Gang, w/Nails and Bracket, 74 cu. in.	4FZA9	
Surface-Mounted Junction Boxes		
4L x 4W x 4H"	4FYU5	
6L x 6W x 4H"	4FYU6	
8L x 8W x 4H"	4FYU7	
12L x 12W x 6H"	4FYU8	

Description	Item No.	
Specialty Boxes		
Ceiling Box, w/Nails, 18 cu. in.	4FZC5	*
Ceiling Box w/Nails and Ground, 18 cu. in.	4FZC6	*
Ceiling Box, w/Nails, 20 cu. in.	4FZC7	*
Ceiling Box w/Nails and Ground, 20 cu. in.	4FZC8	*
Old Work, 18 cu. in.	4FZD5	*
Old Work w/Ground, 18 cu. in.	4FZD6	*
Bar Hanger, 20 cu. in.	4FZC9	*
Bar Hanger w/Ground, 20 cu. in.	4FZD1	*
3½ Round Fire Alarm (Red), 20 cu. in.	4FZE2	*
1 Gang w/Bracket, 20 cu. in.	4FZA7	
4 Sq. Shallow Box w/Nails, 18 cu. in.	4FZC1	
4 Sq. Shallow Box w/Nails, 32 cu. in.	4FZC2	
Flanged Shallow Box, Old Work, 8 cu. in.	4FZC3	
Bracketed Shallow Box, 8 cu. in.	4FZC4	
1 Gang Old Work, 14 cu. in.	4FZD2	
1 Gang Old Work, 21 cu. in.	4FZD3	
2 Gang Old Work, 25 cu. in.	4FZD4	
Floor Box Base, Round w/4 Hubs	4FYV6	

Description	Item No.
Standard Covers	
1 Gang, Blank	4FZD8
2 Gang, 1 Device Plaster Ring, ½" Raised	4FZD9
2 Gang, 2 Device Plaster Ring, ½" Raised	4FZE1
4½" Round, Blank	4FZD7
Floor Box Cover, Duplex, Bronze	4FYV7
Weatherproof Covers	
1 Gang, Blank	4FYY8
1 Gang, GFCI Receptacle	4FYZ4
1 Gang, Duplex Receptacle	4FYZ3
1 Gang, Switch	4FYZ5
1 Gang, Switch w/Lever	4WMF9
2 Gang, Blank	4FYY9
2 Gang, GFCI and Toggle	4FYZ1
2 Gang, Duplex and Toggle Switch	4FYZ2
2 Gang, Double Duplex Receptacle	4FYZ6
2 Gang, Switch w/Levers	4WMG1
Primer and Cement	
1 Pt. PVC Conduit Primer and Cleaner	4FYZ8
1 Pt. PVC Conduit Cement (Low VOC)	4FYZ7

**** Polycarbonate.***

GA GRAINGER APPROVED

Liquid-Tight Flexible Conduit


Series 160
No. 53CJ95


Series 6000
No. 4JC63

Built for a variety of applications ranging from computer room floors to high-temperature areas.

SERIES 160
Built with a circular cross section with a smooth, corrugated flame-resistant polyvinyl chloride (PVC) inner surface and integral reinforcing member within the conduit wall. Used to help protect insulated wire in assemblies or consoles of electrical apparatus.

SERIES 6000
Designed for use in wet, dry, or oily locations as a flame-resistant, nonmetallic raceway for power, control, and communications cables.

SERIES 6100
Designed for use in specific applications where Underwriters Laboratories (UL) or other agency approvals are not required, but flexibility is.

SERIES 6200
Designed for use in wet, dry, or oily locations as a flame-resistant, galvanized steel core raceway for power, control, and communications cables.

SERIES 6400
Offered in Data Comm blue and designed for use as a raceway for power, control, and communication cables.

SERIES 6500
Designed for use in wet, dry, or oily locations as a flame-resistant, nonmetallic raceway for power, control, and communications cables where repetitive motion and constant flexing is required. Ideal for applications where abrasion and physical abuse may occur.

SERIES 6750
Designed for use where limiting smoke and toxic materials of combustion are important considerations. They can also be used outdoors at -40°F and is sunlight-resistant.

SERIES 6800
Designed for use where operation at a high temperature is required. Feature Extreme Temperature jacket that is halogen-free.

SERIES 6900
UL Listed product is designed for use in raceway areas exposed to extreme temperatures.

SERIES SZ
Designed for use as a raceway for NSF® 169 Component Special Purpose Food Equipment and Devices, meat packing, restaurants, food processing, poultry packing, and pharmaceutical facilities.

Flexible Conduit Nominal Length	Flexible Conduit Color	⅜ in Item No.	½ in Item No.	¾ in Item No.	1 in Item No.	1 ½ in Item No.	1 ¼ in Item No.	2 in Item No.	2 ½ in Item No.	3 in Item No.	4 in Item No.
Series 160, Rigid PVC Core, 0° to 140°F, Flame Retardant PVC Jacket											
100 ft	Black	53CJ98	53CJ96	53CJ97	53CJ95	—	—	—	—	—	—
Series 6000, Rigid PVC Core, -2° to 176°F, Flame Retardant PVC Jacket											
50 ft	Gray	4JC62	4JC63	4JC64	4JC65	3FLH5	—	3FLH6	—	—	—
100 ft	Gray	1YPF7	1YPF8	1YPF9	1YPG1	—	3FLH4	—	—	—	—
Series 6100, Hot Dipped Galvanized Steel Core, -22° to 165°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FLC5	—	3FLC9	3FLD2	—	—	—	—	—	—
50 ft	Gray	4JC58	4JC59	4JC60	4JC61	3FLD4	—	3FLD5	—	—	—
100 ft	Gray	5YH68	5YH69	5YH70	5YH71	—	—	16R059	—	—	—
150 ft	Gray	—	—	—	—	16R058	—	—	—	—	—
400 ft	Gray	—	—	—	3FLD3	—	—	—	—	—	—
500 ft	Gray	3FLC6	3FLC8	3FLD1	—	—	—	—	—	—	—
Series 6100, Hot Dipped Galvanized Steel Core, -4° to 140°F, Flame Retardant PVC Jacket											
25 ft	Gray	—	3FLC7	—	—	—	—	—	—	—	—
Series 6200, Hot Dipped Galvanized Steel Core, -30° to 176°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FKT7	3FKT9	3FKV2	—	—	—	—	3FKV8	3FKV9	3FKW1
25 ft	Red	—	16R020	16R023	—	—	—	—	—	—	—
25 ft	Green	—	16R029	16R032	—	—	—	—	—	—	—
25 ft	Yellow	—	16R038	16R041	—	—	—	—	—	—	—
25 ft	Orange	—	16R047	16R050	—	—	—	—	—	—	—
50 ft	Red	—	16R021	16R024	—	—	—	—	—	—	—
50 ft	Green	—	16R030	16R033	—	—	—	—	—	—	—
50 ft	Yellow	—	16R039	16R042	—	—	—	—	—	—	—
50 ft	Orange	—	16R048	16R051	—	—	—	—	—	—	—
50 ft	Gray	1YPF5	2W279	2W280	—	3FKV6	—	3FKV7	—	—	—
100 ft	Red	—	16R022	16R025	—	—	—	—	—	—	—
100 ft	Green	—	16R031	16R034	—	—	—	—	—	—	—
100 ft	Yellow	—	16R040	16R043	—	—	—	—	—	—	—
100 ft	Orange	—	16R049	16R052	—	—	—	—	—	—	—
100 ft	Gray	1YPF6	5YH56	5YH57	—	—	—	16R057	—	—	—
150 ft	Gray	—	—	—	—	16R056	—	—	—	—	—
500 ft	Gray	3FKT8	3FKV1	3FKV3	—	—	—	—	—	—	—
Series 6400, Hot Dipped Galvanized Steel Core, -30° to 176°F, Flame Retardant PVC Jacket											
25 ft	Blue	3FKW2	3FKW6	3FKX1	3FKX5	—	—	—	3FKY2	3FKY3	3FKY4
50 ft	Blue	3FKW3	3FKW7	3FKX2	3FKX6	3FKX9	—	3FKY1	—	—	—
100 ft	Blue	3FKW4	3FKW8	3FKX3	3FKX7	—	—	—	—	—	—
400 ft	Blue	—	—	—	3FKX8	—	—	—	—	—	—
500 ft	Blue	3FKW5	3FKW9	3FKX4	—	—	—	—	—	—	—
Series 6500, Dual Layer of PVC with Nylon Braid Core, -2° to 176°F, Flame Retardant PVC Jacket											
50 ft	Orange	—	—	—	3FLL5	1YPG7	—	1YPG8	—	—	—
100 ft	Orange	—	3FLL3	3FLL4	1YPG5	—	1YPG6	—	—	—	—
Series 6750, Hot Dipped Galvanized Steel Core, -40° to 176°F, Flame Retardation, Low Smoke and Toxicity Generation Thermoplastic Polyurethane Jacket											
25 ft	Black	—	16P977	16P980	16P983	—	—	—	—	—	—
50 ft	Black	—	16P978	16P981	16P984	—	16P986	—	—	—	—
100 ft	Black	—	16P979	16P982	16P985	—	—	—	—	—	—
Series 6800, Hot Dipped Galvanized Steel Core, -76° to 302°F, Special Thermoplastic Elastomer Jacket											
25 ft	Black	16R005	16R008	16R011	16R014	—	—	—	—	—	—
50 ft	Black	16R006	16R009	16R012	16R015	16R018	16R017	16R019	—	—	—
100 ft	Black	16R007	16R010	16R013	16R016	—	—	—	—	—	—
Series 6900, Hot Dipped Galvanized Steel Core, -67° to 221°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FKY5	3FKY9	3FKZ4	3FND5	—	—	—	3FLA2	3FLA3	3FKZ8
50 ft	Gray	3FKY6	3FKZ1	3FND3	3FND6	3FKZ9	—	3FLA1	—	—	—
100 ft	Gray	3FKY7	3FKZ2	3FKZ5	3FKZ6	—	—	—	—	—	—
400 ft	Gray	—	—	—	3FKZ7	—	—	—	—	—	—
500 ft	Gray	3FKY8	3FKZ3	3FND4	—	—	—	—	—	—	—
Series SZ, Corrosion Resistant Plated Steel Core, -30° to 176°F, FDA Splash Zone Approved PVC Jacket											
50 ft	White	6XWU3	6XWU6	6XWU9	6XWX2	6XWX6	6XWX5	6XWX7	—	—	—
100 ft	White	6XWU4	6XWU7	6XWX0	6XWX3	—	—	—	—	—	—
400 ft	White	—	—	—	6XWX4	—	—	—	—	—	—
500 ft	White	6XWU5	6XWU8	6XWX1	—	—	—	—	—	—	—

KILLARK
Another Hubbell Electrical Products Brand
Appleton Group


Right Ang
No. 2LK


Parallel
No. 2LKW9


No. 6RUM5


No. 6RUK9

Pulling Elbows, Conduit Clamps and Outlet Boxes

Hazardous location items are Class I, Div. 1 and 2, Groups C (capped elbows only), and D. Class II, Div. 1 and 2, Groups E, F, G. Class III. UL Recognized.

Note: 3" and 3½" conduit clamps are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "killark conduit clamps". Other sizes are available on Grainger.com®.

Description	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Hubbell Killark						
Right Angle Conduit Clamp	2LKU9	2LKV1	2LKV2	2LKV3	2LKV4	2LKV5
Parallel Conduit Clamp	2LKW9	2LKX1	2LKX2	2LKX3	2LKX4	2LKX5
Appleton Electric						
Pulling Elbow, 90°	6RUK5	6RUK7	6RUH9	6RUJ1	6RUJ3	6RUJ5
Capped Elbow, 90°	6RUL3	6RUL5	6RUK9	6RUL1	—	—
Conduit Outlet Body w/Cover T	6RUM5	6RUM6	—	—	—	—
Conduit Outlet Body w/Cover C	6RUL7	6RUL8	—	—	—	—
Conduit Outlet Body w/Cover LB	6RUL9	6RUM0	—	—	—	—
Conduit Outlet Body w/Cover LL	6RUM1	—	—	—	—	—
Conduit Outlet Body w/Cover LR	6RUM3	6RUM4	—	—	—	—
Conduit Outlet Body w/Cover TB	6RUM7	6RUM8	—	—	—	—

Appleton Group


No. 10R078

KILLARK
Another Hubbell Electrical Products Brand


No. 2MY90

Hazardous Location Flexible Couplings

- Bronze with Brass Core

Class I, Div. 1 and 2, Groups A, B, C, D; Class II, Div. 1 and 2, Groups E, F, G. Class III.

Note: other sizes and lengths are available on Grainger.com®.

Flex Length	Brand	Mfr. Model	½" Item No.	¾" Item No.	1" Item No.
1 Removable Union, 1 Removable Male Nipple					
6 in	Appleton Electric	EXLK	10R088	10R102	10R114
12 in	Appleton Electric	EXLK	10R078	10R091	10R105
12 in	Hubbell Killark	ECFUF	2MY90	2MY93	—
18 in	Appleton Electric	EXLK	10R080	10R093	10R107
18 in	Hubbell Killark	ECFUF	2MY91	2MY94	—
24 in	Hubbell Killark	ECFUF	2MY92	2MY95	—
36 in	Appleton Electric	EXLK	10R086	10R099	10R113
2 Removable Male Nipples					
18 in	Appleton Electric	EXGJH	10P996	10R010	10R023


No. 6D074


No. 6D090


No. 6D097


No. 6D267

Flexible PVC Conduit and Fittings

HUBBELL® Wiring Device-Kellems

Fused PVC materials form a rugged and tough, but flexible, conduit with no metal core. Nonconductive, lightweight, nonmetallic materials provide corrosion resistance. Conduit cuts easily and cleanly and resists crushing and crimping. Suitable for all standard-duty applications. Liquid-tight for inside or outside use. UL Listed (PolyTuff® II is UL Recognized), CSA Certified, NEC Article 351-B.

Description	3/8" Item No.	1/2" Item No.	3/4" Item No.	1" Item No.	1 1/4" Item No.	1 1/2" Item No.	2" Item No.
Gray PolyTuff® I Conduit, Type B, Nonmetallic, Flexible							
Conduit, 100 ft. 3/8" to 1 1/4", 50 ft. 1 1/2" and 2"	6D074	6D075	6D076	6D077	2AXJ5	2AXJ6	2AXJ7
Straight Connectors	6D089	6D090	6D091	6D092	21VF90	21VF92	21VF94
90° Connectors	2DPG3	2DPG5	2DPG7	2DPG9	2DPH2	—	—
Swivellok™ Fittings, Straight to 90°	3JC15	6D097	6D098	6D099	—	—	—
Flexible Conduit Kits, Includes 6-Ft. Conduit and 2 Swivel Connectors	—	6D267	6D268	—	—	—	—
Black PolyTuff® II Conduit, Nonmetallic, Extra Flexible							
Conduit, 100 ft. 3/8" to 1 1/4", 50 ft. 1 1/2" and 2"	6D082	6D083	6D084	6D085	2AXJ2	2AXJ3	2AXJ4
Straight Connectors	6D101	6D102	6D103	6D104	21VF89	21VF91	21VF93
90° Connectors	2DPG2	2DPG4	2DPG6	2DPG8	2DPH1	—	—
Swivellok™ Fittings, Straight to 90°	3JC16	6D109	6D110	6D111	—	—	—


No. 4NPF2


No. 3LL04


No. 3LL22


No. 3LK74


No. 3LL25


No. 6C113


No. 52AU69

Liquid-Tight Conduit Fittings

Thomas&Betts A Member of the ABB Group

RACO® A Division of Hubbell Incorporated (Delaware)

HUBBELL® Wiring Device-Kellems

Connector Type	Material	Insulated	External Grounding Lug	Brand	3/8" Item No.	1/2" Item No.	3/4" Item No.	1" Item No.	1 1/4" Item No.	1 1/2" Item No.	2" Item No.	2 1/2" Item No.	3" Item No.	4" Item No.
Enhanced Rating Conduit Fitting														
45°	Malleable Iron/Steel	No	No	Raco	4A234	4A235	4A236	4A237	3LK80	3LK81	3LK82	—	—	—
45°	Malleable Iron/Steel	Yes	No	Raco	3LL14	3LL15	3LL16	3LL17	3LL18	3LL19	3LL20	—	—	—
45°	Thermoplastic	Yes	No	T&B	4NPF2	—	—	—	—	4NPF7	4NPF8	—	—	—
90°	Malleable Iron/Steel	No	No	Raco	6X921	6X773	6X774	6X775	3LK83	3LK84	3LK85	—	52AX36	—
90°	Malleable Iron/Steel	No	No	T&B	—	—	—	—	2DDR6	—	—	—	—	—
90°	Malleable Iron/Steel	Yes	No	Raco	3LL21	3LL22	3LL24	3LL26	3LL28	3LL29	3LL31	—	3LL34	3LL35
90°	Malleable Iron/Steel	Yes	Yes	Raco	52AX37	3LL23	3LL25	3LL27	52AX38	52AX39	—	—	—	—
90°	Thermoplastic	Yes	No	T&B	—	—	—	—	4NPG4	4NPG5	4NPG6	—	—	—
Straight	Malleable Iron/Steel	No	No	Raco	6X920	6X770	6X771	6X772	3LK74	3LK75	3LK76	3LK77	3LK78	52AX40
Straight	Malleable Iron/Steel	No	No	T&B	—	—	—	—	—	—	—	—	2DDP2	—
Straight	Malleable Iron/Steel	Yes	No	Raco	3LL04	3LL05	3LL06	3LL07	3LL08	3LL09	3LL10	52AX35	3LL12	3LL13
Straight	Malleable Iron/Steel	Yes	Yes	Raco	52AX30	4JC45	4JC46	52AX32	—	4JC47	4JC48	—	—	—
Straight	Steel	Yes	No	T&B	—	—	—	—	—	—	—	—	2FLE4	2FLE5
Straight	Steel	Yes	Yes	T&B	—	—	—	—	2DDV4	—	—	—	—	—
Straight	Thermoplastic	Yes	No	T&B	—	—	—	—	4NPE8	—	—	—	—	—
Liquid Tight Conduit Fitting														
Multi-Angle	Nylon	No	No	Raco	52AX99	52AW94	52AW99	52AX19	—	—	—	—	—	—
Straight	Nylon	No	No	Hubbell	—	49YK27	49YK28	—	—	—	—	—	—	—
Straight	Nylon	No	No	Raco	52AX05	52AW91	—	52AX08	—	52AY01	52AX16	—	—	—
Liquid Tight Conduit Fitting with Grip														
45°	Steel Fitting and Stainless Steel Mesh	Yes	No	Hubbell	—	6D209	6D210	—	—	—	—	—	—	—
90°	Steel Fitting and Stainless Steel Mesh	No	No	Hubbell	—	—	—	—	—	6D228	—	—	—	—
90°	Steel Fitting and Stainless Steel Mesh	Yes	No	Hubbell	6D202	6D203	6D204	6D205	6D206	—	—	—	—	—
Straight	Steel Fitting and Stainless Steel Mesh	Yes	No	Hubbell	6C113	6C114	6C115	6C116	6D196	6D197	6D198	6D199	—	—
Liquid Tight Sealing Ring														
—	Stainless Steel/Santoprene	—	—	T&B	2DDT2	—	—	—	—	—	—	—	—	—
—	Steel/Neoprene	—	—	Raco	—	52AU69	52AU88	52AV11	52AV46	52AV59	52AV58	—	—	—

VIDEO AVAILABLE ON GRAINGER.COM®


No. 4JWD1


No. 4JWD4

Snap2It® Liquid-Tight Connectors

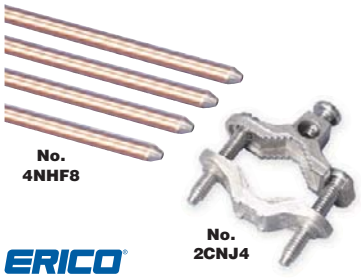
Arlington

- Zinc connectors for metallic and nonmetallic liquid-tight Type B conduit
- Nonmetallic UV-rated plastic connectors are for use with nonmetallic liquid-tight Type B conduit and flexible nonmetallic tubing

Fast, tool-less push-on installation. UL Listed, CSA Certified.

Description	1/2" Item No.	3/4" Item No.	1" Item No.
Zinc Die Cast			
Straight	4JWD1	4JWD2	4JWD3
90°	4JWD4	4JWD5	4JWD6
Nonmetallic			
0° to 90° Push On	—	4JWE2	—

Description	Dia.	Material	Conductor Size	Mfr. Model	Item No.
Pointed End Ground Rods					
8 ft., 10 mil Copper Coating, 30-yr. Service Life	½"	Copper Bonded Steel	—	611380	**4NHF8**
4 ft., 10 mil Copper Coating, 30-yr. Service Life	⅝"	Copper Bonded Steel	—	615840	**2KXL7**
8 ft., 10 mil Copper Coating, 30-yr. Service Life	⅝"	Copper Bonded Steel	—	615880	**2KXL8**
10 ft., 10 mil Copper Coating, 30-yr. Service Life	⅝"	Copper Bonded Steel	—	615800	**2KXL6**
10 ft., 10 mil Copper Coating, 30-yr. Service Life	¾"	Copper Bonded Steel	—	613400	**2KXL5**
8 ft., 15-yr. Service Life	⅝"	Galvanized Steel	—	815880	**2KXL9**
Ground Rod Kit, (2) ⅝" x 4 ft. Ground Rods, Ground Rod Connector, ⅝" Clamp, Drive Sleeve	⅝"	Copper Bonded Steel	—	CGE5CP	**2KXN1**
Grounding Accessories					
Grounding Connector, Suitable for Direct Burial Applications	½" a ⅝"	Bronze	8 Solid to 2 Stranded	CP58	**2KXN2**
Grounding Connector, Suitable for Direct Burial Applications	¾"	Bronze	8 Solid to 2 Stranded	CP34	**2KXN3**
Grounding Connector, For Copper Rod	⅝"	Copper	6 Solid	EHL58C1K	**2KXN4**
Grounding Connector, For Galvanized Rod	⅝"	Copper	6 Solid	EHL58G1K	**2KXN5**
Ground Rod Coupling, Threadless Compression	—	Silicone Bronze	—	CC58	**2KXN6**
Drive Sleeve, Slides on Top of Ground Rod to Prevent Mushrooming	—	Copper Coated Steel	—	EDS58	**2CNJ5**
Grounding Connector, Copper Screw for Use in Direct Burial Applications	—	Silicone Bronze	10 Solid to 2 Stranded	CWP1JU	**2CNJ2**
Grounding Connector	—	Zinc	10 Solid to 6 Solid	ZWP1J	**2CNJ4**
Grounding Connector, Copper Screw for Use in Direct Burial Applications	—	Silicone Bronze	10 Solid to 2 Stranded	CWP2JU	**2CNJ3**
Grounding Connector, Parallel Burial, Parallel Burial	½" to 1"	Bronze Alloy	8 Solid to 2 Stranded	EK16	**2CNJ6**
Grounding Connector, Perpendicular Burial, Perpendicular Burial	½" to 1"	Bronze Alloy	8 Solid to 2 Stranded	EK17	**2CNJ7**
Grounding Busbar, Mounts Adjacent to Meter Base or Service Entrance Equipment, Interconnects/Terminates Grounding Conductors From Telephone, CATV, Radio and Television Antennas.	—	ABS/Steel	—	IBTB	**6PFR3**



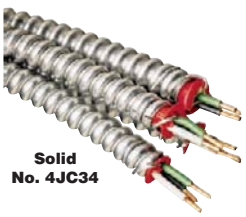
ERICO®

Ground Rods and Accessories

Pointed-end ground rod electrodes dissipate electric current directly into the earth. Meet NEMA GR-1 requirements. Nos. 2KXL5, 2KXL6, and 2KXL8 are UL Listed.

Wire Size	No. of Cond.	Spool Length	Jacket Material	Jacket Color	Wire Color	Brand	SOLID Item No.	STRANDED Item No.
MC Lite								
14 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, White	AFC	**4JC34**	—
14 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, Red, White	AFC	**4JC35**	—
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, White	AFC	**4JC30**	**4JC31**
12 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, Red, White	AFC	**4JC32**	**4JC33**
MC ap								
14 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, White	Southwire	**2VGF3**	—
14 AWG	2 with Bare AL Ground	1000 ft	Aluminum	Silver	Bare, Black, White	Southwire	**2VGF4**	—
14 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, Red, White	Southwire	**2VGF5**	—
12 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, White	Southwire	**2VGF6**	—
12 AWG	2 with Bare AL Ground	1000 ft	Aluminum	Silver	Bare, Black, White	Southwire	**2VGF7**	—
12 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, Red, White	Southwire	**2VGF8**	—
10 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, White	Southwire	**2VGF9**	—
10 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare, Black, Red, White	Southwire	**2VGG1**	—
HCF Lite								
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Green	Black, Green, White	AFC HCF	**1YTF9**	**1YTG1**
MC								
14 AWG	2 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black, Green, White	Southwire	**20KZ44**	—
14 AWG	3 with Insulated CU Ground	25 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ45**	—
14 AWG	3 with Insulated CU Ground	50 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ46**	—
14 AWG	3 with Insulated CU Ground	100 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ47**	—
14 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ48**	—
14 AWG	3 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ49**	—
14 AWG	4 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Blue, Green, Red, White	Southwire	**20KZ50**	—
12 AWG	2 with Insulated CU Ground	25 ft	Aluminum	Silver	Black, Green, White	Southwire	**20KZ51**	—
12 AWG	2 with Insulated CU Ground	50 ft	Aluminum	Silver	Black, Green, White	Southwire	**20KZ52**	—
12 AWG	2 with Insulated CU Ground	100 ft	Aluminum	Silver	Black, Green, White	Southwire	**20KZ53**	**20KZ57**
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, White	Southwire	**20KZ54**	**20KZ58**
12 AWG	3 with Insulated CU Ground	100 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	—	**20KZ59**
12 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ55**	**20KZ60**
12 AWG	3 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black, Green, Red, White	Southwire	**20KZ56**	**20KZ61**
MC FPLP Fire Alarm								
14 AWG	2 with Insulated CU Ground	250 ft	Galvanized Steel	Red	Black, Green, White	AFC Fire Alarm	**1YTG2**	—
MC HCF								
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Green	Black, Green, White	Southwire	**20KZ62**	**20KZ64**
Antishort Bushing, Pkg. of 35						AFC	—	**3CTT2**

AFC CABLE SYSTEMS®
A PART OF Atkore INTERNATIONAL
Southwire®



Armored Type MC Cable

Cables are rated for 600V and rated 194°F dry. UL Listed, NEC compliant.

MC-LITE®

Designed with lightweight aluminum armor. UL Classified 1-, 2-, and 3-hr. through penetration

MC^{AP}®

Constructed for superior grounding performance compared to regular MC and AC cables. Features integral grounding/bonding conductor.

MC

Fire Alarm®—For fire alarm systems from panels to devices. Features aluminum-bond ground, red armor, and dual-rated MC/FPLP. UL Listed for plenum use. NFPA compliant. UL Classified 1-, 2-, and 3-hr. through penetration

HCF—Designed for hospital and healthcare use. Armor and aluminum bond provides ground NEC 250.118 (8)

Armored Type MC Cable Whips

- MC Lite
- 6-ft. length
- 6" leads
- 600V

Interlocked steel armor with factory installed conductors.

Wire Size	No. of Cond.	Stranded/ Solid	Wire Type	Wire Color	Max. Amps	Item No.
With Lock Nut Fittings						
12 AWG	3 with Insulated CU Ground	Stranded	MC, THHN	Black, Green, Red, White	20	**25K880**
14 AWG	2	Stranded	MC, THHN	Black, White	15	**25K878**
14 AWG	3 with Insulated CU Ground	Solid	MC, THHN	Black, Green, White	15	**25K873**
14 AWG	4 with Insulated CU Ground	Solid	MC, THHN	Black, Green, Red, White	15	**25K874**
18 AWG	3 with Insulated CU Ground	Solid	MC, TFFN, TFN	Black, Green, Red, White	7	**25K870**
With Snap In Fittings						
14 AWG	3 with Insulated CU Ground	Solid	MC, THHN	Black, Green, Red, White	15	**25K876**
14 AWG	3 with Insulated CU Ground	Stranded	MC, THHN	Black, Green, Red, White	15	**25K881**
18 AWG	3 with Insulated CU Ground	Solid	MC, TFFN, TFN	Black, Green, Red, White	7	**25K875**

Southwire®



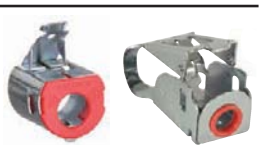
Armored Cable Connectors

Redi-Loc and Snap-In—Low-profile connectors have lances designed to securely grip armored cable. Body and internal clamp offer increased resistance to pullout, greatly improving ground continuity. 221°F-rated insulator. UL Listed, CSA Certified.

Tite-Bite®—Steel connectors with tough insulated lining withstand vibration and strain. Narrow profile installs easily, even in adjacent knockouts. Double-grip saddle for salvageability. UL Listed for armored cable only. RoHS Compliant.

Hubbell Incorporated
RACO®
A Division of Hubbell Incorporated (Delaware)
Thomas&Betts®
A Member of the ABB Group

Description	Knockout Size	Conduit Size	Brand	Item No.
Redi-Loc				
Single Cable, MCI Cable: 0.434 to 0.530" Alum. or 0.430 to 0.530" Steel, Armored Cable (AC): 14/2 (0.430) to 12/3 Alum. and Steel	½"	½"	Raco	**3LV72**
Single Cable, MCI Cable: 0.475 to 0.575" Alum. and Steel, Armored Cable (AC): 14/2 (0.475) to 12/4 Alum. and Steel	½"	½"	Raco	**1RVU7**
Single Cable, MCI Cable: 0.590 to 0.680" Alum. or ¾" 0.565 to 0.659" Steel, Armored Cable (AC): 10/3 (0.590") to 8/3 Alum. and Steel	½"	¾"	Raco	**3LV75**
Duplex Cable	½"	½"	Raco	**3LV73**
Redi-Loc II, MCI, AC and HCF Cable, 0.520" Max. Cable Opening	½"	½"	Raco	**19L557**
Redi-Loc II, MCI, AC and HCF Cable, 0.600" Max. Cable Opening	½"	½"	Raco	**19L558**
Snap-In				
For MCI, A/C, and HCF Cables	½"	½"	Raco	**1RVU8**
Tite-Bite®, For 0.470 to 0.660" Armored Cable and Flexible Metal Conduit				
Straight, Noninsulated	½"	⅜"	T&B	**2RER9**
90°, Noninsulated	½"	⅜"	T&B	**2RET3**
90°, Nylon Insulated	½"	⅜"	T&B	**2RET2**
Straight, Nylon Insulated	½"	⅜"	T&B	**2RET1**







No. 4JWF1



No. 4JWG2

Arlington

Snap2It® and Snap-Tite® Connectors

UL Listed, CSA Certified, RoHS Compliant.

SNAP2IT® WITH INSULATED THROAT

- For steel and aluminum jacketed cables
- Tinted to differentiate sizes

Toolless installation: Snap on for a tight, secure hold.

SNAP-TITE® SADDLEGRIP

- For steel and aluminum flex, AC, HCF, and MCI cable
- Also for MCI-A cable where noted

Connectors snap into box, then are screwed tight for super-sturdy hold.

Conduit Size	Description	Cable Opening Min.	Cable Opening Max.	Item No.	
Snap2It® Connectors with Insulated Throat					
⅜"	Straight Connector	0.405 in	0.612 in	**4JWF5**	
⅜"	Straight Connector	0.485 in	0.612 in	**4JWF6**	*
⅜"	Straight AP Connector	0.370 in	0.490 in	**4JWF1**	
⅜"	Straight AP Connector	0.405 in	0.612 in	**4JWF3**	*†
⅜"	Duplex Straight Connector	0.405 in	0.612 in	**4JWE6**	
⅜"	Duplex Straight Connector	0.485 in	0.612 in	**4JWF7**	*
⅜"	Duplex Straight AP Connector	0.370 in	0.490 in	**4JWF2**	†
⅜"	Duplex Straight AP Connector	0.405 in	0.612 in	**4JWF4**	*†
⅜"	90° Connector	0.440 in	0.750 in	**4JWE9**	
½"	Straight AP Connector	0.590 in	0.920 in	**4JWG1**	†
½"	90° Connector	0.648 in	1.081 in	**4JWF9**	†
¾"	Straight AP Connector	0.895 in	1.110 in	**6XXA4**	†
Snap-Tite® Saddlegrip Connectors					
⅜"	Duplex Connector, w/Insulated Throat	0.445 in	0.612 in	**4JWG4**	
⅜"	Duplex Connector	0.445 in	0.612 in	**4JWG3**	
⅜"	Connector, w/Insulated Throat	0.405 in	0.612 in	**4JWG2**	†
½"	Connector, w/Insulated Throat	0.710 in	0.910 in	**4JWG6**	
½"	Connector	0.710 in	0.910 in	**4JWG5**	
¾"	Connector, w/Insulated Throat	0.840 in	1.110 in	**4JWG8**	
¾"	Connector	0.840 in	1.110 in	**4JWG7**	

**** Includes red tinted clips. † Also for MCI-A cable.***



No. 52AX66

RACO
A Division of Hubbell Incorporated (Delaware)

2-Screw Connectors

Die-cast zinc plating connectors are used to connect NM sheathed and oval type SE or USE cable to box or enclosure. UL Listed for use with NM-B cable.

Box Connection	Use With - Nonmetallic Building Cable	Item No.
Nonmetallic Sheath Cable Connectors		
½ in MNPT	Oval Cable: (1) 14/2, (1) 12/2, (1) 10/2, (1) 14/3, (1) 12/3 with Ground; (1) 14/2, (1) 12/2, (1) 10/2, (1) 14/3, (1) 12/3 without Ground	**52AX66**
¾ in MNPT	Round Cable: (1) 6/2, (1) 10/3, (1) 6/3	**52AX70**
1 in MNPT	Round Cable: (1) 6/3, (1) 4/3	**52AX71**
1 ¼ in MNPT	Oval Cable: (1) 14/2, (1) 12/2, (1) 10/2, (1) 14/3, (1) 12/3 with Ground; (1) 14/2, (1) 12/2, (1) 10/2, (1) 14/3, (1) 12/3 without Ground	**52AX67**
1 ½ in MNPT	Oval Cable: (1) 6/3, (1) ⅔	**52AX68**
2 in MNPT	Oval Cable: (1) 000/3, (1) 0000/3	**52AX69**



No. 4JWR3

Arlington

Anti-Short Bushings

- For armored cable and MC and flexible metal conduit

Protects against abrasion while pulling cable. UL Listed, CSA Certified.

Conduit Size	Cable Opening Max.	Item No.	Pkg. Qty.
5/16"	0.680 in	**4JWR3**	100
⅜"	0.758 in	**4JWR4**	100
7/16"	0.920 in	**4JWR5**	50
½"	1.130 in	**4JWR6**	50
¾"	1.340 in	**4JWR7**	50
1"	1.460 in	**4JWR8**	25



No. 3FLE9

GRAINGER APPROVED

Calbrite
Stainless Steel Conduit Systems

Flexible Metal Conduit

Easy to cut, no bending required—replaces EMT conduit in difficult or impractical locations. For dry locations only except PVC coated rated NEMA 4X.

L	Flexible Conduit Type	Brand	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Steel									
25 ft.	Extra Flex	GA	**53CK01**	—	—	—	—	—	—
50 ft.	Extra Flex	GA	**53CK02**	—	—	**53CJ99**	—	—	—
100 ft.	Extra Flex	GA	**53CK03**	—	—	—	—	—	—
Premium Aluminum Alloy									
25 ft.	Reduced Wall	GA	**3FLE9**	**3FLF2**	**3FLF4**	—	—	**3FLF7**	**3FLF8**
50 ft.	Reduced Wall	GA	**4JC54**	**4JC55**	**4JC56**	**4JC57**	**3FLF6**	—	—
100 ft.	Reduced Wall	GA	**5YH62**	**5YH63**	**5YH64**	—	—	—	—
500 ft.	Reduced Wall	GA	**3FLF1**	**3FLF3**	**3FLF5**	—	—	—	—
High Quality Hot Dipped Zinc Galvanized Low Carbon Steel									
25 ft.	Reduced Wall	GA	**3FLE1**	**3FLE2**	**3FLE4**	—	—	**3FLE7**	**3FLE8**
50 ft.	Reduced Wall	GA	**6A419**	**6A420**	**4JC52**	**4JC53**	**3FLE6**	—	—
100 ft.	Reduced Wall	GA	**5YH59**	**5YH60**	**5YH61**	—	—	—	—
500 ft.	Reduced Wall	GA	**3FND7**	**3FLE3**	**3FLE5**	—	—	—	—
316 Stainless Steel									
25 ft.	Bare	Calbrite	—	**40KG10**	**40KF98**	**40KG06**	**40KG04**	**40KG01**	**40KG09**
25 ft.	PVC Clear Coat	Calbrite	—	**40KF99**	**40KG03**	**40KG12**	—	**40KG11**	**40KG02**
25 ft.	PVC Coated	Calbrite	—	**40KG07**	**40KG08**	**40KF97**	**40KG13**	**40KG14**	**40KG05**



No. 4JC42



No. 36LK28

RACO
A Division of Hubbell Incorporated (Delaware)

GRAINGER APPROVED

Calbrite
Stainless Steel Conduit Systems

Flexible Metal Conduit Connectors

Connector	Insulated	Brand	Conduit Size ⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Malleable Iron									
Straight	No	Raco	**2DDE4**	**3LK38**	**3LK39**	**3LK40**	—	—	—
Straight	Yes	Raco	**4JC41**	**4JC42**	**4JC43**	**4JC44**	—	—	—
Die Cast Zinc									
90°	Yes	GA	—	—	—	—	—	**5UGX2**	**5UGX3**
Straight	No	GA	—	—	**3LV68**	—	**5UGV8**	—	—
Straight	Yes	GA	—	—	—	—	**5UGW1**	—	—
316 Stainless Steel									
45°	Yes	Calbrite	—	**36LK40**	**36LK41**	—	—	—	—
90°	Yes	Calbrite	—	**36LK28**	**36LK29**	**36LK30**	**36LK31**	**36LK32**	**36LK33**
Straight	Yes	Calbrite	—	**36LK34**	**36LK35**	**36LK36**	**36LK37**	**36LK38**	**36LK39**


No. 5D884


No. 5D899


No. 5D724


No. 5D798


No. 5D924


No. 5D971

HUBBELL® Wiring Device-Kellems

Liquid-Tight Cord Connectors

- Nylon: for washdown areas
- Aluminum: where lighter weight or better corrosion resistance is desired
- Zinc-plated steel: where higher impact resistance and tensile strength are desired

Proprietary split-hinge Gotcha® ring, color-coded by cord size, grips conductor through cord jacket. Factory-lubricated bushing provides even compression, ensures liquid-tight seal around cord, and minimizes tension on terminals. UL Listed, CSA Certified.

NYLON

Tough, durable, and highly resistant to corrosion.

MACHINED METAL

More durable and reliable than cast metal parts.

Note: Order locknuts on page 315.

Conduit Size	Cord Dia. Range	NYLON Straight Item No.	NYLON 90° Item No.	ALUMINUM Straight Item No.	ALUMINUM 90° Item No.	ZINC-PLATED STEEL Straight Item No.	ZINC-PLATED STEEL 90° Item No.
⅜"	0.19" to 0.25"	5D876	—	5D712	—	—	—
	0.25" to 0.31"	5D877	—	5D713	2XYJ4	2XYL8	—
	0.25" to 0.38"	2XYL9	—	5D714	—	—	—
	0.38" to 0.44"	2XYN1	—	5D715	2XYJ6	5D919	—
	0.31" to 0.38"	—	—	—	2XYJ5	—	—
½"	0.13" to 0.19"	5D881	2XYJ8	5D721	2XYJ7	2XYN3	—
	0.19" to 0.25"	5D882	2XYJ9	5D716 *	5D798	5D922	2XYK1
	0.25" to 0.38"	5D883	5D899	5D723	5D799	5D923	5D971
	0.38" to 0.50"	5D884	5D900	5D724	5D800	5D924	5D972
	0.50" to 0.63"	5D885	5D901	5D725	5D801	5D925	5D973
	0.06" to 0.13"	2XYN2	—	5D720	—	—	—
	0.63" to 0.75"	—	—	5D726	—	2XYN4	—
	0.75" to 0.88"	—	—	5D727	—	2XYN5	—
	0.25" to 0.31"	—	—	5D717	—	—	—
	0.31" to 0.38"	—	—	5D718	—	—	—
	0.38" to 0.44"	—	—	5D719	—	—	—
	0.19" to 0.25"	—	—	5D722	—	—	—
¾"	0.38" to 0.50"	5D886	2XYK3	5D732	2XYK2	5D932	2XYK4
	0.50" to 0.63"	5D887	5D903	5D733	2XYK5	5D933	2XYK6
	0.63" to 0.75"	5D888	5D904	5D735	5D804	5D934	2XYK7
	0.75" to 0.88"	5D889	2XYK8	5D736	5D805	5D935	5D977
	0.25" to 0.38"	—	—	5D731	—	5D931	—
1"	0.63" to 0.75"	5D892	—	5D739	2XYK9	5D966	5D978
	0.75" to 0.88"	5D893	5D909	5D740	2XYL2	5D967	—
	0.88" to 1.00"	5D894	5D910	5D741	2XYL3	5D936	—
	0.50" to 0.63"	2XYN6	—	5D738	5D807	2XYP2	—
	1.00" to 1.13"	2XYN7	—	5D742	2XYL4	—	—
1¼"	1.00" to 1.13"	—	—	5D749	2XYL5	5GTF8	—
	1.13" to 1.25"	—	—	5D750	2XYL6	—	—
	1.25" to 1.38"	—	—	2XYN8	2XYL7	—	—
1½"	1.00" to 1.13"	—	—	2XYN9	5D817	5GTG0	—
	1.25" to 1.38"	—	—	2XYP1	5D819	5GTG2	—
	1.13" to 1.25"	—	—	5D755	—	5GTG1	—
2"	1.38" to 1.50"	—	—	—	5D821	—	—

** Compact 1.45" vs. 1.65" length.*

HUBBELL® Wiring Device-Kellems

Liquid-Tight Cord Mesh Grips

Deluxe stainless steel cord/cable grips completely eliminate pull tension on terminals, indoors or outdoors, sealing out moisture and cutting oils. Grips control cable arc-of-bend and prevent cord pullout. Corrosion resistant with aluminum fitting that connects to box or hub, effectively sealing out contaminants. Useful in wiring enclosures, pendant stations, construction sites, processing and material handling equipment, pumps, motors, and machine tools.



Trade Size	Cable Dia. Range	STRAIGHT Item No.	90° Item No.
⅜"	0.25" to 0.31"	6D124	2TGJ4
	0.31" to 0.38"	6D125	—
	0.38" to 0.44"	—	2TGJ6
½"	0.19" to 0.25"	6D126	6D170
	0.25" to 0.38"	6D127	6D171
	0.38" to 0.50"	6C101	6D172
	0.50" to 0.63"	6C102	6D173
	0.63" to 0.75"	6D128	—
¾"	0.25" to 0.38"	6D131	—
	0.38" to 0.50"	6D132	6D174
	0.50" to 0.63"	6C103	6D175
	0.63" to 0.75"	6C104	6D176
	0.75" to 0.88"	6D133	6D177

Trade Size	Cable Dia. Range	STRAIGHT Item No.	90° Item No.
1"	0.50" to 0.63"	5C801	—
	0.63" to 0.75"	5C802	—
	0.75" to 0.88"	6C105	6D179
	0.87" to 1.00"	6C106	2VRV9
	1.00" to 1.13"	6D135	2TGK3
1¼"	0.87" to 1.00"	6D136	—
	1.00" to 1.13"	6D137	2TGK2
	1.13" to 1.25"	6D138	2TGJ7
	1.25" to 1.38"	6D139	—
1½"	1.00" to 1.13"	6D142	2TGJ8
	1.13" to 1.25"	6D143	2TGJ9
	1.25" to 1.38"	6D144	—
2"	1.44" to 1.56"	6D152	2TGK4
	1.56" to 1.69"	6D153	—


No. 2A246

RACO® A Division of Hubbell Incorporated (Delaware)

Thomas&Betts® A Member of the ABB Group


No. 2DDK4

Liquid-Tight Cord Grip Connectors

Connectors can be tightened with pliers or screwdrivers when working in tight areas. Type 304 stainless steel connectors withstand harsh environments, including heat and UV.

Conduit Size	Cord Dia. Range	Brand	Item No.
Straight			
Aluminum			
½"	0.06" to 0.13"	Raco	52AY03
	0.25" to 0.31"	Raco	52AY07
	0.31" to 0.38"	Raco	52AY15
	0.50" to 0.63"	Raco	52AY10
¾"	0.19" to 0.25"	Raco	52AX42
	0.50" to 0.63"	Raco	52AY09
1"	0.38" to 0.50"	Raco	52AX52
	0.50" to 0.63"	Raco	52AX45
	0.63" to 0.75"	Raco	52AX46
	0.70" to 0.95"	T&B	2DDJ7
Malleable Iron/Steel			
½"	0.12" to 0.25"	Raco	2A246
	0.25" to 0.38"	Raco	2A247
Nylon			
½"	0.06" to 0.13"	Raco	52AY06
	0.25" to 0.38"	Raco	52AY08
	0.50" to 0.63"	Raco	52AY12
¾"	0.13" to 0.38"	T&B	2DDH2
	0.38" to 0.50"	Raco	52AY20
	0.50" to 0.63"	Raco	52AY14
1"	0.31" to 0.56"	T&B	2DDJ2
	0.63" to 0.75"	Raco	52AX49
Stainless Steel			
½"	0.13" to 0.38"	T&B	3EHV6
	0.36" to 0.56"	T&B	3EHV7
	0.50" to 0.75"	T&B	3EHV8
¾"	0.13" to 0.38"	T&B	3EHV9
	0.31" to 0.56"	T&B	3EHW1
	0.50" to 0.75"	T&B	3EHW2
1"	0.31" to 0.56"	T&B	3EHW3
	0.70" to 0.95"	T&B	3EHW4

Conduit Size	Cord Dia. Range	Brand	Item No.
Steel			
½"	0.25" to 0.35"	Raco	52AX47
	0.50" to 0.75"	T&B	2DDG6
¾"	0.25" to 0.38"	Raco	52AY13
	0.38" to 0.50"	Raco	52AY11
	0.45" to 0.56"	Raco	52AY05
1"	0.60" to 0.70"	Raco	52AX43
	0.70" to 0.85"	Raco	52AY18
90°			
Aluminum			
½"	0.13" to 0.38"	T&B	2DDK4
	0.31" to 0.56"	T&B	2DDK7
¾"	0.13" to 0.38"	T&B	2DDL2
	0.31" to 0.56"	T&B	2DDL5
	0.50" to 0.75"	T&B	2DDL8
1"	0.31" to 0.56"	T&B	2DDN2
Malleable Iron			
½"	0.15" to 0.25"	Raco	52AY16
	0.25" to 0.38"	Raco	52AY17
	0.45" to 0.56"	Raco	52AY19
¾"	0.25" to 0.38"	Raco	52AX44
	0.45" to 0.56"	Raco	52AY21
1"	0.45" to 0.56"	Raco	52AX53
Nylon			
½"	0.13" to 0.38"	T&B	2DDK5
	0.31" to 0.56"	T&B	2DDK8
¾"	0.13" to 0.38"	T&B	2DDL3
	0.31" to 0.56"	T&B	2DDL6
	0.50" to 0.75"	T&B	2DDL9
45°			
Malleable Iron			
½"	0.15" to 0.25"	Raco	52AX50
	0.25" to 0.35"	Raco	52AX51
	0.45" to 0.56"	Raco	52AX48

HUBBELL® Wiring Device-Kellems

Liquid-Tight Miniature Nylon Straight Connectors


No. 5D520

Miniature version of full-size cord connectors. Resist corrosion. Hand-tightening installation. Complete with split-hinge Gotcha® ring and neoprene bushing. Include nylon locknut. Gray color. UL Listed (E54218(M)) and CSA Certified (LR27378).

Conduit Size	Cord Dia. Range	STANDARD Item No.	WITH SPIRAL Item No.
¼"	0.08" to 0.14"	5D520	5D544
¼"	0.14" to 0.20"	5D521	5D545
¼"	0.20" to 0.27"	5D522	5D546
⅜"	0.15" to 0.21"	5D523	—
⅜"	0.21" to 0.28"	5D524	5D548
⅜"	0.28" to 0.34"	5D525	5D549
½"	0.19" to 0.25"	5D528	6D058
½"	0.25" to 0.31"	5D529	6D059
½"	0.31" to 0.38"	5D530	6D060
½"	0.38" to 0.44"	5D531	6D061

Arlington

Low-Profile Strain-Relief Cord Grips


No. 4JWN6

Zinc die-cast body. Wide cord range reduces inventory requirements. Gripping grommet creates liquid-tight seal with superior pullout resistance. Sealing ring assures liquid-tight seal with nonthreaded openings. UL Listed (unless noted), CSA Certified.

Cord Dia. Range	½" Item No.	¾" Item No.
0.10" to 0.30"	4JWN6 *	4JWN7 *
0.20" to 0.47"	4JWN8	4JWN9
0.38" to 0.75"	4JWP1	4JWP2

** UL not applicable for 0.100" to 0.195" dia. wire.*

HUBBELL® Wiring Device-Kellems

Low-Profile Euro Nylon Cord Connectors


No. 2DPD9

Straight connectors provide excellent pullout strength and can be installed without disassembly. Resist saltwater, weak acids, gasoline, alcohol, oil, grease, and common solvents. Threaded body guards against skipping and speeds installation. Compression nut ratchet prevents unintentional loosening. Suitable for NEMA Type 4 and 6 enclosures. UL Listed and CSA Certified.

Hub Trade Size	Cord Dia. Range	GRAY Item No.	BLACK Item No.	LOCKNUTS Item No.
⅜"	0.18" to 0.31"	2DPE3	2DPE2	2DZG5
½"	0.17" to 0.45"	2DPE5	2DPE4	2DZG6
¾"	0.45" to 0.71"	2DPE7	2DPE6	2DZG7
1"	0.59" to 1.00"	2DPE1	2DPD9	2DZG8
PG7	0.11" to 0.25"	2DPF8	2DPF7	2DZH4
PG9	0.18" to 0.31"	2DPG1	2DPF9	2DZH5
PG11	0.23" to 0.40"	2DPE9	2DPE8	2DZG9
PG13.5	0.17" to 0.47"	2DPF2	2DPF1	2DZH1
PG16	0.23" to 0.53"	2DPF4	2DPF3	2DZH2
PG21	0.45" to 0.71"	2DPF6	2DPF5	2DZH3


No. 6D018

HUBBELL® Wiring Device-Kellems

Non-Liquid-Tight Nylon Snap-in Connectors with Spiral

Provide arc-of-bend control to improve cord life and reduce conductor breakage. Nos. 6D018 and 5D513 fit chassis thickness up to 0.10"; Nos. 5D514 and 5D515 up to 0.13". Gray color. UL Listed (E96650) and CSA Certified (LR27378).

Cord Dia. Range	Item No.
0.22" to 0.27"	6D018
0.28" to 0.32"	5D513
0.30" to 0.36"	5D514
0.32" to 0.43"	5D515

Thomas&Betts
A Member of the ABB Group

Compact Nylon Multicord Grips


No. 2HYA6

Nonmetallic connectors are excellent for use in limited-space environments where multiple cables enter an enclosure. Nylon 6 construction provides excellent corrosion, chemical, and impact resistance. NEMA 4 and IP68 rated. Gray color. CSA Certified.

Conduit Size	No. of Cords	Cord Dia. Range	Item No.
⅜"	1	0.20" to 0.39"	2HYA6
½"	1	0.39" to 0.55"	2HYA5
½"	2	0.19" to 0.25"	2HXZ9
½"	3	0.19" to 0.25"	2HYA1
¾"	2	0.23" to 0.29"	2HYA2
¾"	3	0.23" to 0.29"	2HYA3
¾"	4	0.23" to 0.29"	2HYA4

RACO®
A Division of Hubbell Incorporated (Delaware)

Liquid-Tight Strain Relief Cord Connectors


No. 2A246

Note: Locknuts and seal rings are not included, see page 315 and 322.

Conduit Size	Cord Dia. Range	Item No.
Straight Connectors		
½"	0.12" to 0.25"	2A246
½"	0.25" to 0.38"	2A247
½"	0.38" to 0.50"	2A248
½"	0.50" to 0.60"	2A251
Underground Feeder Connector		
½"	0.22" to 0.42"	2A252

Thomas&Betts
A Member of the ABB Group

Machined Aluminum Tray Cable and Cord Fittings


No. 2FPF6

Silver Grip TCF Series nonmagnetic, corrosion-resistant straight aluminum fittings are designed for installation in Class 1 Gas and Vapor environments, without the use of tools. They provide efficient strain relief for cable entering enclosures and raceways in hazardous locations. Tapered neoprene bushing and O-ring seal out moisture and dirt. The chuck grip exceeds the pullout value required by NEC. CSA Certified.

Note: Tray cable and portable cord applications comply with IEC requirements for Class 1, Zone 2, and Zone 1 locations, respectively, when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF fittings must be used in combination with a certified Class 1 hazardous location sealing fitting.

Hub Trade Size	Cord Dia. Range	Item No.
½"	0.15" to 0.27"	2FPF6
½"	0.25" to 0.40"	2FPF7
½"	0.40" to 0.54"	2FPF8
½"	0.54" to 0.67"	2FPF9
½"	0.66" to 0.78"	2FPG1
¾"	0.25" to 0.40"	2FPG2
¾"	0.40" to 0.54"	2FPG3
¾"	0.54" to 0.67"	2FPG4
¾"	0.66" to 0.78"	2FPG5
¾"	0.77" to 0.88"	2FPG6
1"	0.87" to 1.00"	2FPG7
1"	0.66" to 0.78"	2FPG8
1"	0.77" to 0.88"	2FPG9
1¼"	0.80" to 1.09"	2FPH1
1¼"	1.08" to 1.28"	2FPH2
1¼"	1.27" to 1.47"	2FPH3
1½"	0.89" to 1.15"	2FPH4
1½"	1.14" to 1.40"	2FPH5
1½"	1.39" to 1.65"	2FPH6
2"	1.19" to 1.53"	2FPH7
2"	1.52" to 1.86"	2FPH8
2"	1.85" to 2.19"	2FPH9


No. 2AXJ8

HUBBELL® Wiring Device-Kellems

Nylon Liquid-Tight Connectors with Strain Relief

Multiweave mesh gives these straight grips arc-of-bend control, minimizing damage and extending cable or conduit life. Stainless steel mesh is corrosion-resistant. For indoor or outdoor use. UL Listed and CSA Certified.

Trade Size	Cable Dia. Range	Item No.
½"	0.38" to 0.50"	2AXJ8
½"	0.50" to 0.63"	2AXJ9
¾"	0.38" to 0.50"	2AXK1
¾"	0.50" to 0.63"	2AXK2
¾"	0.63" to 0.75"	2DDV6



No. 36HY35



No. 36HY50

Stainless Steel Cord Grips

Calbrite
Stainless Steel Conduit Systems

Provide exceptional tensile strength and the highest levels of durability in harsh/corrosive environments. Polished with standard bright finish to increase corrosion resistance and aesthetic appearance. All connectors include an embedded Buna-A O-Ring. All connectors include a stainless steel Locknut. No package quantity required. Manufactured in type 304 stainless steel.

Hub Trade Size	Cord Dia. Range	WITHOUT MESH GRIP Item No.	WITH MESH GRIP Item No.
½"	0.12 in to 0.18 in	**36HY35**	—
½"	0.18 in to 0.25 in	**36HY36**	—
½"	0.25 in to 0.31 in	**36HY37**	**36HY50**
½"	0.31 in to 0.37 in	**36HY38**	**36HY51**
½"	0.37 in to 0.43 in	**36HY39**	—
½"	0.43 in to 0.50 in	**36HY40**	**36HY52**
½"	0.50 in to 0.56 in	**36HY41**	**36HY53**
½"	0.56 in to 0.62 in	**36HY42**	**36HY54**
¾"	0.43 in to 0.50 in	**36HY43**	—
¾"	0.50 in to 0.63 in	**36HY44**	**36HY55**
¾"	0.56 in to 0.68 in	**36HY45**	**36HY56**
¾"	0.62 in to 0.75 in	**36HY46**	—
¾"	0.68 in to 0.81 in	**36HY47**	**36HY57**
1"	0.56 in to 0.68 in	**36HY48**	—
1"	0.81 in to 0.93 in	**36HY49**	**36HY58**
1"	0.87 in to 1.00 in	—	**36HY59**



I-Grip
No. 6D190



Bus Drop
No. 6C095

Strain-Relief Devices and Cable Support Grips

HUBBELL Wiring Device-Kellems

UL Listed (except No. 6C095) and CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 10.

I-GRIPS FOR HUBBELL INSULGRIP® PLUGS AND CONNECTORS

Strain relief devices control cable arc-of-bend and reduce high pull tensions on cordsets from wiring terminals. Fit all 2-, 3-, 4-, and 5-wire Hubbell Insulgrip plugs and connector bodies. Eye tabs fit under nylon cord clamp and screws slide through eyelet holes, securing grip in place. Made of high-strength, plastic-coated galvanized steel strand. Indoor use only.

Note: Grip only; plug and connectors are not included. See page 334 for plugs.

BUS-DROP CABLE SUPPORT GRIPS

Safe, easy, and economical method to support flexible-cord or bus-drop cable. Galvanized wire mesh ensures holding power. Single eye easily attaches to any hanger. For indoor use only. Suitable for assembly equipment in manufacturing, processing, or material handling applications.

Cable Dia. Range	Mesh Length	I-GRIP Mfr. Model	I-GRIP Item No.	BUS DROP Mfr. Model	BUS DROP Item No.
0.24 in to 0.32 in	3 ½ in	—	—	073041276	**6C095**
0.32 in to 0.43 in	4 in	07310001	**6D190**	073041277	**6C096**
0.43 in to 0.56 in	4 ¾ in	07310002	**6D191**	073041278	**6C097**
0.56 in to 0.73 in	6 in	07310003	**6D192**	073041279	**6C098**
0.73 in to 0.85 in	6 ¾ in	07310004	**6D193**	073041280	**6C099**
0.85 in to 1.00 in	8 in	07310005	**6D194**	073041281	**6C100**
1.00 in to 1.25 in	9 ½ in	07310006	**6D195**	073041282	**6D123**



Closed Mesh
No. 6D229



Rod Closing
No. 6D240



Lace Closing
No. 6D251

Single-Eye Cable Support Grips

HUBBELL Wiring Device-Kellems

Hold the weight of electrical cables as they hang in a vertical, sloping, or horizontal position. The single eye simplifies attachment. Easy to install, reuse, and reposition. Split styles wrap around cable when cable end is not accessible. Tin-coated bronze. UL Listed and CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 10.

Cable Dia. Range	Breaking Strength	Eye Length	CLOSED MESH Mfr. Model	CLOSED MESH Item No.	ROD CLOSING Mfr. Model	ROD CLOSING Item No.	LACE CLOSING Mfr. Model	LACE CLOSING Item No.
0.50 in to 0.62 in	530 lb	7 in	02201013	**6D229**	02203013	**6D240**	02202013	**6D251**
0.63 in to 0.74 in	790 lb	8 in	02201014	**6D230**	02203014	**6D241**	02202014	**6D252**
0.75 in to 0.99 in	1,020 lb	8 in	02201015	**6D231**	02203015	**6D242**	02202015	**6D253**
1.00 in to 1.24 in	1,610 lb	9 in	02201017	**6D232**	02203017	**6D243**	02202017	**6D254**
1.25 in to 1.49 in	1,610 lb	10 in	02201018	**6D233**	02203018	**6D244**	02202018	**6D255**
1.50 in to 1.74 in	1,610 lb	12 in	02201019	**6D234**	02203019	**6D245**	02202019	**6D256**
1.75 in to 1.99 in	2,150 lb	14 in	02201020	**6D235**	02203020	**6D246**	02202020	**6D257**
2.00 in to 2.49 in	3,260 lb	16 in	02201021	**6D236**	02203021	**6D247**	02202021	**6D258**
2.50 in to 2.99 in	3,260 lb	18 in	02201022	**6D237**	02203022	**6D248**	—	—



No. 6C089

Mesh Grips for Cord and Cable

HUBBELL Wiring Device-Kellems

Strong strain-relief grips prevent cable pullout where a dust-tight seal is required. Galvanized steel. UL Listed and CSA Certified.

Trade Size	Cable Dia. Range	UNINSULATED Mfr. Model	UNINSULATED Item No.	INSULATED Mfr. Model	INSULATED Item No.
½"	0.24 in to 0.32 in	073031200	**6C089**	073031206	**6D113**
½"	0.32 in to 0.43 in	073031201	**6C090**	073031207	**6D114**
½"	0.43 in to 0.54 in	073031202	**6C091**	073031208	**6D115**
¾"	0.54 in to 0.73 in	073031203	**6C092**	073031209	**6D116**
1"	0.73 in to 0.97 in	073031204	**6C093**	073031210	**6D117**
1¼"	0.97 in to 1.25 in	073031205	**6C094**	073031211	**6D118**
1½"	1.25 in to 1.50 in	—	—	073031212	**6D119**
2"	1.50 in to 1.70 in	—	—	073031213	**6D120**



No. 6D262

Safety Springs

HUBBELL Wiring Device-Kellems

High-quality zinc-plated steel springs relieve sudden tension on cable systems. Easy to install and use with bus-drop and strain-relief grips. UL Listed and CSA Certified.

Description	Approx. Breaking Strength	Length (No Load)	Dia.	Mfr. Model	Item No.
40-lb. Spring	500 lb	8 ¼ in	¾ in	20302001	**6D262**
80-lb. Spring	850 lb	8 ¼ in	1 in	20302002	**6D263**


No. 1LXR3


No. 1LXY8


No. 1LXW8


No. 1LYB2


No. 5C228


No. 5C266


No. 3D014


No. 3KT99


No. 1CFC5

Wall Plates

HUBBELL® AND BRYANT®

Virtually unbreakable nylon plates resist cracking. Stainless steel plates are Type 302/304 with high nickel and chromium content for improved corrosion resistance. Anodized aluminum plates offer the corrosion resistance of stainless steel. UL Listed and CSA Certified.

CORTECH®

Built to withstand demanding institutional and industrial environments. Injection molded in high-strength nylon/polycarbonate resin blend that eliminates the need for painting. Oversized to mount directly into any wall type. Each includes Torx® Tapcon mounting hardware. Smudge-resistant. White color. ETL Listed.

No. of Gangs	Description	BROWN Item No.	GRAY Item No.	IVORY Item No.	RED Item No.	WHITE Item No.
Hubbell Standard, Nylon						
1	Toggle Switch	1LXR3	1LXT3	1LXT4	1LXT5	1LXT6
2	Toggle Switch	1LXT7	1LXY4	1LXY5	1LXY6	1LXY7
3	Toggle Switch	1LXY8	2XVA8	1LXY9	—	1LXZ1
4	Toggle Switch	2XUZ8	1LXZ2	1LXZ3	—	1LXZ4
5	Toggle Switch	2XUZ9	1LXZ5	2XVD2	—	2XVE1
6	Toggle Switch	—	1LXZ6	1LXZ7	—	1LXZ8
1	GFCI (Style Line)	1LXU3	1LXW8	1LXW9	1LXY2	1LXY3
2	GFCI (Style Line)	1LXU4	1LXU5	1LXU6	1LXU8	1LXU9
3	GFCI (Style Line)	1LXW1	1LXW3	1LXW4	2XVD5	1LXW5
4	GFCI (Style Line)	1LXW6	2XVA9	2XVD3	—	2XVE2
1	Duplex Receptacle	1LYA6	1LYB5	1LYB6	1LYB8	1LYB9
2	Duplex Receptacle	1LYA7	1LYA9	1LYB1	1LYB2	1LYB3
1	Blank Strap Mount	1LXR4	1LXR5	1LXR6	2XVD6	1LXR7
1	Blank	—	—	2EAW5	—	2EAW6
2	Blank Strap Mount	1LXT8	1LXT9	1LXU1	2XVD7	1LXU2
1	Twist-Lock 20/30A, 1.60" Hole Dia.	1LYA1	2XVC1	2XVD4	2XVD8	2XVE3
1	Straight Blade 15/20A, 1.40" Hole Dia.	1LXZ9	1LYA2	1LYA3	1LYA4	1LYA5
2	Toggle Switch/Duplex Receptacle	1LXR8	1LXR9	1LXT1	2XVD9	1LXT2
Hubbell Mid Size, Nylon						
1	Toggle Switch	1LYC1	2XVC2	1LYC6	2XVE4	1LYC7
2	Toggle Switch	2XVA2	2XVC3	1LYD5	2XVE5	1LYD6
1	GFCI (Style Line)	1LYC9	2XVC4	1LYD2	1LYD3	1LYD4
2	GFCI (Style Line)	2XVA3	2XVC5	1LYD1	2XVE6	2XVE7
1	Duplex Receptacle	1LYD7	2XVC6	1LYF3	1LYF4	1LYF6
2	Duplex Receptacle	2XVA4	2XVC7	1LYD8	1LYD9	1LYF1
1	Blank Box Mount	2XVA5	2XVC8	1LYC5	—	2XVE8
2	Toggle Switch/GFCI (Style Line)	2XVA6	2XVC9	1LYC2	—	1LYC3
3	2 Toggle Switch/GFCI (Style Line)	2XVA7	2XVD1	1LYC8	—	2XVE9

No. of Gangs	Description	Item No.
Hubbell Brushed Stainless Steel		
1	Toggle Switch	5Z994
2	Toggle Switch	5Z995
3	Toggle Switch	5Z996
1	GFCI (Style Line)	5C235
2	GFCI (Style Line)	5C236
1	Duplex Receptacle	5C228
2	Duplex Receptacle	5C229
3	Duplex Receptacle	5C230
2	Blank Box Mount	5C267
1	Telephone	3D435
1	Single Receptacle 1.40" Dia. Hole	5C231
2	Duplex Receptacle/Blank	3D436
2	Toggle Switch/Duplex Receptacle	3D437
2	Toggle Switch/GFCI (Style Line)	4D493
2	Toggle Switch/Blank	4D487
Hubbell Smooth Stainless Steel		
3	GFCI (Style Line)	4D501
Hubbell Matte Stainless Steel		
1	Blank Box Mount	5C266
Hubbell Smooth Stainless Steel		
1	Blank	2EAW7
3	Blank Box Mount	4D515
1	Single Receptacle 1.60" Dia.	5C268
1	Single Receptacle 1.72" Hole Dia.	3D465
1	Single Receptacle 2.15" Hole Dia.	6C120
2	Single Receptacle 2.15" Hole Dia.	6C154
2	Single Receptacle 2.48" Hole Dia.	3D445
2	Duplex Receptacle/Single 1.40" Dia.	4D533
Hubbell Brushed Brass		
1	Duplex Receptacle	5C227
1	Toggle Switch	5Z993
Hubbell Brushed Aluminum		
1	Duplex Receptacle	5C226
1	Toggle Switch	5Z992
Hubbell Steel, Chrome Plated		
1	Blank Box Mount	5LY82
Hubbell Weatherproof Plates for PresSwitches		
1	Neoprene	3D012
1	Neoprene with 120V Pilot Light	3D013
1	Neoprene with Silicone Bubble, Fits Toggle, Tamper-Resistant	3D014
Hubbell Steel, White, Security		
1	Blank	3KT92
1	Duplex Receptacle	3KT99
1	GFCI (Style Line)	3KT96
1	Toggle Switch	3KT90
1	Telephone/TV	3KT91
2	Toggle Switch	3KT94
2	Duplex Receptacle	3KV03
2	Toggle Switch/Duplex Receptacle	3KT93
2	GFCI (Style Line)	3KT97
2	Duplex Receptacle/Telephone	3KV01
2	Duplex Receptacle/Blank	3KV02
2	Blank	3KT95
3	2 Toggle Switch/Duplex Receptacle	3KT98
Cortech ABS, Tamper Resistant, Security		
1	Blank	1CFD1
2	Blank	1CFD2
1	Toggle Switch	1CFC4
2	Toggle Switch	1CFC7
1	Duplex Receptacle	1CFC5
2	Duplex Receptacle	1CFC8
1	GFCI	1CFC6
2	GFCI	1CFC9

Lockout Devices for Electrical Plugs

PLUGOUT® DEVICES

Accept up to ⅜"-dia. lock shackle and multiple padlocks. Nonkeyed units have holes to insert authorized user identification tags (not included). UV-stabilized polypropylene.

No. 3D384



Description	Color	Mfr. Model	Item No.
Plugout® to Accept 15A Molded Plugs	Yellow	HLDMP	3D384
Plugout® to Accept up to 5W 30A Twist-Lock Devices	Yellow	HLD	6C647
Plugout® to Accept up to 60A Pin & Sleeve Devices	Yellow	HLD2	6C648

Electrical Outlet Safety Cap



Insert into unused outlets to serve as a barrier. Easily removed by adults when needed for lights and appliances.

Material of Construc.	Color	For Use With	Item No.	Pkg. Qty.
Plastic	Clear	15A Straight Blade Connectors	52NY39	10



No. 52HF17	No. 49YL48	No. 52HE90	No. 49YL57	No. 1X969	No. 49YZ42	No. 1X970	No. 52HE59	No. 5Z809	No. 49YZ68	No. 49YZ76	No. 5Z737

Wall Switches

BRYANT® HUBBELL® Wiring Device-Kellems

Switch Style	Amps AC	Switch Type	Brand	BROWN Mfr. Model	BROWN Item No.	GRAY Mfr. Model	GRAY Item No.	IVORY Mfr. Model	IVORY Item No.	RED Mfr. Model	RED Item No.	WHITE Mfr. Model	WHITE Item No.
General Purpose, Maintained, Push and Side Wire, 120V													
Toggle	15	1-Pole	Bryant	RS115	**49YZ74**	—	—	RS115I	**52HF15**	—	—	RS115W	**52HF16**
	15	3-Way	Bryant	RS315	**49YZ75**	—	—	RS315I	**52HF17**	—	—	RS315W	**52HF18**
Rocker	15	1-Pole	Bryant	RSD115	**52HF19**	—	—	RSD115I	**52HF20**	—	—	RSD115W	**52HF21**
	15	3-Way	Bryant	RSD315	**49YZ77**	—	—	—	—	—	—	RSD315W	**52HF22**
Commercial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15	1-Pole	Bryant	CSB115B	**49YZ69**	CSB115BGRY	**52HF02**	CSB115BI	**52HF03**	—	—	CSB115BW	**52HF04**
	15	1-Pole	Hubbell	CSB115	**49YL46**	CSB115GY	**49YL48**	CSB115I	**49YL41**	—	—	CSB115W	**49YL44**
	15	3-Way	Bryant	CSB315B	**49YZ72**	CSB315BGRY	**52HF09**	CSB315BI	**52HF10**	—	—	CSB315BW	**52HF11**
	15	3-Way	Hubbell	CSB315	**49YL55**	CSB315GY	**52HF30**	CSB315I	**49YL50**	—	—	CSB315W	**49YL53**
	20	1-Pole	Bryant	CSB120B	**49YZ70**	CSB120BGRY	**52HF05**	CSB120BI	**52HF06**	CSB120BRED	**52HF07**	CSB120BW	**52HF08**
	20	1-Pole	Hubbell	CSB120	**49YL42**	CSB120GY	**49YL47**	CSB120I	**49YL39**	CSB120R	**49YL61**	CSB120W	**49YL40**
	20	2-Pole	Bryant	CSB220B	**49YZ71**	—	—	—	—	—	—	—	—
	20	2-Pole	Hubbell	CSB220	**49YL56**	—	—	—	—	—	—	—	—
	20	3-Way	Hubbell	CSB320	**49YL51**	CSB320GY	**49YL52**	CSB320I	**49YL43**	—	—	CSB320W	**49YL49**
	20	3-Way	Bryant	CSB320B	**49YZ73**	CSB320BGRY	**52HF12**	BRYCSB320BI	**52HF13**	—	—	CSB320BW	**52HF14**
Rocker	15	1-Pole	Hubbell	DS115	**5Z778**	DS115GY	**5Z781**	DS115I	**5Z779**	—	—	RSD115PLW	**49YL58**
	15	1-Pole	Bryant	9801	**49YZ45**	9801GRY	**52HE82**	9801I	**52HE83**	—	—	9801W	**52HE84**
	15	1-Pole	Hubbell	—	—	—	—	—	—	—	—	DS115W	**5Z780**
	15	3-Way	Hubbell	DS315	**5Z782**	DS315GY	**2LBV2**	DS315I	**5Z783**	—	—	DS315W	**5Z784**
	15	3-Way	Bryant	9803	**49YZ46**	9803GRY	**52HE85**	9803I	**52HE86**	—	—	9803W	**52HE87**
	20	1-Pole	Hubbell	DS120	**5Z786**	DS120GY	**5Z789**	DS120I	**5Z787**	DS120R	**49YL57**	DS120W	**5Z788**
	20	1-Pole	Bryant	9901	**49YZ47**	9901GRY	**52HE90**	9901I	**52HE91**	—	—	9901W	**52HE92**
	20	3-Way	Bryant	9903	**49YZ48**	9903GRY	**52HE95**	9903I	**52HE96**	—	—	9903W	**52HE97**
	20	3-Way	Hubbell	—	—	—	—	DS320I	**5Z791**	DS320R	**49YL62**	DS320W	**5Z792**
	20	4-Way	Bryant	9904	**49YZ49**	9904GRY	**52HE98**	9904I	**52HE99**	—	—	9904W	**52HF01**
	20	4-Way	Hubbell	DS420	**49YL63**	DS420GY	**49YL65**	—	—	—	—	DS420W	**49YL60**
Commercial, Maintained, Side Wire, 120 to 277V													
Toggle	15	1-Pole	Hubbell	—	—	—	—	CS115I	**6A672**	—	—	—	—
Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15	1-Pole	Bryant	4801B	**49YZ52**	4801BGRY	**52HE44**	4801BI	**52HE45**	—	—	4801BW	**52HE47**
	15	1-Pole	Hubbell	HBL1201	**1X969**	HBL1201GY	**4D263**	HBL1201I	**6A699**	HBL1201R	**4D264**	HBL1201W	**4D265**
	15	2-Pole	Bryant	4802	**49YZ41**	4802GRY	**52HE48**	4802I	**52HE49**	—	—	4802W	**52HE50**
	15	2-Pole	Hubbell	HBL1202	**5Z718**	—	—	HBL1202I	**5Z721**	—	—	—	—
	15	3-Way	Bryant	4803B	**49YZ54**	4803BGRY	**52HE51**	4803BI	**52HE52**	—	—	4803BW	**52HE54**
	15	3-Way	Hubbell	HBL1203	**5Z719**	HBL1203GY	**2LBU3**	HBL1203I	**5Z722**	—	—	HBL1203W	**49YL54**
	15	4-Way	Hubbell	HBL1204	**5Z720**	HBL1204GY	**2LBU4**	HBL1204I	**5Z723**	—	—	HBL1204W	**49YL64**
	15	4-Way	Bryant	4804	**49YZ42**	4804GRY	**49YZ56**	4804I	**49YZ57**	—	—	4804W	**49YZ58**
	20	1-Pole	Bryant	BRY4901B	**49YZ59**	4901BGRY	**52HE58**	4901BI	**52HE59**	4901BRED	**52HE60**	4901BW	**52HE61**
	20	1-Pole	Hubbell	HBL1221	**1X970**	HBL1221GY	**6C540**	HBL1221I	**6A700**	HBL1221R	**3D362**	HBL1221W	**6C541**
	20	2-Pole	Bryant	4902B	**49YZ63**	4902BGRY	**52HE64**	4902BI	**52HE63**	4902BRED	**52HE65**	4902BW	**52HE66**
	20	2-Pole	Hubbell	HBL1222	**1X971**	HBL1222GY	**4D275**	HBL1222I	**1X972**	HBL1222R	**4D278**	HBL1222W	**4D279**
	20	3-Way	Bryant	4903B	**49YZ65**	4903BGRY	**52HE69**	4903BI	**52HE72**	4903BRED	**52HE70**	4903BW	**52HE71**
	20	3-Way	Hubbell	HBL1223	**1X973**	HBL1223GY	**6C542**	HBL1223I	**1X974**	HBL1223R	**3D365**	HBL1223W	**6C543**
	20	4-Way	Hubbell	HBL1224	**5Z726**	HBL1224GY	**4D284**	HBL1224I	**5Z727**	HBL1224R	**2LBU5**	HBL1224W	**4D286**
	20	4-Way	Bryant	4904B	**52HE75**	4904BGRY	**52HE76**	4904BI	**52HE77**	4904BRED	**52HE78**	4904BW	**49YZ68**
	30	1-Pole	Bryant	3001	**49YZ40**	—	—	3001I	**52HE40**	—	—	—	—
	30	1-Pole	Hubbell	HBL3031	**5Z806**	—	—	HBL3031I	**5Z809**	—	—	—	—
	30	2-Pole	Bryant	3002BRN	**52HE41**	—	—	3002I	**49YZ50**	—	—	—	—
	30	2-Pole	Hubbell	HBL3032	**5Z807**	—	—	HBL3032I	**5Z810**	—	—	HBL3032W	**52HF31**
	30	3-Way	Bryant	3003BRN	**52HE42**	—	—	3003I	**49YZ51**	—	—	—	—
	30	3-Way	Hubbell	HBL3033	**5Z808**	—	—	—	—	—	—	—	—
Industrial, Momentary, Back and Side Wire, 120 to 277V													
Toggle	15	1-Pole	Bryant	4821	**49YZ43**	4821GRY	**52HE56**	4821I	**52HE57**	—	—	—	—
	15	1-Pole, 3 Pos. Ctr. Off	Hubbell	HBL1556	**3D376**	HBL1556GY	**3D377**	HBL1556I	**3D378**	HBL1556R	**2LBU8**	HBL1556W	**49YL59**
	20	1-Pole	Bryant	4921	**49YZ44**	4921GRY	**52HE80**	4921I	**52HE81**	—	—	—	—
	20	1-Pole, 3 Pos. Ctr. Off	Hubbell	HBL1557	**3D380**	HBL1557GY	**2LBU9**	HBL1557I	**3D381**	—	—	HBL1557W	**2LBV1**
Illuminated, Commercial, Maintained, Back and Side Wire, 120V													
Rocker	20	1-Pole	Hubbell	—	—	—	—	DS120IL	**5Z794**	—	—	DS120ILW	**5Z795**
	20	1-Pole	Bryant	—	—	—	—	9901GLI	**52HE88**	—	—	9901GLW	**52HE89**
	20	3-Way	Hubbell	—	—	—	—	DS320IL	**5Z796**	—	—	DS320ILW	**5Z797**
	20	3-Way	Bryant	—	—	—	—	9903GLI	**52HE93**	—	—	9903GLW	**52HE94**
Illuminated, Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15	1-Pole	Hubbell	—	—	—	—	HBL1201IL	**5Z731**	—	—	—	—
	15	1-Pole	Bryant	—	—	—	—	4801GLI	**49YZ53**	—	—	—	—
	15	3-Way	Bryant	—	—	—	—	4803GLI	**49YZ55**	—	—	—	—
	15	3-Way	Hubbell	—	—	—	—	HBL1203IL	**5Z732**	—	—	—	—
	20	1-Pole	Bryant	—	—	—	—	4901GLI	**49YZ60**	—	—	—	—
	20	1-Pole	Hubbell	—	—	—	—	HBL1221IL	**5Z733**	HBL1221ILC	**4D272** *	—	—
	20	3-Way	Bryant	—	—	—	—	4903GLI	**49YZ66**	—	—	—	—
	20	3-Way	Hubbell	—	—	—	—	HBL1223IL	**5Z734**	—	—	—	—
Pilot Light, General Purpose, Maintained, Back and Side Wire, 120 to 277V													
Rocker	15	1-Pole	Bryant	—	—	—	—	RSD115PLI	**49YZ76**	—	—	—	—
Pilot Light, Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15	1-Pole	Hubbell	—	—	—	—	—	—	HBL1201PL	**5Z735**	—	—
	15	3-Way	Hubbell	—	—	—	—	—	—	HBL1203PL	**5Z736**	—	—
	20	1-Pole	Bryant	—	—	—	—	—	—	4901PLC120	**49YZ62** *	—	—
	20	1-Pole	Bryant	—	—	—	—	—	—	4901PLR120	**52HE62**	—	—
	20	1-Pole	Hubbell	—	—	—	—	—	—	HBL1221PL	**5Z737**	—	—
	20	3-Way	Hubbell	—	—	—	—	—	—	HBL1223PL	**5Z738**	—	—
	20	3-Way	Bryant	—	—	—	—	—	—	4903PLR120	**52HE73**	—	—
	20	3-Way	Bryant	—	—	—	—	—	—	4903PLC120	**49YZ67** *	—	—

Clear toggle handle.

HUBBELL® Wiring Device-Kellems **BRYANT®**

Locking Wall Switches

- 1 key included
- 120 to 277VAC
- Back and side wired



No. 5Z728

Amps AC	Switch Type	Color	Brand	Item No.
Maintained				
15 A	4-Way	Black	Bryant	**52HE55**
20 A	1-Pole	Black	Hubbell	**5Z728**
	1-Pole	Black	Bryant	**49YZ61**
	2-Pole	Black	Hubbell	**3D363**
	2-Pole	Black	Bryant	**49YZ64**
	2-Pole, 3 Pos.-Ctr. Off	Black	Hubbell	**4D287**
	3-Way	Black	Hubbell	**5Z729**
	4-Way	Black	Hubbell	**3D366**
Momentary				
20 A	1-Pole, 3 Pos.-Ctr. Off	Black	Hubbell	**3D382**
Replacement Key				
—	Key	—	Hubbell	**5Z730**

HUBBELL® Wiring Device-Kellems **BRYANT®**

Flanged Inlets and Receptacles for Panel Mounting



No. 3D189
Flanged Inlet



No. 3DZP6
Flanged Receptacle

Amps	NEMA Recep. Config.	Voltage	Color	Weather Resistant	HP	Brand	Item No.	
Flanged Inlets								
15	5-15P	125V AC	White	No	½ hp	Hubbell	**3D189**	
15	5-15P	125V AC	Gray	Yes	½ hp	Hubbell	**3D235**	*
15	5-15R	125V AC	White	No	½ hp	Bryant	**49YY60**	
15	6-15R	250V AC	White	No	1 ½ hp	Hubbell	**3D931**	
20	5-20R	125V AC	White	No	1 hp	Hubbell	**3D209**	
20	6-20R	250V AC	White	No	2 hp	Hubbell	**3D911**	
Flanged Receptacles								
15	5-15R	125V AC	White	No	½ hp	Hubbell	**5Z875**	
15	5-15R	125V AC	Brown	No	½ hp	Hubbell	**3D186**	
15	6-15R	250V AC	White	No	1 ½ hp	Bryant	**49YY62**	
20	5-20R	125V AC	White	No	1 hp	Hubbell	**3DZP6**	
20	6-20R	250V AC	White	No	2 hp	Hubbell	**3D912**	

**** Includes hinged cover.***



1-Pole
No. 1TJW6

HUBBELL® Wiring Device-Kellems **BRYANT®**

Barrel Key Locking Switches

1½ HP, 20A, 120/277V. Back- and side-wired with stainless steel face. Tamper-resistant. Authorized access only.

Description	Brand	Item No.
Wall Switch		
1-Pole	Bryant	**52JL80**
1-Pole	Hubbell	**1TJW6**
2-Pole	Bryant	**52HE67**
2-Pole	Hubbell	**1TJW7**
3-Way	Bryant	**52HE74**
3-Way	Hubbell	**1TJW8**
Barrel Key Wall Plate		
1-Gang, with Mounting Holes for #6-32 Screw, On/Off Marks	Hubbell	**1TJX1**
1-Gang	Hubbell	**1TJX2**
2-Gang, with On/Off Marks	Hubbell	**1TJX3**
2-Gang	Hubbell	**1TJX4**
Barrel Key		
Key For Hbl1221Rkl	Hubbell	**24X957**

HUBBELL® Wiring Device-Kellems

Pull-Chain Switch

On/Off SPST function. For use with lamp fixtures. See Grainger.com® for more switch options.



Mounting Hole	AC Contact Rating	Item No.
¼ in dia	3A @ 250V AC, 6A @ 125V AC	**49YK47**

BRYANT®

Straight-Blade Combination Devices

See Grainger.com® for more options.



No. 49YZ82



No. 49YZ81

Amps	Description/ Special Features	Voltage	BROWN Item No.	IVORY Item No.	WHITE Item No.
15 A	Switch/Receptacle	120V AC/125V DC	**49YZ79**	**49YZ80**	**49YZ81**
15 A	Single Pole Switch	120V AC/125V DC	**49YZ82**	—	—

Self-Testing GFCI Receptacles

HUBBELL® Wiring Device-Kellems **BRYANT®**

- 125VAC
- LED indicator

Devices protect personnel from shock hazards that can occur in electrical appliances and tools, especially in wet and damp locations. They meet new UL requirements by automatically monitoring ground fault circuit interrupting functionality every 3 hours or less. UL Listed (943 Class A for GFCIs, 498 for Receptacles) and CSA Certified.



No. 39EA17

Amps	NEMA Recep. Config.	Tamper Resistant	Weather Resistant	Power Indicator	Special Features	Brand	Mfr. Model	Pkg. Qty.	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	LIGHT ALMOND Item No.	RED Item No.	WHITE Item No.
Commercial															
15 A	5-15R	No	No	No	—	Bryant	GFRST153	3	—	—	—	**52HF43**	**52HF45**	—	**52HF44**
	5-15R	No	No	No	—	Bryant	GF15	1	—	—	—	**483P62**	—	—	—
	5-15R	No	No	Yes	—	Bryant	GF15	1	—	—	—	—	**483P64**	—	**483P63**
	5-15R	No	No	Yes	—	Hubbell	GFSPST15	1	—	—	—	**45UE92**	—	—	**45UE94**
	5-15R	No	Yes	Yes	—	Hubbell	GFWRST15	1	**45UF45**	**45UF48**	**45UF46**	**45UF47**	—	**45UF50**	**45UF51**
	5-15R	Yes	No	No	—	Bryant	GFTRST153	3	—	—	—	**52HF49**	**52HF51**	—	**52HF50**
	5-15R	Yes	No	Yes	—	Bryant	GF15	1	—	—	—	**483P68**	**483P70**	—	**483P69**
	5-15R	Yes	No	Yes	—	Hubbell	GFTRST15	1	**45UF29**	**45UF32**	**45UF30**	**45UF31**	—	**45UF34**	**45UF35**
	5-15R	Yes	Yes	Yes	—	Hubbell	GFTWRST15IG	1	—	**45UF64**	—	—	—	—	—
	5-15R	Yes	Yes	No	—	Hubbell	GFTWRST15	1	**39EA72**	**39EA70**	**39EA73**	**39EA74**	—	**39EA76**	**39EA77**
20 A	5-20R	No	No	No	—	Bryant	GFRST203	3	—	—	—	**52HF46**	**52HF48**	—	**52HF47**
	5-20R	No	No	No	—	Bryant	GF20	1	—	—	—	**483P65**	—	—	**483P66**
	5-20R	No	No	Yes	—	Bryant	GF20	1	—	—	—	—	**483P67**	—	—
	No Configuration	No	No	No	—	Hubbell	GFBFST20	1	**39EA27**	**39EA30**	**39EA28**	**39EA29**	—	**39EA31**	**39EA32**
	5-20R	No	Yes	Yes	—	Hubbell	GFWRST20	1	**45UF53**	**45UF56**	**45UF54**	—	—	**45UF58**	**45UF59**
	5-20R	Yes	No	No	—	Bryant	GFTRST203	3	—	—	—	**52HF40**	**52HF42**	—	**52HF41**
	5-20R	Yes	No	Yes	—	Bryant	GFT20	1	—	—	—	**483P59**	**483P61**	—	**483P60**
	5-20R	Yes	No	Yes	—	Hubbell	GFTRST20	1	**45UF37**	**45UF40**	**45UF38**	**45UF39**	—	**45UF42**	**45UF43**
	5-20R	Yes	No	Yes	Nightlight	Hubbell	GFTRST20NL	1	**45UE85**	—	—	**45UE87**	—	—	**45UE91**
	5-20R	Yes	Yes	No	—	Hubbell	GFTWRST20	1	**39EA80**	**39EA78**	**39EA81**	**39EA82**	—	**39EA84**	**39EA85**
	5-20R	Yes	Yes	Yes	—	Hubbell	GFTWRST20IG	1	—	**45UF72**	—	—	—	—	—
Industrial															
15 A	5-15R	No	No	No	—	Hubbell	GFRST15	1	**39EA15**	**39EA18**	**39EA16**	**39EA17**	—	**39EA19**	**39EA20**
	5-15R	No	No	Yes	Nightlight	Hubbell	GFRST15NL	1	**45UE61**	**45UE64**	—	—	—	—	**45UE67**
	5-15R	Yes	Yes	Yes	1 Nylon and SS Wall Plate	Hubbell	GF5262SG	1	**21VK82**	**21VK81**	**21VK83**	**21VK84**	—	**21VK85**	**21VK86**
20 A	5-20R	No	No	Yes	—	Hubbell	GFRST20	1	**39EA21**	**39EA24**	**39EA22**	**39EA23**	—	**39EA25**	—
	5-20R	No	No	No	—	Hubbell	GFRST20	1	—	—	—	—	—	—	**39EA26**
	5-20R	Yes	Yes	Yes	1 Nylon and SS Wall Plate	Hubbell	GF5362SG	1	**21VK88**	**21VK87**	**21VK89**	**21VK90**	—	**21VK91**	**21VK92**


No. 2HDZ9


No. 1X988


No. 6A667


No. 5A079

BRYANT® HUBBELL® Wiring Device-Kellems

Straight-Blade 15 and 20A Receptacles

Amps	NEMA Recep. Config.	Outlet Type	Tamper Resistant	Weather Resistant	Wiring Method	Voltage	Brand	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	RED Item No.	WHITE Item No.
Commercial													
	5-15R	Standard Duplex	No	No	Side	125V AC	Hubbell	2LBR8	1XC03	5Z836	6A670	—	5Z834
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	2HDW9	2HDW8	2HDX1	2HDX2	49YK90	2HDX3
	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	2HEA3	2HEA2	2HEA4	2HEA5	—	2HEA6
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	52HD55	52HD54	52HD59	49YZ15	—	52HD65
	5-15R	Standard Duplex	No	No	Side	125V AC	Bryant	52HD81	49YZ20	52HD83	52HD85	—	52HD87
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	—	49YL38	49YL35	49YL08	—	49YK77
	5-15R	Standard Duplex	No	No	Side	125V AC	Bryant	—	—	52HD75	52HD74	—	52HD76
	5-15R	Standard Duplex	Yes	No	Side	125V AC	Hubbell	2HDY1	2HDX9	—	2HDY3	—	—
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	2HDZ2	2HDZ1	2HDZ3	2HDZ4	49YK82	2HDZ5
	5-15R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Hubbell	2HEC4	—	2HEC5	2HEC6	—	2HEC7
15	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	49YL30 *	49YL25 *	49YL37 *	49YL24 *	—	49YL06 *
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	49YK69	49YK78	49YK93	49YK71	49YK89	49YK72
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	49YL18	49YK80	49YL33	49YK74	49YL04	49YK91
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Bryant	52HD56	49YZ16	52HD60	—	—	52HD67
	5-15R	Standard Duplex	Yes	No	Side	125V AC	Bryant	52HD82	49YZ21	52HD84	52HD86	—	49YZ22
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	—	—	49YL27	—	—	49YK96
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	—	49YL34	49YL15
	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	Hubbell	3DVU3	3DVU1	3DVU4	3DVU5	—	3DVU7
	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	Bryant	52HD97	49YZ25	52HD99	52HE02	—	52HE04
	5-15R	Decorator Duplex	Yes	No	Back and Side	125V AC	Bryant	52HD98	49YZ26	52HE01	52HE03	—	52HE05
	5-20R	Standard Duplex	No	No	Side	125V AC	Bryant	52HD88	49YZ23	52HD90	52HD92	—	52HD94
	5-20R	Standard Duplex	No	No	Side	125V AC	Hubbell	2LBR9	1XC04	5Z837	6A671	—	5Z835
	5-20R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	2HEA8	2HEA7	2HEA9	2HEC1	—	2HEC2
	5-20R	Standard Duplex	No	No	Side	125V AC	Bryant	—	—	52HD79	52HD78	—	52HD80
	5-20R	Standard Duplex	No	No	Modular	125V AC	Hubbell	—	—	—	49YL01	49YL22	49YL17
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	49YK68	49YK83	49YK67	49YK63	49YK60	49YK62
	5-20R	Standard Duplex	Yes	No	Side	125V AC	Bryant	52HD89	49YZ24	52HD91	52HD93	—	52HD95
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	49YL10 *	2HDZ6	2HDZ8	2HDZ9	—	2HEA1
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	—	49YL23 *	49YL07 *	49YL09 *	—	49YK98 *
20	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Bryant	—	49YZ17	52HD70	52HD72	—	52HD73
	5-20R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Bryant	—	49YZ18	52HD71	—	—	—
	5-20R	Standard Duplex	Yes	No	Side	125V AC	Hubbell	—	—	2HDY7	2HDY8	—	2HDY9
	5-20R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Hubbell	2HEC9	2HEC8	2HED1	2HED2	—	2HED3
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	49YL19	49YL03	49YK88	49YK70	49YK84	49YK76
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	49YK73	49YK87	49YK94
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	49YK85	—	49YK99
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	49YL31	—	49YL21
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	Bryant	52HE07	49YZ27	52HE09	52HE11	—	52HE14
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	Hubbell	3DVX1	3DVU8	3DVX2	3DVX3	—	3DVX5
	5-20R	Decorator Duplex	Yes	No	Back and Side	125V AC	Bryant	52HE08	49YZ28	52HE10	52HE12	—	52HE15
	5-20R	Decorator Duplex	Yes	No	Back and Side	125V AC	Hubbell	4FTZ5	4FTZ8	4FTZ6	4FTZ7	—	4FTZ9
General Purpose													
15	5-15R	Standard Duplex	Yes	No	Push and Side	125V AC	Hubbell	—	55MU59	—	55MU58	—	55MU56
	5-15R	Decorator Duplex	Yes	No	Push and Side	125V AC	Hubbell	—	—	—	55MU63	—	55MU61
20	5-20R	Single	No	No	Side	125V AC	Bryant	—	49YZ30	—	49YK61	—	52HE18
Harsh and Heavy Use Industrial													
	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	2HED6	2HEE1	2HED7	2HED8	2HED9	2HEE2
15	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	—	6A666	6C599	6A667	—	6C600
	5-15R	Single	No	No	Back and Side	125V AC	Hubbell	2WMT4	1X987	—	5Z813	—	—
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	2LBW2	6A668	6C606	6A669	3D902	6C607
	5-20R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	2HEE6	2HEF1	2HEE7	2HEE8	2HEE9	2HEF2
20	5-20R	Single	No	No	Back and Side	125V AC	Hubbell	—	1X988	2WMT3	5Z814	—	2WMT2
	5-20R	Single	No	Yes	Back and Side	125V AC	Hubbell	—	2HEE5	2HEE3	2HEE4	—	—
	6-20R	Standard Duplex	No	No	Back and Side	250V AC	Hubbell	—	1X990	2LBW5	3D212	—	—
	6-20R	Single	No	No	Back and Side	250V AC	Hubbell	—	1X989	—	5Z833	—	—
Hospital Grade													
20	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	Hubbell	—	—	49YL02	—	49YK59	49YK75
Industrial													
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	3D858	5A079	6C597	4A252	2LBV8	3D185
	5-15R	Standard Duplex	No	No	Side	125V AC	Bryant	—	49YY58	—	52HC53	—	—
15	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	52HC56	52HC58	52HC57	49YY70	52HC59	52HC60
	5-15R	Single	No	No	Side	125V AC	Hubbell	—	5C799	—	6C596	—	—
	6-15R	Standard Duplex	No	No	Back and Side	250V AC	Hubbell	—	1X994	—	3D220	—	—
	6-15R	Single	No	No	Back and Side	250V AC	Hubbell	—	1X993	—	5Z832	—	—
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	2LBV9	5A085	6C604	4A257	2LBW1	3D206
20	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	52HC68	52HC70	52HC69	49YY73	52HC71	52HC72
	5-20R	Single	No	No	Back and Side	125V AC	Bryant	—	52HC25	52HC62	49YY71	52HC65	52HC66

** Arc fault rated.*

4-PLEX® Receptacles

HUBBELL® Wiring Device-Kellems

- 125VAC

Adapter plates flush mount 4-PLEX receptacles to 1- or 2-gang device boxes or 4"-square boxes. Portable boxes include cord grip for up to 0.66" dia. cord.

Amps	NEMA Recep. Config.	Surge Suppression	Mfr. Model	BROWN Item No.	WHITE Item No.	IVORY Item No.	ORANGE Item No.	RED Item No.	BLUE Item No.
Commercial									
15	5-15R	No	HBL415	6C559	3D134	6C562	—	—	—
15	5-15R	No	IG415	—	—	—	6C652	—	—
20	5-20R	No	HBL420	6C565	3D142	6C568	—	—	—
20	5-20R	Yes	HBL420S	—	—	—	—	—	6C570
Hospital Grade									
15	5-15R	No	HBL415H	6C560	—	6C561	—	—	—
20	5-20R	No	HBL420H	6C566	—	6C567	—	3D760	—
Accessories									
Adapter Plates			HBL4AP	6C586	3D172	6C587	6C588	—	3D830
Adapter Boxs			HBL4PB	6C589	—	6C590	—	—	—


20-Amp Hospital Grade
No. 6C567


Portable Box
No. 6C590


Adapter Plate
No. 3D830

Surge Suppression Receptacles

- 125V
- Power On indicator light

Provide point-of-use protection that can cause premature electronic equipment failure. Audible alarm alerts occupants when device needs replacement. Features a high-impact, nylon face that resists damage. Isolated ground-grade models protect equipment from effects of noise on the ground circuit. For use in accordance with NEC/NFPA Article 250-74, Exception 2. UL Listed and CSA Certified.



No. 6C132

Amps	NEMA Recep. Config.	Application Environment	Special Features	Mfr. Model	BLUE Item No.	IVORY Item No.	ORANGE Item No.
Hubbell Wiring Device-Kellems							
15	5-15R	Commercial	—	HBL5260SA	**3D184**	**3D183**	—
15	5-15R	Harsh and Heavy Use Industrial	Audible Alarm	HBL5262SA	**6C132**	—	—
15	5-15R	Industrial	Audible Alarm	IG5262SA	**6C134**	—	—
20	5-20R	Commercial	—	HBL5360SA	**3D205**	**3D204**	—
20	5-20R	Harsh and Heavy Use Industrial	Audible Alarm	HBL5362SA	**6C133**	**6C605**	—
20	5-20R	Hospital Grade	Audible Alarm	HBL8362SA	**6C136**	**3D287**	—
20	5-20R	Hospital Grade	Audible Alarm	IG8362SA	**3D407**	**4D331**	—
20	5-20R	Industrial	Audible Alarm	IG5362SA	**6C135**	—	—
Bryant							
15	5-15R	Commercial	Audible Alarm	SP52A	**49YZ33**	**52HE21**	—
15	5-15R	Hospital Grade	Audible Alarm	SP82A	**49YZ36**	**52HE25**	—
15	5-15R	Hospital Grade	Audible Alarm	SP82IGA	**49YZ37**	**52HE26**	**52HE27**
20	5-20R	Commercial	Audible Alarm	SP53A	**49YZ34**	**52HE23**	—
20	5-20R	Commercial	Audible Alarm	SP53IGA	**49YZ35**	**52HE24**	—
20	5-20R	Hospital Grade	Audible Alarm	SP83A	**49YZ38**	**52HE31**	—
20	5-20R	Hospital Grade	Audible Alarm	SP83IGA	**49YZ39**	**52HE33**	**52HE34**

Isolated Ground Receptacles

- 125V

Insulation-barrier construction isolates ground contacts from mounting strap for a noise-free ground. Reinforced thermoplastic polyester base with impact-resistant nylon face. For use in accordance with NEC/NFPA Article 250-74, Exception 4.



No. 4FTW7



No. 3D400

Amps	NEMA Recep. Config.	Outlet Type	Description	Brand	Mfr. Model	GRAY Item No.	IVORY Item No.	LIGHT ALMOND Item No.	ORANGE Item No.	RED Item No.	WHITE Item No.
Commercial											
15	5-15R	Standard Duplex	Smooth	Hubbell	IG15CR	—	**4ENH5**	—	**4ENH2**	—	**4ENH7**
15	5-15R	Standard Duplex	—	Bryant	CR15IG	—	—	—	**49YZ19**	—	—
15	5-15R	Decorator Duplex	—	Hubbell	IG15DR	**4ENJ1**	**4ENJ2**	—	—	—	**4ENJ4**
20	5-20R	Standard Duplex	Smooth	Hubbell	IG20CR	**4FTW5**	**4FTW6**	**4FTW7**	**4ENJ5**	—	**4FTW8**
20	5-20R	Decorator Duplex	—	Hubbell	IG20DR	—	**4FTX3**	—	—	—	**4FTX5**
Harsh and Heavy Use Industrial											
15	5-15R	Standard Duplex	—	Bryant	BRY5262G	**52HD11**	—	—	**49YZ03**	—	**52HD13**
15	5-15R	Standard Duplex	—	Bryant	BRY5262GI	—	**52HD12**	—	—	—	—
20	5-20R	Standard Duplex	—	Bryant	BRY5362IG	—	**52HD25**	—	**49YZ05**	—	—
Industrial											
15	5-15R	Standard Duplex	—	Hubbell	IG5262	**3D401**	—	—	**5A075**	**49YK86**	—
15	5-15R	Single	—	Hubbell	IG5261	—	—	—	**3D400**	—	—
15	5-15R	Single	—	Bryant	5261IG	—	—	—	**49YY68**	—	—
20	5-20R	Standard Duplex	—	Hubbell	IG5362	—	**3D406**	—	**5A083**	—	—
20	5-20R	Standard Duplex	Smooth	Hubbell	IG5352	**4FTY5**	**4FTY6**	**4FTY7**	**4FTY3**	—	**4FTY8**
20	5-20R	Single	—	Bryant	5361IG	—	—	—	**49YY72**	—	—
20	5-20R	Single	—	Hubbell	IG5361	—	—	—	**3D404**	—	—

USB Charger Tamper-Resistant Receptacles

- 125VAC
- USB charging 5.0A @ 5VDC

Devices combine USB DC power and tamper-resistant AC electrical power in a standard single-gang opening, so you can charge personal electronics and power appliances from the same receptacle. A green LED light indicates USB power is available. Decorator flush-fit design fits most single-gang plastic or metal junction boxes. Receptacles are impact- and chemical-resistant. Back and side wire for solid or stranded wire. UL and C-UL Listed.



No. 437K89



No. 437K70

Amps	NEMA Recep. Config.	Outlet Type	No. of USB Ports	USB Connector	BROWN Item No.	BLACK Item No.	GRAY Item No.	IVORY Item No.	WHITE Item No.	RED Item No.
Commercial										
15	5-15R	Decorator Duplex	2	Type A	**437K36**	**437K37**	**437K38**	**437K39**	**437K40**	—
	5-15R	Decorator Duplex	2	Type A and C	**437K63**	**437K61**	**437K60**	**437K58**	**437K59**	—
	5-15R	Decorator Duplex	2	Type C	**437K87**	**437K85**	**437K84**	**437K82**	**437K83**	**437K86**
20	5-20R	Decorator Duplex	2	Type A	**437K41**	**437K42**	**437K43**	**437K44**	**437K45**	—
	5-20R	Decorator Duplex	2	Type A and C	**437K69**	**437K67**	**437K66**	**437K64**	**437K65**	—
	5-20R	Decorator Duplex	2	Type C	**437K93**	**437K91**	**437K90**	**437K88**	**437K89**	**437K92**
Hospital Grade										
15	5-15R	Decorator Duplex	2	Type A and C	**437K75**	**437K73**	**437K72**	**437K70**	**437K71**	**437K74**
	5-15R	Decorator Duplex	2	Type A	**437K46**	**437K47**	**437K48**	**437K49**	**437K51**	**437K50**
	5-15R	Decorator Duplex	2	Type C	**437K99**	**437K97**	**437K96**	**437K94**	**437K95**	**437K98**
20	5-20R	Decorator Duplex	2	Type A	**437K52**	**437K53**	**437K54**	**437K55**	**437K57**	**437K56**
	5-20R	Decorator Duplex	2	Type A and C	**437K81**	**437K79**	**437K78**	**437K76**	**437K77**	**437K80**
	5-20R	Decorator Duplex	2	Type C	**437L06**	**437L04**	**437L03**	**437L01**	**437L02**	**437L05**

High-Ampere Receptacles

UL Listed and CSA Certified.

* See page 334 for NEMA plug configurations.



No. 5Z841



No. 5Z893

Amps	NEMA Recep. Config.*	No. of Poles	No. of Wires	Voltage	HUBBELL Mfr. Model	HUBBELL Item No.	BRYANT Mfr. Model	BRYANT Item No.
20	10-20R	3	3	250VAC	HBL6810	**5Z839**	9326	**49YY66**
	14-20R	3	4	125/250VAC	HBL8410	**6C630**	—	—
	15-20R	3	4	250VAC	HBL8420	**5C793**	—	—
30	5-30R	2	3	125VAC	HBL9308	**5Z904**	9530FR	**49YY94**
	6-30R	2	3	250VAC	HBL9330	**5Z895**	9630FR	**49YY96**
	10-30R	3	3	125/250VAC	HBL9350	**5Z841**	9303	**49YY64**
	14-30R	3	4	125/250VAC	HBL9430A	**5Z883**	9430FR	**49YY92**
	15-30R	3	4	250VAC	HBL8430A	**5Z889**	8430FR	**49YY88**
	TT-30R	2	3	125VAC	HBLTT30R	**54DY13**	—	—
50	5-50R	2	3	125VAC	HBL9360	**5Z896**	9550FR	**49YY95**
	6-50R	2	3	250VAC	HBL9367	**5Z897**	9650FR	**49YY97**
	10-50R	3	3	125/250VAC	HBL7962	**5Z840**	9306	**49YY65**
	14-50R	3	4	125/250VAC	HBL9450A	**5Z885**	9450FR	**49YY93**
	15-50R	3	4	250VAC	HBL8450A	**5Z891**	8450FR	**49YY89**
60	14-60R	3	4	250VAC	HBL9460A	**5Z887**	—	—
	15-60R	3	4	250VAC	HBL8460A	**5Z893**	8460FR	**49YY90**
	18-60R	4	4	120/208VAC	HBL7301A	**3D240**	8360FR	**49YY87**

Hospital Grade Receptacles

BRYANT® HUBBELL® Wiring Device-Kellems

These hospital grade receptacles are designed to withstand the severe conditions unique to hospital environments. Nickel-plated bypass contacts help increase contact pressure and lower operating temperature. Four-point grounding system provides redundant grounding for low resistance ground continuity, and thermoplastic polyester (RTP) back is tough and heat-resistant.

Note: To quality for the hospital grade designation and use of the green dot symbol, UL requires product performance to specific levels. These levels form an established baseline below which no manufacturer can fall and still carry a green dot.



No. 52HD38



No. 5A078

Amps	NEMA Recep. Config.	Outlet Type	Tamper Resistant	Weather Resistant	Wiring Method	Voltage	Special Features	Brand	Mfr. Model	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	ORANGE Item No.	RED Item No.	WHITE Item No.
Hospital Grade																
15	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	8200HB	—	—	—	52HC77	—	52HC79	—
	5-15R	Standard Duplex	Yes	No	Back and Side	125VAC	—	Bryant	8200HBTR	—	52HC80	—	52HC78	—	—	—
	5-15R	Single	No	No	Back and Side	125VAC	—	Bryant	8210	—	52HC32	—	49YY75	—	—	—
	5-15R	Decorator Duplex	No	No	Back and Side	125VAC	—	Bryant	9200	—	49YY63	52HC92	52HC93	—	52HC94	52HC95
20	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	8300HB	—	49YY76	49YY77	—	—	—	49YY84
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	BRY8300HB	—	—	—	49YY78	—	49YY81	—
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	Illuminated	Bryant	8300HBL	—	—	—	49YY79	—	49YY82	49YY85
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	9300IG	—	—	—	—	49YY91	—	—
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	8300L	—	—	—	—	—	30CZ68 †	—
	5-20R	Standard Duplex	Yes	No	Back and Side	125VAC	—	Bryant	8300HBTR	—	49YY83	—	52HC86	—	52HC87	52HC88
	5-20R	Standard Duplex	Yes	No	Back and Side	125VAC	—	Hubbell	8300TRA	—	—	—	—	—	30CZ73 †	—
	5-20R	Decorator Duplex	No	No	Back and Side	125VAC	—	Hubbell	2182	—	—	49YL02	52HF28	—	49YK59	49YK75
Heavy Use Hospital Grade																
15	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	BRY8200	—	49YZ06	52HD38	52HD41	—	52HD43	52HD46
	5-15R	Standard Duplex	No	No	Back and Side	125VAC	Illuminated	Hubbell	HBL8200L	—	—	2LBX2	3D283	—	3D284	2LBX3
	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	HBL8200H	—	—	4D035	4D036	—	4D038	4D040
	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	HBL8200	—	1XC01	5Z825	5A078	—	5Z823	3D285
	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	IG8200	—	—	—	—	5Z827	2LBY5	—
	5-15R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	BRY8200IG	—	—	—	—	49YZ07	—	—
	5-15R	Standard Duplex	Yes	No	Wire Lead	125VAC	—	Bryant	BRY8200TR	—	—	52HD40	—	—	52HD45	52HD48
	5-15R	Standard Duplex	Yes	No	Wire Lead	125VAC	—	Hubbell	HBL8200SGA	—	6C656	3D453	5Z829	—	3D454	3D455
	5-15R	Single	No	No	Back and Side	125VAC	—	Hubbell	HBL8210	—	—	2LBX4	3D286	—	4D045	2LBX5
20	5-20R	Standard Duplex	No	No	Back and Side	125VAC	Illuminated	Hubbell	HBL8300L	—	—	2LBX7	3D289	—	3D290	2LBX8
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	HBL8300H	—	4D056	4D057	4D058	—	4D059 *	3D288
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	BRY8300	—	49YZ09	52HD49	—	—	—	52HD52
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	IG8300	—	—	—	—	5Z828	2LBY6	—
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Bryant	BRY8300IG	—	—	—	—	49YZ10	—	—
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	HBL8300MRI	—	—	—	—	—	16R066	—
	5-20R	Standard Duplex	No	No	Back and Side	125VAC	—	Hubbell	HBL8300	—	1XC02	5Z826	5A084	—	5Z824	3D291
	5-20R	Standard Duplex	Yes	No	Wire Lead	125VAC	—	Hubbell	HBL8300SGA	—	4CV77	4CV78	4CV79	—	4CV80	4CV81
	5-20R	Single	No	No	Back and Side	125VAC	—	Hubbell	HBL8310	—	5Z822	2LBX9	3D292	—	3D293	4D065
	5-20R	Decorator Duplex	No	No	Back and Side	125VAC	—	Hubbell	IG2182	—	—	—	21VL16	—	—	—
	6-20R	Standard Duplex	No	No	Back and Side	250VAC	—	Hubbell	HBL8400	—	—	—	4D076	—	—	—
Heavy Use Hospital Grade—GFCI																
15	5-15R	Decorator Duplex	No	No	Back and Side	125VAC	—	Hubbell	GFRST82	39EA33	39EA36	39EA34	39EA35	—	39EA37	39EA38
	5-15R	Decorator Duplex	Yes	Yes	Back and Side	125VAC	—	Hubbell	GFTWRST82	39EA46	39EA49	39EA47	39EA48	—	39EA51	39EA52
	5-15R	Decorator Duplex	Yes	No	Back and Side	125VAC	Nightlight	Hubbell	GFTST82NL	45UG10	45UG13	45UG11	45UG12	—	45UG15	45UG16
	5-15R	Decorator Duplex	Yes	Yes	Back and Side	125VAC	—	Hubbell	GFTWRST82IG	—	45UF80	—	—	—	—	—
20	5-20R	Decorator Duplex	No	No	Back and Side	125VAC	—	Hubbell	GFRST83	39EA39	39EA42	39EA40	39EA41	—	39EA43	39EA44
	5-20R	Decorator Duplex	Yes	Yes	Back and Side	125VAC	—	Hubbell	GFTWRST83	39EA54	39EA57	39EA55	39EA56	—	39EA59	39EA60
	5-20R	Decorator Duplex	Yes	Yes	Back and Side	125VAC	—	Hubbell	GFTWRST83IG	—	45UF88	—	—	—	—	—
	5-20R	Decorator Duplex	Yes	No	Back and Side	125VAC	Nightlight	Hubbell	GFTST83NL	45UG18	45UG21	45UG19	45UG20	—	45UG23	45UG24

** Slender/compact version. † Includes green LED power indicators.*



No. 31A355



No. 31A336



No. 31A326

HUBBELL® Wiring Device-Kellems

SNAPConnect® II Wiring Devices

Suitable for use in commercial construction and in healthcare applications. Great for installations with potential for frequent device change-outs. Additional hospital grade versions are available; see Grainger.com®. UL Listed and CSA Certified.

Note: SNAPConnect® II is not compatible with SNAPConnect®. Please check Mfr. Model number before ordering.

SWITCHES

Feature an abuse-resistant thermoplastic rocker for heavy-duty applications. Design eliminates exposed energized parts. Stainless steel autoground clip. Illuminated Switches have light On with load Off. Pilot Light Switches have light On with load On. 120 to 277VAC.

RECEPTACLES

Abuse-resistant nylon for heavy-duty applications. SNAPConnect® feature eliminates exposed energized parts. Stainless steel autoground clip. 120VAC.

PIGTAILED CONNECTORS

1-phase, 2-pole, 3-wire clear polycarbonate pigtails are made for use with the devices listed, and are required for all switches and receptacles.

Amps AC	Switch Type	Switch Style	Mfr. Model	WHITE Item No.	RED Item No.	IVORY Item No.	GRAY Item No.	BROWN Item No.	BLACK Item No.
Wall Switch									
15	1-Pole	Toggle	SNAP1201_NA	31A352	31A413	31A350	31A412	31A411	31A410
	3-Way	Toggle	SNAP1203_NA	31A354	—	31A353	—	—	31A415
20	1-Pole	Toggle	SNAP1221_NA	31A357	31A422	31A355	31A414	31A421	31A420
	1-Pole	Rocker	SNAP2121_NA	—	—	31A468	—	—	31A465
Pilot Light Wall Switch									
15	1-Pole	Toggle	SNAP1201PL_NA	31A433	31A432	31A431	—	—	31A430
	1-Pole	Rocker	SNAP2101PL_NA	—	—	—	—	—	31A452
20	1-Pole	Toggle	SNAP1221PL_NA	31A447	31A446	31A445	—	—	31A444
	1-Pole	Rocker	SNAP2121PL_NA	31A479	—	31A477	—	—	—
Illuminated Wall Switch									
15	1-Pole	Toggle	SNAP1201IL_NA	31A362	31A429	31A361	—	—	31A428
	1-Pole	Rocker	SNAP2101IL_NA	31A451	—	—	—	—	31A448
	3-Way	Toggle	SNAP1203IL_NA	31A440	—	—	—	—	—
20	1-Pole	Toggle	SNAP1221IL_NA	31A460	31A443	31A442	—	—	31A441

Amps	NEMA Recep. Config.	Tamper Resistant	Weather Resistant	Mfr. Model	WHITE Item No.	RED Item No.	IVORY Item No.	BROWN Item No.	BLACK Item No.
Receptacles									
15	5-15R	No	No	SNAP5262A	31A338	—	31A336	—	—
Receptacles, Self Testing									
15	5-15R	No	No	GFRST15SNAP	39EA64	—	39EA61	39EA63	—
	5-15R	Yes	Yes	GFTWRST15SNAP	45UE35	—	—	45UE28	—
20	5-20R	No	No	GFRST20SNAP	39EA68	45UD74	39EA65	39EA67	45UD72
Receptacles									
20	5-20R	No	No	SNAP5362A	—	—	31A339	31A392	—
	5-20R	Yes	No	SNAP8300ITA	—	—	49YK63	—	—
Receptacles, Self Testing									
20	5-20R	Yes	Yes	GFTWRST20SNAP	—	—	45UE40	45UE36	—

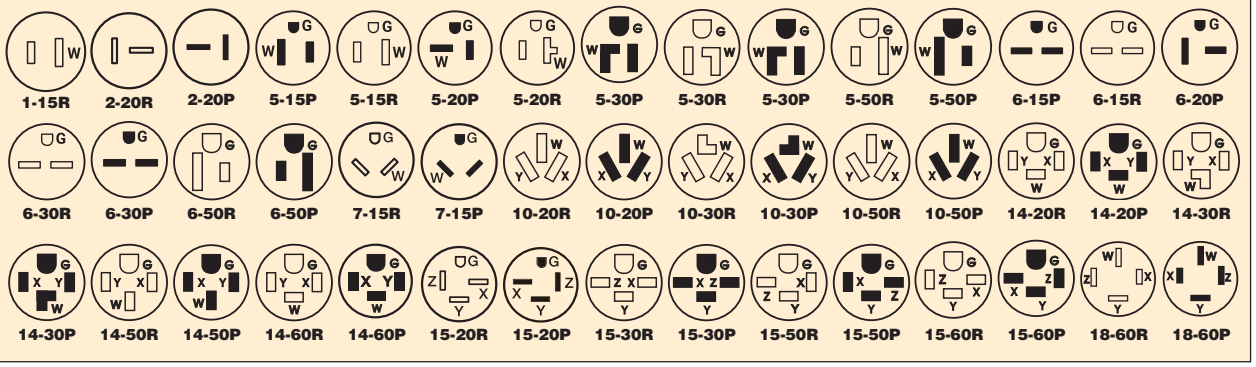
Description	Mfr. Model	SOLID WIRE Item No.	STRANDED WIRE Item No.
Pigtail Connectors for 15 or 20A Devices, 6" Leads			
Receptacles	SNAP_RA	31A326	31A327
Receptacles, Buy American Compliant	SNAP_RNA	31A380	31A381
Single Pole Switches	SNAPSP_NA	31A348	31A349
3-Way Switches	SNAP3W_NA	31A334	31A335
Single Pole Switch with Pilot Light	SNAPSPP_NA	31A408	31A409

Straight Blade NEMA Configurations



1-15P

The National Electrical Manufacturers Association (NEMA) standardized configurations for single-rated devices were created to minimize the possibility of unsafe mating of unmatched voltages and amperages. The standard also defines dimensional requirements to assist users in selection of the proper product for a particular need. Use the figures below to help identify the correct device for your specific application.




Elastogrip®
No. 1X977


Valise®
No. 1X997


Industrial
No. 49YY48


Insulgrip®
Angle
No. 6A665


Insulgrip®
No. 4A250


Hospital-Grade
No. 5A076


Marine-Rated
No. 3D197

BRYANT® HUBBELL® Wiring Device-Kellems

NEMA 15A and 20A Straight-Blade Plugs and Connectors

NEMA Plug Config.	Amps	Voltage	No. of Poles	No. of Wires	Color	Material	Brand	PLUG Mfr. Model	PLUG Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.
General Grade											
1-15	15	125VAC	2	2	Yellow	Nylon	Hubbell	HBL5866VY	**1X997**	HBL5869VY	**5Z882**
5-15	15	125VAC	2	3	Yellow	PVC	Hubbell	HBL1447	**5Z867**	HBL1547	**5Z872**
5-15	15	125VAC	2	3	Yellow	PVC	Hubbell	HBL14W47	**1X976** *	HBL15W47	**1X977** *
5-20	20	125VAC	2	3	Yellow	PVC	Hubbell	HBL1433	**3D008**	HBL1533	**3D010**
5-20	20	125VAC	2	3	Yellow	PVC	Hubbell	HBL14W33	**3D009** *	HBL15W33	**3D011** *
7-15	15	277VAC	2	3	Brown	Nylon	Hubbell	—	—	HBL5324	**3D889**
Commercial Grade											
5-15	15	125VAC	2	3	Black	Nylon	Hubbell	HBL5965VBLK	**3D224**	HBL5969VBLK	**3D225**
5-15	15	125VAC	2	3	Gray	Nylon	Hubbell	HBL5965VGY	**3D934**	HBL5969VGY	**2LBX1**
5-15	15	125VAC	2	3	Yellow	Nylon	Hubbell	HBL5965VY	**4A253**	HBL5969VY	**4A254**
5-20	20	125VAC	2	3	Black	Nylon	Hubbell	HBL5364VBK	**2LBW3**	HBL5369VBK	**2LBW4**
6-15	15	250VAC	2	3	Yellow	Nylon	Hubbell	HBL5666VY	**3D221**	HBL5669VY	**2LBW8**
Industrial Grade											
1-15	15	125VAC	2	2	Black/White	Nylon	Bryant	9754NS	**49YY48**	—	—
1-15	15	125VAC	2	2	Yellow	Nylon	Hubbell	HBL5865VY	**5Z881**	—	—
2-20	20	250VAC	2	2	Yellow	Nylon	Hubbell	HBL9758VY	**3D299**	—	—
5-15	15	125VAC	2	3	Black	Nylon	Hubbell	HBL5921	**3D222**	—	—
5-15	15	125VAC	2	3	Black	Thermoplastic	Bryant	5266B	**49YY31**	5269B	**49YY19**
5-15	15	125VAC	2	3	Black/White	Nylon	Hubbell	HBL5266CA	**6A665** †	—	—
5-15	15	125VAC	2	3	Black/White	Nylon	Hubbell	HBL5280C	**3D190** ‡	—	—
5-15	15	125VAC	2	3	Black/White	Nylon	Hubbell	HBL5266C	**4A250**	HBL5269C	**4A251**
5-15	15	125VAC	2	3	Black/White	Nylon	Bryant	BRY5266NP	**49YY49**	BRY5269NC	**49YY22**
5-15	15	125VAC	2	3	Yellow	Nylon	Bryant	BRY5965Y	**49YY55**	BRY5969Y	**49YY28**
5-15	15	125VAC	2	3	Yellow/White	Nylon/Polymer	Bryant	BRY5266NPCR	**49YY50**	—	—
5-20	20	125VAC	2	3	Black/White	Nylon	Hubbell	HBL5366C	**4A255**	HBL5369C	**4A256**
5-20	20	125VAC	2	3	Black/White	Nylon	Hubbell	HBL5366CA	**5Z866** †	—	—
5-20	20	125VAC	2	3	Black/White	Nylon	Bryant	BRY5366NP	**49YY51**	BRY5369NC	**49YY24**
5-20	20	125VAC	2	3	Yellow	Nylon	Hubbell	HBL5364VY	**3D207**	HBL5369VY	**3D208**
5-20	20	125VAC	2	3	Yellow/White	Nylon/Polymer	Bryant	BRY5366NPCR	**49YY52**	—	—
6-15	15	250VAC	2	3	Black/White	Nylon	Hubbell	HBL5666C	**1X995**	HBL5669C	**1X996**
6-15	15	250VAC	2	3	Black/White	Nylon	Hubbell	HBL5666CA	**5Z879** †	—	—
6-15	15	250VAC	2	3	Black/White	Nylon	Bryant	BRY5666NP	**49YY54**	BRY5669NC	**49YY27**
6-15	15	250VAC	2	3	Yellow	Nylon	Hubbell	HBL56CM66C	**2LBW9**	—	—
6-20	20	250VAC	2	3	Black/White	Nylon	Hubbell	HBL5466CA	**5Z880** †	—	—
6-20	20	250VAC	2	3	Black/White	Nylon	Hubbell	HBL5466C	**1X991**	HBL5469C	**1X992**
6-20	20	250VAC	2	3	Black/White	Nylon	Bryant	BRY5466NP	**49YY53**	BRY5469NC	**49YY26**
6-20	20	250VAC	2	3	Yellow	Nylon	Hubbell	HBL5464VY	**2LBW6**	HBL5469VY	**3D910**
7-15	15	277VAC	2	3	Black	Insulprene	Hubbell	HBL5929	**3D223**	—	—
10-2	20	125/250VAC	3	3	Black/White	Nylon	Bryant	9151N	**49YY40**	—	—
Hospital Grade											
5-15	15	125VAC	2	3	Black/White	Nylon	Hubbell	HBL8215C	**5A076**	HBL8219C	**5A077**
5-15	15	125VAC	2	3	Transparent	Nylon	Hubbell	HBL8215CT	**6C627**	HBL8219CT	**6C628**
5-15	15	125VAC	2	3	Transparent	Polycarbonate	Bryant	8266T	**49YY33**	8269T	**49YY20**
5-15	15	125VAC	2	3	White	Nylon	Hubbell	HBL8115V	**5Z871**	HBL8119V	**5Z874**
5-15	15	125VAC	2	3	White	Nylon	Bryant	BRY8266NP	**49YY56**	BRY8269NC	**49YY29**
5-15	15	125VAC	2	3	White	Polycarbonate	Hubbell	HBL8215CAT	**5Z869** †	—	—
5-15	15	125VAC	2	3	White	Polycarbonate	Bryant	8295T	**49YY34** †	—	—
5-20	20	125VAC	2	3	Black/White	Nylon	Hubbell	HBL8315C	**5Z868**	HBL8319C	**5Z873**
5-20	20	125VAC	2	3	Transparent	Nylon	Hubbell	HBL8315CT	**6C629**	HBL8319CT	**2LBY1**
5-20	20	125VAC	2	3	Transparent	Polycarbonate	Bryant	8366T	**49YY36**	8369T	**49YY21**
5-20	20	125VAC	2	3	White	Nylon	Hubbell	HBL8364V	**2LBY2**	—	—
5-20	20	125VAC	2	3	White	Nylon	Bryant	BRY8366NP	**49YY57**	BRY8369NC	**49YY30**
5-20	20	125VAC	2	3	White	Polycarbonate	Hubbell	HBL8315CAT	**5Z870** †	—	—
6-15	15	250VAC	2	3	White	Nylon	Hubbell	HBL8666V	**4D080**	—	—
6-20	20	250VAC	2	3	White	Nylon	Hubbell	HBL8464V	**2LBY3**	HBL8469V	**2LBY4**
Marine Grade											
5-15	15	125VAC	2	3	Yellow	Nylon	Hubbell	HBL52CM66C	**3D197**	HBL52CM69C	**3D198**
5-15	15	125VAC	2	3	Yellow/White	Nylon	Bryant	—	—	BRY5269NCSY	**49YY23**
5-20	20	125VAC	2	3	Yellow	Nylon	Hubbell	HBL53CM66C	**3D905**	HBL53CM69C	**3D906**
5-20	20	125VAC	2	3	Yellow/White	Nylon	Bryant	—	—	BRY5369NCSY	**49YY25**

** Watertight. † Angle plug. ‡ Locking feature.*

High-Ampere Plugs

UL Listed and CSA Certified.

Note: See page 334 for NEMA configurations.

HUBBELL® PLUGS

Heavy-duty cord clamps handle a wide range of cable sizes and hold conductors securely in place. Nylon bodies withstand severe abuse.

BRYANT® PLUGS

4-position angle plugs allow cord to enter from top, bottom, or either side and stay close to wall.

Durable wall construction protects critical wiring from abusive environments. Reinforced thermoplastic polyester provides high impact and heat resistance.

Amps	No. of Poles	No. of Wires	Voltage	NEMA Plug Config.	Brand	STRAIGHT PLUG Mfr. Model	STRAIGHT PLUG Item No.	ANGLE PLUG Mfr. Model	ANGLE PLUG Item No.
20	3	3	125/250VAC	10-20P	Hubbell	HBL9977C	**5Z842**	—	—
20	3	4	125/250VAC	14-20P	Hubbell	—	—	HBL8411C	**6C631**
20	3	4	250VAC	15-20P	Hubbell	—	—	HBL8421C	**5C794**
30	2	3	125VAC	5-30P	Hubbell	—	—	HBL9309	**5Z911**
30	2	3	125VAC	5-30P	Bryant	9530NP	**49YY44**	—	—
30	2	3	250VAC	6-30P	Hubbell	—	—	HBL9331	**5Z985**
30	2	3	250VAC	6-30P	Bryant	—	—	9630ANPB	**49YY46**
30	3	3	125/250VAC	10-30P	Hubbell	HBL9337C	**5Z843**	HBL9333	**4D086**
30	3	4	125/250VAC	14-30P	Bryant	—	—	9432ANPB	**49YY41**
30	3	4	125/250VAC	14-30P	Hubbell	HBL9431C	**5Z884**	HBL9432C	**5C790**
30	3	4	250VAC	15-30P	Bryant	—	—	8432ANPB	**49YY37**
30	3	4	250VAC	15-30P	Hubbell	HBL8431C	**5Z890**	HBL8432C	**5C795**
50	2	3	125VAC	5-50P	Hubbell	—	—	HBL9361	**6C118**
50	2	3	125VAC	5-50P	Bryant	—	—	9550ANPB	**49YY45**
50	2	3	250VAC	6-50P	Hubbell	—	—	HBL9368	**6C119**
50	2	3	250VAC	6-50P	Bryant	—	—	9650ANPB	**49YY47**
50	3	3	125/250VAC	10-50P	Bryant	7513NP	**49YY32**	—	—
50	3	3	125/250VAC	10-50P	Hubbell	HBL7513C	**5Z844**	HBL7977	**3D282**
50	3	4	125/250VAC	14-50P	Bryant	—	—	9452ANPB	**49YY42**
50	3	4	125/250VAC	14-50P	Hubbell	HBL9451C	**5Z886**	HBL9452C	**5C791**
50	3	4	250VAC	15-50P	Hubbell	HBL8451C	**5Z892**	HBL8452C	**5C796**
50	3	4	250VAC	15-50P	Bryant	—	—	8452ANPB	**49YY38**
60	3	4	125/250VAC	14-60P	Bryant	—	—	9462ANPB	**49YY43**
60	3	4	125/250VAC	14-60P	Hubbell	HBL9461C	**5Z888**	HBL9462C	**5C792**
60	3	4	250VAC	15-60P	Bryant	—	—	8462ANPB	**49YY39**
60	3	4	250VAC	15-60P	Hubbell	HBL8461C	**5Z894**	HBL8462C	**5C797**
60	4	4	120/208VAC	18-60P	Hubbell	HBL7303C	**3D242**	HBL7302C	**3D241**
60	4	4	120/208VAC	18-60P	Bryant	—	—	8362ANPB	**49YY35**



NEMA 5-30P
No. 49YY44



NEMA 10-30P
No. 5Z843



NEMA 10-50P
No. 49YY32



NEMA 5-30P
No. 5Z911



NEMA 15-50P
No. 5C796



NEMA 18-60P
No. 49YY35

Plug Adapters

Warning: Where adapters have different ratings on blade and slot ends, the following precautions must be exercised in their use:

1. Overcurrent protection is determined by blade end.
2. Adapter use should be limited to lowest rated end of adapter to prevent overheating.

Slot End Rating	NEMA Connector	Slot End Style	Blade End Rating	Plug Configuration	Blade End Style	Mfr. Model	Item No.	
3 Wire 15A 125V	—	Straight Blade	3 Wire 10A 250V 15A 125V	—	Twist-Lock®	9053A	**3D294**	
20A 125V	5-20R	Straight Blade	20A 125V	L5-20P	Locking	HBL2129	**3D021**	
15A 125V	L5-15R	Locking	15A 125V	5-15P	Straight Blade	HBL2271	**3D024**	
20A 125V	5-20R	Straight Blade	30A 125V	L5-30P	Locking	HBL31CM29	**3D106**	
10A 250V 15A 125V	Non-NEMA	Locking	15A 125V	5-15P	Straight Blade	9054A	**3D295**	
20A 125V	L5-20R	Locking	15A 125V	5-15P	Straight Blade	HBL21CM28	**3D536**	
20A 125V	5-20R	Straight Blade	20A 125V	L5-20P	Locking	HBL21CM29	**3D537**	
30A 125V	L5-30R	Locking	15A 125V	5-15P	Straight Blade	HBL31CM28	**1UKB5**	*
30A 125V	L5-30R	Twist-Lock®	15A 125V	NEMA 5-15P	Straight Blade	HBL61CM22	**1UKB6**	*†

Marine rated. † Straight adapter cord.

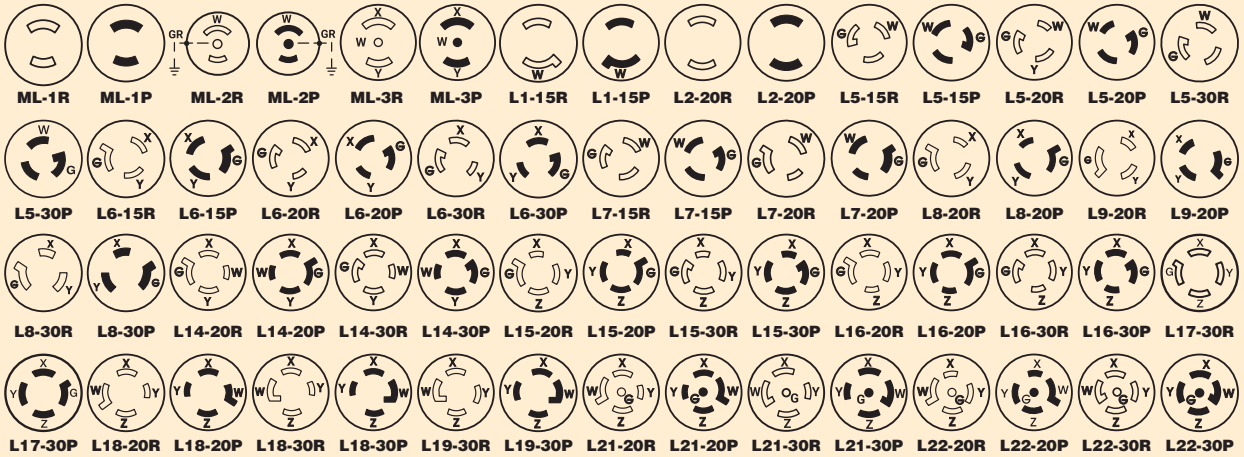


No. 3D294



No. 3D295

Locking Blade NEMA Configurations





Receptacle
No. 4A258



Connector
No. 4A260



Plug
No. 4A259



Flanged Inlet
No. 3D034



Flanged Receptacle
No. 3D035



Corrosion Resistant Plug
No. 3D564

NEMA Twist-Lock® Devices

Premium-quality industrial wiring devices feature a powerful cord grip, 1-pc. integrated dust shield, tough nylon housing, visible product identification, and roomy wiring chamber.

Note: See page 335 for NEMA configurations.
For boots, see page 337.

Amps	NEMA Plug Config.	No. of Poles	No. of Wires	HP	Voltage	SINGLE RECEPTACLE (BLACK) Mfr. Model	Item No.		CONNECTOR BODY (BLACK AND WHITE) Mfr. Model	Item No.		PLUG (BLACK AND WHITE) Mfr. Model	Item No.	
1-Phase														
15	L1-15	2	2	0.5	125VAC	HBL7535	**3D260**		HBL7506C	**3D258**		HBL7545C	**3D261**	
15	L5-15	2	3	0.5	125VAC	HBL4710	**5A072**		HBL4729C	**5A074**		HBL4720C	**5A073**	
15	L5-15	2	3	0.5	125VAC	—	—		HBL4729CBK	**1DJJ2**	**	HBL4720CBK	**1DJJ1**	**
15	L6-15	2	3	2.0	250VAC	HBL4560	**6C576**		HBL4579C	**6C579**		HBL4570C	**6C578**	
15	L7-15	2	3	2.0	277VAC	HBL4750	**5Z899**	*	—	—		—	—	
15	L7-15	2	3	2.0	277VAC	HBL4760	**6C122**		HBL4779C	**1X986**		HBL4770C	**1X985**	
20	L2-20	2	2	2.0	250VAC	HBL7210B	**3D239**		HBL7101C	**3D237**		HBL7102C	**3D238**	
20	L5-20	2	3	1.0	125VAC	HBL2310	**4A258**		HBL2313	**4A260**		HBL2311	**4A259**	
20	L5-20	2	3	1.0	125VAC	—	—		HBL2313BK	**1DJJ4**	**	HBL2311BK	**1DJJ3**	**
20	L5-20	2	3	1.0	125VAC	—	—		HBL23CM13	**3D046**	‡‡	HBL23CM11	**3D045**	‡‡
20	L6-20	2	3	2.0	250VAC	HBL2320	**5A080**		HBL2323	**5A082**		HBL2321	**5A081**	
20	L6-20	2	3	2.0	250VAC	—	—		HBL2323BK	**1DJJ8**	**	HBL2321BK	**1DJJ7**	**
20	L7-20	2	3	2.0	277VAC	HBL2330	**1X978**		HBL2333	**5Z901**		HBL2331	**1X979**	
20	L8-20	2	3	5.0	480VAC	HBL2340	**5Z902**		HBL2343	**6C124**		HBL2341	**6C123**	
20	L9-20	2	3	5.0	600VAC	HBL2350	**3D040**		HBL2353	**3D042**		HBL2351	**3D041**	
20	L14-20	3	4	2 Line to Line, 1 Line to Neutral	125/250VAC	HBL2410	**4A264**		HBL2413	**4A266**		HBL2411	**4A265**	
20	L14-20	3	4	2 Line to Line, 1 Line to Neutral	125/250VAC	—	—		HBL2413BK	**1DJK7**	**	HBL2411BK	**1DJK6**	**
30	L5-30	2	3	1.0	125VAC	HBL2610	**4A261**		HBL2613	**4A263**		HBL2611	**4A262**	
30	L5-30	2	3	1.0	125VAC	—	—		HBL2613BK	**1DJJ6**	**	HBL2611BK	**1DJJ5**	**
30	L5-30	2	3	1.0	125VAC	—	—		HBL26CM13	**3D089**	‡‡	HBL26CM11	**3D088**	‡‡
30	L6-30	2	3	2.0	250VAC	HBL2620	**5A086**		HBL2623	**5A088**		HBL2621	**5A087**	
30	L6-30	2	3	2.0	250VAC	—	—		HBL2623BK	**1DJK1**	**	HBL2621BK	**1DJJ9**	**
30	L8-30	2	3	5.0	480VAC	HBL2640	**6C546**		HBL2643	**6C548**		HBL2641	**6C547**	
30	L14-30	3	4	2.0	125/250VAC	HBL2710	**6A655**		HBL2713	**6A657**		HBL2711	**6A656**	
30	L14-30	3	4	2.0	125/250VAC	—	—		HBL2713BK	**1DJK9**	**	HBL2711BK	**1DJK8**	**
3-Phase														
20	L15-20	3	4	3.0	250VAC	HBL2420	**4A267**		HBL2423	**4A269**		HBL2421	**4A268**	
20	L16-20	3	4	5.0	480VAC	HBL2430	**6A661**		HBL2433	**6A663**		HBL2431	**6A662**	
20	L18-20	4	4	2.0	120/208VAC	HBL2440	**3D053**		HBL2443	**5C972**		HBL2441	**5C971**	
20	L21-20	4	5	2.0	120/208VAC	HBL2510	**1X980**		HBL2513	**5Z906**		HBL2511	**1X981**	
20	L21-20	4	5	2.0	120/208VAC	—	—		HBL2513FC	**1DNW1**	††	HBL2511FC	**1DNV9**	††
20	L21-20	4	5	2.0	120/208VAC	—	—		HBL2513BK	**1DJK3**	**	HBL2511BK	**1DJK2**	**
20	L22-20	4	5	10.0	277/480VAC	HBL2520	**6C153**		HBL2523	**6C545**		HBL2521	**6C544**	
30	L15-30	3	4	3.0	250VAC	HBL2720	**4A270**		HBL2723	**4A272**		HBL2721	**4A271**	
30	L16-30	3	4	10.0	480VAC	HBL2730	**6A658**		HBL2733	**6A660**		HBL2731	**6A659**	
30	L17-30	3	4	10.0	600VAC	HBL2740	**3D095**		HBL2743	**3D097**		HBL2741	**3D096**	
30	L18-30	4	4	3.0	120/208VAC	HBL2750	**3D099**		HBL2753	**5C970**		HBL2751	**5C969**	
30	L19-30	4	4	10.0	277/480VAC	HBL2760	**3D100**		HBL2763	**3D102**		HBL2761	**3D101**	
30	L21-30	4	5	3.0	120/208VAC	HBL2810	**1X982**		HBL2813	**1X984**		HBL2811	**1X983**	
30	L21-30	4	5	3.0	120/208VAC	—	—		HBL2813FC	**1DNW3**	††	HBL2811FC	**1DNW2**	††
30	L21-30	4	5	3.0	120/208VAC	—	—		HBL2813BK	**1DJK5**	**	HBL2811BK	**1DJK4**	**
30	L22-30	4	5	10.0	277/480VAC	HBL2820	**5Z908**		HBL2823	**6C549**		HBL2821	**5C789**	

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	FLANGED INLET (WHITE NYLON) Mfr. Model	Item No.		FLANGED RECEPTACLE (WHITE NYLON) Mfr. Model	Item No.		PLUG (YELLOW, MARINE RATED) Mfr. Model	Item No.	
1-Phase														
15	L5-15	2	3	0.5	125VAC	HBL4716C	**3D170**		HBL4715C	**3D168**		—	—	
15	L6-15	2	3	2.0	250VAC	HBL4586	**3D785**	†	HBL4585C	**3D153**		—	—	
20	L2-20	2	2	2.0	250VAC	—	—		HBL3226	**3D693**	†	—	—	
20	L5-20	2	3	1.0	125VAC	HBL2315	**3D034**		HBL2316	**3D035**		HBL23CM11	**3D045**	‡‡
20	L6-20	2	3	2.0	250VAC	HBL2325	**3D036**		HBL2326	**3D037**		HBL23CM21	**3D564**	‡‡
20	L7-20	2	3	2.0	277VAC	—	—		HBL2336	**3D038**		—	—	
20	L8-20	2	3	5.0	480VAC	—	—		HBL2346	**3D039**		—	—	
20	L9-20	2	3	5.0	600VAC	—	—		HBL2356	**3D043**		—	—	
20	L14-20	3	4	2 Line to Line, 1 Line to Neutral	125/250VAC	HBL2415	**3D047**		HBL2416	**3D048**		—	—	
30	L5-30	2	3	—	125VAC	HBL303NM	**4D351**	‡	—	—		—	—	
30	L5-30	2	3	—	125VAC	HBL303SS	**3D954**	#	—	—		—	—	
30	L5-30	2	3	1.0	125VAC	HBL2615	**3D072**		HBL2616	**3D073**		HBL26CM11	**3D088**	‡‡
30	L6-30	2	3	2.0	250VAC	HBL2625	**3D074**		HBL2626	**3D075**		HBL26CM21	**3D639**	‡‡
30	L8-30	2	3	5.0	480VAC	—	—		HBL2646	**3D632**		—	—	
30	L14-30	3	4	2.0	125/250VAC	HBL2715	**3D090**		HBL2716	**3D091**		—	—	
3-Phase														
20	L15-20	3	4	3.0	250VAC	HBL2425	**3D566**		HBL2426	**3D049**		—	—	
20	L16-20	3	4	5.0	480VAC	HBL2435	**3D572**		HBL2436	**3D052**		—	—	
20	L18-20	4	4	2.0	120/208VAC	—	—		HBL2446	**3D574**		—	—	
20	L21-20	4	5	2.0	120/208VAC	HBL2515	**5C995**		HBL2516	**5C996**		—	—	
30	L15-30	3	4	3.0	250VAC	HBL2725	**3D092**		HBL2726	**3D093**		—	—	
30	L16-30	3	4	10.0	480VAC	HBL2735	**3D641**		HBL2736	**3D094**		—	—	
30	L17-30	3	4	10.0	600VAC	HBL2745	**3D642**		HBL2746	**3D098**		—	—	
30	L18-30	4	4	3.0	120/208VAC	HBL2755	**3D643**		HBL2756	**3D644**		—	—	
30	L19-30	4	4	10.0	277/480VAC	HBL2765	**3D645**		HBL2766	**3D646**		—	—	
30	L21-30	4	5	3.0	120/208VAC	HBL2815	**3D103**		HBL2816	**3D104**		—	—	
30	L22-30	4	5	10.0	277/480VAC	HBL2825	**3D660**		HBL2826	**3D661**		—	—	

** Flush duplex receptacle, brown. † Stainless steel housing. ‡ Nonmetallic housing and cover, marine rated. # Stainless steel housing and cover, marine rated.*
*** All black. †† Designed for use with flat cable. ‡‡ Yellow, marine rated.*



No. 4D579

Insulgrip® Plug and Connector Twist-Lock® Latching Kit

Latch with locking slide provides double-locking feature for plug and connector bodies to prevent unintentional disconnection even under high vibration.

For Use With	Color	Mfr. Model	Item No.
All 3-Wire 20A or 30A Locking PlugsInsulgrip Plugs and Connectors	White	SK2	**6PFN8**
All 4- and 5-Wire 20A or 30A Twist-Lock Insulgrip Plugs and Connectors	White	SK3	**4D579**

Locking Devices

Note: For NEMA configurations, see page 335.

HUBBELL® Wiring Device-Kellems
BRYANT®

MIDGET DEVICES

Nylon plugs and connector bodies resist impact and abuse. 2-wire valise devices have bundling clamp screw terminals; 3-wire valise devices have insulation displacement (IDC) terminals. This allows easy and fast installation. Angle devices are low profile for use in limited spaces. Valise devices have offset jaw cord grips to prevent strain on terminals. UL Listed and CSA Certified.

HUBBELL NEMA DEVICES

Impact- and crush-resistant nylon construction withstands industrial chemicals and solvents. Plugs and connectors have 2-part offset jaw cord grips and totally insulated dead-front construction. Receptacles have a thermoplastic base, all-brass grounding system, and 1-pc. contact. UL Listed and CSA Certified.

HUBBELL ISOLATED GROUND RECEPTACLES

Insulation barrier construction isolates ground contacts from mounting strap for a noise-free ground. IG triangle on face of receptacle indicates isolated ground device. Green grounding screw is connected directly to grounding contacts. For use in accordance with NEC/NFPA Article 250-74, Exception 4. ANSI C73, NEMA WD-6. UL Listed to Standard 498 and CSA Certified, CSA C22.2 42.


No. 1XC00


No. 49YX75


No. 3D167


No. 3D268


No. 6C577


No. 3D055


No. 4D319


No. 3D265


No. 6C632

Amps	NEMA Config.	Voltage	PLUG Description	PLUG Mfr. Model	PLUG Item No.	CONNECTOR BODY Description	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	FLANGED RECEPTACLE Description	FLANGED RECEPTACLE Mfr. Model	FLANGED RECEPTACLE Item No.	FLANGED INLET Description	FLANGED INLET Mfr. Model	FLANGED INLET Item No.
Hubbell Midget Locking Devices														
15	ML-1	120VAC	Valise®	HBL7465V	**1X999**	Valise®	HBL7464V	**1X998**	SS Flange	HBL7468	**1XC00**	SS Flange	HBL7467	**6C616**
15	ML-2	120VAC	Valise®	HBL7594V	**6C146**	Valise®	HBL7593V	**6C145**	SS Flange	HBL7596	**5Z912**	SS Flange	HBL7595	**5C798**
15	ML-2	120VAC	Straight	HBL7594	**6C626**	Straight	HBL7593	**6C625**	Nylon Flange	HBL7596N	**3D271**	Nylon Flange	HBL7595N	**3D270**
15	ML-2	120VAC	Angle	HBL7570	**3D266**	Angle	HBL7571	**3D267**	—	—	—	—	—	—
15	ML-3	120/240VAC	Valise®	HBL7485V	**6C618**	Valise®	HBL7484V	**6C617**	SS Flange	HBL7487	**6C620**	—	—	—
15	ML-3	120/240VAC	Straight	HBL7485	**5Z909**	Straight	HBL7484	**5Z910**	—	—	—	—	—	—
Bryant Midget Locking Devices														
15	ML-1	125VAC	Triple Gripper®	7465N	**49YX69**	Triple Gripper®	7464N	**49YX68**	Nylon Flange	7468N	**49YX71**	Nylon Flange	7466N	**49YX70**
15	ML-2	125VAC	Triple Gripper®	7594NP	**49YX75**	Triple Gripper®	7593NC	**49YX74**	Nylon Flange	7596ER	**49YX77**	Nylon Flange	7595MB	**49YX76**
15	ML-3	125/250VAC	Triple Gripper®	7485NP	**49YX73**	Triple Gripper®	7484NC	**49YX72**	—	—	—	—	—	—

Description	Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	Color	Mfr. Model	Item No.
Hubbell Miscellaneous NEMA Locking Devices									
Duplex Receptacle	15	L5-15R	2	3	0.5	125VAC	Brown	HBL4700	**6A664**
Duplex, Combination 5-15R & L5-15R	15	L5-15R	2	3	0.5	125VAC	Brown	HBL4792	**3D171**
Flanged Receptacle, Metal	15	L5-15R	2	3	0.5	125VAC	Brown	HBL4715	**3D167**
Flanged Inlet, Metal	15	L5-15P	2	3	0.5	125VAC	Gray	HBL4716	**3D169**
Duplex Receptacle	15	L6-15R	2	3	2.0	250VAC	Brown	HBL4550	**6C575**
Single Receptacle, Panel Mount	15	L6-15R	2	3	2.0	250VAC	Black	HBL4563	**6C577**
Connector Body, Elastogrip	15	L5-15R	2	3	—	125VAC	Yellow	HBL2547	**3D060**
Connector Body, Watertight Elastogrip	15	L5-15R	2	3	—	125VAC	Yellow	HBL25W47	**3D071**
Plug, Elastogrip	15	L5-15P	2	3	0.5	125VAC	Yellow	HBL2447	**3D054**
Plug, Watertight Elastogrip	15	L5-15P	2	3	0.5	125VAC	Yellow	HBL24W47	**3D055**

Amps	No. of Poles	No. of Wires	Voltage	RECEPTACLE Mfr. Model	RECEPTACLE Description	RECEPTACLE Item No.	PLUG Mfr. Model	PLUG Item No.	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.
Hubbell Non-NEMA Locking Devices (Replacement Use Only)										
15/10	3	3	125/250VAC	HBL7580	Duplex	**3D268**	HBL7567C	**3D265**	HBL7565C	**3D264**
15/10	3	3	125/250VAC	HBL7582	Single	**3D269**	—	—	—	—
20	2	3	250VAC	HBL7310BG	Single	**3D243**	HBL9965GCB	**3D300**	—	—
20	3	3	125/250VAC	HBL7310B	Single	**6C610**	HBL9965C	**6C632**	HBL7314C	**6C611**
20	3	4	250VAC	HBL7410BG	Single	**3D246**	HBL7411GCB	**3D247**	HBL7413GCB	**3D248**
20	4	4	120/208VAC	HBL7410B	Single	**6C612**	HBL7411C	**6C613**	HBL7413C	**6C614**
20/10	4	5	250/600VAC	HBL3520	Single	**3D117**	HBL3521C	**3D118**	HBL3523C	**3D119**
30	3	3	125/250VAC	HBL3330	Flush	**3D109**	HBL3331C	**3D110**	HBL3333C	**3D111**
30	3	4	250VAC	HBL3430G	Single	**6C550**	HBL3431GCB	**6C551**	HBL3433GCB	**6C552**
30	4	4	120/208VAC	HBL3430	Single	**3D114**	HBL3431C	**3D115**	HBL3433C	**3D116**

Amps	No. of Poles	No. of Wires	Description	125VAC NEMA Config.	125VAC Mfr. Model	125VAC Item No.	240VAC NEMA Config.	240VAC Mfr. Model	240VAC Item No.	480VAC NEMA Config.	480VAC Mfr. Model	480VAC Item No.	120/208VAC NEMA Config.	120/208VAC Mfr. Model	120/208VAC Item No.	125/250VAC NEMA Config.	125/250VAC Mfr. Model	125/250VAC Item No.
Hubbell Isolated Ground Locking Receptacles, Orange																		
15	2	3	Duplex	L5-15R	IG4700A	**6C121**	L6-15R	IG4550A	**4D319**	—	—	—	—	—	—	—	—	—
20	2	3	Single	L5-20R	IG2310	**5Z900**	L6-20R	IG2320	**6C649**	L8-20R	IG2340	**2XTF3**	—	—	—	—	—	—
20	3	4	Single	—	—	—	L15-20R	IG2420	**2XTF4**	—	—	—	—	—	—	—	—	—
20	4	5	Single	—	—	—	—	—	—	—	—	—	L21-20R	IG2510	**2XTF5**	—	—	—
30	2	3	Single	L5-30R	IG2610	**5Z903**	L6-30R	IG2620	**6C650**	—	—	—	—	—	—	—	—	—
30	3	4	Single	—	—	—	L15-30R	IG2720	**2XTF7**	—	—	—	—	—	—	L14-30R	IG2710	**2XTF6**
30	4	5	Single	—	—	—	—	—	—	—	—	—	L21-30R	IG2810	**6C651**	—	—	—

Weatherproof Boots for Plugs and Connectors

Thermoplastic elastomer boots protect cord-connected devices from harmful UV rays and many chemicals. Graduated-step cord entry design accommodates a wide range of cord sizes. Closure plug, sold separately, slips over the connector boot to seal the front of the device when not plugged in.

Note: When selecting a boot for a connector that will be used with a flanged inlet, use a boot for a plug.

HUBBELL® Wiring Device-Kellems
BRYANT®

Description	FOR PLUGS Mfr. Model	FOR PLUGS Item No.	FOR CONNECTOR BODIES Mfr. Model	FOR CONNECTOR BODIES Item No.
Hubbell Wiring Device-Kellems				
Straight Blade, 15 and 20A Insulgrip	HBL6017	**3D226**	HBL6018	**3D227**
Twist-Lock®, 15A 2 and 3 Wire	HBL6023	**3D229**	HBL6024	**3D230**
Twist-Lock®, 20 and 30A, 3 Wire	HBL6031	**3D231**	HBL6032	**3D232**
Twist-Lock®, 20 and 30A, 4 and 5 Wire	HBL6035	**5C992**	HBL6036	**3D233**
Marine Rated, Straight Blade, 15 and 20A Insulgrip	HBL60CM17	**3D944**	HBL60CM18	**3D945**
Marine Rated, Twist-Lock®, 20 and 30A, 3 Wire	HBL60CM31	**3D949**	HBL60CM32	**3D950**
Bryant				
10A and 15A Locking Devices, 15A and 20A Straight Blade	5200BP	**49YY13**	5200BC	**49YY12**
20A and 30A Locking Devices	72002BP	**49YY15**	72002BC	**49YY14**
50A Locking Devices	7716B	**49YY16**	7717B	**49YY17**


No. 3D231



Plug
No. 49YX18



Connector
No. 49YW89



Receptacle
No. 49YX64

BRYANT®

Locking Plugs, Connectors, and Receptacles

Nylon devices are chemical and impact-resistant with a internal, self-centering Triple Gripper® cord grip with radius teeth design provide secure cord retention. Plugs and Connectors are polarized and moisture-resistant. Receptacles are single locking.

Amps	NEMA Config.	No. of Poles	No. of Wires	Voltage	LOCKING PLUG Mfr. Model	LOCKING PLUG Item No.	LOCKING CONNECTOR Mfr. Model	LOCKING CONNECTOR Item No.	LOCKING RECEPTACLE Mfr. Model	LOCKING RECEPTACLE Item No.
15	L5-15	2	3	125VAC	4721NP	**49YX18**	4732NC	**49YW89**	4710	**49YX46**
15	L6-15	2	3	250VAC	70615NP	**49YX25**	70615NC	**49YW96**	70615FR	**49YX53**
15	L7-15	2	3	277VAC	4770NP	**49YX19**	4779NC	**49YW90**	4760	**49YX47**
20	L5-20	2	3	125VAC	70520NP	**49YX22**	BRY70520NC	**49YW93**	70520FR	**49YX51**
20	L6-20	2	3	250VAC	70620NP	**49YX26**	70620NC	**49YW97**	70620FR	**49YX54**
20	L7-20	2	3	277VAC	70720NP	**49YX28**	70720NC	**49YW99**	70720FR	**49YX56**
20	L8-20	2	3	480VAC	70820NP	**49YX29**	70820NC	**49YX01**	70820FR	**49YX57**
20	L14-20	3	4	125/250VAC	71420NP	**49YX30**	71420NC	**49YX02**	71420FR	**49YX58**
20	L15-20	3	3	250VAC	—	—	71520NC	**49YX04**	71520FR	**49YX60**
20	L15-20	3	4	250VAC	71520NP	**49YX32**	—	—	—	—
20	L16-20	3	4	480VAC	BRY71620NP	**49YX34**	71620NC	**49YX06**	71620FR	**49YX62**
20	L21-20	4	5	120/208VAC	72120NP	**49YX36**	BRY72120NC	**49YX08**	72120FR	**49YX64**
20	L23-20	4	5	347/600VAC	72320NP	**49YX38**	72320NC	**49YX10**	72320FR	**49YX66**
30	L5-30	2	3	125VAC	70530NP	**49YX23**	70530NC	**49YW94**	70530FR	**49YX52**
30	L5-30	2	3	125VAC	70530NPCR	**49YX24** *	70530NCCR	**49YW95** *	—	—
30	L6-30	2	3	250VAC	70630NP	**49YX27**	70630NC	**49YW98**	70630FR	**49YX55**
30	L14-30	3	4	125/250VAC	71430NP	**49YX31**	71430NC	**49YX03**	71430FR	**49YX59**
30	L15-30	3	4	250VAC	71530NP	**49YX33**	71530NC	**49YX05**	71530FR	**49YX61**
30	L16-30	3	4	480VAC	71630NP	**49YX35**	71630NC	**49YX07**	71630FR	**49YX63**
30	L21-30	4	5	120/208VAC	72130NP	**49YX37**	72130NC	**49YX09**	BRY72130FR	**49YX65**
50	Non-NEMA	2	3	125VAC	6361CR	**49YX20**	6360CR	**49YW91**	6370CR	**49YX50**
50	Non-NEMA	2	3	600VAC/250VDC	3763	**49YX16**	3762	**49YW87**	3771	**49YX45**
50	Non-NEMA	3	4	125/250VAC	6365CR	**49YX21**	6364CR	**49YW92**	6369CR	**49YX49**
50	Non-NEMA	3	4	600VAC/250VDC	—	—	—	—	7379	**49YX48**
50	Non-NEMA	3	4	600VAC/250VDC	3765	**49YX17**	3764	**49YW88**	3769	**49YX44**

Corrosion resistant.



No.
1PGL5



No.
1PGN2

NEMA Locking Devices with Ground Continuity Monitoring

Pass & Seymour
legrand

Dual-LED indicators provide immediate visual identification of potential upstream mis-wire conditions. Nylon housing provides superior chemical and impact resistance, with an integral dust seal. Single-plane wiring for easy installation. Black and white color. UL and C-UL Listed. Meet FSUL Standards.

Amps	NEMA Plug Config.	No. of Poles	No. of Wires	Voltage	PLUGS Mfr. Model	PLUGS Item No.	CONNECTORS Mfr. Model	CONNECTORS Item No.
15	L7-15	2	3	277VAC	—	—	PSL715CGCM	**1PGN1**
20	L5-20	2	3	125VAC	—	—	L520CGCM	**1PGL8**
20	L14-20	3	4	125/250VAC	L1420PGCM	**1PGL5**	L1420CGCM	**1PGN2**
30	L6-30	2	3	250VAC	L630PGCM	**1PGL3**	L630CGCM	**1PGL9**
30	L14-30	3	4	125/250VAC	—	—	L1430CGCM	**1PGN3**



Male Inlet
No. 4CT67



Receptacle
No. 4CV51



Plug
No. 4CV53



Connector Body
No. 4CV54

Watertight Safety-Shroud Twist-Locks®

HUBBELL®
Wiring Device-Kellems

UL Type 4X-rated devices can prevent the ingress of water under hose-down conditions. Feature stainless steel hardware, closure caps, 1-pc. thermoplastic housing, and lockout-tagout hole.

Note: For Watertight Safety Shrouds, see page 342.

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	PLUG Mfr. Model	PLUG Item No.	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	MALE INLET Mfr. Model	MALE INLET Item No.
1-Phase													
20	L5-20	2	3	1.0	125VAC	HBL2310SW	**4CT63**	HBL2311SW	**4CT65**	HBL2313SW	**4CT66**	HBL2315SW	**4CT67**
20	L6-20	2	3	2.0	250VAC	HBL2320SW	**4CT71**	HBL2321SW	**4CT73**	HBL2323SW	**4CT74**	—	—
20	L7-20	2	3	2.0	277VAC	HBL2330SW	**4CT79**	HBL2331SW	**4CT81**	HBL2333SW	**4CT82**	—	—
20	L14-20	3	4	2 Line to Line, 1 Line to Neutral	125/250VAC	HBL2410SW	**4CT87**	HBL2411SW	**4CT89**	HBL2413SW	**4CT90**	—	—
30	L5-30	2	3	2.0	125VAC	HBL2610SW	**3HZ79**	HBL2611SW	**4CV21**	HBL2613SW	**4CV22**	HBL2615SW	**4CV23**
30	L6-30	2	3	2.0	250VAC	HBL2620SW	**4CV27**	HBL2621SW	**4CV29**	HBL2623SW	**4CV30**	—	—
30	L14-30	3	4	2.0	125/250VAC	HBL2710SW	**4CV35**	HBL2711SW	**4CV37**	HBL2713SW	**4CV38**	HBL2715SW	**4CV39**
3-Phase													
20	L15-20	3	4	3.0	250VAC	HBL2420SW	**4CT95**	HBL2421SW	**4CT97**	HBL2423SW	**4CT98**	—	—
20	L16-20	3	4	5.0	480VAC	HBL2430SW	**4CV04**	HBL2431SW	**4CV06**	HBL2433SW	**4CV07**	HBL2435SW	**4CV08**
20	L21-20	4	5	2.0	120/208VAC	HBL2510SW	**4CV12**	HBL2511SW	**4CV14**	HBL2513SW	**4CV15**	—	—
30	L15-30	3	4	3.0	250VAC	HBL2720SW	**4CV43**	HBL2721SW	**4CV45**	HBL2723SW	**4CV46**	HBL2725SW	**4CV47**
30	L16-30	3	4	10.0	480VAC	HBL2730SW	**4CV51**	HBL2731SW	**4CV53**	HBL2733SW	**4CV54**	—	—
30	L17-30	3	4	10.0	600VAC	HBL2740SW	**4CV59**	HBL2741SW	**4CV61**	HBL2743SW	**4CV62**	—	—
30	L21-30	4	5	3.0	120/208VAC	HBL2810SW	**4CV67**	HBL2811SW	**4CV69**	HBL2813SW	**4CV70**	HBL2815SW	**4CV71**



Receptacle
No. 3D324



Connector Body
No. 3D320



Plug
No. 3D321



Flanged Inlet
No. 4D206

50A Twist-Lock® Devices

HUBBELL®
Wiring Device-Kellems

Box terminal with Allen-head threaded lug permits high clamping pressure on conductors without damaging the threads. Receptacles have zinc-plated steel nosepieces that cannot be distorted to mate with the wrong device. Connectors and plugs have a super-tough, ribbed-nylon housing for superior impact/crush resistance and secure gripping. Stainless steel shroud on plugs protects plug blades from damage.

No. of Poles	No. of Wires	Voltage	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	PLUG Mfr. Model	PLUG Item No.	FLANGED INLET Mfr. Model	FLANGED INLET Item No.
Locking Devices										
2	3	125VAC	CS6370	**3D325**	CS6360C	**3D320**	CS6361C	**3D321**	—	—
2	3	250VAC	CS8269	**3D332**	CS8264C	**3D330**	CS8265C	**3D331**	—	—
2	3	480VAC	CS8469	**3D338**	CS8464C	**3D336**	CS8465C	**3D337**	—	—
2	3	600VAC/250VDC	HBL3771	**3D128**	HBL3762C	**3D123**	HBL3763C	**3D124**	—	—
3	4	125/250VAC	CS6369	**3D324**	CS6364C	**3D322**	CS6365C	**3D323**	CS6375	**3D326**
3	4	250VAC	CS8369	**3D335**	CS8364C	**3D333**	CS8365C	**3D334**	CS8375	**4D208**
3	4	480VAC	CS8169	**3D329**	CS8164C	**3D327**	CS8165C	**3D328**	CS8175	**4D206**
3	4	600VAC/250VDC	HBL7379	**3D245** ‡	HBL7764C	**3D274** ‡	HBL3765C	**3D126**	—	—
3	4	600VAC/250VDC	HBL3769	**3D127**	HBL3764C	**3D125**	HBL7765C	**3D275** ‡	—	—
Marine-Rated Locking Devices										
2	3	125VAC	HBL63CM70	**3D980**	HBL63CM60	**3D975**	HBL63CM61	**3D976**	HBL503NM	**4D352** *
3	4	125/250VAC	HBL63CM69	**3D979**	HBL63CM64	**3D977**	HBL63CM65	**3D978**	HBL504NM	**4D353**
3	4	125/250VAC	—	—	—	—	—	—	HBL504SS	**3D982** †

Description	Mfr. Model	Item No.
Accessories		
Plug Seal-Tite® Boot, Black, Elastomer Material Withstands UV Rays and Many Chemicals	HBL7716C	**3D272**
Connector Body Seal-Tite® Boot, Black, Elastomer Material Withstands UV Rays and Many Chemicals	HBL7717C	**3D273**
Receptacle Weatherproof Cast-Aluminum Cover for Single-Gang FS/FD Boxes	HBL7770	**3D276**
Receptacle Weatherproof Thermoplastic Gray Cover for Single-Gang FS/FD Boxes	HBL7774WO	**3D277**
Receptacle Weatherproof Thermoplastic Yellow Cover for Single-Gang FS/FD Boxes	HBL77CM74WO	**3D280**
Box Cover for 4" Square or 2-Gang	HBL50SC	**2EAV1**

Nonmetallic housing and cover. †Stainless steel housing and cover. ‡For replacement use only.

ERICSON® Since 1918 | HUBBELL® Wiring Device-Kellems

Watertight Devices

Corrosion-resistant devices are suitable for dust-laden, damp, or wet (IP66) environments, including temporary submersion (IP67). Rated NEMA 4, 4X, 6, and 6P. UL Listed and CSA Certified.

HUBBELL®

Plugs and connectors feature keyed interior for easy installation and high conductivity brass termination. Also designed with Gotcha® ring and collapsible bushing strain relief. The strain relief nut seals on the body, eliminating areas of debris collection, and provides impact resistance. Unique cone seal prevents dirt and debris from collecting at cable entrance and adjusts to various cable ranges. All stainless steel hardware and corrosion-resistant connection points.

ERICSON®

Designed with antimicrobial additives, these watertight devices provide continual, long-lasting protection against the growth of bacteria, mold, mildew, and fungi. These NSF/UL/CSA rated wiring devices can be used for new and existing installations, and are suitable for a wide range of applications.



Hubbell Connector No. 39AW86



Hubbell Receptacle & Cover No. 39AW91



Ericson Plug No. 40LM93

Amps	NEMA Config.	No. of Poles	No. of Wires	Voltage	Color	Brand	PLUG Mfr. Model	PLUG Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.	RECEPTACLE WITH COVER Mfr. Model	RECEPTACLE WITH COVER Item No.
Straight-Blade Devices												
15	5-15	2	3	125VAC	Yellow	Hubbell	HBL14W47A	**39AW17**	HBL15W47A	**39AW22**	HBL60W47	**39AW60**
15	5-15	2	3	125VAC	Black	Hubbell	HBL14W47BK	**39AW18**	HBL15W47BK	**39AW23**	—	—
15	5-15	2	3	125VAC	Yellow	Ericson	1510-PW6P-AM	**40LN02**	1610-CW6P-AM	**40LN05**	—	—
15	6-15	2	3	250VAC	Yellow	Hubbell	HBL14W49	**39AW20**	HBL15W49	**39AW25**	HBL60W49	**39AW62**
15	6-15	2	3	250VAC	Yellow	Ericson	1514-PW6P-AM	**40LN15**	1614-CW6P-AM	**40LN19**	—	—
20	5-20	2	3	125VAC	Yellow	Hubbell	HBL14W33A	**39AW16**	HBL15W33A	**39AW21**	HBL60W33	**39AW61**
20	5-20	2	3	125VAC	Yellow	Ericson	1512-PW6P-AM	**40LN18**	1612-CW6P-AM	**40LM99**	—	—
20	6-20	2	3	250VAC	Yellow	Hubbell	HBL14W48	**39AW19**	HBL15W48	**39AW24**	HBL60W48	**39AW63**
20	6-20	2	3	250VAC	Yellow	Ericson	1516-PW6P-AM	**40LM93**	1616-CW6P-AM	**40LN06**	—	—
Locking Devices												
15	L5-15	2	3	125VAC	Black	Hubbell	HBL24W47BK	**39AW92**	HBL25W47BK	**39AW93**	—	—
15	L5-15	2	3	125VAC	Yellow	Hubbell	HBL24W47A	**39AW26**	HBL25W47A	**39AW29**	HBL65W47	**39AW64**
15	L5-15	2	3	125VAC	Yellow	Ericson	1520-PW6P-AM	**40LM89**	1620-CW6P-AM	**40LM94**	—	—
15	L6-15	2	3	250VAC	Yellow	Hubbell	HBL24W49	**39AW27**	HBL25W49	**39AW30**	HBL65W49	**39AW65**
15	L6-15	2	3	250VAC	Yellow	Ericson	1522-PW6P-AM	**40LN22**	1622-CW6P-AM	**40LM85**	—	—
15	L7-15	2	3	277VAC	Yellow	Hubbell	HBL24W34	**39AW28**	HBL25W34	**39AW31**	HBL65W34	**39AW66**
15	L7-15	2	3	277VAC	Yellow	Ericson	1524-PW6P-AM	**40LN13**	1624-CW6P-AM	**40LM90**	—	—
20	L5-20	2	3	125VAC	Black	Hubbell	HBL26W47BK	**39AW95**	HBL27W47BK	**39AX03**	—	—
20	L5-20	2	3	125VAC	Yellow	Hubbell	HBL26W47	**39AW32**	HBL27W47	**39AW39**	HBL67W47	**39AW67**
20	L5-20	2	3	125VAC	Yellow	Ericson	2310-PW6P-AM	**40LN03**	2410-CW6P-AM	**40LM87**	—	—
20	L6-20	2	3	250VAC	Yellow	Hubbell	HBL26W48	**39AW33**	HBL27W48	**39AW40**	HBL67W48	**39AW68**
20	L6-20	2	3	250VAC	Yellow	Ericson	2312-PW6P-AM	**40LM86**	2412-CW6P-AM	**40LM97**	—	—
20	L7-20	2	3	277VAC	Yellow	Hubbell	HBL26W49	**39AW34**	HBL27W49	**39AW41**	HBL67W49	**39AW69**
20	L7-20	2	3	277VAC	Yellow	Ericson	2314-PW6P-AM	**40LN04**	2414-CW6P-AM	**40LM96**	—	—
20	L14-20	3	4	125/250VAC	Yellow	Hubbell	HBL26W74	**39AW35**	HBL27W74	**39AW42**	HBL67W74	**39AW73**
20	L14-20	3	4	125/250VAC	Yellow	Ericson	2320-PW6P-AM	**40LN12**	2420-CW6P-AM	**40LN11**	—	—
20	L15-20	3	4	250VAC	Black	Hubbell	HBL26W75BK	**39AW96**	HBL27W75BK	**39AX04**	—	—
20	L15-20	3	4	250VAC	Yellow	Hubbell	HBL26W75	**39AW36**	HBL27W75	**39AW43**	HBL67W75	**39AW74**
20	L15-20	3	4	250VAC	Yellow	Ericson	2322-PW6P-AM	**40LM91**	2422-CW6P-AM	**40LN20**	—	—
20	L16-20	3	4	480VAC	Yellow	Hubbell	HBL26W76	**39AW37**	HBL27W76	**39AW44**	HBL67W76	**39AW75**
20	L16-20	3	4	480VAC	Black	Hubbell	HBL26W76BK	**39AW38**	HBL27W76BK	**39AW45**	—	—
20	L16-20	3	4	480VAC	Yellow	Ericson	2324-PW6P-AM	**40LN08**	2424-CW6P-AM	**40LN17**	—	—
20	L21-20	4	5	120/208VAC	Black	Hubbell	HBL26W81BK	**39AW98**	HBL27W81BK	**39AX06**	—	—
20	L21-20	4	5	120/208VAC	Yellow	Hubbell	HBL26W81	**39AW97**	HBL27W81	**39AX05**	—	—
20	L22-20	4	5	277/480VAC	Yellow	Hubbell	HBL26W82	**39AW99**	HBL27W82	**39AX07**	—	—
20	L23-20	4	5	347/600VAC	Yellow	Hubbell	HBL26W83	**39AX01**	HBL27W83	**39AX08**	—	—
20	Non-NEMA*	3	3	125/250VAC	Yellow	Hubbell	HBL26W08	**39AW85**	HBL27W08	**39AW84**	HBL67W08	**39AW90**
20	Non-NEMA*	4	4	120/208VAC	Yellow	Hubbell	HBL26W09	**39AW94**	HBL27W09	**39AX02**	—	—
30	L5-30	2	3	125VAC	Black	Hubbell	—	—	HBL29W47BK	**39AX14**	—	—
30	L5-30	2	3	125VAC	Yellow	Hubbell	HBL28W47	**39AW46**	HBL29W47	**39AW53**	HBL69W47	**39AW70**
30	L5-30	2	3	125VAC	Yellow	Ericson	2510-PW6P-AM	**40LM88**	2610-CW6P-AM	**40LN07**	—	—
30	L6-30	2	3	250VAC	Yellow	Hubbell	HBL28W48	**39AW47**	HBL29W48	**39AW54**	HBL69W48	**39AW71**
30	L6-30	2	3	250VAC	Yellow	Ericson	2512-PW6P-AM	**40LM95**	2612-CW6P-AM	**40LN16**	—	—
30	L7-30	2	3	277VAC	Yellow	Hubbell	HBL28W49	**39AW48**	HBL29W49	**39AW55**	HBL69W49	**39AW72**
30	L7-30	2	3	277VAC	Yellow	Ericson	2514-PW6P-AM	**40LN10**	2614-CW6P-AM	**40LM82**	—	—
30	L14-30	3	4	125/250VAC	Yellow	Hubbell	HBL28W74	**39AW49**	HBL29W74	**39AW56**	HBL69W74	**39AW76**
30	L14-30	3	4	125/250VAC	Yellow	Ericson	2520-PW6P-AM	**40LN01**	2620-CW6P-AM	**40LM83**	—	—
30	L15-30	3	4	250VAC	Yellow	Hubbell	HBL28W75	**39AW50**	HBL29W75	**39AW57**	HBL69W75	**39AW77**
30	L15-30	3	4	250VAC	Yellow	Ericson	2522-PW6P-AM	**40LN14**	2622-CW6P-AM	**40LM84**	—	—
30	L16-30	3	4	480VAC	Yellow	Hubbell	HBL28W76	**39AW51**	HBL29W76	**39AW58**	HBL69W76	**39AW78**
30	L16-30	3	4	480VAC	Black	Hubbell	HBL28W76BK	**39AX09**	—	—	—	—
30	L16-30	3	4	480VAC	Yellow	Ericson	2524-PW6P-AM	**40LM92**	2624-CW6P-AM	**40LN09**	—	—
30	L17-30	3	4	600VAC	Yellow	Hubbell	HBL28W77	**39AW52**	HBL29W77	**39AW59**	HBL69W77	**39AW79**
30	L17-30	3	4	600VAC	Yellow	Ericson	2526-PW6P-AM	**40LN23**	2626-CW6P-AM	**40LM98**	—	—
30	L18-30	4	4	120/208VAC	Yellow	Hubbell	HBL28W78	**39AW89**	HBL29W78	**39AW88**	—	—
30	L18-30	4	4	120/208VAC	Yellow	Ericson	2530-PW6P-AM	**40LN24**	2630-CW6P-AM	**40LN21**	—	—
30	L21-30	4	5	120/208VAC	Yellow	Hubbell	HBL28W81	**39AX10**	HBL29W81	**39AX15**	—	—
30	L21-30	4	5	120/208VAC	Black	Hubbell	HBL28W81BK	**39AX11**	HBL29W81BK	**39AX16**	—	—
30	L22-30	4	5	277/480VAC	Yellow	Hubbell	HBL28W82	**39AX12**	HBL29W82	**39AX17**	—	—
30	L23-30	4	5	347/600VAC	Yellow	Hubbell	HBL28W83	**39AX13**	HBL29W83	**39AX18**	—	—
30	Non-NEMA*	3	3	125/250VAC	Yellow	Hubbell	HBL28W08	**39AW87**	HBL29W08	**39AW86**	HBL69W08	**39AW91**
30	Non-NEMA*	4	4	120/208VAC	Yellow	Hubbell	HBL28W09	**39AW83**	HBL29W09	**39AW82**	—	—

Not UL Listed, for replacement use only.


Receptacle
No. 3D017


Connector Body
No. 3D018


Plug
No. 3D019

HUBBELL® Wiring Device-Kellems

Hubbellock® Devices

Spring-loaded safety shutter ejects plug if not properly locked into connector/receptacle; shutter snuffs out arcs when devices are connected or disconnected under load. Key/detent ensures positive lock. UL Listed.

Amps	No. of Poles	No. of Wires	Voltage	RECEPTACLE Color	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	CONNECTOR BODY Color	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	PLUG Color	PLUG Mfr. Model	PLUG Item No.
Industrial Hubbellock												
20	2	3	125VAC	—	—	—	—	—	—	Black	HBL23035B	**3D553**
20/10/10	2	3	125VAC/DC, 250VDC, 480VAC	Black	HBL23000G	**3D026**	Gray	HBL23002GB	**3D029**	Gray	HBL23005GB	**3D031**
30	3	4	480VAC	Black	HBL20443	**3D017**	Red	HBL20444B	**3D018**	Red	HBL20445B	**3D019**
30/20	3	4	600VAC/250VDC	Black	HBL20403	**3D015**	Black	HBL21414B	**5C993**	Black	HBL21415B	**5C994**
30/20	4	5	600VAC/250VDC	Blue	HBL25403	**3D057** *†	Black	HBL25414B	**3D058** †	Black	HBL25415B	**3D059** †
60	3	4	600VAC	Black	HBL26410	**3D079**	Yellow	HBL26418	**3D080**	Yellow	HBL26419	**3D081**
60	4	5	600VAC	Blue	HBL26520	**2AXH9**	Blue	HBL26516	**3D083**	Blue	HBL26519	**3D084**
Hospital Hubbellock												
20	2	3	125VAC	—	—	—	—	—	—	Gray	HBL23004HG	**3D030** **
20	2	3	125VAC	Black	HBL23000HG	**3D027** #	Gray	HBL23001HGB	**3D028**	Gray	HBL23014HGB	**3D033**
50	2	3	250VAC	Black	HBL25503	**3D061**	—	—	—	Gray	HBL25525	**3D062**
Flanged Inlet												
30/20	3	4	600VAC/250VDC	—	—	—	—	—	—	Gray	HBL20418	**3D505** †
50	3	4	600VAC/250VDC	—	—	—	—	—	—	Gray	HBL3768	**3D734** ‡
50	3	4	600VAC/250VDC	—	—	—	—	—	—	Gray	HBL3775	**3D735**
Accessories and Other Hubbellock Devices												
Weatherproof Plate for No. 3D015 (for FS/FD box mounting)										Aluminum	HBL20405	**3D016**
Receptacle Box for Nos. 3D085 and 3D086 Only										Aluminum	HBL26401	**3D076**
Adapter Plate, For Use with Receptacle Box No. 3D076										Aluminum	HBL26402	**2AXJ1**
45° Adapter for Receptacle Box No. 3D076										Aluminum	HBL26404	**3D078**
Explosionproof Plug with Epoxy Kit, 2-Pole, 3-Wire, 20A, 125V, Hospital Rated										Gray	HBL24312	**3D051**

Includes FS/FD indoor cover. † 30A at 600VAC, 20A at 250VDC. ‡ Includes lift cover. ** Epoxy filled. # Weatherproof plate for FS/FD box mounting available, use No. 6C615, see page 310.


Connector
No. 49YX81


Plug
No. 49YX91


Receptacle
No. 49YY04

BRYANT®

IEC Nonmetallic Watertight Pin and Sleeve Devices

Feature a tough, nylon housing that protects against cracking, warping, corrosion, and chemical abrasion. Neoprene sealing glands provide a water-tight seal. Solid brass pins provide contact reliability and superior conductivity.

Amps	Color	Voltage	Phase	CONNECTOR Mfr. Model	CONNECTOR Item No.	PLUG Mfr. Model	PLUG Item No.	RECEPTACLE Mfr. Model	RECEPTACLE Item No.
2 Pole, 3 Wire									
20	Blue	250VAC	1	—	—	320P6W	**49YX88**	320R6W	**49YY01**
3 Pole, 4 Wire									
20	Red	480VAC	3	420C7W	**49YX81**	420P7W	**49YX92**	420R7W	**49YY05**
30	Blue	250VAC	3	—	—	430P9W	**49YX94**	—	—
30	Red	480VAC	3	430C7W	**49YX82**	430P7W	**49YX93**	430R7W	**49YY06**
60	Blue	250VAC	3	460C9W	**49YX85**	460P9W	**49YX97**	460R9W	**49YY08**
60	Red	480VAC	3	460C7W	**49YX84**	BRY460P7W	**49YX96**	—	—
60	Black	600VAC	3	460C5W	**49YX83**	460P5W	**49YX95**	—	—
100	Orange	125/250VAC	1	—	—	4100P12W	**49YX89**	4100R12W	**49YY02**
100	Blue	250VAC	3	BRY4100C9W	**49YX80**	4100P9W	**49YX91**	4100R9W	**49YY04**
100	Red	480VAC	3	4100C7W	**49YX79**	4100P7W	**49YX90**	4100R7W	**49YY03**
4 Pole, 5 Wire									
60	Blue	120/208VAC	3Y	560C9W	**49YX87**	560P9W	**49YX99**	560R9W	**49YY11**
100	Blue	120/208VAC	3Y	5100C9W	**49YX86**	5100P9W	**49YX98**	5100R9W	**49YY10**

HUBBELL® Wiring Device-Kellems


No. 2XB31


No. 2XB50


No. 2XB45


No. 2XB79

Hubbell Single-Pole Connectors

Nonmetallic retaining screw locks contacts in place so they don't move within the housing. Special screw thread prevents installation 180° out of rotation and requires fewer turns, reducing the chance of a conductive screw being substituted. Multiple guides ease cutting to correct cable size. Large raised alignment arrow eases mating of devices. 600VAC/250VDC. Rated NEMA 3R, 4X and 12K. UL and C-UL Listed.

Amps AC/DC	Cable Range	Terminal Connec.	FEMALE Black Item No.	FEMALE Blue Item No.	FEMALE Green Item No.	FEMALE Red Item No.	FEMALE White Item No.	MALE Black Item No.	MALE Blue Item No.	MALE Green Item No.	MALE Red Item No.	MALE White Item No.
Connectors												
300AC/DC	6 to 2/0	Double Set Screw	**2XB25**	**2XB26**	**2XB27**	**2XB28**	**2XB29**	**2XB30**	**2XB31**	**2XB32**	**2XB33**	**2XB34**
400AC/DC	2/0 to 4/0	Double Set Screw	**2XB35**	**2XB36**	**2XB37**	**2XB38**	**2XB39**	**2XB40**	**2XB41**	**2XB42**	**2XB43**	**2XB44**
Receptacles												
400AC/DC	4 to 4/0	Double Set Screw	**2XB50**	**2XB51**	**2XB52**	**2XB53**	**2XB59**	**2XB65**	**2XB66**	**2XB67**	**2XB68**	**2XB74**
400AC/DC	N/A	Threaded Stud	**2XB54**	**2XB55**	**2XB56**	**2XB57**	**2XB58**	**2XB69**	**2XB70**	**2XB71**	**2XB72**	**2XB73**
Accessories												
Protective Caps for Connectors			**2XB45**	**2XB46**	**2XB47**	**2XB48**	**2XB49**	**2XB60**	**2XB61**	**2XB62**	**2XB63**	**2XB64**
Snap Back Covers for Receptacles, Fits Male and Female			**2XB75**	**2XB76**	**2XB77**	**2XB78**	**2XB79**	**2XB75**	**2XB76**	**2XB77**	**2XB78**	**2XB79**









HUBBELL® Wiring Device-Kellems

IEC Nonmetallic Watertight Pin and Sleeve Devices

Non-metallic housings are non-conductive, color coded by voltage and impact- and corrosion-resistant. Patented mechanical cord grips secure both the cable jacket and internal conductors to help ensure stress free terminations. One piece all brass pins and multi-contact springs provide superior conductivity for long-term reliable connections. Individual neoprene glands provide IP67 watertight performance withstanding wet and harsh environments. Receptacle back boxes are also available; see page 342.

					RECEPTACLE		CONNECTOR		PLUG		INLET	
Amps	Color	Voltage	Phase	HP	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
2-Pole, 3-Wire												
20	Yellow	125VAC	1	—	HBL320R4W	**5Z930**	HBL320C4W	**5Z932**	HBL320P4W	**5Z931**	HBL320B4W	**1VCJ6**
20	Blue	250VAC	1	—	HBL320R6W	**5Z933**	HBL320C6W	**5Z935**	HBL320P6W	**5Z934**	HBL320B6W	**1VCJ7**
20	Red	480VAC	1	—	HBL320R7W	**1VCK1**	HBL320C7W	**1VCJ8**	HBL320P7W	**1VCJ9**	HBL320B7W	**3D689**
30	Yellow	125VAC	1	—	HBL330R4W	**1VCK4**	HBL330C4W	**1VCK2**	HBL330P4W	**1VCK3**	HBL330B4W	**3D694**
30	Blue	250VAC	1	2	HBL330R6W	**6C150**	HBL330C6W	**6C149**	HBL330P6W	**6C148**	HBL330B6W	**1VCK5**
30	Red	480VAC	1	—	HBL330R7W	**1VCK9**	HBL330C7W	**1VCK7**	HBL330P7W	**1VCK8**	HBL330B7W	**1VCK6**
60	Yellow	125VAC	1	—	HBL360R4W	**1VCL3**	HBL360C4W	**3D718**	HBL360P4W	**1VCL2**	HBL360B4W	**1VCL1**
60	Blue	250VAC	1	—	HBL360R6W	**3D122**	HBL360C6W	**3D120**	HBL360P6W	**3D121**	HBL360B6W	**1VCL4**
60	Red	480VAC	1	—	HBL360R7W	**1VCL8**	HBL360C7W	**1VCL6**	HBL360P7W	**1VCL7**	HBL360B7W	**1VCL5**
100	Yellow	125VAC	1	—	HBL3100R4W	**1VCJ2**	HBL3100C4W	**1VCH9**	HBL3100P4W	**1VCJ1**	HBL3100B4W	**1VCH8**
100	Blue	250VAC	1	15	HBL3100R6W	**5Z922**	HBL3100C6W	**1VCJ4**	HBL3100P6W	**5Z923**	HBL3100B6W	**1VCJ3**
3-Pole, 4-Wire												
20	Orange	125/250VAC	1	—	HBL420R12W	**3D139**	HBL420C12W	**6C151**	HBL420P12W	**6C152**	HBL420B12W	**1VCN4**
20	Blue	250VAC	3	2	HBL420R9W	**3D141**	HBL420C9W	**3D136**	HBL420P9W	**3D138**	HBL420B9W	**1VCN3**
20	Red	480VAC	3	5	HBL420R7W	**6C126**	HBL420C7W	**5Z936**	HBL420P7W	**6C125**	HBL420B7W	**3D755**
20	Black	600VAC	3	7½	HBL420R5W	**3D140**	HBL420C5W	**3D135**	HBL420P5W	**3D137**	HBL420B5W	**1VCN2**
30	Orange	125/250VAC	1	—	HBL430R12W	**3D151**	HBL430C12W	**3D144**	HBL430P12W	**3D149**	HBL430B12W	**1VCN5**
30	Blue	250VAC	3	3	HBL430R9W	**5Z937**	HBL430C9W	**5Z939**	HBL430P9W	**5Z938**	HBL430B9W	**1VCN7**
30	Red	480VAC	3	7½	HBL430R7W	**5Z940**	HBL430C7W	**5Z942**	HBL430P7W	**5Z941**	HBL430B7W	**3D765**
30	Black	600VAC	3	10	HBL430R5W	**3D152**	HBL430C5W	**3D145**	HBL430P5W	**3D150**	HBL430B5W	**1VCN6**
60	Orange	125/250VAC	1	—	HBL460R12W	**6C585**	HBL460C12W	**6C580**	HBL460P12W	**6C584**	HBL460B12W	**3D154**
60	Blue	250VAC	3	5	HBL460R9W	**5Z913**	HBL460C9W	**5Z915**	HBL460P9W	**5Z914**	HBL460B9W	**3D156**
60	Red	480VAC	3	10	HBL460R7W	**5Z916**	HBL460C7W	**5Z918**	HBL460P7W	**5Z917**	HBL460B7W	**1VCN8**
60	Black	600VAC	3	15	HBL460R5W	**3D164**	HBL460C5W	**3D157**	HBL460P5W	**3D162**	HBL460B5W	**3D794**
100	Orange	125/250VAC	1	—	HBL4100R12W	**6C557**	HBL4100C12W	**6C553**	HBL4100P12W	**6C555**	HBL4100B12W	**3D129**
100	Blue	250VAC	3	10	HBL4100R9W	**6C558**	HBL4100C9W	**6C554**	HBL4100P9W	**6C556**	HBL4100B9W	**3D130**
100	Red	480VAC	3	30	HBL4100R7W	**5Z925**	HBL4100C7W	**5Z927**	HBL4100P7W	**5Z926**	HBL4100B7W	**1VCN1**
100	Black	600VAC	3	30	HBL4100R5W	**3D133**	HBL4100C5W	**3D131**	HBL4100P5W	**3D132**	HBL4100B5W	**1VCL9**
4-Pole, 5-Wire												
20	Blue	120/208VAC	3Y	½	HBL520R9W	**5C778**	HBL520C9W	**5C780**	HBL520P9W	**5C779**	HBL520B9W	**1VCR3**
20	Red	277/480VAC	3Y	5	HBL520R7W	**3D179**	HBL520C7W	**1VCR2**	HBL520P7W	**3D178**	HBL520B7W	**1VCR1**
20	Black	347/600VAC	3Y	7½	HBL520R5W	**1VCP9**	HBL520C5W	**3D851**	HBL520P5W	**1VCP8**	HBL520B5W	**3D848**
30	Blue	120/208VAC	3Y	2	HBL530R9W	**1XC54**	HBL530C9W	**1VCR9**	HBL530P9W	**5C781**	HBL530B9W	**1VCR8**
30	Red	277/480VAC	3Y	7½	—	—	HBL530C7W	**1VCR7**	HBL530P7W	**6C601**	HBL530B7W	**1VCR6**
30	Black	347/600VAC	3Y	10	HBL530R5W	**3D888**	HBL530C5W	**3D881**	HBL530P5W	**1VCR5**	HBL530B5W	**1VCR4**
60	Blue	120/208VAC	3Y	3	HBL560R9W	**5Z919**	HBL560C9W	**5Z921**	HBL560P9W	**5Z920**	HBL560B9W	**3D214**
60	Red	277/480VAC	3Y	10	HBL560R7W	**3D217**	HBL560C7W	**1VCT6**	HBL560P7W	**3D216**	HBL560B7W	**1VCT5**
60	Black	347/600VAC	3Y	15	HBL560R5W	**1VCT4**	HBL560C5W	**1VCT2**	HBL560P5W	**1VCT3**	HBL560B5W	**1VCT1**
100	Blue	120/208VAC	3Y	10	HBL5100R9W	**5Z928**	HBL5100C9W	**6C129**	HBL5100P9W	**5Z929**	HBL5100B9W	**6C591**
100	Red	277/480VAC	3Y	30	HBL5100R7W	**1VCP6**	HBL5100C7W	**1VCP4**	HBL5100P7W	**1VCP5**	HBL5100B7W	**1VCP3**
100	Black	347/600VAC	3Y	30	HBL5100R5W	**1VCP2**	HBL5100C5W	**1VCN9**	HBL5100P5W	**1VCP1**	HBL5100B5W	**3D835**
125	Red	240/415VAC	3Y	—	HBL5100R6WP	**3D175**	HBL5100C6WP	**3D173**	—	—	HBL5100B6WP	**1VCP7**
Replacement Parts and Accessories												
Watertight Cover Assembly, For Use With 20A Female Watertight Pin And Sleeve Devices											CA420	**4D170**
Watertight Cover Assembly, For Use With 30A Female Watertight Pin And Sleeve Devices											CA3430	**4D169**
Watertight Cover Assembly, For Use With 60A Female Watertight Pin And Sleeve Devices											CA60	**4D173**
Liquid Tight Adapter, For Use With 30A 5 Wire and all 60A Pin And Sleeve Devices											SAC100	**4D549**

HUBBELL® Wiring Device-Kellems

IEC Switch Rated Pin and Sleeve Devices

The Advantage Series Switch-Rated Devices are IEC 60309-2 compatible devices that are approved as a disconnecting means for motor and branch circuits. These devices feature an oversized spring-loaded disconnect button, superior horsepower ratings and UL witnessed IP69k and UL Type 4X water ingress protection.





					CONNECTOR		RECEPTACLE	
Amps	Color	Voltage	Phase	HP	Mfr. Model	Item No.	Mfr. Model	Item No.
2-Pole, 3-Wire								
30	Yellow	125VAC	1	2	HBLS330C4W	**44ZD70**	HBLS330R4W	**44ZD80**
30	Blue	250VAC	1	5	HBLS330C6W	**44ZD83**	HBLS330R6W	**44ZD72**
30	Red	480VAC	1	10	HBLS330C7W	**44ZD60**	HBLS330R7W	**44ZD67**
32	Yellow	125VAC	1	2	HBLS332C4W	**44ZD62**	HBLS332R4W	**44ZD64**
3-Pole, 4-Wire								
30	Orange	125/250VAC	1	2	HBLS430C12W	**44ZD73**	HBLS430R12W	**44ZD61**
30	Blue	250VAC	3	10	HBLS430C9W	**44ZD78**	HBLS430R9W	**44ZD74**
30	Red	380/415VAC	3	7½	HBLS430C6W	**44ZD69**	HBLS430R6W	**44ZD59**
30	Red	480VAC	3	20	HBLS430C7W	**44ZD56**	HBLS430R7W	**44ZD58**
30	Black	600VAC	3	30	HBLS430C5W	**44ZD57**	HBLS430R5W	**44ZD71**
32	Red	380/440VAC	1	10	HBLS432C3W	**44ZD79**	HBLS432R3W	**44ZD76**
4-Pole, 5-Wire								
30	Blue	120/208VAC	3	10	HBLS530C9W	**44ZD66**	HBLS530R9W	**44ZD68**
30	Red	240/415VAC	3	7½	HBLS530C6W	**44ZD63**	HBLS530R6W	**44ZD81**
30	Red	277/480VAC	3	20	HBLS530C7W	**44ZD82**	HBLS530R7W	**44ZD65**
30	Black	347/600VAC	3	30	HBLS530C5W	**44ZD77**	HBLS530R5W	**44ZD75**



Connector
No. 5HJ20



Receptacle
No. 5HJ25



Plug
No. 5HJ23

Type 4X Pin and Sleeve Devices

Interchangeable with traditional all-metallic pin and sleeve devices built to UL 1686-C1. Insulgrip® pin and sleeve plugs and connectors have a metallic shroud to provide ground and protect pins, and a watertight, nonmetallic housing for corrosion resistance and electrical safety. Style I plugs and connectors ground through their metallic shroud, and receptacles are grounded via ground lug in the aluminum back box. Style II devices have a dual-ground safety feature using dedicated ground pin. Receptacle back boxes available; see this page. Gray color.

Amps	No. of Poles	No. of Wires	Voltage	Phase	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.	PLUG Mfr. Model	PLUG Item No.
Grounding Style 1										
30	3	4	600VAC/250VDC	3	HBL430RS1W	**5HJ24**	HBL430CS1W	**5HJ20**	HBL430PS1W	**5HJ22**
60	2	3	600VAC/250VDC	1	HBL360RS1W	**4TAD5**	HBL360CS1W	**4TAD2**	HBL360PS1W	**5HJ10**
60	3	4	600VAC/250VDC	3	HBL460RS1W	**5HJ30**	HBL460CS1W	**5HJ26**	HBL460PS1W	**5HJ28**
60	4	5	600VAC/250VDC	3	HBL560RS1W	**5HJ40**	HBL560CS1W	**5HJ38**	HBL560PS1W	**5HJ39**
100	3	4	600VAC/250VDC	3	HBL4100RS1W	**5HJ18**	HBL4100CS1W	**4TAD6**	HBL4100PS1W	**5HJ16**
100	4	5	600VAC/250VDC	3	HBL5100RS1W	**5HJ34**	HBL5100CS1W	**5HJ32**	HBL5100PS1W	**5HJ33**
Grounding Style 2										
30	3	4	600VAC/250VDC	3	HBL430RS2W	**5HJ25**	HBL430CS2W	**5HJ21**	HBL430PS2W	**5HJ23**
60	2	3	600VAC/250VDC	1	HBL360RS2W	**5HJ13**	HBL360CS2W	**4TAD3**	HBL360PS2W	**4TAD4**
60	3	4	600VAC/250VDC	3	HBL460RS2W	**5HJ31**	HBL460CS2W	**5HJ27**	HBL460PS2W	**5HJ29**
100	2	3	600VAC/250VDC	1	HBL3100RS2W	**5HJ01**	HBL3100CS2W	**4TAC9**	HBL3100PS2W	**4TAD1**
100	3	4	600VAC/250VDC	3	HBL4100RS2W	**5HJ19**	HBL4100CS2W	**5HJ15**	HBL4100PS2W	**5HJ17**



No.
4CT37



No.
5HJ41

Boxes for Pin and Sleeve Receptacles and Inlets

Nonmetallic models are high-grade thermoplastic; they resist chemicals, abuse, and UV rays, and meet NEMA Type 4X when installed with watertight conduit hub. Metallic models are cast-aluminum with gray enamel paint for corrosion resistance.

Amps	Item	Material	Angle	Hub	Mfr. Model	Item No.
For Standard, IEC 309 Series*						
20/30	Angle Back Box	Metallic	15°	¾"	BB201W	**6C127**
20/30	Angle Back Box	Metallic	15°	1"	BB301W	**6C128**
20/30	Angle Back Box	Nonmetallic	15°	1"	BB2030N	**4CT37**
20/30	Angle Adapter Box	Aluminum	—	—	AA2030PS	**3D301**
60	Angle Back Box	Metallic	15°	1¼"	BB601W	**6C130**
60	Angle Back Box	Nonmetallic	15°	1¼"	BB60N	**4CT38**
60/100	4-Way Angle Back Box	Metallic	15°	1½"	FW60/100	**6C640**
100/125	Angle Back Box	Metallic	15°	1½"	BB1001W	**6C131**
100/125	Angle Back Box	Nonmetallic	15°	1½"	BB100N	**4CT36**
For Killark®, VersaMate®, and Hubbell®, Insulgrip®, NEC Devices†						
30	Angle Back Box	Metallic	15°	¾"	MB301W	**5HJ41**
30	Angle Back Box	Metallic	15°	1"	MB302W	**5HJ42**
30	Back Box	Metallic	Straight	¾"	MB303W	**5HJ43**
60/100	4-Way Angle Back Box	Metallic	15°	1¼"	MB601002W	**5HJ45**
60/100	4-Way Angle Back Box	Metallic	15°	1½"	MB601003W	**5HJ46**
60/100	4-Way Angle Back Box	Metallic	15°	2"	MB601004W	**5HJ47**
60/100	Angle Back Box	Metallic	15°	1¼"	MB601006W	**5HJ48**
60/100	Angle Back Box	Metallic	15°	1½"	MB601007W	**5HJ49**
60	Angle Back Box	Metallic	15°	1"	MB601W	**5HJ51**
60	Angle Back Box	Metallic	15°	1¼"	MB602W	**5HJ52**
60	Back Box	Metallic	Straight	1"	MB604W	**5HJ54**

** See page 341 for IEC 309 Series. † See this page for NEC devices.*

Circuit-Lock Watertight Mechanical Interlock Devices

- Lockable in Off position
- UL Type 4X, 12K watertight enclosures
- Use appropriate Class J time-delay fuse (see page 180)

Space-saving, nonmetallic units incorporate disconnect and receptacle. Meets NEC requirement for a separate disconnect means within sight of motor loads. Arc protection: The devices cannot be turned on without the proper plug fully inserted, and with power On, the plug cannot be removed.



No. 3D147

Amps	No. of Poles	No. of Wires	HP	Voltage	Phase	Accepts Plug No.	Mfr. Model	Item No.
IEC 309 Series, Fused								
30	3	4	15	480VAC	3	5Z941	HBL430MIF7W	**3D147**
60	3	4	30	480VAC	3	5Z917	HBL460MIF7W	**3D160**
IEC 309 Series, Nonfused								
20	3	4	2	120/240VAC	1	6C152	HBL420MI12W	**1TJZ6**
20	3	4	5	250VAC	3	3D138	HBL420MI9W	**1TJZ4**
20	3	4	10	480VAC	3	6C125	HBL420MI7W	**1TJZ3**
20	3	4	10	600VAC	3	3D137	HBL420MI5W	**1TJZ5**
30	3	4	3	120/240VAC	3	3D149	HBL430MI12W	**21XL21**
30	3	4	7.5	250VAC	3	5Z938	HBL430MI9W	**6C574**
30	3	4	15	480VAC	3	5Z941	HBL430MI7W	**6C573**
30	3	4	20	600VAC	3	3D150	HBL430MI5W	**6C572**
30	4	5	15	480VAC	3	6C601	HBL530MI7W	**21XL25**
60	3	4	7.5	120/240VAC	3	6C584	HBL460MI12W	**21XL22**
60	3	4	15	250VAC	3	5Z914	HBL460MI9W	**2EAU9**
60	3	4	30	480VAC	3	5Z917	HBL460MI7W	**6C582**
60	3	4	40	600VAC	3	3D162	HBL460MI5W	**6C581**
60	4	5	15	120/208VAC	3	5Z920	HBL560MI9W	**6C609**
60	4	5	40	347/600VAC	3	—	HBL560MI5W	**6C608**
100	3	4	15	120/240VAC	1	6C555	HBL4100MI12W	**21XL19**
100	3	4	25	250VAC	3	6C556	HBL4100MI9W	**2EAU8**
100	3	4	50	480VAC	3	5Z926	HBL4100MI7W	**4CT27**
100	3	4	50	600VAC	3	3D132	HBL4100MI5W	**21XL20**
100	4	5	20	250VAC	3	5Z929	HBL5100MI9W	**21XL24**
Insulgrip UL1686 Series, Fused								
30	3	4	20	600VAC/250VDC	3	5HJ23	HBL430MIFS2W	**1TJZ7**
60	3	4	50	600VAC/250VDC	3	5HJ29	HBL460MIFS2W	**1TJZ8**
Insulgrip UL1686 Series, Nonfused								
30	3	4	20	600VAC/250VDC	3	5HJ23	HBL430MIS2W	**1TJZ9**
60	3	4	50	600VAC/250VDC	3	5HJ29	HBL460MIS2W	**1TKA1**



Plug
No. 4CV28



Angle Receptacle
No. 4CV48



Receptacle,
Surface
Mount
No. 4CV49



Receptacle,
Semi Flush
Mount
No. 4CV50

Safety-Shroud Twist-Locks®

Molded thermoplastic shrouds eliminate any possible user contact with energized or partially connected plugs, and keep blades from bending.

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	PLUG Mfr. Model	PLUG Item No.	ANGLE RECEPTACLE, FLUSH MOUNT Mfr. Model	ANGLE RECEPTACLE, FLUSH MOUNT Item No.	RECEPTACLE, SURFACE MOUNT Mfr. Model	RECEPTACLE, SURFACE MOUNT Item No.	RECEPTACLE, SEMI FLUSH MOUNT Mfr. Model	RECEPTACLE, SEMI FLUSH MOUNT Item No.
1-Phase													
20	L5-20	2	3	1.0	125VAC	HBL2311S	**4CT64**	HBL2310AR	**4CT60**	HBL2310SR	**4CT61**	HBL2310SR2	**4CT62**
20	L6-20	2	3	2.0	250VAC	HBL2321S	**4CT72**	HBL2320AR	**4CT68**	HBL2320SR	**4CT69**	HBL2320SR2	**4CT70**
20	L14-20	3	4	2 Line to Line, 1 Line to Neutral	125/250VAC	HBL2411S	**4CT88**	—	—	HBL2410SR	**4CT85**	—	—
30	L5-30	2	3	1.0	125VAC	HBL2611S	**4CV20**	HBL2610AR	**4CV17**	HBL2610SR	**4CV18**	—	—
30	L6-30	2	3	2.0	250VAC	HBL2621S	**4CV28**	HBL2620AR	**4CV24**	HBL2620SR	**4CV25**	HBL2620SR2	**4CV26**
30	L14-30	3	4	2.0	125/250VAC	HBL2711S	**4CV36**	HBL2710AR	**4CV32**	HBL2710SR	**4CV33**	HBL2710SR2	**4CV34**
3-Phase													
20	L15-20	3	4	3.0	250VAC	HBL2421S	**4CT96**	HBL2420AR	**4CT92**	HBL2420SR	**4CT93**	HBL2420SR2	**4CT94**
20	L16-20	3	4	5.0	480VAC	HBL2431S	**4CV05**	HBL2430AR	**4CV01**	HBL2430SR	**4CV02**	HBL2430SR2	**4CV03**
20	L21-20	4	5	2.0	120/208VAC	HBL2511S	**4CV13**	HBL2510AR	**4CV09**	HBL2510SR	**4CV10**	—	—
30	L15-30	3	4	3.0	250VAC	HBL2721S	**4CV44**	HBL2720AR	**4CV40**	HBL2720SR	**4CV41**	HBL2720SR2	**4CV42**
30	L16-30	3	4	10.0	480VAC	HBL2731S	**4CV52**	HBL2730AR	**4CV48**	HBL2730SR	**4CV49**	HBL2730SR2	**4CV50**
30	L17-30	3	4	10.0	600VAC	HBL2741S	**4CV60**	—	—	HBL2740SR	**4CV57**	HBL2740SR2	**4CV58**
30	L21-30	4	5	3.0	120/208VAC	HBL2811S	**4CV68**	HBL2810AR	**4CV64**	HBL2810SR	**4CV65**	—	—

Southwire®

Building Wire

- PVC insulation with nylon jacket
- Rated for 600V

This wire carries electrical current from a power source to a device in a building, such as an outlet or light fixture. Building wire is typically used to run new circuits or extend old circuits inside walls and ceilings in commercial, industrial, and residential properties. **Solid** conductors are tougher and more rigid than stranded. **Stranded** conductors are more flexible than solid and can withstand vibrations and flexing. **THHN** (thermoplastic high-heat-resistant nylon) building wire is a coated wire typically run through conduit or cable trays. **XHHW** (cross-linked polyethylene high-heat-resistant water-resistant) building wire is a coated wire typically run through raceways.



No. 3ZK49

Wire Size	Jacket Color	L	Item No.
THHN Building Wire			
Stranded			
14 AWG	Beige	500 ft.	**4WZD1**
14 AWG	Beige	2500 ft.	**4WZE4**
14 AWG	Black	50 ft.	**5FZY1**
14 AWG	Black	100 ft.	**4WZC4**
14 AWG	Black	500 ft.	**6X794**
14 AWG	Black	2500 ft.	**4WZD2**
14 AWG	Blue	500 ft.	**6X797**
14 AWG	Blue	2500 ft.	**4WZD6**
14 AWG	Brown	500 ft.	**5C982**
14 AWG	Brown	2500 ft.	**4WZD8**
14 AWG	Gray	500 ft.	**5C984**
14 AWG	Gray	2500 ft.	**4WZE1**
14 AWG	Green	50 ft.	**5FZY4**
14 AWG	Green	100 ft.	**4WZC7**
14 AWG	Green	500 ft.	**2W407**
14 AWG	Green	2500 ft.	**4WZD7**
14 AWG	Orange	500 ft.	**5C983**
14 AWG	Orange	2500 ft.	**4WZD9**
14 AWG	Pink	500 ft.	**4WZC8**
14 AWG	Pink	2500 ft.	**4WZE2**
14 AWG	Purple	500 ft.	**4WZC9**
14 AWG	Purple	2500 ft.	**4WZE3**
14 AWG	Red	50 ft.	**5FZY3**
14 AWG	Red	100 ft.	**4WZC6**
14 AWG	Red	500 ft.	**6X795**
14 AWG	Red	2500 ft.	**4WZD4**
14 AWG	White	50 ft.	**5FZY2**
14 AWG	White	100 ft.	**4WZC5**
14 AWG	White	500 ft.	**6X793**
14 AWG	White	2500 ft.	**4WZD3**
14 AWG	Yellow	500 ft.	**6X796**
14 AWG	Yellow	2500 ft.	**4WZD5**
12 AWG	Beige	500 ft.	**4WZF2**
12 AWG	Beige	2500 ft.	**4WZG5**
12 AWG	Black	50 ft.	**5FZY5**
12 AWG	Black	100 ft.	**4WZE5**
12 AWG	Black	500 ft.	**2W285**
12 AWG	Black	1000 ft.	**38NF51**
12 AWG	Black	2500 ft.	**4WZF3**
12 AWG	Black/Green/White	350 ft.	**38NF44** *
12 AWG	Black/White	2000 ft.	**55CX59**
12 AWG	Blue	500 ft.	**4W014**
12 AWG	Blue	1000 ft.	**55CX58**
12 AWG	Blue	2500 ft.	**4WZF7**
12 AWG	Blue/White	2000 ft.	**55CX61**
12 AWG	Brown	500 ft.	**5C985**
12 AWG	Brown	1000 ft.	**55CX54**
12 AWG	Brown	2500 ft.	**4WZF9**
12 AWG	Gray	500 ft.	**5C987**
12 AWG	Gray	1000 ft.	**55CX57**
12 AWG	Gray	2500 ft.	**4WZG2**
12 AWG	Green	50 ft.	**5FZY8**
12 AWG	Green	100 ft.	**4WZE8**
12 AWG	Green	500 ft.	**2W406**
12 AWG	Green	1000 ft.	**38NF50**
12 AWG	Green	2500 ft.	**4WZF8**
12 AWG	Green/Yellow	2000 ft.	**55CX62**
12 AWG	Orange	500 ft.	**5C986**
12 AWG	Orange	1000 ft.	**55CX55**
12 AWG	Orange	2000 ft.	**55CX63**
12 AWG	Orange	2500 ft.	**4WZG1**
12 AWG	Pink	500 ft.	**4WZE9**
12 AWG	Pink	2000 ft.	**55CX66**
12 AWG	Pink	2500 ft.	**4WZG3**
12 AWG	Purple	500 ft.	**4WZF1**
12 AWG	Purple	2000 ft.	**55CX65**
12 AWG	Purple	2500 ft.	**4WZG4**
12 AWG	Red	50 ft.	**5FZY7**
12 AWG	Red	100 ft.	**4WZE7**
12 AWG	Red	500 ft.	**2W286**
12 AWG	Red	1000 ft.	**38NF49**
12 AWG	Red	2500 ft.	**4WZF5**
12 AWG	Red/White	2000 ft.	**55CX60**
12 AWG	White	50 ft.	**5FZY6**
12 AWG	White	100 ft.	**4WZE6**
12 AWG	White	500 ft.	**2W284**
12 AWG	White	1000 ft.	**38NF52**
12 AWG	White	2500 ft.	**4WZF4**
12 AWG	Yellow	500 ft.	**4W013**
12 AWG	Yellow	1000 ft.	**55CX56**
12 AWG	Yellow	2000 ft.	**55CX64**
12 AWG	Yellow	2500 ft.	**4WZF6**
10 AWG	Black	50 ft.	**31HK02**
10 AWG	Black	100 ft.	**4WZH1**
10 AWG	Black	500 ft.	**4W008**
10 AWG	Black	1250 ft.	**55CX67**
10 AWG	Black	2500 ft.	**4WZH8**
10 AWG	Black/White	1250 ft.	**55CX71**
10 AWG	Blue	500 ft.	**4W011**
10 AWG	Blue	1250 ft.	**55CX69**
10 AWG	Blue	2500 ft.	**4WZJ3**
10 AWG	Blue/White	1250 ft.	**55CX72**
10 AWG	Brown	500 ft.	**5C988**
10 AWG	Brown	2500 ft.	**4WZJ5**
10 AWG	Gray	500 ft.	**5C990**
10 AWG	Gray	2500 ft.	**4WZJ7**
10 AWG	Green	50 ft.	**31HK04**
10 AWG	Green	100 ft.	**4WZH4**
10 AWG	Green	500 ft.	**4W012**
10 AWG	Green	1250 ft.	**55CX73**
10 AWG	Green	2500 ft.	**4WZJ4**
10 AWG	Green/Yellow	1250 ft.	**55CX74**
10 AWG	Orange	500 ft.	**5C989**
10 AWG	Orange	1250 ft.	**55CX75**
10 AWG	Orange	2500 ft.	**4WZJ6**
10 AWG	Pink	500 ft.	**4WZH5**
10 AWG	Pink	1250 ft.	**55CX78**
10 AWG	Pink	2500 ft.	**4WZJ8**
10 AWG	Purple	500 ft.	**4WZH6**
10 AWG	Purple	1250 ft.	**55CX77**
10 AWG	Purple	2500 ft.	**4WZJ9**
10 AWG	Red	50 ft.	**31HK05**
10 AWG	Red	100 ft.	**4WZH3**
10 AWG	Red	500 ft.	**4W009**
10 AWG	Red	1250 ft.	**55CX68**
10 AWG	Red	2500 ft.	**4WZJ1**
10 AWG	White	50 ft.	**31HK03**
10 AWG	White	100 ft.	**4WZH2**
10 AWG	White	500 ft.	**4W007**
10 AWG	White	1250 ft.	**55CX70**
10 AWG	White	2500 ft.	**4WZH9**
10 AWG	Yellow	500 ft.	**4W010**
10 AWG	Yellow	1250 ft.	**55CX76**
10 AWG	Yellow	2500 ft.	**4WZJ2**
8 AWG	Black	100 ft.	**4WZK2**
8 AWG	Black	500 ft.	**3ZK50**
8 AWG	Blue	500 ft.	**4WZK8**
8 AWG	Brown	500 ft.	**4WZL1**
8 AWG	Gray	500 ft.	**4WZL3**
8 AWG	Green	100 ft.	**55CX52**
8 AWG	Green	500 ft.	**4WZK9**
8 AWG	Orange	500 ft.	**4WZL2**
8 AWG	Purple	500 ft.	**4WZL4**
8 AWG	Red	100 ft.	**4WZK4**
8 AWG	Red	500 ft.	**4WZK6**
8 AWG	White	100 ft.	**4WZK3**
8 AWG	White	500 ft.	**4WZK5**
8 AWG	Yellow	500 ft.	**4WZK7**
6 AWG	Black	100 ft.	**4WZL5**
6 AWG	Black	500 ft.	**3ZK49**
6 AWG	Blue	500 ft.	**4WZN2**
6 AWG	Brown	500 ft.	**4WZN4**
6 AWG	Gray	500 ft.	**4WZN6**
6 AWG	Green	100 ft.	**55CX53**
6 AWG	Green	500 ft.	**4WZN3**
6 AWG	Orange	500 ft.	**4WZN5**
6 AWG	Purple	500 ft.	**4WZN7**
6 AWG	Red	100 ft.	**4WZL7**
6 AWG	Red	500 ft.	**4WZL9**
6 AWG	White	100 ft.	**4WZL6**
6 AWG	White	500 ft.	**4WZL8**
6 AWG	Yellow	500 ft.	**4WZN1**
4 AWG	Black	500 ft.	**5ZG91**
4 AWG	Blue	500 ft.	**4WZP2**
4 AWG	Brown	500 ft.	**4WZP4**
4 AWG	Green	500 ft.	**4WZP3**
4 AWG	Orange	500 ft.	**4WZP5**
4 AWG	Red	500 ft.	**4WZN9**
4 AWG	White	500 ft.	**4WZN8**
4 AWG	Yellow	500 ft.	**4WZP1**
3 AWG	Black	500 ft.	**5ZG90**
3 AWG	Blue	500 ft.	**4WZP8**
3 AWG	Green	500 ft.	**4WZP9**
3 AWG	Red	500 ft.	**4WZP7**
3 AWG	White	500 ft.	**4WZP6**
2 AWG	Black	500 ft.	**5ZG89**
2 AWG	Blue	500 ft.	**4WZR3**
2 AWG	Brown	500 ft.	**4WZR5**
2 AWG	Green	500 ft.	**4WZR4**
2 AWG	Red	500 ft.	**4WZR2**
2 AWG	White	500 ft.	**4WZR1**
1 AWG	Black	500 ft.	**5ZG88**
1 AWG	Red	500 ft.	**4WZR7**
1 AWG	White	500 ft.	**4WZR6**
1/0	Black	500 ft.	**5ZG92**
1/0	Green	500 ft.	**4WZT1**
1/0	White	500 ft.	**4WZR9**
2/0	Black	500 ft.	**5ZG93**
2/0	Green	500 ft.	**4WZT2**
3/0	Black	500 ft.	**5ZG94**
4/0	Black	500 ft.	**5ZG95**
4/0	Green	500 ft.	**4WZT3**
250 MCM	Black	500 ft.	**5ZG96**
Solid			
14 AWG	Beige	2500 ft.	**4WYV8**
14 AWG	Black	50 ft.	**5FZX3**
14 AWG	Black	100 ft.	**4WYU2**
14 AWG	Black	500 ft.	**4W187**
14 AWG	Black	2500 ft.	**4WYU6**
14 AWG	Blue	500 ft.	**4W190**
14 AWG	Blue	2500 ft.	**4WYV1**
14 AWG	Brown	500 ft.	**5C973**
14 AWG	Brown	2500 ft.	**4WYV3**
14 AWG	Gray	500 ft.	**5C975**
14 AWG	Gray	2500 ft.	**4WYV5**
14 AWG	Green	50 ft.	**5FZX6**
14 AWG	Green	100 ft.	**4WYU5**
14 AWG	Green	500 ft.	**4W191**
14 AWG	Green	2500 ft.	**4WYV2**
14 AWG	Orange	500 ft.	**5C974**
14 AWG	Orange	2500 ft.	**4WYV4**
14 AWG	Pink	500 ft.	**4WYV9**
14 AWG	Pink	2500 ft.	**4WYV6**
14 AWG	Purple	500 ft.	**4WYW1**
14 AWG	Purple	2500 ft.	**4WYV7**
14 AWG	Red	50 ft.	**5FZX5**
14 AWG	Red	100 ft.	**4WYU4**
14 AWG	Red	500 ft.	**4W188**
14 AWG	Red	2500 ft.	**4WYU8**
14 AWG	White	50 ft.	**5FZX4**
14 AWG	White	100 ft.	**4WYU3**
14 AWG	White	500 ft.	**4W186**
14 AWG	White	2500 ft.	**4WYU7**
14 AWG	Yellow	500 ft.	**4W189**
14 AWG	Yellow	2500 ft.	**4WYU9**
12 AWG	Beige	2500 ft.	**4WYY3**
12 AWG	Black	50 ft.	**5FZX7**
12 AWG	Black	100 ft.	**4WYW3**
12 AWG	Black	500 ft.	**4W193**
12 AWG	Black	1000 ft.	**38NF47**
12 AWG	Black	2500 ft.	**4WYX1**
12 AWG	Black/Green/White	350 ft.	**38NF43** *
12 AWG	Blue	500 ft.	**4W196**
12 AWG	Blue	2500 ft.	**4WYX5**
12 AWG	Brown	500 ft.	**5C976**
12 AWG	Brown	2500 ft.	**4WYX7**
12 AWG	Gray	500 ft.	**5C978**
12 AWG	Gray	2500 ft.	**4WYX9**
12 AWG	Green	50 ft.	**5FZY0**
12 AWG	Green	100 ft.	**4WYW6**
12 AWG	Green	500 ft.	**4W197**
12 AWG	Green	1000 ft.	**38NF46**
12 AWG	Green	2500 ft.	**4WYX6**
12 AWG	Orange	500 ft.	**5C977**
12 AWG	Orange	2500 ft.	**4WYX8**
12 AWG	Pink	500 ft.	**4WYW7**
12 AWG	Pink	2500 ft.	**4WYY1**
12 AWG	Purple	500 ft.	**4WYW8**
12 AWG	Purple	2500 ft.	**4WYY2**
12 AWG	Red	50 ft.	**5FZX9**
12 AWG	Red	100 ft.	**4WYW5**
12 AWG	Red	500 ft.	**4W194**
12 AWG	Red	1000 ft.	**38NF45**
12 AWG	Red	2500 ft.	**4WYX3**
12 AWG	White	50 ft.	**5FZX8**
12 AWG	White	100 ft.	**4WYW4**
12 AWG	White	500 ft.	**4W192**
12 AWG	White	1000 ft.	**38NF48**
12 AWG	White	2500 ft.	**4WYX2**
12 AWG	Yellow	500 ft.	**4W195**
12 AWG	Yellow	2500 ft.	**4WYX4**
10 AWG	Black	50 ft.	**4WYY4**
10 AWG	Black	100 ft.	**4WYY8**
10 AWG	Black	500 ft.	**3ZK45**
10 AWG	Black	2500 ft.	**4WZA2**
10 AWG	Blue	500 ft.	**4WYZ4**
10 AWG	Blue	2500 ft.	**4WZA6**
10 AWG	Brown	500 ft.	**4WYZ5**
10 AWG	Brown	2500 ft.	**4WZA8**
10 AWG	Gray	500 ft.	**4WYZ7**
10 AWG	Gray	2500 ft.	**4WZC1**
10 AWG	Green	50 ft.	**4WYY7**
10 AWG	Green	100 ft.	**4WYZ2**
10 AWG	Green	500 ft.	**3ZK48**
10 AWG	Green	2500 ft.	**4WZA7**
10 AWG	Orange	500 ft.	**4WYZ6**
10 AWG	Orange	2500 ft.	**4WZA9**
10 AWG	Pink	500 ft.	**4WYZ8**
10 AWG	Pink	2500 ft.	**4WZC2**
10 AWG	Purple	500 ft.	**4WYZ9**
10 AWG	Purple	2500 ft.	**4WZC3**
10 AWG	Red	50 ft.	**4WYY6**
10 AWG	Red	100 ft.	**4WYZ1**
10 AWG	Red	500 ft.	**3ZK47**
10 AWG	Red	2500 ft.	**4WZA4**
10 AWG	White	50 ft.	**4WYY5**
10 AWG	White	100 ft.	**4WYY9**
10 AWG	White	500 ft.	**3ZK46**
10 AWG	White	2500 ft.	**4WZA3**
10 AWG	Yellow	500 ft.	**4WYZ3**
10 AWG	Yellow	2500 ft.	**4WZA5**
XHHW Building Wire			
Stranded			
14 AWG	Black	500 ft.	**55CW97**
14 AWG	Blue	500 ft.	**55CX01**
14 AWG	Brown	500 ft.	**55CX05**
14 AWG	Green	500 ft.	**55CX02**
14 AWG	Orange	500 ft.	**55CX04**
14 AWG	Red	500 ft.	**55CW99**
14 AWG	White	500 ft.	**55CW98**
14 AWG	Yellow	500 ft.	**55CX03**
12 AWG	Black	500 ft.	**55CX06**
12 AWG	Blue	500 ft.	**55CX09**
12 AWG	Brown	500 ft.	**55CX13**
12 AWG	Green	500 ft.	**55CX10**
12 AWG	Orange	500 ft.	**55CX12**
12 AWG	Red	500 ft.	**55CX08**
12 AWG	White	500 ft.	**55CX07**
12 AWG	Yellow	500 ft.	**55CX11**
10 AWG	Black	500 ft.	**55CX14**
10 AWG	Blue	500 ft.	**55CX17**
10 AWG	Brown	500 ft.	**55CX21**
10 AWG	Green	500 ft.	**55CX18**
10 AWG	Orange	500 ft.	**55CX20**
10 AWG	Red	500 ft.	**55CX16**
10 AWG	White	500 ft.	**55CX15**
10 AWG	Yellow	500 ft.	**55CX19**

** Number of Conductors: 3*

CAROL BRAND

Bus Drop and Tray Cable

These are service cords that connect a power supply to a machine or device. They have two or more insulated conductors and a protective jacket that resists abrasion, water, sunlight, and lubricants. **Bus drop cable** is typically used as a branch connection from a ceiling cable. **Tray cable** is primarily used for wiring installations in open-air raceways and trays.



No. 1YPX1

Wire Size	Jacket Color	Wire Color	L	Item No.
Bus Drop Cable Type, PVC Jacket Material				
3 Conductors				
14 AWG	Gray	Black, Red, White	250 ft	**1YPX1**
12 AWG	Gray	Black, Red, White	250 ft	**3ZK69**
10 AWG	Gray	Black, Red, White	250 ft	**3ZK68**
8 AWG	Gray	Black, Red, White	250 ft	**1YPX2**
6 AWG	Gray	Black, Red, White	250 ft	**1YPX3**
4 AWG	Gray	Black, Red, White	250 ft	**4DPE3**
2 AWG	Gray	Black, Red, White	250 ft	**4DPE4**
TC Cable Type, PVC Jacket Material				
3 Conductors				
12 AWG	Black	Black with White Numbers	500 ft	**1UNG9**
8 AWG	Black	Black with White Numbers	500 ft	**1UNH2**
6 AWG	Black	Black with White Numbers	500 ft	**1UNH3**
4 AWG	Black	Black with White Numbers	500 ft	**1UNH5**
2 AWG	Black	Black with White Numbers	500 ft	**1UNH6**
2/0	Black	Black with White Numbers	500 ft	**1UNH4**
TC - ER Cable Type, XLPE/PVC Jacket Material				
2 Conductors				
14 AWG	Black	Black, Red	500 ft	**4DNW7**
10 AWG	Black	Black, Red	500 ft	**4DNX8**
3 Conductors				
14 AWG	Black	Black, Red, White	500 ft	**4DNW8**
12 AWG	Black	Black, Red, White	500 ft	**4DNX4**
10 AWG	Black	Black, Red, White	500 ft	**4DNX9**
4 Conductors				
14 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNW9**
12 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNX5**
10 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNY1**
5 Conductors				
14 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNX1**
12 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNX6**
10 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNY2**
7 Conductors				
14 AWG	Black	Black, Blue, Brown, Orange, Red, Red/Black, Yellow	500 ft	**4DNX2**

CAROL BRAND

Hookup Wire

- PVC insulation
- Stranded conductor design

Small- to medium-gauge insulated wire used to make internal connections inside enclosed electrical or electronic devices. It resists acids, oils, and moisture.



No. 5ZDK9

Wire Size	Jacket Color	L	Nominal O.D.	Item No.
300 V, CSA TR-64, UL 1007, UL 1569 Designation				
24 AWG	Black	100 ft	0.06 in	**5ZDE4**
24 AWG	Blue	100 ft	0.06 in	**5ZDF0**
24 AWG	Red	100 ft	0.06 in	**5ZDE6**
24 AWG	Yellow	100 ft	0.06 in	**5ZDE8**
22 AWG	Black	100 ft	0.06 in	**5ZDF1**
22 AWG	Blue	100 ft	0.06 in	**5ZDF7**
22 AWG	Green	100 ft	0.06 in	**5ZDF6**
22 AWG	Orange	100 ft	0.06 in	**5ZDF4**
22 AWG	Red	100 ft	0.06 in	**5ZDF3**
22 AWG	White	100 ft	0.06 in	**5ZDF2**
22 AWG	Yellow	100 ft	0.06 in	**5ZDF5**
20 AWG	Black	100 ft	0.07 in	**5ZDF8**
20 AWG	Blue	100 ft	0.07 in	**5ZDG4**
20 AWG	Red	100 ft	0.07 in	**5ZDG0**
20 AWG	White	100 ft	0.07 in	**5ZDF9**
18 AWG	Black	100 ft	0.08 in	**5ZDG5**
18 AWG	Blue	100 ft	0.08 in	**5ZDH1**
18 AWG	Orange	100 ft	0.08 in	**5ZDG8**
18 AWG	Red	100 ft	0.08 in	**5ZDG7**
18 AWG	White	100 ft	0.08 in	**5ZDG6**
18 AWG	Yellow	100 ft	0.08 in	**5ZDG9**
16 AWG	Black	100 ft	0.09 in	**5ZDH2**
16 AWG	Red	100 ft	0.09 in	**5ZDH4**
16 AWG	White	100 ft	0.09 in	**5ZDH3**
600 V, CSA TEW, UL 1015 Designation				
20 AWG	Blue	100 ft	0.1 in	**5ZDJ5**
20 AWG	Red	100 ft	0.1 in	**5ZDJ1**
18 AWG	Black	100 ft	0.11 in	**5ZDJ6**
18 AWG	Blue	100 ft	0.11 in	**5ZDK2**
18 AWG	Red	100 ft	0.11 in	**5ZDJ8**
18 AWG	White	100 ft	0.11 in	**5ZDJ7**
16 AWG	Blue	100 ft	0.12 in	**5ZDK9**
16 AWG	White	100 ft	0.12 in	**5ZDK4**
14 AWG	Green	100 ft	0.14 in	**5ZJL6**
14 AWG	Red	100 ft	0.14 in	**5ZJL3**
14 AWG	White	100 ft	0.14 in	**5ZJL2**
14 AWG	Yellow	100 ft	0.14 in	**5ZJL5**

CAROL BRAND Southwire

Machine Tool Wire

- PVC insulation
- Rated for 600V
- Stranded conductor design

This wire is typically used in the internal wiring of HVAC equipment, machine tools, circuits, and control panels. It has a durable jacket that is heat-, oil-, and moisture-resistant.



No. 1YRA3

Wire Size	Wire Color	L	Nominal O.D.	Brand	Item No.
Machine Tool Wire					
18 AWG	Black	500 ft	0.11 in	Carol	**1YRA1**
18 AWG	Blue	500 ft	0.11 in	Southwire	**5LXA9**
18 AWG	Brown	500 ft	0.11 in	Southwire	**5LWZ9**
18 AWG	Gray	500 ft	0.11 in	Southwire	**5LXC0**
18 AWG	Green	500 ft	0.11 in	Carol	**1YRA6**
18 AWG	Light Blue	500 ft	0.11 in	Carol	**1YRB2**
18 AWG	Orange	500 ft	0.11 in	Southwire	**5LWZ8**
18 AWG	Purple	500 ft	0.11 in	Southwire	**5LXA8**
18 AWG	Red	500 ft	0.11 in	Carol	**1YRA3**
18 AWG	White	500 ft	0.11 in	Carol	**1YRA2**
18 AWG	Yellow	500 ft	0.11 in	Carol	**1YRA5**
16 AWG	Black	500 ft	0.12 in	Carol	**1YRB4**
16 AWG	Blue	500 ft	0.12 in	Southwire	**5LXC5**
16 AWG	Brown	500 ft	0.12 in	Southwire	**5LXC3**
16 AWG	Green	500 ft	0.12 in	Carol	**1YRB9**
16 AWG	Light Blue	500 ft	0.12 in	Carol	**1YRC5**
16 AWG	Orange	500 ft	0.12 in	Southwire	**5LXA7**
16 AWG	Pink	500 ft	0.12 in	Southwire	**5LXD4**
16 AWG	Purple	500 ft	0.12 in	Southwire	**5LXC4**
16 AWG	Red	500 ft	0.12 in	Carol	**1YRB6**
16 AWG	White	500 ft	0.12 in	Carol	**1YRB5**
16 AWG	Yellow	500 ft	0.12 in	Southwire	**5LXA0**
14 AWG	Black	500 ft	0.14 in	Southwire	**5LWZ1**
14 AWG	Blue	500 ft	0.14 in	Southwire	**5LXA5**
14 AWG	Brown	500 ft	0.14 in	Southwire	**5LXE2**
14 AWG	Gray	500 ft	0.14 in	Southwire	**5LXE0**
14 AWG	Green	500 ft	0.14 in	Southwire	**5LXA3**
14 AWG	Light Blue	500 ft	0.14 in	Carol	**1YRD8**
14 AWG	Orange	500 ft	0.14 in	Southwire	**5LXD7**
14 AWG	Pink	500 ft	0.14 in	Southwire	**5LXE9**
14 AWG	Purple	500 ft	0.14 in	Southwire	**5LXD5**
14 AWG	Red	500 ft	0.14 in	Southwire	**5LWZ0**
14 AWG	White	500 ft	0.14 in	Southwire	**5LWZ7**
14 AWG	Yellow	500 ft	0.14 in	Southwire	**5LXD2**
12 AWG	Black	500 ft	0.16 in	Carol	**1YRE1**
12 AWG	Blue	500 ft	0.15 in	Southwire	**5LXD0**
12 AWG	Brown	500 ft	0.15 in	Southwire	**5LXD6**
12 AWG	Gray	500 ft	0.16 in	Carol	**1YRE9**
12 AWG	Green	500 ft	0.15 in	Southwire	**5LXA4**
12 AWG	Orange	500 ft	0.15 in	Southwire	**5LXD8**
12 AWG	Pink	500 ft	0.16 in	Carol	**1YRF1**
12 AWG	Red	500 ft	0.15 in	Southwire	**5LXA6**
12 AWG	White	500 ft	0.15 in	Southwire	**5LXA2**
12 AWG	Yellow	500 ft	0.15 in	Southwire	**5LXD3**
10 AWG	Black	500 ft	0.18 in	Southwire	**5LXA1**
10 AWG	Blue	500 ft	0.18 in	Southwire	**5LXE6**
10 AWG	Brown	500 ft	0.18 in	Carol	**1YRG2**
10 AWG	Green	500 ft	0.18 in	Southwire	**5LXC6**
10 AWG	Orange	500 ft	0.18 in	Southwire	**5LXE7**
10 AWG	Red	500 ft	0.18 in	Southwire	**5LXC8**
10 AWG	White	500 ft	0.18 in	Southwire	**5LXC7**
10 AWG	Yellow	500 ft	0.18 in	Southwire	**5LXE4**
8 AWG	Black	500 ft	0.24 in	Carol	**1YRG7**
8 AWG	Green	500 ft	0.24 in	Carol	**1YRH3**
8 AWG	Red	500 ft	0.24 in	Carol	**1YRG9**
8 AWG	White	500 ft	0.24 in	Carol	**1YRG8**



No. 34A214

Southwire

Fixture Wire

- PVC insulation with nylon jacket
- Rated for 600V

This is a coated wire that's typically run through raceways and is designed for fixture wiring.

Wire Size	Jacket Color	L	Item No.
TFFN Fixture Wire			
Stranded			
18 AWG	Black	500 ft	**5LWY5**
18 AWG	Blue	500 ft	**5LWY6**
18 AWG	Green	500 ft	**5LWZ3**
18 AWG	Red	500 ft	**5LWY4**
18 AWG	White	500 ft	**5LWY8**
18 AWG	Yellow	500 ft	**5LWZ5**
16 AWG	Beige	500 ft	**4WYU1**
16 AWG	Black	500 ft	**5LWY1**
16 AWG	Blue	500 ft	**5LWY2**
16 AWG	Brown	500 ft	**5LWZ6**
16 AWG	Green	500 ft	**5LWY9**
16 AWG	Orange	500 ft	**5LWZ2**
16 AWG	Pink	500 ft	**4WYT8**
16 AWG	Purple	500 ft	**4WYT9**
16 AWG	Red	500 ft	**5LWY0**
16 AWG	White	500 ft	**5LWY3**
16 AWG	Yellow	500 ft	**5LWY7**
Solid			
18 AWG	Black	500 ft	**34A212**
18 AWG	Green	500 ft	**34A215**
18 AWG	Red	500 ft	**34A214**
18 AWG	White	500 ft	**34A213**

NM-B Building Cable

- PVC insulation
- Rated for 600V
- Stranded conductor design
- Operating temp.: 140°F dry

Nonmetallic cable is commonly used in residential and commercial applications to provide power for outlets, lighting, and appliances. It is for indoor use only.

Wire Size	Jacket Color	Jacket Material	Wire Color	Brand	25 FT. Item No.	50 FT. Item No.	100 FT. Item No.	125 FT. Item No.	250 FT. Item No.	500 FT. Item No.
Stranded, NM-B Designation										
3 with Bare CU Ground										
8 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	55CX32	55CX33	—	55CX25	—	55CX26
6 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	55CX34	55CX35	—	55CX27	—	55CX28
4 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	—	—	—	55CX29	—	55CX30
2 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	—	—	—	55CX31	—	—
Solid, NM-B Designation										
2 with Bare CU Ground										
14 AWG	White	PVC	Bare, Black, White	Romex	2VGA2	2VGA3	2VGA4	—	4WZT4	—
12 AWG	Yellow	PVC	Bare, Black, White	Romex	2VGA5	2VGA6	2VGA7	—	4WZT5	—
10 AWG	Orange	PVC	Bare, Black, White	Romex	2VGA8	2VGA9	2VGC1	—	4WZT8	—
3 with Bare CU Ground										
14 AWG	White	PVC	Bare, Black, Red, White	Romex	2VGC2	2VGC3	2VGC4	—	4WZU2	—
12 AWG	Yellow	PVC	Bare, Black, Red, White	Romex	2VGC5	2VGC6	2VGC7	—	4WZU3	—
10 AWG	Orange	PVC	Bare, Black, Red, White	Romex	2VGC8	2VGC9	—	—	4WZT9	—



No. 2VGA5



No. 3GXX1

Description	Brand	Item No.
Cable Stripper		
Lil' Ripper Stripper™ Cutting Tool	IDEAL	3GXX1



No. 29HZ22

UF-B Underground Feeder Cable

- PVC insulation with nylon jacket
- Rated for 600V

UF-B wire can be buried directly in the ground, with or without conduit. It may be used in wet indoor settings because it resists moisture and fungus.

Wire Size	Jacket Color	L	Brand	Item No.
Solid, UF-B Designation				
3 with Bare CU Ground				
14 AWG	Gray	250 ft	Southwire	55CX43
14 AWG	Gray	1,000 ft	Southwire	55CX44
12 AWG	Gray	250 ft	Southwire	55CX45
12 AWG	Gray	1,000 ft	Southwire	55CX46
10 AWG	Gray	1,000 ft	Southwire	55CX47
2 with Bare CU Ground				
10 AWG	Gray	250 ft	Romex	4WZU1
14 AWG	Gray	250 ft	Romex	4WZT6
12 AWG	Gray	250 ft	Romex	4WZT7
3 with Bare CU Ground				
10 AWG	Gray	250 ft	Romex	29HZ21
8 AWG	Gray	25 ft	Romex	29HZ22
Stranded, UF-B Designation				
2 with Bare CU Ground				
14 AWG	Gray	1,000 ft	Southwire	55CX36
12 AWG	Gray	1,000 ft	Southwire	55CX37
10 AWG	Gray	1,000 ft	Southwire	55CX38
8 AWG	Gray	125 ft	Southwire	55CX39
8 AWG	Gray	500 ft	Southwire	55CX40
6 AWG	Gray	125 ft	Southwire	55CX41
6 AWG	Gray	500 ft	Southwire	55CX42
3 with Bare CU Ground				
8 AWG	Gray	125 ft	Southwire	55CX48
8 AWG	Gray	500 ft	Southwire	55CX49
6 AWG	Gray	125 ft	Southwire	55CX50
6 AWG	Gray	500 ft	Southwire	55CX51

Armored Building Cable

- Rated for 600V

Also known as BX cable or metal-clad (MC) cable, armored cable prevents accidental penetration better than NM-B building cable, but it is heavier and harder to handle, rip back, and cut. Protective corrugated metal jacket (called a sheath or cord) serves as a conduit and provides grounding.



No. 446P36

Wire Size	Jacket Color	Jacket Material	Wire Color	L	Item No.
Solid, MC Designation					
2 with Insulated CU Ground					
14 AWG	Silver	Aluminum	Black, Green, White	25 ft.	20KZ40
14 AWG	Silver	Aluminum	Black, Green, White	50 ft.	20KZ41
14 AWG	Silver	Aluminum	Black, Green, White	100 ft.	20KZ42
14 AWG	Silver	Aluminum	Black, Green, White	250 ft.	20KZ43
12 AWG	Silver	Aluminum	Blue, Green, White	250 ft.	446P37
12 AWG	Silver	Aluminum	Brown, Gray, Green	250 ft.	446P38
12 AWG	Silver	Aluminum	Gray, Green, Purple	250 ft.	446P40
12 AWG	Silver	Aluminum	Gray, Green, Yellow	250 ft.	446P39
12 AWG	Silver	Aluminum	Green, Red, White	250 ft.	446P36
3 with Insulated CU Ground					
12 AWG	Silver	Aluminum	Black, Blue, Green, White	250 ft.	446P42
12 AWG	Silver	Aluminum	Blue, Green, Red, White	250 ft.	446P41
12 AWG	Silver	Aluminum	Brown, Gray, Green, Yellow	250 ft.	446P43
4 with Insulated CU Ground					
12 AWG	Silver	Aluminum	Black, Blue, Green, Red, White	250 ft.	446P44
Solid, MC FPLP Designation					
2 with Insulated CU Ground					
14 AWG	Red	Aluminum	Black, Green, White	250 ft.	20KZ66
14 AWG	Red	Aluminum	Black, Green, White	1000 ft.	20KZ67
12 AWG	Red	Aluminum	Black, Green, White	250 ft.	20KZ68
12 AWG	Red	Aluminum	Black, Green, White	1000 ft.	20KZ69
Solid, MC HCF Designation					
2 with Insulated CU Ground					
12 AWG	Green	Aluminum	Black, Green, White	1000 ft.	20KZ63
Stranded, MC HCF Designation					
2 with Insulated CU Ground					
12 AWG	Green	Aluminum	Black, Green, White	1000 ft.	20KZ65

KH INDUSTRIES

Pendant Drop Portable Cord

- Thermoplastic jacket
- Rated for 600V
- Temp. range: -10° to 90°C

This temporary service cord contains multiple conductors. It is installed as a branch off of ceiling cable and hangs down to provide power to a machine.



Without Strain Relief



With External Strain Relief



With Internal Strain Relief

Wire Size	Jacket Color	Jacket Material	L	Item No.
SOOW, Pendant Cable				
8 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL76
12 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL77
16 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL78
24 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL79
SOOW, Pendant Cable with External Strain Relief				
8 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL80
12 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL81
16 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL82
24 Conductors				
16 AWG	Yellow	PVC	25 ft.	30PL83
SOOW, Pendant Cable with Internal Strain Relief				
3 Conductors				
16 AWG	Black	PVC	25 ft.	30PL84
5 Conductors				
16 AWG	Black	PVC	25 ft.	30PL85
7 Conductors				
16 AWG	Black	PVC	25 ft.	30PL86

** Internal strain relief. † External strain relief.*



No. 3ENG2

CAROL BRAND

Super Vu-Tron® SOOW Types and W Portable Cord

- Rated for 600V

Heavy-duty service cord with oil-resistant insulation and a flexible thermoset rubber jacket is oil-, water-, and weather-resistant. This cable is typically used to power industrial applications.

Wire Size	Jacket Color	Jacket Material	ORDER BY THE FOOT Item No.
600 V, SOOW, Portable Cord			
9 Conductors			
16 AWG	Black	EPDM Rubber	3ENF4
12 AWG	Black	EPDM Rubber	3ENG6
10 Conductors			
16 AWG	Black	EPDM Rubber	3ENF5
12 Conductors			
18 AWG	Black	EPDM Rubber	3ENE9
16 AWG	Black	EPDM Rubber	3ENF6
14 AWG	Black	EPDM Rubber	3ENG2
14 Conductors			
12 AWG	Black	EPDM Rubber	3ENG9
16 Conductors			
16 AWG	Black	EPDM Rubber	3ENF7
14 AWG	Black	EPDM Rubber	3ENG3
12 AWG	Black	EPDM Rubber	3ENH1
20 Conductors			
16 AWG	Black	EPDM Rubber	3ENF8
14 AWG	Black	EPDM Rubber	3ENG4
24 Conductors			
18 AWG	Black	EPDM Rubber	3ENF3
16 AWG	Black	EPDM Rubber	3ENF9
12 AWG	Black	EPDM Rubber	3ENH3
2,000 V, W, Portable Cord			
1 Conductors			
2/0	Black	EPDM Rubber	4DPP2



No. 3W478

Portable Cord

GRAINGER APPROVED CAROL BRAND

- Stranded conductor design

Flexible, moveable electrical cable. **SJOOW and SOOW cord** is heavy-duty service cord with a jacket that hardens under a direct application of heat, allowing the cord to be unaffected by aging, abrasion, water, sunlight, and ozone. **SJTOW and STOW cord** is less flexible than SEOW and SOOW portable cord and will degrade under extreme temperatures and exposure to oil and chemicals. **SEOW cord** is more resistant to water than SOOW portable cord and can be used at lower temperatures, but it is less durable.

Wire Size	Jacket Color	Jacket Material	L	Brand	Item No.	
300 V, SJOOW, Portable Cord						
2 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX43**	
18 AWG	Black	Rubber	50 ft	Carol	**20PX56**	
18 AWG	Black	Rubber	100 ft	GA	**20PX69**	
18 AWG	Yellow	EPDM	250 ft	Carol	**2TKW4**	*
16 AWG	Black	Rubber	25 ft	GA	**4KA53**	
16 AWG	Black	Rubber	50 ft	GA	**4KA54**	
16 AWG	Black	EPDM	100 ft	GA	**1YPW2**	
16 AWG	Black	EPDM	250 ft	Carol	**1W312**	
16 AWG	Yellow	EPDM	250 ft	Carol	**2TKW5**	*
14 AWG	Black	Rubber	25 ft	GA	**4KA57**	
14 AWG	Black	Rubber	50 ft	GA	**4KA58**	
14 AWG	Black	EPDM	100 ft	GA	**1YPW4**	
14 AWG	Black	EPDM	250 ft	GA	**1W925**	
3 Conductors						
18 AWG	Black	Rubber	25 ft	GA	**20PX44**	
18 AWG	Black	Rubber	50 ft	GA	**20PX57**	
18 AWG	Black	Rubber	100 ft	GA	**20PX70**	
16 AWG	Black	Rubber	25 ft	GA	**4KA55**	
16 AWG	Black	Rubber	50 ft	GA	**4KA56**	
16 AWG	Black	CPE	100 ft	GA	**1YPW3**	
16 AWG	Black	CPE	250 ft	GA	**1W661**	
16 AWG	Yellow	EPDM	250 ft	Carol	**2TKW3**	*
14 AWG	Black	Rubber	25 ft	GA	**4KA59**	
14 AWG	Black	Rubber	50 ft	GA	**4KA60**	
14 AWG	Black	CPE	100 ft	GA	**1YPW5**	
14 AWG	Black	EPDM	250 ft	Carol	**1W926**	
14 AWG	Yellow	EPDM	250 ft	Carol	**2TKW7**	*
14 AWG	Yellow	EPDM	250 ft	Carol	**6XWR0**	
12 AWG	Black	Rubber	25 ft	GA	**4KA61**	
12 AWG	Black	Rubber	50 ft	GA	**4KA62**	
12 AWG	Black	EPDM	100 ft	Carol	**1YPW6**	
12 AWG	Black	EPDM	250 ft	Carol	**5W578**	
10 AWG	Black	Rubber	25 ft	GA	**20PX54**	
10 AWG	Black	Rubber	50 ft	GA	**20PX67**	
10 AWG	Black	Rubber	100 ft	GA	**20PX80**	
4 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX45**	
18 AWG	Black	Rubber	50 ft	GA	**20PX58**	
18 AWG	Black	Rubber	100 ft	GA	**20PX71**	
16 AWG	Black	Rubber	25 ft	GA	**20PX48**	
16 AWG	Black	Rubber	50 ft	GA	**20PX61**	
16 AWG	Black	Rubber	100 ft	GA	**20PX74**	
16 AWG	Black	CPE	250 ft	GA	**1UGT9**	
16 AWG	Yellow	EPDM	250 ft	Carol	**2TKW6**	*
14 AWG	Black	Rubber	25 ft	GA	**20PX51**	
14 AWG	Black	Rubber	50 ft	GA	**20PX64**	
14 AWG	Black	Rubber	100 ft	GA	**20PX77**	
14 AWG	Yellow	EPDM	250 ft	Carol	**2TKW8**	*
12 AWG	Black	Rubber	25 ft	GA	**20PX53**	
12 AWG	Black	Rubber	50 ft	GA	**20PX66**	
12 AWG	Black	Rubber	100 ft	GA	**20PX79**	
10 AWG	Black	Rubber	25 ft	GA	**20PX55**	
10 AWG	Black	Rubber	50 ft	GA	**20PX68**	
10 AWG	Black	Rubber	100 ft	GA	**20PX81**	
10 AWG	Black	EPDM	250 ft	Carol	**1UGU2**	
300 V, SJTOW, Portable Cord						
3 Conductors						
18 AWG	Yellow	PVC	250 ft	GA	**2TYK5**	
16 AWG	Yellow	PVC	250 ft	GA	**2TYK7**	
14 AWG	Yellow	PVC	250 ft	GA	**2TYK9**	
12 AWG	Yellow	PVC	250 ft	GA	**2TYL2**	
10 AWG	Yellow	PVC	250 ft	GA	**2TYL4**	
4 Conductors						
18 AWG	Yellow	PVC	250 ft	GA	**2TYK6**	
16 AWG	Yellow	PVC	250 ft	GA	**2TYK8**	
14 AWG	Yellow	PVC	250 ft	GA	**2TYL1**	
12 AWG	Yellow	PVC	250 ft	GA	**2TYL3**	
10 AWG	Yellow	PVC	250 ft	GA	**2TYL5**	
600 V, SEOW, Portable Cord						
2 Conductors						
18 AWG	Black	TPE	250 ft	GA	**2TYF7**	
18 AWG	Yellow	TPE	250 ft	GA	**2TYH6**	
16 AWG	Black	TPE	250 ft	GA	**2TYG1**	
16 AWG	Yellow	TPE	250 ft	GA	**2TYH9**	
14 AWG	Black	TPE	250 ft	GA	**2TYG4**	
14 AWG	Yellow	TPE	250 ft	GA	**2TYJ3**	
3 Conductors						
18 AWG	Black	TPE	250 ft	GA	**2TYF8**	
18 AWG	Yellow	TPE	250 ft	GA	**2TYH7**	
16 AWG	Black	TPE	250 ft	GA	**2TYG2**	
16 AWG	Yellow	TPE	250 ft	GA	**2TYJ1**	
14 AWG	Black	TPE	250 ft	GA	**2TYG5**	
14 AWG	Yellow	TPE	250 ft	GA	**2TYJ4**	
12 AWG	Black	TPE	250 ft	GA	**2TYG7**	
12 AWG	Yellow	TPE	250 ft	GA	**2TYJ6**	
10 AWG	Black	TPE	250 ft	GA	**2TYG9**	
10 AWG	Yellow	TPE	250 ft	GA	**2TYJ8**	
8 AWG	Yellow	TPE	250 ft	GA	**2TYK1**	
8 AWG	Black	TPE	250 ft	GA	**2TYH2**	
6 AWG	Yellow	TPE	250 ft	GA	**2TYK3**	
6 AWG	Black	TPE	250 ft	GA	**2TYH4**	
4 Conductors						
18 AWG	Black	TPE	250 ft	GA	**2TYF9**	
18 AWG	Yellow	TPE	250 ft	GA	**2TYH8**	
16 AWG	Black	TPE	250 ft	GA	**2TYG3**	
16 AWG	Yellow	TPE	250 ft	GA	**2TYJ2**	
14 AWG	Black	TPE	250 ft	GA	**2TYG6**	
14 AWG	Yellow	TPE	250 ft	GA	**2TYJ5**	
12 AWG	Black	TPE	250 ft	GA	**2TYG8**	
12 AWG	Yellow	TPE	250 ft	GA	**2TYJ7**	
10 AWG	Black	TPE	250 ft	GA	**2TYH1**	
10 AWG	Yellow	TPE	250 ft	GA	**2TYJ9**	
8 AWG	Yellow	TPE	250 ft	GA	**2TYK2**	
8 AWG	Black	TPE	250 ft	GA	**2TYH3**	
6 AWG	Yellow	TPE	250 ft	GA	**2TYK4**	
6 AWG	Black	TPE	250 ft	GA	**2TYH5**	
600 V, SOOW, Portable Cord						
2 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX82**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY20**	
18 AWG	Black	Rubber	100 ft	GA	**20PY57**	
16 AWG	Black	Rubber	25 ft	Carol	**20PX89**	
16 AWG	Black	Rubber	50 ft	Carol	**20PY27**	
16 AWG	Black	Rubber	100 ft	GA	**20PY64**	
14 AWG	Black	Rubber	25 ft	Carol	**20PX96**	
14 AWG	Black	Rubber	50 ft	Carol	**20PY34**	
14 AWG	Black	Rubber	100 ft	Carol	**20PY71**	
12 AWG	Black	Rubber	25 ft	Carol	**20PY01**	
12 AWG	Black	Rubber	50 ft	Carol	**20PY38**	
12 AWG	Black	Rubber	100 ft	GA	**20PY75**	
10 AWG	Black	Rubber	25 ft	Carol	**20PY06**	
10 AWG	Black	Rubber	50 ft	Carol	**20PY43**	
10 AWG	Black	Rubber	100 ft	GA	**20PY80**	
3 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX83**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY21**	
18 AWG	Black	Rubber	100 ft	GA	**20PY58**	
18 AWG	Black	EPDM	250 ft	Carol	**3ZK64**	
16 AWG	Black	Rubber	25 ft	GA	**4KA63**	
16 AWG	Black	Rubber	50 ft	GA	**4KA64**	
16 AWG	Black	CPE	100 ft	GA	**1YPW7**	
16 AWG	Black	EPDM	250 ft	Carol	**2W375**	
16 AWG	Yellow	EPDM	250 ft	Carol	**2TKW9**	*
14 AWG	Black	Rubber	25 ft	GA	**4KA65**	
14 AWG	Black	Rubber	50 ft	GA	**4KA66**	
14 AWG	Black	CPE	100 ft	GA	**1YPW8**	
14 AWG	Black	EPDM	250 ft	Carol	**2W376**	
14 AWG	Yellow	EPDM	250 ft	Carol	**2TKX2**	*
14 AWG	Yellow	EPDM	250 ft	Carol	**6XWT0**	
12 AWG	Black	Rubber	25 ft	GA	**4KA67**	
12 AWG	Black	Rubber	50 ft	GA	**4KA68**	
12 AWG	Black	CPE	100 ft	GA	**1YPW9**	
12 AWG	Black	EPDM	250 ft	Carol	**2W378**	
12 AWG	Yellow	EPDM	250 ft	Carol	**2TKX4**	*
12 AWG	Yellow	EPDM	250 ft	Carol	**6XWT2**	
10 AWG	Black	Rubber	25 ft	GA	**20PY07**	
10 AWG	Black	Rubber	50 ft	GA	**20PY44**	
10 AWG	Black	EPDM	100 ft	Carol	**3W478**	
10 AWG	Black	EPDM	250 ft	Carol	**3W477**	
10 AWG	Yellow	EPDM	250 ft	Carol	**2TKX6**	*
8 AWG	Black	Rubber	25 ft	GA	**20PY11**	
8 AWG	Black	Rubber	50 ft	GA	**20PY48**	
8 AWG	Black	Rubber	100 ft	Carol	**20PY85**	
8 AWG	Black	EPDM	250 ft	Carol	**5ZG84**	
6 AWG	Black	Rubber	25 ft	GA	**20PY14**	
6 AWG	Black	Rubber	50 ft	Carol	**20PY51**	
6 AWG	Black	EPDM	100 ft	GA	**5ZG86**	
4 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX84**	
18 AWG	Black	Rubber	50 ft	GA	**20PY22**	
18 AWG	Black	Rubber	100 ft	Carol	**20PY59**	
18 AWG	Black	EPDM	250 ft	Carol	**5ZG77**	
18 AWG	Yellow	EPDM	250 ft	Carol	**6XWR7**	
16 AWG	Black	Rubber	25 ft	GA	**20PX91**	
16 AWG	Black	Rubber	50 ft	GA	**20PY29**	
16 AWG	Black	Rubber	100 ft	GA	**20PY66**	
16 AWG	Black	EPDM	250 ft	Carol	**3W479**	
16 AWG	Yellow	EPDM	250 ft	Carol	**2TKX1**	*
16 AWG	Yellow	EPDM	250 ft	Carol	**6XWR9**	
14 AWG	Black	Rubber	25 ft	GA	**20PX98**	
14 AWG	Black	Rubber	50 ft	GA	**20PY36**	
14 AWG	Black	CPE	100 ft	GA	**20PY73**	
14 AWG	Black	EPDM	250 ft	Carol	**2W377**	
14 AWG	Yellow	EPDM	250 ft	Carol	**2TKX3**	*
12 AWG	Black	Rubber	25 ft	GA	**20PY03**	
12 AWG	Black	Rubber	50 ft	GA	**20PY40**	
12 AWG	Black	CPE	100 ft	GA	**20PY77**	
12 AWG	Black	EPDM	250 ft	Carol	**3W476**	
12 AWG	Yellow	EPDM	250 ft	Carol	**2TKX5**	*
12 AWG	Yellow	EPDM	250 ft	Carol	**6XWT3**	
10 AWG	Black	Rubber	25 ft	GA	**20PY08**	
10 AWG	Black	Rubber	50 ft	GA	**20PY45**	
10 AWG	Black	Rubber	100 ft	GA	**20PY82**	
10 AWG	Yellow	EPDM	250 ft	Carol	**2TKX7**	*
10 AWG	Yellow	EPDM	250 ft	Carol	**6XWT5**	
8 AWG	Black	Rubber	25 ft	GA	**20PY12**	
8 AWG	Black	Rubber	50 ft	GA	**20PY49**	
8 AWG	Black	Rubber	100 ft	GA	**20PY86**	
8 AWG	Black	EPDM	250 ft	Carol	**5ZG85**	
6 AWG	Black	Rubber	25 ft	GA	**20PY15**	
6 AWG	Black	Rubber	50 ft	Carol	**20PY52**	
6 AWG	Black	EPDM	100 ft	Carol	**5ZG87**	
4 AWG	Black	Rubber	25 ft	Carol	**20PY17**	
4 AWG	Black	Rubber	50 ft	Carol	**20PY54**	
4 AWG	Black	Rubber	100 ft	Carol	**20PY91**	
2 AWG	Black	Rubber	25 ft	Carol	**20PY19**	
2 AWG	Black	Rubber	50 ft	Carol	**20PY56**	
2 AWG	Black	Rubber	100 ft	Carol	**20PY93**	
5 Conductors						
18 AWG	Black	Rubber	25 ft	Carol	**20PX85**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY23**	
18 AWG	Black	Rubber	100 ft	Carol	**20PY60**	
18 AWG	Black	EPDM	250 ft	GA	**5GED7**	
16 AWG	Black	Rubber	25 ft	GA	**20PX92**	
16 AWG	Black	Rubber	50 ft	GA	**20PY30**	
16 AWG	Black	Rubber	100 ft	Carol	**20PY67**	
16 AWG	Black	EPDM	250 ft	GA	**5GEE0**	
14 AWG	Black	Rubber	25 ft	GA	**20PX99**	
14 AWG	Black	Rubber	50 ft	GA	**20PY37**	
14 AWG	Black	Rubber	100 ft	Carol	**20PY74**	
14 AWG	Black	EPDM	250 ft	Carol	**1UGV8**	
12 AWG	Black	Rubber	25 ft	GA	**20PY04**	
12 AWG	Black	Rubber	50 ft	Carol	**20PY41**	
12 AWG	Black	Rubber	100 ft	Carol	**20PY78**	
12 AWG	Black	EPDM	250 ft	Carol	**1UGV9**	
10 AWG	Black	Rubber	25 ft	GA	**20PY09**	
10 AWG	Black	Rubber	50 ft	GA	**20PY46**	
10 AWG	Black	Rubber	100 ft	GA	**20PY83**	
10 AWG	Black	EPDM	250 ft	Carol	**5GEE4**	
8 AWG	Black	Rubber	25 ft	Carol	**20PY13**	
8 AWG	Black	Rubber	50 ft	Carol	**20PY50**	
8 AWG	Black	Rubber	100 ft	Carol	**20PY87**	
6 AWG	Black	Rubber	25 ft	Carol	**20PY16**	
6 AWG	Black	Rubber	50 ft	Carol	**20PY53**	
6 AWG	Black	Rubber	100 ft	Carol	**20PY90**	
4 AWG	Black	Rubber	25 ft	Carol	**20PY18**	
4 AWG	Black	Rubber	50 ft	Carol	**20PY55**	
4 AWG	Black	Rubber	100 ft	Carol	**20PY92**	
6 Conductors						
18 AWG	Black	Rubber	25 ft	GA	**20PX86**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY24**	
18 AWG	Black	Rubber	100 ft	GA	**20PY61**	
18 AWG	Black	EPDM	250 ft	GA	**5GED6**	
16 AWG	Black	Rubber	25 ft	GA	**20PX93**	
16 AWG	Black	Rubber	50 ft	GA	**20PY31**	
16 AWG	Black	Rubber	100 ft	Carol	**20PY68**	
16 AWG	Black	EPDM	250 ft	GA	**5GED9**	
14 AWG	Black	EPDM	250 ft	GA	**5GEE6**	
12 AWG	Black	Rubber	25 ft	Carol	**20PY05**	
12 AWG	Black	Rubber	50 ft	Carol	**20PY42**	
12 AWG	Black	Rubber	100 ft	Carol	**20PY79**	
12 AWG	Black	EPDM	250 ft	GA	**5GEF0**	
10 AWG	Black	Rubber	25 ft	Carol	**20PY10**	
10 AWG	Black	Rubber	50 ft	Carol	**20PY47**	
10 AWG	Black	Rubber	100 ft	Carol	**20PY84**	
7 Conductors						
16 AWG	Black	EPDM	250 ft	GA	**5GEE3**	
14 AWG	Black	EPDM	250 ft	Carol	**5GEE9**	
8 Conductors						
18 AWG	Black	Rubber	25 ft	GA	**20PX87**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY25**	
18 AWG	Black	Rubber	100 ft	GA	**20PY62**	
18 AWG	Black	EPDM	250 ft	GA	**5GED8**	
16 AWG	Black	Rubber	25 ft	GA	**20PX94**	
16 AWG	Black	Rubber	50 ft	GA	**20PY32**	
16 AWG	Black	Rubber	100 ft	Carol	**20PY69**	
16 AWG	Black	EPDM	250 ft	GA	**5GEE1**	
12 AWG	Black	EPDM	250 ft	Carol	**5GEF2**	
10 Conductors						
18 AWG	Black	Rubber	25 ft	GA	**20PX88**	
18 AWG	Black	Rubber	50 ft	Carol	**20PY26**	
18 AWG	Black	Rubber	100 ft	Carol	**20PY63**	
16 AWG	Black	Rubber	25 ft	GA	**20PX95**	
16 AWG	Black	Rubber	50 ft	Carol	**20PY33**	
16 AWG	Black	Rubber	100 ft	Carol	**20PY70**	
12 Conductors						
18 AWG	Black	EPDM	250 ft	Carol	**5GEE5**	
16 AWG	Black	EPDM	250 ft	Carol	**5GEF1**	
14 Conductors						
16 AWG	Black	EPDM	250 ft	Carol	**5GEF5**	
16 Conductors						
16 AWG	Black	EPDM	250 ft	Carol	**5GEE8**	
600 V, STOW, Portable Cord						
3 Conductors						
18 AWG	Black	PVC	250 ft	GA	**2TYL6**	
16 AWG	Black	PVC	250 ft	GA	**2TYL8**	
14 AWG	Black	PVC	250 ft	GA	**2TYN1**	
12 AWG	Black	PVC	250 ft	GA	**2TYN3**	
10 AWG	Black	PVC	250 ft	GA	**2TYN5**	
4 Conductors						
18 AWG	Black	PVC	250 ft	GA	**2TYL7**	
16 AWG	Black	PVC	250 ft	GA	**2TYL9**	
14 AWG	Black	PVC	250 ft	GA	**2TYN2**	
12 AWG	Black	PVC	250 ft	GA	**2TYN4**	
10 AWG	Black	PVC	250 ft	GA	**2TYN6**	

** Super Vu-Tron® Supreme premium jacket.*

Southwire

Bare Copper Grounding Wire

- Rated for 600V
- Temp. rating: 167°F
- 6 AWG stranded: Class B stranding
- 4 AWG stranded: Class A and B stranding

This wire does not have insulation or a jacket and is used to connect a circuit to a grounding rod in the earth.


No. 4WZV1

Wire Size	Nominal O.D.	L	Item No.
Solid			
10 AWG	0.10"	800 ft.	**4WZU9**
8 AWG	0.13"	500 ft.	**4WZU8**
6 AWG	0.16"	25 ft.	**4WZU6**
6 AWG	0.16"	315 ft.	**4WZU7**
4 AWG	0.20"	25 ft.	**4WZU4**
4 AWG	0.20"	200 ft.	**4WZU5**
Stranded			
6 AWG	0.18"	315 ft.	**4WZV2**
4 AWG	0.23"	198 ft.	**4WZV1**

GA GRAINGER APPROVED

CAROL BRAND

Lamp Cord

- Temp. range: -4° to 140°F

Flexible electrical cable used to connect small, portable appliances, like lamps, clocks, and radios, to a power source, usually via a wall socket. It does not include plugs on the ends of the cord.


No. 1W566

Wire Size	Jacket Color	L	Brand	Item No.
300V, SPT-1, Lamp Cord				
2 Conductors				
18 AWG	Brown	250 ft.	GA	**1W566**
18 AWG	White	250 ft.	GA	**2W374**
18 AWG	Black	250 ft.	GA	**4DPD6**
18 AWG	Clear	250 ft.	GA	**4DPD7**
18 AWG	Gold	250 ft.	Carol	**4DPD8**
300V, SPT-2, Lamp Cord				
2 Conductors				
16 AWG	Brown	250 ft.	GA	**4DPE2**
16 AWG	White	250 ft.	GA	**4DPE1**
16 AWG	Black	250 ft.	GA	**4DPD9**

Southwire

Flat Submersible Pump Wire

- PVC insulation

Multiconductor cable connects a submersible pump controller to the motor of the pump. Also known as sub pump wire, it resists oil, lubricants, acids, ozone, and abrasion, making it ideal for wet or hostile environments.


No. 6UTA2

Wire Size	L	Wire Color	Item No.
600V, THW, Flat Submersible Pump Wire			
2 with Insulated CU Ground Conductors			
12 AWG	500 ft.	Black, Green, Red	**6UTA4**
3 with Insulated CU Ground Conductors			
12 AWG	500 ft.	Black, Green, Red, Yellow	**6UTA5**
10 AWG	500 ft.	Black, Green, Red, Yellow	**6UTA7**
600V, THW, Twisted Submersible Pump Wire			
2 with Insulated CU Ground Conductors			
12 AWG	500 ft.	Black, Green, Red	**6UTA2**
10 AWG	500 ft.	Black, Green, Red	**6UTA3**
3 with Insulated CU Ground Conductors			
12 AWG	500 ft.	Black, Green, Red, Yellow	**6CGV8**

CAROL BRAND

SC Portable Cord


No. 1YPX4

- Super Vu-Tron® rubber jacket over copper conductors
- Temp. range: -58° to 221°F (-50° to 105°C)
- TRU-Mark® sequential footage marking

Heavy-duty cable is commonly used to provide temporary power for entertainment industry activities. This cord can be coiled and stored when not in use, making it easy to move from location to location. It can withstand heat and flames, and it's resistant to liquids, solvents, ozone, crushing, and abrasion. UL Type SC, CSA Type PPC, RoHS compliant.

Wire Size	Jacket Color	Jacket Material	L	Item No.
600V, SC, Portable Cord				
6 AWG	Black	EPDM Rubber	1000 ft.	**1YPX9**
2 AWG	Black	EPDM Rubber	1000 ft.	**1YPX7**
2/0	Black	EPDM Rubber	1000 ft.	**1YPX5**
4/0	Black	EPDM Rubber	1000 ft.	**1YPX4**

CAROL BRAND

Welding Cable

- EPDM rubber insulation
- Black, abrasion-resistant Carolprene® jacket
- Rated for 600V
- Temp. rating: 221°F

Flexible, durable electrical cable supplies power to the secondary circuit of electric welders, which controls the electrode that releases the charge needed for the welding process. It has a single, finely stranded conductor, which gives welding cable more flexibility than other types of electrical wire.

Note: Do not use for in-line voltages, which could be hazardous. Designed for use with secondary voltages.


No. 1UGT2

Wire Size	Stranding	Nominal O.D.	Length 50 ft. Item No.	Length 100 ft. Item No.	Length 250 ft. Item No.
600V, Welding Cable					
4 AWG	406 x 30	0.38"	—	—	**1UGT2**
2 AWG	646 x 30	0.46"	**6X777**	**6X778**	**1UGT3**
1 AWG	812 x 30	0.50"	**6X779**	**6X780**	**1UGT4**
1/0	1025 x 30	0.56"	**6X781**	**2W282**	**1UGT5**
2/0	1274 x 30	0.62"	—	**2W283**	**1UGT6**
4/0	2029 x 30	0.75"	—	—	**1UGT7**


No. 22P236


No. 22P237



No. 22P207


No. 22P230

BURNDY

Cable Cutters

These cut ACSR, copper, and aluminum conductors.

Description	Mfr. Model	Item No.
Manual Cable Cutters		
Copper- 600 kcmil, Aluminum- 600 kcmil	RCC600E	**22P235**
Copper- 350 kcmil, Aluminum- 500 kcmil, ACSR- 336 kcmil	RCC336	**22P236**
Copper- 500 kcmil, Aluminum- 500 kcmil, ACSR- 556 kcmil	RCC556	**22P237**
Hydraulic Cable Cutter		
Copper and Aluminum Cable up to 1.29" Dia., ACSR up to 1113 ACSR, Ground Rod up to 5/8", Rebar up to 1/2", Soft Steel Bolts up to 5/8", Standard Guy Strand up to 1/2", EHS Guy Strand up to 3/8"	RHCC129ACSR	**22P207**
Battery Operated Cable Cutters		
For use on: Copper & Aluminum 1.29", ACSR 1113 Kcmil, Ground Rod 5/8", Rebar 1/2", Soft Steel Bolts 5/8", Standard Guy Wire 1/2", EHS Guy Wire 3/8"	PATCUT129LI	**22P215**
Copper and Aluminum up to 2.45"	PATCUT245LI	**22P230**
Copper and Aluminum 1.50" Dia., ACSR 1590, Ground Rod 5/8", Rebar 1/2", Soft Steel Bolts 5/8", Standard Guy Wire 9/16", EHS Guy Wire 9/16", 18V NiMH	PATHCC1018V	**22P242**
Wire Measuring Gauge		
(1/4 - 2 1/2) for CU/AL IPS Tubing, Tubing Sizes 3 1/8 Inside Max., and 2 15/16 Outside Max, Stranded 18 AWG, 2000 kcmil, Thin Wall Conduit 3/8 to 2 1/2	WIREMIKE	**22P122**


No. 2TYZ5


No. 2TYW8

Continuous Flexing Cable

igus®

- Cut to length; sold in spools or by the foot

This is electrical cable that can withstand repetitive motion and constant bending without damage. It has one or more insulated conductors and a flexible jacket that is oil-, flame-, and coolant-resistant.

No. of Cond.	Wire Size	Nominal O.D.	Min. Bend Radius	Order by the Foot Item No.	25 ft. Item No.	100 ft. Item No.
Continuous Flexing Appliance Wiring Communication Cable						
PVC Jacket Material, Gray Jacket Color						
2	24 AWG	0.200"	12 x O.D.	2TZH1	—	—
2	20 AWG	0.220"	12 x O.D.	2TZJ1	—	—
4	24 AWG	0.280"	12 x O.D.	2TZH2	—	—
4	20 AWG	0.310"	12 x O.D.	2TZJ2	2TZX9	2WGX1
6	24 AWG	0.300"	12 x O.D.	2TZH3	2TZX1	2WGW2
6	20 AWG	0.350"	12 x O.D.	2TZJ3	2TZY1	2WGX2
8	24 AWG	0.310"	12 x O.D.	2TZH4	2TZX2	—
8	20 AWG	0.370"	12 x O.D.	2TZJ4	2TZY2	2WGX3
10	24 AWG	0.33"	12 x O.D.	2TZH5	2TZX3	—
10	24 AWG	0.330"	12 x O.D.	—	—	2WGW4
12	24 AWG	0.370"	12 x O.D.	2TZH6	—	2WGW5
16	24 AWG	0.450"	12 x O.D.	2TZH7	2TZX5	2WGW6
20	24 AWG	0.510"	12 x O.D.	2TZH8	2TZX6	2WGW7
28	24 AWG	0.530"	12 x O.D.	2TZH9	2TZX7	2WGW8
300V, Shielded, Continuous Flexing Control Cable						
TPE Jacket Material, Dark Blue Jacket Color						
4	24 AWG	0.25"	5 x O.D.	24C102	—	—
4	18 AWG	0.30"	5 x O.D.	24C108	—	—
7	18 AWG	0.33"	5 x O.D.	24C110	—	—
8	24 AWG	0.30"	5 x O.D.	24C103	—	—
12	24 AWG	0.35"	5 x O.D.	24C104	—	—
24	18 AWG	0.65"	5 x O.D.	24C112	—	—
300V, Unshielded, Continuous Flexing Control Cable						
TPE Jacket Material, Dark Blue Jacket Color						
2	20 AWG	0.20"	5 x O.D.	24C080	—	—
3	24 AWG	0.18"	5 x O.D.	24C074	—	—
3	20 AWG	0.22"	5 x O.D.	24C081	—	—
4	22 AWG	0.20"	5 x O.D.	24C077	—	—
4	20 AWG	0.22"	5 x O.D.	24C082	—	—
4	16 AWG	0.30"	5 x O.D.	24C090	—	—
5	22 AWG	0.22"	5 x O.D.	24C078	—	—
5	20 AWG	0.24"	5 x O.D.	24C083	—	—
5	18 AWG	0.26"	5 x O.D.	24C086	—	—
7	20 AWG	0.28"	5 x O.D.	24C084	—	—
8	24 AWG	0.26"	5 x O.D.	24C075	—	—
8	22 AWG	0.26"	5 x O.D.	24C079	—	—
12	24 AWG	0.31"	5 x O.D.	24C076	—	—
12	20 AWG	0.37"	5 x O.D.	24C085	—	—
12	18 AWG	0.43"	5 x O.D.	24C088	—	—
12	16 AWG	0.55"	5 x O.D.	24C093	—	—
12	14 AWG	0.67"	5 x O.D.	24C099	—	—
600V, Shielded, Continuous Flexing Control Cable						
PVC Jacket Material, Green Jacket Color						
3	18 AWG	0.33"	7.5 x O.D.	2TYZ9	2TZN7	2WGK8
3	16 AWG	0.39"	7.5 x O.D.	2TZA7	2TZP5	2WGL6
4	18 AWG	0.35"	7.5 x O.D.	2TZA1	2TZN8	2WGK9
4	16 AWG	0.41"	7.5 x O.D.	2TZA8	2TZP6	2WGL7
4	14 AWG	0.49"	7.5 x O.D.	2TZC4	2TZR2	2WGP3
5	20 AWG	0.35"	7.5 x O.D.	2TYZ5	2TZN3	2WGK4
5	18 AWG	0.39"	7.5 x O.D.	2TZA2	2TZN9	2WGL1
5	16 AWG	0.43"	7.5 x O.D.	2TZA9	2TZP7	2WGL8
7	20 AWG	0.43"	7.5 x O.D.	2TYZ6	2TZN4	2WGK5
7	18 AWG	0.47"	7.5 x O.D.	2TZA3	2TZP1	2WGL2
7	16 AWG	0.55"	7.5 x O.D.	2TZC1	2TZP8	2WGL9
12	20 AWG	0.51"	7.5 x O.D.	2TYZ7	2TZN5	2WGK6
12	18 AWG	0.55"	7.5 x O.D.	2TZA4	2TZP2	2WGL3
12	16 AWG	0.71"	7.5 x O.D.	2TZC2	2TZP9	2WGP1
18	20 AWG	0.59"	7.5 x O.D.	2TYZ8	2TZN6	2WGK7
18	18 AWG	0.69"	7.5 x O.D.	2TZA5	2TZP3	2WGL4
24	18 AWG	0.71"	7.5 x O.D.	—	2TZP4	—
25	18 AWG	0.71"	7.5 x O.D.	—	—	2WGL5
25	16 AWG	0.96"	7.5 x O.D.	2TZC3	2TZR1	2WGP2
600V, Shielded, Continuous Flexing Tray Cable						
PVC Jacket Material, Gray Jacket Color						
3	16 AWG	0.41"	8 x O.D.	2TZF1	2TZU8	2WGT9
4	18 AWG	0.40"	8 x O.D.	2TZE6	2TZU4	2WGT5
4	16 AWG	0.43"	8 x O.D.	2TZF2	2TZU9	2WGU1
4	14 AWG	0.47"	8 x O.D.	2TZF6	2TZV4	2WGU5
4	12 AWG	0.57"	8 x O.D.	2TZF8	2TZV6	2WGU7
4	10 AWG	0.64"	8 x O.D.	2TZF9	2TZV7	2WGU8
7	18 AWG	0.48"	8 x O.D.	2TZE7	2TZU5	2WGT6
7	16 AWG	0.53"	8 x O.D.	2TZF3	2TZV1	2WGU2
7	14 AWG	0.59"	8 x O.D.	2TZF7	2TZV5	2WGU6
12	18 AWG	0.58"	8 x O.D.	2TZE8	2TZU6	2WGT7
12	16 AWG	0.64"	8 x O.D.	2TZF4	2TZV2	2WGU3
18	18 AWG	0.66"	8 x O.D.	2TZE9	2TZU7	2WGT8
25	16 AWG	0.85"	8 x O.D.	2TZF5	2TZV3	2WGU4
600V, Unshielded, Continuous Flexing Control Cable						
PVC Jacket Material, Green Jacket Color						
3	20 AWG	0.24"	7.5 x O.D.	2TYW8	2TZJ6	2WGG7
3	16 AWG	0.31"	7.5 x O.D.	2TYY2	2TZK9	2WGJ1
4	18 AWG	0.28"	7.5 x O.D.	2TYX3	2TZK1	2WGH2
4	16 AWG	0.35"	7.5 x O.D.	2TYY3	2TZL1	2WGJ2
4	14 AWG	0.43"	7.5 x O.D.	2TYY9	2TZL7	2WGJ8
5	18 AWG	0.31"	7.5 x O.D.	2TYX4	2TZK2	2WGH3
5	16 AWG	0.39"	7.5 x O.D.	2TYY4	2TZL2	2WGJ3
5	14 AWG	0.47"	7.5 x O.D.	2TYZ1	2TZL8	2WGJ9
7	20 AWG	0.31"	7.5 x O.D.	2TYW9	2TZJ7	2WGG8
7	18 AWG	0.35"	7.5 x O.D.	2TYX5	2TZK3	2WGH4
7	16 AWG	0.51"	7.5 x O.D.	2TYY5	2TZL3	2WGJ4
7	14 AWG	0.59"	7.5 x O.D.	2TYZ2	2TZL9	2WGK1
12	20 AWG	0.45"	7.5 x O.D.	2TYX1	2TZJ8	2WGG9
12	18 AWG	0.55"	7.5 x O.D.	2TYX6	2TZK4	2WGH5
12	16 AWG	0.63"	7.5 x O.D.	2TYY6	2TZL4	2WGJ5
18	20 AWG	0.53"	7.5 x O.D.	2TYX2	2TZJ9	2WGH1
18	18 AWG	0.71"	7.5 x O.D.	2TYX7	2TZK5	2WGH6
18	16 AWG	0.87"	7.5 x O.D.	2TYY7	2TZL5	2WGJ6
18	14 AWG	1.08"	7.5 x O.D.	2TYZ3	2TZN1	2WGK2
25	18 AWG	0.75"	7.5 x O.D.	2TYX8	2TZK6	2WGH7
25	16 AWG	0.94"	7.5 x O.D.	2TYY8	2TZL6	2WGJ7
25	14 AWG	1.24"	7.5 x O.D.	2TYZ4	2TZN2	2WGK3
36	18 AWG	0.87"	7.5 x O.D.	2TYX9	2TZK7	2WGH8
42	18 AWG	0.91"	7.5 x O.D.	2TYY1	2TZK8	2WGH9
600V, Unshielded, Continuous Flexing Tray Cable						
PVC Jacket Material, Gray Jacket Color						
3	16 AWG	0.33"	8 x O.D.	2TZD2	2TZR9	2WGR1
4	18 AWG	0.33"	8 x O.D.	2TZC5	2TZR3	2WGP4
4	16 AWG	0.36"	8 x O.D.	2TZD3	2TZT1	2WGR2
4	14 AWG	0.39"	8 x O.D.	2TZE1	2TZT8	2WGR9
4	12 AWG	0.49"	8 x O.D.	2TZE4	2TZU2	2WGT3
4	10 AWG	0.56"	8 x O.D.	2TZE5	2TZU3	2WGT4
5	18 AWG	0.35"	8 x O.D.	2TZC6	2TZR4	2WGP5
5	16 AWG	0.39"	8 x O.D.	2TZD4	2TZT2	2WGR3
7	18 AWG	0.40"	8 x O.D.	2TZC7	2TZR5	2WGP6
7	16 AWG	0.45"	8 x O.D.	2TZD5	2TZT3	2WGR4
7	14 AWG	0.51"	8 x O.D.	2TZE2	2TZT9	2WGT1
12	18 AWG	0.50"	8 x O.D.	2TZC8	2TZR6	2WGP7
12	16 AWG	0.56"	8 x O.D.	2TZD6	2TZT4	2WGR5
12	14 AWG	0.62"	8 x O.D.	2TZE3	2TZU1	2WGT2
18	18 AWG	0.58"	8 x O.D.	2TZC9	2TZR7	2WGP8
18	16 AWG	0.65"	8 x O.D.	2TZD7	2TZT5	2WGR6
25	18 AWG	0.69"	8 x O.D.	2TZD1	2TZR8	2WGP9
25	16 AWG	0.77"	8 x O.D.	2TZD8	2TZT6	2WGR7
33	16 AWG	0.85"	8 x O.D.	2TZD9	2TZT7	2WGR8
1000V, Shielded, Continuous Flexing Control Cable						
Polyurethane Jacket Material, Gray Jacket Color						
3	18 AWG	0.31"	7.5 x O.D.	24C032	24C047	24C062
3	16 AWG	0.37"	7.5 x O.D.	24C037	24C052	24C067
4	16 AWG	0.39"	7.5 x O.D.	24C038	24C053	24C068
4	14 AWG	0.45"	7.5 x O.D.	24C042	24C057	24C072
5	20 AWG	0.33"	7.5 x O.D.	24C029	24C044	24C059
5	18 AWG	0.37"	7.5 x O.D.	24C033	24C048	24C063
5	16 AWG	0.41"	7.5 x O.D.	24C039	24C054	24C069
7	20 AWG	0.37"	7.5 x O.D.	24C030	24C045	24C060
7	18 AWG	0.41"	7.5 x O.D.	24C034	24C049	24C064
7	16 AWG	0.49"	7.5 x O.D.	24C040	24C055	24C070
7	14 AWG	0.57"	7.5 x O.D.	24C043	24C058	24C073
12	20 AWG	0.49"	7.5 x O.D.	24C031	24C046	24C061
12	18 AWG	0.53"	7.5 x O.D.	24C035	24C050	24C065
12	16 AWG	0.61"	7.5 x O.D.	24C041	24C056	24C071
18	18 AWG	0.61"	7.5 x O.D.	24C036	24C051	24C066
1000V, Shielded, Continuous Flexing Power Cable						
PVC Jacket Material, Black Jacket Color						
4	16 AWG	0.43"	7.5 x O.D.	2TZG5	2TZW3	2WGV4
4	14 AWG	0.49"	7.5 x O.D.	2TZG6	2TZW4	2WGV5
4	12 AWG	0.55"	7.5 x O.D.	2TZG7	2TZW5	2WGV6
4	10 AWG	0.67"	7.5 x O.D.	2TZG8	2TZW6	2WGV7
4	6 AWG	0.95"	7.5 x O.D.	2TZG9	2TZW7	2WGV8
TPE Jacket Material, Black Jacket Color						
1	350 MCM	1.04"	7.5 x O.D.	24C164	—	—
1	300 MCM	0.94"	7.5 x O.D.	24C163	—	—
1	12 AWG	0.26"	7.5 x O.D.	24C153	—	—
1	4/0	0.87"	7.5 x O.D.	24C162	—	—
4	10 AWG	0.61"	7.5 x O.D.	24C140	—	—
1000V, Unshielded, Continuous Flexing Control Cable						
Polyurethane Jacket Material, Gray Jacket Color						
3	18 AWG	0.24"	7.5 x O.D.	24A975	24A994	24C014
3	16 AWG	0.28"	7.5 x O.D.	24A981	24C001	24C020
4	20 AWG	0.24"	7.5 x O.D.	24A971	24A990	24C010
4	18 AWG	0.26"	7.5 x O.D.	24A976	24A995	24C015
4	16 AWG	0.29"	7.5 x O.D.	24A982	24C002	24C021
4	14 AWG	0.35"	7.5 x O.D.	24A988	24C008	24C027
5	20 AWG	0.26"	7.5 x O.D.	24A972	24A991	24C011
5	18 AWG	0.28"	7.5 x O.D.	24A977	24A996	24C016
5	16 AWG	0.31"	7.5 x O.D.	24A983	24C003	24C022
7	18 AWG	0.31"	7.5 x O.D.	24A978	24A997	24C017
7	16 AWG	0.39"	7.5 x O.D.	24A984	24C004	24C023
7	14 AWG	0.49"	7.5 x O.D.	24A989	24C009	24C028
12	20 AWG	0.39"	7.5 x O.D.	24A973	24A992	24C012
12	18 AWG	0.45"	7.5 x O.D.	24A979	24A998	24C018
12	16 AWG	0.55"	7.5 x O.D.	24A985	24C005	24C024
18	20 AWG	0.47"	7.5 x O.D.	24A974	24A993	24C013
18	16 AWG	0.67"	7.5 x O.D.	24A986	24C006	24C025
20	18 AWG	0.55"	7.5 x O.D.	24A980	24A999	24C019
25	16 AWG	0.77"	7.5 x O.D.	24A987	24C007	24C026
1000V, Unshielded, Continuous Flexing Power Cable						
PVC Jacket Material, Black Jacket Color						
4	14 AWG	0.41"	7.5 x O.D.	2TZG1	2TZV8	2WGU9
4	12 AWG	0.47"	7.5 x O.D.	2TZG2	2TZV9	2WGV1
4	10 AWG	0.57"	7.5 x O.D.	2TZG3	2TZW1	2WGV2
4	8 AWG	0.71"	7.5 x O.D.	2TZG4	2TZW2	2WGV3
TPE Jacket Material, Black Jacket Color						
1	10 AWG	0.28"	7.5 x O.D.	24C142	—	—
1	8 AWG	0.31"	7.5 x O.D.	24C143	—	—
1	4 AWG	0.45"	7.5 x O.D.	24C145	—	—
1	2 AWG	0.49"	7.5 x O.D.	24C146	—	—
1	1 AWG	0.57"	7.5 x O.D.	24C147	—	—
4	14 AWG	0.39"	7.5 x O.D.	24C134	—	—
4	10 AWG	0.55"	7.5 x O.D.	24C135	—	—
4	6 AWG	0.77"	7.5 x O.D.	24C137	—	—


No. 1ATJ4


No. 5PA18

GeneralCable CAROL BRAND

Security and Alarm Cable

SOUND, ALARM, AND SECURITY CABLE, TYPES CMR AND CMP

For burglar alarms, intercoms, PA systems, and sound systems. Stranded or solid bare copper conductor. Jacket has sequential footage markings to facilitate installation. UL Listed and California State Fire Marshall Approved.

Shielded cable has an aluminum/polyester Flexfoil® shield with stranded, tinned-copper drain wire.

Riser

- Temp. range: -4° to 167°F, except 500-ft. 22-ga. unshielded are -4° to 140°F
- Rated for 300V

Ripcord included.

Plenum

- Temp. range: 32° to 167°F
- Rated for 300V

FIRE ALARM/LIFE SAFETY CABLE, TYPES FPLR AND FPLP

- Compliance: NEC Article 760-61
- Type FPLR meets UL 1666 Vertical Tray Flame Test
- 500-ft. Type FPLP meets UL 910 Test for Flame Propagation and Smoke Density
- 1000-ft. Type FPLP meets NFPA 262 Vertical Tray Flame Test
- Temp. range: -4° to 167°F, except 1000-ft. Type FPLP 32° to 167°F
- Rated for 300V

Ripcord included. California State Fire Marshall Approved. Shielded cable has foil shield with stranded tinned copper drain wire. For wiring fire alarms, smoke detectors, fire protective circuits, burglar alarms, and voice communications. Sequential footage markings to facilitate installation.

Conductor Size	No. of Cond.	L	UNSHIELDED Riser Rated Item No.	UNSHIELDED Plenum Rated Item No.	SHIELDED Riser Rated Item No.	SHIELDED Plenum Rated Item No.
Sound, Alarm, and Security Cable, PVC, Beige, Stranded						
22 AWG	2	500 ft.	1ATG9	—	—	—
Sound, Alarm, and Security Cable, PVC, Riser Cable Gray, Plenum Cable Natural, Stranded						
22 AWG	2	500 ft.	—	—	1ATJ8	—
22 AWG	2	1000 ft.	4DPJ1	—	4DPK1	4DPL7
22 AWG	4	500 ft.	—	—	1ATJ9	—
22 AWG	4	1000 ft.	4DPJ2	4DPK8	4DPK2	4DPL8
22 AWG	6	500 ft.	—	—	1ATK6	—
22 AWG	6	1000 ft.	4DPJ3	4DPK9	4DPK3	4DPL9
22 AWG	8	500 ft.	—	—	1ATK7	—
20 AWG	2	1000 ft.	—	—	4DPK4	4DPN1
18 AWG	2	500 ft.	1ATJ3	1ATJ6	4DPN4	4DPN7
18 AWG	4	500 ft.	1ATJ4	1ATJ7	4DPN5	4DPN8
18 AWG	6	500 ft.	—	—	4DPN6	—
18 AWG	6	1000 ft.	4DPJ5	4DPL2	—	4DPN9
16 AWG	2	1000 ft.	4DPJ6	4DPL3	4DPK5	4DPN2
16 AWG	4	1000 ft.	4DPJ7	4DPL4	6UTX5	—
14 AWG	2	1000 ft.	4DPJ8	4DPL5	4DPK6	4DPN3
14 AWG	4	1000 ft.	4DPJ9	—	—	—
Fire Alarm Cable, PVC, Red, Solid						
18 AWG	2	500 ft.	5PA18	—	5PA24	5PA30
18 AWG	4	500 ft.	5PA19	—	5PA25	—
18 AWG	4	1000 ft.	—	4DNZ6	—	4DPA7
18 AWG	6	1000 ft.	—	4DNZ7	—	—
16 AWG	2	500 ft.	—	—	5PA26	—
16 AWG	2	1000 ft.	4DNZ4	4DNZ8	4DPA4	4DPA8
16 AWG	4	1000 ft.	4DNZ5	4DNZ9	4DPA5	4DPA9
14 AWG	2	500 ft.	5PA22	5PA29	—	—
14 AWG	2	1000 ft.	6UTX8	6UTX7	—	4DPC1
14 AWG	4	500 ft.	5PA23	—	—	—
14 AWG	4	1000 ft.	6UTX9	4DPA1	4DPA6	4DPC2
12 AWG	2	1000 ft.	6UTX4	—	—	—


No. 3NXN5


No. 3NXN6


No. 3NXN7

CAROL BRAND GeneralCable

Sprinkler Wire and Irrigation Cable

- UL Listed for outdoor and direct burial use
- Operating temp.: -4° to 140°F
- Premium-grade, color-coded insulation
- Fully annealed, solid bare copper conductors

Ripcord included. For use in low-voltage commercial, golf course, and residential satellite or solenoid sprinkler control applications.

Wire Size	Jacket Material	Jacket Color	L	Item No.
30V, Sprinkler Wire				
5 Conductors				
18 AWG	PVC	Black	500 ft.	3NXN5
7 Conductors				
18 AWG	PVC	Black	500 ft.	3NXN6
10 Conductors				
18 AWG	PVC	Black	500 ft.	3NXN7
150V, Irrigation Cable				
1 Conductors				
14 AWG	PVC	Red	500 ft.	5ZJR5
14 AWG	PVC	White	500 ft.	5ZJR6
14 AWG	PVC	Black	500 ft.	5ZJR9


No. 4A633

Electronic Power-Limited Tray Cable (PLTC)

GeneralCable CAROL BRAND

- Temp. range: -4° to 221°F
- Resists sunlight
- Stranded conductors
- Gray PVC jacket
- Rated for 300V

Shielded cable has aluminum/polyester Flexfoil® shield with a 25% overlap and outward-facing foil. Premium-grade PVC insulation is color-coded. Suitable for burglar alarms, intercom systems, cash registers, and equipment control circuits.

No. of Cond.	Conductor Size	Mfr. Model	100 ft. Item No.	500 ft. Item No.	1000 ft. Item No.
Multi-Conductor, Unshielded					
2	18 AWG	C0435A	—	—	5ZJL9
2	16 AWG	C0437A	20KZ71	19G425	—
2	14 AWG	C0439A	20KZ72	—	—
3	18 AWG	C0436A	20KZ70	—	19G424
4	18 AWG	C0444A	20KZ97	—	—
Multi-Conductor, Shielded					
2	22 AWG	C0450A	—	—	4DPC3
2	20 AWG	C0452A	—	—	4DPC5
2	18 AWG	C0454A	20KZ73	4A633	4DPC7
2	16 AWG	C0456A	20KZ75	4A648	4DPC9
2	14 AWG	C0458A	20KZ98	—	4DPD2
3	22 AWG	C0451A	—	—	4DPC4
3	20 AWG	C0453A	—	—	4DPC6
3	18 AWG	C0455A	20KZ74	—	4DPC8
3	16 AWG	C0457A	20KZ76	—	4DPD1
3	14 AWG	C0459A	—	—	4DPD3
Multi-Paired, Shielded					
4	18 AWG	C0584A	—	—	19G438 *
4	18 AWG	C0560A	20LA01	—	19G434
4	18 AWG	C0562A	20LA02	—	—
6	18 AWG	C0561A	—	—	19G435

** Individually shielded.*


No. 2W799


No. 1ATD9

Speaker Cable

GeneralCable CAROL BRAND

FLAT

- Compliance: UL Wires Misc.
- Stranded conductors and PVC insulation
- PVC jacket
- Rated for 120V

For general audio speaker use. Not for in-wall use.

ROUND

- Temp. range: -4° to 140°F (176°F on high-definition)
- Stranded bare copper conductors with premium color-coded polypropylene insulation
- PVC jacket

Designed for stereo systems, in-wall speakers, home theater, and remote control circuits.

No. of Cond.	Color	L	18 AWG Item No.	16 AWG Item No.	14 AWG Item No.	12 AWG Item No.
Flat						
2	Clear	500 ft.	2W799	4DPD4	4DPD5	—
2	Clear	100 ft.	—	—	20LA27	20LA28
Round						
2	Blue	500 ft.	—	1ATD9	—	—
4	Navy	100 ft.	—	20LA32	—	—


No. 5LWR3


No. 6CGV6

Type CL2 Thermostat Cable

Southwire

- Polypropylene insulation
- PVC conductors and jacket
- Rated for 150V; plenum rated are 300V
- Operating temp: -20° to 60°C

Solid cable for low-voltage wiring meets Article 725 and is UL Listed.

No. of Cond.	Spool/ Coil Length	20 AWG Brown Jacket Item No.	18 AWG Brown Jacket Item No.	18 AWG White Jacket Item No.
Nonplenum				
2	500 ft.	5LWR3	5LWP5	6CGV2
3	500 ft.	6CGV7	5LWP9	6CGV6
4	250 ft.	5LWR2	5LWP7	6CGV4
5	250 ft.	5LWR4	5LWP8	6CGV5
6	250 ft.	5LWR0	5LWP6	6CGV3
8	250 ft.	5LWR1	5LWP4	6CGV1
Plenum				
2	500 ft.	—	—	30C849
3	500 ft.	—	—	30C850
4	250 ft.	—	—	30C851
5	250 ft.	—	—	30C852
6	250 ft.	—	—	30C853
8	250 ft.	—	—	30C854



No. 1YPY5



No. 19G597

Communication Cable

CAROL BRAND GeneralCable

- Fully annealed, stranded tinned copper conductors
- Color coded
- 1000-ft. rolls

Cables facilitate cable pull-ins and single-site installations. These cables are typically used for industrial equipment control, electric valve actuation, and remote signaling. Also used for communications and broadcast applications. Multi-paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances, and a reduction of EMI interference currents.

Note: 100- and 500-ft. rolls are available on Grainger.com®.

Conductor Size	Total No. of Conductors	Jacket Material	Jacket Color	Nominal O.D.	Temp. Range	Item No.
Multi-Conductor, Shielded						
24 AWG	2 (0 Pair)	PVC	Gray	0.167"	-4° to 167°F	**4DNY8**
	3 (0 Pair)	PVC	Gray	0.164"	-4° to 176°F	**5ZJN0**
	4 (0 Pair)	PVC	Gray	0.175"	-4° to 176°F	**5ZJN1**
	6 (0 Pair)	PVC	Gray	0.201"	-4° to 176°F	**5ZJN2**
	15 (0 Pair)	PVC	Gray	0.276"	-4° to 176°F	**19G454**
22 AWG	2 (0 Pair)	PVC	Gray	0.169"	-4° to 176°F	**5ZJN3**
	2 (0 Pair)	PVC	Gray	0.167"	-4° to 167°F	**19G550**
	3 (0 Pair)	PVC	Gray	0.177"	-4° to 176°F	**5ZJN4**
	3 (0 Pair)	PVC	Gray	0.196"	-4° to 167°F	**19G555**
	4 (0 Pair)	PVC	Gray	0.190"	-4° to 176°F	**5ZJN5**
	4 (0 Pair)	PVC	Gray	0.213"	-4° to 167°F	**19G553**
	6 (0 Pair)	PVC	Gray	0.219"	-4° to 176°F	**5ZJN6**
20 AWG	2 (0 Pair)	PVC	Gray	0.183"	-4° to 167°F	**2W594**
	2 (0 Pair)	Rubber	Black	0.270"	-4° to 140°F	**1YPY4**
	3 (0 Pair)	Rubber	Black	0.285"	-4° to 140°F	**1YPY5**
	4 (0 Pair)	Rubber	Black	0.300"	-4° to 140°F	**1YPY6**
	4 (0 Pair)	PVC	Gray	0.236"	-4° to 176°F	**5ZJN7**
	4 (0 Pair)	PVC	Gray	0.234"	-4° to 167°F	**4DNY9**
18 AWG	2 (0 Pair)	PVC	Gray	0.203"	-4° to 221°F	**5ZJP9**
	2 (0 Pair)	PVC	Gray	0.233"	-4° to 167°F	**2W595**
	3 (0 Pair)	PVC	Natural	0.169"	32° to 167°F	**5ZJP0**
	3 (0 Pair)	PVC	Gray	0.213"	-4° to 167°F	**19G557**
	4 (0 Pair)	PVC	Gray	0.238"	-4° to 176°F	**4DNZ1**
	4 (0 Pair)	PVC	Natural	0.185"	32° to 167°F	**5ZJN9**
	6 (0 Pair)	Rubber	Black	0.370"	-4° to 140°F	**1YPY2**
16 AWG	2 (0 Pair)	PVC	Gray	0.307"	-4° to 167°F	**19G558**
	3 (0 Pair)	PVC	Gray	0.325"	-4° to 167°F	**19G559**
	4 (0 Pair)	Rubber	Black	0.385"	-4° to 140°F	**19G498**

Conductor Size	Total No. of Conductors	Jacket Material	Jacket Color	Nominal O.D.	Temp. Range	Item No.
Multi-Conductor, Unshielded						
24 AWG	8 (0 Pair)	PVC	Gray	0.214"	-4° to 176°F	**19G545**
	10 (0 Pair)	PVC	Gray	0.244"	-4° to 176°F	**19G548**
22 AWG	2 (0 Pair)	PVC	Gray	0.130"	-4° to 176°F	**5ZJR0**
	3 (0 Pair)	PVC	Gray	0.176"	-4° to 176°F	**19G593**
	4 (0 Pair)	PVC	Gray	0.189"	-4° to 176°F	**19G594**
	6 (0 Pair)	PVC	Gray	0.218"	-4° to 176°F	**19G597**
	8 (0 Pair)	PVC	Gray	0.230"	-4° to 176°F	**19G596**
	12 (0 Pair)	PVC	Gray	0.276"	-4° to 176°F	**19G598**
20 AWG	2 (0 Pair)	PVC	Gray	0.192"	-4° to 176°F	**4DNZ2**
	4 (0 Pair)	PVC	Gray	0.235"	-4° to 176°F	**19G635**
	5 (0 Pair)	PVC	Gray	0.254"	-4° to 176°F	**5ZJR1**
18 AWG	2 (0 Pair)	PVC	Natural	0.156"	32° to 167°F	**5ZJP1** #
	2 (0 Pair)	PVC	Natural	0.156"	32° to 167°F	**5ZJP2**
	2 (0 Pair)	PVC	Gray	0.190"	-4° to 176°F	**19G565**
	3 (0 Pair)	PVC	Natural	0.166"	32° to 167°F	**5ZJP4**
	3 (0 Pair)	PVC	Gray	0.236"	-4° to 176°F	**19G566**
	4 (0 Pair)	PVC	Natural	0.182"	32° to 167°F	**5ZJP3**
	4 (0 Pair)	PVC	Gray	0.258"	-4° to 176°F	**19G525**
	5 (0 Pair)	PVC	Gray	0.280"	-4° to 176°F	**19G530**
	7 (0 Pair)	PVC	Gray	0.309"	-4° to 176°F	**19G531**
	8 (0 Pair)	PVC	Natural	0.239"	32° to 167°F	**5ZJP5**
	9 (0 Pair)	PVC	Gray	0.358"	-4° to 176°F	**19G532**
	15 (0 Pair)	PVC	Gray	0.445"	-4° to 176°F	**19G533**
	19 (0 Pair)	PVC	Gray	0.469"	-4° to 176°F	**19G534**
16 AWG	2 (0 Pair)	PVC	Gray	0.260"	-4° to 176°F	**19G526**
	4 (0 Pair)	PVC	Gray	0.306"	-4° to 176°F	**19G535**
14 AWG	2 (0 Pair)	PVC	Gray	0.326"	-4° to 194°F	**4DNZ3** †
	2 (0 Pair)	PVC	Natural	0.212"	32° to 167°F	**5ZJP6**
Multi-Paired, Shielded						
22 AWG	4 (2 Pair)	PVC	Gray	0.160"	-4° to 176°F	**19G496**
	6 (3 Pair)	PVC	Gray	0.292"	-4° to 176°F	**2W598**
18 AWG	6 (3 Pair)	PVC	Gray	0.395"	-4° to 176°F	**19G623**

† CL3 and CMG only. # Pull Pac.



No. 3ZK54



No. 3ZK55

CAROL BRAND

Coaxial Cable

Coaxial Cable Type	Conductor Size	Color	Impedance	Shielding Type	Capacitance	Nominal O.D.	L	Mfr. Model	Item No.
RG-11/U	14 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft.	0.395"	1000 FT.	C5039.41.01	**21Y738**
	14 AWG	Black	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, (2) 40% Aluminum Braids	16.2 pf/ft.	0.405"	1000 FT.	C5044.41.01	**21Y741**
	14 AWG	White	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, (2) 40% Aluminum Braids	16.0 pf/ft.	0.372"	1000 FT.	C3529.41.02	**21Y723**
RG-174/U	26 AWG	Black	50 Ohms	88% Tinned Copper Braid	13.6 pf/ft.	0.103"	1000 FT.	C1156.41.01	**21Y693**
RG-213/U	13 AWG	Black	50 Ohms	95% Bare Copper Braid	30.8 pf/ft.	0.405"	100 FT.	C1176A	**20LA20**
	13 AWG	Black	50 Ohms	95% Bare Copper Braid	30.8 pf/ft.	0.405"	1000 FT.	C1176A.41.01	**21Y695**
RG-58/AU	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	26.0 pf/ft.	0.195"	1000 FT.	C1188.21.01	**3ZK54**
	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	30.8 pf/ft.	0.195"	1000 FT.	C1178A.21.01	**21Y696**
RG-58/U	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	30.0 pf/ft.	0.195"	1000 FT.	C1166.41.01	**5ZJN8**
	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	13.6 pf/ft.	0.195"	1000 FT.	C1155.41.01	**21Y691**
RG-59/U	20 and 18/2 AWG	Black	71 Ohms	95% Bare Copper Braid	16.2 pf/ft.	0.238" x 0.440"	1000 FT.	C8028.41.01	**3NXL8**
	20 AWG	Black	71 Ohms	95% Bare Copper Braid	16.2 pf/ft.	0.234"	1000 FT.	C1142.41.01	**3NXL5**
	20 AWG	Black	75 Ohms	100% Flexfoil, 40% Aluminum Braid	16.2 pf/ft.	0.234"	1000 FT.	C5780.41.01	**21Y747**
	22 AWG	Black	76 Ohms	95% Bare Copper Braid	17.0 pf/ft.	0.242"	100 FT.	C1103	**20LA19**
	22 AWG	Black	76 Ohms	95% Bare Copper Braid	17.0 pf/ft.	0.242"	1000 FT.	C1103.41.01	**3NXL4**
	23 AWG	Black	73 Ohms	95% Bare Copper Braid	21.0 pf/ft.	0.242"	1000 FT.	C1106.41.01	**21Y684**
RG-6/U	18 and 18/2 AWG	Black	75 Ohms	100% Foil, 95% Tinned Copper Braid	16.2 pf/ft.	0.270" x 0.493"	1000 FT.	C8029.41.01	**3NXL7**
	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft.	0.275"	1000 FT.	C5775.31.01	**3ZK56**
	18 AWG	White	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft.	0.275"	1000 FT.	C5775.41.02	**6XWT6**
	18 AWG	White	75 Ohms	Quad-Shield, (2) 100% Flexfoil, 60% Aluminum Braid, 40% Aluminum Braid	16.2 pf/ft.	0.292"	1000 FT.	C5785.41.02	**6XWT7**
	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft.	0.275"	1000 FT.	C5886.31.01	**21Y751** *
	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft.	0.275"	1000 FT.	C5886.41.01	**21Y752**
	18 AWG	Black	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, (2) 40% Aluminum Braids	16.2 pf/ft.	0.292"	1000 FT.	C5889.31.01	**21Y753** *
	18 AWG	Black	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, (2) 40% Aluminum Braids	16.2 pf/ft.	0.292"	1000 FT.	C5889.41.01	**21Y754**
	18 AWG	Natural	75 Ohms	95% Bare Copper Braid	16.2 pf/ft.	0.232"	1000 FT.	495035.41.86	**21Y957**
RG-62/U	22 AWG	Black	93 Ohms	95% Bare Copper Braid	13.6 pf/ft.	0.242"	1000 FT.	C1164.41.01	**2W592**
RG-8/U	10 AWG	Black	50 Ohms	100% Flexfoil, 88% Tinned Copper Braid	24.6 pf/ft	0.405"	1000 FT.	C1180.41.01	**21Y697**
	13 AWG	Black	52 Ohms	95% Bare Copper Braid	29.5 pf/ft.	0.405"	1000 FT.	C1154.41.01	**21Y689**
Plenum Rated									
RG-11/U	14 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft.	0.351"	1000 FT.	C3528.41.02	**3NXN1**
RG-58/U	19 AWG	Natural	50 Ohms	95% Bare Copper Braid	25.0 pf/ft.	0.161"	1000 FT.	C3519.41.86	**3ZK55**
RG-59	20 AWG	Blue	78 Ohms	100% Flexfoil, 57% Tinned Copper Braid	19.2 pf/ft.	0.242"	1000 FT.	C8001.41.07	**21Y755**
RG-59/U	20 and 18/2 AWG	Natural	75 Ohms	95% Bare Copper Braid	16.3 pf/ft.	0.200" x 0.383"	1000 FT.	C8030.41.86	**5ZJR2**
RG-6/U	18 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft.	0.232"	100 FT.	C3524	**20KZ88**
	18 AWG	Natural	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, 40% Aluminum Braid	16.0 pf/ft.	0.306"	100 FT.	C3525	**20KZ89**
	18 AWG	Natural	75 Ohms	100% Flexfoil, 95% Tinned Copper Braid	16.0 pf/ft.	0.233"	1000 FT.	C3521.41.86	**3ZK58**
	18 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft.	0.232"	1000 FT.	C3524.41.86	**4DNY5**
	18 AWG	Natural	75 Ohms	(2) 100% Flexfoil, 60% Aluminum Braid, 40% Aluminum Braid	16.0 pf/ft.	0.306"	1000 FT.	C3525.41.86	**4DNY6**
RG-8/U	11 AWG	Black	50 Ohms	95% Bare Copper Braid	26.0 pf/ft.	0.405"	1000 FT.	C1198.41.01	**21Y698**

** Pull-Pac® packaging.*

MONOPRICE

Coaxial Cables

Feature F-type connectors. RG-6 quad shielded.
18 AWG. In-wall rated. 75-ohm impedance.

Color	1 ft. 6" Item No.	3 ft. Item No.	6 ft. Item No.	10 ft. Item No.	12 ft. Item No.	15 ft. Item No.
White	14C399	5RGN6	5RGN8	14C403	—	—
Black	—	5RGN5	5RGN7	14C393	5RGP1	14C395



No. 5RGN8



No. 4JY51



No. 5LR24



No. 5LR15



No. 1UKD4



No. 5LR18



No. 4LWY6



No. 4LWY3



No. 4LWY8

Coaxial Connectors

For installation tools, see page 366.

Cable Type	Installation Method	Brand	Item No.	Pkg. Qty.
BNC Femaile				
Coaxial, In-Line Splice Coupler	—	Power First	**4JY57**	5
BNC Male				
RG-59	Compression	Power First	**2UYH2**	15
RG-59	Crimp-On (3 Piece)	Power First	**4JY52**	5
RG-59	Twist-On	Power First	**4JY51**	5
RG-59 Plenum	Compression	IDEAL	**6KJT2**	15
RG-6	Compression	Power First	**2UYH1**	15
F-Type Female				
Coaxial, In-Line Splice Coupler	—	Power First	**5LR24**	1
F-Type Male				
Coaxial, Terminator Cap	Compression	Power First	**5LR15**	1
RG-11	Compression	Power First	**4LWY5**	10
RG-59	Compression	Power First	**5LR17**	1
RG-59	Compression	Power First	**1UKD7**	50
RG-59	Twist-On	Power First	**5LR23**	1
RG-59 with Single/Tri/ Quad Shielding	Compression	Power First	**4UJL4**	50
RG6	Compression	Power First	**1UKD8**	50
RG-6	Compression	Power First	**1UKD4**	10

Cable Type	Installation Method	Brand	Item No.	Pkg. Qty.
RG-6	Crimp-On	Power First	**5LR16**	1
RG-6	Crimp-On (2 Piece)	Power First	**5LR18**	1
RG-6	Push-On	Power First	**4LWY6**	4
RG-6	Push-On	Power First	**4LWY7**	4
RG-6	Twist-On	Power First	**5LR22**	1
RG-6 with Single/Tri/Quad Shielding	Compression	Power First	**4UJL3**	4
RG-6 with Single/Tri/Quad Shielding	Compression	Power First	**4LWY3**	10
RG-6 with Single/Tri/Quad Shielding	Compression	Power First	**4PCZ5**	50
RCA Male				
RG-59	Compression	Power First	**4LWY8**	10
RG-6	Compression	Power First	**4LWY9**	10

Description	3-WAY Item No.	4-WAY Item No.	5-WAY Item No.
Cable Splitter			
5-900 MHz Splitter, 75 Ohm	**5LR25**	**5LR26**	**5LR27**
High Performance Splitter, 5 MHz - 1 GHz	**4JWT7**	—	**4JWT9**
Satellite and Digital TV Splitter, 5 MHz - 2.3 GHz	**4LWZ1**	**4LWZ2**	**4LWZ3**
Surge Suppression Splitter, 5 MHz - 1 GHz	**4LWZ4**	—	**4LWZ5**
Diplexer, SATV/TV Combiner Splitter, 2.1 GHz	**4LWZ6**	—	—



No. 11Y862



No. 11Y878



No. 12H896



No. 12H892



No. 12H915

Coax Connectors

For installation tools, see page 366.

Cable Type	Installation Method	IMPEDANCE 50 ohms Item No.	IMPEDANCE 75 ohms Item No.
BNC Female Coaxial Connector			
RG-58	Crimp-On (2 Piece)	**11Y889**	—
RG-58	Crimp-On (3 Piece)	**11Y894**	**12H888**
RG-58	Twist-On	**11Y884**	—
RG-58 Plenum	Crimp-On (2 Piece)	—	**12H882**
RG-59/62	Crimp-On (2 Piece)	**11Y890**	**12H879**
RG-59/62	Crimp-On (3 Piece)	**11Y895**	**12H889**
RG-59/62	Twist-On	**11Y885**	**12H884**
RG-59/62 Plenum	Crimp-On (2 Piece)	**11Y892**	**12H881**
RG-59/62 Plenum	Crimp-On (3 Piece)	**11Y897**	**12H891**
RG-59/62 Plenum	Twist-On	**11Y887**	**12H886**
RG-6	Crimp-On (2 Piece)	**11Y891**	**12H880**
RG-6	Crimp-On (3 Piece)	**11Y896**	**12H890**
RG-6	Twist-On	**11Y886**	**12H885**
RG-6 Plenum	Crimp-On (2 Piece)	**11Y893**	**12H883**
RG-6 Plenum	Crimp-On (3 Piece)	**11Y898**	—
RG-6 Plenum	Twist-On	**11Y888**	**12H887**
BNC Male Coaxial Connector			
Belden 8218	Crimp-On (3 Piece)	**11Y875**	—
RG-174/188/316	Crimp-On (3 Piece)	—	**12H876**
RG-58	Crimp-On (2 Piece)	**11Y865**	**11Y908**
RG-58	Crimp-On (3 Piece)	**11Y871**	**12H872**
RG-58	Twist-On	**11Y862**	**11Y903**
RG-58 Plenum	Crimp-On (2 Piece)	**11Y869**	—
RG-59	Compression	—	**12H906**
RG-59/62	Crimp-On (2 Piece)	**11Y866**	**11Y909**
RG-59/62	Crimp-On (3 Piece)	**11Y872**	**12H873**
RG-59/62	Twist-On	—	**11Y904**
RG-59/62 Mini	Crimp-On (3 Piece)	**11Y876**	**12H877**
RG-59/62 Plenum	Crimp-On (2 Piece)	**11Y868**	**11Y911**
RG-59/62 Plenum	Crimp-On (3 Piece)	**11Y874**	**12H875**
RG-59/62 Plenum	Twist-On	—	**11Y906**

Cable Type	Installation Method	IMPEDANCE 50 ohms Item No.	IMPEDANCE 75 ohms Item No.
RG-59 Plenum	Compression	—	**12H907**
RG-59 Plenum Quad	Compression	—	**12H908**
RG-6	Compression	—	**12H909**
RG-6	Crimp-On (2 Piece)	**11Y867**	**11Y910**
RG-6	Crimp-On (3 Piece)	**11Y873**	**12H874**
RG-6	Twist-On	**11Y863**	**11Y905**
RG-6 Gold	Compression	—	**12H910**
RG-6 Gold Quad	Compression	—	**12H914**
RG-6 Plenum	Compression	—	**12H911**
RG-6 Plenum	Crimp-On (2 Piece)	**11Y870**	**12H871**
RG-6 Plenum	Crimp-On (3 Piece)	**11Y877**	—
RG-6 Plenum	Twist-On	**11Y864**	**11Y907**
RG-6 Plenum Quad	Compression	—	**12H912**
RG-6 PVC/PTFE, RG-58 PVC, RG-59 PVC/PTFE	Crimp-On	**4KEC7**	**4KEC6**
RG-6 Quad	Compression	—	**12H913**
RG-8/11	Crimp-On (3 Piece)	**11Y883**	**12H878**
BNC Male Coaxial Connector (Right Angle)			
RG-59	Compression	—	**12H924**
RG-59/62	Crimp-On	**11Y881**	—
RG-59/62	Twist-On	**11Y878**	—
RG-59/62 Plenum	Twist-On	**11Y880**	—
RG-59 Plenum	Compression	—	**12H925** *
RG-6	Compression	—	**12H926** *
RG-6	Crimp-On	**11Y882**	—
RG-6	Twist-On	**11Y879**	—
RG-6 Plenum	Compression	—	**12H928** *
RG-6 Quad	Compression	—	**12H927** *
BNC Male Coaxial Terminator			
Coaxial	Crimp-On	—	**11Y902** †
Coaxial	Crimp-On	**11Y899**	**11Y901**

Cable Type	Installation Method	IMPEDANCE 50 ohms Item No.	IMPEDANCE 75 ohms Item No.
F-Type Male Coaxial Connector			
RG-11	Compression	—	**12H929**
RG-59	Attached Crimp-On Ring	—	**12H894**
RG-59	Compression	—	**12H896**
RG-59 Plenum	Attached Crimp-On Ring	—	**12H893**
RG-59 Plenum	Compression	—	**12H897**
RG-59 Plenum Quad	Compression	—	**12H898**
RG-6	Compression	—	**12H899**
RG-6 Gold	Compression	—	**12H901**
RG-6 Gold Quad	Compression	—	**12H905**
RG-6 Plenum	Attached Crimp-On Ring	—	**12H892**
RG-6 Plenum	Compression	—	**12H902**
RG-6 Plenum Quad	Compression	—	**12H903**
RG-6 Quad	Compression	—	**12H904**
RCA Male Coaxial Connector			
RG-59	Compression	—	**12H915**
RG-59 Plenum	Compression	—	**12H916**
RG-59 Plenum Quad	Compression	—	**12H917**
RG-6	Compression	—	**12H918**
RG-6 Gold	Compression	—	**12H919**
RG-6 Gold Quad	Compression	—	**12H923**
RG-6 Plenum	Compression	—	**12H920**
RG-6 Plenum Quad	Compression	—	**12H921**
RG-6 Quad	Compression	—	**12H922**

Gold color. †Impedance is 93 Ohms.



5e Plenum Cable

GenSPEED BRAND CAROL BRAND MONOPRICE

Category Cable

Designed with a solid conductor. PVC jackets have sequential foot markings. Outside Plant Cable No. 1MWZ2 features internal cross-web that maximizes pair separation for enhanced electrical performance. No. 1MWX7 has helical aluminum armor over inner jacket for increased cable protection and tensile support strength. Meet ANSI/TIA/EIA 568A, ANSI/ICEA S-90-661, and NEMA WC63.1. UL and C-UL Listed.

CAT 5E
- 24-ga. conductors
- 100 Mbps, 155 Mbps, and Gigabit Ethernet
- 100 Base-T
- 52/155 Mbps ATM

All pair counts meet Cat 5e Power Sum backbone transmission requirements; suitable for high-speed data transmission.

CAT 6
- 23-ga. conductors
- 1000 Base-T Gigabit Ethernet, 100 Base-X, 10 Base-T (IEEE 802.3)
- 1000 Base-TX
- 4/16 Mbps Token Ring
- 155 Mbps/1.2 Gbps ATM

Excellent for digital video and broadband and baseband analog video. Filler design makes cable very round and easy to handle.



Pull-Pac



Reel in a Box



Spool

Category Type	No. of Conductor Pairs	L	Brand	BLUE Package Type	BLUE Item No.	WHITE Package Type	WHITE Item No.	GRAY Package Type	GRAY Item No.	YELLOW Package Type	YELLOW Item No.	BLACK Package Type	BLACK Item No.
Riser Cable													
Unshielded													
5e	4	100 ft.	GenSpeed	Pull Pac	**30YJ26**	Pull Pac	**30YJ25**	—	—	—	—	Spool	**30YJ21**
5e	4	100 ft.	Carol	Pull Pac	**30YJ27**	—	—	Pull Pac	**30YJ28**	—	—	—	—
5e	4	1000 ft.	GenSpeed	Reel in Box	**1MUF6**	Reel in Box	**1MUF8**	Pull Pac	**3ZK44**	Spool	**4DNW5**	Spool	**1MWX5**
5e	4	1000 ft.	GenSpeed	Pull Pac	**5MD21**	Pull Pac	**5MD20**	Spool	**5MD22**	—	—	—	—
5e	4	1000 ft.	Carol	Pull Pac	**21EN32**	Pull Pac	**21EN31**	Pull Pac	**21EN33**	—	—	—	—
5e	4	1000 ft.	Monoprice	—	—	Box	**425Y29**	Box	**425Y34**	—	—	—	—
5e	8	1000 ft.	GenSpeed	—	—	—	—	—	—	Pull Pac	**450X05**	—	—
6	4	100 ft.	Carol	Pull Pac	**30YJ31**	—	—	—	—	—	—	—	—
6	4	100 ft.	GenSpeed	—	—	—	—	—	—	—	—	Spool	**30YJ22**
6	4	1000 ft.	GenSpeed	Spool	**1MUL8**	Spool	**1MUL9**	—	—	Reel in Box	**1MUN3**	Spool	**1MWZ2**
6	4	1000 ft.	GenSpeed	Pull Pac	**1MUL7**	Pull Pac	**1MUN1**	—	—	Pull Pac	**450X25**	—	—
6	4	1000 ft.	GenSpeed	Reel in Box	**3WA22**	—	—	—	—	Pull Pac	**1MUN4**	—	—
6	4	1000 ft.	Carol	Pull Pac	**21EN38**	Pull Pac	**21EN37**	Pull Pac	**21EN39**	—	—	—	—
6	4	1000 ft.	Monoprice	Spool	**425Y38**	—	—	Spool	**425Y40**	—	—	Box	**425Y37**
6	4	1000 ft.	Monoprice	—	—	—	—	—	—	—	—	Spool	**425Y41**
6	4	1000 ft.	Monoprice	—	—	—	—	—	—	—	—	Spool	**425Y42**
6	8	1000 ft.	GenSpeed	Pull Pac	**450X14**	Pull Pac	**450X15**	—	—	—	—	Pull Pac	**450X08**
6A	8	1000 ft.	GenSpeed	Spool	**450X21**	Spool	**450X22**	—	—	—	—	—	—
Shielded													
5e	4	1000 ft.	GenSpeed	Spool	**1MUH5**	Spool	**1MUH6**	—	—	—	—	Spool	**1MWX7**
6	8	1000 ft.	GenSpeed	Spool	**450X07**	—	—	—	—	—	—	—	—
5e	4	1000 ft.	Monoprice	Box	**425Y28**	—	—	—	—	—	—	—	—
Plenum Cable													
Unshielded													
5e	4	100 ft.	Carol	Pull Pac	**30YJ29**	—	—	Pull Pac	**30YJ30**	—	—	—	—
5e	4	100 ft.	GenSpeed	Pull Pac	**30YJ23**	Pull Pac	**30YJ24**	—	—	—	—	—	—
5e	4	1000 ft.	Carol	Pull Pac	**21EN35**	Pull Pac	**21EN34**	Pull Pac	**21EN36**	—	—	—	—
5e	4	1000 ft.	GenSpeed	Spool	**3ZK40**	Pull Pac	**5MD18**	Pull Pac	**5MD19**	Pull Pac	**4DNW4**	—	—
5e	4	1000 ft.	GenSpeed	Pull Pac	**5MD17**	—	—	—	—	—	—	—	—
5e	4	1000 ft.	Monoprice	—	—	—	—	—	—	—	—	Box	**425Y31**
5e	4	1000 ft.	Monoprice	—	—	—	—	—	—	—	—	Box	**425Y35**
5e	8	1000 ft.	GenSpeed	—	—	—	—	—	—	—	—	Pull Pac	**450X02**
6	4	100 ft.	Carol	Pull Pac	**30YJ32**	—	—	Pull Pac	**30YJ33**	—	—	—	—
6	4	1000 ft.	GenSpeed	Reel in Box	**3WA23**	Spool	**1MUL1**	Pull Pac	**4DNV9**	Spool	**1MUL4**	—	—
6	4	1000 ft.	GenSpeed	Pull Pac	**1MUH8**	Pull Pac	**1MUL2**	—	—	Pull Pac	**1MUL5**	—	—
6	4	1000 ft.	Carol	Pull Pac	**21EN41**	Pull Pac	**21EN40**	Pull Pac	**21EN42**	—	—	—	—
6	8	1000 ft.	GenSpeed	—	—	—	—	—	—	—	—	Pull Pac	**450X12**
6	8	1000 ft.	GenSpeed	Pull Pac	**450X09**	Pull Pac	**450X10**	Pull Pac	**450X11**	Pull Pac	**450X13**	Pull Pac	**450X06**
6A	4	1000 ft.	Monoprice	—	—	Spool	**425Y52**	—	—	—	—	Spool	**425Y54**
Shielded													
5e	4	1000 ft.	GenSpeed	Spool	**1MUH2**	—	—	Spool	**4DNV7**	—	—	—	—



Pulling Grip Kit
No. 6D189



Light-Duty
No. 6D212

HUBBELL® Wiring Device-Kellems

Pulling Grips

Strong galvanized steel mesh grips provide positive holding power while pulling electrical, data, and communication wires at low tension through conduit. Rubber boot contains and protects cable ends. Flexible single eye provides easy attachment to pulling lines and fish tapes. Reusable and easily installed. CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 5.

Cable Dia. Range	Breaking Strength	Eye Length	Mesh Length	Item No.
Junior				
0.25" to 0.36"	450 lb.	3¼"	4¼"	**6C107**
0.37" to 0.49"	900 lb.	3¾"	7"	**6C108**
0.50" to 0.61"	1300 lb.	4¼"	8½"	**6C109**
0.62" to 0.74"	1950 lb.	5"	10"	**6C110**
0.75" to 0.99"	2800 lb.	5¾"	10"	**6C111**
1.00" to 1.24"	3900 lb.	6½"	11½"	**6C112**
Kit contains 1 of each size above and storage pouch				**6D189**
Light-Duty				
0.50" to 0.61"	2800 lb.	5"	16"	**6D212**
0.62" to 0.74"	2800 lb.	5"	16"	**6D213**
0.75" to 0.99"	4000 lb.	6"	20"	**6D214**
1.00" to 1.24"	6800 lb.	7"	20"	**6D215**
1.25" to 1.49"	6800 lb.	7"	21"	**6D216**
1.50" to 1.99"	6800 lb.	8"	23"	**6D217**
2.00" to 2.49"	8500 lb.	9"	25"	**6D218**

TRIPP·LITE

Data Comm Cabinets

Perfect for organizing and protecting rack-mount servers, storage, and network/telecom equipment quickly. Black finish. See this page for rack-mount power distribution units.



No. 19N902



No. 6RHW5

Item	Rack Units	Load Rating	Material	H	W	D	Mfr. Model	Item No.
Wall Mount								
Smart Rack Enclosure	6U	140 lbs.	Heavy Duty Steel	14.00"	23.00"	17.00"	SRW6U	**19N902**
Open Frame Rack	8U, 12U, or 22U	150 lbs.	Steel	42.30"	20.11"	18.24"	SRWO8U22	**6HKP1**
Open Frame Rack	12U	150 lbs.	Steel	30.45"	19.76"	20.35"	SRWO12US	**6HKP0**
Rack Enclosure	12U	140 lbs.	Steel	27.95"	26.38"	21.60"	SRW12US	**6HKN7**
Rack Enclosure	12U	250 lbs.	Steel	25.00"	23.63"	33.50"	SRW12US33	**6HKN8**
Rack Enclosure	12U	140 lbs.	Steel	25.00"	23.63"	21.60"	SRW12USG	**6HKN9**
Floor Mount								
Open Frame Rack,4-Post	13U	1000 lbs.	Steel	28.00"	20.20"	34.30"	SR4POST13	**6HKP4**
Open Frame Rack,2-Post	25U	800 lbs.	Aluminum	49.00"	20.30"	14.00"	SR2POST25	**6HKP3**
Rack Enclosure	42U	3000 lb. Stationary, 2250 lb. Rolling	Steel	78.50"	23.63"	43.00"	SR42UB	**6RHW5**
Rack Enclosure	42U	3000 lb. Stationary, 2250 lb. Rolling	—	78.50"	43.00"	23.63"	SR42UBZ4	**14A335**
Rack Enclosure	42U	3000 lb. Stationary, 2250 lb. Rolling	—	78.50"	32.00"	23.63"	SR42UBSD	**13J809**
Open Frame Rack	45U	1000 lbs.	—	84.30"	39.40"	20.30"	SR4POST1224	**14A334**
Accessories								
Rolling Caster Kit, For Use With 6HKP4,6HKN7, AND 6HKN8. Allows 4 Post Open Frame Racks and SRW12US to Become Mobile, Heavy Duty 550 lb. (Per Caster) Rating							SRCASTER	**6HKP2**

TRIPP·LITE APC by Schneider Electric RITTAL

Power Distribution Units



No. 14A325



No. 6ECK2



No. 6RHW4

Offer reliable rack-mount multioutlet power distribution from any supplied power source. High-quality design includes rugged all-metal housing and secure rack-mount installation with included mounting accessories. Metered units offer real-time local reporting of load levels via built-in digital meter.

Plug Type	Receptacle Type	No. of Outlets	Voltage	Max. Amps	Cord Length	H	W	L	Brand	Mfr. Model	Item No.
Nonmetered											
IEC-320 C14	IEC-320 C14	8	200 to 208/240VAC	10	6 ft.	3 27/64"	17 21/64"	3 1/32"	Tripp Lite	PDUBHV10	**14A325**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	16	120VAC	20	12 ft.	1 3/4"	17 1/2"	14 1/2"	Tripp Lite	PDUMH20ATNET	**2GZR9**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	16	120VAC	20	12 ft.	1 3/4"	17 1/2"	14 1/2"	Tripp Lite	PDUMH20AT	**2GZT2**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	20	120VAC	20	15 ft.	1 1/4"	1 3/4"	60"	Tripp Lite	PDUMV20	**2GZT5**
NEMA 5-15P	NEMA 5-15R	8	120VAC	15	12 ft.	1 3/4"	17 1/2"	14 1/2"	Tripp Lite	PDUMH15ATNET	**2GZR8**
NEMA 5-15P	NEMA 5-15R	8	120VAC	15	12 ft.	1 3/4"	17 1/2"	14 1/2"	Tripp Lite	PDUMH15AT	**2GZT1**
NEMA 5-15P	NEMA 5-15R	10	120VAC	15	12 ft.	2 3/4"	9"	17 39/64"	APC	AP9562	**6ECK4**
NEMA 5-15P	NEMA 5-15R	10	120VAC	15	15 ft.	2 1/4"	4"	17 1/2"	Tripp Lite	TLM1015NC	**33L715**
NEMA 5-15P	NEMA 5-15R	13	120VAC	15	15 ft.	1 3/4"	17 1/2"	4 1/2"	Tripp Lite	PDUMH15	**2GZT3**
NEMA 5-15P	NEMA 5-15R	13	120VAC	15	15 ft.	1 3/4"	17 1/2"	4 1/2"	Tripp Lite	PDU1215	**6RHW0**
NEMA 5-15P	NEMA 5-15R	16	120VAC	15	15 ft.	3"	1 1/2"	48"	Tripp Lite	PDUMV15	**2GZT4**
NEMA L5-30P	NEMA 5-20R	10	120VAC	20	12 ft.	1 3/4"	2 1/4"	17 39/64"	APC	AP9560	**6ECK3**
NEMA L5-30P	NEMA 5-15R	24	120VAC	30	15 ft.	1 3/4"	17 1/2"	4 1/2"	Tripp Lite	PDU2430	**6RHW2**
NEMA L5-20P	NEMA 5-20R	10	120VAC	20	12 ft.	2 3/4"	9"	17 39/64"	APC	AP9564	**6ECK5**
NEMA L5-20P	NEMA 5-20R	13	120VAC	20	15 ft.	1 3/4"	17 1/2"	4 1/2"	Tripp Lite	PDU1220T	**6RHW1**
NEMA L5-20P	NEMA 5-20R	24	120VAC	20	10 ft.	1 3/4"	2 13/64"	63 3/4"	APC	AP7530	**6ECK2**
NEMA L6-30P	(20) IEC 320 C13,(4) IEC 320 C19	24	208VAC	30	10 ft.	1 3/4"	2 13/64"	63 3/4"	APC	AP7541	**6ECK6**
NEMA L6-30P	(32) C13, (6) C19	38	208/240VAC	30	10 ft.	3 3/4"	2 1/4"	63 3/4"	Tripp Lite	PDUV30HV	**6RHW4**
Metered											
NEMA 5-15P	NEMA 5-15R	8	120VAC	15	12 ft.	1 3/4"	13 1/4"	17 15/32"	APC	AP7800B	**6ECK7**
NEMA L6-20P, IEC-320 C20	(8) C13, (2) C19	10	208/240VAC	20	12 ft.	1 3/4"	17 1/2"	6 1/2"	Tripp Lite	PDUMH20HV	**14A324**



APC by Schneider Electric

Power Conditioners

- 15A, 120V
- 10-ft. cord
- NEMA 5-15 plug

Protect connected loads from surges, spikes, lightning, and other power disturbances. Eliminate electromagnetic and radio frequency interference.

Power Rating	No. of Outlets	Features	H	W	D	Mfr. Model	Item No.
1.5kVA	8	—	3 7/8"	17"	16"	J25B	**43Y953**
1.5kVA	8	Green Mode, Audible Alarms	3 7/8"	17"	16"	J35B	**43Y954**
1kVA	12	—	5 1/4"	17"	18"	J10BLK	**43Y951**
1.5kVA	12	—	5 1/4"	17"	18"	J15BLK	**43Y952**
Power Filter and Connection Kit, Black						INWALLKITBLK	**43Y949**
Power Filter and Connection Kit, White						INWALLKITWHT	**43Y950**

No. 43Y974



APC by Schneider Electric

Power Cords

- Temp. range: -32° to 167°F

Locking right-angle cords are designed with a rubber/plastic jacket type, and copper gauge conductors. Locking power cords are compatible with AP8000 Series Metered, Switched, and Metered-by-Outlet Rack PDUs.

NEMA Plug Config.	Connector End	Cord Length	Type	Max. Amps	Voltage	Item No.	Pkg. Qty.
5-15P	IEC-320 C19	10 ft.	Locking	15.0	120VAC	**43Y970**	1
5-20P	IEC-320 C19	10 ft.	Locking	20.0	120VAC	**43Y971**	1
L5-20P	IEC-320 C19	10 ft.	Locking	20.0	120VAC	**43Y972**	1
L6-20P	IEC-320 C19	10 ft.	Locking	20.0	208VAC	**43Y973**	1
IEC-320 C19	IEC-320 C20	2 ft.	Locking	16.0	120VAC	**43Y966**	6
IEC-320 C19	IEC-320 C20	4 ft.	Locking	16.0	120VAC	**43Y968**	6
IEC-320 C19	IEC-320 C20	4 ft.	Locking, Right Angle	16.0	120VAC	**43Y967**	6
IEC-320 C19	IEC-320 C20	6 ft.	Locking	16.0	120VAC	**43Y969**	6
IEC-320 C19	IEC-320 C20	10 ft.	Locking	16.0	120VAC	**43Y974**	1



No. 40JZ85



No. 6RHW7

Dayton TRIPP·LITE

Portable Air Conditioners

- 6-ft. power cord with NEMA 5-15 plug
- 120V

Zero-maintenance design. No floor drain necessary or water tank to empty. Features touch-sensitive control panel and 3 cooling speeds. No. 6RHW7 includes 71" tube to aim cold air where needed.

BtuH Cooling	Amps	W	H	D	Brand	Item No.
10,000	11	11¾"	24¾"	17¾"	Dayton	**40JZ85**
12,000	7	12⅜"	32⅜"	19¾"	Tripp Lite	**6RHW7**



No. 5ZVX5



No. 5ZVY1

PANDUIT

Racks and Accessories

Provide protection, management, and organization to data centers and telecommunication rooms.

PATCH PANELS

Mount to 19" and 23" racks. Easy to identify with preprinted numbers, write-on areas, and optional label kits.

Rack Units	Material of Construc.	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Cable Management Rack						
45	Aluminum	84	20.3	3	R2P	**5ZWJ0**
Dual Side Vertical Manager						
45	ABS	84	5	12	WMPV45E	**5ZWJ1**
Dual Side Horizontal Finger Manager						
1	ABS	1.7	19.0	8.9	WMPSE	**5ZWJ2**
2	ABS	3.5	19.0	8.9	WMP1E	**5ZWJ3**
Dual Side Horizontal Ring Manager						
1	Steel, ABS	1.7	19.0	8.6	CMPH1	**5ZWJ4**
2	Steel, ABS	3.5	19.0	8.6	CMPH2	**5ZWJ5**
Single Side Horizontal Ring Manager						
1	Steel, ABS	1.7	19.0	3.4	CMPHF1	**5ZWJ6**

Category Type	No. of Ports	Connectors per Panel	Rack Units	T568 Std.	Panel Type	Mfr. Model	Item No.
Patch Panels							
5e	24	24	1	A/B	110	DP245E88TGY	**5ZVX5**
5e	48	48	2	A/B	110	DP485E88TGY	**5ZVX7**
6	24	24	1	A/B	110	DP24688TGY	**5ZVX6**
6	48	48	2	A/B	110	DP48688TGY	**5ZVX8**
Mini-Com	24	24	1	—	Modular	CPP24WBLY	**5ZVX9**
Mini-Com	48	48	2	—	Modular	CPP48WBLY	**5ZVY1**
Patch Panels with Labels							
Mini-Com	24	24	1	—	Modular	CPPL24WBLY	**5ZVY0**
Mini-Com	24	24	1	—	Modular	CPPLA24WBLY	**5ZVY3**
Mini-Com	48	48	2	—	Modular	CPPL48WBLY	**5ZVY2**
Mini-Com	48	48	2	—	Modular	CPPLA48WBLY	**5ZVY4**

MONOPRICE

HUBBELL
Hubbell Premise Wiring



Flexboot



Booted



Hi-Impact

Patch Cords

- Snagless RJ45 connectors
- 24 AWG unshielded conductors (Cat 6A are 26 AWG shielded, flat cables are 30 AWG)

Category	Length	BLACK Item No.	BLUE Item No.	GRAY Item No.	GREEN Item No.	ORANGE Item No.	PINK Item No.	PURPLE Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
Monoprice											
Booted Boot Type											
5e	0.5 ft.	**5PZP3**	**5PZP4**	—	**5PZP6**	**5PZP7**	—	**5PZP9**	**5PZR0**	**5PZR1**	**5PZR2**
5e	1.0 ft.	**5PZR3**	**5PZR4**	**5PZR5**	**5PZR6**	**5PZR7**	—	**5PZR9**	**5PZT0**	**5PZT1**	**5PZT2**
5e	2.0 ft.	**5PZT3**	**5PZT4**	**5PZT5**	**5PZT6**	**5PZT7**	**14A982**	**5PZT8**	**5PZT9**	**5PZU0**	**5PZU1**
5e	3.0 ft.	**5PZU2**	**5PZU3**	**5PZU4**	**5PZU5**	**5PZU6**	**5PZU7**	**5PZU8**	**5PZU9**	**5PZV0**	**5PZV1**
5e	5.0 ft.	**5PZV2**	**5PZV3**	**5PZV4**	**5PZV5**	**14A981**	**5PZV6**	**5PZV7**	**5PZV8**	**5PZV9**	**5PZW0**
5e	7.0 ft.	**5PZW1**	**5PZW2**	**5PZW3**	**5PZW4**	**5PZW5**	**5PZW6**	**5PZW7**	**5PZW8**	**5PZW9**	**5PZX0**
5e	10 ft.	**5PZX1**	**5PZX2**	**5PZX3**	**5VYY9**	**5VYZ0**	**5VYZ1**	**5VYZ2**	**5VYZ3**	**5VYZ4**	**5VYZ5**
5e	14 ft.	**5VYZ6**	**5VYZ7**	**5VYZ8**	**5VYZ9**	**5VZA0**	**5VZA1**	**5VZA2**	**5VZA3**	**5VZA4**	**5VZA5**
5e	20 ft.	**5VZA6**	**5VZA7**	**5VZA8**	**5VZA9**	**5VZC0**	**5VZC1**	**5VZC2**	**5VZC3**	**5VZC4**	**5VZC5**
5e	25 ft.	**5VZC6**	**5VZC7**	**5VZC8**	**5VZC9**	**5VZD0**	**5VZD1**	**5VZD2**	**5VZD3**	**5VZD4**	**5VZD5**
5e	30 ft.	**5VZD6**	**5VZD7**	**5VZD8**	**5VZD9**	**5VZE0**	—	**5VZE2**	**5VZE3**	**5VZE4**	**5VZE5**
5e	50 ft.	**5VZE6**	**5VZE7**	**5VZE8**	**5VZE9**	**5VZF0**	**5VZF1**	**5VZF2**	**5VZF3**	**5VZF4**	**5VZF5**
5e	75 ft.	**5VZF6**	**5VZF7**	**5VZF8**	**5VZF9**	—	—	**5VZG2**	—	**5VZG4**	**5VZG5**
5e	100 ft.	**5VZG6**	**5VZG7**	**5VZG8**	**5VZG9**	**5VZH0**	**5VZH1**	**5VZH2**	**5VZH3**	**5VZH4**	**5VZH5**
6	0.5 ft.	**13U522**	**13U523**	**13U524**	**13U525**	**13U526**	**13U528**	**13U527**	**13U529**	**13U530**	**13U531**
6	1.0 ft.	**5VZH6**	**5VZH7**	**5VZH8**	**5VZH9**	**5VZJ0**	—	**5VZJ1**	**5VZJ2**	**5VZJ3**	**5VZJ4**
6	2.0 ft.	**14A979**	**5VZJ5**	**5VZJ6**	**5VZJ7**	**5VZJ8**	—	**5VZJ9**	**5VZK0**	**5VZK1**	**5VZK2**
6	3.0 ft.	**5VZK3**	**5VZK4**	**5VZK5**	**5VZK6**	**5VZK7**	—	—	**5VZK9**	**5VZL0**	**5VZL1**
6	5.0 ft.	**5VZL2**	**5VZL3**	**5VZL4**	**5VZL5**	**5VZL6**	—	**5VZL7**	**5VZL8**	**5VZL9**	**14A983**
6	7.0 ft.	**5VZN0**	**5VZN1**	**5VZN2**	**5VZN3**	**5VZN4**	—	—	**5VZN6**	**5VZN7**	**5VZN8**
6	10 ft.	**5VZP0**	**5VZP1**	**5VZN9**	**5VZP2**	**5VZP3**	—	**5VZP4**	**5VZP5**	**5VZP6**	**5VZP7**
6	14 ft.	**5VZP8**	**5VZP9**	**5VZR0**	**14A980**	**5VZR1**	—	**5VZR2**	**5VZR3**	—	**5VZR5**
6	20 ft.	**5VZR6**	**5VZR7**	**5VZR8**	**5VZR9**	**5VZT0**	—	**5VZT1**	**5VZT2**	**5VZT3**	**5VZT4**
6	25 ft.	**5VZT5**	**5VZT6**	**5VZT7**	**5VZT8**	**5VZT9**	—	**5VZU0**	**5XFG6**	**5XFG7**	**5XFG8**
6	30 ft.	**5XFG9**	**5XFH0**	**5XFH1**	**5XFH2**	**5XFH3**	—	**5XFH4**	**5XFH5**	**5XFH6**	—
6	50 ft.	**5XFH8**	**5XFH9**	**5XFJ0**	**5XFJ1**	**5XFJ2**	—	**5XFJ3**	**5XFJ4**	**5XFJ5**	**5XFJ6**
6	75 ft.	**5XFJ7**	**5XFJ8**	**5XFJ9**	**5XFK0**	—	—	—	**5XFK3**	**5XFK4**	—
6	100 ft.	**5XFL0**	**5XFL1**	**5XFL2**	**5XFL3**	**5XFL4**	—	**5XFK6**	—	**5XFK8**	**5XFK9**
Flexboot Boot Type											
6	0.5 ft.	—	**38F941**	—	**38F942**	**38F943**	—	—	**38F944**	**38F945**	**38F946**
6	1.0 ft.	**38F947**	—	—	**38F948**	—	—	**38F951**	—	**38F950**	**38F949**
6	2.0 ft.	**38F954**	**38F955**	**38F952**	**38F956**	**38F957**	—	**38F958**	**38F959**	**38F953**	—
6	3.0 ft.	**38F963**	**38F961**	**38F962**	—	**38F960**	—	**38F966**	**38F964**	**38F965**	—
6	5.0 ft.	**38F967**	**38F968**	**38F969**	**38F970**	—	—	**38F971**	**38F972**	**38F973**	**38F974**
6	7.0 ft.	**38F977**	**38F975**	**38F976**	**38F978**	—	—	**38F981**	**38F979**	—	**38F980**
6	10 ft.	**38F982**	**38F983**	**38F984**	**38F985**	**38F986**	—	**38F987**	**38F988**	**38F989**	**38F990**
6	14 ft.	**38F993**	**38F991**	**38F992**	—	—	—	**38F996**	**38F994**	**38F995**	—
6	20 ft.	—	—	**38F997**	—	—	—	—	**38F998**	**38F999**	—
6	25 ft.	**38G002**	—	—	**38G003**	**38G001**	—	**38G006**	—	**38G005**	**38G004**
6	30 ft.	**38G007**	—	—	—	—	—	—	**38G008**	—	**38G009**
6	50 ft.	**38G014**	**38G012**	**38G013**	**38G015**	**38G010**	—	**38G017**	—	**38G011**	**38G016**
6	75 ft.	**38G018**	—	—	—	—	—	**38G019**	—	—	**38G020**
6	100 ft.	**38G023**	**38G021**	**38G022**	**38G024**	—	—	—	**38G025**	—	**38G026**

Category	Length	BLACK Item No.	BLUE Item No.	GRAY Item No.	YELLOW Item No.
Hubbell					
Booted, High Impact Cord End					
6	10 ft.	**6YTK1**	—	—	—
6	15 ft.	**6YTK2**	—	—	—
Booted Cord End					
6	7.0 ft.	**6YTK3**	—	—	—
6	15 ft.	**6YTK4**	—	—	—
Clear Boot Cord End					
5e	3.0 ft.	**6YTH7**	**6YTH1**	**6YTG5**	**6YTJ3**
5e	5.0 ft.	**6YTH8**	**6YTH2**	**6YTG6**	**6YTJ4**
5e	7.0 ft.	**6YTH9**	**6YTH3**	**6YTG7**	**6YTJ5**
5e	10 ft.	**6YTJ0**	**6YTH4**	**6YTG8**	**6YTJ6**
5e	15 ft.	**6YTJ1**	**6YTH5**	**6YTG9**	**6YTJ7**
5e	20 ft.	**6YTJ2**	**6YTH6**	**6YTH0**	**6YTJ8**
6	3.0 ft.	**6YTE7**	**6YTF9**	**6YTE1**	**6YTF3**
6	5.0 ft.	**6YTE8**	**6YTG0**	**6YTE2**	**6YTF4**
6	7.0 ft.	**6YTE9**	**6YTG1**	**6YTE3**	**6YTF5**
6	10 ft.	**6YTF0**	**6YTG2**	**6YTE4**	**6YTF6**
6	15 ft.	**6YTF1**	**6YTG3**	**6YTE5**	**6YTF7**
6	20 ft.	**6YTF2**	**6YTG4**	**6YTE6**	**6YTF8**
6A	1.0 ft.	—	**49K851**	—	—
6A	3.0 ft.	—	**22LU67**	**22LU73**	**22LU79**
6A	5.0 ft.	—	**22LU68**	**22LU74**	**22LU80**
6A	7.0 ft.	—	**22LU69**	**22LU75**	**22LU81**
6A	10 ft.	—	**22LU70**	**22LU76**	**22LU82**
6A	15 ft.	—	**22LU71**	**22LU77**	**22LU83**
6A	20 ft.	—	**22LU72**	**22LU78**	**22LU84**
6A	25 ft.	—	**49K853**	—	—

Category	Length	BLACK Item No.	BLUE Item No.	GRAY Item No.	YELLOW Item No.
6A	30 ft.	—	**49K854**	—	—
6A	35 ft.	—	**49K855**	—	—
6A	40 ft.	—	**49K856**	—	—
6A	45 ft.	—	**49K857**	—	—
6A	50 ft.	—	**49K858**	—	—
6A	55 ft.	—	**49K859**	—	—
6A	60 ft.	—	**49K860**	—	—
6A	100 ft.	—	**49K852**	—	—
High Impact, High Impact Cord End					
6	7.0 ft.	**6YTJ9**	—	—	—
6	15 ft.	**6YTK0**	—	—	—
Monoprice					
Flexboot Cord End					
5e	0.5 ft.	**38F927**	—	—	—
5e	1.0 ft.	**38F928**	—	—	—
5e	2.0 ft.	**38F929**	—	—	—
5e	3.0 ft.	**38F930**	—	—	—
5e	5.0 ft.	**38F931**	—	—	—
5e	7.0 ft.	**38F932**	—	—	—
5e	10 ft.	**38F933**	—	—	—
5e	14 ft.	**38F934**	—	—	—
5e	20 ft.	**38F935**	—	—	—
5e	25 ft.	**38F936**	—	—	—
5e	30 ft.	**38F937**	—	—	—
5e	50 ft.	**38F938**	—	—	—
5e	75 ft.	**38F939**	—	—	—
5e	100 ft.	**38F940**	—	—	—

No. 25D131



Data Comm Cord Reels

LIND EQUIPMENT WORK CONFIDENTLY.

- Temp. range: 0° to 80°F
- 30V

Steel reels Include wall and ceiling bracket and cord. UL Listed and CSA Certified.

NEC Cord Designation	Cord Length	Voltage	Gauge/ Conductor	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.
CAT6	20 ft.	30VDC	24/8	6½"	6½"	2½"	LE2320CAT	**25D131**
USB 2.0	20 ft.	30VDC	28/2, 24/2	6½"	6½"	2½"	LE2320USB	**25D132**

Hubbell Premise Wiring

66 Wiring Blocks

Terminate 22 AWG to 26 AWG solid conductors, or 20 AWG to 26 AWG stranded connectors.

Description	L (in.)	W (in.)	D (in.)	Rows	No. of Pairs	Pins per Row	Mfr. Model	Item No.
Split B Block	13.47	2.8	1.25	50	50	6	HPW66B350	**6MJ65**
B Block	2.8	3.9	1.2	12	6	6	HPW66B16	**6MJ64**
M Block	10	3.44	1.2	50	25	4	HPW66M125	**6MJ69**
Split M Block	10	3.44	1.2	50	50	4	HPW66M150	**6MJ70**
CAT5 Split M Block	10	3.4	1.25	50	50	4	HPW66M150C5	**6MJ71**



No. 6MJ65



No. 6MJ64

No. 13U661



MONOPRICE

Modular Plugs, Telephone Cords, Wire, and Splices

Connector Type	No. of Contacts	No. of Positions	Cable Type	Simplex/ Duplex	Wire Type	Item No.	Pkg. Qty.
Modular Plugs							
RJ11	4	6	Flat	Duplex	Stranded	**13U657**	50
RJ11	4	6	Round	Duplex	Solid	**13U658**	50
RJ11	4	6	Round	Simplex	Stranded	**13U665**	50
RJ12	6	6	Flat	Duplex	Stranded	**13U659**	50
RJ12	6	6	Round	Duplex	Solid	**13U660**	50
RJ12	6	6	Round	Duplex	Stranded	**13U661**	50
RJ45	8	8	Cat5	Duplex	Shielded	**13U647**	100
RJ45	8	8	Cat5, Cat5e	Duplex	Solid	**13U652**	100
RJ45	8	8	Cat5, Cat5e	Duplex	Stranded	**13U653**	100
Modular Plug with Inserts							
RJ45	8	8	Cat6	Duplex	Solid	**13U654**	100
Modular Plugs							
RJ45	8	8	Cat6	Duplex	Stranded	**13U655**	100
RJ45	8	8	Cat6	Duplex	Stranded	**13U656**	50
RJ45	8	8	Cat6	Simplex	Stranded	**13U664**	100



No. 13U663



No. 14J361



No. 14J360



No. 14J353



No. 14J358

MONOPRICE

Couplers and Splitters

Description	Connector Type	No. of Contacts	No. of Positions	Color	Item No.
Telephone					
Inline Coupler	RJ12	6	6	Beige	**13U663**
Line Splitter, 2-Way, 1 Male to 2 Female	RJ11	4	6	Beige	**14J359**
Line Splitter, 2-Way, 1 Female to 2 Female	RJ45	8	8	Beige	**14J361**
Line Splitter, 3-Way, 1 Male to 3 Female	RJ11	4	6	Beige	**14J360**
Ethernet, Cat 5e					
Shielded Inline Coupler	RJ45	8	8	Silver	**14J353**
Inline Coupler	RJ45	8	8	Black	**14J355**
Inline Coupler	RJ45	8	8	White	**14J356**
Inline Coupler	RJ45	8	8	Beige	**14J352**
Ethernet, Cat 6					
Inline Coupler	RJ45	8	8	White	**14J358**



No. 6MK46



No. 3XA64



No. 5LV22



No. 6MK51

Hubbell Premise Wiring

Keystone Jacks, Boxes, and Wall Plates

ISTATION SERIES KEYSTONE JACKS

Allow for multiple connectors within HPW flush plates/housings.

ISB SERIES SURFACE MOUNT BOXES

Covers snap on without the use of tools or hardware. TIA/EIA-606 label fields included.

IFP SERIES WALL PLATES

Flush-mounting wall plates accept all Hubbell Premise Wiring Xcelerator® jacks and SF Series snap-in multimedia and fiber connectors. TIA/EIA-606 labels are located over each of the screw-mounted holes.

Termination Type	Cable Type	OFFICE WHITE Item No.	GRAY Item No.	WHITE Item No.	ELECTRIC IVORY Item No.	BLACK Item No.	BLUE Item No.
iSTATION Series Keystone Jacks							
110 Punch-Down	RCA (Red)	—	—	—	—	**15D921**	—
110 Punch-Down	RCA (Yellow)	—	—	—	—	**22LV30**	—
Coupler	3.5mm Stereo Audio	**15D931**	—	**15D932**	—	—	—
Coupler	BNC	**15D936**	—	**15D937**	—	—	—
Coupler	F-Type	**5LW09**	**6MK47**	**6MK48**	**6MK46**	—	—
Coupler	HDMI 1.4	—	—	—	—	**22LV29**	—
Coupler	RCA (Blue)	—	**22LV35**	**22LV36**	**22LV34**	—	—
Coupler	RCA (White)	**15D926**	—	—	—	—	—
Coupler	USB 2.0 A	—	—	—	—	—	**15D938**
Screw	3.5mm Stereo Audio	**15D929**	—	**15D930**	—	—	—
USB 2.0 B Female	USB 2.0 A	—	—	—	—	—	**15D939**

No. of Ports	No. of Gangs	L	W	D	WHITE Item No.	OFFICE WHITE Item No.	IVORY Item No.	GRAY Item No.
ISB Series Surface Mount Boxes								
1	—	2.38"	1.30"	1.08"	**22LV07**	**3VE16**	—	—
2	—	2.38"	2.30"	1.08"	**3XA64**	**3XA65**	**3XA63**	—
6	—	6.50"	4.00"	1.23"	**22LV09**	**22LV08**	—	—
12	—	49.5"	24.00"	12.91"	**22LV06**	**22LV05**	—	—
IFP Series Wall Plates								
1	1	4.50"	2.75"	0.37"	**6MH77**	**5LV22**	**6MH75**	**6MH76**
2	1	4.50"	2.75"	0.37"	**6MH80**	**5LV23**	**6MH78**	**6MH79**
3	1	4.50"	2.75"	0.37"	**6MH83**	**5LV24**	**6MH81**	**6MH82**
4	1	4.50"	2.75"	0.37"	**6MH86**	**5LV25**	**6MH84**	**6MH85**
6	1	4.50"	2.75"	0.37"	**6MH89**	—	**6MH87**	**6MH88**
6	2	4.50"	4.50"	0.37"	—	**22LU94**	—	—
12	2	4.50"	4.50"	0.37"	**22LU93**	**22LU92**	—	—
SSF Series 430 Brushed Stainless Steel Wall Plates								
1	1	4.50"	2.75"	0.38"	—	—	—	**6MK51**
1	1	4.50"	2.75"	0.69"	—	—	—	**22LW33**
2	1	4.50"	2.75"	0.38"	—	—	—	**6MK52**
2	1	4.50"	2.75"	0.69"	—	—	—	**22LW34**
3	1	4.50"	2.75"	0.69"	—	—	—	**22LW35**
4	1	4.50"	2.75"	0.69"	—	—	—	**22LW36**
6	1	4.50"	2.75"	0.38"	—	—	—	**22LW30**
6	1	4.50"	2.75"	0.69"	—	—	—	**22LW37**
4	2	4.56"	4.50"	0.38"	—	—	—	**22LW31**
9	2	4.56"	4.50"	0.38"	—	—	—	**22LW32**


No. 5ZNU7


No. 5ZVZ1


No. 5ZWD8


No. 5ZVY6


No. 5ZWA0


No. 5ZVZ7


No. 5ZVZ4


No. 5ZWA6

Voice/Data Mini-Com® Accessories

PANDUIT®

Description	No. of Ports	Mfr. Model	WHITE Item No.	OFF WHITE Item No.	ELECTRIC IVORY Item No.	BLUE Item No.	BLACK Item No.
Jacks							
HDMI	1	CMHDMI	5ZWE3	5ZWE1	5ZWE2	—	—
Category 6, RJ45	1	CJ688TP	5ZVX2	5ZVX4	5ZVX1	5ZVX0	5ZVU9
Category 5e, RJ45	1	CJ5E88T	5ZNU5	5ZNU7	5ZNU4	5ZNU3	5ZNU2
Blank Mini-Com Insert	0	CMB-X	5ZVZ2	5ZVZ0	5ZVZ1	—	5ZVZ3
Fiber Adapter Modules							
ST Multimode	1	CMST	5ZWG7	—	—	—	—
SC Singlemode Duplex	1	CMDSCZ	—	—	—	5ZWG3	—
SC Multimode Duplex	1	CMDSC	—	—	5ZWG1	—	5ZWG2
SC Duplex	1	CMDSC	—	5ZWG5	—	—	5ZWG4
LC Singlemode Duplex	1	CMDSLCZ	—	—	—	5ZWG0	—
LC Multimode Duplex w/ Phosphor Bronze Split Sleeve	1	CMDSLC	—	—	—	—	5ZWF7
LC 10Gig™ Multimode Duplex w/ Zirconia Ceramic Split Sleeves	1	CMDSAQLCZ	—	—	—	—	5ZWF9 *
Couplers							
USB Coupler A-A	1	CMUSBAA	5ZWE0	5ZWD8	5ZWD9	—	—
F-Type Coax Coupler	1	CMF	5ZVY9	5ZVY7	5ZVY8	—	—
Cat 6, RJ45	1	CC688	—	—	—	—	5ZVY6
Surface Mount Boxes							
For Use With Pan-Way® LD3, LDPH3, LD5, LDPH5 Raceway	2	CBX2-AY	5ZWA2	5ZWA0	5ZWA1	—	—
For Use With Pan-Way® LD3, LDPH3, LD5, LDPH5 Raceway	4	CBX4-AY	5ZWA5	5ZWA3	5ZWA4	—	—
Module Frames							
Duplex	2	CF1062	5ZWA9	5ZWA7	5ZWA8	—	—
Duplex	4	CF1064	5ZWC2	5ZWC0	5ZWC1	—	—
Decorator	2	CFG2	5ZWC5	5ZWC3	5ZWC4	—	—
Decorator	4	CFG4	5ZWC8	5ZWC6	5ZWC7	—	—
Wall Plates							
Single Gang, Includes Labels	2	CFPE2	5ZVZ9	5ZVZ7	5ZVZ8	—	—
Single Gang, Includes Labels	4	CFPE4	5ZVZ6	5ZVZ4	5ZVZ5	—	—
Furniture, Includes Labels	4	CFFPL4	—	—	—	—	5ZWA6

Color is aqua and black.


No. 13U577


No. 13U599


No. 13U611


No. 13U642


No. 14J389


No. 14J393

Keystone Jacks and Wall Plates

MONOPRICE

Description	Color	Item No.
A/V Keystone Jacks		
110 Punch-Down		
Voice	Beige	13U648
Voice	White	13U650
Coupler		
3.5mm Stereo Audio	White	13U575
BNC	Ivory	13U576
F-Type	White	13U577
F-Type	Black	13U579

Description	Color	Item No.
HDMI	Ivory	13U608
RCA (Green)	White	13U581
RCA (Green), Flush	Ivory	13U602
RCA (Red)	White	13U583
RCA (Red)	Ivory	13U589
RCA (White)	White	13U585
RCA (White), Flush	White	13U599
RCA (Yellow)	White	13U584

Description	Color	Item No.
USB 2.0 A	White	13U609
USB 3.0 A	White	13U611
Tool-Less		
Voice	White	13U649
Fiber Optic Keystone Jacks		
Coupler		
LC	White	38F918
SC	White	38F916

Cable Type	Termination Type	WHITE Item No.	BLUE Item No.	IVORY Item No.	BLACK Item No.	GREEN Item No.	ORANGE Item No.	RED Item No.	YELLOW Item No.
Category Keystone Jacks									
Category 5e	Tool-Less	13U612	13U615	13U616	13U617	—	—	—	—
Category 5e	Punch-Down	13U626	13U621	13U623	13U620	13U622	13U624	13U625	13U627
Category 5e	Coupler	13U628	—	—	14J357	—	—	—	—
Category 6	Tool-Less	13U634	13U630	13U632	13U629	13U631	13U636	13U633	13U635
Category 6	Punch-Down	13U643	13U638	13U640	13U637	13U639	13U641	13U642	13U644
Category 6	Coupler	13U646	—	—	13U645	—	—	—	—

Description	WHITE Item No.	IVORY Item No.
Blank Keystone Inserts		
Blank, Qty. 10	14J387	—
F-Type, Qty. 10	14J388	14J389
1-Gang Wall Plates		
1 Port	14J390	14J391
2 Port	14J392	14J393
3 Port	14J394	—

Description	WHITE Item No.	IVORY Item No.
4 Port	14J396	14J397
6 Port	14J398	14J399
2-Gang Wall Plates		
2 Port	14J401	—
4 Port	14J403	—
8 Port	14J407	—
12 Port	14J409	14J410



No. 3TY63

Xcelerator® Jacks—Universal Wired 110 Connection

HUBBELL®
Hubbell Premise Wiring

- Universal wiring for T568A or T568B
- For use with Hubbell wall plates
- Third-party component verified

Fast and easy to install and terminate. Compact, full-encasement housing protects connection elements and snaps into standard Hubbell® keystone opening. Termination towers are angled for easy lacing of wires into IDC contacts. Paired punchdowns have color-coded wiring labels.

Note: See page 355 for Wall Plates.

Cable Type	ELECTRIC IVORY Item No.	WHITE Item No.	GRAY Item No.	BLACK Item No.	ORANGE Item No.	TELCO IVORY Item No.	BLUE Item No.	GREEN Item No.	OFFICE WHITE Item No.	RED Item No.	YELLOW Item No.
Voice	5LV37	5LV38	5LV39	5LV40	5LV42	5LV43	22LU91	—	5LV41	—	—
Category 5e	5LV58	6MJ30	5LV59	5LV60	5LV62	5LV50	5LV63	6MJ31	5LV61	5LV64	5LV65
Category 6	3TY65	3TY72	3TY66	3TY63	3TY69	3TY71	3TY64	3TY67	3TY68	3TY70	3TY73



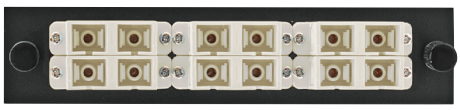
No. 13K599

Hubbell Premise Wiring

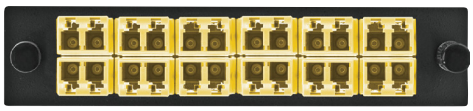
OptiChannel FCR Series Rack-Mounted Enclosures

Rack-mount enclosures hold 12 cassettes. Modular design features low-profile to enhance cooling. Constructed of 16-ga. cold-rolled steel. Powder-coated finish.

Rack Units	H	W	D	Mfr. Model	Item No.
1U	1.75"	17.00"	17.00"	FCR1U3SP	**22LU50**
2U	3.50"	17.00"	17.00"	FCR2U6SP	**13K599**
3U	5.25"	17.00"	17.00"	FCR3U12SP	**13K598**
4U	7.00"	17.00"	17.00"	FCR4U15SP	**49K803**



No. 49K817



No. 49K811

Hubbell Premise Wiring

Fiber Adapter Panels

16-ga. cold-rolled steel adapter panels feature a durable black powder-coated finish. Operating temp. range: 0° to 167°F.

Description	No. of Ports	Mfr. Model	BEIGE Item No.	AQUA Item No.	BLUE Item No.	YELLOW Item No.	BLACK Item No.
LC Duplex Multimode, Phosphor Bronze	12	FSPLCDM6	**22LU56**	**49K807**	**49K808**	—	—
LC Duplex Singlemode/ Multimode, Zirconia Ceramic	12	FSPLCDS6	—	**22LU57**	**22LU58**	—	—
LC Duplex Singlemode/ Multimode, Zirconia Ceramic	24	FSPLCDS1	—	**49K810**	—	**49K811**	—
SC Duplex Multimode, Phosphor Bronze	6	FSPSCDM3	**22LU59**	**49K814**	—	—	—
SC Duplex Multimode, Phosphor Bronze	12	FSPSCDM6	**49K817**	**49K815**	**49K816**	—	—
SC Duplex Singlemode/ Multimode, Zirconia Ceramic	6	FSPSCDS3	—	**22LU60**	**22LU61**	**22LU62**	—
SC Duplex Singlemode/ Multimode, Zirconia Ceramic	12	FSPSCDS6	—	—	**49K819**	**49K820**	—
ST-Style Simplex, Zirconia Ceramic	6	FSPSTSS6	—	—	—	—	**22LU63**
ST-Style Simplex, Zirconia Ceramic	8	FSPSTSS8	—	—	—	**49K821**	—

red lion®

Ethernet Switches

These compact unmanaged switches require no configuration and feature ultra-robust construction capable of withstanding environmental extremes. Designed with 2-network switches with automatic speed and duplex and cable sensing. They also feature redundant power inputs, hardened metal enclosures, and 16 kV port protection.



No. 36C127



No. 36C148

Type	Port Type	Input Voltage	Item No.
4 Port	RJ45	10 to 30VDC	**36C127**
5 Port	RJ45	10 to 30VDC	**36C129**
8 Port	RJ45	10 to 30VDC	**36C133**
5 Port Power Over	RJ45	48VDC	**36C148**

GeneralCable

Fiber Optic Cable

- ANSI/TIA/EIA 568B.3
- UL and C-UL Listed
- RoHS Compliant
- Operating temp.: -20° to 70°C
- 1000-ft. rolls



No. 5ZDD5

Type OFNP, CSA FT-6 cables feature black plenum-rated FEP jackets. Tight buffered fibers are easy to handle and strip for connection; sub-units are numbered for identification. Designed for intrabuilding and interbuilding high speed voice or data communications backbone.

Core Dim.	Attenuation	Fiber Count 6 Item No.	Fiber Count 12 Item No.
Tight Buffer SM	1.0 dB/km @ 1310 and 1560 Nanometers	**5ZDD5**	**5ZDD6**
62.5 µm MM	1.0 dB/km @ 1300 Nanometer	**5ZDE1**	—



No. 13U468



No. 13U426

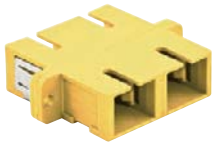
MONOPRICE

Fiber Optic Patch Cables

- Clad dimension: 125µm
- Attenuation and bandwidth: 10 GB

Fiber Optic Connector Type	Core Dim.	Jacket Color	LENGTH 1m Item No.	2m Item No.	3m Item No.	5m Item No.	10m Item No.
Patch Cables							
LC/LC	9	Yellow	**13U509**	**13U510**	**13U511**	**13U498**	**13U512**
	50	Orange	**13U460**	**13U461**	—	—	—
	50	Aqua	**13U463**	**13U464**	**13U465**	**13U466**	**13U467**
	62.5	Orange	**13U421**	**13U422**	—	—	—
LC/SC	9	Yellow	**13U515**	—	—	**13U504**	**13U505**
	50	Aqua	**13U468**	**13U469**	—	—	—
	62.5	Orange	**13U433**	**13U434**	**13U435**	**13U436**	**13U437**
LC/ST	9	Yellow	—	—	—	**13U517**	—
	50	Aqua	**13U472**	—	—	—	—
	62.5	Orange	**13U427**	**13U428**	**13U429**	**13U430**	**13U431**
SC/SC	9	Yellow	**13U519**	**13U501**	—	—	—
	62.5	Orange	**14C133**	—	—	—	—
SC/ST	9	Yellow	**13U520**	—	—	—	—
ST/SC	62.5	Orange	**14C128**	**14C129**	**14C130**	—	—
ST/ST	9	Yellow	**13U521**	—	—	—	—
	50	Aqua	**13U487**	**13U488**	**13U489**	—	—
	62.5	Orange	**14C123**	**14C124**	—	—	**14C127**

Fiber Optic Connector Type	Core Dim.	Jacket Color	LENGTH 15m Item No.	20m Item No.	30m Item No.	40m Item No.
Extended Length Patch Cables						
LC/LC	50	Aqua	**13U492**	**13U493**	**13U494**	**13U496**
LC/LC	62.5	Orange	**13U426**	—	—	—



No. 49K799

Fiber Optic Adapters

Hubbell Premise Wiring

Feature 500 cycle mating durability. Designed with singlemode or multimode zirconia sleeves. Operating temp. range: 0° to 167°F.

Fiber Optic Connector Type	No. of Ports	Features	Mfr. Model	AQUA Item No.	AQUA Pkg. Qty.	BLUE Item No.	BLUE Pkg. Qty.	BEIGE Item No.	BEIGE Pkg. Qty.	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
LC	2	Zirconia Ceramic Sleeves	FALCDSS6	**49K786**	6	**49K787**	6	**49K788**	6	**49K789**	6	**49K790**	6
SC	2	Zirconia Ceramic Sleeves	FASCDSS6	**49K795**	6	**49K796**	6	**49K797**	6	**49K798**	6	**49K799**	6



No. 22LU48



No. 22LU51



No. 49K806

PROclick® Fiber Pre-Polished Connectors

Hubbell Premise Wiring

- 900/250 um

Provide a low-cost field termination solution. Eliminate adhesives and polishing and utilizes a fiber clamping method. Perform well under extreme temperatures.

Description	Color	Pkg. Qty.	CONNECTOR TYPE LC Mfr. Model	LC Item No.	SC Mfr. Model	SC Item No.	ST Mfr. Model	ST Item No.
50/125 10G MM-OM3 900/250 µM	Aqua	12	FCLC900K50GM12	**22LU48**	FCSC900K50GM12	**22LU51**	—	—
50/125 MM-OM2 900/250 µM	Black	12	FCLC900K50M12	**49K801**	FCSC900K50M12	**49K804**	—	—
62.5/125 MM-OM1 900/250 µM	Beige	12	FCLC900K62M12	**49K802**	FCSC900K62M12	**22LU52**	—	—
9/125 UPC SM 900/250 µM	Blue	12	FCLC900KSM12	**22LU49**	FCSC900KSM12	**22LU53**	—	—
Multimode, 50µm	Black	12	—	—	—	—	FCST50M12	**49K806**
Multimode, 50µm, 10G	Black	12	—	—	—	—	FCST50GM12	**49K805**
Multimode, 62µm	Beige	12	—	—	—	—	FCST62M12	**22LU54**
Singlemode	Blue	12	—	—	—	—	FCSTSM12	**22LU55**

MONOPRICE

Video Converters

Feature plug and play installation.

Features	Connection	Item No.
Converts VGA and R/L Stereo Audio to HDMI Converter with DC Adapter	VGA, HDMI	**14C152**
DVI to HDMI Converter	DVI, HDMI	**14C155**
Component Video to HDMI	Component, HDMI, S/PDIF Coax, Toslink	**14C159**
Converts VGA to a HDMI Signal	VGA, HDMI	**14C166**



No. 14C152



No. 14C166



No. 38F913



No. 14X126

MONOPRICE

Stereo Audio Cables

Designed with PVC jacket material. 3.5mm is a common headphone jack size on most MP3 players.

Length	Color	Features	Item No.
Stereo Audio, 3.5mm Stereo TRS Male/2-RCA Male			
3 ft.	White	Gold-Plated	**38F913**
6 ft.	White	Gold-Plated	**38F914**
10 ft.	White	Gold-Plated	**38F915**
Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Female			
6 ft.	Black	—	**38F908**
12 ft.	Black	—	**38F909**
25 ft.	Black	—	**38F910**
50 ft.	Black	—	**38F911**
75 ft.	Black	—	**38F912**
Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Male			
6 ft.	White	Gold-Plated	**38F898**
12 ft.	Black	—	**38F894**
25 ft.	Black	—	**38F895**
50 ft.	Black	—	**38F896**
Stereo Audio, Heavy-Duty, 3.5mm Stereo TRS Female/2-RCA Male			
6"	Black	Gold-Plated	**14X127**
Stereo Audio, Heavy-Duty, 3.5mm Stereo TRS Male/2-RCA Female			
7"	Black	Gold-Plated	**14X126**

Length	Color	Features	Item No.
Stereo Audio, Heavy-Duty, 3.5mm Stereo TRS Male/2-RCA Male			
1 ft. 6"	Black	Gold-Plated	**14X118**
3 ft.	Black	Gold-Plated	**14X119**
6 ft.	Black	Gold-Plated	**14X120**
10 ft.	Black	Gold-Plated	**14X121**
15 ft.	Black	Gold-Plated	**14X122**
25 ft.	Black	Gold-Plated	**14X123**
35 ft.	Black	Gold-Plated	**14X124**
Stereo Audio, Heavy-Duty, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Female			
10 ft.	Black	Gold-Plated	**14X109**
15 ft.	Black	Gold-Plated	**14X110**
20 ft.	Black	Gold-Plated	**14X111**
25 ft.	Black	Gold-Plated	**14X112**
35 ft.	Black	Gold-Plated	**14X113**
100 ft.	Black	Gold-Plated	**14X116**
Stereo Audio, Heavy-Duty, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Male			
1 ft. 6"	Black	Gold-Plated	**14X096**
3 ft.	Black	Gold-Plated	**14X097**
6 ft.	Black	Gold-Plated	**14X098**
15 ft.	Black	Gold-Plated	**38F905**
25 ft.	Black	Gold-Plated	**14X102**
35 ft.	Black	Gold-Plated	**14X103**
50 ft.	Black	Gold-Plated	**14X104**
100 ft.	Black	Gold-Plated	**14X106**



No. 5RFP6

MONOPRICE

RCA Patch Cables

For use in audio and video applications. Feature gold-plated molded connectors and aluminum foil shielding. RCA male-to-male connections. Black PVC jacket.

Length	Conductor Size	Item No.
2-RCA Male/2-RCA Male		
3 ft.	22 AWG	**14X095**
6 ft.	22 AWG	**14X090**
12 ft.	22 AWG	**14X091**
25 ft.	22 AWG	**14X092**
35 ft.	22 AWG	**14X093**
50 ft.	22 AWG	**14X094**
Component, RG-59/U, 3 Cables		
1 ft. 6"	22 AWG	**5RFT7**
6 ft.	22 AWG	**5RFT9**
50 ft.	22 AWG	**5RFV5**
100 ft.	22 AWG	**5RFV6**
Component, RG-59/U, 5 Cables		
1 ft. 6"	Video 22 AWG, Audio 27 AWG	**5RFP6**
3 ft.	Video 22 AWG, Audio 27 AWG	**5RFP7**
6 ft.	Video 22 AWG, Audio 27 AWG	**5RFP8**
25 ft.	Video 22 AWG, Audio 27 AWG	**5RFR2**
50 ft.	Video 22 AWG, Audio 27 AWG	**5RFR4**
100 ft.	Video 22 AWG, Audio 27 AWG	**5RFR5**
Component, RG-6, In Wall Rated, 5 Cables		
3 ft.	Video 18 AWG, Audio 27 AWG	**5RFR7**
6 ft.	Video 18 AWG, Audio 27 AWG	**5RFR8**
12 ft.	Video 18 AWG, Audio 27 AWG	**5RFT0**
35 ft.	Video 18 AWG, Audio 27 AWG	**5RFT3**
50 ft.	Video 18 AWG, Audio 27 AWG	**5RFT4**
75 ft.	Video 18 AWG, Audio 27 AWG	**5RFT5**
100 ft.	Video 18 AWG, Audio 27 AWG	**5RFT6**

Length	Conductor Size	Item No.
Composite, RG-59/U, Video Dubbing Composite Cable, Super, Low-Loss Shielded, 3 Cables		
1 ft. 6"	—	**5RFY3**
3 ft.	—	**5RFY4**
6 ft.	—	**5RFY5**
15 ft.	—	**5RFY8**
25 ft.	—	**5RFY9**
50 ft.	—	**5RFZ0**
RCA Male/RCA Male		
3 ft.	20 AWG	**14X054**
3 ft.	18 AWG	**14X050**
6 ft.	20 AWG	**14X046**
6 ft.	18 AWG	**14X049**
10 ft.	18 AWG	**14X060**
15 ft.	18 AWG	**14X061**
25 ft.	20 AWG	**14X048**
25 ft.	18 AWG	**14X052**
35 ft.	18 AWG	**14X056**
50 ft.	20 AWG	**14X055**
50 ft.	18 AWG	**14X053**
75 ft.	18 AWG	**14X057**
100 ft.	18 AWG	**14X058**



No. 5RFJ3



No. 5RFE5

MONOPRICE

HDMI Cables

Suitable for use with audiovisual equipment (TV, computers, Blu-ray players, receivers, and cam corders). Gold connectors, compatible with all versions of HDMI, and can support 3D. HDMI-HDMI cable resolution from 480i to 4K x 2K, HDMI-DVI cable resolution 480i-1080p. UL Listed and CSA Certified. RoHS Compliant.

Length	Conductor Size	Color	Item No.
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Standard Speed			
12 ft.	28 AWG	Black	**5RFG1**
15 ft.	28 AWG	Black	**5RFG2**
75 ft.	22 AWG	Black	**5YMC4**
100 ft.	22 AWG	Black	**5YMC5**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed with Ethernet			
3 ft.	28 AWG	Black	**5RFE1**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed			
1 ft. 6"	28 AWG	Black	**5YMG4**
1 ft. 6"	28 AWG	Blue	**5YMG6**
1 ft. 6"	28 AWG	Purple	**5YMG9**
3 ft.	28 AWG	Blue	**5YMH5**
3 ft.	28 AWG	Green	**5YMH4**
3 ft.	28 AWG	Orange	**5RFD6**
3 ft.	28 AWG	Purple	**5RFD7**
3 ft.	28 AWG	White	**5RFD9**
4 ft.	28 AWG	Black	**5RFE2**
5 ft.	28 AWG	Black	**5RFE3**
6 ft.	28 AWG	Black	**5RFE5**
6 ft.	28 AWG	Blue	**5RFE6**
6 ft.	28 AWG	Green	**5RFE7**
6 ft.	28 AWG	Orange	**5RFE8**
6 ft.	28 AWG	Purple	**5RFE4**
6 ft.	28 AWG	Red	**5RFE9**
6 ft.	28 AWG	White	**5RFF0**
6 ft.	28 AWG	Yellow	**5RFF1**
8 ft.	28 AWG	Black	**5RFF2**
10 ft.	28 AWG	Black	**5RFF3**
10 ft.	28 AWG	Blue	**5RFF4**
10 ft.	28 AWG	Red	**5RFF8**
10 ft.	28 AWG	White	**5RFF9**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Flat, Standard Speed			
3 ft.	24 AWG	Black	**5YME3**
25 ft.	24 AWG	Black	**5YME8**
30 ft.	24 AWG	Black	**5YME9**
35 ft.	24 AWG	Black	**5YMF0**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Flat, High Speed			
6 ft.	24 AWG	Black	**5YME4**
10 ft.	24 AWG	Black	**5YME5**
15 ft.	24 AWG	Black	**5YME6**
HDMI Male/HDMI Male, PVC Jacket, Silver-Plated Copper Conductors, Standard Speed			
35 ft.	22 AWG	Black	**5YMA9**
50 ft.	22 AWG	Black	**5YMC3**
HDMI Male/HDMI Male, PVC Jacket, Silver-Plated Copper Conductors, High Speed			
6 ft.	24 AWG	Black	**5YMD4**
10 ft.	24 AWG	Black	**5YMD8**
15 ft.	24 AWG	Black	**5YME2**

Length	Conductor Size	Color	Item No.	
HDMI Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, Slim, High Speed, RedMere Technology				
10 ft.	28 AWG	Black	**38F855**	
15 ft.	28 AWG	Black	**38F856**	
30 ft.	28 AWG	Black	**38F857**	
40 ft.	28 AWG	Black	**38F858**	
50 ft.	28 AWG	Black	**38F859**	
60 ft.	28 AWG	Black	**38F860**	
HDMI Male/HDMI Male, Nylon Mesh Jacket, Tin-Plated Copper Conductors, Standard Speed				
1 ft.	24 AWG	Black	**5YMC6**	
HDMI Male/HDMI Male, Nylon Mesh Jacket, Tin-Plated Copper Conductors, High Speed				
3 ft.	24 AWG	Black	**5YMC8**	
4 ft.	24 AWG	Black	**5YMD0**	
6 ft.	24 AWG	Black	**5YMD2**	
10 ft.	24 AWG	Black	**5YMD6**	
10 ft.	24 AWG	White	**5YMD7**	
12 ft.	24 AWG	Black	**5YMD9**	
15 ft.	24 AWG	Black	**5YME0**	
HDMI Female/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed				
3 ft.	24 AWG	Black	**5RFG4**	
6 ft.	24 AWG	Black	**5RFG5**	
10 ft.	24 AWG	Black	**5RFG6**	
DVI-D Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Standard Speed				
25 ft.	26 AWG	Black	**5RFH9**	
25 ft.	24 AWG	Black	**5RFH7**	
50 ft.	22 AWG	Black	**5RFH1**	
DVI-D Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed				
25 ft.	22 AWG	Black	**5RFG9**	
DVI-D Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, Standard Speed				
10 ft.	28 AWG	Black	**5RFJ2**	†
15 ft.	28 AWG	Black	**5RFJ3**	†
35 ft.	24 AWG	Black	**5RFH8**	
DVI-D Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, High Speed				
3 ft.	28 AWG	Black	**5RFJ0**	†
3 ft.	24 AWG	Black	**5RFH3**	‡
6 ft.	28 AWG	Black	**5RFJ1**	†
6 ft.	24 AWG	Black	**5RFH4**	‡
10 ft.	24 AWG	Black	**5RFH5**	‡
15 ft.	24 AWG	Black	**5RFH6**	‡

† Ferrite cores. ‡ Net jacket.



No. 14X019



No. 5RGC5



No. 5RFX3

MONOPRICE

Video Cables

Cable Length	Gauge	Item No.
CPU Cord/DVI		
10 ft.	—	**14X019**
15 ft.	—	**14X020**
CPU Cord/VGA		
3 ft.	—	**14X015**
3 ft.	—	**14X021**
6 ft.	—	**14X016**
6 ft.	—	**14X022**
10 ft.	—	**14X023**
15 ft.	—	**14X018**
15 ft.	—	**14X024**
DisplayPort to DVI-D Single Link Male		
3 ft.	28 AWG	**5RGJ3**
6 ft.	28 AWG	**5RGJ4**
DisplayPort to Mini DisplayPort Male		
6 ft.	32AWG	**5RGH6**
15 ft.	32AWG	**5RGH8**
DVI-A to 3 RCA Component Male		
6 ft.	28AWG	**5RFX6**
DVI-D Dual-Link Male to DVI-D Dual Link Female		
6 ft.	28AWG	**5RFK5**
10 ft.	28AWG	**5RFK6**
DVI-D Dual-Link Male to DVI-D Dual Link Male		
3 ft.	28AWG	**5RFK1**
6 ft.	24AWG	**5RFJ5**
6 ft.	28AWG	**5RFK2**
10 ft.	24AWG	**5RFJ6**
10 ft.	28AWG	**5RFK3**
15 ft.	24AWG	**5RFJ7**
15 ft.	28AWG	**5RFK4**
25 ft.	24AWG	**5RFJ8**
35 ft.	24AWG	**5RFJ9**
50 ft.	24AWG	**5RFK0**
HDMI to M1-D(P+D) Male		
6 ft.	28AWG	**5RFN6**
50 ft.	24AWG	**5RFP1**
Mini DisplayPort Male to Male		
3 ft.	32AWG	**5RGG1**
6 ft.	32AWG	**5RGG2**
15 ft.	32AWG	**5RGG4**
Mini DisplayPort to DVI-D Single Link Male		
3 ft.	32AWG	**5RGH1**
6 ft.	32AWG	**5RGH2**
15 ft.	32AWG	**5RGH4**
Mini-HDMI (Type C) to HDMI (Type A)		
3 ft.	30AWG	**5RGJ5**
6 ft.	30AWG	**5RGJ6**

Cable Length	Gauge	Item No.
SVGA (HD15) and 3.5mm Stereo Audio Male to Male		
1 ft. 6"	28AWG	**5RGE3**
3 ft.	28AWG	**5RGE4**
6 ft.	28AWG	**5RGE5**
10 ft.	28AWG	**5RGE6**
15 ft.	28AWG	**5RGE7**
25 ft.	28AWG	**5RGE8**
35 ft.	28AWG	**5RGE9**
50 ft.	28AWG	**5RGF0**
100 ft.	28AWG	**5RGF2**
SVGA (HD15) Male to Female		
3 ft.	28AWG	**5RGD5**
6 ft.	28AWG	**5RGD6**
10 ft.	28AWG	**5RGD7**
15 ft.	28AWG	**5RGD8**
25 ft.	28AWG	**5RGD9**
35 ft.	28AWG	**5RGE0**
50 ft.	28AWG	**5RGE1**
SVGA (HD15) Male to Male		
1 ft. 6"	28AWG	**5RGC5**
3 ft.	28AWG	**5RGC6**
6 ft.	28AWG	**5RGC7**
10 ft.	28AWG	**5RGC8**
15 ft.	28AWG	**5RGC9**
25 ft.	28AWG	**5RGD0**
35 ft.	28AWG	**5RGD1**
50 ft.	28AWG	**5RGD2**
75 ft.	28AWG	**5RGD3**
100 ft.	28AWG	**5RGD4**
SVGA Cable		
1 ft. 6"	30 to 32AWG	**14X036**
3 ft.	30 to 32AWG	**14X037**
6 ft.	30 to 32AWG	**14X031**
6 ft.	30 to 32AWG	**14X038**
10 ft.	30 to 32AWG	**14X032**
10 ft.	30 to 32AWG	**14X039**
15 ft.	30 to 32AWG	**14X044**
15 ft.	30 to 32AWG	**14X045**
25 ft.	30 to 32AWG	**14X033**
25 ft.	30 to 32AWG	**14X040**
35 ft.	30 to 32AWG	**14X034**
50 ft.	30 to 32AWG	**14X035**
50 ft.	30 to 32AWG	**14X042**
VGA(HD15), USB-A to M1-D(P+D), USB-B Male		
6 ft.	28AWG	**5RFP2**
VGA(HD15) to 3 RCA Component Male		
3 ft.	28AWG	**5RFW9**
50 ft.	28AWG	**5RFX3**


No. 14C346


No. 14C361


No. 14C246

MONOPRICE

Audio and Video Adapters

Connection A to Connection B	Color	Item No.
Audio/Video Adapters		
(5) RCA Females to 5-RCA Female	Black	14C346
BNC Female to BNC Female	Gold	6CZR8
BNC Female to RCA Male	Gold	6CZP8
BNC Male to F-Type Female	Gold	14C358
BNC Male to N-Type Female	Gold	6CZR7
BNC Male to RCA Female	Gold	6CZP9
BNC Male to RCA Male	Gold	6CZR0
F-Type Female to F-Type Male	Gold	14C363
Mini DisplayPort Male to DisplayPort Female	White	14C361
RCA Female to F-Type Female	Gold	6CZR4
RCA Male to F-Type Female	Gold	6CZR5
Audio Adapters		
(2) 3.5mm Stereo Males to 3.5mm Stereo Female	Black	38F907
(2) RCA Females to (2) RCA Females	Black	14C348
(3) RCA Females to (3) RCA Females	Black	14C349
¼" Mono Female to ¼" Mono Female	Black	14C341
¼" Mono Male to 3.5mm Mono Female	Gold	14C275
¼" Mono Male to 3.5mm Stereo Female	Black	14C246
¼" Mono Male to 3.5mm Stereo Female	Gold	14C276
¼" Mono Male to RCA Female	Black	14C258
¼" Mono Male to RCA Female	Gold	14C285
¼" Stereo Female to ¼" Stereo Female	Gold	14C222
¼" Stereo Male to 3.5mm Stereo Female	Black	14C248
¼" Stereo Male to 3.5mm Stereo Female	Gold	14C278
¼" Stereo Male to RCA Female	Black	14C259
2.5mm Mono Male to 3.5mm Mono Female	Black	14C230
2.5mm Mono Male to 3.5mm Stereo Female	Black	14C231
2.5mm Stereo Male to 3.5mm Stereo Female	Black	14C233
3.5mm Mono Female to 3.5mm Mono Female	Black	14C339
3.5mm Mono Male to 3.5mm Stereo Female	Black	14C237
3.5mm Mono Male to 3.5mm Stereo Female	Gold	14C267
3.5mm Mono Male to RCA Female	Black	14C255
3.5mm Mono Male to RCA Female	Gold	14C283
3.5mm Stereo Female to 3.5mm Stereo Female	Black	14C340
3.5mm Stereo Female to 3.5mm Stereo Female	Gold	14C294
3.5mm Stereo Male to ¼" Stereo Female	Black	14C244
3.5mm Stereo Male to ¼" Stereo Female	Gold	14C274
3.5mm Stereo Male to 2.5mm Stereo Female	Black	14C235
3.5mm Stereo Male to 3.5mm Mono Female	Gold	14C269
3.5mm Stereo Male to RCA Female	Black	14C256
3.5mm Stereo Male to RCA Female	Gold	14C284
RCA Female to RCA Female	Black	14C345
RCA Female to RCA Female	Gold	14C288
RCA Male to ¼" Mono Female	Black	14C352
RCA Male to 3.5mm Mono Female	Black	14C350
RCA Male to 3.5mm Stereo Female	Black	14C351
RCA Male to RCA Female	Black	14C343
RCA Male to RCA Male	Black	14C344
Toslink Female to Mini Toslink Male	Black	14C215
Audio Splitters		
3.5mm Stereo Male to (2) 3.5mm Stereo Females	Black	14X117
3.5mm Stereo Male to (2) 3.5mm Stereo Females	Black	38F906
HDMI Adapters		
HDMI Female to HDMI Female	Black	6CZD9
HDMI Female to HDMI Female	Black	6CZE0
HDMI Female to HDMI Female	Black	6CZE1
HDMI Male to HDMI Female	Black	6CZE2
HDMI Male to HDMI Female	Black	6CZE3
HDMI Male to HDMI Female	Black	6CZE4
HDMI Male to HDMI Female	Black	6CZE5
HDMI Male to HDMI Female	Black	5RFG3
HDMI Male to Mini HDMI Female	Black	14C357
Micro HDMI Male to HDMI Female	Black	14C364
Micro HDMI Male to HDMI Female	Black	14C367
Video Adapters		
(3) RCA Females to 3-RCA Female	Black	6CZT3
DVI Female to DVI Female	Gray	14C356
DVI-I Male to 3-RCA Female	Black	14C355
VGA Male to 4-Pin S-Video and RCA Females	Black	14C213


No. 14C235


No. 14C343


No. 14C215


No. 6CZE2


No. 14C367


No. 14C356


No. 38F880


No. 14C379


No. 14J380


No. 6CZH5

MONOPRICE

Audio/Video Wall Plates

Cable Type	No. of Gangs	No. of Ports	Color	Item No.
3-Gang, 7.1 Stereo	3	16	White	14J376
Banana Post	1	2	White	14J362
Banana Post	1	8	White	14J370
Cable/Recessed	1	—	Black	38F873
Cable/Recessed	1	—	Brown	38F874
Cable/Recessed	1	—	Ivory	38F875
Cable/Recessed	1	—	White	38F877
Cable/Recessed	2	—	Black	38F878
Cable/Recessed	2	—	Ivory	38F880
Cable/Recessed	2	—	Light Almond	38F881
Cable/Recessed	2	—	White	38F882
Cable/Recessed	3	—	Black	38F883
Cable/Recessed	3	—	White	38F885
Cat 5/F-Type	—	—	White	14C379
HDMI 1.3 to 2 (Pair) Cat5e/6	—	1	White	6CZG8
HDMI with Extension	1	1	White	14J380
HDMI with Extension	1	2	White	14J384
Low Voltage with Duplex	1	—	White	38F866
Low Voltage with Duplex and Surge Suppressor	1	—	White	38F867
Recessed	—	—	White	38F869
Recessed	2	—	White	38F872
VGA Female, 3.5mm Stereo	—	—	White	6CZH5
XLR(M), 3Pin	1	2	Zinc Alloy	14J379


No. 5YLW8


No. 5YLX2

HUBBELL®
Wiring Device-Kellems

Video Wall Plates

- 1-gang
- Box mount

No. of Ports	Cable Type	IVORY Item No.	WHITE Item No.	LIGHT ALMOND Item No.
1	F Type Coupler	5YLW8	5YLW9	5YLX1
2	Cat 5e and F-Type Coupler	5YLX2	5YLX3	5YLX5
1	HDMI	5YLX6	5YLX7	5YLX9


No. 5YLX7

USB Cables and Power Adapters



No. 488H50


No. 55FA31


No. 450X55


No. 450X64

Connector Type	Features	Cable Length	Color	Item No.
Cat				
A Male to B Micro Male	Dual-Ended Advanced Strain Relief, Ultra-Rugged Reflective Cabling, RF Shield for Faster Sync with Less Interference	10 ft.	Black	**488H51**
A Male to C Male		6 ft.	Black	**488H52**
A Male to Lightning® Male		10 ft.	Black	**488H50**
Mobilespec				
A Male to 5 Pin B Micro Male	—	5 ft.	Black	**55FA31**
A Male to 5 Pin B Micro Male		9 ft.	Black	**55FA32**
A Male to B Micro Male	Micro USB Connector	12 ft.	Black	**450X57**
A Male to B Micro Male	Micro USB Connector, Easy Grip Ends	6 ft.	Black	**450X55**
A Male to B Mini Male	Mini USB Connector	12 ft.	Black	**450X67**
A Male to Lightning® Male	—	6 ft.	Black	**55FA43**
A Male to Lightning® Male		6 ft.	white	**55FA45**
A Male to Lightning® Male		9 ft.	Black	**55FA41**
A Male to Lightning® Male	Lightning® Connector	6 ft.	Black	**450X58**
A Male to Lightning® Male		6 ft.	White	**450X60**
A Male to Lightning® Male		9 ft.	Black	**450X59**
A Male to Lightning® Male	Lightning® Connector, LED Technology	6 ft.	Black	**450X63**
A Male to Lightning® Male	Lightning® Connector, Power Flow Indicator When In Use	3 ft.	White	**450X62**
A Male to Lightning® Male, B Micro Male	Lightning®, Micro USB Connectors	3 ft.	Black	**450X64**
A Male to Lightning® Male, Micro Male		7 ft.	Black	**450X65**
A Male to Lightning® Male, Micro Male, USB-C	Lightning®, Micro USB, USB-C Connectors	6 ft.	Black	**450X66**
A Male to Mini, Micro, USB-C, Nintendo®, PSP®, Samsung® Connectors	Adapter Socket	3 ft.	Black	**450X71**
A Male to Mini, Micro, USB-C, Nokia®, Samsung® Connectors		3 ft.	Black	**450X70**
A Male to USB-C	—	3 ft.	black	**55FA53**
A Male to USB-C		6 ft.	Black	**55FA49**


No. 450X71

Item	Features	Amps	Item No.
Mobilespec			
Power Adapter	Dual USB Ports, Adjustable Plug, LCD Display with Color Indicators Provides Charging Status	5	**450X46**
Power Adapter	Dual USB Ports, Powerful Charging For All Devices	3	**450X36**
Power Adapter	Dual USB Ports, Powerful Charging For All Devices, Glass Punch, Seat Belt Cutter	3	**450X38**
Power Adapter	Quad USB Ports, Slim Design to Fit In Tight Spaces	10	**450X45**
Power Adapter	Single USB-C Port, Powerful Charging For All Devices	3	**450X41**
Power Adapter	Triple USB Ports, Qualcomm® Quick Charge™ Technology Allows Connections of Cables In Any Direction	3	**450X42**


No. 450X36

MONOPRICE

USB Cables

Connector Type	USB Spec.	Color	Features	1 FT. 6" Item No.	3 FT. Item No.	6 FT. Item No.	10 FT. Item No.	15 FT. Item No.
USB Cable								
A Male to 4 Pin B Mini Male	2.0	Black	Gold Plated, Ferrite Core	**5XFX4**	**5XFX5**	—	—	**5XFX8**
A Male to 5 Pin B Micro Male	2.0	Black	Gold Plated, Ferrite Core	**5XFY0**	**5XFY2**	**5XFY4**	**5XFY6**	**5XFY8**
A Male to 5 Pin B Micro Male	2.0	Black	Silver Plated	**5XFX9**	**5XFY1**	**5XFY3**	**5XFY5**	**5XFY7**
A Male to 5 Pin B Mini Male	2.0	Black	Gold Plated, Ferrite Core	**5XFW3**	**5XFW5**	**5XFW8**	**5XFX0**	**5XFX2**
A Male to 5 Pin B Mini Male	2.0	Black	Silver Plated	—	**5XFW4**	**5XFW6**	**5XFW9**	**5XFX1**
A Male to 5 Pin B Mini Male	2.0	Black	The Cable is Shielded Using Braid and Foil Shields and Includes a Single Ferrite Core	—	—	**5XFW7**	—	—
A Male to A Male	2.0	Black	Gold Plated	**5XFZ0**	**5XFZ1**	—	**5XFZ5**	**5XFZ7**
A Male to B Male	2.0	Black	Gold Plated	**5XFV2**	**5XFV3**	**5XFV4**	**5XFV7**	**5XFW0**
Extension USB Cable								
A Male to A Female	2.0	Black	Gold Plated	**5XGA2**	**5XGA4**	**5XGA6**	**5XGA8**	**5XGC0**


No. 5XFY9


No. 5XFY6


No. 5XFX1


No. 5XFX9

Connector Type	USB Spec.	Features	Cable Length	Color	Item No.
Miscellaneous Lengths and Specialty Cables					
A Male to A Female	1.1	Silver Plated, Extender Over Cat5e/6 Connection up to 6⁴⁵⁄₆₄"	6⁴⁵⁄₆₄"	Black	**5XGC4**
A Male to A Female	2.0	Active Extension	16 ft.	Black	**13U534**
A Male to A Male	2.0	Gold Plated	6 ft.	Black	**5XFZ3**
A Male to A Mini Male	2.0	Gold Plated	2 ft. 6"	Black	**5XFY9**
A Male to B Female	2.0	Active Extension	32 ft.	Black	**13U535**
A Male to B Male	2.0	Active Cable	33 ft.	Black	**13U532**
A Male to B Male	2.0	Active Cable	49 ft.	Black	**13U533**


No. 5XGC4

MONOPRICE

Computer Cable Adapters

Connector Type	Color	Item No.
Displayport Male/DVI-D Female	Black	**6CZL2**
Displayport Male/HDMI Female	Black	**6CZL3**
Displayport Male/VGA Female	Black	**6CZL4**
DVI-D Single Link Male/ HDMI Female	Black	**6CZC3**
DVI-I Dual Link Male/VGA(HD15) Female	Black	**6CZC6**
HDMI Female/DVI-D Single Female	Black	**6CZC4**
HDMI Male/DVI-D Female	Black	**6CZC5**
M1-A(Plug and Display) Male to VGA (HD15) Female	Black	**6CZD6**
M1-D-(Plug and Display) Male/HDMI Female	Black	**6CZD1**
Mini Displayport/DVI	White	**6CZK9**
Mini Displayport/VGA	White	**6CZL1**
Mini Displayport Male and USB Male Audio/HDMI Female	White	**6CZK7**
Mini DVI/HDMI	White	**6CZD4**
Mini DVI/VGA	White	**6CZD5**
Mini HDMI(Type C) Male/HDMI(Type A) Female	Black	**6CZD2**
VGA(HD15) Male to DVI-A Female	Black	**6CZC7**


No. 6CZL2


No. 6CZL3


No. 6CZL4


No. 6CZC3


No. 6CZK9


No. 6CZL1


No. 6CZK7


No. 6CZD5



No. 5LJ29



No. 12V423



No. 2HTJ8



No. 2HTJ9



No. 54DF41



No. 54DF42





No. 54DF44

IDEAL. FLUKE networks. Southwire

Network Test Tools

Description	Model	No.
IDEAL		
LinkMaster™ Tester, Checks for shorts, miswires, reversals, and split pairs	62-200	**5LJ29**
LanXPLORER PRO Tester, Copper/fiber/wireless network analyzer with in-Line RJ-45 allows monitoring of network traffic between any two points in the network to diagnose Ethernet, identifies top 10 bandwidth consuming, identifies source of network IP conflicts wiremap and PoE /PoE+ load tests, Netmap a scans entire to identify new or removed devices, or changes in configuration. Stores 5000 test reports, compatible with IDEAL AnyWARE iOS/Android app for wireless report transfers, Touch Screen, VoIP Monitor, PoE/PoE+ Inline Current Test, PC Diagnostics, Inline LAN Testing, Loopback Mode, Endpoint LAN Testing	R150001	**12V423**
Nylon Carrying CaseFor Use With Mfr. No. R153000, R151000, R151002	151054	**29NV60**
NiMHFor Use With Mfr. No. R153000, R151000, R151002	151053	**29NV61**
Battery Adapter for Operation with AA Batteries, For Use With Mfr. No. R153000, R151000, R151002	151052	**29NV62**
AC Power Adapter, For Use With Mfr. No. R153000, R151000, R151002	151051	**29NV63**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, CAT 5E	150055	**29NV64**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, LC-LC Multimode Jumper	150056	**29NV65**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, LC-LC Single Mode Jumper	150057	**29NV66**
Fluke Networks		
CableIQ™ Advanced Qualification Kit, Cable Tester Kit, Qualifies Voice 10/100BASE-T, VoIP or Gig, Troubleshoots Cabling Performance, Generates Printable Reports, Tones and Traces Cable	CIQ-KIT	**2HTJ8**
CableIQ™ Advanced Qualification Tester, Cable Tester, Qualifies Voice 10/100BASE-T, VoIP or Gig, Troubleshoots Cabling Performance, Generates Printable Reports	CIQ-100	**2HTJ9**
1 Versiv Mainframe & Remote, (2) DSX-8000 CableAnalyzer modules, (2) CertiFiber Quad OLTS modules, OptiFiber Quad OTDR module, Set of Cat 8/Class I Permanent Link Adapters, Set of Cat 8/Class 1 Channel Adapters, (2) Headsets, (2) HandStraps, (2) Shoulder Straps, Hard sided Carry Case, USB Interface Cable, Versiv Open Source Software CD, (2) AC Chargers, (2) Universal Couplers, (2) AxTalk Terminators, (2) Quick Clean Cleaners (1.25/2.50 mm), SC/SC Simplex adapters, 2 SC/LC Multimode Launch Cables—50 µm, 2 SC/LC Singlemode Launch Cable—9 µm, USB Fiber Inspection Video Probe with 4 Tips, (2) LC/LC Simplex Adapter, SC/LC EF-Compliant MM TRC Kit 50 µm, SC/LC SM TRC Kit, TRC Carry Case, WIFI Adapter, Statement of Calibration and Getting Started Guides	DSX2-8000QOI	**54DV23**
(2) DSX-8000 CableAnalyzer Modules, Set of Cat 8/Class I Permanent Link Adapters, Set of Cat 8/Class I Channel Adapters, (2) Headsets, (2) HandStraps, (2) Shoulder Straps, Carry Case, Versiv Open Source Software CD, (2) AC Chargers, (2) Universal Couplers, (2) AxTalk Terminators, Statement of Calibration and Getting Started Guide	DSX-8000-ADD	**54DV33**
1 GHZ DSX Replacement Module	DSX-8000-MOD	**54DV37**
Southwire		
Cable Mapper, Copper Cable Testing Verification, Built-In Toner, Port Covers, LCD Backlit Display, For Use With Mapper Remote and Cable Mapper Remote Kit	M300P	**54DF41**
Cable Tester, Copper Cable Testing Verification, Built-In Toner, Port Covers, LCD Backlit Display	58744840	**54DF42**
Cable Tester, Copper Cable Testing Verification, Identifies Correct Wiring, Opens, Shorts, Reversals, Split Pairs and Shielded Cables, Auto Power Off, Tests Shielded, Unshielded Twisted Pair and Coax	58745040	**54DF44**


No. 6KJU4


No. 6LFY3


No. 22LV15


No. 12N847

IDEAL® HUBBELL® Hubbell Premise Wiring FLUKE networks

Fiber Optic Cable Testing Instruments

Description	Mfr. Model	Item No.
IDEAL		
Fiber Optic Test Kit, Power Measurement In dBm and W, Loss Display In dB, Four Wavelength MM/SM Light Source	33-931	**6KJU4**
Fiber Fault Finder, Finds Breaks, Faulty Splices and Crimps Poor Components or Connections for Fiber Cable, Visually Identifies and Locates Faults in Fiber Optic Cabling, 2.5mm Universal Adaptor for All ST, SC and FC Connectors, Useful Over a Distance of 5km (3 miles), Up to 80 hours of Operation, Ruggedised Aluminium Body	VFF5	**6LFY3**
Hubbell Premise Wiring		
Fiber Visual Fault Locator Kit, Fiber Terminations and Breaks, 1.25MM and 2.5MM Ferrule Adapters	OFVFLKT1	**22LV15**
Fluke Networks		
Fiber Optic Cleaning Supplies, Fiber Optic Cleaning, Solvent, Swabs and Cube	NFC-KIT-BOX	**12N847**
Fiber Optic Cleaning Supplies, Fiber Optic Cleaning, Solvent, Swabs, Cube and Case	NFC-KIT-CASE	**12N848**
Visual Fiber Optic Fault Locator, Visible Light Source That Helps Trace Optical Fibers, Check Fiber Continuity, And Find Faults Such as Breaks, Bad Splices, and Tight Bends In Fiber Optic Cable	VisiFault	**2EHV6**
Basic Fiber Verification Kit (MM), Verify Optical Loss and Power Levels	FTK1000	**4AZZ3**
Fiber Optic Tester, Fiber Optic Video Inspection, Detects (850/1300nm) Multimode and (1310/1550nm) Single Mode Wavelengths, Locate Connections and Faults, Measure Loss and Reflectance, Allow Tier 2 Certification	OFP-Q-ADD	**54DV48**
Fiber Optic Tester, Fiber Optic Video Inspection, Extended Single Mode Distance Range to 130km, Versiv™ Modular Design Supports Copper Certification, Fiber Optic Loss, OTDR Testing and Fiber End Face Inspection	CFP-Q-ADD	**54DV49**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-100-M	**54DV52**
Fiber Optic Fault Locator, Fiber Troubleshooting, Works On Multimode Fiber, 9/125µm and 62.5/125 µm, Locate Severe Bends, High-Loss Splices, Breaks and Dirty Connectors In Single Mode Fiber, Change The Index of Refraction (IOR) to Improve Fiber Length Accuracy	FQM-100-M-VFL	**54DV53**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-M	**54DV54**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-SFP-M	**54DV55**


No. 2EHV6


No. 4AZZ3


No. 54DV53

FLUKE networks Southwire

Coax Test Tools


No. 12N834


No. 12N837


No. 2HTK1


No. 2HTK2

Description	Mfr. Model	Item No.
Fluke Networks		
Pocket Toner, Continuity, AC and DC Voltages, Shorts, Opens and 50-75 Ohm Termination, Bi-gender Toner Unit with Speed 81,8-Segment LED,Low-voltage Circuit Protection,Auto Shutoff Feature	PTNX2	**12N834**
Pocket Toner, Continuity, Opens and Shorts, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX1	**12N835**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination, Two Buzzers to Indicate Continuity, Bi-Gender Toner Unit with Speed 81, Removable Toner Unit, 8-Segment LED Displays 5 Different Test Results, Low-Voltage Circuit Protection, Auto Shutoff Feature, Ability to Test Dial Tone and Polarity, 8 ID Caps	PTNX8	**12N836**
Pocket Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-CT	**12N837**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-Cable	**12N838**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-DLX	**12N839**
Pocket Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-VV-PRO	**12N840**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX2-DLX	**12N841**
MicroScanner² Professional Kit, Cable Tester Kit, Verifies 10/100/1000 Ethernet, POTS and PoE Voltage, Cable Length, Wiremap, Cable ID and Distance, Locates Virtually Any Cable or Wire Pair	MS2-KIT/WWG 3084134	**2HTK1**
MicroScanner² Cable Verifier, Cable Tester, Verifies 10/100/1000 Ethernet, POTS and PoE Voltage, Cable Length, Wiremap, Cable ID, and Distance	MS2-100/WWG 3084165	**2HTK2**
Southwire		
Coax Continuity Tester and Mapper, Auto Power Off, Identify Up to (4) Coax Cable Remote Locations, (4) ID Remotes, (4) 1.5 VLR44 Batteries	58744940	**54DF43**


No. 2UWP9


No. 2UWR1


No. 2UWR2


No. 5VYE0


No. 12N846

IDEAL. FLUKE networks. Southwire.

Tone Generators and Probes Test Tools

Description	Mfr. Model	Item No.
IDEAL		
Tone Generator and Probe Kit, Cable/Wire and Pair Tracing, Continuity Testing, Polarity Indication and Service Detection, For Use With Twisted Pair, Single Conductor, Datacom and Generic Cables/Wiring, Includes 62-160 Tone Generator, 62-164 Amplifier Probe, Lead Set, Cable Assembly, Carrying Case/Pouch, Instructions and (2) 9V Batteries	33-864	**2UWP9**
TTT Kit, Copper Cable Wire Mapping, Wiremap, Tone Generation, Amplifier Probe, Includes Carrying Case, (5) Adapters	33-866	**54DV75**
Speaker Probe, Cable/Wire and Pair Tracing and Tone Detection, Battery low indicator	62-164	**2UWR1**
Tone Generator, Cable/Wire and Pair Tracing, Continuity Testing, Polarity Indication and Service Detection, Emits Three Different Types of Tones, Auto Off	62-160	**2UWR2**
Fluke Networks		
Tone Generator and Probe Kit, Cable/Wire and Pair Tracing, Continuity Testing and Polarity Indication, ABN, Strong Signal 10.5 Miles, Smart Tone	26000900	**5VYE0**
Cable Tracing Probe, Copper Cable Tracing (Probe), Loud Speaker On Probe	26100900	**54DV59**
Cable Tracing Tone Generator, Copper Cable Tracing (Tone), SmartTone™ Technology	26200900	**54DV60**
Copper Tester, Copper Cable Wire Mapping, Includes MicroMapper and MicroMapper Remote, Patch Cable, 6-volt Alkaline Battery and Guide	MT-8200-49A	**12N846**
Tone Generator and Probe Kit, For Use With Twisted Pair, Single Conductor, Coax, Datacom and Generic Cables/Wiring, Includes MT-8200-61-TNR Tone Generator, MT-8200-63A Probe, Coax F-Connector Adapter, (2) RJ11 and (2) RJ45 Patch Cables, Lanyards, (2) 9V Batteries and Instructions	MT-8200-60-KIT	**36TV42**
Southwire		
Tone Generator and Probe Kit, Copper Cable Tracing (Tone & Probe Kit), Quickly Trace Non-Energized Cables, Positive Cable Detection, Toner On-Board Test Lead Storage, Probe Replaceable Tip, LED Flashlight, LED Signal Strength Indicator, Rearward Facing Speaker and Stereo Headphone Jack, Includes Nylon Pouch, (2) 9V Batteries	58746340	**54DF51**
Tone Generator, Copper Cable Tracing (Tone), Patented Design, ABN Clips, On-Board Test Lead Storage, Tone Change, Includes (2) AAA Batteries	58746440	**54DF52**
Amplifier Probe, Copper Cable Tracing (Probe), Adjustable Volume, Headphone Jack, Indicator Light, Forward Facing Flashlight, Includes (2) AAA Batteries	58746540	**54DF53**
Tone Generator and Probe Kit, Copper Cable Tracing (Tone & Probe Kit), Belt-Mount, Rugged Carrying Case, Audible and Visual Detection, Includes (4) AAA Batteries, Carrying Case, RJ11 Adapter, RJ45 Adapter, Coax Adapter, F-Type Adapter, Automotive Fuse Adapter, Alligator Clip Adapter	58746640	**54DF63**


No. 5VYD8


No. 5VYD9


No. 2NV58


No. 54DF45


No. 54DV71


No. 54DV72

FLUKE networks. IDEAL. Southwire.

Voice, Data, and Video Test Tools

Description	Mfr. Model	Item No.
Fluke Networks		
In-Line Modular Adapter, For Use With RJ45 and RJ11, 6-Conductor	10220100	**5VYD8**
Modular Adapter, For Use With RJ11, 4-Conductor	10113000	**5VYD9**
IDEAL		
Multimedia Cable Tester, Tests voice, data, and video cables and interfaces for opens, shorts, miswires, reversals, split pairs, and correct wiremap, Easy To Read LCD Display With PASS/FAIL Indicator After Each Test	33-856	**2NV58**
VDV II, Copper Cable Wire Mapping, Wiremap and Tone Generation, For Use With Twisted Pair and Coax	R158000	**54DV70**
VDV II Plus, Copper Cable Wire Mapping, Wiremap, Tone Generation, For Use With Twisted Pair and Coax	R158002	**54DV71**
VDV II Pro, Copper Cable Wire Mapping, Wiremap, Tone Generation, TDR Distance, PoE Indication, Ethernet Detection, For Use With Twisted Pair and Coax	R158003	**54DV72**
VDV II Remotes, For Use With VDV II Tester	158050	**54DV62**
VDV II Identifiers, For Use With VDV II Tester	158051	**54DV63**
VDV II Remotes, For Use With VDV II Tester	158053	**54DV64**
Southwire		
Phone Outlet Tester, Copper Cable Testing Verification, Identifies Correct Wiring, Line Reversed, AC Ring Voltage and Dead Line Conditions, Tests Both Line 1 and Line 2, Tri-Color LED's Display Outlet Condition, Color Legend Printed On Tester, For Use With Telephone Test Set	58745340	**54DF45**


No. 36T731


No. 5VYE2


No. 5VYE3


No. 5VYE4


No. 5VYE5

Butt-In Test Set Tools

FLUKE networks. Southwire.

Description	Mfr. Model	Item No.
Fluke Networks		
Test Set, VDV, Polarity Indication, Last Number Redial, Mute, DSL/POTS Filtering, Data Lockout Protection/Override, One-Way Amplified Speaker, Two-Way Speakerphone, Speed Dial Memory, Backlit Keypad and Rain/Drop Safe	TS54-A-09-TDR	**36T731**
Test Set, Butt in Test Set, Telephone Test Set, Line Monitor, Polarity Indication and Last Number Redial	19800009	**5VYE2**
Test Set, Butt in Test Set, Telephone Test Set, Line Monitor, Polarity Indication, Last Number Redial and Mute	30800009	**5VYE3**
Test Set, Butt in Test Set, Telephone Test Set, Line Monitor, Tone Generator, Digit Grabbing, Caller ID, Call Waiting Caller ID, Data Safe, Polarity Indication, Last Number Redial, Mute, DSL/POTS Filtering, Data Lockout Protection/Override, One-Way Amplified Speaker and Speed Dial Memory	25501109	**5VYE4**
Test Set, Butt in Test Set, Telephone Test Set, Digit Grabbing, DC Meter, Miliamp Detection, Caller ID, Data Safe, Polarity Indication, Last Number Redial, Mute, DSL/POTS Filtering, Data Lockout Protection/Override, One-Way Amplified Speaker, Two-Way Speakerphone, Speed Dial Memory and Backlit Keypad	52801009	**5VYE5**
Test Set, Telephone Line Tester, Amplified Speaker, Drop Safe, One-Way Speakerphone	22800009	**54DV58**
Southwire		
Telephone Test Set, Line Monitor, Electronic Ringer, Autodial, Hi-Z Monitoring, High and Low Volume Settings, Polarity LED, Tone and Pulse Modes, ABN (Angled Bed of Nails) Clips with Rugged RJ45 and RJ11 Plugs, Last Number Redial and Memory to Store Up to (10) Phone Numbers	B600	**54DF31**
Replacement Leads, Telephone Test Set, Angled Bed of Nails, For Use With Mfr. No. B600	58743040	**54DF60**



No. 5VYE6



No. 5VYE7



No. 6KJT7



No. 6KJT9

FLUKE networks. IDEAL. JONARD INDUSTRIES CORP. Southwire

Voice/Data Installation Tool Kits

Description	Mfr. Model	Item No.
Fluke Networks		
4 pc., Communications Tool Kit, Includes Impact Tool, D-Snips, Cable Stripper, Mini Maglite, Sharpie pen, 66/110 Cut Blade	11293000	**5VYE6**
6 pc., Communications Tool Kit, Includes TS30, Probe Pic, 66/110 Eversharp Combo Blade, D-Snips, D814 Impact Tool, 4-Wire Modular Adapter and Round Cable Stripper	11290000	**5VYE7**
IDEAL		
6 pc., Pro Network/Telco Installer Kit, Includes (50) RJ45 Modular Plugs	33-506	**6KJT7**
15 pc., Communications Tool Kit, Features Telephone Tool, Punch Down Tool, Probe Pick & Spudger, Coax Stripper, Scissor/Knife Kit, Punch Down Blade, LinkMaster Tester, Screwdriver, Tone and Probe Kit, 6-Position Modular Adapter, Wire Stripper/Crimper, RJ45 Modular Plug, Bag	33-706	**6KJT9**
Jonard Tools		
General Hand Tool Kit, Includes Dual Compression Tool, Screwdriver, Cable Stripper with Stop, LED Flashlight, Pocket Continuity Tester and Toner, High Leverage Cutter Plier, Torque Wrench, Pouch with Belt Clip	TK-87	**54DV85**
General Hand Tool Kit, Includes LED Flashlight with Zoom Lens, Pocket Continuity Tester and Toner, High Leverage Diagonal Cutter Plier, Torque Wrench, Molded Pouch with Belt Clip	TK-89	**54DV86**
Southwire		
Communications Tool Set, Includes Crimp Tool, Punchdown Tool, RJ45 Connector, Screwdriver	58744140	**54DF61**
Communications Tool Set, Includes Round Cable Cutter, Coax Trigger Strip Tool, F-Type Compression Connector, Compact Compression Coax Crimp Tool	58744040	**54DF39**



No. 22C740



No. 54DV74



No. 54DV79



D-Snips
No. 5VYD4



Can Wrench
No. 5VYD6

IDEAL. FLUKE networks. Southwire. JONARD INDUSTRIES CORP.



No. 5VYD5



No. 483K15

Data Comm Hand Tools

Description	Mfr. Model	Item No.
IDEAL		
Crimper, Crimps IDC Connectors, Slim, Lightweight, Locking Latch, Cushion Grip	33-719	**22C740**
Crimper and Connector Kit, For Use With Modular Plugs, RJ-45, RJ-11, Includes (10) RJ45, (10) RJ11	33-396	**54DV65**
Crimper, For Use With Compression C, BNC, RCA Connectors, Adjustable Post, RG-59, RG-6	33-632	**54DV74**
Crimper, For Use With Mfr. No. 85-371, 85-376, Feed-Thru, RJ-45	30-495	**54DV79**
Fluke Networks		
Electricians Scissors, Wire Stripper, Ergonomic D-handle, 3" Long Blade, Cable Snips, Cutters, Datacom Scissors, Electrician Snips	44300000	**5VYD4**
Can Wrench, Security Cabinet Wrench, For Use With Cross Boxes, Cabinets, Nids	44007000	**5VYD6**
Needle Nose Pliers, For Use With Datacom/Electrical Cable, Scotch Locks	11294000	**5VYD5**
Southwire		
Crimper and Connector Kit, For Use With CATV Cables, F Connectors, RG-59, RG-6 and RG-6Q, Includes (4) F Connectors for RG6 Coax	58743140	**54DF33**
Crimper, For Use With CATV Cables, RCS, BNC Connectors, 3-Way Chuck, Rotatable Connector Seat, Double-Molded Grips, Handle Lock, RG-7, RG-11, RG-59, RG-6, RG-6Q	58743240	**54DF34**
Crimper, For Use With Strips 20 to 24 AWG Wires, UR/UY/UG Crimper, Hot-Rivet Joint, 22 to 24 AWG	58744240	**54DF40**
Crimper, For Use With Phone and Data Cables, Cutting Blade, Handle Lock, RJ-45, RJ-11, RJ-12	59148440	**54DF48**
Ratchet Crimper, For Use With Coax Cable, X Connectors, Near-Parallel Travel Crimping Jaw, Precision Ratchet with Release, Handle Lock, RG-59, RG-6 and RG-6Q	58745640	**54DF58**
Jonard Tools		
Dual Compression Tool, For Use With F-Type RG-6 and 59 Connector, Used On Short or Long F Connectors For RG-6 & RG-59, Also Works On RG-11, Includes Dual Compression Head	CTF-230	**54DV89**
Fiber Optic Stripper, For Use With Fiber Optic Cables, Ergonomic Design, Yellow Thermoplastic Rubber Handle	JIC-200	**483K15**



No. 54DF47



No. 5VYC8



No. 5VYC9



No. 5VYD0

Punchdown Tools

Description	Mfr. Model	Item No.
Fluke Networks		
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10055501	**5VYC8**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10051501	**5VYC9**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10061501	**5VYD0**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10061810	**5VYD1**
JackRapid Termination Tool, for Category Cable to Leviton 110 Cat 5 Jacks, Multi Pair Termination	JR-LEV-1	**5VYD2**
JackRapid Termination Tool, for Category Cable to Leviton 110 Cat 6 Jacks, Multi Pair Termination	JR-LEV-2	**5VYD3**
Punch Down Tool Kit, 110/66 Blade Type, Includes Impact Tool, D-Snips, Cable Stripper, Probe Pic	11291000	**54DV56**
Punch Down Tool Kit, 110/66 Blade Type, Includes Impact Tool, D-Snips, Cable Stripper, 66 and 110 Blades	11292000	**54DV57**
Southwire		
Punch Down Tool Blade, 110 Blade Type, Includes Blade	58745440	**54DF46**
Punch Down Tool Blade, 110/66 Blade Type, Includes (2) Blades	58745540	**54DF47**
Punch Down Blade, 110 Blade Type, Description/Special Features Reversible, Metal Injection-Molded Blade	58742640	**54DF29**
Punch Down Blade, 66 Blade Type, Description/Special Features Reversible, Metal Injection-Molded Blade	58742740	**54DF30**



Coax Stripper
No. 5VYD7



No. 54DV76



No. 54DV84



No. 54DF50



No. 54DF59

Coax Strippers/Cutters

Description	Mfr. Model	Item No.
Fluke Networks		
Radial Coax Stripper, 2 and 3 Levels	11231255	**5VYD7**
IDEAL		
Replacement Cartridge, Notched Blade, Strip Only, Coax, RG59, RG6, RG6Q	45-6051	**54DV66**
Replacement Cartridge, Strip Only, UTP, CAT5e, CAT6	45-6052	**54DV67**
Cable Stripper, Spring Load Handle, Strip/Buffing Removal, Fiber Optic, 3mm, 900 microinch	45-352	**54DV76**
Jonard Tools		
Center Conductor Cleaner, Replaceable Blades, Clean, Coaxial	CC-120	**54DV84**
Stubby Strip Tool, Replaceable Blades, Strip Only, Coaxial, RG59/6	CSS-596	**54DV88**
Replacement Blade Set, 5,000 Cuts	CSS-105	**54DV87**
Replacement Blade Set, Includes (2) V-Notched, (2) Straight Edged Cleaning Blades	CC-4	**54DV80**
Southwire		
Cable Stripper, (3) Positions for Different Size Cables, Strip Only, Category 3, 5, 5E and 6 Cables, 10 to 24 AWG	58746140	**54DF49**
Cable Stripper, Spring Loaded, Strip Only, Coaxial, 24 to 18 AWG	58746240	**54DF50**
Cable Stripper, Adjustable Strip, Cuts and Strips Twisted Pair Cable, Rotate Knob to Adjust Strip Blade, Strip Only, Category 3, 5, 5E and 6 Cables, 10 to 24 AWG	58747040	**54DF55**
Coax Prep Tool	58743440	**54DF57**
Coax Cable Stripper, Stainless Steel for Corrosion Resistance, Strip/Cut, Coaxial, 24 to 18 AWG	58746840	**54DF59**



No. 21XN71



No. 6KJT8

Coax Crimpers

Description	Mfr. Model	Item No.
Compression Tool for BNC, F-Type, RG-11, RCA & Mini Coax Connectors; Cutting Multi-pair Cable up to ½" and Coax Cable up to RG-9U; Stripping RG-6, RG-6 Quad, RG-59 Coax Cable	33-793	**21XN71**
Termination for Crimp and Compression Connectors, Coax Crimper/Cutter/Stripper Kit	33-410	**6KJT8**



No. 20XW96



Labels
No. E7622

BRADY

BMP®21-Plus Handheld Labeler and Labels

- Autoformat for label size
- Dual cutters
- Serialization and barcoding
- Multiple-line printing
- Non-smearing thermal transfer
- Fit ID Pal labels

Printer with memory feature does terminal block marking, patch panel ID, and wire marking. Prints symbols, uppercase and lowercase characters in 6 font sizes. Backlit display is easy to read in wiring closets and other dark areas. Uses 6 AA batteries (not included). Includes 1 tape cartridge.

Easy-to-peel labels adhere to smooth and irregular surfaces. Nylon cloth B499 also adheres to highly textured surfaces.

Description	Mfr. Model	Item No.
Labelers and Accessories		
Portable Label Printer, Includes Lanyard, M21-750-499 Label Cartridge, Quick Start Guide	BMP21-PLUS	**20XW96**
Portable Label Printer Kit, Includes BMP21-PLUS Printer, M21-750-499 Label Cartridge, Hard Case, Li-ION Battery, AC Adapter/Charger, Quick Start Guide and Lanyard	BMP21-PLUS-KIT1	**20XW97**
AC Adapter, For Use With BMP®21 Label Printer (Mfr Model # BMP21), BMP®21-Plus Label Printer (Mfr Model # BMP21-PLUS), BMP®21-Lab Label Printer (Mfr Model # BMP21-LAB), IDXPERT Printer, LABXPERT Printer	M-AC-110937	**4YJZ6**
Magnet Holder	BMP21-MAGNET	**4TGY6**
Magnet Tool (Includes Flashlight, Pole Strap, Belt Loop, and Stand)	BMP21-TOOL	**4TGY7**

▶CHOOSE: Color	W	L	Mfr. Model	Item No.
Indoor/Outdoor Vinyl B595, Temp. Range: -40° to 176°F				
White/Blue, White/Green, Black/Orange, White/Red, Black/White, Black/Yellow	3/8"	21 ft.	M21-375-595	**E7622**
	1/2"	21 ft.	M21-500-595	**E7624**
	3/4"	21 ft.	M21-750-595	**E7626**
Self-Laminating Vinyl B427, Temp. Range: -40° to 158°F				
Black on White	3/4"	14 ft.	M21-750-427	**3PXW9**
	1"	14 ft.	M21-1000-427	**3PXX1**
	1 1/4"	14 ft.	M21-1250-427	**3PXX2**
	1 1/2"	14 ft.	M21-1500-427	**3PXX3**
Nylon Cloth B499, Temp. Range: -40° to 193°F				
Black/White	3/8"	16 ft.	M21-375-499	**3PXW3**
	3/8"	16 ft.	M21-375-499-TB	**4YJZ7**
	1/2"	16 ft.	M21-500-499	**3PXW4**
	1/2"	16 ft.	M21-500-499-TB	**4YJZ8**
	3/4"	16 ft.	M21-750-499	**3PXW5**
Solvent-Resistant Polyester B423, Temp. Range: -70° to 110°F				
Black/White	3/8"	21 ft.	M21-375-423	**3PXW6**
	1/2"	21 ft.	M21-500-423	**3PXW7**
	3/4"	21 ft.	M21-750-423	**3PXW8**
Solvent-Resistant Polyester B430, Temp. Range: 50° to 212°F				
Black/Clear	3/8"	21 ft.	M21-375-430	**3PXU5**
	1/2"	21 ft.	M21-500-430	**3PXU6**
	3/4"	21 ft.	M21-750-430	**3PXU7**
Self-Laminating Polyester B461, Temp. Range: -40° to 230°F				
Black/White/Clear	3/8"	21 ft.	M21-375-461	**3PXY1**
Black/White	1/2"	21 ft.	M21-500-461	**3PXY2**
	3/4"	21 ft.	M21-750-461	**3PXY3**
Polyester B488, Temp. Range: -40° to 230°F				
Black/White	3/8"	21 ft.	M21-375-488	**3PXY4**
	1/2"	21 ft.	M21-500-488	**3PXY5**
	3/4"	21 ft.	M21-750-488	**3PXY7**
PermaSleeve® Heat Shrink Polyolefin B342, Temp. Range: -40° to 267°F				
Black/White	1/8"	7 ft.	M21-125-C-342	**3PXV5**
	11/32"	7 ft.	M21-187-C-342	**3PXV6**
	0.25"	7 ft.	M21-250-C-342	**3PXV7**
	0.645"	7 ft.	M21-375-C-342	**3PXV8**

BRADY

i3300 Label Printer and Accessories

- Color Touch Screen Display
- Display Size 3.5 in
- Auto Cutter
- Auto Shut-Off

Hassle-free printers feature a smart chip that automatically sets up labels, eliminating calibration steps and reducing label waste. Print labels from 0.25"W to 4"W. Easy material changeover; drop in cartridge, lock it, and start typing. PC connect with Ethernet, USB, USB 2.0 or Wi-Fi.



No. 54YN75



No. 54YN76

Includes	Mfr. Model	Item No.
Bradyprinter™ i3300 Desktop Label Printer		
Cleaning Kit, Cutter Tool	149552	**54YN75**
Cleaning Kit, Cutter Tool, Wire Identification Software	150640	**54YN76**
Cleaning Kit, Cutter Tool, Scanner	150643	**54YN77**
Ribbons (Choose Color)		
Black	B30-R4300	**6XGZ2**
White	B30-R4400	**6XGZ3**
Black	B30-R6000	**6XGZ4**
Black	B30-R6200	**21U479**
Black	B30-R6400	**21U478**
Black, Blue, Green, Magenta, Orange, Red, White, Yellow	B30-R10000	**G8802**

W	H	▶CHOOSE: Color	Labels per Roll	Mfr. Model	Item No.	
Vinyl Self-Laminating Wire Markers, B-427						
1/2"	3/4"	Translucent/White	2500	B33-80-427	**21U337**	
1/2"	1"	Translucent/White	2500	B33-113-427	**21U339**	
1/2"	1 1/16"	Translucent/White	5000	B33-8-427	**21U344**	
3/4"	15/16"	Translucent/White	5000	B33-56-427	**21U338**	
1"	1"	Translucent/White	2500	B33-116-427	**21U340**	
1"	1 1/16"	Translucent/White	2500	B33-9-427	**21U346**	
1"	2 5/8"	Translucent/White	1500	B33-131-427	**21U343**	
1"	6"	Translucent/White	500	B33-81-427	**21U354**	
1 1/2"	3/4"	White	1500	B33-135-427AW	**21U355**	
1 1/2"	1"	Translucent/White	1250	B33-118-427	**21U341**	
1 1/2"	1 1/2"	Translucent/White	1000	B33-119-427	**21U347**	
1 3/4"	1"	Translucent/White	1250	B33-120-427	**21U342**	
1 3/4"	1 1/2"	Translucent/White	1000	B33-121-427	**21U348**	
2"	1"	White	1500	B33-137-427AW	**21U356**	
2 1/2"	2 1/4"	Translucent/White	500	B33-26-427	**21U351**	
Permanent Nylon Cloth, B-499						
3/8"	—	White	1500	B33-143-499	**21U449**	
1/2"	—	White	1500	B33-144-499	**21U450**	
13/16"	1 1/16"	White	2500	B33-165-499	**21U454**	
29/32"	1/2"	White	1500	B33-126-499	**21U448**	*
29/32"	1/2"	White	1500	B33-125-499	**21U452**	*
1"	3/8"	White	1500	B33-152-499	**21U453**	
1 1/2"	3/4"	White	1500	B33-136-499	**21U455**	
2"	1/4"	White	1500	B33-151-499	**21U456**	
Repositionable Vinyl Cloth, B-498						
1/4"	1 1/16"	White	2500	B33-90-498	**21U442**	
5/16"	85 ft.	White	Cont.	B33C-312-498	**21U436**	
3/8"	85 ft.	White	Cont.	B33C-375-498	**21U437**	
1/2"	3/4"	White	5000	B33-68-498	**21U439**	
1/2"	1 1/16"	White	2500	B33-87-498	**21U443**	
3/4"	1/4"	White	5000	B33-1-498	**21U435**	
3/4"	15/16"	White	2500	B33-91-498	**21U441**	
1"	1/2"	White	5000	B33-5-498	**21U438**	
1"	3/4"	White	2500	B33-88-498	**21U440**	
PermaSleeve® Heat-Shrink Polyolefin, B-342, Single Sided						
3/8"	2"	White	1000	B33-250-2-342-2	**21U287**	
2"	1/8"	White	1000	B33-125-2-342	**21U284**	
2"	1/4"	White, Yellow	500	B33-250-2-342	**G5857**	
PermaSleeve® Heat-Shrink Polyolefin, B-342, Double Sided						
2"	3/32"	Black, White, Yellow	1000	B33D-94-2-342	**G5860**	
2"	1/8"	Black, White, Yellow	1000	B33D-125-2-342	**G5861**	
2"	2"	Black, White, Yellow	500	B33D-250-2-342	**G5856**	
Raised Profile Polyester, B-593						
1"	2"	Black, Green, Red, Silver, White, Yellow	300	B30EP-173-593	**G8796**	
1"	3"	Black, Green, White, Yellow	340	B30EP-176-593	**G8799**	
1 13/64"	1 13/64"	Black, Green, Red, White, Yellow	180	B30EP-168-593	**G8793**	
1 5/8"	1 1/16"	Black, Green, Red, Silver, White, Yellow	610	B30EP-171-593	**G8790**	
1 49/64"	1 49/64"	Black, Green, Red, Silver, White, Yellow	510	B30EP-172-593	**G8794**	
1 51/64"	1 51/64"	Black, Green, Red, White, Yellow	190	B30EP-169-593	**G8795**	
2 13/32"	2 13/32"	Black, Green, Red, White, Yellow	145	B30EP-170-593	**G8797**	
2 1/2"	3"	Black, Green, White, Yellow	125	B30EP-177-593	**G8800**	
Polypropylene with Permanent Acrylic Adhesive, B-425						
1"	2"	White	1500	B33-17-425	**21U331**	
2"	3"	White	500	B33-19-425	**21U333**	
Matte Metallized Polyester with Permanent Acrylic Adhesive, B-428						
1"	3"	Silver	1500	B33-18-428	**21U359**	
Gloss Metallized Polyester with Permanent Acrylic Adhesive, B-434						
1"	2"	Silver	1500	B33-17-434	**21U366**	
3"	2"	Silver	500	B33-19-434	**21U368**	
Polyester with Aggressive Rubber-Based Adhesive, B-483						
1"	1"	White	5000	B33-5-483	**21U401**	
1"	2"	White	1500	B33-17-483	**21U402**	
1"	3"	White	1500	B33-18-483	**21U403**	
2"	3"	White	500	B33-19-483	**21U404**	
Matte Metallized Polyester with Permanent Rubber-Based Adhesive, B-486						
1/2"	1"	Silver	5000	B33-5-486	**21U405**	
2"	3"	Silver	500	B33-19-486	**21U408**	

** Secondary label included.*



BMP®51
No. 21U176

BMP®51 Label Maker

BRADY

Portable printers feature a Bluetooth®-enabled network card that works with Android®-powered mobile devices and Brady mobile app for wireless printing on the go. Print labels up to 1½"W at a speed of 1" per sec. Built-in cutter and easy-to-load cartridges. Includes USB port. Feature a large graphical display with backlight and on-screen indicators for parts, remaining material, and battery. Also feature keyboard and a number of built-in labeling apps.

Item	Includes	Mfr. Model	Item No.
Portable Label Printer	Mfr. No. BMP51 Printer, USB Cable, Hardcase, Quick Start Guide, AC Adapter/Battery Charger, Li-Ion Battery Pack, Mfr. No. MC-1500-595-WT-BK Label Cartridge	BMP51	**21U176**
Portable Label Printer Kit	AC Adapter/Battery Charger, Hard Case, Li-Ion Battery Pack, M-20-483 Label Cartridge, MC-1500-595-WT-BK Label Cartridge, MC-1500-595-WT-RD Label Cartridge, MC-1500-595-YL-BK Cartridge, MC1500-595-GN-WT Label Cartridge, Quick Start Guide, USB Cable	BMP51-KIT-GI	**21U178**
Portable Label Printer Kit	AC Adapter/Battery Charger, Hard Case, Li-Ion Battery Pack, M-103-427 Label Cartridge, M-187-1-342 Label Cartridge, MC-1500-595-OR-BK Label Cartridge, MC-1500-595-WT-BK Label Cartridge, MC-475-412 Label Cartridge, Quick Start Guide, USB Cable	BMP51-KIT-EL	**21U177**
Portable Label Printer Kit	M-120-492 Label Cartridge, AC Adapter/Battery Charger, Hard Case, Li-Ion Battery Pack, M-103-498 Label Cartridge, M-156-492 Label Cartridge, M-81-488 Label Cartridge, MC-1500-595-WT-BK Label Cartridge, Quick Start Guide, USB Cable	BMP51-KIT-LS	**21U179**
Portable Label Printer Kit	AC Adapter/Battery Charger, Hard Case, MC-1500-595-WT-BK Label Cartridge, Product/Driver CD, Quick Start Guide, USB Cable	BMP51-KIT-AC	**21U174**
Portable Label Printer Kit	AC Adapter/Battery Charger, Hard Case, Li-Ion Battery Pack, M-21-427 Label Cartridge, M-30-422 Label Cartridge, MC-1000-595-YL-BK Label Cartridge, MC-1500-595-WT-BK Label Cartridge, MC-475-412 Label Cartridge, Quick Start Guide, USB Cable	BMP51-KIT-VD	**21U180**



No. 29YJ26

BMP®41 Handheld Label Printer

BRADY

Portable labeler is designed to withstand harsh environments. Features LCD display. Versatile construction gives you the flexibility to print die-cut or continuous labels up to 1" wide on a variety of industry-specific materials.

Item	Includes	Mfr. Model	Item No.
Portable Label Printer	AC Adapter, Battery Pack, Brady CD, Cartridge, Hard Case, Product CD, Quick Start Guide, USB Cable	BMP41	**29YJ26**
Battery Pack	—	BMP41-BATT	**29YJ27**
Magnet Accessory	—	BMP41-MAGNET	**29YJ28**
Hard Case	—	BMP41-HC	**29YJ29**



No. 21U181

Labels for BMP®41, BMP®51, and BMP®53 Label Makers

BRADY

W	Height/ Length	For Use With	▶CHOOSE: Color	Labels per Roll	Mfr. Model	Item No.
Chemical-Resistant Polyester, B-481						
29/32"	3/8", 3/8"	BMP51, 53	Black on White	320	M-195-481	**21U207**
29/32"	3/4", 3/4"	BMP51, 53		320	M-194-481	**21U213**
29/32"	7/8", 29/32"	BMP51, 53		280	M-97-481	**21U237**
Clear Glossy Polyester Wire and Cable Flag, B-432						
1 29/32"	1", 1"	BMP51, 53	Black on Clear	100	M-78-432	**21U190**
FreezerBondz Polyester, B-492						
1/2"	1/2", 1/2"	BMP51, 53	Black on White	240	M-83-492	**21U182**
1/2"	25 ft.	BMP51, 53		Continuous	MC-500-492	**21U185**
1"	1/4", 1/4"	BMP51, 53		360	M-127-482	**21U199**
1 1/4"	1/4", 1/4"	BMP51, 53		200	M-155-492	**21U188**
Indoor/Outdoor Vinyl, B-595						
1/2"	20 ft.	BMP51, 53	Black on Clear	Continuous	MC-500-595	**13L422**
1/2"	20 ft.	BMP51, 53	White on Clear	Continuous	MC-500-595	**21U189**
1/2"	25 ft.	BMP51, 53	Blk on Org, Wht, or Yel; Red on Wht; Wht on Blu, Grn, or Red	Continuous	MC-500-595	**H4303**
1/2"	25 ft.	BMP51, 53	White on Black	Continuous	MC-500-595	**21U194**
3/4"	20 ft.	BMP51, 53	Black on Clear, White on Clear	Continuous	MC-750-595	**H4304**
3/4"	25 ft.	BMP51, 53	Blk on Org, Wht, or Yel; Red on Wht; Wht on Blk, Blu, Grn, or Red	Continuous	MC-750-595	**G5835**
1"	20 ft.	BMP41, 51, 53	Black on Clear	Continuous	MC1-1000-595	**29YJ59**
1"	20 ft.	BMP41, 51, 53	White on Clear	Continuous	MC1-1000-595	**29YJ69**
1"	25 ft.	BMP41, 51, 53	Black on Orange	Continuous	MC1-1000-595	**29YJ55**
1"	25 ft.	BMP41, 51, 53	Black on White	Continuous	MC1-1000-595	**29YJ44**
1"	25 ft.	BMP41, 51, 53	Black on Yellow	Continuous	MC1-1000-595	**29YJ45**
1"	25 ft.	BMP41, 51, 53	Red on White	Continuous	MC1-1000-595	**29YJ66**
1"	25 ft.	BMP41, 51, 53	White on Black	Continuous	MC1-1000-595	**29YJ68**
1"	25 ft.	BMP41, 51, 53	White on Blue	Continuous	MC1-1000-595	**29YJ56**
1"	25 ft.	BMP41, 51, 53	White on Green	Continuous	MC1-1000-595	**29YJ60**
1"	25 ft.	BMP41, 51, 53	White on Red	Continuous	MC1-1000-595	**29YJ58**
1 1/2"	20 ft.	BMP51, 53	Black on Clear	Continuous	MC-1500-595	**13L416**
1 1/2"	20 ft.	BMP51, 53	White on Clear	Continuous	MC-1500-595	**21U197**
1 1/2"	25 ft.	BMP51, 53	Blk on Org, Wht, or Yel; Red on Wht; Wht on Blk, Blu, Grn, or Red	Continuous	MC-1500-595	**H4306**
Metalized Polyester, B-428						
3/4"	1 1/2", 1 1/2"	BMP51, 53	Black on Silver	260	M-30-428	**21U232**
1 19/64"	1/2"	BMP41, 51, 53		239	M-92-428-BB	**29YJ71**
Permanent Nylon Cloth, B-499						
3/8"	3/8"	BMP51, 53	Black on Red	240	M-82-499	**21U224**
3/8"	16 ft.	BMP41, 51, 53	Black on White	Continuous	MC-375-499	**21U211**
1/2"	1/2"	BMP51, 53	Black on Orange, Black on Red	240	M-83-499	**G5834**
1/2"	1/2"	BMP51, 53	Black on White	160	M-152-499	**12X379**
1/2"	16 ft.	BMP41, 51, 53		Continuous	MC-500-499	**21U212**
3/4"	16 ft.	BMP41, 51, 53		Continuous	MC-750-499	**21U219**
1"	16 ft.	BMP51, 53		Continuous	MC-1000-499	**21U220**
2 1/4"	1", 1"	BMP41, 51, 53		90	M-141-499	**29YJ50**
Permanent Polyester, B-422						
3/8"	25 ft.	BMP51, 53	Black on White	Continuous	MC-375-422	**13L420**
31/64"	25 ft.	BMP51, 53		Continuous	MC-475-422	**13L421**
1/2"	1/2", 1/2"	BMP51, 53		280	M-7-422	**12X354**
1/2"	1", 1"	BMP41, 51, 53		480	M-47-422	**29YJ54**
1/2"	25 ft.	BMP51, 53		Continuous	MC-500-422	**13L426**
3/8"	25 ft.	BMP51, 53		Continuous	MC-625-422	**21U191**
1"	1", 1"	BMP41, 51, 53		260	M-49-422	**29YJ70**
1"	25 ft.	BMP41, 51, 53		Continuous	MC1-1000-422	**29YJ57**
1 1/2"	1/2", 1/2"	BMP41, 51, 53		180	M-89-422	**29YJ39**
1 1/2"	3/4", 3/4"	BMP41, 51, 53		180	M-90-422	**29YJ38**
PermaSleeve® Heat-Shrink Polyolefin, B-342						
15/64"	3/4"	BMP41, 51, 53	Black on White	80	M-125-075-342	**29YJ74**
15/64"	1 1/64"	BMP51, 53		80	M-125-1-342	**12X378**
15/64"	7 ft.	BMP51, 53		Cont.	MC-125-342	**13L431**
15/64"	7 ft.	BMP51, 53	Black on Yellow	Cont.	MC-125-342	**14A383**
21/64"	3/4"	BMP41, 51, 53	Black on White	80	M-187-075-342	**29YJ72**
21/64"	1 1/64"	BMP51, 53		80	M-187-1-342	**12X386**
21/64"	7 ft.	BMP51, 53		Cont.	MC-187-342	**14A391**
21/64"	7 ft.	BMP51, 53	Black on Yellow	Cont.	MC-187-342	**14A392**
7/16"	3/4"	BMP41, 51, 53	Black on White	80	M-250-075-342	**29YJ73**
7/16"	1 1/64"	BMP51, 53		80	M-250-1-342	**12X389**
7/16"	7 ft.	BMP51, 53, 41		Cont.	MC-250-342	**14A385**
7/16"	7 ft.	BMP51, 53	Black on Yellow	Cont.	MC-250-342	**14A386**
41/64"	3/4"	BMP41, 51, 53	Black on White	80	M-375-075-342	**29YJ75**
27/32"	1 1/64"	BMP51, 53		80	M-375-1-342	**12X395**
Polypropylene, B-425						
1 3/16"	25/32", 25/32"	BMP51, 53	Black on White	200	MFT-01-425	**21U186**
Reflective Tape, B-584						
1/2"	20 ft.	BMP51, 53	Black on Yellow	Continuous	MC-500-584	**G5836**
1/2"	25 ft.	BMP51, 53	Black on White	Continuous	MC-500-584	**G5836**
3/4"	25 ft.	BMP51, 53	Black on White,	Continuous	MC-750-584	**G5837**
1"	25 ft.	BMP51, 53	Black on Yellow	Continuous	MC-1000-584	**G5838**
1 1/2"	20 ft.	BMP51, 53	Black on White	Continuous	MC-1500-584	**G5839**
1 1/2"	25 ft.	BMP51, 53	Black on Yellow	Continuous	MC-1500-584	**G5839**
Repositionable Vinyl Cloth, B-498						
15/64"	16 ft.	BMP51, 53	Black on White	Continuous	MC-240-498	**14A384**
5/16"	16 ft.	BMP51, 53		Continuous	MC-318-498	**13L428**
3/8"	16 ft.	BMP51, 53		Continuous	MC-375-498	**13L429**
1/2"	1/2"	BMP51, 53		Cont.	M-7-498	**12X396**
1/2"	1", 1"	BMP51, 53		180	M-131-498	**12X423**
3/4"	1/2"	BMP51, 53		220	M-11-498	**12X375**
3/4"	1", 1"	BMP41, 51, 53		180	M-48-498	**29YJ48**
1"	1", 1"	BMP41, 51, 53		160	M-49-498	**29YJ52**
1"	1 1/4", 1 1/4"	BMP51, 53		160	M-103-498	**12X373**
1 1/2"	1", 1"	BMP41, 51, 53		120	M-91-498	**29YJ40**
1 29/32"	1", 1"	BMP41, 51, 53		100	M-128-498	**29YJ53**
Self-Laminating Vinyl, B-427						
3/8"	25 ft.	BMP41, 51, 53	Black on White/Clear	Continuous	MC-1000-427	**21U230**
1/2"	1"	BMP51, 53	Black on White	Cont.	M-11-427	**12X344**
1/2"	25 ft.	BMP51, 53		Continuous	MC-1500-427	**21U181**
3/4"	1"	BMP41, 51, 53		340	M-136-427	**29YJ43**
3/4"	25 ft.	BMP41, 51, 53		Continuous	MC-750-427	**21U229**
1"	1"	BMP41, 51, 53		260	M-49-427	**29YJ42**
1 1/4"	1"	BMP41, 51, 53	Black on White/Clear	200	M-143-427	**29YJ33**
1 1/4"	1 1/2"	BMP51, 53		200	M-115-427	**12X345**
1 1/4"	25 ft.	BMP51, 53		Continuous	MC-1250-427	**21U234**
1 1/2"	1"	BMP41, 51, 53		180	M-91-427	**29YJ32**
1 1/2"	1 1/2"	BMP51, 53		180	M-32-427	**12X364**
1 1/2"	4"	BMP51, 53	Black on White	70	M-33-427	**13L427**
1 1/2"	6"	BMP51, 53		40	M-34-427	**13L406**
2 1/2"	1"	BMP41, 51, 53	Black on White/Clear	110	M-51-427	**29YJ41**
2 1/2"	1 1/2"	BMP51, 53	Black on White	80	M-116-427	**12X358**
4"	1"	BMP41, 51, 53	Black on White/Clear	70	M-53-427	**29YJ49**
Tamper-Evident Polyester, B-351						
1/2"	1", 1/2"	BMP51, 53	Black on White	360	M-17-351	**13L430**
2"	1", 1"	BMP51, 53		160	M-20-351	**21U236**
Ultra-Aggressive Polyester, B-483						
1/2"	1", 1"	BMP41, 51, 53	Black on White	480	M-47-483	**29YJ67**
2"	1/2", 1/2"	BMP51, 53		80	M-61-483	**13L407**

BRADY

BMP® 71 Portable Label Makers

Feature built-in design wizards, storage for over 100,000 label files, and rechargeable battery. Include over 400 label options and over 500 built-in symbols. Print various size labels from 0.25" to 2". Print 4 to 174 pt. text sizes. Feature automatic label formatting and large color display.



No. 5UCU5

Description	Mfr. Model	Item No.
BMP® 71 Label Makers		
Printer with Hard Plastic Case, Single Color Printing	BMP71	**5UCU5**
Printer with Soft Nylon Case, Single Color Printing	BMP71-SC	**5UCU6**
Printer with Quick Charger, Single Color Printing	BMP71-QC	**5UCU7**
Printer with Soft Nylon Case and Quick Charger, Single Color Printing	BMP71-SC-QC	**5UCU8**
Accessories		
Cleaning Kit	M71-CLEAN	**5UCR3**
Label Roll Adapter For Use With HandiMark®, TLS2200® and BMP®61 Tapes	M71-ADAPT-BK	**52AZ37**
Soft Nylon Case, Black	M71-SC	**5UCR9**
Hard Plastic Case, Black	M71-HC	**5UCT9**
Spare Battery Pack, Black	M71-BATT	**5UCU0**
Quick Charger, Black	M71-QC	**5UCU4**
Ribbon		
Acrylic Ribbon, White	M71-R4400-WT	**5UCL2**
Acrylic Ribbon, Choose Color: Blue, Green, Magenta, Red, Yellow	M71-R6900	**D9044**
Resin Ribbon, Black	M71-R6000	**5UCT1**
Ribbon Cartridges		
Wax/Resin Ribbon, Black	M71-R4300	**5EAW1**
Resin Ribbon, Black	M71-R6200	**5EAW3**
Resin Ribbon, Black	M71-R6400	**5WKX6**
Resin Ribbon, Black	M71-R6600	**5WKX7**

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
Repositionable Vinyl Cloth Labels, B-498				
¼"	¾"	White	750	**5YTE5**
¼"	30 ft.	White	Cont.	**5WKD0**
¼"	275 ft.	White	Cont.	**5WLD9**
5/16"	30 ft.	White	Cont.	**5WKD1**
⅜"	1"	White	500	**5YTF9**
⅜"	30 ft.	White	Cont.	**5YTD1**
⅜"	300 ft.	White	Cont.	**5WLD8**
½"	½"	White	500	**5WKC7**
½"	¾"	White	500	**5YRZ8**
½"	¾"	White	5000	**5WLA5**
½"	1½"	White	5000	**5WLD7**
½"	30 ft.	White	Cont.	**5WLE2**
¾"	1"	White	250	**5YRU8**
¾"	1"	White	2500	**5WLD5**
¾"	1½"	White	250	**5YTE7**
1"	½"	White	500	**5YTA2**
1"	1"	White	250	**5YRV0**
1"	1"	White	2500	**5WLD6**
1"	1½"	White	250	**5YTG8**
1"	2½"	White	100	**5YRU9**
1"	30 ft.	White	Cont.	**5WLE0**
1½"	½"	White	500	**5YTG4**
1½"	1½"	White	250	**5WKG7**
1½"	4"	White	100	**5YTE6**
1 29/32"	30 ft.	White	Cont.	**5WLE1**
Permanent Nylon Cloth, B-499				
⅜"	⅜"	White	500	**5YTD9**
⅜"	1"	White	500	**5YTG0**
½"	½"	White	500	**5YTE3**
½"	½"	White	500	**5WKC8**
½"	¾"	White	500	**5YTA0**
½"	¾"	White	5000	**5WLC9**
½"	1½"	White	500	**5YTG5**
½"	30 ft.	White	Cont.	**5WLD2**
¾"	1"	White	250	**5YTA6**
¾"	1½"	White	250	**5YTE1**
29/32"	½"	White	500	**5YTE0**
1"	⅜"	White	500	**5YRU6** #
1"	1"	White	250	**5YTA9**
1"	1½"	White	250	**5YTD8**
1"	2½"	White	100	**5WKG3**
1"	30 ft.	White	Cont.	**5WLD0**
1½"	¼"	White	750	**5WKN0**
1 29/32"	¼"	White	750	**5WKG2**
1 29/32"	1"	White	250	**5YTE2**
1 29/32"	30 ft.	White	Cont.	**5WLD1**
Self-Laminating Wire-Wraps, Vinyl, B-427				
¼"	¾"	White on Translucent	750	**5YTF5**
¼"	1½"	White on Translucent	750	**5WLE8**
½"	¾"	White on Translucent	500	**5YRZ9**
½"	¾"	White on Translucent	5000	**5WLA7**
½"	1"	White on Translucent	500	**5YTA4**
½"	1"	White on Translucent	5000	**5WLE4**
½"	1½"	White on Translucent	500	**5YTC4**
½"	1½"	White on Translucent	5000	**5WLE5**
¾"	1"	White on Translucent	250	**5YTA5**
¾"	1"	White on Translucent	2500	**5WLA8**
¾"	1½"	White on Translucent	250	**5YTC5**
¾"	1½"	Blue on Translucent	250	**5WKJ3**
¾"	1½"	Red on Translucent	250	**5WKJ4**
¾"	1½"	White on Translucent	2500	**5WLC2**
1"	¾"	White on Translucent	250	**5YRU2**
1"	1"	White on Translucent	2500	**5WLA9**
1"	1"	White on Translucent	250	**5YTA8**
1"	1¼"	White on Translucent	250	**5YRU1**
1"	1½"	White on Translucent	2500	**5WLC3**
1"	1½"	White on Translucent	250	**5YTC6**
1"	2½"	White on Translucent	100	**5YTC1**
1"	2½"	Yellow on Translucent	100	**5WKE5**
1"	2½"	White/Translucent	1000	**5WLC0**
1"	3⅜"	White/Translucent	100	**5EAW6**
1"	3⅜"	White/Translucent	1000	**5WLE7**
1"	4"	White on Translucent	100	**5YTC2**
1"	4"	White/Translucent	1000	**5WLC1**
1½"	¾"	White	250	**5WKF7**
1½"	1"	White on Translucent	250	**5YTD5**
1½"	1½"	White on Translucent	250	**5YTC7**
1½"	1½"	White on Translucent	1000	**5WLC4**
1½"	4"	White on Translucent	100	**5YTC8**
1½"	4"	White on Translucent	100	**5YTD2**
1½"	4"	Yellow on Translucent	100	**5WKE7**
1½"	4"	White on Translucent	500	**5WLA6**
1½"	4"	White on Translucent	500	**5WLC5**
1½"	6"	White on Translucent	50	**5YTC9**
1½"	6"	White on Translucent	500	**5WLE6**
1¾"	1½"	White on Translucent	250	**5YTD4**
1 15/16"	3 9/32"	White/Translucent	100	**5WLE9**
2"	1½"	White on Translucent	100	**5YTD3**
2"	1½"	White on Translucent	1000	**5WLE3**
PermaSleeve® Heat Shrink Tubing, Polyolefin, B-342				
1/64"	3/16"	White	100	**5YRY6**
1/64"	3/16"	Yellow	100	**5WKK8**
1/64"	3/16"	White	2500	**5WLD3**
1/64"	13/64"	White	100	**5YRY8**
1/64"	13/64"	Yellow	100	**5WKJ8**
1/64"	13/64"	White	1000	**5WKY4**
1/64"	21/64"	White	100	**5YRZ0**
1/64"	21/64"	Yellow	100	**5WKK9**
1/64"	21/64"	White	1000	**5WKY6**
1/64"	7/16"	White	100	**5YRZ2**
1/64"	7/16"	Yellow	100	**5WKK2**
1/64"	7/16"	White	1000	**5WKY8**
1/64"	41/64"	White	100	**5YRZ4**
1/64"	41/64"	Yellow	100	**5WKK3**
1/64"	41/64"	White	1000	**5WKZ0**
1/64"	27/32"	White	100	**5YRZ6**
1/64"	27/32"	Yellow	100	**5WKK7**
1/64"	27/32"	White	1000	**5WLD4**
1/64"	1 21/32"	White	50	**5YTF3**
1¾"	1 21/32"	White	500	**14A405**
1 49/64"	3/16"	White	100	**5YTF2**
1 49/64"	3/16"	Yellow	100	**5WKJ7**
1 49/64"	13/64"	White	1000	**5WKY3**
1 49/64"	13/64"	White	100	**5YRY7**
1 49/64"	21/64"	White	1000	**5WKY5**
1 49/64"	21/64"	White	100	**5YRY9**
1 49/64"	7/16"	White	100	**5YRZ1**
1 49/64"	7/16"	Yellow	100	**5WKK1**
1 49/64"	7/16"	White	1000	**5WKY7**
1 49/64"	41/64"	White	100	**5YRZ3**
1 49/64"	41/64"	Yellow	100	**5WKL0**
1 49/64"	41/64"	White	1000	**5WKY9**
1 49/64"	27/32"	White	100	**5YRZ5**
1 49/64"	27/32"	Yellow	100	**5WKK4**
1 49/64"	27/32"	White	1000	**5WKZ1**
Adhesive-Backed Raised Panel Labels, Polyester, B-593				
1"	1"	White, Black, Green, Red, Yellow	100	**H4326**
1"	1"	White	50	**5YRX6**
1"	1"	Black	50	**5YRX7**
1"	1"	Green	50	**5YRX8**
1"	1"	Red	50	**5YRX9**
1"	1"	Red, White, Black, Green, Yellow	50	**H4327**
1"	2"	Silver	100	**5WLA2**
1 1/16"	3/64"	White, Black, Green, Red, Yellow	200	**H4322**
1 1/16"	1/2"	Silver	200	**5WLA1**
1½"	1½"	White, Black, Green, Red, Yellow	100	**H4323**
1 51/64"	1 51/64"	White, Black, Green, Red, Yellow	100	**H4325**
1 29/32"	1 29/32"	White, Black, Green, Red, Yellow	100	**H4324**

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
Gloss Polyester Labels, B-423				
¼"	¼"	White	750	**5YTF4**
⅜"	⅜"	White	500	**5YTG6**
13/32"	13/32"	White	500	**5WKG6**
½"	13/64"	White	750	**5WKC6**
½"	9/32"	White	750	**5YTD0**
½"	½"	White	500	**5YTE4**
½"	50 ft.	White	Cont.	**5WKN6**
21/32"	13/64"	White	750	**5YRU7**
¾"	¼"	White	750	**5YRZ7**
¾"	1½"	Green/White	250	**5WKN3** *
29/32"	¼"	White	750	**5YTF7**
1"	3/16"	White	750	**5WKF0**
1"	9/32"	White	750	**5YTF8**
1"	⅜"	White	500	**5YTA1**
1"	½"	White	500	**5YTA3**
1"	½"	White	5000	**5WKN9**
1"	1"	White	250	**5YTA7**
1"	1"	White	2500	**5WLC6**
1⅛"	½"	White w/Black Border	500	**5WKL7**
1¼"	¼"	White	750	**5YTG2**
1½"	⅛"	White	750	**5WKL8**
1½"	½"	White	500	**5YTC3**
1½"	½"	White	5000	**5WKT3**
1½"	1"	White	250	**5WKG4**
1½"	1½"	White	250	**5WKC5**
2"	¼"	White	100	**5WKL4**
2"	1"	White	100	**5YTC0**
2"	1"	White	1000	**5WKP0**
2¾"	1¼"	White	100	**5WKD7**
3"	1"	White	100	**5WKG5**
4"	1 29/32"	White	100	**5WKD8**
Gloss Polyester Labels for Powder-Coated Surfaces, B-483				
½"	2"	White	100	**5WKD5**
½"	50 ft.	White	Cont.	**5WKD6**
1"	⅜"	White	500	**5WKF9**
1"	½"	White	500	**5YRU4**
1"	1"	White	250	**5YTD7**
1"	50 ft.	White	Cont.	**5YRU3**
1⅜"	1"	White	250	**5WKD2**
1½"	½"	White	500	**5WKD4**
1½"	¾"	White	250	**5YTD6**
1½"	1"	White	250	**5WKG0**
1 29/32"	50 ft.	White	Cont.	**5WKD3**
2"	1"	White	100	**5YRU5**
2"	50 ft.	Black/Clear, Blue/Clear, Green/Clear, Orange/Clear, Red/Clear, White/Clear, Yellow/Clear	Cont.	**G5709**
4"	1"	White	100	**5WKG1**
4"	1 29/32"	Red/White	100	**5WKZ2** ‡
4"	1 29/32"	Orange/Black/White	100	**5WKZ3** ‡
Metallized Polyester, B-428				
½"	50 ft.	Silver	Cont.	**5WKN7**
¾"	1½"	Green/Silver	250	**5WKN4**
1"	9/32"	Silver	750	**5WKE1**
1"	½"	Silver	500	**5YTF0**
1½"	½"	Silver	500	**5WKF3**
2"	1"	Silver	100	**5YTF1**
2"	1"	Silver	1000	**5WKP8**
2¾"	1¼"	Silver	100	**5WKH3**
3"	1"	Silver	100	**5WKH4**
4"	1 29/32"	Silver	100	**5WKH5**
Metallic Polyester Labels for Powder-Coated Surfaces, B-486				
1"	½"	Silver	500	**5WKH8**
1½"	½"	Silver	500	**5WKH7**
1½"	¾"	Silver	250	**5WKE3**
2"	1"	Silver	100	**5WKE2**
3"	1 29/32"	Silver	100	**5WKH6**
Flame-Retardant Polyethylene Tag, B-145				
49/64"	1 13/64"	Gray	1000	**5WKZ5**
1 13/64"	¾"	Gray	100	**5WKZ7**
1 13/64"	49/64"	Gray	100	**5WKY1**
1¾"	1"	Gray	100	**5WKY0**
1¾"	1"	Gray	1000	**5WKZ4**
1¾"	1"	Gray	100	**5WKZ6**
Permanent Gloss Polyester, B-422				
⅜"	50 ft.	White	Cont.	**5YTE9**
½"	50 ft.	White	Cont.	**5WKC9**

** "Tested" label. † "Danger" label. ‡ "Warning" label. # Two part vial label, rectangle and ⅜" dia. circle.*

BRADY

BMP® 61 Handheld Labeler and Labels

- Simple user interface and easy material loading
- Creates crisp, clear labels
- Large color touchscreen display

Designed for quick and efficient identification of wires, cables, and components. Rugged and reliable, this label printer features multiple user interfaces, touch screen capabilities, and a variety of ways to connect, manage, and save your data.



No. 52HJ90



No. 4VR42



No. 4VR82



No. 4VT22





Description	Mfr. Model	Item No.
Portable Label Printers		
Includes AC Adapter/Charger, Hardcase, M61-R6010 Ribbon, NiMH Rechargeable Battery, Power Cord, Product CD, Printed Quick Start Guide and Driver CD, PTL-19-423, USB Cord, Utility Strap, Color Touch Screen with LCD Backlit Graphics Display, Supply Remaining Gauge, Auto Shut Off/Power Conserve, US Plug Type, 110 to 240 V, 3 hr. Recharge Time, 4" W x 13" H x 4" D, Arrows, Datacom, Electrical, Fire Safety, First Aid, Home Electrical,Personal Protective Equipment	BMP61	**52HJ91**
Same as No. 52HJ91 but adds WiFi connectivity	BMP61-W	**52HJ90**
Accessories		
Printer Carrying Case	BMP-HC-1	**52HJ92**
Magnet Accessory	BMP-MAGNET-1	**52HJ93**
Battery Cover, BMP61 Printer Series	BMP61-BATCOV	**43XL16**
Cutter, BMP61 Printer Series	BMP61-CUTTER	**43XL17**
Carrying Strap, BMP61 Printer Series	BMP-STRAP-1	**43XL18**
Label Roll Adapter For Use With HandiMark®, TLS2200® and BMP®61 Tapes	M71-ADAPT-BK	**52AZ37**
Ribbon, Black, Smear Resistant, Solvent Resistant, Weather Resistant	M61-R4310	**52HJ94**
Ribbon, Black, Abrasion Resistant, Heat Resistant, Solvent Resistant	M61-R6010	**52HJ95**
Ribbon, Black, Heat Resistant, Smear Resistant, Solvent Resistant, Scratch Resistant	M61-R6210	**52HJ96**
Ribbon, White, Heat Resistant, Solvent Resistant, Scratch Resistant	M61-R4410-WT	**52HJ97**
Ribbon, Blue, Heat Resistant, Solvent Resistant, Scratch Resistant	M61-R4410-BL	**52HK11**
Ribbon, Red, Heat Resistant, Solvent Resistant, Scratch Resistant	M61-R4410-RD	**52HK12**
Ribbon, Black, Solvent Resistant, Heat Resistant, Scratch Resistant	M61-R6410	**52HK13**
Ribbon, Black, Solvent Resistant	M61-R6610	**52HK14**
Ribbon, White, Solvent Resistant	M61-R6710-WT	**52HK15**
Ribbon, White, Scratch Resistant, Smear Resistant, Solvent Resistant	M61-R6810-WT	**52HK16**

Self-Laminating Vinyl Wire Marking Labels, B-427

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
¼"	¾"	White on Translucent	750	**4VR12**
½"	¾"		500	**4VR17**
½"	1"	White	500	**4VR38**
½"	1¼"	White on Translucent	250	**3PYA9**
½"	1½"		500	**4VR82**
¾"	1"		250	**4VR42**
¾"	1½"	Translucent & Blue, Green, Orange, Red, White, or Yellow	250	**H4309**
1"	¾"	White on Translucent	250	**3PXZ6**
1"	1"	Blue on Translucent, Green on Translucent, Orange on Translucent, Red on Translucent, White on Translucent, Yellow on Translucent	250	**H4307**
1"	1¼"	White on Translucent	250	**3PXZ4**
1"	1½"	Blue on Translucent, Green on Translucent, Orange on Translucent, Red on Translucent, White on Translucent, Yellow on Translucent	250	**H4310**
1"	2½"		100	**H4308**
1"	3⅜"	White/Translucent	100	**3PXZ2**
1"	4"	White on Translucent	100	**4VR59**
1½"	¾"	White on Translucent	250	**3LKG5**
1½"	1"		250	**3PYC2**
1½"	1½"		250	**4VT09**
1½"	2½"	White/Translucent	100	**3PYA1**
1½"	4"	Blue on Translucent, Green on Translucent, Orange on Translucent, Red on Translucent, White on Translucent, Yellow on Translucent	100	**H4311**
1½"	4"	White/Translucent	100	**3PXZ8**
1½"	6"	White on Translucent	50	**4VT11**
1¾"	1"	White/Translucent	250	**42X471**
1¾"	1½"	White on Translucent	250	**3PYA7**
1 15/16"	3 3/32"	White/Translucent	100	**42X458**
2"	1½"	White on Translucent	100	**3PYA3**
2⅜"	1"	White/Translucent	100	**3PYA5**

PermaSleeve® Heat-Shrink Polyolefin, B-342

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
1 1/64"	3/16"	White	100	**4VP77**
1 1/64"	3/16"	Yellow	100	**4VP78**
1 1/64"	15/64"	White	100	**4VP85**
1 1/64"	15/64"	Yellow	100	**3TJD3**
1 1/64"	21/64"	White	100	**4VP89**
1 1/64"	21/64"	Yellow	100	**4VP90**
1 1/64"	7/16"	White	100	**4VP93**
1 1/64"	7/16"	Yellow	100	**3TJD7**
1 1/64"	41/64"	White	100	**4VP97**
1 1/64"	41/64"	Yellow	100	**3TJD8**
1 1/64"	27/32"	White	100	**4VR02**
1 1/64"	27/32"	Yellow	100	**3TJE5**
1 1/64"	1 21/32"	White	50	**3TJE2**
1 1/64"	1 21/32"	Yellow	50	**3TJE3**
1 49/64"	3/16"	White	100	**3TJD1**
1 49/64"	3/16"	Yellow	100	**3TJD2**
1 49/64"	15/64"	White	100	**4VP83**
1 49/64"	15/64"	Yellow	100	**3TJD4**
1 49/64"	21/64"	White	100	**4VP87**
1 49/64"	21/64"	Yellow	100	**3TJD5**
1 49/64"	7/16"	White	100	**4VP91**
1 49/64"	7/16"	Yellow	100	**3TJD6**
1 49/64"	41/64"	White	100	**4VP95**
1 49/64"	41/64"	Yellow	100	**4VP96**
1 49/64"	27/32"	White	100	**4VP99**
1 49/64"	27/32"	Yellow	100	**3TJD9**
1 49/64"	1 21/32"	White	50	**3TJE1**
1 49/64"	1 21/32"	Yellow	50	**3TJE4**

BradySleeve™ Heat-Shrink Polyolefin, B-321

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
29/64"	11/32"	White	500	**4VT46**
61/64"	11/32"		500	**30EC14**
61/64"	½"		500	**4VT50**
1 29/32"	11/32"		500	**30EC15**
1 29/32"	½"		500	**4VT54**

Terminal Block Vinyl Cloth Labels, B-498

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
¼"	30 ft.	White	Continuous	**4VT43**
⅜"	30 ft.		Continuous	**4VT45**

Repositionable Vinyl Cloth Labels, B-498

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
¼"	¾"	White	750	**3PYJ6**
⅜"	1"		500	**4VR29**
½"	½"		500	**4VT29**
½"	¾"		500	**4VR16**
½"	30 ft.		Continuous	**3PYJ7**
¾"	1"		250	**3PYJ3**
¾"	1½"		250	**3PYJ9**
1"	9/32"		750	**4VR26**
1"	1"		500	**4VR35**
1"	1"		250	**3PYJ5**
1"	1½"		250	**4VT02**
1"	2½"		100	**3PYJ4**
1½"	½"		500	**4VR79**
1½"	1½"		250	**3PYK1**
1½"	4"		100	**3PYJ8**

Permanent Nylon Cloth, B-499

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
⅜"	⅜"	White	500	**3PYG4**
⅜"	1"		500	**4VR34**
½"	½"		500	**4VT32**
½"	½"		500	**3PYH2**
½"	¾"		500	**4VR18**
½"	1½"		500	**4VR85**
¾"	1"		250	**4VR43**
¾"	1½"		250	**3PYG8**
29/32"	½"		500	**3PYG6**
1"	⅜"		500	**3PYF9**
1"	1"		250	**4VR48**
1"	1½"		250	**3PYG2**
1"	2½"		100	**3PYH4**
1 29/32"	¼"		750	**3PYH3**
1 29/32"	1"		250	**3PYH1**

Raised Panel Labels for 22mm Push Buttons, Polyester, B-593

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
1"	½"	White	100	**H4319**
1 1/16"	½"		200	**H4318**
1 13/64"	1½"		100	**H4315**
1 13/64"	1 29/32"	Black, Green, Red, White, Yellow	100	**H4316**
1 51/64"	1 51/64"		100	**H4317**
2"	½"	Black, Green	100	**H4319**
2"	1"	Red, Yellow	100	**H4319**
3"	1"	Black, Green, White, Yellow	50	**H4321**
3"	1"	Red	50	**12K642**
4"	1"	Black, Green, Red, White, Yellow	50	**H4320**

Glossy Polyester Film, B-422

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
⅜"	⅜"	White	750	**3PYL2**
⅜"	50 ft.		Continuous	**3PYK3**
½"	13/64"		750	**3PYK7**
½"	⅜"		500	**3PYK4**
½"	½"		500	**3PYL3**
½"	50 ft.		Continuous	**4VT34**
1"	⅜"		500	**3PYK8**
1"	½"		500	**3PYL4**
1"	1"		250	**4VR45**
1"	50 ft.		Continuous	**3PYK2**
1½"	⅜"		500	**3PYK6**
1½"	½"		500	**4VR80**
1½"	¾"		250	**4VR91**
1 29/32"	50 ft.		Continuous	**3PYK5**
2"	1"		100	**4VR53**
3"	1"		100	**3PYL1**
3"	1 29/32"		100	**3PYK9**
4"	1 29/32"		100	**3PYL5**

Matte Polyester Film, B-423

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
¼"	¼"	White	750	**4VR04**
⅜"	⅜"		500	**4VR86**
13/32"	13/32"		500	**3PYJ2**
½"	13/64"		750	**4VT22**
½"	9/32"		750	**4VT24**
½"	½"		500	**3PYH6**
½"	50 ft.		25	**4VT35**
21/32"	13/64"		750	**3PYH5**
¾"	¼"		750	**4VR10**
29/32"	¼"		750	**4VR20**
1"	3/16"		750	**4VR23**
1"	9/32"		750	**4VR27**
1"	⅜"		500	**4VR30**
1"	½"		500	**4VR36**
1"	1"		250	**4VR46**
1¼"	¼"		750	**4VR62**
1¼"	2¾"		100	**3PYH8**
1½"	⅛"		750	**4VR66**
1½"	¼"		750	**4VR71**
1½"	½"		500	**4VR81**
1½"	1"		250	**3PYH7**
1½"	1½"		250	**4VT08**
2"	¼"		100	**4VR49**
2"	1"		100	**4VR54**
3"	1"		100	**3PYH9**
4"	1 29/32"		100	**3PYJ1**

Permashield Matte Polyester, B-428

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
½"	50 ft.	Silver	Continuous	**4VT36**
1"	9/32"		750	**3PYN3**
1"	½"		500	**3PYN1**
1¼"	2¾"		100	**3PYN4**
1½"	½"		500	**4VR83**
2"	1"		100	**3PYN2**
3"	1"		100	**3PYN5**
3"	1 29/32"		100	**3PYN6**
4"	1 29/32"		100	**3PYN7**

Gloss Polyester, B-483

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
¼"	50 ft.	White	Continuous	**42X320**
½"	2"		100	**3PYE6**
½"	50 ft.		Continuous	**3PYF5**
¾"	4"		50	**3PYD5**
¾"	8"		50	**3PYE8**
1"	⅜"		500	**3PYF1**
1"	½"		500	**3PYC6**
1"	1"		250	**3PYD9**
1"	50 ft.		Continuous	**3PYC4**
1 19/64"	50 ft.		Continuous	**3PYD1**
1⅜"	1"		250	**3PYD3**
1½"	½"		500	**3PYE4**
1½"	¾"		250	**3PYD7**
1½"	1"		250	**3PYF3**
1 29/32"	50 ft.		Continuous	**3PYE2**
2"	1"		100	**3PYC8**
4"	1"		100	**3PYF7**

Vinyl Label Stock, B-439

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
½"	50 ft.	Black, Blue, Green, Orange, Red, White, Yellow	Continuous	**H4312**
1"	50 ft.		Continuous	**H4313**
1 29/32"	50 ft.		Continuous	**H4314**

Permanent Polyester, B-459

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
1½"	¾"	White	250	**30EA79**

Static Dissipative Polyester, B-473

W	Height/ Length	▶CHOOSE: Color	Labels per Roll	Item No.
21/32"	13/64"	White	750	**4VT41**
¾"	¼"		750	**30EA82**

BRADY

Benchtop Thermal Transfer Printers and Labels

High-performance thermal transfer printers automatically detect label material and ribbon, then display user information on the LCD. Template and settings are automatically calculated. 120VAC. LAN and 10/100 Ethernet compatible. Include USB cable and Brady 360® 5-yr. warranty.



No. 22NA72



No. 54YN96

Description	Mfr. Model	Item No.
BBP72 Desktop Label Printer		
300 dpi, 5.0 in./sec.	BBP72-34L	22NA72
Bradyprinter™ i7100 Desktop Label Printer		
300 dpi, 11.8 in./sec.	149050	54YN96
300 dpi, 11.8 in./sec.	149045	54YN97
600 dpi, 5.9 in./sec.	149056	54YN98
600 dpi, 5.9 in./sec.	149053	54YN99

Description	Mfr. Model	Item No.
BBP72, BBP81, BRADY MVP Plus, BRADY X Plus II, BRADYPRINTER i7100, BRADYPRINTER PR Plus, TAGUS		
5 1/64"-Wide, Black	R6011	22NA76
1 37/64"-Wide, Black	R6006	22NA77
2 23/64"-Wide, Black	R6200	22NA79
1 37/64"-Wide, Black	R6206	22NA80
4 21/64"-Wide, Black	R6207	22NA81
3 17/64"-Wide, Black	R4900	22NA82
5 1/8"-Wide, Black	R4904	22NA83
2 23/64"-Wide, Black	R4902	22NA84
4 21/64"-Wide, Black	R4307	22NA87
2 23/64"-Wide, Black	R4302	22NA88
6 55/64"-Wide, Black	R4308	22NA89
2 23/64"-Wide, White	R4400-WT	22NA90
3 17/64"-Wide, White	R4402-WT	22NA91
3 17/64"-Wide, Black	R6102	30DA21
4 21/64"-Wide, Black	R6107	30DA22
5 1/8"-Wide, Black	R6104	30DA24
3 17/64"-Wide, Black	R6202	30DA38
2 23/64"-Wide, Black	R6400	30DA39
4 21/64"-Wide, White	R4407-WT	30DA51
5 1/8"-Wide, Black	R6004	30DA52
5 1/8"-Wide, Black	R4304	30DA59
6 27/32"-Wide, Black	R6008	30DA61
BBP72, BBP81, BRADY MVP Plus, BRADY X Plus II, BRADYPRINTER i7100, BRADYPRINTER PR Plus, TAGUS, WRAPTOR		
1"-Wide, Black	R4311	22NA73
3 17/64"-Wide, Black	R4300	22NA85
1 37/64"-Wide, Black	R4306	22NA92
BBP72, BBP81, BRADYPRINTER i7100, BRADYPRINTER PR Plus		
3 17/64"-Wide, Black	R6602	22NA86
2 23/64"-Wide, Black	R6600	30DA43
BBP81, BRADYPRINTER i7100, Thermal Transfer Printers		
3 17/64"-Wide, Black	R6002	22NA74
4 21/64"-Wide, Black	R6007	22NA75
2 23/64"-Wide, Black	R6000	22NA78
BRADY IP		
3 1/4"-Wide Wax/Resin	IP-R4300	2TYP7
2 21/64"-Wide Wax/Resin	IP-R4302	2TYP8
4 21/64"-Wide Wax/Resin	IP-R4307	2TYP9
2 21/64"-Wide Resin	IP-R6000	2TYR1
3 1/4"-Wide Resin	IP-R6002	2TYR2
1 9/16"-Wide Resin	IP-R6006	2UPJ8
4 21/64"-Wide Resin	IP-R6007	2TYR3
Thermal Transfer Printer		
4 21/64"-Wide, Black	R6009	30DA35

W	H	Color	Labels per Roll	Item No.
Gloss Polyester, B-430				
1/2"	1/2"	Clear	10,000	22MX90
1"	1/2"	Clear	10,000	22MX87
2"	1"	Clear	3000	22MX86
3"	—	Clear	Cont.	22MX85
3"	1"	Clear	3000	22MX89
3"	2"	Clear	1000	22MX88
Gloss Polyester, B-483				
1"	1/2"	White	10,000	22MX94
2"	1"	White	3000	2TYV5
2 3/4"	1 1/4"	White	3000	22MX93
3"	1"	White	3000	2TYV7
3"	2"	White	1000	2TYV6
4"	—	White	Cont.	22MX95
4"	2"	White	1000	22MX91
4"	3"	White	1000	22MX92
Heat-Shrink Polyolefin, B-7642				
3/4"	21/64"	White	20,000	30DK44
63/64"	21/64"	White	5000	30DJ40
63/64"	29/64"	White	2000	30DH90
63/64"	3/8"	White	2000	30DJ08
1 1/2"	29/64"	White	1000	30DH87
1 1/2"	5/8"	White	1000	30DH99
1 1/2"	5/8"	White	2500	30DJ58
1 1/2"	53/64"	White	500	30DH72
Matte Polyester Film, B-423				
1/4"	1/4"	White	10,000	2TYR5
2 1/32"	13/64"	White	10,000	2TYR7
3/4"	1/4"	White	10,000	2TYR6
1"	1/4"	White	10,000	22MX59
1"	1/2"	White	10,000	2TYU3

W	H	Color	Labels per Roll	Item No.
1"	1"	White	10,000	22MX60
1 1/2"	1/2"	White	10,000	2TYT8
1 1/2"	3/4"	White	10,000	22MX57
2"	1/2"	White	3000	2TYU2
2"	1"	White	3000	2TYR9
2 3/4"	2 3/4"	White	3000	22MX61
2 3/4"	2 3/4"	White	1000	22MX64
3"	1"	White	3000	2TYT1
3"	2"	White	1000	2TYT3
4"	2"	White	1000	22MX58
4"	4"	White	1000	22MX63
Metallized Polyester, B-434				
3"	2"	Silver	1000	30DW07
Nomex Tag, B-508				
2"	51/64"	White	2500	30DD31
2 13/64"	13/32"	White	2500	30DD30
Paper, B-402				
4 1/8"	6"	White	1000	30DU92
Permanent Polyester, B-422				
4"	3"	White	1000	30DX40
Permanent Vinyl Nylon Cloth, B-499				
1/2"	3/4"	White	10,000	22MZ74
51/64"	1 7/16"	White	5000	22MZ73
1"	3/8"	White	3000	22MZ77 *
2"	1"	White	3000	22MZ76
3"	13/64"	White	1000	22MZ75
Permashield Matte, B-428				
3/4"	1/4"	Silver	10,000	22MY30
1"	1/2"	Silver	10,000	22MY27
1 1/2"	3/4"	Silver	10,000	22MY26
2"	—	Silver	Cont.	22MY31
2"	1"	Silver	3000	2TYV9
2"	1"	Silver	2000	22MY29
2 3/4"	1 1/4"	Silver	3000	22MY28
3"	—	Silver	Cont.	2TYW3
3"	2"	Silver	1000	2TYW1
PermaSleeve® Heat-Shrink Polyolefin, B-342, Double Sided				
31/64"	15/64"	White	2500	30DG64
31/64"	11/32"	White	2500	30DG69
31/64"	7/16"	White	2500	30DG76
43/64"	11/32"	White	2500	30DG70
1"	15/64"	White	5000	30DG63
1"	11/32"	White	5000	30DG67
1"	7/16"	Yellow	2500	30DG71
1"	7/16"	White	5000	30DG72
1"	21/32"	White	1000	30DG54
2"	3/16"	White	2500	22MY55
2"	3/16"	Yellow	2500	22MY56
2"	15/64"	White	2500	2TYP6
2"	15/64"	Yellow	2500	22MY57
2"	15/64"	White	500	30DF91
2"	21/64"	White	2500	2TYP4
2"	21/64"	Yellow	2500	22MY58
2"	11/32"	White	500	30DG14
2"	7/16"	White	2500	2TYP5
2"	7/16"	Yellow	2500	22MY59
2"	7/16"	Yellow	500	30DG41
2"	7/16"	White	500	30DG43
2"	7/16"	Red	500	30DG44
2"	7/16"	Black	500	30DG46
2"	41/64"	White	1000	22MY60
2"	41/64"	Yellow	1000	22MY61
2"	21/32"	Yellow	250	30DG04
2"	21/32"	White	250	30DG06
2"	21/32"	Black	250	30DG11
2"	27/32"	White	500	22MY62
2"	27/32"	Yellow	500	22MY63
2"	27/32"	Black	250	30DG28
2"	1 1/4"	White	250	22MY64
2"	1 1/4"	Yellow	250	22MY65
2"	1 21/32"	White	250	22MY66
2"	1 21/32"	Yellow	250	22MY67
2"	2 7/16"	White	250	22MY68
2"	2 7/16"	Yellow	250	22MY69
PermaSleeve® Heat-Shrink Polyolefin, B-342, Single Sided				
31/64"	15/64"	White	500	30DM61
31/64"	15/64"	White	2500	30DR05
31/64"	11/32"	White	500	30DN81
31/64"	11/32"	White	2500	30DR16
31/64"	7/16"	White	500	30DP52
31/64"	7/16"	White	2500	30DR27
1/2"	11/32"	White	2500	30DR14
43/64"	15/64"	White	2500	30DR04
43/64"	11/32"	White	2500	30DR15
3/4"	15/64"	White	2500	30DP89
3/4"	11/32"	White	500	30DN08
3/4"	11/32"	White	2500	30DR09

W	H	Color	Labels per Roll	Item No.
3/4"	7/16"	White	2500	30DR20
1"	3/16"	White	2500	30DP81
1"	15/64"	White	500	30DM31
1"	15/64"	White	5000	30DP95
1"	11/32"	White	500	30DN51
1"	11/32"	White	5000	30DR12
1"	7/16"	White	5000	30DR23
1"	21/32"	White	1000	30DP83
1"	27/32"	White	500	30DP67
1 1/2"	3/16"	White	2500	22MY70
1 1/2"	15/64"	White	2500	22MY71
1 1/2"	15/64"	White	500	30DM06
1 1/2"	15/64"	Red	2500	30DP88
1 1/2"	21/64"	White	2500	22MY72
1 1/2"	11/32"	White	500	30DN07
1 1/2"	7/16"	White	2500	22MY73
1 1/2"	7/16"	Yellow	2500	22MY74
1 1/2"	7/16"	White	500	30DP10
1 1/2"	41/64"	White	1000	22MY75
1 1/2"	27/32"	White	500	22MY76
2"	3/16"	White	2500	22MY40
2"	3/16"	Yellow	2500	22MY41
2"	3/16"	White	500	30DL61
2"	15/64"	White	2500	2TYP3
2"	15/64"	Yellow	2500	22MY42
2"	15/64"	White	500	30DM30
2"	21/64"	White	2500	2TYP1
2"	21/64"	Yellow	2500	22MY43
2"	11/32"	White	500	30DN50
2"	7/16"	White	2500	2TYP2
2"	7/16"	Yellow	2500	22MY44
2"	7/16"	White	500	30DP39
2"	41/64"	White	1000	22MY45
2"	41/64"	Yellow	1000	22MY46
2"	21/32"	White	250	30DM80
2"	27/32"	White	500	22MY47
2"	27/32"	Yellow	500	22MY48
2"	27/32"	White	250	30DN72
2"	1 1/4"	White	250	22MY49
2"	1 1/4"	Yellow	250	22MY50
2"	1 21/32"	White	250	22MY51
2"	1 21/32"	Yellow	250	22MY52
2"	1 21/32"	White	100	30DM11
2"	2 7/16"	White	250	22MY53
2"	2 7/16"	Yellow	250	22MY54
Raised Panel Labels, B-593				
1 1/16"	31/64"	White	500	2UPJ9
1 1/16"	31/64"	Black	500	2UPK5
1 13/64"	1 1/2"	White	500	2RGY6
1 13/64"	1 29/32"	White	500	2TYU9
1 49/64"	19/32"	White	500	2UPK6
1 49/64"	19/32"	Black	500	2UPL2
1 51/64"	1 51/64"	White	500	2TYV1
2"	1"	White	500	2UPL3
2"	1"	Black	500	2UPL8
2 13/32"	2 13/32"	White	500	2TYV2
3"	1"	White	500	2TYV3
3"	1"	Black	500	2UPP3
3"	2 1/2"	White	250	2UPP4
3"	3 1/2"	White	500	2TYV4
4"	1"	White	500	2UPL9
4"	1"	Black	500	2UPN5
Repositionable Vinyl Cloth Labels, B-498				
1/4"	1 7/16"	White	5000	22MY12
3/8"	—	White	Cont.	22MY10
1/2"	3/4"	White	10,000	22MY08
1/2"	3/4"	White	5000	22MY13
1/2"	1 7/16"	White	5000	22MY11
3/4"	1/4"	White	10,000	22MY07
3/4"	15/16"	White	5000	22MY09
51/64"	1 7/16"	White	5000	22MY06
2"	2"	White	3000	22MY14
Ultra Aggressive Metallized Polyester, B-486				
1"	1/2"	Silver	10,000	30DX88
3"	1"	Light Gray	3000	2TYW5
Vinyl Self-Laminating Wire Markers, B-427				
1/2"	3/4"	White on Translucent	5000	22MZ67
1/2"	1 7/16"	White on Translucent	10,000	2TYU7
3/4"	1 3/4"	White on Translucent	10,000	22MZ66
51/64"	1 7/16"	White on Translucent	10,000	2TYU5
1"	1 7/16"	White on Translucent	10,000	2TYU8
1"	2 1/4"	White on Translucent	3000	22MZ62
1"	2 1/4"	White on Translucent	3000	2TYU6
1"	3 3/4"	White on Translucent	3000	2TYR4
1 1/2"	1"	White on Translucent	5000	22MZ50
1 29/32"	3 3/16"	White on Translucent	1500	22MZ64
2"	3 3/4"	White on Translucent	1000	22MZ57

** With 3/8"-dia. vial top label.*



No. 403T28



No. 30RR07

brother

P-Touch EDGE Portable Label Printers

- LCD display
- 180 dpi

These portable and easy-to-use units create labels that help empower you in a variety of industries to quickly create serialized and barcoded labels that leave a lasting impression. They feature QWERTY-style keyboard and LCD screen.

Color Printing Capability	Font Range	Max. Tape Width	Max. Print Speed	Includes	Mfr. Model	Item No.
Portable Label Printers						
Single Color	4 to 72	0.47"	0.8 in./sec.	Carrying Case and Safety Wrist Strap	PTE110	**403T28**
Single Color	6 to 48	7/10"	0.8 in./sec.	Li-ion Rechargeable Battery Pack, Hard Case, and A/C Adapter	PT E300	**22KD90**
Single Color	6 to 48	9/10"	1.2 in./sec.	12mm x 8m Black on White Flexible ID Laminated TZe Tape, Li-Ion Rechargeable Battery, Power Adapter, Custom Carrying Case, Adjustable Wrist Strap, User Manual, USB Cable, CD	PT E500	**30RR07**

W	Color	Mfr. Model	Item No.	Pkg. Qty.
Extra-Strength Adhesive Tapes, Designed For Textured and Hard to Stick Surfaces				
Polyester				
23/64"	Black/Clear	HGeS1215PK	**23M313**	5
15/32"	Black/Clear	HGeS1315PK	**23M314**	5
45/64"	Black/Clear	HGeS1415PK	**23M315**	5
15/16"	Black/Clear	HGeS1515PK	**23M316**	5
15/64"	Black/White	HGeS2115PK	**23M317**	5
23/64"	Black/White	HGeS2215PK	**23M318**	5
23/64"	Black/Yellow	HGeS6215PK	**23M323**	5
45/64"	Black/Matte Silver	HGeS9415PK	**23M328**	5
15/16"	Black/Matte Silver	HGeS9515PK	**23M329**	5
PET				
23/64"	Black/Clear	TZeS121	**13C523**	1
15/32"	White/Clear	TZeS135	**13C525**	1
45/64"	Black/Clear	TZeS141	**13C526**	1
15/16"	Black/Clear	TZeS151	**13C527**	1
15/64"	Black/White	TZeS211	**13C528**	1
45/64"	Black/Silver	TZeS941	**13C542**	1
15/16"	Black/Silver	TZeS951	**13C543**	1
Flexible ID Tapes, Designed For Wrapping Around and Flag Labels				
Polyester				
23/64"	Black/White	TZeFX221	**403T29**	1
61/64"	Black/Red	TZeFX451	**403T30**	1
61/64"	Black/Blue	TZeFX551	**403T31**	1
61/64"	Black/Green	TZeFX751	**403T32**	1



RHINO™ 4200



RHINO™ 5200



DYMO XTL 300



DYMO XTL 500 Kit

Electronic Printers

- 1-touch hot keys save setup time
- Large backlit display
- Nonsmearing thermal transfer

Printers feature impact-resistant rubber bumpers for protection.

RHINO™ 4200

Features computer-style QWERTY keyboard. Hot keys option provides shortcuts for creating and formatting wire/cable wraps, flags, code 39 and 128 bar codes, fixed length, general, and breaker labels. Prints ¼", ⅜", ½", and ¾" wide labels in a variety of materials and colors. Favorites key gives you access to most frequently used labels, symbols, and terms. Kit adds AC adapter, lithium-ion battery, and case.

RHINO™ 5200

Handheld printer includes one ¾" black-on-white flexible nylon label cartridge. Runs on 6 AA batteries or lithium-ion battery (not included). Kit adds lithium ion rechargeable battery, one ⅜" black-on-white vinyl label cartridge, AC adapter, and carrying case.

DYMO Rhino Industrial Labeling Tools

DYMO XTL

Prints durable labels including continuous length tape, laminated wire/cable wraps, heat-shrink tubes, and presized labels. Preloaded templates ensure perfect formatting to save time. Lifelike onscreen print preview and color display shows exactly how labels will look when applied to cables, pipes, panels, and more. Built-in label applications make getting started from home screen easy, and touchscreen helps make label creation easier and faster. Designed with high-impact plastic. Thermal transfer. 300 dpi. Nos. 21HN24 (13 fonts) and 21HN26 (15 fonts) include quick reference guide and tape cartridge. Kits (13 fonts) include a carrying case.

Description	Tape Width	Mfr. Model	Item No.
RHINO™ 4200	¼, ⅜, ½, ¾"	Rhino 4200	**13A913**
RHINO™ 4200 Kit	¼, ⅜, ½, ¾"	Rhino 4200	**22F238**
RHINO™ 5200	¼, ⅜, ½, ¾"	Rhino 5200	**4GPR7**
RHINO™ 5200 Kit	¼, ⅜, ½, ¾"	Rhino 5200	**4GPR8**
Dymo XTL 300	1"	1868813	**21HN24**
Dymo XTL 300 Kit	1"	1868814	**21HN25**
Dymo XTL 500 Kit	2"	1868815	**21HN26**
RHINO™ AC Adapter	—	15519	**5AU10**

DYMO Rhino Industrial Labeling Tools

Labels for RHINO™ Printers



- Nonsmearing thermal transfer
- Industrial-strength adhesive
- Easy-to-peel, split-back design

Labels resist chemicals, solvents, grease, heat, and moisture. Can be used in harsh environments.

L	Color	Width ¼" Item No.	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.
For Rhino 4200, 5200, 6000 Series Printers						
Vinyl - General Purpose, Outdoor, For Flat, Curved Smooth Surfaces						
18 ft.	Black/White	—	**1VMK1**	**1VMK2**	**1VMK3**	**13A930**
18 ft.	White/Black	—	**13A914**	**13A921**	—	—
18 ft.	Black/Yellow	—	—	**1VMK5**	**1VMK6**	**13A929**
18 ft.	Black/Orange	—	—	**1VMK8**	**1VMK9**	**13A933**
18 ft.	White/Red	—	—	**13A915**	**13A922**	**13A931**
18 ft.	White/Purple	—	—	**13A916**	**13A923**	**13A932**
18 ft.	White/Green	—	—	**13A917**	**13A924**	**13A934**
18 ft.	Black/Gray	—	—	**13A918**	—	**13A935**
18 ft.	White/Brown	—	—	**13A919**	**13A926**	**13A936**
18 ft.	White/Blue	—	—	**13A920**	**13A927**	**13A937**
18 ft.	White on Black	—	—	—	**13A928**	**13A938**
Self-Laminating Vinyl - For Wire and Cable						
18 ft.	Black/White	—	—	—	—	**1TLR5**
Polyolefin Heat Shrink Tubing - For Wire and Cable						
60"	Black on White	**5AU15**	**5AU16**	**5AU17**	**5AU18**	—
60"	Black on Yellow	**5AU19**	**5AU20**	**5AU21**	**5AU22**	—
Permanent Polyester - For Flat Smooth Surfaces						
18 ft.	Black/White	**13A939**	**5AU36**	**6AA25**	**6AA26**	**1TLR4**
18 ft.	Black/Metallic Silver	**13A940**	**5AU35**	**6AA23**	**6AA24**	**13A942**
18 ft.	Black/Clear	**13A941**	**1TLR6**	**1TLR7**	**1TLR8**	**13A943**
Flexible Nylon - For Wire and Cable, All Surfaces						
11 ft. 6"	Black/Yellow	—	—	**5AU13**	**5AU14**	—
11½ ft.	Black/White	—	—	—	—	**1TLR2**
11½ ft.	Black/Yellow	—	—	—	—	**1TLR3**
11 ft. 6"	Black/White	—	—	**5AU11**	**5AU12**	—

L	Color	Width ½" Item No.	¾" Item No.	1" Item No.	1½" Item No.	2" Item No.
Vinyl, For Rhino XTL Series Printers						
23 ft.	Black/Clear	**40W064**	**40W065**	—	**40W067**	**40W068**
23 ft.	Red/Clear	**40W069**	**40W070**	**40W071**	**40W072**	**40W073**
23 ft.	Black/White	**40W074**	**40W075**	**40W076**	**40W077**	**40W078**
23 ft.	Red/White	**40W079**	**40W080**	**40W081**	**40W082**	**40W083**
23 ft.	White/Red	**40W084**	**40W085**	**40W086**	**40W087**	**40W088**
23 ft.	Black/Orange	**40W089**	**40W090**	**40W091**	**40W092**	**40W093**
23 ft.	Black/Yellow	**40W094**	**40W095**	**40W096**	**40W097**	**40W098**
23 ft.	White/Blue	**40W099**	**40W101**	**40W102**	**40W103**	**40W104**
23 ft.	White/Green	**40W105**	**40W106**	**40W107**	**40W108**	**40W109**
23 ft.	White/Brown	**40W110**	**40W111**	**40W112**	**40W113**	**40W114**
23 ft.	White/Purple	**40W115**	**40W116**	**40W117**	**40W118**	**40W119**
23 ft.	White/Black	**40W120**	**40W121**	**40W122**	**40W123**	**40W124**
23 ft.	Black/Gray	**40W125**	**40W126**	**40W127**	**40W128**	**40W129**
24 39/64 ft.	Black/Clear	—	—	**40W066**	—	—



No. 6X851

Embossing Label Maker

DYMO

- Accepts ⅜" or ½" tape widths

Features front scissor cutoff and built-in hole punch. Produces 3/16" high characters with forward and reverse tape control. Designed for indoor or outdoor applications. Stainless steel labels are designed for corrosive applications.

Description	Mfr. Model	Item No.
Manual Labelmaker, Includes (1) Roll of ½" x 16 ft. Aluminum Tape Without Adhesive, (1) 0.188 Character Horizontal Wheel, Hard Carrying Case	Rhino M1011	**6X851**
Aluminum Tape, Nonadhesive, ½" W x 16 ft. L	31000	**3A549**
Aluminum Adhesive Label Roll, Adhesive, ½" W x 12 ft. L	35800	**6X852**
304 Stainless Steel Label Roll, Nonadhesive, ½" W x 21 ft. L	32500	**3A550**

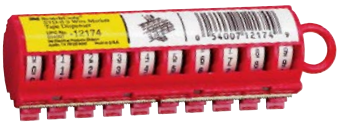


EPSON
EXCEED YOUR VISION

LabelWorks PX Wire Labeling System

Features a high-speed, 360 dpi print output that creates highly visible and detailed color labels, bar codes, and wire identification faster and with better detail than other printer models. A 4mm standard lead margin, and the ability to reduce tape waste down to 1mm is an industry leading cost saving feature. Labels help provide reliable adhesive and true color printing.

W	Color	Item No.
Portable Label Printer		
LABELWORKS PX		**45VZ82**
Heat Shrink Tube, Polyolefin		
1/8 in	Black on Yellow	**48GE85**
	Black on White	**48GE81**
3/16 in	Black on Green	**48GE82**
	Black on Blue	**48GE83**
	White on Black	**48GE84**
	Black on Red	**48GE86**
	Black on Yellow	**48GE87**
1/4 in	Black on White	**48GE88**
	Black on Yellow	**48GE89**
3/8 in	Black on White	**48GE90**
1/2 in	Black on Yellow	**48GE91**
	Black on White	**48GE92**
	Black on Red	**48GE93**
	White on Black	**48GE94**
9/16 in	Black on White	**48GF02**
	Black on Yellow	**48GE95**
7/8 in	Black on White	**48GE96**
	Black on Yellow	**48GE97**
		48GE98



No. 2A233

3M

Wire Marking Tape Dispenser and Refills

ScotchCode™ STD Dispenser is compact and refillable, with easy cut-off for no waste. Provides fast, convenient access to 10 rolls of wire and cable marking tape. Non-smear polyester with high-tack acrylic adhesive resists solvents, oil, and water to give optimum adherence to insulation surfaces. Operating temp. range: -40°F to 250°F.

Legend	Color	Item No.	Pkg. Qty.
Wire Marker Tape Dispenser			
(Blank)	Red	**2DRP8**	10
Wire Marker Dispenser w/Tape			
0 to 9	White	**2A233**	1
(Blank)	Black, Blue, Brown, Green, Gray, Orange, Red, Violet, White, Yellow	**4DYW9**	1
Wire Marker Tape Refill			
0	Black on White	**4YT53**	1
1	Black on White	**4YT54**	1
2	Black on White	**4YT55**	1
3	Black on White	**4YT56**	1
4	Black on White	**4YT57**	1
5	Black on White	**4YT58**	1
6	Black on White	**4YT59**	1
7	Black on White	**4YT60**	1
8	Black on White	**4YT61**	1
9	Black on White	**4YT62**	1
0 to 9	Red	**4YT52**	10
10 to 19	Black on White	**4YT63**	10
20 to 29	Black on White	**4YT64**	10
30 to 39	Black on White	**4YT65**	10
(Blank)	Black, Blue, Brown, Green, Gray, Orange, Red, Violet, White, Yellow	**4YT66**	10

BRADY

Write-On Self-Laminating Wire and Cable Markers

Convenient-sized books contain white/transparent self-laminating vinyl for use above or below ground. The transparent portion of the label over-wraps to provide a snug-fitting, self-laminating shield that resists oil, water, and solvents.

Markers per Card	Label Width	Label Height	Write-On Area	Item No.
180	0.50"	1.50"	0.50"W x 0.75"H	**3TP22**
120	0.75"	1.75"	0.75"W x 0.50"H	**3TP14**
60	1.00"	3.00"	1.00"W x 0.75"H	**3TP15**
30	1.00"	6.00"	1.00"W x 1.00"H	**3TP16**



No. 3TP15

110 VOLTS	110 VOLTS
110 VOLTS	110 VOLTS

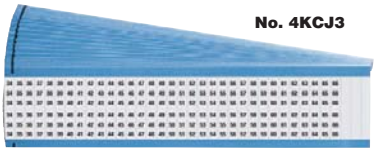
4 Markers Per Card

Legend	1 MARKERS/CARD 9" x 2¼" Item No.	4 MARKERS/CARD 4½" x 1⅛" Item No.	18 MARKERS/CARD 2¼" x ½" Item No.
110 Volts	**6GX08**	**6GX41**	**6GX74**
115 Volts	**6GX09**	**6GX42**	**6GX75**
120 Volts	**6GX10**	**6GX43**	**6GX76**
120/208 Volts	**6GX39**	**6GX72**	**6GX94**
208 Volts	**6GX11**	**6GX44**	**6GX77**
220 Volts	**6GX12**	**6GX45**	**6GX78**
230 Volts	**6GX13**	**6GX46**	**6GX79**
240 Volts	**6GX14**	**6GX47**	**6GX80**
277 Volts	**6GX16**	**6GX49**	—
277/480 Volts	**6GX40**	**6GX73**	**6GX95**
440 Volts	**6GX17**	**6GX50**	**6GX82**
460 Volts	**6GX18**	**6GX51**	**6GX83**
480 Volts	**6GX19**	**6GX52**	**6GX84**
600 Volts	**6GX21**	**6GX54**	—
4160 Volts	**6GX23**	**6GX56**	—
13,200 Volts	**6GX35**	—	—
DC	**6GX33**	**6GX63**	**6GX91**
Single Phase	**6GX28**	**6GX58**	**6GX87**
Three Phase	**6GX29**	**6GX59**	**6GX88**
AC	—	**6GX57**	—
Emergency Service	—	—	**6GX86**

BRADY

Voltage Markers

These highly visible markers quickly identify voltage and power sources. They are easy to apply to conduit, busways, circuit breakers, switches, fuse boxes, and other electrical equipment.



No. 4KCJ3

BRADY

Wire Markers

- 25 cards per pkg.

Vinyl cloth markers attach quickly and firmly to the wire for clear, concise identification. 0.25"W x 1.5"L. Black on white. Brady® Zip-Strip® release card lets you easily remove just the markers you need, and are designed with vinyl B500 material.

Legend	Markers per Card	Item No.	Legend	Markers per Card	Item No.
0	36	**4KCH6**	9	36	**4KCK2**
1	36	**4KCJ1**	1 to 33	33	**4KCH9**
2	36	**4KCJ2**	34 to 66	33	**4KCJ3**
3	36	**4KCJ4**	67 to 99	33	**4KCJ7**
4	36	**4KCJ5**	100 to 124	25	**4KCH7**
5	36	**4KCJ6**	125 to 149	25	**4KCH8**
6	36	**4KCJ8**	A to Z	26	**4KCK3**
7	36	**4KCJ9**	- (Minus)	36	**4KCK4**
8	36	**4KCK1**	+ (Plus)	36	**4KCK5**

BRADY

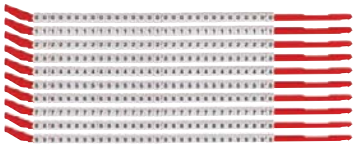
Wire Marker Books

Slim, lightweight, pocket-sized Brady® Porta-Pack® books contain vinyl cloth labels with a large selection of legends available: numbers, letters, special symbols, and NEMA colors. Each marker also includes a terminal marker. 10 pages per book.

Legend	Markers per Card	Item No.
0 to 9	45	**3TP18**
A-Z, 0 to 15, + (Plus), - (Minus), / (Slash)	10	**3TP19**
1 to 45	10	**3TP20**
A-Z, 0 to 90, + (Plus), - (Minus), / (Slash)	(6) 1 to 15, (4) 16 to 90, (2) A to Z,+,-,/,0	**3TP21**
Load Center and Residential Wire Markers	5 Cards Each of 2 Legends	**3TP17**



No. 3TP19



BRADY

Wire Marker Clips

Nylon split-sleeve markers have chevron locking design—they snap onto the wire and won't slip or slide. Black on white. Min. wire size (AWG): 16, 14. Markers are easy to apply with the nylon wand applicator. Numeric packages contain 10 wands with 30 sleeves per wand. Alpha packages contain 13 wands, 1 per letter.

Legend	Item No.
0 to 9	**3TP30**
1	**3TP24**
2	**3TP25**
A to M	**3TP26**
N to Z	**3TP27**



No. 2A225



No. 7DX30

3M POWER 1 FIRST

Vinyl Electrical Tape

Scotch Super 33+™—Premium-grade tape resists weather, abrasion, alkalis, acids, and corrosion. Passes UL's flame retardant test.

Power First® Premium—Conformable tape with high dielectric strength is ideal for electrical insulation on joints, cables, and splices in wires. Resists abrasions, corrosion, alkalis, and is flame retardant. UL Listed and CSA Certified.

Scotch Super 88—Resists cold temperatures, weather, moisture, alkalis, acids, and corrosion. Thicker tapes (greater than 7 mil thick) provide faster build up and better mechanical protection.

Scotch 35—9 fade-resistant colors for phase identification and general color coding.

Scotch 22—Thick design provides increased mechanical strength and abrasion resistance. Suitable for electrical and bus bar insulation and cable-jacket repair.

Power First® Value—Economical and flexible general-purpose tape offers protective jacketing, bundling, and harnessing. Suitable for use no more than 600V and 80°C (176°F).

Tartan 1710—General-purpose tape resists abrasion, moisture, alkalies, acid, and varying weather conditions including sunlight. Suitable for indoor and outdoor applications.

Highland™—Offers a flexible, stretchy, conformable, and commercial-grade vinyl tape. Suitable for protective jacketing, harnessing, and bundling.

Tape Color	Tape Adhesive Strength	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Scotch Super 33+									
Black	60 oz/in	7.00 mil	¾"	66 ft	220°F	600	33+SUPER-3/4X66FT	**2A225**	1
Black	60 oz/in	7.00 mil	¾"	20 ft	220°F	600	33+SUPER-3/4X20FT	**2A226**	10
Black	60 oz/in	7.00 mil	¾"	44 ft	220°F	600	33+SUPER-3/4X44FT	**2FZD6**	100
Black	60 oz/in	7.00 mil	¾"	52 ft	220°F	600	33+SUPER-3/4X52FT	**2FZC9**	100
Black	24 oz/in	7.00 mil	1½"	44 ft	175°F	600	33-1-1/2x44FT	**2FYL6**	100
Power First Premium									
Black	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N735	**19N735**	1
Black	16 oz/in	7.00 mil	¾"	20 ft	220°F	600	19N736	**19N736**	10
White	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N737	**19N737**	1
Red	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N738	**19N738**	1
Blue	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N739	**19N739**	1
Green	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N740	**19N740**	1
Yellow	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N741	**19N741**	1
Orange	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N742	**19N742**	1
Brown	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	19N744	**19N744**	1
Black	16 oz/in	8.50 mil	¾"	66 ft	220°F	600	19N745	**19N745**	1
Blk/Red/Wht	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	7DX33	**7DX33**	1
Blk/Blu/Grn/Org/Red/Wht/Yel	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	7DX31	**7DX31**	1
Blk/Blu/Brn/Grn/Org/Red/Wht/Yel	16 oz/in	7.00 mil	¾"	66 ft	220°F	600	7DX30	**7DX30**	1
Scotch Super 88									
Black	60 oz/in	8.50 mil	¾"	66 ft	220°F	600	88-Super-3/4x66FT	**2A227**	1
Black	60 oz/in	8.50 mil	¾"	108 ft	220°F	600	88-Super-3/4x36YD	**2FZP7**	48
Black	60 oz/in	8.50 mil	2"	108 ft	220°F	600	88-Super-2x36YD	**2FYW1**	12
Scotch 35									
White	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10828	**2A228**	1
Red	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10810	**2A229**	1
Blue	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10836	**2A230**	1
Green	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10851	**2A231**	1
Yellow	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10844	**2A232**	1
Orange	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10869	**3A184**	1
Gray	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	35-GRAY-3/4	**3A185**	1
Brown	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	10885	**3A186**	1
Violet	20 oz/in	7.00 mil	¾"	66 ft	220°F	600	11271	**3A187**	1
White	20 oz/in	7.00 mil	½"	20 ft	220°F	600	10232	**2JKR1**	100
Red	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-RED-1/2X20FT	**2JKW5**	100
Blue	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-BLUE-1/2X20FT	**2JKV2**	100
Green	20 oz/in	7.00 mil	½"	20 ft	220°F	600	10265	**2JKY7**	100
Yellow	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-YELLOW-1/2X20FT	**2FZE3**	100
Orange	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-ORANGE-1/2	**2FZC7**	100
Gray	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-GRAY-1/2X20FT	**2FZG1**	100
Brown	20 oz/in	7.00 mil	½"	20 ft	220°F	600	35-BROWN-1/2X20FT	**2FZD8**	100
Scotch 22									
Black	20 oz/in	10.00 mil	¾"	108 ft	175°F	600	10034	**2DPU7**	48
Power First Value									
Black	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N746	**19N746**	1
Black	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N747	**19N747**	10
Blue	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N748	**19N748**	1
Green	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N749	**19N749**	1
Red	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N750	**19N750**	1
White	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N751	**19N751**	1
Yellow	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	19N752	**19N752**	1
Blk/Red/Wht	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	7DX34	**7DX34**	1
Blk/Blu/Grn/Red/Wht/Yel	16 oz/in	7.00 mil	¾"	60 ft	175°F	600	7DX32	**7DX32**	1
Tartan 1710									
Black	18 oz/in	7.00 mil	¾"	60 ft	175°F	600	1710-3/4X60FT	**2FYV5**	100
Black	18 oz/in	7.00 mil	¾"	108 ft	175°F	600	1710-3/4X36YD	**2JKU3**	100
Highland									
Black	18 oz/in	7.00 mil	¾"	66 ft	175°F	600	HIGHLAND-3/4X66FT	**2FZD2**	100

3M

Rubber Insulating and Splicing Tape

Scotch™ 130C—EPR-based splicing tape is for use as a primary electrical insulation for splicing all solid dielectric cables and for building stress cones on cables.

Scotch 23—Highly conformable splicing tape with high- and low-voltage insulating qualities. Innovative snakeskin liner is easily removed as tape is applied.

Temflex™ 2155—This conformable, self-fusing rubber electrical insulating tape is designed for low-voltage electrical insulating and moisture-sealing applications.

3M™ 2242—General purpose rubber insulating tape designed for splicing, jacketing, and general insulating.

Scotch 70—Designed as a protective overwrap for terminating high-voltage cables, and as primary cable insulation where Class H temperatures are encountered.

Scotch 2510/2520—A natural, rubber-based adhesive and effective insulating layer insulates bus bars, motor leads, and service drop connections when reentry is needed.

Scotch 77—Self-extinguishing tape safeguards cables by acting as a heat shield and flame barrier. Resist water, saltwater, acids, sewage, and ultraviolet light.

No. 2A459



No. 2A460



Tape Color	Tape Backing Material	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Scotch 130C									
Black	Rubber	30.00 mil	¾"	30 ft	265°F	69kV	130C-3/4X30FT	**2A459**	1
Black	Rubber	30.00 mil	1"	30 ft	265°F	69000	130C 1x30	**4DYW4**	1
Black	Rubber	30.00 mil	1½"	30 ft	190°F	69000	130C-1-1/2x30FT	**2FYV9**	12
Black	Rubber	30.00 mil	2"	30 ft	265°F	69000	41754	**4DYW5**	1
Scotch 23									
Black	Polyester	30.00 mil	¾"	30 ft	190°F	69000	23-3/4X30FT	**4YT75**	1
Black	Polyester	30.00 mil	1"	30 ft	190°F	69000	23-1"X30'	**4YT49**	1
Black	Polyester	30.00 mil	1½"	30 ft	190°F	69000	23-1-1/2X30FT	**4YT70**	1
Black	Polyester	30.00 mil	2"	30 ft	190°F	69000	23-2X30FT	**4YT76**	1
Temflex 2155									
Black	Rubber	30.00 mil	1½"	22 ft	175°F	600	2155-1-1/2x22FT	**2DPU3**	45
3M 2242									
Black	Rubber	30.00 mil	¾"	15 ft	190°F	750	2242-3/4X15FT	**2FZN8**	24
Black	Rubber	30.00 mil	1½"	15 ft	190°F	750	2242-1-1/2X15FT	**2FYV7**	12
Scotch 70									
Gray	Polyester	12.00 mil	1"	30 ft	355°F	35000	70	**2A460**	1
Scotch 2510/2520									
Yellow	Cloth	7.00 mil	¾"	60 ft	220°F	800	2510-3/4x60FT	**2FZG3**	20
Yellow	Cloth	7.00 mil	¾"	108 ft	220°F	800	2510-3/4x36YD	**2DPU5**	48
Yellow	Cloth	7.00 mil	1"	108 ft	220°F	800	2510-1x36YD	**2DPV2**	36
Yellow	Cloth	7.00 mil	2"	108 ft	220°F	800	2510-2X36YD	**2FZH4**	16
Yellow	Cloth	8.00 mil	¾"	108 ft	220°F	69000	2520-3/4X36YD	**4YT67**	1
Yellow	Cloth	8.00 mil	¾"	60 ft	220°F	800	2520-3/4x60FT	**2FZP3**	20
Yellow	Cloth	8.00 mil	1"	108 ft	220°F	69000	2520-1X36YD	**4YT68**	1
Yellow	Cloth	8.00 mil	2"	108 ft	220°F	800	2520-2X36YD	**2FZH6**	16
Scotch 77									
Black	—	30.00 mil	1½"	20 ft	80°F	10000	77BLACK-1-1/2X20FT	**1GAA4**	1
Gray	Intumescent Elastomer	30.00 mil	1½"	20 ft	80°F	600	77WHITE-1-1/2X20FT	**5ZNH1**	1

Sealing and Insulating Mastic Tape

3M

Scotch 2200—Self-fusing, rubber-based insulating compounds laminated to a flexible, all-weather grade vinyl (PVC) backing. Insulate, moisture seal, and pad connectors.

Scotch Vinyl Mastic—Seals out moisture and protects against corrosion without the need for heating tools.

Scotch 2228/2229—Conforms to irregular surfaces to insulate and seal in indoor and outdoor bus bar and splicing applications. High quality mastic laminated to rubber tape insulates, pads and seals cables and accessories. Features self-healing characteristics. Comes with an easy-release liner.

Scotch 6149—Protects against moisture. Designed with tough vinyl backing. Insulates moisture-seal and pad connections up to 600V.

Scotch Insulation Putty—Self-fusing putty in tape form. Smooths over irregular shapes and pads sharp edges.

Scotch 2234—Designed with a tough, abrasion- and chemical-resistant backing laminated to a moisture sealing mastic for jacket repair on inividual cable.


No. 4YT78


No. 4YT87

Tape Color	Tape Backing Material	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Scotch 2200									
Black	Vinyl	125.00 mil	3¼"	4 ½ in	175°F	600	2200-3-1/4X4-1/2IN	**5ZNH0**	10
Black	Vinyl	125.00 mil	6½"	4 ½ in	175°F	600	2200-6-1/2X4-1/2IN	**4YT78**	1
Scotch Vinyl Mastic									
Black	Vinyl	7.00 mil	1½"	20 ft	100°F	600	80050045014	**2FYU9**	1
Black	Vinyl	7.00 mil	4"	10 ft	100°F	600	80050045022	**2FYV2**	1
Black	Vinyl	7.00 mil	22"	10 ft	100°F	600	80050045048	**2DTP3**	1
Scotch 2228/2229									
Black	Rubber	65.00 mil	1"	10 ft	190°F	35000	2228-1X10FT	**4YT87**	1
Black	Rubber	65.00 mil	2"	10 ft	175°F	1000	2228-2x10FT	**2DTP1**	10
Black	Vinyl	125.00 mil	1"	10 ft	175°F	1000	2229-1X10FT	**4YT86**	1
Black	Vinyl	125.00 mil	2½"	3 ¾ in	175°F	1000	2229-P-2-1/2X3-3/4IN	**2DPT9**	40
Black	Vinyl	125.00 mil	3¾"	6 ½ in	175°F	1000	2229-P-3-3/4X6-1/2IN	**2DPU2**	40
Black	Rubber	125.00 mil	3¾"	10 ft	175°F	1000	2229-3-3/4X10FT	**2JLH6**	8
Scotch 6149									
Black	Vinyl	45.00 mil	2½"	2 ½ in	175°F	600	06149-2-1/2X2-1/2IN	**2JLL3**	250
Scotch Insulation Putty									
Black	—	125.00 mil	1½"	5 ft	175°F	600	SCOTCHFIL	**2FYV8**	12
Scotch 2234									
Black	Rubber	60.00 mil	2"	6 ft	190°F	400	2234-2X6FT	**4DYW8**	1

Polyimide Tape

3M

Designed for high-temperature applications. Suitable for coils and harnesses.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Amber	Silicone	1.00 mil	¾"	108 ft	355°F	7500	92, ¾ in x 36 yd	**2JNU8**	12
Amber	Silicone	1.00 mil	1"	108 ft	355°F	7000	92, 1 in x 36 yd	**2DVD4**	9
Amber	Acrylic	3.00 mil	1"	108 ft	310°F	7000	1205-1"X36YD	**2DVE2**	9


No. 2DVD4

Scotch 40 Polyester Electronic Tape

3M

Unprinted, general-purpose utility tape features an antistatic conductive polymer adhesive. For use in electronic applications where antistatic properties are required.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Clear	Acrylic	2.20 mil	½"	216 ft	265°F	20	40½"X72yd	**2JPP7**	18
Clear	Acrylic	2.20 mil	1"	216 ft	265°F	20	40-1"X72YD	**2DVD7**	9
Clear	Acrylic	2.20 mil	¾"	216 ft	265°F	20	40PR-3/4"X72YD	**3XJZ8**	1
Clear	Acrylic	2.20 mil	½"	216 ft	265°F	20	40PR 1/2X72	**2JPN8**	18
Clear	Acrylic	2.20 mil	1"	216 ft	265°F	20	40PR 1X72	**2DVE3**	9
Clear	Rubber	5.50 mil	¾"	270 ft	265°F	5500	44-TAN-3/4"X90YD	**2GEC3**	48
Clear	Rubber	5.50 mil	½"	270 ft	265°F	5500	44-TAN-1/2"X90YD	**2GCY4**	72
Clear	Rubber	7.00 mil	½"	180 ft	265°F	5500	46, ½ in x 60 yd	**2GCU8**	72


No. 2JPP7


No. 2GCU8

Scotchrap 50 and 51 Tape

3M

Polyvinyl chloride-based tapes are designed with special high-tack adhesives formulated to resist corrosion of metal piping systems above and below ground, fittings, and joints on all mil-coated pipe and electrical conduit systems.

Tape Color	Tape Backing Material	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Black	Vinyl	10.00 mil	1"	100 ft	175°F	12000	50-UNPRINTED-1X100FT	**2FYV1**	10
Black	Vinyl	10.00 mil	2"	100 ft	175°F	12000	50-UNPRINTED-2X100FT	**4DYX2**	1
Black/White	Vinyl	10.00 mil	2"	100 ft	175°F	12000	50-PRINTED-2x100FT	**2FZL5**	24
Black	Vinyl	10.00 mil	2"	100 ft	175°F	12000	50-UNPRINTED-2X100FT	**2FZL7**	24
Black	Vinyl	10.00 mil	3"	100 ft	175°F	12000	50-UNPRINTED-3x100FT	**2FZJ3**	16
Black	Vinyl	10.00 mil	4"	100 ft	175°F	12000	10646	**2FYY1**	12
Black	Vinyl	10.00 mil	6"	100 ft	175°F	12000	50-UNPRINTED-6x100FT	**2JLJ5**	8
Black/White	Vinyl	20.00 mil	2"	100 ft	175°F	2000	51-PRINTED-2X100FT	**2FZG9**	12
Black	Vinyl	20.00 mil	2"	100 ft	175°F	2000	51-UNPRINTED-2x100FT	**2FZH2**	12
Black/White	Vinyl	20.00 mil	4"	100 ft	175°F	2000	51-PRINTED-4X100FT	**2DTF4**	4
Black	Vinyl	20.00 mil	4"	100 ft	175°F	2000	51-UNPRINTED-4x100FT	**2DTF2**	4
Black	Vinyl	20.00 mil	6"	100 ft	175°F	2000	51-UNPRINTED-6x100FT	**2DTF6**	4


No. 4DYX2

Scotch 60 PTFE Tape

3M

Suitable for use on high temperature coils, capacitors, and wire harnesses.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Clear	Silicone	2.00 mil	1"	108 ft	355°F	9500	60-1"X36YD	**2GEH6**	9
Clear	Silicone	5.00 mil	½"	108 ft	355°F	15000	61-GRAY-1/2"X36YD	**2JPP3**	18
Clear	Silicone	2.00 mil	½"	108 ft	355°F	9500	62-GRAY-1/2"X36YD	**2JPT1**	18
Clear	Acrylic	2.00 mil	½"	108 ft	305°F	9500	63½-36	**2JPR2**	18
Clear	Acrylic	2.00 mil	1"	108 ft	305°F	9500	63, 1 in x 36 yd	**2GEG6**	9


No. 2GEH6

Furnace and Oven Control Glass Cloth Tape

3M

Provides heat-stable insulation for hot-spot applications such as motor leads and switches. Thermosetting, pressure-sensitive adhesive performs at Class B temps.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.
Furnace and Oven Control, 600V								
White	Rubber	7.00 mil	½"	66 ft	265°F	600	27½"X66'	**2A456**
White	Rubber	7.00 mil	¾"	66 ft	265°F	600	27¾"X66'	**2A457**




No. 2A456

Thermosetting Silicone Glass Cloth Tape

3M

Reinforces insulation in electrical installations where heavy loads can cause high heat and breakdown.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.
Thermosetting Silicone, 600V								
White	Silicone	7.00 mil	¾"	66 ft	390°F	600	69¾"X66'	**2A458**



No. 2A458

Cotton Friction Tape

3M

Provides economical high-grade abrasion protection for splices, connections, and cable bundling.

Tape Color	Tape Adhesive	Tape Thickness	Tape Width	Tape Length	Max. Tape Performance Temp.	Max. Voltage	Mfr. Model	Item No.	Pkg. Qty.
Cotton Friction, 600V									
Black	Rubber	13.00 mil	¾"	60 ft	175°F	600	1755 ¾"X60'	**4YT85**	1
Black	Rubber	13.00 mil	¾"	82 ½ ft	175°F	600	1755-3/4	**2GDF2**	60
Black	Rubber	13.00 mil	1½"	82 ½ ft	175°F	600	1755-1-1/2 x 82½ ft	**2JMU6**	30



No. 4YT85



No. 4WNJ2



No. 4YF48



No. 4RCX4



No. 4WNJ3

3M INSULTAB POWER 1 FIRST Raychem Thomas&Betts

Heat-Shrink Tubing Kits

- 600V

3M™

Versatile assortments provide complete selection of popular sizes and colors of flexible polyolefin tubing. Kits include 7"W x 11"L x 2½"D translucent plastic box. UL Recognized (E-39100).

INSULTAB

Popular sizes of all-purpose, flexible, thin-wall PVC tubing in a sturdy, portable, transparent container. Kit No. 33VG96 is designed to meet the most stringent biocompatible and safety criteria. 100% factory double-tested for superior insulation integrity, reliability and safety. Features 3 types of USP Class VI high performance polymers with unique features for different applications, environments and sterilization options. Meets UL, CSA, and Military specs.

POWER FIRST®

Flexible polyolefin. UL 224.

No. of Pieces	Shrink Tubing Length	Includes	Color	Shrink Ratio	Brand	Mfr. Model	Item No.	
5	Assorted	Mini-Spool Pull-Pak, 100 ft. 1/16", 25 ft. 1/8", 25 ft. 3/16", 25 ft. 1/4", 25 ft. 3/8"	Black	2:1	Insultab	30-PP-105	**4WNJ2**	
42	6 in	(24) 1/2", (12) 3/4", (6) 1"	Black, Red	3:1	3M	EPS300-1/2 TO 1-BLACK&RED-5-42 PC KITS	**4KNE8**	*
74	6 in	(32) 3/16", (20) 1/4", (8) 3/8", (6) 1/2", (4) 3/4", (4) 1", Plastic Storage Case	Black	2:1	Shrink-Kon	HSKIT	**4YF48**	
102	6 in	(30) 3/16", (28) 1/4", (20) 3/8", (14) 1/2", (6) 3/4", (4) 1"	Black	2:1	3M	FP301-3/16 TO 1-BLACK-5-102 PC KITS	**4NU24**	
102	6 in	(30) 3/16", (28) 1/4", (20) 3/8", (14) 1/2", (6) 3/4", (4) 1"	Black	2:1	Power First	4RCX4	**4RCX4**	
133	6 in	(35) 3/32", (28) 1/8", (21) 3/16", (21) 1/4", (14) 3/8", (14) 1/2"	Black, Blue, Clear, Green, Red, White, Yellow	2:1	Power First	4RCX5	**4RCX5**	
160	4 in	(60) 1/16", (35) 3/32", (25) 1/8", (20) 3/16", (10) 1/4", (10) 3/8"	Black	2:1	Raychem	CPGI-RNF-100-ASRT-4N-BLK	**22KY41**	
175	6 in	(35) 3/32", (35) 1/8", (35) 3/16", (35) 1/4", (35) 3/8"	Black	2:1	Insultab	30-PVC-175BK	**4WNJ3**	

**** Adhesive lined.***



SIEVERT®
Swedish design and quality since 1882.

Torch Kit and Heat Guns

Torch Kit No. 23PF37 features a manual ignition which requires a lighter or starter to ignite, adjustable flame, and continuous run lock. Includes 4-ft. hose.

Description	Brand	Mfr. Model	Item No.
13"L Handle with 4-ft. Gas Hose	Sievert	CPGI-FH-2618A-1	**23PF37**

3M

Cold Shrink Connector Insulators

- Fast, simple installation
- Require no heat or tools



No. 4YT82

Efficient insulators protect in-line splices up to 1kV with constant radial pressure that seals out moisture without adhesives or glue. Insulator supported by removable core. Meet ANSI C119.1 requirements.

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Shrink Tubing Length	Mfr. Model	Item No.
6 to 2 AWG	0.560 in	2 in	8443-2	**5ZNJ5**
6 to 4 AWG	0.560 in	6 in	8423-6	**4YT82**
6 to 2 AWG	0.560 in	6 1/2 in	8443-6.5	**5ZNJ6**
8 to 2/0 AWG	0.650 in	2 3/4 in	QI-5/16-220	**5ZNK1**
2 to 1/0 AWG	0.720 in	2 1/2 in	8445-2.5	**5ZNJ7**
2 to 1/0 AWG	0.720 in	7 1/2 in	8445-7.5	**5ZNJ8**
8 to 3/0 AWG	0.750 in	2 1/2 in	QSLV-M(8-2/0)	**4DYY1**
10 to 1/0 AWG	0.820 in	8 in	8424-8	**4YT83**
2 to 1/0 AWG	0.820 in	8 in	8425-8	**4YT84**
1/0 to 3/0 AWG	0.950 in	3 3/16 in	8447-3.2	**5ZNJ9**
1/0 to 3/0 AWG	0.950 in	8 in	8447-8	**5ZNK0**
2/0 AWG to 250 kcmil	1.180 in	9 in	8426-9	**4YT80**
250 to 400 kcmil	1.380 in	12 in	8427-12	**4YT81**
2 AWG to 750 kcmil	1.450 in	4 1/2 in	QI-10/37-270	**5ZNK2**
2 AWG to 750 kcmil	1.600 in	5 1/4 in	QSLV-M(2-500)	**4DYY2**
450 to 800 kcmil	1.940 in	12 in	8428-12	**4YT51**
250 to 1250 kcmil	2.250 in	6 in	QI-18/57-325	**5ZNK3**
1250 to 2000 kcmil	3.690 in	9 in	8430-9	**5ZNJ3**
1250 to 2000 kcmil	3.690 in	18 in	8430-18	**5ZNJ4**



Telephone Splice Kit No. 6HKC4



Coax Splice Kit No. 6HKC8



Coax Splice Kit No. 6HKD1



Street Light Splice No. 6HKD2



Splice Closure No. 6HKD5



H-Frame Closure No. 6HKD6



Inline Splice No. 6HKD8



Tap/Splice Kit No. 6HKD9



Motor Lead Splice No. 6HKE3

Water-Resistant Splice Kits

TE connectivity

- Silicone filled
- Rated for underground use

Wire Range	Voltage Rating	Includes	Mfr. Model	Item No.	Pkg. Qty.
Telephone/Cat 5 Splice Kits and Covers					
RJ45	60	—	CPGI-WWG-1116542-1	**6HKC3**	1
RJ45	60	Connector	CPGI-WWG-1116542-1-K	**6HKC4**	1
RJ45	60	—	CPGI-WWG-1217204-1	**6HKC5**	1
RJ45	60	Connector	CPGI-WWG-1217204-1-K	**6HKC6**	1
Coax Splice Kits and Covers					
RG6/59	60	—	CPGI-WWG-569224-1	**6HKC7**	1
F	60	Connector	CPGI-WWG-569224-1-K	**6HKC8**	1
RJ45	60	—	CPGI-WWG-569661-1	**6HKC9**	1
RG-7/RG-11	60	Connector	CPGI-WWG-569661-1-K	**6HKD0**	1
RJ45	60	—	CPGI-WWG-VST-02/1	**6HKD1**	2
Street Light Splice					
14 to 2/0 AWG	1000V	Connector	CPGI-WWG-GELCPSL2/03HOLE	**6HKD2**	1
Splice Closures					
12 to 4/0 AWG	1000V	—	CPGI-WWG-GELWRP18/4200UL	**6HKD3**	1
12 to 4/0 AWG	1000V	—	CPGI-WWG-GELWRP18/4250UL	**6HKD4**	1
14 to 8 AWG	1000V	Connector	CPGI-WWG-GELWRP-UF250UL	**6HKD5**	1
H-Frame Closures					
6 to 2 AWG	1000V	—	CPGI-WWG-GHFC-1-90	**6HKD6**	1
2 to 2/0 AWG	1000V	—	CPGI-WWG-GHFC-2-90	**6HKD7**	1
Inline Splice					
2 to 4/0 AWG	1000V	Connector	CPGI-WWG-GILS-4/0	**6HKD8**	1
Motor Lead Splices					
16 to 10 AWG	1000V	—	GELCAP-1(B5)	**6HKE1**	1
8 to 2 AWG	1000V	—	GELCAP-2(B5)	**6HKE2**	3
2 to 4/0 AWG	1000V	—	GELCAP-3(B5)	**6HKE3**	3
250 to 500 kcmil	1000V	—	GELCAP-4(B5)	**6HKE4**	3
Tap/Splice Kits					
14 to 2 AWG	1000V	Connector	CPGI-WWG-GTAP-1	**6HKD9**	1
14 to 2/0	1000V	Connector	CPGI-WWG-GTAP-2	**6HKE0**	1

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Color	Brand	Item No.	Pkg. Qty.
Polyolefin, -67° to 275°F, 2:1 Shrink Ratio					
6 in Thin Wall Heat Shrink Tubing					
500 to 800 kcmil	1.5 in	Black	Power First	**4RCW6**	6
28 to 26 AWG	0.093 in	Black	Power First	**4RCV7**	35
24 to 22 AWG	0.125 in	Black	Power First	**4RCV8**	34
20 to 18 AWG	0.187 in	Black	Power First	**4RCV9**	30
20 to 18 AWG	0.187 in	Black	Shrink-Kon	**3KH56**	20
16 to 12 AWG	0.25 in	Black	Power First	**4RCW1**	26
16 to 12 AWG	0.25 in	Black	Shrink-Kon	**3KH57**	20
12 to 8 AWG	0.375 in	Black	Power First	**4RCW2**	24
12 to 8 AWG	0.375 in	Black	Shrink-Kon	**3KH58**	20
6 to 1 AWG	0.5 in	Black	Power First	**4RCW3**	20
6 to 1 AWG	0.5 in	Black	Shrink-Kon	**3KH59**	10
4 to 3/0 AWG	0.75 in	Black	Power First	**4RCW4**	14
4 to 3/0 AWG	0.75 in	Black	Shrink-Kon	**3KH60**	10
4/0 AWG to 500 kcmil	1.0 in	Black	Power First	**4RCW5**	10
4/0 AWG to 500 kcmil	1.0 in	Black	Shrink-Kon	**3KH61**	5
6 in Thin Wall Heat Shrink Tubing Kit					
28 to 26 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCW7**	35
24 to 22 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCW8**	28
24 to 22 AWG	—	BL,B,C,G,R,W,Y	3M	**4NU35** ‡	28
20 to 18 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCW9**	21
16 to 12 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCX1**	21
12 to 8 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCX2**	14
12 to 8 AWG	—	BL,B,C,G,R,W,Y	3M	**4NU38** ‡	14
6 to 1 AWG	—	BL,B,C,G,R,W,Y	Power First	**4RCX3**	14
Very Flexible Polyolefin, -67° to 275°F, 3:1 Shrink Ratio					
4 ft Thin Wall Heat Shrink Tubing					
19 to 10 AWG	0.118 in	Black	3M	**4NKY3**	25
16 to 12 AWG	0.236 in	Black	3M	**4NKY4**	12
12 to 8 AWG	0.354 in	Black	3M	**4NKY5**	12
6 to 1 AWG	0.472 in	Black	3M	**4NKY6**	12
4 to 3/0 AWG	0.709 in	Black	3M	**4NKY7**	12
4/0 AWG to 500 kcmil	0.945 in	Black	3M	**4NKY8**	5
3/0 AWG to 400 kcmil	1.535 in	Black	3M	**4NKY9**	5

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	▶CHOOSE: Color	3 in Item No.	3 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.	25 ft Item No.	25 ft Pkg. Qty.
Raychem, -67° to 275°F, 2:1 Shrink Ratio								
32 to 30 AWG	0.046 in	Black Blue Clear Green Red White Yellow	—	—	**H4859**	25	—	—
30 to 28 AWG	0.063 in		—	—	**H4860**	25	**H4871**	1
28 to 26 AWG	0.093 in		**22KY70** *	5	**H4861**	25	**H4872**	1
16 to 12 AWG	0.125 in		**22KY92** *	5	**H4862**	25	**H4873**	1
20 to 18 AWG	0.187 in		**22KZ16** *	5	**H4863**	25	**H4874**	1
16 to 12 AWG	0.25 in		—	—	**H4864**	25	**H4875**	1
12 to 8 AWG	0.375 in		—	—	**H4865**	25	**H4876**	1
6 to 1 AWG	0.5 in		**22KZ84** *	5	**H4866**	25	**H4877**	1
4 to 3/0 AWG	0.75 in		**22LA08** *	5	**H4867**	25	**H4878**	1
4/0 AWG to 500 kcmil	1.0 in		—	—	**H4868**	10	**H4879**	1
500 to 800 kcmil	1.5 in		—	—	**H4869**	25	**H4880**	1
500 kcmil	2.0 in		—	—	**H4870**	25	**H4881** #	1

** Available in black only. † Not available in white. ‡ Replacements for No. 4NU23 assortment kit. # Not available in green.*


No. H4859


No. H4880

POWER 1 FIRST Thomas&Betts Raychem 3M

Thin-Wall Heat Shrink Tubing

- Flexible, crossed-linked polyolefin tubing
- 600V
- UL 224

Tough tubing provides insulation and protection for electrical wiring. Bendable tubing conforms to irregular shapes. Used to help identify and color-code electrical connections and wire bundles. Offers superior abrasion and solvent resistance. Also, reliable as a lightweight wire harness, jacketing wire bundles, and component packaging. Delivers high-quality electrical, chemical, and physical properties for military and industrial applications.

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Shrink Tubing Length	▶CHOOSE: Color	Item No.
Raychem Bulk Roll Polyolefin, -67° to 275°F, 2:1 Shrink Ratio				
32 to 30 AWG	0.046 in	2,953 ft	Black Blue Clear Green Red White Yellow	**H4890**
30 to 28 AWG	0.063 in	2,953 ft		**H4891**
28 to 26 AWG	0.093 in	1,476 ft		**H4888**
16 to 12 AWG	0.125 in	1,476 ft		**H4889**
20 to 18 AWG	0.187 in	984 ft		**H4887**
16 to 12 AWG	0.25 in	246 ft		**22KZ53** *
16 to 12 AWG	0.25 in	492 ft		**H4886**
12 to 8 AWG	0.375 in	200 ft		**22KZ76** *
12 to 8 AWG	0.375 in	394 ft		**H4885**
6 to 1 AWG	0.5 in	150 ft		**22LA01** *
6 to 1 AWG	0.5 in	295 ft		**H4884** †
4 to 3/0 AWG	0.75 in	246 ft		**H4882**
4/0 AWG to 500 kcmil	1.0 in	246 ft		**H4883**
500 to 800 kcmil	1.5 in	125 ft		**H8178**

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Brand	6" Item No.	6" Pkg. Qty.	4-ft Item No.	4-ft Pkg. Qty.
Thin Wall, -67° to 230°F, 3:1 Shrink Ratio						
20 to 18 AWG	0.187 in	Power First	**4RCU9**	24	—	—
16 to 12 AWG	0.25 in	Power First	**4RCV1**	20	—	—
12 to 8 AWG	0.375 in	Power First	**4RCV2**	16	—	—
6 to 1 AWG	0.5 in	Power First	**4RCV3**	14	—	—
4 to 3/0 AWG	0.75 in	Power First	**4RCV4**	12	—	—
4/0 AWG to 500 kcmil	1.0 in	Power First	**4RCV5**	8	—	—
500 to 800 kcmil	1.5 in	Power First	**4RCV6**	4	—	—
Thin Wall, -67° to 230°F, 2.5:1 Shrink Ratio						
22 to 16 AWG	0.125 in	3M	—	—	**4NKZ1**	25
20 to 18 AWG	0.187 in	3M	—	—	**4NKZ2**	12
16 to 12 AWG	0.25 in	3M	—	—	**4NKZ3**	12
12 to 8 AWG	0.375 in	3M	—	—	**4NKZ4**	12
6 to 1 AWG	0.5 in	3M	—	—	**4NKZ5**	12
4 to 3/0 AWG	0.75 in	3M	—	—	**4NKZ6**	5
4/0 AWG to 500 kcmil	1.0 in	3M	—	—	**4NKZ7**	5
Thin Wall, -67° to 230°F, 2:1 Shrink Ratio						
24 to 22 AWG	0.125 in	Raychem	**23PF27**	25	—	—
20 to 18 AWG	0.187 in	Raychem	—	—	**23PF32**	25
16 to 12 AWG	0.25 in	Raychem	**23PF25**	25	**23PF26**	25
4 to 3/0 AWG	0.375 in	Raychem	**23PF35**	25	**23PF36**	25
6 to 1 AWG	0.5 in	Raychem	**23PF23**	25	**23PF24**	25
4 to 3/0 AWG	0.75 in	Raychem	**23PF33**	25	**23PF34**	25
4/0 AWG to 500 kcmil	1.0 in	Raychem	**23PF29**	25	**23PF30**	25
500 to 800 kcmil	1.5 in	Raychem	—	—	**23PF31**	25
Medium Wall, -67° to 230°F, 3:1 Shrink Ratio						
12 to 6 AWG	0.4 in	Power First	**4RCU4**	6	**4RCT8**	5
8 to 1/0 AWG	0.8 in	Power First	**4RCU5**	6	**4RCT9**	5
2 to 4/0 AWG	1.1 in	Power First	**4RCU6** *	6	**4RCU1**	5
3/0 AWG to 400 kcmil	1.5 in	Power First	**4RCU7** *	6	**4RCU2**	5
250 to 750 kcmil	2.0 in	Power First	**4RCU8** †	3	**4RCU3**	5
Medium Wall, -40° to 230°F, 3:1 Shrink Ratio						
20 to 18 AWG	0.187 in	Raychem	**23PF05**	25	**23PF06**	25
16 to 12 AWG	0.25 in	Raychem	**23PE97**	25	**23PE98**	25
12 to 8 AWG	0.375 in	Raychem	**23PF11**	25	**23PF12**	25
6 to 1 AWG	0.5 in	Raychem	**23PE93**	25	**23PE94**	25
4 to 3/0 AWG	0.75 in	Raychem	**23PF07**	25	**23PF08**	25
4/0 AWG to 500 kcmil	1.0 in	Raychem	**23PF01**	25	**23PF02**	25
Heavy Wall, -67° to 230°F, 3:1 Shrink Ratio						
14 to 10 AWG	0.35 in	Shrink-Kon	**3KH62**	25	**3KH63**	5
8 to 6 AWG	0.51 in	Shrink-Kon	**3KH64**	25	—	—
6 to 2 AWG	0.75 in	Shrink-Kon	—	—	**3KH65**	5
1 to 3/0 AWG	1.1 in	Shrink-Kon	**3KH66** *	10	**3KH67**	5
2/0 AWG to 350 kcmil	1.5 in	Shrink-Kon	**3KH68** †	5	**3KH69**	5
250 to 600 kcmil	2.0 in	Shrink-Kon	**3KH70** ‡	2	**3KH71**	2
Heavy Wall, -40° to 167°F, 4:1 Shrink Ratio						
14 to 6 AWG	0.472 in	Raychem	**23PE50**	50	**23PE49**	1
6 to 4/0 AWG	1.0 in	Raychem	**23PE56**	50	**23PE55**	1
2 AWG to 500 kcmil	1.3 in	Raychem	**23PE60**	50	**23PE59**	1
2/0 AWG to 750 kcmil	1.9 in	Raychem	**23PE64** *	40	**23PE63**	1
250 to 1000 kcmil	2.2 in	Raychem	**23PE67** *	30	**23PE66**	1

** 9" length. † 12" length. ‡ 15" length.*


Black Polyolefin

POWER 1 FIRST Raychem 3M Thomas&Betts

Adhesive-Lined Heat Shrink Tubing

- Black
- Flexible, crossed-linked polyolefin tubing
- 600V
- UL 224

Strong tubing has meltable inner wall of adhesive that helps protect against moisture and water. Flame-retardant jacket helps insulate and protect wires, splices, breakouts, components, and equipment in moisture environments. Pliable tubing can conform to irregular shapes. Offers superior abrasion, fluids, and solvent resistance. Delivers high-quality electrical, chemical, and physical properties. Also, reliable as a lightweight wire harness, jacketing wire bundles, and component packaging.



Heavy-Wall Heat Shrink

- 3:1 shrink ratio
- 600V
- -67° to 230°F

Flame-retardant, cross-linked, heavy-duty polyolefin tubing is highly chemical-, abrasion-, and split-resistant.

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Shrink Tubing Length	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
14 to 10 AWG	0.350 in	6 in	Black	Power First	4RCX6	**4RCX6**	25
14 to 10 AWG	0.350 in	4 ft	Black	Power First	4RCX7	**4RCX7**	5
12 to 6 AWG	0.400 in	4 ft	Red	3M	HDT-0400-48A-RED	**4KND2**	20
8 to 6 AWG	0.510 in	6 in	Black	Power First	4RCX8	**4RCX8**	25
6 to 2 AWG	0.750 in	4 ft	Black	Power First	4RCX9	**4RCX9**	5
8 to 1/0 AWG	0.800 in	4 ft	Black	3M	HDT-0800-48A-RED	**4KND5**	20
4 to 3/0 AWG	1.100 in	9 in	Black	Power First	4RCY1	**4RCY1**	10
1 to 3/0 AWG	1.100 in	4 ft	Black	Power First	4RCY2	**4RCY2**	5
2 to 4/0 AWG	1.100 in	4 ft	Red	3M	HDT-1100-48A-RED	**4KND6**	20
2/0 AWG to 350 kcmil	1.500 in	12 in	Black	Power First	4RCY3	**4RCY3**	5
2/0 AWG to 350 kcmil	1.500 in	4 ft	Black	Power First	4RCY4	**4RCY4**	5
250 to 600 kcmil	2.000 in	15 in	Black	Power First	4RCY5	**4RCY5**	2
250 to 600 kcmil	2.000 in	4 ft	Black	Power First	4RCY6	**4RCY6**	2





Specialty and Large-Diameter Heat-Shrink Tubing

- Flexible, crossed-linked tubing
- 2:1 shrink ratio

FOOD-GRADE

Meets the requirements of USFDA Reg. C.F.R. 177.1330 for contact with food and beverages. Acrylated olefin resists a variety of chemicals, oils, UV, moisture, and fungus.

MEDICAL-GRADE USP CLASS VI—ISO 10993-5

Acrylated olefin tubing has high dielectric strength and is supplied alcohol wiped and double-plastic bagged. Use for biocompatible insulation and jacketing of surgical instruments, components, and temporary implantation devices.

VITON®

Modified elastomer material can withstand high temperatures. Highly resistant to corrosive chemicals, fuels, lubricants, acids, and solvents. Superior cut-through, abrasion, and impact properties. Meets Military Specifications.

EXTRA-LARGE DIAMETER PVC

PVC is for indoor and outdoor applications to help insulate, protect, bundle, repair, and identify. 30% stronger than polyolefin and has a high dielectric and tensile strength. Highly flame retardant and offers superior abrasion and UV resistance. Resists many chemicals, oils, chlorine, moisture, salt water, and fungus. Meets UL, CSA, and Military Specifications.

MODIFIED POLYVINYLIDENE FLUORIDE

Flame retardant, thin-walled tubing offers high dielectric and mechanical strength. Resists temperature, industrial fuels, chemicals, and solvents. Semirigid and has outstanding abrasion resistance and cut-through properties.

Use Shrink Tubing w/ Wire Size	Shrink Tubing I.D. Before Shrinking	Mfr. Model	Shrink Tubing Length	Item No.	Pkg. Qty.	Shrink Tubing Length	Item No.	Pkg. Qty.	Shrink Tubing Length	Item No.	Pkg. Qty.
Food Grade Acrylate Olefin, -67° to 250°F, Black, Insultab											
28 to 26 AWG	0.093 in	HS-614 3/32 Blk	6 in	**4WMR1**	5	4 ft	**4WMR7**	5	100 ft	**4WMT4**	1
24 to 22 AWG	0.125 in	HS-614 1/8 Blk	6 in	**4WMR2**	5	—	—	—	100 ft	**4WMT5**	1
20 to 18 AWG	0.187 in	HS-614 3/16 Blk	6 in	**4WMR3**	5	4 ft	**4WMR9**	5	100 ft	**4WMT6**	1
16 to 12 AWG	0.250 in	HS-614 1/4 Blk	6 in	**4WMR4**	5	4 ft	**4WMT1**	5	100 ft	**4WMT7**	1
12 to 8 AWG	0.375 in	HS-614 3/8 Blk	6 in	**4WMR5**	5	4 ft	**4WMT2**	5	100 ft	**4WMT8**	1
6 to 1 AWG	0.500 in	HS-614 1/2 Blk	6 in	**4WMR6**	5	4 ft	**4WMT3**	5	100 ft	**4WMT9**	1
Medical Grade Acrylate Olefin, -67° to 250°F, Black, Insultab											
28 to 26 AWG	0.093 in	HS-714 3/32 Blk	6 in	**4WMU1**	5	4 ft	**4WMU7**	5	100 ft	**4WMV4**	1
24 to 22 AWG	0.125 in	HS-714 1/8 Blk	6 in	**4WMU2**	5	4 ft	**4WMU8**	5	100 ft	**4WMV5**	1
20 to 18 AWG	0.187 in	HS-714 3/16 Blk	6 in	**4WMU3**	5	4 ft	**4WMU9**	5	100 ft	**4WMV6**	1
16 to 12 AWG	0.250 in	HS-714 1/4 Blk	6 in	**4WMU4**	5	4 ft	**4WMV1**	5	100 ft	**4WMV7**	1
12 to 8 AWG	0.375 in	HS-714 3/8 Blk	6 in	**4WMU5**	5	4 ft	**4WMV2**	5	100 ft	**4WMV8**	1
6 to 1 AWG	0.500 in	HS-714 1/2 Blk	6 in	**4WMU6**	5	—	—	—	100 ft	**4WMV9**	1
Viton Modified Elastomer, -67° to 392°F, Black, Insultab											
24 to 22 AWG	0.125 in	HS-VTN 1/8 Blk	6 in	**4WND1**	5	4 ft	**4WNE2**	5	200 ft	**4WNF3**	1
20 to 18 AWG	0.187 in	HS-VTN 3/16 Blk	6 in	**4WND2**	5	—	—	—	200 ft	**4WNF4**	1
16 to 12 AWG	0.250 in	HS-VTN 1/4 Blk	6 in	**4WND3**	5	—	—	—	200 ft	**4WNF5**	1
12 to 8 AWG	0.375 in	HS-VTN 3/8 Blk	6 in	**4WND4**	5	4 ft	**4WNE5**	5	200 ft	**4WNF6**	1
6 to 1 AWG	0.500 in	HS-VTN 1/2 Blk	6 in	**4WND5**	5	4 ft	**4WNE6**	5	100 ft	**4WNF7**	1
5 to 3/0 AWG	0.625 in	HS-VTN 5/8 Blk	6 in	**4WND6**	5	—	—	—	100 ft	**4WNF8**	1
4 to 3/0 AWG	0.750 in	HS-VTN 3/4 Blk	6 in	**4WND7**	5	4 ft	**4WNE8**	5	100 ft	**4WNF9**	1
—	1.000 in	HS-VTN 1" Blk	6 in	**4WND8**	5	4 ft	**4WNE9**	5	50 ft	**4WNG1**	1
—	1.500 in	HS-VTN 1 1/2 Blk	6 in	**4WND9**	5	4 ft	**4WNF1**	5	50 ft	**4WNG2**	1
—	2.000 in	HS-VTN 2" Blk	6 in	**4WNE1**	5	4 ft	**4WNF2**	5	50 ft	**4WNG3**	1
Extra Large Diameter PVC, -4° to 221°F, Black, Insultab											
—	2.000 in	HS-105 2" Blk	—	—	—	10 ft	**4WNG4**	1	50 ft	**4WNG8**	1
—	2.500 in	HS-105 2 1/2 Blk	—	—	—	10 ft	**4WNG5**	1	50 ft	**4WNG9**	1
—	3.000 in	HS-105 3" Blk	—	—	—	5 ft	**4WNG6**	1	25 ft	**4WNH1**	1
—	4.000 in	HS-105 4" Blk	—	—	—	5 ft	**4WNG7**	1	25 ft	**4WNH2**	1
Extra Large Diameter PVC, -4° to 221°F, Clear, Insultab											
—	2.000 in	HS-105 2" Clr	—	—	—	10 ft	**4WNH3**	1	50 ft	**4WNH7**	1
—	2.500 in	HS-105 2 1/2 Clr	—	—	—	10 ft	**4WNH4**	1	50 ft	**4WNH8**	1
—	3.000 in	HS-105 3" Clr	—	—	—	5 ft	**4WNH5**	1	25 ft	**4WNH9**	1
—	4.000 in	HS-105 4" Clr	—	—	—	5 ft	**4WNH6**	1	25 ft	**4WNJ1**	1
Modified Polyvinylidene Fluoride, -67° to 347°F, Clear, 3M											
23 to 17 AWG	0.046 in	MFP 3/64" PK25	—	—	—	4 ft	**4NLA3**	25	—	—	—
28 to 26 AWG	0.063 in	MFP 1/16" PK25	—	—	—	4 ft	**4NLA4**	25	—	—	—
28 to 26 AWG	0.093 in	MFP 3/32" PK25	—	—	—	4 ft	**4NLA5**	25	—	—	—
22 to 16 AWG	0.125 in	MFP 1/8" PK25	—	—	—	4 ft	**4NLA6**	25	—	—	—
20 to 18 AWG	0.187 in	MFP 3/16" PK12	—	—	—	4 ft	**4NLA7**	12	—	—	—
16 to 12 AWG	0.250 in	MFP 1/4" PK12	—	—	—	4 ft	**4NLA8**	12	—	—	—
12 to 8 AWG	0.375 in	MFP 3/8" PK12	—	—	—	4 ft	**4NLA9**	12	—	—	—
6 to 1 AWG	0.500 in	MFP 1/2" PK5	—	—	—	4 ft	**4NLC1**	5	—	—	—
4 to 3/0 AWG	0.750 in	MFP 3/4" PK5	—	—	—	4 ft	**4NLC2**	5	—	—	—





Insulating Kits for Motor Connections and Mechanical Connectors

Kits insulate from moisture and provide physical protection for electrical connections.

Motor Lead—Make a uniform seal without torches or special tools. Pigtail kits make lugged motor lead connections to incoming feeder cables. Preformed, slip-on rubber boots and mastic sealing strips fit a wide range of cable sizes. Use copper 1-hole lugs only (not included). 90°C continuous use temperature rating.

Power Cable—Resin-encapsulated splice creates an extremely reliable seal. 90°C continuous use temperature rating.

Scotchcast™ MultiMold—Electrically insulates odd-sized and odd-shaped cable splices. Ready for service within 30 min. Allows use with split-bolt, H or C tap connectors. 90°C continuous use temperature rating.

Wire Range	Overall Length	Voltage Rating	Mfr. Model	Item No.
Motor Lead Splice Kits, Make 3 Splices				
16 to 12 AWG	2.1"	1000V	5300	**4NU47**
12 to 4 AWG	4.0"	1000V	5301	**4NU48**
10 to 4 AWG	4.0"	1000V	5311	**5ZNL2**
4 to 1/0 AWG	4.2"	1000V	5302	**4NU49**
2 AWG to 250 kcmil	5.3"	1000V	5303	**4NU50**
4/0 AWG to 500 kcmil	6.7"	1000V	5304	**4NU51**
10 to 4 AWG	8.0"	5000V to 8000V	5316	**5ZNL6**
10 to 4 AWG	8.0"	5000V to 8000V	5321	**5ZNN0**
4 to 1/0 AWG	9.0"	1000V	5312	**5ZNL3**
4 to 1/0 AWG	9.0"	5000V to 8000V	5322	**5ZNN1**
2 AWG to 250 kcmil	9.0"	1000V	5313	**5ZNL4**
4 to 1/0 AWG	9.5"	5000V to 8000V	5317	**5ZNL7**
2 AWG to 250 kcmil	10.0"	5000V to 8000V	5323	**5ZNN2**
10 to 4 AWG	11.0"	5000V to 8000V	5331	**5ZNN4**
2 AWG to 250 kcmil	11.0"	5000V to 8000V	5318	**5ZNL8**
4/0 AWG to 500 kcmil	11.5"	5000V to 8000V	5324	**5ZNN3**
10 to 4 AWG	11.8"	5000V to 8000V	5381	**5ZNN8**
4 to 1/0 AWG	12.0"	5000V to 8000V	5382	**5ZNN9**
4/0 AWG to 500 kcmil	12.0"	1000V	5314	**5ZNL5**
4 to 1/0 AWG	13.0"	5000V to 8000V	5332	**5ZNN5**
4/0 AWG to 500 kcmil	13.0"	5000V to 8000V	5319	**5ZNL9**
2 AWG to 250 kcmil	13.2"	5000V to 8000V	5383	**5ZNP0**
4/0 AWG to 500 kcmil	14.5"	5000V to 8000V	5384	**5ZNP1**
2 AWG to 250 kcmil	16.0"	5000V to 8000V	5333	**5ZNN6**
4/0 AWG to 500 kcmil	18.0"	5000V to 8000V	5334	**5ZNN7**
Power Cable Splice Kits, Make 1 Splice				
10 to 2 AWG	4.5"	5000V	82-A1N	**4NU52**
4 to 2 AWG	4.5"	5000V	82-B1N	**4NU55**
1/0 to 2/0 AWG	8.0"	1000V	90-B1N	**4NU57**
2 to 3/0 AWG	11 7/8"	5000V	82-A2N	**4NU53**
Scotchcast™ Multimold Splice Kits, Make 1 Splice				
8 to 4 AWG	5.0"	1000V	85-10	**4DYX7**
1 to 2/0 AWG	7.0"	1000V	85-12	**4NU56**
22 to 10 AWG	7.1"	1000V	72-N1	**5ZNK6**
6 to 1/0 AWG	8.0"	1000V	82-F1	**5ZNK4**
4/0 AWG to 250 kcmil	8.0"	1000V	85-16	**4DYX9**
2/0 to 4/0 AWG	8.0"	1000V	85-14	**4DYX8**
22 to 10 AWG	10.5"	1000V	72-N2	**5ZNK7**
2/0 to 4/0 AWG	12.0"	1000V	82-F2	**5ZNK5**
22 to 10 AWG	15.4"	1000V	72-N3	**5ZNK8**
22 to 10 AWG	15.6"	1000V	72-N4	**5ZNK9**
22 to 10 AWG	20.3"	1000V	72-N5	**5ZNL0**
22 to 10 AWG	25.0"	1000V	72-N6	**5ZNL1**



No. 22C288



No. 22C327

BURNDY®

1- and 2-Hole Compression Lugs

- Rated for 600V to 35kV, 90°C applications

Lugs withstand a wide range of electrical and environmental conditions, including current surges, extreme temperatures, corrosion, and vibration. Designed to operate cooler than the wire on which they are insulated. Electro-tin plated for corrosion resistance. Aluminum terminals come prefilled with PENTROX™ oxide inhibitor compound.

Cable Size	Stud Size	W	Color Code	Die Code	Item No.
1-Hole Lug, Short Barrel, Copper					
8 AWG	#6	0.29"	Red	49	**22P088**
8 AWG	#8 to #10	0.41"	Red	49	**22C296**
8 AWG	¼"	0.44"	Red	49	**22C289**
8 AWG	⅜"	0.59"	Red	49	**22C301**
6 AWG	#6	0.30"	Blue	7	**22P084**
6 AWG	#8 to #10	0.41"	Blue	7, 374	**22C297**
6 AWG	¼"	0.46"	Blue	7, 374	**22C288**
6 AWG	5⁄16"	0.52"	Blue	7, 374	**22C306**
6 AWG	⅜"	0.63"	Blue	7, 374	**22C291**
4 AWG	¼"	0.51"	Gray	8	**22C292**
4 AWG	⅜"	0.58"	Gray	8	**22C293**
2 AWG	¼"	0.50"	Brown	10	**22P096**
2 AWG	¼"	0.61"	Brown	10	**22C294**
2 AWG	5⁄16"	0.61"	Brown	10	**22C298**
2 AWG	⅜"	0.61"	Brown	10	**22C290**
2 AWG	½"	0.73"	Brown	10	**22C299**
1 AWG	¼"	0.50"	Green	11	**22P095**
1/0	⅜"	0.75"	Pink	12	**22C304**
2/0	5⁄16"	0.62"	Black	13	**22P089**
2/0	⅜"	0.83"	Black	13	**22C295**
2/0	½"	0.83"	Black	13	**22C307**
3/0	⅜"	0.91"	Orange	14	**22C309**
3/0	½"	0.91"	Orange	14	**22C310**
4/0	⅜"	0.76"	Purple	15	**22P097**
4/0	⅜"	1.02"	Purple	15	**22C305**
4/0	½"	1.02"	Purple	15	**22C302**
250 kcmil	½"	1.11"	Yellow	16	**22C308**
350 kcmil	⅜"	0.96"	Red	18	**22P098**
350 kcmil	½"	1.30"	Red	18	**22C311**
500 kcmil	½"	1.56"	Brown	20, 299	**22C312**
1-Hole Lug, Short Barrel, Aluminum					
1/0	⅜"	0.85"	Tan	296	**22C414**
2/0	⅜"	0.67"	Olive	297	**22C416**
2/0	½"	1.03"	Olive	297	**22C403**
1-Hole Lug, Long Barrel, Copper					
8 AWG	¼"	0.44"	Red	49	**22C360**
8 AWG	⅜"	0.59"	Red	49	**22C364**
6 AWG	¼"	0.41"	Blue	7	**22C333**
4 AWG	¼"	0.51"	Gray	8	**22C342**
4 AWG	⅜"	0.59"	Gray	8	**22C369**
4 AWG	½"	0.83"	Gray	8	**22C348**
2 AWG	¼"	0.61"	Brown	10	**22C371**
2 AWG	5⁄16"	0.61"	Brown	10	**22C339**
2 AWG	⅜"	0.59"	White	9	**22C376**
2 AWG	½"	0.81"	Brown	10	**22C381**
2 AWG	½"	0.83"	Brown	10	**22C345**
1/0	⅜"	0.75"	Pink	12	**22C361**
2/0	⅜"	0.83"	Black	13	**22C341**
3/0	½"	0.90"	Orange	14	**22C350**
4/0	⅜"	1.02"	Purple	15	**22C367**
4/0	½"	1.02"	Purple	15	**22C335**
250 kcmil	½"	1.10"	Yellow	16	**22C346**
350 kcmil	½"	1.29"	Red	18	**22C352**
500 kcmil	½"	1.56"	Brown	20, 299	**22C382**
500 kcmil	½"	1.56"	Brown	20, 299	**22C354**
500 kcmil	⅝"	1.56"	Brown	20	**22C355**
1-Hole Lug, Long Barrel, Aluminum					
4 AWG	⅜"	0.80"	Green	375	**22C417**
2 AWG	⅜"	0.88"	Pink	348	**22C410**
4/0	⅜"	1.17"	White	298	**22C401**
4/0	½"	1.17"	White	298	**22C404**
250 kcmil	½"	1.27"	Red	324	**22C409**
350 kcmil	½"	1.52"	Brown	299	**22C408**
500 kcmil	⅝"	1.80"	Pink	300	**22C419**
750 kcmil	½"	2.05"	Yellow	936	**22C421**
1-Hole Lug, Belled Short Barrel, Copper					
6 AWG	¼"	1.44"	Blue	1014	**22C393**
4 AWG	5⁄16"	0.55"	White	1016	**22C383**
2 AWG	5⁄16"	0.69"	Green	1018	**22C386**
1 AWG	5⁄16"	0.75"	Pink	1019	**22C390**
2/0	⅜"	0.81"	Black	1020	**22C389**
2/0	½"	0.91"	Orange	1021	**22C387**
3/0	½"	1.00"	Purple	1022	**22C394**
4/0	½"	1.09"	Yellow	1023	**22C384**
250 kcmil	½"	1.19"	White	1024	**22C395**
250 kcmil	½"	1.29"	Red	1025	**22C388**
350 kcmil	⅝"	1.52"	Brown	1027	**22C392**
450 kcmil	⅝"	1.69"	Green	1028	**22C396**
750 kcmil	⅝"	2.18"	White	1032	**22C391**

Cable Size	Stud Size	W	Hole Center to Center	Color Code	Die Code	Item No.
2-Hole Lug, Short Barrel, Copper						
8 AWG	¼"	0.44"	0.625"	Red	49	**22C316**
6 AWG	#10	0.42"	0.625"	Blue	7	**22C320**
6 AWG	¼"	0.45"	0.500"	Blue	7	**22C322**
6 AWG	¼"	0.45"	0.625"	Blue	7	**22C313**
6 AWG	¼"	0.45"	0.625"	Blue	7, 374	**22C303**
6 AWG	¼"	0.45"	0.750"	Blue	7	**22C314**
6 AWG	¼"	0.45"	1.000"	Blue	7	**22C321**
6 AWG	⅜"	0.58"	1.000"	Blue	7	**22C319**
4 AWG	#10	0.55"	0.625"	Gray	8	**22P093**
4 AWG	¼"	0.51"	0.625"	Gray	8	**22C317**
4 AWG	¼"	0.51"	0.750"	Gray	8	**22C326**
4 AWG	⅜"	0.59"	1.000"	Gray	8	**22C324**
2 AWG	¼"	0.48"	0.625"	Brown	10	**22P080**
2 AWG	¼"	0.48"	0.750"	Brown	10	**22C422**
2 AWG	¼"	0.61"	0.625"	Brown	10	**22C315**
2 AWG	¼"	0.61"	0.750"	Brown	10	**22C323**
2 AWG	⅜"	0.61"	1.000"	Brown	10	**22C318**
1/0	¼"	0.75"	0.625"	Pink	12	**22C330**
1/0	⅜"	0.75"	1.000"	Pink	12	**22C325**
2/0	¼"	0.48"	0.625"	Black	13	**22P086**
2/0	⅜"	3.20"	1.000"	Black	13	**22C329**
3 AWG	¼"	0.55"	0.625"	White	9	**22C328**
4/0	⅜"	0.94"	1.000"	Purple	15	**22P083**
4/0	⅜"	1.02"	1.000"	Purple	15	**22C327**
374 kcmil	⅜"	0.96"	1.000"	Blue	19	**22P081**
535 kcmil	⅜"	1.63"	1.000"	Pink	L99	**22P082**
777 kcmil	⅜"	1.63"	1.000"	Yellow	L115	**22C423**
777 kcmil	½"	1.63"	1.750"	Yellow	L115	**22P090**
2-Hole Lug, Long Barrel, Copper						
8 AWG	¼"	0.43"	0.625"	Red	49	**22C362**
8 AWG	⅜"	0.59"	1.000"	Red	49	**22C374**
6 AWG	¼"	0.46"	0.625"	Blue	7	**22C357**
6 AWG	¼"	0.46"	0.750"	Blue	7	**22C368**
6 AWG	¼"	0.46"	1.000"	Blue	7	**22C375**
6 AWG	⅜"	0.59"	1.000"	Blue	7	**22C358**
4 AWG	¼"	0.51"	0.625"	Gray	8	**22C370**
2 AWG	¼"	0.61"	0.625"	Brown	10	**22C363**
2 AWG	⅜"	0.61"	1.000"	Brown	10	**22C359**
2 AWG	½"	0.83"	1.750"	Brown	10	**22C340**
1/0	⅜"	0.75"	1.000"	Pink	12	**22C373**
1/0	½"	0.83"	1.750"	Pink	12	**22C344**
2/0	⅜"	0.82"	1.000"	Black	13	**22C372**
2/0	½"	0.81"	1.750"	Black	13	**22C338**
3/0	⅜"	0.90"	1.000"	Orange	14	**22C377**
3/0	½"	0.91"	1.750"	Orange	14	**22C349**
3 AWG	⅜"	0.58"	1.000"	White	9	**22C366**
4/0	⅜"	0.94"	1.000"	Purple	15	**22P087**
4/0	⅜"	1.01"	1.000"	Purple	15	**22C365**
4/0	½"	1.00"	1.750"	Purple	15	**22C334**
250 kcmil	½"	1.09"	1.750"	Yellow	16	**22C343**
300 kcmil	½"	1.19"	1.750"	White	17	**22C353**
350 kcmil	⅜"	1.29"	1.000"	Red	18	**22C380**
350 kcmil	½"	1.28"	1.750"	Red	18	**22C337**
374 kcmil	⅜"	0.96"	1.000"	Blue	19	**22P094**
400 kcmil	½"	1.38"	1.750"	Blue	19	**22C351**
500 kcmil	⅜"	1.56"	1.000"	Brown	20	**22C379**
500 kcmil	½"	1.52"	1.750"	Brown	20	**22C332**
500 kcmil	½"	1.63"	1.750"	Pink	L99	**22P091**
600 kcmil	⅜"	1.74"	1.000"	Green	22	**22C378**
600 kcmil	½"	1.69"	1.750"	Green	22	**22C336**
750 kcmil	½"	1.63"	1.750"	Black	24	**22P101**
750 kcmil	½"	1.89"	1.750"	Black	24	**22C347**
1000 kcmil	½"	2.17"	1.750"	White	27	**22C356**
2-Hole Lug, Long Barrel, Aluminum						
1/0	½"	1.03"	1.750"	Tan	296	**22C415**
2/0	½"	1.03"	1.750"	Olive	297	**22C418**
3/0	½"	1.04"	1.750"	Ruby	467	**22C411**
4/0	½"	1.17"	1.750"	White	298	**22C406**
250 kcmil	½"	1.27"	1.750"	Red	324	**22C407**
350 kcmil	½"	1.52"	1.750"	Brown	299	**22C405**
400 kcmil	½"	1.62"	1.750"	Green	472	**22C413**
500 kcmil	½"	1.62"	1.750"	Pink	300	**22C398**
600 kcmil	½"	1.62"	1.750"	Black	473	**22C402**
750 kcmil	½"	1.62"	1.750"	Yellow	936	**22C399**
2-Hole Lug, Angled Barrel, Short Barrel, Copper						
6 AWG	¼"	0.45"	0.625"	Blue	7	**22C331**



1-Hole Angle Barrel
No. 6MFT2



1-Hole Aluminum
No. 6MFT9



1-Hole
Long Barrel
No. 6MFT4



2-Hole Short Barrel
No. 6MFR7

Thomas&Betts

1- and 2-Hole Lugs

- Tin-plated
- For 600V to 35KV, 90°C applications

Designed and approved for aluminum and copper conductors. Order installation tools and dies on page 382. UL Listed and CSA Certified.

Aluminum—Constructed of high-conductivity wrought aluminum filled with a high-temperature oxide inhibitor compound.

Copper—Constructed of high-conductivity wrought copper.

Cable Size	Stud Size	Color Code	Die Code	Item No.
1-Hole Lug, Angled Barrel, Short Barrel, Copper				
8 AWG	¼"	Red	21	**6MFT2**
6 AWG	¼"	Blue	24	**6MFR8**
6 AWG	¼"	Blue	24	**6MFT5**
4 AWG	¼"	Gray	29	**6MFT3**
250 kcmil	⅜"	Yellow	62	**6MFV1**
1-Hole Lug, Long Barrel, Aluminum				
10 AWG	#10	Red	21	**6MFT9**
1-Hole Lug, Long Barrel, Copper				
6 AWG	#10	Blue	24	**6MFT1** *
1-Hole Lug, Short Barrel, Copper				
6 AWG	¼"	Blue	24	**6MFT4** *
2 AWG	¼"	Brown	33	**6MFV5**
1 AWG	¼"	Green	37	**6MFV6**
1/0	¼"	Pink	42	**6MFV7**
4/0	¼"	Purple	54	**6MFV9**
4/0	5⁄16"	Yellow	62	**6MFV2**
4/0	⅜"	Yellow	62	**6MFV3**
10 AWG	¼"	Yellow	—	**6MFT6**
1-Hole Lug, Standard Barrel, Copper				
3/0	¼"	Orange	50	**6MFV8**
4/0	½"	Yellow	62	**6MFV4**
2-Hole Lug, Angled Barrel, Long Barrel, Copper				
6 AWG	¼"	Blue	24	**6MFT7**
2-Hole Lug, Long Barrel, Copper				
6 AWG	¼"	Blue	24	**6MFT0** *
2 AWG	¼"	Brown	33	**6MFV0** *
600 kcmil	½"	Green	94	**6MFW0**
646 kcmil	½"	Black	106	**6MFW2**
750 kcmil	½"	Black	106	**6MFW1**
2-Hole Lug, Short Barrel, Copper				
14 to 10 AWG	¼"	Yellow		**6MFT8**
6 AWG	#10	Blue	24	**6MFR7** *
6 AWG	¼"	Blue	24	**6MFR9** *

** Includes peep hole.*


No. 24D013


No. 24D032

GRAINGER APPROVED

1- and 2-Hole Compression Connectors

- Copper
- 600V to 35kV

Cable Size	Color Code	Die Code	#10 STUD SIZE Item No.	1/4" STUD SIZE Item No.	5/16" STUD SIZE Item No.	3/8" STUD SIZE Item No.	1/2" STUD SIZE Item No.
1-Hole Lug, Short Barrel							
8 AWG	Red	21	24C337	24C340	24C349	24C358	—
6 AWG	Blue	24	24C338	24C341	24C350	24C359	—
4 AWG	Gray	29	24C339	24C342	24C351	24C360	—
2 AWG	Brown	33	—	24C343	24C352	24C361	24C368
1 AWG	Green	37	—	24C344	24C353	24C362	24C369
1/0	Pink	42	—	24C345	24C354	24C363	24C370
2/0	Black	45	—	24C346	24C355	24C364	24C371
3/0	Orange	50	—	24C347	24C356	24C365	24C372
4/0	Purple	54	—	24C348	24C357	24C366	24C373
250 kcmil	Yellow	62	—	24C986	24C987	24C367	24C374
500 kcmil	Brown	87	—	—	—	24C988	24C375
1-Hole Lug, Long Barrel							
8 AWG	Red	21	24C312	24C318	—	—	—
6 AWG	Blue	24	24C313	24C319	24C989	24C990	24C991
4 AWG	Gray	29	24C314	24C320	—	24C992	24C993
2 AWG	Brown	33	24C315	24C994	24C322	24C995	24C996
1 AWG	Green	37	24C316	24C997	24C323	24C998	24C999
1/0	Pink	42	24C317	24D001	24C324	24C325	24C328
2/0	Black	45	—	24D002	24D003	24C326	24C329
3/0	Orange	50	—	24D004	—	24D005	24C330
4/0	Purple	54	—	24C321	—	24C327	24C331
250 kcmil	Yellow	62	—	—	—	24D006	24C332
300 kcmil	White	66	—	—	24D007	24D008	24C333
350 kcmil	Red	71	—	—	—	24D009	24C334
400 kcmil	Blue	76	—	—	—	24D010	24C335
500 kcmil	Brown	87	—	—	—	24D011	24C336
2-Hole Lug, Short Barrel							
8 AWG	Red	21	24C416	24C418	—	24C432	24D012
6 AWG	Blue	24	24C417	24C419	24D013	24C433	24D014
4 AWG	Gray	29	24D015	24C420	24C426	24C434	24D016
2 AWG	Brown	33	—	24C421	24D017	24C435	24C443
1 AWG	Green	37	—	24C422	24C427	24C436	24D018
1/0	Pink	42	—	24C423	24C428	24C437	24C444
2/0	Black	45	—	24C424	24C429	24C438	24C445
3/0	Orange	50	—	24D019	24C430	24C439	24C446
4/0	Purple	54	—	24C425	24C431	24C440	24C447
250 kcmil	Yellow	62	—	—	—	24C441	24C448
500 kcmil	Brown	87	—	24D020	—	24C442	24C449
2-Hole Lug, Long Barrel							
8 AWG	Red	21	24D021	24C376	—	24C388	—
6 AWG	Blue	24	24D022	24C377	—	24C389	24C403
4 AWG	Gray	29	24D023	24C378	24C385	24C390	24C404
2 AWG	Brown	33	24D024	24C379	24C386	24C391	24C405
1 AWG	Green	37	—	24C380	24C387	24C392	24C406
1/0	Pink	42	—	24C381	24D025	24C393	24C407
2/0	Black	45	—	24C382	24D026	24C394	24C408
3/0	Orange	50	—	24C383	24D027	24C395	24C409
4/0	Purple	54	—	24C384	24D028	24C396	24C410
250 kcmil	Yellow	62	—	—	24D029	24C397	24C411
300 kcmil	White	66	—	—	—	24C398	24C412
350 kcmil	Red	71	—	24D030	—	24C399	24C413
400 kcmil	Blue	76	—	24D031	—	24C401	24C414
500 kcmil	Brown	87	—	24D032	—	24C402	24C415


No. 29YK63


No. 29YK67

GRAINGER APPROVED

Aluminum to Copper Compression Lugs

- 600V to 35kV
- 1-hole mounting
- Body material: aluminum

Cable Size	Color Code	Die Code	STUD SIZE 3/16" Item No.	1/4" Item No.	5/16" Item No.	3/8" Item No.	1/2" Item No.
8 AWG	Blue	24	29YK77	29YK78	29YK63	29YK64	—
6 AWG	Gray	29	29YK65	29YK79	29YK66	29YK80	—
4 AWG	Green	37	—	29YK81	29YK82	29YK83	—
2 AWG	Pink	42	—	29YK84	29YK85	29YK86	29YK67
1 AWG	Gold	45	—	29YK68	29YK69	29YK87	29YK70
1/0	Tan	50	—	29YK71	29YK88	29YK89	29YK90
2/0	Olive	54	—	29YK72	29YK73	29YK91	29YK92
3/0	Ruby	60	—	29YK74	29YK75	29YK93	29YK94
4/0	White	66	—	—	29YK76	29YK95	29YK96
250 kcmil	Red	71	—	—	—	—	29YK97

IDEAL

Noalox® Antioxidant



Improves efficiency and service life of aluminum electrical applications. Provides additional inner-strand and inner-conductor current paths for improved conductivity. Suspended zinc particles penetrate and cut aluminum oxide. Reduces galling and seizing on aluminum conduit joints, promoting good ground continuity. Suitable for all pressure-type wire connectors.

Size	Mfr. Model	Item No.
8 oz.	30-030	6YH33



No. 3LP03

Thomas&Betts

Conductive Anticorrosion Surface Compounds

Kopr-Shield®—This antiseize and conductive compound is a blend of colloidal copper and inhibitors. It prevents oxidation corrosion by flowing between and around cable strands, greatly reducing intra-strand resistance. Rated for NEC applications up to 8KV and 90°C.

Aluma-Shield®—Contains fine zinc particles that break through oxide film on cable strands when connection is compressed; assures a low-resistance contact and seals out air and moisture. UL Listed only for use on electrical cables in cable connector assemblies, or on bus bars rated for NEC applications up to 8KV and 90°C.

Trade Name	Container Size	Mfr. Model	Item No.
Kopr-Shield	8 oz.	CP8-TB	3LP03
Kopr-Shield	16 oz.	CP16	3LP02
Aluma-Shield	8 oz.	AP8	3LN47


No. 22P103


No. 22P120

BURNDY

Aluminum Compression Adapters

- Rated for 600V to 35kV, 90°C applications

Accommodate aluminum and copper wire conductor and electro-tin plated for bi-metallic corrosion resistance. These connectors come prefilled with PENTROX™ oxide inhibitor compound. EPDM or Santoprene rubber covers are packaged with each connector. Applications include mechanical connectors in molded case circuit breakers, panel board equipment, and meter sockets. UL Listed and CSA Certified.

Max. Wire Size	Mfr. Model	Item No.
Offset Adapters		
2/0 AWG	AYPO2/0	22P111
3/0 AWG	AYPO3/0	22P103
4/0 AWG	AYPO4/0	22P105
250 kcmil	AYPO250	22P109
300 kcmil	AYPO300	22P112
350 kcmil	AYPO350	22P110
400 kcmil	AYPO400	22P114
500 kcmil	AYPO500	22P108
600 kcmil	AYPO600	22P106
750 kcmil	AYPO750	22P104
Compression Adapters		
6 AWG	AYP6	22P121
4 AWG	AYP4	22P117
2 AWG	AYP2	22P113
1 AWG	AYP1	22P118
1/0 AWG	AYP1/0	22P115
250 kcmil	AYP250	22P120
350 kcmil	AYP350	22P119
500 kcmil	AYP500	22P107
750 kcmil	AYP750	22P116

BURNDY®

Hylug™ Ring Tongue Compression Lugs

- Body material: tin-plated copper
- Mounting: stud
- Head style: ring tongue

Feature noninsulated brazed-barrel copper terminals.

Cable Size	Die Code	Mfr. Model	Pkg. Qty.	STUD SIZE #8 Item No.	#10 Item No.	¼" Item No.	5/16" Item No.	⅜" Item No.	½" Item No.	⅝" Item No.	¾" Item No.
8 AWG	1013	YAD8CM	10	30XT40	30XT41	30XT42	30XT43	30XT37	30XT38	30XT39	—
6 AWG	—	YAD6CM	10	—	30XT34	30XT35	30XT36	30XT32	30XT33	—	—
4 AWG	1017	YAD4CM	5	—	30XT29	30XT30	30XT31	30XT25	30XT26	30XT27	30XT28
2 AWG	1018	YAD2CM	5	—	—	30XT07	30XT08	30XT03	30XT04	30XT05	30XT06
1 AWG	1019	YAD1CM	1	—	—	30XR77	30XR78	30XR73	30XR74	30XR75	30XR76
1/0	1019	YAD25M	1	—	—	30XR83	30XR84	30XR79	30XR80	30XR81	30XR82
2/0	1022	YAD26M	1	—	—	30XR89	30XR90	30XR85	30XR86	30XR87	30XR88
3/0	1023	YAD27M	1	—	—	—	30XR95	30XR91	30XR92	30XR93	30XR94
4/0	1026	YAD28M	1	—	—	30XT01	30XT02	30XR96	30XR97	30XR98	30XR99
300 kcmil	—	YAD30M	1	—	—	—	—	30XT09	30XT10	30XT11	30XT12
350 kcmil	—	YAD31M	1	—	—	—	—	30XT13	30XT14	30XT15	30XT16
450 kcmil	—	YAD33M	1	—	—	—	—	30XT17	30XT18	30XT19	30XT20
600 kcmil	—	YAD36M	1	—	—	—	—	30XT21	30XT22	30XT23	30XT24


No. 30XT37


No. 30XR74


No. 22P123


No. 22P233

BURNDY®

Manual Crimping Tools

Designed to install a full range of connectors, including taps, splices, and terminals.


No. 22P158


No. 22P243

Description	Adjustable	Max. Crimping Force	Overall Length	Mfr. Model	Item No.
Crimper	Manual	9000 lb.	25⅝"	MD68	22P123
Crimper, Cu	Manual	9000 lb.	9⅞"	Y1MRTC	22P158
Crimper and Connector Kit, 1-Hole	Manual	9000 lb.	9⅞"	Y1MRKIT	22P159
Crimper and Connector Kit, 2-Hole	Manual	9000 lb.	9⅞"	Y1MRTCKIT	22P160
Crimper, Cu	Manual	Not Rated	26"	MRC840	22P233
Crimper, Al	Manual	Not Rated	26"	MRC840AL	22P234
Dieless Crimper	Manual	9000 lb.	22⅝"	MY293	22P243


No. 3LM37


No. 3LN04

2-Way Connectors

Thomas&Betts

POWER FIRST

Order installation tools and dies on page 382.

COPPER

- Tin-plated wrought copper
- For 600V applications

Easy-to-insulate connectors provide low-resistance, high-quality connection, and high pullout values.

ALUMINUM

- Tin-plated wrought aluminum
- For 600V, 90°C applications

Permit aluminum-to-copper and aluminum-to-aluminum splices. Feature aluminum and copper concentric conductors and compact code aluminum strandings.

Wire Gauge	Color Code	Die Code	THOMAS & BETTS Short-Barrel Splice Item No.	THOMAS & BETTS Long-Barrel Splice Item No.	POWER FIRST Short-Barrel Splice Item No.	POWER FIRST Long-Barrel Splice Item No.
Copper						
8 AWG	Red	21	3LM13	3LM37	22EZ15	22EZ30
6 AWG	Blue	24	3LM14	3LM38	22EZ16	22EZ31
4 AWG	Gray	29	3LM15	3LM39	22EZ17	22EZ32
2 AWG	Brown	33	3LM16	3LM40	22EZ18	22EZ33
1 AWG	Green	37	3LM17	3LM41	22EZ19	22EZ34
1/0 AWG	Pink	42	3LM18	3LM42	22EZ20	22EZ35
2/0 AWG	Black	45	3LM19	3LM43	22EZ21	22EZ36
3/0 AWG	Orange	50	3LM20	3LM44	22EZ22	22EZ37
4/0 AWG	Purple	54	3LM21	3LM45	22EZ23	22EZ38
250 kcmil	Yellow	62	3LM22	3LM46	22EZ24	22EZ39
300 kcmil	White	66	3LM23	3LM47	22EZ25	22EZ40
350 kcmil	Red	71	3LM24	3LM48	22EZ26	22EZ41
400 kcmil	Blue	76	3LM25	3LM49	22EZ27	22EZ42
500 kcmil	Brown	87	3LM26	3LM50	22EZ28	22EZ43
750 kcmil	Black	106	3LM27	—	22EZ29	—
Aluminum						
8 AWG	Blue	24	—	3LN04	—	—
6 AWG	Gray	29	—	3LN05	—	—
4 AWG	Green	37	—	3LN06	—	—
2 AWG	Pink	42	—	3LN07	—	—
1 AWG	Gold	45	—	3LN08	—	—
1/0 AWG	Tan	50	—	3LN09	—	—
2/0 AWG	Olive	54	—	3LN10	—	—
3/0 AWG	Ruby	60	—	3LN11	—	—
4/0 AWG	White	66	—	3LN12	—	—
250 kcmil	Red	71	—	3LN13	—	—


No. 22P217

BURNDY®

Battery-Operated Crimping Tools

Feature high-speed hydraulic pump. Provide reliability in the harshest conditions. For use with tension sleeves, taps, aerial cables, terminals and splice, and compression connectors.

Crimping Force	Voltage	Cordless Tool Battery Type	Mfr. Model	Item No.
Crimping Tools				
6 tons, 7800 psi	14.4	NiMH	PATMD614V	22P222
6 tons, 7800 psi	14.4	NiMH	PATMD6814V	22P223
6 tons, 7800 psi	18.0	NiMH	PAT81KFT18V	22P219
6 tons, 7800 psi	18.0	Li-Ion	PAT4PC834LI	22P228
6 tons, 7800 psi	18.0	Li-Ion	PAT81KFTLI	22P220
6 tons, 10,000 psi	18.0	Li-Ion	PAT600LI	22P229
11 tons, 7800 psi	18.0	Li-Ion	PAT644LI	22P231
12 tons, 10,000 psi	18.0	NiMH	PAT750CXT18V	22P216
12 tons, 10,000 psi	18.0	Li-Ion	PAT750LI	22P217
12 tons, 10,000 psi	18.0	NiMH	PAT750XT18V	22P218
Accessories				
Battery	14.4	NiMH	BAT14V	22P212
Battery	18.0	NiMH	BAT18V	22P211
Battery Charger	18.0	NiMH	PATCHGR18V	22P213



No. 22P209

Hydraulic Crimping Tools

No. 22P210—Features a specialized latch-style head with a generous working stroke for a wide variety of crimping applications. Provides 180° head rotation. Audible pressure valve indicates properly completed crimp. High-speed ram advance for faster crimps.

No. 22P221—Features die-less flip-top head that facilitates tool removal from continuous conductor runs and eliminates the need to purchase and maintain dies. Designed with audible pressure valve. Die embossment provides 360° inspectability. Handle trigger release with convenient ram. Advanced high-speed pump provides fast crimps, longer life, efficiency, and reliability.

BURNDY

Nos. 22P209, 22P161, 22P162—Dieless system requires only 1 crimp for each wire termination for both long and standard length barrels on HYLUG terminals and HYLINK splices. Rapid-advance pump for faster crimps. Pressure relief valve provides audible indication that crimp is complete. Handle trigger drain for convenient ram retraction. Comfort-grip handle.

No. 22P163—Makes connector installation and tool removal from line conductors of overhead lines easy. Lifting eye allows head to be lifted into working position. Easy die changing. Secure die alignments are provided with heavy-duty reinforced back. Mates with all universal hot-stick tooling.

Item	Max. Crimping Force	Mfr. Model	Item No.
Crimping Tools			
Latch Head Hydraulic Crimp Tool	12,000 lb.	Y500CTHS	**22P210**
Dieless Hydraulic Crimper	12,000 lb.	Y81KFT	**22P221**
Die-less 1-Crimp Tool	22,000 lb.	Y644HSXT	**22P209**
Hypress C-Head, uses U-Die	24,000 lb.	Y750HSXT	**22P161**
Hypress Covered Head	24,000 lb.	Y750CHSXT	**22P162**
Remote Powered Crimping Head	12.0 tons	Y35BH	**22P163**
Crimping Tool Accessories			
Hydraulic Pump, ½ HP, 115V, 12.5A, 0.50 gal. Capacity		EPP10	**22P238**
Hydraulic Pump, ⅝ HP, 115V, 11A, 0.403 gal. Capacity		Y10AC9	**22P239**
Hydraulic Hose Assembly, 10,000 psi, 25 ft.		PT2990125	**22P208**



No. 22P178



No. 22P125

BURNDY

Crimping Tool Dies

Designed for making reliable and controllable electrical connections. These dies are part of a color-coded connection system where cable size is represented by a corresponding color on lugs, taps, and dies.

Color Code	Cable Range	Mfr. Model	Item No.
Type W Cutter Die (MD6, MD7, OUR840, Y500CTHS, PATMD6 Series)			
—	4 - 4/0 ACSR	W28K	**22P132**
Type W Die Holder			
—	—	WDIETREE	**22P124**
Upper and Lower Crimping Die (MD6, MD7, OUR840, Y500CTHS, PAT600, PATMD6 Series)			
Green	1 AWG	W1CVT	**22P154**
Brown	2 AWG	W2CVT	**22P148**
Gray	4 AWG	W4CVT	**22P153**
Blue	6 AWG	W5CVT	**22P151**
Red	8 AWG	W8CVT	**22P152**
Pink	1/0 AWG	W25VT	**22P146**
Black	2/0 AWG	W26VT	**22P150**
Orange	3/0 AWG	W27VT	**22P149**
Purple	4/0 AWG	W28VT	**22P147**
White	250 - 300 kcmil	W30RT	**22P157**
Red	350 kcmil	W31RT	**22P155**
Brown	500 kcmil	W34RT	**22P156**
—	6 AWG	W161	**22P131**
—	4 AWG	W162	**22P129**
—	1 AWG	W163	**22P130**
—	1 STR	W164	**22P138**
—	1/0 - 4/0 AWG	W165	**22P136**
—	3/0 AWG	W166	**22P135**
—	—	W167	**22P144**
—	2 AWG	W239	**22P142**
—	1/0 AWG	W241	**22P141**
—	2STR - 4/0 AWG	W243	**22P137**
—	2/0 AWG	W245	**22P139**
—	2/0 - 3/0 AWG	W247	**22P134**
—	2/0 - 4/0 AWG	W249	**22P128**
—	4/0 AWG	W660	**22P140**
—	4 - 2 ASCR	W687	**22P143**
—	1/0 ACSR - 1/0 AAC	W702	**22P133**
—	—	WBG	**22P125**
—	8 sol - 1/0 AWG	WC	**22P127**
—	2SOL - 4 AWG	WK840	**22P145**
—	—	WO	**22P126**
Upper and Lower Crimping Die (Y35,Y39,Y750,Y45,Y46, PAT750, PAT46)			
Green	1 AWG	U1CRT1	**22P203**
Brown	2 AWG	U2CRT	**22P188**
Gray	4 AWG	U4CRT	**22P198**
Blue	6 AWG	U5CRT	**22P197**
Red	8 AWG	U8CRT	**22P204**
Green	14-8 AWG	U11T1	**22P179**
Pink	1/0 AWG	U25RT	**22P187**
Black	2/0 AWG	U26RT	**22P186**
Orange	3/0 Kcmil	U27RT	**22P201**
White	4/0 AWG	U28ART	**22P194**
Purple	4/0 AWG	U28RT	**22P184**
Yellow	250 Kcmil	U29RT	**22P189**
White	300 Kcmil	U30RT	**22P195**
Brown	350 Kcmil	U31ART	**22P193**
Red	350 Kcmil	U31RT	**22P190**
Blue	400 Kcmil	U32RT	**22P199**
—	700 kcmil	U321	**22P172**
Purple	1 AWG - 250 kcmil	U654	**22P170**
—	700 kcmil	U655	**22P174**
—	2/0 ACSR, 2/0 AAC	U659	**22P178**
Orange	1 AWG - 250 kcmil	U997	**22P166**
Brown	4/0 AWG - 500 Kcmil	U1104	**22P173**
Brown	2-6 AWG	UC	**22P168**
—	2/0 AWG - 300 kcmil	UD3	**22P171**
—	—	UK112T	**22P183**
—	—	UO	**22P167**
Upper and Lower Crimping Die (Y46)			
Yellow	750 Flex	PYFR	**22P206**
Upper and Lower Crimping Die Set (Y35,Y39,Y750,Y45,Y46, PAT750, PAT46)			
—	6 AWG - 750 Kcmil	UDIEKITAL	**22P176**
—	6 AWG - 750 Kcmil	UDIEKITCU	**22P169**
—	—	UDIEKITHYGRD	**22P205**
—	750 Flex	PYFR	**22P206**
—	700 kcmil	U321	**22P172**
Pink	500 Kcmil	U34ART	**22P191**
Brown	500 Kcmil	U34RT	**22P185**
Green	600 kcmil	U36RT	**22P196**
Pink	535 Flex Kcmil	U38XRT	**22P202**
Black	750 Kcmil	U39RT	**22P192**
—	4 Sol	U162	**22P181**
—	2-3 Str	U163	**22P180**
—	300 Kcmil	U170	**22P182**
—	500 Kcmil	U210	**22P177**
—	700 kcmil	U316	**22P175**



Nos. 3LT12 and 3LT13



No. 3LT16

Thomas&Betts

Compression Connector Tools

Shure-Shake® mechanism ensures a properly completed crimp each time. Color-coded die wheel rotates into position for proper die nest. Works with Color-Keyed® and Blackburn®, featuring the color-keyed system connectors.



No. 3LT09

Description	Cap.	Mfr. Model	Item No.
Ratchet Crimpers			
Installs Copper and Aluminum Lugs	8 to 2 AWG Copper, 10 to 6 AWG Aluminum	TBM45S	**4XMR7**
Includes Dies 21 through 66	250 MCM to 8 AWG Copper, 10 to 4/0 AWG Aluminum	TBM5-S	**3LT12**
For Dies 21 through 76	8 AWG to 500 MCM Copper, 10 AWG to 350 MCM Aluminum	TBM6S	**3LT13**
Includes Dies 21 through 87	8 AWG to 500 KCMIL Copper, 10 AWG to 350 KCMIL Aluminum	TBM8S	**3LT16**
Hydraulic Crimping Tool			
14-Ton Manual Hydraulic Crimping Tool for Dies 21 through 94	Up to 900 MCM Copper, Up to 750 MCM Aluminum	TBM14M	**3LT09**
12-Ton Hydraulic Crimping Head, Dieless	—	TBM8-750	**3LT14**

C Taps

- **High-conductivity wrought copper**
- **For 600V applications**

Thomas&Betts

Heavy reinforcing ribs locate the compression dies and strengthen the compression joint. They assure positive, all-around compression with low resistance and high pullout values. Order installation tools and dies on this page. UL Listed.

Wire Range	L	H	Color Code	Die Code	Mfr. Model	Item No.
Main 10 to 8 AWG, Branch 10 to 12 AWG	3/16"	1/16"	Blue	24	54710	**3LM28**
Main 6 to 8 AWG, Branch 8 to 12 AWG	3/16"	5/64"	Gray	29	54715	**3LM29**
Main 8 to 4 AWG, Branch 8 to 12 AWG	1 9/32"	1 1/16"	Brown	33	54720	**3LM30**
Main 5 to 3 AWG, Branch 6 to 12 AWG	1 3/32"	1 3/16"	Green	37	54725	**3LM31**
Main 4 to 2 AWG, Branch 4 to 12 AWG	1 3/32"	2 7/32"	Pink	42	54730	**3LM32**
Main 3 to 1 AWG, Branch 3 to 12 AWG	1 11/16"	1/8"	Black	45	54735	**3LM33**
Main 2 AWG to 1/0, Branch 2 to 12 AWG	1 11/16"	3 1/32"	Orange	50	54740	**3LM34**
Main 2/0 to 1 AWG, Branch 1 to 12 AWG	1 11/16"	1 1/16"	Purple	54	54745	**3LM35**
Main 3/0 to 1/0, Branch 2 to 1/0	1 11/16"	1 3/16"	Yellow	62	54750	**3LM36**



No. 3LM28

Thomas&Betts

Compression Connector Tool Dies

For use with Thomas & Betts compression connector tools. Dies create diamond-shaped compression for proper overall crimp.

Color Code	Mfr. Model	Item No.
Dies for No. 3LT16 (TBM8S) Tool		
Red 21, Blue 24, Gray 29, Brown 33	13461	**3LJ75**
Green 37, Pink 42, Black 45, Orange 50	13462	**3LJ76**
Purple 54, Yellow 62	13463	**3LJ77**
Dies for No. 3LT12 (TBM5-S) Tool		
Red 21, Blue 24, Gray 29, Brown 33	13454	**3LJ70**
Green 37, Pink 42, Black 45, Orange 50	13455	**3LJ71**
Purple 54, Yellow 62	13456	**3LJ72**
Gold 45, Tan 50, Olive 54, Ruby 60	13457	**3LJ73**
White 66	13458	**3LJ74**
Dies for No. 3LT13 (TBM6S) Tool, Upper Dies		
Red 21, Blue 24, Pink 42, Purple 54, Olive 54	13475	**3LJ86**
Gray 29, Red 71, Blue 76	13472	**3LJ83**
Brown 33, Green 37, Black 45, Orange 50, Gold 45, Tan 50	13474	**3LJ85**
Yellow 62, Ruby 60, White 66	13473	**3LJ84**
Dies for No. 3LT13 (TBM6S) Tool, Lower Dies		
Red 21, Blue 24, Brown 33, Green 37, Pink 42, Black 45, Orange 50, Purple 54, Gold 45, Tan 50, Olive 54	13477	**3LJ88**
Gray 29, Yellow 62, Ruby 60, White 66, Red 71, Blue 76	13476	**3LJ87**
Brown 87	13478	**3LJ89** *
Dies for No. 3LT09 (TBM14M)		
Red 21	15520SS	**3LK19**
Blue 24	15522SS	**3LK20**
Gray 29	15527SS	**3LK22**
Brown 33	15528SS	**3LK23**
Green 37	15513SS	**3LK16**
Pink 42	15508SS	**3LK12**
Black 45, Gold 45	15526SS	**3LK21**
Orange 50, Tan 50	15530SS	**3LK24**
Purple 54, Olive 54	15511SS	**3LK14**
Yellow 62	15510SS	**3LK13**
White 66	15534SS	**3LK26**
Red 71	15514SS	**3LK17**
Blue 76	15512SS	**3LK15**
Brown 87	15506SS	**3LK11**



No. 3LJ75



No. 3LJ86



No. 3LJ88



No. 3LK19

** Includes upper and lower die.*

3M PANDUIT® POWER 1 FIRST Wire Terminal Kits



No. 4X257



No. 39CA62



No. 5UGK5

No. of Pieces	Terminal Type	Includes	Item No.
3M			
96	Nylon Insulated	(8) 5X427, (8) 5X428, and (8) 5X429 ¼" Male Quick Disconnects, (16) 1A075 Tap and Run, (16) 1A074 T-Tap Quick Disconnects, (8) 4X294 and (8) 4X839 Pigtails, (8) 5X424, (8) 5X425, and (8) 5X426 ¼" Female Quick Disconnects, Crimping Tool, and Plastic Case	2W521
214	Non-Insulated	4X276, 4X280, 4X283, 4X286, 4X264, 4X265, 4X292, 4X293, 4X423, 4X290 Connectors, 4X316 Crimping Tool, and Plastic Case	4X257
Panduit			
147	Assortment	(18) PV18-6F and (18) PV14-8F Vinyl Fork Terminals, (18) PV18-8R, (18) PV14-10R, (10) PV10-8R, and (10) PV10-10R Vinyl Ring Terminals, (10) BSV18X, (10) BSV14X, and (10) BSV10X Vinyl Butt Splices, (10) DV18-250B and (10) DV14-188B Vinyl Disconnects, (5) JN418-212 Nylon Wire Joints, CT-160 Crimping Tool, and Plastic Box	39CA62
160	Assortment	(20) PV18-6F and (20) PV14-8F Vinyl Fork Terminals, (20) PV18-8R, (20) PV14-10R, (10) PV10-8R, and (10) PV10-10R Vinyl Ring Terminals, (10) DNF14-250 and (10) DNF18-250 Nylon Disconnects, (10) BSV18X, (10) BSV14X, and (10) BSV10X Vinyl Butt Splices, (10) JN418-212 Nylon Wire Joints, and Plastic Box	39CA59
1177	Assortment	Steel Kit Box, Installation Tool Cable Ties, (100) Cable Ties Terminals, (100) PN14-610R, PN18-610R Multi-Stud Terminals, (100) PN18-6LF, PN14-8LF Locking Fork Terminals, (50) PN10-10LF Locking Fork Terminals, (100) PN18-8F Fork Terminals, (100) PN14-10R Ring Terminals, (50) PN10-10R Ring Terminals Disconnects, (100) DNF18-250, DNF14-250 Disconnects, (50) DV10-250 Disconnects Splices, (50) BSN18, BSN14 Butt Splices, (25) BSN10 Butt Splices Marking System, PMD-0-9 Marking Dispenser and Tape, (100) MP150 Marker Tags, PX-0 Marker	436M07
Power First			
145	Nylon Insulated	(16) 4FRK7, (16) 4FRK8, (16) 4FRK9, (16) 4FRH1, (16) 4FRK4, (24) 4FRK5, (16) 4FRK6, (24) 4FRJ3 Connectors and Crimping Tool	5WHH3
194	Vinyl Insulated	(12) 4FRH5, (12) 4FRH6, (12) 4FRH7, (8) 4FRH8, (12) 4FRH2, (12) 4FRH3, (12) 4FRH4, (12) 4FRJ2, (11) 4FRH9, (10) 4FRJ1, (8) 4FRH1, (8) 4FRJ3, (8) 4FRE5, (12) 4FRE2, (8) 4FRL1, (12) 4FRC8, (12) 5WHD6, (12) 4FRD3 Connectors and Crimping Tool	5UGK5
270	Nylon Insulated	(15) 24C782, (15) 24C726, (15) 24C744, (15) 24C736, (15) 24C852, (15) 24C707, (15) 24C787, (15) 24C776, (15) 24C711, (15) 24C728, (15) 24C765, (15) 24C762, (15) 24C853, (15) 24C747, (15) 24C758, (15) 24C727, (15) 24C708, (15) 24C854, and JD-1021 Crimping Tool	24C971
270	Vinyl Insulated	270 Terminals, JD-1021 Crimping Tool	24C972
270	Non-Insulated	270 Terminals, JD-1021 Crimping Tool	24C973
282	Non-Insulated	(18) 4FRG3, (18) 4FRG4, (36) 4FRG5, (34) 4FRG6, (18) 4FRF8, (18) 4FRF9, (18) 5UGK7, (18) 5UGK8, (17) 5UGK9, (18) 4FRG8, (12) 4FRF7, (12) 4FRG7, (12) 4FRG2, (12) 5UGN1, (8) 4FRG1, (12) 5WHE2 Connectors and Crimping Tool	5UGK4

Disconnect Terminals

TE connectivity · POWER 1 FIRST · PANDUIT® · 3M

Insulation Type	Tab Size	Insulation	Seam	Brand	RED 22 to 16 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Female Bullet Disconnect										
Heat Shrink	0.150 in	Full	Brazed	TE Connectivity	10K481 †	25	—	—	—	—
	0.150 in	Full	Brazed	TE Connectivity	10K482 †	1000	—	—	—	—
	0.200 in	Full	Brazed	TE Connectivity	—	—	10K483	25	—	—
	0.200 in	Full	Brazed	TE Connectivity	—	—	10K484	1000	—	—
Female Disconnect										
Vinyl	0.020 in x 0.187 in	Partial	Butted	Power First	5WHC3	100	4FRE3	100	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	4FRE4	100	4FRJ2	100	4FRE5	50
Nylon	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY55 †	100	39AY45	100	—	—
	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY60 †	1000	39AY53	1000	—	—
	0.032 in x 0.250 in	Partial	Brazed	3M	—	—	2DTV4	1000	2JMD3	500
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY56 †	100	39AY47	20	39AY39	50
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY57 †	1000	39AY46	100	39AY38	500
	0.032 in x 0.250 in	Full	Butted	Panduit	—	—	39AY48	1000	—	—
	0.032 in x 0.250 in	Full	Sleeved Barrel	Panduit	—	—	39AY49	50	39AY41	50
	0.032 in x 0.250 in	Full	Sleeved Barrel	Panduit	—	—	39AY50	1000	39AY40	500
	0.032 in x 0.250 in	Full	Brazed	3M	—	—	—	—	2JJW3 ‡	500
	0.032 in x 0.250 in	Full	Brazed	3M	—	—	—	—	2JME2	500
	0.032 in x 0.250 in	Full	Butted	3M	—	—	5X425	100	5X426	50
Heat Shrink	0.020 in x 0.187 in	Full	Brazed	TE Connectivity	10K463 †	25	—	—	—	—
	0.020 in x 0.187 in	Full	Brazed	TE Connectivity	10K464 †	1000	—	—	—	—
	0.032 in x 0.250 in	Full	Brazed	TE Connectivity	10K465 †	25	10K467	25	10K469	25
	0.032 in x 0.250 in	Full	Brazed	TE Connectivity	10K466 †	1000	10K468	1000	10K470	500
	0.032 in x 0.250 in	Full	Butted	Power First	5UGK2	25	5UGK1	25	5UGK0	25
	0.032 in x 0.250 in	Full	Butted	Panduit	—	—	39AY66	25	—	—
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5WHC4	100	5UGL0	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5WHC5	100	5UGK8	100	5UGN7	50
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY35	100	39AY34	50
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY36	1000	39AY33	500
	0.032 in x 0.250 in	None	Brazed	3M	—	—	—	—	2DRJ3	500
Female Flag Disconnect										
Nylon	0.032 in x 0.250 in	Full	Butted	Panduit	39AY64 †	50	39AY62	50	—	—
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY65 †	1000	39AY63	1000	—	—
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5UGN2 †	100	5UGN3	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5UGN1 †	100	5UGK9	100	—	—
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY68	100	—	—
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY69	1000	—	—
Male Bullet Disconnect										
Heat Shrink	0.150 in	Full	Brazed	TE Connectivity	10K477 †	25	—	—	—	—
	0.150 in	Full	Brazed	TE Connectivity	10K478 †	1000	—	—	—	—
	0.200 in	Full	Brazed	TE Connectivity	—	—	10K479	25	—	—
	0.200 in	Full	Brazed	TE Connectivity	—	—	10K480	1000	—	—
Male Disconnect										
Vinyl	0.020 in x 0.187 in	Partial	Butted	Power First	5WHC1	100	5WHC2	100	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	5WHH1	100	4FRE2	100	5WHH2	50
Nylon	0.020 in x 0.187 in	Partial	Brazed	3M	—	—	2DUC8	1000	—	—
	0.020 in x 0.187 in	Full	Brazed	3M	2JMD5 †	1000	—	—	—	—
	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY61 †	100	39AY54	100	39AY44	50
	0.032 in x 0.250 in	Partial	Brazed	3M	—	—	2JLK3	1000	2JMD7	500
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY59 †	1000	39AY52	1000	39AY42	500
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY58 †	50	39AY51	50	39AY43	25
	0.032 in x 0.250 in	Full	Brazed	3M	2DRH7 †	1000	—	—	—	—
Heat Shrink	0.032 in x 0.250 in	Full	Brazed	TE Connectivity	10K471 †	25	10K473	25	—	—
	0.032 in x 0.250 in	Full	Brazed	TE Connectivity	10K472 †	1000	10K474	1000	—	—
	0.032 in x 0.250 in	Full	Butted	Power First	5WHH5	25	5WHH4	25	5UGK3	25
	0.032 in x 0.250 in	Full	Butted	Panduit	—	—	39AY67	25	—	—
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5WHA8	100	5WHC0	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5WHA9	100	5UGK7	100	5UGN6	50
Piggyback Disconnect										
Vinyl	0.032 in x 0.250 in	Partial	Butted	Power First	31A495	50	31A496	50	31A497	50
	0.032 in x 0.250 in	Partial	Butted	Power First	31A492	50	31A493	50	31A494	50
Nylon	0.032 in x 0.250 in	Partial	Brazed	3M	—	—	2JLZ4	1000	—	—
Heat Shrink	0.032 in x 0.250 in	Partial	Butted	Power First	31A498	50	31A499	50	31A501	50
Bare*	0.032 in x 0.250 in	None	Butted	Power First	31A508	100	31A509	100	31A510	100

** Bare terminals are not color coded. † 22 to 18 AWG. ‡ Features interlocked barrel.*



Female Disconnect
Partial Insulation
No. 4FRE4



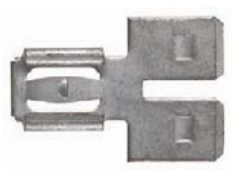
Male Disconnect
Full Heat Shrink Insulation
No. 5WHH5



Male Disconnect
Noninsulated
No. 5WHA8



Piggyback Disconnect
Partial Insulation
No. 31A493



No. 39AY37



No. 5UGN4

POWER 1 FIRST PANDUIT®

Disconnect Terminal Adapters

Description	Brand	Item No.	Pkg. Qty.
¼" Female Disconnect to Right Angle Screw Terminal Adapter	Power First	**5UGN4**	100
3-Way ¼" Adapter, 1 Female to 2 Males	Panduit	**39AY37**	100



No. 24C970



No. 38YU61



No. 4XMR5

POWER 1 FIRST PANDUIT® *Sta-Kon*®

Crimping Tools

For additional crimping tools, see page 846.

Description	Mfr. Model	Item No.
Power First		
6-Pc. Kit, 1 Tool and 5 Dies, Includes Case	24C968	**24C968**
6-Way Tool, 22 to 10 AWG Capacity	24C969	**24C969**
8-Way Tool, 26 to 6 AWG Capacity	24C970	**24C970**
Panduit		
For Use With UL Listed and CSA Certified Supra-Grip™ Disconnects	CT-1015	**1LEL4**
For Use With Panduit Nylon and Vinyl Insulated Terminals, Splices and Disconnects	CT-1550	**38YU61**
For Use With Panduit Insulated Terminals and Splices, Fully Insulated Disconnects, Insulated Parallel Splices and Crimps Panduit Barrel Insulated Disconnects	CT-1525	**38YU62**
For Use With Panduit Non-Insulated Terminals and Disconnects, Panduit Non-Insulated Splices and Compression Lugs	CT-1570	**38YU63**
For Use With Panduit Non-Insulated Tubular Terminals (S series), Copper Code Conductor Lugs and Splices, Copper Flex Conductor Lugs, Dual Rated Aluminum Lugs and Splices and CTAPF10-16 to CTAPF3-12 Copper Taps, Includes 5 - Position, Color Coded Rotating Die	CT-1700	**38YU64**
Sta-Kon		
For Use With A, B, C, Pt Non-Insulated Terminals and Splices, Includes Wire Cutter, Wire Stripper, Screw Cutter and Insulated Grips	WT111M	**3KH45**
For Use With A, B, C: AB, PT, RA,RB, RC Insulated and Non-Insulated Terminal and Splices, Includes Wire Cutter, Wire Stripper, Screw Cutter and Insulated Grips	WT2000	**3KH52**
For Use With Nylon and Vinyl, Type RA, RB, RC Insulated Terminals, Disconnects, and Splices, Includes Color-Coded Die Nests, Die Embossment, Terminal Locator	ERG4001	**4XMR5**



Standard
No. 5UGN9



Locking
No. 4FRD3



Flanged
No. 5UGL1



Block
No. 4FRD2

POWER 1 FIRST PANDUIT® 3M TE connectivity

Fork Terminals

Insulation Type	Stud Size	Seam	Brand	RED 22 to 16 AWG Item No.	RED 22 to 16 AWG Pkg. Qty.	BLUE 16 to 14 AWG Item No.	BLUE 16 to 14 AWG Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	YELLOW 12 to 10 AWG Pkg. Qty.
Standard									
Vinyl	#6	Butted	Power First	**5WHE4**	100	**5WHE7**	100	**5UGN9**	50
	#8	Butted	Power First	**5WHE5**	100	**5WHE8**	100	**5WHE9**	50
	#10	Butted	Power First	**5WHE6**	100	**4FRH4**	100	**4FRL1**	50
Nylon	#6	Grip Sleeved	Panduit	**39AZ78** †	100	**39AZ68** ‡	100	**39AZ54**	50
	#6	Grip Sleeved	Panduit	**39AZ79** †	1000	—	—	—	—
	#6	Brazed	3M	**3RWJ9** †	100	**3RWK1**	100	**3RWK2**	50
	#8	Grip Sleeved	Panduit	**39AZ82** †	100	**39AZ71** ‡	100	**39AZ57**	50
	#8	Grip Sleeved	Panduit	—	—	—	—	**39AZ56**	500
	#8	Brazed	3M	**3RWK3** †	100	**3RWK4**	100	**3RWK5**	50
	#10	Grip Sleeved	Panduit	**39AZ74** †	100	**39AZ60** ‡	100	**39AZ45**	50
	#10	Brazed	3M	**3RWK6** †	100	**3RWK7**	100	**3RWK8**	50
	¼"	Grip Sleeved	Panduit	—	—	**39AZ63** ‡	100	**39AZ49**	50
Heat Shrink	#6	Brazed	Power First	**5UGJ7**	25	**5WHJ5**	25	—	—
	#8	Brazed	TE Connectivity	**10K450** †	1000	—	—	—	—
	#8	Brazed	TE Connectivity	**10K449** †	6	**10K451**	25	**10K453**	25
	#8	Brazed	TE Connectivity	**10K448** †	25	**10K452**	1000	**10K454**	500
	#8	Brazed	Power First	**5UGJ8**	25	**4FRF6**	25	**5WHJ2**	25
	#10	Brazed	TE Connectivity	—	—	**10K456**	5	**10K459**	5
	#10	Brazed	TE Connectivity	—	—	**10K455**	25	**10K458**	25
	#10	Brazed	TE Connectivity	—	—	**10K457**	1000	**10K460**	500
	#10	Brazed	Power First	**5UGJ9**	25	**5WHJ6**	25	**5WHJ3**	25
	¼"	Brazed	Power First	—	—	**5UGJ6**	25	**5WHJ4**	25
Bare*	#6	Butted	Power First	**5WHD8**	100	**5WHE1**	100	**5UGP0**	50
	#6	Brazed	Panduit	**39AZ15**	1000	**39AZ06** ‡	100	—	—
	#8	Butted	Power First	**5WHD9**	100	**5WHE2**	100	**5WHE3**	50
	#8	Brazed	Panduit	—	—	**39AZ09** ‡	100	**39AY96**	50
	#8	Brazed	Panduit	—	—	**39AZ10** ‡	1000	—	—
	#8	Brazed	3M	—	—	**1DMC4**	100	**1DMC5**	50
	#10	Butted	Power First	**5WHE0**	100	**4FRF9**	100	**4FRG1**	50
	#10	Brazed	Panduit	—	—	**39AY99**	100	**39AY86**	50
	#10	Brazed	3M	—	—	**4X265**	100	**4X266**	50
Locking									
Vinyl	#6	Butted	Power First	**4FRD3**	100	**4FRD5**	100	**5UGN8**	50
	#8	Butted	Power First	**5WHD5**	100	**5WHD6**	100	**5WHD7**	50
	#10	Butted	Power First	**4FRD4**	100	**4FRD6**	100	**4FRD7**	50
	¼"	Butted	Power First	—	—	—	—	**4FRD8**	50
Nylon	#6	Brazed	3M	**5HE46** †	100	**5HE48**	100	**3NLW5**	50
	#8	Brazed	3M	**3RWJ5** †	100	**3RWJ6**	100	**3RWJ7**	50
	#10	Brazed	3M	**5HE47** †	100	**5HE49**	100	**5HE50**	50
	¼"	Brazed	3M	—	—	**3RWJ8**	100	**5HE51**	50
Bare*	#6	Butted	Power First	**5WHC6**	100	**5WHC9**	100	—	—
	#8	Butted	Power First	**5WHC7**	100	**5WHD0**	100	**5WHD2**	50
	#10	Butted	Power First	**5WHC8**	100	**5WHD1**	100	**5WHD3**	50
	¼"	Butted	Power First	—	—	—	—	**5WHD4**	50
Flanged									
Vinyl	#6	Butted	Power First	**5UGL1**	100	—	—	**24C950**	50
	#10	Butted	Power First	**5UGL2**	100	**4FRJ4**	100	—	—
Block									
Vinyl	#6	Butted	Power First	**4FRH2**	100	**4FRH3**	100	—	—
	#8	Butted	Power First	**5WHF5**	100	**5WHF6**	100	**5WHF8**	50
	#10	Butted	Power First	**4FRD2**	100	**5WHF7**	100	**5WHF9**	50
Nylon	#6	Brazed	3M	**5HE52** †	100	**5HE54**	100	—	—
	#8	Brazed	3M	**3RWK9** †	100	**3RWL1**	100	**3RWL2**	50
	#10	Brazed	3M	**5HE53** †	100	**5HE55**	100	**5HE56**	50
Bare*	#6	Brazed	Power First	**4FRF7**	100	—	—	—	—
	#6	Brazed	3M	**4X260** †	100	**4X264**	100	**3NLV1**	50
	#8	Brazed	Power First	—	—	**5WHF1**	100	—	—
	#8	Brazed	3M	**1DMD3** †	100	**1DMD4**	100	**1DMD6**	50
	#10	Brazed	Power First	**5UGK6**	100	**5WHF2**	100	—	—
	#10	Brazed	3M	**4X262** †	100	**1DMD5**	100	**1DMD7**	50

** Bare terminals are not color coded. † 22 to 18 AWG. ‡ 18 to 14 AWG.*

Ring Terminals

Stud Size	Seam	Brand	RED 22 to 16 AWG Item No.	RED 22 to 16 AWG Pkg. Qty.	BLUE 16 to 14 AWG Item No.	BLUE 16 to 14 AWG Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	YELLOW 12 to 10 AWG Pkg. Qty.
Vinyl Insulation								
#6	Butted	Power First	—	—	4FRH6	100	5UGP1	50
#8	Butted	Power First	5WHG3	100	5WHG4	100	5WHG5	50
#10	Butted	Power First	4FRH5	100	4FRH7	100	4FRH8	50
Nylon Insulation								
#6	Grip Sleeved	Panduit	39AZ80 #	100	39AZ69 ‡	100	39AZ55	50
#6	Grip Sleeved	Panduit	39AZ81 #	1000	39AZ70 ‡	1000	—	—
#6	Brazed	3M	5HE57	100	5HE59	100	1DMG5	50
#8	Grip Sleeved	Panduit	39AZ84 #	100	39AZ72 ‡	100	39AZ59	50
#8	Grip Sleeved	Panduit	39AZ85 #	1000	39AZ73 ‡	1000	39AZ58	500
#8	Brazed	3M	3RWL3	100	3RWL4	100	3RWL5	50
#10	Grip Sleeved	Panduit	39AZ75 #	100	39AZ61 ‡	100	39AZ47	50
#10	Grip Sleeved	Panduit	39AZ76 #	1000	39AZ62 ‡	1000	39AZ46	500
#10	Butted	3M	—	—	—	—	5HE61	50
#10	Brazed	3M	5HE58	100	5HE60	100	—	—
¼"	Grip Sleeved	Panduit	39AZ77 #	100	39AZ64 ‡	100	39AZ51	50
¼"	Grip Sleeved	Panduit	—	—	39AZ65 ‡	1000	39AZ50	500
¼"	Brazed	3M	3RWL6	100	3RWL7	100	3RWL8	50
5/16"	Grip Sleeved	Panduit	—	—	39AZ67 ‡	100	39AZ53	50
⅜"	Grip Sleeved	Panduit	—	—	39AZ66 ‡	50	39AZ52	50
½"	Grip Sleeved	Panduit	—	—	—	—	39AZ48	25
Heat Shrink Insulation								
#6	Brazed	Power First	5WHH9	25	5WHH6	25	—	—
#6	Brazed	Panduit	—	—	39AZ44	25	—	—
#8	Brazed	TE Connectivity	10K416	1000	10K418	1000	10K420	500
#8	Brazed	TE Connectivity	10K415	25	10K417	25	10K419	25
#8	Butted	Power First	—	—	—	—	5UGN5	25
#8	Brazed	Power First	5WHJ0	25	4FRF3	25	—	—
#10	Brazed	TE Connectivity	10K423	1000	10K426	1000	10K429	500
#10	Brazed	TE Connectivity	10K421	25	10K424	25	10K427	25
#10	Brazed	Power First	5WHJ1	25	4FRF4	25	4FRE9	25
#10	Brazed	Panduit	—	—	—	—	39AZ42	20
¼"	Brazed	TE Connectivity	10K431	1000	10K433	1000	10K435	500
¼"	Brazed	TE Connectivity	10K430	25	10K432	25	10K434	25
¼"	Brazed	Power First	—	—	4FRF5	25	4FRF1	25
5/16"	Brazed	TE Connectivity	10K437	1000	10K439	1000	10K441	500
5/16"	Brazed	TE Connectivity	10K436	25	10K438	25	10K440	25
5/16"	Brazed	Power First	—	—	5WHH8	25	—	—
⅜"	Brazed	TE Connectivity	10K442	25	10K444	25	10K446	25
⅜"	Brazed	TE Connectivity	10K443	1000	10K445	1000	10K447	500
⅜"	Brazed	Power First	—	—	5WHH7	25	4FRF2	25
Bare*								
#6	Butted	Power First	4FRG2	100	4FRG4	100	5UGP2	50
#6	Brazed	Panduit	39AZ17	1000	39AZ08 ‡	1000	—	—
#6	Brazed	Panduit	39AZ16	100	39AZ07 ‡	100	39AY95 †	500
#6	Brazed	3M	4X274	100	4X280	100	—	—
#8	Butted	Power First	5WHG0	100	5WHG1	100	5WHG2	50
#8	Brazed	Panduit	39AZ19	1000	39AZ12 ‡	1000	39AY97 †	500
#8	Brazed	Panduit	39AZ18	100	39AZ11 ‡	100	39AY98 †	50
#10	Butted	Power First	4FRG3	100	4FRG5	100	4FRG6	50
#10	Brazed	Panduit	39AZ13	100	39AZ01 ‡	100	39AY88 †	50
#10	Brazed	Panduit	39AZ14	1000	39AZ02 ‡	1000	39AY87 †	500
#10	Brazed	3M	—	—	—	—	4X286	50
¼"	Brazed	Panduit	—	—	39AZ04 ‡	1000	39AY90 †	500
¼"	Brazed	Panduit	—	—	39AZ03 ‡	100	39AY91 †	50
5/16"	Brazed	Panduit	—	—	39AZ05 ‡	100	39AY94 †	50
⅜"	Brazed	Panduit	—	—	—	—	39AY92 †	500
⅜"	Brazed	Panduit	—	—	—	—	39AY93 †	50
½"	Brazed	Panduit	—	—	—	—	39AY89 †	50

Insulation Type	Stud Size	Seam	Brand	RED 8 AWG Item No.	RED 8 AWG Pkg. Qty.	BLUE 6 AWG Item No.	BLUE 6 AWG Pkg. Qty.	YELLOW 4 AWG Item No.	YELLOW 4 AWG Pkg. Qty.
Large Gauge Ring Terminals									
Vinyl	¼"	Brazed	Power First	4FRC9	25	4FRD1	20	—	—
	⅜"	Brazed	Power First	5WHA6	25	5WHG7	20	5WHA7	20
Nylon	¼"	Brazed	3M	5ZNR1	10	5ZNR3	10	—	—
	⅜"	Brazed	3M	5ZNR2	10	5ZNR8	10	5ZNR4	10
Bare*	#10	Brazed	Panduit	39AZ36	25	39AZ27	20	—	—
	#10	Brazed	Panduit	39AZ37	200	39AZ28	200	—	—
	¼"	Brazed	Power First	4FRL2	25	4FRL3	20	—	—
	¼"	Brazed	Panduit	39AZ38	25	39AZ30	20	39AZ21	20
	¼"	Brazed	Panduit	39AZ39	200	39AZ31	200	39AZ22	200
	¼"	Brazed	3M	5ZNT0	10	5ZNT1	10	—	—
	5/16"	Brazed	Panduit	39AZ41	25	39AZ34	20	39AZ25	20
	5/16"	Brazed	Panduit	—	—	39AZ35	200	39AZ26	200
	⅜"	Brazed	Power First	4FRC7	25	5WHG6	20	4FRL4	20
	⅜"	Brazed	Panduit	—	—	39AZ32	20	39AZ23	20
	⅜"	Brazed	Panduit	39AZ40	25	39AZ33	200	39AZ24	200
	⅜"	Brazed	3M	5ZNR0	10	5ZNR7	10	5ZNT2	10
	½"	Brazed	Panduit	—	—	39AZ29	20	—	—

** Bare terminals are not color coded. † 22 to 18 AWG. ‡ 18 to 14 AWG. # 14 to 10 AWG.*



Vinyl Insulated
No. 4FRH6



Nylon Insulated
No. 5HE60



Heat Shrink
No. 10K415



Noninsulated
No. 5WHG0



Large Gauge
No. 39AZ21

High-Temperature, Bare Ring Terminals

Max. temp.: 1200°F. Crimp with tool No. 4LV85 sold separately.

Stud Size	20 to 18 AWG Item No.	20 to 18 AWG Pkg. Qty.	16 to 14 AWG Item No.	16 to 14 AWG Pkg. Qty.	12 to 10 AWG Item No.	12 to 10 AWG Pkg. Qty.
#8	3VRW8	1000	3VRX1	100	3VRX2	50
#10	3KF93	100	3KF92	100	3KF91	50



No. 3KF93



Nylon Insulated
No. 5HE62



Noninsulated
No. 4FRG7



Vinyl Insulated
No. 4FRL5



Vinyl Insulated Step Down
No. 5UGV0

Butt Splice Connectors

POWER 1 FIRST | Sta-Kon® | PANDUIT® | 3M | TE connectivity

Insulation Type	Seam	Brand	RED 22 to 16 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Butt Splice Connectors								
Vinyl	Butted	Power First	**4FRH9**	100	**4FRJ1**	100	**4FRL5**	50
Nylon	Overlapped	Sta-Kon	**3KF22** †	100	**3KF23**	100	**3KF24**	50
Nylon	Brazed	Panduit	**39AY25** †	100	**39AY23**	100	**39AY22**	50
Nylon	Brazed	Panduit	**39AY26** †	1000	**39AY24**	1000	**39AY21**	500
Nylon	Brazed	3M	**5HE62** †	100	**5HE63**	100	**5HE64**	50
Heat Shrink	Brazed	TE Connectivity	**10K499** †	1000	**10K503**	1000	**10K506**	500
Heat Shrink	Brazed	TE Connectivity	**10K498** †	25	**10K501**	25	**10K504**	25
Heat Shrink	Soldered	TE Connectivity	**10K486** †	25	**10K489**	25	**10K492**	25
Heat Shrink	Soldered	TE Connectivity	**10K487** †	100	**10K490**	100	**10K493**	100
Heat Shrink	Butted	Power First	**4FRE8**	25	**4FRE7**	25	**4FRE6**	25
Heat Shrink	Seamless	Panduit	**39AY20** †	25	**39AY19**	25	**39AY18**	20
Bare*	Butted	Power First	**4FRG7**	100	**4FRG8**	100	**4FRG9**	50
Bare*	Brazed	Panduit	**39AY17** †	100	**39AY15**	100	**39AY14**	50
Bare*	Brazed	Panduit	—	—	**39AY16**	1000	**39AY13**	500

Insulation Type	Seam	Brand	8 AWG Item No.	Pkg. Qty.	6 AWG Item No.	Pkg. Qty.	4 AWG Item No.	Pkg. Qty.
Large Gauge Butt Splice Connectors								
Vinyl	Butted	Power First	**5WHG8**	25	**4FRD9**	20	**4FRE1**	20

Insulation Type	Seam	Brand	16 to 14 AWG and 22 to 16 AWG Item No.	Pkg. Qty.	12 to 10 AWG and 16 to 14 AWG Item No.	Pkg. Qty.	12 to 10 AWG and 8 AWG Item No.	Pkg. Qty.
Step Down Butt Splice Connectors								
Heat Shrink	Butted	Power First	**5UGV1**	50	**5UGV2**	50	**5UGV3**	25
Vinyl	Butted	Power First	**5UGU8**	100	**5UGU9**	100	**5UGV0**	50

**** Bare terminals are not color coded. † 22 to 18 AWG.***



No.
5UGP3



No.
10K475



No.
3RWN1

Pin Terminals

POWER 1 FIRST | 3M | PANDUIT® | TE connectivity

Insulation Type	Seam	Brand	RED 22 to 18 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Vinyl	Brazed	Power First	**5UGP3**	100	—	—	—	—
Vinyl	Butted	Power First	—	—	**5UGP4**	100	**5UGP5**	50
Nylon	Brazed	3M	**3RWL9**	100	**3RWN1**	100	**3RWN2**	50
Heat Shrink	Brazed	TE Connectivity	**10K475**	25	—	—	—	—
Heat Shrink	Brazed	TE Connectivity	**10K476**	1000	—	—	—	—
Bare*	Butted	Power First	**5UGP6**	100	**5UGP7**	100	**5UGP8**	50
Bare*	Brazed	Panduit	**39AZ20**	100	—	—	—	—

**** Bare terminals are not color coded.***



Type FTD

Pan-Term® Ferrules

PANDUIT®

Designed with seamless barrel to contain loose wire strands for superior terminations. These ferrules ease insertion of wire into terminal block, and are suitable for limited-space panel applications. Type FSD and FTD ferrules feature polypropylene insulation housing and funnel entry for faster insertion and lower installed cost. Meet DIN standards for wire containment. UL Listed.

Wire Range	Insertion Length	Insulation Color	Mfr. Model	Item No.	Pkg. Qty.
Type F, Bare, Max. Temp. 302°F					
16 AWG	13/32 in	Bare	F78-10-M	**39AX42**	1000
14 AWG	13/32 in	Bare	F80-10-MG	**39AX43**	1000
14 AWG	15/32 in	Bare	F80-12-M	**39AX44**	1000
10 AWG	15/32 in	Bare	F82-12-M	**39AX45**	1000
10 AWG	19/32 in	Bare	F82-15-MG	**39AX46**	1000
8 AWG	15/32 in	Bare	F83-12-D	**39AX47**	500
8 AWG	19/32 in	Bare	F83-15-DG	**39AX48**	500
6 AWG	15/32 in	Bare	F84-12-TLG	**39AX49**	250
6 AWG	19/32 in	Bare	F84-15-TL	**39AX50**	250
4 AWG	23/32 in	Bare	F85-18-C	**39AX51**	100
1 AWG	31/32 in	Bare	F87-25-C	**39AX52**	100
Type FSD, Polypropylene Insulation, Max. Temp. 221°F					
26 AWG	15/32 in	Gray	FSD72-8-D	**39AX53**	500
24 AWG	3/8 in	Yellow	FSD73-6-D	**39AX54**	500
24 AWG	15/32 in	Yellow	FSD73-8-D	**39AX55**	500
22 AWG	3/8 in	Turquoise	FSD74-6-D	**39AX56**	500
22 AWG	15/32 in	Turquoise	FSD74-8-D	**39AX57**	500
20 AWG	17/32 in	White	FSD75-10-D	**39AX58**	500
20 AWG	3/8 in	White	FSD75-6-D	**39AX59**	500
22 to 20 AWG	15/32 in	White	FSD75-8-D	**39AX60**	500
20 AWG	13/32 in	White	FSD75-8-DSL10	**39AX61**	500
18 AWG	17/32 in	Gray	FSD76-10-D	**39AX62**	500
18 AWG	15/32 in	Gray	FSD76-8-D	**39AX63**	500
18 AWG	17/32 in	Red	FSD77-10-D	**39AX64**	500
18 AWG	3/8 in	Red	FSD77-12-D	**39AX65**	500
18 AWG	3/8 in	Red	FSD77-6-D	**39AX66**	500
18 AWG	15/32 in	Red	FSD77-8-D	**39AX67**	500
18 AWG	13/32 in	Red	FSD77-8-DSL2	**39AX68**	500
16 AWG	17/32 in	Black	FSD78-10-D	**39AX69**	500
16 AWG	5/8 in	Black	FSD78-12-D	**39AX70**	500
16 AWG	7/8 in	Black	FSD78-18-D	**39AX71**	500
16 AWG	3/8 in	Black	FSD78-6-D	**39AX72**	500
16 AWG	5/16 in	Black	FSD78-8-D	**39AX73**	500
16 AWG	13/32 in	Black	FSD78-8-DSL0	**39AX74**	500
14 AWG	15/32 in	Yellow	FSD79-8-D	**39AX75**	500
14 AWG	5/8 in	Blue	FSD80-12-D	**39AX76**	500
14 AWG	7/8 in	Blue	FSD80-18-D	**39AX77**	500
14 AWG	15/32 in	Blue	FSD80-8-D	**39AX78**	500
14 AWG	13/32 in	Blue	FSD80-8-DSL6	**39AX79**	500
12 AWG	17/32 in	Gray	FSD81-10-D	**39AX80**	500
12 AWG	5/8 in	Gray	FSD81-12-C	**39AX81**	100
12 AWG	7/8 in	Gray	FSD81-18-C	**39AX82**	100
10 AWG	5/8 in	Yellow	FSD82-12-C	**39AX83**	100
10 AWG	7/8 in	Yellow	FSD82-18-C	**39AX84**	100
8 AWG	5/8 in	Red	FSD83-12-C	**39AX85**	100
8 AWG	7/8 in	Red	FSD83-18-C	**39AX86**	100
6 AWG	5/8 in	Blue	FSD84-12-C	**39AX87**	100
6 AWG	7/8 in	Blue	FSD84-18-C	**39AX88**	100
2 AWG	3/4 in	Red	FSD86-16-L	**39AX89**	50
Type FTD, Twin Wire, Polypropylene Insulation, Max. Temp. 221°F					
20 AWG	7/16 in	White	FTD75-8-D	**39AX90**	500
18 AWG	9/16 in	Gray	FTD76-10-D	**39AX91**	500
18 AWG	7/16 in	Gray	FTD76-8-D	**39AX92**	500
18 AWG	9/16 in	Red	FTD77-10-D	**39AX93**	500
18 AWG	7/16 in	Red	FTD77-8-D	**39AX94**	500
16 AWG	21/32 in	Black	FTD78-12-D	**39AX95**	500
16 AWG	7/16 in	Black	FTD78-8-D	**39AX96**	500
14 AWG	9/16 in	Blue	FTD80-10-TL	**39AX97**	250
14 AWG	23/32 in	Blue	FTD80-13-TL	**39AX98**	250



No. 39AY84



No. 4X839

POWER 1 FIRST | PANDUIT® | 3M | IDEAL®

Closed End Connectors

Preinsulated nylon connectors with beveled openings allows wire to ease into entry and fit into tight locations. Flared skirt helps protect against turned back strands.

Min. Wire Combination	Max. Wire Combination	Brand	Mfr. Model	Item No.	Pkg. Qty.
300V Max. Voltage					
(2) 14 AWG	(1) 18 AWG with (3) 20 AWG (1) 22 AWG	Power First	4FRJ3	**4FRJ3**	50
(2) 22 AWG	(1)18 AWG with (3) 22 AWG	Power First	4FRH1	**4FRH1**	100
600V Max. Voltage					
(1) 22 AWG with (1) 12 AWG	(3) 16 AWG	3M	S-31-A	**4X839**	50
(1) 22 AWG with (1) 18 AWG	(1) 16 AWG with (1) 12 AWG	IDEAL	30-247G	**6LU60**	100
(2) 12 AWG	(4) 18 AWG	Panduit	JN418-212-C	**39AY84**	100
(2) 12 AWG	(4) 18 AWG	Panduit	JN418-212-D	**39AY85**	500
(2) 22 AWG	(3) 20 AWG	3M	S-11-A(BOXED)	**4X294**	100
(4) 16 AWG	(1) 12 AWG with (4) 14 AWG	IDEAL	30-248G	**6LU61**	100
(4) 16 AWG	(1) 12 AWG with (4) 14 AWG	IDEAL	30-148	**6YH46**	1000



Set Screw Connectors

Solid brass sleeves helps eliminate twisting and restripping. Flame-retardant shell withstands temperatures up to 305°F. For applications where vibration may be a problem.

Max. Wire Combination	Max. Voltage	STANDARD PACKAGING Mfr. Model	Item No.	Pkg. Qty.	BULK PACKAGING Mfr. Model	Item No.	Pkg. Qty.
Min. 1 #20 & 1 #22 - Max. 2 #14 & 1 #16	300	30-1222G	**6LU65**	10	30-210	**6VG13**	100
Min. 1 #14 & 1 #20 - Max. 3 #14 & 2 #18	600	30-1293G	**6LU63**	10	30-211	**6VG14**	100
Min. 1 #16 & 3 #18 - Max. 2 #10 & 1 #12	600	30-1294G	**6LU64**	10	30-222	**6YH50**	100
Set Screw Holderr for 600V Connectors		K-2422	**6YJ05**	1	—	—	—


No. 45TM92


No. 10K059

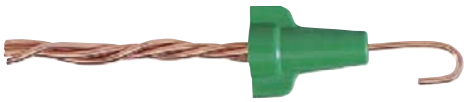

No. 1DLY8


No. 1DLZ1

Wide Range Wing Style Wire Connectors

Easy-to-twist connectors provide secure hold. They offer exceptional wide wire-range and capacity. Designed for solid or stranded copper wire. UL Listed and CSA Certified.

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Brand	Mfr. Model	Item No.	Pkg. Qty.
Orange	(2) 22 AWG	(3) 12 AWG	600VAC	IDEAL	30-340	**45TM92**	100
Red/Yellow	(2) 18 AWG	(4) 10 AWG	600VAC	IDEAL	30-244J	**10K059**	250
Blue/Orange	(2) 22 AWG	(3) 12 AWG	600VAC	3M	O/B+POUCH	**1DLY8**	100
Blue/Orange	(2) 22 AWG	(3) 12 AWG	600VAC	3M	O/B+Jug	**1DLZ4**	500
Tan/Red	(2) 18 AWG	(5) 12 AWG	600VAC	3M	T/R+BOX	**1DLY6**	100
Blue/Gray	(4) 14 AWG	(2) 6 AWG to (3) 8 AWG	600VAC	3M	B/G+BOX	**1DLZ1**	50


Wing-Nut® Grounding

Grounding Wire Connectors

Easily holds in fingertips to form a secure grip when connecting wires for grounding or bonding. No pretwisting required. Fixed, square-wire spring threads itself creating secure connections. Contoured wing offers maximum torque. Deep skirt helps protect against flash-over. UL Listed and CSA Certified. No. 6HY42 meets UL 94V-2.

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Brand	Series	Item No.	Pkg. Qty.
Green	(2) 14 AWG	(5) 12 AWG	600VAC	Buchanan	WGR	**6VG21**	50
Green	(2) 14 AWG	(4) 12 AWG	600VAC	IDEAL	92	**6YH42**	100


Grounding Pigtail
No. 4FA29


Pigtail Connector
No. 10K069

Grounding Tails and Pigtails

Solid and stranded pigtail lead wires are convenient for device grounding applications. Flexible lead wire tucks easily into box. Fork terminal attaches easily to grounding screw.

Description	Color	Item No.	Pkg. Qty.
Grounding Pigtail			
8" 12 AWG Solid w/Loop and Ground Screw to Stripped End	Green	**4FA29**	50
8" 12 AWG Solid w/Loop and Ground Screw to Stripped End	Green	**10K060**	100
8 in 12 AWG Stranded w/#10 Ring and Ground Screw to #10 Fork	Green	**10K061**	25
8 in 12 AWG Stranded w/#10 Ring and Ground Screw to #10 Fork	Green	**10K062**	50
12 AWG 2-Wire Stranded w/#10 Ring and Ground Screw to Stripped End and #10 Fork	Green	**10K064**	25
12 AWG 2-Wire Stranded w/#10 Ring and Ground Screw to (2) #10 Fork	Green	**10K065**	25
12 AWG 3-Wire Stranded w/#10 Ring and Ground Screw to Stripped End and (2) #10 Fork	Green	**10K066**	25
Grounding Screw			
Ground Screw, Thread Forming, Combination Hex Head	Green	**10K067**	100
Pigtail Connector			
8" 12 AWG Stranded w/#10 Fork to Stripped End	Black	**10K069**	25
8" 12 AWG Stranded w/#10 Fork to Stripped End	White	**10K070**	25
8" 12 AWG Stranded w/#10 Fork to Stripped End	Green	**10K071**	25

General Application Wire Connectors

Twist-on connectors provide fast installation, no pre-twisting required. Quick and easy way to match the right connector to the size of solid or stranded wire. Sturdy grip gives leverage for easy application by hand or with tool. Fixed, wire spring creates its own threads as it draws the conductors all the way into the connector preventing any disconnection. Shells are designed to withstand temperatures up to 221° F. UL Listed and CSA Certified.

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Brand	Series	STANDARD PACKAGING Item No.	Pkg. Qty.	BULK PACKAGING Item No.	Pkg. Qty.
Basic Style									
Blue	(2) 22 AWG	(3) 16 AWG	300VAC	IDEAL	72B	**6YH35**	100	—	—
Blue	(2) 22 AWG	(3) 16 AWG	300VAC	Power First	P2	**5UYJ3**	100	—	—
Gray	(2) 22 AWG Stranded	(2) 16 AWG	300VAC	IDEAL	71B	**6YH34**	100	—	—
Gray	(2) 22 AWG	(1) 16 AWG with (1) 18AWG with (1) 20 AWG	300VAC	Power First	P1	**5UYJ2**	100	—	—
Orange	(1) 18 AWG with (1) 20 AWG	(2) 14 AWG	600VAC	IDEAL	73B	**6YH36**	100	**6LU42**	300
Orange	(1) 18 AWG with (1) 20 AWG	(4) 16 AWG with (1) 20 AWG	600VAC	Power First	P3	**5UYJ4**	100	**5UYH7**	300
Red	(2) 14 AWG	(2) 10 AWG with (2) 12 AWG	600VAC	IDEAL	76B	**6YH38**	100	**6LU44**	150
Red	(3) 18 AWG	(2) 10 AWG Solid with (2) 12 AWG Stranded	600VAC	Power First	P6	**5UYJ6**	100	**5UYH9**	150
Yellow	(3) 20 AWG Solid	(2) 12 AWG with (2) 14 AWG	600VAC	Power First	P4	**5UYJ5**	100	**5UYH8**	175
Yellow	(2) 18 AWG	(4) 14 AWG with (1) 18 AWG	600VAC	IDEAL	74B	**6YH37**	100	**6LU43**	175
Wing Style									
Blue	(2) 10 AWG	(2) 10 AWG with (1) 12 AWG	600VAC	Power First	P17	**5UYH6**	25	—	—
Blue	(3) 12 AWG	(1) 6 AWG with (2) 8 AWG	600VAC	IDEAL	454	**4FA28**	25	—	—
Gray	(3) 14 AWG	(2) 10 AWG with (4) 12 AWG Solid	600VAC	IDEAL	342	**6YH57**	50	—	—
Red	(2) 18 AWG	(4) 10 AWG	600VAC	IDEAL	452	**6YH59**	100	**6LU52**	300
Red	(3) 16 AWG	(5) 12 AWG Solid	600VAC	Power First	P13	**5UYJ8**	100	**5UYJ1**	300
Tan	(3) 22 AWG	(3) 10 AWG	600VAC	IDEAL	341	**6LU48**	150	**10K058**	400
Tan	(2) 20 AWG	(3) 10 AWG Solid	600VAC	Buchanan	WT41	**5VYN0**	100	**5VYN1**	500
Yellow	(3) 18 AWG Solid	(3) 18 AWG with (1) 14 AWG	600VAC	Power First	P11V	**5UYJ7**	100	—	—
Yellow	(2) 18 AWG	(3) 12 AWG	600VAC	IDEAL	451	**6YH58**	100	**6LU51**	225


Basic Style
IDEAL


Basic Style
Power First


Wing Style
IDEAL


Wing Style
Power First





Special Use Wire Connectors

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Series	STANDARD PACKAGING Item No.	STANDARD PACKAGING Pkg. Qty.	BULK PACKAGING Item No.	BULK PACKAGING Pkg. Qty.
Twister® AL/CU								
Purple	(1) 12 AWG Solid with (1) 18 AWG	(1) 10 AWG	600VAC	65	**6YH48**	25	—	—
High Temperature Wire-Nut® (302°F/150°C)								
Black	(2) 22 AWG Stranded	(2) 16 AWG	300VAC	71B	**6VG15**	100	—	—
Black	(2) 22 AWG	(3) 16 AWG	300VAC	72B	**6VG16**	100	—	—
Black	(1) 18 AWG with (1) 20 AWG	(4) 16 AWG with (1) 20 AWG	600VAC	73B	**6VG17**	100	—	—
WeatherProof® Damp/Wet Location, Silicone Filled								
Gray/Orange	(2) 20 AWG	(2) 14 AWG	600VAC	61	**21GR18**	25	**21GR21**	150
Gray/Red	(2) 18 AWG	(3) 10 AWG	600VAC	62	**21GR19**	20	**21GR22**	100
Blue/Gray	(3) 14 AWG	(2) 8 AWG and (1) 10 AWG	600VAC	63	**21GR20**	15	**21GR23**	50
UnderGround® Direct Burial, Silicone Filled								
Gray	(1) 20 AWG with (1) 18 AWG	(1) 10 AWG with (2) 12 AWG	600VAC	60	**21GR24**	25	—	—
Blue/Gray	(1) 20 AWG with (1) to (2) 18 AWG	(1) 10 AWG with (2) 12 AWG to (3) 10 AWG	600VAC	60/64	**21GR25**	10	—	—



2-Port
Single Ballast Fixtures
No. 1TPG6



3-Port
Multi-Ballast Fixtures
No. 4JRK3

Power Plug® Luminaire/Ballast Disconnects

- Max. operating temp.: 105°C (221°F)
- Max. voltage: 600V
- Meet Canadian Electrical Code 30-308(4) standards
- Meet National Electrical Code 410.73(G) standards for nonresidential fluorescent luminaries with ballasts

Push-in technology enables quick connections without the need for tools. Designed for new, retrofit, or OEM lighting installations. Provide safe disconnect of hot and neutral ballast wiring. 2-pc. design allows ballast replacement while minimizing the risk of shock; passes UL 2459 and CSA finger probe requirements. Nylon and copper alloy construction.



No. 20UU63



No. 20UU64

No. of Ports	Color	Wire Size	CHOOSE QUANTITY Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
New Installation or Retrofit								
2	Orange	18 to 12 AWG	**1TPG6**	25	**1TPG8**	75	**1TPG9**	150
3	Orange	18 to 12 AWG	**4JRK3**	20	—	—	**4JRK5**	100
Retrofit								
2	Orange	18 AWG	—	—	—	—	**4JRK6**	100
Twist-On Connector Kits								
Includes: (15) 103, (25) 33 Push-In Wire Connectors, (25) 42 In-Line Wire Connectors, (25) 72B Blue and (25) 73B Orange Twist Wire Connectors, (30) 102, and (50) 182 Luminaire Disconnects							**20UU63**	1
Includes: (100) 72B Blue Twist Wire Connectors, (30) 102 and (50) 182 Luminaire Disconnects, (50) 33 Push-In Wire Connectors, 7-in-1 Screwdriver/Nutdriver and Wire stripper							**20UU64**	1



SpliceLine™ Inline Wire Connectors

Feature crimp-free, push-in design that installs in half the time of traditional butt splices. Perfect for lengthening a short wire in a box or for surface raceway wiring. Easily pass through ½" knockouts. Transparent polycarbonate window allows visual inspection of connection. Check port allows continuity testing.

Color	Max. Wire Combination	BOX OF 100 Item No.	JAR OF 300 Item No.	BOX OF 2500 Item No.
Orange	12-20 Solid, 12-16 Stranded, 14-18 Tin-Bond Stranded	**5VYJ9**	**5VYK1**	**5VYK2**



No. 5EKL2



No. 5EKL3

No. 5EKL4



In-Sure™ Push-In Wire Connectors

- Meet UL 467 for grounding and bonding applications
- Meet UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Max. voltage: 600V

Feature compact size making installations easy. No-twist connection reduces repetitive motion fatigue. Low insertion force allows fast and easy connections. Clear shell gives visual verification of connection. Accepts solid or stranded wire. UL Listed and CSA Certified.

Color	Connector Type	Max. Wire Combination	CHOOSE QUANTITY Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Red	2 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL2**	100	**5VYJ3**	300	**5EKL5**	5000
Orange	3 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL3**	100	**5VYJ4**	250	**5EKL6**	5000
Yellow	4 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL4**	100	**5VYJ5**	200	**5EKL7**	5000
Blue	3 Port	14-10 Solid, 12-10 Stranded (≤19 Strand), 14-10 Tin-Bond Stranded (≤19 Strand) AWG	**5VYJ6**	50	**5VYJ7**	150	—	—

3M POWER 1 FIRST



Inline Tap
No. 1A075



T-Taps
No. 22EW65



Butt Splice
No. 4FE28

Insulation Displacement Connectors

INLINE TAPS

Connectors electrically join a tap wire to a through-run wire. Self-stripping.

T-TAPS

Fully insulated connectors eliminate wire stripping. Connector mates with 0.250" male tabs, making a quick-connect wiring connection.

BUTT SPLICES

Squeeze-shut connectors eliminate stripping and twisting. Insulated connection is sealant-filled with a mineral oil-based grease and flame retardant, to provide a moisture-resistant seal.

DIRECT BURIAL SPLICE CONNECTOR KIT

Designed for splicing underground wire connectors and moisture-sealing 2 or more conductors for remote control circuits in irrigation and landscaping. Insulator tube is prefilled. Splice is reenterable. No crimping tools are required. Kit includes 2 tubes of sealant and 2 connectors. UL Listed for direct burial.

Connector Type	Wire Range (Run)	Max. Insulation Dia.	Max. Temp.	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Inline Taps								
Double U-Element	22 to 16 AWG	0.120"	221°F	Red	3M	558-POUCH	**4YT73**	100
Double U-Element	22 to 16 AWG	0.120"	221°F	Red	3M	557	**4YT79**	100
Single U-Element	22 to 14 AWG	0.110" Tap and 0.145" Run	194°F	Red	3M	905-POUCH	**4YT50**	50
Single U-Element	18 to 16 AWG	0.145"	221°F	Blue	3M	560B BOX	**4YT77** †	100
Single U-Element	18 to 14 AWG	0.145"	221°F	Blue	3M	801	**1A075**	50
Run Tap	12 to 10 AWG	0.145" Tap and 0.190" Run	221°F	Brown	3M	567 BOX	**4YT74** †	100
Single U-Element	12 AWG	0.190"	194°F	Yellow	3M	562 BOX	**4YT69**	100
Run Tap	22 to 16 AWG	3.60mm	221°F	Red	Power First	22EW60	**22EW60**	100
Run Tap	22 to 18 AWG	3.05mm	221°F	Red	Power First	22EW61	**22EW61**	50
Run Tap	18 to 14 AWG	3.50mm	221°F	Blue	Power First	22EW62	**22EW62**	100
Run Tap	12 to 10 AWG	3.50mm Tap and 4.80mm Run	221°F	Brown	Power First	22EW63	**22EW63**	100
T-Taps (¼" Quick-Connect Tab)								
T Tap	22 to 18 AWG	0.150"	221°F	Red	3M	951X-BOTTLE	**4YT71**	50
T Tap	18 to 14 AWG	0.150"	221°F	Blue	3M	952X-BOTTLE	**1A074**	50
T Tap	12 AWG	0.150"	221°F	Yellow	3M	953X-BOTTLE	**4YT72**	50
T Tap	22 to 18 AWG	3.81mm	221°F	Red	Power First	22EW65	**22EW65**	50
T Tap	18 to 14 AWG	3.81mm	221°F	Blue	Power First	22EW66	**22EW66**	50
T Tap	12 AWG	3.81mm	221°F	Yellow	Power First	22EW67	**22EW67**	50
Butt Splices								
Run Tap	20 to 18 AWG	0.150"	221°F	Black	3M	MGC PK25	**4DYW6**	25
Run Tap	20 to 18 AWG	0.150"	221°F	Black	3M	MGC(100/JUG)	**4DYW7**	100
Butt Splice	26 to 19 AWG	0.082"	140°F	Red	Corning	80611327653	**4DYX5**	500
Butt Splice	26 to 19 AWG	0.082"	140°F	Yellow	Corning	80611327869	**4DYX6**	500
Butt Splice	26 to 19 AWG	0.082"	140°F	Red	Corning	80611327596	**4FE27**	100
Butt Splice	26 to 19 AWG	0.082"	140°F	Yellow	Corning	80611326796	**4FE28**	100
Single U-Element	22 to 16 AWG	0.155"	221°F	Black	3M	316-IR BAG	**4FE24**	30
Direct Burial Splice Kit Kit								
—	—	—	221°F	Yellow	3M	DBR/Y-6(KIT)	**10G854**	1
Crimping Tools								
Heavy-Duty	—	—	—	—	Corning	80611141294	**4DYX1**	1

† Includes port window for visual check on tap wire position.

B-Connectors

DOLPHIN

"Funnel Entry Design" ensures high contact integrity for multiple metallic connections; locks in-place with permanent spring compression. High mechanical strength. Flame-retardant PVC insulation provides long, constant service in telecommunications and electrical power applications. UL Listed.



No. 4KEC8

Wire Range (Run)	Max. Insulation Dia.	Max. Temp.	Mfr. Model	WHITE Item No.	WHITE Pkg. Qty.	BLUE, SEALANT FILLED Item No.	BLUE, SEALANT FILLED Pkg. Qty.
26 to 16 AWG	0.194"	221°F	DC-100	**4KEC8**	100	**4KED1**	100
26 to 16 AWG	0.194"	221°F	DC-1000	**4KED2**	1000	**4KEC9**	1000
Crimping Tools							
Ratcheting Action, For Use with Insulated and Noninsulated Terminals and Connectors			DC-4141	**4KEC3**	1	—	—

Thomas&Betts

Motor Pigtail Connectors

- Tin-plated copper
- For 600V, 90°C applications

Quick-connectors provide fast, reliable electric motor changeout without bolting or taping. Snap-together assembly meets or exceeds the electrical and mechanical performance of bolted connections. Constructed with louvered contact bands. Equal body sizes can be mixed and matched. Reusable thermoplastic elastomer insulation boots keep assembly small for tight motor housings. UL Listed and CSA Certified.

Wire Gauge	Color Code	Body Size	FEMALE Item No.	MALE Item No.
Motor Lead Disconnects				
16 to 14 AWG	Blue	0	**1DNX1**	**1DNX2**
16 to 14 AWG	Blue	1	**1DNX3**	**1DNX4**
12 to 10 AWG	Yellow	1	**1DNX5**	**1DNX6**
12 to 10 AWG	Yellow	2	**1DNX7**	**1DNX8**
8 AWG	Red	1	**1DNY9**	**1DNY1**
8 AWG	Red	2	**1DNY2**	**1DNY3**
6 AWG	Blue	1	**1DNY4**	**1DNY5**
6 AWG	Blue	2	**1DNY6**	**1DNY7**
4 AWG	Gray	2	**1DNY8**	**1DNY9**
2 AWG	Brown	2	**1DNZ1**	**1DNZ2**
2 AWG	Brown	3	**1DNZ3**	**1DNZ4**
1 AWG	Green	2	**1DNZ5**	**1DNZ6**
1 AWG	Green	3	**1DNZ7**	**1DNZ8**
1/0	Pink	3	**1DNZ9**	**1DPA1**
2/0	Black	3	**1DPA2**	**1DPA3**
3/0	Orange	3	**1DPA4**	**1DPA5**
4/0	Purple	3	**1DPA6**	**1DPA7**

Body Size	Item No.
Motor Disconnect Boots	
0	**1DPA8**
1	**1DPA9**
2	**1DPB1**
3	**1DPB2**



No. 1DNX1



No. 1DNX2



No. 1DPA8

B-TAP® Insulation Piercing Tap Connectors

CONSTRUCTION PRODUCTS BUCHANAN

- Max. voltage: 600V

Feature breakaway nut for perfect torque; no stripping or taping required. Install safely on energized system. Dual-rated for copper and aluminum. UL Listed and CSA Certified.

Wire Range (Run)	Wire Range (Tap)	Item No.
8 AWG to 1/0 AWG	10 to 2 AWG	**10K073**
4 AWG to 2/0 AWG	14 to 10 AWG	**10K074**
3 AWG to 4/0 AWG	10 to 2 AWG	**10K076**
2 AWG to 4/0 AWG	6 AWG to 2/0 AWG	**10K077**
1/0 AWG to 350 kcmil	1/0 AWG to 350 kcmil	**10K079**
2/0 AWG to 500 kcmil	4 AWG to 4/0 AWG	**10K080**
4/0 AWG to 500 kcmil	1/0 AWG to 350 kcmil	**10K081**
3/0 AWG to 750 kcmil	14 to 10 AWG	**10K082**



No. 10K073



No. 10K079



Burndy Double-Sided Entry, T
No. 22C261



Blackburn Double-Sided Entry, T
No. 1YRL3



Polaris Single-Sided Entry, L
No. 14V953

No. of Ports	Min. Conductor Size	Max. Conductor Size	L	Stud Size	Insulation Material	Mfr. Model	Item No.
Double-Sided Entry, T Insulated Multitap Connectors							
POLARIS							
2	14 AWG	1/0 AWG	3.25 in	3/16 in	Plastisol	ISR-1/0B	**14V967**
	14 AWG	1/0 AWG	3.25 in	3/16 in	Plastisol	ISR-1/0CB	**199XU0**
	6 AWG	250 kcmil	4.0 in	5/16 in	Plastisol	ISR-250B	**14V968**
	6 AWG	350 kcmil	4.47 in	5/16 in	Plastisol	ISR-350B	**14V969**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	ISR-600B	**34UH99**
	6 AWG	600 kcmil	2.34 in	5/16 in	Plastisol	IT-600B	**34UJ01**
	6 AWG	250 kcmil	4.0 in	5/16 in	Plastisol	ISR-250CB	**199XU1**
	6 AWG	350 kcmil	4.47 in	5/16 in	Plastisol	ISR-350CB	**199XU2**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	ISR-600CB	**199XU4**
	4 AWG	500 kcmil	4.62 in	5/16 in	PVC	ISR-500B	**14V970**
	4 AWG	500 kcmil	4.62 in	5/16 in	Plastisol	ISR-500CB	**199XU3**
	1/0 AWG	750 kcmil	7.25 in	5/16 in	Plastisol	ISRH-750C	**199XU5**
3	6 AWG	3/0 AWG	2.65 in	1/4 in	Plastisol	IPLD3/0-3B	**14V973**
	6 AWG	250 kcmil	2.99 in	5/16 in	Plastisol	IPLD250-3B	**14V975**
	6 AWG	350 kcmil	3.52 in	5/16 in	Plastisol	IPLD350-3B	**14V978**
	4 AWG	500 kcmil	4.01 in	5/16 in	Plastisol	IPLD500-3B	**14V981**
4	4 AWG	500 AWG	5.16 in	5/16 in	Plastisol	IPLD500-4B	**14V982**
BURNDY							
2	14 AWG	1/0 AWG	2.91 in	3/16 in	Plastisol	BISR1/0	**22C249**
	14 AWG	2 AWG	2.38 in	5/16 in	Plastisol	BISR2	**22C250**
	14 AWG	2/0 AWG	1.56 in	3/8 in	PVC	1PLD2/02	**22C267**
	14 AWG	1/0 AWG	2.91 in	5/16 in	Plastisol	1PBS1/0	**22C269**
	14 AWG	2 AWG	2.38 in	3/16 in	Plastisol	1PBS2	**22C277**
	10 AWG	250 kcmil	4.01 in	3/16 in	Plastisol	BISR250	**22C247**
	10 AWG	250 kcmil	2.64 in	5/16 in	PVC	BIBD2502	**22C259**
	10 AWG	250 kcmil	4.01 in	5/16 in	Plastisol	1PBS250	**22C268**
	10 AWG	250 kcmil	2.64 in	3/16 in	PVC	1PLD2502	**22C273**
	10 AWG	350 kcmil	4.63 in	5/16 in	Plastisol	1PBS350	**22C283**
	6 AWG	500 kcmil	5.0 in	3/8 in	Plastisol	BISR500	**22C261**
	6 AWG	500 kcmil	5.0 in	1/2 in	Plastisol	1PBS500	**22C280**
	6 AWG	4 AWG	4.3 in	1/8 in	Plastisol	BISR4DB	**22C284**
	4 AWG	600 kcmil	3.0 in	5/16 in	Plastisol	1PLD6002	**22C276**
	2 AWG	1 AWG	6.3 in	5/16 in	Plastisol	BISR1DB	**22C286**
	1/0	3/0 AWG	6.25 in	3/16 in	Plastisol	BISR3/0DB	**22C287**
	4/0	250 kcmil	6.7 in	5/16 in	Plastisol	BISR250DB	**22C285**
3	14 AWG	2/0 AWG	2.19 in	3/16 in	PVC	BIBD2/03	**22C253**
	14 AWG	4 AWG	1.51 in	3/16 in	PVC	BIBD43	**22C263**
	14 AWG	2/0 AWG	2.19 in	5/16 in	PVC	1PLD2/03	**22C271**
	10 AWG	250 kcmil	2.97 in	3/8 in	PVC	BIBD2503	**22C251**
	10 AWG	250 kcmil	2.97 in	3/8 in	PVC	1PLD2503	**22C274**
4	14 AWG	2/0 AWG	2.86 in	5/16 in	PVC	1PLD2/04	**22C282**
	10 AWG	250 kcmil	3.91 in	1/4 in	Plastisol	BIBD2504	**22C258**
BLACKBURN							
2	14 AWG	1/0 AWG	3.5 in	3/16 in	Plastisol	AMTSR10	**1YRL3**
	10 AWG	350 kcmil	4.38 in	5/16 in	PVC	AMTD350105	**1YRK8**
	6 AWG	250 kcmil	4.13 in	5/16 in	Plastisol	AMTSR250	**1YRL4**
	6 AWG	350 kcmil	4.88 in	5/16 in	Plastisol	AMTSR350	**1YRL5**
	6 AWG	500 kcmil	5.0 in	5/16 in	PVC	AMTD50064	**1YRK7**
	6 AWG	500 kcmil	7.5 in	5/16 in	PVC	AMTD50066	**1YRL1**
3	10 AWG	250 kcmil	3.0 in	5/16 in	PVC	AMTD250103	**1YRJ9**
	10 AWG	350 kcmil	3.5 in	3/16 in	PVC	AMTD350103	**1YRK2**
	6 AWG	500 kcmil	3.88 in	3/8 in	PVC	AMTD50063	**1YRK1**
4	10 AWG	250 kcmil	3.88 in	5/16 in	PVC	AMTD250104	**1YRK5**
	10 AWG	350 kcmil	4.5 in	3/16 in	PVC	AMTD350104	**1YRK4**
	4 AWG	500 kcmil	5.5 in	3/8 in	Plastisol	AMTSR500	**1YRL6**
5	10 AWG	250 kcmil	4.63 in	3/8 in	PVC	AMTD250105	**1YRK9**
6	10 AWG	350 kcmil	6.63 in	3/16 in	PVC	AMTD350106	**1YRL2**
Double-Sided Entry, Z Insulated Multitap Connectors							
POLARIS							
2	14 AWG	4 AWG	1.07 in	5/16 in	Plastisol	ITO-4B	**14V960**
	14 AWG	1/0 AWG	1.62 in	3/16 in	Plastisol	ITO-1/0B	**34UJ03**
	14 AWG	1/0 AWG	1.62 in	3/16 in	Plastisol	ITO-1/0CB	**199XV4**
	14 AWG	4 AWG	1.12 in	1/8 in	Plastisol	ITO-4CB	**199XV6**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	ITO-3/0B	**34UJ04**
	6 AWG	250 kcmil	2.12 in	5/16 in	Plastisol	IT-250CB	**199XU7**
	6 AWG	350 kcmil	2.47 in	5/16 in	Plastisol	IT-350CB	**199XU9**
	6 AWG	500 kcmil	2.81 in	5/16 in	Plastisol	IT-500CB	**199XV1**
	6 AWG	600 kcmil	2.34 in	5/16 in	Plastisol	IT-600CB	**199XV2**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	ITO-3/0CB	**199XV5**
	4 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	ITG-3/0B	**34UJ02**
	250 kcmil	750 kcmil	3.48 in	3/8 in	Plastisol	IT-750CB	**199XV3**
3	14 AWG	4 AWG	1.54 in	5/16 in	Plastisol	IPL4-3B	**14V971**
	14 AWG	1/0 AWG	2.27 in	3/16 in	Plastisol	IPL1/0-3B	**14V972**
	6 AWG	250 kcmil	2.99 in	5/16 in	Plastisol	IPLD250-3CB	**199XP9**
	6 AWG	3/0 AWG	2.65 in	1/4 in	Plastisol	IPLD3/0-3CB	**199XR3**
	6 AWG	350 kcmil	3.52 in	5/16 in	Plastisol	IPLD350-3CB	**199XR5**
	6 AWG	600 kcmil	3.41 in	5/16 in	Plastisol	IPLD600-3CB	**199XT6**
	4 AWG	500 kcmil	4.01 in	5/16 in	Plastisol	IPLD500-3CB	**199XT1**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-3CB	**199XT8**
4	6 AWG	250 kcmil	3.85 in	5/16 in	Plastisol	IPLD250-4CB	**199XR0**
	6 AWG	3/0 AWG	3.41 in	1/4 in	Plastisol	IPLD3/0-4CB	**199XR4**
	6 AWG	350 kcmil	4.57 in	5/16 in	Plastisol	IPLD350-4CB	**199XR6**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	IPLD600-4CB	**199XT7**
	4 AWG	500 kcmil	5.16 in	5/16 in	Plastisol	IPLD500-4CB	**199XT2**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-4CB	**199XT9**

POLARIS™ A BRAND OF nsi INDUSTRIES BURNDY® *Blackburn*®

Multitap Connectors

These connectors are suitable for connecting two or more wires, and feature removable access plugs, and are abrasion- and chemical-resistant. Insulated with specifically formulated high-strength dielectric and molded for precise fit. Suitable for use with aluminum and/or copper conductors.

No. of Ports	Min. Conductor Size	Max. Conductor Size	L	Stud Size	Insulation Material	Mfr. Model	Item No.
5	6 AWG	250 kcmil	4.71 in	5/16 in	Plastisol	IPLD250-5CB	**199XR1**
	6 AWG	350 kcmil	5.62 in	5/16 in	Plastisol	IPLD350-5CB	**199XR7**
	4 AWG	500 kcmil	6.38 in	5/16 in	Plastisol	IPLD500-5C	**199XT3**
6	6 AWG	250 kcmil	5.52 in	5/16 in	Plastisol	IPLD250-6CB	**199XR2**
	6 AWG	350 kcmil	6.67 in	5/16 in	Plastisol	IPLD350-6CB	**199XR8**
	4 AWG	500 kcmil	7.45 in	5/16 in	Plastisol	IPLD500-6CB	**199XT4**
8	6 AWG	350 kcmil	8.77 in	5/16 in	Plastisol	IPLD350-8C	**199XR9**
	4 AWG	550 kcmil	9.82 in	5/16 in	Plastisol	IPLD500-8CB	**199XT5**
10	4 AWG	500 kcmil	12.11 in	5/16 in	Plastisol	IPLD500-10C	**199XT0**
BURNDY							
2	14 AWG	2/0 AWG	1.56 in	11/16 in	Plastisol	BITO2/0	**22C257**
BLACKBURN							
2	14 AWG	4 AWG	2.25 in	1/8 in	Plastisol	AMTTC4	**1YRJ8**
	14 AWG	2/0 AWG	1.5 in	3/16 in	Plastisol	AMTT20	**1YRJ4**
	10 AWG	250 kcmil	2.0 in	1/4 in	Plastisol	AMTT250	**1YRJ6**
Single-Sided Entry L Insulated Multitap Connectors							
POLARIS							
2	14 AWG	6 AWG	1.07 in	1/8 in	Plastisol	ITG-6B	**14V956**
	14 AWG	4 AWG	1.07 in	5/16 in	PVC	IT-4B	**14V959**
	14 AWG	1/0 AWG	1.62 in	5/16 in	Plastisol	IT-1/0B	**14V961**
	14 AWG	1/0 AWG	1.62 in	3/16 in	Plastisol	IT-1/0CB	**199XU6**
	14 AWG	4 AWG	1.07 in	1/8 in	Plastisol	IT-4CB	**199XV0**
	10 AWG	1 AWG	1.62 in	3/16 in	Plastisol	ITG-1B	**14V955**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	IT-3/0B	**14V962**
	6 AWG	250 kcmil	2.13 in	5/16 in	Plastisol	IT-250B	**14V963**
	6 AWG	350 kcmil	2.47 in	5/16 in	Plastisol	IT-350B	**14V964**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	IT-3/0CB	**199XU8**
	4 AWG	500 kcmil	2.87 in	5/16 in	Plastisol	IT-500B	**14V965**
	250 kcmil	750 kcmil	3.48 in	3/8 in	Plastisol	IT-750B	**14V966**
3	14 AWG	6 AWG	1.54 in	1/8 in	Plastisol	IPLG6-3B	**14V954**
	14 AWG	1/0 AWG	2.24 in	3/16 in	Plastisol	IPL1/0-3CB	**199XN6**
	14 AWG	4 AWG	1.54 in	1/8 in	Plastisol	IPL4-3CB	**199XP3**
	10 AWG	1 AWG	2.97 in	3/16 in	Plastisol	IPLG1-3B	**14V953**
	6 AWG	250 kcmil	2.93 in	3/16 in	Plastisol	IPL250-3B	**34UH88**
	6 AWG	3/0 AWG	2.63 in	5/16 in	Plastisol	IPL3/0-3B	**34UH90**
	6 AWG	600 kcmil	3.41 in	5/16 in	Plastisol	IPLD600-3B	**34UH95**
	6 AWG	250 kcmil	2.93 in	5/16 in	Plastisol	IPL250-3CB	**199XN8**
	6 AWG	3/0 AWG	2.63 in	1/4 in	Plastisol	IPL3/0-3CB	**199XP0**
	6 AWG	350 kcmil	3.47 in	5/16 in	Plastisol	IPL350-3C	**199XP2**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-3B	**34UH97**
	500 kcmil	4 AWG	3.96 in	5/16 in	Plastisol	IPL500-3C	**199XP7**
4	14 AWG	1/0 AWG	2.89 in	3/16 in	Plastisol	IPL1/0-4B	**34UH87**
	14 AWG	1/0 AWG	2.89 in	3/16 in	Plastisol	IPL1/0-4CB	**199XN7**
	14 AWG	4 AWG	1.97 in	1/8 in	Plastisol	IPL4-4CB	**199XP4**
	6 AWG	3/0 AWG	3.43 in	1/4 in	Plastisol	IPLD3/0-4B	**14V974**
	6 AWG	250 kcmil	3.85 in	5/16 in	Plastisol	IPLD250-4B	**14V976**
	6 AWG	350 kcmil	4.57 in	5/16 in	Plastisol	IPLD350-4B	**14V979**
	6 AWG	250 kcmil	3.8 in	5/16 in	Plastisol	IPL250-4B	**34UH89**
	6 AWG	3/0 AWG	3.41 in	5/16 in	Plastisol	IPL3/0-4B	**34UH91**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	IPLD600-4B	**34UH96**
	6 AWG	6 AWG	3.8 in	5/16 in	Plastisol	IPL250-4CB	**199XN9**
	6 AWG	3/0 AWG	3.41 in	1/4 in	Plastisol	IPL3/0-4CB	**199XP1**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-4B	**34UH98**
	500 kcmil	4 AWG	5.11 in	5/16 in	Plastisol	IPL500-4C	**199XP8**
5	14 AWG	4 AWG	2.39 in	1/8 in	Plastisol	IPL4-5C	**199XP5**
	6 AWG	250 kcmil	4.71 in	5/16 in	Plastisol	IPLD250-5B	**14V977**
	6 AWG	350 kcmil	5.62 in	5/16 in	Plastisol	IPLD350-5B	**14V980**
6	14 AWG	4 AWG	2.81 in	1/8 in	Plastisol	IPL4-6C	**199XP6**
	6 AWG	250 kcmil	5.52 in	5/16 in	Plastisol	IPLD250-6B	**34UH92**
	6 AWG	350 kcmil	6.6 in	5/16 in	Plastisol	IPLD350-6B	**34UH93**
	4 AWG	500 kcmil	7.45 in	5/16 in	Plastisol	IPLD500-6B	**14V983**
8	4 AWG	550 kcmil	9.82 in	5/16 in	Plastisol	IPLD500-8B	**34UH94**
BURNDY							
2	14 AWG	4 AWG	1.25 in	1/8 in	PVC	BIT4	**22C244**
	14 AWG	2/0 AWG	1.52 in	1/8 in	PVC	BIT2/0	**22C245**
	14 AWG	2/0 AWG	1.56 in	3/16 in	PVC	BIBD2/02	**22C254**
	14 AWG	4 AWG	1.25 in	1/8 in	Plastisol	1PL42	**22C264**
	14 AWG	2/0 AWG	1.52 in	3/16 in	Plastisol	1PL2/02	**22C265**
	10 AWG	250 kcmil	2.13 in	1/4 in	Plastisol	BIT250	**22C246**
	10 AWG	350 kcmil	2.5 in	1/8 in	Plastisol	BIT350	**22C260**
	10 AWG	250 kcmil	2.13 in	5/16 in	Plastisol	1PL2502	**22C270**
	10 AWG	350 kcmil	2.5 in	3/16 in	Plastisol	1PL3502	**22C281**
	4 AWG	600 kcmil	2.75 in	1/8 in	Plastisol	BIT600	**22C256**
	4 AWG	600 kcmil	2.75 in	1/8 in	Plastisol	1PL6002	**22C278**
3	14 AWG	4 AWG	1.51 in	1/8 in	Plastisol	BIBS43	**22C248**
	14 AWG	2/0 AWG	2.19 in	5/16 in	Plastisol	BIBS2/03	**22C252**
	14 AWG	4 AWG	1.51 in	1/8 in	PVC	1PL43	**22C266**
	14 AWG	2/0 AWG	2.19 in	5/16 in	PVC	1PL2/03	**22C272**
	10 AWG	250 kcmil	2.97 in	5/16 in	PVC	BIBS2503	**22C262**
	10 AWG	250 kcmil	2.97 in	5/16 in	PVC	1PL2503	**22C279**
4	14 AWG	4 AWG	1.95 in	5/16 in	Plastisol	BIBS44	**22C255**
	14 AWG	4 AWG	1.95 in	1/8 in	Plastisol	1PL44	**22C275**
BLACKBURN							
2	14 AWG	4 AWG	1.1 in	3/16 in	Plastisol	AMTC4	**1YRJ2**
	14 AWG	2/0 AWG	1.67 in	3/16 in	PVC	AMT20	**1YRJ1**
	10 AWG	250 kcmil	2.0 in	5/16 in	Plastisol	AMT250	**1YRJ3**
	10 AWG	350 kcmil	2.63 in	5/16 in	Plastisol	AMT350	**1YRJ5**
	6 AWG	500 kcmil	2.88 in	3/8 in	Plastisol	AMT500	**1YRJ7**
3	10 AWG	350 kcmil	3.25 in	5/16 in	PVC	AMTS350103	**1YRK3**
4	14 AWG	4 AWG	2.0 in	3/16 in	Plastisol	AMTS414	**1YRK6**


No. 3LR06


No. 3LT05


No. 3LN73


No. 3LN44


No. 3LN33


No. 3LN42

Blackburn®

Mechanical Connectors

UL Listed and CSA Certified (except Nos. 3LN73 and 3LN36 are not CSA Certified).

Min. Conductor Size	Max. Conductor Size	Head Style	Mfr. Model	Item No.	
Electrolytic Copper, 1-Conductor, 1-Hole - Compact					
14 AWG Solid	8 AWG Stranded	Slotted	L35	**3LR06**	
14 AWG Solid	4 AWG Stranded	Slotted	L70	**3LR08**	
8 AWG Solid	1/0 AWG Stranded	Socket	L125BB	**3LR04**	
6 AWG Stranded	250 kcmil Stranded	Socket	L250	**3LR05**	
4/0 AWG Stranded	500 kcmil Stranded	Slotted Socket	L400-BB	**3LR07**	†
Electrolytic Copper, 1-Conductor, 1-Hole - Straight Tang					
14 AWG Solid	6 AWG Stranded	Slotted	STC0614	**3LT05**	
14 AWG Solid	4 AWG Stranded	Slotted	STC0414	**3LT04**	
8 AWG Stranded	2 AWG Stranded	Hex	STC0208	**3LT03**	
2 AWG Stranded	1/0 AWG Stranded	Hex	STC1102	**3LT06**	
4 AWG Stranded	3/0 AWG Stranded	Hex	STC3104	**3LT07**	
1/0 AWG Stranded	500 kcmil Stranded	Hex	STC5011	**3LT08**	
Electrolytic Copper, 1-Conductor, 1-Hole - Offset Tang					
14 AWG Solid	10 AWG Stranded	Slotted	BTC1014	**3LN73**	*
14 AWG Solid	6 AWG Stranded	Slotted	BTC0614	**3LN72**	
8 AWG Stranded	2 AWG Stranded	Slotted	BTC0208	**3LN71**	
2 AWG Stranded	1/0 AWG Stranded	Hex	BTC1102	**3LN74**	
4 AWG Stranded	3/0 AWG Stranded	Hex	BTC3104	**3LN75**	
2 AWG Stranded	4/0 AWG Stranded	Hex	BTC4102	**3LN77**	
1/0 AWG Stranded	350 kcmil Stranded	Hex	BTC3511	**3LN76**	
1/0 AWG Stranded	500 kcmil Stranded	Hex	BTC5011	**3LN78**	
Aluminum, 1-Conductor, 1-Hole - Dual Rated Lug					
14 AWG Solid	6 AWG Stranded	Slotted	ADR6	**3LN44**	
14 AWG Solid	2 AWG Stranded	Slotted	ADR2	**3LN34**	
14 AWG Solid	1/0 AWG Stranded	Slotted	ADR11	**3LN32**	
14 AWG Solid	2/0 AWG Stranded	Slotted	ADR21	**3LN35**	
6 AWG Stranded	250 kcmil Stranded	Socket	ADR25	**3LN37**	
6 AWG Stranded	300 kcmil Stranded	Socket	ADR30	**3LN39**	
6 AWG Stranded	350 kcmil Stranded	Socket	ADR35	**3LN40**	
4 AWG Stranded	500 kcmil Stranded	Socket	ADR50	**3LN43**	
Aluminum, 2-Conductor, 1-Hole - Dual Rated Lug					
14 AWG Solid	1/0 AWG Stranded	Slotted	ADR11-21	**3LN33**	
14 AWG Solid	2/0 AWG Stranded	Slotted	ADR21-21	**3LN36**	*
6 AWG Stranded	250 kcmil Stranded	Socket	ADR25-21	**3LN38**	
6 AWG Stranded	350 kcmil Stranded	Socket	ADR35-21	**3LN41**	
2 AWG Stranded	600 kcmil Stranded	Hex	ADR60-21	**3LN45**	
Aluminum, 2-Conductor, 2-Hole - Dual Rated Lug					
6 AWG Stranded	350 kcmil Stranded	Hex	ADR35-22	**3LN42**	
2 AWG Stranded	600 kcmil Stranded	Double Hex	ADR60-22D	**3LN46**	

**** Not CSA Certified. † Bronze alloy.***

★ GA GRAINGER APPROVED

High-Strength, Split-Bolt Connector

- High-strength corrosion-resistant bronze alloy
- Cooper pressure bar

Ideal for copper-to-copper connections. UL Listed and CSA Certified.


No. 6CYZ3

Wire Range w/Equal Main and Tap (AWG)	Min. Tap Conductor w/1 Max. Main (AWG)	Item No.
250 kcmil to 1 str	8 str	**6CYZ3**


No. 22A947


No. 22A948


No. 22C163


No. 22C086


No. 22C062

BURNDY®

Split-Bolt Connectors

Highly resistant to cracking and corrosion. Provide maximum pressure and a secure connection on all combinations of run and tap conductors.

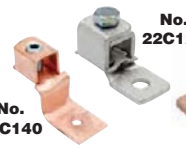
Wire Range w/Equal Main and Tap (AWG)	Min. Tap Conductor w/1 Max. Main (AWG)	Mfr. Model	Item No.
Split-Bolt Connector			
12 str to 10 str	16 str	KS90	**22A936**
10 str to 8 str	14 str	KS15	**22A937**
8 str to 6 sol	14 str	KS17	**22A932**
8 str to 6 sol	16 str	KS173	**22A945**
8 str to 6 sol	14 str	KS20	**22A933**
8 str to 4 sol	14 str	KS203	**22A946**
6 str to 2 sol	14 str	KS22	**22A934**
6 str to 2 sol	14 str	KS223	**22A947**
6 str to 2 str	14 str	KS23	**22A931**
4 str to 1/0 str	14 str	KS25	**22A935**
2 str to 2/0 str	14 str	KS26	**22A938**
1 str to 3/0 str	8 str	KS27	**22A940**
1 str to 250 kcmil	8 str	KS29	**22A939**
1/0 str to 350 kcmil	1/0 str	KS31	**22A942**
2/0 str to 500 kcmil	2/0 str	KS34	**22A941**
4/0 str to 750 kcmil	4/0 str	KS39	**22A943**
300 kcmil to 1000 kcmil	4/0 str	KS44	**22A944**
12 sol to 6 sol	12 sol	KSU17	**22A953**
10 sol to 4 sol	10 sol	KSU20	**22A951**
10 sol to 2 sol	10 sol	KSU22	**22A952**
8 str to 2 str	8 sol	KSU23	**22A948**
2 str to 1/0 str	10 str	KSU25	**22A950**
2 str to 2/0 str	8 str	KSU26	**22A949**
1 str to 3/0 str	8 sol	KSU27	**22A957**
1 str to 250 kcmil	8 str	KSU29	**22A954**
1/0 str to 350 kcmil	1/0 str	KSU31	**22A955**
6 sol to 2 str	8 sol	KSA2	**22C163**
8 str to 4 str	8 sol	KSA4	**22C165**
10 sol to 6 str	10 sol	KSA6	**22C164**
2 str to 1/0 str	8 sol	KSA1/0	**22C168**
2 str to 2/0 str	8 str	KSA2/0	**22C167**
4/0 str to 4/0 str	6 str	KSA4/0	**22C166**
1/0 str to 350 kcmil	4 str	KSA350	**22C170**
400 kcmil to 500 kcmil	2 str	KSA500	**22C169**
Plastic Cover for Split-Bolt Connectors			
6 str to 2 str	14 str	SC2	**22C086**
8 str to 6 sol	14 str	SC4	**22C087**
4 str to 1/0 str	14 str	SC2/0	**22C088**
Grounding Split Bolt Connector with Stud			
2 str to 10 sol	—	KC23	**22C062**
2/0 str to 2 str	—	KC26	**22C063**
2/0 str to 2 str	—	KC26B1	**22C064**
8/2 str to 10/1 sol	—	KC23B1	**22C065**
2/0 sol to 2 sol	—	KC25	**22C066**
4/0 str to 1 str	—	KC28	**22C068**
4/0 str to 1 str	—	KC28B1	**22C069**
6 sol to 10 sol	—	KC17	**22C070**
4 sol to 10 sol	—	KC20	**22C071**
2/0 sol to 2 sol	—	K2C25	**22C072**
3/0 sol to 2 sol	—	K2C26B1	**22C073**
3/0 sol to 2 sol	—	K2C26	**22C074**
1 sol to 10 sol	—	K2C23B1	**22C075**
4 sol to 10 sol	—	K2C20	**22C076**
1 sol to 10 sol	—	K2C23	**22C077**
4/0 str to 1 str	—	K2C28B1	**22C078**
2 sol to 10 sol	—	K2C22B1	**22C079**
Transformer Ground Connector			
2 sol to 8 sol	—	KC22J12T13	**22C080**
Combination Connector Kits			
Includes Nos. 22A931 and 22A932			**7DX22**
Includes Nos. 22A931, 22A932, 22A933 and 22A937			**7DX23**
Includes Nos. 22A933, 22A951, 22A953 and 22C087			**7DX24**
Includes Nos. 22A931, 22A934, 22A948, 22A952 and 22C086			**7DX25**
Includes Nos. 22A935, 22A938, 22A949, 22A950 and 22C088			**7DX26**


No. 22C224


No. 22C114


No. 22C205


No. 22C176


No. 22C140

No. 22C129


No. 22C094


No. 22C123


No. 22C214


No. 22C152

Mechanical Connectors

BURNDY

Description	Mfr. Model	Item No.
Insulated Gutter Connectors		
14 AWG to 250 kcmil	KPU29A26AC	**22C221**
6 AWG to 250 kcmil	KPU29A29AC	**22C219**
14 AWG to 500 kcmil	KPU34A26AC	**22C223**
6 AWG to 500 kcmil	KPU34A34AC	**22C220**
14 AWG to 750 kcmil	KPU39A26AC	**22C224**
1/0 to 750 kcmil	KPU39A39AC	**22C222**
Mechanical Connectors		
14 AWG Str. to 1/0 AWG Sol. and Str.	AMS0	**22C212**
14 AWG Str. to 2 AWG Sol. and Str.	AMS2	**22C210**
6 AWG Str. to 4/0 AWG Sol. and Str.	AMS4/0	**22C211**
6 AWG Str. to 250 kcmil Sol.	AMS250	**22C213**
6 AWG Str. to 350 kcmil Str.	AMS350	**22C214**
3/0 Str./Sol. to 500 kcmil Str., 4/0 AWG Sol.	AMS500	**22C215**
250 kcmil Str. to 750 kcmil Str.	AMS750	**22C216**
1/0 AWG Str. to 250 kcmil Str.	ASA250U	**22C226**
1/0 AWG Str. to 800 kcmil Str.	ASA800U	**22C225**
1/0 AWG Str. to 1000 kcmil Str.	ASA1000U	**22C227**
14 AWG Str. to 1/0 AWG Str.	K2A25U	**22C189**
14 AWG Str. to 2/0 AWG Str.	K2A26U	**22C191**
6 AWG Str. to 250 kcmil Str.	K2A29U	**22C190**
6 AWG Str. to 350 kcmil Str.	K2A31U	**22C192**
6 AWG Str. to 350 kcmil Str.	K2A31U2N	**22C195**
2 AWG Str. to 600 kcmil Str.	K2A36U	**22C193**
2 AWG Str. to 600 kcmil Str.	K2A36U2N	**22C194**
14 AWG Str. to 2 AWG Str.	K3A2U2	**22C201**
14 AWG Str. to 1/0 AWG Str.	K3A25U2	**22C202**
14 AWG Str. to 2/0 AWG Str.	K3A26U2N	**22C204**
6 AWG Str. to 250 kcmil Str.	K3A29U2N	**22C203**
2 AWG Str. to 600 kcmil Str.	K3A36U2N	**22C205**
6 AWG Str. to 250 kcmil Str.	K4A29U4N	**22C206**
6 AWG Str., 4 AWG Sol. to 300 kcmil Str., 4/0 AWG Sol.	K11A30U	**22C196**
2 AWG Str., 1 AWG Sol. to 600 kcmil Str., 4/0 AWG Sol.	K11A36U2	**22C197**
2 AWG Str. to 600 kcmil Str.	K21A36U2	**22C207**
2 AWG Str. to 600 kcmil Str.	K22A36U2	**22C198**
1/0 AWG Str. to 750 kcmil Str.	K22A39U2	**22C199**
14 AWG Str. to 2 AWG Str.	KA2U	**22C172**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KA4C	**22C146**
14 AWG Str. to 6 AWG Str.	KA6U	**22C171**
14 AWG Str./Sol. to 8 AWG Sol./Str.	KA8C	**22C149**
4 AWG Str. to 1/0 AWG Str.	KA25	**22C147**
14 AWG Str., 12 AWG Sol. to 1/0 AWG Str./Sol.	KA25U	**22C174**
6 AWG Str. to 2/0 AWG Str.	KA26U	**22C175**
1 AWG Str. to 4/0 AWG Str.	KA28	**22C148**
6 AWG Str. to 250 kcmil Str.	KA29U	**22C173**
6 AWG Str., 4 AWG Sol. to 300 kcmil Str., 4/0 AWG Sol.	KA30U	**22C181**
6 AWG Str. to 350 kcmil Str.	KA31U	**22C176**
4/0 AWG Str. to 500 kcmil Str.	KA34	**22C150**
4 AWG Str. to 500 kcmil Str.	KA34U	**22C177**
2 AWG Str. to 600 kcmil Str.	KA36U	**22C178**
2 AWG Str., 1 AWG Sol. to 600 kcmil Str., 4/0 AWG Sol.	KA36U2N	**22C179**
300 kcmil Str. to 800 kcmil Str.	KA40U	**22C180**
300 kcmil Str. to 800 kcmil Str.	KA40U2N	**22C183**
500 kcmil Str. to 1000 kcmil Str.	KA44U	**22C182**
500 kcmil Str. to 1000 kcmil Str.	KA44U2N	**22C184**
4 AWG Str. to 1/0 AWG Str.	KA252TC38	**22C151**
14 AWG Str. to 250 kcmil Str.	KAUKIT1	**22C186**
6 AWG Str. to 250 kcmil Str.	KAUKIT2	**22C187**
6 AWG Str. to 800 kcmil Str.	KAUKIT3	**22C188**
2 AWG Str. to 600 kcmil Str.	KK3A36U4N	**22C208**
2 AWG Str. to 600 kcmil Str.	KK4A36U4N	**22C209**
6 AWG Str. to 350 kcmil Str.	KKA31U2N	**22C185**
14 AWG Str./Sol. to 10 AWG Str./Sol.	KLU25	**22C142**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KLU35	**22C137**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KLU35TP	**22C140**
8 AWG Str./Sol. to 2 AWG Str./Sol.	KLU70	**22C138**
2 AWG Str. to 1/0 AWG Str.	KLU125	**22C139**
4 AWG Str. to 3/0 AWG Str.	KLU175	**22C141**
2 AWG Str. to 4/0 AWG Str.	KLU225	**22C143**
1/0 AWG Str. to 350 kcmil Str.	KLU300	**22C144**
1/0 AWG Str. to 500 kcmil Str.	KLU400	**22C145**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4C	**22C129**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CTP	**22C128**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CUNPL	**22C132**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CUP	**22C136**
14 AWG Str./Sol. to 8 AWG Str./Sol.	KPA8C	**22C130**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KPA8CTP	**22C127**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KPA8CUP	**22C135**
4 AWG Str. to 1/0 AWG Str.	KPA25	**22C131**
1/0 AWG Str. to 4/0 AWG Str.	KPA28	**22C133**
4/0 AWG Str. to 500 kcmil Str.	KPA34	**22C134**
4 AWG Str. to 1 AWG Str.	Q2A1C2	**22C119**
1/0 AWG Str. to 2/0 AWG Str.	Q2A262N	**22C118**
3/0 AWG Str. to 4/0 AWG Str.	Q2A282N	**22C120**
250 kcmil Str. to 350 kcmil Str.	Q2A312N	**22C122**
400 kcmil Str. to 500 kcmil Str.	Q3A344N	**22C117**
4 AWG Str. to 1 AWG Str.	QA1CB	**22C089**
8 AWG Str. to 4 AWG Str.	QA4CB	**22C090**
14 AWG Str./Sol. to 8 AWG Str./Sol.	QA8CB	**22C097**
1/0 AWG Str. to 2/0 AWG Str.	QA26B	**22C092**
3/0 AWG Str. to 4/0 AWG Str.	QA28B	**22C091**
3/0 AWG Str. to 4/0 AWG Str.	QA282B	**22C102**
3/0 AWG Str. to 4/0 AWG Str.	QA282N	**22C095**
400 kcmil Str. to 500 kcmil Str.	QA342N	**22C094**
350 kcmil to 1000 kcmil Str.	QA442N	**22C093**
3/0 AWG Str. to 4/0 AWG Str.	QB28	**22C123**
4 AWG Str. to 1 AWG Str.	QDA1C	**22C109**
8 AWG Str. to 4 AWG Str.	QDA4C	**22C111**
14 AWG Str./Sol. to 8 AWG Str./Sol.	QDA8C	**22C116**
1/0 AWG Str. to 2/0 AWG Str.	QDA26	**22C113**
3/0 AWG Str. to 4/0 AWG Str.	QDA28	**22C110**
250 kcmil Str. to 350 kcmil Str.	QDA31	**22C112**
400 kcmil Str. to 500 kcmil Str.	QDA34	**22C115**
600 kcmil Str. to 800 kcmil Str.	QDA40	**22C114**
6 AWG (Run) Str., 6 AWG (Tap) to 2 AWG (Run) Str., 2 AWG (Tap) Str.	QPX2C2C	**22C158**
1 AWG (Run) Str., 6 AWG (Tap) to 4/0 AWG (Run) Str., 2 AWG (Tap)	QPX282C	**22C153**
1/0 AWG (Run) Str., 6 AWG (Tap) to 4/0 AWG (Run) Str., 2 AWG (Tap)	QPX282CY	**22C161**
1 AWG (Run) Str., 1 AWG (Tap) to 4/0 AWG (Run) Str., 4/0 AWG (Tap)	QPX2828	**22C152**
4 AWG Str. to 1 AWG Str.	QQA1C2	**22C106**
3/0 AWG Str. to 4/0 AWG Str.	QQA282N	**22C104**
400 kcmil Str. to 500 kcmil Str.	QQA342N	**22C105**
4 AWG Str./Sol. to 1 AWG Str./Sol.	QR1C	**22C124**


No. 22C004


No. 22A990


No. 22A997


No. 22A958


No. 22C011


No. 22A983


No. 22C032


No. 22A968


No. 22C019


No. 22C061

Grounding Connectors

BURNDY

Description	Mfr. Model	Item No.
Cable Tray Grounding Connectors		
1/0 AWG to 6 AWG	GC2525CT	**22C005**
2/0 AWG to 2 AWG	GC2626CT	**22C004**
250 kcmil to 2/0	GC2929CT	**22C003**
Grounding Connectors		
2 AWG to 10 AWG, 2½" to 4" Pipe	C4	**22C024**
2 AWG to 10 AWG, ½" to 1" Pipe	C5	**22C023**
2 AWG to 10 AWG, ½" to 1" Pipe	C6	**22C033**
2 AWG to 10 AWG, 4½" to 6" Pipe	C8	**22C027**
2 AWG to 10 AWG, ½" to 1" Pipe	C11B	**22C026**
6 AWG, ½" to 1" Pipe	C11CSH1	**22C038**
4/0 AWG, ½" to 1" Pipe	C11CSH2	**22C037**
2 AWG to 10 AWG, ½" to 1" Pipe	C11D	**22C021**
4/0 AWG to 8 AWG, ½" to 1" Pipe, ⅜" to 1" Rod, #4 to #8 Rebar	C11HD4/0DB	**22C030**
2 AWG to 10 AWG, ⅜" to 1" Rod, ½" to 1" Pipe	C11K16D	**22C028**
6 AWG to 10 AWG, ½" to 1" Pipe	C11LH1	**22C035**
2/0 AWG to 10 AWG, ½" to 1" Pipe	C11LH2	**22C036**
3/0 AWG to 10 AWG, 1" Pipe	C11LH3	**22C031**
2 AWG to 10 AWG, ½" to 1" Pipe	C11N	**22C020**
2 AWG to 10 AWG, 1¼" to 2" Pipe	C22	**22C022**
2 AWG to 10 AWG, 1¼" to 2" Pipe	C22D	**22C025**
4/0 AWG to 8 AWG, 1¼" to 2" Pipe	C22HD4/0DB	**22C034**
6 AWG to 8 AWG, ½" to 1" Pipe	C61	**22C032**
2 AWG to 10 AWG, ½" to 1" Pipe	CZ11	**22C029**
2/0 AWG to 4 AWG, ½" Rod, ¼" Pipe	GAR1126	**22A981**
2/0 AWG to 4 AWG, ⅞" to 1" Rod, ½" to ¾" Pipe	GAR1426	**22A967**
250 kcmil to 2/0, ⅞" to 1" Rod, ½" to ¾" Pipe	GAR1429	**22A969**
2/0 AWG to 4 AWG, 1-1 /8" to 1¼" Rod, 1" Pipe	GAR1526	**22A968**
250 kcmil to 2/0, 1⅛" to 1¼" Rod, 1" Pipe	GAR1529	**22A971**
2/0 AWG to 4 AWG, 1⅜" to 1½" Rod, 1¼" Pipe	GAR1626	**22A974**
250 kcmil to 2/0, 1⅜" to 1½" Rod, 1¼" Pipe	GAR1629	**22A979**
2/0 AWG to 4 AWG, 1⅝" to 1⅞" Rod, 1½" Pipe	GAR1726	**22A966**
250 kcmil to 2/0, 1⅝" to 1⅞" Rod, 1½" Pipe	GAR1729	**22A972**
2/0 AWG to 4 AWG, 2" to 2⅜" Rod, 2" Pipe	GAR1826	**22A965**
250 kcmil to 2/0, 2" to 2⅜" Rod, 2" Pipe	GAR1829	**22A970**
2/0 AWG to 4 AWG, 2½" to 2⅞" Rod, 2½" Pipe	GAR1926	**22A975**
Grounding Connectors		
250 kcmil to 2/0, 2½" to 2⅞" Rod, 2½" Pipe	GAR1929	**22A973**
2/0 AWG to 4 AWG, 3" to 3½" Rod, 3" Pipe	GAR2026	**22A978**
250 kcmil to 2/0, 3" to 3½" Rod, 3" Pipe	GAR2029	**22A977**
2/0 AWG to 4 AWG, 4" to 4½", 4" Pipe	GAR2226	**22A980**
250 kcmil to 2/0, 4" to 4½", 4" Pipe	GAR2229	**22A982**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902	**22C042**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902BU	**22C017**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902TC	**22C051**
4/0 AWG to 4 AWG, 1¼" to 2" Pipe	GAR3903	**22C039**
4/0 AWG to 4 AWG, 1¼" to 2" Pipe	GAR3903BU	**22C015**
4/0 AWG to 4 AWG, 1¼" to 2" Rod	GAR3903TC	**22C050**
4/0 AWG to 4 AWG, 2½" to 3½" Pipe	GAR3904	**22C041**
4/0 AWG to 4 AWG, 2½" to 3½" Pipe	GAR3904BU	**22C016**
4/0 AWG to 4 AWG, 2½ " to 3½" Rod	GAR3904TC	**22C049**
4/0 AWG to 4 AWG, 4" to 5" Pipe	GAR3905	**22C040**
4/0 AWG to 4 AWG, 4" to 5" Pipe	GAR3905BU	**22C018**
4/0 AWG to 4 AWG, 4" to 5" Rod	GAR3905TC	**22C047**
4/0 AWG to 4 AWG, 6" Pipe	GAR3906	**22C043**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3906BU	**22C019**
4/0 AWG to 4 AWG, 8" Pipe	GAR3907	**22C044**
2/0 AWG to 4 AWG, ⅜" to ¾" Rod, ⅜" Pipe	GAR6426	**22A963**
250 kcmil to 2/0, ⅜" to ¾" Rod, ⅜" Pipe	GAR6429	**22A964**
4 AWG to 8 AWG	GB4C	**22A990**
2/0 AWG to 4 AWG	GB26	**22A992**
250 kcmil to 2/0	GB29	**22A991**
500 kcmil to 300 kcmil	GB34	**22A993**
300 kcmil to 4 AWG	GBL30	**22C013**
2/0 AWG to 4 AWG	GBM26	**22A998**
250 kcmil to 2/0	GBM29	**22A997**
1/0 AWG to 14 AWG, ½" to 1" Pipe	GC15A	**22C059**
250 kcmil to 6 AWG, 1¼" to 2" Pipe	GC18A	**22C060**
250 kcmil to 6 AWG, 2½" to 4" Pipe	GC22A	**22C061**
2/0 AWG to 4 AWG	GC2626	**22A995**
250 kcmil to 2/0	GC2929	**22A994**
500 kcmil to 300 kcmil	GC3434	**22A996**
Grounding Connectors		
300 kcmil to 4 AWG	GCL30	**22C012**
2/0 AWG to 4 AWG	GCM26	**22C001**
1.5" to 1.25", 1⅜" to 1½" Rod, 1¼" Pipe	GG161	**22A988**
1.88" to 1.5", 1⅜" to 1⅞" Rod, 1½" Pipe	GG171	**22A986**
2.38" to 2", 2" to 2⅜" Rod, 2" Pipe	GG181	**22A987**
2/0 AWG to 4 AWG	GL2626	**22C002**
2 AWG to 10 AWG, ½" Rod	GRC12	**22A960**
1 AWG to 10 AWG, ⅜" Rod	GRC58	**22A958**
2 AWG to 10 AWG, ⅜" Rod	GRL5	**22A961**
2 AWG to 10 AWG, ¾" Rod	GRL6	**22A962**
Grounding Strip Kits		
2 AWG (Ground Wire), 6 AWG (Intersystem Wire)	BDT1	**22C081**
Hand Clamps		
—	GIE4CG3	**22C007**
—	GIE4CG4	**22C008**
Mechanical Connectors		
14 AWG Str./Sol. to 1/0 AWG Str./Sol.	BGBL1/0	**22C057**
14 AWG Str./Sol. to 4 AWG Str./Sol.	BGBL4	**22C056**
6 AWG Str./Sol. to 250 kcmil Str., 4/0 AWG Sol.	BGBL250	**22C058**
14 AWG Str./Sol. to 4 AWG Sol./Str.	CL501	**22C011**
14 AWG Str./Sol. to 4 AWG Sol./Str.	CL501TN	**22C010**
14 AWG Str./Sol. to 4 AWG Sol./Str.	GKA4C	**22A983**
10 AWG Str./Sol. to 4 AWG Sol. and Str.	KPB4CG1	**22A984**
Raised Floor Grounding Connectors		
2 AWG to 8 AWG	GRF4C3	**22C054**
Static Discharge Clamps		
6 to 2 AWG	GIE2CG3	**22C006**
Weld On Grounding Studs		
6 AWG	GSTUD14HY	**22C084**
4/0 AWG	GSTUD34HY	**22C082**
1/0 AWG	GSTUD916HY	**22C083**
Wire to Wire Grounding Connectors		
250 kcmil to 2/0	GX2929	**22A985**



Bussmann 1-Pole



Bussmann 2-Pole



Bussmann 1-Pole Finger-Safe



Mersen 1-Pole Finger-Safe



Mersen (With Optional Cover) 3-Pole



Square D 2-Pole

EATON BUSSMANN SERIES

FERRAZ SHAWMUT IS NOW MERSEN

SQUARE D by Schneider Electric

Power Distribution Blocks

- Aluminum block, except where noted
- Accept aluminum or copper wire
- 600V appliance and industrial rating

These efficient blocks splice cables or split primary power into a wide range of secondary circuits and provide a fixed tap-off point. Save splicing and taping time for contractor rework. UL Recognized and CSA Certified.

Max. Amps	Primary Connec. per Pole	Primary Wire Range (AWG)	Secondary Connec. per Pole	Secondary Wire Range (AWG)	L	D	Mfr. Model	1-POLE W	1-POLE Item No.	2-POLE W	2-POLE Item No.	3-POLE W	3-POLE Item No.
Bussmann													
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	2.88"	1.75"	16204	1.07"	3ZJA9	1.88"	1EF56	2.70"	1EF57
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	2.80"	2.12"	16000	—	—	4.12"	3ZJC1	5.37"	4XK12
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	4	14 to 4 AWG CU, 8 to 4 AWG AL	2.88"	1.75"	16220	1.06"	4XK11	1.88"	5A671	2.70"	5A672
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	4.00"	3.32"	16321	1.98"	3XH60	3.60"	3XH61	5.21"	3XH62
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	2.80"	2.12"	16021	—	—	4.12"	3ZJC2	5.37"	4XK14
310	1	6 AWG to 250 MCM	1	6 AWG to 250 MCM	4.00"	3.32"	16303	1.98"	3ZJC3	3.60"	3ZJC4	5.21"	4XK16
310	1	6 AWG to 350 MCM	6	14 to 4 AWG CU, 12 to 4 AWG AL	4.00"	3.32"	16323	1.98"	5A673	3.60"	5A674	5.21"	5A675
310	1	6 AWG to 350 MCM	12	14 to 4 AWG CU, 12 to 4 AWG AL	4.00"	3.32"	16370	1.98"	3XH63	3.60"	3XH64	5.21"	3XH65
350	2	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	4.00"	3.32"	16325	1.98"	3ZJC6	3.60"	3ZJC7	5.21"	4XK13
420	1	2 AWG to 600 MCM	12	14 to 4 AWG CU, 12 to 4 AWG AL	4.00"	3.32"	16375	—	—	—	—	5.21"	3XH68
620	2	4 AWG to 350 MCM	2	4 AWG to 350 MCM	5.50"	2.93"	16500	3.10"	3ZJC8	5.79"	3ZJC9	8.48"	4XK20
Optional Cover for Bussmann 163 Series							CPDB	—	3XH80	—	3XH81	—	3XH82
Enclosed, Finger-Safe													
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	3.37"	2.15"	PDBFS204	1.03"	3ZJA2	—	—	—	—
175	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	4	14 to 4 AWG CU, 8 to 4 AWG AL	3.37"	2.15"	PDBFS220	1.03"	3ZJA3	—	—	—	—
310	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	4.67"	2.87"	PDBFS303	1.55"	3ZJA4	—	—	—	—
380	1	6 AWG to 500 MCM	6	14 to 2 AWG	4.67"	2.95"	PDBFS330	1.55"	3ZJA5	—	—	—	—
570	2	4 AWG to 300 MCM	12	14 to 4 AWG CU, 12 to 4 AWG AL	4.67"	2.93"	PDBFS377	1.88"	3ZJA6	—	—	—	—
620	2	4 AWG to 350 MCM	2	4 AWG to 350 MCM	4.67"	2.60"	PDBFS500	2.38"	3ZJA7	—	—	—	—
760	2	6 AWG to 500 MCM	2	6 AWG to 500 MCM	4.67"	3.15"	PDBFS504	2.56"	3ZJA8	—	—	—	—
Mersen													
85	1	14 to 4 AWG	1	14 to 4 AWG	3.08"	2.81"	MPDB63101	1.05"	25CC04	—	—	—	—
175	1	14 to 2/0 AWG	1	14 to 2/0 AWG	3.08"	2.81"	MPDB6315	1.05"	25CC08	1.98"	25CC09	2.91"	25CC10
175	1	14 to 2/0 AWG	2	14 to 2 AWG	3.08"	2.81"	MPDB63193	—	—	—	—	2.91"	25CC11
175	1	14 to 2/0 AWG	4	14 to 4 AWG	3.08"	2.81"	MPDB6313	1.05"	25CC05	1.98"	25CC06	2.91"	25CC07
175	1	14 to 2/0 AWG	6	14 to 2 AWG	5.00"	3.25"	MPDB6756	1.85"	25CC25	3.57"	25CC26	5.28"	25CC27
310	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	5.00"	3.25"	MPDB6700	1.85"	25CC16	3.57"	25CC17	5.28"	25CC18
310	1	6 AWG to 350 MCM	6	14 to 2 AWG	5.00"	3.25"	MPDB6766	1.85"	25CC28	3.57"	25CC29	5.28"	25CC30
310	1	6 AWG to 350 MCM	12	14 to 4 AWG	5.70"	3.55"	MPDB6915	2.73"	25CC41	5.32"	25CC42	7.89"	25CC43
350	1	4 AWG to 500 MCM	12	14 to 4 AWG	5.70"	3.55"	MPDB6908	2.73"	25CC31	5.32"	25CC32	7.89"	25CC33
350	2	14 to 2/0 AWG	6	14 to 2 AWG	5.00"	3.25"	MPDB6751	1.85"	25CC22	3.57"	25CC23	5.28"	25CC24
380	1	4 AWG to 500 MCM	6	14 to 2 AWG	5.00"	3.25"	MPDB66463	—	—	—	—	5.28"	25CC15
380	1	4 AWG to 500 MCM	18	14 to 10 AWG	5.00"	3.25"	MPDB6749	1.85"	25CC19	3.57"	25CC20	5.28"	25CC21
400	1	⅜ 16 x 1 ⅛ Stud	2	¼ 20 x 1 ⅛ Stud	5.00"	3.25"	MPDB6623	—	—	—	—	5.28"	25CC14
620	2	6 AWG to 350 MCM	2	6 AWG to 350 MCM	5.70"	3.55"	MPDB6912	2.73"	25CC38	5.32"	25CC39	7.89"	25CC40
760	2	4 AWG to 500 MCM	2	4 AWG to 500 MCM	5.70"	3.55"	MPDB69093	—	—	—	—	7.89"	25CC34
760	2	4 AWG to 500 MCM	12	14 to 4 AWG	5.70"	3.55"	MPDB6911	2.73"	25CC35	5.32"	25CC36	7.89"	25CC37
760	3	600 2	3		5.70"	3.55"	MPDB69331	—	—	—	—	2.73"	25CC44
Optional Touch Safe Cover for Mersen Mfr. No. MPDB62, MPDB63							MPDBC6263	—	25CC01	—	—	—	—
Optional Touch Safe Cover for Mersen Mfr. No. MPDB66, MPDB67							MPDBC6667	—	25CC02	—	—	—	—
Optional Touch Safe Cover for Mersen Mfr. No. MPDB68, MPDB69							MPDBC6869	—	25CC03	—	—	—	—
Enclosed, Finger-Safe													
175	1	14 to 2/0 AWG	1	14 to 2/0 AWG	2.86"	1.95"	FSPDB1A	1.00"	5LCP6	—	—	—	—
175	1	14 to 2/0 AWG	4	14 to 2 AWG	3.45"	2.21"	FSPDB2A	1.12"	5LCP7	—	—	—	—
310	2	6 AWG to 350 MCM, 14 to 2/0 AWG	8	14 to 8 AWG	3.97"	2.53"	FSPDB3A	1.85"	5LCP8	—	—	—	—
335	1	6 AWG to 400 MCM	1	6 AWG to 400 MCM	5.73"	3.15"	FSPDB4A	1.54"	5LCP9	—	—	—	—
840	2	4 AWG to 600 MCM	2	4 AWG to 600 MCM	5.71"	3.15"	FSPDB5A	2.84"	5LCR0	—	—	—	—
Square D													
115	1	14 to 2 AWG	1	14 to 2 AWG	2.29"	1.53"	9080LBA_61101	—	—	—	—	2.10"	2DD63
115	1	14 to 2 AWG	4	18 to 10 AWG	2.29"	1.53"	9080LBA_61104	0.83"	6NHG1	1.46"	6PGF3	2.10"	6PGF8
150	1	6 to 2/0 AWG	6	10 to 4 AWG	5.37"	2.06"	9080LBA_62106	—	—	—	—	2.90"	6PGG0
175	1	14 to 2/0 AWG	1	14 to 2/0 AWG	2.88"	1.78"	9080LBA_62101	1.13"	6NHG4	1.94"	6PGF5	2.75"	2DD65
175	1	14 to 2/0 AWG	4	14 to 4 AWG	2.88"	1.78"	9080LBA_62104	1.13"	6NHG3	1.94"	2DD51	2.75"	2DD66
310	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	13.40"	2.61"	9080LBA_63101	—	—	3.47"	2DD52	—	—
335	1	6 AWG to 500 MCM	6	14 to 2 AWG	4.00"	2.61"	9080LBA_63106	1.94"	6PGF0	3.47"	6PGF6	5.00"	2DD70
335	1	6 AWG to 400 MCM	8	14 to 2 AWG	4.75"	3.16"	9080LBA_64108	—	—	—	—	6.00"	2DD73
350	2	14 to 2/0 AWG	6	14 to 4 AWG	4.00"	2.61"	9080LBC_63206	1.94"	6PGF1 *	3.47"	6PGF7 *	5.00"	6PGG1 *
760	2	4 AWG to 500 MCM	2	4 AWG to 500 MCM	5.50"	3.12"	9080LBA_652021	—	—	5.85"	10C735	8.54"	10C737
760	2	4 AWG to 500 MCM	8	14 to 2/0 AWG	5.50"	3.12"	9080LBC_65208	3.17"	6PGF2 *	—	—	8.54"	6PGG2 *
760	2	4 AWG to 500 MCM	8	14 to 2/0 AWG	5.50"	3.12"	9080LBA_65208	—	—	5.85"	10C736	—	—
760	2	4 AWG to 500 MCM	12	14 to 4 AWG	5.50"	3.12"	9080LBA_65212	3.17"	6NHG2	5.85"	6PGF4	8.54"	6PGF9
Clear Cover For Use With Square D 9080LBA362 Series (except No. 6PGG0), Pkg. of 5							9080LB23	—	—	—	—	—	6XTL1
Clear Cover For Use With Square D 9080LBA363 Series, Pkg. of 5							9080LB33	—	—	—	—	—	6XTL2

Copper block, accepts copper conductors only.



No. 2DD09



No. 2DC71



No. 2DC60



No. 5B375

NEMA Terminal Blocks, Circuit Protectors, and Fuse Block

- Terminal block temp. range: -40° to 257°F (-40° to 125°C)
- Terminal and fuse block max. 600VAC

Box lug terminal blocks are suitable for use with stranded or solid copper wire. Hardware is recessed into the molding. Built-in wire strip gauge and marking area. Terminal and fuse blocks are rated UL 94 V-2 for flammability.

Mounting: All except Nos. 5B364 and 2DC71 have a snap-off arm on the terminal block.

No. 2DD09 includes banana test plug adapter.

Amps	Min. Wire Size	Max. Wire Size	Pieces per Ft.	End Barrier	2-Pole Jumpers	6-Pole Jumpers	Channel Size	W	H	D	Mfr. Model	Item No.
Terminal Block, Nylon, Gray Color												
30	22 AWG	10 AWG	51	5B373	5B368	5B367	35mm/GH	0.23"	1.82"	1.72"	9080GME6	**3KL92**
Terminal Block, Nylon, Natural Color												
30	22 AWG	10 AWG	51	5B361	5B368	5B367	35mm/GH	0.23"	1.82"	1.72"	9080GM6	**5B362**
40	22 AWG	10 AWG	34	5B363	5B366	5B365	21mm	0.35"	1.39"	1.40"	9080GK6	**5B364**
40	22 AWG	12 AWG	32	5B359	2DD04	2DD05	35mm/GH	0.38"	1.48"	1.80"	9080GA6	**5B380**
40	18 AWG	12 AWG	32	5B359	2DD04	2DD05	35mm/GH	0.38"	1.48"	1.80"	9080GP6	**5B360**
60	22 AWG	8 AWG	34	5B361	5B366	5B365	35mm/GH	0.35"	1.82"	1.72"	9080GR6	**5B358**
60	22 AWG	8 AWG	34	5B361	5B366	5B365	35mm/GH	0.35"	1.82"	1.72"	9080GR6T	**2DD09**
110	18 AWG	4 AWG	28	5B378	2DD01	2DD02	35mm/GH	0.43"	2.13"	1.99"	9080GC6	**5B379**
180	12 AWG	1/0	17	5B376	2DD03	Mfr. No. 9080GH77	35mm/GH	0.70"	2.71"	2.12"	9080GD6	**5B377**
255	6 AWG	250 Kcmil	10	5B373	—	—	35mm/GH	1.17"	2.34"	3.32"	9080GE6	**2DC71**
Circuit Protectors												
1 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB10	**2DC60**
1 A	16 AWG	12 AWG	10	—	—	—	35mm DIN Rail	1.2 in	3.0 in	3.3 in	GB2CB06	**2DG38**
2 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB20	**2DC65**
4 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB40	**2DC68**
5 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB50	**2DC69**
10 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB100	**2DC61**
15 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB150	**2DC64**
Fuse Block, Nylon, Natural Color, Midget Fuse Type												
30	18 AWG	10 AWG	16	5B374	—	—	35mm/GH	0.75"	2.19"	2.19"	9080GF6	**5B375**



Jumper
No. 5B365



Blown Fuse Indicator
No. 2DD06



End Barrier
No. 5B361

Terminal Block Accessories

For Use With	No. of Poles	Mfr. Model	Item No.
Terminal Block Jumpers			
Mfr. No. 9080GM6	2	9080GH700	**5B368**
Mfr. No. 9080GR6T, 9080GR6, 9080GK6	2	9080GH72	**5B366**
Mfr. No. 9080GC6	2	9080GH74	**2DD01**
Mfr. No. 9080GP6, 9080GA6	2	9080GH78	**2DD04**
Mfr. No. 9080GM6	6	9080GH710	**5B367**
Mfr. No. 9080GR6T, 9080GR6, 9080GK6	6	9080GH73	**5B365**
Mfr. No. 9080GC6	6	9080GH75	**2DD02**
Mfr. No. 9080GP6, 9080GA6	6	9080GH79	**2DD05**
Terminal Block Blown Fuse Indicators			
Mfr. No. 9080GF6	—	9080GLP3	**2DD06**
Mfr. No. 9080GF6	—	9080GLP6	**2DD07**
Terminal Block End Barriers			
Mfr. No. 9080GR6T, 9080GR6, 9080GM6	—	9080GM6B	**5B361**
Mfr. No. 9080GK6	—	9080GK6B	**5B363**
Mfr. No. 9080GC6	—	9080GC6B	**5B378**
Mfr. No. 9080GD6	—	9080GD6B	**5B376**
Mfr. No. 9080GP6, 9080GA6	—	9080GP6B	**5B359**
Mfr. No. 9080GF6	—	9080GF6B	**5B374**



Mounting Channel
No. 5B371



End Clamp
No. 5B373

Mounting Channels

Description	L	W	H	Mounting Holes O.C. (in.)	Mounting Hole Width (in.)	Mfr. Model	Item No.
GH Mounting Channels							
Standard	10.00"	0.81"	0.22"	0.63	0.27	9080GH110	**2DC80**
Standard	12.00"	0.81"	0.22"	0.63	0.27	9080GH112	**2DC81**
Standard	36.00"	0.81"	0.22"	0.63	0.27	9080GH136	**5B371**
Standard	48.00"	0.81"	0.22"	0.63	0.27	9080GH148	**5B370**
Standard	72.00"	0.81"	0.22"	0.63	0.27	9080GH172	**2DC86**
Snap-Off	36.00"	0.81"	0.22"	0.63	0.27	9080GH236	**5B369**
End Clamps for GH Channels							
Screw-on End Clamp						9080GH10	**5B373**
Slip-on End Clamp						9080GH11	**5B372**



No. 5B357

35mm DIN Mounting Channels

Symmetrical, prepunched rails are in compliance with EN 50022 standard (DIN 46277-3). Priced each; shipped in pkg. of 10, sold individually in-store only.

Nos. 5B357 and 2DF49 are galvanized steel.

Type	L	W	H	Mounting Holes O.C. (in.)	Mounting Hole Width (in.)	Mfr. Model	Item No.
IEC	39.00"	1.38"	0.29"	0.98	0.71	9080MH339	**5B357**
IEC	78.00"	1.38"	0.29"	0.98	0.71	9080MH379	**2DF49**
Terminal Block Screw-On End Clamp						9080MHA10	**3ULY3**

Terminal and Barrier Strips

GRAINGER APPROVED

- Operating range: -40° to 302°F
- Min. wire size (terminal strips): 22 AWG

Feature heavy-duty, corrosion-resistant screws. Protective cover prevents contact with live terminals.

No. of Poles	15A, 300VAC 3/8" Term. Spacing L	15A, 300VAC 3/8" Term. Spacing Item No.	20A, 300VAC 7/16" Term. Spacing L	20A, 300VAC 7/16" Term. Spacing Item No.	30A, 600 9/16" Term. Spacing L	30A, 600 9/16" Term. Spacing Item No.	60A, 600 5/8" Term. Spacing L	60A, 600 5/8" Term. Spacing Item No.
Terminal Strips								
2	1.38"	**6ZEF2**	1.61"	**6ZEG6**	2.13"	**6YH63**	—	—
3	1.81"	**6ZEF3**	2.09"	**6ZEG7**	2.68"	**6ZEJ0**	—	—
4	2.17"	**6ZEF4**	2.52"	**6ZEG8**	3.25"	**6YH64**	—	—
5	2.56"	**6ZEF5**	2.95"	**6ZEG9**	3.86"	**6ZEJ1**	—	—
6	2.91"	**6ZEF6**	3.35"	**6ZEH0**	4.37"	**6YH65**	5.00"	**6YH91**
7	—	—	—	—	5.00"	**6ZEJ2**	—	—
8	3.70"	**6ZEF8**	4.21"	**6ZEH2**	5.50"	**6YH66**	—	—
9	4.06"	**6ZEF9**	4.65"	**6ZEH3**	6.10"	**6ZEJ3**	—	—
10	4.45"	**6ZEG0**	5.12"	**6ZEH4**	—	—	7.48"	**6ZEJ8**
12	5.20"	**6ZEG1**	5.98"	**6ZEH5**	7.75"	**6YH68**	8.75"	**6YH93**
14	5.98"	**6ZEG2**	6.89"	**6ZEH6**	8.74"	**6ZEJ4**	—	—
16	6.73"	**6ZEG3**	7.80"	**6ZEH7**	9.84"	**6ZEJ5**	—	—
18	7.48"	**6ZEG4**	8.66"	**6ZEH8**	11.02"	**6ZEJ6**	—	—
20	8.27"	**6ZEG5**	—	—	12.20"	**6ZEJ7**	—	—

Amps	Min. Wire Size	Max. Wire Size	L	W	H	Item No.
Barrier Strips, 300VAC, 12 Pole						
20	22 AWG	12 AWG	3.77"	0.64"	0.52"	**6YH99**
35	22 AWG	10 AWG	5.53"	0.93"	0.74"	**6YJ02**

No. of Poles	Pkg. Qty.	Fits 15A Item No.	Fits 30A Item No.	Fits 60A Item No.
Covers for Terminal Strips				
4	1	**10L530**	**6YH73**	—
6	1	—	—	**6YH95**
8	1	**10L532**	—	—
10	1	**10L533**	—	—
12	1	—	**6YH77**	**6YH97**
Accessories for 30A Terminal Strips				
Quick Connect, Double	10	—	**6YH87**	—
Terminal Block Jumper, Flat Slip-on	10	—	**6YH71**	—



Terminal Strip
No. 6YH68



Barrier Strip
No. 6YH99



Jumper
No. 6YH71



Quick Connect, Double
No. 6YH87

IEC-Style Terminal Blocks

Schneider Electric

- DIN rail mountable

Feature fast and reliable connection. Resist vibration and shocks, with a wide choice of connection options. Provide the possibility of testing all terminal blocks. Help ensure the quality and operational availability of equipment, and optimizes installation set up and operation. UL Recognized and CSA Certified.

Amps	No. of Poles	No. of Connec.	Min. Wire Size	Max. Wire Size	End Barrier	2-Pole Jumpers	Features	H	W	D	Color	Mfr. Model	Item No.
Pass-Through													
20	1	2	26 AWG	12 AWG	23NY30	23NY19	—	1.87"	0.21"	1.88"	Gray	NSYTRV22	**23NY07**
20	1	2	26 AWG	12 AWG	Mfr. No. NSYTRAP22BL	23NY19	—	1.87"	0.21"	1.88"	Blue	NSYTRV22BL	**23NY08**
30	1	2	26 AWG	10 AWG	23NY30	23NY20	—	1.87"	0.24"	1.88"	Gray	NSYTRV42	**23NY09**
30	1	2	26 AWG	10 AWG	Mfr. No. NSYTRAP22BL	23NY20	—	1.87"	0.24"	1.88"	Blue	NSYTRV42BL	**23NY10**
30	1	4	26 AWG	10 AWG	No. Modelo NSYTRAP24	23NY20	—	1.87"	0.24"	2.58"	Gray	NSYTRV44	**23NY13**
50	1	2	24 AWG	8 AWG	23NY30	23NY21	—	1.87"	0.32"	1.88"	Gray	NSYTRV62	**23NY11**
Pass-Through Doubledeck													
28	2	4	26 AWG	12 AWG	No. Modelo NSYTRAPE24	23NY19	—	2.56"	0.20"	2.75"	Gray	NSYTRV24D	**23NY12**
Grounding													
—	1	2	26 AWG	12 AWG	23NY30	23NY19	—	1.87"	0.21"	1.88"	Yellow/Green	NSYTRV22PE	**23NY14**
—	1	2	26 AWG	10 AWG	23NY30	23NY20	—	1.87"	0.24"	1.88"	Yellow/Green	NSYTRV42PE	**23NY15**
—	1	2	24 AWG	8 AWG	23NY30	23NY21	—	1.87"	0.32"	1.88"	Yellow/Green	NSYTRV62PE	**23NY16**
Lever-Type Fuse, No Lamp													
6	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.22"	0.32"	2.85"	Black	NSYTRV42SF5	**23NY17**
10	1	2	26 AWG	8 AWG	—	—	Accepts 1/4" X 1 1/4" Glass or Ceramic Fuse	2.38"	0.40"	3.11"	Black	NSYTRV42SF6	**23NY18**
Lever-Type Fuse, LED, 110 to 250VAC/DC													
10	1	2	26 AWG	8 AWG	—	—	Accepts 1/4" X 1 1/4" Glass or Ceramic Fuse	2.38"	0.40"	3.11"	Black	NSYTRV42SF6LA	**49T418**
12	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.20"	0.32"	2.85"	Black	NSYTRV42SF5LA	**49T416**
Lever-Type Fuse, LED, 12 to 30VAC/DC													
10	1	2	26 AWG	8 AWG	—	—	Accepts 1/4" X 1 1/4" Glass or Ceramic Fuse	2.38"	0.40"	3.11"	Black	NSYTRV42SF6LD	**49T417**
12	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.20"	0.32"	2.85"	Black	NSYTRV42SF5LD	**49T415**

Accessories		
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV24D, NSYTRV22PE, NSYTRV22	NSYTRAL22	**23NY19**
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV42, NSYTRV42BL, NSYTRV42PE	NSYTRAL42	**23NY20**
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV62PE, NSYTRV62	NSYTRAL62	**23NY21**
Blank Marking Card, 42 Characters, For Use With Mfr. No. NSYTRV62	NSYTRABPV8	**23NY24**
Blank Marking Card, 60 Characters, For Use With Mfr. No. NSYTRV42, NSYTRV42BL	NSYTRABPV6	**23NY23**
Blank Marking Card, 72 Characters, For Use With Mfr. No. NSYTRV22, NSYTRV22BL	NSYTRABPV5	**23NY22**
Terminal Block End Barrier, Screw Terminal, For Use With Mfr. No. NSYTRV22, NSYTRV22BL, NSYTRV42, NSYTRV42BL, NSYTRV62	NSYTRAC22	**23NY25**
Terminal Block End Plate, Screw Terminal, For Use With Mfr. No. NSYTRV24D	NSYTRACE24	**23NY26**
Terminal Block End Plate, Screw Terminal, For Use With Mfr. No. NSYTRV44	NSYTRAC24	**23NY27**
End Clamp, Clip-On Mount, 35mm DIN Rail, For Use With All Terminal Blocks	NSYTRAAB35	**23NY29**
End Clamp, Screw Mount, 35mm DIN Rail, For Use With All Terminal Blocks	NSYTRAABV35	**23NY28**
Partition Plate, Screw Terminal, For Use With Mfr. No. NSYTRV22, NSYTRV22BL, NSYTRV42, NSYTRV42BL, NSYTRV62	NSYTRAP22	**23NY30**
Partial End Plate, Screw Terminal Double Level, For Use With Mfr. No. NSYTRV24D	NSYTRACEP24	**23NY31**



No. 23NY08



No. 23NY12



No. 23NY13



No. 23NY14



No. 23NY17



No. 23NY19


No. 436H02


No. 2YKP6


No. 443P47


No. 443P50


No. 3A535


No. 11A562

LumaPro Cord Reels

These cord reels are used in general purpose applications and provide access and storage of extension cords while protecting the cord from wear, tangling, and kinking. The desired length of cord is pulled from the reel to reach equipment, and when power is no longer needed, the cord is wound back around the reel. Self-retracting cord reels automatically wind extended cord back on the reel, while hand-winding cord reels have a handle or knob for winding the cord manually. Lighted cord reels hold power cords with attached lamps to provide illumination in dark environments.

Retractable Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel Color	Overall Width	Overall Height	Item No.
Extension Cord Reel											
Ratchet Lock											
25 ft.	16 AWG	125VAC	10.0	Grounding Plug, NEMA 5-15P	Flying Lead	SJTOW	Black	Yellow	9½"	11½"	**436H02**
30 ft.	14 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Triple Tap Connector, NEMA 5-15R	SJT	Yellow	Yellow	9½"	11½"	**4XP67**
30 ft.	14 AWG	125VAC	13.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJTW	Yellow	Yellow	9½"	11½"	**436G97**
30 ft.	14 AWG	125VAC	13.0	Grounding Plug, NEMA 5-15P	Triple Tap Connector, NEMA 5-15R	SJTW	Yellow	Yellow	9½"	11½"	**436G98**
40 ft.	12 AWG	125VAC	15.0	Grounding Plug, NEMA 5-15P	Triple Tap Connector, NEMA 5-15R	SJTOW	Yellow	Yellow	16⅞"	13¾"	**443P47**
50 ft.	14 AWG	125VAC	13.0	Grounding Plug, NEMA 5-15P	Triple Tap Connector, NEMA 5-15R	SJTOW	Yellow	Yellow	16⅞"	13¾"	**443P48**
Hand Operated											
1 ft.	12 AWG	125VAC	15.0	Grounding Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-20P	SJTW	Yellow	Yellow	17½"	17¼"	**436H03**
20 ft.	14 AWG	120VAC	15.0	GFCI Plug, NEMA 5-15R	Dual Receptacle On Reel, NEMA 5-15P	SJT	Yellow	Yellow	8¼"	9¾"	**1TGL4**
25 ft.	16 AWG	120VAC	10.0	Grounding Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-15P	SJT	Yellow	Yellow	8¼"	9¾"	**3A535**
40 ft.	14 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-15P	SJTW	Yellow	Yellow	9"	12"	**2YKR4**
80 ft.	14 AWG	120VAC	10.0	Grounding Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-15P	SJTW	Yellow	Yellow	7¾"	13½"	**2YKR5**
80 ft.	14 AWG	120VAC	10.0	GFCI Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-15P	SJTW	Yellow	Yellow	7¾"	13½"	**2YKR7**
100 ft.	12 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15R	Quad Receptacle On Reel, NEMA 5-15P	SO	Yellow	Yellow	13⅜"	17½"	**22M975**
Extension Cord Reel with Hand Lamp											
Ratchet Lock											
20 ft.	18 AWG	120VAC	7.0	Grounding Plug, NEMA 5-15P	Incandescent Lamp with Receptacle, NEMA 5-15R	SVT	Yellow	Yellow	2½"	7½"	**1A135**
25 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 1-15P	LED Lamp, No Receptacle	SJT	Black	Yellow	—	14"	**2YKP6**
25 ft.	16 AWG	120VAC	10.0	Grounding Plug, NEMA 5-15P	Incandescent Lamp with Receptacle, NEMA 5-15R	SJT	Yellow	Yellow	3"	11"	**1W943**
25 ft.	16 AWG	120VAC	10.0	Grounding Plug, NEMA 5-15P	LED Lamp with Receptacle, NEMA 5-15R	SJT	Black	Yellow	—	14"	**2YKR1**
30 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 5-15P	Fluorescent Lamp, No Receptacle	SJT	Yellow	Yellow	2½"	12"	**2YKP2**
30 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 5-15P	LED Lamp, No Receptacle	SJT	Black	Yellow	9½"	11½"	**436H01**
35 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 5-15P	Incandescent Lamp, No Receptacle	SJT	Yellow	Yellow	3"	11"	**6X755**
40 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 1-15P	LED Lamp, No Receptacle	SJT	Black	Yellow	2"	14"	**2YKP7**
40 ft.	16 AWG	120VAC	9.5	Grounding Plug, NEMA 5-15P	LED Lamp with Receptacle, NEMA 5-15R	SJTW	Black	Black	14"	18"	**443P49**
50 ft.	18 AWG	120VAC	No Receptacle	Grounding Plug, NEMA 5-15P	LED Lamp, No Receptacle	SVT	Black	Yellow	9½"	11½"	**436G99**
50 ft.	14 AWG	120VAC	12.5	Grounding Plug, NEMA 5-15P	LED Lamp with Receptacle, NEMA 5-15R	SJTW	Black	Black	14"	18"	**443P50**
50 ft.	14 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Incandescent Lamp with Receptacle, NEMA 5-15R	SJTW	Yellow	Black	3"	15¾"	**2YKT2**
Cord Storage Reel											
Hand Operated											
125 ft. of 14/3 Cord, 100 ft. of 12/3 Cord, 200 ft. of 16/3 Cord								Yellow	13⅜"	17½"	**11A562**
150 ft. of Cord/Rope/Air Hose								Gray	10¼"	13"	**6YF66**


No. 46U998


No. 46U999


No. 46V017


No. 11K515

Coxreels Cord Reels

These cord reels are used in industrial and heavy industrial applications and hold extension cords that supply temporary power to devices located some distance away from an electrical outlet. Self-retracting cord reels have a spring mechanism that automatically winds the cord back on the reel. A stop, or ratchet, holds the cord at the desired length after it's pulled out for use. A quick tug on the cord disengages the stop, causing the spring to fully retract the cord. Hand-winding cord reels have a handle or knob that is turned by hand to wind the extension cord around the spool when not in use.

RETRACTABLE CORD REELS

Feature enclosed, factory-tuned cartridge style spring motor. 1-pc. ¼" steel base and mount for heavy-duty applications. Multiposition guide arm adjusts to wall, floor and ceiling mounts and lock ratchet secures cord at desired length.

CORD STORAGE REEL

Adjustable tension brake prevents free-wheeling during operation, transport, or storage. Steel construction with chip-resistant CPC™ powder-coated finish. No. 11K513 is welded steel "A" frame construction to strengthen the reel structure. Permanently lubricated self-aligning pillow block bearings. All internal electrical components under an access cover panel. No. 11K515 is designed with 1-pc. steel 10-ga. u-shaped frame.

Retractable Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel Color	Overall Width	Overall Height	Item No.
Extension Cord Reel											
Ratchet Lock											
30 ft.	12 AWG	120VAC	13.0	Grounding Plug, NEMA 5-20P	Flying Lead	SJO	Black	Blue	10½"	10⅝"	**46V004**
30 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJO	Black	Blue	10½"	10⅝"	**46U998**
30 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJO	Black	Blue	10½"	10⅝"	**46V002**
30 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJO	Black	Blue	10½"	10⅝"	**46U999**
50 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJO	Black	Blue	8½"	14⅞"	**46V015**
75 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJO	Black	Blue	19½"	21"	**46V016**
100 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJO	Black	Blue	24"	25½"	**46V017**
Cord Storage Reel											
Hand Operated											
40 ft. of 8/3 Cord , 75 ft. 10/3 Cord, 150 ft. of 12/3 Cord, 300 ft. of 16/3 Cord								Blue	12½"	13⅛"	**11K515**
250 ft. of 12/3, 200 ft. of 10/3								Blue	17½"	18½"	**11K513**

REELCRAFT®

Reelcraft Cord Reels

These cord reels are used in industrial and heavy industrial applications to provide access and storage of extension cords. Self-retracting cord reels have a spring mechanism that automatically winds the cord back on the reel. Incandescent lighted cord reels hold cords with attached lamps to provide portable lighting. Hand-winding cord reels have a handle or knob that is turned by hand to wind the extension cord around the spool when not in use.


No. 55CX98


No. 2XHZ9


No. 32UK76


No. 451N70


No. 2XJA3


No. 2XJE1

HAND-WIND CORD REELS

Large spool capacity, vibrationproof self-locking fasteners, and permanently lubricated main bearings. Adjustable spool-rotation drag eliminates cable backlash. Powder-coated steel construction.

Retractable Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel	Overall Width	Overall Height	Item No.
Extension Cord Reel											
Ratchet Lock											
35 ft.	16 AWG	120VAC	13.0	Grounding Connector, NEMA 5-15R	Single Plug, NEMA 5-15P	SJTOW	Black	Red Steel	12⅝"	13¼"	**32UK77**
45 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**8XFC6**
45 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJEOOW	White	White Steel	12⅝"	13¼"	**32UK75**
45 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Duplex GFCI Box Receptacle, NEMA 5-15R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**8X356**
45 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**12T744**
45 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Duplex GFCI Box Receptacle, NEMA 5-15R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**12T745**
45 ft.	12 AWG	125VAC	15.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJEOOW	Black	Silver Stainless Steel	10½"	14⅜"	**55CX98**
45 ft.	12 AWG	125VAC	15.0	Grounding Plug, Hospital Grade NEMA 5-15P	Single Connector, Hospital Grade NEMA 5-15R	SJEOOW	White	Silver Stainless Steel	10½"	14⅜"	**55CY01**
45 ft.	12 AWG	125VAC	15.0	Grounding Plug, NEMA 5-15P	Duplex GFCI Box Receptacle, NEMA 5-15R	SJEOOW	Black	Silver Stainless Steel	10½"	14⅜"	**55CY02**
45 ft.	12 AWG	125VAC	15.0	Grounding Plug, NEMA 5-15P	Triple Tap with GFCI, NEMA 5-15R	SJEOOW	Black	Silver Stainless Steel	10½"	14⅜"	**55CY04**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**2XHZ9**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SJEOOW	White	White Steel	12⅝"	13¼"	**32UK76**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SJEOOW	Black	Red Steel	12⅝"	20"	**2XJC8**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Locking Connector, NEMA L5-20R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**2XJA1**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Locking Connector, NEMA L5-20R	SJEOOW	Black	Red Steel	12⅝"	20"	**2XJC9**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**2XJA2**
45 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJEOOW	Black	Red Steel	12⅝"	20"	**2XJD1**
45 ft.	12 AWG	120VAC	20.0	Grounding Connector, NEMA 5-20R	Grounding Plug, NEMA 5-20P	SJEOOW	Black	Red Steel	12⅝"	13¼"	**32UK80**
45 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SJEOOW	Black	Silver Stainless Steel	10½"	14⅜"	**55CX99**
45 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJEOOW	Black	Silver Stainless Steel	10½"	14⅜"	**55CY03**
50 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJTOW	Black	Red Steel	12⅝"	13¼"	**2XHZ8**
50 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SJTOW	Black	Red Steel	12⅝"	20"	**2XJC7**
50 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Triple Tap Connector, NEMA 5-15R	SJEOOW	Black	Red Steel	12⅝"	13¼"	**13A882**
50 ft.	16 AWG	120VAC	13.0	Grounding Connector, NEMA 5-15R	Grounding Plug, NEMA 5-15P	SJTOW	Black	Red Steel	12⅝"	13¼"	**32UK78**
50 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Duplex GFCI Box Receptacle, NEMA 5-15R	SO	Black	Red Steel	17½	12½	**4LMG2**
50 ft.	12 AWG	600VAC	16.0	Junction Box	Flying Lead	SEOOW	Black	Red Steel	16½"	17½"	**12T746**
50 ft.	12 AWG	125/240VAC	20.0	Junction Box	Flying Lead	SJEOOW	Black	Red Steel	16½"	17½"	**2XJC4**
50 ft.	10 AWG	600VAC	20.0	Junction Box	Flying Lead	SEOOW	Black	Red Steel	19"	20¼"	**12T747**
50 ft.	10 AWG	125/240VAC	30.0	Junction Box	Flying Lead	SEOOW	Black	Red Steel	16½"	17½"	**2XJC5**
75 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SEOOW	Black	Red Steel	11¾"	20¼"	**451N69**
100 ft.	12 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-15R	SEOOW	Black	Red Steel	11¾"	20¼"	**451N70**
100 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Single Connector, NEMA 5-20R	SEOOW	Black	Red Steel	11¾"	20¼"	**451N71**
Hand Operated											
200 ft. of 10/3								Red Steel	19⅜"	20¼"	**2XJE4**
Extension Cord Reel with Hand Lamp											
Ratchet Lock											
35 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Incandescent Lamp with Receptacle, NEMA 5-15R	SJTOW	Black	Red Steel	9⅜"	13¼"	**2XJA3**
50 ft.	16 AWG	120VAC	13.0	Grounding Plug, NEMA 5-15P	Incandescent Lamp with Receptacle, NEMA 5-15R	SJTOW	Black	Red Steel	9⅜"	13¼"	**2XJA4**
Cord Storage Reel											
Motor Driven											
200 ft. of 10/3								Red Steel	19⅜"	20¼"	**2XJE6**
Hand Operated											
140 ft. of 10/3 Cord, 175 ft. of 12/3 Cord, 425 ft. of 16/3 Cord								Red Steel	19⅜"	20¼"	**2XJE1**
280 ft. of 10/3 Cord, 350 ft. of 12/3 Cord, 850 ft. of 16/3 Cord								Red Steel	19⅜"	20¼"	**2XJE2**

HUBBELL®
Wiring Device-Kellems

Hubbell Cord Reel

This reel is used in heavy industrial applications and holds extension cords that supply temporary power to devices located at a distance from an electrical outlet. A stop holds the cord at the desired length after it's pulled out. A tug on the cord disengages the stop, causing the cord to fully retract.

INDOOR

Extra-sturdy, with positive latch mechanism and corrosion-resistant, powder-coated finish.


No. 1TRB2


No. 55EP56

Retractable Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel Color	Overall Width	Overall Height	Item No.
Extension Cord Reel											
Ratchet Lock											
45 ft	12 AWG	125V AC	20.0 A	Grounding Plug, NEMA 5-20P	Single Locking Connector, NEMA L5-20R	SJEO	Black	White	12 ⅜ in	13 in	**1TRB2**
45 ft	12 AWG	125V AC	20.0 A	Grounding Plug, NEMA 5-15P	Duplex GFCI Box Receptacle, NEMA L5-20R	SJOW	White	White	12 ⅞ in	14 ½ in	**55EP56**
45 ft	12 AWG	125V AC	20.0 A	Grounding Plug, NEMA 5-15P	Single Connector, NEMA 5-20R	SJOW	White	White	12 ⅞ in	14 ½ in	**55EP57**


No. 13V190


No. 13V202


No. 13V205


No. 30PL33

KH Industrial Cord Reels

These cord reels are typically used in heavy industrial applications. They have a spring mechanism that automatically winds the cord back on the reel. A stop, or ratchet, holds the cord at the desired length after it's pulled out for use. A quick tug on the cord disengages the stop, causing the spring to fully retract the cord. These reels provide access and storage of extension cords while protecting the cord from wear, tangling, and kinking.

RTB SERIES NEMA 2 FOR INDOOR USE, OR NEMA 4 FOR INDOOR/OUTDOOR USE

Plug-n-Play models include NEMA rated plug-on feeder end, and PowerTuff Electrical Outlet Box on payout. 3 or 4 conductors and cord lengths up to 50 ft. Slip ring is rated up to 600V/30A. Designed for single or 3-phase applications. UL Listed and CSA Certified. PowerTuff boxes comply with OSHA and NEC regulations.

RTF SERIES NEMA 4X CORROSION-RESISTANT FOR INDOOR/OUTDOOR USE

High-tension spring RTF reels are for single or 3-phase applications and have a larger hub and additional conductors. Constant tension models are often used for moving equipment such as cranes and transfer cars. 70 ft. cord length. 3 to 12 conductors available. Slip ring is rated up to 600V/35A. UL Listed and CSA Certified.

Retractable Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel Color	Std.	Overall Width	Overall Height	Series	Item No.
Extension Cord Reel													
Ratchet Lock													
25 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	UL, CSA, NEMA 2	7¾"	13 3/16"	RTB	**13V199**
30 ft.	14 AWG	600VAC	12.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V214**
30 ft.	12 AWG	600VAC	16.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V215**
30 ft.	12 AWG	600VAC	20.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V205**
30 ft.	10 AWG	600VAC	20.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V216**
30 ft.	10 AWG	600VAC	25.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V206**
50 ft.	16 AWG	600VAC	10.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4	7¾"	13 3/16"	RTB	**13V190**
50 ft.	14 AWG	120VAC	15.0	Grounding Plug, NEMA 5-15P	Quad Box Receptacle, NEMA 5-15R	SJOW	Black	Yellow	UL, CSA, NEMA 2	7¾"	13 3/16"	RTB	**13V194**
50 ft.	12 AWG	600VAC	16.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V218**
50 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	UL, CSA, NEMA 2	7¾"	13 3/16"	RTB	**13V201**
50 ft.	10 AWG	600VAC	20.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V219**
50 ft.	10 AWG	600VAC	25.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V209**
70 ft.	14 AWG	600VAC	15.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V211**
70 ft.	12 AWG	600VAC	20.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**13V212**
Field Convertible													
25 ft.	12 AWG	120VAC	20.0	Flying Lead	Flying Lead	SJOW	Black	Black	UL, CSA, NEMA 4	7¾"	13 53/64"	RTB	**30PL33**
25 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Black	UL, CSA, NEMA 2	7¾"	13¾"	RTB	**30PL35**
25 ft.	12 AWG	120VAC	20.0	Inline GFCI, Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	UL, CSA, NEMA 2	7¾"	13 3/16"	RTB	**13V197**
50 ft.	14 AWG	600VAC	15.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**30PL43**
50 ft.	12 AWG	300VAC	20.0	Flying Lead	Flying Lead	SJOW	Black	Black	UL, CSA, NEMA 4	7¾"	13 53/64"	RTB	**30PL34**
50 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Black	UL, CSA, NEMA 2	7¾"	13 53/64"	RTB	**30PL36**
50 ft.	12 AWG	120VAC	20.0	Grounding Plug, NEMA 5-20P	Duplex GFCI Box Receptacle, NEMA 5-20R	SJOW	Black	Black	UL, CSA, NEMA 2	7¾"	13 53/64"	RTB	**30PL38**
50 ft.	12 AWG	120VAC	20.0	Flying Lead	Flying Lead	SJOW	Black	White	UL, CSA, NEMA 4	7¾"	13¾"	RTB	**30PL40**
50 ft.	12 AWG	120VAC	20.0	Flying Lead	Flying Lead	SJOW	White	White	UL, CSA, NEMA 4	7¾"	13¾"	RTB	**30PL42**
50 ft.	12 AWG	120VAC	20.0	Inline GFCI, Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	UL, CSA, NEMA 2	7¾"	13 3/16"	RTB	**13V198**
50 ft.	12 AWG	600VAC	20.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**11A232**
Constant Tension													
50 ft.	14 AWG	600VAC	12.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	UL, CSA, NEMA 4X	14½"	15"	RTF	**11A231**
Pivot Base													
Swivel Base, 345 Degree Swing													
For Use With RTB and RTF Series Reels								—	—	—	—	RTBF-PVB	**13V202**


No. 421X33


No. 421X35


No. 421X36


No. 421X31

Conductix-Wampfler Retractable Cord Reels

These cord reels are generally used for heavy industrial applications. The cord automatically winds back on the reel with a spring mechanism. After the cord is pulled out, a stop holds it in place. Tugging on the cord disengages the stop and causes the spring to fully retract the cord. These reels hold extension cords that supply temporary power to devices located some distance away from an electrical outlet.

Cord Length	Wire Size	Voltage	Max. Amps	Feeder Cord	Retractable Cord Ending	Trade Designation	Cord Color	Reel Color	Overall Width	Overall Height	Item No.
Extension Cord Reel											
Ratchet Lock											
25 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Flying Lead	SJOW	Black	Yellow	12"	13¾"	**421X33**
50 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Flying Lead	SJOW	Black	Yellow	12"	13¾"	**421X34**
50 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	White	12"	13¾"	**421X35**
100 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	14½"	15"	**421X36**
75 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Quad Box Receptacle, NEMA 5-20R	SJOW	Black	Yellow	14½"	15"	**421X37**
100 ft.	12 AWG	125VAC	20.0	Grounding Plug, NEMA 5-20P	Flying Lead	SJOW	Black	Yellow	14½"	15"	**421X38**
50 ft.	14 AWG	600VAC	12.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	13½"	15"	**421X32**
50 ft.	16 AWG	600VAC	8.0	Flying Lead	Flying Lead	SOOW	Black	Yellow	13½"	15"	**421X31**

Outdoor Extension Cords

These cords have a durable jacket that resists abrasion and harsh weather conditions, making them more robust for outdoor applications than indoor extension cords. They provide power when the power source is located some distance away from the device, such as with landscaping equipment. They consist of flexible electrical cable with a plug at one end and one or more receptacles at the other end.

Cord Designations

Cord and Cable Abbreviation Information

S	Service	**W, W-A**	Weather-Approved, Indoor/Outdoor
J	Junior Service, 300V	**P**	Parallel
T	Thermoplastic/Vinyl	**-2**	Heavier Construction than -1
E	Elastomer	**-3**	Heavier Construction than -2
0	Oil-Resistant	**SRD**	Range or Dryer Cable
00	Oil-Resistant Outer Jacket and Insulation	**HPN**	Heater Cord



No. 55CW62



No. 55CW66



No. 52NY24



No. 1FD65



No. 4GAC7



No. 4GAD5

Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Cord Length 10 ft Item No.	25 ft Item No.	50 ft Item No.	100 ft Item No.
1 Outlet Single Connector										
16 AWG	SJTW	NEMA 5-15P	Orange	-40° to 167°F	Yes	Power First	3EA97	3EA98	1FD53	1FD54
16 AWG	SJTW	NEMA 5-15P	Black	-40° to 167°F	Yes	Power First	—	—	21RJ51	—
16 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	55CW88	55CW89	—
16 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	4GAA5	4GAA6	—
14 AWG	SJTW	NEMA 5-15P	Orange with Black Stripe	-40° to 167°F	Yes	Power First	1XUP4	3EA99	1FD55	1FD56
14 AWG	SJTW	NEMA 5-15P	Black	-40° to 167°F	Yes	Power First	—	21RJ54	21RJ52	—
14 AWG	SJTW	NEMA 5-15P	Red/Black	-40° to 140°F	Yes	Southwire	—	—	—	55CW75
14 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	55CW78	55CW82	55CW76
14 AWG	SJTW	NEMA 5-15P	Red	-40° to 140°F	Yes	Southwire	—	55CW80	55CW84	55CW77
14 AWG	STW	NEMA 5-15P	Orange	-40° to 140°F	No	Southwire	—	55CW86	55CW87	55CW85
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	4GAA7	4GAA8	4GAA9
14 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	—	52NY27	—
12 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	55CW54	55CW57	55CW40
12 AWG	SJTW	NEMA 5-15P	Blue/Red	-40° to 140°F	Yes	Southwire	—	—	55CW60	55CW41
12 AWG	SJTW	NEMA 5-15P	Lime Green/Red	-40° to 140°F	Yes	Southwire	—	—	55CW62	55CW42
12 AWG	SJTW	NEMA 5-15P	Green/Yellow	-40° to 140°F	Yes	Southwire	—	—	55CW61	55CW43
12 AWG	SJTW	NEMA 5-15P	Orange/Blue	-40° to 140°F	Yes	Southwire	—	—	55CW64	55CW44
12 AWG	SJTW	NEMA 5-15P	Pink/Lime Green	-40° to 140°F	Yes	Southwire	—	—	55CW66	55CW45
12 AWG	SJTW	NEMA 5-15P	Blue	-40° to 140°F	Yes	Southwire	—	55CW55	55CW59	55CW46
12 AWG	SJTW	NEMA 5-15P	Green	-40° to 140°F	Yes	Southwire	—	55CW56	55CW63	55CW47
12 AWG	SJTW	NEMA 5-15P	Pink	-40° to 140°F	Yes	Southwire	—	—	55CW65	55CW48
12 AWG	SJTW	NEMA 5-15P	Red/White	-40° to 140°F	Yes	Southwire	—	—	55CW67	55CW49
12 AWG	SJTW	NEMA 5-15P	Yellow/Purple	-40° to 140°F	Yes	Southwire	—	—	55CW68	55CW50
12 AWG	SJTW	NEMA 5-15P	Blue/Red/White	-40° to 140°F	Yes	Southwire	—	55CW53	55CW69	55CW51
12 AWG	STW	NEMA 5-15P	Orange	-40° to 140°F	No	Southwire	—	55CW71	55CW72	55CW70
12 AWG	SJTW	NEMA 5-15P	Black	-40° to 167°F	Yes	Power First	—	—	21RJ55	21RJ53
12 AWG	SJTW	NEMA 5-15P	Yellow with Black Stripe	-40° to 167°F	Yes	Power First	1XUP5	1XUP6	3EB10	1FD57
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	4GAC1	4GAC2
12 AWG	SJEOW	NEMA 5-15P	Blue/White	-94° to 221°F	Yes	Southwire	—	55CW37	55CW38	55CW36
12 AWG	SJEOOW	NEMA 5-15P	Yellow	-58° to 140°F	Yes	Southwire	—	—	444C65	444C66
12 AWG	SJTOW	NEMA 5-15P	Black	-58° to 221°F	No	Southwire	—	—	55CW39	—
12 AWG	SJTW	NEMA 5-15P	Black	-40° to 221°F	No	GA	—	—	5XFP4	5XFP5
10 AWG	SJTOW	NEMA 5-20P	Yellow	-58° to 194°F	Yes	Power First	—	—	4FZZ7	4FZZ8
10 AWG	SJTOW	NEMA L5-20P	Yellow	-58° to 194°F	Yes	Power First	—	—	4GAA2	4GAA4
10 AWG	SJTW	NEMA 5-15P	Blue/Red	-40° to 140°F	Yes	Southwire	—	—	55CW34	55CW32
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	1XUP7	1XUP8	1XUP9
10 AWG	STW	NEMA L5-30P	White	-4° to 140°F	Yes	Hubbell	—	—	1UKB1	—
10 AWG	STOW	NEMA L5-30P	Yellow	-4° to 140°F	No	Hubbell	—	—	3D961	—
10 AWG	SJTW	NEMA 5-15P	Lime Green/Red	-40° to 140°F	Yes	Southwire	—	—	55CW35	55CW33
10 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	4GAC3	4GAC4
1 Outlet Slide Compression Lock										
16 AWG	SJTW	NEMA 5-15P	Orange	-40° to 167°F	No	Power First	52NY11	52NY15	52NY14	52NY12
14 AWG	SJTW	NEMA 5-15P	Orange with Black Stripe	-40° to 167°F	No	Power First	52NY13	52NY20	52NY18	52NY17
12 AWG	SJTW	NEMA 5-15P	Yellow with Black Stripe	-40° to 167°F	No	Power First	52NY22	52NY24	52NY25	52NY23
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	No	Power First	—	52NY19	52NY16	52NY21
3 Outlet T-Shape										
14 AWG	SJTW	NEMA 5-15P	Orange with Black Stripe	-40° to 167°F	Yes	Power First	1FD64	1FD65	1FD66	—
14 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	55CW79	55CW83	—
12 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	—	55CW58	—
12 AWG	SJTW	NEMA 5-15P	Yellow with Black Stripe	-40° to 167°F	Yes	Power First	1FD67	1XUR1	1XUR2	1XUR4
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	—	1XUR3	1XUR5
3 Outlet W-Shape										
14 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 221°F	Yes	GA	—	20FR82	20FR83	—
14 AWG	SJTOW	NEMA 5-15P	Black	-58° to 221°F	No	Southwire	—	55CW74	—	—
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4GAC7	4GAC8	4GAC9	4GAD1
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	4GAD2	4GAC5	4GAC6
10 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	4GAD9	4GAE1
10 AWG	SJTOW	NEMA 5-20P	Yellow	-58° to 194°F	Yes	Power First	—	4GAD3	—	—
10 AWG	SJTOW	NEMA L5-30P	Yellow	-58° to 194°F	No	Power First	—	4GAD4	—	—
6 Outlet Block										
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	4GAD6	4GAD7	4GAD8

Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Item No.
1 Outlet Slide Compression Lock							
45 ft. Cord Length							
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4FZY6
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4FZY8
90 ft. Cord Length							
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4FZY7
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4FZY9
3 Outlet Block							
15 ft. Cord Length							
14 AWG	SJOW	NEMA 5-15P	Black	-58° to 221°F	Yes	Southwire	55CW73
3 Outlet T-Shape							
2 ft. Cord Length							
12 AWG	STW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	4DB72
6 Outlet Block							
6 ft. Cord Length							
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	4GAD5


No. 1FD75


No. 52NY10


No. 1FD74

Indoor Extension Cords

These cords are often used in shorter lengths (less than 25 ft.) than outdoor extension cords to accommodate indoor applications. They have a lightweight jacket that is not suitable for wide temperature ranges and therefore should not be used outdoors. They consist of flexible electrical cable with a plug at one end and one or more receptacles at the other end.

Cord Length	Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Item No.
1 Outlet Block								
8 ft.	16 AWG	HPN	NEMA 1-15P	Black	-4° to 194°F	No	Power First	**1FD75**
1 Outlet Single Connector								
1 ft.	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	GA	**5XFP6**
2 ft.	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	GA	**5XFP7**
3 ft.	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	GA	**5XFP8**
6 ft.	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	GA	**5XFP9**
6 ft.	14 AWG	SPT-3	NEMA 5-15P	Beige	0° to 140°F	No	Power First	**3AY45**
9 ft.	14 AWG	SPT-3	NEMA 5-15P	Beige	32° to 140°F	No	Power First	**3AY46**
9 ft.	12 AWG	SPT-3	NEMA 6-20P	Beige	32° to 167°F	No	Power First	**3AY47**
10 ft.	16 AWG	SJT	NEMA 5-15P	Black	-4° to 167°F	No	GA	**5XFR0**
10 ft.	16 AWG	SJT	NEMA 5-15P	Orange	0° to 167°F	No	Power First	**3AY48**
12 ft.	14 AWG	SPT-3	NEMA 5-15P	Beige	32° to 167°F	No	Power First	**3AY49**
15 ft.	16 AWG	SJT	NEMA 5-15P	Black	-40° to 167°F	No	GA	**5XFR1**
25 ft.	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD58**
50 ft.	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD59**
50 ft.	14 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD61**
50 ft.	12 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD62**
100 ft.	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD60**
100 ft.	12 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD63**
1 Outlet Slide Compression Lock								
2 ft.	14 AWG	SJTW	NEMA 5-15P	Orange with Black Stripe	-4° to 221°F	No	Power First	**52NY10**
3 Outlet Block								
3 ft.	14 AWG	SPT-3	NEMA 5-15P	Orange	32° to 167°F	No	Power First	**1FD74**
9 ft.	16 AWG	SPT-2	NEMA 1-15P	Brown	32° to 140°F	No	Power First	**1FD68**
9 ft.	16 AWG	SPT-2	NEMA 1-15P	White	32° to 140°F	No	Power First	**1FD69**
9 ft.	16 AWG	SJT	NEMA 5-15P	Beige	0° to 167°F	No	Power First	**1FD72**
15 ft.	16 AWG	SPT-2	NEMA 1-15P	White	32° to 140°F	No	Power First	**1FD70**
15 ft.	16 AWG	SPT-2	NEMA 1-15P	Brown	32° to 140°F	No	Power First	**1FD71**
25 ft.	16 AWG	SJT	NEMA 5-15P	Orange	0° to 167°F	No	Power First	**1FD73**


No. 1FD77


No. 55CW93


No. 4FZZ1 No. 4GAA3

Extension Cord Adapters

These adapters create compatibility between a device's power cord plug and a power outlet receptacle when they are of different types. They have a plug at one end that connects to the power source and a receptacle at the other end that the device plugs into. They are typically used to supply power to devices in industrial applications, such as power tools and machinery, where a variety of plug types and outlets are common. The current should be limited to the adapter's lowest rating to help prevent overheating.

Cord Length	Wire Size	Cord Type	Voltage	Connector Type	Plug Configuration	Color	Temp. Rating	Power Indicator	Brand	Item No.
1 Outlet										
9"	12 AWG	—	125VAC	NEMA L5-20R	NEMA 5-15P	Black	-40° to 140°F	No	Southwire	**55CW96**
10"	12 AWG	STW	120VAC	NEMA L5-20R	NEMA 5-15P	Orange	32° to 167°F	No	Power First	**1FD76**
10"	12 AWG	STW	120VAC	NEMA 5-15R	NEMA L5-20P	Orange	32° to 167°F	No	Power First	**1FD77**
12"	10 AWG	—	125VAC	NEMA TT-30R	NEMA 14-50P	Black	-40° to 140°F	No	Southwire	**55CW93**
17"	12 AWG	—	125VAC	NEMA 5-15R	NEMA L5-20P	Black	-40° to 140°F	No	Southwire	**55CW95**
17"	10 AWG	—	125VAC	NEMA TT-30R	NEMA L14-30P	Black	-40° to 140°F	No	Southwire	**55CW94**
2 Outlet Y Adapter										
3 ft.	12 AWG	SJTOW	120/240VAC	NEMA L5-20R	NEMA L14-20P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ3**
3 ft.	12 AWG	SJTOW	120/240VAC	NEMA 5-20R	NEMA L14-20P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ4**
3 ft.	10 AWG	SJTOW	120VAC	NEMA L5-20R	NEMA L5-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ1**
3 ft.	10 AWG	SJTOW	120VAC	NEMA 5-20R	NEMA L5-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ2**
3 ft.	10 AWG	SJTOW	120/240VAC	NEMA L5-20R	NEMA L14-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ5**
3 ft.	10 AWG	SJTOW	120/240VAC	NEMA 5-20R	NEMA L14-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ6**
3 Outlet										
2 ft.	12 AWG	—	120VAC	NEMA 5-15R	NEMA L5-20P	Yellow	-40° to 140°F	No	GA	**3KVJ6**
3 Outlet W-Shape										
2 ft.	12 AWG	STOW	125VAC	NEMA 5-15R	NEMA L5-20P	Yellow	-58° to 194°F	Yes	Power First	**4GAA3**


No. 52NY45


No. 52NY46


No. 53TZ17


No. 1FD78


No. 6YF65


No. 3AEP7


No. 5YNJ9

Extension Cord Accessories

These accessories adapt different plug configurations, test electric devices, or keep cords organized.

Plug Configuration	NEMA Connector	No. of Outlets	Brand	Item No.
Plug Adapter				
5-15P	5-15R	1	Power First	**52NY45**
5-15P	5-15R	3	Power First	**52NY46**
5-15P	5-15R	3	GE	**53TZ17**
Test Cord and Clip 8 ft.				
1-15P			Power First	**1FD78**
Hand Wind Cord Reel				
Holds Up to 100 ft . Electric Cord, Rope or Other Materials, 2 Storage Compartments			LumaPro	**6YF65**
Cable and Wire Organizer				
Cord Capacities 100 Ft- 16/3 or 14/3, 50 Ft- 12/3, 25 Ft- 30 Amp RV Power Cord and 50 Ft- ¼" Air Hose			Cordpro	**3AEP7**
Cord Capacities 150 Ft- 12/3, 100 Ft- 10/3, 100 Ft- ¼" Air Hose, 70 Ft- ⅜" Air Hose, 50 Ft- ½" Air Hose and 50 Ft- 30 Amp Shore Power Cord			Cordpro	**3AEP8**
T Carrying Handle,Large Hanghole,Easy Release Trigger,Stainless Steel Hinge, Large Securing Teeth Design, 2" Bundle, Holds Up To 50 lbs			Gardner Bender	**5NPN0**
T Carrying Handle,Large Hanghole,Easy Release Trigger,Stainless Steel Hinge, Large Securing Teeth Design, 3" Bundle Diameter, Holds Up To 100 lbs			Gardner Bender	**5NPN1**
T Carrying Handle,Large Hanghole,Easy Release Trigger,Stainless Steel Hinge, Large Securing Teeth Design, 4" Bundle Diameter, Holds Up To 150 lbs			Gardner Bender	**5YNJ9**

Flexiduct Extension Cords

These extension cords consist of flexible electrical cable with an integrated lay-flat cord. They are typically used in high-traffic areas to help minimize tripping hazards and reduce wear to the cord. They have a plug at one end that connects to the power source and a metal outlet box with two receptacles at the other end that devices plug into. They are ideal for use in office and commercial settings where there is heavy foot traffic, such as lobbies, hotels and conventions, and trade shows.

LINCOLN PLASTICS

Cord Length	BLACK Item No.	BEIGE Item No.	YELLOW Item No.
6 ft., 4 ft. Covered	3KUV3	—	—
8 ft., 6 ft. Covered	3KUV9	3KUV7	3KUW2
10 ft., 8 ft. Covered	3KUW6	3KUW4	3KUW8
12 ft., 10 ft. Covered	48FP90	48FP91	48FP92
14 ft., 12 ft. Covered	48FP93	48FP94	48FP95





No. 1FD82



No. 1TNB9

POWER 1 FIRST

GA GRAINGER APPROVED

Indoor Power Supply Cords

These cords are portable lengths of electrical cable used to connect devices and appliances to a power source in indoor applications. They are typically used on equipment that doesn't come with a power cord, such as dryers, ranges, and computer monitors. They have a molded plug at one end that connects to an electrical outlet and a socket or bare wire at the other end that is attached or wired to the device. The power cord should match the amperage rating of the device and plug configuration of the outlet.

Cord Length	Wire Size	Connec. Type	Max. Amps	Trade Designation	Jacket Material	Brand	Item No.
Power Cord							
NEMA 1-15P, 2 Conductors							
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD84**
NEMA 5-15P, 3 Conductors							
3 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD80**
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD82**
8 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	GA	**1FD81**
8 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1FD87**
8 ft	16 AWG	Bare Leads	13.0 A	SJO	Rubber	GA	**1FD86**
8 ft	14 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1FD92**
8 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	GA	**1FD91**
8 ft	12 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TMZ9**
8 ft	12 AWG	Bare Leads	15.0 A	SJO	Rubber	Power First	**1TNA1**
8 ft	12 AWG	Bare Leads	15.0 A	ST	PVC	Power First	**1FD93**
12 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD83**
12 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	GA	**1TNA2**
12 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1FD89**
12 ft	16 AWG	Bare Leads	13.0 A	SJO	Rubber	GA	**1FD88**
12 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	GA	**1TNA4**
12 ft	12 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TNA5**
Right Angle NEMA 6-15P, 3 Conductors							
8 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	Power First	**3AY39**
Coiled Power Cord							
NEMA 5-15P, 3 Conductors							
20 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1TNB9**
20 ft	14 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TNC1**
Right Angle NEMA 1-15P, 2 Conductors							
10 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**3AY41**
Power Cord Strain/Relief							
NEMA 5-15P, 3 Conductors							
6 ft	16 AWG	Blunt Cut	13.0 A	SJO	Rubber	GA	**1TNC2**
6 ft	14 AWG	Blunt Cut	15.0 A	SJO	Rubber	GA	**1TNC4**
Power Cord 1-Speed Switch							
NEMA 5-15P, 3 Conductors							
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1VEP4**
8 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNA7**
8 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNA8**
8 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNA9**
8 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB1**
8 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB2**
10 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNC5**
10 ft	16 AWG	Bare Leads	10.0 A	SJ	Rubber	Power First	**1KEG6**
10 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNC6**
10 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNC7**
10 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNC8**
12 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB3**
12 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB4**
12 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB5**
12 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB6**
12 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB7**



No. 5AJ55



No. 35ME18

Southwire FRIGIDAIRE

Power Supply Cords With Right Angle Plugs

These cords have a right angle plug at one end and a bare wire at the other, so they can be used in tight spaces to connect devices that don't come with a power cord to a power source.

Cord Length	Wire Size	Connec. Type	Max. Amps	Jacket Color	Brand	Item No.
Dryer Power Cord						
Right Angle NEMA 10-30P, 3 Conductors						
6 ft.	10 AWG	Eyelet	30.0	Gray	Southwire	**5AJ54**
Right Angle NEMA 14-30P, 4 Conductors						
6 ft.	10 AWG	Eyelet	30.0	Black	Southwire	**5AJ55**
Range Power Cord						
Right Angle NEMA 10-50P, 3 Conductors						
4 ft.	(1) 8 AWG, (2) 6 AWG	Eyelet	40.0	Gray	Frigidaire	**35ME18**
4 ft.	(1) 8 AWG, (2) 6 AWG	Eyelet	50.0	Gray	Frigidaire	**35ME21**
6 ft.	(1) 8 AWG, (2) 6 AWG	Eyelet	50.0	Gray	Frigidaire	**35ME20**
Right Angle NEMA 14-50P, 4 Conductors						
4 ft.	(2) 8 AWG, (2) 6 AWG	Eyelet	40.0	Black	Frigidaire	**35ME19**
4 ft.	(2) 8 AWG, (2) 6 AWG	Eyelet	50.0	Black	Frigidaire	**35ME22**
6 ft.	(2) 8 AWG, (2) 6 AWG	Eyelet	50.0	Black	Frigidaire	**35ME23**



No. 3KUZ7

No. 3KVA4

jds products, inc.

Sensing-Saf-Starts®

These cords are fitted with a safety device that prevents machines or equipment from accidentally restarting in the event of a power interruption. They are ideal for supplying power to tools with single-phase motors, such as table saws, drill presses, or other heavy equipment. They have a molded plug at one end that connects to an electrical outlet and a socket or bare wire at the other end that is attached or wired to the device.

Cord Length	Wire Size	Connec. Type	Max. Amps	Trade Designation	Jacket Material	Brand	Item No.
Anti-Restart Device 14" Cord On Male Plug End, 12" Cord On Female Receptacle End							
NEMA 5-15P, 3 Conductors							
2.1 ft.	14 AWG	NEMA 5-15R	15.0	SJTO	Rubber	Sensing-Saf-Starts	**3KUZ7**
Anti-Restart Device 20" Cord On Equipment Switch End							
Bare Wire, 3 Conductors							
9.6 ft.	14 AWG	Bare Leads	18.0	SJTO	Rubber	Sensing-Saf-Starts	**3KVA2**
9.6 ft.	14 AWG	Bare Leads	15.0	SJTO	Rubber	Sensing-Saf-Starts	**3KVA4**
Anti-Restart Device 20" Cord On Equipment Switch End, Molded Plug On Power End							
NEMA 5-15P, 3 Conductors							
9.6 ft.	14 AWG	Bare Leads	15.0	SJTO	Rubber	Sensing-Saf-Starts	**3KUZ9**


No. 53TY60


No. 55CW92


No. 5Z977


No. 2XYR3


No. 5Z975

Plug-In and Line Cord GFCIs

These GFCIs are used with power cords to help protect users from ground faults. They have an integrated circuit breaker that turns off the power when a current overload is detected, helping protect users from electrical burns, shock, or electrocution. They are commonly used in temporary power applications to provide protection where electrical circuits may come in contact with water, such as in garages or outdoors, and a standard GFCI receptacle is not available. Plug-in GFCIs plug directly into a wall outlet and have one or more receptacles that devices plug into. Inline GFCIs are lengths of cord with an outlet plug at one end and one or more receptacles at the other end that devices plug into.

Manual Reset Type—These GFCIs require the user to reset it after a power outage by pushing the reset button to restore power to the connected equipment. They are typically used in industrial or construction applications where a sudden resumption in power could be dangerous if equipment starts back up unexpectedly, such as power drills, saws, and grinders.

Automatic Reset Type—These GFCIs automatically reset after a power interruption to immediately restart the connected device as soon as the power supply is restored. They're typically used with equipment intended for continuous use where a temporary power failure is likely and undesirable, such as pumps, pressure washers, portable signs or lighting, and engine heaters.

Cord Length	Amps	Voltage Rating	Plug Configuration	Receptacle Configuration	No. of Outlets	No. of Wires	Color	Encl. Rating	Brand	Item No.
GFCI Body Manual Reset										
No Cord	20	120VAC	User Supplied	User Supplied	0	3	Black	Rainproof	Power First	**2XYR7**
Line Cord GFCI Automatic Reset										
1.5 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Watertight	Hubbell	**6A675**
1.5 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Outdoor	Power First	**11X432**
2 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**11X428**
6 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Watertight	Hubbell	**6A676**
6 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**11X426**
6 ft.	30	120/240VAC	Bare Wire	Bare Wire	0	4	Yellow	NEMA 4X	Hubbell	**1DJH5**
6 ft.	30	250VAC	Bare Wire	Bare Wire	0	4	Yellow	NEMA 4X	Hubbell	**1DJH9**
6 ft.	30	120/208VAC	Bare Wire	Bare Wire	0	5	Yellow	NEMA 4X	Hubbell	**1DJH7**
9 ft.	15	120VAC	NEMA 5-15P	IEC 320	1	3	Black	Rainproof	Power First	**2XYT2**
10 ft.	30	120VAC	Bare Wire	Bare Wire	0	3	Yellow	NEMA 4X	Hubbell	**1DJG7**
15 ft.	15	120VAC	NEMA 5-15P	Bare Wire	0	3	Yellow	Watertight	Hubbell	**3DZP5**
25 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Weatherproof	Hubbell	**3D358**
25 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**11X427**
25 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**11X435**
25 ft.	30	120VAC	Bare Wire	Bare Wire	0	3	Yellow	NEMA 4X	Hubbell	**1DJG8**
25 ft.	30	240VAC	Bare Wire	Bare Wire	0	3	Yellow	NEMA 4X	Hubbell	**1DJH3**
50 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Outdoor	Power First	**11X434**
50 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**11X436**
100 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**11X437**
Line Cord GFCI Manual Reset										
1.5 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Watertight	Hubbell	**4CT53**
2 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Outdoor	Power First	**5YL47**
2 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**2XYR8**
2 ft.	20	120VAC	NEMA 5-20P	NEMA 5-20R	1	3	Yellow	Rainproof	Power First	**2XYR6**
2.0 ft.			NEMA 6-20P	NEMA 6-20R	1		Yellow	Rainproof	Southwire	**55CW90**
3 ft.	20	120VAC	NEMA 5-20P	NEMA 5-20R	1	3	Yellow	Weatherproof	Hubbell	**3HZ78**
6 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**2XYR4**
6 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Watertight	Hubbell	**4CT54**
6 ft.	30	120/240VAC	Bare Wire	Bare Wire	0	4	Yellow	NEMA 4X	Hubbell	**1DJH4**
6 ft.	30	250VAC	Bare Wire	Bare Wire	0	4	Yellow	NEMA 4X	Hubbell	**1DJH8**
6 ft.	30	120/208VAC	Bare Wire	Bare Wire	0	5	Yellow	NEMA 4X	Hubbell	**1DJH6**
6 ft.	20	125VAC	NEMA 5-20P	NEMA 5-20R	1	3	Yellow	Rainproof	Power First	**53TY60**
6.0 ft.			NEMA 6-20P	NEMA 6-20R	1		Yellow	Rainproof	Southwire	**55CW92**
11 ft.	30	240VAC	Bare Wire	Bare Wire	0	3	Yellow	NEMA 4X	Hubbell	**1DJG9**
15 ft.	15	120VAC	NEMA 5-15P	Bare Wire	0	3	Yellow	Watertight	Hubbell	**4CT55**
25 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**2XYR5**
25 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Weatherproof	Hubbell	**4CT52**
25 ft.	30	240VAC	Bare Wire	Bare Wire	0	3	Yellow	NEMA 4X	Hubbell	**1DJH1**
25 ft.	20	125VAC	NEMA 5-20P	NEMA 5-20R	1	3	Yellow	Rainproof	Power First	**53TY61**
25 ft.			NEMA 6-20P	NEMA 6-20R	1		Yellow	Rainproof	Southwire	**55CW91**
Plug-In GFCI User Supplied Cord Automatic Reset										
No Cord	15	125VAC	NEMA 5-15P	User Supplied	0	3	Yellow	Rainproof	Power First	**11X423**
No Cord	15	125VAC	NEMA 5-15P	User Supplied	0	3	Black	Rainproof	Power First	**11X424**
Plug-In GFCI User Supplied Cord Manual Reset										
No Cord	15	120VAC	NEMA 5-15P	User Supplied	0	3	Yellow	Rainproof	Power First	**2XYR1**
No Cord	15	120VAC	NEMA 5-15P	User Supplied	0	3	Black	Rainproof	Power First	**2XYR2**
No Cord	15	120VAC	NEMA 5-15P	User Supplied	0	3	Black	Indoor	Hubbell	**4HD20**
No Cord	15	120VAC	NEMA 5-15P	User Supplied	0	3	Yellow	Indoor	Hubbell	**4HD21**
Plug-In GFCI with Cord Automatic Reset										
5 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**11X431**
6 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	4	3	Yellow	Outdoor	Power First	**11X430**
9'	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Outdoor	Power First	**11X425**
15 ft.	15	120VAC	NEMA 5-15P	Bare Wire	0	3	Black	NEMA 3R	Hubbell	**1VCT7**
Plug-In GFCI with Cord Manual Reset										
1 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Weatherproof	Hubbell	**4HD19**
2 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Power First	**5YL45**
6 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	4	3	Yellow	NEMA 3R	Hubbell	**5Z977**
6 ft.	20	120VAC	NEMA 5-20P	NEMA 5-20R	4	3	Yellow	NEMA 3R	Hubbell	**5Z978**
6 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Rainproof	Power First	**53TY62**
6 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	4	3	Yellow	Outdoor	Power First	**53TY63**
9'	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**2XYR3**
25 ft.	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Rainproof	Power First	**53TY64**
25 ft.	15	120VAC	NEMA 5-15P	NEMA 5-15R	3	3	Yellow	Outdoor	Southwire	**9MG38**
Plug-In GFCI without Cord Automatic Reset										
No Cord	15	120VAC	NEMA 5-15P	NEMA 5-15R	3	3	Ivory	Indoor	Hubbell	**5Z975**
No Cord	15	125VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Indoor	Power First	**11X429**
No Cord	15	125VAC	NEMA 5-15P	NEMA 5-15R	5	3	White	Indoor	Power First	**11X433**
Plug-In GFCI without Cord Manual Reset										
No Cord	15	120VAC	NEMA 5-15P	NEMA 5-15R	1	3	Yellow	Indoor	Power First	**5YL43**

Hardwired 30A GFCIs

These GFCIs are hardwired to machinery or distribution boards. When a current overload is detected, it will trip a circuit breaker to stop the power and protect users from burns, shock, or electrocution. They're typically used in permanent power applications where electrical circuits may come in contact with moisture. UL Listed and CSA Certified.


No. 1DJE9

Voltage Rating	Color	Phase	WITHOUT ALARM Item No.	WITH ALARM Item No.
Automatic				
120	Yellow	1	**1DJF2**	**1DJF3**
120/240	Yellow	1	—	**1DJF9**
120/240	Yellow	3	**1DJG2**	—
240	Yellow	1	**1DJF6**	**1DJF7**
Manual				
120	Black	1	**1DJE9**	**1DJF1**
120/208	Black	3	**1DJG1**	—
120/240	Black	1	—	**1DJF8**
240	Black	3	**1DJG3**	—


No. 53TZ09


No. 52NY38

Surge Protector Plug Adapters

These adapters plug directly into power outlets to provide protection against power surges. In the event of an overload, they will trip the integrated circuit breaker to prevent damage to equipment.

No. of Outlets	Rated Joules	Color	Power Indicator	Circuit Breaker	Telephone/ Fax Surge Protection	USB Protection	Item No.
GE							
2	450	White	Yes	No	No	2	**53TZ09**
Power First							
1	250	White	Yes	No	No	No	**52NY47**
3	250	White	Yes	No	No	No	**52NY48**
5	250	Light Gray	Yes	No	Yes	No	**52NY44**
5	250	Black	Yes	No	No	No	**52NY49**
6	1200	Black	Yes	No	No	No	**52NY38**
Tripp Lite							
2	1410	Black	Yes	Yes	No	No	**4HHH3**

Outlet Strips

These are lengths of flexible cable with a block of electrical sockets that supply power to multiple devices at the same time from one power outlet. They're typically used to provide additional outlets in areas that don't have enough wall receptacles for the number of devices. They are portable and can be unplugged and moved to another location as needed. Outlet strips are ideal for homes, offices, medical facilities, and industrial environments where power distribution to several electrical devices is a priority. The outlet strip should match the total amperage draw of the connected devices to help prevent circuit overload.

Total Number of Outlets	Cord Length	Max. Amps	Plug Configuration	Receptacle Configuration	Color	Power Indicator	Circuit Breaker	No. of Power Switches	L	W	Brand	Item No.
Commercial and Industrial												
4	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	1	8 ½ in	7 in	Power First	**53XH88**
6	15 ft	20.0 A	NEMA 5-20P	NEMA 5-20R	Gray	Yes	1	1	12 ½ in	2 ½ in	Tripp Lite	**2KGD7**
6	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	1	12 in	5 ¾ in	Power First	**53XH87**
10	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	13 in	3 39/64 in	Power First	**52NY34**
Healthcare Facility												
4	10 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	9 15/16 in	4 9/32 in	Tripp Lite	**25D145**
4	10 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	8 35/64 in	2 ½ in	Tripp Lite	**15F826**
4	15 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	8 21/32 in	1 ½ in	Tripp Lite	**1AYB3**
4	15 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 ¾ in	2 ½ in	Tripp Lite	**2GZR4**
4	15 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	8 21/32 in	1 ½ in	Tripp Lite	**5DLJ2**
6	1.5 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 ¾ in	2 ½ in	Tripp Lite	**2GZR6**
6	6 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 ¾ in	1 ½ in	Tripp Lite	**1AYB4**
6	15 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 ¾ in	1 ½ in	Tripp Lite	**3TA14**
6	15 ft	15.0 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	13 ¾ in	1 ½ in	Tripp Lite	**5DLJ3**
6	15 ft	20.0 A	HG NEMA 5-120P	HG NEMA 5-20R	White	No	2	0	13 ¾ in	2 ½ in	Tripp Lite	**43MC71**
Home and Office												
4	3 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	8 1/64 in	1 55/64 in	Power First	**52NY40**
6	3 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	11 1/64 in	1 55/64 in	Power First	**52NY41**
6	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	9 5/8 in	1 37/64 in	Power First	**52NY43**
Workbench and Cabinet												
6	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	36 in	1 29/32 in	Hubbell	**1MBU2**
6	6 ft	20.0 A	NEMA 5-20P	NEMA 5-15R	White	No	1	1	36 in	1 29/32 in	Hubbell	**1MBV5**
8	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	48 in	2 1/8 in	Power First	**3W211**
8	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	24 in	1 5/8 in	Power First	**52NY32**
8	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	0	48 in	1 5/8 in	Power First	**52NY36**
10	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	60 in	1 29/32 in	Hubbell	**1MBU4**
10	6 ft	20.0 A	NEMA 5-20P	NEMA 5-15R	White	No	1	1	60 in	1 29/32 in	Hubbell	**1MBV7**
10	6 ft	20.0 A	NEMA 5-20P	NEMA 5-20R	Gray	No	1	0	48 in	1 5/8 in	Power First	**2MV41**
12	6 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	77 in	1 5/8 in	Power First	**52NY33**
12	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	36 in	1 ½ in	Tripp Lite	**2MY47**
16	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	70 in	1 5/8 in	Power First	**52NY31**
20	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	60 in	1 ½ in	Tripp Lite	**2MY48**
24	15 ft	15.0 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	0	72 in	2 1/8 in	Power First	**2MV37**



Outlet Strips With Surge Protection

These outlet strips protect connected devices from damage due to unexpected voltage increases. They have a surge protector that absorbs the excess voltage and diverts it to the ground wire, preventing it from reaching the connected equipment. A surge protector's joule rating determines how much energy it can absorb before it fails. A higher number indicates greater protection. These outlet strips are typically used to provide additional outlets in areas that don't have enough wall receptacles for the number of devices. They are portable and can be unplugged and moved to another location as needed. They are suitable for homes, offices, medical facilities, and industrial environments where protection from power spikes is needed.

Note: For product Standards and Specifications, search for the individual sku number on Grainger.com® and see Technical Specs.

Total Number of Outlets	Cord Length	Rated Joules	Max. Surge Current	Max. Amps	Plug Configuration	Receptacle Configuration	Color	Power Indicator	Coax Surge Protection	Telephone Fax Surge Protection	USB Protection	L	W	Brand	Item No.
Commercial and Industrial															
4	6 ft.	3330	135kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	6"	3½"	Tripp Lite	**5JK03**
6	6 ft.	3330	135kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	7"	3½"	Tripp Lite	**5JK04**
6	6 ft.	3330	92kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	Yes	0	7"	3½"	Tripp Lite	**5JK07**
6	6 ft.	1200	45kA	15.0	NEMA 5-15P	NEMA 5-15R	Beige	Yes	No	No	0	1¾"	1¾"	Power First	**53XH85**
6	15 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	14¾"	2 5/32"	Power First	**52NY60**
8	12 ft.	3840	150kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9"	3½"	Tripp Lite	**5JK06**
8	12 ft.	3840	150kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9"	3½"	Tripp Lite	**5JK05**
8	12 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	10 15/64"	5 5/16"	Power First	**52NY58**
8	12 ft.	3840	150kA	12.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	Yes	0	9"	2½"	Tripp Lite	**33L723**
8	25 ft.	3840	150kA	12.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9"	3½"	Tripp Lite	**2GZR3**
8	25 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	10 15/64"	5 5/16"	Power First	**52NY62**
Home and Office															
4	4 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	8 1/64"	1 55/64"	Power First	**52NY67**
6	4 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	11 1/64"	1 55/64"	Power First	**52NY52**
6	6 ft.	2100	35.5kA	15.0	NEMA 5-15P	NEMA 5-15R	Black	Yes	No	No	2	13 39/64"	2 57/64"	Tripp Lite	**30EF41**
6	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	2	13"	1 55/64"	Power First	**52NY54**
6	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	9 21/32"	1⅞"	Power First	**52NY55**
6	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Black	Yes	No	No	0	11 1/64"	1 55/64"	Power First	**52NY56**
6	15 ft.	250	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	9 21/32"	1 9/16"	Power First	**52NY42**
7	4 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	12 63/64"	2¾"	Power First	**52NY66**
7	4 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11½"	2"	GE	**53TZ11**
7	6 ft.	1080	72kA	15.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	15"	3 13/32"	Tripp Lite	**15D976**
7	6 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11½"	2"	GE	**53TZ12**
7	6 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	2	10"	3"	GE	**53TZ16**
7	8 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	Black	No	No	No	0	11½"	2"	GE	**53TZ10**
7	12 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11½"	2"	GE	**53TZ13**
7	15 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	2	10"	3"	GE	**53TZ15**
7	25 ft.	1080	45kA	15.0	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11½"	2"	GE	**53TZ14**
8	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	10 53/64"	5 9/64"	Power First	**52NY57**
8	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	10 53/64"	5 9/64"	Power First	**52NY59**
8	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	10½"	5 9/64"	Power First	**52NY64**
8	10 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	10½"	5 9/64"	Power First	**52NY63**
8	10 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	Black	Yes	Yes	Yes	0	10½"	5 9/64"	Power First	**52NY65**
8	25 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	10 53/64"	5 9/64"	Power First	**52NY53**
10	6 ft.	1050	30kA	15.0	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	11 13/16"	5 9/64"	Power First	**52NY61**
10	8 ft.	3330	13.5kA	15.0	NEMA 5-15P	NEMA 5-15R	Black	Yes	Yes	Yes	0	11 39/64"	5"	Tripp Lite	**33L738**
Hospital and Medical Facility															
4	6 ft.	1410	120kA	15.0	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13¾"	2½"	Tripp Lite	**54VH63**
4	15 ft.	1410	60kA	15.0	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13¾"	2½"	Tripp Lite	**6RHV9**
6	6 ft.	1050	19.5kA	15.0	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	13¾"	2½"	Tripp Lite	**19N899**
6	10 ft.	1050	19.5kA	15.0	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	13¾"	2½"	Tripp Lite	**19N901**
6	15 ft.	1050	19.5kA	15.0	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13¾"	2½"	Tripp Lite	**3TA12**
6	15 ft.	3330	48kA	12.0	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	7"	3½"	Tripp Lite	**5JJ97**
Workbench and Cabinet															
24	15 ft.	450	22kA	15.0	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	72"	1½"	Tripp Lite	**2KGE2**











Floor Cable Covers

- Durable, flexible, and nonmetallic
- Preslit bottom (except ¼" to ¾" Checker models)

Tapered covers reduce tripping hazards and protect cords and cables from pedestrian traffic.

No. of Channels	Max. Cable Dia.	Material	L	W	Cable Protector Height	Channel Width	Cable Protector Channel Height	BLACK Item No.	BROWN Item No.	BEIGE Item No.	GRAY Item No.	YELLOW Item No.	BLACK AND YELLOW Item No.
Power First													
1	¼"	PVC	10 ft.	2 3/4"	1/32 in	½"	¼ in	**4CEJ1**	**4CEJ7**	**4CEH9**	**4CEJ2**	**4CEJ8**	—
1	½"	PVC	5 ft.	3"	¾ in	¾"	½ in	**4CEJ3**	**4CEK3**	**4CEK1**	**4CEK5**	**4CEJ5**	—
1	½"	PVC	25 ft.	3"	¾ in	¾"	½ in	**4CEJ4**	**4CEK2**	**4CEJ9**	**4CEK4**	**4CEH7**	—
1	¾"	PVC	5 ft.	3¼"	1 3/64 in	1¼"	¾ in	**4CEJ6**	—	—	—	**4CEK8**	—
1	¾"	PVC	25 ft.	3¼"	1 3/64 in	1¼"	¾ in	**4CEK6**	—	—	**4CEK7**	**4CEH8**	—
1	1¼"	PVC	5 ft.	5¼"	1 39/64 in	2"	1 ¼ in	**4CEH5**	—	—	—	**4CEH6**	—
Hubbell Wiring Device-Kellems													
1	5/16 in	PVC	10 ft	2 ¾ in	1/32 in	19/32 in	5/16 in	**5D684**	**5D690**	**5D683**	**5D685**	**5D691**	—
1	½ in	PVC	5 ft	3 in	¾ in	¾ in	½ in	**5D686**	**5D695**	**5D693**	**5D697**	**5D688**	—
1	½ in	PVC	25 ft	3 in	¾ in	¾ in	½ in	**5D687**	**5D694**	**5D692**	**5D696**	**2GTC5**	—
1	¾ in	PVC	5 ft	3 ¼ in	1 1/64 in	1 ¼ in	¾ in	**5D689**	—	—	—	**5D700**	—
1	¾ in	PVC	25 ft	3 ¼ in	1 1/64 in	1 ¼ in	¾ in	**5D698**	—	—	**5D699**	**2GTC6**	—
1	1 ¼ in	PVC	3 ft	5 ½ in	1 45/64 in	1 ¾ in	1 ¼ in	**2GTC1**	—	—	—	—	—
1	1 ¼ in	PVC	3 ft	5 ½ in	1 ¾ in	1 ¾ in	1 ¼ in	—	—	—	—	**2GTC2**	—
1	1 ¼ in	PVC	5 ft	5 ½ in	1 ¾ in	1 ¾ in	1 ¼ in	**2GTC3**	—	—	—	—	—
1	1 ¼ in	PVC	5 ft	5 ½ in	1 45/64 in	1 ¾ in	1 ¼ in	—	—	—	—	**2GTC4**	—
D-Line, Includes Linkable Pins													
1	1 1/32 in	Flexible PVC	6 ft	2 ⅝ in	9/16 in	9/16 in	1 1/32 in	**19RZ85**	—	—	—	—	—
1	1 3/32 in	Flexible PVC	6 ft	3 ¼ in	9/16 in	1 3/16 in	1 3/32 in	**19RZ86**	—	—	—	—	**19RZ87**
Checkers													
1	¼ in	Flexible Rubber	10 ft	3 in	7/16 in	½ in	¼ in	**5MKH5**	—	—	—	—	—
1	¾ in	Flexible Rubber	10 ft	3 ¼ in	1 in	1 in	¾ in	**5MKH8**	—	—	—	—	—
1	1 in	Flexible Rubber	5 ft	5 ¾ in	1 ½ in	1 in	1 in	**5MKJ3**	—	—	—	—	—
1	1 ¼ in	Flexible Rubber	5 ft	6 in	1 ½ in	1 ¼ in	1 ¼ in	**5MKJ4**	—	—	—	—	—
1	1 ½ in	Flexible Rubber	5 ft	6 in	2 in	1 ½ in	1 ½ in	**5MKJ5**	—	—	—	—	—
2	¼ in	Flexible Rubber	10 ft	3 in	7/16 in	½ in	¼ in	**5MKH6**	—	—	—	—	—
2	¾ in	Flexible Rubber	5 ft	5 ¾ in	1 in	1 in	¾ in	**5MKJ1**	—	—	—	—	—
2	¾ in	Flexible Rubber	10 ft	5 ¾ in	1 ⅛ in	1 in	¾ in	**5MKJ2**	—	—	—	—	—
3	½ in	Flexible Rubber	10 ft	3 ½ in	¾ in	¾ in	½ in	**5MKH7**	—	—	—	—	—
3	¾ in, (2) 7/16 in	Flexible Rubber	5 ft	4 ½ in	1 in	¾ in	¾ in	**5MKH9**	—	—	—	—	—
3	¾ in	Flexible Rubber	10 ft	4 ½ in	1 in	¾ in	¾ in	**5MKJ0**	—	—	—	—	—
Carpet Traction Kit, 5 ft								**22F236**	—	—	—	—	—
Carpet Traction Kit, 10 ft								**22F237**	—	—	—	—	—

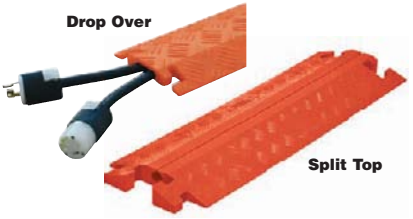


ULTRATECH INTERNATIONAL, INC.

Sidewinder Cable Protectors

Designed to help protect cords and cables and avoid tripping hazards. Articulates left and right to turn corners and adapt to the layout of rooms while maintaining full protection for the cables. Flexible and maintains a flat profile. Modular design and segmented construction; just slide and click to connect additional segments with no tools needed. ABS plastic construction is lightweight yet allows vehicles to safely drive over cords, hoses, and cables.

Length	W	H	Channel Width	Channel Height	BLACK, YELLOW Mfr. Model	BLACK, YELLOW Item No.	BLACK Mfr. Model	BLACK Item No.
Small								
13 ½ in	3 in	¾ in	¾ in	⅜ in	1801	**14N917**	1803	**14N919**
24 ft 6 in	3 in	¾ in	¾ in	⅜ in	1820	**23Z433**	—	—
39 ½ in	3 in	¾ in	¾ in	⅜ in	1800	**14N916**	1802	**14N918**
Medium								
14 ⅛ in	9 ¾ in	1 ⅜ in	3 in	¾ in	1831	**30KD73**	1833	**30KD75**
33 in	9 ¾ in	1 ⅜ in	3 in	¾ in	1830	**30KD72**	1832	**30KD74**
Large								
14 ⅛ in	13 ⅜ in	2 ⅛ in	3 in	1 ½ in	1841	**30KD77**	1843	**30KD79**
34 in	13 ⅜ in	2 ⅛ in	3 in	1 ½ in	1840	**30KD76**	1842	**30KD78**





LINEBACKER CABLE MANAGEMENT · FASTLANE CABLE PROTECTORS · GUARDDOG Watches for People Who Work

Drop-Over and Split-Top Cable Protectors

- Modular design

T shaped protectors offer a quick solution to shield minimal runs of cable and hose lines. Protect cables and hoses up to 2.25" in outside diameter. Feature patented T-connectors to extend to any length. Provide solutions for heavy-duty, high-load bearing operations as well as other general purpose applications.

L shaped protectors shield cables and hoses up to 1" O.D. Designed with durable polyurethane and feature heavy-duty, patented L-Connectors to extend to any length. Also designed with patented 5-bar plate surface that provides maximum traction for carts and pedestrian traffic. Low-profile design is compact, easy to setup, disassemble and store, and fit multiple cable sizes.

Dog Bone Protectors are lightweight and easy to transport, set-up, disassemble, and store. Feature all-weather polyurethane construction and a hinged lid for easy cable placement.

Connection Style	Load Capacity	Style	No. of Channels	Length	W	H	Channel Width	Channel Height	Brand	Mfr. Model	BLACK Item No.	ORANGE Item No.	YELLOW Item No.
T Shaped	17,000 lb/Axle, 8500 lb/Tire	Drop Over	1	36 in	14 ¼ in	3 in	2 ¼ in	2 ¼ in	Linebacker	CP1X225-GP-DO	—	**5MKH3**	—
	17,000 lb/Axle, 8500 lb/Tire	Split Top	1	36 in	14 ¼ in	3 in	2 ¼ in	2 ¼ in	Linebacker	CP1X225-GP	—	**5MKH4**	**39AM94**
	11,700 lb/Tire, 23,400 lb/Axle	Drop Over	1	36 in	11 ½ in	1 ⅝ in	1 ¼ in	1 ¼ in	Linebacker	CP1X125-GP-DO	—	**3KUT9**	—
	11,700 lb/Tire, 23,400 lb/Axle	Split Top	1	36 in	11 ½ in	1 ⅝ in	1 ¼ in	1 ¼ in	Linebacker	CP1X125-GP	—	**3KWX8**	**39AM93**
L Shaped	1050 lb/Tire, 2100 lb/Axle	Drop Over	1	36 in	5 ¼ in	¾ in	1 ½ in	½ in	Fastlane	FL1X1.5	**22F232**	**3KUP5**	—
	1050 lb/Tire, 2100 lb/Axle	Drop Over	1	36 in	10 ¾ in	1 ½ in	4 in	1 in	Fastlane	FL1X4	**22F233**	**3KUP7**	—
	1050 lb/Tire, 2100 lb/Axle	Drop Over	2	36 in	10 ¾ in	1 ½ in	1 ¾ in	1 in	Fastlane	FL2X1.75	**22F235**	**22F234**	—
Dog Bone	10,500 lb/Tire, 21,000 lb/Axle	Drop Over	3	18 in	19 ¾ in	2 in	3 ¼ in	1 ¼ in	Guard Dog	GD3-DO	**32RX22**	**32RX21**	**32RX23**

Gripper Style Cable Protectors

Connectors lock multiple cable protectors tightly together to provide a safe crossing for vehicle and pedestrian traffic, and protect valuable electrical cables and hose lines. They feature a modular, interlocking design that is ideal for use in most public entertainment venues, light commercial, and utility applications. Constructed of maintenance free polyurethane, and ergonomically designed to fit your hand for easy handling and transport. When compared to other rubber manufactured cable protectors, 3-Channel No. 32RX19 is up to 50% lighter without compromising the required strength and durability, and protects cables and hoses 2.25" in dia. 5-Channel No. 32RX20 is up to 75% lighter without compromising the required strength and durability, and protects hoses and cables 1.25" in dia.

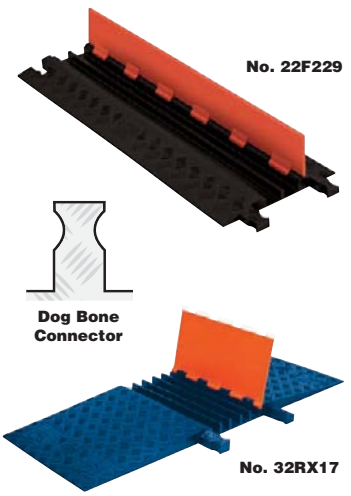
Connection Style	No. of Channels	Load Capacity	Length	W	H	Channel Width	Channel Height	Item No.
Gripper	3	5000 lb	36 in	18 ¼ in	2 ¾ in	2 ¼ in	2 ¼ in	**32RX19**
Gripper	5	5000 lb	36 in	16 ½ in	1 ½ in	1 ¼ in	1 ¼ in	**32RX20**



Dog Bone Style Cable Protectors

Lightweight and easy to transport, set up, disassemble and store. All-weather polyurethane construction. Hinged lid provides easy cable replacement. Low-Profile models offer safe and easy crossing for vehicle and pedestrian traffic.

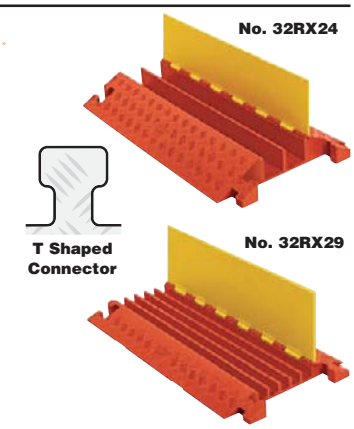
Connection Style	No. of Channels	Load Capacity	Color	Length	W	H	Channel Width	Channel Height	Mfr. Model	Item No.
Low Profile										
Dog Bone	1	13,000 lb/Tire, 26,000 lb/Axle	Black, Orange	36 in	10 13/16 in	1 ¼ in	2 ¼ in	⅝ in	GD1X75-ST-O/B	**22F231**
Dog Bone	1	13,000 lb/Tire, 26,000 lb/Axle	Black, Orange	36 in	27 ¼ in	1 ¼ in	2 ¼ in	1 ¼ in	GD1X75-O/B	**22F230**
Dog Bone	2	13,000 lb/Tire, 26,000 lb/Axle	Black, Orange	36 in	12 in	1 ½ in	1 ½ in	1 ¼ in	GD2X75-ST-O/B	**22F229**
Dog Bone	2	13,000 lb/Tire, 26,000 lb/Axle	Black, Orange	36 in	28 ⅜ in	1 ¼ in	1 ½ in	1 ¼ in	GD2X75-O/B	**22F228**
Dog Bone	3	17,000 lb/Tire, 34,000 lb/Axle	Black, Orange	36 in	13 ¾ in	1 ¼ in	1 ½ in	1 ¼ in	GD3X75-ST-O/B	**22F227**
Dog Bone	3	17,000 lb/Tire, 34,000 lb/Axle	Black, Orange	36 in	30 ¼ in	1 ¼ in	1 ½ in	1 ¼ in	GD3X75-O/B	**22F226**
Dog Bone	5	24,000 lb/Tire, 48,000 lb/Axle	Black, Orange	36 in	33 ¼ in	1 ¼ in	1 ¼ in	1 ¼ in	GD5X75-O/B	**22F224**
Dog Bone	5	24,000 lb/tire, 48,000 lb/Axle	Black, Orange	36 in	17 in	1 ¼ in	1 ¼ in	1 ¼ in	GD5X75-ST-O/B	**22F225**
ADA Compliant										
Dog Bone	5	10,500 lb/Tire, 21,000 lb/Axle	Black, Orange	18 in	50 in	2 in	1 ¼ in	1 ¼ in	GD5X125-ADA-O/B	**32RX15**
Dog Bone	5	10,500 lb/Tire, 21,000 lb/Axle	Black	18 in	50 in	2 in	1 ¼ in	1 ¼ in	GD5X125-ADA-B/B	**32RX16**
Dog Bone	5	10,500 lb/Tire, 21,000 lb/Axle	Blue, Orange	18 in	50 in	2 in	1 ¼ in	1 ¼ in	GD5X125ADAO/BLU	**32RX17**
General Purpose										
Dog Bone	3	14,210 lb/Tire, 28,420 lb/Axle	Black, Orange	36 in	20 in	3 in	2 ¼ in	2 ¼ in	GD3X225-O/B	**5MKK3**
Dog Bone	5	10,500 lb/Tire, 21,000 lb/Axle	Black, Orange	36 in	19 ¾ in	1 ⅞ in	1 ¼ in	1 ¼ in	GD5X125-O/B	**5MKJ8**
General Purpose 5-Channel Accessories										
End Cap Pair, 1 Male/1 Female	5	10,500 lb/Tire, 21,000 lb/Axle	Orange	8 45/64 in	19 ¾ in	2 in	1 ¼ in	1 ¼ in	GDEC5X125-O	**5MKJ9**
45 Degrees Right Turn	5	10,500 lb/Tire, 21,000 lb/Axle	Black, Orange	24 in	19 ¾ in	2 in	1 ¼ in	1 ¼ in	GDT5X125-R-O/B	**5MKK0**
45 Degrees Left Turn	5	10,500 lb/Tire, 21,000 lb/Axle	Black, Orange	24 in	19 ¾ in	2 in	1 ¼ in	1 ¼ in	GDT5X125-L-O/B	**5MKK1**
4-Way Cross	5	10,500 lb/Tire, 21,000 lb/Axle	Black, Orange	28 ½ in	19 ¾ in	2 in	1 ¼ in	1 ¼ in	GDCR5X125-O/B	**5MKK2**
Modular Hose Bridge	2	20,150 lb/Tire, 40,300 lb/Axle	Black, Orange	36 in	13 in	2 in	1 ½ in	1 ½ in	CL2X150-5GD-O	**5MKK4**



T Shape Style Cable Protectors

Designed with hinged lid that provides a safe crossing for vehicles and pedestrian traffic. Protects cables and hose lines from damage. Modular, interlocking design is ideal for use in oil and gas applications, mining, military, and other industrial environments with heavy trucks and forklifts. No. 32RX24 protects cables and hoses up to 3.25" in dia; No. 32RX25 protects cables and hoses up to 2.25" in dia; and No. 32RX29 protects hoses and cables up to 1.3" in dia.

Connection Style	No. of Channels	Load Capacity	Color	Length	W	H	Channel Width	Channel Height	Mfr. Model	Item No.
T Shaped	2	10,880 lb/Tire, 21,760 lb/Axle	Orange, Yellow	36 in	22 in	4 ¼ in	3 ¼ in	3 ¼ in	CP2X325-Y/O	**32RX24**
T Shaped	3	14,210 lb/Tire, 28,420 lb/Axle	Orange, Yellow	36 in	20 in	3 in	2 ¼ in	2 ¼ in	CP3X225-Y/O	**32RX25**
T Shaped	5	20,150 lb/Tire, 40,300 lb/Axle	Orange, Yellow	36 in	20 in	2 ¼ in	1 ¼ in	1 ¼ in	CP5X125-Y/O	**32RX29**
3-Channel Accessories										
End Cap Pair, 1 Male/1 Female	3	14,210 lb/Tire, 28,420 lb/Axle	Orange	15 19/32 in	20 in	3 in	2 ¼ in	2 ¼ in	CPEC3X225-O	**32RX26**
45° Left Turn	3	14,120 lb/Tire, 28,240 lb/Axel	Orange, Yellow	25 13/64 in	20 in	3 in	2 ¼ in	2 ¼ in	CPT3X225-L-Y/O	**32RX27**
45° Right Turn	3	14,120 lb/Tire, 28,240 lb/Axel	Orange, Yellow	25 13/64 in	20 in	3 in	2 ¼ in	2 ¼ in	CPT3X225-R-Y/O	**32RX28**
Ramp, ADA Compliant	3	20,150 lb/Tire, 40,300 lb/Axle	Blue	36 in	34 ¾ in	3 in	1 ¼ in	1 ¼ in	CPRP-3-BLU	**32RX33**
5-Channel Accessories										
End Cap Pair, 1 Male/1 Female	5	20,150 lb/Tire, 40,300 lb/Axle	Orange	15 19/32 in	20 in	2 ¼ in	1 ¼ in	1 ¼ in	CPEC5X125-O	**32RX30**
45° Left Turn	5	20,150 lb/Tire, 40,300 lb/Axle	Orange, Yellow	25 13/64 in	20 in	2 ¼ in	1 ¼ in	1 ¼ in	CPT5X125-L-Y/O	**32RX31**
45° Right Turn	5	20,150 lb/Tire, 40,300 lb/Axle	Orange, Yellow	25 13/64 in	20 in	2 ¼ in	1 ¼ in	1 ¼ in	CPT5X125-R-Y/O	**32RX32**



CableTrak™ Hose and Cable Carrier System

- Easy assembly with flat-blade screwdriver
- Install vertically or horizontally
- Fiberglass-reinforced, nonabrasive black nylon

Flexible, self-lubricating carriers guide and protect hoses and cables installed between fixed and moving sections of a machine. Cable is installed through the carrier's flip-top for minimal abrasion. Excellent high-speed performance.

Outside W	H	Cavity Width	Cavity Height	Mfr. Model	CABLETRAK(R) WITH BRACKETS L	CABLETRAK(R) WITH BRACKETS Item No.	CABLETRAK(R) L	CABLETRAK(R) Item No.	BRACKET KIT (QTY.: 2) Item No.
1.03 in	1 in	0.59 in	0.75 in /19.1mm	HCT10114	4 ft	**1XJG8**	1 ft	**1XJG7**	**1XJK7**
1.44 in	1 in	1 in	0.75 in /19.1mm	HCT10219	4 ft	**1XJH2**	—	—	**1XJK8**
2.12 in	1.62 in	1.5 in	1.00 in /25.4mm	HCT16119	4 ft	**1XJH4**	1 ft	**1XJH3**	**1XJK9**
2.12 in	1.62 in	1.5 in	1.00 in /25.4mm	HCT16134	4.5 ft	**1XJH7**	1 ft	**1XJH5**	**1XJK9**
2.91 in	1.62 in	2.28 in	1.00 in /25.4mm	HCT16219	4 ft	**1XJJ1**	1 ft	**1XJH9**	**1XJL1**
2.91 in	1.62 in	2.28 in	1.00 in /25.4mm	HCT16234	4.5 ft	**1XJJ3**	1 ft	**1XJJ2**	**1XJL1**
3.7 in	1.62 in	3.08 in	1.00 in /25.4mm	HCT16334	4.5 ft	**1XJJ5**	1 ft	**1XJJ4**	**1XJL2**
4.69 in	1.62 in	4.06 in	1.00 in /25.4mm	HCT16434	4.5 ft	**1XJJ7**	1 ft	**1XJJ6**	**1XJL3**
3.7 in	2.5 in	2.6 in	1.75 in /44.5mm	HCT25134	4.5 ft	**1XJJ9**	1 ft	**1XJJ8**	**1XJL4**
5.36 in	2.5 in	4.25 in	1.75 in /44.5mm	HCT25234	4.5 ft	**1XJK2**	1 ft	**1XJK1**	**1XJL5**
5.36 in	2.5 in	4.25 in	1.75 in /44.5mm	HCT25247	5 ft	**1XJK4**	1 ft	**1XJK3**	**1XJL5**
7.7 in	2.5 in	6.6 in	1.75 in /44.5mm	HCT25347	5 ft	**1XJK6**	1 ft	**1XJK5**	**1XJL6**













Braided Sleeving for Wire and Cable Management

TECHFLEX Braided Sleeving Products

- UL Recognized

For bundling, managing, and protecting wires, cables, and hoses. Most are black (Flexo Flame-Retardant has white tracer). ThermaShield are silver and FireFlex are red. Most types cut cleanly with a hot knife. Flexo F6 Self-Wrap, DuraFlex, ThermaShield tubes and wrap, and Flexo Clean-Cut cut easily with scissors or knife. Insultherm cuts with scissors only.

DURAFLEX HARSH ENVIRONMENT

- Thick, tightly woven nylon
- Resists UV, chemicals, gasoline, salt, snags, cuts, abrasion, and penetration
- Deflects high-pressure hose ruptures
- MSHA

Rot resistant for continuous outdoor use.

WELD WRAP

- Coated fiberglass
- Withstands temps. to 1000°F
- Resists abrasion and punctures
- FED 191/5093

Protects hoses and wiring from molten welding splatter and sparks.

THERMASHIELD REFLECTIVE

- Withstands temps. to 500°F
- Resists gasoline, engine chemicals, cuts, and abrasion

Aluminized heat shield is bonded to tightly braided, insulating fiberglass. Wrap uses a high-temp. adhesive.

DURAWRAP HARSH ENVIRONMENT

- Tightly woven ballistic nylon
- Hook-and-loop closure
- Resists UV, abrasion, gasoline, engine chemicals, and salt water
- Deflects high-pressure hose ruptures

Overlarge sleeving can be used over chain as a scuff preventive.

FIREFLEX HIGH-TEMPERATURE

- Silicone-jacketed fiberglass
- Nonconductive
- Stable to 500°F
- Resists abrasion and punctures

0.08"-thick sleeving bends to follow tight curves. For racing vehicles and similarly demanding industries.

GORILLA SLEEVE

- Flat-filament nylon
- Resists UV, gasoline, engine chemicals, and salt water

0.046" thick for extreme abrasion and cut resistance.

Dia. Range	Inside Dia.	L	Item No.	L	Item No.	L	Item No.
Flexo Expandable, Polyethylene Terephthalate							
0.090 in to 0.250 in	0.125 in	10 ft.	2RMC6	100 ft.	2RLL3	500 ft.	2RLL2
0.120 in to 0.440 in	0.250 in	10 ft.	2RLL4	100 ft.	1UXW6	500 ft.	1UXW5
0.180 in to 0.630 in	0.375 in	10 ft.	2RMC7	50 ft.	1UXW8	500 ft.	1UXW7
0.250 in to 0.750 in	0.500 in	10 ft.	2RLL5	50 ft.	1UXY1	500 ft.	1UXW9
0.500 in to 1.250 in	0.750 in	10 ft.	2RMC8	50 ft.	1UXY3	250 ft.	1UXY2
0.750 in to 1.750 in	1.250 in	10 ft.	2RLL6	50 ft.	1UXY5	250 ft.	1UXY4
1.000 in to 2.500 in	1.500 in	10 ft.	2RMD1	50 ft.	2RLL7	200 ft.	2RMC9
1.250 in to 2.750 in	1.750 in	10 ft.	2RLL9	50 ft.	2RMD2	200 ft.	2RLL8
1.500 in to 3.500 in	2.000 in	10 ft.	2RMD3	50 ft.	1UXY7	200 ft.	1UXY6
Flexo Expandable, Flame Retardant Polyethylene							
0.090 in to 0.250 in	0.125 in	10 ft.	2RMD4	100 ft.	2RMD5	500 ft.	2RMD6
0.120 in to 0.440 in	0.250 in	10 ft.	2RMD7	100 ft.	1UXY8	500 ft.	2RMD8
0.180 in to 0.630 in	0.375 in	10 ft.	2RMD9	50 ft.	1UXY9	500 ft.	2RME1
0.250 in to 0.750 in	0.500 in	10 ft.	2RME2	50 ft.	1UXZ1	500 ft.	2RLN1
0.500 in to 1.250 in	0.750 in	10 ft.	2RME3	50 ft.	1UXZ2	250 ft.	2RLN2
0.750 in to 1.750 in	1.250 in	10 ft.	2RME4	50 ft.	1UXZ3	250 ft.	2RLN3
1.000 in to 2.500 in	1.500 in	10 ft.	2RLN4	50 ft.	2RLN5	200 ft.	2RLN6
1.250 in to 2.750 in	1.750 in	10 ft.	2RME5	50 ft.	1UXZ4	200 ft.	2RME6
1.500 in to 3.500 in	2.000 in	10 ft.	2RME7	50 ft.	2RME8	200 ft.	2RME9
Flexo Heavy Wall, 15-mil Expandable, Monofilament Polyethylene Terephthalate							
0.180 in to 0.750 in	0.375 in	10 ft.	2RMF3	100 ft.	1UYA1	—	—
0.310 in to 1.000 in	0.625 in	10 ft.	2RMF5	75 ft.	1UYA2	250 ft.	2RMF6
0.500 in to 1.500 in	1.000 in	10 ft.	2RLP7	50 ft.	1UYA3	250 ft.	2RLP8
0.750 in to 2.000 in	1.500 in	10 ft.	2RLP9	50 ft.	1UYA4	250 ft.	2RMF7
1.500 in to 3.000 in	2.000 in	10 ft.	2RMF8	50 ft.	2RLR1	200 ft.	2RMF9
2.000 in to 4.000 in	3.000 in	10 ft.	2RLR2	50 ft.	2RLR3	100 ft.	2RMG1
2.500 in to 5.500 in	4.000 in	10 ft.	2RLR4	50 ft.	2RLR5	100 ft.	2RMG2
0.180 in to 0.750 in	0.380 in	—	—	—	—	500 ft.	2RMF4
Flexo Wrap, Hook and Loop, Expandable, Polyethylene Terephthalate							
0.250 in to 0.500 in	0.500 in	25 ft.	2RLR6	100 ft.	2RMG3	—	—
0.500 in to 0.750 in	0.750 in	25 ft.	1UYA5	100 ft.	2RLR7	—	—
1.000 in to 1.250 in	1.250 in	25 ft.	1UYA6	100 ft.	2RMG4	—	—
1.500 in to 2.000 in	2.000 in	25 ft.	1UYA7	100 ft.	2RMG5	—	—
Flexo F6, Semirigid, Self Wrap, Nonexpandable, Polyethylene Terephthalate							
0.060 in to 0.130 in	0.125 in	25 ft.	2RLR8	100 ft.	2RMG7	400 ft.	2RMG6
0.130 in to 0.250 in	0.250 in	20 ft.	2RMG9	100 ft.	1UYA8	200 ft.	2RMG8
0.250 in to 0.380 in	0.375 in	15 ft.	2RLT1	100 ft.	2RLR9	150 ft.	2RMH1
0.310 in to 0.500 in	0.500 in	10 ft.	2RLT3	75 ft.	1UYA9	150 ft.	2RLT2
0.500 in to 0.750 in	0.750 in	8 ft.	2RLT4	50 ft.	1UYB1	100 ft.	2RMH2
0.750 in to 1.000 in	1.000 in	7 ft.	2RLT5	50 ft.	1UYB2	100 ft.	2RMH3
1.250 in to 1.500 in	1.500 in	4 ft.	2RLT6	25 ft.	1UYB3	75 ft.	2RMH4
1.750 in to 2.000 in	2.000 in	4 ft.	2RMH6	25 ft.	2RLT7	50 ft.	2RMH5
Insultherm 1200°F, Expandable, Resin Coated Fiberglass							
0.180 in to 0.310 in	0.250 in	10 ft.	2RLU1	25 ft.	2RLT9	100 ft.	2RLT8
0.380 in to 0.630 in	0.375 in	10 ft.	2RMH8	25 ft.	2RMH7	100 ft.	1UYB4
0.500 in to 0.750 in	0.500 in	10 ft.	2RMJ1	25 ft.	2RMH9	100 ft.	1UYB5
0.630 in to 0.880 in	0.625 in	10 ft.	2RLU3	25 ft.	2RLU2	100 ft.	1UYB6
0.750 in to 1.130 in	0.750 in	10 ft.	2RLU5	25 ft.	2RLU4	100 ft.	1UYB7
1.000 in to 1.630 in	1.000 in	10 ft.	2RLU7	25 ft.	2RLU6	100 ft.	1UYB8
1.500 in to 1.750 in	1.500 in	10 ft.	2RLU8	25 ft.	2RMJ3	50 ft.	2RMJ2
Duraflex Harsh Environment, Nonexpandable, Woven Nylon							
0.500 in to 0.710 in	0.710 in	10 ft.	2RMK4	50 ft.	2RMK5	100 ft.	2RLV7
0.600 in to 0.830 in	0.830 in	10 ft.	2RMK6	—	—	100 ft.	2RLV8
0.850 in to 1.000 in	1.000 in	10 ft.	2RMK8	50 ft.	2RLV9	100 ft.	2RMK9
1.000 in to 1.130 in	1.130 in	10 ft.	2RLW1	50 ft.	2RML1	100 ft.	2RLW2
1.130 in to 1.250 in	1.250 in	10 ft.	2RLW3	50 ft.	2RLW4	100 ft.	2RML2
1.350 in to 1.590 in	1.562 in	10 ft.	2RML3	—	—	—	—
1.600 in to 1.750 in	1.750 in	10 ft.	2RML4	50 ft.	2RLW7	100 ft.	2RML5
1.950 in to 2.070 in	2.070 in	10 ft.	2RLW8	—	—	100 ft.	2RLW9
2.250 in to 2.380 in	2.380 in	10 ft.	2RML7	50 ft.	2RLX1	100 ft.	2RML8
2.650 in to 2.860 in	2.860 in	10 ft.	2RLX2	50 ft.	2RLX3	100 ft.	2RLX4
3.100 in to 3.340 in	3.340 in	10 ft.	2RLX5	50 ft.	2RLX6	100 ft.	2RML9
3.400 in to 3.660 in	3.660 in	10 ft.	2RLX7	50 ft.	2RLX8	100 ft.	2RLX9
0.600 in to 0.830 in	0.812 in	—	—	50 ft.	2RMK7	—	—
1.350 in to 1.590 in	1.590 in	—	—	50 ft.	2RLW5	100 ft.	2RLW6
1.950 in to 2.070 in	2.062 in	—	—	50 ft.	2RML6	—	—
Hot Knives							
Bench-Mount		—	—	—	—	—	2RMT9
Handheld		—	—	—	—	—	2RMC5

Dia. Range	Inside Dia.	L	Item No.
Weld Wrap with Hook-and-Loop, 1000°F, Nonexpandable, Coated Fiberglass			
0.500 in to 1.000 in	1.000 in	25 ft.	2RMT2
1.000 in to 1.500 in	1.500 in	25 ft.	2RMT3
1.500 in to 2.000 in	2.000 in	25 ft.	2RMT4
2.500 in to 3.000 in	3.000 in	25 ft.	2RMT5
ThermaShield Tubes, Nonexpandable, Reflective Aluminum Coated Fiberglass			
0.250 in to 0.500 in	0.500 in	50 ft.	2RMP7
0.380 in to 0.630 in	0.625 in	50 ft.	2RMP8
0.500 in to 0.750 in	0.750 in	50 ft.	2RMP9
0.630 in to 0.880 in	0.880 in	50 ft.	2RMR1
0.750 in to 1.000 in	1.000 in	50 ft.	2RMR2
1.000 in to 1.250 in	1.250 in	50 ft.	2RMR3
1.250 in to 1.500 in	1.500 in	50 ft.	2RMR4
1.500 in to 1.750 in	1.750 in	25 ft.	2RMR5
1.750 in to 2.000 in	2.000 in	25 ft.	2RLZ7
2.250 in to 2.500 in	2.500 in	25 ft.	2RLZ8
ThermaShield Wrap, Nonexpandable, Reflective Aluminum Coated Fiberglass, Adhesive Seal			
0.130 in to 0.250 in	0.250 in	4 ft.	2RLZ9
0.250 in to 0.380 in	0.375 in	4 ft.	2RMR6
0.380 in to 0.500 in	0.500 in	4 ft.	2RMR7
0.500 in to 0.750 in	0.750 in	4 ft.	2RMA1
0.750 in to 1.000 in	1.000 in	4 ft.	2RMR8
1.000 in to 1.250 in	1.250 in	4 ft.	2RMA2
1.250 in to 1.500 in	1.500 in	4 ft.	2RMR9
1.750 in to 2.000 in	2.000 in	4 ft.	2RMA3

Dia. Range	Inside Dia.	L	Item No.	L	Item No.
DuraWrap Harsh Environment, Hook and Loop, Nonexpandable, Ballistic Nylon					
0.750 in to 1.000 in	1.000 in	10 ft.	2RMJ5	25 ft.	2RMJ4
1.250 in to 1.500 in	1.500 in	10 ft.	2RMJ7	25 ft.	2RMJ6
1.750 in to 2.000 in	2.000 in	10 ft.	2RMJ8	25 ft.	2RLU9
2.250 in to 2.500 in	2.500 in	10 ft.	2RMJ9	25 ft.	2RLV1
2.750 in to 3.000 in	3.000 in	10 ft.	2RMK1	25 ft.	2RLV2
3.250 in to 3.500 in	3.500 in	10 ft.	2RMK2	25 ft.	2RLV3
3.750 in to 4.000 in	4.000 in	10 ft.	2RMK3	25 ft.	2RLV4
4.250 in to 4.500 in	4.500 in	10 ft.	2RLV6	25 ft.	2RLV5
Fireflex High Temperature, Nonexpandable, Silicone Coated Fiberglass					
0.130 in to 0.250 in	0.250 in	5 ft.	2RLY2	50 ft.	2RLY1
0.250 in to 0.380 in	0.375 in	5 ft.	2RMN1	50 ft.	2RLY3
0.380 in to 0.500 in	0.500 in	5 ft.	2RMN3	50 ft.	2RMN2
0.500 in to 0.630 in	0.625 in	5 ft.	2RMN5	50 ft.	2RMN4
0.630 in to 0.750 in	0.750 in	5 ft.	2RLY4	50 ft.	2RMN6
0.750 in to 0.880 in	0.875 in	5 ft.	2RMN7	50 ft.	2RLY5
0.880 in to 1.000 in	1.000 in	5 ft.	2RLY7	50 ft.	2RLY6
1.000 in to 1.250 in	1.250 in	5 ft.	2RMN8	50 ft.	2RLY8
1.250 in to 1.500 in	1.500 in	5 ft.	2RMN9	50 ft.	2RLY9
1.500 in to 1.750 in	1.750 in	5 ft.	2RMP1	25 ft.	2RLZ1
1.750 in to 2.000 in	2.000 in	5 ft.	2RLZ2	25 ft.	2RMP2
2.000 in to 2.250 in	2.250 in	5 ft.	2RLZ3	25 ft.	2RMP3
2.250 in to 2.500 in	2.500 in	5 ft.	2RMP5	25 ft.	2RMP4
2.500 in to 2.750 in	2.750 in	5 ft.	2RLZ5	25 ft.	2RLZ4
2.750 in to 3.000 in	3.000 in	5 ft.	2RMP6	25 ft.	2RLZ6
Flexo Clean-Cut, Expandable, Nonfray Polyethylene Terephthalate					
0.120 in to 0.250 in	0.125 in	100 ft.	2RLN7	500 ft.	2RLN8
0.150 in to 0.440 in	0.250 in	100 ft.	1UXZ5	500 ft.	2RMF1
0.180 in to 0.630 in	0.375 in	50 ft.	1UXZ6	500 ft.	2RLN9
0.250 in to 0.750 in	0.500 in	50 ft.	1UXZ7	500 ft.	2RLP1
0.630 in to 1.000 in	0.750 in	50 ft.	1UXZ8	250 ft.	2RLP2
0.750 in to 1.190 in	1.000 in	50 ft.	2RLP3	250 ft.	2RLP4
1.000 in to 1.500 in	1.250 in	50 ft.	1UXZ9	250 ft.	2RMF2
1.250 in to 2.000 in	1.500 in	50 ft.	2RLP5	250 ft.	2RLP6
Gorilla Sleeve, Expandable, Flat Filament Nylon					
0.380 in to 0.630 in	0.500 in	10 ft.	2RMA4	100 ft.	2RPD2
0.630 in to 1.000 in	0.750 in	10 ft.	2RPD3	50 ft.	2RMA5
0.750 in to 1.250 in	1.000 in	10 ft.	2RMA6	50 ft.	2RPD4
1.000 in to 1.500 in	1.250 in	10 ft.	2RPD5	50 ft.	2RMT1
1.500 in to 2.000 in	1.750 in	5 ft.	2RPD6	25 ft.	2RMA7
1.750 in to 2.250 in	2.000 in	5 ft.	2RMA8	25 ft.	2RPD7

Corrugated Split-Loom Tubing

GA GRAINGER APPROVED

Provides flexibility and chemical resistance to solvents. Impact-resistant at low temperatures. Designed for electrical, machinery, and building harness wiring. For use in various industrial, medical, and electrical applications.

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
Black			
¼ in	25 ft	16Y250	16Y261
	100 ft	16Y245	16Y256
5⁄16 in	25 ft	16Y251	—
	100 ft	16Y246	16Y257
⅜ in	25 ft	16Y252	16Y263
	100 ft	16Y247	16Y258
½ in	25 ft	16Y253	16Y264
	100 ft	16Y248	16Y259

** 1¼" size are 50 ft.*

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
¾ in	25 ft	16Y254	16Y265
	100 ft	16Y249	16Y260
1 ¼ in	50 ft	16Y255	16Y266
Orange			
⅜ in	25 ft	16Y285	—
½ in	100 ft	16Y281	—
Yellow			
¾ in	25 ft	16Y276	—
	100 ft	16Y271	—

Connection Type/Size	Item No.
Tee Fittings, Black Nylon, Pkg. of 10	
½ in x ¼ in (Without Thread)	19A641
½ in x 5⁄16 in (Without Thread)	19D609


No. 16Y245


No. 19A641

Corrugated Tubing and Fittings

REIKU

Connect or disconnect these quick-release fittings with no tools required. Designed for use in any electrical installations that require a watertight seal and quick connection. UL Listed and CSA Certified.


No. 25D285

Description	NOMINAL SIZE ¼" Item No.	5⁄16" Item No.	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1¾" Item No.
Nylon 6 Tubing, Unslit								
10 ft	25D285	25D288	25D291	25D294	25D297	25D301	25D304	25D307
25 ft	25D286	25D289	25D292	25D295	25D298	25D302	25D305	25D308
45 ft	25D287	25D290	25D293	25D296	25D299	25D303	25D306	25D309
Nylon Fittings								
90° Elbow	25D318	25D319	25D320	25D321	25D322	25D323	25D324	25D325
Locknut, Qty. 10; (5 on 1¾")	25D342	—	25D344	25D345	25D346	25D347	25D348	25D349
Straight Connector	25D310	25D311	25D312	25D313	25D314	25D315	25D316	25D317
Support, Qty. 10	25D326	25D327	25D328	25D329	25D330	25D331	25D332	25D333
Support Clip, Qty. 10 (fits all sizes)	—	—	—	—	—	—	—	25D334
Support Top, Qty. 10	25D335	25D335	25D336	25D337	25D338	25D339	25D340	25D341


No. 25D318


No. 25D326


No. 25D312

Drossbach

Corrugated Split-Loom Tubing

Provides protection and organization to wires, cables, and hoses. Corrugated for flexibility and easy installation. Abrasion-, fluid-, and weather-resistant.

Description/ Special Features	Item No.
Split Loom Installation Tools	
Loom Tool for ¼" to 7⁄16" Conduit	25D279
Loom Tool for ½" to ⅝" Conduit	25D280
Loom Tool for ¾" to ⅞" Conduit	25D281
Loom Tool for 1" to 1¼" Conduit	25D282
Loom Tool for 1½" to 2" Conduit	25D283

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
Tubing			
¼ in	3,200 ft	25D255	25D266
¼ in	100 ft	—	25D274
⅜ in	1,900 ft	25D256	25D267
⅜ in	100 ft	—	25D275
½ in	1,100 ft	25D257	25D268
½ in	100 ft	—	25D276
⅝"	800 ft	25D258	—
⅝ in	800 ft	—	25D269
¾ in	100 ft	—	25D277
¾ in	550 ft	25D259	25D270
1 in	50 ft	—	25D278
1 ½ in	150 ft	25D262	25D273
1 ¼ in	250 ft	25D261	25D272
1 in	300 ft	25D260	25D271
2 in	100 ft	25D263	—
2 ½ in	500 ft	25D264	—
3 ½ in	300 ft	25D265	—


No. 25D279


No. 25D255


No. 25D274

Spiral Wrap
No. 1LEZ3



Pan-Wrap™
No. 1LEY8



PANDUIT

Wire Protection Wrap

SPIRAL WRAP

- Natural color
- Temp. range: -40° to 122°F

Allows breakouts of single/ multiple wires. Great for harnessing multiple cables into a single manageable bundle. Each roll includes installation tool. UL Recognized.

PAN-WRAP™

- Black color
- Temp. range: -40° to 122°F

Slot pattern provides improved flexibility and abrasion protection in any application. Wall design facilitates cable breakouts. UL Recognized.

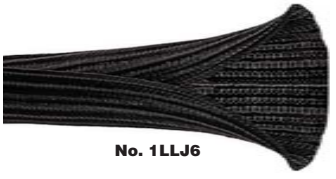
Pan-Wrap™ Installation Tools

- Black color
- Temp. range: -40° to 122°F

180° opening allows easy loading of max. bundle diameters to considerably speed Pan-Wrap™ installation.

W	Spiral Wrap Length	Spiral Wrap Dia. Range	Mfr. Model	Item No.
Spiral Wrap, Polyethylene				
0.250"	100 ft	0.1875 in to 2 in	T25F-C	1LEZ3
0.375"	100 ft	0.3125 in to 3 in	T38F-C	1LEZ4
0.500"	100 ft	0.3750 in to 4 in	T50F-C	1LEZ5
0.750"	100 ft	0.6250 in to 5 in	T75F-C	1LEZ6
1.000"	100 ft	0.8750 in to 6 in	T100F-C	1LEZ7
Pan-Wrap™, Polyethylene				
0.500 in	200 ft.	0.430 in to 0.550 in	PW50F-T20	1LEY8
0.750 in	100 ft.	0.550 in to 0.810 in	PW75F-C20	1LEY9
1.000 in	100 ft.	0.810 in to 1.130 in	PW100F-C20	1LEZ1
1.500 in	50 ft.	1.130 in to 1.630 in	PW150F-L20	1LEZ2

For Use With	Mfr. Model	Item No.
Pan-Wrap™ Installation Tools		
Mfr. No. PW50F-T20	PWT50	1LEL5
Mfr. No. PW75F-C20	PWT75	1LEL6
Mfr. No. PW100F-C20	PWT100	1LEY6
Mfr. No. PW150F-L20	PWT150	1LEY7


No. 1LLJ6

PANDUIT

Braided Expandable Sleeving

- Black color
- 100-ft. lengths

Provides continuous abrasion protection for wires, cables, hoses, and tubing. Highly flexible open weave will not trap heat or humidity, and allows irregular shapes. Lightweight and durable protection. UL Recognized.

Material of Construc.	Inside Dia.	Mfr. Model	Item No.
Open Weave Polyethylene	0.500 in	SE50P-CR0	1LLJ6
Flame Retardant Polyethylene	0.500 in	SE50PFR-CR0	1LLJ7



No. 40J771



No. 40J770

Cable Tie Kits

Ties feature a reinforced head and strap transition for added strength. Conveniently stored in a sturdy see-through, resealable jar. Easy to apply with installation tools Nos. 1A887, 1TBD8, 3KH51, or 5A308 (see pg. 411). UL Recognized.

Color	Includes	Item No.
Natural	(300) 3.9" Natural, (300) 7.9" Natural, (50) 11.8" Natural	40J771
Black	(50) 11.8" Black, (300) 3.9" Black, and (300) 7.9" Black	40J772
Assorted Colors	(100) 7.9" Blue, (100) 7.9" Green, (100) 7.9" Orange, (100) 7.9" Red, and (100) 3.9" Yellow	40J770



Natural Color No. 21F257



Black, UV-Resistant No. 21F258



Releasable No. 36J197



Mounting Head No. 36J188

PANDUIT® Nylon Cable Ties

- Temp. range: 185°F

Durable nylon 6/6 construction with a reinforced head and strap transition for added strength. Rounded head reduces snags. Perfect for bundling wire, cable, or hose. Curved-tip design for faster threading.

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Brand	NATURAL COLOR (INDOOR) Pack Pkg. Qty.	NATURAL COLOR (INDOOR) Pack Item No.	NATURAL COLOR (INDOOR) Bulk Pkg. Qty.	NATURAL COLOR (INDOOR) Bulk Item No.	BLACK (UV-RESISTANT OUTDOOR) Pack Pkg. Qty.	BLACK (UV-RESISTANT OUTDOOR) Pack Item No.	BLACK (UV-RESISTANT OUTDOOR) Bulk Pkg. Qty.	BLACK (UV-RESISTANT OUTDOOR) Bulk Item No.
Standard												
18 lb	0 to 3 ½ in	0.1 in	0.87 in	Panduit	100	**21F262**	1000	**21F264**	100	**21F263**	1000	**21F265**
	4 in	0.10 in	0.85"	Power First	100	**36J127**	1000	**36J129**	100	**36J128**	1000	**36J130**
	6 ½ in	0.10 in	1.56"	Power First	100	**36J131**	—	—	100	**36J132**	—	—
	8 in	0.1 in	2.0 in	Panduit	100	**21F270**	1000	**21F272**	100	**21F271**	1000	**21F273**
		0.10 in	2.36"	Power First	100	**36J133**	1000	**36J135**	100	**36J134**	1000	**36J136**
40 lb	5 ½ in	0.14 in	1.38 in	Panduit	100	**21F257**	1000	**21F259**	100	**21F258**	1000	**21F260**
	6 in	0.14 in	1.46"	Power First	100	**36J137**	1000	**36J139**	100	**36J138**	—	—
	8 in	0.14 in	2.0 in	Panduit	100	**21F266**	1000	**21F268**	100	**21F267**	1000	**21F269**
	10 in	0.14 in	2.56 in	Power First	—	—	—	—	100	**36J142**	—	—
		0.14 in	2.76"	Power First	100	**36J141**	1000	**36J143**	—	—	—	—
		0.14 in	2.56"	Power First	—	—	—	—	—	—	1000	**36J144**
	11 in	0.14 in	3.15"	Power First	—	—	500	**36J147**	100	**36J146**	500	**36J148**
		0.14 in	3.23"	Power First	100	**36J145**	—	—	—	—	—	—
		0.14 in	3.0 in	Panduit	100	**21F278**	1000	**21F280**	100	**21F279**	1000	**21F281**
	14 ½ in	0.14 in	4.0 in	Panduit	100	**21F286**	1000	**21F288**	100	**21F287**	1000	**21F289**
50 lb	7 in	0.19 in	1.88 in	Panduit	100	**21F274**	1000	**21F276**	100	**21F275**	1000	**21F277**
	8 in	0.19 in	2.0 in	Power First	—	—	—	—	—	—	1000	**36J152**
		0.19 in	2.00"	Power First	100	**36J149**	—	—	100	**36J150**	—	—
		0.19 in	2.13"	Power First	—	—	1000	**36J151**	—	—	—	—
	11 ½ in	0.19 in	3.0 in	Panduit	100	**21F282**	1000	**21F284**	100	**21F283**	1000	**21F285**
	12 in	0.19 in	3.31"	Power First	100	**36J153**	500	**36J155**	—	—	—	—
		0.19 in	3.27"	Power First	—	—	—	—	100	**36J154**	—	—
		0.19 in	3.31 in	Power First	—	—	—	—	—	—	500	**36J156**
	14 ½ in	0.19 in	4.01 in	Power First	—	—	—	—	100	**36J158**	500	**36J160**
		0.19 in	4.01"	Power First	100	**36J157**	500	**36J159**	—	—	—	—
		0.19 in	4.0 in	Panduit	100	**21F290**	1000	**21F291**	—	—	1000	**21F292**
120 lb	8 in	0.30 in	2.00"	Power First	100	**36J161**	—	—	100	**36J162**	—	—
	12 in	0.3 in	3.23 in	Power First	—	—	—	—	100	**36J164**	—	—
		0.30 in	3.23"	Power First	100	**36J163**	—	—	—	—	—	—
	14 ½ in	0.3 in	3.82 in	Power First	—	—	—	—	100	**36J166**	—	—
		0.30 in	3.82"	Power First	100	**36J165**	—	—	—	—	—	—
	17 ½ in	0.3 in	4.65 in	Power First	—	—	—	—	50	**36J168**	—	—
		0.30 in	4.65"	Power First	50	**36J167**	—	—	—	—	—	—
	21 ½ in	0.3 in	6.0 in	Panduit	50	**21F293**	—	—	50	**21F294**	—	—
		0.31 in	6.30"	Power First	50	**36J169**	—	—	—	—	—	—
	24 ½ in	0.3 in	7.0 in	Panduit	50	**21F295**	—	—	50	**21F296**	—	—
	27 ½ in	0.3 in	8.0 in	Panduit	50	**21F297**	—	—	50	**21F298**	—	—
		0.30 in	8.07"	Power First	50	**36J173**	—	—	50	**36J174**	—	—
	30 ½ in	0.3 in	9.0 in	Panduit	50	**21F299**	—	—	50	**21F301**	—	—
	34 in	0.3 in	10.31 in	Panduit	50	**21F261**	—	—	—	—	—	—
175 lb	23 ½ in	0.35 in	6.89"	Power First	50	**36J171**	—	—	50	**36J172**	—	—
	35 in	0.35 in	10.94"	Power First	50	**36J177**	—	—	—	—	—	—
		0.35 in	10.94 in	Power First	—	—	—	—	50	**36J178**	—	—
	48 in	0.35 in	14.72"	Power First	50	**36J179**	—	—	50	**36J180**	—	—
Releasable												
50 lb	8 in	0.30 in	1.93"	Power First	100	**36J196**	500	**36J198**	100	**36J197**	500	**36J199**
	12 in	0.30 in	3.23"	Power First	100	**36J201**	500	**36J203**	100	**36J202**	500	**36J204**
Mountable												
40 lb	6 ½ in	0.14 in	1.26"	Power First	100	**36J188**	—	—	100	**36J189**	—	—
50 lb	8 in	0.19 in	1.97"	Power First	100	**36J190**	1000	**36J194**	—	—	—	—
120 lb	15 in	0.30 in	3.86"	Power First	100	**36J192**	—	—	100	**36J193**	—	—



Red No. 36J206



Orange No. 36J207



Yellow No. 36J205



Green No. 36J208



Blue No. 36J209

Color-Coded Cable Ties

Durable nylon 6/6 construction with a reinforced head and strap transition for added strength. Rounded head reduces snags. 2-sided finger-grip design helps installer grasp and pull tie snug. Temperature range: -40° to 185°F.

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Pkg. Qty.	RED Item No.	ORANGE Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.
18 lb	4 in	0.10 in	0.87"	100	**36J206**	**36J207**	**36J205**	**36J208**	**36J209**
40 lb	6 in	0.14 in	1.38"	100	**36J211**	**36J212**	**36J210**	**36J213**	**36J214**
40 lb	8 in	0.14 in	1.97"	100	**36J221**	**36J222**	**36J220**	**36J223**	**36J224**
50 lb	8 in	0.19 in	1.97"	100	**36J216**	**36J217**	**36J215**	**36J218**	**36J219**
50 lb	12 in	0.19 in	3.27"	100	**36J226**	**36J227**	**36J225**	**36J228**	**36J229**
50 lb	14 ½ in	0.19 in	4.02"	100	**36J231**	**36J232**	**36J230**	**36J233**	**36J234**

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Brand	NATURAL COLOR (INDOOR) Pack Pkg. Qty.	Pack Item No.	Bulk Pkg. Qty.	Bulk Item No.	BLACK UV RESISTANT (OUTDOOR) Pack Pkg. Qty.	Pack Item No.	Bulk Pkg. Qty.	Bulk Item No.
With ID Tag												
18 lb	0 to 3	0.09 in	0.63"	Ty-Rap®	100	3KH29	—	—	—	—	—	—
	½ in	0.09 in	0.63 in	Ty-Rap®	—	—	500	1XFV9	—	—	—	—
50 lb	4 in	0.09 in	0.63 in	Ty-Rap®	100	3KH30	500	1XFW1	—	—	—	—
	7 in	0.18 in	1.75 in	Ty-Rap®	100	3KH27	1000	1XFV7	—	—	—	—
	14 in	0.18 in	4.0 in	Ty-Rap®	100	3KH28	1000	1XFV8	—	—	—	—
Standard												
18 lb	0 to 3	0.09 in	0.63 in	Ty-Rap®	100	6JE34 *	—	—	—	—	—	—
	½ in	0.09 in	0.63 in	Ty-Rap®	100	3KG93	1000	1XFP1	100	3KG94	1000	1XFP2
	4 in	0.09 in	0.9 in	Panduit	100	2CMV2	1000	2CMV4	100	2CMV3	1000	2CMV5
	6 in	0.09 in	1.5 in	Panduit	100	2CMV6	1000	2CMV8	100	2CMV7	1000	2CMV9
	7 ½ in	0.09 in	2.0 in	Panduit	100	2CMW1	1000	2CMW3	100	2CMW2	1000	2CMW4
	7 in	0.1 in	1.5 in	Ty-Rap®	—	—	1000	35PC23	—	—	1000	35PC22
	8 in	0.09 in	2.0 in	Ty-Rap®	100	3KG89	1000	1XFN6	100	3KG90	1000	1XFN7
	14 in	0.09 in	4.0 in	Ty-Rap®	100	3KG91	1000	1XFN8	100	3KG92	1000	1XFN9
		0.09 in	4.0 in	Panduit	100	2CMW5	1000	2CMW7	100	2CMW6	1000	2CMW8
30 lb	5 ½ in	0.14 in	1.25 in	Ty-Rap®	100	3KG99	1000	1XFP7	100	3KH01	1000	1XFP8
	8 in	0.14 in	2.0 in	Ty-Rap®	100	3KG95	1000	1XFP3	100	3KG96	1000	1XFP4
	11 in	0.14 in	3.0 in	Ty-Rap®	100	3KH06	1000	1XFR4	100	3KH07	1000	1XFR5
	14 ½ in	0.14 in	4.0 in	Ty-Rap®	100	3KG97	1000	1XFP5	100	3KG98	1000	1XFP6
40 lb	6 in	0.14 in	1.5 in	Panduit	100	2CMW9	1000	2CMX2	100	2CMX1	1000	2CMX3
	8 in	0.14 in	2.0 in	Panduit	100	2CMX4	1000	2CMX6	100	2CMX5	1000	2CMX7
	11 in	0.14 in	3.0 in	Panduit	100	2CMX8	1000	2CMY1	100	2CMX9	1000	2CMY2
	14 ½ in	0.14 in	4.0 in	Panduit	100	2CMY3	1000	2CMY5	100	2CMY4	1000	2CMY6
50 lb	7 in	0.18 in	1.75 in	Ty-Rap®	100	6JE33 *	—	—	100	1PLA7 †	—	—
		0.18 in	1.75 in	Ty-Rap®	100	3KH04	1000	1XFR2	100	3KH05	1000	1XFR3
	8 in	0.18 in	2.0 in	Panduit	100	2CMY7	1000	2CMY9	100	2CMY8	1000	2CMZ1
	11 in	0.18 in	3.0 in	Ty-Rap®	100	3KH02	—	—	100	3KH03	1000	1XFR1
	11 ½ in	0.18 in	3.0 in	Ty-Rap®	—	—	1000	35PC24	—	—	—	—
	12 in	0.18 in	3.0 in	Panduit	100	2CMZ2	1000	2CMZ4	100	2CMZ3	1000	2CMZ5
	14 in	0.18 in	4.0 in	Ty-Rap®	100	3KH14	1000	1XFT3	100	1PLP9	1000	1XFT4
	15 in	0.18 in	4.0 in	Panduit	100	2CMZ6	1000	2CMZ8	100	2CMZ7	1000	2CMZ9
120 lb	8 ½ in	0.27 in	2.0 in	Ty-Rap®	50	3KH08	500	1XFR6	50	3KH09	500	1XFR7
		0.27 in	2.0 in	Panduit	50	2CNA1	250	2CNA3	50	2CNA2	250	2CNA4
	13 in	0.27 in	3.5 in	Ty-Rap®	—	—	—	—	50	1PLA8 †	—	—
		0.27 in	3.5 in	Ty-Rap®	50	3KH12	500	1XFT1	50	3KH13	500	1XFT2
	14 ½ in	0.27 in	4.0 in	Panduit	50	2CNA5	250	2CNA7	50	2CNA6	250	2CNA8
	18 in	0.27 in	5.0 in	Ty-Rap®	50	3KH10	500	1XFR8	50	3KH11	500	1XFR9
		0.27 in	5.0 in	Panduit	50	2CNA9	—	—	50	2CNC1	—	—
	21 ½ in	0.27 in	6.0 in	Panduit	50	2CNC2	—	—	50	2CNC3	—	—
	24 in	0.26 in	7.0 in	Ty-Rap®	50	35PC26	—	—	50	35PC25	—	—
		0.27 in	7.0 in	Panduit	50	2CNC4	—	—	50	2CNC5	—	—
	27 ½ in	0.27 in	8.0 in	Panduit	50	2CNC6	—	—	50	2CNC7	—	—
	30 ½ in	0.27 in	9.0 in	Panduit	50	2CNC8	—	—	50	2CNC9	—	—
	30 in	0.3 in	9.0 in	Ty-Rap®	50	3KH16	500	1XFT5	50	3KH17	500	1XFT6
Mountable, Mounting Head												
18 lb	4 in	0.09 in	0.63"	Ty-Rap®	—	—	1000	1XFT7	—	—	—	—
		0.09 in	0.63 in	Ty-Rap®	100	3KH18	—	—	100	3KH19	1000	1XFT8
40 lb	6 in	0.14 in	1.25 in	Ty-Rap®	100	3KH20	1000	1XFT9	100	3KH21	1000	1XFV1
50 lb	7 ½ in	0.18 in	1.75 in	Ty-Rap®	100	3KH22	1000	1XFV2	100	3KH23	1000	1XFV3
	8 ½ in	0.18 in	2.0 in	Panduit	100	2CND1	—	—	100	2CND2	—	—
	15 ½ in	0.18 in	4.0 in	Panduit	100	2CND3	—	—	100	2CND4	—	—
120 lb	13 ½ in	0.3 in	3.5 in	Ty-Rap®	50	3KH24	500	1XFV4	50	3KH25	500	1XFV5
	15 ½ in	0.27 in	4.0 in	Panduit	50	2CND5	—	—	50	2CND6	—	—
Mountable, Push in Mount												
50 lb	7 ½ in	0.18 in	1.75 in	Ty-Rap®	100	3KH26	1000	1XFV6	—	—	—	—

** Includes dispenser pouch. † Heated stabilized, high temperature rated.*



Ty-Rap® PANDUIT®

Nylon Cable Ties with Stainless Steel Lock

T&B TY-RAP®

- Indoor natural-color ties are plenum rated
- Corrosion-resistant

316 stainless steel locking device in 6/6 nylon head maintains the right tension. Smooth, low-profile, no-notch body design is less stress-sensitive than notched ties, and infinitely adjustable. No-slip tail allows easier grasping for secure tensioning. Ribbed and stippled inner body keeps ties from slipping on the bundle. Black, weather-resistant, outdoor ties withstand temperatures ranging from -40° to 185°F, except Nos. 1PLA7 and 1PLA8 withstand -40° to 221°F. UL Listed.

PANDUIT DOME-TOP® BARB TY

Nylon ties with stainless steel locking barb secure wires and cables. Curved tip speeds initial threading. Temperature range: -76° to 185°F.

Stainless Steel Cable Ties

Ty-Rap® PANDUIT®

TY-RAP® MULTI-LOK 316 STAINLESS STEEL

Ties feature a multiple-locking system that holds in excess of 200 lb. Outdoor versions are halogen-free, nylon 11-coated making ties weather resistant and unaffected by UV sunlight.

TY-RAP® 304 STAINLESS STEEL

Strong, low-profile, single-wrap ties feature a dual-lock design. For harsh environments such as boiler rooms, chemical plants, refineries, and pulp and paper mills. Fireproof and UV-resistant.

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	10-PACK Item No.	100-PACK Item No.
T&B Ty-Rap®, Multi-Lok 316 Stainless Steel					
250 lb	6 in	0.29 in	2.0 in	6JE42	3KH37
	12 in	0.29 in	4.0 in	6JE44	3KH31
	12 in	0.47 in	4.0 in	6JE46	3KH33
	24 in	0.29 in	7.5 in	6JE48	3KH35
	24 in	0.47 in	7.5 in	6JE49	3KH36
T&B Ty-Rap®, Multi-Lok 316 Stainless Steel, Black Nylon Coated					
250 lb	6 in	0.29 in	2.0 in	6JE43	3KH38
	12 in	0.29 in	4.0 in	6JE45	3KH32
	12 in	0.47 in	4.0 in	6JE47	3KH34
T&B Ty-Rap® 304 Stainless Steel					
100 lb	6 ½ in	0.18 in	1.0 in	6JE35	—
	10 in	0.18 in	2.0 in	6JE36	—
	16 in	0.18 in	4.0 in	6JE38	—
200 lb	10 in	0.25 in	2.0 in	6JE37	—
	16 in	0.25 in	4.0 in	6JE39	—
	22 in	0.25 in	6.0 in	6JE40	—
	29 in	0.25 in	8.0 in	6JE41	—

PANDUIT PAN-STEEL®

Metal self-locking ties are for applications that need strength, long life, and resistance to chemicals, vibration, radiation, weathering, and extreme temperatures (-112° to 1000°F). Ties lock into place at any length along tie body. Smooth surfaces and rounded edges. For indoor, outdoor, and direct burial applications.

Panduit MRT and MRS Series

Retained-tension ties for mechanical application of rigid materials. MRT Series tightly bundle armored cables, pipes, conduit and other rigid materials. MRS Series have 360° radial seal to eliminate gaps and provide a sealed installation.

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Pkg. Qty.	304 Stainless Steel Item No.	316 Stainless Steel Item No.	Aluminum Item No.
Panduit Pan-Steel MLT Series Cable Ties							
50 lb	7 ½ in	0.31 in	2.0 in	50	—	—	3FVY3
	14 ½ in	0.31 in	4.0 in	50	—	—	3FVY4
200 lb	5 in	0.18 in	1.0 in	100	2CMP8	2CMR6	—
	7 ½ in	0.18 in	2.0 in	100	2CMP9	2CMR7	—
	14 ½ in	0.18 in	4.0 in	100	2CMR1	2CMR8	—
	20 ½ in	0.18 in	6.0 in	100	2CMR2	2CMR9	—
450 lb	7 ½ in	0.31 in	2.0 in	50	2CMR3	2CMT1	—
	14 ½ in	0.31 in	4.0 in	50	2CMR4	2CMT2	—
	20 ½ in	0.31 in	6.0 in	50	2CMR5	2CMT3	—
600 lb	12 in	0.5 in	2.0 in	50	3OPR61	—	—
	17 ½ in	0.5 in	4.0 in	50	3OPR62	—	—
900 lb	17 ½ in	0.63 in	4.0 in	50	3OPR63	—	—
	23 in	0.63 in	6.0 in	50	3OPR64	—	—

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Pkg. Qty.	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Panduit Pan-Steel MLT Series Color-Coded Cable Ties, 316 Stainless Steel										
250 lb	7 ½ in	0.31 in	2.0 in	50	3OPR65	3OPR66	3OPR67	3OPR68	3OPR69	3OPR70
	14 ½ in	0.31 in	4.0 in	50	3OPR71	3OPR72	3OPR73	3OPR74	3OPR75	3OPR76



Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Pkg. Qty.	MRT Series Item No.	MRS Series Item No.
Panduit Pan-Steel Retained Tension Ties, 304 Stainless Steel						
180 lb	9 in	0.18 in	1.0 in	100	—	2CMU2
	12 in	0.18 in	2.0 in	100	2CMT4	2CMU3
	18 ½ in	0.18 in	4.0 in	100	2CMT5	2CMU4
	24 ½ in	0.18 in	6.0 in	100	2CMT6	—
225 lb	10 ½ in	0.25 in	1.5 in	50	2CMT7	2CMU5
	12 in	0.25 in	2.0 in	50	2CMT8	2CMU6
	18 ½ in	0.25 in	4.0 in	50	2CMT9	2CMU7
	24 ½ in	0.25 in	6.0 in	50	2CMU1	—



No. 1LEW2



No. 1LEW3

PANDUIT® Super-Grip® Cable Ties

Designed to withstand rough installation practices. Flexible, with high grip strength and tensile strength. Tapered tip threads easily into head. Nylon pawl locking design withstands temperatures ranging from -76° to 185°F.

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Pkg. Qty.	NATURAL COLOR (INDOOR) Mfr. Model	NATURAL COLOR (INDOOR) Item No.	BLACK (UV RESISTANT OUTDOOR) Mfr. Model	BLACK (UV RESISTANT OUTDOOR) Item No.
Miniature								
18 lb	4 in	0.12 in	0.9 in	100	SG100M-C	**1LEW2**	SG100M-C0	**1LEW3**
Intermediate								
40 lb	6 in	0.17 in	1.5 in	100	SG150I-C	**1LEW4**	SG150I-C0	**1LEW5**
Standard								
50 lb	8 in	0.22 in	2.0 in	100	SG200S-C	**1LEW6**	SG200S-C0	**1LEW7**
75 lb	12 in	0.22 in	3.2 in	100	SG300S-C	**1LEW8**	SG300S-C0	**1LEW9**
75 lb	15 in	0.22 in	4.2 in	50	SG370SG-L	**1LEX3**	SG370SG-L0	**1LEX4**
Heavy Duty								
120 lb	15 in	0.33 in	4.13 in	25	SG350LHG-Q	**1LEX1**	SG350LHG-Q0	**1LEX2**
Extra Heavy Duty								
175 lb	18 ½ in	0.38 in	5.2 in	25	SG450HG-Q	**1LEX5**	SG450HG-Q0	**1LEX6**



Detectable Nylon



PEEK



Tefzel®

Tensile Strength	Approx. Length	Width	Max. Bundle Dia.	Color	Brand	Item No.	Pkg. Qty.
Detectable Nylon 6/6							
18 lb	0 to 3 ½ in	0.09 in	0.63 in	Blue	Ty-Rap®	**2FDD5**	100
50 lb	7 in	0.19 in	1.75 in	Blue	Ty-Rap®	**2FDD6**	100
50 lb	14 in	0.19 in	4.0 in	Blue	Ty-Rap®	**2FDD7**	100
120 lb	13 in	0.27 in	3.5 in	Blue	Ty-Rap®	**2FDD8**	50
18 lb	0 to 3 ½ in	0.1 in	0.87 in	Blue	Panduit	**9PAW8**	100
40 lb	8 in	0.13 in	2.0 in	Blue	Panduit	**8GVU9**	100
50 lb	7 in	0.19 in	1.85 in	Blue	Panduit	**8TVX2**	100
50 lb	11 ½ in	0.19 in	3.0 in	Blue	Panduit	**8GVX0**	100
50 lb	14 ½ in	0.19 in	4.0 in	Blue	Panduit	**8GVX1**	100
PEEK							
150 lb	7 in	0.19 in	1.88 in	Brown	Panduit	**2CND7**	100
Tefzel							
18 lb	4 in	0.1 in	0.87 in	Aqua	Panduit	**2CND8**	100
30 lb	8 in	0.13 in	2.0 in	Aqua	Panduit	**2CND9**	100
50 lb	7 in	0.19 in	1.88 in	Aqua	Panduit	**2CNE1**	100
50 lb	11 ½ in	0.19 in	3.0 in	Aqua	Panduit	**2CNE2**	100
50 lb	14 ½ in	0.19 in	4.0 in	Aqua	Panduit	**2CNE3**	100
120 lb	11 ½ in	0.3 in	3.0 in	Aqua	Panduit	**2CNE4**	50
120 lb	14 ½ in	0.3 in	4.0 in	Aqua	Panduit	**2CNE5**	50

Specialty Cable Ties

Ty-Rap® PANDUIT®

TY-RAP DETECTABLE

Nonmetallic ties incorporate a unique compound for detection by metal detectors and x-ray equipment, necessary to avoid contamination in food-processing areas. They provide the advantages of Ty-Rap®, including no-notch body and infinite adjustment, without the expense of stainless steel. Colored bright blue for visibility and withstanding temperatures ranging from -40° to 185°F. UL 94V-2.

PANDUIT METAL DETECTABLE

These ties feature metal-impregnated material that make them identifiable to metal detectors. Curved, tapered tip provides easy pickup from flat surfaces and allows faster threading speed. Unique blue color allows visual identification of tie on conveyor belts. Smooth, round edges make them perfect for fastening cables and hoses in processing and packaging areas.

PANDUIT HIGH-TEMP. PEEK (POLYETHERETHERKETONE)

Harsh-environment tie holds up to chemical or radiation exposure and temperatures from -76°F to 500°F. Used for strain relief for leads on electric pump stators, and for wire management with instrumentation tools in the oil- and gas-drilling industries. 1-pc. tie has a low threading force and high-strength, nonconductive material.

PANDUIT HIGH-TEMP. TEFZEL® EFTE FLUOROPOLYMER

Ties resist chemical attack, gamma and ultraviolet radiation, and extreme temperatures (-76° to 338°F). Used to fasten wires in nuclear power facilities and chemical processing plants, indoors or outdoors. Tefzel pawl design has a low threading force.



No. 1A870



No. 4YF44



No. 1LEV6



No. 1A873



No. 1LEV7



No. 6EEF6



No. 6EEF5



No. 1LEV8



No. 6EEF0

Cable Tie Mounts, Clamps, and Clips

GA GRAINGER APPROVED Ty-Rap® PANDUIT®

Cable tie mounting pads accept standard cable ties or hook-and-loop ties.

Clip Type	Slot Width	Slot Height	Mounting Method	Material of Construc.	L	W	H	Brand	Mfr. Model	Item No.	Pkg. Qty.
Cable Tie Mounting Pads											
Two-Way	0.30"	0.09 in	Adhesive Backed	Nylon 6/6	1.25"	1.00"	0.28"	GA	6EEE6	**6EEE6**	100
Two-Way	0.3 in	0.09 in	Adhesive Backed	Nylon 6/6	1.25 in	1.0 in	0.29 in	Ty-Rap®	MCNY-1250-9-C	**1A870**	100
Four-Way	0.14"	0.05 in	Adhesive Backed	Nylon 6/6	0.75"	0.75"	0.19"	GA	6EEE7	**6EEE7**	100
Four-Way	0.16 in	0.06 in	Adhesive Backed	Nylon 6/6	0.75 in	0.75 in	0.16 in	Ty-Rap®	MPNY-750-9-C	**1A871**	100
Four-Way	0.20"	0.07 in	Adhesive Backed	Nylon 6/6	1.10"	1.10"	0.24"	GA	6EEE8	**6EEE8**	100
Four-Way	0.2 in	0.06 in	Adhesive Backed	Nylon 6/6	0.75 in	0.75 in	0.16 in	Panduit	SGABM20-A-C	**1LEV3**	100
Four-Way	0.2 in	0.07 in	Adhesive Backed	Nylon 6/6	1.13 in	1.13 in	0.2 in	Ty-Rap®	MPNY-1000-9-C	**1A872**	100
Four-Way	0.25 in	0.06 in	Adhesive Backed	Nylon 6/6	1.0 in	1.0 in	0.2 in	Panduit	SGABM25-A-C	**1LEU9**	100
Four-Way	0.42 in	0.09 in	Adhesive Backed	Nylon 6/6	1.5 in	1.5 in	0.3 in	Panduit	SGABM40-A-L	**1LEV1**	50
Four-Way	0.42 in	0.09 in	Adhesive Backed	Nylon 6/6	2.0 in	2.0 in	0.3 in	Panduit	SGABM50-A-L	**1LEV2**	50
Four-Way	0.54"	0.54 in	Adhesive Backed	Nylon 6/6	1.50"	1.50"	0.30"	GA	6EEF3	**6EEF3**	100
Four-Way	0.81 in	0.13 in	Adhesive Backed	Nylon 6/6	2.0 in	2.0 in	0.26 in	Ty-Rap®	TC368A	**4YF44**	25
Cable Tie Masonry Mounting Pads											
Side Entry	0.25 in	0.1 in	Push Barb	Weather-Resistant Nylon 6/6 Black	0.4 in	0.4 in	1.24 in	Panduit	SGMPMS25-C0	**1LEV5**	100
Side Entry	0.4 in	0.1 in	Push Barb	Weather-Resistant Nylon 6/6 Black	0.53 in	0.55 in	1.49 in	Panduit	SGMPMH38-L0	**1LEV6**	50
Cable Tie Bases											
Two-Way	0.19 in	0.21 in	Adhesive Backed	Nylon 6/6	1.13 in	1.13 in	0.25 in	Ty-Rap®	TC5342A-NDT	**30EK68**	100
Saddle Support	0.19 in	0.27 in	Screw	Nylon 6/6	0.67 in	0.43 in	0.33 in	Ty-Rap®	TC5141-NDT	**30EK67**	100
Four-Way	0.14 in	0.13 in	Screw	Polypropylene	0.75 in	0.75 in	0.19 in	Ty-Rap®	TC5344A-PDT	**30EK70**	100
Four-Way	0.3 in	0.3 in	Screw	Nylon 6/6	1.13 in	1.13 in	0.34 in	Ty-Rap®	TC5347A-NDT	**30EK69**	100
Cable Clips											
Top Entry	0.25 in	0.25 in	Adhesive Backed	PVC	0.75 in	0.75 in	0.47 in	Ty-Rap®	GU250RT	**1A877**	25
Top Entry	0.5 in	0.5 in	Adhesive Backed	PVC	1.0 in	1.0 in	0.69 in	Ty-Rap®	GU500RT	**1A878**	25
Side Entry	0.25 in	0.25 in	Adhesive Backed	PVC	0.75 in	0.75 in	0.38 in	Ty-Rap®	GC250RT	**1A873**	25
Side Entry	0.38 in	1.0 in	Adhesive Backed	Nylon 6/6	1.0 in	1.0 in	0.38 in	Panduit	ACC38-A-C	**1LEV7**	100
Side Entry	0.5 in	0.5 in	Adhesive Backed	PVC	1.0 in	1.0 in	0.63 in	Ty-Rap®	GC500RT	**1A874**	25
L-Type	0.55"	0.55 in	Adhesive Backed	Nylon 6/6	1.18"	1.00"	0.73"	GA	6EEF6	**6EEF6**	25
L-Type	0.71"	0.71 in	Adhesive Backed	Nylon 6/6	1.18"	1.00"	0.87"	GA	6EEF7	**6EEF7**	25
Locking	0.25 in	0.25 in	Adhesive Backed	PVC	0.75 in	0.75 in	0.56 in	Ty-Rap®	GL250RT	**1A875**	25
Locking	0.5 in	0.5 in	Adhesive Backed	PVC	1.0 in	1.0 in	0.84 in	Ty-Rap®	GL500RT	**1A876**	25
C-Type	0.23"	0.19 in	Adhesive Backed	Nylon 6/6	0.75"	0.75"	0.37"	GA	6EEF4	**6EEF4**	25
C-Type	0.70"	0.52 in	Adhesive Backed	Nylon 6/6	1.00"	1.00"	0.68"	GA	6EEF5	**6EEF5**	25
Cable Clamps											
Screw-On	0.25"	0.41 in	Screw	Nylon 6/6	0.41"	0.37"	0.41"	Panduit	CCS25-S8-C	**1LEV8**	100
Screw-On	0.38"	0.50 in	Screw	Nylon 6/6	0.50"	0.50"	0.48"	Panduit	CCH38-S10-C	**1LEV9**	100
Screw-On	0.50"	0.60 in	Screw	Nylon 6/6	0.60"	0.37"	0.60"	Panduit	CCS50-S8-C	**1LEW1**	100
Fixed Diameter	0.17"	Not Applicable	Screw	Nylon 6/6	0.86"	0.37"	0.43"	GA	6EEF0	**6EEF0**	100
Fixed Diameter	Not Applicable	Not Applicable	Screw	Nylon 6/6	0.76"	0.38"	0.27"	GA	6EEE9	**6EEE9**	100
Fixed Diameter	Not Applicable	Not Applicable	Screw	Nylon 6/6	1.06"	0.37"	0.19"	GA	6EEF1	**6EEF1**	100

Cable Tie Installation Tools

DOLPHIN Ty-Rap® PANDUIT®

Tools are used to tension and cut ties.

Cable Tie Tensile Strength	Cable Tie Width	Handle Type	Material of Construc.	Adjustable Tension	Description/ Special Features	Brand	Mfr. Model	Item No.
For Use With Nylon Cable Ties								
0 to 60 lb	0.094 in to 0.184 in	Adjustable Span Grip	Plastic	Yes	Antirecoil	Ty-Rap®	L-400-C	**1A887**
8 to 50 lb	0.070 in to 0.190 in	Ergonomic	Impact Resistant Resin	Yes	Narrow Nose	Panduit	GTS-E	**52ZJ96**
18 to 50 lb	0.094 in to 0.184 in	Cushion Grip	High Impact Polymer	Yes	360° Rotatable Nose, Holds Trimmed Off Tails Captive, Adjustable Grip Span	Ty-Rap®	ERG50	**1TBD8**
18 to 50 lb	0.094 in to 0.184 in	Plain	High Impact Polymer	No	—	Ty-Rap®	WT1-TB	**3KH51**
18 to 50 lb	0.094 in to 0.184 in	Plain	High Impact Polymer	No	—	Ty-Rap®	QC-100	**5A308**
50 to 120 lb	0.184 in to 0.270 in	Cushion Grip	High Impact Polymer	Yes	360° Rotatable Nose, Holds Trimmed Off Tails Captive, Adjustable Grip Span	Ty-Rap®	ERG120	**1TBD9**
50 to 120 lb	0.184 in to 0.301 in	Plain	High Impact Polymer	No	—	Ty-Rap®	WT2-TB	**3KH53**
50 to 175 lb	0.190 in to 0.350 in	Ergonomic	Impact Resistant Resin	Yes	Narrow Nose	Panduit	GTH-E	**52ZJ97**
For Use With Stainless Steel Cable Ties								
100 lb	0.170 in	Cushion Grip	Steel	No	Dual Lock	Ty-Rap®	WTA-290	**3KH55**
100 lb	0.050 in	Plain	Steel	Yes	Built-in Tension Indicator	Dolphin Components Corp	CTG-6	**14L582**
180 to 225 lb	0.180 in to 0.250 in	Cushion Grip	Impact Resistant Metal	Yes	Holds Trimmed Off Tails Captive	Panduit	MTRTLS	**2CMV1**
200 to 600 lb	0.180 in to 0.310 in	Plain	Impact Resistant Metal	Yes	Side Entry of Ties	Panduit	GS4MT-E	**2CMU8**
200 to 800 lb	0.180 in to 0.500 in	Cushion Grip	Impact Resistant Metal	No	Twist Action Cutoff	Panduit	ST2MT	**2CMU9**
250 lb	0.250 in	Cushion Grip	Steel	No	Dual Lock	Ty-Rap®	WTA-250	**3KH54**
250 lb	0.310 in to 0.630 in	Soft Grip	Stainless Steel	Yes	12V, Automatic Cut-Off	Panduit	PBTMT	**30PR86**



PANDUIT® Ty-Rap®

Hook-and-Loop-Style Cable Ties

Adjustable, releasable, and reusable hook-and-loop ties are great for applications requiring frequent moves, adds, or changes. Hook-and-loop fasteners protect against overtensioning.

Note: Min. 2" overlap is required to achieve loop tensile rating.

Color	Max. Bundle Dia.	Tensile Strength	W	L	Brand	Item No.	Pkg. Qty.
Black	1.9 in	40 lb	0.5 in	8.0 in	Panduit	**2CNE8**	10
Black	3.1 in	40 lb	0.5 in	12.0 in	Panduit	**2CNE9**	10
Black	2.0 in	40 lb	0.5 in	9.0 in	Ty-Rap®	**4YF24**	10
Black	2.0 in	50 lb	0.75 in	9.0 in	Ty-Rap®	**4YF25**	10
Black	3.5 in	40 lb	0.75 in	13.0 in	Ty-Rap®	**4YF26**	10
Black	3.5 in	50 lb	0.75 in	13.0 in	Ty-Rap®	**4YF27**	10
Plenum Rated							
Black	1.9 in	40 lb	0.5 in	8.0 in	Panduit	**2CNF7**	10
Maroon	1.9 in	40 lb	0.5 in	8.0 in	Panduit	**2CNF8**	10
Black	3.1 in	40 lb	0.5 in	12.0 in	Panduit	**2CNF9**	10
Maroon	3.1 in	40 lb	0.5 in	12.0 in	Panduit	**2CNG1**	10



Buckle-Style Hook-and-Loop Cable Ties

PANDUIT® Ty-Rap®

Hooks and loops are on the same side for a greater range of bundle dia. Temperature range: 0° to 140°F. Contoured cinch ring is low-profile, provides extra strength and bundle tightness, and reduces overall bundle size. Grommet styles add strength and pullout resistance; excellent for cabinet applications.

Note: See Grainger.com® for additional color options.

Description	Tensile Strength	W	Brand	Pkg. Qty.	12.0 in Max. Bundle Dia.	12.0 in Item No.	18.0 in Max. Bundle Dia.	18.0 in Item No.
Standard	50 lb	0.85 in	Panduit	10	3.0 in	**2CNH2**	5.0 in	**2CNH3**
Standard	50 lb	0.75 in	Ty-Rap®	10	3.0 in	**4YF28**	5.0 in	**4YF29**
With Center Grommet	50 lb	0.85 in	Panduit	10	3.0 in	**2CNH4**	5.0 in	**2CNH5**
With End Mount Grommet	50 lb	0.85 in	Panduit	10	3.0 in	**2CNH6**	5.0 in	**2CNH7** *

**** 18.7" length.***



Description	Max. Bundle Dia.	Tensile Strength	Color	W	L	Brand	Item No.	Pkg. Qty.
Pre-Cut Strips	1.5 in	50 lb	Black	0.75 in	6.0 in	Ty-Rap®	**4YF31**	10
Pre-Cut Strips	1.6 in	50 lb	Black	0.75 in	7.0 in	Panduit	**2CNH9**	100
Pre-Cut Strips	3.2 in	50 lb	Black	0.75 in	12.0 in	Ty-Rap®	**4YF32**	10
Pre-Cut Strips	5.0 in	50 lb	Black	0.75 in	18.0 in	Ty-Rap®	**4YF33**	10
Perforated Ties	1.5 in	50 lb	Black	0.75 in	6.0 in	Panduit	**2CNF1**	10
Perforated Ties	3.2 in	50 lb	Black	0.75 in	12.0 in	Panduit	**2CNF2**	10
Perforated Ties	5.0 in	50 lb	Black	0.75 in	18.0 in	Panduit	**2CNF3**	10
Continuous Roll	Variable	40 lb	Black	0.33 in	15 ft	Panduit	**2CNF4**	1
Continuous Roll	Variable	50 lb	Black	0.75 in	15 ft	Panduit	**2CNF5**	1
Continuous Roll	Variable	50 lb	Black	0.75 in	75 ft	Panduit	**2CNF6**	1
Bulk Roll w/ Cutter	3.0 in	40 lb	Black	0.75 in	35 ft	Panduit	**2CNH1**	10
Bulk Roll	5.0 in	50 lb	Black	0.75 in	15 ft	Ty-Rap®	**4YF30**	1
Plenum Rated								
Perforated Ties	1.5 in	50 lb	Black	0.75 in	6.0 in	Panduit	**2CNG2**	10
Perforated Ties	1.5 in	50 lb	Maroon	0.75 in	6.0 in	Panduit	**2CNG3**	10
Perforated Ties	3.2 in	50 lb	Black	0.75 in	12.0 in	Panduit	**2CNG4**	10
Perforated Ties	3.2 in	50 lb	Maroon	0.75 in	12.0 in	Panduit	**2CNG5**	10
Perforated Ties	5.0 in	50 lb	Black	0.75 in	18.0 in	Panduit	**2CNG6**	10





Ty-Rap® PANDUIT®

Strip-Style Hook-and-Loop Cable Ties

Plenum-rated ties temperature range: 0° to 122°F (-18° to 50°C). UL 94V-2. Other ties (including rolls): temperature range: 0° to 220°F.

Tensile Strength	Includes	Color	Max. Bundle Dia.	W	L	Item No.	Pkg. Qty.
Wrap							
14 lb	—	Black	0.8 in	0.25 in	3.5 in	**45FJ70**	7
	—	White	0.8 in	0.25 in	3.5 in	**45FJ73**	252
90 lb	Ties for Attachment to Cable	Black	4.0 in	2.0 in	18.0 in	**45FH61**	10
	Ties for Attachment to Cable	Black	2.3 in	1.0 in	9.0 in	**45FH16**	10
	Acrylic Adhesive Back for Permanent Attachment to Smooth Surface	Black	0.5 in	1.0 in	2.0 in	**45FH63**	5
Cut to Length							
50 lb	—	Black	Variable	0.5 in	75 ft	**45FH86**	1
	—	Black	Variable	0.75 in	75 ft	**45FJ17**	1
Buckle							
90 lb	Brass Grommets	Black	2.5 in	1.0 in	10.0 in	**45FH76**	2
	Brass Grommets and Polypropylene Webbing	Black	2.5 in	1.0 in	10.0 in	**45FH78**	2
	Brass Grommets and Polypropylene Webbing	Black	4.0 in	2.0 in	16.0 in	**45FH83**	10

RIP-TIE FUZZY CABLE WRAPS®

Rip-Tie® Hook-and-Loop Ties

Heavy-duty straps and ties are nonmetallic and can be used safely around electrical equipment without causing short circuits.

Note: Other sizes and colors are available on Grainger.com®.









No. 3GUK7



No. 3GUL4



No. 3GUL3

CONSTRUCTION ELECTRICAL PRODUCTS

Power Distribution Carts and Power Stations

Stainless steel construction with heavy-duty frames. Clear breaker panel window. Automatic GFCI reset. NEMA 3R enclosure. UL 1640 Listed. Nos. 14N245 and 14N246 are C-UL Listed.

CORD SETS

SOW jacket. Max. 250V. Temp. range: -40° to 90°C.

Features	Voltage Rating	Amps	No. of Poles	No. of Wires	Cord Length	Inlet	Outlet	Mfr. Model	Item No.
Power Distribution Carts									
Main Circuit Breaker	120/208VAC	100	4	5	20ft.	Direct Wired	(4) 20A @ 120/208V L21-20R Non-GFCI, (2) 20A @ 125V 5-20R GFCI	6211DC2	**14N245**
	120/208VAC	200	4	5	—	Cam Locks	(8) 20A @ 120/208V L21-20R Non-GFCI, (2) 20A @ 125V 5-20R GFCI	6221CC	**14N246**
3-Phase	120/208VAC	100	4	5	20 ft.	Direct Wired	(10) 20A @ 125V GFCI, (2) 30A @ 250V Non-GFCI	6210DC	**3GUK7**
	120/208VAC	100	4	5	20 ft.	Direct Wired	(4) 50A @ 125/250V Non-GFCI, (2) 20A @ 125V GFCI	6212DC	**3GUK8**
	120/208VAC	200	4	5	—	Cam Locks	(6) 50A @ 125/250V, (2) 30A @ 250V Non-GFCI, (2) 20A @ 125V GFCI 5-20R	6220CC	**3GUK9**

kVA Rating	Amps	Phase	Input Voltage	Input Protection	Output Voltage	Output Connection	Mfr. Model	Item No.
Portable Power Stations								
15	50	Three	480VAC	30A Fused Disconnect	120 to 208VAC	(2) L6-30R 250V Non-GFCI and (10) 5-20R 125V GFCI Receptacles	6210PDC15-2	**3GUL2**
30	100	Three	480VAC	60A Fused Disconnect	120 to 208VAC	(4) 50A 125/250V Non-GFCI and (2) 20A 125V GFCI Receptacles	6212PDC30-2	**3GUL4**
30	100	Three	480VAC	60A Fused Disconnect	120 to 208VAC	(2) L6-30R 250V Non-GFCI and (10) 5-20R 125V GFCI Receptacles	6210PDC30-2	**3GUL3**

Description	No. of Outlet Boxes	Max. Amps	Voltage	Gauge/ Conductor	LENGTH OPTIONS Cord Length	LENGTH OPTIONS Item No.	LENGTH OPTIONS Cord Length	LENGTH OPTIONS Item No.
Cord Sets								
Extension Cord	—	20.0	120/208VAC	12/5	50 ft.	**14N240**	100 ft.	**14N241**
	—	20.0	120/240VAC	10/4	50 ft.	**14N231**	100 ft.	**14N230**
	—	30.0	120/208VAC	10/5	50 ft.	**14N242**	100 ft.	**14N243**
	—	30.0	120/240VAC	10/4	50 ft.	**14N229**	100 ft.	**14N228**
Generator Cord with Pendant Box	1	20.0	120/240VAC	12/4	50 ft.	**14N234**	100 ft.	**14N235**
	1	20.0	120/240VAC	12/4	4 ft.	**14N232**	25 ft.	**14N233**



No. 13M204

Pendant Drop Outlet Boxes

KH INDUSTRIES

Feature crushproof polycarbonate inner cages and overmolded rubber housings that resist oils, chemicals, and heat. Integrated strain relief and bonding strap. Include mesh style bus drop hanger, single eye. Prewired with SOOW cord.

Max. Amps	Voltage	Gauge/ Conductor	NEMA Plug Config.*	NEMA Recep. Config.*	25 FT. CORD Item No.	50 FT. CORD Item No.
Straight Blade						
15.0	120VAC	12/3	5-15P	5-15R	**13M204**	13M205
20.0	120VAC	12/3	5-20P	5-20R	**13M206**	13M207
Twist Lock						
20.0	120/240VAC	12/4	L14-20P	5-20R	**13M208**	13M209

** See pages 334 and 335 for NEMA plug configurations.*



No. 14A288

Power Stringers

KH INDUSTRIES

Heavy-duty temporary power stringers include plugs, receptacles, and applicable power connector. Built using KH heavy-duty feed through outlet box, each box has 1 duplex cover plate with SOOW 10- to 12-ga. 600V cord. Outlet boxes are spaced 10 ft. apart.

Voltage	Cord Length	Gauge/ Conductor	No. of Outlets	NEMA Plug Config.*	NEMA Recep. Config.*	DEAD END Item No.	FEED THROUGH Item No.
120VAC	30 ft.	12/3	6	5-20P	5-20R	**14A287**	**14A288**
120/240VAC	30 ft.	12/4	4	L14-20P	5-20R	**14A289**	**14A291**
120/240VAC	60 ft.	12/4	8	L14-20P	5-20R	**14A290**	**14A292**
120/208VAC	30 ft.	10/5	6	L21-20P	5-20R	**14A293**	**14A295**
120/208VAC	60 ft.	10/5	12	L21-20P	5-20R	**14A294**	**14A296**

** See pages 334 and 335 for NEMA plug configurations.*

POWER FIRST

Temporary Power Systems

- For indoor and outdoor use
- Power cords sold separately

GFCI distribution boxes feature outlets with circuit breaker protection. Raintight NEMA 3R construction. Power cords have heavy-duty STW jackets. UL, C-UL, and ETL Listed.



No. 4HDX1



No. 4HDX3

No. of Poles	No. of Wires	Outlet*	Amps	Voltage Rating	Color	Item No.
Power Distribution Boxes, Automatic Reset GFCI, L14-50 Inlet						
3	4	(1) L6-30R Locking Non-GFCI Protected, (6) NEMA L5-20R Locking GFCI Protected	50	120/240VAC	Yellow	**4HDX1**
3	4	(6) 5-20R GFCI Protected Receptacles, (1) L6-30R Locking Non GFCI Protected Receptacle	50	120/240VAC	Yellow	**4HDX2**

No. of Poles	No. of Wires	Plug End	Connector End	Max. Amps	Voltage Rating	Color	Cord Length	Item No.
Temporary Power Cords, PVC								
3	4	CS6365	CS6364	50	125/250VAC	Black	50 ft.	**4HDX3**
3	4	CS6365	CS6364	40	125/250VAC	Black	100 ft.	**4HDX4**

** See pages 334 and 335 for NEMA plug configurations.*

HUBBELL® Wiring Device-Kellems

Temporary Power Systems

- For indoor and outdoor use

Hubbell's Spider® Box meets NEC requirements for personal protection against electrical shock on job sites and is listed at the latest UL 1640 standard for portable power distribution equipment. Provide temporary power access for 20A and 30A straight-blade or Twist-Lock® devices in a metal NEMA 3R raintight enclosure. Compact and easy to store. UL Listed; No. 1DNU8 is also CSA Certified.

50A-input models are for use with Twist-Lock® connector No. 3D322; see page 338.



No. 4D577

Outlet*	Amps	Voltage Rating	Cord Length	Color	Mfr. Model	Item No.
Spider II Power Distribution Boxes, Manual Reset GFCI						
(6) 5-20R, (1) L6-30	50	120/240VAC	—	Yellow	TPDS	**1DNV1**
(6) L5-20R, (1) L6-30	50	120/240VAC	—	Yellow	TPDL	**1DNU9**
(7) L5-20R, (1) 50A Twist Lock	50	120/240VAC	—	Yellow	SBTL1A	**4D572**
(7) 5-20R, (1) 50A Twist Lock	50	120/240VAC	—	Yellow	SBSB1A	**4D577**
(6) 5-20R GFCI, (1) 60A Pin and Sleeve	60	120/208VAC	—	Yellow	SCSB0	**1DNU8**
(6) 5-20R GFCI, (1) 60A Class L	60	120/208VAC	—	Green	SCSB0M2	**5LY80** †
Accessories						
Power Cord, 3-Pole, 4-Wire	50	125/250VAC	50 ft.	Yellow	SCB50	**4D562**
Power Cord, 3-Pole, 4-Wire	50	125/250VAC	50 ft.	Black	TPC50	**12R421**
Power Cord, 3-Pole, 4-Wire	50	125/250VAC	100 ft.	Black	TPC100	**12R422**
Prewired Receptacle	50	125/250VAC	—	Yellow	SR50	**4D583**

** See pages 334 and 335 for NEMA plug configurations. † Military Class L inlet and feed through and NATO 383 green color.*

CEP CONSTRUCTION ELECTRICAL PRODUCTS

Temporary Power Systems

- Open ground and open neutral protection

1-phase GFCI. Boxes are UL and C-UL Listed. No. 3GUJ8 has automatic reset. Nos. 3GUK3 and 3GUK4 meet MSHA; cords have flame- and oil-resistant STOW outer jacket. All Power Distribution Boxes with Automatic Reset include 6 individually protected GFCI circuits.



No. 3GUH9



No. 3GUJ6

No. of Poles	No. of Wires	Outlet*	Amps	Voltage Rating	HEAVY-DUTY STEEL Mfr. Model	HEAVY-DUTY STEEL Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
1-Phase, Automatic GFCI With Frame								
3	4	(6) 5-20R GFCI, (1) L6-30R	50	120/240VAC	8706GU	**3GUJ1**	—	—
1-Phase, Automatic GFCI With Legs								
3	4	(4) 5-20R GFCI	30	120/240VAC	6507GU	**4MZX6**	—	—
3	4	(4) 5-20R GFCI	50	120/240VAC	6508GU	**4MZX8**	—	—
3	4	(4) L5-20R GFCI	50	120/240VAC	6508G	**4MZX7**	—	—
3	4	(4) L5-20R GFCI	30	120/240VAC	6507G	**4MZX5**	—	—
3	4	(6) 5-20R GFCI, (1) L6-30R	50	120/240VAC	—	—	7506GU	**3GUJ7**
3	4	(6) 5-20R GFCI Single, (1) L6-30R Single	50	120/240VAC	6506GU	**3GUJ3**	—	—
3	4	(6) L5-20R GFCI, (1) L6-30R	50	120/240VAC	6506G	**3GUJ2**	7506G	**3GUJ6**
1-Phase, Automatic Reset GFCI With Frame								
3	4	(6) 5-20R GFCI, (1) L6-30R	50	120/240VAC	8806GUF	**53PC84** †	7706GU	**3GUJ5**
3	4	(6) L5-20R GFCI, (1) L6-30R	50	120/240VAC	8706G	**3GUH9**	7706G	**3GUJ4**
3	4	(6) L5-20R GFCI, (1) L6-30R	50	120/240VAC	8806GF	**53PC87** †	—	—
1-Phase With Frame								
3	4	(4) 30A @ 125/250V L14-30R Non-GFCI	50	120/240VAC	6606GUF554	**53PC82**	—	—
3	4	(6) 30A @ 125/250V L14-30R Non-GFCI	50	120/240VAC	6606GUF556	**53PC83**	—	—
3-Phase With Frame								
4	5	(4) 20A @ 120/208V L21-20R Non-GFCI	200	120/208VAC	—	—	6606GUSF304	**53PC86**
4	5	(6) 50A @ 125/250V Non-GFCI	200	120/208VAC	—	—	6606GUSF256	**53PC85**

Item	Cord Length	No. of Poles	No. of Wires	Plug End	Connector End	Max. Amps	Voltage Rating	Mfr. Model	Item No.
Accessories									
Adapter	2 ft.	3	4	14-30P	CS6364	30	125/250VAC	6408M	**3GUK1**
Adapter	2 ft.	3	4	14-50P	CS6364	50	125/250VAC	6409M	**3GUK2**
Automatic Reset GFCI Module	—	2	3	No Plug	None	20	125VAC	GF6095	**3GUJ8**
Temporary Power Cord	50 ft.	3	4	CS6365	CS6364	50	125/250VAC	6450S	**3GUK3**
Temporary Power Cord	100 ft.	3	4	CS6365	CS6364	50	125/250VAC	6400S	**3GUK4**
Temporary Power Cord	6 ft.	4	5	Bare Wire	5100C9W	100	120/208VAC	5100PC	**4NAF1**
Prewired Receptacle	—	3	4	Bare Wire	L14-30R	30	125/250VAC	SR30	**3GUK5**
Prewired Receptacle	—	3	4	Bare Wire	CS6369	50	125/250VAC	SR50	**3GUK6**

** See pages 334 and 335 for NEMA plug configurations. † Wall mount.*

Description	6 FT., CAM LOCK POWER SUPPLY CORD (FEMALE CONNECTOR ONLY) Item No.	10 FT., CAM LOCK POWER SUPPLY CORD (FEMALE CONNECTOR ONLY) Item No.	25 FT., CAM LOCK EXTENSION CORD Item No.
Power Supply and Extension Cords, 600VAC, Black			
2/0 Wire Size			
Black Cam	**4NAE5**	—	**4NAF7**
Blue Cam	**4NAE6**	—	**4NAF8**
Green Cam	**4NAE7**	—	**4NAF9**
Red Cam	**4NAE8**	—	**4NAG1**
White Cam	**4NAE9**	—	**4NAG2**
4/0 Wire Size			
Black Cam	—	**4NAG3**	**4NAF2**
Blue Cam	—	**4NAG4**	**4NAF3**
Green Cam	—	**4NAG5**	**4NAF4**
Red Cam	—	**4NAG6**	**4NAF5**
White Cam	—	**4NAG7**	**4NAF6**



Swivel Stem Mount No. 5U790



Swivel Stem Mount No. 6P008



Swivel Stem with Top-Mounted Photo Eye No. 13E059



Stem Mount No. 6P007



Locking Plug No. 6P006



Wired-in No. 6P005

Photocontrols

INTERMATIC

Designed for outdoor use, these commercial-grade thermal photocontrols (except instant On/Off) feature a built-in delay to prevent false cycling due to car headlights, lightning, etc. Cadmium sulfide photocell and sonic-welded polycarbonate case and lens. UL Listed and CSA Certified (except No. 5U789).

Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Temp. Range	L	W	D	Mfr. Model	Item No.	
½" -14 Male Threaded, Swivel Stem												
120 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	5¾"	3"	3"	K4236C	**5U790**	
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	5½"	1 9⁄16"	1 9⁄16"	K4221C	**6P008**	*
208 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	5½"	1 9⁄16"	1 9⁄16"	K4223C	**20XE98**	
½" -14 Male Threaded, Swivel Stem with Top-Mounted Photo Eye												
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	5½"	1½"	1½"	K4251	**13E059**	
208 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	5½"	1½"	1½"	K4253	**13E060**	
½" -14 Male Threaded Stem With Light Level Shield												
105 to 305VAC	1000	15.0	8.3	1.5	2.25	-40° to 158°F	2¼"	1⅓"	1¼"	EK4136S	**52RU69**	
105 to 305VAC	1800	15.0	15.0 to 6.5	1.5	2.25	-40° to 158°F	5⅜"	1¼"	1 9⁄16"	EK4236S	**49ZZ47**	
105 to 305VAC	1800	15.0	15.0 to 6.5	1.5	2.25	-40° to 158°F	2 11⁄16"	3¾"	2¼"	EK4436SM	**49ZZ48**	
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	2 5⁄16"	1 9⁄16"	1 9⁄16"	K4121C	**6P007**	
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	3"	1 9⁄16"	1 9⁄16"	K4421M	**20XF01**	†
120VAC	3000	25.0	25.0	1.0 to 5.0	3 to 15	-40° to 158°F	2 5⁄16"	1 9⁄16"	1 9⁄16"	K4141C	**5U789**	
208 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	2 5⁄16"	1 9⁄16"	1 9⁄16"	K4123C	**5U788**	
208 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	3"	1 9⁄16"	1 9⁄16"	K4423M	**20XE99**	†
⅜"-18 Male Threaded Stem With Light Level Shield												
105 to 305VAC	1000	15.0	8.3	1.5	2.25	-40° to 158°F	2¼"	1⅓"	1¼"	EK4036S	**52RU68**	
Locking Plug Type												
105 to 305VAC	1000	—	6.0	1.2 to 3.0	2 to 5	-40° to 158°F	5 51⁄64"	3½"	3½"	EK4536	**20XE70**	
105 to 305VAC	1800	15.0	2.0	1.5	2.25	-40° to 158°F	2 7⁄32"	3 3⁄16"	3 3⁄16"	ELC4536	**49ZZ49**	
120 to 277VAC	2300	15.0	8.3	0.5	15	-40° to 158°F	2¾"	3"	3"	LC4536C	**5U792**	
120VAC	1800	15.0	8.3	0.5	15	-40° to 158°F	2¾"	3"	3"	LC4521C	**6P006**	
208 to 277VAC	4155	15.0	8.3	0.5	15	-20° to 104°F	2¾"	3"	3"	LC4523	**13E067**	
Locking Plug Type with Built-In Time Delay												
120 to 277VAC	1000	15.0	15.0	1.5	6	-40° to 158°F	3¼"	3¼"	3¼"	LC2100	**52ZW32**	
Locking Plug Type with Lightning Arrestor, Instant On/Off												
120 to 277VAC	4155	15.0	8.3	0.5	15	-40° to 158°F	2¾"	3"	3"	LC4536LAC	**5U793**	
120VAC	1000	15.0	8.3	0.5	15	-40° to 158°F	2¾"	3"	3"	LC4521LA	**13E066**	
208 to 277VAC	4155	15.0	8.3	0.5	15	-20° to 104°F	2¾"	3"	3"	LC4523LA	**13E068**	
480VAC	7200	15.0	8.3	0.5	15	-20° to 104°F	2¾"	3"	3"	LC4535LA	**13E069**	
Wall Plate Mount												
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	4½"	2¾"	—	K4321C	**13E061**	
Wired-In, ½" Knockout Protrusion												
120VAC	1800	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	1 13⁄16"	1 5⁄16"	13⁄16"	K4021C	**6P005**	
208 to 277VAC	4150	15.0	8.3	1.0 to 5.0	3 to 15	-40° to 158°F	1 13⁄16"	1 5⁄16"	13⁄16"	K4023C	**5U791**	
Accessories												
Photo Control Receptacle Mount										K121	**13E053**	
Photo Control Receptacle with Bracket										K122	**13E055**	
Photo Control Receptacle with Wire Leads, For use with Locking Plug Type										K121-30	**13E054**	
Photo Control Shorting Cap										K4500	**13E062**	

**** Head also swivels and includes a light-level shield. † Die-cast housing.***



No. 483A24



No. 4JNP2



No. 4JNP7



No. 4JNP5



No. 4JNP9



No. 4JNR2



No. 4JNU5



No. 4JNR8

Photocontrols

TORK nsf

FIXED, DIE-CAST ALUMINUM
Specification-grade contactors feature heavy-duty housing and base; gasketed for max. weather protection. For parking lot and building perimeter lighting and controlling outdoor signage lighting.

LEXAN®
Material screens out ultraviolet rays for long service life.

Fixed- and Swivel-Mount—
Impact- and vandal-resistant. Ultrasonically welded for max. strength. For flood and patio lamps and decorative lighting.

Flush-Mount—Mount in a weatherproof junction box for post lanterns and lighting fixtures. No. 4JNR2 includes single gang cover plate and gasket.

TURN-LOCK
Heavy-duty enclosures use high-impact UV-stabilized polypropylene materials for long service life. Color coded for voltage designation. Positive snap-action relays reduce bounce and prolong contact life.

Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Color	Temp. Range	L	W	D	Mfr. Model	Item No.	
Flush/Box Mounting; Aluminum Housing Material													
120V AC	2,000	16.7	15.0	1.0 to 5.0	2.25	Silver	-40° to 140°	1 3⁄64 in	1 1⁄32 in	½ in	2119A	**483A24**	#
½ in Conduit, Fixed Mounting; Lexan(R) Housing Material													
120V AC	2,000	16.7	15.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	3 ½ in	1 ⅝	1 ⅝ in	2000	**4JNP2**	#
208 to 277V AC	4,620	16.7	10.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	3 ½ in	1 ⅝	1 ⅝ in	2000-2	**4JNP3**	#
½ in Conduit, 180° Swivel Mounting; Lexan(R) Housing Material													
120V AC	2,000	16.7	15.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ⅞ in	1 ⅝ in	1 ⅝ in	2021	**4JNP7**	#
208 to 277V AC	4,620	16.7	10.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ⅞ in	1 ⅝ in	1 ⅝ in	2022	**4JNP8**	#
120V AC	2,000	16.7	15.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ½ in	1 ⅝	1 ⅝ in	2001	**4JNP5**	#
208 to 277V AC	4,620	16.7	10.0	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ½ in	1 ⅝	1 ⅝ in	2002	**4JNP6**	#
480V AC	7,500	15.0	10.0	1.0 to 5.0	3 to 15	Tan	-40° to 140°F	3 ½ in	1 ¾ in	2 ½ in	2018	**23NX06**	
Flush/Box Mounting; Lexan(R) Housing Material													
120V AC	2,000	16.7	15.0	1.0 to 5.0	3 to 15	Black	-40° to 140°F	2 in	1 ⅛ in	1 45⁄64 in	3000	**4JNP9**	#
120V AC	2,000	16.7	15.0	1.0 to 5.0	3 to 15	Black	-40° to 140°F	4 ½ in	2 ¾ in	1 ⅝ in	3010	**4JNR2**	‡#
208 to 277V AC	4,620	16.7	10.0	1.0 to 5.0	3 to 15	Black	-40° to 140°F	2 in	1 in	1 ½ in	3002	**4JNR1**	#
Turn-Lock Mounting; Polycarbonate Housing Material													
105 to 305V AC	1,000	8.3	15.0	1.5	1.5	Blue	-40° to 158°F	3 3⁄16 in	3 3⁄16 in	2 in	5237-UL	**31EK23**	#
Turn-Lock Mounting; Polypropylene/Acrylic Housing Material													
105 to 130V AC	3,600	25.0	40.0	1.5	2.25	Beige/Gray	-40° to 158°F	8 15⁄16 in	5 ¼ in	4 ⅝ in	5403A	**4JNU5**	#
208 to 240V AC	3,600	14.4	40.0	1.5	2.25	Beige/Blue	-40° to 158°F	8 15⁄16 in	5 ¼ in	4 ⅝ in	5404A	**4JNU6**	#
Accessories													
Shorting Cap (Closes Primary Circuit), Turn Lock, Weatherproof											5500	**4JNR8**	
Photoelectric Control Receptacle, Turn Lock, 120-480V, Includes #14 Leads, Mounting Bracket and Screw											2224	**4JNV1**	
Photoelectric Control Receptacle, Turn Lock, 120-480V, Includes #12 Leads, Plastic Housing, Mounting Bracket and Locknut with ½" NPT											2421	**4JNV2**	

‡ Includes plate. # For use with LED lighting.

Photocontrols

Dayton

- Temp. range: -40° to 158 °F
- Built-in delay



Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Color	L	W	D	Item No.
Fixed, Polycarbonate										
120VAC	720	6.0	6.0	10.0 to 20.0	30 to 60	Translucent	1¾"	1¾"	1⅞"	**26WA97**
120 to 277VAC	1662	6.0	6.0	10.0 to 20.0	30 to 60	Translucent	1¾"	1¾"	1⅞"	**26WA98**
½" Conduit, Flush, Polycarbonate										
120VAC	1800	15.0	9.2	10.0 to 20.0	30 to 60	Gray	2⅞"	1⅓"	1⅓"	**26WA80**
120VAC	1800	15.0	9.2	10.0 to 20.0	30 to 60	Black	3 19/64"	1 19/64"	1 19/64"	**26WA90**
208 to 277VAC	1800	9.0	4.6	10.0 to 20.0	30 to 60	Gray	2⅞"	1⅓"	1⅓"	**26WA81**
208 to 277VAC	1800	6.5	4.0	10.0 to 20.0	30 to 60	Black	3⅜"	1⅓"	1⅓"	**26WA79**
½" Conduit, Flush, Die-Cast Aluminum										
120VAC	2000	16.7	16.7	10.0 to 20.0	30 to 60	Gray	3"	2"	1½"	**26WA77**
208 to 277VAC	2000	7.2	7.2	10.0 to 20.0	30 to 60	Gray	3"	2"	1½"	**26WA78**
⅜" Male Pipe Threaded, Polycarbonate										
120VAC	1800	15.0	9.2	10.0 to 20.0	30 to 60	Black	2⅛"	1⅝"	1⅛"	**26WA82**
120VAC	1800	15.0	9.2	10.0 to 20.0	30 to 60	Black/Gray	2⅛"	1⅜"	1⅛"	**26WA84**
208 to 277VAC	2000	7.5	7.5	10.0 to 20.0	30 to 60	Black	2⅛"	1⅝"	1⅛"	**26WA83**
½" Male Pipe Thread, Polycarbonate										
120VAC	1800	15.0	9.2	10.0 to 20.0	30 to 60	Gray	2⅜"	1⅜"	1⅜"	**26WA92**
120VAC	2000	16.7	16.7	10.0 to 20.0	30 to 60	Gray	3"	2"	1½"	**26WA93**
200 to 240VAC	1800	9.0	4.6	10.0 to 20.0	30 to 60	Black	3⅜"	1⅜"	1⅜"	**26WA91**
208 to 277VAC	2000	7.2	7.2	10.0 to 20.0	30 to 60	Gray	3"	2"	1½"	**26WA94**
Turn-Lock, Polycarbonate										
120VAC	1800	15.0	8.3	10.0 to 20.0	30 to 60	Gray	3⅜"	3⅜"	2⅜"	**26WA85**
120 to 277VAC	1000	8.3	15.0	10.0 to 20.0	30 to 60	Blue	3⅛"	3⅜"	2⅜"	**26WA96**
120 to 277VAC	1000	8.3	15.0	10.0 to 20.0	30 to 60	Blue	3⅜"	3⅜"	2⅜"	**26WA87**
480VAC	1800	15.0	15.0	10.0 to 20.0	30 to 60	Yellow	3⅜"	3⅜"	2⅜"	**26WA86**
Accessories										
Photo Control Shorting Cap										**26WA88**
Photo Control Receptacle with Bracket										**26WA89**
Photo Control Receptacle with Housing										**26WA99**



INTERMATIC

Electronic 24-Hr. and 7-Day Timers

- Steel enclosures
- Backup maintains program and time
- Enclosures have lock hasp
- Dim.: 7¾"L x 5"W x 3"D indoor; 9⅜"L x 5½"W x 3⅝"D outdoor
- Operating temp. range: -40° to 155°F

Easy programming with slide switches and push buttons. Manual override does not interfere with program. For HVAC equipment, indoor and outdoor lighting, and other energy-consuming equipment. UL Listed and CSA Certified.

No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	No. of Pulse Events	Pulse Duration	Enclosure	Mfr. Model	NEMA 1 Item No.	NEMA 3R Item No.
24 hr./365 Days Timers, Min. Time Setting: 1 min., Max. Time Setting: 24 hr.												
1	SPST	120 to 277VAC	30	1	2	96	0	—	Metal	ET2105C	**52RU32**	**52RU34**
1	SPST	120 to 277VAC	30	1	2	96	0	—	Plastic	ET2105CP	—	**52RU33**
1	SPDT	120 to 277VAC	20	1	2	96	0	—	Metal	ET2115C	**52RU35**	**52RU37**
1	SPDT	120 to 277VAC	20	1	2	96	0	—	Plastic	ET2115CP	—	**52RU36**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2125C	**52RU38**	**52RU40**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2125CP	—	**52RU39**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2145C	**52RU41**	**52RU43**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2145CP	—	**52RU42**
24 hr. Timers, Min. Time Setting: 1 min., Max. Time Setting: 24 hr.												
1	SPST-NO	120 to 277VAC	30	1	2	28	0	—	Plastic	EP100C	—	**30UJ96**
1	SPST	120/208 to 240/277VAC	30	1	2	14	0	—	Metal	ET1105C	**4XGV9**	—
2	SPST	120/208 to 240/277VAC	30	1	2	14	14	2 sec.	Metal	ET1125C	**6KFF6**	—
7/365 Days Timers, Min. Time Setting: 1 min., Max. Time Setting: 7 days												
1	SPST	120 to 277VAC	30	1	2	96	0	—	Metal	ET2705C	**52RU44**	**52RU46**
1	SPST	120 to 277VAC	30	1	2	96	0	—	Plastic	ET2705CP	—	**52RU45**
1	SPDT	120 to 277VAC	30	1	2	96	0	—	Metal	ET2715C	**52RU47**	**52RU49**
1	SPDT	120 to 277VAC	30	1	2	96	0	—	Plastic	ET2715CP	—	**52RU48**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2725C	**52RU50**	**52RU52**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2725CP	—	**52RU51**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2745C	**52RU53**	**52RU55**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2745CP	—	**52RU54**
7 Days Timers, Min. Time Setting: 1 min., Max. Time Setting: 7 days												
1	SPST	120/208 to 240/277VAC	30	1	2	14	0	—	Metal	ET1705C	**3FXA1**	—
2	SPST	120/208 to 240/277VAC	30	1	2	14	14	—	Metal	ET1725C	**3FXA2**	—
Astro 7/365 Days Timers, Min. Time Setting: 1 min., Max. Time Setting: 7 days												
1	SPST	120 to 277VAC	30	1	2	96	0	—	Metal	ET2805C	**52RU56**	**52RU58**
1	SPST	120 to 277VAC	30	1	2	96	0	—	Plastic	ET2805CP	—	**52RU57**
1	SPDT	120 to 277VAC	20	1	2	96	0	—	Metal	ET2815C	**52RU59**	**52RU61**
1	SPDT	120 to 277VAC	20	1	2	96	0	—	Plastic	ET2815CP	—	**52RU60**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2825C	**52RU62**	**52RU64**
2	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2825CP	—	**52RU63**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Metal	ET2845C	**52RU65**	**52RU67**
4	SPST	120 to 277VAC	30	1	2	96	48	2 sec.	Plastic	ET2845CP	—	**52RU66**

Astronomical Lighting Controls

INTERMATIC

- Backup maintains program and time
- Steel enclosures and polycarbonate where noted have lock hasp

Timers automatically adjust daily for changing sunrise and sunset times, eliminating the need for separate photocontrol devices.

ET8000 SERIES

- Enclosures have ½" to ¾" knockouts (1 on the back and each side, 2 on bottom)
- Operating temp. range: -40° to 155°F

Automatically switch loads according to the preset weekly schedule with to-the-minute accuracy. Manual override. Automatic sunrise and sunset settings allow flexibility for applications where load switching differs each day of the week. CSA Certified. UL Listed.

ET90000 SERIES

- Operating temp. range: -40° to 120°F

Permits up to 4000 scheduled On/Off operations; turns On/Off at sunrise or sunset without a photo control device. Provide to-the-second accuracy. Ethernet port allows remote programming via PC; standard on all timers with 4 or more channels and on 1- or 2-channel timer models Nos. 13D101, 13D103, 13D105, and 13D107. Copies programming to other time switches for backup purposes via USB cable. Built-in supercapacitor maintains program during power outages. CSA Certified. UL Listed.



No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	No. of Pulse Events	Pulse Duration	Backup Time	Mfr. Model	NEMA 1 Item No.	NEMA 3R Item No.
ET8000 Series, Astro 7 Days Timers, Min. Time Setting: 1 min., Max. Time Setting: 7 days												
1	SPST	120 to 277VAC	30	1	2	28	—	—	3 yr.	ET8015C	**1JLG2**	—
2	SPST	120 to 277VAC	30	1	2	28	28	2 sec.	3 yr.	ET8215C	**1JLG3**	—
ET90000 Series, Astro 365 Days Timers, Min. Time Setting: 1 sec., Max. Time Setting: 365 days												
1	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90115C	**13D099**	**13D102**
1	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90115CE	**13D101** *	**13D103** *
2	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90215C	**13D104**	**13D106**
2	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90215CE	**13D105** *	**13D107** *
4	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90415C	—	**13E029** *
8	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET90815C	—	**13E030** *
12	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET91215C	—	**13E032** *
16	SPDT	120 to 277VAC	30	NO: 1, NC: ¼	NC: ½, NO: 2	4000	4000	1 sec. to 24 hr.	100 hr.	ET91615C	—	**13E031** *
ET90000 Accessories												
Door Assembly with Electronics											**13E033**	—
Ethernet Module											**13E034**	—
Relay Module											**13E035**	—

** Includes Ethernet module.*




No. 4JNE4


No. 31A067


No. 4JNG8

TORK nsi

Electronic Timers

Digital programmable switches provide precise control. All feature capacitor power outage backup, permanent schedule retention, and locking hasp. All are UL Listed and C-UL Listed or CSA Certified. Meet Calif. Title 24 energy efficiency standards unless noted.

No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	Min. Time Setting	Max. Time Setting	No. of Pulse Events	Pulse Duration	Operation Mode	Enclosure	Backup Time	Mfr. Model	Item No.
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	24 hr	—	—	24 hr	Plastic	100 hr	E101B	**4JNE4** *
1	DPST	120 to 277V AC	40 A	1	2	20	1 min	24 hr	—	—	24 hr	Plastic	100 hr	E103B	**4JNE5** *
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	7 day	—	—	7 Days	Plastic	100 hr	EW101B	**4JNE7**
1	DPST	120 to 277V AC	40 A	1	2	20	1 min	7 day	—	—	7 Days	Plastic	100 hr	EW103B	**4JNE8**
1	SPST	120V AC	30 A	1	2	10	1 min	24 hr	20	—	24 hr	Plastic	100 hr	E101PB	**4JNF1** *
1	DPDT	120 to 277V AC	20 A	1	2	28	1 min	24 hr	56	1 sec to 24 hr	7 Days	Plastic	7 day	DGS100A	**31A067**
Advance Holiday Scheduling															
1	DPDT	120/208 to 240/277V AC	20 A	1	2	99 Astronomic, Offset 240 Min.	1 min	0.0192 day	99	—	Astro 365 Days	Plastic	7 day	DWZ100B	**4JNH3**
Universal Input, Accepts Photocell or Dry Contact Input															
1	DPDT	120 to 277V AC	20 A	1	2	28	1 min	0.0192 day	56	—	7 Days	Metal	7 day	DGU100A-Y	**31A069**
1	SPDT Momentary	120 to 277V AC	20 A	1	2	28	1 min	0.0192 day	56	—	7 Days	Plastic	7 day	DGUM100A	**31A070**
Includes Photocell, 2 Circuits: 1 for Photocontrolled Only, 1 for Time/Photocontrol															
2	SPDT	120 to 277V AC	20 A	1	2	28	1 min	7 day	56	—	Astro	Plastic	7 day	DGLC200A-NC	**31A071**
Astronomic Option															
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	24 hr / 7 day	—	—	Astro 7 Days	Plastic	100 hr	EWZ101	**4JNF4**
1	SPDT	120 to 277V AC	30 A	1	2	20	1 min	24 hr / 7 day	—	—	Astro 7 Days	Plastic	100 hr	EWZ120	**4JNF6**
2	SPDT	120 to 277V AC	20 A	1	2	49	1 min	7 day	99	—	365 Days	Plastic	7 day	DWZ200B	**45EJ73**
Memory Module Supplied for Easy Copy and Transfer of Schedules Between DZS Series, Astronomic Option															
1	DPDT	120/208 to 240/277V AC	30 A	1	2	99 Astronomic, Offset 240 min	1 min	365 day	99	1 to 99 sec	Astro 365 Days	Plastic	7 day	DZS100BP	**4JNG8**
2	SPDT	120/208 to 240/277V AC	30 A	1	2	99 Astronomic, Offset 240 min.	1 min	365 day	99	1 to 99 sec	Astro 365 Days	Plastic	7 day	DZS200BP	**4JNG9**
4	SPDT	120/208 to 240/277V AC	20 A	1	2	99 Astronomic, Offset 240 min.	1 min	365 day	99	1 to 99 sec	Astro 365 Days	Plastic	7 day	DZS400BP	**4JNH1**
Memory Module Supplied for Easy Copy and Transfer of Schedules Between DZM200BP Units, Single & Seasonal Scheduling, Astronomic Option															
2	SPDT	120/208 to 240/277V AC	20 A	—	—	99 Astronomic, Offset 240 min.	1 min	365 day	—	Momentary	Astro	Plastic	7 day	DZM200BP	**4JNH5**
Accessories															
Photocell, 180° Swivel, For Use With TORK Series DGU100A and DGUM100A Timers, ½" Conduit Hub Mount, 4⅛" L														EPC-A	**31A072**
Photocell, 180° Swivel, For Use With DGU and DGLC Series, ½" Conduit Hub Mount, 3¾" L														EPC1	**4JNG5**

**** Does not meet CA Title 24.***


No. 30YJ34

24-Hr. Electromechanical Timers

TORK nsi

Switches provide automatic On/Off control when operation is required at the same time every day. Also feature manual override. Suitable for lighting, pumps, signs, air conditioning, water heaters, and fans.

Voltage	No. of Poles	Contact Form	Encl. Type	NEMA Rating	Amps	Day Skipper	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	H	W	D	Mfr. Model	Item No.
120VAC	1	SPST-NO	Steel	1	40	No	20 min.	22 hr. 45 min.	12	7 15/16"	4 1/16"	2 5/16"	1101B	**30YJ34**
120VAC	2	DPST-NO	Steel	1	40	No	20 min.	22 hr. 45 min.	12	7 15/16"	4 1/16"	2 5/16"	1103B	**30YJ38**
208 to 277VAC	2	DPST-NO	Steel	1	40	No	20 min.	22 hr. 45 min.	12	7 15/16"	4 1/16"	2 5/16"	1104B	**30YJ40**
480VAC	1	SPDT-NO/NC	Steel	1	20	No	15 min.	23 hr. 45 min.	48	6 1/4"	5"	3¾"	8001U	**30YJ52**

Surface/DIN Rail Mount
No. 20XF48




Flush Mount
No. 20XF84

Surface/DIN Rail or Flush Mount Time Switches

INTERMATIC

- 21A SPDT contacts
- Captive trippers
- True clock face
- Clear plastic dust cover

These switches are designed to be mounted inside a control panel and can accommodate surface/DIN Rail or flush/panel mounting. Ideal for single-phase applications like lighting control, HVACR, pumps, motors, fan controls, access controls, OEM applications, agricultural facilities, and general purpose electrical circuits.

Description/ Special Features	Min. Time Setting	Max. Time Setting	H	W	D	24VAC Mfr. Model	24VAC Item No.	120VAC Mfr. Model	120VAC Item No.	208/240VAC Mfr. Model	208/240VAC Item No.
24-Hour, Flush Mount											
Synchronous Motor, Override Switch	15 min.	23 hr. 45 min.	3 5/64"	3 5/16"	2 5/16"	MIL72ESTUZH-24	**20XF68**	MIL72ESTUZH-120	**20XF67**	MIL72ESTUZH-240	**20XF69**
Synchronous Motor	15 min.	23 hr. 45 min.	3 5/64"	3 5/16"	2 5/16"	MIL72ESTUZ-24	**20XF65**	MIL72ESTUZ-120	**20XF64**	MIL72ESTUZ-240	**20XF66**
Quartz Motor, Battery Backup, Override Switch	15 min.	23 hr. 45 min.	3 5/64"	3 5/16"	2 5/16"	MIL72EQTUZH-24	**20XF63** *	MIL72EQTUZH-120	**20XF62**	—	—
Quartz Motor, Battery Backup	15 min.	23 hr. 45 min.	3 5/64"	3 5/16"	2 5/16"	MIL72EQTUZ-24	**20XF60** *	MIL72EQTUZ-120	**20XF59**	MIL72EQTUZ-240	**20XF61**
24-Hour, Surface/DIN Rail Mount											
Synchronous Motor, Override Switch	15 min.	23 hr. 45 min.	4 19/32"	3 5/16"	3 5/16"	MIL72ASTUZH-24	**20XF56**	MIL72ASTUZH-120	**20XF55**	MIL72ASTUZH-240	**20XF57**
Synchronous Motor	15 min.	23 hr. 45 min.	4 19/32"	3 5/16"	3 5/16"	MIL72ASTUZ-24	**20XF53**	MIL72ASTUZ-120	**20XF52**	MIL72ASTUZ-240	**20XF54**
Quartz Motor, Battery Backup, Override Switch	15 min.	23 hr. 45 min.	4 5/64"	3 5/16"	3 5/16"	MIL72AQTUZH-24	**20XF51** *	MIL72AQTUZH-120	**20XF50**	—	—
Quartz Motor, Battery Backup	15 min.	23 hr. 45 min.	4 5/64"	3 5/16"	3 5/16"	—	—	MIL72AQTUZ-120	**20XF48**	MIL72AQTUZ-240	**20XF49**
7-Day, Flush Mount											
Synchronous Motor, Override Switch	2 hr.	6 days 22 hr.	3 5/64"	3 5/16"	2 5/16"	—	—	MIL72ESWUZH-120	**20XF87**	MIL72ESWUZH-240	**20XF89**
Synchronous Motor	2 hr.	6 days 22 hr.	3 5/64"	3 5/16"	2 5/16"	MIL72ESWUZ-24	**20XF86**	MIL72ESWUZ-120	**20XF85**	—	—
Quartz Motor, Battery Backup, Override Switch	2 hr.	6 days 22 hr.	3 5/64"	3 5/16"	2 5/16"	MIL72EQWUZH-24	**20XF83** *	MIL72EQWUZH-120	**20XF82**	MIL72EQWUZH-240	**20XF84**
Quartz Motor, Battery Backup	2 hr.	6 days 22 hr.	3 5/64"	3 5/16"	2 5/16"	—	—	MIL72EQWUZ-120	**20XF81**	—	—
7-Day, Surface/DIN Rail Mount											
Synchronous Motor, Override Switch	2 hr.	6 days 22 hr.	4 19/32"	3 5/16"	3 5/16"	MIL72ASWUZH-24	**20XF79**	MIL72ASWUZH-120	**20XF78**	MIL72ASWUZH-240	**20XF80**
Synchronous Motor	2 hr.	6 days 22 hr.	4 19/32"	3 5/16"	3 5/16"	MIL72ASWUZ-24	**20XF76**	MIL72ASWUZ-120	**20XF75**	MIL72ASWUZ-240	**20XF77**
Quartz Motor, Battery Backup, Override Switch	2 hr.	6 days 22 hr.	4 19/32"	3 5/16"	3 5/16"	MIL72AQWUZH-24	**20XF73** *	MIL72AQWUZH-120	**20XF72**	MIL72AQWUZH-240	**20XF74**
Quartz Motor, Battery Backup	2 hr.	6 days 22 hr.	4 19/32"	3 5/16"	3 5/16"	—	—	MIL72AQWUZ-120	**20XF71**	—	—

**** Rated 12 to 24VAC/DC.***

INTERMATIC®

24-Hour and 7-Day Electromechanical Timers

- Heavy-duty clutchless gears prevent slipping
- Contacts are tungsten-rated to handle inrush currents 10 times their rating

Enclosures feature lock hasp and knockouts. Snap-out timing mechanism with manual On/Off override does not interfere with program. Day skipper adds the flexibility of omitting any day or days from the program. Self-lubricating, synchronous motors. Outdoor enclosures are rated NEMA 3R.

Note: Timers include trippers. Extra trippers are available on this page.



1-Pole Steel Indoor No. 2E021



2-Pole Steel Outdoor No. 2E259



2-Pole Plastic Outdoor No. 4E025



Multioperation 1-Pole Steel Indoor No. 2E026

MULTIOPERATION

- Operating temp. range: -40° to 130°F

Provide up to 48 On/Off settings per day with 96 permanently fixed trippers.

7-DAY

Allow precise time-of-day scheduling with 7-day dial. Timers allow different settings for each day of the week.

Voltage	No. of Poles	Contact Form	Encl. Type	NEMA Rating	Amps	Day Skipper	Min. Time Setting	Max. Time Setting	Extra Trippers	H	W	D	Mfr. Model	Item No.
24-Hour														
120VAC	1	SPST-NO	Steel	1	40	No	1 hr.	23 hr.	2E054	7 3/16"	5"	3"	T101	**2E021**
120VAC	1	SPST-NO	Plastic	3R	40	No	1 hr.	23 hr.	2E054	9 7/16"	5 1/2"	3 13/16"	T101P	**4E023**
120VAC	1	SPST-NO	Steel	1	40	Yes	1 hr.	23 hr.	11Z965	7 3/16"	5"	3"	T171	**2E024**
120VAC	1	SPST-NO	Steel	3R	40	No	1 hr.	23 hr.	2E054	9 7/16"	5 1/2"	3 5/8"	T101R	**2E258**
120VAC	2	DPST-NO	Steel	1	40	No	1 hr.	23 hr.	2E054	7 3/16"	5"	3"	T103	**2E022**
120VAC	2	DPST-NO	Plastic	3R	40	No	1 hr.	23 hr.	2E054	9 7/16"	5 1/2"	3 13/16"	T103P	**4E024**
120VAC	2	DPST-NO	Steel	1	40	Yes	1 hr.	23 hr.	11Z965	7 3/16"	5"	3"	T173	**6X759**
120VAC	2	DPST-NO	Steel	3R	40	Yes	1 hr.	20 hr.	11Z965	9 3/8"	5 1/2"	3 5/8"	T173R	**3FWY7**
120VAC	4	4PST-NO	Steel	3R	40	Yes	1 hr.	23 hr.	11Z965	9 7/16"	5 1/2"	3 5/8"	T1471BR	**6X766**
120VAC	1	SPDT	Steel	1	40	No	1 hr.	23 hr.	Mfr. No. 156T1978A	8 19/32"	5 1/2"	3 1/2"	T105	**20XE73**
120VAC	1	SPST	Polycarbonate	3R	40	No	1 hr.	23 hr.	Mfr. No. 156T1978A	11 1/2"	7 1/8"	4"	T101PCD82	**20XE81**
120VAC	2	DPST	Polycarbonate	3R	40	No	1 hr.	23 hr.	Mfr. No. 156T1978A	11 1/2"	7 1/8"	4"	T103PCD82	**20XE82**
125VAC	2	DPST-NO	Steel	3R	40	No	1 hr.	23 hr.	2E054	7 3/4"	5"	3"	T103R	**3FWY6**
208 to 277VAC	1	SPST-NO	Steel	1	40	No	1 hr.	24 hr.	2E054	7 3/4"	5"	3"	T102	**4XGW7**
208 to 277VAC	2	DPST-NO	Steel	1	40	No	1 hr.	23 hr.	2E054	7 3/16"	5"	3"	T104	**2E351**
208 to 277VAC	2	DPST-NO	Steel	3R	40	No	1 hr.	23 hr.	2E054	9 7/16"	5 1/2"	3 5/8"	T104R	**2E259**
208 to 277VAC	2	DPST-NO	Plastic	3R	40	No	1 hr.	23 hr.	2E054	9 7/16"	5 1/2"	3 13/16"	T104P	**4E025**
208 to 277VAC	2	DPST-NO	Steel	1	40	Yes	1 hr.	23 hr.	11Z965	7 3/16"	5"	3"	T174	**6X760**
208 to 277VAC	2	DPST-NO	Steel	3R	40	Yes	1 hr.	20 hr.	11Z965	9 3/8"	5 1/2"	3 5/8"	T174R	**3FWY8**
208 to 277VAC	4	4PST-NO	Steel	3R	40	Yes	1 hr.	23 hr.	11Z965	9 7/16"	5 1/2"	3 5/8"	T1472BR	**4A214**
208 to 277VAC	2	SPDT	Steel	3R	40	No	1 hr.	23 hr.	Mfr. No. 156T1978A	10 3/32"	6 5/8"	4"	T106R	**20XE74**
208 to 277VAC	2	DPST	Polycarbonate	3R	40	No	1 hr.	23 hr.	Mfr. No. 156T1978A	11 1/2"	7 1/8"	4"	T104PCD82	**20XE83**
24-Hour, Multioperation														
120 to 277VAC	2	DPDT-2NO/2NC	Plastic	3R	40	No	15 min.	23 3/4 hr.	—	8 13/16"	6 5/8"	2 1/8"	GM40AV	**6KFG3**
120VAC	1	SPDT	Steel	1	20	No	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1905	**2E026**
120VAC	1	SPDT	Steel	1	20	Yes	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1975	**6X761**
120VAC	1	SPDT	Steel	3R	20	Yes	15 min.	23 3/4 hr.	—	9 7/16"	5 1/2"	3"	T1975R	**4WZ27**
208 to 277VAC	1	SPDT	Steel	1	20	No	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1906	**2E389**
208 to 277VAC	1	SPDT	Steel	1	20	Yes	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1976	**6X762**
208 to 277VAC	1	SPDT	Steel	3R	20	Yes	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1976R	**4XGW8**
480VAC	1	SPDT	Steel	1	20	No	15 min.	23 3/4 hr.	2E132	7 3/4"	5"	3"	T1905E	**2A512**
7-Day														
120VAC	1	SPDT	Steel	1	20	No	2 hr.	22 hr.	2E132	7 3/4"	5"	3"	T2005	**2A210**
125VAC	4	4PST-NO	Steel	1	40	Yes	3.5 hr.	21 hr.	11Z966	12 1/2"	8 1/4"	4"	T7401B	**2A208**
125VAC	4	DPDT	Steel	1	40	Yes	3.5 hr.	21 hr.	11Z966	12 1/2"	8 1/4"	4"	T7801B	**2E214**
7-Day with Spring Wound Carry-Over (Maintains Time Setting Up to 16 hr. During Power Outages)														
120VAC	4	4PST-NO	Steel	1	40	Yes	3.5 hr.	21 hr.	11Z966	12 1/2"	8 1/4"	4"	T7401BC	**2A209**
120VAC	4	DPDT	Steel	1	40	Yes	3.5 hr.	21 hr.	11Z966	12 1/2"	8 1/4"	4"	T7801BC	**6X757**

INTERMATIC®

TORK® nsi

Timer Replacement Parts



No. 2E054



No. 2E055



No. 2E132



No. 30YJ54



No. 1PNJ8



No. 2E354

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Replacement/Extra Trippers				
1 Pair On/Off, For Use With Intermatic Series T51401B, T51401BC, WH-40, T30404R, T7401B, T103, T101R, T104R, T104, T104R201 to T101M, T1472BR, T103P to T104P201, T10404R to 89026-08-2 Timers	Intermatic	156T1961A	**2E054**	1
For Use With Intermatic T185 Series Timers	Intermatic	156T1960A	**2E055**	1
For Use With 2A206, 2A512, 2E026, 2E130, 2E131, 2E355 to 2E357, 2E389, 2E408, 6X757, 6X761, 6X762	Intermatic	156T2978A	**2E132**	12
For Use With Intermatic Series T170, T1400, T1800 Timers	Intermatic	156T1948A	**11Z965**	1
For Use With Intermatic Series T7400, T7800, T51000 Timers	Intermatic	156T2548A	**11Z966**	7
For Use With TORK Series 1100 and 7000 Timers	Tork	P47	**30YJ54**	1
Replacement Motors				
120VAC, For Use With Intermatic T1900, T8800, and R8800 Series Timers	Intermatic	WG730	**1PNJ8**	1
120VAC, For Use With Intermatic T100, T170, T180, T100R201, T100R301, WH30, and WH40 Series Timers	Intermatic	WG1570	**1PNK1**	1
208 to 277VAC, Tolerance of Plus/Minus 10%, For Use With Intermatic T100, T170, T180, T100R201, T100R301, WH30, and WH40 Series Timers	Intermatic	WG1573	**1PNK2**	1
208/240/277VAC, For Use With Intermatic T1900, T8800, and R8800 Series Timers	Intermatic	WG733	**1PNJ9**	1
120VAC, For Use With TORK Series 1100 and 7000 Timers	Tork	101	**30YJ55**	1
208 to 277VAC, For Use With TORK Series 1100 and 7000 Timers	Tork	201	**30YJ56**	1
Timer Mechanisms				
Time Switches, for Replacement or Specialized Applications; SPST-NO, 125, For Use With Nos. 2E021, 2E258, 4E023	Intermatic	T101M	**2E354**	1
Time Switches, for Replacement or Specialized Applications, DPST-NO, 125, For Use With Nos. 2E022, 4E024	Intermatic	T103M	**4A213**	1
Time Switches, for Replacement or Specialized Applications; DPST-NO, 250, For Use With Nos. 2E351, 2E259, 4E025	Intermatic	T104M	**2E353**	1


No. 6X769


No. 1A573


No. 4WZ08

Water Heater Timers

- Enclosures have lock hasp
- Electronic models feature LED and battery backup

Automatically turn off water heater at designated times. UL Listed and CSA Certified.

No. of Poles	Contact Form	Voltage	Amps	HP @ 240V	Encl. Type	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	No. of Trippers Incl.	H	W	D	Brand	Mfr. Model	Item No.
Electromechanical															
2	DPST	208 to 240VAC	40	5	Steel	60 min.	23½ hr.	12	2	7¾"	5"	3"	Intermatic	T104-20	**6X769**
2	DPST	208 to 240VAC	40	5	Steel	60 min.	23½ hr.	12	2	7¾"	5"	3"	Intermatic	WH-40	**1A573**
2	DPST-NO	208 to 277VAC	40	5	Steel	20 min.	22 hr.	12	2	7 15/16"	4 11/16"	2 15/16"	Tork	WH2B	**30YJ44**
Electronic															
1	SPST	120VAC	30	—	Metal	1 min.	24 hr.	12	—	7¾"	5"	3"	Intermatic	EH10	**20XE67**
2	DPST	240VAC	30	1½	Metal	1 min.	7 days	42	—	7¾"	5"	3"	Intermatic	EH40	**4WZ08**


No. 1A850


No. 4E026

Swimming Pool Timers

24-hr. time switch.

MECHANICAL

Note: Extra tripper No. 2E054 is available separately; see page 417.

Timing/Control Panel and Timing Center
- Outdoor NEMA 3R steel enclosures with lock hasp
- Dim.: No. 1A850, 16½"L x 10⅞"W x 4½"D; No. 6X767, 10¾"L x 12"W x 4½"D

Timing/Heating Circuit Centers
- Outdoor NEMA 3R enclosures with lock hasp; steel Nos. 6X768, plastic No. 4E026
- Dim.: No. 6X768, 10¾"L x 12"W x 4½"D; Nos. 4E026, 9⅜"L x 5½"W x 3⅝"D

DIGITAL

- Outdoor NEMA 3R metal enclosure
- SPST contacts
- Dim.: 9⅜"L x 2"W x 2 3/16"D

Description	No. of Poles	Contact Form	Contact HP @ 240V	Amps	Voltage	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	Mfr. Model	Item No.
Mechanical										
Timing/Control Panel	2	DPST-NO	5	30	240VAC	1 hr.	23 hr.	12	T30404R	**1A850**
Timing Center	2	DPST-NO	5	40	208 to 277VAC	1 hr.	23 hr.	12	T10404R	**6X767**
Dual Timing/Heating Circuit Center	2	DPST-NO	5	40	208 to 277VAC	1 hr.	23 hr.	12	T12404R	**6X768**
Timing/Heating Circuit Center	2	DPST-NO	5	40	208 to 277VAC	1 hr.	23 hr.	12	T104P201	**4E026**
Digital										
3 Program (Pump/Heating/Lighting)	3	SPST	—	20	120/240VAC	1 min.	24 hr.	3	PE153	**3FWY5**



Irrigation/Sprinkler Timer

- Raintight plastic NEMA 3R enclosure with lock hasp
- Combination of ½" to ¾" knockouts

Max. 60 daily cycles. 14-day skipper feature omits irrigation/sprinkling on selected days and also permits every-other-day operation. Includes 34 trippers.

Note: Extra tripper No. 2E132 is available separately, see page 417.

No. of Poles	Contact Form	Input Voltage	Encl. Type	Day Skipper	Inductive Contact Rating (A)	HP	Min. Time Setting	Max. Time Setting	Max. Time Cycle	Max. On/Off Cycles	H	W	D	Mfr. Model	Item No.
2	DPST-NO	208 to 277	Steel	Yes	25A @ 277VAC	2	12 min.	23¾ hr.	14 Days	30	9⅜"	5½"	3⅝"	R8806R108C	**2A206**



No. 485R29


Intermatic
No. 6KFG5



Tork
No. 10G855

Cycle Timers

TORK®

60 captive tabs per dial provides up to 30 On/Off cycles.

PERCENTAGE CYCLE TIMERS

Tork®—Can alternately cycle 2 different loads. 2 control knobs set cycle repeat time and percentage operating time. Each knob has Hold setting for manual On/Off. Sealed for use in severe environments. UL Listed and CSA Certified.
- More than 900 jumperless cycle variations
- LED load status indicators

Intermatic®—Can be wired in series with a manual switch or time switch for time-of-day cycling applications. CSA Certified.
- 8 selectable total cycle durations: 30 sec.; 1, 3, 5, 10, 30 min.; and 1, 4 hr.
- Cycling pattern selectable from 3% to 97% of total cycle

Min. Time Setting	Max. Time Setting	Input Voltage	Amps	No. of Poles	HP @ 120V	Contact Form	NEMA Rating	Brand	Mfr. Model	Item No.
Cycle Timer										
1 min.	59 min.	120VAC	20	1	¾	SPDT	1	Tork	8601	**30YJ51**
Percentage Cycle Timer										
15 min.	23 hr. 45 min.	120VAC	20	1	¾	SPDT	3R	Tork	8001-N	**173M77**
15 sec.	24 hr.	120/240VAC	20	1	1	SPDT	4X	Tork	EJWT	**10G855**
0.03 sec.	30 sec.	—	10	1	¼	SPNO	1	Macromatic	PTA2030S	**485R31**
0.03 sec.	30 sec.	—	10	1	¼	SPNO	1	Macromatic	PTA2030SB	**485R32**
0.06 sec.	1 min.	—	10	1	¼	SPNO	1	Macromatic	PTA2001M	**485R29**
0.06 sec.	1 min.	—	10	1	¼	SPNO	1	Macromatic	PTA2001MB	**485R30**
1 sec.	3 hr. 52 min.	120/240VAC	20	1	1	SPST	3R	Intermatic	CT2000	**6KFG5**
75 sec.	24 hr.	120VAC	16	2	—	SPDT	1	Intermatic	TALENTO121-120	**242K95**


No. 6X765


No. 20XE91


No. 20XE96


No. 45EM03


No. 20XE97


No. 3FWY9


No. 20XE68


No. 20XE69


No. 3FWZ4

INTERMATIC® TORK® nsi

Wall Switch Timers

Compact timers replace standard wall switches. Include manual On/Off override. UL Listed and CSA Certified.

Description	Switch Type	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Color	Max. On/Off Cycles	Brand	Mfr. Model	Item No.
Electromechanical											
4 Trippers Included	1-Pole	120VAC	15	1800	30 min.	23 hr., 30 min.	White	12	Intermatic	E1020C	**6X765**
—	1-Pole	120VAC	15	1800	30 min.	23 hr., 30 min.	White	1	Intermatic	E1010	**20XE91**
—	1-Pole	120VAC	20	2500	20 min.	23 hr., 45 min.	White	36	Intermatic	KM2ST-1G	**20XE96**
Vacation Mode, Gangable, Includes Wall Plate	1-Pole	120VAC	20	1500	30 min.	24 hr.	White	24	Tork	701B	**45EM03**
—	3-Way	120VAC	20	2500	20 min.	23 hr., 45 min.	White	36	Intermatic	KM2STU-1G	**20XE97**
Electronic											
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120VAC	15	1800	1 min.	7 days	Ivory	14	Intermatic	EI500C	**3FWY9**
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120VAC	15	1800	1 min.	7 days	White	14	Intermatic	EI500WC	**3FWZ1**
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120VAC	15	1800	1 min.	7 days	Light Almond	14	Intermatic	EI500LAC	**3FWZ2**
Astronomic, Auto DST, Neutral Wire Required, Lithium Battery Backup	3-Way	120VAC	12	1800	1 min.	6 Days, 23 hr., 59 min.	White	7	Intermatic	EJ600	**20XE68**
Lithium Battery Backup	3-Way	120/277VAC	15	1800	1 min.	6 Days, 23 hr., 59 min.	White	40	Intermatic	ST01	**20XE69**
Decorator, Astronomic Setting, Auto Daylight Savings, 36-hr. Battery Backup	3-Way	120/277VAC	20	1800/4155	1 min.	7 days	White	40	Intermatic	EI600WC	**3FWZ4**
Decorator, Astronomic Setting, Auto Daylight Savings, 36-hr. Battery Backup	3-Way	120/277VAC	20	1800/4155	1 min.	7 days	Light Almond	40	Intermatic	EI600LAC	**3FWZ5**



No. 1JLF9


No. 4XGV7

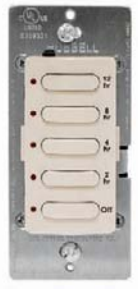

No. 4JNK2


No. 23NX05



No. 3FWZ6


No. 4YPF9


No. 29RW82

Wall Switch Countdown Timers

Compact timers replace standard wall switches.
UL Listed and CSA Certified.

HUBBELL® Wiring Device-Kellems · INTERMATIC® · LUTRON® · TORK® nsi

Description	Switch Type	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Brand	WHITE Item No.	IVORY Item No.	ALMOND Item No.	LIGHT ALMOND Item No.
LED Time Left Indicator	1-Pole	120/277VAC	8.30	1000/1400	2 hr.	12 hr.	Hubbell	**29RW83**	**29RW81**	—	**29RW82**
LED Time Left Indicator	1-Pole	120/277VAC	8.30	1000/1400	5 min.	30 min.	Hubbell	**29RW87**	**29RW84**	—	**29RW85**
LED Time Left Indicator	1-Pole	120/277VAC	8.30	1000/1400	15 min.	60 min.	Hubbell	**29RW90**	**29RW88**	—	**29RW89**
LCD Display, Visual and Audible Warning Option	3-Way	120/277VAC	8.30	960/1200	5 min.	4 hr.	Hubbell	**29RW80**	—	—	—
Off, Hold, 10-20-30-60 min., Neutral Wire Required	1-Pole	120VAC	15	1800	10 min.	60 min.	Intermatic	**1JLF9**	—	**1JLG1**	—
Decorator, Auto Shutoff	1-Pole	120VAC	15	1800	60 min.	8 hr.	Intermatic	**3FWZ7**	**3FWZ6**	—	—
Off, Hold, 5-10-15-30 min., Neutral Wire Required	1-Pole	120VAC	15	1800	5 min.	30 min.	Intermatic	**1JLF7**	—	**1JLF8**	—
Decorator, Audible/Visual Load Pre-Off Signal, 3-Yr. Battery Backup	3-Way	120/277VAC	20	1800/4155	1 sec.	24 hr.	Intermatic	**4XGV7**	**4XGV5**	—	**4XGV6**
Maestro, No Neutral Required	1-Pole	120VAC	5 (3A Fan Load)	600	5 min.	60 min.	Lutron	**4YPG3**	**4YPF9**	—	—
Maestro Eco-Timer, No Neutral Required	1-Pole	120VAC	5 (3A Fan Load)	600	1 min.	30 min.	Lutron	**4YPG5**	**4YPG4**	—	—
Maestro, Neutral Required	Multi-Location	120VAC	5 (3A Fan Load)	600	5 min.	60 min.	Lutron	**4YPG2**	**4YPG1**	—	—
No Neutral Required	1-Pole	24/277VAC	7.25	12/150	1 min.	18 hr.	Tork	**4JNK2**	—	—	—
Flicker Warning Before Time Out, No Neutral Required	1-Pole	24/277VAC	7.25	12/150	1 min.	18 hr.	Tork	**4JNK3**	—	—	—
Auto-Off, No Neutral Required	3-Way	120/277VAC	16	380/4400	5 min.	24 hr.	Tork	**23NX05**	—	—	—

INTERMATIC

Spring-Wound Mechanical Timers

- 20A inductive/7A tungsten 1 HP at 125V, 10A 2 HP at 250V, 10A at 277V

Models with Hold feature have option for continuous On. Timing mechanism has all-metal gears. Timers mount in min. 2" x 4" single-gang outlet box. Ivory and white timers require standard toggle or decorator style wall plates; see page 328.



No. 6X546



No. 1XC25

Timing Range	SILVER WALL PLATE W/WHITE KNOB SPST No Hold Item No.	SPST With Hold Item No.	SPDT No Hold Item No.	SPDT With Hold Item No.	DPST No Hold Item No.	IVORY (WALL PLATE REQUIRED) SPST No Hold Item No.	SPST With Hold Item No.	SPDT No Hold Item No.	DPST No Hold Item No.	WHITE (WALL PLATE REQUIRED) SPST No Hold Item No.	SPST With Hold Item No.	SPDT No Hold Item No.	DPST No Hold Item No.
0 to 5 min.	6X545	4A217	—	—	—	4WZ17	—	—	—	38D055	—	—	—
0 to 15 min.	2E269	3FXA3	3FXA4	—	3FXA5	1XC25	—	—	3FXC9	38D056	38D057	—	—
0 to 30 min.	2E175	3FXA6	3FXA7	—	3FXA8	1XC26	20XE93	—	4WZ15	38D058	38D059	—	38D071
0 to 60 min.	6X546	2E270	3FXA9	—	3FXC1	1XC27	4WZ18	4WZ14	4WZ16	38D060	38D061	—	38D072
0 to 2 hr.	3FXC2	—	3FXC3	—	—	—	—	4WZ13	—	38D062	—	38D068	—
0 to 4 hr.	3FXC4	—	3FXC5	—	—	—	—	—	—	38D063	—	—	—
0 to 6 hr.	4A218	—	—	—	—	—	—	—	—	38D064	38D065	—	38D073
0 to 12 hr.	2E052	6X547	3FXC6	3FXC7	3FXC8	—	—	—	—	38D066	38D067	—	—



No. 20XE85



No. 30C513



No. 45MW10



No. 20XE90



No. 45MW07



No. 20XE87



No. 45MW06



No. 45KM66

INTERMATIC TORK nsi

Plug-In Timers

Features	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	Receptacle Type	Color	Brand	Mfr. Model	Item No.
Indoor, Mechanical											
Manual Override	120VAC	20	2500	30 min.	23 hr., 30 min.	2	5-20R	White	Intermatic	HB113	**20XE85**
Manual Override	120VAC	15	1750	30 min.	23 hr., 30 min.	3	5-15R	White	Intermatic	TN311	**20XE87**
Multiple On/Off Setting, Designed with Captive Tabs, Polarized Outlet Receptacle	125VAC	15	1875	15 min.	24 hr.	48	1-15R	White	Tork	401A	**483A20**
Manual Override	240VAC	15	3750	30 min.	23 hr., 30 min.	2	6-15R	White	Intermatic	HB112	**20XE84**
Manual Override	240VAC	20	5000	30 min.	23 hr., 30 min.	2	6-20R	White	Intermatic	HB114	**20XE86**
Indoor, Digital											
Astronomic Function, Automatic DST Adjustment, Random Mode, Manual Override, Battery Back-Up, Works With CFLs and LED Lamps	120VAC	15	1000	1 min.	7 days	20	(2) 5-15R	White	Tork	457Z	**30C513**
Astronomic Setting, Random On/Off Setting, Auto Daylight Saving Time Adjustment	120VAC	15	1000	1 min.	6 days, 23 hr., 59 min.	14	(2) 5-15R	White	Intermatic	DT620	**20XE89**
Automatically Turn On/Off Items In The Home, Control Lamps, Radios, Televisions and Appliances	120VAC	—	500	30 min.	23 hr., 30 min.	24	5-15R	White	Tork	402B	**45MW06**
7 Day Programming, Manual Daylight Savings, Battery Backup	120VAC	—	1000	1 min.	23 hr., 59 min.	24	Polarized	White	Tork	460E	**45MW10**
7 Day Programming, Manual Daylight Savings, Battery Backup	125VAC	15	1800	1 min.	7 days	20	(2) 5-15R	White	Tork	455E	**45KM66**
Indoor/Outdoor, Mechanical											
—	120VAC	—	500	30 min.	23 hr., 30 min.	24	5-15R	Black	Tork	602B	**45MW09**
Indoor/Outdoor, Digital											
Astronomic Setting, Random On/Off Setting, Auto Daylight Saving Time Adjustment, Battery Backup	120VAC	15	1000	1 min.	7 Days	14	(2) 5-15R	Black	Intermatic	HB880R	**20XE90**
Automatically Turn On/Off Outdoor Lighting and Saves Energy By Switching Off Lights At Night.	120VAC	—	1000	1 min.	23 hr., 59 min.	24	5-15R	Black	Tork	642E	**45MW07**
Indoor/Outdoor											
Wireless Control	125VAC	10	1250	60 min.	9 hr.	2	5-15R	Black	Tork	6702A	**615T94**
Outdoor, Mechanical											
Manual Override, Suitable for Outdoor Use In A 3R Enclosure	120VAC	9.5	1185	30 min.	23 hr., 30 min.	2	1-15R	Black	Intermatic	TN111RM40	**20XE88**
Outdoor											
—	120VAC	15	1000			—		Black	Intermatic	DT200LT	**710N36**
On/Off Settings Per Day with Removable Trippers, More On/Off Events with Addition of Extra Trippers, Built Into Outdoor Rated Enclosure with Clear or Black Flip Cover, Grounded Standard or Locking Type Style NEMA Plug, Receptacle, Plugs Directly Into Wall Outlet	120VAC	15	1800	30 min.	24 hr.	2		Black	Intermatic	P1121	**710N37**
On/Off Settings Per Day with Removable Trippers, More On/Off Events with Addition of Extra Trippers, Built Into Outdoor Rated Enclosure with Clear or Black Flip Cover, Grounded Standard or Locking Type Style NEMA Plug, Receptacle, Plugs Directly Into Wall Outlet	120VAC	20	2400	30 min.	24 hr.	2		Black	Intermatic	P1131	**710N38**
Light Activated	125VAC	15	1000	60 min.	9 hr.	2	5-15R	Black	Tork	654E	**105H21**

BORG GENERAL CONTROLS

24-Hr. and 7-Day Electromechanical Modules

Reliable modules for panel-mount installations. 24-hr. timers have up to 48 On/Off settings per day; 7-day timers have 42 On/Off settings per week, 6 settings per day. 2½"-dia. dial opening required to mount module through panel.



No. 2A517



No. 2A520

No. of Poles	Contact Form	Voltage	Amps	Contact HP @ 120V	Min. Time Setting	Max. Time Setting	H	W	D	Mfr. Model	Item No.
Synchronous Motors											
1	SPST-NO	120VAC	20	½	15 min.	23½ hr.	2⅜"	2⅜"	1¼"	TA-4150	**2A517**
1	SPST-NO	120VAC	20	½	2 hr.	6 days 20 hr.	2⅜"	2⅜"	1¼"	TA-4151	**2A518**
Quartz Motors with 150 Hr. NiCd Battery Backup											
1	SPST-NO	120VAC	20	½	15 min.	23½ hr.	2⅜"	2⅜"	1¼"	TA-4152	**2A519**
1	SPST	120VAC	20	½	2 hr.	6 days 20 hr.	2⅜"	2⅜"	1¼"	TA-4153	**2A520**

BORG GENERAL CONTROLS

Digital Interval Countdown Timer

- SPST contact configuration
- Input voltage: 120VAC
- Contact load rating: 15A at 120V

Dependable timer for use with medical equipment, commercial cooking appliances, pools and spas, and exercise equipment. Includes repeat memory, interlock connection, large easy-to-read display, and optional time-of-day display. Timing range: 0 to 99 hr., 59 min.; 1-sec. time intervals from 0 to 99 sec. and 0 to 99 min.; 1-min. intervals from 0 to 99 hr., 59 min. UL Listed, CSA and CE Certified.



No. 6PY50



No. 4WX97

Item	Mfr. Model	Item No.
Cound Down Timer	TA4180A	**6PY50**
Face Plate	49150-00	**4WX97**

INTERMATIC®

Timer Modules

- ½ HP, 120VAC
- 12A ballast, 120VAC
- 16A, 277VAC resistive
- Min. time setting: 1 min.
- Max. time setting: 6 days, 23 hr., 59 min.

Provide 24-hr. or 7-day scheduling on any electrical load with HVACR equipment. Also for use in lighting, security, circulating pump, and spa applications.



No. 4CCA4



No. 4CCA3

No. of Channels	Max. On/Off Cycles	H	W	D	Mfr. Model	24VAC Item No.	120VAC Item No.	240VAC Item No.	12VAC/DC Item No.
Mechanism Only									
1	20	3"	3"	2"	FM1D20	**4CCA4**	**4CCA7**	**4CCC1**	—
1	50	3"	3"	2"	FM1D50	**4CCC7**	**4CCD1**	**4CCD4**	—
2	50	4⅜"	2¾"	2¼"	FM2D50	**4CCD6**	**4CCD5**	**4CCD7**	—
Flush Mount									
1	20	2¾"	2¾"	2¼"	FM1D20E	**4CCA2**	**4CCA5**	**4CCA8**	—
1	50	2¾"	2¾"	2¼"	FM1D50E	**4CCC5**	**4CCC8**	**4CCD2**	**4CCC2**
Surface/DIN Rail Mount									
1	20	4"	2¾"	2"	FM1D20A	**4CCA3**	**4CCA6**	**4CCA9**	—
1	50	4"	2¾"	2"	FM1D50A	**4CCC6**	**4CCC9**	**4CCD3**	—



No. 14H247



No. 14H248



No. 32J136



No. 14H252

Electronic Timers

OMRON® Autonics Sensors & Controllers

- Battery backup protects memory
- Adjustable cycle mode
- 120-240VAC
- 15A at 250VAC (except No. 32J135 is 10A)

Easy-to-use timers allow each circuit to be independently programmed. Manual override.

No. of Channels	Contact Form	Max. On/Off Cycles	Min. Time Setting	Max. Time Setting	No. of Pulse Events	Pulse Duration	Operation Mode	Backup Time	Brand	PANEL MOUNT Item No.	TRACK/ SURFACE MOUNT Item No.
2	(2) SPST-NO	12	1 min.	24 hr.	—	—	7 Days	10 yr.	Omron	**14H247** *	—
1	SPST-NO	12	1 min.	7 days	24	1 sec. to 60 min.	7 Days	5 yr.	Omron	**14H253**	**14H252**
2	(2) SPST-NO	20	1 min.	7 days	40	1 sec. to 60 min.	7 Days	5 yr.	Omron	**14H248**	**14H249**
2	(2) SPST-NO	24	1 min.	365 days	48	1 sec. to 60 min.	365 Days	5 yr.	Omron	**14H250**	**14H251**
2	(2) SPDT-NO	48 Weekly, 24 Yearly	1 min.	7/365 Days	48	1 sec. to 60 min.	365 Days	5 yr.	Autonics	**32J135** *	—
1	SPST-NO	48 Weekly, 24 Yearly	1 min.	7/365 Days	24	1 sec. to 60 min.	365 Days	5 yr.	Autonics	**32J136** *	—

** Also track mountable.*



Contractor Select™ Low Profile



Indura® Series



Indura Series, NEMA 4X



Quantum Series



Titan® Series



Wall/Ceiling-Mount Series



Wet Location Series

Emergency Lighting Units

- Provide 90 min. illumination upon loss of AC power

CONTRACTOR SELECT™ LOW-PROFILE

Lights are designed with small, unobtrusive dual-heads, making these units ideal for wall- or ceiling-mounting in small spaces at lower mounting heights. Features a test switch and status indicator. Approved for use in damp locations. No. 487V39 has additional battery capacity to power 1-watt of remote lamp load for 90 min.

INDURA® SERIES

Vertical design minimizes pole- or column-mount overhang; also suitable for wall, I-beam, unistrut, or ceiling and pendant mounting. Quick-Beam™ installation with steel mounting bracket. Thermal protection and compensation prevent overheating and charger failure.

Indura® Series NEMA 4X—Harsh-environment fixtures have a sealed housing with silicon gasket to withstand rain, sleet, snow, splashing, hose-directed water, and windblown dust.

QUANTUM SERIES

Corrosionproof, UV-stable housing is impact- and scratch-resistant. Removable knockouts and universal J-box pattern on back panel, and flexible conduit entry points on top, help simplify installation. Wall- or ceiling-mount. Multichromatic LED indicator displays charging, test activation, and diagnostic status.

TITAN® SERIES

Feature a test switch and ready/charge light for monitoring system operation.

WALL/CEILING-MOUNT SERIES

Installed square unit has a clean, finished appearance. Surface mounting, J-box mounting pattern. Push-to-test lens conceals test switch and ready light.

WET LOCATION SERIES

Compact, low-profile housing is made from engineering-grade UV-stable thermoplastic that is impact-resistant, scratch-resistant and corrosionproof. A full-perimeter gasket seal between front and rear housing helps seal out moisture. Wall-mount with external mounting tabs for easy installation, while two 7/8" knockouts on each side permit flexible conduit entry only. UL Listed for Wet Locations.

Watts @ 90 Min.	Lamp Watts	Voltage	No. of Lamp Heads	Lighting Technology	Output Voltage	Temp. Range	Housing,	Optional Remote Head	Optional Guard	W	L	H	Item No.	
Contractor Select™ Low Profile														
UL 924, NFPA 101, NFPA 70, California Energy Commission Title 20 section 1605.3, FCC, OSHA														
2	0.7	120/277	2	LED	3.6VDC	10° to 40°C	Plastic, White	No	4YFV2	2¾"	7⅞"	4½"	**487V38**	
	1.5	120/277	2	LED	3.6VDC	10° to 40°C	Plastic, White	No	4YFV2	2¾"	7⅞"	4½"	**487V39**	
UL Listed. Meets UL 924, NFPA 101, NFPA 70-NEC, California Energy Commission Title 20 Section 1605.3 (W)(4), FCC and OSHA Illumination Standards.														
3.6	2.0	120/277	2	LED	3.6VDC	50° to104° F	Plastic, White	No	4YFV2	2¼"	10"	4¼"	**13M588**	
Indura Series														
UL Damp Location Listed, NFPA 101, NFPA 70, NOM, California Energy Commission Title 20 Section 1605.3, FCC														
8.3	6.6	120/347	2	LED	9.6VDC	0° to 50°C	Plastic, Gray	No	—	6⅝"	9¾"	13¾₆₄"	**54ZU70**	*
	6.6	120/347	2	LED	9.6VDC	0° to 50°C	Plastic, Gray	No	—	6⅝"	9¾"	13¾₆₄"	**54ZU71**	*
	6.6	120/347	2	LED	12.8VDC	0° to 50°C	Plastic, Gray	No	—	6⅝"	9¾"	13¾₆₄"	**54ZU72**	*
Indura Series, NEMA 4X														
UL Wet Location Listed, NEMA 4X, NFPA 101, NFPA 70, NOM, NSF, California Energy Commission Title 20 Section 1605.3, FCC														
8.3	6.6	120 to 347	2	LED	9.6VDC	0° to 50°C	Plastic, Gray	No	—	6²⁷⁄₆₄"	10²⁷⁄₆₄"	13¹⁵⁄₁₆"	**54ZU68**	*
	6.6	120/347	2	LED	9.6VDC	0° to 50°C	Plastic, Gray	No	—	6²⁷⁄₆₄"	10²⁷⁄₆₄"	13¹⁵⁄₁₆"	**54ZU69**	*
Quantum Series														
UL Damp Location Listed, UL 924, NFPA 101, NFPA 70, NOM, California Energy Commission Title 20 Section 1605.3, FCC, OSHA														
4.8	2.4	120/277	2	LED	6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⅞₄"	9²³⁄₃₂"	4¹¹⁄₁₆"	**483U30**	
	2.4	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⅞₄"	9²³⁄₃₂"	4¹¹⁄₁₆"	**483U31**	*
	2.4	120/277	2	LED	6VDC	10° to 40°C	Plastic, Black	No	4YFV2	3⅞₄"	9²³⁄₃₂"	4¹¹⁄₁₆"	**483U33**	
	2.4	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⅞₄"	9²³⁄₃₂"	4¹¹⁄₁₆"	**483U34**	
	2.4	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, Black	No	No	3⅞₄"	9²³⁄₃₂"	4¹¹⁄₁₆"	**483U32**	*
	2.4	120/277	2	LED	6VDC	10° to 40°C	Plastic, White	No	No	3⅞₄"	9⅞₂"	4¹¹⁄₁₆"	**483U39**	
	2.4	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	No	3⅞₄"	9⅞₂"	4¹¹⁄₁₆"	**483U40**	*
11	6.6	120/277	2	LED	6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⁴⁵⁄₆₄"	13⅜"	5¹⁵⁄₁₆"	**483U35**	
	10.6	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⁴⁵⁄₆₄"	13⅜"	5¹⁵⁄₁₆"	**483U36**	*
22	10.6	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⁴⁵⁄₆₄"	13⅜"	5¹⁵⁄₁₆"	**483U37**	*
32	10.6	120/347	2	LED	9.6VDC	10° to 40°C	Plastic, White	No	4YFV2	3⁴⁵⁄₆₄"	13⅜"	5¹⁵⁄₁₆"	**483U38**	*
Titan Series														
Chicago and New York Approved, OSHA Illumination Standards, NFPA 101-1988 (Current Life Safety Code), NEC, UL 924, UL Listed														
32	12.0	120/277	2	Halogen	6VDC	—	Steel, Beige	3EU33	4PG68	2½"	13⅛"	11⅝"	**1BP67**	
36	12.0	120/277	2	Halogen	12VDC	—	Steel, Beige	4PG72	4PG68	2½"	13⅛"	11⅝"	**1BP69**	
Chicago Approved, OSHA Illumination Standards, NFPA 101-1988 (Current Life Safety Code), NEC, UL 924, UL Listed														
24	8.0	120/277	2	Halogen	6VDC	—	Steel, Tan	3EU33	4PG68	4¾"	11⅝"	7⅞"	**3EU39**	
New York City Compliant, UL 924 Listed														
18	9.0	120/277	2	Incandescent	6VDC	—	Steel, White	No	4PG64	3"	10"	14½"	**2XLG1**	
27	9.0	120/277	3	Incandescent	6VDC	—	Steel, White	No	4PG64	4½"	15"	15½"	**2XLG2**	
50	12.0	120/277	3	Incandescent	12VDC	—	Steel, White	4PG72	4PG64	4½"	15"	15½"	**2XLG3**	
UL924, NFPA 101, NEC/OSHA Illumination														
24	12.0	120/277	2	Halogen	6VDC	60° to 90°F	Steel, Beige	No	No	4¾"	11⅝"	14"	**490P87**	
36	12.0	120/277	2	Halogen	6VDC	60° to 90°F	Steel, Beige	No	No	4¾"	11⅝"	14"	**490P90**	
50	12.0	120/277	2	Halogen	12VDC	60° to 90°F	Steel, Beige	No	No	4¾"	11⅝"	14"	**490P91**	
Wall/Ceiling-Mount Series														
UL 924, UL Listed														
10	10.0	120/277	1	Halogen	6VDC	16 to 32°C	Plastic, White	No	—	3½"	10⅜"	10⅜"	**4PG73**	
Wet Location Series														
7.5	2.7	120/277	2	LED	9.6	32 to 122°F	Plastic, Gray	6NCZ6	4PG68	10"	13"	13½"	**46C221**	
14	6.2	120/277	2	Halogen	6	68 to 122°F	Plastic, Gray	No	4PG68	4¼"	14⅞"	5⅝"	**46C220**	
14.4	10.0	120/277	2	Incandescent	6	41 to 122°F	Plastic, Gray	No	4PG68	11½"	14"	13½"	**46C222**	

** Self-diagnostic.*

No. of Lamps	Voltage	Lamp Watts	Housing Material	Housing Color	W	L	H	Mfr. Model	Item No.
Remote Heads									
LED									
1	3.6	0.7	Plastic	White	2 3/64"	5 1/2"	4 29/32"	ERE W SGL RD M24	**487V44**
1	5 to 12	3.0	Plastic	White	2 3/4"	7 3/8"	4 5/8"	ELA W SGL LT24 LP03VS	**46ML12**
1	6 to 12	5.5	Plastic	White	4 5/8"	7 3/8"	2 3/4"	ELA W SGL LT24 LP06VS	**49JM86**
1	9.6	1.5	Plastic	White	2 3/8"	6 3/8"	4 7/10"	ELA Q L0309 M12	**6NCZ3**
2	120/277	1.5	Plastic	White	2 3/64"	5 1/2"	4 29/32"	ERE W T RD M24	**487V45**
2	6 to 12	5.1	Plastic	White	4 5/8"	7 1/8"	2 3/4"	ELA W T LT24 LP05VS	**49JM87**
2	6 to 12	5.5	Plastic	White	4 5/8"	7 1/8"	2 3/4"	ELA W T LT24 LP06VS	**49JM88**
2	9.6	1.5	Plastic	White	2 1/2"	7 3/8"	4 1/2"	ELA T Q L0309 M12	**6NCZ5**
Halogen									
1	12	12.0	Plastic	White	5 1/16"	4 3/4"	6 5/8"	ELA W H1212	**3EU32**
Wet Location Remote Heads									
LED									
1	120/277	1.0	Plastic	Gray	2 1/4"	4 1/4"	6 5/8"	ERE GY SGL WP SQ M12	**487V46**
1	9.6	1.5	Aluminum	Gray	2 9/10"	4 1/2"	6"	ELA QWP L0309 M12	**6NCZ7**
2	9.6	3.0	Aluminum	Gray	2 3/5"	6 1/2"	5 3/4"	ELA T QWP L0309 M12	**6NCZ9**
Halogen									
1	6	6.0	Plastic	Gray	5 7/8"	5 7/16"	7 3/4"	ELA NX H0606	**2XLE8**
1	6	8.0	Plastic	Gray	5 1/16"	4 3/4"	7 3/4"	ELA NX H0806	**2XLE9**


No. 487V44


No. 49JM87


No. 3EU32


No. 2XLE8

Emergency Light Remote Heads

LITHONIA LIGHTING

Use with compatible battery equipment (sold separately) as part of a full emergency lighting system, to provide brownout protection and light for paths of egress.

Emergency Lighting Drivers

LITHONIA LIGHTING PHILIPS bodine

- Provide at least 90 min. emergency lighting
- 120/277VAC input


No. 460J99


No. 454R53


No. 454R56

Power Sentry®—Compact, low-profile ballasts are compatible with a variety of LED fixtures, including troffers, volumetric recessed, industrial, commercial and strip. With integrated self-diagnostics to help prevent failure. Can be installed at the factory or in the field. UL Listed. Meet UL 924, NFPA 101, NEC, and OSHA illumination standards. CA Title 20 compliant.

- Temp. range: 41° to 122°F

Bodine—Smart charger technology monitors output to help ensure low energy consumption; switches to emergency mode to provide power when AC power fails. Designed with a high-temperature nickel-cadmium battery, charger, and electronic circuitry in one case. UL Listed. RoHS Compliant.

- Temp. range: 32°F to 131°F; except No. 454R56 is 32° to 122°F

Battery Type	Lamp Watts	Lamp Type	Initial Lumens*	W	L	H	Mfr. Model	Item No.
Acuity Brands Power Sentry®								
UL Listed, NFPA101, NEC, OSHA, UL924, CA Title 20 Compliant, UL1310 Certified								
Lithium Iron Phosphate	10.0	LED	1250	1 3/16"	21 1/2"	1 3/16"	PS1555LCP M18	**460J94**
	10.0	LED	1250	1 3/16"	16 3/4"	1 3/16"	PS1055LCP M18	**460J95**
	10.0	LED	1250	2 11/32"	10 5/8"	1 3/16"	PS1055CP M10	**460J96**
	10.0	LED	1250	2 11/32"	10 5/8"	1 3/16"	PS1055CP FMC M10	**460J97**
	10.0	LED	1250	2 11/32"	14 37/64"	1 3/16"	PS1555CP M10	**460J98**
	10.0	LED	1250	2 11/32"	14 37/64"	1 3/16"	PS1555CP FMC M10	**460J99**
Bodine								
cULus Listed								
Nickel Cadmium	4.0	LED	Up to 1300	2 1/4"	14 1/2"	1 3/16"	BSL310	**454R53**
	4.0	LED	Up to 1300	2 1/4"	15 11/32"	1 3/16"	BSL310M	**454R54**
	4.0	LED	Up to 1300	2 1/4"	15 11/32"	1 3/16"	BSL310C	**454R55**
	4.0	LED	Up to 975	2 3/8"	12"	1 1/2	BSL17C-C2 Type 1	**454R56**

** Actual lumen output will vary based on fixture/lamp type and ambient temperature.*

Fluorescent Backup Lighting Systems

FULHAM LITHONIA LIGHTING PHILIPS bodine

- Provide at least 90 min. emergency lighting
- 120/277VAC input
- High-temperature nickel-cadmium batteries (except No. 12X237)

Ballast Battery Packs, Ballasts, and Generator Transfer Device allow existing fluorescent lighting to provide emergency lighting upon loss of normal power.

FULHAM® FIREHORSE™

- Temp. range: 32° to 131°F
- Recharge time: 24 hr.

Low-profile ballasts can be mounted in the factory or in the field and are compatible a variety of switched and unswitched fluorescent lamps. Also work with TLEDs; check lamp manufacturer specifications for compatibility. Include LED push-button indicator.

LITHONIA LIGHTING®

Ballast Battery Packs—Compatible with electronic, magnetic, instant-start, rapid-start, and slimline ballasts. Work with switched or unswitched fluorescent fixtures and compact fluorescent downlights. Include pilot light and test switches. Quick Disconnect system allows for easy installation and maintenance.

- Temp. range: 32° to 100°F

PHILIPS BODINE

UL LISTED.

No. 12X237, Generator Transfer Device—Device switches the lighting load to a generator-fed circuit in response to a power loss. Connected fixture illuminates regardless of light switch position.

Emergency Ballasts—Work in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. No. 34E653 is self-testing.

- Temp. range: 32° to 122°F
- Recharge time: 24 hr.

Item	Lamp Watts	Lamp Type	Initial Lumens*	W	L	H	Mfr. Model	Item No.
Fulham								
Emergency Fluorescent Ballast	14 to 96	Fluorescent	750	1 1/8 in	9 3/8 in	1 1/8 in	FH11-UNV-750L-CEC	**454U42**
	14 to 96	Fluorescent	1400	1 1/4 in	14 37/64 in	1 1/4 in	FH12-UNV-1400L-CEC	**454U44**
	18 to 42	Fluorescent	500	1 1/2 in	9 37/64 in	1 1/2 in	FH7-UNV-500L-CEC	**454U43**
Lithonia Lighting								
Emergency Fluorescent Ballast	10.0	T5, T8, T9, T12, T12HO, Twin-Tube, Triple-Tube, Quad-Tube	1250	2 3/16 in	13 5/16 in	1 3/16 in	PS1400QD MVOLT PSBCEB2	**460K01**
	14 to 215	T5, T8, T9, T12, T12HO, Twin-Tube, Triple-Tube, Quad-Tube	1450 to 3500	5 3/8 in	15 3/8 in	2 in	PS3000 M3	**33L664**
	80	Biax, T5, T5HO, T8, T8HO, T12	1100 to 1400	2 3/16 in	13 5/16 in	1 3/16 in	PS1400QD MVOLT M8	**5YA46**
Fluorescent Battery Pack	40	T8, T12	450 to 550	2 1/2 in	9 1/2 in	1 3/16 in	PSQ500QD MVOLT M12	**5YA44**
	40	T8, T12	500	2 1/2 in	9 3/8 in	1 in	EI500 M12	**2XLE7**
	75	Biax, T5, T5HO, T8, T8HO, T12	600 to 700	2 3/16 in	9 1/2 in	1 3/16 in	PS600QD MVOLT M12	**5YA45**
Bodine								
Emergency Fluorescent Ballast	8.5 to 215	2D, 4-Pin, Bi-Pin, Mini Bi-Pin, Single-Tube, T5, T5HO, T8, T9, T10, T12	900 to 3500	2 13/16 in	16 5/8 in	2 7/8 in	B30	**12X241**
	13 to 42	4-Pin Long Compact, Twin-Tube, Triple-Tube, Quad-Tube, T5 Circline	Up to 925	2 7/16 in	9 3/8 in	1 1/2 in	B4CF2PC	**499L41**
	13 to 42	T5, Twin-Tube, Triple-Tube, Quad-Tube	1250	1 3/16 in	10 in	1 1/2 in	B4CF2	**12X239**
	13 to 215	4-Pin CFL, Biax, T5, T5HO, T8, T9, T10, T12	Up to 1600	2 1/4 in	13 5/16 in	1 3/16 in	B50	**12X231**
	14 to 55	4-Pin Long Compact, T5, T5HO, T8, T8HO	600 to 1325	2 7/16 in	21 1/2 in	1 3/16 in	LP600	**12X242**
	18 to 42	4-Pin Compact	300 to 750	2 7/16 in	9 3/8 in	1 1/2 in	B94CGU	**34E652**
	21 to 55	Biax, T5, T5HO, T8, T8HO	390 to 700	2 7/16 in	18 1/2 in	1 3/16 in	LP550	**12X236**
	32 to 40	T8, T10, T12	350 to 450	2 7/16 in	9 3/8 in	1 1/2 in	B100	**12X228**
	32 to 40	T8, T12	500 to 600	2 7/16 in	9 3/8 in	1 1/2 in	B90	**12X229**
	32 to 215	4-Pin Long Compact, T8, T10, T12	600 to 700	2 7/16 in	9 3/8 in	1 1/2 in	B60	**12X240**
	32 to 215	T8, T12	600 to 700	2 7/16 in	9 3/8 in	1 1/2 in	B70A	**12X230**
	32 to 215	T8, T9, T10, T12	300 to 700	2 7/16 in	9 3/8 in	1 3/16 in	BDL60U	**12X235**
Generator Transfer Device	—	Fluorescent, LED	—	1 3/16 in	8 in	1 3/16 in	GTD	**12X237**
Self-Testing Fluorescent Emergency Ballast	14 to 55	4-Pin Long Compact, T5, T5HO, T8, T8HO	600 to 1325	1 3/16 in	21 1/2 in	1 3/16 in	LP600STU	**40MA57**
	17 to 215	T8, T9, T10, T12	Up to 1400	2 7/16 in	13 3/8 in	1 1/2 in	B50ST	**34E653**

** Actual lumen output will vary based on fixture/lamp type and ambient temperature.*



No. 5YA44


No. 454U43



No. 12X228



No. 19L031



No. 40CP81



No. 40CP80

Emergency Lighting Units

- 120/277VAC
- Adjustable 2 lamp heads

Emergency lighting sources feature a test switch and charge rate indicator.

LED

For indoor use only.

INCANDESCENT

Low-voltage battery disconnect helps prevent deep discharge battery damage, except for Nos. 40CP81, 40CP80, 40CP79, and 40CP76. No. 40CP80 comes with a cord.

Watts @ 90 Min.	Lamp Watts	Output Voltage	Housing Material	Housing Color	Mounting	W	L	H	Item No.
LED									
UL listed. Meets UL 924, NFPA 101, NFPA 70-NEC									
5	2.5	6VDC	Plastic	White	Ceiling/Wall	3⅛"	13⅝"	4⅛"	**19L031**
Incandescent									
UL 924, Wet Location Listed									
10.8	5.4	6VDC	Plastic	White	Wall	5¼"	11"	13"	**40CP81**
UL 924									
	5.4	6VDC	Plastic	White	Ceiling/Wall	12⅛"	5½"	4"	**6CGL0**
	5.4	6VDC	Plastic	White	Ceiling/Wall	11 3⁄16"	2 1⁄16"	5"	**6CGL2**
10.8	5.4	6VDC	Plastic	White	Ceiling/Wall	5⅜"	8⅛"	8⅛"	**40CP79**
	5.4	6VDC	Plastic	White	Ceiling/Wall	4¾"	7¼"	7½"	**40CP80**
	5.4	6VDC	Plastic	White	Ceiling/Wall	4 7⁄16"	16½"	5"	**40CP76**



No. 46T222



No. 458T15



No. 32WU53



No. 3UVY5



No. 3UVZ1



No. 46T224

Emergency Lighting Units

- Feature adjustable heads

Incandescent units have an LED status indicator and push-to-test feature to help assure the lights' readiness for loss of power.

Lighting Technology	Watts @ 90 Min.	Lamp Watts	Output Voltage	No. of Lamp Heads	Housing Material	Housing Color	Mounting	Battery Chemistry	W	L	H	Item No.
Hubbell Lighting - Compass												
UL924, Damp Location, NFPA 101, NFPA 70, IC Rated												
LED	4	1.0	4.8VDC	0	Plastic	White	Ceiling	Alkaline, Nickel-Metal Hydride	8"	6¼"	2⅝"	**458T16**
	4	1.0	4.8VDC	0	Plastic	White	Ceiling	Alkaline, Nickel-Metal Hydride	8"	6¼"	2⅝"	**458T17**
UL924, NFPA 101, NFPA 70, OSHA, CEC T20 Compliance												
LED	4	1.0	3VDC	2	Plastic	White	Ceiling/Wall	Nickel Cadmium	10"	3"	4¾"	**46T223**
	2	1.0	3VDC	2	Plastic	White	Ceiling/Wall	Nickel Cadmium	2¾"	9"	4"	**46T222**
UL924, UL Wet Location Listed												
LED	1.2	1.2	3.6VDC	2	Plastic	White	Ceiling/Wall	Nickel Cadmium	13¼"	5⅜"	5¾"	**458T15**
UL 924 Damp Location Listed, NFPA101, NFPA70, OSHA												
LED	1.8	0.7	3.6VDC	2	Plastic	White	Ceiling/Wall	Nickel Cadmium	4½"	12½"	4"	**488U55**
UL 924 WET LOC/NFPA 70 and 101, OSHA												
LED	3.75	1.9	9.6VDC	2	Plastic	Gray	Wall	Nickel Cadmium	8"	12⅛"	8"	**32WU53**
UL 924 Wet Location Listed, NFPA101, NFPA70, OSHA												
LED	3.6	1.4	3.6VDC	2	Plastic	White	Ceiling/Wall	Nickel Cadmium	2¾"	9"	4"	**488U54**
Hubbell Lighting - Dual-Lite												
NFPA-101, UL 924, UL Damp Location Listed												
Incandescent	10.8	5.4	6VDC	2	Plastic	White	Wall/Universal	Sealed Lead Calcium	4⅞"	16 9⁄16"	5 3⁄16"	**16U257**
NFPA-101, UL 924, UL Damp Location Listed, NYC Approved												
Incandescent	—	7.2	6VDC	2	Steel	White	Universal	Lead Calcium	3⅞"	13½"	11½"	**3UVY1**
	—	7.2	6VDC	2	Steel	White	Universal	Lead Calcium	3⅞"	13½"	11½"	**3UVY5**
NFPA-101, UL 924 Listed												
Incandescent	10.8	5.4	6VDC	2	Plastic	White	Wall/Universal	Lead Calcium	4⅞"	16 9⁄16"	5 3⁄16"	**3UVZ1**
	10.8	5.4	6VDC	2	Plastic	White	Wall/Universal	Sealed Lead Calcium	4⅞"	16 9⁄16"	5 3⁄16"	**16U256**
UL924												
LED	2	1.0	3.25VDC	2	Plastic	White	Ceiling/Wall	Nickel-Metal Hydride	2¼"	8½"	5"	**46T224**
Incandescent	14	7.2	6VDC	2	Plastic	White	Wall/Universal	Sealed Lead Calcium	4⅞"	16 9⁄16"	5 3⁄16"	**16U255**
UL 924 Damp/NFPA 70 and 101												
	2	2.0	1.2VDC	2	Plastic	White	Ceiling/Wall	Nickel-Metal Hydride	2¼"	8½"	5"	**32WU36**
	2	2.0	1.2VDC	2	Plastic	White	Ceiling/Wall	Nickel-Metal Hydride	2¼"	8½"	5"	**32WU37**
LED	4	2.0	1.2VDC	2	Plastic	White	Ceiling/Wall	Nickel-Metal Hydride	2¼"	8½"	5"	**32WU38**
	4	4.0	1.2VDC	2	Plastic	White	Ceiling/Wall	Nickel-Metal Hydride	2¼"	8½"	5"	**32WU41**
	12	3.0	3.2VDC	2	Plastic	White	Ceiling/Wall	Lithium Iron Phosphate	11"	7½"	3¼"	**32WU44**



No. 3GPC9



No. 3GPD1

LED Outdoor Emergency Lighting

- 75 CRI
- 120 to 277VAC
- Rated avg. life: 50, 000 hr.

Fully gasketed die-cast enclosures withstand outdoor wet-location installations.

Lamp Watts	Housing Color	L	H	W	Mfr. Model	WITHOUT HEATER Operating Temp. Range	WITHOUT HEATER Item No.	WITH HEATER Operating Temp. Range	WITH HEATER Item No.
Spectron® Self Testing/Self Diagnostic Electronics									
NFPA 101 (Life Safety Code), NFPA 70 (National Electrical Code), UL 924 Listed, UL Wet Location Listed, U.S. Patent Nos. 8,258,705									
2.8	White	11"	7"	3 3⁄16"	PGW	0 to 50°C	**3GPC9**	-30 to 50°C	**3GPD4**
2.8	Brown	11"	7"	3 3⁄16"	PGZ	0 to 50°C	**3GPD1**	-30 to 50°C	**3GPD5**
2.8	Silver	11"	7"	3 3⁄16"	PGP	—	—	-30 to 50°C	**3GPD6**



No. 6CGL5



No. 35GW98



No. 6CGL7



No. 40CP83

LumaPro

Exit Signs

- 120/277VAC
- 6"H letters with ¾" stroke; except No. 40CP83 has 8"H letters
- Field-settable chevron direction

Universal mounting (top/end/back on Exit Signs with Battery Backup, top/back on Exit Signs with Emergency Lights) provides installation choices, except No. 40CP83 is wall-mount only. Test switch and ready/lamp change indicators help keep signs prepared for emergencies.



No. 40CP82



No. 40CP85



No. 40CP86



No. 489K12



No. 35GX01

Lamp Type	No. of Faces	Housing Color	Housing Material	Battery Chemistry	Operating Temp. Range	D	W	H	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Exit Sign												
UL to UL 924 Standard, NFPA Life Safety Code 101												
LED	1 or 2	White	Plastic	Nickel Cadmium	—	1 13/16"	11 13/16"	7¼"	0.4	6CGL5	0.6	6CGL6
	1 or 2	Gray	Aluminum	Nickel Cadmium	—	1¾"	12 13/16"	8½"	0.4	6CGN0	0.6	6CGL9
UL to UL 924 Standard												
LED	1	White	Plastic	—	32° to 122°F	2¾"	12¼"	10⅛"	2	35GW98	—	—
Exit Sign with Emergency Lights												
UL to UL 924 Standard, NFPA Life Safety Code 101												
Incandescent	1 or 2	White	Plastic	Lead Acid	—	4⅝"	21⅝"	10⅛"	5.4	6CGL7	—	—
	1 or 2	White	Plastic	Lead Calcium	—	4⅝"	21⅝"	10⅛"	—	—	5.4	6CGL8
UL to UL 924 Standard												
LED	1	White	Plastic	—	—	2¾"	12¼"	10⅛"	—	35GW99	—	—
	1	White	Plastic	—	—	2¾"	12¼"	10⅛"	—	—	—	35GX01
UL 924, NYC Approved												
Incandescent	1	White	Steel	Sealed Lead Acid	32° to 104°F	4"	14½"	16½"	9	40CP83	—	—
UL 924												
LED	1 or 2	White	Plastic	Sealed Lead Acid	32° to 104°F	2½"	21 3/16"	10⅛"	12	40CP82	—	—
	1 or 2	White	Plastic	Sealed Lead Acid	32° to 104°F	13"	5"	14"	2	40CP84	—	—
	1 or 2	White	Plastic	Nickel Cadmium	32° to 104°F	1 13/16"	11 13/16"	9½"	2	40CP85	—	—
	1 or 2	White	Plastic	Nickel Cadmium	32° to 104°F	1 13/16"	11 13/16"	9 9/16"	2	40CP86	2	40CP87
UL												
LED	2	White	Plastic	Nickel Cadmium	50° to 104°F	2 9/16"	21"	8½"	3.00	489K12	3.00	489K14
	2	White	Plastic	Nickel Cadmium	50° to 104°F	2 9/16"	21"	8½"	3.00	489K13	—	—

HUBBELL® COMPASS DUAL LITE

LED Exit Signs

- 120/277VAC
- 6"H letters with ¾" stroke
- Universal mounting (wall/ceiling/end), except Nos. 32WU20 and 32WU22 are flush-mount
- Snap-in chevrons for direction choice

Thermoplastic housings are impact- and scratch-resistant, corrosionproof, and UV-stabilized. Snap-together design and push-in wire connectors simplify installation.

Signs with battery backup provide 90 min. emergency illumination and have LED status indicator and test button.



No. 32WU24



No. 32WU14



No. 32WU18



No. 458T10



No. 32WU23



No. 46T225



No. 16U273

No. of Faces	Housing Color	Housing Material	Battery Chemistry	Operating Temp. Range	D	W	H	Brand	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Exit Sign												
UL924 Suitable for Damp Location, NFPA 70 and 101, OSHA												
1 or 2	White	Plastic	Nickel Cadmium	32° to 122°F	2"	11 39/64"	7 13/64"	Hubbell Lighting - Compass	1.78	32WU24	—	—
2	Black	Aluminum	Nickel Cadmium	32° to 122°F	⅛"	11 39/64"	7¾"	Hubbell Lighting - Compass	1	32WU29	—	—
1	Black	Aluminum	Nickel Cadmium	32° to 122°F	⅛"	11 39/64"	7¾"	Hubbell Lighting - Compass	—	—	1	32WU30
UL 924, NFPA 70 and 101												
1 or 2	Black	Plastic	—	20° to 30°C	1½"	11½"	9"	Hubbell Lighting - Dual-Lite	1.42	32WU14	—	—
	White	Plastic	—	20° to 30°C	1½"	11½"	9"	Hubbell Lighting - Dual-Lite	1.42	32WU17	1.36	32WU15
	White	Plastic	Nickel-Metal Hydride	20° to 30°C	1½"	11½"	9"	Hubbell Lighting - Dual-Lite	2.01	32WU18	2.01	32WU16
UL924, Damp Location, NFPA 101, NFPA 70, OSHA												
1 or 2	White	Plastic	Not Battery Powered	20° to 30°C	2"	11⅝"	7¼"	Hubbell Lighting - Compass	1.80	458T10	1.50	458T11
Exit Sign with Emergency Lights												
UL 924 Suitable for Damp Location, NFPA 70 and 101 OSHA												
1 or 2	White	Plastic	Nickel Cadmium	10° to 40°C	2"	18"	7 13/64"	Hubbell Lighting - Compass	3.56	32WU22	3.2	32WU23
	White	Plastic	Nickel Cadmium	10° to 40°C	2"	18"	7 13/64"	Hubbell Lighting - Compass	4.12	32WU20	3.22	32WU21
UL 924 Suitable for Damp Location, NFPA 70 and 101, OSHA, CEC T20												
1 or 2	White	Plastic	Nickel Cadmium	68° to 86°C	4 5/16"	19¼"	8⅛"	Hubbell Lighting - Compass	3.90	488U41	—	—
	White	Plastic	Nickel Cadmium	68° to 86°C	2"	18"	7 3/16"	Hubbell Lighting - Compass	4.00	488U42	—	—
UL 924 Suitable for Damp Location, NFPA 70 and 101												
1 or 2	White	Plastic	Lithium Iron Phosphate	10° to 40°C	2½"	12"	9"	Hubbell Lighting - Dual-Lite	1.65	32WU11	—	—
UL924												
2	White	Plastic	Lithium Iron Phosphate	20 to 30°C	2½"	12"	9"	Hubbell Lighting - Dual-Lite	1.65	46T225	1.65	46T226
NFPA 101, UL 924												
1 or 2	White	Plastic	Lead Calcium	32 to 104°F	3⅝"	13"	14¼"	Hubbell Lighting - Dual-Lite	—	—	5	16U273



Quantum®
No. 3BA32



Signature®
No. 4PH24

LITHONIA LIGHTING

LED Exit Signs

- 120/277V
- 6"H letters with ¾" stroke; New York Approved have 8"H letters with 1" stroke
- Universal mounting capability, except No. 2XLF9 is flush mount only
- Knockout chevrons for choice of direction
- Ni-Cd battery (unless noted)



Contractor Select Exit/ Light Combo
No. 16U220

Titan® Exit/ Light Combo
No. 2XLF9



CONTRACTOR SELECT SERIES

3-sided housing has snap-fit components for easy installation. Push-button test. No. 13M596 features high-efficiency LED lamp heads and LED indicators. Nos. 16U220 and 16U221 feature a swiveling emergency light bar and rechargeable battery.

QUANTUM® SERIES

Impact-, scratch-, and corrosion-resistant housing snaps together with no additional fasteners; UV-stabilized to resist discoloration.

Self-Diagnostic*

Automatically run charging, battery condition, and AC-to-DC transfer tests for 5 min. every 30 days, and for 30 min. every 6 mo. Continuously monitor AC functionality. Additional features include low-voltage disconnect and brownout protection. With 2-state constant-current charger, multichromatic, multifunction status indicator, and interchangeable faceplate and back cover. LEDs operate in normal (AC) and emergency (DC) modes.

SIGNATURE® SERIES

Provide uniform illumination. Hinged faceplate and spring latches provide easy lamp access.

Self-Diagnostic*

Automatically run tests for 5 min. every 30 days, and for 30 min. every 6 mo.; manual test switch activates 30-sec. diagnostic testing. With multichromatic, multifunction status indicator and interchangeable faceplate and back cover. Single-point microcomputer controls all electronic features. Low-voltage disconnect (LVD) prevents excessive discharge that can permanently damage the battery.

TITAN® SERIES

Heavy-gauge, die-formed housing with impact-resistant color panels is well-suited to general industrial environments. Fully assembled 1-face exit includes an extra faceplate for easy conversion to 2-face.

Item	No. of Faces	Housing Color	Housing Material	Battery Chemistry	Operating Temp. Range	D	W	H	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Contractor Select Series												
OSHA Illumination Standards, NFPA 101, NFPA 70-NEC, UL and UL 924												
Exit Sign with Emergency Lights	1 or 2	White	Plastic	Ni-Cad	—	1⅞"	12⅝"	8¼"	3	**16U220**	3	**16U221**
UL 924, NFPA 101, NFPA 70, FCC, OSHA												
Exit Sign with Emergency Lights	1 or 2	White	Plastic	Ni-Cad	10° to 40°C	4 21/64"	16"	7¼"	3.50	**487V40**	3.50	**487V41**
	1 or 2	White	Plastic	Ni-Cad	10° to 40°C	4 21/64"	16"	7¼"	3.50	**487V42**	3.50	**487V43**
UL 924, NFPA 101, NFPA 70-NEC®, OSHA												
Exit Sign	2	White	Plastic	Ni-Cad	—	1⅝"	11⅝"	7½"	3.80	**13M595**	3.80	**13M596**
	2	White	Plastic	—	—	1⅝"	11⅝"	7 3/16"	3.20	**13M593**	3.80	**13M594**
Quantum Series												
OSHA, NOM Certified, NFPA 101, NEC, UL and UL 924												
Exit Sign with Emergency Lights	2	White	Plastic	Ni-Cad	50 to 104°F	2½"	19¼"	8"	3	**4ZDA6**	3	**4ZDA8**
	2	White	Plastic	Ni-Cad	50 to 104°F	2½"	19¼"	8"	3	**4ZDA7**	—	—
UL, 924 NOM Certified, NFPA 101, NEC®, OSHA												
Exit Sign	1 or 2	Black	Plastic	—	—	1 5/16"	11¾"	7⅝"	0.62	**1THX7**	—	—
	1 or 2	Black	Plastic	Ni-Cad	—	2"	11¾"	7⅝"	0.71	**1THX8**	—	—
UL, Damp Location, NFPA 101, NEC®, OSHA												
Exit Sign	1	Black/Silver	Aluminum	—	—	2"	11¾"	8¼"	0.60	**1VCT8**	0.60	**1VCU7**
	1	Black/Silver	Aluminum	Ni-Cad	50° to 104°F	2"	11¾"	8¼"	0.60	**1VCU3**	0.60	**1VCU9**
	1	White	Aluminum	—	—	2"	11¾"	8¼"	0.60	**1VCU1**	—	—
	1	White	Aluminum	Ni-Cad	50° to 104°F	2"	11¾"	8¼"	0.6	**1VCU5**	—	—
	2	Black/Silver	Aluminum	Ni-Cad	50° to 104°F	2"	11¾"	8¼"	0.60	**1VCU4**	0.60	**1VCV1**
	2	Black/Silver	Aluminum	—	—	2"	11¾"	8¼"	0.60	**1VCT9**	0.60	**1VCU8**
	2	White	Aluminum	Ni-Cad	50° to 104°F	2"	11¾"	8¼"	0.60	**1VCU6**	—	—
UL, NFPA 101, NEC®, OSHA												
Exit Sign	1 or 2	White	Plastic	Ni-Cad	—	2"	11¾"	7⅝"	0.71	**3BA32**	—	—
	1 or 2	White	Plastic	Ni-Cad	—	2"	11¾"	7½"	—	—	0.71	**3BA33**
	1 or 2	White	Plastic	—	—	2"	11¾"	7⅝"	0.62	**3BA31**	0.62	**1GC97**
UL 924, NFPA 101, NEC®, OSHA												
Exit Sign	1 or 2	White	Plastic	Ni-Cad	50° to 104°F	2"	11¾"	7⅝"	0.71	**2XLW3** *	0.71	**2XLW4** *
Signature Series												
UL, NFPA 101, NEC®, OSHA												
Exit Sign	1	Black/Silver	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	2.8	**4WT13** *	—	—
	1	Black/Silver	Aluminum	—	—	1¾"	11⅜"	7⅞"	1.2	**4PH24**	—	—
	1	Black/Silver	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	1.3	**5TP18**	—	—
	1	White	Aluminum	—	—	1¾"	11⅜"	7⅞"	1.2	**4PH36**	—	—
	1	White	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	1.3	**5TP24**	—	—
	2	Black/Silver	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	2.8	**4WT17** *	—	—
	2	Black/Silver	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	1.3	**5TP21**	—	—
	2	Black/Silver	Aluminum	—	—	1¾"	11⅜"	7⅞"	1.2	**4PH23**	—	—
	2	White	Aluminum	Ni-Cad	32° to 100°F	1¾"	11⅜"	7⅞"	—	—	1.7	**5TP23** *
UL 924, NFPA 101, NEC®, OSHA, New York Approved												
Exit Sign	1 or 2	Black/Silver	Aluminum	Ni-Cad	32° to 100°F	1¾"	15½"	10½"	2.3	**2XLF8**	—	—
	1 or 2	Black/Silver	Aluminum	—	—	1¾"	15½"	10½"	2.70	**2XLF7**	—	—
Titan Series												
OSHA, New York Approved, NFPA 101, NEC, UL and UL 924												
Exit Sign with Emergency Lights	1	White	Steel	Lead Calcium	60 to 90°F	4¼"	14½"	15½"	12.7	**2XLF9**	—	—
UL, NFPA 101, NEC®, OSHA												
Exit Sign	1 or 2	White	Steel	Ni-Cad	—	2"	12½"	7⅞"	—	—	3.8	**3GA43**
	1 or 2	White	Steel	—	—	2"	12½"	7⅞"	3.8	**4PH13**	—	—
	1 or 2	White	Steel	Ni-Cad	32° to 122°F	2"	12½"	7⅞"	3.80	**4XT48**	—	—
UL 924, NFPA 101, NEC®, OSHA, New York Approved												
Exit Sign	1 or 2	White	Steel	—	—	2"	14⅝"	10⅝"	2.0	**2XLF5**	—	—
	1 or 2	White	Steel	Ni-Cad	32° to 100°F	2"	14⅝"	10⅝"	2.0	**2XLF6**	—	—

** Self-Diagnostic.*

FULHAM
Lighting...Global. Intelligent. Sustainable.

LED Exit Signs

- 120/277V
- 6" H letters
- Provide at least 90 min. emergency lighting
- Universal mounting

Maintenance-free LED lights are energy-efficient with up to a 10-year expectancy, helping reduce costs. Nos. 35GK18, 35GK20, 35GK22, and 35GK23 have multifunction capabilities and provide LED performance on both sign and lights. Meet UL 924.



No. 35GK27



No. 35GK26



No. 407K32



No. 35GK23



No. 35GK18

No. of Faces	Housing Color	Housing Material	Battery Chemistry	Operating Temp. Range	D	W	H	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Exit Sign											
UL 924											
2	White	Plastic	Nickel Cadmium	0° to 40°C	2½"	12⅝"	8⅛"	1.89	**407K34**	—	—
UL924, NFPA 101, OSHA											
1 or 2	White	Plastic	Nickel Cadmium	10° to 40°C	2"	11⅜"	7¼"	—	—	1.49	**35GK26**
	White	Plastic	Nickel Cadmium	10° to 40°C	2"	12⅝"	8¼"	1.49	**35GK27**	—	—
	White	Plastic	Sealed Lead Acid	0° to 50°C	1¾"	12¼"	7¾"	3.2	**35GK30**	3.8	**35GK28**
	White	Plastic	—	0° to 50°C	1¾"	12¼"	7¾"	3.2	**35GK29**	—	—
Exit Sign with Emergency Lights											
UL 924											
2	White	Plastic	Nickel Cadmium	0° to 40°C	2½"	12⁹⁄₁₆"	13⅛"	4.06	**407K32**	4.01	**407K33**
UL924, NFPA 101 and OSHA											
1 or 2	White	Plastic	Nickel Cadmium	20° to 30°C	3⅜"	19¼"	8⁵⁄₃₂"	5	**35GK23**	3.9	**35GK22**
	White	Plastic	Sealed Lead Acid	20° to 40°C	2½"	21¹³⁄₁₆"	10¼"	3.2	**35GK20**	—	—
	White	Plastic	Nickel Cadmium	20° to 30°C	2"	18"	8³⁄₁₆"	4.12	**35GK18**	—	—

FULHAM
Lighting...Global. Intelligent. Sustainable.

HUBBELL® COMPASS
Life Safety Products by Hubbell Lighting Inc.

LITHONIA LIGHTING®

LumaPro®

LED Edge-Lit Exit Signs

- 120/277V
- 6"H letters; New York Approved have 8"H letters with 1" stroke

LEDs operate in normal (AC) and emergency (DC) modes. Conveniently located test switch and status indicator. Extruded brushed-aluminum or aluminum/acrylic lamp housing.

Nos. 2YGL2, 2YGL3, 46T227, 46T228, and 2YGL5 have a mirrored background.

Great for architectural applications where aesthetics are important, including schools, hospitals, retirement facilities, offices, restaurants, theaters, hotels, and retail spaces.



No. 35GK33



No. 46T228



No. 454Y85



No. 454Y94



No. 2XLG5



No. 53RH94

No. of Faces	Mounting	Housing Color	Housing Material	Background Color	Battery Chemistry	Operating Temp. Range	D	W	H	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Fulham Firehorse Exit Lighting													
UL924, NFPA 101, OSHA													
1	Universal	—	Aluminum	Clear	Sealed Lead Acid	10° to 40°C	⅜"	12¾"	11"	3.2	**35GK33**	—	—
Hubbell Lighting - Compass													
UL 924, NFPA 101, NRPA 70, OSHA													
2	Recessed	Gray	Aluminum	Silver	Nickel Cadmium	20 to 30°C	4"	15"	10⁵⁄₁₆"	3.7	**46T228**	—	—
	Universal	Gray	Aluminum	Silver	Nickel Cadmium	20 to 30°C	3½"	13"	10"	3.7	**46T227**	—	—
Lithonia Lighting													
UL, Damp Location, UL924, NFPA 101, NEC, OSHA													
1	Universal	Clear	Plastic	Silver	Nickel Cadmium	0° to 50°C	4⁵⁄₁₆"	13"	11⅛"	2.8	**454Y91**	2.8	**454Y92**
	Universal	White	Plastic	White	Nickel Cadmium	0° to 50°C	4⁵⁄₁₆"	13"	11⅛"	2.8	**454Y93**	2.8	**454Y94**
2	Recessed	Clear	Plastic	Silver	Nickel Cadmium	0° to 50°C	1¾"	13"	8"	4.5	**454Y85**	4.5	**454Y86**
UL 924, NFPA 101, NEC, OSHA, NEW YORK APPROVED													
1	Recess	Gray	Aluminum	Clear	—	—	4⅛"	15⅛"	13¼"	3.0	**2XLG8**	—	—
	Recess	Gray	Aluminum	Clear	Nickel Cadmium	32° to 100°F	4⅛"	15⅛"	13¼"	3.0	**2XLG9**	—	—
	Universal	Gray	Aluminum	Clear	Nickel Cadmium	32° to 100°F	1¾"	15⅛"	13¼"	3.0	**2XLG5**	—	—
	Universal	Gray	Aluminum	Clear	—	—	1¾"	15⅛"	13¼"	3.0	**2XLG4**	—	—
2	Recess	Gray	Aluminum	Clear	Nickel Cadmium	32° to 100°F	4⅛"	15⅛"	13¼"	3.0	**2XLH2**	—	—
	Universal	Gray	Aluminum	Clear	—	—	1¾"	15⅛"	13¼"	3.0	**2XLG6**	—	—
	Universal	Gray	Aluminum	Clear	Nickel Cadmium	32° to 100°F	1¾"	15⅛"	13¼"	3.0	**2XLG7**	—	—
	Recess	Gray	Aluminum	Clear	—	—	4⅛"	15⅛"	13¼"	3.0	**2XLH1**	—	—
UL 924, NFPA 101 (Current Life Safety Code), NEC, OSHA													
1	Universal	Gray	Aluminum	Clear	—	—	1¾"	13"	11⅛"	2.8	**2YGK7**	2.8	**2YGK8**
	Universal	Gray	Aluminum	Clear	Nickel Cadmium	—	1¾"	13"	11⅛"	2.8	**2YGK9**	2.8	**2YGL1**
2	Universal	Gray	Aluminum	Clear	Nickel Cadmium	—	4¹⁵⁄₁₆"	13"	11⅛"	—	—	2.8	**2YGL5**
	Universal	Gray	Aluminum	Clear	—	—	⅜"	12¾"	11⅛"	2.8	**2YGL2**	2.8	**2YGL3**
LumaPro													
No Standards													
1	Recess	—	—	Clear	Nickel Cadmium	32° to 100°F	4"	14⁹⁄₁₆"	11¹⁄₁₆"	3.0	**53RH94**	3.0	**53RH95**
2	Recess	—	—	Mirrored	Nickel Cadmium	32° to 100°F	4"	14⁹⁄₁₆"	11¹⁄₁₆"	3.0	**53RH96**	3.0	**53RH97**
UL to UL 924 Standard, NFPA Life Safety Code 101													
1	Universal	Gray	Aluminum	Gray	Nickel Cadmium	—	1⅝"	12"	9⅝"	0.4	**6CGL3**	—	—

No. 46T229





No. 454Y90

LED Vandal-Resistant Wet Location Exit Signs

- 120/277V
- 6"H letters

Housings are made to withstand high-abuse environments. Thermoplastic faceplate incorporates universal directional chevron knockouts that are concealed, yet easily removed and replaced. Clear, UV-stable cover is secured with 4 Torx® T20 tamperproof screws with center pin. Tough enough for prisons, parking garages, schools, and commercial buildings.

HUBBELL

- Universal mounting

Severe-condition, cast aluminum housing is vandal-resistant. For indoor/outdoor wet locations.

LITHONIA LIGHTING®

- Universal mounting, except Nos. 4PH56 and 4PH57 are back-mounted

Nos. 4PH56 and 5YB73 have a vandal-resistant magnetic test switch that maintains the integrity of the housing, while providing a simple means of manual testing. Not for use in temperatures below freezing, except Nos. 46C212 to 46C217 are for cold temperatures.

No. 46C212



No. 4PH56



No. of Faces	Housing Color	Housing Material	Battery Chemistry	Operating Temp. Range	D	W	H	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Hubbell Lighting - Dual-Lite											
UL924											
1	White	Aluminum	—	-30 to 50°C	3"	14¾"	10¼"	2.1	**46T229**	1.8	**46T230**
2	White	Aluminum	Ni-Cad	-30 to 50°C	3½"	14¾"	10¼"	3.1	**46T237**	—	—
1	White	Aluminum	Ni-Cad	-30 to 50°C	3½"	14¾"	10¼"	3.1	**46T235**	—	—
Lithonia Lighting											
UL, NEMA 4X, UL 924, NFPA 101, NEC, OSHA, NEMA Premium											
2	White	Aluminum	—	10° to 40°C	4¼"	13⅞"	8½"	2.3	**454Y87**	1.7	**454Y89**
	Black	Aluminum	—	10° to 40°C	4¼"	13⅞"	8½"	2.3	**454Y88**	1.7	**454Y90**
1	Black	Aluminum	Ni-Cad	—	3"	13⅞"	8⅝"	2.3	**5YB73**	—	—
UL, Wet Location, Cold Temp											
2	White	Plastic	Ni-Cad	-4 to 122°F	2½"	12½"	8⅛"	2.7	**46C213**	3.4	**46C214**
1	White	Plastic	—	-4 to 122°F	2½"	12½"	8⅛"	2.7	**46C216**	3.4	**46C219**
2	White	Plastic	—	-4 to 122°F	2½"	12½"	8⅛"	2.7	**46C217**	3.4	**46C218**
1	White	Plastic	Ni-Cad	-4 to 122°F	2½"	12½"	8⅛"	2.7	**46C212**	3.4	**46C215**
UL 924, NFPA 101, NEC®, OSHA											
1	White	Aluminum	—	—	3"	13⅞"	8⅝"	2.3	**4PH57**	—	—
	White	Aluminum	Ni-Cad	—	3"	13⅞"	8⅝"	2.3	**4PH56**	—	—

No. 2TUE6



No. 2VDE8



Self-Luminous Exit Signs

isolite

- No electricity or batteries required
- 6"H letters with ¾" stroke
- Universal mounting hardware included
- Vandal-resistant signs must be surface mounted
- Directional chevrons

Maintenance-free signs have no lamps or batteries to replace and do not require a light source. Phosphor-coated, tritium-filled glass tubes provide worry-free emergency lighting. Vibrationproof, spark-free, and unaffected by extreme temperatures. Great for damp, wet, and explosive-atmosphere environments.

Vandal-Resistant Signs Nos. 2TUG5, 2VDE8, 2TUG6, and 2VDE9 have cast aluminum frame with ⅜" unbreakable polycarbonate face. Designed for high-abuse and high-traffic applications. UL Listed. Meet UL 924 and NFPA 101 standard.

No. of Faces	Housing Material	D	W	H	GREEN Item No.	RED Item No.
10 yr. Life Expectancy						
1	Plastic	1"	14"	8½"	**2TUE6**	**2VDD9**
	Aluminum	1½"	12¾"	8¼"	**2TUG1**	**2VDE4**
	Aluminum	1⅞"	16¾"	12¼"	**2TUG5**	**2VDE8**
2	Aluminum	2¾"	12¾"	8¼"	**2TUG3**	**2VDE6**
	Plastic	2½"	14"	8½"	**2TUE8**	**2VDE2**
20 yr. Life Expectancy						
1	Aluminum	1½"	12¾"	8¼"	**2TUG2**	**2VDE5**
	Plastic	1"	14"	8½"	**2TUE7**	**2VDE1**
	Aluminum	1⅞"	16¾"	12¼"	**2TUG6**	**2VDE9**
2	Plastic	2½"	14"	8½"	**2TUE9**	**2VDE3**
	Aluminum	2¾"	12¾"	8¼"	**2TUG4**	**2VDE7**

No. 6ZCK0



No. 6ZCK1



LED Exit Sign Retrofit Kits, Chicago/New York City-Approved

RADIONIC HI-TECH, INC.

- Replace existing fluorescent and incandescent exit sign lamps in edge-lit and box-style exit signs
- Meets both City of Chicago and New York City Standards
- 5-yr. warranty

Long-lasting LEDs use only 4.5W of power and are eligible for utility rebates. They help reduce labor and replacement bulb costs, with a 12 to 18 month typical payback. Install easily in about 8 min. Internal Driver model is 1"H; External Driver model is ⅜"H for signs with a small lip. UL 924 approved for most exit signs.

For Use With	Voltage	LED Color	POWER SUPPLY Internal Item No.	POWER SUPPLY External Item No.
Exit Sign without Battery Back-Up	120/277	White	**6ZCK0**	**6ZCK1**
Exit Sign with Battery Back-Up	120/277	White	**460K94**	—

Replacement Batteries

Note: Additional batteries are available on Grainger.com®.

Voltage	Capacity	Terminal Type	D	W	H	For Use With	Mfr. Model	Item No.
LumaPro								
2.4	300mAh	JST	9/16"	1 1/8"	1 15/16"	6CGL5	48H468	**48H468**
3.6	300mAh	JST	1 3/64"	1 1/8"	1 15/16"	6CGL6	48H467	**48H467**
4.8	300mAh	JST	1 3/16"	1 3/16"	1 3/4"	6CGL3, 6CGL4	48H465	**48H465**
	650mAh	JST	1 1/16"	1 1/16"	1 15/16"	6CGL9,6CGN0,6CGN5,6CGN6,6CGN7,6CGN8	48H466	**48H466**
6	4.5Ah	0.187" Male Tab	2 3/4"	1 7/8"	4 3/16"	6CGL2,6CGN1,6CGN2,6CGN3,6CGN4	48H470	**48H470**
	12Ah	Male Tab	2"	5 15/16"	3 7/8"	6CGL1	48H471	**48H471**
Lithonia Lighting								
1.2	1mAh	Tyco(AMP)	5/8"	3/4"	1 5/8"	Mfr. No. LQM S 3 R 120/277 EL N M6, LQM S W 3 G 120/277 ELNSD, LQM S W 3 R ELN 120/277M6, LQM S W 3 G ELN 120/277M6	ELB 1P201N2	**2PFV7**
	1.2Ah	Plug	1"	7/8"	1 5/8"	Mfr. No. LQC 1 R EL N to LQC W 2 R EL N	ELB 1P201NB	**2XLD7**
	1000mAh	AMP	3/4"	3/4"	1 5/8"	Mfr. No. LX S W 3 G 120/277 EL N, LE S W 1 R 120/277 ELN SD, LE S W 2 R 120/277 ELN SD, LE S 1 R 120/277 EL N SD, LE S 2 R 120/277 EL N SD, LX W 3 R EL N, LE S 1 R 120/277 EL N, LE S 2 R 120/277 EL N, LE S W 1 R 120/277 EL N, LE S W 2 R 120/277 EL N, LQM S W 3 R ELN 120/277M6, LQM S W 3 R 120/277 ELNSD	ELB 1P201N	**4WT20**
	1000mAh	Cap and Base	1 1/16"	3/4"	1 5/8"	Manufactured Before 1998 Mfr. No. LX S W 3 G 120/277 EL N, LQM S W 3 R 120/277 ELNSD, LE S 1 R 120/277 EL N SD, LE S 2 R 120/277 EL N SD, LE S W 2 R 120/277 ELN SD, LE S W 1 R 120/277 ELN SD, LX W 3 R EL N, LE S 1 R 120/277 EL N, LE S 2 R 120/277 EL N, LE S W 1 R 120/277 EL N, LE S W 2 R 120/277 EL N	ELB 1201N	**2XLD5**
12	24Ah	Slip On	3 5/8"	6"	6"	Mfr. No. IND12100	ELB 1224B	**2XLD6**
	28Ah	Threaded	5 1/8"	7 3/4"	6 1/8"	Mfr. No. ELT125	ELB 1228	**4PG82**
	75Ah	Threaded	9 21/32"	6 11/16"	10 7/32"	Mfr. No. ELT275	ELB 1255	**4PG70**
2.4	1000mAh	AMP	1 1/16"	1 3/8"	1 3/4"	Mfr. No. LV S W 1 R 120/277 EL N, LV S 1 R 120/277 EL N UM 4X	ELB 2P401N	**4WT21**
3.6	900mAh	Plug	6"	1 1/32"	1 57/64"	Mfr. No. EU2LED	ELB B001	**38GT89**
6	4.0Ah	Slip On	1 7/8"	2 3/4"	4 1/8"	Mfr. No. LHQM SW3RM4, LHQM S W 3 G 120/277, ELM2 SD, ELR2, X S W 3 G 120/277 EL, F2X S W 3 R 120/277 EL, QM S W 3 R 120/277 EL, ELM, ELM2, ELM2 B, LHQM S W 3 R HO M4, ECR M6	ELB 06042	**4PH44**
	6.5Ah	Slip On	4"	1 1/2"	6"	Mfr. No. ELU2X, ELR2, ELT16, 6ELM2, HQM S W 3 R 120/277, HQM S W 3 G 120/277, IND618, IND1236	ELB 0607	**4PG76**
	10Ah	Slip On	1 15/16"	5 15/16"	3 11/16"	Mfr. No. ELM4, IND654, IND1254	ELB 0610	**4PG87**
	12Ah	Slip On	1 15/16"	5 15/16"	3 11/16"	Quantum Emergency, Indura and Indura 4X Units	ELB 0612A	**2PFW1**
	14Ah	Recessed Tabs	2 3/4"	4 1/4"	5 1/2"	Mfr. No. ELU3X, ELT36, ELT50	ELB 0614	**4PH12**
7.2	1.4Ah	AMP	7/8"	5 1/2"	1 7/8"	Mfr. No. LV S W R 120/277 ELN UM	ELB0701N	**4PH22**
Hubbell Lighting - Dual-Lite								
12	7.2Ah	Flag Terminal	2 3/16"	6"	4"	LM36-12V/LM40-12V	0120803	**16U266**
4.8	600mAh	Amp Connector	1/2"	1 1/4"	2"	LXURWEI-FX	012089401	**24D679**
6	4.5Ah	—	1 29/32"	2 51/64"	4 11/32"	EZ-2, EZ-2-V, HCX Series	0120255	**3WAK1**
	7.2Ah	Flag Terminal	1 21/64"	6"	4"	LM16 Series, EZ-2D, EZ-2I	0120824	**16U265**
8.4	2.5Ah	Amp Connector	1 1/8"	7 1/8"	2 1/8"	PG Series Light	93011385	**16U264**
Cooper Lighting								
6	7.0Ah	Spade	1 3/4"	6"	3 3/4"	CC4, XR	02645SP	**16U393**



LED Tape and Rope Lights

★ LumaPro

- 120V
- Rated avg. life: 35,000 hr.

Low-profile flexible accent lighting uses 80% to 90% less energy compared to incandescents. Excellent for general indirect illumination, as well as in under-cabinet, cove lighting, and entertainment center applications. Dimmable.

TAPE LIGHTS

1-sided lights have an adhesive backing. Conform to and stick to most surfaces, even uneven surfaces.

ROPE LIGHTS

- Outdoor rated

Include installation clips and screws. 150-ft. lights also include additional power connectors for field cutting.

L	W	H	ORANGE/AMBER Watts	ORANGE/AMBER Item No.	BLUE Watts	BLUE Item No.	GREEN Watts	GREEN Item No.	RED Watts	RED Item No.	YELLOW Watts	YELLOW Item No.	WHITE Watts	WHITE Item No.	WARM WHITE (3000K) Watts	WARM WHITE (3000K) Item No.
LED Rope Lights																
6 ft.	1/2"	1/2"	2.4	**30F521**	6	**30F518**	6	**30F517**	—	—	—	—	6	**30F519**	6	**30F520**
18 ft.	1/2"	1/2"	—	—	—	—	—	—	7.2	**30F516**	—	—	18	**30F514**	18	**30F515**
150 ft.	3/8"	3/8"	70.5	**38NH62**	—	—	115.5	**38NH64**	70.5	**38NH65**	—	—	115.5	**38NH66** †	115.5	**38NH67** *
150 ft.	1/2"	1/2"	70.5	**38NH55**	115.5	**38NH56**	115.5	**38NH57**	70.5	**38NH58**	70.5	**38NH59**	115.5	**38NH60** †	115.5	**38NH61** *
150 ft.	1/2"	1/2"	—	—	—	—	—	—	—	—	—	—	150	**30F523**	—	—

L	W	H	BLUE Watts	BLUE Item No.	GREEN Watts	GREEN Item No.	RED Watts	RED Item No.
LED Tape Lights								
6 ft.	2/5"	1/10"	4.4	**30F531**	4.4	**30F530**	4.4	**30F534**
12 ft.	2/5"	1/10"	8.8	**30F526**	—	—	8.8	**30F529**

Item	For Use With	Item No.
Rope Light Accessories		
Power Cord	30F523-30F524	**30F535**

** 2700K color temp. † 6400K color temp. (daylight).*



Nominal Aperture Size	Watts	Voltage	Lumens	Color Temp.	Replaces	ENERGY STAR Rated	Item No.
Airtight New Construction							
4"	12	120	600	3000K	65W Incandescent	Yes	**45AX69**
	12	120	600	2700K	65W Incandescent	Yes	**45AY99**
	13	120-277	600	4100K	65W Incandescent	Yes	**45AY12**
5"	16	120	900	3500K	75W Incandescent	Yes	**45AX62**
	18	120	900	3000 to 2000K	75W Incandescent	Yes	**45AX68**
6"	13	120-277	600	2700K	65W Incandescent	Yes	**45AY47**
	13	120-277	600	3500K	65W Incandescent	Yes	**45AY76**
Airtight Remodel							
4"	12	120	600	3500K	65W Incandescent	Yes	**45AY81**
5"	12	120	600	4100K	65W Incandescent	Yes	**45AY93**
6"	11.3	120-277	900	4100K	75W Incandescent	Yes	**45AX94**
	13	120-277	600	2700K	65W Incandescent	Yes	**45AX87**
	16	120	900	4100K	75W Incandescent	Yes	**45AX89**
	17	120-277	900	3500K	75W Incandescent	Yes	**45AY72**

Reflector or Baffle Color	Trim Color	Fits 4" Housing Item No.	Fits 5" Housing Item No.	Fits 6" Housing Item No.
Recessed Down Light Trim				
Aluminum Reflector	White	**45DL51**	**45DL55**	**45DL59**
Black Baffle	White	**45DL49**	**45DL53**	**45DL57**
Haze Aluminum Reflector	White	**45DL52**	**45DL56**	**45DL60**
White Baffle	White	**45DL50**	**45DL54**	**45DL58**



JUNO
Recessed and Trac Lighting



LED Downlights and Trim

- Rated avg. life: 50,000 hr.
- 90 CRI
- Dimmable

Provide significant energy cost savings and high-quality light when installed as direct replacements for incandescent and CFL downlights. With IC-rated insulation and J-box connectability. UL and C-UL Listed.







Recessed Lighting LED Retrofit Kits

Can be installed as direct replacements for existing incandescent, spiral CFL, and halogen recessed cans to provide significant energy cost savings.

GE Lighting—Include pigtail base attachment. UL and C-UL Listed, suitable for damp locations.

Juno®—Include LED light engine, baffle/trim, socket adapter, and quick connectors. All are UL and C-UL Listed.

LumaPro®—Suitable for damp locations.

Nom. Size	Watts	Voltage	Lumens	Color Temp.	CRI	Rated Life	ENERGY STAR Rated	Dimmable	Socket Type	Item No.
GE Lighting										
Lumination™ RS6 Downlight										
4"	10	120	700	2700K	80	35,000 hr.	—	Yes	E26	**35YF41**
Lumination™ LRX										
6"	13	120 to 277	1000	3000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX60**
	13	120 to 277	1000	3500K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX61**
	13	120 to 277	1000	4000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX62**
	22	120 to 277	1800	3000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX63**
	22	120 to 277	1800	3500K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX64**
	22	120 to 277	1800	4000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX65**
8"	13	120 to 277	1000	3000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX66**
	13	120 to 277	1000	3500K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX67**
	13	120 to 277	1000	4000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX68**
	19.5	120/277	1800	3000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**48TK69**
	22	120 to 277	1800	4000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**52WX69**
	36	120/277	3000	3000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**48TK75**
	36	120/277	3000	3500K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**48TK76**
	36	120/277	3000	4000K	82	50,000 hr.	ENERGY STAR® Certified	Yes	—	**48TK77**
Lumination™ RS6 Downlight										
4"	10	120	700	3000K	80	35,000 hr.	—	Yes	E26	**35YF42**
Juno Lighting Group - Juno Recessed Retrofit LED Basics Series™										
4"	10	120	650	2700K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ26**
	10	120	650	3000K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ46**
5"	10	120	717	2700K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ29**
	10	120	750	3000K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ23**
6"	10	120	600	3000K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ57**
	10	120	700	2700K	90	36,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ69**
WarmDim®										
6"	12	120	600	3000K	90	50,000 hr.	ENERGY STAR® Certified	Yes	E26	**45AZ53**
LumaPro										
4"	10	120	720	4100K	81	35,000 hr.	ENERGY STAR® Certified	Yes	E26	**49WJ32**
	10	120	720	2700K	80	35,000 hr.	ENERGY STAR® Certified	Yes	E26	**53FN79**
6"	11	120	880	2700K	81	35,000 hr.	ENERGY STAR® Certified	Yes	E26	**49WJ33**
	11	120	880	3000K	90	35,000 hr.	ENERGY STAR® Certified	Yes	E26	**53FN80**





Track Lights

- Fixtures adjust 90° vertical, 358° horizontally
- Lamps not included

Track lighting comes in a variety of styles, finishes, and other options so that you can find the lighting solutions that you need for your particular application. Use for display, task, accent, or architectural lighting in homes, offices, retail environments, hotels and restaurants, commercial facilities, and more.

Note: Additional fixtures and accessories are available on Grainger.com®.

Shape	Max. Wattage	Suggested Lamp Type	Dia.	L	BLACK Mfr. Model	BLACK Item No.	WHITE Mfr. Model	WHITE Item No.
12VAC Track Lights								
Cylinder	50	MR16	2½"	3¾"	R702 BL	**45DM34**	R702 WH	**45DM36**
Gimbaled	50	MR16	2"	2"	R731 BL	**45DM37**	R731 WH	**45DM40**
120VAC Track Lights								
Cylinder	50	PAR20, R20	3½"	5"	R501 BLB BL	**45DL81**	R501 WHB WH	**45DL85**
	50	PAR20, R20	3½"	4⅞"	—	—	R521 WHB WH	**45DL99**
	75	BR30, PAR30L	4⅜"	6"	R502 BLB BL	**45DL86**	R502 WHB WH	**45DL89**
	75	BR30, PAR30L	4⅜"	6⅛"	—	—	R522 WHB WH	**45DM01**
Flare	50	PAR20	3½"	3¾"	R551 BL	**45DM18**	R551 WH	**45DM21**
	50, 75	PAR20, PAR30	2⅛"	2⅜"	R541 BL	**45DM30** *	R541 WH	**45DM31** *
	75	PAR30	4⅛"	4⅜"	R552 BL	**45DM22**	R552 WH	**45DM25**
	120	PAR38	6"	5⅞"	R550 BL	**45DM14**	R550 WH	**45DM17**
Gimbaled	50	GU10, MR16, PAR16	2⅛"	2½"	R711 BL	**45DN07**	R711 WH	**45DN06**

Item	L (in.)	BLACK Mfr. Model	BLACK Item No.	WHITE Mfr. Model	WHITE Item No.
Tracks and Accessories					
End Feed Connector and J-Box Cover	4¼	R21 BL	**45DN11**	R21 WH	**45DN13**
Straight Connector	—	R23 BL	**45DN17**	R23 WH	**45DN19**
Adjustable Connector	2¾	R24 BL	**45DN20**	R24 WH	**45DN22**
Floating Electric Feed	4½	R29 BL	**45DN29**	R29 WH	**45DN31**
Conduit Feed Power Connector	3	R34 BL	**45DN32**	R34 WH	**45DN34**
Power Feed Connector	3¼	R38 BL	**45DN41**	R38 WH	**45DN43**
Outlet Box Adapter	—	R40N BL	**45DN47**	R40N WH	**45DN49**
Track Section	43⅛	R 4FT BL	**45DN57**	R 4FT WH	**45DN60**
Track Section	91⅛	R 8FT BL	**45DN65**	R 8FT WH	**45DN68**
Attachment Clip Attach Track to 9⁄16" Drop Tile Ceilings		R37916	**45DN38**	R37916	**45DN38**
Attachment Clip Attach Track to 15⁄16" Flush Tile Ceilings		R37F	**45DN40**	R37F	**45DN40**

**** Max. wattage is 50W for PAR20 and 75W for PAR30.***







LED Track Heads

PHILIPS LIGHTOLIER

- Dimming: Trailing edge (ELV)
- ENERGY STAR® Rated

Precision optics, interchangeable reflectors, and precise beam patterns help you use light to bring out the best qualities in your merchandise, displays, and more.

CorePro LED—Get CBCP performance equivalent to that of most 50 W MR16 halogen luminaires, while consuming 82 % less energy. Units feature a completely integrated driver, thermal management, and unitized optics. The sleek aesthetics and uniform beam help make it an easy choice for a variety of retail, residential, and hospitality accent lighting applications.

Alcyon LED—Compatible with all Monopoint, Multipoint, recessed track, suspension track, suspension stems, and sloped ceiling adapters, as well as Basic, Advent and Radius track systems. Ceiling and horizontal or vertical wall mounted

Shape	Beam Angle	Watts	Color Temp.	CRI	Lumens	H	W	L	Black Item No.	White Item No.
CorePro LED Track Lighting Head										
Gimbaled	23°	9	3000K	80	900	2 7⁄16"	2 1⁄4"	7"	**45LW19**	**45LW18**
	35°	9	3000K	80	900	2 7⁄16"	2 1⁄4"	7"	**45LW17**	**45LW20**
Alcyon LED Vertical Track Lighting Head										
Gimbaled	—	15	3000K	85	1000	5 1⁄4"	3 1⁄2"	6 9⁄16"	—	**45LW21**
	—	28	3000K	80	2000	7"	5 1⁄8"	8 13⁄16"	—	**45LW22**

Item	Beam Angle	L	Mfr. Model	Item No.
For Use With LED Track Head				
LED Flood Reflector	36°	2 15⁄16"	LLAV11RF	**45LW23**
LED Flood Reflector	36°	4 11⁄16"	LLAV12RF	**45LW30**
LED Narrow Flood Reflector	24°	2 15⁄16"	LLAV11RNF	**45LW24**
LED Narrow Flood Reflector	24°	4 11⁄16"	LLAV12RNF	**45LW29**
LED Narrow Spot Reflector	10°	2 15⁄16"	LLAV11RNS	**45LW25**
LED Narrow Spot Reflector	10°	4 11⁄16"	LLAV12RNS	**45LW28**
LED Spot Reflector	18°	2 15⁄16"	LLAV11RS	**45LW26**
LED Spot Reflector	18°	4 11⁄16"	LLAV12RS	**45LW27**


No. 22N961


No. 436P11


No. 420V76


No. 48TK47


No. 420V80


No. 53DK24


No. 53XH73


No. 55MR35


No. 488U47

LED Flat Panel Fixtures

▪ Integral LED driver

Edge-lit panels provide soft, glare-free lighting that is ideal in a variety of public spaces, including retail, schools, and offices. Designed to fit easily into drop ceilings.

GE LIGHTING®

Lumination™ fixtures give off minimal glare, to help enhance productivity. 5-yr. warranty.

Lumination™ LET—Ultrathin fixtures blend in with the ceiling pattern, making them an excellent choice for public spaces. Designed to fit in narrow ceiling plenums. Compliant with the materials restriction requirements of RoHS.

HUBBELL

Fixtures can be recessed, surface, or cable mounted and are suitable for use in damp locations.

LITHONIA

Fixtures have integral T-bar clips that allow installation into 5/16" T-grid ceilings, and a low profile for flexibility in restricted plenum spaces.

LUMAPRO®

Fixtures are compatible with building controls, motion sensors, timers, and daylight harvesting systems.

PHILIPS DAY-BRITE

Designed to provide smooth lighting gradient on the lens surface and ease of installation. Ideal for general lighting applications such as open office, schools, healthcare, and retail.

PILA

Provides a uniformly lit lens for a clean aesthetic appeal, and even distribution of light to the space to minimize the number of light points needed.

Nominal Size	Max. Fixture Wattage	Fixture Voltage	Lumens Per Watt	Lumens	Color Index	Color Temp.	Dimmable	Fixture Rated Life	Emergency Back Up Battery	H	Item No.
GE Lighting											
Lumination™ LET Series											
1 ft. x 4 ft.	47.0	120 to 277	113.5	4200	90.0	3500K	Yes	50,000 hr.	No	2½"	**22N964**
	47.0	120 to 277	113.5	4200	90.0	4000K	Yes	50,000 hr.	No	2½"	**22N965**
2 ft. x 2 ft.	42.0	120 to 277	109.6	4000	90.0	3500K	Yes	50,000 hr.	No	2½"	**22N963**
	42.0	120 to 277	109.6	4000	90.0	4000K	Yes	50,000 hr.	No	2½"	**22N961**
	42.0	120 to 277	106.6	4000	90.0	4000K	Yes	50,000 hr.	Yes	2½"	**48TK45**
	42.0	120 to 277	109.6	4000	90.0	3500K	Yes	50,000 hr.	Yes	2½"	**48TK46**
2 ft. x 4 ft.	34.0	120 to 277	124.0	4200	90.0	4100K	Yes	50,000 hr.	No	2½"	**436P11**
	34.5	120 to 277	124.0	4200	90.0	3000K	Yes	50,000 hr.	No	2½"	**436P12**
	47.0	120 to 277	113.5	4200	90.0	4000K	Yes	50,000 hr.	No	2½"	**48TK47**
	47.0	120 to 277	113.5	4200	90.0	3500K	Yes	50,000 hr.	No	2½"	**48TK48**
Hubbell Lighting - Columbia											
CFP Series											
1 ft. x 4 ft.	50.0	100 to 277	117.0 to 125.0	5500	80.0	4000K	Yes	60,000 hr.	No	1⅝"	**56DZ72**
	50.0	100 to 277	117.0, 121.0, 125.0	5500, 4100, 3400	80.0	3500K	Yes	60,000 hr.	No	1⅝"	**56FH43**
2 ft. x 2 ft.	40.0	100 to 277	108.0 to 115.0	4000	80.0	4000K	Yes	60,000 hr.	No	1⅝"	**56DZ73**
	40.0	100 to 277	115.0, 113.0, 108.0	4000, 3300, 2800	80.0	3500K	Yes	60,000 hr.	No	1⅝"	**56FH44**
2 ft. x 4 ft.	50.0	100 to 277	122.0 to 128.0	5500	80.0	4000K	Yes	60,000 hr.	No	1⅝"	**56DZ74**
	50.0	100 to 277	128.0, 125.0, 122.0	5500, 4100, 3400	80.0	3500K	Yes	60,000 hr.	No	1⅝"	**56FH45**
	56.0	100 to 277	132.0	7500	80.0	3500K	Yes	60,000 hr.	No	1⅝"	**56FH46**
	56.0	100 to 277	133.0	7500	80.0	4000K	Yes	60,000 hr.	No	1⅝"	**56FH47**
Lithonia Lighting											
CPANL Series											
1 ft. x 4 ft.	39.0	120 to 277	118.0	4400	80.0	3500K	Yes	60,000 hr.	No	1¼"	**54XM22**
2 ft. x 2 ft.	39.0	120 to 277	118.0	4400	80.0	3500K	Yes	60,000 hr.	No	1¼"	**54XM23**
2 ft. x 4 ft.	52.0	120 to 277	119.0	6000	80.0	3500K	Yes	60,000 hr.	No	1¼"	**54XM24**
EPANL Series											
1 ft. x 4 ft.	31.0	120 to 277	127.0	3922	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V73**
	31.0	120 to 277	127.0	3857	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V75**
	38.5	120 to 277	114.0	4397	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V74**
	38.6	120 to 277	101.0	3905	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V72**
2 ft. x 2 ft.	26.0	120 to 277	129.0	3357	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V77**
	26.0	120 to 277	130.0	3361	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V79**
	31.0	120 to 277	113.0	3479	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V78**
	32.0	120 to 277	105.0	3285	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V76**
2 ft. x 4 ft.	31.0	120 to 277	130.0	3953	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V81**
	31.0	120 to 277	131.0	4013	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V83**
	39.0	120 to 277	104.0	4039	80.0	3500K	Yes	60,000 hr.	No	2 3/16"	**420V80**
	39.0	120 to 277	112.0	4351	80.0	4000K	Yes	60,000 hr.	No	2 3/16"	**420V82**
LumaPro											
2 ft. x 2 ft.	30.0	120 to 277	118.0	3600	80.0	3500K	Yes	50,000 hr.	No	2¼"	**53XH70**
	30.0	120 to 277	120.0	3680	80.0	3500K	Yes	50,000 hr.	No	2¼"	**53DK24**
	35.0	120 to 277	127.0	4440	80.0	3500K	Yes	50,000 hr.	No	2¼"	**53XH71**
	35.0	120 to 277	127.0	4550	80.0	4100K	Yes	50,000 hr.	No	2¼"	**53XH72**
2 ft. x 4 ft.	40.0	120 to 277	118.0	4440	80.0	3500K	Yes	50,000 hr.	No	2¼"	**53XH73**
	40.0	120 to 277	121.0	4640	80.0	4100K	Yes	50,000 hr.	No	2¼"	**53XH74**
	48.0	120 to 277	129.0	5700	80.0	3500K	Yes	50,000 hr.	No	2¼"	**53XH75**
	48.0	120 to 277	130.0	5810	80.0	4100K	Yes	50,000 hr.	No	2¼"	**53XH76**
Philips Day-Brite											
FXP Series											
2 ft. x 2 ft.	32.0	120 to 277	113.0	3800	80.0	3500K	Yes	62,000 hr.	No	1 5/16"	**310T28**
	32.0	120 to 277	115.0	3800	80.0	4000K	—	—	No	1 5/16"	**310T29**
2 ft. x 4 ft.	38.0	120 to 277	112.0	4200	80.0	3500K	Yes	85,000 hr.	No	1 5/16"	**310T30**
	38.0	120 to 277	110.0	4200	80.0	4000K	—	—	No	1 5/16"	**310T31**
Pila											
BP Series											
2 ft. x 2 ft.	38.0	100 to 277	79.0	3000	80.0	3500K	Yes	50,000 hr.	No	—	**55MR35**
	38.0	100 to 277	79.0	3000	80.0	4000K	Yes	50,000 hr.	No	—	**55MR36**
2 ft. x 4 ft.	48.0	100 to 277	100.0	4800	80.0	3500K	Yes	50,000 hr.	No	—	**55MR37**
	48.0	100 to 277	100.0	4800	80.0	4000K	Yes	50,000 hr.	No	1 31/32"	**55MR38**



No. 53XY15



No. 53KC50



No. 454Z96

LED Troffer Retrofit Kits

GE—Upgrade your existing linear fluorescent fixtures to high-efficiency LED and reduce both energy usage and maintenance costs. Drivers and internal components can be easily accessed via a drop down door. Suitable for general lighting applications in dry environments
- **Rated life: 50,000 hr.**
- **Ambient temp. range: 0° to 104°F**
- **LED 0-10V dimming**

Hubbell—GORK Series Retrofit Kits provide a low-cost LED retrofit for 2-ft. x 2-ft. or 2-ft. x 4-ft. prismatic fluorescent troffers, and can be installed in just 5 minutes. Kit includes pre-wired LED boards and driver.
- **Rated life: 60,000 hr.**
- **Ambient temp. range: -20° to 25°C**
- **LED 0 to 10V dimming**

Lithonia Lighting—Series relights renovate installed recessed fluorescent systems to improve energy efficiency. An impact-modified clear acrylic diffuser provides shielding and wide light distribution. Suitable for damp location installations. UL and C-UL Classified for use in recessed fluorescent light fixtures.
- **Rated life: 50,000 hr.**
- **Ambient temp. range: 0° to 104°F**
- **LED 0-10V dimming**

LumaPro®—For use with existing recessed troffer fixtures. Kits include light engine with heat sink, driver, and mounting hardware.
- **Rated life: 50,000 hr.**
- **Ambient temp. range: -14° to 120°F**

Philips EvoKit—Designed to replace any 2-ft. x 2-ft. or 2-ft. x 4-ft. fluorescent configuration providing the appearance of a new fixture with the energy saving performance of LED. Dimmable volumetric-type troffer enables compliance with ASHRAE and T24.
- **Rated life: 70,000 hr.**
- **Ambient temp. range: 0° to 95°F**
- **LED 0 to 10V dimming**

Nominal Size	Max. Fixture Wattage	Voltage	Color Index	Dimmable	H	Color Temperature 3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.	5000K Lumens	5000K Lumens Per Watt	5000K Item No.
GE Lighting														
Lumination™ LVR Series														
2 ft. x 2 ft.	19.0	120/277	80.0	Yes	2½"	2000	105.0	**48TK59**	2000	105.0	**48TK60**	—	—	—
2 ft. x 4 ft.	39.5	120/277	80.0	Yes	2½"	4000	101.0	**48TK61**	4000	101.0	**48TK62**	—	—	—
Lumination™ RUL Series														
2 ft. x 2 ft.	30.0	120/277	80.0	Yes	1 29/32"	3600	112.0	**406F19**	3600	118.0	**406F20**	3600	124.0	**406F21**
2 ft. x 4 ft.	42.0	120/277	80.0	Yes	1 29/32"	4200	120.0	**406F22**	4500	124.0	**406F23**	4500	131.9	**406F24**
Hubbell Lighting - Columbia														
CTK Series														
2 ft. x 2 ft.	25.0	120 to 277	80.0	Yes	2 13/32"	—	—	—	3300	126.0	**56FH51**	—	—	—
	32.0	120 to 277	80.0	Yes	2 13/32"	—	—	—	4400	128.0	**56FH52**	—	—	—
2 ft. x 4 ft.	28.0	120 to 277	80.0	Yes	2 13/32"	—	—	—	3500	127.0	**56FH53**	—	—	—
	35.0	120 to 277	80.0	Yes	2 13/32"	—	—	—	4000	129.0	**56FH54**	—	—	—
GORK Series														
2 ft. x 2 ft.	18.0	120 to 277	80.0	Yes	—	1900	106.0	**53XY15**	1900	106.0	**53XY19**	—	—	—
	24.0	120 to 277	80.0	Yes	—	2480	105.0	**53XY16**	2500	106.0	**53XY20**	—	—	—
	31.0	120 to 277	80.0	Yes	—	3360	108.0	**53XY17**	3400	109.0	**53XY21**	—	—	—
2 ft. x 4 ft.	31.0	120 to 277	80.0	Yes	—	3880	127.0	**53XY23**	3900	129.0	**53XY26**	—	—	—
	34.0	120 to 277	80.0	Yes	—	4300	127.0	**53XY24**	4300	127.0	**53XY27**	—	—	—
	38.0	120 to 277	80.0	Yes	—	4700	123.0	**53XY25**	4800	125.0	**53XY28**	—	—	—
SLK Series														
2 ft. x 2 ft.	29.0	120/277	83.0	Yes	3⅛"	—	—	—	3400	120.0	**488U91**	—	—	—
2 ft. x 4 ft.	32.0	120 to 277	83.0	Yes	3⅛"	5600	127.0	**56FH68**	—	—	—	—	—	—
	39.0	120/277	83.0	Yes	3⅛"	—	—	—	5000	128.0	**488U92**	—	—	—
Lithonia Lighting														
2BLTR Series LED Relight Series														
1 ft. x 4 ft.	14.8	120 to 277	80.0	Yes	3¾"	1888	127.6	**53KC66**	1918	129.6	**53KC71**	—	—	—
	22.6	120 to 277	80.0	Yes	3¾"	2889	127.8	**53KC67**	2935	129.9	**53KC72**	—	—	—
	32.5	120 to 277	80.0	Yes	3¾"	4072	125.3	**53KC68**	4138	127.3	**53KC73**	—	—	—
	38.7	120 to 277	80.0	Yes	3¾"	4839	125.0	**53KC69**	4916	127.0	**53KC74**	—	—	—
	48.3	120 to 277	80.0	Yes	3¾"	5977	123.7	**53KC70**	6072	125.7	**53KC75**	—	—	—
2 ft. x 2 ft.	15.3	120 to 277	80.0	Yes	3"	1951	127.5	**53KC60**	—	—	—	—	—	—
	15.6	120 to 277	80.0	Yes	3"	—	—	—	2084	133.6	**53KC63**	—	—	—
	25.9	120 to 277	80.0	Yes	3"	3351	129.4	**53KC61**	3404	131.4	**53KC64**	—	—	—
	31.1	120 to 277	80.0	Yes	3"	4038	129.8	**53KC62**	4102	131.9	**53KC65**	—	—	—
2 ft. x 4 ft.	22.7	120 to 277	80.0	Yes	3"	2932	129.2	**53KC50**	2979	131.2	**53KC55**	—	—	—
	34.0	120 to 277	80.0	Yes	3"	3945	116.0	**53KC51**	4023	130.0	**53KC56**	—	—	—
	37.6	120 to 277	80.0	Yes	3"	—	—	—	4989	132.7	**53KC57**	—	—	—
	45.0	120 to 277	80.0	Yes	3"	5121	114.0	**53KC52**	—	—	—	—	—	—
	46.4	120 to 277	80.0	Yes	3"	5956	128.4	**53KC53**	6051	130.4	**53KC58**	—	—	—
	58.7	120 to 277	80.0	Yes	3"	7173	122.2	**53KC54**	7287	124.1	**53KC59**	—	—	—
2GTL Series LED Relight Series														
2 ft. x 2 ft.	19.7	120 to 277	82.0	Yes	3¾"	1944	99.0	**35LM28**	1990	101.0	**35LM29**	—	—	—
	27.8	120 to 277	82.0	Yes	3¾"	2541	91.0	**35LM30**	2603	94.0	**35LM31**	—	—	—
2 ft. x 4 ft.	38.5	120 to 277	82.0	Yes	3¾"	—	—	—	4402	114.0	**35LM25**	—	—	—
	38.6	120 to 277	82.0	Yes	3¾"	4278	111.0	**35LM24**	—	—	—	—	—	—
VT Series Volumetric LED Troffer Series														
2 ft. x 2 ft.	20.0	120 to 277	82.0	Yes	3¾"	1931	99.0	**46F517**	—	—	—	—	—	—
	35.0	120 to 277	82.0	Yes	3¾"	3300	96.0	**46F516**	3300	98.0	**46F519**	—	—	—
	35.0	120 to 277	82.0	Yes	3¾"	—	—	—	3300	98.0	**46F521**	—	—	—
2 ft. x 4 ft.	47.0	120 to 277	82.0	Yes	3¾"	4800	105.0	**46F515**	4800	107.0	**46F520**	—	—	—
	47.0	120 to 277	82.0	Yes	3¾"	4800	105.0	**46F514**	4800	107.0	**46F518**	—	—	—
LumaPro														
1 ft. x 4 ft.	55.0	120/277	85.0	—	2"	—	—	—	5622	101.0	**30UH96** *	—	—	—
Philips														
EvoKit Series														
2 ft. x 2 ft.	24.0	120 to 277	80.0	Yes	3"	—	—	—	3200	132.0	**454Z94**	—	—	—
	24.0	120 to 277	80.0	Yes	3"	—	—	—	3200	129.0	**54ZE78**	—	—	—
	25.0	120 to 277	80.0	Yes	3"	3200	129.0	**454Z93**	—	—	—	—	—	—
	29.0	120 to 277	80.0	Yes	3"	—	—	—	3200	105.0	**54ZE76**	—	—	—
2 ft. x 4 ft.	22.0	120 to 277	80.0	No	3"	3000	135.0	**454Z91**	3000	137.0	**454Z92**	—	—	—
	23.0	120 to 277	80.0	No	3"	3000	131.0	**454Z95**	3000	133.0	**454Z96**	—	—	—
	26.0	120 to 277	80.0	Yes	3"	—	—	—	3600	131.0	**54ZE81**	—	—	—
	27.0	120 to 277	80.0	Yes	3"	3600	132.0	**54ZE79**	—	—	—	—	—	—
	30.0	120 to 277	80.0	Yes	3"	—	—	—	4200	139.0	**54ZE77**	—	—	—
	32.0	120 to 277	80.0	No	3"	4200	132.0	**454Z97**	4200	134.0	**454Z98**	—	—	—
	32.0	120 to 277	80.0	Yes	3"	4200	131.0	**54ZE80**	—	—	—	—	—	—

** 4100K color temp.*

GE current, a Daintree company | HUBBELL® | JUNO Recessed and Trac Lighting

LED Recessed Troffers


No. 417Y26


No. 53VU40


No. 53VY25

- Rated life: 50,000 hr., except Hubbell are 60,000 hr.
- LED 0-10V dimming
- Dimmable
- 5 yr. warranty
- Ambient temp. range: 0° to 104°F

Make the switch to LED lighting for reliable lighting that provides you with significant savings in both energy usage and maintenance costs.

GE—Lumination™ luminaires are specifically designed to fit into T-grid drop ceilings. The smart, attractive design gives you below-ceiling access to the light engine and LED driver, for easy maintenance. LBT Series units are designed for retrofit applications. LBV Series units feature an attractive, gently curved lens, and can be used in either retrofit or new construction installations.

Juno®—Lightweight, cold-rolled steel troffers are easy to install in any standard T-Bar or screw-slot grids in either new construction or remodel applications. The easily removable lens gives you quick access to LED boards and driver. ETL listed for damp locations.

Hubbell®—LCAT Series architectural troffers are suitable for classroom, office, retail, and health care applications. LSTE Series provide uniform illumination at mounting heights as low as 8 ft. LTRX Series and MDM Series are designed to provide both even illumination and critical examination lighting in medical examination rooms.

Nominal Size	Watts	Voltage	CRI	LED Replacement For	Height	Troffer Style	Color Temperature 3500K Lumens	3500K Lumens Per Watt	3500K Item No.		Color Temperature 4000K Lumens	4000K Lumens Per Watt	4000K Item No.	Color Temperature 5000K Lumens	5000K Lumens Per Watt	5000K Item No.
GE Current																
LPL Series																
2 ft. x 2 ft.	39.5	100 to 277	80.0	3 Lamp T8 32W	—	—	4500	114.0	**55GZ29**		4500	114.0	**55GZ30**	—	—	—
2 ft. x 4 ft.	44.0	100 to 277	80.0	3 Lamp T8 32W	—	—	4500	118.0	**55GZ31**		4500	118.0	**55GZ32**	—	—	—
GE Lighting																
LBT Series																
2 ft. x 2 ft.	34.0	120 to 277	80.0	2 Lamp T8 17W	3½"	Lay-In	3300	127.0	**48TK50**		3300	104.0	**48TK49**	—	—	—
2 ft. x 4 ft.	43.0	120 to 277	80.0	2 Lamp T8	3½"	Lay-In	4800	133.0	**48TK54**		4800	109.0	**48TK53**	—	—	—
LBV Series																
2 ft. x 2 ft.	30.0	120 to 277	90.0	U-Bend	4½"	Basket	3000	100.0	**417Y27**		3300	110.0	**417Y26**	—	—	—
2 ft. x 4 ft.	42.0	120 to 277	90.0	2 Lamp LFL	4½"	Basket	4900	117.0	**417Y31**		—	—	—	—	—	—
	46.0	120 to 277	90.0	2 Lamp LFL	4½"	Basket	—	—	—		5000	119.0	**417Y30**	—	—	—
LVT Series																
1 ft. x 4 ft.	35.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	4000	114.0	**52YK50**		4000	114.0	**52YK51**	—	—	—
2 ft. x 2 ft.	16.5	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	2000	121.2	**52YK23**		2000	121.2	**52YK27**	2000	121.2	**52YK31**
	29.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	3300	113.8	**52YK24**		3300	113.8	**52YK28**	3300	113.8	**52YK32**
	37.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	4000	108.1	**52YK25**		4000	108.1	**52YK29**	4000	108.1	**52YK33**
	41.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	5000	122.0	**52YK26**		5000	122.0	**52YK30**	5000	122.0	**52YK34**
2 ft. x 4 ft.	24.5	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	3000	122.4	**52YK35**		3000	122.4	**52YK40**	3000	122.4	**52YK45**
	33.5	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	4000	119.4	**52YK36**		4000	119.4	**52YK41**	4000	119.4	**52YK46**
	43.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	4800	111.6	**52YK37**		4800	111.6	**52YK42**	4800	111.6	**52YK47**
	47.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	6000	127.7	**52YK38**		6000	127.7	**52YK43**	6000	127.7	**52YK48**
	60.0	120 to 277	80.0	2 Lamp T8	2 23/32"	Lay-In	7200	120.0	**52YK39**		7200	120.0	**52YK44**	7200	120.0	**52YK49**
Hubbell Lighting - Columbia																
CBT Series																
2 ft. x 2 ft.	40.0	120 to 277	80.0	3 Lamp T8	1¾"	—	4400, 3300, 2750	111.0, 119.0, 122.0	**56FH39**		4400, 3300, 2750	113.0, 121.0, 121.0	**56FH40**	—	—	—
2 ft. x 4 ft.	50.0	120 to 277	80.0	3 Lamp T8	1¾"	—	5500, 4400, 3300	118.0, 125.0, 132.0	**56FH41**		5500, 4400, 3300	120.0, 127.0, 133.0	**56FH42**	—	—	—
LCAT Series																
1 ft. x 4 ft.	36.0	120 to 277	83.0	2 Lamp LFL	4"	Lay-In	4300	122.0	**53VU40**	*	4500	127.0	**53VU53**	5000	138.0	**53VX38**
	36.0	120 to 277	83.0	2 Lamp LFL	4"	Lay-In	4500	125.0	**53VU45**		—	—	—	—	—	—
	38.3	120 to 277	83.0	2 Lamp LFL	4"	Lay-In	4800	126.0	**53VU49**		4900	129.0	**53VX35**	—	—	—
	44.0	120 to 277	83.0	2 Lamp LFL	4"	Lay-In	5400	123.0	**53VU42**	*	5600	129.0	**53VX36**	—	—	—
	44.0	120 to 277	83.0	2 Lamp LFL	4"	Lay-In	5500	127.0	**53VU50**		—	—	—	—	—	—
2 ft. x 2 ft.	22.6	120 to 277	83.0	U-Bend	4"	Lay-In	2770	123.0	**53VX45**		2800	124.0	**53VX53**	—	—	—
	28.7	120 to 277	83.0	U-Bend	4"	Lay-In	—	—	—		3470	121.0	**53VX55**	—	—	—
	29.0	120 to 277	83.0	U-Bend	4"	Lay-In	3259	116.0	**53VX42**		—	—	—	—	—	—
	29.0	120 to 277	83.0	U-Bend	4"	Lay-In	3400	119.0	**53VX47**		—	—	—	—	—	—
	32.0	120 to 277	83.0	U-Bend	4"	Lay-In	3700	117.0	**53VX50**		—	—	—	—	—	—
	32.0	120 to 277	83.0	U-Bend	4"	Lay-In	3600	113.0	**53VX43**	*	3760	118.0	**53VX58**	4100	129.0	**53VX61**
	38.6	120 to 277	83.0	U-Bend	4"	Lay-In	4400	111.0	**53VX52**		4460	116.0	**53VX60**	—	—	—
2 ft. x 4 ft.	36.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	4260	118.0	**53VX64**	*	4465	124.0	**53VX77**	4860	135.0	**53VX86**
	36.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	4400	122.0	**53VX69**		4465	124.0	**53VX76**	—	—	—
	39.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	4900	127.0	**53VX63**		4990	129.0	**53VX81**	5400	139.0	**53VX88**
	39.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	4900	127.0	**53VX73**		—	—	—	—	—	—
	44.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	5400	124.0	**53VX66**	*	5700	129.0	**53VX83**	—	—	—
	44.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	5600	127.0	**53VX74**		—	—	—	—	—	—
	59.0	120 to 277	83.0	4 Lamp LFL	4"	Lay-In	—	—	—		7300	124.0	**53VX85**	—	—	—
LSER Series																
2 ft. x 2 ft.	31.0	120 to 277	80.0	U-Bend	4⅜"	Lay-In	3440	110.0	**53VY03**		3500	111.0	**53VY06**	—	—	—
2 ft. x 4 ft.	42.0	120 to 277	80.0	4 Lamp LFL	4⅜"	Lay-In	4800	115.0	**53VY10**		—	—	—	—	—	—
	50.0	120 to 277	80.0	4 Lamp LFL	4⅜"	Lay-In	5600	112.0	**53VY13**		5700	113.0	**53VY15**	—	—	—
LSTE Series																
2 ft. x 2 ft.	40.0	120 to 277	80.0	U-Bend	4¾"	Lay-In	4800	88.0	**53VX92**		—	—	—	—	—	—
	42.0	120 to 277	80.0	U-Bend	4¾"	Lay-In	3650	88.0	**53VX93**		—	—	—	—	—	—
2 ft. x 4 ft.	50.0	120 to 277	80.0	4 Lamp LFL	4¾"	Lay-In	4900	100.0	**53VX98**		4900	100.0	**53VY01**	—	—	—
LTRX Series																
2 ft. x 2 ft.	40.0	120 to 277	90.0	4 Lamp LFL	4¾"	Lay-In	4200	104.0	**53VY20**		—	—	—	—	—	—
	40.0	120 to 277	90.0	4 Lamp LFL	4¾"	Lay-In	4200	104.0	**53VY19**	*	4200	104.0	**53VY21**	—	—	—
	81.0	120 to 277	90.0	6 Lamp LFL	4¾"	Lay-In	8300	103.0	**53VY23**		—	—	—	—	—	—
2 ft. x 4 ft.	81.0	120 to 277	90.0	6 Lamp LFL	4¾"	Lay-In	8300	103.0	**53VY22**	*	—	—	—	—	—	—
	81.0	120 to 277	90.0	3 Lamp T8	4¾"	Lay-In	—	—	—		8300	103.0	**53VY24**	—	—	—
MDM Series																
2 ft. x 4 ft.	146.0	277	90.0	8 Lamp LFL	4½"	Lay-In	13,500	93.0	**53VY26**		—	—	—	—	—	—
	146.0	120	90.0	8 Lamp LFL	4½"	Flange	13,500	93.0	**53VY27**		—	—	—	—	—	—
	146.0	277	90.0	8 Lamp LFL	4½"	Flange	13,500	93.0	**53VY28**		—	—	—	—	—	—
	146.0	120	90.0	8 Lamp LFL	4½"	Lay-In	13,500	93.0	**53VY25**		—	—	—	—	—	—
	189.0	277	90.0	8 Lamp LFL	4½"	Lay-In	14,400	77.0	**53VY30**		—	—	—	—	—	—
	189.0	120	90.0	8 Lamp LFL	4½"	Flange	14,400	77.0	**53VY31**		—	—	—	—	—	—
	189.0	277	90.0	8 Lamp LFL	4½"	Flange	14,400	77.0	**53VY32**		—	—	—	—	—	—
	189.0	120	90.0	8 Lamp LFL	4½"	Lay-In	14,400	77.0	**53VY29**		—	—	—	—	—	—
VERSIFY™ Series																
2 ft. x 2 ft.	24.0	120 to 277	80.0	2 U-Bend Lamp T8	2"	—	3200	134.0	**56DZ76**		3300	136.0	**56DZ77**	—	—	—

** 3000K color temp. † 4100K color temp.*

CONTINUED

CONTINUED

GE current, a Daintree company

HUBBELL

JUNO Recessed and Trac Lighting


No. 45AZ94

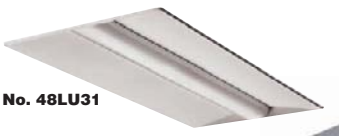
LED Recessed Troffers

Nominal Size	Watts	Voltage	CRI	LED Replacement For	Height	Troffer Style	Color Temperature 3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.	5000K Lumens	5000K Lumens Per Watt	5000K Item No.
2 ft. x 4 ft.	37.0	120 to 277	80.0	3 Lamp T8	2"	—	4800	131.0	**56DZ78**	4900	133.0	**56DZ79**	—	—	—
Juno Lighting Group - Indy															
Indy X-Series															
1 ft. x 4 ft.	36.0	120 to 277	80.0	60W	3⅞"	Basket	3900	108.0	**45CA06**	4197	104.0	**45CA15** †	4353	124.0	**45AZ97**
	40.3	120 to 277	80.0	60W	3⅞"	Basket	4017	99.7	**45CA21** *	—	—	—	—	—	—
	53.0	120 to 277	80.0	60W	3⅞"	Basket	5500	116.0	**45CA32**	5984	104.0	**45CA20** †	5500	116.0	**45CA08**
	57.4	120 to 277	80.0	60W	3⅞"	Basket	5726	99.7	**45CA22** *	—	—	—	—	—	—
2 ft. x 2 ft.	36.0	120 to 277	80.0	60W	3⅞"	Basket	3900	115.0	**45CA18**	4161	116.0	**45CA31** †	4313	122.0	**45CA11**
	38.7	120 to 277	80.0	60W	3⅞"	Basket	3857	99.7	**45AZ94** *	—	—	—	—	—	—
2 ft. x 4 ft.	36.0	120 to 277	80.0	60W	3⅞"	Basket	3900	113.0	**45CA14**	4197	104.0	**45CA03** †	4305	123.0	**45AZ99**
	40.3	120 to 277	80.0	60W	3⅞"	Basket	4017	99.7	**45AZ95** *	—	—	—	—	—	—
	53.0	120 to 277	80.0	60W	3⅞"	Basket	5500	108.0	**45CA02**	6103	117.0	**45CA07** †	5500	105.0	**45CA25**
	57.4	120 to 277	80.0	60W	3⅞"	Basket	5727	99.7	**45CA01** *	—	—	—	—	—	—

** 3000K color temp. † 4100K color temp.*


No. 45KJ03


No. 31A160


No. 48LU31


No. 4ZCZ8

Nominal Size	Wattage	Color Index	Dimmable	Rated Life	H	Troffer Style	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.
Daybrite												
EvoGrid Series												
2 ft. x 2 ft.	30.0	80.0	Yes	80,000 hr.	2¾"	Lay-In	—	—	— —	3000	100.0	**45KJ03**
2 ft. x 4 ft.	41.0	80.0	Yes	80,000 hr.	2¾"	Lay-In	—	—	— —	4300	104.9	**45KJ04**
	55.0	80.0	Yes	80,000 hr.	2¾"	Lay-In	—	—	— —	5400	98.2	**45KJ05**
	83.0	80.0	Yes	80,000 hr.	2¾"	Lay-In	—	—	— —	7400	89.2	**45KJ06**
Lithonia Lighting												
ACLED Series												
2 ft. x 2 ft.	29.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	3292	114.0	**11K570**	—	—	— —
2 ft. x 4 ft.	40.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	5046	126.0	**31A160**	—	—	— —
AL Series												
2 ft. x 2 ft.	35.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	3891	111.0	**39F137**	3920	112.0	**39F139**
2 ft. x 4 ft.	40.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	4824	121.0	**39F136**	4858	122.0	**39F138**
Avante® Series												
2 ft. x 2 ft.	36.0	82.0	Yes	60,000 hr.	5½"	Basket	2704	75.0	**39UM49**	2734	76.0	**39UM46**
2 ft. x 4 ft.	48.0	82.0	Yes	60,000 hr.	5½"	Basket	4254	89.0	**39UM48**	4161	87.0	**39UM47**
BLT Series												
1 ft. x 4 ft.	40.0	82.0	Yes	50,000 hr.	2¾"	Basket	4000	107.0	**48LU34**	4000	109.0	**48LU35**
2 ft. x 2 ft.	30.0	82.0	Yes	50,000 hr.	2 13/32"	Basket	3300	108.0	**48LU28**	3300	111.0	**48LU29**
2 ft. x 4 ft.	34.0	82.0	Yes	50,000 hr.	2 13/32"	Basket	4000	116.0	**48LU30**	4000	118.0	**48LU31**
	38.0	82.0	Yes	50,000 hr.	2 13/32"	Basket	4600	118.0	**48LU32**	4600	120.0	**48LU33**
FS Series												
2 ft. x 2 ft.	17.8	82.0	Yes	50,000 hr.	4⅜"	Basket	2273	128.0	**30YH50**	2340	131.0	**30YH51**
	30.2	82.0	No	50,000 hr.	4⅜"	Lay-In	—	—	— —	3863	128.0	**38TA04**
	35.0	82.0	Yes	50,000 hr.	4⅜"	Basket	3300	96.0 to 110.0	**30YH52**	3300	96.0 to 110.0	**30YH53**
	36.5	82.0	Yes	50,000 hr.	4⅜"	Basket	4397	121.0	**30YH54**	4484	122.0	**30YH55**
2 ft. x 4 ft.	25.9	82.0	Yes	50,000 hr.	4⅜"	Basket	3404	131.0	**30YH56**	—	—	— —
	33.3	82.0	No	50,000 hr.	4⅜"	Lay-In	—	—	— —	4450	134.0	**38TA05**
	39.0	82.0	Yes	50,000 hr.	4⅜"	Basket	—	—	— —	4000	102.0 to 119.0	**30YH59**
	46.0	82.0	Yes	50,000 hr.	4⅜"	Basket	4800	100.0 to 116.0	**30YH60**	—	—	— —
GTL Series												
2 ft. x 2 ft.	18.3	82.0	Yes	50,000 hr.	3¼"	Lay-In	2248	122.0	**19YR04**	2338	127.0	**19YR05**
	20.0	82.0	No	50,000 hr.	3¼"	Lay-In	—	—	— —	2000	111.0	**20VC36**
	21.0	82.0	Yes	50,000 hr.	3¼"	Lay-In	2000	95.0	**32PE36**	—	—	— —
	28.6	82.0	Yes	50,000 hr.	3¼"	Lay-In	3360	117.0	**19YR18**	3494	122.0	**19YR19**
	40.0	80.0	Yes	50,000 hr.	3¼"	Lay-In	—	—	— —	3700	98.0	**48H441**
	40.0	84.0	Yes	50,000 hr.	3¼"	Lay-In	3700	94.0	**48H440**	—	—	— —
2 ft. x 4 ft.	23.3	82.0	Yes	50,000 hr.	3¼"	Lay-In	2983	128.0	**19YR06**	—	—	— —
	31.0	82.0	Yes	50,000 hr.	3¼"	Lay-In	—	—	— —	3000	96.0	**19YR07**
	32.0	82.0	Yes	50,000 hr.	3¼"	Lay-In	3000	96.0	**32PE38**	3000	96.0	**32PE39**
	35.7	82.0	Yes	50,000 hr.	3¼"	Lay-In	4777	133.0	**19YR20**	4968	139.0	**19YR21**
	39.0	80.0	Yes	50,000 hr.	3¼"	Lay-In	—	—	— —	4000	110.0	**48H439**
	39.0	82.0	Yes	50,000 hr.	3¼"	Lay-In	4000	105.0	**48H438**	—	—	— —
	48.8	82.0	Yes	50,000 hr.	3¼"	Lay-In	6218	127.0	**19YR22**	6466	132.0	**19YR23**
	53.3	82.0	Yes	50,000 hr.	3¼"	Lay-In	7351	138.0	**19YR24**	7645	143.0	**19YR25**
RTL Series												
2 ft. x 2 ft.	38.0	82.0	Yes	50,000 hr.	3⅛"	Basket	3300	100.0	**4ZCZ8**	—	—	— —
SBS Series												
2 ft. x 2 ft.	29.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	2746	94.0	**39F133**	2766	95.0	**39F135**
2 ft. x 4 ft.	40.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	4242	106.0	**39F132**	4271	106.0	**39F134**
TLED Series												
2 ft. x 2 ft.	29.0	82.0	Yes	50,000 hr.	3¾"	Lay-In	3317	114.0	**11K569**	—	—	— —
2 ft. x 4 ft.	40.0	82.0	Yes	50,000 hr.	3¾"	Basket	4831	121.0	**31A159**	—	—	— —
VT Series												
2 ft. x 2 ft.	26.4	80.0	Yes	60,000 hr.	4⅜"	—	3299	126.0	**54ZY55** —	—	—	— —
2 ft. x 4 ft.	38.5	80.0	Yes	60,000 hr.	4⅜"	—	5238	136.0	**54ZY54** —	—	—	— —
LumaPro												
2 ft. x 2 ft.	34.8	80.0	No	50,000 hr.	3 35/64"	—	3784	109.0	**436R34**	—	—	— —
Philips												
FluxGrid Series												
2 ft. x 2 ft.	33.5	80.0	Yes	85,000 hr.	3"	—	3800	114.0	**210L63** —	3800	114.0	**210L64** —
2 ft. x 4 ft.	33.8	80.0	Yes	70,000 hr.	3"	—	4200	124.0	**210L65** —	4200	124.0	**210L66** —

PHILIPS Day-Brite

LITHONIA LIGHTING

LumaPro

LED Recessed Troffers

- Fixture Voltage 120 to 277

Philips Day-Brite—Architectural-style troffers feature a soft opal diffuser with a large luminous area that helps reduce uncomfortable bright spots that can sometimes be created by standard basket luminaires. The 2.75"D housing requires minimal plenum space and provides convenient access to LED boards from below. 0-10V dimming. cULus Listed for Damp Locations; meets UL 924.

Lithonia Lighting®—Suitable for general ambient lighting in commercial applications. Combine digital LED lighting technologies with high-performance optical design for ambient lighting.

LumaPro®—Cost-effective fixtures are excellent in offices, sorting rooms, cafeterias, lunchrooms, washrooms, and hallways. 0-10V dimming driver is reverse-compatible with 0-10V fluorescent dimmers.

Fluorescent Commercial Recessed Troffers

- 120/277V
- Easily positioned integral T-bar clips secure fixture to T-bar system
- Lamps not included (except No. 3YA10)

T8 electronic ballast systems provide 30% to 40% energy savings when compared to F40T12 magnetic ballast systems. Fixtures with GE UltraStart® ballasts maximize lamp life in frequently switched applications typically associated with the use of sensors and controls.

NOTE: Additional replacement lenses are available on page 440.

PARABOLIC TROFFERS

Provide light control, lamp cutoff, and reduced glare for visual comfort. Black reveal creates a floating louver appearance. Great for use in locker rooms, recreational facilities, and kitchens.

ES8 Series are louvered models that provide a high-performance energy-saving alternative to 3-lamp options. When used in place of parabolics, they can provide up to 44% energy savings.

LENS TROFFERS

Maximize light output for most commercial applications. SP5 and SP8 series include program start ballasts, which should be used when lighting controls are needed. Low-profile design is suited to restrictive plenum applications. Smooth, hemmed edges make handling easier. Use in offices, schools, healthcare facilities, and retail applications.

Labor-Saving Tandem Fixture, No. 7AA50

2 fixtures work in tandem: snap-together design uses half the connections, wiring, and components of 2 separate fixtures. Wiring connections for both are located at 1 access plate. Separate ballasts allow turning on only a portion of the lights, conserving energy.

LITHONIA LIGHTING



No. 5YA50



No. 1THW3



No. 2MZJ5



No. 4LB82

Lamp Qty.	Lamp Type	Lamp Watts	Fixture Wattage	Suggested Lamp Item No.	Ballast Quantity	Description/ Special Features	L	W	H	Series	Item No.
Parabolic, Electronic GE Ultra Start											
2	F32T8	32W	56W	4WW60	1	Silver 12-Cell Low Iridescent, 0.95 Ballast Factor	48"	24"	4½"	2PM3N	**6RPZ2**
	F17T8	17W	48W	3GXP8	1	Silver 9-Cell Low Iridescent, 0.95 Ballast Factor	24"	24"	4½"	2PM3N	**6RPZ1**
3	F32T8	32W	56W	4WW60	1	Silver 18-Cell Low Iridescent, 0.95 Ballast Factor	48"	24"	4½"	2PM3N	**6RPZ3**
	F32T8	32W	56W	4WW60	2	Silver 18-Cell Low Iridescent, 0.95 Ballast Factor	48"	24"	4½"	2PM3N	**6RPZ4**
Parabolic, Electronic Instant Start											
	F31T8U6	32W	59W	2ETT9	1	Specular Silver 12-Cell Low Iridescent, Light Control	24"	24"	6"	PM0	**2MZK5**
	F32T8	32W	59W	4WW60	1	Silver 12-Cell Low Iridescent, Grid Trim Type and Static (No Air Function, Matching Appearance)	48"	24"	4½"	2PM3N	**1PLR2**
	F32T8	32W	59W	4WW60	1	Silver 18-Cell Low Iridescent	48"	24"	4½"	2PM3N	**2MZK2**
2	F32T8	32W	59W	4WW60	1	Silver 8-Cell Low Iridescent, Grid Trim Type and Static (No Air Function, Matching Appearance)	48"	12"	7¼"	PM3	**5YA50**
	F32T8U6	32W	59W	2ETT6	1	Silver 9-Cell Low Iridescent, Grid Trim Type and Static (No Air Function, Matching Appearance)	24"	24"	4½"	PM3N	**1PLR3**
	F32T8U6	32W	59W	2ETT6	1	Silver 16-Cell Low Iridescent, Grid Trim Type and Static (No Air Function, Matching Appearance)	24"	24"	4½"	2PM3N	**1THU3**
	F32T8U6	32W	59W	2ETT6	1	Silver 9-Cell Low Iridescent, Air and Closure Strips	24"	24"	4½"	2PM3N	**2MZK3**
	F17T8	17W	48W	3GXP8	1	Silver 9-Cell Low Iridescent, Grid Trim Type, Static (No Air Function, Matching Appearance) and One 3-Lamp Ballast	24"	24"	4½"	2PM3N	**1THR3**
	F32T8	32W	85W	4WW60	1	Silver 18-Cell Low Iridescent, Grid Trim Type, Static (No Air Function, Matching Appearance) and One 3-Lamp Ballast	48"	24"	4½"	PM3N	**1PLR4**
3	F32T8	32W	85W	4WW60	1	Silver 18-Cell Low Iridescent, Emergency Battery Pack, Grid Trim Type, Static (No Air Function, Matching Appearance), One 3-Lamp Ballast and Emergency Battery Pack	48"	24"	4½"	2PM3N	**1THU4**
	F32T8	32W	85W	4WW60	1	Silver 18-Cell Low Iridescent, 6-ft. Whip, Grid Trim Type, Static (No Air Function, Matching Appearance), One 3-Lamp Ballast, and 6' Prewire, ⅜" Dia., 18-Gauge, 3 Wires	48"	24"	4½"	2PM3N	**1THU6**
	F32T8	32W	85W	4WW60	1	Silver 18-Cell Low Iridescent, Air and Closure Strips	48"	24"	4½"	2PM3N	**2MZK4**
	F32T8	32W	85W	4WW60	1	Specular Silver 27-Cell Low Iridescent, Light Control	48"	24"	6"	PM0	**2MZK6**
	F32T8	32W	85W	LPGM841	1	Specular Silver 27-Cell Low Iridescent, Light Control	48"	24"	6"	PM0	**40L073**
	F32T8	32W	89W	4WW60	2	Silver 18-Cell Low Iridescent, Grid Trim Type and Static (No Air Function, Matching Appearance)	48"	24"	4½"	2PM3N	**1VNT9**
4	F32T8	32W	112W	4WW60	1	Silver 32-Cell Low Iridescent, Grid Trim Type, Static (No Air Function, Matching Appearance) and One 4-Lamp Ballast	48"	24"	4½"	2PM3N	**1THU5**
Parabolic, Electronic Instant Start, High Efficiency											
	F17T8	17W	41W	3GXP8	1	White 6-Cell Louver	24"	24"	3 11/16"	ES8	**1THW3**
	F32T8	32W	56W	4WW60	1	White 12-Cell Louver	48"	24"	3 11/16"	ES8	**1THW4**
2	F32T8	32W	48W	4WW60	1	White 12-Cell Louver	48"	24"	3 11/16"	ES8	**2MZJ2**
	F32T8	32W	56W	4WW60	1	White 12-Cell Louver, Bi-Level Dimming	48"	24"	3 11/16"	ES8	**2MZJ3**
	F32T8	32	55	4WW60	1	White 12-Cell Louver, Surface Mount	48"	24"	4"	ES8	**2MZJ5**
	F32T8U6	32W	53W	2ETT9	1	White 6-Cell Louver	24"	24"	3 11/16"	ES8	**2MZJ4**
Low Profile, Electronic Instant Start											
2	F32T8	32W	59W	LPGM841	1	Acrylic Lens	48"	24"	3 3/16"	2GT8	**40L070**
3	F17T8	17W	48W	LPGM841	1	Acrylic Lens, One 3-Lamp Ballast	24"	24"	3 3/16"	2GT8	**40L071**
	F32T8	32W	85W	LPGM841	1	Acrylic Lens, One 3-Lamp Ballast	48"	24"	3 3/16"	2GT8	**40L069**
Lens, Electronic GE Ultra Start											
2	F32T8	32W	56W	4WW60	1	Acrylic Prismatic Refractor, 0.95 Ballast Factor	48"	24"	3 3/16"	2GT8	**6RPY7**
	F17T8	17W	48W	3GXP8	1	Acrylic Prismatic Refractor, 0.95 Ballast Factor	24"	24"	3 3/16"	2GT8	**6RPY6**
3	F32T8	32W	85W	4WW60	1	Acrylic Prismatic Refractor, 0.95 Ballast Factor	48"	24"	3 3/16"	2GT8	**6RPY8**
	F32T8	32W	85W	4WW60	2	Acrylic Prismatic Refractor, 0.95 Ballast Factor	48"	24"	3 3/16"	2GT8	**6RPZ0**
Lens, Electronic Instant Start											
	F32T8	32W	56W	4WW60	1	Acrylic Diffuser, 0.125" Thick	48"	24"	3 3/16"	2GT8	**1THT2**
	F32T8	32W	56W	4WW60	1	Acrylic Diffuser, with Whip	48"	24"	3 3/16"	2GT8	**2MZJ6**
	F32T8	32W	56W	4WW60	1	Acrylic Diffuser	48"	24"	3 3/16"	GT8	**3XY94**
2	F32T8	32W	56W	4WW60	1	Acrylic Diffuser, Flange, Overlapping Flanged Trim Type	48"	12"	4½"	GT8	**4LB82**
	F32T8	32W	56W	4WW60	1	Acrylic Diffuser	48"	12"	4½"	GT8	**5YA52**
	F32T8U6	32W	56W	2ETT3	1	Acrylic Diffuser, with Whip	24"	24"	3 3/16"	2GT8	**2MZJ7**
	F32T8U6	32W	56W	2ETT3	1	Acrylic Diffuser	24"	24"	3 3/16"	GT8	**3XY95**
	F32T8	32W	84W	4WW60	1	Acrylic Diffuser, 0.125" Thick, One 3-Lamp Ballast	48"	24"	3 3/16"	2GT8	**1THT6**
	F32T8	32W	84W	4WW60	1	Acrylic Diffuser with Whip, One 3-Lamp Ballast and 6' Prewire, ⅜" Dia., 18-Gauge, 3 Wires	48"	24"	3 3/16"	2GT8	**1THT7**
3	F32T8	32W	84W	4WW60	1	Acrylic Diffuser, Flange, Overlapping Flanged Trim Type	48"	24"	3 3/16"	2GT8	**1THU2**
	F32T8	32W	84W	21GP96	1	Acrylic Diffuser	48"	24"	3 3/16"	GT8	**3XY96**
	F32T8	32W	84W	4WW60	2	Acrylic Diffuser, 2 Fixture Tandem	48"	24"	3 3/16"	2GT8	**7AA50**
	F32T8	32W	84W	4WW60	2	Acrylic Diffuser	48"	24"	3 3/16"	2GT8	**1THT5**
	F32T8	32W	112W	4WW60	1	Acrylic Diffuser, 0.125" Thick, One 3-Lamp Ballast	48"	24"	3 3/16"	2GT8	**1THT9**
	F32T8	32W	112W	4WW60	1	Acrylic Diffuser, One 4-Lamp Ballast	48"	24"	3 3/16"	GT8	**3XY97**
4	F32T8	32W	112W	4WW60	1	Acrylic Diffuser with Whip, One 4-Lamp Ballast and 6' Prewire, ⅜" Dia., 18-Gauge, 3 Wires	48"	24"	3 3/16"	2GT8	**3XY98**
	F32T8	32W	112W	2ETU2	1	Center Mount Diffuser, Round Holes	48"	24"	3 3/16"	GT8	**3YA10**
	F32T8	32W	112W	4WW60	1	Acrylic Diffuser, Flange, Overlapping Flanged Trim Type and One 4-Lamp Ballast	48"	24"	3 3/16"	2GT8	**3YA11**
	F32T8	32W	112W	4WW60	2	Acrylic Diffuser	48"	24"	3 3/16"	GT8	**3XY99**
Lens, Electronic Program Start											
2	T5	28W	62W	5AE20	1	2 x 4, Acrylic Diffuser, Use with Controls	48"	24"	3¾"	SP5	**6CGA4**
	T8	32W	58W	4WW60	1	2 x 4, Acrylic Diffuser, Use with Controls	48"	24"	3¾"	SP8	**6CGA6**
3	T5	28W	95	5AE20	2	2 x 4, Acrylic Diffuser, Use with Controls	48"	24"	3¾"	SP5	**6CGA5**
	T8	32W	85W	4WW60	1	2 x 4, Acrylic Diffuser, Use with Controls	48"	24"	3¾"	SP8	**6CGA7**


No. 48TK57


No. 45VT37


No. 31A149


No. 31A151


No. 53DK27

LED Surface Mount Lighting

Energy-efficient no-maintenance fixtures can be mounted individually or in series. Temperature-limiting and -diffusing features extend lamp life. Directional LEDs focus light where needed, with no flicker or buzzing. Suitable for use in office, commercial, industrial, and retail applications.

GE

Lumination™ WS Series— Wrap-mount fixtures provide efficient, even light distribution, and have a compact, ceiling-hugging profile. Ideal for back office, hallway, storage, and utility applications. C-UL Listed.

HUBBELL

- **5-yr. limited warranty**

Long life helps virtually eliminate the need for maintenance.

CWP4 Series—An economical solution for effective lighting in general low-bay applications. Damp location listed.

LBIL Series—Fixtures feature an integral occupancy sensor that can be configured to operate at 50% when the area is unoccupied and at full power when occupied.

LAW Series—These wrap-around fixtures are an excellent choice for hallways, closets, utility rooms, and low-ceiling areas. The heavy-gage steel housing hinges from either side for easy access to driver boards. Can be surface-mounted or susp ended.

LITHONIA LIGHTING

FMLWL Series—Wraparound fixtures provide ambient lighting for both residential and commercial use. An excellent choice for use in kitchens, laundry rooms, utility work spaces, stairwells, and offices. Suitable for damp locations.

ST Series—Fixtures can be mounted individually or in series, and feature LED AccuDrive™ dimming. An excellent choice for general ambient lighting in offices, workrooms, retail, and other commercial applications. Thermally protected.

LBL Series—Fixtures feature a digital lighting platform to deliver dependable, general purpose lighting. Ideal for closets, storage rooms, hallways, and offices. Suitable for damp locations.

W Series—Dirtectional LEDs can be aimed to focus more light where needed. Suitable for use in office, commercial, industrial, and retail applications.

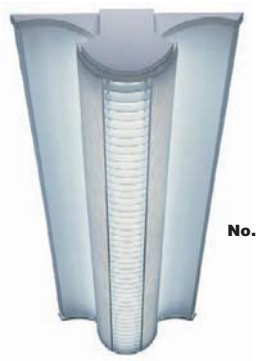
SBL Series—Fixtures can be mounted individually or in series, and the directional LEDs can be focused to illuminate hard-to-light areas. Suitable for office, commercial, industrial, and retail applications. Steel housing.

LUMAPRO

Meets building and safety codes for utility, parking garage, and stairwell lighting. Designed with a full-length wraparound acrylic lens.

Watts	Voltage	Color Index	Lumens	Lumens Per Watt	Color Temp.	LED Replacement For	Dimmable	Lighting Certification	Fixture Rated Life	Temp. Range	L	H	W	Item No.
GE Lighting														
Lumination™ WS Series														
51.0	120/277	80.0	5600	110.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	-22° to 104°F	48"	2½"	7"	**48TK57**
72.0	120/277	80.0	8000	113.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	-22° to 104°F	48"	2½"	14"	**48TK58**
Hubbell Lighting - Columbia														
CWM Series														
25.0	120 to 277	84.0	1800	73.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	24"	4"	6½"	**56FH55**
	120 to 277	84.0	1800	73.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	24"	4"	6½"	**56FH56**
36.0	120 to 277	84.0	2500	92.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	24"	4"	6½"	**56FH57**
	120 to 277	84.0	2500	92.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	24"	4"	6½"	**56FH58**
	120 to 277	84.0	2900	76.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH62**
38.0	120 to 277	84.0	2900	76.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH63**
	120 to 277	84.0	2900	76.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH64**
	120 to 277	84.0	3200	75.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH59**
43.0	120 to 277	84.0	3200	75.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH60**
	120 to 277	84.0	3200	75.0	4000K	—	Yes	No	60,000 hr.	-20° to 25°C	48"	4"	6½"	**56FH61**
CWP4 Series														
37.0	120/277	80.0	4500	124.0	4000K	2 Lamp LFL	Yes	DLC	55,000 hr.	—	48"	3"	9"	**488U56**
LAW Series														
24.0	120 to 277	80.0	2644	110.0	3500K	3 Lamp LFL	Yes	DLC	50,000 hr.	-17° to 40°C	24"	2 13/16"	8 5/16"	**32WU70**
28.0	120 to 277	80.0	3295	116.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	-20° to 25°C	24"	2 13/16"	8 5/16"	**53WA56**
37.0	120 to 277	80.0	4400	120.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	-20° to 25°C	48"	2 13/16"	8 5/16"	**53WA59**
43.0	120 to 277	80.0	4900	117.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	-20° to 25°C	48"	2 13/16"	8 5/16"	**53WA60**
	120 to 277	80.0	4900	115.0	3500K	4 Lamp LFL	Yes	DLC	50,000 hr.	-17° to 40°C	48"	2 13/16"	8 5/16"	**32WU71**
51.0	120 to 277	80.0	5600	111.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	-20° to 25°C	48"	2 13/16"	8 5/16"	**53WA58**
	120 to 277	80.0	5700	112.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	-20° to 25°C	48"	2 13/16"	8 5/16"	**53WA61**
LBIL Series														
42.0	120 to 277	80.0	5000	119.0	4000K	2 Lamp T8	Yes	DLC	50,000 hr.	-20° to 25°C	54"	4"	6"	**45VT37**
RLW Series														
29.0	120 to 277	80.0	3900	138.0	4000K	—	Yes	DLC	60,000 hr.	-20° to 25°C	48"	3 5/8"	8½"	**56FH67**
34.0	120 to 277	80.0	4300	127.0	4000K	2 Lamp LFL	Yes	No	60,000 hr.	-25° to 35°C	48 39/64"	3 39/64"	8½"	**656P37**
40.0	120 to 277	80.0	5200	129.0	3500K	3 Lamp LFL	Yes	No	60,000 hr.	-25° to 35°C	48 39/64"	3 39/64"	8½"	**656P38**
48.0	120 to 277	80.0	5700	119.0	4000K	—	Yes	No	60,000 hr.	-25° to 35°C	48 39/64"	3 39/64"	8½"	**656P40**
Lithonia Lighting														
FMLWL Series														
20.0	120	85.0	1200	61.0	4000K	1 Lamp LFL	No	ENERGY STAR	50,000 hr.	-10° to 86°F	24½"	2¾"	5½"	**36VU47**
40.0	120	85.0	2380	59.0	4000K	1 Lamp LFL	No	ENERGY STAR	50,000 hr.	-10° to 86°F	47 13/32"	2¾"	5½"	**36VU48**
LBL Series														
17.0	120 to 277	82.0	2000	119.0	3500K	2 Lamp LFL	No	DLC	50,000 hr.	0° to 25°C	24"	2¾"	10"	**48H442**
	120 to 277	82.0	2000	121.0	4000K	2 Lamp LFL	No	DLC	50,000 hr.	0° to 25°C	24"	2¾"	10"	**48H443**
32.0	120 to 277	82.0	3925	122.0	4000K	3 Lamp LFL	No	DLC	50,000 hr.	0° to 25°C	48"	2¾"	10"	**48H445**
	120 to 277	82.0	4188	130.9	3500K	2 Lamp LFL	No	DLC	50,000 hr.	0° to 25°C	48"	2¾"	10"	**48H444**
SBL Series														
33.8	120 to 277	80.0	1937	115.0	4100K	1 Lamp T8	Yes	DLC	50,000 hr.	-4° to 104°F	24"	2⅝"	8⅝"	**444A34**
	120 to 277	80.0	1967	116.0	3000K	1 Lamp T8	Yes	DLC	50,000 hr.	-4° to 104°F	24"	2⅝"	8⅝"	**444A33**
64.0	120 to 277	80.0	3933	121.0	3500K	2 Lamp T8	Yes	DLC	50,000 hr.	-4° to 104°F	48"	2⅝"	8⅝"	**444A32**
32.0	120 to 277	82.0	3994	124.8	4000K	2 Lamp T8	Yes	DLC	50,000 hr.	0° to 25°C	48"	2⅝"	8⅝"	**44ZU67**
ST Series														
20.0	120 to 277	82.0	2200	84.0	3500K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	24"	3⅞"	10⅛"	**31A149**
45.0	120 to 277	82.0	4800	84.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	48"	3⅞"	10⅛"	**31A150**
W Series														
7.5	120 to 277	82.0	809	108.0	3500K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	23⅜"	3⅞"	4¾"	**36MG19**
	120 to 277	82.0	848	113.0	4000K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	23⅜"	3⅞"	4¾"	**36MG20**
	120 to 277	82.0	1249	102.0	3500K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	23⅜"	3⅞"	4¾"	**36MG21**
12.2	120 to 277	82.0	1249	102.0	3500K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	25⅞"	3 1/16"	4¾"	**31A151**
	120 to 277	82.0	1311	107.0	4000K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	23⅜"	3⅞"	4¾"	**36MG22**
17.5	120 to 277	82.0	1889	108.0	4000K	2 Lamp LFL	Yes	No	50,000 hr.	0° to 25°C	23⅜"	3⅞"	4¾"	**36MG23**
	120 to 277	82.0	2152	115.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	50 15/16"	3 1/16"	4¾"	**36MG28**
	120 to 277	82.0	2152	115.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	46 13/16"	3⅞"	4¾"	**36MG15**
18.7	120 to 277	82.0	2152	115.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	50 15/16"	3⅞"	4¾"	**31A153**
	120 to 277	82.0	2255	121.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	46 13/16"	3⅞"	4¾"	**36MG16**
	120 to 277	82.0	2255	121.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	50 15/16"	3 1/16"	4¾"	**36MG26**
	120 to 277	82.0	3095	110.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	50 15/16"	3 1/16"	4¾"	**36MG29**
28.2	120 to 277	82.0	3095	110.0	3500K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	46 13/16"	3⅞"	4¾"	**36MG18**
	120 to 277	82.0	3251	115.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	50 15/16"	3 1/16"	4¾"	**36MG27**
	120 to 277	82.0	3251	115.0	4000K	2 Lamp LFL	Yes	DLC	50,000 hr.	0° to 25°C	46 13/16"	3⅞"	4¾"	**36MG17**
LumaPro														
40.0	120 to 277	80.0	4320	108.0	3000K	3 Lamp T8, 2 Lamp T5	No	DLC	50,000 hr.	-20° to 40°C	48"	2¼"	6¾"	**53DK27**


No. 3YA25


No. 1THV2


No. 6ZFW5


No. 22PV05

Architectural Fluorescent Fixtures

- 120 to 277V
- Integral T-bar mounting clips UL Listed.

Direct/Indirect—Mix of direct and indirect lights increased visual comfort and minimized shadows. Diffuser pivots down for simple lamp changes and can be removed for cleaning or replacement. Ideal for office, school, hospital, and retail applications.

Volumetric—Fixtures fill the room with soft lighting from an evenly distributed combination of volumetric and quiet ceiling light. Ideal for office, school, hospital, and retail applications. Nos. 2MZF3 and 5XY99 feature electronic step dimming.

Healthcare Exam Light—Streamlined multifunction fixture provides ambient and task lighting. Reading and direct task lighting are on a separate circuit with pull-chain control. High-gloss white polyester powder-coated finish.

- Steel construction

Nominal Size	Lamp Qty.	Lamp Type	Lamp Watts	Max. Fixture Wattage	Lamp Incl.	Lamp Color Temp.	Fixture Ballast Type	Ambient Temp. Range	L	W	Series	Item No.
Lithonia Lighting												
Direct/Indirect												
2 ft. x 2 ft.	2	T5, T5HO, T8	40W	78.0	No	—	Electronic Program Start	0° to 104°F	24"	24"	2AV	**3YA25**
	2	T5, T5HO, T8	40W	78.0	No	—	Electronic Instant Start	0° to 104°F	24"	24"	2AV	**3YA29**
	3	T8	17W	47.0	No	—	Electronic Instant Start	32° to 104°F	24"	24"	2AV	**2MZE8**
2 ft. x 4 ft.	2	T8	32W	56.0	No	—	Electronic Instant Start	0° to 104°F	48"	24"	2AV	**3YA27**
	3	T8	32W	83.0	No	—	Electronic Instant Start	32° to 104°F	48"	24"	2AV	**2MZE9**
	3	T8	32W	83.0	No	—	Electronic Instant Start	0° to 104°F	48"	24"	2AV	**3YA26**
—	2	F32T8	32	56.0	No	—	Instant Start Electronic	0 to 95°F	48"	12"	AVSM	**1THV2**
Volumetric												
2 ft. x 2 ft.	2	T5	14W	34.0	Yes	4100K	Electronic Program Start	0° to 104°F	24"	24"	2RT5	**2MZF1**
	2	T5	14W	37.0	Yes	3500K	Electronic Program Start	32° to 104°F	24"	24"	2RT5	**5XY96**
	2	T5	14W	34.0	No	—	Electronic Program Start	0° to 104°F	24"	24"	VT	**6ZFX0**
	2	T8	17W	31.0	Yes	3500K	Electronic Instant Start	0° to 95°F	24"	24"	RT8	**6HHG2**
	2	T8	17W	31.0	Yes	4100K	Electronic Instant Start	0° to 95°F	24"	24"	RT8	**6HHG3**
	2	T8	17W	31.0	No	—	Electronic Instant Start	0° to 104°F	24"	24"	VT	**6ZFW7**
	3	T8	17W	62.0	No	—	Electronic Instant Start	0° to 104°F	24"	24"	VT	**6ZFW8**
2 ft. x 4 ft.	2	T5	28W	58.0	No	—	Electronic Program Start	0° to 104°F	48"	24"	VT	**6ZFW9**
	2	T8	32W	58.0	Yes	4100K	Electronic Instant Start	0° to 95°F	48"	24"	RT8	**6HHG0**
	2	T8	32W	58.0	Yes	3500K	Electronic Instant Start	0° to 95°F	48"	24"	RT8	**6HHG1**
	2	T8	32W	58.0	No	—	Electronic Instant Start	0° to 104°F	48"	24"	VT	**6ZFW6**
	3	T8	32W	89.0	No	—	Electronic Instant Start	0° to 104°F	48"	24"	VT	**6ZFW5**
LumaPro												
Healthcare Exam Light												
—	2	F14T5	14W	28.0	No	—	—	0° to 104°F	23 15/64"	6 35/64"	—	**22PV05**


No. 3YA13


No. 3XY66


No. 16U244


No. 3XY82


No. 5YA88

Fluorescent Surface Mount Fixtures

- Acrylic diffusers
- White finish
- 120 to 277V
- Ambient temp. range: 0° to 104°F

These commercial-grade fluorescent fixtures can be surface- or suspension-mounted in unit or row applications (except No. 2PFV4 is surface-mount only).

Surface Troffer—Lensed fixture provides general area illumination. Door has tee hinges and rotary-action cam latches.

Low-Profile Wraparound—Rounded prismatic diffuser with continuous interlocking support prevents accidental opening. Injection-molded, luminous end caps and linear side prisms control brightness. Row mount without tools using snap-in couplers.

Economy Low-Profile Wraparound—Compact design minimizes ceiling shadow and sharp contrasts. Lightweight unit has flat-bottom prismatic diffuser.

Volumetric—Ceiling fixtures create an optimal mix of light to horizontal and vertical work surfaces. Crescent shape, linear faceted refractor provides uniform light distribution and high angle brightness control.

Square Basket Wraparound—Flat bottom prismatic diffuser opens from either side for easy cleaning and service. Low profile fixture has linear side prisms for brightness control.

Corridor Wraparound—Prismatic diffuser with interlocking support provides secure attachment. Injection molded, luminous end caps and linear side prisms control brightness. Snap in couplers allow row mounting without tools.

Lamp Qty.	Lamp Type	Fixture Wattage	Suggested Lamp Item No.	Ballast Quantity	Replacement Lens	L	W	H	Series	Item No.
Surface Troffer										
2	F32T8	58	2ETU3	1	LM A12	48"	12"	3¾"	M	**1THR7**
	F32T8	58	2ETU3	1	1VNT2	48"	24"	3¾"	2M	**5YA89**
	F32T8U6	58	2ETT6	1	1VNT4	24"	24¼"	3½"	2M	**3YA12**
3	F32T8	85	2ETU3	1	1VNT2	48"	24"	3¾"	2M	**1THR8**
4	F32T8	112	2ETU3	1	L2M A12	48"	24"	3¾"	2M	**3YA13**
Low Profile Wraparound										
2	F17T8	33	3GXP8	1	1VNP8	24"	10"	3"	LB	**1THP5**
	F28T5	64	5AE20	1	DLB46	46½"	10"	3"	LB	**4VDE9**
	F32T8	58	2ETU3	1	1VNR1	48"	10"	3"	LB	**3XY66**
	F32T8	58	3VK30	1	—	48"	10"	3"	LB	**6CGA8**
3	F28T5	90	5AE20	1	D2LB46	46½"	15⅜"	3"	LB	**4VDF1**
	F32T8	85	2ETU3	1	1VNR3	48"	15⅜"	3"	LB	**3XY74**
	F32T8	85	2ETU3	2	1VNR3	48"	15⅜"	3"	LB	**2UJT2**
	F32T8	85	3VK30	2	—	48"	15⅜"	3"	LB	**6CGA9**
4	F17T8	64	3GXP8	1	6253369	24"	15⅜"	3"	LB	**1THP4**
	F32T8	112	2ETU3	1	(2) 1VNR1	96"	10"	3"	TLB	**5XY71**
	F32T8	116	2ETU3	2	1VNR3	48"	15⅜"	3"	LB	**2UJT3**
	F32T8 32W	112	2ETU3	1	1VNR3	48"	15⅜"	3"	LB	**3XY75**
Economy Low-Profile Wraparound										
2	F32T8	58	2ETU3	1	2UJT1	48"	5"	2¼"	RB	**2PFV4**
Volumetric										
2	T8	33	6XV01	1	DST24	24"	10⅛"	3⅞"	ST	**16U246**
	T8	58	3CA64	1	DST48	48"	10⅛"	3⅞"	ST	**16U244**
3	T8	88	3CA64	1	DST48	48"	10⅛"	3⅞"	ST	**16U245**
Square Basket Wraparound										
2	F32T8	58	2ETU3	1	1VNR5	48"	8 5/16"	2⅞"	SB	**3XY82**
	T8	17	—	1	DSB24	24"	8⅞"	2⅞"	SB	**6CGC0**
4	F32T8	112	2ETU3	1	1VNR7	48"	14 9/16"	2⅞"	SB	**3XY83**
Corridor Wraparound										
1	T8	30	2ETU3	1	1VNR9	48"	7"	4½"	CB	**5YA88**
2	F32T8	58	2ETU3	1	1VNR9	48"	7"	4½"	CB	**2UJR9**



No. 48TL89



No. 53VU20



No. 45VY72



No. 436R27

LED Vapor Tight Fixtures

- 120/277V
- UL Listed

All feature fiberglass housings, except LumaPro.

GE—The precision lens system provides optimized illumination for open floor plans, and directional LEDs let you direct light where needed to help increase efficiency. Surface- or chain-mount. Recommended for low-bay lighting applications at 20 ft. or lower.

Hubbell—Multi-function fixtures can withstand severe conditions and serve well in food service areas. A removable gear tray provides quick access to LED drivers and light board. Impact modified acrylic lens equivalent to 100% DR.

Lithonia Lighting—Fixtures feature a closed-cell gasket and frosted acrylic lens. FEM Series is designed for challenging situations and is approved as a wireway and for through wiring.

LumaPro—Operate at cooler temperatures for more output and longer life. Surface-mount. Steel housing, except 53DK Series are polycarbonate.

- 0-10V LED dimming

Wattage	Fixture Rated Life	IP Rating	DesignLights Consortium (DLC)	Dimmable	Temp. Range	Fixture Housing Material	L	W	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.	5000K Lumens	5000K Lumens Per Watt	5000K Item No.
GE Lighting																	
Albeo™ ALR Series																	
20.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	50½"	7¼"	—	—	—	3100	155.0	**48TL89**	3100	155.0	**48TL90**
34.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	50½"	7¼"	—	—	—	5100	150.0	**48TL91**	5100	150.0	**48TL92**
38.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	98"	7¼"	—	—	—	6100	161.0	**48TL95**	6100	161.0	**48TL96**
59.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	50½"	7 13⁄64"	—	—	—	8100	137.0	**48TL93**	8100	137.0	**48TL94**
67.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	98"	7 13⁄64"	—	—	—	10,100	151.0	**48TL97**	10,100	151.0	**48TL98**
118.0	100,000 hr.	IP65	Yes	Yes	-22° to 113°F	Fiberglass	98"	7 13⁄64"	—	—	—	16,100	136.0	**48TL99**	16,100	136.0	**48TM01**
Hubbell Lighting - Columbia																	
LXEM Series																	
21.0	60,000 hr.	IP65	Yes	Yes	-40° to 50°C	Aluminum	27⅝"	6¾"	2500	107.0	**53VU20**	2500	107.0	**53VU23**	—	—	—
26.0	60,000 hr.	IP65	Yes	Yes	-40° to 50°C	Aluminum	27⅝"	6¾"	3300	121.0	**53VU21**	3300	121.0	**53VU24**	—	—	—
33.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	51⅛"	6¾"	4200	124.0	**53VU26**	4200	124.0	**53VU29**	—	—	—
38.5	60,000 hr.	IP65	Yes	Yes	-40° to 50°C	Aluminum	27⅝"	6¾"	4500	100.0	**53VU22**	4500	110.0	**53VU25**	—	—	—
42.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 25°C	Aluminum	50¾"	6¾"	5000	121.0	**39DZ82**	—	—	—	—	—	—
	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	51⅛"	6¾"	—	—	—	5000	123.0	**53VU30**	—	—	—
47.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	51⅛"	6¾"	6100	129.0	**53VU28**	6100	131.0	**53VU31**	—	—	—
67.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	100"	6¾"	8600	126.0	**53VU32**	8600	128.0	**53VU36**	—	—	—
84.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	100"	6¾"	10000	121.0	**53VU33**	10000	123.0	**53VU37**	—	—	—
95.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	100"	6¾"	12,000	129.0	**53VU34**	12,000	131.0	**53VU38**	—	—	—
123.0	60,000 hr.	IP65, IP67	Yes	Yes	-40° to 50°C	Aluminum	100"	6¾"	15,000	124.0	**53VU35**	15,000	126.0	**53VU39**	—	—	—
LXEN Series																	
37.0	60,000 hr.	IP65, IP66, IP67	Yes	Yes	-20° to 25°C	Fiberglass	51¾"	4"	2100	116.0	**53XX90**	2100	116.0	**53XX92**	—	—	—
	60,000 hr.	IP65, IP66, IP67	Yes	Yes	-20° to 25°C	Fiberglass	51¾"	4"	4000	109.0	**53XX91**	4000	109.0	**53XX93**	—	—	—
Lithonia Lighting																	
DMW2 Series																	
18.0	50,000 hr.	IP65, IP66	Yes	Yes	-40° to 40°C	Fiberglass	24"	5⅞"	—	—	—	2536	141.0	**45VY72**	2661	148.0	**45VY75**
27.0	50,000 hr.	IP65, IP66	Yes	Yes	-40° to 40°C	Fiberglass	24"	5⅞"	—	—	—	3651	135.0	**45VY73**	3831	142.0	**45VY76**
40.0	50,000 hr.	IP65, IP66	Yes	Yes	-40° to 40°C	Fiberglass	24"	5⅞"	—	—	—	4855	121.0	**45VY74**	5094	127.0	**45VY77**
FEM Series																	
23.0	100,000 hr.	IP65, IP66, IP67	No	Yes	-20° to 25°C	Fiberglass	51¾"	6¾"	—	—	—	2741	152	**53XH25**	2770	154	**53XH30**
31.0	100,000 hr.	IP65, IP66, IP67	Yes	Yes	-20° to 25°C	Fiberglass	51¾"	6¾"	—	—	—	3612	152	**53XH26**	3651	153	**53XH31**
45.0	100,000 hr.	IP65, IP66, IP67	No	Yes	-20° to 25°C	Fiberglass	51¾"	6¾"	—	—	—	5385	142	**53XH27**	5444	144	**53XH32**
69.0	100,000 hr.	IP65, IP66, IP67	Yes	Yes	-20° to 25°C	Fiberglass	51¾"	6¾"	—	—	—	7086	140	**53XH28**	7163	142	**53XH33**
80.0	100,000 hr.	IP65, IP66, IP67	Yes	Yes	-20° to 25°C	Fiberglass	51¾"	6¾"	—	—	—	8813	142	**53XH29**	8909	144	**53XH34**
XVML Series																	
33.0	60,000 hr.	IP65, IP66	Yes	Yes	-20° to 40°C	Polycarbonate	47 13⁄16"	3¼"	—	—	—	3558	106.6	**460L02**	3642	110.3	**460L03**
49.0	60,000 hr.	IP65, IP66	Yes	Yes	-20° to 40°C	Polycarbonate	47 13⁄16"	4½"	—	—	—	5365	109.6	**460L04**	5534	112.5	**460L05**
LumaPro																	
19.0	100,000 hr.	IP66	No	Yes	-30° to 40°C	Polycarbonate	50"	6¾"	—	—	—	—	—	—	2977	140.0	**436R30**
20.0	100,000 hr.	IP66	No	Yes	-30° to 40°C	Polycarbonate	26"	6¾"	—	—	—	2966	134.0	**436R27**	2850	131.0	**436R28**
	100,000 hr.	IP66	No	Yes	-30° to 40°C	Polycarbonate	50"	6¾"	—	—	—	2912	138.0	**436R29**	—	—	—
30.0	100,000 hr.	IP66	No	Yes	-30° to 40°C	Polycarbonate	50"	6¾"	—	—	—	4377	133.0	**436R31**	4360	134.0	**436R32**
38.0	50,000 hr.	—	No	No	-20° to 45°C	Aluminum	47¼"	3¾"	—	—	—	4300	114.0	**53DK26**	—	—	—



Ironclad® Vandal-Resistant Correctional Facility LED Fixture

shat-r-shield® INC. The Protective Lighting Company

- 120 to 277V
- UL Listed

Constructed to withstand extreme abuse, this one-piece fixture can be easily mounted completely flush into concrete ceilings using tamperproof fasteners. The high efficiency LED light engine generates a cool light that simulates daylight, while a night light LED module provides soothing low-level illumination for additional safety after "lights out." Has no accessible parts or hinges that can offer a point of entrance, and no areas to hide or conceal contraband.

Wattage	Lumens	Lumens Per Watt	Color Temp.	Fixture Rated Life	Dimmable	Temp. Range	Fixture Housing Material	Diameter	Height	Item No.
42.0 W	4,400 lm	104.8 lm/W	5,000 K	106,000 hr	Yes	-17° to 40°C	304 Stainless Steel	12 ¼ in	1 ⅞ in	**494F12**

LITHONIA LIGHTING® ★ LumaPro®

Special Application Fluorescent Fixtures

- Lamps not included



DUST-RESISTANT

Designed to prevent entry of airborne contaminants. Impact-resistant acrylic diffuser is secured to housing with cam latches for a positive seal. Suitable for use in fabrication and machining areas, welding, grinding, or any nonhazardous environment. All are UL Listed for wet locations. LumaPro® fixtures are also C-UL Listed for wet locations.

HIGH-PRESSURE, HOSE-DOWN

Sealed fixtures have a high-impact acrylic lens and are intended for low to medium mounting heights. IP65 rated. UL and C-UL Listed for wet locations. Nos. 1BP87 and 2LYX8 meet FDA/USDA guidelines.

INDUSTRIAL TROFFER

Wet Room, No. 3XY80—Specification-grade troffer is completely gasketed with closed-cell neoprene for extra moisture resistance. Housing and door frame have white polyester powder-coated paint finish for corrosion resistance.

WET LOCATION

Great for pharmaceutical and food handling, sauna, traffic tunnel, parking lot, and similar applications. UV-resistant gray polycarbonate housing is corrosion- and high temperature-resistant and impact-, shock-, and fireproof. Clear polycarbonate diffuser. 5-yr. warranty. Include hardware for surface or suspended mounting. UL and C-UL Listed for wet locations.

VAPOR TIGHT FIXTURES

Ballasts are energy-saving and thermally protected. UL Listed for wet locations.

Lamp Qty.	Lamp Type	Suggested Lamp Item No.	Fixture Wattage	Voltage	Fixture Ballast Type	Ambient Temp. Range	Replacement Lens	L	W	H	Series	Brand	Item No.
Industrial													
1	T5HO	5AE35	58W	120 to 277	Electronic Program Start	-20° to 104°F	—	51¾"	4"	4"	FEN	Lithonia Lighting	**16U242** #
2	T5HO	5AE35	117W	120 to 277	Electronic Program Start	-20° to 104°F	BMPCL, IMACL, IMACD	51¾"	7"	4"	FEM	Lithonia Lighting	**16U243**
	T5HO	5AE35	234W	120 to 277	Electronic Program Start	-20° to 104°F	IMACL, IMACD	100"	7"	4"	FEM	Lithonia Lighting	**16U240** #
	T8	3CA64	58W	120 to 277	Electronic Instant Start	-20° to 104°F	BMPCL, IMACL, IMACD	51¾"	7"	4"	FEM	Lithonia Lighting	**16U241** #
4	T8	2ETU3	112W	120 to 277	Electronic Instant Start	0° to 104°F	1VNP1	48"	24"	3¾"	WRT	Lithonia Lighting	**3XY80**
Fluorescent													
6	T8	3VK30	220W	120 to 277VAC	Electronic Instant Start	0° to 104°F	—	48"	16"	5¼"	FFB	Lithonia Lighting	**6ECL2**
Dust Resistant													
1	F17T8	21GR04	17	120 to 277	Electronic	0° to 104°F	6EKP8	26⅜"	4"	4⅝6"	—	LumaPro	**6GAL4** *
	F32T8	21GP96	32	120 to 277	Electronic	0° to 104°F	6EKP9	50⅜6"	4"	4⅝6"	—	LumaPro	**6GAL5** *
2	F32T8	21GP96	64	120 to 277	Electronic	0° to 104°F	6EKP6	50⅜6"	6⅜"	4⅝6"	—	LumaPro	**6GAL2** *
	T5HO	2EAF8	120W	120 to 277	Electronic Program Start	-20° to 104°F	1VNN5	50"	8⅛"	4¾"	DMW	Lithonia Lighting	**1VNU5**
	T5HO	5AE35	120W	120 to 277	Electronic Program Start	-18° to 104°F	—	48"	5¾"	4"	XWL	Lithonia Lighting	**4VDD1**
	T8	2ETU3	56W	120 to 277	Electronic Instant Start	0° to 104°F	1VNN5	50"	8⅛"	4¾"	DMW	Lithonia Lighting	**3YA23**
	T8	2ETU3	56W	120 to 277	Electronic Instant Start	0° to 104°F	—	48"	5¾"	4"	XWL	Lithonia Lighting	**4LUW4**
	T8	38L993	108W	120 to 277	Electronic Instant Start	32° to 104°F	1VNN6	98"	8⅛"	5⅝"	DMW	Lithonia Lighting	**3YA24**
	T8HO	—	98W	120 to 277	Electronic Program Start	-20° to 104°F	—	50"	8⅛"	5⅝"	DMW	Lithonia Lighting	**6HHG4**
	T8HO	2F964	185W	120 to 277	Electronic Program Start	-20° to 104°F	1VNN6	98"	8⅛"	5⅝"	DMW	Lithonia Lighting	**2LYX9**
4	T8	2ETU3	112W	120 to 277	Electronic Instant Start	0° to 104°F	1VNN6	98"	8⅛"	5⅝"	TDMW	Lithonia Lighting	**5YA12**
High Pressure Hose Down													
2	T8	2ETU3	56W	120 to 277	Electronic Instant Start	0° to 104°F	1VNP3	50"	6½"	7¼"	EFT	Lithonia Lighting	**1BP87** ‡
	T8	2ETU3	56W	120 to 277	Electronic Instant Start	0° to 104°F	1VNP2	49¾"	9¾"	6"	EFS	Lithonia Lighting	**5YA99** †
	T8HO	2F964	160W	120 to 277	Electronic Program Start	50° to 104°F	1VNP6	98"	6½"	7¼"	EFT	Lithonia Lighting	**2LYX8**
4	T5HO	5AE35	216W	120 to 277	Electronic Program Start	-20° to 104°F	DFHE (185LMY)	51⅞"	14⅝"	6"	FHE	Lithonia Lighting	**4VDC4** **
	T8	2ETU3	128W	120 to 277	Electronic Program Start	-20° to 104°F	—	51⅞"	14⅝"	6"	FHE	Lithonia Lighting	**4VDC3** **
6	T5HO	5AE35	324W	120 to 277	Electronic Program Start	-20° to 104°F	—	51⅞"	14⅝"	6"	FHE	Lithonia Lighting	**4VDC6** #
	T8	2ETU3	192W	120 to 277	Electronic Program Start	0° to 104°F	—	51⅞"	14⅝"	6"	FHE	Lithonia Lighting	**4VDC5** **
Cold Storage Enclosed High Bay													
4	T5HO	2EAF8	204W	120 to 277VAC	Electronic Programmed Start	0° to 104°F	—	48"	12"	5¼"	FFB	Lithonia Lighting	**2YGH3**
Parking Garage													
2	Fluorescent	3VK30	78	120 to 277	Electronic Instant Start	-22° to 104°F	—	54¾"	8¼"	4⅛"	VAP	Lithonia Lighting	**6ECL4**
	Fluorescent	5AE35	114	120 to 277	Electronic Program Start	-20° to 104°F	—	54¾"	8¼"	4⅛"	VAP	Lithonia Lighting	**6ECL3**
Wet Location													
2	F32T8	2ETU3	60W	120 to 277	Instant Start	0° to 131°F	31C005	50''	6"	4 13⁄64"	—	LumaPro	**31C001**
	F54T5HO	5AE35	118W	120 to 277	Programmed Rapid Start	0° to 131°F	31C005	50''	6"	4 13⁄64"	—	LumaPro	**31C002**
Vapor Tight													
1	Fluorescent	3VK30	28	120-277	Instant High Ballast Factor	-10-104°F	—	52"	7"	4¾"	FEM	Lithonia Lighting	**40L083**
	Fluorescent	3VK30	28	120-277	Instant High Ballast Factor	-10-104°F	—	100¼"	7"	4¾"	FEM	Lithonia Lighting	**40L084**
	Fluorescent	3VK30	28	120-277	Instant High Ballast Factor	-10-104°F	—	100¼"	7"	4¾"	FEM	Lithonia Lighting	**40L085**
	Fluorescent	3VK30	28	120-277	Instant High Ballast Factor	-10-104°F	—	52"	7"	4¾"	FEM	Lithonia Lighting	**40L101**
2	Fluorescent	3VK30	28	120-277	Instant High Ballast Factor	-10-104°F	—	52"	7"	4¾"	FEM	Lithonia Lighting	**40L093**
	Fluorescent	3VK30	28	120-277	Program Start	-10-104°F	—	52"	7"	4¾"	FEM	Lithonia Lighting	**40L094**
Recessed													
4	T8	2ETU3	112W	120 to 277V	Electronic Instant Start	0° to 104°F	1VNN9	48"	24"	5"	SRT	Lithonia Lighting	**3XY68**

** Surface- or pendant-mount with included stainless steel bracket. † Surface-mount. ‡ Suspended-mount; includes hooks, suspension cable, and 5-ft. power cord.*
*# Surface- or suspension-mount; includes brackets. ** Includes surface-mount brackets.*



No. 21GP55



No. 49NV85



No. 36ND60

LED Display and Cove Lighting

- 0° to 104°F temp. range
- 50,000-hr. rated life
- 120V
- 5-yr. limited warranty

RADIONIC HI-TECH

Durable extruded aluminum housing has white acrylic diffuser. Include 5-ft. power cord, 12" interconnect cord, butt connector, and hardware. Linkable up to 200W. Nondimmable except No. 21GP76. UL Listed.

Lamp Watts	Lumens	Color Temp.	CRI	Dimmable	Switch Action	Housing Color	W	H	L	Mfr. Model	Item No.	Pkg. Qty.
ES Series												
1.7	90	3000K	85	No	On/Off	Silver	1¼"	⅜"	4"	ES-CA03-WW	**21GP57**	1
3.9	271	3000K	85	No	On/Off	Silver	1¼"	⅜"	12"	ES-CA01-WW	**21GP55**	1
7.2	535	3000K	85	No	On/Off	Silver	1¼"	⅜"	12"	ES-CA02-WW	**21GP56**	2
LY Series												
2.3	219	4500K	90	No	On/Off	Silver	1½"	1"	12"	LY513-30-CW-9	**49NV85**	1
2.7	219	4500K	90	No	Hi/Low/Off	Silver	1½"	6¾"	12"	LY513-30-CL-CW-9	**49NV87**	1
2.9	286	4500K	90	No	On/Off	Silver	1½"	1"	18"	LY515-40-CW-9	**49NV86**	1
3.8	286	4500K	90	No	Hi/Low/Off	Silver	1½"	6¾"	17⅞"	LY515-40-CL-CW-9	**49NV88**	1
ZX Series												
1.9	188	4500K	90	No	On/Off	Silver	1½"	1"	8"	ZX506-CW-9	**49NV89**	1
2.3	164	3000K	90	No	On/Off	Silver	1½"	1"	8"	ZX506-WW-9	**49NV90**	1
4.4	435	3000K	90	No	Hi/Low/Off	Silver	1½"	1"	12"	ZX513-HL-WW-9	**49NV93**	1
4.6	450	4500K	90	No	Hi/Low/Off	Silver	1½"	1"	12"	ZX513-HL-CW-9	**49NV92**	1
5.8	450	4500K	90	No	Hi/Low/Off	Silver	1½"	6¾"	12"	ZX513-CL-HL-CW-9	**49NV94**	1
5.9	436	3000K	90	No	Hi/Low/Off	Silver	1½"	6¾"	17⅞"	ZX515-CL-HL-WW-9	**49NW01**	1
6.3	625	3000K	90	No	Hi/Low/Off	Silver	1½"	1"	18"	ZX515-HL-WW-9	**49NV98**	1
6.3	435	3000K	90	No	Hi/Low/Off	Silver	1½"	6¾"	12"	ZX513-CL-HL-WW-9	**49NV95**	1
6.4	663	4500K	90	No	Hi/Low/Off	Silver	1½"	1"	18"	ZX515-HL-CW-9	**49NV97**	1
6.4	662	4500K	90	No	Hi/Low/Off	Silver	3⅝"	1"	18"	ZXR515-HL-CW-9	**49NW04**	1
6.7	435	2700K	85	Yes	On/Off	Silver	1½"	1"	12"	ZX513-D-WW	**21GP76**	1
8.2	564	4500K	90	No	On/Off	Silver	1½"	1"	19"	ZX515-CW	**21GP66**	1
8.2	564	4500K	90	No	On/Off	Silver	1½"	1"	19"	ZX515-CL-CW	**21GP74**	1
8.4	663	4500K	90	No	Hi/Low/Off	Silver	1½"	6¾"	17⅞"	ZX515-CL-HL-CW-9	**49NV99**	1
9.0	720	4500K	90	No	Hi/Low/Off	Silver	1½"	6¾"	24"	ZX524-CL-HL-CW-9	**49NW03**	1
9.5	624	2700K	85	No	Hi/Low/Off	Silver	1½"	1"	19"	ZXR515-HL-WW	**21GP70**	1
10.2	720	4500K	90	No	Hi/Low/Off	Silver	1½"	1"	24"	ZX524-HL-CW-9	**49NW02**	1
For Use With Radionic ZX and LY Task Lights												
Connector Cord										XNCC12W	**45TY63**	1
Connector Cord										XNCC24W	**45TY64**	1
Hardwire Box										ZX-HWBX	**36ND60**	1



No. 39F140



No. 39UR44



No. 32PF21



No. 39UR45

LED Undercabinet Lighting

- 50,000-hr. rated life
- 120V
- 5-yr. limited warranty

LITHONIA LIGHTING®

Provide task or accent lighting. Low-profile design. Connect up to 540W on a single run; include 13" linking cable, 5 ft. power cord, and plug UL and C-UL Listed. ENERGY STAR qualified.

RADIONIC HI-TECH

Linkable up to 200 watts. Include 5 ft. power cord and plug, linking cord, butt connector, and plug. UL Listed.

Watts	Lumens	Color Temp.	CRI	Linkable	Dimmable	Switch Action	Includes	Housing Color	L	W	H	Item No.
Lithonia Lighting												
5.2	413	3000K	83	Yes	Yes	On/Off	—	White	12"	3⅝"	1"	**39F140**
8.6	585	3000K	83	Yes	Yes	On/Off	—	White	18"	3⅝"	1"	**39F141**
11.8	740	3000K	83	Yes	Yes	On/Off	—	White	24"	3⅝"	1"	**39F142**
Radionic Hi-Tech												
6.4	453	4000K	90	Yes	Yes	On/Off	Linking Cable and Butt Connector, Detachable 5' Cord/Plug/Hardwire Parts	White	14"	4"	1"	**32PF21**
10.8	741	4000K	90	No	No	Hi/Low/Off	5' Cord,USB Charging Port & Convenience Outlet	White	22"	4"	1"	**39UR44**
10.9	741	4000K	90	Yes	Yes	On/Off	Linking Cable and Butt Connector, Detachable 5' Cord/Plug/Hardwire Parts	White	22"	4"	1"	**32PF22**
11	741	4000K	90	Yes	No	Hi/Low/Off	5' Cord, Linking Cable and Butt Connector, Hardware, USB Charging Port	White	22"	4"	1"	**39UR45**
13.5	918	4000K	90	Yes	Yes	On/Off	Linking Cable and Butt Connector, Detachable 5' Cord/Plug/Hardwire Parts	White	32"	4"	1"	**32PF23**
13.5	918	4000K	90	Yes	No	Hi/Low/Off	5' Cord, Linking Cable and Butt Connector, Hardware, USB Charging Port	White	32"	4"	1"	**39UR46**

Cracked Ice



Prismatic



Egg Crate



Polymershapes

LEXAN™ Tough. Virtually Unbreakable

Replacement Light Panels

Full panels for 2-ft. x 4-ft. fluorescent fixtures lay into the T-bar grid under the fixture.

Type	Material	Description	L (in.)	W (in.)	Panel Thickness (in.)	Brand	PKG. QTY. 1 Item No.	PKG. QTY. 5 Item No.	PKG. QTY. 20 Item No.
Cracked Ice	Acrylic	Clear	47¾	23¾	0.060	Polymershapes	—	**4VZJ5**	**4VZH9**
Prismatic	Acrylic	Clear	47¾	23¾	0.095	Polymershapes	—	**4VZJ2**	**4VZH6**
	Acrylic	White	47¾	23¾	0.095	Polymershapes	—	**4VZJ4**	**4VZH8**
	Polycarbonate	Textured	48	24	0.125	Lexan	**3GYC1**	—	—
	Polycarbonate	Clear	96	48	0.125	Lexan	**3GYC2**	—	—
Egg Crate	Styrene	White, Grid Size ⅝ x ⅝"	47¾	23¾	0.305	Polymershapes	—	**4VZJ1**	—

Fluorescent and Xenon Undercabinet Lighting

★ LumaPro LITHONIA LIGHTING

- 120V
- Electronic ballast

Lens material is nonyellowing white acrylic on fluorescent fixtures, glass on xenon fixtures. Each includes cord; Linking Convertible fixtures include plug-in and linking cords.

Hardwired and Plug-In fixtures feature hinged and unitized wireways; xenon units have a stepdown 12V transformer and can be wired to a dimmable switch.


No. 1VNK3


No. 2ZB92


No. 2ZB95

Lamp Qty.	Lamp Type	Suggested Lamp Item No.	Lamp Incl.	Lamp Watts	Description	Switch Type	Nom. L	Nom. W	Nom. H	Brand	Item No.
Hardwired											
Fluorescent											
1	F8T5	2V235	No	8.0	—	On/Off	12¼"	5"	1¼"	LumaPro	**2ZB85**
	F8T5	2EAC5	No	8.0	Hingeable Easy Install Tray, Preheat Ballast	On/Off	12⅜"	5"	1⅛"	Lithonia Lighting	**1VNK8**
	F13T5	2V806	No	13.0	—	On/Off	21¼"	5"	1¼"	LumaPro	**2ZB87**
	F13T5	2EAC6	No	13.0	Hingeable Easy Install Tray, Preheat Ballast	On/Off	21⅜"	5"	1⅛"	Lithonia Lighting	**1VNK9**
	F15T8	1V173	No	15.0	—	On/Off	18¼"	4"	1½"	LumaPro	**2ZB86**
	F15T8	1V173	No	15.0	Electronic Ballast	On/Off	18⅜"	4"	1⅜"	Lithonia Lighting	**1VNK3**
	F17T8	4XMK6	No	17.0	—	On/Off	24⅛"	4"	1½"	LumaPro	**2ZB89**
	F17T8	3GXP8	No	17.0	Electronic Ballast	On/Off	24⅜"	4"	1⅜"	Lithonia Lighting	**1VNK4**
	F25T8	4XML3	No	25.0	—	On/Off	36⅛"	4"	1½"	LumaPro	**2ZB91**
	F25T8	3GXR3	No	25.0	Electronic Ballast	On/Off	36⅜"	4"	1⅜"	Lithonia Lighting	**1VNK5**
	F32T8	4XMJ1	No	32.0	—	On/Off	48⅛"	4"	1½"	LumaPro	**2ZB93**
	F32T8	2ETU3	No	32.0	Electronic Ballast	On/Off	48⅜"	4"	1⅜"	Lithonia Lighting	**1VNK6**
2	F8T5	2V235	No	8.0	—	On/Off	24½"	5"	1¼"	LumaPro	**2ZB88**
	F8T5, F13T5	2V235/2V806	No	21.0	—	On/Off	33¼"	5"	1¼"	LumaPro	**2ZB90**
	F13T5	2V806	No	13.0	—	On/Off	42¼"	5"	1¼"	LumaPro	**2ZB92**
Convertible											
Xenon											
1	12V18W Wedge Base	2FME6	Yes	18.0	—	High/Low/Off	9½"	3½"	1⅛"	LumaPro	**22C473**
	120V20W G8	—	Yes	20.0	—	High/Low/Off	7⅜"	3⅜"	1¼"	LumaPro	**22C477**
Plug-In											
Fluorescent											
1	F13T5	2V806	No	13.0	5 ft. 18/2 Cord	On/Off	21¼"	5"	1¼"	LumaPro	**2ZB96**
	F15T8	1V173	No	15.0	5 ft. 18/2 Cord	On/Off	18¼"	5¼"	1½"	LumaPro	**2ZB95**
	F15T8	1V173	No	15.0	—	On/Off	18¼"	4"	1½"	LumaPro	**23NU66**
	F17T8	4Xmk6	No	17.0	—	On/Off	24⅛"	4"	1½"	LumaPro	**23NU67**
	F25T8	4XML3	No	25.0	—	On/Off	36⅛"	4"	1½"	LumaPro	**23NU68**
	F32T8	4XMJ1	No	32.0	5 ft. 18/2 Cord	On/Off	48⅛"	5¼"	1½"	LumaPro	**2ZE12**
	F32T8	4XMJ1	No	32.0	—	On/Off	48⅛"	4"	1½"	LumaPro	**23NU69**
2	F8T5	2V235	No	8.0	5 ft. 18/2 Cord	On/Off	24½"	5"	1¼"	LumaPro	**2ZB97**
	F8T5, F13T5	2V235/2V806	No	—	5 ft. 18/2 Cord	On/Off	33¼"	5"	1¼"	LumaPro	**2ZB99**
	F13T5	2V806	No	13.0	5 ft. 18/2 Cord	On/Off	42¼"	5"	1¼"	LumaPro	**2ZE11**
	F13T5	2V806	No	13.0	—	On/Off	42¼"	5"	1¼"	LumaPro	**23NU65**

Fluorescent Wall Bracket Fixtures

★ LumaPro LITHONIA LIGHTING

- Mount horizontally on wall (General-Grade All-Purpose can also be mounted vertically and on ceiling)
- Lamps not included

GENERAL-GRADE ALL-PURPOSE

- Up and down light
- White opal acrylic diffuser

For multipurpose areas such as corridors, utility rooms, and lavatories where high vertical illumination is required. White finish. Lithonia fixtures feature easy-maintenance design with standard spring-loaded endcaps, for easy diffuser removal without tools.

PREMIUM-GRADE COMMERCIAL

- Direct or direct/indirect light
- Tinted acrylic snap-in diffuser (prismatic pattern)

For areas that require contemporary, low-profile lighting. No tools required for relamping. White finish. Lithonia fixtures feature detachable, hinged electrical service tray for easy installation and maintenance.


No. 2YMY2


No. 2UWX6


No. 5YA87

Lamp Qty.	Lamp Type	Lamp Watts	Max. Fixture Wattage	Fixture Voltage	Ambient Temp. Range	Nom. L	Nom. W	Nom. H	Description/ Special Features	Series	Brand	Item No.
General Grade All-Purpose, Electronic Ballast												
1	F17T8	17.0	17.0	120	0 to 104°F	24"	4⅝"	4½"	—	—	LumaPro	**2UWX7**
	F17T8	17.0	22.0	120	0 to 104°F	24"	4⅝"	4½"	Grounded Outlet, On/Off Pull Switch	WC	Lithonia Lighting	**5YA83**
	F32T8	32.0	31.0	120 to 277	0 to 104°F	48"	4⅝"	4½"	General Grade All Purpose, Electronic Ballast	WC	Lithonia Lighting	**3XY92**
	F32T8	32.0	25.0	120	0 to 104°F	48"	4⅝"	4½"	Grounded Outlet, On/Off Pull Switch	WC	Lithonia Lighting	**5YA81**
	F54T5	54.0	62.0	120 to 277	0 to 104°F	48"	4⅝"	4⅝"	General Grade All Purpose, Electronic Ballast	WC	Lithonia Lighting	**4MZX3**
2	F17T8	17.0	32.0	120 to 277	0 to 104°F	24"	4⅝"	4½"	General Grade All Purpose, Electronic Ballast	WC	Lithonia Lighting	**2YMY2**
	F17T8	17.0	39.0	120	0 to 104°F	24"	4⅝"	4½"	Grounded Outlet, On/Off Pull Switch	WC	Lithonia Lighting	**5YA85**
	F25T8	25.0	53.0	120	0 to 104°F	36"	4⅝"	4½"	Grounded Outlet, On/Off Pull Switch	WC	Lithonia Lighting	**5YA86**
	F32T8	32.0	47.0	120 to 277	0 to 104°F	48"	4⅝"	4½"	General Grade All Purpose, Electronic Ballast	WC	Lithonia Lighting	**3XY93**
	F32T8	32.0	55.0	120	0 to 104°F	48"	4⅝"	4½"	Grounded Outlet, On/Off Pull Switch	WC	Lithonia Lighting	**5YA82**
	F32T8	32.0	58.0	120 to 277	0 to 104°F	48½"	5½"	3²¹⁄₆₄"	—	—	LumaPro	**2UWX6**
	F32T8	32.0	55.0	120 to 277	0 to 104°F	48⅜"	7"	5³¹⁄₁₆"	Contemporary wall bracket	W	Lithonia Lighting	**3XY91**
General Grade All-Purpose, Magnetic Ballast												
2	F20T12	20.0	36.0	120	32 to 104°F	24"	4⅝"	4½"	—	—	LumaPro	**2UWX3**
Premium Grade Commercial, Electronic Ballast												
2	F32T8	32.0	58.0	120 to 277	0 to 104°F	48½"	5½"	3²¹⁄₆₄"	—	—	LumaPro	**2UWX4**
	F32T8	32.0	58.0	120	0 to 104°F	48½"	5½"	3²¹⁄₆₄"	—	—	LumaPro	**2UWY2**
	F32T8	32.0	55.0	120 to 277	0 to 104°F	48⁷⁄₁₆"	7¼"	3¼"	General Grade All Purpose, Electronic Ballast, Downlight Only	WP	Lithonia Lighting	**3XY77**
	F32T8	32.0	48.0	120	0 to 104°F	48⁷⁄₁₆"	7¼"	3¼"	Grounded Outlet, On/Off Pull Switch	WP	Lithonia Lighting	**5YA87**



Fluorescent Strip Lights

- **Painted surfaces have a high-gloss, baked white finish**

Lithonia models with MV ballast are NEMA Premium® and CEE Qualified.

NARROW

Use in cove, storage areas, and other light-duty applications. Suitable for surface or suspended mounting; can be single or row mounted.

SIDE-MOUNT

For low-profile, cove, and general-purpose applications.

HEAVY-DUTY

Gripper back channel feature provides strength; allows additional mounting options, while the premium row aligner (included) allows for continuous row mounting. Larger end plates protect lamp holders from damage.

GENERAL-PURPOSE

End plates allow continuous row mounting.

LOW-PROFILE

Suitable for general and premium illumination in surface or suspended applications; can be single or row mounted in tight spaces. 3-point row aligner allows straighter continuous row mounting. Gripper back feature offers stronger construction than typical strips.

Z STRIP

Suitable for surface or suspended applications. Nos. 16U234, 16U235, and 16U233 have instant-start ballasts. Snap-together components. Not for continuous row mounting

Lamp Qty.	Lamp Type	Suggested Lamp Item No.	Fixture Wattage	Voltage	Ambient Temp. Range	L	W	H	Foot-notes	Series	Brand	Item No.
Narrow												
1	F15T12	2V429	21	120	50 to 104°F	18"	2¾"	2¾"	1	—	LumaPro	**2UWR3**
	F25T8	3GXR3	23	120-277	0 to 104°F	36"	2¾"	1¾"	2,9	C	Lithonia Lighting	**2MZG6**
	F32T8	2ETU3	30	120-277	0 to 104°F	48"	3¼"	2"	2	—	LumaPro	**2UWR7**
		4XMJ4	30	120-277	0 to 104°F	48"	2¾"	1¾"	2,9	Z	Lithonia Lighting	**3XY81**
2	F17T8	3GXP8	33	120	0 to 104°F	24"	4³⁄₁₆"	2⅛"	2,9	C	Lithonia Lighting	**5YA61**
	F25T8	3GXR3	40	120	0 to 104°F	36"	4³⁄₁₆"	2⅛"	2,9	C	Lithonia Lighting	**5YA62**
	F32T8	2ETU3	38	120-277	0 to 104°F	96"	2¾"	1¾"	2,8,9	TS	Lithonia Lighting	**3XY88**
Side-Mount												
1	F25T8	4XML2	23	120	0 to 104°F	36"	4¾"	1⅞"	2	—	LumaPro	**2UWT3**
	F32T8	4XMJ4	30	120-277	0 to 104°F	48"	4¾"	1⅞"	2	—	LumaPro	**2UWT7**
2	F17T8	4XMK5	34	120	0 to 104°F	24"	5⅜"	1⅞"	2	—	LumaPro	**2UWT1**
	F20T12	6NB14	36	120	50 to 104°F	24"	5"	1⅞"	3	—	LumaPro	**2UWT5**
	F32T8	4XMJ4	58	120-277	0 to 104°F	48"	5"	1⅞"	2	—	LumaPro	**2UWT8**
Heavy-Duty												
1	F54T5HO	5AE35	62	120-277	0 to 104°F	48"	4⅜"	3"	2	UNS	Lithonia Lighting	**4MRR9**
	F96T12HO	2F964	205	120-277	-20 to 104°F	96"	4⅜"	3"	2	UNS	Lithonia Lighting	**4MRT2**
2	F32T8	2ETU3	58	120-277	0 to 104°F	48"	4⅜"	3"	2,9	UNS	Lithonia Lighting	**5YA64**
	F48T12HO	3V443	125	120-277	-20 to 104°F	48"	4⅜"	3"	2	UNS	Lithonia Lighting	**4MRT3**
	F54T5HO	5AE35	120	120-277	0 to 104°F	48"	4⅜"	3"	2	UNS	Lithonia Lighting	**4MRR7**
		5AE35	120	120-277	0 to 104°F	96"	4⅜"	3"	2,8	TUN	Lithonia Lighting	**4MRT1**
	F96T12HO	492Y03	205	120-277	-20 to 104°F	96"	4⅜"	3"	2	UNS	Lithonia Lighting	**4MRT4**
4	F96T8	1NZ23	110	120-277	32 to 104°F	96"	4⅜"	3"	2	UNS	Lithonia Lighting	**5YA65**
	F32T8	2ETU3	128	120-277	0 to 104°F	96"	4⅜"	3"	2	UNS	Lithonia Lighting	**6MGG1**
	F54T5HO	5AE35	240	120-277	0 to 104°F	96"	4⅜"	3"	2,8	TUN	Lithonia Lighting	**4MRR8**
General Purpose												
1	F96T8	1NZ23	68	120-277	32 to 104°F	96"	4³⁄₁₆"	2⅞"	2,9	C	Lithonia Lighting	**5YA63**
2	F17T8	6XT99	33	120-277	0 to 104°F	24"	4⅜"	2¹⁄₁₆"	2	C	Lithonia Lighting	**4MRU8**
	F25T8	4XML2	44	120-277	0 to 104°F	36"	4⅜"	2¹⁄₁₆"	2	C	Lithonia Lighting	**4MRU9**
	F32T8	2ETU3	50	120	0 to 104°F	48"	4⅜"	3"	9	C	Lithonia Lighting	**2MZG3**
		4XMJ4	58	120-277	0 to 104°F	48"	4³⁄₁₆"	2¹⁵⁄₁₆"	2	—	LumaPro	**2UWU3**
		2ETU3	58	120-277	0 to 104°F	48"	4³⁄₁₆"	2⅞"	2,9	C	Lithonia Lighting	**3YA20**
	F96T8	2D002	110	120-277	32 to 104°F	96"	4³⁄₁₆"	2¹⁵⁄₁₆"	2	—	LumaPro	**2UWU5**
		1NZ23	114	120-277	32 to 104°F	96"	4³⁄₁₆"	2⅞"	2	C	Lithonia Lighting	**3YA21**
	T8	3vk30	32	120-277	0 to 77F	96"	4⅜"	2 -1/16"	—	C	Lithonia Lighting	**40L068**
4	F32T8	2ETU3	112	120-277	0 to 104°F	96"	4³⁄₁₆"	2⅛"	2,8,9	TC	Lithonia Lighting	**3XY85**
Low Profile												
1	F28T5	5AE20	33	120-277	-20 to 104°F	46"	2⅛"	1½"	2	Z	Lithonia Lighting	**4MRT9**
	F54T5HO	5AE35	62	120-277	-20 to 104°F	46"	2⅛"	1½"	2	Z	Lithonia Lighting	**4MRT5**
2	F28T5	5AE20	64	120-277	0 to 104°F	46"	2⅛"	1½"	2	Z	Lithonia Lighting	**4MRU1**
	F54T5HO	5AE35	120	120	-20 to 104°F	46"	2⅛"	1½"	2	Z	Lithonia Lighting	**4MRT6**
		5AE35	120	120-277	-20 to 104°F	92"	2⅛"	1½"	2,8	TZ	Lithonia Lighting	**4MRT7**
4		5AE35	240	120-277	-20 to 104°F	92"	2⅛"	1½"	2	TZ	Lithonia Lighting	**4MRT8**
Z Strip												
1	F15T8	1E012	15	120	0 to 104°F	18"	1¾"	2¼"	1	Z	Lithonia Lighting	**16U238**
2	17WT8	6XV01	30	120/277	0 to 104°F	24"	2¼"	1¼"	—	Z	Lithonia Lighting	**16U234**
	32WT8	3CA64	58	120/277	0 to 104°F	48"	2¼"	1¼"	—	Z	Lithonia Lighting	**16U233**
4	25WT8	3CA64	28	120/277	0 to 104°F	96"	2¼"	1¼"	—	Z	Lithonia Lighting	**16U235**

Footnotes: 1—Preheat, separate starter required. 2—Electronic ballast. 3—High power factor. 7—Staggered. 8—Tandem. 9—Rotating locking lamp socket.

LED Strip Lighting

- 120 to 277V

LED luminaires are an energy-efficient, low maintenance alternative to traditional fluorescent lighting.

GE

Mount at 20 feet or lower in commercial, low bay lighting applications. Match with motion, daylight, and wireless controls (sold separately) for increased energy savings.

Albeo™ ALC Series—The Albeo™ ALC5 Series has a rugged extruded aluminum housing and a precision lens system that optimizes light distribution. White polyester powder coat finish. Surface mount.

Albeo™ ALV Series—Albeo™ ALV1-series LED luminaires have directional LEDs that let you put light where it's needed. Stamped metal housing. Surface or chain mount.

HUBBELL

CSL Series—With a frosted acrylic lens, and fully assembled for quick installation. Excellent for commercial indoor, classroom, conference room, and similar applications. Surface mount on wall or ceiling.

LCL Series—A formed acrylic lens helps eliminate pixilation and reduce glare. Excellent for anywhere aesthetics are not essential. Surface, wall, or suspended mount.

LCS Series—Utilitarian strip has a heavy die-formed steel channel; excellent for back-of-house use. Designed for simple maintenance and upgrades. Surface or suspended mount.

LSRK Series—LSRK retrofit kits are designed to fit into most 4-4.25" and 5-5.25" wide linear housing channels with minimum dimensional requirements.

LITHONIA

All fixtures have a cold-rolled steel housing.

CDS Series—Designed for one-for-one replacement of fluorescent strip lights in retail, warehouse, and office applications. Feature a polycarbonate lens. Surface or suspended mount.

CLX Series—Can be continuous row mounted or installed as a stand-alone fixture. Ideal for commercial, manufacturing, warehouse, and display applications. Acrylic lens and injection molded endcaps. Wall, pendant, or stem ceiling mount.

MNSL Series—Damp location strip light simulates the look of traditional fluorescent tube fixtures. Diffuse polycarbonate lens. Surface or suspension mount.

ZL1D Series—Drop lens fixtures provide a clean look for commercial or architectural applications. Intentional uplighting helps minimize the cave effect. Snap-on/snap-off lens. Surface, pendant, or stem mount.

ZL1N Series—Ideal for both uplighting and downlighting in new construction and retrofit applications. Fixtures have a standard diffuse snap-on/snap-off lens, and can be surface, pendant, or stem mounted.


No. 53VU13


No. 488U53


No. 53VT87


No. 483U02


No. 454X20


No. 405D77


No. 22CK45


No. 36UX13

Watts	Color Index	Emergency Battery Backup	Dimmable	DesignLights Consortium (DLC)	Fixture Rated Life	Temp. Range	L	W	3500K Lumens Per Watt	3500K Lumens	3500K Item No.	4000K Lumens Per Watt	4000K Lumens	4000K Item No.	5000K Lumens Per Watt	5000K Lumens	5000K Item No.
GE Lighting																	
Albeo™ ALC Series																	
38.0	70.0	No	Yes	Yes	100,000 hr.	-30° to 55°C	48"	2⅜"	—	—	—	131.5	5000	**48TL79**	131.5	5000	**48TL80**
111.0	70.0	No	Yes	Yes	100,000 hr.	-30° to 55°C	48"	2⅜"	—	—	—	—	—	—	72.0	8000	**48TL82**
	70.0	No	Yes	Yes	100,000 hr.	-30° to 55°C	96"	2⅜"	—	—	—	144.1	16,000	**48TL87**	144.1	16,000	**48TL88**
Albeo™ ALV Series																	
38.0	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	48"	3⅛"	—	—	—	131.5	5000	**49EN84**	131.5	5000	**49EN85**
	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	96"	3⅛"	—	—	—	263.1	10,000	**49EN90**	263.1	10,000	**49EN91**
41.0	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	48"	3⅛"	—	—	—	73.1	3000	**49EN82**	73.1	3000	**49EN83**
	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	48"	3⅛"	—	—	—	195.1	8000	**49EN88**	195.1	8000	**49EN89**
111.0	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	48"	3⅛"	—	—	—	54.0	6000	**49EN86**	54.0	6000	**49EN87**
	70.0	No	Yes	Yes	100,000 hr.	-30° to 45°C	96"	3⅛"	—	—	—	144.1	16,000	**49EN92**	144.1	16,000	**49EN93**
Hubbell Lighting - Columbia																	
CSL Series																	
40.0	80.0	No	Yes	Yes	55,000 hr.	-20° to 25°C	48"	2¼"	—	—	—	112.0	4500	**488U52**	—	—	—
80.0	80.0	No	Yes	Yes	55,000 hr.	-20° to 25°C	96"	2¼"	—	—	—	112.0	9000	**488U53**	—	—	—
LCL Series																	
19.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4½"	140.0	2600	**53VT88**	—	—	—	140.0	2600	**53VT97**
	80.0	Yes	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4½"	—	—	—	140.0	2600	**53VT93**	—	—	—
24.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	24"	4½"	—	—	—	121.0	2800	**53VT87**	—	—	—
38.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	96"	4½"	—	—	—	142.0	5300	**53VU05**	—	—	—
42.0	80.0	Yes	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4½"	—	—	—	129.0	5400	**53VT95**	—	—	—
52.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4½"	—	—	—	126.0	6550	**53VT96**	126.0	6550	**53VU02**
84.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	96"	4½"	129.0	10,500	**53VU03**	—	—	—	129.0	10,500	**53VU10**
104.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	96"	4½"	—	—	—	126.0	13,000	**53VU08**	126.0	13,000	**53VU12**
LCS Series																	
23.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	24"	4 7/16"	127.0	3000	**53VU13**	131.0	3000	**53VU14**	—	—	—
42.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4 7/16"	134.0	5600	**53VU15**	136.0	5600	**53VU17**	—	—	—
52.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	48"	4 7/16"	130.0	6850	**53VU16**	132.0	6850	**53VU18**	—	—	—
83.0	80.0	No	Yes	Yes	50,000 hr.	-20° to 25°C	96"	4 7/16"	—	—	—	136.0	11,300	**53VU19**	—	—	—
LSRK Series																	
33.0	80.0	No	Yes	Yes	—	-20° to 25°C	48"	4"	126.0	4100	**56FH65**	128.0	4200	**56FH66**	—	—	—
MPS Series																	
40.0	80.0	No	Yes	Yes	60,000 hr.	-25° to 35°C	48"	3"	114.0	4500	**656N90**	115.0	4600	**656N91**	115.0	4600	**656N92**
80.0	80.0	No	Yes	Yes	60,000 hr.	-25° to 35°C	96"	3"	—	—	—	115.0	9200	**656N93**	—	—	—
Lithonia Lighting																	
CDS Series																	
38.0	80.0	No	Yes	No	60,000 hr.	-40° to 35°C	48"	2½"	109.0	4146	**483U02**	111.0	4211	**483U03**	115.0	4366	**483U04**
77.0	80.0	No	Yes	No	60,000 hr.	-40° to 35°C	96"	2½"	115.0	8872	**483U05**	117.0	9010	**483U06**	121.0	9342	**483U07**
CLX Series																	
20.0	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	48"	3½"	—	—	—	138.0	2812	**454X20**	141.3	2879	**454X21**
	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	48"	3½"	—	—	—	142.0	2895	**454X28**	145.9	2963	**454X29**
34.8	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	48"	3½"	—	—	—	135.1	4701	**454X22**	138.0	4813	**454X23**
	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	48"	3½"	—	—	—	139.0	4839	**454X30**	142.0	4954	**454X31**
38.2	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	96"	3½"	—	—	—	145.9	5535	**454X24**	148.0	5667	**454X25**
	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	96"	3½"	—	—	—	149.2	5697	**454X32**	150.4	5832	**454X33**
65.0	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	96"	3½"	—	—	—	137.0	9137	**454X26**	140.1	9354	**454X27**
	80.0	No	Yes	No	60,000 hr.	-20° to 40°C	96"	3½"	—	—	—	141.3	9404	**454X34**	143.1	9627	**454X35**
MNSL Series																	
50.0	88.0	No	No	No	50,000 hr.	-40° to 95°F	46"	1¾"	—	—	—	87.5	2100	**22CK45**	—	—	—
ZL1D Series																	
22.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	24"	2¼"	124.6	2742	**405D86**	126.6	2785	**405D87**	131.2	2887	**405D88**
30.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2¼"	132.2	3966	**405D77**	134.3	4028	**405D78**	139.2	4176	**405D79**
36.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	24"	2¼"	116.4	4190	**405D89**	118.2	4255	**405D90**	122.6	4412	**405D91**
41.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2¼"	133.1	5456	**405D80**	135.1	5541	**405D81**	140.1	5745	**405D82**
59.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2¼"	126.8	7480	**405D83**	128.7	7596	**405D84**	133.5	7876	**405D85**
60.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	96"	2¼"	—	—	—	139.8	8386	**405D92**	—	—	—
81.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	96"	2¼"	—	—	—	141.3	11,442	**405D94**	—	—	—
121.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	96"	2¼"	—	—	—	132.1	15,986	**405D93**	—	—	—
ZL1N Series																	
15.0	80.0	No	Yes	Yes	60,000 hr.	-20° to 30°C	96"	2⅛"	—	—	—	134.0	14,000	**38GT87**	—	—	—
25.0	83.0	No	Yes	No	100,000 hr.	-4° to 86°F	24"	2⅛"	—	—	—	120.0	2655	**26X695**	—	—	—
	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2⅛"	—	—	—	131.0	3293	**36UX13**	—	—	—
34.0	80.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2⅛"	—	—	—	125.0	5265	**36UX12**	—	—	—
52.0	83.0	No	Yes	Yes	100,000 hr.	-4° to 86°F	48"	2⅛"	—	—	—	110.0	7431	**26X694**	—	—	—



LITHONIA LIGHTING® ★ LumaPro®

Low Bay Fluorescent Industrial and Shop Lights

- **Lamp not included**

Heavy duty construction; code gauge steel. Painted surfaces have a high-gloss, baked white polyester finish. Lithonia models with MV ballast are NEMA Premium® and CEE Qualified.

GENERAL-PURPOSE PREMIUM SERIES

- **For mounting heights up to 20 ft.**

Embossed reflectors are suitable for most industrial-type applications. Premium row aligner (included), allows continuous row mounting. Gripper Back Channel feature offers additional mounting options.

GENERAL-PURPOSE STANDARD SERIES

- **For mounting heights up to 16 ft.**

12" reflector offers suitable illumination for light-duty direct or suspended applications; can be single or row mounted. Solid-top reflector style (nonapertured) for general lighting; apertured models offer 8% uplight

HEAVY-DUTY

- **For mounting heights up to 25 ft.**

Spring-loaded turret sockets hold lamps securely in place, while the heavy-duty spin nut fasteners secure reflector to channel. Gripper Back Channel feature offers additional mounting options. Apertured models offer 20% uplight.

SHOP LIGHTS

Lights offer reliable ballast operation and reduced noise. Sturdy, thick-gauge steel for durability. Fully assembled; include mounting hardware and power cord. C-UL Listed.

No. of Light Bars	Lamp Type	Lamp Watts	Max. Fixture Wattage	Fixture Voltage	Description/ Special Features	Temp. Range	Fixture Length	Fixture Width	Fixture Height	Suggested Lamp Item No.	Reflector Type	Brand	Fixture Series	Item No.
General Purpose Premium Series														
	F32T8	32.0	56.0	120 to 277	Heavy-Duty Strip	32° to 104°F	48"	12"	4¼"	2ETU3	Non-Apertured	Lithonia Lighting	EJS	**2MZC8**
	F32T8	32.0	56.0	120 to 277	Heavy-Duty Strip	32° to 104°F	48"	12"	4¼"	2ETU3	Apertured	Lithonia Lighting	EJSA	**2MZD1**
2	F32T8	32.0	64.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	48 31/64"	5⅝"	2⅛"	21GR01	Non-Apertured	LumaPro	—	**35GW82**
	F32T8	32.0	64.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	48 31/64"	5⅝"	2⅛"	21GR01	Apertured	LumaPro	—	**35GW84**
	F96T8	59.0	104.0	120 to 277	Heavy-Duty Strip	32° to 104°F	96"	12"	4¼"	1NZ23	Non-Apertured	Lithonia Lighting	EJS	**2MZC9**
	F32T8	28.0	95.0	120 to 277	Heavy-Duty Strip	0° to 104°F	48"	12"	5¼"	2ETU3	Non-Apertured	Lithonia Lighting	EJ	**2MZC5**
3	F32T8	32.0	96.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	48 31/64"	8 21/32"	2⅛"	21GR01	Non-Apertured	LumaPro	—	**35GW81**
	F32T8	28.0	109.0	120 to 277	Tandem	32° to 104°F	96"	12"	4¼"	2ETU3	Non-Apertured	Lithonia Lighting	TEJS	**2MZD7**
	F32T8	109.0	56.0	120 to 277	Tandem	32° to 104°F	96"	12"	4¼"	2ETU3	Apertured	Lithonia Lighting	TEJSA	**2MZD8**
	F32T8	28.0	113.0	120 to 277	Heavy-Duty Strip	0° to 104°F	48"	16"	5½"	2ETU3	Apertured	Lithonia Lighting	EJA	**5YA68**
4	F32T8	28.0	113.0	120 to 277	Heavy-Duty Strip	0° to 104°F	48"	16"	5½"	2ETU3	Non-Apertured	Lithonia Lighting	EJ	**5YA70**
	F32T8	32.0	128.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	48 31/64"	8 21/32"	2⅛"	21GR01	Non-Apertured	LumaPro	—	**35GW80**
	F32T8	32.0	128.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	96 15/32"	5⅝"	2⅛"	21GR01	Non-Apertured	LumaPro	—	**35GW83**
	F96T8	57.0	338.0	120 to 277	Heavy-Duty Strip	32° to 104°F	96"	16"	5½"	1NZ23	Apertured	Lithonia Lighting	EJA	**5YA69**
	F96T8	57.0	338.0	120 to 277	Heavy-Duty Strip	32° to 104°F	96"	16"	5½"	1NZ23	Non-Apertured	Lithonia Lighting	EJ	**5YA71**
General Purpose Standard Series														
1	F32T8	32.0	28.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	32° to 104°F	48"	12"	4"	2ETU3	Non-Apertured	Lithonia Lighting	L1	**2MZD6**
	F32T8	32.0	54.0	120 to 277	Tandem	32° to 104°F	96"	12"	4"	2ETU3	Non-Apertured	Lithonia Lighting	TL	**2MZD9**
	F32T8	32.0	60.0	120 to 277	—	0° to 104°F	48"	10"	4"	2ETU3	Non-Apertured	LumaPro	—	**2NAW9**
	F32T8	28.0	49.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	0° to 104°F	48"	12"	4"	2ETU3	Non-Apertured	Lithonia Lighting	L2	**3XY70**
	F32T8	28.0	49.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	0° to 104°F	48"	12"	4"	2ETU3	Apertured	Lithonia Lighting	LA	**3XY72**
2	F96T8	59.0	112.0	120 to 277	—	32° to 104°F	96"	10"	4"	2D002	Apertured	LumaPro	—	**2NAX3**
	F96T8	57.0	100.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	32° to 104°F	96"	12"	4"	36H784	Non-Apertured	Lithonia Lighting	L2	**3XY71**
	F96T8	57.0	100.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	32° to 104°F	96"	12"	4"	1NZ23	Apertured	Lithonia Lighting	LA	**3XY73**
	F96T8HO	86.0	146.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	-20° to 158°F	96"	12"	4"	2F956	Non-Apertured	Lithonia Lighting	L2	**2LYX5**
	F96T8HO	86.0	146.0	120 to 277	Non-tandem Industrial Fluorescent Fixture	50° to 104°F	96"	12"	4"	2F956	Apertured	Lithonia Lighting	LA	**2LYX6**
	F32T8	32.0	112.0	120 to 277	Tandem	0° to 104°F	96"	10"	4"	2ETU3	Non-Apertured	LumaPro	—	**2NAX4**
4	F32T8	32.0	112.0	120 to 277	Tandem	0° to 104°F	96"	10"	4"	2ETU3	Apertured	LumaPro	—	**2NAX5**
	F32T8	32.0	113.0	120 to 277	Tandem	0° to 104°F	96"	12"	4"	2ETU3	Non-Apertured	Lithonia Lighting	TL	**3XY86**
	F32T8	32.0	113.0	120 to 277	Tandem	0° to 104°F	96"	12"	4"	2ETU3	Apertured	Lithonia Lighting	TLA	**3XY87**
Heavy Duty T5 Series														
2	F54T5HO	54.0	108.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	48"	13¾"	6⅝"	2EAF8	Apertured	Lithonia Lighting	AFP	**5YA77**
3	F54T5HO	54.0	162.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	48"	13⅜"	6⅝"	2EAF8	Apertured	Lithonia Lighting	AFP	**5YA79**
4	F54T5HO	54.0	216.0	120 to 277	Tandem	0° to 104°F	96"	13⅜"	6⅝"	2EAF8	Apertured	Lithonia Lighting	TAF	**5YA78**
Heavy Duty T8 Series														
	F32T8	32.0	56.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	48"	13⅜"	6⅝"	2ETU3	Apertured	Lithonia Lighting	AF	**3YA17**
	F32T8	32.0	56.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	48"	13⅜"	6⅝"	2ETU3	Non-Apertured	Lithonia Lighting	AFST	**5YA74**
2	F32T8	32.0	64.0	120 to 277	Heavy Duty Turret Industrial	0° to 25°C	49 51/64"	13⅜"	6⅝"	Mfr. No. F32T8/ SPX41/ECO	Non-Apertured	Lithonia Lighting	AFST	**40L063**
	F32T8	32.0	64.0	120 to 277	Heavy Duty Turret Industrial, Tandem	0° to 25°C	99 39/64"	13⅜"	6⅝"	Mfr. No. F32T8/ SPX41/ECO	Non-Apertured	Lithonia Lighting	TAFST	**40L065**
	F96T8	57.0	104.0	120 to 277	Heavy Duty Turret Industrial	32° to 104°F	96"	13⅜"	6⅝"	1NZ23	Apertured	Lithonia Lighting	AF	**3YA18**
	F96T8	57.0	114.0	120 to 277	Heavy Duty Turret Industrial	32° to 104°F	96"	13⅜"	6⅝"	1NZ23	Non-Apertured	Lithonia Lighting	AFST	**5YA75**
	F96T8HO	86.0	172.0	120 to 277	Heavy Duty Turret Industrial	50° to 104°F	96"	13⅜"	6⅝"	2F956	Apertured	Lithonia Lighting	AF	**2LYX7**
3	F32T8	32.0	84.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	48"	13⅜"	6⅝"	2ETU3	Apertured	Lithonia Lighting	AF	**5XY77**
	F32T8	32.0	113.0	120 to 277	Heavy Duty Turret Industrial	0° to 104°F	96"	13⅜"	6⅝"	2ETU3	Apertured	Lithonia Lighting	TAF	**3XY84**
	F32T8	32.0	113.0	120 to 277	Tandem	0° to 104°F	96"	13⅜"	6⅝"	2ETU3	Non-Apertured	Lithonia Lighting	TAFST	**5YA76**
4	F32T8	32.0	128.0	120 to 277	Electronic Ballast, Meter Cord, Heavy Duty	0° to 104°F	96 19/64"	4 21/32"	2⅛"	21GR01	Non-Apertured	LumaPro	—	**35GW87**
	F32T8	32.0	128.0	120 to 277	Heavy Duty Turret Industrial, Tandem	0° to 25°C	99 39/64"	13⅜"	6⅝"	Mfr. No. F32T8/ SPX41/ECO	Non-Apertured	Lithonia Lighting	TAFST	**40L064**
6	F32T8	32.0	169.0	120 to 277	Tandem	0° to 104°F	96"	13⅜"	6⅝"	2ETU3	Apertured	Lithonia Lighting	TAF	**5XY74**
Shop Lights														
1	F17T8	17.0	17.0	120 to 277	Electronic Ballast, Meter Cord, with Plug	0° to 104°F	38 1/32"	24"	3 9/64"	21GR04	Non-Apertured	LumaPro	—	**35GW89**
	F32T8	17.0	17.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	38 1/32"	24"	3 9/64"	21GR04	Non-Apertured	LumaPro	—	**35GW94**
	F14T5	14.0	28.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	38 1/32"	24"	3 9/64"	2EAG5	Non-Apertured	LumaPro	—	**35GW95**
	F17T8	17.0	30.0	120	Non-tandem Industrial Fluorescent Fixture	0° to 104°F	24"	12"	4"	3GXP8	Non-Apertured	Lithonia Lighting	L2	**5YA72**
	F28T5	28.0	56.0	120 to 277	Electronic Ballast, Meter Cord, with Plug	0° to 104°F	61 21/32"	24"	3 9/64"	21GR01	Non-Apertured	LumaPro	—	**35GW91**
	F28T5	35.0	70.0	120 to 277	Electronic Ballast, Meter Cord, with Plug	0° to 104°F	72"	24"	3 9/64"	5AE23	Non-Apertured	LumaPro	—	**35GW92**
2	F28T5	35.0	70.0	120 to 277	Electronic Ballast, Meter Cord	0° to 104°F	72"	24"	3 9/64"	5AE23	Non-Apertured	LumaPro	—	**35GW97**
	F32T8	28.0	56.0	120	Electronic Ballast, Cord and Chain	0° to 104°F	48"	6½"	2⅛"	2ETU3	Non-Apertured	Lithonia Lighting	1245	**1VNT5**
	F32T8	32.0	64.0	120	—	0° to 104°F	48"	8½"	2⅛"	2ETU3	Non-Apertured	LumaPro	—	**2NAW8**
	F32T8	32.0	56.0	120	Non-tandem Industrial Fluorescent Fixture	0° to 104°F	48"	12"	4"	2ETU3	Non-Apertured	Lithonia Lighting	L2	**5YA73**
	F34T12	34.0	40.0	120	—	50° to 104°F	48"	5½"	3½"	2ETU3	Non-Apertured	LumaPro	—	**5HD98**
	F40T12	40.0	68.0	120	Magnetic Ballast, Cord And Chain	50° to 104°F	48"	4¾"	3"	24W596	Non-Apertured	Lithonia Lighting	1233	**1VNT3**

High- and Low-Bay HID Fixtures

Fixtures are sold as ballast housings or complete units. Ballast housings are die-cast aluminum with baked, white polyester, powder-coated finish, and require a reflector.

Lamp Type*	Wattage	Voltage	Start Type	Ambient Temp. Range	Lamp Included	Suggested Lamp	Height	Width	Series	Item No.
HID High Bay										
MH	452	120 to 277	Protected Pulse Start	-22° to 131°F	Yes	6XV25	19½"	14⅛"	THD	**3JWJ4**
HPS	464	120 to 277	Constant Wattage	-40° to 131°F	Yes	3APT6	17½"	14⅛"	TH	**1DE99**
HID Low Bay										
MH	452	120 to 277	Protected Pulse Start	-22° to 104°F	Yes	6XV25	22"	23"	TXD	**3JWK9**
HPS	295	120 to 277	Constant Wattage	120° to 277°F	No	2V520	23"	23"	TX	**7E767**



No. 1DE99



No. 3JWK5



No. 1PLN3

Lamp Type*	Lamp Watts	Voltage	Ambient Temp. Range	H	Suggested Lamp Item No.	HID Ballast Housing Item No.	Aluminum Reflector Enclosed, 17¾" W Item No.	Acrylic Reflector Open, 22⅜" W Item No.
TH Series								
MH	250	120 to 277	-22 to 131°F	7"	5NUP1	**3JWG9**	**3EY74**	—
	320	120 to 277	-22 to 131°F	7"	6XV27	**3JWH2**	**3EY74**	**3GA46**
	350	120 to 277	-22 to 131°F	7"	5HB84	**3JWH5**	**3EY74**	**3GA46**
	400	480	-22 to 131°F	7"	6XV25	**3JWH7**	**3EY74**	**3GA46**
	400	120 to 277	-22 to 131°F	7"	6XV25	**3JWH9**	**3EY74**	**3GA46**
	400	120 to 277	-22 to 149°F	7"	6XV25	**3JWJ2**	**3EY74**	**3GA46**
HPS	250	120 to 277	-22 to 131°F	12½"	3APT5	**3GB32**	**3EY74**	**3GA46**
TPG Series								
MH	400	120 to 277	-22 to 131°F	7"	6XV25	**3JWJ5**	—	—

**** MH = metal halide, HPS = high-pressure sodium, QRS = quartz restrike.***

Lamp Type*	Lamp Watts	Voltage	Ambient Temp. Range	H	Suggested Lamp Item No.	HID Ballast Housing Item No.	Acrylic Reflector Enclosed, 22⅜" W Item No.	Aluminum Reflector Enclosed, 23" W Item No.
TX Series								
HPS	250	120 to 277	-40 to 104°F	7"	3APT5	**3GB77**	**1PLN3**	**3GU54**
MH	400	120 to 277	-22 to 104°F	7"	6XV25	**3JWK5**	**1PLN3**	**3GU54**
MH, QRS	350	120 to 277	-22 to 104°F	7"	5HB84	**3JWK2**	**1PLN3**	**3GU54**

High Bay LED Pendant Lights

HUBBELL

Suitable for wet locations.

FPH Series—Sealed LED fixture has cast-aluminum construction with a smooth exterior and no exposed fasteners. Designed for use in food processing facilities or any other any area that demands a well-sealed, smooth high-output LED fixture.

- UL Sanitation listed

HBL Series—Severe location fixture has cast-aluminum cooling fins and sealed optics. DesignLights Consortium® (DLC) qualified.

PHB Series—Well-sealed 3-pc. low copper alloy die-cast aluminum housing provides a durable, rugged high-bay lighting solution for tough industrial applications. Can be easily installed by a single person on ¾" or 1" threaded conduit.

UTB Series—Designed to light gyms, industrial, multi-purpose rooms in schools and churches and retail. Its simple, straightforward design is meant to provide high quality light economically

LITHONIA LIGHTING

JEBL Series—Fixture is built with a unique, quick-connect, driver-to-optical assembly interface that allows quick and easy maintenance. 6kV surge protection standard. Wet location listed.

JHBL Series—Designed for maintaining greater light levels in heavy industrial applications, unforgiving climates, and demanding areas. Built to withstand dust, moisture and airborne contaminants.

LUMAPRO®

With an enclosed power supply housing and covered optics, this durable unit is designed to stand up to difficult locations. Features radial aluminum heat sink fins for cool operation. A slide-out driver tray lets you service the fixture without removing it from its installation.



No. 21RV38



No. 488U83



No. 483R42



No. 30YT48



No. 53DK17

Max. Fixture Wattage	Voltage	Color Temp.	Lumens	Color Index	Fixture Mounting Height	Light Distribution	Dimmable	Lens Material	Reflector	Fixture Rated Life	Temp. Range	IP Rating	Height	Width	Item No.
Hubbell Lighting - Industrial															
CRN Series															
100.0	120/277	5000K	14600	80.0	15 to 25 ft.	Medium	Yes	—	—	200,000 hr.	-20°to 65°C	65	8"	15"	**656P02**
150.0	120/277	5000K	22000	80.0	20 to 40 ft.	Medium	Yes	—	—	200,000 hr.	-20°to 65°C	65	8"	15"	**656P03**
201.0	120/277	5000K	29000	80.0	20 to 40 ft.	Medium	Yes	—	—	200,000 hr.	-20°to 65°C	65	8"	15"	**656P04**
FPH Series															
218.0	120 to 277	5000K	24,628	80.0	30 ft.	Medium	No	Acrylic	—	100,000 hr.	-40° to 40°C	66	10⁵⁄₆₄"	19"	**45VT57**
	120 to 277	5000K	23,122	80.0	30 ft.	Medium	No	Acrylic	—	100,000 hr.	-40° to 40°C	66	10⁵⁄₆₄"	19"	**45VT56**
HBL Series															
139.0	120 to 277	5000K	14,007	68.0	30 ft.	Narrow	No	Glass	—	100,000 hr.	-40° to 55°C	56	6"	18"	**21RV38**
169.0	120 to 277	5000K	16,100	68.0	30 ft.	Wide	Yes	Acrylic	—	100,000 hr.	-40° to 55°C	56	6"	18"	**53XX70**
	120 to 277	5000K	16,100	68.0	30 ft.	Wide	Yes	Open	—	100,000 hr.	-40° to 55°C	56	6"	18"	**53XX71**
PHB Series															
154.0	120/277	4000K	21,000	80.0	12 to 20 ft.	Wide	Yes	Glass	Clear	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	15²³⁄₃₂"	**488U83**
	120/277	5000K	21,000	80.0	12 to 20 ft.	Wide	Yes	Acrylic	Frosted	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	15²³⁄₃₂"	**488U84**
216.0	120/277	4000K	25,700	80.0	15 to 35 ft.	Wide	Yes	Acrylic	Frosted	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	17⅛"	**488U85**
	120/277	5000K	28,000	80.0	15 to 35 ft.	Wide	Yes	Acrylic Prismatic	Frosted	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	19"	**488U86**
	120/277	5000K	28,000	80.0	15 to 35 ft.	Wide	Yes	Glass	Clear	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	15²³⁄₃₂"	**488U87**
	120/277	5000K	27,700	80.0	15 to 35 ft.	Wide	Yes	Acrylic	Frosted	60,000 hr.	-40° to 65°C	66	18¹⁄₃₂"	15²³⁄₃₂"	**488U88**
UTB Series															
128.0	120/277	4000K	18000	80.0	15 to 25 ft.	Medium	Yes	—	—	120,000 hr.	-35°to 55°C	Not Rated	11"	13"	**656P42**
	120/277	5000K	19000	80.0	15 to 25 ft.	Medium	Yes	—	—	120,000 hr.	-35°to 55°C	Not Rated	11"	13"	**656P44**
	120/277	4000K	19000	80.0	15 to 25 ft.	Medium	Yes	—	—	120,000 hr.	-35°to 55°C	Not Rated	11"	13"	**656P46**
168.0	120/277	4000K	24000	80.0	20 to 40 ft.	Medium	Yes	—	—	120,000 hr.	-35°to 55°C	Not Rated	11"	13"	**656P41**
	120/277	5000K	25000	80.0	20 to 40 ft.	Medium	Yes	—	—	120,000 hr.	-35°to 55°C	Not Rated	11"	13"	**656P43**
Lithonia Lighting															
JEBL Series															
91.0	120/277	4000K	13,286	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5"	13"	**483R42**
	120/277	5000K	13,286	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5"	13"	**483R43**
137.0	120/277	4000K	19,680	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5"	13"	**483R44**
	120/277	5000K	19,680	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5"	13"	**483R45**
182.0	120/277	4000K	26,558	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5⅜"	15¾"	**483R46**
	120/277	5000K	26,558	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5⅜"	15¾"	**483R47**
218.0	120/277	4000K	31,423	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5⅜"	15¾"	**483R48**
	120/277	5000K	32,824	80.0	Up to 25 ft.	Wide	Yes	Tempered Glass	Clear	55,000 hr.	-40° to 55°C	65	5⅜"	15¾"	**483R49**
JHBL Series															
131.0	120 to 277	5000K	19,179	70.0	Up to 60 ft.	Narrow	Yes	Glass	—	100,000 hr.	-40° to 149°F	65	16⅜"	22⅜"	**30YT48**
	120 to 277	5000K	19,734	70.0	Up to 60 ft.	Wide	Yes	Glass	—	100,000 hr.	-40° to 149°F	65	16⅜"	22⅜"	**30YT50**
	347 to 480	5000K	19,179	70.0	Up to 60 ft.	Narrow	Yes	Glass	—	100,000 hr.	-40° to 131°F	65	16⅜"	22⅜"	**30YT49**
	347 to 480	5000K	19,734	70.0	Up to 60 ft.	Wide	Yes	Glass	—	100,000 hr.	-40° to 131°F	65	16⅜"	22⅜"	**30YT51**
185.0	120 to 277	5000K	25,769	70.0	Up to 60 ft.	Narrow	Yes	Glass	—	100,000 hr.	-40° to 149°F	65	16⅜"	22⅜"	**30YT52**
	120 to 277	5000K	26,515	70.0	Up to 60 ft.	Wide	Yes	Glass	—	100,000 hr.	-40° to 149°F	65	16⅜"	22⅜"	**30YT54**
	347 to 480	5000K	25,769	70.0	Up to 60 ft.	Narrow	Yes	Glass	—	100,000 hr.	-40° to 131°F	65	16⅜"	22⅜"	**30YT53**
	347 to 480	5000K	26,515	70.0	Up to 60 ft.	Wide	Yes	Glass	—	100,000 hr.	-40° to 131°F	65	16⅜"	22⅜"	**30YT55**
LumaPro															
HSP Series															
94.6	120 to 277	5000K	11,900	85.0	25 ft. or Above	Wide	Yes	Polycarbonate	—	106,000 hr.	-4° to 122°F	Not Rated	24"	8⅛"	**53DK17**



No. 452N11



No. 53KD15
IBG Series



No. 48TL42
ABR1 Series



No. 48TL12
ABV3 Series



No. 53VT65
HHH Series

High Bay LED Fixtures

- 5-yr. limited warranty

Designed for manufacturing, warehousing, and other large indoor spaces. Narrow and wide distributions are offered to meet horizontal and vertical light-level requirements.

LUMAPRO®

Fixtures replace 4- or 6-lamp T5HO fluorescent high bay or 400W HID high bay fixtures. They feature a powder-coated galvanized steel housing, with a frosted acrylic lens to help minimize glare. Can be suspended mount by chain (included) or cable.

LITHONIA LIGHTING

Note: Wide Light Distribution models are available on Grainger.com®.

IBE Series—Fixtures can be mounted at heights of 18 ft. or more, and feature an aluminum housing and acrylic lens. They can be bracket, chain, cable, hook, pendant, or surface mounted. Can be used in damp locations.

IBG Series—Highly configurable fixtures can be mounted at heights up to 60 ft., and have a standard IPX5 dust-resistant diffuse lens. An outstanding choice for warehousing, manufacturing, and general industrial applications.

HUBBELL® LIGHTING

Note: Units with occupancy sensors are on Grainger.com®.

HHH Series—Wet location fixtures are a good choice for tough industrial locations.

PHB Series—Fixtures are an excellent choice for warehouses, manufacturing, gymnasiums, convention centers and other large, open commercial spaces. Can be suspended mount by chain or cable.

LWS Series—Powerful, compact LED suspended Wrap High Bay fixtures have narrow or wide distribution for simple installation. They are an excellent choice for industrial and retail applications.

GE

Note: Units with occupancy sensors are on Grainger.com®.

ABR1 Series—IP66 rated fixtures utilizes a seale form factor for demanding industrial environments with high ambient temperatures and wet applications. They can accommodate a single or double fixture with one or two modules per fixture.

ABV3 Series—Fixtures utilize a new form factor and feature a steel and aluminum housing. They can be suspended mount with chain or cable. Suitable for damp locations.

Max. Fixture Wattage	Voltage	Color Index	Light Distribution	Dimmable	Lens	Occupancy Sensor	Fixture Rated Life	Temp. Range	Length	Width	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
LumaPro														
EHS Series														
—	120 to 277	80.0	General	Yes	Frosted	No	50,000 hr.	-4° to 122°F	23 13/16"	17 5/16"	—	—	17400	**452N11**
	120 to 277	80.0	General	Yes	Frosted	No	50,000 hr.	-4° to 122°F	23 13/16"	17 5/16"	—	—	20700	**452N12**
Lithonia Lighting														
IBE Series														
83.0	120/277	80.0	Medium	Yes	Semi-Diffused	No	100,000 hr.	-40° to 55°C	22 1/16"	14 9/32"	11,306	**489D96**	—	—
	120/277	80.0	Medium	Yes	Semi-Diffused	No	100,000 hr.	-40° to 55°C	22 1/16"	14 1/4"	—	—	11,652	**489D97**
107.0	120/277	80.0	Medium	Yes	Semi-Diffused	No	100,000 hr.	-40° to 55°C	22 1/16"	14 1/4"	13,966	**489D98**	14,394	**489D99**
137.0	120/277	80.0	Medium	Yes	Semi-Diffused	No	100,000 hr.	-40° to 55°C	22 1/16"	14 1/4"	17,762	**489F01**	18,306	**489F02**
166.0	120/277	80.0	Medium	Yes	Semi-Diffused	No	100,000 hr.	-40° to 55°C	22 1/16"	14 1/4"	21,067	**489F03**	21,712	**489F04**
IBG Series														
55.0	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	11 3/4"	7594	**53KC76**	7873	**53KC77**
77.0	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	—	—	12,006	**53KC87**
79.0	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	11,580	**53AX76**	12,006	**53AX80**
	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	11,580	**53KC78**	12,006	**53KC80**
	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	—	—	12,006	**53KC81**
97.0	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	14,458	**53KC89**	14,990	**53KC92**
	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	14,458	**53AX77**	14,990	**53KC91**
	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	15 1/2"	14,458	**53KC88**	14,990	**53KC90**
114.0	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53KD01**	17,966	**53KD03**
	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53AX78**	17,966	**53AX81**
	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53KC99**	17,966	**53KD02**
115.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53KD05**	17,966	**53KD08**
	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53KD06**	17,966	**53KD09**
	347 to 480	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	17,329	**53KD04**	17,966	**53KD07**
150.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53KD15**	23,847	**53KD18**
	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53KD16**	23,847	**53KD19**
	347 to 480	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53KD14**	23,847	**53KD17**
154.0	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53KD11**	23,847	**53KD13**
	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53AX79**	23,847	**53AX82**
	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	23,000	**53KD10**	23,847	**53KD12**
188.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	27,344	**53KD27**	28,351	**53KD30**
193.0	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	25 5/8"	20 1/8"	27,344	**53KD21**	28,351	**53KD24**
225.0	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD33**	34,221	**53KD36**
	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD34**	34,221	**53KD37**
	120 to 277	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD32**	34,221	**53KD35**
229.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD39**	34,221	**53KD42**
	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD40**	34,221	**53KD43**
	347 to 480	80.0	Wide	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	33,203	**53KD38**	34,221	**53KD41**
301.0	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	45,973	**53KD45**	47,665	**53KD48**
	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	45,973	**53KD46**	47,665	**53KD49**
302.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	45,973	**53KD51**	47,665	**53KD54**
	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	45,973	**53KD52**	47,665	**53KD55**
378.0	347 to 480	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	55,453	**53KD63**	57,494	**53KD66**
	347 to 480	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	55,453	**53KD64**	57,494	**53KD67**
385.0	120 to 277	80.0	Medium	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	55,453	**53KD57**	57,494	**53KD60**
	120 to 277	80.0	Narrow	Yes	Frosted	No	100,000 hr.	-40° to 131°F	47 3/8"	20 1/8"	55,453	**53KD58**	57,494	**53KD61**
Hubbell Lighting - Outdoor														
197.0	120 to 277	80.0	Type V	Yes	Acrylic	No	200,000 hr.	-20° to 65°C	45 39/64"	17 1/2"	—	—	30,000	**56DZ75**
Hubbell Lighting - Industrial														
HHH Series														
215.0	120 to 277	83.0	Wide	No	—	No	100,000 hr.	-40° to 65°C	32 1/4"	18 7/16"	—	—	27,572	**53VT66**
323.0	120 to 277	83.0	Wide	No	—	No	100,000 hr.	-40° to 65°C	32 1/4"	23 11/16"	—	—	41,167	**53VT67**
431.0	120 to 277	83.0	Wide	No	—	No	100,000 hr.	-40° to 65°C	32 1/4"	29 1/2"	—	—	54,948	**53VT65**

CONTINUED

CONTINUED



No. 53VT22
LWS Series

High Bay LED Fixtures

Max. Fixture Wattage	Voltage	Color Index	Light Distribution	Dimmable	Lens	Occupancy Sensor	Fixture Rated Life	Temp. Range	Length	Width	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Hubbell Lighting - Columbia														
LWS Series														
83.0	120 to 277	83.0	Narrow	Yes	Clear	No	60,000 hr.	-20° to 65°C	24"	15½"	10,788	**53VT18**	—	—
	120 to 277	83.0	Narrow	Yes	Diffused	No	60,000 hr.	-20° to 65°C	24"	15½"	10,788	**53VT20**	—	—
	120 to 277	83.0	Wide	Yes	—	No	60,000 hr.	-20° to 65°C	24"	15½"	10,788	**53VT21**	—	—
	120 to 277	83.0	Wide	Yes	Frosted	No	60,000 hr.	-20° to 65°C	24"	15½"	10,788	**53VT22**	—	—
112.0	120 to 277	83.0	Narrow	Yes	Clear	No	60,000 hr.	-20° to 65°C	24"	15½"	13,750	**53VT23**	—	—
	120 to 277	83.0	Narrow	Yes	Diffused	No	60,000 hr.	-20° to 65°C	24"	15½"	13,750	**53VT25**	—	—
	120 to 277	83.0	Wide	Yes	—	No	60,000 hr.	-20° to 65°C	24"	15½"	13,750	**53VT26**	—	—
	120 to 277	83.0	Wide	Yes	Frosted	No	60,000 hr.	-20° to 65°C	24"	15½"	13,750	**53VT27**	—	—
137.0	120 to 277	83.0	Narrow	Yes	Clear	No	60,000 hr.	-20° to 65°C	24"	15½"	16,321	**53VT28**	—	—
	120 to 277	83.0	Narrow	Yes	Diffused	No	60,000 hr.	-20° to 65°C	24"	15½"	16,321	**53VT30**	—	—
	120 to 277	83.0	Wide	Yes	—	No	60,000 hr.	-20° to 65°C	24"	15½"	16,321	**53VT31**	—	—
	120 to 277	83.0	Wide	Yes	Frosted	No	60,000 hr.	-20° to 65°C	24"	15½"	16,321	**53VT32**	—	—
174.0	120 to 277	83.0	Narrow	Yes	Clear	No	60,000 hr.	-20° to 65°C	24"	15½"	19,234	**53VT33**	—	—
	120 to 277	83.0	Narrow	Yes	Diffused	No	60,000 hr.	-20° to 65°C	24"	15½"	19,234	**53VT34**	—	—
	120 to 277	83.0	Wide	Yes	—	No	60,000 hr.	-20° to 65°C	24"	15½"	19,234	**53VT35**	—	—
	120 to 277	83.0	Wide	Yes	Frosted	No	60,000 hr.	-20° to 65°C	24"	15½"	19,234	**53VT36**	—	—
PHB Series														
78.0	120/277	80.0	Wide	Yes	Frosted	No	200,000 hr.	-20°to 65°C	24"	14½"	12000	**656N81**	12000	**656N82**
123.0	120/277	80.0	Wide	Yes	Frosted	No	200,000 hr.	-20°to 65°C	24"	17½"	18700	**656N84**	18700	**656N85**
158.0	120/277	80.0	Wide	Yes	Frosted	No	200,000 hr.	-20°to 65°C	24"	17½"	24000	**656N87**	—	—
	120/277	80.0	Wide	Yes	Frosted	Yes	200,000 hr.	-20°to 65°C	24"	17½"	—	—	24000	**656N89**
GE Lighting														
ABR1 Series														
64.0	120 to 277	70.0	Narrow	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	8800	**48TL54**	8800	**48TL55**
	120 to 277	70.0	Medium	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	8800	**48TL46**	8800	**48TL47**
	120 to 277	70.0	Wide	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	8800	**48TL38**	8800	**48TL39**
90.0	120 to 277	70.0	Narrow	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	11,800	**48TL56**	11,800	**48TL57**
	120 to 277	70.0	Wide	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	11,800	**48TL40**	11,800	**48TL41**
	120 to 277	70.0	Medium	No	—	No	100,000 hr.	22° to 149°F	16"	19⁹⁄₁₆"	11,800	**48TL48**	11,800	**48TL49**
125.0	120 to 277	70.0	Narrow	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	17,400	**48TL58**	17,400	**48TL59**
	120 to 277	70.0	Wide	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	17,400	**48TL42**	17,400	**48TL43**
	120 to 277	70.0	Medium	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	17,400	**48TL50**	17,400	**48TL51**
178.0	120 to 277	70.0	Narrow	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	23,000	**48TL60**	23,000	**48TL61**
	120 to 277	70.0	Wide	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	23,000	**48TL44**	23,000	**48TL45**
	120 to 277	70.0	Medium	No	—	No	100,000 hr.	22° to 149°F	32½"	19⁹⁄₁₆"	23,000	**48TL52**	23,000	**48TL53**
ABV3 Series														
50.0	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	22° to 131°F	13¾"	10⅞"	9000	**48TL12**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	-22° to 131°F	13¾"	10⅞"	—	—	9000	**49JK78**
	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	22° to 131°F	13¾"	10⅞"	9000	**49JL02**	9000	**49JL03**
68.0	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	22° to 131°F	13¾"	10⅞"	11,900	**48TL13**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	22° to 131°F	13¾"	10⅞"	11,900	**49JL04**	11,900	**49JL05**
109.0	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	22° to 131°F	13¾"	10⅞"	17,600	**49JL07**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	22° to 131°F	13¾"	10⅞"	17,600	**48TL27**	—	—
137.0	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	22° to 131°F	13¾"	15⅜"	23,400	**49JL12**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	22° to 131°F	13¾"	15⅜"	23,400	**48TL30**	—	—
221.0	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	-22° to 131°F	27⁹⁄₁₆"	10⅞"	35,500	**54GD86**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	-22° to 131°F	27⁹⁄₁₆"	10⅞"	35,500	**54GD93**	—	—
284.0	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	-22° to 131°F	40⅛"	10⅞"	47,400	**54GD89**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	-22° to 131°F	40⅛"	10⅞"	47,400	**54GD97**	—	—
360.0	120 to 277	70.0	Wide	Yes	Diffused	Yes	100,000 hr.	-22° to 131°F	27⁹⁄₁₆"	15⅜"	58,500	**54GD92**	—	—
	120 to 277	70.0	Wide	Yes	Diffused	No	100,000 hr.	-22° to 131°F	27⁹⁄₁₆"	15⅜"	58,500	**54GD84**	—	—



No. 53CT59



No. 22CK50

No. of Light Bars	Max. Fixture Wattage	Fixture Voltage	Color Index	Light Distribution	Fixture Rated Life	Fixture Length	Fixture Width	Std.	3000K Lumens	3000K Item No.	4100K Lumens	4100K Item No.	
GE Lighting													
LDS Series													
1	31.0	120 to 277	90.0	Wide	60,000 hr.	50"	7"	UL	3400	**53CT73**	—	—	
	38.0	120 to 277	90.0	Wide	60,000 hr.	50"	7"	UL	4000	**53CT75**	4000	**53CT76**	
	62.0	120 to 277	90.0	Wide	60,000 hr.	98"	7"	UL	6800	**53CT69**	6800	**53CT70**	
	73.0	120 to 277	90.0	Wide	60,000 hr.	98"	7"	UL	8000	**53CT71**	8000	**53CT72**	
LIS Series													
1	30.0	120 to 277	90.0	Medium	90,000 hr.	49"	10"	UL	4200	**53CT59**	4000	**53CT60**	
	37.0	120 to 277	90.0	Medium	90,000 hr.	49"	10"	UL	5200	**53CT61**	5000	**53CT62**	
	60.0	120 to 277	90.0	Medium	90,000 hr.	97"	10"	UL	8400	**53CT55**	8000	**53CT56**	
	75.0	120 to 277	90.0	Medium	90,000 hr.	97"	10"	UL	10,400	**53CT57**	9900	**53CT58**	
Lithonia Lighting													
DPSL Series													
1	40.0	120	80.0	General	50,000 hr.	46½"	5½"	CSA Listed	—	—	4000	**489M87**	*
MSL Series													
2	29.0	120 to 277	80.0	Wide	60,000 hr.	48"	10"	UL	—	—	4036	**22CK50**	*

** 4000K color temp.*

Low-Bay LED Fixtures

- 5-yr. limited warranty

Durable steel fixtures start reliably down to 0°F and come with "S" hook hangers that allow adjustable mounting angles. Lithonia IBH Series feature a 20-ga. steel full-body housing and optical assembly and a thermally protected dimming driver. No. 22CK50 includes power cord.



LumaPro® Series



IBZ Series



TMS5HB Series

High Bay Fluorescent Fixtures

- Up to 50% energy savings over metal halide
- Instant-on lamps
- Steel construction
- Ambient temp. range: 0° to 104°F.

Narrow-distribution fixtures are designed for aisle or higher mounting heights; wide-distribution fixtures are designed for general or open areas.



Series FGB

LUMAPRO®

Post-painting process provides excellent corrosion resistance at a value price.

LITHONIA LIGHTING IB/IBC/IBZ SERIES

Designed as 1-for-1 replacements of common metal halide high-bay systems, these fixtures mount at heights from 15 to 30 ft. (No. 48H448 mounts up to 40 ft.). Suitable for most warehousing, commercial, and retail applications. Models with Modular Receptacle simplify field installation of various modular accessories, including cordsets and motion sensors. Modular Plug versions must be powered using one of the Modular Cord Sets (6CGD0, 6CGD1, and 6CGD2), sold separately. Field-installed sensors can be used with T5 versions to tightly control light distribution and effectively manage lamp heat to increase overall efficiency. Help provide superior optics in narrow distribution for aisles, or wide distribution for general lighting.

LITHONIA LIGHTING MS5HB/TMS5HB SERIES

Excellent where high-angle brightness or appearance is significant, such as aisles, assembly lines, or retail environments. White straight-blade louver assembly shields lamps and reduces brightness.

LITHONIA LIGHTING FGB SERIES

- Wide variety of precision optics available
- Motion sensors help provide increased energy savings
- NEMA Premium ballasts standard

SPEC-BEAM™ high-lumen fixtures can be used as a direct replacement for common metal halide high bay systems in warehousing, manufacturing, commercial facility, and retail applications. Mount at 15 to 40 ft. Channel, end caps and socket brackets are manufactured from code-grade steel; fixture assembly is riveted and screwed together for added strength and offers toolless access to ballast and wiring. Segmented optics are 95% reflective and warranted for 25 yr. All distributions included.

No. of Light Bars	Lamp Type	Lamp Incl.	Suggested Lamp Item No.	Max. Fixture Wattage	Fixture Voltage	Description/ Special Features	Fixture Length	Fixture Width	LIGHT DISTRIBUTION NARROW Item No.	LIGHT DISTRIBUTION WIDE Item No.
LumaPro										
4	F54T5HO	No	4XMJ7	216.0	120 to 277	Heat Slots, Motion Sensor	48"	12½"	**2NAX8**	**2NAZ1**
6	F32T8	No	3VK11	192.0	120 to 277	Heat Slots, Motion Sensor	48"	17½"	—	**2NAZ9**
Lithonia Lighting										
FGB Series										
4	T5HO	No	5AE35	204.0	347 to 480	Heat Slots	48"	16"	**2YGH5**	**2YGH4**
	T5HO	No	5AE35	204.0	347 to 480	Heat Slots	48"	16"	**5XY55**	**5XY59**
	T5HO	No	5AE35	204.0	347 to 480	360° Motion Sensor, Uplight	48"	16"	—	**2LYY1**
6	T5HO	No	5AE35	306.0	347 to 480	Heat Slots	48"	24"	**2YGK4**	**2YGK1**
	T5HO	No	5AE35	306.0	347 to 480	Heat Slots	48"	24"	**5XY66**	—
	T5HO	No	5AE35	306.0	347 to 480	360° Motion Sensor, Uplight	48"	24"	—	**2LYY3**
	T5HO	No	2ETU3	306.0	347 to 480	Heat Slots	48"	24"	—	**5XY76**
	T8	No	4PL16	198.0	120 to 277	360° Motion Sensor, Uplight	48"	24"	**1THL2**	**1THL1**
	T8	No	4PL16	193.0	120 to 277	Heat Slots	48"	24"	**1VNU9**	**5XY87**
	T8	No	4PL16	198.0	120 to 277	Heat Slots	48"	24"	**2YGK6**	**2YGK5**
	T8	No	4PL16	193.0	120 to 277	Heat Slots	48"	24"	**5XY82**	—
	T8	No	2ETU3	193.0	120 to 277	Heat Slots	48"	24"	—	**4ULA3**
8	T5HO	No	2EAF8	408.0	347 to 480	Heat Slots	48"	24"	**4ULA2**	—
IBC Series										
4	T5	No	5AE35	234.0	120 to 277	Heat Slots	48 1/16"	18⅛"	**48H449**	—
IB Series										
6	T8	No	3VK30	224.0	120 to 277	Heat Slots	48 1/16"	13¼"	**48H448**	—
IBZ Series										
4	T5	Yes	5AE35	216.0	120 to 277	Heat Slots	48 1/16"	13¼"	**32JA05**	—
	T5	No	5AE35	216.0	120 to 277	Cold Storage with Heat Slots	48⅛"	13¼"	**32JA08**	—
	T5	Yes	5AE35	234.0	120 to 277	Cold Storage with Heat Slots	48⅛"	13¼"	—	**40L080**
	T5HO	No	5AE35	240.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	13¼"	**6CGC1**	**6CGC6**
	T5HO	No	5AE35	240.0	120 to 277	Heat Slots, Cord Set/No Plug	48 1/16"	13¼"	**4UKZ4**	—
	T5HO	No	5AE35	240.0	120 to 277	Heat Slots	48 1/16"	13¼"	**6AA14**	**6AA17**
	T8	No	3VK30	146.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	18⅛"	**6CGC4**	—
	T8	Yes	3vk30	144.0	120 to 277	Cold Storage with Heat Slots	48⅛"	13¼"	**40L055**	**40L056**
	T8	No	2ETU3	146.0	120 to 277	Uplight	48 1/16"	13¼"	**1THL5**	—
	T8	No	2ETU3	146.0	120 to 277	Heat Slots	48 1/16"	13¼"	—	**4UKZ3**
	T8	No	3VK30	146.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	13¼"	—	**6CGC9**
6	T5	Yes	5AE35	324.0	120 to 277	Heat Slots	48 1/16"	18⅛"	**32JA06**	—
	T5HO	No	5AE35	306.0	120 to 277	Cord and Plug	48 1/16"	18⅛"	**1THN3**	—
	T5HO	No	5AE35	360.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	18⅛"	**6CGC2**	**6CGC7**
	T5HO	No	5AE35	360.0	347 to 480	Uplight	48 1/16"	18⅛"	**1THL7**	—
	T5HO	No	5AE35	360.0	120 to 277	Heat Slots	48 1/16"	18⅛"	**6AA15**	**6AA18**
	T8	No	2ETU3	220.0	120 to 277	Heat Slots, Cord Set/No Plug	48 1/16"	18⅛"	**4UKZ6**	—
	T8	No	2ETU3	220.0	120 to 277	Heat Slots	48 1/16"	18⅛"	**6AA16**	**6AA19**
	T8	No	3VK30	193.0	120 to 277	Cold Storage with Heat Slots	48⅛"	18⅛"	**32JA07**	—
	T8	Yes	3VK30	193.0	120 to 277	Heat Slots	48 1/16"	18⅛"	**32JA04**	—
	T8	No	3VK30	220.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	18⅛"	**6CGC3**	—
	T8	No	3VK30	220.0	120 to 277	Heat Slots, Modualr Receptacle	48 1/16"	18⅛"	—	**6CGC8**
	T8	Yes	3vk30	234.0	120 to 277	Cold Storage with Heat Slots	48⅛"	18⅛"	**40L057**	**40L058**
	T8	Yes	3vk30	234.0	120 to 277	Cold Storage with Heat Slots	48⅛"	18⅛"	—	**40L059**
	T8	No	2ETU3	220.0	120 to 277	Motion Sensor, Cord and Plug	48 1/16"	18⅛"	**1THL9**	**1THN2**
8	T5HO	No	5AE35	480.0	120 to 277	Heat Slots, Modular Receptacle	48 1/16"	23⅜"	**6CGC5**	—
MS5HB Series										
3	T5	No	5AE35	164.0	120 to 277	Cold Storage with Heat Slots	46 1/16"	9¾"	**33L660**	—
	T5HO	No	5AE35	182.0	120 to 277	Heat Slots, Motion Sensor	46 1/16"	9¾"	**4UKY8**	—
	T5HO	No	5AE35	182.0	120 to 277	Louvers Included	46 1/16"	9¾"	**1BP81**	**1BP82**
TMS5HB Series										
3	T5	No	5AE35	330.0	120 to 277	Cold Storage with Heat Slots	92⅛"	9¾"	**33L662**	—
6	T5HO	No	5AE35	360.0	120 to 277	Tandem Double Length Unit	92⅛"	9¾"	**1BP79**	**1BP80**

Hazardous Location Fixtures

KILLARK®

- ¾" conduit hub

Use in hazardous or nonhazardous wet locations, for indoor or outdoor general and task lighting where flammable gases/vapors or combustible dusts may be present. Complete fixtures include housing, globe, mount, and guard. Gray housing color for NV Series, all others are tan. Stanchion-mount models with 1¼" hubs are available; call 1-800-GRAINGER (472-4643).

Standards	
A	Class I, Div 2 Groups A, B, C, D, Class I, Zone 2, Groups IIC, IIB, IIA, Class II, Div 2, Groups F, G, Class III, UL Marine Rated for US, NEMA 3, 4, 4X, IP66
B	Class I, Div 2 Groups A, B, C, D, Class I, Zone 2, Groups IIC, IIB, IIA, Class II Div 1 and 2, Groups E, F, G, Class III, NEMA 3, 4, 4X
C	Class I, Div 1 and 2 Groups C,D, Class I, Zone 1 and 2, Groups IIB, IIA, Class I, Zone I, AEx d IIB, Class II, Div 1 and 2, Groups E,F,G, Class III, Div 1 and 2, Suitable for Wet Locations, UL Marine Rated for US, NEMA 3, 4, 4X
D	Class I, Div 1 and 2 Groups C,D, Class I, Zone 1 and 2, Groups IIB, IIA, Class II, Div 1 and 2, Groups E,F,G, Class III, Div 1 and 2, Suitable for Wet Locations, UL Marine Rated for US, NEMA 3, 4, 4X



Compact Fluorescent, Wall



Metal Halide, Ceiling



LED, Wall



LED, Pendant

Fixture Wattage	Voltage	Lamp Incl.	Suggested Lamp Item No.	Standards Key	PENDANT Mfr. Model	PENDANT Item No.	CEILING Mfr. Model	CEILING Item No.	WALL Mfr. Model	WALL Item No.
Incandescent Light Fixtures										
150	120 to 277VAC	No	2PLK4	A	NV2IG15ASG	**7A0X1**	NV2IG15XSG	**7A142**	NV2IG15BSG	**7AA07**
300	250VAC	No	2PLK5	D	EMI20A2G	**7A0W8**	—	—	EMI20B2G	**7AA04**
Compact Fluorescent Light Fixtures										
18	120 to 277VAC	No	1PGZ3	A	NV2FG18ASG	**7A0X2**	NV2FG18XSG	**7A144**	NV2FG18BSG	**7AA08**
26	120 to 277VAC	No	1PGZ8	A	NV2FG26ASG	**7A0X3**	NV2FG26XSG	**7A145**	NV2FG26BSG	**7AA09**
32	120 to 277VAC	No	1PHA3	A	NV2FG32ASG	**7A0X4**	NV2FG32XSG	**7A146**	NV2FG32BSG	**7AA10**
42	120 to 277VAC	No	1PHA7	A	NV2FG42ASG	**7A0X5**	NV2FG42XSG	**7A147**	NV2FG42BSG	**7AA11**
64	120 to 277VAC	Yes	1PHA3	B	VQ1F6430A2GLG	**7J620**	VQ1F6430X2GLG	**7J624**	VQ1F6430B2GLG	**7J622**
64	120 to 277VAC	Yes	1PHA3	D	EQF6430A2G	**7A0X0**	EQF6430X2G	**7A0Z9**	EQF6430B2G	**7AA06**
84	120 to 277VAC	Yes	1PHA7	B	VQ1F8430A2GLG	**7J621**	VQ1F8430X2GLG	**7J625**	VQ1F8430B2GLG	**7J623**
LED Light Fixtures										
45	120 to 277VAC	Yes	—	B	VM1L4530A2GLG	**7J129**	VM1L4530X2GLG	**7J130**	EML4530B2G	**7J128**
45	120 to 277VAC	Yes	—	D	EML4530A2G	**7J126**	EML4530X2G	**7J127**	VM1L4530B2GLG	**7J131**
High Pressure Sodium Light Fixtures										
70	120/208/240/277VAC	No	2V632	B	VM1S070A2GLG	**7A0X8**	VM1S070X2GLG	**7A174**	VM1S070B2GLG	**7AA14**
100	120/208/240/277VAC	No	4V604	B	VM1S100A2GLG	**7A0X9**	VM1S100X2GLG	**7A175**	VM1S100B2GLG	**7AA15**
150	120/208/240/277VAC	No	2VAD7	B	VM3S150A2GLG	**7A0Y1**	VM3S150X2GLG	**7A189**	VM3S150B2GLG	**7AA17**
150	120/208/240/277VAC	No	2VAD7	C	EZS150A2G	**7A0W4**	EZS150X2G	**7A0Z3**	EZS150B2G	**7AA00**
150	120VAC	No	2V713	D	EMS151A2G	**7A0W9**	EMS151X2G	**7A0Z8**	EMS151B2G	**7AA05**
250	120/208/240/277VAC	No	2V520	C	EZS250A2G	**7A0W5**	EZS250X2G	**7A0Z4**	EZS250B2G	**7AA01**
400	120/208/240/277VAC	No	2V453	C	EZS400A2G	**7A0W6**	EZS400X2G	**7A0Z5**	EZS400B2G	**7AA02**
Metal Halide Light Fixtures										
100	120/208/240/277VAC	No	1E674	D	EMH100A2G	**7A0W7**	EMH100X2G	**7A0Z6**	EMH100B2G	**7AA03**
150	120/208/240/277VAC	No	2F192	C	EZP150A2G	**7A0V9**	EZP150X2G	**7A0Y8**	EZP150B2G	**7A201**
175	120/208/240/277VAC	No	1E686	B	VM3P170A2GLG	**7A0Y0**	VM3P170X2GLG	**7A188**	VM3P170B2GLG	**7AA16**
175	120/208/240/277VAC	No	1E686	C	EZP170A2G	**7A0W0**	EZP170X2G	**7A0Y9**	EZP170B2G	**7A397**
250	120/208/240/277VAC	No	4PL07	B	VM5P250A2GLG	**7A0Y4**	VM5P250X2GLG	**7A192**	VM5P250B2GLG	**7AA20**
250	120/208/240/277VAC	No	4PL07	C	EZP250A2G	**7A0W1**	EZP250X2G	**7A0Z0**	EZP250B2G	**7A542**
320	120/208/240/277VAC	No	4WW54	C	EZP320A2G	**7A0W2**	EZP320X2G	**7A0Z1**	EZP320B2G	**7A543**
400	120/208/240/277VAC	No	3JJ96	B	VM5P400A2GLG	**7A0Y5**	VM5P400X2GLG	**7A193**	VM5P400B2GLG	**7AA21**
400	120/208/240/277VAC	No	3JJ96	C	EZP400A2G	**7A0W3**	EZP400X2G	**7A0Z2**	EZP400B2G	**7A950**

Description	For Use With Series	Mfr. Model	Item No.
Accessories			
Hazardous Location ¾" Flexible Coupling	—	EKJ-28	**2PDJ7**
Hazardous Location Adapter	VM	VMEZA	**2PDF9**
Hazardous Location Extension	NV2, Wall Mount Units With Reflector	NVEXTG	**2PDK4**
Hazardous Location Glass Globe	VM4	VMG25	**2PDE5**
Hazardous Location Glass Globe, Tempered	NV2	VCGP-100	**2PDH2**
Hazardous Location Glass, Refractor Type I	VM1, VM3	VMR171	**2PDF4**
Hazardous Location Glass, Refractor Type I	VM4, VM5Q	VMR251	**2PDF6**
Hazardous Location Glass, Reflector Type V	VM1, VM3	VMR175	**2PDF5**
Hazardous Location Glass, Reflector Type V	VM2, VM5Q	VMR255	**2PDF7**

Description	For Use With Series	Mfr. Model	Item No.
Hazardous Location Outlet Box	VM	GECXAT-2	**2PDK1**
Hazardous Location Photocell, 120V	VM, NV2	VMFSPC1	**2PDJ2**
Hazardous Location Photocell, 120V	EMx, EZx	VMHKPC1	**2PDJ4**
Hazardous Location Photocell, 208-277V	VM, NV2	VMFSPC2	**2PDJ3**
Hazardous Location Photocell, 208-277V	EMx, EZx	VMHKPC2	**2PDJ5**
Hazardous Location Photo Control, 120V	VM	HUB2PC120	**2PDH9**
Hazardous Location Photo Control, 208-277V	VM	HUB2PC227	**2PDJ1**
Hazardous Location Reflector Dome	EMI20	ERSD15	**2PDJ9**
Hazardous Location Reflector Dome	NV2	NVPSD12	**2PDH3**
Hazardous Location Reflector Dome	VM, EZ	VMPSD40	**2PDK3**
Hazardous Location Reflector, 30°	VM, EZ	VMPA40	**2PDF8**
Hazardous Location Reflector Dome	EMS, EMH, EQF	ERSD30	**2PDD5**

Hazardous Location Signal Flashers

KILLARK®

- Temp. range: -40° to 104°F
- Hazardous location rated Class 1, Div. 2, Groups A, B, C, D; Class 1, Zone 2, Groups IIC, IIB, IIA; Class II, Div. 1 & 2, Groups F, G; Class III
- Enclosure Type 4X, Marine Type
- CSA Certified for U.S. and Canada

High-strength, glass-filled thermoset polyester with polycarbonate lenses. Units can be mounted up or down. Flashers are 4.75" dia. and include brass screws and silicone gasket. 12-80VDC units can operate at 24VAC.

LED

- Lamp life: 50,000 hr.

7 microflashes per sec.

XENON

- Lamp life: 10,000 hr.

60 to 80 flashes per min.



Red LED, Ceiling No. 7AP47

Fixture Wattage	Mounting	Voltage	L (in.)	W (in.)	H (in.)	AMBER Mfr. Model	AMBER Item No.	RED Mfr. Model	RED Item No.	GREEN Mfr. Model	GREEN Item No.
LED											
1	Ceiling	12-80VDC	4.22	4.22	6.34	NVSLCFG26AXG	**7AP49**	NVSLCFG26RXG	**7AP50**	NVSLCFG26GXG	**7AP51**
	Ceiling	120-240VAC	4.22	4.22	6.34	NVSLCFG25AXG	**7AP46**	NVSLCFG25RXG	**7AP47**	NVSLCFG25GXG	**7AP48**
	Pendant	12-80VDC	4.22	4.22	6.55	NVSLCFG26AAG	**7AP35**	NVSLCFG26RAG	**7AP36**	NVSLCFG26GAG	**7AP37**
	Pendant	120-240VAC	4.22	4.22	6.55	NVSLCFG25AAG	**7AP32**	NVSLCFG25RAG	**7AP33**	NVSLCFG25GAG	**7AP34**
	Wall	12-80VDC	4.22	7.26	7.96	NVSLCFG26ABG	**7AP63**	NVSLCFG26RBG	**7AP64**	NVSLCFG26GBG	**7AP65**
	Wall	120-240VAC	4.22	7.26	7.96	NVSLCFG25ABG	**7AP60**	NVSLCFG25RBG	**7AP61**	NVSLCFG25GBG	**7AP62**
Xenon											
2.7	Ceiling	12-80VDC	4.22	4.22	11.19	NVSZMFG26AXG	**7AP55**	NVSZMFG26RXG	**7AP56**	NVSZMFG26GXG	**7AP57**
	Ceiling	120VAC	4.22	4.22	11.19	NVSZMFG01AXG	**7AP52**	NVSZMFG01RXG	**7AP53**	NVSZMFG01GXG	**7AP54**
	Pendant	12-80VDC	4.22	4.22	11.55	NVSZMFG26AAG	**7AP41**	NVSZMFG26RAG	**7AP42**	NVSZMFG26GAG	**7AP43**
	Pendant	120VAC	4.22	4.22	11.55	NVSZMFG01AAG	**7AP38**	NVSZMFG01RAG	**7AP39**	NVSZMFG01GAG	**7AP40**
	Wall	12-80VDC	4.22	7.26	12.6	NVSZMFG26ABG	**7AP69**	NVSZMFG26RBG	**7AP70**	NVSZMFG26GBG	**7AP71**
	Wall	120VAC	4.22	7.26	12.6	NVSZMFG01ABG	**7AP66**	NVSZMFG01RBG	**7AP67**	NVSZMFG01GBG	**7AP68**


No. 54EN85


No. 54EN86

HUBBELL®

LED Vapor Tight Fixtures

Wall or Ceiling/Pendant-mounted LED fixtures are designed for use in traditional vapor-tight locations that have limited space. Perfect for entries, corridors, tunnels, service areas, stairwells, or even retro-accent applications.

Fixture Wattage	Voltage	Lumens	CRI	Color Temp.	Rated Life	Housing Material	CEILING Item No.	SURFACE Item No.
11	120 to 277	757	80	4100K	60,000 hr.	Aluminum	54EN85	54EN86


No. 3RB17


No. 1UKB8


No. 3RB18


No. 3RB24

LumaPro®

HUBBELL® Wiring Device-Kellems

Vapor Tight Vandal Resistant Fixtures

- 120V
- Gray finish

Housing has twist on guard, fully enclosed, gasketed glass globe, and a premium porcelain socket. Made to withstand extreme physical assault and environmental abuse. Great for high traffic, dirty, dusty, or weather-exposed areas. Fit on ¾" conduit, or ½" conduit. No. 1UKB8 is specifically designed for use in marine applications and meets applicable standards. Nos. 3RB17 and 3RB18 are prewired with leads for flush mounting (4" round or octagonal boxes). All fixtures are UL Listed; Nos. 3RB17 and 3RB18 are CSA Certified for the U.S. and Canada.

Note: Not recommended for use in commercial or industrial range hoods or ovens.

Lamp Type	Lamp Watts	Housing Material	Lamp Incl.	CEILING Item No.	WALL Item No.	PENDANT Item No.	REPLACEMENT GAURD Item No.
LumaPro							
Incandescent	200	Cast Aluminum	No	3RB17	3RB18	3RB24	46M168
	300	Cast Aluminum	No	—	—	21R876	—
Metal Halide	100	Cast Aluminum	Yes	21R878	21R880	21R879	—
Hubbell Wiring Device-Kellems							
Incandescent	150	—	No	1UKB8	—	—	—


No. 35LF86

No. 3GE20

LITHONIA LIGHTING®

Rough Service Vandal Resistant Fixtures

- Wall or ceiling mounting

Engineered to withstand extreme physical assault and environmental abuse; ideal for high risk applications. All lenses use tamper resistant Torx® fasteners. (Use with bit No. 3JA15, not included.) UL Listed for wet locations.

UTILITARIAN

1-pc. injection-molded polycarbonate lens is UV-stabilized. Housing has durable, corrosion-resistant finish.

Lamp Qty.	Lamp Type	Suggested Lamp Item No.	Lamp Incl.	Fixture Wattage	Voltage	Housing Finish	Description/ Special Features	Ambient Temp. Range	L	W	H	Series	Item No.
High Abuse Canopy Light													
1	Incandescent	2PLK1	No	100 W	120V AC	White	White Opal Polycarbonate Lens	—	8½"	5 ⅞ in	4 ½ in	VR1	**3GB98** *
	Incandescent	2PLK1	No	100 W	120V AC	White	Clear Prismatic Polycarbonate Lens	—	8½"	5 ⅞ in	4 ½ in	VR2	**3GB99** *
	Incandescent	2PLK1	No	100 W	120V AC	White	Clear Prismatic Polycarbonate Lens	—	8½"	8 ½ in	4 ¾ in	VR3	**3GE14** *
2	F26TBX	1PHA1	No	52 W	120-277V AC	White	Clear Prismatic Polycarbonate Lens	0° to 77°F	12"	12 in	5 ½ in	VR4	**3GE20** *
	Incandescent	2PLK3	No	75 W	120V AC	White	Clear Prismatic Polycarbonate Lens	—	11¾"	11 ¾ in	5 ½ in	VR4	**3GE19** *
Rough Service Low Profile Canopy													
3	Fluorescent	6XT97	No	28 W	120-277V AC	Powder Coated White	Impact Resistant Diffuser	0° to 104°F	24"	24 in	3 ¾ in	VRS	**35LF87**
Rough Service Linear Garage Light													
2	Fluorescent	4PL16	No	58 W	120-277V AC	Powder Coated White	Impact Resistant Diffuser	0° to 104°F	48"	24 in	3 ¾ in	VRS	**35LF88**
3	Fluorescent	4PL16	No	86 W	120-277V AC	Powder Coated White	Impact Resistant Diffuser	0° to 104°F	48"	24 in	3 ¾ in	VRS	**35LF86**
Extension Boxes													
For Use With Fluorescent VR1 or VR2 Series Fixtures									8¾"	6⅛"	1¼"	—	**1NC57**

** Moistureproof*

Hazardous Location Fixtures

- Lamps included

Designed for indoor and outdoor general and task lighting of Class 1 Division 2 Groups A, B, C, and D hazardous and nonhazardous wet locations. Use where flammable gases and vapors or combustible dusts may be present. UL and C-UL Listed.

Lamp Watts	Fixture Wattage	Voltage	Lamp Qty.	Lamp Designation	Lens Material	Description	L	W	H	FIXTURES Item No.	FIXTURES WITH EMERGENCY BACKUP Item No.
Fluorescent											
Pendant											
17	34	120/277VAC	2	T8, 2FT	Acrylic	—	25⅞"	7 13⁄64"	5 27⁄64"	**20LM85**	**20LM93**
24	48	120/277VAC	2	T5HO	Acrylic	Wide Area	25⅞"	7 13⁄64"	5 27⁄64"	**20LM81**	—
	48	120/277VAC	2	T5HO	Acrylic	Vibration Resistant	27 15⁄16"	7 1⁄32"	7 39⁄64"	**20LM49**	—
	72	120/277VAC	3	T5HO	Acrylic	Wide Area	25⅞"	7 13⁄64"	5 27⁄64"	**20LM83**	—
32	64	120/277VAC	2	T8, 4FT	Acrylic	—	49 47⁄64"	7 13⁄64"	5 27⁄64"	**20LM65**	**20LM73**
	64	120/277VAC	2	T8	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	7 39⁄64"	**20LM41**	**20LM45**
54	108	120/277VAC	2	—	Acrylic	Non-Corrosive	49 47⁄64"	7 13⁄64"	5 27⁄64"	**20LM61**	—
	108	120/277VAC	2	T5HO	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	7 39⁄64"	**20LM39**	—
	108	120/277VAC	2	T5HO	Acrylic	Adjustable Angle	54 21⁄32"	9 49⁄64"	6 27⁄64"	**20LN08**	—
	162	120/277VAC	3	T5HO	Acrylic	Non-Corrosive	49 47⁄64"	7 13⁄64"	5 27⁄64"	**20LM63**	—
Pendant/Surface											
32	128	120/277VAC	4	T8	Tempered Glass	Wide Area	55⅜"	15 23⁄32"	11 13⁄16"	**20LN22**	—
Surface											
17	34	120/277VAC	2	T8, 2FT	Acrylic	—	25⅞"	7 31⁄32"	5 13⁄64"	**20LM84**	**20LM92**
24	48	120/277VAC	2	T5HO	Acrylic	Wide Area	25⅞"	7 31⁄32"	5 13⁄64"	**20LM80**	—
	48	120/277VAC	2	T5HO	Acrylic	Vibration Resistant	27 15⁄16"	7 1⁄32"	9⁄64"	**20LM48**	—
	72	120/277VAC	3	T5HO	Acrylic	Wide Area	25⅞"	7 31⁄32"	5 13⁄64"	**20LM82**	—
32	64	120/277VAC	2	T8, 4FT	Acrylic	—	49 31⁄32"	7 31⁄32"	5 3⁄32"	**20LM64**	**20LM72**
	64	120/277VAC	2	T8	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	9⁄64"	**20LM40**	**20LM44**
54	108	120/277VAC	2	T5HO	Acrylic	Non-Corrosive	49 31⁄32"	7 31⁄32"	5 3⁄32"	**20LM60**	—
	108	120/277VAC	2	T5HO	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	9⁄64"	**20LM38**	—
	108	120/277VAC	2	T5HO	Acrylic	Non-Corrosive	55½"	9 49⁄64"	6 43⁄64"	**20LN07**	—
	162	120/277VAC	3	T5HO	Acrylic	Non-Corrosive	49 31⁄32"	7 31⁄32"	5 3⁄32"	**20LM62**	—
	216	120/277VAC	4	T5HO	Tempered Glass	Wide Area	55⅜"	15 23⁄32"	11 13⁄16"	**20LN20**	—
LED											
Adjustable U-Bracket											
7	7W	12 to 24VAC	0	—	Acrylic	—	4 7⁄32"	4 1⁄16"	4 55⁄64"	**20LN53**	—
31	31W	12 to 24VAC	0	—	Acrylic	—	7 13⁄64"	3 43⁄64"	7 25⁄32"	**20LN52**	—
60	60W	100 to 240VAC	0	—	Acrylic	Adjustable Angle	7 33⁄64"	6 7⁄64"	9 19⁄64"	**20LN51**	—
150	150	120/277VAC		—	Tempered Glass	Multiple Power Supplies	16 1⁄16"	13 27⁄32"	7 21⁄32"	**20LN24**	—
	150	120/277VAC	0	—	Tempered Glass	Multiple Power Supplies	17 1⁄4"	7 1⁄32"	15 11⁄64"	**20LN55**	—
	150W	100 to 277 VAC or 11 to 25VAC/DC	0	—	Tempered Glass	Wide Area	14½"	10⅞"	13 3⁄64"	**20LN57**	—
Flat Surface Swivel Bracket											
14	28	120/277VAC	2	T8-LED, 2FT	Acrylic	Adjustable Angle	26 9⁄32"	7 5⁄64"	8 21⁄32"	**20LN01**	**20LN03**
	42	120/277VAC	3	T8-LED, 2FT	Acrylic	Adjustable Angle	26 9⁄32"	7 5⁄64"	8 21⁄32"	**20LN02**	**20LN04**
28	56	120/277VAC	2	T8-LED, 4FT	Acrylic	Adjustable Angle	51 3⁄32"	7 5⁄64"	8 21⁄32"	**20LM96**	**20LM98**
	84	120/277VAC	3	T8-LED, 4FT	Acrylic	Adjustable Angle	51 3⁄32"	7 5⁄64"	8 21⁄32"	**20LM97**	**20LM99**
Pendant											
14	28	120/277VAC	2	T8-LED, 2FT	Acrylic	—	25⅞"	7 13⁄64"	5 27⁄64"	**20LM77**	**20LM89**
	28	120/277VAC	2	T8-LED, 2FT	Acrylic	Vibration Resistant	27 15⁄16"	7 1⁄32"	7 39⁄64"	**20LM47**	**20LM53**
	28	120/277VAC	2	T8-LED, 2FT	Acrylic	—	28 5⁄32"	9 49⁄64"	6 27⁄64"	**20LN12**	—
	42	120/277VAC	3	T8-LED, 2FT	Acrylic	—	25⅞"	7 13⁄64"	5 27⁄64"	**20LM79**	**20LM91**
28	56	120/277VAC	2	T8-LED, 4FT	Acrylic	—	49 47⁄64"	7 13⁄64"	5 27⁄64"	**20LM57**	**20LM69**
	56	120/277VAC	2	T8-LED, 4FT	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	7 39⁄64"	**20LM37**	**20LM43**
	56	120/277VAC	2	T8-LED, 4FT	Acrylic	—	54 21⁄32"	9 49⁄64"	6 27⁄64"	**20LN06**	—
	84	120/277VAC	3	T8-LED, 4FT	Acrylic	—	49 47⁄64"	7 13⁄64"	5 27⁄64"	**20LM59**	**20LM71**
Pendant/Surface											
28	112	120/277VAC	4	T8-LED, 4FT	Tempered Glass	Wide Area	55⅜"	15 23⁄32"	11 13⁄16"	**20LN18**	—
240	240	120/277VAC	0	—	Polycarbonate	High Output	14"	14"	14 25⁄32"	**20LN25**	—
Surface/Suspended											
8	8	24VDC	0	—	Acrylic	—	13 29⁄32"	2 11⁄16"	1 53⁄64"	**20LN48**	—
	8	120/240VAC	0	—	Acrylic	—	21⅛"	2 11⁄16"	1 53⁄64"	**20LN50**	—
14	28	120/277VAC	2	T8-LED, 2FT	Acrylic	—	25⅞"	7 31⁄32"	5 13⁄64"	**20LM76**	**20LM88**
	28	120/277VAC	2	T8-LED, 2FT	Acrylic	Vibration Resistant	27 15⁄16"	7 1⁄32"	9⁄64"	**20LM46**	**20LM52**
	28	120/277VAC	2	T8-LED, 2FT	Acrylic	—	29"	9 49⁄64"	6 59⁄64"	**20LN11**	—
	42	120/277VAC	3	T8-LED, 2FT	Acrylic	—	25⅞"	7 31⁄32"	5 13⁄64"	**20LM78**	**20LM90**
16	16	24VDC	0	—	Acrylic	—	24 45⁄64"	2 11⁄16"	1 53⁄64"	**20LN42**	—
	16	120/240VAC	0	—	Acrylic	—	32 23⁄64"	2 11⁄16"	1 53⁄64"	**20LN44**	—
28	56	120/277VAC	2	T8-LED, 4FT	Acrylic	—	49 31⁄32"	7 31⁄32"	5 3⁄32"	**20LM56**	**20LM68**
	56	120/277VAC	2	T8-LED, 4FT	Acrylic	Vibration Resistant	53 47⁄64"	7 1⁄32"	9⁄64"	**20LM36**	**20LM42**
	56	120/277VAC	2	T8-LED, 4FT	Acrylic	—	55½"	9 49⁄64"	6 43⁄64"	**20LN05**	—
	84	120/277VAC	3	T8-LED, 4FT	Acrylic	—	49 31⁄32"	7 31⁄32"	5 3⁄32"	**20LM58**	**20LM70**


No. 20LM39


No. 20LN24


No. 20LN57


No. 20LN01


No. 20LM98


No. 20LN18


No. 20LM68


No. 20LM36


No. 20LN05

Lamp Watts	Fixture Wattage	Voltage	Lamp Qty.	Lens Material	L	W	H	FIXTURES Item No.		FIXTURES WITH EMERGENCY BACKUP Item No.
Fluorescent										
Pendant										
24	48	120/277VAC	2	Tempered Borosilicate	27 7⁄64"	11 55⁄64"	7 19⁄64"	**20LM25**		—
32	64	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	7 19⁄64"	**20LM17**		**20LM21**
54	108	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	7 19⁄64"	**20LM13**		—
	216	120/277VAC	4	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	7 19⁄64"	**20LM15**		—
Surface										
17	34	120/277VAC	2	Tempered Borosilicate	27 7⁄64"	11 55⁄64"	8 31⁄32"	**20LM28**		—
	68	120/277VAC	4	Tempered Borosilicate	28 5⁄64"	25 15⁄64"	9 11⁄16"	**20LM33**		**20LM35**
24	48	120/277VAC	2	Tempered Borosilicate	27 7⁄64"	11 55⁄64"	8 31⁄32"	**20LM24**		—
	192	120/277VAC	8	Tempered Borosilicate	28 5⁄64"	25 15⁄64"	9 11⁄16"	**20LM32**		—
32	64	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	8 61⁄64"	**20LM16**		**20LM20**
54	108	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	8 61⁄64"	**20LM12**		—
	216	120/277VAC	4	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	8 61⁄64"	**20LM14**		—
	432	120/277VAC	8	Tempered Borosilicate	52 17⁄64"	25 15⁄64"	9 53⁄64"	**20LM06**		—
LED										
Adjustable U-Bracket										
150	150	120/277VAC	0	Tempered Glass	17 1⁄4"	7 13⁄32"	15 11⁄64"	**20LN54**	*	—
Pendant										
14	28	120/277VAC	2	Tempered Borosilicate	27 7⁄64"	11 55⁄64"	6 55⁄64"	**20LM23**		—
28	56	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	6 13⁄16"	**20LM11**		—
	56	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	7 19⁄64"	—		**20LM19**
150	150	120/277VAC	0	Tempered Glass	16 1⁄16"	13 27⁄32"	7 21⁄32"	**20LN23**	*	—
Surface/Suspended										
14	28	120/277VAC	2	Tempered Borosilicate	27 7⁄64"	11 55⁄64"	8 31⁄32"	**20LM22**		—
	56	120/277VAC	4	Tempered Borosilicate	28 5⁄64"	25 15⁄64"	9 11⁄16"	**20LM30**		—
28	56	120/277VAC	2	Tempered Borosilicate	51 31⁄64"	11 55⁄64"	8 61⁄64"	**20LM10**		**20LM18**
	112	120/277VAC	4	Tempered Borosilicate	52 17⁄64"	25 15⁄64"	9 53⁄64"	**20LM04**		**20LM08**

** No fail design with multiple power supplies and LED arrays.*


No. 20LM28


No. 20LN54


No. 20LM22


No. 20LM04

Explosionproof Fixtures

- Lamps included

Designed to provide general and task lighting in locations where there is a continuous presence of flammable gases and vapors. Rated Class 1 Division 1 Groups C and D, and Class 2 Division 1 Groups E, F, and G. Approved for use in paint spray booths. UL and C-UL Listed. Meet USCG specs.



No. 2PDJ6



No. 4KGR3



No. 2PDA4

	Standards
A	Class I, Div. 1 & 2, Groups C, D/Class I, Zones 1 & 2, Groups IIB, IIA/Class II, Div. 1 & 2, Groups E, F, G/Class III, Div. 1 & 2/NEMA 3, 4X, 7 (C, D), 9 (E, F, G)/Suitable for Wet Locations and Paint Spray Booths, UL/CSA
B	Class I Div 2 Groups A,B,C,D; Class II Div I & 2 Groups E, F, G, Wet Locations/NEMA 4/UL 1598A
C	Class I, Div. 2 groups A, B, C, D Class I, Zone 2, Groups IIC, IIB, IIA Class II, Div. 1 & 2, group E, F, G Aex nAII, Ex nAII Wet locations NEMA 4X, IP66
D	Class I, Div. 2 Groups A,B,C,D / Class I, Zones 2, Groups IIC,IIB,IIA / Class II, Div. 1 & 2, Groups F,G / AEx nAII, Ex nAII / Wet Locations / NEMA 4X, IP66

Hazardous Location Fluorescent Fixtures

HUBBELL KILLARK

- ¾" conduit hub
- Voltage range: 120-277VAC

Designed for use in hazardous or nonhazardous wet locations, and for indoor or outdoor general and task lighting where flammable gases/vapors or combustible dusts may be present. Nos. 2PDA4 and 4KGR5 include battery backup.

			Fiberglass Reinforced Polyester				Stainless Housing, Lexan Polycarbonate Lens			
Fixture Wattage	Lamp Qty.	Suggested Lamp Item No.	Housing Finish	Standards Key	Mfr. Model	Item No.	Housing Finish	Standards Key	Mfr. Model	Item No.
34	2	6XT99	White	D	LZ2N17230	**2PDJ6**	Natural 316 Specification Grade Stainless	C	LZ2S17230	**4KGR3**
56	2	5AE18	White	D	LZ2N28230	**10N093**	—	—	—	—
64	2	4PL16	White	D	LZ2NE2-32230	**2PDA4**	Natural 316 Specification Grade Stainless	C	LZ2SE2-32230	**4KGR5**
	2	4PL16	White	D	LZ2N32230	**6YE81**	Natural 316 Specification Grade Stainless	C	LZ2S32230	**4KGR4**
108	2	5AE33	White	D	LZ2N54230	**10N094**	—	—	—	—



No. 30YJ64



No. 4KGR1



No. 4KGP4

HUBBELL KILLARK

Hazardous Location Floodlights and Wall Packs

- Hazardous location rated Class I, Div. 2, Groups A, B, C, D/Class I, Zone 2, Groups IIC, IIB, IIA
- NEMA 4X wet location
- CSA Certified for U.S. and Canada

Housing is copper-free aluminum for cool operation. Bronze powder-coated finish.

FLOODLIGHTS

- Temp. range: -40° to 131°F (HPS), -22° to 131°F (MHPS), -58° to 131°F (LED)

Designed for heavy-duty applications where long life and maintenance-free service are required. Include yoke. Suitable for use around parking garages, factories, and perimeter security lighting.

WALL PACKS

- Temp. range: -40° to 104°F (HPS), -22° to 104°F (MHPS)

Designed for hazardous location areas and have an aesthetically pleasing appearance. Wall mount. Suitable for perimeter security lighting, parking garages, and walkways. Furnished with ½" hubs.

Description	For Use With	Mfr. Model	Item No.
Accessories			
Hazardous Location Reflector	V Series	KFL-DARKWW	**30YJ66**
Bronze Aluminum Glare Shield	KWP Series	PVLV	**4KGT4**
Wall Pack Plated Steel Guard	KWP Series	PGWG	**4KGT3**
Hazardous Location Steel Wall Bracket, For Use with 4KGT1	KF Series	K4040	**4KGT2**
Cast-Iron Cross Arm Fitting	KF Series	KFCB	**4KGT1**
Slip Fitter for 2" Ridgid Tenon	KF Series	KFS-6	**4KGR9**
Steel Wall Bracket With 2" Tenon	KF Series	4041	**4KGR8**

Lamp Watts	Lamp Type*	Suggested Lamp Item No.	Fixture Wattage	Voltage	L	W	H	Mfr. Model	Item No.
Hazardous Location Floodlights									
105	LED	—	105W	120 to 277VAC	17¾"	5 7/32"	14 9/64"	KFL10530WW	**30YJ65**
125	LED	—	125W	120 to 277VAC	17¾"	5 7/32"	14 9/64"	KFL12530WW	**30YJ64**
150	High Pressure Sodium	2VAD7	150W	120 to 480VAC	16⅜"	11"	18"	KFS150-76	**4KGP7**
175	Metal Halide	1E686	170W	120 to 480VAC	16⅜"	11"	18"	KFP170-76	**4KGP4**
250	High Pressure Sodium	6V250	250W	120 to 480VAC	16⅜"	11"	18"	KFS250-76	**4KGP6**
	Metal Halide	4PL07	250W	120 to 480VAC	16⅜"	11"	18"	KFP250-76	**4KGP3**
400	High Pressure Sodium	6VR48	400W	120 to 480VAC	16⅜"	11"	18"	KFS400-76	**4KGP5**
	Metal Halide	3JJ96	400W	120 to 480VAC	16⅜"	11"	18"	KFP400-76	**4KGP2**
Wall Packs									
100	High Pressure Sodium	4V604	100W	120 to 277VAC	14½"	7⅛"	14"	KWPS100	**4KGP8**
150	High Pressure Sodium	2VAD7	150W	120 to 277VAC	14½"	7⅛"	14"	KWPS150	**4KGP9**
	Metal Halide	2F192	150W	120 to 277VAC	14½"	7⅛"	14"	KWPP150	**4KGR1**
175	Metal Halide	1E686	175W	120 to 277VAC	14½"	7⅛"	14"	KWPP170	**4KGR2**

**** HPS=high-pressure sodium; MHPS=metal halide pulse start.***

LED Anti-Glare Wall Packs

LED anti-glare wall packs project a bright, clean light and reach full brightness instantly. They use LED lamps, which last longer and use significantly less energy than wall packs with other lamp types, such as high-pressure sodium or compact fluorescent. They also produce very little heat and can withstand temperature changes and humidity.

Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Sensor Type	Color	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
GE Lighting									
12W	120 to 277VAC	Type III	50 to 250W MH	—	Bronze	1500 lm	**426A06** *	1500 lm	**426A08**
25W	120 to 277VAC	Asymmetric	75 to 250W MH	—	Bronze	2900 lm	**48TM51**	2900 lm	**48TM52**
32W	120 to 277VAC	Asymmetric	75 to 250W MH	—	Bronze	—	—	3800 lm	**48TM54**
37W	120 to 277VAC	Type III	50 to 250W MH	—	Bronze	4000 lm	**426A09** *	—	—
41W	120 to 277VAC	Asymmetric	75 to 250W MH	—	Bronze	5000 lm	**48TM55**	5000 lm	**48TM56**
Hubbell Lighting									
13W	120 to 277VAC	Type III	70W HPS/MH	—	Bronze	1150 lm	**53VZ38**	1132 lm	**21RU44**
	120 to 277VAC	Type III	70W HPS/MH	Photocell	Bronze	1150 lm	**53VZ39**	1132 lm	**21RU45**
15W	120 to 277VAC	Type III	70W HPS/MH	Photocell	Bronze	1556 lm	**53WA12**	1613 lm	**53WA16**
	120 to 277VAC	Type III	70W HPS/MH	Photocell	White	1556 lm	**53WA13**	1613 lm	**53WA17**
	120 to 277VAC	Type III	70W HPS/MH	Photocell	Bronze	1550 lm	**53WA28**	—	—
	120 to 277VAC	Type III	70W HPS/MH	Photocell	White	1550 lm	**53WA29**	—	—
	120 to 277VAC	Type III	70W HPS/MH	Photocell	Bronze	1550 lm	**53WA44**	—	—
	120 to 277VAC	Type III	70W HPS/MH	Photocell	White	1550 lm	**53WA45**	—	—
	120 to 277VAC	Type III	70W HPS/MH	—	Bronze	—	—	1613 lm	**53WA14**
	120 to 277VAC	Type III	70W HPS/MH	—	White	—	—	1613 lm	**53WA15**
17W	120 to 277VAC	Type III	100W HPS/MH	—	Bronze	1539 lm	**53VZ45**	1500 lm	**21RU46**
	120 to 277VAC	Type III	100W HPS/MH	Photocell	Bronze	1500 lm	**53VZ46**	1539 lm	**53VZ53**
	120 to 277VAC	Type IV	100W HPS/MH	—	Bronze	1535 lm	**53VZ49**	1557 lm	**53VZ56**
	120 to 277VAC	Type IV	100W HPS/MH	Photocell	Bronze	1535 lm	**53VZ50**	1557 lm	**53VZ57**
20W	120 to 277VAC	Type III	70W HPS/MH	Photocell	Bronze	2310 lm	**53XX78**	2263 lm	**53XX77**
22W	120 to 277VAC	Type III	200W HPS/MH	—	Bronze	1989 lm	**53VZ60**	2024 lm	**21RU47**
	120 to 277VAC	Type III	200W HPS/MH	Photocell	Bronze	1989 lm	**53VZ61**	—	—
28W	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	2616 lm	**53VY33**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	2616 lm	**53VY34**	2629 lm	**53VY49**
	120 to 277VAC	Type IV	150W HPS/MH	Photocell	Bronze	2783 lm	**53VY42**	2797 lm	**53VY57**
	120 to 277VAC	Type III	175W HPS/MH	—	Bronze	—	—	2629 lm	**21RU50**
30W	120 to 277VAC	Type III	100W HPS/MH	Photocell	Bronze	3060 lm	**53XX80**	3270 lm	**53XX79**
	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	2789 lm	**53WA09**	3756 lm	**480F73**
	120 to 277VAC	Type III	150W HPS/MH	—	White	2789 lm	**53WA11**	2892 lm	**53WA21**
	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	2789 lm	**53WA18**	3756 lm	**480F74**
	120 to 277VAC	Type III	150W HPS/MH	Photocell	White	2789 lm	**53WA19**	2892 lm	**53WA23**
	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	2836 lm	**53WA25**	2892 lm	**53WA20**
	120 to 277VAC	Type III	150W HPS/MH	—	White	2836 lm	**53WA27**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	2836 lm	**53WA34**	2892 lm	**53WA22**
	120 to 277VAC	Type III	150W HPS/MH	Photocell	White	2836 lm	**53WA35**	—	—
	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	2836 lm	**53WA41**	—	—
	120 to 277VAC	Type III	150W HPS/MH	—	White	2836 lm	**53WA43**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	2836 lm	**53WA50**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Photocell	White	2836 lm	**53WA51**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Occupancy	Bronze	—	—	3756 lm	**480F75**
	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	—	—	3656 lm	**480F76**
	120 to 277VAC	Type IV	150W HPS/MH	Photocell	Bronze	—	—	3656 lm	**480F77**
42.7W	120 to 277VAC	Type IV	150W HPS/MH	Photocell	Bronze	4270 lm	**53VY71**	—	—
	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	4270 lm	**53VY70**	—	—
	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	4014 lm	**53VY65**	4033 lm	**53VY76**
	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	—	—	4033 lm	**45VT69**
50W	120 to 277VAC	Type III	150W HPS/MH	Photocell	Bronze	5526 lm	**53XX84**	5548 lm	**53XX83**
	120 to 277VAC	Type IV	200W HPS/MH	Photocell	Bronze	5664 lm	**480F71**	5678 lm	**480F83**
	120 to 277VAC	Type IV	200W HPS/MH	—	Bronze	5664 lm	**480F70**	5678 lm	**480F82**
	120 to 277VAC	Type III	200W HPS/MH	—	Bronze	—	—	5833 lm	**480F79**
	120 to 277VAC	Type III	200W HPS/MH	Photocell	Bronze	—	—	5833 lm	**480F80**
60W	120 to 277VAC	Type III	250W HPS/MH	—	Bronze	5702 lm	**53VY88**	5823 lm	**53VY94**
	120 to 277VAC	Type III	250W HPS/MH	Photocell	Bronze	5702 lm	**53VY89**	5823 lm	**53VY95**
	120 to 277VAC	Type IV	250W HPS/MH	—	Bronze	—	—	5863 lm	**53VY98**
70W	120 to 277VAC	Type III	175W HPS/MH	—	Bronze	—	—	7315 lm	**21RU57**
80W	120 to 277VAC	Type III	250W HPS/MH	Photocell	Bronze	8079 lm	**53XX86**	8061 lm	**53XX85**
83W	120 to 277VAC	Type IV	250W HPS/MH	—	Bronze	7402 lm	**53VZ05**	7559 lm	**53VZ11**
	120 to 277VAC	Type III	250W HPS/MH	—	Bronze	7352 lm	**53VZ01**	7508 lm	**53VZ07**
	120 to 277VAC	Type III	250W HPS/MH	Photocell	Bronze	7352 lm	**53VZ02**	—	—
140W	480VAC	Type IV	400W HPS/MH	—	Bronze	11,595 lm	**53VZ20**	11,886 lm	**53VZ25**
	120 to 277VAC	Type IV	400W HPS/MH	—	Bronze	—	—	11,886 lm	**53VZ22**
170W	120 to 277VAC	Type IV	400W HPS/MH	—	Bronze	14,118 lm	**53VZ27**	—	—
	480VAC	Type IV	400W HPS/MH	—	Bronze	14,118 lm	**53VZ31**	13,924 lm	**53VZ36**
Lithonia Lighting									
9W	120 to 277VAC	Type III	60W Inc/15W CFL	—	Black	533 lm	**420V84**	—	—
13W	120 to 277VAC	NEMA 4	100W HPS/MH	—	Bronze	1271 lm	**35FT21**	1289 lm	**35FT23**
14W	120 to 277VAC	Type III	100W Inc/26W CFL	—	Black	947 lm	**420V85**	—	—
18W	120 to 277VAC	Type I	50W HID	Photocell	Bronze	—	—	1436 lm	**6MGH3** #
20W	120 to 277VAC	Type V	150W HPS/MH	—	Bronze	—	—	2663 lm	**32JA17**
26W	120 to 277VAC	Type III	70W HPS/MH	—	Bronze	2757 lm	**31A134**	—	—
	120 to 277VAC	Type II	70W HPS/MH	—	Bronze	2684 lm	**31A133**	—	—
	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	5554 lm	**31A147**	—	—
	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	2808 lm	**31A146**	—	—
29W	120 to 277VAC	Type III	400W MH	—	Bronze	—	—	3607 lm	**53XH35**
31W	120 to 277VAC	Type III	100W MH	Photocell	Bronze	—	—	3020 lm	**21P670**
40W	120 to 277VAC	Type V	250W HPS/MH	—	Bronze	—	—	4079 lm	**32JA19**
44.3W	120 to 277VAC	Type III	250W MH	Photocell	Bronze	—	—	4300 lm	**21P671**
46W	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	5454 lm	**31A137**	—	—
	120 to 277VAC	Type II	150W HPS/MH	—	Bronze	5309 lm	**31A136**	—	—
	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	5343 lm	**31A138**	—	—
47W	120 to 277VAC	Type IV	150W HPS/MH	—	Bronze	5455 lm	**31A144**	—	—
	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	5529 lm	**31A143**	—	—
	120 to 277VAC	Type II	150W HPS/MH	—	Bronze	5360 lm	**31A142**	—	—
	120 to 277VAC	Type IV	175W HPS/MH	—	Bronze	5450 lm	**31A145**	—	—
49W	120 to 277VAC	Type III	400W MH	—	Bronze	6115 lm	**53XH38**	6222 lm	**53XH36**
71W	120 to 277VAC	Type III	150W HPS/MH	—	Bronze	8199 lm	**31A140**	—	—
	120 to 277VAC	Type II	150W HPS/MH	—	Bronze	7949 lm	**31A139**	—	—
78W	120 to 277VAC	Type V	400W MH	—	Bronze	—	—	10,000 lm	**38RZ79**
79W	120 to 277VAC	Type IV	400W MH	—	Bronze	9708 lm	**53XH39**	—	—
	120 to 277VAC	Type III	400W MH	—	Bronze	—	—	9611 lm	**53XH37**
LumaPro									
15W	120VAC	NEMA 6x6	250W HPS/MH	—	Bronze	—	—	1450 lm	**54EP96**
20W	120 to 277VAC	NEMA 5x5	150W MH	—	Black	—	—	2100 lm	**452N14**
50W	120 to 277VAC	NEMA 5x5	250W HPS/MH	—	Bronze	—	—	5250 lm	**446M65**

** 4000K color temp. # 5700 color temp.*



No. 48TM51



No. 53VY33



No. 53XH35



No. 31A143



No. 446M65


No. 23Y140


No. 23Y142


No. 4GWG7

High-Pressure Sodium & Metal Halide Anti-Glare Wall Packs

These anti-glare wall packs cast light downwards around building perimeters. They use either high-pressure sodium (HPS) or metal halide (MH) lamps. HPS and MH lamps produce a high-intensity light in either amber or natural light colors.

Lumens	Fixture Wattage	Voltage	Light Distribution	Color Temp.	Color	Item No.
High Pressure Sodium						
6400 lm	70W	120V AC	Type III	1900K	Bronze	**23Y140**
9500 lm	100W	120V AC	Type III	2000K	Bronze	**23Y141**
16,000 lm	150W	120V AC	Type III	2000K	Bronze	**23Y142**
Metal Halide						
8100 lm	100W	120V AC	Type III	4000K	Bronze	**23Y144**
5500 lm	70W	120-277VAC	Type IV	4000K	—	**4GWG8**
8100 lm	100W	120-277VAC	Type IV	4100K	—	**4GWG7**
40,000 lm	400W	120-277VAC	Type IV	4100K	—	**4GWH2**
14,000 lm	150W	120-277VAC	Type III	4300K	Bronze	**23Y145**
	150W	120-277VAC	Type IV	4300K	—	**4GWG9**


No. 656N69


No. 11K571


No. 489F05


No. 55FD80

Compact Wall Packs

Compact wall packs have a length or width less than 11" and take up a smaller mounting space than full-size wall packs, making them a good choice for exterior walls that have narrow surface areas. These outdoor lighting fixtures project widespread light onto building grounds and walkways to increase visibility for pedestrians and enhance security. They are typically used to illuminate commercial buildings, office complexes, recreational facilities, and apartment complexes.

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Color	Brand	Item No.
LED Compact Wall Packs								
Color Temperature: 4000K								
16.6W	120 to 277VAC	1858 lm	Type IV	50W HPS/70W MH/42W CFL	—	Bronze	Hubbell Lighting	**45VT70**
	120 to 277VAC	1858 lm	Type IV	50W HPS/70W MH/42W CFL	Photocontrol	Bronze	Hubbell Lighting	**45VT71**
8.4W	120 to 277VAC	800 lm	Type III	100W Incandescent	—	Bronze	Lithonia Lighting	**485C16**
28W	120-277V AC	3259 lm	Type IV	150W HPS/MH	—	Bronze	Hubbell Lighting	**656N69**
40W	120-277V AC	4394 lm	Type IV	175W HPS/MH	—	Bronze	Hubbell Lighting	**656N71**
Color Temperature: 5000K								
10W	120 to 277VAC	1200 lm	—	100W Inc/26W CFL	—	Bronze	W F Harris Lighting	**11K571**
16.3W	120 to 277VAC	1794 lm	Type IV	50W HPS/70W MH/42W CFL	—	Bronze	Hubbell Lighting	**45VT72**
	120 to 277VAC	1794 lm	Type IV	50W HPS/70W MH/42W CFL	Photocontrol	Bronze	Hubbell Lighting	**45VT73**
18W	120VAC	2124 lm	Type III	70W HPS/100W MH	Photocell	Bronze	Lithonia Lighting	**489F05**
15W	120-277VAC	1923	Type IV	100W HPS/MH	Photocell	Bronze	LumaPro	**55FD80**
28W	120-277V AC	3326 lm	Type IV	150W HPS/MH	—	Bronze	Hubbell Lighting	**656N70**
40W	120-277V AC	4400 lm	Type IV	175W HPS/MH	—	Bronze	Hubbell Lighting	**656N72**
11W	120-277V AC	1349 lm	Type III	50W HPS/MH	Photocell	Bronze	Hubbell Lighting	**656N75**
40W	120-277V AC	4008 lm	Type III	100W HPS/MH	Photocell	Bronze	Hubbell Lighting	**656N77**
High-Pressure Sodium (HPS)/Metal Halide (MH)/Induction/Compact Fluorescent (CFL) Compact Wall Packs								
Compact Fluorescent								
42W	120V AC	3200 lm	Type IV	—	Photocell	Bronze	LumaPro	**4GWG5**
High Pressure Sodium								
70W	120V AC	3500 lm	Type III	—	Photocell	Bronze	LumaPro	**5MM59**


No. 55FD76


No. 55MR40


No. 55MR19


No. 45VT78


No. 483P90

Full-Size Wall Packs

Full-size wall packs are wall-mounted outdoor lighting fixtures with a length or width greater than or equal to 11" that are typically used to illuminate large areas, such as commercial building perimeters and office complexes. They cast widespread light to provide added visibility and can help deter vandals and unauthorized access to perimeters. They are also a good choice for doorway and loading areas in need of extra security lighting, or places where dark sky compliance is not required.

Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Sensor Type	Color	Brand	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
LED Full-Size Wall Packs										
15W	120-277VAC	Type IV	150W MH	—	Bronze	LumaPro	—	—	3640	**55FD76**
20W	120 to 277VAC	Type IV	50W HID	Photocontrol	Bronze	Pila	2400 lm	**55MR40**	—	—
28W	120-277VAC	Type IV	175W MH	—	Bronze	LumaPro	—	—	5540	**55FD77**
32W	120 to 277VAC	Type III	250W HPS/MH	—	Bronze	Hubbell Lighting	—	—	3383 lm	**54EN89**
	480VAC	Type III	250W HPS/MH	—	Bronze	Hubbell Lighting	—	—	4277 lm	**54EN90**
40W	120-277VAC	Type IV	250W MH	—	Bronze	LumaPro	—	—	7065	**55FD78**
48W	120 to 277VAC	Type III	250W MH	—	Bronze	Lithonia Lighting	5174 lm	**483P92**	5174 lm	**483P93**
49W	120 to 277VAC	Type IV	150W HID	—	Bronze	Stonco	5541 lm	**55MR19**	—	—
50W	120-277VAC	Type IV	400W MH	—	Bronze	LumaPro	—	—	11375	**55FD79**
51	120-277VAC	Wide	70 to 250W MH	—	Bronze	Lithonia Lighting	6200	**55HA69**	6200	**55HA68**
54W	120 to 277VAC	Type IV	250W HPS/MH	—	Bronze	Hubbell Lighting	6170 lm	**45VT80**	6372 lm	**53VZ74**
72W	480VAC	Type IV	250W HPS/MH	—	Bronze	Hubbell Lighting	7889 lm	**53VZ79**	8064 lm	**53VZ80**
	120 to 277VAC	Type III	250W HPS/MH	—	Bronze	Hubbell Lighting	6615 lm	**45VT78**	6778 lm	**45VT79**
	120 to 277VAC	Type IV	250W HPS/MH	—	Bronze	Hubbell Lighting	7889 lm	**45VT76**	8064 lm	**45VT77**
	480VAC	Type III	250W HPS/MH	—	Bronze	Hubbell Lighting	6615 lm	**54EN87**	6778 lm	**54EN88**
76W	120 to 277VAC	Type IV	250W HID	—	Bronze	Stonco	8999 lm	**55MR18**	—	—
	120 to 277VAC	Type IV	400W HPS/MH	—	Bronze	Hubbell Lighting	8900 lm	**656N73**	9100 lm	**656N74**
78W	120 to 277VAC	Type III	400W MH	—	Bronze	Lithonia Lighting	9214 lm	**483P90**	9214 lm	**483P91**
102W	120 to 277VAC	Type IV	400W HPS/MH	—	Bronze	Hubbell Lighting	11,838 lm	**45VT81**	12,134 lm	**53VZ75**
110W	347/480V	Type IV	400W HID	—	Bronze	Hubbell Lighting	12,818 lm	**53VZ76**	—	—

Fixture Wattage	Voltage	Lumens	Light Distribution	Sensor Type	Color	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Induction/Compact Fluorescent (CFL) Full-Size Wall Packs							
Compact Fluorescent							
126W	120VAC	3200 lm	Type IV	—	—	LumaPro	**4GWG6**
High Pressure Sodium							
100W	120 to 277VAC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGP8**
150W	120 to 277VAC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGP9**
	120VAC	14,500 lm	Type III	—	Bronze	LumaPro	**5MM61**
Metal Halide							
150W	120 to 277VAC	14,000 lm	Type V	—	—	LumaPro	**3HNG3**
	120 to 277VAC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGR1**



EG2R Series
No. 48TM37



LXEP Series
No. 53XX87



LSQ Series
No. 488U68



CNY Series
No. 494P56



D Series
No. 26X711



VAP Series
No. 21P675



Canopy Light
No. 446M59

LED Garage and Canopy Fixtures

Garage and canopy lights are overhead lighting fixtures that cast widespread, uniform light in interior areas to increase visibility for pedestrians and vehicles. They mount to surfaces, pendants, or recesses of structure ceilings, soffits, or overhangs. Lighting fixtures project a widespread beam of light in building entrances and drive-through entryways to provide added visibility for pedestrians and vehicles.

Fixture Wattage	Voltage	LED Replacement For	Temp. Range	Light Distribution	Housing	L	W	4,000 K Lumens	4,000 K Item No.	5,000 K Lumens	5,000 K Item No.
GE Lighting											
ECLS Series											
29 W	120-277V AC	150W HPS/100W MH	-40° to 50°C	—	Cast Aluminum, White	14⅝"	14 ⅝ in	3,700 lm	**54YN72**	3,700 lm	**54YN74**
39 W	120-277V AC	150W HPS/100W MH	-40° to 50°C	—	Cast Aluminum, White	14⅝"	14 ⅝ in	5,400 lm	**54YN71**	5,400 lm	**54YN73**
EG2R Series											
56 W	120 to 277V	175W HPS/MH	-40 to 50°C	Type V	Cast Aluminum, White	9¾"	9 ¾ in	5,040 lm	**48TM37**	5,040 lm	**48TM38**
Hubbell Lighting											
CLED Series											
33 W	120-277V AC	100W HPS/MH	-40° to 40°C	Type V Square	Cast Aluminum, White	16"	16 in	3,975 lm	**53XX64**	—	—
66 W	120-277V AC	175W HPS/MH	-40° to 40°C	Type V Square	Cast Aluminum, White	16"	16 in	8,713 lm	**53XX62**	8,713 lm	**53XX63**
120 W	120-277V AC	400W HPS/MH	-40° to 40°C	Type V Square	Cast Aluminum, White	16"	16 in	14,754 lm	**53XX58**	14,754 lm	**53XX59**
	120-277V AC	400W HPS/MH	-40° to 40°C	Type V Square	Cast Aluminum, Dark Bronze	16"	16 in	—	—	14,754 lm	**53XX60**
	120-277V AC	400W HPS/MH	-40° to 40°C	Type V Square	Cast Aluminum, White	16"	16 in	—	—	14,754 lm	**53XX61**
LSQ Series											
40 W	120-277V AC	100W HPS/MH	-40° to 40°C	Type V Square	Aluminum, Dark Bronze	10"	10 in	4,600 lm	**488U66**	—	—
	120-277V AC	100W HPS/MH	-40° to 40°C	Type V Square	Aluminum, Gray	10"	10 in	4,600 lm	**488U67**	—	—
75 W	120 to 277V	250W HPS/MH	-40° to 40°C	Type V Square	Aluminum, Dark Bronze	14 1⅜16"	14 1⅜16 in	9,300 lm	**488U68**	—	—
	120 to 277V	250W HPS/MH	-40° to 40°C	Type V Square	Aluminum, Gray	14 1⅜16"	14 1⅜16 in	9,300 lm	**488U69**	—	—
LXEP Series											
—	120-277	2 Lamp T8	-40 to 25°C	—	Fiberglass, White	48"	6 ⅞ in	4,900 lm	**45VT41**	—	—
	120-277	2 Lamp LFL	-40° to 25°C	—	Fiberglass, White	51⅝"	6 ⅞ in	—	—	3,900 lm	**53XX87**
	120-277	2 Lamp LFL	-40° to 25°C	—	Fiberglass, White	51⅝"	6 ⅞ in	—	—	5,600 lm	**53XX89**
36 W	120-277V AC	(2) T8 LFL/HID	-40 to 25°C	—	Fiberglass, White	48"	6 ⅞ in	4,100 lm	**45VT40**	—	—
47 W	120-277V AC	(2) T8 LFL/HID	-40° to 25°C	—	Fiberglass, White	51⅝"	6 ⅞ in	—	—	4,900 lm	**53XX88**
52 W	120-277V AC	(2) T8 LFL/HID	-40 to 25°C	—	Fiberglass, White	48"	6 ⅞ in	5,850 lm	**45VT39**	—	—
SRT Series											
35 W	120 to 277V AC	100W HID	—	Type V	—	—	12 in	3,700 lm	**56DZ42**	—	—
	120 to 277V AC	100W HID	—	Type V	—	—	12 in	3,700 lm	**56DZ43** *	—	—
50 W	120 to 277V AC	175W HID	—	Type V	—	—	18 ½ in	6,000 lm	**56DZ46**	—	—
	120 to 277V AC	175W HID	—	Type V	—	—	18 ½ in	6,000 lm	**56DZ47** *	—	—
55 W	120 to 277V AC	100W HID	—	Type V	—	—	12 in	5,700 lm	**56DZ44**	—	—
	120 to 277V AC	100W HID	—	Type V	—	—	12 in	5,700 lm	**56DZ45** *	—	—
65 W	120 to 277V AC	175W HID	—	Type V	—	—	18 ½ in	8,000 lm	**56DZ48**	—	—
	120 to 277V AC	175W HID	—	Type V	—	—	18 ½ in	8,000 lm	**56DZ49** *	—	—
85 W	120 to 277V AC	250W HID	—	Type V	—	—	18 ½ in	10,000 lm	**56DZ50**	—	—
	120 to 277V AC	250W HID	—	Type V	—	—	18 ½ in	10,000 lm	**56DZ51** *	—	—
100 W	120 to 277V AC	400W HID	—	Type V	—	—	18 ½ in	12,000 lm	**56DZ52**	—	—
	120 to 277V AC	400W HID	—	Type V	—	—	18 ½ in	12,000 lm	**56DZ53** *	—	—
Lithonia Lighting											
CNY Series											
27 W	120-277V AC	100W HPS/MH	-40° to 40°C	—	Cast Aluminum, Dark Bronze	10"	10 in	3,500 lm	**494P56**	—	—
35 W	120-277V AC	150W MH	-40° to 40°C	—	Cast Aluminum, Dark Bronze	10"	10 in	4,500 lm	**494P57**	—	—
52 W	120-277V AC	175W MH	-40° to 40°C	—	Cast Aluminum, Dark Bronze	10"	10 in	6,600 lm	**494P58**	—	—
DSXPG Series											
37 W	120-277V AC	175W MH	-40C to 40C	Type V	Aluminum, White	17¾"	8 ½ in	4,130 lm	**26X726**	4,155 lm	**26X711**
	120-277V AC	175W MH	-40C to 40C	Type V	Aluminum, White	17¾"	8 ½ in	3,870 lm	**26X728**	3,894 lm	**26X713**
	120-277V AC	175W MH	-40C to 40C	Asymmetric	Aluminum, White	17¾"	8 ½ in	—	—	3,942 lm	**26X715**
46 W	120-277V AC	175W MH	-40 to 40°C	Asymmetric	Aluminum, White	17¾"	8 ½ in	—	—	5,543 lm	**26X716**
	120-277V AC	175W MH	-40 to 40°C	Asymmetric	Aluminum, White	17¾"	8 ½ in	—	—	7,653 lm	**26X725**
74 W	120-277V AC	175W MH	-40 to 40°C	Type V	Aluminum, White	17¾"	8 ½ in	8,019 lm	**26X739**	7,562 lm	**26X723**
	120-277V AC	175W MH	-40 to 40°C	Type V	Aluminum, White	17¾"	8 ½ in	7,986 lm	**26X737**	—	—
	120-277V AC	175W MH	-40 to 40°C	Type V	Aluminum, White	17¾"	8 ½ in	7,516 lm	**26X738**	—	—
OLCFM Series											
16.6 W	120V AC	100W Inc.	-30 to 40°C	Type V	Cast Aluminum, Bronze	11¾"	11 ¾ in	1,077 lm	**22LU32**	—	—
	120V AC	100W Inc.	-40° to 40°C	Type V	Aluminum, White	11¾"	11 ¾ in	1,077 lm	**53JT57**	—	—
PGX Series											
30 W	120-277V AC	175W MH	-40° to 104°F	Type V	Cast Aluminum, White	—	16 in	3,795 lm	**39UR39**	—	—
47 W	120-277V AC	175W MH	-40° to 104°F	Type V	Cast Aluminum, White	—	16 in	5,267 lm	**39UR38**	—	—
VAP Series											
33 W	120-277V AC	70W HID	-29 to 40°C	—	Polycarbonate, Opaque	54¾"	8 ¼ in	4,000 lm	**21P675**	—	—
LumaPro											
Canopy											
20 W	120-277V AC	100W HPS/MH	-40° to 104°F	—	Cast Aluminum, Bronze	10¼"	10 ¼ in	—	—	2,200 lm	**446M66**
30 W	120-277V AC	150W MH	-40° to 104°F	—	Cast Aluminum, Bronze	10¼"	10 ¼ in	—	—	3,320 lm	**446M67**
53 W	120-277V AC	250W HPS/MH	-40° to 104°F	—	Cast Aluminum, Bronze	10¼"	10 ¼ in	—	—	5,450 lm	**446M59**
Parking											
30 W	120-277V AC	175W HPS/MH	-35° to 40°C	—	Aluminum, Bronze	10¼"	10 ¼ in	—	—	4,060 lm	**53DK23**
W F Harris Lighting											
1200 LED											
45 W	120 to 277V AC	100W Inc./23 to 26W CFL	-40 to 50°C	—	Polycarbonate, Bronze	12 in	8 ¾ in	4,000 lm	**11K572**	—	—
30 LED											
10 W	120 to 277V AC	100W Inc./23 to 26W CFL	-40 to 50°C	—	Polycarbonate, Bronze	5 in	4 ¼ in	—	—	1,200 lm	**11K571**

Remote control programmable line voltage sensor.



Autobahn Series
No. 53XH19



ERS Series
No. 12C683



Ratio Series
No. 499H85



Sling Series
No. 56DZ58



Viper Large Series
No. 488U17

LED Area/Roadway Lighting

Long life, energy saving fixtures illuminate entry drives, parking lots, and walkways. 5-yr. limited warranty.

Acuity/Lithonia Lighting—Replace your halogen lighting to provide uniform lighting to the same area with fewer fixtures. Integrated monitoring systems and controls help deliver superior performance and help reduce total cost of ownership, with increased system life and reduced energy consumption and maintenance costs. Stainless steel bolts fasten the mounting block securely to poles and walls.

- Die-cast aluminum housings

GE—Outdoor LED lamps feature rugged wildlife protected housings, making them an excellent choice for area, site, and other outdoor lighthing applications, including street and roadway. An integrated heat sink helps extend LED life and further reduce cost of ownership.

- Die-cast aluminum housings

Hubbell—Energy efficient LED Area/Roadway lighting provides superior performance with long life and minimal maintenance, with lighting performance that is equal to or better than traditional HID lighting, at a fraction of the cost of ownership. Meet DLC standards.

- Die-cast aluminum housings
- Acrylic lens

LumaPro® Lighting—Sealed, maintenance-free die cast aluminum fixture is rust and corrosion resistant and has a bright anodized aluminum reflector. Full cutoff optics eliminate light pollution. Meets ETLus standards. RoHS compliant.

- Polycarbonate lens
- Mercury free
- IP65 rated

Fixture Wattage	Voltage	Lumens	Lumens Per Watt	Color Temp.	Color Index	Light Distribution	Fixture Housing Color	Mounting	LED Replacement For	Item No.
Acuity American Electric										
Autobahn Series										
18W	120 to 277VAC	2575 lm	143.0	4000K	70	Type II	Gray	—	50 to 150W HPS	**56FD71**
	120 to 277VAC	2735 lm	152.0	4000K	70	Type IV	Gray	—	50 to 150W HPS	**56FD72**
28W	120 to 277VAC	3890 lm	139.0	4000K	70	Type III	Gray	—	50 to 150W HPS	**56FD73**
	120 to 277VAC	4167 lm	149.0	4000K	70	Type IV	Gray	—	50 to 150W HPS	**56FD74**
40W	120 to 277VAC	5524 lm	138.0	4000K	70	Type III	Gray	—	100 to 200W HPS	**56FD75**
	120 to 277VAC	5758 lm	144.0	4000K	70	Type IV	Gray	—	100 to 200W HPS	**56FD76**
50W	120 to 277VAC	6760 lm	135.0	4000K	70	Type III	Gray	—	100 to 200W HPS	**56FD77**
	120 to 277VAC	7108 lm	142.0	4000K	70	Type IV	Gray	—	101 to 200W HPS	**56FD78**
60W	120 to 277VAC	8328 lm	139.0	4000K	70	Type III	Gray	—	106 to 200W HPS	**56FD83**
70W	120 to 277VAC	9355 lm	134.0	4000K	70	Type III	Gray	—	102 to 200W HPS	**56FD79**
	120 to 277VAC	9710 lm	139.0	4000K	70	Type IV	Gray	—	103 to 200W HPS	**56FD80**
82W	120 to 277VAC	10,826 lm	132.0	4000K	70	Type III	Gray	—	104 to 200W HPS	**56FD81**
	120 to 277VAC	11,181 lm	136.0	4000K	70	Type IV	Gray	—	105 to 200W HPS	**56FD82**
94W	120 to 277VAC	12,818 lm	136.0	4000K	70	Type III	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH19**
	120 to 277VAC	13,776 lm	147.0	4000K	70	Type V	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH20**
135W	120 to 277VAC	17,367 lm	129.0	4000K	70	Type III	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH21**
	120 to 277VAC	18,595 lm	138.0	4000K	70	Type V	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH22**
168W	120 to 277VAC	20,094 lm	120.0	4000K	70	Type III	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH23**
	120 to 277VAC	21,505 lm	128.0	4000K	70	Type V	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150 to 400W HPS	**53XH24**
GE Lighting										
Evolve® Series										
39W	120 to 277VAC	5000 lm	128.2	4000K	70	Type II Wide	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	100W HPS/MH	**12C673**
82W	120 to 277VAC	10,000 lm	122.0	4000K	70	Type II Wide	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	150W HPS/MH	**12C683**
84W	120 to 277VAC	9000 lm	107.1	4000K	70	Type II Wide	Gray	Adjustable Slipfitter for 1 ⅜ in or 2 ⅜ in O.D. Pipe	250W HPS/MH	**12C681**
101W	120 to 277VAC	15,000 lm	129.2	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV02**
116W	120 to 277VAC	15,000 lm	129.2	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZU95**
	120 to 277VAC	15,000 lm	129.2	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZU98**
	120 to 277VAC	15,000 lm	129.2	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV06**
140W	120 to 277VAC	20,000 lm	143.0	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZU96**
	120 to 277VAC	20,000 lm	143.0	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZU99**
	120 to 277VAC	20,000 lm	143.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV03**
	120 to 277VAC	20,000 lm	143.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV07**
187W	120 to 277VAC	25,000 lm	134.3	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV04**
	120 to 277VAC	25,000 lm	134.3	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV08**
239W	120 to 277VAC	30,000 lm	125.7	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZU97**
	120 to 277VAC	30,000 lm	125.7	4000K	70	Type IV Asymmetric Forward	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV01**
240W	120 to 277VAC	30,000 lm	125.7	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV05**
	120 to 277VAC	30,000 lm	125.7	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W MH	**54ZV09**
Hubbell Lighting										
Ratio Series										
100W	120 to 277VAC	12,000 lm	120.0	4000K	70	Type IV	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	**499H84**
	120 to 277VAC	12,000 lm	120.0	4000K	70	Type III	Dark Bronze	—	250W HID	**56DZ54**
140W	120 to 277VAC	18,000 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**499H85**
	120 to 277VAC	18,000 lm	129.0	4000K	70	Type IV	Dark Bronze	—	400W HID	**56DZ56**
165W	120 to 277VAC	21,000 lm	136.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**499H86**
	120 to 277VAC	21,000 lm	127.0	4000K	70	Type IV	Dark Bronze	—	400W HID	**56DZ55**
Sling Series										
40W	120 to 277VAC	5000 lm	125.0	4000K	70	Type V	Dark Bronze	—	175W HID	**56DZ59**
	120 to 277VAC	5000 lm	125.0	4000K	70	Type V	Gray	—	175W HID	**56DZ60**
60W	120 to 277VAC	8000 lm	133.0	4000K	70	Type V	Dark Bronze	—	400W HID	**56DZ57**
	120 to 277VAC	8000 lm	133.0	4000K	70	Type V	Gray	—	400W HID	**56DZ58**
Hubbell Lighting - Beacon										
Viper Large Series										
135W	120 to 277VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U21**
	120 to 277VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U19**
	120 to 277VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U17**
	480VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U22**
	480VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U20**
	480VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	**488U18**

CONTINUED

CONTINUED



Viper Small Series
No. 488U08



D-Series
No. 22EL96



KAX Series
No. 53XH48



NEMA Head Series
No. 48FP78



RSX1 LED Series
No. 494P64



LumaPro
No. 49WJ37

LED Area/Roadway Lighting

Fixture Wattage	Voltage	Lumens	Lumens Per Watt	Color Temp.	Color Index	Light Distribution	Fixture Housing Color	Mounting	LED Replacement For	Item No.	
180W	120 to 277VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U27	
	120 to 277VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U25	
	120 to 277VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U23	
	480VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U28	
	480VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U26	
	480VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U24	
280W	120 to 277VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U33	
	120 to 277VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U31	
	120 to 277VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U29	
	480VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U34	
	480VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U32	
	480VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U30	
395W	120 to 277VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U39	
	120 to 277VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U37	
	120 to 277VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U35	
	480VAC	17,009 lm	124.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U40	
	480VAC	17,163 lm	115.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U38	
	480VAC	17,791 lm	129.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	1000W HPS/MH	488U36	
Viper Small Series											
55W	120 to 277VAC	5921 lm	110.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	175W HPS/MH	488U09	
	120 to 277VAC	6015 lm	111.0	5000K	70	Type III	Dark Bronze	Round Pole, Square Pole	175W HPS/MH	488U08	
	120 to 277VAC	6028 lm	112.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	175W HPS/MH	488U10	
80W	120 to 277VAC	8881 lm	114.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	488U12	
	120 to 277VAC	9022 lm	111.0	5000K	70	Type III	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	488U11	
	120 to 277VAC	9043 lm	112.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	488U13	
136W	120 to 277VAC	14,802 lm	110.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U15	
	120 to 277VAC	15,037 lm	111.0	5000K	70	Type III	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U14	
	120 to 277VAC	15,083 lm	111.0	4000K	70	Type V Wide	Dark Bronze	Round Pole, Square Pole	400W HPS/MH	488U16	
Lithonia Lighting											
D-Series											
74W	120 to 277VAC	7573 lm	102.0	4000K	70	Type III	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	36ND55	
	120 to 277VAC	7620 lm	103.0	5000K	70	Type III	Dark Bronze	Round Pole, Square Pole	250W HPS/MH	36ND54	
89W	120 to 277VAC	11,835 lm	133.0	5000K	70	Type III	Dark Bronze	Square Pole	250W HPS/MH	22EL97	
	120 to 277VAC	12,280 lm	138.0	5000K	70	Type V	Dark Bronze	Square Pole	250W HPS/MH	22EL99	
102W	120 to 277VAC	12,742 lm	125.0	5000K	70	Type III	Dark Bronze	Square Pole	250W HPS/MH	22EL83	
	120 to 277VAC	12,742 lm	125.0	5000K	70	Type III	Dark Bronze	Round Pole	250W HPS/MH	22EL82	
	120 to 277VAC	13,221 lm	130.0	5000K	70	Type V	Dark Bronze	Round Pole	250W HPS/MH	22EL84	
134W	120 to 277VAC	16,177 lm	121.0	5000K	70	Type III	Dark Bronze	Square Pole	250W HPS/MH	22EM02	
138W	120 to 277VAC	16,040 lm	116.0	5000K	70	Type III	Dark Bronze	Square Pole	400W HPS/MH	22EL87	
	120 to 277VAC	16,644 lm	121.0	5000K	70	Type V	Dark Bronze	Square Pole	400W HPS/MH	22EL86	
185W	120 to 277VAC	24,373 lm	132.0	5000K	70	Type III	Dark Bronze	Square Pole	400W HPS/MH	22EL88	
	120 to 277VAC	24,373 lm	132.0	5000K	70	Type III	Dark Bronze	Round Pole	400W HPS/MH	22EL90	
	120 to 277VAC	25,290 lm	137.0	5000K	70	Type V	Dark Bronze	Square Pole	400W HPS/MH	22EL89	
270W	120 to 277VAC	35,105 lm	130.0	5000K	70	Type V	Dark Bronze	Round Pole	400W HPS/MH	22EL95	
—	120-277	11,835	133.0	5000K	67.0	Type III	Dark Bronze	Round Pole	250W HPS/MH	22EL96	
	120-277	12,280	138.0	5000K	67.0	Type V	Dark Bronze	Round Pole	250W HPS/MH	22EL98	
KAX Series											
96W	120 to 277VAC	12,750 lm	133.0	5000K	70	Type V	Dark Bronze	Round Pole	400W MH	53XH41	
130W	120 to 277VAC	16,609 lm	128.0	4000K	70	Type III	Dark Bronze	Round Pole	400W MH	53XH42	
	120 to 277VAC	16,902 lm	130.0	5000K	70	Type III	Dark Bronze	Round Pole	400W MH	53XH44	
	120 to 277VAC	18,251 lm	140.0	4000K	70	Type V	Dark Bronze	Round Pole	400W MH	53XH43	
	120 to 277VAC	18,572 lm	143.0	5000K	70	Type V	Dark Bronze	Round Pole	400W MH	53XH45	
160W	120 to 277VAC	22,217 lm	139.0	5000K	70	Type V	Dark Bronze	Round Pole	400W MH	53XH47	
200W	120 to 277VAC	26,572 lm	133.0	5000K	70	Type III	Dark Bronze	Round Pole	1000W HPS/MH	53XH48	
248W	120 to 277VAC	33,389 lm	135.0	5000K	70	Type III	Dark Bronze	Round Pole	1000W HPS/MH	53XH52	
	120 to 277VAC	36,674 lm	148.0	5000K	70	Type V	Dark Bronze	Round Pole	1000W HPS/MH	53XH53	
—	120 to 277	11,603	121.0	5000K	70.0	Type III	Dark Bronze	Round Pole	400W MH	53XH40	
	120 to 277	20,219	126.0	5000K	70.0	Type III	Dark Bronze	Round Pole	400W MH	53XH46	
	120 to 277	29,186	146.0	5000K	70.0	Type V	Dark Bronze	Round Pole	1000W HPS/MH	53XH49	
	120 to 277	32,812	131.0	4000K	70.0	Type III	Dark Bronze	Round Pole	1000W HPS/MH	53XH50	
	120 to 277	36,040	143.1	4000K	70.0	Type V	Dark Bronze	Round Pole	1000W HPS/MH	53XH51	
NEMA Head Series											
64W	120 to 277VAC	6600 lm	103.1	4000K	70	Type V	Silver	Adjustable Slipfitter for 1 ⅝ in or 2 ⅜ in O.D. Pipe	100W HPS/MH	48FP78	*
RSX1 LED Series											
109W	120 to 277VAC	14,397 lm	132.0	4000K	70	Type V Wide	Dark Bronze	Square Pole	70 to 400W MH	494P59	
133W	120 to 277VAC	16,360 lm	123.0	4000K	70	Type III Wide	Dark Bronze	Round Pole	70 to 400W MH	494P60	
	120 to 277VAC	16,574 lm	125.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole	70 to 400W MH	494P61	
	120 to 277VAC	16,796 lm	126.0	4000K	70	Type V Wide	Dark Bronze	Round Pole	70 to 400W MH	494P62	
147W	120 to 277VAC	22,022 lm	150.0	4000K	70	Type IV Wide	Dark Bronze	Square Pole	400 to 1000W MH	494P64	
244W	120 to 277VAC	30,267 lm	124.0	4000K	70	Type III Wide	Dark Bronze	Round Pole	400 to 1000W MH	494P65	
	120 to 277VAC	30,663 lm	126.0	4000K	70	Type IV Wide	Dark Bronze	Round Pole	400 to 1000W MH	494P63	
	120 to 277VAC	31,075 lm	127.0	4000K	70	Type V Wide	Dark Bronze	Round Pole	400 to 1000W MH	494P66	
LumaPro											
34W	120 to 277VAC	3325 lm	99.0	5000K	78	Type V	Bronze	Wall	150W HPS/MH	49WJ37	
60W	120 to 277VAC	7990 lm	133.5	5000K	75	Type V	Dark Bronze	Square Pole	250W HPS/MH	436R33	
100W	120 to 277VAC	12,540 lm	125.2	5000K	75	Type V	Silver	Slipfitter ⅜ in O.D. Pipe	250W HPS/MH	446M58	
140W	100-277V AC	8400 lm	60.0	5700K	73	Type V	Dark Bronze	—	100W HPS/MH	45C243	

***Photocontrol**

Item	For Use With	Housing Finish	Housing Material	L	H	W	Brand	Mfr. Model	Item No.
Accessories									
Pole Bracket	Round and Square Poles	Bronze	Die Cast Aluminum	10"	4½"	6"	Lithonia Lighting	PUMBA DDBXD U	20JN98



115 Series
No. 5YB45



No. 2LBL6

HID Roadway and Security Fixtures

Durable, lightweight, die-cast aluminum fixtures bolt securely onto mast arm mounting.

LITHONIA LIGHTING ROADWAY

- Photocontrol receptacle adjusts without tools
- Bolt to 1¼"-dia. mast arm mounting

Built in wildlife shield adjusts to fit most arms. Heat resistant gasket seals the optical chamber from environmental contaminants. Terminal block standard. Nos. 5YB45 to 5YB47 are pre-wired and include hardware.

AREA/SECURITY LIGHTING

- Include cast-in external slipfitter for easy mast arm installation
- Die-cast aluminum head meets NEMA dimension standards

Nos. 4VM79 feature lightweight aluminum housing, prismatic refractor, and a 5" mounting arm. Nos. 2LBL6 have a powder-coated housing, high-impact diffuser, and protective steel cage. No. 5YB44 features a cooler-running ballast, 392°F wiring, and phosphor bronze contacts. UL Listed.

MOUNTING BRACKETS AND ACCESSORIES

Steel brackets for pole or wall mounting have 42-lb. capacity. No. 4EA34 has 87-lb. capacity.

Series	Max. Fixture Wattage	Fixture Voltage	Lens Type	Light Distribution	Suggested Photocell Item No.	Fixture Length	Fixture Width	Fixture Height	Suggested Lamp Item No.	Brand	Item No.	
Fixed Beam Angle Light												
Metal Halide												
TDD	100.0	120	Acrylic	Type V	LC4521C	15 ½ in	13 in	17 in	2YGD6	Lithonia Lighting	**6JEM7**	
High Pressure Sodium												
—	70.0	120	Acrylic	Type V	LC4521C	12 ¼ in	9 ½ in	16 ¼ in	2YGF6	LumaPro	**4VM79**	
11	100.0	120	Acrylic	Type V	LC4521C	15 ½ in	12 in	12 in	2YGF4	Lithonia Lighting	**5YB44**	
Fixed Beam Light												
Metal Halide												
—	100.0	120	Acrylic	Type V	LC4521C	15 ½ in	13 in	17 in	—	LumaPro	**2LBL6**	
Parking Lot Light Fixture												
KAD	400.0	120 to 277	Tempered Glass	Type III	—	17 ½ in	17 ½ in	7 ⅛ in	6XV25	Lithonia Lighting	**3JXC6**	
High Pressure Sodium												
115	100.0	120	Drop Acrylic	Type II	LC4521C	10 in	13 in	27 in	2V519	Lithonia Lighting	**5YB45**	*
	150.0	120	Drop Acrylic	Type II	LC4521C	10 in	13 in	27 in	2VAD7	Lithonia Lighting	**5YB46**	*
	250.0	120 to 277	Drop Glass	Type III	LC4536C	10 in	13 in	27 in	3APT5	Lithonia Lighting	**5YB47**	*

Description	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Mounting Brackets and Accessories						
Wall Arm Mount, Use with KAD Series	4 in	2 in	5 in	Lithonia Lighting	WBD04	**4EA33**
Pole Slipfitter Bracket Mount	14 ¾ in	2 ⅞ in	2 ⅞ in	Lithonia Lighting	T20-190	**4EA34**
Round Pole Mount (Fits 4" Pole), Use with KAD Series	4 in	2 in	5 in	Lithonia Lighting	RPD04 U	**4EA35**
Photocell Receptacle Shorting Cap	—	—	—	GE Lighting	SCCL-PECTL003	**4WY49**

**** Photo cell receptacle.***



No. 54ZX48



No. 21RU79



No. 54ZH58



No. 6MPA6

Pole Mount Floodlights

Pole mount floodlights are outdoor lighting fixtures that project a bright, high-intensity light over large outside areas to increase visibility and enhance safety of pedestrians. They are installed on poles and are typically used to illuminate parking lots, parks, sports fields, and industrial yards.

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
LED Pole Mount Floodlights											
Yoke; Color Temperature: 4000K											
94W	120 to 277VAC	13,200 lm	NEMA 6x6	250W HPS/MH	No Sensor Included	Dark Bronze	14 ½ in	3 ¼ in	14 ⅞ in	Lithonia Lighting	**54ZX48**
Slipfitter; Color Temperature: 5000K											
170W	120 to 277VAC	18,023 lm	NEMA 5x5	400W HPS/MH	No Sensor Included	Metallic Titanium	14 ⅝ in	9 ⅜ in	16 ⅜ in	Hubbell Lighting - Beacon	**21RU79**
220W	120 to 277VAC	21,702 lm	NEMA 5x5	250W HPS/MH	No Sensor Included	Metallic Titanium	15 in	12 in	17 in	Hubbell Lighting - Beacon	**45VT31**
Slipfitter; Color Temperature: 4000K											
94W	120 to 277VAC	13,200 lm	NEMA 6x6	250W HPS/MH	No Sensor Included	Dark Bronze	14 ½ in	3 ¼ in	14 ⅞ in	Lithonia Lighting	**54ZX49**
Knuckle; Color Temperature: 4000K											
54W	120 to 277VAC	7300 lm	NEMA 6x6	150W HPS/MH	No Sensor Included	Dark Bronze	10 in	3 ¼ in	9 ⅜ in	Lithonia Lighting	**54ZX50**
Knuckle; Color Temperature: 3000K											
10.5W	120 to 277VAC	592 lm	NEMA 5x5	100W Incandescent/23 to 26W CFL	No Sensor Included	Dark Bronze	7 13⁄16 in	3 ½ in	5 ¼ in	Lithonia Lighting	**21YH18**
Knuckle, Slipfitter; Color Temperature: 5000K											
30W	120 to 277VAC	5000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH62**
64W	120 to 277VAC	10,000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH60**
96W	120 to 277VAC	15,000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH58**
Knuckle, Slipfitter; Color Temperature: 4000K											
30W	120 to 277VAC	5000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH63**
64W	120 to 277VAC	10,000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH61**
96W	120 to 277VAC	15,000 lm	NEMA 7x6	250W HPS/250 to 400W MH	No Sensor Included	Dark Bronze	5 ⅛ in	16 ⅜ in	22 in	GE Lighting	**54ZH59**
Halogen/Incandescent Pole Mount Floodlights											
Halogen											
35W	120V AC	—	—	—	No Sensor Included	Black	2 ¾ in	2 in	6 ⅜ in	LumaPro	**6MPA6**
50W	120V AC	—	—	—	No Sensor Included	Black	3 ¼ in	2 ½ in	7 ¾ in	LumaPro	**6MPA8**


No. 56DZ61


No. 499H93


No. 55MR32


No. 487A97


No. 49WJ22

Universal Mount Floodlights

Universal mount floodlights are outdoor lighting fixtures that project a bright, high-intensity light over a widespread area to increase visibility. They can be mounted on walls, ceilings, poles, or the ground. They are typically one of several floodlights used to illuminate sports fields, parks, building exteriors, and industrial yards.

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
LED Universal Mount Floodlights											
Knuckle; Color Temp: 3000K											
15W	120 to 277VAC	1500 lm	NEMA 7x7	70W HPS/MH	—	Dark Bronze	5 in	4 1/2 in	2 1/2 in	Hubbell Lighting	**499H87**
20	120VAC	2000 lm	Type V	70W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ61**
Knuckle; Color Temp: 4000K											
15W	120 to 277VAC	1500 lm	NEMA 7x7	70W HPS/MH	—	Dark Bronze	5 in	4 1/2 in	2 1/2 in	Hubbell Lighting	**499H88**
20	120VAC	2000 lm	Type V	70W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ62**
21W	120 to 277VAC	3058 lm	—	70W HPS/MH	No Sensor Included	Dark Bronze	12 in	8 7/8 in	3 in	Lithonia Lighting	**52XH92**
25W	120 to 277VAC	3000 lm	NEMA 6x6	1000W HPS/MH	No Sensor Included	Dark Bronze	7 15/16 in	7 1/2 in	2 1/2 in	Hubbell Lighting	**499H89**
26	120 to 277VAC	4500 lm	Type V	100W HID	Button Photocontrol	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ69**
34W	120 to 277VAC	4551 lm	NEMA 6x6	100W HPS/MH	—	Dark Bronze	9 3/8 in	9 51/64 in	2 1/2 in	Hubbell Lighting	**499H90**
	120 to 277VAC	4551 lm	NEMA 6x6	100W HPS/MH	Photocell	Dark Bronze	9 3/8 in	9 51/64 in	2 1/2 in	Hubbell Lighting	**499H91**
52W	120 to 277VAC	6823 lm	NEMA 6x6	100W HPS/MH	—	Dark Bronze	9 3/8 in	9 51/64 in	2 1/2 in	Hubbell Lighting	**499H92**
124	120 to 277VAC	15,000 lm	Type V	320W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ64**
150W	120 to 277VAC	14,665 lm	NEMA 6x6	400W MH	No Sensor Included	Bronze	19 in	6 in	14 7/8 in	Hubbell Lighting	**53VR79**
266W	120 to 277VAC	32,000 lm	NEMA 6x6	400W HPS/MH	—	Dark Bronze	9 3/8 in	18 1/8 in	2 1/2 in	Hubbell Lighting	**499H94**
Trunnion; Color Temp: 4000K											
124W	120 to 277VAC	15,000 lm	NEMA 6x6	320W HPS/MH	—	Dark Bronze	9 3/8 in	13 25/32 in	3 1/2 in	Hubbell Lighting	**499H93**
266W	120 to 277VAC	30,106 lm	NEMA 6x6	400W HPS/MH	—	Dark Bronze	9 3/8 in	18 1/8 in	2 1/2 in	Hubbell Lighting	**499H95**
Yoke; Color Temp: 4000K											
10W	120VAC	1000 lm	Type V Symmetric Wide	100W HAL	No Sensor Included	—	—	—	—	Pila	**55MR31**
30W	120VAC	3000 lm	Type V Symmetric Wide	50W HID	No Sensor Included	—	—	—	—	Pila	**55MR32**
54W	120-277V AC	7300 lm	—	150W HPS/MH	No Sensor Included	Dark Bronze	10 1/4 in	3 1/4 in	9 3/8 in	Lithonia Lighting	**54ZX51**
70W	120VAC	—	Type V Symmetric Wide	100W HID	No Sensor Included	—	—	—	—	Pila	**55MR34**
100W	120 to 277VAC	12,439 lm	NEMA 6x6	250W HID	No Sensor Included	—	—	—	—	Stonco	**55MR25**
150W	120 to 277VAC	14,665 lm	NEMA 6x6	400W MH	No Sensor Included	Dark Bronze	19 in	6 in	14 7/8 in	Hubbell Lighting	**53VR81**
Knuckle; Color Temp: 5000K											
10.9W	120 to 277VAC	832 lm	NEMA 2	100W Incandescent/23 to 26W CFL	No Sensor Included	Dark Bronze	7 13/16 in	3 1/2 in	3 1/2 in	Lithonia Lighting	**21YH21**
11.3W	120 to 277VAC	839 lm	NEMA 5x5	100W Incandescent/23 to 26W CFL	No Sensor Included	Dark Bronze	7 13/16 in	3 1/2 in	5 1/4 in	Lithonia Lighting	**21YH19**
21W	120 to 277VAC	3058 lm	—	70W HPS/MH	No Sensor Included	Dark Bronze	12 in	8 7/8 in	3 in	Lithonia Lighting	**52XH91**
26	120 to 277VAC	3200 lm	Type V	100W HID	Button Photocontrol	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ67**
	120 to 277VAC	3200 lm	Type V	100W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ68**
42W	120 to 277VAC	5573 lm	—	150W HPS/MH	No Sensor Included	Dark Bronze	12 in	8 7/8 in	3 in	Lithonia Lighting	**52XH93**
52	120 to 277VAC	4400 lm	Type V	100W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ66**
54W	120 to 277VAC	7793 lm	—	150W HPS/MH	No Sensor Included	Dark Bronze	12 in	12 3/4 in	3 in	Lithonia Lighting	**52XH94**
78W	120 to 277VAC	10,678 lm	—	250W HPS/MH	No Sensor Included	Dark Bronze	12 in	12 3/4 in	3 in	Lithonia Lighting	**52XH95**
124	120 to 277VAC	14,700 lm	Type V	320W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ65**
150W	120 to 277VAC	14,764 lm	NEMA 6x6	400W MH	No Sensor Included	Bronze	19 in	6 in	14 7/8 in	Hubbell Lighting	**53VR80**
266	120 to 277VAC	29,000 lm	Type V	10000W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ70**
Threaded Arm; Color Temp: 5000K											
28W	120 to 277VAC	3185 lm	NEMA 6x6	150W HPS/MH	No Sensor Included	Bronze	6 13/16 in	5 13/64 in	7 49/64 in	LumaPro	**39UU86**
Trunnion; Color Temp: 5000K											
124	120 to 277VAC	14,700 lm	Type V	320W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ63**
150W	120 to 277VAC	18,800 lm	NEMA 6x6	400 to 1000W MH	7-Pin Receptacle	Dark Bronze	4 29/32 in	19 19/64 in	23 3/4 in	Evolve	**487A97**
266	120 to 277VAC	29,000 lm	Type V	10000W HID	No Sensor Included	Dark Bronze	—	—	—	Hubbell Lighting	**56DZ71**
297W	120 to 277VAC	38,100 lm	NEMA 7x6	400 to 1000W MH	7-Pin Receptacle	Dark Bronze	4 29/32 in	19 19/64 in	23 3/4 in	Evolve	**487A99**
U-Bracket; Color Temp: 5000K											
14W	120 to 277VAC	1235 lm	NEMA 2x2	75W Incandescent/18 to 20W CFL	No Sensor Included	Bronze	3 1/2 in	4 5/8 in	3 1/2 in	LumaPro	**49WJ16**
	120 to 277VAC	1260 lm	NEMA 6x6	75W Incandescent/18 to 20W CFL	No Sensor Included	Bronze	3 1/2 in	4 5/8 in	3 1/2 in	LumaPro	**49WJ22**
18W	120 to 277VAC	2000 lm	NEMA 2x2	100W Incandescent/23 to 26W CFL	No Sensor Included	Bronze	5 1/2 in	7 1/4 in	5 1/2 in	LumaPro	**49WJ17**
19W	120 to 277VAC	1985 lm	NEMA 6x6	100W Incandescent/23 to 26W CFL	No Sensor Included	Bronze	5 35/64 in	7 13/64 in	5 35/64 in	LumaPro	**49WJ23**

CONTINUED

CONTINUED

Universal Mount Floodlights

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
Yoke; Color Temp: 5000K											
40W	120-277V AC	4907 lm	Type V	150W MH	Photocell	Bronze	5 ½ in	7 ⅛ in	6 ¼ in	LumaPro	**55FD74**
	120-277V AC	4460 lm	Type II	150W MH	Photocell	Bronze	5 ½ in	7 ⅛ in	6 ¼ in	LumaPro	**55FD75**
49W	120 to 277VAC	5290 lm	NEMA 6x6	250W HPS/MH	No Sensor Included	Bronze	7 7⁄16 in	9 in	8 in	LumaPro	**453D94**
150W	120 to 277VAC	14,764 lm	NEMA 6x6	400W MH	No Sensor Included	Bronze	19 in	6 in	14 ⅞ in	Hubbell Lighting	**53VR82**

Fixture Wattage	Voltage	Lumens	Light Distribution	Sensor Type	Lamp Incl.	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Induction/Compact Fluorescent (CFL) Universal Mount Floodlights											
Compact Fluorescent											
13W	120 to 277VAC	900 lm	NEMA 5	No Sensor Included	Yes	Gray	4 15⁄32 in	—	7 ⅞ in	Hubbell Killark	**6JEN2**
Halogen											
400W	120VAC	—	NEMA 7x6	Photocell Receptacle	No	Bronze	14 5⁄8 in	7 in	16 in	Lithonia Lighting	**3JXE7**
High Pressure Sodium											
150W	120VAC	—	NEMA 6x6	No Sensor Included	Yes	Dark Bronze	6 ½ in	6 ⅛ in	8 ⅞ in	Lithonia Lighting	**3GA99**
250W	120 to 480VAC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 ⅜ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3GA92**
400W	120 to 480VAC	38,000 lm	—	No Sensor Included	Yes	Bronze	16 ⅛ in	6 ⅛ in	15 ¾ in	Lithonia Lighting	**4EA37**
	120 to 480VAC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 ¾ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3GA97**
	120 to 480VAC	40,000 lm	NEMA 7x6	Photocell Receptacle	Yes	Bronze	12 ¾ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3YA66**
Metal Halide											
150W	120-277V AC	14,000 lm	—	No Sensor Included	Yes	Bronze	9 ¼ in	7 1⁄16 in	13 ¾ in	LumaPro	**3HNG2**
400W	120 to 277VAC	38,000 lm	NEMA 7x6 Horizontal	No Sensor Included	Yes	Bronze	16 ⅛ in	6 ⅛ in	15 ¾ in	Lithonia Lighting	**3JXA5**
	120 to 277VAC	38,000 lm	NEMA 7x6 Horizontal	No Sensor Included	Yes	Bronze	16 ⅛ in	6 ⅛ in	15 ¾ in	Lithonia Lighting	**3JXA6**
	120 to 277VAC	38,000 lm	NEMA 7x6 Horizontal	No Sensor Included	Yes	Bronze	16 ⅛ in	6 ⅛ in	15 ¾ in	Lithonia Lighting	**3JXA7**
	120 to 277VAC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 ¾ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3JXC2**
	120 to 277VAC	40,000 lm	NEMA 7x6	No Sensor Included	Yes	Bronze	12 ¾ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3JXC3**
	120 to 277VAC	40,000 lm	NEMA 7x6	Photocell Receptacle	Yes	Bronze	12 ¾ in	10 ¾ in	17 ⅜ in	Lithonia Lighting	**3JXC4**
1500W	480VAC	—	—	—	No	Bronze	31 ½ in	21 ½ in	31 ½ in	Lithonia Lighting	**7G208**



ALF Series
No. 13T375



No. 31LA59

Ground Mount Floodlights

Ground mount floodlights are outdoor lighting fixtures that aim a bright, high-intensity light upward to spotlight objects and increase their visibility. They are installed on a ground surface and commonly used to illuminate signs, building facades, statues, flagpoles, and landscaping.

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Fixture Housing Color	H	W	L	Item No.
LED Ground Mount Floodlights										
Swivel; Color Temperature: 3,000 K										
10 W	120 to 277V AC	1,078 lm	NEMA 3x3	75W HAL	No Sensor Included	Black	6 ¼ in	3 in	5 ½ in	**31LA59**
	120 to 277V AC	938 lm	NEMA 4x4	75W HAL	No Sensor Included	Black	6 ¼ in	3 in	5 ½ in	**31LA60**
	120 to 277V AC	1,078 lm	NEMA 3x3	75W HAL	No Sensor Included	Dark Bronze	6 ¼ in	3 in	5 ½ in	**31LA61**
	120 to 277V AC	938 lm	NEMA 4x4	75W HAL	No Sensor Included	Dark Bronze	6 ¼ in	3 in	5 ½ in	**31LA62**
11 W	120 to 277V AC	1,031 lm	NEMA 1	75W HAL	No Sensor Included	Black	7 ¼ in	5 ⅛ in	9 in	**31LA63**
	120 to 277V AC	1,031 lm	NEMA 1	75W HAL	No Sensor Included	Dark Bronze	7 ¼ in	5 ⅛ in	9 in	**31LA65**
Knuckled Swivel; Color Temperature: 5,000 K										
10.7 W	120 to 277V AC	905 lm	NEMA 6x5	70W HPS/ MH/26W CFL	No Sensor Included	Dark Bronze	7 in	1 ½ in	12 in	**13T375**



No. 20LN57



No. 3RB19

Wall Mount Floodlights

Wall mount floodlights are outdoor lighting fixtures that project a bright, high-intensity over a wide-spread area to increase visibility. They have an adjustable beam and mount to an exterior wall, making them a good choice for precise lighting of building grounds, landscapes, or walkways.

Fixture Wattage	Voltage	Lumens	Color Temp.	Light Distribution	LED Replacement For	Fixture Housing Color	Mount Type	H	W	L	Brand	Item No.
LED Wall Mount Floodlights												
150 W	100 to 277 V AC or 11 to 25V AC/11 to 25V DC	17,500 lm	5,600 K	NEMA 6x6	400W MH	Brown	Trunnion	13 9⁄64 in	10 ⅞ in	14 ½ in	Larson Electronics Llc	**20LN57**
300 W	120 to 277V AC	29,580 lm	—	—	1000W MH	Brown	Trunnion	19 ¾ in	9 ⅛ in	17 49⁄64 in	Larson Electronics Llc	**20LN58**

Fixture Wattage	Voltage	Lumens	Lamp Incl.	Fixture Housing Color	H	W	D	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Halogen/Compact Fluorescent (CFL) Wall Mount Floodlights									
Halogen									
150 W	120V AC	2,800 lm	Yes	Bronze	5 in	5 in	6 ¾ in	LumaPro	**3RB19**
High Pressure Sodium									
150 W	120V AC	14,500 lm	Yes	Bronze	9 ½ in	10 ½ in	9 in	LumaPro	**5MM45**


No. 53UL78


No. 53UL65


No. 53UL76


No. 53UM97

LED Outdoor Accent Lights

These high efficiency, virtually maintenance free LED lights throw off a bright white light that is attractive and effective. Die-cast aluminum housing. Suitable for use in wet locations.

Watts	Voltage	Lumens	CRI	Color Temp.	Light Distribution	Housing Finish	Includes	Rated Life	Length	Width	Height	Item No.
Bullet Floodlight												
Hubbell Lighting												
13.2	120	1,115 lm	83	3,000 K	Wide Flood	Dark Bronze	6¾ in Stake	80,000 hr	3 ¾ in	3 ½ in	3 ½ in	**53VR57**
LED Accent Light												
Hadco												
2/10	12V AC	131 to 710 lm	70	4,000 K	Adjustable	Black	Zoomable Lens, Interchangeable Lens, Mounting Stake	50,000 hr	5 in	2 ¼ in	—	**53UL77**
2/10	12V AC	131 to 710 lm	70	4,000 K	Adjustable	Bronze		50,000 hr	5 in	2 ¼ in	—	**53UL78**
2/10	12V AC	111 to 669 lm	70	3,000 K	Adjustable	Black		50,000 hr	5 in	2 ¼ in	—	**53UL79**
7	12V AC	460 lm	70	3,000 K	Flood	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth, Fully Rotatable Shroud, Mounting Stake	25,000 hr	5 13⁄16 in	2 13⁄16 in	—	**53UL71**
7	12V AC	460 lm	70	3,000 K	Narrow Flood	Black		25,000 hr	5 13⁄16 in	2 13⁄16 in	—	**53UL72**
7	12V AC	460 lm	70	3,000 K	Flood	Bronze		25,000 hr	5 13⁄16 in	2 13⁄16 in	—	**53UL73**
7	12V AC	460 lm	70	3,000 K	Narrow Flood	Bronze		25,000 hr	5 13⁄16 in	2 13⁄16 in	—	**53UL74**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Black	Interchangeable Optics 20°, 36°and 65°	50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL64**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Bronze		50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL65**
10/13/19/27/33	120 to 277V AC	3,271 lm	70	3,000 K	Adjustable	Black		50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL67**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Bronze	Interchangeable Optics 20°, 36°and 65°, 10K Surge Suppressor	50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL66**
10/13/19/27/33	120 to 277V AC	3,271 lm	70	3,000 K	Adjustable	Black		50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL68**
10/13/19/27/33	120 to 277V AC	932 to 3271 lm	70	3,000 K	Adjustable	Bronze		50,000 hr	10 39⁄64 in	6 7⁄64 in	—	**53UL70**
13	120V AC	700 lm	70	2,700 K	Narrow Flood	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth	25,000 hr	9 ½ in	5 5⁄16 in	—	**53UL61**
13	120V AC	700 lm	70	2,700 K	Narrow Flood	Bronze		25,000 hr	9 ½ in	5 5⁄16 in	—	**53UL62**
18	120V AC	700 lm	70	3,000 K	Narrow Flood	Bronze		25,000 hr	8 9⁄16 in	6 ¼ in	—	**53UL63**
Mini LED Light												
Hadco												
2	12V AC	105 lm	70	3,000 K	Omnidirectional	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth, Shroud, Mounting Stake	50,000 hr	4 ⅜ in	2 in	—	**53UL75**
2	12V AC	105 lm	70	3,000 K	Omnidirectional	Bronze		50,000 hr	4 ⅜ in	2 in	—	**53UL76**
3.8	12V AC	897 lm	80	4,000 K	Flood	Bronze	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth, Pre-Wired Fixture	50,000 hr	5 in	6 ⅞ in	5 9⁄16 in	**53UM98**
9	120V AC	170 to 805 lm	80	3,000 K, 4,000 K	Flood	Bronze		50,000 hr	5 in	6 ⅞ in	5 9⁄16 in	**53UM97**

**** Includes cord and plug.***

Landscape Lighting

PHILIPS HADCO ★ LumaPro

Floodlight fixtures are built to withstand harsh outdoor conditions, improve nighttime visibility, and provide security on walkways, driveways, and paths. Locking-teeth design allows precise head positioning and keeps fixtures solidly in place. Die-cast aluminum hoods increase light control while keeping water and dirt out of fixtures. Glass lenses provide additional protection against water and dirt. Mounting Post (required where noted) converts for ½" riser or 3" mount; PVC construction.

Item	For Use With	Item No.
LumaPro Accessories		
Hood	6MPC0	**6MPC1**
Housing	Mfr. No. RSB2, RSC2 or RSF2	**53UN33**
Housing	Mfr. No. RSB2, RSC2 or RSF2	**53UN34**
Lens	6MPC0	**6MPC2**
Shroud Light	—	**53UL40**
Shroud Light	—	**53UL41**
Shroud Light	—	**53UL42**
Shroud Light	—	**53UL43**
Shroud Light	—	**53UL44**

Type	Wattage	Voltage	Lamp Incl.	Fixture Housing Color	Housing Material	Mounting	L (in.)	H	Item No.
LumaPro									
Halogen									
Mini Bullet	50	12V AC	Yes	Black	Cast Aluminum	Post	7¾	3 ¼ in	**6MPA9** *
Incandescent									
Bullet	50	120V AC	No	Black	Cast Aluminum	Post	6	5 ½ in	**6MPC0** *
Hadco									
HID, Incandescent									
PAR-30, R-30, PAR-38, R-40, Medium Base	100	120V AC	No	Bronze	Cast Aluminum	Inground	8 9⁄16 in	—	**53UL57**
PAR-20	50	120V AC	Yes	Black	Cast Aluminum	Inground	8 ½ in	—	**53UL53**
	50	120V AC	Yes	Bronze	Cast Aluminum	Inground	8 ½ in	—	**53UL54**
Incandescent									
MR-16 Bi-Pin	35	12V AC	No	Bronze	Polycarbonate	Inground	4⅛	—	**53UM68**
	75	12V AC	No	Bronze	Fiberglass	Inground	6⅝	—	**53UM65**
PAR-38 or R-40 Incandescent	150	120V AC	No	Bronze	Cast Aluminum	Inground	7 3⁄16 in	—	**53UL39**
	300	120V AC	No	Bronze	Cast Aluminum	Inground	8 9⁄16 in	—	**53UL48**
PAR-30 or R-30, Medium Base	75	120V AC	No	Black	Cast Aluminum	Inground	9 ½ in	—	**53UL55**
	75	120V AC	No	Bronze	Cast Aluminum	Inground	9 ½ in	—	**53UL56**
	100	120V AC	No	Bronze	Cast Aluminum	Inground	9 ½ in	—	**53UL47**
PAR-20 or R-20, Medium Base	100	120V AC	No	Black	Cast Aluminum	Inground	5 7⁄16 in	—	**53UL45**
	100	120V AC	No	Bronze	Cast Aluminum	Inground	5 7⁄16 in	—	**53UL46**
Incandescent with Rock Guard									
MR-16 Bi-Pin	75	12V AC	No	Bronze	Fiberglass	Inground	6⅝	—	**53UM64**
Quartz									
MR-16	35	12V AC	Yes	Black	Polycarbonate	Inground	6 ½ in	—	**53UL58**
	35	12V AC	Yes	Bronze	Polycarbonate	Inground	6 ½ in	—	**53UL59**
	50	12V AC	Yes	Black	Cast Aluminum	Inground	5 13⁄16 in	—	**53UL49**
	50	12V AC	Yes	Bronze	Cast Aluminum	Inground	5 13⁄16 in	—	**53UL50**
	50	12V AC	Yes	Black	Cast Aluminum	Inground	5 ½ in	—	**53UL51**
	50	12V AC	Yes	Bronze	Cast Aluminum	Inground	5 ½ in	—	**53UL52**

**** Requires Mounting Post No. 6MPC9, sold separately.***


No. 6MPC0


No. 53UL57


No. 53UL59


No. 488U74


No. 420V87

LITHONIA LIGHTING · HUBBELL

LED Motion Sensor and Security Lighting

- Rated avg. life: 50,000 hr.
- Color temp.: 4000K
- 120V

Highly efficient LED lamps offer long life and up to 86% energy savings versus compatible incandescents. Corrosion-resistant cast-aluminum housing. Wall- or eave-mount to a recessed junction box.

No. of Heads	Fixture Wattage	Lumens	LED Replacement For	Fixture Housing Color	Brand	Item No.
Photocell						
2	25W	2160 lm	90W PAR	Dark Bronze	Lithonia Lighting	**490P84**
3	36W	3100 lm	150W PAR	Dark Bronze	Lithonia Lighting	**490P83**
3	36W	3100 lm	150W PAR	White	Lithonia Lighting	**490P86**
Passive Infrared with Photoresistor						
2	26.6W	2104 lm	150W PAR	White	Hubbell Lighting	**488U74**
2	26.6W	2104 lm	150W PAR	Dark Bronze	Hubbell Lighting	**488U75**
Motion, Photocell						
2	25W	2160 lm	90W PAR	White	Lithonia Lighting	**420V87**
2	25W	2160 lm	(2) 90W Incandescent	Dark Bronze	Lithonia Lighting	**490P82**


No. 38RZ99


No. 2LBN1


No. 4VW95

LumaPro

Outdoor Lighting Motion Sensors and Lampholder Kits

- Not for use with fluorescent or inductive lighting
- Weatherproof with integrated circuit technology
- Large areas of coverage
- 120V

Passive infrared motion sensors constantly scan areas for changes in temperature or motion, turning lights on only when ambient light is below the set level and motion is detected. Lights stay on for a programmed length of time.

Incandescent models use max. 150W lamps (not included); order No. 2CVA5. Quartz models use two 250W halogen lamps (included); for replacement, order No. 4XLJ1.

No. of Heads	Fixture Wattage	Coverage	Lamp Incl.	Sensor Type	Housing Finish	Item No.
Adjustable Beam Angle Light						
Incandescent						
2	150W	70 ft.	No	Motion	White	**38RZ88**
2	240W	60 ft.	No	Motion	Bronze	**38RZ85**
2	240W	60 ft.	No	Motion	White	**38RZ86**
2	240W	70 ft.	No	Motion	White	**38RZ90**
2	240W	70 ft.	No	Motion	White	**38RZ92**
2	300W	7700 sq. ft.	No	Passive Infrared	Bronze	**2LBL9**
Halogen						
1	500W	21,000 sq. ft.	Yes	Passive Infrared	Bronze	**2LBN2**
2	200W	70 ft.	Yes	Motion	Bronze	**38RZ99**
2	200W	70 ft.	Yes	Motion	White	**38TA01**
2	300W	7700 sq. ft.	Yes	Passive Infrared	Bronze	**2LBN1**
2	300W	70 ft.	Yes	Motion	Bronze	**38RZ95**
2	500W	23,500 sq. ft.	Yes	Passive Infrared	Bronze	**4VW95**
Security Light Motion Sensors						
		Fixed Beam Angle Light		Motion	Bronze	**38TA02**
		Fixed Beam Angle Light		Motion	White	**38TA03**


No. 21A124


No. 21A135


No. 21A139


No. 14G259


No. 14G263


No. 14G273


No. 14G270

HUBBELL · TAYMAC · WF Harris Lighting Innovative Lighting Designs Since 1970

Swivel Lampholders

- 120V
- Lamp not included (except Nos. 21A124, 21A125, and 21A126)

Swivel lampholders provide light in any direction, wherever it's needed.

WF HARRIS

Weatherproof and rustproof lampholders are made from unbreakable polycarbonate and carry a lifetime warranty against breakage. Designed especially for coastal regions with caustic salty environments.

Socket Type	Includes	Mounting	L	Dia.	GRAY Item No.	BRONZE Item No.	WHITE Item No.
Taymac, Die Cast Aluminum							
Lampholder Kits							
Standard E26	2 Lamp Holders , Round Lamp Holder Cover and Round Box	Wall or Ceiling	—	—	**21A134**	—	**21A138**
Standard E26	2 Lamp Holders and Round Lamp Holder Cover	Wall or Ceiling	—	—	—	**21A136**	**21A137**
Lampholders							
Standard E26	Lamp Holder	½"- 14NPSM	3⅛"	2.-1/3"	**21A130**	**21A131**	—
GY 8.6 Type 4	Lamp, Lamp Holder	½"- 14NPSM	5½"	3⅛"	**21A124**	**21A125**	**21A126**
Standard E26	Lamp Holder	½"- 14NPSM	3⅛"	2.-1/3"	**21A127**	**21A128**	**21A129**
Photocell Lampholder Kits							
Standard E26	2 Lamp Holders , Round Lamp Holder Cover, Photo Photo Eye and Round Box	Wall or Ceiling	—	—	**21A139**	—	—
SpikeLight Lampholder Kit							
Standard E26	Spike Light with Cord	Ground Spike	—	—	**21A135**	—	—

Fixture Type	Socket Type	Mounting	WHITE Item No.	BRONZE Item No.	BLACK Item No.
WF Harris, Polycarbonate					
Lampholders					
Single	Standard E26	Cross Bar	**14G258**	**14G259**	**14G260**
Double	Standard E26	Cross Bar	**14G261**	**14G262**	**14G263**
Threaded	Standard E26	Locknut	—	—	**14G273**

Description	Type	Item No.
WF Harris Accessories		
Surface Mount Wiring Box	Black	**14G264**
Surface Mount Wiring Box	White	**14G265**
Surface Mount Wiring Box	Bronze	**14G266**
Hood	Snap-On,White	**14G270**
Hood	Snap-On,Bronze	**14G271**
Hood	Snap-On,Black	**14G272**

Weatherproof Aluminum Lampholders

LumaPro

- 120V
- Lamps not included

Recommended for outdoor use with medium base PAR38 screw-in lamps. Adjustable threaded ½" NPT mounting with lock nut (included). Listed for wet locations when aimed below horizontal.

HEAVY-DUTY PARHOLDER

Recommended for use with 250W lamp. Ribbed die-cast aluminum design maximizes heat dissipation. Features porcelain socket and multipart gasket with metal ring.

GENERAL PURPOSE PARHOLDER

Recommended for use with 150W max. lamp. Die-cast aluminum housing with weather-resistant rubber gasket.

Description	Housing Finish	Dia. (in.)	L (in.)	Item No.
Heavy-Duty Parholder	Powder Coated Gray	3	6.5	3RB21
General Purpose Parholder	Powder Coated Gray	2	5	3RB22



Heavy-Duty Parholder



General Purpose Parholder



No. 3GPE7



No. 44MN33



No. 34VE68



No. 34VE71

Step Lights

HUBBELL® PROGRESS LIGHTING PHILIPS HADCO PHILIPS CHLORIDE

- Die-cast aluminum housing

Decorative fixtures provide accent and area lighting for walkways and stairways, indoors or out.

Philips Chloride—User selectable, 3-level intensity control lets you adjust lighting to create just the right ambiance for your spaces. J-box mount. UL Listed for wet locations.
- Operating temp.: -30° to 104°F
- Polycarbonate lens

Hubbell—Fixtures are UL certified and IP66 rated.
- Operating temp.: -40° to 122°F
- Tempered glass lens

Lumens	Color Temp.	Light Color	Voltage	Housing Color	L	H	W	Brand	Item No.
LED Step Light									
61 lm	3000K	—	120 to 277VAC	Black	9⅜"	3½"	4½"	Hubbell Lighting - Kim	3GPE7
61 lm	3000K	—	120 to 277VAC	Bronze	9⅜"	3½"	4½"	Hubbell Lighting - Kim	3GPE9
65 lm	3000K	—	120V AC	White	2¼"	4¾"	3"	Progress Lighting	44MN33
167 lm	3000K	—	120 to 277VAC	Black	9⅜"	3½"	4½"	Hubbell Lighting - Kim	3GPE8
167 lm	3000K	—	120 to 277VAC	Bronze	9⅜"	3½"	4½"	Hubbell Lighting - Kim	3GPF1
500/100	3000K	—	120VAC	Bronze	3½"	3½"	9"	Hadco	53UN37
Mini LED Step Light									
148.7	3500K	White	120VAC	White	4½"	2¾"	1½"	Chloride	34VE68
148.7	3500K	—	120VAC	Black	4½"	2¾"	1½"	Chloride	34VE71
148.7	—	Amber	120VAC	White	4½"	2¾"	1½"	Chloride	34VE69
148.7	—	Blue	120VAC	White	4½"	2¾"	1½"	Chloride	34VE70
148.7	—	Blue	120VAC	Black	4½"	2¾"	1½"	Chloride	34VE73
149 lm	3500K	Amber	120VAC	Black	4½"	2¾"	1½"	Chloride	34VE72

LED Bollards

PHILIPS HADCO HUBBELL®

Bollards provide attractive accent and guide lighting for walkways, entrances, courtyards, and similar landscaped areas.

Watts	Voltage	Lumens	CRI	Color Temp.	Housing Color	Light Distribution	Operating Temp. Range	Rated Life	H	W	Mfr. Model	Item No.
Hadco												
DB Series												
9.5	120	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr.	14"	6"	DB14HA012LE	53UM38
9.5	120	800 lm	75	2700K	Black	360°	25° to 40°C	25,000 hr.	21"	6"	DB21AA012LE	53UM39
9.5	120	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr.	21"	6"	DB21HA012LE	53UM40
9.5	120	800 lm	75	2700K	Black	360°	25° to 40°C	25,000 hr.	31¾"	6"	DB30AA012LE	53UM41
9.5	120	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr.	31¾"	6"	DB30HA012LE	53UM42
RD6 Series												
25	120	800 lm	80	2700K	Black	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RD6AKF10NA	53UM43
RF6 Series												
9.5	120	800 lm	80	2700K	Black	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6AK512LWE	53UM44
9.5	120	800 lm	80	2700K	Black	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6AKF12LWE	53UM46
25	120 to 277	800 lm	80	4000K	Black	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6AKF10NA	53UM45
25	120 to 277	800 lm	80	4000K	Bronze	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6HKF10NA	53UM47
25	120 to 277	800 lm	80	3000K	Bronze	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6HKF10WA	53UM48
25	120 to 277	800 lm	80	4000K	Gray	360°	25° to 40°C	50,000 hr.	37⅞"	6"	RF6IKF10NA	53UM49
Hubbell Lighting												
Fresno Series												
27	120 to 277	1095 lm	70	5000K	Dark Bronze	Cont.-Asym. (Type III)	-20 to 104°F	50,000 hr.	42"	7"	FN212LU5KDB	21RU59
41	120 to 277	1955 lm	70	5000K	Dark Bronze	Symmetrical	-20 to 104°F	50,000 hr.	42"	7"	FN224LU5KDB	21RU65
Tempe Series												
27	120 to 277	1095 lm	70	5000K	Dark Bronze	Cont.-Asym. (Type III)	-20 to 104°F	50,000 hr.	41½"	7"	TMR12LU5KDB	21RU60



No. 53UM42



No. 21RU59



No. 21RU60


No. 53UN16


No. 53UN19


No. 53UN24


No. 53UN08


No. 53UN01


No. 53UN04


No. 53UN05


No. 53UN06

PHILIPS
HADCO

Pathway Lights

Simply position these lights at regular intervals along the sides of a pathway to guide the way and help prevent nighttime trips and falls. LED fixtures are pre-wired and include quick connector and mounting stake


No. 53UN21


No. 53UN22

Lumens	Voltage	Color Temp.	Housing Color	L	H	W	Mfr. Model	Item No.
LED								
105 lm	12	3000K	Bronze	4¾"	20"	4¾"	CPL12-HS7LED2W	**53UN12**
105 lm	12	3000K	Bronze	6"	23⅛"	6"	CUL7-S7LED2W	**53UN16**
105 lm	12	3000K	Black	5⅛"	19½"	5⅛"	MUL4-AS7LED2W	**53UN17**
105 lm	12	3000K	Green	5⅛"	19½"	5⅛"	MUL4-GS7LED2W	**53UN18**
105 lm	12	3000K	Bronze	5⅛"	19½"	5⅛"	MUL4-HS7LED2W	**53UN19**
105 lm	12	3000K	Black	10"	17¼"	10"	RL4-AS7LED2W	**53UN20**
105 lm	12	3000K	Green	10"	17¼"	10"	RL4-GS7LED2W	**53UN21**
105 lm	12	3000K	Bronze	10"	17¼"	10"	RL4-HS7LED2W	**53UN22**
105 lm	12	3000K	Black	8"	16⅜"	8"	RL9-AS7LED2W	**53UN23**
105 lm	12	3000K	Bronze	8"	16⅜"	8"	RL9-HS7LED2W	**53UN24**
Incandescent								
200 lm	12	—	Powder Coated	5⅛	19½	5⅛	MUL4-AS7	**53UN07**
—	12	—	Powder Coated	5⅛	19½	5⅛	MUL4-HS7	**53UN08**
—	12	—	Powder Coated	10	17¼	10	RL4-AS7	**53UN09**
200 lm	12	—	Powder Coated	4¾	20	4¾	CPL12-AS7	**53UM99**
—	12	—	Copper	6	16¼	6	CUL6S7	**53UN01**
—	12	—	Copper	1	22⅜	6⅛	GAL3-ACS7	**53UN03**
—	12	—	Stainless Steel	1	22⅜	6⅛	GAL3-SSS7	**53UN04**
—	120	—	Powder Coated	9	25	9	MU5-A	**53UN05**
—	120	—	Powder Coated	9	25	9	MU5-H	**53UN06**


No. 53UM93

PHILIPS
HADCO

LED Deck and In-Ground Lights

- Operating temp.: 77° to 104°F

I15 SERIES AND I3 SERIES

Feature a single-piece composite housing with separate sealed components. IP68 rated.

IL9 SERIES

Rugged, all-weather construction.

IUL516 SERIES

Luminaire features an ULTEM® composite housing and is pre-wired for easy installation.

Lumens	Voltage	Color Temp.	CRI	Housing Color	Rated Life	L	H	W	Mfr. Model	Item No.
LED In-Ground Light										
i15 Series										
800 lm	120V AC	4,000 K	80	Silver	50,000 hr	9 ¾ in	6 in	3 ½ in	I15SSFLC	**53UM75**
IL9 Series										
111 lm, 681 lm	12V AC	4,000 K	70	Black	50,000 hr	4 7⁄64 in	5 in	4 7⁄64 in	IL9DC-A	**53UM93**
iUL516										
460 lm	12V AC	3,000 K	70	Bronze	25,000 hr	4 ⅛ in	4 ⅜ in	4 ⅛ in	IUL516-HLED7NFW	**53UM96**


No. 23M539

Southwire

Landscape Lighting Wire

- 2 Stranded Copper Conductors
- Rated 150 Volts
- Black PVC Insulation/Jacket

Landscape lighting wire is a low-voltage, low-energy wire typically buried underground that is used to connect a power supply to outdoor lighting products. It has a multistrand conductor and a weather-resistant jacket that can withstand harsh conditions both above and below ground. Landscape lighting wire is used in a range of outdoor lighting applications, including floodlights, emergency egress lighting, and security lights.

Wire Size	Nominal O.D.	50 ft Item No.	100 ft Item No.	250 ft Item No.	500 ft Item No.
Landscape Lighting Wire					
16 AWG	0.31 in x 0.16 in	**24W818**	**24W819**	**23M541**	—
14 AWG	0.35 in x 0.17 in	**24W816**	**23M540**	—	**24W817**
12 AWG	0.39 in x 0.20 in	—	**24W813**	**23M539**	**24W815**
10 AWG	0.21 in x 0.41 in	—	—	**55CX79**	**55CX80**


No. 3D672


No. 3D673


No. 3D671


No. 655Z03


No. 36WH45

HUBBELL® Wiring Device-Kellems

shat-r-shield

Fluorescent Lampholders

Item	Socket Type	Mounting	Watts	Voltage	Color	Mfr. Model	Item No.
Hubbell Wiring Device-Kellems							
Fluorescent	Single Pin FA8	Slide-on, Snap-in	660W	600VAC	White	RL310	**3D672**
Lamp Holder	Single Pin FA8	Slide-on, Snap-in	660W	600VAC	White	RL311	**3D673**
Lamp Holder	Bipin G13	Slide-on, Snap-in	660W	600VAC	White	HBL2937	**3D671**
Miracle Led							
Socket Extender	—	—	100	120	White	602219	**655Z03**
Shat-R-Shield							
Lamp Holder	E26	Screw	300W	600VAC	Yellow	WTLB	**36WH45**
	E26	Pendant	300W	600VAC	Yellow	WTNB	**36WH46**
	E26	Screw	300W	600VAC	Yellow	WTSB	**36WH47**


No. 36WH46


No. 36WH47



No. 4D241

HUBBELL® Wiring Device-Kellems

Fluorescent Starters

2-pin ceramic condensers. UL Listed. CSA Certified.

Ballast Max. Lamp Watts	Replacement For	Mfr. Model	Item No.
8	FS-5	FS5	**4D244**
25	FS-25	FS25	**4D241**
40	FS-4	FS4	**4D242**



No. 5PWK3


No. 5PWK5


No. 12H986

LUTRON®

Fan Speed Controls

Dual-Slide Controls Nos. 5PWK3 and 5PWK4 feature slide up to increase fan speed or slide down to decrease fan speed, and a slide up to brighten lights or slide down to dim lights. Slide Controls Nos. 5PWK5 and 5PWK6 feature slide up to increase fan speed or slide down to decrease fan speed. All models feature quiet, 3-speed design and include wallplate.120VAC.

Type	Max. Amps	Mfr. Model	WHITE Item No.	IVORY Item No.	ALMOND Item No.
Dual Slide to Off	1.5	S2-LFSQ	**5PWK3**	**5PWK4**	—
Slide to Off	1.5	SFSQ-F	**5PWK5**	**5PWK6**	—
Rocker Switch with Captive Linear	1.5	CTFSQ-F	**12H984**	**12H985**	**12H986**

LUTRON®

Specification Series Incandescent Dimmers

Use in demanding applications and higher wattage installations. Full-range dimmers feature heavy-duty components, including cooling fins, to resist power surges and prolong dimmer life. Voltage compensation circuitry and superior RFI filtering. Single pole. Includes face plate.

Trade Name	Style	600W White Item No.	600W Ivory/Beige Item No.	1000W White Item No.	1000W Ivory/Beige Item No.	1500W White Item No.	1500W Ivory/Beige Item No.	2000W White Item No.	2000W Ivory/Beige Item No.
Nova	Slide	**6A681**	**4LZ57**	**6A682**	**4LZ46**	**6A683**	**4LZ49**	**6A684**	**4LZ53**
Nova T	Slide	**5PWP1**	—	**5PWP2**	—	**5PWP3**	—	**5PWP4**	—


Nova
No. 6A681



Credenza®
No. 13M198



Ariadni®
No. 4LX84



Diva®
No. 4YPG9



Maestro®
No. 4LZ39



Skylark®
No. 4V260

LUTRON®

Incandescent/CFL/LED Dimmers

- **C•L dimmers are for use with LED and CFL lamps**

Dimmers save energy and increase lamp life up to 20 times the original lifespan. RFI filtering reduces interference with computer systems, intercoms, and sound systems. 60 Hz only. All are UL and CSA Listed, except Credenza® and Skylark® Contour™ are C-UL Listed.

Ariadni®—Designed to work with existing traditional multi-gang wall plates, to replace or match traditional-style switches. With an easy-to-use toggle switch and a small slide dimmer.

Credenza®—Get simple, effective dimming for just about any lamp, including table and floor lamps, with no need for 3-way bulbs. Simply plug the lamp directly into the dimmer, and the dimmer directly into the wall; the dimmer switch can be placed on a tabletop for easy access, and operated with a simple sliding switch.

Diva®—Designed to match your existing designer-style switches, with a paddle switch and a small, unobtrusive slider that lets you adjust the lights to the perfect level.

Maestro®—Dimmers give you full-range dimming at up to 10 locations. Use only 1 smart dimmer per circuit and up to 9 companion dimmers (Nos. 4LZ40 or 4LZ41; sold separately).

Skylark®—A convenient rocker switch turns the lights on and off, while an easy-to-use slide control lets you adjust light level. Can be used with most decorator-style wall plates (not included).

Nova®—Slide-to-off, slide-to-brighten dimmer provides simple control of light levels in just about any room.

Style	Switch Type	Wall Plate	Voltage	Max. Cap.	WHITE Item No.	IVORY Item No.	ALMOND Item No.	BROWN Item No.	BLACK Item No.
CFL, LED, Halogen, Incandescent									
Ariadni® C•L									
Toggle	1-Pole, 3-Way	Not Included	120VAC	150W (CFL/LED), 600W (Incandescent/Halogen)	10P922	10P923	10P924	—	—
Credenza®									
Slide	1-Pole	Not Included	120VAC	100W/250W	13M198	—	—	13M199	13M201
Diva® C•L									
Paddle	1-Pole, 3-Way	Not Included	120VAC	150W (CFL/LED), 600W (Incandescent/Halogen)	10P916	10P917	10P918	—	—
Maestro®									
Rocker	Multilocation	Not Included	120VAC	—	4LZ41	4LZ40	—	—	—
Maestro® C•L									
Rocker	Multilocation	Not included	120VAC	150W (CFL/LED), 600W (Incandescent/Halogen)	25L186	—	—	—	—
	Multilocation	Not Included	120VAC	150W (CFL/LED), 600W (Incandescent/Halogen)	—	25L187	25L188	—	—
Skylark Contour® C•L									
Rocker	1-Pole, 3-Way	Not Included	120VAC	150W (CFL/LED), 600W (Incandescent/Halogen)	10P919	10P920	10P921	—	—
Incandescent/Halogen									
Ariadni®									
Toggle	1-Pole	Not Included	120VAC	600W	4LX85	4LX84	—	—	—
	1-Pole	Not Included	120VAC	1000W	4LX83	4LX82	—	—	—
	1-Pole, 3-Way	Not Included	120VAC	1A	4YPG7	4YPG6	—	—	—
	3-Way	Not Included	120VAC	600W	4LX87	4LX86	—	—	—
	3-Way	Not Included	120VAC	1000W	4LX81	4LX80	—	—	—
Diva®									
Paddle	1-Pole	Not Included	120VAC	600W	5PWL3	5PWL4	—	—	—
	3-Way	Not Included	120VAC	600W	5PWL5	5PWL6	—	—	—
	3-Way	Not Included	120VAC	1000W	5PWL7	5PWL8	—	—	—
	1-Pole, 3-Way	Not Included	120VAC	1A	4YPG9	4YPG8	—	—	—
Maestro®									
Rocker	Multilocation	Not Included	120VAC	600W	4LZ39	4LZ38	—	—	—
Nova									
Slide	1-Pole, 3-Way	Included	120VAC	2000W	4LZ55	—	—	—	—
Skylark®									
Rocker	1-Pole	Not Included	120VAC	600W	4LZ78	4LZ77	—	—	—
	1-Pole	Not Included	120VAC	600W	4V260	3A161	—	—	—
	1-Pole	Not Included	120VAC	1000W	4LZ76	4LZ75	—	—	—
	1-Pole, 3-Way	Not Included	120VAC	600W	4YPH6	4YPH5	—	—	—
	3-Way	Not Included	120VAC	600W	4V261	3A162	—	—	—
	3-Way	Not Included	120VAC	1000W	4LZ74	—	—	—	—
Skylark Contour™									
Rocker	1-Pole	Not Included	120VAC	600W	13M189	13M190	13M191	—	—
	1-Pole, 3-Way	Not Included	120VAC	1000W	13M192	13M193	13M194	—	—
Electronic Low Voltage									
Diva®									
Paddle	1-Pole	Not Included	120VAC	300W	5PWL9	—	—	—	—
Skylark Contour™									
Rocker	1-Pole, 3-Way	Not Included	120VAC	300W	13M195	13M196	13M197	—	—
Magnetic Low Voltage									
Diva®									
Paddle	1-Pole	Not Included	120VAC	600VA(450W)	5PWN0	—	—	—	—

LUTRON

Fluorescent/CFL/ LED Dimmers

- Built-in surge protection
- Electrostatic discharge protection and radio interference suppression circuitry
- C•L Dimmers are for use with fluorescent, LED, and CFL lamps

Linear switches feature voltage compensation to ensure consistent lighting control. Faceplate included.


Ariadni®


Diva®


Nova T®


Skylark®

Switch Type	Max. Cap.	Voltage	Control Method	Lamp Type	Mfr. Model	WHITE Item No.	IVORY Item No.	ALMOND Item No.	BLACK Item No.	BROWN Item No.	GRAY Item No.	LIGHT ALMOND Item No.
Ariadni®												
1-Pole, 3-Way	1000W,6A	277VAC	3-Wire	Fluorescent	AYF-103P	**5PWJ6**	**5PWJ5**	—	—	—	—	—
	1000W,8A	120VAC	3-Wire		AYF-103P	**5PWJ8**	**5PWJ7**	—	—	—	—	—
Diva®												
1-Pole, 3-Way	6A	277VAC	3-Wire	(3) Wire Fluorescents, LED	DVF-103P	**5PWL0**	**5PWK9**	—	—	—	—	—
	8A	120VAC	3-Wire		DVF-103P	**5PWL2**	**5PWL1**	—	—	—	—	—
	8A Load Switching or 50mA 0-10V Sink Limited	120 to 277V	8A Switching w/ 0-10V control	Electronic Ballasts, LED Drivers	DVSTV	**36WH29** *	**36WH27** *	**36WH23** *	**36WH24**	**36WH25**	**36WH26**	**36WH28**
Nova T®												
1-Pole	8A	277VAC	2-Wire (+Hot & Neutral)	Fluorescent	NF-10	**4LZ60**	—	—	—	—	—	—
	8A	277VAC	2-Wire (+Hot & Neutral)	Fluorescent with Magnetic Ballast	NF-20	**4LZ62**	—	—	—	—	—	—
	8A	0 to 10VDC	8A Switching w/ 0-10V control	Electronic Ballasts, LED Drivers	NTSTV-DV	**19YP95** *	—	—	—	—	—	—
	16A	120VAC	2-Wire (+Hot & Neutral)	Fluorescent with Magnetic Ballast	NF-20	**4LZ63**	—	—	—	—	—	—
	16A	120VAC	2-Wire (+Hot & Neutral)	Fluorescent	NF-10	**4LZ61**	—	—	—	—	—	—
Skylark®												
3-Way	6A	277VAC	3-Wire	(3) Wire Fluorescents, Hi-Lume® LED Drivers	SF-12P	**19YP96**	**19YP97**	—	—	—	—	—
	8A	120VAC	3-Wire		SF-103P	**5PWK0**	**5PWJ9**	—	—	—	—	—
Skylark C-L®												
1-Pole, 3-Way	600W (Incandescent/ Halogen), 150W (Dimmable CFL/LED)	120VAC	2-Wire	CFL, LED, Halogen, Incandescent	SCL-153P	**19YP98**	**19YP99**	**19YR01**	—	—	—	—

**** No interface needed.***

LUTRON

VIDEO AVAILABLE ON GRAINGER.COM®

Wall Switch Occupancy and Vacancy Sensors

- Field of vision: 180°
- Coverage: 900 sq. ft.
- Time delay: adjustable
- Timer range: 1/5/15/30 min.
- High-low sensitivity adjustment

Passive infrared sensors detect body heat to determine when the space is occupied. Work with standard 3-way switches or up to 9 companion switches. Occupancy versions can be set to auto-on/auto-off or manual-on/ auto-off. Vacancy versions meet CA Title 24 requirements.

NOS. 36N228 TO 36N231

No neutral wire required (ground connection required for functionality). Occupancy sensor loads: incandescent, halogen, MLV, CFL, LED, magnetic fluorescent, and electronic fluorescent.

NOS. 32JA42 AND 32JA43

Switches all lighting loads. Meets many Title 20/24, ASHRAE 90.1, and IECC code requirements.

NOS. 36WH09 TO 36WH22

Sensors can control up to 25 ballasts or drivers. UL Listed. Comply with Title 20 and Title 24 Section 110.9.


No. 36N229


No. 22LU20


No. 36WH13

Max. Capacity @ 120VAC	Voltage	Use With	Mfr. Model	WHITE Item No.	IVORY Item No.	ALMOND Item No.	BLACK Item No.	BROWN Item No.	GRAY Item No.	LIGHT ALMOND Item No.
Passive Infrared Vacancy Sensor										
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-VPS6M2-DV	**36N230**	**36N231**	—	—	—	—	—
150W (CFL, LED), 600W (Halogen, Incandescent)	120 to 277VAC	—	MSCL-VP153M	**22LU22**	**22LU23**	—	—	—	—	—
Passive Infrared Occupancy Sensor										
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-OPS6M2-DV	**36N228**	**36N229**	—	—	—	—	—
150W (CFL, LED), 600W (Halogen, Incandescent)	120VAC	—	MSCL-OP153M	**22LU20**	**22LU21**	—	—	—	—	—
Passive Infrared/Ultrasonic Occupancy Sensor										
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-B102	**32JA42**	**32JA43**	—	—	—	—	—
For Use With 8A Electronic Fluorescent Ballast or LED Drivers—Passive Infrared Motion Sensor 0 to 10VDC Dimming Ballasts										
4.4A (Fan Motor), 8A (Fluorescent, LED)	120 to 277VAC	0 to 10VDC Dimming Ballasts	MS-Z101	—	**36WH13**	**36WH09**	**36WH10**	**36WH11**	**36WH12**	**36WH14**
For Use With 8A Electronic Fluorescent Ballast or LED Drivers—Passive Infrared Dimming Vacancy Sensor 0 to 10VDC Dimming Ballasts										
4.4A (Fan Motor), 8A (Fluorescent, LED)	120 to 277VAC	0 to 10VDC Dimming Ballasts	MS-Z101	**36WH15**	—	—	—	—	—	—
	120 to 277VAC	0 to 10VDC Dimming Ballasts	MS-Z101-V	**36WH22**	**36WH20**	**36WH16**	**36WH17**	**36WH18**	**36WH19**	**36WH21**
2A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120VAC	—	MS-OPS2	**25L178**	**25L179**	—	—	—	—	—
	120VAC	—	MS-VPS2	**25L180**	**25L181**	—	—	—	—	—
3.0A (Fan Motor), 5A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120VAC	—	MS-OPS5M	**25L182**	**25L183**	—	—	—	—	—
	120VAC	—	MS-VPS5M	**25L184**	**25L185**	—	—	—	—	—
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-B202	**36WH01**	—	—	—	—	—	—
	120 to 277VAC	—	MS-A102	**36WH02**	**36WH03**	—	—	—	—	—
	120 to 277VAC	—	MS-A202	**36WH04**	—	—	—	—	—	—



No. 16A719



No. 20VE45



No. 20VE49



No. 20VE43

AcuityControls. Sensor Switch.

Wall Switch Occupancy Sensors

- 120/277VAC
- Motor Load ¼ HP Rating
- 180° viewing angle
- Timer range: 30 sec. to 30 min.
- No neutral required

Passive infrared and passive dual-technology occupancy sensors automatically turn lights On and Off as people enter and leave a room. By reducing the amount of time the lights are on, sensors cut energy consumption and significantly reduce energy costs. Sensors have an integrated photocell that can keep lights off if there is sufficient daylight in the room. Designed with a patent-pending wiring method that enables sensors to function with or without a neutral connection.

PASSIVE INFRARED (PIR)

Sensors detect body heat in motion. They must be located where full line-of-sight is possible.

DUAL TECHNOLOGY SENSORS (PIR AND MICROPHONICS™)

Feature an embedded microphone that hears sounds indicating occupancy in rooms with obstructions, such as bathroom stalls or office cubical areas.

Coverage	Description	Watts @ 120V	Watts @ 277V	Mfr. Model	WHITE Item No.	IVORY Item No.
Passive Infrared Occupancy Sensor with Nightlight						
2025 sq. ft.	Auto On (Default) or Manual On, Night Light	800	1200	WSX NL	**16A719**	**16A718**
Passive Infrared Occupancy Sensor						
2000 sq. ft.	Dual Relay	800	1200	WSX 2P	**20VE45**	—
	Night Light, Dual Relay	800	1200	WSX 2P NL	**20VE49**	—
	Auto On (Default) or Manual On	800	1200	WSX	**20VE43**	—
Dual Technology PIR/Microphonic Occupancy Sensor						
2000 sq. ft.	Auto On (Default) or Manual On	800	1200	WSX PDT	**20VE44**	—
	Dual Relay	800	1200	WSX PDT 2P	**20VE46**	—
	Auto On (Default) or Manual On, Night Light	800	1200	WSX PDT NL	**20VE48**	—
	Night Light, Dual Relay	800	1200	WSX PDT 2P NL	**20VE50**	—



No. 36DZ81



No. 23NY61

HUBBELL® Wiring Device-Kellems

Wall Switch Occupancy and Vacancy Sensors

- Field of vision: 180°
- Rated for use with incandescent, fluorescent and LED lighting
- No neutral required, except where noted

These sensors meet the latest codes and standards, and also provide LEED® points in Sustainable Sites, Energy and Atmosphere, Indoor Environmental Quality and Innovative Design Process categories.

Sensors with adaptive technology constantly monitor the controlled area and automatically adjusts the sensitivity and time delay. This means that instead of manually adjusting the sensor for seasonal changes, occupancy pattern changes, etc., the sensor automatically adjusts itself.

DUAL TECHNOLOGY

Combine both (PIR/US) technologies, minimizing the risk of false triggering. Neutral required for Nos. 36DZ89 and 36DZ90.

PASSIVE INFRARED

Detects body heat and movement. Requires line of sight for optimal operation.

ULTRASONIC TECHNOLOGY

Detects movement by bouncing sound waves off objects. No line of sight is required.

Coverage	Voltage	Watts @ 120V	Watts @ 277V	Time Delay	Timer Range	Description/ Special Features	Mfr. Model	IVORY Item No.	WHITE Item No.	GRAY Item No.
Dual Technology Motion Sensor										
1000 sq. ft.	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay	AD2000	**36DZ80**	**36DZ81**	**36DZ82**
	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay, No Button	AD2000N	**36DZ89**	**36DZ90**	—
Passive Infrared Motion Sensor										
1000 sq. ft.	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay	AP2000	**36DZ91**	**36DZ92**	—
1200 sq. ft.	120/277VAC	1000	1800	Manual	20 sec. to 30 min.	Selectable Manual/Auto-On Operation, 3-Way Capable, Tamper Resistant Lens	WS2000	**23NY60**	**23NY61**	**29RX22**
Passive Infrared Motion Sensor with Nightlight										
1200 sq. ft.	120/277VAC	1000	1800	Manual	20 sec. to 30 min.	Selectable Manual/Auto-On Operation, 3-Way Capable, Tamper Resistant Lens	WS2000N	**29RX24**	**29RX25**	**29RX23**
Passive Infrared Occupancy Sensor										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Auto-On Operation, Tamper Resistant Lens	WS1000	**23NY52**	**23NY53**	—
Passive Infrared Occupancy Sensor with Nightlight										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Auto-On Operation, Tamper Resistant Lens	WS1000N	**23NY57**	**23NY59**	—
Passive Infrared Vacancy Sensor										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Manual-On Operation, Tamper Resistant Lens	WS1001	**23NY55**	**23NY56**	—
Passive Infrared Vacancy Sensor with Nightlight										
1200 sq. ft.	120VAC	500	—	Manual	20 sec. to 30 min.	Manual-On Operation, Tamper Resistant Lens	WS1001N	**23NY54**	**29RX21**	—
Ultrasonic Motion Sensor										
400 sq. ft.	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay	AU2000	**36DZ77**	**36DZ78**	**36DZ79**

HUBBELL® Wiring Device-Kellems

Ceiling- and Wall-Mount Occupancy Sensors

- Timer Range: 8 min. to 40 min.

Adaptive Technology constantly monitors the controlled area and automatically adjusts to accommodate seasonal changes, occupancy pattern changes, etc., and minimize manual programming. Provide LEED® points. Office white color.

Control Units—Can be used with up to 4 low voltage devices, except No. 29RW74 can control up to 6 devices.



No. 1ND62



No. 29RW75

Installation Type	Coverage	Voltage	Viewing Angle	Time Delay	Timer Range	STANDARD UNIT Mfr. Model	STANDARD UNIT Item No.	WITH PHOTOCELL Mfr. Model	WITH PHOTOCELL Item No.
Passive Infrared/Ultrasonic, Occupancy Sensor									
Ceiling	1500 sq. ft.	120/277VAC	360°	Adaptive	4 to 30 min.	ATP1500CL	**29RW66**	—	—
	2000 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATD2000C	**1ND52**	ATD2000CRP	**1ND53**
	2000 sq. ft.	120/277VAC	180°	Adaptive	4 to 30 min.	ATD2000CL	**29RW65**	—	—
Wall	1600 sq. ft.	24VDC	115°	Adaptive/Manual	8 to 40 min.	—	—	ATD1600WRP	**1ND51**
Passive Infrared Occupancy Sensor									
Ceiling	1500 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATP1500C	**1ND56**	ATP1500CRP	**1ND57**
Wall	1600 sq. ft.	24VDC	115°	Adaptive/Manual	8 to 40 min.	—	—	ATP1600WRP	**1ND58**
Ultrasonic Occupancy Sensor									
Ceiling	2000 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATU2000C	**1ND62**	ATU2000CRP	**1ND63**
	2000 sq. ft.	120/277VAC	360°	Adaptive	4 to 30 min.	ATU2000CL	**29RW73**	—	—

Item	Description/ Special Features	For Use With	Voltage	Mfr. Model	Item No.
Required Control Units for Low Voltage Sensors and Accessories					
Control Unit	Auto-ON/Auto OFF	24VDC Ceiling and Wall Mtd Occ Sensors, DSM Series SW	120 to 277VAC	CU300A	**2YCJ4**
	Manual-ON/Auto-OFF		120 to 277VAC	CU300M	**29RW75**
Required Control Unit for Low Voltage Sensors					
Control Unit	Selectable Auto-ON/Auto OFF/ Manual ON-Auto OFF	24VDC Ceiling and Wall Mtd Occ Sensors, DSM Series SW	120 to 277VAC	CU300HD	**29RW74**
Accessories					
Daylight Sensor	Control for Up to (50) Ballasts	0 to 10VDC Dimming Ballasts	0 to 10VDC	DHTD	**29RW77**
Low Voltage Wall Switch	Low Voltage, Manual-On Vacancy Operation, Specification Grade, Decorator Style, Momentary Push Button	Mfr. No. CU300M, CU300HD	—	DSM30W1	**29RW78**
Auxiliary Relay	Desired to Switch More than One Circuit when Occupancy is Sensed	Mfr. No. CU300A, CU300M, CU300HD	24VDC	AAR	**1ND47**

Ceiling Mount Occupancy Sensors

AcuityControls. Sensor Switch.

Reversible line/load wiring simplifies installation. Great for offices, classrooms, restrooms, closets, and many other spaces.

POWER PACKS

Powers remote low voltage sensors. Integrated relay switches the lighting load On and Off.

Description	Voltage	Coverage	Watts @ 120V	Watts @ 277V	Mfr. Model	Item No.
Occupancy Sensor, Passive Infrared						
Line Voltage, Small Motion Detection	120/277VAC	500 sq. ft.	800	1200	CMR 9	**6DXE4**
Line Voltage, Large Motion Detection	120/277VAC	2500 sq. ft.	800	1200	CMR 10	**6DXE2**
Low Voltage, High Mount, Requires Power Pack	12/24VDC	2800 sq. ft.	—	—	CM 6	**6DXD8**
Power and Relay Packs						
20A Relay	Input 120/277VAC, Output 15 to 24 VDC				PP20	**6DXG8**



No. 6DXD8



No. 6DXG8

HUBBELL® Wiring Device-Kellems

Indoor and Outdoor High Bay Occupancy Sensors

Provide advanced and accurate passive infrared (PIR) technology for unequaled occupancy detection and false trip immunity. Low bay replacement lenses are available for 8- to 16-ft. mounting heights.

No. 36DZ95



No. 29RW98



Coverage	Voltage	Installation Type	Timer Range	Description/ Special Features	Operating Temp. Range	Mfr. Model	Item No.
Indoor Use							
500 sq. ft. @ 30 ft. Mounting Height	24VDC	Fixture Mount	4 to 90 min.	—	32° to 149°F	HMHB2LV9	**36EA02**
	120 to 347VAC	Fixture Mount	4 to 90 min.	(1) Relay	32° to 149°F	HMHB219	**36DZ95**
	120 to 347VAC	Fixture Mount	4 to 90 min.	(2) Relays	32° to 149°F	HMHB229	**36DZ97**
Outdoor Use							
5500 sq. ft. @ 30 ft. Mounting Height	120 to 347VAC	Fixture Mount	4/8/16/30 min.	(1) Relay	-40° to 149°F	HBSXT13	**29RW98**
Required Control Unit for Low Voltage Sensors							
120 to 277VAC Input						CU300HD	**29RW74**



No. 20VE57

AcuityControls. Sensor Switch.

Fixture-Mount Sensors

- 120/277V
- 800W at 120V
- 1200W at 277V
- Timer range: 30 sec. to 30 min.

Designed for commercial and industrial lighting control applications, these sensors utilize passive infrared detection and feature interchangeable lenses for multiple mounting height and coverage pattern requirements.

Description	Coverage	Includes	Mfr. Model	Item No.
High Mount and Low Mount Sensor	2000 sq. ft.	(2) Interchangeable Lenses	LSXR 610	**20VE57**
High Mount and High Mount Aisleway Sensor	40 ft.	(2) Interchangeable Lenses	LSXR 650	**20VE58**



No. 38A935

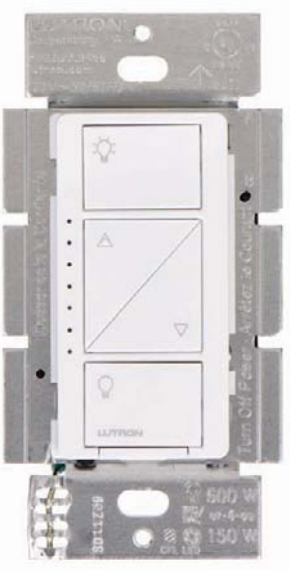
AcuityControls. Sensor Switch.

Outdoor Motion Sensors

These passive infrared (PIR) sensors provide both motion and daylight control of dimmable outdoor or wet-location fixtures. 120/277VAC. Mounts via ½" knockout (⅞" hole) in fixture or pole. UL listed, RoHS compliant, IP66.

Description	Viewing Angle	Mfr. Model	Item No.
Low Mount, Turns Off Fixture When No Motion	360°	SBOR 10 ODP WH 0V	**38A933**
Low Mount, Dims Fixture to 40% When No Motion	360°	SBOR 10 ODP WH 4V	**38A934**
High Mount, Turns Off Fixture When No Motion	360°	SBOR 6 ODP WH 0V	**38A935**
High Mount, Dims Fixture to 40% When No Motion	360°	SBOR 6 ODP WH 4V	**38A936**

Voltage	Color	L	W	Mfr. Model	Item No.
LED Photocontrol Button					
120 to 277VAC	Green	3¼"	3¼"	DLL127 1.5 U	**20VE59**
480VAC	Yellow	3¼"	3¼"	DLL480 1.5 CUL JU	**20VE60**



No. 32JA44

Wireless Controls

LUTRON

Can be installed in any application for increased energy savings. Feature Clear Connect™ RF technology for reliable communication. Compatible with wireless Lutron® sensors, this page.

Description	Voltage	Amps	WHITE Item No.	IVORY Item No.
Caseta				
Wireless Lighting Dimmer, CFL, LED, Halogen, Incandescent, 6 Button	120VAC	—	**32JA44**	**32JA45**
Maestro				
Wireless Lighting Dimmer, Incandescent and Magnetic Low-Voltage, Tap with Rocker Digital Fade	120VAC	8	**4YPE1**	**4YPD9**
Wireless Lighting Dimmer, Incandescent, Tap with Rocker Digital Fade	120VAC	5	**25L189**	**25L190**
Wireless Lighting Dimmer, Fluorescent, Tap with Rocker Digital Fade	120-277VAC	6	**5PWT2**	—
Companion Switch, Multi-Location	120VAC	8	**5PWN5**	**5PWN6**
Wireless Wall Switch, Touch Switch	—	5	**32JA28**	**32JA29**
Wireless Plug In Dimming Module, 300W	120VAC	2.5	**5PWR7**	—
Wireless Plug in Appliance Module, 15A	120VAC	15	**5PWR9**	—
Lighting Dimmer, CFL, LED, Halogen, Incandescent, Wall Plug-In	120VAC	—	**32JA46**	—
Pico™				
Wireless Remote Control, 2 Button with Raise/Lower	—	—	**32JA32**	**32JA33**
Wireless Remote Control, 3 Button with Raise/Lower	—	—	**32JA30**	**32JA31**
Wireless Remote Control, 2 Button	—	—	**32JA36**	**32JA37**
Wireless Remote Control, 3 Button	—	—	**32JA34**	**32JA35**
Wireless Control with Nightlight, 2 Button	—	—	**32JA40**	**32JA41**
Wireless Control with Nightlight, 3 Button	—	—	**32JA38**	**32JA39**
Wallbox Adaptor	—	—	**32JA47**	—

Description	Item No.
Accessories	
Pico	
Car Clip	**32JA48**
Pedestal, Single	**32JA49**
Pedestal, Double	**32JA50**
Caseta	
Smartbridge. Control of Caseta™ Devices and Lutron® Shades From A Smartphone or Tablet	**36WH05**

LED Drivers for Fixture Arrays

These LED drivers protect fixtures that use LED arrays from power supply fluctuations, which can reduce light output quality. They convert high-voltage AC into low-voltage DC to power the arrays. Drivers and bulbs must be the same brand for proper operation.

LUTRON. PHILIPS ADVANCE GE current a Daintree company


No. 30YH72


No. 36X539


No. 38AY05

Input Voltage	Output Voltage	Output Current	Power Output	Dimming	Power Factor	Mfr. Model	Item No.
Adjustable Output Current LED Drivers							
Lutron Hi-lume 1% EcoSystem							
120 to 277V AC	12V DC	3.30ADC	5 to 40W	Yes	0.95/0.99	L3DA4U1UKL-AV120	**38AY07**
	24V DC	1.60ADC	5 to 40W	Yes	0.95/0.99	L3DA4U1UKL-CV240	**38AY08**
Constant Current LED Drivers							
Advance Xitanium							
120 to 277V AC	27 to 54V DC	0.10 to 1.50ADC	54W	Yes	Greater Than 0.95	XI054C150V054DNT1M	**30YH77**
	27 to 54V DC	0.70 to 2.0ADC	75W	Yes	Greater Than 0.9	XI075C200V054XPT1M	**30YH78**
	12-24V DC	4.1ADC	100W	Yes	0.95	XI100C410V024FNS1M	**55XD32**
	44 to 140V DC	1.05ADC	150W	Yes	Greater Than 0.95	XI150C105V140CNF1	**36UX14**
347 to 480V AC	12 to 24V DC	1.0 to 2.0ADC	48W	Yes	Greater Than 0.9	LEDINTA2000C24DO	**30YH76**
	120 to 425V DC	0.35ADC	150W	Yes	0.9	LEDHCNA0350C425DN	**30YH72**
	120 to 280V DC	0.53ADC	150W	Yes	Greater Than 0.95	XH150C053V280CNF1	**36UX15**
	60 to 210V DC	0.70ADC	150W	Yes	Greater Than 0.95	XH150C070V210CNF1	**36UX16**
GE Current Lightech™							
120 to 277V AC	2 to 20V DC	0.35ADC	6W	No	0.5	GELD6DMV350SL	**34J737**
	4 to 52V DC	0.35ADC	18W	Yes	0.85	GELD18DMV350PU	**34J740**
Lutron Hi-lume 1% EcoSystem							
120 to 277V AC	15V to 38V DC	0.20 to 0.70ADC	3 to 26.6W	Yes	Greater Than 0.9	L3DA4U1UKS-HA070	**60AT12**
	15V to 38V DC	0.20 to 0.70ADC	3 to 26.6W	Yes	Greater Than 0.9	L3DA4U1UKS-HC070	**60AT13**
	30V to 54V DC	0.20 to 0.50ADC	6 to 27W	Yes	Greater Than 0.9	L3DA4U1UKS-EA035	**60AT09**
	30V to 54V DC	0.20 to 0.50ADC	6 to 27W	Yes	Greater Than 0.9	L3DA4U1UKS-EA050	**60AT10**
	30V to 54V DC	0.51 to 1.0ADC	15 to 40W	Yes	Greater Than 0.9	L3DA4U1UKS-FA070	**60AT11**
	30V to 54V DC	0.51 to 1.0ADC	15 to 40W	Yes	Greater Than 0.9	L3DA4U1UMN-FA070	**60AT14**
Constant Voltage LED Drivers							
Advance Xitanium							
120 to 277V AC	12V DC	0.10 to 5.0ADC	60W	No	0.99	LEDINTA0012V50FO	**4HGK9**
120V AC	12V DC	0.80 to 5.0ADC	60W	No	Greater Than 0.95	LED120A0012V50F	**4HGK8**
	24V DC	0.80 to 3.30ADC	80W	No	Greater Than 0.95	LED120A0024V33F	**4HGL1**
GE Current Lightech™							
120 to 277V AC	12V DC	2.0ADC	25W	Yes	0.96	GELD25DMV12TB	**34J741**
	24V DC	2.50ADC	60W	Yes	0.98	GELD60DMV24PU	**34J743**
GE Current Lumination®							
90 to 305V AC	11.4 to 12.6V DC	0.5 to 5ADC	60W	Yes	0.99	GE060/MV/D12T1-A	**36X539**
	23 to 25.5V DC	3.3 ADC	80W	Yes	0.99	GE080/MV/D24T1-A	**26JT35**
	24V DC	3.8 ADC	180W	No	0.99	GE180/MV/V24T1-C	**26JT34**
Lutron Hi-lume 1% A Series							
120V AC	12V DC	0.21 to 1.95ADC	5 to 40W	Yes	0.99	LTEA4U1UKL-AV120	**38AY05**
	24V DC	0.21 to 1.95ADC	5 to 40W	Yes	0.99	LTEA4U1UKL-CV240	**38AY06**
Programmable LED Drivers							
Advance Xitanium							
120 to 277V AC	20 to 56V DC	0.20 to 0.70ADC	39W	Yes	Greater Than 0.9	913701213402	**46N415**
	120 to 425V DC	0.35ADC	150W	Yes	0.9	LEDINTA0350C425DO	**46N411**
	120 to 280V DC	0.53ADC	150W	Yes	0.9	LEDINTA0530C280DO	**46N412**
	60 to 210V DC	0.70ADC	150W	Yes	0.9	LEDINTA0700C210DO	**46N413**
	120 to 425V DC	0.35ADC	150W	No	0.9	LEDINTA0350C425FO	**4HGL7**
	60 to 210V DC	0.70ADC	150W	No	0.9	LEDINTA0700C210FO	**4HGL8**
120V AC	2.8 to 28V DC	0.35ADC	10W	No	Greater Than 0.9	LED120A0350C28FO	**4HGL4**
	2.8 to 32.6V DC	0.35ADC	12W	No	0.9	LED120A0350C33F	**4HGL3**
	2.8 to 24.6V DC	0.70ADC	17W	No	0.9	LED120A0700C24F	**4HGL5**
	2.8 to 24V DC	0.70ADC	17W	No	0.9	LED120A0700C24FO	**4HGL6**

LED Drivers for Type C Light Bulbs

GE current a Daintree company PHILIPS ADVANCE

LED drivers for Type C light bulbs are used to retrofit fluorescent lighting fixtures so they can be used with UL Type C LED linear light bulbs, which are more energy efficient than fluorescent bulbs. The drivers allow facilities to convert their fluorescent lighting fixtures to LED technology without the expense of replacing the fixtures entirely. They protect UL Type C LED light bulbs from damaging fluctuations in the power supply that can reduce the quality of their light output, and they power the bulbs by converting high-voltage alternating current (AC) into low-voltage direct current (DC).


No. 31LA57


No. 45MX70

Number of Bulbs Supported	Input Voltage	Output Voltage	Output Current	Power Output	Dimming	Power Factor	Mfr. Model	Item No.
GE Current								
Lightech™								
1	120 to 277V AC	26 to 34V DC	0.62ADC	21W	No	Greater Than 0.9	LED21T8/DR/1L	**31LA57**
2	120 to 277V AC	26 to 34V DC	0.54ADC	18W	No	Greater Than 0.9	LED9T8//DR/UN/2L	**55DM99**
2	120 to 277V AC	26 to 34V DC	0.88ADC	30W	No	Greater Than 0.9	LED15T8/DR/UN/2L	**55DM97**
2	120 to 277V AC	26 to 34V DC	1.06ADC	36W	No	Greater Than 0.9	LED18T8/DR/UN/2L	**40CP65**
2	120 to 277V AC	26 to 34V DC	1.24ADC	42W	No	Greater Than 0.9	LED21T8/DR/2L	**31LA58**
2	120 to 277V AC	26 to 34V DC	1.24ADC	42W	Yes	Greater Than 0.9	LED21T8/DR/D/2L	**39CC84**
2	120 to 277V AC	29V DC	0.72ADC	72W	No	0.9	LED25T8/DR/2L	**39UT29**
4	120 to 277V AC	26 to 34V DC	1.76ADC	60W	Yes	Greater Than 0.9	LED15T8/DR/D4L	**55DM96**
4	120 to 277V AC	26 to 34V DC	2.48ADC	84W	Yes	Greater Than 0.9	LED21T8/DR/D/4L	**39CC85**
4	120 to 277V AC	26 to 34V DC	4.24ADC	144W	Yes	Greater Than 0.9	LED36T/DR/D4L	**55GU66**
LumenChoice™								
2	120 to 277V AC	26 to 34V DC	0.48ADC	33W	Yes	Greater Than 0.9	LED/DR/D2L/LW	**55GU67**
2	120 to 277V AC	26 to 34V DC	0.72ADC	50W	Yes	Greater Than 0.9	LED/DR/D2L/HW	**55GU69**
4	120 to 277V AC	26 to 34V DC	0.48ADC	66W	Yes	Greater Than 0.9	LED/DR/D4L/LW	**55GU68**
4	120 to 277V AC	26 to 34V DC	0.62ADC	100W	Yes	Greater Than 0.9	LED/DR/D4L/HW	**55GU70**
Advance								
Centium								
2	120 to 277V AC	350V DC	0.25AAC	9 to 34W	No	0.81 to 0.98	ICN-2P16-TLED-N	**45MX70**
2	120 to 277V AC	350V DC	0.20AAC	32W	Yes	0.99	IZT2P16TLEDSC35I	**404K51**
4	120 to 277V AC	550V DC	0.25AAC	9 to 34W	No	0.92 to 0.99	ICN-4P16-TLED-N	**45MX71**
4	120 to 277V AC	550V DC	0.25AAC	62W	Yes	0.99	IZT4P16TLEDSC35I	**404K52**
Xitanium								
—	120 to 277V AC	215V DC	0.34ADC	28W	No	0.9	913701269202	**55EY04**
—	120 to 277V AC	215V DC	0.51ADC	43W	No	0.9	913701269302	**55EY05**
—	120 to 277V AC	215V DC	0.68ADC	54W	No	0.9	913701269402	**55EY06**


No. 6ZET0

LUTRON

Proprietary Continuous Dimming Fluorescent Ballasts

- Programmed Rapid-Start Ballast Start Type

Proprietary continuous dimming ballasts are only compatible with continuous dimming controls from the same manufacturer and series. The ballasts and dimming controls interface precisely with each other, which makes them more reliable than other types of ballasts and dimming controls. These ballasts allow a light fixture's light output to be adjusted from 100% light output all the way down to the ballasts' lowest light output setting. They are most often used in fluorescent fixtures in lighting system retrofits or new construction lighting installations for large facilities.

Input Voltage	Number of Bulbs Supported	Max. Bulb Watts	Ballast Factor	Mfr. Model	Item No.
Lutron EcoSystem®					
T4 Bulb Type					
120/220/240/277VAC	1	18W	0.95	EC3DT418KU1S	**6ZET4**
	1	32W	0.95	EC3DT4MWKU1S	**6ZET6**
	1	32W	0.95	EC3DT4MWKU1	**60AR98**
	1	42W	0.95	EC3DT442KU1S	**6FVY0**
	2	18W	0.95	EC3DT418KU2S	**6ZET5**
	2	32W	0.95	EC3DT4MWKU2	**60AR99**
	2	32W	0.95	EC3DT4MWKU2S	**6FVX9**
T5 Bulb Type					
120/240/277VAC	1	28W	1	EC5T528JUNV1	**60AT01**
	2	28W	1	EC5T528JUNV2	**60AT02**
T5HO Bulb Type					
120/240/277VAC	1	54W	1	EC5T554JUNV1	**60AT03**
	2	54W	1	EC5T554JUNV2	**60AT04**
T8 Bulb Type					
120/240/277VAC	2	32W	0.85	EC5T832GUNV2	**60AT05**
	2	32W	0.85	EC5T832GUNV2L	**60AT06**
	2	32W	0.85	EC5T832JUNV2	**60AT08**
	3	32W	0.85	EC5T832GUNV3L	**60AT07**
Lutron EcoSystem® H-Series					
T5 Bulb Type					
120/240/277VAC	2	21W	1	EHDT521MU210	**18C868**
120/277VAC	1	14W	1	EHDT514MU110	**18C869**
	1	21W	1	EHDT521MU110	**18C867**
	1	28W	1	EHDT528MU110	**18C863**
	2	28W	1	EHDT528MU210	**18C864**
120 to 277VAC	2	14W	1	EHDT514MU210	**18C870**
T5HO Bulb Type					
120/240/277VAC	1	24W	1	EHDT524MU110	**18C865**
	1	39W	1	EHDT539MU110	**18C861**
	1	54W	1	EHDT554MU110	**18C859**
	2	24W	1	EHDT524MU210	**18C866**
	2	54W	1	EHDT554MU210	**18C860**
120/277VAC	2	39W	1	EHDT539MU210	**18C862**
T8 Bulb Type					
120/240/277VAC	2	17W	1	EHDT817MU210	**18C858**
	2	25W	1	EHDT825MU210	**18C856**
	2	32W	1.17	EHDT832MU217	**18C852**
	3	32W	1	EHDT832GU310	**18C853**
	3	32W	1.17	EHDT832GU317	**18C854**
120/277VAC	1	17W	1	EHDT817MU110	**18C857**
	1	25W	1	EHDT825MU110	**18C855**
120 to 277VAC	1	32W	1	EHDT832MU110	**18C849**
	1	32W	1.17	EHDT832MU117	**18C851**
	2	32W	1	EHDT832MU210	**18C850**

Input Voltage	Number of Bulbs Supported	Max. Bulb Watts	Ballast Factor	Mfr. Model	Item No.
Lutron Hi Lume® 3D					
T5 Bulb Type					
120/240/277VAC	1	14W	1	H3DT514CU110	**4LFW6**
	1	21W	1	H3DT521CU110	**4LFW8**
	1	28W	1	H3DT528CU110	**4LFW4**
	1	36W	1	H3DT536GU110	**6ZER8**
	1	40W	1	H3DT540GU110	**6ZET0**
	1	50W	1	H3DT550GU110	**6ZET2**
	2	14W	1	H3DT514CU210	**4LFW7**
	2	21W	1	H3DT521CU210	**4LFW9**
	2	28W	1	H3DT528CU210	**4LFW5**
	2	36W	1	H3DT536GU210	**6ZER9**
	2	40W	1	H3DT540GU210	**6ZET1**
	2	50W	1	H3DT550GU210	**6ZET3**
	3	40W	1	H3DT540GU310	**6ZET9**
T5HO Bulb Type					
120/240/277VAC	1	24W	1	H3DT524CU110	**6ZER2**
	1	39W	1	H3DT539CU110	**6ZER4**
	1	54W	1	H3DT554CU110	**6ZER6**
	2	24W	1	H3DT524CU210	**6ZER3**
	2	39W	1	H3DT539CU210	**6ZER5**
	2	54W	1	H3DT554CU210	**6ZER7**
T8 Bulb Type					
120/240/277VAC	1	17W	1	H3DT817GU110	**18C847**
	1	17W	1	H3DT817CU110	**4LFV6**
	1	17W	1.17	H3DT817CU117	**4LFX6**
	1	25W	1	H3DT825CU110	**4LFV8**
	1	25W	1.17	H3DT825CU117	**4LFX4**
	1	32W	1	H3DT832CU110	**4LFW1**
	1	32W	1.17	H3DT832CU117	**4LFX1**
	1	32W	1	H3DT832GU110	**5NUJ0**
	1	40W	1	H3DT840CU110	**6ZER0**
	2	17W	1	H3DT817GU210	**18C848**
	2	17W	1	H3DT817CU210	**4LFV7**
	2	17W	1.17	H3DT817CU217	**4LFX7**
	2	25W	1	H3DT825CU210	**4LFV9**
	2	25W	1.17	H3DT825CU217	**4LFX5**
	2	32W	1	H3DT832CU210	**4LFW2**
	2	32W	1.17	H3DT832CU217	**4LFX2**
	2	32W	1	H3DT832GU210	**5NUJ1**
	2	40W	1	H3DT840CU210	**6ZER1**
	3	17W	1	H3DT817GU310	**6ZET7**
	3	17W	1.17	H3DT817GU317	**6ZET8**
	3	32W	1	H3DT832GU310	**4LFW3**
	3	32W	1.17	H3DT832GU317	**4LFX3**


No. 34GN61


No. 12V431

GE current, a Daintree company

PHILIPS ADVANCE

0-10V Continuous Dimming Fluorescent Ballasts

These continuous dimming ballasts are compatible with 0-10V continuous dimming controls and use a low-voltage analog control signal to dim a light fixture's light output to any level between 100% light output and the ballasts' lowest light output setting. They are used in fluorescent fixtures in a wide variety of settings, but may not be suitable for lighting systems that require long wire runs to connect the ballasts to the lighting controls.

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast: F25T8	F26DBX	F28T5	F28T8	F32T8	F32T8U	Mfr. Model	Item No.
Programmed/Rapid Ballast Start Type												
GE Current UltraStart®												
120 to 277VAC	114W	0.88	T8	3, 4	3 or 4	—	4	3 or 4	3 or 4	—	GE432MVPS-N-V03	**12V432**
	114W	0.88	T8	3, 4	3 or 4	—	4	3 or 4	3 or 4	—	GE432MVPS-N-V03W	**12V436**
Programmed Ballast Start Type												
Advance Mark 10® Powerline												
120/277VAC	49W	0.05	Compact Fluorescent, T4	1	—	1	—	—	—	—	REZ-1T42-M2-LD-K	**1FYF6**
	58W	0.05	Compact Fluorescent, T4	1, 2	—	1 or 2	—	—	—	—	REZ-2Q26-M2-LD-K	**1FYF5**
Advance Mark 7® 0-10V												
120 to 277VAC	32W	0.05 to 1	T8	1	1	—	—	1	1	1	IZT-132-SC	**5KB39**
	32W	0.05 to 1	T8	2	2	—	0	2	2	2	IZT-2PSP32-SC	**34GN61**
	28W	0.03 to 1	T5	2	—	—	2	—	—	—	IZT-2S28-D	**20JT67**
	32W	0.03 to 1	T8	3	3	—	0	3	3	3	IZT-3PSP32-SC	**34GN62**
GE Current UltraStart®												
120 to 277VAC	87W	0.88	T8	2, 3	2 or 3	—	3	2 or 3	2 or 3	—	GE332MVPS-N-V03	**12V431**
Rapid Ballast Start Type												
GE Current UltraStart®												
120 to 277VAC	58W	0.88	T5, T8	1, 2	1 or 2	—	2	1 or 2	1 or 2	—	GE232MVPS-N-V03	**12V430**

GE current a Daintree company | PHILIPS ADVANCE

2-Phase Step Dimming Fluorescent Ballasts

Two-phase step dimming ballasts are compatible with two-phase step dimming controls and are used in fluorescent fixtures in classrooms, hallways, and other settings that don't require a wide range of dimming. They alter the supply voltage to dim the fixtures' light output to specific levels, for example 100% (full brightness), 50%, and 0% (off).


No. 2LMW6

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast F28T5	F35T5	F17T8	F28T8	F32T8	F32T8U	Mfr. Model	Item No.
Instant Ballast Start Type												
GE Current UltraMax												
120 to 277VAC	221W	1.18	T8	5, 6	—	—	—	5 or 6	5 or 6	6	GE632-MAX-H90-S60	**2TNU6**
Programmed Ballast Start Type												
Advance Optanium												
120 to 277VAC	28W	0.95	T5	1, 2	2	1	2	—	—	—	IOP-2S28-95-SC-SD	**2LMW6**
	28W	1.15	T5	1, 2	1 or 2	1	1 or 2	—	—	—	IOP-2S28-115-SC-SD	**2LMW7**
GE Current UltraStart®												
120 to 277VAC	54W	0.99 to 1.05	T5	4	0	—	0	—	0	0	GE454MVPS90-E-S	**34GN99**

PHILIPS ADVANCE

Line-Voltage Continuous Dimming Fluorescent Ballasts

Line-voltage continuous dimming ballasts are compatible with line-voltage continuous dimming controls. They receive control signals through their power leads, so they don't require any extra wiring to connect them to the lighting controls. The ballasts allow a fixture's light output to be adjusted from 100% light output all the way down to the ballasts' lowest light output setting and are used in fluorescent fixtures in conference rooms, private offices, auditoriums, and other areas where lights will be dimmed infrequently.


No. 1FYF3

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast F17T8	F25T8	F28T8	F32T8	F32T8U	Mfr. Model	Item No.
Programmed Ballast Start Type											
Advance Mark 10® Powerline											
120VAC	32W	0.05 to 1	T8	1	1	1	1	1	1	REZ-132-SC	**1FYF3**
	32W	0.05 to 1	T8	2	2	2	2	2	2	REZ-2S32-SC	**3VK03**
	32W	0.05 to 0.97	T8	2, 3	3	2	3	3	3	REZ-3S32-SC	**3VK04**
277VAC	32W	0.05 to 1	T8	1	1	1	1	1	1	VEZ-132-SC	**1FYF4**
	32W	0.05 to 1	T8	2	2	2	2	2	2	VEZ-2S32-SC	**3VK07**
	32W	0.05 to 0.97	T8	2, 3	3	2	3	3	3	VEZ-3S32-SC	**3VK08**


No. 35JE75


No. 4KGH5


No. 5ZND2

Rapid-Start Electronic Fluorescent Ballasts

LumaPro | FULHAM Lighting. Global. Intelligent. Sustainable. | PHILIPS ADVANCE | GE current a Daintree company

Rapid-start electronic fluorescent ballasts turn on lights near-instantaneously. They are less damaging to light bulbs than instant-start ballasts and are used in fluorescent fixtures that will be turned on or off frequently via occupancy sensors and other lighting controls that automatically operate the lights. These ballasts are not dimmable.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast F9BX	F13DBX	F18BX	F26DBX	F32BX	F42BX	Mfr. Model	Item No.
Compact Fluorescent Bulbs												
LumaPro®												
120VAC	13W	12W	0.8	1	—	1	—	—	—	—	16X951	**16X951**
	13W	29W	0.87	2	2	2	—	—	—	—	16X952	**16X952**
	18W	31W	0.88	1, 2	—	—	2	—	—	—	16X953	**16X953**
Fulham PONY												
120/230VAC	32W	20 to 31W	0.842 to 1.046	1	—	—	—	—	—	—	NPY-120-126-CFL	**35JE75**
	39W	26 to 38W	0.966 to 1.013	2	—	—	—	—	—	—	NPY-120-218-CFL	**35JE76**
Advance SmartMate®												
120 to 277VAC	16W	29W	1	1, 2	—	1 or 2	—	—	—	—	ICF-2S13-H1-LD-K	**4ZZ33**
	21W	35W	0.95	1, 2	—	—	1 or 2	—	—	—	ICF-2S18-H1-LD-K	**4ZZ34**
	42W	51W	1	1, 2	—	—	—	1 or 2	1	1	ICF-2S26-H1-LD-K	**4ZZ35**
	70W	93W	0.97	2	—	—	—	2	2	2	ICF-2S42-M2-LD-K	**5YG67**
T5 Bulb Type					**F13T5**	**F14T5**	**F15T8**	**F21T5**				
Fulham PONY												
120VAC	30W	23 to 30W	1.074	1, 2	2	2	2	1	—	—	SC-120-213-LT5	**35JE77**
T8 Bulb Type					**F48T8**	**F60T8**	**F72T8**	**F96T8**				
LumaPro®												
120 to 277VAC	110W	180W	0.89	2	2	2	2	1 or 2	—	—	4KGH5	**4KGH5**
Advance Centium™												
120 to 277VAC	110W	186 to 191W	0.9	1, 2	—	—	—	—	—	—	ICN-2S110-SC	**4VMY7**
T12 Bulb Type					**F20T12**	**F25T12**	**F30T12**	**F34T12**	**F40T12**			
GE Current ProLine™												
120 to 277VAC	75W	28W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	GE240PS-MV-N	**4PRX3**
Advance Centium™												
120 to 277VAC	40W	72W	0.85	2	—	—	2	2	2	—	ICN-2S40-N	**4FZN3**
Advance AmbiStar™												
120VAC	40W	72W	0.85	2	—	—	2	2	2	—	RELB-2S40-N	**5ZND2**



GE current, a Daintree company | LumaPro | FULHAM Lighting. Global. Intelligent. Sustainable. | PHILIPS ADVANCE

Programmed Rapid-Start Electronic Fluorescent Ballasts

Programmed rapid-start electronic fluorescent ballasts turn on lights near-instantaneously. These non-dimmable ballasts are more energy efficient and less damaging to light bulbs than instant-start ballasts and rapid-start ballasts. They are used in fluorescent fixtures that will be turned on or off frequently via occupancy sensors and other lighting controls that automatically operate the lights.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast						Mfr. Model	Item No.	
Compact Fluorescent Ballast Bulb Type					**F13BX**	**F13DBX**	**F18DBX**	**F26DBX**	**F32TBX**	**F40BX**			
GE Current Multi-Volt ProLine													
120 to 277VAC	13W	29W	1	2	1	1	1	—	—	—	GEC213-MVPS-3W	**2XKV9**	
	18W	39W	1	2	—	—	2	1	—	—	GEC-218-MVPS-3W	**2XKW1**	
	26W	54W	1	2	—	—	—	2	1	—	GEC226-MVPS-3W	**2XKW2**	
	42W	43W	0.99	2	—	—	—	—	2	1	GEC-242-MVPS-3W	**6DGL0**	
GE Current UltraStart®													
120 to 277VAC	28W	40W	0.99	2	—	—	—	—	—	2	GEC225MVPS-A	**6DGK6**	
	40W	69W	0.99	2	—	—	—	—	—	2	GEC240MVPS-A	**6TWH0**	
LumaPro®													
120 to 277VAC	13W	32W	1	1, 2	1 or 2	1 or 2	—	—	—	—	4KGJ7	**4KGJ7**	
	18W	36W	0.94	1, 2	1 or 2	—	—	—	—	—	16X954	**16X954**	
	18W	40W	1.1	1, 2	—	1 or 2	1 or 2	—	—	—	16X959	**16X959**	
	26W	56W	0.87	1, 2	—	—	—	1 or 2	1	—	4KGJ9	**4KGJ9**	
	26W	53W	0.86	1, 2	—	—	—	1 or 2	—	1	16X960	**16X960**	
	40W	87W	0.88	1, 2	—	—	—	—	—	1 or 2	16X956	**16X956**	
	42W	88W	0.92	1, 2	—	—	—	2	—	1 or 2	16X961	**16X961**	
	42W	88W	0.92	2	—	—	—	2	2	2	4KGL2	**4KGL2**	
Compact Fluorescent, 2D, T5, T5HO Ballast Bulb Type					**F13BX**	**F18BX**	**F212D**	**F26DBX**	**F282D**	**F39BX**			
Fulham RaceHorse													
120 to 277VAC	57W	17 to 59W	0.88 to 1.06	1, 2	1 or 2	2	1 or 2	1 or 2	1	1	RHA-UNV-226-K	**35JE73**	*
	57W	17 to 59W	0.88 to 1.44	1, 2	1 or 2	2	1 or 2	1 or 2	1	1	RHA-UNV-226-C	**35JE74**	
T5 Ballast Bulb Type					**F14T5**	**F24T5**	**F28T5**	**F54T5**	**F55BX**	**F58T8**			
Advance Centium™													
120 to 277VAC	28W	62 to 63W	1.03	1, 2	1 or 2	—	1 or 2	—	—	—	ICN-2S28-N	**5AAL4**	
	28W	63 to 64W	1.03	1, 2	1 or 2	—	1 or 2	—	—	—	ICN-2S28-T	**1FYF7**	
GE Current UltraStart®													
347 to 480VAC	118W	63W	1	1, 2	—	—	—	1 or 2	—	1 or 2	GE254PS347/480-F	**26X010**	
347VAC	118W	63W	1.1	1, 2	—	—	—	1 or 2	—	1 or 2	GE254PS347-F 347	**26X011**	
120 to 277VAC	120W	55W	0.84	1, 2	—	—	—	1 or 2	—	1 or 2	GE254MVPS-D-1	**39WE26**	
	28W	41 to 60W	0.96	1, 2	2	1 or 2	1 or 2	—	—	—	GE-228-MV-PS-N-MC	**22EM06**	
	51W	24W	1.0	1, 2	1 or 2	1 or 2	—	—	—	—	GE224-MVPS-N	**22EM05**	
	54W	104 to 105W	1	1, 2	—	—	—	1 or 2	—	—	GE254-MV-PS-A	**42W128**	
	73W	25W	1.18	1, 2	1 or 2	—	1 or 2	—	—	—	GE228-MV-PS-H-MC	**22EM07**	
	222W	63W	1	1, 2, 3, 4	—	—	—	1, 2, 3, or 4	—	1, 2, 3, or 4	GE454-MV-PS90-F	**42W129**	
347 to 480VAC	229W	65W	1.75	1, 2, 3, 4	—	—	—	1, 2, 3, or 4	—	1, 2, 3, or 4	GE454PS347/480-E	**26X012**	
347VAC	229W	65W	1.75	1, 2, 3, 4	—	—	—	2 or 4	—	1, 2, 3, or 4	GE454PS347-E 347	**26X013**	
LumaPro®													
120 to 277VAC	24W	52W	1	2	—	1 or 2	—	—	—	—	4KGG1	**4KGG1**	
	39W	87W	1	2	—	1 or 2	—	—	—	—	4KGG2	**4KGG2**	
	55W	62W	1	2	—	—	—	1 or 2	1 or 2	—	4KGG3	**4KGG3**	
	55W	117W	1	4	—	—	—	2, 3 or 4	2, 3 or 4	—	4KGE7	**4KGE7**	
T5HO Ballast Bulb Type					**F24T5**	**F39T5**	**F50BX**	**F54T5**	**F55BX**	**FC12T5**			
Advance Centium™													
120 to 277VAC	24W	52W	1	1, 2	1 or 2	1	—	—	—	—	ICN-2S24-T	**3CE44**	
	39W	85 to 87W	1	1, 2	1 or 2	1 or 2	—	—	—	—	ICN-2S39-T	**3CE45**	
347 to 480VAC	54W	119 to 120W	1	1, 2	—	—	—	1 or 2	—	—	HCN-2S54-90C-WL	**2LMW5**	
120 to 277VAC	54W	117 to 120W	1	1, 2	—	—	—	1 or 2	—	1 or 2	ICN-2S54-T	**3CE46**	
	54W	117 to 119W	1	1, 2	—	—	1 or 2	1 or 2	1 or 2	—	ICN-2S54-90C-N	**24W561**	
	54W	234 to 240W	1	3, 4	—	—	—	3 or 4	—	—	ICN-4S54-90C-2LS-G	**1FYE5**	
T8 Ballast Bulb Type					**F17T8**	**F25T8**	**F28T8**	**F32T8**	**F40T8**	**F58T8**			
Advance Optanium													
120 to 277VAC	32W	55 to 56W	0.89	1, 2	1 or 2	1 or 2	2	1 or 2	—	—	IOP-2PSP32-N	**13Y375**	
	32W	45 to 46W	0.89	1, 2	1 or 2	1 or 2	2	1 or 2	1	—	IOP-2PSP32-LW-N	**13Y376**	
	32W	84 to 85W	0.88	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	IOP-3PSP32-SC	**5KNJ2**	
	32W	71W	0.65	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	IOP-3PSP32-LW-SC	**29NT97**	
	32W	109 to 110W	0.88	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	IOP-4PSP32-SC	**5KNJ3**	
	32W	93 to 94W	0.71	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	IOP-4PSP32-LW-SC	**29NT98**	
GE Current UltraStart®													
120 to 277VAC	59W	19W	0.88	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE232-MV-PS-N	**2DCX1**	
	114W	43W	0.88	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	—	GE432-MV-PS-N	**2FPJ1**	
Fulham IceHorse													
120 to 277VAC	157W	66 to 157W	1	1, 2	—	—	—	—	—	1 or 2	IH2-UNV-270-T8	**35JE71**	
	99W	30 to 99W	1	1, 2	—	1 or 2	—	1 or 2	1 or 2	—	IH1-UNV-232-T8	**35JE70**	
LumaPro®													
120 to 277VAC	40W	56W	0.88	2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	4KGD8	**4KGD8**	
T8HO Ballast Bulb Type					**F40T8**	**F48T8**	**F60T8**	**F72T8**	**F96T8**				
Advance Centium™													
120 to 277VAC	86W	178 to 182W	1	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	ICN-2S86-SC	**5KB48**	
T8, T12 Ballast Bulb Type					**F42/F48T12**	**F48T12**	**F48T8**	**F60T12**	**F60T8**				
Fulham IceHorse													
120 to 277VAC	145W	54 to 145W	0.49	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	IH3-UNV272T12HO	**35JE72**	
T12 Ballast Bulb Type					**F48T12**	**F60T12**	**F72T12**	**F96T12**					
GE Current ProLine™													
120 to 277VAC	204W	103W	0.88	1, 2	2	2	2	1 or 2	—	—	GE296H0-MVPS-N	**39WE25**	

**** Kit includes ballast, snap-on-plate, required wires, wire removing tool, nuts, and screw.***

PHILIPS ADVANCE | GE current, a Daintree company | LumaPro | FULHAM Lighting... Global Intelligent. Sustainable. | Watran

Instant-Start Electronic Fluorescent Ballasts

Instant-start electronic fluorescent ballasts turn on lights immediately and are used in fluorescent fixtures in warehouses and other areas where lights are left on for long periods of time. These non-dimmable ballasts provide high voltage at start-up and should not be used with occupancy sensors or other lighting controls that turn lights on or off frequently.


No. 2MCX5

Input Voltage	Max. Bulb Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast						Brand	Mfr. Model	Item No.
Compact Fluorescent Bulbs				**F18BX**	**F24BX**	**F32BX**	**F36BX**	**F39BX**	**F40BX**			
	40 W	0.88	1, 2	—	—	—	—	—	1 or 2	Advance Centium	ICN-2TTP40-SC	**1XWJ5**
	40 W	0.88	3	—	—	—	—	—	3	Advance Centium	ICN-3TTP40-SC	**1XWJ6**
	40 W	0.99	1	—	—	1	—	—	1	GE Current UltraMax®	GEC140MAX-A	**6DGK5**
120 to 277V AC	40 W	0.99	2	—	—	—	—	—	2	GE Current UltraMax®	GEC240MAX-A	**6TWG8**
	40 W	0.99	3	—	—	3	—	—	3	GE Current UltraMax®	GEC340MAX-A	**6TWG9**
	40 W	0.88	1, 2	1 or 2	1 or 2	—	1 or 2	1 or 2	1 or 2	LumaPro®	16X955	**16X955**
	40 W	0.88	2, 3	—	—	—	2 or 3	2 or 3	2 or 3	LumaPro®	16X957	**16X957**
T5, T8, T12 Bulb Type				**F15T8**	**F15T12**	**F28T5**	**F32T8**	**F39T5**	**F96T12**			
	30 W	1.03	1	—	—	1	—	—	—	Fulham WorkHorse	WH1-120-L	**35JE49**
	28 W	1.1	1, 2	1 or 2	1	—	—	—	—	Fulham WorkHorse	WH22-120-C	**35JE56**
120V AC	32 W	0.8	1, 2	1 or 2	1	—	—	—	—	Fulham WorkHorse	WH22-120-L	**35JE55**
	38 W	0.87	1, 2	1	1	1	1	—	—	Fulham WorkHorse	WH2-120-C	**35JE52**
	38 W	0.87	1, 2	1	1	1	1	—	—	Fulham WorkHorse	WH2-120-L	**35JE51**
	39 W	0.9	1, 2	1	1	1	1	—	—	Fulham WorkHorse	WH2-277-L	**35JE53**
277V AC	39 W	0.9	1, 2	1	1	1	1	—	—	Fulham WorkHorse	WH2-277-C	**35JE54**
	62 W	1.1	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham WorkHorse	WH3-277-L	**35JE59**
	62 W	1.1	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham WorkHorse	WH3-277-C	**35JE60**
	62 W	0.93	1, 2	1	1	2	1	1	—	Fulham WorkHorse	WH4-120-L	**35JE63**
120V AC	73 W	0.93	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham WorkHorse	WH3-120-L	**35JE57**
	73 W	0.99	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham WorkHorse	WH3-120-C	**35JE58**
277V AC	108 W	0.92	1, 2, 3, 4	1 or 2	1 or 2	3 or 4	2	1 or 2	1 or 2	Fulham WorkHorse	WH6-277-L	**35JE67**
	113 W	1.15	1, 2, 3, 4	3 or 4	2, 3, or 4	—	3 or 4	2 or 3	1 or 2	Fulham WorkHorse	WH5-277-L	**35JE65**
	127 W	0.87	1, 2, 3, 4	3 or 4	2, 3, or 4	—	3 or 4	2 or 3	1 or 2	Fulham WorkHorse	WH5-120-L	**35JE64**
	242 W	1.17	1, 2, 3, 4	—	—	—	—	4	3	Fulham WorkHorse	WH7-120-L	**35JE68**
120V AC	65 W	0.8	1, 2, 3, 4	2, 3, or 4	2 or 3	—	—	1	—	Fulham WorkHorse	WH33-120-L	**35JE61**
	65 W	0.87	1, 2, 3, 4	2, 3, or 4	2 or 3	—	—	1	—	Fulham WorkHorse	WH33-120-C	**35JE62**
	95 W	1.15	1, 2, 3, 4	1 or 2	1 or 2	3 or 4	2	1 or 2	1 or 2	Fulham WorkHorse	WH6-120-L	**35JE66**
	241 W	0.98	1, 2, 3, 4, 5, 6	5 or 6	4, 5, or 6	—	6	3, 4, or 5	2	Fulham WorkHorse	WH8-120-L	**35JE69**
T8 Bulb Type				**F17T8**	**F25T8**	**F28T8**	**F32T8**	**F40T8**	**F96T8**			
	32 W	0.91	1	1	1	1	1	—	—	Advance Centium™	ICN-1P32-N	**3HHH4**
	32 W	0.88	1	1	1	1	1	—	—	Advance Centium™	ICN-132-MC	**5KB44**
	32 W	0.89	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	Advance Centium™	ICN-2P32-N	**2MCX5**
	32 W	0.88	2	2	2	2	2	—	—	Advance Centium™	ICN-2M32-MC	**5KB46**
	32 W	0.88	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Centium™	ICN-3P32-N	**1VN21**
	32 W	0.89	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Centium™	ICN-4P32-N	**1VN22**
	32 W	0.91	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-N	**5PTN3**
	32 W	0.77	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-LW-N	**5PTN5**
	32 W	1.18	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-HL-N	**5PTN7**
	32 W	0.89	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOP-2P32-HL-N	**1FEW2**
120 to 277V AC	32 W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOPA-2P32-N	**5PTN4**
	32 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOPA-2P32-LW-N	**5PTN6**
	59 W	0.87	1, 2	—	—	—	—	—	1 or 2	Advance Optanium	IOP-2P59-N	**1XWJ3**
	32 W	0.89	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	Advance Optanium	IOP-3P32-HL-N	**1FEW3**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Optanium	IOPA-3P32-N	**21AN20**
	32 W	0.77	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Optanium	IOPA-3P32-LW-N	**21AN21**
	32 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOPA-4P32-N	**36N040**
	32 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOPA-4P32-LW-N	**41H214**
	32 W	0.89	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOP-4P32-HL-SC	**36ND50**
	145 W	0.82	1, 2	—	—	—	—	1 or 2	1 or 2	GE Current ProLine™	GE286MAXHO-N	**14H321**
120V AC	53 W	0.83	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE Current ProLine™	GE232-120-RES	**4XLC4**
120 to 277V AC	55 W	0.88	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	GE Current ProLine™	GE223MV-M	**489M85**
120V AC	105 W	0.79	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	GE Current ProLine™	GE432-120-RES	**4XLC5**
120 to 277V AC	108 W	0.87	1, 2	—	—	—	—	1 or 2	1 or 2	GE Current UltraMax	GE259MAXP-N-ULTRA	**3CB72**
347V AC	48 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE Current UltraMax	GE-232-MAX347-L	**4XLC9**
	53 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE Current UltraMax	GE-232-MAX347-N	**4XLC6**
120 to 277V AC	56 W	0.88	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	GE Current UltraMax	GE232MAX-G-N	**2VEW9**
480V AC	73 W	1.18	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	GE Current UltraMax	GE232-MAX-480-H	**12J906**
	108 W	1.18	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	GE Current UltraMax	GE332-MAX-480-H	**12J908**
120 to 277V AC	32 W	0.77	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	GE Current UltraMax	GE332-MAX-L/ULTRA	**5GVC0**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	GE Current UltraMax	GE-332-MAX-H/ULTRA	**5GVC2**
347V AC	45 W	0.77	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	GE Current UltraMax	GE-332-MAX347-L	**4XLD1**
120 to 277V AC	81 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	GE Current UltraMax	GE332MAX-G-N	**4PRW8**
347V AC	106 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	GE Current UltraMax	GE-432-MAX347-N	**4XLC8**
120 to 277V AC	113 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	GE Current UltraMax	GE432MAX-G-N	**4PRX1**
	148 W	1.18	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	GE Current UltraMax	GE432MAXP-H-ULTRA	**2XKW6**
347V AC	96 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	GE Current UltraMax	GE-432-MAX347-L	**4XLD2**
	32 W	1.18	6	5 or 6	5 or 6	5 or 6	5 or 6	5	—	GE Current UltraMax Professional	GE632-MAX-H90	**4DZV5**
	25 W	0.77	1	1	1	1	1	—	—	GE Current UltraMax Professional	GE132MAXP-L-ULTRA	**2VEW6**
	28 W	0.87	1	1	1	1	1	—	—	GE Current UltraMax Professional	GE132MAXP-N-ULTRA	**2RTZ3**
	49 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE Current UltraMax Professional	GE232MAXP-L-ULTRA	**2VEW7**
	53 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE Current UltraMax Professional	GE232MAXP-N-ULTRA	**2VEW8**
	76 W	1.18	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	GE Current UltraMax Professional	GE232MAXP-H-ULTRA	**5GVA9**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	GE Current UltraMax Professional	GE332MAXP-N-ULTRA	**5GVC1**
	101 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	—	GE Current UltraMax Professional	GE432MAXP-L-ULTRA	**5GVC3**
	110 W	0.88	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	GE Current UltraMax Professional	GE432MAXP-N-ULTRA	**5GVC4**
	40 W	1.18	2	—	—	—	—	1	—	LumaPro®	4KGE4	**4KGE4**
120 to 277V AC	40 W	0.78	2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	LumaPro®	4KGK7	**4KGK7**
	40 W	0.89	2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	LumaPro®	4KGL4	**4KGL4**
	59 W	0.88	2	—	—	—	—	—	1 or 2	LumaPro®	4KGF7	**4KGF7**
	40 W	1.18	3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	LumaPro®	4KGE5	**4KGE5**
	40 W	0.88	3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	LumaPro®	4KGF5	**4KGF5**
	40 W	0.78	3	2 or 3	—	2 or 3	2 or 3	2	—	LumaPro®	4KGK8	**4KGK8**
	40 W	1.16	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro®	4KGE6	**4KGE6**
	40 W	0.88	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro®	4KGF6	**4KGF6**
	40 W	0.77	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro®	4KGK9	**4KGK9**
	40 W	0.89	1, 2	2	2	1 or 2	2	1	—	Watran	LPT80210	**451F82**
	40 W	0.98	1, 2	1	2	1 or 2	1	1	—	Watran	LPT80211	**451F83**
	40 W	0.89	1, 2, 3, 4	4	4	1, 2, 3, or 4	4	3	—	Watran	LPT80215	**451F84**
T9 Bulb Type				**FC8T9**	**FC12T9**							
120V AC	32 W	0.89	2	2	2	—	—	—	—	Watran	80227	**451F97**
T12 Bulb Type				**F48T12**	**F60T12**	**F64T12**	**F72T12**	**F84T12**	**F96T12**			
120 to 277V AC	75 W	0.88	1, 2	—	—	—	1 or 2	—	1 or 2	Advance Centium™	ICN-2P60-N	**4VMY6**
	141 W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	GE Current ProLine™	GE-260-IS-MV-N	**4PRX4**



No. 6V986

LumaPro PHILIPS ADVANCE

Preheat-Start Magnetic Fluorescent Ballasts

Preheat-start magnetic fluorescent ballasts take a few seconds to turn on light bulbs. These ballasts have a longer lifespan and are less damaging to bulbs than trigger-start ballasts.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Lamps per Ballast						Mfr. Model	Item No.
Compact Fluorescent					**F5BX**	**F7BX**	**F9BX**	**F13BX**	**F212D**	**F26DBX**		
Advance												
120V AC	8 W	10W	—	1	1	1	1	—	—	—	LPL-5-9	**6V836**
120VAC	13W	13W	0.93	1	—	—	—	1	—	—	LC13TPM	**60AA52**
120V AC	13 W	16W	—	1	—	—	—	1	—	—	H-1B13-TP-W	**6V986**
	28 W	26W	0.83	1	—	—	—	—	1	1	H-1Q26-TP-W	**3V983**
277V AC	9 W	13W	—	1	1	1	1	—	—	—	VH-1B9-TP-W	**6V985**
	13 W	13W	—	1	—	—	—	1	—	—	VH-1B13-TP-W	**6V987**
T5, T9, T12					**F6T5**	**F8T5**	**FC8T9**	**FC12T9**	**FC16T9**	**F20T12**		
LumaPro												
120V AC	22 W	17W	0.82	1	—	—	1	—	—	1	1XUK6	**1XUK6**
	40 W	40W	0.66	1	—	—	—	1	1	—	38RV39	**38RV39**
Advance												
120V AC	8 W	11W	1.08	1	1	1	—	—	—	—	LC-4-9-C	**6V834**



No. 6V830

Trigger-Start Magnetic Fluorescent Ballasts

PHILIPS ADVANCE

Trigger-start magnetic fluorescent ballasts require a higher open-circuit voltage than rapid-start ballasts to turn on light bulbs. They turn light bulbs on near-instantaneously, but it may take the bulbs a few seconds to reach full brightness.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Lamps per Ballast				Mfr. Model	Item No.
					F14T12	**F15T12**	**F15T8**	**F20T12**		
120V AC	20 W	27W	0.9	1	1	1	1	1	HM-1P20-TP	**6V830**
	20 W	53W	0.9	2	2	2	2	2	HM-2SP20-TP	**6V832**



No. 6V871

PHILIPS ADVANCE LumaPro

Rapid-Start Magnetic Fluorescent Ballasts

Rapid-start magnetic fluorescent ballasts have a longer lifespan and are less damaging to bulbs than trigger-start ballasts. These ballasts turn light bulbs on near-instantaneously, but it may take the bulbs a few seconds to reach full brightness.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Lamps per Ballast						Brand	Mfr. Model	Item No.
					FC6T9	**FC12T9**	**FC16T9**	**F48T12**	**F60T12**	**F72T12**			
120V AC	22 W	25W	0.75	1	1	—	—	—	—	—	Advance	RLQS-122-TP-W	**6V872**
	40 W	60W	0.55	2	—	1	1	—	—	—	LumaPro	1XUH7	**1XUH7**
	40 W	31W	0.63	1	—	1	1	—	—	—	Advance	RLCS-140-TP-W	**6V871**
	40 W	56W	0.6	1	—	1	1	—	—	—	Advance	RS-32-40-TP-W	**6V885**
	215 W	238W	0.87	2	—	—	—	1 or 2	1	1	Advance	RC-2S102-TP	**6V852**
	215 W	345W	0.8	2	—	—	—	—	2	2	Advance	RC-2S200-TP	**6V855**



No. 35XR86

PHILIPS ADVANCE

Sign Ballasts

Sign ballasts provide power to light up T8HO or T12HO high-output light bulbs used in indoor and outdoor signs. They withstand cold temperatures, rain, and other harsh weather. These ballasts are designed power specific quantities and lengths of bulbs. When one bulb in the circuit fails, the other bulbs will stay lit so the burnt-out bulb can be quickly identified and replaced.

Voltage	Input Watts	Number of Bulbs Supported	Min. Total Bulb Footage	Max. Total Lamp Footage	Min. Start Temp.	Series	Mfr. Model	Item No.
120/277VAC	136W	2	2 ft	16 ft	-20°F	SignPRO	ISB-0216-12-E	**35XR86**
120/277VAC	273W	4	4 ft	32 ft	-20°F	SignPRO	ISB-0432-14-E	**35XR87**
120/277VAC	348W	4	10 ft	40 ft	-20°F	SignPRO	ISB-1040-14-E	**35XR88**
120/277VAC	415W	4, 5, 6	8 ft	48 ft	-20°F	SignPRO	ISB-0848-46-E	**35XR89**

PHILIPS ADVANCE

Ballast Checker

Handheld device confirms ballast type from up to 15 ft. away. When pointed at a light fixture, the device turns green if the fixture is powered by an electronic ballast, and it turns orange if the fixture is powered by a magnetic ballast. Compact unit is 4½" x 2¼". Includes battery and lanyard.

Mfr. Model	Item No.
ABC100	**2LMW4**



PHILIPS ADVANCE GE current a Daintree company

Electronic HID Ballasts

Electronic HID ballasts are more energy-efficient and less damaging to HID bulbs than other types of HID ballasts, and they provide accurate power regulation for consistent light output and light quality across the life of the bulbs. They also tend to be smaller and weigh less than other styles of HID ballasts. For use with metal-halide HID bulbs.



No. 4HGJ6

Input Voltage	Max. Bulb Watts	ANSI Code	Ballast Start Type	Operating Amps @ 120V	Operating Amps @ 277V	Side Exit Leads w/Mounting Feet Mfr. Model	Side Exit Leads w/Mounting Feet Item No.	Bottom Exit Leads w/Mounting Studs Mfr. Model	Bottom Exit Leads w/Mounting Studs Item No.
Advance e-Vision™									
120 to 277VAC	20W	C156/M156	Pulse	0.2	0.1	IMH-G20-K-LF	**30PK97**	—	—
	20W	C156/M156	Pulse	0.2	9.0	IMH-G20-G-LF	**30PK98**	IMH-G20-G-BLS	**30PL08**
120VAC	22W	C175	Pulse	0.23	—	RMH-20-K-LF	**30PL01**	RMH-20-K-BLS	**30PL09**
120/277VAC	39W	C130/M130	Pulse	0.37	0.17	IMH-39-G-LF	**4HGH8**	—	—
	39W	C130/M131	Pulse	0.37	0.17	—	—	IMH-39-G-BLS	**4HGH9**
120 to 277VAC	70W	C98/M98/C139/M139/M1	Pulse	0.68	0.29	IMH-70-E-LF	**30PL06**	—	—
120/277VAC	70W	C98/M98/C139/M139/M1	Pulse	0.66	0.28	IMH-70-G-LF	**4HGJ6**	IMH-70-G-BLS	**4HGJ7**
	70W	C98/M98/C139/M139/M1	Pulse	0.66	0.28	IMH-70-D-LF	**4HGJ9**	IMH-70-D-BLS	**4HGK1**
	100W	C90/M90/M140/C191	Pulse	0.92	0.4	IMH-100-D-LF	**4HGK3**	IMH-100-D-BLS	**4HGK4**
	150W	C102/M102/C142/M142	Pulse	1.4	0.6	IMH-150-H-LF	**4HGK6**	IMH-150-H-BLS	**4HGK7**
GE Current Ultramax™ eHID									
120VAC	20W	M156	Pulse	0.36	—	—	—	GEMH20-MLF-120	**2TNU7**
	23W	M156	Pulse	0.2	—	GEMH20-MC-120	**4XLD9**	—	—
	39W	M130	Pulse	0.39	—	GEMH39-MC-120	**4XLE1**	—	—
120/277VAC	39W	M130/C130	Pulse	0.17	0.39	—	—	GEMH39-MSF-MV	**12J910**
120VAC	70W	M98/M143/M139/C143/C139	Pulse	0.68	—	GEMH-70-MSF-120	**2TNU9**	—	—
120/277VAC	70W	M98/M143/M139/C143/C139	Pulse	0.66	0.3	—	—	GEMH-70-SLJ-MV	**2TNV1**

PHILIPS ADVANCE GE current a Daintree company

Indoor Quiet HID Ballasts

The inside of the housing on these HID ballasts is insulated to eliminate or greatly reduce the hum generated by HID ballasts. Also known as F-can ballasts, they are used in HID light fixtures in indoor areas where noise must be minimized.



No. 3V564

Input Voltage	Max. Bulb Watts	ANSI Code	Ballast Start Type	Operating Amps @ 120V	Operating Amps @ 277V	Brand	Mfr. Model	Item No.
For Use With High Pressure Sodium HID Bulbs								
120/277VAC	70W	S62	Pulse	0.82	0.36	Advance	72C7984-NP-001	**6V769**
120/277VAC	100W	S54	Pulse	1.1	0.5	Advance	72C8084-NP-001	**6V770**
For Use With Metal Halide HID Bulbs								
120/277VAC	400W	M59	Probe	3.9	1.7	Advance	72C6082-NP-001	**1N109**
120/277VAC	100W	M90/M140	Pulse	1.1	0.48	Advance	72C5381-NP-001	**3V564**
120/277VAC	250W	M58	Probe	2.6	1.12	Advance	72C5782-NP-001	**3V565**
120/277VAC	70W	M98	Pulse	0.85	0.37	Advance	72C5282-NP-001	**3V566**
120/277VAC	175W	M57/M107	Probe	1.75	0.75	Advance	72C5581-NP-001	**6V768**
120 to 277VAC	400W	M59	Probe	9.0	3.9	GE Current	GEMH400MVR-F	**12J917**

GE current a Daintree company PHILIPS ADVANCE

Indoor Remote-Mount HID Ballasts

These enclosed HID ballasts mount outside of light fixtures. They are used in installations where the ballast must be mounted away from the fixture to reduce noise in the area around the fixture or to protect the ballast from damaging ambient temperatures. For use with metal-halide HID bulbs.



No. 12J912

Max. Bulb Watts	Input Voltage	Ballast Start Type	ANSI Code	Operating Amps @ 120V	Operating Amps @ 277V	Brand	Mfr. Model	Item No.
70W	120/277VAC	Probe	M98	0.7	0.3	GE Current	GEMH70MVR-F	**12J912**
100W	120/277VAC	Probe	M90	1.07	0.47	GE Current	GEMH100MVR-F	**12J913**
150W	120/277VAC	Probe	M102	1.75	0.75	GE Current	GEMH150MVR-F	**12J914**
1000W	120/277VAC	Probe	M47	9	3.9	Advance	78E6592-001	**6V791**

PHILIPS ADVANCE

Weatherproof HID Ballasts

Weatherproof HID ballasts have gaskets that prevent water and debris from getting inside the ballasts and damaging them. They have a rust-resistant aluminum housing and are used in outdoor fixtures such as parking garage lights, wallpacks, and floodlights.



No. 6V807

Max. Bulb Watts	Input Voltage	Ballast Start Type	ANSI Code	Operating Amps @ 480V	Brand	Mfr. Model	Item No.
For Use With Metal Halide HID Bulbs							
400W	480VAC	Probe	M59	1.0	Advance	79W6041-001	**6V807**
For Use With High Pressure Sodium HID Bulbs							
1000W	480VAC	Pulse	S52	2.3	Advance	79W8743-001	**6V818**



No. 1A029

PHILIPS ADVANCE | LumaPro | GE current, a Daintree company

HID Ballast Kits

HID ballast kits contain HID ballasts, capacitors, ignitors, and other parts that are used to maintain HID light fixtures. They are used when replacing old ballasts and their coordinating components in HID fixtures.

Max. Bulb Watts	Ballast Start Type	Input Voltage	ANSI Code	Brand	Item No.
Metal Halide					
39 W	Pulse	120/277V AC	M130	Advance	**6CAT2**
50 W	Pulse	120 to 277V AC	M110	Advance	**2LMV8**
50 W	Pulse	120/208/240/277V AC	M110	LumaPro	**6XPW1**
50 W	Pulse	120/208/240/277V AC	M110	Advance	**6CAT3**
70 W	Pulse	120/208/240/277V AC	M98	LumaPro	**1XUD6**
70 W	Pulse	120/208/240/277V AC	M98/M143	Advance	**3LE31**
100 W	Pulse	120/208/240/277V AC	M90	LumaPro	**1XUD7**
100 W	Pulse	120/208/240/277V AC	M98/M143	Advance	**3V555**
150 W	Pulse	120/208/240/277V AC	M102/M142	Advance	**1FYG1**
150 W	Pulse	120/208/240/277V AC	M102/M142	LumaPro	**4CRJ2**
175 W	Probe	120/208/240/277V AC	M57	LumaPro	**1XUD8**
175 W	Probe	120/208/240/277/480V AC	M57	LumaPro	**1XUD9**
175 W	Probe	120/208/240/277V AC	M57/M107	Advance	**3A531**
175 W	Pulse	120/208/240/277/480V AC	M137/M152	LumaPro	**1XUK1**
175 W	Pulse	120/208/240/277V AC	M137/M152	LumaPro	**4CRJ6**
175 W	Pulse	120/208/240/277V AC	M137/M152	Advance	**6CAT5**
200 W	Pulse	120/208/240/277V AC	M136	LumaPro	**4CRJ5**
200 W	Pulse	120/208/240/277V AC	M136	Advance	**4PL59**
250 W	Probe	120/208/240/277/480V AC	M58	Advance	**1FYG2**
250 W	Probe	120/208/240/277V AC	M58	Advance	**1N108**
250 W	Probe	120/208/240/V AC	M58	LumaPro	**1XUE1**
250 W	Probe	120/208/240/277/480V AC	M58	LumaPro	**1XUE2**
250 W	Probe	120/208/240/277V AC	M58	Advance	**3A532**
250 W	Probe	120/208/240/277V AC	M58	LumaPro	**4CRJ3**
250 W	Pulse	120/208/240/277V AC	M138/M153	LumaPro	**4CRH2**
250 W	Pulse	120/208/240/277/480V AC	M138/M153	LumaPro	**4CRH6**
250 W	Pulse	120/208/240/277V AC	M138/M153	Advance	**5YG60**
320 W	Pulse	120/208/240/277V AC	M132/M154	LumaPro	**4CRH3**
320 W	Pulse	120/208/240/277/480V AC	M132/M154	LumaPro	**4CRH7**
320 W	Pulse	120/208/240/277V AC	M132/M154	Advance	**4PL60**
350 W	Pulse	120/208/240/277V AC	M131	LumaPro	**4CRH4**
350 W	Pulse	120/208/240/277/480V AC	M131	LumaPro	**4CRJ9**
350 W	Pulse	120/208/240/277V AC	M131/M171	Advance	**4PL62**
400 W	Probe	120/208/240/277V AC	M59	Advance	**1A029**
400 W	Probe	120/208/240/277/480V AC	M59	Advance	**1FYG3**
400 W	Probe	120/208/240/277V AC	M59	LumaPro	**1XUE3**
400 W	Probe	120/208/240/277/480V AC	M59	LumaPro	**1XUE4**
400 W	Probe	480V AC	M59	Advance	**6V621**
400 W	Pulse	120/208/240/277V AC	M59	GE Current	**45MV55**
400 W	Probe	120/208/240/277/480V AC	M59/H33	GE Current	**48K858**
400 W	Pulse	120/208/240/277V AC	M135/M155	LumaPro	**4CRH5**
400 W	Pulse	120/208/240/277/480V AC	M135/M155	LumaPro	**4CRH8**
400 W	Pulse	120/208/240/277V AC	M135/M155	Advance	**4PL63**
400 W	Pulse	120/208/240/277/480V AC	M135/M155	Advance	**6CAT9**
400 W	Pulse	480V AC	M135/M155	Advance	**4YDZ3**
750 W	Pulse	277/347/480V AC	M149	Advance	**1ND73**
750 W	Pulse	120/208/240/277/480V AC	M149	LumaPro	**1XUK5**
750 W	Pulse	120/208/240/277/480V AC	M149	Advance	**6CAU0**
750 W	Pulse	120/208/240/277V AC	M149/M181	LumaPro	**4CRJ7**
1,000 W	Probe	120/208/240/277V AC	M47	Advance	**1A030**
1,000 W	Probe	120/208/240/277/480V AC	M47	Advance	**1FYD8**
1,000 W	Probe	120/208/240/277V AC	M47	LumaPro	**1XUE5**
1,000 W	Probe	120/208/240/277/480V AC	M47	LumaPro	**1XUE6**
1,000 W	Probe	480V AC	M47	Advance	**6V624**
1,000 W	Probe	120/208/240/277/480V AC	M47/H36	GE Current	**12J918**
1,000 W	Pulse	120/208/240/277V AC	M141	Advance	**6CAU1**
1,000 W	Pulse	120/208/240/277/480V AC	M141	LumaPro	**6XPW6**
1,000 W	Pulse	347/480V AC	M141	Advance	**3ZKX1**
1,000 W	Pulse	347/480V AC	M141	Advance	**4VMY8**
1,000 W	Pulse	120/208/240/277/480V AC	M141	GE Current	**4YRF1**
1,100 W	Pulse	120/208/240/277V AC	M141	LumaPro	**4CRJ8**
1,500 W	Probe	120/208/240/277V AC	M48	LumaPro	**4CRJ4**
1,500 W	Probe	480V AC	M48	LumaPro	**6XPW5**
1,500 W	Probe	480V AC	M48	Advance	**6CAT4**
High Pressure Sodium					
50 W	Pulse	120/208/240/277V AC	S68	LumaPro	**4CRH9**
50 W	Pulse	120 to 277V AC	S68	Advance	**6V627**
50 W	Pulse	120/208/240/277V AC	S68	Advance	**6CAU2**
70 W	Pulse	120/208/240/277V AC	S62	Advance	**1A975**
70 W	Pulse	120/208/240/277V AC	S62	LumaPro	**1XUF2**
70 W	Pulse	480V AC	S62	LumaPro	**6XPW7**
100 W	Pulse	120/208/240/277V AC	S54	Advance	**1A031**
100 W	Pulse	120/208/240/277V AC	S54	LumaPro	**1XUF3**
100 W	Pulse	480V AC	S54	LumaPro	**6XPW8**
150 W	Pulse	120/208/240/277V AC	S55	Advance	**1A032**
150 W	Pulse	120/208/240/277V AC	S55	LumaPro	**1XUF4**
150 W	Pulse	120/480V AC	S55	LumaPro	**4CRJ1**
150 W	Pulse	480V AC	S55	Advance	**6V760**
250 W	Pulse	120/208/240/277V AC	S50	Advance	**1A033**
250 W	Pulse	120/208/240/277/480V AC	S50	Advance	**1FYD9**
250 W	Pulse	120/208/240/277V AC	S50	LumaPro	**1XUF5**
250 W	Pulse	120/208/240/277/480V AC	S50	LumaPro	**1XUF6**
250 W	Pulse	480V AC	S50	LumaPro	**6XPW2**
400 W	Pulse	120/208/240/277V AC	S51	LumaPro	**1XUF7**
400 W	Pulse	120/208/240/277/480V AC	S51	LumaPro	**1XUF8**
400 W	Pulse	480V AC	S51	LumaPro	**6XPW3**
400 W	Pulse	120/208/240/277V AC	S51/M169	Advance	**1A034**
400 W	Pulse	120/208/240/277/480V AC	S51/M169	Advance	**1FYE1**
400 W	Pulse	480V AC	S51/M169	Advance	**6V762**
1,000 W	Pulse	120/208/240/277V AC	M90/M140	GE Current	**21GR17**
1,000 W	Pulse	120/208/240/277/480V AC	S52	Advance	**1FYE2**
1,000 W	Pulse	120/208/240/277V AC	S52	LumaPro	**1XUF9**
1,000 W	Pulse	120/208/240/277/480V AC	S52	LumaPro	**1XUG1**
1,000 W	Pulse	480V AC	S52	Advance	**6V763**
1,000 W	Pulse	120/208/240/277V AC	S52	Advance	**6V764**
1,000 W	Pulse	480V AC	S52	LumaPro	**6XPW4**
1,000 W	Pulse	120/208/240/277/480V AC	S52	GE Current	**48K876**



No. 30UJ98



No. 3HHH1

LumaPro | PHILIPS ADVANCE

HID Capacitors

HID capacitors install into ballasts on HID light fixtures to help prevent the bulbs in the fixtures from flickering. They help regulate the voltage and current going to the bulbs and ensure the bulbs can produce a steady light output. HID capacitors require regular replacement to ensure they continue to operate HID bulbs at full brightness.

MFD Rating	Voltage	For Use With	Dia.	H	Brand	Item No.
Dry-Film HID Capacitor						
5	300VAC	50W HPS, 35W MH Hx	1⅜"	3¼"	LumaPro	**30UK16**
6	300VAC	50W MH Hx	1⅜"	3¼"	LumaPro	**30UK22**
8	300VAC	70W MH HX-HPF, R-HPF	1¼"	2¾"	Advance	**5ZNE1**
10	400VAC	175W MH CWA	1¾"	3¼"	LumaPro	**30UJ99**
10	400VAC	175W MH CWA	1⅜"	3¾"	Advance	**5ZND3**
11	400VAC	175W PS SCWA	1¾"	3¼"	LumaPro	**30UK11**
12	300VAC	100W MH Hx	1⅜"	3¼"	LumaPro	**30UK06**
14	300VAC	150W HPS Hx	1⅜"	3¼"	LumaPro	**30UK09**
14	120VAC	35W HPS Reactor	1⅜"	3¼"	LumaPro	**30UK35**
14	120VAC	35W HPS R-HPF	1¼"	2¼"	Advance	**5ZNG8**
15	400VAC	250W MH CWA	1¾"	4⅝"	LumaPro	**30UK02**
15	400VAC	250W MH CWA	1¾"	3¾"	Advance	**5ZND5**
16	300VAC	150W MH Hx	1¾"	3⅛"	LumaPro	**30UK12**
16	400VAC	150W MH Hx	1¾"	4⅝"	LumaPro	**30UK26**
17	400VAC	250W PS SCWA	1¾"	4⅝"	LumaPro	**30UK13**
17.5	300VAC	90W LPS HX-HPF, 100W MH HX-HP, 150W HPS HX-HPF	1⅝"	3¾"	Advance	**5ZNE7**
20	120VAC	50W HPS Reactor	1⅜"	3¼"	LumaPro	**30UK29**
21	400VAC	320W PS SCWA	1¾"	4⅝"	LumaPro	**30UK03**
22	240VAC	150W TRI PS SCWA	1¾"	3¼"	LumaPro	**30UK31**
22.5	300VAC	320W PS SCWA	1¾"	3¼"	LumaPro	**30UK19**
22.5	400VAC	350W PS SCWA	1¾"	4⅝"	LumaPro	**30UK20**
24	300VAC	200W HPS CWA	1¾"	3¼"	LumaPro	**30UK33**
24	400VAC	400W MH CWA	1¾"	4⅝"	LumaPro	**30UK01**
24	400VAC	400W MH CWA	1¾"	4 13/16"	Advance	**5ZND4**
26	330VAC	400W PS SCWA	1¾"	4⅝"	LumaPro	**30UK07**
26	330VAC	400W PS SCWA	1¾"	4 13/16"	Advance	**5ZNE0**
26.5	400VAC	450W PS SCWA	2"	4¼"	LumaPro	**30UK36**
35	300VAC	400W Merc CWA	1¾"	4⅝"	LumaPro	**30UK34**
55	240VAC	150, 400W HPS CWA	1¾"	4⅝"	LumaPro	**30UJ98**
55	120VAC	150W HPS Reactor	1¾"	4⅝"	LumaPro	**30UK24**
Oil-Filled HID Capacitor						
24	480VAC	1000W MH CWA	1¾"	3⅞"	Advance	**3HHH1**
24	480VAC	1000W MH SCWA	1¾"	3⅞"	Advance	**5ZND7**
32	525VAC	1500W MH CWA	2"	3¾"	Advance	**5ZNF0**



No. 3A533

LumaPro | PHILIPS ADVANCE

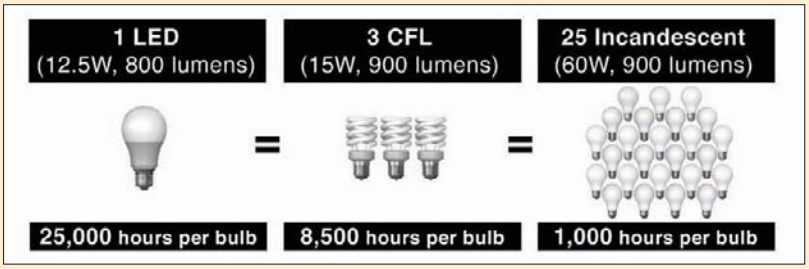
Ballast Ignitors

HID ballast ignitors install into HID light fixtures that have core-and-coil ballasts. They produce the initial voltage needed to light the fixtures' HID bulbs and should be replaced when the lights begin to flicker or fail to light.

Max. Bulb Watts	Min. Distance to Bulb	Max. Distance to Bulb	Item No.
Advance Val-U-Pak Plus (77L)			
High Pressure Sodium Ballast Ignitors			
150W	5"	2 ft.	**3A533**
400W	5"	2 ft.	**3A534**
1000W	15 ft.	15 ft.	**1N117**
1000W	15 ft.	75 ft.	**1N118**
Metal Halide Ballasts Ignitors			
400W	2 ft.	25 ft.	**3V987**
LumaPro			
High Pressure Sodium Ballast Ignitors			
105W	12"	15"	**1XUG3**
400W	12"	15"	**1XUG4**
1000W	—	15 ft.	**1XUG5**
Metal Halide Ballasts Ignitors			
450W	2 ft.	25 ft.	**1XUG2**

The Life of an LED Bulb

LED bulbs use significantly less energy and need to be replaced less often than other bulb types. Instead of burning out, LED bulbs typically undergo lumen reduction where their brightness fades over time as individual diodes in the bulbs begin to fail. An LED bulb is considered spent when its light output has decreased by 30%. Note: The life of an LED bulb (as measured in hours) and how that life compares to other bulb types is based on ideal conditions where the bulb is used in its intended application.



Understanding Color Temperature of a Light Bulb

Color temperature describes the hue and tone of white that a light bulb emits. It is measured numerically on the degrees Kelvin (K) scale. Light output at about 4000K is neutral white. Light output below 4000K gets warmer and yellower as the degrees Kelvin rating decreases. Light output above 4000K gets cooler and bluer as the degrees Kelvin rating increases.

Color Temperature	Warm/Medium	Neutral	Cool	Daylight
Kelvin Range	2700K - 3000K	3500K - 4100K	4100K - 5000K	6500K
Appearance	Orange/Yellow	White	Blue	Blue
Commercial and Industrial Spaces	Restaurants, Lobbies and Hotel Rooms, and Retail Stores	Offices, Classrooms, Supermarkets, Restrooms, and Breakrooms	Merchandisers Showrooms, Hospitals, and Parking Garages	Museums, Galleries, Task Lighting, Warehouses, and Manufacturing
Residential Environments	Living room, Dining room and Bedrooms	Kitchens, Bathrooms and Workspaces		Reading Areas and Outdoor lighting
Ambiance	Relaxing, Calming, and Friendly	Friendly, Inviting and Vibrant	Bright, Clean, and Invigorating	Energizing, Alert and Intense

Lumens and Watts

Lumens is a measure of how much light a bulb produces, its brightness. The higher the lumens, the brighter the light. Lumens, not watts, provide a basis for comparing the brightness of light bulbs. Watts is a measure of how much energy a light bulb uses. LED light bulbs are the most energy efficient light technology. They require the least energy to run compared to CFL, halogen, and incandescent bulbs of the same lumen output.

Lumens	LED	CFL	Halogen	Incandescent
450	6-8 Watts	9-13 Watts	25-29 Watts	40 Watts
800	9-12 Watts	14-16 Watts	40-43 Watts	60 Watts
1100	13-15 Watts	17-22 Watts	50-53 Watts	75 Watts
1600	16-20 Watts	23-30 Watts	70-72 Watts	100 Watts
2600	21-28 Watts	30-45 Watts	30-45 Watts	150 Watts

Color Rendering Index (CRI)

Color rendering describes how accurately a light source shows color as compared to a natural light source. It is measured on the Color Rendering Index (CRI), which is a scale from 0 to 100% with 100% representing the most crisp, vivid, and true-to-life color. Light sources with CRI ratings from 85 to 90 provide good color rendering. Light sources with CRI ratings of 90 or more provide excellent color rendering and are ideal for lighting photo studios and production floors where tasks require color differentiation.

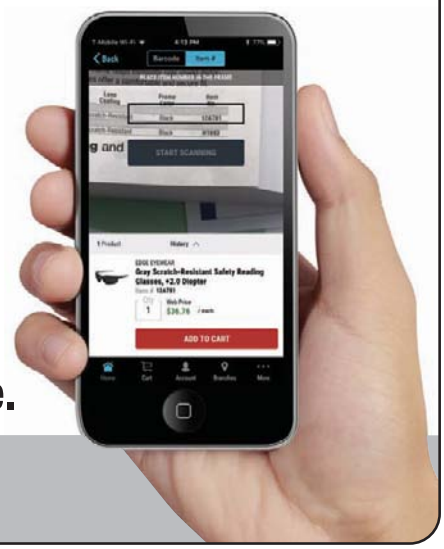


QUICKLY ORDER
Items From This Catalog With Your Mobile Device

- Scan the Item Number
- See Your Price
- Place Your Order. Done.



Scan. Order. Done.



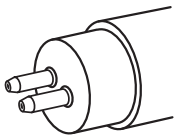


No. 436L57

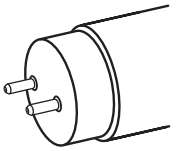
GE current a Daintree company | Shat-R-Shield The Protective Lighting Company | PHILIPS

Plug & Play LED General Purpose Linear Light Bulbs (UL Type A)

Install these bulbs in fluorescent lighting fixtures that are powered by ballasts. Avoid the expense of retrofitting lighting fixtures with LED drivers or wiring the bulbs into the building's power supply when switching lighting systems from fluorescent technology to LED technology. Users must verify that the light bulbs are compatible with the ballasts in the fixtures they will be installed in.



Miniature Bi-Pin (G5) Base



Medium Bi-Pin (G13) Base

Wattage Equivalency	Watts	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.	6500K Lumens	6500K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base												
2 ft Nominal Length												
15W LFL	7 W	GE Current	1000 lm	**55GU31**	1100 lm	**55GU32**	1150 lm	**55GU33**	1150 lm	**55GU34**	—	—
25W LFL	11 W	GE Current	1500 lm	**55GU19**	1550 lm	**55GU20**	1600 lm	**55GU21**	1600 lm	**55GU22**	—	—
3 ft Nominal Length												
18W LFL	10 W	GE Current	1500 lm	**55GU27**	1550 lm	**55GU28**	1600 lm	**55GU29**	1600 lm	**55GU30**	—	—
4 ft Nominal Length												
28W LFL	13 W	GE Current	1900 lm	**55GU23**	1950 lm	**55GU24**	2000 lm	**55GU25**	2000 lm	**55GU26**	—	—
54W LFL	25 W	GE Current	3650 lm	**436L57**	3750 lm	**436L58**	3800 lm	**436L59**	3900 lm	**436L60**	3800 lm	**436L61**
—	25 W	Shat-R-Shield	—	—	3300 lm	**55VR40**	—	—	3500 lm	**55VR43**	—	—
	25 W	Shat-R-Shield	—	—	3500 lm	**55VR42**	—	—	—	—	—	—
T8 Lamps, Medium Bi-Pin (G13) Base												
2 ft Nominal Length												
15W LFL	9 W	GE Current	—	—	1300 lm	**55GU16**	1300 lm	**55GU17**	1400 lm	**55GU18**	—	—
17W LFL	9 W	GE Current	—	—	1350 lm	**45CM34**	1400 lm	**45CM35**	1400 lm	**45CM36**	—	—
3 ft Nominal Length												
25W LFL	11 W	GE Current	—	—	1500 lm	**55GU13**	1500 lm	**55GU14**	1600 lm	**55GU15**	—	—
	12 W	GE Current	—	—	1550 lm	**45CM37**	1550 lm	**45CM38**	1650 lm	**45CM39**	—	—
4 ft Nominal Length												
32W LFL	10 W	GE Current	1550 lm	**467W24**	1600 lm	**467W25**	1600 lm	**467W26**	1650 lm	**467W27**	—	—
25W/28W/32W LFL	11.5 W	GE Current	1600 lm	**55GT86**	1600 lm	**55GT87**	1650 lm	**55GT88**	1700 lm	**55GT89**	—	—
32W LFL	12W	Philips	—	—	—	—	1800 lm	**55GY49**	1800 lm	**55GY50**	—	—
25W/28W/32W LFL	12 W	GE Current	—	—	1800 lm	**49YR81**	1800 lm	**49YR82**	1900 lm	**49YR83**	—	—
—	12 W	Shat-R-Shield	—	—	1700 lm	**55VR60**	1800 lm	**55VR58**	1800 lm	**55VR59**	—	—
32W LFL	14 W	GE Current	1950 lm	**467W17**	2000 lm	**467W18**	2000 lm	**467W19**	2050 lm	**467W20**	—	—
25W/28W/32W LFL	14 W	GE Current	1950 lm	**55GT90**	2000 lm	**55GT91**	2000 lm	**55GT92**	2050 lm	**55GT93**	—	—
28W/32W LFL	15 W	GE Current	—	—	2250 lm	**49YR76**	2200 lm	**48PY02**	2350 lm	**49YR78**	—	—
32W LFL	15 W	GE Current	—	—	2150 lm	**467W21**	2200 lm	**467W22**	2250 lm	**467W23**	—	—
—	15 W	Shat-R-Shield	—	—	2100 lm	**55VR61**	2200 lm	**55VR62**	2200 lm	**55VR63**	—	—
28W/32W LFL	15 W	GE Current	2100 lm	**48PX99**	2200 lm	**48PY01**	2250 lm	**49YR77**	2300 lm	**48PY03**	2300 lm	**48PY04**
32W LFL	16W	Philips	—	—	—	—	1800 lm	**55GY68**	1800 lm	**55GY69**	—	—
	16W	Philips	—	—	—	—	1800 lm	**55GY76**	1800 lm	**55GY77**	—	—
	18 W	GE Current	2400 lm	**48PX94**	2550 lm	**36UX09**	2550 lm	**36UX10**	2600 lm	**48PX97**	2600 lm	**48PX98**
	18 W	GE Current	—	—	2500 lm	**48PX95**	2500 lm	**48PX96**	2650 lm	**36UX11**	—	—

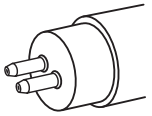


No. 416K91

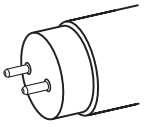
PHILIPS | Shat-R-Shield The Protective Lighting Company | GE current a Daintree company

Ballast-Bypass LED General Purpose Linear Light Bulbs (UL Type B)

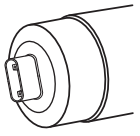
These bulbs do not require a ballast or driver to power the bulbs. They can be installed in compatible fluorescent lighting fixtures. They eliminate the risk of lighting outages due to faulty ballasts or drivers and avoid the expense of installing LED drivers when converting lighting systems. Ballast-bypass LED linear light bulbs require the fixtures to be wired into the building's power supply, so they are not suitable for facilities that have frequent power surges.



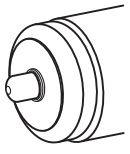
Miniature Bi-Pin (G5) Base



Medium Bi-Pin (G13) Base



Recessed Double Contact (R17d) Base



Single Pin (Fa8) Base

Wattage Equivalency	Watts	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base										
4 ft Nominal Length										
54W LFL	25 W	Philips	—	—	3300 lm	**54XL67**	3500 lm	**54XL68**	3500 lm	**54XL69**
—	25 W	Shat-R-Shield	—	—	3300 lm	**55VR38**	3500 lm	**55VR39**	3500 lm	**55VR41**
T8 Lamps, Medium Bi-Pin (G13) Base										
2 ft Nominal Length										
18W LFL	8.5W	Philips	1100 lm	**55GY73**	—	—	1100 lm	**55GY74**	1100 lm	**55GY75**
15W LFL	9 W	GE Current	1100 lm	**55GT99**	1100 lm	**55GU01**	1150 lm	**55GU02**	1200 lm	**55GU03**
3 ft Nominal Length										
25W LFL	11.5 W	Philips	1300 lm	**494P23**	1300 lm	**494P24**	1400 lm	**494P25**	1400 lm	**494P26**
	12 W	GE Current	1450 lm	**55GT95**	1500 lm	**55GT96**	1550 lm	**55GT97**	1550 lm	**55GT98**
4 ft Nominal Length										
32W LFL	9.9 W	Philips	—	—	1600 lm	**55YD30**	1650 lm	**55YD31**	1650 lm	**55YD32**
25W/28W/32W LFL	11 W	GE Current	1600 lm	**55XC95**	1650 lm	**55XC96**	1650 lm	**55XC97**	1700 lm	**55XC98**
—	12 W	Shat-R-Shield	—	—	—	—	1800 lm	**55VR44**	—	—
	12 W	Shat-R-Shield	—	—	—	—	1800 lm	**55VR45**	—	—
32W LFL	12.5 W	Philips	1700 lm	**449U98**	1700 lm	**449U99**	1800 lm	**449V01**	1800 lm	**449V02**
—	14 W	Shat-R-Shield	—	—	1700 lm	**55VR46**	1800 lm	**55VR47**	1800 lm	**55VR48**
32W LFL	14 W	GE Current	1700 lm	**494G94**	1750 lm	**494G95**	1800 lm	**494G96**	—	—
25W/28W/32W LFL	14 W	GE Current	—	—	—	—	—	—	1850 lm	**55GT94**
32W LFL	15W	Philips	—	—	—	—	1800 lm	**55GY51**	1800 lm	**55GY52**
—	15 W	Shat-R-Shield	—	—	—	—	2200 lm	**55VR51**	2200 lm	**55VR49**
	15 W	Shat-R-Shield	—	—	—	—	1800 lm	**55VR52**	1800 lm	**55VR50**
32W LFL	15 W	Philips	—	—	2000 lm	**416K91**	2100 lm	**416K92**	2100 lm	**416K93**
—	17 W	Shat-R-Shield	—	—	—	—	2200 lm	**55VR53**	2200 lm	**55VR54**
8 ft Nominal Length										
—	43 W	Shat-R-Shield	—	—	—	—	5500 lm	**55VR56**	5500 lm	**55VR55**
	43 W	Shat-R-Shield	—	—	—	—	—	—	5500 lm	**55VR57**
T8 Lamps, Recessed Double Contact (R17d) Base										
8 ft Nominal Length										
96W LFL	44 W	Philips	—	—	—	—	5400 lm	**54XL72**	5400 lm	**54XL73**
T8 Lamps, Single Pin (Fa8) Base										
8 ft Nominal Length										
75W LFL	34 W	Philips	—	—	—	—	4200 lm	**54XL70**	4200 lm	**54XL71**

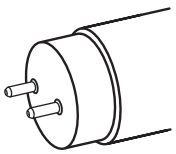
GE current a Daintree company PHILIPS

Separate-Driver LED General Purpose Linear Light Bulbs (UL Type C)

The bulb and driver are designed to work together, which helps these bulbs perform more reliably than other types of LED linear light bulbs. The driver also protects the bulb from power quality issues, making the bulbs suitable for warehouses and industrial sites that experience power issues but still wish to convert their lighting system. They install in fluorescent lighting fixtures that have been retrofitted with a compatible LED driver to power the bulbs.



No. 54XY54



Medium Bi-Pin (G13) Base

Wattage Equivalency	Watts	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.	6500K Lumens	6500K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base												
2 ft Nominal Length												
17W LFL	12 W	GE Current	1100/1450 lm	**55GU47**	1200/1550 lm	**55GU48**	1200/1550 lm	**55GU49**	1200/1550 lm	**55GU50**	—	—
3 ft Nominal Length												
25W LFL	18 W	GE Current	1550/1900/2250 lm	**55GU43**	1600/1950/2300 lm	**55GU44**	1600/1950/2300 lm	**55GU45**	1600/1950/2300 lm	**55GU46**	—	—
4 ft Nominal Length												
17W LFL	12 W	GE Current	—	—	—	—	—	—	—	—	1250/1600 lm	**55GU65**
32W LFL	15.5 W	Philips	—	—	2400 lm	**54XY54**	2500 lm	**54XY55**	2500 lm	**54XY56**	—	—
25W LFL	18 W	GE Current	—	—	—	—	—	—	—	—	1500/1800/2150 lm	**55GU60**
25W/28W/32W LFL	21 W	GE Current	—	—	1600/1950/2300/2700 lm	**55GU40**	—	—	1550/1900/2250/2650 lm	**55GU54**	—	—
	21 W	GE Current	1550/1900/2250/2650 lm	**55GU35**	1600/1950/2300/2700 lm	**55GU36**	1600/1950/2300/2700 lm	**55GU37**	1600/1950/2300/2700 lm	**55GU38**	1500/1800/2100/2500 lm	**55GU55**

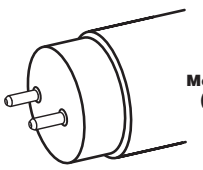
Hybrid LED General Purpose Linear Light Bulbs (UL Type A/B)

shat-r-shield INC. The Protective Lighting Company

These bulbs can be installed in a fluorescent lighting fixture that is powered by a ballast. If the fixture's ballast fails, the fixture can be wired directly into the building's power supply to power the bulb. Avoid the expense or replacing failed ballasts when switching lighting systems. Because users will need access to the lighting fixture to rewire it if the ballast fails, these bulbs are typically used in offices and other spaces where ceilings are 10 ft. high or less.



No. 55VR64



Medium Bi-Pin (G13) Base

Watts	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base				
4 ft. Nominal Length				
12W	1900 lm	**55VR64**	1900 lm	**55VR65**

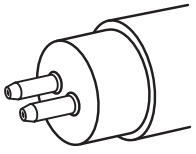
Hybrid LED General Purpose Linear Light Bulbs (UL Type A/C)

PHILIPS

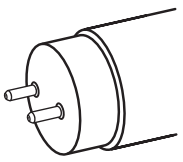
Install in a fluorescent lighting fixture that is powered by a ballast. If the fixture's ballast fails, the fixture can be retrofitted with a compatible LED driver that provides power to the bulb. This spreads out the cost of converting lighting systems from fluorescent technology to LED technology. Users must verify that the light bulbs are compatible with the ballast in the fixture they will be installed in.



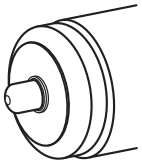
No. 53UG87



Miniature Bi-Pin (G5) Base



Medium Bi-Pin (G13) Base



Single Pin (Fa8) Base

Wattage Equivalency	Watts	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base									
2 ft. Nominal Length									
15W LFL	8W	1000 lm	**449U86**	1000 lm	**449U87**	1050 lm	**449U88**	1050 lm	**449U89**
3 ft. Nominal Length									
25W LFL	11W	1400 lm	**449U90**	1400 lm	**449U91**	1500 lm	**449U92**	1500 lm	**449U93**
4 ft. Nominal Length									
28W LFL	14W	2000 lm	**449U94**	2000 lm	**449U95**	2100 lm	**449U96**	2100 lm	**449U97**
54W LFL	24W	3500 lm	**53UG87**	3300 lm	**53UG88**	3500 lm	**53UG89**	3500 lm	**53UG90**
T8 Lamps, Medium Bi-Pin (G13) Base									
2 ft. Nominal Length									
18W LFL	7W	1100 lm	**52ZX59**	1100 lm	**52ZX60**	1150 lm	**52ZX61**	1150 lm	**52ZX62**
3 ft. Nominal Length									
25W LFL	8.5W	1300 lm	**32MX91**	1300 lm	**32MX92**	1400 lm	**32MX93**	1400 lm	**32MX94**
4 ft. Nominal Length									
32W LFL	9.5W	1500 lm	**406T70**	1500 lm	**406T71**	1600 lm	**406T72**	1600 lm	**406T73**
25W/28W/32W LFL	10W	1500 lm	**52ZX63**	1500 lm	**52ZX64**	1600 lm	**52ZX65**	1600 lm	**52ZX66**
	10W	—	—	1500 lm	**55GY70**	1600 lm	**55GY71**	1600 lm	**55GY72**
32W LFL	13W	2000 lm	**406T74**	2000 lm	**406T75**	2100 lm	**406T76**	2100 lm	**406T77**
	14W	2000 lm	**406T66**	2000 lm	**406T67**	2100 lm	**52ZX69**	2100 lm	**406T69**
	14W	—	—	2000 lm	**52ZX68**	2100 lm	**406T68**	2100 lm	**52ZX70**
T8 Lamps, Single Pin (Fa8) Base									
8 ft. Nominal Length									
64W LFL	30W	—	—	—	—	4200 lm	**494F13**	4200 lm	**494F14**
86W LFL	35W	4000 lm	**53UG83**	—	—	4200 lm	**53UG85**	—	—

Safety Sleeves & Tube Holders

LumaPro

Safety sleeves and tube holders keep glass shards and phosphors contained when linear light bulbs break, which eases cleanup and helps prevent injuries. They slip over LED or fluorescent linear bulbs to provide a shatterproof barrier that protects the bulb from impact, damage, dust, and moisture. Colored sleeves tint the light that's emitted from the bulb and can be used in ambient-lighting or accent-lighting applications as well as for marking safety areas, exits, or equipment.

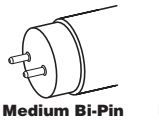
L	CLEAR Item No.	RED Item No.	YELLOW Item No.
T5 Lamps, Universal Pin, Outside fit			
20 9/16"	**4DZN4**	—	—
45 3/16"	**4DZN7**	**4DZN8**	**4DZN9**
T8 Lamps, Universal Pin, Inside fit			
48"	**1E522**	**1E518**	**1E520**
96"	**1E516**	**1E512**	—
T12 Lamps, RDC			
96"	**3VH26**	—	—
T12 Lamps, Universal Pin, Inside fit			
48"	**3V319**	**4VC49**	**4VC50**
96"	**3V320**	**4VC51**	**4VC52**



No. 3V319




Miniature Bi-Pin (G5) Base


Medium Bi-Pin (G13) Base


Recessed Double Contact (R17d) Base


Single Pin (Fa8) Base

GE current, a Daintree company | PHILIPS | shat-r-shield

Fluorescent General Purpose Linear Light Bulbs (No UL Type)

An economical choice for lighting large spaces. They have pin-type connectors and can be installed in compatible lighting fixtures that are powered by ballasts.

Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.	Case Qty.
T5 Bulb Shape, Miniature Bi-Pin (G5) Base						
½ ft Nominal Length						
4 W	4,100 K	100 lm	F4T5/CW/HO	GE Current	**4V594**	24
¾ ft Nominal Length						
6 W	4,100 K	235 lm	F6T5/CW/HO	GE Current	**2V805**	24
1 ft Nominal Length						
7.1 W	4,100 K	410 lm	F8T5/CW	Philips	**492Y01**	25
8 W	3,000 K	330 lm	F8T5/WW/HO	GE Current	**4V081**	24
8 W	4,100 K	400 lm	F8T5/CW	GE Current	**2V235**	24
2 ft Nominal Length						
13 W	3,000 K	720 lm	F13T5/WW/HO	GE Current	**1F420**	24
13 W	3,500 K	1,350 lm	F14T5/835/WM/ECO/HO	GE Current	**2EAG3**	40
13 W	4,100 K	850 lm	F13T5/CW/HO	GE Current	**2V806**	24
13 W	4,100 K	930 lm	F13T5/CW	Philips	**492X99**	25
13 W	4,100 K	1,350 lm	F14T5/841/WM/ECO/HO	GE Current	**2EAG4**	40
14 W	3,000 K	1,240 lm	F14W/T5/830/ECO	GE Current	**5AE12**	40
14 W	3,500 K	1,240 lm	F14W/T5/835/ECO	GE Current	**5AE13**	40
14 W	3,500 K	1,350 lm	F14T5/835/ALTO	Philips	**492X98**	40
14 W	4,100 K	1,240 lm	F14W/T5/841/ECO	GE Current	**5AE14**	40
14 W	4,100 K	1,350 lm	F14T5/841/ALTO	Philips	**492X97**	40
14 W	5,000 K	1,190 lm	F14T5/850/ECO	GE Current	**2EAC7**	40
14 W	6,500 K	1,250 lm	F14T5/865/ECO	GE Current	**2EAC8**	40
22.5 W	3,500 K	1,950 lm	F24T5/835/HO/ALTO	Philips	**492X94**	40
22.5 W	4,100 K	1,950 lm	F24T5/841/HO/ALTO	Philips	**492X95**	40
24 W	3,000 K	2,000 lm	F24T5/830/ECO/HO	GE Current	**5AE24**	40
24 W	3,500 K	2,000 lm	F24T5/835/ECO/HO	GE Current	**5AE25**	40
24 W	4,100 K	2,000 lm	F24T5/841/ECO/HO	GE Current	**5AE26**	40
24 W	5,000 K	1,900 lm	F24T5/850/ECO/HO	GE Current	**2EAE2**	40
24 W	6,500 K	1,880 lm	F24T5/865/ECO/HO	GE Current	**2EAE3**	40
2¾ ft Nominal Length						
20 W	3,000 K	2,100 lm	F21T5/830/WM/ECO/HO	GE Current	**2EAG7**	40
20 W	3,500 K	2,100 lm	F21T5/835/WM/ECO/HO	GE Current	**2EAG8**	40
20.6 W	4,100 K	2,100 lm	F21T5/841/ALTO	Philips	**492X96**	40
21 W	3,000 K	1,930 lm	F21T5/830/ECO	GE Current	**5AE15**	40
21 W	3,500 K	1,930 lm	F21T5/835/ECO	GE Current	**5AE16**	40
21 W	3,500 K	2,100 lm	F21T5/835/ALTO	Philips	**492Y22**	40
21 W	4,100 K	1,930 lm	F21T5/841/ECO	GE Current	**5AE17**	40
21 W	5,000 K	1,840 lm	F21T5/850/ECO	GE Current	**2EAC9**	40
21 W	6,500 K	1,790 lm	F21T5/865/ECO	GE Current	**2EAE1**	40
38 W	3,000 K	3,500 lm	F39T5/830/HO/ALTO	Philips	**492X91**	40
39 W	3,000 K	3,500 lm	F39T5/830/ECO/HO	GE Current	**5AE27**	40
39 W	3,500 K	3,500 lm	F39T5/835/ECO/HO	GE Current	**5AE28**	40
39 W	4,100 K	3,500 lm	F39T5/841/ECO/HO	GE Current	**5AE29**	40
39 W	6,500 K	3,330 lm	F39T5/865/ECO/HO	GE Current	**2EAF2**	40
3¼ ft Nominal Length						
26 W	3,000 K	2,900 lm	F28T5/830/WM/ECO/HO	GE Current	**2EAH3**	40
26 W	3,500 K	2,900 lm	F28WT5/835/WM/ECO	GE Current	**2EAH4**	40
26 W	4,100 K	2,900 lm	F28T5/841/WM/ECO/HO	GE Current	**2EAH5**	40
26 W	5,000 K	2,900 lm	F28T5/850/WM/ECO/HO	GE Current	**2EAH6**	40
28 W	3,000 K	2,660 lm	F28W/T5/830/ECO	GE Current	**5AE18**	40
28 W	3,500 K	2,660 lm	F28W/T5/835/ECO	GE Current	**5AE19**	40
28 W	3,500 K	2,810 lm	F28T5/835HL/ECO/HO	GE Current	**2EAJ5**	40
28 W	4,100 K	2,660 lm	F28W/T5/841/ECO	GE Current	**5AE20**	40
28 W	4,100 K	2,810 lm	F28T5/841HL/ECO/HO	GE Current	**2EAJ6**	40
28 W	5,000 K	2,530 lm	F28T5/850/ECO/HO	GE Current	**2EAE5**	40
28 W	6,500 K	2,530 lm	F28T5/865/ECO/HO	GE Current	**2EAE6**	40
51 W	3,000 K	5,000 lm	F54T5/830/WM/ECO/HO	GE Current	**2EAF6**	40
51 W	3,500 K	5,000 lm	—	GE Current	**2EAF7**	40
51 W	4,100 K	5,000 lm	F54T5/841/WM/ECO/HO	GE Current	**2EAF8**	40
51 W	5,000 K	4,790 lm	—	GE Current	**2EAF9**	40
51 W	6,500 K	4,750 lm	F54T5/865/WM/ECO/HO	GE Current	**2EAG1**	40
54 W	3,000 K	5,000 lm	F54T5/830/ECO/HO	GE Current	**5AE33**	40
54 W	3,500 K	3,900 lm	F54T5/835ECO/PRO	GE Current	**29UY27**	40
54 W	3,500 K	5,000 lm	F54T5/835/ECO/HO	GE Current	**5AE34**	40
54 W	3,500 K	5,000 lm	F54W/T5/XL/835/ECO	GE Current	**40D425**	40
54 W	4,100 K	3,900 lm	F54T5/841ECO/PRO	GE Current	**29UY28**	40
54 W	4,100 K	4,410 lm	F54T5/47W/841/ECO/WM/HO	GE Current	**6TWG5**	40
54 W	4,100 K	5,000 lm	F54T5W/841/ECO/HO	GE Current	**5AE35**	40
54 W	4,100 K	5,000 lm	F54W/T5/XL/841/ECO	GE Current	**40D426**	40
54 W	5,000 K	3,900 lm	F54T5/850ECO/PRO	GE Current	**29UY29**	40
54 W	5,000 K	4,230 lm	F54T5/47W/850/ECO/WM/HO	GE Current	**6TWG6**	40
54 W	5,000 K	4,800 lm	F54W/T5/850/ECO/HO	GE Current	**5AE36**	40
54 W	5,000 K	4,800 lm	F54W/T5/XL/850/ECO	GE Current	**40D427**	40
54 W	6,500 K	4,750 lm	F54T5/865/ECO/HO	GE Current	**5AE37**	40
54.1 W	3,500 K	5,000 lm	F54T5/835/HO/ALTO	Philips	**492X88**	40
54.1 W	4,100 K	5,000 lm	F54T5/841/HO/ALTO	Philips	**492X86**	40
4 ft Nominal Length						
27.9 W	3,500 K	2,900 lm	F28T5/835/ALTO	Philips	**492X92**	40
27.9 W	4,100 K	2,900 lm	F28T5/841/ALTO	Philips	**492X93**	40
54 W	4,100 K	5,000 lm	F54T5/841/HO/ALTO TG	Philips	**492X89**	40
54.1 W	5,000 K	4,800 lm	F54T5/850/HO/ALTO	Philips	**492X87**	40
54.1 W	5,000 K	4,800 lm	F54T5/850/HO/ALTO TG	Philips	**492X90**	40
4¾ ft Nominal Length						
35 W	3,000 K	3,350 lm	F35T5/830/ECO	GE Current	**5AE21**	40
35 W	3,500 K	3,350 lm	F35T5/835/ECO	GE Current	**5AE22**	40
35 W	4,100 K	3,650 lm	F35T5/841ECO	GE Current	**5AE23**	40
80 W	3,000 K	7,000 lm	F80T5/830/ECO	GE Current	**3GXP5**	40
80 W	3,500 K	7,000 lm	F80T5/835/ECO/HO	GE Current	**5AE39**	40
80 W	4,100 K	7,000 lm	F80T5/841/ECO/HO	GE Current	**5AE40**	40
T8 Bulb Shape, Medium Bi-Pin (G13) Base						
18" Nominal Length						
15 W	6,500 K	700 lm	F15T8/D	GE Current	**5V489**	24
15.5 W	4,100 K	830 lm	F15T8/CW	Philips	**492X80**	25
15.5 W	6,200 K	725 lm	F15T8/D	Philips	**492X79**	25
1½ ft Nominal Length						
15 W	4,100 K	825 lm	F15T8/CW	GE Current	**1V173**	24
2 ft Nominal Length						
15 W	3,500 K	1,130 lm	F17T8/XL/SPX35/WM/ECO	GE Current	**3GXP7**	24
15 W	4,100 K	1,130 lm	F17T8/XL/SPX41/WM/ECO	GE Current	**3GXP8**	24
15 W	5,000 K	1,105 lm	F17T8/XL/SPX50/WM/ECO	GE Current	**3GXP9**	24
17 W	3,000 K	1,260 lm	F17T8/SP30/ECO	GE Current	**6XT95**	24
17 W	3,000 K	1,280 lm	F17T8/SP*/ECO	GE Current	**6XT96**	24
17 W	3,000 K	1,350 lm	F17T8/XL/SPX30/ECO	GE Current	**4ZY27**	24
17 W	3,500 K	1,260 lm	F17T8/SP35/ECO	GE Current	**6XT97**	24
17 W	3,500 K	1,280 lm	F17T8/SPX35/ECO	GE Current	**6XT98**	24
17 W	3,500 K	1,350 lm	F17T8/XL/SPX35/ECO	GE Current	**4ZY28**	24
17 W	3,500 K	1,375 lm	F17T8/TL835/ALTO	Philips	**492X77**	30
17 W	3,500 K	1,375 lm	F17T8/TL835/PLUS/ALTO	Philips	**492Y09**	30
17 W	4,100 K	1,260 lm	F17T8/SP41/ECO	GE Current	**6XT99**	24
17 W	4,100 K	1,280 lm	F17T8/SPX41/ECO	GE Current	**6XV01**	24
17 W	4,100 K	1,350 lm	F17T8/XL/SPX41/ECO	GE Current	**4ZY29**	24
17 W	4,100 K	1,375 lm	F17T8/TL841/ALTO	Philips	**492X76**	30
17 W	4,100 K	1,375 lm	F17T8/TL841/PLUS/ALTO	Philips	**492Y10**	30
17 W	5,000 K	1,300 lm	F17T8/TL850/PLUS/ALTO	Philips	**492Y11**	30
17 W	5,000 K	1,350 lm	F17T8/XL/SPX50/ECO	GE Current	**4ZY36**	24
17 W	6,500 K	1,080 lm	F17T8/SXL/SPX65/ECO	GE Current	**53RH24**	24
17 W	6,500 K	1,125 lm	F17T8/XL/SPX65/ECO	GE Current	**3DY14**	24
17 W	6,500 K	1,300 lm	F17T8/TL865 PLUS/ALTO	Philips	**492X78**	30
18 W	4,100 K	1,190 lm	F24T8/CW/4	GE Current	**1F406**	24
20 W	6,500 K	1,690 lm	F25T8/SXL/SPX65/ECO	GE Current	**53RH25**	24
2½ ft Nominal Length						
19 W	4,100 K	1,350 lm	F28T8/CW/4	GE Current	**1F338**	24
19 W	4,100 K	1,375 lm	F30T8/CW/4	GE Current	**5V495**	24
3 ft Nominal Length						
22 W	4,100 K	1,810 lm	F25T8/XL/SPX41/WM/ECO	GE Current	**3GXR3**	24
25 W	3,000 K	1,970 lm	F25T8/SP30/ECO	GE Current	**6XV02**	24
25 W	3,000 K	2,040 lm	F25T8/SPX30/ECO	GE Current	**6XV03**	24
25 W	3,000 K	2,045 lm	F25T8/TL830/PLUS/ALTO	Philips	**492Y12**	30
25 W	3,500 K	1,970 lm	F25T8/SP35/ECO	GE Current	**6XV04**	24
25 W	3,500 K	2,040 lm	F25T8/SPX35/ECO	GE Current	**6XV05**	24
25 W	3,500 K	2,045 lm	F25T8/TL835/PLUS/ALTO	Philips	**492Y13**	30
25 W	3,500 K	2,045 lm	F25T8/TL835/ALTO	Philips	**492Y15**	30
25 W	3,500 K	2,050 lm	F25T8/XL/SPX35/ECO	GE Current	**4ZY31**	24
25 W	4,100 K	1,970 lm	F25T8/SP41/ECO	GE Current	**6XV06**	24
25 W	4,100 K	2,040 lm	F25T8/SPX41/ECO	GE Current	**6XV07**	24
25 W	4,100 K	2,045 lm	F25T8/TL841/ALTO	Philips	**492X74**	30
25 W	4,100 K	2,045 lm	F25T8/TL841/PLUS/ALTO	Philips	**492Y14**	30
25 W	4,100 K	2,150 lm	F25T8/XL/SPX41/ECO	GE Current	**4ZY32**	24
25 W	5,000 K	1,995 lm	F25T8/TL850/ALTO	Philips	**492Y17**	30
25 W	5,000 K	2,050 lm	F25T8/XL/SPX50/ECO	GE Current	**4ZY26**	24
25 W	6,500 K	1,755 lm	F25T8/XL/SPX65/ECO	GE Current	**3DY15**	24
25 W	Not Rated	2,150 lm	—	Shat-R-Shield	**55VR70**	30
30 W	4,100 K	2,150 lm	F30T8/CW	GE Current	**4V439**	24
30 W	4,100 K	2,200 lm	F30T8/CW ALTO	Philips	**492X75**	30
30 W	6,500 K	1,850 lm	F30T8/D	GE Current	**5V508**	24
4 ft Nominal Length						
25 W	3,500 K	2,350 lm	F32T8/25W/SPX35/ECO	GE Current	**2ETR7**	36
25 W	3,500 K	2,350 lm	F32T8/25W/SPP35/ECO	GE Current	**18L041**	36
25 W	3,500 K	2,400 lm	F32T8/ADV835/XLL ALTO 25W	Philips	**492X72**	30
25 W	3,500 K	2,400 lm	F32T825W/SXL/SPX35/ECO	GE Current	**29UY24**	36
25 W	3,500 K	2,425 lm	F32T8/ADV835/XEW/ALTO 25 Watt	Philips	**492Y18**	30
25 W	4,100 K	2,300 lm	F32T8/VEA841/XEW ALTO 25W	Philips	**492X73**	30
25 W	4,100 K	2,350 lm	F32T8/25W/SPX41/ECO	GE Current	**2ETR8**	36
25 W	4,100 K	2,350 lm	F32T8/25W/SPP41/ECO	GE Current	**18L042**	36
25 W	4,100 K	2,400 lm	F32T8/ADV841/X LL ALTO 25W	Philips	**492X70**	30
25 W	4,100 K	2,400 lm	F32T8/25W/SXL/SPX41/ECO	GE Current	**29UY25**	36
25 W	4,100 K	2,425 lm	F32T8/ADV841/XEW/ALTO 25 Watt	Philips	**492Y19**	30
25 W	5,000 K	2,350 lm	F32T8/25W/SPX50/ECO	GE Current	**2ETR9**	36
25 W	5,000 K	2,350 lm	F32T8/25W/SPP50/ECO	GE Current	**18L043**	36
25 W	5,000 K	2,350 lm	F32T8/ADV850/X LL ALTO 25W	Philips	**492X71**	30
25 W	5,000 K	2,400 lm	F32T8/ADV850/XEW/ALTO 25 Watt	Philips	**492Y20**	30
28 W	3,000 K	2,515 lm	F28T8/XL/SPX30/ECO	GE Current	**2ETU1**	36
28 W	3,500 K	2,515 lm	F28T8/XL/SPX35/ECO	GE Current	**2ETU2**	36
28 W	3,500 K	2,600 lm	F28T8/XL/SPP35/ECO	GE Current	**18L038**	36
28 W	3,500 K	2,600 lm	F28T8/SXL/SPX35/ECO	GE Current	**29UY21**	36
28 W	3,500 K	2,725 lm	F32T8/ADV835/EW/ALTO 28W	Philips	**492X64**	30
28 W	4,100 K	2,440 lm	F28T8/XL/SPP41/ECO	GE Current	**18L039**	36
28 W	4,100 K	2,515 lm	F28T8/XL/SPX41/ECO	GE Current	**2ETU3**	36
28 W	4,100 K	2,600 lm	F28T8/SXL/SPX41/ECO	GE Current	**29UY22**	36
28 W	4,100 K	2,600 lm	F32T8/VEA841/EW/ALTO 28W	Philips	**492X68**	30
28 W	4,100 K	2,645 lm	F32T8/ADV841/EW/ALTO 28W	Philips	**492X65**	30
28 W	4,100 K	2,650 lm	F32T8/ADV841/2XL/ALTO II 28W	Philips	**492X69**	30
28 W	5,000 K	2,440 lm	F28T8/XL/SPP50/ECO	GE Current	**18L040**	36
28 W	5,000 K	2,515 lm	F28T8/XL/SPX50/ECO	GE Current	**2ETU4**	36
28 W	5,000 K	2,595 lm	F32T8/ADV850/EW/ALTO 28W	Philips	**492X66**	30
28 W	5,000 K	2,600 lm	F28T8/SXL/SPX50/ECO	GE Current	**29UY23**	36
28 W	5,000 K	2,600 lm	F32T8/ADV850/2XL/ALTO II 28W	Philips	**492X67**	30
28 W	6,500 K	2,440 lm	F28T8/XLSPX65ECO	GE Current	**40D429**	36
32 W	3,000 K	2,775 lm	F32T8/TL930/ALTO	Philips	**492X53**	30
32 W	3,000 K	2,950 lm	F32T8/SPX30/ECO2	GE Current	**4PL14**	36
32 W	3,500 K	2,625 lm	F32T8/TL935/ALTO	Philips	**492X55**	30
32 W	3,500 K	2,625 lm	F32T8/TL935/ALTO TG	Philips	**492X84**	30
32 W	3,500 K	2,625 lm	—	Shat-R-Shield	**55VR66**	30
32 W	3,500 K	2,915 lm	F32T8/XL/SPX35/HL/ECO	GE Current	**3CA62**	36
32 W	3,500 K	2,950 lm	F32T8/SPP35/ECO	GE Current	**4PL15**	36
32 W	3,500 K	2,950 lm	F32T8/TL835 PLUS ALTO	Philips	**492X59**	30
32 W	3,500 K	3,000 lm	F32T8/ADV835 ALTO	Philips	**492X63**	30

CONTINUED

CONTINUED

GE current a Daintree company PHILIPS shat-r-shield INC. The Protective Lighting Company

Fluorescent General Purpose Linear Light Bulbs (No UL Type)

Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.	Case Qty.
32 W	4,100 K	2,600 lm	F32T8/TL941/ALTO	Philips	**492X54**	30
32 W	4,100 K	2,600 lm	F32T8/TL941/ALTO TG	Philips	**492X83**	30
32 W	4,100 K	2,915 lm	F32T8/XL/SPX41/HL/ECO	GE Current	**3CA64**	36
32 W	4,100 K	2,950 lm	F32T8/TL841 PLUS ALTO	Philips	**492X58**	30
32 W	4,100 K	2,950 lm	—	Shat-R-Shield	**55VR67**	30
32 W	4,100 K	3,000 lm	F32T8/SPP41/ECO	GE Current	**4PL16**	36
32 W	4,100 K	3,000 lm	F32T8/ADV841 ALTO	Philips	**492X61**	30
32 W	5,000 K	1,600 lm	F32T8/C50/ECO	GE Current	**46T405**	36
32 W	5,000 K	2,600 lm	F32T8/TL950/ALTO	Philips	**492X56**	30
32 W	5,000 K	2,600 lm	F32T8/TL950/ALTO TG	Philips	**492X82**	30
32 W	5,000 K	2,745 lm	F32T8/SXL/SPX50/ECO	GE Current	**2ETV9**	36
32 W	5,000 K	2,820 lm	F32T8/XL/SPX50/HL/ECO	GE Current	**4ZY40**	36
32 W	5,000 K	2,850 lm	F32T8/TL850 PLUS ALTO	Philips	**492X60**	30
32 W	5,000 K	2,950 lm	F32T8/SPP50/ECO	GE Current	**3VK11**	36
32 W	6,500 K	2,600 lm	F32T8/TL965/ALTO	Philips	**492X57**	30
32 W	6,500 K	2,600 lm	F32T8/TL965/ALTO TG	Philips	**492X85**	30
32 W	6,500 K	2,725 lm	F32T8/SPX65/ECO	GE Current	**3JJ79**	36
32 W	7,500 K	1,600 lm	F32T8/C75/ECO	GE Current	**46T406**	36
5 ft Nominal Length						
40 W	3,000 K	3,350 lm	F40T8/SPX30	GE Current	**6VR92**	24
40 W	3,500 K	3,350 lm	F40T8/SPX35	GE Current	**6VR57**	24
40 W	4,100 K	3,350 lm	F40T8/SPX41	GE Current	**6VR93**	24
T8 Bulb Shape, Recessed Double Contact (R17d) Base						
4 ft Nominal Length						
44 W	4,100 K	4,000 lm	F48T8/TL841/HO ALTO	Philips	**55DY77**	25
8 ft. Nominal Length						
86 W	3,500 K	8,200 lm	F96T8/SPX35/HO	GE Current	**2F954**	24
86 W	4,100 K	8,200 lm	F96T8/SPX41/HO	GE Current	**2F956**	24
86 W	4,100 K	8,200 lm	F96T8/TL841/HO/PLUS ALTO	Philips	**492X81**	25
86 W	5,000 K	8,200 lm	F96T8/SPX50/HO	GE Current	**2F958**	24
T8 Bulb Shape, Single Pin (Fa8) Base						
8 ft Nominal Length						
59 W	3,500 K	5,900 lm	F96T8/XL/SPX35/2	GE Current	**36H783**	24
59 W	3,500 K	5,900 lm	F968/TL835 PLUS ALTO	Philips	**55DY78**	25
59 W	3,500 K	5,900 lm	—	Shat-R-Shield	**55VR68**	25
59 W	3,500 K	5,950 lm	F96T8/XLSPX35WMP	GE Current	**429U42**	24
59 W	4,100 K	5,900 lm	F96T8/XL/SPX41/2	GE Current	**36H784**	24
59 W	4,100 K	5,900 lm	F96T8/TL841 PLUS ALTO	Philips	**55DY79**	25
59 W	5,000 K	5,900 lm	F96T8/XL/SPX50/2	GE Current	**36H785**	24
T12 Bulb Shape, Medium Bi-Pin (G13) Base						
1½ ft Nominal Length						
15 W	4,100 K	760 lm	F15T12/CW	GE Current	**2V429**	24
2 ft Nominal Length						
20 W	4,100 K	1,150 lm	F20T12/CW/ECO	GE Current	**6NB14**	24
20 W	6,500 K	945 lm	F20T12/D/ECO	GE Current	**6NB15**	24
3 ft Nominal Length						
30 W	4,100 K	1,910 lm	F30T12/CW/RS/ECO	GE Current	**6NB25**	24
34 W	4,100 K	2,200 lm	F34/CX41/WM/ECO	GE Current	**24W596**	30
40 W	4,100 K	1,500 lm	F34/CW/C/WM/ECO	GE Current	**30C506**	30
40 W	4,100 K	2,600 lm	F40T12/CW/ALTO	Philips	**492Y04**	30
40 W	4,100 K	2,600 lm	F40T12/CW/ALTO	Philips	**492Y07**	30
40 W	5,000 K	1,870 lm	F40T12/C50/ECO	GE Current	**6NB36**	30
40 W	5,000 K	2,545 lm	F40T12/C50/ALTO	Philips	**492Y08**	30
40 W	6,500 K	1,740 lm	F40T12/DX/ECO	GE Current	**6NB37**	30
40 W	6,500 K	2,325 lm	F40DX ALTO	Philips	**492Y05**	30
T12 Bulb Shape, Recessed Double Contact (R17d) Base						
3 ft Nominal Length						
50 W	4,100 K	2,440 lm	F36T12/CW/HO	GE Current	**4V529**	24
50 W	6,500 K	2,040 lm	F36T12/D/HO	GE Current	**5V533**	24
3½ ft Nominal Length						
55 W	4,100 K	3,200 lm	F42T12/CW/HO	GE Current	**4V530**	24
55 W	6,500 K	2,900 lm	F42T12/D/HO	GE Current	**5V536**	24
4 ft Nominal Length						
40 W	4,100 K	4,050 lm	F48T12/CW/HO	GE Current	**3V443**	24
45 W	6,500 K	2,350 lm	F40T12/C75 30PK	GE Current	**5V960**	30
60 W	4,100 K	4,050 lm	F48T12/CW/HO ALTO	Philips	**492Y06**	15
60 W	6,500 K	3,400 lm	F48T12/D/HO	GE Current	**4V924**	24
4¾ ft Nominal Length						
75 W	6,500 K	3,830 lm	F60T12/D/HO	GE Current	**4V931**	15
5 ft Nominal Length						
75 W	4,100 K	4,480 lm	F60T12/CW/HO	GE Current	**4V476**	15
5⅜ ft Nominal Length						
80 W	4,100 K	5,600 lm	F64T12/CW/HO	GE Current	**4V937**	15
80 W	6,500 K	4,130 lm	F64T12/D/WM/HO	GE Current	**4V938**	15
6 ft Nominal Length						
85 W	4,100 K	6,350 lm	F72T12/CW/HO	GE Current	**3V438**	15
7 ft Nominal Length						
100 W	4,100 K	7,460 lm	F84T12/CW/HO	GE Current	**4V445**	15
100 W	6,500 K	6,500 lm	F84T12/D/HO	GE Current	**4V446**	15
8 ft Nominal Length						
110 W	4,100 K	8,800 lm	F96T12/CW/HO-O ALTO	Philips	**492Y03**	15
T12 Bulb Shape, Single Pin (Fa8) Base						
4 ft Nominal Length						
40 W	4,100 K	2,875 lm	F48T12/CW	GE Current	**3V348**	24
5 ft Nominal Length						
50 W	4,100 K	3,600 lm	F60T12/CW	GE Current	**4V954**	15
6 ft Nominal Length						
55 W	4,100 K	4,500 lm	F72T12/CW	GE Current	**3V403**	15
55 W	6,500 K	3,800 lm	F72T12/D	GE Current	**4V773**	15
55 W	6,500 K	5,350 lm	F72T12/D/HO	GE Current	**4V444**	15
8 ft Nominal Length						
75 W	4,100 K	5,000 lm	F96T12/CW/ALTO	Philips	**492Y02**	15
75 W	6,500 K	4,500 lm	F96T12/DX/ALTO	Philips	**492Y21**	15

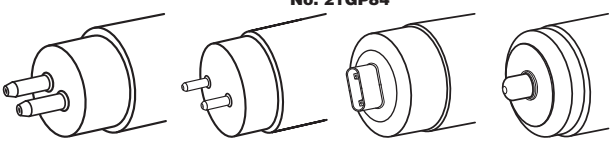
GE current a Daintree company shat-r-shield INC. The Protective Lighting Company PHILIPS

Fluorescent Shatter-Resistant Linear Light Bulbs

A surface coating keeps broken glass, mercury, and phosphors contained if the bulbs burst or break. This prevents safety hazards by keeping the contaminants from spreading into the surrounding area. The bulbs have bases on both ends and are installed in light fixtures to provide general area lighting in manufacturing plants, food-processing facilities, and other environments where product contamination must be avoided. They are also used in areas where the light bulbs may be exposed to shaking or impacts, such as railway systems and freight elevators.



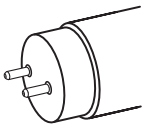
No. 21GP84



Miniature Bi-Pin (G5) Base | **Medium Bi-Pin (G13) Base** | **Recessed Double Contact (R17d) Base** | **Single Pin (Fa8) Base**

Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.	Case Qty.
T5 Bulb Shape, Miniature Bi-Pin (G5) Base						
2 ft Nominal Length						
24 W	3,500 K	1,950 lm	F24T5/835/HO/ECO/CVG/HO	GE Current	**2ETU6**	40
24 W	4,100 K	1,950 lm	F24T5/841/HO/ECO/CVG/HO	GE Current	**2ETU7**	40
3 ¾ ft Nominal Length						
28 W	3,500 K	2,813 lm	F28T5/835/ECO/CVG	GE Current	**1PDD7**	40
28 W	4,100 K	2,813 lm	F28T5/841/ECO/HO/CVG	GE Current	**1PDD8**	40
49 W	4,100 K	4,450 lm	—	Shat-R-Shield	**21GP81**	40
49 W	5,000 K	4,800 lm	—	Shat-R-Shield	**21GP82**	40
51 W	4,100 K	4,850 lm	F54T5/841/WM/ECO/CVG	GE Current	**4CEX3**	40
54 W	3,500 K	4,850 lm	F54T5/835/HO/ECO/CVG/HO	GE Current	**5TB63**	40
54 W	4,100 K	4,850 lm	F54T5/841/HO/ECO/CVG/HO	GE Current	**5TB64**	40
54 W	5,000 K	4,650 lm	F54T5/850/HO/ECO/CVG	GE Current	**1TGY9**	40
54 W	6,500 K	4,650 lm	F54T5/865/HO/ECO/CVG	GE Current	**1PDD4**	40
4 ft Nominal Length						
54 W	4,100 K	5,000 lm	F54T5/841/HO	Shat-R-Shield	**54YG46**	24
54 W	5,000 K	5,000 lm	F54T5/850/HO	Shat-R-Shield	**54YG47**	24
T8 Bulb Shape, Medium Bi-Pin (G13) Base						
2 ft Nominal Length						
17 W	3,500 K	1,220 lm	F17T8/SP35/ECO/CVG	GE Current	**4WW97**	24
17 W	3,500 K	1,242 lm	F17T8/SPX35/ECO/CVG	GE Current	**5XN83**	24
17 W	4,100 K	1,220 lm	F17T8/SP41/ECO/CVG	GE Current	**4WW98**	24
3 ft Nominal Length						
25 W	3,500 K	1,920 lm	F25T8/SP35/WM/ECO/CVG	GE Current	**4WW64**	24
25 W	3,500 K	1,970 lm	F25T8/SPX35/ECO/CVG	GE Current	**5XN89**	24
25 W	4,100 K	1,920 lm	F25T8/SP41/WM/ECO/CVG	GE Current	**4WW65**	24
25 W	4,100 K	1,970 lm	F25T8/SPX41/ECO/CVG	GE Current	**4YCR1**	24
4 ft Nominal Length						
25 W	4,100 K	2,328 lm	F32T8/25W/SPX41/CVG/ECO	GE Current	**6YEE0**	36
28 W	3,500 K	2,595 lm	F28T8/XL/SPX35/ECO/CVG	GE Current	**3DXN8**	36
28 W	4,100 K	2,595 lm	F28T8/XL/SPX41/ECO/CVG	GE Current	**3DXN9**	36
28 W	4,100 K	2,725 lm	F32T8/ADV841/EW/28W	Shat-R-Shield	**21GP85**	30
28 W	5,000 K	2,595 lm	F28T8/XL/SPX50/ECO/CVG	GE Current	**3DXP1**	36
28 W	5,000 K	2,675 lm	F32T8/ADV850/EW/28W	Shat-R-Shield	**21GP86**	30
32 W	3,000 K	2,690 lm	F32T8/SPX30/ECO/CVG	GE Current	**5XN96**	36
32 W	3,500 K	2,690 lm	F32T8/SPX35/ECO/CVG	GE Current	**5XN97**	36
32 W	4,100 K	2,600 lm	F32T8/TL941/Alto	Shat-R-Shield	**8PK79**	30
32 W	4,100 K	2,690 lm	F32T8/SPX41/ECO/CVG	GE Current	**5XN98**	36
32 W	5,000 K	2,600 lm	F32T8/TL950/Alto	Shat-R-Shield	**21GP84**	30
32 W	5,000 K	2,715 lm	S/B F3T8/SPX/ECO/CVG	GE Current	**4ZY43**	36
32 W	5,000 K	2,910 lm	F32T8/XL/SPX50/H/CVG	GE Current	**2EAE7**	36
32 W	6,500 K	2,900 lm	F32T8SPX65ECO/CVG	GE Current	**4ZY42**	36
5 ft Nominal Length						
40 W	3,500 K	3,250 lm	F40T8/SPX35/CVG	GE Current	**5XP01**	24
T8 Bulb Shape, Single Pin (Fa8) Base						
8 ft Nominal Length						
59 W	4,100 K	5,770 lm	F96T8/SPX41/CVG	GE Current	**4WW77**	24
59 W	4,100 K	5,900 lm	FO96/841/ECO (PK X 24)	Shat-R-Shield	**9UCN5**	24
T12 Bulb Shape, Medium Bi-Pin (G13) Base						
4 ft Nominal Length						
34 W	4,100 K	2,130 lm	F34/CX41WMECOCVG	GE Current	**4WX02**	30
40 W	3,500 K	2,550 lm	F40T12/ECO	Shat-R-Shield	**33H566**	30
40 W	4,100 K	2,600 lm	F40T12 CW SUPREME	Shat-R-Shield	**33H567**	30
40 W	6,500 K	1,687 lm	F40T12/DX/ECO/CVG	GE Current	**3DXP2**	30
T12 Bulb Shape, Recessed Double Contact (R17d) Base						
8 ft Nominal Length						
80 W	5,000 K	7,566 lm	F96T8/SCPX50/HO/CVG	GE Current	**13X838**	24
110 W	4,100 K	8,800 lm	F96T12/CW/HO/O	Shat-R-Shield	**21EK75**	15
T12 Bulb Shape, Single Pin (Fa8) Base						
8 ft. Nominal Length						
75 W	3,500 K	5,000 lm	F75T12/ECO	Shat-R-Shield	**33H568**	15
75 W	4,100 K	5,000 lm	F96T 12CW SUPREME	Shat-R-Shield	**33H569**	15





GE current a Daintree company PHILIPS

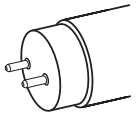
Plug & Play LED U-Bend Light Bulbs (UL Type A)

Install in fluorescent lighting fixtures powered by ballasts. Use of these bulbs avoids the expense of retrofitting lighting fixtures with LED drivers or wiring the bulbs into the building's power supply when switching lighting systems. Users must verify that the light bulbs are compatible with the ballasts in the fixtures they will be installed in.

Wattage Equivalency	Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base											
22 ½ in Length											
28W/32W Fluorescent	13 W	6 in	GE Current	—	—	—	—	1,900 lm	**48UV48**	1,900 lm	**48UV49**
32W Fluorescent	13 W	6 in	GE Current	—	—	1,850 lm	**246N07**	—	—	—	—
	13 W	6 in	Philips	2,000 lm	**53YZ39**	2,000 lm	**53YZ40**	2,100 lm	**53YZ41**	2,100 lm	**53YZ42**







GE current a Daintree company PHILIPS

Ballast-Bypass LED U-Bend Light Bulbs (UL Type B)

Ballast-bypass bulbs do not require a ballast or driver for power. Install in compatible fluorescent lighting fixtures. These bulbs eliminate the risk of lighting outages due to faulty ballasts or drivers and avoid the expense of installing LED drivers when converting lighting systems. They require the fixtures to be wired into the building's power supply, so they are not suitable for facilities that have frequent power surges.

Wattage Equivalency	Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base											
22½" Length											
32W	13W	1⅝"	GE Current	1750 lm	**55GU08**	1800 lm	**55GU09**	1850 lm	**55GU10**	—	—
Fluorescent	15.5W	6"	Philips	2000 lm	**494P27**	2000 lm	**494P28**	2100 lm	**494P29**	2100 lm	**494P30**
36" Length											
32W Fluorescent	13W	6"	GE Current	1800lm	**55GU04**	1850 lm	**55GU05**	1900 lm	**55GU06**	1900 lm	**55GU07**





PHILIPS GE current a Daintree company LumaPro

Fluorescent U-Bend Light Bulbs (no UL Type)

An economical choice for lighting large spaces, these bulbs have pin-type connectors and can be installed in compatible lighting fixtures with a ballast that provides current to the bulb.

Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base										
22 ½ in Length										
25 W	6 in	Philips	—	—	—	—	2,400 lm	**492Y28**	—	—
26 W	1 ⅝ in	GE Current	—	—	2,045 lm	**11Z444**	—	—	—	—
31 W	1 ⅝ in	Philips	—	—	2,750 lm	**492Y25**	2,750 lm	**492Y24**	—	—
	1 ⅝ in	GE Current	2,440 lm	**2ETT7**	2,440 lm	**2ETT8**	2,440 lm	**2ETT9**	—	—
	1 ⅝ in	LumaPro	2,700 lm	**5NPL7**	2,700 lm	**5NPL8**	2,700 lm	**5NPL9**	—	—
32 W	6 in	Philips	—	—	2,800 lm	**492Y26**	2,800 lm	**492Y23**	2,750 lm	**492Y27**
	6 in	GE Current	2,440 lm	**4HY84**	2,800 lm	**2ETT2**	2,800 lm	**2ETT3**	2,800 lm	**40D423**
	6 in	GE Current	2,800 lm	**40D420**	2,800 lm	**40D421**	2,440 lm	**4HY86**	—	—
	6 in	LumaPro	2,800 lm	**5NPL4**	2,800 lm	**5NPL5**	2,800 lm	**5NPL6**	—	—
	6 in	GE Current	—	—	2,440 lm	**4HY85**	2,800 lm	**40D422**	—	—
23 in Length										
28 W	6 in	GE Current	—	—	2,200 lm	**40D431**	2,200 lm	**40D432**	—	—
T12 Lamps, Medium Bi-Pin (G13) Base										
22 ½ in Length										
40 W	6 in	Philips	—	—	—	—	2,300 lm	**492Y29**	—	—





shat-r-shield INC. The Protective Lighting Company

Shatter-Resistant U-Bend Light Bulbs

A coating on the surface of the bulb keeps broken glass, mercury, and phosphors contained if the bulb bursts or breaks, preventing safety hazards. Install in compatible lighting fixtures to provide general area lighting in manufacturing plants, food-processing facilities, and other environments where product contamination must be avoided. Use in areas where the light bulbs may be exposed to shaking or impacts, such as railway systems and freight elevators.

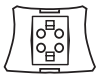
Watts	Bulb Bend Radius	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base							
22½" Length							
32W	6"	2800 lm	**6DZF9**	2800 lm	**6DZG0**	2800 lm	**6DZG1**
T12 Lamps, Medium Bi-Pin (G13) Base							
22½" Length							
40W	6"	—	—	2300 lm	**33H577**	2300 lm	**33H578**

Fluorescent Circline Light Bulbs

GE current a Daintree company PHILIPS

These compact bulbs consist of a tube that has been bent into a circle to provide even light distribution for general area lighting. They can fit into small spaces such as drum-style ceiling fixtures and magnifier lamps. Circline bulbs have bases with pins that plug into matching sockets on compatible light fixtures.

Watts	Color Temp.	Lumens	Brand	Designation	Item No.	Case Qty.
4-Pin (G10q) Base						
8 in Overall Bulb Dia.						
22 W	3,000 K	1,400 lm	GE Current	FC8T9	**2C827**	6
	4,100 K	1,100 lm	GE Current	FC8T9	**1V860**	12
		1,050 lm	Philips	FC8T9	**492Y30**	12
	3,000 K	1,150 lm	Philips	FC8T9	**492Y31**	12
	6,200 K	910 lm	Philips	FC8T9	**492Y32**	12
12 in Overall Bulb Dia.						
32 W	3,000 K	2,400 lm	GE Current	FC12T9	**2C836**	6
	4,100 K	1,950 lm	GE Current	FC12T9/CW	**1V776**	12
		1,800 lm	Philips	FC12T9	**492Y33**	12
	3,000 K	1,900 lm	Philips	FC12T9	**492Y34**	12
16 in Overall Bulb Dia.						
40 W	4,100 K	2,700 lm	GE Current	FC16T9	**1V880**	12
		2,500 lm	Philips	FC16T9	**492Y35**	12



4-Pin (G10q)



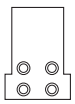
No. 1V860

2D Plug-In Light Bulbs

GE current a Daintree company

Two D-shaped tubes set side-by-side to provide even light distribution for general area lighting. Also called pretzel light bulbs and double-D light bulbs, 2D light bulbs are compact bulbs that can fit into small spaces such as drum-style ceiling fixtures and wallpack lights. They have plug-in bases with pins that fit into matching sockets on compatible light fixtures.

Light Technology	Wattage Equivalency	Watts	Base Type	2700K Lumens	2700K Item No.	3500K Lumens	3500K Item No.
2D Plug-In Light Bulbs							
Compact Fluorescent	75W INC	21 W	4-Pin (GR10Q-4)	1135 lm	**1K271**	1135 lm	**1K193**
	100W INC	28 W	4-Pin (GR10Q-4)	2150 lm	**1K201**	2150 lm	**1K189**
	180W INC	38 W	4-Pin (GR10Q-4)	3020 lm	**1K267**	3020 lm	**1K187**



4-Pin (GR10Q-4) Base



No. 1K187

PHILIPS GE current a Daintree company

PL-L Long Twin-Tube Plug-In Light Bulbs

PL-L long twin-tube plug-in light bulbs have an overall length of 8 in. or more. The bulbs have bases with four pins that plug into matching sockets on lighting fixtures. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of two long tubes. PL-L long twin-tube plug-in light bulbs are used in hall lights, office lights, and signs.



4-Pin (2G11) Base



No. 494D34

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
4-Pin Base, PL-L Plug-In Light Bulbs												
LED	40W CFL	16.5W	4-Pin (2G11)	Philips	2200 lm	**494D34**	2200 lm	**494D35**	2300 lm	**494D36** *	—	—
Compact Fluorescent	65W INC	18 W	4-Pin (2G11)	GE Current	1080 lm	**6V032**	1130 lm	**1E237**	1080 lm	**6V033**	—	—
	65W INC	18 W	4-Pin (2G11)	GE Current	—	—	1080 lm	**1E305**	—	—	—	—
LED	90W INC/22W CFL	17W	4-Pin (2G11)	GE Current	2150 lm	**48UV44**	2150 lm	**48UV45**	2200 lm	**48UV46** *	2200 lm	**48UV47**
Compact Fluorescent	100W INC	27 W	4-Pin (2G11)	GE Current	1620 lm	**6V035**	1620 lm	**1E259**	1620 lm	**6V036**	—	—
	100W INC	36.3 W	4-Pin (2G11)	Philips	3500 lm	**492Y98**	—	—	3500 lm	**492Y99**	—	—
	100W INC	40 W	4-Pin (2G11)	Philips	—	—	3500 lm	**492Y97**	—	—	—	—
	150W INC	25 W	4-Pin (2G11)	GE Current	2600 lm	**4FFC1**	2600 lm	**4FFC2**	2600 lm	**4FFC3**	—	—
	150W INC	40 W	4-Pin (2G11)	GE Current	—	—	—	—	—	—	3150 lm	**1X562**
	180W INC	39 W	4-Pin (2G11)	GE Current	2510 lm	**6V038**	2510 lm	**6V066**	2510 lm	**6V039**	—	—
	180W INC	40 W	4-Pin (2G11)	GE Current	2840 lm	**4VC25**	2840 lm	**4VC26**	2840 lm	**4VC27**	—	—
	200W INC	55 W	4-Pin (2G11)	GE Current	—	—	—	—	4080 lm	**6XV16**	—	—
	250W INC	55 W	4-Pin (2G11)	GE Current	4800 lm	**6EDY2**	4800 lm	**6XV15**	—	—	—	—

**** 4000K***

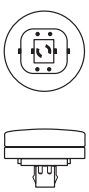
PHILIPS GE current a Daintree company

PL-S Short Twin-Tube Plug-In Light Bulbs

PL-S short twin-tube plug-in light bulbs have a maximum overall length of 7 in. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of two short tubes.The bulbs have bases with two or four pins that plug into matching sockets on lighting fixtures. PL-S short twin-tube plug-in light bulbs are used in emergency lighting, wall lights, and bulkheads.



2-Pin (GX23) Base



4-Pin GX24Q-5 Base



No. 494C78

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
2-Pin Wedge-Base, PL-S Plug-In Light Bulbs														
LED	13W LFL	5W	2-Pin (GX23)	Philips	520 lm	**494C78**	—	—	560 lm	**494C79**	—	—	—	—
	13W LFL	5W	2-Pin (GX23)	Philips	—	—	—	—	560 lm	**494C80**	—	—	—	—
Compact Fluorescent	20W INC	5 W	2-Pin (G23)	GE Current	220 lm	**1PGT1**	—	—	—	—	220 lm	**1PGT2**	—	—
	25W INC	7 W	2-Pin (G23)	GE Current	350 lm	**1PGT3**	—	—	350 lm	**1PGT4**	350 lm	**1PGT5**	—	—
	30W INC	9 W	2-Pin (G23)	GE Current	500 lm	**1PGT6**	—	—	500 lm	**1PGT7**	500 lm	**1PGT8**	—	—
	60W INC	13 W	2-Pin (GX23-2)	GE Current	685 lm	**1PGV3**	—	—	—	—	685 lm	**1PGV6**	—	—
	60W INC	13 W	2-Pin (GX23)	GE Current	710 lm	**1PGU8**	710 lm	**1PGU9**	710 lm	**1PGU5**	710 lm	**1PGU6**	710 lm	**1PGU7**
LED	60W INC/13 to 15W CFL	5W	2-Pin (GX23)	GE Current	500 lm	**54EL33**	530 lm	**54EL34**	545 lm	**54EL35**	560 lm	**54EL36** *	565 lm	**54EL37**
Compact Fluorescent	65W INC	18 W	2-Pin (G24D-2)	GE Current	980 lm	**1PGW6**	980 lm	**1PGW7**	980 lm	**1PGW8**	980 lm	**1PGW9**	—	—
	100W INC	13 W	2-Pin (GX23)	Philips	825 lm	**492Z06**	—	—	—	—	—	—	—	—
4-Pin Wedge-Base, PL-S Plug-In Light Bulbs														
Compact Fluorescent	200W INC	57 W	4-Pin (GX24Q-5)	GE Current	—	—	—	—	3700 lm	**3APJ3**	—	—	—	—
	250W INC	57 W	4-Pin (GX24Q-5)	GE Current	—	—	—	—	—	—	4300 lm	**3APJ4**	—	—

**** 4000K***



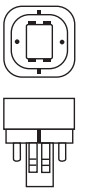
No. 54EL38



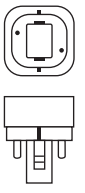
No. 492Z09



2-Pin (GX23) Base



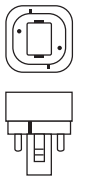
2-Pin (GX23-2) Base



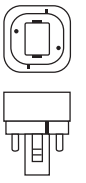
2-Pin (G24D-1) Base



2-Pin (G23) Base



2-Pin (G24D-2) Base



2-Pin (G24D-3) Base

PHILIPS GE current a Daintree company

PL-C Quad-Tube Plug-In Light Bulbs

PL-C quad-tube plug-in light bulbs have a maximum overall length of 9 in. They have a larger diameter and provide more light than PL-T triple-tube plug-in light bulbs. The bulbs have bases with two or four pins that plug into matching sockets on lighting fixtures. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of four tubes. PL-C quad-tube plug-in light bulbs are used in desk lamps, emergency light fixtures, downlights, sconces, corridor lights, office light fixtures, and retail store light fixtures.

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.
2-Pin Wedge-Base, PL-C Plug-In Light Bulbs												
LED	13W LFL	5W	2-Pin (GX23)	Philips	—	—	—	—	550 lm	**494C83**	580 lm	**494C84** *
	13W LFL	5W	2-Pin (GX23)	Philips	—	—	—	—	550 lm	**494C87**	—	—
Compact Fluorescent	60W INC	13 W	2-Pin (GX23-2)	GE Current	—	—	685 lm	**1PGV4**	685 lm	**1PGV5**	—	—
	60W INC	13 W	2-Pin (G24D-1)	GE Current	—	—	—	—	—	—	755 lm	**1PGW1**
LED	75W INC/18 to 20W CFL	10.5W	2-Pin (G24d)	GE Current	1000 lm	**54EL38**	1000 lm	**54EL39**	1050 lm	**54EL40**	1050 lm	**54EL41** *
Compact Fluorescent	100W INC	12.7 W	2-Pin (GX23-2)	Philips	—	—	—	—	—	—	800 lm	**492Z08**
	100W INC	13 W	2-Pin (GX23)	Philips	—	—	—	—	—	—	825 lm	**492Z07**
	100W INC	17.9 W	2-Pin (G24Q-2)	Philips	—	—	—	—	—	—	1200 lm	**492Z02**
	100W INC	18 W	2-Pin (G24Q-1)	Philips	—	—	—	—	1200 lm	**492Z01**	—	—
	100W INC	26 W	2-Pin (G24D-3)	GE Current	1460 lm	**1PGX9**	1460 lm	**1PGY1**	1460 lm	**1PGY2**	1460 lm	**1PGY3**
	100W INC	26.5 W	2-Pin (G24D-3)	Philips	1800 lm	**492Z03**	—	—	1800 lm	**492Z04**	1800 lm	**492Z05**
4-Pin Wedge-Base, PL-C Plug-In Light Bulbs												
LED	26W CFL	8.5W	4-Pin (G24q/GX24)	Philips	850 lm	**44ZA56**	900 lm	**44ZA55**	900 lm	**44ZA60**	950 lm	**44ZA57** *
	26W CFL	10.5W	4-Pin (G24q/GX24)	Philips	1200 lm	**44ZA63**	1200 lm	**44ZA58**	1200 lm	**44ZA59**	1300 lm	**44ZA54** *
Compact Fluorescent	60W INC	13 W	4-Pin (G24Q-1)	GE Current	755 lm	**1PGW2**	755 lm	**1PGW3**	755 lm	**1PGW4**	755 lm	**1PGW5**
	60W INC	13 W	4-Pin (GX24Q-1)	GE Current	755 lm	**1PGY8**	755 lm	**1PGY9**	755 lm	**1PGZ1**	755 lm	**1PGZ2**
	65W INC	18 W	4-Pin (G24Q-2)	GE Current	970 lm	**1PGX1**	970 lm	**1PGX2**	970 lm	**1PGX3**	970 lm	**1PGX4**
	100W INC	13 W	4-Pin (G24Q-1)	Philips	925 lm	**492Z09**	900 lm	**492Z10**	900 lm	**492Z11**	925 lm	**492Z12**
	100W INC	16.5 W	4-Pin (G24Q-1)	Philips	1200 lm	**492Z13**	—	—	—	—	—	—
	100W INC	16.5 W	4-Pin (G24Q-2)	Philips	—	—	—	—	1200 lm	**492Z14**	—	—
	100W INC	18 W	4-Pin (G24Q-2)	Philips	—	—	—	—	—	—	1200 lm	**492Z15**
	100W INC	26 W	4-Pin (G24Q-3)	GE Current	1530 lm	**1PGY4**	1530 lm	**1PGY5**	1530 lm	**1PGY6**	1530 lm	**1PGY7**
	100W INC	26 W	4-Pin (G24Q-3)	Philips	1800 lm	**492Z16**	1800 lm	**492Z17**	1800 lm	**492Z18**	1800 lm	**492Z19**

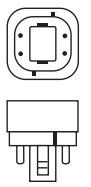
** 4000K*



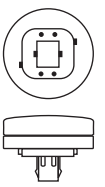
No. 460U53



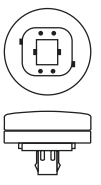
No. 492Z26



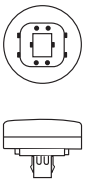
4-Pin (G24Q-3) Base



4-Pin (GX24Q-2) Base



4-Pin (GX24Q-3) Base



4-Pin (GX24Q-4) Base

GE current a Daintree company PHILIPS

PL-T Triple-Tube Plug-In Light Bulbs

PL-C triple-tube plug-in light bulbs have a maximum overall length of 7 in. They have a larger diameter and provide more light than PL-S short twin-tube plug-in light bulbs. The bulbs have bases with two or four pins that plug into matching sockets on lighting fixtures. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of three short tubes. PL-T triple-tube plug-in light bulbs are used in corridor light fixtures and office light fixtures.

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
4-Pin Wedge-Base, PL-T Plug-In Light Bulbs														
LED	26W CFL	9W	4-Pin (G24q/GX24)	GE Current	1100 lm	**460U49**	1200 lm	**460U50**	1200 lm	**460U51**	1200 lm	**460U52** *	—	—
	26W CFL	9W	4-Pin (G24q/GX24)	GE Current	1100 lm	**460U53**	1200 lm	**460U54**	1200 lm	**460U55**	1200 lm	**460U56** *	—	—
	26W CFL	18.5W	4-Pin (GX24q)	GE Current	1800 lm	**54EL25**	1850 lm	**54EL26**	1950 lm	**54EL27**	1950 lm	**54EL28** *	—	—
	26W CFL	18.5W	4-Pin (GX24q)	GE Current	1800 lm	**54EL29**	1850 lm	**54EL30**	1950 lm	**54EL31**	1950 lm	**54EL32** *	—	—
Compact Fluorescent	65W INC	18 W	4-Pin (GX24Q-2)	GE Current	1010 lm	**1PGZ3**	1010 lm	**1PGZ4**	1010 lm	**1PGZ5**	1010 lm	**1PGZ6**	—	—
	100W INC	26 W	4-Pin (GX24Q-3)	GE Current	1530 lm	**1PGZ7**	1530 lm	**1PGZ8**	1530 lm	**1PGZ9**	1530 lm	**1PHA1**	—	—
	100W INC	27 W	4-Pin (GX24Q-3)	Philips	1750 lm	**492Z20**	—	—	1750 lm	**492Z21**	1750 lm	**492Z22**	—	—
	100W INC	32 W	4-Pin (GX24Q-3)	Philips	—	—	—	—	—	—	2250 lm	**492Z26**	—	—
	100W INC	33 W	4-Pin (GX24Q-3)	Philips	2250 lm	**492Z23**	2250 lm	**492Z24**	2250 lm	**492Z25**	—	—	—	—
	100W INC	38 W	4-Pin (GX24Q-4)	Philips	—	—	3200 lm	**492Z27**	3200 lm	**492Z28**	3200 lm	**492Z29**	—	—
	150W INC	32 W	4-Pin (GX24Q-3)	GE Current	2040 lm	**1PHA2**	2040 lm	**1PHA3**	2040 lm	**1PHA4**	2040 lm	**1PHA5**	2040 lm	**22D159**
	190W INC	42 W	4-Pin (GX24Q-4)	GE Current	2690 lm	**1PHA6**	2690 lm	**1PHA7**	2690 lm	**1PHA8**	3200 lm	**1PHA9**	2690 lm	**22D160**

** 4000K*

General Purpose E26 Medium Screw-Base Light Bulbs

These standard light bulbs screw into an E26 socket in fixtures such as table lamps, recessed can lights, and track lights. They have a E26 medium screw base, which is the most commonly used base type for standard light bulbs.



Medium Screw (E26) Base



A19
No. 54YP54



Spiral
No. 451G01



A21
No. 435Y15

Light Technology	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
General Purpose E26 Medium Screw-Base Light Bulbs											
10-15W INC Wattage Equivalency											
LED	2W	2,700 K	125 lm	—	No	50,000 hr	A15	3 3/4 in	maxLED	**40HW98**	1
20W INC Wattage Equivalency											
Incandescent	20W	2800K	740 lm	Clear	Yes	5,000 hr	T6-1/2	5 5/8 in	LumaPro	**4RZX8**	1
25W INC Wattage Equivalency											
Incandescent	25W	2450K	235 lm	White	Yes	3,000 hr	A19	4 1/2 in	Philips	**492Z73**	2
	25W	2500K	210 lm	Soft White	Yes	2,500 hr	A19	4 1/4 in	GE Current	**1CWY5**	1
	25W	2800K	244 lm	Frosted	Yes	1,000 hr	T10	5 5/8 in	LumaPro	**4RZX4**	1
	25.2W	2800K	248 lm	Clear	Yes	1,000 hr	T10	5 5/8 in	LumaPro	**4RZV6**	1
30/70/100W INC Wattage Equivalency											
LED	13W	2,700 K	400/840/1400 lm	—	No	15,000 hr	A21	5 3/8 in	GE Current	**55XC75**	1
Incandescent	30/100W	2700K	300/960/1260 lm	White	Yes	1,750 hr	A21	5 3/8 in	Philips	**492Z75**	1
40W INC/9 to 11W CFL Wattage Equivalency											
LED	4.5W	2,000 K	350 lm	—	Yes	15,000 hr	A19	4 1/4 in	Philips	**55YD42**	1
	4.5W	2,200 K	420 lm	—	Yes	15,000 hr	A19	4 1/8 in	Shat-R-Shield	**55VR78**	1
	4.5W	2,700 K	470 lm	—	Yes	15,000 hr	A15	3 5/16 in	Shat-R-Shield	**55VR81**	1
	4.5W	2,700 K	450 lm	—	Yes	15,000 hr	A19	4 1/8 in	Shat-R-Shield	**55VR82**	1
	4.5W	2,700 K	420 lm	—	Yes	15,000 hr	A15	3 5/16 in	Shat-R-Shield	**55VR84**	1
	5W	3,000 K	450 lm	Anti-Glare Guard	No	30,000 hr	A15	3 1/2 in	Aero-Tech	**435Y11**	1
	5.5W	2,700 K	450 lm	Frosted	No	15,000 hr	A19	4 1/2 in	GE Current	**49ZC12**	3
	5.5W	5,000 K	450 lm	Frosted	No	15,000 hr	A19	4 1/2 in	GE Current	**49ZC13**	3
	6W	2,700 K	450 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**459V14**	2
	6W	2,700 K	450 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**482P31**	4
	6W	2,700 K	480 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE33**	1
	6W	3,000 K	480 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE34**	1
	6W	5,000 K	450 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**482P32**	4
	6W	5,000 K	480 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE35**	1
Compact Fluorescent	9 W	2,700 K	550 lm	—	No	10,000 hr	Spiral	3 3/8 in	Philips	**492Y85**	4
	11 W	2,700 K	580 lm	—	No	10,000 hr	A19	4 in	Aero-Tech	**23MD08**	1
	11 W	5,000 K	545 lm	—	No	15,000 hr	A19	3 3/4 in	Aero-Tech	**23MD12**	1
Halogen	29 W	2,800 K	430 lm	Soft White	Yes	1,000 hr	A19	4 1/2 in	GE Current	**13X829**	2
	29 W	2,810 K	380 lm	Clear	Yes	2,000 hr	A19	4 1/8 in	Philips	**492Z66**	4
	29 W	2,950 K	380 lm	Clear	Yes	1,000 hr	A19	4 1/8 in	Shat-R-Shield	**21GP87**	1
Incandescent	40W	2300K	320 lm	Frosted	Yes	3,500 hr	A19	4 3/8 in	Philips	**492Z72**	1
	40W	2800K	420 lm	Clear	Yes	1,000 hr	T10	5 5/8 in	LumaPro	**4RZV7**	1
	40W	2800K	415 lm	Frosted	Yes	1,000 hr	T10	5 5/8 in	LumaPro	**4RZX6**	1
	40W	2850K	405 lm	Frosted	Yes	1,000 hr	A15	3 1/2 in	Shat-R-Shield	**11D003**	1
50/100/150W INC Wattage Equivalency											
LED	19W	2,700 K	650/1300/2155 lm	—	No	15,000 hr	A21	5 3/8 in	GE Current	**55XC76**	1
Incandescent	50/100/150W	2775K	465 lm	White	Yes	1,750 hr	A21	4 3/8 in	Philips	**492Z76**	1
50W INC Wattage Equivalency											
Incandescent	50W	2700K	545 lm	Frosted	Yes	1,000 hr	A19	3 7/8 in	GE Current	**5V310**	1
60W INC/13 to 15W CFL Wattage Equivalency											
LED	7W	3,000 K	800 lm	Anti-Glare Guard	No	30,000 hr	A19	4 in	Aero-Tech	**435Y12**	1
	7W	3,000 K	800 lm	Frosted	No	30,000 hr	A19	4 in	Aero-Tech	**435Y13**	1
	7W	5,000 K	800 lm	Clear	No	30,000 hr	A19	4 in	Aero-Tech	**54XL64**	1
	7W	5,000 K	800 lm	Clear	No	30,000 hr	A19	4 in	Aero-Tech	**54XL65**	1
	8W	3,000 K	800 lm	Anti-Glare Guard	Yes	30,000 hr	A19	4 in	Aero-Tech	**435Y14**	1
	8W	3,000 K	800 lm	Clear	No	30,000 hr	A19	4 in	Aero-Tech	**54XL63**	1
	8.5W	2,700 K	800 lm	Frosted	No	11,000 hr	A19	4 1/4 in	Philips	**54YP54**	2
	8.5W	5,000 K	800 lm	Frosted	No	11,000 hr	A19	4 1/4 in	Philips	**54YP55**	2
	8.8W	2200 to 2700K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/4 in	Philips	**54YP52**	1
	8.8W	3,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/4 in	Philips	**54YP51**	1
	8.8W	5,000 K	800 lm	Frosted	No	11,000 hr	A19	4 1/4 in	Philips	**467P17**	1
	8.8W	5,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 3/8 in	Philips	**54YP53**	1
	9W	2200K/2500K/2700K	80/320/800 lm	Frosted	No	15,000 hr	A19	4 3/8 in	Philips	**52MU65**	1
	9W	2,700 K	800 lm	Frosted	No	15,000 hr	A19	4 1/2 in	GE Current	**49ZC14**	3
	9W	5,000 K	800 lm	Frosted	No	15,000 hr	A19	4 1/2 in	GE Current	**49ZC15**	3
	10W	2,700 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE36**	1
	10W	3,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE38**	1
	10W	4,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**407J24**	1
	10W	5,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**53CE39**	1
	10.5W	2,700 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**459V13**	2
	10.5W	2,700 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**482P33**	4
	10.5W	5,000 K	800 lm	Frosted	Yes	15,000 hr	A19	4 1/2 in	GE Current	**482P34**	4
Compact Fluorescent	13 W	2,700 K	900 lm	—	No	12,000 hr	Spiral	4 1/8 in	Satco	**451G01**	1
	13 W	2,700 K	900 lm	—	No	12,000 hr	Spiral	4 3/32 in	Philips	**492Y88**	4
	13 W	2,700 K	900 lm	—	No	10,000 hr	Spiral	4 1/8 in	Philips	**492Y92**	1
	13 W	2,700 K	925 lm	—	No	12,000 hr	Spiral	3 7/8 in	TCP	**9YKF0**	1
	13 W	4,100 K	900 lm	—	No	10,000 hr	Spiral	4 1/8 in	LumaPro	**452M04**	1
	13 W	4,100 K	900 lm	—	No	10,000 hr	Spiral	4 1/8 in	Philips	**492Y93**	1
	13 W	5,000 K	860 lm	—	No	10,000 hr	Spiral	4 1/8 in	Philips	**492Y94**	1
	13 W	6,500 K	860 lm	—	No	10,000 hr	Spiral	4 3/32 in	Philips	**492Y89**	4
	14 W	2,700 K	900 lm	—	No	10,000 hr	Spiral	4 1/2 in	Shat-R-Shield	**6DZF0**	1
	14 W	5,000 K	800 lm	—	No	15,000 hr	A19	4 1/4 in	Aero-Tech	**23MD13**	1
Halogen	43 W	2,920 K	750 lm	Clear	Yes	2,000 hr	A19	4 1/8 in	Philips	**492Z30**	2
	43 W	2,920 K	750 lm	Clear	Yes	1,000 hr	A19	4 1/8 in	Shat-R-Shield	**21GP88**	1
	53 W	2,840 K	850 lm	Clear	Yes	2,000 hr	A19	4 1/4 in	Philips	**492Z31**	4
Incandescent	60W	2610K	795 lm	Blue	Yes	1,000 hr	A19	4 1/4 in	Philips	**493A29**	1
	60W	2800K	420 lm	Clear	Yes	1,000 hr	T10	5 5/8 in	LumaPro	**4RZX7**	1

CONTINUED

CONTINUED

General Purpose E26 Medium Screw-Base Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
75W INC/18 to 20W CFL Wattage Equivalency											
LED	10W	3,000 K	1100 lm	Anti-Glare Guard	No	30,000 hr	A21	5 in	Aero-Tech	**435Y15**	1
	10W	3,000 K	1100 lm	Anti-Glare Guard	Yes	30,000 hr	A21	5 in	Aero-Tech	**435Y16**	1
	10W	3,000 K	1100 lm	Frosted	No	30,000 hr	A21	5 ⅜ in	Aero-Tech	**54XL59**	1
	12W	2,700 K	1100 lm	Frosted	No	15,000 hr	A19	5 ¼ in	GE Current	**49ZC16**	2
	12W	2,700 K	1100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP51**	1
	12W	3,000 K	1100 lm	Frosted	Yes	25,000 hr	A21	5 ⅜ in	GE Current	**44ZV41**	1
	12W	3,000 K	1100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP52**	1
	12W	5,000 K	1100 lm	Frosted	Yes	25,000 hr	A21	5 ⅜ in	GE Current	**44ZV45**	1
	12W	5,000 K	1100 lm	Frosted	No	15,000 hr	A19	5 ¼ in	GE Current	**49ZC17**	2
	12W	5,000 K	1100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP53**	1
	12.2W	2200 to 2700K	1100 lm	Frosted	Yes	15,000 hr	A21	5 ½ in	Philips	**54YP57**	1
Compact Fluorescent	18 W	2,700 K	1250 lm	—	No	10,000 hr	Spiral	⅛ in	Philips	**492Y87**	4
	18 W	2,700 K	1300 lm	—	No	12,000 hr	Spiral	4 in	TCP	**9YC43**	1
	19 W	2,700 K	1200 lm	—	No	10,000 hr	Spiral	4 ½ in	Shat-R-Shield	**6DZF1**	1
	20 W	5,000 K	1100 lm	—	No	12,000 hr	A19	4 ¾ in	Aero-Tech	**23MD14**	1
Halogen	53 W	2,950 K	1050 lm	Soft White	Yes	1,000 hr	A19	4 ½ in	GE Current	**13X831**	2
100W INC/23 to 26W CFL Wattage Equivalency											
LED	13.5W	2,700 K	1500 lm	Frosted	No	11,000 hr	A19	4 ¼ in	Philips	**54YP79**	2
	13.5W	5,000 K	1500 lm	Frosted	No	11,000 hr	A19	4 ¼ in	Philips	**54YP56**	2
	15W	2,700 K	1600 lm	Frosted	No	15,000 hr	A19	5 ¼ in	GE Current	**49ZC18**	2
	15W	2,700 K	1600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP54**	1
	15W	3,000 K	1600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP55**	1
	15W	5,000 K	1600 lm	Frosted	No	15,000 hr	Cylindrical	5 ¼ in	GE Current	**52XH97**	2
	15W	5,000 K	1600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	GE Current	**53DP56**	1
	16W	2200 to 2700K	1600 lm	Frosted	Yes	15,000 hr	A21	5 ½ in	Philips	**54YP58**	1
	16.6W	2,700 K	1500 lm	Frosted	No	11,000 hr	A21	5 ¼ in	Philips	**467P18**	1
	16.6W	5,000 K	1500 lm	Frosted	No	11,000 hr	A21	5 ¼ in	Philips	**467P19**	1
Compact Fluorescent	23 W	2,700 K	1600 lm	—	No	12,000 hr	Spiral	⅛ in	Philips	**492Y90**	4
	23 W	2,700 K	1650 lm	—	No	12,000 hr	Spiral	4 ½ in	TCP	**9YHK6**	1
	23 W	2,700 K	1600 lm	Coated	No	10,000 hr	Spiral	4 ⅛ in	Shat-R-Shield	**6DZF2**	1
	23 W	4,100 K	1600 lm	—	No	10,000 hr	Spiral	4 ⅜ in	Philips	**492Y95**	1
	23 W	5,000 K	1600 lm	—	No	10,000 hr	Spiral	4 ⅜ in	Philips	**492Y96**	1
	23 W	6,500 K	1600 lm	—	No	10,000 hr	Spiral	5 ¼ in	LumaPro	**452M12**	1
	23 W	6,500 K	1600 lm	—	No	10,000 hr	Spiral	⅛ in	Philips	**492Y91**	4
	25 W	2,700 K	1600 lm	—	No	10,000 hr	A19	5 in	Aero-Tech	**23MD11**	1
	26 W	4,100 K	1800 lm	—	No	10,000 hr	Spiral	⅛ in	Philips	**492Y86**	1
	27 W	2,700 K	1850 lm	—	No	12,000 hr	Spiral	5 in	TCP	**9YG24**	1
Halogen	72 W	3,000 K	1490 lm	Clear	Yes	2,000 hr	A19	4 ⅛ in	Philips	**492Z32**	2
Incandescent	100W	2700K	1050 lm	Clear	Yes	1,000 hr	A21	4 ⅜ in	Philips	**493A36**	1
150W INC Wattage Equivalency											
LED	20W	6,500 K	2300 lm	Frosted	No	25,000 hr	A30	9 in	Philips	**449V03**	1
Compact Fluorescent	42 W	2,700 K	2850 lm	—	No	12,000 hr	Spiral	5 ¾ in	TCP	**9XZY7**	1
Incandescent	150W	2700K	2205 lm	Clear	Yes	1,000 hr	A21	5 ¾ in	Philips	**492Z92**	1
	150W	2800K	2160 lm	Frosted	Yes	1,000 hr	PS25	7 in	GE Current	**2PLK5**	1
	150W	2900K	2680 lm	Soft White	Yes	750 hr	A21	5 ⅜ in	GE Current	**1F384**	1
200W INC Wattage Equivalency											
LED	24W	6,500 K	3000 lm	Frosted	No	25,000 hr	A35	9 ⅝ in	Philips	**449V04**	1
Incandescent	200W	2800K	3405 lm	Soft White	Yes	750 hr	A21	5 ⅜ in	GE Current	**2PLJ8**	1
	200W	2800K	3000 lm	Frosted	Yes	1,000 hr	PS30	8 ⅛ in	GE Current	**2PLK6**	1
	200W	2800K	2780 lm	Frosted	Yes	2,500 hr	A21	5 ⅜ in	GE Current	**5V922**	1
	200W	2800K	3780 lm	Clear	Yes	750 hr	A21	5 ⅜ in	GE Current	**6V137**	1
300W INC Wattage Equivalency											
LED	42W	6,500 K	5000 lm	Frosted	No	25,000 hr	A40	12 ¼ in	Philips	**449V05**	1
Incandescent	300W	2700K	6280 lm	Clear	Yes	750 hr	PS25	4 ½ in	Philips	**493A30**	1
500W INC Wattage Equivalency											
Incandescent	500W	3200K	13,650 lm	Frosted	Yes	60 hr	PS25	6 ⅛ in	Eiko	**6DZJ5**	1

General Purpose E12 Candelabra and E39 Mogul Screw-Base Light Bulbs

E12 CANDELABRA SCREW-BASE LIGHT BULBS

Compact candelabra screw-base light bulbs fit into tight spaces in appliances, bath and vanity fixtures, and accent lighting fixtures. Their E12 screw base has a 12mm dia. and screws into a standard E12 socket.

E39 MOGUL SCREW-BASE LIGHT BULBS

Mogul screw-base light bulbs are used in large jobsite lights and other industrial fixtures. They have an E39 screw base with a 39mm dia. and screw into standard E39 sockets.



Candelabra Screw (E12) Base



Mogul Screw (E39) Base



A15
No. 435Y10



PS25
No. 492Z93



A23
No. 55VR19



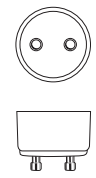
PS35
No. 5V060

Light Technology	Watts	Color Temp.	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
General Purpose E12 Candelabra Screw-Base Light Bulbs										
40W INC/9 to 11W CFL Wattage Equivalency										
LED	5W	3,000 K	450 lm	No	30,000 hr	A15	3 ½ in	Aero-Tech	**435Y10**	1
Compact Fluorescent	11 W	2,700 K	580 lm	No	8,000 hr	A19	4 in	Aero-Tech	**20LP82**	1
General Purpose E39 Mogul Screw-Base Light Bulbs										
100/200/300W INC Wattage Equivalency										
Incandescent	100/200/300W	2700K	1250/2650/3900 lm	Yes	1,000 hr	PS25	4 ¼ in	Philips	**492Z93**	1
300W INC/175W HID Wattage Equivalency										
LED	35W	3,000 K	4400 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR19**	1
	35W	4,000 K	4400 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR20**	1
	35W	5,000 K	4690 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR21**	1
300W INC Wattage Equivalency										
Incandescent	300W	2800K	5200 lm	Yes	1,000 hr	PS35	9 ⅜ in	GE Current	**5V051**	1
	300W	2800K	5150 lm	Yes	1,000 hr	PS35	9 ⅜ in	GE Current	**5V054**	1
500W INC Wattage Equivalency										
Incandescent	500W	2900K	10,850 lm	No	1,000 hr	PS35	9 ⅜ in	GE Current	**5V060**	1
1000W INC Wattage Equivalency										
Incandescent	1000W	2700K	23,740 lm	Yes	1,000 hr	PS52	13 in	GE Current	**5V849**	1

MaxLite · PHILIPS · GE current, a Daintree company · LumaPro

General Purpose GU24-Base Light Bulbs

The GU24 base on these light bulbs pushes into a GU24 socket and then twists slightly to lock it in place. General purpose GU24-base light bulbs are used in new construction projects, restaurants, hotels, and other residential or commercial facilities that are required to use energy-efficient CFL and LED bulbs.



2-Pin (GU24) Base



A19
No. 32MX42

Light Technology	Watts	Color Temp.	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
General Purpose GU24-Base Light Bulbs										
40W INC/9 to 11W CFL Wattage Equivalency										
	6W	2,700 K	480 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX42**	1
LED	6W	3,000 K	480 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX43**	1
	6W	4,000 K	480 lm	Yes	25,000 hr	A19	4 ½ in	maxLED	**32MX44**	1
60W INC/13 to 15W CFL Wattage Equivalency										
	8.8W	3,000 K	800 lm	Yes	15,000 hr	A19	4 3⁄16 in	Philips	**55YD45**	1
	9W	2,700 K	800 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX45**	1
LED	9W	3,000 K	800 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX46**	1
	9W	4,000 K	800 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX47**	1
	10W	2,700 K	800 lm	Yes	15,000 hr	A19	4 3⁄8 in	GE Current	**55XC74**	1
Compact Fluorescent	13 W	4,100 K	900 lm	No	10,000 hr	Spiral	3 ¾ in	LumaPro	**452M09**	1
75W INC/18 to 20W CFL Wattage Equivalency										
	11W	2,700 K	1100 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX48**	1
LED	11W	3,000 K	1100 lm	Yes	25,000 hr	A19	4 ½ in	maxLED	**32MX49**	1
	11W	4,000 K	1100 lm	Yes	25,000 hr	A19	4 ¼ in	maxLED	**32MX50**	1
100W INC/23 to 26W CFL Wattage Equivalency										
	15W	2,700 K	1600 lm	Yes	25,000 hr	A19	4 ¾ in	maxLED	**32ZN18**	1
LED	15W	3,000 K	1600 lm	Yes	25,000 hr	A19	4 ¾ in	maxLED	**32ZN19**	1
	15W	4,000 K	1600 lm	Yes	25,000 hr	A19	4 ¾ in	maxLED	**32ZN20**	1
	16W	3,000 K	1600 lm	Yes	15,000 hr	A21	5 ½ in	Philips	**55YD44**	1

PHILIPS · LumaPro · GE current, a Daintree company · AERO-TECH 20,000 hours · SATCO | NUVO

Appliance Light Bulbs

Appliance light bulbs are sized to install into ovens, refrigerators, ceiling fans, and other household appliances.



Candelabra Screw (E12) Base



Intermediate Screw (E17) Base



Medium Screw (E26) Base



A15
No. 54YP50



S11
No. 4RZZ1



A15
No. 22MX10

Light Technology	Wattage Equivalency	Watts	Color Temp.	Bulb Finish	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
Appliance Light Bulbs												
Candelabra Screw (E12)												
LED	40W INC	5.5W	2200 to 2700K	Clear	500 lm	Yes	15,000 hr	A15	3 ¾ in	Philips	**54YP50**	1
Intermediate Screw (E17)												
	10W INC	10W	2800K	Frosted	79 lm	Yes	1,500 hr	S11	2 3⁄8 in	LumaPro	**4RZZ1**	1
Incandescent	40W INC	40W	2800K	Clear	440 lm	No	500 hr	S11	2 ¼ in	Philips	**493A28**	1
	40W INC	40W	2800K	Clear	440 lm	Yes	500 hr	S11	2 3⁄8 in	LumaPro	**4RZZ3**	1
	40W INC	40W	2800K	Frosted	440 lm	Yes	500 hr	S11	2 3⁄8 in	LumaPro	**4RZZ4**	1
Medium Screw (E26)												
	7.5W INC	7.5W	2800K	Clear	53 lm	Yes	1,400 hr	S11	2 ¼ in	LumaPro	**4RZY1**	1
	7.5W INC	7.5W	2800K	White	39 lm	Yes	1,400 hr	S11	2 ¼ in	LumaPro	**4RZZ2**	1
Incandescent	15W INC	15W	2500K	Soft White	100 lm	Yes	2,500 hr	A15	3 ½ in	GE Current	**1CWY4**	1
	15W INC	15W	2500K	Frosted	115 lm	Yes	2,500 hr	A15	3 ½ in	GE Current	**2V512**	1
	15W INC	15W	2300K	White	115 lm	Yes	3,000 hr	A15	4 3⁄8 in	Philips	**492Z70**	2
	15W INC	15W	2800K	Clear	120 lm	Yes	400 hr	S11	2 ¼ in	LumaPro	**4RZY9**	1
	40W INC/9 to 11W CFL	4W	2,700 K	Frosted	300 lm	Yes	15,000 hr	A15	3 ½ in	GE Current	**22MX10**	1
LED	40W INC/9 to 11W CFL	4W	2,700 K	Clear	300 lm	Yes	15,000 hr	A15	3 ½ in	GE Current	**22MX11**	1
	40W INC/9 to 11W CFL	5W	3,000 K	Frosted	450 lm	No	30,000 hr	A15	3 ½ in	Aero-Tech	**54XL58**	1
	40W INC	5.5W	2200 to 2700K	Clear	500 lm	Yes	15,000 hr	A15	3 ¾ in	Philips	**54YP49**	1
	40W INC	40W	2700K	Frosted	355 lm	Yes	1,500 hr	A15	3 ½ in	GE Current	**1MM76**	1
	40W INC	40W	2600K	Clear	405 lm	Yes	1,500 hr	A15	3 ½ in	GE Current	**3VA53**	2
Incandescent	40W INC	40W	2700K	Clear	300 lm	Yes	2,500 hr	A15	3 ½ in	Satco	**451F91**	1
	40W INC	40W	2800K	Clear	400 lm	Yes	1,750 hr	A15	4 3⁄8 in	Philips	**492Z71**	1
	40W INC	40W	2600K	Clear	415 lm	Yes	1,500 hr	A15	3 ½ in	GE Current	**5V755**	1

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.



- Scan the Item Number
- See Your Price
- Place Your Order. Done



Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**


B10
No. 54UA13



B11
No. 435Y19


B13
No. 492Z79


C7
No. 16X202


C9-1/2
No. 24W617


Candelabra Screw (E12) Base


Medium Screw (E26) Base

GE current a Daintree company | AERO-TECH 20,000 hours* | MaxLite A NEW WAVE OF LIGHT

PHILIPS | SATCO | NUVO

Candle-Shaped Decorative Light Bulbs

Candle-shaped light bulbs have a slim, tapered shape with a rounded point. They are sized to install into chandeliers and other decorative lighting fixtures where space is tight.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
B10 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	220 lm	Clear	Yes	1,500 hr	3 ¾ in	GE Current	**1E339**	1
	25W INC	25W	2800K	180 lm	Clear	Yes	9,000 hr	3 ½ in	Aero-Tech	**24W614**	1
LED	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	—	Yes	15,000 hr	4 in	Maxlite	**54UA13**	1
Incandescent	40W INC	40W	2500K	370 lm	Clear	Yes	1,500 hr	3 ¾ in	GE Current	**1E337**	1
	40W INC	40W	2800K	400 lm	Clear	Yes	9,000 hr	3 ½ in	Aero-Tech	**24W619**	1
B11 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	150 lm	Clear	Yes	2,000 hr	4 ⅜ in	Philips	**492Z77**	2
LED	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP67**	1
	40W INC/9 to 11W CFL	5W	3,000 K	350	Clear	No	30,000 hr	3 ¾ in	Aero-Tech	**435Y19**	1
	40W INC/9 to 11W CFL	5W	3,000 K	400 lm	Clear	Yes	30,000 hr	3 ¾ in	Aero-Tech	**435Y20**	1
Incandescent	40W INC	40W	2500K	300 lm	Clear	Yes	2,000 hr	4 in	Philips	**492Z78**	2
Halogen	40W INC	40 W	2,900 K	540 lm	Clear	Yes	3,000 hr	4 in	Philips	**493A37**	2
Incandescent	60W INC	60W	2700K	550 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A32**	2
B11 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP70**	1
	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP72**	1
B13 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	25W INC	25W	2500K	170 lm	Clear	Yes	1,500 hr	4 ⅝ in	GE Current	**3VA47**	2
	40W INC	40W	2550K	300 lm	Clear	Yes	2,000 hr	4 in	Philips	**492Z79**	2
C7 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	4W INC	4W	2700K	16 lm	Clear	Yes	3,000 hr	4 ½ in	Philips	**493A21**	4
	7W INC	7W	2700K	45 lm	Clear	Yes	3,000 hr	6 ¼ in	Philips	**492Z85**	4
	7W INC	7W	2700K	46 lm	Clear	Yes	3,000 hr	2 ⅛ in	GE Current	**4V508**	1
	7W INC	7W	2700K	46 lm	Clear	Yes	3,000 hr	2 ⅛ in	GE Current	**5V141**	1
	7W INC	7W	2700K	35 lm	Clear	Yes	3,000 hr	2 ⅛ in	Satco	**451F90**	1
LED	10W INC/3W CFL	0.5W	2,300 K	3 lm	Frosted	No	25,000 hr	2 in	GE Current	**6CEC2**	2
	10W INC/3W CFL	0.5W	2,700 K	3 lm	Clear	No	25,000 hr	2 in	GE Current	**16X202**	2
Incandescent	15W INC	15W	2700K	105 lm	Clear	No	2,000 hr	2 in	Philips	**493A27**	2
C9-1/2 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	40W INC	40W	2800K	330 lm	Clear	Yes	9,000 hr	3 ¾ in	Aero-Tech	**24W617**	1


BA9
No. 492Z86


BA11
No. 54YP68


BA12
No. 55YD47


CA9-1/2
No. 451F81


CA10
No. 451F80


CA11
No. 48VG67


Candelabra Screw (E12) Base


Medium Screw (E26) Base

PHILIPS

SATCO | NUVO | GE current a Daintree company

Angled Candle-Shaped Decorative Light Bulbs

The angled tip on these candle-shaped light bulbs resembles a flickering candle flame. The bulbs have a slim, tapered and fit into chandeliers and other decorative lighting fixtures with limited space for bulbs.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BA9 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	150 lm	Clear	Yes	2,000 hr	2 ¼ in	Philips	**492Z86**	4
	25W INC	25W	2700K	150 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A31**	2
	40W INC	40W	2500K	300 lm	Clear	Yes	2,000 hr	4 ⅛ in	Philips	**492Z87**	4
	40W INC	40W	2700K	300 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A33**	2
	60W INC	60W	2700K	550 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A34**	4
BA11 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
LED	25W INC/7W CFL	2W	2200 to 2700K	180 lm	Clear	Yes	15,000 hr	3 ⅝ in	Philips	**54YP68**	1
	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Clear	Yes	15,000 hr	3 ⅝ in	Philips	**54YP71**	1
	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Clear	Yes	15,000 hr	4 ⅜ in	Philips	**54YP73**	1
	75W INC/18 to 20W CFL	6.6W	2200 to 2700K	600 lm	—	Yes	15,000 hr	4 ⅜ in	Philips	**55YD46**	1
BA12 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W INC/18 to 20W CFL	6.6W	2200 to 2700K	600 lm	—	Yes	15,000 hr	4 ⅜ in	Philips	**55YD47**	1
CA9-1/2 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	40W INC	40W	2700K	370 lm	Clear	Yes	2,500 hr	3 ⅛ in	Satco	**451F81**	1
CA10 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	210 lm	Clear	Yes	3,000 hr	4 ⅛ in	GE Current	**1C514**	1
	25W INC	25W	2500K	220 lm	Clear	Yes	1,500 hr	4 ⅛ in	GE Current	**1E343**	1
	40W INC	40W	2500K	360 lm	Clear	Yes	3,000 hr	4 ⅛ in	GE Current	**10E061**	4
	40W INC	40W	2500K	370 lm	Clear	Yes	1,500 hr	4 ⅛ in	GE Current	**29YL23**	4
CA10 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	40W INC	40W	2700K	360 lm	Clear	Yes	2,500 hr	4 ¼ in	Satco	**451F80**	1
CA11 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
LED	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	Clear	Yes	15,000 hr	4 ⅜ in	GE Current	**49EM10**	1
	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	—	Yes	15,000 hr	4 ¼ in	GE Current	**55XC81**	2
	60W INC/13 to 15W CFL	5W	2,700 K	500 lm	—	Yes	15,000 hr	4 ¼ in	GE Current	**55XC82**	2
CA11 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	Clear	Yes	15,000 hr	4 ¼ in	GE Current	**48VG67**	1
	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	—	Yes	15,000 hr	4 ¼ in	GE Current	**55XC79**	2
	60W INC/13 to 15W CFL	5W	2,700 K	500 lm	—	Yes	15,000 hr	4 ¼ in	GE Current	**55XC80**	2
F15 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Clear	Yes	15,000 hr	8 ⅛ in	Philips	**54YP74**	1

GE current a Daintree company PHILIPS
SATCO | NUVO

Globe-Shaped Decorative Light Bulbs

The spherical shape of these light bulbs creates visual interest when installed in bath and vanity fixtures.



Candelabra Screw (E12) Base



Medium Screw (E26) Base



G16.5
No. 55XC86



G25
No. 55YD50



G40
No. 1C259

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
G16.5 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
LED	25W INC/7W CFL	3W	2,700 K	250 lm	—	Yes	15,000 hr	3 in	GE Current	**55XC85**	2
	25W INC/7W CFL	3W	2,700 K	250 lm	—	Yes	15,000 hr	3 in	GE Current	**55XC86**	2
Incandescent	25W INC	25W	2500K	220 lm	Clear	Yes	1,500 hr	3 in	GE Current	**6V665**	1
LED	40W INC/9 to 11W CFL	3.8W	2200 to 2700K	350 lm	—	Yes	15,000 hr	3 3/8 in	Philips	**55YD51**	1
G16.5 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC	3.8W	2200 to 2700K	350 lm	—	Yes	15,000 hr	—	Philips	**55YD52**	1
G25 Bulb Shape; Medium Screw (E26) Bulb Base Type											
	25W INC/7W CFL	5W	2,700 K	500 lm	—	Yes	15,000 hr	4 1/4 in	GE Current	**55XC84**	2
	40W INC/9 to 11W CFL	3.8W	2200 to 2700K	350 lm	—	Yes	15,000 hr	4 3/4 in	Philips	**55YD50**	1
LED	40W INC/9 to 11W CFL	4W	2,700 K	350 lm	—	Yes	15,000 hr	4 1/4 in	GE Current	**55XC83**	2
	40W INC/9 to 11W CFL	4.5W	2,700 K	350 lm	Frosted	Yes	15,000 hr	4 1/4 in	GE Current	**36GJ34**	1
	40W INC/9 to 11W CFL	4.5W	2,700 K	350 lm	Frosted	Yes	15,000 hr	4 3/8 in	GE Current	**482P36**	3
	40W INC	40W	2600K	410 lm	Clear	Yes	2,000 hr	5 1/2 in	Philips	**492Z89**	1
	40W INC	40W	2600K	410 lm	Clear	Yes	2,000 hr	4 1/4 in	Philips	**492Z90**	3
Incandescent	40W INC	40W	2600K	370 lm	Frosted	Yes	1,400 hr	4 1/2 in	GE Current	**4V412**	1
	40W INC	40W	2600K	410 lm	Clear	Yes	1,400 hr	4 1/2 in	GE Current	**4V414**	1
	40W INC	40W	2700K	320 lm	White	Yes	3,000 hr	4 3/8 in	Satco	**451F86**	1
Halogen	40W INC	40 W	2,800 K	550 lm	Clear	Yes	2,500 hr	4 1/2 in	Philips	**492Z67**	1
	40W INC	40 W	2,800 K	500 lm	Frosted	Yes	2,500 hr	4 1/2 in	Philips	**492Z68**	1
G40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	60W INC	60W	2600K	660 lm	Frosted	Yes	2,500 hr	6 7/8 in	GE Current	**1C259**	1

shat-r-shield INC. The Protective Lighting Company PHILIPS
MaxLite A NEW WAVE OF LIGHT GE current a Daintree company

Vintage Filament-Style Decorative Light Bulbs

The LED filaments on these bulbs mimic the look of the ornate filaments in early incandescent light bulbs.



Candelabra Screw (E12) Base



Medium Screw (E26) Base



A15
No. 54YP49



A19
No. 54UA14



B11
No. 54YP70



CA11
No. 55XC82



ST19
No. 54UA16



T20
No. 55VR77

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Dimmable	Rated Life	Overall Length	Base Type	Brand	Item No.	Pkg. Qty.
A15 Bulb Shape											
	40W INC/9 to 11W CFL	4.5W	2,700 K	470 lm	Yes	15,000 hr	3 5/16 in	Medium Screw (E26)	Shat-R-Shield	**55VR81**	1
LED	40W INC	5.5W	2200 to 2700K	500 lm	Yes	15,000 hr	3 3/4 in	Candelabra Screw (E12)	Philips	**54YP50**	1
	40W INC	5.5W	2200 to 2700K	500 lm	Yes	15,000 hr	3 3/4 in	Medium Screw (E26)	Philips	**54YP49**	1
A19 Bulb Shape											
	40W INC/9 to 11W CFL	4.5W	2,000 K	350 lm	Yes	15,000 hr	4 1/4 in	Medium Screw (E26)	Philips	**55YD42**	1
LED	40W INC	4.5W	2,200 K	420 lm	Yes	15,000 hr	4 1/8 in	Medium Screw (E26)	Shat-R-Shield	**55VR78**	1
	60W INC/13 to 15W CFL	7W	2,700 K	800 lm	Yes	15,000 hr	4 in	Medium Screw (E26)	Maxlite	**54UA14**	1
B10 Bulb Shape											
LED	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	Yes	15,000 hr	4 in	Candelabra Screw (E12)	Maxlite	**54UA13**	1
B11 Bulb Shape											
	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Yes	15,000 hr	4 1/2 in	Candelabra Screw (E12)	Philips	**54YP67**	1
LED	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Yes	15,000 hr	4 1/2 in	Medium Screw (E26)	Philips	**54YP70**	1
	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Yes	15,000 hr	4 1/2 in	Medium Screw (E26)	Philips	**54YP72**	1
BA11 Bulb Shape											
	25W INC/7W CFL	2W	2200 to 2700K	180 lm	Yes	15,000 hr	3 5/8 in	Candelabra Screw (E12)	Philips	**54YP68**	1
LED	40W INC/9 to 11W CFL	3.3W	2200 to 2700K	300 lm	Yes	15,000 hr	3 5/8 in	Candelabra Screw (E12)	Philips	**54YP71**	1
	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Yes	15,000 hr	4 3/8 in	Candelabra Screw (E12)	Philips	**54YP73**	1
	75W INC/18 to 20W CFL	6.6W	2200 to 2700K	600 lm	Yes	15,000 hr	4 3/8 in	Candelabra Screw (E12)	Philips	**55YD46**	1
BA12 Bulb Shape											
LED	75W INC/18 to 20W CFL	6.6W	2200 to 2700K	600 lm	Yes	15,000 hr	4 3/8 in	Medium Screw (E26)	Philips	**55YD47**	1
CA11 Bulb Shape											
	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	Yes	15,000 hr	4 1/4 in	Medium Screw (E26)	GE Current	**55XC79**	2
LED	40W INC/9 to 11W CFL	4W	2,700 K	300 lm	Yes	15,000 hr	4 1/4 in	Candelabra Screw (E12)	GE Current	**55XC81**	2
	60W INC/13 to 15W CFL	5W	2,700 K	500 lm	Yes	15,000 hr	4 1/4 in	Medium Screw (E26)	GE Current	**55XC80**	2
	60W INC/13 to 15W CFL	5W	2,700 K	500 lm	Yes	15,000 hr	4 1/4 in	Candelabra Screw (E12)	GE Current	**55XC82**	2
F15 Bulb Shape											
LED	60W INC/13 to 15W CFL	5.5W	2200 to 2700K	500 lm	Yes	15,000 hr	8 1/8 in	Medium Screw (E26)	Philips	**54YP74**	1
G16.5 Bulb Shape											
	25W INC/7W CFL	3W	2,700 K	250 lm	Yes	15,000 hr	3 in	Candelabra Screw (E12)	GE Current	**55XC85**	2
LED	40W INC/9 to 11W CFL	3.8W	2200 to 2700K	350 lm	Yes	15,000 hr	3 3/8 in	Candelabra Screw (E12)	Philips	**55YD51**	1
	40W INC	3.8W	2200 to 2700K	350 lm	Yes	15,000 hr	—	Medium Screw (E26)	Philips	**55YD52**	1
G25 Bulb Shape											
LED	25W INC/7W CFL	5W	2,700 K	500 lm	Yes	15,000 hr	4 1/4 in	Medium Screw (E26)	GE Current	**55XC84**	2
	40W INC/9 to 11W CFL	3.8W	2200 to 2700K	350 lm	Yes	15,000 hr	4 3/4 in	Medium Screw (E26)	Philips	**55YD50**	1
ST19 Bulb Shape											
	40W INC/9 to 11W CFL	5W	2,000 K	350 lm	Yes	15,000 hr	5 7/16 in	Medium Screw (E26)	Philips	**55YD43**	1
LED	40W INC/9 to 11W CFL	5W	2,200 K	320 lm	Yes	15,000 hr	5 3/4 in	Medium Screw (E26)	Maxlite	**54UA16**	1
	60W INC/13 to 15W CFL	5W	2,700 K	200 lm	Yes	15,000 hr	5 in	Medium Screw (E26)	GE Current	**55XC87**	1
T20 Bulb Shape											
LED	60W INC/13 to 15W CFL	6.5W	2,200 K	600 lm	Yes	15,000 hr	5 7/16 in	Medium Screw (E26)	Shat-R-Shield	**55VR77**	1
	60W INC/13 to 15W CFL	6.5W	2,700 K	800 lm	Yes	15,000 hr	5 7/16 in	Medium Screw (E26)	Shat-R-Shield	**55VR76**	1



A19
No. 54YP63



PAR38
No. 448K86



Medium Screw (E26) Base

PHILIPS

Colored Decorative Light Bulbs

The colored lenses on these bulbs tint the color of the light emitted by the bulb. Commonly known as party lights, colored decorative light bulbs are used for celebrating seasons and holidays and as mood lighting for parties and events.

Light Technology	Wattage Equivalency	Watts	Light Appearance	Dimmable	Rated Life	Overall Length	Item No.	Pkg. Qty.
A19 Bulb Shape; Medium Screw (E26) Bulb Base Type								
LED	60W INC	8W	Blue	No	10,000 hr.	4¼"	**54YP59**	1
	60W INC	8W	Yellow	No	10,000 hr.	4¼"	**54YP60**	1
	60W INC	8W	Purple	No	10,000 hr.	4¼"	**54YP61**	1
	60W INC	8W	Red	No	10,000 hr.	4¼"	**54YP62**	1
	60W INC	8W	Green	No	10,000 hr.	4¼"	**54YP63**	1
	60W INC	8W	Orange	No	10,000 hr.	4¼"	**54YP64**	1
PAR38 Bulb Shape; Medium Screw (E26) Bulb Base Type								
LED	90W HAL	13.5W	Blue	No	10,000 hr.	5⅜"	**448K86**	1
	90W HAL	13.5W	Yellow	No	10,000 hr.	5⅜"	**448K87**	1
	90W HAL	13.5W	Green	No	10,000 hr.	5⅜"	**448K88**	1
	90W HAL	13.5W	Red	No	10,000 hr.	5⅜"	**448K89**	1



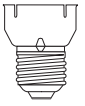
BR40
No. 33H575



R40
No. 451F96



Medium Screw (E26) Base



Medium Skirted (E26/50x39) Base



Mogul Screw (E39) Base

shat-r-shield INC. The Protective Lighting Company
GE current a Daintree company
SATCO | NUVO

Heat Lamp Reflector Light Bulbs

The wide beam of infrared light cast by these bulbs also emits radiant heat. Heat lamp reflector bulbs are used for warming animal enclosures, drying chemicals and paint, heating bathrooms, preventing pipes or equipment from freezing, and keeping food warm in food-service areas.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BR40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	125W INC	125W	2700K	—	Clear	No	5,000 hr	6 ½ in	Shat-R-Shield	**33H575**	1
	250W INC	250W	2500K	2150 lm	Clear	Yes	5,000 hr	6 ⅝ in	GE Current	**1E295**	1
	250W INC	250W	2500K	2200 lm	Clear	Yes	5,000 hr	6 ⅝ in	GE Current	**4V673**	1
	250W INC	250W	2700K	1200 lm	Clear	No	5,000 hr	6 ½ in	Shat-R-Shield	**11D011**	1
	250W INC	250W	No Rated Color Temp, Red	—	Red	Yes	5,000 hr	6 ⅝ in	GE Current	**2V294**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	125W INC	125W	2700K	300 lm	Clear	Yes	6,000 hr	6 ½ in	Satco	**451F96**	1
	250W INC	250W	2700K	1200 lm	—	No	5,000 hr	6 ½ in	Shat-R-Shield	**55VR71**	1
	250W INC	250W	No Rated Color Temp, Red	Not Rated, Heat Lamp	Red	No	5,000 hr	6 ½ in	Shat-R-Shield	**30ZX22**	1
R40 Bulb Shape; Medium Skirted (E26/50x39) Bulb Base Type											
Incandescent	250W INC	250W	3000K	Not Rated, Heat Lamp	Frosted	Yes	5,000 hr	7 ½ in	GE Current	**1F422**	1
R40 Bulb Shape; Medium Skirted (E26/53x39) Bulb Base Type											
Incandescent	375W INC	375W	2700K	2700 lm	Clear	Yes	5,000 hr	7 ½ in	GE Current	**5V211**	1
R40 Bulb Shape; Mogul Screw (E39) Bulb Base Type											
Incandescent	500W INC	500W	2700K	5500 lm	Frosted	Yes	3,000 hr	7 ¼ in	GE Current	**5V157**	1



BR30
No. 493V05



PAR38
No. 55VR74



R40
No. 493V06



Medium Screw (E26) Base

shat-r-shield INC. The Protective Lighting Company

Shatter-Resistant Spot, Reflector & Flood Light Bulbs

The surface coating on these bulbs keeps broken glass, mercury, and phosphors contained if the bulbs burst or break, preventing the contaminants from spreading into the surrounding area. The bulbs have a reflective inner surface that intensifies their light output. Shatter-resistant bulbs are used in manufacturing plants, food-processing facilities, and other settings where product contamination must be avoided. They are also used in areas where the light bulbs may be exposed to shaking or impacts.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Item No.	Pkg. Qty.
BR30 Bulb Shape; Medium Screw (E26) Bulb Base Type										
LED	5W INC	9W	5000K	750 lm	115°	Yes	25,000 hr.	5¼"	**493V05**	1
Halogen	65W INC	50W	2680K	590 lm	30°	Yes	2500 hr.	5¼"	**55VR72**	1
PAR38 Bulb Shape; Medium Screw (E26) Bulb Base Type										
Halogen	75W INC	60W	2850K	1100 lm	30°	Yes	2000 hr.	5⅜"	**55VR74**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type										
LED	85W INC	16.5W	5000K	1200 lm	115°	Yes	25,000 hr.	6½"	**493V06**	1

PAR Light Bulbs

PHILIPS GE current a Daintree company

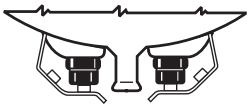
Parabolic aluminized reflector (PAR) light bulbs are used for indoor and outdoor accent lighting, such as high-lighting flagpoles or building facades, interior track lighting, illuminating walls, security lighting, stage lighting, and sign lighting.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
PAR16 Bulb Shape; 2-Pin (GU10) Bulb Base Type											
LED	50W HAL	4.5W	2200 to 2700K	380 lm	35 °	Yes	25,000 hr	2 ⅞ in	Philips	**45HE82**	1
PAR16 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	60W INC	60 W	2,850 K	485 lm	40 °	Yes	2,000 hr	2 ⅞ in	GE Current	**1TJV3**	1
	60W INC	60 W	2,900 K	580 lm	27 °	Yes	2,500 hr	3 ⅛ in	Philips	**492Z42**	1
PAR20 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	39W INC	39 W	2,900 K	480 lm	25 °	Yes	1,000 hr	3 ⅜ in	Philips	**492Z43**	1
	39W INC	39 W	2,900 K	480 lm	10 °	Yes	1,000 hr	3 ⅜ in	Philips	**492Z44**	1
LED	50W HAL	7W	2200 to 2700K	500 lm	25 °	Yes	25,000 hr	3 ⅜ in	Philips	**462F19**	1
	50W HAL	7W	2200 to 2700K	500 lm	40 °	Yes	25,000 hr	3 ⅜ in	Philips	**462F21**	1
	50W HAL	7W	2,700 K	500 lm	35 °	Yes	25,000 hr	3 ½ in	GE Current	**45CM40**	1
	50W HAL	7W	2,700 K	500 lm	20 °	Yes	25,000 hr	3 ½ in	GE Current	**45NY24**	1
	50W INC	7W	2,700 K	500 lm	35 °	Yes	15,000 hr	3 ½ in	GE Current	**482P42**	1
	50W HAL	7W	3,000 K	520 lm	20 °	Yes	25,000 hr	3 ½ in	GE Current	**45AU69**	1
	50W HAL	7W	3,000 K	520 lm	20 °	Yes	25,000 hr	3 ½ in	GE Current	**45NY25**	1
	50W HAL	7W	3,000 K	520 lm	20 °	Yes	25,000 hr	3 ½ in	GE Current	**45NY26**	1
	50W HAL	7W	3,000 K	500 lm	25 °	Yes	25,000 hr	3 ⅜ in	Philips	**462F20**	1
	50W HAL	7W	3,000 K	500 lm	40 °	Yes	25,000 hr	3 ⅜ in	Philips	**462F22**	1
Halogen	50W INC	38 W	2,850 K	490 lm	25 °	Yes	1,500 hr	3 ⅛ in	GE Current	**39P428**	1
	50W INC	38 W	2,850 K	490 lm	10 °	Yes	1,500 hr	3 ⅛ in	GE Current	**39P429**	1
PAR30 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	50W INC	38 W	2,850 K	580 lm	25 °	Yes	1,500 hr	3 ⅝ in	GE Current	**39P421**	1
	50W INC	38 W	2,850 K	580 lm	10 °	Yes	1,500 hr	3 ⅝ in	GE Current	**39P422**	1
LED	75W INC	12W	2,700 K	850 lm	40 °	Yes	25,000 hr	8 ½ in	GE Current	**246M70**	1
	75W HAL	12W	2,700 K	1000 lm	25 °	Yes	25,000 hr	3 ¾ in	GE Current	**45NY16**	1
	75W HAL	12W	2,700 K	1000 lm	40 °	Yes	25,000 hr	3 ¾ in	GE Current	**45NY17**	1
	75W INC	12W	2,700 K	900 lm	35 °	Yes	15,000 hr	3 ¾ in	GE Current	**482P38**	2
	75W INC	12W	3,000 K	900 lm	40 °	Yes	25,000 hr	9 in	GE Current	**246M68**	1
	75W HAL	12W	3,000 K	950 lm	35 °	Yes	25,000 hr	3 ¾ in	GE Current	**45AU63**	1
	75W HAL	12W	3,000 K	1050 lm	25 °	Yes	25,000 hr	3 ¾ in	GE Current	**45NY18**	1
	75W HAL	12W	3,000 K	1050 lm	40 °	Yes	25,000 hr	3 ¾ in	GE Current	**45NY19**	1
PAR30L Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W HAL	10W	2,700 K	800 lm	25 °	Yes	25,000 hr	4 ⅝ in	Philips	**52ZX75**	1
	75W HAL	10W	2,700 K	800 lm	40 °	Yes	25,000 hr	4 ⅝ in	Philips	**52ZX77**	1
	75W HAL	10W	3,000 K	850 lm	25 °	Yes	25,000 hr	4 ⅝ in	Philips	**52ZX76**	1
	75W HAL	10W	3,000 K	850 lm	40 °	Yes	25,000 hr	4 ⅝ in	Philips	**52ZX78**	1
	75W INC	12W	2,700 K	850 lm	40 °	Yes	25,000 hr	8 ½ in	GE Current	**246M73**	1
	75W HAL	12W	2,700 K	1000 lm	40 °	Yes	25,000 hr	4 ¾ in	GE Current	**45NY21**	1
	75W INC	12W	2,700 K	1050 lm	25 °	Yes	25,000 hr	4 ¾ in	GE Current	**55XC93**	1
	75W INC	12W	3,000 K	900 lm	40 °	Yes	25,000 hr	9 in	GE Current	**246M72**	1
	75W HAL	12W	3,000 K	950 lm	35 °	Yes	25,000 hr	4 ⅝ in	GE Current	**45AU70**	1
	75W HAL	12W	3,000 K	1050 lm	25 °	Yes	25,000 hr	4 ¾ in	GE Current	**45NY22**	1
	75W HAL	12W	3,000 K	1050 lm	40 °	Yes	25,000 hr	4 ¾ in	GE Current	**45NY23**	1
	75W INC	12W	3,000 K	900 lm	25 °	Yes	25,000 hr	4 ¾ in	GE Current	**55XC92**	1
Halogen	75W INC	53 W	2,860 K	920 lm	10 °	Yes	1,000 hr	4 ½ in	Philips	**492Z45**	1
PAR30LN Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	50W INC	38 W	2,850 K	550 lm	25 °	Yes	1,500 hr	4 ¾ in	GE Current	**39P423**	1
PAR30S Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W HAL	10W	2,700 K	800 lm	25 °	Yes	25,000 hr	3 ½ in	Philips	**52ZX71**	1
	75W HAL	10W	2,700 K	800 lm	40 °	Yes	25,000 hr	3 ½ in	Philips	**52ZX73**	1
	75W HAL	10W	3,000 K	850 lm	25 °	Yes	25,000 hr	3 ½ in	Philips	**52ZX72**	1
	75W HAL	10W	3,000 K	850 lm	40 °	Yes	25,000 hr	3 ½ in	Philips	**52ZX74**	1
PAR36 Bulb Shape; Screw Terminals Bulb Base Type											
Halogen	35W INC	35 W	3,000 K	250 lm	30 °	Yes	4,000 hr	3 ¾ in	GE Current	**4V091**	1
	35W INC	35 W	3,050 K	93 lm	8 °	Yes	4,000 hr	3 ¾ in	GE Current	**3JK48**	1
	40W INC	36 W	3,000 K	450 lm	30 °	Yes	4,000 hr	2 ¾ in	Philips	**492Z46**	1
Incandescent	50W INC	50W	3000K	3580 lm	40 °	Yes	400 hr	2 ¾ in	GE Current	**6VK23**	1
	100W INC	100W	3000K	8750 lm	40 °	Yes	25 hr	2 ¾ in	GE Current	**6VK26**	1
	100W INC	100W	3000K	1050 lm	14 °	Yes	300 hr	2 ¾ in	GE Current	**1G866**	1
	150W INC	150W	3000K	825 lm	40 °	Yes	300 hr	2 ¾ in	GE Current	**2F350**	1
	250W INC	250W	3000K	1800 lm	7 °	Yes	25 hr	2 ¾ in	GE Current	**1G864**	1
Halogen	650W INC	650 W	3,200 K	24,000 lm	30 °	Yes	100 hr	2 ¾ in	GE Current	**1C445**	1
PAR38 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	50W INC	38 W	2,850 K	520 lm	25 °	Yes	1,500 hr	5 ⅜ in	GE Current	**49K699**	1
	60W INC	60 W	2,900 K	1070 lm	10 °	Yes	1,100 hr	5 ⅜ in	GE Current	**22C432**	1
	75W INC	60 W	2,900 K	1070 lm	30 °	Yes	1,100 hr	5 ⅜ in	GE Current	**22C433**	1
	80W INC	80 W	3,000 K	1600 lm	10 °	Yes	1,100 hr	5 ⅜ in	GE Current	**22C434**	1
LED	90W HAL	12W	2,700 K	850 lm	25 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX79**	1
	90W HAL	12W	2,700 K	850 lm	40 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX82**	1
	90W HAL	12W	3,000 K	900 lm	25 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX80**	1
	90W HAL	12W	3,000 K	900 lm	40 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX83**	1
	90W INC	15W	3,000 K	1300 lm	40 °	Yes	25,000 hr	5 ⅛ in	GE Current	**45UY91**	1
	100W INC	12W	3,000 K	950 lm	12 °	Yes	25,000 hr	5 ⅜ in	GE Current	**55XC94**	1
Halogen	100W INC	72 W	2,880 K	1350 lm	25 °	Yes	1,000 hr	5 ¼ in	Philips	**492Z47**	1
	100W INC	72 W	2,880 K	1350 lm	10 °	Yes	1,000 hr	5 ¼ in	Philips	**492Z48**	1
Incandescent	100W INC	100W	1330K	1320 lm	55 °	Yes	5,000 hr	5 ⅜ in	Philips	**493A16**	1
LED	120W HAL	14W	2,700 K	1150 lm	25 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX84**	1
	120W HAL	14W	2,700 K	1150 lm	40 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX87**	1
	120W HAL	14W	3,000 K	1150 lm	25 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX85**	1
	120W HAL	14W	3,000 K	1150 lm	40 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX88**	1
	120W HAL	14W	5,000 K	1150 lm	25 °	Yes	25,000 hr	5 ¼ in	Philips	**52ZX86**	1
	120W HAL	18W	2,700 K	1250 lm	40 °	Yes	25,000 hr	5 ⅛ in	GE Current	**246M80**	1
	120W HAL	18W	2,700 K	1550 lm	25 °	Yes	25,000 hr	5 ⅛ in	GE Current	**45NY11**	1
	120W HAL	18W	2,700 K	1550 lm	40 °	Yes	25,000 hr	5 ⅛ in	GE Current	**45NY12**	1
	120W HAL	18W	3,000 K	1350 lm	40 °	Yes	25,000 hr	5 ⅛ in	GE Current	**246M84**	1
	120W HAL	18W	3,000 K	1550 lm	25 °	Yes	25,000 hr	5 ⅛ in	GE Current	**45NY09**	1
	120W HAL	18W	4,000 K	1700 lm	25 °	Yes	25,000 hr	5 ⅜ in	GE Current	**45NY13**	1
	120W INC	16W	2,700 K	1300 lm	40 °	Yes	15,000 hr	5 ⅜ in	GE Current	**482P37**	2
	120W HAL	18W	4,000 K	1700 lm	40 °	Yes	25,000 hr	5 ⅜ in	GE Current	**45NY14**	1
	150W HAL	18W	3,000 K	1550 lm	40 °	Yes	25,000 hr	5 ⅛ in	GE Current	**45NY10**	1
Incandescent	175W INC	175W	1330K	2620 lm	360 °	Yes	5,000 hr	5 ⅜ in	Philips	**492Z91**	1

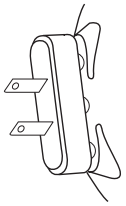
CONTINUED



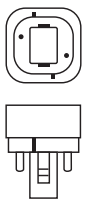
Medium Screw (E26) Base



Screw Terminals Base



Mogul End Prong (GX16d) Base



2-Pin (G24D-2) Base



PAR16
No. 492Z42



PAR20
No. 45NY24



PAR30
No. 246M68



PAR30L
No. 52ZX75



PAR30LN
No. 39P423



PAR30S
No. 52ZX71



PAR36
No. 1C445



PAR38
No. 45NY09

CONTINUED



PAR56
No. 1K441



PAR64
No. 6VK44



PL Vertical
No. 54EL42

PAR Light Bulbs

PHILIPS GE current a Daintree company

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
PAR46 Bulb Shape; Screw Terminals Bulb Base Type											
Halogen	250W INC	250 W	3,000 K	67 lm	40 °	Yes	25 hr	4 ⅞ in	GE Current	**6VK43**	1
Incandescent	450W INC	450W	3000K	30,820 lm	14 °	Yes	10 hr	3 ¼ in	GE Current	**6VK51**	1
	450W INC	450W	3000K	2800 lm	40 °	Yes	10 hr	3 ¾ in	GE Current	**2F340**	1
PAR56 Bulb Shape; Mogul End Prong (GX16d) Bulb Base Type											
Incandescent	200W INC	200W	2750K	2270 lm	30 °	Yes	2,000 hr	5 in	GE Current	**1C249**	1
	300W INC	300W	2750K	3840 lm	60 °	Yes	2,000 hr	5 in	GE Current	**4V499**	1
PAR56 Bulb Shape; Screw Terminals Bulb Base Type											
Incandescent	200W INC	200W	3000K	3700 lm	15 °	Yes	350 hr	4 ½ in	GE Current	**5V123**	1
	300W INC	300W	3000K	6000 lm	60 °	Yes	1,000 hr	4 ½ in	GE Current	**5V511**	1
	350W INC	350W	3000K	6200 lm	15 °	Yes	500 hr	4 ½ in	GE Current	**1K441**	1
PAR64 Bulb Shape; 3 Screw Terminals Bulb Base Type											
Incandescent	1000W INC	1000W	3000K	—	40 °	Yes	25 hr	3 ¾ in	GE Current	**2F588**	1
PAR64 Bulb Shape; Screw Terminals Bulb Base Type											
Incandescent	600W INC	600W	3000K	47,732 lm	12 °	Yes	25 hr	3 ¾ in	GE Current	**6VK44**	1
Halogen	600W INC	600 W	3,000 K	60,000 lm	40 °	Yes	100 hr	4 ½ in	GE Current	**6VK46**	1
PL Vertical Bulb Shape; 2-Pin (G24d) Bulb Base Type											
LED	75W INC/18 to 20W CFL	10.5W	2,700 K	1000 lm	120 °	No	50,000 hr	6 ⅛ in	GE Current	**54EL42**	1
	75W INC/18 to 20W CFL	10.5W	3,500 K	1050 lm	120 °	No	50,000 hr	6 ⅛ in	GE Current	**54EL44**	1
	75W INC/18 to 20W CFL	10.5W	4,000 K	1050 lm	120 °	No	50,000 hr	6 ⅛ in	GE Current	**54EL45**	1



Medium Screw
(E26) Base



BR30
No. 492Z69



BR38
No. 5UCX3



BR40
No. 36GJ48

PHILIPS GE current a Daintree company AERO-TECH 20,000 hours SATCO | NUVO Ishat-r-shield INC. The Protective Lighting Company LumaPro

BR Light Bulbs

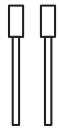
Bulged reflector (BR) light bulbs have a reflector that prevents light from becoming trapped in the bulbs' neck and sides and instead directs the light forward out the bulbs' top. These bulbs are commonly used as floodlights and corridor lights.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BR30 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	45W INC	45W	2600K	385 lm	60 °	Yes	2,500 hr	5 ⅜ in	Philips	**493A18**	3
	45W INC	45W	2700K	330 lm	30 °	Yes	2,500 hr	5 ⅜ in	Philips	**493A17**	3
Halogen	50W INC	50 W	2,900 K	600 lm	60 °	Yes	2,000 hr	5 ¼ in	Philips	**492Z69**	3
LED	65W INC/16W CFL	7.2W	2200 to 2700K	650 lm	90 °	Yes	15,000 hr	5 ⅜ in	Philips	**54YP75**	1
	65W INC/16W CFL	7.2W	2,700 K	650 lm	110 °	Yes	15,000 hr	5 ¼ in	Philips	**54YP77**	1
	65W INC	8W	2,700 K	700 lm	40 °	Yes	15,000 hr	5 ⅜ in	GE Current	**482P41**	2
	65W INC	12W	3,000 K	800 lm	120 °	Yes	20,000 hr	5 ⅛ in	Aero-Tech	**54XL60**	1
Incandescent	65W INC	65W	2600K	610 lm	25 °	Yes	2,000 hr	5 ⅜ in	GE Current	**1K401**	1
	65W INC	65W	2600K	725 lm	30 °	Yes	2,000 hr	5 ⅜ in	GE Current	**2F214**	1
	65W INC	65W	2680K	605 lm	300 °	Yes	4,000 hr	4 in	Philips	**492Z80**	1
	65W INC	65W	2690K	610 lm	55 °	Yes	2,500 hr	5 ⅜ in	Philips	**492Z81**	3
	65W INC	65W	2700K	540 lm	35 °	Yes	2,000 hr	5 ⅜ in	GE Current	**5V298**	1
	65W INC	65W	2700K	685 lm	360 °	Yes	2,000 hr	5 ⅜ in	Satco	**451F85**	1
	65W INC	65W	2710K	620 lm	55 °	Yes	2,000 hr	5 ⅜ in	Philips	**492Z82**	1
	65W INC	65W	2800K	610 lm	60 °	Yes	20,000 hr	5 ¼ in	Aero-Tech	**5UCW9**	1
LED	100W INC	15W	2200 to 2700K	1400 lm	110 °	Yes	15,000 hr	5 ⅛ in	Philips	**55YD48**	1
BR38 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	75W INC	75W	2800K	650 lm	60 °	Yes	20,000 hr	5 ⅜ in	Aero-Tech	**5UCX3**	1
	100W INC	100W	2800K	1100 lm	60 °	Yes	20,000 hr	5 ⅜ in	Aero-Tech	**5UCX5**	1
BR40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	50W INC	50W	1330K	100 lm	60 °	Yes	2,000 hr	6 ½ in	Philips	**493A20**	1
LED	65W INC/16W CFL	10W	2200 to 2700K	800 lm	90 °	Yes	15,000 hr	6 ½ in	Philips	**54YP78**	1
	65W INC	11W	2,700 K	950 lm	40 °	Yes	15,000 hr	6 ½ in	GE Current	**482P40**	1
Incandescent	65W INC	65W	2600K	500/730 lm	30 °	Yes	2,000 hr	6 ⅜ in	GE Current	**2F218**	1
	65W INC	65W	2700K	620 lm	60 °	Yes	2,000 hr	2 ¼ in	Philips	**493A15**	12
	65W INC	65W	2750K	565 lm	55 °	Yes	4,000 hr	5 ⅜ in	Philips	**492Z83**	1
	65W INC	65W	2750K	565 lm	60 °	Yes	2,000 hr	6 ¼ in	Philips	**492Z84**	1
LED	85W INC	13W	2,700 K	1070 lm	120 °	Yes	25,000 hr	6 ⅜ in	GE Current	**36GJ48**	1
	85W INC	13W	3,000 K	1070 lm	120 °	Yes	25,000 hr	6 ⅜ in	GE Current	**36GJ49**	1
	85W INC	13W	5,000 K	1070 lm	25 °	Yes	25,000 hr	6 ⅜ in	GE Current	**55XC78**	1
	150W INC	20W	2200 to 2700K	2175 lm	110 °	Yes	15,000 hr	6 ¼ in	Philips	**55YD49**	1
Incandescent	250W INC	250W	1330K	378 lm	60 °	Yes	5,000 hr	3 ¾ in	Philips	**493A01**	1
	250W INC	250W	1330K	378 lm	60 °	Yes	5,000 hr	6 ¼ in	Philips	**493A02**	1
	250W INC	250W	2700K	1200 lm	105 °	No	5,000 hr	6 ½ in	Shat-R-Shield	**11D011**	1
	500W INC	500W	2700K	5500 lm	360 °	Yes	2,000 hr	6 ½ in	Satco	**451F99**	1

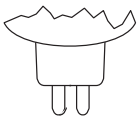
GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready

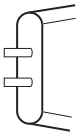




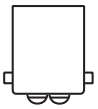
2-Pin (G4) Base



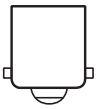
2-Pin (GU5.3) Base



2-Pin Miniature (GY5.3) Base



Double Contact Bayonet (BA15d) Base



Single Contact Bayonet (BA15s) Base



MR11
No. 492Z34



MR16
No. 490Z25

MR Light Bulbs

Multifaceted reflector (MR) light bulbs have several internal reflectors that direct light at a precise angle as it exits the bulbs. MR bulbs produce a narrow beam of light and are used in display cases and small task lights where the bulb is spotlighting objects that are a short distance away. These compact bulbs also fit into tight areas where the bulb will be concealed, such as elevator lights.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
MR11 Bulb Shape; 2-Pin (G4) Bulb Base Type											
Halogen	20W INC	20W	2800K	165 lm	25°	Yes	4000 hr.	1⅜"	GE Lighting	**1C736**	1
MR11 Bulb Shape; 2-Pin (GU4) Bulb Base Type											
Halogen	20W INC	20W	2800K	230 lm	30°	Yes	2000 hr.	1¾"	Philips	**492Z34**	1
MR16 Bulb Shape; 2-Pin (GU10) Bulb Base Type											
Halogen	20W INC	20W	3000K	205 lm	36°	Yes	3000 hr.	1⅞"	Philips	**492Z35**	1
LED	35W HAL	4W	3500K	300 lm	35°	Yes	25,000 hr.	2⅛"	GE Lighting	**55XC91**	1
	35W INC/8W CFL	6W	3000K	400 lm	25°, 40°, 55°	Yes	30,000 hr.	2⅛"	Aero-Tech	**435Y18**	1
	35W HAL	35W	2900K	400 cbcp	38°	Yes	2000 hr.	1⅞"	Satco	**451F87**	1
	50W INC	50W	2750K	400 lm	40°	Yes	3000 hr.	2⅛"	GE Lighting	**1TJT8**	1
Halogen	50W INC	50W	2800K	205 lm	25°	Yes	2000 hr.	2⅞"	Philips	**492Z37**	3
	50W HAL	50W	2900K	900 cbcp	38°	Yes	2000 hr.	1⅞"	Satco	**451F88**	1
	50W INC	50W	3000K	6200 cbcp	10°	Yes	3000 hr.	1⅞"	Philips	**492Z41**	1
MR16 Bulb Shape; 2-Pin (GU5.3) Bulb Base Type											
	35W HAL	4.5W	2700K	380 lm	12°	Yes	25,000 hr.	1¾"	GE Lighting	**55XC88**	1
	35W HAL	4.5W	3500K	400 lm	12°	Yes	25,000 hr.	1¾"	GE Lighting	**55XC89**	1
	35W HAL	4.5W	4000K	400 lm	12°	Yes	25,000 hr.	1¾"	GE Lighting	**55XC90**	1
LED	35W INC/8W CFL	6W	3000K	400 lm	25°, 40°, 55°	No	30,000 hr.	2⅛"	Aero-Tech	**435Y17**	1
	35W HAL	6.4W	3000K	420 lm	35°	Yes	25,000 hr.	1⅞"	Philips	**44ZA65**	1
	35W HAL	6.5W	2200 to 2700K	410 lm	25°	Yes	25,000 hr.	1⅞"	Philips	**38NF55**	1
	35W HAL	6.5W	2200 to 2700K	410 lm	35°	Yes	25,000 hr.	1⅞"	Philips	**38NF56**	1
	35W HAL	35W	3700K	520 lm	36°	Yes	2000 hr.	1¾"	Burton	**35FT94**	4
Halogen	35W HAL	35W	3700K	520 lm	10°	Yes	2000 hr.	1¾"	Burton	**35FV40**	4
	35W INC	35W	3000K	540 lm	36°	Yes	3000 hr.	1¾"	Philips	**492Z38**	1
	50W HAL	6W	2700K	500 lm	35°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z34**	1
	50W HAL	6W	2700K	500 lm	25°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z35**	1
	50W HAL	6.5W	2700K	500 lm	25°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z24**	1
	50W HAL	6.5W	2700K	500 lm	15°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z27**	1
	50W HAL	6.5W	2700K	500 lm	35°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z31**	1
	50W HAL	6.5W	2700K	550 lm	35°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z32**	1
	50W HAL	6.5W	2700K	485 lm	35°	Yes	25,000 hr.	1⅞"	Philips	**494L70**	1
	50W HAL	6.5W	3000K	520 lm	25°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z25**	1
	50W HAL	6.5W	3000K	520 lm	35°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z26**	1
	50W HAL	6.5W	3000K	520 lm	15°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z28**	1
LED	50W HAL	6.5W	3000K	1350 lm	25°	Yes	25,000 hr.	1¾"	GE Lighting	**490Z36**	1
	50W HAL	6.5W	3000K	485 lm	35°	Yes	25,000 hr.	1⅞"	Philips	**494L71**	1
	50W HAL	6.5W	4000K	550 lm	15°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z29**	1
	50W HAL	6.5W	4000K	550 lm	25°	Yes	25,000 hr.	1⅞"	GE Lighting	**490Z30**	1
	50W HAL	7.3W	2700K	515 lm	25°	Yes	25,000 hr.	2"	Philips	**494C70**	1
	50W HAL	7.3W	2700K	515 lm	35°	Yes	25,000 hr.	2"	Philips	**494C71**	1
	50W HAL	7.3W	3000K	515 lm	25°	Yes	25,000 hr.	2"	Philips	**494C72**	1
	50W HAL	7.3W	3000K	515 lm	35°	Yes	25,000 hr.	2"	Philips	**494C73**	1
	50W HAL	8.5W	2700K	600 lm	25°	Yes	25,000 hr.	2"	Philips	**494C74**	1
	50W HAL	8.5W	2700K	600 lm	35°	Yes	25,000 hr.	2"	Philips	**494C75**	1
	50W HAL	8.5W	3000K	620 lm	25°	Yes	25,000 hr.	2"	Philips	**494C76**	1
	50W HAL	8.5W	3000K	620 lm	35°	Yes	25,000 hr.	2"	Philips	**494C77**	1
	50W INC	50W	3000K	750 lm	36°	Yes	3000 hr.	1⅞"	Philips	**492Z61**	1
Halogen	50W INC	50W	3100K	850 lm	36°	Yes	3000 hr.	1¾"	Philips	**492Z36**	1
	50W HAL	50W	3100K	700 lm	10°	Yes	2000 hr.	1¾"	Burton	**35FT81**	3
MR16 Bulb Shape; 2-Pin (GX10) Bulb Base Type											
Ceramic Metal Halide	20W MH	20W	3000K	1000 lm	40°	No	12,000 hr.	2⅜"	GE Lighting	**1TJT3**	1
	20W MH	20W	3000K	1000 lm	12°	No	12,000 hr.	2⅜"	GE Lighting	**1TJR7**	1
	20W MH	20W	3000K	1000 lm	25°	No	15,000 hr.	2½"	Philips	**492Y36**	1
Metal Halide	20W MH	20W	3000K	1000 lm	10°	No	15,000 hr.	2½"	Philips	**492Y37**	1
	39W MH	39W	3000K	2200 lm	25°	No	10,000 hr.	2⅝"	GE Lighting	**3DXR9**	1
MR16 Bulb Shape; 2-Pin (GX5.3) Bulb Base Type											
	20W INC	20W	2900K	275 lm	36°	Yes	2000 hr.	1⅞"	GE Lighting	**4LV92**	1
	20W INC	20W	3000K	205 lm	36°	Yes	3000 hr.	1⅞"	Philips	**492Z39**	3
	35W HAL	35W	3300K	350 lm	40°	Yes	50 hr.	1¾"	Eiko	**6DZG7**	1
	50W INC	50W	2900K	890 lm	36°	Yes	2000 hr.	1⅞"	GE Lighting	**4LV94**	1
Halogen	150W HAL	150W	3150K	5279 lm	45°	Yes	500 hr.	1¾"	Eiko	**6DZG4**	1
	150W HAL	150W	3250K	900 lm	10°	Yes	200 hr.	1¾"	Eiko	**6DZL2**	1
	150W HAL	150W	3400K	354 lm	45°	Yes	40 hr.	1¾"	Eiko	**6DZH0**	1
	250W HAL	250W	3250K	15,000 lm	25°	Yes	175 hr.	1¾"	Eiko	**6DZL6**	1
	250W HAL	250W	3400K	800 lm	36°	Yes	50 hr.	1¾"	Eiko	**6DZL3**	1
MR16 Bulb Shape; 2-Pin Miniature (GY5.3) Bulb Base Type											
Halogen	360W HAL	360W	3300K	460 lm	40°	Yes	75 hr.	1¾"	Eiko	**6DZG5**	1
MR16 Bulb Shape; Double Contact Bayonet (BA15d) Bulb Base Type											
LED	20W INC/5W CFL	2W	3000K	55 lm	60°	No	25,000 hr.	1⅜"	LumaPro	**4LRG5**	1
MR16 Bulb Shape; Single Contact Bayonet (BA15s) Bulb Base Type											
LED	20W INC/5W CFL	2W	3000K	55 lm	60°	No	25,000 hr.	2½"	LumaPro	**4LRG4**	1



R14
No. 492Z95



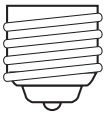
R20
No. 36GJ42



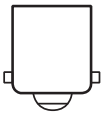
R30
No. 40D435



R40
No. 493A04



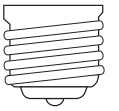
Intermediate Screw (E17) Base



Single Contact Bayonet (BA15s) Base



Medium Screw (E26) Base



Mogul Screw (E39) Base

GE current a Daintree company PHILIPS

R Light Bulbs

Reflector (R) light bulbs have a reflective inner surface that intensifies the bulbs' light output. They install into track lights, can lights, and accent lights for general lighting applications.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
R14 Bulb Shape; Intermediate Screw (E17) Bulb Base Type												
Incandescent	25W INC	25W	2700K	180 lm	Frosted	25 °	Yes	1,500 hr	2 ½ in	GE Current	**6VX30**	1
	25W INC	25W	2800K	150 lm	Clear	30 °	Yes	1,750 hr	2 in	Philips	**492Z95**	1
R14 Bulb Shape; Single Contact Bayonet (B15) Bulb Base Type												
Incandescent	25W INC	25W	3000K	200 lm	Frosted	25 °	Yes	2,000 hr	2 ⅝ in	GE Current	**1C670**	1
R20 Bulb Shape; Medium Screw (E26) Bulb Base Type												
Incandescent	30W INC	30W	2550K	205 lm	Clear	30 °	Yes	2,500 hr	2 ½ in	Philips	**492Z96**	1
	30W INC	30W	2600K	180 lm	Frosted	25 °	Yes	2,000 hr	3 ⅞ in	GE Current	**2V561**	1
	40W INC	40W	2600K	310 lm	Frosted	45 °	Yes	2,000 hr	3 ⅜ in	GE Current	**3JK22**	1
LED	45W INC	5W	2,700 K	450 lm	Frosted	40 °	Yes	15,000 hr	3 ⅝ in	GE Current	**482P43**	1
	45W INC	7W	5,000 K	470 lm	—	25 °	Yes	25,000 hr	3 ⅜ in	GE Current	**55XC77**	1
Incandescent	45W INC	45W	2550K	385 lm	Clear	30 °	Yes	2,500 hr	3 ¾ in	Philips	**492Z97**	3
	45W INC	45W	2550K	385 lm	Clear	40 °	Yes	2,500 hr	4 in	Philips	**492Z98**	1
	45W INC	45W	2550K	380 lm	Clear	40 °	Yes	2,000 hr	4 in	Philips	**492Z99**	1
	45W INC	45W	2600K	300 lm	Clear	25 °	Yes	2,000 hr	3 ⅜ in	GE Current	**2PLK8**	1
LED	50W HAL	5W	2200 to 2700K	450 lm	Frosted	90 °	Yes	15,000 hr	3 ¾ in	Philips	**54YP76**	1
	50W INC	7W	2,700 K	470 lm	Frosted	120 °	Yes	25,000 hr	3 ¾ in	GE Current	**36GJ42**	1
	50W HAL	7W	3,000 K	470 lm	Frosted	120 °	Yes	25,000 hr	3 ¾ in	GE Current	**36GJ43**	1
Incandescent	120W INC	120W	1330K	550 lm	Blue	40 °	Yes	2,000 hr	3 ¾ in	Philips	**493A19**	1
R30 Bulb Shape; Medium Screw (E26) Bulb Base Type												
LED	65W INC	10W	2,700 K	700 lm	Frosted	120 °	Yes	25,000 hr	5 ½ in	GE Current	**40D434**	1
	65W INC	10W	3,000 K	700 lm	Frosted	120 °	Yes	25,000 hr	5 ½ in	GE Current	**40D435**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type												
Incandescent	250W INC	250W	1330K	378 lm	Red	60 °	Yes	5,000 hr	6 ¼ in	Philips	**493A03**	1
	252W INC	252W	3000K	2850 lm	Frosted	25 °	Yes	1,000 hr	6 ¾ in	GE Current	**1G944**	1
	300W INC	300W	1330K	2960 lm	Clear	60 °	Yes	2,000 hr	6 ½ in	Philips	**493A04**	1
R40 Bulb Shape; Mogul Screw (E39) Bulb Base Type												
Incandescent	300W INC	300W	2800K	3000 lm	Frosted	35 °	Yes	2,000 hr	7 ¼ in	GE Current	**5V154**	1



AR111
No. 55YD39



AR70
No. 3DYH1



Double Contact Bayonet (BA15d) Base

PHILIPS GE current a Daintree company

AR Light Bulbs

Aluminum-faceted reflector (AR) light bulbs produce a very narrow beam of light. They are used in display cases and architectural lighting for spotlighting objects that are a short distance away.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
AR111 Bulb Shape; 2-Pin (GX5.3) Bulb Base Type											
LED	75W HAL	16W	3,000 K	900 lm	25 °	Yes	25,000 hr	2 7⁄16 in	Philips	**55YD39**	1
	100W HAL	20W	3,000 K	1200 lm	25 °	Yes	25,000 hr	2 7⁄16 in	Philips	**55YD40**	1
AR111 Bulb Shape; Screw Terminal/Plug-In Prong (G53) Bulb Base Type											
Halogen	35W INC	35 W	2,800 K	1740 lm	24 °	Yes	3,000 hr	3 ¾ in	GE Current	**1TJU1**	1
	50W INC	50 W	2,800 K	2850 lm	8 °	Yes	3,000 hr	2 ¾ in	GE Current	**1TJU2**	1
	50W INC	50 W	2,800 K	1050 lm	24 °	Yes	3,000 hr	3 ¾ in	GE Current	**1TJU3**	1
	50W INC	50 W	3,000 K	950 lm	24 °	Yes	3,000 hr	2 ½ in	Philips	**492Z33**	1
	75W INC	75 W	2,900 K	2900 lm	24 °	Yes	3,000 hr	3 ¾ in	GE Current	**1TJU5**	1
AR70 Bulb Shape; Double Contact Bayonet (BA15d) Bulb Base Type											
Halogen	50W INC	50 W	2,750 K	2800 lm	8 °	Yes	3,000 hr	2 ⅝ in	GE Current	**3DYH1**	1

GE current a Daintree company | LumaPro | PHILIPS

Screw-Base S-Shaped Miniature Light Bulbs

These light bulbs have a screw base that twists into a compatible socket.

Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Candelabra Screw-Base S-Shaped Miniature Light Bulbs						
Candelabra Screw (E12) Bulb Base						
3S6/5	S6	3W	130V AC	GE Current	**4V746**	1
3S6/5/130V	S6	3W	130V AC	LumaPro	**4RZW2**	1
6S6	S6	6W	145V AC	LumaPro	**4RZW3**	1
	S6	6W	30V AC	LumaPro	**4RZY5**	1
	S6	6W	120V AC	GE Current	**4V442**	1
	S6	6W	130V AC	GE Current	**4V443**	1
	S6	6W	145V AC	GE Current	**4V751**	1
	S6	6W	155V AC	GE Current	**4V753**	1
6S6/3	S6	6W	120V AC	GE Current	**1E924**	1
6S6/32V	S6	6W	32V AC	LumaPro	**4RZT4**	1
6S6/120V	S6	6W	120V AC	LumaPro	**4RZU5**	1
	S6	6W	120V AC	LumaPro	**4RZW8**	1
6S6/130V	S6	6W	130V AC	LumaPro	**4RZU6**	1
6S6/155V	S6	6W	155V AC	LumaPro	**4RZW4**	1
10S6	S6	10W	230V AC	LumaPro	**4RZY7**	1
	S6	10W	250V AC	LumaPro	**4RZY8**	1
—	S6	6.0	24	LumaPro	**4RZY4**	1
BC6S6/12/2 TP	S6	6W	12V AC	Philips	**493A05**	2
Miniature Screw-Base S-Shaped Miniature Light Bulbs						
Medium Screw (E26) Bulb Base						
11S14	S14	11W	130V AC	LumaPro	**4RZT9**	1
11S14 TR	S14	11W	130V AC	LumaPro	**4RZW9**	1
11S14 TY 130V	S14	11.0W	130V AC	LumaPro	**4RZX1**	1
15S14/GR/CL 130V	S14	15.0W	130V AC	LumaPro	**4RZU3**	1
15S14/IFBB	S14	15W	34V AC	LumaPro	**4RZT5**	1



No. 4RZT5



No. 4V746



Candelabra Screw (E12) Base



Medium Screw (E26) Base

LumaPro | GE current a Daintree company | PHILIPS

Bayonet-Base S-Shaped Miniature Light Bulbs

Bayonet-base miniature light bulbs are pushed into a compatible socket and then twisted. The bayonet base has lugs on either side that lock the bulb in place.

Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Appliance Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
312	S11	36.12W	28V AC	LumaPro	**2FMT7**	10
1724	S11	27.9W	6.2V AC	LumaPro	**3EHL3**	1
Single Contact Bayonet (BA15s) Bulb Base						
18S11	S11	18W	10	LumaPro	**4RZY6**	1
25S11/4SC	S11	25W	10V AC	GE Current	**5V295**	1
311	S11	36W	28	LumaPro	**21U554**	1
	S11	36.12W	28V AC	LumaPro	**2FLZ1**	10
Double-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
6S6DC	S6	6W	120V AC	GE Current	**4V754**	1
	S6	6W	130V AC	GE Current	**4V756**	1
	S6	6W	75V AC	LumaPro	**4RZU2**	1
	S6	6W	120V AC	LumaPro	**4RZW5**	1
	S6	6W	130V AC	LumaPro	**4RZW6**	1
10S6DC/230V	S6	10W	230V AC	LumaPro	**4RZU1**	1
15S11/3DC-75V	S11	15W	75V AC	LumaPro	**475G28**	1
88	S8	12.988W	6.8V AC	LumaPro	**2FMC2**	10
	S8	13.0	6.8	LumaPro	**21U526**	1
94	S8	13.312W	12.8V AC	LumaPro	**21U530**	1
	S8	13.312W	12.8V AC	LumaPro	**2FMD6**	10
306	S8	14.28W	28V AC	LumaPro	**21U551**	1
	S8	14.28W	28V AC	LumaPro	**2FLZ8**	10
308	S8	18.76W	28V AC	LumaPro	**21U553**	1
	S8	18.76W	28V AC	LumaPro	**2FMF3**	10
1076	S8	23.04W	12.8V AC	LumaPro	**2FMG6**	10
	S8	23	12.8	LumaPro	**21U594**	1
1130	S8	16.832W	6.4V AC	LumaPro	**3EHK6**	10
1142	S8	18.43W	12.8V AC	LumaPro	**2FMG4**	10
	S8	18.0	12.8	LumaPro	**21U597**	1
1156DC	S8	26.88W	12.8V AC	LumaPro	**3EHK7**	10
1176	S8	8.26/17.15W	12.8/14V AC	LumaPro	**21U607**	1
	S8	8.26/17.15W	12.8/14V AC	LumaPro	**2FLU9**	10
1204	S8	19.88W	28V AC	LumaPro	**3EHK8**	10
1228	S8	14.4W	32V AC	LumaPro	**3EHK9**	10
1229	S8	15.2W	40V AC	LumaPro	**21U609**	1
	S8	15.2W	40V AC	LumaPro	**2FLT2**	10
1493	S8	17.875W	6.5V AC	LumaPro	**2FMA8**	10
1594	S8	30W	6V AC	LumaPro	**2FLX4**	10
1612	S8	10.04W	5.4V AC	LumaPro	**475G23**	1
1638	S8	28.56W	28V AC	LumaPro	**21U619**	1
	S8	28.56W	28V AC	LumaPro	**2FMC6**	10
1692	S8	17.08W	28V AC	LumaPro	**21U623**	1
	S8	17.08W	28V AC	LumaPro	**2FMA3**	10
7528 (P21/5W)	S8	5/21W	12.8/12V AC	LumaPro	**21U661**	2
Double Contact Index (BAY15d) Bulb Base						
1662	S8	9.52/25.2W	28/28V AC	LumaPro	**21U620**	1
	S8	9.52/25.2W	28/28V AC	LumaPro	**2FLZ7**	10
7528 (P21/5W)	S8	5/21W	12.8/12V AC	LumaPro	**12A783**	10
Double Contact Prefocus A (P15d30A) Bulb Base						
1460	S8	18W	6.5V AC	LumaPro	**2FMA7**	1
1460X	S8	18W	6.5V AC	LumaPro	**2FMA5**	1
1630	S8	18W	6.5V AC	LumaPro	**2FMP6**	1
1631X	S8	18W	6.5V AC	LumaPro	**2FLR9**	1
1634	S8	20W	20V AC	LumaPro	**2FLR5**	1



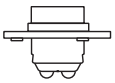
No. 4V754



No. 21U529



Double Contact Bayonet (BA15d) Base



Double Contact Prefocus A (P15d30A) Bulb Base



Single Contact Bayonet (BA15s) Base

Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Single-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
199	S8	29	12.8	LumaPro	**21U542**	1
Single Contact Bayonet (B15) Bulb Base						
BC9/12/2	S8	13W	12V AC	Philips	**492Z94**	2
Single Contact Bayonet (BA15s) Bulb Base						
25S11/4SC-10V-1PK	S11	25W	10V AC	LumaPro	**475G32**	1
93	S8	13.312W	12.8V AC	LumaPro	**21U529**	1
	S8	13.312W	12.8V AC	LumaPro	**2FMF8**	10
199	S8	28.8W	12.8V AC	LumaPro	**2FLY7**	10
305	S8	14.28W	28V AC	LumaPro	**21U550**	1
	S8	14.28W	28V AC	LumaPro	**2FMB1**	10
307	S8	18.76W	28V AC	LumaPro	**21U552**	1
	S8	18.76W	28V AC	LumaPro	**2FMB5**	10
1073	S8	23.04W	12.8V AC	LumaPro	**21U593**	1
	S8	23.04W	12.8V AC	LumaPro	**2FMC8**	10
1129	S8	16.832W	6.4V AC	LumaPro	**2FMD2**	10
1141	S8	18.4W	12.8V AC	LumaPro	**21U596**	2
	S8	18.4W	12.8V AC	LumaPro	**2FMF4**	10
1203	S8	19.88W	28V AC	LumaPro	**2FLV7**	10
1295	S8	37.5W	12.5V AC	LumaPro	**2FMV8**	10
1295NA	S8	38	12.5	LumaPro	**21U611**	1
1591	S8	17.08W	28V AC	LumaPro	**21U616**	1
	S8	17.08W	28V AC	LumaPro	**2FLX5**	10
1619	S8	12.73W	6.7V AC	LumaPro	**2FLW8**	10
1651	S8	3W	5V AC	LumaPro	**2FMW3**	10
1665	S8	22	28	LumaPro	**21U621**	1
	S8	22.4W	28V AC	LumaPro	**2FLT7**	10
1683	S8	29	28	LumaPro	**21U622**	1
	S8	28.56W	28V AC	LumaPro	**2FLY5**	10
1691	S8	17.08W	28V AC	LumaPro	**2FLV8**	10
2232	S8	17.92W	28V AC	LumaPro	**21U642**	1
	S8	17.92W	28V AC	LumaPro	**2FMR2**	10
2233	S8	22.4W	28V AC	LumaPro	**21U643**	1
	S8	22.4W	28V AC	LumaPro	**2FMR4**	10
7506 (P21W)	S8	21W	12V AC	LumaPro	**21U663**	2
7507	S8	21W	12V AC	LumaPro	**2FMX9**	10
7511 (P21W 24V)	S8	21W	24V AC	LumaPro	**21U662**	1
	S8	21W	24V AC	LumaPro	**12A785**	10

LumaPro GE current a Daintree company PHILIPS GA GRAINGER APPROVED

Screw-Base T-Shaped Miniature Light Bulbs

The screw base on these light bulbs twists into a compatible socket.



Candelabra Screw (E12) Base



No. 39P450



Intermediate Screw (E17) Base



No. 493A22



Miniature Candelabra Screw (E11) Base



No. 2V701



Miniature Screw (E10) Base



No. 26CU06

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
Candelabra Screw-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-45	T4	Candelabra Screw (E12)	0.3W	105 to 125V AC	—	LumaPro	**2FNB7**	10
LED								
L2012CS-W	T6	Candelabra Screw (E12)	0.2W	12V AC	White	LumaPro	**39P452**	1
L2024CS-R	T6	Candelabra Screw (E12)	0.4W	24V AC	Red	LumaPro	**39P453**	1
L2024CS-W	T6	Candelabra Screw (E12)	0.4W	24V AC	White	LumaPro	**39P454**	1
L20120CS-W	T6	Candelabra Screw (E12)	1.2W	120V AC	White	LumaPro	**39P450**	1
L20120CS-WW	T6	Candelabra Screw (E12)	1.2W	120V AC	Warm White	LumaPro	**39P451**	1
LM2006CS-R	T6	Candelabra Screw (E12)	0.72W	6.3V AC	Red	LumaPro	**2FNV7**	1
LM2006CS-W	T6	Candelabra Screw (E12)	0.72W	6.3V AC	White	LumaPro	**2FNV8**	1
LM2006CS-WW	T6	Candelabra Screw (E12)	0.72W	6.3V AC	Warm White	LumaPro	**2FNV9**	1
LM2024CS-A	T6	Candelabra Screw (E12)	0.72W	24V AC	Amber	LumaPro	**2FNY7**	1
LM2024CS-B	T6	Candelabra Screw (E12)	0.72W	24V AC	Blue	LumaPro	**2FNY8**	1
LM2024CS-G	T6	Candelabra Screw (E12)	0.72W	24V AC	Green	LumaPro	**2FNY9**	1
LM2030CS-A	T6	Candelabra Screw (E12)	0.72W	30V AC	Amber	LumaPro	**2FNZ4**	1
LM2030CS-G	T6	Candelabra Screw (E12)	0.72W	30V AC	Green	LumaPro	**2FNZ6**	1
LM2030CS-W	T6	Candelabra Screw (E12)	0.72W	30V AC	White	LumaPro	**2FNZ8**	1
LM2030CS-WW	T6	Candelabra Screw (E12)	0.72W	30V AC	Warm White	LumaPro	**2FNZ9**	1
LM2048CS-B	T6	Candelabra Screw (E12)	0.72W	48V AC	Blue	LumaPro	**2FPA2**	1
LM2048CS-G	T6	Candelabra Screw (E12)	0.72W	48V AC	Green	LumaPro	**2FPA3**	1
LM2048CS-R	T6	Candelabra Screw (E12)	0.72W	48V AC	Red	LumaPro	**2FPA4**	1
LM2060CS-A	T6	Candelabra Screw (E12)	0.72W	60V AC	Amber	LumaPro	**2FPA7**	1
LM2060CS-WW	T6	Candelabra Screw (E12)	0.72W	60V AC	Warm White	LumaPro	**2FPB3**	1
LM2075CS-A	T6	Candelabra Screw (E12)	0.72W	75V AC	Amber	LumaPro	**2FPB4**	1
LM2075CS-B	T6	Candelabra Screw (E12)	0.72W	75V AC	Blue	LumaPro	**2FPB5**	1
LM2075CS-WW	T6	Candelabra Screw (E12)	0.72W	75V AC	Warm White	LumaPro	**2FPB9**	1
LM20120CS-A	T6	Candelabra Screw (E12)	0.72W	120V AC	Amber	LumaPro	**2FNW1**	1
LM20120CS-B	T6	Candelabra Screw (E12)	0.72W	120V AC	Blue	LumaPro	**2FNW2**	1
LM20145CS-B	T6	Candelabra Screw (E12)	0.72W	145V AC	Blue	LumaPro	**2FNX5**	1
LM20145CS-G	T6	Candelabra Screw (E12)	0.72W	145V AC	Green	LumaPro	**2FNX6**	1
LM20145CS-R	T6	Candelabra Screw (E12)	0.72W	145V AC	Red	LumaPro	**2FNX7**	1
LM20145CS-W	T6	Candelabra Screw (E12)	0.72W	145V AC	White	LumaPro	**2FNX8**	1
LM20145CS-WW	T6	Candelabra Screw (E12)	0.72W	145V AC	Warm White	LumaPro	**2FNX9**	1
LM20220CS-A	T6	Candelabra Screw (E12)	0.72W	220V AC	Amber	LumaPro	**2FNY1**	1
LM20220CS-B	T6	Candelabra Screw (E12)	0.72W	220V AC	Blue	LumaPro	**2FNY2**	1
LM20220CS-W	T6	Candelabra Screw (E12)	0.72W	220V AC	White	LumaPro	**2FNY5**	1
LM20220CS-WW	T6	Candelabra Screw (E12)	0.72W	220V AC	Warm White	LumaPro	**2FNY6**	1
Incandescent								
6S6/120V	S6	Candelabra Screw (E12)	6W	120V AC	—	LumaPro	**475G26**	1
6T4 1/2/1	T4-1/2	Candelabra Screw (E12)	6W	130V AC	—	GE Current	**4V766**	1
15T6	T6	Candelabra Screw (E12)	15W	120V AC	—	GE Current	**1E545**	1
	T6	Candelabra Screw (E12)	15W	145V AC	—	GE Current	**4V450**	1
15T6 140/24/1	T6	Candelabra Screw (E12)	15W	140 to 150V AC	—	Philips	**493A10**	1
15T6-145V	T6	Candelabra Screw (E12)	15W	145V AC	—	LumaPro	**4RZU7**	1
15T6-130V	T6	Candelabra Screw (E12)	15W	130V AC	—	LumaPro	**4RZT6**	1
15T7C	T7	Candelabra Screw (E12)	15W	120V AC	—	GE Current	**4V820**	1
15T7C/TR-120V	T7	Candelabra Screw (E12)	15W	120V AC	—	LumaPro	**4RZX2**	1
BC15T6C/TP/12/1	T6	Candelabra Screw (E12)	15W	120V AC	—	Philips	**493A09**	1
BC15T7C/6/1	T7	Candelabra Screw (E12)	15W	120V AC	—	Philips	**493A13**	1
Halogen								
Q250CL/MC	T4	Candelabra Screw (E12)	250W	130V AC	—	GE Current	**4V483**	1
Intermediate Screw-Base T-Shaped Miniature Light Bulbs								
Incandescent								
15T7N/120V	T7	Intermediate Screw (E17)	15W	120V AC	—	LumaPro	**4RZU8**	1
20T6-1/2/IF/24PK	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	Philips	**493A11**	1
20T6 1/2/F	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	GE Current	**4V479**	1
20T6 1/2N/120V	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	LumaPro	**4RZV8**	1
25T6-1/2	T6	Intermediate Screw (E17)	25W	130V AC	—	LumaPro	**4RZV3**	1
	T6-1/2	Intermediate Screw (E17)	25W	120V AC	—	GE Current	**4V456**	1
25T6-1/2 120V	T6	Intermediate Screw (E17)	25W	120V AC	—	LumaPro	**4RZV2**	1
25T6-1/2F 130V	T6	Intermediate Screw (E17)	25W	130V AC	—	LumaPro	**4RZV4**	1
25T6 1/2/F	T6-1/2	Intermediate Screw (E17)	25W	130V AC	—	GA	**21YM04**	1
25T7N 120V	T7	Intermediate Screw (E17)	25W	120V AC	—	LumaPro	**4RZV9**	1
25T8N	T8	Intermediate Screw (E17)	25W	120V AC	—	GE Current	**4V645**	1
40T6-1/2 120V	T6	Intermediate Screw (E17)	40W	120V AC	—	LumaPro	**4RZX5**	1
40T6-1/2 130V	T6	Intermediate Screw (E17)	40W	130V AC	—	LumaPro	**4RZW1**	1
BC25T6-1/2 120/6/1 TP	T6-1/2	Intermediate Screw (E17)	25W	120V AC	—	Philips	**493A12**	1
BC25T7N /6/1 TP	T7	Intermediate Screw (E17)	25W	120V AC	—	Philips	**493A14**	1
BC40T8N/6/1 TP	T8	Intermediate Screw (E17)	40W	120V AC	—	Philips	**493A22**	1
Miniature Candelabra Screw-Base T-Shaped Miniature Light Bulbs								
Halogen								
100Q/CL/DC	T4	Miniature Candelabra Screw (E11)	100W	120V AC	—	Philips	**492Z55**	1
150Q/CL	T4	Miniature Candelabra Screw (E11)	150W	120V AC	—	Philips	**492Z53**	1
EHT	T4	Miniature Candelabra Screw (E11)	250W	120V AC	—	GE Current	**2V265**	1
ESM	T4	Miniature Candelabra Screw (E11)	250W	120V AC	—	GE Current	**1C370**	1
ETG	T4	Miniature Candelabra Screw (E11)	150W	120V AC	—	GE Current	**2V701**	1
ETH	T4	Miniature Candelabra Screw (E11)	150W	120V AC	—	GE Current	**5V735**	1
Q75CL/MC/CD	T4	Miniature Candelabra Screw (E11)	75W	120V AC	—	GE Current	**5XN35**	1
Q100CL/MC	T4	Miniature Candelabra Screw (E11)	100W	120V AC	—	GE Current	**6V701**	1
Q400CL/MC	T4	Miniature Candelabra Screw (E11)	400W	120V AC	—	GE Current	**1C358**	1
Miniature Screw-Base T-Shaped Miniature Light Bulbs								
LED								
L1024MS-A	T3-1/4	Miniature Screw (E10)	0.4W	24V AC	Amber	LumaPro	**39P456**	1
L1024MS-R	T3-1/4	Miniature Screw (E10)	0.4W	24V AC	Red	LumaPro	**39P457**	1
L1024MS-W	T3-1/4	Miniature Screw (E10)	0.42W	24V AC	—	LumaPro	**26CU06**	1
L2024CS-WW	T6	Miniature Screw (E10)	0.7W	24V AC	—	LumaPro	**26CT97**	1
L20120CS-G	T6	Miniature Screw (E10)	0.7W	120V AC	—	LumaPro	**26CT99**	1
L20120CS-R	T6	Miniature Screw (E10)	0.7W	120V AC	—	LumaPro	**26CT98**	1
LM1006MS-B	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	Blue	LumaPro	**2FNH8**	1
LM1006MS-R	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	Red	LumaPro	**2FNJ1**	1
LM1006MS-W	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	White	LumaPro	**2FNJ2**	1
LM1012MS-B	T3-1/4	Miniature Screw (E10)	0.1W	12.8V AC	Blue	LumaPro	**2FNL5**	1
LM1012MS-G	T3-1/4	Miniature Screw (E10)	0.1W	12.8V AC	Green	LumaPro	**2FNL6**	1
LM1012MS-R	T3-1/4	Miniature Screw (E10)	0.1W	12.8V AC	Red	LumaPro	**2FNL7**	1
LM1012MS-W	T3-1/4	Miniature Screw (E10)	0.1W	12.8V AC	White	LumaPro	**2FNL8**	1
Incandescent								
40	T3-1/4	Miniature Screw (E10)	0.945W	6.3V AC	—	LumaPro	**2FMR6**	10
46	T3-1/4	Miniature Screw (E10)	1.575W	6.3V AC	—	LumaPro	**2FMR7**	10
1477	T3	Miniature Screw (E10)	4.08W	24V AC	—	LumaPro	**2FMW2**	10
1487	T3-1/4	Miniature Screw (E10)	2.8W	14V AC	—	LumaPro	**2FMG1**	10
1821	T3-1/4	Miniature Screw (E10)	4.76W	28V AC	—	LumaPro	**2FMW5**	10
1823	T3-1/4	Miniature Screw (E10)	4.8W	48V AC	Clear	LumaPro	**3EHL5**	10

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base T-Shaped Miniature Light Bulbs								
Incandescent								
15T7DC-120V	T7	Double Contact Bayonet (BA15d)	15W	120V AC	Clear	LumaPro	4RZU4	1
20T6 1/2DC/F	T6-1/2	Double Contact Bayonet (BA15d)	20W	120V AC	—	GE Current	4V996	1
25T6-1/2 DC/IF 130V	T6	Double Contact Bayonet (BA15d)	25W	130V AC	—	LumaPro	4RZX3	1
25T6-1/2 DC 120V	T6	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	4RZU9	1
25T7DC	T7	Double Contact Bayonet (BA15d)	25W	120V AC	Clear	GE Current	4V460	1
25T7DC/120V	T7	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	475G27	1
25T8DC-120V	T8	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	4RZV5	1
120PSB	T2	Tel. Slide No. 5	3W	120V AC	—	LumaPro	55VR91	10
Halogen								
ESS	T4	Double Contact Bayonet (BA15d)	250W	120V AC	—	GE Current	2V703	1
ETC	T4	Double Contact Bayonet (BA15d)	150W	120V AC	—	GE Current	2V702	1
Q100CL/DC	T4	Double Contact Bayonet (BA15d)	100W	120V AC	—	GE Current	1E362	1
Miniature Bayonet-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-51	T3	Miniature Bayonet (BA9s)	0.1W	105 to 125V AC	—	LumaPro	2FNB5	10
NE-51H	T3	Miniature Bayonet (BA9s)	0.3W	105 to 125V AC	—	LumaPro	2FNB6	10
LED								
122217	T2-1/2	Miniature Bayonet (BA9s)	0.84W	24V AC	Red	GE Current	6CJW7	1
297372	T2-1/2	Miniature Bayonet (BA9s)	1.4W	120V AC	Red	GE Current	6CJW3	1
415129	T2-1/2	Miniature Bayonet (BA9s)	0.84W	24V AC	Green	GE Current	6CJW8	1
415131	T2-1/2	Miniature Bayonet (BA9s)	0.84W	24V AC	White	GE Current	6CJW6	1
588198	T2-1/2	Miniature Bayonet (BA9s)	1.4W	120V AC	Green	GE Current	6CJW4	1
623353	T2-1/2	Miniature Bayonet (BA9s)	0.78W	12V AC	Red	GE Current	6CJW5	1
843232	T2-1/2	Miniature Bayonet (BA9s)	1.4W	120V AC	White	GE Current	6CJW2	1
L24V-MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Amber	LumaPro	2FNP4	1
L24V-MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Blue	LumaPro	2FNP5	1
L24V-MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Green	LumaPro	2FNP6	1
L24V-MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	White	LumaPro	2FNP8	1
L120V-MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Blue	LumaPro	2FNK2	1
L1006MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	Green	LumaPro	2FNH3	1
L1006MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	—	LumaPro	26CT96	1
	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	Red	LumaPro	2FNH4	1
L1006MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.3W	6V AC	White	LumaPro	39P458	1
L1006MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.3W	6V AC	Warm White	LumaPro	39P459	1
L1024MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.3W	24V AC	—	LumaPro	26CU07	1
L1060MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	—	LumaPro	26CU05	1
L1060MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	—	LumaPro	26CU01	1
L10120MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.8W	120V AC	Green	LumaPro	39P455	1
L10120MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.84W	120V AC	—	LumaPro	26CU03	1
L10160MB-W	T3-1/4	Miniature Bayonet (BA9s)	1.12W	160V AC	—	LumaPro	26CU02	1
LM1006MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.47W	6.30V AC	Amber	LumaPro	2FNH1	1
LM1006MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.47W	6.30V AC	Blue	LumaPro	2FNH2	1
LM1012MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V AC	Amber	LumaPro	2FNK7	1
LM1012MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V AC	Green	LumaPro	2FNK9	1
LM1012MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V AC	Red	LumaPro	2FNL1	1
LM1012MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V AC	White	LumaPro	2FNL2	1
LM1012MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V AC	Warm White	LumaPro	2FNL3	1
LM1048MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Blue	LumaPro	2FNT5	1
LM1048MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Green	LumaPro	2FNT6	1
LM1048MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Red	LumaPro	2FNT7	1
LM1048MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	White	LumaPro	2FNT8	1
LM1048MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Warm White	LumaPro	2FNT9	1
LM1060MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	Blue	LumaPro	2FNU2	1
LM1060MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	White	LumaPro	2FNU5	1
LM1090MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Amber	LumaPro	2FNU7	1
LM1090MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Red	LumaPro	2FNV1	1
LM1090MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Warm White	LumaPro	2FNV3	1
LM10120MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Amber	LumaPro	2FNK1	1
LM10120MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Warm White	LumaPro	2FNK6	1
LM10160MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Amber	LumaPro	2FNN7	1
LM10160MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Blue	LumaPro	2FNN8	1
LM10160MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.7W	160V AC	Green	LumaPro	2FNN9	1
LM10160MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Red	LumaPro	2FNP1	1
LM10160MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Warm White	LumaPro	2FNP3	1
Incandescent								
24MB	T2-1/2	Miniature Bayonet (BA9s)	1.68W	24V AC	—	LumaPro	3HGE5	10
28MB	T2-1/2	Miniature Bayonet (BA9s)	1.12W	28V AC	Clear	LumaPro	2EKU2	10
43	T3-1/4	Miniature Bayonet (BA9s)	1.25W	2.5V AC	—	LumaPro	2FMA1	10
44	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	2FMP2	10
47	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	21U518	1
	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	2FML7	10
60MB	T2-1/2	Miniature Bayonet (BA9s)	3W	60V AC	—	LumaPro	21U510	1
	T2-1/2	Miniature Bayonet (BA9s)	3W	60V AC	Clear	LumaPro	2EKU6	10
120MB	T2-1/2	Miniature Bayonet (BA9s)	3W	120V AC	—	GE Current	1E855	1
	T2-1/2	Miniature Bayonet (BA9s)	3W	120V AC	Clear	LumaPro	2EKV1	10
120MB-1	T2-1/2	Miniature Bayonet (BA9s)	0.1W	120V AC	—	LumaPro	4VCW4	1
130MB	T2	Miniature Bayonet (BA9s)	3.25W	130V AC	—	LumaPro	3EHJ8	10
313	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	2FML9	10
316	T3-1/4	Miniature Bayonet (BA9s)	4.2W	6V AC	—	LumaPro	2FLY1	10
755	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	2FMR1	10
	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	4VCW2	1
756	T3-1/4	Miniature Bayonet (BA9s)	1.12W	14V AC	—	LumaPro	2FMN1	10
756-1	T3-1/4	Miniature Bayonet (BA9s)	0.1W	14V AC	—	LumaPro	4VCW3	1
757	T3-1/4	Miniature Bayonet (BA9s)	2.24W	28V AC	—	LumaPro	2FMP7	10
767	T2-1/4	Miniature Bayonet (BA9s)	12W	6V AC	—	LumaPro	5DTN6	1
1408	T3-1/4	Miniature Bayonet (BA9s)	1.3W	10V AC	—	LumaPro	2FMG5	10
1488	T3-1/4	Miniature Bayonet (BA9s)	2.1W	14V AC	Clear	LumaPro	3EHL2	10
1495	T4-1/2	Miniature Bayonet (BA9s)	8.4W	28V AC	Clear	LumaPro	2EKW5	10
1810	T3-1/4	Miniature Bayonet (BA9s)	2.52W	6.3V AC	Clear	LumaPro	2FMW4	10
1813	T3-1/4	Miniature Bayonet (BA9s)	1.44W	14.4V AC	—	LumaPro	2FMB4	10
1815	T3-1/4	Miniature Bayonet (BA9s)	2.8W	14V AC	—	LumaPro	21U625	1
1816	T3-1/4	Miniature Bayonet (BA9s)	4.29W	13V AC	—	LumaPro	2FMF6	10
1818	T3-1/4	Miniature Bayonet (BA9s)	4.08W	24V AC	—	LumaPro	21U627	1
	T3-1/4	Miniature Bayonet (BA9s)	4.08W	24V AC	—	LumaPro	2FMK6	10
1819	T3-1/4	Miniature Bayonet (BA9s)	1.12W	28V AC	—	LumaPro	2FMP9	10
1820	T3-1/4	Miniature Bayonet (BA9s)	2.8W	28V AC	—	LumaPro	2FMP5	10
1822	T3-1/4	Miniature Bayonet (BA9s)	3.6W	36V AC	—	LumaPro	21U630	1
1828	T3-1/4	Miniature Bayonet (BA9s)	1.875W	37.5V AC	—	LumaPro	21U631	1
1829	T3-1/4	Miniature Bayonet (BA9s)	1.96W	28V AC	—	LumaPro	2FMN8	10
1835	T3-1/4	Miniature Bayonet (BA9s)	2.75W	55V AC	—	LumaPro	2FMN9	10

LumaPro GE current a Daintree company

Bayonet-Base T-Shaped Miniature Light Bulbs

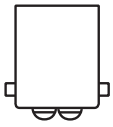
Bayonet-base miniature light bulbs are pushed into a compatible socket and then twisted. The bayonet base has lugs on either side that lock the bulb in place.



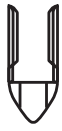
No. 2EKU2



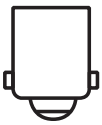
No. 475G27



Double Contact Bayonet (BA15d) Base



Tel. Slide No. 5 Base



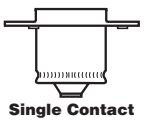
Miniature Bayonet (BA9s) Base

CONTINUED

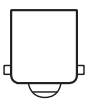
Bayonet-Base T-Shaped Miniature Light Bulbs



No. 1C886



Single Contact Miniature Flanged (P13.5s) Base



Single Contact Bayonet (BA15s) Base

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
Miniature Bayonet-Base T-Shaped Miniature Light Bulbs (Cont.)								
Incandescent (Cont.)								
1843	T3-1/4	Miniature Bayonet (BA9s)	0.616W	28V AC	Clear	LumaPro	**2FMB2**	10
1847	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	Clear	LumaPro	**2FMH9**	10
1850	T3-1/4	Miniature Bayonet (BA9s)	0.45W	5V AC	—	LumaPro	**2FMG7**	10
1864	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	**21U633**	1
	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	**2FML5**	10
1866	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	**21U634**	1
	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	**2FML4**	10
1873	T3-1/4	Miniature Bayonet (BA9s)	5.6W	28V AC	—	LumaPro	**21U635**	1
	T3-1/4	Miniature Bayonet (BA9s)	5.6W	28V AC	Clear	LumaPro	**2FMD7**	10
1888	T3-1/4	Miniature Bayonet (BA9s)	3.5W	7V AC	Clear	LumaPro	**2FMW6**	10
1889	T3-1/4	Miniature Bayonet (BA9s)	3.78W	14V AC	Clear	LumaPro	**2FMW7**	10
1891	T3-1/4	Miniature Bayonet (BA9s)	3.36W	14V AC	Clear	LumaPro	**2FMD3**	10
1892	T3-1/4	Miniature Bayonet (BA9s)	1.728W	14.4V AC	—	LumaPro	**2FMJ2**	10
1893	T3-1/4	Miniature Bayonet (BA9s)	4.62W	14V AC	—	LumaPro	**21U638**	2
	T3-1/4	Miniature Bayonet (BA9s)	4.62W	14V AC	Clear	LumaPro	**2FMD4**	10
Halogen								
1815	T3-1/4	Miniature Bayonet (BA9s)	2.8W	14V AC	—	LumaPro	**2FMJ8**	10
1822	T3-1/4	Miniature Bayonet (BA9s)	3.6W	36V AC	—	LumaPro	**2FMJ9**	10
1828	T3-1/4	Miniature Bayonet (BA9s)	1.875W	37.5V AC	—	LumaPro	**2FMJ7**	10
Single-Contact Bayonet-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-2D	T2	Single Contact Miniature Flanged (P13.5s)	0.3W	105 to 125V AC	—	LumaPro	**2FNC1**	10
Incandescent								
327	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMN6**	10
328	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.2W	6V AC	—	LumaPro	**2FMF5**	10
330	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**21U559**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**2FME7**	10
338	T1-3/4	Single Contact Miniature Flanged (P13.5s)	0.162W	2.7V AC	—	LumaPro	**2FMT9**	10
376	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.68W	28V AC	—	LumaPro	**2FMU3**	10
381	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.26W	6.3V AC	—	LumaPro	**21U562**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.26W	6.3V AC	Clear	LumaPro	**2FME8**	10
382	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**2FMK4**	10
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1W	14V AC	—	GE Current	**1C890**	1
385	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMH6**	10
387	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1W	28V AC	Clear	GE Current	**1C886**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMP4**	10
1876	T5	Single Contact Bayonet (BA15s)	8.75W	3.5V AC	Clear	LumaPro	**2FLU4**	10
3497	T6	Single Contact Bayonet (BA15s)	26.4W	12.8V AC	—	LumaPro	**3EHN3**	1
5007	T6	Single Contact Bayonet (BA15s)	5W	12V AC	Clear	LumaPro	**2FMX3**	10
Halogen								
795	T4	Single Contact Bayonet (BA15s)	50W	12V AC	Clear	LumaPro	**2EKV7**	1

2-Pin Base T-Shaped Miniature Light Bulbs

These miniature light bulbs have two pins on the bottom of their base and are pushed into a compatible socket to install. The base type for each bulb has a number that indicates the distance between the pins, in millimeters. For example, a G4 base has two pins that are spaced 4mm apart.



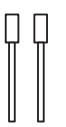
No. 6DZN7



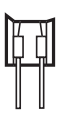
No. 475G43



2-Pin Medium (G9.5) Base



2-Pin (G4) Base



2-Pin (GY6.35) Base



2-Pin (G5.3) Base

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Brand	Item No.	Pkg. Qty.
2-Pin Medium Base T-Shaped Miniature Light Bulbs							
Halogen							
02170	T5	2-Pin Medium (G9.5)	750W	120V AC	Eiko	**6DZK7**	1
03240	T6	2-Pin Medium (G9.5)	1000W	120V AC	Eiko	**6DZN7**	1
03475	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZP4**	1
05916	T6	2-Pin Medium (G9.5)	575W	230V AC	Eiko	**6DZU5**	1
10415	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZR4**	1
10416	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZR6**	1
EHG Q750/CL/TP	T6	2-Pin Medium (G9.5)	750W	120V AC	GE Current	**5V593**	1
FEL-Q1000/4CL	T6	2-Pin Medium (G9.5)	1000W	120V AC	GE Current	**4V251**	1
GLA Q575T6/4CL	T6	2-Pin Medium (G9.5)	575W	115V AC	GE Current	**2FPK1**	1
HPL575/LL/C 115V	T6	2-Pin Medium (G9.5)	575W	115V AC	GE Current	**2FPK2**	1
2-Pin Base T-Shaped Miniature Light Bulbs							
LED							
G9LED	T5	2-Pin (G9)	0.36W	120V AC	LumaPro	**475G33**	1
Incandescent							
7387	T1-3/4	2-Pin (M-23)	1W	28V AC	LumaPro	**21U498**	1
Halogen							
778	T2-3/4	2-Pin (G4)	20W	6V AC	LumaPro	**5DTN8**	1
780	T2-3/4	2-Pin (G4)	12W	12V AC	LumaPro	**5DTN9**	1
782	T2-3/4	2-Pin (G4)	20W	12V AC	LumaPro	**5DTP0**	1
783	T2-1/4	2-Pin (G4)	12W	12V AC	LumaPro	**5DTP1**	1
785	T2-1/4	2-Pin (G4)	8W	6V AC	LumaPro	**5DTP3**	1
786	T2-1/4	2-Pin (G4)	12W	6V AC	LumaPro	**5DTP4**	1
787	T2-1/4	2-Pin (G4)	10W	6V AC	LumaPro	**2FMH1**	1
788	T2-1/4	2-Pin (G4)	20W	6V AC	LumaPro	**5DTP5**	1
789	T2-3/4	2-Pin (G4)	14W	12V AC	LumaPro	**5DTP6**	1
790	T2-3/4	2-Pin (G4)	25W	14V AC	LumaPro	**5DTP7**	1
891	T3	2-Pin (G4)	8W	12V AC	LumaPro	**2FMV2**	1
02950	T3-1/2	2-Pin (G5.3)	360W	82V AC	Eiko	**6DZN0**	1
CAPFIGHT/10W/G4	T3	2-Pin (G4)	10W	12V AC	Philips	**492Z64**	2
CAPSL/20W G4/CL	T3	2-Pin (G4)	20W	12V AC	Philips	**492Z62**	2
CAPSULE/75W GY6.35	T4	2-Pin (GY6.35)	75W	12V AC	Philips	**492Z60**	1
Q5T3/CL	T3	2-Pin (G4)	5W	12V AC	LumaPro	**475G43**	1
	T3	2-Pin (G4)	5W	12V AC	GE Current	**5V100**	1
Q6.6AT2 1/2/1CL	T2-1/2	2-Pin (Special)	45W	6.8V AC	GE Current	**10D911**	1
Q20T2 1/2/12V/CL	T3	2-Pin (G4)	20W	12V AC	GE Current	**2F522**	1
Q25G9/CD	T4	2-Pin (G9)	25W	120V AC	GE Current	**10D909**	1
Q25G9/CD-60W	T4	2-Pin (G9)	60W	120V AC	LumaPro	**475G40**	1
Q25G9/CD-40W	T4	2-Pin (G9)	40W	120V AC	LumaPro	**475G38**	1
Q25G9/CD-25W	T4	2-Pin (G9)	25W	120V AC	LumaPro	**475G39**	1
Q35G8	T4	2-Pin (G8)	35W	120V AC	GE Current	**2TUD3**	1
Q35T3/12V/CL	T3	2-Pin (GY6.35)	35W	12V AC	GE Current	**2F520**	1
	T3	2-Pin (GY6.35)	35W	12V AC	LumaPro	**475G37**	1
Q40G9	T4	2-Pin (G9)	40W	120V AC	GE Current	**2DZZ4**	1
Q50G8/SCD	T4	2-Pin (G8)	50W	120V AC	LumaPro	**475G46**	1
Q50T3/12V/CL	T3	2-Pin (GY6.35)	50W	12V AC	GE Current	**2F518**	1
	T3	2-Pin (GY6.35)	50W	12V AC	LumaPro	**475G41**	1
Q50T3/CL/SCD	T4	2-Pin (G8)	50W	12V AC	LumaPro	**475G44**	1
Q60G9	T4	2-Pin (G9)	60W	120V AC	GE Current	**2DZZ6**	1
Q100T3/12V/CL	T3	2-Pin (GY6.35)	100W	12V AC	LumaPro	**475G45**	1
Q100T3/24V/CL	T4	2-Pin (GY6.35)	100W	24V AC	LumaPro	**475G42**	1

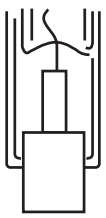
Wedge-Base T-Shaped Miniature Light Bulbs

Wedge-base T-shaped minature light bulbs have a glass or plastic base with lamp filaments that extend out the bottom. The bulbs are pushed into a compatible socket to install.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Light Color	Brand	Item No.	Pkg. Qty.
Glass Wedge-Base T-Shaped Miniature Light Bulbs								
LED								
168LED	T3-1/4	Glass Wedge (W2.1x9.5d)	0.48W	12VAC	White	LumaPro	**475G21**	1
Incandescent								
17	T1-3/4	Glass Wedge (W2.1x4.9d)	1.82W	28VAC	—	LumaPro	**2FMR5**	10
24NA	T2-3/4	Glass Wedge (W2x4.6d)	3.36W	14VAC	Amber	LumaPro	**2FLP8**	10
37	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	14VAC	Clear	LumaPro	**21U516**	1
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	14VAC	—	LumaPro	**2FMH3**	10
70	T1-3/4	Glass Wedge (W2.1x4.9d)	2.1W	14VAC	Clear	LumaPro	**2EKU8**	10
73	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	14VAC	Clear	LumaPro	**21U523**	2
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	14VAC	—	LumaPro	**2FMJ1**	10
74	T1-3/4	Glass Wedge (W2.1x4.9d)	1.4W	14VAC	—	LumaPro	**2FMA9**	10
85	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	28VAC	Clear	LumaPro	**21U525**	1
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	28VAC	—	LumaPro	**2FMP8**	10
86	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	6.3VAC	—	LumaPro	**2FMK3**	10
147	T3-1/4	Glass Wedge (W2.1x9.5d)	3.01W	7VAC	Clear	LumaPro	**2FMG9**	10
158	T3-1/4	Glass Wedge (W2.1x9.5d)	3.36W	14VAC	Clear	LumaPro	**2FME3**	10
161	T3-1/4	Glass Wedge (W2.1x9.5d)	2.66W	14VAC	Clear	LumaPro	**21U534**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	2.66W	14VAC	—	LumaPro	**2FMH7**	10
168	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14VAC	Clear	LumaPro	**21U535**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14VAC	Clear	LumaPro	**2FME1**	10
168LL	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14VAC	Clear	LumaPro	**21U488**	2
192	T3-1/4	Glass Wedge (W2.1x9.5d)	4.29W	13VAC	—	LumaPro	**2FMT2**	10
193	T3-1/4	Glass Wedge (W2.1x9.5d)	4.62W	14VAC	Clear	LumaPro	**2FML2**	10
194	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Clear	LumaPro	**21U538**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Clear	LumaPro	**2FML3**	10
194G	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Green	LumaPro	**2EKV3**	10
194LL	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Clear	LumaPro	**21U489**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	—	LumaPro	**12A786**	10
194NA	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Amber	LumaPro	**21U539**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Amber	LumaPro	**2FLV6**	10
194R	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14VAC	Red	LumaPro	**2FLT6**	10
259	T3-1/4	Glass Wedge (W2.1x9.5d)	1.575W	6.3VAC	—	LumaPro	**2FMN2**	10
400	T3-1/4	Glass Wedge (W2.1x9.5d)	2.8W	28VAC	—	LumaPro	**2FMJ4**	10
555	T3-1/4	Glass Wedge (W2.1x9.5d)	1.575W	6.3VAC	Clear	LumaPro	**2FMD5**	10
558	T3-1/4	Glass Wedge (W2.1x9.5d)	4.29W	13VAC	—	LumaPro	**2FLW9**	10
585	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	28VAC	Clear	LumaPro	**3EHK5**	10
590	T3-1/4	Glass Wedge (W2.1x9.5d)	5W	13.5VAC	Clear	LumaPro	**2FMZ4**	10
	T3-1/4	Glass Wedge (W2.1x9.5d)	5W	13.5VAC	Warm White	LumaPro	**475G25**	1
655	T3-1/4	Glass Wedge (W2.1x9.5d)	5.6W	28VAC	—	LumaPro	**2FMU5**	10
656	T3-1/4	Glass Wedge (W2.1x9.5d)	1.68W	28VAC	—	LumaPro	**2FMN7**	10
657	T3-1/4	Glass Wedge (W2.1x9.5d)	2.24W	28VAC	—	LumaPro	**2FMP1**	10
658	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	14VAC	Clear	LumaPro	**21U575**	1
	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	14VAC	—	LumaPro	**2FMK1**	10
901	T5	Glass Wedge (W2.1x9.5d)	3.968W	12.8VAC	Clear	LumaPro	**2FLV9**	10
904	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5VAC	Clear	LumaPro	**21U576**	2
	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5VAC	—	LumaPro	**2FLU7**	10
906	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5VAC	Clear	LumaPro	**21U577**	2
	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5VAC	Clear	LumaPro	**2FLX1**	10
908	T5	Glass Wedge (W2.1x9.5d)	9W	6VAC	Clear	LumaPro	**21U578**	1
	T5	Glass Wedge (W2.1x9.5d)	9W	6VAC	—	LumaPro	**2FML6**	10
909	T5	Glass Wedge (W2.1x9.5d)	3.72W	6VAC	—	LumaPro	**2FMP3**	10
912	T5	Glass Wedge (W2.1x9.5d)	12.8W	12.8VAC	Clear	LumaPro	**21U580**	2
	T5	Glass Wedge (W2.1x9.5d)	12.8W	12.8VAC	Clear	LumaPro	**2FME4**	10
912/24V	T5	Glass Wedge (W2.1x9.5d)	16.8W	24VAC	—	LumaPro	**2FNB2**	10
914	T5	Glass Wedge (W2.1x9.5d)	3.6W	4VAC	Clear	LumaPro	**2FMH5**	10
915	T5	Glass Wedge (W2.1x9.5d)	9W	12VAC	Clear	LumaPro	**21U582**	1
	T5	Glass Wedge (W2.1x9.5d)	9W	12VAC	—	LumaPro	**2FML1**	10
916	T5	Glass Wedge (W2.1x9.5d)	7.29W	13.5VAC	Clear	LumaPro	**2FLU5**	10
917	T5	Glass Wedge (W2.1x9.5d)	14.4W	12VAC	—	LumaPro	**2FMV7**	10
918	T5	Glass Wedge (W2.1x9.5d)	7.168W	12.8VAC	Clear	LumaPro	**21U584**	1
	T5	Glass Wedge (W2.1x9.5d)	7.168W	12.8VAC	Clear	LumaPro	**2FMC7**	10
921	T5	Glass Wedge (W2.1x9.5d)	17.92W	12.8VAC	White	LumaPro	**21U585**	2
921 (W16W)	T5	Glass Wedge (W2.1x9.5d)	17.92W	12.8VAC	—	LumaPro	**2FME6**	10
922	T5	Glass Wedge (W2.1x9.5d)	12.544W	12.8VAC	Clear	LumaPro	**2FLT8**	10
923	T5	Glass Wedge (W2.1x9.5d)	11.648W	12.8VAC	—	LumaPro	**21U587**	2
	T5	Glass Wedge (W2.1x9.5d)	11.648W	12.8VAC	Clear	LumaPro	**2FLV2**	10
926	T5	Glass Wedge (W2.1x9.5d)	7.2W	4VAC	—	LumaPro	**2FLY9**	10
927	T5	Glass Wedge (W2.1x9.5d)	7.2W	6VAC	—	LumaPro	**2FMK5**	10
939	T5	Glass Wedge (W2.1x9.5d)	5.4W	6VAC	—	LumaPro	**21U589**	1
	T5	Glass Wedge (W2.1x9.5d)	5.4W	6VAC	—	LumaPro	**2FMN5**	10
2721	T1-1/2	Glass Wedge (W2x4.6d)	1.2W	12VAC	—	LumaPro	**3EHL6**	10
2722	T1-1/2	Glass Wedge (W2x4.6d)	2.04W	12VAC	—	LumaPro	**3EHL7**	10
2821	T3-1/4	Glass Wedge (W2.1x9.5d)	3W	12VAC	—	LumaPro	**2FMW9**	10
2825	T3-1/4	Glass Wedge (W2.1x9.5d)	4.8W	12VAC	Clear	LumaPro	**2FMX1**	10
BC4T5/TP/12/4	T5	Glass Wedge (W2.1x4.9d)	4W	12VAC	—	Philips	**493A24**	4
BC11T5/TP/12/4	T8	Glass Wedge (W2.1x4.9d)	11W	12VAC	—	Philips	**493A23**	4
BC18T5/TP/12/4	T5	Glass Wedge (W2.1x4.9d)	18W	171VAC	—	Philips	**493A25**	4
Halogen								
464	T3-1/4	Glass Wedge (W2.1x9.5d)	4.76W	28VAC	—	LumaPro	**2FMJ6**	10
03010	T4	Recessed Single Contact (R7s)	650W	120VAC	—	Eiko	**6DZN2**	1
15168	T3	Recessed Single Contact (R7s)	300W	220VAC	—	Eiko	**29NT87**	1
15204	T4	Recessed Single Contact (R7s)	150W	25VAC	—	Eiko	**29NT88**	1
DE/100W/78 mm	T3	Glass Wedge (W2.1x4.9d)	100W	120VAC	—	Philips	**492Z52**	1
DE/150W/78 mm	T3	Glass Wedge (W2.1x4.9d)	150W	120VAC	—	Philips	**492Z51**	1
DE/300W/118 mm	T3	Glass Wedge (W2.1x4.9d)	300W	120VAC	—	Philips	**492Z63**	2
DE/500W/118 mm	T3	Glass Wedge (W2.1x4.9d)	500W	120VAC	—	Philips	**492Z50**	2
EHM	T2-1/2	Recessed Single Contact (R7s)	300W	120VAC	—	GE Lighting	**2V529**	1
EJG-Q750T3/4CL	T3	Recessed Single Contact (R7s)	750W	120VAC	—	GE Lighting	**6VN87**	1
FCL	T3	Recessed Single Contact (R7s)	500W	120VAC	—	GE Lighting	**2V384**	1
FCM-Q1000T3/4CL	T3	Recessed Single Contact (R7s)	1000W	120VAC	—	GE Lighting	**4V250**	1
Q100T3/CL	T3	Recessed Single Contact (R7s)	100W	120VAC	—	GE Lighting	**1G996**	1
Q500T3/CL	T3	Recessed Single Contact (R7s)	500W	130/120VAC	—	GE Lighting	**2V510**	1
Q1500T3/CL	T3	Recessed Single Contact (R7s)	1500W	240VAC	—	GE Lighting	**2V618**	1
	T3	Recessed Single Contact (R7s)	1500W	277VAC	—	GE Lighting	**2V619**	1
QH1600T3/7-240v	T3	Recessed Single Contact (R7s)	1600W	240VAC	—	GE Lighting	**5V711**	1
QH3650T3/5	T3	Recessed Single Contact (R7s)	3650W	480VAC	—	GE Lighting	**1F312**	1



Glass Wedge Base



Recessed Single Contact (R7s) Base



No. 21U488

CONTINUED

LumaPro PHILIPS EIKO CERTIFIED GREEN GE current a Daintree company

Wedge-Base T-Shaped Miniature Light Bulbs



No. 26CU04

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Light Color	Brand	Item No.	Pkg. Qty.
Plastic Wedge-Base T-Shaped Miniature Light Bulbs								
LED								
L12V-WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.9W	12VAC	Warm White	LumaPro	**2FNN6**	1
L1024WB-W	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.3W	24VAC	White	LumaPro	**26CU04**	1
LM0506WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.12W	6.30VAC	Red	LumaPro	**2FNG1**	1
LM0512WB-B	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8VAC	Blue	LumaPro	**2FNG5**	1
LM0512WB-G	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8VAC	Green	LumaPro	**2FNG6**	1
LM0512WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8VAC	Red	LumaPro	**2FNG7**	1
LM0512WB-W	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8VAC	White	LumaPro	**2FNG8**	1
LM0512WB-WW	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8VAC	Warm White	LumaPro	**2FNG9**	1
LM1006WB-B	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30VAC	Blue	LumaPro	**2FNJ5**	1
LM1006WB-G	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30VAC	Green	LumaPro	**2FNJ6**	1
LM1006WB-W	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30VAC	White	LumaPro	**2FNJ8**	1
LM1006WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30VAC	Warm White	LumaPro	**2FNJ9**	1
LM1012WB-A	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.1W	12VAC	Amber	LumaPro	**2FNN1**	1
LM1012WB-B	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.1W	12VAC	Blue	LumaPro	**2FNN2**	1
LM1024WB-A	T3-1/4	Plastic Wedge (W2.1x9.5d)	1W	24VAC	Amber	LumaPro	**2FNR7**	1
LM1024WB-G	T3-1/4	Plastic Wedge (W2.1x9.5d)	1W	24VAC	Green	LumaPro	**2FNR9**	1
LM1024WB-R	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.7W	24VAC	Red	LumaPro	**2FNT1**	1
LM1024WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.7W	24VAC	Warm White	LumaPro	**2FNT3**	1
LT0524WB-A	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24VDC	Amber	LumaPro	**3AFV5**	1
LT0524WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24VDC	Red	LumaPro	**3AFV6**	1
LT0524WB-W	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24VDC	White	LumaPro	**3AFV3**	1



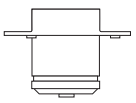
No. 5V223

GE current a Daintree company

Sleeve-Base T-Shaped Miniature Light Bulbs

Sleeve-base T-shaped miniature light bulbs are commonly used in heaters or heat lamps. They have a sleeve base with contacts on both ends, and they are pushed into a compatible socket to install.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Sleeve-Base T-Shaped Miniature Light Bulbs						
Halogen						
QH2MT3/CL/HT/R	T3	Sleeve	2000W	230VAC	**6V285**	1
QH2.5MT3/CL/HT/R 400	T3	Sleeve	2500W	400VAC	**5HB85**	1
QH3MT3/CL/HT/R 400	T3	Sleeve	3000W	400VAC	**5HB86**	1
QH1000T3	T3	Sleeve	1000W	240VAC	**5V223**	1
QH1600T3/CL	T3	Sleeve	1600W	230VAC	**5V229**	1
QH3800T3	T3	Sleeve	3800W	575VAC	**5V235**	1



Medium Prefocus (P28s) Base

No. 6DZH4



GE current a Daintree company EIKO CERTIFIED GREEN

Prefocus-Base T-Shaped Miniature Light Bulbs

The prefocus bases on these T-shaped miniature light bulbs have a ring or collar that helps ensure the bulbs are properly aligned when they are pushed into a compatible socket to install. Also known as P28s bases, medium prefocus light bulb bases have a 28mm dia. They have a smooth cap shape with two dimples on the sides and one contact on the bottom.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Medium Prefocus-Base T-Shaped Miniature Light Bulbs							
Incandescent							
6.6A/T10/1P 30W	T10	Medium Prefocus (P28s)	30W	30V AC	GE Current	**5V305**	1
6.6A/T10P	T10	Medium Prefocus (P28s)	45W	45V AC	GE Current	**5V307**	1
Halogen							
00390	T6	Medium Prefocus (P28s)	500W	120V AC	Eiko	**6DZH1**	1
00410	T7	Medium Prefocus (P28s)	750W	120V AC	Eiko	**6DZH2**	1
00430	T7	Medium Prefocus (P28s)	1000W	120V AC	Eiko	**6DZH4**	1
BTL-Q500T6/CL/P	PAR46	Medium Prefocus (P28s)	500W	120V AC	GE Current	**6VN47**	1



Miniature Screw (E10) Base

No. 2FLW7



LumaPro

TL-Shaped Miniature Light Bulbs

TL-shaped miniature light bulbs have a tube shape with a bump at the top of the bulb where the lens is located. Also known as tubular lens miniature light bulbs, they are used in flashlights. The bulbs have an E10 miniature screw base, which has a 10mm dia. and screws into a compatible socket.

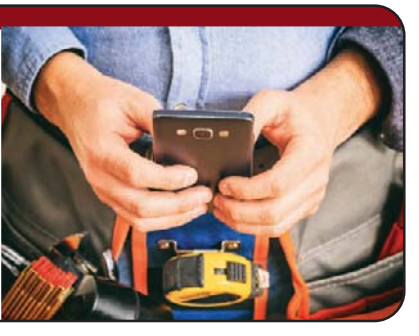
Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Miniature Screw-Base TL-Shaped Miniature Light Bulbs						
Incandescent						
112	TL3	Miniature Screw (E10)	0.264W	1.2VAC	**2FLW7**	10
222	TL3	Miniature Screw (E10)	0.5625W	2.25VAC	**2FMK8**	10
243	TL3	Miniature Screw (E10)	0.6291W	2.33VAC	**2FMT4**	10

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Candelabra Screw-Base G-Shaped Miniature Light Bulbs						
Incandescent						
509K	G6	Candelabra Screw (E12)	4.32W	24VAC	**2FMJ5**	10
Double-Contact Bayonet-Base G-Shaped Miniature Light Bulbs						
Incandescent						
64	G6	Double Contact Bayonet (BA15d)	4.41W	7VAC	**2FMF2**	10
68	G6	Double Contact Bayonet (BA15d)	7.965W	13.5VAC	**21U522**	1
	G6	Double Contact Bayonet (BA15d)	7.965W	13.5VAC	**2FMG8**	10
82	G6	Double Contact Bayonet (BA15d)	6.63W	6.5VAC	**2FMG3**	10
90	G6	Double Contact Bayonet (BA15d)	8.0	13	**21U528**	2
	G6	Double Contact Bayonet (BA15d)	7.54W	13VAC	**2FLZ4**	10
304	G6	Double Contact Bayonet (BA15d)	8.4W	28VAC	**21U549**	1
	G6	Double Contact Bayonet (BA15d)	8.4W	28VAC	**2FMC5**	10
624	G6	Double Contact Bayonet (BA15d)	10.36W	28VAC	**2FMA2**	10
1224	G6	Double Contact Bayonet (BA15d)	5.12W	32VAC	**2FMC9**	10
1252	G6	Double Contact Bayonet (BA15d)	6.44W	28VAC	**2FMF1**	10
Medium Screw-Base G-Shaped Miniature Light Bulbs						
LED						
LM40F1WE26-A	G12	Medium Screw (E26)	2.5W	90 to 240VAC	**2FPC1**	1
LM40F1WE26-G	G12	Medium Screw (E26)	2.5W	90 to 240VAC	**2FPC3**	1
LM40F1WE26-W	G12	Medium Screw (E26)	2.5W	90 to 240VAC	**2FPC5**	1
LM40F1WE26-WW	G12	Medium Screw (E26)	2.5W	90 to 240VAC	**2FPC6**	1
Miniature Bayonet-Base G-Shaped Miniature Light Bulbs						
Incandescent						
51	G3-1/2	Miniature Bayonet (BA9s)	1.65W	7.5VAC	**2FMK7**	10
53	G3-1/2	Miniature Bayonet (BA9s)	1.728W	14.4VAC	**21U519**	1
	G3-1/2	Miniature Bayonet (BA9s)	1.728W	14.4VAC	**2FMJ3**	10
55	G4-1/2	Miniature Bayonet (BA9s)	2.87W	7VAC	**2FMK2**	10
57	G4-1/2	Miniature Bayonet (BA9s)	3.36W	14VAC	**21U520**	1
	G4-1/2	Miniature Bayonet (BA9s)	3.36W	14VAC	**2FME9**	10
265	G3-1/2	Miniature Bayonet (BA9s)	2.24W	28VAC	**21U546**	1
	G3-1/2	Miniature Bayonet (BA9s)	2.24W	28VAC	**2FLY6**	10
293	G4-1/2	Miniature Bayonet (BA9s)	4.62W	14VAC	**2EKV5**	10
356	G3-1/2	Miniature Bayonet (BA9s)	4.76W	28VAC	**21U561**	1
	G3-1/2	Miniature Bayonet (BA9s)	4.76W	28VAC	**2FMC4**	10
363	G3-1/2	Miniature Bayonet (BA9s)	2.8W	14VAC	**2FMU1**	10
456	G4-1/2	Miniature Bayonet (BA9s)	4.76W	28VAC	**2FLY4**	10
503	G4-1/2	Miniature Bayonet (BA9s)	0.765W	5.1VAC	**3EHK4**	10
1445	G3-1/2	Miniature Bayonet (BA9s)	1.872W	14.4VAC	**21U613**	2
	G3-1/2	Miniature Bayonet (BA9s)	1.872W	14.4VAC	**2FLT3**	10
1450	G3-1/2	Miniature Bayonet (BA9s)	0.84W	24VAC	**21U614**	1
	G3-1/2	Miniature Bayonet (BA9s)	0.84W	24VAC	**2FMH4**	10
1895	G4-1/2	Miniature Bayonet (BA9s)	3.78W	14VAC	**2FLZ9**	10
Miniature Screw-Base G-Shaped Miniature Light Bulbs						
Incandescent						
13	G3-1/2	Miniature Screw (E10)	1.11W	3.7VAC	**2FLZ3**	10
14	G3-1/2	Miniature Screw (E10)	0.741W	2.47VAC	**2FMC3**	10
27	G4-1/2	Miniature Screw (E10)	1.47W	4.9VAC	**2FLV1**	10
50	G3-1/2	Miniature Screw (E10)	1.65W	7.5VAC	**2FMR8**	10
131	G3-1/2	Miniature Screw (E10)	0.13W	1.3VAC	**2FMT1**	10
233	G3-1/2	Miniature Screw (E10)	0.6291W	2.33VAC	**2FMT3**	10
245	G3-1/2	Miniature Screw (E10)	1.23W	2.46VAC	**2FMT5**	10
406	G4-1/2	Miniature Screw (E10)	0.8W	2.6VAC	**3EHK3**	10
425	G4-1/2	Miniature Screw (E10)	2.5W	5VAC	**2FLX7**	10
428	G4-1/2	Miniature Screw (E10)	3.125W	12.5VAC	**2FMU4**	10
502	G4-1/2	Miniature Screw (E10)	0.765W	5.1VAC	**2FMF9**	10
605	G4-1/2	Miniature Screw (E10)	3.08W	6.15VAC	**2FMB8**	10
1446	G3-1/2	Miniature Screw (E10)	2.4W	12VAC	**2FMV9**	10
1447	G3-1/2	Miniature Screw (E10)	2.7W	18VAC	**3EHL1**	10
1448	G3-1/2	Miniature Screw (E10)	0.84W	24VAC	**2FMW1**	10
1449	G3-1/2	Miniature Screw (E10)	2.8W	14VAC	**2FMA6**	10

★ LumaPro

G-Shaped Miniature Light Bulbs

G-shaped miniature light bulbs have a compact, round shape and are also known as globe-shaped miniature bulbs.


No. 2FMJ5

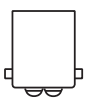

No. 21U549


No. 2FPC6


No. 21U519


No. 2FLZ3


Candelabra Screw (E12) Base


Double Contact Bayonet (BA15d) Base


Medium Screw (E26) Base


Miniature Bayonet (BA9s) Base

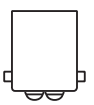

Miniature Screw (E10) Base

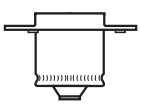
★ LumaPro

B-Shaped Miniature Light Bulbs

B-shaped miniature light bulbs have an oval shape with a rounded or pointed top. They are also known as bomb-, bullet-, blister-, or bulged-shaped bulbs. The bulbs have bayonet base with one or two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base B-Shaped Miniature Light Bulbs						
Incandescent						
210	B6	Double Contact Bayonet (BA15d)	12W	6.5	**21U543**	1
	B6	Double Contact Bayonet (BA15d)	12W	6.5VAC	**2FLZ6**	10
1004	B6	Double Contact Bayonet (BA15d)	12.032W	12.8VAC	**21U591**	2
	B6	Double Contact Bayonet (BA15d)	12.032W	12.8VAC	**2FLY3**	10
Single-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
PR18	B3-1/2	Single Contact Miniature Flanged (P13.5s)	3.96W	7.2VAC	**2EKY4**	10


Double Contact Bayonet (BA15d) Base


Single Contact Miniature Flanged (P13.5s) Base


No. 2FLY3

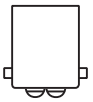

No. 2EKY4

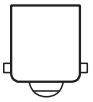
★ LumaPro

RP-Shaped Miniature Light Bulbs

RP-shaped miniature light bulbs have a rounded pear shape that is wider at the top and narrower at the base. Sometimes called reflector pear bulbs, they have bayonet base with one or two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base RP-Shaped Miniature Light Bulbs						
Incandescent						
1062	RP11	Double Contact Bayonet (BA15d)	36.8W	40VAC	**2FMA4**	10
1133	RP11	Single Contact Bayonet (BA15s)	24.242W	6.2VAC	**21U595**	1
	RP11	Single Contact Bayonet (BA15s)	24.242W	6.2VAC	**2FMH8**	10
1195	RP11	Single Contact Bayonet (BA15s)	37.5W	12.5VAC	**21U608**	1
1196	RP11	Double Contact Bayonet (BA15d)	37.5W	12.5VAC	**2FLW4**	10
CE19	RP11	Double Contact Bayonet (BA15d)	40W	36VAC	**475G22**	1


Double Contact Bayonet (BA15d) Base


Single Contact Bayonet (BA15s) Base


No. 475G22


No. 2EKW1


No. 2FNC9


No. 2FND8


No. 3EHN9


No. 2EKV8

LumaPro

Replacement Headlights

Trade No.	Voltage	Watts	Average Life	Item No.
Fog Lights				
880	12VAC	27W	300 hr.	**2FMU6**
881	12VAC	27W	300 hr.	**2FMU7**
885	12VAC	50W	200 hr.	**2EKW1**
886	12VAC	50W	200 hr.	**2FMU8**
889	12VAC	27W	300 hr.	**2FMU9**
890	12VAC	27W	300 hr.	**2FMV1**
893	12VAC	37.5W	200 hr.	**2EKW3**
894	12VAC	37.5W	200 hr.	**2FMV3**
896	12VAC	37.5W	200 hr.	**2FMV4**
898	12VAC	37.5W	1900 hr.	**2FMV5**
9008	12/12VAC	55/60W	200/600 hr.	**2FMY5**
9055	12/12VAC	55W	800 hr.	**2FMY8**
9140	12VAC	40W	1200 hr.	**2FMY9**
9145	12VAC	45W	1000 hr.	**2FMZ1**
H2	12.8VAC	55W	255 hr.	**2FNC8**
H3	12VAC	130W	50 hr.	**2FND1**
	12.8VAC	100W	150 hr.	**2FNC9**
	12.8VAC	55W	400 hr.	**2FND2**
	13.5VAC	55W	400 hr.	**2FND3**
	24VAC	84W	400 hr.	**2FND4**
H8	12VAC	35W	350 hr.	**2FND8**
High/Low Beam				
9003	12VAC	61/67W	150/320 hr.	**2EKW8**
9004	12/12VAC	45/65W	150/320 hr.	**2FMY1**
	12VAC	45/65W	300/640 hr.	**2FNA8**
9007	12/12VAC	55/65W	150/320 hr.	**2FMY4**
	12VAC	55/65W	300/1200 hr.	**3EHN9**
H4	13.2VAC	100W	75/150 hr.	**2FND5**
	13.2VAC	55/60W	150/300 hr.	**2EKX5**
	28VAC	70/75W	150/300 hr.	**2EKX6**
H7	12VAC	55W	250 hr.	**2FND6**
	12VAC	55W	500 hr.	**2FND7**
High Beam				
9005	12VAC	65W	150 hr.	**2FMY2**
	12VAC	65W	320 hr.	**2FNA9**
	12VAC	65W	500 hr.	**3EHN7**
H9	12VAC	65W	200 hr.	**2FND9**
	12VAC	65W	300 hr.	**2FNE1**
Low Beam				
9006	12VAC	55W	200 hr.	**29VJ55**
	12VAC	55W	320 hr.	**2FNB1**
	12VAC	55W	320 hr.	**2FMY3**
	12VAC	55W	1000 hr.	**3EHN8**
H3	12VAC	65W	200 hr.	**2EKX3**
	24VAC	84W	300 hr.	**2FNC5**
H11	12VAC	55W	600 hr.	**2FNC6**
	12VAC	55W	1000 hr.	**2FNC7**
Tractor				
862	12VAC	37.5W	1900 hr.	**2EKV8**

Hamsar DIVERSCO
A Grakon Company

Grote
The first name in vehicle safety systems.

LumaPro

Replacement Taillights


No. 412A05


No. 3JYN8


No. 412A19


No. 21U592


No. 21U601



No. 2FMZ9


No. 2FMB9

Trade No.	Voltage	Color	Rated Life	Brand	Item No.	Pkg. Qty.
LED						
194	12VAC	White	—	Grote	**412A07**	1
	12VAC	White	—	Grote	**412A04**	2
	12VAC	Red	—	Grote	**412A05**	2
194NA	12VAC	Amber	—	Grote	**412A06**	2
211	12VAC	White	—	Grote	**412A08**	1
212	12VAC	White	—	Grote	**412A09**	1
1156	12VAC	White	—	Grote	**412A12**	1
	12VAC	White	8000 hr.	Hamsar	**3JYN8**	1
	12VAC	Amber	8000 hr.	Hamsar	**3JYN6**	1
	12VAC	White	—	Grote	**412A10**	2
1156NA	12VAC	Amber	—	Grote	**412A11**	2
1157	12VAC	White/Amber	—	Grote	**412A15**	1
	12VAC	White	—	Grote	**412A16**	1
	12VAC	Amber	8000 hr.	Hamsar	**3JYP3**	1
	12VAC	White	8000 hr.	Hamsar	**3JYP5**	1
	12 to 24VAC	Red	8000 hr.	Hamsar	**3JYP7**	1
	12VAC	White	50,000 hr.	Grote	**412A13**	2
	12VAC	Red	50,000 hr.	Grote	**412A14**	2
3156	12VAC	White	—	Grote	**412A18**	1
	12VAC	White	8400 hr.	Grote	**412A17**	2
3157	12VAC	White/Amber	30,000 hr.	Grote	**412A22**	1
	12VAC	White	—	Grote	**412A23**	1
	12VAC	White	8400 hr.	Grote	**412A19**	2
	12VAC	Red	—	Grote	**412A20**	2
3157 NA	12VAC	Amber	8400 hr.	Grote	**412A21**	2
3175	12VAC	White	—	Grote	**412A24**	1
7440	12VAC	White	—	Grote	**412A25**	2
7443	12VAC	White	8400 hr.	Grote	**412A26**	2
Incandescent						
198	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**21U541**	1
	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**2FLZ5**	10
1034	12.8/14VAC	Clear	200/500 hr.	LumaPro	**21U592**	1
	12.8/14VAC	Clear	200/500 hr.	LumaPro	**2FLW5**	10
1154	6.3/7VAC	Clear	200/100 hr.	LumaPro	**21U598**	2
	6.3/7VAC	Clear	200/100 hr.	LumaPro	**2FLR3**	10
1156	12.8VAC	Clear	1200 hr.	LumaPro	**21U601**	2
	12.8VAC	Clear	1200 hr.	LumaPro	**2FMN3**	10
1156LL	12.8VAC	Clear	2400 hr.	LumaPro	**21U602**	1
	12.8VAC	Clear	2400 hr.	LumaPro	**2FMZ3**	10
1156NA	12.8VAC	Amber	1200 hr.	LumaPro	**21U603**	1
	12.8VAC	Amber	1200 hr.	LumaPro	**2FLX9**	10
1157	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**21U604**	2
	12.8/14VAC	Clear	2000/10,000 hr.	LumaPro	**21U605**	2
	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**2FMK9**	10
	12.8/14VAC	Clear	2400/10,000 hr.	LumaPro	**12A782**	10
1157NA	12.8	Amber	1200/5000 hr.	LumaPro	**21U606**	1
	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**2FLU8**	10
2057	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**21U640**	2
	12.8/14VAC	Clear	2400/10,000 hr.	LumaPro	**21U492**	2
	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**2FLX6**	10
2057NA	12.8	Amber	1200/5000 hr.	LumaPro	**21U641**	2
	12.8	Amber	2000/10,000 hr.	LumaPro	**21U493**	2
2357	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**2FLP7**	10
	12.8	Clear	400/5000 hr.	LumaPro	**21U645**	2
	12.8/14VAC	Clear	400/5000 hr.	LumaPro	**2FLR4**	10
2357NA	12.8	Amber	400/5000 hr.	LumaPro	**21U644**	2
3057	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**21U647**	2
	12.8/14VAC	Clear	2000/10,000 hr.	LumaPro	**21U495**	2
	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**2FLX8**	10
3057NA	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**21U648**	2
	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**2FMZ9**	10
3155	12.8	Clear	—	LumaPro	**21U649**	2
	12.8VAC	White	1000 hr.	LumaPro	**2FLR1**	10
3156	12.8VAC	Clear	1200 hr.	LumaPro	**21U650**	2
	12.8	Clear	—	LumaPro	**21U496**	2
	12.8VAC	Clear	1200 hr.	LumaPro	**2FLW3**	10
3157	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**21U654**	2
	12.8/14VAC	Clear	2000/10,000 hr.	LumaPro	**21U651**	2
	12.8/14VAC	Clear	1200/5000 hr.	LumaPro	**2FMB9**	10
3157NA	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**21U652**	2
	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**21U653**	2
	12.8/14VAC	Amber	1200/5000 hr.	LumaPro	**2FLT5**	10
	12.8/14VAC	Clear	2000/10,000 hr.	LumaPro	**3EHL8**	10
3457	12.8/14VAC	Clear	400/5000 hr.	LumaPro	**21U655**	2
	12.8/14VAC	Clear	800/10,000 hr.	LumaPro	**21U497**	2
	12.8/14VAC	Clear	400/5000 hr.	LumaPro	**2FNA1**	10
3457NA	12.8/14VAC	Amber	400/5000 hr.	LumaPro	**21U656**	2
	12.8/14VAC	Amber	400/5000 hr.	LumaPro	**2FNA2**	10
3496	12.8/14VAC	Clear	600/5000 hr.	LumaPro	**3EHN2**	1
4114	14/14VAC	Clear	4000/10,000 hr.	LumaPro	**3EHN4**	10
4157	12.8/14VAC	Clear	4000/10,000 hr.	LumaPro	**21U657**	2
	12.8/14VAC	Clear	3600/10,000 hr.	LumaPro	**2EKW7**	10
7225	12.8/12VAC	Clear	150/1500 hr.	LumaPro	**2FMX5**	10
7440	12VAC	Clear	300 hr.	LumaPro	**21U659**	2
	12VAC	Clear	300 hr.	LumaPro	**2FMX6**	10
7443	12VAC	Clear	500/1000 hr.	LumaPro	**21U660**	2
7443NA	12VAC	Amber	500/1000 hr.	LumaPro	**2FNA6**	10
7506	12VAC	Clear	150 hr.	LumaPro	**2FMX8**	10
	12VAC	White	400 hr.	LumaPro	**2FNA7**	10

Maxxima

Grote
The first name in vehicle safety systems.

LED Strip Lighting


No. 12D309


No. 22N658


No. 54DE32


No. 54DE40


No. 2CWK8

Lumens	Voltage	Mounting	Current Rating	No. of LEDs	Light Color	Includes	Length	Width	Mfr. Model	Item No.
Maxxima										
300 lm	12VDC	High Bond Tape	—	27	White	Mounting Clips and Screws	18"	¼"	MLS-1827-A	**12D309**
408 lm	12VDC	High Bond Tape	—	36	White	Mounting Clips and Screws	24"	¼"	MLS-2436-A	**12D310**
612 lm	12VDC	High Bond Tape	—	54	White	Mounting Clips and Screws	36"	¼"	MLS-3654-A	**12P856**
492 lm	12VDC	High Bond Tape	710mA	36	White	Mounting Clips and Screws	24"	¼"	MLS-2436WW-A	**22N658**
738 lm	12VDC	High Bond Tape	1110mA	54	White	Mounting Clips and Screws	36"	¼"	MLS-3654WW-A	**22N662**
782 lm	12VDC	High Bond Tape	1300mA	70	White	Mounting Clips and Screws	45"	¼"	MLS-4569-A	**22N663**
—	12VDC	High Bond Tape	1110mA	54	Red	—	36"	¼"	MLS-3654R	**22N660**
375 lm	12VDC	Permanent	—	54	White	—	18"	⅝"	M84423-B	**54DE32**
750 lm	12VDC	Permanent	—	108	White	—	36"	⅝"	M84425-B	**54DE34**
250 lm	12VDC	High Bond Tape	0.4A	27	White	Ultra Low Amp Draw, Third Wire for Optional Door Control, Moisture Proof Construction	18"	¼"	MLS-1827-A-SW	**54DE40**
640 lm	12VDC	High Bond Tape	1.0A	70	White	Ultra Low Amp Draw, Third Wire for Optional Door Control, Moisture Proof Construction	45"	¼"	MLS-4569-A-SW	**54DE43**
1000 lm	12VDC	Permanent	—	144	White	Center Hold Down Clamp	48"	⅝"	M84429-B	**49XE40**
Grote										
—	12VDC	Clip	—	—	White	50 ft. Roll Comes with (10) Wire Connectors, (50) Mounting Clips and (10) End Caps, LED's Spaced 1 Per Inch	50'	—	60481	**2CWK8**

High-Intensity Discharge (HID) Lamp Information

HID lamps offer high light output and have longer life expectancy than incandescent bulbs. **LED** lamps use significantly less energy and need to be replaced less often than other HID lamp types. They reach full brightness instantly, produce very little heat, and can withstand temperature changes, vibration, and humidity. **Ceramic metal halide and metal halide** lamps offer better color rendering than high-pressure sodium and mercury vapor lamps and are used for indoor and outdoor lighting. **High-pressure sodium** and **mercury vapor** lamps are used for outdoor, security, and roadway lighting. Ceramic metal halide, metal halide, high-pressure sodium, and mercury vapor lamps take a few minutes to reach full brightness and must cool down before they can be restruck after turning off.

Quick Guide to Color

Color Temperature	Color Designation
1800K	Orange
1900-2200K	Warm Yellow
2700K	Soft White
3000-3200K	Warm White, SP30
3400-3700K	Neutral White, SP35
3800-4500K	Cool White, SP41
5200-5700K	Blue White, SP50
6200-6700K	Daylight, SP65

PHILIPS GE current a Daintree company

Light Efficient Design

EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

The EX39 extended mogul screw base on these light bulbs has a 39mm dia. and a longer center terminal than an E39 base. The bulbs screw into both E39 sockets (typically found on enclosed fixtures) and protected EX39 sockets (typically found on open fixtures). These bulbs are used in fixtures with a high mounting height, such as street lights, floodlights, and high-bay and low-bay lights in warehouses and convention centers.



No. 508G02



No. 53PX10



No. 2TJ27



No. 56LX11

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs								
70W MH/70W HPS Wattage Equivalency								
LED	27W	4,000 K	3600 lm	50,000 hr	Cylindrical	7 5⁄8 in	Philips	**55GY54**
100W MH/100W HPS Wattage Equivalency								
	50W	2,450 K	7150 lm	50,000 hr	Cylindrical	7 3⁄4 in	GE Current	**55GU11**
LED	50W	4,000 K	7500 lm	50,000 hr	ED37	7 3⁄4 in	GE Current	**429U45**
	50W	5,000 K	7500 lm	50,000 hr	ED37	7 3⁄4 in	GE Current	**429U46**
125W MH/125WHPS Wattage Equivalency								
LED	65W	4,000 K	7000 lm	50,000 hr	T140	10 1⁄2 in	Philips	**55GY63**
	65W	5,000 K	7000 lm	50,000 hr	T140	10 1⁄2 in	Philips	**55GY64**
150W MH/150W HPS Wattage Equivalency								
	24W	3,000 K	3431 lm	50,000 hr	Cylindrical	7 in	Light Efficient Design	**45PA92**
	24W	4,000 K	3374 lm	50,000 hr	Cylindrical	7 in	Light Efficient Design	**45PC23**
LED	24W	5,700 K	3374 lm	50,000 hr	Cylindrical	7 in	Light Efficient Design	**45PA93**
	24W	5,700 K	3425 lm	50,000 hr	Cylindrical	6 3⁄4 in	Light Efficient Design	**508G21**
	75W	4,000 K	8500 lm	50,000 hr	T140	10 1⁄2 in	Philips	**55GY61**
	75W	5,000 K	8500 lm	50,000 hr	T140	10 1⁄2 in	Philips	**55GY62**
175W MH/175W HPS Wattage Equivalency								
	30W	3,000 K	4050 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**508G08**
	30W	4,000 K	4350 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**508G09**
	30W	5,000 K	4350 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**499L95**
	45W	3,000 K	5525 lm	50,000 hr	High/Low Bay	7 1⁄2 in	Light Efficient Design	**508G02**
	45W	4,000 K	5334 lm	50,000 hr	High/Low Bay	7 1⁄2 in	Light Efficient Design	**508G03**
LED	45W	5,000 K	5560 lm	50,000 hr	High/Low Bay	7 1⁄2 in	Light Efficient Design	**508G04**
	50W	4,000 K	6460 lm	50,000 hr	Cylindrical	8 1⁄2 in	Light Efficient Design	**493U95**
	50W	5,000 K	7250 lm	50,000 hr	Cylindrical	8 1⁄2 in	Light Efficient Design	**493U96**
	60W	4,000 K	8800 lm	50,000 hr	Cylindrical	8 1⁄2 in	GE Current	**53DP61**
	80W	2,450 K	11,500 lm	50,000 hr	Cylindrical	7 3⁄4 in	GE Current	**55GU12**
	80W	4,000 K	12,000 lm	50,000 hr	ED37	7 3⁄4 in	GE Current	**429U47**
	80W	5,000 K	12,000 lm	50,000 hr	ED37	7 3⁄4 in	GE Current	**429U48**
200W INC/150W MH/150W HPS Wattage Equivalency								
	25W	3,000 K	3375 lm	50,000 hr	A23	6 1⁄16 in	Light Efficient Design	**55VR16**
LED	25W	4,000 K	3525 lm	50,000 hr	A23	6 1⁄16 in	Light Efficient Design	**55VR17**
	25W	5,000 K	3575 lm	50,000 hr	A23	6 1⁄16 in	Light Efficient Design	**55VR18**
250W MH/250W HPS Wattage Equivalency								
	45W	3,000 K	6075 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**508G11**
	45W	4,000 K	6525 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**508G12**
	45W	4,000 K	6930 lm	50,000 hr	Cylindrical	9 5⁄8 in	Light Efficient Design	**45PC20**
	45W	5,000 K	6525 lm	50,000 hr	Cylindrical	11 1⁄2 in	Light Efficient Design	**499L96**
	45W	5,700 K	6632 lm	50,000 hr	Cylindrical	9 5⁄8 in	Light Efficient Design	**45PA87**
	75W	3,000 K	9750 lm	50,000 hr	High/Low Bay	8 7⁄8 in	Light Efficient Design	**508G05**
	75W	4,000 K	10,500 lm	50,000 hr	High/Low Bay	8 7⁄8 in	Light Efficient Design	**508G06**
	75W	5,000 K	10,875 lm	50,000 hr	High/Low Bay	8 7⁄8 in	Light Efficient Design	**508G07**
LED	80W	4,000 K	11,800 lm	50,000 hr	Cylindrical	8 1⁄2 in	GE Current	**53DP59**
	80W	4,000 K	10,760 lm	50,000 hr	Cylindrical	8 3⁄8 in	Light Efficient Design	**493U97**
	80W	5,000 K	11,800 lm	50,000 hr	Cylindrical	8 1⁄2 in	GE Current	**53DP60**
	80W	5,000 K	10,850 lm	50,000 hr	Cylindrical	8 3⁄8 in	Light Efficient Design	**493U98**
	90W	4,000 K	11,825 lm	50,000 hr	High/Low Bay	9 3⁄8 in	Light Efficient Design	**54XJ70**
	90W	5,000 K	11,825 lm	50,000 hr	High/Low Bay	9 3⁄8 in	Light Efficient Design	**54XJ71**
	95W	4,000 K	12,900 lm	50,000 hr	High/Low Bay	9 3⁄4 in	Light Efficient Design	**45PC36**
	95W	5,000 K	13,000 lm	50,000 hr	High/Low Bay	9 3⁄4 in	Light Efficient Design	**45PC12**
	115W	4,000 K	18,000 lm	50,000 hr	ED37	8 3⁄8 in	GE Current	**429U49**
	115W	5,000 K	18,000 lm	50,000 hr	ED37	8 3⁄8 in	GE Current	**429U50**
Metal Halide	250 W	3,800 K	23,000 lm	15,000 hr	ED28	8 3⁄8 in	GE Current	**5NUP1**
	250 W	4,000 K	21,300 lm	10,000 hr	ED28	8 1⁄4 in	GE Current	**2PB28**
250W Probe/Pulse Ballast Wattage Equivalency								
LED	100W	4,000 K	11,046 lm	50,000 hr	High/Low Bay	8 in	Light Efficient Design	**53PX10**

CONTINUED

PHILIPS GE current a Daintree company Light Efficient Design

EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
320W MH/320W HPS Wattage Equivalency								
LED	65W	3,000 K	8775 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	**508G14**
	65W	4,000 K	9425 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	**508G15**
	65W	4,000 K	9587 lm	50,000 hr	Cylindrical	11 in	Light Efficient Design	**45PC26**
	65W	4,000 K	8550 lm	50,000 hr	Cylindrical	11 in	Light Efficient Design	**55VR25**
	65W	5,000 K	9425 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	**499L97**
	65W	5,700 K	9499 lm	50,000 hr	Cylindrical	11 in	Light Efficient Design	**45PA99**
Metal Halide	320 W	3,700 K	30,600 lm	20,000 hr	ED28	8 ¼ in	GE Current	**2TJ27**
	320 W	4,000 K	32,000 lm	20,000 hr	ED37	11 ½ in	GE Current	**6XV27**
320W Probe/Pulse Ballast Wattage Equivalency								
LED	100W	5,700 K	10,096 lm	50,000 hr	High/Low Bay	8 in	Light Efficient Design	**53PX11**
400W MH/400W HPS Wattage Equivalency								
LED	110W	4,000 K	15,430 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	**493U99**
	110W	5,000 K	14,570 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	**493V01**
	130W	4,000 K	18,500 lm	50,000 hr	Cylindrical	8 ½ in	GE Current	**53DP57**
	130W	5,000 K	18,500 lm	50,000 hr	Cylindrical	8 ½ in	GE Current	**53DP58**
	135W	4,000 K	17,055 lm	50,000 hr	High/Low Bay	10 in	Light Efficient Design	**54XJ68**
	135W	5,000 K	17,095 lm	50,000 hr	High/Low Bay	10 in	Light Efficient Design	**54XJ69**
	140W	4,000 K	19,200 lm	50,000 hr	High/Low Bay	10 ½ in	Light Efficient Design	**45PC35**
	140W	5,000 K	19,500 lm	50,000 hr	High/Low Bay	10 ½ in	Light Efficient Design	**45PC11**
	150W	4,000 K	23,500 lm	50,000 hr	ED37	8 ⅜ in	GE Current	**429U51**
	150W	4,000 K	19,285 lm	50,000 hr	High/Low Bay	10 in	Light Efficient Design	**54XJ66**
	150W	5,000 K	23,500 lm	50,000 hr	ED37	8 ⅜ in	GE Current	**429U52**
	150W	5,000 K	19,375 lm	50,000 hr	High/Low Bay	10 in	Light Efficient Design	**54XJ67**
	165W	4,000 K	19,000 lm	50,000 hr	High/Low Bay	9 ⅝ in	Philips	**53XG02**
	165W	4,000 K	20,000 lm	50,000 hr	High/Low Bay	9 ⅝ in	Philips	**53XF99**
	165W	4,000 K	20,000 lm	50,000 hr	High/Low Bay	9 ⅝ in	Philips	**53XG01**
	165W	4,000 K	19,000 lm	50,000 hr	High/Low Bay	9 ⅝ in	Philips	**53XG03**
Metal Halide	400 W	3,500 K	40,000 lm	20,000 hr	ED37	1 in	Philips	**492Y61**
	400 W	3,600 K	38,000 lm	20,000 hr	ED37	11 ½ in	GE Current	**2F202**
	400 W	3,700 K	40,000 lm	20,000 hr	ED37	11 ½ in	GE Current	**1PCY8**
	400 W	3,800 K	40,000 lm	20,000 hr	ED37	11 ½ in	GE Current	**1E099**
	400 W	4,000 K	40,000 lm	20,000 hr	ED37	11 ½ in	Philips	**492Y83**
	400 W	4,000 K	42,000 lm	20,000 hr	ED37	11 ½ in	GE Current	**6XV25**
400W Probe/Pulse Ballast Wattage Equivalency								
LED	140W	4,000 K	18,619 lm	50,000 hr	High/Low Bay	9 ⅛ in	Light Efficient Design	**53PX04**
	140W	5,700 K	17,047 lm	50,000 hr	High/Low Bay	9 ⅛ in	Light Efficient Design	**53PX05**
1000W MH/1000W HPS Wattage Equivalency								
LED	270W	4,000 K	40,000 lm	50,000 hr	BT56	12 ¼ in	GE Current	**493V22**
	270W	4,000 K	34,415 lm	50,000 hr	High/Low Bay	12 ½ in	Light Efficient Design	**55VR34**
	270W	5,000 K	40,000 lm	50,000 hr	BT56	12 ¼ in	GE Current	**493V23**
	450W	4,000 K	65,000 lm	50,000 hr	BT56	12 ¼ in	GE Current	**493V24**
	450W	5,000 K	65,000 lm	50,000 hr	BT56	12 ¼ in	GE Current	**493V25**
Metal Halide	1,000 W	3,500 K	107,000 lm	12,000 hr	BT56	15 ⅛ in	Philips	**492Y72**
	1,000 W	3,500 K	110,000 lm	12,000 hr	BT56	15 ⅜ in	GE Current	**5XP29**
Shatter-Resistant HID Light Bulbs								
150W/175W MH Wattage Equivalency								
LED	45W	3000K	6200 lm	50,000 hr.	Corn Cob	9¾"	Philips	**56LX11**
150W HPS, 150W MH Wattage Equivalency								
LED	36W	3000K	5000 lm	50,000 hr.	Corn Cob	8⅜"	Philips	**56LX14**
175W/250W MH Wattage Equivalency								
LED	60W	4000K	8700 lm	50,000 hr.	Corn Cob	10⅝"	Philips	**56LX17**
	63W	4000K	9000 lm	50,000 hr.	Corn Cob	10¼"	Philips	**56LX12**
	80W	4000K	12,000 lm	50,000 hr.	Corn Cob	7¾"	Philips	**56LX18**
175W MH/175W HPS Wattage Equivalency								
LED	40W	4000K	5800 lm	50,000 hr.	Corn Cob	8½"	Philips	**56LX16**
250W/320W MH Wattage Equivalency								
LED	115W	4000K	18,000 lm	50,000 hr.	Corn Cob	8⅜"	Philips	**56LX13**
250W MH/250W HPS Wattage Equivalency								
LED	145W	4000K	19,000 lm	50,000 hr.	High/Low Bay	10"	Philips	**56LX20**
	145W	5000K	19,000 lm	50,000 hr.	High/Low Bay	10"	Philips	**56LX21**

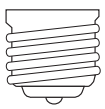
GRAINGER CATALOGS
Are Digital Too!
- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



GE current a Daintree company | PHILIPS | Light Efficient Design | LumaPro

E39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

These light bulbs have an E39 mogul screw base with a 39mm dia. They screw into standard E39 sockets, which are typically found on enclosed fixtures. E39 mogul screw-base HID and LED HID-replacement are used in fixtures with a high mounting height, such as street lights, floodlights, and high-bay and low-bay lights in warehouses and convention centers.



Mogul Screw (E39) Base



No. 45PC17



No. 492Y79



No. 2V358

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
E39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs								
50W HPS Wattage Equivalency								
High Pressure Sodium	50 W	1,900 K	4,000 lm	24,000 hr	ED23-1/2	7 ¾ in	GE Current	1C292
70W HPS Wattage Equivalency								
High Pressure Sodium	70 W	1,900 K	6,400 lm	24,000 hr	ED23-1/2	7 ¾ in	GE Current	2VAD4
	70 W	1,900 K	6,300 lm	30,000 hr	ED23-1/2	7 ¾ in	GE Current	5XN37
	70 W	2,100 K	6,800 lm	24,000 hr	ED23-1/2	7 ¾ in	Philips	492Y55
100W MH/100W HPS Wattage Equivalency								
LED	30W	2,700 K	2537 lm	50,000 hr	Cylindrical	6 ⅞ in	Light Efficient Design	45PC17
	30W	4,200 K	2841 lm	50,000 hr	Cylindrical	7 ⅛ in	Light Efficient Design	45PC39
	30W	5,700 K	2885 lm	50,000 hr	Cylindrical	6 ⅞ in	Light Efficient Design	45PC18
High Pressure Sodium	100 W	2,000 K	9,500 lm	24,000 hr	ED23-1/2	7 ¾ in	GE Current	2VAD5
	100 W	2,000 K	10,500 lm	30,000 hr	ED23-1/2	7 ¾ in	GE Current	5XN38
	100 W	2,000 K	9,500 lm	40,000 hr	ED23-1/2	7 ¾ in	GE Current	6ZFX5
	100 W	2,100 K	9,400 lm	24,000 hr	ED23-1/2	7 ¾ in	Philips	492Y53
Mercury Vapor	100 W	3,900 K	4,000 lm	20,000 hr	ED23-1/2	7 ½ in	GE Current	2V477
145W MH Wattage Equivalency								
Metal Halide	145 W	4,000 K	13,775 lm	20,000 hr	ED28	8 ⅜ in	Philips	492Y79
150W MH/150W HPS Wattage Equivalency								
High Pressure Sodium	150 W	2,000 K	16,000 lm	24,000 hr	ED23-1/2	7 ¾ in	GE Current	2VAD7
	150 W	2,000 K	15,000 lm	24,000 hr	ED28	8 ⅜ in	GE Current	4V593
	150 W	2,000 K	16,000 lm	30,000 hr	ED23-1/2	7 ⅞ in	GE Current	5XN69
	150 W	2,000 K	16,000 lm	40,000 hr	ED23-1/2	7 ¾ in	GE Current	6ZFX6
	150 W	2,100 K	16,000 lm	24,000 hr	ED23-1/2	7 ¾ in	Philips	492Y54
Metal Halide	150 W	4,000 K	13,500 lm	7,500 hr	ED28	8 ¼ in	GE Current	2F192
175W MH/175W HPS Wattage Equivalency								
LED	50W	3,000 K	3506 lm	50,000 hr	Cylindrical	7 ⅛ in	Light Efficient Design	45PC13
	50W	4,000 K	5188 lm	50,000 hr	Cylindrical	8 ½ in	Light Efficient Design	53PX12
	50W	4,200 K	4341 lm	50,000 hr	Cylindrical	7 ⅛ in	Light Efficient Design	45PC37
	50W	5,000 K	4886 lm	50,000 hr	Cylindrical	7 ⅛ in	Light Efficient Design	45PC14
	50W	5,700 K	6282 lm	50,000 hr	Cylindrical	8 ½ in	Light Efficient Design	53PX13
Metal Halide	175 W	3,900 K	12,900 lm	10,000 hr	ED28	8 ¼ in	GE Current	5V691
	175 W	4,000 K	14,700 lm	10,000 hr	ED28	8 ¼ in	Philips	492Y80
	175 W	4,000 K	13,600 lm	10,000 hr	ED28	8 ¼ in	GE Current	4V550
	175 W	4,000 K	15,700 lm	10,000 hr	ED28	8 ¼ in	GE Current	2TJ26
	175 W	4,000 K	14,700 lm	10,000 hr	ED28	8 ⅜ in	LumaPro	54EP74
	175 W	4,200 K	17,500 lm	15,000 hr	ED23-1/2	7 ½ in	GE Current	1E686
200W HPS Wattage Equivalency								
High Pressure Sodium	200 W	2,100 K	22,000 lm	24,000 hr	ED18	9 ¾ in	GE Current	3APT4
250W MH/250W HPS Wattage Equivalency								
LED	45W	3,000 K	5893 lm	50,000 hr	Cylindrical	9 ⅝ in	Light Efficient Design	416J56
	80W	4,000 K	7941 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	53PX14
	80W	5,000 K	7635 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	53PX15
High Pressure Sodium	250 W	2,000 K	29,000 lm	40,000 hr	ED18	9 ⅞ in	GE Current	5XN39
	250 W	2,100 K	28,000 lm	24,000 hr	ED18	9 ¾ in	GE Current	3APT5
	250 W	2,100 K	28,500 lm	24,000 hr	ED18	9 ¾ in	Philips	492Y49
Mercury Vapor	250 W	3,900 K	11,200 lm	20,000 hr	ED28	8 ¼ in	GE Current	2V449
Metal Halide	250 W	3,900 K	13,000 lm	10,000 hr	ED28	8 ¼ in	GE Current	4V561
	250 W	3,900 K	22,400 lm	15,000 hr	ED28	8 ¼ in	GE Current	5GTN0
	250 W	4,000 K	21,250 lm	10,000 hr	ED28	1 in	Philips	492Y81
	250 W	4,200 K	20,800 lm	10,000 hr	ED28	8 ¼ in	GE Current	2V712
	250 W	4,200 K	23,000 lm	15,000 hr	ED28	8 ¼ in	GE Current	4PL07
	250 W	4,500 K	18,500 lm	10,000 hr	ED28	8 ¼ in	GE Current	1E643
320W MH Wattage Equivalency								
Metal Halide	320 W	4,000 K	31,000 lm	20,000 hr	ED28	8 ¼ in	GE Current	4WW54
	320 W	4,100 K	30,000 lm	20,000 hr	ED28	1 in	Philips	492Y59
360W MH Wattage Equivalency								
Metal Halide	360 W	4,200 K	37,000 lm	20,000 hr	ED37	11 ⅜ in	GE Current	5XN60
400W MH/400W HPS Wattage Equivalency								
LED	100W	3,000 K	12,486 lm	50,000 hr	Cylindrical	12 in	Light Efficient Design	416J57
	100W	4,000 K	14,666 lm	50,000 hr	Cylindrical	12 in	Light Efficient Design	416J58
	100W	5,700 K	14,613 lm	50,000 hr	Cylindrical	12 in	Light Efficient Design	416J59
	120W	4,000 K	9929 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	53PX16
	120W	5,000 K	10,810 lm	50,000 hr	Cylindrical	11 ½ in	Light Efficient Design	53PX17
High Pressure Sodium	400 W	2,100 K	54,000 lm	30,000 hr	ED18	9 ⅞ in	GE Current	5XN40
	400 W	2,100 K	51,000 lm	24,000 hr	ED18	9 ¾ in	GE Current	3APT6
	400 W	2,100 K	50,000 lm	24,000 hr	ED18	9 ¾ in	Philips	492Y50
	400 W	2,100 K	50,000 lm	40,000 hr	ED18	9 ¾ in	Philips	492Y51
	400 W	2,100 K	50,000 lm	30,000 hr	ED18	9 ¾ in	Philips	492Y52
Ceramic Metal Halide	400 W	3,000 K	41,000 lm	20,000 hr	ED18	9 ¾ in	GE Current	1TJT2
Metal Halide	400 W	3,700 K	35,000 lm	20,000 hr	ED37	11 ½ in	GE Current	4V603
Mercury Vapor	400 W	3,900 K	22,600 lm	20,000 hr	ED37	11 ⅜ in	GE Current	2V358
Metal Halide	400 W	4,000 K	40,000 lm	20,000 hr	ED28	1 in	Philips	492Y60
	400 W	4,000 K	40,000 lm	20,000 hr	ED37	1 in	Philips	492Y62
	400 W	4,000 K	36,000 lm	20,000 hr	ED28	1 in	Philips	492Y70
	400 W	4,000 K	39,000 lm	20,000 hr	ED37	11 ½ in	Philips	492Y82
	400 W	4,000 K	36,000 lm	20,000 hr	ED37	11 ½ in	GE Current	2V658
	400 W	4,000 K	39,400 lm	20,000 hr	ED28	8 ⅜ in	GE Current	4WW46
	400 W	4,000 K	36,000 lm	20,000 hr	ED37	11 ½ in	GE Current	5GTN1
	400 W	4,000 K	36,000 lm	20,000 hr	ED28	8 ¼ in	GE Current	5V658
	400 W	4,000 K	35,000 lm	20,000 hr	ED28	8 ¼ in	GE Current	1K425
	400 W	4,000 K	44,000 lm	20,000 hr	ED37	11 ⅜ in	GE Current	3JJ96
	400 W	4,000 K	44,000 lm	20,000 hr	ED28	8 ¼ in	GE Current	6XV24
	400 W	4,000 K	41,000 lm	20,000 hr	ED28	8 ⅜ in	GE Current	5XN65
	400 W	4,100 K	38,000 lm	20,000 hr	ED28	8 ⅜ in	GE Current	3APK3
	400 W	4,500 K	37,600 lm	20,000 hr	ED37	11 ½ in	GE Current	1E639
Mercury Vapor	400 W	5,700 K	21,000 lm	20,000 hr	ED37	11 ⅜ in	GE Current	4V519
750W MH/750W HPS Wattage Equivalency								
High Pressure Sodium	750 W	2,100 K	110,000 lm	24,000 hr	ED37	11 ½ in	GE Current	4HP19
Metal Halide	750 W	4,000 K	82,000 lm	16,000 hr	BT37	11 ½ in	GE Current	6XT44
1000W MH/1000W HPS Wattage Equivalency								
High Pressure Sodium	1,000 W	2,100 K	130,000 lm	24,000 hr	ED25	15 in	GE Current	2V754
	1,000 W	2,100 K	135,000 lm	24,000 hr	E25	15 in	Philips	492Y48
Metal Halide	1,000 W	3,700 K	105,000 lm	15,000 hr	BT56	15 ⅜ in	GE Current	4V565
	1,000 W	3,700 K	115,000 lm	12,000 hr	BT37	11 ½ in	GE Current	3JK41
	1,000 W	4,000 K	110,000 lm	12,000 hr	BT37	11 ½ in	Philips	492Y57
	1,000 W	4,000 K	110,000 lm	12,000 hr	BT56	13 ¼ in	Philips	492Y71
	1,000 W	4,000 K	108,000 lm	15,000 hr	BT56	15 ⅜ in	GE Current	2V659
	1,000 W	4,000 K	120,000 lm	15,000 hr	BT37	11 ½ in	Philips	492Y58
1500W MH Wattage Equivalency								
Metal Halide	1,500 W	4,000 K	170,000 lm	6,000 hr	BT56	13 ¼ in	Philips	492Y73
	1,500 W	4,000 K	170,000 lm	3,000 hr	BT56	15 ⅜ in	GE Current	4V484



No. 492Y38



No. 493U91



No. 54EP62



No. 53PX08



Medium Screw (E26) Base

GE current a Daintree company PHILIPS
LumaPro Light Efficient Design

E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs

The most commonly used type of light bulb base, an E26 medium screw base has a 26mm dia. and screws into a compatible socket. E26 medium screw-base HID and LED HID-replacement bulbs are commonly used in post tops and bollards.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs								
20W MH Wattage Equivalency								
Ceramic Metal Halide	20 W	3,000 K	1,000 lm	12,000 hr	PAR20	3 ⅝ in	GE Current	**1TJR1**
	20 W	3,000 K	1,000 lm	12,000 hr	PAR20	3 ⅝ in	GE Current	**1TJP9**
Metal Halide	20 W	3,000 K	1,200 lm	12,000 hr	PAR30L	4 ¾ in	GE Current	**2TJ29**
35W MH/35W HPS Wattage Equivalency								
Metal Halide	35 W	3,000 K	2,000 lm	15,000 hr	PAR20	2 ½ in	Philips	**492Y38**
39W MH Wattage Equivalency								
Metal Halide	39 W	3,000 K	2,100 lm	10,000 hr	PAR20	3 ⅝ in	GE Current	**6XT76**
	39 W	3,000 K	2,400 lm	10,000 hr	PAR30L	4 ¾ in	GE Current	**5XP47**
	39 W	3,000 K	2,400 lm	10,000 hr	PAR30L	4 ¾ in	GE Current	**5XP48**
50W MH/50W HPS Wattage Equivalency								
High Pressure Sodium	50 W	1,900 K	4,000 lm	24,000 hr	ED17	5 ½ in	GE Current	**2V657**
	50 W	2,100 K	4,000 lm	24,000 hr	BD17	5 ⅛ in	Philips	**492Y46**
Ceramic Metal Halide	50 W	3,000 K	5,300 lm	16,000 hr	ED17	5 ½ in	LumaPro	**54EP81**
Metal Halide	50 W	3,000 K	4,800 lm	16,000 hr	ED17P	5 ½ in	Philips	**492Y77**
	50 W	3,500 K	3,200 lm	10,000 hr	ED17	5 ½ in	GE Current	**6XT91**
	50 W	3,700 K	3,200 lm	10,000 hr	BD17	5 ½ in	GE Current	**1F398**
	50 W	4,200 K	5,000 lm	20,000 hr	ED17	5 ½ in	Philips	**492Y56**
70W MH/70W HPS Wattage Equivalency								
LED	14W	3,000 K	1840 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**53PX24**
	14W	4,000 K	2065 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**53PX25**
	14W	5,700 K	2217 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**53PX26**
	21W	4,000 K	3000 lm	50,000 hr	ED17	5 ½ in	GE Current	**472Z16**
	21W	5,000 K	3000 lm	50,000 hr	ED17	5 ½ in	GE Current	**472Z17**
	35W	4,000 K	5000 lm	50,000 hr	ED17	5 ½ in	GE Current	**472Z18**
	35W	5,000 K	5000 lm	50,000 hr	ED17	5 ½ in	GE Current	**472Z19**
	45W	3,000 K	4800 lm	50,000 hr	T160	10 ½ in	Philips	**55GY66**
	45W	4,000 K	4800 lm	50,000 hr	T160	10 ½ in	Philips	**55GY67**
	45W	5,000 K	4800 lm	50,000 hr	T160	10 ½ in	Philips	**55GY65**
High Pressure Sodium	70 W	1,900 K	6,400 lm	24,000 hr	ED17	5 ½ in	GE Current	**2V632**
	70 W	2,100 K	6,500 lm	24,000 hr	BD17	5 ⅛ in	Philips	**492Y47**
Ceramic Metal Halide	70 W	3,000 K	6,300 lm	15,000 hr	BD17	5 ½ in	GE Current	**2DZX4**
Metal Halide	70 W	3,000 K	5,300 lm	15,000 hr	ED17	5 ½ in	GE Current	**5HB92**
	70 W	3,000 K	4,700 lm	13,000 hr	PAR30L	4 ¾ in	GE Current	**4LV87**
	70 W	3,000 K	4,700 lm	13,000 hr	PAR30L	4 ¾ in	GE Current	**4LV88**
	70 W	3,000 K	7,700 lm	16,000 hr	BD17	1 in	Philips	**492Y69**
	70 W	3,000 K	6,700 lm	16,000 hr	ED17P	5 ½ in	Philips	**492Y78**
	70 W	3,200 K	5,500 lm	15,000 hr	ED17	5 ½ in	GE Current	**2F942**
	70 W	3,200 K	4,900 lm	15,000 hr	ED17	5 ½ in	GE Current	**2F968**
	70 W	3,500 K	5,500 lm	12,000 hr	BD17	5 ½ in	GE Current	**6V746**
	70 W	4,000 K	5,600 lm	12,000 hr	BD17	1 in	Philips	**492Y68**
	70 W	4,000 K	5,500 lm	12,000 hr	BD17	5 ½ in	GE Current	**1E694**
100W MH/100W HPS Wattage Equivalency								
LED	18W	3,000 K	2758 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**45PA96**
	18W	4,000 K	2983 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**45PC25**
	18W	5,700 K	2465 lm	50,000 hr	Cylindrical	6 ⅜ in	Light Efficient Design	**45PA97**
	30W	2,700 K	2537 lm	50,000 hr	Cylindrical	5 ⅞ in	Light Efficient Design	**45PC15**
	30W	4,000 K	4260 lm	50,000 hr	Cylindrical	5 ½ in	Light Efficient Design	**493U91**
	30W	4,200 K	2841 lm	50,000 hr	Cylindrical	5 ⅞ in	Light Efficient Design	**45PC38**
	30W	5,000 K	4255 lm	50,000 hr	Cylindrical	5 ½ in	Light Efficient Design	**493U92**
	30W	5,700 K	2885 lm	50,000 hr	Cylindrical	5 ⅞ in	Light Efficient Design	**45PC16**
	50W	4,000 K	7500 lm	50,000 hr	ED37	7 ¾ in	GE Current	**429U43**
High Pressure Sodium	100 W	2,000 K	9,500 lm	24,000 hr	ED17	5 ½ in	GE Current	**4V604**
	100 W	2,100 K	9,200 lm	24,000 hr	BD17	5 ⅛ in	Philips	**492Y44**
Ceramic Metal Halide	100 W	3,000 K	9,200 lm	10,000 hr	BD17	5 ½ in	GE Current	**5XN44**
Metal Halide	100 W	3,000 K	11,000 lm	16,000 hr	ED17	5 ½ in	Philips	**492Y64**
	100 W	3,000 K	10,000 lm	16,000 hr	ED17P	5 ½ in	Philips	**492Y74**
	100 W	3,000 K	9,200 lm	16,000 hr	ED17P	5 ½ in	Philips	**492Y75**
	100 W	3,200 K	8,500 lm	15,000 hr	ED17	5 ½ in	GE Current	**6V748**
	100 W	3,200 K	9,000 lm	15,000 hr	ED17	5 ½ in	GE Current	**6V749**
	100 W	3,200 K	9,000 lm	15,000 hr	ED17	5 ½ in	GE Current	**2F944**
	100 W	3,200 K	8,500 lm	15,000 hr	ED17	5 ½ in	GE Current	**2F970**
Mercury Vapor	100 W	3,900 K	4,000 lm	20,000 hr	ED17	5 ½ in	GE Current	**1E245**
Metal Halide	100 W	4,000 K	9,000 lm	15,000 hr	BD17	1 in	Philips	**492Y63**
	100 W	4,000 K	8,100 lm	15,000 hr	ED17	5 ½ in	GE Current	**1E674**

CONTINUED

CONTINUED

GE current a Daintree company | PHILIPS | LumaPro | Light Efficient Design

E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
150W MH/150W HPS Wattage Equivalency								
LED	24W	3,000 K	3024 lm	50,000 hr	Cylindrical	6 ⅝ in	Light Efficient Design	**45PA90**
	24W	4,000 K	3422 lm	50,000 hr	Cylindrical	6 ⅝ in	Light Efficient Design	**45PC22**
	24W	5,700 K	3425 lm	50,000 hr	Cylindrical	6 ¾ in	Light Efficient Design	**508G20**
	24W	5,700 K	3425 lm	50,000 hr	Cylindrical	6 ⅝ in	Light Efficient Design	**45PA91**
High Pressure Sodium	150 W	2,000 K	16,000 lm	24,000 hr	ED17	5 ¾ in	GE Current	**2V713**
	150 W	2,100 K	16,000 lm	24,000 hr	BD17	5 ⅛ in	Philips	**492Y45**
Metal Halide	150 W	2,900 K	12,900 lm	10,000 hr	ED17P	1 in	Philips	**492Y76**
Ceramic Metal Halide	150 W	3,000 K	12,900 lm	12,000 hr	ED17	5 ½ in	GE Current	**5HB87**
Metal Halide	150 W	3,400 K	13,300 lm	15,000 hr	BD17	5 ½ in	GE Current	**1G980**
	150 W	3,500 K	12,500 lm	15,000 hr	ED17	5 ½ in	GE Current	**6XT93**
	150 W	4,000 K	13,500 lm	15,000 hr	BD17	1 in	Philips	**492Y65**
	150 W	4,000 K	13,000 lm	20,000 hr	ED17	5 ½ in	Philips	**492Y66**
	150 W	4,000 K	8,100 lm	15,000 hr	BD17	5 ½ in	LumaPro	**54EP61**
	150 W	4,300 K	14,000 lm	15,000 hr	BD17	5 ½ in	GE Current	**1E690**
175W MH/175W HPS Wattage Equivalency								
LED	35W	3,000 K	4239 lm	50,000 hr	Cylindrical	8 ⅜ in	Light Efficient Design	**416J60**
	35W	4,000 K	5468 lm	50,000 hr	Cylindrical	8 ⅜ in	Light Efficient Design	**416J61**
	35W	5,700 K	5617 lm	50,000 hr	Cylindrical	8 ⅜ in	Light Efficient Design	**416J62**
	50W	4,000 K	5188 lm	50,000 hr	Cylindrical	8 in	Light Efficient Design	**53PX22**
	50W	4,000 K	6460 lm	50,000 hr	Cylindrical	8 in	Light Efficient Design	**493U93**
	50W	5,000 K	7250 lm	50,000 hr	Cylindrical	8 in	Light Efficient Design	**493U94**
	50W	5,700 K	6282 lm	50,000 hr	Cylindrical	8 in	Light Efficient Design	**53PX23**
	52W	4,200 K	5498 lm	50,000 hr	High/Low Bay	6 ⅛ in	Light Efficient Design	**45PC32**
	60W	4,000 K	6684 lm	50,000 hr	High/Low Bay	6 ⅛ in	Light Efficient Design	**55VR23**
	60W	5,700 K	7062 lm	50,000 hr	High/Low Bay	6 ⅛ in	Light Efficient Design	**55VR24**
	80W	4,000 K	12,000 lm	50,000 hr	ED37	7 ¾ in	GE Current	**429U44**
Metal Halide	175 W	3,900 K	12,900 lm	10,000 hr	BD17	5 ¾ in	GE Current	**6V752**
	175 W	4,000 K	14,000 lm	10,000 hr	BD17	5 ½ in	Philips	**492Y67**
	175 W	4,000 K	13,600 lm	10,000 hr	BD17	5 ¾ in	GE Current	**6V751**
	175 W	4,000 K	17,500 lm	15,000 hr	BD17	5 ¾ in	GE Current	**3JJ92**
	175 W	4,000 K	14,000 lm	10,000 hr	BD17	5 ½ in	LumaPro	**54EP62**
250W MH/250W HPS Wattage Equivalency								
LED	45W	3,000 K	6062 lm	50,000 hr	Cylindrical	9 ½ in	Light Efficient Design	**416J53**
	45W	4,000 K	6924 lm	50,000 hr	Cylindrical	9 ½ in	Light Efficient Design	**416J54**
	45W	4,000 K	5950 lm	50,000 hr	Cylindrical	9 ½ in	Light Efficient Design	**55VR22**
	45W	5,700 K	6619 lm	50,000 hr	Cylindrical	9 ½ in	Light Efficient Design	**416J55**
250W Probe/Pulse Ballast Wattage Equivalency								
LED	60W	4,000 K	5773 lm	50,000 hr	High/Low Bay	6 ⅛ in	Light Efficient Design	**53PX08**
	60W	4,000 K	5266 lm	50,000 hr	High/Low Bay	6 ⅛ in	Light Efficient Design	**53PX09**

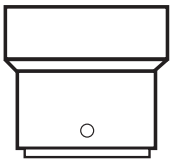
Light Efficient Design

B22d Bayonet-Base LED HID-Replacement Light Bulbs

The B22d bayonet base on these light bulbs is a 22mm-dia. base with two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted. These LED bulbs replace low-pressure sodium (LPS or S0X) HID bulbs in outdoor light fixtures.



No. 55VR26



Bayonet Base (B22d) Base

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Base Type	Overall Length	Item No.
B22d Bayonet-Base HID & LED HID-Replacement Light Bulbs								
35W LPS S0X Wattage Equivalency								
LED	20W	2,200 K	2030 lm	50,000 hr	T17	Bayonet Base (B22d)	12 ¼ in	**55VR26**
	20W	4,000 K	3022 lm	50,000 hr	T17	Bayonet Base (B22d)	12 ¼ in	**55VR27**
55W LPS S0X Wattage Equivalency								
LED	35W	2,200 K	3232 lm	50,000 hr	T17	Bayonet Base (B22d)	16 ¾	**55VR28**
	35W	4,000 K	5156 lm	50,000 hr	T17	Bayonet Base (B22d)	16 ¾	**55VR29**
90W LPS S0X Wattage Equivalency								
LED	60W	2,200 K	5769 lm	50,000 hr	T17	Bayonet Base (B22d)	20 ½ in	**55VR30**
180W LPS S0X Wattage Equivalency								
LED	100W	2,200 K	11,576 lm	50,000 hr	T17	Bayonet Base (B22d)	43 ½ in	**55VR32**



GE current, a Daintree company | PHILIPS

G12 2-Pin Base HID Light Bulbs

The G12 base on these light bulbs has two pins that are 12mm apart. Compact G12 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
G12 2-Pin Base HID Light Bulbs								
20W MH Wattage Equivalency								
Ceramic Metal Halide	20 W	3,000 K	1,650 lm	12,000 hr	T4-1/2	3 ⅜ in	GE Current	**1TJR5**
35W MH Wattage Equivalency								
Metal Halide	35 W	3,000 K	3,300 lm	12,000 hr	T6	1 in	Philips	**492Y41**
39W MH Wattage Equivalency								
Metal Halide	39 W	3,000 K	3,400 lm	15,000 hr	T4-1/2	3 ½ in	GE Current	**5HB79**
70W MH Wattage Equivalency								
Metal Halide	70 W	3,000 K	6,200 lm	15,000 hr	T6	3 ½ in	GE Current	**5HB80**
	70 W	3,000 K	6,600 lm	12,000 hr	T6	3 ⅞ in	Philips	**492Y43**
	70 W	4,200 K	6,300 lm	15,000 hr	T6	3 ⅝ in	GE Current	**5HB81**
150W MH Wattage Equivalency								
Ceramic Metal Halide	150 W	3,000 K	14,000 lm	12,000 hr	T6	3 ⅞ in	GE Current	**5HB82**
Metal Halide	150 W	3,000 K	13,000 lm	12,000 hr	T6	1 in	Philips	**492Y42**
Ceramic Metal Halide	150 W	4,200 K	13,000 lm	12,000 hr	T6	3 ⅞ in	GE Current	**5HB83**



GE current, a Daintree company | PHILIPS

G8.5 2-Pin Base HID Light Bulbs

The G8.5 base on these light bulbs has two pins that are 8.5mm apart. Compact G8.5 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
G8.5 2-Pin Base HID Light Bulbs								
20W MH Wattage Equivalency								
Ceramic Metal Halide	20 W	3,000 K	1,650 lm	12,000 hr	T4-1/2	3 ⅜ in	GE Current	**1RD93**
35W MH Wattage Equivalency								
Metal Halide	35 W	3,000 K	3,300 lm	12,000 hr	T4	1 in	Philips	**492Y40**
39W MH Wattage Equivalency								
Metal Halide	39 W	3,000 K	3,400 lm	16,500 hr	T4-1/2	3 ⅜ in	GE Current	**4DA27**
70W MH Wattage Equivalency								
Metal Halide	70 W	3,000 K	6,200 lm	15,000 hr	T4-1/2	3 ⅜ in	GE Current	**2DZX8**



GE current, a Daintree company | PHILIPS

GU6.5 2-Pin Base HID Light Bulbs

The GU6.5 base on these light bulbs has two pins that are 6.5mm apart. Compact GU6.5 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	Brand	Item No.
GU6.5 2-Pin Base HID Light Bulbs								
20W MH Wattage Equivalency								
Ceramic Metal Halide	20 W	3,000 K	1,615 lm	12,000 hr	T4	2 ⅛ in	GE Current	**1TJR6**
Metal Halide	20 W	3,000 K	1,800 lm	20,000 hr	T4	2 ½ in	Philips	**492Y39**
39W MH Wattage Equivalency								
Metal Halide	39 W	3,000 K	3,400 lm	10,000 hr	T4	2 ⅛ in	GE Current	**3DXR7**


Mogul Screw (E39) Base


No. 40HX09

shat-r-shield INC. The Protective Lighting Company

Shatter-Resistant HID Light Bulbs

A surface coating keeps broken glass, mercury, and phosphors contained if the bulbs burst or break, which prevents these harmful contaminants from spreading into the surrounding area. Shatter-resistant HID light bulbs are used in manufacturing plants, food-processing facilities, and other settings where product contamination must be avoided. They are also used in areas where they may be exposed to shaking or impacts.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Base Type	Overall Length	Item No.
Shatter-Resistant HID Light Bulbs								
250W MH Wattage Equivalency								
Metal Halide	250 W	4,000 K	21,000 lm	10,000 hr	ED28	Mogul Screw (E39)	8 ¼ in	**40HX08**
400W MH Wattage Equivalency								
Metal Halide	400 W	3,600 K	40,000 lm	20,000 hr	BT37	Mogul Screw (E39)	11 ½ in	**9UCM7**
	400 W	4,000 K	36,000 lm	20,000 hr	ED37	Mogul Screw (E39)	11 ½ in	**40HX09**

AIRCYCLE

Bulb Eater® Lamp Crushing Systems and Accessories



Bulb Eater 3
No. 20VR90



No. 401M81

Units safely crush fluorescent lamps into 100% recyclable material. Activated carbon and dust filters capture and neutralize over 99.99% of mercury vapors released in the process. Systems include one straight lamp tube, filter combo kit, spinner assembly, and carbon filter. No. 20VR90 accepts all fluorescent lamps when No. 20VR91 is added.

Notes: Use and recycling of the crushed lamps is regulated by the EPA. Not available in CA, CT, ME, MN, MO, NH, PA, RI, VT, WV. Permits required in NJ and MI; application required in TXand VA.

Lamps must be crushed in building where used.

Description	Lamp Crushing Capacity 4ft. T8	4ft. T12	4ft. T17	8ft. T12	4ft.T12 U-Shape	Mfr. Model	Item No.
Light Bulb & Lamp Crushers							
Bulb Eater 3, Four Stage Filter System, On Board Controls with Intelli Technology	1350	875	300	400	450	333-200-120	**20VR90**
Bulb Eater 3L, Four Stage Filter System, On Board Controls with Intelli Technology	1350	875	300	400	550	333-100-120	**401M81**

Description	Mfr. Model	Item No.
Light Bulb & Lamp Crusher Accessories		
For Use With Mfr. No. 330-010, 330-005, 330-007		
Bag Filters,20 Included	55-310	**4AVG1**
Filter Combo Kit Includes 20 Bag Filters and 1 HEPA Filter	55-330	**4AVF9**
Filter Combo Kit with Spinner Includes 20 Bag Filters, 1 HEPA Filter, and Replacement Spinner	55-131	**4AVG5**
Jumbo Filter Combo Kit	55-333	**4AVG3**
Spinner Assembly	55-132	**4AVG4**
For Use With Mfr. No. 330-010, 330-005, 330-007, 333-200-120, 333-100-120		
HEPA Filter,Plastic	55-325	**4AVG2**
For Use With Mfr. No. 330-007, 330-010, 330-005, 333-200-120, 333-100-120		
T12 Entry Tube,48" L	55-488	**4AVF4**
Drum Dolly	55-470	**6ZFY0**
For Use With Mfr. No. 330-007, 333-200-120, 333-100-120		
CFL Spinner Assembly, 8-Link	055-133	**11C377**
For Use With Mfr. No. 330-005, 330-007, 330-010		
T8 Entry Tube,48" L	55-486	**4AVF3**
For Use With Mfr. No. 333-200-120		
Filter Combo Kit for 333-200-120 (2) Filter Cartridges, (1) HEPA Filter, (1) Spinner Assembly	333-390-SCK	**20VR93**
Jumbo Filter Combo Kit for 333-200-120 (10) Filter Cartridges, (5) HEPA Filters, (5) Spinner Assemblies	333-390-LCK	**20VR94**
For Use With Mfr. No. 333-200-120, 333-100-120		
CFL/U-Tube Chute	333-210-CHU	**20VR91**
Filter Cartridge	333-367	**20VR92**
For Use With Mfr. No. 333-100-120		
Filter Combo Kit for 333-200-120 (4) Cartridge Filters, (1) HEPA Filter, 8-Link Spinner Assemblies	333-395-SCK	**401M82**
Jumbo Filter Combo Kit for 333-200-120 (20) Cartridge Filters, (5) HEPA Filters, 8-Link Spinner Assemblies	333-395-LCK	**401M83**
Filter Cartridge Kit for 333-200-120 (4) Cartridge Filters	333-367-4PK	**401M84**

Application	Brand	Item No.
Rubber Suction Cup		
PAR30, PAR36, PAR38	GA	**3V694**
R20, R30, ER30, PAR20	GA	**3V695**
R20, R30, ER30, PAR20	Unger	**3UP47**
R40, R52, BR52	GA	**3V693**
Rubber Covered Fingers		
A15, A17, A19, G16-1/2, G18-1/2	GA	**3V690**
A19, A21, A23, P25, PS25, PS30, PS35, G25, G30, FLE20, T19	GA	**3V691**
BR/R30, BR/R40, PAR30, PAR36, PAR38, ER30, ER40	GA	**3V692**
BR/R30, BR/R40, PAR30, PAR36, PAR38, ER30, ER40	Unger	**3UP46**
BT28, E21, E23, E23-1/2,E25, E28, ED23-1/2, ED28	GA	**2D006**
E17, E18, ED17, ED18, B17	GA	**2D012**
E37, BT37, BT46, ED37	GA	**2D007**
PS35, PS40, G40, G48	GA	**2D008**
R52, R57	GA	**2D009**
Lamp Changer Kit		
11 ft. Steel Pole, Standard, Floodlight and Recessed Changer Heads, 2 pc. Broken Bulb Changer and Duster	Bayco	**38W576**
Broken Lamp Remover		
Rubber Tip Without Dish	GA	**8YDC7**
Steel Fork With Plastic Dish to Catch Broken Glass	GA	**3V699**
Steel Fork With Plastic Dish to Catch Broken Glass	Unger	**3UP45**
Accessories		
5-Ft. Wood Insulated, Steel Pole	GA	**3V698**

GA GRAINGER APPROVED
BAYCO
UNGER®

Lamp Changers

- Order lamp changer and pole separately

Change high and hard-to-reach lamps without using ladders. To determine proper selection, match lamp changer with lamp type.

Note: Unger and GA poles and accessories are not interchangeable.



No. 3V694



No. 3UP47



No. 3V693



No. 3V690



No. 2D006



No. 2D008



No. 38W576



No. 8YDC7



No. 3V699

Battery Recycling

RECYCLEPAK VEOLIA SERVICES
EverLights

Battery recycling products help users comply with regulations for recycling batteries, which may contain hazardous materials. **Prepaid recycling and disposal kits** come with containers, preprinted shipping labels, and shipping instructions for recycling specific types of batteries. Prepaid shipping fees and recycling costs are included with the kits, and a certificate of reclamation is available upon request. **Recycling tubes for standard batteries** can be placed in high-traffic areas such as copy rooms and supply rooms to collect dead batteries for recycling.



No. 55VP96



No. 1FYF1



No. 48UL69



No. 4NYA8

Maximum Battery Size (L)	Maximum Battery Size (WxH)	Volume Cap.	Weight Cap.	Prepaid Disposal Included	Brand	Item No.
Prepaid Recycling & Disposal Kits for Damaged Lithium-Ion Batteries						
Damaged Lithium Ion Batteries						
1.5"	2" x 2"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VP96**
5.5"	4.5" x 4.5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP92**
	4.5" x 4.5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR01**
6"	3.5" x 3.5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VP98**
	3.5 x 3.5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP90**
7"	5" x 5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP94**
	5" x 5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR03**
9"	11" x 11"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR05**
Damaged Lithium Metal Batteries						
1.5"	2" x 2"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP89**
	2" x 2"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VP97**
5.5"	4.5" x 4.5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP93**
	4.5" x 4.5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR02**
6"	3.5" x 3.5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VP99**
	3.5 x 3.5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP91**
7"	5" x 5"	5.5 ltr.	8.8 lbs.	Yes	RecyclePak	**55VP95**
	5" x 5"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR04**
9"	11" x 11"	5 gal.	20.5 lbs.	Yes	RecyclePak	**55VR06**

Maximum Battery Size (L)	Maximum Battery Size (WxH)	Volume Cap.	Weight Cap.	Prepaid Disposal Included	Brand	Item No.
Prepaid Recycling & Disposal Kits for Standard Batteries						
Dry Cell Batteries						
7"	12" x 10"	3½ gal.	50 lbs.	Yes	Everlights	**48VG30**
10"	22" x 34"	55 gal.	600 lbs.	Yes	Everlights	**30YH48**
Lithium Content Dependent and Weight Dependent	Lithium Content Dependent and Weight Dependent	3½ gal.	50 lbs.	Yes	RecyclePak	**1FYF1**
	Lithium Content Dependent and Weight Dependent	½ gal.	15 lbs.	Yes	RecyclePak	**12G312**
	Lithium Content Dependent and Weight Dependent	1 gal.	25 lbs.	Yes	RecyclePak	**12G311**
	Lithium Content Dependent and Weight Dependent	Weight Dependent	45 lbs.	Yes	RecyclePak	**34J848**
Recycling Tubes for Standard Batteries						
Dry Cell Batteries						
8"	8" x 48"	5 gal.	33 lbs.	Yes	Everlights	**48UL69**
36"	5" x 5"	5 gal.	55 lbs.	No	Everlights	**30YH47**
Sealed Lead-Acid Battery Prepaid Recycling & Disposal Kits						
Sealed Lead Acid Batteries						
Weight Dependent	Weight Dependent	2 gal.	35 lbs.	Yes	RecyclePak	**4NYA8**



No. 5KH66



No. 30YH38



No. 45L101



No. 34J850



No. 2KNL3

RECYCLEPAK VEOLIA EverLights

Recycling Kits

Kits come with the necessary items for recycling specific quantities of light bulbs, ballasts, and other products that contain hazardous materials in compliance with environmental regulations. RecyclePak® Kits include container (except where noted), preprinted address label; and certificate of reclamation. EverLights Kits have a pre-labeled container with state-specific universal waste shipping instructions and provide a certificate of reclamation upon request.

Note: For customers in Alaska, Hawaii, Arkansas, the Virgin Islands, Guam, and Puerto Rico, please call 1-800-GRAINGER (472-4643).

For Use With	Volume Cap.	Weight Cap.	L	W	D	Prepaid Disposal Included	Brand	Item No.	
Ballast Prepaid Recycling & Disposal Kits									
Non PCB and Electronic Lamp Ballast	—	20 lb	18 in	12 in	6 in	Yes	RecyclePak	**55VP87**	
PCB or Non-PCB Ballasts	5 gal	50 lb	84 in	12 in	12 in	Yes	Everlights	**48UL70**	
TSCA-exempt PCB and Non PCB Magnetic and Electronic Lamp Ballast.	5 gal	55 lb	14 in	10 in	11 ½ in	Yes	RecyclePak	**5KH66**	
	6½ gal	66 lb	10 in to 11 ⅜ in	10 in to 11 ⅜ in	18 ⅜ in	Yes	RecyclePak	**34J846**	
	30 gal	250 lb	17 ½ in	17 ½ in	27 in	Yes	RecyclePak	**45L102**	
Cell Phone Prepaid Recycling & Disposal Kits									
110 Cell Phones	110 Cell Phones	25 lb	13 in	9 in	13 in	Yes	RecyclePak	**34J850**	
Combination Light Bulb & Ballast Recycling & Disposal Solutions									
150 T12 or 300 T8 4 ft Straight Lamps and 160 CFLs and 50 PCB or Non-PCB Ballasts	55 gal	500 lb	40 in	40 in	40 in	Yes	Everlights	**30YH43**	
60 T12 or 120 T8 4 ft Straight Lamps and 25 PCB or Non-PCB Ballasts	5 gal	500 lb	40 in	40 in	40 in	Yes	Everlights	**30YH42**	
HID Lamps	55 gal	100 lb	24 in	21 in	21 in	Yes	Everlights	**30YH38**	
HID Lamps and HID Ballasts	55 gal	300 lb	40 in	30 in	40 in	Yes	Everlights	**30YH41**	
U-Bend Fluorescent Lamps and Non-PCB Ballasts	55 gal	500 lb	40 in	40 in	40 in	Yes	Everlights	**30YH40**	
	55 gal	1,600 lb	13 in	13 in	13 in	Yes	Everlights	**30YH37**	
Ink & Toner Cartridge Prepaid Recycling & Disposal Kits									
30-45 Inkjet Cartridges	30-45 Inkjet Cartridges	10 lb	13 in	9 in	13 in	Yes	RecyclePak	**34J849**	
Light Bulb Prepaid Recycling & Disposal Kits									
150 small spiral, 525 2-pin, 265 4-pin CFLs or 125 incandescent or misc. spots, LEDs and floods.	Weight Dependent	37 lb	15 in	15 in	15 in	Yes	RecyclePak	**4NYA6**	
16 T12 or 39 T8 4 ft Straight Lamps	Weight Dependent	17 lb	48 in	6 in	6 in	Yes	RecyclePak	**2KNL3**	
16 T12 or 39 T8 8ft straight lamps.	Weight Dependent	35 lb	96 in	6 in	6 in	Yes	RecyclePak	**5KH64**	
191 6W or 207 8W or 135 12W Small LED Lamps	Weight Dependent	50 lb	18 in	18 in	12 in	Yes	RecyclePak	**444A29**	
22 T12 or 32 T8 u-tubes or 250 small CFLs or misc. HIDs, LEDs or circular lamps.	Weight Dependent	58 lb	16 in	16 in	25 in	Yes	RecyclePak	**2KNL6**	
25 T12 or 57 T8 8ft straight lamps.	Weight Dependent	61 lb	8 in	96 in	8 in	Yes	RecyclePak	**4NYA4**	
25 T12 or 57 T8 Free Flowing Mercury Straight UV Lamps 8 ft Length	Weight Dependent	55 lb	10 in	100 in	10 in	Yes	RecyclePak	**444A31**	
25 T12 or 64 T8 Straight Lamps and 275 PCB Ballasts, 40 U-Bend Lamps, 10 HID Lamps	4' Linear Box	45 lb	48 in	8 in	8 in	Yes	Everlights	**48UL66**	
2 to 4 Small LED Lamps	Weight Dependent	3 lb	6 in	9 in	10 in	Yes	RecyclePak	**444A27**	
30 T12 or 60 T8 Free Flowing Mercury Straight UV Lamps 4 ft Length	Weight Dependent	34 lb	12 in	52 in	12 in	Yes	RecyclePak	**444A30**	
30 T12 or 72 T8 4ft straight lamps or 10 T12 or 20 T8 u-tubes.	Weight Dependent	34 lb	48 in	8 ½ in	8 ½ in	Yes	RecyclePak	**5KH63**	
35 small spiral CFLs	Weight Dependent	11 lb	13 in	13 in	9 in	Yes	RecyclePak	**34J847**	
35 T12 or 60 T8 Straight Lamps	8' Linear Box	50 lb	98 in	9 ¼ in	9 ¼ in	Yes	Everlights	**48UL68**	
39 T8 or 62 T5 or 78 T4 or 156 T2 4 ft Straight LED Lamps	Weight Dependent	17 lb	6 in	48 in	6 in	Yes	RecyclePak	**444A26**	
46 T12 or 81 T8 u-tubes or 60 400w HIDs.	Weight Dependent	54 lb	22 in	22 in	24 in	Yes	RecyclePak	**4NYA5**	
64 6W or 69 8W or 45 12W Small LED Lamps	Weight Dependent	20 lb	12 in	18 in	6 in	Yes	RecyclePak	**444A28**	
68 T12 or 146 T8 4ft straight lamps or 22 T12 or 32 T8 u-tubes.	Weight Dependent	66 lb	48 in	12 in	12 in	Yes	RecyclePak	**4CY98**	
800 T12 or 1600 T8 4ft straight lamps or 360 400w HIDs or 312 T12 or 480 T8 u-tubes	Weight Dependent	450 lb	48 in	40 in	51 in	Yes	RecyclePak	**2KNL7**	
80 T12 or 160 T8 Straight Lamps	4' Linear Box	50 lb	48 in	12 ¼ in	12 ¼ in	Yes	Everlights	**48UL67**	
CFL and LEDs (6 to 8 Med. or 12 Small)	Weight Dependent	3.85 lb	6 in	6 in	6 in	Yes	RecyclePak	**2KNL5**	
CFLs or Mixed lamps.	Weight Dependent	525 lb	36 in	36 in	36 in	Yes	RecyclePak	**45L101**	
HID Lamps	2' Linear Box	80 lb	24 in	21 in	21 in	Yes	Everlights	**48VG31**	
Projection Lamps	Weight Dependent	9 lb	12 ¼ in	9 in	10 ¼ in	Yes	RecyclePak	**55VP85**	
	Weight Dependent	22 lb	18 in	18 in	18 in	Yes	RecyclePak	**55VP86**	
Small to medium CFLs or LEDs. DO NOT EXCEED the UN rated weight of 55 lbs when placing lamps into this container.	5 gal	55 lb	14 in	10 in	11 ½ in	Yes	RecyclePak	**5KH67**	
Light Bulb Recycling Boxes									
25 T12 or 57 T8 8ft straight lamps	Weight Dependent	60 lb	8 in	96 in	8 in	No	SupplyPak	**48TJ52**	#
30 T12 or 60 T8 4ft straight lamps or 10 T12 or 20 T8 u-tubes.	Weight Dependent	34 lb	8 ½ in	48 in	8 ½ in	No	SupplyPak	**48TJ51**	#
46 T12 or 81 T8 u-tubes or 60 400w HIDS or Misc CFLs	Weight Dependent	54 lb	22 in	22 in	24 in	No	SupplyPak	**48TJ53**	#
Light Bulb Recycling Stamps									
550 lbs. of crushed linear fluorescent lamps	—	550 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L103**	*
900 T12 or 1800 T8 4 ft Straight Lamps	—	900 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L104**	*
900 T12 or 1800 T8 8 ft Straight Lamps	—	4 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L105**	*
Mercury Device Prepaid Recycling & Disposal Kits									
Intact Universal Waste Mercury Devices	1 gal	13 lb	7 in	7 ½ in	6 ⅝ in	Yes	RecyclePak	**5AU58**	
	5 gal	55 lb	14 ⅛ in	11 ½ in	10 ⅝ in	Yes	RecyclePak	**4NYA7**	
Pharmaceutical Waste Kit									
Non-DEA Pharmaceutical Waste, CESQG Only	5 gal	50 lb	14 ⅛ in	11 ½ in	10 ⅝ in	Yes	RecyclePak	**45L098**	
Prepaid Recycling & Disposal Kits for Home & Office Electronics									
Cell Phones, Home and Office Electronics: Computers, Monitors, Printers, Toner Cartridges, TVs	Weight Dependent	20 lb	18 in	12 in	6 in	Yes	RecyclePak	**12G313**	
	Weight Dependent	50 lb	18 in	18 in	12 in	Yes	RecyclePak	**12G314**	
	Weight Dependent	70 lb	22 in	22 in	22 in	Yes	RecyclePak	**2KNL4**	
	Weight Dependent	450 lb	36 in	26 in	36 in	Yes	RecyclePak	**45L099**	

**** Does not include packaging or containers. Only includes waste pickup, transportation, and recycling. # No disposal or return shipping included.***


No. 35FT63


No. 35FT62


No. 35FT67


No. 35FT65


No. 35FT58


No. 35FT57


No. 35FT69

burton®

Floor Stand Exam and Surgical Lights

These reliable all-purpose lights provide high-intensity lighting and flexibility for just about any healthcare facility. Meet IEC standard. UL Listed.

Note: Accessories are available separately on Grainger.com®.

Exam Lights—These exam lights give off minimal heat, producing a cool light, to help provide a more-comfortable setting.

No. 35FT57 offers 2 illumination levels. Dual handles and K-arm allows for smooth positioning of light. No. 35FT58 has a Y-shaped design helping to minimize obstruction of light. Multiple reflectors can be tilted to adjust the lighting position. No. 35FT65 helps provide shadow-free operation. No. 35FT63 has a venting system that absorbs and filters out infrared. No. 35FT62 features a special optics system that helps provide exceptional lighting.

Surgical Lights—Shadow-free light with adjustable focus offers maximum intensity with minimal heat output. Flexible arm with extensive reach allows for a greater range of motion. Include footswitch, locking casters, hardware kit, and cord wrap.

Task Light—Designed to provide usable light while keeping patients comfortable, the dimmable light source is recessed inside the light head to reduce glare and minimize disruption to other patients. The ergonomic handle lets you aim the light where it's needed, and an integrated "night-watch" observation light lets nurses check on patients without disturbing them while they are sleeping.

Color Temp.	Light Output	Overall Reach	Watts	Mfr. Model	Item No.
Examination Light					
Halogen					
3100K	45,000 Lux @ 40"	31"	45	A50FL	**35FT59**
3200K	45,000 Lux @ 18"	35½"	35	GL30FL	**35FT63**
3200K	45,000 Lux @ 18"	35½"	35	GLW30FL	**35FT64**
3300K	86,000 Lux @ 24"	37½"	50	OP216FL	**35FT66**
3400K	56,000 Lux @ 18"	28"	20	SB40FL	**35FT62**
4300K	86,000 Lux @ 24"	37½"	150	CS316FL	**35FT67**
LED					
3700K	90,000 Lux @ 24"	37½"	42	OPLEDFL	**35FT65**
4000K	35,000 Lux @ 39"	51"	20	SELEDFL	**53XL23**
4300K	45,000 Lux @ 40"	63"	45	ALEDFL	**35FT58**
4600K	Low 25,000 Lux @ 18, High 50,000 Lux @ 18"*	45"	Low 8/ High 16	NXFL	**35FT57**
Surgical Light					
Halogen					
3500K	63,000 Lux @ 40"	31"	45	A100FL	**35FT68**
3700K	90,000 Lux @ 40"	63"	35	A200FL	**35FT69**
Task Light					
LED					
3000K	2000 Lux @ 24"	53⅛"	9	CARLFL	**53XL20**


No. 35FV17

burton®

Halogen Surgical Lights

Provides virtually limitless rotation on ceiling mounts. Designed for high intensity illumination, and very smooth focus and maneuverability. Long arm system ensures that either light can be positioned in the widest range of positions possible, making it ideal for examination applications.

Mounting Type	Includes	Watts	Light Output	Arm Length	Overall Reach	Mfr. Model	Item No.
Aim 100 Series							
Dual Ceiling	HD and Double Ceiling Mount	35	58,000 Lux @ 40"	31"	31"	A100DC	**35FV18**
Single Ceiling	HD and Ceiling Mount	35	58,000 Lux @ 40"	31"	31"	A100SC	**35FV17**
Wall	HD and Wall Mount	35	58,000 Lux @ 40"	31"	31"	A100W	**35FV19**

Item	Mfr. Model	Item No.
AIM 100 Accessory		
Miniature Halogen Bulb	1017111PK	**35FV24**

LIGHTING UPGRADE Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient Lighting retrofit projects.

> Visit **grainger.com/energyservices**


AIM
No. 35FT75


Outpatient
No. 35FV04


Nova
No. 35FT72


Outpatient
No. 35FT95


Cool Spot
No. 35FV08


Outpatient
No. 35FT96

burton®

Examination Lights

AIM—Energy-efficient lights are designed with a unique, Y-shaped head that facilitates placement of the light around the physician's head, minimizing the obstruction of light into the examination field.

Cool Spot—Provides pure, white light along with a no-drift arm, high-intensity setting, and variable spot-sized control.

Nova—Produce a cool light that enhances both physician and patient comfort while delivering a uniform beam pattern, and higher illumination levels. Designed with K-arm and dual handles that make it easy to position the light.

Mounting	Includes	Watts	Lamp Type	Color Temp.	Light Output	Arm Length	Overall Reach	Mfr. Model	Item No.
Examination Light									
AIM LED									
Ceiling	HD and Ceiling Mount	84	LED	4300K	45,000 Lux @ 40"	63"	63"	ALEDSC	**35FT75**
Dual Ceiling	Double HD and Ceiling Mount	84	LED	4300K	45,000 Lux @ 40"	63"	63"	ALEDDC	**35FT76**
Wall	HD and Wall Mount	84	LED	4300K	45,000 Lux @ 40"	63"	63"	ALEDW	**35FT77**
CoolSpot II									
Ceiling	HD and Ceiling Mount	150	Halogen	4300K	126,000 Lux @ 24"	37½"	37½"	CS316SC	**35FV08**
	HD and Single Trac	150	Halogen	4300K	126,000 Lux @ 24"	37½"	37½"	CS316ST	**35FV11**
Dual Ceiling	HD and Double Ceiling Mount	150	Halogen	4300K	126,000 Lux @ 24"	37½"	37½"	CS316DC	**35FV09**
	HD and Double Trac	150	Halogen	4300K	126,000 Lux @ 24"	37½"	37½"	CS316DT	**35FV12**
Wall	HD and Wall Mount	150	Halogen	4300K	126,000 Lux @ 24"	37½"	37½"	CS316W	**35FV10**
Nova Exam LED									
Ceiling	HD and Ceiling Mount	Low 8/High 16	LED	4600K	50,000 Lux @ 18"	45"	45"	NXC	**35FT74**
Table	FL Base with Upright and Hardware Kit	Low 8/High 16	LED	4600K	50,000 Lux @ 18"	45"	45"	NXT	**35FT72**
Wall	Wall Mount with Hardware Kit	Low 8/High 16	LED	4600K	50,000 Lux @ 18"	45"	45"	NXW	**35FT73**
Outpatient II									
Ceiling	HD and Single Trac	50	Halogen	3300K	78,000 Lux @ 24"	37½"	37½"	OP216SC	**35FV01**
	HD and Single Trac	50	Halogen	3300K	78,000 Lux @ 24"	37½"	37½"	OP216ST	**35FV04**
Dual Ceiling	HD and Double Trac	50	Halogen	3300K	78,000 Lux @ 24"	37½"	37½"	OP216DC	**35FV02**
	HD and Double Trac	50	Halogen	3300K	78,000 Lux @ 24"	37½"	37½"	OP216DT	**35FV05**
Wall	HD and Wall Mount	50	Halogen	3300K	78,000 Lux @ 24"	37½"	37½"	OP216W	**35FV03**
Outpatient LED									
Ceiling	HD and Ceiling Mount	42	LED	3700K	90,000 Lux @ 24"	37½"	37½"	OPLEDSC	**35FT95**
Dual Ceiling	Double HD and Ceiling Mount	42	LED	3700K	90,000 Lux @ 24"	37½"	37½"	OPLEDDC	**35FT96**
Wall	HD and Wall Mount	42	LED	3700K	90,000 Lux @ 24"	37½"	37½"	OPLEDW	**35FT97**
Super Exam LED									
Ceiling	HD and Ceiling Mount	20	LED	3800K	35,000 Lux @ 39"	37"	51"	SELEDC	**53XL26**
Table	HD and Table Mount	20	LED	3800K	35,000 Lux @ 39"	37"	51"	SELEDT	**53XL25**
Wall	HD and Wall Mount	20	LED	4000K	35,000 Lux @ 39"	37"	51"	SELEDW	**53XL24**
Task Light									
Carelite LED									
Table	Mounting Hardware	9	LED	2700K	2000 Lux @ 24"	41"	53⅛"	CARLT	**53XL21**
Wall	Mounting Hardware	9	LED	3000K	2000 Lux @ 24"	41"	53⅛"	CARLW	**53XL22**

Outpatient—Low-maintenance light is an excellent choice for most examination applications in the hospital, physician's office, surgery center, and veterinary field. Sleek profile. Provides a virtually heat-free light so the patient remains comfortable.

Super Exam—Controls are mounted directly on the easy-access handle, so you can access all light functions and simultaneously aim the bright, white LED light exactly where you need it, all with a single hand. The drift-free spring-loaded arm helps make sure that the light stays put. A recessed light source helps reduce glare. A low-output mode lets you check on sleeping patients without disturbing them.

Carelite—Designed to provide usable light while keeping patients comfortable, the Carelite has a dimmable light source that is recessed inside the light head to reduce glare and minimize disruption to other patients. An integrated "night-watch" observation light lets nurses check on patients without disturbing them.

Item	Type	Mfr. Model	Item No.
AIM Accessories			
Handle Cover	Disposable	0008100PK	**35FV47**
Replacement Handle	For AIM Lights	1017040	**35FV45**
Drop Tube	42" for AIM Lights	1017084	**35FV46**
Outpatient II Accessories			
Drop Tube	Straight	1008259	**35FV43**
	Straight	1008060	**35FV44**
Replacement Handle	Outpatient II	1008465	**35FV07**
Halogen Light Bulb	—	0006130PK	**35FV06**
Cool Spot Accessories			
Replacement Handle	CoolSpot II	1008466B	**35FV14**
Halogen Light Bulb	—	0007006PK	**35FV13**

O.C.White Co. Illuminating Ideas & Designs Since 1883 · LumaPro · Vision Luxo · AVEN · tensor · Waldmann Engineer of Light · Task Lighting electrix

Magnifier Lights

Watts	Diopter	Magnification	Lens Dia.	Dimmable	Magnifier Shape	Arm Length	Overall Length	Color	Brand	Item No.	
Clamp Base											
LED/UV											
8	4	2x	7" x 5.25"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA94**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA95**	*
12.6	3	1.75x	7"	Yes	Round	18"	36"	White	LumaPro	**32PE57**	
LED											
3	3	1.75x	5"	No	Round	16"	32"	Black	LumaPro	**10C908**	
	3	1.75x	5"	No	Round	16"	32"	White	LumaPro	**10C909**	
4	4	2x	6"	Yes	Round	37"	45"	Black	O.C. White	**36NA76**	*
	4	2x	6"	Yes	Round	37"	45"	Beige	O.C. White	**36NA77**	*
5	3	1.75x	7"	No	Round	16"	32"	Black	LumaPro	**10C906**	
	3	1.75x	7"	No	Round	16"	32"	White	LumaPro	**10C907**	
6	3.5	1.88x	6.7" x 4.5"	Yes	Rectangular	45"	45"	Gray	Vision-Luxo	**21EN79**	
	5	2.25x	6.7" x 4.5"	Yes	Rectangular	45"	45"	Gray	Vision-Luxo	**21EN82**	
	3.5	1.88x	6.7" x 4.5"	Yes	Rectangular	45"	45"	Black	Vision-Luxo	**21EN85**	
	5	2.25x	6.7" x 4.5"	Yes	Rectangular	45"	45"	Black	Vision-Luxo	**21EN88**	
7	3	1.75x	7" x 5.3"	No	Rectangular	32"	—	Black	LumaPro	**6MNT5**	
	3	1.75x	7" x 5.3"	No	Rectangular	32"	—	White	LumaPro	**6MNT6**	
7.6	3	1.75x	7.5" x 6.2" x 14.2"	No	Rectangular	18"	36"	Black	LumaPro	**32PE44**	
	3	1.75x	7.5" x 6.2"	No	Rectangular	18"	36"	White	LumaPro	**32PE45**	
	5	2.25x	7.5" x 6.2" x 8.7"	No	Rectangular	18"	36"	Black	LumaPro	**32PE46**	
	5	2.25x	7.5" x 6.2" x 8.7"	No	Rectangular	18"	36"	White	LumaPro	**32PE47**	
8	4	2x	7.5"	Yes	Round	37"	45"	Black	O.C. White	**36NA82**	*
	4	2x	7.5"	Yes	Round	37"	45"	Beige	O.C. White	**36NA83**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA88**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA89**	*
9	3	1.75x	5"	Yes	Round	45"	45"	Gray	Vision-Luxo	**22EN51**	
	5	2.25x	5"	Yes	Round	45"	45"	Gray	Vision-Luxo	**22EN52**	
	3	1.75x	5"	Yes	Round	45"	45"	Gray	Vision-Luxo	**460K95**	
	5	2.25x	5"	Yes	Round	45"	45"	Gray	Vision-Luxo	**460K96**	
	3	1.75x	5"	Yes	Round	30"	30"	Gray	Vision-Luxo	**460K97**	
	5	2.25x	5"	Yes	Round	30"	30"	Gray	Vision-Luxo	**460K98**	
9.4	3	1.75x	5"	No	Round	16"	32"	White	LumaPro	**32PE50**	
	3	1.75x	5"	No	Round	16"	32"	Black	LumaPro	**32PE51**	
	5	2.25x	5"	No	Round	16"	32"	White	LumaPro	**32PE52**	
	5	2.25x	5"	No	Round	16"	32"	Black	LumaPro	**32PE53**	
12.6	3	1.75x	7"	Yes	Round	18"	36"	White	LumaPro	**32PE56**	
—	3	1.75x	7"	Yes	Round	35"	50"	Ivory	Aven	**19MT16**	
Fluorescent											
13	3	1.75x	5"	No	Round	24"	—	Black	LumaPro	**6MNT4**	
22	5	2.25x	—	No	Round	45"	—	White	Aven	**3KZH6**	
	3	1.75x	5"	No	Round	53"	—	Black	LumaPro	**6MNT9**	
	3	1.75x	5"	No	Round	36"	—	White	LumaPro	**6MNU0**	
	5	2.25x	5"	No	Round	36"	—	Black	LumaPro	**6MNU1**	
	5	2.25x	5"	No	Round	36"	—	White	LumaPro	**6MNU2**	
34	3	1.75x	7.5" x 6.3"	No	Rectangular	37"	45"	Black	O.C. White	**36NC01**	*
	3	1.75x	7.5" x 6.3"	No	Rectangular	37"	45"	Beige	O.C. White	**36NC02**	*
Clip-On Base											
LED											
1.9	—	—	—	No	Round	17"	—	Black	Tensor	**45RM49**	
Screw Down Base											
LED/UV											
8	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA92**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA93**	*
LED											
4	4	2x	6"	Yes	Round	37"	45"	Black	O.C. White	**36NA74**	*
	4	2x	6"	Yes	Round	37"	45"	Beige	O.C. White	**36NA75**	*
6	6	2.5x	2.8"	—	Round	15¾"	16"	Black/Silver	Waldmann	**52XP81**	
8	4	2x	7.5"	Yes	Round	37"	45"	Black	O.C. White	**36NA80**	*
	4	2x	7.5"	Yes	Round	37"	45"	Beige	O.C. White	**36NA81**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA86**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA87**	*
10	3	1.75x	7.5" x 6.2"	Yes	Rectangular	36"	46"	White	Aven	**53CJ18**	
	5	2.25x	7.5" x 6.2"	Yes	Rectangular	36"	46"	Black	Aven	**53CJ19**	
13	3	1.75x	4.25" x 6.5"	—	Rectangular	43"	43"	Silver	Waldmann	**52XP80**	
18	3	1.75x	5"	No	Round	45"	45"	Black	Electrix	**52XH40**	
19	5	2.25x	5"	No	Round	45"	45"	Black	Electrix	**52XH42**	
Fluorescent											
34	3	1.75x	7.5" x 6.3"	No	Rectangular	37"	45"	Black	O.C. White	**36NA98**	*
	3	1.75x	7.5" x 6.3"	No	Rectangular	37"	45"	Beige	O.C. White	**36NA99**	*
Weighted Base											
LED/UV											
8	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA96**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA97**	*
LED											
1.9	3	2x	—	No	Round	17"	10¾"	Black	Tensor	**45RM48**	
4	4	2x	6"	Yes	Round	37"	45"	Black	O.C. White	**36NA78**	*
	4	2x	6"	Yes	Round	37"	45"	Beige	O.C. White	**36NA79**	*
5.4	3	1.75x	3.5"	No	Round	12"	13¾"	Black	LumaPro	**10C905**	
7.6	3	1.75x	7.5" x 6.2" x 14.2"	No	Rectangular	16"	32"	Black	LumaPro	**32PE42**	
	5	2.25x	7.5" x 6.2" x 8.7"	No	Rectangular	16"	32"	Black	LumaPro	**32PE43**	
	3	1.75x	7.5" x 6.2" x 14.2"	No	Rectangular	13"	32"	White	LumaPro	**32PE48**	
	5	2.25x	7.5" x 6.2" x 8.7"	No	Rectangular	16"	32"	White	LumaPro	**32PE49**	
8	4	2x	7.5"	Yes	Round	37"	45"	Black	O.C. White	**36NA84**	*
	4	2x	7.5"	Yes	Round	37"	45"	Beige	O.C. White	**36NA85**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Black	O.C. White	**36NA90**	*
	4	2x	7" x 5.3"	Yes	Rectangular	37"	45"	Beige	O.C. White	**36NA91**	*
9.4	3	1.75x	5"	No	Round	16"	32"	White	LumaPro	**32PE54**	
	5	2.25x	5"	No	Round	16"	32"	White	LumaPro	**32PE55**	
11	3	1.75x	5"	No	Round	30"	30"	Black	Electrix	**447Z41**	
19	3	1.75x	7"	No	Rectangular	30"	30"	Black	Electrix	**52XH41**	
	5	2.25x	5"	No	Round	30"	30"	Black	Electrix	**52XH43**	
Fluorescent											
34	3	1.75x	7.5" x 6.25"	No	Rectangular	25"	33"	Black	O.C. White	**36NC03**	*
	3	1.75x	7.5" x 6.3"	No	Rectangular	25"	33"	Beige	O.C. White	**36NC04**	*

Made in the USA.














No. 6MNR9


No. 6MNT0


No. 30PH47


No. 52XH47


No. 52XH49


No. 447Z45


No. 40TD11


No. 52XP76


No. 45RM45


No. 52XP75


No. 52XH48

Lamp Type	Voltage	Watts	Lumens	Overall Reach	Arm Length	Mounting Type	Material of Construc.	Color	Lamp Incl.	Brand	Item No.
Articulating Arm Task Light											
Fluorescent	120	13	500	25"	25"	Weighted Base	Steel	Black	Yes	LumaPro	**4PD53**
	120	13	500	24"	12"	Clamp Base	Steel	Black	Yes	LumaPro	**6MNR7**
	120	13	500	24"	12"	Weighted Base	Steel	Black	Yes	LumaPro	**6MNR9**
	120	15/2	120	45"	45"	Clamp Base	Steel	Black	Yes	LumaPro	**6W983**
	120	25	800	36"	18"	Clamp Base	Steel	Black	Yes	LumaPro	**6MNT0**
Incandescent	125	60	320	15"	12½"	Interchangeable Base	Aluminum	Gray	No	LumaPro	**5NKR5**
LED	24	8.5	600	27"	27"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP78**
	100 to 240	15	650	40"	40"	Clamp Base	Aluminum	Silver	Yes	Waldmann	**30PH47**
	100 to 240	47	1950	40"	40"	Clamp Base	Aluminum	Silver	Yes	Waldmann	**30PH49**
	120	5	300	20"	20"	Weighted Base	Metal	Black	Yes	Tensor	**45RM47**
	120	5	200	22"	22"	Weighted Base	Plastic	Black	Yes	Tensor	**45RM50**
	120	6	370	22"	22"	Magnetic Base	Aluminum	Black	Yes	Electrix	**40TD05**
	120	6	370	22"	22"	Weighted Base	Aluminum	Black	Yes	Electrix	**40TD07**
	120	7	690	30"	30"	Weighted Base	Aluminum	Black	Yes	Electrix	**40TD08**
	120	11	800	45"	45"	Clamp Base	Aluminum	Black	Yes	Electrix	**52XH47**
	120	11	800	30"	30"	Clamp Base	Aluminum	Black	Yes	Electrix	**52XH49**
	120	20	2800	18½"	4¾"	Screw-Down Base	Steel	Silver	Yes	Electrix	**447Z39**
	120	20	2800	4¾"	32"	Screw-Down Base	Steel	Silver	Yes	Electrix	**447Z40**
Clamp-On Task Light											
Fluorescent	120	13	500	7"	3"	Clamp Base	Steel	Black	No	LumaPro	**6MNR5**
LED	100 to 240	29	2400	—	—	Bracket Base	Aluminum	Silver	Yes	Waldmann	**30PH50**
Desk Task Light											
LED	120	18	1492	12"	12"	Weighted Base	Aluminum	Black	Yes	Electrix	**40TD11**
Gooseneck Task Light											
E26 Bulb	120	60	100	18"	18"	Magnetic Base	Steel	Black/Silver	No	LumaPro	**4PD35**
Incandescent	120	25	500	18"	18"	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ4**
	120	60	1200	24"	24"	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ2**
	120	60	1200	36"	36"	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ3**
LED	22 to 26	5	460	18"	23⅜"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P47**
	22 to 26	5	460	18"	23⅜"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P48**
	24	3	191	30"	30½"	Screw-Down Base	—	Black	No	Waldmann	**3CHZ9**
	24	8.5	600	24"	24"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP76**
	95 to 240	3	191	30"	30½"	Screw-Down Base	—	Black	No	Waldmann	**3CHZ7**
	100 to 240	5.5	800	18"	18"	Magnetic Base	Steel	Black	Yes	LumaPro	**33HP80**
	100 to 240	6	460	18"	23⅜"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P49**
	100 to 240	6	460	18"	23⅜"	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P50**
	100 to 240	6.5	800	18"	18"	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP79**
	100 to 240	7.7	800	23"	23"	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP81**
	100 to 240	7.7	800	35"	35"	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP82**
	120	2.8	200	20"	20"	Weighted Base	Plastic	Silver	Yes	Tensor	**45RM44**
	120	2.8	200	16"	16"	Clamp Base	Plastic	Black	Yes	Tensor	**45RM45**
	120	2.8	200	16"	16"	Clamp Base	Plastic	Silver	Yes	Tensor	**45RM46**
	120	3	300	32"	30"	Magnetic Base	Steel	Black	Yes	Electrix	**447Z47**
	120	6	370	22"	22"	Clamp Base	Aluminum	Black	Yes	Electrix	**40TD10**
	120	7	525	22"	22"	Clamp Base	Aluminum	Gray	Yes	Electrix	**40TD09**
	120	7	525	14"	13"	Weighted Base	Steel	Black	Yes	Electrix	**447Z45**
	120	7	690	27"	22"	Clamp Base	Plastic	Black	No	Electrix	**447Z46**
	120	11	800	22"	22"	Bracket Base	Steel	Black	Yes	Electrix	**447Z42**
	120	11	800	22"	22"	Clamp Base	Steel	Black	Yes	Electrix	**447Z43**
	120	11	800	22"	22"	Magnetic Base	Steel	Black	Yes	Electrix	**447Z44**
Pivoting Head Task Light											
LED	24	8.5	600	—	—	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP75**
	120	10	500	35"	35"	Clamp Base	Plastic	Black	Yes	Tensor	**45RM51**
	120	11	800	—	—	Screw-Down Base	Aluminum	Black	Yes	Electrix	**52XH48**

LumaPro

Waldmann
ENGINEER OF LIGHT.

tensor

• TASK LIGHTING •
electrix

Task Lights

Versatile lights deliver strong illumination and are ideal for workstations and desktops in production, inspection, medical, and research applications.

Articulating Arm—Articulating arm system is easy to move and can be maintained in a fixed position.

Clamp-On—Lightweight lamps conveniently clip to desktops and workstations for quick and powerful light source.

Desk Lights—Illuminate any workstation in a fixed position.

Gooseneck—Deliver bright light and have a flexible neck that allows easy adjustment to desired position.

Pivoting Head—Swivel head allows adjustment and maneuverability.

Waldmann ENGINEER OF LIGHT.

O.C.White Co. ILLUMINATING IDEAS & DESIGNS Since 1883

• TASK LIGHTING • by electrix

Machine Tool Lights

Waldmann—Coolant-, lubricant-, and vibration-resistant tool lights are built to give you bright, dependable lighting in most volatile machining environments. LED Fixtures are waterproof, impact-resistant, and offer a variety of installation options. Waterproof fluorescent linear fixtures include a built-in electronic ballast. Fixtures have a 10-yr. warranty.

Electrix—Get energy efficient lighting around enclosed and open machinery and any other areas where coolants are in constant use. All models are provided with direct-mount universal brackets, or a variety of optional accessories to satisfy most mounting applications. Ideal for CNC and EDM wet location machinery, standard and large size lathes, milling machinery, metal working equipment, and tool manufacturing.

O.C. White—A solid die-cast aluminum body acts as the heat sink for the LED arrays, while a tempered safety glass and a slim, nickel-plated bezel protect the light source. If the light exceeds maximum temperature, the lamp automatically dims itself to cool down. Fixture can be easily mounted to just about any metal surface using the pre-installed high-strength neodymium magnets, or permanently affix using 4 countersunk holes. Up to 3 light fixtures can be run from a single power point. Use light on any mill, lathe, grinder, or a variety of other machines.



No. 3CJC7



No. 6PYH1



No. 38XM78



No. 3PYD4



No. 52XP79



No. 52XH45



No. 447Z49

Voltage	Watts	Lumens	Overall Length	Includes	Cord Length	Cord Type	Average Life	Tube Material	Brand	Item No.
Linear Machine Tool Light LED										
24VAC	12	510	11.2"	—	10 ft.	—	50,000 hrs.	Aluminum	Waldmann	**3CJD2** †
24VDC	12	510	11.2"	—	10 ft.	—	50,000 hrs.	Aluminum	Waldmann	**3CJC7** †
24VDC	7.2	372	13.2"	—	9 ft. 6"	—	50,000 hrs.	Aluminum	Waldmann	**6PYH1**
24VDC	14.4	744	24.3"	—	9 ft. 6"	—	50,000 hrs.	Aluminum	Waldmann	**6PYH2**
24VDC	21.6	1116	35.3"	—	9 ft. 6"	—	50,000 hrs.	Aluminum	Waldmann	**6PYH3**
24VDC	28.8	1488	46.3"	—	9 ft. 6"	—	50,000 hrs.	Aluminum	Waldmann	**6PYH4**
24VDC	114	9600	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM73**
24VDC	76	6400	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM76**
24VDC	38	3200	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM78**
100 to 240VAC	15	340	14.5"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH52**
100 to 240VAC	21	506	20.1"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH53**
100 to 240VAC	21	506	22.2"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH54**
100 to 240VAC	27	657	25.6"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH55**
100 to 240VAC	20	444	31.1"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH56**
100 to 240VAC	26	597	42.1"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**30PH57**
100 to 240VAC	114	9600	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM69**
100 to 240VAC	76	6400	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM71**
100 to 240VAC	38	3200	19"	—	12 ft.	AWM/SVT	50,000 hrs.	Aluminum	O.C. White	**38XM79**
100 to 280VAC	16	846	24.0"	Stainless Steel Spring Clip for Mount	10 ft.	SVT	50,000 hr.	—	Electrix	**52XH44**
Tubular Machine Tool Light Fluorescent										
100 to 277VAC	24	2000	19.5"	—	—	—	20,000 hrs.	Acrylic	Waldmann	**3PYD4**
100 to 277VAC	24	2000	19.5"	—	—	—	20,000 hrs.	Glass	Waldmann	**3PYD6**
110 to 230VAC	36	2900	21.5"	—	—	—	20,000 hrs.	Acrylic	Waldmann	**3PYD8**
110 to 230VAC	36	2900	21.5"	—	—	—	20,000 hrs.	Glass	Waldmann	**3PYE1**
120 to 277VAC	108	10,000	67.4"	—	—	—	20,000 hrs.	Glass	Waldmann	**3PYA8**
120 to 277VAC	17	1400	40.6"	Mounting Brackets, Cordset	8 ft.	SJOW	20,000 hrs.	Acrylic	Waldmann	**3PYC1**
120 to 277VAC	17	1400	40.6"	Mounting Brackets, Cordset	8 ft.	SJOW	20,000 hrs.	Glass	Waldmann	**3PYC3**
120 to 277VAC	32	2900	65.2"	Mounting Brackets, Cordset	8 ft.	SJOW	20,000 hrs.	Acrylic	Waldmann	**3PYC9**
120VAC	25	2500	52.6"	Mounting Brackets, Cordset	8 ft.	SJOW	20,000 hrs.	Acrylic	Waldmann	**3PYC5**
Tubular Machine Tool Light LED										
24VDC	5	480	7.5"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**48RE48**
24VDC	10.5	1080	14.4"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**48RE49**
24VDC	16	1680	21.3"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**48RE50**
24VDC	21.5	2280	28.2"	M12 Connector	16 ft.	PUR	60,000 hrs.	Aluminum	Waldmann	**48RE51**
24VDC	30	2300	31"	M12 Connector	16 ft.	SJOW	50,000 hr.	Glass	Waldmann	**52XP79**
120	9	1020	24.0"	Heavy Duty Adjustable Steel Mounting Brackets	9 ft.	SVTO/O	50,000 hr.	Acrylic	Electrix	**52XH45**
120	9	1020	24.0"	Heavy Duty Adjustable Steel Mounting Brackets	9 ft.	SVTO/O	50,000 hr.	Glass	Electrix	**52XH46**
120VAC	7.2	862	11"	Heavy Duty Adjustable Steel Mounting Brackets	9 ft.	SVTO/O	50,000 hrs.	Acrylic	Electrix	**447Z48**
120VAC	7	966	20"	Heavy Duty Adjustable Steel Mounting Brackets	9 ft.	SVTO/O	50,000 hrs.	Acrylic	Electrix	**447Z49**
120VAC	7	966	20"	Heavy Duty Adjustable Steel Mounting Brackets	9 ft.	SVTO/O	50,000 hrs.	Glass	Electrix	**447Z50**

Type	Brand	Mfr. Model	Item No.
Tubular Light Mounting Brackets, 2 Required			
Straight	Waldmann	190015019-00014930	**3PYE3**
Long L	Waldmann	SK1021019-00010286	**3PYE5**
Short L	Waldmann	190015995	**3PYE7**

† Surface mount.


No. 40D470


No. 24K343


No. 52YK85


No. 5AY51


No. 5AY53


No. 24K347

LumaPro

PHILIPS
Day-Brite

Dock Lights

Lamp Watts	Voltage	Lumens	No. of Arms	Arm Length	Cord Length	Lighthead Material	Rated Life	Switch Type	Std.	Brand	Dock Light Item No.	Dock Light Replacement Head Item No.	Dock Light Grill Item No.
LED													
15	120	788	1	32"	7.5 ft.	Aluminum	50,000 hr.	Toggle	ETL Listed for damp locations	Daybrite	**40D470**	—	—
15	277	788	1	32"	7.5 ft.	Aluminum	50,000 hr.	Toggle	ETL Listed for damp locations	Daybrite	**40D472**	—	—
15	120	788	1	42"	7.5 ft.	Aluminum	50,000 hr.	Toggle	ETL Listed for damp locations	Daybrite	**40D471**	—	—
15	277	788	1	42"	7.5 ft.	Aluminum	50,000 hr.	Toggle	ETL Listed for damp locations	Daybrite	**40D473**	—	—
16	120	650	2	40"	16 ft.	Aluminum	—	Push Button	CSA	LumaPro	**24K343**	**24K347**	—
38	120	4100	2	40"	10 ft.	Aluminum	—	On/Off Switch	UL, cUL	LumaPro	**52YK85**	**52YK83**	—
38	120	4100	2	60"	10 ft.	Aluminum	—	On/Off Switch	UL, cUL	LumaPro	**52YK84**	**52YK83**	—
Incandescent													
150 to 300	120	—	2	40"	10 ft.	Aluminum	—	Push Button	cUL, UL	LumaPro	**5AY51**	**24K346**	**24K349**
150 to 300	120	—	2	60"	10 ft.	Aluminum	—	Push Button	cUL, UL	LumaPro	**5AY52**	**24K346**	**24K349**
Quartz Halogen													
500	120	4500	1	25"	10 ft.	Aluminum	—	Push button	cUL, UL	LumaPro	**24K344**	**24K348**	**24K350**
500	120	4500	2	40"	10 ft.	Aluminum	—	Push Button	cUL, UL	LumaPro	**5AY53**	**24K348**	**24K350**
500	120	4500	2	60"	10 ft.	Aluminum	—	Push button	cUL, UL	LumaPro	**24K345**	**24K348**	**24K350**


No. 31KZ64


No. 31KZ70

Hazardous Location Temporary Job Lights

Larson Electronics

Portable lighting provides a safe solution that is flexible and easy to manage in dangerous and confined spaces.

TEMPORARY JOB SITE LIGHTS

Feature a light head, mounted to a unit that is fabricated from nonsparking aluminum and hardware.

TEMPORARY STRING LIGHT

Ten durable hand-held lamps are connected in series. Designed with an eyelet hook for easy suspension. Resists damage from chemicals, abrasions, vibrations and impact.

Base Style	Lamp Type	Lumens	Lamp Watts	Lamp Type	Guard Type	Features	Includes	Mfr. Model	Item No.
Temporary Job Site Light									
J Hook Scaffold, Ladder, Rail	LED	12,000	150	LED	Tempered Glass	-40 to 65 Degrees C Operating Temperature Range, Aluminum Ladder/Rail J-Bracket Mounting	Adjustable Scaffold Mount, Light Head, Cord, EXP Plug	EPL-JH16C-1MLED-100	**31KZ69**
Cart	LED	12,000	150	LED	Tempered Glass	-40 to 65 Degrees C Operating Temperature Range, Non sparking aluminum cart mounting	Wheeled Cart, Light Head, Cord, EXP Plug	EPL-16C-1MLED	**31KZ64**
	HID	36,000	400	HID	Polycarbonate	T3B operating temperature range, Non sparking aluminum cart mounting	Wheeled Cart, Light Head, Cord, EXP Plug	EPL-24C-1X4	**31KZ65**
Floor Stand	LED	29,580	300	LED	Tempered Glass	60 Degree Flood Pattern, Lighting Configuration, ⅛" Thick, 3" Dia Steel Square Tube Quadpod Mounting	Wheel Kit, Cord, EXP Plug, Quadpod Tower	HAL-QP-2X150LED-100	**31KZ68**
String	LED	8600	100	LED	Tempered Glass	—	(10) Hand Lamps, EXP Plug	EPL-SL-10-LED-1227	**31KZ70**


No. 5NKU4

Vandal-Resistant Lights

Harris Lighting
Innovative Lighting Designs Since 1970

- Vandal-, impact-, and corrosion-resistant

Portable work lights contain heavy-duty magnets and eyebolt. Safety yellow nonconductive housing. Clear polycarbonate lenses provide optimal lumen output; LED models feature a frosted lens, while all others have a prismatic lens. Great for shipbuilding, maintenance, aircraft assembly, mining, and other production areas.

Lamp Watts	Lumens	Height	Lamp Incl.	Cord Length	NEC Cord Designation	NEMA Plug Config.	Color	Item No.
LED								
14	1200	10"	Yes	6 ft.	SJTOW	5-15P	Yellow	**5NKU4**
Fluorescent								
42	3200	10"	Yes	6 ft.	SJTOW	5-15P	Yellow	**5NKU5**
HID								
70	6300	9¼"	Yes	6 ft.	SJTOW	5-15P	Yellow	**5NKT8**


No. 14V990


No. 14V992

CEP CONSTRUCTION ELECTRICAL PRODUCTS

HANG-A-LIGHT

Temporary Job Site LED String Lights

- 50,000 hr. lamp life
- Very low heat output

High impact-resistant highly efficient LED lighting allows for up to 750 ft. continuous connections. Outdoor approved for wet locations.

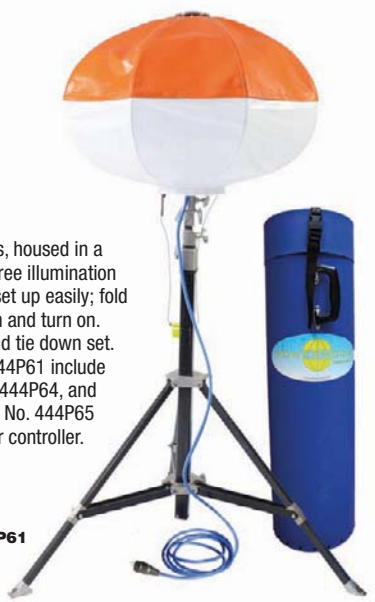
Cord Length	No. of Lamp Heads	Lamp Watts	Gauge/ Conductor	NEC Cord Designation	NEMA Plug Config.	Color	Std.	Item No.
CEP								
20 ft.	1	6.6	18/2	SJTW	1-15P	Yellow	cETLus	**14V992**
50 ft.	5	6.6	18/2	STW	1-15P	Yellow	cETLus	**14V991**
100 ft.	10	6.6	18/2	STW	1-15P	Yellow	cETLus	**14V990**
Hang-A-Light								
50 ft.	5	140	12/3	STW	5-15P	Black/Yellow	cUL	**458L14**
100 ft.	10	140	12/3	STW	5-15P	Black/Yellow	cUL	**458L12**
	10	140	14/2	SJTW	1-15P	Black/Yellow	cUL	**458L13**

Description	For Use With	Color	Brand	Item No.
String Light Accessories				
Replacement Magnetic Bracket	14V992	Black	CEP	**14V993**
90 LED Replacement Panel Light	14V990, 14V991, 14V992	Yellow	CEP	**14V995**
Steel Wire Guard	String Lights	Black	Hang-A-Light	**458L15**
Plastic Wire Guard	String Lights	Yellow	Hang-A-Light	**458L16**

Balloon Work Lights

- 5-15P NEMA plug
- Avg. rated life: 50,000 hr.

Lights have bright LED diodes, housed in a fiberglass housing for glare-free illumination and no bulb breakage. They set up easily; fold open like an umbrella, plug in and turn on. All include a carrying case and tie down set. Nos. 444P62, 444P66, and 444P61 include a tripod stand; Nos. 444P63, 444P64, and 444P66 have a hanging loop. No. 444P65 features solar panel and solar controller.


No. 444P61

Lamp Watts	Voltage	Lumens	Max. Extension Height	Light Distribution	Cord Length	Power Source	IP Rating	Item No.
Black/Orange								
380	110/230VAC	40,000	145"	360°	25 ft.	Corded (AC)	IP44	**444P62**
600	110VAC	75,000	26"	360°	25 ft.	Corded (AC)	IP54	**444P63**
600	110VAC	75,000	144"	360°	23 ft.	Corded (AC)	IP54	**444P66**
1000	110VAC	110,000	26"	360°	25 ft.	Corded (AC)	IP54	**444P64**
1000	110VAC	110,000	144"	360°	25 ft.	Corded (AC)	IP54	**444P61**
Black/Silver								
160	110VAC	19,200	136"	Flood	25 ft.	Dual (AC/DC)	IP67	**444P65**


No. 38W587

No. 2V647

No. 38W574

BAYCO Life Depends on Light™

LumaPro


No. 5AY60


No. 38W596

Clamp-On Job Site Lights

Max. Lamp Watts	Housing Dia.	Lamp Incl.	Type	Cord Length	Gauge/ Conductor	NEMA Plug Config.	Color	Brand	Item No.
75	Shade -5.5"	No	Clamp	6 ft.	18/2	—	Silver	Bayco	**38W587**
150	Shade -8.5"	No	Clamp	12 ft.	18/2	1-15P	Silver	LumaPro	**2V647**
150	Shade -8.5"	No	Clamp	6 ft.	18/2	—	Silver	Bayco	**38W574**
300	Shade -7.5"	No	Clamp	8 ft.	18/3	5-15P	Silver	LumaPro	**5AY60**
300	Shade -10.5"	No	Clamp	6 ft.	18/2	—	Silver	Bayco	**38W596**


No. 14V996


No. 14V997

CEP CONSTRUCTION ELECTRICAL PRODUCTS

Portable Cart-Mounted Lights

- 120V
- SJTW cords
- 5-15P NEMA plug configuration

Extremely strong, compact light heads are mounted on a heavy-duty steel yoke for impact resistance. Great for use in aircraft construction, automotive repair, and other maintenance and construction areas.

Lamp Watts	No. of Lamp Heads	Lumens	Max. Extension Height	Lamp Incl.	Cord Length	Rated Life	Item No.
Cart							
HID							
1000	1	110,000	120"	Yes	8 ft.	10,000 hr.	**14V996**
1000	2	220,000	144"	Yes	8 ft.	10,000 hr.	**14V997**
Halogen							
1000	2	22,000	96"	Yes	12 ft.	1100 hr.	**429H34**
Replacement Parts							
Temporary Job Site Light							**14V998**
Metal Halide HID Bulb							**14V999**


No. 15D964


No. 44M834


No. 32GD96


No. 5RZY6


No. 423L16


No. 45NL41

FoxFury Lighting Solutions · NightSearcher by ProBuilt · PELICAN · PROLIGHT by ProBuilt

LED Remote-Area Lights

Weather-resistant systems illuminate remote locations.

FoxFury—Quick-deploy area/spotlights are waterproof to 9.8 ft. Included AC or DC cables can be used to drive the system directly, or to recharge the battery. Nos. 44M834 and 44ZY99 offer 360° scene, 120° area, and 12° spotlight.

Pelican™—The practical, durable, watertight design packs an LED lighthead mounted in an aluminum heat sink into a single case. Tough injection-molded ABS glass-filled nylon housing with telescoping mast and 360° articulated light arrays stands up to tough field use. Includes 110V charger.

Lamp Watts	No. of Lamp Heads	Lumens	Run Time	Cord Length	Max. Extension Height	Std.	Battery Chemistry	Color	Mfr. Model	Item No.
FoxFury										
30	1	3000/1200/500	3/9/24 hr.	10 ft.	8 45⁄64"	CE-EMC, CE-LV	Lithium Ion	Black	200-400-100	**44ZZ02**
75	1	5000/2000/600	3/9/24 hr.	10 ft.	96"	CE-EMC, CE-LV	Lithium Ion	Black	200-800	**15D964**
100	1	8000/2400/900	3/9/24 hr.	10 ft.	102"	CE-EMC, CE-LV	Lithium Ion	Black	200-900	**44M834**
240	1	16,000/7000/3000	3/9/24 hr.	20 ft.	150"	CE-EMC, CE-LV	NiMH	Black	200-1200	**44ZY99**
Night Searcher										
120	1	14,000/6000/3500/1000	1.5/3/7/36 hr.	8 ft.	52"	—	Lithium Ion	Black	511000LITH	**32GD96**
Pelican										
1.2 to 2.4	1	5300/2800/1400	3⁄8 hr.	—	85"	CE	NiMH	Black	9440-B	**5RZY2**
24	1	2000/1000	8/15 hr.	1 ft. 6"	32 19⁄64"	CE	Sealed Lead Acid	Black	9430SL-B	**5RZY6**
—	1	3000/1500	8/15 hr.	1 ft.	32 19⁄64"	CE	Sealed Lead Acid	Black	9430	**30PK09**
—	1	3000/1500	8/15 hr.	1 ft.	32 19⁄64"	CE	Sealed Lead Acid	Yellow	9430	**30PK10**
—	2	12,000/500	7/40 hr.	1 ft.	70 51⁄64"	CE	Sealed Lead Acid	Yellow	9460M	**30PK12**
106	2	12,000	3/9/24 hr.	13 ft.	79"	CE	Sealed Lead Acid	Black	094600-0012-110	**423L16**
212	4	24,000	3.5/24 hr.	13 ft.	81"	CE	Sealed Lead Acid	Black	094700-0012-110	**423L17**
212	4	24,000	3.5/24 hr.	13 ft.	81"	CE	Sealed Lead Acid	Yellow	094700-0012-245	**423L18**
21	1	1600	5/10 hr.	12 ft.	32"	CE, cETLus, Class I, Div. 1	NiMH	Yellow	094550-0000-245	**423L19**
106	2	12,000	3/9/24 hr.	13 ft.	79"	CE	Sealed Lead Acid	Yellow	094600-0012-245	**429J06**
212	4	24,000	3/9/24 hr.	13 ft.	81"	CE	Sealed Lead Acid	Yellow	094700-0002-245	**429J07**
106	2	12,000	3/9/24 hr.	13 ft.	79"	CE	Sealed Lead Acid	Yellow	094600-0002-245	**429J08**
106	2	12,000	3/9/24 hr.	13 ft.	79"	CE	Sealed Lead Acid	Black	094600-0002-110	**429J09**
—	1	6000	3.5/24 hr.	1 ft.	72"	—, —	Sealed Lead Acid	Black	094900-0000-110	**43MJ60**
212	4	24,000	3/9/24 hr.	13 ft.	81"	CE	Sealed Lead Acid	Black	094700-0002-110-G	**429J05**
45	1	5300	8 hr.	13 ft.	85"	CE	Lithium Ion	Yellow	094400-0001-245-G	**429J03**
45	1	5300	8 hr.	13 ft.	85"	CE	Lithium Ion	Black	094400-0001-110-G	**429J04**
Prolight										
20	1	1000/1800	5/10 hr.	No Cord	8"	cUL	Lithium Ion	Yellow	511512	**45NL41**


No. 8MU19


No. 422V06

WOBBLELIGHT by ProBuilt

Self-Righting Work Lights

- 120V
- Polycarbonate dome protects bulb
- Project light in 20- to 100-ft. dia. arc, depending upon bulb wattage

Self-righting bases cannot be knocked over, for stable lighting with no bulb breakage. Require no setup; just plug in. Internal ventilation system keeps lights cool to the touch.

Lighting Technology	Lamp Watts	Lumens	Height	Mfr. Model	Item No.
LED	200	15,000	32"	111303LED	**422V06**
Fluorescent	85	5000	24"	111205	**8MU19**
HID	400	40,000	36"	111104PS	**2LTE9**
Halogen	500	8000	36"	111302	**3KYL8**
180° Reflector Shield for Wobblelights				111808	**2WA36**
Replacement Lamp for No. 2LTE8				111901	**1ANE1**
Replacement Lamp for No. 2LTE9				111903	**1ANE3**
Replacement Lamp for No. 8MU19				111908	**1XFK9**
Replacement Lamp for No. 3KYL8				111904	**3KYN8**

Job Site Lights

▪ 120VAC ▪ Lamp Included

Lamp Watts	No. of Lamp Heads	Lumens	Cord Length	NEC Cord Designation	NEMA Plug Config.	Std.	Brand	Item No.
LED								
Floor Stand								
5	1	350	6 ft.	—	—	cETLus	Southwire	**24PK28**
6	1	350	6 ft.	SJTOW	1-15P	cETL	Southwire	**38EG65**
10	1	450/900	No Cord	—	—	—	Prolight	**32GD97**
15	1	1440	5 ft.	SJTW	5-15P	cUL	Prolight	**422V12**
15	1	550 to 1100	—	—	1-15P	CEC, DOE	LumaPro	**40KG18**
16	1	600	16 ft.	SJTOW	5-15P	CSA	LumaPro	**24K351**
16	1	1500	5 ft.	—	—	UL, cUL	LumaPro	**24JZ60**
32	2	1200	16 ft.	SJTOW	5-15P	CSA	LumaPro	**24K352**
50	1	6500	5 ft.	SJTW	5-15P	cUL	Probuilt	**45NL38**
50	2	13,000	5 ft.	SJTW	5-15P	cUL	Probuilt	**45NL39**
50	3	4000	7 ft.	SJTW	5-15P	ETL	CEP	**453A33**
72	1	6000	6 ft.	SJTW	5-15P	cUL	Prolight	**422U96**
120	1	15,000	5 ft.	SJTW	5-15P	cUL	Prolight	**422V01**
Hanging								
80	1	7600	5 ft.	SJTW	5-15P	cUL	Hang-A-Light	**422V08**
100	1	12,000	5 ft.	SJTW	5-15P	cUL	Hang-A-Light	**422V09**
150	1	16,500	5 ft.	SJTW	5-15P	cUL	Hang-A-Light	**422V10**
200	1	15,000	5 ft.	SJTW	—	cUL	Hang-A-Light	**44ZY17**
Magnetic								
30	1	3000	5 ft.	SJTW	5-15P	cUL	Prolight	**422U99**
50	1	6500	5 ft.	SJTW	5-15P	cUL	Probuilt	**45NL36**
60	1	6000	5 ft.	SJTW	5-15P	cUL	Hang-A-Light	**422V11**
72	1	6000	6 ft.	SJTW	5-15P	cUL	Prolight	**422U97**
Yoke								
72	1	6000	6 ft.	SJTW	5-15P	cUL	Prolight	**422U95**
150	1	15,000	5 ft.	SJTW	5-15P	cUL	Prolight	**422V03**
220	1	22,000	5 ft.	SJTW	5-15P	cUL	Prolight	**422V04**
300	1	30,000	5 ft.	SJTW	5-15P	cUL	Prolight	**422V05**
HID								
Floor Stand								
70	1	3754	6 ft.	—	—	—	LumaPro	**3RB23**
Hanging								
400	1	42,000	6 ft.	SJTW	5-15P	UL, cUL, NEC	Hang-A-Light	**5GDZ4**
Halogen								
Floor Stand								
500	1	8000	5 ft.	SJTW	5-15P	UL, cUL	Southwire	**24PK21**
Fluorescent								
Hanging								
105	1	6900	5 ft.	SJTW	5-15P	UL, cUL	Hang-A-Light	**6MGH4**


No. 24K351


No. 24JZ60


No. 24K352


No. 45NL39


No. 453A33


No. 422U96


No. 422V01


No. 422V08


No. 45NL36


No. 3RB23


No. 6MGH4


No. 422V07


No. 24K354


No. 45NL37


No. 45NL40


No. 453A34

Tripod Lights

▪ 120VAC ▪ Lamp Included

Lamp Watts	No. of Lamp Heads	Lumens	Max. Extension Height	Cord Length	NEC Cord Designation	NEMA Plug Config.	Std.	Brand	Item No.
LED									
15	1	1440	62"	5 ft.	SJTW	5-15P	cUL	Prolight	**422V13**
16	1	600	73"	16 ft.	SJTOW	5-15P	CSA	LumaPro	**24K353**
30	1	2400	62"	No Cord	—	5-15P	cUL	Prolight	**422V07**
30	2	2880	62"	5 ft.	SJTW	5-15P	cUL	Prolight	**422V14**
32	2	1200	73"	16 ft.	SJTOW	5-15P	CSA	LumaPro	**24K354**
50	1	6500	72"	5 ft.	SJTW	5-15P	cUL	Prolight	**45NL37**
50	2	13,000	84"	5 ft.	SJTW	5-15P	cUL	Prolight	**45NL40**
50	3	4000	84"	7 ft.	SJTW	5-15P	ETL	CEP	**453A34**
72	1	6000	72"	6 ft.	SJTW	5-15P	cUL	Prolight	**422U98**
120	1	15,000	87¾"	5 ft.	SJTW	5-15P	cUL	Prolight	**422V02**
Halogen									
300/500	2	14,400	84"	20 ft.	—	—	UL	LumaPro	**4VM76**
500	2	9000	84"	20 ft.	—	—	UL	LumaPro	**4VM75**
500	1	8000	63"	5 ft.	SJTW	5-15P	UL, cUL	Southwire	**24PK22**
1000	2	16,000	63"	5 ft.	SJTW	5-15P	UL, cUL	Southwire	**24PK20**


No. 422V02


No. 4VM76


No. 22FH94


No. 52YK79


No. 2YKN3


No. 52XF16


No. 52YK80


No. 5WYC3


No. 5WYA3


No. 2W048


No. 40KG17

Hand Lamps

▪ 120V

Incandescent models do not include lamp.

Cord Length	Lamp Watts	Lumens	Color	Includes	NEMA Plug Config.	NEC Cord Designation	Std.	Brand	Item No.
LED									
Hand Lamp									
10 ft.	3.6	300	Black/Red	(2) Hooks,60 LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FH93**
	3.6	340	Black/Red	(2) Hooks,60 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FH94**
	3.8	320	Black/Red	(2) Hooks, 64 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FJ04**
	4.5	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	**52YK79**
25 ft.	3.6	340	Black/Red	(2) Hooks,60 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FH95**
	4.5	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	**2YKN1**
	6.5	450	Black/Gray	Hook, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	**2YKN5**
	7.5	500	Black/Gray	(2) Hooks, (1) Magnet	1-15P	SJT	cETLus	LumaPro	**2YKN3**
	—	1200/600	Yellow	Hook, Magnet	1-15P	SJT	ETLus	Bayco	**52XF16**
50 ft.	3.6	340	Black/Red	(2) Hooks,60 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FH96**
	4.5	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	**2YKN2**
	5.4	400	Black/Red	(2) Hooks, 90 LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FJ01**
	5.4	480	Black/Red	(2) Hooks, 90 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	**22FJ02**
	6.5	450	Black/Gray	Hook, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	**2YKN6**
	7.5	500	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	**2YKN4**
Rechargeable Hand Lamp									
Cordless	2.4	180	Black/Red	Adaptor, USB Cord	1-15P	—	UL Adaptor	LumaPro	**40KG16**
	3	300	Black/Gray	Li-ion Battery, Adaptor, (2) Hooks, Magnet	—	—	cETLus	LumaPro	**52YK80**
	3.8	320	Black/Red	(2) Hooks, 64 Surface Mount LED Unit	1-15P	—	UL Charger	LumaPro	**22FJ03**
	7.2	1000	Black/Gray	(4) Hooks, Magnet, Bracket	—	—	UL Charger	LumaPro	**52YK81**
	—	200/170	Orange	(1) Battery, AC/DC Chargers, Magnet, Hook	1-15P	—	—	Nightstick	**8YUX7**
	—	105/60/45	Orange	AC/DC Chargers, Magnet, Hook	1-15P	—	—	Nightstick	**9TVF6**
	—	600/225	Red	AC and DC Power Supply/Hook	—	—	UL Listed	Nightstick	**52XF14**
	—	600/225	Black	AC and DC Power Supply/Hook	—	—	UL Listed	Nightstick	**52XF15**
	—	120	Black	AC/DC Charger	1-15P	—	ETL	Bayco	**39AM84**
Fluorescent									
Hand Lamp									
25 ft.	8.0	180	Yellow	Hook	1-15P	SJT	UL (E71937)	LumaPro	**3X734**
	13	400	Yellow	Hook	1-15P	SJT	UL (E71937)	LumaPro	**4XP68**
	13	350	Yellow	Hook, Magnet	5-15P	SJT	UL (E71937)	LumaPro	**4XP72**
	13	400	Yellow	Hook, Magnet	1-15P	SJTW	UL (E71937)	LumaPro	**5NKT0**
	13	1800	Yellow	In-Line Magnetic Ballast, Hook	5-15P	SJOW	FM	KH Industries	**5WYC3**
	13	—	Black	Hook	1-15P	SJT	—	Bayco	**3LGX2**
	15	350	Yellow	Fluorescent Lamp, Adjustable Hook	5-15P	SJT	UL (E71937)	LumaPro	**6X971**
	15	500	Yellow	(2) Hooks, (2) Magnets, (2) Mounting Stands, Outlet	5-15P	SJT	cULus (E71937)	LumaPro	**5NKR9**
	26	720	Yellow	(2) Hooks, Magnet, CFL Lamp, Outlet	5-15P	SJT	cETLus	LumaPro	**5NRX9**
50 ft.	15	500	Yellow	Hook	5-15P	SJT	UL (E71937)	LumaPro	**5X409**
	26	720	Yellow	(2) Swivel Hooks, Magnet, CFL Lamp, Outlet	5-15P	SJT	cETLus	LumaPro	**5NRX6**
Hazardous Location Hand Lamp Safety Rating Class I, Div. 1, Group C, D, F, G									
25 ft.	26	1800	Black/Yellow	—	5-15P	SOOW	NEMA 4, CSA/US	KH Industries	**5WYA3**
50 ft.	26	1800	Black/Yellow	—	5-15P	SOOW	NEMA 4, CSA/US	KH Industries	**5WYA4**
Incandescent									
Hand Lamp									
25 ft.	75	600	Black/Yellow	Hook, Guard	5-15P	SJTOW	UL (E110409)	LumaPro	**2W163**
	75	600	Black/Yellow	Hook, Guard	1-15P	SJT	UL (E110409)	LumaPro	**2W244**
	75	—	Yellow	Hook	1-15P	SJT	ETL	Bayco	**39AM81**
	100	800	Black/Silver	Hook, Guard	5-15P	SJT	UL (E110409)	LumaPro	**2W243**
	100	800	Black/Silver	Hook, Metal Guard, Circuit Breaker, Outlet	5-15P	SJTOW	cULus (E110409)	LumaPro	**4V346**
	100	800	Black/Yellow	Hook, Metal Guard, Circuit Breaker, Outlet	5-15P	SJT	UL (E110409)	LumaPro	**4XP70**
	100	800	Black/Silver	Hook, Magnet, Metal Guard, Outlet	5-15P	SJT	cULus (E110409)	LumaPro	**5NKR2**
50 ft.	75	600	Black/Silver	Hook, Metal Guard, Outlet	5-15P	SJTOW	UL (E110409)	LumaPro	**2W048**
LED/UV									
Rechargeable Hand Lamp									
Cordless	3.0	240	Black	Adaptor, USB Cord	1-15P	—	UL Adaptor	LumaPro	**40KG17**


No. 2YKP6


No. 1W943

Cord Reel with Hand Lamp

▪ 120V

Incandescent models do not include lamp.

Cord Ending	Cord Length	Lamp Watts	Gauge/ Conductor	Item No.
LED Lamp with Receptacle	25 ft.	7.0	16/3	**2YKR1**
LED Lamp	25 ft.	2.4	18/2	**2YKP6**
	40 ft.	2.4	18/2	**2YKP7**
	40 ft.	3.2	18/2	**2YKP9**
Incandescent Lamp with Receptacle	20 ft.	75	18/3	**1A135**
	25 ft.	75	16/3	**1W943**
	50 ft.	75	18/3	**6X756**
Incandescent Lamp	35 ft.	75	18/3	**6X755**
Fluorescent Lamp	30 ft.	15	16/3	**5NKR8**

Choose LumaPro® For Value and Dependability

The innovative line of LumaPro portable lighting gives you quality and performance that is comparable to that of the national brands, at a budget-friendly price point.

Whether you need **Flashlights, Headlamps, Lanterns**, or any other portable lighting; no matter what your application—from mining to security to military— LumaPro has a durable, dependable lighting solution that you can take with you just about anywhere.

To see LumaPro's full line of flashlights and more, go to **grainger.com/lumapro**



No. 49XX94



No. 49XX78



No. 49XX89

★ LumaPro

General Purpose Handheld Flashlight

Value-oriented lighting for the casual or contingency user. This plastic body flashlight is meant for occasional use with low to medium lumens.



Lighting Technology	Lumens	Light Output Modes	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Plastic Body									
LED	190	High	Black	No	No	6.5 hr.	AA	6.92"	**49XX95**



No. 5RHT3



No. 5RHP7



No. 19MH76



No. 492T30



No. 49C128



No. 5RHP5



No. 5RHP6

★ GA GRAINGER APPROVED BRIGHT STAR STANLEY® Energizer® Princeton Tec® SKILCRAFT®

General Purpose Handheld Flashlights

Brand	Lighting Technology	Lumens	Light Output Modes	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Rubber Body										
GA	LED	17	—	Black	No	No	11 hr.	AA	6.5"	**5RHT3**
	LED	100	High	Black	No	No	8 hr.	AAA	6.63"	**5RHP7**
Plastic Body										
Bright Star	Incandescent	—	High	Orange	No	No	15 hr.	D	10.25"	**3YYV4**
Defender	LED	55	High / Low	Yellow	No	Yes	⅜ hr.	AA	5.75"	**19MH76**
Diversey	—	—	—		No	0	—	AAA	—	**32GT50**
Energizer	LED	65	High	Orange	No	No	21 hr.	AA	6.00"	**1LEE4**
GA	LED	0 to 49	—	Yellow	No	No	35 hr.	D	7.38"	**492T30**
	LED	30	High	Black	No	No	72 hr.	D	6.63"	**49C128**
	LED	30	High	Black	No	No	30 hr.	AAA	6.69"	**5RHP5**
	LED	30	High	Black	No	No	30 hr.	AAA	6.69"	**5RHP6**
	LED	35	High	Yellow	No	No	123 hr.	D	7.75"	**32ZN12**
Princeton Tec	Halogen	45	High	Yellow	No	Yes	5 hr.	AA	5.50"	**3XEH3**
Skilcraft	Incandescent	—	—	Black	No	No	—	D	—	**29VC57**
	Incandescent	—	—	Black	No	No	—	D	—	**29VC58**
STANLEY	LED	30	—	Black	No	No	41 hr.	AA	10.75"	**36N227**
Aluminum Body										
GA	LED	90	High	Silver	No	No	4/8 hr.	AAA	4.99"	**4FZK5**
	LED	220	High	Black	No	No	8 hr.	AAA	6.50"	**5RHP0**



No. 32ZN12



No. 29VC58



No. 36N227



No. 4FZK5



No. 5RHP0


No. 36P359


No. 49XX94


No. 49XX74


No. 49XX76


No. 49XX83


No. 49XX75


No. 49XX84


No. 49XX87


No. 36Y702


No. 9MHW1


No. 2V929


No. 11U138


No. 19YH52


No. 19YH53

FENIX LumaPro MAGLITE PELICAN STREAMLIGHT SUREFIRE Energizer Princeton Tec

Industrial Handheld Flashlights

These flashlights are highly durable, offer good performance, and provide extended run times. Suitable for professional trades and daily operations in challenging environments. Designed to withstand corrosion, oil, and chemicals, grit, and both warm and cold weather.

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Aluminum Body											
	LED	300/100/5	High / Medium / Low	SOS, Strobe	Black	No	Yes	0.7/1.4/300 hr.	AA	6.10"	**36P359**
	LED	960/400/6	High / Medium / Low	—	Black	No	No	1/200 hr.	AA	6.90"	**45W727**
	LED	960/460/14	High / Medium / Low	—	Black	No	Yes	1.2/150 hr.	CR123	5.50"	**32ZN15**
Fenix Lighting	LED	1000	Turbo / High / Medium / Low / Eco	Strobe	Black	Yes	Yes	150/28.4/8.8/3.3/1.4 hr.	18650	5.10"	**453A28**
	LED	1000	Turbo / High / Medium / Low / Eco	Strobe	Black	Yes	Yes	800 hr./28 hr. /10 hr. 40 min./4 hr. 10 min./2 hr. 15 min.	18650	5.5"	**453A29**
	LED	1000/245/10	High / Medium / Low	Strobe	Black	Yes	Yes	1.2/2.9/120 hr.	Proprietary	6.30"	**49XJ37**
	LED	210	High	—	Black	No	No	3 hr.	AAA	4.72"	**49XX94**
	LED	250	High / Low	Strobe	Black	No	No	25 hr.	D	12.91"	**49XX74**
	LED	250	High / Low	Strobe	Black	No	No	2.5 hr.	AA	6.10"	**49XX76**
LumaPro	LED	270/110/25	High / Medium / Low	Strobe	Black	No	No	18/5.5/1 hr.	AA	6.22"	**49XX83**
	LED	600	High / Medium / Low	SOS, Strobe	Black	Yes	Yes	2 hr.	18650	6.46"	**49XX75**
	LED	640/315/50	High / Medium / Low	Strobe	Black	No	Yes	15/4/2 hr.	CR123A	5.35"	**49XX84**
	LED	800/400/40	High / Medium / Low	Strobe	Black	Yes	Yes	50/7/4 hr.	3.7V	5.47"	**49XX87**
	LED	47	High	—	Black	No	Yes	1.5 hr.	AAA	3.18"	**36Y702**
	LED	47	High	—	Blue	No	Yes	1.5 hr.	AAA	3.18"	**36Y704**
	LED	100	High	—	Red	No	Yes	2.5 hr.	AAA	5.00"	**20HL23**
	LED	100	High	—	Silver	No	Yes	2.5 hr.	AAA	5.00"	**20HL24**
	LED	168	High	—	Black	No	No	80 hr.	D	12.34"	**2ELC1**
	LED	213	High	—	Black	No	No	16 hr.	D	10.00"	**2ELA9**
	LED	332	High	—	Black	No	Yes	2.5 hr.	AA	6.61"	**19G663**
	LED	332	High	—	Red	No	Yes	2.5 hr.	AA	6.61"	**20HL29**
	LED	332	High	—	Silver	No	Yes	2.5 hr.	AA	6.61"	**20HL31**
	LED	332	High	—	Blue	No	Yes	2.5 hr.	AA	6.61"	**20HL32**
	LED	332	High	—	Gray	No	Yes	2.5 hr.	AA	6.61"	**20HL30**
Maglite	LED	351	High / Low	—	Black	No	Yes	2.3 hr.	AA	6.61"	**19G664**
	LED	643	High / Low	—	Black	Yes	Yes	4 hr.	12V	12.81"	**20HL26** *
	LED	643	High / Low	—	Black	Yes	Yes	4 hr.	12V	12.81"	**20HL27** *
	LED	643	High / Low	—	Black	Yes	Yes	4 hr.	12V	12.81"	**20HL28** *
	LED	1000/120/20	High / Medium / Low	Strobe	Black	Yes	Yes	3.3/18/79 hr.	LiFeP04	10.69"	**453A64**
	Xenon	14	High	—	Black	No	Yes	5.3 hr.	AA	5.75"	**2V924**
	Xenon	14	High	—	Red	No	Yes	5.3 hr.	AA	5.75"	**8CJ51**
	Xenon	14	High	—	Silver	No	Yes	5.3 hr.	AA	5.75"	**8CJ52**
	Xenon	14	High	—	Blue	No	Yes	5.3 hr.	AA	5.75"	**9MHW1**
	Xenon	27	High	—	Black	No	No	8.5 hr.	D	10.00"	**2V929**
	Xenon	31	High	—	Black	No	No	4.3 hr.	C	8.94"	**5UCY3**
	Xenon	45	High	—	Black	No	No	10 hr.	D	12.34"	**2V930**
Pelican	LED	375	High / Low	—	Black	No	Yes	2.3/13 hr.	AA	6.20"	**14L596**
	LED	4/10/50	High / Medium / Low	—	Blue	No	Yes	36/14/1.5 hr.	AA	3.97"	**11U133**
	LED	50	High	—	Black	No	Yes	4/4.8/10 hr.	AAA	5.38"	**5TZK0**
	LED	95	High	—	Silver	No	Yes	16 hr.	AA	8.60"	**3AU22**
	LED	100/68	High	Laser	Black	No	Yes	2.8/5.3 hr.	AAA	5.38"	**11U138**
	LED	185	High	UV	Black	No	No	27/63/81 hr.	C	9.02"	**11U139**
	LED	250/220	High / Medium	—	Black	No	Yes	6 hr.w	AA	6.50"	**484P99**
Streamlight	LED	425/200/100	High / Medium / Low / Strobe	Strobe	Black	Yes	Yes	2/3.8/7.3 hr.	Proprietary	8.41"	**484R05**
	LED	425/200/100	High / Medium / Low / Strobe	Strobe	Black	Yes	Yes	2/3.8/7.3 hr.	Proprietary	8.41"	**484R08**
	LED	425/200/100	High / Medium / Low / Strobe	Strobe	Black	Yes	Yes	2/3.8/7.3 hr.	Proprietary	8.85"	**484R10**
	LED	740/380/190	High / Medium / Low	Strobe	Black	Yes	Yes	1.3/2.5/4.5 hr.	Proprietary	9.23"	**23X761**
	LED	800/400/200	High / Medium / Low	Strobe	Black	Yes	Yes	5/2.4/1.5 hr.	3.6V	8.41"	**404L35**
	LED	800/400/200	High / Medium / Low	Strobe	Black	Yes	Yes	5/2.4/1.5 hr.	3.6V	8.85"	**404L37**
	LED	850/350/85	High / Medium / Low	Strobe	Black	Yes	Yes	1.5/4/12 hr.	CR123	6.50"	**39CC90**
Surefire	LED	320	High	—	Black	No	Yes	2.8 hr.	CR123	5.20"	**19YL55**
Nylon Body											
Streamlight	LED	250/100	High / Low	Blue Light	Orange	No	Yes	4/12 hr.	CR123A	5.20"	**435X29**
	LED	250/100	High / Low	Blue Light	Black	No	Yes	4/12 hr.	CR123A	5.20"	**435X30**
Plastic Body											
Energizer	LED	300/45	High / Low	—	Black	No	Yes	6.5/65 hr.	AA	6.75"	**1LEE6**
	LED	400/40	High / Low	—	Black	No	Yes	11/50 hr.	AA	8.50"	**49XH03**
Princeton Tec	LED	90	High	—	Yellow	No	Yes	72 hr.	AAA	3.75"	**19YH52**
	LED	90	High	—	Black	No	Yes	72 hr.	AAA	3.75"	**19YH53**
Surefire	LED	320/15	High / Low	—	Yellow	No	Yes	2.8/45 hr.	CR123	5.20"	**19YL67**

**** No. 20HL27 includes 12VDC charger, No. 20HL28 includes 120VAC charger, and No. 20HL26 includes both 120VAC and 12VDC chargers.***

Safety Approval Definitions

Note: Always talk to your safety manager or consult supplier websites for additional information about the best products to use in your environment.

DIVISIONS

Describe the imminence of the danger.

Division 1 (Red)—"Hazard likely," such as inside a fuel tanker.

Division 2 (Green)—"Hazard not likely," such as in the proximity of a fuel tanker.

Flammable Liquid (Yellow)

Underwriters Laboratory

Factory Mutual

Mine Safety Health Administration

Canadian Safety Health Administration

International Electrotechnical Commission

ATEX Europe

Urban Search and Rescue

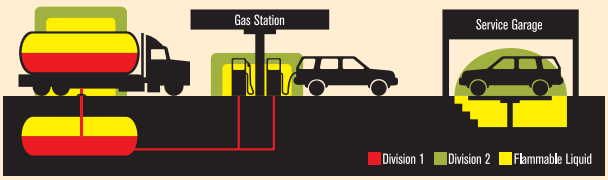
Intertek 3091325 Electrical Testing Laboratories

SGS U.S. Testing Company

Certified Electrical Safety

HAZARDOUS AREA GUIDELINES

	SUBSTANCE	TYPICAL ENVIRONMENTS	GROUP	CLASSIFICATIONS
CLASS 1	**Flammable Gases, Vapors, or Liquids** (Acetylene, Hydrogen, Ethylene, Propane)	- Oil Refinery - Paint Warehouse - Spray Booth - Offshore Oil Rig	A (Acetylene) B (Hydrogen) C (Ethylene) D (Propane)	**Division 1** Hazard can exist under normal operating conditions **Division 2** Hazard not likely under normal operating conditions
CLASS 2	**Combustible Dusts** (Metals [Div. 1 only], Coal, Grain)	- Coal Mine - Munitions Factory - Grain Silo - Hay Storage Facility	E (Metals-Div 1 only) F (Coal) G (Grain)	**Division 1** Hazard can exist under normal operating conditions **Division 2** Hazard not likely under normal operating conditions
CLASS 3	**Ignitable Fibers & Flyings** (Machined Magnesium)	- Paper Mill - Woodworking Facility - Textile Mill - Cotton Gin	N/A	**Division 1** Hazard not likely under normal operating conditions **Division 2** Hazard not likely under normal operating conditions





No. 52VG80



No. 49XG39

STREAMLIGHT

Dualie® 3AA LED Flashlights

- Submersible to 1 meter for 30 min.
- Intrinsically Safe - Class I, II, Div. 1

Rugged multifunction LED lights feature intuitive, independent switching for each function. The tough non-conductive, corrosion-proof polymer resin construction is impact-resistant to 2 meters and has an integrated low-profile pocket clip to help you keep your hands free for performing other tasks. Nos. 52VG80 and 52VG81 include a red laser pointer that can be used either on its own, or simultaneously with the forward-facing spot beam to identify equipment or hazards from a distance. Nos. 52NY68 and 52NY69 have an integrated magnetic clip to provide you with another option for hands-free lighting.



No. 52NY68

Lighting Technology	Lumens	Light Output Modes	Flashlight Beam Type	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Safety Rated: Class I, Div. 1												
LED	150	High	Flood, Spot	Laser	Plastic	Yellow	No	Yes	17 hr.	AA	7.00"	**52VG80**
LED	150	High	Flood, Spot	Laser	Plastic	Black	No	Yes	17 hr.	AA	7.00"	**52VG81**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Yellow	No	Yes	9/18 hr.	AA	7.00"	**49XG36**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Yellow	No	No	9/18 hr.	AA	7.00"	**49XG37**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Black	No	Yes	9/18 hr.	AA	7.00"	**49XG38**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Black	No	No	9/18 hr.	AA	7.00"	**49XG39**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Yellow	No	No	9/18 hr.	AA	7.00"	**52NY68**
LED	245/140	High / Low	Flood, Spot	—	Plastic	Black	No	No	9/18 hr.	AA	7.00"	**52NY69**
LED	180/105/275	High / Medium / Low	Flood, Spot	—	Polymer Resin	Yellow	Yes	Yes	5.5/7.25/13.5 hr.	Proprietary	7.50"	**435X13**
LED	180/105/275	High / Medium / Low	Flood, Spot	—	Polymer Resin	Black	Yes	Yes	5.5/7.25/13.5 hr.	Proprietary	7.50"	**435X14**
LED	180/105/275	High / Medium / Low	Flood, Spot	—	Polymer Resin	Yellow	Yes	Yes	5.5/7.25/13.5 hr.	Proprietary	7.50"	**435X15**
LED	180/105/275	High / Medium / Low	Flood, Spot	—	Polymer Resin	Black	Yes	Yes	5.5/7.25/13.5 hr.	Proprietary	7.50"	**435X16**



No. 48Z715



No. 49XX80



No. 49XX81



No. 49XX79



No. 53DN06



No. 53DN07



No. 20LN66



No. 49XH36



No. 20JN15



No. 11U131



No. 19YH50



No. 20AT86

Safety Rated Industrial Handheld Flashlights

Brand	Lighting Technology	Lumens	Light Output Modes	Flashlight Beam Type	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Safety Rated: Class I, Div. 1													
Bright Star	Incandescent	—	High	Fixed	—	Plastic	Orange	No	No	15 hr.	D	8.13"	**3JDH3**
	LED	50	High	Fixed	—	Plastic	Orange	No	No	200 hr.	D	8.25"	**48Z714**
	LED	50	High	Fixed	—	Plastic	Orange	No	No	250 hr.	D	10.20"	**48Z715**
	LED	100	High	Fixed	—	Plastic	Orange	No	No	26 hr.	AA	7.13"	**8RZC8**
	Xenon	8	High	Fixed	—	Nylon	Orange	No	No	3.8 hr.	AA	6.75"	**19F674**
Energizer	LED	60	High	Fixed	—	Plastic	Orange	No	No	135 hr.	D	10.50"	**1LEE5**
LumaPro	LED	45	High	Spot	—	Plastic	Yellow	—	No	17.5 hr.	AAA	5.50"	**49XX80**
	LED	120	High / Low	Spot	—	Plastic	Yellow	No	No	6/69 hr.	AA	7.00"	**49XX81**
	LED	157	High / Low	Flood, Spot	Strobe	Plastic	Yellow	No	No	6/12 hr.	AA	7.25"	**49XX79**
Pelican	LED	126	High	Fixed	—	Plastic	Black	No	Yes	7.5 hr.	AA	7.00"	**14L588**
	LED	126	High	Fixed	—	Plastic	Yellow	No	Yes	7.5 hr.	AA	7.00"	**14L589**
	LED	132	High / Low	Fixed	Strobe	Plastic	Black	Yes	Yes	5/34 hr.	AA	6.11"	**53DN06**
	LED	132	High / Low	Fixed	Strobe	Plastic	Yellow	Yes	Yes	5/34 hr.	AA	6.11"	**53DN07**
	LED	160	High	Fixed	—	Plastic	Black	No	Yes	19 hr.	AA	6.14"	**20LN66**
	LED	160	High	Fixed	—	Plastic	Yellow	No	Yes	19 hr.	AA	6.14"	**20LN67**
Princeton Tec	LED	150	High	Fixed, Spot	—	Plastic	Yellow	No	Yes	10 hr.	AA	6.00"	**49XH36**
	LED	150	High	Fixed, Spot	—	Plastic	Black	No	Yes	10 hr.	AA	6.00"	**49XH37**
Streamlight	LED	30	High	Fixed	—	Plastic	Yellow	No	Yes	10 hr.	1.5V	5.25"	**3AU15**
	LED	60	High / Low	Fixed, Spot	—	Plastic	Yellow	No	Yes	16 hr.	AAA	5.40"	**435X21**
	LED	60	High / Low	Fixed, Spot	—	Plastic	Black	No	Yes	16 hr.	AAA	5.40"	**435X22**
	LED	65	High	Fixed	—	Plastic	Yellow	No	Yes	24 hr.	AA	6.40"	**2RVL8**
	LED	67	High	Fixed	—	Plastic	Yellow	No	Yes	155 hr.	AA	6.50"	**3AU16**
	LED	85	High	Fixed	—	Plastic	Yellow	No	No	336 hr.	C	8.55"	**3AU17**
	LED	100	High	Fixed	—	Plastic	Yellow	No	Yes	6 hr.	AA	7.00"	**20JN15**
	LED	130/50	High / Low	Fixed	—	Nylon	Yellow	Yes	Yes	4/12 hr.	4.8V	10.20"	**11U130**
	LED	130/50	High / Low	Fixed	—	Nylon	Black	Yes	Yes	4/12 hr.	4.8V	10.20"	**11U131**
	LED	150	High	Fixed	—	Plastic	Yellow	No	No	18 hr.	C	9.30"	**40X985**
	LED	175/115/115	High / Low / Low	Dual, Flood, Spot	—	Plastic	Yellow	No	Yes	24/24/15 hr.	AA	6.10"	**435X23**
	LED	175/115/115	High / Low / Low	Dual, Flood, Spot	—	Plastic	Black	No	Yes	24/24/15 hr.	AA	6.10"	**435X24**
Safety Rated: Class I, Div. 2													
Princeton Tec	LED	350	High	Fixed	—	Plastic	Black	No	Yes	10 hr.	AA	6.50"	**19YH50**
	LED	350	High	Fixed	—	Plastic	Yellow	No	Yes	10 hr.	AA	6.50"	**19YH51**
Streamlight	LED	100	High	Fixed	—	Plastic	Yellow	No	Yes	6 hr.	AA	7.00"	**5XA80**
	LED	300/50	High / Low	Fixed	Strobe	Plastic	Yellow	No	Yes	2.8/6/24 hr.	AA	7.00"	**20AT86**


No. 3HER8


No. 49XJ36


No. 49XJ39


No. 49XJ40


No. 49XX92


No. 36Y709


No. 36Y713



No. 49XK75


No. 2RVP2


No. 22LU19


No. 23X778

Energizer · STREAMLIGHT · FENIX · LumaPro · MAGLITE · PELICAN · SUREFIRE

Tactical Flashlights

These compact flashlights offer high performance, high durability, and feature enhanced body texture for improved grip. Suitable for professionals in challenging environments, such as law enforcement, military, and security. High-lumen lights feature tail switch operation, which may include strobe for temporary disabling. Sizes range from smaller hand held for ease of transport on belt to larger, heavier lights for security forces who may want to use light as a baton or to break through auto glass.

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Color	Lens Material	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Stainless Steel Body												
Energizer	LED	400	High	Strobe	Black	Polycarbonate	No	Yes	4 hr.	AA	1.90"	**401Y27**
Plastic Body												
Railhead Gear	LED	130	High	—	Yellow	Polycarbonate	No	No	20 hr.	D	7.75"	**39F126**
Nylon Body												
	—	600/260/35	High / Medium / Low	Strobe	Black	Glass	No	Yes	2.75/5.5/34 hr.	CR123	5.46"	**453A21**
	—	600/260/35	High / Medium / Low	Strobe	Yellow	Glass	—	Yes	2.75/5.5/34 hr.	CR123	5.46"	**453A22**
Streamlight	—	600/260/35	High / Medium / Low	Strobe	Tan	Glass	—	Yes	2.75/5.5/34 hr.	CR123A	5.46"	**453A23**
	LED	55	High / Medium / Low	Strobe	Tan	Polycarbonate	No	Yes	5.5 hr.	AA	2.34"	**3HER8**
	LED	600/260/35	High / Medium / Low / Strobe	Strobe	Yellow	Polycarbonate	No	Yes	2.8/5.5/34 hr.	CR123A	5.90"	**484R25**
Aluminum Body												
	LED	265/95/8	High / Medium / Low	—	Black	Glass	No	Yes	0.5/4.8/75 hr.	AA	6.30"	**49XJ32**
	LED	900/400/5	High / Medium / Low	SOS, Strobe	Black	Glass	No	No	1.9/4/260 hr.	CR123	5.10"	**49XJ36**
Fenix Lighting	LED	960/400/50	High / Medium / Low	—	Black	Glass	No	No	1.8/140 hr.	CR123	6.30"	**36P368**
	LED	1000	Turbo / High / Medium / Low	Strobe	Black	Tempered Glass	Yes	Yes	160/11/4.3/1.8 hr.	18650	6.00"	**453A27**
	LED	1000/400/10	High / Medium / Low	Strobe	Black	Glass	No	No	1.2/3.4/150 hr.	CR123	5.50"	**49XJ39**
	LED	4000/1600/35	High / Medium / Low	Strobe	Black	Glass	No	No	1.7/3.7/270 hr.	CR123	7.30"	**49XJ40**
LumaPro	LED	1000	High / Low	Strobe	Black	Polycarbonate	Yes	Yes	3 hr.	CR18650	9.55"	**49XX92**
	LED	200	High / Low	Strobe	Black	Polycarbonate	No	Yes	6.8 hr.	AAA	4.80"	**36MU51**
	LED	310	High / Low	Strobe	Black	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y709**
	LED	310	High / Low	Strobe	Green	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y710**
Maglite	LED	310	High / Low	Strobe	Gray	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y711**
	LED	320	High / Low	Strobe	Black	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y713**
	LED	320	High / Low	Strobe	Green	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y714**
	LED	320	High / Low	Strobe	Gray	Polycarbonate	No	Yes	4 hr.	CR123	5.28"	**36Y715**
	LED	543	High / Low	Strobe	Black	Polycarbonate	Yes	Yes	2.5 hr.	18650	5.80"	**34AW50**
	LED	305/30	High / Low	Strobe	Black	Polycarbonate	Yes	Yes	3.5/25 hr.	AA	6.48"	**49XK77**
Pelican	LED	602/311/64	High / Medium / Low	Strobe	Black	Polycarbonate	No	Yes	1.5/2.3/16 hr.	CR123	5.31"	**49XK75**
	LED	803/447/25	High / Medium / Low	—	Black	Polycarbonate	Yes	Yes	2.5/4/69 hr.	Proprietary	12.67"	**4ETV1**
	LED	160	High	—	Black	Polycarbonate	No	Yes	3.5 hr.	CR123	5.65"	**2RVP1**
	LED	160	High	—	Black	Polycarbonate	No	Yes	3.5 hr.	CR123	6.62"	**2RVP2**
	LED	160	High	—	Black	Glass	No	Yes	3.5 hr.	CR123	5.60"	**5XA83**
	LED	250/18	High / Low	Strobe	Black	Glass	No	Yes	2/43 hr.	AA	6.14"	**55TA16**
	LED	375/130/65	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	2.5/4/5.5/7.5 hr.	Proprietary	5.90"	**5TZK4**
	LED	375/130/65	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	2.5/4/5.5/7.5 hr.	Proprietary	5.90"	**5TZK3**
	LED	375/130/65	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	2.5/4/7.5 hr.	Proprietary	5.90"	**21XN04**
Streamlight	LED	500/40	High / Low	Strobe	Black	Glass	Yes	Yes	2.75/30 hr.	CR123A or 18650	5.12"	**435X27**
	LED	615/250/125	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.25/2.5/3.5 hr.	Proprietary	5.90"	**22LU18**
	LED	615/250/125	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.25/2.5/3.5 hr.	Proprietary	5.90"	**22LU19**
	LED	725/35	High / Low	Strobe	Black	Glass	No	Yes	1.3/18 hr.	CR123	5.46"	**30KA25**
	LED	750/35	High / Low	Strobe	Black	Glass	No	Yes	1.3/2.5/18 hr.	CR123	5.40"	**23X778**
	LED	1000/400/65	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.25/3/20 hr.	CR123A or 18650	5.44"	**435X28**
	LED	1100/35	High / Low	Strobe	Black	Glass	No	Yes	2/43 hr.	CR123	7.10"	**30KA24**
	LED	2200/600/60	High / Medium / Low	Strobe	Black	Glass	—	Yes	1.5/4/40 hr.	CR123A or 18650	8.62"	**435X25**
	LED	250/100/5	High / Low	Infrared	Black	Polycarbonate	No	Yes	1.5/20.5 hr.	CR123	4.40"	**49XG33**
	LED	320	High	—	Black	Polycarbonate	No	Yes	2.5 hr.	CR123	5.20"	**13H214**
Surefire	LED	400	High / Low	—	Black	Polycarbonate	No	Yes	1.2/50 hr.	CR123A	3.87"	**449U07**
	LED	800	High / Low	—	Black	Polycarbonate	No	Yes	1/70 hr.	CR123A	5.00"	**449U09**
	LED	1200	High / Low	—	Black	Polycarbonate	No	Yes	1/60 hr.	CR123A	5.84"	**449U10**
	LED	1500	High	—	Black	Polycarbonate	Yes	Yes	1 hr.	CR123A	5.81"	**449U08**


No. 40XA77


No. 49XX77


No. 49XX93


No. 49XX85


No. 49XX90



No. 43MJ59


No. 24M997


No. 49XX78


No. 1UNB6


No. 49XJ34


No. 49XG35

Princeton Tec | Energizer | FENIX | LumaPro | PELICAN | STREAMLIGHT | SUREFIRE

LED Headlamps

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Mounting Type	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	Body Dia.	Item No.
General Purpose													
Princeton Tec	LED	200	High/Medium/Low	Red Light	Head Strap	Plastic	Green	Yes	Yes	13/100 hr.	Li-Ion 2200mAh	—	**453G35**
	LED	250	High/Medium/Low	Red Light	Head Strap	Plastic	Orange	No	Yes	50/120 hr.	AAA	—	**453G34**
Industrial													
Energizer	LED	200	High / Medium / Low	—	Strap	Plastic	Red	No	Yes	8 hr.	AAA	—	**40XA77**
	LED	300	High / Medium / Low	Red Light	Strap	Plastic	Gray	No	Yes	6 hr.	AAA	—	**40XA76**
	LED	325/110	High / Low	—	Strap	Plastic	Black	No	Yes	6.5/22 hr.	AA	5.88"	**4EZD5**
Fenix Lighting	LED	4/30/130/500	Turbo / High / Medium / Low	—	Head Strap	Aluminum	Black	Yes	Yes	90/24/10/2.5 hr.	16340	1.30"	**453A31**
	LED	5/50/150/400/950	Turbo / High / Medium / Low / Eco	Red Light	Head Strap	Aluminum	Black	Yes	Yes	100/29/10/3/0.8 hr.	18650	1.80"	**453A30**
LumaPro	LED	115	High / Low	SOS, Strobe	Strap	Aluminum	Black	No	No	1.2 hr.	AA	0.95"	**49XX77**
	LED	120/15	High / Low	Red Light, Strobe	Strap	Plastic	Black	No	No	9.3 hr.	AAA	1.27"	**49XX93**
	LED	200/90/20	High / Medium / Low	Strobe	Head Strap	Plastic	Black	Yes	Yes	3.5/30 hr.	3.7V	1.50"	**49XX85**
	LED	280	High / Low	Red Light, Strobe	Strap	Plastic	Black	No	No	5.5 hr.	AA	1.65"	**49XX90**
Pelican	LED	200/12	High / Low	Red Light, SOS	Strap	Plastic	Black	No	Yes	8/175 hr.	AAA	—	**33W919**
	LED	204/42	High / Medium / Low	Red Light, Strobe	Strap	Plastic	Black	No	Yes	2/11 hr.	AAA	2.25"	**43MJ59**
Princeton Tec	LED	70	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	50/146 hr.	AAA	0.75"	**3KKX6**
	LED	85	High/Low	—	Head Strap	Plastic	Black	No	Yes	25/120 hr.	AAA	—	**453G33**
	LED	200	High/Medium/Low	Red Light	Head Strap	Plastic	Green	Yes	Yes	13/100 hr.	Li-Ion 2200mAh	—	**453G37**
	LED	250	High/Medium/Low	Red Light	Head Strap	Plastic	Orange	No	Yes	50/120 hr.	AAA	—	**453G36**
	LED	300	High / Low	—	Strap	Plastic	Black	No	Yes	28/150 hr.	AAA	0.75"	**5PVY1**
	LED	450	High / Medium / Low	Strobe	Strap	Plastic	Black	Yes	Yes	5/90 hr.	CR123A	2.50"	**24M997**
Streamlight	LED	125	High / Low	—	Strap	Plastic	Yellow	Yes	Yes	3.5/10 hr.	Proprietary	2.50"	**35XM74**
	LED	125	High / Low	—	Strap	Plastic	Black	Yes	Yes	3.5/10 hr.	Proprietary	2.50"	**35XM75**
	LED	180/35	High / Low	Beacon, Strobe	Head Strap	Plastic	Yellow	Yes	Yes	2/9.5 hr.	Proprietary	0.75"	**453A16**
	LED	185/30	High / Low	—	Head Strap	Plastic	Yellow	Yes	Yes	2/9 hr.	Proprietary	0.75"	**435X18**
	LED	185/30	High / Low	—	Head Strap	Plastic	Black	Yes	Yes	2/9 hr.	Proprietary	0.75"	**435X19**
	LED	200/75/25	High / Medium / Low	Red Light	Head Strap	Plastic	Yellow	No	Yes	6/14/38 hr.	AAA	2.19"	**453A13**
	LED	200/75/25	High / Medium / Low	Red Light	Head Strap	Plastic	Yellow	No	Yes	6/14/38 hr.	AAA	2.19"	**453A14**
	LED	375/175/50	High / Medium / Low	—	Head Strap	Nylon	Red	Yes	Yes	4.75/8.5/20 hr.	Proprietary	2.13"	**453A15**
	LED	635/105/20	High / Medium / Low	—	Strap	Aluminum	Black	No	Yes	1.5/2.7/20 hr.	CR123A	1.20"	**20JN14**
Industrial, Safety Rated: Class I, Div. 2													
Princeton Tec	LED	78	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	80/108 hr.	AAA	2.37"	**3KKX4**
	LED	78	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	80/108 hr.	AAA	2.37"	**3KKZ5**
	LED	78	High / Low	—	Strap	Plastic	Black	No	Yes	90/120 hr.	AA	1.50"	**3KLA2**
	LED	130	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	121/113 hr.	AAA	2.50"	**3KKZ3**
	LED	130	High / Medium / Low	Strobe	Strap	Plastic	Orange	No	Yes	121/113 hr.	AAA	2.50"	**3KKZ1**
	LED	550	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	90/150 hr.	AA	2.50"	**3KKW3**
	LED	550	High / Medium / Low	Strobe	Strap	Plastic	Orange	No	Yes	90/150 hr.	AA	2.50"	**3KKW5**
Streamlight	LED	80/25/6	High / Medium / Low	Green Light	Strap	Plastic	Green	No	Yes	5/19.5/63 hr.	AAA	1.75"	**3KKY8**
	LED	80/35/11	High / Medium / Low	—	Strap	Plastic	Yellow	No	Yes	5/10/53 hr.	AAA	1.75"	**4VA82**
	LED	120/45/13	High / Medium / Low	—	Strap	Plastic	Yellow	No	Yes	3.5/10/55 hr.	AAA	1.75"	**1PJH9**
	LED	150/100/45	High / Medium / Low	—	Strap	Plastic	Yellow	No	Yes	3/4.5/30 hr.	AAA	1.75"	**1PJJ3**
Industrial, Safety Rated: Class I, Div. 1													
Energizer	LED	75	High / Low	Green Light, Red Light	—	Plastic	Orange	No	No	20 hr.	AA	5.88"	**4EZD6**
LumaPro	LED	200	High / Low	—	Strap	Plastic	Yellow	No	No	2.5/4 hr.	AAA	1.87"	**49XX78**
Pelican	LED	33/17	High / Low	Strobe	Strap	Plastic	Black	No	Yes	20/40 hr.	AAA	—	**49XK74**
	LED	60	High	—	Strap	Plastic	Black	No	Yes	10 hr.	AAA	—	**6WNZ9**
	LED	237/140/113/32	High / Low / Downcast / Flashing	Strobe	Clip On	Plastic	Yellow	Yes	Yes	32 hr.	AA	11.00"	**489M76**
Princeton Tec	LED	78	High / Low	—	Strap	Plastic	Black	No	Yes	105/110 hr.	AAA	2.37"	**5PVY0**
	LED	130	High / Low	—	Strap	Plastic	Black	No	Yes	121/113 hr.	AAA	2.50"	**5PVX9**
	LED	150	High / Low	—	Strap	Plastic	Black	No	Yes	108 hr.	AAA	1.00"	**49XH38**
Streamlight	LED	85/30	High / Low	—	Strap	Plastic	Yellow	No	Yes	8/24 hr.	AAA	1.75"	**36ND52**
	LED	90/20	High / Low	—	Strap	Plastic	Yellow	No	Yes	8/50 hr.	AAA	1.75"	**36ND53**
	LED	120	High	—	Strap	Plastic	Yellow	No	Yes	11 hr.	AA	1.88"	**1UNB6**
Tactical													
Fenix Lighting	LED	900/400/10	High / Medium / Low	SOS	Strap	Plastic	Gray	No	Yes	3.2/8/170 hr.	AA	2.40"	**49XJ34**
Princeton Tec	LED	10	High	Red Light	Rail	Plastic	Tan	No	Yes	36 hr.	CR2016	1.25"	**13J071**
	LED	55	High / Low	—	Strap	Plastic	Tan	No	Yes	4/46 hr.	AA	0.50"	**24M991**
	LED	125	High / Low	Red Light	Strap	Plastic	Tan	No	Yes	4/40 hr.	CR123A	0.75"	**24M993**
Streamlight	LED	1000/400/65	High / Medium / Low	—	Head Strap	Aluminum	Black	Yes	Yes	1/20 hr.	Proprietary	1.20"	**435X17**
Surefire	LED	300/1	High / Low	SOS	Strap	Aluminum	Black	No	Yes	1.5/50 hr.	CR123A	—	**49XG35**
Tactical, Safety Rated: Class I, Div. 2													
Princeton Tec	LED	60	High / Medium / Low	Strobe	Strap	Plastic	Black	No	Yes	102/150 hr.	AAA	2.37"	**5PVY3**
	LED	60	High / Medium / Low	Strobe	Strap	Plastic	Tan	No	Yes	102/150 hr.	AAA	2.37"	**5PVY5**
	LED	60	High / Medium / Low	Strobe	Strap	Plastic	Tan	No	Yes	113/121 hr.	AAA	2.50"	**5PVY4**


No. 5RHT1


No. 49XX82


No. 5HB98


No. 5WAV0


No. 20JN06 and 20JN10


No. 20JN07 and 20JN11


No. 49XG40


No. 14L584


No. 23X772


No. 5TZJ3

GA GRAINGER APPROVED NITE IZE STREAMLIGHT PELICAN LumaPro

LED Hands-Free Flashlights

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
General Purpose												
GA	LED	15	—	—	Plastic	Black	—	No	35 hr.	AAA	1.50"	**5RHT1**
Nite Ize	LED	—	High / Low	—	Nylon	Red	No	Yes	100 hr.	CR2032	7.32"	**38V820**
Streamlight	LED	27	High	—	Plastic	Black	No	Yes	40 hr.	AAA	3.52"	**9W848**
	LED	27	High	—	Plastic	Yellow	No	Yes	40 hr.	AAA	3.52"	**39AU37**
Industrial												
Pelican	LED	4	High	—	Plastic	Yellow	No	Yes	100 hr.	1.5V	1.75"	**5RV35**
	LED	9	High	—	Plastic	Yellow	No	Yes	34 hr.	CR2032	3.50"	**1UKC1**
Industrial, Safety Rated: Class I, Div. 1												
LumaPro	LED	250	High / Low	—	Plastic	Yellow	No	No	6.5/13 hr.	AA	7.13"	**49XX82**
Pelican	LED	9	High	—	Plastic	Black	No	Yes	34 hr.	CR2032	3.50"	**5HB98**
	LED	9	High	—	Plastic	Orange	No	Yes	34 hr.	CR123A	3.50"	**5WAV0**
Streamlight	LED	150/55	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.5/12 hr.	Proprietary	9.20"	**20JN10**
	LED	150/55	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.5/12 hr.	Proprietary	9.20"	**20JN11**
	LED	150/55	High / Low	Strobe	Nylon	Yellow	No	Yes	3.5/12 hr.	AA	9.20"	**20JN12**
	LED	150/55	High / Low	Strobe	Nylon	Orange	No	Yes	3.5/12 hr.	AA	9.20"	**20JN13**
	LED	163/50	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.8/12 hr.	Proprietary	9.20"	**20JN06**
	LED	163/50	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.8/12 hr.	Proprietary	9.20"	**20JN07**
	LED	163/50	High / Low	Strobe	Nylon	Yellow	No	Yes	3.8/12 hr.	AA	9.20"	**20JN08**
	LED	163/50	High / Low	Strobe	Nylon	Orange	No	Yes	3.8/12 hr.	AA	9.20"	**20JN09**
	LED	175/60	High / Low	Strobe	Nylon	Yellow	No	Yes	4/15 hr.	AA	7.06"	**49XG40**
	LED	175/60	High / Low	Strobe	Nylon	Orange	No	Yes	4/15 hr.	AA	7.06"	**1UNC5**
Industrial, Safety Rated: Class I, Div. 2												
Pelican	LED	112	High	—	Plastic	Yellow	Yes	Yes	4.5 hr.	AA	7.51"	**14L584**
Streamlight	LED	180/55	High / Low	Strobe	Nylon	Orange	No	Yes	3.5/16 hr.	AA	9.20"	**38R002**
	LED	200/63	High / Low	Strobe	Nylon	Yellow	No	Yes	3.5/16 hr.	AA	9.20"	**23X772**
	LED	200/63	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.5/16 hr.	Proprietary	9.20"	**23X771**
Tactical												
Streamlight	LED	115	High	Blue Light	Aluminum	Black	No	Yes	6 hr.	CR123A	3.26"	**5TZJ3**
Tactical, Safety Rated: Class I, Div. 1												
Streamlight	LED	175/60	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.5/13 hr.	4.8V	7.06"	**21XN10**
Tactical, Safety Rated: Class I, Div. 2												
Streamlight	LED	200/63	High / Low	Strobe	Nylon	Orange	No	Yes	3.5/16 hr.	AA	9.20"	**21XN09**



No. 52YN77


No. 4FZK4


No. 49XX89


No. 406D71


No. 5TZJ5

Lanterns

Energizer | GA GRAINGER APPROVED | LumaPro | STREAMLIGHT | BRIGHT STAR | PELICAN

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Type	Battery Size	Includes	Item No.
General Purpose													
Energizer	LED	80	High / Low	—	Plastic	Yellow	No	Yes	140 hr.	Alkaline	D	—	**52YN77**
GA	LED	160	High	—	Plastic	Yellow	No	No	36 hr.	Carbon Zinc	6V	Nylon Lanyard	**4FZK4**
LumaPro	LED	400	High / Low	Green Light	Plastic	Gray	No	No	28 hr.	Alkaline	D	Carabiner	**49XX89**
Industrial													
Streamlight	LED	200/100/50/7	High / Medium / Low	SOS	Plastic	Tan	No	No	7/15.5/37/192/288 hr.	Alkaline	AA	—	**36MU58**
	LED	540/275/55	High / Medium / Low	Red Light, SOS	Plastic	Tan	No	No	30/70/295 hr.	Alkaline	D	—	**406D71**
	LED	1000/600/75	High / Medium / Low	—	Polycarbonate	Yellow	No	No	3/6/55 hr.	Alkaline	C	—	**484P96**
	LED	5300/2500/1300	High / Medium / Low	—	Plastic	Yellow	Yes	Yes	4/9/18 hr.	Sealed Lead Acid	12V	Batteries, Shoulder Strap, (1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charger	**30KA23**
Industrial, Safety Rated: Class I, Div. 1													
Bright Star	Krypton	60	—	—	Plastic	Orange	No	No	8/16 hr.	Alkaline	6V	—	**3KXN5**
	LED	90	—	—	Plastic	Orange	No	No	150 hr.	Alkaline	D	—	**48Z713**
Pelican	LED	588/244	High / Low	Strobe	Plastic	Yellow	Yes	Yes	4.5/11.5 hr.	NiMH	C	—	**49XK76**
Industrial, Safety Rated: Class I, Div. 2													
Streamlight	LED	1200/350	High / Low	Blue Light	Nylon	Orange	Yes	Yes	5.5/16 hr.	Lithium-Ion	Proprietary	Rechargeable Battery, Charge Base, 120V AC Charge Cord, 12V DC Charge Cord	**453A19**
	LED	1200/350	High / Low	Blue Light	Nylon	Yellow	Yes	Yes	5.5/16 hr.	Lithium-Ion	Proprietary	Rechargeable Battery, Charge Base, 120V AC Charge Cord, 12V DC Charge Cord	**453A20**
Tactical													
Streamlight	LED	540/330	High / Low	—	Plastic	Orange	Yes	Yes	7/15 hr.	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap	**23X773**
	LED	540/330	High / Low	—	Plastic	Orange	Yes	Yes	7/15 hr.	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap, Emergency Lighting Wall Sticker	**21XN19**
	LED	540/330	High / Low	—	Plastic	Yellow	Yes	Yes	7/15 hr.	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap	**23X774**
	LED	615/330	High / Low	—	Plastic	Yellow	Yes	Yes	8/18 hr.	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap	**5TZJ5**
	LED	615/330	High / Low	—	Plastic	Orange	Yes	Yes	8/18 hr.	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap	**5TZJ4**
	LED	5300/2500/1300	High / Medium / Low	—	Plastic	Orange	Yes	Yes	1.8/4.5/10 hr.	Sealed Lead Acid	Proprietary	Shoulder Strap, (1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack	**20AT87**
Tactical, Safety Rated: Class I, Div. 2													
Streamlight	LED	180/80	High / Low	—	Plastic	Orange	Yes	Yes	5/10 hr.	Lithium-Ion	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Quick Release Shoulder Strap	**3XFL8**


No. 1LEF1


No. 49XX91


No. 49XX86


No. 38RV49


No. 38RV51


No. 23X775

LED Spotlights

Energizer | LumaPro | Princeton Tec | STREAMLIGHT

Brand	Lighting Technology	Lumens	Light Output Modes	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Type	Battery Size	Item No.
Industrial											
Energizer	LED	600/215	High / Low	Plastic	Black	No	Yes	6.2/22 hr.	Alkaline	AA	**1LEF1**
LumaPro	LED	500	High	Plastic	Gray	No	No	9.5 hr.	Alkaline	C	**49XX91**
	LED	700/330/65	High / Medium / Low	Plastic	Gray	Yes	Yes	2.5/6/15/10 hr.	Lithium-Ion	3.7V	**49XX86**
Princeton Tec	LED	550	High	Plastic	Black	No	Yes	24 hr.	Alkaline	C	**38RV45**
	LED	550	High	Plastic	Yellow	No	Yes	24 hr.	Alkaline	C	**38RV50**
	LED	700	High	Plastic	Black	No	Yes	30 hr.	Alkaline	C	**38RV49**
	LED	700	High	Plastic	Yellow	No	Yes	30 hr.	Alkaline	C	**38RV51**
Streamlight	LED	550/40	High / Low	Plastic	Yellow	No	No	10/82 hr.	Alkaline	C	**23X775**
	LED	550/40	High / Low	Plastic	Black	No	No	10/82 hr.	Alkaline	C	**23X776**
	LED	1000/550/35	High / Medium / Low	Plastic	Yellow	Yes	Yes	3/6/80 hr.	Lithium-Ion	Proprietary	**21XN43**
	LED	1000/550/35	High / Medium / Low	Plastic	Black	Yes	Yes	3/6/80 hr.	Lithium-Ion	Proprietary	**21XN44**


No. 49XX73


No. 2RVN2


No. 49XJ33


No. 36Y705


No. 33H456


No. 55TA14

★ LumaPro® STREAMLIGHT® PELICAN® FENIX® MAGLITE® NITE IZE® SUREFIRE®

Keychain and Mini Flashlights

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Keychain Flashlight											
Industrial											
LumaPro	LED	20	—	—	Aluminum	Black	No	6 hr.	AAA	2.83"	**49XX73**
Streamlight	LED	10	High	—	Aluminum	Black	Yes	8 hr.	LR44	1.47"	**2RVN2**
	LED	10	High	—	Aluminum	Black	Yes	96 hr.	LR44	2.36"	**3AU18**
	LED	10	High	—	Aluminum	Blue	Yes	8 hr.	LR44	1.47"	**11U141**
Mini Flashlight											
General Purpose											
Pelican	LED	16	High	—	Aluminum	Black	Yes	8.5 hr.	LR41	1.50"	**49XK73**
Industrial											
Fenix Lighting	LED	85/8	High / Medium / Low	—	Aluminum	Black	Yes	0.8/15 hr.	AAA	2.60"	**36P352**
	LED	130/8	High / Medium / Low	—	Aluminum	Black	Yes	1/22 hr.	AA	3.50"	**32ZN14**
	LED	170/11	High / Medium / Low	—	Aluminum	Black	No	30 hr.	CR123	2.30"	**36P354**
	LED	1000/450/50	High / Medium / Low	SOS, Strobe	Aluminum	Black	No	1.9/4/150 hr.	CR123	4.80"	**49XJ33**
Maglite	Incandescent	2	High	—	Aluminum	Black	Yes	3.5 hr.	AAA	3.18"	**4V380**
	Incandescent	2	High	—	Aluminum	Silver	Yes	3.5 hr.	AAA	3.18"	**8RHA8**
	LED	47	High	—	Aluminum	Gray	Yes	1.5 hr.	AAA	3.18"	**36Y703**
	LED	100	High	—	Aluminum	Black	Yes	2.5 hr.	AAA	5.00"	**36Y705**
	LED	100	High	—	Aluminum	Gray	Yes	2.5 hr.	AAA	5.00"	**36Y706**
	LED	230	High / Medium / Low	SOS, Strobe	Aluminum	Black	Yes	1.8 hr.	AAA	4.80"	**19G665**
Nite Ize	LED	—	High / Low	UV	Aluminum	Silver	Yes	17.5/85 hr.	CR123	4.75"	**33H456**
Streamlight	LED	10/5/3	High / Medium / Low	Strobe	Plastic	Black	Yes	45 hr.	CR2016	1.80"	**20AT91**
Tactical											
Fenix Lighting	LED	5/50/150/550	Turbo / High / Medium / Low	Strobe	Aluminum	Black	Yes	53/7.2/2.4/0.6 hr.	16340	3.70"	**453A24**
	LED	125/3	High / Medium / Low	SOS, Strobe	Aluminum	Black	No	2.3/100 hr.	AA	4.10"	**36P357**
Maglite	LED	200	High / Low	Strobe	Aluminum	Black	Yes	6.8 hr.	AAA	4.80"	**6MKN8**
Streamlight	LED	115/8	High / Low	Strobe	Aluminum	Black	Yes	1.75/17 hr.	AAA	3.94"	**404L39**
	LED	350/30	High / Low	Strobe	Aluminum	Black	Yes	3.2/35 hr.	CR123A	4.77"	**55TA14**
Surefire	LED	320/15	High / Low	—	Plastic	Black	Yes	2.8/45 hr.	CR123	5.20"	**19YL66**


No. 49XX88


No. 3AU11


No. 2RVL9


No. 2XTH1



No. 5WAF9



No. 39UE39


No. 3AU13

★ LumaPro® MAGLITE® STREAMLIGHT® PELICAN® Energizer® GA GRAINGER APPROVED RAYOVAC®

Penlights and Inspection Flashlights

Brand	Lighting Technology	Lumens	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Penlight											
LumaPro	LED	90	High	—	Aluminum	Black	No	10 hr.	AAA	5.16"	**49XX88**
Maglite	Xenon	9	High	—	Aluminum	Black	Yes	2.5 hr.	AAA	5.00"	**4V018**
Pelican	LED	120	High	—	Aluminum	Black	Yes	2.8 hr.	AAA	5.37"	**33W917**
Streamlight	LED	11	High	—	Aluminum	Black	Yes	24 hr.	AAAA	6.21"	**3AU11**
	LED	11/7/2	High	UV	Aluminum	Black	Yes	24 hr.	AAAA	6.21"	**2RVN1**
	LED	45	High	—	Aluminum	Black	Yes	2.3 hr.	AAA	3.60"	**2RVN3**
	LED	65	High	—	Aluminum	Black	Yes	6.5 hr.	AAA	5.90"	**435X20**
	LED	100	High	—	Aluminum	Black	Yes	8 hr.	AAA	5.30"	**2RVL9**
	LED	100	High	—	Aluminum	Blue	Yes	8 hr.	AAA	5.30"	**39AU33**
	LED	100	High	—	Aluminum	Red	Yes	8 hr.	AAA	5.30"	**39AU35**
	LED	115	High	—	Aluminum	Black	Yes	7.5 hr.	AA	20.00"	**1PJJ4**
Penlight, Safety Rated: Class I, Div. 1											
Pelican	LED	5	High	—	Plastic	Black	Yes	32 hr.	AAAA	6.25"	**1WNC5**
Streamlight	LED	11	High	—	Aluminum	Black	Yes	24 hr.	AAAA	6.21"	**3KZW1**
Inspection Flashlight											
Energizer	LED	35	High	—	Stainless Steel	Silver	Yes	20 hr.	AAA	5.25"	**5WAF9**
GA	LED	3	—	—	Aluminum	Silver	No	25 hr.	AAA	4.00"	**2XTH1**
	LED	130	High	—	Rubber	Red	Yes	1.5 hr.	AAA	6.90"	**54UA17**
Rayovac	LED	15	High	UV	Aluminum	Purple	Yes	7 hr.	AAA	1.44"	**39UE39**
Streamlight	LED	160/40	High / Low	—	Aluminum	Black	Yes	⅜.5 hr.	Proprietary	6.64"	**453A17**
	LED	250/50	High / Low	—	Aluminum	Black	Yes	1.5/3.5 hr.	Proprietary	3.87"	**453A18**
Inspection Flashlight, Safety Rated: Class I, Div. 1											
Streamlight	LED	11	High	—	Aluminum	Black	Yes	24 hr.	AAAA	14.00"	**3AU13**
	LED	11	High	—	Aluminum	Black	Yes	24 hr.	AAAA	25"	**5XA82**



No. 52EG70



No. 496L81



No. 22M701



No. 54YK94



No. 2VEW4



No. 3VY97



No. 5LE24

Disposable Standard Batteries

Dayton Energizer DURACELL RAYOVAC STREAMLIGHT

Alkaline batteries are the most-common choice for most everyday applications. Lithium batteries provide level, consistent performance in all devices, including high-power-draw devices. Designed to be leakproof and perform well in extreme temperatures, from -40° to 140°F.

Everyday—All-purpose batteries for everyday use in devices such as flashlights, remote controls, clocks, smoke detectors, and other equipment that is used intermittently or has a low power draw.

Premium—Higher-tier batteries provide dependable performance in low-drain devices such as flashlights, remote controls, clocks, smoke detectors, medical devices, multimeters, and similar intermittent-use equipment.

High Performance—Top-tier, high-capacity batteries can handle power demand spikes from high-drain devices such as digital cameras, thermal imagers, digital audio players and recorders, drones, video game controllers, GPS equipment, and keyless locks.

Battery Chemistry	Battery Series	Pkg. Qty.	Shelf Life	Brand	Item No.	
AA						
Everyday						
Alkaline	Dayton	4	10 yr	Dayton	**52EG75**	*
	Dayton	8	10 yr	Dayton	**52EG70**	*
	Dayton	24	10 yr	Dayton	**40KJ60**	*
	Industrial	24	10 yr	Energizer	**38W365**	
	Procell	24	7 yr	Duracell	**5LE23**	
Premium						
Alkaline	CopperTop	4	10 yr	Duracell	**3WA11**	
	CopperTop	24	10 yr	Duracell	**22A624**	
	CopperTop	36	10 yr	Duracell	**39G076**	
	Fusion	8	12 yr	Rayovac	**496L81**	*
	Fusion	30	12 yr	Rayovac	**496L82**	*
	Max	4	10 yr	Energizer	**22M699**	*
	Max	24	10 yr	Energizer	**22FX66**	*
	Max	36	10 yr	Energizer	**22FX67**	*
	Procell Intense	24	7 yr	Duracell	**55EC97**	
High Performance						
Lithium	Ultimate Lithium	2	20 yr	Energizer	**3KKJ1**	
	Ultimate Lithium	4	20 yr	Energizer	**1LEF7**	
	Ultimate Lithium	8	20 yr	Energizer	**2LBJ6**	
	Ultimate Lithium	24	20 yr	Energizer	**22M707**	
AAA						
Everyday						
Alkaline	Dayton	4	10 yr	Dayton	**52EG76**	*
	Dayton	8	10 yr	Dayton	**52EG71**	*
	Dayton	24	10 yr	Dayton	**40KJ57**	*
	Industrial	24	10 yr	Energizer	**38W366**	
	Procell	24	7 yr	Duracell	**5LE25**	
Premium						
Alkaline	CopperTop	4	10 yr	Duracell	**3WA12**	
	CopperTop	24	10 yr	Duracell	**22A625**	
	CopperTop	36	10 yr	Duracell	**458J20**	
	Fusion	8	12 yr	Rayovac	**496L83**	*
	Fusion	30	12 yr	Rayovac	**496L84**	*
	Max	4	10 yr	Energizer	**22M701**	*
	Max	16	10 yr	Energizer	**22M703**	*
High Performance						
Lithium	Ultimate Lithium	4	20 yr	Energizer	**1LEF8**	
	Ultimate Lithium	24	20 yr	Energizer	**54YK94**	
AAAA						
Premium						
Alkaline	CopperTop	2	10 yr	Duracell	**3VY95**	
	Max	2	10 yr	Energizer	**2LBJ7**	
	Stylus	6	5 yr	Streamlight	**2VEW4**	

Battery Chemistry	Battery Series	Pkg. Qty.	Shelf Life	Brand	Item No.	
C						
Everyday						
Alkaline	Dayton	4	10 yr	Dayton	**52EG73**	*
	Dayton	12	10 yr	Dayton	**40KJ56**	*
	Industrial	12	10 yr	Energizer	**38W367**	
	Procell	12	7 yr	Duracell	**5LE22**	
Premium						
Alkaline	CopperTop	4	10 yr	Duracell	**3VY97**	
	CopperTop	12	10 yr	Duracell	**21EK78**	
	Fusion	8	12 yr	Rayovac	**496L85**	*
	Max	4	10 yr	Energizer	**3KKH4**	*
	Max	8	10 yr	Energizer	**22M705**	*
	Procell Intense	12	7 yr	Duracell	**55EC96**	
D						
Everyday						
Alkaline	Dayton	4	10 yr	Dayton	**52EG72**	*
	Dayton	12	10 yr	Dayton	**40KJ59**	*
	Industrial	12	10 yr	Energizer	**38W368**	
	Procell	12	7 yr	Duracell	**5LE21**	
Premium						
Alkaline	CopperTop	4	10 yr	Duracell	**3VY96**	
	CopperTop	12	10 yr	Duracell	**21EK77**	
	Fusion	8	12 yr	Rayovac	**496L86**	*
	Max	4	10 yr	Energizer	**3KKH6**	*
	Max	8	10 yr	Energizer	**22M704**	*
	Procell Intense	12	7 yr	Duracell	**55EC95**	
9V						
Everyday						
Alkaline	Dayton	2	5 yr	Dayton	**52EG74**	
	Dayton	12	5 yr	Dayton	**40KJ58**	
	Industrial	12	5 yr	Energizer	**38W369**	
	Procell	12	5 yr	Duracell	**5LE24**	
Premium						
Alkaline	CopperTop	2	5 yr	Duracell	**3VY99**	
	CopperTop	12	5 yr	Duracell	**21EK79**	
	Fusion	2	5 yr	Rayovac	**496L87**	
	Max	2	5 yr	Energizer	**3KKH8**	*
	Max	4	5 yr	Energizer	**22M706**	*
High Performance						
Lithium	Ultimate Lithium	1	10 yr	Energizer	**49EV63**	

Made in the USA.

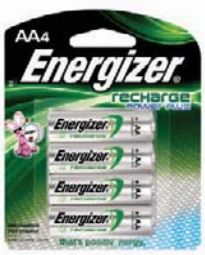
Energizer RAYOVAC DURACELL

Rechargeable Nickel Metal Hydride (NiMH) Batteries and Chargers

Standard Battery Size	Battery Capacity	Pkg. Qty.	Brand	Item No.
Rechargeable Battery				
AAA	700mAh	2	Energizer	**3KKJ9**
AAA	600mAh	4	Rayovac	**5HB64**
AAA	850mAh	4	Duracell	**21LN86**
AA	2300mAh	2	Energizer	**3KKJ5**
AA	1350mAh	4	Rayovac	**5HB63**
AA	2300mAh	4	Energizer	**3KKJ7**
AA	2400mAh	4	Duracell	**21LN85**
C	3000mAh	2	Rayovac	**3JA21**
C	2500mAh	2	Energizer	**3KKL4**
D	3000mAh	2	Rayovac	**3JA20**
D	2500mAh	2	Energizer	**3KKL6**
9V	200mAh	1	Rayovac	**5HB66**
9V	175mAh	1	Energizer	**3KKL2**



No. 5HB63



No. 3KKJ7



No. 21LN88



No. 20HL21

Power Req.	Battery Recharge Time*	Charges Up To	Includes	Brand	Mfr. Model	Item No.
Battery Chargers						
Energizer Rechargeable						
120VAC	3 hr.	(8) AAA or (8) AA or (1) 9V or (4) C or (4) D	AC Power Cord	Energizer	CHFC	**3KKL8**
Universal						
120VAC	8 hr.	(4) AAA or (4) AA or (4) C or (4) D or (1) 9V	AC Adapter and Cord	Rayovac	PS204 GENE	**20HL21**
Rechargeable Battery Kits						
120VAC	1 to 2½ hr.	(4) AAA or (4)AA	(2) AAA Batteries, (2) AA Batteries	Duracell	CEF27LNRFP	**21LN88**

When used with batteries by same manufacturer.

BRITE-STRIKE TACTICAL ILLUMINATION PRODUCTS INOVA® STREAMLIGHT PELICAN

18650 Rechargeable Batteries and Charger

18650 batteries are most-commonly used in rechargeable flashlights, cameras, LED clocks, and portable speakers and fans. They're also used to build battery packs and power banks, such as those found in laptops.

Standard Battery Size	Capacity	Precharged	Brand	Item No.	Pkg. Qty.
Rechargeable Battery					
18650	2600mAh	No	Brite-Strike	**36N853**	1
18650	2600mAh	No	Inova	**38V822**	1
18650	2600mAh	Yes	Streamlight	**457A46**	1
18650	2600mAh	Yes	Pelican	**457A70**	1



No. 36N853



No. 38V822



No. 457A46



No. 457A70



No. 457A57

Power Req.	Input Connection	Battery Recharge Time*	Number of Batteries Charged	Includes	Brand	Mfr. Model	Item No.
Battery Chargers							
120VAC	NEMA 1-15P Plug	4 to 6 hr.	(1) 18650	AC Adapter and Cord	Brite-Strike	18650-AC-Charger	**39WE24**
Rechargeable Battery Kits							
5VDC	Micro USB Socket	3½ to 6½ hr.	(2) 18650	(1) USB Cord, (2) 18650 Batteries	Streamlight	22010	**457A57**
120VAC	NEMA 1-15P Plug	3½ to 6½ hr.	(2) 18650	(1) AC Adapter and Cord, (2) 18650 Batteries	Streamlight	22011	**457A59**

When used with batteries by same manufacturer.


No. 52HA16



No. 46AC36



No. 55FA12



No. 420C73



No. 55FA14

Lynktec EXTECH INSTRUMENTS CAT MobileSpec Connect. Listen. Live.

Portable Power Charger

For charging cable, see page 361.

Capacity	Recharge Time	Input Connector	Output Connection Type	Item No.
Lynktec				
5300mAh	2.5 hr.	Micro USB	Female USB Type A	**52HA16**
8000mAh	4.0 hr.	Micro USB	Female USB Type A	**52HA17**
Extech				
2800mAh	3.0 hr.	Micro USB	Female USB Type A	**46AC36**
Cat				
10,000mAh	10.0 hr.	Micro USB	Female USB Type A	**420C73**
Mobilespec				
2600mAh	4.0 hr.	AC Prong	Female USB Type A	**55FA12**
5000mAh	4.5 hr.	Female USB Type A	Female Micro USB, USB Type C	**55FA13**
10,000mAh	5.5 hr.	Female USB Type A	Female Micro USB, USB Type C	**55FA14**



No. 1FYF1



No. 30YH47

EverLights RECYCLEPAK VEOLIA

Prepaid Recycling Kits

Kits come with everything you need to safely recycle dry cell batteries in compliance with all environmental regulations.

Volume Cap.	Weight Cap.	L	W	D	Brand	Item No.
Dry Cell Batteries						
Battery Recycling Kit						
1 gal.	25 lbs.	7"	6½"	7½"	RecyclePak	**12G311**
2 gal.	35 lbs.	7½"	9"	10½"	RecyclePak	**4NYA8**
5 gal.	33 lbs.	49"	8"	8"	Everlights	**48UL69**
55 gal.	600 lbs.	32"	24"	24"	Everlights	**30YH48**
3½ gal.	50 lbs.	10½"	10¼"	11½"	RecyclePak	**1FYF1**
	50 lbs.	10"	12"	12"	Everlights	**48VG30**
½ gal.	15 lbs.	6½"	5½"	6"	RecyclePak	**12G312**
Battery Collection Tube						
5 gal.	55 lbs.	36"	6"	6"	Everlights	**30YH47**

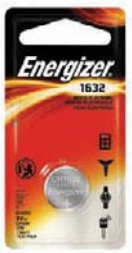
No. 5HXH5



No. 45EK18



No. 45EK26



No. 1ANB9



Energizer® GRAINGER APPROVED

DURACELL® DANTONA INDUSTRIES, INC. ULTRALAST

Button/Coin Cell Batteries

These batteries provide power for test instruments, calculators, timers, watches, keyless locks, and other small electronic devices.

Battery Size	Cross-Reference	Brand	Item No.	Pkg. Qty.
1.5VDC Alkaline				
N-E90	4001, 810, 910A, AM5, LR1, MN9100, UM-5	Energizer	**45EK08**	2
1.5VDC Silver Oxide				
76	03, 76, 303, 357, A, D357, EPX76, G13, GS13, J, MS76, S76, SB-B9, SG13, SP76, SR1154PW, SR44, SR44P, SR44SW, SR44W, V357	GA	**5U085**	1
		GA	**34F932**	12
303/357		Energizer	**45EJ86**	1
309/393	309, 309/393, 393/309, AG5, D309, V309, SR754W	Energizer	**45EJ98**	1
364	280-34, 364, AG1, D364, SB-AG, SR621SW, T, V364	Energizer	**45EJ89**	1
371	280-31, 371, AG6, D371, SB-AN, SR920SW, V371	Energizer	**45EJ90**	1
377	280-39, 376, 377, AG4, BA, D377, MA, SB-AW, SP377, SR626SW, SR626W, SR66, V377	GA	**5HXH4**	1
379	280-59, 379, D379, JA, SB-AC, SR521SW, V379	Energizer	**45EJ93**	1
384/392	280-13, 384, 392, AG3, D384, D392, K, LR41, MS312, SB-B1, SP384, SP392, SR41, SR41SW, SR41W, SR736PW, V392	GA	**5HXH5**	1
389/390	280-15, 389, 390, AG10, D389, D390, LR1130, LR1130H, LR1130W, LR54, M, SB-BU, SP389, SP390, SR1130, SR1130PW, SR1130SW, SR1130W, SR54, V389	GA	**5HXH7**	1
395	280-48, 395, AG7, D395, SB-AP, SR927SW, V395	Energizer	**45EJ99**	1
3VDC Lithium				
123	5018LC, CR123, CR123A, CR17345, DL123A, EL123AP, RL123A	Duracell	**1ANB7**	1
		Energizer	**45EK18**	2
		Duracell	**11W123**	12
1025	CR1025	GA	**54ZW43**	1
1216	CR1216, DL1216, ECR1216	GA	**5HXH0**	1
1220	CR1220	GA	**54ZU79**	1
1225	CR1225	GA	**54ZU73**	1
1616	280-209, CR1616, DL1616, ECR1616, KECR1616-1, YA	GA	**2CUR6**	1
1620	5009LC, CR1620, DL1620, EA, ECR1620, KECR1620-1, L08	GA	**5HXG7**	1
1632	CR1632	Energizer	**45EK26**	1
2016	280-206, CR2016, DL2016, E-CR2016, ECR2016, FA, KECR2016-1, SB-T11	GA	**2CUR7**	1
2025	280-205, CR2025, DL2025, E-CR2025, ECR2025, KECR2025-1, NA, SB-T14	GA	**2CUR8**	1
		Energizer	**45EK14**	1
2032	BR2032, CR2032, DL2032, E-CR2032, ECR2032, FA, KECR2032-1, SB-T51	GA	**4LW11**	1
		Duracell	**2HYJ1**	2
		Energizer	**45EJ83**	4
2325	CR2325	GA	**54ZU74**	1
2330	CR2330	GA	**54ZU75**	1
2354	CR2354	GA	**54ZU76**	1
2430	5011LC, CR2430, DL2439, ECR2430, L20	GA	**5HXG8**	1
2450	5029LC, CR2450, CR2450N, DL2450, ECR2450, KECR2450-1	GA	**5HXG6**	1
		Duracell	**2HYK2**	1
2477	CR2477	GA	**54ZU77**	1
3032	CR3032	GA	**54ZU78**	1
⅓ N	⅓ N, 2L76, 4LR44, 5008LC, 5018LC, CR1/3N, CR11108, DL1/3N, K58L	Duracell	**1ANB8**	1
CR2	5046LC, DLCR2, EL1CR2, RLCR2	GA	**2HPC7**	2
	1CR2, 5046LC, CR15H270, CR17355, DLCR2, EL1CR2, KCR2, RLCR2-2	Energizer	**45EK21**	2
6VDC Alkaline				
A544	476A, 4LR44, GP476, K28L, L1325, PX28A, V28PX	Energizer	**45EK05**	1
6VDC Lithium				
2CR5	2CR5M, 5032LC, DL245, EL2CR5, KL2CR5, RL2CR5	Energizer	**45EK23**	1
223	223, 223A, 5024LC, CRP2, DL223A, EL223AP, RL223A	GA	**5HXF9**	1
		Duracell	**1ANB9**	1
12VDC Alkaline				
A23	1181A, A23BP, DL21, DL23, MN-21B, MN21, V23GA	Energizer	**45EK03**	2
A27	27A, A27BP, G27A, GP27A, L828, MN27	Energizer	**45EK04**	1

No. 5LE26



No. 22M709



No. 5U061



DURACELL® Energizer® RAYOVAC®

Lantern Batteries

- Mercury-free formula

Battery Chemistry	Voltage	Terminal Type	L	W	H	Mfr. Model	Item No.
Duracell							
Alkaline	6VDC	Spring	4½"	2.68"	3.90"	MN908	**5LE26**
Energizer							
Alkaline	6VDC	Spring	—	2.62"	3.90"	EN529	**22M709**
Carbon Zinc	6VDC	Spring	—	2.56"	4.06"	1209	**54ZG68**
Rayovac							
Alkaline	7.5VDC	Screw	7¼"	7.50"	3.25"	803	**3AXH6**
	6VDC	Spring	4½"	2.62"	3.90"	806R	**4LV99**
Carbon Zinc	6VDC	Screw	5⅝"	5.29"	4.37"	918	**2V415**
	7.5VDC	Screw	6⅜"	7.20"	5.81"	903	**2V948**
	6VDC	Screw	4¼"	2.62"	3.92"	945R4	**5U061**
	6VDC	Spring	4½"	2.62"	3.90"	944C	**3JFU2**
	12VDC	Screw	5¼"	5.29"	4.37"	926D	**491G53**

Powerhouse Two® Supplier Diversity®

Security Door Batteries

Can be used as direct replacements for most electronic locks. Double-welded and double-insulated.

ALCOHOL HEAD-CLEANING CARDS

Can be used on any card-reading device used in hotel doors or credit/debit card processing.



No. 10A356

Voltage	Cross-Reference	L	W	Mfr. Model	Item No.
Door Lock Battery Pack					
Fits Intellikey Brand					
9	DL-18, 100178, PT00213	6.00"	1.20"	DL-40	**10A364**
Fits KABA ILCO Brand					
9	HTL-2, 884950, UNICAN, PMI7000	1.75"	1.93"	DL-16	**10A359**
Fits Saflok Brand					
6	HTL-1, HTL-17, S54490, 884955	2.25"	2.50"	DL-2	**10A356**
	HTL-3, HTL-5, 885008, S7400-12, ELS5, 50800LB	2.25"	2.20"	DL-5	**10A357**
	HTL-11, HTL-13, 884952, A28100, A28110, PMI235NT	2.25"	2.20"	DL-8	**10A358**
	HTL-6, S90040, Select 6	1.75"	3.29"	DL-19	**10A360**
Fits Timelox, VingCard Brand					
9	HTL-10, Timelox, DL-25	4.00"	2.30"	DL-30	**10A362**
Fits VingCard Brand					
9	12, PM106V	1.75"	1.67"	DL-26	**10A361**
	DL-19, DL-120, 100219, PT00212L	1.75"	1.60"	DL-31	**10A363**
Alcohol Cleaning Cards					
(50) Pre-Saturated Cards Per Box				CR80	**10A365**

RAYOVAC®

Hearing Aid Batteries

- Mercury-free formula

Battery Size	Color Code	Item No.	Pkg. Qty.
10	Yellow	**5AHC9**	16
13	Orange	**5AHD0**	16
312	Brown	**5AHD1**	16
675	Blue	**5AHD2**	6



No. 5AHC9

GA GRAINGER APPROVED

Sealed Lead Acid Batteries

- Terminal location: Top

Sealed lead acid (SLA) batteries are heavy, block-shaped batteries for powering large equipment and industrial systems. Also called storage or standby batteries, sealed lead acid batteries are slow draining when not in use so they're often used in uninterruptible power supplies (UPS) and other backup or reserve power applications. The terminal placement and overall dimensions of an SLA battery must match the location of mating connectors and the installation space within equipment to ensure a proper fit.

Voltage	Capacity	Terminal Connection	H	W	D	Housing Material	Item No.
AGM							
4VDC	4.5Ah	0.187" Faston	3.98"	1.85"	1.85"	ABS	**2UKL1**
	4.5Ah	0.250" Faston	4.12"	1.85"	1.85"	ABS	**5EFE7**
	9.0Ah	0.250" Faston	4.00"	1.73"	4.02"	ABS	**5EFE8**
	10Ah	0.187" Faston	4.00"	1.97"	4.02"	ABS	**5EFE9**
6VDC	1.2Ah	0.187" Faston	2.05"	3.82"	0.94"	ABS	**2UKH1**
	2.8Ah	0.187" Faston	3.94"	2.60"	1.30"	ABS	**2UKL2**
	3.3Ah	0.187" Faston	2.56"	1.34"	5.28"	ABS	**5EFF1**
	4.0Ah	0.187" Faston	3.98"	2.78"	1.88"	ABS	**2UKJ2**
	4.5Ah	0.187" Faston	3.98"	1.88"	2.78"	ABS	**5EFF2**
	5.0Ah	0.187" Faston	4.19"	1.85"	2.76"	ABS	**5EFG4**
	7.0Ah	0.187" Faston	3.70"	5.94"	1.34"	ABS	**2UKJ6**
	7.0Ah	0.187" (-)/0.250" (+) Faston	3.70"	1.34"	5.94"	ABS	**5EFF5**
	8.5Ah	0.187" Faston	4.65"	2.24"	3.90"	ABS	**2UKK3**
	8.5Ah	0.187" Faston	3.70"	5.91"	1.34"	Flame Retardant ABS	**2UKK4**
	9.0Ah	0.187" Faston	4.50"	2.20"	3.86"	ABS	**5EFF6**
	10Ah	0.187" Faston	3.70"	5.94"	1.94"	ABS	**2UKH2**
	12Ah	0.250" Faston	3.70"	1.97"	6.00"	ABS	**2UKK6**
	12Ah	0.250" Faston	3.66"	5.94"	1.97"	Flame Retardant ABS	**2UKK7**
	14Ah	0.187" (-)/0.250" (+) Faston	5.51"	2.82"	4.25"	ABS	**5EFF7**
	42Ah	0.250" Faston	6.43"	3.50"	6.43"	ABS	**54XH43**
	140Ah	0.315" Dia. Tab w/ Bolt Hole	9.72"	7.09"	10.24"	ABS	**54XH54**
8VDC	4.2Ah	0.187" Faston	3.87"	1.81"	3.78"	ABS	**5EFG5**
12VDC	1.2Ah	0.187" Faston	2.09"	3.82"	1.70"	ABS	**2UKG9**
	1.3Ah	0.187" Faston	2.09"	1.70"	3.82"	ABS	**54XH35**
	2.2Ah	0.187" Faston	2.40"	1.40"	7.01"	ABS	**5EFG6**
	2.3Ah	0.187" Faston	2.40"	1.40"	7.01"	ABS	**5EFF8**
	2.6Ah	0.187" Faston	2.40"	1.40"	7.01"	ABS	**5EFF9**
	2.9Ah	0.187" Faston	3.90"	2.20"	3.11"	ABS	**54XH36**
	3.3Ah	0.187" Faston	2.44"	5.28"	2.60"	Flame Retardant ABS	**2UKH8**
	3.3Ah	0.187" Faston	2.62"	2.60"	5.28"	ABS	**5EFG0**
	4.0Ah	0.187" Faston	4.00"	3.54"	2.76"	ABS	**2UKJ1**
	5.0Ah	0.187" Faston	3.98"	3.54"	2.76"	ABS	**2UKJ3**
	5.0Ah	0.250" Faston	4.00"	3.54"	2.76"	ABS	**2UKJ9**
	5.0Ah	0.250" Faston	3.98"	3.50"	2.72"	Flame Retardant ABS	**2UKK1**
	5.4Ah	0.187" Faston	3.98"	2.76"	3.54"	ABS	**5EFG7**
	7.0Ah	0.187" Faston	3.70"	5.94"	2.56"	ABS	**2UKJ4**
	7.0Ah	0.187" Faston	3.70"	5.94"	2.56"	Flame Retardant ABS	**2UKJ5**
	7.2Ah	0.187" Faston	3.78"	2.58"	5.94"	ABS	**54XH37**
	7.5Ah	0.187" Faston	3.78"	2.58"	5.94"	ABS	**5EFG8**
	7.5Ah	0.250" Faston	3.78"	2.58"	5.94"	ABS	**5EFH6**
	8.0Ah	0.250" Faston	3.70"	2.56"	5.94"	ABS	**54XH38**
	8.5Ah	0.187" Faston	3.78"	5.94"	2.56"	ABS	**2UKK2**
	8.5Ah	0.187" Faston	3.70"	5.94"	2.56"	Flame Retardant ABS	**2UKK5**
	9.0Ah	0.250" Faston	3.78"	2.56"	5.94"	ABS	**54XH39**
	10Ah	0.197" Dia. Tab w/ Bolt Hole	4.19"	2.56"	5.94"	ABS	**5EFG9**
	10Ah	0.250" Faston	4.37"	2.56"	6.00"	ABS	**5EFH0**
	12Ah	0.250" Faston	3.78"	6.00"	3.88"	ABS	**2UKH3**
	12Ah	0.250" Faston	3.70"	5.94"	3.90"	Flame Retardant ABS	**2UKH4**
	17Ah	0.197" Dia. Tab w/ Bolt Hole	6.54"	7.73"	2.99"	ABS	**2UKH5**
	17Ah	M6 Receptacle	6.60"	7.15"	3.06"	Flame Retardant ABS	**2UKH6**
	18Ah	0.217" Dia. Tab w/ Bolt Hole	6.60"	3.06"	7.15"	ABS	**54XH40**
	20Ah	0.197" Dia. Tab w/ Bolt Hole	6.54"	7.73"	2.99"	ABS	**2UKK8**
	20Ah	0.197" Dia. Tab w/ Bolt Hole	6.54"	7.73"	2.99"	Flame Retardant ABS	**2UKK9**
	24Ah	0.197" Dia. Tab w/ Bolt Hole	4.96"	6.61"	6.97"	ABS	**2UKL3**
	26Ah	0.217" Dia. Tab w/ Bolt Hole	5.04"	6.89"	6.57"	ABS	**54XH41**
	28Ah	10-32" Receptacle	7.19"	6⅝"	5"	Flame Retardant ABS	**2UKJ7**
	28Ah	0.197" Dia. Tab w/ Bolt Hole	7.12"	4.96"	6.61"	ABS	**5EFG1**
	33Ah	0.197" Dia. Tab w/ Bolt Hole	6.10"	7.72"	5.16"	ABS	**2UKL4**
	33Ah	M6 Receptacle	6.26"	5.16"	7.75"	ABS	**5EFH2**
	33Ah	0.217" Dia. Tab w/ Bolt Hole	6.26"	5.19"	7.75"	ABS	**54XH42**
	40Ah	10-32" Receptacle	6.89"	7.72"	6.54"	Flame Retardant ABS	**2UKJ8**
	40Ah	0.197" Dia. Tab w/ Bolt Hole	7.00"	6.54"	7.72"	ABS	**5EFG2**
	55Ah	0.197" Dia. Tab w/ Bolt Hole	8.27"	5.44"	9.06"	ABS	**2UKL5**
	55Ah	M6 Receptacle	9.00"	5.43"	9.02"	ABS	**5EFH4**
	75Ah	0.197" Dia. Tab w/ Bolt Hole	8.27"	6.61"	10.24"	ABS	**2UKL7**
	100Ah	0.315" Dia. Tab w/ Bolt Hole	8.46"	12.95"	6.77"	ABS	**2UKL8**
	800mAh	2 Pin Wire Leads	2.44"	3.78"	0.98"	ABS	**2UKG8**
GEL							
6VDC	200Ah	0.315" Dia. Tab w/ Bolt Hole	9.72"	7.13"	10.38"	ABS	**54XH44**
12VDC	33Ah	0.315" Dia. Tab w/ Bolt Hole	6.15"	5.20"	7.76"	ABS	**54XH49**
	54Ah	10-32" Receptacle	6.89"	6.63"	10.13"	ABS	**54XH46**
	75Ah	0.315" Dia. Tab w/ Bolt Hole	8.05"	6.79"	10.25"	ABS	**54XH45**
	100Ah	0.315" Dia. Tab w/ Bolt Hole	8.23"	6.81"	12.95"	ABS	**54XH53**
	140Ah	0.315" Dia. Tab w/ Bolt Hole	8.43"	8.11"	20.87"	ABS	**54XH47**
	140Ah	0.315" Dia. Tab w/ Bolt Hole	8.66"	10.55"	20.47"	ABS	**54XH48**



No. 2UKH1



No. 2UKJ7



No. 54XH42



No. 2UKG8



No. 54XH48

Battery Chargers and Maintainers

GA GRAINGER APPROVED

Sealed lead acid battery chargers and maintainers recharge or maintain the charge of SLA batteries so they're ready for use. These trickle chargers supply a slow, constant charge that typically takes hours to reach full capacity. Slow charging reduces the risk of damage to the battery while maximizing the charge level and life cycle. Charging a battery fully replenishes its charge before it's returned to service, while maintaining a battery keeps it at full charge during storage. Sealed lead acid battery chargers and maintainers should match the voltage of the battery being charged. These devices are commonly used by service and repair personnel. For more chargers see page 927.



No. 54XH26



No. 54XH34

Voltage	Operating Modes - Charger	Output Current - Charging	Output Current - Maintaining	Terminal Type	W	H	D	Item No.
Plug In								
For Use With Battery Type: AGM, Deep Cycle								
6VDC	Fast Charging, Topping Charge	500mA	25mA	Screw	2.20"	3.19"	1.81"	**54XH27**
12VDC	Fast Charging, Topping Charge	500mA	25mA	Screw	2.20"	3.19"	1.81"	**54XH26**
	Fast Charging, Topping Charge	1.0A	50mA	Screw	2.74"	3.77"	2.24"	**54XH28**
Desk Top								
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium								
12VDC	Fast Charging, Topping Charge, Fully Charged	1.0A	50mA	Wire Leads	2.69"	4.37"	1.34"	**54XH31**
	Fast Charging, Topping Charge, Fully Charged	2.0A	100mA	Wire Leads	2.69"	4.37"	1.34"	**54XH32**
	Fast Charging, Topping Charge, Fully Charged	4.0A	200mA	Wire Leads	2.69"	4.37"	1.34"	**54XH33**
	Fast Charging, Topping Charge, Fully Charged	20.0A	1.0A	Screw	8.10"	3.40"	11.20"	**54XH34**



No. 54XH31

Look for this icon for Fluke Connect® wireless-enabled tools. Learn more about Fluke Connect on page 610 or at grainger.com/fluke



Fluke 3000FC No. 31FN10



Fluke 289 No. 1EVC3



Fluke 27 II No. 4GUE2



Fluke 2811 EX No. 24K480



Fluke 77 IV No. 1TFV1



Fluke 87 V No. 4EB18



Fluke 116 No. 1GAJ1



Fluke 179 No. 6MR09



Fluke 233 No. 4GUE6

FLUKE

Digital Multimeters

Rugged, high-quality meters are designed for field professionals in a wide range of applications. All except No. 24K480 feature audible continuity.

FLUKE 3000FC SERIES WIRELESS MULTIMETER

True-RMS Wireless Multimeter with Fluke Connect® and ShareLive™ video call. Designed for professional technicians to troubleshoot and repair many problems in electrical and electronic systems. AC and DC voltage measurements to 1000V. AC and DC current with 0.01mA resolution. Continuity, resistance, diode test, capacitance, and frequency measurements. Min./max. recording. CAT III 1000V, CAT IV 600; IP54.

FLUKE 289 TRUE RMS INDUSTRIAL LOGGING MULTIMETER

Industrial logging multimeter designed to solve complex problems in electronic, plant, automation, power distribution, and electro-mechanical equipment. Log data and review it graphically on-screen, solve problems faster, and help minimize downtime. Communicate wirelessly with Fluke Connect and ir3000 FC wireless connector (sold separately).

FLUKE 28 II EX INTRINSICALLY SAFE TRUE RMS DIGITAL MULTIMETER

Completely sealed, IP67 case. 10-ft. drop-resistant. For testing and troubleshooting in petroleum, chemical, or pharmaceutical environments and other hazardous zones: Class 1 Div. 1 Zone and 2 (gas), Class 2 Div. 1, and Class III Zone 21 (dust) areas. The enclosure is IEC 6029 water and dustproof. CAT III 1000V pollution degree 2 and CAT IV 600V pollution degree 2. Intrinsically safe and regulatory compliance certifications include Aex ia IIC T4 and AEx iaD T130°C.

Fluke 116 HVAC Multimeters with Temperature and Microamps

Auto-V automatic AC/DC voltage detection helps eliminate guesswork and LoZ low-impedance input reduces chance of false readings due to ghost voltage. Built-in thermometer and microamp measurements quickly troubleshoot problems with HVAC equipment and flame sensors.

FLUKE 179 TRUE RMS DMMS

Ideal for working with HVAC or electrical equipment, or in small spaces. Feature a digital display with analog bar graph and built-in temperature measurements. All inputs are protected to IEN61010-1 CAT IV 600V/CAT III 1000V. CSA Certified and TuV Listed.

Instrument Counts	Basic DC Accuracy	Instrument Safety Rating	Max. AC/ DC Volts	Max. AC/ DC Amps	Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	Mfr. Model	STANDARD Item No.	NIST Item No.
6000	±0.09% of Reading +2 Digits	CAT IV 600V, CAT III 1000V	1000	10	50 megohm	1 Hz to 100 kHz	2 nF to 9999 uF	14° to 122°F	FLK-3000FC	31FN10	—
50,000	±0.025% of Reading +2 Digits		1000	10	500 megohm	0.01 Hz to 1 MHz	1 nF to 100 mF	-328° to 1994°F	Fluke-289	1EVC3	—
			1000	10	500 megohm	0.01 Hz to 1 MHz	1 nF to 100 mF	-328° to 1994°F	Fluke-287	—	1EVC6
6000	±0.10% of Reading + 1 Digit		1000	10	50 megohm	0.5 Hz to 200 kHz	1 nF to 9999 uF	—	Fluke-27 II	4GUE2	4GUE3
6000/19,999	±0.50% of Reading + 1 Digit		1000	10	50 megohm	0.5 Hz to 200 kHz	1 nF to 9999 uF	-328° to 1994°F	Fluke-28 II	4GUE4	4GUE5
20,000	±0.05% of Reading + 1 Digit	CAT IV 600V	1000	10	50 megohm	0.5 Hz to 200 kHz	10 nF to 9999 uF	-328° to 1994°F	FLUKE-28IIEX/ETL	24K480	—
6000	±0.30% of Reading + 1 Digit		1000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 9999 uF	—	Fluke-77 IV	1TFV1	1TFV2
	±0.10% of Reading + 1 Digit		1000	10	50 megohm	0.01 Hz to 200 kHz	10 pF to 9999 uF	—	Fluke-83-V	4EB17	—
6000/19,999	±0.05% of Reading + 1 Digit	CAT IV 600V, CAT III 1000V	1000	10	50 megohm	0.5 Hz to 200 kHz	10 pF to 9999 uF	-328° to 1994°F	Fluke-87-V	4EB18	4EB21
	±0.10% of Reading + 1 Digit		1000	10	50 megohm	0.01 Hz to 200 kHz	100 pF to 9999 uF	-238 to 1194°F (-200 to 1090°C)	Fluke-83-V	—	4EB20
6000	±0.50% of Reading +2 Digits	CAT IV 300V, CAT III 600V	600	10	60 kilohm	—	9999 uF	14° to 122°F	Fluke-113	2VGA1	2WTK1
		CAT III 600V	600	—	40 megohm	—	—	—	Fluke-114	1GAH8	—
			600	10	40 megohm	—	—	14° to 122°F	Fluke-114	—	2WTK3
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	—	Fluke-115	1GAH9	—
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	14° to 122°F	Fluke-115	—	2WTK5
			600	600uA	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	-40° to 752°F	Fluke-116	1GAJ1	2WTK7
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	14° to 122°F	Fluke-117	1GAJ2	2WTK9
	±0.15% of Reading + 2 Digits	CAT IV 600V, CAT III 1000V	1000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	14° to 122°F	Fluke-175	6MR05	6MR06
	±0.09% of Reading +2 Digits		1000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	14° to 122°F	Fluke-177	6MR07	6MR08
			1000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	-40° to 752°F	Fluke-179	6MR09	6MR10
	±0.25% of Reading + 2 Digits		1000	10	40 megohm	5 Hz to 50 kHz	1 nF to 9999 mF	-40° to 752°F	Fluke-233	4GUE6	4GUE7

Description	For Use With	Includes	Manufacturers Warranty	Mfr. Model	Item No.
Accessories					
PC Adapter	FC3000 Series Multimeter , FC Series Modules	Windows Software CD	1 yr.	FLK-PC3000FC	31FN18
FC Connector	Fluke Digital Multimeters	—	3 yr.	FLUKE-IR3000FC	32MX51
Meter Hanging Kit	Fluke Digital Multimeters, Other Fluke Meters	9" Hook and Loop Strap, Hook Hanger, Magnetic Hanger, General Purpose Hanger	1 yr.	TPAK	6GNP2

Look for this icon for Fluke Connect® wireless-enabled tools. Learn more about Fluke Connect on page 610 or at grainger.com/fluke


Fluke T3000FC K
No. 31FN20


Fluke 3000FC H
No. 31FN12


Fluke 289/FVF
No. 1EVC7


Fluke 287/FVF
No. 4CPU5


Fluke 88 V/A
No. 5BB61


Fluke 179/EDA2
No. 1LWZ6


Fluke 87-V/E2
No. 1PEK9


Fluke 62 Max+/T+P/1AC
No. 46N344


Fluke 116/323
No. 46N341

Digital Multimeters Kits

FLUKE.

Rugged, high-quality meters with advanced feature sets are designed for field professionals in a wide range of applications.

Description	Includes	Mfr. Model	Item No.
Fluke Connect® Kits			
Wireless Temperature Kit	Multimeter, Test Leads, Alligator Clips, Bead Probe, Magnet Strap, Quick Start Guide Only	FLK-T3000FC K	**31FN20**
AC and DC Voltage Module Kit	Multimeter, Test Leads, Alligator Clips, Batteries, Magnet Strap, Soft Case, Information Pack	FLK-V3003FC K	**31FN27**
AC Voltage Module Kit	Multimeter, Test Leads, Alligator Clips, Batteries, Magnet Strap, Soft Case, Information Pack	FLK-V3000FC K	**31FN22**
DC Voltage Module Kit	Multimeter, Test Leads, Alligator Clips, Batteries, Magnet Strap, Soft Case, Information Pack	FLK-V3001FC K	**31FN26**
Wireless General Maintenance Kit	Multimeter, 3X Test Leads, 3X Alligator Clips, 1X Current Module, 1X iFlex Coil, 1X AC Voltage Module, 1X DC Voltage Module, 1X PC Adapter, 1X Windows Software CD, Batteries, Soft Case, Information Pack	FLK-3000FC G	**31FN11**
Wireless HVAC System Kit	Multimeter, 1X Test Leads, 1X Alligator Clips, 1X Current Clamp, 1X Temperature Module, 1X PC Adapter, 1X Windows Software CD, Batteries, Soft Case, Information Pack	FLK-3000FC H	**31FN12**
Wireless Industrial Kit	Multimeter, 2X Test Leads, 2X Alligator Clips, 3X Current Module, 3X iFlex Coil, 1X AC Voltage Module, 1X PC Adapter, 1X Windows Software CD, Batteries, Soft Case, Information Pack	FLK-3000FC I	**31FN13**
Digital Multimeter Kit	3000FC Multimeter, Batteries, Test Leads, Alligator Clips, IR Adapter, PC Software, Magnet Hanger, Softcase, Thermocouple Adapter, Manual CD	287/FVF/IR3000/WWG	**45GG41**
Digital Multimeter Kit	3000FC Multimeter, Batteries, Test Leads, Alligator Clips, IR Adapter, PC Software, Magnet Hanger, Softcase, Thermocouple Adapter, Manual CD	289/FVF/IR3000/WWG	**45GG42**
Fluke Connect® DMM			
Digital Multimeter Kit	Software, Cable, Thermocouple, Test Lead Set, Alligator Clips, Magnetic Meter Hanger, Soft Carrying Case, Instructions	Fluke-289/FVF	**1EVC7**
Digital Multimeter Kit	Batteries, Test Leads, Alligator Clips, Temperature Probe, Interface Cable, Software, Instructions, Magnetic Hanging Kit	Fluke-287/FVF	**4CPU5**
Kits			
Automotive Multimeter Kit	Fluke 88V Automotive Digital Multimeter, No. 3MU86 Leads (TL224), No. 3MU87 Probes (TP220),No. 3MU85 Alligator Clips (AC285), No. 4XL48 Hanger (TPAK) No. 2DPH6 Temp. Probe (80BK-A),No. 5U843 RPM Pick-up (RPM80) 2 Probe Pins, Insulation Piercing Clip, No. 5U830 Case, (C800),No. 4YE79 Holster, 9V Battery and Instructions	Fluke 88 V/A	**5BB61**
Digital Multimeter Kit	Soft Case, Electronic Test Probes, Silicone Test Leads, Heavy Duty Hook Clips,Magnetic Hanging Kit, Integrated Temp. Probe	Fluke 179/EDA2 Kit	**1LWZ6**
Digital Multimeter Kit	Test Leads, Alligator Clips, Temp. Probe, Magnetic Hanging Kit, Yellow Meter Boot, Soft Case	Fluke-87-V/E2	**1PEK9**
Digital Multimeter Kit	Silicone Test Leads, Long Reach Alligator Clips, Test Probes, Magnetic Meter Hanging Kit, Temperature Probe, Lightweight Soft Accessory Case, 9V Battery (Installed), Getting Started Manual	Fluke-87-V/E2 NIST	**4EB22**
Infrared Thermometer Kit	Mfg. No. Fluke-62 MAX+, T+PRO, Fluke 1AC-II, Fluke C115 Soft Case, Battery, Instruction Sheet and Information Sheet	Fluke62Max+/T+P/1AC	**46N344**
Infrared Thermometer Kit	Mfg. No. Fluke-62 MAX+, Fluke-323, Fluke 1AC II, Fluke C115 Soft Case, TL175; Battery, Registration Card and Instruction Sheet	Fluke62Max+/323/1AC	**46N345**
Digital Multimeter, Clamp On Kit	Mfg. No. Fluke-116 Multimeter w/Batteries, TL175 Test Leads, TPAK Hanging Strap, 80pk-11 Pipe Clamp Thermocouple, 80BK Integrated Temperature Probe, 80AK-A Thermocouple Adapter, C115 Soft Carry Case, Fluke-323 True RMS Clamp Meter, Information Pack	FLUKE-116/323	**46N341**
Digital Multimeter, Clamp On Kit	Mfg. No. Fluke-117 Multimeter w/Batteries, TL175 Test Leads, TPAK Hanging Strap, C115 Soft Carry Case, Fluke-323 True RMS Clamp Meter, Information Pack	FLUKE-117/323	**46N342**
Digital Multimeter Kit	3000FC Multimeter, Batteries, Test Leads, Alligator Clips, 1AC-II Voltage Detector	3000FC/1AC-II/WWG	**45GG40**
Digital Multimeter Kit	3000FC Multimeter, (3) AA Batteries, Test Leads (TL224), Hook Clips, Sharp Test Probes, Soft Case, Magnet Hanger, CD	3000FC/EDA2/WWG	**45GG43**
Wireless Digital Multimeter Hanging Kit	3000FC Multimeter, (3) AA Batteries, Test Leads, Soft Case, Magnet Hanger, CD	3000FC/TPAK/WWG	**45GG44**
Digital Multimeter, Infrared Thermometer Kit	Mfg. No. Fluke-116 Multimeter w/Batteries, TL175 Test Leads,TPAK Hanging Strap, 80pk-11 Pipe Clamp Thermocouple, 80BK Integrated Temperature Probe, 80AK-A Thermocouple Adapter, C115 Soft Carry Case, 62Max Infrared Thermometer, Information Pack	FLUKE-116/62Max+	**46N340**
Digital Multimeter Kit	Digital Multimeter, Battery, Battery Charger and Adapter, Test Leads, Alligator Clips, Flexible Current Probe, Carrying Case, Hanging Strap	FLK279FC/IFLEX	**48RH42**
Digital Multimeter Kit	Battery, Test Leads Thermocouple, Alligator Clips and Fluke PRV240 Proving Unit Kit	FLUKE-87V/PRV	**40KJ11**
Digital Multimeter Kit	Battery, Test Leads and Fluke PRV240 Proving Unit Kit	FLUKE-117/PRV	**40KJ12**
Soft Carrying Case	Detachable, Extendable Shoulder Strap	C280	**2VFZ9**
Accessories			
Modular Test Lead Kit	Mfr. No. AC220 SureGrip(TM) Alligator Clip Set, Mfr. No. TP220 SureGrip(TM) Test Probe Set, Mfr. No. TL222 SureGrip(TM) Silicone Test Lead Set (Standard)	Fluke-TL220	**3EB21**



Digital Multimeters

EXTECH INSTRUMENTS · WESTWARD · AMPROBE · FLIR

Audible continuity lets your eyes focus on other test results. Each includes test leads and batteries. Select models have the following features. Low-impedance (LoZ) mode prevents false readings caused by ghost voltages. Low-pass filter (LP) reduces noise for accurate readings. Microamp (M) measurement is for HVAC flame rod applications. Noncontact voltage (NCV) verifies power is off to help assure safe testing. True RMS (TRMS) boosts accuracy when reading noisy, distorted, or nonsinusoidal waveforms.

Extech® Pocket—Easy-to-read meters slip into your pocket to keep with you at all times—great for most mechanics and technicians.

Extech Compact EX350 Series—Advanced features include LoZ and Low-Pass Filter.

Extech Compact EX360 Series—No. 40JK37 is designed for electrical applications, No. 40JK38 for HVAC applications. Both include LoZ.

Extech Full-Size EX400 Series—1" digits are easy to read.

Westward Kit—Conveniently combines digital multimeter No. 22XX19 with infrared thermometer No. 28AF72 and accessories for on-the-go maintenance and troubleshooting.

Amprobe® Pocket Digital Multimeters—No. 1WKN7: one-handed, pen-style meter has digital/analog displays. Nos. 1WKN3 and 1WKN5: ⅜"-thick meters display large digits with icons. Convenient attached test leads. No. 1WKN5 automatically selects resistance or AC or DC voltage.

Amprobe Full-Size Digital Multimeters—No. 1WKP5 performs component and logic tests. No. 12U584, for electrical contractors, checks voltage, current, continuity, resistance, startup capacitors, capacitor banks, frequency, and temperature. Nos. 34K450 and 12U583 offer HVAC-specific features.

FLIR® Industrial—Nos. 22UL80 and 22UL81 have integrated Bluetooth® connectivity compatible with the FLIR Tools mobile app.


No. 22XX21



No. 48FT92

Instrument Counts	Basic DC Accuracy	Instrument Safety Rating	Max. AC/ DC Volts	Max. AC/ DC Amps	*Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	Foot-notes	Mfr. Model	STANDARD Item No.	NIST Item No.
Extech, Pocket												
4000	±0.80% of Reading + 2 Digits	CAT IV 600V, CAT III 1000V	600	200mA	40	0.001 Hz to 10 kHz	1 pF to 200 uF	No Temp	AR, C	DM220	**1PTL1**	—
2000	±0.50% of Reading +2 Digits	CAT II 600V	600	10 DC	20	—	—	-4° to 1400°F	B, MR	MN35	**3LXX9** † ‡ #	—
4000	±0.80% of Reading +4 Digits		600	10	40	0.01 Hz to 5 MHz	1 pF to 100 uF	-4° to 1400°F	AR, C, T	MN36	**3LXY3** #	—
Extech, Compact EX200 Series												
2000	±0.50% of Reading +2 Digits	CAT III 600V	600	10	20	—	—	No Temp	AR, TRMS	EX205T	**21YC52**	—
Extech, Compact EX300 Series												
2000	±0.50% of Reading +2 Digits	CAT III 600V	600	10	2000	—	—	No Temp	B, MR, NCV	EX310	**1PTK4** ‡	**1PTL4** ‡
4000	±0.50% of Reading +2 Digits		600	10	40	0.001 Hz to 10 MHz	1 pF to 200 uF	-4° to 1382°F	AR, C, D, DC, NCV	EX330	**1PTK6** ‡ ‡‡ #	**1PTL6** ‡ ‡‡ #
Extech, Compact EX350 Series												
4000	±0.50% of Reading +2 Digits	CAT III 600V	600	10	40	0.001 Hz to 10 MHz	1 pF to 60 mF	No Temp	AR, LoZ, LP, M, TRMS	EX350	**40JK32** #	—
6000	±0.50% of Reading +2 Digits		600	10	60	0.001 Hz to 10 MHz	1 pF to 60 mF	-40° to 1832°F	AR, LoZ, LP, M, TRMS	EX355	**40JK33** #	—
Extech, Compact EX360 Series												
6000	±0.50% of Reading +2 Digits	CAT IV 600V	1000	10	40	0.01 Hz to 100 kHz	1 nF to 10 mF	No Temp	AR, G, LoZ	EX360	**40JK37** **	—
	±0.50% of Reading +2 Digits		1000	600uA		0.01 Hz to 100 kHz	1 nF to 10 mF	-40° to 742°F	AR, G, M, LoZ	EX363	**40JK38** # **	—
Extech, Full Size EX400 Series												
2000	±0.50% of Reading +2 Digits	CAT III 600V	750	20	20	—	—	-4° to 1382°F	T, MR	EX410	**1GUG7** † †† #	—
4000	±0.30% of Reading +2 Digits		750	10	40	0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX470A	**1GUH1** † †† #	—
	±0.30% of Reading +2 Digits		600	10		0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX430A	—	**1GUH7** † †† #
	±0.30% of Reading +2 Digits		750	20		0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX470A	—	**1GUH8** † †† #
Westward, Digital Multimeters												
6000	±0.50% of Reading +2 Digits	CAT III 600V	600	10	60	0.001 Hz to 10 MHz	9999 pF to 99,990 uF	-40° to 1832°F	C, D, DC, DT, TRMS, AR	22XX19	**22XX19** † ‡‡	—
4000	±0.50% of Reading +2 Digits		600	10	40	0.001 Hz to 10 MHz	9999 pF to 99,990 uF	-40° to 183°F	C, D, DC, DT, TRMS, AR	22XX20	**22XX20** †	—
2000	±0.50% of Reading +2 Digits		600	10	20	—	No	-40° to 183°F	D, TRMS, AR	22XX21	**22XX21** †	—
Westward, Kit												
	Digital Multimeter, Infrared Thermometer Kit								C, IR, D, T	22XX27	**22XX27** † ##	—
Amprobe, Pocket												
3400	±0.50% of Reading +2 Digits	CAT III 300V, CAT II 600V	600	10	34	—	—	32° to 104°F	G	DM73C	**1WKN7** ***	—
4000	±0.80% of Reading + 3 Digits		600	10	40	5 Hz to 1 MHZ	500 nF to 300 uF	—	AR	PM51A	**1WKN3**	—
6000	±0.80% of Reading + 3 Digits		600	2000uA	6	10 Hz to 30 kHz	100 nF to 2000 uF	32° to 104°F	LoZ, NCV, AR	PM55A	**1WKN5**	—
3999	±0.50% of Reading + 1 Digit	CAT III 300V, CAT II 600V, CAT I 1000V	750	10	40	1 Hz to 1 Mhz	4000 uF	-4° to 1832°F	—	34XR-A	**1WKP4**	—
Amprobe, Full-Size												
9999	±0.50% of Reading +2 Digits	CAT III 300V, CAT II 600V, CAT I 1000V	750	10	40	0.01 Hz to 10 MHz	400 uF	32° to 113°F	—	37XR-A	**1WKP5** ‡	—
4000	±0.80% of Reading +1 Digit	CAT III 600V, CAT II 1000V	600	10		10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 400, 4000 uF	-40° to 1832°F	T, NCV, IF	AM-530	**12U584** † ‡‡	—
6000	±0.30% of Reading +2 Digits	CAT IV 600V, CAT III 1000V	1000	10	60	10 Hz to 10MHz	—	—	C, M, T, NCV, IF, DT	AM-560	**34K450** † ##	—
	±0.50% of Reading +2 Digits		1000	10		10 Hz to 10MHz	—	—	T, NCV, IF	AM-570	**34K451** † ##	—
4000	±0.80% of Reading +1 Digit	CAT III 600V	600	10	40	10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 100 uF	—	NCV, IF	AM-510	**12U582**	—
	±0.80% of Reading +1 Digit	CAT III 600V, CAT II 1000V	600	10		10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 400, 4000 uF	-40° to 1832°F	C, M, T, NCV, IF, DT	AM-520	**12U583** † ‡‡	—
1999	±0.10% of Reading + 2 Digits	CAT IV 600V	1000	2	20	—	—	-4° to 1832°F	—	HD110C	**2ATA6**	—
9999	±0.10% of Reading + 5 Digits	CAT IV 1000V	1000	2	40	100 Hz to 10 MHz	40 nF to 400 uF	-4° to 2372°F	—	HD160C	**2ATA7**	—
FLIR, Industrial												
4000/40,000	±0.05% of Reading + 1 Digit	CAT IV 600V	1000	10	40	5 Hz to 100 kHz	40 nF to 40 mF	-328° to 2192°F	LoZ, T, AR, TRMS, DL	DM93	**22UL80**	**22UL81**
	±0.05% of Reading + 1 Digit		1000	10		5 Hz to 100 kHz	40 nF to 40 mF	-328° to 2192°F	LoZ, T, AR, TRMS, DL	DM92	**35KP89**	**48FT92**
6000	±0.09% of Reading +2 Digits		1000	3000A	50	0.01 Hz to 100 kHz	10 mF	-40° to 752°F (-40° to 400°C)	—	DM284-FLEX-KIT	**53CV91**	—

** Measure in megohms, except Nos. 1PTK4 and 1PTL4 are kilohms. † Includes carrying case. ‡ Includes holster. # Includes bead wire temperature probe. ** Includes holster with tilt stand and built-in magnet. †† Includes tilt stand and magnetic hanging strap. ‡‡ Includes temperature probe. ## Includes temperature adaptor and hook-and-loop strap. *** Includes spare probe tip.*

Footnotes: AR = autoranging, B = 1.5V/9V battery test, C = capacitance, D = data hold, DC = duty cycle, DL = datalogging up to 20,000 points, DT = diode test, G = analog bargraph, IF = integrated flashlight, IR = infrared temperature, LoZ = low impedance mode, LP = low-pass filter, M = microamp (μA), MR = manual ranging, NCV = noncontact voltage, T = Type K temperature probe.



No. 52MU67



No. 444M24

FLIR

DM284 Imaging Multimeter

- True RMS AC voltage and current
- High-contrast TFT LCD

Visually guides you to the exact location of an electrical problem with Infrared Guided Measurement (IGM) technology powered by a built-in 160 x 120 FLIR® thermal imager. Features LoZ (low-impedance mode) and VFD (low-pass filter) to help you solve even the most complicated electrical issues. Complete with test leads, test lead holder, alligator clips, and Type K Thermocouple.

Max. AC/DC Volts	Max. AC/DC Amps	Basic DC Accuracy	Max. Ohms	Capacitance Range	Instrument Frequency Counter Range	Data Logging	Battery Type	Mfr. Model	Item No.
1000	10	±0.09%	50 megohm	1 uF to 10 mF	0.01 Hz to 100 kHz	No	AAA Alkaline	DM284	**52MU67**
1000	10	±0.09%	50 megohm	1 pF to 40 mF	1 Hz to 100 kHz	Yes	AA Alkaline	DM285	**444M24**

EXTECH INSTRUMENTS

Waterproof Multimeters

Designed for heavy use in industrial applications. Measure AC/DC voltage and current, resistance, dual-sensitivity frequency (electrical and electronic), duty cycle, audible continuity, 2.8V diode test, and have data hold and auto-off functions. No. 1PTK1 is average responding. No. 1PTK3 also measures temperature. No. 2ELP6 has an analog bargraph. No. 2ELP7 also has 0.06% basic accuracy and a 40,000-count display. All models include test leads, magnetic hanging strap, carrying case, and 9V battery. All except No. 1PTK1 also have Type K temperature probe.



No. 1PTK3



No. 2ELP6

Instrument Counts	Basic DC Accuracy	Max AC/DC Volts	Max AC/DC Amps	Audible Continuity	Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	AC Response	Features*	Mfr. Model	STANDARD Item No.	NIST Item No.
4000	±1.20% of Reading + 2 Digits	1000	10	Yes	40 megohm	0.001 Hz to 10 MHz	10 pF to 100 uF	No Temp	Average	C, F, IP67	EX503	**1PTK1**	**1PTL7**
4000		1000	10	Yes	40 megohm			-4° to 1382°F	TRMS	C, F, IP67	EX505	**1PTK3**	**1PTL8**
6000	±0.09% of Reading +2 Digits	1000	20	Yes	40 megohm	0.001 Hz to 40 MHz	10 pF to 1000 uF	-50° to 1382°F	TRMS	C, F, G, IP67	EX520	**2ELP6**	**3EMK7**
40,000	±0.06% of Reading + 2 Digits	1000	20	Yes	40 megohm	0.001 Hz to 100 MHz	1 pF to 40 mF	-50° to 1382°F	TRMS	C, F, G, IP67	EX530	**2ELP7**	**3EMK8**

** C = capacitance, F = frequency, G = analog bargraph, IP67 = dustproof and waterproof to 1m.*

Simpson

Analog Multimeters

Analog display gives you a quick visual status check. Each includes test leads and batteries.

Simpson Instruments accuracy: VAC ±3% full scale, VDC ±2% full scale.

Rugged No. 4CWP2 is designed for railroad signaling and communications service, with an AC current transformer, current-limiting diode, and adjustable pointer stop. Padded case.

Note: Simpson Instruments optional clamp current probes Nos. 2T416 or 2T978 extend meters' AC capability up to 250A; sold separately on Grainger.com® or call 1-800-GRAINGER (472-4643).



No. 4CWP2



No. 1TC61

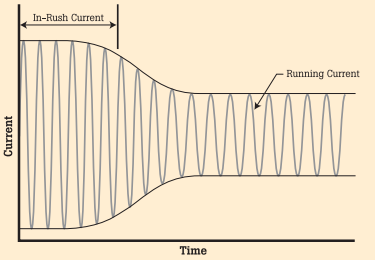
Max. AC/ DC Volts	Max. AC/ DC Amps	Audible Continuity	Max. Ohms	dB	Mirrored Scale	FUSED OVERLOAD PROTECTION Mfr. Model	FUSED OVERLOAD PROTECTION Item No.	PUSH-BUTTON OVERLOAD PROTECTION Mfr. Model	PUSH-BUTTON OVERLOAD PROTECTION Item No.
600	30	No	6 kilohm	-10 to 56	Yes	12113	**4CWP2**	—	—
1000	10	Yes	20 megohm	-20 to +50	Yes	260-8XI	**1TC61**	260-8XPI	**1TC62**
	10	No	20 megohm	-20 to +50	Yes	260-8	**1A587**	—	—
	10	Yes	20 megohm	-20 to +50	Yes	—	—	260-8P	**1T779**
	10	Yes	20 megohm	-20 to +50	Yes	—	—	260-8PRT	**1T848**
Accessories									
Test Probe Leads, For Use With 260-7, 260-8 Series, Std.								z00043	**1T608**
Yellow Nylon Carrying Case- For Use With Mfr. No. 260 Series								00832	**1TC63**
Test Probe Leads, For Use With Mfr. No. 260-8XI and 260-6LXPM								00125	**23MM52**

Look for this icon for Fluke Connect® wireless-enabled tools. Learn more about Fluke Connect on page 610 or at grainger.com/fluke

True RMS Current vs. Inrush Current

TRUE RMS
- "RMS" (root mean square) comes from a formula that calculates the effective value (or heating value) of any AC wave shape
- Electrical components such as fuses, bus bars, conductors, and circuit breakers are rated in RMS current because their main limitation has to do with heat dissipation
- When checking an electrical circuit for overloading, the RMS current is measured and compared to the rated value for the component in question
- For circuits with AC and DC components or distorted signals, a meter with an AC+DC function is used

INRUSH
- Fluke® clamps' proprietary inrush (starting) measurement takes a large number of samples at the beginning of the starting current, then digitally filters and processes the samples to calculate the actual starting current
- Measure starting current in the same manner as an overcurrent protection device
- More accurate than slower min./max. functions that can miss the event partially or completely



FLUKE.

Clamp Meters

Each includes a soft carrying case.

GENERAL PURPOSE

Fluke 323/324/325 True RMS AC
- Continuity for quick checking of shorts
- Capacitance and temperature (324 and 325)
- AC/DC current measurement (325)

Small size fits easily into tight places. CAT IV 300V, CAT III 600V.



Fluke 324
No. 20E890

HEAVY INDUSTRIAL

Fluke 353/355 True RMS AC/DC 2000A
- AC+DC true RMS ensures accurate measurement of AC+DC and distorted signals
- Selectable low-pass filter to smooth out noisy loads and stabilize readings

Measure frequency up to 1 kHz for optimum troubleshooting. Quickly analyze readings using the min., max., and avg. functions. CAT IV 600V.



Fluke 355
No. 2FTY9

HVAC/R

Fluke 902 FC
- Flue gas temperatures with Type K thermocouple
- Flame rod testing with µA current measurement range
- Capacitance measurement

CAT IV 300V.



Fluke 902 FC
No. 48RH39

DETACHABLE JAW

Fluke 365 True RMS AC/DC
- Built-in flashlight/torch
- Designed for use while wearing personal protective equipment
- 200A AC/DC

Detachable jaw eases wire access and viewing the display. Compact design fits in your hand. CAT III 600V, CAT IV 300V.



Fluke 365
No. 6FXH8

FLUKE CONNECT® CLAMP METER
- True RMS
- Measures up to 400A AC
- Inrush function

Fully functional meter wirelessly relays measurements to other Fluke Connect-enabled master units. Designed to be used as a standalone or as part of a system. Features logging function for recording and saving up to 65,000 readings.



Fluke A3000FC
No. 31FN14

Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	AC Response	Max. Ohms	Inrush	Data Hold	Jaw Cap.	Manufacturers Warranty	Mfr. Model	Item No.
General Purpose											
400	—	600	600	TRMS	4000	—	Yes	1.1" (28mm)	2 yr.	Fluke-323	**20E890**
400	—	600	600	TRMS	4000	—	Yes	1.1" (28mm)	2 yr.	Fluke-324	**20E891**
400	400	600	600	TRMS	40,000	—	Yes	1.1" (28mm)	2 yr.	Fluke-325	**20E892**
Heavy Industrial											
1400	400	1000	1000	TRMS	400	Yes	Yes	2.9" (74mm)	3 yr.	Fluke-353	**2FTY8**
1400	400	1000	1000	TRMS	400	Yes	Yes	2.9" (74mm)	3 yr.	Fluke-355	**2FTY9**
HVAC/R											
600	200uA	600	600	TRMS	60,000	—	Yes	1.6" (41mm)	3 yr.	Fluke-902 FC	**48RH39**
Detachable Jaw											
200	200	600	600	TRMS	6000	—	Yes	0.7" (17mm)	3 yr.	Fluke-365	**6FXH8**
Fluke Connect											
400	—	—	—	TRMS	—	Yes	No	1.3" (33mm)	3 yr.	FLK-A3000FC	**31FN14**
Earth Resistance Tester											
Earth Ground Clamp, Hard Case, Batteries, Safety Information Guide, Quick Reference Guide								1.5" (40mm)	1 yr.	Fluke-1630-2 FC	**444A57**
Fluke Connect Clamp Meter Kit											
Clamp Meter, Test Leads, Alligator Clips, AC Clamp, Batteries, Soft Case, Information Pack										FLK-A3000FC K	**31FN15**



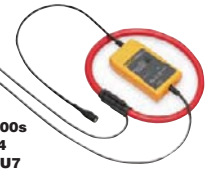
Fluke i30
No. 2EWU9



Fluke i400
No. 4YE82



Fluke i410
No. 4KF12



Fluke i6000s Flex-24
No. 2EWU7

FLUKE.

Clamp and Flexible Current Probes

Extend the current-measuring capability of digital multimeters from 10A to 6000A.

Amps AC	Amps DC	Jaw Cap.	Output	Accuracy	AC Frequency Response	Safety Rating	Mfr. Model	Item No.
Clamp-On Probes								
30mA to 20A	30mA to 30A	0.7" (19mm)	100mV/A	±1 % of Reading ±2 mA	20 kHz	CAT III 300 V	Fluke-i30	**2EWU9**
0.5 to 200	—	0.8" (20mm)	1mA/A	±1% + 0.5A (48 to 65 Hz)	40 Hz to 10 kHz	CAT III 600 V	Fluke-i200	**4XL41**
1 to 200	—	0.8" (20mm)	10, 100mV/A	±1.5% of Reading + 0.5A	40 Hz to 40 kHz	CAT III 600 V	Fluke-i200S	**4XL42**
300	450A	0.7" (19mm)	10, 1mV/A	±1% of Reading	20 kHz	CAT III 300 V	Fluke-i310S	**2EWU4**
1 to 400	—	1.2" (32mm)	1mA/A	2% + 0.06 A, (45 to 400 Hz)	5 Hz to 20 kHz	CAT IV 600 V, CAT III 1000 V	Fluke-i400	**4YE82**
0.5 to 400A	—	1.2" (32mm)	10, 1mV/A	±2% +0.04A (45 to 400 Hz)	5 Hz to 10 kHz	CAT IV 600 V, CAT III 1000 V	Fluke-i400s	**4YE83**
1 to 400	1 to 400A	1.1" (30mm)	1mV/A	±3.5% of Reading + 0.5A	3 kHz	CAT III 600 V	Fluke-i410	**4KF12**
1 to 400	1 to 400A	1.1" (30mm)	1mV/A	±3.5% of Reading + 0.5A	3 kHz	CAT III 600 V	Fluke-i410-Kit	**4CB81**
800	—	2.1" (54mm)	1mA/A	±1% of Reading	30 Hz to 10 kHz	CAT III 600 V	Fluke-i800	**2HZC5**
1 to 600	1 to 1000A	1.1" (30mm)	1mV/A	±2% of Reading + 0.5A	10 kHz	CAT III 600 V	Fluke-i1010	**4KF11**
10/100/1000A	—	2.1" (54mm)	1, 10, 100mV/A	±1% of Reading +1A	5 Hz to 100 kHz	CAT III 600 V	Fluke-i1000S	**6MR11**
Flexible Probes								
20/200/2000A	—	24.0" (610mm)	1, 10, 100mV/A	±1% of Range (45 to 65 Hz)	10 Hz to 20 kHz	CAT III 600 V	Fluke-i2000 FLEX	**1DGX7**
6 to 6000A	—	6.5" (165mm)	50, 5, 0.5mV/A	±1% of Range	10 Hz to 50 kHz	CAT III 600 V	Fluke-i6000S FLEX-24	**2EWU7**
6 to 6000A	—	10.5" (265mm)	50, 5, 0.5mV/A	±1% of Range	10 Hz to 50 kHz	CAT III 600 V	Fluke-i6000S FLEX-36	**2EWU8**



The loop opens to thread the probe into a tight space; close it again to measure.



Wireless display can be carried up to 30 ft. from the point of measurement.



Fluke 381
No. 6FXH3



Fluke Connect Flex Clamp Meter Kit
No. 31FN17

Clamp Meters and Flexible Current Probes

FLUKE

Wires in tight, compact spaces. Panels out of reach. Feature extra large conductors. Designed for noise-free, reliable readings. Built on success, these clamp meters are known as workhorse clamp meters. With advanced performance, the clamp meter line is simple to use and gimmick-free.

FLUKE-373 TRUE RMS CLAMP METER

Offers advanced troubleshooting performance that is perfect for a number of AC-only current measurements. The state-of-the-art signal processing technology cuts through electrical noise to help you get stable, dependable measurements that are easy to read on the large, backit LCD. Automatically sets the correct range, so you won't have to change positions while taking a measurement. Includes clamp meter, test leads, and soft case. CAT IV 300V; CAT III 600V.



Fluke 373
No. 6FXH7

REMOTE DISPLAY CLAMP METER

Fluke 381 Remote Display True RMS AC/DC with iFlex™

- Designed to increase productivity and save troubleshooting time
- Frequency measurement to 500 Hz with jaw or iFlex
- Min./max./avg. and inrush recording captures variations automatically
- Radio transmitter Auto-Off when display is connected to meter

The removable magnetic, wireless display increases measurement flexibility. It can be conveniently mounted where it is easily seen, and carried up to 30 ft. from the point of measurement without interfering with measurement accuracy. Integrated low-pass filter and state-of-the-art signal processing allow stable readings in noisy electrical environments. CAT IV 600V, CAT III 1000V.

FLUKE CONNECT FLEX CLAMP METER KIT

Provides all the essentials for convenient test and measurement troubleshooting.

IFLEX™ FLEXIBLE CURRENT PROBES

Fluke i2500-18 and i2500-10

- 2500A AC current measurement
- Small cross-section for improved wire access
- Provide inrush and frequency on select Fluke meters, including those on this page



Fluke I2500
No. 6FXJ0

Expand a clamp meter's measurement range to 2500A AC. The probes also provide increased display flexibility, ability to measure awkwardly sized conductors, and improved wire access. Connect directly to the meter, displaying current measurements without error-prone scaling factors. 6-ft. cord allows separation between the measurement location and the clamp meter, making it easier to view the display. 0.3" coil dia. allows measurement in tight spaces. CAT IV 600V, CAT III 1000V.

Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Inrush	Data Hold	STANDARD Mfr. Model	STANDARD Item No.
Electrical								
600	—	600	—	6000	—	Yes	Fluke-373	**6FXH7**
Remote Display								
2500	999.9	1000	1000	60,000	Yes	Yes	Fluke-381	**6FXH3**
Fluke Connect Clamp Meter Kit								
Clamp Meter, Test Leads, Alligator Clips, Current Module, iFlex Coil, Batteries, Soft Case, Information Pack							FLK-A3001FC K	**31FN17**

Description	Mfr. Warranty Length	Mfr. Model	Item No.
2500 Amp AC Flexible Current Probes			
10" Loop, For Use With Fluke Mfr. No. 381, 376, 375, 374	3 yr.	Fluke-I2500-10	**6FXJ0**
18" Loop, For Use With Fluke Mfr. No. 381, 376, 375, 374	3 yr.	Fluke-I2500-18	**6FXH9**

Fluke Connect® Wireless Current Modules

FLUKE

Designed to take 3-phase measurements in ⅓ of the time. Record over time to monitor circuit load changes for an hour, a shift, or a week. Use Fluke Connect® wireless to collect and share logged data from remote modules. Perform analysis with your PC and share the results using Fluke Cloud™ storage and ShareLive™ video call. Video data or graphs to get input from team members.

FLUKE A3000 FC WIRELESS AC CURRENT CLAMP MODULE

True RMS current clamp meter. Fluke Connect enabled.

FLUKE A3001 FC WIRELESS IFLEX® AC CURRENT MODULE

True RMS flexible current meter. Measure around awkward-sized conductors or get into tight spaces. Fluke Connect enabled.

FLUKE 370 FC SERIES CLAMP METERS

True RMS meters offer advanced troubleshooting performance. The iFlex® flexible current probe allows easy connections to wires in tight spaces. In addition, all three clamps are now part of the Fluke Connect® family of wireless test tools. With a 370 FC Series Clamp Meter and Fluke Connect Measurements app, you can log and trend measurements to pinpoint intermittent faults. Transmit results wirelessly via Fluke Connect Measurement app. Create and send reports right from the field. Capture measurements outside the arc flash zone with Bluetooth® connectivity to your Apple® or Android™ devices.



Fluke 370
No. 45MU54

Fluke
A3000FC
No. 31FN14



No. 31FN16

Max. AC Amps	AC Current Accuracy	Jaw Cap.	Max. Conductor Size	Operating Temp.	Data Hold	Mfr. Model	Item No.
600	±2.0% + 5 Digits	1.6" (41mm)	750MCM	50° to 122°F	Yes	FLUKE-374 FC	**45MU56**
600	±2.0% + 5 Digits	1.6" (41mm)	750MCM	50° to 122°F	Yes	FLUKE-375 FC	**45MU55**
1000	±2.0% + 5 Digits	1.6" (41mm)	750MCM	50° to 122°F	Yes	FLUKE-376 FC	**45MU54**
400	2.0% + 5 Digits	1.3" (33mm)	1.18" (30.0mm)	50° to 122°F	No	FLK-A3000FC	**31FN14**
2500	3.0% + 5 Digits	10.0" (254mm)	10"	50° to 122°F	No	FLK-A3001FC	**31FN16**



No. 45JW90

Imaging 600A True RMS AC/DC Clamp Meters with IGM™

FLIR

- Frequency counter: 60 kHz
- Smart diode with disable
- Inrush current
- LoZ
- Variable-frequency drive (VFD) low-pass filter
- 60 Hz frequency calibration

2-in-1 testers have a built-in thermal imager that uses Infrared Guided Measurement™ (IGM) and a laser pointer with crosshair to pinpoint potential electrical problems and capture center-point temperature readings. The narrow jaw and built-in worklights help you enter tight or dark locations. Both models include CAT IV silicon test leads and AAA batteries. CAT IV 600V. No. 444M26 can also datalog and store 10 sets of 40,000 scalar measurements and 100 images. Bluetooth® connectivity for easy transfer to a PC and direct connection to FLIR Tools™.

Jaw Cap.	Max. AC/DC Amps	Max. AC/DC Volts	Max. Ohms	Capacitance	Temp. Range	Battery Type	Std.	Mfr. Model	Item No.
Clamp Meter									
1.4" (36mm)	600	1000	6000	1000uF	-4° to 302°F	AAA	CUL, FCC, CE	CM174	**45JW90**
Wireless Clamp Meter Module									
1.3" (33mm)	600	1000	6000	1000uF	14° to 302°F	AA	cULus, CE	CM275	**444M26**



No. 22UL78

Clamp Meters with IR Thermometer

FLIR

Commercial-grade electrician's 1000A meters also provide noncontact infrared temperature measurements on vents, equipment, and motors. Measure voltage, resistance, frequency, AC/DC current, and capacitance, with min./max./avg., rel., data hold, and peak hold. LCD shows results, or stream them to a compatible mobile device with the free FLIR Tools™ Mobile App. Readings also can be transmitted directly to a FLIR® METERLiNK™-enabled thermal imaging camera (see page 607). CAT IV 600V, CAT III 1000V safety rating. Each includes test leads and battery. No. 22UL79 includes calibration certificate.

Max AC/DC Amps	Max AC/DC Volts	Resistance (ohms)	Temp. Range	Wireless Range	Mfr. Model	STANDARD Item No.	NIST Item No.
1000	1000	40M	IR -20 to 518°F, Type K -4 to 1400°F	100 ft.	CM78	**22UL78**	**22UL79**



No. 1GUH4



No. 5LUT4



No. 2HPF7



No. 40GT06



No. 40GT09

Clamp Meters

EXTECH INSTRUMENTS FLIR

1000A SERIES INDUSTRIAL

These tough meters have a built-in noncontact infrared thermometer and allow you to locate hot spots and overheating motors. All models have peak hold to capture inrush current and transients. Include Type K bead wire probe, belt holster, 9V battery, and soft carrying case. Nos. 4GGD9 and 4GGE1 also include professional test lead kit.

HIGH CURRENT—1500A AND 2000A

High-capacity models support a variety of measuring functions and feature true RMS sensing. Each includes test leads and 9V battery. Nos. 5LUT4 and 5LUT5 also include case.

HIGH CURRENT—3000A FLEX CLAMPS AND ADAPTERS

True RMS 3000A AC flex clamps are designed with a 0.3" (7.5mm) dia. coil to take measurements in tight or awkward spaces. Inrush current (100ms) for equipment startup spikes. Bright LED work lights provide easy navigation. Datalog up to 20,000 points for trend analysis. Bluetooth® communication for remote viewing and data transfer to mobile devices via FLIR Tools™ Mobile App.

Nos. 40GT09 and 40GT08 flex clamp adapters plug directly in any meter with standard banana plug inputs and 1 mV range to convert it into a 3000A clamp meter.

AC Response	Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Counts	Features*	Safety Rating	Mfr. Model	STANDARD Includes	STANDARD Item No.	NIST Includes	NIST Item No.
Extech													
1000A Series Industrial													
TRMS	1000	—	600	600	40 megohm	4000	T, IR, F, C, P	CAT III 600V	EX820	Soft Carrying Case, Test Leads, Instructions	**1GUH3**	—	—
TRMS	1000	1000	1000	1000	40 megohm	4000	T, IR, F, C, P	CAT III 600V	EX830	Soft Carrying Case, Test Leads, Battery, Type K Temperature Probe, Instructions	**1GUH4**	Soft Carrying Case, Test Leads, Instructions	**1GUK2**
TRMS	1000	1000	1000	1000	40 megohm	4000	T, IR, F, C, P	CAT IV 600V	EX840	Test Leads, Belt Holster, Professional Test Lead Kit, Instructions	**4GGD9**	Test Leads, Belt Holster, Professional Test Lead Kit, Instructions	**4GGE1**
High Current 1500A and 2000A													
Average	200	200	—	—	—	2000	—	CAT III 300V	MA120	Batteries, Instructions	**2HPG3**	—	—
TRMS	1500	1500	750	1000	40 megohm	4000/40,000	T, F, C, P, NCV	CAT IV 600V	MA1500	Soft Carrying Case, Test Leads, Battery, Instructions	**5LUT4**	Soft Carrying Case, Test Leads, Battery, Instructions	**5LUT5**
TRMS	2000	400	1000	1000	40 megohm	5000	F, C	CAT IV 600V	380926	Built In Stand, Test Leads, Battery, Instructions	**2HPF7**	Instructions, Test Leads	**6RGJ8**
FLIR													
High Current 3000A Flex Clamps and Adapters													
TRMS	3000	—	—	—	—	3000	—	CAT IV 600V	CM57	(2) AAA Batteries, 18" Probe	**40GT06**	(2) AAA Batteries	**49VT99**
TRMS	3000	—	—	—	—	3000	—	CAT IV 600V	CM55	(2) AAA Batteries, 10" Probe	**40GT07**	(2) AAA Batteries	**49VT98**
TRMS	3000	—	—	—	—	—	—	Cat IV 600	TA72	(2) AAA Batteries, 10" Probe	**40GT09**	—	—
TRMS	3000	—	—	—	—	—	—	Cat IV 600	TA74	(2) AAA Batteries, 18" Probe	**40GT08**	—	—

** C = capacitance, F = frequency, IR = infrared temp., NCV = noncontact voltage, P = peak hold, T = Type K temp.*

Clamp Meters

Maintenance and troubleshooting testers for electrical, industrial, and HVAC applications include battery(ies). Select models have the following features. True RMS (TRMS) provides accurate readings of noisy, distorted or nonsinusodial waveforms. Autosensing (AS) technology enables the meter to recognize the input and automatically switch to the correct mode of operation. Low-pass filter (LPF) attenuates high frequencies to reduce noise for accurate measurement of variable frequency drive signals. DC microamp (M) measurement is for flame rod applications.

MINI CLAMP METERS

Compact size allows measurements in tight locations. Include test leads and case.

HIGH RESOLUTION MINI SERIES

Devices feature DC autozero and accuracy at low currents, and are designed to operate in tight spaces. No. 2HPF6 provides noncontact frequency measurement to 10 kHz through the clamp jaws. Each includes case; all except No. 2HPF6 include test lead.

POCKET-SIZE WITH AUTOSENSE

5.8" x 2.4" x 1.2" testers have a compact 0.8" jaw that accommodates conductors up to 300MCM and allows measurement in tight locations.

EXTECH INSTRUMENTS

OPEN JAW WITH AUTOSENSE

Feature an open-jaw design for quick measurements in tight locations. No. 40JL43 has input impedance that automatically decreases with the input voltage to provide low-impedance testing of ghost voltages.

COMPACT CLAMP METERS

Pocket-size meters loaded with multimeter features and built-in noncontact voltage (NCV) detectors to meet many applications. Jaws fit conductors up to 500MCM.

MULTIFUNCTION HVAC

5-in-1 meters feature dual Type K thermocouple inputs for superheat differential measurement. Nos. 2HPF8 and 6RGL7 add IR thermocouple with laser pointer and 2 temp. probes. Each includes test leads and case.

600 SERIES ELECTRICAL

Low impedance (LoZ) mode helps eliminate false readings caused by ghost voltages in these meters with true RMS AC or AC/DC. Include test leads, No. 40JK35 also includes bead wire probe.



No. 40JL46



No. 4FB73



No. 40ZJ86



No. 40JL43



No. 453A46


No. 2HPG1

AC Response	Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Counts	Features*	Safety Rating	Mfr. Model	STANDARD Item No.	NIST Item No.
Mini Clamp Meters											
TRMS	60	—	600	600	60 megohm	6000	F, C, LPF, NCV	CAT III 300V	MA61	**40JL46**	—
TRMS	60	60	600	600	60 megohm	6000	F, C, LPF, NCV	CAT III 300V	MA63	**40JL47**	—
High Resolution Mini Series											
Average	30	30	400	400	—	4000	G	CAT III 300V	380942	**8EUV3**	—
Average	80	80	600	600	40 megohm	4000	F	CAT III 600V	380950	**8G782**	—
Average	200	200	400	400	400 megohm	4000	F, G	CAT III 300V	380941	**4FB73**	**6RGK0**
TRMS	400	400	—	—	—	4000	F, G	CAT III 300V	380947	**2HPF6**	—
Pocket Size with Autosense											
TRMS	300	—	—	—	—	6000	LPF, NCV, SD	CAT III 600V	MA140	**40ZJ86**	—
Open Jaw with Autosense											
TRMS	200	—	1000	1000	10,000	9999	AS, NCV	CAT IV 600V	MA260	**40JL43**	—
Compact Clamp Meter											
TRMS	400	—	600	600	40 megohm	4000	—	CAT III-600V	MA443	**404K05**	**404K06**
Average	400	No Range	600	600	40 megohm	4000	—	CAT III 600V	MA440	**453A46**	**453A47**
Multifunction HVAC											
TRMS	400	400	600	600	40 megohm	4000	T, F, C, IR, NCV, M, P	CAT III 600V	EX623	**2HPF8**	**6RGL7**
TRMS	400	400	600	600	40 megohm	4000	T, F, C, NCV, M, P	CAT III 600V	EX613	**2HPG1**	**6RGL5**
600 Series Electrical											
TRMS	600	—	750	1000	60 megohm	6000	C, F, LoZ, LPF, M, NCV	CAT III 600V	EX650	**40JK34**	—
TRMS	600	600	750	1000	60 megohm	6000	C, F, LoZ, LPF, M, NCV, T	CAT III 600V	EX655	**40JK35**	—

**** AS = autosense, C = capacitance, F = frequency, G = analog bar graph, IR = infrared temp., LoZ = low impedence mode, LPF = low-pass filter, M = microamps, NCV = noncontact voltage, P = peak hold, SD = smart data hold, T = Type K temp.; includes temperature probe(s).***

EXTECH INSTRUMENTS

Troubleshooting Kits

Essential diagostic, installation, and repair tools are combined in a handy carrying container to provide protection and organization for the meters and accessories.


No. 15X977



No. 4DKJ7

Includes	Mfr. Model	Item No.
Energy Audit Kit		
Mfr. No. MO290 Pinless Moisture Psychrometer Plus InfraRed Thermometer, Patented InfraRed Thermometer with Laser Pointer for Non Contact Surface Temperature Measurement, Pin Probe, AN200 CFM, CMM Mini Thermo Anemometer Plus Infrared Thermometer, CO250 Portable Indoor Air Quality CO2 Meter, Datalogger, Cable to Analyze Data On Your PC, BR200 Video Borescope, Wireless Inspection Camera, MicroSD Memory Card, Heavy Duty Hard Carrying Case	MO290-EK	**15X977**
Digital Multimeter Kit		
Mfr. No. EX505 Industrial Grade, CAT IV-600V, 4000 Count Display, Waterproof, Drop Proof, Rugged Multimeter with True RMS Functions, DV25 Dual Range AC Voltage Detector (24 to 1000VAC/100 to 1000VAC) Plus Flashlight with Audible, Visual Indication, Double Molded Housing, CAT IV-1000V Safety Rating, TL808 (8) Piece Professional Test Lead Kit with CAT III-1000V Safety Rating, Set of Double Molded Professional Test Leads, Type K Thermocouple Bead Probe and Type K to Banana Input Adaptor, Soft Carrying Case	EX505-K	**4DKJ7**

Clamp Meters

AMPROBE



No. 4FFJ8



No. 2ATU9

CAT III 600V safety rating unless otherwise noted. Select models are VAR clamps, which measure volts, amps, and resistance (continuity). Each includes carrying case. All except Nos. 38RX02 and 2ATU8 include test leads, and all include batteries.

ANALOG

Instrument works in cold temperatures where digital clamp LCD screens tend to freeze, and measures amps and volts without needing batteries. Cat IV 600V safety rating.

400 AMPS ELECTRICAL

A 180° rotating head measures AC current and helps take other readings in tight places.

600 AMPS ELECTRICAL

No. 2ATU9 has extra-thin jaws for frequency measurement and is overload protected.

Nos. 3DNY9 and 3DNZ1 show voltage and current on dual displays for voltage drop tests.

800 AMPS ELECTRICAL

VAR clamps for electrical and HVAC applications include relative readings; No. 2AUZ9 features true RMS.

1000 AMPS INDUSTRIAL AND HIGH CURRENT

No. 2ATU8 provides a wide range of measurements.

Nos. 4FFK1 is designed for high-current industrial applications, supporting a broad range of measuring functions with true RMS sensing. Large backlit display. No. 4FFK1 has CAT IV 600V safety rating.

AC Amps	DC Amps	Max. AC Volts	Resist. (Ohms)	Jaw Cap.	Temp. Range	Temperature IR	Frequency Counter	Capacitance	Peak Hold	Mfr. Model	Item No.
Analog											
1000	—	600	1000 megohm	1.9" (48mm)	•	—	—	—	—	RS-1007 PRO	**4FFJ8**
300 Amps Electrical											
300	300	—	—	1.0" (25mm)	—		—	—	—	AMP-25	**38RX02**
400 Amps Electrical											
400	—	600	40 megohm	1.2" (30mm)	•	•	—	•	—	ACD-23SW	**6NZF3**
600 Amps Electrical											
600	—	600	40 megohm	1.0" (25mm)	•	—	•	•	—	ACD-10 PLUS	**2ATU9**
600	—	600	40 megohm	1.0" (25mm)	•	•	•	•	—	ACD-14 PLUS	**3DNY9**
600	—	600	40 megohm	1.3" (33mm)	•	•	•	•	—	ACD-14 TRMS-PLUS	**3DNZ1**
600	2000uA	600	6000 megohm	1.1" (28mm)	•	•	•	•	•	ACD-14-PRO	**52JJ18**
800 Amps Electrical											
800	1000	600	40 megohm	2.0" (51mm)	•	—	—	•	—	ACDC-100	**2AUZ8**
800	1000	600	40 megohm	2.0" (51mm)	•	—	—	•	—	ACDC-100 TRMS	**2AUZ9**
1000 Amps Industrial											
1000	—	600	40 megohm	1.8" (46mm)	•	—	—	—	—	ACD-6 PRO	**2ATU8**
1000	1000	750	66 megohm	2.0" (51mm)	•	—	•	•	•	ACDC-3400 IND	**4FFK1**
1000	1000	1000	60,000	2.0" (51mm)	—	—	—	—	—	AMP-330	**34NK45**



No. 2ATB3

Max. AC Voltage	Max. Input Current	Max. Output Current	Features	Mfr. Model	Item No.
3-Wire AC Line Separator					
120	15A	15.0A	1X for Direct Readings to 15 Amperes, 10X for Increased Sensitivity of Low Current Measurements, Voltage Measurement Ports	ELS2A	**2ATB3**



No. 22XX22



No. 52KA90

Clamp Meters

WESTWARD® UEI TEST INSTRUMENTS™

WESTWARD®

Autoranging instruments feature audible continuity, diode test, data hold, and Auto-Off. LCD shows test results. No. 22XX24 provides true RMS AC response. ETL Listed for U.S. and Canada. IEC 61010 Compliant.

UEI TEST INSTRUMENTS™

Meters have true RMS accuracy, backlit dual display, and noncontact voltage tester. Measure temperature, capacitance, and frequency/duty cycle. Noncontact voltage in tip.

Includes	Max. AC Volts	Max. AC Amps	Max. DC Volts	Max. DC Amps	Max. Ohms	AC Current Accuracy	Counts	Jaw Cap.	Safety Rating	Item No.
Clamp Meter										
Westward										
Test Leads, Batteries, Temperature Probe, Soft Carrying Case and Instructions	600	400	600	—	20 megohm	±1.5% + 5 Digits	2000	1.1" (28mm)	CAT III 300V, CAT II 600V	**22XX22**
Test Leads, Batteries, Soft Carrying Case and Instructions	600	400	600	400	40 megohm	±2.5% + 5 Digits	4000	1.1" (28mm)	CAT III 300V, CAT II 600V	**22XX23**
	600	600	600	—	20 megohm	±1.5% + 5 Digits	2000	1.1" (28mm)	CAT III 300V, CAT II 600V	**22XX26**
Test Leads, Batteries, Hard Case and Instructions	600	1000	1000	1000	40 megohm	±2.0% + 2 Digits	4000	2.1" (53mm)	CAT III 300V, CAT II 600V	**22XX24**
	600	1000	1000	1000	40 megohm	±2.0% + 2 Digits	4000	2.1" (53mm)	CAT III 300V, CAT II 600V	**22XX25**
UEI Test Instruments										
(2) Batteries, Test Leads, K-Type Temperature Probe, Pouch	750	400	400	400	40 megohm	±1.2% + 3 Digits	4000	1.2" (25mm)	CAT III 600V, CAT II 1000V	**55CH55**
Test Leads, Alligator Clips, Pouch, Batteries	750	600	600	2000uA	60 megohm	±2.0% + 8 Digits	6000	1.3" (33mm)	CAT IV 600V	**52KA90**
Digital Multimeter, Clamp On Kit										
Westward										
Digital Electrical Multimeter ,Clamp On Ammeter,Test Leads, Battery , Magnetic Strap and Deluxe Carrying Case										**22XX28**
Digital Electrical Multimeter, Clamp On Ammeter,Test Leads, Battery,Temperature Probe,Magnetic Strap and Deluxe CarryingCase										**22XX29**



No. 4NYX6

Clamp/Fork Meters

Milwaukee

Rugged, heavy-duty instruments feature true RMS measurement for greater accuracy. High-contrast, white-on-black, backlit display is easy to read. LED task light. Each includes test leads and AA batteries. Nos. 4NYX6 and 4NYX7 are CAT IV 600V. No. 4NYX6 features Lo-Z measurement to eliminate ghost voltage. No. 4NYX7 provides 600µA DC readings for flame rectification and has a dual banana thermocouple input for contact temperature measurement. No. 5MLK3 is CAT III 600V.

Amps (AC)	Voltage (AC/DC)	Jaw Cap.	Capacitance	Temp. Range	Non-Contact Voltage Detector	Data Hold	Calibration Certificate	Mfr. Model	Item No.
200	1000	0.6" (15mm)	40nF	—	Yes	Yes	No	2205-20	**4NYX6**
1	1000	0.6" (15mm)	1000uF	-40° to 752°F	Yes	Yes	No	2206-20	**4NYX7**
600	600	1.4" (36mm)	40nF	—	Yes	Yes	NIST	2237-20NST	**5MLK3**

WESTWARD FLIR EXTECH INSTRUMENTS
AMPROBE GREENLEE
Megger Milwaukee


No. 19T239


No. 22UL82


No. 3EMK6


No. 460J52


No. 2NRW6


No. 6YPR9


No. 20LN62

Voltage/Current, and Current Detectors

Personal safety tools detect live AC voltage without contact to wire. Each includes batteries.

Item	Voltage Range	Indication	Flashlight	On/Off Switch	Battery Type	Safety Rating	Mfr. Model	Item No.
Westward								
Voltage Detector	24 to 600VAC	Visual	No	No	AAA	Cat IV 600V	19T239	**19T239**
Voltage Detector	50 to 600VAC	Visual	No	No	AAA	Cat IV 600V	19T235	**19T235**
Voltage Detector	50 to 600VAC	Visual	No	No	(2) AAA	Cat IV 600V	19T236	**19T236**
Voltage Detector	50 to 1000VAC	—	Yes	No	AAA	Cat IV 1000V	19T240	**19T240**
Voltage Detector	90 to 1000VAC	Visual	No	No	AAA	Cat IV 1000V	19T237	**19T237**
Voltage Tester	90 to 1000VAC	Visual	No	No	AAA	Cat IV1000V	19T238	**19T238**
FLIR								
Non-Contact Voltage Detector	24 to 1000VAC, 90 to 1000VAC	Visual/Vibration	Yes	Yes	AAA	CAT IV 1000V	VP50	**22UL82**
Extech								
Current Detector	200mA to 1000A	Audible/Visual	No	Yes	(4) LR44	CAT III 600V	DA30	**8EUV1**
Dual Range AC Voltage Detector	24 to 1000VAC, 100 to 1000VAC	Audible/Visual	Yes	No	AAA	CAT IV 1000V	DV25	**3EMK6**
Voltage and Current Detector	12 to 600VAC, 200mA to 1000A	Audible/Visual	No	Yes	(4) LR44	CAT III 600V	DVA30	**1VXT3**
Voltage Detector	12 to 600VAC	Audible/Visual	No	Yes	LR44	CAT III 600V	DV30	**5HXC2**
Voltage Detector	100 to 600VAC	—	Yes	Yes	AAA	—	DV20	**8F307**
Amprobe								
Non-Contact Voltage Detector	12 to 1000VAC	Audible/Visual	Yes	Yes	(2) AAA	CAT IV 1000V	NCV-1030	**460J52**
Non-Contact Voltage Detector	12 to 1000VAC	Audible/Visual	Yes	Yes	(2) AAA	CAT IV 1000V	NCV-1040	**460J53**
Voltage Detector	50 to 1000VAC	Visual	No	No	AAA	CAT III 1000V	VP-440	**12U589**
Greenlee								
Adjustable Voltage Detector	5 to 1000VAC	Audible/Visual	No	No	AAA	CAT IV 1000V	GT-16	**2NRW6**
Megger								
Voltage Detector	100 to 600VAC	Audible/Visual	Yes	Yes	AAA	CAT III 1000V	VF2	**6YPR9**
Milwaukee								
Voltage Detector	10 to 1000VAC	LED	Yes	Yes	AAA	CAT IV 1000VAC	2203-20	**20LN62**
Voltage Detector	50 to 1000VAC	Audible/Visual	No	Yes	AAA	CAT IV 1000V	2200-20	**6JHY1**
Voltage Detector	50 to 1000VAC	Audible/Visual	Yes	Yes	AAA	CAT IV 1000V	2202-20	**6JHY2**

AMPROBE IDEAL WESTWARD EXTECH INSTRUMENTS

Voltage, Voltage/Continuity, and Multifunction Testers

Voltage Testers—Indicate the presence of voltage.

Voltage/Continuity Testers—Add continuity to voltage tester functionality.

No. 2TKT6 tests 3-phase rotation. No. 1RG99 provides noncontact voltage sensing.


No. 5NLK5


No. 3T887


No. 28AF75


No. 2TKT6



No. 3T886

AC Voltage Range	DC Voltage Range	Includes	Display	Vibrates	Audible Continuity	Auto Ranging	Low Impedance	Flashlight	Battery Type	Safety Rating	Mfr. Model	Item No.
Voltage Tester												
Amprobe												
120 to 480	160/330/380/600	Manual	(4) Neon Lamps	No	No	No	No	No	—	CAT III 600V	PY-1A	**5NLK5**
IDEAL												
100 to 600	100 to 600	Standard Test Leads, Batteries, Manual	(4) Neon Lamps	Yes	No	No	Yes	No	(4) LR44	CAT III 600V	61-065	**3T887**
Westward												
12 to 600	12 to 690	Batteries, Test Lead Strap, Operating Instructions	Backlit LCD with Discrete LED	No	Yes	Yes	No	Yes	(2) AAA	—	28AF75	**28AF75**
Voltage and Continuity Tester												
Extech												
0 to 480	0 to 690	(2) AAA Batteries, Protective Cap, Pouch Case	LCD with Bargraph	No	Yes	Yes	Yes	Yes	(2) AAA	CAT IV 600V	VT30	**2TKT6**
IDEAL												
24 to 600	6/12/24/36/48/110/220	Test Leads, Batteries, Manual	Discreet LED	Yes	Yes	No	Yes	No	(4) AAA	CAT III 1000V	61-092	**1RG99**
120 to 600	120/240/600	Manual	LED and Neon Lamps	Yes	No	No	Yes	No	(4) LR44	CAT III 600V	61-076	**3T886**

AMPROBE

Electrical Test Kit

Includes digital multimeter, socket tester with GFCI, and noncontact voltage detector.

Brand	Mfr. Model	Item No.
Amprobe	PK-110	**38RX04**



Look for this icon for Fluke Connect® wireless-enabled tools. Learn more about Fluke Connect on page 610 or at grainger.com/fluke

Voltage Testers

FLUKE.

Instruments are designed for use by electricians and professionals in industry, HVAC, and building maintenance. 2-yr. warranty.



Fluke T5-600 No. 4KF19



Fluke T6-600 No. 420J01



Fluke T+Pro No. 1CWL2



Fluke 9040 No. 2NV55



V3000 FC AC Voltage Module No. 31FN21

FLUKE T5 ELECTRICAL TESTERS

Compact pocket testers make easy and accurate OpenJaw™ current measurement.

FLUKE T6 ELECTRICAL TESTERS

Measure voltage without test leads using integrated FieldSense technology. Measure voltage through the open fork, without test lead contact to live voltage, without opening covers, or removing wire nuts. Use on wires up to AWG 4/0 (120mm²) carrying as much as 200A.

FLUKE T+/T+PRO VOLTAGE AND CONTINUITY TESTERS

- GFCI trip test

Vibration, light, and beeper indicate presence of voltage without the hazards of a solenoid tester. Low impedance avoids ghost errors.

FLUKE 9040 PHASE ROTATION INDICATOR

- 3-phase indicator
- Clear LCD

Powered by unit under test—no batteries required.

FLUKE CONNECT® VOLTAGE TESTERS

Designed to help you spend ⅓ the time taking 3-phase power readings, work safer, and communicate wirelessly with Fluke Connect app with these fully functional AC voltage meters.

VOLTAGE TESTER ACCESSORIES



T5-1000 Tester Kit

T5-1000 electrical tester No. 4KF17, 1AC-II VoltAlert™ No. 2KU25, and H5 Holster No. 4PD22.



T+PRO-1AC Electrical Tester and AC Voltage Detector Kit

T+PRO Voltage Tester No. 1CWL2 and 1AC-II VoltAlert™ No. 2KU25.



T5 Tester Accessory Starter Kit

TP220 SureGrip™ test probes with removable comfort grips No. 3MU87, AC285 SureGrip large-Jaw alligator clips No. 4FB12, and soft case.



Fluke T5 RLS Replacement Test Lead Set for T5-600 and T5-1000 No. 13E627



H5 Holster for T3 and T5 Testers No. 4PD22



C520A Leather Tester Case for T5 Tester No. 5PR86

Max. AC Volts	Max. DC Volts	Safety Rating	Mfr. Model	Item No.
Fork Meters				
T6 Electrical Testers				
600	600	CAT III 600V	T6-600/WWG	**420J01**
1000	1000	CAT III 1000V	T6-1000/WWG	**420H99**
T5 Electrical Testers				
1000	1000	CAT IV 600V, CAT III 1000V	Fluke-T5-1000	**4KF17**
1000	1000	CAT IV 600V, CAT III 1000V	Fluke-T5-1000 NIST	**4KF16**
600	600	CAT III 600V	Fluke-T5-600	**4KF19**
600	600	CAT III 600V	Fluke-T5-600 NIST	**4KF18**

AC Voltage Range	DC Voltage Range	Phase Rotation	Includes	Mfr. Model	Item No.
Voltage Testers					
12 to 600	12 to 600	—	—	T+	**1CWL3**
10.2 to 600	10.2 to 600	Yes	User Manual, Test Lead Wrap, TP2 Test Probes	Fluke-T+Pro	**1CWL2**

Voltage Range	Frequency Range	Includes	Mfr. Model	Item No.
Phase Rotation Indicator				
10 to 700VAC	15 to 400Hz	(3) Permanently Attached Test Leads And Probes, Alligator Clips, and Instructions	Fluke-9040	**2NV55**

Description	Voltage Range	Includes	Mfr. Model	Item No.
Fluke Connect Voltage Modules				
AC Voltage Module	3mV to 1000VAC	Test Leads, Alligator Clips, Batteries, Magnet Strap, Quick Start Guide Only	FLK-V3000FC	**31FN21**
DC Voltage Module	3mV to 1000VAC	Test Leads, Alligator Clips, Batteries, Magnet Strap, Quick Start Guide Only	FLK-V3001FC	**31FN25**

Description	Mfr. Model	Item No.
Accessories and Kits		
T5 Electrical Test Kit	Fluke-T5-H5-1AC-Kit	**2PY98**
T+Pro-1AC Electrical Test Kit	Fluke-T+Pro-1AC Kit	**1CWL4**
T5 Replacement Modular Test Lead Kit	Fluke-T5-KIT	**4FB11**
T5 Test Leads	Fluke-T5-RLS	**13E627**
Plastic Holster	Fluke-H5	**4PD22**
—	Fluke-C520A	**5PR86**
Proving Unit	PRV240	**40KJ09**
T6 Electrical Testers, DMMS and Clamps	PRV240FS	**420H98**



Fluke 2AC VoltAlert™ No. 6GAE8



Fluke 1AC-A1-II VoltAlert™ with Sound No. 2KU25



Fluke LVD2 Volt Light with Flashlight No. 1DGY1

Noncontact Voltage Testers

FLUKE.

- Test for energized circuits and defective grounds
- 2-yr. warranty

Pocket-size testers are easy to use: Tip glows red to verify voltage in the line. Each includes batteries.

Mfr. Model	Voltage Range	Audible Alert	Flashlight	On/Off Switch	Safety Rating	Item No.	Pkg. Qty.
Fluke-2AC	90 to 1000VAC	No	No	No	CAT IV 1000V	**6GAE8**	1
Fluke-2AC-5PK	90 to 1000VAC	No	No	No	CAT IV 1000V	**6GAE9**	5
Fluke-1AC-A1-II	90 to 1000VAC	Yes	No	Yes	CAT IV 1000V	**2KU25**	1
FLK-1AC-II-5PK	90 to 1000VAC	Yes	No	Yes	CAT IV 1000V	**2KU27**	5
Fluke-LVD2	90 to 600VAC	No	Yes	Yes	CAT IV 600V	**1DGY1**	1
FLK-1LAC-A-II	20 to 90VAC	Yes	No	Yes	CAT IV 1000V	**2KU26**	1

WESTWARD | HUBBELL Wiring Device-Kellems | EXTECH INSTRUMENTS | BRADY | AMPROBE

Receptacle and Circuit Testers

Receptacle and Circuit Testers—Check for correct wiring in 3-wire electrical receptacles on AC circuits. GFCI and AFCI (arc fault circuit interrupter) testers also verify proper circuit interrupt operation. All except No. 3D360 feature LED indicators.

WARNING: Not for use on circuits employing isolation transformers (such as cardiac care).

Item	Voltage	Load Current	Safety Rating	Brand	Item No.
Receptacle Tester	110 to 125VAC	—	—	Westward	**19T233**
Receptacle Tester with GFCI	110 to 125VAC	6 to 9mA for GFCI	—	Westward	**19T234**
Receptacle Tester with GFCI	125VAC	—	—	Hubbell Wiring Device-Kellems	**3D360**
Receptacle Tester with GFCI	120	—	—	Extech	**40JZ67**
Receptacle Tester with GFCI	—	—	—	Brady	**15Y517**
AC Circuit Analyzer	95 to 140VAC	6 mA for GFCI, 30mA for RCD	CAT II 120V	Amprobe	**6UNU9**


No. 19T233


No. 3D360



No. 40JZ67



No. 6UNU9

HDE HD ELECTRIC COMPANY
A Textron Company

High Voltage Storm Restoration and Maintenance Tools

Personal Voltage Detector—Detects and alerts operator when in the presence of electrical fields or energized electrical equipment.

Noncontact Voltage Detectors—Noncontact voltage detectors gives indication with a typical detection distance of 10". A 15-min. charge will provide a full day use.

Voltmeters—Compact dual-stick voltmeters and phasing set with capacitance test point mode and peak hold. With 1% accuracy from reading.

Direct-Contact Voltage Detectors—Single-point instruments are designed to read voltage on a conductor up to 500kV line-to-ground.

Low-Voltage Detector—Used to detect stray voltage as low as 5 volts.

High Voltage Ammeter—Capability to take spot-load studies at transformers or any mid-span location, as well as phase balance studies on primary or secondary lines, all within accuracy of 1%. Takes True RMS AC current measurements up to 2000A, 25 to 500 Hz.

Hotsticks—Fiberglass sticks are designed and required to be used with voltmeters, noncontact and direct contact voltage detectors, and ammeters.


No. 35ME39


No. 35ME32

Description	Includes	Voltage Range	Power Req.	Mfr. Model	Item No.
Personal Voltage Detector					
V-Watch	Carrying Case Lanyard	2400VAC	9V Alkaline 1604A, IEC 6LR61	VW-20H	**35ME39**
Non Contact Voltage Detectors					
Proximity Voltage Detector	Charge Cord, Transformer, Carrying Holster and Carrying Case	120VAC to 500kV	Lithium Battery	PRX-500	**35ME32**
	Charge Cord, Transformer, Carrying Holster and Carrying Case	120VAC to 69kV	Lithium Battery	PRX-69D	**35ME33**
Voltmeters					
Universal Digital Voltmeter	Peak Hold, Case and (2) Overhead Probes	5V to 40kV	—	DVM-80UVM	**35ME27**
Voltmeter Proof Tester®	9V Battery	—	9V Alkaline Battery	PT-5000B	**35ME34**
Direct Contact Voltage Detectors					
Digital Voltage Indicator	Case, (2) Overhead Probes and Proof Tester	0.1kV to 500kV	9V Lithium Battery	DVI-500/K06	**35ME26**
DVI Proof Tester	—	—	9V Alkaline Battery	PT-DVI	**35ME35**
Low Voltage Detector and Accessories					
Stray Voltage Detector	Holster with Integrated Tester	5 to 600VAC	—	LV-5/K01	**35ME29**
Extension Handle	—	—	—	LV-EH	**35ME30**
Ground Shield	—	—	—	LV-GS	**35ME31**
Voltage Probe	Tester and Bag	5 to 600VAC	—	VP-1/K01	**35ME38**
VP Proof Tester	—	—	Battery	PT-VP	**35ME40**
Voltage Ammeter					
High Voltage Digial Ammeter	Tool and bag	500kV, 25 to 500Hz	9V Alkaline Battery	HVA-2000	**35ME28**
Hotsticks®					
4 Ft.				S-4H	**35ME36** *
6 Ft.				S-6H	**35ME37** *

Required with PRX, DVM (2 required), DVI and HVA Instruments



No. 4JNV4


No. 2CJN9

AMPROBE

High Energy Tic Tracer

- Verifies presence of 30V to 122kVAC (above 1500V requires Hot Stick No. 2CJN9, sold separately)
- Visual and audible voltage indication
- Dropproof to 6 ft.

Utility tool safely checks transmission lines, power distribution equipment, downed power lines, fuses, and load break connectors. Includes 9V battery.

Description	Item No.
High Voltage Detector	**4JNV4**
Adjustable Hot Stick	**2CJN9**

EXTECH INSTRUMENTS | IDEAL

GFCI and AC Circuit Analyzers

Units measure loaded and unloaded AC line voltages; calculate and display % voltage drop and line impedance; and display peak line voltage and frequency. Offer selectable 12, 15, or 20A load. No. 5GCC8 includes test cord with 3-prong plug. CAT II 300V. No. 9TE53 is CAT III 300V.



No. 5GCC8

Item	Voltage	Load Current	Brand	Item No.
GFCI Analyzer	90 to 240VAC	6 to 9mA for GFCI, 30 to 37mA for EPD	Extech	**5GCC8**
AC Circuit Analyzer	85 to 265VAC	6 to 9mA for GFCI, Greater than 30mA for EPD	Suretest	**9TE53**

Find Fluke meters on pages 536 to 541, 558, and 562.



C25 Large Soft Case
No. 2A428



C35 Meter Case
No. 2DPJ5



C50 Meter Case
No. 2A431



C550 Tool Bag
No. 5PR88



C781 Meter Case
No. 4KD78



PACK 30
No. 485A70



Fluke 80TK
Thermocouple Module
No. 2A433



Fluke 80T-150U
Universal Temp. Probe
No. 1T330



Fluke 80AK-A
Thermocouple Adapter
No. 2DPH5



Fluke 80K-40 High
Voltage Probe
No. 1T321



Fluke PV350 Pressure/
Vacuum Module
No. 6T375



Fluke SV225 Stray
Voltage Eliminator
No. 2JYX4

Cases, Fuses, Probe Lights, and Stray Voltage Eliminators

Accessories, small test lead kits, and other items are specifically designed to work with or protect Fluke® test instruments.

For Use With	Weather-Resistant Zipper	Wrist Strap	Belt Loop	Material	W	H	D	Mfr. Model	Item No.
Soft and Leather Cases									
Mfr. No. 110/111/112/12/16 Series	Yes	Yes	Yes	Vinyl	5"	1½"	6¾"	Fluke-C12A	**6T200**
Mfr. No. 114/115/116/117, 77 IV, 922, 971, 61 Series	Yes	No	Yes	Vinyl	4"	2"	8"	Fluke-C23	**3MU93**
Mfr. No. 20/70/80/170/180, 50/60, 1500, 320 Series	Yes	No	Yes	Polyester	5"	8½"	2½"	Fluke-C25	**2A428**
Mfr. No. 20, 70, 11X, 170 Series	Yes	No	No	Polyester	5½"	8½"	2½"	C35	**2DPJ5**
Mfr. No. 1520, 40 Series Power Meters, i1000s, i3000s	Yes	Yes	No	Vinyl	7½"	3¼"	12½"	Fluke-C43	**3MU95**
Mfr. No. 16/110, 50 Series	Yes	Yes	Yes	Polyester	3⅞"	1½"	7½"	Fluke-C50	**2A431**
Fluke Accessories	Yes	No	No	Vinyl	1"	7¾"	4"	Fluke-C75	**1TC07**
Mfr. No. 20/110/170, 50/60 Series	Yes	No	Yes	Polyester	3½"	2 13/16"	8"	Fluke-C90	**1A742**
Mfr. No. 20, 70, 11X, 170 Series	Yes	No	No	Polyester	7"	2"	9"	C115	**2DPJ6**
Mfr. No. 20, 70, 11X, 170 Series	Yes	No	No	Polyester	8¾"	2"	8¾"	C116	**2DPJ7**
Scopemeter, Mfr. No. 120 Series	Yes	No	Yes	Polyester	5½"	2½"	10"	Fluke-C125	**4KD76**
Mfr. No. 287, 289 DMMs, Other Similar Format Test Tools	Yes	Yes	No	Polyester	7 5/16"	9"	2⅝"	C280	**2VFZ9**
All Instruments	Yes	No	No	Polyester	8"	9½"	14"	Fluke-C345	**3HCE8**
Mfr. No. C33/WWG, T5-Kit, C33/RS, T5-600	Yes	No	Yes	Polyester	4⅞"	2"	10⅛"	Fluke-C33	**3MU94**
Mfr. No. C510/WWG, C510 ELECT	No	No	Yes	Leather	5"	2 5/16"	9"	Fluke-C510	**5PR85**
Mfr. No. T3/T5	No	No	Yes	Leather	3"	2"	10"	Fluke-C520A	**5PR86**
All Instruments	Yes	Yes	No	Cloth	8½"	12"	16"	Fluke-C550	**5PR88**
Mfr. No. C781/WWG, FLK 177/FA, FLK 187/FA	Yes	No	No	Nylon	1"	5⅝"	10⅜"	Fluke-C781	**4KD78**
Hand Tools	No	No	No		7"	2"	9½"	FLUKE-PACK30	**485A70**
Hard Cases									
Mfr. No. 27/80/180 Series	No	No	No	Plastic	6"	4"	10"	Fluke-C20	**2A427**
Mfr. No. 27, 80 Series, 180 Series, 720 Series, 780 Series	No	No	No	Copolymer	12½"	5"	11"	Fluke-CXT80	**3HCE9**
Mfr. No. 120, 124 Series Scopemeter, Handheld Digital Storage Oscilloscopes	No	No	No	Plastic	15½"	4½"	13⅓"	Fluke-C120	**3LV80**
Mfr. No. 922, 1500 Series, 70, 110 Series, 710 Series, 787, Series 50	No	No	No	Copolymer	12½"	5"	11"	Fluke-CXT170	**3HCF1**
Mfr. No. 280 Series, 1621	No	No	No	Copolymer	12½"	5"	11"	Fluke-CXT280	**3HCF2**
All Instruments	No	Yes	No	Plastic	6⅞"	10"	13"	Fluke-C1600	**4CB79**
Holsters									
Mfr. No. 80/710 Series, 787	No	Yes	No	Plastic	4¼"	2"	8"	Fluke-H80M	**4YE79**
FLUKE-63 to FLUKE-68-NIST, FLUKE-68 IS and FLUKE-68 IS NIST	No	Yes	Yes	Polyester	7"	2"	9½"	Fluke-H6	**5YB23**

Pkg. Qty.	Mfr. Model	Item No.
Multimeter Replacement Fuses		
5	Fluke-871173/630 mA	**1T337**
5	Fluke-871207/1A	**6T219**
5	Fluke-871178/2A	**1T338**
1	Fluke-892583/15A	**3T244**
1	Fluke-203403/11A	**3LW10**
1	Fluke-203411/440mA	**3LW11**

Description	Mfr. Model	Item No.
Modules, Probes, Testers and Pressure Vacuum Module		
Thermocouple Module	Fluke-80TK	**2A433**
Universal Temperature Probe	Fluke-80T-150U	**1T330**
Thermocouple Adapter	Fluke-80AK-A	**2DPH5**
High-Voltage Probe, 40 KV DC or 28 KV RMS	Fluke-80K-40	**1T321**
High-Voltage Probe, 6 KV DC or 4.24KV RMS	Fluke-80K-6	**1T320**
Pressure/Vacuum	Fluke-PV350	**6T375**

Description	Includes	Mfr. Model	Item No.
Probe Lights			
LED Probe Light and Modular Extenders	(2) 8" Probe Extenders, Probe Light, (2) 3V Watch Batteries	Fluke-L210	**4CB69**
LED Probe Light Kit	Mfr. No. L200 Probe Light, Mfr. No. TL71 Premium DMM Test Lead Set and Mfr. No. C75 Case	Fluke-L211	**4CB70**
LED Probe Light	(2) 3V Watch Battery	Fluke-L200	**4CB68**
Stray Voltage Eliminators			
SureGrip™ Stray Voltage Adapter Test Lead Kit	Mfr. No. SV225 Stray Voltage Eliminator, Mfr. No. TL224 SureGrip(TM) Silicone Test Lead Set (Right to Straight), Mfr. No. TP220 SureGrip(TM) Test Probe Set, Mfr. No.C75 Accessory Case	Fluke-TL225	**1BE25**
Stray Voltage Eliminator	Instructions	Fluke-SV225	**2JYX4**

GA GRAINGER APPROVED

Test Sets

	Components Included with Kits Item Nos.											
	4WRD7	4WRE6	4WRE8	4WRD9	4WRD8	4WRE7	4WRE1	4WRE3	4WRE4	4WRE5	4WRD6	4WRE2
Alligator Clips (pair)												
Industrial	•	—	—	•	•	—	•	•	—	—	•	—
Large	—	•	—	—	—	—	•	—	—	—	•	•
medium	—	•	—	—	—	•	—	•	•	•	—	•
Modular Test Leads (pair)												
Banana to Point	—	•	—	—	—	•	—	•	•	•	—	—
Straight to Rt. Angle	—	—	•	•	•	•	•	•	•	•	•	•
Rt. Angle to Rt. Angle	•	—	—	—	—	—	—	—	—	—	—	—
Mini Test Lead to Pincer	—	—	—	—	—	•	—	•	•	—	—	—
Mini Test Lead to Hook	—	—	—	—	—	•	—	•	•	—	—	—
Modular Test probes												
Banana to Test Probe	•	—	•	•	•	•	•	—	•	•	•	•
Banana to Plunger Hook	—	—	—	—	—	—	•	—	—	•	•	—
Banana to Plunger Pincer	—	—	—	—	—	—	•	—	—	•	•	—
Extenders												
Slide on Tip	—	•	—	—	—	—	—	—	—	—	—	—
Modular Probe Extender	—	—	•	—	—	—	—	—	—	—	—	—
Spade Lugs												
Bare	—	—	—	—	—	•	—	•	—	—	—	—
with Banana Jack	—	—	—	—	—	—	—	—	•	—	—	—
Plastic Cover	—	—	—	—	—	—	—	—	—	•	—	•
IC Adapters												
Slide on	—	—	—	—	—	•	—	—	—	—	—	•
Short	—	—	—	—	—	•	—	•	—	—	—	•
Case												
Soft	—	•	—	•	—	•	•	•	•	•	•	•



No. 4WRE5

Description	Safety Rating	Item No.
Industrial Electrial/ HVAC Test Lead Set	CAT III 1000V	4WRD7
Basic, Low Energy Electronics Test Lead Set	CAT III 1000V, CAT II 300V	4WRE6
DMM Test Lead Set	CAT III 1000V, CAT II 300V	4WRE8
Deluxe Electrical Test Lead Set	Cat III 1000V	4WRD9
Multimeter/Ammeter Test Lead Set	CAT III 1000V	4WRD8
Deluxe Electronics Test Lead Set	CAT III 1000V, CAT II 300V	4WRE7
Master Accessory Set	Cat III 1000V	4WRE1
Multiuse Electronics Test Lead Set	CAT III 1000V, CAT II 300V	4WRE3
Electronics Master Set	CAT III 1000V, CAT II 300V	4WRE4
Industrial Test Lead Set	CAT III 1000V, CAT II 300V	4WRE5
DMM Probe Set	CAT III 1000V	4WRD6
Heavy-Duty Electrical Test Lead Set	CAT III 1000V, CAT II 300V	4WRE2

Corded Probe and Clamp Test Leads

GA GRAINGER APPROVED

Connection	Length	Safety Rating	Max. Amps	Color Code	Item No.
Right Angle Shrouded Plug to Retractable Probe	3 ft. 3"	CAT IV 1000V	10	Black/Red	4WPZ4
Right Angle Shrouded Plug to Probe	4 ft.	CAT III 1000V	10	Black/Red	4WPZ8
	4 ft.	CAT IV 1000V	10	Black/Red	4WRC9
Right Angle Shrouded Plug to Large Alligator Clip	3 ft.	CAT III 1000V, CAT IV 600V	10	Black	4WPZ5
	3 ft.	CAT III 1000V, CAT IV 600V	10	Red	4WPZ6
Right Angle Shrouded Plug to Hook Clip Probe	3 ft. 4"	CAT II 300V	5	Black	4WRD2
	3 ft. 4"	CAT II 300V	5	Red	4WRD3
Right Angle Shrouded Plug to 5 Way Clip	3 ft. 4"	CAT II	8	Black/Red	4WPZ9
Precision Electronic Probe Set, Length 3 ft. 3", CAT III 1000V, Includes Insulated Test Probes with Sheathed Right Angle Banana Plug and (5) Pair of Replaceable Tips				Black/Red	4WPZ7



No. 4WPZ4



No. 4WRC5

GA GRAINGER APPROVED

Modular Test Lead Probes, Clips, and Extensions

No. 4WRC8 has a 4mm dia. sharp point and 2mm tip.

Nos. 4WRC5 and 4WRC7 have a 2mm dia. sharp point for hard-to-reach areas and recessed components.

No. 4WRC6 is flat-bladed.

No. 4WRA3 is insulation piercing, plunger style.

No. 4WRA2 is designed to test semiconductor interconnects and high-density circuit boards.

Nos. 4WRC1, 4WRA9, 4WRC2, and 4WRD4 are plunger style. No. 4WRA9 alligator clip tip grabs round fasteners. No. 4WRC1 is a hook clip. No. 4WRC2 is a pincer clip for testing areas in close contact. No. 4WRD4 is a bus bar clip.

Item	L	Opening Size	Instrument Safety Rating	Max. Amps	Color	Item No.
Multimeter Test Leads with 4mm Sheathed Banana Plugs						
Alligator Clip	2½"	0.31"	CAT III 1000V	10	Black, Red	4WRA8
Modular Large Alligator Clips	3⅞"	0.78"	CAT IV 600V, CAT III 1000V	10	Black, Red	4WRA5
Modular Large Alligator Clips	4³⁄₁₆"	1.63"	CAT IV 600V, CAT III 1000V	19	Black, Red	4WRC3
Modular Medium Alligator Clips	2³⁄₁₆"	0.30"	CAT II 300V	5	Black, Red	4WRA4
Modular Test Probe	5¹³⁄₁₆"	—	CAT IV 600V, CAT III 1000V	10	Black, Red	4WRC8
Modular Test Probe	4⅜"	—	CAT IV 600V, CAT III 1000V	10	Black, Red	4WRC5
Modular Test Probe	5¹³⁄₁₆"	—	CAT IV 600V, CAT III 1000V	10	Black, Red	4WRC7
Modular Test Probe	5¹³⁄₁₆"	—	CAT IV 600V, CAT III 1000V	10	Black, Red	4WRC6
Modular Test Probe	5½"	0.18"	CAT III 1000V	5	Red	4WRA3
Modular Test Probe	5½"	—	CAT III 1000V	10	Black, Red	4WRA2
Modular Test Probe	5½"	0.43"	CAT III 1000V	10	Black, Red	4WRC1
Modular Test Probe	6⅛"	0.24"	CAT III 1000V	10	Black, Red	4WRA9
Modular Test Probe	6⁹⁄₁₆"	0.14"	CAT IV 600V, CAT III 1000V	5	Black, Red	4WRC2
Modular Test Probe	6"	0.50"	CAT III 600V	10	Black, Red	4WRD4
Modular Extension Test Leads	1 ft. 8"	—	CAT IV 600V, CAT III 1000V	10	Black/Red	4WRA6
Modular Test Leads	3 ft. 3"	—	CAT III 1000V	16	Black/Red	4WRA7
Modular Test Leads	4 ft.	—	CAT III 1000V	10	Black/Red	4WRC4
Modular Test Leads	4 ft.	—	CAT III 1000V	10	Black/Red	4WRD5



No. 4WTA1

GA GRAINGER APPROVED

EXTECH INSTRUMENTS

Carrying Cases

These cases are designed and sized to store and protect multimeters and accessories.

Overall Height	Overall Width	Overall Depth	Features	Brand	Item No.
Soft Carrying Case, Nylon					
1⅜"	5¾"	7"	Internal Pocket	GA	4WPH1
2"	4⅜"	8⅜"	Internal Pocket	GA	4WPG8
2½"	4⅜"	8⅜"	Internal Pocket	GA	4WPG6
3½"	8"	12⅞"	Zipper, Inner Front Pocket	GA	4WPH9
6"	3"	1⅞"	—	GA	4WTA4
9½"	7"	2"	—	Extech	1M940
9⅝"	6"	11⁷⁄₁₆"	(3) Internal Pockets	GA	4WPJ6
12⅝"	8"	15¾"	(10) Inside Pockets, (16) Outside Pockets	GA	4WPH8
Soft Carrying Case, Vinyl					
1⅜"	5¾"	7"	Internal Pocket	GA	4WPG9
2"	4⅜"	8⅜"	Internal Pocket	GA	4WPG7
2"	4"	10"	Internal Pocket	GA	4WPH6
2½"	4⅜"	8⅜"	Internal Pocket	GA	4WPG5
3"	6⁷⁄₁₆"	8½"	Internal Pocket	GA	4WPG3
3½"	8"	12⅞"	Zipper, Inner Front Pocket	GA	4WPJ1
3½"	7¾"	9⅝"	(3) Internal Pockets	GA	4WPJ3
6¼"	4½"	1"	—	Extech	1H152
7¾"	1¼"	3⅞"	Internal Pocket	GA	4WPH4
9⅝"	7¾"	3⅜"	(3) Internal Pockets	GA	4WPJ5
Hard Carrying Case, HDPE					
7⅜"	10⁷⁄₁₆"	3¼"	Diced foam, Light-weight, Secure, Impervious to All Solvents, Oils, Fuels and Acids	GA	4WTA1
Hard Carrying Case, PVC/Aluminum					
11⅞"	14½"	4⅜"	Reinforced Corners, Diced Foam	GA	4WRZ8

Find Fluke Digital Multimeters and Process Tools on pages 536, 537, 562, and 563.





Fluke TLK225 SureGrip™ Master Accessory Set No. 4CB84



Fluke TLK287 Electronics Master Set No. 2JYX5



Fluke TLK289 Industrial Master Set No. 2JYX6

Fluke TL223 SureGrip™ Electrical Lead Set No. 3EB22



Fluke TL75 Hard Point™ Test Leads No. 1T341





Fluke TL71 Premium Test Leads No. 4XL47

Fluke AC220 SureGrip™ Alligator Clips No. 3MU82



Fluke TL224 SureGrip™ Insulated Test Leads No. 3MU86

FLUKE

Test Leads, Test Probes, Test Lead Sets, and Clips

Convenient accessory sets expand testing capabilities.

Description	Instrument Safety Rating	Includes	Mfr. Model	Item No.
Clamp Test Leads				
5-Way Test Lead Set	CAT I 30V	1 pr. (red, black) flexible silicone-insulated leads	Fluke-TL26A	**1TC10**
Automotive Test Lead Set	CAT I 30V	1 pr. (red, black) flexible silicone-insulated leads	Fluke-TL28A	**1TC11**
Modular Test Lead Kits				
SureGrip™ Master Accessory Set	CAT IV 600V, CAT III 1000V	2 plunger-style alligator clips, 2 plunger-style hook clips, 2 plunger-style pincer clips, 2 alligator clips, 2 sharp test probes, 2 test leads, foldable pouch	Fluke-TLK-225	**4CB84**
Electronic Set	CAT II 300V	2 med. alligator clips, 2 probe-tip extenders, 2 test probes, 2 test clips with hook clips, 2 test clips with pincer-tip adapters, 2 test lead couplers, 2 bare-spade lugs, 2 test leads with stainless steel tips, foldable pouch	TL81A	**5XV77**
Electronics Master Set	CAT III 1000V, CAT II 300V	2 modular leads, 2 modular probes, 2 Minigrabber® jack sets, 2 med. alligator clips, 2 spade lugs with banan jack set, 2 couplers, 2 Micrograbbers®, 2 Micrograbber® leads, foldable pouch	TLK287	**2JYX5**
Industrial Master Set	CAT IV 600V, CAT III 1000V	2 test leads, 2 alligator clips, 2 hook clips, 2 large alligator clips, 2 test probes, hanging kit, thermocouple temp. probe, soft case	TLK289	**2JYX6**
SureGrip™ Deluxe Lead Set	CAT IV 600V, CAT III 1000V	Right-angle test leads, 2 styles of alligator clips: plunger-style and large jaw, sharp test probes, zippered vinyl case	Fluke-TLK-220	**4CB83**
SureGrip™ Electrical Lead Set	CAT IV 600V, CAT III 1000V	63" silicone-insulated test leads, test probe with flat blade, alligator clips with safety grip, spring-loaded jaws, wide 20mm opening	Fluke-TL223	**3EB22**
SureGrip™ High-Energy Lead Set	CAT IV 600V, CAT III 1000V	Modular insulated-tip test probes, modular probe extenders, modular test leads	Fluke-TL238	**4YE80**
Probe Test Leads (1 Pair)				
TwistGuard™ Test Leads	CAT IV 600V, CAT III 1000V, CAT II 1000V	Adjustable length probe tip with Wearguard™ to indicate wear	Fluke-TL175	**6YPT0**
Retractable Tip Test Probes, 5" L, PR	CAT IV 600V, CAT III 1000V	Interchangeable probes for use with most Fluke test lead sets	Fluke-TP175	**6YPT1**
Hard Point™ Test Lead Set	CAT IV 600V, CAT III 1000V	1 pr. (black, red) comfort-grip probes, 48" PVC insulated test leads with right-angle shrouded banana plugs	Fluke-TL75	**1T341**
Premium Test Lead Set	CAT IV 600V, CAT III 1000V	1 pr. (black, red) comfort-grip probes with silicone-insulated, right-angle test leads	Fluke-TL71	**4XL47**
RetractableTip Test Lead Set	CAT II 600V	1 pr. (black, red) test leads with sharp needle-point tips adjustable from 0mm to 76mm	Fluke-TL40	**1ND97**
Test Clips				
SureGrip™ Alligator Clips	CAT IV 600V, CAT III 1000V	1 pr. (red, black) small, insulated, nickel-plated jaws in plunger-style clips	Fluke-AC220	**3MU82**
SureGrip™ Hook Clips	CAT IV 600V, CAT III 1000V	1 pr. (red, black) nickel-plated jaws	Fluke-AC280	**3MU83**
SureGrip™ Pincer Clips	CAT IV 600V, CAT III 1000V	1 pr. (black, red) pin grabber jaws	Fluke-AC283	**3MU84**
SureGrip™ Alligator Clips 1.13" Opening	CAT IV 600V, CAT III 1000V	1 pr. (red, black) large alligator clips with nickel-plated steel jaws	Fluke-AC285	**3MU85**
Heavy Duty Bus Bar Clip Set	CAT III 600V	1 pr. (black, red), bus bar jaw	Fluke-AC87	**4YV66**
Heavy Duty Insulation Piercing Clip	CAT IV 600V, CAT III 1000V	1 red clip with banana plug	Fluke-AC89	**1TC26**
Test Lead Extentions (1 Pair)				
SureGrip™ Test Lead Extension Set	CAT IV 600V, CAT III 1000V	1 pr. (red, black) silicone-insulated leads with straight connectors on both ends	Fluke-TL221	**3EB19**
SureGrip™ Silicone Insulated Test Leads	CAT IV 600V, CAT III 1000V	1 pr. (red, black) shrouded leads with right-angle on both ends	Fluke-TL222	**3EB20**
SureGrip™ Insulated Test Leads	CAT IV 600V, CAT III 1000V	1 pr. (red, black) DMM test leads with safety shrouded, standard dia. banana plugs	Fluke-TL224	**3MU86**
Heavy Duty Test Leads	CAT III 1000V	1 pr. (red, black) straight leads	Fluke-TL27	**5PR89**
Test Lead Kits				
Basic Electronic Lead Set	CAT III 300V	Two 1m test leads (10A), 2 insulated alligator clips (5A), 2 insulated probe-tip extenders (3A), zippered vinyl soft case	Fluke-TL80A	**5XV76**
Test Probes (1 Pair)				
Slim Reach™ 2mm Diameter Tip	CAT IV 600V, CAT III 1000V	1 pr. (red, black) slender probes	Fluke-TP2	**4PD27**
Slim Reach™ 4mm Diameter Tip	CAT IV 600V, CAT III 1000V	1 pr. (red, black) slender probes	Fluke-TP4	**4PD28**
SureGrip™ Industrial Test Probes	CAT IV 600V, CAT III 1000V	1 pr. (black, red) deep-reaching probes with banana plugs	Fluke-TP220	**3MU87**
Electronic Test Probes	CAT III 1000V	1 pr. (black, red) probes for high-density material with banana plugs	Fluke-TP80	**1TC20**
Test Probe Leads	CAT IV 600V, CAT III 1000V	(1) Red and (1) Black Lead	TL76	**4XKU5**
Test Probe Leads	CAT IV 600V, CAT III 1000V	(2) Test Probes and (5) Sets of Replaceable Tips	TL910	**4XKW5**
Automotive Test Lead Kit	—	Mfr. No. TP81 Insulation Piercing Clip Set, Mfr. No. TL224 Suregrip(TM) Silicone Test Lead Set, Mfr. No. TP220 Suregrip(TM) Test Probe Set, Mfr. No. AC220 Suregrip(TM) Alligator Clip Set, Mfr. No. AC285 Suregrip(TM) Large Jaw Alligator Clip Set, Soft Case	TLK281	**4XKU7**

FLUKE.

Power Quality Troubleshooters

Additional accessories are available; call 1-800-GRAINGER (472-4643).

Rugged, reliable tools test power quality for troubleshooting, preventive maintenance, and analysis in industrial applications and utilities. PowerLog software included with select models allows data analysis, graphs, reports, and logging over time. Color LCD display.

FLUKE 437-II, 435-II, AND 434-II 3-PHASE TROUBLESHOOTERS

- Auto-trend automatically records every measurement without setup
- System monitoring: Up to 10 power quality parameters on 1 screen
- Inrush mode for troubleshooting nuisance circuit breaker tripping

Troubleshoot in real time: Cursors and zoom tools help analyze trends while background recording continues. Energy loss calculator quantifies classic active and reactive power measurements, unbalance, and harmonics to pinpoint the true dollar cost of system energy losses. No. 12Y317 measures up to 400 Hz to capture power quality measurements for avionic and military power systems. Nos. 12Y317 and 12Y316 capture transients up to 10µS. CAT IV 600V/CAT III 1000V safety rating for use at the service entrance. No. 12Y316 conducts tests according to the IEC 61000-4-30 Class A Standard.

FLUKE 345 POWER QUALITY CLAMP METER

- Clamp-on measurement of AC current up to 1400A RMS and DC current up to 2000A without breaking the circuit
- Troubleshoots harmonics with analysis and digital or graphical logs
- Inrush current: Captures and analyzes nuisance tripping, from 3 to 300 sec.

Accurate in noisy environments, even with distorted waveforms present on electronic loads with low-pass filter. Data logging identifies intermittent faults by logging any power parameters, including harmonics, for minutes or months. Includes PowerLog software. CAT IV 600V safety rating for use at the service entrance.



Fluke 435-II 3-Phase Troubleshooter No. 12Y316

Voltage Channels	Current Channels	Voltage Accuracy	Current Accuracy	Includes	Mfr. Model	Item No.
5	4	±0.1%	±0.5% +30 Digits	BC430 Power Adapter, International Plug Adapter Set, BP290 Single Capacity Li-ion Battery, 28 Wh (8 hr. or More), TL430 Test Lead and Alligator Clip Set, WC100 Color Coding Clips and Regional Decals, i430flex-TF-II, (4) 24"L Flexible Current Probes, 8 GB SD Card, PowerLog on CD, Operator Manuals In PDF Format, USB Cable A - Mini B, Hard Case with Rollers.	Fluke-437-II	**12Y317**
5	4	±0.1%	±0.5% +30 Digits	BC430 Power Adapter, International Plug Adapter Set, BP290 Single Capacity Li-ion Battery, 28 Wh (8 hr. or More), TL430 Test Lead and Alligator Clip Set, WC100 Color Coding Clips and Regional Decals, i430flex-TF-II, (4) 24"L Flexible Current Probes, 8 GB SD Card, PowerLog on CD, Operator Manuals In PDF Format, USB Cable A - Mini B C1740 Soft Case	Fluke-435-II	**12Y316**
5	4	±0.5%	±0.5% +30 Digits	BC430 Power Adapter, International Plug Adapter Set, BP290 Single Capacity Li-ion Battery, 28 Wh (8 hr. or More), TL430 Test Lead and Alligator Clip Set, WC100 Color Coding Clips and Regional Decals, i430flex-TF-II, (4) 24"L Flexible Current Probes, 8 GB SD Card, PowerLog on CD, Operator Manuals In PDF Format, USB Cable A - Mini B C1740 Soft Case	Fluke-434-II	**12Y315**
5	4	±0.1%	±0.5%	Power Adapter, International Plug Adapter Set, BP290 Single Capacity Li-ion Battery, 28 Wh (8 hr. or More), TLS430 Test Lead and Alligator Clip Set, WC100 Color Coding Clips and Regional Decals, i430flex-TF-II, (4) 24"L Flexible Current Probes, 8 GB SD Card, PowerLog on CD, Operator Manuals In PDF Format, USB Cable A - Mini B C1740 Soft Case	FLK-438-II/ WWG	**52KA91**
—	—	±3% Rdg +5 Digits	±1.5% Rdg +5 Digits	Soft Carrying Case, 2 Voltage Leads and Clips, Universal AC Adapter, Data Logging Software, Battery Pack and Instructions	Fluke-345	**1FBK2**

FLUKE.

Power Quality Recorder and Loggers

Additional accessories are available; call 1-800-GRAINGER (472-4643).

Rugged, reliable tools test power quality for preventive maintenance and long-term recording and analysis in industrial applications and utilities.

VOLTAGE RECORDER

Fluke VR1710 Voltage Event Recorder

- Records all values continuously with no gaps
- CAT II 300V

Easily pinpoints the root cause of 1-phase voltage problems. Plugs directly into main power socket to capture data for fast, easy recording of voltage trends, dropouts, and power quality. Saves testing time by simultaneously recording events and voltage. Includes USB interface cable and software.

3-PHASE ENERGY LOGGERS

NIST Certified.

Fluke 1732/B and 1734/B

Easy-to-use, 3-phase electrical energy loggers help find the sources of electrical energy waste. Loggers discover when and where energy in your facility is being consumed—from service entrances to individual circuits. Connect with other Fluke Connect devices to simultaneously log up to 2 other measurement parameters (log virtually any parameter available on a Fluke Connect wireless digital multimeter or module).

Fluke 1736

This power logger can employ the Fluke Connect® Mobile App and desktop software to help you respond in real time to critical power quality and energy consumption data. The instrument automatically captures and logs more than 500 power quality parameters for energy studies and power quality logging, to help you optimize system reliability and cost savings. Comes with voltage test leads, 4 alligator clips, four 1500A flexible current probes, WiFi® adapter, 3 line cords, color coding set, Fluke Energy Analyze Plus software on a USB flash drive, and soft case.



Fluke 1732/B No. 53YP71



Fluke VR1710 No. 2RUJ8

Display	Voltage Channels	Current Channels	Voltage Accuracy	Current Accuracy	RMS* Voltage	Mfr. Model	Item No.
Voltage Recorder							
Dual LED	2	—	±0.5%	—	±0.5% of Range (300V)	Fluke-VR1710	**2RUJ8**
3-Phase Energy Loggers							
Color LCD Touch Screen	4	4	±0.2%	±1%	—	Fluke-1736/EUS/WWG	**45LN71**
Color LCD Touch Screen	4	4	±0.2%	±1%	—	Fluke-1738/EUS/WWG	**45LN73**
Color LCD Touch Screen	4	5	0.20%	±1%	—	Fluke 1732/B	**53YP71**
Color LCD Touch Screen	4	3	0.20%	±1%	—	Fluke 1734/B	**53YP73**
Color LCD Touch Screen	4	5	0.20%	±0.01%	—	Fluke-1734/EUS	**53YP72**

**** Does not include additional error from plug-in current sensors.***

3-Phase Power Quality Recorders

EXTECH INSTRUMENTS DRANETZ



No. 4DKJ9

- Backlit LCD shows 35 parameters

Work with 1- and 3-phase systems (wye and delta). Programmable sampling rates. Log voltage, current, sags or surges, harmonics, energy, power factor, power, and frequency.

Note: Additional accessories are available on Grainger.com®; search for "power quality recorders accessories."

PQ3400 Series—Provide true RMS power measurements on displays that can be read in direct sunlight. Adjustable CT and PT ratios. Log up to 30,000 readings in Microsoft® Excel® format on a removable SD memory card for easy data transfer. Each includes 4 voltage leads with alligator clips, universal 100 to 240VAC adapter, case, and AA batteries. Cat III 600V.



No. 32ZN35

No. 15E579 graphical power and harmonics analyzer shows simultaneous harmonics and waveform with peak values. Phase diagram with 3-phase system parameters, 3-phase voltage or current unbalanced ratio (VUR, AUR), and unbalanced factor. Captures transient events with programmable % threshold.

- **Kit current capability up to 3000A, probe dependent (clamp probes sold separately)**
- 2 GB SD memory card

382100 Series—Provides simultaneous display of true RMS data. Adjustable CT and PT ratios. Includes three 1200A current clamps, 4 voltage leads with alligator clips, AC adapter, AA batteries, and case. CAT III 600V.

- Optically isolated RS-232 interface; USB adapter

PQ3350 Series—Provide clamp-on true RMS power measurements with simultaneous display. Adjustable CT and VT ratios. Measure 1- and 3-phase/3-wire or 3-phase/4-wire systems with datalogs (52,428 1-phase readings, 17,476 3-phase). Each includes 3 flexible clamp probes (1200A, 12" PQ3350-1; 3000A, 24" PQ3350-3), 4 voltage leads with alligator clips and retractable plunger clips, USB cable, software, AC adapter, case, and AA batteries. CAT III 600V.

- **Graphic phase diagram with 3-phase system parameters**
- **Peak capture**
- **Optically isolated USB interface**

Power Quality Recorders—The Dranetz HDPQ merges state-of-the-art power monitoring capabilities with excellent communication capabilities to provide users with an exceptional monitoring experience. Each instrument has a built-in 7" color widescreen LCD user interface for monitoring setup and data review. By putting operator safety first, the Dranetz HDPQ also enables users to review data and change settings remotely from virtually any Smartphone or Tablet mobile device, along with traditional PC and Mac laptops and desktops. Just hook up the instrument, close the cabinet doors to the "safe" the environment, and use either a free third party VNC App or the Dranetz HDPQ Apple® or Android™ App.

Kit Current Capability	Current Accuracy	Max. AC Amps	Calibration Frequency	Max. AC Voltage	Voltage Accuracy	Storage	Harmonic Capture Range	Mfr. Model	Item No.
Extech									
Power Analyzer/Datalogger									
—	±0.5% +5 Digits	3000A	60 Hz	600	±0.5%	30,000 Readings	—	PQ3450	**15E576**
1200A	±0.5% +30 digits	1200A	45 to 65 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	—	382100	**4DKJ9**
Power and Harmonics Analyzer									
—	±0.5% +5 Digits	3000A	60 Hz	600	±0.5%	30,000 Readings	—	PQ3470	**15E579**
1200A	±0.5% +30 Digits	1200A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1	**5WYU2**
1200A	±0.5% +30 Digits	1200A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1-NIST	**5WYU3** †
3000A	±0.5% +30 Digits	1200A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3	**5WYU4**
3000A	±0.5% +30 Digits	1200A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3-NIST	**5WYU5** †
Dranetz									
Power Quality Analyzer Kit									
1 to 10A	±0.1%	10	—	1000	±0.5%	4 GB	127/63	HDPQ-VA10PKG	**32HX93**
3 to 3000A	±0.1%	3000A	—	1000	±0.5%	4 GB	127/63	HDPQ-VAFLEX3KPKG	**32HX96**
—	±0.1%	—	—	1000	±0.1%	4 GB	127/63	HDPQ-X4APKG	**32HX99**
1 to 10A	±0.1%	10	45 to 65 Hz	1000	±0.1%	4 GB	127/63	HDPQ-XA10PKG	**32ZN32**
3 to 3000A	±0.1%	3000A	45 to 65 Hz	1000	±0.1%	4 GB	127/63	HDPQ-XAFLEX3KPKG	**32ZN35**
1 to 10A	±0.1%	10	45 to 65 Hz	1000	±0.1%	4 GB	127/63	HDPQ-GA10PKG	**32ZN24**
3 to 3000A	±0.1%	3000A	45 to 65 Hz	1000	±0.1%	4 GB	127/63	HDPQ-GAFLEX3KPKG	**32ZN27**

† NIST Certified.

1-Phase Loggers and Recorders

AEMC INSTRUMENTS EXTECH INSTRUMENTS



No. 2KGY1



No. 5LUT6

AEMC® CL601—Self-contained, data logging, true RMS AC clamp-on current logger offers simple 1-button operation with no exposed connections. 64 samples per cycle. Overload indication. Includes DataView® software, USB cable, and batteries.

- Jaw opening: 1.7"
- 5 LED indicators

AEMC L261—Provides continuous voltage recording for up to 8 wk. and real-time wave form viewing when connected to a PC. Sampling rate is programmable from ⅛ sec. to 1 in 24 hr. Has true RMS and DC voltage logging. Includes test leads, DataView software, interface cable, and batteries.

Extech® DL160—Can simultaneously measure 2 AC voltage inputs, 2 AC current inputs, or 1 each of AC voltage and AC current. Programmable sample rate from 1 sec. to 24 hr. Readings can be downloaded to a PC for analysis. Includes 2 current and 2 voltage sensor modules, 2 test leads, 2 alligator clips, software, USB cable, universal AC adapter, and batteries.

Extech DL150—Has programmable sample rate from 1 sec. to 24 hr., and true RMS readings to 600V or 200A. Data can be downloaded to a PC for analysis with included software. Includes current clamp, test leads, USB cable, universal AC adapter, and battery.

Voltage Range	Current Range	Voltage Accuracy	Min. Transient Duration	Storage	Interface	Power Source	Safety Rating	Mfr. Model	Item No.
AEMC									
0 to 600 AC/DC	—	±0.5%	0.259 uS	240,000 Readings	USB	(2) AA Batteries	CAT IV 300V, CAT III 600V	L261	**4PKE9**
—	0 to 600 A AC	—	—	240,000 Readings	USB	(2) AA Batteries	CAT IV 300V, CAT III 600V	CL601	**2KGY1**
Extech									
6 to 600VAC	10 to 200A AC	±1.5%	—	256,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL160	**5LUT7**
10 to 600VAC	10 to 200A AC	±1.5%	—	100,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL150	**5LUT6**

Navigator Series Power Quality Clamps

AMPROBE



ACDC-54NAV
No. 6NZJ0

- THD (total harmonics distortion): 0.1 to 100%
- Individual harmonics: 1 to 25th
- Power (W)
- Power factor: -1.00 to 1.00

A full range of diagnostic capabilities including phase sequence, power and power factor, total harmonics distortion and individual harmonics, inrush current, low-pass filter, and noncontact voltage detection.

Max. AC Amps	Max. DC Amps	Max. AC Volts	Voltage Accuracy	Temp. Range	Jaw Opening	Safety Rating	Mfr. Model	Item No.
600	—	1000	AC ±1.0% Rdg +5 Digits, DC ±0.7% Rdg +2 Digits	—	1.77"	CAT IV 600V, CAT III 1000V	ACD-50NAV	**6NZH6**
600	600	1000		—	1.77"		ACDC-52NAV	**6NZH8**
1000	1000	1000		-50° to 1832°F (-50° to 1000°C)	1.77"		ACDC-54NAV	**6NZJ0**

AEMC INSTRUMENTS | AMPROBE | SEAWARD GROUP USA | EXTECH INSTRUMENTS | Megger

Milliohm Meters and Micro-Ohm Meters

Measure resistance of motor coils, circuit breaker contacts, transformers, and printed circuit board layouts. Test leads have Kelvin clip connectors.

AEMC®—No. 5GTJ1 has a polarity reversal switch for bidirectional testing and features overload and input fuse protection. Stores up to 99 test results. DataView® software included.

Seaward Cropico—4-terminal measurement with automatic or manual current range selection and open circuit lead warning LED. No. 39N142 measures temp. from -50° to 800°C, with automatic temperature compensation.

Extech® No. 1XU20—High-resolution instrument provides 7 resistance ranges, with automatic zero and built-in comparator for Hi/Lo/Go resistance testing or selection.

Extech Nos. 4PC52 and 5ZR91—Precision testers feature manual zero display adjust and over-range indication.

Extech No. 1XU18—Overtemperature/overvoltage protection, plus invalid test indicators and Auto-Hold.

Megger® No. 4WXR6—Power limited ranges, high power outputs, and 10A duty cycle ranges, with high noise immunity and up to 600V protection between terminals.

Megger Nos. 1APD9 and 1APE1—Low-resistance testers average forward and reverse readings and provide manual current selection or automatic testing of contact resistance and bonds. No. 1APE1 features selectable high/low test limits and stores up to 700 time-stamped tests to download via RS-232 interface.


No. 6NZH3


No. 39N141


No. 1XU18


No. 4PC52


No. 4WXR6


No. 1APE1

Resistance Range	Resolution	Accuracy	Output Current	Display	Power Source	Safety Rating	NIST	Mfr. Model	Item No.
AEMC									
4 miliohm to 400 ohm	5 Milli Ohm to 400 Ohm	±0.25%	10mA to 10A	Backlit Dual Line LCD	NiMH Battery	CAT III 50V	No	6240	**5GTJ1**
Amprobe									
0 to 2000 ohm	100uΩ to 1Ω	±0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	MO-100	**6NZH3**
Cropico									
40 miliohm to 4000 ohm	10 Micro Ohm to 1 Ohm	±0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4000	**39N141**
40 miliohm to 4000 ohm	10 micro Ohm to 1 Ohm	±0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4001	**39N142**
4 miliohm to 400 ohm	1 Micor Ohm to 100 Milli Ohm	±0.05%	1mA to 1A	LCD	Battery	—	Yes	DO4002	**39N143**
Extech									
20 miliohm to 20 kilohm	0.01mΩ to 0.01KΩ	±0.2%	10uA to 1A	LED	120VAC 60Hz	—	No	380560	**1XU20**
200 miliohm to 2000 ohm	0.1Ω to 1Ω	±0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	380580	**1XU18**
200 miliohm to 2000 ohm	100uΩ to 1Ω	±0.75%	1mA to 100mA	LCD	120 VAC 60 Hz	—	No	380460	**4PC52**
200 miliohm to 2000 ohm	100uΩ to 1Ω	±0.75%	1mA to 100mA	LCD	120 VAC 60 Hz	—	Yes	380460-NIST	**5ZR91**
Megger									
0 to 2500 ohm	0.1uΩ	±0.2%	0.1mA to 10A	Backlit LCD	NiMH Battery or Line	CAT III 300 V	No	DLRO10HD	**4WXR6**
1.9999 miliohm to 1999.9 ohm	0.1uΩ to 100mΩ	±0.2%	100uA to 10A	LED	NiMH Battery	CAT III 600V	No	DLRO-10	**1APD9**
1.9999 miliohm to 1999.9 ohm	0.1uΩ to 100mΩ	±0.2%	100uA to 10A	Backlit LCD	NiMH Battery	CAT III 600V	No	DLRO-10X	**1APE1**

AMPROBE | EXTECH INSTRUMENTS | Megger

1kVDC Digital Megohmmeters

Each includes test leads and batteries.

Amprobe® No. 1WXG3—Programmable timer for dielectric absorption ratio test plus analog bar graph, internal data logging, and 2.5 times/sec. sampling rate.

Extech No. 1YB54—Stores up to 9 readings. Live circuit display warning and beeper. Automatic discharge of capacitive voltage charges.

Extech No. 1YB52—DC/AC voltage testing. Features continuity buzzer, low resistance function, data Hold and lock On.

Megger® No. 2MY34—Combines digital measurement with an analog arc for installation testing, preventive maintenance, and commissioning. Continuity buzzer.

Megger No. 2MY17—IP54 weather-resistant, with default voltmeter function, continuity buzzer, and live circuit protection.



No. 1WXG3



No. 1YB52



No. 2MY17

Output Test Voltage	Insulation Resistance Range	Live Circuit Detection	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
Amprobe										
250/500/1000VDC	4/40/400/4000 megohm	0 to 600VAC/DC	0 to 4000 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V	AMB-45	**1WXG3**
Extech										
250/500/1000VDC	0.001M to 10 gigohm	1 to 999VAC/DC	0.01 to 1k ohm	Digital LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380363	**1YB54**
250/500/1000VDC	200 megohm, 1000 megohm, 2000 megohm	750VAC/1000VDC	200 ohm, 200 kilohm	LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380260	**1YB52**
Megger										
250/500/1000VDC	10K to 1000 megohm	0 to 600VAC/DC	0 to 100 ohm	Digital LCD	Yes	Yes	(6) AA Batteries	CAT III 600V	MIT230	**2MY34**
250/500/1000VDC	10K to 1000 megohm	0 to 600VAC/DC	0 to 99.9 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V, CAT IV 300V	MIT310	**2MY17**

GA GRAINGER APPROVED | Megger

Digital Megohmmeters with Built-In Multimeter

Each includes test leads, alligator clips, and batteries.

GA No. 5URG2—DC/AC voltage testing. Has short circuit current protection and high voltage warning, polarization index (PI), dielectric absorption radio (DAR), comparison function, data logging, sleep mode, and timer. USB compatible.

Megger® Nos. 49AG72 and 49AG74—DC/AC true RMS voltage testing with stabilized test voltage for fast, accurate measurements. Feature high insulation range and digital/analog arc display.

No. 49AG74 has PI and DAR tests, plus variable test voltage. Stores more than 1000 test results.


No. 5URG2

Output Test Voltage	Insulation Resistance Range	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
GA									
100/250/500/1000VDC	0.1M to 10 gigohm	0.1 to 999.9 ohm	Backlit LCD with Bar Graph	Yes	Yes	1.5V Battery	CAT III 600V	—	**5URG2**
Megger									
50/100/250/500/1000VDC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT420/2	**49AG74**
250/500/1000VDC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT400/2	**49AG72**


No. 6NZF7

5k/10kVDC Output Megohmmeters and Voltage Tester

AMPROBE EXTECH INSTRUMENTS Megger


No. 21YE32


No. 40D468

Amprobe® No. 6NZF7—Automatically calculates PI (polarization index), DD (dielectric discharge), and DAR (dielectric absorption ratio). Step voltage tests. Noise (EMI) rejection filters, real-time graphs, and simultaneous display of all parameters. 1-sec. to 30-min. tests; 1000-test storage. Includes cables, shielded test leads, alligator set, test lead, software, and USB and RS-232 cables.

Extech® No. 21YE32—High-contrast OLED display with PI and DAR measurement. EnerSave™ limits test duration to save energy. Built-in heavy-duty carrying case with cover. Includes test leads.

Megger® MIT 400 Series—Insulation testing, capacitance measurement, TRMS and DC voltage measurement, PI, and DAR. Analog arc and dual-digital display. Timer function, pass/fail limit alarms, test button, and auto power down. Silicone lead set with clips. No. 49AG75 has Bluetooth® wireless data transfer and storage.

Megger No. 40D467—Automatically calculates PI and DAR. High noise immunity with specified guard terminal. 1000V protection between all terminals. Separate AC/DC voltage range with Hz. Locking/touch-proof test leads and tough dual case.

Megger Nos. 40D468 and 40D469—Automatically calculate PI, DAR, DD, and stepped voltage (SV). With 1000V protection and high noise immunity with specified guard terminal. Store date/time/temperature-stamped results with software. Separate AC/DC voltage range with Hz. Locking/touch-proof test leads, line supply, and dual case.

Megger No. 36MG30—Automatically performs PI, DAR tests. Separate AC/DC voltage range with Hz. Includes locking/touchproof test leads.

Megger No. 30KA05—Performs IR, timed IR, PI, DAR, DD, SV, and ramp test, with dedicated voltmeter function, high short circuit current, and high noise immunity. Stores results and data log for onscreen recall or transfer to PC. Double-insulated test leads. IP65 dust- and moisture-resistant dual case is fire-retardant.

Output Test Voltage	Insulation Resistance Range	Capacitance Range	Live Circuit Detection	Data Logging	Auto Ranging	Auto Power Off	Display	Power Source	Safety Rating	Mfr. Model	Item No.
Amprobe											
250 to 5000VDC	10 teraohm	0 to 99.9, 100 to 999 nF and 1 to 50 uF	No	1000 Data Points	Yes	No	LCD	Dual, External Power Source and Batteries	CAT IV 600V	AMB-55	**6NZF7**
Extech											
500 to 10,000VDC	800 killohm to 500 gigohm	—	Yes	No	No	Yes	LCD	(8) C Batteries	CAT III 300V	MG500	**21YE32**
Megger											
50/100/250/500/1000VDC	0 to 200 gigohm	—	Yes	No	Yes	Yes	Backlit LCD	(6) AA Batteries	CAT IV 600V	MIT410/2	**49AG73**
50/100/250/500/1000VDC	0 to 200 gigohm	0.1 nF to 10 uF	Yes	1000 Data Points	Yes	Yes	Backlit LCD	(6) AA Batteries	CAT IV 600V	MIT430/2	**49AG75**
50 to 5000VDC	10 teraohm	10 to 25 uF	Yes	No	Yes	Yes	LCD	Line or Battery	IEC61326-1 CATIV 600V	MIT515	**40D467**
50 to 5000VDC	10 teraohm	10 to 25 uF	Yes	Yes	Yes	Yes	LCD	Line or Battery	IEC61326-1 CAT IV 600V	MIT525	**40D468**
50 to 10,000VDC	20 teraohm	10 to 25 uF	Yes	Yes	Yes	Yes	LCD	Line or Battery	IEC61326-1 CAT IV 600V	MIT1025	**40D469**
250/500/1000/2500/5000VDC	100k ohm to 1T ohm	—	Yes	No	Yes	Yes	Digital/ Analog LCD	(8) AA Batteries	CAT III 600V	BM5200	**36MG30**
1000/15,000VDC	30T ohm	10 nF to 50 uF	Yes	Yes	Yes	Yes	Digital/Analog Backlit LCD	Line or Battery	CAT IV 1000V, IEC 61010-1	MIT1525	**30KA05**

Analog Megohmmeters

AEMC INSTRUMENTS EXTECH INSTRUMENTS Megger SUPPLIER DIVERSITY Simpson Supco UEi TEST INSTRUMENTS


No. 6YPR4


No. 9XJ79


No. 3T841


No. 4CWN9


No. 3T105


No. 46MV77

AEMC® No. 6YPR4—Test voltages up to 1000V, 5000MΩ. Brushless alternator with solid-state rectifier, automatic discharge, folding crank, guard and ground terminal. Steady test voltage output across entire range. Designed for harsh environments, the case seals out rain, water, and dust.

Extech® No. 9XJ79—Fuse-protected meter with 3 test voltages, automatic discharge circuit, lock On, 1.3mA short circuit current, and continuity and resistance testing. Includes test leads with alligator clips, carrying case, and batteries. CAT III 1000V.

Megger® Nos. 3T841 and 3T843—Feature automatic discharge and guard terminal. No. 3T841 is lightweight—only 2.25 lb.—with an impact-resistant housing. Safety check, AC voltage range. Use No. 3T843 for high-resistance insulation testing.

Simpson® Electric No. 4CWN9—High-voltage (to 2000V) insulation tester features 8 test voltages, automatic discharge, AC/DC voltmeter, LED indicators, and lock On testing. Complete with test probes, permanently attached cables, 2 alligator clips, plug-in battery module, batteries, and carrying case.

Supco® No. 3T105—Includes test leads with alligator clips and carrying case. Requires 2 C batteries (not included).

UEi Test Instruments™ No. 46MV77—Hand-crank tester measures 100V, 500V, and 250V output ranges with 1-division accuracy. Damping time is more than 4 sec. Rugged sealed, water-resistant metal housing. Includes test leads.

Description	Live Circuit Detection	Insulation Resistance Range	Display	Power Source	Auto Ranging	Safety Rating	Mfr. Model	Item No.
AEMC								
Hand Cranked Megohmmeter	0 to 600VAC/DC	1 to 5000 megohm	Analog	Crank	Yes	CAT II 600V, CAT III 300V	6503	**6YPR4**
Extech								
Battery Operated Megohmmeter	0 to 600VAC	100/200/400 megohm	Analog	(6) AA Batteries	No	CAT III 1000V	380320	**9XJ79**
Megger								
Hand Cranked Megohmmeter	0 to 600VAC/DC	2000 megohm	Analog	—	No	—	MJ159	**3T841**
Hand Cranked Megohmmeter	0 to 600VAC/DC	2000/5000/10,000/20,000 megohm	Analog	—	No	—	210170	**3T843**
Simpson Electric								
Battery Operated Megohmmeter	0 to 2000VAC/DC	10K to 1 teraohm	Analog	(6) D Batteries	No	—	12505	**4CWN9**
Supco								
Line Powered Megohmmeter	—	20 to 1000 megohm	LED	—	No	—	M500	**3T105**
UEi Test Instruments								
Hand Cranked Megohmmeter Insulation Resistance Tester	0 to 1000VAC/DC	0 to 1000 megohms	Analog	Crank	No	—	IRT20	**46MV77**

Compact Digital Insulation Tester

EXTECH INSTRUMENTS



Troubleshooting tester has a wide measurement range (up to 1000V) and insulation resistance. Offers polarization index (PI), dielectric absorption ratio (DAR), 30V to 600VAC voltage, 10MΩ internal resistance test, low resistance (with zero function), and audible continuity. High voltage and overload indicators. Auto-discharge and voltage output warning functions. Backlit 2000-count dual display. 6" x 4" x 2.8", 1½-lb. housing. Includes test leads, alligator clips, batteries, snap-on protective hard cover, and soft pouch.

Output Test Voltage	Insulation Resistance Range	Live Circuit Detection	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
250/500/1000VDC	0 to 5G Ohms	0 to 600VAC	0 to 200 ohm	Backlit LCD	No	Yes	(6) AA Batteries	CAT III 600V	MG310	**45ZA06**

Motor Rotation Indicators and Testers

AEMC® INSTRUMENTS | AMPROBE | EXTECH® INSTRUMENTS | Megger | UEi TEST INSTRUMENTS

Devices help ensure correct motor/pump installation by identifying the phases and CW/CCW rotation, to prevent damage to the motor or electrical system.

AEMC® Phase Sequence Tester—Detects open or de-energized phases. Determines correct wiring for proper rotation. Color-coded leads and black alligator clips. Line powered; no battery required.

Amprobe® Phase Sequence Motor Rotation Tester—Tests power sources and motors, using test leads or wirelessly. L1/L2/L3 inputs. Convenient error display. Test leads, probes, alligator clips, carrying case, and AAA batteries.

Extech® Noncontact Phase Sequence Tester—Checks phase sequence and status on 3-phase power sources. Beeper indicates phase detected and if it is reversed. 3 built-in, 30" test leads have color-coded, fully insulated alligator clips. Case and AA batteries.

Extech Phase and Motor Rotation Tester—Checks phase orientation on 3-phase power sources and shows motor rotation. Indicates phase sequence and status.

Extech Phase Sequence Tester—Phase orientation on 3-phase power sources. Graphical and multiline indication. No battery required.

Megger® Phase and Motor Rotation Tester—Tests phase sequence and rotation, motor rotation, and transformer polarity without having to first energize the motor. Fuse-protected test leads, spare fuses, and battery.

UEi Test Instruments™ Hermetic Compressor Analyzer—Indicates motor winding continuity and ground faults. Breakout jacks for voltage and resistance, 3 ranges of 250VAC, dual AC voltage operation, and reverse motor option.


No. 5GTK3


No. 13X083


No. 40PC49


No. 1TZP7


No. 3T838


No. 8GJC7

Item	Voltage Range	Display	Motor Rotation	Phase Rotation	Phase Voltage Present Indicator	Safety Rating	Mfr. Model	Item No.
AEMC								
Phase Sequence Tester	40 to 850VAC	LCD	No	Yes	Yes	CAT III 600V	6608	**5GTK3**
Amprobe								
Phase Sequence Motor Rotation Tester	40 to 700VAC	LCD	Yes	Yes	No	CAT IV 600V	PRM-6	**40PC49**
Extech								
Non-Contact Phase Sequence Tester	75 to 1000VAC	LED	No	Yes	Yes	CAT III 1000V, CAT IV 600V	PRT200	**13X083**
Phase And Motor Rotation Tester	40 to 600VAC	LED	Yes	Yes	Yes	CAT III 600V	480403	**1TZP7**
Phase Sequence Tester	40 to 600VAC	Multiline LCD	No	Yes	Yes	CAT III 600V, CAT IV 300V	480400	**1TZP6**
Megger								
Phase And Motor Rotation Tester	Up to 600VAC	Analog Meter	Yes	Yes	Yes	—	560060	**3T838**
UEI Test Instruments								
Hermetic Compressor Analyzer	—	LED	No	No	No	—	HA1	**8GJC7**

Earth/Ground Resistance Testers

EXTECH® INSTRUMENTS | Megger | AEMC® INSTRUMENTS | AMPROBE

Each includes carrying case and batteries.

Extech® Autoranging Clamp-On Tester 382357—Measures resistance current from 0.2mA to 30A. Programmable data logging with 116 data points. Automatic self-calibration, high/low alarms, and 9999-count LCD. Resistance check plate.

Megger® Autoranging Clamp-On Tester DET24C—Measures resistance current from 0.5mA to 35A and true RMS ground leakage current up to 35A RMS. Stores up to 2000 date- and time-stamped records. Electric noise filter, intelligent data hold, resistance and current alarms, and Bluetooth® download capability. Includes calibration check, wrist strap, and software.

AEMC® Autoranging Tester 4620—2- to 4-point ground resistance tester is fuse-protected to 250VAC. All error conditions are listed on the front panel, including low battery, overrange, and test lead shorts and lead reversals. Requires ground kit.

Amprobe® Autoranging GP-2A—3-point (fall of potential) or 2-point tests. Automatically calculates earth resistivity (4-point test). Automatically applies 3 testing frequencies for the most accurate reading. Holds 999 readings, with RS-232 for download to a PC. Includes test leads, auxiliary electrodes, and software for instrument autoranging.

Extech 4-Wire GRT300—Autoranging tester with automatic zero adjustment measures resistance current less than 2mA. Performs 4-, 3-, and 2-wire testing with automatic I (current) and P (potential) spike checks. AC earth voltage, test hold, data hold, and overrange and low battery indication. Includes test leads with alligator clips and 4 auxiliary earth bars. Pollution degree 2.

Megger 1-Button DET3TC—Ground rod and grid testing and noise rejection to 40V. Measures ground resistance without disconnect when used with clamp No. 2MY26, sold separately on Grainger.com®. IP54 weather-resistant. Includes probe and wire test kit.

Extech 3-Range Kit 382252—Measures earth/ground resistance in 3 ranges. Hold, auto-zero, Auto-Off, and overload protection. Indicates overrange and low battery. Includes test leads, 2 auxiliary earth bars, and rubber holster.


No. 1YB44


No. 4GA30


No. 46AN65


No. 24K395


No. 9XKP5

Ground Resistance Range	Accuracy	Res.	Operating Frequency	Power Source	Display	Safety Rating	Brand	Mfr. Model	Item No.
Clamp On Earth Resistance Testers									
0.025 to 1500 ohm	±1.5% Of Reading ±0.1	0.002Ω	3333 Hz	9V	Digital LCD	CAT III 300V, CAT II 600V	Extech	382357	**1YB44**
0.050 to 1500 ohm	±1.5% ±0.05 ohm	0.01 ohm	1390 Hz	(1) AA Batteries	Digital LCD	CAT IV 600V	Megger	DET24C	**46AN65**
	Low Range ±1.5%, High Range ±35%	0.01 to 10Ω	1390 Hz	—	Digital LCD	IP30, EN 61010-2-032 & CATIV 600V Polution Degree 2	Megger	DET14C	**6MRN4**
Earth Ground Testers									
0 to 2000 ohm	2% of Reading ±1 Count	0.01 to 1Ω	128 Hz	(8) C Batteries	Digital LCD	CAT III 30V	AEMC	4620	**4GA30**
0.01 to 19.99 ohm/199.9 ohm/1999 ohm/19.99kilohm/49.9kilohm	±2% of Reading ±2 LSD	0.01 to 1Ω	77.5 Hz	—	LCD	CAT III 240V	Amprobe	GP-2A	**24K395**
0.002/0.02/0.2/2 kilohm	±2% of Reading ±3 Digits	0.001 to 1kΩ	820 Hz	(8) AA Batteries	Dual Line LCD	CAT IV 300V	Extech	GRT300	**13X132**
0.00001 to 2 kilohm			128 Hz	(8) AA Batteries	Digital LCD	CAT IV 100V	Megger	DET3TC	**2MY25**
Earth Ground Tester Kit									
0.02/0.2/2 kilohm	±0.8% of Reading ±3 Digits	0.01Ω	820 Hz	(6) AA Batteries	Digital LCD	CAT III 1000V	Extech	382252	**9XKP5**

Transformer Turns Ratio Tester

Megger

Handheld instrument designed for use in harsh conditions tests 1- and 3-phase distribution and power transformers (phase by phase), potential and current transformers, and voltage regulators. Measures excitation current and polarity. Excitation voltage range: automatic 8VAC for distribution, power, or potential transformers; 0.5, 1.5, or 8VAC for current transformers. RS-232 port. Includes 6-ft. winding leads, pouch, and AA batteries.



Excitation Current Range	Turns Ratio Range	Accuracy	Mfr. Model	Item No.
0 to 100 mA	0.8 to 10,000	±0.2 to 0.25% Range Dependent	TTR20-1	**3GZX6**

Insulation and Leakage Testing Basics

Equipment—including motors, drives, cables, and transformers—relies on insulation for proper operation. In insulation testing, a relatively high DC voltage is used to make leakage current more apparent (similar to pressure testing a plumbing system). Although instruments supply high voltage, the current delivered is strictly limited to protect machinery and ensure operator safety.

Most digital multimeters have a resistance measurement capability, but this function uses just a few volts. What's needed is to test the insulation at a higher voltage than working voltage. This will ensure that any leakage will show up, and if there is a potential for arcing it will occur under controlled test conditions. If testing above the working voltage is not possible, insulation resistance can be determined by measuring leakage current directly with a leakage clamp meter.



No. 1BE65



No. 45ZA03



No. 5NLK7



No. 45ZA04

Insulation and Leakage Testers

FLUKE

Rugged and reliable testers are designed for troubleshooting and preventive maintenance applications. 1k to 10kVDC output tests insulation beyond working voltage and ensures that leakage and arcing are identified in a controlled testing environment.

FLUKE 1507/1503 MEGOHMMETERS

- Earth bond resistance measurement verifies grounding integrity

Insulation testers have a remote test probe that simplifies repetitive or hard-to-reach testing. No. 1BE65 has a CAT III 1000V, CAT IV 600V safety rating; No. 1BE68 has CAT III 600V. No. 1BE65 autocalculates polarization index (PI) and dielectric absorption ratio (DAR), saving time and money. Its pass/fail compare function enables repetitive tests.

FLUKE 1555/1550C MEGOHMMETERS

- Selectable test voltages: 50V increments from 250V to 1000V, 100V increments above 1000V
- Autocalculate polarization index (PI) and dielectric absorption ratio (DAR) with no additional setup
- Guard system prevents leakage current effect on high-resistance measurements
- Capacitance and leakage current measurement
- Ramp function for breakdown testing

Provide digital insulation testing up to 10,000V (1555) or 5000V (1550C)—the entire range of test voltages specified in IEEE 43-2000. Test a wide range of high-voltage equipment, including switchgear, motors, generators, and cables. Store up to 99 measurements with user-defined labels, with a PC interface for preventive or predictive maintenance programs. No. 5NLK9 includes heavy-duty alligator clips. Kits add NIST certificate of calibration, IP67 case, and heavy-duty alligator clips for 1550C. Instruments have CAT III 1000V, CAT IV 600V safety rating.

FLUKE 1587/1577 INSULATION TESTERS

- Autodischarge capacitive voltage
- AC/DC voltage, DC mV, AC/DC mA, resistance, and continuity

Instruments provide 2 powerful tools in 1—a multimeter and an insulation tester. Model 1587 No. 1BE59 adds capacitance, diode test, temp., min./max., frequency, and low-pass filter. Both have CAT III 1000V, CAT IV 600V safety rating.

FLUKE 1587FC/MDT ADVANCED MOTOR AND DRIVE KIT

- Polarization index (PI) with dielectric absorption ratio (DAR)
- Memory storage and temperature compensation through mobile app
- Bluetooth interface

Digital LCD (backlit), remote probe, contact temperature probe, phase rotation indicator, and VFD low-pass filter. Kit includes Fluke 1587FC Insulation Multimeter (No. 45ZA03), Fluke i400 Current Clamp (No. 4YE82), and Fluke 62 Max +IR Thermometer (No. 16X950). Instruments have CAT III 1000V, CAT IV 600V rating.

Insulation Resistance Range	Resistance Range	Output Test Voltage	Multimeter Functionality	Live Circuit Detection	Capacitance Range	Manufacturers Warranty	Mfr. Model	Item No.	
Battery Operated Megohmmeters									
0.01M to 10 gigohm	0 to 20 kilohm	50/100/250/500/1000VDC	No	Greater Than 30V	—	1 yr.	Fluke-1507	**1BE65**	
0.1 to 2000 megohm	0 to 20 kilohm	500/1000VDC	No	Greater Than 30V	—	1 yr.	Fluke-1503	**1BE68**	
2 teraohm	—	50 to 10,000VDC	No	Greater Than 30V	0.01 to 15 uF	3 yr.	Fluke-1555/KIT	**5NLL0**	*
1 teraohm	—	50 to 5000VDC	No	Greater Than 30V	0.01 to 15 uF	3 yr.	Fluke-1550C	**5NLK7**	*
1 teraohm	—	50 to 5000VDC	No	Greater Than 30V	0.01 to 15 uF	3 yr.	Fluke-1550C/KIT	**5NLK8**	*
2 teraohm	—	50 to 10,000VDC	No	Greater Than 30V	0.01 to 15 uF	3 yr.	Fluke-1555	**5NLK9**	*
Insulation Multimeter									
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000VDC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr.	FLUKE-1587FC	**45ZA03**	
Insulation Tester									
0.1 megohm to 600 megohm	0 to 50 megohm	500/1000VDC	Yes	1000VAC/DC	—	3 yr.	Fluke-1577	**1BE62**	
Advanced Motor and Drive Kit									
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000VDC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr.	FLK-1587MDT FC/WWG	**45ZA04**	
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000VDC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr.	1587/62MAX+FC/WWG	**45ZA05**	

**** Compatible with Fluke Connect® technology.***

Vibration Testers

FLUKE

Vibration measurement and evaluation is one of the best ways to assess the condition of rotating machinery. These vibration testers make machine condition evaluation fast and simple for frontline technicians by providing onboard identification and severity of the most common mechanical faults: bearing impacting, shaft misalignment, looseness, and unbalance. Fault conditions are categorized as slight, moderate, serious, or extreme to help prioritize corrective actions.

FLUKE 810 VIBRATION TESTER

Compares machine vibration signatures to a database of hundreds of thousands of machines of many types, sizes, and configurations, to produce an instant diagnosis and severity without the need to build-up measurement baselines over time. Includes laser tachometer, tri-axial accelerometer with magnet, viewer PC software, training DVD, smart battery pack with charger. 3-yr. warranty.

FLUKE 805 FC VIBRATION METER

This Fluke Connect®-enabled wireless meter monitors machine condition with direct-measurement sensor tip, noncontact IR temperature sensor, and connector for external magnetic sensor accessory.



Fluke 805FC
No. 39UL62



Fluke 810
No. 5AER8

Description	Frequency Range (Hz)	Accel. Range	Mfr. Model	Item No.
Vibration Testers				
Vibration Tester	2 Hz to 20 k	0 to 80g Peak	Fluke-810	**5AER8**
Vibration Meter	10 to 1000/4000 to 20,000	0 to 50g	FLUKE-805 FC	**39UL62**
Fluke 810 Replacement Accessories				
Smart Battery Pack	—	—	SBP810	**5NLL8**
Noncontact Tachometer Probe	—	—	810T	**5TDG3**
Vibration Tester Sensor	Z Axis 2 to 7000 Hz ±3dB, X Axis 2 to 5000 Hz ±3dB, Y Axis 2 to 5000 Hz ±3dB	80 g Peak	810S	**5NLL7**
Quick Disconnect Cable	—	—	810QDC	**5TDG4**
Vibration Sensor Mounting Pads	—	—	810SMP	**5NLL9**

FLUKE

Earth/Ground Testers

Provide frontline troubleshooting and in-depth soil analysis—a complete solution for utilities, electrical contractors, industrial facilities, telecom, and data centers. Each includes required connections, leads, and hard case. Genuine Fluke® accessories are available; on Grainger.com®, search for "earth ground tester acc".

FLUKE 1623-2 AND 1625-2

Designed with 3- and 4-pole fall of potential and 4-pole soil resistivity testing. Also features selective earth ground rod testing using 1 clamp and stakeless earth ground rod testing using 2 clamps. No. 30JZ61 features automatic frequency control that identifies existing interference and selects a measurement frequency to minimize its effect; provides more accurate earth ground value. Also calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault to earth ground would see. Includes adjustable limits for faster testing. Kits Nos. 30JZ58 and 30JZ59 include 4 stakes, 3 wire spools, 2 clamps, cables, batteries, manual, and carrying case.

FLUKE 1621 BASIC EARTH/GROUND TESTER

- **Adjustable limits for fast testing**
- **Autochecks for noise voltage, with alert before testing**

The multimeter-like form is rugged and portable.



No. 30JZ58



No. 2FTY7



No. 30JZ62



No. 30JZ69

Earth Measurement Poles	Measuring Voltage	Operating Frequency	Earth Measurement Clamps	Soil Resistivity	Mfr. Model	Item No.
Earth Ground Tester Kits						
3, 4	Less Than 48	128 Hz	Selective, Stakeless	Yes	FLUKE-1623-2 KIT	**30JZ58**
2, 3, 4 (AC), 2, 4 (DC)	Less Than 20	94/105/111/128 Hz	Selective, Stakeless	Yes	FLUKE-1625-2 KIT	**30JZ59**
Earth Ground Testers						
3, 4	Less Than 48	128 Hz	No	Yes	FLUKE-1623-2	**30JZ60**
2, 3, 4 (AC), 2, 4 (DC)	Less Than 20	94/105/111/128 Hz	No	Yes	FLUKE-1625-2	**30JZ61**
23	Less Than 48	128 Hz	—	No	Fluke-1621	**2FTY7**

Item	For Use With	Includes	Mfr. Model	Item No.
Accessories				
Earth Stake	Mfr. No. Fluke-1623-2, Fluke-1625-2	—	EARTH STAKE	**30JZ62**
Stake Accessory Kit	Mfr. No. Fluke-1623-2, Fluke-1625-2	(1) 25m Blue Cable with Reel, (1) 50m Red Cable with Reel, (3) Earth Stakes	ES-162P3-2	**30JZ67**
	Mfr. No. Fluke-1623-2, Fluke-1625-2	(1) 25m Blue Cable with Reel, (1) 25m Green Cable with Reel, (1) 50m Red Cable with Reel, (4) Earth Stakes	ES-162P4-2	**30JZ68**
Cable Reel Accessory	Mfr. No. Fluke-1623-2, Fluke-1625-2	25m Blue Cable	CABLE REEL 25M BL	**30JZ63**
	Mfr. No. Fluke-1623-2, Fluke-1625-2	25m Green Cable	CABLE REEL 25M GR	**30JZ64**
	Mfr. No. Fluke-1623-2, Fluke-1625-2	50m Red Cable	CABLE REEL 50M RD	**30JZ65**
Pylon Clamp Kit	Mfr. No. Fluke-1625-2	Split Core Transformer Clamp, (2) Fasteners, Hard Carrying Case, Manual, Test Lead	EI-162BN	**30JZ69**
Carrying Case	Mfr. No. Fluke-1623-2, Fluke-1625-2	—	C1620	**30JZ66**

Scan. Order. Done.
Details on page A1.



No. 6WZP4



No. 42X223



No. 48JP64

FLUKE

Portable Oscilloscopes

Connect-and-View™ automatic triggering captures complex signals. TrendPlot™ paperless recorder mode extends trend analysis up to 22 days. 5 versions of each model are complete kits that include FlukeView ScopeMeter software and hard carrying case. NIST versions include calibration certificates.

Note: Additional accessories are available on Grainger.com®; search for "fluke oscilloscope accessories."

FLUKE 190 SERIES

- DMM and paperless recording modes
- Color display
- Safety rating: CAT III 1000V, CAT IV 600V, with isolated floating inputs

Rugged instruments combine oscilloscope and digital multimeter (DMM) functionality in a single housing, for use in harsh environments. 60-, 100-, 200-, and 500-MHz oscilloscopes provide up to 2.5G samples per sec. (Sa/s) with advanced triggering, waveform measurement, and analysis. They feature 2- and 4-channel input. Each includes shielded 10:1V test lead, ground lead, 2 hook clips, 3 alligator clips, banana-to-BNC adapter, rechargeable Li-ion battery pack, and charger.

COMPACT SCOPEMETER® 120B SERIES

- Paperless recording
- Safety rating: CAT IV 600 V

5,000-count True-RMS digital multimeters combine an oscilloscope, multimeter, and paperless recorder in a rugged, IP51 housing for use in harsh environments. They integrate with the Fluke Connect® mobile app and FlukeView® for ScopeMeter software for easier collaboration, enhanced data analysis, and improved critical test information archiving. Fluke 125 models also perform harmonics and bus health test. Complete kit contents are listed on Grainger.com®.MDA-500 Series Motor Drive Analyzers

- Built-in report generator
- Color display
- Safety rating: CAT III 1000V, CAT IV 600V

Portable Motor-Drive Analyzers help ease troubleshooting for inverter-type motor drive systems, with guided testing and preset measurement profiles to make sure that you have the data that you need. Measure key motor-drive parameters, perform extended harmonics measurements, conduct guided measurements, and create reports all with a single tool. Graphical step-by-step voltage and current connection diagrams ease set-up.

Bandwidth (MHz)	Sampling Rate	Channels	NIST	Battery Life	Safety Rating	Mfr. Model	Item No.
Compact ScopeMeter® 120B Series							
Automatic Connect and View, Edge							
20	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-123B/WWG	**48JP64**
40	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-124B/WWG	**48JP65**
40	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-125B/WWG	**48JP66**
Compact ScopeMeter® 120B Series with Kit							
Automatic Connect and View, Edge							
20	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-123BS/WWG	**48JP67**
40	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-124BS/WWG	**48JP68**
40	40 MS/s	2	No	7 hr.	CAT IV 600V	FLUKE-125BS/WWG	**48JP69**
MDA-500 Series Motor Drive Analyzers							
Automatic Connect-and-View™, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video Line, Selectable Pulsewidth (Channel A Only), N-Cycle							
500	5 GS/s	4	No	—	CAT III 1000V / CAT IV 600V	Fluke-MDA-510	**493V10**
500	5 GS/s	4	No	—	CAT III 1000V / CAT IV 600V	Fluke-MDA-550	**493V11**
ScopeMeter® 190 Series II							
Automatic Connect-and-View™, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video Line, Selectable Pulsewidth (Channel A Only), N-Cycle							
100	1.25 GS/s	4	No	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-104	**6WZP8**
100	1.25 GS/s	4	Yes	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-104/CWG	**6WZP9**
200	2.5 GS/s	4	Yes	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-204/CWG	**6WZP5**
500	5 GS/s	2	No	Up to 4 Hr	CAT III 1000V / CAT IV 600V	FLUKE-190-502	**42X223**
Automatic Connect-and-View™, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video Line, Selectable Pulsewidth (Channel A Only), N-Cycle							
60	1.25 MS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-062	**13G587**
100	1.25 GS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-102	**13G583**
100	1.25 GS/s	2	Yes	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-102/CWG	**13G584**
200	2.5 GS/s	4	No	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-204	**6WZP4**
200	2.5 GS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-202	**13G579**
200	2.5 GS/s	2	Yes	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-202/CWG	**13G580**
ScopeMeter® 190 Series II with SCC-290 Kit							
Automatic Connect-and-View™, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video Line, Selectable Pulsewidth (Channel A Only), N-Cycle							
100	1.25 GS/s	4	No	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-104S	**6WZR0**
200	2.5 GS/s	4	No	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-204S	**6WZP6**
200	2.5 GS/s	4	Yes	Up to 7 hrs	CAT III 1000V / CAT IV 600V	Fluke-190-204S/CWG	**6WZP7**
500	5 GS/s	2	No	Up to 4 Hr	CAT III 1000V / CAT IV 600V	FLUKE-190-502S	**42X224**
Automatic Connect-and-View™, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video Line, Selectable Pulsewidth (Channel A Only), N-Cycle							
60	1.25 MS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-062S	**13G589**
100	1.25 GS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-102S	**13G585**
200	2.5 GS/s	2	No	Up to 4hrs	CAT III 1000V / CAT IV 600V	Fluke-190-202S	**13G581**

Description	Mfr. Model	Item No.
Accessories		
AC/DC Current Clamp, 100 MHz	I30S	**2ATY3**
190 Series Replacement Battery	BP190	**4YV70**
120 Series Replacement Battery	BP120MH	**2EWV6**
Voltage Probe, 500 MHz, 300V, Red	VPS510-R	**42X225**
Voltage Probe, 500 MHz, 300V, Gray	VPS510-G	**42X226**
Voltage Probe, 500 MHz, 300V, Blue	VPS510-B	**42X227**
Voltage Probe, 500 MHz, 300V, Green	VPS510-V	**42X228**
Voltage Probe, 500 MHz, 1000V, Red	VPS410-II-R	**42X231**
Voltage Probe, 500 MHz, 1000V, Gray	VPS410-II-G	**42X232**
Voltage Probe, 500 MHz, 1000V, Blue	VPS410-II-B	**42X233**
Voltage Probe, 500 MHz, 1000V, Green	VPS410-II-V	**42X234**



No. 1CXH6



No. 2GMH3



No. 1CXJ1

FLUKE

Bench Digital Multimeters

- 2 x 4-wire, precision 4-wire resistance measurement technique
- Dual readings for interrelated measurements
- Interface ports for data capture to PC

Handle demanding measurements on a workbench or in a system. Each includes test leads, power cord, and spare line power fuse.

Description	Mfr. Model	Item No.
Accessory		
2x4 Wire Ohms 1000V Test Leads	TL2X4W-PTII	**1CXJ1**

FLUKE 8846A

- 6.5-digit resolution, up to 0.0025% accuracy
- Graphical display analysis modes with TrendPlot™, statistics, and histogram
- Includes USB memory device port

FLUKE 8808A

- 5.5-digit resolution, up to 0.015% accuracy
- Dedicated DC leakage range for sensitive current measurements

Res.	Basic DC Accuracy	Measurement Functions	Advanced Measurements	Connectivity	Mfr. Model	Item No.
Bench Digital Multimeters						
6.5 Digits	±0.0024%	VAC and VDC, Amps AC and DC, Ohms, Frequency, Period, Capacitance, and Temp.	Wide Ohms & Current Ranges, 2 x 4 Wire Ohms, Graphical Display, Analysis Functions, Histogram, Trendplot, and Statistics	USB Memory device port. RS-232, LAN & GPIB PC Interface	Fluke-8846A 120V	**1CXH6**
6.5 Digits	±0.0030%	VAC and VDC, Amps AC and DC, Ohms, Frequency, and Period	2 x 4 Wire Ohms, Graphical Display, Analysis Functions, Histogram, Trendplot, and Statistics	RS-232, LAN & GPIB PC Interface	Fluke-8845A 120V	**1CXH4**
5.5 Digits	±0.01%	VAC and VDC, Amps AC and DC, Ohms, and Frequency	2 x 4 Wire Ohms, Setup Keys	RS-232 PC Interface	Fluke-8808A 120V	**2GMH3**

GA GRAINGER APPROVED Autonics Sensors & Controllers Simpson SUPPLIER DIVERSITY

Digital Panel Meters


No. 11Y551


No. 12G476



No. 1X181

Style	Input Range	Power Req.	Display Span	Display	Excitation	Accuracy	Fits	Mounting	D	Item No.
GA										
AC Current										
24x72	0 to 5A AC	85-250VAC	0 to10/100/1000	Red LCD	No	±0.5% of reading ±5count	Standard 3/648 DIN Cutout	—	—	**12G476**
	0 to 5A AC	85-250VAC	0 to 30/300	Gray LCD	No			—	—	**12G473**
48x96	0 to 5A AC	40V-300VAC/DC	0 to 10/100/1000	RED LED	No	±0.5% of range + 1 Digit	Standard ⅛ DIN Cutout	—	—	**12G478**
	0 to 5A AC	40V-300VAC/DC	0 to 15/150	RED LED	No			—	—	**12G479**
	0 to 5A AC	40V-300VAC/DC	0 to 30/300	RED LED	No			—	—	**12G481**
	0 to 5A AC	40V-300VAC/DC	0 to 50/500	RED LED	No			—	—	**12G483**
	0 to 5A AC	40V-300VAC/DC	1999	Red LED	No			—	—	**12G470**
DC Voltage										
24x72	0 to 20VDC	85-250VAC	1999	Gray LCD	No	±0.1% of reading ±1Count	Standard 3/648 DIN Cutout	—	—	**12G498**
	0 to 200VDC	85-250VAC	1999	Gray LCD	No			—	—	**12G507**
Autonics										
—	—	100 to 240VAC 50/60hz	—	LED	—	±0.5%	⅛ DIN	—	3¾"	**11Y551**
	—	—	—	5 digit LCD	—	0.05%		—	—	**11Y497**
AC Current										
MT4W Series	0 to 5AAC	100 - 240 VAC 50/60hz	-1999 ~ 9999	Red LED	No	±0.3%	⅛ DIN	Bracket	4.2"	**11Y538**
MT4Y Series	0 to 5AAC	100 - 240 VAC 50/60hz	-1999 ~ 9999	Red LED	No		72x36mm	Bracket	3.3"	**11Y512**
DC Scaling										
M4NS Series	4 to 20mA DC	Loop Powered	-1999 ~ 9999	Red LED	No	±0.3%	1/32 DIN	Bracket	2.1"	**11Y548**
M4V Series	0 to 2 VDC 0 to 10VDC 1 to 5VDC 0 to1mA DC 4 to 20mA DC	12 - 24 VDC	-1999 ~ 9999	Red LED	No	±0.2%	3/64 DIN	Bracket	4.2"	**11Y550**
M4YS Series	4 to 20mA DC	Loop Powered	-1999 ~ 9999	Red LED	No	±0.3%	72x36mm	Bracket	3.3"	**11Y549**
Simpson Electric										
AC Current										
Falcon	0 to 5A AC	120VAC	0 to 10/100/1000	Red LED	No	±1% of reading ±5 counts	Standard 1/8 DIN Cutout	Clip	2.94"	**1X181**
Hawk 3	0 to 5A AC	120VAC	1999	Red LED	No	±0.3% of reading ±2 counts	Standard ⅛ DIN Cutout	Clip	3.25"	**1FC99**
AC Voltage										
Hawk 3	0 to 200VAC	120VAC	1999	Red LED	No	±0.1% of reading ±1 count	⅛ DIN Cutout	Clip	3.25"	**4EU89**
	0 to 600VAC	120 VAC	1999	Red LED	No	±0.2% of reading ±1 count		Clip	3.25"	**3FTU2**
DC Current										
Falcon	0 to 50mV DC	120VAC	0 to 150 ADC	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	2.94"	**1X145**
DC Voltage										
2800 Series	0 to 200VDC	120VAC	1999	Red LED	No	±1.0% of input + 5 counts	1.682 x 3.622" Cutout	Slide Mounting Brackets	4.72"	**1T902**
Falcon	0 to 20VDC	120VAC	1999	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	2.94"	**2T861**
	0 to 200mV DC	120VAC	1999	Red LED	No			Clip	2.94"	**2T859**
	0 to 200VDC	120VAC	1999	Red LED	No			Clip	2.94"	**2T862**
Hawk 3	0 to 20VDC	120VAC	1999	Red LED	No			Clip	3.25"	**1FC98**
Mini-Max	0 to 20VDC	9-32VDC	1999	Gray LCD	No		Standard 3/64 DIN Cutout	Unique, Allows Stacking of Multiple Meters	2.36"	**1X345**
Digital										
Amik	100 to 500VAC	40V-300VAC/DC	9999	Red LED	No	±1%	¼ DIN, 96 x 96mm Opening, Din Rail	Clip	2.16"	**48MD90**
Frequency										
Falcon	20 to 199.9Hz	120VAC	20 to 199.9	Red LED	No	±.2% of input ±0.2 Hz	Standard ⅛ DIN Cutout	Clip	2.94"	**4TL78**
Process										
Falcon	0 to 10VDC	120VAC	0 to 100%	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	2.94"	**2T885**
	0 to 10VDC	120VAC	0 to 100%	Red LED	No	±0.02% of reading ±1 count		Clip	2.94"	**2T887**
	4 to 20mA DC	120VAC	0 to 100%	Red LED	No	±0.1% of reading ±1 count		Clip	2.94"	**2T884**
Hawk 3	4 to 20mA DC	120VAC	0 to 100%	Red LED	No			Clip	3.25"	**1FD10**
	4 to 20mA DC	120VAC	0 to 100%	Red LED	24 VDC		⅛ DIN Cutout	Clip	3.25"	**4EU92**
Temperature										
Falcon	Type J T/C	120VAC	-328° to 2192°F	Red LED	No	±0.1% of reading ±1.8 °F	Standard ⅛ DIN Cutout	Clip	2.94"	**2T907**
Hawk 3	Type J T/C	120VAC	-328° to 2192°F	Red LED	No	±0.2% of reading ±2 counts		Clip	3.25"	**1FD12**
Mini-Max	RTD Pt100	85-250VAC	-328° to 1562°F	Red LED	No	±0.2% of reading + 2.7 °F	Standard 3/64 DIN Cutout	Unique, Allows Stacking of Multiple Meters	2.36"	**3LW54**
	Type J T/C	85-250VAC	-328° to 2192°F	Red LED	No	±0.1% of reading + 2.7 °F		Unique, Allows Stacking of Multiple Meters	2.36"	**3LW52**
	Type K T/C	85-250VAC	-328° to 2498°F	Red LED	No			Unique, Allows Stacking of Multiple Meters	2.36"	**3LW53**

Range	Size 2.5" Item No.	Size 3.5" Item No.	Size 4.5" Item No.
AC Current			
0 to 5 AC A	**12G369**	**12G370**	**12G371**
0 to 10 AC A	**12G372**	**12G373**	**12G374**
0 to 15 AC A	**12G376**	**12G378**	**12G377**
0 to 25 AC A	**12G379**	**12G380**	**12G383** *
	—	**12G382** *	—
0 to 50 AC A	**12G385**	**12G384**	**12G388** *
	—	**12G387** *	**12G386**
0 to 75 AC A	—	**12G389** *	**12G390** *
0 to 100 AC A	**12G391** *	**12G392** *	**12G393** *
0 to 150 AC A	**12G394** *	**12G395** *	**12G396** *
0 to 200 AC A	—	**12G398** *	**12G399** *
0 to 300 AC A	**12G401** *	**12G402** *	**12G403** *
AC Percent Load			
0 to 150% 5 AC A	—	**12G413** *	**12G414** *
AC Voltage			
0 to 150 AC V	**12G405**	**12G406**	**12G404**
0 to 300 AC V	**12G409**	**12G407**	—
0 to 500 AC V	**12G410**	**12G411**	**12G412**
DC Current			
0-10 DC A	—	**12G417**	—
0-25 DC A	**12G419**	**12G420** †	—
0-50 DC A	**12G422**	**12G423**	—
DC Voltage			
0-15 DC V	**12G436**	**12G437**	—
0-30 DC V	—	**12G439**	**12G440**
0-50 DC V	**12G443**	**12G441**	**12G442**
0-150 DC V	**12G445**	—	**12G444**

** External 5A AC current transformer required. † External 50mV shunt required.*

GA GRAINGER APPROVED

Analog Panel Meters

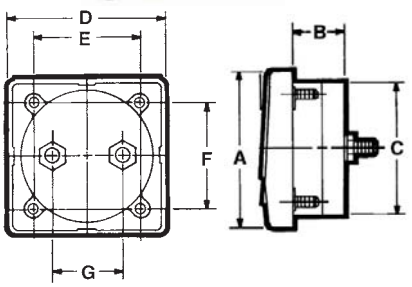
- ±1.5% accuracy
- Polycarbonate window

Each includes panel cutout template and mounting hardware.

Percent Load Meters—These sensitive meters visually monitor the load conditions of AC or DC motors while they are running, helping to prevent motor overloading and burnout. Scale is color segmented for easy reading.



No. 12G382



Size	Dimensions A	B	C	D	E	F	G
2½"	2.47"	1.15"	2.17"	2.47"	1.88"	1.88"	1.00"
3½"	3.25"	1.22"	2.71"	3.25"	2.25"	2.25"	1.50"
4½"	4.00"	1.22"	2.75"	4.68"	3.56"	3.56"	1.50"



No. 12G458



No. 12G449



No. 12G456

GRAINGER APPROVED

Current Transformers and Shunts for Digital and Analog Panel Meters

CURRENT TRANSFORMERS

Produce a 5A output for each primary range.

SHUNTS

50mV shunts enable a digital or analog panel meter to indicate higher DC currents than with a self-contained internal shunt. Portable units are mounted in a phenolic base. Switchboard units mount directly onto a busbar.

Primary Range	Item No.
Solid Core Current Transformer	
0 to 50A	**12G458**
0 to 75A	**12G459**
0 to 100A	**12G460**
0 to 150A	**12G461**
0 to 200A	**12G462**
0 to 250A	**12G463**
0 to 300A	**12G464**
0 to 400A	**12G465**
0 to 500A	**12G466**
0 to 600A	**12G467**
External Portable Shunt	
5ADC	**12G449**
10ADC	**12G450**
Switchboard Shunt	
300ADC	**12G456**
500ADC	**12G457**



No. 6XAA3



No. 13X092



No. 46F063



No. 3A366



No. 2LUY3

EXTECH INSTRUMENTS | B&K PRECISION ELECTRONIC TEST INSTRUMENTS

Single-Output DC Power Supplies

EXTECH®

Each includes power cord.

5% to 100% Current Limits

Nos. 6XAA3 and 6XAA5: Short circuit protection. Constant voltage or current. High load/line regulation. Banana plug output terminals. Low noise/ripple.

No. 13X092: Dual-action voltage and current control with push-knob for fine and coarse tuning. Automatic constant current and constant voltage crossover. Remote control for output voltage/current and On/Off. 2 custom voltage and current presets and 13.8V/20A factory preset. Overvoltage, overtemperature, and short-circuit protection. High RFI immunity and excellent EMI.

B&K PRECISION®

Constant Current

- Parallel or series connection
- Load regulation

No. 6T508: Overload, thermal, and short-circuit protection.

No. 2LUW9: Overload and short-circuit protection. Variable voltage output at continuous operation. Output selectable by slide switch.

No. 2LUW7: Overcurrent, overvoltage, and overtemperature protection. Automatically recalculates voltage/current limits for each setting. Output On/Off control. 100W max. output.

0% to 100% Current Limits

- Reverse polarity and overload protection
- Parallel or series connection
- 16 programmable preset outputs
- In-case calibration
- Output On/Off control
- Selectable 10mV/10mA resolution
- Load regulation

Each includes RS-232-to-TTL cable and software.

5% to 100% Current Limits

- Reverse polarity, overload, thermal, and short-circuit protection, except No. 1T197 reverse polarity and overload only
- Load regulation
- 0 to 30V models offer constant voltage and current and parallel or series connection
- 0 to 60V and 0 to 35V models offer current limiting, constant current, or voltage operation

Output Volts (DC)	Output Current (A)	Input Voltage	Ripple Volts Regulation	Line Volts Regulation	Meter Type	Display	Mfr. Model	Item No.
Extech								
Current Limit - 5% to 100%								
0 to 18	0 to 3	115V/230 VAC	0.5mV	0.1% + 3mV	Dual LCD	—	382202	**6XAA3**
0 to 30	0 to 1	115V/230 VAC	0.5mV	0.1% + 3mV	Dual LCD	—	382200	**6XAA5**
	0 to 20	120 VAC	<5mVrms	20mV	Digital	Dual LED	382275	**13X092**
B&K Precision								
Constant Current - 1% to 100%								
3 to 15	0 to 40	120 VAC	10 mVrms	80mV (+/-10% variation)	2 Digital	3 Digit LED	1692	**2LUW9**
0 to 60	0 to 5	120 / 220 VAC	2.0 mVrms	0.01% + 3mV	2 Digital	4 Digit LED	9110	**2LUW7**
Constant Current Operation								
18	20	100 to 240 VAC	≤5 mV	≤20mV	Digital	Dual LED	1688B	**46F062**
30 to 60	Low Range: 3; High Range: 2	120/220VAC ±10%VAC	1 mVrms	0.01% + 3mV	Digital	Dual LED	1737	**46F063**
35 to 60	Low Range: 0-10; High Range: 0-5	120/220VAC ±10%VAC	1 mVrms	0.01% + 3mV	Digital	Dual LED	1747	**46F064**
36	10	100 to 240 VAC	≤5 mV	≤20mV	Digital	Dual LED	1687B	**46F061**
60	5	100 to 240 VAC	≤5 mV	≤20mV	Digital	Dual LED	1685B	**46F060**
Current Limit - 0% to 100%								
0 to 30	0 to 3	110/240VAC	≤5 mVrms	≤0.05 % + 1mV	Digital	Dual 3-Digit LED	1670A	**20FP71**
0 to 80	0 to 60	100 to 240VAC	60 mVpp	0.02 + 1mV	Digital	(5) Digit VFD	9115	**20VD83**
0 to 60	0 to 25	110/220VAC ±10%VAC	≥20 mVpp	>or Equal 0.01% + 15mV	Digital	VFD Display	9205	**40CP73**
0 to 150	0 to 10	110/220VAC ±10%VAC	≥50 mVpp	>or Equal 0.01% + 15mV	Digital	VFD Display	9206	**40CP67**
1 to 32	0 to 30	120 VAC	≥5 mVrms	>or Equal To 20mV	2 Digital	3-Digit LED Display	1901B	**49AF90**
1 to 60	0 to 15	120 VAC	≥5 mVrms	>or Equal To 20mV	2 Digital	3-Digit LED Display	1902B	**49AF91**
5 to 150	0.04 to 10.4	100 to 240VAC	>or Equal 10 mVrms	>or Equal 17mV	Digital	(4) Digit VFD	XLN15010-GL	**20VD78**
Current Limit - 5% to 100%								
0 to 30	0 to 0.25, 0 to 1	120/240 VAC	≤1mV	≤0.01% + 3mV	2 Analog	—	1710A	**3A366**
	0 to 0.5, 0 to 3	120/240 VAC	≤1mV	≤0.01% + 3mV	2 Analog	—	1730A	**3WU41**
	0 to 3	120/240 VAC	≤1mV	≤0.01% + 3mV	2 Digital	4 Digit LED	1735A	**1T197**
0 to 35	0 to 6	120/240 VAC	≤1mV	≤0.2% + 2mV	2 Digital	4 Digit LED	1743B	**3CE32**
	0 to 10	110/240VAC	>1mVrms	>0.02% + 2mV	Digital	Dual 4-Digit LED	1745A	**20FP73**
0 to 60	0 to 2	120/240 VAC	≤1mV	≤0.01% + 3mV	2 Digital	4 Digit LED	1715A	**3WU40**
3 to 14	12 @ 13.8VDC	120/230 VAC	≤10mV RMS	≤0.8%	2 Analog	—	1686A	**6T508**
Accessory								
Test Lead Set, Includes 1 Pair of Each 48" Long Leads (Straight to Retractile Stacking Plug), Large Insulated Alligator Clips, Standard Alligator Clips with Rubber Boots, Spade Lug Adapter 6mm, Insulated Shrouded 4mm Banana Plug Adapters, and Remote Sensing Leads							TLPS	**2LUY3**

RF Adapter Kits

Pomona®

Includes	Mfr. Model	Item No.
N-Type Male and Female, BNC Male and Female, TNC Male and Female, SMA Male and Female, Coupler, Double Banana Plug, Double Binding Post	5698	30PH70
BNC Female/N-Type Male, SMA Female/N-Type Male, SMA Male/N-Type Male, SMA Male/N-Type Female, SMA Female/N-Type Female, SMA Female/TNC Male, SMA Female/BNC Female, SMA Male/BNC Male, SMA Male/TNC Female, SMA Female/TNC Female, SMA Male/BNC Female, SMA Male to Female Right Angle, SMA Male to Male, BNC Male/N-Type Female, N-Type Female to Female, BNC Male to Male, N-Type Male to Male, SMA Male/TNC Male, TNC Male/BNC Female, BNC Female to Male to Female, TNC Female to Female, BNC Female to Female to Female, BNC Female to Female, SMA Female to Female, SMA Male Termination, SMA Female/BNC Male	72934	30PH72
N-Type Male and Female, BNC Male and Female, TNC Male and Female, SMA Male and Female, Coupler, Double Banana Plug, Double Binding Post, UHF Male and Female, Mini UHF Male and Female, F Male and Female, RCA Male and Female, Signal Sampler	5748	30PH71



No. 30PH72



Pomona® No. 30PH97

Component Boxes

Features	H	W	D	Item No.
—	1.38"	2.25"	1.13"	30PH94
	2.64"	4.25"	1.71"	30PH95
BNC Female Connectors	1.13"	2.25"	0.88"	30PH92
	1.38"	2.25"	1.13"	30PH96
BNC Male and Female Connectors	1.13"	1.50"	0.88"	30PH97
	1.13"	2.25"	0.88"	30PH93



No. 30PH63



No. 30PH66



No. 30PH74

BNC Adapters

Pomona®

Adapter Type	Contact Material	Frequency Range (Hz)	Voltage Rating	Item No.
Beryllium Copper Body Material				
Female to Male	Brass/Beryllium Copper	DC to 12.4 GHz	335 Vrms	30PH63
Male to Female	Brass/Beryllium Copper	DC to 12.4 GHz	335 Vrms	30PH64
Brass Body Material				
Bulkhead	Beryllium Copper	DC to 500 MHz	500 Vrms	30PH65
Female Panel	Beryllium Copper	—	500 Vrms	30PH60
Female to Female	Beryllium Copper	—	500 Vrms	30PH61
Male to Female to Female	Brass/Beryllium Copper	—	500 Vrms	30PH66
Phone Plug	Beryllium Copper	—	500 Vrms	30PJ22
Termination	Brass/Beryllium Copper	DC to 250 MHz/250 to 500 MHz	500 Vrms	30PH74
Nickel Plated Brass Body Material				
Female to Double Banana Plug	Gold Plated Beryllium Copper	—	30VAC/60VDC	3T045
Female to Female	Gold Plated Beryllium Copper	—	30VAC/60VDC	3T037
Female to Female to Female	Gold Plated Beryllium Copper	—	30VAC/60VDC	3T038
Male to Double Binding Post	Gold Plated Brass	—	30VAC/60VDC	3T048
Polypropylene Body Material				
Feamale to Binding Post	Brass	—	30VAC/60VDC	30PH59

★GA GRAINGER APPROVED SCS
Pomona® DESCO

Static Grounding Components, Kits, Systems, and Tester

Protect sensitive electronic components from static charge during assembly, repair, and transport.

Features	Brand	Item No.	Pkg. Qty.
Antistatic Heel Strap			
Blue, Elastic Hook and Loop Closure, Cross-linked Tire Grade Rubber Will Not Leave Black Marks on Floor, 1 megohm Resistor	GA	4ECU7	1
Yellow, Elastic Hook and Loop Closure, Cross-linked Tire Grade Rubber Will Not Leave Black Marks on Floor	GA	4ECU8	20
Antistatic Table Mat			
Blue mat has 3-layer construction to maximize dissipation	SCS	3BU23	1
Antistatic Table Mat, Green			
0.065" Thick, Lead Free, Nitrile Rubber	GA	4ECV1	1
0.138" Thick, Lead Free, Nitrile Rubber	GA	4ECU9	1
Elastic Wrist Strap Kit			
Adjustable Elastic Wrist Strap Kit: wrist strap, cord, and alligator clip	Pomona	4KK39	1
Lead-free, RoHS Compliant	GA	4ECV9	1
Lead-free, RoHS Compliant	GA	4ECU6	1
Grounding Strap			
Medium	Desco	8P766	1
Heel Grounding Strap			
Economy Heel Grounder,3/4 Elastic Loop, (1) Megohm Resistor, and 2-Layer, Dissipative, Blue/Black Sole	SCS	20FX03	1
NonMarring,Hook and Loop Closure,1 Megaohm Resistor	Desco	9W661	1
No-Slip Black Sole, Burgundy Hook And Loop, 1 Megohm Resistor, Moderate Heel Contact Area, ESD SP9.2 Type A, Effectively Grounds Mobile Personnel When They Are In Contact With Conductive And Dissipative Flooring	SCS	3XJZ2	1
Hi-Visibility Grounding Strap			
Yellow-Green Glow Strap, 1 Megohm Resistor, ESD SP9.2 Type A, Grounds Mobile Personnel When In Contact With Conductive And Dissipative Flooring	SCS	3XJV3	1
Metal Wrist Strap Kit			
Lead-free, RoHS Compliant	GA	4ECW2	1
Static Control Cord, Straight			
First End Straight Barrel Type Banana Jack, Second End Spring Loaded ⅛" (4mm) Socket Connector, Black PVC Cord and 7 Strand Tinsel Wire With Strain Reliefs at Both Ends, Lead-free RoHS Compliant	GA	4ECV7	1
Static Control Kit			
Portable 18 x 22" Anti-static Mat	GA	4ECW4	1
Portable 22 x 24" Static-safe Work Mat	GA	4ECW5	1
Static Control Wrist Strap			
Flexible Stainless Steel Band, Stainless Steel Back Plate, 1M Ohm Resistor and 4mm Snap	GA	4ECW1	1
Non Allergenic Elastic Band with Silver Conductive Fibers, Stainless Steel Back Plate, 1M Ohm Resistor and 4mm Snap	GA	4ECV8	1
Static Shielding Bag			
Lead-free RoHS Compliant, Amino-free, Non-corrosive, Meets EIA-541 for Static Shielding Packaging	GA	4ECV2	100
Wrist Strap			
Dual Wire, Mono Plug Connection	SCS	29AH06	1
Wrist Strap Tester			
Touch-type-on-demand tester for wrist strap and ground cord. Provides ground point for continuous protection and convenient use. Test static control wrist strap for correct operation	Pomona	4KK43	1
Wrist Strap Workstation Monitor			
Monitors Resistance/Voltage, Worksurface Ground Connections and Tool Ground Connections	SCS	3XJZ5	1



No. 4ECU7



No. 4ECV9



No. 4ECV7



No. 4ECW4



No. 4ECV8



No. 29AH06



No. 4ECV2



No. 4KK43



Fluke 754 No. 11A108



Fluke 773 No. 4FFG6



Fluke 707 No. 1ND74



Fluke 709 No. 21RL62



Fluke 724 No. 6KD41

Process Tools

FLUKE.

Broad line of calibration tools, including intrinsically safe calibrators, meets the needs of instrument technicians in process industries.

Fluke 787B Process Meter—Multimeter and mA loop calibrator functionality. Simultaneous mA and % scale of readout. Frequency measurement to 20kHz.
- Measure, source, and simulate mA with accuracy
- Compatible with Fluke Connect® mobile app; required Fluke IR3000FC module (not included)

Fluke 789 Process Meters—Multimeter and loop calibrator functionality. 0 to 100% mA span check, HART resistor, and 24V loop power.
- 20mA drive into 1200Ω
- Compatible with Fluke Connect® mobile app

Fluke 750 Series Documenting Process Calibrators—Instruments source/measure almost any process signal and auto-save test results, with upload/download data to PC ability. Pressure calibration available with 48 pressure modules (sold separately). No. 11A108 has a HART calibrator.

Measurement Functions	Source/Simulate	Loop Supply Voltage	Intrinsically Safe	Calibration Certificate	Mfr. Model	Item No.
Process Meters						
V, mA, Ohms	V, mA	—	—	No	Fluke-787B/WWG	**53DN34**
V, mA, Ohms, F	mA	—	No	Yes	Fluke-787 NIST	**4KD99**
	mA	—	No	—	Fluke-787	**4KF01**
	mA	24VDC	No	—	Fluke-789	**3MU89**
	mA	24VDC	No	Yes	Fluke-789-NIST	**3EB45**
Current, Voltage, Frequency, Resistance, Diode Test, Continuity Check	Current Source	24VDC	No	Yes	Fluke-789/ T3000 FC	**31FN30**
Documenting Process Calibrators						
Voltage (AC and DC), Current, Resistance, Frequency, TC and RTD	V, mA	26VDC	No	Yes	Fluke-753	**11L866**
	V, mA	26VDC	No	Yes	Fluke-754	**11A108**
Multifunction Process Calibrators						
V, mA, Ohms, T, P*†, F	V, mA, Ohms, T, P*†, F	24 V DC	No	Yes	Fluke-725	**6KD42** #
V, mA, Ohms, T, P*‡, F	V, mA, Ohms, T, P*†, F	12 VDC	Yes	Yes	Fluke-725EX	**4GU10** #
V, mA, Ohms, T, P*†, F	V, mA, Ohms, T, P*†, F	24 VDC	No	Yes	Fluke-726	**2PY43** #
Milliamp Process Clamp Meters						
mA	V, mA	—	No	No	Fluke-771	**1LWZ7**
	mA	24VDC	No	No	Fluke-772	**4FFG4**
V, mA	V, mA	24VDC	No	No	Fluke-773	**4FFG6**
	V, mA	24VDC	No	Yes	Fluke-773/NIST	**4FFG7**
Loop Calibrators						
mA, V	mA	24VDC	No	Yes	Fluke-705	**4WR69** #
	mA	24VDC	No	Yes	Fluke-707	**1ND74** #
	mA	24VDC	Yes	Yes	Fluke-707EX	**3BA19** #
mA and Volts	4 to 20 mA	24VDC	No	Yes	Fluke-709	**21RL62** #
	4 to 20 mA	24VDC	No	Yes	Fluke-709H	**21RL63** #
Temperature Calibrators						
Temperature and Resistance	T, Ohms	—	No	Yes	Fluke-712	**4TR01** #
Temperature and Voltage	T, mV	—	No	Yes	Fluke-714	**4TR03** #
Temperature, Voltage, Current and Resistance	T, Ohms, V	24VDC	No	Yes	Fluke-724	**6KD41** #

** External pump required. † Pressure module required. ‡ Intrinsically safe pressure module required. # Includes traceable calibration certificate.*

Fluke 725/726 Multifunction Calibrators—2-channel instruments measure/source volts, mA, RTDs, thermocouples, frequency, ohms, and pressure. Nos. 6KD42 and 2PY43 have 48 pressure modules. No. 4GU10 has 8 pressure modules; ATEX Ex II 1G Eex ia IIC T4, Class 1 Div 1 Group A-D.

Fluke 770 Series Milliamp Process Clamp Meters—Measure 4 to 20mA signals without breaking the loop and mA signals for PLC and control system analog I/O.
- 0.2% accuracy
- 0.01mA resolution and sensitivity

Fluke 705/707/715 Loop Calibrators—Selectable ramp/step modes. Simultaneous mA and % readout aid quick interpretation of readings. Push-button 25% steps for fast linearity checks. No. 3BA19 is FM Approved Class I Div. 2 Groups A and D, Ex II 1G Eex ia IIC T4.
- Source 0-20V to test 1-5V; 0-10V I/O (715 only)
- mA accuracy: 0.02% (705) and 0.015% (707)

Fluke 709/709H Loop Calibrators—Rugged and easy to use, with rotary knob and 2-wire connection. Variable ramp/step time. Source/simulate defined mA values with % keys for valve test. No. 21RL63 has a built-in HART modem with 709H/Track software and cable.
- Selectable 250Ω resistor for HART communication
- Adjustable 0-20 mA or 4-20 mA span
- mA accuracy: 0.01%

Fluke 712/714/724 Temperature Calibrators—Select by input measured/simulated: No. 4TR01 RTDs; No. 4TR03 mV/thermocouples; No. 6KD41 RTDs, volts, thermocouples, and ohms on dual display.

Process Temperature Calibration Sources

FLUKE.



Field Metrology Well



Digital Thermometer-Hygrometer

Portable instruments help calibrate and verify RTDs and thermocouples and calibrate dial and bulb thermometers, temperature switches, and mA loops.

DRYWELL TEMPERATURE CALIBRATORS

Fluke 9103/9140/9150—Field calibrators provide accuracy to ±0.25°C and stability to ±0.02°C.
- Insert A: ½", ⅜", ¼", 3⁄16", ⅛", 1⁄16"
- Insert B: ⅜" (x2), ¼", 3⁄16", ⅛", 1⁄16"
- Insert C: ¼" (x6)
- Insert D: Includes 3 pr. metric-sized wells

FIELD METROLOGY WELLS

Fluke 9142/9143/9144—Drywells give fast results in the field: just 15 min. to cool to -25°C or heat to 660°C, depending on model selected. Stability to ±0.01°C. Carrying case No. 33X033 is available on Grainger.com®. Process models feature 2-channel readout for PRT, RTD, thermocouple, or 4-20mA input, with onboard automation and documentation.
- Insert A: ¼" (x2), 3⁄16", ⅛", ⅜"
- Insert B: ¼", 3⁄16", ⅛", ⅜" (x2)
- Insert C: ¼" (x6)

MICRO BATHS AND THERMOMETER-HYGROMETERS

Fluke 6102/7102/7103—Microbaths calibrate varied probe diameters without inserts and take up minimal space. Stability to ±0.015°C.

Fluke 1620/1621/1622—Digital graphical datalogging thermohygrometers are network-enabled. Select models include logging and analysis tools.
- High accuracy: ±0.125°C
- Standard accuracy: ±0.25°C

Description	Mfr. Model	Insert Type A Item No.	B Item No.	C Item No.
Field Metrology Wells				
-25 to 150°C	9142	**33W954**	**33W956**	**33W958**
-25 to 150°C, Process Version	9142	**33W955**	**33W957**	**33W959**
33 to 350°C	9143	**33W968**	**33W970**	**33W972**
33 to 350°C, Process Version	9143	**33W969**	**33W971**	**33W973**
50 to 660°C	9144	**33W982**	**33W984**	**33W986**
50 to 660°C, Process Version	9144	**33W983**	**33W985**	**33W987**

Description	Mfr. Model	Insert Type A Item No.	B Item No.	C Item No.	D Item No.
Drywell/Temperature Calibrators					
Field Drywells, -25 to 140°C	9103	**33W927**	**33W928**	**33W929**	**33W939**
Field Drywells, 35 to 350°C	9140	**33W930**	**33W931**	**33W932**	**33W940**
Thermocouple Furnaces, 150 to 1200°C	9150	**33W936**	**33W937**	**33W938**	**33W942**

Description	Mfr. Model	Item No.
Microbaths		
35 to 200°C	6102-156	**33W924**
-5 to 125°C	7102-156	**33W925**
-30 to 125°C	7103-156	**33W926**
Digital Thermometer-Hygrometers		
Datalogger, High Accuracy	1620A-H-156	**33W943**
Datalogger, Standard Accuracy	1620A-S-156	**33W944**
Datalogger Kit, High Accuracy, LogWare III, Spare Sensor	1621A-H-156	**33W945**
Datalogger Kit, Standard Accuracy, LogWare III, Spare Sensor	1621A-S-156	**33W946**
Datalogger Kit, High Accuracy, LogWare III, Spare Sensor, Wireless	1622A-H-156	**33W948**
Datalogger Kit, Standard Accuracy, LogWare III, Spare Sensor, Wireless	1622A-S-156	**33W949**

Source/Simulate	Measure Functions	Loop Supply Voltage	Pressure Modules	Mfr. Model	Item No.
Pressure Calibrators					
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-1G	**1GAK8** *
—	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717 15G	**16L006**
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717 30	**6KD37** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717 100G	**1ND75** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-300G	**1GAN1** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-500G	**1GAN3** *
—	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717 10000G	**16L007**
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-1000G	**1GAN5** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-1500G	**1GAN7** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-3000G	**1GAN9** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-717-5000G	**1GAP2** *
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-718-1G	**1GAK4**
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-718 30	**6KD39**
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-718 100	**6KD38**
P	Pressure, mA DC	24VDC	750P Series (50)	Fluke-718-300G	**1GAK6**
P	Pressure, mA DC	—	700P Ex Series (8)	Fluke-718Ex-30	**4FA90**
P	Pressure, mA DC	—	700P Ex Series (8)	Fluke-718Ex-100	**4FA91**
P	Pressure, mA DC	—	700P Ex Series (8)	Fluke-718Ex-300	**3DXK6**
P, mA	Pressure, mA DC, VDC, Temp.	24VDC	700P Series (29)	Fluke-719PRO 300G	**19YM04**
P, mA	Pressure, mA DC	24VDC	750P Series (50)	Fluke-719 30G	**3DXK7**
P, mA	Pressure, mA DC	24VDC	750P Series (50)	Fluke-719 100G	**3DXK8**
—	Pressure, mA DC	24VDC	750P Series (50)	FLK-729 300GFC/WWG	**53KH65**

Range	High Side Media 2	Reference Uncertainty 4	Total Uncertainty 4	Fitting Material	Mfr. Model	Item No.
Absolute						
0 to 5 psi (0 to 35 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA3	**30PJ46**
0 to 15 psi (0 to 100 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA4	**30PJ47**
0 to 30 psi (0 to 200 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA5	**30PJ48**
0 to 100 psi (0 to 700 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA6	**30PJ49**
0 to 300 psi (0 to 2000 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA27	**30PJ50**
0 to 500 psi (0 to 3500 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA7	**30PJ51**
0 to 1000 psi (0 to 7000 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA8	**30PJ52**
0 to 1500 psi (0 to 10 MPa)	316 SS	0.030%	0.060%	SS	Fluke-750PA9	**30PJ53**
Differential						
0 to 0.03 psi	Non-Corrosive Gas	0.150%	0.300%	SS	Fluke-750P00	**30PJ30** †
0 to 0.36 psi (0 to 2.5 KPa)	Non-Corrosive Gas	0.100%	0.200%	SS	Fluke-750P01	**30PJ31** †
0 to 1 psi (0 to 7 KPa)	316 SS	0.050%	0.100%	SS	Fluke-750P22	**30PJ32** †
0 to 1 psi (0 to 7 KPa)	Non-Corrosive Gas	0.050%	0.100%	SS	Fluke-750P02	**30PJ77** †
0 to 5 psi (0 to 35 KPa)	316 SS	0.020%	0.040%	SS	Fluke-750P23	**30PJ33** †
0 to 5 psi (0 to 35 KPa)	Non-Corrosive Gas	0.020%	0.040%	SS	Fluke-750P03	**30PJ76** †
0 to 15 psi (0 to 100 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P04	**30PJ34** †
0 to 15 psi (0 to 100 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P24	**30PJ35** †
Dual						
-15 to 15 psi (-100 to 100 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD4	**30PJ59** †
-15 to 30 psi (-100 to 200 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD5	**30PJ60**
-15 to 50 psi (-100 to 350 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD50	**30PJ61**
-15 to 100 psi (-100 to 700 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD6	**30PJ62**
-15 to 200 psi (-100 to 1400 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD7	**30PJ63**
-15 to 300 psi (-100 to 2000 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750PD27	**30PJ64**
-10 to 10 psi (-70 to 70 KPa)	316 SS	0.025%	0.050%	SS	Fluke-750PD10	**30PJ58** †
-5 to 5 (-35 to 35 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PD3	**30PJ57** †
-1 to 1 psi (-7 to 7 KPa)	316 SS	0.050%	0.100%	SS	Fluke-750PD2	**30PJ56** †
Gauge						
0 to 30 psi (0 to 200 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P05	**30PJ36**
0 to 100 psi (0 to 700 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P06	**30PJ37**
0 to 300 psi (0 to 2000 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P27	**30PJ38**
0 to 500 psi (0 to 3500 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P07	**30PJ39**
0 to 1000 psi (0 to 7000 KPa)	316 SS	0.017%	0.035%	SS	Fluke-750P08	**30PJ40**
0 to 1500 psi (0 to 10 MPa)	316 SS	0.017%	0.035%	SS	Fluke-750P09	**30PJ41**
0 to 2000 psi (0 to 14 MPa)	316 SS	0.017%	0.035%	SS	Fluke-750P2000	**30PJ42**
High Pressure						
0 to 3000 psi (0 to 20 MPa)	316 SS	0.017%	0.035%	SS	Fluke-750P29	**30PJ43**
0 to 5000 psi (0 to 34 MPa)	316 SS	0.017%	0.035%	SS	Fluke-750P30	**30PJ44**
0 to 10000 psi (0 to 70 MPa)	316 SS	0.017%	0.035%	SS	Fluke-750P31	**30PJ45**
Intrinsically Safe/Gage						
0 to 15 psi (0 to 100 KPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P24EX	**48FX90**
0 to 15 psi (0 to 100 KPa)	316 SS	0.030%	0.070%	316 SS	FLK-750PA4EX	**48FX96**
0 to 30 psi (0 to 200 KPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P05EX	**48FX91**
0 to 100 psi (0 to 700 KPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P06EX	**48FX92**
0 to 300 psi (0 to 200 KPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P27EX	**48FX93**
0 to 1500 psi (0 to 10 MPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P09EX	**48FX94**
0 to 3000 psi (0 to 20 MPa)	316 SS	0.017%	0.045%	316 SS	FLK-750P29EX	**48FX95**
10" H2O (2.5 KPa)	Non-Corrosive Gas	0.010%	0.030%	316 SS	FLK-750P01EX	**48FX89**
Reference						
-15 to 30 psi (-100 to 200 KPa)	Non-Corrosive Gas	0.010%	0.020%	SS	Fluke-750RD5	**30PJ73**
-12 to 100 psi (-80 to 700 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750RD6	**30PJ74**
-12 to 300 psi (-80 to 2000 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750RD27	**30PJ75**
0 to 15 psi (0 to 100 KPa)	Non-Corrosive Gas	0.010%	0.020%	SS	Fluke-750R04	**30PJ65** †
0 to 100 psi (0 to 700 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750R06	**30PJ66**
0 to 300 psi (0 to 2000 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750R27	**30PJ67**
0 to 500 psi (0 to 3500 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750R07	**30PJ68**
0 to 1000 psi (0 to 7000 KPa)	316 SS	0.010%	0.020%	SS	Fluke-750R08	**30PJ69**
0 to 3000 psi (0 to 20 MPa)	316 SS	0.010%	0.020%	SS	Fluke-750R29	**30PJ70**
0 to 5000 psi (0 to 34 MPa)	316 SS	0.010%	0.020%	SS	Fluke-750R30	**30PJ71**
0 to 10000 psi (0 to 700 MPa)	316 SS	0.010%	0.020%	SS	Fluke-750R31	**30PJ72**
Vacuum						
-15 psi (-100 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PV4	**30PJ55** †
-5 psi (-35 KPa)	316 SS	0.030%	0.060%	SS	Fluke-750PV3	**30PJ54** †

Description	Mfr. Model	Item No.
Process Tool Accessories		
Low Pressure Test Pump	FLUKE-700LTP-1	**2GXE4**
Pneumatic Test Pump	FLUKE-700PTP-1	**2GXE3**
Hydraulic Test Pump	FLUKE-700HTPK	**16L018**
Pneumatic Test Pump	FLUKE-700PTPK	**16L019**
Hydraulic Test Pump	FLUKE-700HTP-2	**16L020**
Hydraulic Test Hose	FLUKE-700HTH-1	**2GXE7**
Pressure Relief Valve Kit	FLUKE-700PRV-1	**2GXE6**
Data Logging Cable and Software	700G/TRACK	**16L017**
Precision Pressure Pump	FLUKE-700PMP	**3KRE5**
Pneumatic Test Pump	FLK-700PTPK2	**40JM63**
Hydraulic Test Pump	FLK-700HTPK2	**40JM64**

**** External pump required † Low Side Media Compatible with Non-Corrosive Gas.***


No. 19YM04


No. 2GXE4


No. 2GXE4


No. 2GXE3


No. 16L018


No. 16L020

Pressure Calibrators and Modules

FLUKE

Calibration tools and calibrators are made for industrial instrument technicians.

FLUKE 710 SERIES PRESSURE CALIBRATORS

- Switch test captures set, reset, and deadband

Easy-to-use, complete pressure calibration solution sources/measures pressure and vacuum. (717 Series requires external pump, sold separately.) 718 Series have an internal hand pump that generates pressures up to 300 psi. 719 Series have an electric pump for one-handed pressure calibration; source/simulate 4 to 20mA.

FLUKE 750P SERIES PRESSURE MODULES

- 0 to 1" H_20 to 10,000 psi

Gage pressure modules have 1 pressure fitting and measure the pressure with respect to atmosphere. Differential pressure modules have 2 pressure fittings and measure the difference between the applied pressure on the high fitting versus the low fitting. Each module is clearly labeled for range, overpressure, and media compatibility. All modules include NPT, metric (BSP), and M20 adapters.

PROCESS TOOL ACCESSORIES

Fluke 700LTP-1 Low-Pressure Test Pump

Hand-operated pump generates either vacuum to -13 psi (-0.90 bar) or pressures to 100 psi (6.9 bar). Has 2 pressure ports with quick-fit connectors. Test hoses are terminated with ¼" NPT female fittings adapted with BSP/ISO adapters.

Fluke 700PTP-1 Pneumatic Test Pump

Capable of supplying pressures up to 600 psi (40 bar). For use with 700 Series pressure modules or test gauges.

Fluke 700HTPK Hydraulic Test Pump Kit

Includes 700HTP-2 test pump, 700HTH-1 hose kit, and adapters for connection to high-pressure gauges, pressure modules, or 717 Series pressure calibrators to be tested.

Fluke 700PTPK-1 Pneumatic Test Pump Kit

Includes 700PTP-1 test pump and hoses and adapters for connection to the gauges, pressure modules, or pressure calibrators to be tested.

Fluke 700HTP-2 Hydraulic Test Pump

Hand-operated. Generates calibration pressures up to 10,000 psi (690m bar). For high-pressure testing of gauges, pressure modules, or 717 Series pressure calibrators.

Fluke 700HTH-1 Hydraulic Test Hose

10,000 psi (690 bar) working pressure. Stainless steel and nylon construction. Connects a Fluke 700HTP-1 or other hydraulic test pump to a unit under test.

Fluke 700PRV-1 Pressure Relief Valve Kit

Has a relief value settable from 725 to 5800 psi (50 to 200 bar) for use with 700HTP-1 Hydraulic Test Pump. ⅛" NPT male thread fits directly into the Fluke 700HTP-1 Pressure Pump.


No. 23V746


No. 1TZP4


No. 6PFG3


No. 1TZR6

AMPROBE WESTWARD ZIRCON EXTECH INSTRUMENTS

Circuit Breaker Finders

Flashing LED indicator and audible tone quickly identify specific circuit breakers or fuses. Finders also identify and troubleshoot energized outlets. Feature easy-to-read display and include at least 1 transmitter/receiver. Nos. 6NZF8, 6PFG2, and 6PFG3 have automatic sensitivity adjustment. Nos. 23V745 and 23V746 have visual and audible indicators.

Voltage Range	Includes	Breaker/Fuse Identification	Audible Indicator	Battery Type	Brand	Mfr. Model	Item No.
Circuit Breaker Finders							
90 to 120VAC	Receiver, Transmitter, Users Manual, Batteries Installed	Yes	Yes	9V	Amprobe	BT-120	**6NZF8**
	Receiver, Transmitter, 9V Battery, OIPM	Yes	Yes	9V	Westward	23V745	**23V745**
90 to 250VAC	Receiver, Transmitter, Test Leads, Light Fixture Adapter, Carrying Case	Yes	Yes	9V	Amprobe	BT-250	**12U593**
110/240VAC	Receiver, Transmitter, 9V Battery, OIPM	Yes	Yes	9V	Westward	23V746	**23V746**
120VAC	Receiver, Transmitter, Battery	Yes	Yes	9V	Zircon	64070	**6PFG2**
	Digital Transmitter with GFCI Receptacle Tester, Receiver	Yes	Yes	9V	Extech	CB10	**1TZP4**
277VAC	Aluminum Case, Clips and Blades, Light Socket and 120VAC Plug Adapters, Battery	Yes	Yes	9V	Zircon	64058	**6PFG3**
Electrical Troubleshooting Kit							
Includes Mfr. No. CB10 Circuit Breaker Finder, CT20 Continuity Tester, Wire Tracer, DV20 AC Voltage Detector, Flashlight and Carrying Case					Extech	CB10-KIT	**1TZR6**
Accessory							
Alligator Plug/Lighting Adapter					Westward	23V747	**23V747**


No. 30ZX17


No. 460J50


No. 55AX71

GREENLEE IDEAL AMPROBE

Circuit and Wire Tracing Kits

Trace energized/de-energized circuits without power interruption, locate individual wires in a bundle, and locate shorts and ground faults.

Voltage Range	Includes	Traces Wires in Conduit	Traces Wires in Non-Metalic Conduit	Traces Wires in Floors	Traces Wires in Walls	Audible Indicator	Battery Type	Brand	Mfr. Model	Item No.
Circuit Breaker Finder										
0 to 750VAC/DC	Receiver, Transmitter, Outlet Adapter, (2) 12 ft. Leads, Batteries, Hard Carrying Case	Yes	Yes	Yes	Yes	Yes	(2) AA	Greenlee	CS-8000	**2NRW4**
Circuit Seeker										
0 to 600VAC/DC	AC Plug Adapter, Carrying Case, (2) Extension Leads, (2) Alligator Clips, AC Blade	Yes	No	Yes	Yes	Yes	(4) AA	Greenlee	CS-5000	**490Z78**
Circuit Tracer Kit										
0 to 600VAC/DC	LED Receiver, Transmitter, Test Lead Set, Hard Carrying Case	No	No	No	Yes	Yes	(4) AA	IDEAL	61-955	**30ZX16**
	OLED Rotating Receiver, Transmitter, Test Lead Set, Hard Carrying Case	No	No	No	Yes	Yes	(4) AA	IDEAL	61-957	**30ZX17**
	OLED Rotating Receiver, Transmitter, Inductive Clamp, Battery Pack, Test Lead Set, Hard Carrying Case	No	No	No	Yes	Yes	(4) AA	IDEAL	61-959	**30ZX18**
Wire Tracer										
0 to 600VAC/DC	Receiver, Transmitter, Hard Carrying Case, Test Lead, Accessory Kit, (12) Rechargeable Batteries, (3) Battery Chargers, Signal Clamp	No	Yes	Yes	Yes	Yes	(12) AA NiMH	Amprobe	AT-6030	**460J50**
	Receiver, Transmitter, Hard Carrying Case, Test Lead, Accessory Kit, (12) AA Batteries	No	Yes	Yes	Yes	Yes	(12) AA	Amprobe	AT-6020	**460J49**
	Receiver, Transmitter, Soft Carrying Case, Test Lead, Accessory Kit, (12) Batteries	Yes	Yes	Yes	Yes	Yes	AA	Amprobe	AT-6010	**55AX71**

Ferrous Metal Locators

CST/berger

Instruments locate iron, surveyors' markers, valve covers, and other ferrous objects underground, underwater, or in snow. Each includes soft case.

No. 3XA25—LCD with digital bar graph. Sensitivity switch allows manual adjustment.

Nos. 1ELK5 and 1ELK6, with Erase—Detect metals up to 15 ft. underground. Aluminum sensor tube allows use in various weather conditions. Erase button helps distinguish between target item and interfering items. With high-tech magnetic sensors and electronic balancing. LCD with digital numeric and bar graph displays, plus power line indicator. No. 1ELK5 analog bar graph allows you to locate visually.

Description	Mfr. Model	Item No.
Ferrous Metal Locator	19-550	**3XA25**
Magna-Trak MT202 Magnetic Locator	19-202SC	**1ELK5**
Magna-Trak 102 Magnetic Locator	19-557	**1ELK6**



No. 1ELK6

Cable Length Meter

Measures copper and aluminum cables, and covers the major wire gauges. Automatic temperature compensation; reads in feet and meters. Milliohm measurement capability measures from 15 to 30,000 ft. 5-yr. warranty.



Connector Type	Includes	Item No.
Kelvin Clip Leads	Soft Carrying Case, Copper Calibration Bars, Abrasive Pad, Test Leads	**29RM95**

AMPROBE Leica Megger RIDGID

Underground Utility Locators

Receiver (locator) and transmitter combine to trace buried wire, pipe, and cable lines to help avoid injury or underground utility damage during excavation operations.

LOCATORS

Amprobe® Underground Cable/Pipe Locator—Digital signal processing enables variable filtering, signal amplification, and noise reduction. Measures energized circuits with included inductive transmitter. Features fused voltage protection and 50/60 Hz passive tracing.

Leica Underground Utility Locator—Locates and traces energized lines up to 10 ft. deep. When used with the signal transmitter (Digitex), range can be over 5000 ft. and detect de-energized lines and pipes. Inductive and direct signal capabilities with 3 different frequencies.

Megger® Split Box Pipe/Cable Locator—Finds buried manhole covers and traces energized or de-energized cables up to several miles. Peak and null detection. 126 kHz output frequency. Inductive transmitter allows measurement of energized circuits.

RIDGID® Utility Locator—Antennas receive active and passive signals from all directions. Inductive and direct connection. Transmitter sold separately.

RIDGID High-Frequency Utility Locator—Can be configured with up to 30 frequencies. Continuously searches passive power and radio bands to locate and avoid unknown metallic lines. Traces energized lines and sondes (beacons) simultaneously. Inductive and direct coupling.

ACCESSORIES

Leica—Property connectors in No. 2VCX9 connect Signal Generator No. 2VCX5 to any standard 120V outlet to locate outside power supply. Service Tracer Mouse No. 2VCY1 is a dual-frequency standard sonde used with service locators and tracers to trace nonmetallic pipe. Signal Generator No. 2VCX5 includes connection cable set containing earth spike, and crocodile connection cable.

RIDGID Inductive Signal Clamp—Where direct connect is not possible, fits around 4" lines to apply a signal to cable or pipe. For use with RIDGID transmitters, sold separately.

RIDGID Transmitters—Use with RIDGID utility locators to locate buried utility lines.

No. 1DPH3 can transmit dual frequencies and audibly confirms good circuits; with two 10-ft. coil connectors. No. 1DPH4 displays line resistance, current flow, and power; with two 25-ft. coil connectors.

No. 2YCA4 induces at 8 kHz and 33 kHz for longer trace lines and low-distortion locates. Displays line resistance and current flow; with grounding stake and two 10-ft. coil connectors.



No. 4JNV5



No. 2VCX4


No. 3JG93


No. 2YCA5

Description	Depth Underground	Display	Audible Alert	Battery Type	Mfr. Model	Item No.
Underground Utility Locators						
Amprobe						
Underground Cable/ Pipe Locator	16 ft.	LCD	Yes	(6) D Batteries, (10) AA Batteries	AT-3500	**4JNV5**
Leica						
Underground Utility Locator	Up to 10 Ft.	LED Signal Strength Display Gives Peak Reading When Unit is Directly Over Service, Depth Estimation	Yes	(6) AA Batteries	LEICA DD120	**2VCX4**
Utility Service Locator	Can Exceed 15 ft., Depending on Soil Conditions and Transmitter Output	LCD	Yes	(6) AA Batteries	DD120 DEPTH KIT	**54GE17**
Megger						
Split Box Pipe/Cable Locator	—	—	Yes	(6) C Batteries	656902	**3JG93**
RIDGID						
Underground Utility Locator	Can Exceed 15 ft., Depending on Soil Conditions and Transmitter Output	Backlit Mapping Display	Yes	(6) C Batteries	21893	**1DPH2**
		LCD Mapping Display With Continuous Depth, Tracing Line, And Proximity Signal Strength Indicators	Yes	(6) C Batteries	22163	**2YCA5**

Description	For Use With	Features	Operating Frequency	Powered By	Mfr. Model	Item No.
Underground Utility Locator Accessories						
Leica						
Property Connection Set	—	—	—	—	PROPERTY CONNECTION SET US	**2VCX9**
Service Tracer Mouse	—	—	33 kHz	—	MINI SONDE 8/33	**2VCY1**
Signal Generator	Mfr. No. DIGICAT 550i, No. 2VCX4 Service Locator	Direct Connection, Use Signal Clamp, Induction	8, 33 kHz	(4) C Batteries	DA220 1 WATT	**2VCX5**
Carry Bag	Mfr. No. DIGICAT 550i Service Locators, Mfr. No. DIGITEX 100T Signal Locator and Mfr. No. DIGITRACE 30, DIGITRACE 50, DIGITRACE 80 Service Tracers	Large Size, Fits Two Main Service Locating, Tracing Instruments	—	—	850276	**2VCY2**
RIDGID						
Inductive Signal Clamp	Mfr. No. ST-305/21898, Mfr. No. ST-510/21903 and Mfr. No. ST-33Q/26168	(2) Built In LEDs Inform User the Clamp is Functioning Properly, An Integrated Adapter Allows Users to Attach a Hotstick for Out of Reach Lines	—	—	20973	**1DPH5**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Direct Connect Using Attached Clips, Induction from Optional Inductive Signal Clamp and Transmitter Coils	1, 8, 33 kHz	(6) C Batteries	21898	**1DPH3**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Direct Connect Using Attached Clips, Induction from Optional Inductive Signal Clamp and Transmitter Coils	0.128, 1, 8, 33 kHz	(8) D Batteries	21903	**1DPH4**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Versatility, Speed	10 to 490 kHz	(6) D Batteries	49338	**2YCA4**


No. 41D940


No. 1PX61


No. 4GE84


No. 6NZG4


No. 4YE87

Combination Tachometers

EXTECH INSTRUMENTS · AMPROBE · MONARCH INSTRUMENT · Nidec SHIMPO

Handheld instruments offer surface and noncontact measurement choices. Each includes batteries. NIST models include certificate and calibration documents.

EXTECH®

Tachometers and Laser Tachometers—Laser light source, except Nos. 8PMK7 and 22DC94 have visible light source. Each includes tip(s) and wheel for contact readings and reflective tape for noncontact.

Nos. 41D940 and 41D941 also measure length.

Tachometers with Infrared Thermometer—Make contact/noncontact speed measurements and noncontact surface temperature measurements.

- IR temp. range -4° to 600°F

AMPROBE®

Tachometer No. 6NGZ4—Makes contact/noncontact speed measurements with noncontact rpm. Infrared light source. Features selectable units in contact mode and data hold. Includes cone and funnel contact tips and reflective tape.

Tachometer No. 4FKR9—Measures rotational and surface speed, with selectable rpm/length units using the infrared beam or adapter. Includes 6 adapters, reflective tape, and carrying case.

- Meter/foot/inch length measurements

MONARCH INSTRUMENT

Laser Tachometer and Kit—Pocket Laser Tach 200 is a 32-function tachometer/rate-meter, totalizer/counter, and timer (stopwatch). Fixed decimal points. TTL compatible pulse output can trigger data collectors or stroboscopes. Accepts remote optical sensor No. 3WB47, sold separately on page 567. Tripod mountable.

Instrument No. 4YE86 includes 12" reflective tape. Kit No. 4YE87 adds remote contact assembly with concave and convex tips, 10cm linear scope wheel, 5-ft. reflective tape, and carrying case.

SHIMPO

Tachometers—Measure rotational, linear, and surface speed plus total length. 10-measurement memory. Complete with 2 cone tips, funnel tip, extension shaft, and carrying case. Speed wheel included: 6" with Nos. 21YD75 and 21YD76, 12" with Nos. 21YD77 and 21YD78.

Description	Speed (FPM)	Noncontact RPM Range	Contact RPM Range	RPM Accuracy	Memory	Display	Calibration Certificate	Working Distance	Mfr. Model	Item No.
Extech										
Laser Tachometers	0 to 6560	2 to 99,999	2 to 20,000	±0.05% +1 Digit	10 Data Sets	Backlit LCD	No	1.6 ft.	RPM33	**41D940**
	0 to 6560	2 to 99,999	2 to 20,000	±0.05% +1 Digit	10 Data Sets	Backlit LCD	Yes	1.6 ft.	RPM33-NIST	**41D941**
Tachometers	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	6.5 ft.	461995	**1PX61**
	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	6.5 ft.	461995-NIST	**2HZB9**
Tachometers	0.20 to 6560	5 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	0.5 ft.	461895	**8PMK7**
	0.20 to 6560	5 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	0.5 ft.	461895-NIST	**22DC94**
Tachometer with Infrared Thermometer	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	6.5 ft.	RPM10	**4GE84**
	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	6.5 ft.	RPM10-NIST	**2HZC1**
Amprobe										
Tachometers	3 to 30,000	10 to 99,999	10 to 19,999	±1% of Reading ±2 Digits	No	LCD	No	1 ft.	TACH-10	**6NZG4**
	0.40 to 6550	1 to 99,999	1 to 19,999	±0.02% ±1 Digit	Built in	LCD	No	2 ft.	TACH-20	**4FKR9**
Monarch										
Laser Tachometers	0.16 to 6562	5 to 200,000	0.5 to 20,000	±0.01% of Reading	Last/Min/Max	5 Digit +5 Alpha Numeric LCD	Yes	25 ft.	PLT200	**4YE86**
	0.16 to 6562	5 to 200,000	0.5 to 20,000	±0.01% of Reading	Last/Min/Max	5 Digit +5 Alpha Numeric LCD	Yes	25 ft.	PLT200 KIT	**4YE87**
Shimpo										
Tachometers	0.40 to 12,500	6 to 99,999	0.8 to 25,000	±0.006% of Reading ± 1 Digit	Last/Min/Max	5 Digit LCD	Yes	20 ft.	DT-205LR	**21YD75**
	0.40 to 12,500	6 to 99,999	0.8 to 25,000	±0.006% of Reading ± 1 Digit	Last/Min/Max	5 Digit LED	Yes	20 ft.	DT-207LR	**21YD76**
	0.80 to 25,000	6 to 99,999	0.8 to 25,000	±0.006% of Reading ± 1 Digit	Last/Min/Max	5 Digit LCD	Yes	20 ft.	DT-205LR-S12	**21YD77**
	0.80 to 25,000	6 to 99,999	0.8 to 25,000	±0.006% of Reading ± 1 Digit	Last/Min/Max	5 Digit LED	Yes	20 ft.	DT-207LR-S12	**21YD78**
	0 to 6560	6 to 99,999	6 to 25,000	—	Last/Min/Max/10 user logged measurements, retained for 5 minutes	Digital LCD	Yes	6 ft.	MT-200	**45AE68**
	0.40 to 12,500	6 to 99,999	1 to 25,000	—	1000 Readings	—	Available Separately	—	DT-2100	**49VY90**


No. 3BY11

Analog and Digital Contact Tachometers

WESTWARD · EXTECH INSTRUMENTS · Nidec SHIMPO

Westward®

- Analog
- 2½" dial
- Reads clockwise and counterclockwise

Extech®—Each includes interchangeable cone, flat tips, surface speed wheel, carrying case, and AA batteries.

- Digital
- Max./min. values

Shimpo—Measure rotational, linear, and surface speed plus total length. 10-measurement memory. Each includes 2 cone tips, funnel tip, extension shaft, speed wheel, carrying case, and AA batteries. Nos. 21YD66 and 21YD67 have a standard 6" speed wheel. Nos. 21YD68 and 21YD69 have a 12" wheel for enhanced accuracy with high-speed readings.

- Digital
- Last/max./min. recall
- 16 selectable units


No. 1PX59


No. 21YD68

Item	Speed (FPM)	Contact RPM Range	RPM Accuracy	Display	Calibration Certificate	Mfr. Model	Item No.
Westward							
Analog Dial Tachometer	—	50 to 4000	±3%	—	No	3BY11	**3BY11**
Extech							
Tachometer	0.20 to 6560	0.5 to 20,000	±0.05%	5 Digit LCD	No	461891	**1PX59**
	3 to 6560	10 to 20,000	±0.1% of Reading +2 Digits	—	No	461750	**8PPJ5**
Shimpo							
Tachometer	0.05 to 12,500	0.10 to 25,000	±0.006% of Reading ± 1 Digit	5 Digit LCD	Yes	DT-105A	**21YD66**
	0.05 to 12,500	0.10 to 25,000	±0.006% of Reading ± 1 Digit	5 Digit LED	Yes	DT-107A	**21YD67**
	0.10 to 25,000	0.10 to 25,000	±0.006% of Reading ± 1 Digit	5 Digit LCD	Yes	DT-105A-S12	**21YD68**
	0.10 to 25,000	0.10 to 25,000	±0.006% of Reading ± 1 Digit	5 Digit LED	Yes	DT-107A-S12	**21YD69**


No. 1TZP5


No. 22DC89


No. 4YE85


No. 5URH0

Noncontact Tachometers

GRAINGER APPROVED · EXTECH INSTRUMENTS · MONARCH INSTRUMENT

Each includes reflective tape for targeting. No. 5URH0 also includes USB cable.

Extech®—Nos. 1TZP5 and 6RGL0 employ a laser light source for noncontact rpm measurements from long distances. On-target indicator. With 9V battery.

Nos. 22DC89 and 22DC93 take rpm and speed measurements updated every second. Autoranging. With AA batteries.

- Max./min. values

Monarch Instrument—Pocket Tach 99 accepts tripod mount. With AA batteries.

- Autoranging
- Selectable max./min./last reading
- Fixed decimal points
- LED light source

Item	Noncontact RPM Range	RPM Accuracy	Display	Calibration Certificate	Working Distance	Mfr. Model	Item No.
Extech							
Laser Tachometer	2 to 99,999	±0.05%	5 Digit LCD	No	1.6 ft.	461920	**1TZP5**
Tachometer with Counter	2 to 99,999	±0.05%	5 Digit LCD	Yes	1.6 ft.	461920-NIST	**6RGL0**
Tachometer	5 to 99,999	±0.05%	5 Digit LCD	No	0.5 ft.	461893	**22DC89**
	5 to 99,999	±0.05%	5 Digit LCD	Yes	0.5 ft.	461893-NIST	**22DC93**
Monarch							
Tachometer	5 to 99,999	±0.01% ±1 Digit	5 Digit +5 Alpha Numeric LCD	No	3 ft.	PT99	**4YE85**
Westward							
Tachometer	10 to 99,999	±0.04% ±2 Digits	LCD	No	0.65 ft.	5URH0	**5URH0**

Stroboscopes and Tachometers

EXTECH INSTRUMENTS | FLUKE | MONARCH INSTRUMENT | Nidec SHIMPO

EXTECH®

Digital Stroboscope/Tachometer— Handheld instrument has xenon flashtube light source. Includes 6-ft. power cord and lamp.

FLUKE®

Digital LED Stroboscope—High-intensity 7-LED array in high-efficiency, uniform-flash LED light source, which combines with digital pulse width modulation to return exceptionally sharp images at high speeds.

MONARCH INSTRUMENT

Rechargeable digital strobes provide continuous safe, cool operation. Fully backlit LCD. Each includes standard 120V charger for internal rechargeable battery. Battery life: LED 8 hr. and xenon 2 hr. Kits add spare lamp and carrying case.

Basic Stroboscopes and Kits—Digital control. Superbright LED or xenon flashtube light source.

Deluxe Stroboscopes and Kits— Multibutton keypads for x2/÷2 brightness adjust, visual phase shift, and tach mode. 8 to 10 hr. run time for LED. 3-hr. recharge time.

- Internal phase shift
- TTL input/output jacks
- Superbright LED or xenon flashtube light source

Phaser Stroboscopes and Kit—Allows degrees phase shift and time delay from external trigger. Multibutton keypad for advanced intuitive control. High-power charger/supply for continuous operation.

- External phase shift
- TTL input/output connectors
- Superbright LED or xenon flashtube light source

PLS Pocket Strobe and Kit—Provides a uniform light output for visual diagnostic inspection and rpm measurements. Features external input for remote triggering or tachometer mode, pulse output and memory for up to 5 present flash rates. 5- to 6-hr. run time.

SHIMPO

Stroboscope No. 29FK02—Compact LED scope has coarse/fine tuning and user-defined flash rate memory storage. 5-digit display.


No. 5AY35


No. 40JW34


No. 36J797

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Digital Stroboscope Lamp	1UFK8, 1UFK9, 1ULF1 to 1ULF3	Monarch	L-1903	**1TC14**
Digital Stroboscope Lamp	Mfr. No. 461830, 461831	Extech	461834	**5AY37**
Latching Carrying Case	1UFK8, 1UFK9, 1ULF1, 1ULF2	Monarch	CC-7	**1TC40**
Remote Optical Sensor	1UFL1 to 1UFL3	Monarch	ROS-P	**3WB47**

Item	Flashes per Minute	RPM Range	Res.	Flash Duration	Display	Power Req.	Mfr. Model	Item No.
Extech								
Digital Stroboscope	100 to 10,000	100 to 10,000	0.1 Flashes Per Minute	60 to 1000 uSec	4-Digit LED	115 VAC 60 Hz	461830	**5AY35**
Fluke								
Digital LED Stroboscope	30 to 300,000	—	0.1 to 1.0 FPM	1 to 33,333 uSec	LCD Alphanumeric	(3) AA batteries	FLUKE-820-2	**40JW34**
Monarch								
Basic Battery LED Strobe	30 to 500,000	—	0.01 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6230-110	**36J793**
Basic Battery LED Strobe Kit	30 to 500,000	—	0.01 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6230-111	**36J794**
Basic Stroboscope	30 to 10,000	—	0.01 FPM	8 to 20 uSec	6 Digit LCD	Rechargeable NiMH	6207-110	**1UFK8**
Basic Stroboscope Kit	30 to 10,000	—	1 FPM	8 to 20 uSec	6 Digit LCD	Rechargeable NiMH	6207-111	**1UFK9**
Deluxe Battery LED Strobe Kit	30 to 500,000	0-500,000	0.01 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	DBL Kit	**36J796**
Digital Stroboscope	30 to 20,000	—	0.01 FPM	8 to 20 uSec	6 Digit LCD	Rechargeable NiMH	6204-110	**1UFL1**
Digital Stroboscope	30 to 999,999	0 to 999,999	0.001 FPM	Adj. to 14 Degrees/1000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6241-020	**52VG66**
Digital Stroboscope Kit	30 to 20,000	5 to 250,000	0.01 FPM	8 to 20 uSec	6 Digit LCD	Rechargeable NiMH	6204-111	**1UFL2**
Digital Stroboscope Kit	30 to 999,999	0 to 999,999	0.001 FPM	Adj. to 14 Degrees/1000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6243-011	**52VG63**
Digital Stroboscope Kit	30 to 999,999	0 to 999,999	0.001 FPM	Adj. to 14 Degrees/1000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6241-021	**52VG68**
Phaser Battery LED Strobe	30 to 500,000	0-500,000	0.01 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	PBL	**36J797**
Phaser Battery LED Strobe Kit	30 to 500,000	0-500,000	0.01 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	PBL Kit	**36J798**
Pocket LED Strobe	30 to 300,000	30-300,000	0.01 to 1.0 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	6235-110	**36J799**
Pocket LED Strobe Kit	30 to 300,000	30-300,000	0.01 to 1.0 FPM	Adj. to 14 Degrees/3000 usecs.	LCD Alphanumeric	115/230 50/60 Hz	PLS Kit	**36J801**
Shimpo								
Digital Stroboscope	User Selectable	40 to 35,000	0.1 FPM	10 to 40 uSec	5-Digit LED	115VAC 50/60 Hz	DT-315A	**411G93**
Stroboscope	60 to 40,000	60 to 40,000	0.1 to 1.0 FPM	Fixed. Adjusts by Rate	5 Digit Backlit LCD	(4) AA Batteries	ST-1000	**29FK02**

EXTECH INSTRUMENTS | MONARCH INSTRUMENT | Nidec SHIMPO

1/8-DIN Panel Tachometers and Sensors

PANEL TACHOMETERS

Extech® No. 5AY32—Permits rpm measurements of a 1-hole gear or disc, eliminating the need for special gears. Display updates once per sec. Resolution: 0.1 rpm.

Monarch Instrument No. 4KF46—Universal-input instrument for 2- and 3-wire sensors requires 1 pulse per revolution.

Monarch Nos. 5TDG6 and 5TDG7—Programmable universal-input instruments for 2- and 3-wire sensors measure mph, cm/sec., and other units, including linear rate of travel when using 2 sensors. 1 pulse per revolution. 2 setpoints for high/low alarm. RS-232C interface.

SENSORS

Extech Photoelectric Sensor— Generates a light beam with a 0.4" (10mm) target opening.

Proximity Sensors—For use with ferrous/nonferrous metals.

Extech No. 5AY33 measures a pulse when a metallic object (stud) passes by the sensor. Min. object detection size: 0.07" x 0.11" (2mm x 3mm).

Monarch No. 4KF50 has an inductive probe that allows use with a 0.5" metallic target (bolt head or keyway).

Monarch Magnetic Sensor—As distance increases, output signal decreases. Includes 8-ft. cable and mounting nut.

- For use with ferrous metal gear teeth; min. target size 0.001"

Monarch Remote Optical Sensor—Stainless steel sensor operates up to 3 ft. and 45° from reflective target. Includes mounting bracket and 12" reflective tape. Additional reflective tape sold separately.

- LED light source and on-target indicator
- For use with reflective tape


No. 5TDG6


No. 5AY33


No. 3A145

Description	Accuracy	Power Req.	RPM	Mfr. Model	Item No.
Panel Tachometers					
Extech 4 Digit LED Panel Meters					
Panel Tachometer	±0.05%	110/220 VAC	5 to 99,990	461950	**5AY32**
Monarch 5 Digit LED Panel Meters					
Panel Tachometer	±1 RPM	115 VAC	5 to 99,999	ACT-1B/115	**4KF46**
Panel Tachometer, 0 to 5VDC Output	±0.0015%	100 to 240 VAC, 50/60 Hz	5 to 999,990	ACT-3X-1-1-3-1-1-0	**5TDG6**
Panel Tachometer, 4 to 20 mADC Output	±0.0015%		5 to 999,990	ACT-3X-1-1-4-1-1-0	**5TDG7**
Sensors					
Extech					
Photoelectric Sensor	—	—	5 to 6000	461957	**5AY34**
Proximity Sensor	—		5 to 36,000	461955	**5AY33**
Monarch					
Proximity Sensor	—	—	1 to 60,000	P5-11	**4KF50**
Magnetic Sensor	—		1 to 100,000	M-190W	**4KF49**
Remote Optical Sensor	—		1 to 250,000	ROS-W	**3WB46**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Extech			
Contact Adapters	Mfr. No. RPM10, 461995, 461891	461899	**4GE86**
Reflective Tape	All Noncontact Tachometers	461937	**2FRU1** *
Monarch			
Latching Carrying Case	Mfr. No. PT99, PLT200 and PLT200 KIT	CC-11	**1WAD6**
Padded Pouch		CC-10	**1WAD2**
Reflective Tape	All Noncontact Tachometers	T-5	**3A145**
Shimpo			
Circumference Wheel	DT-105A, DT-107A, DT-205LR, DT-207LR	FPM-6	**21YD73**
Circumference Wheel	DT-105A-S12, DT-107A-S12, DT-205LR-S12, DT-207LR-S12	FPM-12	**21YD74**
Cone Adapter	DT-105A, DT-107A, DT-105A-S12, DT-107A-S12, DT-205LR, DT-207LR, DT-205LR-S12, DT-207LR-S12	CONE	**21YD70**
Contact Adapter	DT-205LR, DT-207LR, DT-205LR-S12, DT-207LR-S12	DT-ADP-200LR	**21YD79** †
Extension Shaft	DT-105A, DT-107A, DT-105A-S12, DT-107A-S12,	EXT-SHAFT	**21YD72**
Funnel Adapter	DT-205LR, DT-207LR, DT-205LR-S12, DT-207LR-S12	FUNNEL	**21YD71**

** Pkg. of 10. † Compatible only with Shimpo Combination Tachometers sold on page 566.*


No. D2978


No. D1773


No. 1LYP5

Tension/Compression Digital Force Gauges

Measure standard and peak tension (pull) or compression (push) of mechanical items and systems.

SHIMPO
- 1000 Hz sampling rate
- LCD with reversible viewing direction

Gauges feature standard or peak measurement modes, force direction indication, and reversible keypad. Auto-Off can be disabled for continuous use with included AC adapter/charger. Each includes tension attachment (hook), compression attachments (chisel, flat, notched, and cone), metric/English thread adapter, extension rod, and hanger.

FGE-HXY and FGE-XY—Feature peak hold. Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lbs., kg, or Newton units (5- to 500- lb. range).

FGV-HXY and FGV-XY—With selectable High/Low comparator, onboard min./max./peak/avg./standard deviation, and continuous and single memory options. Software package, RS-232/USB/analog outputs, and USB cable for data export and analysis. Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lb., kg, or Newton units (5- to 1000-lb. range).

EXTECH®
- 5-digit LCD with reversible viewing direction

Feature peak hold and zero/tare functions. 0.2 (fast) and 0.6 sec. (slow) response time settings. Each includes AA batteries. Optional data acquisition software with RS-232 cable No. 1CLF1 and optional USB adapter cable No. 1CLF2, sold separately on Grainger.com®

Force Gauge/Data Loggers and Gauges with 44-lb. and 176-oz. Capacity—Feature load cell measurement transducer with tension adapter (hook), compression adapters (flat, cone, and chisel), and 5" extension rod.

Force Gauge with 220-lb. Capacity—RS-232 interface for data export. Backlit display. Includes tension and compression adapters (hooks), S-type load cell, and 6½-ft. cable.

Description	▶CHOOSE: Range	Item No.
Shimpo Digital Force Gauge		
FGE-HXY Series	0 to 200 lb. • 0 to 500 lb.	D2978
FGE-XY Series	0 to 0.5 lb. • 0 to 1 lb. • 0 to 2 lb. • 0 to 5 lb. • 0 to 10 lb. • 0 to 20 lb. • 0 to 50 lb. • 0 to 100 lb.	D1783
FGV Series	100N	45AE77
FGV Series	500N	45AE78
FGV Series	1000N	45AE79
FGV-XY Series	8 Oz, 0.5 lb, 200 g, 2 N • 16 Oz, 1 lb, 500 g, 5 N • 32 Oz, 2 lb, 1000 g, 10 N • 5 lb, 2 Kg, 20 N • 10 lb, 5 Kg, 50 N • 20 lb, 10 Kg 100 N • 50 lb, 20 Kg, 200 N • 100 lb, 50 Kg, 500 N • 200 lb, 100 Kg, 1000 N	D1773
Shimpo Digital Torque Meter		
TNP Series	10.00 N-m, 1000 N-cm, 102.0 Kg-cm, 88.5 lb.-in.	D1786
Shimpo High Capacity Digital Force Gauge		
FGV-HXY Series	500 lb., 250kg, 2500 N	23MD82
FGV-HXY Series	1,000 lb., 453.6kg, 4448 N	23MD81

Range	Accuracy	Mfr. Model	Item No.
Extech Digital Forge Gauge			
44 Lb, 20 kg, 196 N	—	475044-NIST	9MZ93
Extech Digital Force Gauge			
44 lb./20 Kg/196 N	±0.5% + 2 Digits	475044	1TZ42
176 oz./5000 gm/49 N	±0.4% + 1 Digit	475040	3ZH93
176 oz./5000 gm/49 N	±0.4% + 1 Digit	475040-NIST	6TNH9
220 lb./100 Kg/980 N	±0.5% + 0.1 Lb, 0.1 Kg or 0.4 N	475055	1LYP5
Extech AC Adapter			
AC Adapter		153117	3ZH65


No. D1784

Tension/Compression Mechanical Force Gauges

- Accuracy: ±0.2%
- Dial indicator

Measure tension (pull) or compression (push) in real time or peak mode for assembly line quality control. 165-lb. overload protection safeguards against damage. Each includes compression attachments (flat, chisel, notched, and cone), tension attachments (hook, large hook, and large V-hook), extension rod, and carrying case.

▶**Please choose:** To order, specify range in lb. or kg from table.

▶CHOOSE: Pounds (lb.)		▶CHOOSE: Kilograms (kg.)	
2	30	1	10
5	50	2	20
10	100	3	30
20	—	5	50

Measuring Units	Item No.
Pound	D1784
Kilogram	D1785


No. 1AEV9


No. 13X135


No. 13X134


No. 38NJ28


No. 6KX53

Heavy-Duty Vibration Meters

Batteries and carrying case are included.

EXTECH®

Digital Vibration Meter Kits—Measure velocity, acceleration, and displacement. Feature Min./Max. and RMS or peak value measurement. With built-in RS-232 interface and LCD. Each includes remote vibration sensor with 3.9-ft. cable, magnetic mount, and holster. Can store and analyze data with optional software and cable No. 1CLF1, sold separately on Grainger.com®.

Pen Vibration Meter—Measures RMS acceleration and velocity, with zero adjustment and low battery indicator. Housing is IP65 dust-tight and waterproof. Includes pin-tip probe, and magnetic mount.

Vibration Meter/Data Loggers Nos. 13X134 and 43Y050—Measure velocity, acceleration, and displacement. Feature Min./Max., RMS/Peak/Max. Hold modes, and selectable sampling rate from 1 to 3600 sec. Retain up to 99 readings, or use included 2G SD card to store datalogs for analysis. Include remote vibration sensor with magnetic mount on 47.2" cable.

MONARCH INSTRUMENT

Vibration Tester—Meter/stethoscope system measures acceleration, velocity, and acceleration enveloping. Features bearing gear check and LCD. Includes accelerometer with cable, headphones, magnetic base, and stinger.

TPI®

Vibration Meters—These easy-to-use vibration monitoring and analysis tools display vibration signals. Automatically perform vibration analysis functions based on machine running speed to help diagnose faults such as unbalance, misalignment, and looseness. Designed for use with assets like pumps, motors, fans, or bearings.

Item	Accel. Range	Frequency Range (Hz)	Vel.	Display	Auto Power Off	Data Hold	Battery Type	NIST	Mfr. Model	Item No.
Extech										
Digital Vibration Meter Kit	2 to 656 ft/s² or 0.5 to 200 m/s²	10 to 1 K	0.02 to 7.87 In/s or 0.5 to 200mm/s	LCD	Yes	Yes	9V	No	407860	1AEV9
	2 to 656 ft/s² or 0.5 to 200 m/s²	10 To 1 K	0.02 to 7.87 In/s or 0.5 to 200mm/s	LCD	Yes	Yes	9V	Yes	407860-NIST	6RGK2
Pen Vibration Meter	656ft/s2, 200m/s2, 20.39g	10 to 1 K	7.87in/s, 200mm/s, 19.99cm/s	LCD	No	Yes	(4) AAA	No	VB400	13X135
Vibration Meter/ Datalogger	656ft/s2, 200m/s2, 20.39g	10 to 1 K	7.87in/s, 200mm/s, 19.99cm/s	Backlit LCD	With Disable	Yes	(6) AA	No	SDL800	13X134
	656ft/s2, 200m/s2, 20.39g	10Hz to 1 KHz	7.87in/s, 200mm/s, 19.99cm/s	Backlit LCD	With Disable	Yes	(6) AA	Yes	SDL800-NIST	43Y050
Monarch										
Vibration Tester	0.01 to 19.99g	10 to 10 K	0.01 to 19.99 In/s0.1 to 199.9mm/s	LCD	—	Yes	(2) AA	—	Examiner 1000	6KX53
Test Products Intl.										
Vibration Meter	0.01 g to 50g	2/10 Hz to 1 KHz ISO, 1 KHz to 10kHz Bearings	0-25mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9070	38NJ28
	0.01 g to 60g	2/10 Hz to 1 KHz ISO, 1 KHz to 10kHz Bearings	0-25mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9080	38NJ29
Vibration Tester	1 to 1000 mV/g	10 Hz to 10 kHz	720mm/sec	Full Color OLED	Yes	No	(2) AA	Yes	9080K2	400R50

Coating Thickness Gauges

DeFelsko® Inspection Instruments EXTECH INSTRUMENTS REED INSTRUMENTS

METAL TESTING

- Ferrous metals such as steel or iron
- Nonferrous metals such as brass, aluminum, or copper

PosiPen®—Pen-type, pull-off gauge is permanently calibrated to measure small steel parts, hot surfaces (up to 450°F), and hard-to-reach places. Includes leather pouch and calibration certificate.

PosiTest® FM and GM—Permanently calibrated, mechanical pull-off gauges measure nonmagnetic coatings on steel only. Each includes wrist strap, leather pouch, and calibration certificate.

Thickness Tester—Provides automatic substrate recognition: magnetic induction for ferrous substrates, eddy current measurement for nonferrous. Features single and continuous measuring modes; direct and group working modes with memory storage of 400 readings: 80 direct and 320 group. Includes user-settable high/low alarms, min./max./average measurement, and 1- or 2-point calibration. Comes with USB interface cable, software, calibration iron, calibration aluminum, precision standards, AAA batteries, and carrying case.

PosiTest DFT, Nos. 2GE21 and 2GE22—Compact digital units include wrist strap, precision plastic shims, 2 AAA batteries, and hard carrying case. Features zero and 1-point calibration adjustments. Displays the average for up to 99 measurements. No. 2GE21 measures coatings on steel. No. 2GE22 measures coatings on steel and aluminum.

PosiTector® 6000—Instruments feature no calibration adjustment required for most applications, 1- or 2-point adjustment. Average zero feature, mils/microns/mm switchable, adjustability to known thicknesses, and high-resolution mode. Provide audible and visible high/low limit alerts, calculations of average, standard deviation, and min./max. thickness. Standard models Nos. 12Y318 and 12Y320 have a 250-reading memory capacity. Advanced models Nos. 12Y319 and 12Y321 feature 100,000/1000 group reading memory capacity, Scan mode, on-screen batch annotation, and data transfer via USB, WiFi®, or Bluetooth®. All models include rubber holster with belt clip, USB cable, PosiSoft® software, nylon case, and NIST calibration certificate.

NONMETAL TESTING

PosiTector 200—Each includes plastic shims, protective rubber holster, 1 bottle ultrasonic couplant, USB cable, PosiSoft software, nylon carrying case, AAA batteries, and NIST calibration certificate.



No. 5GTH1


No. 2GE21



No. 12Y318


No. 2GE25


No. 2GE23

Type	Measuring Range	Recording Cap.	Accuracy	Calibration Certificate	Battery Type	Brand	Item No.
ABS Plastic							
Standard Electronic	0 to 250 Mils	250	±(0.5 mils + 1%) 0 to 100 mils, ±(0.5 mils + 3%), 100 mils, ±(0.01 mm + 1%) 0 to 2.5 mm, + (0.01 mm + 3%), 2.5 mm	NIST	AAA	Defelsko	**54GC58**
Ferrous and Non-Ferrous Metals							
Electronic PosiTest DFT	0 to 40	10 Records	±0.1 mils + 3%	—	—	Defelsko	**2GE22**
Electronic	0 to 49 Mils, 0 to 1250 Microns	400	±(3% reading + 0.04 mils) ferrous, ±(3% reading + 0.06 mils) non-ferrous	—	AAA	Extech	**5GTH1**
Electronic PosiTector 6000	0 to 60	250	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**12Y320**
Electronic PosiTector 6000	0 to 60	100,000	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**12Y321**
Electronic	0 to 60 Mils	—	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**5URV5**
Electronic	0 to 60 Mils	10000	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**5URV7**
Ferrous and Non-ferrous	0 to 80 Mils	250	±4(0 to 7.8 mils), ±3% (7.9 to 39 mils), ±5% (39.1 to 80 mils)	—	AAA	Extech	**40JK42**
Ferrous Metals							
Electronic	0.03 to 15.7" (0.65 to 400mm)	500	0.002"	—	—	Reed Instruments	**5ZZK68**
Electronic	0.05" to 7.9"	—	±0.004"	No	—	Reed Instruments	**161F01**
Electronic PosiTest DFT	0 to 40	10 Records	±0.1 mils + 3%	Yes	—	Defelsko	**2GE21**
Electronic PosiTector 6000	0 to 60	250	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**12Y318**
Electronic PosiTector 6000	0 to 60	100,000	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**12Y319**
Electronic	0 to 60 Mils	—	±(0.05 mils + 1%) up to 2 mils then ±(0.1 mils + 1%)	NIST	AAA	Defelsko	**5URV2**
Mechanical PosiPen	0.25 to 20	—	±10% + 0.1 mil	—	—	Defelsko	**2GE25**
Mechanical PosiTest GM	0 to 8	—	±0.04 mils up to 0.8 mils, ±5% over 0.8 mils	—	—	Defelsko	**2GE24**
Mechanical PosiTest FM	0 to 80	—	±0.2 mils up to 4 mils, ±5% over 4 mils	—	—	Defelsko	**2GE23**
Non Metals Such As Concrete, Wood And Composite							
Standard Electronic PosiTector 200	0.5 to 40	250	±0.1 mils + 3%	NIST	AAA	Defelsko	**1CTD1**

Ultrasonic Wall Thickness Gauges

DeFelsko® Inspection Instruments CorDEX EXTECH INSTRUMENTS

DEFELSKO®

PosiTector® ultrasonic thickness gauges (UTGs) measure wall thickness of materials such as steel, aluminum, plastic, and more. Flip display for right-side-up viewing in-hand or on work table. Accuracy: ±0.001", ±0.03mm. 250-reading memory. Each includes 5 MHz probe, protective rubber holster, couplant, USB cable, PosiSoft® software, AAA batteries, nylon carrying case, and calibration certificate. Conform to ASTM E797.

UTG C (Corrosion)—Measures the effects of corrosion or erosion on tanks, pipes, or any structure accessible on 1 side only. Excellent for rough surfaces and heavily corroded applications. Scan mode for quick inspection over a large area.

UTG M (Multiple Echo)—Features through-paint capability to measure the metal thickness of a painted structure without removing the coating.

CORDEX INSTRUMENTS

UT5000 Intrinsically Safe—Provides nondestructive testing and predictive maintenance on pipelines and fixed equipment in hazardous locations. Built-in RFID+ software tags measurements with their locations along the pipeline and then organizes the data to give engineers the view at any specific location. Corrosion mode helps identify thinning spots. Accuracy: ±0.05mm (0.002").

EXTECH

Compact, rugged meters for nondestructive thickness measurements. No. 20LK16 features a 5 MHz probe, dot-matrix display, high-impact housing, and ability to capture minimum thicknesses. IP54 rated. No. 20LK17 includes echo-to-echo option to reduce coating errors, B-scan, and vibrate on alarm. No. 20LK18 has a color LCD, live waveform, file compare feature as a real-time corrosion monitor, dynamic change of waveform color on alarm, and grid review of saved readings.



No. 1XTG3


No. 12M768



No. 20LK18

Description	Measuring Range	Measurement Rate	Recording Cap.	Item No.
DeFelsko				
UTG C1, Corrosion	0.040 to 5.0" (1 to 125mm)	6 Readings/Sec.	250	**1XTG3**
UTG M1, Through Paint	0.100 to 5.0" (2.5 to 125mm)	3 Readings/Sec.	250	**2DPP2**
CorDEX				
UT5000, Intrinsically Safe	0.160 - 4.00"	1-8Hz (User Defined)	1000 Readings	**12M768**
Extech				
Primarily Steel	0.040" to 20"	4 to 20 sec.	—	**20LK16**
Primarily Steel, Recording	0.040" to 20"	4 to 20 sec.	5000 Readings	**20LK17**
Primarily Steel, Recording with Color Waveform	0.040" to 20"	4 to 20 sec.	5000 Readings	**20LK18**

Differential Pressure Gauges, Switch, and Adapter Kits

GAUGES

- ⅛" NPT side and rear pressure connections

Versatile gauges measure fan and blower pressure, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems, and fluid amplifier/fluidic system pressure. Quickly indicate low air and compatible gas pressures—positive, negative (vacuum), or differential.

Magnehelic®—Series 2000 instruments are highly resistant to shock and vibration. Include 2 NPT plugs, 2 NPT to 3/16" I.D. rubber tubing adapters, and 3 mounting adapters.

- Die-cast aluminum case, 4" dial
- Plastic window



Magnehelic® Differential Pressure Gauge



Photohelic® Differential Pressure Gauge with Relay



Differential Pressure Switch



Portable Kit



Air Filter Kit

Photohelic® with Relay—Series A3000 Photohelic® switch/gauges function as versatile, highly repeatable pressure switches combined with a precise pressure gauge employing the time-proven Magnehelic® gauge design. Photohelic® switch/gauges measure and control positive, negative or differential pressures of air and compatible gases.

- 2 DPDT (double pole double throw) switches rated 10A at 28VDC, 10A at 120/240VAC
- Power required: 120VAC 60/50 Hz
- Aluminum case, 4½" dial

SWITCH

- SPDT switch, 1 NO/1 NC, 1-phase

Adjustable-range switch is great for HVAC applications: It has a dual-scale adjustment knob (in H_20 and Pa) to change settings without a pressure gauge. Barb connection for ¼" I.D.

ADAPTER KITS

Portable Kit—Adapts Magnehelic DP gauge for portable use.

Air Filter Kit—Adapts Magnehelic DP gauge to an air filter gauge. Eliminates filter replacement guesswork when installed across filter bank.

Range*	Velocity Range	Rated Total Pressure	Accuracy	Mfr. Model	Item No.
Magnehelic Differential Pressure Gauges					
Pressure					
0 to 0.25" H2O	—	-20" Hg to 15 psi	±4.00%	2000-00	**3T314**
0 to 0.50" H2O	—	-20" Hg to 15 psi	±3.00%	2000-0	**3T315**
0 to 1" H2O	—	-20" Hg to 15 psi	±2.00%	2001	**3T316**
0 to 2" H2O	—	-20" Hg to 15 psi	±2.00%	2002	**3T317**
0 to 3" H2O	—	-20" Hg to 15 psi	±2.00%	2003	**1W489**
0 to 4" H2O	—	-20" Hg to 15 psi	±2.00%	2004	**1W487**
0 to 5" H2O	—	-20" Hg to 15 psi	±2.00%	2005	**3T318**
0 to 6" H2O	—	-20" Hg to 15 psi	±2.00%	2006	**1W485**
0 to 8" H2O	—	-20" Hg to 15 psi	±2.00%	2008	**1W483**
0 to 10" H2O	—	-20" Hg to 15 psi	±2.00%	2010	**3T319**
0 to 15" H2O	—	-20" Hg to 15 psi	±2.00%	2015	**1W481**
0 to 20" H2O	—	-20" Hg to 15 psi	±2.00%	2020	**1W479**
0 to 25" H2O	—	-20" Hg to 15 psi	±2.00%	2025	**3T320**
0 to 30" H2O	—	-20" Hg to 15 psi	±2.00%	2030	**1W477**
0 to 40" H2O	—	-20" Hg to 15 psi	±2.00%	2040	**1W475**
0 to 50" H2O	—	-20" Hg to 15 psi	±2.00%	2050	**3T321**
0 to 60" H2O	—	-20" Hg to 15 psi	±2.00%	2060	**1W473**
0 to 100" H2O	—	-20" Hg to 15 psi	±2.00%	2100	**3T322**
0.25" to 0 to 0.25" H2O	—	-20" Hg to 15 psi	±3.00%	2300-0	**1W471**
1" to 0 to 1" H2O	—	-20" Hg to 15 psi	±2.00%	2302	**1W469**
5" to 0 to 5" H2O	—	-20" Hg to 15 psi	±2.00%	2310	**1W467**
15" to 0 to 15" H2O	—	-20" Hg to 15 psi	±2.00%	2330	**1W465**
0 to 5 psi	—	-20" Hg to 15 psi	±2.00%	2205	**3T323**
0 to 10 psi	—	-20" Hg to 35 psi	±2.00%	2210	**3T324**
0 to 15 psi	—	-20" Hg to 35 psi	±2.00%	2215	**3T325**
0 to 30 psi	—	-20" Hg to 80 psi	±2.00%	2230	**3T326**
Pressure and Air Velocity					
0 to 0.25" H2O	300 to 2000 fpm	-20" Hg to 15 psi	±4.00%	2000-00AV	**3T295**
0 to 0.50" H2O	500 to 2800 fpm	-20" Hg to 15 psi	±3.00%	2000-0AV	**3T064**
0 to 1" H2O	500 to 4000 fpm	-20" Hg to 15 psi	±2.00%	2001AV	**2T644**
0 to 2" WC	0 to 5600 fpm	-20" Hg to 15 psi	±2.00%	2002AV	**2T645**
0 to 10" H2O	2000 to 12,500 fpm	-20" Hg to 15 psi	±2.00%	2010AV	**2T646**
Photohelic Differential Pressure Gauges with Relay					
Pressure					
0 to 0.25" H2O	—	-20" Hg to 25 psi	±4.00%	A3000-00	**4ME75**
0 to 0.50" H2O	—	-20" Hg to 25 psi	±3.00%	A3000-0	**4ME76**
0 to 1" H2O	—	-20" Hg to 25 psi	±2.00%	A3001	**4ME77**
0 to 2" H2O	—	-20" Hg to 25 psi	±2.00%	A3002	**4ME78**
0 to 3" H2O	—	-20" Hg to 25 psi	±2.00%	A3003	**4ME79**
0 to 5" H2O	—	-20" Hg to 25 psi	±2.00%	A3005	**4ME80**
0 to 10" H2O	—	-20" Hg to 25 psi	±2.00%	A3010	**4ME81**
0 to 25" H2O	—	-20" Hg to 25 psi	±2.00%	A3025	**4ME82**
0 to 50" H2O	—	-20" Hg to 25 psi	±2.00%	A3050	**4ME83**
0 to 100" H2O	—	-20" Hg to 25 psi	±2.00%	A3100	**4ME84**
0.25" to 0 to 0.25" H2O	—	-20" Hg to 25 psi	±3.00%	A3300-0	**4ME85**
0.50" to 0 to 0.50" H2O	—	-20" Hg to 25 psi	±2.00%	A3301	**4ME86**
0 to 10 psi	—	-20" Hg to 35 psi	±2.00%	A3210	**4ME87**
0 to 15 psi	—	-20" Hg to 35 psi	±2.00%	A3215	**4ME88**
Pressure and Air Velocity					
0 to 1" H2O	500 to 4000 fpm	-20" Hg to 25 psi	±2.00%	A3001AV	**4ME89**
0 to 2" H2O	1000 to 5600 fpm	-20" Hg to 25 psi	±2.00%	A3002AV	**4ME90**
0 to 10" H2O	2000 to 12,500 fpm	-20" Hg to 25 psi	±2.00%	A3010AV	**4ME91**

Pressure Setting Range (in. WC)	Amps	Actuation Type	Mfr. Model	Item No.
Differential Pressure Switch				
0.08 to 1.2	1.5A/250 VAC	Diaphragm	ADPS-08-2-N	**24Z008**

For Use With	Mfr. Model	Item No.
Portable Adapter Kit		
Magnehelic Gauges	A-432	**2T648**
Air Filter Adapter Kit		
Differential Pressure Gauges and Manometers	A-605	**2T647**

**** 1 psi = 27.71" WC.***



No. D0739



No. D0741

DIN- and Panel-Mount Differential Pressure Panel Meters

- 2 SPDT relays
- 4 to 20mA DC output signal
- 4-digit LCD

Digihelic® 3-in-1 digital meters combine pressure gauge, relay switch, and transmitter functions. Pressure, velocity, or volumetric flow readouts are selectable in choice of units.

▶Please choose: To order, specify input range from table.

1/8 DIN Mount—Accuracy is ±0.5% at 77°F. NEMA 4X face. RS-485 interface. Process connection uses 3/16" O.D. x ⅛" I.D. tubing with compression fitting. 4½"D.

4¾" Round Cutout Mount—Accuracy for 0" to 0.25" WC and ±0.25" WC is ±1.5%. Include front ring for mounting into 4¾" cutout. ⅛" female NPT side or back connection. 3⅛"D.

▶CHOOSE: Input Range	
0 to 0.25" WC	0 to 100" WC
0 to 1.0" WC	0.25 to 0 to 0.25" WC
0 to 2.5" WC	0.5 to 0 to 0.5" WC
0 to 5.0" WC	1 to 0 to 1" WC
0 to 10.0" WC	2.5 to 0 to 2.5" WC
0 to 25" WC	5 to 0 to 5" WC
0 to 50" WC	10 to 0 to 10" WC

Fits	Power Req.	Item No.
⅛ DIN Mount	100 to 240VAC, 132 to 240VDC	**D0739** †
4¾" Round Cutout Mount	12 to 28VDC, 12 to 28VAC	**D0741**

† Not avaliable in 0 to 2.5" WC or 0.5" to 0 to 0.5" WC.



605 Magnehelic® Differential Pressure Indicating Transmitters

- 2-wire, 4 to 20mA output signal
- 0 to 1250 ohm loop resistance from 10 to 35VDC
- Power required: 10 to 35VDC
- Output accuracy: ±2% full scale for ranges < 2" WC; l0 0.5% all others
- ⅛" NPT side and rear pressure connections

Transmitter gauge for HVAC maintenance and trouble-shooting provides visual monitoring and electronic control of very low differential pressure. 38mA DC (max.) current consumption. Die-cast aluminum case. Plastic window. Includes span-and-zero adjust tool and mounting hardware.

▶Please choose: To order, specify pressure range from table.

▶CHOOSE: Pressure Range		Item No.
0 to 0.5" WC	0 to 3.0" WC	
0 to 1.0" WC	0 to 10" WC	**D0745**
0 to 2.0" WC	—	

Molded Plastic Manometers

No. 2T650



- Zero adjustment knob and built-in level indicator
- ±3% full scale accuracy

Mount on any vertical surface to measure low positive, negative, or differential air and compatible gases in dust collection systems, noxious fume/airborne particulate exhaust systems, and HVAC filter banks. 140°F max. working temp. 10 psi max. internal working pressure. Each includes 2 static pressure taps, 8-ft. double-column plastic tubing, mounting screws, indicating fluid, and red and green pointer flags. No. 2T650 uses red indicating fluid (No. 1TC00); No. 3T292 uses blue indicating fluid (No. 1W413).

Operating Range	Mfr. Model	Item No.
0 to 3" WC	MARK II 25	**2T650**
0 to 7" WC	MARK II 26	**3T292**
Accessory		
Stand for Nos. 2T650 and 3T292 Manometers	A-612	**1TC33**

Wind Speed Indicators and Vane Anemometer

No. 3T307



WIND SPEED INDICATOR

Rooftop-mounted pickup reads wind velocities from 0 to 80 mph directly on liquid-filled tube. Calibrated in mph and Beaufort scales. Includes 50-ft. vinyl tubing.

HANDHELD WIND METER

Quickly displays wind velocity in 2 scales: 2 to 10 mph and 4 to 66 mph.

MOUNTABLE VANE ANEMOMETER

Permanent-mount or portable instrument measures velocities from 25 to 400 fpm.

Description	Mfr. Model	Item No.
Wind Speed Indicator	MARK II WSI	**3T307**
Handheld Wind Speed Indicator	WIND METER-MPH	**3T308**
Mountable Vane Anemometer	480	**1W431**

Static Pressure Sensors

For use with differential pressure instruments.

Static Pressure Tips are designed for use in ducts or rooms.

No. 23Z321 is designed for cleanroom use. No. 23Z323 mounts on top of a standard ¾"-thick ceiling tile, with its filter facing down through a ⅝" hole in the tile.

No. 23Z324 is designed for roof or outside mounting, and structured to withstand harsh outdoor conditions.



No. 23Z320



No. 23Z324



No. 23Z326

Description	Features	Includes	Connection	Material of Construc.	Mfr. Model	Item No.
4" Straight Static Pressure Tip with Flange	Integral Mounting Flange w/Rubber Gasket	Mounting Screws	Barb Fitting for 3/16" ID Tubing	303/304 SS	A-489	**23Z317**
6" Straight Static Pressure Tip with Flange	Integral Mounting Flange w/Rubber Gasket	Mounting Screws	Barb Fitting for 3/16" ID Tubing	303/304 SS	A-491	**23Z318**
8" Straight Static Pressure Tip with Flange	Integral Mounting Flange w/Rubber Gasket	Mounting Screws	Barb Fitting for 3/16" ID Tubing	303/304 SS	A-493	**23Z319**
Clean Room Static SS Pressure Sensor	60 Micron Fine Mesh Filter on Sensor	Mounting Screws	Barb Fitting 3/16" to 3/8" ID Tubing	316 SS	A-414	**23Z320**
Static Pressure Pickup SS Wall Plate	60 Micron Fine Mesh Filter on Sensor, Mounts on Single Gang Electrical Box	Foam Gasket, Mounting Screws	Barb Fitting 1/8" to 3/16" ID Tubing	Stainless Steel	A-417A	**23Z321**
Static Pressure Pickup Wall Mount	60 Micron Fine Mesh Filter on Sensor, Mounts on Single Gang Electrical Box	Foam Gasket, Mounting Screws	Barb Fitting 1/8" to 3/16" ID Tubing	Polycarbonate	A-418A	**23Z322**
Static Pressure Pickup Ceiling Plate	Mounts on Standard Junction Box	—	Barb Fitting 1/8" to 3/16" ID Tubing	Metal	A-419A	**23Z323**
Static Pressure Pickup	Stabilizing Plate Reduces Effects of Wind Gusts	Conduit Adapter	Barb Fitting 1/8" to 3/16" ID Tubing	Plastic with Metal Plate/ Conduit Connector	A-420A	**23Z324**
Static Pressure Pickup Flush Mount	Integral Molded Pressure Connection	3/16" ID Tubing, Mounting Screws, Wall Anchors	Barb Fitting for 3/16" ID Tubing	ABS Plastic	A-465	**23Z325**
Flush Mount Kit for Magnehelic® Gage	Integral Molded Pressure Connection	3/16" ID Tubing, Mounting Screws and Wall Anchors	Barb Fitting for 3/16" ID Tubing	ABS Plastic	A-464	**23Z326**

Pressure Test Kits

Dual-Range Manometer Kit—Determines static pressures; tests leakage, fans and blowers; calibrates control devices. Includes 4½" x ⅜" Tygon® tube for pressure source connection, ¾-oz. red indicating fluid (No. 1TC00), 2 magnetic clips, and carrying case.

- U-tube application reads 0" to 16"
- Inclined gauge reads -0.20" to 2.6"

Gas Pressure Test Kit—Complete kit contains No. 3T302 16" manometer (8-0-8 range) plus ⅛" to ¼" pipe thread bushing, 3 ft. x 3/16" rubber tubing, 1 rubber tubing adapter to fit standard 7/16"-dia. spud, 2 rubber tubing adapters to fit ⅛" pipe thread, ¾ oz. fluorescent green coloring agent (No. 1W409), and plastic case.

Gas Pressure Test Kits—Nos. 8P386 and 8U889 measure methane or LP gas pressure across a stove, furnace, or dryer manifold with ±1.5% accuracy. Each has a 2.5"-dia. gauge calibrated in inches H_20 as well as oz./in.^{2} Each comes in a hard case with 39" of rubber tubing, a hose clamp, and a ⅜" NPT brass quick-connect fitting.

Flexible Liquid-Filled Manometers—Determine static pressures; test leakage, fans, and blowers; and calibrate control devices. Rapid shutoff, overpressure safety traps. Connect to 3/16" I.D. hookup hose (not included). Include 1 bottle of fluorescent green coloring agent (No. 1W409).

- Magnetic clips

Note: Connection tube not included.



No. 3T294



No. 3T293

Description	Brand	Mfr. Model	Item No.
Pressure Kit			
Dual Range Flex-Tube, U-Inclined Manometer	Dwyer	1227	**3T294**
Gas Pressure Kit	Dwyer	1212	**3T293**
Gas Pressure Kit, 0" to 15" (H_20) Range	General	GPK015	**8P386**
Gas Pressure Kit, 0" to 35" (H_20) Range	General	GPK035	**8U889**
Oils and Water Coloring			
4-Oz. Red Gauge Oil, Specific Gravity 0.826	Dwyer	A-102	**1TC00**
Fluorescent Green Water Coloring Agent	Dwyer	A-126	**1W409**

Operating Range	Slack Tube Length	Brand	Mfr. Model	Item No.
Flexible Liquid-Filled Manometers				
4-0-4" WC	8.0"	Dwyer	1211-8	**3T300**
6-0-6" WC	12.0"	Dwyer	1211-12	**3T301**
8-0-8" WC	16.0"	Dwyer	1211-16	**3T302**
12-0-12" WC	24.0"	Dwyer	1211-24	**2T971**
24-0-24" WC	48.0"	Dwyer	1211-48	**3T303**
30-0-30" WC	60.0"	Dwyer	1211-60	**3T304**
36-0-36" WC	72.0"	Dwyer	1211-72	**3T305**
60-0-60" WC	120.0"	Dwyer	1211-120	**3T306**
18-0-18" WC	36.0"	Dwyer	1211-36	**3T404**

Environmental Meters

Pocket-sized testers come complete with wrist strap and 9V battery; Type K temperature probe sold separately. 4-in-1 No. 4TXJ1 simultaneously display air temperature and air velocity or relative humidity. No. 4TXJ1 adds foot-candle/lux light measurement.

Temp. Range	Relative Humidity Range	Res.	Vel. (fpm)	Vel. (mps)	Special Features	Power Source	Mfr. Model	Item No.
32° to 122°F	10 to 95%	10 fpm	80 to 5910	0.4 to 30	Type K Temp Probe -148 to 2372 F, Characters Reverse on Display Depending on Mode, Min/Max	9V Battery	45170	**4TXJ1**
32° to 122°F (Air), -148° to 2372°F (Type K)	10 to 95%	1 fpm	80 to 3937	0.4 to 20	Replaceable Vane Wheel, Min/Max, Tripod Mount, External Type K Thermocouple Probe -148° to 2372°F	(3) AAA Batteries	EN510	**453A49**



No. 4TXJ1



No. 453A49


No. 1XFW2


No. 1LZN6


No. 2ENF2


No. 4FB77


No. 13G533


No. 5ENL8


No. 9HUA3


No. 3LYC4


No. 3LYA9


No. 49KE06


No. 9LHH8

Handheld Digital Manometers

Precision instruments test air or gas pressure in HVAC systems, laboratory testing, field calibration, and medical respiratory support equipment. Batteries included.

DWYER®

Handheld Digital Manometers—Measure pressure, flow, and velocity. Calculate and display air velocity and volumetric air flow. Nine selectable English and metric engineering units. Store up to 40 readings.

Intrinsically Safe Handheld Digital Manometers—Measure positive, negative, or differential pressure and air velocity when used with a pitot tube.

Single-Pressure Digital Manometer—Measures positive and negative pressures. Features 1-button Auto-Zero and Auto-Off. Does not measure differential air pressure.

EXTECH®

Differential Pressure Manometers—Record Max./Min./Avg. readings with relative time stamp. Data hold freezes the reading on the display. Zero function for offset correction or measurement.

Heavy-Duty Differential Pressure Manometer—Dual-input instrument with internal sensors has a wide measurement range and high resolution. Dual LCD shows 8 selectable units with Hold, Zero, and Record/Recall. RS-232 interface. Includes 2 quick-disconnect fittings, rubber holster with stand, and carrying case.

Pitot Tube Anemometer and Differential Manometer—Measures air velocity/air flow in tight locations. 5 selectable units of measure. Features Data Hold, Auto-Off, Zero, Record/Recall up to 99 readings. Complete with software, USB cable, AC adapter, and carrying case.

Pressure Meter/Datalogger—Measures pressure in hydraulic shop presses and other industrial machines. Dual-LCD shows 10 selectable units with Hold, Max./Min., and Record/Recall. Stores data on included 2G SD card. Includes hard carrying case. Optional sensors are available on Grainger.com®.

MERIAM®

Digital Manometers—Recall option allows recalibration for zero, span, and linearity. Store up to 240 readings; automatic mode saves current value every 5 sec. for up to 20 min.

Smart Manometers—Provide 11 pressure units and can be linearly scaled for custom units. Adjustable damping minimizes the effects of pulsating pressures. Recalibrate for Zero and span. Feature Min./Max., Hold, and auto-record of up to 240 readings.

TEST PRODUCTS INTL.

Dual-Input Differential Manometers—Measure pressure in seven units. No. 3LYC4 features Auto-Off, Zero function, and Trim mode to stabilize readings. Includes silicon tubing. No. 9HUA3 includes Auto-Off, Record/Min./Max., Zero function, aluminum housing with rubber boot. Data logging with optional A665 software and docking station.

Single-Input Manometer—Measures pressure or vacuum in four units of measure: inH2O, mbar, KPa, psi. Provides a range of ±60 inH2O range.

UEI TEST PRODUCTS

Dual-Differential Digital Manometer—Measures positive and negative gas supply, draft pressures, and differential in 11 scales. Min./Max., Data Hold, Zero and Auto-Off. Built-in magnet for hands-free operation. Includes 18" sample tubing and pouch.

Dual-Input Differential Manometer—Rugged dual-input meter features dynamic Min./Max. capture, Hold, Zero, and Auto-Off. Rubber-booted housing has integral magnet for hands-free operation.

Static Pressure Kits—Measure gas supply and draft pressures. Kits provide an alternative to U-tube pressure measurements. Differential mode offers a convenient method to measure pressure drops. Features dynamic Min./Max. value capture, Data Hold, Auto-Off, and rubber boot with integral magnet.

Description	Pressure Range	Operating Temp. Range	Display	Battery Type	Connec. Type	Mfr. Model	Item No.
Dwyer							
Handheld Digital Manometer Series 477AV	0 to 4.00 In WC	0° to 140°F	4 Digit LCD	9V	(2) Barbed	477AV-00	**38XU43**
	0 to 10.00 In WC	0° to 140°F	4 Digit LCD	9V	(2) Barbed	477AV-0	**38XU42**
	0 to 200 In WC	0° to 140°F	4 Digit LCD	9V	(2) Barbed	477AV-3	**38XU47**
Intrinsically Safe Handheld Digital Manometer Series 475	0 to 10.00 In WC	0° to 140°F	4 Digit LCD	9V	(2) Barbed	475-0-FM-AV	**38XU36**
	0 to 20 In WC	0° to 140°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	475-1-FM	**1XFW2**
	0 to 20 In WC	0° to 140°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	475-1-FM-AV	**1XFW5**
	0 to 40 In WC	0° to 140°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	475-2-FM	**1XFW3**
	0 to 200 In WC	0° to 140°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	475-3-FM	**1XFW4**
Single Pressure Digital Manometer Series 476A	-20 to 20 In WC	0° to 140°F	4 Digit LCD	9V	Fits 3⁄16 or ¼" ID Tubing	476A-0	**1LZN6**
Extech							
Differential Pressure Manometer	0 to 13.85 In WC	32° to 122°F	4 Digit Backlit LCD	9V	Fits ⅛" ID Tubing	HD755	**2ENF2**
	0 to 13.85 In WC	32° to 122°F	4 Digit Backlit LCD	9V	Fits ⅛" ID Tubing	HD755-NIST	**8MGK8** †
	0 to 55.40 In WC	32° to 122°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	HD700	**1CWL9**
	0 to 55.40 In WC	32° to 122°F	3 ½ Digit LCD	9V	Fits ⅛ or 3⁄16" ID Tubing	HD700-NIST	**9LW58** †
	0 to 138.3 In WC	32° to 122°F	4 Digit Backlit LCD	9V	Fits ⅛" ID Tubing	HD750	**2ENF3**
Heavy Duty Differential Pressure Manometer	0 to 802 In WC	32° to 122°F	1.4" High LCD	9V	—	407910	**4FB77**
Pitot Tube Anemometer and Differential Manometer	0 to 20 In WC	32° to 122°F	3-Line Backlit LCD	9V	5⁄16" Connectors	HD350	**9XJ80**
Pressure Meter/Datalogger	30psi (2bar), 150psi (10bar) or 290psi (20bar) (Dependent On Transducer)	32° to 122F	Backlit LCD	(6) AA	Threaded, ¼" PS, 19 TPI	SDL700	**13G533**
Meriam							
Digital Manometer M1 Series	0 to 28 In WC	14° to 122°F	LCD	(3) AA	—	ZM100-2	**5ENL8**
Smart Manometers M2 Series	0 to 200 In WC	14° to 122°F	5 Digit LCD	(4) AA	—	M200-DN0200	**5ENK1**
	0-2000" H2O Differential	23° to 122°F	5 Digit LCD	(4) AA	⅛" female NPT, 316L SS	M200-DN02000	**5ENK2**
Test Products Intl.							
Dual Input Differential Manometer	±101.5 psi	32° to 104°F	LCD	—	—	665	**9HUA3**
	±120 in. WC	32° to 104°F	5 Digit LCD With Backlight	9V	—	621	**3LYC4**
Single Input Manometer	±60 in. WC	32° to 104°F	Back-Lit LCD	9V	—	608	**3LYA9**
UEI Test Instruments							
Dual Differential Digital Manometer	±0 to 60" WC	32° to 104°F (0° to 40°C)	Backlit LCD	9V	(2) Barbed	EM152	**49KE06**
Dual Input Differential Manometer	-60 to 60" WC	32° to 104 Degrees F (0 to 40 Degrees C)	4-Digit Backlit LCD	9V	(2) ¼" Barbs	EM201B	**9LHH8**
Static Pressure Kit	-60 to 60" WC	32° to 104 Degrees F (0 to 40 Degrees C)	4-Digit Backlit LCD	9V	(2) ¼" Barbs	EM201SPKIT	**36H169**
	-60 to 60" WC	32° to 104 Degrees F (0 to 40 Degrees C)	4-Digit Backlit LCD	9V	(2) ¼" Barbs	EM201SPKIT-N	**49CK76**

† NIST Certified.

Digital Pressure and Vacuum Gauges

Sockets are made of stainless steel.

ASHCROFT SERIES DG25

5-digit LCD shows readings in any of 9 units of measure. Include protective rubber boot and batteries.

ASHCROFT SERIES 2089

5-digit LCD for 12 units of measure (including mm H_2O) and 7 languages. With password-protected calibration and disable function. 316 stainless steel wetted parts. Each includes AAA batteries. Supplied with NIST calibration certificate.

ASHCROFT® SERIES 2074

Readings are shown on 5-digit backlit LCD in any of 10 units of measure. Units have password protection. Include C batteries.

ASHCROFT SERIES 2174

Gauges with 4-20mA transmitter have 5-digit LCD for 10 selectable units of measure, and unlimited turndown. Include AA batteries.

DWYER® SERIES DPGA

Gauges have a 4-digit LCD with selectable vacuum/pressure measurement and digital push-button zeroing. For use with air or compatible gases. Run on one 9V battery (not included).

GA SERIES YSB-068

Provide readings on digital LCD for liquids or gases in any of 9 engineering units. Require 9V battery (not included).

GA SERIES YSB-070

Rubber-covered gauges provide readings for liquids or gases in any of 9 engineering units on digital LCD. Require 2 AAA batteries (not included).

SSI MG SERIES

Gauges contain a piezo-resistive pressure sensing element, signal conditioning circuitry, stainless steel input pressure port, and 4-digit LCD backlit display. Readings updated 3 times per sec. Battery-saver mode.

WEISS SERIES DUG

4-digit LCD for 4 selectable units of measure plus averaging. Self-powered: Run continuously on as little as 10 lux (1 foot-candle). IP65 weatherproof; solid-front construction with blowout back safety design.

Series	Accuracy	Connection Size	Connection Location	Case Material	Dial Size	Operating Temp. Range	▶CHOOSE: Range	Item No.
Ashcroft								
psi, BAR, Kpa, Mpa, cm Hg., mm Hg., in. Hg., ft. H20, kg/cm2								
DG25	±0.50% Full Scale	¼" MNPT	Bottom	ABS Polycarbonate	2½"	-4° to 140°F	100 psi, 1000 psi, 200 psi, 30 psi, 30 in VAC, 300 psi, 3000 psi, 500 psi, 5000 psi	G5753
psi, bar, mbar, kPa, MPa, in. Hg, mmHg, in. H20, ft. H20, cmH20, kg/cm2								
2089	±0.05% Full Scale	¼" MNPT	Bottom	Stainless Steel	3"	0° to 150°F	0 to 30 psi, 0 to 60 psi, 0 to 100 psi, 0 to 300 psi, 0 to 600 psi, 0 to 1000 psi	D8581
	±0.05% Full Scale	¼" MNPT	Bottom		3"	0° to 150°F	30 in Hg Vac. to 15 psi	20Z635
psi, mBar, BAR, Kpa, Mpa, mm Hg., in. Hg., in. H20, ft. H20, kg/cm2								
2074	±0.25% Full Scale	¼" MNPT	Bottom	Thermoplastic	4½"	-14° to 140°F	30 to 0 in Hg Vac, 0 to 30 psi, 0 to 100 psi, 0 to 300 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 3000 psi	D8579
	±0.25% Full Scale	¼" MNPT	Bottom	Stainless Steel	3"	-14° to 140°F	30 to 0 in Hg Vac, 0 to 100 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 3000 psi	D8577
	±0.25% Full Scale	¼" MNPT	Center Back		3"	-14° to 140°F	0 to 30 psi, 0 to 300 psi	D8577
2174	±0.25% Full Scale	¼" MNPT	Bottom		3"	-12° to 140°F	30 to 0 in Hg Vac, 0 to 30 psi, 0 to 100 psi, 0 to 300 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 3000 psi	D8578
Dwyer								
psi, bar, kPa, kg/cm2, in. Hg, ft. w.c.								
DPGA	±1.00% of Reading	¼" MNPT	Bottom	ABS Plastic	2½"	30° to 120°F	0 to 500 psi	H4302
psi, bar, kPa, kg/cm2, in. Hg, ft H20, in H20, oz./in2								
DPGA	±1.00% of Reading	¼" MNPT	Bottom	ABS Plastic	2½"	30° to 120°F	0 to 100 psi	H4302
psig, bar, mbar, kPa, kg/cm2, in. Hg, mmHg, ft. H20, in. H20, cmH20, oz/in2								
DPGA	±1.00% of Reading	¼" MNPT	Bottom	ABS Plastic	2½"	30° to 120°F	30inHG-0 psi, 0 to 15 psi, 0 to 30 psi, 0 to 50 psi, 0 to 300 psi	H4302
GA								
psi, bar, kPa, kg/cm2, in. Hg, in. H20, ft. H20, cmH20, oz./in2								
YSB-068	±1.00% of Reading	¼" MNPT	Bottom	ABS Plastic	2½"	30° to 120°F	0 to 5 psi, 0 to 50 psi	G5751
psi, bar, kPa, MPa, kg/cm2, in. Hg, mmHg, cmHg, ft. H20								
YSB-070	±0.50% Full Scale	¼" MNPT	Bottom	ABS Plastic	2½"	14° to 140°F	0 to 500 psi	G5752
SSI								
psi, bar, MPa								
MG1	±1.00% of Reading	¼" MNPT	Bottom	ABS Thermoplastic	2½"	14° to 140°F	0-1000	3JYZ4
	±1.00% of Reading	¼" MNPT	Bottom		2½"	14° to 140°F	0-3000	3JYZ7
MG1-9V	±1.00% Full Scale	¼" MNPT	Bottom		2½"	14° to 140°F	0 to 5000 psi	45MT99
MG-9V	±0.25% of Reading	¼" MNPT	Bottom		3"	14° to 140°F	0-500	3JYW3
	±0.25% of Reading	¼" MNPT	Bottom		3"	14° to 140°F	0 to 1500 psi	45MT95
	±0.25% of Reading	¼" MNPT	Bottom		3"	14° to 140°F	0 to 5000 psi	45MT97
MGA	±1.00% of Reading	¼" MNPT	Bottom		2½"	14° to 140°F	0-30	3JZA1
	±1.00% of Reading	¼" MNPT	Bottom		2½"	14° to 140°F	0-100	3JZA4
	±1.00% of Reading	¼" MNPT	Bottom		2½"	14° to 140°F	0-300	3JZA7
Weiss								
psi, bar, in. Hg, kPa, kg/cm2								
DUG	±0.50% of Reading	½" MNPT	Bottom	Glass Reinforced Thermo Plastic	4½"	-15° to 150°F	30 in Hg Vac to 15 psi, 30 in Hg Vac to 60 psi, 30 in Hg Vac to 100 psi, 0 to 200 psi, 0 to 400 psi, 0 to 1000 psi	D8583
	±0.50% of Reading	¼" MNPT	Bottom		4½"	-15° to 150°F	30 in Hg Vac to 15 psi, 30 in Hg Vac to 60 psi, 30 in Hg Vac to 100 psi, 0 to 200 psi, 0 to 400 psi, 0 to 1000 psi	D8582
	±0.50% Full Scale	¼" MNPT	Bottom		4½"	-15° to 150°F	30 in Hg Vac to 15 psi, 30 in Hg Vac to 60 psi, 30 in Hg Vac to 100 psi, 0 to 200 psi, 0 to 400 psi, 0 to 1000 psi	D8584
	±0.50% Full Scale	½" MNPT	Bottom		4½"	-15° to 150°F	30 in Hg Vac to 15 psi, 30 in Hg Vac to 60 psi, 30 in Hg Vac to 100 psi, 0 to 200 psi, 0 to 400 psi, 0 to 1000 psi	D8585


No. G5753


No. D8581


No. D8579


No. D8578


No. H4302


No. G5751


No. G5752


No. 3JYZ4


No. D8583


No. D8585

700G Precision Pressure Test Gauges

FLUKE.

- 4 absolute pressure measurement ranges: 15, 30, 100, and 300 psia
- CSA, Class 1, Div. 2, Groups A-D rating
- ATEX rating: II 3 G Ex nA IIB T6
- 3-yr. warranty

Designed to handle all your pressure calibration needs, these rugged and easy-to-use gauges are offered with pressure ranges from ±10 in. H_2O/20 mbar to 10,000 psi/690 bar including absolute pressure ranges. When combined with the Fluke 700PTPK No. 16L019 or 700HTPK No. 16L018 test pump kits, you've got a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump No. 2GXE3 and up to 10,000 psi (690 bar) with the HTP-2 hydraulic pump No. 16L020. The large backlit screen displays 3 parameters at once. Gauges can log up to 8493 pressure measurements to memory with 700G/TRACK software No. 16L017. Test pump kits, test pumps, and software sold separately on page 563.

Range	Accuracy	Mfr. Model	Item No.
-14 to 15 psi	±0.05% of Reading	FLUKE-700G04	**16L008**
-14 to 30 psi	±0.05% of Reading	FLUKE-700G05	**16L009**
-12 to 100 psi	±0.05% of Reading	FLUKE-700G06	**16L010**
-12 to 300 psi	±0.05% of Reading	FLUKE-700G27	**16L011**
-12 to 500 psi	±0.05% of Reading	FLUKE-700G07	**16L012**
-14 to 1000 psi	±0.05% of Reading	FLUKE-700G08	**16L013**
-14 to 3000 psi	±0.05% of Reading	FLUKE-700G29	**16L014**
-14 to 5000 psi	±0.05% of Reading	FLUKE-700G30	**16L015**
-14 to 10,000 psi	±0.05% of Reading	FLUKE-700G31	**16L016**
-0.4 to 0.4 psi	±0.05% of Reading	FLUKE-700G01	**19YM06**
-1 to 1 psi	±0.05% of Reading	FLUKE-700G02	**19YM07**
-14 to 2000 psi	±0.05% of Reading	FLUKE-700G10	**19YM08**

Range	Accuracy	Mfr. Model	Item No.
0 to 15 psi	±0.05% of Reading	FLUKE-700GA4	**19YM09**
0 to 30 psi	±0.05% of Reading	FLUKE-700GA5	**19YM10**
0 to 100 psi	±0.05% of Reading	FLUKE-700GA6	**19YM11**
0 to 300 psi	±0.05% of Reading	FLUKE-700GA27	**19YM12**
-14 to 30 psi	±0.04% of Reading	FLUKE-700RG05	**19YM13**
-14 to 100 psi	±0.04% of Reading	FLUKE-700RG06	**19YM14**
-14 to 500 psi	±0.04% of Reading	FLUKE-700RG07	**19YM15**
-14 to 1000 psi	±0.04% of Reading	FLUKE-700RG08	**19YM16**
-14 to 3000 psi	±0.04% of Reading	FLUKE-700RG29	**19YM17**
-14 to 5000 psi	±0.04% of Reading	FLUKE-700RG30	**19YM18**
-14 to 10,000 psi	±0.04% of Reading	FLUKE-700RG31	**19YM19**



No. 16L008

Scan. Order. Done.
Details on page A1.

Standard Gauges with Stainless Steel Housing

GA GRAINGER APPROVED

- Accuracy: ±3-2-3%
- Polycarbonate lens
- Connection/internal material: stainless steel
- Ambient operating temp.: -40° to 150°F (liquid-filled to 140°)

Corrosion-resistant and suitable for outdoor use or harsh conditions. Use with air, water, and oils in hydraulic equipment, pressure washers, pumps, and compressors. Glycerin liquid fill with select models reduces pulsation and pointer vibration.

▶**Please choose:** To order, specify vacuum/pressure range from table.

▶CHOOSE: Vacuum/Pressure Range		
30 to 0" Hg Vac	0 to 160 psi	0 to 1000 psi
30" Hg Vac to 30 psi	0 to 200 psi	0 to 2000 psi
0 to 30 psi	0 to 300 psi	0 to 3000 psi
0 to 60 psi	0 to 400 psi	0 to 5000 psi
0 to 100 psi	0 to 600 psi	—

		BOTTOM		CENTER BACK	
Dial Size	Connection Size	Dry Item No.	Glycerin Filled Item No.	Dry Item No.	Glycerin Filled Item No.
1½"	⅛" NPT	D1353	D1355	D1354	D1356
2"	¼" NPT	D1357	D1359	D1358	D1361
2½"	¼" NPT	D1362	D1364	D1363	D1365
3½"	¼" NPT	D1366	D1368	D1367	D1369



Bottom Connection

GA GRAINGER APPROVED

Contractor Gauges

- 4½" dial
- Accuracy: ±1%
- Connection/internal material: copper alloy
- ¼" NPT lower connection
- Ambient operating temp. range: -40° to 200°F

Designed for steam, hot water, and chilled water pumping systems in HVAC applications.

▶**Please choose:** To order, specify vacuum/pressure range from table.



No. G3995



No. G3996

▶CHOOSE: Vacuum/Pressure Range	
30" Hg Vac to 0"	0 to 60 psi
30" Hg Vac to 15 psi	0 to 100 psi
30" Hg Vac to 30 psi	0 to 160 psi
30" Hg Vac to 60 psi	0 to 200 psi
30" Hg Vac to 100 psi	0 to 300 psi
30" Hg Vac to 150 psi	0 to 400 psi
30" Hg Vac to 300 psi	0 to 600 psi
0 to 15 psi	0 to 1000 psi
0 to 30 psi	—

Case Material	Lens Material	Item No.
Stainless Steel	Acrylic	G3995
Nylon	Tempered Glass	G3996

ASHCROFT

Pressure Transducers

- Output: 1 to 5VDC
- Accuracy: ±0.5%

Digitally compensated transducers are for any process compatible with 304 and 17-4PH stainless steel. Wetted materials are stainless steel.

▶**Please choose:** To order, specify process connection and pressure range from table.



DIN No. D3845



M12 No. D3848



Shielded Cable No. D3858

▶CHOOSE: Process Connection	▶CHOOSE: Pressure Range		
⅛" NPT Male	30 Hg Vac to 30 psi	0 to 200 psi	0 to 3000 psi
¼" NPT Male	0 to 30 psi	0 to 300 psi	0 to 5000 psi
7/16"-20 SAE Male	0 to 60 psi	0 to 500 psi	0 to 7500 psi
—	0 to 100 psi	0 to 1000 psi	—

Electrical Connec.	Lead Length	Item No.
4 to 20 mA at 12 to 30VDC		
DIN 43650-A	—	D3845
M12, No Connector	—	D3848
½" Conduit	—	D3852
Mini- DIN	—	D3855
Shielded Cable	39"	D3858

Electrical Connec.	Lead Length	Item No.
1 to 5VDC		
DIN 43650-A	—	D3872
M12, No Connector	—	D3875
½" Male Conduit	—	D3878
Mini- DIN	—	D3882
Shielded Cable	36"	D3885

Adhesive Calibration Labels

DIU

Description	Size	Thickness	Item No.	Pkg. Qty.
Calibration Label, 250 Per Roll	1" x 2"	2 mil	5RPL9	1

CALIBRATION
Organization:
ID#:
Date By:
Due Date:

GA GRAINGER APPROVED

Standard Gauges with ABS Housing

- Accuracy: ±3-2-3%
- Acrylic lens
- Connection/internal material: brass/bronze
- Ambient operating temp.: -40° to 150°F

Use with air and noncorrosive fluids such as water and oil in pumps, filters, compressors, and regulators. Glycerin-filled gauges have reduced pulsation and pointer vibration.

▶**Please choose:** To order, specify vacuum/pressure range from table.



Center Back Connection

▶CHOOSE: Vacuum/Pressure Range		
30 to 0" Hg Vac	0 to 160 psi	0 to 2000 psi
30" Hg Vac to 30 psi	0 to 200 psi	0 to 3000 psi
0 to 15 psi	0 to 300 psi	0 to 4000 psi
0 to 30 psi	0 to 400 psi	0 to 5000 psi
0 to 60 psi	0 to 600 psi	0 to 6000 psi
0 to 100 psi	0 to 1000 psi	—

		BOTTOM		CENTER BACK	
Dial Size	Connection Size	Dry Item No.	Glycerin Filled Item No.	Dry Item No.	Glycerin Filled Item No.
1½"	⅛" NPT	D1334	D1336 *	D1335	D1337 *
2"	¼" NPT	D1338	D1341	D1339	D1342
2½"	¼" NPT	D1343	D1345	D1344	D1347
3½"	¼" NPT	D1348	D1351	D1349	D1352

** 1½" liquid filled not available above 1000 psi.*

ASHCROFT

Stainless Steel Gauges with PLUS!™ Performance

- Accuracy: ±1%
- Polycarbonate lens
- Connection/internal material: stainless steel
- ¼" NPT connection
- Ambient operating temp. range: -40° to 150°F

Stabilized pinion technology and a throttle plug fight pointer flutter and help reduce pulsation, giving these dry gauges better readability and a longer service life than traditional dry gauges while avoiding the difficulties and expense associated with liquid-filled gauges.

▶**Please choose:** To order, specify vacuum/pressure range from table.



Lower Back Connection



Bottom Connection

▶CHOOSE: Vacuum/Pressure Range		
30 to 0" Hg	0 to 100 psi	0 to 600 psi
30" Hg Vac to 30 psi	0 to 160 psi	0 to 1000 psi
0 to 15 psi	0 to 200 psi	0 to 3000 psi
0 to 30 psi	0 to 300 psi	0 to 5000 psi
0 to 60 psi	—	—

Dial Size	Connection Location	Item No.
2½"	Bottom	D1019
2½"	Lower Back	D1021
3½"	Bottom	D1022

GA GRAINGER APPROVED ASHCROFT

Pressure Gauge Accessories

Description	Pressure Range	Brand	Item No.
Pressure Snubbers, Filter Type			
¼" NPT, Red Brass	0 to 1500 psi	GA	5TUL3
¼" NPT, Stainless Steel	0 to 5000 psi	GA	5TUN0
½" NPT, Stainless Steel	0 to 20,000 psi	GA	5TUK8
Pressure Snubbers, Piston Type			
¼" NPT, Red Brass	0 to 3000 psi	GA	5TUL6
¼" NPT, Stainless Steel	0 to 5000 psi	GA	5TUL8
½" NPT, Red Brass	0 to 5000 psi	GA	5TUL7
Needle Valves			
¼" NPT, Brass	600 psi	GA	5TUL2
¼" NPT, 316 Stainless Steel	5000 psi	GA	5TUL9
½" NPT, Brass	500 psi	GA	5TUL1
Siphons			
¼" NPT, Red Brass	250 psi	GA	5TUL0
¼" NPT, Iron	500 psi	GA	5TUK9
¼" NPT, Stainless Steel	1000 psi	GA	5TUL5
½" NPT, Steel	2000 psi	GA	5TUL4
Finned Pressure Siphon Snubbers			
¼" NPT, 316 Stainless Steel	—	Ashcroft	2AGD2
½" NPT, 316 Stainless Steel	—	Ashcroft	2AGD3



No. 5TUL3



No. 5TUL2



No. 2AGD2

Find even MORE on Grainger.com®

Lens Material	Safety Glass	Safety Glass	Safety Glass	Safety Glass
Case Material	Aluminum	Aluminum	Polypropylene	Polypropylene
Socket Material	316 Stainless Steel	Brass	316 Stainless Steel	Brass
Tube Material	316L Stainless Steel	Phosphor Bronze	316L Stainless Steel	Phosphor Bronze
Filled With	Glycerin	Glycerin	None	None
Operating Temp. Range	-40° to 158°F	-40° to 158°F	-40° to 158°F	-40° to 158°F
Range	Item No.	Item No.	Item No.	Item No.
0 to 30 psi	36JV42	—	—	36JV27
0 to 60 psi	36JV43	—	36JV15	—
0 to 1000 psi	36JV55	36JV51	36JV22	36JV35
0 to 5000 psi	36JV58	—	36JV25	—
0 to 100 psi	—	36JV38	—	36JV29
0 to 600 psi	—	36JV41	36JV21	—
0 to 15 psi	—	36JV48	—	36JV26
0 to 200 psi	—	—	36JV18	—
0 to 300 psi	—	—	36JV19	36JV32
0 to 400 psi	—	—	36JV20	36JV33
0 to 1500 psi	—	—	36JV23	—
0 to 3000 psi	—	—	36JV24	—
0 to 160 psi	—	—	—	36JV30


No. 36JV38

GA GRAINGER APPROVED

Chemical and Petroleum Gauges

- 4½" dial
- Accuracy: ±1.0%
- Solid front with pressure relief back
- ½" NPT bottom connection

Lens Material	Glass	Acrylic	Glass	Acrylic	Glass
Case Material	Phenolic/ Thermoplastic	Phenolic/ Thermoplastic	Phenolic/ Thermoplastic	Phenolic/ Thermoplastic	Phenolic/ Thermoplastic
Socket Material	Brass	Brass	316L Stainless Steel	316L Stainless Steel	316 Stainless Steel
Tube Material	Phosphor Bronze	Phosphor Bronze	316L Stainless Steel	316L Stainless Steel	316 Stainless Steel
Filled With	+Plus*	Glycerin	None	Glycerin	+Plus*
Operating Temp. Range	-50° to 150°F	0° to 150°F	-50° to 150°F	0° to 150°F	-40° to 150°F
Range	Item No.	Item No.	Item No.	Item No.	Item No.
0 to 15 psi	5RXY7	6WZT8	5RYA2	6WZU7	4TA42
0 to 30 psi	5RXY8	5RYC5	5RYA3	5RYD1	4TA43
0 to 60 psi	5RXY9	5RYC6	5RYA4	5RYD2	4TA45
0 to 100 psi	5RXZ0	5RYC7	5RYA5	5RYD3	4TA46
0 to 160 psi	5RXZ1	6WZT9	5RYA6	6WZU8	4TA47
0 to 200 psi	5RXZ2	5RYC8	5RYA7	5RYD4	4TA48
0 to 300 psi	5RXZ3	5RYC9	5RYA8	5RYD5	4TA49
0 to 400 psi	5RXZ4	6WZU0	5RYA9	6WZU9	4TA50
0 to 600 psi	5RXZ5	5RYD0	5RYC0	5RYD6	4TA51
0 to 1000 psi	5RXZ6	6WZU1	5RYC1	6WZV0	4TA52
0 to 1500 psi	—	—	5RYC2	6WZV1	4TA53
0 to 3000 psi	—	—	5RYC3	6WZV2	4TA54
0 to 5000 psi	—	—	5RYC4	6WZV3	4TA55
30" Hg Vac to 0	5RXY2	6WZU2	5RXZ7	6WZV4	4TA37
30" Hg Vac to 30 psi	5RXY3	6WZU3	5RXZ8	6WZV5	4TA38
30" Hg Vac to 60 psi	5RXY4	6WZU4	5RXZ9	6WZV6	4TA39
30" Hg Vac to 100 psi	5RXY5	6WZU5	5RYA0	6WZV7	4TA40
30" Hg Vac to 150 psi	5RXY6	6WZU6	5RYA1	6WZV8	—
30" Hg Vac to 160 psi	—	—	—	—	4TA41

** +PLUS performance provides dampening action in a dry gauge similar to liquid-filled models.*


No. 5RYC5


No. 6WZV4

ASHCROFT®

Chemical and Petroleum Process Gauges

- 4½" dial
- Accuracy: ±0.5%
- Solid front/blowout back housing
- ½" NPT bottom connection
- Thermoplastic front ring and rear cover

Glycerin-filled models vent for atmospheric pressure and temperature compensation and feature Buna N O-ring seal.

ASHCROFT®

3" Test Gauges

- Accuracy: ±0.5%
- Glass lens
- Stainless steel case
- Connection/internal material: stainless steel
- ¼" NPT bottom connection
- Ambient operating temp. range: -40° to 150°F

Feature red-tipped knife-edge pointer and polished mirror band on dial. Each includes nylon carrying pouch. NIST Certified No. D0801 includes certificate.

▶Please choose: To order, specify vacuum/pressure range from table.

▶CHOOSE: Vacuum/Pressure Range	
30" Hg Vac to 0"	0 to 200 psi
0 to 30 psi	0 to 300 psi
0 to 60 psi	0 to 600 psi
0 to 100 psi	0 to 1000 psi

Calibration Certificate	Item No.
—	D0799
NIST with Data	D0801


No. D0799

ASHCROFT®

4½" and 6" Test Gauges

- Accuracy: ±0.25%
- Glass lens
- Epoxy-coated aluminum case
- Connection/internal material: bronze/brass
- ¼" NPT bottom connection
- Ambient operating temp. range: -40° to 150°F

Feature exterior zero adjust. Stem- or flush-mount. NIST Certified models include certificate.


No. D0803

▶Please choose: To order, specify vacuum/pressure range from table.

▶CHOOSE: Vacuum/Pressure Range	
30" Hg Vac to 0"	0 to 100 psi
0 to 15 psi	0 to 200 psi
0 to 30 psi	0 to 300 psi
0 to 60 psi	0 to 400 psi

Dial Size	Item No.	NIST WITH DATA Item No.
4½"	D0803	D0805
6"	D0808	D0811

ASHCROFT®

4½" and 6" High-Pressure Test Gauges

- Accuracy: ±0.25%
- Glass lens
- Epoxy-coated aluminum case
- Connection/internal material: Monel®
- ¼" NPT bottom connection
- Ambient operating temp. range: -40° to 150°F

Feature exterior zero adjust. Stem- or flush-mount. NIST Certified models include certificate.


No. D0812

▶Please choose: To order, specify pressure range from table.

▶CHOOSE: Pressure Range	
0 to 600 psi	0 to 3000 psi
0 to 1000 psi	0 to 5000 psi
0 to 2000 psi	0 to 10,000 psi

Dial Size	Item No.	NIST WITH DATA Item No.
4½"	D0812	D0813
6"	D0814	D0815

Certified Gauges

- 4½" dial
- NIST Certified, calibration document included
- Accuracy: ±0.5%
- Glass lens
- Stainless steel housing
- 316 stainless steel socket
- ½" NPT connection
- Operating temp.: -40° to 275°F
- Include pulsation restrictor



▶Please choose: To order, specify vacuum/pressure range from table.

▶CHOOSE: Vacuum/Pressure Range		
30" Hg Vac to 0	30" Hg Vac to 600 psi	0 to 500 psi
30" Hg Vac to 15 psi	0 to 15 psi	0 to 600 psi
30" Hg Vac to 30 psi	0 to 30 psi	0 to 800 psi
30" Hg Vac to 60 psi	0 to 60 psi	0 to 1000 psi
30" Hg Vac to 100 psi	0 to 100 psi	0 to 1500 psi
30" Hg Vac to 150 psi	0 to 160 psi	0 to 2000 psi
30" Hg Vac to 200 psi	0 to 200 psi	0 to 3000 psi
30" Hg Vac to 300 psi	0 to 300 psi	0 to 5000 psi
30" Hg Vac to 400 psi	0 to 400 psi	0 to 10,000 psi

Item No.
D7959

ASHCROFT

Sanitary Gauges

- Accuracy: ±1.5%
- Polycarbonate lens
- Glycerin-filled seal, dry gauge
- Stainless steel case
- Connection/internal material: stainless steel

Feature electropolished process connection. Ambient operating temp.: -40° to 150°F.



No. D1017

▶Please choose: To order, specify pressure range from table.

▶CHOOSE: Pressure Range	
0 to 30 psi	0 to 100 psi
0 to 60 psi	0 to 200 psi

Description	Item No.
2½" Dial, 1½" Triclamp Bottom Connection	D1017
3½" Dial, 2" Triclamp Bottom	D1018

GA GRAINGER APPROVED

Altitude Gauges

- Connection/internal material: copper alloy
- ¼" NPT connection
- Ambient operating temp.: -40° to 140°F (No. G3999), -40° to 200°F (Nos. G4000 and G4001)

Instruments have dual psi/ft. H_2O display, well-suited for water pressure measurement.



No. G3999



No. G4000

▶Please choose: To order, specify pressure range from table.

▶CHOOSE: Pressure Range	
15 psi/35 ft. H_2O	160 psi/370 ft. H_2O
30 psi/70 ft. H_2O	200 psi/460 ft. H_2O
60 psi/140 ft. H_2O	300 psi/690 ft. H_2O
100 psi/230 ft. H_2O	—

Description	Accuracy	Item No.
Stainless Steel Case, Acrylic Lens		
4½" Dial, Altitude	±1.00%	G3999
Cast Aluminum Case, Tempered Glass Lens		
4½" Dial, Altitude with Red Set Pointer	±0.50%	G4000
6" Dial, Altitude with Red Set Pointer	±0.50%	G4001

ASHCROFT

Pressure Gauges with Mini Diaphragm Seal

- 2½" dial
- Accuracy: ±1.5% full scale
- Polycarbonate lens
- Glycerin-filled seal, dry gauge
- Stainless steel case
- Connection/internal material: stainless steel
- ¼" NPT connection
- Ambient operating temp.: -40° to 150°F



Bottom Connection



Lower Back Connection

▶Please choose: To order, specify vacuum/pressure range from table.

▶CHOOSE: Vacuum/Pressure Range	
30 Hg Vac to 15 psi	0 to 200 psi
0 to 30 psi	0 to 300 psi
0 to 60 psi	0 to 600 psi
0 to 100 psi	—

Connection Location	Item No.
Bottom	D0988
Lower Back	D0989

ASHCROFT

Process Pressure Gauges with Seals

- 4½" dial
- Accuracy: ±1% full scale
- Solid-front safety housing
- Seal for corrosive materials compatible with stainless steel or Hastelloy®
- ½" FNPT lower connection

Easily adjustable, self-locking micrometer pointer. For applications that require protection from chemicals and solids that can damage the gauge.



Stainless Steel No. 2AFX1

Range	Operating Temp. Range	Item No.
316 Stainless Steal Seal with Flushing Connection		
0 to 60 psi	0° to 150°F	2AFW8
30" Hg Vac to 60 psi	0° to 150°F	2AFW9
0 to 100 psi	0° to 150°F	2AFX1
0 to 200 psi	0° to 400°F	2AFX2
0 to 300 psi	0° to 150°F	2AFX3
0 to 600 psi	0° to 150°F	2AFX4

Range	Operating Temp. Range	Item No.
Hastelloy C Seal with Flushing Connection		
0 to 60 psi	-70° to 300°F	2AFX5
30" Hg Vac to 60 psi	-70° to 300°F	2AFX6
0 to 100 psi	-70° to 300°F	2AFX7
0 to 200 psi	-70° to 300°F	2AFX8
0 to 300 psi	-70° to 300°F	2AFX9
0 to 600 psi	-70° to 300°F	2AFY1

WINTERS Since 1953 We're There.

Test Gauges

Economical test gauges are used for pressure testing. Use for residential and commercial pressure testing of natural gas, air, and water lines. Kits include gauge and test block.

No. 491G23



No. 38VL20



Item	Includes	Range	Item No.
Pressure Gauge	—	0 to 6 psi	491G23
Pressure Gauge	—	0 to 15 psi	491G24
Air Over Water Test Gauge Kit	Schrader Bleed Valve On The Socket, ¾" Swivel Hose	0 to 200 psi	38VL20

Water Pressure Test Gauges

- 2" dial
- Accuracy: ±3-2-3%
- Acrylic lens
- Steel housing
- Connection/internal material: brass
- ¾" female swivel hose thread connection
- Top connection
- Ambient operating temp.: 32° to 140°F

Resettable max. indicating pointer helps monitor surges.



Range	Item No.
0 to 160 psi	18C829
0 to 300 psi	18C830
0 to 160 psi, 0 to 13 gpm	9JEE7

SPAN

Vacuum and Pressure Gauges

- 2½" dial
- Glycerin-filled
- Nylon housing
- Accuracy: ±1%
- Polycarbonate lens
- Brass alloy socket
- Operating temp.: -40° to 150°F, except -40° to 275°F on 0 to 700 bar No. D7694
- Connection size: ¼" NPT

No. D7964 uses bar units; LFS-210-BAR series.

NIST Certified No. D7962 includes pulsation restrictor; LFS-210 series.

Buna N Antifreeze/Anticlog Barrier on No. D7963 isolates wetted materials from service media; LFS-210-KemX series.

▶**Please choose:** To order, specify range for appropriate type from table.

▶CHOOSE: Range For Appropriate Type

Vacuum and Pressure Gauges		
1 to 0 Bar Vac	0 to 4 Bar	0 to 60 Bar
1 Bar Vac to 2 Bar	0 to 7 Bar	0 to 100 Bar
1 Bar Vac to 3 Bar	0 to 11 Bar	0 to 140 Bar
1 Bar Vac to 5 Bar	0 to 16 Bar	0 to 210 Bar
1 Bar Vac to 9 Bar	0 to 1 Bar	0 to 250 Bar
1 Bar Vac to 15 Bar	0 to 21 Bar	0 to 400 Bar
1 Bar Vac to 28 Bar	0 to 25 Bar	0 to 700 Bar
0 to 2 Bar	0 to 40 Bar	—
Vacuum and Pressure Gauges, NIST with Data		
30" Hg Vac to 0	0 to 30 psi	0 to 1000 psi
30" Hg Vac to 15 psi	0 to 60 psi	0 to 1500 psi
30" Hg Vac to 30 psi	0 to 100 psi	0 to 2000 psi
30" Hg Vac to 60 psi	0 to 160 psi	0 to 3000 psi
30" Hg Vac to 150 psi	0 to 200 psi	0 to 5000 psi
30" Hg Vac to 300 psi	0 to 300 psi	0 to 6000 psi
30" Hg Vac to 600 psi	0 to 400 psi	0 to 7500 psi
0 to 15 psi	0 to 600 psi	—
Vacuum and Pressure Gauges with Buna-N Antifreeze / Anticlog Barrier		
30" Hg Vac to 30 psi	0 to 60 psi	0 to 1000 psi
30" Hg Vac to 60 psi	0 to 100 psi	0 to 1500 psi
30" Hg Vac to 150 psi	0 to 160 psi	0 to 2000 psi
30" Hg Vac to 300 psi	0 to 200 psi	0 to 3000 psi
30" Hg Vac to 600 psi	0 to 300 psi	0 to 5000 psi
0 to 15 psi	0 to 400 psi	0 to 6000 psi
0 to 30 psi	0 to 600 psi	0 to 7500 psi

Description	Item No.
Vacuum and Pressure Gauges	D7964
Vacuum and Pressure Gauges, NIST With Data	D7962
Vacuum and Pressure Gauges with Buna-N Anti-Freeze / Anti-Clog Barrier	D7963



No. D7964



No. D7963

Lower Back Connection No. 4CFC9



GA GRAINGER APPROVED

Tridicator Boiler Gauges

- Pressure accuracy: ±3-2-3%
- Temp. accuracy: ±3% full scale
- Steel housing
- Brass socket/bronze tube

Measure water pressure in psi and kPa and temperature in °F and °C.

2½" ROUND DIAL
- 1.59" stem length

3 11/16" SQUARE DIAL
- 2.06" stem length

Pressure Range	Temp. Range	Connec. Location	Stem Extension	Item No.
2½" Round Dial, ¼" NPT Connection, Polycarbonate Lens				
0 to 75 psi	60 to 260°F	Back	1"	4CFC3
0 to 75 psi	60 to 260°F	Back	1.89"	4CFC4
3 11/16"" Square Dial, ½" NPT Connection, Glass Lens				
0 to 75 psi	60 to 260°F	Lower Back	1.4"	4CFC7
0 to 75 psi	60 to 260°F	Lower	1.48"	4CFC8
0 to 200 psi	80 to 320°F	Lower Back	1.4"	4CFC9
0 to 200 psi	80 to 320°F	Lower	1.48"	4CFD1



Lower Connection No. 4CFD1

Fire Sprinkler System Pressure Gauges

WINTERS

- Accuracy: ±3%
- Plastic housing with brass/bronze wetted parts
- Polycarbonate lens
- ¼" MNPT bottom connection
- Operating temp. range: -40° to 150°F

Specially designed for fire sprinkler systems and fire fighting equipment, this gauge is suitable for both air and water. Pressure ratings read in single scale (psi).

Range	Item No.
3½" Dial	
0 to 80 psi	38VL10
0 to 300 psi	38VL11
0 to 300 psi	38VL12


No. 38VL10

ASHCROFT

Sprinkler System Gauges

- Accuracy: 2% midscale (nonretard portion)
- Threaded polycarbonate window
- Phosphor bronze Bourdon tube
- ¼" NPT lower brass connection

For use on wet or dry sprinkler systems. Black ABS housing. No. 5WJ62 retarded "air" gauge is used on the sprinkler head side of the control valve in a dry system. No. 5WJ63 is used on the water supply side of the system.

Range	Item No.	
3½" Dial		
0 to 80 psi	5WJ62	*
0 to 300 psi	5WJ63	

Retarded to 250 psi.


No. 5WJ62

GA GRAINGER APPROVED

Ammonia Refrigerant Gauges

- Accuracy: ±3-2-3%
- ¼" NPT lower connection
- Polycarbonate lens

Dual-scale dial provides temperature and pressure readings in a single glance. 316 stainless steel Bourdon tube. Steel housing and socket. Black aluminum pointer.

Range	Item No.
2½" Dial	
30" Hg Vac to 150 psi	4CFW6
30" Hg Vac to 300 psi	4CFW7
3½" Dial	
30" Hg Vac to 150 psi	4CFW8
30" Hg Vac to 300 psi	4CFW9


No. 4CFW8

GA GRAINGER APPROVED

Large-Face Boiler Gauges

- Accuracy: ±0.5%
- ¼" NPT lower connection

Cast-Aluminum models have brass/bronze connections and internal materials. Stainless Steel models have 304 stainless steel housing, and 316 stainless steel Bourdon tube and lower connection for corrosion resistance.

▶**Please choose:** To order, specify range from table.

▶CHOOSE: Range

30 Hg Vac to 0 †	30 Hg Vac to 300 psi †	0 to 200 psi
30 Hg Vac to 15 psi †	0 to 15 psi *†	0 to 300 psi
30 Hg Vac to 30 psi †	0 to 30 psi †	0 to 400 psi
30 Hg Vac to 60 psi †	0 to 60 psi	0 to 600 psi
30 Hg Vac to 100 psi †	0 to 100 psi	1000 psi ‡
30 Hg Vac to 150 psi †	0 to 160 psi	—

Pressure range is not available in Nos. D8433 and D8439. † Pressure range is not available in Nos. D8434 and G2449. ‡ Pressure range is not available in Nos. D8438 and G2450.

Dial Size	Operating Temp. Range	Lens Material	CAST-ALUMINUM Item No.	304 STAINLESS STEEL Item No.
4½"	-40° to 140°F	Glass	D8433	D8439
4½"	-40° to 140°F	Polycarbonate	D8434	G2449
6"	-40° to 200°F	Glass	D8438	G2450


Stainless Steel


Blue


Green


Red

GA GRAINGER APPROVED

4" Colored-Case Gauges

- Accuracy: ±2-1-2%
- Polycarbonate lens
- ABS plastic housing
- Connection/internal material: brass/bronze
- ¼" NPT lower connection
- Ambient operating temp.: -40° to 150°F

Gauges measure compressed air, water, and hydraulic oil on process lines, compressors, hydraulics, and machinery.

►**Please choose:** To order, specify pressure range and color from table.

►CHOOSE: Pressure Range		►CHOOSE: Color		Item No.
0 to 15 psi	0 to 160 psi	Black	Red	
0 to 30 psi	0 to 200 psi	Blue	Yellow	
0 to 60 psi	0 to 300 psi	Green	—	
0 to 100 psi	0 to 400 psi	—	—	D1382

GA GRAINGER APPROVED

No. D1383



Metric Pressure Gauges

- Accuracy: ±3-2-3%
- Polycarbonate lens
- ABS plastic housing
- Connection/internal material: brass/bronze
- ⅛" (40mm) or ¼" (50 and 63mm) BSPT connection
- Ambient operating temp.: -4° to 158°F

BSPT threads ensure pressure-tight joints on regulators, filters, and pumps. Measure water, compressed air, and oils.

►**Please choose:** To order, specify pressure range from table.

►CHOOSE: Pressure Range		Dial Size	BOTTOM CONNECTION Item No.	CENTER BACK CONNECTION Item No.
0 to 30 psi	0 to 200 psi	1½"	D1383	D1384
0 to 60 psi	0 to 300 psi	2"	D1385	D1386
0 to 100 psi	0 to 600 psi	2½"	D1387	D1388
0 to 160 psi	0 to 1000 psi			

Bottom Connection No. D0992



ASHCROFT

2½" Oxygen Service Gauges

- Accuracy: ±1%
- Polycarbonate lens
- Stainless steel housing
- Connection/internal material: stainless steel
- ¼" NPT connection
- Ambient operating temp.: -40° to 150°F

►**Please choose:** To order, specify vacuum/pressure range from table.

►CHOOSE: Vacuum/Pressure Range		
30 to 0" Hg*	0 to 100 psi	0 to 1000 psi
30" Hg Vac to 30 psi	0 to 160 psi	0 to 3000 psi
0 to 15 psi	0 to 200 psi	0 to 5000 psi†
0 to 30 psi	0 to 300 psi	—
0 to 60 psi	0 to 600 psi	—

** Not available in Lower Back Mount. † Not available in Lower Mount.*

Connection Location	Item No.
Bottom	D0992
Lower Back	D0994

Lower Connection No. G3997



GA GRAINGER APPROVED

2½" Low Pressure Gauges

- Accuracy: ±1.5%
- Polycarbonate lens
- Steel housing
- Connection/internal material: copper alloy
- ¼" NPT connection
- Ambient operating temp.: -40° to 160°F

Kits Nos. 18C806 and 18C807 have lower connection. Each kit includes 3-ft. rubber tubing, hose nipple, ⅛" NPT male-to barb fitting adapter, ½" hose clamp, and hard carrying case.

►**Please choose:** To order, specify vacuum/pressure range from table.


Back Connection No. G3998


Low Pressure Test Kit No. 18C806

►CHOOSE: Vacuum/Pressure Range	
0 to 3 psi	0 to 160 Oz./sq. in.
0 to 5 psi	0 to 10" H_2O
0 to 10 psi	0 to 15" H_2O
0 to 10 Oz./sq. in.	0 to 30" H_2O
0 to 15 Oz./sq. in.	0 to 60" H_2O
0 to 35 Oz./sq. in.	0 to 100" H_2O
0 to 60 Oz./sq. in.	0 to 160" H_2O
0 to 100 Oz./sq. in.	0 to 200" H_2O

Description	Item No.
Lower Connection	G3997
Back Connection	G3998
Low Pressure Test Kits	
0" to 10" WC, Lower Connection	18C807
0" to 35" WC, Lower Connection	18C806

WINTERS Since 1953 We're There.

No. 38VL22




No. 491C80

Pressure Gauge Test Kits

Test Kits are secured in a durable, latching fitted case.

Description	Range	Includes	Item No.
PGWT Low Pressure Gas and Water Test Kit	0 to 5 psi/0 to 150 psi	Gauge, Hand Pump, Fittings, Carrying Case	38VL22
PLPT Low Pressure Gas Test Kit	0 to 5 psi	Gauge, Hand Pump and Hose, Mini Ball Valve, Test Block, Nipple and Fittings	38VL23
	0 to 35" H2O	Tube Nipple, Hose	491C80

GA GRAINGER APPROVED

Front Flange-Mount Panel Gauges

- Accuracy: ±3-2-3%
- Polycarbonate lens
- Connection/internal material: brass/bronze
- Back connection

Use with air compressors, pumps, and similar equipment.


No. D1372

►**Please choose:** To order, specify vacuum/pressure range from table.

►CHOOSE: Vacuum/Pressure Range		Dial Size	Connection Size	Item No.
30 to 0" Hg Vac	0 to 160 psi	2"	⅛"	D1371
0 to 15 psi	0 to 200 psi		¼"	D1372
0 to 30 psi	0 to 300 psi	2½"	⅛"	D1373
0 to 60 psi	0 to 600 psi		¼"	D1374
0 to 100 psi	—	3½"	¼"	D1375

GA GRAINGER APPROVED

U-Clamp Panel-Mount Gauges

- Accuracy: ±3-2-3%
- Polycarbonate lens
- Steel housing
- Connection/internal material: brass/bronze
- Back connection

Measure air, water, gas, and oils.

For leak-free connections, thread sealant and sealant tape are available on Grainger.com®; search for the desired gauge, then scroll down to Related Products to see items chosen specifically for that gauge.


No. D1377

►**Please choose:** To order, specify vacuum/pressure range from table.

►CHOOSE: Vacuum/Pressure Range		Dial Size	Connection Size	Item No.	
30 to 0" Hg Vac	0 to 300 psi	2"	⅛"	D1376	
0 to 30 psi	0 to 400 psi		¼"	D1377	
0 to 60 psi	0 to 600 psi	2½"	⅛", ¼"	D1378	*
0 to 100 psi	0 to 1000 psi		⅛"	D1379	
0 to 200 psi	0 to 3000 psi	3½"	¼"	D1381	

** Only Nos. 4UA29 and 4UA30 are ¼" NPT.*

Lead-Free Pressure Gauges



No. J1384



No. J1380



No. J1382

▶CHOOSE: Range (psi/kPA)	Operating Temp. Range	Case Material	Case Color	Lens Material	Connection	Item No.
PCT-LF Series, Zero Adjustment Screw, CRN Registered, Dry, ±1.00%						
4½" Dial Size						
0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 1000, 0 to 15, 30" Hg Vac to 0, 0 to 30, 0 to 400, 0 to 600	-40° to 200°F	304 Stainless Steel	Silver	Acrylic	¼" NPT Bottom	**J1384**
PEM-LF Series, Friction Bezel Ring, CRN Registered, Dry, ±3-2-3%						
1½" Dial Size						
30" Hg Vac to 0, 0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300	-40° to 150°F	Steel	Black	Polycarbonate	⅛" NPT Bottom	**J1377**
	-40° to 150°F	Steel	Black	Polycarbonate	⅛" NPT Center Back	**J1385**
2" Dial Size						
30" Hg Vac to 0, 0 to 15, 0 to 160, 0 to 300, 0 to 30, 0 to 60, 0 to 100, 0 to 200	-40° to 150°F	Steel	Black	Polycarbonate	⅛" NPT Bottom	**J1378**
0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 30" Hg Vac to 0, 0 to 15, 0 to 30	-40° to 150°F	Steel	Black	Polycarbonate	¼" NPT Bottom	**J1379**
0 to 30, 0 to 60, 0 to 100, 0 to 160, 30" Hg Vac to 0, 0 to 15, 0 to 200, 0 to 300	-40° to 150°F	Steel	Black	Polycarbonate	⅛" NPT Center Back	**J1386**
0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 30" Hg Vac to 0, 0 to 15	-40° to 150°F	Steel	Black	Polycarbonate	¼" NPT Center Back	**J1387**
2½" Dial Size						
30" Hg Vac to 0, 100 kPa Vac to 0, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 15, 0 to 600, 0 to 400, 0 to 1000	-40° to 150°F	Steel	Black	Polycarbonate	¼" NPT Bottom	**J1380**
30" Hg Vac to 0, 0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 600	-40° to 150°F	Steel	Black	Polycarbonate	¼" NPT Center Back	**J1388**
PFQ-LF Series, Pulsation Resistant, Restricted Orifice, Crimp-On Bezel, CRN Registered, Glycerin, ±1.50%						
2½" Dial Size						
0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 15, 30" Hg Vac to 0, 0 to 30, 0 to 600, 0 to 1000, 0 to 400	-4° to 150°F	304 Stainless Steel	Silver	Polycarbonate	¼" NPT Bottom	**J1382**
4" Dial Size						
30" Hg Vac to 0, 0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 400, 0 to 600, 0 to 1000	-4° to 150°F	304 Stainless Steel	Silver	Polycarbonate	¼" NPT Bottom	**J1383**



No. H8412

PIC GAUGES

Heavy-Duty All Stainless Gauges

- Accuracy: ±1%
- Laminated safety glass lens
- Process operating temp. range: -30° to 180°F
- Stainless steel housing and ring

With removable bezels, these gauges can be recalibrated and are designed for use in demanding applications.

▶CHOOSE: Range (psi)	Connection Size	Includes	Item No.
Compound Gauges			
4" Dial Size			
30" Hg Vac to 15, 30" Hg Vac to 30, 30" Hg Vac to 60, 30" Hg Vac to 100, 30" Hg Vac to 160, 30" Hg Vac to 300	¼" NPT	Vent Plug	**H8415**
	½" NPT	Vent Plug	**H8410**
6" Dial Size			
30" Hg Vac to 30, 30" Hg Vac to 60, 30" Hg Vac to 160, 30" Hg Vac to 300	¼" NPT	Vent Plug	**H8416**
30" Hg Vac to 30, 30" Hg Vac to 60, 30" Hg Vac to 100, 30" Hg Vac to 160, 30" Hg Vac to 300	½" NPT	Vent Plug	**H8411**
Pressure Gauges			
4" Dial Size			
0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 400, 0 to 600, 0 to 1000, 0 to 1500, 0 to 2000, 0 to 3000, 0 to 5000, 0 to 6000	¼" NPT	Vent Plug	**H8417**
0 to 10,000, 0 to 15,000, 0 to 20,000	¼" NPT	Vent Plug	**H8413**
0 to 300, 0 to 10,000, 0 to 15,000, 0 to 20,000, 0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 400, 0 to 600, 0 to 800, 0 to 1000, 0 to 1500, 0 to 2000, 0 to 3000, 0 to 5000, 0 to 6000	½" NPT	Vent Plug	**H8412**
4½" Dial Size			
0 to 100	¼" NPT	Safety Blowout Plug	**19RZ37**
6" Dial Size			
0 to 300	½" NPT	Vent Plug	**19RZ36**
0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 300, 0 to 400, 0 to 600, 0 to 1000, 0 to 1500, 0 to 2000, 0 to 3000, 0 to 5000, 0 to 6000, 0 to 10,000	¼" NPT	Vent Plug	**H8414**
0 to 15, 0 to 30, 0 to 60, 0 to 100, 0 to 160, 0 to 200, 0 to 400, 0 to 600, 0 to 1000, 0 to 1500, 0 to 2000, 0 to 3000, 0 to 5000, 0 to 6000, 0 to 10,000	½" NPT	Vent Plug	**H8409**
Vacuum Gauges			
4" Dial Size			
30" Hg Vac to 0	¼" NPT	Vent Plug	**20TX09**
	½" NPT	Vent Plug	**20TW86**
6" Dial Size			
30" Hg Vac to 0	½" NPT	Vent Plug	**20TX34**
	¼" NPT	Vent Plug	**20TX55**



No. H8400

PIC GAUGES

Liquid-Filled Gauges with Stainless Steel Cases

- Polycarbonate lens
- Process operating temp. range: 30° to 160°F

These crimped-bezel gauges come standard with glycerin fill and are suitable for applications where vibration or pulsation is present.

▶CHOOSE: Range	Connection	Material	Accuracy	Item No.
Compound Gauges				
4" Dial Size				
30" Hg Vac to 15 psi, 30" Hg Vac to 30 psi, 30" Hg Vac to 60 psi, 30" Hg Vac to 100 psi, 30" Hg Vac to 160 psi, 30" Hg Vac to 300 psi	¼" MNPT Bottom	Copper Alloy	±2-1-2%	**H8405**
30" Hg Vac to 30 psi, 30" Hg Vac to 60 psi, 30" Hg Vac to 100 psi	½" MNPT Bottom	Copper Alloy	±2-1-2%	**H8404**
30" Hg Vac to 30 psi, 30" Hg Vac to 60 psi, 30" Hg Vac to 160 psi	½" MNPT Bottom	316 Stainless Steel	±2-1-2%	**H8408**
Pressure Gauges				
1½" Dial Size				
0 to 300 psi	⅛" MNPT Bottom	Copper Alloy	±3-2-3%	**19RZ16**
2" Dial Size				
0 to 100 psi	¼" MNPT Bottom	Copper Alloy	±3-2-3%	**19RZ17**
0 to 160 psi	¼" MNPT Center Back	Copper Alloy	±3-2-3%	**19RZ21**
2½" Dial Size				
0 to 300 psi	¼" MNPT Center Back	Copper Alloy	±2-1-2%	**19RZ22**
0 to 3000 psi	¼" MNPT Bottom	Copper Alloy	±2-1-2%	**19RZ18**
	Number 4 SAE Bottom	Copper Alloy	±2-1-2%	**19RZ24**
0 to 6000 psi, 0 to 10,000 psi, 0 to 15,000 psi	¼" MNPT Center Back	316 Stainless Steel	±2-1-2%	**J2428**
0 to 6000 psi, 0 to 10,000 psi, 0 to 15,000 psi, 0 to 20,000 psi	¼" MNPT Bottom	316 Stainless Steel	±2-1-2%	**J2427**
4" Dial Size				
0 to 15 psi, 0 to 30 psi, 0 to 60 psi, 0 to 100 psi, 0 to 160 psi, 0 to 200 psi, 0 to 300 psi, 0 to 400 psi, 0 to 500 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 1500 psi, 0 to 2000 psi, 0 to 3000 psi, 0 to 5000 psi, 0 to 6000 psi, 0 to 10,000 psi, 0 to 15,000 psi	¼" MNPT Bottom	Copper Alloy	±2-1-2%	**H8400**
0 to 15 psi, 0 to 30 psi, 0 to 60 psi, 0 to 100 psi, 0 to 160 psi, 0 to 200 psi, 0 to 300 psi, 0 to 400 psi, 0 to 500 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 1500 psi, 0 to 2000 psi, 0 to 3000 psi, 0 to 6000 psi	½" MNPT Bottom	Copper Alloy	±2-1-2%	**H8403**
0 to 15 psi, 0 to 30 psi, 0 to 60 psi, 0 to 100 psi, 0 to 160 psi, 0 to 200 psi, 0 to 300 psi, 0 to 400 psi, 0 to 600 psi, 0 to 1000 psi, 0 to 1500 psi, 0 to 2000 psi, 0 to 3000 psi, 0 to 5000 psi	½" MNPT Bottom	316 Stainless Steel	±2-1-2%	**H8407**
0 to 300 psi	¼" MNPT Center Back	Copper Alloy	±2-1-2%	**19RZ23**
0 to 5000 psi	½" MNPT Bottom	Copper Alloy	±2-1-2%	**19RZ19**
0 to 10,000 psi, 0 to 15,000 psi	½" MNPT Bottom	Copper Alloy	±2-1-2%	**H8402**
	½" MNPT Bottom	316 Stainless Steel	±2-1-2%	**H8406**
Vacuum Gauges				
4" Dial Size				
30" Hg Vac to 0	¼" MNPT Bottom	Copper Alloy	±2-1-2%	**20TV39**
	½" MNPT Bottom	Copper Alloy	±2-1-2%	**20TV64**
	½" MNPT Bottom	316 Stainless Steel	±2-1-2%	**30ZV76**



ASHCROFT

Pressure/Vacuum Transducers

- Power required: 10-36VDC
- Output: 4-20mA DC
- NEMA 4X

Wetted materials from 316 to 304 and 17-4 PH stainless steel. 36" wire leads.

►**Please choose:** To order, specify pressure range from table.

►CHOOSE: Pressure Range	
0 to 15 psi	0 to 150 psi
0 to 30 psi	0 to 1000 psi
0 to 60 psi	0 to 3000 psi
0 to 100 psi	0 to 5000 psi

Process Connec.	Electrical Connec.	Housing	Lead Length	Item No.
¼" NPT	½" NPT Male Conduit	Stainless Steel	36"	**D1672**

Pressure Transducers

ASHCROFT

Digitally compensated transmitters are for any process compatible with 316 stainless steel.

►**Please choose:** To order, specify process connection and pressure range from table.

A2X SERIES, NOS. D3867 AND D3841, EXPLOSIONPROOF

- Explosion- and flameproof for Class I, Div. 1 and 2, Groups A, B, C, and D; and Class II, Div. 1 and 2, Groups E, F, and G
- Accuracy: ± 0.25%
- NEMA 7 and 9

Wetted materials are 316 stainless steel.

A4 SERIES, NO. D3836, INTRINSICALLY SAFE

- Intrinsically safe for Class I, II, and III, Div. 1 and 2, Groups A, B, C, D, F, and G
- Accuracy: ± 0.25%
- NEMA 4X

Wetted materials are 316L stainless steel.



Nos. D3867 and D3841

No. D3836

►CHOOSE: Process Connection	►CHOOSE: Pressure Range		
¼" NPT Male	30 Hg Vac to 15 psi	0 to 60 psi	0 to 500 psi
¼" NPT Female	0 to 5 psi	0 to 100 psi	0 to 1000 psi
½" NPT Male	0 to 15 psi	0 to 200 psi	0 to 3000 psi
½" NPT Female	0 to 30 psi	0 to 300 psi	0 to 5000 psi

Electrical Connec.	Power Req.	Output	Lead Length	Item No.
Explosionproof Transmitter				
½" NPT Male Conduit	10 to 36VDC	1 to 5VDC	36"	**D3867**
Explosionproof Compound Transmitter				
½" NPT Male Conduit	10 to 36VDC	1 to 5VDC	36"	**D3867**
Explosionproof Transmitter				
½" NPT Male Conduit	12 to 30VDC	4 to 20 mA at 12 to 30VDC	36"	**D3841**
Explosionproof Compound Transmitter				
½" NPT Male Conduit	12 to 30VDC	4 to 20 mA at 12 to 30VDC	36"	**D3841**
Intrinsically Safe Transmitter				
DIN 43650-A	12 to 30VDC	4 to 20 mA at 12 to 30VDC	—	**D3836**
Intrinsically Safe Compound Transmitter				
DIN 43650-A	12 to 30VDC	4 to 20 mA at 12 to 30VDC	—	**D3836**

Transducers with Display

ASHCROFT



GC35 Series

GC35 SERIES

- IP65 (ranges ≤ 300 psi) or IP67 (ranges > 300 psi)

3-in-1 digital pressure gauge/switch/transducer is push-button configurable for analog scaling of switch settings. Nickel-plated aluminum housing.



GC51 Series

GC51 SERIES

- NEMA 4X (IP65)

Rangeable pressure transmitter features thin-film sensor suitable for applications where high overpressure and high cycle life are necessary. Push-button configurable ranges. Min./Max./Hold and scaling functions. Epoxy-coated aluminum die-cast housing.



GC52 Series

GC52 SERIES

- NEMA 4X (IP65)

Rangeable wet/wet differential pressure transmitter is for applications requiring low differential pressure measurement with static pressure to 300 psi. Push-button configurable ranges. Scaling function. Epoxy-coated aluminum die-cast housing.

Range	Power Req.	Output	Process Connection	Wiring Entry	Wetted Materials	Item No.
GC35 Series Pressure Transmitter						
0 to 50 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE2**
0 to 100 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE3**
0 to 150 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE4**
0 to 300 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE5**
0 to 500 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE6**
0 to 1000 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE7**
0 to 1500 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE8**
0 to 3000 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDE9**
0 to 5000 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDF0**
0 to 7500 psi	16 to 36VDC	4 to 20mA DC	¼" MNPT	4 Pin M12 Connector	SS	**5DDF1**
GC51 Series Compound Transmitter						
30" Hg Vac to 15 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD5**
GC51 Series Pressure Transmitter						
0 to 50 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDC8**
0 to 100 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDC9**
0 to 150 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD0**
0 to 300 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD1**
0 to 1000 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD2**
0 to 3000 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD3**
0 to 5000 psi	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD4**
GC52 Series Compound Transmitter						
-8 to 8 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDE0**
-40 to 40 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDE1**
GC52 Series Pressure Transmitter						
0 to 4 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD6**
0 to 8 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD7**
0 to 40 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD8**
0 to 200 In WC	12 to 32VDC	4 to 20mA DC	¼" FNPT	½" FNPT	316 SS	**5DDD9**

Pressure Data Loggers

DICKSON MONARCH INSTRUMENT



No. 2TLA5



No. 45RM55



No. 36J809

DICKSON

Measure water, gas, or oil pressure with this 64 KB Storage Water-resistant IP68 logger. It displays 7 units of measure, along with low battery, and Min./Max. Data can be downloaded via USB cable or flash card. ¼" NPT connection.

MONARCH TRACK-IT™

Battery-powered, water-resistant IP67 loggers display and record up to 130,000 samples. Record pressure, vacuum, temperature, and parameter alone. Feature alarm set points and indicators, real time data, and Min./Max. readings are displayed live. The data logger plugs into a USB port on your PC; allowing you to customize settings, transfer data, or view data in real time with the included Track-It™ software program. Include software, USB cable, and battery. ¼" male NPT connection.

Pressure Range	Sample Point Storage	Digital Readout	Software Req.	Mfr. Model	Item No.
Dickson					
Pressure with Display					
0 to 100 psi	64,000	LCD	4LB62	PR125	**2TLA3**
0 to 300 psi	64,000	LCD	4LB62	PR325	**2TLA4**
0 to 500 psi	64,000	LCD	4LB62	PR525	**2TLA5**
Monarch					
Pressure And Temperature with Display					
0 to 35 psia	130,000	LCD	Yes	5396-0334	**45RM61**
0 to 35 psig	130,000	LCD	Yes	5396-0374	**45RM55**
0 to 150 psia	130,000	LCD	Yes	5396-0331	**45RM62**
0 to 150 psig	130,000	LCD	Yes	5396-0371	**45RM56**
0 to 350 psia	130,000	LCD	Yes	5396-0332	**45RM63**
0 to 350 psig	130,000	LCD	Yes	5396-0372	**45RM57**
0 to 550 psia	130,000	LCD	Yes	5396-0333	**45RM64**
0 to 550 psig	130,000	LCD	Yes	5396-0373	**45RM58**
0 to 760 Torr	130,000	LCD	Yes	5396-0338	**45RM68**
0 to 2000 psia	130,000	LCD	Yes	5396-0335	**45RM65**
0 to 2000 psig	130,000	LCD	Yes	5396-0375	**45RM59**
0 to 5800 psia	130,000	LCD	Yes	5396-0336	**45RM66**
0 to 5800 psig	130,000	LCD	Yes	5396-0376	**45RM60**
380 to 760 Torr	130,000	LCD	Yes	5396-0337	**45RM67**
Pressure And Temperature					
150 psi	64,000	No	Yes	Pressure Track-It 150	**36J809**
350 psi	64,000	No	Yes	Pressure Track-It 350	**36J810**
550 psi	64,000	No	Yes	Pressure Track-It 550	**36J811**

Tank Gauges

Read Full/Empty/8ths of a tank.

H Series is primarily for above-ground storage tanks. Stainless steel units have all-stainless steel wetted materials for outstanding compatibility with aggressive chemicals.

PH Series are all-plastic for maximum compatibility with aggressive chemicals.

Series	▶CHOOSE: Tank Depth	▶CHOOSE: Connec. Size	Item No.
Galvanized Steel			
H	16", 17", 18", 19", 20", 21", 22", 23", 25", 26", 27", 28", 29", 31", 32", 33", 34", 35", 37", 39", 40", 41", 43", 45", 36", 38", 44", 24", 30", 42", 46"	2" NPT, 1.5" NPT	**G2447**
H	47", 49", 50", 51", 52", 53", 54", 55", 56", 57", 58", 59", 48", 60"	2" NPT, 1.5" NPT	**G2448**
H	61", 62", 63", 65", 66", 67", 68", 69", 70", 71", 64"	2" NPT, 1.5" NPT	**G3254**
H	73", 74", 75", 76", 77", 78", 79", 80", 81", 82", 83", 84"	2" NPT, 1.5" NPT	**G3255**
H	85", 86", 87", 88", 89", 90", 91", 92", 93", 94", 95", 96"	2" NPT, 1.5" NPT	**G3256**
H	97", 98", 99", 108"	2" NPT, 1.5" NPT	**G3257**
H	109", 110", 111", 112", 113", 114", 115", 116", 117", 118", 119", 120"	2" NPT, 1.5" NPT	**G3258**
H	121", 122", 123", 124", 125", 127", 128", 129", 130", 131", 126", 132"	2" NPT, 1.5" NPT	**G3259**
H	133", 134", 135", 136", 137", 139", 140", 141", 142", 143", 138", 144"	2" NPT, 1.5" NPT	**G3260**
PEEK Plastic			
PH	17", 18", 19", 20", 21", 22", 23", 25", 26", 27", 28", 29", 31", 32", 33", 34", 35", 37", 39", 40", 41", 43", 45", 24", 30", 36", 38", 42", 44", 46"	2" NSP, 1.5" NSP	**G3261**
PH	47", 49", 50", 51", 52", 53", 54", 55", 56", 57", 58", 59", 60"	2" NSP, 1.5" NSP	**G3262**
PH	61", 62", 63", 65", 66", 67", 68", 69", 70", 71", 64"	2" NSP, 1.5" NSP	**G3263**
PH	73", 74", 75", 76", 77", 78", 79", 72"	2" NSP, 1.5" NSP	**G3264**
PH	80", 81", 82", 83", 85", 86", 87", 88", 89", 84"	2" NSP, 1.5" NSP	**G3265**
PH	90", 91", 92", 93", 94", 95", 97", 98", 99", 96"	2" NSP, 1.5" NSP	**G3266**
PH	100", 101", 102", 103", 104", 105", 106", 107", 109", 108", 110"	2" NSP, 1.5" NSP	**G3267**
316 Stainless			
H	12", 13", 14", 15", 16", 17", 18", 19", 20", 21", 22", 23", 25", 26", 27", 28", 29", 31", 32", 33", 34", 35", 24", 30"	2" NPT, 1.5" NPT	**G3268**
H	37", 39", 40", 41", 42", 43", 45", 46", 47", 49", 50", 51", 52", 53", 54", 55", 56", 57", 58", 59", 61", 62", 63", 65", 66", 36", 38", 44", 60", 64", 48"	2" NPT, 1.5" NPT	**G3269**
H	67", 68", 69", 70", 71", 73", 74", 75", 76", 77", 78", 79", 80", 81", 82", 83", 85", 86", 87", 88", 89", 90", 91", 92", 93", 94", 95", 72", 84", 96"	2" NPT, 1.5" NPT	**G3270**
H	97", 98", 99", 100", 101", 102", 103", 104", 105", 106", 107", 109", 110", 111", 112", 113", 114", 115", 116", 117", 118", 119", 108", 120"	2" NPT, 1.5" NPT	**G3271**



H Series

Tank and Barrel Gauge Accessories

Alarms, LED remote, and gauge guards are designed to work with Krueger Sentry Gauge products. Gauge guards slide over external plastic gauge components for increased resistance to weather, sun, physical damage, and internal tank pressure.

Description	Includes	Mfr. Model	Item No.
Audible Tank Alarm	Audible Alarm, 9V Battery and Instructions	Alarm-Direct	**5CYW4**
Audible Remote Tank Alarm	Audible Alarm with 25 ft. of Wire, Red Indicator with Magnet, 9V Battery and Instructions	Alarm-Remote	**5CYW5**
LED Remote Tank Gauge	Remote Display with 25 ft. of Wire, Indicator with Magnet, 9V battery and Instructions	LED AAG	**5CYW6**
Liquid Level Gauge Guard	Protective Aluminum Cover Replaces Red Plastic Nut	Guard-AL	**5CYW7**
Liquid Level Gauge Guard	Protective PVC Cover Replaces Red Plastic Nut	Guard-PVC	**5CYW8**



LED Remote Tank Gauge

Submersible Level Transmitters

- Accuracy: ±0.25% full scale
- Power requirement: 13-30VDC
- Output signal: 4 to 20mA DC, 2-wire
- Electrical protection: Lightning and surge protection
- ½" NPT connection conduit

Measure height of liquid referenced to atmospheric pressure. Wetted materials are 316 and 316L stainless steel, epoxy adhesive, and PVC for SBLT2 series. Polyurethane models are for water monitoring, environmental remediation, and water tanks. ETFE (ethylene tetra fluoroethylene) provides a high degree of corrosion resistance for wastewater, sludge pits, clarifiers, digesters, aluminum tanks, chemical and oil tanks, lime slurry, sumps, and reservoirs.

Pressure Range	Cable Length	POLYURETHANE CABLE COATING Mfr. Model	POLYURETHANE CABLE COATING Item No.	ETFE CABLE COATING Mfr. Model	ETFE CABLE COATING Item No.
Bullet Nose, 0° to 150°F					
0 to 5 psi	40 ft.	SBLT2-5-40	**2HMC6**	SBLT2-5-40-ETFE	**2HMC2**
0 to 10 psi	40 ft.	SBLT2-10-40	**2HMC7**	SBLT2-10-40-ETFE	**2HMC3**
0 to 15 psi	60 ft.	SBLT2-15-60	**2HMC8**	SBLT2-15-60-ETFE	**2HMC4**
0 to 20 psi	60 ft.	SBLT2-20-60	**2HMC9**	SBLT2-20-60-ETFE	**2HMC5**
Bird Cage Design, 0° to 200°F					
0 to 5 psi	40 ft.	PBLT2-5-40-PU	**2HMB7**	PBLT2-5-40	**2HMB3**
0 to 10 psi	40 ft.	PBLT2-10-40-PU	**2HMB8**	PBLT2-10-40	**2HMB4**
0 to 15 psi	60 ft.	PBLT2-15-60-PU	**2HMB9**	PBLT2-15-60	**2HMB5**
0 to 20 psi	60 ft.	PBLT2-20-60-PU	**2HMC1**	PBLT2-20-60	**2HMB6**



Series SBLT2, Bullet Nose **Series PBLT2, Bird Cage Design**

Rotary Paddle Level Switches

- 1¼" connection: No. 2HMD1 is MNPT, No. 41D949 is NPT

Modular design allows field installation of paddle flanges, shaft extensions, or shaft guards. For dry powder or bulk materials compatible with wetted materials. NEMA 4X weatherproof No. 2HDM1 has a 1 rpm synchronous magnetic-drive motor that actuates switch when dry material impedes paddle (sold separately). With status indication light and screw cover. Side or top mount. SPDT switch; spring return.

Explosionproof No. 41D949 has 3 sensitivity settings. Top or side mount.

Paddle Nos. 2HMD2 and 2HMD3 are carbon steel. Nos. 2HMD4 and 2HMD5 are 316 SS.

Note: Complete unit requires paddle switch body, paddle, and coupling flange.

Probe Length	Power Req.	Enclosure	Mfr. Model	Item No.
—	120VAC	NEMA 4X	PLS-W-S-1-0-0-0-0	**2HMD1**
5.25"	120V	Explosionproof	PLS2-E-1-1	**41D949**

Description	Special Features	Mfr. Model	Item No.
For Use With 2HMD1			
Tri-Paddle	Min. Bulk Density of 5 lb. per cu.ft.	PDL-1	**2HMD2**
Tri-Paddle	Min. Bulk Density of 30 lb. per cu.ft.	PDL-2	**2HMD3**
Banana Paddle	Min. Bulk Density of 30 lb. per cu.ft.	PDL-3	**2HMD4**
L-Paddle	Min. Bulk Density of 70 lb. per cu.ft.	PDL-4	**2HMD5**
Half Coupling Flange	Carbon Steel	FLG-CSH	**2HMD6**
Full Coupling Flange	Carbon Steel	FLG-CSF	**2HMD7**
Half Coupling Flange	Stainless Steel	FLG-SSH	**2HMD8**
Full Coupling Flange	Stainless Steel	FLG-SSF	**2HMD9**
For Use With 41D949			
Double-Sided Paddle	—	PLS2-PL2	**41D950**
Single-Sided Paddle	—	PLS2-PL1	**41D951**



Paddle Level Switch Body No. 2HMD1


No. 4TM11


No. 4FB70


No. 9DUY3


No. 4YMT7


No. 5CVT8

Digital Stopwatches

GENERAL® TRACEABLE® EXTECH INSTRUMENTS

Each includes lanyard and battery.

General®—Fully featured stopwatch displays day, date, current time, and lap time. Daily alarm and hourly chime. Manufacturer's lifetime warranty.

Traceable®—Continuous timing function lets you time for hours, days, or weeks; the display rolls over to zero when it maxes out, automatically beginning timing again. No. 9DUY3 is shockproof and waterproof to 3 atmospheres. No. 4YMT7 is disposable. No. 5CVT8 has vivid, large digits. No. 9NU56 simultaneously displays running time, cumulative-split, and interval-split. 300-memory.

Each instrument is provided with a serialized Traceable® Calibration Certificate indicating traceability to standards provided by NIST.

Extech®—Nos. 4TM11 include calendar display (day, month, date), plus alarm with snooze function with time delay. Pacer function on No. 2ENF6 provides an audible metronome for use as a heart rate/pulse comparator or as a walk/run pace guide. No. 4FB70 HeatWatch displays temperature, humidity, and heat index with programmable heat index alarm. Offers fastest/slowest/average lap recall.

Timing Range	12/24-hr. Clock Operation	Elapsed Time	Split Time	Alarm	Snooze Alarm	Hour Chime	Water Resistant	Calibration Certificate	Memory Recall	Display	Battery Type	Mfr. Model	Item No.
Extech													
Count up to 23 hr., 59 min., 59 sec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	2 split and lap times	Multiline LCD	LR44	365510	**4TM11**
Count up or down to 9 hr., 59 min., 59 sec.	Yes	Yes	No	Yes	No	Yes	Yes	No	500 Records of Split and Lap Times	3-line LCD	CR2032	365535	**2ENF6**
Count up to 9 hr., 59 min., 59 sec.	Yes	Yes	Yes	Yes	No	No	No	No	30 lap/split memory	2-line LCD	CR2032	HW30	**4FB70**
Up to 23 hr., 59 min., 59 sec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	2 Split and Lap Times	Multiline LCD	CR2032	STW515	**55CH80**
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2 Split and Lap Times	Multiline LCD	CR2032	STW515-NIST	**55CH81**
General													
Count up to 23 hr., 59 min., 59 sec.	Yes	No	No	No	Yes	Yes	Yes	No	No	½", LCD	CR2016	SW100A	**9PYC8**
Traceable													
Count up to 23 hr., 59 min., 59 sec.	Yes	No	Yes	Yes	No	No	Yes	Yes	No	¼", LCD	357	1042	**9DUY3**
	Yes	Yes	Yes	No	No	No	No	Yes	No	⅓", LCD	392	1043	**4YMT7**
	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	½", LCD	CR2032	1051	**5CVT8**
	Yes	Yes	Yes	Yes	Yes	No	Yes	No	300 Records of Split	3-line LCD	CR2032	1052	**9NU56**


No. 9NLW2

Digital Timers

TRACEABLE® Cooper ATKINS® SUPPLIER DIVERSITY TAYLOR®

- Min. time setting: 0.1 sec.

TRACEABLE®

Each timer is provided with a serialized Traceable Calibration Certificate indicating traceability to standards provided by NIST.


No. 8RLR2


No. 8GHH3

Alarm Timer —4-channel device functions as count up/down timer, time in/out display, and 12/24 hr. clock. Memory resets display to previously programmed countdown time.

Clip-It Timer—Multitasking timer clips to any lab surface. Memory saves last programmed setting for quick recall: useful for repetitive timing events. Features loud, 1 min. alarm.


No. 4YMT6


No. 6KED8

Countdown Timer No. 8GHH3—View large 1⅓" digits from across the room. 1-touch recall returns channel to previously programmed setting. Countdown/up and stopwatch modes.

Countdown Timer No. 4YMT6—Jumbo digit, lightweight and portable timer's memory resets display to last programmed time for quick repeat of frequent, routine tests. Loud 30-sec. alarm.


No. 8PGN6


No. 9JAZ8

Jumbo Timer—Display adjusts from 90° to 180° for angled viewing. Counts up after alarm to show elapsed time since alert. Also has time in/out, 12/24-hr. clock, and stopwatch functions.

Nano™ Timer—Operates as a countdown alarm timer, stopwatch (count up), or 12/24-hr. clock. Compact design with large digits for readability. 2-channel memory automatically resets display to the original programmed time.


No. 6KED7


No. 3NZR6

Timer No. 6KED7—Big-digit timer has adjustable alarm and flashing LED alert. Green light flashes every second after timing reaches 10 sec.; red indicator flashes when zero is reached and shows time elapsed since alarm. Adjust volume for high, low, or off for silent flashing LED alert.

Timer No. 8UU14—Extra-loud alarm on each channel is well-suited for high-noise areas. Big keys make it easy to operate. Timer counts up or down and and allows unlimited time-outs.

Flashing LED Big-Digit Dual Channel Timer—6-digit, dual channel display. Features 2 simultaneous countdown activities, flashing LED timing indicator/alarm and adjustable volume. Green light flashes counting down, red light flashes once at zero.

COOPER-ATKINS®

24-Hr. Digital Timer—Large single-station timer has a red alert light that flashes when the alarm sounds. Automatically counts up once the set time has elapsed. Handy 1-touch Start/Stop button.

TAYLOR®

Digital Timer No. 2DBE9—Easy-to-read and program 10-key timer. Times up/down. Water-resistant, smooth membrane surface. Magnetic back or built-in stand.

Digital Timer No. 3NZR6—Easy-to-use, multipurpose timer counts up or down. Compact with clip, magnet, or stand positioning.

Loud Digital Timer—Times up to 4 events simultaneously with distinctive 100dB alarms for each event. Adjustable volume. Lights flash at zero. Stand or wall mount.


No. 8UU14


No. 2DBE9


No. 9JXT0

Item	Max. Time Setting	Display	Alarm	Display	Battery Type	Mfr. Model	Item No.
Traceable							
Alarm Timer	99 hr., 59 min., 59 sec.	¾" LCD	High-Decibel Alarm Sounds for 1 min. or Silence Manually	¾" LCD	Button Cell	5004	**8RLR2**
Clip-It Timer	99 hr., 59 min, 59 sec.	⅓" LCD	Yes	⅓" LCD	Button Cell	5046	**9NLW2**
Countdown Timer	99 min., 59 sec.	1⅓" LCD	Audible	1⅓" LCD	AAA	5011	**8GHH3**
Countdown Timer	99 min., 59 sec.	¾" LCD	Yes	¾" LCD	AAA	5028	**4YMT6**
Dual Channel Timer	99 hr., 59 min., 59 sec.	Dual LCD	Audible or Visual Alarm	Dual LCD	AAA	5017	**6KED8**
Jumbo Timer	23 hr., 59 min., 59 sec.	1" LCD	Audible and visual, each channel has distinct alarm	1" LCD	AAA	5022	**8PGN6**
Nano Timer	23 hr., 59 min., 59 sec.	⅜" LCD	High-decibel alarm sounds for 1 min.	⅜" LCD	Button Cell	5132	**9JAZ8**
Timer	99 min., 59 sec.	1" LCD	Audible or Visual Alarm	1" LCD	AAA	5013	**6KED7**
Timer	99 hr., 59 min., 59 sec.	¾" LCD	100dB alarm sounds for 1 min. or silence manually	¾" LCD	(2) AAA	5014	**8UU14**
Taylor							
Digital Timer	99 min., 59 sec.	LCD	Audible	LCD	(1) AAA	5850	**2DBE9**
Digital Timer	99 min. 59 sec.	LCD	Audible	LCD	(1) AAA	5806	**3NZR6**
Loud Digital Timer	9 hr. 59 min. 59 sec.	LCD	Audible and Visual	LCD	(4) AA	5839	**3NZT6**
Cooper Atkins							
24-Hour Digital Timer	23 hr., 59 min., 59 sec.	LCD	Audible/Visual	LCD	(1) AAA	FT24	**9JXT0**

EXTECH INSTRUMENTS

Wireless Weather Station

- Long-range transmission up to 450-ft. (150m) between base and transmitter
- Max./Min. readings with time-date stamps
- Hi/Lo alert settings and warnings
- Clock display with 5 languages

Helps plan day-to-day outdoor activities affected by weather. The indoor wireless base station with large LCD displays indoor temperature, humidity, and outdoor weather conditions, plus date and time. The outdoor wireless transmitter has 5 built-in sensors for measuring wind speed, wind direction, rainfall, temperature, and humidity. Kit is completely assembled for easy installation.



Temp. Range (F)	Wind Vel.	Wind Chill	Heat Index	UV Sensor	Barometric Pressure	Dew Point	Alarms	Display	Rain Fall	Power Source	Includes	Mfr. Model	Item No.
Indoor -40 to 158°, Outdoor -40 to 176°	0 to 111.8 mph	Yes	Yes	No	Yes	Yes	Yes	LCD	0 to 99.99"	(3) AA Batteries	Base Station with (3) AA Batteries, Transmitter with (3) AA Batteries	WTH600-KIT	**453A39**

DAVIS

Vantage Vue® Weather Station

Wireless monitoring system updates data every 2½ sec. from solar-powered sensors up to 1000 ft. away. LCD shows barometric pressure, wind direction, wind chill, dew point, and heat index. Weather center feature provides weather variables, such as daily highs/lows. Compact outdoor sensor array is fully integrated and corrosion-proof. Console requires 3 C batteries (not included) or AC power. Includes Display Console No. 4JRJ6 and sensor array with rain collector, temperature and humidity sensors, and anemometer.



No. 4JRJ5

Temp. Range (F)	Wind Vel.	Wind Chill	Heat Index	Barometric Pressure	Dew Point	Alarms	Display	Rain Fall	Includes	Mfr. Model	Item No.
Indoor 32 to 140°, Outdoor -40 to 150°	1 to 200 mph	Yes	Yes	26 to 32 InHg (880 to 1080 mbar)	Yes	Yes	Transflective LCD with Backlight	0 to 199.99"/0 to 6553mm	Integrated Sensor Suite (Contains a Rain Collector, Temp Sensor, Humidity Sensor and Anemometer), Display Console and Instructions	6250	**4JRJ5**
Accessory											
Additional Wireless Console/Receiver										6351	**4JRJ6**

DAVIS

Vantage Pro2™ Weather Stations

WEATHER STATIONS

- Temperature range: indoor 32° to 140°F; outdoor -40° to 150°F
- Relative humidity range: indoor 1% to 100%; outdoor 1% to 100%
- Wind velocity: 1 to 200 mph
- Rain fall: 0 to 199.99"; accuracy: ±4%.

Monitoring systems update data every 2½ sec. from sensors up to 1000 ft. away. LCDs show barometric pressure, wind direction, wind chill, dew point, and heat index.

No. 4JRH5 is a cabled weather station with sensor array wired to the indoor console. Runs on AC power. All others are wireless, with solar-powered outside sensors and console that requires 3 C batteries (not included) or AC power.

Nos. 4JRH6 and 4JRH8 feature 24-hr. fan-aspirated radiation shield for max. temperature/humidity accuracy.

Nos. 4JRH7 and 4JRH8 add UV and solar radiation/energy sensors. Display UV index, dose rate, and daily and accumulated dose.

No. 4JRH9 is a wireless display console only.

Use WeatherLink® software with weather stations for downloading data for reporting, analysis, and sharing over the internet. Supports National Climatic Data Center (NOAA) Weather Watcher, GLOBE student science program, and the Citizen Weather Observer Program of the National Weather Service.



No. 4JRH4

Includes	Mfr. Model	Item No.
Integrated Sensor Suite (Contains a Rain Collector, Temp Sensor, Humidity Sensor and Anemometer), Display Console, Connecting Wire and Instructions	6152C	**4JRH5**
Integrated Sensor Suite (Contains a Rain Collector, Temperature Sensor, Humidity Sensor and Anemometer), Display Console and Instructions	6152	**4JRH4**
Integrated Sensor Suite (Contains a Rain Collector, Temp Sensor, Humidity Sensor, Anemometer and Fan-Aspirated Radiation Shield), Display Console and Instructions	6153	**4JRH6**
Integrated Sensor Suite (Contains a Rain Collector, Temp Sensor, Humidity Sensor and Anemometer, Solar Radiation Sensor and UV Radiation Sensor), Display Console and Instructions	6162	**4JRH7**
Integrated Sensor Suite (Contains a Rain Collector, Temp Sensor, Humidity Sensor, Anemometer, Solar Radiation Sensor, UV Radiation Sensor and Fan-Aspirated Radiation Shield), Display Console and Instructions	6163	**4JRH8**

Item	For Use With	Mfr. Model	Item No.
Accessories			
Wireless Console/Receiver	Vantage Pro2 6152, 6153, 6162 or 6163	6312	**4JRH9**
WeatherLink™ Software, Windows, USB	—	6510USB	**4JRJ1**
WeatherLink™ Software, Windows, Serial	—	6510SER	**4JRJ2**
WeatherLink™ Software, Windows, Ethernet	—	6555	**4JRJ3**
WeatherLink™ Software, Mac, USB	Vantage Pro2, Vantage Vue, or Weather Envoy	6520	**4JRJ4**



No. 4JRH9



TRACEABLE®

Barometer

Designed with 4-line LCD display that continuously and simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend, and time-of-day. Perfect for plants, labs, and all other environments where there is a need to monitor conditions of environmental air parameters.

Altitude Range (ft.)	Barometric Pressure Range (in. Hg)	Barometric Pressure Res. (in. Hg)	Barometric Pressure Sampling Rate (sec.)	Temp. Range	Mfr. Model	Item No.
Barometer						
-328 to 8202	14.77 to 30.41	0.01	900	32° to 131°F	6530	**38RJ43**
Data Acquisition System						
Cable and Software					6531	**38RJ44**



No. 49T439



No. 2T705



No. 3T195

GA GRAINGER APPROVED TAYLOR.

Analog Thermometers

GA—Dual °F/°C temperature scales. No. 49T438 shows 0% to 100% RH; 6" dial. No. 49T439 has a 12" dial. No. 3LYK1 has a 12½" dial.

Taylor®—Thermometers have both °F and °C scales. Cold Room units are 12"H. No. 2T705 has a temp. range of -40° to 70°F; No. 2T706 has a temp. range of -30° to 120°F. No. 3T195 has 18"-dia. metal housing and plastic crystal.

Application	Temp. Range (F)	Degree Divisions	H	Dia.	Scale Color	Mounting	Item No.
GA							
Indoor	-60° to 120°	2°F	—	12"	White	Wall	**49T439**
	30° to 250°	2°F	—	—	Black	Wall	**49T438**
Indoor/Outdoor	-40° to 120°	2°F	8½"	—	Black	Wall	**3LPD7**
	-60° to 140°	2°F	—	12½"	Black	Wall	**3LYK1**
Taylor							
Cold Room	±1°	1°F	12"	—	Black	Wall	**2T705**
	±2°	2°F	12"	—	Black	Wall	**2T706**
Indoor/Outdoor	-60° to 120°	2°F	—	18"	Black/White	Wall	**3T195**



No. 21RV54



No. 15E593



No. 21YE40

EXTECH INSTRUMENTS

Desktop Indoor Air Quality (IAQ) CO_2 Monitors

- 0 to 9999 ppm CO_2 concentration
- RH range: 0.1% to 99.9%
- Min./max. CO_2 value recall

Nos. 21RV54 and 15E593—Display air quality as Good/Normal/Poor, plus year, month, date, and time. Feature automatic baseline calibration (ABC) or use manual calibration in fresh air.

No. 15E593 logs up to 5333 data points that can be downloaded to a Windows® compatible computer for analysis; software and cable included.

Nos. 21YE40—Calculate statistical weighted averages of TWA (8-hr. time weighted average) and STEL (15-min. short term exposure limit).

No. 21YE40 employs 6 facial icons to indicate IAQ levels. Displays CO_2 ppm, year, month, date, and time. ABC. Manually stores/recalls 99 readings.

Temp. Range (F)	Digital Readout	Alarm	Mfr. Model	Item No.
23° to 122°	LCD	Audible and Visual	CO100	**21RV54**
14° to 140°	Multifunction LCD	High/Low Audible	CO210	**15E593**
14° to 140°	LCD	Audible and Visual	CO220	**21YE40**



No. 2LVN1

EXTECH INSTRUMENTS

Paperless Temperature/Humidity Monitors

- Graphical data logger
- Stores up to 49,512 readings
- Desk or wall mount

Simultaneous shows numerical and graphical display of humidity and temperature readings plus time and date. Also measures humidity (10% to 95% relative) and temp. (-20° to 140°F). Feature a replaceable probe that extends up to 3-ft. for measurements in closed environments. Audible and visual alarm with user programmable High/Low setpoints. Output socket can be connected to a relay to trigger an external alarm when setpoints are exceeded. Units can be wall-mounted or placed on a desktop. LabView™ software calculates and graphs dew point, wet bulb, and GPP (grains per pound). Include RS-232 cable, USB adapter, AC adapter, and AA batteries. Optional Relay Module No. 4GE81, sold separately, is available on Grainger.com®.

Description	Temp. Range (F)	Mfr. Model	Item No.
Temperature and Humidity Paperless Chart Recorder	-20° to 140°	RH520A	**2LVN1**
Temperature and Humidity Chart Recorder w/NIST	-20° to 140°	RH520A-NIST	**22DC77**
Relative Humidity/Temperature Probe, 36" Cord, For Use With Mfr. No. RH520		RH522	**4GE46**


No. 5WG21


No. 6DKD3


No. 5WX81


No. 2DBD4


No. 4DKK1


No. 4LY14


No. 3KGL8


No. 3KTW3

Digital Pocket Thermometers

Stem Length	Features	Includes	Battery Type	Std.	Brand	Item No.
-58° to 300°F						
5"	Field Calibration	Thermometer and Pocket Protector	LR44	—	Test Products Intl.	**36M831**
-58 to 302°F						
5"	On/Off Switch	Plastic Sheath, Pocket Clip, Battery	LR44	CE	Extech	**1M954**
-58 to 572°F						
2¾"	Plastic for Outside Use	Plastic Protective Sheath	—	—	GA	**23NU32**
3¼"	Hold/Min/Max, Low Battery Indicator	Battery, Multipurpose Probe Cover, Magnetic Mount	LR44	NSF, CE	UEI Test Instruments	**9NZM8**
3¼"	Hold/Min/Max, Low Battery Indicator	Pocket Clip, Battery, Folding Probe, Magnet	LR44	CE	UEI Test Instruments	**21CH60**
4½"	Hold/Min/Max, Detents at 45°, 90°, 135° and 180°, Large LCD Display	Wrist Strap, Battery	AAA	CE	Extech	**5WG21**
4¾"	180° Swivel Head	Plastic Protective Sheath	—	—	GA	**23NU20**
4¾"	ABS Plastic for Outside Use, Traceable	Plastic Protective Sheath	—	—	GA	**23NU21**
5"	Hold/Min/Max, Low Battery Indicator	Pocket Clip, Button Style Battery	LR44	NSF, CE	UEI Test Instruments	**9UGY9**
8"	Long Stem	Plastic Protective Sheath	—	—	GA	**23NU22**
-40 to 302°F						
4¾"	On/Off Button, F/C Button	Battery, Rubber Boot, Instructions	LR44	NSF Certified	Taylor	**6DKD4**
5"	On/Off Button, F/C Button	Pocket Clip, Battery	LR44	NSF	Taylor	**6DKD3**
-40 to 392°F						
2¾"	IPX7 Waterproof Rating, Less Than 6 sec. Response Time	Pocket Clip	LR44	NSF, CE, WEEE, RoHS	Cooper Atkins	**5WX81**
2¾"	Hold/Min/Max, Waterproof	LR44 Battery, Protective Cover and Manual	LR44	CE	Extech	**21EP01**
-40 to 450°F						
2¾"	Hold/Min/Max, Waterproof, HACCP Approved	Anti Microbial Protective Sheath, Lanyard	CR2032	NSF	Taylor	**2DBD4**
4"	Hold/Min/Max, IPX7 Waterproof Rating, Low Battery Indicator	Anti Microbial Protective Sheath, Pocket Clip	LR44	NSF, CE, WEEE, RoHS	Cooper Atkins	**24Y993**
4¾"	Hold/Min/Max, Temperature Alarm, IPX7 Waterproof Rating, Low Battery Indicator	Pocket Clip, Extra Battery	LR44	NSF, CE, WEEE, RoHS	Cooper Atkins	**4DKK1**
5"	On/Off Switch, Waterproof, F/C Button	Anti Microbial Protective Sheath, Pocket Clip, Battery	LR44	NSF	Taylor	**4LY14**
-40 to 500°F						
4¾"	On/Off Button, F/C Button	Battery, Instructions	LR44	NSF Certified	Taylor	**6DKE0**
-40 to 572°F						
4½"	Hold/Min/Max, Probe Folds Out	Wrist Strap, Battery	AAA	—	Traceable	**3KGL8**
4¾"	Hold/Min/Max, Waterproof and Shockproof	Suction Cups, Magnet, Velcro® Strips, Battery	389	—	Traceable	**3KTW3**

Pocket Analog Thermometers

▪ Stainless steel stem ▪ 1" dial with 5" stems

Includes	Features	NSF Certified	Brand	Item No.
Temp. Range -40 to 120°F				
Plastic Stem Case, Shirt Clip	—	No	Taylor	**3JPJ5**
Temp. Range -40 to 160°F				
Plastic Protective Sheath	—	No	GA	**23NU23**
Plastic Protective Sheath and Stainless Clip	—	No	GA	**23NU25**
Plastic Stem Case, Shirt Clip	Pocket Clip	No	General	**3LRW1**
Pocket Clip/Sheath	Single Point Calibration, Glow in the Dark Dial	Yes	Taylor	**2T696**
Pocket Sheath	Magnifying Domed Lens, Large Easy to Read Pointer	Yes	GA	**6DKD1**
Temp. Range 0 to 220°F				
Plastic Protective Sheath	—	No	GA	**23NU28**
	ABS Plastic for Outside Use	No	GA	**23NU29**
Plastic Protective Sheath and Stainless Clip	—	No	GA	**23NU26**
Plastic Stem Case, Shirt Clip	—	No	Thermco	**3LPJ8**
Pocket Clip/Sheath	Antibacterial Pocket Sleeve	Yes	Taylor	**5XL15**
	Single Point Calibration, Glow in the Dark Dial	Yes	Taylor	**2T697**
Pocket Sheath	Magnifying Domed Lens, Large Easy to Read Pointer	Yes	GA	**6DKD2**
Temp. Range 25 to 125°F				
Plastic Protective Sheath	Plastic for Outside Use	No	GA	**23NU30**
Plastic Protective Sheath and Stainless Clip	—	No	GA	**23NU24**
Plastic Stem Case, Shirt Clip	—	No	Taylor	**3JPK2**
	—	No	Thermco	**3LPJ4**
Temp. Range 50 to 550°F				
Plastic Protective Sheath and Stainless Clip	—	No	GA	**23NU27**


No. 3LRW1


No. 2T697

Glass Stick Pocket Thermometers

▪ Accuracy: ±3°F
▪ Tempered glass case

Use to continually monitor temperature. Nontoxic liquid fill.

Temp. Range	Scale Divisions	L	Item No.
-30° to 120°F	2°	6.25"	**6DKC9**
0° to 220°F	2°	6.25"	**6DKD0**




No. 3KTJ8
No. 33HP71

No. 3KGR3


No. 3KTV4

No. 3KTU9

No. 6KED3

No. 6KDZ8

TRACEABLE® Cooper ATKINS®

Refrigerator/Freezer and Incubator Thermometers

Each model is individually serialized, calibrated, and provided with the Traceable® Certificate from Control Company's calibration laboratory. The certificate indicates traceability to standards provided by NIST. The glycol bottle probe is sealed in a miniature 10mL bottle or 5mL vaccine bottle filled with nontoxic glycol. The FDA generally recognizes the solution as safe. The bottle and solution insulate sensor from rapid changes. The solution mimics temperature of samples.

Probe Style	Temp. Range		Temp. Res.	Temp. Accuracy	Alarm	Battery Type	Digit Size	Features	Brand	Mfr. Model	Item No.
Data Logging Thermometer											
Bottle	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Permanent Memory-Loc Data Retrievable via USB Port, Capable of Storing Over 1 Million Temperature Observations, Stores Up to 10 Unique Alarm Events	Traceable	6440	**33HP71**
(2) Bottle	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Permanent Memory-Loc Data Retrievable via USB Port	Traceable	6441	**33HP72**
Bullet	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"		Traceable	6442	**33HP73**
(2) Bullet Probes	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"		Traceable	6443	**33HP74**
Bottle, Bullet	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"		Traceable	6444	**33HP75**
Digital Thermometer											
No Probe	-13° to 158°F	—	0.1°F	±2°F	No	AAA	1¼"	Big Digit See-Thru™ Display	Traceable	4159	**3KTJ8**
	32° to 113°F	0 to 45°C	0.1°F	±2°F	No	AG10	½"	30 Second Display Update	Traceable	4157	**3KGR3**
Bottle	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6430	**33HP64**
	-58° to 158°F	-50° to 70°C	0.01°F	±0.6°F	High/Low	AA	½"	High Accuracy with Time/Date of Min/Max Memory	Traceable	4238	**6KEA8**
	-58° to 158°F	-50° to 70°C	0.1°F	±1°F	High/Low	AA	¾"	—	Traceable	4227	**3KTV4**
	-58° to 158°F	-50° to 70°C	0.1°F	±2°F	High/Low	AAA	1½"	Large Digits, 1.5"	Traceable	4548	**6KEA6**
	-58° to 158°F	-50° to 70°C	1°F	±2°F	High/Low	AA	½"	—	Traceable	4127	**3KTU9**
	-58° to 158°F	-50° to 70°C	1°F	±2°F	No	G13	½"		Traceable	4322	**6KED4**
	-58 to 158°FF	-50° to 70°C	0.1°F	±1°F	Smart	AAA	½"	Minimum and Maximum Memory	Traceable	4730	**38RJ45**
	-40° to 176°F	-40° to 80°C	0.1°F	±3°F	No	AAA	⅜"	Time and Date of Min/Max Memory	Traceable	4305	**6KEA3**
	—	-50° to 70°C	1°F	±2°F	No	G13	½"	—	Traceable	4321	**6KED3**
(2) Bottle	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6431	**33HP65**
	-58° to 158°F	-50° to 70°C	0.01°F	±0.6°F	High/Low	AA	½"	High Accuracy with Time/Date of Min/Max Memory	Traceable	4239	**6KEA9**
	-58° to 158°F	-50° to 70°C	0.1°F	±1°F	Smart	AAA	½"	Minimum and Maximum Memory	Traceable	4731	**38RJ46**
	-58° to 158°F	-50° to 70°C	0.1°F	±2°F	High/Low	AAA	½"	Dual Probe Time and Date of Min/Max Memory	Traceable	4306	**6KED1**
Bullet	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6432	**33HP66**
	-58° to 158°F	-50° to 70°C	0.1°F	±1°F	High/Low	AAA	¾"	—	Traceable	4727	**6KEA1**
	-58° to 158°F	-50° to 70°C	0.1°F	±2°F	High/Low	AAA	1½"	Large Digits, 1.5"	Traceable	4148	**6KEA5**
	-58° to 158°F	—	1°F	—	No	G13	½"	—	Traceable	4120	**3KGL2**
	-58° to 158°F	-50° to 70°C	1°F	±2°F	High/Low	AA	½"		Traceable	4048	**6KDZ8**
	-40° to 176°F	-40° to 80°C	0.1°F	±3°F	No	AAA	⅜"	Time and Date of Min/Max Memory	Traceable	4105	**6KEA2**
	—	-50° to 70°C	1°F	±2°F	No	G13	½"	—	Traceable	4121	**3KGL4**
(2) Bullet Probes	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6433	**33HP67**
	-58° to 158°F	-50° to 70°C	0.01°F	±0.6°F	High/Low	AA	½"	High Accuracy with Time/Date of Min/Max Memory	Traceable	4240	**6KEC0**
	-58° to 158°F	-50° to 70°C	0.1°F	±2°F	High/Low	AAA	½"	Dual Probe Time and Date of Min/Max Memory	Traceable	4307	**6KED2**
Bottle, Bullet	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6434	**33HP68**
Vaccine Bottle	-58° to 158°F	-50° to 70°C	0.1°F	±1°F	High/Low	AAA	¾"	—	Traceable	4627	**6KEA0**
	-58° to 158°F	-50° to 70°C	0.1°F	±2°F	High/Low	AAA	1½"	Large Digits, 1.5"	Traceable	4648	**6KEA7**
	-58° to 158°F	-50° to 70°C	1°F	±2°F	High/Low	AA	½"	—	Traceable	4527	**6KDZ9**
	-40° to 176°F	-40° to 80°C	0.1°F	±3°F	No	AAA	⅜"	Time and Date of Min/Max Memory	Traceable	4605	**6KEA4**
(2) Stainless Steel	-58° to 158°F	-50° to 70°C	0.01°F	±0.5°F	High/Low	AAA	½"	Alarm Tracking, Data Retrieval via USB Port.	Traceable	6436	**33HP70**
Immersion	-25° to 392°F	-31° to 200°C	0.1°F	±2°F	High/Low	AAA	—	IP 44 Waterproof Rated	Cooper Atkins	DTT361-01	**52JJ12**


No. 6DKD6

No. 24Y992

Refrigerator/Freezer Thermometers

TAYLOR Cooper ATKINS® SUPPLIER DIVERSITY®

TAYLOR

HACCP (Hazard Analysis and Critical Control Points) color-coded for food service applications.

COOPER ATKINS®

Designed to hang or stand within the food zone inside cold storage cabinets. Min./Max. with reset. 1⅞" x ¾" LCD. ABS plastic thermometers and frames are splash-resistant and antimicrobial; frame is removable for cleaning.

Item	Temp. Range	Std.	Brand	Item No.
Analog Display				
Mechanical Food Service Thermometer	-20° to 80°F	NSF	Taylor	**6DKD6**
LCD Display				
Digital Food Service Thermometer	-22° to 122°F	CE, NSF, RoHs, WEEE	Cooper Atkins	**24Y992**
Refrigerator/Freezer Thermometer	-25° to 180°F	—	Cooper Atkins	**21XL18**


No. 1EPF3

No. 5XL18

No. 3LPF1

Digital Panel-Mount Thermometers

GRAINGER APPROVED GENERAL® TAYLOR

- LCD readout
- Batteries included

FLANGE-MOUNT

Flanged housing with 39" sensor lead.

SURFACE/FLUSH-MOUNT

Waterproof unit features 10-ft. lead and immersible air/liquid probe.

FOLDAWAY STAND AND SUCTION CUP

Inside/outside unit with 10-ft. cord, detachable waterproof probe, suction cup, and hook-and-loop strip.

Mounting	Temp. Range (F)	Battery Type	Brand	Mfr. Model	Item No.
Front Flange	-40° to 120°F	AG5 - 1.5V Battery	GA	1EPF3	**1EPF3**
Back Flange	-40° to 120°F	1.5V Battery	GA	1EPF4	**1EPF4**
Surface or Flush	-40° to 300°F	AAA Battery	Taylor	994010	**5XL18**
Foldaway Stand and Suction Cup	-58° to 158°F	CR2032 Battery	General	AQ150	**3LPF1**

Digital and Analog Infrared/Probe Food Service Thermometers

- Spectral response (µM): 5 to 14
- Emissivity: adjustable, 0.10 to 1.00
- Batteries included

No. 4KY67—Instantly measures surface and internal temperatures. Lock function for long-term monitoring, Max./Min., and low-battery indicator.

No. 1VEP5—HACCP zone indication system quickly verifies whether temperatures are in safe or unsafe regions. LED spot illumination. IP54 protection facilitates cleaning.

No. 24Y994—HACCP LED indicators, Auto-Off after 20 sec., and gun-style design. Includes platinum RTD probe and case.

No. 30ZU98—NSF Certified. Dishwasher safe. Ultrasonically welded housing (waterproof IP65) with antimicrobial additive. °F/°C. Foldable with built-in magnetized strip.

No. 21XL17—Provides software, hardware, and PC interface to collect and report product temperature records for HACCP programs. Handheld instrument stores up to 3000 temperature readings/1500 checklist records.

No. 40GT03—NSF Certified, waterproof indicator measures temperatures in liquids, pastes, and semisolid foods. Min./Max., data hold, low-battery indication, and programmable audible/visual High/Low alarms.



Temp. Range	Accuracy	Stem Length	Includes	Brand	Mfr. Model	Item No.
Infrared Thermometers with Probe						
Infrared -27° to 428°F, Probe -67° to 626°F			1" @ 1"	IR ±4°F or ±2%, Probe ±2°F or ±1%	Cooper Atkins	480	**4KY67**
Infrared -67° to 482°F, Probe -67° to 626°F			1" @ 2.5"	IR ±4°F or ±2%, Probe ±1.4°F or ±1%	Westward	—	**1VEP5**
Infrared -40° to 536°F, Probe -40° to 392°F			1" @ 3"	2°F/1°C	Cooper Atkins	481-0-8	**24Y994**
Probe Thermometer							
-40° to 482°F	±1 °F, ±0.5 °C	2 13/32"	CR2032 Battery and Instructions		Extech	TM55	**30ZU98**
-100° to 500°F	±1 °F	3 1/2"	Handheld Thermocouple instrument, Microneedle Probe, Battery Charger, USB Cable, Software CD-Rom		Cooper Atkins	93710	**21XL17**
-40° to 392°F	±1.8°F, ±1°C	4 7/64"	Magnetic Back, Foot Stand, Temperature Sensor, Battery		Extech	TM26	**40GT03**



EXTECH INSTRUMENTS TAYLOR TRACEABLE®

Digital Thermometers and Hygrothermometers

Digital Temperature and Humidity Monitors help you maintain proper temperature and humidity levels.

Acurite—Large LCD display shows simultaneous indoor temperature and humidity levels. A magnetic backing permits easy mounting, removal, and re-mounting. 24-hr. High/Low memory.

Extech—Include a built-in stand and batteries. No. 21EN92 measures temperature only and features min/max. alarms for use in sensitive environments. It has a magnetic backing for simple wall-mounting, removal, and re-mounting.

Taylor—Include battery. Celcius/Farenheit switchable.

Traceable—All measure temperature only and include NIST calibration certificate.















Temp. Range (°C)	Features	Application	Relative Humidity Range	Humidity Accuracy	Digit Size	Display Type	Mounting	Cord Length	Battery Type	Memory	Mfr. Model	Item No.
Acurite												
Digital Thermometer												
—	Magnetic Backing, Humidity Level Icon, 24 hr. High and Low Records	Indoor/Outdoor	—	—	4 5/64"	LCD	Wall or Desk	—	AA	24 hr. High and Low Records	00325A1	**53DP73**
Extech												
Digital Hygrometer												
-10° to 60°	1" Digits on Super Large LCD	Indoor	10 to 99%	±5%	1"	LCD	Wall or Desk	—	(1) AAA	Min/Max	445703	**4PC65**
-10° to 60°	Remote Probe Extends to 18"	Indoor	10 to 99%	±4%	1"	LCD	Wall or Desk	18"	(1) AAA	Min/Max	445715	**5PE76**
-10° to 60°	Remote Probe, Calibration Traceable to NIST	Indoor/Outdoor	10 to 99%	±4%	1"	LCD	Wall or Desk	18"	(1) AAA	Min/Max	445715-NIST	**5PE78** *
-10° to 60°	Audible and Visual Alarm	Indoor	10 to 99%	±4%	1"	LCD	Wall or Desk	18"	(2) AAA	Min/Max	445815	**5PE71**
-10° to 60°	Remote Probe with 35" Cord	Indoor/Outdoor	10 to 99%	±5%	1"	LCD	Wall or Desk	35"	(1) AAA	Min/Max	445713	**5PE75**
-10° to 60°	Audible and Visual Alarm	Indoor	10 to 99%	±4%	—	LCD	Wall or Desk	—	(2) AAA	Min/Max	445814	**3LRV4**
—	Min/Max with Reset, Low Battery Indicator	Indoor	10% to 99%	±5%	—	1" LCD	Wall or Desk	—	LR44	Min/Max	RHM15	**30ZU96**
Digital Hygrometer with Clock												
-10° to 60°	Built-in Stand and Wall Mounting Bracket	Indoor	10 to 85%	±6%	1/2"	LCD	Wall or Desk	—	(1) AAA	Max/Min with reset	445702	**3ZH92**
-5° to 45°	(5) Selectable Languages	Indoor	20 to 90%	±5%	2"	LCD	Wall or Desk	—	(2) AA	Min/Max	445706	**2HPF3**
-5° to 50°	4.3" Digits, Radio Controlled	Indoor	20 to 90%	±6%	4 3/4"	LCD	Wall or Desk	—	(4) AA	—	CTH10	**2HPF5**
Digital Thermometer												
-50° to 70°	Waterproof External Sensor	Indoor/Outdoor	—	—	1"	LCD	Wall or Desk	9 ft. 6"	AAA	Min/Max	401014	**4FB69**
Temperature Indicator												
-40 to 70°F	High/Low Alarms, Min/Max, Data Hold, Low Battery Indicator, Waterproof Housing and Sensor	—	—	—	—	—	Magnetic Back and Footstand	—	CR2032	Min/Max	TM20	**21EN92**
Taylor												
Digital Hygrometer												
-10° to 50°	Indoor Humidity Range 20% to 90%	Indoor	20 to 90%	—	5/8"	LCD	Desk	—	(2) AAA	—	1732	**48TA32**
Digital Thermometer												
-40° to 70°	Min/Max Temperature Readings, Clock	Indoor/Outdoor	—	—	1 39/64"	LCD	Wall or Desk	10 ft.	(2) CR2025	Min/Max	1710	**48TA31**
-29° to 50°	Weatherproof, Front Access Battery Compartment, Protective Cover, Records Previous Min/Max Readings for Six Days, Low Battery Indicator, Dual Probes	Indoor/Outdoor	—	—	3/4"	LCD	Wall	9 ft. 9"	AA	Min/Max	1441E	**3NE56**
Traceable												
Thermistor Thermometer												
-50° to 150°	—	—	—	—	—	Backlit 3 Line LCD	—	—	357	No	4146	**3KTW9** *
-50° to 250°	Magnetic Back for Placement On A Metal Surface	—	—	—	—	LCD	—	—	LR44	—	4152	**3KGN1** *
-50° to 300°	—	—	—	—	—	LCD	—	—	357	Min/Max	4430	**3KGR6** *
Thermometer												
-2° to 2°	Extreme Accuracy At 0°C, Min/Max Memory Storage, Alarm	—	—	—	—	LCD	—	—	AA	—	4241	**6KEC1** *
-2° to 39°	Extreme Accuracy At 0°, 25° and 37°C, Min/Max Memory Storage, Alarm	—	—	—	—	LCD	—	—	AA	—	4244	**6KEC4** *
23° to 27°	Extreme Accuracy At 25°C, Min/Max Memory Storage, Alarm	—	—	—	—	LCD	—	—	AA	—	4242	**6KEC2** *
35° to 39°	Extreme Accuracy At 37°C, Min/Max Memory Storage, Alarm	—	—	—	—	LCD	—	—	AA	—	4243	**6KEC3** *

NIST Certified.



No. 1NFW6



No. 1NFX9

GA GRAINGER APPROVED

Analog Dial Bimetal Thermometers

- Accuracy: ±1%
- ¼"-dia. stainless steel stem
- Glass display window
- External calibration adjustment

Stainless steel housing features silicone vibration dampening for accuracy and superior time response. Airtight hermetic seal prevents icing or fogging.

Dial Size	2"	3"	5"	3"	5"	3"	5"
Connec. Size	¼" NPT	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT
Connection	Back	Back	Back	Bottom	Bottom	Multiangle	Multiangle
Dial Face	°F	°F/°C	°F/°C	°F/°C	°F/°C	°F/°C	°F/°C
Temp. Range (F)	**Item No.**	**Item No.**	**Item No.**	**Item No.**	**Item No.**	**Item No.**	**Item No.**
2½" Stem Length							
0° to 250°	1NFW6	1NFY4	1NGE2	1NFZ4	1NGD1	1NGA2	1NGC3
50° to 550°	1NFW7	1NFY5	1NGE3	1NFZ5	—	1NGA3	1NGC4
4" Stem Length							
-20° to 120°	1NFW8	1NFY8	1NGE4	1NFZ8	1NGD2	1NGA4	1NGB9
0° to 250°	1NFW9	1NFY6	1NGE5	1NFZ6	1NGD3	1NGA5	1NGB7
50° to 550°	1NFX1	1NFY7	1NGE6	1NFZ7	1NGD4	1NGA6	1NGB8
6" Stem Length							
-20° to 120°	1NFX2	1NFY1	1NGE7	1NGB2	—	1NGA7	1NGC8
0° to 250°	1NFX3	1NFY9	1NGE8	1NGB3	1NGD5	1NGA8	1NGC1
50° to 550°	1NFX4	1NFZ1	1NGE9	—	1NGD6	1NGA9	1NGC2
9" Stem Length							
-20° to 120°	1NFX5	1NFY2	1NGF1	—	—	—	1NGC9
0° to 250°	1NFX6	1NFZ2	1NGF2	1NGB5	1NGD7	1NGB1	1NGF4
50° to 550°	1NFX7	1NFZ3	1NGF3	1NGB6	—	—	1NGF5
12" Stem Length							
-20° to 120°	—	1NFX8	1NGD8	—	—	—	1NGC5
0° to 250°	—	1NFX9	1NGD9	—	—	1NFZ9	1NGC6
50° to 550°	—	1NFY3	1NGE1	—	—	1NGA1	1NGC7



Back Flange Surface Mount
No. G2664



Flush Mount
No. G2668

GA GRAINGER APPROVED

Remote Display Vapor-Actuated Thermometers

- Accuracy: ±1%
- 7/16"-dia. sensor
- ½" NPT connection

Vapor-actuated instruments provide excellent response. Analog temperature scale. Tubing is copper with bronze-braided armor.

Dial Size	▶CHOOSE: Temp. Range	Mounting	Item No.
60" Tub Length			
Stainless Steel			
3½"	0° to 100°, 0° to 160°, 30° to 180°, 30° to 240°, 100° to 350°	Bracket	G2658
	0° to 100°, 0° to 160°, 30° to 180°, 30° to 240°, 100° to 350°	Front Flanged with Back Outlet	G2660
	0° to 160°, 30° to 180°, 30° to 240°, 100° to 350°	U-Clamp with Back Outlet	G2662
	0° to 100°, 0° to 160°, 30° to 180°, 30° to 240°	Surface with Bottom Outlet	G2664
	30° to 240°, 30° to 180°, 0° to 100°, 0° to 160°	Surface with Back Outlet	G2666
Cast Aluminum			
4½"	0° to 100°, 30° to 180°, 30° to 240°, 30° to 300°, 200° to 450°	Flush Mount with Hinged Ring	G2668
	0° to 100°, 30° to 240°, 30° to 300°	Surface with Bottom Outlet	G2670
6"	0° to 100°, 30° to 180°, 30° to 240°, 30° to 300°, 200° to 450°	Surface with Bottom Outlet	G2672
120" Tub Length			
Stainless Steel			
3½"	0° to 160°, 30° to 180°, 30° to 240°, 100° to 350°	Bracket	G2659
	0° to 100°, 0° to 160°, 30° to 180°, 100° to 350°	Front Flanged with Back Outlet	G2661
	0° to 100°, 0° to 160°, 30° to 180°, 30° to 240°, 100° to 350°	U-Clamp with Back Outlet	G2663
	30° to 180°, 30° to 240°, 100° to 350°	Surface with Bottom Outlet	G2665
	0° to 160°, 100° to 350°, 30° to 180°, 0° to 100°	Surface with Back Outlet	G2667
Cast Aluminum			
4½"	30° to 240°, 30° to 300°	Flush Mount with Hinged Ring	G2669
	0° to 100°, 30° to 180°, 30° to 240°, 30° to 300°	Surface with Bottom Outlet	G2671
6"	30° to 180°, 30° to 300°	Surface with Bottom Outlet	G2673
8½"	200° to 450°	Surface with Bottom Outlet	G2675

GA GRAINGER APPROVED

Vapor Tension Thermometers with Air/Liquid Remote Probe

- Accuracy: ±2%

Stainless steel housing with polycarbonate lens. Nickel-tin-plated immersion probe.



Strap Mount
No. D3809

Mounting	▶CHOOSE: Dial Size	▶CHOOSE: Temp. Range	Item No.
Front Flanged, 48" Line Length	2", 2½"	-40° to 60°, -40° to 120°, 40° to 240°F	D3808
Front Flanged, 240" Line Length	2"	-40° to 60°F	1EPE7
Strap, 48" Line Length	2"	-40° to 60°, 40° to 240°F	D3809

WINIERS Since 1963 We're There. LEAD FREE

Lead-Free Water Test Gauges

- Lead-free brass wetted parts
- Include ¾" female swivel hose connection
- 3-2-3% accuracy
- 2½" dial



No. 20JN40

Range	Item No.
Maximum Reading Pointer Gauges	
0 to 160 psi	20JN40
0 to 300 psi	20JN41
Home Water Pressure Testing Gauges	
0 to 160 psi	20JN42
0 to 300 psi	20JN43

Dwyer®



Gripping Handle
No. 2KLG2

Long-Reach Bimetal Thermometers

- Temp. range: 0° to 200°F
- Accuracy: ±1%
- ½" NPT back connection
- ¼"-dia. stainless steel stem
- 3" dial with glass window
- BTLRN series

Extra-long stems reach remote areas. Corrosion-resistant stainless steel cases are hermetically sealed to prevent fogging or icing. Gripping Handle, sold separately, provides an easier grip.



No. 1UZU6

Stem Length	Item No.
12"	1UZU6
18"	1UZU7
24"	1UZU8
36"	1UZU9
48"	1UZV1
60"	1UZV2
72"	1UZV3
Accessories	
Gripping Handle	2KLG2

Dwyer®

Bimetal Digital Adjustable Angle Thermometers

- Accuracy: ±1%
- °F/°C selectable LCD
- Connection size: ½" NPT
- Acrylic display window
- Temp. range: -58° to 302°F
- Solar powered (35 lux min.)

Hermetically sealed 3" window prevents icing or fogging. Stainless steel housing.



No. 1UYL2

Stem Length	Item No.
2½"	1UYL2
4"	1UYL4
6"	1UYL6
9"	1UYL8
12"	1UYN1
15"	1UYN3
18"	1UYN5
24"	1UYN7



No. 20JN57



No. 20JN88

WINTERS
We're There.

Lead-Free Thermometers and Thermowells

Scale is painted white with black markings. Include separable lead-free thermowell.

Temp. Range (F)	Connec. Size	Case Material	Accuracy	Special Features	Mfr. Model	Item No.
Organic Fluid Thermometers						
Angle						
40° to 280°	½" NPT	Steel	1%	8" Scale, Easy To Install, Separable Thermowell	TSW173LF.	**20JN87**
Straight						
40° to 280°	½" NPT	Steel	1%	8" Scale, Easy To Install, Separable Thermowell	TSW172LF.	**20JN86**
Vari-Angle						
-40° to 110°	¾" NPT	Aluminum	±1%	9 Scale, Fully Adjustable, Graphite Filled Bulb Chamber, Highly Accurate, Impact Resistant Case	TIM101ALF.	**20JN71**
	¾" NPT	Valox®	±1%		TIM101LF.	**20JN72**
0° to 120°	¾" NPT	Aluminum	±1%		TIM102-6ALF.	**20JN73**
	¾" NPT	Valox®	±1%		TIM102-6LF.	**20JN74**
	¾" NPT	Aluminum	±1%		TIM102ALF.	**20JN75**
	¾" NPT	Valox®	±1%		TIM102LF.	**20JN76**
0° to 160°	¾" NPT	Aluminum	±1%		TIM103ALF.	**20JN77**
	¾" NPT	Valox®	±1%		TIM103LF.	**20JN78**
30° to 180°	¾" NPT	Aluminum	±1%		TIM104ALF.	**20JN79**
	¾" NPT	Valox®	±1%		TIM104LF.	**20JN80**
30° to 240°	¾" NPT	Aluminum	±1%		TIM100-6ALF.	**20JN67**
	¾" NPT	Valox®	±1%		TIM100-6LF.	**20JN68**
	¾" NPT	Aluminum	±1%		TIM100ALF.	**20JN69**
	¾" NPT	Valox®	±1%		TIM100LF.	**20JN70**
30° to 300°	¾" NPT	Aluminum	±1%		TIM105-6ALF.	**20JN81**
	¾" NPT	Aluminum	±1%		TIM105ALF.	**20JN82**
	¾" NPT	Valox®	±1%		TIM105LF.	**20JN83**
Red Liquid-in Glass Thermometers						
Angle						
-40° to 110°	½" NPT	ABS	2%	Impact Resistant ABS Case (5"), Max Operating Pressure 710psi	TAS140LF.	**20JN61**
20° to 180°	½" NPT	ABS	2%		TAS141LF.	**20JN62**
30°F to 240°	½" NPT	ABS	2%		TAS150LF.	**20JN64**
30° to 300°	½" NPT	ABS	2%		TAS143LF.	**20JN63**
Straight						
-40° to 110°	½" NPT	ABS	2%	Impact Resistant ABS Case (5"), Max Operating Pressure 710psi	TAS130LF.	**20JN57**
20° to 180°	½" NPT	ABS	2%		TAS131LF.	**20JN58**
30° to 240°	½" NPT	ABS	2%		TAS132LF.	**20JN59**
30° to 300°	½" NPT	ABS	2%		TAS134LF.	**20JN60**

Temp. Range (F)	Dial Size	Connec. Size	Connec. Location	Case Material	Accuracy	Stem Length	Mfr. Model	Item No.
Dial Type Thermometers								
30° to 250°	2"	½"	Center Back	Aluminum	1%	1.6"	TSW174-2LF.	**20JN88**
30° to 250°	2.5"	½"	Center Back	Aluminum	1%	1.6"	TSW174LF.	**20JN89**
30° to 250°	2.5"	¾"	Center Back	Aluminum	1%	2"	TSW174-SWLF.	**20JN90**

Process Connec.	Shank Dia.	Special Features	Mfr. Model	Item No.
Industrial Thermowells				
Hot Water Lines, Boilers and Hydronic Heating				
½" NPT	0.35"	½" NPT (For Winters TSW174)	TSW65LF	**20JN93**
	0.35"	½" NPT (For Winters TSW174-SW)	TSW85LF	**20JN94**
	0.35"	½" NPT (For Winters TSW174-2)	TSW45LF	**20JN92**
	0.55"	½" NPT(For Winters TSW172 and TSW173)	TSW25LF	**20JN91**
Hot Water Lines, Boilers, Heating, Ventilation and Air Conditioning				
½" NPT	0.5"	Winters TAS-LF Thermometers, ½" NPT Connection	TAS62LF	**20JN65**
¾" NPT	0.5"	Winters TAS-LF Thermometers, ¾" NPT Connection	TAS64LF	**20JN66**

GA GRAINGER APPROVED

Fixed-Connection Thermometers

- Accuracy: ±1%
- Connection size: ½" NPT
- 0.5"-dia. stem
- Glass display window
- Thermowell included

Gray Valox® housing with black-on-white aluminum scale. Nontoxic blue liquid fill.

Temp. Range (F)	Scale Divisions	Insertion Length	Stem Length	Lower Item No.	Back Item No.
-40° to 110°F	2°	1⅜"	2"	**4PRT7**	**4PRU4**
20° to 120°F	2°	1⅜"	2"	**4PRT8**	**4PRU5**
20° to 180°F	2°	1⅜"	2"	**4PRT9**	**4PRU6**
30° to 240°F	2°	1⅜"	2"	**4PRU1**	**4PRU7**
50° to 400°F	5°	1⅜"	2"	—	**4PRU9**



No. 4PRU1



No. 4PRU4

GA GRAINGER APPROVED

Adjustable-Angle Thermometers

- Accuracy: ±1%
- Connection size: 1¼-18" lower
- 0.433"-dia. stem
- Glass display window

Black aluminum housing with black-on-white aluminum scale. Nontoxic blue liquid fill.

Temp. Range (F)	Scale Divisions	2½" Insertion Length, 3½" Stem Length Item No.	5" Insertion Length, 6" Stem Length Item No.
0° to 120°F	1°	**4LZN7**	**4LZP6**
0° to 160°F	2°	**4LZN8**	**4LZP7**
30° to 180°F	2°	**4LZN9**	**4LZP8**
30° to 240°F	2°	**4LZP1**	**4PRT3**
30° to 300°F	5°	**4LZP2**	**4PRT4**
-40° to 110°F	2°	**4LZN6**	**4LZP5**
50° to 400°F	5°	**4LZP3**	**4PRT5**
50° to 550°F	5°	**4LZP4**	**4PRT6**



No. 4LZN7

TRERICE

WEISS INSTRUMENTS

GA GRAINGER APPROVED

Digital Solar Powered Thermometer

- Accuracy: ±1°
- Connection size: 1¼-18" straight
- Plastic display window
- °F/°C selectable LCD
- Light-powered (10 lux min.)



No. 2AFJ9

Temp. Range (F)	Special Features	Brand	2½" Insertion Length, 3½" Stem Length Item No.	5" Insertion Length, 6" Stem Length Item No.
Cast Aluminum				
-40° to 300°F	Min./Max.	Trerice	**2AFJ9**	**2AFK1**
ABS				
-50° to 300°F	4 to 20mA Output	Weiss	**2CYR5**	**2CYR6**
-50° to 300°F	Stem Assemblies	Weiss	**2CYL7**	**2CYL8**
-50° to 300°F	Instant Recall Button	GA	**6CMZ2**	—



No. 20JN84



Standard



Lagging

Thermowells

GA GRAINGER APPROVED

Allow thermometers to be removed without shutting down or draining the system. 1¼-18 UNF lead-free brass.

BIMETAL CONNECTION
- Bore dia.: 0.26"
- Shank dia.: 0.44" Nos. 24C461, 24C469, and 24C512, all others 0.5"

DIAL CONNECTION
- Bore dia.: 0.447"
- Shank dia.: 0.62"

INDUSTRIAL CONNECTION
- Bore dia: 0.44"
- Shank dia.: 0.62"

		STANDARD						LAGGING					
		316 Stainless Steel		Brass		304 Stainless Steel		316 Stainless Steel			Brass		
Stem Length	Process Connec.	Insertion Length	Item No.	Insertion Length	Item No.	Insertion Length	Item No.	Insertion Length	Neck Extension	Item No.	Insertion Length	Neck Extension	Item No.
GA, Bimetal Connection, ½ NPSM													
2.5"	¾" NPT	1.75"	**24C461**	1.75"	**24C469**	—	1.75"	**24C512**	—	—	—	—	—	—	—
4"	¾" NPT	2½"	**24C462**	2½"	**24C470**	—	2½"	**24C513**	1.9"	0.6"	**24C492**	—	—	—
6"	¾" NPT	4.5"	**24C463**	4.5"	**24C471**	—	4.5"	**24C514**	—	—	—	—	—	—
9"	¾" NPT	7.5"	**24C464**	—	—	—	7.5"	**24C515**	4.5"	3"	**24C494**	4.5"	3"	**24C502**
12"	¾" NPT	10.5"	**24C465**	10.5"	**24C473**	—	10.5"	**24C516**	7.5"	3"	**24C495**	—	—	—
15"	¾" NPT	13.5"	**24C466**	13.5"	**24C474**	—	13.5"	**24C517**	—	—	—	—	—	—
18"	¾" NPT	16.5"	**24C467**	16.5"	**24C475**	—	16.5"	**24C518**	—	—	—	13.5"	3"	**24C505**
GA, Dial Connection, ⅝-18 UNF													
3"	½" NPT	2.13"	**24C479**	2.13"	**24C480**	—	—	—	—	—	—	—	—	—
GA, Industrial Connection, 1¼-18 Straight													
3.34"	¾" NPT	—	—	—	—	—	2½"	**24C507**	—	—	—	—	—	—
3.5"	¾" NPT	2½"	**24C450**	2½"	**24C455**	—	—	—	—	—	—	—	—	—
3.5"	¾" NPT	—	—	—	—	—	—	—	—	—	—	1.5"	1"	**24C486**
6"	¾" NPT	5"	**24C451**	5"	**24C456**	—	5"	**24C508**	2½"	2.5"	**24C482**	2½"	2.5"	**24C487**
8"	¾" NPT	7"	**24C452**	—	—	—	—	—	4.5"	2.5"	**24C483**	—	—	—
12"	1" NPT	—	—	—	—	—	—	—	8"	3"	**24C484**	—	—	—
18"	1" NPT	17"	**24C454**	—	—	—	17"	**24C511**	14"	3"	**24C485**	—	—	—
Winters 1 ¼"-18 UNF													
3.5"	¾" NPT	—	—	2½"	**20JN84**	*	—	—	—	—	—	—	—	—
6"	¾" NPT	—	—	5"	**20JN85**	*	—	—	—	—	—	—	—	—

** Lead-free brass.*

Stem Length	Process Connec.	Insertion Length	STANDARD Carbon Steel Item No.
GA, Bimetal Connection, ½ NPSM			
4"	¾" NPT	2½"	**24C477**
6"	¾" NPT	4.5"	**24C478**

Description	Item No.
Accessory	
TRERICE, Thermal Paste	**2EHE5**



Temperature Switch

Thermistor-Input Devices

LOVE

- IP64 front panel
- Cutout: 2.8" x 1.14"
- Accuracy: ±1% full scale
- Red, 3-digit LED display
- Thermistor probes sold separately; on Grainger.com®, search for "thermistor probes."

DIGITAL PANEL METERS

Process and Temperature—Feature adjustable span/zero.
- Resolution: 1°

TEMPERATURE SWITCHES

On/Off, Compressor Defrost—Features include ½" digits, set point adjustments, static defrost timing, compressor mean time, hysteresis, and ambient probe adjustment. Each includes gasket and mounting clips.
- Resolution: 1°
- Contact rating: 16A at 250V resistive, 5A inductive

On/Off, Dual-Stage—Designed to accept 2 inputs with independent relay outputs for dual-stage temperature control. Equipped with 34 programmable parameters to customize control functions. Access to all but set point can be secured by password. Each includes 1 temperature probe, gasket, and mounting clips.
- Resolution: 0.1° (<100°); 1° (≥100°)
- Contact rating: 1 SPDT 16A at 250V resistive; 1 SPDT 8A at 250V resistive

Input Range	Relays	POWER REQUIRED 24VAC/DC Item No.	110VAC Item No.	230VAC Item No.
Temperature Switch				
On/Off, Compressor Defrost				
-50° to 150°C	SPDT	**2HMF8**	**2HMF4**	**2HMF6**
-58° to 302°F	SPDT	**2HMF7**	**2HMF3**	**2HMF5**
On/Off, Dual Input, Dual Output				
-50° to 150°C	SPDT and SPDT	—	**2HMJ2**	**2HMJ3**
-58° to 302°F	SPDT and SPDT	—	—	**2HMJ1**
-58° to 302°F	SPST and SPST	—	**2HMH9**	—
Digital Panel Meter				
Process				
4 to 20mA DC	—	**2HME7**	**2HME5**	**2HME6**
Temperature, Positive Temperature Coefficient Thermistor				
-50° to 150°C	—	—	**2HME9**	**2HMF2**
-58° to 302°F	—	—	**2HME8**	**2HMF1**

LOVE

Thermocouple Limit Controls

- IP64 front panel
- Resolution: 1°; Accuracy: ±1% full scale
- Contact rating: SPDT, 15A at 250V resistive
- J/K thermocouples sold separately; see pages 230 and 596

Instruments provide audible alarm status and automatic and manual reset. Red, 3-digit LED display with ½" digits. 110VAC power required. Each includes panel-mounting clip and gasket.



No. 2HMH3

Temp. Range	Item No.
FM Approved Limit Control	
32 to 999°F	**2HMH3**
0 to 700°C	**2HMH4**
Two Alarms	
32° to 999°F	**20VE03**
J Thermocouple 0° to 700° degress C ,K or S Thermocouple 0° to 999° degress C	**20VE04**

GA GRAINGER APPROVED



No. 13E395

Solar Power Panel Thermometers

- Accuracy: ±1.8°F from -4° to 86°F; out of/above range ±3.6°F
- Temp. range: -58° to 158°F
- 1.25" sensor
- Surface mount; gasket included
- 1" x 4" dial, 3-digit LCD, polycarbonate lens

Designed to monitor the temperature of refrigerators, freezers, and retail cases. Solar powered with AAA battery backup (batteries sold separately).

Line Length	Item No.
Black ABS	
5 ft.	**13E395**
24"	**13E397**
36"	**13E396**
White ABS	
5 ft.	**13E398**

WEISS INSTRUMENTS

Switch Plate Digital Thermometers

- 3-digit LED
- Stainless steel single-gang plate
- Accuracy: 1%

Include 9V battery backup wire assembly. NSF Certified. UL Listed.

Item	Temp. Range	Power Source	Mfr. Model	Item No.
Switch Plate Thermometer	-40° to 230°F	12VAC/DC	24DT-S0F0	**2HXZ1**
	-40° to 230°F	110VAC	24DT-S4F0	**2HXZ2**
	-40° to 230°F	110VAC	24DT-L4F0	**2HXZ3**



No. 2HXZ1



No. 2HXZ3



No. 3LZC5



No. 5GCD1



No. 1LYR5



No. 9FZ67



No. 3KGN3



No. 2LTC6

Single-Input Thermocouple Thermometers

Cooper-Atkins®—Durable mini-type probe instruments with IPX7 waterproof housing. Feature Hold and Auto-Off with disable. Resolution: 0.1° or 1°.

Nos. 3TPP5 and 3LZA2 accept a wide variety of probes.

Nos. 3LZA6 and 3LZC5 include MicroNeedle Wrap & Stow™ probe.

Extech®—Feature selectable °F/°C, Hold, Max./Min./Avg., Auto-Off, and offset key used for zero function to make relative measurements. Resolution: 0.1° or 1°.

Nos. 5GCD1 and 5GCD2 display readouts in °F, °C, or Kelvin. Readings capture a relative time stamp.

Nos. 1LYR5 and 1LYR6 store and recall up to 150 readings. Each includes built-in stand and holster.

Test Products International—Waterproof thermometer in an industrial case. Data logging capability. Features °F/°C selectable, Min./Max., Hold, and Auto-Off. Resolution: 0.1° or 1°. Probes sold separately on this page.

Traceable®—Water-resistant instrument is fast and easy to use. Recalls min. and max. temp. readings, updates display twice a second. Features Hold, Hi/Lo alarm, and count-up timer alarm. Resolution: 0.1° or 1°.

Westward®—Splash-resistant instrument features selectable °F/°C, 15-sec. Auto-Hold, and Auto-Off. Resolution: 0.1°F/C.

Thermocouple Type	Probe Connector	Temp. Range (F)	Accuracy	Display	Battery Type	Calibration Certificate	Mfr. Model	Item No.
Cooper Atkins								
Type K	Mini-Type	-100° to 999°	±0.5 °F	4 Digit LCD	AAA	NIST	35200-K	**3TPP5**
Type K	Mini-Type	-100° to 999°	0.5°F Over Entire Range At Ambient Range of 68° to 86°F	Backlit 3 Line LCD	(3) AAA	—	94003-K	**3LZA2**
Type K	Permanent	-100° to 500°	±0.9 °F and ±0.5 °C	Backlit 3 Line LCD	AAA	NIST	35232	**3LZA6**
Type K	Permanent	-100° to 500°	±0.9 °F and ±0.5 °C	Backlit 3 Line LCD	AAA	NIST	35240	**3LZC5**
Extech								
Type J, Type K	Mini-Type	Type K -328° to 2501°, Type J -346° to 2012°	±0.15% rdg + 1 °C	Backlit 3 Line LCD	9V	—	TM100	**5GCD1**
Type J, Type K	Mini-Type	Type K -328° to 2501°, Type J -346° to 2012°	±0.15% rdg + 1 °C	Backlit 3 Line LCD	(1) 9 V	NIST	TM100	**5GCD2**
Type K	Mini-Type	-58° to 1999°	0.3% of Reading	Backlit 3 Line LCD	(6) AAA	—	EA11A	**1LYR5**
Type K	Mini-Type	-58° to 1999°	0.3% of Reading	Backlit 3 Line LCD	(6) AAA	NIST	EA11A	**1LYR6**
Test Products Intl.								
Type K, Type T	Lumberg	Type K -328° to 1112°, Type T -328° to 752°	±1 °F	—	—	—	367D	**9FZ67**
Traceable								
Type K	Mini-Type	-328° to 2498°	±1 °C	Backlit 3 Line LCD	(1) AAA	NIST	4015	**3KGN3**
Westward								
Type K	Mini-Type	-83.2° to1999°	±1%	LCD	—	—	—	**2LTC6**

Item	Temp. Range	Brand	Mfr. Model	Item No.
Accessories				
Temperature Probe	-58° to 500°F	Test Products Intl.	FK21L	**8MA07**
Temperature Penetration Probe	-58° to 500°F	Test Products Intl.	FK22L	**8P452**


No. 6NZG9


No. 1ZKY2


No. 3WU66


No. 46N347


No. 4PC60


No. 9TXC5

AMPROBE EXTECH INSTRUMENTS Milwaukee UEI TEST INSTRUMENTS

Dual-Input Thermocouple Thermometers

Instruments accept probes with miniconnectors.

Amprobe—No. 6NZG9 offers multilogging capabilities plus USB computer download feature. Includes built-in memory, easy data recall, and thermocouple offset adjustment. Resolution: 0.1° or 1°F/C.

Extech®—Nos. 3WU66 and 6RGL2 log up to 8800 data points. Resolution: 0.1°F.

Nos. 4PC60 and 6RGK5 feature elapsed time and programmable Hi/Lo audible alarms. °F/°C selectable. Resolution: 0.2°F.

Nos. 1ZKY2 and 1ZKY4 simultaneously show two parameters and elapsed time. °F/°C/Kelvin selectable. Resolution: 0.1° or 1°F.

Milwaukee®—Monitors Min./Max./Avg./Diff. of 2 temperatures on a high contrast display. Includes magnet strap. Resolution: 0.1°F.

UEI Test Instruments®—Waterproof instrument with 9999 memory position logging using USB software. Features Min./Max./Hold, plus dual-differential T1-T2, T3-T4. Resolution: 0.1°F/C.

Thermocouple Type	Temp. Range (F)	Accuracy	Display	Battery Type	Calibration Certificate	Mfr. Model	Item No.
Amprobe							
Type E, Type J, Type K, Type N, Type R, Type S, Type T	Type K -328° to 2501°, Type J -346° to 2192°, Type T -328° to 752°, Type E -346° to 1832°, Type R 32° to 3212°, Type S 32° to 3212°, Type N -58° to 2372°	0.0005	Backlit 3 Line LCD, 4½ Digit	(4) AAA	No	TMD-56	**6NZG9**
Type J, Type K	Type K -328° to 2498°, Type J -328° to 1922°	±(0.05% 1.4 °F)	Backlit 3 Line LCD	(1) 9 V	No	TMD-10	**4FKP6**
Extech							
Type E, Type J, Type K, Type N, Type R, Type S, Type T	Type K -200° to 1999°, Type J -200° to 1994°, Type T -200° to 752°, Type E -200° to 1598°, Type R 32° to 1999°, Type S 32° to 1999°, Type N -200° to 1999°	Types J, K, E, T, N ±0.05% rdg (1.5 °F/0.75 °C) and Types R, S ±0.05% rdg (4 °F/2 °C)	Backlit 3 Line LCD	(6) AAA	No	EA15	**3WU66**
Type E, Type J, Type K, Type N, Type R, Type S, Type T	Type K -200° to 1999°, Type J -200° to 1994°, Type T -200° to 752°, Type E -200° to 1598°, Type R 32° to 1999°, Type S 32° to 1999°, Type N -200° to 1999°	Types J, K, E, T, N ±0.05% rdg (1.5 °F/0.75 °C) and Types R, S ±0.05% rdg (4 °F/2 °C)	Backlit 2 Line LCD	(6) AAA	NIST	EA15	**6RGL2**
Type J, Type K	Type K -328° to 2498°, Type J -328° to 1922°	±0.05% of Reading	Backlit 3 Line LCD	(1) 9 V	No	421502	**4PC60**
Type J, Type K	Type K -328° to 2498°, Type J -328° to 1922°	±0.05% of Reading	Backlit 3 Line LCD	(1) 9 V	NIST	421502	**6RGK5**
Type K	-200° to 1999°	±0.3% (+2 °F/+1 °C)	Backlit 3 Line LCD	(6) AAA	No	EA10	**1ZKY2**
Type K	-200° to 1999°	±0.3% (+2 °F/+1 °C)	Backlit 3 Line LCD	(6) AAA	NIST	EA10	**1ZKY4**
Milwaukee							
Type K	-328° to 2500°	±0.7 °C	White on Black LCD	AA	No	2270-20	**46N347**
UEI Test Instruments							
Type E, Type J, Type K, Type T	Type J -346° to 2192°, Type K -328° to 2498°	±0.1% +1.0 °F (0.5 °C)	Backlit 3 Line LCD, 4 Digit	(2) AAA	No	DT304	**9TXC5**
Type E, Type J, Type K, Type T	Type J -346° to 2192°, Type K -328° to 2498°, Type T -418° to 752°, Type E -238° to 1832°	Below -148 °F (-100 °C): ±0.2% of Reading (1 °F/0.5 °C) Types J, K, E and ±0.1% of Reading (1 °F/0.5 °C) Type T	Backlit 3 Line LCD	(2) AAA	NIST	DT304-N	**49EL78**



ONSET

HOBO Bluetooth® (BLE) Temperature and Humidity Data Logger

Measures and transmits temperature and relative humidity data wirelessly to mobile devices via Bluetooth Smart technology. Allows you to access data anytime from mobile devices over a 100-ft. range. Suitable for use in a range of building monitoring applications, such as tracking storage temperatures in a food warehouse, keeping tabs on humidity levels in a museum, or investigating occupant comfort complaints in an office building.

Special Features	Sample Point Storage	Mfr. Model	Item No.
Bluetooth Smart Wireless Communications, Data Sharing, RoHS Compliance	84,650	MX1101	**38AX83**


No. 13G715


No. 2LVT3


No. 1TZP9


No. 2TKT9


No. 35VY22


No. 6ETG1

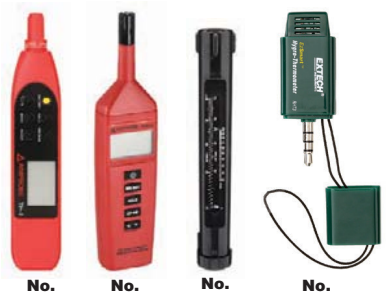

No. 9DLC8


No. 36J804

GA GRAINGER APPROVED | EXTECH INSTRUMENTS | onset HOBO Data Loggers | TRACEABLE® | SUPPLIER DIVERSITY® | DICKSON | GENERAL® | LASCAR electronics | MONARCH INSTRUMENT

Temperature and Humidity Data Loggers

Type	Temp. Range	Relative Humidity Range	Sample Point Storage	Alarm	Special Features	Includes	Compatible With	Mfr. Model	Item No.
GA									
TEMP.&RH	-4° to 158°F	0 to 100%	32 KB	Yes	Professional	Battery	USB Software Kit:13G719 ,Spare Battery:13G718	—	**13G715**
Extech									
3 Axis Accelerometer	—	—	85,764 Peak Acceleration, 210 Freefall Samples	High/Low	Records X, Y, or Z Axis, Manual and Programmable Start Modes	Magnetized/Bolt-on Mounting Base, 3.6V Lithium Battery, Software and Instructions	—	VB300	**5LUU0**
K Thermocouple	-58° to 2372°	—	2000K Data Points Using a 2G SD Memory Card	No	Datalogger Date/Time Stamps and Stores Readings On a SD Card in Excel® Format for Transfer To a PC	(6) AAA Batteries, 2G SD Memory Card, Universal AC Adaptor, (3) Type K Bead Temperature Probes, Mounting Bracket and Instructions		SD200	**5WYV8**
Temperature	-40° to 158°F	—	32 KB	High/Low	Selectable Sample Rate, Instant or Manual Start, LED Status Indicators	3.6 V Lithium Battery, Protective USB Cap, Windows Compatible Software and Instructions		TH10	**2LVT3**
Temperature and Humidity	-40° to 185°F	0 to 100%	16 KB	High/Low	Selectable Sample Rate, Instant or Manual Start, LED Status Indicators	Display and Docking Station	Windows 7, 8, 10	42275	**4FB65**
	-4° to 144°F	0 to 100%	16 KB	High/Low	Selectable Sample Rate, Audible/Visual Alarm	Windows Compatible Software, USB Cable, 110V AC Adaptor, 4 AA Batteries and Instructions		42280	**2TKT9**
	-40° to 185°F	0 to 100%	16 KB	High/Low	—	—	—	42270	**4FB63**
	-40° to 158°F	0 to 100%	32 KB	High/Low	Selectable Sample Rate, Instant or Manual Start, LED Status Indicators	3.6 V Lithium Battery, Protective USB Cap, Windows Compatible Software and Instructions	Windows 7, 8, 10	RHT10	**1TZP9**
Hobo									
Carbon Dioxide, Temperature and Humidity	32° to 122°	1 to 70%	128 KB	User Programmable	Free Android and Apple App/ HOBOware Software/USB, Additional Fee for Calibration Certificate	USB port	HOBOware and HOBOmobile Software and App	MX1102A	**48LX24**
Light On/Off	-4° to 158°F	0 to 95%	128 KB	User Programmable	RoHS Compliance	Battery	HOBOware®, HOBOware® Pro Software Packages	UX90-002	**35YW55**
	-4° to 158°F	0 to 95%	512 KB	User Programmable	RoHS Compliance	—		UX90-002M	**35YW56**
Motor On/Off	-4° to 158°F	0 to 95%	128 KB	User Programmable	RoHS Compliance	—		UX90-004	**35YW57**
Room Occupancy/ Light	-4° to 158°F	0 to 95%, 15 to 85%	128 KB	User Programmable	Measures Room Occupancy Up to 12m, RoHS Compliance	—		UX90-006	**35YW61**
Temperature and Humidity	-4° to 158°F	1 to 95% (non-condensing)	—	User Programmable	User Replaceable RH Sensor	External RH Sensor	HOBOware or HOBOware Pro	UX100-011A	**40PM19**
	-4° to 158°F	15 to 95%	—	User Programmable	User Replaceable RH Sensor	—		UX100-003	**40PM18**
Traceable									
RH\Temp	-20° to 161°	0 to 100%	7680 Data Points	High/Low, Audible and Visual	Duration of Temperature Excursion, User Selectable Quarantine Notification, User-Defined Recording Intervals	Battery, Intructions and Traceable Certificate	Windows XP, Vista, Windows 7	6550	**35VY23**
Temperature	-31° to 122°F	—	7680 Data Points	High/Low Visual	Duration of Temperature Excursion, User Selectable Quarantine Notification, User-Defined Recording Intervals	Battery, Intructions and Traceable Certificate		6540	**35VY22**
	-31° to 122°F	—	7680 Data Points	Yes	LCD Display	Battery	—	6548	**40GR95**
Dickson									
Temperature and Humidity	-4° to 158°F	0 to 95%	32,512 (16,256 per Channel)	No	Start and Stop Button	(1) DL123 Lithium Battery	—	TP425	**6ETG1**
General									
Compact, USB Compatible	-4° to 158°F	0 to 100%	16,300 Pairs of RH and Temperature Readings	High/Low for Ambient Temperature, RH, Absolute Humidity	Data Logs Auto Synchronized to Your PC's Clock	CurveViewer Interfacing/Data Logging Software/Drivers for Windows XP/Vista/7 On Mini-Disc, USB Extension Cable, Battery, User's Manual	Windows XP, Windows 7, Windows Vista	HT20	**15X987**
Lascar									
—	-31 to +176°F	0 to 100%	—	No	Stores Over 16,000 Readings for Both Temperature and Humidity, Logging Rates Between 10 Seconds and 12 Hours, Immediate and Delayed Logging Start	—	—	EL-USB-2	**3KME6**
High Accuracy Humidity and Temperature	-31 to 176°	0 to 100%	—	No	—	Software, Lithium Battery		EL-USB-2-LCD+	**9XUF3**
Increased Accuracy Temperature and Humidity	-31 to 176°	—	—	No	—	Software, Lithium Battery		EL-USB-2+	**9UZR4**
Temperature	-40° to 176°	—	—	High/Low	Status Indication Via Red, Green and Orange LEDs	Lithium Battery, Software CD, Literature		EL-USB-1-LCD	**15Y006**
Temperature, Humidity and Dew Point	-31 to 176°	—	—	No	—	Lithium Battery		EL-USB-2-LCD	**9DLC8**
Temperature and Humidity	-4° to 140°	0 to 100%	500K	Yes	Cloud Available	Software, Cable, Batteries, Probes if Designated	Windows XP, Vista, Windows 7	EL-WIFI-TH	**20PD35**
USB Temperature	-31° to 176°	—	—	No	16,382 Readings, IP67 Rating	3.6V Lithium Battery, Configuration Software	—	EL-USB-1	**3KME5**
Monarch									
RH And Temperature	-4° to 185°	0 to 100%	64,000	Yes	MKT, DEW POINT	—	Windows	6396-0201	**36J807**
	-4° to 185°	0 to 100%	64,000	Yes	MKT, DEW POINT	Software and Cable		RH Temp Track-It B	**36J808**
Temperature	-4° to 185°	—	64,000	Yes	MKT	Software and Cable		Temp Track-It	**36J804**
	-4° to 185°	—	64,000	Yes	MKT	—		6396-0103	**36J805**











AMPROBE BACHARACH EXTECH GENERAL fpi UEi YELLOW JACKET

Sling and Fixed-Probe Temperature/Humidity Meters

AMPROBE

Relative humidity and temperature meters. Nos. 2ATB1 and 4FKP5 measure wet bulb and dew point. Store Min./Max. readings for comparisons.

BACHARACH®

Built-in slide rule calculator correlates wet- and dry-bulb thermometer indications for direct reading of relative humidity. Built-in water reservoir.

EXTECH®

No. 40GR99—Plugs into smart device and includes free app. Plots humidity and temperature. 5 user-settable high/low alarms.

Nos. 1PKZ6 and 1ZPV2—Fast-responding, with high 2% RH accuracy. Features Min./Max. memory and data Hold. Include case and 9V battery. No. 1ZPV2 also measures GPP for quick assessment of air moisture content.

Nos. 4GE36 and 4GE38—Calculate T1-T2. Digital LCD. Feature Min./Max. memory, data Hold, and °F/°C.

No. 2HZB6—Noncontact measurement up to 932°F (500°C) with 30:1 distance-to-target ratio and laser pointer. Backlit LCD. USB port. Includes USB cable, software, Type K bead probe, and case.

No. 4ZG11—Dual-digital display shows simultaneous temperature and RH. Built-in self-calibration.

No. 13G532—Gathers readings at selectable 1- to 3600-sec. intervals and stores them on included 4G SD card. Retains up to 99 readings. K/J input. Features Min./Max., data Hold, Auto-Off disable, and RS-232 interface. Includes probe and case.

GENERAL

No. 20VC93—Measures temperature and RH for days, weeks, or months. Software calculates and logs dew point and wet bulb temperatures, and absolute humidity levels. Selectable °F/°C.

No. 20VC89—Measures temperature, RH, and dew point temperature. Displays RH above ambient or dew point temperature on dual-readout LCD. Selectable °F/°C with Auto-power Off.

TEST PRODUCTS INTL.®

Measures humidity, temperature, dew point, and wet bulb. 39" cable length with slender .45" tip dia. Heavy-duty aluminum case with rubber boot.

UEI TEST INSTRUMENTS®

Displays percentage of relative humidity, temperature, and calculates dew point or wet bulb. Features enthalpy, Min./Max., and data Hold.

YELLOW JACKET

Measures humidity, dry bulb, dew point, and wet bulb. Displays RH and temperature simultaneously. Features °F/°C switchable, data Hold, Auto-power Off.

Item	Relative Humidity Range	Temp. Range	Wet Bulb Temp. Range	Dew Point Range	Battery Type	Mfr. Model	STANARD Item No.	NIST Item No.
Amprobe								
Temperature Humidity Meter	0 to 100%	-4° to 122°F	32°F to 131°F	32°F to 131°F	CR2031	TH-1	**4FKP5**	—
	0 to 100%	-4° to 140°F	—	—	9V	TH-3	**2ATB2**	—
	0 to 100%	-4° to 140°F	-4° to 140°F	-4° to 140°F	9V	THWD-3	**2ATB1**	—
Bacharach								
Sling Psychrometer	10 to 100%	25° to 120°F	25 to 120°F	—	—	12-7012	**6T173**	—
Extech								
Hygro Thermometer	20% to 95%	-4° to 140°F	-4° to 140°F	-4° to 140°F	—	RHT3	**40GR99**	—
	0 to 100%	-22° to 199°F	32° to 176°F	-22° to 199°F	9V	RH490	**1ZPV2**	**1ZPV3**
Hygro Thermometer Psychrometer	0 to 100%	Air -4° to 122°F/ Probe -4° to 158°F	-6.9° to 122°F	-90.4° to 122°F	AAA	RH300	**4GE36**	**6RGN6**
	0 to 100%	Air -4° to 122°F/ Probe -328° to 2498°F	-6.9° to 122°F	-90.4° to 122°F	AAA	RH350	**4GE38**	**6RGN7**
Psychrometer	0 to 100%	-22° to 199°F	32° to 176°F	-22° to 199°F	9V	RH390	**1PKZ6**	**1PKZ7**
Psychrometer with Infrared Thermometer	0 to 100%	Air 14° to 140°F, Probe -148 to 2501°F	-6.88° to 140°F	-90.4° to 140°F	9V	HD500	**2HZB6**	**6RGL8**
Temperature Humidity Meter	5 to 95%	32° to 122°F	-6.9° to 122°F	-13.5° to 120.1°F	(6) AA	SDL500	**13G532**	—
	10 to 90%	14° to 122°F	—	—	CR2032	445580	**4ZG11**	—
	20 to 90%	14° to 122°F	—	—	LR44 Button	44550	**3LYW6**	—
General								
Temperature Humidity Data Logger	0% to 100%	-4° to 158°F	—	—	(½ AA) 1200mAh, Li-Ion	HT08	**20VC93**	—
Temperature Humidity Meter	0% to 99.9%	14° to 122°F	—	—	9V	EP8703	**20VC89**	—
Test Products Intl.								
Hygro Thermometer Psychrometer	0% to 100%	-40° to 122°F	41° to 140°F (5° to 60°C)	-40°C to 176°F (-40°C to 80°C)	9V	597C1	**8YUV7**	—
UEI Test Instruments								
Psychrometer	0.1% to 99.99%	-4° to 122°F	5° to 121.8°F	-4° to 121.8°F	CR2032	DTH35	**35WC99**	—
Yellow Jacket								
Hygro Thermometer Psychrometer	0 to 100%	-4° to 122°F	-69° to 122°F	-90.4° to 122°F	(2) AAA	69008	**29AU23**	—





Temperature, Humidity, and Dew Point Data Loggers

EXTECH Supco

EXTECH®

No. 4CWR7—Records up to 16,000 readings for each parameter. Sample rate from 1 sec. or 24 hr. Windows® 2000, XP, Vista and 7 compatible analysis software.

No. 5WYV9—Dual LCD for RH and temperature readings. Records data with data and time stamps on SD card in Excel® format for transfer to PC.

No. 5WYW0—Displays barometric pressure, temperature, and RH. Date/time stamps and stores readings on an SD card in Excel format for easy transfer.

SUPCO®

No. 1TMR4—Selectable PC-control, delayed start, and push-button start-stop recording options. Stop-when-full and continuous rollover memory settings. °F/°C temperature. Compatible with Windows 98 and higher.

No. 1MTR5—Instantly displays and continually graphs temperature and humidity in real time. Compatible with Windows 98SE, ME, XP, or above.

Item	Temp. Range (F)	Relative Humidity Range	Battery Life	Sample Point Storage	Digital Readout	Mfr. Model	Item No.
Extech							
Data Logger	-40° to 158°	0 to 100%	1 yr.	32 KB	Yes	RHT20	**4CWR7**
Data Logger	32° to 122°	10 to 95%	Typically 1 Month at 60 Second Sampling Rate	2000K Data Points Using a 2G SD Memory Card	Dual Line LCD	SD500	**5WYV9**
Data Logger	32° to 122°	10 to 90%	Greater Than One Month (60 second sample rate)	2M Data Using 2GB SD Card	—	SD700	**5WYW0**
Supco							
Mini Data Logger	-40° to 160°	—	6 yr.	43,344 Bits for Temp Only	—	SL300T	**1TMR4**
Data View Logger	15° to 150°	0 to 90%	2 yr.	43,334 for Temp., 21,672 for Temp., Humidity, and Dew Point	Yes	DVTH	**1TMR5**

Remote Probe Temperature/Humidity Meters

No. 6T444 and 46F194—Calculate differential temperature between probes. Feature backlit display and sealed membrane touch pad. Continuous scan mode stores Min./Max. data for all three zones.

No. 4FKP4—Digital instrument has an extended probe for easy target access. Min./Max. memory, data Hold, dual display, and selectable °F/°C. With wet bulb and dew point.

No. 4FB61—Features infrared (IR) thermometer to provide noncontact surface temperature measurements from -58° to 932°F. Dual display, data Hold, and built-in stand. Includes humidity/temperature probe.

No. 3LYH7—Microprocessor-based design and do-it-yourself calibration to maintain accuracy. Displays temperature and relative humidity. Includes probe and 3-ft. cable that is ideal for hard-to-reach areas.

No. 3LYW2—Unit displays humidity or dew point and has a Hold key to freeze reading for later viewing. Data logger captures readings manually or automatically. Has computer output for data downloading.

No. 30ZY68—Compact design features large dual display of temperature, humidity, or dew point. Uses precision capacitance sensor and has Min./Max. function that will store and recall readings. Auto-power Off function has disable feature and data Hold can freeze readings. Includes probe, battery, and case.





For Use With	Brand	Mfr. Model	Item No.
Humidity Replacement Probe			
Mfr. No. SRH77A	Cooper Atkins	5028G	**3YXZ2**

Relative Humidity Range	Humidity Accuracy	Temp. Range	Temp. Accuracy	Wet Bulb Temp. Range	Calibration Certificate	Brand	Mfr. Model	Item No.
10 to 95%	±2%	-40° to 300°	±0.3°F or ±0.5% Reading, Whichever is Greater/±0.3° F or ±0.5% Reading, Whichever is Greater	0° to 130°F	No	Cooper Atkins	SRH77A	**6T444**
10 to 95%	±2%	-40° to 300°F	±0.3°F or ±0.5% of Reading, Whichever is Greater/±0.2	0° to 130°F	Yes	Cooper Atkins	SRH77A-E-032G	**46F194**
0 to 100%	±3%	14° to 140°F	±1°F/±0.6°C	7.88° to 139.8°F	No	Amprobe	THWD-5	**4FKP4**
10 to 95%	±3.5%	-4° to 140°F	±3°/±2°	—	No	Extech	RH101	**4FB61**
10 to 95%	±2% RH Mid-Range, Otherwise ±4%	0° to 199.9°F	±1°C (0 to 40°C), Otherwise ±2°C	—	NIST	Traceable	4185	**3LYH7**
10 to 95%	±3% RH	32° to 122°F	±1°C	—	NIST	Traceable	4189	**3LYW2**
10% to 95%	±3%	32° to 122°F	±1.5°/±0.8°	—	No	Extech	RH210	**30ZY68**
				—	No	Cooper Atkins	5028G	**3YXZ2**

Thermistor Thermometer/Probe Kits and Pipe Clamp Probe



No. 3T189



No. 4KY56



No. 2T618

POCKET THERMOMETERS

Compact probes sense air or surface temperature. Reading hold. Resolution: 0.1°. Display: 1¾" x ½".

LOW/HIGH ANNUNCIATOR

Backlit display, sealed membrane touch pad, and Min./Max. memory. Features indicators for over-range, under-range, and discharged battery. Resolution: 0.1°F or °C, selectable.

CORDLESS PIPE CLAMP PROBE

Versatile instrument measures pipe temperature and has stainless steel, 2.5" retractable probe to measure liquids and solids. For pipes up to 1⅜" dia.

3-ZONE TEMP. INSTRUMENTS

Measure up to three temperatures plus T1-T2-T3 differential. Backlit display, sealed membrane touch pad, and Min./Max./Avg. memory. Feature indicators for over-range, under-range, and discharged battery. Include 3 interchangeable probes (air, surface, and insertion).

Description	Temp. Range	Temp. Accuracy	Brand	STANDARD Mfr. Model	STANDARD Item No.	NIST Mfr. Model	NIST Item No.
Pocket Thermometers	-40° to 302°F	±0.3°F or ±0.5% of Reading	Cooper Atkins	TM99A	**33HP78**	—	—
	-40° to 199.9°F	±0.2°F for Surface, ±1°F for Air	Supco	PT100	**3T189**	—	—
Cordless Pipe Clamp	Indoor -20° to 300°F	±3°F	Cooper Atkins	4005I	**4KY56**	—	—
Low/High Temp. Annunciator	-40° to 302°F	±0.3°F or ±0.5% of Reading	Cooper Atkins	—	—	TM99A-032G	**46F192**
3-Zone Temp. Instruments	-40° to 300°F	±0.3°F or ±0.5% of Reading	Cooper Atkins	SH66A	**2T618**	SH66A-E-032G	**46F193**

Item	Probe Connector	Temp. Range	For Use With	Brand	Mfr. Model	Item No.
Replacement and Accessory Probes						
Pipe Strap Probe	Thermistor Phono Type	-25° to 212°F	2T618, 6T444, 3PFJ4, 35R636, 35R637, 35R638, 4KY65, 46F192, 46F194, 46F193	Cooper Atkins	4011	**22XN39**
Puncture Temperature Probe	Phono	-40° to 300°F	All Cooper Atkins Thermistor instruments	Cooper Atkins	1075	**35R635**
Air Temperature Probe	Phono	-40° to 200°F	All Cooper-Atkins 10K Thermistor Instruments	Cooper Atkins	2010	**30PJ85**

Heat Stress Monitors

No. 2LVT5—Wet bulb globe temperature (WBGT) meter displays apparent ambient temperature (heat stress index) with or without the effects of direct sunlight. RS-232 interface.

No. 20LK14—Built-in multiparameter sensor measures heat index, WBGT, humidity, ambient temperature, dew point, and wet bulb. User programmable heat index/WBGT alarm.

No. 46AC37—Measures wet bulb globe temperature (WBGT), black globe temperature (TG), relative humidity, air temperature, wet bulb, and dew point.



No. 2LVT5 No. 46AC37

Item	Relative Humidity Range	Humidity Accuracy	Temp. Range	Temp. Accuracy	Wet Bulb Temp. Range	Battery Type	Mfr. Model	Item No.
Extech								
Heat Stress Monitor	0% to 100%	±3%	32° to 122°	±1.1°F	32° to 122°F	AAA	HT30	**2LVT5**
Heat Index Psychrometer	0% to 99.9%	±3%	-4° to 122°F (-20° to 50°C)	±1°F/0.6°C	-4° to 122°F	—	RH25	**20LK14**
Heat Stress Monitor	1% to 99%	±3%	32° to 122°	±1.5°	-6.9° to 122°F (-21.6° to 50°C)	9V	HT200	**46AC37**

Scan. Order. Done.
Details on page A1.


No. 4JPN6


No. 3PEY4


No. 4JPL6


No. 3PEW3


No. 3PEX1


No. 3PEY1


No. 4JPL9


No. 35R640


No. 4YKT1

Thermocouple Temperature Probes

Item	Temp. Measuring Element	Temp. Range (F)	Probe Connector	Probe Material	Wire Length	Probe Length	Brand	Mfr. Model	Item No.	Pkg. Qty.
Air and Gases										
Air Temperature Probe	K Thermocouple	-100° to 600°F	Mini	Stainless Steel	3 ft. 7"	2⅛"	Cooper Atkins	50306-K	**3PEX9**	1
	K Thermocouple	-58° to 1652°F	Mini	Stainless Steel	39.4"	6 13/32"	GA	4JPN6	**4JPN6**	1
Air and Liquids										
Immersion Temperature Probe	K Thermocouple	-100° to 500°F	—	Stainless Steel	3 ft.	4"	Cooper Atkins	55032	**3LZC8**	1
	K Thermocouple	-100° to 500°F	—	Stainless Steel	3 ft.	3½"	Cooper Atkins	55040	**3LZD5**	1
	K Thermocouple	32° to 2012°F	Mini	Stainless Steel	3 ft.	2 ft.	Cooper Atkins	49140-K	**3PEW7**	1
	K Thermocouple	-40° to 1292°F	Mini	316 Stainless Steel	3 ft. 3"	6"	Extech	881603	**19L865**	1
	K Thermocouple	-58° to 1112°F	Mini	Stainless Steel	39.4"	7 19/64"	GA	4JPN5	**4JPN5**	1
	J Thermocouple	-40° to 500°F	Mini	304 Stainless Steel	3 ft. 4"	7 19/32"	GA	5RMF3	**5RMF3**	1
	K Thermocouple	-40° to 500°F	Mini	304 Stainless Steel	3 ft. 3"	7 19/32"	GA	5RMF5	**5RMF5**	1
	K Thermocouple	-40° to 1500°F	Mini	304 Stainless Steel	3 ft. 4"	7 51/64"	GA	5RMF1	**5RMF1**	1
Needle Wire Temperature Probe	K Thermocouple	-100° to 500°F	Mini	Stainless Steel	—	3¾"	Cooper Atkins	50207-K	**3PEX5**	1
Penetration Temperature Probe	K Thermocouple	-40° to 500°F	Mini	Stainless Steel	4 ft.	4½"	Cooper Atkins	50335-K	**3PEY4**	1
	K Thermocouple	-40° to 400°F	Mini	Stainless Steel	2 ft.	4"	Cooper Atkins	31901-K	**3PEV8**	1
	K Thermocouple	-100° to 500°F	Mini	Stainless Steel	4 ft.	3½"	Cooper Atkins	50209-K	**3PEX7**	1
	K Thermocouple	-40° to 500°F	Mini	Stainless Steel	4 ft.	6"	Cooper Atkins	50336-K	**3PEY5**	1
	K Thermocouple	-50° to 1000°F	Mini	Stainless Steel	6 ft.	8"	Extech	TP882	**19L867**	1
Temperature Probe Kit	K Thermocouple	-100° to 500°F	Mini	Stainless Steel	3 ft.	2 ft. 11"	Cooper Atkins	50701-K	**3PEZ1**	1
Air and Surface										
Bead Wire Temperature Probe	K Thermocouple	-58° to 1000°F	Mini With Banana Plug Adapter	—	3 ft. 3"	—	Extech	TP875	**4FB75**	1
	K Thermocouple	-40° to 482°F	Mini With Banana Plug Adapter	—	3 ft. 3"	—	Extech	TP870	**3LRV2**	1
	K Thermocouple	-22° to 572°F	Mini With Banana Plug Adapter	—	39.4"	—	GA	4JPL6	**4JPL6**	1
	K Thermocouple	-58° to 572°F	Mini With Banana Plug Adapter	—	39.4"	—	GA	4JPN9	**4JPN9**	1
	K Thermocouple	-40° to 500°F	Mini	—	39.4"	—	GA	4JPL8	**4JPL8**	1
	K Thermocouple	-40° to 500°F	Banana Plug	—	39.4"	—	GA	4JPN3	**4JPN3**	1
	K Thermocouple	-40° to 950°F	K Type	Wire	4 ft.	—	UEI Test Instruments	ATT29	**6CMU0**	1
Grill Temperature Probe With Magnet	K Thermocouple	32° to 399°F	Mini	—	5 ft. 6"	—	GA	5RME9	**5RME9**	1
Pipe Clamp Temperature Probe	K Thermocouple	-20° to 300°F	Mini	Thermocouple	10 ft.	—	Cooper Atkins	4005MK	**3PEW3**	1
Surface Temperature Probe	K Thermocouple	-40° to 500°F	Mini	Stainless Steel	4 ft.	4½"	Cooper Atkins	50012-K	**3PEW9**	1
	K Thermocouple	-40° to 500°F	Mini	Stainless Steel	2 ft. 6"	—	Cooper Atkins	50014-K	**3PEX1**	1
	K Thermocouple	-40° to 1202°F	Mini	Stainless Steel	4 ft.	4"	Cooper Atkins	50318-K	**3PEY1**	1
	K Thermocouple	-40° to 1202°F	Mini	Stainless Steel	4 ft.	5"	Cooper Atkins	50319-K	**3PEY2**	1
	K Thermocouple	-40° to 400°F	Mini	Stainless Steel	2 ft. 6"	9"	Cooper Atkins	50001-K	**3PEW8**	1
	K Thermocouple	-4° to 482°F	Mini	—	5 ft. 6"	—	Extech	881616	**1RK13**	1
	K Thermocouple	-22° to 221°F	Mini	Hytrel 4774	3 ft. 4"	19½"	GA	5RME8	**5RME8**	1
	K Thermocouple	32° to 500°F	Mini	ABS Plastic and Chrome Plated Brass	3 ft. 3"	5 29/32"	GA	4JPL9	**4JPL9**	1
	K Thermocouple	-58° to 932°F	Mini	Stainless Steel	38.5"	9"	GA	4JPN8	**4JPN8**	1
Temperature Probe	K Thermocouple	-40° to 482°F	Type K Mini Jack with Dual Banana Plug Adapter	Chrome Alumel	3 ft. 1"	—	FLIR	TA60	**35KP94**	1
HVAC/R										
Pipe Strap Surface Temperature Probe	K Thermocouple	-25° to 300°F	Mini	Metal	10 ft.	—	Cooper Atkins	54011-K	**35R640**	1
Liquid and Food										
Temp Probe, Food	K Thermocouple	-58° to 1112°F	Mini	Stainless Steel	39.4"	7.3"	GA	4JPN7	**4JPN7**	1
Pipes, ¼ to 1½" Dia.										
Pipe Clamp Temperature Probe	K Thermocouple	-4° to 200°F	Mini	Plastic	3 ft.	5"	Extech	TP200	**2ENF4**	1
	K Thermocouple	-4° to 450°F	Mini	Plastic	3 ft.	5"	Extech	TP400	**4YKT1**	1
	K Thermocouple	-4° to 200°F	Mini	—	3 ft.	—	GA	5RMF0	**5RMF0**	1
Temperature Measurement										
Bead Wire Temperature Probe	K Thermocouple	-22° to 572°F	Type K or Dual Banana Plug	Chrome Alumel	16 ft. 4"	4"	Extech	TP873-5M	**40JZ53**	1

Item	For Use With	Probe Connector	Brand	Mfr. Model	Item No.	Pkg. Qty.
Accessories						
Type J Thermocouple Plug	Type J Thermocouple	Mini	GA	4JPN1	**4JPN1**	2
Type K Thermocouple Adapter	Type K Thermocouple	Mini	GA	4JPN2	**4JPN2**	1
Type K Thermocouple Jack	Type K Thermocouple	Mini	GA	4JPN4	**4JPN4**	1
Type K Thermocouple Plug	Type K Thermocouple	Mini	GA	4JPL7	**4JPL7**	2
Type K Thermocouple Probe Extension	Type K Thermocouple	Mini	GA	5RMF6	**5RMF6**	1
Type T Thermocouple Probe Extension	Type T Thermocouple	Mini	GA	5RMF7	**5RMF7**	1

For Fluke noncontact temperature products, see page 604.



Fluke 51-2B
No. 4YV88



Fluke 52-2B
No. 4YV90



Fluke 54-2B
No. 6MRN1



Fluke 1524
No. 4FFH7



Fluke 1551A
No. 5NLL3



Fluke 9100S
No. 4LGZ9



Fluke 9009
No. 4LHA5

Contact Thermometers, Dry Wells, and Calibrators

FLUKE

Broad line of contact temperature measurement products provide front-line troubleshooting plus trending and reporting for preventive maintenance in industrial, HVAC, and electrical applications. NIST Certified models include NIST in Mfr. Model or as noted in text.

CONTACT THERMOMETERS

Fluke 51-2B and 53-2B
- Single input
- Rugged industrial holster
- Batteries replaceable without recertification

Fluke 52-2B and 54-2B—Fluke 54-2B models include data logging/trending. FlukeView® Forms software sold separately.
- Dual input
- Real-time clock for time stamping

REFERENCE THERMOMETERS

Fluke 1551A/1552A—"Stik" thermometers are intrinsically safe.
- Replace mercury thermometers
- -50°C to 300°C (-58°F to 572°F)
- ±0.05 °C accuracy (±0.09°F)
- 300-hr. battery life (3 AAA batteries)

Fluke 1523/1524—NIST Certified, calibration certificate included. Also include I/O Tool Kit software, data cable, and power cord.
- -200° to 420°C
- ±0.011°C accuracy
- Measure PRT, thermistors, or thermocouples
- Graphs and data logs

HANDHELD DRY WELLS

Fluke 9100S/9102S Series
- ±0.25°C accuracy
- 2 models with a variety of well sizes
- Heat to 375°C in 9.5 min.
- NIST Certified, certificate included

INDUSTRIAL DUAL-BLOCK CALIBRATORS

Fluke 9009 Series—Rugged, lightweight, and watertight. No. 4LHA5 has a yellow case. No. 4LHA6 has a black case.
- -15° to 350°C
- ±0.2°C accuracy
- Hot block and cold block in 1 unit
- NIST Certified, certificate included

Mfr. Model	Thermocouple Type 2	Res.	80PK Bead Probe Included	Diff. T1-T2	Features*	Item No.
Contact Thermometers						
51-2B	J, K, T, E	0.1°C	1	No	M, A, D	**4YV88**
52-2B	J, K, T, E	0.1°C	2	Yes	M, A, T, D	**4YV90**
53-2B	J, K, T, E, N, R, S	0.1°C	1	No	M, A, T (relative), D	**6MRN0**
53-2B NIST	J, K, T, E, N, R, S	0.1°C	1	No	M, A, T (relative), D	**6MRN2**
54-2B	J, K, T, E, N, R, S	0.1°C	2	Yes	M, A, T (time of day), D, P	**6MRN1**
54-2B NIST	J, K, T, E, N, R, S	0.1°C	2	Yes	M, A, T (time of day), D, P	**6MRN3**
Fluke-51-2B NIST	J, K, T, E	0.1°C	1	No	M, A, D	**4YV87**
Fluke-52-2B NIST	J, K, T, E	0.1°C	2	Yes	M, A, T, D	**4YV89**

Temp. Range	Temp. Accuracy	No. of Inputs	Memory Storage	Display	Mfr. Model	Item No.
Fixed RTD Thermometers						
-50° to 160°C	±0.05°C (±0.1°F)	—	—	LCD	1551A-9	**5NLL3**
-50° to 160°C	±0.05°C (±0.1°F)	—	—	LCD	1551A-12	**5NLL4**
Fixed PRT Thermometer						
-80° to 300°C	±0.05°C (±0.1°F)	—	—	LCD	1552A-12	**5NLL5**
Reference Thermometers						
-200 to 420°C	±0.011°C	1	25 Readings	Graphical with Backlight	1523-156	**4FFH5**
-200 to 420°C	±0.011°C	2	15,000 Readings	Graphical with Backlight	1524-156	**4FFH7**

Temp. Range	Temp. Accuracy	Stability	Standard Hole Size	Mfr. Model	Item No.
Handheld Dry Wells					
35 to 375°C	±0.25 at 50, ±0.5 at 375°C	±0.07 at 50, ±0.3 at 375°C	1/16", 1/8", 3/32", 3/16" and 1/4" Probes	9100S-A-156	**4LGZ9**
35 to 375°C	±0.25 at 50, ±0.5 at 375°C	±0.07 at 50, ±0.3 at 375°C	1/8", 3/16", 1/4" and 3/8" Probes	9100S-B-156	**4LHA1**
-10 to 122°C	±0.25°C	±0.05°C	1/16", 1/8", 3/16", 1/4" 5/16", 3/8", 7/16" or 9/32" Probes (Dependent on Inserts Used)	9102S-156	**4LHA2**
Industrial Dual-Block Calibrators					
Cold Block: -15 to 110, Hot Block: 50 to 350°C	Cold Block: ±0.2, Hot Block: ±0.6°C	±0.05°C	1/16", 1/8", 3/16", 1/4" 5/16", 3/8", 7/16" or 9/32" Probes (Dependent on Inserts Used)	9009-Y-156	**4LHA5**
Cold Block: -15 to 110, Hot Block: 50 to 350°C	Cold Block: ±0.2, Hot Block: ±0.6°C	±0.05°C	1/16", 1/8", 3/16", 1/4" 5/16", 3/8", 7/16" or 9/32" Probes (Dependent on Inserts Used)	9009-B-156	**4LHA6**

** M = min./max.; A = avg.; T = time stamp; D = dual display; P = PC interface. The Fluke thermometers above carry a 2-yr. warranty.*

CONTACT THERMOMETER ACCESSORIES



80BK-A
-40° to 260°C
Type K Bead Probe



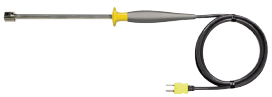
80PK-1, 80PJ-1
-40° to 260°C
Type K and J Bead Probes





80PK-22
-40° to 1090°C
Inconel® 600 Alloy (Nickel, Cromium & Iron) Immersion Probe

80PK-3A
0° to 260°C
Type K Surface Probe



80PK-27
-126° to 600°C
Type K industrial Surface Probe



80PK-24
-40° to 816°C
Type K Air Probe



80PK-26
-40° to 816°C
Type K General-Purpose Probe



80PK-9, 80PJ-9
-40° to 260°C
Type K and J HVAC Probe

Description	Temp. Range	Mfr. Model	Item No.
Contact Thermometer Accessories			
K Type Bead Wire Temperature Probe	-40° to 260°C	80BK-A	**2DPH6**
K Type Bead Wire Temperature Probe	-40° to 260°C	80PK-1	**1T322**
K Type Immersion Temperature Probe	-40° to 1090°C	80PK-22	**4CB72**
K Type Surface Temperature Probe	0° to 260°C	80PK-3A	**1T324**
K Type Air Temperature Probe	-40° to 816°C	80PK-24	**4CB73**
K Type Air and Surface Temperature Probe	-40° to 816°C	80PK-26	**4CB75**
K Type Surface Temperature Probe	-127° to 600°C	80PK-27	**4CB76**
K Type Immersion Temperature Probe	-40° to 260°C	80PK-9	**4YV59**
J Type Bead Probe	-40° to 260°C	80PJ-1	**4YV56**
J Type Immersion Temperature Probe	-40° to 260°C	80PJ-9	**4YV57**
K Type Penetration Temperature Probe	-40° to 350°C	80PK-25	**4CB74**

Charts sold separately; see page 599.



3" Chart, Super Compact



4" Chart, 3½"-Digital Display



8" Chart with Thermocouple

DICKSON

Temperature and Temperature/ Humidity Chart Recorders

- Temp. accuracy: ±1.8°F, except 3" chart models are ±2°F

Selectable chart rotation time and temperature range. Flip-up pen arm eases chart and pen changes. Temperature/humidity models have a 0% to 95% RH range; humidity accuracy is ±2% (10 to 60%), ±3% (60 to 95%).

3" Chart—Record temperature ranges in refrigerators, freezers, and incubators, and ambient conditions. Freestanding, wall-mounted, or suspended.
- Dim.: 3.7"L x 3.7"W x 2.3"D

4" Chart—Compact, portable instruments detect and record temperature changes in warehouses, commercial buildings, and critical storage areas.
- Dim.: 5.2"L x 5.2"W x 2.4"D

6" Chart—With probe for remote measurement, except Nos. 1NFH8 and 1NFJ2.
- Dim.: 7.56"L x 7.56"W x 3.25"D

8" Chart—Operate on 120VAC with AA battery backup.
- Dim.: 9.2"L x 9.2"W x 3.1"D

Recording Time (day)	Temp. Range	Includes	Display	Alarm	Calibration Certificate	Item No.
3" Chart Size, Circular Chart Recorder						
Temperature						
1 or 7	-14° to 32°F, -25° to 0°C	(1) AA Battery, (1) Red Pen	No	No	No	5KE57
	4° to 50°F, -15° to 10°C		No	No	No	5KE59
	22° to 68°F, -5° to 20°C		No	No	No	5KE61
	50° to 96°F, 10° to 35°C		No	No	No	5KE63
	76° to 122°F, 25° to 50°C		No	No	No	5KE65
4" Chart Size, Circular Chart Recorder						
1 or 7	-22° to 122°F, -30° to 50°C	(1) AA Battery, (1) Red Pen	Yes	No	No	2HZD3
			Yes	No	NIST	3DPA8
	0° to 100°F, -18° to 37°C		Yes	No	No	2HZD1
			Yes	No	NIST	3DPA7
6" Chart Size, Circular Chart Recorder						
Temperature and Humidity						
1 or 7	0° to 100°F, 0° to 185°F, 0° to 50°C, 0° to 85°C	(4) AA Batteries, (1) Red Pen, (1) Blue Pen, (1) AC Adapter	Yes	Yes	No	1NFJ3
			Yes	Yes	NIST	16L005
	32° to 100°F, 0° to 50°C		No	No	No	1NFH8
			Yes	No	No	1NFJ2
			No	No	NIST	16L003
			Yes	No	NIST	16L004
Temperature (Type K Thermocouple)						
1 or 7	-100° to 0°F/C, -50° to 0°F/C, -50° to 50°F/C, 0° to 50°F/C, 0° to 100°F/C, 0° to 250°F/C, 0° to 500°F, 50° to 100°F/C	(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) 4 ft. Wire Bead Probe	No	No	No	1NFH4
			Yes	No	No	1NFH6
			Yes	Yes	No	2CHH3
Temperature						
1 or 7	-100° to 0°F/C, -50° to 0°F/C, -50° to 50°F/C, 0° to 50°F/C, 0° to 100°F/C, 0° to 250°F/C, 0° to 500°F, 50° to 100°F/C	(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) 4 ft. Wire Bead Probe	No	No	NIST	16K995
			Yes	No	NIST	16K996
		(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) Replaceable Sensor, (1) 4 ft. Wire Bead Probe	Yes	Yes	NIST	16K997
8" Chart Size, Circular Chart Recorder						
Temperature and Humidity						
1, 7, 31	-20° to 120°F, -20° to 50°C, 0° to 185°F, 32° to 120°F, 0° to 50°C, 40° to 110°F, 5° to 40°C	(4) AA Batteries, (1) Red Pen, (1) Blue Pen, (1) AC Adapter	Yes	Yes	No	23MD05
	-20° to 120°F, -20° to 50°C, 0° to 185°F, 40° to 110°F, 5° to 40°C		Yes	Yes	No	23MD06
1 or 7	32° to 120°F, 0° to 50°C	(4) AA Batteries, (1) Red Pen, (1) Blue Pen	No	No	No	23MD03
1, 7, 31	32° to 120°F, 0° to 50°C, 40°F to 110°F, 5 to 40°C	(4) AA Batteries, (1) Red Pen, (1) Blue Pen, (1) AC Adapter	Yes	No	No	23MD04
Temperature (Type K Thermocouple)						
1, 7, 31	-50° to 50°F/C, -20° to 20°F/C, 0° to 100°F/C, 0° to 150°F/C, 0° to 250°F/C, 0° to 500°F, 0° to 1000°F/C, 0° to 2000°F, 20° to 100°F/C, 50° to 150°F/C	(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (2) 4 ft. Wire Bead Probes	Yes	Yes	No	6ETG5
			Yes	Yes	NIST	16L002
1 or 7	-50° to 50°F/C, -20° to 20°F/C, 0° to 100°F/C, 0° to 150°F/C, 0° to 250°F/C, 0° to 500°F, 0° to 1000°F/C, 0° to 2000°F, 50° to 150°F/C	(4) AA Batteries, (1) Red Pen, (1) 4 ft. Wire Bead Probe	No	No	NIST	30ZX13
1, 7, 31		(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) Replaceable Sensor, (1) 4 ft. Wire Bead Probe	Yes	No	NIST	30ZX14
		(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) 4 ft. Wire Bead Probe	Yes	Yes	NIST	30ZX15
1 or 7		(4) AA Batteries, (1) Red Pen, (1) Replaceable Sensor, (1) 4 ft. Wire Bead Probe	No	No	No	19YM20
1, 7, 31		(4) AA Batteries, (1) Red Pen, (1) AC Adapter, (1) Replaceable Sensor, (1) 4 ft. Wire Bead Probe	Yes	No	No	19YM21
			Yes	Yes	No	19YM22
Accessory						
Remote Probe Dust Filter - For Use with No. 1APA5						1APB3



4" Chart Pressure Recorder

Specialty Recorders

DICKSON

4" CHART PRESSURE RECORDERS
- Battery operated
- Dim.: 6.25"L x 6"W x 2.9"D
- ¼" NPT connection, nut not required

Instruments provide 7-day or 24-hr. pressure records for water, gas, and utility pipes. RH range: 0% to 95% noncondensing. Include pen and AA battery.

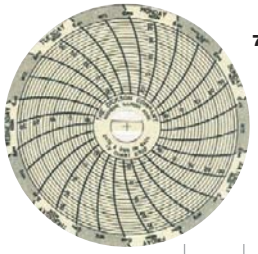
8" CHART UNIVERSAL INPUT RECORDER
- 120VAC
- Dim.: 9.2"L x 9.2"W x 3.1"D
- Input range: 0 to 20mA, 4 to 20mA 0 to 5VDC, 1 to 5VDC

Remote sensing capability for voltage or current transmitters. Features selectable output and recording times. High/Low alarms and Min./Max. readings. Charts sold separately. Includes pen and AC adapter.

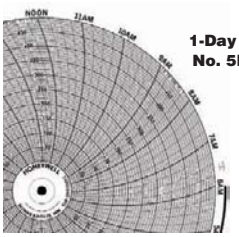
DISPOSABLE TEMPERATURE RECORDERS
- Self-contained power source
- Operating range: 0% to 95% RH (noncondensing)
- Dim.: 5.5"L x 4.12"W x 2.5"D

Suitable for proving the integrity of shipments with temperature-critical storage parameters. Include Document of Shipping sheet and mounting tape.

Recording Time (day)	Pressure Range	Temp. Range	Mfr. Model	Item No.
4" Chart, Pressure Recorders, 2% of Full Scale Accuracy				
1 or 7	0 to 100 psi psi	-22° to 122°F, -30° to 50°C	PW470	16A179
1 or 7	0 to 200 psi psi	-22° to 122°F, -30° to 50°C	PW474	16A180
1 or 7	0 to 300 psi psi	-22° to 122°F, -30° to 50°C	PW476	16A181
1 or 7	0 to 500 psi psi	-22° to 122°F, -30° to 50°C	PW479	16A182
8" Chart, Universal Input Recorder, ±3% Full Scale Accuracy				
1 or 7	—	—	ET855	1CFB2
Disposable Temperature Recorder, ±1 °F (10°to 70 °F) Accuracy				
20	—	-20° to 100°F, -30° to 37.5°C	D302	3JG69
Snubber/Filter Kit, For Use With Mfr. Series PW4, PR8, Mfr. No. PR100, PR300, PR500, PR125, PR325, and PR525			R022	3LC50



7-Day Chart
No. 3JG31



1-Day Chart
No. 5MED9

Graphic Controls DICKSON Honeywell

Circular Charts

Range	Pkg. Qty.	1-DAY CHARTS Item No.	7-DAY CHARTS Item No.	24 hr.-DAY CHARTS Item No.
3" Chart Size				
Graphic Controls				
10° to 35°C	60	30ZX33	30ZX25	—
25° to 50°C	60	30ZX38	30ZX36	—
-5° to 20°C	60	30ZX32	30ZX35	—
-14° to 32°F	60	30ZX29	30ZX23	—
-15° to 10°C	60	—	30ZX30	—
-15° to 50°F	60	—	30ZX27	—
4° to 50°F	60	30ZX39	30ZX26	—
22° to 68°F	60	30ZX40	30ZX24	—
-25° to 0°C	60	30ZX37	30ZX34	—
50° to 96°F	60	30ZX28	—	—
76° to 122°F	60	30ZX41	30ZX31	—
Dickson				
-14° to 32°F	60	3ELU1	3JG31	—
4° to 50°F	60	3JG32	3JG33	—
10° to 35°C	60	3ELV1	3ELT3	—
22° to 68°F	60	5KE69	5KE67	—
50° to 96°F	60	3JG34	3JG35	—
76° to 122°F	60	5KE71	5KE73	—
4" Chart Size				
Graphic Controls				
0° to 150°F	60	30ZX58	—	—
0° to 250°F/C	60	30ZX71	—	—
0 to 45	60	30ZX73	30ZX57	—
0 to 60 psi	60	30ZX65	30ZX66	—
0 to 100	60	30ZX43	30ZX42	—
0 to 150 psi	60	30ZX55	30ZX69	—
0 to 200 psi	60	30ZX44	30ZX45	—
0 to 300 psi	60	30ZX62	30ZX48	—
0 to 500 psi	60	30ZX59	30ZX63	—
0 to 600 psi	60	—	30ZX68	—
-10° to 40°C	60	—	30ZX70	—
120 to 240VAC	60	30ZX64	30ZX67	—
-18° to 37°C	60	30ZX56	30ZX52	—
-20° to 120°F	60	30ZX76	30ZX46	—
-22° to 122°F	60	—	30ZX50	—
-30° to 50°C	60	30ZX49	30ZX47	—
-40 to 50	60	30ZX72	30ZX53	—
45° to 90°F	60	30ZX75	—	—
-50° to 50°F/C	60	—	30ZX61	—
7° to 32°C	60	—	30ZX60	—
45° to 90°F/C	60	—	30ZX51	—
-50° to 50°C	60	30ZX74	—	—
Dickson				
0° to 100°F	60	1LXJ8	—	—
0 to 45	60	—	3ELT5	—
0 to 60	60	3ELU9	3ELT6	—
0 to 100 psi	60	—	1LXJ7	—
0 to 200 psi	60	1LXK1	1LXK6	—
0 to 300 psi	60	3ELT7	—	—
0 to 500 psi	60	—	3ELU3	—
-18° to 37°C	60	—	3ELT9	—
-20° to 120°F	60	1LXK2	1LXJ9	—
-22° to 122°F	60	3ELT8	3ELV4	—
-30° to 50°C	60	1XWH9	1XWJ1	—
-40 to 50	60	—	3ELU5	—
45° to 90°F	60	2HZD4	1LXL2	—
-50 to 50	60	—	3ELT4	—
6" Chart Size				
Graphic Controls				
0° to 50°C	60	30ZY02	30ZX81	—
0° to 100°C, -100° to 0°F	60	30ZX80	30ZX77	—
0° to -100°F/C	60	—	30ZX90	—
0° to 50°C, -50° to 0°F	60	30ZX86	30ZY03	—
0° to 200°F	60	30ZX97	—	—
0° to 200°F/C	60	—	30ZX99	—
0° to 250°F/C	60	30ZX82	30ZX78	—
0° to 500°F	60	30ZX83	30ZX92	—
0 to 14 psi	60	—	30ZX94	—
0 to 100 psi	60	—	30ZX93	—
0 to 200 psi	60	—	30ZX87	—
0 to 300 psi	60	30ZX96	30ZX88	—
0 to 300 psi	60	—	30ZX91	—
-10° to 10°C	60	—	30ZX95	—
-20° to 120°F/C	60	—	30ZX85	—
50° to 100°F/C	60	30ZX98	30ZX89	—
-50° to 50°F/C	60	30ZY01	30ZX79	—
60 to -40	60	30ZX84	—	—
Dickson				
0° to ±50°F/C	60	1LXL9	1LXL3	—
0° to ±100°F/C, 0 to 100	60	1LXK8	1LXJ6	—
0° to 50°C	60	1NFJ1	1NFH9	—
0° to 200°F	60	1NFJ4	1LXL7	—
0° to 250°F/C	60	1LXK4	1LXK7	—
0° to 500°F	60	1LXK9	1LXL5	—
-100° to 0°F/C	60	—	3ELU7	—
50° to 100°F/C	60	1NFH5	1LXL8	—
-50° to 50°F/C	60	1LXL6	1LXK5	—

Range	Pkg. Qty.	1-DAY CHARTS Item No.	7-DAY CHARTS Item No.	24 hr.-DAY CHARTS Item No.
8" Chart Size				
Honeywell				
0 to 50	100	—	5MEC6	—
0 to 100	100	5MEC1	5MEC2	—
Graphic Controls				
-0.1 to 0.1	60	30ZY47	30ZY56	—
0° to 150°F/C	60	30ZY49	30ZY57	—
0° to 200°F	60	—	30ZY15	—
0° to 250°F/C	60	30ZY08	30ZY07	—
0° to 500°F/C	60	30ZY16	30ZY48	—
0° to 1000°F/C	60	—	30ZY51	—
0° to 2000°F	60	30ZY43	30ZY38	—
0 to 10	60	30ZY27	30ZY19	—
0 to 14	60	30ZY46	30ZY55	—
0 to 30	60	30ZY20	30ZY25	—
0 to 50	100	19D944	—	—
0 to 60	60	30ZY23	30ZY21	—
0 to 100 psi	60	30ZY06	30ZY05	—
0 to 200	60	30ZY37	30ZY36	—
0 to 200 psi, 0° to 100°F	60	30ZY50	—	—
0 to 300	60	30ZY52	30ZY41	—
0 to 1000	60	30ZY35	—	—
20° to 100°F/C	60	30ZY18	30ZY22	—
-20° to 20°F/C	60	30ZY31	30ZY26	—
-20° to 50°F	60	30ZY40	30ZY11	—
-20° to 120°F, 0° to 100°C	60	—	30ZY12	—
-20° to 120°F, 0° to 120°C	60	30ZY09	—	—
-30° to 50°C	60	—	30ZY32	—
40° to 110°F	60	30ZY60	30ZY17	—
-40° to 50°F/C	60	—	30ZY33	—
-150 to 250, -0.15 to 0.25	60	30ZY29	30ZY59	—
5° to 40°C	60	—	30ZY54	—
5° to 40°C, 0° to 100°C	60	30ZY58	—	—
50° to 150°F/C	60	30ZY30	30ZY34	—
120 to 240VAC	60	30ZY28	—	—
-50° to 50°F/C	60	30ZY39	30ZY13	—
Dickson				
0° to 14°F	60	1CFB3	1CFB4	—
0° to 100°F/C	60	1PRT3	1PRT2	—
0° to 150°F	60	1CFB5	1CFB6	—
0° to 200°F/C	60	1APB7	1APB6	—
0° to 200°F/C, 0 to 100% RH	60	3ANR8	3ANR7	—
0° to 250°F/C	60	1PRV3	1PRV2	—
0° to 300°F	60	1CFB7	—	—
0° to 500°F/C	60	1PRU9	1PRU8	—
0° to 1000°F/C	60	1PRT7	1PRT6	—
0° to 2000°F	60	1PRT5	1PRT4	—
0 to 300	60	—	1CFB8	—
-20° to 20°F/C	60	—	3ELV3	—
-20° to 50°C	60	1APB8	1APB9	—
-20° to 120°F	60	1APB4	1APB5	—
5° to 40°C	60	1APD3	1APD4	—
40° to 110°F	60	1APD1	1APD2	—
-50° to 50°F/C	60	1PRV6	—	—
10" Chart Size				
Graphic Controls				
0 to 5.0	100	5MEP7	—	—
0 to 100	100	5MEN5	5MEN6	—
0 to 200	100	5MEL3	5MEL6	—
0 to 300	100	5MEN9	5MEP0	—
0 to 400	100	—	5MEL7	5MEL4
0 to 800	100	5MEL5	19D974	—
0 to 1000	100	5MEN2	19D977	—
0 to 1200	100	5MEL9	19D975	—
0 to 1500	100	5MEN3	19D978	—
0 to 2000	100	5MEL8	19D973	—
0 to 2500	100	5MEP2	19D981	—
30 to 230	100	5MEN7	19D979	—
-50 to 50	100	19D980	5MEP1	—
10.3" Chart Size				
Honeywell				
0 to 14	100	5MEE7	5MEJ5	—
0 to 15	100	5MEG7	—	—
0 to 25	100	—	5MEK7	—
0 to 30	100	5MEE8	—	—
0 to 50	100	5MEG4	5MEJ8	—
0 to 100	100	—	5MEH6	—
0 to 100	100	—	5MEK9	—
0 to 150	100	5MEF7	—	—
0 to 200	100	5MED6	5MEH7	—
0 to 250	100	5MEE3	5MEJ3	—
0 to 300	100	5MEC8	5MEJ7	—
0 to 300	100	5MEF5	5MEK1	—
0 to 400	100	5MED7	5MEH8	—
0 to 400	100	5MED8	—	—
0 to 500	100	5MED9	—	—
0 to 600	100	5MEC9	—	—
0 to 600	100	5MEF2	—	—
0 to 800	100	5MEE0	—	—
0 to 1000	100	5MEE1	—	—

Range	Pkg. Qty.	1-DAY CHARTS Item No.	7-DAY CHARTS Item No.	24 hr.-DAY CHARTS Item No.
0 to 1200	100	5MED0	—	—
0 to 1200	100	5MED2	—	—
0 to 1600	100	5MEE2	—	—
0 to 2000	100	5MED1	5MEH9	—
0 to 2400	100	5MED5	5MEJ0	—
-5 to 50	100	—	5MEJ1	—
-35 to 75	100	—	5MEJ2	—
-40 to 60	100	—	5MEK2	—
-50 to 25	100	—	5MEJ6	—
-100 to 200	100	5MEH2	—	—
-250 to 150	100	5MEE9	—	—
50 to 250	100	5MED4	—	—
50 to 250	100	5MEG3	—	—
50 to 650	100	5MEF3	—	—
-85 to 190	100	5MEF0	—	—
-90 to 210	100	5MEE6	5MEJ4	—
-100 to 100	100	—	5MEK3	—
Graphic Controls				
0 to 15	100	—	19D971	—
0 to 25	100	19D951	—	—
0 to 30	100	—	19D964	—
0 to 150	100	—	19D970	—
0 to 400	100	—	19D953	—
0 to 500	100	—	19D954	—
0 to 600	100	—	19D967	—
0 to 600	100	—	19D955	—
0 to 800	100	—	19D956	—
0 to 1000	100	—	19D961	—
0 to 1000	100	—	19D957	—
0 to 1200	100	—	19D959	—
0 to 1200	100	—	19D958	—
0 to 1600	100	—	19D960	—
-5 to 50	100	19D946	—	—
-35 to 75	100	19D947	—	—
-40 to 60	100	19D949	—	—
-50 to 25	100	19D948	—	—
-100 to 100	100	19D950	—	—
-100 to 200	100	—	19D972	—
-250 to 150	100	—	19D965	—
50 to 250	100	—	19D952	—
50 to 650	100	—	19D968	—
10.313" Chart Size				
-85 to 190	100	—	19D966	—
11.8" Chart Size				
Honeywell				
0 to 14	100	5MEC0	—	—
0 to 100	100	5MEC3	5MEA3	—
0 to 600	100	5MEA5	—	—
Graphic Controls				
0 to 14	100	—	19D940	—
0 to 200	100	5MER2	19D982	—
0 to 250	100	—	19D942	—
0 to 600	100	—	19D941	—
30 to 230	100	5MER3	—	—
11.875" Chart Size				
Honeywell				
0 to 250	100	5MEA4	—	—
12" Chart Size				
No Range	100	5MER8	—	—

Range	Pkg. Qty.	5 hr.-DAY CHARTS Item No.	31-DAY CHARTS Item No.
4 Chart Size			
Graphic Controls			
0 to 200 psi	60	30ZX54	—
8 Chart Size			
Graphic Controls			
0° to 100°F/C	60	—	30ZY04
0° to 250°F/C	60	—	30ZY24
0° to 500°F/C	60	—	30ZY42
-20° to 50°F	60	—	30ZY45
-20° to 120°F, 0° to 100°C	60	—	30ZY10
5° to 40°C, 0° to 100°C	60	—	30ZY53
40° to 110°F, 0° to 100°F	60	—	30ZY14
-50° to 50°C	60	—	30ZY44

Description	Item No.	Pkg. Qty.
Replacement Pens		
Replacement Pen Kit (3 Red/Blue) - Use with Circular Chart Recorders	1APB2	1
Chart Recorder Pens (Red Pkg. 6) - For Use with all Dickson Chart Recorders	1LXJ5	6
Chart Recorder Pens (Red & Blue Pkg. 6) - For Use with all Dickson Chart Recorders	30ZY61	6
Chart Recorder Pens (Red Pkg. 6) - For Use with all Dickson Chart Recorders	30ZY62	6
Chart Recorder Cartridge		
For Use with all Partlow Recorders	5MFG5	1


No. 6NZH4


No. 6YNG3


No. 40GT02


No. 3YXJ2


No. 5WYT4


No. 1UKE1


No. 5WYT5


No. 49AW78


No. 15X981

AMPROBE EXTECH INSTRUMENTS
FLIR GENERAL TRAMEX

Moisture Meters

All except No. 20VC74 include batteries.


No. 3YXP8


No. 23NU19


No. 15X978


No. 20VC74


No. 3MLG4


No. 3MLK7

Item	Moisture Content	Display	Interface	Memory	Data Hold	Battery Type	Mfr. Model	Item No.
Amprobe								
Moisture Meter	Wood/ Paper 8-60%, Building Material 0.30 to 2.0%	Dual, LCD and LED	No	No	No	9V	MT-10	**6NZH4**
Extech								
Combination Pin/Pinless Moisture Meter	0 to 99.9% Wood (Pin), 0 to 99.9 Relative (Pinless)	LCD	No	No	No	9V	MO290-NISTL	**6YNG8**
	0 to 99.9 Relative	Dual Line LCD	No	No	Yes	9V	MO290	**2ENE8**
Digital Pin Moisture Meter	6 to 44% Wood, 0.2 to 2.0% Building Materials	3 Digit LCD With Bargraph	No	No	No	CR2032	MO210	**1UKE2**
	1 to 75% Wood, 0.1 to 2.4% Other Building Materials	Dual Graphical LCD With Analog Bargraph	No	No	No	CR2032	MO230	**6YNG3**
Moisture Meter	5 to 50% In Wood, 1.5 to 33% In Building Materials	LCD	No	No	Yes	9V	MO50	**40GT02**
	6 to 44%	LCD	No	No	No	AAA	MO220	**3YXJ2**
	0 to 99	LCD with Bargraph	Bluetooth	20 Readings	Yes	9V	MO300	**40JZ49**
Pin/Pinless Moisture Meter	6 to 94.8% Wood (Pin), 0 to 99.9 Relative (Pinless)	LCD and Tri-color LED Bargraph	No	No	Yes	9V	MO260	**5WYT4**
	6 to 99.9% Wood (Pin), 0 to 99.9 Relative (Pinless)	LCD with tri-color LED bargraph	No	No	Yes	9V	MO265	**6YNG4**
Pinless Digital Moisture Meter	0 to 99% Wood	3 Digit LCD	—	—	Yes	9V	MO280	**1UKE1**
Pinless Moisture Meter	0 to 100.0 Relative	Backlit LCD	No	No	Automatic	AA	MO257	**5WYT5**
FLIR								
Imaging Moisture Meter	7% to 30% (Pin), 0% to 100% (Pinless)	2.3" 64K Color TFT Graphical	USB	9999 Readings	No	3.7V	MR160 Pro Kit	**49AW78**
Imaging Moisture Meter Pro	7% to 30% (Pin), 0% to 100% (Pinless)	2.3" 64K Color TFT Graphical	USB	9999 Readings	No	3.7V	MR176 Pro Kit	**49AW79**
Moisture Meter	7% to 30% (Pin), 0% to 100% (Pinless)	2.3" 64K Color TFT Graphical	USB	9999 Readings	No	3.7V	MR60	**49AW82**
General								
Digital Moisture Meter Kit	5.5 to 99.9%	Backlit LCD	—	99 Readings	Yes	9V	MM70D-7022KIT	**4ENF7**
General Purpose Moisture Meter	0% to 50%	LCD	No	No	Yes	AA	MM6012	**15X981**
Moisture Meter	Wood material: 6% to 40% Moisture Content. Concrete Material: 0% to 100% Moisture Content	LED & LCD Digital Display	No	Min/Max Readings Can Be Saved And Viewed	Hold, Record (Min/Max)	9V	MMD7003	**3YXP8**
	0 to 99	Backlit LCD	No	No	Yes	9V	23NU19	**23NU19**
	5 to 50% In Wood, 1.5 to 33% In Building Materials	Backlit LCD	Bluetooth	No	Yes	9V	TS06	**53CJ26**
Pin/Pinless Deep Sensing Moisture Meter	6.0% to 87.6% WME and 0.1 to 99.9 REL	0 to 99.9 Count LCD and 40-Dot Tri-Color Bar Graph	No	No	Yes	9V	MMD900	**15X980**
Pin/Pinless Moisture Meter with Temperature and Humidity	5% to 50% for Wood, 1.5% to 33% for Building Materials	LCD	No	No	Yes	9V	MMH800	**15X978**
Pinless LCD Moisture Meter	—	LCD	No	No	No	9V	MMD5NP	**3YXJ8**
Pinless Moisture Meter	0% to 53% for Softwood, 0% to 35% for Hardwood	LCD with Tri-Color LED Bar Graph	No	No	Yes	9V	MMD7NP	**41R114**
Soil Moisture Meter	Dry+, Dry, Normal, Wet, Wet+	LCD	No	No	No	9V	DSMM600	**20VC74**
	0% to 99.9%	LCD	No	20 Readings	Yes	9V	RHMG650	**20VC77**
Tramex								
Concrete Moisture Meter	0 to 6% in Concrete	Analog	No	No	Yes	9V	CME 4	**3MLG4**
	0% to 6.9 % In Concrete, 7% to 40% In Wood	Digital	No	No	Yes	9V	CMEX2	**45CY31**
Moisture Meter Kit	0% to 6.9 % In Concrete, 7% to 40% In Wood	Digital	No	No	Yes	9V	FZK5.1	**45CY16**
Roof and Wall Moisture Scanner	0 to 100 On A Relative Scale	Analog	No	No	Yes	9V	RWS	**3MLK7**

NotifEye™ Temperature Monitoring Kits

- Temp. range: -25° to 180°F
- Wireless range: 2500 ft.
- Not compatible with Windows® XP or Macintosh® operating systems

The NotifEye cloud-based temperature monitoring and notification system is a low-cost wireless solution for monitoring and notification. System data is accessible online 24/7, while out-of-range notifications are sent in real-time as e-mail and text alerts. Sensors pass information wirelessly to the software database which collects and records data 24 hours a day, every day. Gateway Buffer, No. 52ET88, will store 65,000 readings if the gateway is not receiving power. Each Wireless Temperature Sensor is battery operated and monitors against preset conditions that are user-defined within the NotifEye application. Wireless Humidity Sensor, No. 52ET86, measures 0% to 90% relative humidity.

SUPPLIER DIVERSITY Cooper ATKINS


No. 52ET83


No. 52ET91

Item	Includes	Mfr. Model	Item No.
Gateway Receiver	Ethernet Cable	15504	**52ET89**
Gateway Receiver Kit	Buffer, Receiver	15515G	**52ET90**
Gateway Kit	(4) Temperature Sensors, (4) Batteries, Power Cable, Base Station, Ethernet Cable, 1 yr. Web Hosting	15906	**52ET91**
Gateway Kit	(2) Temperature Sensors, (2) Batteries, Power Cable, Base Station, Ethernet Cable, 1 yr. Web Hosting	15907	**52ET92**
Gateway Buffer	Gateway Cable, Power Cable	15513G	**52ET88**
Wireless Temperature Sensor	Transmitter, 6 ft. Probe, Battery	15200	**52ET83**
Wireless Temperature Sensor	Transmitter, 10 ft. Probe, Battery	15200-10	**52ET84**
Wireless Temperature Sensor	Transmitter, 30 ft. Probe, Battery	15200-30	**52ET85**
Wireless Humidity Sensor	Humidity Transmitter, Battery	15220	**52ET86**
Wireless Contact Sensor	Contact Transmitter, Battery	15230	**52ET87**
Waterproof Enclosure	—	10110	**52ET93**
Solid Simulator	—	10185	**52ET94**



EXTECH INSTRUMENTS

Water Damage Restoration Kit

Tools to take detailed measurements of moisture levels under baseboards, between walls, and in hardwood and plywood subfloors include pinless moisture meter, pocket moisture meter, and precision hygrothermometer.

Description	Mfr. Model	Item No.
Water Damage Restoration Kit	MO280-KW	**2TKT8**

Infrared Thermometer Terminology

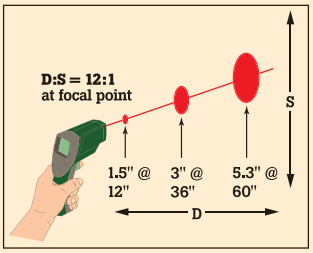
Noncontact IR thermometers determine temperature using thermal radiation from the object(s) being tested.

Focus Spot Size and Distance—Indicates the diameter measured at a given distance from the object. For example, 1" @ 12" indicates that a thermometer focuses on a 1"-dia. spot 12" from the thermometer.

Emissivity—A surface's ability to give off infrared radiation relative to a black body, which theoretically emits at 100% or 1.0. Material and surface texture affect emissivity. For example, a given polished metal may have an emissivity value of 0.20 and wood a value of 0.95. IR thermometer selection may consider whether a surface/immersion probe is required for adjustments to emissivity.

1-Dot Laser Sighting—A laser pointer identifies the target area.

2-Dot/Convergence/Dual Laser Sighting—2 lasers converge to a single point; a 1"-dia. around that point is the measurement area.



Focus Spot Size and Distance


Convergence

WESTWARD
AMPROBE
testo

Pocket-Style Infrared Thermometers

General purpose thermometers show readings on LCDs. Pocket-size portability makes it easy to take and use thermometers anywhere.



No. 1VEP7



No. 1VER1



No. 34D332


No. 49ZZ59

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Data Hold	Battery Type	Brand	Mfr. Model	Item No.
Infrared Thermometer										
1 in @ 1 in	-67° to 428°	±2.0% or ±4.0° Whichever is Greater	0.95 fixed	Battery and Neck Lanyard	Single Dot	N/A	CR2032	Westward	1VEP7	**1VEP7**
1 in @ 1 in	-28° to 230°	±2.5% of Reading or ±4.5° Whichever is Greater	0.95 fixed	Battery and Wrist Strap	Single Dot	Yes	LR44	Westward	1VER1	**1VER1**
1 in @ 6 in	-20° to 932°	±2.0% of Reading or ±4.0° Whichever is Greater	Adjustable 0.10 to 1.00	Battery and Wrist Strap	Single Dot	Yes	AAA	Westward	54TZ28	**54TZ28**
1 in @ 8 in	-20° to 932°	±4.0° at 70.0° Nominal	0.95 fixed	Probe, Users Manual	Single Dot	Yes	AAA	Amprobe	IR-450	**34D332**
1 in @ 10 in	-22° to 482°	±1.5% of Reading or ±2.7 °From 32.0 to 482.0°, ±3.6 °From -4.0° to 32.0°, ±4.5 °From -22.0° to -4°	Adjustable 0.10 to 1.00	Wrist Strap, Batteries, Certificate of Calibration	Circular	Yes	(3) AAA	Testo	0560 1805 01	**49ZZ59**
Accessory										
Nylon Thermometer Pouch, Use with Nos. 2ZB46, 1VEP6, and 1VEP9								Westward	1VEP3	**1VEP3**

EXTECH INSTRUMENTS
FLIR
Milwaukee
UEi TEST INSTRUMENTS

NIST Certified Infrared Thermometers

Easy-to-read LCDs quickly provide temperature readings.


No. 6RGK8



No. 49VU04



No. 45PF92

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
Extech										
1 in @ 12 in	-58° to 1200°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery and Pouch Case	Single Dot	9V	Yes	NIST	42510A-NIST	**2LZV2**
1 in @ 12 in	-4° to 1202°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery, Case	Single Dot	9V	Yes	—	IR270-NIST	**55EP29**
1 in @ 13 in	-58° to 1472°	±2.0% of Reading	Adjustable 0.10 to 1.00	Battery, K Type Bead Probe and Pouch	Single Dot	9V	Yes	NIST	42515-NIST	**2LZV3**
1 in @ 30 in	-58° to 1832°	+/-4.5°	Adjustable 0.10 to 1.00	Instructions, Pouch Case, Battery	Convergence	9V	Yes	NIST	42512-NIST	**6RGK8**
1 in @ 50 in	-58° to 1832°	±2.0% of Reading	Adjustable 0.10 to 1.00	Battery and Carrying Case	Single Dot	9V	Yes	NIST	42545-NIST	**2LZV6**
1 in @ 50 in	-58° to 3992°	±1.0% of Reading	Adjustable 0.10 to 1.00	Type K Temperature Probe, USB Cable and Software, Carrying Case, Tripod, Battery and Instructions	Convergence	9V	Yes	NIST	42570-NISTL	**4TXH7**
FLIR										
1 in @ 24 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Batteries	Single Dot	AAA	Yes	NIST	TG54-NIST	**49VU04**
1 in @ 30 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Type K General Purpose Probe, Batteries	Single Dot	AAA	Yes	NIST	TG56-NIST	**49VU05**
Milwaukee										
1 in @ 10 in	-22° to 752°	±2.0%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2267-20NST	**45PF90**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2268-20NST	**45PF92**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	Manual and NIST Certification	Single Dot	M12	Yes	Yes	2278-20NST	**45PF96**
1 in @ 30 in	-40° to 1472°	±2.0%	Adjustable 0.10 to 0.99	(1) 9V Battery, Manual, K-Type Thermocouple, NIST Certification	Single Dot	9V	Yes	Yes	2269-20NST	**45PF94**
UEi Test Instruments										
1 in @ 12 in	-76° to 1022°	+/-2.0% or +/-4.0° Whichever is Greater	Adjustable 0.30, 0.70, 0.95	Holster, (2) AAA Batteries	Circular	AAA	Yes	NIST	INF195C-N	**49EL82**


No. 20VC80


No. 4TXH6


No. 48FT96


No. 485A80


No. 45PF95


No. 4XX07


No. 21CH59


No. 28AF72

Infrared Thermometers

Noncontact thermometers have advanced features for a wide range of applications.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
Amprobe										
1 in @ 8 in	0° to 716°	±2.0%	0.95 fixed	Battery	Single Dot	9V	No	No	IR-708	**485A80**
1 in @ 20 in	-26° to 1922°	—	Adjustable 0.10 to 1.00	Carrying Bag, Battery and Instruction Manual	Single Dot	—	Yes	No	IR-720	**14K230** ‡
Extech										
1 in @ 8 in	-4° to 630°	+/-2.0% of Reading +4.0°	0.95 fixed	Battery, Case and Instructions	Single Dot	9V	Yes	No	IR400	**6XFV4**
1 in @ 12 in	-58° to 1112°	+/-3.6°	Adjustable 0.05 to 1.00	9V Battery, General Purpose Type K Bead Wire Probe and Instructions	Single Dot	9V	Yes	No	IR267	**53PZ24**
1 in @ 12 in	-4° to 1202°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery, Case	Single Dot	9V	Yes	No	IR270	**55EP28**
1 in @ 30 in	-58° to 1832°	+/-4.5°	Adjustable 0.10 to 1.00	Instructions, Pouch Case, 9V Battery	Single Dot	9V	Yes	No	42512	**2HZC4** ‡
1 in @ 50 in	-58° to 1832°	—	Adjustable 0.10 to 1.00	Battery and Carrying Case	Single Dot	9V	Yes	No	42545	**2TKT3** #
1 in @ 50 in	-58° to 3992°	±1.0% of Reading	Adjustable 0.10 to 1.00	Type K Temperature Probe, USB Cable and Software, Carrying Case, Tripod, Battery and Instructions	Single Dot	9V	Yes	No	42570	**4TXH6** *
FLIR										
1 in @ 24 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Batteries	Single Dot	AAA	Yes	No	TG54	**48FT96**
1 in @ 30 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Type K General Purpose Probe, Batteries	Single Dot	AAA	Yes	No	TG56	**48FT97**
General										
1 in @ 12 in	-40° to 1076°	±2.0% of Reading or ±3.0° Whichever is Greater above 32.0°, ±2.0% of Reading or ±5.0° Whichever is Greater below 32.0°	0.95 fixed	Battery	Single Dot	9V	Yes	No	TS05	**53CJ25**
1 in @ 50 in	-76° to 2732°	±1.8 °From 59.0° to 95.0°, ±2% of Reading or ±3.6° Whichever is Greater from -27.0° to 59.0°, ± 5.4 °From 95.0° to 2732.0°	Adjustable 0.10 to 1.00	Hard Plastic Protective Case, User's Manual and Batteries	Single Dot	AAA	Yes	No	IRT850K	**20VC80**
Milwaukee										
1 in @ 10 in	-22° to 752°	±2.0%	0.95 fixed	(1) 9V Battery, Manual	Single Dot	9V	Yes	No	2267-20	**45PF89**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	Manual	Single Dot	M12	Yes	No	2278-20	**45PF95**
1 in @ 30 in	-40° to 1472°	—	Adjustable 0.10 to 0.99	(1) 9V Battery, Manual, K-Type Thermocouple	Single Dot	9V	Yes	No	2269-20	**45PF93**
Raytek										
1 in @ 8 in	0° to 750°	+/-2.0% or +/-3.5° Whichever is Greater	0.95 fixed	Battery	Single Dot	9V	No	No	RAYMT4U	**4XX07**
UEI Test Instruments										
1 in @ 12 in	-76° to 1022°	+/-2.0% of Reading or +/-4.0° Whichever is Greater	Adjustable 0.30, 0.70, 0.95	Battery, K-Type Thermocouple, Carrying Case	8 Dot Circle	AAA	Yes	CE	INF195C	**21CH59**
Westward										
1 in @ 6 in	-20° to 932°	+/-2.0% of Reading or +/-4.0° Whichever is Greater	Adjustable 0.10 to 1.00	Battery and Wrist Strap	Single Dot	AAA	Yes	No	54TZ28	**54TZ28**
1 in @ 10 in	-58° to 1000°	±7.0 °From -58.0° to 32.0°, ±2.0% of Reading or ±4.0° Whichever is Greater from 32.0° to 1000.0°	0.95 fixed	Battery and Canvas Bag	Single Dot	9V	Yes	No	54TZ29	**54TZ29**
1 in @ 12 in	-58° to 1472°	±9.0 °From -58.0° to -4.0°, ±1.5% of Reading or ±3.6° Whichever is Greater from -4.0° to 392.0°, ±2.0% of Reading or ±3.6° Whichever is Greater from 392.0° to 1000.0°, ±3.5% of Reading or ±9.0° Whichever is Greater from 1000.0° to 1472.0°	Adjustable 0.10 to 1.00	Battery, Canvas Bag, K-Type Thermocouple Probe	Dual	9V	Yes	No	54TZ30	**54TZ30**
1 in @ 12 in	-4° to 752°	+/-2.0% or +/-2.0° Whichever is Greater	Adjustable 0.10 to 1.00	Instructions, Battery	Single Dot	9V	Yes	No	28AF72	**28AF72**
1 in @ 20 in	-58° to 1922°	+/-4.5°From -58.0° to 68.0°, +/-1.0% of Reading or +/-1.8°Whichever is Greater from 68.0° to 572.0°, +/-1.5% of Reading, from 572.0° to 1922.0°	Adjustable 0.10 to 1.00	Battery and Canvas Bag	Dual	9V	Yes	No	54TZ31	**54TZ31**
1 in @ 30 in	-58° to 2282°	±9.0 °From -58.0 to -4.0°, ±1.5% of Reading or ±3.6° Whichever is Greater from -4.0° to 392.0°, ±2.0% of Reading or ±3.6° Whichever is Greater from 392.0° to 1000.0°, ±3.5% of Reading or ±9.0° Whichever is Greater from 1000.0° to 2282.0°	Adjustable 0.10 to 1.00	Battery, Canvas Bag, K-Type Thermocouple Probe	Dual	9V	Yes	No	54TZ32	**54TZ32**

**** Captures Max./Min. ‡ Captures Max. # Captures Max./Min./Avg./Dif.***



EXTECH INSTRUMENTS

Noncontact Infrared Forehead Thermometer

- Fixed emissivity: 0
- 32-record memory
- Audible and visual alarm

Selectable fever/surface function shows temperature within 0.5 sec. on backlit LCD. Features automatic Hold. Includes storage pouch and 9V battery.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Mfr. Model	Item No.
1.9 to 5.9"	32° to 140°	±0.5°	IR200	**4NLW2**

FLUKE

Infrared Thermometer

- Infrared technology allows quick surface temperature readings
- Takes rapid and frequent noncontact temperature measurements without risk of cross contamination

A complete temperature measurement and monitoring solution for food service professionals. Helps guard against improper receiving, storage, and holding temperatures. Features HACCP check lights for instant recognition of safe/unsafe temperatures. Hand washable (IP54 sealed). Includes battery and quick-start guide.



Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Brand	Mfr. Model	Item No.
2 in @ 5 in	-20° to 390°	±2.0°	Preset for Food Service Applications	Battery, Quick Start Guide	Single Dot	AA	Fluke	FLUKE-FP	**5YE64**

Raytek
A Fluke Company

Infrared Temperature Sensors

- Type: Fixed mount
- Power source: 12-24VDC
- Response time: 350 msec
- Protection: IP65 (NEMA 4)

50Ω impedance. Nos. 1CVJ1 to 1CVJ4 are 3½"L sensors with ¾ x 16 UNF threads and include 2 mounting nuts.

Focus Spot Size and Distance	Cable Length	Temp. Range	Output	Accuracy	Mfr. Model	Item No.
Fixed 0.95						
1" @ 4"	10 ft.	32° to 240°F	J Thermocouple	±2% or ±6°F (±3°C)	RAYCI1A10L	**1CVJ1**
1" @ 4"	10 ft.	212° to 932°F	J Thermocouple	±2% or ±6°F (±3°C)	RAYCI1B10L	**1CVJ2**
1" @ 4"	10 ft.	32° to 240°F	10 mV Per Degree C	±2% or ±6°F (±3°C)	RAYCI3A10L	**1CVJ3**
1" @ 4"	10 ft.	212° to 932°F	10 mV Per Degree C	±2% or ±6°F (±3°C)	RAYCI3B10L	**1CVJ4**
Digital Panel Meter						
For Use With 1CVJ1 - 1CVJ4 and 1CVJ7 - 1CVJ9 IR Sensors				—	RAYGPCM	**1CVK3**



No. 1CVK3

Visual Infrared Thermometers

FLUKE

The visual image and infrared heat map are blended to help exactly identify the trouble spot, with Near and Far modes to align the visual and infrared lenses. A center measurement box lets you see the exact area of temperature measurement on screen. Temperature alarms and automated monitoring help predict problems over time; get alerts when a temperature is outside range. Markers help identify hot and cold spots within the field of view. SmartView® reporting software helps you optimize the image blending and create professional reports.

Emissivity	Temp. Accuracy	Includes	Special Features	Mfr. Model	Item No.
Infrared Visual Thermometers					
Adjustable 0.01 to 1.00	±2.0% or ±2.0°C	Hard Case, Micro SD Card, Micro SD Conversion Adapter, Rechargeable Li-Ion Battery, Charger Set, Lanyard, Printed Quick Start Guide, Analysis and Reporting Software CD, Manual and Quick Start Guide On CD	Built-In Digital Camera, Thermal Heat Map Blending Overlay with One Button, Blend Digital and Thermal Images to Instantly Show The Exact Location of The Issue, Fully Automatic, Reporting Software, Make Professional Reports, Powerful Resolution with PyroBlend™ Plus Optics, View for Tight Spaces, Automated Monitoring Alarm	FLK-VT04	**29TJ14**
		Portable Soft Case, Micro-SD Card, Micro-SD Conversion Adapter to Standard, (4) AA Batteries, Charger/Adapter Set, Printed Quick Start Guides	Battery Savings Modes, Configurable Auto-Off Timer, Auto LCD Dimming, Adjustable LCD Brightness	FLK-VT04A	**31FM96**
Accessories					
Rechargeable Battery				FLK-VT04-BATTERY	**29TJ15**
Battery Charger				FLK-VT04-CHARGER	**29TJ16**

Includes	Mfr. Model	Item No.
Infrared Thermometer Kits		
Hard Case, Micro SD Card, Micro SD Conversion Adapter, Rechargeable Li-Ion Battery, Charger Set, Lanyard, Printed Quick Start Guide, Analysis and Reporting Software CD, Manual and Quick Start Guide On CD, VT04 Visual IR Thermometer, 1507 Insulation Multimeter	FLK-VT04-MAINT-KIT	**29TJ19**



No. 31FM96
Sleek design fits in your pocket

For more information on Fluke Connect® products, see page 610.

Infrared Thermometers

FLUKE

Bright laser provides precise targeting.

Fluke 59 Max
No. 20AZ68



Fluke 59 Max/59 Max+
- Temperature measurement to 662°F (No. 20AZ68) and 932°F (No. 20AZ69)
- Distance to spot ratio: 8:1 for No. 20AZ68, 10:1 for No. 20AZ69
- 1P40 rated

Small and lightweight design for easy portability.

Fluke 61
No. 3MU88



Fluke 61
- Temperature measurement to 525°F
- 1-button point-and-shoot

Infrared thermometer has an easy-to-use, remote control-shaped housing.

Fluke 64 Max
No. 54DD62



Fluke 62 Max/62 Max+/64 Max
- High-temperature measurement to 932°F (No. 16X949) and 1112°F (Nos. 16X950 and 54DD62)
- IP54 dust- and water-resistant
- 3m drop-tested
- Distance to spot ratio: 20:1

Lightweight mini IR thermometers are designed for a natural hand fit. Large backlit LCD shows Min./Max./Avg./Dif. No. 16X950 employs dual-rotating lasers to identify the target.

Fluke 561
- High-temperature measurement to 1022°F
- Noncontact and contact measurement
- 3 emissivity settings

Bright laser provides precise targeting. Easy scroll-through menu. No. 20Z193 displays thermocouple temperature readings.



Fluke 561
No. 1PEK8

Fluke 566/568
- High-temperature measurement to 1470°F
- Noncontact and contact measurement
- Continuous trending and data logging

Include a hard case for maximum protection.



Fluke 566/568
No. 2DPJ1

Fluke 572-2
- High-temperature measurement to 1652°F
- Distance to spot ratio: 60:1

Rugged, ergonomic design for tough environments. Dual laser sighting for fast, accurate targeting.



Fluke 572-2
No. 29TJ26

Operating Temp. Range	Focus Spot Size and Distance	Emissivity	Accuracy	Features*	Mfr. Model	Item No.
14° to 122°F	1" @ 8"	Adjustable 0.10 to 1.00	±2°C or ±2% of Reading Whichever is Greater	B, M	FLUKE-59 MAX	20AZ68
-22° to 1112°F	20" @ 1"	Adjustable 0.10 to 1.00	±1.0 %		Fluke 64 MAX	54DD62
-30 to 650°C	"1" @ 12""	Adjustable 0.10 to 1.00	±1.0°C or ±1.0% of reading, whichever is greater		FLUKE 417D+62MAX+ KIT	55EP61
32° to 120°F	1" @ 8"	Fixed 0.95	±2.0% of Reading	C, B	Fluke-61	3MU88
	1" @ 12"	Fixed 0.95	1.0%	M, B	Fluke-63	5YB17
	1" @ 10"	Adjustable 0.10 to 1.00	1.5°C	M, B	Fluke-62 Max	16X949
	1" @ 12"	Adjustable 0.10 to 1.00	1°C	M, B	Fluke-62 Max+	16X950
	1" @ 12"	Adjustable 0.30, 0.70, 0.95	±2°F or ±1.0%	C, M, B, P	Fluke-561	1PEK8
	1" @ 12"	Adjustable 0.30, 0.70, 0.95	±1% C	C, M, B, P	Fluke-561	20Z193
	1" @ 30"	Adjustable 0.10 to 1.00	±2°F or ±1%	C, M, B, P, A, D	Fluke-566	2DPJ1
32° to 122°F	1" @ 30"	Adjustable 0.10 to 1.00	±2°F or ±1%	C, M, B, P, A, D	Fluke-566/NIST	2DPJ3
	1" @ 50"	Adjustable 0.10 to 1.00	32°F ±2°F or ±1.0%	C, M, B, P, A, S, D	Fluke-568	2DPJ2
	1" @ 50"	Adjustable 0.10 to 1.00	32°F ±2°F or ±1.0%	C, M, B, P, A, S, D	Fluke-568/NIST	2DPJ4
	1" @ 50"	Adjustable 0.10 to 1.00	±1.0°C or ±1.0%		FLK-568 EX/ETL	29TJ20
	1" @ 10"	Adjustable 0.10 to 1.00	±1.5°C or ±1.5%	B, M	FLUKE-59 MAX +	20AZ69
	1" @ 60"	Adjustable 0.10 to 1.00	±2°F or ±1.0%	C, D, CF, M	FLUKE-572-2	29TJ26
	1" @ 60"	Adjustable 0.10 to 1.00	±2°F or ±1.0%	C, D, CF, M	FLUKE-572-2/CWG	29TJ27

** A = average, B = backlight, C = case, CF = close focus, D = data storage, IS = intrinsically safe, M = min./max./diff., P = pouch, PR = probe, S = surface. Thermometers have a 2-yr. warranty, except No. 3MU88 is warranted for 1 yr.*



No. 4LHC7

Precision Infrared Calibrators

FLUKE

FLUKE® 4180 AND 4181
- -15° to 500°C
- 6" target size for portable thermometers

Compensate for errors caused by thermometer emissivity settings, improving accuracy. Radiometric calibration for traceable, consistent results. With built-in procedures for Fluke and Raytek® thermometers.

Temp. Range	Temp. Accuracy	5 in. dia. Uniformity	Target Emissivity	Target Size	Mfr. Model	Item No.
Precision Infrared Calibrators						
5° to 248°F (-15° to 120°C)	±0.40°F @ 0°F, ±0.72°F @ 5°F, ±0.55°F @ 120°F, ±1.0°F @ 248°F	±0.15 at -15°C ±0.25 at 120°C	0.95	6 in (152.4 mm)	4180-156	4LHC6
95° to 932°F (35° to 500°C)	±0.35°F @ 35°F ±0.63°F @ 95°F, ±1.60°F @ 500°F, ±2.9°F @ 932°F	±0.1 at 35°C ±1.0 at 500°C	0.95	6 in (152.4 mm)	4181-156	4LHC7
Temperature Accessories for Pipes						
Type K Pipe Clamp Thermocouple Probe, -20° to 300°F, 1.375"					80PK-8	1W503
Type K Pipe Clamp Thermocouple Probe, -20° to 300°F, 2.5"					80PK-10	4FFH1
Type K Flexible Cuff Thermocouple Probe, -19.3° to 302°F					80PK-11	1DGX9
Kit, Nos. 1W503 (80PK-8) and 4FFH1 (80PK-10)					80PK-18	4FFH2
Accessories for Fluke 4180/4181						
Rugged Carrying Case for Nos. 4LHC6 (4180) and 4LHC7 (4181)					4180-CASE	4LHC8
Infrared Instrument Aperture, Reduces Scatter, for Nos. 4LHC6 (4180-156) and 4LHC7 (4181-156)					4180-APRT	4LHC9



Wireless Temperature Module

FLUKE

FLUKE CONNECT

This versatile K-type thermocouple thermometer wirelessly relays measurements to other Fluke Connect®-enabled test tools. Designed to detect temperature differences between 3 phases in ⅓ the time of previous methods. Sends data to your laptop and goes from logging to analysis and diagnosis. Records over time to monitor circuit load changes for an hour, a shift, or a week.

Temp. Range	Accuracy	For Use With	Includes	Temp. Measuring Element	Wire Length	Mfr. Model	Item No.
-200° to 1372°C	0.50% ±0.5 °C	FC 3000 Series Multimeter or PC3000 Series Adapter	Bead Probe, Magnet Strap, Information Pack	K Thermocouple	3 ft.	FLK-T3000FC	31FN19

Find more thermal imagers for troubleshooting, diagnostic, and reporting applications on Grainger.com®.

Why Use Infrared?

Infrared thermography is the only diagnostic technology that helps you instantly visualize and verify thermal performance, detect potential electrical faults, and find hidden sources of water or air leaks. Thermal imaging cameras let you find problems and quantify them with precise non-contact temperature measurements. Use thermal images to document issues and your repairs, and to create professional reports to help you verify your work.



Professional Infrared Cameras



Spot Infrared Camera



Personal Infrared Camera

Thermal Imaging Camera for Smartphones

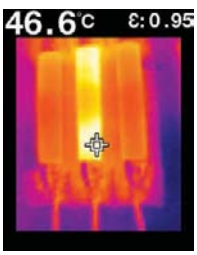
FLIR

Imagers attach to your smartphone to transform it into a powerful infrared camera. Features such as spot measurement tools, adjustable temperature controls, and a range of color palettes help pinpoint surface temperature differentials so you can identify potential problems. FLIR® proprietary Multi Spectral Dynamic Imaging (MSX®) enhancement adds visible spectrum detail, while VividIR™ image processing offers a 4X boost in resolution and clarity. The FLIR OneFit™ adjustable connector extends up to 4mm to fit many popular protective cases.

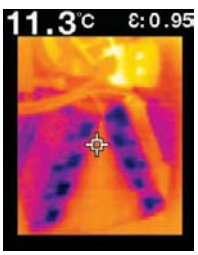
Temp. Range (F)	Temp. Range (C)	Detector Resolution	Thermal Sensitivity	Temp. Accuracy (F)	Spectral Response	Mfr. Model	Item No.
Compatible Smart Phones: iOS Devices							
-4° to 752°	-20° to 400°	160 x 120 Pixels	70 mK	±5°	8.0 to 14.0um	FLIR ONE PRO, iOS	**54JJ27**
-4° to 248°	-20° to 120°	80 x 60 Pixels	100 mK	±5°	8.0 to 14.0um	FLIR ONE PRO LT iOS	**491G87**
Compatible Smart Phones: Android Devices							
-4° to 752°	-20° to 400°	160 x 120 Pixels	70 mK	±5°	8.0 to 12.0um	FLIR ONE PRO, Android	**54JJ28**
-4° to 752°	-20° to 400°	160 x 120 Pixels	70 mK	±5°	8.0 to 14.0um	FLIR ONE PRO, Android	**54JJ29**
-4° to 248°	-20° to 120°	80 x 60 Pixels	100 mK	±5.0°	8.0 to 14.0um	FLIR ONE PRO LT USBC	**491G88**
-4° to 248°	-20° to 120°	80 x 60 Pixels	100 mK	±5°	8.0 to 14.0um	FLIR ONE PRO LT Micro USB	**491G89**



No. 54JJ27



ELECTRICAL
Warm Electrical Breaker and Normal Load



HVAC
Compressor Coils and Fan Motors



Automotive
Hot Break Rotors



No. 32MX58

Spot Infrared Cameras

FLIR

- Imaging enhances single-spot measurements
- IR detector resolution: 4800 pixels (60 x 80)
- 2" TFT color LCD (176 x 220 pixels)
- Laser pointer
- Adjustable emissivity
- Pistol grip style

Rugged, easy-to-use point-and-shoot cameras help reduce diagnostic time and simplify repair and maintenance operations. Quickly find hidden hot and cold spots for instant troubleshooting in commercial electrical, facility maintenance, HVAC, and similar applications. A spot temperature laser indicator instantly shows what's hot and where to aim; once you find a trouble spot, record images to show customers and include in reports.

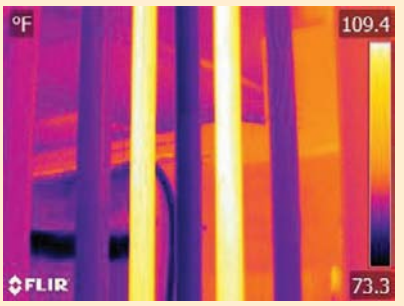
Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Field of View	Removable Memory Card	Data Logging	Calibration Certificate Included	Mfr. Model	Item No.
Infrared Visual Thermometers								
1 in @ 24 in	-13° to 716°	±2.0% or ±2.0°	50.0° Horizontal x 38.6° Vertical	8GB MicroSD	Yes	No	TG165	**32MX58**
1 in @ 24 in	-13° to 716°	±2.0% or ±2.0°	50.0° Horizontal x 38.6° Vertical	8GB MicroSD	Yes	Yes, NIST	TG165-NIST	**48FT95**
Infrared Cameras								
—	-13° to 716°	±1.0% or ±2.0° Whichever is Greater	57.0° Horizontal x 44.0° Vertical	No	No	No	TG267	**55KP99**
1 in @ 30 in	-13° to 752°	±1.0% or ±2.0° Whichever is Greater	—	—	No	No	TG297	**55KR01**
Cases and Holsters								
			Protective Case				TA13	**35KR05**
			Belt Holster				TA14	**35KR06**



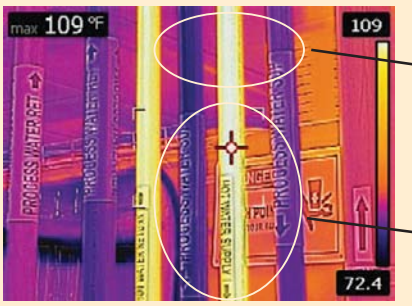
No. 55KP99

MSX® Technology Makes Infrared Imaging Affordable for Everyday Use

Multispectral dynamic imaging (MSX) makes it easier to interpret an infrared image by adding visual-spectrum detail—eliminating the need to refer back to a visual image. Visible edges are detected and added to the infrared image for extraordinary infrared detail that instantly highlights and orients problem locations. Text becomes clearly visible to read labels or identifiers within the image.



Hot Water Transfer Without MSX



Hot Water Transfer Pipes With MSX

Image detail orients the problem location

Visible text labels are easy to read

The infrared images shown are for illustrative purposes only, and may not have been taken by the camera series depicted.

E4, E5, E6, and E8 Infrared Cameras with Wi-Fi® Connectivity



No. 22UL83

- With MSX® Enhancement
- IR detector resolution up to 76,800 pixels (320 x 240)
- On-board 640 x 480 digital camera
- 3" color LCD
- Easy to use; weigh only 1.27 lb.

Diagnostic instructions capture and store simultaneous infrared (IR), visual, and MSX-enhanced image data as radiometric JPEGs. Feature spot measurement mode and blending function (Fusion).

Each includes FLIR Tools reporting software, USB cable, power supply/charger with 4 plugs, hard carrying case, and swappable rechargeable battery. NIST Certified models include calibration certificate.

Enhanced features on E6 and E8 models include level/span picture-in-picture image and area box measurement mode. E8 models also include an extra battery and external battery charger.

Temp. Range (F)	Temp. Accuracy (F)	Thermal Sensitivity	Detector Resolution	Picture In Picture	Focus Method	Removable Memory Card	Data Logging	NIST Certified	Mfr. Model	Item No.
Infrared Cameras										
-4° to 482°	±2.0% or ±3.6° Whichever is Greater	150 mK	80 x 60 Pixels	No	Auto	No	Yes	No	FLIR E4	**22UL83**
-4° to 482°	±2.0% or ±3.6° Whichever is Greater	150 mK	80 x 60 Pixels	No	Auto	No	Yes	Yes	FLIR E4-NIST	**22UL84**
-4° to 752°	±3.6°	150 mK	160 x 120 Pixels	Yes	Auto	Yes	Yes	No	FLIR E5-XT WiFi	**54ZW44**
-4° to 1022°	±3.6°	60 mK	240 x 180 Pixels	Yes	Auto	Yes	Yes	No	FLIR E6-XT WiFi	**54ZW45**
-4° to 1022°	±3.6°	50 mK	320 x 240 Pixels	Yes	Auto	Yes	Yes	No	FLIR E8-XT WiFi	**54ZW46**

Training



No. 2PZE7



No. 3EMK9



No. 3EML1

Thermal imaging professionals can learn to get the most out of their equipment at the Infrared Training Center (ITC), the world's largest dedicated IR applications training organization. ITC courses from beginner (Level I), to seasoned professional (Level III), lead to certification accepted by NETA (InterNational Electrical Testing Association), an ANSI standards developer.

Item	Item No.
For All Infrared Cameras Regardless of the Manufacturer	
Level I Certification Training	**2PZE7**
Level II Certification Training	**3EMK9**
Level III Certification Training	**3EML1**

Accessories



No. 423N33



No. 48GE75



No. 423N29



No. 460X55

Accessories

Item	For Use With	Features	Mfr. Model	Item No.
Battery	FLIR Ex Series Cameras	—	T199362ACC	**22UL70**
Battery Charger	FLIR T5xx Series	External Battery Charger Lets You Charge A Battery While Using The Camera So That You Never Run Out of Battery Power	T199610	**423N33**
	FLIR Ex Series	Battery Charger	T198531	**22UL71**
	FLIR K2	Power Supply with 4 Multi-Plugs US, EU, UK, AU	T199128	**48GE76**
	FLIR T5xx Series and IR	High Capacity	T199300ACC	**423N32**
Battery Charger, Incl. Power	—	Stand-alone 2-bay battery charger	T198125	**22DD12**
Car Charger	FLIR E series, K2, C2, C3	—	T198532	**22UL72**
Infrared Lens	FLIR T5xx, FLIR Exx Series	Interchangeable Auto Cal Lens 14 Degrees, Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage	T199588	**423N29**
	FLIR T5xx, FLIR Exx Series	Interchangeable Auto Cal Lens 24 Degrees, Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage	T199589	**423N31**
Lens	Mfr. No. T1010, T1020, T1030SC, T1040, T1050SC	—	T199077	**460X55**
	Mfr. No. T1010, T1020, T1030SC, T1040, T1050SC	—	T199066	**460X56**
Li-Ion Rechargeable Battery	FLIR K45, FLIR K55, FLIR K65	3.6V, 4.4Ah	T199368ACC	**48GE68**
	FLIR K Series	3.6V, 2.6Ah	T199423ACC	**48GE75**
Wide Angle Infrared Lens	FLIR T5xx, FLIR Exx Series	Interchangeable Auto Cal Lens 42 Degrees, Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage	T199590	**423N30**

Advanced Features for Commercial and Industrial Thermography



MPEG-4 and video streaming to Apple® and Android™ mobile devices; video recording to SD card



METERLiNK™-enabled to send data to Infrared Camera



High-resolution touch screen

E Series Wireless Professional Infrared Cameras with MSX®

FLIR

- METERLiNK™ enabled
- Up to 464 x 348 IR detector resolution (76,800 pixels)
- 5 MP digital camera with LED lamp
- 4" high-contrast touch-screen color LCD
- Simultaneous IR and visual image storage (MSX)
- GPS and compass

Higher performing point-and-shoot imagers have 30 Hz image frequency to capture moving targets. They feature radiometric IR video streaming (MPEG-4) and on-screen temperature difference (delta T). Professional analysis software package integrates seamlessly with the camera for easy downloads, quick reporting, and camera firmware updates in the field. Connect wirelessly to an Apple® or Android™ mobile device to instantly send infrared images or reports via email. Each includes SD card, USB cables, universal power adapter, 2 rechargeable batteries, battery charger with power supply, and hard carrying case.

Industrial/Predictive Maintenance— Cameras offer superior resolution and range performance needed to quickly identify hot spots and discover potential points of failure in electrical distribution and mechanical systems.

Building Diagnostic/Restoration— Cameras offer superior sensitivity to detect even subtle indications of building deficiencies and moisture intrusion.





MPEG-4 and video streaming to Apple® and Android™ mobile devices; video recording to SD card

Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Image Notation	Focus Distance	Picture In Picture	Laser Sighting	Mfr. Model	STANDARD Item No.	NIST Item No.
-4° to 1200°	40 mK	320 x 240 Pixels	Sketch, Text Annotation and Voice Annotation	Minimum of 0.50m	Yes	Yes	FLIR E75-24	**53PW96**	**53PW97**
-4° to 2192°	40 mK	380 x 280 Pixels	Sketch, Text Annotation and Voice Annotation	Minimum of 0.50m	Yes	Yes	FLIR E85-24	**53PW98**	**53PW99**
-4° to 2732°	40 mK	460 x 340 Pixels	Sketch, Text Annotation and Voice Annotation	Minimum of 0.50m	Yes	Yes	FLIR E95-24	**53PX01**	**53PX02**
-4° to 1200°	40 mK	240 x 180 Pixels	Text Annotation	Minimum of 0.15m	Yes	Yes	FLIR E53	**457A81**	—
-4° to 1202°	30 mK	320 x 240 Pixels	Sketch, Text, Voice	Minimum of 0.15m	Yes	Yes	FLIR E75-42	**485C85**	—
-4° to 1202°	50 mK	320 x 240 Pixels	Sketch, Text, Voice	Minimum of 1.00m	Yes	Yes	FLIR E75-14	**485C84**	—
-4° to 2192°	50 mK	384 x 288 Pixels	Sketch, Text, Voice	Minimum of 1.00m	Yes	Yes	FLIR E85-14	**485C86**	—
-4° to 2192°	30 mK	384 x 288 Pixels	Sketch, Text, Voice	Minimum of 0.15m	Yes	Yes	FLIR E85-42	**485C87**	—
-4° to 2732°	50 mK	464 x 348 Pixels	Sketch, Text, Voice	Minimum of 1.00m	Yes	Yes	FLIR E95-14	**485C88**	—
-4° to 2732°	30 mK	464 x 348 Pixels	Sketch, Text, Voice	Minimum of 0.15m	Yes	Yes	FLIR E95-42	**485C89**	—

FLIR

Infrared Guided Measurement™ (IGM) Technology

IGM-enhanced tools use thermal imaging to quickly pinpoint potential problems, to help you work faster and get on to the next job.

DM166 and DM285 Imaging DMMs—Feature-packed multimeters are ideal for troubleshooting and diagnosing complex issues in high- and low-voltage applications.

CM275 Imaging Clamp Meter—This 600A true RMS AC/DC clamp meter visually guides you to anomalies and helps you see the potential hazards. For details, see page 542.

MR160 Imaging Moisture Meter—The thermal imaging sensor helps you quickly see temperature patterns associated with possible hidden moisture, so you know the best place to put the meter probe to capture accurate readings. For details, see Grainger.com®.

MR176 Imaging Moisture Meter—As you seek hidden moisture, IGM and an integrated laser and crosshair mark the precise spot for further testing and investigation. For details, see Grainger.com®.



No. 444M20



No. 444M24



No. 444M26



No. 38YJ14



No. 38YJ15

Item	Includes	Interface	Calibration Certificate	Data Hold	Battery Type	Mfr. Model	Item No.
Digital Multimeter	Test Leads, Soft Case, (3) Batteries	None	No	Yes	AA Alkaline	DM166	**444M20**
Wireless Digital Multimeter	Test Leads, Alligator Clips, Type K Bead Probe, Test Lead Holder, Tripod Accessory, Soft Case, (3) Batteries	Bluetooth	No	Yes	AA Alkaline	DM285	**444M24**
Wireless Clamp Meter Module	Test Leads, Soft Carrying Case, (3) Lithium Batteries	—	No	Yes	AA	CM275	**444M26**
Thermal Imaging Moisture Meter	External Pin Probe, USB Cable, Universal USB Charger with AC Socket Adapters, Quick Start Guide and User Manual/CD	USB	No	No	Li-ion Rechargeable	MR160	**38YJ14**
Thermal Imaging Moisture Meter	External Pin Probe, USB Cable, Temperature/RH Sensor, Universal USB Charger with AC Socket Adapters, Quick Start Guide and User Manual/CD	USB	No	No	Li-ion Rechargeable	MR176	**38YJ15**

For more information on FLIR® infrared cameras, see page 606.



FLIR

T Series High-Performance Infrared Cameras with MSX®



No. 423N27



No. 40ZJ89

Articulating thermal imagers have quick-capture mode and intuitive, easy-to-use touch screen controls. Rigorous inspection requirements are aided by high-performance features: voice, text, and drawn comments annotate images. FOV Match automatically adjusts the digital camera field of view to the IR image field. Compass adds the camera-pointing direction to every image.

Professional reporting software manages large amounts of images and data before generating reports. The imagers can stream video via Wi-Fi® direct to an Apple® or Android™ mobile device for field analysis, reporting, and collaboration via PDF or email.

Each includes 25° lens, lens cap, 2-bay charger, FLIR Tools analysis software, video and USB cables, SD memory card, Bluetooth® headset (T1K Series), hand strap, neck strap, hard carrying case, power supply, and 2 rechargeable batteries.

Building Diagnostic/Restoration models have built-in RH/dew point alarm that displays areas with risk of surface condensation where mold could occur, and an insulation alarm to identify areas that don't fulfill insulation requirements.

Industrial/Predictive Maintenance models provide wide temperature ranges that meet the needs of thermographers conducting electrical and mechanical inspections.

T500 Series—Lightweight cameras feature maximum flexibility and efficiency for both builidng and industrial applications.

- IR detector resolution: up to 161,472 pixels (464 x 348)
- UltraMax™ super resolution using FLIR Tools software
- 5 MP digital camera with built-in LED light
- 4" touch screen color LCD
- Built-in microphone and speaker
- Laser distance meter with area measurement
- Meterlink™ enabled

T1K Series—Provide the highest resolution to measure small targets from long distances. Feature manual and autofocus. Interchangeable and articulating lenses. Flexible ergonomics allow the lens to be pointed to the target and the display or viewfinder tilted to your eye.

- 1% accuracy within limited temperature range
- IR detector resolution: 786, 432 pixels (1024 x 768)
- UltraMax™ resolution™: 3,145,728 pixels (2048 x 1536)
- FLIR's Precision Point™ True HD lenses with ultrasonic motor
- FLIR's Precision Point™ HD optics together with 1K resolution provide unmatched temperature accuracy of small targets from a distance
- 4.3" touchscreen color LCD

Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Field of View	Focus Distance	Focus Method	Multiple Lens Option	STANDARD Mfr. Model	STANDARD Item No.	NIST Mfr. Model	NIST Item No.
FLIR T500 Series										
-4° to 1202°	30 mK	464 x 348 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	FLIR T540-42	**485C93**	—	—
	40 mK	320 x 240 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.50m	Auto and Manual	Yes	—	—	FLIR T530-NIST	**423N26**
	50 mK	464 x 348 Pixels	11.5° Horizontal x 8.7° Vertical	Minimum of 1.00m	Auto and Manual	Yes	FLIR T540-14	**485C92**	—	—
-4° to 2732°	30 mK	320 x 240 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	FLIR T530-42	**485C91**	—	—
	40 mK	464 x 348 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	FLIR T540	**423N27**	FLIR T540-NIST	**423N28**
	40 mK	320 x 240 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.50m	Auto and Manual	Yes	FLIR T530	**423N25**	—	—
	50 mK	320 x 240 Pixels	11.5° Horizontal x 8.7° Vertical	Minimum of 1.00m	Auto and Manual	Yes	FLIR T530-14	**485C90**	—	—
FLIR T600 Series										
-4° to 950°	40 mK	640 x 480 Pixels	11.5° Horizontal x 8.7° Vertical	Minimum of 1.00m	Auto and Manual	Yes	89201-0101	**55KR02**	—	—
	40 mK	640 x 480 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	89202-0101	**55KR03**	—	—
	40 mK	640 x 480 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	89203-0101	**55KR04**	—	—
	40 mK	640 x 480 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15m	Auto and Manual	No	89204-0101	**55KR05**	—	—
	40 mK	640 x 480 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	89205-0101	**55KR06**	—	—
	40 mK	640 x 480 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	89206-0101	**55KR07**	—	—
	40 mK	640 x 480 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	Auto and Manual	Yes	89207-0101	**55KR08**	—	—
-40° to 662°	40 mK	480 x 360 Pixels	25.0° Horizontal x 19.0° Vertical	Minimum of 0.25m	Auto and Manual	Yes	FLIR T600BX	**32MX56**	—	—
-40° to 1202°	40 mK	640 x 480 Pixels	25.0° Horizontal x 19.0° Vertical	Minimum of 0.25m	Auto and Manual	Yes	FLIR T620	**6FYE7**	FLIR T620	**6FYE8**
	40 mK	480 x 360 Pixels	25.0° Horizontal x 19.0° Vertical	Minimum of 0.25m	Auto and Manual	Yes	FLIR T600	**32MX55**	—	—
-40° to 3632°	20 mK	640 x 480 Pixels	25.0° Horizontal x 19.0° Vertical	Minimum of 0.25m	Auto and Manual	Yes	FLIR T660	**48FT89**	—	—
	35 mK	640 x 480 Pixels	25.0° Horizontal x 19.0° Vertical	Minimum of 0.25m	Auto and Manual	Yes	FLIR T640	**30Z969**	FLIR T640	**30Z970**
FLIR T1000 Series										
-40° to 1202°	25 mK	1024 x 768 Pixels	28.0° Horizontal x 21.0° Vertical	Minimum of 0.40m	Auto and Manual	Yes	FLIR T1010-28	**460X54**	—	—
-40° to 3632°	20 mK	1024 x 768 Pixels	28.0° Horizontal x 21.0° Vertical	Minimum of 0.40m	Auto and Manual	Yes	FLIR T1020	**40ZJ89**	FLIR T1020-NIST	**40ZJ90**

No. 54ZY92



FLIR

T840 Infrared Camera with Viewfinder

- Detector resolution 640 x 480 Pixels
- Field of view 12.5° Horizontal x 12.5° Vertical
- Auto and manual Focus

T840 infrared camera is designed to help electric utility and other thermography professionals survey equipment both indoors or outdoors and seek out signs of failure. An integrated eyepiece viewfinder and a bright 4-inch color LCD display, the T840 makes it easy to conduct inspections outside in bright, challenging light conditions. The 180° rotating lens platform and ergonomic design helps diagnose failing components in hard-to-reach areas.

Temp. Range (F)	Thermal Sensitivity	Includes	Focus Distance	NIST Certified	Mfr. Model	Item No.
FLIR EX Series						
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 14° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 1.00m	No	FLIR T840-14	**54ZY92**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 24° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 0.50m	No	FLIR T840-24	**54ZY93**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, Power Supplies, SD Card, (3) USB Cables, Tools	Minimum of 0.50m	Yes	FLIR T840-24-NIST	**54ZY94**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap,42° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 0.15m	No	FLIR T840-42	**54ZY95**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 14°/24° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 0.50m	No	FLIR T840-24-14	**54ZY96**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 24°/42° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 0.50m	No	FLIR T840-24-42	**54ZY97**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 14°/24°/42° Lens, Power Supplies, SD Card, (3) USB Cables	Minimum of 0.50m	No	FLIR T840-24-14-42	**54ZY98**
-10° to 1000°	30 mK	(2) Batteries, Battery Charger, Hard Case, Lanyard, Front Lens Cap, 14°/42° Lens Power Supplies, SD Card, (3) USB Cables	Minimum of 0.15m	No	FLIR T840-42-14	**54ZY99**

FLIR

K Series Thermal Imaging Cameras

- Dropproof to 6.5 ft./2m
- Easy-to-use in a firefighter's gloved hand

Expanded lineup of thermal imaging cameras (TICs) features Flexible Scene Enhancement (FSX®) to give you sharp, detailed views of firefighting scenes, from inside, outside, and above the fire—even through thick smoke.

FLIR K1, K2, K33, and K53 Powerful TICs—Standard-issue TICs designed for every firehouse. Provide each crew member with an affordable camera so everyone has the essentials for working faster and safer.

FLIR K45, K55, and K65 High-Performance TICs—High-performance cameras with FSX enhancement offer detailed, rich imagery on a large, bright 4" LCD. Navigate the smokiest environments and instantly distinguish people, room features, and make critical decisions in the field.



No. 48GE64



No. 48GE63

Temp. Range (F)	Temp. Range (C) - Infrared	Display Resolution	Thermal Sensitivity	Frame Rate	Special Features	Mfr. Model	Item No.
Powerful							
Designed to Meet NFPA 1801:2013, Power Supply Meets CE/EN/UL/CSA/PSE 60950-1							
14° to 113°	-10° to 45°	320 x 240 Pixels	100 mK	9 Hz	Pocket Portable, Attaches Easily to Belt	K1	**55CH82**
-4° to 932°	-20° to 500°	320 x 240 Pixels	100 mK	9 Hz	MSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K2	**48GE63**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	40 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K33	**485C94**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K53	**485C95**
High Performance							
Certified to NFPA 1801:2013, Meets Class I Division 2 Gas Groups C and D T4, Power Supply meets CE/EN/UL/CSA/PSE 60950-1							
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, In Camera Up to 5 Min. Video Storage, Manually Store 200 Images, IP67 Waterproof	K65	**48GE66**
Designed to Meet NFPA 1801:2013, Power Supply Meets CE/EN/UL/CSA/PSE 60950-1							
-4° to 1202°	-20° to 650°	320 x 240 Pixels	40 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof, Manually Store 200 Images	K45	**48GE64**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, In Camera Up to 5 Min. Video Storage, Manually Store 200 Images, IP67 Waterproof	K55	**48GE65**



IR windows support safe infrared image capture and NFPA compliance with FLIR or competitive cameras



Visible light is clearly transmitted to capture visual as well as infrared images (LED lamps recommended)



IR windows can be used indoors or outdoors and support Laser LocatIR targeting

FLIR

Infrared Inspection Windows

- Broadband crystal is compatible with all infrared cameras and UV, visual, and fusion inspections
- Can be mounted on steel and Lexan® panels
- Indoor and outdoor use

Constructed to make thermographic inspection of energized electrical systems as fast and safe as possible, without added expense. Arc-resistant to protect against arc flash incidents. Visible light is transmitted clearly for image capture, although LED lamps are recommended for optimal results. Laser LocatIR targeting is supported for precise data collection.

Each is complete with IR window in an aluminum or stainless steel frame with a hinged cover and calcium fluoride lens. PIRma-lock™ installation system secures the window assembly safely in place. Permanent identification can be marked on the integrated label area for reference. Limited lifetime warranty against manufacturer defects.

No. 11Y559





No. 493N53

Crystal Insert Size	Window Thickness	Aluminum Mfr. Model	Aluminum Item No.	Stainless Steel Mfr. Model	Stainless Steel Item No.
Round Infrared Window					
50 mm dia	2mm	IRW-2C	**11Y558**	IRW-2S	**30ZY73**
75 mm dia	2mm	IRW-3C	**11Y559**	IRW-3S	**30ZY74**
95 mm dia	4mm	IRW-4C	**11Y560**	IRW-4S	**30ZY75**
Rectangle Infrared Window					
206 mm H x 305 mm W	3mm	IRW-12PC	**493N50**	IRW-12PS	**493N53**
218 mm H x 160 mm W	3mm	IRW-6PC	**493N49**	IRW-6PS	**493N52**
218 mm H x 610 mm W	3mm	IRW-24PC	**493N51**	IRW-24PS	**493N54**

Fluke Connect® the largest system of software and wireless test tools in the world



All the facts, right in the field. Start saving time with Fluke Connect.®

©2015 Fluke Corporation. All trademarks are the property of their respective owners. Wi-Fi or cellular service required to share data. Smart phone, wireless service and data plan not included with purchase. First 5GB of storage is free. Phone support details can be viewed at fluke.com/phones. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc. 6/2015 6005622a-en.

Fluke Connect®, the largest system of software and wireless test tools in the world.

The Fluke Connect® system of over 30 wireless tools helps you:

Increase the safety of your team. Reduce your team's exposure to safety hazards such as arc flashes and running motors by connecting tools to your equipment that allow you to transmit measurements wirelessly.

Save time and money and increase productivity by creating reports in the field and sending them to any team member's smartphone or computer for immediate diagnosis.

The growing system of Fluke Connect wireless tools includes:

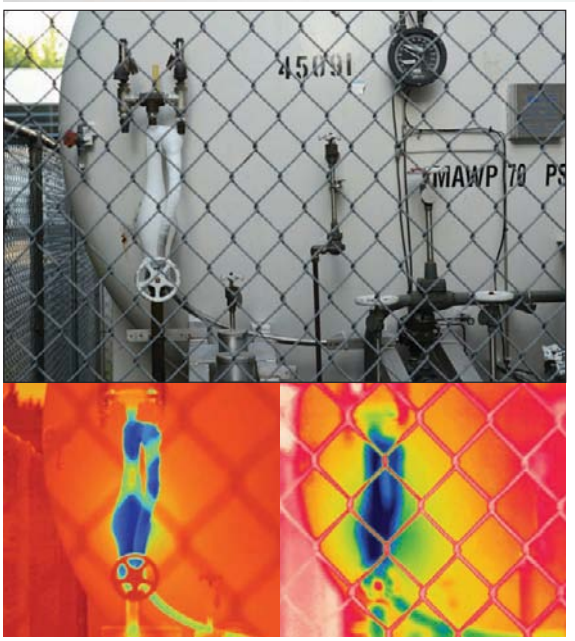
- Infrared cameras
- Vibration meters
- Digital multimeters
- Current meters
- Voltage meters

Learn more at **grainger.com/flukeconnect**

Download on the App Store

ANDROID APP ON Google play

FLUKE®



Exclusive to Fluke, LaserSharp® Auto Focus with a built-in laser distance meter clearly captures your designated target—in this series, the valve that is behind the fence.



No. 31FN04

FLUKE® FLUKE CONNECT

Infrared Camera Kits

Quickly identify, diagnose, and communicate problems directly from the field using Fluke Connect® with these dynamic infrared camera kits.

Description	Includes	Mfr. Model	Item No.
Fluke Ti400 a3001 FC iFlex® Kit	3000FC Multimeter, A3001FC iFlex Module, AC Power Adapter, Lithium Ion Smart Battery, USB Cable, SD Memory Card, Hard Carrying Case, Soft Transport Bag, Adjustable Hand Strap (Left or Right-Handed Use), Users Manual, Smartview Software, Warranty Registration Card	FLK-TI400 60HZ/FCA	**31FN04**



No. 460J47



No. 460J48

Fixed Location Infrared Cameras

FLUKE.

Cameras are designed to be permanently installed and have an output designed to be viewed on a computer or monitor. Instruments use a single detector that, by itself, is limited to measuring the temperature at only one point.

Temp. Range (F)	Detector Resolution	Field of View	Thermal Sensitivity	Focus Distance	Mfr. Model	Item No.
-10° to 1000°	320 x 240 Pixels	34.0° Horizontal x 24.0° Vertical	30	Minimum of 0.15m	RSE300 60 Hz	**460J47**
-10° to 1000°	640 x 480 Pixels	34.0° Horizontal x 24.0° Vertical	40	Minimum of 0.15m	RSE600 60 Hz	**460J48**

Look for this icon for Fluke Connect® wireless-enabled tools. Learn more about Fluke Connect on page 610 or at grainger.com/fluke

Twice the Resolution with Rugged Versatility





Get **improved resolution** that delivers the right image quality you need to make the proper diagnosis with up to 2.5 times more pixels and 70% better D:S (compared to the Fluke Ti125 Infrared Camera).



IR-Fusion® Technology
The instant blending of visible light and infrared, along with Picture-in-Picture mode, easily reveal both problem and location.

Reduce the amount of time it takes to get an in-focus image with manual or point-and-shoot fixed focus options.



No. 40PC42



No. 56GY09



No. 55NL87

FLUKE.

Performance Series Infrared Cameras

See issues with blended IR and visual images. The 5MP visual camera delivers up to 2.5 times more infrared pixels and a 3.5" LCD. Precise focus as close as 15 cm (6") with manual focus version. Fluke renowned diagnostic tools such as Fluke Connect® and SmartView® software included for data sharing, storage, in-depth analysis, and reporting.

Temp. Range (F)	Thermal Resolution	Thermal Sensitivity	IR Detector Resolution	Focus Distance	Focus Method	Picture In Picture	Removable Memory Card	Special Features	Mfr. Model	Item No.
-4° to 662°	10,800 Pixels	100	120 x 90 Pixels	Minimum of 0.45m	Fixed	No	No	One Touch Gallery, Instant Upload to Fluke Cloud, Connects to Fluke FC 3000 Wireless Series, 5 Mega Pixel Visible Camera, Spot Markers, Reflected Background Compensation	FLK-TIS20 9HZ	**40PC42**
-4° to 302°	—	60	120 x 90 Pixels	Minimum of 0.50m	Manual	No	Yes	IR Fusion, Asset Tagging	FLK-TIS20+ 9HZ	**56GY09**
-4° to 752°	76,800 Pixels	—	320 x 240 Pixels	Minimum of 46cm	Fixed	Yes	Yes	Fluke Connect™ compatibility for sharing wirelessly	FLK-TIS60+ 30HZ	**55NL87**

IR-Fusion® vs. Picture-In-Picture

IR-Fusion® technology is the precise alignment of the infrared and digital images taken by a Fluke® IR camera to quickly and accurately troubleshoot a scene by fusing the infrared and digital images. This powerful functionality is the basis for Fluke's AutoBlend™ mode, which allows adjustable transparency of the infrared image, thereby facilitating easy documentation and communication of the problem spot.

Compatible with the Fluke Connect® software



FlukeTi480 PRO
No. 453C43



No. 55JJ98



Fluke TI401 PRO
No. 54XY46

FLUKE. FLUKE CONNECT

Professional Series Infrared Cameras

- IR detector resolution up to 307,200 pixels (640 x 480)
- 640 x 480, 3.5" touch screen color LCD
- IR-Fusion® technology with AutoBlend™

Designed for professional thermographers and maintenance managers, with LaserSharp® autofocus, which uses a built-in laser distance meter to pinpoint the target and precisely focus the image. 5 MP digital camera with autofocus, except No. 54XY46 is 0.3 MP.

Temp. Range (F)	Infrared Sensitivity	IR Detector Resolution	Field of View	IR-Fusion®	Focus Method	Image Notation	File Formats	Mfr. Model	Item No.
-14° to 1832°	50 mK	640 x 480 Pixels	24.0° Horizontal x 17.0° Vertical	Yes	Auto and Manual	Voice Annotation	BMP, GIF, JPEG, PNG, TIFF	FLK-Ti480 PRO 60HZ	**453C43**
-4° to 1202°	75 mK	640 x 480 Pixels	34.0° Horizontal x 26.0° Vertical	Yes	Auto and Manual	Text	BMP, JPEG, IS2	FLK-TI401-PRO 60HZ	**54XY46**
-4° to 1202°	75 mK	320 x 240 Pixels	34.0° Horizontal x 24.0° Vertical	Yes	Auto and Manual	Sketch, Text, Voice	JPEG	FLK-TI300+ 60HZ	**55JJ98**

Description	Features	Mfr. Model	Item No.
Accessories			
Telephoto Lens	12° x 9°, Minimum Focus Distance of 6"	FLK-LENS/TELE2	**30ZY63**
Wide Angle Infrared Lens	46° x 34°, Minimum Focus Distance of 6"	FLK-LENS/WIDE2	**30ZY64**
Sun Visor	Enhances Screen Visibility	FLK-TI-VISOR3	**30ZY65**
Tripod Mount	Accessible with Standard Tripod	FLK-TI-TRIPOD3	**30ZY66**



FLUKE.

Ti450 SF6 Gas Leak Detector

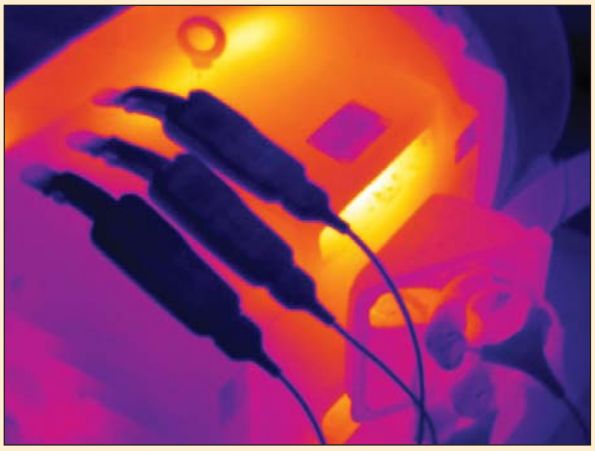
- 320 x 240 resolution for gas and infrared images
- SuperResolution increases to 640 x 480, only in infrared mode

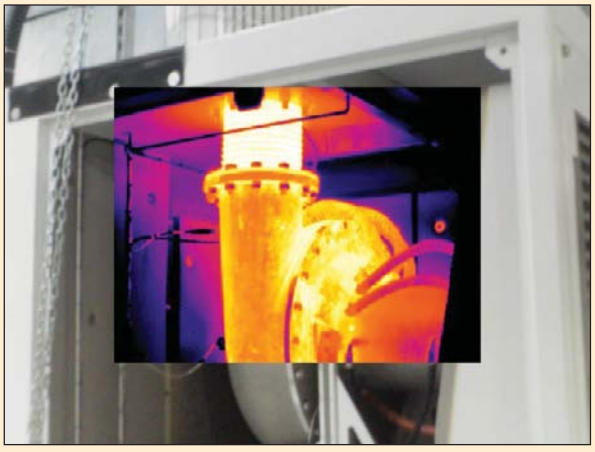
Delivers pinpoint, state-of-the-art SF6 leak detection when you need it without shutting down equipment. 2-tools-in-1—toggles between gas imaging and infrared mode to increase efficiency and save money. Features LaserSharp® auto focus for in-focus images. Includes SmartView® desktop software to optimize images, perform analytics, generate reports, and export images.

Note: NIST models are available; call 1-800-GRAINGER (472-4643) or see Grainger.com®.

Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Focus Method	Mfr. Model	Item No.
-4° to 2192°	25 mK	320 x 240 Pixels	Auto	FLK-TI450 SF6 60HZ	**406D33**

Enhanced Image Quality and Temperature Measurement Accuracy





Enhanced image quality and temperature measurement accuracy turn your 320 x 240 images—4x the resolution and pixels— with **SuperResolution.**



Easily navigate over, under, and around objects with the only full **180° articulating lens** and see the image before you capture it.

Quick and easy in-field analysis with **IR-Fusion® technology** and advanced touchscreen functions.



FLK-TIX580
No. 406D31



FLK-TIX501
No. 54XY47

FLUKE

Expert Series Infrared Cameras

- IR detector resolution up to 307,200 pixels (640 x 480)
- 640 x 480, 5.7" touch-screen color LCD

Cameras have a 240° rotating screen that minimizes glare and makes it easy to capture images when equipment is in awkward or hard-to-reach areas. Compatible with Fluke Connect®, so you can connect your cameras to the largest network of wireless test and measurement tools. No. 406D31 has on-camera SuperResolution feature that allows you to create a 1280 x 960 resolution image from your original 640 x 480 image, with 4x the pixel data.

Temp. Range (F)	Infrared Sensitivity	Detector Resolution	Focus Distance	Focus Method	Picture In Picture	Removable Memory Card	Includes	Mfr. Model	Item No.
-4° to 1472°	50 mK	640 x 480 Pixels	Minimum of 0.15m	Auto	Yes	Micro SD	AC Power Supply, Battery Pack Charger, Universal AC Adapter, (2) Lithium-Ion Smart Battery Packs, USB Cable, HDMI Video Cable, Hard Carrying Case, Neck and Hand Strap, Bluetooth Headset, Fluke Connect SmartView Desktop Software Download	FLK-TIX580	**406D31**
-4° to 1202°	75 mK	640 x 480 Pixels	Minimum of 0.15m	Auto and Manual	Yes	Yes	AC Power Supply, Battery Pack Charger, (2) Batteries, USB Cable, HDMI Cable, Micro SD Card, Hand Strap, Case, Transport Bag	FLK-TIX501 60HZ	**54XY47**
-4° to 302°	60 mK	120 x 90 Pixels	Minimum of 0.22m	Fixed	No	No	USB Cable, Lanyard, Transport Bag	FLK-PTI120 9HZ	**54XY48**
Accessories									
Neck Strap								FLK-NECKSTRAP	**38RX07**
Smart Battery Pack								FLK-SBP4	**38RX08**
Hand Strap								FLK-HANDSTRAP	**38RX09**
Bluetooth Head Set								FLK-BLUETOOTH	**38RX10**



No. 23NT21
Fluke CV200



No. 23NT24
Fluke CV301

FLUKE.

ClirVu® Infrared Inspection Windows

Windows install quickly to provide fast, safe access for electrical infrared inspections. Full personal protective equipment may not be required, making inspections more comfortable to conduct. Can provide free access with a convenient hand-turn latch or security-keyed controlled access.

	Fluke-CV400	Fluke-CV401	Fluke-CV300	Fluke-CV301	Fluke-CV200
Size	100mm (4")		75mm (3")		50mm (2")
General					
Voltage Range	Any				
NEMA Environemental Type	Type 4/12 (Indoor/Outdoor)				
AutoGround™	Yes				
ClirVu® Optic	Yes				
Operating Temperature	-40°C to +232°C (-40°F to +450°F) and +260°C (500°F) Intermittent				
Body Material	EZAC & ZA-27 High Strength Zinc/Aluminum Alloy				
Ratings and Testing					
ARC-Tested (IEEE C.37.20.7)	63 kA for 30 Cycles @60Hz at KEMA				
UL 50V Component Recognition	Yes				
UL 50/NEMA Environmental Rating	NEMA Type 4/12				
UL 1558	Yes				
CSA C22.2 No.	Yes				
CSA Type Rating	Type 4				
IP Rating	IP67 at TUV				
Lloyds Register	Up to 11kV Marine Switchgear, Indoor or Outdoor (offshore only)				
Vibration Rating	IEC60068-2-6 at TUV				
Humidity Rating	IEC60068-2-3 at TUV				
Install					
Actual Mounting Hole Dia. Required	115.42 mm (4.544")		89.99 mm (3.539")		61.37 mm (2.416")
Greenlee Punch Kit=Punch/Die	742BB=2984AV/2983AV		739BB=1431AV/1432AV		76BB=441AV/442AV
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn
Optics					
Optic Insert Dia.	100mm (3.74")		75mm (2.96")		50mm (1.97")

Description,	Crystal Insert Size	Viewing Aperture Size	Window Thickness	Mfr. Model	Item No.
4" Infrared Window, Hand Turn Door Latch	100 mm dia	89 mm dia	4mm	Fluke-CV400	**23NT25**
4" Infrared Window, Security Key Door Latch	100 mm dia	89 mm dia	4mm	Fluke-CV401	**23NT26**
3" Infrared Window, Hand Turn Door Latch	75 mm dia	68 mm dia	2mm	Fluke-CV300	**23NT23**
3" Infrared Window, Security Key Door Latch	75 mm dia	68 mm dia	2mm	Fluke-CV301	**23NT24**
2" Infrared Window, Hand Turn Door Latch	50 mm dia	45 mm dia	2mm	Fluke-CV200	**23NT21**
3" Round Infrared Window, Access Key and Installation Instructions on a CD Latch	75 mm dia	68 mm dia	2mm	Fluke-075-CLKT	**4LHD1**
4" Round Infrared Window, Access Key and Installation Instructions on a CD Latch	100 mm dia	89 mm dia	4mm	Fluke-100-CLKT	**4LHD2**



No. 45CT87
Telephoto Lens



No. 45CT88
Infrared Lens



No. 4JNW6
Smart Battery Pack



No. 13T384
Tripod Holder



No. 13T385
Sun Visor

FLUKE.

Infrared Camera Accessories

Accessories and training are matched to Fluke® P3 Series and Ti100 Series infrared cameras (page 612).

Description	For Use With	Mfr. Model	Item No.
4X Telephoto Lens	Fluke Ti450, Fluke Ti450 SF6, Fluke TiX500	FLK-LENS/4XTELE2	**45CT87**
Infrared Lens	Fluke Ti300, Fluke Ti400, Fluke Ti450 SF6, Fluke Ti480, Fluke TiX500, Fluke TiX520, Fluke TiX560, Fluke TiX580	FLK-TI EYEPIECE	**444M04**
Macro Lens	Fluke Ti450 SF6, Fluke TiX500	FLK-LENS/25MAC2	**45CT88**
Smart Battery Pack	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480	Fluke-TI-SBP3	**4JNW6**
Sun Visor	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480	FLK-TI-VISOR2	**13T385**
Tripod Holder	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480	FLK-TI-TRIPOD2	**13T384**

Get More Online

From **hard hats**, **respirators**, and **gloves** to **earplugs**, **coveralls**, and **fall protection**, count on Grainger for the **Personal Protective Equipment (PPE)** to cover your crew from head to toe.

Make **Grainger.com®** your PPE guide to resources, services, and training.
Go to **Grainger.com/ppe**



Dual-Laser Infrared Thermometer

Offers a wide measurement range, a tight distance-to-spot ratio, dual targeting lasers, and several calculation modes to facilitate different temperature measurement applications. In addition to measuring temperature using IR emission, it can also measure temperature using a standard K-type probe.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
Klein Tools										
1 in @ 20 in	-40° to 1202°	±1.5% of Reading or ±1.5° Whichever is Greater	Adjustable 0.10 to 1.00	Custom Pouch, K-Type Probe, 9V Battery	Dual	9V	Yes	No	IR10	**616J64**

Thermal Imager and Infrared Inspection Windows

CorDEX

Panel Mounted Thermal Imager—The panel mounted thermal imager incorporates dual vision; thermal and visual cameras which captures fully radiometric data every second. Don't spend time traveling from location to location, log into your MN4000 remotely and inspect your electrical assets from your office using it's on board web server or using the dedicated MONITIR software.

Infrared Inspection Windows—Intelligent inspection windows provide protected access to help comply with NFPA 70E safety standards. Embedded RFID tag and barcode communicate with CorDEX CONNECT™-enabled devices and smartphones to automatically correct for transmission loss. Unlimited voltage range. NEMA Type 3, 12, 4 and IP65 for indoor and outdoor use.

- **Broadband crystal operates with any visual, IR, or ultraviolet camera**
- **Spring-loaded cover; ¼ turn to open**
- **Supplied ready-to-install; no gasket fitting required**

Temp. Range (F)	Thermal Sensitivity	Display Resolution	Field of View	Focus Distance	Picture In Picture	Temp. Accuracy (F)	Mfr. Model	Item No.
Fixed Location Infrared Cameras								
14° to 248°	50 mK	640 x 480 Pixels	50.0° Horizontal x 39.0° Vertical	Minimum of 0.40m	Yes	±2.0% or ±2.0°	MN4000	**52XP36**

Crystal Insert Size	Viewing Aperture Area	Mfr. Model	Item No.
Cordex Infared Windows			
50 mm dia	1590 sq. mm	IW2000	**44ZN79**
80 mm dia	4186 sq. mm	IW3000	**22F422**
100 mm dia	6794 sq. mm	IW4000	**22F423**



No. 52XP36



No. 22F422

Handheld Thermal Cameras

Seek thermal

State-of-the-art infrared cameras help find potential problems fast, and document findings for follow-up and reporting. High-resolution thermal imaging is ideal for electrical and industrial maintenance, process monitoring, tank levels, steam traps, utility inspections, and building maintenance. Each camera features a large color display and long-lasting rechargeable battery.

Description	Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Emissivity	Field of View	Focus Method	Includes	Mfr. Model	Item No.
Reveal Series									
Seek Thermal RW Series	-40° to 626°	100 mK	206 x 156 Pixels	Fixed 0.97	27.0° Horizontal x 36.0° Vertical	Fixed	SD Memory Card, USB Cable	RW-AAAX	**49ZA14**
Seek Thermal Reveal Pro Series	-40° to 824°	70 mK	320 x 256 Pixels	Adjustable 0.30 to 1.00	24.0° Horizontal x 32.0° Vertical	Fixed	SD Memory Card, USB Cable	RQ-AAAX	**49ZA24**
Shot Series									
Seek Thermal Shot	-40° to 626°	70 mK	206 x 156 Pixels	—	30.0° Horizontal x 27.0° Vertical	Auto	Lanyard, USB Cable	SW-AAA	**636W20**
Seek Thermal Shot Pro	-40° to 626°	70 mK	320 x 240 Pixels	—	57.0° Horizontal x 42.0° Vertical	Auto	Lanyard, USB Cable	SQ-AAA	**636W21**



No. 49ZA24



No. 636W20



No. 636W21

IR Smart Phone Adapters

Seek thermal

Powerful camera adapters transform iPhone® or Android™ smartphones or tablets into professional thermal imaging tools. Use the low power of smartphones to take thermal photos and video, share findings, and send for documentation. Lightweight and easy-to-use, simply connect and detect energy loss caused by air leaks, missing or damaged insulation, inefficient HVAC systems, electrical faults, and much more.

Temp. Range (F)	Temp. Range (C) - Infrared	Thermal Sensitivity	Frame Rate	Detector Resolution	Field of View	Focus Distance	Mfr. Model	Item No.
Android Devices								
-40° to 626°	-40° to 330°	70 mK	30 Hz	320 x 256 Pixels	24.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	UQ-AAAX	**49ZA22**
-40° to 626°	-40° to 330°	70 mK	20 Hz	320 x 240 Pixels	32.0° Horizontal x 23.0° Vertical	Minimum of 0.05m	CQ-AAAX	**55EP65**
-40° to 626°	-40° to 330°	100 mK	9 Hz	206 x 156 Pixels	20.0° Horizontal x 20.0° Vertical	Minimum of 0.25m	CT-AAA	**55EP66**
-40° to 626°	-40° to 330°	100 mK	9 Hz	206 x 156 Pixels	35.7° Horizontal x 26.8° Vertical	Minimum of 0.10m	CW-AAA	**55EP67**
iOS Devices								
-40° to 626°	-40° to 330°	70 mK	30 Hz	320 x 256 Pixels	24.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	LQ-AAAX	**49ZA20**

No. 49ZA22





No. 49ZA20



No. 6DWX0



No. 35KR04



No. 404K08

EXTECH INSTRUMENTS FLIR

High-Definition Videoscope Inspection Cameras with Advanced Capabilities

HDV600 Series video borescopes have a large, high-definition color TFT LCD monitor that delivers 640 x 480-pixel images and video. Meter is waterproof (IP67) and camera head with cable is waterproof (IP57). 1 GB SD memory card stores up to 14,600 images or up to 4 hr. of video with voice annotation. AV output for viewing images and video on a monitor. USB port allows data transfer to PC.

Select preconfigured system with camera and cable, or choose monitor-only No. 6RAX5 and pair with optional cameras (sold separately) for custom configuration. Each HDV600 Series unit includes AC adapter, USB and AV cables, case, and rechargeable lithium polymer battery.

Nos. 6DWX0 and 6DWU9—Articulating camera head adjusts up to 240° with easy knob control. Allows viewing in obstructed areas where standard camera cannot access. No. 6DWU9 camera control has built-in wireless to transmit inspection results up to 32 ft.

HD Articulating VideoScope Kit—Articulating 5.5mm camera tip facilitates viewing in obstructed areas where standard camera tips cannot access. Images and videos are viewed on the large high resolution color display and can be stored on the SD memory card (included).

Cameras with Cable and Camera Heads—5.5mm and 5.8mm borescope Cameras have flexible cables and QVGA resolution. 25mm borescope Camera Heads feature heavy-duty fiberglass cable for long distances; VGA resolution.

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Recording	Probe Lighting System	Brand	Mfr. Model	Item No.
Wireless High Definition Video Borescope								
0.59 to 2.4"	—	—	5.7"	Video	LED Lamp	Extech	HDV600	**6RAX5**
Video Borescope								
0.59" to 2.36"	39"	0.22"	5.7"	Video, Image	(4) Adjustable LED Lamps	Extech	HDV610	**6DWU7**
0.59 to 2.4"	39"	0.23"	5.7"	Video, Image	(4) Adjustable LED Lamps	Extech	HDV620	**6DWU8**
0.59" to 2.36"	39"	0.23"	5.7"	Video, Image	LED Lamp	FLIR	VS70-2	**35KP98**
Articulating Video Borescope								
0.59" to 2.36"	39"	0.24"	5.7"	Video, Image	(4) Adjustable LED Lamps	Extech	HDV640	**6DWX0**
Wireless Video Borescope								
0.59" to 2.36"	39"	0.24"	5.7"	Video, Image	(4) Adjustable LED Lamps	Extech	HDV640W	**6DWU9**
Articulating Wireless Video Borescope								
2.36" to Infinity	39"	0.31" and 0.24"	5.7"	Video, Image	LED Lamp	FLIR	VS70-KIT-W	**35KR04**
HD Articulating Videoscope Kit								
0.8 to 2.36"	39"	0.24"	3.5"	Video, Audio, Image	(4) Adjustable Bright LED Lamps	Extech	HDV540	**404K08**
Articulating Videoscope Kit								
2.36" to Infinity	39"	0.31" and 0.24"	5.7"	Video, Image	LED Lamp	FLIR	VS70-KIT	**35KR03**

Description	Brand	Mfr. Model	Item No.
For Use With HDV600 Series Borescopes			
Camera and Cable			
Borescope Camera 5.5mm, 3m Cable, Observation Depth 0.59 to 2.36" (15 to 60mm)	Extech	HDV-5CAM-3FM	**6MVL2**
Borescope Camera 5.5mm, 10m Cable, Observation Depth 2.36" to Infinity (60mm to infinity)	Extech	HDV-5CAM-10F	**6MVL3**
Borescope Camera 5.8mm, 1m Cable, Observation Depth 0.59 to 2.36" (15 to 60mm)	Extech	HDV-5CAM-1RM	**6MVL4**
Camera Head			
6mm Articulating Head, 4 LED Lamps, 1m Semi-Rigid Cable	Extech	HDV-TX1	**6MVN2**
6mm Articulating Head, 4 LED Lamps, 2m Semi-Rigid Cable	Extech	HDV-TX2	**6MVN3**
Wireless USB Transmitter			
Remotely View Images/ Videos Up To 30m From Source	Extech	HDV-WTX	**6MVL9**



No. 6FAW2



No. 8D202

Videoscope Inspection Cameras with Advanced Capabilities

GENERAL

Video borescopes employ water-, oil-, and dustproof IP67 probes for inspection and maintenance in a broad range of industrial, government, military, security, infrastructure, construction, aircraft, automotive, diesel, HVAC/R, oil/power/petroleum, and metalworking applications.

Color TFT LCD delivers 640 x 480-pixel still images and video. Footage can be viewed live, or recorded in still or video format and output to a monitor or PC.

LED lamps in viewing tip adjust for precise illumination. Multilanguage onscreen menu adapts to location.

Each includes main monitor console, standard probe, SD card, tip accessories, USB and AV cables, carrying case, batteries, and charger (if applicable).

No. 8D202 comes with a flexible, obedient probe—camera is lit by 4 LEDs.

Nos. 6FAW2 are equipped with articulating probes whose tips can bend in a ±150º sweep with thumbwheel control: Great for precision inspection in confined spaces.

Nos. 8D202 and 6FAW2—Record video up to 3 hr. on included 4 GB SD card. 1.5X zoom. Each is powered by rechargeable Li-ion battery.

Accessories—Specialty probes make a video borescope more versatile. Flexible-obedient probes hold their configured shape. Soft metal probes slide through pipes more easily. The 72-ft. long pipe Inspection probe is tailored for underwater or underground inspection. VGA probes with antireflection and light boost are great for inspecting very dark areas or equipment with shiny surfaces.

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Recording	Probe Lighting System	Mfr. Model	Item No.
Wireless Video Borescope							
0.25" to 12"	39"	0.22"	3.5"	Video, Image	(6) White LEDs	DCS1600HP	**8D202**
Articulating Wireless Video Borescope							
0.25" to 12"	39"	0.23"	3.5"	Video, Image	(5) White LEDs	DCS16HPART	**6FAW2**

Description	Mfr. Model	Item No.
For Use With Mfr. Model No. DCS1600, DCS1700		
VGA Resolution Articulating Soft Metal Probe Lit by 5 LEDs with ±150° Sweep, Anti-Reflection, Light Boost and 90° Image Rotation, 5.5mm Dia, 3.3 ft. long	P16HPART	**34E657**
For Use With Mfr. Model No. DCS1600, DCS1700, DCS1800		
QVGA Resolution Soft Metal Probe, 5.5mm Dia., 32.75 ft. long	P161810SM-M	**6FVG6**
VGA Resolution Soft Metal Probe Lit by 6 LEDs with Anti-Reflection, Light Boost and 90° Image Rotation, 5.5mm Dia, 3.3 ft. long	P16181HP	**34E658**

EXTECH INSTRUMENTS | Milwaukee

Inspection Cameras

Milwaukee Nos. 40KJ35 and 40KJ38—Recordable inspection cameras can send high-quality 640 x 480 images and video to the 3.5" wireless LCD monitor from up to 30 ft. away, and save them on included 8GB SD card for later review. Use the 3-ft. cable option for complete control of the camera head and faster positioning; available 9-ft. cable option gives you extended reach in pipes without bulky extensions.

Extech® Instruments Nos. 38W994 and 21EN95—Lightweight video borescopes feature detachable color TFT LCD for clear imaging. IP67 waterproof. Complete with 3¼-ft. flexible gooseneck cable, extension tools, and batteries. No. 38W994 has 4 bright LED lamps. No. 21EN95 has 2 LED lamps, video output cable, and hard carrying case.

Extech® Instruments No. 5CVT1 and 4NUP9—Detachable, wireless color LCD monitor. Borescopes can also transmit date-stamped video and still images up to 32 ft. to any monitor with a video jack. 2 LED lamps. IP67 waterproof. Includes flexible cable, extension tools, micro SD card with adapter, USB and video interconnect cables, AC adapter, and case.


No. 38W994


No. 40KJ35


No. 4NUP9

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Camera Size	Power Source	Brand	Item No.
Inspection Cameras							
2 to 6"	39"	0.66"	2.4"	17.0mm	(4) AA Batteries	Extech	**38W994**
5.9 to 9.8"	39"	0.35"	2.4"	9.0mm	(4) AA Batteries	Extech	**21EN95**
5.9 to 9.8"	36"	0.35"	3.5"	9.0mm	(4) AA Batteries	Extech	**5CVT1**
5.9 to 9.8"	39"	0.66"	3.5"	17.0mm	(4) AA Batteries	Extech	**4NUP9**
3 ft.	36"	0.49"	3.5"	12.0mm	Rechargeable Li-Ion Battery	Milwaukee	**40KJ35**
3 ft.	36"	0.49"	3.5"	12.0mm	Rechargeable Li-Ion Battery	Milwaukee	**40KJ38**
Accessories							
Stream Live Video to PC or Over VOIP (Voice Over Internet Protocol) Connection						Extech	**6DWX1**
5.5mm Waterproof Camera Head						Extech	**13X130**
17mm Waterproof Camera Head						Extech	**5WYV2**
9mm Waterproof Camera Head						Extech	**5WYV1**
Replacement Camera Cable, 3 ft., For Use With Mfr. Nos. 2315-21, 2316-21, 2317-21						Milwaukee	**40KJ36**
Replacement Camera Cable, For Use With Mfr. Nos. 2315-21, 2316-21, 2317-21						Milwaukee	**40KJ39**

AMPROBE | BACHARACH® | EXTECH INSTRUMENTS | UEi TEST INSTRUMENTS

Carbon Monoxide Meters

AMPROBE®

No. 4FKR1—Displays CO level; adjustable alarm for alerts at 25 to 200 ppm.

BACHARACH®

No. 31LA88 and Kit No. 31LA89—Monoxor® Plus continuous sampling monitor measures ambient or flue gas CO between 0 and 2000 ppm in 1 ppm increments. Trend graph shows real-time readings.

EXTECH® INSTRUMENTS

No. 4FB71—Has stabilized electro-mechanical gas-specific sensor.

No. 31NJ82—Display cycles through CO, air temperature, and humidity. Visible/audible alarm.

No. 31NJ83—Simultaneously displays CO, air temperature, and humidity with year, month, date, and time. Max. CO value recall. CO calibration in fresh air. Audible alarm.

No. 404K03—Displays CO level; adjustable alarm for alerts at 25 to 200 ppm.

UEI TEST INSTRUMENTS™

No. 8EWU2—3-color warning light and audible alarm. Backlit LCD, Max. Hold, and low-battery indicator.


No. 4FKR1



No. 31LA88


No. 404K03



No. 8EWU2

Item	Carbon Monoxide Measurement Range (ppm)	Temp. Range	Data Hold	Auto Power Off	Low Battery Indicator	Display	Includes	Power Source	Mfr. Model	Item No.
Amprobe										
Carbon Monoxide Meter	0 to 999	—	—	Yes	Yes	Backlit LCD	Batteries, Carrying Case and Instructions	(3) AAA Batteries	CM100	**4FKR1**
Bacharach										
Carbon Monoxide Analyzer	0 to 2000	-4° to 1202°F	Yes	Yes	Yes	Monochrome Backlit LCD	6 ft. Probe/Hose, Water Trap, (4) AA Batteries and Hard-Carry Case	(4) AA Batteries	0019-8117	**31LA88**
	0 to 2000	-4° to 1202°F	Yes	Yes	Yes	Monochrome Backlit LCD	6 ft. Probe/Hose, Water Trap, (8) AA Batteries and Hard-Carry Case, Wireless IrDA Magnetic Printer, USB Cable, PC Software	(4) AA Batteries	0019-8118	**31LA89**
Extech										
Carbon Monoxide Detector	0 to 1000	—	Yes	Yes	Yes	Back Lighted LCD	Battery, Holster, Carrying Case and Instructions	9V Battery	CO10	**4FB71**
Carbon Monoxide Monitor	0 to 999	32° to 122°F	No	No	No	LCD	Batteries and Instruction	(4) AAA Batteries	CO30	**31NJ82**
Desktop Carbon Monoxide Monitor	0 to 999	14° to 140°F	No	No	No	LCD	Universal AC Adapter and Instruction	AC Adapter	CO50	**31NJ83**
Portable Carbon Monoxide Meter	0 to 999	—	No	Yes	Yes	Dual LCD	(3) AAA Batteries, Wrist Strap, Carrying Pouch	(3) AAA Batteries	CO15	**404K03**
UEI Test Instruments										
Carbon Monoxide Detector	0 to 999 ppm	32° to 104° F	Yes	No	No	LCD and LED	Holster with Belt Clip, Battery	—	CO71A	**8EWU2**
	0 to 999 ppm	—	No	No	No	Backlit LCD	(3) AAA Battery	(3) AAA Batteries	COA2-N	**55UX46**
	0 to 999	32° to 104°F	No	No	Yes	Backlit LED	Battery, Holster	9V Battery	CO71A-N	**49CK94**


No. 5AER7


No. 5WYW1

CO_2, Humidity, and Temp. Loggers

AMPROBE EXTECH INSTRUMENTS

Display and record air quality factors where high levels of carbon dioxide are generated. Maintenance-free, dual-wavelength NDIR (nondispersive infrared) CO_2 sensors. LCD displays CO_2, temperature, and relative humidity.

Item	Carbon Dioxide Concentration	Relative Humidity Range	Temp. Range	Brand	Mfr. Model	Item No.
Wall-Mounted Carbon Dioxide Meter	380 to 2000 PPM	0 to 85%	14 to 140°F	Amprobe	CO2-200	**5AER7**
CO2/Humidity/Temp Datalogger	0 to 4000 ppm	10 to 95%	32 to 122 F (0 to 50 C)	Extech	SD800	**5WYW1**


No. 3ATR7

Air Volume Balancing Meters and Accessories

TSI ALNOR

Capture hoods channel air flow volume from supply or exhaust diffusers and grilles for fast, repeatable measurements.

CFM Range	Display	Includes	H	Base Dia.	Battery Life	Mfr. Model	Item No.
Air Flow Capture Hood							
10 to 500	Digital	Base, 2 x 2 Hood, Handles, and Case	34½"	13.3"	10 Hours	6200D	**4KF78**
25 to 2500	Digital Multi Line LCD	Base, Meter, 2 x 2 Hood, Case, Pitot Probe, Battery Charger, 2 Static Pressure Probes, Tubing, NIST Traceable Calibration Certification, and Software	42"	18"	10 Hours	EBT731	**3ATR7**
25 to 2500	Backlit	Wheeled Luggage Style Carrying Case, Detachable Micromanometer, (4) AA Rechargeable NiMH Batteries, Multi Country AC Adaptor, 18" Pilot Probe, (2) Static Pressure Probes, 16 ft. Tubing, USB Cable, Stand, Tablet	42"	18"	10 Hours	EBT731-STA	**53XX16**
30 to 1000	Analog Meter	Base, Meter, 2 x 2 Hood, Case, and Batteries	42"	18"	12 Hours	ABT701	**3ATR8**

Item	Mfr. Model	Item No.
For Use With 3ATR7		
Air Flow Probe	800187	**3ATT1**
Temperature And Humidity Probe	800219	**3ATT2**
For Use With 3ATR7 and 3ATR8		
Hood & Frame Kit	801201	**3DTE2**
Hood & Frame Kit	801203	**3DTE4**
Hood & Frame Kit	801207	**3DTE6**
For Use With Mfr. No. EBT731		
Velocity Matrix Probe	801090	**3ATR9**
For Use With Mfr. No. EBT731, ABT701		
Hood & Frame Kit	801202	**3DTE3**
Hood & Frame Kit	801206	**3DTE5**


No. 5AER6


No. 1VXT4


No. 30ZV04


No. 9XJ81


No. 3JXZ8

Air Quality Meters and Analyzers

AMPROBE EXTECH INSTRUMENTS TSI ALNOR

Help monitor indoor air quality (IAQ) in occupied spaces. Each instrument employs a nondispersive infrared (NDIR) carbon dioxide sensor.

Amprobe® Hand-Held CO_2 Meter—Portable meter provides instant feedback in offices, production floors, schools, and hospitals. Features easy-to-read large LCD with simultaneous CO_2, temperature, and relative humidity (RH) readings. Includes hard carrying case.

Extech IAQ Analyzer—Features continuous and manual datalogging including min./max. with time stamp. High/low audible and visual alarms. Stores 99 manual/20,000 continuous readings. Includes software and RS-232 cable.

Extech IAQ Carbon Dioxide Meter—Checks for CO_2 concentrations, measures temperature and relative humidity, and displays calculated dew point and wet bulb. Programmable CO_2 audible alarm. Transmits continuous readings to PC via USB cable. Includes data acquisitions software.

Extech Portable IAC CO_2 Meter—Measures carbon dioxide, temperature, humidity, dew point, and wet bulb. Calculates 8-hr. and 15-min. TWA. Programmable audible alarm and backlit triple LCD. Includes software, RS-232 cable, and carrying case.

TSI® Alnor® IAQ Tester—IAQ-Calc™ cost-effective meter features a low-drift NDIR sensor and a sampling function that records multiple-point measurements. Includes calibration certificate and carrying case.

Extech® IAQ CO/CO_2 Meter —Checks CO and CO_2 concentrations, measures temperature and relative humidity, and displays calculated dew point and wet bulb. Calculates 8- hr. and 15-min. time-weighted average (TWA). Datalogs up to 32,000 points. Includes USB cable, software, and case.

Description	Carbon Dioxide Concentration	Temp. Range	Relative Humidity Range	Auto Power Off	Data Hold	Display	Power Source	Mfr. Model	Item No.
Amprobe									
Hand-Held Carbon Dioxide Meter	0 to 9999 PPM	14° to 140°F	0 to 95%	Yes	Yes	Triple Line LCD	(4) AA Batteries	CO2-100	**5AER6**
Extech									
Carbon Monoxide/Carbon Dioxide IAQ Meter	0 to 9999 ppm	-5° to 140°F	0 to 99.9%	Yes	Yes	Triple LCD	(4) AA Batteries	CO260	**404K04**
Indoor Air Quality Analyzer	1 to 6000 PPM	-4° to 140°F	10 to 95%	—	Yes	Back Lighted LCD	Six AAA Batteries	EA80	**1VXT4**
Indoor Air Quality Carbon Dioxide Meter	0 to 9,999 ppm	14° to 122°F (-10° to 50°C)	10% to 90%	Yes	Yes	Dual Backlit LCD	(6) AAA Batteries	CO240	**30ZV04**
Portable Indoor Air Quality CO2 Meter	0 to 5000 ppm	14 to 140°F	0.0 to 99.9%	No	No	—	—	CO250	**9XJ81**
TSI Alnor									
Indoor Air Quality Tester	0 to 5000 ppm	40 to 113 F	—	No	No	Multiline LCD	(4) AA Batteries	7515	**3JXZ8**


No. 23V750


No. 4WDT2


No. 30JZ52

Air Particle Counters

GA GRAINGER APPROVED TSI ALNOR EXTECH INSTRUMENTS

- Flow rate: 0.1 cfm

Data sets can be stored and downloaded for analysis and reporting. Each includes zero filter, software, carrying case, AC power supply, and battery.

No. 23V750—6-channel instrument has easy-to-use graphical interface. Stores up to 5000 sample records on micro SD card (4 GB card included). Also includes tripod and USB cable.

No. 4WDT2—Intuitive keypad for easy setup: Up to 3 channels of simultaneous data with selectable middle channel. Internal memory stores up to 1500 sample records. Also includes probe, tubing, and NIST calibration certificate.

No. 30JZ52—Simultaneously measures and displays 6 channels of particle sizes. Measures air temperature, humidity, dew point, and wet bulb. Includes NIST traceable calibration certificate.

Particle Size	Display	No. of Channels	Relative Humidity Range	Temp. Range	Brand	Mfr. Model	Item No.
0.3, 0.5,1.0,2.5, 5.0 and 10 Micrometers	Color Display	6	0 to 100%	32° to 122°F	GA	—	**23V750**
0.3, 1.0 and 5.0 Micrometers	Backlit Graphical Display	3	20 to 95%	41° to 95° F	TSI Alnor	9303-01	**4WDT2**
0.3, 0.5, 1.0, 2.5 and 10um	2.8" TFT Color LCD	6	0 to 100%RH	-14° to 140°F (-25° to 60°C)	Extech	VPC300	**30JZ52**

Find more Fluke® HVAC Tools on pages 540, 597, and 604.

FLUKE

Particle Counter

- Simultaneously measures and displays 6 channels
- Customizable display, sample method, and alarm settings for sample count
- Stores up to 10,000 samples
- NIST traceable

Indoor air quality troubleshooter/monitor can be used in industrial cleanrooms to monitor particle concentrations and help measure filter efficiency. Features onscreen trend graphs for quick-and-easy analysis. Data can be downloaded via USB memory stick or the included USB and Ethernet cables.

Particle Size	Concentration Range	Flow Rate	Count Modes	Includes	Mfr. Model	Item No.
0.3, 0.5, 1, 2, 5,10 Microns	10% at 4,000,000 per cu ft	0.1 cfm	Cumulative or Differential	Instrument Cradle, Power Adapter W Intl Power Adaptor Set,USB Cable,Ethernet Cable,Filter,Filter Adapter, nlet Protective Cap,Getting Started Manual,Users Manual on CD,and Hard Carrying Case	Fluke-985	**20Z194**





Fluke 975VP, No. 1DKH8
Air velocity probe for 975 AirMeter™.

Description	Mfr. Model	Item No.
AirMeter™ Velocity Probe	FLUKE-975VP	**1DKH8**
Carbon Monoxide Aspirator Kit	Fluke-CO-205	**4WR68**



Fluke CO-220
No. 4TP97



Fluke 971
No. 5YE63



Fluke 922
No. 1CWL5

FLUKE

Indoor Air Quality Meters

Diagnostic tools help control indoor environments and manage energy use, providing automated measurements, data collection, and analysis.

FLUKE CO-220 CARBON MONOXIDE METER

Beeper triggers with increasing frequency as CO level rises. Bright backlight makes it easy to view the large LCD screen under dim lighting.

FLUKE 971 TEMPERATURE HUMIDITY METER

- Measures dew point, wet bulb temperatures, and humidity
- 99-record storage capacity
- 0.1°F/0.1°C resolution

Backlit dual-display.

FLUKE 922 AIRFLOW METER/MICROMANOMETER

- Measures differential and static pressure, air velocity, and flow readings
- Min./max./avg./hold

Duct shape and size are user-defined for maximum air flow accuracy. Colored hoses help with proper interpretation of pressure readings.

Temp. Range	Relative Humidity Range	Air Pressure Range	Air Velocity	Air Flow Range	CO Measurement Range	CO_2 Range	Includes	Mfr. Model	Item No.
—	—	—	—	—	0 to 1000 ppm	—	Instructions	FLUKE-CO-220	**4TP97**
-4° to 140°F	5 to 95%	—	—	—	—	—	Instruction Manual	Fluke-971	**5YE63**
32° to 122°F	—	±4000 Pascals, ±400 mm H2O, ±40 mbar, ±0.6 psi	250 to 16,000 fpm	0 to 99,999 cfm, 0 to 99,999 m3/hr, 0 to 99,999 l/s	—	—	Battery, Tubing, Hard Case, 12" Pitot Tube, 4XL48 Meter Hanging Kit and Instructions	FLUKE-922/KIT	**1CWL6**
32° to 122°F	—	±4000 Pascals, ±400 mm H2O, ±40 mbar, ±0.6 psi	250 to 16,000 fpm	0 to 99,999 cfm, 0 to 99,999 m3/hr, 0 to 99,999 l/s	—	—	Battery, Tubing, Soft Case and Instructions	Fluke-922	**1CWL5**
-5° to 122°F	10 to 90%	—	50 to 3000 fpm	0 to 140,000 cfm	0 to 500 ppm	0 to 5000 ppm	Air Velocity Probe, AC Charger, Software, USB Cable, Calibration Cap and Tubing, Hard Carrying Case, Batteries and Instructions	FLUKE-975V	**1AYG5**
-5° to 122°F	10 to 90%	—	50 to 3000 fpm	—	0 to 500 ppm	0 to 5000 ppm	AC Charger, Software, USB Cable, Hard Carrying Case, Batteries and Instructions	FLUKE-975	**1AYG6**



No. 4XX70


No. 30ZP37

Pocket Anemometers

EXTECH INSTRUMENTS

Waterproof Foldup—Nos. 4XX70 and 1RK12 simultaneously display air velocity and temperature or wind chill, and feature selectable averaging mode.

Heat Index—Measure humidity and temperature (air and PT1000 thermistor), plus heat index and barometric pressure. No. 30ZP37 also measures visible light from 0 to 1860Fc (20,000Lux).

Mini Vane—No. 40GR97 has a built-in compass and provides wind direction and 360° readings. No. 453A48 4-in-1 anemometer measures air velocity, air flow, air temperature, and Type K temperature. Data Hold and Min./Max. function.

Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Volume (CFM)	Temp. Range	Display	Power Source	Mfr. Model	Item No.
Waterproof, Fold-Up Pocket Anemometers								
100 to 5500	0.5 to 28	1.1 to 62.5	—	0° to 122°F	Dual LCD	CR2032 Battery	45118	**4XX70**
Waterproof, Fold-Up Pocket Anemometer with RH and Dew Point								
100 to 5500	0.5 to 28	1.1 to 62.5	—	0° to 122°F	9999 Count LCD	CR2032 Battery	45158	**1RK12**
Heat Index, Barometric Pressure, and Visible Light or UV								
80 to 3937	0.4 to 20	0.9 to 45	0.87 to 1,271,300 cfm	32° to 122°F	Backlit LCD	CR2032 Battery	EN100	**30ZP37**
Mini Vane Thermo-Anemometer								
60 to 3937	1.1 to 20	0.5 to 44.7	—	5 to 122°F	LCD	—	45168CP	**40GR97**
80 to 3937	0.4 to 20	0.9 to 44.7	0.87 to 1,271,300 cfm	32° to 122°F (Air), -148° to 2372°F (K)	Dual Backlit LCD	(3) AAA Batteries	AN510	**453A48**


No. 5AER4


No. 13G529


No. 43Y057


No. 43Y053


No. 12A182


No. 9WP68


No. 3TFP2

EXTECH INSTRUMENTS · ACU-RITE · AMPROBE · Kestrel® Pocket Weather Meters · ALNOR · UEi TEST INSTRUMENTS · WESTWARD

CFM/CMM Thermo-Anemometers

Extech®—No. 5GCD4 includes USB port plus software.

TSI Alnor®—Store up to 12,700 samples. No. 12A182 also measures humidity and stores 26,500 readings.

Amprobe®—Also measure humidity, dew point, wet bulb, and wind chill. Pocket-size.

Kestrel—No. 8UME8 measures 3 second average wind speed. No. 49KA91 has a compass, and measures crosswind and headwind/tailwind. No. 8D481 measures water, and snow temperature, as well as wind chill. No. 9U521 measures dew point, relative humidity, wind chill, and heat stress index.

Westward—Includes interchangeable probes.

UEI Test Instruments™—Also measure relative humidity, and wet and dry bulb.

Cone Kit—Quick, easy air flow measurements for common-size ducts.

AcuRite®—Also measures humidity, altitude, and wind chill, calculates heat index, and keeps records for high and low temperatures. Can be mounted on tripods with ¼" 20-thread fitting.

Sensing Method	Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Volume	Temp. Range	Humidity Sensing	Auto Power Off	Data Hold	Display	Mfr. Model	STANDARD Item No.	NIST Item No.
Anemometer with IR Temperature												
Extech												
Rotating Vane	80 to 5900	0.4 to 30	0.9 to 67	0 to 999,999 cfm	-58° to 500°F (IR), 14° to 140°F (Air)	No	Yes	Yes	9999 Count LCD	AN200	**1PKZ5**	**5GCD6**
Rotating Vane and Thermistor	80 to 5900	0.4 to 30	0.9 to 67	0 to 9999 cfm	14° to 140°F	No	Yes	Yes	Dual LCD	AN100	—	**5GCD5**
Anemometer												
Acurite												
Rotating Vane	0 to 1990	0.1 to 30.0	0.9 to 56	—	-40°to 158°F	Yes	Yes	No	LCD	00256M	**53DP70**	—
Amprobe												
Rotating Vane and Thermistor	60 to 3937	1.1 to 20	0.5 to 44.7	—	32° to 122°F	Yes	Yes	Yes	LCD	TMA5	**5AER4**	—
Extech												
Rotating Vane and Thermistor	79 to 6890	0.4 to 35	0.9 to 78.3	—	32° to 158°F (Air), -148° to 2372°F (Type K), -148° to 2192°F (Type J)	No	Yes	Yes	9999 Count LCD	SDL300	**6YNG6**	**6YNG7**
	80 to 4930	0.4 to 25	0.9 to 55.9	—	32° to 122°F	No	Yes	Yes	9999 count LCD	SDL310	**13G529**	—
	98 to 3937	0.5 to 20	—	0 to 99,999 cfm	-4° to 140°F	Yes	Yes	Yes	Dual LCD	AN340	**43Y057**	**21YE24**
	40 to 5900	0.2 to 30	—	0 to 99,999 cfm	-4° to 140°F	No	Yes	Yes	Dual LCD	AN300	**43Y053**	**21YE21**
	40 to 5900	0.2 to 30	—	0 to 99,999 cfm	-4° to 140°F	Yes	Yes	Yes	Dual LCD	AN310	**43Y055**	**21YE22**
	100 to 6890	0.5 to 35	1.1 to 78.3	0 to 999,900 cfm	32° to 176°F	No	Yes	Yes	9999 Count LCD	407113	**1BP96**	**4HRF4**
	80 to 5900	0.4 to 30	0.9 to 67	0 to 9999 cfm	14° to 140°F	No	Yes	Yes	1999 Count LCD	AN100	**1PKZ4**	—
Kestrel												
Rotating Vane	118 to 7874	0.6 to 40	1.3 to 89.5	—	—	No	Yes	Yes	Reflective 3½ Digit LCD	0810	—	**8UME8**
	118 to 7874	0.6 to 60	0.4 to 89	—	-20° to 158°F	Yes	Yes	Yes	LCD	0855YEL	—	**49KA91**
Rotating Vane and Thermistor	118 to 7874	0.6 to 40	1.3 to 89.5	—	-20° to 158°F	No	Yes	Yes	Reflective 3½ Digit LCD	0820	—	**8D481**
	118 to 7874	0.6 to 40	1.3 to 89.5	—	-20° to 158°F	Yes	Yes	Yes	Reflective 3½ Digit LCD	0830	—	**9U521**
TSI Alnor												
Hot Wire	0 to 9999	0 to 50	—	0 to 999,999 cfm	14° to 140°F	Yes	Yes	Yes	Graphic LCD	9565	—	**12A182**
Hot Wire and Thermistor	0 to 6000	0 to 30	—	—	0° to 200°F	No	No	No	LCD	9535-A	—	**3MPD3**
	0 to 6000	0 to 30	—	—	0° to 200°F	No	No	No	LCD	9535	—	**3MPD2**
UEI Test Instruments												
Rotating Vane and Thermistor	99 to 3937	0.5 to 20	—	0 to 99,999 cfm	-4° to 140°F (-20 to 60°C)	Yes	Yes	Yes	1.38 x 2.13" LCD	DAFM3B	**9WP68**	—
Westward												
Rotating Vane and Hot Wire	Vane: 80 to 4900, Hot Wire: 40 to 3900	Vane: 0.4 to 25, Hot Wire: 0.2 to 20	Vane 0.9 to 55.9,Hot Wire 0.5 to 44.7	—	-5° to 175°F	No	Yes	Yes	Dual 4 Digit LCD	3TFP2	**3TFP2**	—
Rotating Vane and Thermistor	80 to 5910	0.4 to 30	0.9 to 67	—	0° to 50°C	No	Yes	Yes	LCD	28AF77	**28AF77**	—
Air Flow Cone Adapter Kit												
Extech												
For Use With AN300, AN310 and AN320 Large Vane Anemometers										AN300-C	**43Y054**	—

Hot Wire Thermo-Anemometers

Dual-purpose instruments measure temperature and air speeds in ducts and ventilating systems. Auto-Off.

DWYER®

Shows simultaneous air velocity or air flow and temperature on high-contrast backlit LCD. Stores up to 99 readings. 8" stainless steel probe is etched with insertion depth marks.

EXTECH®

Nos. 3MPE6 and 5GCD3 and 4KC29 & 5ZT04— Simultaneously display air temperature and air velocity down to 40 ft./min. Telescoping probe is designed to fit into small openings.

Nos. 3MPE6 and 5GCD3 also measure air flow in cfm/cmm and display instantaneous or 20-pt. average air flow down to 40 ft./min. Probe extends to 3 ft.

Nos. 4KC29 and 5ZT04 2-ft. probe extends up to 7 ft. with cable.

Optional Data Acquisition Software No. 1CLF1 is available on Grainger.com®.

Nos. 13G530 and 36FW25—Selectable sampling rate of 1 to 3600 sec. Display simultaneous air velocity and temperature. Telescoping probe. Accept Type J/K thermocouple for high-temperature measurement. Retain up to 99 readings, or use included SD card to data log up to 20 million readings in Excel® format.

TSI ALNOR®

All have LCD.

No. 1UCY4—40" telescoping straight probe.

Nos. 1UCY6 and 1UCY7—Both have 42" articulated probe. No. 1UCY7 also measures relative humidity to 95% (±3% accuracy) and calculates dew point and wet bulb temperature.

UEI TEST INSTRUMENTS™

Directly captures air temperature, relative humidity, and air velocity. Calculates wet bulb temperature, dew point temperature, and air volume. Air volume is displayed in real-time, or choose a timed average with start/stop capabilities to traverse ductwork. Also features 0.7" small diameter air vane on 39" long telescoping probe. Includes hard carrying case, 9V battery, and manual.

TESTO-C

Determines air velocity, temperature, and volume flows. Via Bluetooth®, readings are transmitted wirelessly to convenient app-based operation on smartphone or tablet.



Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Velocity Accuracy	Temp. Range	Interface	Data Logging	STANDARD Mfr. Model	STANDARD Item No.	NIST Mfr. Model	NIST Item No.
Dwyer										
0 to 6000	0 to 30	67	±3%	-40° to 212°F	—	No	471B-1	**24A466**	—	—
Extech										
40 to 3346	0.2 to 17	0.9 to 38	±5% +5 Digits	32° to 122°F	RS-232	No	407119	**3MPE6**	407119	**5GCD3**
40 to 3940	0.2 to 20	0.5 to 45	±3%	32° to 122°F	RS-232	No	407123	**4KC29**	407123	**5ZT04**
40 to 3940	0.2 to 25	0.5 to 45	±5%	32° to 122°F	SD Card and PC	Yes	—	—	SDL350	**36FW25**
40 to 3940	0.2 to 25	0.5 to 45	±5%	32° to 122°F	RS-232	Yes	SDL350	**13G530**	—	—
Testo										
0 to 6000	0 to 68	0.12 to 68	±19.7 fpm + 5% (0 to 394 fpm), 59.1 fpm + 5% (394 to 2953 fpm), ±0.1 m/s + 5% (0 to 2 m/s), ±0.3 m/s + 5% (2 to 15 m/s)	-4° to 140°F	Bluetooth 4.0	No	0560 1405 01	**49ZZ52**	—	—
TSI Alnor										
0 to 4000	0 to 20	—	±5%	0° to 200°F	—	No	—	—	AVM410	**1UCY4**
0 to 6000	0 to 30	—	±3%	0° to 200°F	USB	Yes	—	—	AVM430-A	**1UCY6**
0 to 6000	0 to 30	—	±3%	14° to 140°F	USB	Yes	—	—	AVM440-A	**1UCY7**
UEI Test Instruments										
99 to 3937	0.5 to 20	—	±3%	-4° to 140°F	Digital	No	DAFM4	**35WC98**	—	—

Ultrasonic Leak Detectors

Diagnose problems before they result in major breakdowns. Units detect ultrasonic sound produced by pressurized leaks, vacuum leaks, arcing electrical power distribution equipment, and faulty seals and gaskets.

Amprobe®—Parabolic shield reduces background noise. Extension tube for difficult or dangerous areas.
- **35,000 to 45,000 Hz AC frequency response**

Spectroline®—Solid-state circuitry enhances sensitivity and simplifies operation. Touch-control pad with 5-LED signal-intensity indicator and audible alarm. Contact probe helps diagnose internal components without disassembly. Probe reaches into tight spaces.
- **36,000 to 44,000 Hz frequency response**

Bacharach®—No. 6JHN8 simultaneously detects vacuum and high-pressure leaks. Includes a foldable headset. Other instruments have an internal sensor and hard hat-compatible headphones. No. 6JHP2 employs 2 software-controlled sensors. No. 6JHP4 has multiple detection bands, including unique acoustic bands.
- **34,000 to 42,000 Hz frequency response**



Item	Includes	Mfr. Model	Item No.
Amprobe			
Ultrasonic Leak Detector	Leak Detector, Transmitter, Tubular Extension with Adapter, Headphones, Parabola and Carrying Case	TMULD-300	**1WXG9**
	9V Battery, Carrying Case, Parabola Shield, Adapter, Tubular Extension and instructions	ULD-300	**5NLK6**
Bacharach			
Compact Ultrasonic Leak Detector	LED Bar Graph	28-8001	**6JHP0**
	Sound Blaster	28-8011	**6JHP1**
Ultrasonic Inspection System	Hard Hat Compatible Headphones, Touch Probe, 3 Foot Extension Probe, 6" Wave Guide, Hard Carrying Case and Instructions	28-8003	**6JHP4**
	Headphones, Touch Probe, 3 Foot Extension Probe, 6" Wave Guide, Sound Blaster Ultrasonic Sound Generator, Hard Carrying Case and Instructions	28-8013	**6JHP5**
Ultrasonic Leak Detector	Folding Headphones and Instructions	28-8000	**6JHN8**
	Headphones, Sound Blaster Ultrasonic Sound Generator and Instructions	28-8010	**6JHN9**
	Folding Headphones and Instructions	28-8002	**6JHP2**
	Hard Hat Compatible Headphones, Sound Blaster Ultrasonic Sound Generator and Instructions	28-8012	**6JHP3**
Spectronics			
Ultrasonic Diagnostic Tool	Ultrasonic Receiver, Ultrasonic Emitter, Hollow Air Probe, Contact Probe, HP 100 Noise Canceling Headphones, and Rugged Carrying Case	MDE-2000NC	**21D133**



No. 2ELP8



No. 3UCH3



No. 36T592



No. 3JYN7

AMPROBE BACHARACH EXTECH GA GRAINGER APPROVED GENERAL SENSIT Technologies ipi UEi TEST INSTRUMENTS

Combustible Gas Leak Detectors

Handheld service instruments help identify unsafe concentration of gas near furnaces and other equipment.

Detects	Features	Measuring Range	Mfr. Model	Item No.
Amprobe				
Methane and Propane	—	—	GSD600	**4FKR2**
Bacharach				
N20	Infrared Technology,Internal Pump and Self-contained Purge-air Bag	0-1,000 ppm	3015-4790	**22D058**
Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Iso-Butane, Methane, Methanol, Paint Thinners, Propane, Natural Gas, and Naptha	Auto Calibration	—	19-7075	**4LU63**
Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Methane, Paint Thinners, Propane, Natural Gas, Naptha	Automatic, Self Check, Self Storing 20" Flexible Probe, LED, Loud Audible Ticking Rate	20 ppm (Methane) ppm	19-7051	**3JYN5**
Combustible Gases and Refrigerant Gases	Flashing Probe Tip, Automatic Sensitivity, Low Battery Indicator and Interchangeable Sensors	—	19-8038	**2XFE4**
Extech				
Propane 500 to 6500 PPM, Natural Gas 1000 to 6500 PPM	Bulit-in Static Discharge Test	—	FG100	**4GE83**
Natural Gas, Methane, Ethane, Propane, Butane, Acetone, Alcohol, Ammonia, Steam, Carbon Monoxide (Not To Quantify), Gasoline, Jet Fuel, Hydrogen Sulfide, Smoke, Industrial Solvents, Lacquer Thinner, and Naphtha	16" Flexible Gooseneck For Easy Access Into Hard to Reach Locations	—	EZ40	**2ELP8**
GA				
Acetone, Acetylene, Ammonia (R717), Chlorine, Ethane (R170), Ethylene, Gasoline, Hydrogen, Hydrogen Sulfide, Iso-Butane (R600a), Methane, Methanol, Methyl Chloride, Methyl Ether, Propane (R290)	15-In. Probe, 30 Seconds Warmup Time, Instantaneous Response, Variable Sensitivity	—	TIF8900	**3UCH3**
General				
Natural Gas, Propane, Methane, Butane	Catalytic Combustion Sensor, Calibrated	Propane at 2000 ppm, Natural Gas at 4000 ppm	PNG2000A	**3JYL8**
Methane, Natural Gases, Coal Gases, Hexane, Propane, Ethane, Butane, Pentane, Isopropyl Alcohol, Halogenation Hydrocarbon, (Methanol, Ethanol, Butanol) Aether, Ketone (Butone, Protone), Hydrogen, Toluene, and Other Compounds, (Gasoline, Industrial Solvent, Lacquer, Refrigerant, Sulfur Dioxide, Ammonia, Sulfured Hydrogen, Acetic Acid, Etc.)	Flexible Probe; Low Battery Indicator; Variable Sensitivity, As Low As 5ppm (Gasoline); Instantaneous Response Time; Less Than 110 Seconds in 25, 60%RH Warm-Up Time); Double Color LED Indicates Charge State	—	NGD8800	**3KXE5**
Methane, Xylene, Propane, Ethane, Butane, Hydrogen, Ethylene, Ethanol, ISO-Butane, NOL, Gasoline, Acetylene, Methyl Ether, Ammonia, H.Sulfide, Industrial Solvents, Benzene, Alcohols, Acetone, Toluene	LCD and LED Dual Display	—	CGD900	**6YPT4**
General Tools				
Combustible Gases	Backlit LCD Screen, Digital Bar Graph, Audible Alarm, 13" Flexible Probe, Quick Response	0 to 100% LEL	NGD269	**488Z06**
Sensit				
Methane, Propane, Butane and More	16 In. Probe, Instantaneous Response, Direct Reading up to 100% LEL	50 ppm to 100% LEL Methane, Propane	907-GRNGR-01	**36T581**
Methane, Propane, Butane and More	16 In. Probe, Instantaneous Response, Direct Reading up to 100% LEL	10 ppm to 100% LEL Methane, Propane	906-00000-08	**36T592**
Test Products Intl.				
Combustible Gases	16-In. Flexible Probe, Low Power Semiconductor Sensor, Thumbwheel Adjustable Tic Rate, Earphone Jack, Sensor Test and Automatic Zero at Startup	10 ppm	720B	**3JYN1**
Natural Gas, Propane, Butane, Diesel, Gasoline and Most Other Flamable Gases	Thumb Wheel Tick Rate Adjuster, Visual Display and Tip Signal Indicators, Backlighted Display, 16" Goose Neck Wand	0 to 9999 ppm Combustibles, 0 to 19.9% LEL	721	**6GDP4**
Methane, Natural Gas, Gasoline, Diesel, Propane, Butane, Kerosene	LEL% Reading 2.1% to 100%	0 to 999 ppm	HXG-2D	**36M829**
Natural Gas, Methane, Butane, Propane (LPG), Gasoline, Diesel, and Kerosene	Low Power Semiconductor Sensor, Fits in Shirt Pocket, Auto Zeros, Responds Instantly, Sensitive to 1000 ppm (Methane)	>1000 ppm	725A	**3JYN7**
Combustible Gases and Carbon Monoxide	16-In. Flexible Probe, Low Power Semiconductor Sensor, Sensitive to 50 ppm (Methane), Auto Zero, Backlight	0 to 2000 ppm CO, 0 to 9999 ppm Combustables	775	**3JYP8**
UEI Test Instruments				
Alcohol, Thinners, Volatile Jet Fuel, Butane, Propane, Methane, Gasoline, Combustible Refrigerants, Naphtha, Solvents, Natural Gas, Acetylene, Acetone, Ammonia, Smoke, Hydrogen Sulfide, Steam	—	—	CD100A-N	**49CK92**
Acetone, Alcohol, Ammonia, Benzene, Butane, Ethylene Oxide, Gasoline, Halon, Hydrogen Sulfide, Industrial Solvents, Jet Fuel, Lacquer Thinners, Methane, Naphtha, Natural Gas, Propane, Refrigerants and Toluene	Fully Adjustable Thumbwheel	50 ppm (Methane)	CD100A	**8EUN6**
Acetone, Ammonia, Steam, Halon, Alcohol, Butane, Gasoline, Hydrogen Sulfide, Lacquer Thinner, Industrial Solvents, Propane, Natural Gas (Methane), Jet Fuel, Naptha	Adjustable Tick Rate to Locate Leaks Quickly and Easily, Visual Leak Detection, Separate User Adjustable Alarm for Predetermined Level Detection, Precision Sensor Detects, Fast Response Time of Less Than Two Seconds to 40% LEL	<50 ppm (Methane)	CD200	**9GH90**
Alcohol, Thinners, Volatile Jet Fuel, Butane, Propane, Methane, Gasoline, Combustible Refrigerants, Naphtha, Solvents, Natural Gas, Acetylene, Acetone, Ammonia, Smoke, Hydrogen Sulfide, Steam	—	—	CD200-N	**49CK93**
Alcohol, Thinners, Volatile Jet Fuel, Butane, Propane, Methane, Gasoline, Combustible Refrigerants, Naphtha, Solvents, Natural Gas, Acetylene, Acetone, Ammonia, Smoke, Hydrogen Sulfide, Steam	NIST Calibration	—	LPKIT-N	**49CK97**

Portable Combustion Analyzers

BACHARACH®

Units all utilize the B-Smart® carbon monoxide (CO) sensor. INSIGHT® Plus sensor measures 0 to 4000 ppm with integral NOx filter. InTech® has 0 to 2000 ppm CO sensor. Feature internal sampling pump and print capability.

Fyrite® INSIGHT® Plus Combustion Analyzers—5-in-1 residential/commercial testers analyze steady-state combustion and efficiency of 9 selectable fuels. Backlit LCD with zoom and full-color display with dynamic graphing enhance combustion process analysis. O_2 sensor life indication. Proprietary Tune-Rite™ troubleshooting software is included.

- Color graph screens show stack hot spots and trending
- Measure combustion/ambient and flue gas temperature, O_2, CO, and draft/differential pressure
- Draft pressure: 100" WC
- Calculate CO_2, CO air free, and excess air

Fyrite® InTech® Residential Analyzers—Basic electronic analyzers calculate the efficiency of residential furnaces and combustion appliances. Lightweight and easy to use for routine service calls. Turn it on, select 1 of 6 fuels, and see quick results on the digital display.

- Measure stack and ambient temperature, O_2, and CO
- Calculate carbon dioxide (CO_2), CO air free, and excess air

Series	Combustion Efficency	Primary/Ambient Air Temp.	Stack Temp.	Excess Air
InTech	0.1 to 100%	-4 to 212°F	-4 to 1202°F	0 to 250%
INSIGHT	0.1 to 100%	-4 to 600°F	-4 to 1202°F	0 to 250%



No. 36M793

Carbon Monoxide Measurement Range	Includes	Mfr. Model	Item No.
Fyrite® INSIGHT® Plus Combustion Analyzers			
0 to 4000 ppm	Long Life O2 Sensor Installed, Probe, 4 AA Batteries, Spare Filters, Rubber Boot, User Manual, Hard Carry Case	0024-8517	**36M793**
	Long Life O2 Sensor Installed, Probe, 8 AA Batteries, Spare Fters, Rubber Boot, User Manual, Hard Carry Case, IrDA Printer, USB Cable, User Software	0024-8518	**36M794**
Fyrite® InTech® Residential Combustion Analyzers			
0 to 2000 ppm	Probe, 4 AA Batteries, Rubber Boot, User Manual, Hard Carry Case	0024-8523	**36M790**
	Probe, 4 AA Batteries, User Manual And Soft Case	0024-8511	**36M788**
	Probe, 8 AA Batteries, Printer, Rubber Boot, User Manual, Hard Carry Case, USB Cable, User Software, Spare Filters	0024-8512	**36M789**



No. 3JYG6



No. 49KE07



No. 55DN07

Combustion System Analyzer Kits

TESTO

Nos. 36H452 and 36H453

- Measure O_2, carbon monoxide (CO), temperature, and draft pressure
- Calculate CO_2, excess air (EXA), and efficiency

Testers are ready to use after a fast, 30-sec. warmup. Magnetic back for hands-free operation. Available with an IR printer. Nos. 36H452 and 36H453 have a 2-line backlit display.

TEST PRODUCTS INTL.

- Measure CO and CO_2
- Calculate O_2, efficiency, excess air, and ratio
- Analyze CO

Full-system diagnostic analyzers help reduce fuel costs.

UEI TEST INSTRUMENTS

No. 49KE07

- Measures O_2, CO, inlet and flue temperature, and differential pressure/draft
- Calculates efficiency, CO_2, net temperature differential, losses, excess air, CO/CO_2 ratio, and poison index

Monitors emissions to protect the environment. Services and tests combustion systems over 10,000 MBtuH with high-concentration gas levels for extended durations. Measures 5 gases simultaneously (6 with direct CO_2 measurement). Autolog and onboard printer.

No. 36H167

- Measures differential pressure
- Dual-input to measure pressure to ±60 InWC (inches water column)

Senses combustible, noncombustible, and toxic gases. Includes combustible gas leak detector and electronic manometer. Measures in 11 scales: inH_2O, psi, bar, mBar, kPa, inHG, mmHG, ozin, FtH_2O, cmH_2O, and kgcm.

O_2 Concentration	CO Measurement Range (PPM)	CO_2 Concentration	Primary/Ambient Air Temp.	Pressure/Draft	Excess Air	Includes	Mfr. Model	Item No.
Testo								
0 to 21.0 vol.%	0 to 4000	0 to CO2 max. Calculated	-4° to 212 °F (20° to 100 °C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	Battery, Sensors, Probe With Cone, Hose, Case, Silicon Tubing, Extra Particulate Filters, AC Adapter, Pressure Plugs, Certificate of Conformity	0563 3100	**36H452**
0 to 21.0 vol.%	0 to 4000	0 to CO2 max. Calculated	-4° to 212 °F (20° to 100 °C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	Battery, Sensors, Probe With Cone, Hose, Case, Silicon Tubing, Extra Particulate Filters, AC Adapter,Pressure Plugs, Certificate of Conformity, Printer And 2 Rolls Of Paper	0563 3110	**36H453**
Test Products Intl.								
0 to 25%	0 to 10,000	0 To 25%	-58° to 1832°F (-50° to 1000°C)	-150 mBar to +150 mBar, -15 kPa to +15 kPa, -60 to +60 In. WC	0 to 250%	K-Type Thermocouple, Silicone Tubing, Mini Pump Protection Filter, Flue Probe, Soft Carrying Case, Infrared Printer	709A740	**3JYG6**
0 to 25%	0 to 10,000	0 to 25%	-58° to 1832°F (-50° to 1000°C)	-150 mBar to +150 mBar, -15 kPa to +15 kPa, -60 to +60 In. WC	0 to 250%	K-Type Thermocouple, Silicone Tubing, Mini Pump Protection Filter, Flue Probe, Soft Carrying Case	712	**3KNK5**
UEI Test Instruments								
0 to 25%	0 to 4000	0 to 20%	0° to 999°F (0° to 660°C)	0 to 150 mBar	0 - 100% Calculated	Combustion Analyzer, CO Sensor, O2 Sensor, 12" Flue Probe with15' Hose, Battery Charger, Filter Bypass, Replacement Particle Filter, Sulfur Filter, Water Trap, Watertrap Filter, Owners Manual	K9206	**49KE07**
—	—	—	—	-20 to +20 In WC	—	8EUN6 combustible gas leak detector, 6CMT9 digial manometer, Sample Tube, ¼" NPT to Hose Barb Adapter, Batteries, Instructions	LPKIT	**36H167**
0 to 21%	0 to 2000	0 to 20%	0° to 1112°F	-32 to +32 In. WC, -80 to +80 mBar	0 to 250%	12" Probe, 10" Hose, Inlet Tube/Probe Connector, (2) K Type Temperature Probes, Spare Filter, AC Adapter, Hard Carrying Case	C165KIT-N	**55DN08**
0 to 21%	0 to 2000	0 to 20%	0° to 1112°F	-32 to +32 In. WC, -80 to +80 mBar	0 to 250%	12" Probe, 10" Hose, Inlet Tube/Probe Connector, (2) K Type Temperature Probes, Spare Filter, AC Adapter, Thermal Printer, Paper Roll, Hard Carrying Case	C165KIT	**55DN07**


No. 45CJ96 12-Series


No. 36CF95


No. 36CF90

Alarm Type	Operating Temp. Range	W	D	H	Power Req.	Gas Type	Sensor Range	Std.	Mfr. Model	Item No.
Gas Detector/Controller/Transducers										
Macurco 6-Series										
Audible and Visual	0° to 125°F (-18° to 52°C)	4"	2⅛"	4½"	12 to 24VAC or 12 to 32VDC	C3H8, CH4, H2	0 to 50% LEL	ETL Listed to UL 61010-1, CAN/CSA C22.2 No. 61010-1	GD-6	**36CF89**
						CO	0 to 200 ppm		CM-6	**36CF92**
						H2S	0 to 50 ppm		TX-6-HS	**36CF98**
						NH3	0 to 100 ppm		TX-6-AM	**36CF97**
						NO2	0 to 20 ppm		TX-6-ND	**36CF96**
						O2	0 to 25% vol.		OX-6	**45CJ93**
						Refrigerants	0 to 1000 ppm		RD-6	**45CJ92**
Macurco 12-Series										
Audible and Visual	0° to 125°F (-18° to 52°C)	4"	2⅛"	4½"	100 to 240VAC (50 to 60 Hz)	C3H8, CH4, H2	0 to 50% LEL	ETL Listed to UL 61010-1, CAN/CSA C22.2 No. 61010-1	GD-12	**45CJ95**
						CO	0 to 200 ppm		CM-12	**45CJ94**
						H2S	0 to 50 ppm		TX-12-HS	**45CK01**
						NH3	0 to 100 ppm		TX-12-AM	**45CJ99**
						NO2	0 to 20 ppm		TX-12-ND	**45CJ98**
						O2	0 to 25% vol.		OX-12	**45CJ96**
						REF	0 to 1000 ppm		RD-12	**45CJ97**
Gas Detectors for Fire/Security Systems										
Audible and Visual	32° to 120°F (0° to 48.9°C)	3⅛"	3⅛"	5⅛"	12 to 24VAC or 9 to 32VDC	C3H8, CH4	0 to 25% LEL	Designed to meet UL 2075, Sensitivity Tested Based on UL 1484	GD-2B	**36CF88**
	40° to 100°F (4.4° to 37.8°C)				9 to 32VDC	CO	0 to 400 ppm	Listed to UL 2075, Tested to UL 2075 Using UL 2034 Sensitivity Limits, CSFM Approved	CM-E1	**36CF95**
Visual	32° to 120°F (0° to 48.9°C)	5"	1⅝"	4"	12 to 24VAC/DC	C3H8, CH4	0 to 25% LEL	Listed to UL 2075, Sensitivity Tested Based on UL 1484, CSFM Approved	GD-2A	**36CF87**
						H2	0 to 10% LEL	N/A	HD-11	**36CF94**

Alarm Type	Operating Temp. Range	W	D	H	Std.	Mfr. Model	Item No.
Exhaust Fan Control Panels							
Audible and Visual	32° to 120°F (0° to 40°C)	10½"	2"	12½"	ETL Listed to UL 508A, CAN/CSA-C22.2 No. 14-13	DVP-120	**36CF90**
					ETL Listed to UL 508A, CAN/CSA-C22.2 No. 14-13, LADBS Approved	DVP-120LA	**36CF91**

MACURCO GAS DETECTION

Gas Detection Systems

Gas Detector/Controller/Transducers— Dual-relay electronic detection systems monitor gas concentrations. Automatic fan/louver/valve control helps maintain safe levels in parking garages, warehouses, and other commercial sites. 4-20mA current loop and alarm relay.

6-Series low-voltage units for boiler rooms, vehicle maintenance areas, kitchens, and battery rooms.

12-Series line-voltage systems with internal switching power supply mount to 4" x 4" electrical boxes.

Gas Detectors for Fire/Security Systems—Low-voltage electronic detectors connect to alarm controls.

Exhaust Fan Control Panels—Automatic controls provide up to 3 ventilation control zones, choice of sensor- or time of day-based control, and include drivers for external horn or strobe alarms. Lockable NEMA 1 enclosure with external keypad, externally visible status, system, and alarm indicators. Control up to 12 gas sensors (sold separately).


No. 4FKR5


No. 9M871


No. 1LYP4


No. 9TDL6


No. 9WTE8


No. 5URG3

Digital Sound Level Meters and Data Loggers

AMPROBE EXTECH INSTRUMENTS GA GRAINGER APPROVED WESTWARD

Type 2 meters are suitable for workplace and environmental noise measurements. Dual-range meters take environmental and workplace noise measurements and can be used for product evaluation/certification and audio system installation.

AMPROBE®

Designed to be used by safety engineers, health, industrial and safety officers, and quality control professionals to perform acoustic analysis and check for compliance with safety regulations. Meters use two different audio weighting filters: A weighting for general noise sound level, and C weighting for measuring sound level of acoustic material control. Features Min./Max. recording and Data Hold. Comes with carrying case, user manual, and 9V battery (installed).

EXTECH

Digital Sound Level Meter Kit

Good for noise ordinance enforcement, workplace noise surveys, and installing fire alarms and speaker systems, the kits pair Digital Sound Level Meter No. 9WTE8 with a 94dB sound calibrator to verify and calibrate meter operation.

Sound Level Data Logger

No. 1TZP3 Features adjustable alarm with visual indicator and data Hold. No. 9M871 instrument captures time stamp at selectable sampling rate. Manual or programmed start.

Sound Level Meter

No. 8ZRU0 provides real-time sound exposure level (SEL) and time-averaged (Leq) measurements on 4-digit LCD with analog bar graph. 9- to 25-pin gender changer, male and female voice. No. 9TDL6 tripod-mountable 6-range instrument has a background noise absorber mode for machine noise measurements. Analog bar graph and Min./Mmax. values. Optional software/cable package No. 3LYE6 is available on Grainger.com®.

Sound Level Meter with Display

2-range meter has backlit LCD.

Sound Level Monitor and Alarm

Bright LEDs alert user when sound level is too high or too low. Reads LEDs from 30m (100-ft). Continuous monitoring of sound level. Wall, desk, or tripod. User settable high or low limit (30 to 130dB).

DIGITAL SOUND LEVEL METERS

Use for general noise measurements and basic assessments. Feature analog bar graph with 50dB range updates every 40 msec, Min./Max. values over time, and AC analog output.

Item	Frequency Range	dB Range	Res.	Frequency Weighting	Response Time	Interface	Records Up To	Mfr. Model	Item No.
Amprobe									
Digital Sound Level Meter	31.5 to 8000 Hz	30 to 130	0.1dB	A and C	Fast/Slow	—	—	SM-10	**4FKR5**
Extech									
Digital Sound Level Meter Kit	31.5 to 8000 Hz	35 to 130	0.1dB	A and C	Fast/Slow	—	—	407732-KIT	**4CWR4**
	31.5 to 8000 Hz	35 to 130	0.1dB	A and C	Fast/Slow	—	—	407732-KIT-NIST	**4CWR5** *
Noise Dosimeter	20Hz to 8kHz	30 to 130	0.1dB	A, C, and Z	125ms, 1000ms	USB	10,000 in Dosimeter Mode	SL400	**52ZK78**
Sound Level Datalogger	31.5 to 8000 Hz	30 to 130	0.1dB		Fast/Slow	—	—	407760	**9M871**
Sound Level Meter	31.5Hz to 8KHz	30 to 130	0.1dB	A and C	Fast, Slow and Impulse	—	32,000 Records	407780A	**8ZRU0**
	31.5 to 8000Hz	30 to 130	0.1dB	A and C	Fast 200ms, Slow 500ms	SD Card and RS-232	20,000k Readings	SDL600	**13X123**
	31.5 to 8000Hz	30 to 130	0.1dB	A and C	Fast 200ms, Slow 500ms	SD Card and RS-232	20,000k Readings	SDL600-NIST	**13X124** *
	25Hz to 10kHz	30 to 130	1dB	A, C, and Flat	125ms, 1000ms, 10ms, 35ms	USB	1024 Data Points	407790A	**52ZK76**
	300 to 8000 Hz	40 to 130	0.1dB	A and C	Fast/Slow	—	—	407730	**1LYP4**
	31.5 to 8000 Hz	30 to 130	0.1dB	A and C	Fast/Slow	—	—	407750	**9TDL6**
Sound Level Meter w/ Display	31.5 to 8000 Hz	Low: 35 to 100 / High: 65 to 130	0.1dB	A and C	Fast/Slow	—	—	407732	**9WTE8**
Sound Level Monitor And Alarm	31.5 to 8000 Hz	30 to 130	0.1dB	A and C	Fast/Slow	Relay Output	—	SL130W	**1AEV5**
GA									
Digital Sound Level Meter	31.5 to 4000 Hz	40 to 130	0.1dB	A	Fast	—	—	5URG3	**5URG3**
	31.5 to 4000 Hz	40 to 130	0.1dB	C	Fast	—	—	5URG4	**5URG4**
Westward									
Digital Sound Level Meter	31.5 to 8000 Hz	30 to 130	0.1dB	A and C	Fast/Slow	Relay Output	—	5URG5	**5URG5**

NIST Certified.

Fluorescent Light Testers

No. 14L964—Tests lamps, ballasts, and lamp pin connectors for a complete 3-in-1 solution. A 2½-ft. fully retractable antenna provides extended reach. Audible and visual indicators provide easy feedback. Built-in LED work light.

No. 32ZN13—Performs all 5 essential lighting tests—lamp test, ballast test, noncontact voltage test, pin continuity test, and ballast-type test—with a single, easy-to-use tool. The bright indicator light and audible alert give you quick, easy-to-read results, so you know, in seconds, when your fluorescent lamps and ballasts need replacing. Saves you time and replacement costs.

Includes	Brand	Mfr. Model	Item No.
14L964 (2210-20) Fluorescent Lighting Tester, (1) Antenna Adapter, 4 AA Batteries, Manual, and Carrying Case	Milwaukee	2210-20	14L964
Holster, Detachable Rod Extender, (4)AA Batteries, English/Spanish/French	Fluke	FLUKE-1000FLT	32ZN13


No. 14L964


No. 32ZN13

Light Meters

No. 4FKR3—Portable, digital light meter measures visible light. Easy-to-use, one-handed operation. Silicon photodiode sensor and filter. Features include data Hold and Min./Max.

Nos. 13G531 and 15E590—Light meter data loggers record data (up to 20M records) in Excel® format for easy transfer to a PC for analysis. Selectable sample rate: 1 to 3600 sec.

Nos. 3MY54 and 2HZC2—EasyView™ light meters include large LCD with analog bar graph. Wide range ideal for use in bright daylight. Peak function captures short-duration flashes. Color- and cosine-corrected sensor. Features include Min./Max., data Hold, and zero for relative measurements.

Nos. 1AEV6 and 22DC07—Light meters with remote light sensor on 12" coiled cable. Feature backlit LCD with analog bar graph. Min./Max. feature stores highest and lowest readings; data Hold freezes reading in display.

Nos. 1M946 and 5ZT02—Heavy-duty light meter has four lighting type settings for enhanced accuracy. Precision photodiode and color correction filter. Features data Hold, Min./Max./Average, and percent reading of the differential from a reference point.

No. 1H153—Light meter measures light levels using a precision diode and color correction filter (cosine/color corrected). Features fast/slow response time and an analog output for capturing readings to a recorder.

No. 6NZG0—Digital meter is designed specifically for measuring light output from LED sources. Features include data Hold and Max. recording. With large, 3½-digit display and protective sensor cap.

Nos. 2ENE5 and 2ENE7—Light meters have all the same features as No. 2ENE4, with a built-in data logger that automatically stores up to 16,000 readings or manually stores/recalls up to 99 readings. Software helps transfer readings to a PC for analysis.

Nos. 30ZP39 and 30ZP40—UV-A/UV-C light meter data loggers designed to record and transfer data to PC for analysis. Sample rate: 1 to 3600 sec.; manually stores 99 readings. Suitable for blue light radiation hazards in welding, UV sterilization, phototherapy, graphic arts, photochemical matching, photo resist exposure, curing of inks, adhesives, and coatings.

No. 5URG1—Environmental light meter with data logging makes it easy to transfer and store data on PCs for future analysis. Additional features include Auto-Ranging, data Hold, and Min./Max.

No. 5URG0—Mini environmental light meter is a palm-sized, low-power consumption meter. Backlit LCD features Auto-Ranging and Max. Hold functions with low-battery alert.

Nos. 21YE34 and 21YE35—LED light meters both feature a 4000-count display. No. 21YE34 can be used to white LEDs and standard lighting. No. 21YE35 measures white and color LEDs (red, yellow, green, blue, purple), as well as standard lighting, and stores/recalls up to 99 records.

No. 4FKR4—Auto-ranging light meter measures visible light from a variety of light sources and illumination levels. Simple one-handed operation. Silicon photodiode sensor and filter. Features include data Hold, Min./Max., manual range, and zero function.


No. 4FKR3


No. 13G531


No. 3MY54


No. 1AEV6


No. 1M946


No. 2ENE5


No. 30ZP39


No. 5URG1


No. 5URG0


No. 21YE34


No. 4FKR4

Measuring Range	Res.	Accuracy	Interface	Cord Length	Auto Power Off	Battery Type	STANDARD Mfr. Model	STANDARD Item No.	NIST CERTIFIED Mfr. Model	NIST CERTIFIED Item No.
Light Meters										
Amprobe										
0 to 20,000Fc, 0 to 200,000 Lux	0.01 Fc or Lux	±3%	—	39"	Yes	9V	LM-100	**4FKR3**	—	—
Measuring Range to 200,000 Lux or 40,000 Foot Candles	1	±3% (Calibrated To Standard Incandescent Lamp 2856°K) and Corrected LED Day While-Light Spectrum ±6% Other Visible Light Sources	Yes	5 Feet	Yes	9V	LM-200LED	**6NZG0**	—	—
Extech										
0 to 10,000 FC, 0 to 100,000 Lux	0.1Fc/1Lux	±4%	SD Card and RS-232	39"	Yes	(6) AA	SDL400	**13G531**	SDL400-NIST	**15E590**
0 to 40,000 FC; 0 to 400,000 Lux	0.01 FC or 0.01 Lux	±3%	—	39"	Yes	(6) AAA	EA30	**3MY54**	EA30-NIST	**2HZC2**
	0.01 FC or 0.01 Lux	±5%	—	24"	Yes	9V	LT300	**1AEV6**	LT300-NIST	**22DC07**
0 to 200, 0 to 2000, 0 to 5000 FC; 0 to 2000, 0 to 20,000, 0 to 50,000 Lux	0.1/1/10 FC;1/10/100 Lux	±4% + 2 Digits FS	Built-in RS-232	45"	Yes	9V	407026	**1M946**	407026-NIST	**5ZT02**
0 to 5000 FC; 0 to 50,000 Lux	0.1 FC or 1.0 Lux	±5% ±2 Digits	—	45"	No	9V	401025	**1H153**	—	—
0.01 to 40,000 FC; 0.1 to 400,000 Lux	0.01 FC or 0.1 Lux	±5%	USB	39"	Yes	9V	HD450	**2ENE5**	HD450-NIST	**2ENE7**
2mW/cm2, 20mW/sq. cm.	0.001mW/sq. cm.	±4%	SD Card and RS-232	39"	Yes	AA	SDL470	**30ZP39**	SDL470-NISTL	**30ZP40**
GA										
0 To 2,000 FC, 0 To 20,000 Lux	0.001 Fc or 0.01 Lux	±3%	USB	—	Yes	9V	5URG1	**5URG1**	—	—
0 to 4000 FC, 0 to 40,000 Lux	0.1 Fc or 0.1 Lux	±5%	—	—	Yes	9V	5URG0	**5URG0**	—	—
LED Light Meters										
Extech										
0 to 40,000 FC; 0 to 400,000 Lux	0.01 FC or 0.1 Lux	±3%	—	—	Yes	(2) AAA	LT40	**21YE34**	—	—
	0.01 FC or 0.1 Lux	±3%	—	59"	Yes	9V	LT45	**21YE35**	—	—
Auto Ranging Light Meters										
Amprobe										
0 to 20,000Fc, 0 to 200,000 Lux	0.01 Fc or Lux	±3%	—	39"	Yes	9V	LM-120	**4FKR4**	—	—


No. 8AZF1


No. 8NDJ6


No. 3MY56


No. 8TLK5

VEE GEE | Reichert Technologies Analytical Instruments | EXTECH Instruments

Analog Refractometers

Measure the concentration of dissolved solids for a wide range of applications including food processing, laboratory, and machine cooling. Easy-to-operate instruments provide quick scale readings.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Benchtop - Brix						
0–95%, 1.3000-1.7000	Brix ±0.15, RI ±0.0003	No	Liquids, Glass, Plastic, and Film	VEE GEE	C10	**9RY63**
Handheld - Aqueous Solutions						
-50° to 0°C Propylene Glycol, -50° to 0°C Ethylene Glycol, 1.10 to 1.40 Battery Acid	±0.01	Yes	Measures the Concentration of An Aqueous Solution By Measuring Its Refractive Index	VEE GEE	CTX-1	**36TY16**
0 to 28% NaCl	±0.2%	No		VEE GEE	SX-2	**36TY13**
Handheld - Brix						
0-30	0.1	Yes	Beverages, Juices, Food Sweeteners	Reichert	137530L0	**16D191**
0-50	0.25	Yes		Reichert	137531L0	**8URH7**
0 to 20%	±0.1	Yes	—	VEE GEE	43012	**8CXU0**
0 to 10%	±0.1	No	Aqueous Solutions	VEE GEE	43009	**9F740**
0 to 10%	±0.1%	Yes	Sucrose	Extech	RF11	**4GGD6**
0 to 18% (10 to 30°C)	±0.2%	Yes	Lubricants/Cutting Fluids	Extech	RF12	**4GGD7**
0 to 30%	0.1, 0.0001	Yes	Food and Beverage, Chemical, Pharmaceutical, Industrial Cutting Fluids	Reichert	13754000	**8AZF1**
0 to 32%	±0.2%	No	Aqueous Solutions	VEE GEE	43001	**8NDJ6**
0 to 32%	±0.2	Yes		VEE GEE	43002	**8CYA4**
0 to 32% (10-30°C)	±0.2%	Yes	Sucrose (ATC)	Extech	RF15	**3MY56**
50-90	0.2	Yes	Beverages, Juices, Food Sweeteners	Reichert	137533L0	**9HR18**
58 to 92%	±0.2%	No	Aqueous Solutions	VEE GEE	43005	**8RKX6**
0 to 50%	±0.5	No	—	VEE GEE	43015	**8CXU1**
Handheld - Industrial Fluids						
0 to -48 C Ethylene Glycol, 0 to -48 C Propylene Glycol, 0-70 Ethylene Glycol, 0-61 Propylene Glycol, 1.100-1.400 Electrolyte Specific Gravity	0.55°C	Yes	Freeze Points Of Ethylene Glycol And Propylene Glycol, Concentration Of Ethylene Glycol And Propylene Glycol, Battery Electrolyte Specific Gravity And Charge Level	Reichert	137564L0	**16D196**
–60° to 32° Propylene Glycol Freeze Pt., –50° to 0° Ethylene Glycol Freeze Pt., 1.15 to 1.30 Spec. Gravity of Battery Acid	±2%	Yes	Measures the Freezing Point of Coolants and the Charge Condition of Batteries	Extech	RF40	**3MY57**
+32 to -60 F Ethylene Glycol, +32 to -60 F Propylene Glycol, 0-70 Ethylene Glycol, 0-63 Propylene Glycol, 1.100-1.400 Electrolyte Specifc Gravity	1°F	Yes	Freeze Points Of Ethylene Glycol And Propylene Glycol, Concentration Of Ethylene Glycol And Propylene Glycol, Battery Electrolyte Specific Gravity And Charge Level	Reichert	137584L0	**8TLK5**
1 to 60% Urea	±0.5%	No	Measures Diesel Exhaust Fluid	VEE GEE	URX-60	**36TY17**
Handheld - Salinity						
0 to 100% (Salinity), 1 to 1.07 (Specific Gravity of Seawater)	±1 ppt	Yes	—	VEE GEE	43036	**8CXU2**
0 to 100 ppt (Salinity)	±0.1%	Yes	Salt	Extech	RF20	**9PP82**

**** ATC = automatic temperature compensation.***


No. 8GUP3


No. 48ME39


No. 16D201

Reichert Technologies Analytical Instruments | VEE GEE

Digital Refractometers

Compact, handheld meters raise the bar for performance and value. Conveniently measure the concentration of dissolved solids in a variety of applications including food processing, laboratory, waste, water, and machine cooling. Provide numeric readings for precise measurements.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Handheld - Brix						
0.0-62.0% 1.3330-1.4465	±0.2%	Yes	Agriculture, Beverage, Beer, Food, Industrial, Wine	Reichert	13940000	**8GUP3**
0 to 50%	±0.2%	Yes	nD, Brix	VEE GEE	MDX-101	**48ME39**
0 to 100%	±0.2%	Yes	Seawater, Chlorinity, Specific Gravity, nD	VEE GEE	MDX-202	**48ME43**
0 to 95.0%	±0.1, 0.0001	Yes	Food and Beverage, Cosmetic, Pharmaceutical, Chemical	Reichert	13950000	**8RTH2**
Handheld - Industrial Fluids						
0.0-50.0 Diesel Exhaust Fluid (Urea)	0.1	Yes	Diesel Exhaust Fluid, Known As Def/Adblue/Arla/Aus32	Reichert	13940013	**16D199**
0° to -57° C Ethylene Glycol, 0° to -51° C Propylene Glycol, 1.000-1.463 Battery Electrolyte SG, 0° to -54° C Windshield Washer Fluid	0.3° C Glycol, 0.003 SG Battery Electrolyte, 1° C Windshield Fluid	Yes	Freeze Point of Ethylene Glycol, Freeze Point of Propylene Glycol, Battery Electrolyte Sg, Freeze Point of Windshield Washer Fluid	Reichert	13940029	**16D202**
32° to -70° F Ethylene Glycol, 32° to -60° F Propylene Glycol, 1.000-1.463 Battery Electrolyte SG, 32° to -65° F Windshield Fluid	0.5° F Glycol, 0.003 SG battery electrolyte, 2° F Winshield Fluid	Yes	Freeze Point of Ethylene Glycol, Freeze Point of Propylene Glycol, Battery Electrolyte Sg, Freeze Point of Windshield Washer Fluid	Reichert	13940014	**16D201**
Handheld - Salinity						
1.32 to 1.70 RI	0.02 Brix	Yes	Brix, Refractive Index	Reichert	14009000	**52HX78**
0 to 100%	±0.5%	Yes	Glycol Degrees F/C: Prop/ Ethyl Freeze Pt. Degrees F/C	VEE GEE	MDX-603F	**48ME48**

**** ATC = automatic temperature compensation.***

Find Buffer Solutions and ORP Standards on page 634 and on Grainger.com®

pH Testers

- LCD display
- Automatic buffer recognition
- Batteries included
- Select: Standard, Flat Surface, Spear, or Replaceable Electrodes
- All items are 1, 2, or 3 pt. calibration

EXTECH INSTRUMENTS · OAKTON INSTRUMENTS · YSI a xylem brand

Description	pH Range	pH Accuracy	ATC*	Temp. Range	Temp. Accuracy	Brand	Mfr. Model	Item No.
Waterproof pH Pen with Temp.	0.00 to 14.00	±0.2	Yes	32° to 122°F, 0° to 50°C	±1°F	Extech	PH60	**3VXN4**
Waterproof Palm pH Meter	0.00 to 14.00	±0.01	Yes	32° to 212°F, 0° to 100°C	±0.8°F	Extech	PH220-C	**5AY49**
Flat Surface Electrode	0.00 to 14.00	±0.01	Yes	23° to 194°F, -5° to 90°C	±1.8°F	Extech	PH100	**1MN58**
Refillable pH Meter	0.00 to 14.00	±0.01	Yes	23° to 194°F, -5° to 90°C	±1.8°F	Extech	PH110	**3UNV4**
pH Meter	0.0 to 14.0	±0.1	Yes	0° to 50°C	±0.5°C	Oakton	WD-35423-01	**56AT41**
Waterproof pH Testr 30	-1.00 to 15.00	±0.01	Yes	32° to 122°F, 0° to 50°C	±0.9°F	Oakton	WD-35634-30	**9KJ81**
pH Meter	-1.00 to 15.00	±0.01	Yes	0° to 60°C	±0.1°C	Oakton	35634-15	**443Z78**
	-1.00 to 15.00	±0.01	No	0° to 60°C	±0.1°C	Oakton	35634-25	**443Z83**
Waterproof pHTestr 10 BNC	0.00 to 14.99	±0.02	Yes	0° to 50°C	—	Oakton	WD-35634-14	**9CYL2**
pH Meter	0.00 to 14.00	±0.1 Within 10°C of Calibration, ±0.2 Within 20°C	Auto 0.0° to 100.0°C or 32.0° to 212°F	0.0° to 100°C	±0.3°C (±0.6°F)	YSI	PH10A	**25JY93**
Economical pH Waterproof Pocket Meter	0.00 to 14.00	±0.1 pH	Yes	—	±0.9°F	Oakton	3563405	**55EP42**

**** Automatic temperature compensation.***



No. 3VXN4 **No. 56AT41** **No. 1MN58**

Conductivity, TDS, and Salinity Testers

- LCD display
- Auto temp. compensation, except No. 1ZKY6

Waterproof testers feature high-accuracy, multiranging sensors with auto power off, data hold, low-battery indication and replaceable electrode module. Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0. Batteries included.

- Note: See page 628 for Conductivity Standards.

MULTIPARAMETER

No. 1ZKY6 stores up to 25 readings. Dual-display shows selected parameter and temp.

No. 5AY46 alerts user when electrode needs replacement and stores up to 25 readings. Electrode replacement alert. No. 3VXN7 includes pH buffers and conductivity standards.

Nos. 443Z79 to 443Z80, 443Z82, and 56AT42 are 3-in-1 testers that display readings simultaneously. Intuitive interface gives self-diagnostic error messages. No. 443Z79 immerses samples. No. 443Z80 draws or grabs samples.

EXTECH INSTRUMENTS · OAKTON INSTRUMENTS · OHAUS



No. 45MJ09 **No. 5AY46**

Description	Electric Conductivity Range	Electric Conductivity Accuracy	TDS Range	TDS Accuracy	Salinity Range	Salinity Accuracy	Operating Temp. Range	Temp. Accuracy	Calibration	Brand	Item No.
Conductivity Meters											
TDS/Cond. Meter	0 to 19.99 mS/cm	±1% F.S.	0 to 19.99 ppt	±1% F.S.	—	—	32° to 122°F	±0.9°F	1 pt.	Extech	**38W993**
Conductivity Meter	0 to 20 mS/cm	±1% Full Scale	—	—	—	—	32° to 122°F	±0.9°F	1 or 2 pt.	Oakton	**55EP43**
	0 to 1999 uS/cm	—	—	—	—	—	32° to 104°F	—	—	Ohaus	**45MJ03**
	0.0 to 199.9 uS/cm	—	—	—	—	—	32° to 104°F	—	—	Ohaus	**45MJ05**
TDS Meters											
TDS Meter	- 1999.9mV to + 1999.9 mV, - 1999mV to + 1999 mV	—	0 to 10 ppt	±1% Full Scale	—	—	32° to 122°F	±1% full scale	1 or 2 points	Oakton	**55EP44**
	—	—	0 to 1000mg/L	±2.5% F.S.	—	—	50° to 104°F	—	—	Ohaus	**45MJ09**
	—	—	0 to 1000mg/L	±2.5% F.S.	—	—	50° to 104°F	—	—	Ohaus	**45MJ11**
Salinity Meters											
Salinity Meter	±1999mV	—	—	—	0.0 to 10.0 ppt	±1% Full Scale	32° to 122°F	±0.9°F/0.5°C	1 pt.	Oakton	**55EP45**
	—	—	—	—	0 to 10.00 ppt, 10.01 to 70.1 ppt	±2% F.S.	32° to 122°F	±0.9°F/0.5°C	1 pt.	Extech	**25KC69**
	—	—	—	—	0 to 80 ppt	—	50° to 104°F	—	—	Ohaus	**45MJ13**
Multiparameter Testers											
ExStik® II TDS/Cond./ Salinity Pen	0 to 199.9 µS/cm, 200 to 1999 µS/cm, 2.00 to 19.99 mS/cm	±2% F.S.	0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt	±2% F.S.	0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt	±2% F.S.	32° to 149°F	±1.8°F	1, 2 or 3 pt.	Extech	**1ZKY6**
ExStik® pH/TDS/Cond./ Salinity Pen	0 to 19.99 mS/cm	±2% F.S.	0.1 ppm (mg/L) to 9.99 ppt (g/L)	±2% F.S.	0.1 ppm (mg/L) to 9.99 ppt (g/L)	±2% F.S.	32° to 149°F	±1.8°F/1°C	1, 2, or 3 pt.	Extech	**5AY46**
ExStik® pH/TDS/Cond./ Salinity Pen Kit	0 to 19.99 mS/cm	±2% F.S.	0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt	±2%	—	±2%	23° to 194°F	±1.8°F/1°C	1, 2 or 3 pt.	Extech	**3VXN7**
CTS Testr™ 50P Pin-Style Pocket TDS/Cond./Salinity Tester	0 to 200 mS/cm	±1% F.S.	0 to 100 ppm	±1% F.S.	0 to 10 ppt	±1% F.S.	41° to 113°F	±0.1°C	3 pt.	Oakton	**443Z79**
CTS Testr™ 50C Cup-Style Pocket TDS/Cond./Salinity Tester	0 to 200.0, 0 to 2000 µS; 0 to 20.0 mS	±1% F.S.	0 to 100 ppm	±1% F.S.	0 to 10 ppt	±1% F.S.	41° to 113°F	±0.1°C	3 pt.	Oakton	**443Z80**
CTS Waterproof Pocket Tester	0 to 20.00 mS/cm	—	0 to 10.0 ppt	—	0 to 10 ppt	—	32° to 122°F	—	1 to 3 pt.	Oakton	**55EP38**
PCTS Waterproof Pocket Tester	0 to 20.00 mS/cm	—	0 to 10.0 ppt	—	0 to 10 ppt	—	32° to 122°F	—	2 to 3 pt.	Oakton	**55EP40**
PCTS Testr™ 50 Pocket pH/ TDS/Cond./Salinity Tester	0 to 200 mS/cm	±1% F.S.	0 to 100 ppm	±1% F.S.	0 to 10 ppt	±1% F.S.	41° to 113°F	±0.1°C	3 pt.	Oakton	**443Z82**
Conductivity, Salinity, TDS	0 to 20 mS/cm	±2% F.S.	0 to 0.00002 ppm	±2% F.S.	0 to 10 ppt	±2% F.S.	—	±0.9°F	1 pt.	Oakton	**56AT42**

OAKTON INSTRUMENTS · EXTECH INSTRUMENTS · YSI a xylem brand

ORP, DO, and Chlorine Testers

- Waterproof
- For replacement sensors and accessories, go to Grainger.com®

Range	Accuracy	Operating Temp. Range	Temp. Accuracy	Brand	Mfr. Model	Item No.
ORP Testers						
0 to ±1000mV	1mV	—	±0.9°F	Oakton	3563454	**55EP36**
-1000 to 1000mV	±2mV	41° to 113°F	±0.1°C	Oakton	35634-45	**443Z81**
-999 to 999mV	±4 mV	—	—	Extech	RE300	**3VZG3**
ORP Pen Tester						
-1100 to 1100mV	1mV ±1 LSD	32° to 122°F	±0.3°C/±0.6°F	YSI	ORP15A	**25JY94**
Dissolved Oxygen Tester						
0 to 200.0%	±2% FS	32° to 122°F	±1.8°F	Extech	DO600	**5AY42**
Chlorine Tester						
0.01 to 10.00 ppm	±0.02 ppm	23° to 194°F	±1.8°F	Extech	CL200	**3MY51**

ORP Testers—Feature auto-off, memory, hold function, low-battery indicator, flat surface electrode, and replaceable electrodes. Auto electronic 1-pt. self-calibration with digital display and bar graph. IP57 floating housing. No. 25JY94 has an easy-to-read graphic display with on-screen instructions.

Dissolved Oxygen Tester—Has LCD with analog bar graph, salinity compensation up to 50 ppt, 1-pt. calibration, and adjustable altitude compensation up to 20,000 ft.

Chlorine Tester—Pocket unit quickly measures total residual chlorine in drinking and cooling water, wastewater, spas, and pools. Dual-display simultaneously shows ppm and temp. 1-pt. calibration.



No. 443Z81 **No. 3VZG3** **No. 25JY94**

Find Electrodes on page 630 and on Grainger.com®



500mL Bottle No. 8ENE7

LabChem performance through chemistry

Conductivity Standards

- NIST Certified

Description	Container Size	Item No.
84umho/cm	500mL	8ENE7
447umho/cm	500mL	9F454
500umho/cm	1L	9LFD4
717umho/cm	1L	8G148
1000umho/cm	1L	9F455
1409umho/cm	1L	9GT62
1500umho/cm	500mL	8UWK9
2000umho/cm	1L	8G150
2765umho/cm	1L	8ENE8
3000umho/cm	1L	8G151
5000umho/cm	1L	9LKP9
8974umho/cm	500mL	8ENE9
12,856umho/cm	1L	9RD29
15,000umho/cm	500mL	9WKA3
100,000 umho/cm	1L	9LKR0



No. 11L566

Handheld pH Meters

EXTECH INSTRUMENTS OAKTON INSTRUMENTS

All models have automatic temperature compensation.

EXTECH®

No. 4FB74—Flip-up case provides an adjustable viewing angle. Includes pH mini-electrode, temperature probe, neck strap, and low-battery indicator.

No. 4TXG4—Features automatic/selectable calibration, wide measuring range, and stores 200 sets of readings.

No. 11L566—Dual-display features min./max., data hold functions, and auto power off. Stores 20M readings on SD card with date and time stamp that transfers directly into Excel. Includes pH electrode, temp. probe, SD card, (6) AA batteries, and case.

OAKTON®

No. 45RK62—Waterproof meter provides pH or mV measurement simultaneously with temperature and calibration % slope. Memory of 150 data sets. Includes batteries.

No. 21E897—Gives high ±0.01 pH accuracy readings and has 3-pt. pH calibration with auto buffer recognition. Features push-button operation with hold function, and auto-off. Includes ATC probes, batteries, and protective rubber boot.

Nos. 55EP30, 55EP32 and 55EP34—Waterproof meters with dual line LCD.

Description	pH Range	pH Accuracy	ORP Range	ORP Accuracy	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.
Extech									
pH Meter Kit	0.00 to 14.00	±0.02	-999 to 999mV	—	32° to 212°F, 0 to 100°C	0.8°F	5 pt.	OYSTER-16	**4FB74**
pH/mV/Temp. Kit	-2.00 to 19.99	±0.02	-1999 to 1999mV	±0.15	32° to 212°F, 0 to 100°C	±1°F	3 pt.	PH300	**4TXG4**
pH/ORP/Temp. Kit	0 to 14pH	±0.02pH +2d	-1999 to 1999mV	±0.05% +2d	32° to 149°F, 0° to 65°C	±1.8°F/1°C	3 pt.	SDL100	**11L566**
Oakton									
pH 150 Meter	-2.00 to 16.00	±0.01	0 to 2000mV	—	-12° to 110°C	±0.9°F	USA, NIST	WD-35614-30	**45RK62**
pH 5+ Meter	0.00 to 14.00	±0.01 pH	—	—	Yes	(±) 0.5 C	Yes	WD-35613-52	**21E897**
pH Pocket Meter	-2.00 to 16.00	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt.	3563416	**55EP30**
pH Flat-Tip Pocket Meter	-2.00 to 16.01	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt.	3563446	**55EP32**
pH Spear-Tip Pocket Meter	-2.00 to 16.02	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt.	3563452	**55EP34**



No. 4WCJ5



No. 21E905

EXTECH INSTRUMENTS OAKTON INSTRUMENTS YSI a xylem brand

Handheld Conductivity Meters

- Automatic temperature compensation
- Auto power off
- Include conductivity cell and batteries

No. 21E905 has a protective rubber boot and comes with a conductivity probe K=1.0. No. 21E906 includes temperature probe K=1.0, calibration solutions, sample bottles, protective rubber boot, and carrying case.

Description	Electric Conductivity Range	Electric Conductivity Accuracy	TDS Range	TDS Accuracy	Salinity Range	Salinity Accuracy	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.	
Extech												
pH/Cond/TDS Meter	0.00 to 199.9mS	±1.5% F.S.	0 to 100 ppm	±1.5% F.S.	0 to 100ppt	±1.5% F.S.	32° to 122°F, 0° to 50°C	±1°F	1, 2 or 3 pt.	EC600	**4TXG5**	
Conductivity Meter	2000 µS/20.00 mS/100 mS	±2% F.S.	1200 ppm/12,000 ppm/66,000 ppm	±2% F.S.	—	—	32° to 122°F, 0° to 50°C	±0.8°C	1 pt.	EC210	**30XM71**	
pH/Cond/TDS Meter	10 to 19,990 µS	±2% F.S.	10 to 19,990ppm	±2% F.S.	0 to 10.00 ppt	±2% F.S.	32° to 194°F, 0° to 90°C	±2°F	1 pt.	341350A-P	**4WCJ5**	
Oakton												
Conductivity Meter	0 to 200 mS	1% F.S.	—	—	—	—	0° to 100°	(±) 0.5°C	Yes	WD-35604-00	**21E905**	
Conductivity Meter Kit		1% F.S.	—	—	—	—	0° to 100°	(±) 0.5°C	Yes	WD-35604-04	**21E906**	
pH/Cond/TDS Meter	0 to 200 ms/cm	±1% F.S.	0 to 200 ppt	±1% F.S.	0 to 50 ppt	±1% F.S.	-17° to 230°F	±1.0°F	Auto/Manual	WD-35630-12	**34CT80**	
YSI												
Cond/Temp Meter	0 to 200 mS/cm (Auto Range)	—	0 to 100g/L, Constant Range 0.30 to 1.00	—	0 to 70 ppt	±1% of Reading or 0.1 ppt	-5° to +55°C	±0.2°C	Yes	PRO30	**25JZ03**	*

**** Meter only.***



No. 5MLL6

Handheld Dissolved Oxygen Meters

- Automatic temperature compensation
- Include DO probe and batteries

EXTECH INSTRUMENTS OAKTON INSTRUMENTS YSI a xylem brand

Description	DO Range	DO Range Accuracy	Oxygen Concentration	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.
Extech								
DO Meter	0 to 20 mg/L	±0.4mg/L	0 to 100%	32° to 122°F, 0° to 50°C	0.8°C	Fresh Air	DO210	**30XM73**
DO Meter	0 to 20 mg/L	±0.4 mg/L	0 to 19.9 mg/L	32° to 122°F, 0° to 50°C	±1.5°F	1 pt.	407510	**4KC32**
Multi-function Meter	0 to 200%	±1.5%	0 to 40 mg/L	32° to 122°F, 0° to 50°C	1°F	Auto	DO700	**4TXG6**
Oakton								
DO Meter	0.0 to 20 mg/L (ppm)	(±)1.5% F.S.	0 to 200%	Yes	(±)0.5°C	Yes	WD-35643-12	**21E912**
DO Meter Kit	0.0 to 20 mg/L (ppm)	(±)1.5% F.S.	0 to 200%	Yes	(±)0.5°C	Yes	WD-35643-14	**21E913**
YSI								
Conductivity/ DO Meter	0 to 50 mg/L	±2% of the reading or ±0.2 mg/L (Whichever is Greater up to 20 mg/L), ±6% of Reading from 20 to 50 mg/L	0 to 500%	-5° to 55°C	±0.3°C	—	Pro2030	**5MLL6**
DO Meter	0 to 50 mg/L	0 to 20mg/L, ±2% of Reading or ±0.2mg/L, 20 to 50mg/L, ±6% of Reading	0 to 500% Air Saturation	-5° to 55°C EG11(0° to 45°C, DO Compensation Range for mg/L)	±0.2°C	Yes	Pro20	**25JZ15**
DO Meter	0 to 20 ppm	±2% of Reading or ±2% ppm	1 to 200%	-6° to 46°C, 21.2° to 114.8°F	±0.3°C ± 1 Digit	Back Up	ODO200CC-01	**35MM93**

Benchtop Water Quality Meters

Laboratory meters display selected parameter and temperature simultaneously. Automatic temperature compensation maintains reading accuracy.

PH METERS

Automatic buffer recognition for U.S. and NIST pH buffers.

Oakton®—Measure pH, temperature, and millivolts (mV). Memory for 100 data points. Accepts any pH or ORP electrodes with a BNC connector. Kit No. 6CAU6 includes meter, a single-junction all-in-1 temperature/pH electrode, and AC adapter. Kit No. 6CAU7 includes meter, double-junction pH electrode, temperature probe, electrode holder, and AC adapter. For more Oakton electrodes, see page 630.

pH Range	pH Accuracy	Calibration	Brand	Mfr. Model	Item No.
pH Meters					
0-14	—	—	Thermo	2115101	**8U378**
—	—	—	Oakton	WD-35419-12	**6CAU8**
-2 to 14	0.01	3 pt.	Thermo	STARA1110	**12L828**
—	—	—	Oakton	WD-35419-23	**6CAV2**
0.00 to 14.00	±0.01	5 pt.	Oakton	WD-35419-00	**6CAU5**
0.00 to 14.00	±0.01	5 pt.	Oakton	WD-35419-03	**6CAU6**
0.00 to 14.00	±0.01	5 pt.	Oakton	WD-35419-10	**6CAU7**
-2 to 16	±0.01	3 pt.	Thermo	STARA1115	**12L829**
-2 to 20	0.01	5 pt.	Thermo	STARA2110	**12L840**
-2 to 20	±0.01	5 pt.	Thermo	STARA2115	**12L841**

Thermo SCIENTIFIC OAKTON INSTRUMENTS

Thermo—Orion Star™ meters have AUTO-READ™ that locks in readings. Each includes a Triode™ 3-in-1 pH/ATC probe.

PH/CONDUCTIVITY METER

No. 6CAV4—Measures pH, mV, EC, and total dissolved solids (TDS). Autoranging automatically sets the best resolution for conductivity and TDS measurements. Automatic buffer recognition for both U.S. and NIST pH buffers. Includes pH electrode, conductivity/temperature probe, and probe stand.

CONDUCTIVITY METER

Read across 5 measurement ranges. Water-resistant membrane keypad.



pH Range	pH Accuracy	Electric Conductivity Range	Electric Conductivity Accuracy	Calibration	Brand	Mfr. Model	Item No.
pH/Conductivity Meter							
-1.99 to 16.00	±0.002	0.00 iS/cm to 200.0 mS/cm	±1% full scale	5 pt.	Oakton	WD-35413-00	**6CAV4**
Conductivity Meter							
—	—	0.00 uS/cm to 200.0 mS/c	±1% full scale	5 pt.	Oakton	WD-35411-00	**6CAV3**

pH Process Electrodes

- Flat tip
- 0 to 14 pH measurement range

600 Series—High-quality electrodes provide compatibility for harsh applications. Configurable for general purpose applications, low ionic conditions, or samples containing HF (hydrofluoric acid).

Note: Additional cable lengths are available; see Grainger.com®

Sensorex®

8000 Series—Modular, flat surface, self-cleaning S8000 platform features high-temperature electrolyte and enhanced ERP (extended reference path) technology that protects the reference in the presence of heavy metals, proteins, silver, and sulfides. Double junction provides extra protection in dirty applications. Ryton® PPS body.



No. 16Z014

Application	Connector	Mfr. Model	Item No.
600 Series			
Replacement Electrode, Self-Cleaning	BNR	S660CD	**16Z014**
Replacement Electrode, Insertion	BNR	S656CD	**16Z019**
Replacement Electrode	BNR	S651CD	**16Z016**
8000 Series			
pH Electrode	TNR	S8000CD	**16Z025**

Hydrometers

DURAC® THERMCO PRODUCTS, INC VEE GEE

DURAC

Made of lead-free ballast and glass. No. 12M017 features a built-in, mercury-free thermometer for measuring API. No. 8AMV6 is a dual-scale hydrometer used in the chemistry, pharmacology, food and beverage, starch, and similar industries. This serialized, plain form hydrometer is packaged with a multilanguage Statement of Accuracy indicating accuracy traceable to NIST. Use No. 8AVZ6 to determine specific gravity in battery acid. Nos. 46Z362, 13K183, and 46Z366 measure sodium chloride saturation of salt brines in food, fishing, and transportation industries.

Note: Enclosed thermometers should be used as a general reference only. For temperature-critical applications, a calibrated standard thermometer is recommended.

THERMCO

Individually serialized instruments are tested and calibrated by the manufacturer, and each is supplied with a statement of accuracy. Use a separate thermometer for taking temperature measurements, and correct for any temperature variations. Shatterproof polycarbonate construction.

VEE GEE

No. 20KL66 provides battery acid testing. Includes thermometer, glass syphon tube, rubber bulb, nozzle, and clamp. No. 20KL54 gives the ratio of the mass of a solid or liquid to the mass of an equal volume of distilled water.

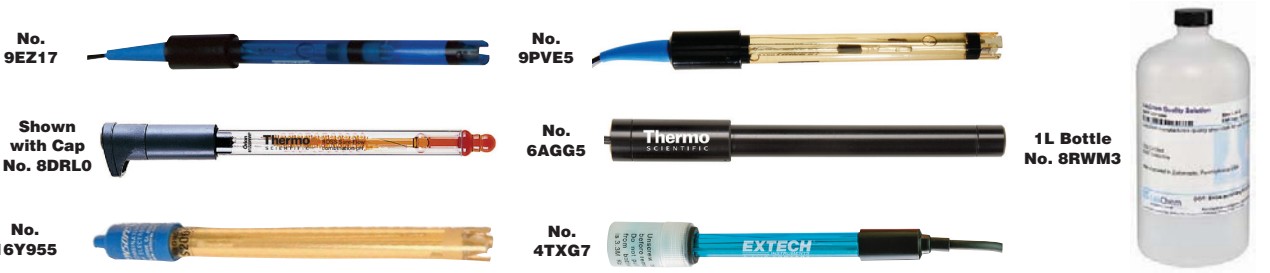
Application	Used For	Application	Used For
API	Petroleum products	Alcohol, Proof, or Ethyl Alcohol Proof	% ethyl alcohol
Baume	Syrups and other liquids denser than water	—	—
Specific Gravity	Density compared to water	Isopropyl Alcohol	% by volume



No. 20KL66

Application	Scale	L	Accuracy	Scale Divisions	Range	Temp. Range	Mfr. Model	Item No.
Durac								
API	API	381mm	±0.1 °	0.1°	39/51°	0° to 150°F	B61823-0400	**12M017**
Baume & Specific Gravity for Liquids Heavier than Water	Specific Gravity & Baume	165mm	±0.005 sp. gr.; ±0.5°baume	0.005 sp. gr.; 0.5° Baume	1.000/1.225 sp. gr. and 0/25° baume	60° to 60°F	B61806-0800	**8AMV6**
Specific Gravity	Specific Gravity	165mm	±0.005	0.005	1.150/1.300	77° to 77°F	B61809-0200	**8AVZ6**
	Specific Gravity	381mm	±0.002	0.002	1.000/1.220	0° to 150°F	B61821-0400	**12L997**
Salt Brine	Salt Brine by Saturation	300mm	±1%	0.01	10/100%	Salt Brine	B61800-0600	**46Z362**
	% by Weight Sodium Chloride	300mm	±0.5%	0.50%	0/26.5% by Weight	60° to 60°F	B61809-0100	**13K183**
	Salt Brine by Weight	300mm	±0.2%	0.0020	4/26.4%	Salt Brine	B61800-1000	**46Z366**
Thermco								
Baume	Baume	250mm	—	0.2	0/25	—	ACC8525PC	**32FY93**
Specific Gravity	Specific Gravity	300mm	—	0.002	1.000/1.220	—	ACC8540PC	**32FY73**
	Specific Gravity	300mm	—	0.002	0.695/2.000	—	GW3244SET	**32GC81**
	Specific Gravity	300mm	—	0.002	1.000/1.220	—	GW2540	**32GC39**
Salt	Salt	300mm	—	1.0	0/100%	—	GW2511	**32GD46**
	Salt	300mm	—	1.0	0/100%	—	ACC8511PC	**32FY76**
API ASTM	API ASTM	380mm	—	0.1	39/51	0° to 150°F	GW055HLS	**32FZ51**
VEE GEE								
Syphon	—	180mm	—	0.002	1.150/1.300	—	6605-5	**20KL66**
Specific Gravity	Specific Gravity	305mm	—	0.002	1.000/1.220	—	6603-1	**20KL54**

Scan. Order. Done.
Details on page A1.



Electrodes

- Find more electrodes and probes on Grainger.com®

Oakton®—Nos. 8AD42 and 9NNX5 are for water with heavy metals, organics, and sulfites. Nos. 9EZ17 and 9GFM1 for dirty water, heavy metals, and organics. No. 8UN13 is for high and low sodium levels.

Thermo Scientific—AquaPro™ No. 8FP12 is a clog-resistant electrode and is good for environmental and field testing of water and wastewater samples. No. 8XGJ3 is environmentally friendly, meets RoHs requirements. Contains no lead, mercury, or other hazardous substances.

Sure-Flow™ Nos. 8DRL1, 9CT13, 9JFA8 and 8DRL0 are free-flowing. For use in dirty or viscous samples.

Triode Nos. 9TJM3 and 9ANU6 have built-in temperature sensors. Use with TRIS buffers and proteins.

Flouride No. 6AGG5 measures free flouride ions in aqueous solutions.

Sensorex—Double-junction models are recommended for dirty applications.

Extech—No. 1MN59 measures for any application that requires direct contact such as food, paper, cement, and wet surfaces. No. 1H143 fits virtually any pH meter that accepts a BNC connector.

No. 3VXH4 replacement refillable pH electrode module aids in eliminating the problem of limited electrode shelf life, contamination, and usage life.

YSI—Digital pH electrode for high accuracy laboratory measurements. Sensor can be moved from instrument to instrument while maintaining its calibration data. For use in surface water, groundwater, coastal, aquaculture, and wastewater.

Description	Testing Parameter	pH Range	Body Material	Dia.	L	Junction	Tip Shape	Connector	Mfr. Model	Item No.
Oakton										
ORP Electrode	ORP		Epoxy	12mm	130 mm	Single	Round	BNC	35805-14	**9NNX5**
			ABS Plastic	26mm	152mm	Double	Round	BNC	WD-35805-24	**8AD42**
pH Electrode		0-14 pH	Epoxy	12mm	130 mm	Double	Round	BNC	WD-35805-06	**9EZ17**
			Glass	12mm	130 mm	Double	Round	BNC	35805-04	**9GFM1**
	pH		Glass	12mm	130 mm	Single	Round	BNC	WD-35801-78	**8UN13**
Direct Connect Electrode			Glass	12mm	130 mm	Single	Spear Tip	BNC	WD-35804-06	**8ACJ1**
pH Electrode		—	Epoxy	12mm	130 mm	Double	Round	OAKTON Connector	WD-35641-51	**8TR48**
Waterproof pH Electrode with ATC	pH/Temp	0-14 pH	Epoxy	12 mm	130 mm	Single	round	BNC	WD-35808-71	**9CLF5**
			Epoxy	12 mm	130 mm	Single	round	BNC/ATC OAKTON Connector	WD-35811-71	**9PVE5**
pH Electrode	pH	0-14 pH	Epoxy	13/32	4.3mm	Single	Round	BNC	WD-35805-05	**45FG85**
Thermo Scientific										
Electrode: pH			Epoxy	12mm	120 mm	Wick, Double	Standard	BNC	9156DJWP	**9FEG4**
			Epoxy	12mm	120 mm	Open double	Standard	BNC	9156APWP	**8FP12**
			Epoxy	12mm	120 mm	Wick, Double	Standard	BNC	GD9106BNWP	**8XGJ3**
Ceramic Junction pH Combination Electrode			Epoxy	12mm	120 mm	Sure-Flow, Double	Standard	BNC	9165BNWP	**8DRL1**
pH Electrode	pH	0-14	Glass	12mm	120 mm	Sure-Flow, Double	Standard	BNC	9172BNWP	**9CT13**
			Epoxy	12mm	120 mm	Sure-Flow, Double	Standard	BNC	8165BNWP	**9JFA8**
			Glass	12mm	120 mm	Sure-Flow, Double	Standard	BNC	8172BNWP	**8DRL0**
Electrode: pH			Epoxy	12mm	120 mm	Glass Fiber, Triode	Standard	BNC / Mini-Din	8157BNUMD	**9TJM3**
			Epoxy	12mm	120 mm	Wick	Standard	BNC / Mini-Din	9107BNMD	**9ANU6**
Fluoride Electrode	—	5 to 7	Epoxy	—	110mm	Single	—	—	9609BNWP	**6AGG5**
Sensorex										
	ORP (REDOX)	—	Epoxy	12mm	150mm	Single	Polished Tip	BNC	S500C-ORP	**16Y971**
			Glass	12mm	150mm	Single	Round	BNC	SG201C	**16Y978**
			Epoxy	12mm	150mm	Single	Round	BNC	S200C/BNC	**16Y955**
Electrode			Epoxy	12mm	150mm	Double	Round	BNC	S200CD/BNC	**16Y956**
	pH	0-14 pH	Epoxy	6mm	150mm	Single	Round	BNC	S900C	**16Y975**
			Epoxy	12mm	160mm	Double	Spear Tip	BNC	S175CD/BNC	**16Y954**
			Epoxy	15mm	115mm	Double	Flat	BNC	S450CD/BNC	**16Y970**
Self-Cleaning Electrode			CPVC	22.86 mm	76.20 mm	Double	Flat	BNR	S650CD	**16Z012**
Submersible Electrode	pH or ORP (REDOX)	—	CPVC	—	76.20 mm	Double	—	BNC	S653/25/BNC	**16Z018**
Extech										
Replacement Electrode			Polycarbonate	12mm	218mm	—	Bulb	—	6015WC	**3YTJ4**
Mini Electrode	pH		Polymer	10mm	127mm	—	Bulb	BNC	60120B	**1H143**
Replacement Electrode Module		0 to 14	Polycarbonate	16mm	38mm	—	Flat	—	PH105	**1MN59**
Replacement Electrode	pH, mV, Temperature		Polycarbonate	12mm	218mm	—	Bulb	—	PH305	**4TXG7**
Replacement Electrode Module	pH, Conductivity		Polycarbonate	16mm	38mm	—	Flat	—	EC505	**5AY47**
	ORP/Redox	—	Polycarbonate	16mm	38mm	—	Flat	—	RE305	**3VZG7**
Refillable Electrode Module	pH	0 to 14	Polycarbonate	16mm	38mm	—	Flat	—	PH115	**3VXH4**
Replacement Electrode Module	Total Chlorine	—	Polycarbonate	16mm	38mm	—	Flat	—	CL205	**3YEF4**
YSI										
			Plastic	12mm	120mm	Fiber	Cylinder	Digital	103740Y	**25KC46**
	pH	0.0 to 14.0 (±0.004)	Plastic	12mm	120mm	Fiber	Cylinder	Digital	103741Y	**25KC47**
			Plastic	12mm	120mm	Fiber	Cylinder	Digital	103750Y	**25KC48**
Probe			Glass	12mm	120mm	Platinum	Cone	Digital	103780Y	**25KC49**
			Stainless Steel	12mm	120mm	—	—	Digital	301720Y	**25KC53**
	Conductivity	—	Epoxy	12mm	120mm	—	—	Digital	301710Y	**25KC51**
			Epoxy	12mm	120mm	—	—	Digital	301711Y	**25KC52**

Description	Container Size	Mfr. Model	Item No.
Labchem			
Electrode Storage Solutions	500mL	LC140201	**8ET22**
	1L	LC140202	**8RWM3**
	4L	LC140204	**8FY10**



Reagent and Dispenser
No. 15F858



SMART Reagent System
No. 4EWA3

Lovibond LaMotte

Reagents for Water Quality Testing

- For use with colorimeters

Convenient, foil powder pack reagents come in a premeasured unit dose.

Description	For Use With	Brand	Item No.
Chlorine Testing, (250 Tests) Dispenser with Reagent Vial			
PD250 Dispenser, Free Chlorine	Colorimeter, Photometers	Lovibond	**15F858**
PD250 Dispenser, Total Chlorine		Lovibond	**15F861**
Chlorine Testing, DPD Indicator Powder, Free Chlorine Indicator Solution and Free Chlorine Buffer Solution			
Free Chlorine Reagent Set CL17 Analyzer	Colorimeter, Photometers	Lovibond	**15F863**
Chlorine Testing, Reagent			
DPD Free CL2 Reagent PP, 25 ml	Colorimeter, Photometers	Lovibond	**15F879**
DPD Free CL2 Reagent PP, 5 ml		Lovibond	**15F876**
DPD Total CL2 Reagent PP, 25 ml		Lovibond	**15F882**
DPD Total CL2 Reagent PP, 5 ml		Lovibond	**15F874**
Colorimeter Reagent			
Hydrogen Peroxide	1910 Multi-test Colorimeter	LaMotte	**3VZN8**
Powder Packs, Reagent			
Iron TPTZ Reagent PP, 10 ml	Colorimeter, Photometers	Lovibond	**15F886**
Molybdenum 1 LR Reagent, 20 ml		Lovibond	**15F897**
Sulfamic Acid PP		Lovibond	**15F925**
Sulfate 4 Reagent PP, 25 ml		Lovibond	**15F921**
Reagent Sets			
Ammonia HR Reagent Set	Colorimeter, Photometers	Lovibond	**15F960**
Ammonia LR Reagent Set		Lovibond	**15F959**
Iron (II,III) Soluble Reagent Set		Lovibond	**15F949**
LR Molybdate Reagent Set		Lovibond	**15F951**
Molybdate HR PP Reagent Set, 10 ml		Lovibond	**15F948**
Phosphonate Reagent Set		Lovibond	**15F946**
Silica LR Reagent Set, 10 ml		Lovibond	**15F961**
Total Phosphate Reagent Set		Lovibond	**15F945**
SMART Reagent System			
Chlorine, Bromine, Iodine	1910 Multi-test Colorimeter	LaMotte	**4EWA3**
Copper	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA4**
Fluoride		LaMotte	**4EWA5**
Iron		LaMotte	**4EWA6**
Nitrate Nitrogen (Low Range)	1910 Multi-test Colorimeter	LaMotte	**4EWA7**
Nitrite Nitrogen (Low Range)	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA8**
pH	1910 Multi-test Colorimeter	LaMotte	**4EWC5**
Phosphate (Low Range)	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA9**
Sulfide (Low Range)		LaMotte	**4EWC1**



No. 6CAT1



No. 3YRT2

Lovibond LaMotte

Colorimeters

Include sample cells, reagents, and batteries. For cuvettes, go to Grainger.com®.

Note: Copper Colorimeter No. 15F844 and IR interface module No. 15F849 are available on Grainger.com®.

Lovibond Single Parameter—Improve resolution for a specified range, account for known interferences, and calibrate to any government standard such as NIST or ISO. Accuracy: ±2% full scale. Memory: 16 data sets.

LaMotte Multiparameter—Allows 25 users tests with over 75 preprogrammed tests, including absorbance and %T modes. Memory: 500 data sets.

Lovibond Multiparameter—Offers more than 90 preprogrammed methods from alkalinity through zinc, and an additional 20 methods can be user-defined. Memory: 1000 data sets.

Type	Range	Brand	Mfr. Model	Item No.	REAGENT* REFILLS
Manganese	0.01 to 0.7 mg/L (Powder Reagents)	Lovibond	276105	**15F834**	3VXV7
Phosphate	0.06 to 2.5 mg/L (Powder Reagents)	Lovibond	276045	**15F840**	3VXU4
Silica	1 to 90 mg/L (Powder Reagents)	Lovibond	276116	**15F845**	3VXW1
Chlorine	0.02 to 2.00, 0.1 to 8.0 mg/L (Powder, Tablet Reagents)	Lovibond	276025	**15F829**	3VXT4, 15F878, 3VXT7, 15F881
	0.02 to 2.00, 0.1 to 8.0 mg/L (Powder Reagents)	Lovibond	276010	**15F828**	3VXT4, 3VXT7
Multi-Parameter	0 to 4 ppm	LaMotte	1910	**6CAT1**	4EWA3
	—	Lovibond	214020	**3YRT2**	3YEK4

**** Reagent refills available on Grainger.com®.***

LaMotte OAKTON INSTRUMENTS Lovibond EXTECH INSTRUMENTS

Turbidity Meters

Testers determine cloudiness of water; for drinking water, wastewater, and environmental applications.

Note: Calibration solutions available on Grainger.com®.

Nos. 490W91 and 490W92—LCD display and 500-point memory. Lithium ion rechargeable battery.

No. 9TD12—Sealed optical system has infrared light source and 4-point push-button calibration. Includes 4 primary standards and 3 cuvettes with light-shield caps.

No. 9NXP3—Has signal averaging and simple calibration.

No. 25KC71—2-point calibration with LCD display. Auto power off.



No. 9TD12

Description	Turbidity Range	Turbidity Resolution	Brand	Mfr. Model	Item No.
Waterproof Turbidity Meter, EPA	0 to 2000 NTU	0.01, 0.1, 1.0 NTU	LaMotte	2020t	**490W91**
Waterproof Turbidity Meter, ISO	0 to 2000 NTU	0.01, 0.1, 1.0 NTU	LaMotte	2020i	**490W92**
Waterproof Turbidity Meter	0 to 1000 NTU	0.01, 0.1, and 1 NTU	Oakton	WD-35635-00	**9TD12**
Portable Turbidimeter	100 to 1100 NTU	0.01 to 1100 NTU	Lovibond	194200	**9NXP3**
Turbidity Meter	0 to 50.00, 50 to 1000 NTU	0.01 NTU	Extech	TB400	**25KC71**

Water Quality Test Kits

LaMotte

Provide quick analysis of various water quality parameters. Additional refills are available on Grainger.com®.

Parameter	Range	Test System	No. of Tests	Mfr. Model	KITS Item No.	REAGENT REFILLS Item No.
Alkalinity	4 to 200 ppm	Titrimetric	50	4491-DR-01	**4EVT3**	**4EWE6**
Ammonia	1.0 to 8.0 ppm	Colorimetric	50	4795-01	**4EVX6**	**4EWD5**
Caustic	1 Drop 0.1% or 1% NaOH	Titrimetric	50	7181-01	**4EVY7**	—
Chlorine	0.2 to 3.0 ppm	Colorimetric	50	3308-01	**4EVX5**	**4EWC9**
Chlorine, High Range	1 Drop = 10 ppm	Titrimetric	50	4497-01	**4EVY3**	**4EWE7**
Chlorine Bleach	0.2 to 10%	Titrimetric	50	7105-03	**4EWD2**	**4EWE9**
Total Coliform	Presence/Absence	—	1	4-3616	**3UVC9**	—
Copper	0.05 to 1.0 ppm	Colorimetric	50	3619	**4EVY2**	**4EWE1**
Dissolved Oxygen	0.2 to 10 ppm	Titrimetric	50	5860-01	**4EVY6**	**4EWE8**
Hardness, Total	4 to 200 ppm	Titrimetric	50	4482-LI-02	**4EWC8**	**4EWE5**
Hardness, Total and Calcium	4-200ppm	—	50	4824-DR-LT-01	**3VER1**	**32WC34**
Iron	0.5 to 10.0 ppm	Colorimetric	50	4447-01	**4EVX7**	**4EWD6**
Nitrate-Nitrogen	1 to 15 ppm	Colorimetric	50	3354-01	**4EVX9**	**4EWD9**
pH	3.0 to 10.5	Colorimetric	100	5858-01	**4EVY5**	**4EVZ1**
Phosphate	1.0 to 10 ppm or 10 to 100 ppm	Colorimetric	50	4408-01	**4EWA2**	**4EWD7**
Pool Management	Free and Total Chlorine 0.2 to 3.0 ppm, pH 6.8 to 8.2, Total Alkalinity and Ca Hardness 60 to 400 ppm, Acid Demand Calculator	Colorimetric and Titrimetric	50 Chlorine, 20 Alkalinity and Ca Hardness	3368-01	**4EVY1**	—
QAC	10 to 500 ppm	Titrimetric	50	3043-DR-01	**4EWA1**	**4EWD4**
Sulfide	0.2 to 20 ppm	Colorimetric	50	4456-01	**4EVX8**	**4EWD8**



Chlorine
No. 4EVX5



Dissolved Oxygen
No. 4EVY6

Scan. Order. Done.
Details on page A1.



No. 3UDD2



No. 39J088

MICRO ESSENTIAL LABORATORY

pH Test Paper, Pencil, and Strips

Standard Test Kit includes two 15'L rolls of 7/32"W tape; one 0.0–6.0 pH roll and one 6.5–13.0 pH roll, with two color charts.

pH Pencil gives 30-sec. color match of acid or alkali residue on paper, lumber, concrete, cement, plasterboard, painted and prepainted surfaces, textile, ceramics, and skin.

Strips give instant, easy-to-read results, with bright, long-lasting single-color matches across the entire pH range.

Description	Range	W	No. of Tests	Item No.	Pkg. Qty.
pH Paper					
Mikro, PHydrion	0.0 to 13.0 pH	5/32"	100	**3UDD2**	1
Mikro Refill, PHydrion	0.0 to 13.0 pH	5/32"	500	**3UDD5**	5
Standard	0.0 to 13.0 pH	7/32"	100	**3UDD8**	1
Standard Kit Refill, PHydrion	0.0 to 6.0 pH	7/32"	500	**3VDT7**	5
	6.5 to 13.0 pH	7/32"	500	**3VDU1**	5
Standard Test Kit	1.0 to 13.0 pH	7/32"	100	**3VDT4**	1
Midget Dispenser Kit	0.0 to 14.0 pH	7/32"	600	**3VDZ4**	1
Jumbo	0.0 to 13.0 pH	1/2"	300	**3UUT1**	1
Jumbo Refill	0.0 to 13.0 pH	1/2"	300	**3UUT4**	1
pH Pencil					
Pencil	0 to 13 pH		3	**9L411**	3
pH Strip					
Peracetic Acid	0, 10, 30, 60, 80, 160 ppm	1/4"	50	**39J088**	1
Hydrion Spectral	0 to 14 pH	1/4"	1	**6EGF0**	100
	5.5 to 8 pH	1/4"	1	**6EGF1**	100
	6.5 to 13 pH	1/4"	1	**6EGF2**	100
	5 to 9 pH	1/4"	1	**6EGF3**	100
	0 to 6 pH	1/4"	1	**6EGF4**	100
Test Papers, 15' Roll					
Chlorine	10, 50, 100, 200 ppm	5/32"	100	**3UDC2**	10
Quaternary Ammonium	0, 100, 200, 300, 400 ppm	7/32"	100	**3UDA5**	10
Quaternary Ammonium, Single Dispenser	0, 200, 400, 600, 800, 1000 ppm	7/32"	100	**3UDF5**	10
Quaternary Ammonium, Double Dispenser	0, 200, 400, 600, 800, 1000 ppm	7/32"	100	**3UDE5**	10
Test Paper Refills, 15' Roll					
Chlorine	10, 50, 100, 200 ppm	5/32"	100	**3UDC5**	10
Quaternary Ammonium	50, 100, 200, 400 ppm	7/32"	100	**3UDA8**	50
	0, 200, 400, 600, 800, 1000 ppm	7/32"	100	**3UDG2**	50

RICCA CHEMICAL COMPANY

pH Chemical Test Strips

Identify chemicals immediately by dipping strips into solution.

Range	Item No.	Pkg. Qty.
0 to 6 pH	**45D964**	100
0 to 14 pH	**45D963**	100
2 to 9 pH	**45D967**	100
4.5 to 10 pH	**45D965**	100
7 to 14 pH	**45D966**	100



No. 45D963



No. 4KEJ5

Hazardous Chemical Test Kits

Easy-to-use, color-change test strips quickly identify chemicals.

Description	Range	No. of Tests	Mfr. Model	Item No.
Arsenic Test Kit	0, 5, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 400, 500 ppb	100	481396	**4KEJ4**
	3, 6, 8, 10, 12, 15, 19, 24, 30, 40, 50, 60, 70, 80, >80	50	481297-I	**4KEJ5**
Paint Test Kit	0.05, 0.2, 0.4, 0.6, 0.8, 1.0, and 1.2 mg/cm2	2	487925-V	**9CHX5**



LSS

pH Stick

Gives a quick 1-dip single-color match for each pH value. The extra long and wide strip eases use when wearing gloves and helps keep you away from potentially hazardous spills.

Range	Item No.	Pkg. Qty.
0.0 to 13.9 pH	**8ZDP7**	25



LaMotte

ITS

Test Strips

Packaging includes a color chart. Paper and Refills come in 15-ft. lengths. Strips make onsite testing easy and economical.

Testing Parameter	Range	No. of Tests	Brand	Item No.
Ammonia	0 to 6 ppm	25	LaMotte	**41V897**
Chlorine	10, 50, 100, 200 ppm	200	LaMotte	**4EWC7**
Chlorine Dioxide	0, 10, 25, 50, 100, 250, 500 ppm	50	LaMotte	**4EVX3**
Chlorine Sanitizer	0, 1.0, 3.0, 5.0, 10, 12, 15, 20, 40, 80 ppm	50	ITS	**3VFJ4**
Chromium	Less Than 0.1, 0.25, 0.5, 1, 2.5, 5, 10, 25, 50 ppm	50	ITS	**3UCX8**
Copper	0, 0.05, 0.1, 0.2, 0.4, 1, 2 ppm	25	ITS	**3UCW2**
Free and Total Chlorine	0.0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm	50	ITS	**3VFK6**
Free Chlorine	0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2, 2.6, 4, Greater Than 6 ppm	50	ITS	**3UEH2**
	0, 0.25, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 20, 25 ppm	50	ITS	**3VEU7**
	0, 0.5, 1, 3, 10 ppm	25	LaMotte	**4EVZ5**
	0, 25, 50, 100, 200, 300, 400, 500, 750 ppm	50	ITS	**3VEV1**
	0, 50, 100, 250, 500, 800 ppm	50	LaMotte	**4EVX4**
	0.0, 0.05, 0.1, 0.2, 0.4, 0.5, 0.8, 1.0, 2.0, 5.0 ppm	50	ITS	**3VET7**
	0 to 10 ppm	25	LaMotte	**41V898**
	1.0, 5, 10, 20, 40, 80, 120 ppm	50	ITS	**3VEU4**
Hydrogen Peroxide	0, 15, 30, 50, 90 ppm	25	LaMotte	**4EVU6**
Hydrogen Sulfide	0, 0.3, 0.5, 1.0, 2.0 ppm	30	ITS	**3VFJ7**
	0, 5, 10, 20, 30, 40, 50, 60, 80 ppm	50	ITS	**3VFK1**
Iodine	0, 5, 10, 15, 20, 30, 40, 50, 75, 100, 150, 200, 250, 300 ppm	50	ITS	**3VEW4**
	0.0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm	50	ITS	**3VEW1**
	12, 25, 50, 100 ppm	200	LaMotte	**3UEG5**
Iron	0.0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1.0, 2.0, 5.0 ppm	30	ITS	**3VEX1**
Lead	0 to 15 ppb	2	ITS	**3VFL4**
Lead Solid	0, 100, 200, 300, 400 ppm	5	ITS	**3VEX4**
Manganese	0, 0.05, 0.1, 0.2, 0.4, 1.0, Greater Than 1.6 ppm	24	ITS	**3UEG8**
Nitrate	0, 20, 40, 80, 160, 200 ppm	25	LaMotte	**41V896**
	0, 5, 10, 25, 50 ppm	50	LaMotte	**4EVU9**
Nitrate, Nitrite, Total Alkalinity, pH and Total Hardness	Nitrate: 0, 20, 40, 80, 160, 200 ppm; Nitrite: 0, 0.5, 1, 3, 5, 10 ppm; Total Alkalinity: 0, 40, 80, 120, 180, 240 ppm; pH: 6 6.5, 7, 7.5, 8, 9; Total Hardness: 0, 30, 60, 120, 180 ppm	25	ITS	**3UCY8**
Nitrate/Nitrite Nitrogen	Nitrate: 0.0, 0.5, 2.0, 5.0, 10, 20, 50; Nitrite: 0.15, 0.3, 1, 1.5, 3, 10 ppm	50	ITS	**3VEX7**
	Nitrate: 0.0, 0.5, 5, 10, 20; Nitrite: 0.15, 0.3, 1.0, 3.0, 10.0 ppm	30	ITS	**3VEY1**
Ozone	0.0, 0.05, 0.1, 0.2, 0.3, 0.4, Greater Than 0.5 ppm	50	ITS	**3UCW5**
Peracetic Acid	0, 10, 20, 50, 85, 160 ppm	50	LaMotte	**4EVX2**
Peroxide	Less Than 0.5, 2.0, 5.0, 10, 25, 50, 100 ppm	50	ITS	**3VEW7**
Peroxide Check	0.05, 0.3, 0.5, 1.0, 2.0, 4.0 ppm	50	ITS	**3VFL7**
Pesticide	3 to 4 ppm	2	ITS	**3TRC6**
pH, Total Alkalinity, Free Chlorine, Total Chlorine and Total Hardness	pH: 6.2, 6.8, 7.2, 7.8, 8.4; Total Alkalinity: 0, 40, 80, 120, 180, 240 ppm; Total and Free Chlorine: 0, 0.5, 1, 2, 4, 10 ppm; Total Hardness: 0, 25, 50, 120, 250, 425 ppm	50	ITS	**3UCX5**
pH and Total Alkalinity	pH: 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 11.0; Total Alkalinity: 0, 40, 80, 120, 180, 240, 720 ppm	50	ITS	**3VEY7**
Phosphate	0, 200, 400, 600, 1000, 2500 ppb	50	ITS	**21VK57**
QAC	50, 100, 200, 400 ppm	100	LaMotte	**4EVU1**
Sensafe Free Chlorine	0.0, 0.05, 0.1, 0.2, 0.4, 0.8, 1.0, 1.2, 1.6, 2.0, 3.0, 4.0, 5.0, 6, 7, 8, 9, 11, 15, 20, 25 ppm	50	ITS	**3VFK3**
Silver	50, 100, 250, 500, 1000 ppb	50	ITS	**3UCW8**
Total Chlorine	0, 5, 10, 20, 30, 40, 60, 80 ppm	50	ITS	**3VEV7**
	0.0, 0.05, 0.075, 0.1, 0.125, 0.15, 0.175, 0.2, 0.3, 0.5, 0.8, 4.0, 10.0 ppm	50	ITS	**3VFK9**
Total Hardness	0, 40, 80, 120, 180, 250, 425, 1000 ppm	50	ITS	**3VEZ4**
	0, 40, 80, 120, 180, 250, 425, 1000 ppm	30	ITS	**3VEZ7**
Zinc	0, 2, 5, 10, 20, 40, 100 ppm	50	ITS	**3UCY5**

Automatic Water Samplers

- Peristaltic sampling pump: flow rate 1Lpm at 4 ft. head
- 15 sample sizes from 15mL to 2L
- Pickup hose: 15-ft. reinforced PVC tubing, ¼" I.D.
- Stainless steel strainer

Description	Mfr. Model	Item No.
Samplers		
Single Bottle Water Sampler, 2-gal.	WS700	**36K444**
Refrigerated Single Bottle Water Sampler, 2-gal.	WS700R	**36K448**
Dual Bottle Water Sampler, (2) 1-gal.	WS750	**36K445**
Sampler Accessories		
Stormwater Sampling Kit; Includes Rain Sensor, Flow Sensor, Auto-Drain Rain Gauge Rain Sensor, Flow Sensor, and Rain Gauge	WSSWK	**8EPH9**
Sample Bottle,	00-835	**8NK17**
Flow Probes		
Flow Probe with 2.5 to 5.5 ft. Extendable Handle	FP311	**36K455**
Flow Probe with 3.7 to 6 ft. Extendable Handle	FP111	**36K453**
Flow Probe with 5.5 to 14 ft. Extendable Handle	FP211	**36K454**

Global Water
a xylem brand

Systems take composite and discrete samples for wastewater, industrial, and environmental applications. Size and interval controls set the individual time-weighted composite samples or full-bottle discrete grab samples. An external-trigger mode controls sampling from a water level sensor, rain sensor, or other external source (not included). Automatic 15-sec. backflush cycle clears debris from the strainer and empties water from the hose to prevent contaminating the next sample.

Dual-bottle sampler has 2 pumps and allows user to set sampling mode for each pump and bottle individually.



No. 36K445



No. 9ACZ5

Biodegradable Dye Tracers

Fluorescent dyes make water flow patterns easy to see, track, and map in lakes, reservoirs, septic systems, piping, and other bodies of water. Bright, vivid colors are easily detected in clear, deionized water in the range of 100 ppb of active ingredient—or just 10 ppb under a handheld laboratory black light (UV).

Description	Size	Color	Concentration @ 1 PPM	Item No.	Pkg. Qty.
Dye Tracer Liquid	16 oz.	Red	1 pt. to 6250 gal.	**8NDU0**	1
	16 oz.	Yellow/Green	1 pt. to 12,500 gal.	**8ACL5**	1
	1 gal.	Red	1 pt. to 6250 gal.	**8RF22**	1
	1 gal.	Yellow/Green	1 pt. to 12,500 gal.	**8TNY0**	1
	1 gal.	Blue	1 pt. to 12,500 gal.	**9JY17**	1
Dye Tracer Powder	1 lb.	Fluorescent Yellow/Green	1 lb. to 120,000 gal.	**8CV78**	1
	1 lb.	Fluorescent Red	1 lb. to 60,400 gal.	**9DTY7**	1
	1 lb.	Fluorescent Blue	1 lb. to 120,000 gal.	**8ZE47**	1
Dye Tracer Tablet	200 Tablets	Blue	20 gal./Tablet	**9CH32**	200
	200 Tablets	Fluorescent Orange	35 gal./Tablet	**8UL06**	200
	200 Tablets	Fluorescent Red	60 gal./Tablet	**8ACL4**	200
	200 Tablets	Fluorescent Yellow/Green	60 gal./Tablet	**9ACZ5**	200

Dynalon Labware
quality . value . service

Dippers

- Will not rust or corrode

Lightweight, durable dippers for collecting samples from streams, tanks, drums, and other hard-to-reach areas. HDPE dippers provide excellent chemical resistance—and float. Molded graduations and dual-pouring spouts to make it easier to take samples from large tanks.



No. 3KWF6

Capacity	Graduation Subdivisions	Handle	Item No.
500mL	50mL	3'	**3KWF6**
500mL	50mL	6'	**3KWF9**
500mL	50mL	12'	**3KWG3**
1000mL	100mL	6 ft.	**9PWR1**
1000mL	100mL	12'	**9J093**

environmental TEST PRODUCTS



No. 9MFC5

Disposable Bailers

- For nylon twine, see page 1097
- For sample vials, see page 657

EcoBailer—Clear PVC models allow visual inspection of well samples. They sink rapidly without requiring additional weighting material. Longer bottom spout helps prevent silt from interfering with check ball and causing potential leakage. A custom emptying device regulates discharge flow. High-density polyethylene models are designed with a thick tube wall that is less likely to bend when handled.

EcoBailer Pro—Hydrodynamic design with wide spout opening for fast sink rate while minimizing dissolved oxygen in the well sample. Easy-to-handle emptying device provides more accurate control of liquid flow into the sample bottle. Pour spout and ball retainer allow easy pouring from top of bailer.

Cap.	Dia.	L	Item No.	Pkg. Qty.
EcoBailer				
Clear PVC				
67ml	0.7"	12"	**9EWZ2**	48
199mL	0.7"	36"	**8UTV6**	24
347mL	1½"	12"	**9MFC5**	48
1027mL	1½"	36"	**8D591**	24
1365mL	1½"	48"	**8DA80**	24
5100mL	3.3"	36"	**9MFD0**	8
Clear PVC, Weighted				
1027mL	1½"	36"	**8DA81**	24
1365mL	1½"	48"	**9NRJ9**	24
High-Density Polyethylene				
347mL	1½"	12"	**9KEY8**	48
513mL	1½"	18"	**9LGC2**	48
1027mL	1½"	36"	**8D590**	24
High-Density Polyethylene, Weighted				
513mL	1½"	18"	**9R130**	48
Polyethylene, Weighted				
1027mL	1½"	36"	**9EWY9**	24
EcoBailer Pro				
Clear PVC				
1027mL	1½"	36"	**36C774**	24
1365mL	1½"	48"	**36C775**	24
Clear PVC, Weighted				
1027mL	1½"	36"	**36C776**	24
1365mL	1½"	48"	**36C777**	24
Clear PVC, Hydrocarbon Recovery				
1027mL	1½"	36"	**36C779**	24
VOC Tips				
Tip for EcoBailer Pro Bailers	1½"	3"	**36C778**	24

CONBAR Bomb Samplers

Use to extract liquid samples at specific depths from tanks, lakes, ponds, wells, etc. Composite sampler can be used to collect an average sample of a tank's contents.

Description	Cap.	Dia.	L	Item No.
Stainless Steel	125mL	1⅛	15	**3KWL6**
Stainless Steel	500mL	2½	11	**3KWD9**
Brass/Bronze	16 oz.	2½"	12"	**3KWJ3**
Composite, Brass/Bronze	16 oz.	2½"	12"	**3KWH9**

No. 3KWL6



WHEATON®

Drum Sampler

Draws and collects sample in one step to simplify sampling unknowns from drums and tanks. Filling ports are located above the screw-in bottle for a complete fill without trapped air. Chemical-resistant polypropylene sampler protects users from exposure to drum contents. 43½"L. Complete with 125mL borosilicate glass bottle with PTFE-lined cap.



Description	Item No.
E-Z Sampler	**8Z958**

Scan. Order. Done.
Details on page A1.



Over 47,000 Lab Chemicals available on Grainger.com®

Ensure that your laboratory has all of the chemical supplies and equipment necessary to perform accurate experiments and testing. Find a comprehensive line of buffers, acids, bases, solvents, and reagents. Shop our lab chemicals, supplies, equipment, and instruments to help you get your job done accurately and safely. Go to grainger.com/lab chemicals

Chemicals

LSS®

Concentration	Container Size	Item No.
pH Buffer Solutions		
pH 1.0	500mL	**9NW46**
pH 1.07	500mL	**8G328**
pH 1.68	4L	**3TWH3**
pH 2.0	20L	**8G639**
pH 2.0	500mL	**9LL54**
pH 3.0	4L	**9JAX1**
pH 4.0	500mL	**4YMH7**
pH 4.0	4L	**4YMH8**
pH 4.0	20L	**8YNV5**
pH 5.0	500mL	**8FZK6**
pH 6.0	500mL	**8FZL0**
pH 6.40	500mL	**8FKK5**
pH 6.86	10L	**8XNY7**
pH 7.0	500mL	**4YMH9**
pH 7.0	4L	**8GHD4**
pH 7.0	20L	**8GHD5**
pH 7.38	500mL	**9LLR4**
pH 7.40	4L	**8GGT2**
pH 7.70	20L	**9AMX9**
pH 8.0	500mL	**8TW85**
pH 9.0	500mL	**8FX51**
pH 9.18	4L	**8YM72**
pH 10.0	500mL	**4YMJ1**
pH 10.0	4L	**9LMR9**
pH 10.0	20L	**8RZA2**
pH 11.0	500mL	**8GE98**
pH 12.0	1L	**8XNX2**
pH 12.45	500mL	**8VY35**
pH 13.0	10L	**8GEA0**
Buffer Solution Kits		
pH 4.0, 7.0, 10.0	20mL	**7YL05**
pH 4.0, 7.0, 10.0	500mL	**7Y379**
ORP Standards		
200 mV	500mL	**8ELA2**
475 mV	500mL	**9UEL4**
400 mV	500mL	**9APL4**

Chemicals

LabChem performance through chemistry

Description	Container Size	Item No.
Acetic Acid, Glacial, ACS	2.5L	**9LKN9**
Acetone	1 gal.	**6CHJ2**
Acetonitrile, HPLC	4L	**8MWK1**
Ammonium Molybdate, Tetrahydrate, ACS	500g	**8EKM0**
Citric Acid, 10% w/v	4L	**8FV46**
EDTA, 0.0575M (0.115N)	4L	**8NLH9**
Ferric Chloride Hexahydrate, ACS	500g	**9LUF3**
Ferrous Ammonium Sulfate 0.4N (0.4M)	4L	**8XMW6**
Glucose-Glutamic Acid	6mL	**8PWY6**
Glycerin	1L	**8G477**
Hexanes, ACS	4L	**8ZP15**
Hydrochloric Acid, ACS	2.5L	**8WAU4**
Hydrogen Peroxide, 30% w/w	4L	**8TWA8**
Iodine, 0.1N (0.05M)	4L	**8V654**
Isopropanol	1 gal.	**6CHJ4**
Isopropyl Alcohol, ACS (2-Propanol)	20L	**5CVX4**
Isopropyl Alcohol, 70% v/v	4L	**5CVU5**
	20L	**9LLP4**
Kerosene, Odorless	4L	**8YMN3**
Methanol, HPLC	4L	**8MWK0**
Murexide Indicator, Dry Form in NaCl	500g	**9APM8**
Nitric Acid, ACS	2.5L	**8WCK3**
Perchloric Acid, 0.1N (0.1M)	4L	**9GU87**
Phosphoric Acid, ACS	2.5L	**8NLF5**
Potassium Chloride, ACS	500g	**4YMG1**
Potassium Hydroxide, 0.5N (0.5M) in Ethanol	4L	**8XND3**
Potassium Iodide, ACS	500g	**4YMF7**
Reagent Alcohol	4L	**9VZW8**
Silver Nitrate, 0.1N (0.1M)	4L	**5CVU8**
Sodium Hydroxide, 10% w/w	200L	**9WT46**
Sodium Thiosulfate, 0.1N (0.1M)	4L	**4YMG7**
Sulfuric Acid, ACS	2.5L	**8ELC6**
TCLP Extraction Fluid #2	20L	**8GGR2**
TISAB II	4L	**8EPE5**
Toluene, ACS	4L	**9CZ24**
Water, Deionized (ASTM Type II)	4L	**4YMH2**
	10L	**8FV27**
	20L	**4YMH3**
	200L	**8GDA7**
Xylenes, ACS	4L	**8W903**

Chemicals

SIGMA-ALDRICH

Description	Container Size	Item No.
Acetone	500mL	**45ZZ78**
Ammonium Citrate Dibasic	500g	**45ZR87**
Antifoam B Emulsion	500mL	**45ZY03**
Bovine Serum Albumin	100g	**45ZV32**
Bromocresol Green Sodium Salt	25g	**46AA99**
Butanol	1L	**46AA25**
Ascarite II Carbon Dioxide Absorbent	500g	**45ZE59**
Carbon Disulfide	1L	**46AA26**
Hydranal-Coulomat A Anolyt	500mL	**45ZK70**
Cycloheximide Solution	10mL	**45ZL76**
Diethylene Glycol Dibutyl Ether	1L	**45ZZ45**
Dimethyl Sulfoxide	500mL	**46AA03**
Dioctyl Sulfosuccinate	500g	**45ZE58**
Dodecane	500mL	**45ZW01**
D-Sorbitol	10kg	**45ZF25**
Ethyl Acetate	2L	**46AA29**
Ethyl Alcohol Pure 200 Proof	1L	**46AA23**
Histopaque 10771	100mL	**45ZW21**
L-Cysteine	100g	**45ZU77**
Ludox Hs-40 Colloidal Silica	1L	**45ZJ88**
Methanol	2L	**46AA18**
Methyl-Pyrrolidinone	1L	**45ZV97**
Mineral Oil	7.5mL	**45ZU46**
N-(1-Naphthyl)Ethylenediamine	100g	**45ZT20**
O-Xylene	4L	**46AA42**
Paraffin Wax Mp 58-62C	1kg	**45ZZ41**
Phosphoric Acid	100g	**45ZY48**
Propanol	4L	**46AA10**
Proteinase K	100mg	**45ZH81**
Pyruvate Kinase, Lactic Dehydrogenase Enzymes	5mL	**45ZZ15**
Sodium Methoxide Solution In CH3ONa	800mL	**45ZX55**
Tert-Butanol	2L	**46AA24**
Tetrahydrofuran	1L	**45ZZ96**
Thionyl Chloride	1L	**45ZX50**
Triethylamine	1L	**45ZU71**

Chemicals

spectrum® CHEMICAL MFG CORP

Description	Container Size	Item No.
2,2,4-Trimethylpentane	4L	**39H363**
Acetonitrile, Exceeds A.C.S. Specifications	4L	**6NMN8**
Ammonium Acetate, Crystal, Reagent, ACS	2.5kg	**6PKX3**
Ammonium Hydroxide	20L	**39D967**
Ammonium Peroxydisulfate, Crystal, Reagent, ACS	500g	**6WZF9**
Barium Chloride, Dihydrate, Crystal, Reagent, ACS	12kg	**6WZH8**
Calcium Carbonate, Light Powder, USP, Bulk	45kg	**6TYR3**
Calcium Stearate, NF	2.5kg	**39G325**
Chloroform, Stabilized	4L	**6MMC2**
Ethyl Alcohol, Absolute, Reagent	4L	**6RFK7**
Ethylene Glycol	55 gal.	**6NMH7**
Ferric Subsulfate Solution, USP	500mL	**6PHW3**
Heptane	4L	**6NMR7**
Hydrofluoric Acid	500mL	**39D865**
Hydrogen Peroxide, Solution, Reagent, ACS	4L	**6PMW8**
Isopropyl Alcohol	4L	**6NMX1**
Isopropyl Alcohol, EP, BP, JP	20L	**6RFR1**
Potassium Hydroxide, Pellets, Reagent, ACS	2.5kg	**6MNA5**
Potassium Iodide, Crystal, Reagent, ACS	500g	**6MND2**
Methanol, Absolute	200L	**6NMZ0**
Naphtha, VM and P	4L	**39G662**
Nitric Acid, Technical	2.5L	**6PJE3**
Phosphoric Acid, FCC	4L	**6PJG5**
Polyethylene Glycol 400, NF	2.5L	**6PNL9**
Propylene Glycol, USP	4L	**6WYF2**
Reagent Alcohol, Denatured, Exceeds A.C.S. Specifications	4L	**6NMR4**
Silver Nitrate, Crystal, Reagent, ACS	100g	**39G853**
Sodium Carbonate, Monohydrate, Granular, Reagent, ACS	2.5kg	**39G887**
Sodium Hydroxide	20L	**39E316**
Sodium Hypochlorite, Solution, Available Chlorine, Reagent	500mL	**6NNV1**
Sodium Metabisulfite, Granular, FCC	2.5kg	**39H031**
Sodium Selenite, Powder	5kg	**6NPF1**
Strontium Chloride, Hexahydrate, Crystal, Reagent, ACS	12kg	**39G984**
Talc, Powder, USP	12kg	**6WYW3**
Tetrahydrofuran, Stabilized	20L	**39H490**
White Petrolatum, White, USP	15.9kg	**6PNL0**
Zinc Chloride, Granular, USP, JP	12kg	**6TZG2**

Chemicals

RICCA CHEMICAL COMPANY

Description	Container Size	Item No.
Ag Nitrate Precision Solution	1L	**45F513**
Ammonium Bifluoride, (Certified 10% w/v) Aqueous Solution	4L	**45E349**
Bromine Number Titration Solvent	4L	**45E969**
Reference Buffer	4L	**45D009**
Reference Buffer	4L	**45D043**
Reference Buffer, pH 4.00 ±0.01 at 25°C	4L	**45D094**
Distilled Water Reagent	4L	**49WC28**
EDTA Titrant Precision Solution	20L	**45F075**
Ethanol, Reagent Alcohol	4L	**45E944**
Hydrochloric Acid, (Certified 2.00 Normal)	20L	**45E542**
Hydrogen Peroxide, (Certified 35% v/v) Aqueous Solution	20L	**45E549**
Iodine Precision Solution	4L	**45F183**
Isopropanol, (Certified 70% v/v) Aqueous Solution	4L	**45E573**
Kerosene	4L	**45E959**
Mercuric Acetate, (Cert 25 g/L) in Glacial Acetic Acid	4L	**45E593**
Methanol	4L	**45E938**
Nital Etchant, (Certified 10%)	250mL	**45E673**
Nitric Acid Precision Solution	1L	**45F233**
Potassium Fluoride, (Cert 50% w/v) Aqueous Solution, Neutralized	4L	**45E751**
Potassium Hydroxide, (Certified 20% w/v) Aqueous Solution	4L	**45E767**
Potassium Iodide, (Certified 10% w/v) Aqueous Solution, Stabilized	1L	**45D652**
Potassium Permanganate Precision Solution	10L	**45F398**
Povidone-Iodine Solution USP, (Certified 10% w/v), 1% (w/v) Available Iodine, for Laboratory Use	500mL	**45D478**
Purified Water Reagent	20L	**49WC30**
Reagent Alcohol (Denatured Alcohol), (Certified 70% v/v) Aqueous Solution	4L	**45E450**
Silver Nitrate Precision Solution	20L	**45F481**
Sodium Hydroxide Precision Solution	4L	**45F577**
Sulfuric Acid, (Certified 10% v/v) Aqueous Solution (1 + 9)	4L	**45E867**
Synthetic Sea Water,ASTM D1141 Substitute Ocean Water (Certified), without Heavy Metals	20L	**45D892**
TCLP Extraction Fluid 2 (Certified pH 2.88 ±0.05 at 25 Degrees C), for use in EPA 1311 Toxicity Characteristic Leaching Procedure	20L	**45D906**
Titration Solvent	4L	**45E973**
Toluene	4L	**45E961**
Water Reagent	20L	**49WC18**
Xylenes	4L	**45E963**

Water Purification Systems

Produce purified water for laboratory, industrial, and commercial applications. All Type I water systems, start-up cartridges, and final filters are sold separately.

WATER PURIFICATION SYSTEMS

- Produce Type 1 laboratory grade water on demand

Aries Type I—Quiet recirculation pump assures constant water purity. Large capacity cartridges are spring loaded. VP Series filter cartridges sold separately.

- Bacteria removal: < 10 CFU/mL



Aries Type I
No. 44C701

Gemini Type I—Ultrahigh-purity systems are PLC controlled with a touch panel to easily program automatic dispensing of user-defined batches. The ultrapure water quality is maintained with 3-pass UV in the recirculation loop and a UV-sterilized dispense port.

- Bacteria removal: < 10 CFU/1000mL

Phoenix Type I—Ultrahigh-purity water systems deliver lab quality water on demand. The water goes through a staged purification process which includes high-purity ion exchange resins to remove dissolved minerals and internal recirculation to maintain purity. Intuitive touch screen and easy maintenance. Filter cartridges sold separately.

- Bacteria removal: < 1 CFU/mL



Phoenix Type I
No. 48GE17

DEIONIZERS

- Produce Type II purified water

Hydra DI—Preassembled high-purity systems provide deionized water from city and tap water supplies using a 3-stage process. Include cartridges and water quality light.



Hydra DI
No. 44C703

VP SERIES SINGLE CARTRIDGE HOLDER

Unix modular, wall-mounted system employs quick-connect VP Series cartridges (sold separately) to treat water and process fluids. Holders can be easily linked together for staged filtration in downflow and upflow applications.

Purified Water Resistivity (megohms)	Max. Output Flow	Total Organic Carbons	Endotoxins, RNase/ DNase Removal	Particulate Removal (micron)	Mfr. Model	Item No.
Water Purification Systems						
Aries Type I - Countertop						
18.2	2Lpm	5-10 ppb	No	0.2	ARS-102	**44C701**
		Less Than 5 ppb	Yes w/PF-00-6505		ARS-102-UV	**44C702**
Gemini Type I - Countertop						
18.2	3.7Lpm	5-10 ppb	No	0.2	GMS-102	**44C708**
	3.0Lpm		Yes	0.05	GMS-105	**44C709**
Gemini Type I - Wall Mount						
18.2	3.7Lpm	5-10 ppb	No	0.2	GMB-102	**44C710**
	3Lpm		Yes	0.05	GMB-105	**44C711**
Phoenix Type I - Countertop						
18.2	2.5Lpm	Less Than 15 ppb	Removed When Fitted w/PF-00-7101 Filter	0.2	PHX-AD-S-1	**48GE17**
		Less Than 5 ppb			PHX-CT-S-1	**48GE18**
					PHX-CT-S-1-DF	**48GE19**
		Less Than 10 ppb			PHX-BC-S-1	**48GE21**
					PHX-BC-S-1-DF	**48GE22**
		Less Than 5 ppb			PHX-GN-S-1	**48GE24**
					PHX-GN-S-1-DF	**48GE25**
Phoenix Type I - Remote Configuration						
18.2	2.5Lpm	Less Than 5 ppb	Removed When Fitted w/PF-00-7101 Filter	0.2	PHX-CT-R-1	**48GE20**
		Less Than 10 ppb			PHX-BC-R-1	**48GE23**
		Less Than 5 ppb			PHX-GN-R-1	**48GE26**
Deionizers						
Hydra DI						
1 to 10	1.9Lpm	—	—	5	HY-122-DI	**44C703**
	4.7Lpm			25	HY-122B-DI	**44C705**
50 to 100	1.9Lpm			5	HY-122-DI-HC	**44C704**
	4.7Lpm			25	HY-122B-DI-HC	**44C706**
Cartridge Replacement Kits For Hydra DI						
For Use with No. 44C703					HYK-001	**46Z224**
For Use with No. 44C704					HYK-009	**46Z226**
For Use with No. 44C705					HYK-002	**46Z225**
For Use with No. 44C706					HYK-010	**46Z227**

Inlet Pipe Size	Max. Inlet Pressure Range	Max. Output Flow	Outlet Pipe Size	Mfr. Model	Item No.
VP Series Single Cartridge Holder					
¼" OD Tube	30 psi	4Lpm	¼" OD Tube	UNIX-00	**44C707**
Cartridges for Use With No. 44C707					
DI Cartridge, Color-Changing High Purity Mixed Bed				VP-17-4030	**44C567**
DI Cartridge, High Purity Mixed Bed				VP-17-4010	**44C568**
DI Cartridge, High Capacity				VP-17-4203	**44C577**
Cartridge, Activated Carbon				VP-17-1050	**44C571**

heidolph North America
research made easy

Rotary Evaporators



No. 56DK96

- 1300W heating capacity

Offer a digital display for set and actual heating bath temperature.

HEI-VAP EXPERT

Large dial controls to adjust rotation speed and bath temperature. Adjust the required angle of the evaporating flask individually according to your needs. Patented flask clamp Easy-Clip cannot get lost due to a connection to the vapor tube coupling ring.

HEI-VAP CORE

3.5" LCD indicates rotation speed, heating bath, and vapor temperature. Preprogrammed timer turns off evaporator and removes evaporating flasks from bath on motor lift models. Motorized models feature lift that adjusts height with the press of a button.

Glassware Set Type	Height Adjustment Method	Item No.
Hei-VAP Expert Rotary Evaporators		
G1, Diagonal Condenser	Manual	**56DK91**
G1B, Coated Diagonal Condenser	Manual	**56DK95**
G3, Standard Distillation Vertical Condenser	Manual	**56DK92**
G3B, Coated Standard Distillation Vertical Condenser	Manual	**56DK96**
G3BXL, Coated Standard Distillation Vertical Condenser	Manual	**56DK97**
G3XL, Standard Distillation Vertical Condenser	Manual	**56DK93**
G5, Dry Ice Condenser	Manual	**56DK94**
G5B, Coated Dry Ice Condenser	Manual	**56DK98**
G1, Diagonal Condenser	Motorized	**56DK99**
G1B, Coated Diagonal Condenser	Motorized	**56DL04**
G3, Standard Distillation Vertical Condenser	Motorized	**56DL01**
G3B, Coated Standard Distillation Vertical Condenser	Motorized	**56DL05**
G3BXL, Coated Standard Distillation Vertical Condenser	Motorized	**56DL06**
G3XL, Standard Distillation Vertical Condenser	Motorized	**56DL02**
G5, Dry Ice Condenser	Motorized	**56DL03**
G5B, Coated Dry Ice Condenser	Motorized	**56DL07**
Hei-VAP Core Rotary Evaporators		
G1, Diagonal Condenser	Manual	**56DK74**
G1B, Coated Diagonal Condenser	Manual	**56DK78**
G3, Standard Distillation Vertical Condenser	Manual	**56DK75**
G3B, Coated Standard Distillation Vertical Condenser	Manual	**56DK79**
G3BXL, Coated Standard Distillation Vertical Condenser	Manual	**56DK80**
G3XL, Standard Distillation Vertical Condenser	Manual	**56DK76**
G5, Dry Ice Condenser	Manual	**56DK77**
G5B, Coated Dry Ice Condenser	Manual	**56DK81**
G1, Diagonal Condenser	Motorized	**56DK82**
G1B, Coated Diagonal Condenser	Motorized	**56DK86**
G3, Standard Distillation Vertical Condenser	Motorized	**56DK83**
G3B, Coated Standard Distillation Vertical Condenser	Motorized	**56DK87**
G3BXL, Coated Standard Distillation Vertical Condenser	Motorized	**56DK88**
G3XL, Standard Distillation Vertical Condenser	Motorized	**56DK84**
G5, Dry Ice Condenser	Motorized	**56DK85**
G5B, Coated Dry Ice Condenser	Motorized	**56DK89**

Description	Item No.
Accessories	
Guard Hood, 6" x 8" x 8"	**36RM99**
Guard Shield, 6" x 8" x 8"	**36RN01**
Spare Vapor Tube, 3" x 3" x 8"	**36RN06**
Tube Set, Includes 6.25m Water and Vacuum Tubing	**36RN08**
Rotary Evaporator Enclosure, 38" x 24" x 48"	**36RN12**
Rotary Evaporator Enclosure, 38" x 24" x 50"	**36RN13**
Filter for Rotary Evaporator Enclosure	**36RN14**



Disposable Glove Chambers

Spilfyter® by NPS Corp.

Hands-in-Bag® atmospheric chambers are constructed of sturdy 0.003" gauge polyethylene and are polished for clarity. Seams are heat sealed for strength and inflation-tested to be leak-free. Ideal for laboratory, field sampling, and emergency isolation applications. Include sealing tape.

No. of Ports	Chamber Volume	Opening Size	W	L	Mfr. Model	Item No.
1	17,085 cu. in.	24"	39"	48"	690323	**3NPA1**
	31,730 cu. in.	36"	51"	58"	690321	**3NPA2**
	30,510 cu. in.	30"	45"	58"	690341	**3NPA3**



No. 9TA97



No. 45H845



Laboratory Hood (Work Surface and Cabinet sold separately)
No. 8PCX7

Air Science LABCONCO HEMCO ICI scientific

Ductless and Ducted Fume Hoods

PURAIR® DUCTLESS FUME HOODS

- User-friendly operation
- Filter required, order separately
- For mobile carts and spill trays, see Grainger.com®

Utilize Multiplex™ filtration technology with an electrostatic prefilter and main carbon filter, selected for specific applications. Provide an additional 5" or 6" of height for applications that require more headroom.

Overall Width	Overall Length	Overall Height	Filter Type	No. of Filters Req.	Brand	Mfr. Model	Item No.
Purair® Ductless Fume Hoods							
Purair Basic™ XT							
24"	27"	35"	Carbon, HEPA, Solvents, Acids, Formaldehyde	1	Air Science	P5-24XT	**9TA97**
36"	27"	35"		1	Air Science	P5-36XT	**8NK58**
48"	27"	35"		2	Air Science	P5-48XT	**8XDK9**
XPert Filter Protector Ductless Fume Hoods							
29"	24"	37 3/32"	HEPA	1	Labconco	3950201	**26KJ31**
24"	36"	36 3/32"		1	Labconco	3950301	**26KJ34**
29"	48"	37 3/32"		1	Labconco	3950401	**26KJ37**
29"	60"	46 19/64"		2	Labconco	3950501	**26KJ40**
29"	72"	46 19/64"		2	Labconco	3950601	**26KJ46**

Description	Brand	Mfr. Model	Item No.
Filters for Purair Basic and Purair Basic XT			
Prefilter, Pk. of 6	Air Science	ASTS-PRF	**4UDJ2**
Carbon Filter for Acids	Air Science	ASTS-015	**4UDJ1**
Carbon Filter for Organics, Solvents, and Hydrocarbons	Air Science	ASTS-001	**4UDH8**
Carbon Filter for Formaldehyde	Air Science	ASTS-013	**8WAL1**
HEPA Filter for Powders	Air Science	ASTS-030	**4UDH9**

XPERT FILTERED BALANCE SYSTEM WITH GUARDIAN AIRFLOW MONITOR DUCTLESS FUME HOODS

Provide user protection by containing airborne powders and particulates. Help keep particles contained during weighing and power transfer. Include a built-in blower and exhaust HEPA filter. This system returns filtered air to the laboratory and requires no outside ducting.

CE (COMPACT) DUCTED FUME HOODS

Reduced hood size with vented enclosure duct, pulls contaminants out of the building for occupant safety. 1-pc., seamless liner ensures efficient airflow and has excellent chemical resistance and flame retardation.

BASIC™ DUCTED FUME HOODS

Designed for mobile labs, classrooms, or areas with low ceilings or narrow aisles. 16-ga., powder-coated steel liner and counterbalanced clear tempered safety glass sash. Built-in blowers are sized for up to 100-ft. duct run. Hoods include air foil, 2-pc. adjustable baffle, 100W incandescent light fixture, and 10.3" O.D. duct collar for connection to exhaust.

ISOLATOR³ HIGH-PERFORMANCE DUCTED LABORATORY FUME HOODS

Have precise baffle pressurization to help achieve superior capture and containment at standard or low volume applications. Hoods have 43½"H "full view" sash with tempered glass and a full-length handle. Slotted rear baffle helps provide even plenum balance with a 24"D interior. Hoods come prewired and include a white poly glass liner. Accessories sold separately on Grainger.com®.

TELESCOPING BASE STANDS

Provide sturdy support of up to 1000 lb.

Description	Includes	W	D	H	Brand	Mfr. Model	Item No.
CE (Compact) Ducted Fume Hoods							
Ducted Fume Hood	Vapor Proof Light, Internal Blower	30"	24"	45"	Hemco	13042	**45H845**
		36"	24"	45"	Hemco	13642	**45H846**
		48"	24"	45"	Hemco	14842	**45H847**
	Hazardous-Location Light, Internal Blower	30"	24"	45"	Hemco	13044	**45H851**
		36"	24"	45"	Hemco	13644	**45H852**
		48"	24"	45"	Hemco	14844	**45H853**
Basic™ Ducted Laboratory Fume Hoods							
⅓ hp Blower	Built-In ⅓ hp Blower, Prewired 100 Watt Vapor-Proof LED Light, Light and Blower Switches	47"	25"	53"	Labconco	2247300	**8PCX7**
	Built-In ⅓ hp Hazardous-Location Blower and Hazardous-Location LED Light Fixture	47"	25"	53"	Labconco	2247500	**9JWL6** *
¾ hp Blower	Built-In ¾ hp Blower, Prewired 100 Watt Vapor-Proof Incandescent Light, Light and Blower Switches	70"	25"	53"	Labconco	2246300	**8GDN7**
	Built-In ¾ hp Hazardous-Location Blower and Hazardous-Location Light Fixture	70"	25"	53"	Labconco	2246500	**8UU09** *
Isolator³ High Performance Ducted Laboratory Fume Hoods							
Vertical Sash	—	48"	33"	58"	ICI	H-50-48G5	**45MK56**
		60"	33"	58"	ICI	H-50-60G5	**45MK57**
		72"	33"	58"	ICI	H-50-72G5	**45MK58**
Telescoping Base Stands							
Adjustable Height 4'	1.75" Tubular Powder-Coated Steel Frame, (4) Fixed Leveling Feet	48"	29"	27½" to 34½"	Labconco	3746702	**8YEA7**
Adjustable Height 6'		72"	29"	27½" to 34½"	Labconco	3746704	**8WFK1**

**** Hazardous-location models do not include switches and wiring, which must be individually installed in conformance with local codes.***



No. 45H165



No. 53CP74

Biosafety Cabinets

LABCONCO INSTOCK

Help provide personnel, product, and environmental protection from biological particulates. For use with agents that require Biosafety Level 1, 2, or 3 containment.

Purifier Logic+—Feature ADA-complaint touchpad control on right-hand side post for manual activation of blower, lights, timer, and electrical receptacles, audible arm mute, and menu selection. Built-in interval or elapsed timer for experiment monitoring, fluorescent light, or UV light control.

Labculture® RELIANT—Designed with shorter height and smaller footprint for optimal utilization of lab space. Allow preparation of low to moderate risk agents. Has energy-efficient DC ECM motor technology. Feature simple switches, pressure gauge, and manual UV timer. Esco Isocide™ antimicrobial coating on all painted surfaces minimizes contamination.

W	H	Brand	Mfr. Model	Item No.
Purifier Logic+ Biosafety Cabinets				
42.3"	61.8"	Labconco	302380001	**45H165**
42.3"	61.8"	Labconco	302480001	**45H173**
54.3"	61.8"	Labconco	302580001	**45H181**
54.3"	61.8"	Labconco	302680001	**45H189**
Labculture® RELIANT Biological Safety Cabinets				
36"	61"	Instock	BSC-A2-36	**53CP74**
48"	61"	Instock	BSC-A2-48	**53CP75**
60"	61"	Instock	BSC-A2-60	**53CP76**
72"	61"	Instock	BSC-A2-72	**53CP77**


No. 6RHD3


No. 6RGP6


No. 6RHD4


No. 49YN89


No. 6RGV2

NORLAKE SCIENTIFIC ABS American BioTech Supply

Scientific Refrigerators and Freezers

- 60 Hz

Provide energy-efficient, convenient, safe, and reliable performance for demanding life science, pharmacy, biological, clinical, and industrial applications. ABS units feature microprocessor temperature controller with audible and visual alarms, digital temperature display, remote alarm contacts, keyed door locks, and leveling legs.

Color	Voltage	Refrigerator Cap.	Freezer Cap.	H	W	D	Door Type	Refrigerator Temp. Range	Freezer Temp. Range	Defrost	Brand	Item No.
Refrigerators												
General Purpose												
White	120	17 cu. ft.	—	5 ft. 7½"	34"	31"	Solid	36° to 50°F	—	Automatic	Nor-Lake Scientific	**6RHD3**
Premier Reach In												
White	120	49 cu. ft.	—	6 ft. 7⅝"	4 ft. 7"	33"	Sliding Glass	36° to 50°F	—	Automatic	Nor-Lake Scientific	**6RGP6**
Undercounter												
White	115	1 cu. ft.	—	21¼"	17¼"	19¼"	Swing Solid	34° to 50°F	—	Cycle	ABS	**49YN89**
White	115	1 cu. ft.	—	21¼"	17¼"	19¼"	Swing Glass	34° to 50°F	—	Cycle	ABS	**49YN91**
White	115	2.5 cu. ft.	—	28⅞"	17¾"	19½"	Swing Solid	34° to 50°F	—	Cycle	ABS	**49YN93**
White	115	2.5 cu. ft.	—	28⅞"	17¾"	19½"	Swing Glass	34° to 50°F	—	Cycle	ABS	**49YN94**
Silver	115	4.5 cu. ft.	—	33⅜"	23¾"	24½"	Swing	34° to 50°F	—	Cycle	ABS	**49YP03**
White	115	4.6 cu. ft.	—	31⅞"	23¾"	25½"	Swing Glass	34° to 50°F	—	Cycle	ABS	**49YP01**
White	115	5.2 cu. ft.	—	32⅛"	23¾"	24"	Swing Glass	34° to 50°F	—	Cycle	ABS	**49YN95**
Refrigerator/Freezer												
General Purpose												
White	120	23 cu. ft.	15.0 cu. ft.	5 ft. 8"	30"	34"	Solid	36° to 50°F	5° to 14°F	Automatic	Nor-Lake Scientific	**6RHD4**
Freezers												
Flammable Storage												
White	120	—	24.0 cu. ft.	6 ft. 7⅝"	27½"	3 ft. 2"	Solid	—	-4° to 14°F	Manual	Nor-Lake Scientific	**6RGT9**
General Purpose												
White	120	—	21.0 cu. ft.	6 ft. 4"	34"	32"	Solid	—	-4° to 14°F	Automatic	Nor-Lake Scientific	**6RHD1**
Premier Reach In												
White	120	—	33.0 cu. ft.	7 ft. 3⅝"	31¾"	36½"	Solid	—	-13° to 14°F	Automatic	Nor-Lake Scientific	**6RGV0**
White	120	—	52.0 cu. ft.	6 ft. 7⅝"	4 ft. 7"	35½"	Solid	—	-13° to 14°F	Automatic	Nor-Lake Scientific	**6RGV2**
Select Reach In												
White	120	—	33.0 cu. ft.	7 ft. 3⅝"	31¾"	36½"	Solid	—	-13° to 14°F	Automatic	Nor-Lake Scientific	**6RHD8**

THERMCO PRODUCTS, INC

Liquid In Glass Thermometers

Use to measure critical temperatures in blood bank refrigerators, ultralow freezers, freezers, refrigerators, incubators, ambient/room, block heaters, and ovens. Thermometers are unbreakable bottles filled with a biosafe, glycol/water solution. Include space-saving magnets to adhere the thermometer to a steel wall or door. Nonmercury models are fluoropolymer-coated for protection.

Temp. Range	Scale Divisions	Fill	L	Item No.
Liquid In Glass Thermometers				
For Incubators				
18° to 50°C	0.5°C	Spirit	135mm	**8RLT5**
18° to 50°C	0.5°C	Spirit	135mm	**9FAN0**
For Incubators and Water Baths				
0° to 80°C	0.5°C	Spirit	250mm	**5ZPG1**
For Ovens				
20° to 130°C	1°C	Spirit	135mm	**8WYC1**
0° to 200°C	1°C	Spirit	405mm	**5ZPG9**
For Ovens and Oil Baths				
0° to 200°C	1°C	Spirit	280mm	**5ZPG7**

Temp. Range	Scale Divisions	Fill	L	Item No.
For Refrigerators				
-5° to 15°C	0.5°C	Spirit	125mm	**8RLT4**
-5° to 15°C	0.5°C	Spirit	125mm	**8AU73**
Liquid In Glass Thermometers, Safety Coated				
For Incubators and Water Baths				
0° to 80°C	0.5°C	Spirit	250mm	**5ZPG2**
20° to 100°C	0.5°C	Spirit	305mm	**5ZPG0**
For Ovens				
0° to 200°C	1°C	Red Spirit	405mm	**5ZPH0**
For Ovens and Oil Baths				
0° to 200°C	1°C	Spirit	280mm	**5ZPG8**


No. 9FAN0


No. 8WYC1


No. 8AU73

Digital Refrigerated Laboratory Incubators

Revolutionary Science—Refrigerated incubators keep low temperatures for applications such as fermentation studies, or plant and insect studies. Include color touch screens, except No. 48VG33 has a digital display.

Lab Companion—Maintain desired temperature, humidity, etc., to grow and maintain cell cultures. Microprocessor PID control with 3-point temperature calibration and automatic tuning. Bright VFD display.

Shel Lab®—Ideal for testing sewage, wastewater, and other low and room temperature applications. Mechanical convection system for even air distribution. Microprocessor control system, PID temperature control, and LED display.



No. 48VG33



No. 404W89

Cap.	Voltage	Temp. Range	Temp. Accuracy	Chamber H	Chamber W	Chamber D	Brand	Mfr. Model	Item No.
BOD Bottle Incubators									
1.2 cu. ft.	120 to 240VAC	7° to 60°C	±0.7°C	10.25"	12"	16.5"	Revolutionary Science	RS-IF-233	**48VG33**
1.2 cu. ft.	120 to 240VAC	1° to 75°C	±0.7°C	10.25"	12"	16.5"		RS-IF-233pro	**48VG34**
1.9 cu. ft.	120 to 240VAC	1° to 75°C	±0.7°C	16.5"	12"	16.5"		RS-IF-253pro	**48VG35**
2.6 cu. ft.	120 to 240VAC	1° to 75°C	±0.7°C	22.5"	12"	16.5"		RS-IF-273pro	**48VG36**
Cell Culture Incubators									
5.5 cu. ft.	120	4° to 70°C	±0.2°C @ 37°C	20"	24"	20.5"	Lab Companion	IL3-15A	**404W90**
8.5 cu. ft.	120	0° to 80°C	±0.1°C @ 37°C	36.6"	20"	20.5"		IL3-25	**404W89**
8.9 cu. ft.	120	4° to 70°C	±0.2°C @ 37°C	37"	20"	21.3"		IL3-25A	**404W91**
Incubators									
6.5 cu. ft.	120	15° to 40°C	±0.5°C @ 20°C	18.5"	25.5"	24"	Shel Lab	SRI6P	**39J322**
6.5 cu. ft.	240	15° to 40°C	±0.5°C @ 20°C	18.5"	25.5"	24"		SRI6P-2	**39J323**
19.3 cu. ft.	120	15° to 40°C	±0.5°C @ 20°C	54.5"	25.5"	24"		SRI20P	**39J324**
19.3 cu. ft.	240	15° to 40°C	±0.5°C @ 20°C	54.5"	25.5"	24"		SRI20P-2	**39J325**

Stainless Steel Warming Cabinets

- 120VAC

Help maintain ideal clinical temperatures for solution bottles and bags, plus blankets for patient care. Feature a heating compartment fully insulated for efficient operation, illuminated digital power and temperature controls, double wall stainless steel construction with a #4 finish, adjustable perforated stainless shelves (except Nos. 52KC47 and 52KC46), and leveling feet.

Models have an adjustable setpoint temperature range with setpoints ± 5°F and an auto shut off for temperatures exceeding 180°F. Temperature lock-in capable and an audible and visual over-temperature indicator. Self-closing door is field reversible and has spring-loaded hinges. Front access eases servicing. The built-in temperature recording function can transmit to Building Management Systems (BMS).



Benchtop
No. 52KC47



No. 52KC43

Cap.	No. of Doors	No. of Compart.	No. of Shelves	H	W	D	Door Type	Mfr. Model	Item No.
Benchtop Warming Cabinets									
5.1 cu. ft.	1	1	1	26"	30"	24"	Glass	WC1CGD-3026	**52KC47**
	1	1	1	26"	30"	24"	Solid	WC1CSD-3026	**52KC46**
Warming Cabinets									
17.3 cu. ft.	2	2	2	74"	30"	24"	Glass	WC2GD-3074	**52KC43**
	2	2	2	74"	30"	24"	Solid	WC2SD-3074	**52KC42**
20.9 cu. ft.	1	1	3	74"	30"	24"	Glass	WC1GD-3074	**52KC45**
	1	1	3	74"	30"	24"	Solid	WC1SD-3074	**52KC44**

Convection Ovens and Furnaces

Provide controlled heat for drying, baking, sterilizing, heat treating, evaporating, annealing, and testing.

Forced-Air Convection Ovens use blowers to circulate interior air for uniform temperature.

BASIC DIGITAL OVENS

Shel Lab ovens feature microprocessor temperature control and digital electronic timer. LSS ovens include PID controller and PT 100 sensor.



No. 13R399



No. 20H915

PROGRAMMABLE OVENS

Adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-color display. Include adjustable overtemperature protection and 7-day programmable timer.

BOX FURNACES

Yield consistent temperatures throughout the working chamber zone.

VACUUM OVENS

Feature cross-flow ventilation, overtemperature protection, stainless steel chamber, and vacuum gauge.

Volume	Voltage	Temp. Range	Temp. Accuracy	Chamber H	Chamber W	Chamber D	No. of Shelves	Brand	Mfr. Model	Item No.
Forced Air Convection										
Basic Digital Ovens										
13.7 cu. ft.	220	15° to 260°C	±3.0°C @ 150°C	31"	30.7"	24.7"	3	Shel Lab	SMO14-2	**13R399**
16L	110	Ambient +10 Degrees to 250 Degrees	±1°C @ 100°C	9.84"	9.84"	10.23"	2	LSS	—	**32EZ27**
27.5 cu. ft.	220	15° to 260°C	±3.5°C @ 150°C	61"	30.8"	25"	6	Shel Lab	SMO28-2	**13R401**
30L	110	Ambient +10 Degrees to 250 Degrees	±1°C @ 100°C	12.59"	12.59"	11.81"	2	LSS	—	**32EZ24**
50L	110			14.96"	15.74"	12.99"	2	LSS	—	**32EZ25**
80L	110			17.71"	17.71"	15.74"	2	LSS	—	**32EZ26**
Programmable Ovens										
5.7 cu. ft.	115	At least 10°C above ambient up to +300°C	up to 99.9° ±0.1°C / from 100° ±0.5°C	28.4"	22"	15.8"	2	Memmert	UF 160 Plus	**42W036**
9 cu. ft.	115			31.5"	25.2"	19.7"	2	Memmert	UF 260 PLUS	**20H911**
Gravity Convection										
Basic Digital Ovens										
1.9 cu. ft.	115	At least 5°C above ambient up to +300°C	up to 99.9° ±0.1°C / from 100° ±0.5°C	15.8"	15.8"	13"	1	Memmert	UN 55	**20H894**
3.8 cu. ft.	115			18.9"	22"	15.8"	2	Memmert	UN 110	**20H897**
30L	110	Ambient +10 Degrees to 200 Degrees	±1°C @ 100°C	12.6"	12.6"	11.8"	2	LSS	—	**32EZ28**
50L	110			14.96"	15.74"	12.99"	2	LSS	—	**32EZ29**
90L	110			18.5"	17.71"	16.92"	2	LSS	—	**32EZ30**
Programmable Ovens										
1.1 cu. ft.	115	At least 5°C above ambient up to +300°C	up to 99.9° ±0.1°C / from 100° ±0.5°C	12.6"	15.8"	9.8"	1	Memmert	UN 30 PLUS	**20H915**
1.9 cu. ft.	115			15.8"	15.8"	13"	1	Memmert	UN 55 PLUS	**20H916**
3.8 cu. ft.	115			18.9"	22"	15.8"	2	Memmert	UN 110 PLUS	**20H917**
9.0 cu. ft.	115			31.5"	25.2"	19.7"	2	Memmert	UN 260 PLUS	**20H918**
Box Furnaces										
Benchtop										
6L	220-240	1000°C	—	6.49"	7.08"	8.26"	1	Carbolite	ELF11006-230SN	**38L773**
Lab										
13L	220-240	1200°C	—	25.78"	17.12"	24.01"	—	Carbolite	CWF1213-230SN	**38L779**
23L	220-240			705"	19.88"	26.57"	—	Carbolite	CWF1223-230SN	**38L780**
Vacuum Ovens										
Analog										
0.6 cu. ft.	120	15° to 210°C	±9°C @ 120°C	9"	9"	12"	2	Shel Lab	SVAC1E	**39J318**
1.7 cu. ft.	120			12"	12"	20"	2	Shel Lab	SVAC2E	**39J320**
Microprocessor Control										
1.7 cu. ft.	120	10° to 220°C	±3.5% of set point	12"	12"	20"	3	Shel Lab	SVAC2	**13R403**
4.5 cu. ft.	120			18"	18"	24"	3	Shel Lab	SVAC4	**13R404**

BriskHeat® Chemglass Life Sciences

Heating Mantles and Beaker Heaters

- 120V, except No. 21TW61 is 240V
- Required Benchtop Temperature Controllers sold separately

Provide uniform heat across the surface of a flask or beaker.



Heating Mantle
No. 13N549



Beaker Heater
No. 13P744

HEATING MANTLES

- Max. temp: 850°F

Fiberglass liner is molded to fit snugly on round-bottom flasks. The heating element is topped by ceramic and wool insulation layers and a fiberglass cloth cover.

Lower Hemisphere—For use with basket ring stands. 3" lead wire with NEMA L1-15R connector and 4-ft. power adapter cord with NEMA 1-15 plug.

Spherical—Opening adjusts for 1-, 2-, or 3-neck flasks on these full-coverage zippered mantles for basket ring stand. 6-ft. cord with NEMA 1-15 plug, except Nos. 13N559 and 13N560 have 4-ft. cord.

BEAKER HEATERS

- Max. temp: 450°F

Heaters wrap around Griffin and standard beakers and are snugged in place with a hook-and-loop closure. The heating element is laminated between two layers of fiberglass-reinforced silicone rubber that is moisture- and chemical-resistant. 2-ft. power leads with 2-prong NEMA 1-15 plug.

Wattage	For Use With Mfr. No.	Brand	Mfr. Model	Item No.
Lower Hemisphere Heating Mantles				
80	SDC120JF-A, SDC120JC-A,	Briskheat	HM0100-HS1	**13N549**
80	SDC120KC-A, SDC120KF-A	Briskheat	HM0125-HS1	**13N550**
80	Flasks	Chemglass	CG-10000-02	**21UG46**
270	SDC120JF-A, SDC120JC-A,	Briskheat	HM0500-HS1	**13N553**
380	SDC120KC-A, SDC120KF-A	Briskheat	HM1000-HS1	**13N554**
380	Flasks	Chemglass	CG-10000-08	**21UG57**
500	SDC120JF-A, SDC120JC-A,	Briskheat	HM2000-HS1	**13N555**
500	SDC120KC-A, SDC120KF-A	Briskheat	HM3000-HS1	**13N556**
600		Briskheat	HM5000-HS1	**13N557**
1300	TTD999-K120+TAKN10-DA	Briskheat	HM12000-HS1	**13N558**
Spherical Heating Mantles				
0/270	SDC120JF-A, SDC120JC-A,	Briskheat	HM0500-SS1	**13N559**
140/380	SDC120KC-A, SDC120KF-A	Briskheat	HM1000-SS1	**13N560**
Table Top Heating Mantle				
210		Briskheat	HM0500VF1	**13N565**
377	SDC120JF-A, SDC120JC-A,	Briskheat	HM1000VF1	**13N566**
550	SDC120KC-A, SDC120KF-A	Briskheat	HM3000VF1	**13P742**
620		Briskheat	HM5000VF1	**13P743**
Beaker Heaters				
150	—	Briskheat	GBH0250-2	**21TW61**
150		Briskheat	GBH0250-1	**13P744**
200	SDC120JF-A, SDC120JC-A,	Briskheat	GBH0400-1	**13P745**
250	SDC120KC-A, SDC120KF-A	Briskheat	GBH0600-1	**13P746**
350		Briskheat	GBH1000-1	**13P747**



Fiberglass
No. 13P748



Silicone Rubber
No. 13P849

BriskHeat®

Heat Tape

- Suitable for electrically conductive surfaces
- Optional Benchtop Temperature Controllers sold separately

Provide fast, efficient direct-contact heating on any surface or body. CE Certified and RoHS Compliant.

Fiberglass Heat Tape—Heavy insulated tape is exceptionally flexible and durable and provides rapid thermal response. Has power leads on same end. High-temperature tie-downs for easy installation.

HSTAT Silicone Rubber Heating Tape—Include adjustable thermostat control. Rapid heat-up and thermal response.

Max. Temp.	Voltage	Wattage	W	L	Item No.
Fiberglass Heat Tape					
	120	105	.5"	2 ft.	**13P748**
	120	209	1.75"	2 ft.	**13P760**
	120	210	.5"	4 ft.	**13P749**
	120	310	.5"	6 ft.	**13P750**
	120	313	2.5"	2 ft.	**13P765**
	120	418	1.75"	4 ft.	**13P761**
900°F	120	420	.5"	8 ft.	**13P751**
	120	620	1"	6 ft.	**13P756**
	120	627	1.75"	6 ft.	**13P762**
	120	830	1"	8 ft.	**13P757**
	120	836	1.75"	8 ft.	**13P763**
	120	940	2.5"	6 ft.	**13P767**
	120	1254	2.5"	8 ft.	**13P768**
	120	1672	3.25"	8 ft.	**13P773**
HSTAT Silicone Rubber Heating Tape					
	120	144	½"	4 ft.	**13P849**
	120	216	½"	6 ft.	**13P850**
	120	288	1"	4 ft.	**13P854**
	120	288	2"	2 ft.	**13P858**
	120	360	½"	10 ft.	**13P852**
	120	432	1"	6 ft.	**13P855**
425°F	120	720	1"	10 ft.	**13P857**
	120	1440	2"	10 ft.	**13P862**
	240	144	1"	2 ft.	**21TX41**
	240	720	1"	10 ft.	**21TX45**
	240	864	2"	6 ft.	**21TX48**
	240	1440	2"	10 ft.	**21TX50**
	240	1800	3"	10 ft.	**21TX55**

BriskHeat®

Temperature Controllers

- Accuracy: ±1% FS
- On/Off control
- 120VAC input



No. 13P844

Benchtop—Digital controllers offer adjustable upper and lower setpoint limits. Factory-installed Type J or K thermocouple sensors. 5-ft. input and output power cords have NEMA 5-15 plug and receptacle.

Outdoor—Mount vertically for outdoor use. Features audible alarm, Type K thermocouple, and 6-ft. input power cord.



No. 21TV79

Description	Temp. Range	Thermocouple Type	Mfr. Model	Item No.
Benchtop Temperature Controllers	32° to 999°F/0° to 600°C	J	SDC120JF-A	**13P844**
	32° to 999°F/0° to 600°C	K	SDC120KF-A	**13P846**
	32° to 999°F/0° to 600°C	J	SDC120JC-A	**13P845**
	0° to 600°C	K	SDC120KC-A	**13P847**
Outdoor Temperature Controller	32 to 999°F	—	TTD999-K120	**21TV79**
Thermocouple, 60"L	—	—	TAKN05-DA	**21TV80**

LabArmor® THERMCO® PRODUCTS, INC

DryTemp Bath

- Temp. range: ambient +5° to 150°C
- Thermal uniformity (with lid): ±1.0°C at 95°C



DryTemp Bath with Bead Block

Dry bath features digital temperature control. Combine with a bead block for optimal temperature uniformity and accuracy while incubating common lab vessels, including microfuge tubes, test tubes, microplates, and slides. Single bead block holds 0.25L of beads. 3¾"L x 3"W x 3"H. Double bead block holds 0.5L of beads. 3¾"L x 6"W x 3"H.

GLASS THERMOMETERS

Designed for use with block heaters and water baths.

Description	H	W	D	Brand	Item No.
DryTemp Bath, 120V	3.2"	8.7"	10.3"	Lab Armor	**12L054**

Description	▶CHOOSE: Color	Brand	Item No.
Bead Block - Single	Black, Blue, Gold, Red, Silver	Lab Armor	**H7280**
Bead Block - Double		Lab Armor	**H7281**
Beads, 2L		Lab Armor	**12L039**
Beads, 4L		Lab Armor	**12L040**

Description	Temp. Range	Scale Divisions	L	Brand	Item No.
Glass Thermometers for Block Heaters and Water Baths					
Liquid In Glass Thermometer	0° to 110°C	2°F	225mm	Thermco	**5ZPF7**
	25° to 57°C	2°F	175mm	Thermco	**5ZPF5**
Liquid In Glass Thermometer, Safety Coated	0° to 110°C	2°F	225mm	Thermco	**5ZPF8**

LabArmor®

Bead Baths

- Temp. range: ambient +5° to 80°C
- Thermal uniformity: ±1.0°C @ 37°C
- Digital display



Bath with Beads
No. 12L046

Bead baths are more energy efficient than water baths and provide precise, uniform temperature control. Protect samples from contamination and easily hold vessels upright in place. Safely incubate multiwell plates and petri dishes without water wicking under their lids.

Description	H	W	D	Item No.
120V				
Bead Bath, 6L	8.5"	15.9"	12.3"	**12L043**
Bead Bath, 14L	8.5"	15.9"	18.5"	**12L045**
Bead Bath, 20L	8.5"	15.9"	23.25"	**12L047**
Bead Bath, 6L, includes 5L of Beads	8.5"	15.9"	12.3"	**12L042**
Bead Bath, 14L, includes 12L of Beads	8.5"	15.9"	18.5"	**12L044**
Bead Bath, 20L, includes 15L of Beads	8.5"	15.9"	23.25"	**12L046**
230V				
Bead Bath, 6L	8.5"	15.9"	12.3"	**12L049**
Bead Bath, 14L	8.5"	15.9"	18.5"	**12L051**
Bead Bath, 20L	8.5"	15.9"	23.25"	**12L053**
Bead Bath, 6L, includes 5L of Beads	8.5"	15.9"	12.3"	**12L048**
Bead Bath, 14L, includes 12L of Beads	8.5"	15.9"	18.5"	**12L050**
Bead Bath, 20L, includes 15L of Beads	8.5"	15.9"	23.25"	**12L052**

Scan. Order. Done.
Details on page A1.



No. 12C358



No. 6VMV4

Chillers PolyScience®

- For additional chillers, see Grainger.com®

Benchtop Chillers—2.65L reservoir cools multiple benchtop rotary evaporators simultaneously.

Chillers—Microprocessor-controlled instruments with adjustable pressure and flow rates for common heat-removal applications.

Temp. Range	Cap.	Flow Rate	Pump Type	Mfr. Model	Item No.
Benchtop Chillers					
-20° to 40°C	0.7L	14.8Lpm	Centrifugal	LS51M11LB10C	**12C362**
	0.7L	9.8Lpm	Turbine	LS51TX1LB10C	**12C364**
-10° to 30°C	0.7L	13.2Lpm	Centrifugal	LM61MX1LB10C	**12C361**
	0.7L	7.9Lpm		LM61GX1LB10C	**12C360**
-5° to 50°C	0.7L	13.2Lpm		MM71MX1LB10C	**12C359**
	0.7L	7.9Lpm		MM71GX1LB10C	**12C358**
Chillers					
-10° to 40°C	4.2L	15.5Lpm	Magnetic Drive	6260M11LB10B	**12C365**
	4.2L	15.5Lpm		6560M11LB20C	**12C369**
	4.2L	15.5Lpm		6760M21LB30D	**12C371**
	4.2L	15.5Lpm		6160M21LB30D	**12C373**
	4.2L	9.8Lpm	Positive Displacement	6260P11LB10B	**12C366**
	4.2L	9.8Lpm		6560P11LB20C	**12C370**
	4.2L	13.2Lpm		6760P41LB30D	**12C372**
	4.2L	13.2Lpm		6160P41LB30D	**12C374**
	4.2L	13.2Lpm	Turbine	6260T11LB10B	**6VMV4**
	4.2L	13.2Lpm		6560T11LB20C	**6VMV6**
	4.2L	13.2Lpm		6760T21LB30D	**6VMV7**
	4.2L	13.2Lpm		6160T21LB30D	**6VMV8**
5° to 35°C	13.25L	13.2Lpm	Positive Displacement	6860P46LB70D	**12C376**



No. 45LN92

Julabo Heating and Refrigerated Circulators

Open Heating Bath Circulators—Quiet running units are designed for internal applications in the circulator bath tank. Circulator can be removed for easy cleaning of the bath tanks. Include bright, white, and easy-to-read display.

Heating Circulators with Open Bath—For internal and external temperature applications with transparent or stainless steel bath tanks and pump connections.

Refrigerated and Heating Circulators—Designed for routine work and standard tasks in laboratories and industrial environments. Run quietly and feature a bright, easy-to-read display, external pump connections, and USB connection. Cooling coil utilizes a design that yields more usable space in the bath tank.

Temp. Range	Material	Chamber H	Chamber W	Chamber L	Mfr. Model	Item No.
Open Heating Bath Circulators						
20° to 100°C	Plastic, Stainless Steel	5.9"	5.9"	5.9"	9011305	**45LN92**
	Plastic	7.8"	11.8"	13.7"	9011327	**45LN95**
	Stainless Steel	5.9"	11.8"	13.7"	9011419	**45LN99**
	Stainless Steel	7.8"	11.8"	13.7"	9011427	**45LP01**
Heating Circulators with Open Bath						
20° to 100°C	Plastic, Stainless Steel	5.9"	5.9"	5.9"	9012305	**45LP03**
	Plastic, Stainless Steel	5.9"	5.9"	5.9"	9012405	**45LP06**
	Plastic, Stainless Steel	5.9"	11.8"	7"	9012413	**45LP07**
20° to 150°C	Plastic, Stainless Steel	7.8"	11.8"	7"	9012417	**45LP08**
	Stainless Steel	5.9"	11.8"	13.7"	9012419	**45LP09**
	Plastic, Stainless Steel	11.8"	12.9"	11.8"	9012439	**45LP12**
Refrigerated and Heating Circulators						
-25° to 150°C	Plastic, Stainless Steel	5.9"	5.1"	5.9"	9012703	**45LP19**
-30° to 150°C	Stainless Steel	5.9"	8.6"	5.9"	9012704	**45LP20**



No. 41V515

Julabo Chillers

Feature splashproof keypad and large, bright LED display. Easy to fill and drain.

F Series—Designed with filling level indicator. May be used with water, water/glycol, and Julabo Thermal EG bath fluid.

FC Series—Have adjustable ratio for feed/return temp., upper/lower temp. warning function with interval tone, and integrated protection from freezing and dry running. Designed with self-test, reciprocal sensor monitoring, and pump motor and compressor overload protection. RS232 interface for online communication (LIMS capability).

FL Series—Feature microprocessor PID temperature control, filling level indicator with alarm, and powerful immersion pumps for continuous operation. Include integrated stainless steel bath tanks and front drain. RS232 interface.

Temp. Range	Cap.	Flow Rate	Amps AC	Trade Name	Mfr. Model	Item No.
F Series						
-10° to 40°C	2.6L	15Lpm	5	F250	9620025	**41V429**
0° to 40°C	7.5L	24Lpm	—	F500	9620050	**41V430**
	9.5L	23Lpm	—	F1000	9620100	**41V431**
FC Series						
-20° to 80°C	8L	20Lpm	7	FC600	9600060	**41V499**
-10° to 80°C	8L	22Lpm	10	FC600S	9600063	**41V501**
-20° to 80°C	11L	20Lpm	10	FC1600	9600160	**41V502**
-15° to 80°C	11L	22Lpm	14	FC1600S	9600163	**41V503**
	11L	28Lpm	15	FC1600T	9600166	**41V504**
FL Series						
-20° to 40°C	4.5L	15Lpm	6	FL300	9660003	**41V515**
	8L	23Lpm	10	FL601	9661006	**41V516**
	17L	23Lpm	14	FL1201	9661012	**41V517**
	17L	23Lpm	15	FL1701	9661017	**41V519**
	17L	40Lpm	11	FL1203	9663012	**41V518**
	17L	40Lpm	10	FL1703	9663017	**41V520**
	30L	40Lpm	13	FL2503	9663025	**41V521**
	30L	40Lpm	11	FL4003	9663040	**41V523**
-15° to 40°C	30L	60Lpm	16	FL2506	9666025	**41V522**



No. 494F23



No. 12C221

LW Scientific PolyScience® Baths and Circulators

Provide exact, stable temperature control.

Water Baths—Ideal for heating and maintaining temperature-sensitive samples. LW Scientific models include touchpad digital controller and red LED display. Polyscience general purpose water baths feature digital display, timer modes, and memory function.

MX (Basic) Controllers—Have 3 control buttons, alarm, and fault indicators.
- Closed-loop external circulation
- Single pump speed

Standard Digital Controllers—LCD touchpad, alarm, and fault indicators. RS-232 connectivity.
- Closed-loop external circulation
- 2 pump speeds

Capacity	Temp. Accuracy	Temp. Range	Flow Rate	Material	Volume	Chamber H	Chamber W	Chamber D	Brand	Item No.
Water Baths										
10L	±0.2°C	Ambient 5° to 100°C	10Lpm	Aluminum, Stainless Steel	10L	6"	12"	10"	LW Scientific	**45UA82**
20L	±0.2°C		20Lpm		20L	6"	19.3"	11.4"		**45UA83**
2L	±0.25°C	Ambient +5° to 99°C	2Lpm	Stainless Steel, Polycarbonate	2L	6"	4.3"	6"	Polyscience	**494F23**
5L	±0.25°C		5Lpm		5L	6"	10.8"	6"		**494F24**
10L	±0.25°C		10Lpm		10L	6"	11.6"	6"		**494F25**
20L	±0.25°C		20Lpm		20L	6"	17"	6"		**494F26**
28L	±0.25°C		28Lpm		28L	8"	17"	8"		**494F27**

Temp. Range	Cap.	Chamber H	Chamber W	Chamber L	Brand	Item No.
Refrigerating/Heating Circulators						
MX (Basic) Controllers						
-20° to 135°C	7L	6.18"	5.59"	6 3/16"	Polyscience	**12C221** *
-30° to 135°C	15L	5.5"	10.88"	8 1/32"	Polyscience	**12C237**
	20L	9.85"	5.5"	9 27/32"	Polyscience	**12C247**
Standard Digital Controllers						
-20° to 170°C	7L	6.18"	5.59"	6 3/16"	Polyscience	**12C228** †
-30° to 170°C	15L	5.5"	10.88"	8 1/32"	Polyscience	**12C238**
Heating Circulators						
MX (Basic) Controllers						
Ambient +10° to 135°C	7L	6.18"	5.59"	6 3/16"	Polyscience	**12C262**
	20L	5.5"	12.43"	9 27/32"	Polyscience	**12C274**
Standard Digital Controllers						
Ambient +10° to 170°C	7L	6.18"	5.59"	6 3/16"	Polyscience	**12C263**
	15L	5.5"	10.87"	8 1/32"	Polyscience	**12C269**

** Horizontal. † Vertical.*

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)



Analog
No. 33ZZ17

heidolph North America

Benchtop Autoclaves

Self-contained design eliminates external plumbing and hardwiring. 316 stainless steel chamber ensures high corrosion resistance. Fast exhaust allows quick cycle time of solids and slow exhaust prevents media and liquid boil-over. Closed-door drying system maintains sterility. Drying cycle removes residual moisture after sterilization. Continuous pressure purge eliminates air pockets. Large-capacity water reservoir helps avoid frequent fill-ups. Auto shut-off feature saves energy. Standard safety features include a heat-insulated, double locking door; automatic low-water level shut-off; over-temperature cut-off; and over-pressure valve. UL Classified.

Analog—Manually-operated sterilizers include a 60-min. cycle timer, temperature selection from 100°C to 134°C (212°F to 273°F), and combination pressure and temperature gauge with peak indicator.

Electronic—Digital display shows temperature, pressure, and running time. Up to 59-min. sterilization time and temperature selection from 105°C to 137°C (221°F to 279°F). In-line particle filter protects valves. Low-water alarm sounds when reservoir needs refilling. Feature electronic pressure and temperature sensors. Standby heating keeps chamber warm for quicker cycles. Models with printer meet GLP requirements. EA models have preloaded cycles for sterilizing packs, pouches, pipette racks, and instruments.

Cap.	Watts	Chamber Dia.	Chamber H	Voltage (AC)	Item No.
Analog Autoclaves					
7.5L	1050	7 1/64"	12 1/64"	120	**33ZZ17**
19L	1400	9 1/64"	16 13/16"	120	**33ZZ19**
19L	1400	9 1/64"	16 13/16"	220	**33ZZ20**
23L	1400	9 1/64"	16 13/16"	120	**33ZZ27**
23L	1400	9 1/64"	16 13/16"	220	**33ZZ29**
34.4L	2200	12 13/64"	18 15/32"	220	**33ZZ44**
65L	2400	15"	20"	220	**33ZZ38**
84L	2400	15"	27 1/64"	220	**33ZZ41**
Electronic Autoclaves					
19L	1400	9 1/64"	16 13/16"	120	**33ZZ21**
19L	1400	9 1/64"	16 13/16"	220	**33ZZ23**
23L	1400	9 1/64"	16 13/16"	220	**33ZZ36**
34.4L	2200	12 13/64"	18 15/32"	220	**33ZZ46**
65L	2400	15"	20"	220	**33ZZ39**
84L	2400	15"	27 1/64"	220	**33ZZ43**
Electronic Autoclaves - EA Models					
23L	1400	9 1/64"	16 13/16"	120	**33ZZ28**
84L	2400	15"	27 1/64"	220	**33ZZ45**
Electronic Autoclaves w/Printer					
19L	1400	9 1/64"	16 13/16"	120	**33ZZ22**
19L	1400	9 1/64"	16 13/16"	220	**33ZZ24**
23L	1400	9 1/64"	16 13/16"	120	**33ZZ33**
23L	1400	9 1/64"	16 13/16"	220	**33ZZ37**
34.4L	2200	12 1/2"	18 19/32"	220	**33ZZ48**
65L	2400	15"	20"	220	**33ZZ40**
84L	2400	15"	27 1/64"	220	**33ZZ42**
Electronic Autoclaves w/Printer - EA Models					
19L	1400	9 1/64"	16 13/16"	120	**33ZZ26**
23L	1400	9 1/64"	16 13/16"	120	**33ZZ30**
84L	2400	15"	27 1/64"	220	**33ZZ47**
Environmental Electronic Autoclave w/Printer					
23L	1400	9 1/64"	16 13/16"	220	**33ZZ35**
Kwiklave Electronic Autoclave w/Printer					
23L	1400	9 1/64"	16 13/16"	220	**33ZZ31**

Benchmark Scientific

BioClave™ Research Benchtop Autoclaves



No. 9V391

Provide automatic, full-cycle operation—fill, sterilize, exhaust, dry—at the push of a button. Self-contained reservoirs for clean and used water do not require direct hookup to water service. Chamber pressure, temperature, and cycle state/remaining time are shown on large, clear digital displays. Safety interlock keeps door closed until pressure reaches 0 psi. Include stainless steel rack, trays, tray handle, draining hoses, and spare door gasket and fuses.

Standard 4-cycle options are preset for sterilizing liquids, wrapped instruments, or unwrapped instruments/plasticware, and can be adjusted as needed for special applications. 5th option, Dry Only, can extend drying time at the end of a cycle. A USB drive can be inserted and used as a method for storing a report of the cycle. CE Certified.

Description	Cap.	Watts	Temp. Range	Chamber Dia.	Chamber L	Item No.
Mini Autoclave	8L	950W	121°C or 134°C	6 3/4"	12 1/2"	**8NAD4**
Autoclave	16L	1600W	121°C to 134°C	9"	13 3/4"	**9V391**





LABCONCO

Glassware Washers

- 115V washers
- Programmable drying time up to 250 min.
- 7 preset and 2 custom cycles
- 3/8" FNPT hot tap water connection
- See Grainger.com® for accessories

Dual washing and draining pumps reduce cross-contamination risk. Purified water pump brings nonpressurized or pressurized purified water into the tank for rinsing. 96 gpm recirculation rate. Fine-mesh drain filter traps debris. 304 stainless steel construction. Steam cycle penetrates and removes dried residue.

FlaskScrubber®—Includes lower spindle rack for direct-injection cleaning and forced air drying for up to 36 pieces of narrow-necked glassware.
- Rinse temp.: 180°F (82°C)

SteamScrubber®—
Designed to wash and dry beakers and other wide-mouth or specialized glassware. Includes upper and lower open rack.
- Rinse temp.: 180°F (82°C)

ScrubAir™—Thoroughly washes and dries pipette inside and out. Percolating compressed air and water clean the interior while water and detergent wash down the outside. Compressed air dries pipettes in about 4 hr. compared to up to 17 hr. with traditional overnight oven drying. No. 39GA84 has a built-in heater that decreases the drying time to 2 hr.
- 3 preset cycles and user-set delayed start
- Rinse temp.: 140°F (60°C)



ScrubAir™

Description	W	H	Mfr. Model	Item No.
FlaskScrubber				
Standard Undercounter	24.1"	34.1" to 36.1"	4420320	**9RA99**
Standard Undercounter, w/Viewing Window & Light	24.1"	34.1" to 36.1"	4420330	**39D573**
Undercounter, Low Rack, Fits ADA Height Cabinetry	24.1"	32.9" to 34.9"	4578120	**36K074**
Undercounter, Low Rack, w/Viewing Window & Light, Fits ADA Height Cabinetry	24.1"	32.9" to 34.9"	4578130	**36K076**
SteamScrubber				
Standard Undercounter	24.1"	34.1" to 36.1"	4400320	**8FYM8**
Standard Undercounter, w/Viewing Window & Light	24.1"	34.1" to 36.1"	4400330	**39D574**
Undercounter, Fits ADA Height Cabinetry	24.1"	32.9" to 34.9"	4578020	**36K070**
Undercounter, w/Viewing Window & Light, Fits ADA Height Cabinetry	24.1"	32.9" to 34.9"	4578030	**36K072**
ScrubAir				
Benchtop	14.8"	37.7"	4612020	**39GA79**
Benchtop, w/Heater	14.8"	37.7"	4612021	**39GA84**

Scan. Order. Done.
Details on page A1.



No. 32V120

Benchtop Ultrasonic Cleaners

LSS®

High-efficiency, tabletop units use high-frequency sound to safely clean instruments, parts, equipment, and other items. Models have display, digital timer control, heater with max. water temp. of 176°F (80°C), and a removable basket. Ideal for cleaning lenses and other optical parts, dental and surgical instruments, electronics, tools, pens, firearms, jewelry, and golf clubs.

Tank Cap.	Tank H	Tank W	Tank D	Timer Range	Item No.
0.8 gal.	4"	6 3/8"	3 15/16"	1 to 99 min.	**32V118**
1.59 gal.	6"	7"	5 23/32"	1 to 99 min.	**32V119**
3.12 gal.	6"	13"	5 23/32"	1 to 99 min.	**32V120**
7.13 gal.	20 5/64"	12 51/64"	7 1/8"	1 to 99 min.	**32V121**

BRANSON RAYTECH Elma SHIRACLEAN

Ultrasonic Cleaners

- Operation requires a basket or tray for both Branson and Elma Ultrasonics models, sold separately. Search on "Branson Baskets" or "Branson Trays" or "Baskets for Elma Ultrasonics" on Grainger.com®

Inaudible ultrasonic vibrations safely clean metal and plastic instruments, machinery, and parts. Size, timing, and heat options are available for a variety of industrial and laboratory cleaning tasks, and models include a cover.

Branson models can be used for cleaning, degassing, and sample preparation. Feature 40 kHz sweep frequency, industrial transducers, and a set time or hold feature for continuous cleaning. Digital models have Hi/Low power, temp. control, and automatic programming. Just set the temp. and timer for degassing and cleaning cycle. Model will start when it reaches set temp., then shutoff when timer reaches zero.

Elma® models feature multimode operation for standard and more demanding jobs. Digital units have dual 37 and 80 kHz frequency, Normal/Pulse/Sweep/Degas/Power Control settings, and Pause current application. 1- to 60-min. timer. General Purpose models have 37 kHz frequency, Pulse/Sweep settings for cleaning and mixing. 1- to 30-min. timer. No. 36C021 also offers 37 kHz frequency, Degas/Heat/Sweep Control settings, adjustable temperature plus auto-start feature.



No. 39J353



No. 36C027



No. 52RX42



No. 53KA41

Note: 230V products are available on Grainger.com; search for "230V ultrasonic cleaners."

Tank Cap.	Tank H	Tank W	Tank D	Brand	Mfr. Model	Item No.
Mechanical Timer, 120V						
0.5 gal.	4"	5 1/2"	5 1/2"	Branson	CPX-952-116R	**39J351**
0.75 gal.	4"	9 1/2"	5 1/2"	Branson	CPX-952-216R	**39J355**
1.5 gal.	6"	11 1/2"	6"	Branson	CPX-952-316R	**39J359**
2.5 gal.	6"	11 1/2"	9 1/2"	Branson	CPX-952-516R	**39J363**
5.5 gal.	6"	19 1/2"	11 1/2"	Branson	CPX-952-816R	**39J367**
Mechanical Timer, 115V Ultrasonic Frequency, 500W/40,000 Hz, Drain Function						
7 gal.	6 1/4"	35 3/4"	8"	Raytech	7631734R	**20XD74**
Mechanical Timer Plus Heat, 120V						
0.5 gal.	4"	5 1/2"	5 1/2"	Branson	CPX-952-117R	**39J352**
0.75 gal.	4"	9 1/2"	5 1/2"	Branson	CPX-952-217R	**39J356**
1.5 gal.	6"	11 1/2"	6"	Branson	CPX-952-317R	**39J360**
2.5 gal.	6"	11 1/2"	9 1/2"	Branson	CPX-952-517R	**39J364**
5.5 gal.	6"	19 1/2"	11 1/2"	Branson	CPX-952-817R	**39J368**
Digital Control Plus Heat & Timer, 120V Hi/Low Power, Sleep Mode, 120V						
0.5 gal.	4"	5 1/2"	5 1/2"	Branson	CPX-952-118R	**39J353**
0.75 gal.	4"	9 1/2"	5 1/2"	Branson	CPX-952-218R	**39J357**
1.5 gal.	6"	11 1/2"	6"	Branson	CPX-952-318R	**39J361**
2.5 gal.	6"	11 1/2"	9 1/2"	Branson	CPX-952-518R	**39J365**
5.5 gal.	6"	19 1/2"	11 1/2"	Branson	CPX-952-818R	**39J369**
Digital Control w/Dual Frequency Plus Heat, Timer and Extra Power Drain						
23.8 gal.	11 3/4"	23 5/8"	19 45/64"	Elma Ultrasonics	S900H	**36C021**
Multi-Frequency 37 or 80kHz, Drain, Variable Power						
0.7 gal.	3 1/8"	9 3/8"	5 13/32"	Elma Ultrasonics	P30H	**36C022**
1.5 gal.	5 1/8"	11 3/4"	5 23/32"	Elma Ultrasonics	P60H	**36C023**
1.8 gal.	3 1/8"	19 7/8"	5 13/32"	Elma Ultrasonics	P70H	**36C024**
3.3 gal.	7 1/8"	11 3/4"	9 13/32"	Elma Ultrasonics	P120H	**36C025**
4.7 gal.	7 1/8"	12 7/8"	11 51/64"	Elma Ultrasonics	P180H	**36C026**
7.4 gal.	7 1/8"	19 7/8"	11 51/64"	Elma Ultrasonics	P300H	**36C027**
General Purpose, Heat & Timer Plus Cleaning & Mixing Modes						
0.25 gal.	2 1/4"	7 1/2"	3 19/64"	Elma Ultrasonics	Elmasonic EP10H	**52RX42**
0.25 gal.	2 1/4"	7 1/2"	3 19/64"	Elma Ultrasonics	Elmasonic EP10	**52RX43**
0.5 gal.	3 1/8"	5 7/8"	5 13/32"	Elma Ultrasonics	Elmasonic EP20H	**52RX44**
0.75 gal.	3 1/8"	9 3/8"	5 13/32"	Elma Ultrasonics	Elmasonic EP30H	**52RX45**
1 gal.	5 1/8"	9 3/8"	5"	Elma Ultrasonics	Elmasonic EP40H	**52RX46**
1.5 gal.	5 1/8"	11 3/4"	5 1/64"	Elma Ultrasonics	Elmasonic EP60H	**52RX47**
2.5 gal.	5 1/8"	11 3/4"	9 13/32"	Elma Ultrasonics	Elmasonic EP100H	**52RX48**
3.5 gal.	7 1/8"	11 3/4"	9 13/32"	Elma Ultrasonics	Elmasonic EP120H	**52RX49**
5 gal.	7 1/8"	12 7/8"	11 13/16"	Elma Ultrasonics	Elmasonic EP180H	**52RX50**
7.5 gal.	7 1/8"	19 7/8"	11 13/16"	Elma Ultrasonics	Elmasonic EP300H	**52RX51**
Dual Frequency, Pulse, Sweep and Dynamic Functions, Heater, Drain						
7.9 gal.	11 3/4"	11 3/4"	11 1/2"	Elma Ultrasonics	Xtra ST 300H	**53KA45**
13 gal.	19 3/4"	11 3/4"	11 13/16"	Elma Ultrasonics	Xtra ST 500H	**53KA46**
15 gal.	13 3/4"	19 3/4"	13"	Elma Ultrasonics	Xtra ST 600H	**53KA47**
22 gal.	19 3/4"	19 3/4"	13"	Elma Ultrasonics	Xtra ST 800H	**53KA48**
33.3 gal.	13 3/4"	23 5/8"	13"	Elma Ultrasonics	Xtra ST 1400H	**53KA49**
42.8 gal.	17 3/4"	23 5/8"	23 39/64"	Elma Ultrasonics	Xtra ST 1600H	**53KA50**
67.4 gal.	20 1/2"	29 1/2"	25 39/64"	Elma Ultrasonics	Xtra ST 2500H	**53KA51**
Drain, Hinged Lid, Filtration, Heater, 4000W Ultrasonic Power						
50 gal.	14"	34"	18"	Shiraclean	TVT-045G	**53KA41**



No. 3KWF1



No. 42W983

BRANSON ALCONOX Critical Cleaning Experts

Ultrasonic Cleaning Concentrates

Designed for maximum effectiveness with ultrasonic cleaners.

OPTICAL CLEANER

Removes polishing compounds from glass and optical surfaces before coating deposition. Also removes soils, fingerprints, cerium oxide, pitch, and blocking waxes.

METAL CLEANERS

Metal 1 works on copper, brass, and steel substrates. Removes cutting and polishing oils and makes soils easy to remove.

Metal 2 and 3 work on ferrous metals, copper, and stainless steel, plus alloys of copper, steel, and titanium. Metal 3 acts as an emulsifier to prevent soil from redepositing.

GENERAL-PURPOSE CLEANER

Removes soils, fingerprints, dust, light oils, and greases.

INDUSTRIAL-STRENGTH CLEANER

Removes grease, oils, and particulates from mechanical components. Cleans shop oils and light carbon deposits from valves and fittings.

ALCONOX®

Concentrated powder removes soil, grease, oils, solvents, chemicals, blood, and tissue. Use on glass, metals, ceramics, plastic, and fiberglass.

CITRANOX®

Contains acid ingredients for removing scale, metal oxides, salts, and inorganic residues. Phosphate-free.

Description	Size	Brand	Item No.	Pkg. Qty.	Case Qty.
Optical Cleaner	1 gal.	Branson	**3KWF1**	4	4 gal.
Metal 1 Cleaner	1 gal.	Branson	**3KWF7**	4	4 gal.
Metal 2 Cleaner	1 gal.	Branson	**3KWG1**	4	4 gal.
Metal 3 Cleaner	1 gal.	Branson	**3KWG4**	4	4 gal.
General-Purpose Cleaner	1 gal.	Branson	**3KWF4**	4	4 gal.
Industrial-Strength Cleaner	1 gal.	Branson	**3KWG7**	4	4 gal.
Alconox, Powder	4 lb.	Alconox	**42W979**	9	—
	25 lb.	Alconox	**42W980**	1	—
	50 lb.	Alconox	**42W981**	1	—
	100 lb.	Alconox	**42W982**	1	—
Alconox, Liquid	5 gal.	Alconox	**42X026**	1	—
	15 gal.	Alconox	**42X027**	1	—
Citranox, Powder	0.5 oz	Alconox	**42W985**	12	—
	300 lb.	Alconox	**42W983**	1	—
Citranox, Liquid	55 gal.	Alconox	**42X028**	1	—

LUXO MICROSCOPES by UNITRON

Digital Microscopes

MIDAS® Color handheld inspection system captures and documents images using a polarizing filter and 5.0 MP USB 2.0 camera. Has a monocular eyepiece and is used for inspection, verification, and examination in criminology, restoration, currency, and gemstone and mineral applications. ESD-safe. Each includes Windows® and Mac® software plus instructions.



No. 5CHG5



No. 5CHG6

Optical Magnification Range	Light Source	Maximum Magnification Capability	Working Distance	Horizontal Extension	Vertical Extension	Stand Type	Mfr. Model	Item No.
10X to 200X	LED	200X	150mm	—	—	—	MIDAS	5CHG5
				12 13/64"	8 5/16"	Gooseneck	MIDAS-GS	5CHG6
				6 3/32"	6 3/32"	Single Arm Boom	MIDAS-ST	5CHG7



No. 35Y979



No. 35Y974



No. 32WA95

LSS® LW Scientific ACCU-SCOPE®

Microscopes

Instruments for use in research laboratories, industrial processes, clinical analysis, and educational configurations.

Clinical—Can magnify up to 1000X with 100X oil immersion lens. Includes dispersion filter and blue/yellow/green filters. Used for diagnosis and to identify pathogens in hospitals, medical and veterinary clinics, research laboratories, and universities.

Zoom Stereo—Gives two paths of light, allowing a 3D view of the specimen and provides focus and clarity for critical applications, such as dissection, microwelding, examining fossils and minerals, and in medical and biological applications.

Microscope Type	Optical Magnification Range	Eyepiece Type	Light Source	Base Dimensions	Brand	Mfr. Model	Item No.
Clinical Microscope							
—	40X to 1000X	Monocular	Quartz Halogen	5½" x 5"	LSS	—	35Y979
Dual Magnification Stereoscopes							
Stereo	10X to 30X	Binocular	LED	6" x 8½"	LW Scientific	DMM-S13N-7LL3	45UA30
Stereo	10X to 30X	Binocular	None	6½" x 9"	LW Scientific	DMM-S13N-PL77	45UA31
Zoom Stereo Microscope							
Stereo	7X to 45X	Binocular	LED	8" x 10½"	LW Scientific	Z4M-BZM7-7LL3	45UA29
Microscopes							
—	20X to 40X	Binocular	LED	—	LSS	—	35Y972
Stereo	20X to 40X	Binocular	—	—	LSS	—	35Y974
Stereo	7X to 45X	Binocular	—	—	LSS	—	35Y992
—	0.67X to 45X	Trinocular	—	11 13/32" x 12½"	Accu-Scope	3076-PFS	32WA84
—	0.67X to 45X	Trinocular	LED	11 13/32" x 12½"	Accu-Scope	3076-LED	32WA95
—	0.67X to 45X	Trinocular	—	10" x 20 5/16"	Accu-Scope	3076-BS	32WA96
Stereo	8X to 35X	Trinocular	LED	—	LSS	35Y988	35Y988



No. 6PTJ6

LSS® globe SCIENTIFIC INC. Heathrow Scientific

Microscope Storage and Slides

Includes	Color	Thickness	Material	Brand	Item No.	Pkg. Qty.
Microscope Slides						
75 x 25mm						
Plain	—	1mm	White Glass	LSS	20F847	72
Clipped Corners	—	1mm	White Glass	LSS	20F849	72
Single Frosted	—	1mm	White Glass	LSS	20F854	72
Premium	—	1mm	White Glass	LSS	20F855	72
Premium	White	1mm	White Glass	LSS	20F856	72
Superfrost Excell	White	1mm	White Glass	LSS	20F857	72
Double Frosted	—	1mm	White Glass	LSS	20F859	72
—	White	1mm	White Glass	LSS	20F860	72
Ground Edges	White	1mm	Single Frosted Glass	LSS	20F862	72
Ground Edges	—	1mm	Green Glass	LSS	20F863	72
Ground Edges, Clipped Corner	Clear	1mm	Green Glass	LSS	20F865	72
Ground Edges, Clipped Corner	Frosted	1mm	Green Glass	LSS	20F866	72
Ground Edges	Frosted	1mm	Green Glass	LSS	20F867	72
25 x 75mm						
—	Clear	1.1mm	Glass	Globe Scientific	46AW45	144
—	Orange	1.1mm	Glass	Globe Scientific	46AW49	144
—	Yellow	1.1mm	Glass	Globe Scientific	46AW53	144
—	Aqua	1.1mm	Glass	Globe Scientific	46AW57	144
—	Lilac	1.1mm	Glass	Globe Scientific	46AW61	144
—	White	1.1mm	Glass	Globe Scientific	46AW65	144
—	Frosted	1.1mm	Glass	Globe Scientific	46AW69	144
—	Pink	1.1mm	Glass	Globe Scientific	46AW73	144
—	Clear	1.1mm	Glass	Globe Scientific	46AW77	72
—	Gold	1.1mm	Glass	Globe Scientific	46AW81	72
Cover Slip						
22 x 22mm						
—	—	0.13-0.16mm	3.3 Borosilicate Glass	LSS	20F846	180
Microscope Cover						
24 x 50mm						
—	—	0.13-0.16mm	White Glass	LSS	20F841	65
Microscope Cover Slip						
—	—	0.13-0.16mm	3.3 Borosilicate Glass	LSS	20F845	69

No. of Slots	W	L	Brand	Item No.	Pkg. Qty.
Slide Mailer, Reuseable, Polypropylene					
5	4"	6¾"	Heathrow Scientific	6PTJ6	25
Slide Boxes, Molded Plastic w/Foam Lining					
25	3½"	—	Heathrow Scientific	8WZU8	1
25	3½"	—	Heathrow Scientific	9NP65	1
100	6¾"	—	Heathrow Scientific	8CEK2	1
100	6¾"	—	Heathrow Scientific	9X325	1
Slide Boxes, Polycarbonate w/Foam Lining					
100	1¼"	8½"	Heathrow Scientific	6PTJ0	1

DIVERSIFIED WOODCRAFTS

Microscope Storage Cases

Solid oak, hardwood, and oak veneer construction with a chemical-resistant and UV-resistant finish. Solid oak framed glazed doors are hinged with 3-pt. locking handles. 2 fixed and 3 adjustable 1"-thick shelves with weight capacity of 40 lb./sq. ft. Adjustable wire dividers allow for storage of microscopes of various sizes. No. 8GKY0 holds up to 15 microscopes, No. 8GKY1 up to 20, and No. 8RU83 up to 30.



No. 8RU83

Overall H	Overall W	Overall D	Item No.
84"	24"	16"	8GKY0
	36"		8GKY1
	48"		8RU83



Adventurer Series
No. 36TW28



HCB Series
No. 3JKJ8



Lab Safety Supply
No. 49DF49



CX Series
No. 54YT12

OHAUS ADAM LSS

Analytical and Precision Balances

Adventurer® Series—Color touchscreen lets you access 9 application modes including weighing, parts counting, percent weighing, animal/dynamic weighing, and density determination. Analytical model has 2 draftshield doors that open wide on both sides for sample placement. USB ports in front for loading data and in back to connect the balance to a PC. Include AC adapter.

EX Explorer Series—Large 5.7" full-color touchscreen display is removable. Has 13 application modes, 21 weighing units. Frameless draftshield offers antistatic glass, flip-top and large side entry doors on top-mounted bearings on 3 and 4 place balances. 4 programmable touchless sensors for hands-free operation.

Adam Equipment HCB Series—Features capacity tracking, weighing, parts counting, percentage weighing and accumulation/totalization modes. Internal calibration with built-in mass and overload protection withstand up to 200kg. USB and RS-232 with cables. Stackable. Built-in rechargeable battery and AC adapter.

Lab Safety Supply®—Features application modes for weighing, percent weighing, parts counting, check weighing, display hold, accumulate, and totalize.

CR Series—Balance provides basic weighing functionality. Built with slim, stackable design, and an enlarged platform. Also features stability indicator, mechanical and software overload/underload protection and auto shut-off. 3 AA batteries included.

CX Series—These balances have a battery life of up to 1,000 continuous hours, allowing for uninterrupted operation. They feature slim, stackable, and lightweight design. The streamlined 2-button operation means that the balance can be operated easily, and large backlit LCD display enables easy viewing of weighing results. 3AA batteries are included.

Scout SPX Series—Portable balances feature easy-to-use button operation, mechanical and software protection against shock and overload. Operate on AC adapter (included) or 4 AA batteries (not included) with auto-shutoff.

Cap.	Readability	Weighing Surface D	Weighing Surface W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Mfr. Model	Item No.
Analytical Digital Balances									
Adventurer Series									
120g	0.0001g	3½"	3½"	9 1/64"	13 15/16"	13 25/64"	Ohaus	AX124/E	**36TW26**
EX Explorer Series									
120g	0.0001g	3½"	3½"	15½"	9 7/64"	13 51/64"	Ohaus	EX124	**13P610**
220g	0.0001g	3½"	3½"	15½"	9 7/64"	13 51/64"	Ohaus	EX224	**13P611**
320g	0.0001g	3½"	3½"	15½"	9 7/64"	13 51/64"	Ohaus	EX324	**13P612**
Precision Digital Balances									
Adventurer Series									
320g	0.0001g	3½"	3½"	9 1/64"	13 15/16"	13 25/64"	Ohaus	AX324	**36TW39**
5200g	0.01g	7 51/64"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX5202	**36TW49**
1500g	0.01g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX1502/E	**36TW28**
1500g	0.01g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX1502N/E	**36TW29**
2200g	0.01g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX2202/E	**36TW31**
4200g	0.01g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX4202	**36TW42**
4200g	0.01g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX4202/E	**36TW43**
4200g	0.1g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX4201/E	**36TW41**
8200g	0.1g	7 13/16"	6 7/8"	9 1/64"	13 15/16"	3 15/16"	Ohaus	AX8201/E	**36TW57**
EX Explorer Series									
420g	0.001g	—	5 7/64"	15½"	9 7/64"	13 51/64"	Ohaus	EX423	**13P614**
1100g	0.001g	—	5 7/64"	15½"	9 7/64"	13 51/64"	Ohaus	EX1103	**13P616**
4200g	0.01g	8"	7½"	15½"	9 7/64"	3 29/32"	Ohaus	EX4202	**13P618**
10,200g	0.1g	8"	7½"	15½"	9 7/64"	3 29/32"	Ohaus	EX10201	**13P622**
35,000g	0.1g	14 7/8"	12 1/4"	17 7/16"	14 27/32"	4 23/32"	Ohaus	30057101	**19ZD65**
Adam Equipment HCB Series									
120g	0.001g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 123	**3JKJ8**
150g	0.005g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 153	**3JKK1**
600g	0.02g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 602	**3JKK7**
1000g	0.01g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 1002	**3JKK9**
1500g	0.05g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 1502	**3JKL2**
3000g	0.1g	—	4 11/16"	9½"	6 23/32"	3 7/64"	Adam	HCB 3001	**3JKL4**
Portable Digital Balances									
Lab Safety Supply									
200g	0.01g	5 3/8"	4 45/64"	8 13/32"	8"	2 19/64"	LSS	30467949	**49DF46**
400g	0.1g	5 3/8"	7½"	8 13/32"	8"	2 19/64"	LSS	30467950	**49DF47**
600g	0.1g	5 3/8"	7½"	8 13/32"	8"	2 19/64"	LSS	30467951	**49DF48**
2000g	0.1g	5 3/8"	7½"	8 13/32"	8"	2 19/64"	LSS	30467952	**49DF49**
6000g	1g	5 3/8"	7½"	8 13/32"	8"	2 19/64"	LSS	30467953	**49DF50**
CR Series									
200g	0.1g	5"	5"	5"	8"	2"	Ohaus	30428204	**54YT18**
CX Series									
200g	0.1g	5"	5"	5"	8"	2"	Ohaus	30428199	**54YT12**
2000g	1g	5"	5"	5"	8"	2"	Ohaus	30428202	**54YT13**
Scout SPX Series									
220g	0.01g	4"	4"	8 45/64"	8"	2 7/64"	Ohaus	SPX222	**49WA10**
420g	0.01g	4"	4"	8 45/64"	8"	2 7/64"	Ohaus	SPX422	**49WA11**
420g	0.1g	4"	4"	8 45/64"	8"	2 7/64"	Ohaus	SPX421	**49WA15**
620g	0.01g	4"	4"	8 45/64"	8"	2 7/64"	Ohaus	SPX622	**49WA12**
620g	0.1g	6 7/8"	5½"	8 45/64"	8"	2 7/64"	Ohaus	SPX621	**49WA16**
2200g	0.1g	6 7/8"	5½"	8 45/64"	8"	2 7/64"	Ohaus	SPX2201	**49WA17**
6200g	0.1g	6 7/8"	5½"	8 45/64"	8"	2 7/64"	Ohaus	SPX6201	**49WA18**
8200g	1g	6 7/8"	5½"	8 45/64"	8"	2 7/64"	Ohaus	SPX8200	**49WA19**



No. 8MZ63



No. 8RAN7

Moisture Analyzers

Instruments provide quick moisture content measurements for pharmaceutical, chemical, food, beverage, wastewater treatment, and research applications. GMP/GLP data output.

Ohaus—No. 8MZ63 nonglass infrared heating element for drying samples. No. 49WD15 has halogen heating and is easy to set up with press/hold time buttons to set drying parameters. No. 49WD17 ensures data safety with set-up and lock temperature settings and method parameters with administrator access. Has 4.3" TFT color touchscreen display.

A&D—Feature timed or auto shut-off modes with process temperatures up to 200°C. RS-232 port. Has WinCT Moisture Software standard for Nos. 3KWP9 and 9LE54. Optional for No. 3KWP6.

OHAUS A&D A&D Weighing

Readability	Pan Dim.	Mfr. Model	Item No.
Moisture Analyzers			
Ohaus			
0.01g/0.1%	3.50" dia.	MB23	**8MZ63**
0.01%/0.001gr	3.50" dia.	MB27	**49WD15**
0.01%/0.001gr	3.50" dia.	MB120	**49WD17**
A&D Weighing			
0.001g	3.35" dia.	MX-50	**3KWP9**
0.002g	3.35" dia.	MF-50	**3KWP6**
0.005g	3.35" dia.	ML-50	**8RAN7**
0.0001g	3.35" dia.	MS-70	**9LE54**

Description	Material	Item No.	Pkg. Qty.
Accessories			
Ohaus			
Reusable Sample Pans—Aluminum	Metal	**5RCZ8**	3
Round Weighing Boat—Aluminum	Metal	**22UR94**	80
Fiber Sample Pads	Glass Fiber	**5RCZ9**	200


No. 9U915


No. 9RVK3


No. 41U671


No. 9HW91

ETI · Qorpak A Division of Berlin Packaging · ★LSS®

Weighing Dishes and Paper

Round Weighing Dishes—Ideal for general purpose weighing, dispensing, storage, drying, and evaporating. Made of light gauge aluminum, no coating, and oil-free. Crimped sides.

Hexagonal Weighing Dishes—Designed for nonslip handling when weighing, dispensing, or pouring. Flat bottom for stability.

Square Weighing Dishes—General purpose, antistatic dishes withstand temperatures to 180°F. Flexible for easy pouring. Resistant to dilute acids, alcohols, and bases.

Pouring Dishes—Use for easy pouring and dispensing of samples. Withstand temperatures up to 200°F.

Weighing Paper—Semitransparent, high-gloss calendared glassine paper is an environmentally friendly alternative to styrene weigh boats. Very smooth surface does not absorb moisture while conveying gelatinous samples to and from balance. Easy to fold. Nitrogen free.

Cap.	L	W	D	Dia.	Color	Brand	Item No.	Pkg. Qty.
Round Weighing Dishes - Aluminum								
40mL	—	—	¼"	70mm	Gray	Eagle Thermoplastics, Inc.	**8YAR3**	50
60mL	—	—	5⁄16"	102mm I.D.	Gray		**9U915**	50
Flanged Edge								
75mL	—	—	1 3⁄16"	62mm I.D., 70mm O.D.	Gray	Eagle Thermoplastics, Inc.	**8UPJ9**	100
200mL	—	—	1⅛"	110mm I.D., 127mm O.D.	Gray		**9F177**	50
Round Weighing Dishes with Tab - Aluminum								
60mL	—	—	—	57mm	Silver	Qorpak	**41U671**	1000
20mL	—	—	—	43mm	Silver		**41U672**	1000
80mL	—	—	—	70mm	Silver		**41U673**	1000
Hexagonal Weighing Dishes - Polystyrene								
200mL	—	—	⅞"	—	White	Eagle Thermoplastics, Inc.	**8AKX8**	500
350mL	—	—	1¼"	—	White		**9RVK3**	500
Square Weighing Dishes - Polystyrene								
20mL	1⅝"	1⅝"	5⁄16"	41.28mm I.D.	Natural	Eagle Thermoplastics, Inc.	**4YMV5**	500
20mL	1⅝"	1⅝"	5⁄16"	41.28mm I.D.	Blue		**8AWJ1**	500
330mL	5½"	5½"	⅞"	—	Natural		**9HW92**	500
330mL	5½"	5½"	⅞"	—	Blue		**9HW91**	500
Pouring Dishes - Polystyrene								
20mL	2¼"	1¾"	5⁄16"	—	White	Eagle Thermoplastics, Inc.	**8AG69**	250
140mL	5⅜"	3½"	1"	—	White		**8WNW5**	250
Weighing Paper								
—	3"	3"	—	—	White	LSS	**12L005**	500
—	4"	4"	—	—	White		**12L006**	500
—	6"	6"	—	—	White		**12L007**	500

TROEMNER

Precision Weight Sets

- Class 1
- For individual calibration weights, go to Grainger.com®

Precision analytical calibration weights are made of highly polished Troemner Alloy 8 stainless steel for low magnetic susceptibility, uniform consistency, and high corrosion resistance. NIST items include calibration certificate.


No. 9EZG8

No. of Pieces	Nom. Mass	Mfr. Model	STANDARD Item No.	NIST Item No.
24	500g to 1mg	7219-1	**9EYJ2**	**8CFG1**
23	200g to 1mg	7221-1	**8CJC5**	**8UPM1**
22	200g to 1mg	7223-1	**8TJU2**	**9G728**
21	100g to 1mg	7228-1	**9EZG8**	—
9	100g to 1g	7224-1	—	**8RH58**


No. 21TR61


No. 9VXM4

No. 8RLU5


No. 21TZ92


No. 5EER2

Bel-Art · H-B Instrument SP SCIENCEWARE™ · Dynalon Labware quality . value . service · Chemglass Life Sciences · smartSpatula®

Scoops, Spatulas and Spoons

SCOOPS

Polyethylene—Nonspill shape scoops have a closed back and rounded corners for easy cleaning. Offer an ergonomically angled handle.

SPATULAS

Stainless Steel—Rounded blade end won't damage sensitive materials.

Polyamide—Glass fiber reinforced. Resist solvents but not recommended for use with acids or oxidizing agents. No. 9MW38 is a double spatula and No. 9AU83 is a spoon/spatula.

Polypropylene—Chemical- and heat-resistant to 275°F.

Disposable—Meet FDA regulations for food contact. Feature one spatula end and one scoop end.

V-Shape—Strong enough to break up caked materials. No. 8RLU5 is individually wrapped, sterile.

SPOONS

Polypropylene—Steam autoclavable at 250°F (121°C). Chemical- and corrosion-resistant.

Polystyrene—Individually wrapped, sterile. No. 8DAL7 is flat-bottomed for use as a weighing dish.

Stainless Steel—Double-ended spoons have 2 bowl sizes. Spoon/spatulas feature a spatula end and a curved spoon end for retrieving solids and thick liquids in tall containers.

Cap.	Overall L	Overall W	Color	Brand	Item No.	Pkg. Qty.
Scoops						
Polyethylene						
1 liter/1 qt.	25.4cm, 10"	14cm, 5.5"	Opaque	SP Scienceware	**21TR61**	1
4 liter/1 gal.	38.1cm, 15"	18.1cm, 7.125"	Opaque	SP Scienceware	**21TT18**	1
Spatulas						
Polyamide						
—	7.1"	0.5125"	Red	Dynalon	**9MW38**	10
—	7.1"	0.8755"	Red	Dynalon	**9AU83**	10
Polypropylene						
—	7.8"	1.1925"	Translucent	Dynalon	**8C138**	12
—	6.5"	0.999"	Translucent	Dynalon	**5EER4**	12
—	9.9"	1.5"	Translucent	Dynalon	**8C137**	10
Stainless Steel						
—	9"	—	Nickel Stainless	Chemglass	**21TZ92**	1
—	12"	—	Nickel Stainless	Chemglass	**21UC48**	1
—	18"	—	Nickel Stainless	Chemglass	**21UC97**	1
Disposable Double Ended Spatulas						
Polypropylene						
Scoop Fits in 0.2 ml Tube	5.5"	0.125"	Opaque	Smartspatula	**9X947**	300
Spoon Fits 15 ml Tube, Scoop 1.5 ml Tube	8.25"	0.25"	Blue	Smartspatula	**9VXM4**	300
Spoon Fits 15 ml Tube, Scoop 1.5 ml Tube	8.25"	0.25"	Opaque	Smartspatula	**9GFZ4**	300
Spoon Fits 50 ml Tube	12.25"	0.5"	Green	Smartspatula	**9X258**	150
V-Shape Spatula						
Sterile, Polystyrene						
—	22.9cm, 9"	—	White	SP Scienceware	**8RLU5**	100
Spoons						
Polypropylene						
4.93mL/1 tsp.	17.8cm/7"	3cm/1-3/16"	White	SP Scienceware	**4YMT2**	12
Sterile, Polystyrene						
1.25mL/ ¼ tsp	17.8cm, 7"	2cm, 0.8125"	White	SP Scienceware	**8AV25**	200
2.46mL/1/2 tsp	17.8cm/7"	2.5cm/1"	White	SP Scienceware	**9DLM3**	200
4.93mL/1 tsp	17.8cm, 7"	3cm, 1.1875"	White	SP Scienceware	**5EER2**	200
30mL/1 oz.	25.7cm, 10.125"	5.6cm, 2.1875"	White	SP Scienceware	**9G723**	25
1.25mL/0.04 oz.	10.3cm, 4.0625"	1.3cm, 0.5"	White	SP Scienceware	**8DAL7**	100
Double Ended Spoons						
304 Stainless Steel						
0.5mL/2.0mL	15cm	—	Silver	SP Scienceware	**9GDM9**	2
0.8mL/2.8mL	18cm	—	Silver	SP Scienceware	**9W663**	2
1.6mL/3.0mL	21cm	—	Silver	SP Scienceware	**8AUV3**	2
1.6mL/3.0mL	21cm	—	Silver	SP Scienceware	**9PMM8**	2
2.0mL/8.0mL	30cm	—	Silver	SP Scienceware	**9MC81**	2
Double Ended Spoon/Spatula						
Stainless Steel						
5 mL	30.5cm, 12"	3.7cm, 1.5"	White Spatula/ Silver Spoon	SP Scienceware	**9AH31**	1

Scan. Order. Done.
Details on page A1.


No. 9KWD5


No. 22LC60


No. 55NT92


No. 36RN34


No. 22CZ35


No. 55NU01

No. 32GD76




No. 404P65


No. 8PA14

Hotplates

Electric hotplates are for light or heavy industrial use. 304 stainless steel construction with a durable ½" aluminum top plate that will not crack or chip. Ceramic plates have a chemical-resistant, reflective white surface that is easy-to-clean.

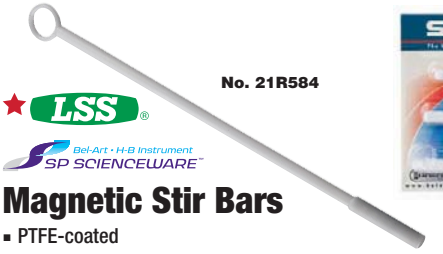
Plate L	Plate W	Plate Material	Load Cap.	Temp. Range	Brand	Item No.
12"	6"	Aluminum	100 lb.	100° to 550°F	Valad	32GD72
12"	12"		150 lb.		Valad	32GD77
12"	12"		150 lb.		Valad	32GD76
18"	12"		150 lb.		Valad	32GD78
18"	18"		200 lb.		Valad	32GD84
24"	12"		200 lb.		Valad	32GD80
24"	12"		200 lb.		Valad	32GD81
24"	18"		300 lb.		Valad	32GD87
24"	18"		300 lb.		Valad	32GD86
24"	24"		300 lb.		Valad	32GD88
27"	6.8"		5.3 gal.	5° to 40°C	Stuart	55NU01
28"	14"		200 lb.	100° to 550°F	Valad	32GD82
36"	24"		300 lb.		Valad	32GD90
36"	24"		300 lb.		Valad	32GD91
27"	6.8"	Ceramic Coated Aluminum	5.3 gal.	5° to 40°C	Stuart	55NT96
4"	4"	Ceramic	9 lb.	5° to 500°C	Ohaus	404P64
4"	4"		9 lb.		Ohaus	404P65
6"	6"		5.3 gal.	450°C	Stuart	55NU67
6"	6"		5.3 gal.		Stuart	55NU93
7.1"	7.1"		9 lb.	4° to 65°C	Benchmark	8PA14

Magnetic and Hotplate Stirrers

- All models have 1 stirring position, except Nos. 22LC60 and 22LC59 offer 10

Durable Aluminum plates will not crack or chip. Ceramic plates have a chemical-resistant, reflective white surface that is easy-to-clean. Stainless Steel plates resist corrosion. Digital Magnetic Stirrers are equipped with powerful magnets and motor, giving fast and precise stirring operations. Allow digital PID feedback control for every single point. Provide strong magnetic coupling, ensuring constant stirring along with various time setting modes.

Plate L	Plate W	Plate Dia.	RPM	Load Cap.	Temp. Range	Brand	Item No.
Magnetic Stirrers							
Ceramic Plate							
5"	5"	—	0 to 1500	—	—	Dlab	22CZ34
5.75"	8"	—	60 to 1500	84.5 oz.	—	Benchmark	9KWD5
Polyester Plate							
4"	4"	4"	15 to 1500	27 oz.	—	Burell	38MW97
Stainless Steel Plate							
17"	7"	—	0 to 1100	13.5 oz.	—	Dlab	22LC60
Digital Magnetic Stirrers							
Polyester Plate							
—	—	4"	20 to 1500	—	—	Cole-Parmer Elements	55NT92
Glass Plate							
—	—	3.7"	100 to 1500	—	—	Cole-Parmer Elements	55NT93
4.8"	4.3"	—	100 to 1500	—	—	Cole-Parmer Elements	55NT94
—	—	3.7"	100 to 1500	—	—	Cole-Parmer Elements	55NT95
Ceramic Coated Aluminum Plate							
—	—	13.5"	100 to 1800	—	—	Stuart	55NT98
Hotplate-Stirrers							
Aluminum Plate							
7"	7"	—	60 to 1600	40 lb.	5° to 400°C	Pro Scientific Inc.	12F250
Aluminum, Ceramic Plate							
—	—	145mm	30 to 1400	55.1 lb.	20° to 300°C	Heidolph	36RN34
—	—	145mm	100 to 1400	55.1 lb.	20° to 300°C	Heidolph	36RN38
Ceramic Plate							
¾"	—	6"	50 to 1500	6.25 lb.	0° to 350°C	United	23YX14
—	—	5"	0 to 1500	5.2 gal.	40° to 340°C	Dlab	22CZ33
Ceramic Plate, Black							
6"	6"	—	50 to 1250	5.3 gal.	450°C	Stuart	55NU71
Ceramic Plate, Premium White							
6"	6"	—	50 to 1250	5.3 gal.	450°C	Stuart	55NU91
Ceramic Plate							
7.1"	7.1"	—	60 to 1500	9 lb.	4° to 65°C	Benchmark	8NCF7
PVDF Plate							
—	—	104mm	0 to 2200	13.2 lb.	—	Heidolph	36RN33
Stainless Steel Plate							
17"	7"	—	0 to 1100	13.5 oz.	5° to 40°C	Dlab	22LC59
—	5¾"	6"	50 to 1700	6.25 lb.	0° to 350°C	United	23YX13
Digital Hotplate Stirrers							
Ceramic Plate							
7"	7"	—	0 to 1500	2.6 gal.	40° to 550°C	Dlab	22CZ35
7"	7"	—	100 to 1500	5.2 gal.	40° to 550°C	Dlab	22CZ36


No. 21R584



No. 9NZJ0

Magnetic Stir Bars

- PTFE-coated

Shape	Size	Color	Brand	Item No.	Pkg. Qty.
Magnetic Retriever					
Rod	12"	White	LSS	21R584	2
Stir Bar Assortments					
Octagonal	1 x 5/16, 1½ x 5/16, 2 x 5/16"	White	SP Scienceware	9NZJ0	6
Round	1 x 5/16, 1-1/2 x 5/16, 2 x 5/16"	White	SP Scienceware	8DK48	6
Round	1¼" x ⅜"	White	LSS	21R587	10
Round	2 9/16" x ⅜"	White	LSS	21R588	5
Stir Bars					
Octagon	2" x 5/16"	White	LSS	21R568	10
Octagon	⅞" x 5/16"	White	LSS	21R569	10
Octagon	1½" x 5/16"	White	LSS	21R570	10
Octagon	¼" x 13/32"	White	LSS	21R590	10
Octagonal	1 x 5/16"	White	SP Scienceware	6TVR6	1
Octagonal	1½ x 5/16"	Yellow	SP Scienceware	6TVP5	1
Octagonal	1 x ⅜"	White	SP Scienceware	6TVT3	1
Octagonal	3 x ½"	Blue	SP Scienceware	6TVR2	1
Polygon	⅞ x 3/16"	White	SP Scienceware	6XNU9	1
Polygon	1 x ⅜"	White	SP Scienceware	6XNT8	1
Polygon	2 x ⅜"	White	SP Scienceware	6XNT0	1
Polygon	20 x 8mm	White	LSS	21R558	10
Polygon	6¼" x 1 1/16"	White	SP Scienceware	6XNP8	1

Shakers

Digital shakers are programmable and can be used in cold rooms and incubator or CO_2 environments. Platforms accommodate various flask clamp sizes. No. 53KC02 includes base tray. Nos. 53KC07 and 13R338 include clamps. Nos. 53KC17 and 13R340 include adhering rubber mat. Nos. 14N112 and 36XL36 are microplate shakers. Universal Platform No. 14N123 is designed for use with Erlenmeyer flasks and test tube racks. This unique magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Note: Clamps are available separately on Grainger.com®; search for "lab shaker clamps."

Speed Range	Load Cap.	Overall H	Overall W	Overall D	Brand	Item No.
Orbital Shakers						
0 to 100 rpm	6.6 lb.	3.5"	14"	14"	Genie	**53KC02**
0 to 300 rpm	6.6 lb.	3.5"	14"	14"	Genie	**53KC07**
	6.6 lb.	3.5"	14"	14"	Genie	**53KC12**
	6.6 lb.	3.5"	14"	14"	Genie	**53KC17**
3 to 70 rpm	9 lb.	8"	14"	12"	Benchmark Scientific	**14N113**
10 to 300 rpm	26 lb.	7"	23"	20"	Genie	**13R338**
	26 lb.	7"	23"	20"	Genie	**13R339**
	26 lb.	7"	23"	20"	Genie	**13R340**
20 to 450 rpm	22 lb.	6.1"	17.7"	24.9"	Lab Companion	**52RY20**
30 to 300 rpm	14 lb.	3"	11"	13"	Benchmark Scientific	**14N122**
	65 lb.	5"	21.25"	18.5"	Benchmark Scientific	**39P097**
	23 lb.	5.9"	29.6"	24.7"	Lab Companion	**52RY22**
30 to 500 rpm	61 lb.	4.8"	22.9"	24.3"	Lab Companion	**45H102**
	61 lb.	4.8"	29.7"	26.1"	Lab Companion	**45H103**
	22 lb.	5.9"	29.6"	24.7"	Lab Companion	**52RY21**
50 to 300 rpm	9 lb.	5"	11"	10.75"	Benchmark Scientific	**14N120**
	—	5.1"	13.1"	10.9"	Lab Companion	**45H142**
200 to 1500 rpm	—	4.5"	11"	10.75"	Benchmark Scientific	**14N112**
Orbital or Reciprocating Shakers						
20 to 500 rpm	22 lb.	5.7"	12.6"	15.3"	Lab Companion	**52RY18**
	22 lb.	5.6"	13.8"	20"	Lab Companion	**52RY19**
Reciprocating Shaker						
150 to 1200 rpm	9 lb.	5"	9.8"	13"	Lab Companion	**36XL36**
Waving Shaker						
8 to 100 rpm	18 lb.	5.9"	10.8"	12.6"	Lab Companion	**36XL39**

Description	H	W	D	Brand	Item No.
Shaker Accessory					
MAGic Clamp™ Magnetic Universal Platform for Flasks and Tube Racks	1	14	12	Benchmark Scientific	**14N123**


No. 14N113


No. 13R338


No. 14N122


No. 45H142


No. 36XL36


No. 36XL39

Incubating Shakers

Use with platforms, flask clamps, test tube racks, microplate holders, and rubber mats.

Lab Companion—Microprocessor-controlled floor-standing shakers have a large capacity of up to five 6L flasks. An easy-to-read LCD display and imbalance sensor help assure reliable operation, while the RS-232 interface and USB port give you external controls and let you export data to another device for later review.

Ohaus®—Provide accurate and repeatable results. Nos. 404P69 to 404P72, and 404P75 have touchpad LED displays for temperature, speed/tilt angle, time, and all settings can be viewed simultaneously. Spill-resistant design with overload protection gives audio/visual alarm. No. 404P68 is a cooling orbit shaker and No. 404P74 is a cooling skater.

Speed Range	Load Cap.	Overall H	Overall W	Overall D	Brand	Item No.
Ambient -20° to 80°C						
10 to 500 rpm	45 lb.	33.6"	22.81"	32.1"	Lab Companion	**45KN24**
	45 lb.	36.8"	26.7"	35.2"	Lab Companion	**45KN30**
Ambient -15° to 80°C						
10 to 500 rpm	35 lb.	20.1"	17.31"	30.9"	Lab Companion	**45KN25**
	45 lb.	20.1"	21.31"	35"	Lab Companion	**45KN31**
30 to 500 rpm	35 lb.	33.6"	44.4"	40.8"	Lab Companion	**45KN29**
	100 lb.	33.6"	44.4"	40.8"	Lab Companion	**45KN26**
Ambient -13° to 100°C						
300 to 3000 rpm	2 lb.	5.2"	9.8"	6"	Ohaus	**404P73**
Ambient -10° to 65°C						
100 to 1200 rpm	2 lb.	10.5"	11"	14"	Ohaus	**404P68**
Ambient 4° to 100°C						
300 to 3000 rpm	2 lb.	5.2"	9.8"	6"	Ohaus	**404P74**
Ambient 5° to 65°C						
1 to 30 rpm	5 lb.	10.5"	12"	17"	Ohaus	**404P75**
1 to 50 rpm	10 lb.	10.5"	12"	17"	Ohaus	**404P72**
100 to 1200 rpm	2 lb.	7.8"	11"	12"	Ohaus	**404P70**
	2 lb.	7.8"	11"	12"	Ohaus	**404P71**
	8 lb.	7.8"	11"	12"	Ohaus	**404P69**
Ambient 5° to 80°C						
10 to 500 rpm	35 lb.	20.1"	17.31"	30.9"	Lab Companion	**45KN23**
	45 lb.	20.1"	21.31"	35"	Lab Companion	**45KN28**
	45 lb.	33.6"	22.81"	32.1"	Lab Companion	**45KN22**
	45 lb.	36.8"	26.7"	35.2"	Lab Companion	**45KN27**
30 to 300 rpm	35 lb.	33.6"	44.4"	40.8"	Lab Companion	**45KA52**
30 to 500 rpm	100 lb.	33.6"	44.4"	40.8"	Lab Companion	**45KN21**


No. 404P73


No. 404P68


No. 45KN22


No. 45KN21


No. 45UA78

Platelet Rotators

- Speed: 0 to 9 rpm
- 110V

LW Scientific

Feature durable construction and built-in tachometer to monitor speed easily. Designed with a whisper-quiet, heavy-duty motor with variable speed control. Easy loading and unloading; hold up to 12 platelet bags per basket. Stainless steel basket rotates 360° smoothly. Ideal for use in blood banks.

Includes	Overall H	Overall W	Overall D	Mfr. Model	Item No.
Basket	11"	10"	15"	RTL-PLV1-12B1	**45UA81**
(3) Baskets	11"	10"	26"	RTL-PLV3-36B1	**45UA79**
(4) Baskets	11"	10"	31"	RTL-PLV4-48B1	**45UA78**


No. 12F236


No. 13R324

Rockers and Rotators

Benchmark Scientific · PRO Scientific · Scientific Industries, Inc.

ROCKERS

Produce reliable results in staining, destaining, blotting, and gentle mixing. Available with 2-dimensional see-saw action and 3-dimensional gyrating (swirl) action.

BlotBoy™ 3D—Tridirectional tilt angle and speed are optimally set for blot washes and gel staining/destaining. Supplied with 12" x 12" platform and autoclavable flat mat.

BenchRocker™ 3D—Provides variable speeds and tilt angles required for molecular and biological mixing. Includes 12" x 12" platform and 2 mats (flat and dimpled).

VSR-50—Has a rhythmic side-to-side motion. Interchangeable tables can be tilted 15°. With 12" x 14" platform. Includes nonslip rubber mat.

ROTATORS

Rotator Genies hold a wide variety of tubes, flasks, microplates, bags, and odd-shaped vessels at any angle. No. 13R325 has a spring-clip plate system. No. 13R322 can quickly convert from rocking to rotating motion in seconds. Magnetic platform and clip plate system securely holds a variety of containers.


No. 13R322

Description	Speed Range	Overall H	Overall W	Overall D	Brand	Mfr. Model	Item No.
Rockers							
BlotBoy™3D Nutating Gyratory Rocker	Fixed, 12 rpm (10 rpm, 230V)	8.3"	12"	12"	Benchmark Scientific	B3D1308	**5RHV4**
BenchRocker™3D Gyratory Rocker	2 to 30 rpm	—	60"	12"	Benchmark Scientific	B3D2300	**5RHV7**
VSR-50 Rocker	0 to 100 rpm	5"	12"	11"	PRO Scientific Inc.	512000-00	**12F236**
Rotators							
Rotator w/Standard Platform	5 to 35 rpm	15.8"	15.8"	7"	Genie	SI-2100	**13R324**
Rotator w/Magnetic Platform	5 to 35 rpm	15.8"	15.8"	7"	Genie	SI-2200	**13R325**
Rocker/Rotator							
Includes Magnetic Platform	5 to 35 rpm	10.5"	9.9"	20"	Genie	SI-1100	**13R322**

Description	Brand	Mfr. Model	Item No.
Accessories			
Stacking Platform with Flat Mat for 3D BenchRocker Gyratory Rocker	Benchmark Scientific	BR1000-STACK	**5RHV0**
Stacking Platform with Dimpled Mat for 3D BenchRocker Gyratory Rocker	Benchmark Scientific	BR1000-STACK-D	**5RHV1**
Dual Stacking Platform with (4) 5" Standoffs for VSR-50	Pro Scientific Inc.	517100-00	**12F237**


No. 14N110


No. 404P97


No. 39P068


No. 38RU12

OHAUS · Benchmark Scientific · heidolph North America

Vortex Mixers

Speed Range	Special Features	Brand	Mfr. Model	Item No.
Heavy-Duty Vortex Mixers				
300 to 3500 rpm	Analog, Heavy Duty, Variable Speed	Ohaus	VXHDAL	**404P95**
300 to 3500 rpm	Digital, Heavy Duty, Variable Speed	Ohaus	VXHDDG	**404P96**
Microplate Vortex Mixers				
300 to 3500 rpm	Analog, Variable Speed	Ohaus	VXMPAL	**404R02**
300 to 3500 rpm	Digital, Variable Speed	Ohaus	VXMPDG	**404R03**
Microtube Vortex Mixer				
200 to 3200 rpm	—	Benchmark Scientific	BV1005	**14N110**
Mini Vortex Mixers				
0 to 3200 rpm	Variable Speed	Ohaus	VXMNFS	**404P99**
300 to 3200 rpm	Analog, Variable Speed	Ohaus	VXMNAL	**404P97**
500 to 3000 rpm	Digital, Variable Speed	Ohaus	VXMNDG	**404P98**
500 to 3000 rpm	Fixed Speed	Ohaus	VXMNPS	**404R01**
Multi-Tube Vortex Mixer				
500 to 2500 rpm	—	Benchmark Scientific	BV1010	**39P068**
Reax Top Vortex Mixer				
0 to 2500 rpm	Ridged Mixing Orbit	Heidolph	036130000	**38RU12**
Reax Control Vortex Mixer				
0 to 2500 rpm	Ridged Mixing Orbit	Heidolph	036130020	**38RU14**
Reax All-Purpose Vortex Mixer				
150 to 2000 rpm	—	Heidolph	036130040	**38RU16**
Vortex Mixer				
200 to 3200 rpm	CE Compliance, Touch or Continuous Operating Modes	Benchmark Scientific	BV1000	**8VTJ8**

Heavy-Duty Vortex—Designed for continuous-duty operation and has the ability to handle accessory components over entire speed range. Include detachable 3-wire cord and plug, universal holder, foam insert for 1.5 to 2mL microtubes and cup head, and tube rack.

Microplate Vortex—Provides high-speed and small orbit for effectively and consistently mixing of microplates. Delivers continuous duty throughout the speed range. Includes microplate adapter, cup head, and detachable 3-wire cord and plug.

Microtube Vortex—Features a Multi-Head™ cup head for general-purpose mixing of up to eight microcentrifuge tubes and includes a microtube holder.

Mini Vortex—Sturdy design provides stability and reliability vortexing action. Offers gentle shaking or high speed mixing for vigorous vortexing of samples.

Multi-Tube Vortex—Allows multiple samples to be processed simultaneously. Displays digital time and speed are controlled by a digital microprocessor with interval pulse mode allows more vigorous mixing.

Reax Vortex—Standard model No. 38RU12 has 5mm vibration orbit for use with high-viscosity media or solids. Features continuous/automatic switch modes and includes a plate for 20mm dia. test tubes. No. 38RU14 features an analog dial speed control with accurate rpm numbers setting and electronic speed control with constant rpm output. All-purpose No. 38RU16 has 3mm vibration orbit and includes an attachment for 26 vessels (10 to 16mm) and 12 vessels (16 to 32mm). Digital process timer allows for unattended operation from 1 to 999 min.

Vortex—Counter-balance system creates instant vortexing action while providing smooth vortexing including large sample sizes such as full 50mL tubes. Has cold room incubator compatibility and suction feet securely hold samples, preventing spillage. Speed range from 200 to 3200 rpm and 3mm vibration orbit.



Brass Frame
No. 22LD08



Stainless Steel Frame
No. 12M467

Test Sieves

- Stainless steel screens

Each sieve is serialized and includes certificate of compliance to ASTM E11.

Note: For a full line of sieves, go to Grainger.com® and search for "test sieves."

Mesh Size	Brand	Brass Frame Item No.	Stainless Steel Frame Item No.
3" Outside Dia.			
5	Endecotts	22LD08	—
7	Endecotts	22LD06	—
10	Endecotts	22LD04	—
12	Endecotts	22LD03	—
14	Endecotts	22LD02	—
18	Endecotts	22LC99	—
20	Endecotts	22LC98	22LD41
25	Endecotts	22LC97	—
30	Endecotts	22LC96	—
35	Endecotts	22LC95	22LD38
40	Endecotts	22LC94	22LD37
50	Endecotts	22LC92	22LD35
60	Endecotts	22LC91	—
70	Endecotts	22LC90	—
80	Endecotts	22LC89	22LD32
100	Endecotts	22LC88	22LD31
120	Endecotts	—	22LD30
8" Outside Dia.			
6	Endecotts	22LD65	—
7	Endecotts	22LD73	—
10	Endecotts	22LD75	—
12	Endecotts	22LD76	—
14	Endecotts	22LD77	—
18	Endecotts	22LD78	—
20	Endecotts	22LD56	—
25	Endecotts	22LD67	—
30	Endecotts	22LD57	—
40	Endecotts	22LD58	—
50	Endecotts	22LD59	—
60	Endecotts	22LD60	—
70	Endecotts	22LD61	—
100	Endecotts	22LD62	—
140	Endecotts	22LD68	—

Mesh Size	Brand	Brass Frame Item No.	Stainless Steel Frame Item No.
1" Depth to Mesh			
5	Advantech	—	12M619
6	Advantech	12M543	—
8	Advantech	12M548	—
10	Advantech	12M516	12M594
12	Advantech	12M518	12M596
14	Advantech	12M520	12M598
16	Advantech	12M522	—
18	Advantech	12M524	—
20	Advantech	12M525	12M604
25	Advantech	12M528	—
30	Advantech	12M532	12M611
35	Advantech	12M534	—
40	Advantech	12M536	12M615
45	Advantech	12M538	—
50	Advantech	12M541	12M620
60	Advantech	12M544	—
70	Advantech	12M547	—
80	Advantech	12M549	—
100	Advantech	12M517	12M595
120	Advantech	12M519	12M597
2" Depth to Mesh			
3.5	Advantech	12M531	—
4	Advantech	8C838	8Y449
5	Advantech	9K156	—
6	Advantech	8N627	8Y450
7	Advantech	9HMA0	9LJ91
8	Advantech	9J265	9K286
10	Advantech	8C794	8RH70
12	Advantech	9LJ64	8VR88
14	Advantech	8C795	—
16	Advantech	8UNU2	9X505
18	Advantech	8Z405	—
20	Advantech	9JZY6	8Y455
25	Advantech	9NRR4	—
30	Advantech	8CAP3	9TAY6
35	Advantech	8C796	8N778
40	Advantech	8CAU2	8TKA6
45	Advantech	8X781	—
50	Advantech	9JZK9	8TKA7
60	Advantech	9AGT5	—
70	Advantech	—	8Z745
80	Advantech	9VZE7	9HNA1
100	Advantech	9W632	8TKA8
120	Advantech	9WE64	9DYF7

Mesh Size	Brand	Brass Frame Item No.	Stainless Steel Frame Item No.
12" Outside Dia.			
1.625" Depth to Mesh			
4	Advantech	13R936	—
8	Advantech	13R966	—
10	Advantech	13R896	—
14	Advantech	—	13T025
16	Advantech	13R911	—
18	Advantech	—	13T033
20	Advantech	13R918	13T035
30	Advantech	13R930	13T047
40	Advantech	13R938	—
50	Advantech	13R951	—
100	Advantech	13R899	13T019
2" Depth to Mesh			
4	Advantech	9PVH7	—
6	Advantech	9MGA0	—
8	Advantech	9WUN5	—
16	Advantech	9LHT4	—
20	Advantech	8CKP6	—
50	Advantech	9G583	—
100	Advantech	9NT86	—
3.25" Depth to Mesh			
3.5	Advantech	13R970	—
4	Advantech	13R935	13T054
5	Advantech	13R947	13T064
6	Advantech	13R955	13T070
7	Advantech	13R962	—
8	Advantech	13R967	12M467
10	Advantech	13R897	13T018
12	Advantech	13R902	13T021
14	Advantech	13R906	13T026
16	Advantech	13R910	13T030
18	Advantech	13R915	—
20	Advantech	13R917	13T036
25	Advantech	13R924	—
30	Advantech	13R929	13T048
35	Advantech	—	13T052
40	Advantech	13R937	13T056
50	Advantech	13R950	13T066
60	Advantech	13R957	13T071
70	Advantech	—	13T077
80	Advantech	—	12M469
100	Advantech	13R898	13T020

Mesh Size	Brand	Brass Frame Item No.	Stainless Steel Frame Item No.
8" Outside Dia.			
1" Depth to Mesh			
½"	Advantech	—	12M565
2" Depth to Mesh			
0.265"	Advantech	—	12M551
⅛"	Advantech	—	12M569
¼"	Advantech	12M487	12M567
5⁄16"	Advantech	12M509	12M587
⅜"	Advantech	12M505	12M582
7⁄16"	Advantech	12M513	12M590
½"	Advantech	12M486	12M564
¾"	Advantech	12M503	12M580
1"	Advantech	12M482	—
1¼"	Advantech	12M478	—
1½"	Advantech	—	12M554
12" Outside Dia.			
1.625" Depth to Mesh			
⅛"	Advantech	—	13R991
¼"	Advantech	13R856	13R989
⅜"	Advantech	13R880	13T006
½"	Advantech	13R853	—
¾"	Advantech	13R877	—
2" Depth to Mesh			
¼"	Advantech	13R855	—
⅜"	Advantech	13R879	—
½"	Advantech	13R852	—
¾"	Advantech	13R876	—
1"	Advantech	13R847	—
1¼"	Advantech	13R840	—
1½"	Advantech	13R837	—
3.25" Depth to Mesh			
⅛"	Advantech	13R857	—
¼"	Advantech	13R854	13R990
5⁄16"	Advantech	13R884	13T009
⅜"	Advantech	13R878	13T005
½"	Advantech	13R851	13R987
⅝"	Advantech	13R887	—
¾"	Advantech	13R875	13T003
⅞"	Advantech	—	13T015
1"	Advantech	13R845	13R983
1½"	Advantech	13R838	—
2"	Advantech	13R865	13R994
3"	Advantech	13R874	13T002



No. 8VPR5

No. 8CJP9

Sieve Pans and Covers

Matching 8" and 12" pans and covers for use with ASTM E11 sieves. Covers include lifting ring.

Outside Dia.	Overall D	Brand	Brass Item No.	Stainless Steel Item No.
Receiver				
3"	—	Endecotts	22LD16	22LD19
3.2"	1.25"	Endecotts	—	22LD17
8"	—	Endecotts	22LD71	—
8"	—	Endecotts	22LD72	—
Sieve Covers				
3"	—	Endecotts	22LD15	22LD18
8"	—	Endecotts	22LD70	—
8"	0.375"	Advantech	8N518	8VPR5
12"	0.375"	Advantech	13R827	13R828
Test Pans				
8"	1"	Advantech	9LHR3	8Y270
8"	2"	Advantech	9TA04	8CJP9
12"	1.625"	Advantech	9MJD5	13R156
12"	3.25"	Advantech	—	13R157
12"	3.5"	Advantech	13R155	—



No. 16Y898



No. 22FP46

Sieve Shakers

Meinzer II™ Tabletop Sieve Shaker—Portable electromagnetic vibrating shaker accommodates 8 full-height or 15 half-height sieves, plus pan and cover. Mechanical timer.

DuraTap™ Motorized Sieve Shakers—Made with rugged steel and alloy materials. Digital timer.

Sonic Sifter Separators—Settings can be varied for different dry particle densities and textures with automatic timing that ensures repeatable and reproducible results. Oscillating column of air tries the particles 60 times per sec. allowing for reduced testing times. Precise sieving instrument for fine particle separations ranging from 5.6mm to 3 microns.

Endecotts Sieve Shakers—Analog models have a 0- to 60-min. timer, or can be set for continuous sieving. Digital models have an electromagnetic drive and are suitable for wet or dry sieving.

Description	Sieve Dia.	Power Req.	Mfr. Model	Item No.
Advantech				
Meinzer II Tabletop Sieve Shaker	8"	110 VAC,60 Hz	MeinII	16Y908
DuraTap Motorized Sieve Shakers	8"	110 VAC,50 Hz	DT158	16Y899
	8"	110 VAC,60 Hz	DT168	16Y898
	8"	220 VAC,50 Hz	DT258	16Y901
	8"	220 VAC,60 Hz	DT268	16Y902
	12"	110 VAC,60 Hz	DT1612	16Y903
	12"	220 VAC,50 Hz	DT2512	16Y905
	12"	220 VAC,60 Hz	DT2612	16Y904
Sonic Sifter Separators	3"	110 VAC,50 Hz	L3P-15	40PR69
	3"	110 VAC,60 Hz	L3P	40PR25
	3"	220 VAC,50 Hz	L3P-25	40PR43
	3"	220 VAC,60 Hz	L3P-26	40PR31
Endecotts				
Sieve Shakers, Analog Timer	8"	110VAC, 60 Hz	MIN200/11060	22FP50
	8"	220VAC, 50 Hz	MIN200/23050	22FP51
Sieve Shakers, Digital Timer	8"	110VAC, 60 Hz	OCT200/11060	22FP46
	8"	220VAC, 50 Hz	OCT200/23050	22FP47


MyFUGE™


USA E8


Universal


Microliter

Centrifuges

MyFUGE™ Mini Centrifuge—Space-saving personal centrifuge has easy lid-activated Start/Stop control. Near-silent operation.
- Includes adapters for 0.5 and 0.2mL
- Choose lid color: blue, green, red, purple, or clear

USA E8 Variable-Speed Centrifuge—Angled table top unit spins up to 8 tubes with precision results.

USA E8 Portable Centrifuges—Angled 8-place centrifuges include a car power cord and a car seat for easy operation in the field.

Universal Centrifuge—Designed for both laboratories and doctors' offices, the centrifuge features zero-rpm locking lid for safety and digital programming of time and speed ranging from 800 to 3400 rpm. Provides 8-place fixed-angle rotor and 6-place swing-out rotor. Includes 110 to 220V auto-switching power adapter.

Microliter Centrifuges—For use in molecular biology applications such as PCR, DNA and RNA extraction. Available with or without temperature control. No. 38LY74 features a fast-cool function that takes temp. down to +4°C in 10 to 15 min.

Benchtop Centrifuges—General purpose centrifuges are for spinning blood, urine, cell/tissue culture, plates, and bottles. Nos. 38LZ08, 38LZ41, and 38LZ39 have a robust temp. control system and feature a Versa-Rotor, one rotor for multiple applications.

Description	Cap.	Max. Test Tube Size	▶CHOOSE: Color	Max. Speed	Max. RCF	Brand	Mfr. Model	Item No.
MyFUGE™ Mini Centrifuge	32 x 0.5mL, 8 x 1.5mL, 8 x 2mL, 4 x 8 Place PCR Strips	2mL	White with Blue Lid, White with Clear Lid, White with Green Lid, White with Purple Lid, White with Red Lid	6000 rpm	2000 x g	Benchmark Scientific	C1008	**D4103**
USA E8 Variable-Speed Centrifuge	8 x 3mL, 8 x 15mL	15mL	Black	3500 rpm	1534 x g	LW Scientific	E8C-U8AV-1503	**32EZ31**
USA E8 Portable Centrifuge, Fixed Speed Control	8 x 3mL, 8 x 15mL	15mL	Black	3500 rpm	1524 x g	LW Scientific	E8C-U8AF-150P	**45UA64**
USA E8 Portable Centrifuge, Variable Speed Control	8 x 3mL, 8 x 15mL	15mL	Black	3500 rpm	1524 x g	LW Scientific	E8C-U8AV-150P	**45UA65**
USA E8 Portable Centrifuge, Digital Speed Control	8 x 3mL, 8 x 15mL	15mL	Black	3500 rpm	1524 x g	LW Scientific	E8C-U8AD-15TP	**45UA66**
Universal Centrifuge	8 x 3mL, 8 x 15mL	15mL	Beige	3400 rpm	—	LW Scientific	UNC-08AD-15T3	**44C538**
Microliter Centrifuges	24 x 2mL	2mL	White	13,300 rpm	—	Hettich	185MICRO24	**38LY67**
	30 x 2mL	2mL	White	15,000 rpm	—	Hettich	200MICRO30	**38LY74**
	18 x 2mL	2mL	White	13,300 rpm	—	Hettich	185MICROSC	**38LY68**
Benchtop Centrifuges	4 x 50mL	50mL	White	4500 rpm	—	Hettich	320CELLCULTURE4	**38LY98**
	16 x 50mL	50mL	White	5000 rpm	—	Hettich	380CELLCULTURE4-BC	**38LZ13**
	4 x 250mL	290mL	White	5000 rpm	—	Hettich	380BOTTLE	**38LZ08**
	10 x Microplate	SBS Format Plates	White	4000 rpm	—	Hettich	320RPLATE	**38LZ03**
	12 x Microplate	SBS Format Plates	White	5900 rpm	—	Hettich	460PLATEHS-BC	**38LZ41**
	24 x Microplate	SBS Format Plates	White	4600 rpm	—	Hettich	460PLATE-BC	**38LZ39**


No. 6VMY1


No. 8CJF5

Conical Centrifuge Tubes and Racks

Tubes—Polypropylene tubes have white writing area on tube and included polypropylene cap. Glass tubes have phenolic screw caps with PTFE-faced rubber liner.

Racks—Conical Tube Racks are epoxy-coated steel wire, steam-autoclavable and have 30mm square holes. Pop-Up Tube Racks are sturdy polypropylene.

Nominal Cap.	Outside Dia.	L	Brand	Item No.	Pkg. Qty.	
Conical Centrifuge Tubes						
Polypropylene						
15mL	—	120mm	LSS	**6VMY0**	500	*
15mL	—	120mm	LSS	**6VMY1**	500	†
50mL	2.54cm	114mm	LSS	**6VMY2**	500	*
50mL	—	114mm	LSS	**6VMY3**	500	†
50mL	—	114mm	LSS	**6VMY4**	500	
Type I Borosilicate Glass						
15mL	17mm	126mm	Kimble	**8AYV5**	125	
Centrifuge Tube Caps						
Black Cap, For Use With 8AYV5			Kimble	**9UDE8**	500	

No. of Compart.	Color	H	W	L	Brand	Item No.	Pkg. Qty.
Conical Tube Racks							
8 Places	Blue	3⅜"	5⅛"	3³⁄₁₆"	SP Scienceware	**8CJF5**	1
16 Places	Blue	3⅜"	5⅛"	6⅛"		**8CJF6**	1
36 Places	Blue	3½"	8⅛"	9"		**9PW58**	1
Pop-Up Conical Tube Racks							
12, 21 Places	Blue	2⅛"	5⅜"	10"	Heathrow Scientific	**6PTK6**	2
12, 21 Places	Pink	2⅛"	5⅜"	10"		**6PTK7**	2

Bulk wrap sterile. † Racked sterile.


No. 11L818


No. 11L820


Tube Racks, Assorted Colors

Microcentrifuge Tubes and Racks

Tubes—Polypropylene tubes have attached caps and conical bottoms, except No. 11L820 is self-standing. Nos. 6VMX6 to 6VMX9 have frosted marking area and syringe-pierceable caps. Nos. 11L817 to 11L820 have engraved graduations and are autoclavable.

Racks—Nos. 11L554 and 11L556 are reversible. No. 11L560 is for PCR® sampling.
- Polypropylene with molded-in coordinates
- Pkg. of 5

Nominal Cap.	Outside Dia.	L	Item No.	Pkg. Qty.
LSS Microcentrifuge Tubes				
1.5mL	—	40.2mm	**6VMX6**	500
0.5mL	7.8mm	31.75mm	**11L817**	1000
1.5mL	10.75mm	40.25mm	**11L818**	1000
2mL	10.6mm	41.5mm	**11L819**	1000
	10.6mm	43.1mm	**11L820**	1000
1.5mL	—	40.2mm	**6VMX7**	1000
0.5mL	—	31.75mm	**6VMX8**	1000
0.2mL	—	22.2mm	**6VMX9**	1000

Format	No. of Compart.	Color	H	W	L	Item No.
Heathrow Scientific Microtube Racks						
5x16	80	Natural	1"	2¾"	9"	**11L543**
		Blue	1"	2¾"	9"	**11L544**
		Green	1"	2¾"	9"	**11L545**
		Yellow	1"	2¾"	9"	**11L547**
		Red	1"	2¾"	9"	**11L550**
		Assorted	1"	2¾"	9"	**11L549**
8x12	96	Blue	2"	4¾"	9¾"	**11L556**
		Assorted	2"	4¾"	9¾"	**11L554**
		Assorted	1¼"	3½"	5"	**11L560**


No. 38C830


No. 38C832

Caframo

Overhead Mixers

- **Mixer motors, support stands, and mixing paddles, sold separately.**

Digital speed display with speed and torque abilities for a wide range of volumes and viscosities. Compact units are ideal for fume hoods or enclosed work stations. Mix reactions, samples, dissolutions, and dilutions. No. 38C831 has a countdown timer. Mixes reactions, pharmaceuticals, and suspensions. No. 38C834 mixes emulsions and serves as an alternative to a homogenizer. No. 38C833 mixes creams, lotions, and personal care products. No. 38C832 mixes tars, gravel, polymers, and adhesives.

Special Features	Operating Speed	Mfr. Model	Item No.
Overhead Mixers			
Ultra Compact, Digital	50 to 2500 rpm	BDC250	**38C828**
Ultra Compact, Digital	50 to 2500 rpm	BDC250U1	**38C829**
Compact	40 to 2002 rpm	BDC2002	**38C830**
Reverse Mixing, Counterclockwise Agitation	40 to 2010 rpm	BDC2010	**38C831**
High Speed	40 to 6000 rpm	BDC6015	**38C834**
High Torque	20 to 3000 rpm	BDC3030	**38C833**
High Torque	12 to 1800 rpm	BDC1850	**38C832**

Shaft Dia.	Blade Dia.	Shaft L	Mfr. Model	Item No.
Mixer Accessories, Stainless Steel				
Mixing Impeller, Crossed Blades				
5/16"	2"	16"	A130	**38C841**
Pitched Blade Propellers				
5/16"	2"	—	A531	**38C864**
5/16"	3"	—	A541	**38C866**
Pitched Blade Propeller w/Shaft				
5/16"	2.5"	16"	A166	**38C846**


No. 39J347

PRO PRO Scientific

Homogenizers

- 120V
- For additional generator probes, go to Grainger.com®

No. 12F197 can process tissue or small samples in various tube sizes or small beakers. 144W, high-torque motor has variable-speed adjustment with a slide switch speed control to homogenize samples in seconds.

Description	Speed Range	Volume Range	Includes	Mfr. Model	Item No.
Bio-Gen PRO200 Hand-Held Homogenizer	5000 to 35,000 rpm	0.03mL to 1L	Variable Speed Motor, Tool Kit, Instruction Manual	01-01200	**12F197**
Homogenizing Package, Standard Universal	5000 to 33,000 rpm	0.03mL to 10mL	7mm X 95mm Saw-Tooth Probe, 10mm X 115mm Saw-Tooth Probe	PK-01200UHS	**39J347**
Homogenizing Package, Deluxe Universal	5000 to 35,000 rpm	0.03mL to 50mL	7mm X 95mm Saw-Tooth Probe, 10mm X 115mm Saw-Tooth Probe, Pro200 Stand Assembly	PK-01200UHD	**39J349**
Micro-Homogenizing Package, Standard	5000 to 35,000 rpm	0.03mL to 10mL	5 X 75mm Probe	PK-01200S	**39J326**
Micro-Homogenizing Package, Deluxe	5000 to 35,000 rpm	0.03mL to 10mL	5mm X 75mm Probe, 7mm X 95mm Saw Tooth Probe	PK-01200D	**39J333**
Micro-Homogenizing Package, Premium	5000 to 35,000 rpm	0.03mL to 10mL	5mm X 75mm Probe, 7mm X 95mm Saw-Tooth Probe, Pro200 Stand Assembly	PK-01200P	**39J327**


LP
No. 52TA14


No Tip, Natural
No. 52TA17

eisco

Bunsen Burners

Next Gen® Burners feature an easy-to-carry finger handle, allowing you to carry a hot burner with ease and safety. Expanded base prevents easy tipping, even with hoses connected. Spaced feet so burner can fit comfortably under stand.

Fuel Type	Type	Btu Output	Outside Dia.	Overall H	Mfr. Model	Item No.
Bunsen Burners						
LP	Meker	2000 to 3200	42mm	8½"	CH0098E	**52TA14**
	Micro	2000 to 3200	11mm	3½"	CH0093C	**52TA10**
	Tirrill	2000 to 3200	13mm	6"	CH0095A	**52TA12**
Natural	Basic	800 to 1200	11mm	6"	CH0088D	**52TA07**
	Meker	800 to 1200	42mm	8½"	CH0098F	**52TA15**
	Micro	800 to 1200	11mm	3½"	CH0093E	**52TA11**
	Tirrill	800 to 1200	13mm	6"	CH0095B	**52TA13**
Next Gen® No Tip Bunsen Burners						
LP	Basic	2000 to 3200	11mm	6"	CH0991LP	**52TA16**
	Gas Adjustable	2000 to 3200	11mm	6"	CH0993LP	**52TA20**
	Meker	2000 to 3200	42mm	9"	CH0996LP	**52TA25**
	Micro	2000 to 3200	11mm	3½"	CH0994LP	**52TA21**
	Tirrill	2000 to 3200	13mm	6"	CH0995LP	**52TA23**
Natural	Basic	800 to 1200	11mm	6"	CH0991NG	**52TA17**
	Flame Stabilizer	800 to 1200	11mm	6"	CH0992NG	**52TA19**
	Micro	800 to 1200	11mm	3½"	CH0994NG	**52TA22**

CANNON INSTRUMENT COMPANY

Viscometer


No. 36N171

Portable Viscometer—Compact, easy-to-use SimpleVIS® viscometer offers exceptional temperature control and provides a direct determination of kinematic viscosity.

Viscosity Standards—CANNON certified standards are used for calibration and verification of glass capillary, rotational, falling, ball and cup viscometers. Calibration and verification with certified viscosity standards help to ensure viscometer measurement reliability. All standards are sold in 500mL bottles.

Description	Viscosity Range	Test Temp.	Power Requirements	Mfr. Model	Item No.
Viscometer					
SimpleVIS® Portable Viscometer	5.5 to 700 cSt	40°C and 100°C	100 to 230V, 50/60 Hz, 100W	9725-S10	**36N171**

For Use With	Density @ 25°C	Density @ 40°C	Viscosity Centipoise @ 25°C	Viscosity Centistokes @ 40°C	Mfr. Model	Item No.
Viscosity Standards						
Viscometers	0.860	0.850	29	18	9727-C35.016	**36N189**
	0.873	0.863	104	54	9727-C40.016	**36N190**
	0.879	0.870	202	97	9727-C42.016	**36N191**
	0.837	0.827	340	180	9727-C45.016	**36N192**
	0.844	0.835	1100	520	9727-C50.016	**36N193**
	0.888	0.879	20,000	6700	9727-C60.016	**36N194**
	0.891	0.823	41,000	13000	9727-C62.016	**36N195**
Silicone Oil Reference Viscosity Standards						
Rotational Viscometers	0.9125	0.8984	4.6	—	9727-Z10.016	**36N178**
	0.9336	0.9198	9.4		9727-Z14.016	**36N179**
	0.9695	0.9460	48		9727-Z18.016	**36N180**
	0.9638	0.9504	96		9727-Z22.016	**36N181**
	0.9686	0.9553	480		9727-Z26.016	**36N182**
	0.9695	0.9563	960		9727-Z30.016	**36N183**
	0.9697	0.9564	5000		9727-Z34.016	**36N184**
	0.9701	0.9568	12,000		9727-Z38.016	**36N185**
	0.9704	0.9571	29,000		9727-Z42.016	**36N186**
	0.9705	0.9572	58,000		9727-Z46.016	**36N187**
	0.9706	0.9573	97,000		9727-Z50.016	**36N188**

Scan. Order. Done.
Details on page A1.


Round Beaker Bottle


French Square Bottle


Boston Round Bottle


Media Bottle


Packer Bottle


Reagent Bottle

Qorpak A Division of Berlin Packaging · Kimble A WORLD OF EXPERTISE IN YOUR HANDS · LSS · WHEATON®

Glass Bottles

- Precleaned bottles are cleaned for semivolatile organics and come preassembled with caps attached
- Reagent bottles include ground glass stopper

Cap.	Bottle/ Jar Shape	Mouth	Body Color	Closure Liner Material	Screw Closure Size	Brand	Item No.	Pkg. Qty.
Beaker Bottles								
60mL	Round	Wide	Clear	Pulp/Vinyl	38-400mm	Qorpak	**3TRH5**	48
120mL		Wide	Clear	Pulp/Vinyl	48-400mm	Qorpak	**3TRH8**	24
240mL		Wide	Clear	Pulp/Vinyl	58-400mm	Qorpak	**3TRJ2**	24
Bottles								
1 oz.	Round	Narrow	Clear	Pulp/Vinyl	20-400mm	Kimble	**3UUT8**	48
		Wide	Amber	Polyethylene	28-400mm	Kimble	**8FEJ2**	432
2 oz.		Narrow	Clear	Pulp/Vinyl	20-400mm	Kimble	**3UUV7**	24
		Wide	Amber	Pulp/Vinyl	33-400mm	Kimble	**8FFH4**	216
4 oz.		Narrow	Amber	Unlined	22-400mm	Kimble	**8FDN8**	160
		Narrow	Clear	Pulp/Vinyl	22-400mm	Kimble	**3UUX7**	24
		Wide	Clear	Pulp/Vinyl	48-400mm	Kimble	**3VFH5**	24
8 oz.		Narrow	Clear	Pulp/Vinyl	24-400mm	Kimble	**3UUZ7**	12
		Wide	Amber	PTFE	45-400mm	Kimble	**8FH81**	84
15mL	French Square	Wide	Clear	Unlined	20-400mm	Qorpak	**41U168**	48
16 oz.	Round	Narrow	Clear	Pulp/Vinyl	28-400mm	Kimble	**3UVC7**	12
		Wide	Amber	Polyethylene	53-400mm	Kimble	**8PK32**	60
30mL		Wide	Amber	Pulp/Vinyl	28-400mm	Kimble	**3VEV5**	24
32 oz.		Narrow	Clear	Pulp/Vinyl	33-400mm	Kimble	**3VDP5**	12
60mL	Boston Round	Narrow	Clear	PTFE	20-400mm	LSS	**52JZ96**	24
	French Square	Wide	Clear	Unlined	28-400mm	Qorpak	**41U171**	48
	Round	Wide	Amber	Pulp/Vinyl	33-400mm	Kimble	**3VEX5**	24
120mL	Boston Round	Narrow	Amber	Polyethylene	20-400mm	LSS	**52KA45**	24
		Narrow	Clear	Unlined	22-400mm	Qorpak	**41U160**	24
	Round	Wide	Amber	PTFE	48-400mm	LSS	**52KA06**	24
		Wide	Clear	Foam	38-400mm	LSS	**52JZ63**	24
		Wide	Clear	Pulp/Vinyl	48-400mm	Qorpak	**41U222**	24
		Wide	Clear	Foam	48-400mm	LSS	**52JZ50**	24
125mL		Wide	Amber	Pulp/Vinyl	38-400mm	Kimble	**3VEZ5**	24
		Wide	Amber	Unlined	38-400mm	Wheaton	**8DD93**	24
		Wide	Clear	Unlined	48-400mm	Wheaton	**8DDU5**	24
		Wide	White	Unlined	38-410mm	Wheaton	**8CWA6**	72
240mL		Wide	Clear	Pulp/Vinyl	58-400mm	Qorpak	**41U226**	24
250mL	Boston Round	Narrow	Amber	Pulp/Vinyl	24-400mm	Kimble	**3VDZ5**	12
	Round	Wide	Amber	Pulp/Vinyl	45-400mm	Kimble	**3VFC5**	12
		Wide	Amber	Unlined	45-400mm	Wheaton	**8DD94**	24
		Wide	Clear	Foam	45-400mm	LSS	**52JZ64**	12
480mL		Wide	Clear	Pulp/Vinyl	63-400mm	Qorpak	**41U230**	24
500mL	Boston Round	Narrow	Amber	Pulp/Vinyl	28-400mm	Kimble	**3VEC5**	12
		Narrow	Clear	Polyethylene	28-400mm	LSS	**52KA53**	12
	Round	Wide	Amber	Pulp/Vinyl	53-400mm	Kimble	**3VFE2**	12
		Wide	Amber	Unlined	53-400mm	Wheaton	**8DD95**	12
		Wide	Clear	Unlined	63-400mm	Wheaton	**8XA01**	12
950mL	Boston Round	Narrow	Clear	Polyethylene	20-400mm	LSS	**52KA54**	12
960mL		Narrow	Amber	Pulp/Vinyl	33-400mm	Qorpak	**41W172**	12
		Narrow	Clear	Unlined	33-400mm	Qorpak	**41U167**	12
1000mL	Round	Narrow	Amber	Pulp/Vinyl	33-400mm	Kimble	**3VEE5**	12
		Wide	Amber	Pulp/Vinyl	53-400mm	Kimble	**3VFF8**	12
		Wide	Amber	Unlined	53-400mm	Wheaton	**8DD96**	12
2000mL		Wide	Clear	Unlined	83-400mm	Wheaton	**8DCT1**	6

Cap.	Bottle/ Jar Shape	Mouth	Body Color	Closure Liner Material	Screw Closure Size	Brand	Item No.	Pkg. Qty.
4000mL	Boston Round	Narrow	Amber	Foam	38-400mm	LSS	**52JZ39**	6
	Round	Wide	Clear	Foam	89-400mm	LSS	**52JZ68**	4
Media Bottles								
100mL	Round	Wide	Clear	Unlined	45-400mm	Kimble	**3TRD5**	10
250mL		Wide	Clear	Unlined	38-400mm	Kimble	**3TRD8**	10
		Wide	Clear	Unlined	38-400mm	Wheaton	**9HV87**	12
500mL		Narrow	—	Unlined	—	Kimble	**6HAT7**	1
		Wide	Clear	Unlined	—	Kimble	**3TRE2**	10
		Wide	Clear	Unlined	—	Wheaton	**8CYD2**	12
1000mL		Narrow	—	Unlined	—	Kimble	**6HAT8**	1
		Wide	Clear	Unlined	—	Kimble	**3TRE5**	10
		Wide	Clear	Unlined	—	Wheaton	**9HV88**	12
2000mL		Narrow	—	Unlined	—	Kimble	**6HAT9**	1
		Wide	Clear	Unlined	—	Wheaton	**9PY89**	6
Packer Bottles								
30mL	Round	Wide	Amber	Unlined	28-400mm	Kimble	**3VEW8**	24
60mL		Wide	Amber	Unlined	33-400mm	Kimble	**3VEY8**	24
Precleaned Bottles								
120mL	Boston Round	Narrow	Clear	PTFE	24-400mm	Qorpak	**39H552**	24
240mL		Narrow	Clear	PTFE	24-400mm	Qorpak	**39H565**	24
500mL		Narrow	Clear	PTFE	28-400mm	Qorpak	**39H531**	12
960mL		Narrow	Clear	PTFE	33-400mm	Qorpak	**39H541**	12
Precleaned Packer Bottles								
250mL	Round	Wide	Amber	PTFE	53-400mm	Qorpak	**39H538**	24
		Wide	Amber	PTFE	53-400mm	Qorpak	**39H539**	24
500mL		Wide	Amber	PTFE	53-400mm	Qorpak	**39H559**	12
1000mL		Wide	Amber	PTFE	53-400mm	Qorpak	**39H523**	12
		Wide	Amber	PTFE	53-400mm	Qorpak	**39H524**	12
Reagent Bottles								
30mL	Round	Narrow	Amber	Unlined	—	LSS	**5YHG2**	8
		Wide	Amber	Unlined	—	LSS	**5YHH9**	8
60mL		Narrow	Amber	Unlined	—	LSS	**5YHG3**	8
		Wide	Amber	Unlined	—	LSS	**5YHJ0**	8
125mL		Narrow	Amber	Unlined	—	LSS	**5YHG4**	8
		Narrow	Clear	Unlined	—	LSS	**5YHF5**	8
		Wide	Amber	Unlined	—	LSS	**5YHJ1**	8
500mL		Narrow	Amber	Unlined	—	LSS	**5YHG6**	6
		Narrow	Clear	Unlined	—	LSS	**5YHF7**	6
1000mL		Narrow	Amber	Unlined	—	LSS	**5YHG7**	6
Round Beaker with Cap								
30mL	Round	Wide	Clear	Pulp/Vinyl	33-400mm	Qorpak	**3TRH2**	48
Safety Coated Bottles								
480mL	Round	Wide	Clear	F217/PTFE	70-400mm	Qorpak	**3UEK7**	24
500mL		Wide	Amber	Foam	53-400mm	LSS	**52JZ81**	12
950mL	Boston Round	Narrow	Clear	Foam	20-400mm	LSS	**52JZ76**	12
		Wide	Amber	Foam	53-400mm	LSS	**52JZ82**	12
960mL	Round	Wide	Clear	Pulp/Vinyl	70-400mm	Qorpak	**41W199**	12
1000mL		Wide	Clear	PTFE	53-400mm	LSS	**52KA42**	12
		Wide	Clear	Foam	53-400mm	LSS	**52JZ86**	12
1920mL		Wide	Clear	Pulp/Vinyl	83-400mm	Qorpak	**41W228**	6

WHEATON®

BOD Bottles

- 300mL capacity
- Clear borosilicate glass, USP Type I

Designed for incubating samples of industrial wastes, polluted waters, sewage, and sewage effluents for wastewater biochemical oxygen demand testing.



No. 48H599

Description	Stopper Type	Item No.	Pkg. Qty.
Narrow Mouth			
Un-Numbered, No Barcoding	Robotic	**48H597**	24
Un-Numbered, No Barcoding	Pennyhead	**48H598**	24
Number Sequence: 01-24	Robotic	**48H599**	24
Number Sequence: 01-24	Pennyhead	**48H601**	24
Number Sequence: 25-48	Robotic	**48H602**	24
Number Sequence: 25-48	Pennyhead	**48H603**	24
Number Sequence: 49-72	Robotic	**48H604**	24
Number Sequence: 49-72	Pennyhead	**48H605**	24
Number Sequence: 73-108	Robotic	**48H626**	36
Number Sequence: 73-108	Pennyhead	**48H627**	36
Accessories			
Replacement Glass Stopper	Robotic	**48H631**	12
Replacement Glass Stopper	Pennyhead	**48H632**	12
BOD Bottle Rack	—	**8AVE2**	1


Phenolic
No. 41U468


Polypropylene
No. 41U555

Qorpak A Division of Berlin Packaging · Kimble A WORLD OF EXPERTISE IN YOUR HANDS

Caps for Glass Bottles and Jars

- Phenolic caps are black
- Polypropylene are white

Closure Liner Material	Screw Closure Size	Brand	Item No.	Pkg. Qty.
Phenolic Closure Material				
LDPE	20-400mm	Qorpak	**41U468**	5500
LDPE	22-400mm	Qorpak	**41U472**	5000
Polyethylene	38-400mm	Qorpak	**462C23**	1700
Polyethylene	48-400mm	Qorpak	**21RT78**	1248
Pulp/Vinyl	22-400mm	Kimble	**8RZR9**	144
Pulp/Vinyl	28-400mm	Kimble	**9R418**	144
Pulp/Vinyl	33-400mm	Kimble	**8FRF5**	144
Pulp/Vinyl	38-400mm	Kimble	**9UFH5**	144
Pulp/Vinyl	43-400mm	Kimble	**9LP99**	144
Pulp/Vinyl	48-400mm	Kimble	**8WA38**	144
Rubber	22-400mm	Kimble	**8FRE9**	144
Rubber	24-400mm	Kimble	**8PPZ6**	144
Rubber	33-400mm	Kimble	**8PPY8**	144
Rubber	48-400mm	Kimble	**8FDR1**	144
Polypropylene Closure Material				
F217	58-400mm	Qorpak	**41U518**	1650
F217	63-400mm	Qorpak	**41U566**	288
F217	70-400mm	Qorpak	**41U520**	760
F217	89-400mm	Qorpak	**41U555**	144
Unlined	48-400mm	Qorpak	**21RN74**	1700
Unlined	58-400mm	Qorpak	**21RN44**	1100

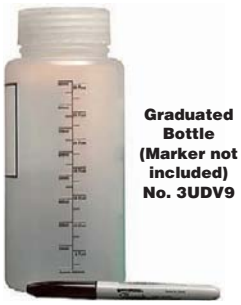
Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)



Narrow-Mouth Bottle
No. 6FAH9



Wide-Mouth Bottle
No. 6FAJ5



Graduated Bottle (Marker not included)
No. 3UDV9



Square Bottle
No. 3UEH6

LSS®

Dynalon Labware
quality . value . service

Plastic Bottles

- Round shape except Nos. 3UEH3 and 3UEH6

Screw-on caps make a leak-resistant seal to keep liquid samples safely contained.

Note: Detailed information on chemical resistance, plasticware compatibility, and labware cleaning and disposal is available on Grainger.com®.

NARROW- AND WIDE-MOUTH

Amber HDPE bottles protect light-sensitive samples.

Graduated bottles have printed mL and oz. graduations and a write-on label area.

ENVIRONMENTAL SAMPLING

Leakproof bottles resist breakage for safe sampling, transport, and storage.

OCTAGONAL-SQUARE BOTTLES

Optically clear, easy-grip transport bottles take up less shelf space than round bottles. Graduations are molded in.

Body Material	Cap.	Dia.	Body Color	Brand	Item No.	Pkg. Qty.
Narrow Mouth Bottles						
HDPE	30mL	34mm	Clear	LSS	6FAH9	12
	60mL	37mm	Clear	LSS	6FAJ0	12
	125mL	50mm	Clear	LSS	6FAJ1	12
	125mL	50mm	Clear	LSS	6FAP9	12
	250mL	61mm	Natural	LSS	6FAJ2	12
	250mL	61mm	Clear	LSS	6FAR0	12
	500mL	73mm	Clear	LSS	6FAJ3	12
	500mL	73mm	Clear	LSS	6FAR1	12
	1000mL	91mm	Clear	LSS	6FAJ4	6
	1000mL	91mm	Clear	LSS	6FAR2	6
Polypropylene	125mL	1.95"	Clear	Dynalon	3UDU9 *	12
	250mL	61mm	Clear	LSS	6FAL3	12
Wide Mouth Bottles						
Polypropylene	500mL	2.953"	Clear	Dynalon	3UDV6 *	12
HDPE	30mL	34mm	Clear	LSS	6FAJ5	12
	30mL	34mm	Amber	LSS	6FAN4	12
	60mL	39mm	Clear	LSS	6FAJ6	12
	60mL	39mm	Amber	LSS	6FAN5	12
	125mL	50mm	Clear	LSS	6FAJ7	12
	125mL	50mm	Amber	LSS	6FAN6	12
	250mL	61mm	Clear	LSS	6FAJ8	12
	250mL	61mm	Amber	LSS	6FAN7	12
	500mL	75mm	Clear	Dynalon	3TTA8	12
	500mL	73mm	Clear	LSS	6FAJ9	12
	500mL	73mm	Amber	LSS	6FAN8	12
	1000mL	90mm	Clear	Dynalon	3TTC1	6
	1000mL	91mm	Clear	LSS	6FAL0	6
	1000mL	91mm	Amber	LSS	6FAN9	6
	4000mL	153mm	Clear	LSS	6FAP6	1
Polypropylene	60mL	39mm	Clear	LSS	6FAL4	12
	60mL	1.565"	Clear	Dynalon	3UDU6 *	12
	125mL	50mm	Clear	LSS	6FAL5	12
	250mL	61mm	Clear	LSS	6FAL6	12
	250mL	2.353"	Clear	Dynalon	3UDV3 *	12
	500mL	73mm	Clear	LSS	6FAL7	12
	1000mL	91mm	Clear	LSS	6FAL8	6
	1000mL	3.543"	Clear	Dynalon	3UDV9 *	6
	2000mL	120mm	Clear	LSS	6FAP7	1
	4000mL	153mm	Clear	LSS	6FAP8	1
Environmental Sampling Bottle - Narrow Mouth						
HDPE	125mL	50mm	Clear	LSS	6FAH1	500
	250mL	61mm	Clear	LSS	6FAH2	250
	1000mL	92mm	Clear	LSS	6FAH4	50
Environmental Sampling Bottle - Wide Mouth						
HDPE	125mL	51mm	Clear	LSS	6FAH5	500
	250mL	61mm	Clear	LSS	6FAH6	250
	500mL	73mm	Clear	LSS	6FAH7	125
	1000mL	91mm	Clear	LSS	6FAH8	50
Sampling Bottle - Narrow Mouth						
HDPE	500mL	73mm	Clear	LSS	6FAH3	125
Octagonal-Square Bottles						
Polycarbonate	125mL		Clear	Dynalon	3UEH3	6
	1000mL		Clear	Dynalon	3UEH6	6

Graduated bottle.



Plastic Jars

Dynalon Labware
quality . value . service

Easy-to-fill jars collect and store liquid and solid specimens. Include lids.

Body Material	Cap.	Item No.	Pkg. Qty.
Round			
HDPE	60mL	9A681	10
	125mL	8MWC8	10
	250mL	9V308	10
	500mL	9JUP2	10
	1000mL	8RAR2	10
	1500mL	8TKF5	10
	2000mL	9CLW8	10

Body Material	Cap.	Item No.	Pkg. Qty.
Polypropylene	30mL	3UCN6	12
	60mL	3UCN9	12
	125mL	3UCP3	12
Straight Side Round			
Polypropylene	250mL	9DHY6	10
	500mL	8ZEP6	10
	1000mL	9PNL5	5
	1183mL	9HZN6	5



No. 39H551



No. 3UEK4

Qorpak
A Division of Berlin Packaging

Glass Jars

Straight-sided, wide-mouth design for efficient addition and removal of contents. Amber jars protect contents from UV rays and are ideal for light-sensitive materials.

Cap.	Body Color	Closure Liner Material	Screw Closure Size	Item No.	Pkg. Qty.
Precleaned Jars					
120mL	Clear	PTFE	58-400mm	39H554	24
	Amber	PTFE	58-400mm	39H551	24
240mL	Clear	PTFE	70-400mm	39H566	24
	Amber	PTFE	70-400mm	39H564	24
480mL	Clear	PTFE	89-400mm	39H533	12
960mL	Clear	PTFE	89-400mm	39H543	12
Safety Coated Jars					
240mL	Clear	Pulp/Vinyl	70-400mm	41W198	24
	Clear	F217/PTFE	70-400mm	3UEK4	24

Bottle Top Dispensers

- Dispensers provide superior chemical resistance

Wheaton—Designed for handling liquids safely and provides reliable measuring. Feature in-lab calibration and instant volume setting. Attaches directly to bottles.

WHEATON® DLAB

Dragonlab—Dispense common laboratory solvents and reagents with high accuracy and repeatability. Attach directly to bottles with standard GL45 thread.

Volume	Graduations	Accuracy	Includes	Brand	Item No.
0.1 to 2mL	0.1mL	<0.35%	Reservoir 250mL	Wheaton	23NC07
0.25 to 2mL	0.05mL	Less Than ±1.8%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	23Y322
0.5 to 5mL	0.1mL	±0.025mL	Filling Tube and Adapter	Dlab	46Z312
1 to 5mL	0.1mL	Less Than ±1.3%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	23Y323
1 to 10mL	0.2mL	±0.05mL	Filling Tube and Adapter	Dlab	46Z311
1 to 10mL	0.2mL	<0.35%	Reservoir 1000mL	Wheaton	23NC09
1 to 10mL	0.25mL	Less Than ±1.1%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	23Y324
2.5 to 25mL	0.5mL	±0.125mL	Filling Tube and Adapter	Dlab	46Z314
2.5 to 25mL	0.5mL	Less Than ±1.1%	3 Bottle Top Adapters 32,38 and 40mm, 350mm Feed Tube, Alternative Screw Type Volume Setting Button, QC Certificate and Operating Instructions	Wheaton	23NC17
5 to 50mL	1mL	±0.25mL	Filling Tube and Adapter	Dlab	46Z313
5 to 50mL	1.0mL	Less Than ±1.1%	3 Bottle Top Adapters 32,38 and 40mm, 350mm	Wheaton	23NC18
10 to 100mL	1.0mL	Less Than ±1.1%	Feed Tube, Alternative Screw Type Volume Setting Button, QC Certificate and Operating Instructions	Wheaton	23NC19



No. 23Y322

Scan. Order. Done.
Details on page A1.



Narrow-Mouth Nonvented No. 24J919



No Imprinting Wide-Mouth No. 6FAU7



Vented bottles avoid pressure buildup and solvent drips

Wide-Mouth, Vented No. 24J904

LSS® Dynalon Labware quality . value . service

Wash Bottles

- LDPE bottles with polypropylene caps

Integrated spout squeeze bottles provide quick, handy cleanout of laboratory glassware and plasticware.

Printed bottles save time and help eliminate cross-contamination.

Item Nos. beginning with "24J" are printed with chemical name and formula, Chemical Abstract Service number, and NFPA warning diamond for easy identification and safety compliance.

Note: Labware imprinting indicates imprinting on bottle, cap color, or write-on label.

Cap.	Spout Style	Labware Imprinting	Closure Color	Brand	Item No.	Pkg. Qty.
Narrow Mouth						
Vented						
500mL	Standard Spout	Acetone	Red	LSS	**24J880**	6
500mL		Acetone, Distilled Water, Ethanol, Isopropanol, Methanol	Assorted	LSS	**24J898**	5
500mL		Bleach, Sodium Hypochlorite	Blue	LSS	**24J896**	6
500mL		Distilled Water	Natural	LSS	**24J894**	6
500mL		Ethanol	White	LSS	**24J883**	6
500mL		Isopropanol	Yellow	LSS	**24J889**	6
500mL		Methanol	Green	LSS	**24J886**	6
1000mL		Bleach, Sodium Hypochlorite	Blue	LSS	**24J897**	4
1000mL		Distilled Water	Natural	LSS	**24J893**	4
1000mL		Ethanol	White	LSS	**24J882**	4
1000mL		Isopropanol	Yellow	LSS	**24J888**	4
1000mL		Methanol	Green	LSS	**24J885**	4
1000mL		No Imprinting	Natural	LSS	**24J915**	4
Nonvented						
125mL	Integrated Spout	No Imprinting	Clear	LSS	**6FAV7**	1
125mL	Standard Spout	No Imprinting		LSS	**6FAV3**	1
250mL		Write-On	White	LSS	**24J918**	6
250mL		No Imprinting	Clear	LSS	**6FAV4**	1
500mL		No Imprinting	Natural	LSS	**24J899**	6
500mL		Isopropanol	Blue	Dynalon	**3LDX4**	5
500mL		No Imprinting	Clear	LSS	**6FAV5**	1
500mL	Integrated Spout	No Imprinting		Dynalon	**3LET3**	4
500mL	Standard Spout	Acetone	Red	Dynalon	**3LDX2**	5
500mL		Distilled Water	White	Dynalon	**3LDX1**	5
500mL		No Imprinting		Dynalon	**8ACL7**	5
500mL		Write-On		LSS	**24J919**	6
1000mL		No Imprinting	Clear	LSS	**6FAV6**	1
1000mL		No Imprinting	Red	Dynalon	**9GE47**	5
1000mL		Write-On	White	LSS	**24J917**	4
Wide Mouth						
Vented						
250mL	Integrated Spout	Acetone	Red	LSS	**24J879**	4
250mL	Standard Spout	Acetone, Ethanol, Isopropanol, Methanol, Write-On	Assorted	Dynalon	**45G313**	5
500mL	Integrated Spout	Distilled Water	Natural	LSS	**24J892**	4
250mL	Standard Spout	Methanol	Green	Dynalon	**45G312**	5
250mL		Acetone	Red	Dynalon	**45G309**	5
250mL		Ethanol	Orange	Dynalon	**45G310**	5
250mL		Isopropanol	Blue	Dynalon	**45G311**	5
250mL		Write-On	Red	Dynalon	**3LDV1**	5
500mL		Acetone, Ethanol, Isopropanol, Methanol, Write-On	Assorted	Dynalon	**45G318**	5
500mL		Write-On	Red	Dynalon	**3LDV2** *†	5
500mL		Acetone		LSS	**24J877**	4
500mL		Bleach, Sodium Hypochlorite	Blue	LSS	**24J895**	4
500mL	Integrated Spout	Distilled Water	Natural	LSS	**24J890**	4
500mL		Ethanol	White	LSS	**24J881**	4
500mL		Isopropanol	Yellow	LSS	**24J887**	4
500mL		Methanol	Green	LSS	**24J884**	4
500mL	Standard Spout	Acetone	Red	LSS	**24J903**	6
500mL		Acetone		Dynalon	**45G314**	5
500mL		Ethanol	White	LSS	**24J905**	6
500mL		Ethanol	Orange	Dynalon	**45G315**	5
500mL		HMIG	Blue	LSS	**24J902** ‡	6
500mL		Isopropanol	Yellow	LSS	**24J904**	6
500mL		Isopropanol	Blue	Dynalon	**45G316**	5
500mL		Methanol	Green	LSS	**24J901**	6
500mL		Methanol		Dynalon	**45G317**	5
750mL	Integrated Spout	Acetone	Red	LSS	**24J878**	2
750mL		Distilled Water	Natural	LSS	**24J891**	2
Nonvented						
250mL	Integrated Spout	No Imprinting	Clear	LSS	**6FAV8**	1
250mL	Standard Spout	No Imprinting		LSS	**6FAV0**	1
250mL		No Imprinting	Green	LSS	**6FAU1**	1
250mL		No Imprinting	Red	LSS	**6FAR8**	1
250mL		No Imprinting	Yellow	LSS	**6FAU4**	1
250mL		No Imprinting	Blue	LSS	**6FAU7**	1
500mL		No Imprinting	Clear	LSS	**6FAV1**	1
500mL		No Imprinting	Yellow	LSS	**6FAU5**	1
500mL		No Imprinting	Blue	Dynalon	**3YJX1**	5
500mL		No Imprinting	Green	Dynalon	**3UUN9**	5
500mL		No Imprinting	Red	Dynalon	**3UUP3**	5
500mL		No Imprinting	White	Dynalon	**8NDU7**	5
500mL		No Imprinting	Blue	LSS	**6FAU8**	1
500mL		Bleach, Sodium Hypochlorite		LSS	**24J908**	6
500mL		Distilled Water	Natural	LSS	**24J909**	6
500mL		Ethyl Acetate	Green	LSS	**24J913**	6
500mL		Machine Oil	Natural	LSS	**24J914**	6
500mL		Methyl Ethyl Ketone (MEK)	Green	LSS	**24J907**	6
500mL		No Imprinting		LSS	**6FAU2**	1
500mL		No Imprinting	Red	LSS	**6FAR9**	1
500mL		Saline Solution	Natural	LSS	**24J912**	6
500mL		Soap	Green	LSS	**24J910**	6
500mL		Toluene	Red	LSS	**24J911**	6
500mL		Water	Natural	LSS	**24J906**	6
500mL		Write-On	White	LSS	**24J920**	6
1000mL		No Imprinting	Green	LSS	**6FAU3**	1
1000mL		No Imprinting	Clear	LSS	**6FAV2**	1
1000mL		No Imprinting	Blue	Dynalon	**3UUP6**	5
1000mL		No Imprinting	Green	Dynalon	**3UUP9**	5
1000mL		No Imprinting	Red	Dynalon	**3UUR3**	5
1000mL		No Imprinting	White	Dynalon	**3UUR6**	5
1000mL		No Imprinting	Yellow	LSS	**6FAU6**	1
1000mL		No Imprinting	Blue	LSS	**6FAU9**	1
1000mL		No Imprinting	Red	LSS	**6FAU0**	1
1000mL		Write-On	White	LSS	**24J916**	4

** Write-on, wipe-off labeling areas and included COSHH hazard symbols. † Drip-lock vapor venting. ‡ HMIG (Hazardous Materials Identification Guide) printing system identifies chemicals by a numerical hazard rating and designates required personal protective equipment.*



No. 32EZ14

Solvent Dispensing Bottles MENDA

- HDPE bottles
- Stainless steel pumps
- Replacement bottles available on Grainger.com®

Automatic dispensers operate one-handed without removing the lid. Imprinted units are labeled in nonsmearing ink with one of the three most commonly used chemical names.

One-Touch and Take-Along dispensers allow cotton or pad application, with excess fluid seeping back into the bottle.

Pure-Touch and Pure-Take dispensers reduce backflow risk with raised purity protector to keep fluid supply contaminant-free. Pure-Touch units reduce vapor escape; for use with noncotton brushes.

ESD (electrostatic dissipation) bottles are made of durAstatic™ HDPE and embossed with the ESD protective symbol for fast identification.

Description	Cap.	Body Color	Item No.
One-Touch Pumps			
Disp. Acetone ESD Bottle	236.6mL	Blue	**39H808**
Disp. Bottle	118.3mL	Clear	**9NMT6**
	236.6mL	Clear	**8APV1**
Disp. Bottle, Take-Along		Clear	**8ANJ4** *
Disp. ESD Bottle	118.3mL	Blue	**39H802**
	236.6mL	Blue	**39H804**
Grad. Acetone Disp. ESD Bottle		Blue	**32EZ09**
		Orange	**39H793**
Grad. Disp. Bottle		Clear	**8PE95**
Grad. Disp. Bottle, Take-Along		Clear	**8ANJ3** *
Grad. Disp. ESD Bottle	177.4mL	Blue	**39H803**
		Blue	**39H805**
		Green	**39H795**
Grad. Disp. ESD Bottle, Pure-Take		Blue	**39H806**
Grad. IPA Disp. ESD Bottle		Blue	**32EZ14**
		Orange	**39H794**
		Yellow	**39H801**
Pure-Touch Pumps			
Disp. Bottle	118.3mL	Clear	**8AMY7**
	236.6mL	Clear	**8AMY9** *
Grad. Disp. Bottle	177.4mL	Clear	**8AMY8**

** Locking top.*



No. 28CP27



No. 5YHL3

LSS® Dynalon Labware quality . value . service

Dropper Bottles

Glass—Narrow-mouth bottles have polypropylene stopper.

Plastic—Low-density polyethylene bottles have dropper cap.



No. 6FAR3



No. 39H776

Cap.	Dia.	H	Body Color	Brand	Item No.	Pkg. Qty.
Glass						
30mL	40mm	76mm	Amber	LSS	**5YHL1**	12
	40mm	124mm	Clear	LSS	**28CP27**	12
60mL	45mm	132mm	Amber	LSS	**28CP29**	12
	45mm	132mm	Clear	LSS	**28CP28**	12
120mL	54mm	153mm	Amber	LSS	**28CP30**	12
125mL	57mm	110mm	Amber	LSS	**5YHL3**	8
	57mm	110mm	Clear	LSS	**5YHL0**	8
Plastic						
15mL	25mm	60mm	Clear	LSS	**6FAR3**	12
30mL	36.5mm	62mm	Clear	LSS	**6FAR4**	12
50mL	1½"	132mm	Clear	Dynalon	**8MTX0**	10
60mL	36mm	91mm	Clear	Dynalon	**33N195**	12
	40.5mm	85mm	Clear	LSS	**6FAR5**	12
100mL	1⅞"	150mm	Clear	Dynalon	**8MTX1**	10
125mL	47mm	115mm	Clear	Dynalon	**39H776**	12
	51.5mm	101mm	Clear	LSS	**6FAR6**	12
250mL	61.5mm	133mm	Clear	LSS	**6FAR7**	6

Find even MORE on Grainger.com®


No. 3VEY3


No. 6FAE5


No. 3UDJ6

Dynalon Labware quality . value . service ★ LSS®

Bel-Art • H-B Instrument SP SCIENCEWARE™ globe SCIENTIFIC INC.

Plastic Beakers

All beakers have a body material of polyproplene except Nos. 3VEV9 and 3VEW6 are PTFE. Low Form Beakers with Handle have a precise pouring spout and are autoclavable. Disposable beakers are nonsterile and autoclavable.

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Beakers with Handle				
100mL	2mL	Dynalon	**3VDU6**	1
250mL	5mL	Dynalon	**3VDU9**	1
500mL	25mL	Dynalon	**3VEX9**	1
	10mL	Dynalon	**3VDV3**	1
1000mL	50mL	Dynalon	**3VEY3**	1
	10mL	Dynalon	**3VDV6**	1
	50mL	LSS	**6FAF7**	1
	250mL	LSS	**6FAF9**	1
2000mL	50mL	Dynalon	**3VEY6**	1
	100mL	LSS	**6FAF8**	1
	100mL	LSS	**6FAH0**	1
3000mL	100mL	Dynalon	**3VEY9**	1
5000mL	250mL	Dynalon	**3VEZ3**	1
Beakers with Handle, Low Form				
100mL	10mL	LSS	**23X901**	6
	10mL	LSS	**23X905**	6
250mL	25mL	LSS	**23X902**	6
600mL	50mL	LSS	**23X903**	6
	50mL	LSS	**23X907**	6
5000mL	500mL	LSS	**23X904**	2
	500mL	LSS	**23X908**	2
Beakers, Low Form				
50mL	5mL	LSS	**6FAE3**	12
	2mL	Dynalon	**8TP08**	20
100mL	10mL	LSS	**6FAF0**	12
	10mL	LSS	**6FAE4**	12
	5mL	Dynalon	**8ADJ1**	12
250mL	25mL	LSS	**6FAF1**	6
	25mL	LSS	**6FAE5**	6
	10mL	Dynalon	**8UKP1**	8
500mL	10mL	Dynalon	**8ADJ2**	6
600mL	50mL	LSS	**6FAE6**	4
1000mL	50mL	LSS	**6FAF2**	3
	50mL	LSS	**6FAE7**	3
	20mL	Dynalon	**8VL47**	4
2000mL	100mL	LSS	**6FAF3**	3
	100mL	LSS	**6FAE8**	1
5000mL	250mL	LSS	**6FAE9**	1
	250mL	LSS	**6FAF4**	1
PTFE Beakers				
600mL	Not Graduated	Dynalon	**3VEV9**	1
2000mL	Not Graduated	Dynalon	**3VEW6**	1
Giant Beaker				
10L	200mL	SP Scienceware	**8AF78**	1
Graduated Pitchers				
5L	100mL	SP Scienceware	**8RZE4**	1
10L	200mL	SP Scienceware	**9ATJ7**	1
Square Ratio Beakers				
100mL	10mL	Dynalon	**3VEZ9**	10
500mL	50mL	Dynalon	**3VFA6**	10
1000mL	100mL	Dynalon	**3VFC3**	5
Disposable Beakers				
50mL	5mL	LSS	**3UDH9**	100
100mL	5mL	LSS	**3UDJ3**	100
250mL	10mL	LSS	**3UDJ6**	50
400mL	25mL	LSS	**3UDJ9**	50
600mL	25mL	LSS	**3UDK3**	25
	50mL	Globe Scientific	**46AX40**	5
1000mL	100mL	Globe Scientific	**46AX41**	5
2000mL	200mL	Globe Scientific	**46AX42**	1

globe SCIENTIFIC INC. Tri-Corner, Disposable

UNITED SCIENTIFIC SUPPLIES, INC.

Triangular Beakers

Offer superior chemical resistance. Feature pour spout for easy pouring and handling.



Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Tri-Corner, Disposable				
50 mL	5 mL	Globe Scientific	**46AX38**	100
100 mL	10 mL	Globe Scientific	**46AX37**	100
250 mL	10 mL	Globe Scientific	**46AX35**	100
400 mL	20 mL	Globe Scientific	**46AX36**	100
800 mL	50 mL	Globe Scientific	**46AX39**	100
1,000 mL	50 mL	Globe Scientific	**46AX34**	100

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Tri-Corner, Reusable				
50 mL	10 mL	United	**23YW29**	100
100 mL	10 mL	United	**23YW30**	100
250 mL	20 mL	United	**23YW31**	100
400 mL	40 mL	United	**23YW32**	100
800 mL	50 mL	United	**23YW33**	100
1,000 mL	50 mL	United	**23YW34**	100


No. 38VK06


No. 5YHA4

Kimble ★ LSS®

Glass Beakers

- Borosilicate glass

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Beakers, Low Form				
50mL	10mL	Kimble	**38VK08**	48
100mL		Kimble	**38VK04**	48
150mL	20mL	Kimble	**38VK05**	48
250mL	25mL	Kimble	**38VK06**	48
400mL		Kimble	**38VK07**	48
400mL		Kimble	**38VK10**	48
600mL	50mL	Kimble	**38VJ93**	36
600mL		Kimble	**38VJ94**	36
1000mL		Kimble	**38VJ72**	24
1000mL		Kimble	**38VJ73**	24
1500mL	100mL	Kimble	**38VJ63**	16
2000mL		Kimble	**38VK31**	8
2000mL		Kimble	**38VK32**	8
4000mL	250mL	Kimble	**38VJ97**	4
4000mL		Kimble	**38VK22**	6
Beakers with Pouring Spout, Low Form				
5mL	1mL	LSS	**5YGY6**	12
10mL	2mL	LSS	**5YGY7**	12
25mL	5mL	LSS	**5YGY8**	12
50mL	10mL	LSS	**5YGY9**	12
100mL	20mL	LSS	**5YGZ0**	12
150mL	25mL	LSS	**5YGZ1**	12
250mL	50mL	LSS	**5YGZ2**	12
400mL		LSS	**5YGZ3**	6
500mL	100mL	LSS	**5YGZ4**	6
600mL		LSS	**5YGZ5**	6
800mL		LSS	**5YGZ6**	6
1000mL	200mL	LSS	**5YGZ7**	6
2000mL		LSS	**5YGZ8**	4
3000mL	500mL	LSS	**5YGZ9**	4
5000mL	1000mL	LSS	**5YHA0**	1
Beakers with Pouring Spout, Tall Form				
50mL	10mL	LSS	**5YHA1**	12
100mL	20mL	LSS	**5YHA2**	12
150mL	25mL	LSS	**5YHA3**	12
250mL	50mL	LSS	**5YHA4**	12
400mL		LSS	**5YHA5**	12
600mL	100mL	LSS	**5YHA6**	6
800mL		LSS	**5YHA7**	6
1000mL		LSS	**5YHA8**	6
2000mL	200mL	LSS	**5YHA9**	4
Heavy Duty Beakers with Pouring Spout, Low Form				
250mL	25mL	Kimble	**26CV54** *	12
250mL		Kimble	**38VK09**	48
Lab Mugs, Tall Form with Handle				
500mL	50mL	Kimble	**8AZX0**	6

** Matte finish marking area and graduated blue scale.*


No. 3UUR5


No. 9KWC6

★ LSS®

Dynalon Labware quality . value . service Kimble

Graduated Cylinders

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Polymethylpentene (PMP)				
10mL	0.2mL	LSS	**9MF02**	1
25mL	0.5mL	LSS	**9EX72**	1
50mL	1mL	LSS	**9GE56**	1
100mL	1mL	LSS	**9L456**	1
250mL	2mL	LSS	**8ADT5**	1
500mL	5mL	LSS	**8ADU7**	1
1000mL	10mL	LSS	**8NEA0**	1
2000mL	20mL	LSS	**9RTD2**	1
Polypropylene				
10mL	0.2mL	LSS	**9WJ86**	1
50mL	1mL	LSS	**4YMU2**	1
100mL	1mL	LSS	**9L458**	1
100mL	2mL	Dynalon	**3UUR5**	5
250mL	5mL	Dynalon	**3UUR8**	1
500mL	10mL	Dynalon	**3UUT2**	1
1000mL	10mL	LSS	**9NNX3**	1
1000mL	20mL	Dynalon	**3UUT5**	1
2000mL	20mL	LSS	**8ADU8**	1
4000mL	50mL	Dynalon	**8XUL0**	1
Polypropylene, with Spout				
50mL	1mL	LSS	**5PTJ4**	12
100mL	1mL	LSS	**5PTJ5**	12
250mL	5mL	LSS	**5PTJ6**	12
500mL	5mL	LSS	**5PTJ7**	12
1000mL	10mL	LSS	**5PTJ8**	12
Type 1 Borosilicate Glass, with Bumper, Class A				
100mL	1mL	Kimble	**9KWC6**	1
250mL	2mL	Kimble	**9GC91**	1
500mL	5mL	Kimble	**8NAV0**	1
1000mL	10mL	Kimble	**8NAV1**	1
Type 1 Glass, with Spout				
10mL	0.2mL	LSS	**5YHX8**	12
25mL	0.5mL	LSS	**5YHX9**	12
50mL	1mL	LSS	**5YHY0**	12
100mL	1mL	LSS	**5YHY1**	12
250mL	2mL	LSS	**5YHY2**	6
500mL	5mL	LSS	**5YHY3**	2
1000mL	10mL	LSS	**5YHY4**	2
2000mL	20mL	LSS	**5YHY5**	1
Type 1 Glass, with Stopper				
25mL	0.5mL	LSS	**5YHY7**	12
50mL	1mL	LSS	**5YHY8**	12
100mL	1mL	LSS	**5YHY9**	12
250mL	2mL	LSS	**5YHZ0**	6

Scan. Order. Done.
Details on page A1.

LSS Kimble

Flasks

Designed for safely making solutions in laboratory environments; allowing liquid solutions to be collected and contained for samples from various reactions due to heating, cooling, dissolving, and boiling.


No. 5YHL5


No. 8AGC7

Cap.	Body Material	Graduation Subdivisions	Stopper Size	Brand	Item No.	Pkg. Qty.
Conical Flasks with Ground Mouth						
10mL	Glass	5mL	10/19	LSS	5YHN6	12
150mL	Glass	25mL	19/26	LSS	5YHP8	12
	Glass	25mL	24/29	LSS	5YHP9	12
250mL	Glass	50mL	19/26	LSS	5YHR1	12
	Glass	50mL	24/29	LSS	5YHR2	12
Erlenmeyer Flasks, Narrow Neck						
50mL	Glass	10mL	—	LSS	5YHL5	12
100mL	Glass	20mL	—	LSS	5YHL6	12
250mL	Glass	50mL	—	LSS	5YHL7	12
500mL	Glass	100mL	—	LSS	5YHL8	12
1000mL	Glass	100mL	—	LSS	5YHL9	6
2000mL	Glass	500mL	—	LSS	5YHN0	6
4000mL	Borosilicate Glass	250mL	10	Kimble	9PP30	1
6000mL	Borosilicate Glass	500mL	10	Kimble	8AFR0	1
Erlenmeyer Flasks, Wide Neck						
100mL	Glass	20mL	—	LSS	5YHN2	12
125mL	Borosilicate Glass	25mL	6	Kimble	38VK13	48
250mL	Borosilicate Glass	25mL	8	Kimble	38VK14	48
	Glass	50mL	—	LSS	5YHN3	12
500mL	Borosilicate Glass	50mL	10	Kimble	38VJ96	36
1000mL	Borosilicate Glass	50mL	11	Kimble	38VJ75	24
2000mL	Borosilicate Glass	100mL	13	Kimble	38VK35	8
Volumetric Flasks, Class A						
10mL	Borosilicate Glass	—	9	Kimble	8AGC7	12
	Glass	—	10/11	LSS	5YHZ4	12
25mL	Glass	—	10/13	LSS	5YHZ5	12
50mL	Glass	—	10/13	LSS	5YHZ6	12
100mL	Glass	—	12/14	LSS	5YHZ7	8
	Borosilicate Glass	—	18	Kimble	9MC75	12
200mL	Glass	—	14/15	LSS	5YHZ8	6
250mL	Glass	—	14/15	LSS	5YHZ9	6
500mL	Glass	—	16/16	LSS	5YJA0	4
	Borosilicate Glass	—	19	Kimble	9HRE3	12
1000mL	Glass	—	19/17	LSS	5PRZ1	2
Volumetric Flasks, Class B						
10mL	Glass	—	10/11	LSS	5PRZ4	12
25mL	Glass	—	10/13	LSS	5PRZ5	12
50mL	Glass	—	10/13	LSS	5PRZ6	12
100mL	Glass	—	12/14	LSS	5PRZ7	8
200mL	Glass	—	14/15	LSS	5PRZ8	6
500mL	Glass	—	16/16	LSS	5PTA0	4

LSS WHIRL-PAK

Sampling Bags

- Low-density polyethylene
- ETO sterilization certificate
- Attached wire ties


No. 407L42


No. 24J930

Cap.	Thickness	Brand	Item No.	Pkg. Qty.
Clear				
2 oz.	0.14mm	LSS	24J934	500
	0.057mm	Whirl-Pak	407L33	500
4 oz.	0.14mm	LSS	24J921	500
	0.057mm	Whirl-Pak	407L35	500
7 oz.	0.14mm	LSS	24J925	500
	0.076mm	Whirl-Pak	407L37	500
13 oz.	0.14mm	LSS	24J935	500
	0.076mm	Whirl-Pak	407L39	500
18 oz.	0.14mm	LSS	24J922	500
	0.064mm	Whirl-Pak	407L41	500
24 oz.	0.17mm	LSS	24J924	500
	0.076mm	Whirl-Pak	407L44	500
27 oz.	0.14mm	LSS	24J931	500
	0.076mm	Whirl-Pak	407L48	500
36 oz.	0.14mm	LSS	24J929	500
	0.076mm	Whirl-Pak	407L50	500
42 oz.	0.17mm	LSS	24J926	500
	0.076mm	Whirl-Pak	407L51	500
70 oz.	0.2mm	LSS	24J927	500
100 oz.	0.2mm	LSS	24J936	250
120 oz.	0.2mm	LSS	24J928	250
123 oz.	0.102mm	Whirl-Pak	407L57	250
Write-On				
2 oz.	0.14mm	LSS	24J932	500
	0.057mm	Whirl-Pak	407L34	500
4 oz.	0.14mm	LSS	24J933	500
	0.057mm	Whirl-Pak	407L36	500
18 oz.	0.14mm	LSS	24J923	500
	0.064mm	Whirl-Pak	407L42	500
24 oz.	0.17mm	LSS	24J930	500
	0.076mm	Whirl-Pak	407L45	500


Glass No. 3WDW3


With Handle & Pour Spout No. 24AM99


LDPE No. 49H011

Carboys

Kimble Dynalon Labware quality . value . service LSS

Glass—Neck is fabricated for a uniform fit with a #12 rubber stopper.

Plastic—Top handles provide easier transport and pouring. Spigot models allow for easy liquid dispensing.

Cap.	Body Material	Closure Type	Includes	H	Dia.	Brand	Item No.
Carboy Solution Bottle Glass							
13.2L	Type I Borosilicate Glass	Stopper	—	448mm	275mm	Kimble	3WDW3
19L			—	502mm	294mm	Kimble	3WDY5
Carboy, Plastic							
5L	HDPE	Screw On and Spigot	Handle and Pour Spout	345.4mm	163mm	Dynalon	24AM97
10L			Handle and Pour Spout	424.2mm	210mm	Dynalon	24AM98
25L			Handle and Pour Spout	563.9mm	379mm	Dynalon	24AM99
50L			Handle and Pour Spout	599.4mm	366mm	Dynalon	24AN01
5L		Screw On	Handle	345.4mm	163mm	Dynalon	24AN05
10L			Handle	345.4mm	163mm	Dynalon	24AN03
			Handle	424.2mm	210mm	Dynalon	24AN06
			Handle	424.2mm	210mm	Dynalon	24AN04
9.993L	LDPE	Screw On and Spigot	Stopcock	376.23mm	83mm	LSS	49H036
19.98L			Stopcock	518.31mm	83mm	LSS	49H037
49.96L			Stopcock	665.16mm	83mm	LSS	49H038
9.993L		Screw On	—	376.23mm	83mm	LSS	49H013
19.98L			—	549.27mm	83mm	LSS	49H011
49.96L			—	665.16mm	83mm	LSS	49H012
9.993L	Polypropylene	Screw On and Spigot	Stopcock	376.23mm	83mm	LSS	49H033
19.98L			Stopcock	518.31mm	83mm	LSS	49H034
49.96L			Stopcock	665.16mm	83mm	LSS	49H035
9.993L		Screw On	—	376.23mm	83mm	LSS	49H028
19.98L			—	518.31mm	83mm	LSS	49H029
			—	549.27mm	83mm	LSS	49H016

Buchner Porcelain Funnels

Chemglass Life Sciences SUPPLIER DIVERSITY

Funnels have heavy wall stems with a sealed-in porcelain fritted disc and is beaded at the top for additional strength. Not recommended for use where pressure would exceed 15 psi.


No. 36A373

Cap.	Funnel Top I.D.	H	Stem L	Mfr. Model	Item No.
35mL	45.4mm	93.2mm	44.58mm	CG-1888-01	36A373
100mL	57.88mm	115.56mm	54.5mm	CG-1888-02	36A374
200mL	76mm	141.2mm	57.84mm	CG-1888-03	36A375
350mL	94.61mm	162.71mm	76.36mm	CG-1888-04	36A376
600mL	115.68mm	208.22mm	100.68mm	CG-1888-05	36A377
800mL	104mm	215.9mm	132mm	CG-1888-06	36A378
1150mL	164.85mm	230mm	104.1mm	CG-1888-07	36A379

Separatory Plastic Funnels

LSS

Short stemmed funnels feature a narrow stem mouth. Designed to decant two immiscible fluids into containers with small openings, reducing spillage.


No. 5PTK5

Funnel Max O.D.	Funnel Top I.D.	Stem L	Item No.
60mm Rim	57mm	30mm	5PTK5
90mm Rim	86mm	104mm	5PTK7
100mm Rim	95mm	45mm	5PTK8
120mm Rim	115mm	45mm	5PTK9

Specimen Containers

LSS

Cap.	Body Material	Closure Material	Item No.	Pkg. Qty.
Jars				
125mL	PP	PP	32V496	12
	PP	PP	32V499	6
250mL	Polycarbonate	PP	32V493	12
	PP	PP	32V497	12
500mL	Polycarbonate	PP	32V494	6
	PP	PP	32V498	6
Containers				
100mL	PP	HDPE	32V490 *†	280
	PP	HDPE	32V491 †	280


No. 32V493


No. 32V490

** Sterile. † Frosted writing area.*

Kimble | GA GRAINGER APPROVED | LSS®

Glass Test Tubes

Culture Tubes are disposable screw-cap tubes suitable for tissue culture and general bacteriological use. Chevron marking area. Shrink-wrapped in plastic film and packed in convenient trays. Screw caps sold separately; see Nos. 9UDE6, 9PX55, and 9UDE8 on Grainger.com®.

Kimble Chase Test Tubes are disposable.

Test Tubes with and without Rim are high-quality Type 1 borosilicate glass that stands up to repeated sterilization, extreme high temperatures, and thermal shock from sudden temperature changes. Low-expansion glass withstands temperatures up to 932°F (500°C).

Nominal Cap.	Outside Dia.	L	Brand	Item No.	Pkg. Qty.
Culture Tube					
8mL	13mm	100mm	Kimble	**8AZ82**	1000
16mL	16mm	125mm	Kimble	**8PAK1**	1000
Test Tube					
4mL	10mm	75mm	Kimble	**8R681**	1000
6mL	12mm	75mm	Kimble	**4YNA8**	1000
10mL	13mm	100mm	Kimble	**4YNA9**	1000
15mL	16mm	100mm	Kimble	**8UN07**	1000
19mL	16mm	125mm	Kimble	**8Z669**	1000
23mL	16mm	150mm	Kimble	**8Z670**	1000
29mL	18mm	150mm	Kimble	**4YNC1**	500
60mL	25mm	150mm	Kimble	**4YNC2**	500
Test Tube without Rim					
4mL	10mm	75mm	GA	**8FYE1**	72
8mL	12mm	100mm	GA	**8RUZ3**	72
14mL	16mm	100mm	GA	**8NHP1**	72
15mL	15mm	125mm	GA	**9CXD1**	72
24mL	18mm	150mm	GA	**8FYE2**	72
60mL	25mm	150mm	GA	**9GMU0**	72
Test Tube with Rim					
3mL	10mm	75mm	LSS	**5PTF9**	72
4mL	10mm	75mm	GA	**8RUZ2**	72
7mL	12mm	100mm	LSS	**5PTG0**	72
8mL	12mm	100mm	GA	**9AMA1**	72
14mL	16mm	100mm	GA	**8FYD8**	72
15mL	15mm	125mm	GA	**9LJV8**	72
16mL	16mm	125mm	GA	**8ZRW5**	72
20mL	16mm	150mm	LSS	**5PTG1**	72
24mL	18mm	150mm	GA	**9MJY7**	72
25mL	18mm	150mm	LSS	**5PTG2**	72
35mL	20mm	150mm	LSS	**5PTG3**	72
36mL	20mm	150mm	GA	**8FYD9**	72
60mL	25mm	150mm	LSS	**5PTG4**	72
60mL	25mm	150mm	GA	**8FYE0**	72



Culture Tube No. 8AZ82



Test Tube with Rim No. 5PTF9



No. 404R81

OHAUS



No. 404R78



No. 404R77

Labware Supports

These multipurpose supports are designed to securely grip and position laboratory supplies. For our complete selection of supports and connectors, go to Grainger.com®

Description	Body Material	L	Item No.
Column Clamp, Max. Jaw Opening: 1.54"	Nickel-Plated Zinc	12.4"	**404T92**
Erlenmeyer Flask Clamp	Aluminum	1.50"	**404R29**
Gas Cylinder Stand	Cast Aluminum	—	**404R81**
Inoculating Turntable, Dia.: 4.49"	Cast Iron	—	**404R78**
Inoculating Turntable, Dia.: 5.91"	Cast Iron	—	**404R77**
Lab Frame, Foot S/S	Aluminum	1.50"	**404R09**
Lab Frame Rkit	Nickel-Plated Zinc	—	**404R23**
Large 3 Prong Sleeves	Fiberglass	—	**404W37**
Large 3 Prong Sleeves,Black	Vinyl	—	**404W40**
Medium 2 Prong Sleeves	Fiberglass	—	**404W29**
Medium 3 Prong Sleeves,Black	Vinyl	—	**404W39**
Medium Lab Frame Kit, Max. Jaw Opening: 1.5"	Nickel-Plated Zinc	18"	**404T91**
Mounting Bar Coupler	Aluminum	4"	**404R13**
Small 3 Prong Sleeves	Vinyl	—	**404W38**
Small 3 Prong Sleeves,Gray	Fiberglass	—	**404W33**
Small 3 Prong Sleeves,Red	Vinyl	—	**404W32**
Support Rod Kit	Stainless Steel	17"	**404U27**
Support Stand	Cast Iron	—	**404T30**
Tripod Support Stand	Cast Iron	—	**404T75**

WHEATON®

GA GRAINGER APPROVED

Qorpak A Division of Berlin Packaging | ESS ENVIRONMENTAL SAMPLING SUPPLY

Glass Vials

- Type 1 borosilicate glass
- Amber vials protect light-sensitive samples



No. 48H806



No. 48H837



No. 3LDT2



No. 41U626

Cap.	Closure Liner Material	Neck Size	Body Color	Brand	Item No.	Pkg. Qty.
Sample Vial with Cap						
2mL	Rubber	8-425	Amber	Wheaton	**48H812**	288
2mL		8-425	Clear	Wheaton	**48H806**	288
4mL		13-425	Amber	Wheaton	**48H813**	144
4mL		13-425	Clear	Wheaton	**48H807**	144
8mL		15-425	Amber	Wheaton	**48H814**	144
8mL		15-425	Clear	Wheaton	**48H808**	144
20mL	PTFE/Rubber	24-400	Amber	Wheaton	**48H829**	72
20mL	Rubber	24-400	Amber	Wheaton	**48H837**	72
20mL		24-400	Clear	Wheaton	**48H817**	72
40mL		24-400	Clear	Wheaton	**48H819**	72
—	PTFE/Rubber	15-425	Clear	Wheaton	**48H823**	144
—	Rubber	18-400	Clear	Wheaton	**48H810**	144
—		20-400	Clear	Wheaton	**48H811**	144
Scintillation Vial with Cap						
20mL	—	22-400	Clear	GA	**3LDT3**	100
20mL	PTFE	22-400	Clear	GA	**3LDT4**	100
20mL	Pulp/Foil	22-400	Clear	GA	**3LDT2**	100
Screw-Thread Vial with Cap						
1.85mL	F217/PTFE	8-425	Amber	Qorpak	**41U652**	144
1.85mL		8-425	Clear	Qorpak	**41U625**	144
4mL	—	13-425	Clear	Qorpak	**41U626**	144
11mL	F217/PTFE	15-425	Clear	Qorpak	**41U628**	144
15mL		18-400	Clear	Qorpak	**41U630**	144
20mL		24-400	Clear	Qorpak	**41U651**	144
40mL		24-400	Clear	Qorpak	**41U639**	72
300mL		24-400	Clear	Qorpak	**41U665**	72
Screw-Thread Vial with Cap, Vacuum and Ionized						
4mL	F217/PTFE	13-425	Clear	Qorpak	**41U645**	144
7.5mL		15-425	Clear	Qorpak	**41U646**	144
20mL		24-400	Clear	Qorpak	**41U668**	144
40mL		24-400	Clear	Qorpak	**41U640**	72
Vial with 0.5 mL 50% Hydrochloric Acid						
40mL	PTFE/Silicone	24-414	Amber	ESS	**8XU71**	72
40mL		24-414	Clear	ESS	**8Z472**	72
Vial with 25 mg Ascorbic Acid						
40mL	PTFE/Silicone	24-414	Clear	ESS	**9PPH6**	72
Vial with Cap						
40mL	PTFE/Silicone	24-400	Clear	Wheaton	**9WFF4**	72

WHEATON®

Ampules

Standard—Commonly used for packaging certified standards. Made from low-potassium borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements.

Prescored—Prescoring eliminates filing. Stems can be pull- or tip-sealed. Clear models are made from low extractable borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements. Amber models are made from amber borosilicate glass that conforms to USP Type 1 requirements for light transmission to protect light-sensitive products.

Cryogenic—Cryule® ampules allow for biological sample preservation in glass and storage at low temperatures. Can be used in the vapor phase of liquid nitrogen. For Cryogenic Gloves, sold separately, see page 1687. Made from low extractable borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements.



No. 23MV66

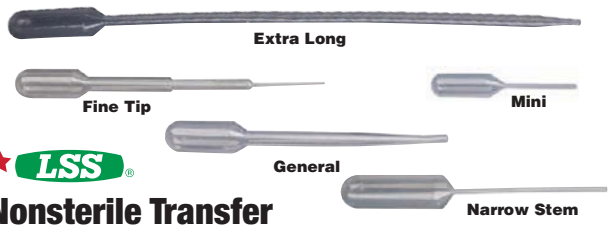


No. 23MV73



No. 23MV68

Cap.	Item No.	Pkg. Qty.
Standard		
1mL	**23MV67**	25
7mL	**23MV66**	25
Prescored		
Amber		
1mL	**23MV73**	144
2mL	**23MV74**	144
5mL	**23MV75**	144
Clear		
1mL	**23MV68**	144
2mL	**23MV69**	144
5mL	**23MV70**	144
10mL	**23MV71**	144
20mL	**23MV72**	144
Cryogenic		
1.2mL	**23MV79**	144
Prescored		
2mL	**23MV85**	144
2mL	**23MV86**	144



LSS

Nonsterile Transfer Pipettes

Low-density polyethylene (LDPE) construction. Graduated pipettes offer more accurate volume measurement.

Cap.	L	Item No.	Pkg. Qty.
Standard			
Extra Long			
6mL	22.6 cm	**21F235**	500
Fine Tip			
1.5mL	10.4 cm	**21F229**	1000
5.8mL	14.9 cm	**21F234**	500
5.8mL	15.6 cm	**21F244**	500
8.7mL	14.7 cm	**21F242**	400
General			
2mL	8.7 cm	**21F222**	1000
4mL	13.0 cm	**21F231**	500
5mL	15.4 cm	**21F225**	500
7.5mL	15.6 cm	**21F226**	500
8mL	15.2 cm	**21F227**	500
9mL	13.7 cm	**21F240**	500
Mini			
1mL	6.9 cm	**21F246**	1000
1.2mL	6.5 cm	**21F239**	1000
1.5mL	70mm	**21F247**	1000
4mL	8.5 cm	**21F238**	500
Narrow Stem			
4.5mL	15.5 cm	**21F233**	500
15mL	15.5 cm	**21F230**	500
Pasteur			
1mL	153mm	**6FAV9**	500
3mL	153mm	**6FAW0**	500
Graduated			
3mL	14 cm	**21F223**	500
Fine Tip			
7.5mL	14.8 cm	**21F249**	500
Narrow Stem			
1.5mL	11.6 cm	**21F237**	500
5mL	14.5 cm	**21F236**	500
5mL	15.0 cm	**21F232**	500
5mL	15.5 cm	**21F224**	500
7mL	15.5 cm	**21F228**	500



No. 23Y321

WHEATON® DLAB

Pipette Fillers and Controllers

Pipette Fillers - Fixed Volume—For use with graduated and plastic pipettes. Operate using one hand. Aspirate by rotating wheel.

Pipette Controllers - Manual—Feature a large-capacity bulb, soft-action lever button, and efficient blow-out system.

Pipette Controller - Electronic—Includes a powerful pump with comfortable finger trigger operation. Speed is adjustable. Rechargeable batteries included.



No. 21R850

Range	Color	Brand	Item No.	Pkg. Qty.
Pipette Fillers - Fixed Volume				
2mL	Blue	Wheaton	**23Y318**	1
10mL	Green	Wheaton	**23Y319**	1
25mL	Red	Wheaton	**23Y320**	1
2mL, 10mL, 25mL	Blue, Green, Red	Wheaton	**23Y321**	3
Pipette Controllers - Manual				
1-100 mL	Gray	Wheaton	**23Y316**	1
0.1 to 100mL	Light Gray/Blue	Dlab	**21R854**	1
0.1 to 100mL	Light Gray/Green	Dlab	**21R856**	1
0.1 to 100mL	Light Gray/Yellow	Dlab	**21R857**	1
0.1 to 100mL	Light Gray/Pink	Dlab	**21R858**	1
Pipette Controller - Electronic				
0.1-100mL	Light Gray/Dark Blue	Dlab	**21R850**	1



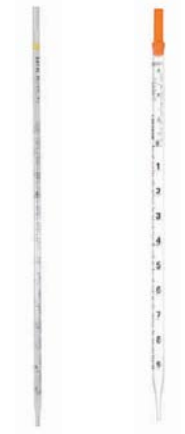
No. 3KWJ2

GA GRAINGER APPROVED Heathrow Scientific

Pipette Storage Racks

Help protect your glass and plastic pipettes, avoid clutter, and keep them within easy reach. Models have strong magnets for mounting on most metal surfaces, except No. 3KVT7.

Color	W	L	H	Brand	Item No.
Horizontal Pipette Storage Rack					
White	6⅛	8¼"	8⅜"	GA	**3KVT7**
Magnetized Pipette Rack, 4 Compartments					
Blue	3½"	11½"	15¾"	Heathrow Scientific	**3KWJ2**
Pipette Rack,					
Blue	3½"	11½"	15¾"	Heathrow Scientific	**8CCA0**
Storage Rack					
Purple	3⅜"	5¾"	5"	Heathrow Scientific	**6PTL5**



No. 11L798 No. 4YMV2

LSS Dynalon Labware quality . value . service

Serological Pipettes

- Easy-to-read markings

Ascending and descending graduations ensure accurate pipetting. Calibrated "to deliver" (TD) to within the tolerance shown. Sterilized with gamma radiation.

Lab Safety Supply—Polystyrene pipettes with easy-to-read graduations printed in black ink, and premium-material filter plug. Color-coded stripes and packaging enable quick volume identification.

Dynalon—Made of crystal-grade polystyrene for improved clarity. Drawn tips allow every drop to drain freely. Cotton plugged. Nonpyrogenic to 0.01EU/mL. Bulk pack No. 4YMV2 has inner packs of 25.

Cap.	Graduation Subdivisions	Tolerance	L	Brand	Item No.	Pkg. Qty.
Bulk						
1mL	0.01mL	±2%	10.5"	LSS	**11L798**	1000
2mL	0.02mL	±2%	10.5"	LSS	**11L799**	800
5mL	0.10mL	±2%	13.5"	LSS	**11L801**	500
10mL	0.1mL	±1%	11.9"	Dynalon	**4YMV2**	500
	0.10mL	±2%	13.5"	LSS	**11L802**	500
25mL	0.20mL	±2%	12.0"	LSS	**11L803**	200
50mL	0.50mL	±2%	13.5"	LSS	**11L804**	200
Individually Wrapped						
1mL	0.01mL	±2%	10.5"	LSS	**11L805**	800
	0.01mL	±1%	11.0"	Dynalon	**8VXX5**	1000
2mL	0.01mL	±1%	11.0"	Dynalon	**4YMT9**	1000
	0.02mL	±2%	10.5"	LSS	**11L806**	600
5ml	0.1mL	±1%	11.7"	Dynalon	**9LUZ0**	200
5mL	0.10mL	±2%	13.5"	LSS	**11L807**	200
10ml	0.1mL	±1%	13.1"	Dynalon	**8AP03**	500
10mL	0.10mL	±2%	13.5"	LSS	**11L808**	200
25mL	0.20mL	±2%	12.0"	LSS	**11L809**	200
	0.2mL	±1%	13.7"	Dynalon	**4YMU9**	200
50mL	0.50mL	±2%	13.5"	LSS	**11L810**	90
50ml	1.0mL	±1%	13.5"	Dynalon	**8AP04**	50



No. 21R675



No. 21R683



No. 21R680

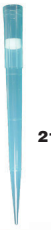
LSS

Pipette Tips

- For our full selection of tips, go to Grainger.com®

Available in resealable bulk bags, hinged racks, or rack packs. Made from 100% virgin polypropylene and free of mold releasing agents/additives.

Barrier/Filter Tips come with a hydrophobic polyethylene filter that serves as barrier against aerosols formed during pipetting.



No. 21R685



No. 21R749

Cap.	Color	Packaging	Item No.	Pkg. Qty.
Standard Tips				
0.5 to 10uL	Clear	Rack Pack	**21R675**	96
1 to 200uL	Yellow	Bag Pack	**21R677**	1000
200uL	Neutral	Autoclavable PP Box	**21R709** *	960
100 to 1000uL	Blue	Bag Pack	**21R680**	1000
1000uL	Neutral	Autoclavable PP Box	**21R711** *	960
5mL	Neutral	Resealable LDPE Polybag	**21R695**	100
			21R696 †	100
10mL			**21R698** ‡	100
Barrier/Filter Tips				
0.5 to 10uL	Clear	Rack Pack	**21R683**	96
10uL	Neutral	Resealable LDPE Polybag	**21R742**	1000
100uL		Autoclavable PP Box	**21R752** *	960
		Resealable LDPE Polybag	**21R745**	1000
100 to 1000uL	Blue	Rack Pack	**21R685**	96
1000uL	Neutral	Autoclavable PP Box	**21R755** *	960
10uL			**21R749**	960

** Sterile. † Graduated. ‡ Extra Long Tip.*

DLAB eppendorf NICHIRYO SUPPLIER DIVERSITY WHEATON®

Single Channel Pipetters

Dragon Lab pipetters are easy to calibrate and maintain with the included tool. Digital display shows volume setting. Low-force design helps reduce repetitive strain injuries.

Eppendorf® Research® Plus high-precison pipetters have a spring-loaded tip cone and are autoclavable.

Nichiryo autoclavable pipetters feature excellent solvent resistance and one-touch calibration. Digital display allows easy incremental volume adjustment. They have ceramic pistons, filtered nozzles, and a nonmetallic tip ejector for safe disposal of used tips.

Wheaton Acura® autoclavable pipetters feature ultrasoft plunger for tip ejection, ejector shaft height adjustment system, and swift-set user calibration.

Range	Color	Item No.
Fixed Volume		
Dlab		
5µL	Light Gray/ Dark Blue	21R803
10µL		21R804
10µL	Light Gray/ Light Blue	21R775
20µL		21R776
20µL	Light Gray/ Dark Blue	21R805
25µL		21R806
25µL	Light Gray/ Light Blue	21R777
50µL		21R778
50µL	Light Gray/ Dark Blue	21R807
100µL	Light Gray/ Light Blue	21R779
100µL	Light Gray/ Dark Blue	21R808
200µL	Light Gray/ Light Blue	21R780
200µL	Light Gray/ Dark Blue	21R809
250µL		21R810
250µL	Light Gray/ Light Blue	21R781
500µL	Light Gray/ Dark Blue	21R811
500µL	Light Gray/ Light Blue	21R782
1000µL	Light Gray/ Dark Blue	21R812
1000µL	Light Gray/ Light Blue	21R783
2000µL		21R784
2000µL	Light Gray/ Dark Blue	21R813
5000µL		21R814
5000µL	Light Gray/ Light Blue	21R785
Dlab Polycarbonate		
5µL	Light Gray/ Purple	21R831
10µL		21R832
20µL		21R833
25µL		21R834
50µL		21R835
100µL		21R836
200µL		21R837
250µL		21R838
500µL		21R839
1000µL		21R840
2000µL		21R841
5000µL		21R842
Eppendorf Research® Plus		
10µL	Gray	44C787
10µL	Yellow	44C788
20µL	Light Gray	44C789
20µL	Yellow	44C790
25µL		44C791
50µL		44C792
100µL		44C793
200µL		44C794
200µL	Blue	44C795
250µL		44C796
1000µL		44C798
Adjustable Volume		
Dlab		
0.1-2.5µL	Light Gray/ Light Blue	21R764
0.1-2.5µL	Light Gray/ Dark Blue	21R792
0.5-10µL	Light Gray/ Light Blue	21R765
0.5-10µL	Light Gray/ Dark Blue	21R793
2-20µL		21R794
5-50µL	Light Gray/ Light Blue	21R766
5-50µL	Light Gray/ Dark Blue	21R795
10-100µL	Light Gray/ Light Blue	21R768
10-100µL	Light Gray/ Dark Blue	21R796
20-200µL	Light Gray/ Light Blue	21R769
20-200µL	Light Gray/ Dark Blue	21R797
50-200µL	Light Gray/ Light Blue	21R770
50-200µL	Light Gray/ Dark Blue	21R798
100-1000µL	Light Gray/ Light Blue	21R771
100-1000µL	Light Gray/ Dark Blue	21R799
200-1000µL		21R801
1000-5000µL		21R802
1000-5000µL	Light Gray/ Light Blue	21R773
Dlab Polycarbonate		
0.1-2.5µL	Light Gray/ Purple	21R821
0.5-10µL		21R822
2-20µL		21R823
5-50µL		21R824
10-100µL		21R825
20-200µL		21R826
50-200µL		21R827
100-1000µL		21R828
1000-5000µL		21R830
Eppendorf Research® Plus		
0.1 to 2.5µL	Dark Gray	44C771
0.5 to 10µL	Gray	44C772
2 to 20µL	Yellow	44C773
2 to 20µL	Light Gray	44C779
10 to 100µL	Yellow	44C774
20 to 200µL		44C775
30 to 300µL	Orange	44C780
100 to 1000µL	Blue	44C776
500 to 5000µL	Violet	44C777
1000 to 10,000µL	Turquoise	44C778
Nichiryo		
100–1000µL	White/Yellow	8DZM8
1000–5000µL		9GFC8
1000–10,000µL		9PYW0
Wheaton Acura		
0.1 to 2uL	Gray	23NC62
0.5 to 10uL		23NC64
1 to 10uL		23NC66
2 to 20uL		23NC69
5 to 50µL	Blue	23Y301
10 to 100uL	Gray	23NC75
20 to 200µL	Blue	23Y302
100 to 1000µL		23Y303



Eppendorf Research Plus No. 44C787



Dragonlab No. 21R764



Nichiryo No. 8DZM8



Wheaton No. 23Y303

DLAB eppendorf WHEATON®

Multichannel Pipetters

Adjustable volume multichannel pipetters are ideal for filling microplates or multiple tubes simultaneously. Deliver uniform volume across all channels.

Range	Color	Item No.
8-Channel		
Dlab		
0.5-10µL	Light Gray/Light Blue	21R786
0.5-10µL	Light Gray/Dark Blue	21R815
5-50µL	Light Gray/Light Blue	21R787
5-50µL	Light Gray/Dark Blue	21R816
50-300µL	Light Gray/Light Blue	21R788
50-300µL	Light Gray/Dark Blue	21R817
Dlab Polycarbonate		
0.5-10µL	Light Gray/Purple	21R843
5-50µL		21R844
50-300µL		21R845
Eppendorf Research® Plus		
0.5 to 10µL	Gray	44C781
30 to 300µL	Orange	44C785
10 to 100µL	Yellow	44C783
Wheaton Acura		
0.5 to 10µL	White	23Y304
12-Channel		
Dlab		
0.5-10µL	Light Gray/Light Blue	21R789
0.5-10µL	Light Gray/Dark Blue	21R818
5-50µL	Light Gray/Light Blue	21R790
5-50µL	Light Gray/Dark Blue	21R819
50-300µL	Light Gray/Light Blue	21R791
50-300µL	Light Gray/Dark Blue	21R820
Dlab Polycarbonate		
0.5-10µL	Light Gray/Purple	21R846
5-50µL		21R847
50-300µL		21R848
Eppendorf Research® Plus		
0.5 to 10µL	Gray	44C782
10 to 100µL	Yellow	44C784
30 to 300µL	Orange	44C786



No. 44C781



No. 23Y304



No. 21R846

WHEATON®

Electronic Pipetters

Offer 6 working modes: Forward, Reverse, Stepper, Dilution, Tactile, and Mixing. These ergonomic units are designed with Right and Left display reading, variable working speed, cycle counter, and an easy-to-use tip ejector. Micropipetters have a reduced shaft length and conical end for easy access to microtubes and microplates. Macropipetters feature an interchangeable nozzle protection filter and adapters for Pasteur pipettes. 360° rotation for best working position.

Graduation Range	Graduation Subdivisions	Mfr. Model	Item No.	
Single Channel - Micropipetters				
0.1 to 2uL	0.01uL	W870902-A	23NA73	
0.5 to 10uL	0.05uL	W870904-A	23NA74	
—	0.05uL	W870906-A	23NA75	*
1 to 20uL	0.1uL	W870908-A	23NA76	
2.5 to 50uL	0.25uL	W870910-A	23NA77	
5 to 100uL	0.5uL	W870912-A	23NA78	
10 to 200uL	1.0uL	W870914-A	23NA79	
50 to 1000uL	5.0uL	W870916-A	23NA80	
Single Channel - Macropipetters				
0.1 to 2mL	0.01mL	W870918-A	23NA81	
0.25 to 5mL	0.05mL	W870920-A	23NA82	
0.5 to 10mL	0.05mL	W870922-A	23NA83	
8-Channel				
0.5 to 10uL	0.05uL	W870924-A	23NA95	
2.5 to 50uL	0.25uL	W870926-A	23NA92	
10 to 200uL	1.0uL	W870928-A	23NA93	
20 to 350uL	5.0uL	W870930-A	23NA94	
12-Channel				
0.5 to 10uL	0.05uL	W870932-A	23NA99	
2.5 to 50uL	0.25uL	W870934-A	23NA96	
10 to 200uL	1.0uL	W870936-A	23NA97	
20 to 350uL	5.0uL	W870938-A	23NA98	

** Uses 200uL tip.*



No. 23NA73



No. 23NA92



Plastic, Luer Lock
No. 19G342



Plastic, Luer Slip
No. 19G334



3-Part Luer Lock
No. 19G395



Glass, Metal
Luer Lock
No. 19G365

Laboratory Syringes NORM-JECT®

Norm-Ject® All-Plastic Syringes—Contain no rubber or silicone oil that could contaminate chromatography or sensitive laboratory samples. Certified for use with most common organic and inorganic chromatography solvents. Positive safety stop helps prevent spills. More chemically and biologically inert than 3-part syringes. Polypropylene barrel and HDPE plunger.

- Individual sterile strip packs

Soft-Ject® 3-Part Disposable Syringes—Positive safety stop helps prevent spills. Polypropylene barrel and lubricated synthetic rubber gasket provide smooth plunger movement. Free from latex, BPA, PVC, and phthalates.

- Individual sterile strip packs

Optima® Reusable Glass Syringes—High-purity borosilicate glass syringes are reusable for laboratory and research applications. Barrels and pistons are interchangeable.

- Individually boxed

Cap.	Item No.	Pkg. Qty.
All-Plastic Syringes		
Catheter		
50 mL	**19G341**	30
Luer Lock		
2 mL	**19G344**	100
5 mL	**19G346**	100
10 mL	**19G342**	100
20 mL	**19G343**	100
30 mL	**19G345**	50
50 mL	**19G347**	30
Luer Slip		
1mL	**19G334**	100
2 mL	**19G337**	100
5 mL	**19G339**	100
10 mL	**19G335**	100
20 mL	**19G336**	100
30 mL	**19G338**	50
50 mL	**19G340**	30

Cap.	Item No.	Pkg. Qty.
3-Part Disposable Syringes		
Luer Lock		
3 mL	**19G390**	100
5 mL	**19G391**	100
10 mL	**19G392**	100
20 mL	**19G393**	100
30 mL	**19G394**	60
50 mL	**19G395**	50
Luer Slip		
1 mL	**19G384**	100
5 mL	**19G386**	100
10 mL	**19G387**	100
20 mL	**19G388**	100
30 mL	**19G389**	60
Reusable Glass Syringes		
Glass Luer		
5 mL	**19G351**	1
10 mL	**19G352**	1
Metal Luer Lock		
5 mL	**19G360**	1
10 mL	**19G361**	1
20 mL	**19G362**	1
30 mL	**19G363**	1
50 mL	**19G364**	1
100 mL	**19G365**	1



No. 49AM37



No. 49AN52



No. 49AR47



No. 49AR68



No. 9EZ20

J.G. Finneran Associates, Inc. WHEATON®

Chromatography Autosampler Vials

Made of Type 1 borosilicate glass, which offers resistance to chemical leaching and heat shock. Amber vials are suitable for light-sensitive applications. Bulk vials are designed for use in most autosamplers. Nos. 9MHC8 and 8XAV4 can also use a plastic snap-cap closure that does not need crimping or decapping tools.

Nos. 49AR35, 49AR36, 49AR68, and 49AR69 are convenience packs, packaged in a clear tray that fits into a bench drawer for easy access. The packaging helps keep products visible and particle-free.

Crimpers and Decappers—Handheld Crimper No. 9EZ20 features an adjustable stop to determine seal tightness. Handheld Decapper No. 9A893 has a precision-tooled decrimping jaw.

Cap.	Includes Closure	Dia.	H	Special Features	Brand	Pkg. Qty.	CLEAR Item No.	AMBER Item No.
Precleaned Sterile Vials								
40mL	Yes	27mm	95mm	VOA (EPA), Assembled with Solid Top White Polypropylene Closures, PTFE Lined	Finneran	72	**49AR55**	—
Vials								
2mL	Yes	12mm	32mm	With PTFE Septa, Screw Thread, 8-425mm	Finneran	100	**49AR35**	—
2mL	Yes	12mm	32mm	With PTFE Red Rubber Septa, Screw Thread, 8-425mm	Finneran	100	**49AR36**	—
100uL	No	12mm	32mm	With Interlocked™ Insert, Screw Thread, 8-425mm	Finneran	100	**49AM38**	**49AM37**
Bulk Vials								
2mL	Yes	12mm	32mm	Screw Thread, 8-425mm	Finneran	1000	**49AR50**	—
2mL	No	12mm	32mm	Screw Thread, 8-425mm w/Marking Spot	Finneran	1000	**49AM17**	—
—		—	32mm	Crimp	Wheaton	1000	**9MHC8**	—
—		—	—	Crimp w/Marking Spot, Graduated	Wheaton	1000	—	**8XAV4**
0.2mL	No	12mm	30mm	Screw Thread, 8-425mm	Finneran	1000	**49AN51**	**49AN52**
2mL	Yes	12mm	32mm	With Caps, Screw Thread, 8-425mm	Finneran	1000	**49AR47**	**49AR48**
Bulk Shell Vials								
1mL	Yes	8mm	40mm	With Conical Snap Plugs	Finneran	1000	**49AR68**	—
1mL	Yes	8mm	40mm	With Starburst Plugs	Finneran	1000	**49AR69**	—

Description	Brand	Item No.	Pkg. Qty.
Vial Seals			
PTFE/ Red Rubber Liner Vial Seals	Wheaton	**4YMP9**	1000
Handheld Crimper			
Crimper, Hand Operated with Adjustable Stop, Cushioned Grip, 11mm	Wheaton	**9EZ20**	1
Decapper			
Decapper, Hand Operated, 11mm	Wheaton	**9A893**	1



No. 49AP67



No. 49AN93



No. 49AL67

Chromatography Vials and Syringes

J.G. Finneran Associates, Inc. HAMILTON®

Sample Vials—Type 1 borosilicate glass construction for resistance to chemical leaching and heat shock.

Vials—Feature an innovative StepVial design that precisely centers a limited volume insert in the vial neck to help ensure dependable use with auto samplers. Sturdy neck design allows use with Poly Crimp™ seals and helps minimize neck breakage while uncapping.

Syringes—Gastight syringes dispense liquids and gases. Each features a precision-machined PTFE plunger tip that creates a leak-free seal, useful with heterogeneous samples to help reduce the chance of a deposit that could cause the plunger to freeze.

Microliter syringes are designed for liquids and feature a stainless steel plunger that fits the glass barrel with a tolerance smaller than 100 millionths of an inch to help extend syringe life. Fluid path is borosilicate glass and stainless steel.

Cap.	Color	Brand	Item No.	Pkg. Qty.
Sample Vials				
11mL	Amber	Finneran	**49AN11**	100
Vials				
4mL	Clear	Finneran	**49AP67**	1000
0.2mL	Clear	Finneran	**49AN33**	1000
2mL	Clear	Finneran	**49AN93**	1000
2mL	Amber	Finneran	**49AN94**	1000
Syringes				
Gastight				
1mL	Clear	Hamilton	**49AL93**	1
25mL	Clear	Hamilton	**49AL57**	1
100uL	Clear	Hamilton	**49AL80**	1
500uL	Clear	Hamilton	**49AL88**	1
Microliter				
10uL	Clear	Hamilton	**49AL67**	1
100uL	Clear	Hamilton	**49AL74**	1

Laboratory Wipes

For cleaning delicate surfaces and equipment in laboratories, research facilities, hospitals, and manufacturing settings.

GEORGIA-PACIFIC ACCUWIPE

Recycled Fiber—Made with 100% recycled fiber. May contain incidental, less than 0.5% nonrecycled fibers.

KIMBERLY-CLARK PROFESSIONAL®

KIMTECH SCIENCE® KIMWIPES® Delicate Task—Light-duty wipes easily pick up liquids and dust. Antistatic dispensing helps reduce lint and electrostatic discharge.

KIMTECH SCIENCE® Precision—Soft, absorbent wipes for general low-lint cleaning. Antistatic dispensing reduces lint. Coated packaging helps protect wipes from spills.

BERKSHIRE

General Cleaning—Nonwoven polyester/cellulose blend designed for spill control and wet wiping. Durx® wipes are white; Bluesorb® 750 are blue.

Presaturated—For use in wet cleaning and disinfecting of critical surfaces with no residue, where control of flammable solvents is required.

Polyester Knit—Excellent nonshedding wipes for applications where high concentrations of liquid are in use with rough surfaces. Ideal for aggressive cleaning and disinfecting.

Gentle Task—Extremely soft and gentle on surfaces. Very low lint. Contains no binders or additives. EcoClean® 60 wipes are biodegradable.



No. 4WK85



No. 2VHW1

Sheet Size	Wipes per Container	Mfr. Model	Item No.	No. of Packs
Georgia-Pacific AccuWipe				
Recycled Fiber				
4½" x 8"	280	29712	**4WK85**	60
15" x 16½"	140	29756/03	**6YE57**	20
15" x 16¾"	70	29778/03	**6YE58**	20
Kimberly-Clark Professional®				
Delicate Task, 1-Ply Tissue				
4½" x 8½"	280	34155	**2VHW1**	60
11¾" x 11¾"	196	34133	**2LVC2**	15
Delicate Task, 2-Ply Tissue				
11¾" x 11¾"	119	34705	**2LVC4**	15
Delicate Task, 3-Ply Tissue				
11¾" x 11¾"	119	34743	**2LVC6**	15
Delicate Task, 1-Ply Tissue				
14¾" x 16½"	140	34256	**2VHW2**	15
Delicate Task, 2-Ply Tissue				
14¾" x 16½"	90	34721	**2VHW3**	15
Precision, 1-Ply Tissue				
4½" x 8½"	280	05511	**2VHV7**	60
11¾" x 11¾"	196	75512	**2LVC8**	15
14¾" x 16¾"	140	05514	**2VHV8**	15
Precision, 2-Ply Tissue				
14¾" x 16¾"	90	05517	**2VHV9**	15
Berkshire				
General Cleaning - Durx®				
9" x 9"	300	DR570.0909.10	**39T060**	1
12" x 12"	150	DR670.1212.20	**3LDL1**	1
18" x 18"	150	DR670.1818.10	**39T062**	1
General Cleaning - Bluesorb® 750				
4" x 4"	300	BS750.0404.40	**3LDL2**	1
9" x 9"	300	BS750.0909.20	**3LDL3**	1
12" x 12"	150	BS750.1212.20	**3LDL4**	1
Presaturated - SatPax® 1000C				
6" x 9"	100	SPXC1000.001.12	**46D097**	1
Polyester Knit - Choice®				
9" x 9"	150	CH709.14	**39T077**	1
9" x 9"	150	CH909.10	**39T079**	1
Polyester Knit - MicroSeal® VP				
9" x 9"	150	MSVP.0909.8	**3LDK7**	1
12" x 12"	75	MSVP.1212.14	**3LDK8**	1
Polyester Knit - Polx® 1200				
9" x 9"	150	P1200.0909.8	**3LDN3**	1
12" x 12"	75	P1200.1212.14	**3LDN4**	1
Polyester Knit - Super Polx® 1200				
9" x 9"	150	S1200.0909.8	**3LDN2**	1
Gentle Task - EcoClean® 60				
9" x 9"	300	ECW60.0909.20	**6ENZ0**	1
12" x 12"	150	ECW60.1212.20	**6ENZ1**	1
Gentle Task - LabX® 170				
9" x 9"	500	LB170.0909.40	**39T067**	1

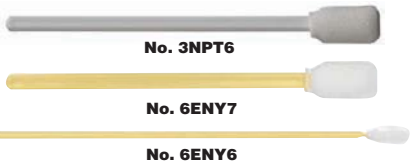
Vacuum Manifolds

Outlets are widely spaced for easy funnel positioning. Aluminum clamps are generously sized for one-handed operation. 2-way valve stopcocks provide a leakproof seal. Autoclavable manifolds use materials that stand up to repeated autoclave cycles.

Material	Cap.	Size	Item No.
Vacuum Manifold			
Glass/SS	1-Place	9.8 x 7.8 x 15.2"	**46Z315**
Vacuum Manifolds, Autoclavable			
SS/PTFE/PSF	3-Place	22.8 x 9.8 x 9.8"	**46Z322**
SS/PTFE/PSF	6-Place	38.5 x 9.8 x 9.8"	**46Z323**



No. 46Z315



No. 3NPT6

No. 6ENY7

No. 6ENY6

Cleanroom Swabs

- Pkg. of 100

Swabs are made for a variety of cleaning tasks in critical applications and cleanroom environments. 100 ppi reticulated foam. Laundered to be clean and pure before use.

Sock-Tip Foam—Solvent-resistant polypropylene handles sandwiched between two layers of the polyurethane foam head material.

Closed-Foam—Generate low particles and fibers; free of silicone, amides, and DOP (dioctyl phthalate).

Open-Cell Foam—Polyurethane foam sock heads over a rigid core.

Polyester Knit—Continuous-filament polyester knit heads for low particles, fibers, ions, and extractables. Highly abrasion-resistant and autoclavable.

Polyester Nonwoven—Flexible tips; made of hydroentangled polyester with low particle generation.

Size	Style	Brand	Item No.
Sock Tip Foam Swabs			
3/16"	3/16" Tip, 3" Handle	Berkshire	**3NPT5**
½"	½" Tip, 5" Handle	Berkshire	**3NPT6**
Closed Foam Swabs			
125mm	Rigid Tip	Berkshire	**6ENY7**
Open Cell Foam Swabs			
70mm	Flexible Tip	Berkshire	**6ENX8**
70mm	Rigid Tip	Berkshire	**6ENX9**
70mm	Pointed Tip	Berkshire	**6ENY0**
70mm	Rigid Tip	LSS	**22CW70**
70mm	Flexible Tip	LSS	**22CW71**
70mm	Rigid Tip	LSS	**22CW72**
70mm	Pointed Tip	LSS	**22CW73**
75mm	Pointed Tip	LSS	**22CW82**
90mm	Flexible Tip	LSS	**22CW84**
125mm	Flexible Tip, A	LSS	**22CW69**
125mm	Rigid Tip	LSS	**22CW80**
162mm	Flexible Tip	Berkshire	**6ENY4**
162mm	Flexible Tip	LSS	**22CW77**
Polyester Knit Swabs			
70mm	Flexible Tip	Berkshire	**6ENY1**
70mm	Rigid Tip	Berkshire	**6ENY2**
70mm	Flexible Tip	LSS	**22CW74**
70mm	Rigid Tip	LSS	**22CW75**
75mm	Pointed Tip	LSS	**22CW83**
75mm, Head Length 22.7mm	Rigid Tip, A	LSS	**22CW68**
90mm	Flexible Tip	LSS	**22CW85**
125mm	Rigid Tip	Berkshire	**6ENY8**
125mm	Rigid Tip, A	LSS	**22CW81**
162mm	Flexible Tip	Berkshire	**6ENY6**
162mm	Flexible Tip	LSS	**22CW79**
Polyester Nonwoven Swabs			
70mm	Flexible Tip	Berkshire	**6ENY3**
70mm	Flexible Tip	LSS	**22CW76**
162mm	Flexible Tip	Berkshire	**6ENY5**
162mm	Flexible Tip	LSS	**22CW78**

Bottle Top Filter Units

Fast, clean polyethersulfone (PES) membranes lower the chance of removing critical protein components from media.

Foxx Autofil® Bottle Top Filters—For sterilization of tissue cultures and microbiological media buffers, reagents, and other laboratory fluids. Molded finger grips and lower center of gravity design helps reduce risk of spills.

LSS Bottle Top Filters—Sterilized and packaged in individual bags. Fit on solution bottles in Filter Units, or other standard threaded solution storage bottles.

Filter Units—Include a solution bottle and a Bottle-Top Filter.

Cap.	Size	Dia.	Brand	Item No.	Pkg. Qty.
Bottle Top Filters					
250mL	0.22 µm	4⅝"	Foxx	**26ZU69**	24
	0.45 µm	4⅝"	Foxx	**26ZU72**	24
500mL	0.22 µm	4⅝"	Foxx	**26ZU70**	24
	0.45 µm	4⅝"	Foxx	**26ZU73**	24
1000mL	0.22 µm	5¼"	Foxx	**26ZU71**	24
	0.45 µm	5¼"	Foxx	**26ZU74**	24
Upper: 150mL	Pore: 0.22 µm	50mm	LSS	**11L838**	24
Upper: 150 mL	Pore: 0.45 µm	50mm	LSS	**11L834**	24
Upper: 250 mL	Pore: 0.22 µm	50mm	LSS	**11L839**	24
	Pore: 0.45 µm	50mm	LSS	**11L835**	24
Upper: 500 mL	Pore: 0.22 µm	75mm	LSS	**11L840**	24
	Pore: 0.45 µm	75mm	LSS	**11L836**	24
Upper: 1000mL	Pore: 0.22 µm	90mm	LSS	**11L841**	24
	Pore: 0.45 µm	90mm	LSS	**11L837**	24
Bottle Top Filter Units					
250mL	0.22 µm	4⅝"	Foxx	**26ZU63**	12
	0.45 µm	4⅝"	Foxx	**26ZU66**	12
500mL	0.22 µm	4⅝"	Foxx	**26ZU64**	12
	0.45 µm	4⅝"	Foxx	**26ZU67**	12
1000mL	0.22 µm	5¼"	Foxx	**26ZU65**	12
	0.45 µm	5¼"	Foxx	**26ZU68**	12
Filter Units					
Upper: 150 mL Receiver: 150 mL	Pore: 0.22 µm Pore: 0.45 µm	50mm 50mm	LSS LSS	**11L830** **11L826**	12 12
Upper: 250mL Receiver: 250mL	Pore: 0.22 µm	50mm	LSS	**11L831**	12
Upper: 250 mL Receiver: 250 mL	Pore: 0.45 µm	50mm	LSS	**11L827**	12
Upper: 500 mL Receiver: 500 mL	Pore: 0.2 µm Pore: 0.45 µm	75mm 75mm	LSS LSS	**11L832** **11L828**	12 12
Upper: 1000 mL Receiver: 1000 mL	Pore: 0.22 µm Pore: 0.45 µm	90mm 90mm	LSS LSS	**11L833** **11L829**	12 12



No. 26ZU64



No. 11L833

Filters and Filter Paper Grades

Grade/Size	Characteristics	Application
Filters		
A	Fine porosity, fast flow rate	Radioimmunoassay and gravimetric determination of airborne particulates.
A-E	Fine porosity, fast flow rate, 99.98% DOP effic.	Primarily used in suspended solids and air monitoring.
C	Fine porosity, fast flow rate	RIA procedures and harvesting lymphocytes.
E	Fine porosity, fast flow rate	Suspended particle analysis in water, cell harvesting, prefiltration, and air monitoring.
F	Fine porosity, medium flow rate	Filter diluted aqueous solutions pre laser spectroscopy; TCLP analysis; & collect fine precipitated proteins including immunoglobulin.
TSS	High flow rate & cap., excellent wet strength	High-efficiency medium for testing dissolved and suspended solids in water and wastewater.
VSS	High loading capacity	Monitoring air pollution & high-temp. flue gas, filtering high-temp. solvents, determining fixed & volatile solids in high-heat applic.
Filter Paper		
CFP2, 8µm	Medium to slow flow rate	General filtration and absorbent conveyance, in plant growth trials, and in monitoring air and gases for contaminants.
CFP40, 8µm-10µm	Medium retention and flow rates	General liquid and gas procedures and liquid food tests.



No. 14A840

Whatman™ LSS®

Filters and Filter Paper

Quantitative Filter Paper—Designed for gravimetric analysis and the preparation of samples for instrumental analysis.

Qualitative Filter Paper—Made from high quality cotton liners to ensure reproducibility and uniformity.

Grade	Material	Pore Size	Dia.	Brand	Item No.	Pkg. Qty.
Filters						
Membrane Filters						
—	Cellulose Nitrate	5um	47mm	Whatman	**32HH74**	100
—	Mixed Cellulose Ester (MCE)	0.45um	47mm	Whatman	**32HK60**	100
—		0.45um	47mm	Whatman	**32HJ22**	200
—	Mixed Cellulose Esters	0.45um	4.7cm	LSS	**14A840**	1000
—		0.45um	4.7cm	LSS	**14A842**	100
—		0.45um	4.7cm	LSS	**14A843**	200
Glass Microfiber Filters						
A	Binderless Borosilicate Glass Microfiber	1.6um	9.0cm	LSS	**14A851**	100
C		1.2um	9.0cm	LSS	**12K889**	100
E		1.5um	5.5cm	LSS	**12K951**	100
TSS		1.5um	4.7cm	LSS	**12K992**	100
TSS		1.5um	9.0cm	LSS	**12K995**	100
VSS		1.5um	4.7cm	LSS	**12K999**	100
VSS		1.5um	9.0cm	LSS	**12L004**	100
VSS		1.5um	11.0cm	LSS	**12K996**	100
934-AH	Borosilicate Glass	1.5um	21mm	Whatman	**32HJ07**	100
934-AH		—	32mm	Whatman	**32HL05**	100
934-AH		—	42.5mm	Whatman	**32HL04**	100
934-AH		—	47mm	Whatman	**32HH59**	100
934-AH		—	55mm	Whatman	**32HH85**	100
934-AH		—	90mm	Whatman	**32HH58**	100
GF/A		—	47mm	Whatman	**32HJ90**	100
Filter Paper						
Quantitative Filter Paper						
40, Ashless	High Quality Cotton Linters	8.0um	5.5cm	Whatman	**32HK15**	100
40, Ashless		8.0um	11.0cm	Whatman	**32HH91**	100
41, Ashless		20 to 25um	4.7cm	Whatman	**32HK12**	100
41, Ashless		20 to 25um	12.5cm	Whatman	**32HH61**	100
42, Ashless		2.5um	9.0cm	Whatman	**32HL14**	100
50		2.7um	9.0cm	Whatman	**32HL11**	100
CFP40	Cellulose	8.0um	9.0cm	LSS	**12K911**	100
CFP40		8.0um	11.0cm	LSS	**12K912**	100
CFP40		8.0um	12.5cm	LSS	**12K913**	100
CFP40		8.0um	15.0cm	LSS	**12K914**	100
CFP42		2.5um	11.0cm	LSS	**12K926**	100
CFP42		2.5um	18.5cm	LSS	**12K929**	100
CFP541		25.0um	9.0cm	LSS	**12K937**	100
CFP541		25.0um	18.5cm	LSS	**12K939**	100
CFP541		25.0um	12.5cm	LSS	**12K938**	100
General Qualitative Filter Paper						
230	Creped Paper	25 to 30um	25cm	Whatman	**32HL42**	50
Qualitative Filter Paper						
CFP1	Cellulose	11.0um	12.5cm	Whatman	**32HH68**	100
CFP1		11.0um	15cm	Whatman	**32HH67**	100
CFP1		11.0um	18.5cm	Whatman	**32HK50**	100
CFP1		11.0um	4.25cm	LSS	**12K890**	100
CFP1		11.0um	5.5cm	LSS	**12K891**	100
CFP1		11.0um	9.0cm	LSS	**12K893**	100
CFP1		11.0um	11.0cm	LSS	**12K894**	100
CFP1		11.0um	12.5cm	LSS	**12K895**	100
CFP1		11.0um	15.0cm	LSS	**12K896**	100
CFP1		11.0um	18.5cm	LSS	**12K897**	100
CFP1		11.0um	24.0cm	LSS	**12K898**	100
CFP2		8.0um	4.25cm	Whatman	**32HK36**	100
CFP2		8.0um	9.0cm	LSS	**12K902**	100
CFP2		8.0um	11.0cm	Whatman	**32HK33**	100
CFP2		8.0um	15.0cm	Whatman	**32HK32**	100
CFP3		6.0um	15.0cm	LSS	**12K909**	100
CFP4		20 to 25um	9.0cm	Whatman	**32HJ11**	100
CFP4		20 to 25um	11.0cm	Whatman	**32HH66**	100
CFP4		20 to 25um	12.5cm	Whatman	**32HH65**	100
CFP4		25.0um	11.0cm	LSS	**12K917**	100
CFP4		25.0um	12.5cm	LSS	**12K922**	100
CFP4		25.0um	15.0cm	LSS	**12K923**	100
CFP4		25.0um	18.5cm	LSS	**12K924**	100
CFP41		20.0um	11.0cm	LSS	**12K918**	100
CFP41		20.0um	12.5cm	LSS	**12K919**	100
CFP50		2.7um	9.0cm	LSS	**36L290**	100

Whatman™ LSS®

Syringe Filters

Molded-in polypropylene housings for a reliable seal without adhesives. Supplied sterile in individual blister packs.

Anotop™—Made of inorganic membranes; low protein binding. For organic solvents and aqueous materials.

Nylon—Universal filter for analytical procedures such as chemical and beverage filtration.

Glass Fiber—Handles viscose solutions or turbid liquids.

MCE—For aqueous solutions, oil particulates, and bacteria. Effectively binds trace proteins.

PES—Polyethersulfone material has a low affinity for proteins and extractables; faster flow rate than PVDF.

PTFE—Hydrophobic membrane has great temperature resistance.

PVDF—Hydrophilic membrane for filtering nonagressive aqueous and mild organic solutions.

GD/X™—Designed with a prefiltration stack and process 3 to 7 times more sample volume.

Puradisc—Special tube tip allows the sample to be accurately dispensed into a microvial.

Filter Material	Pore Size	Membrane Dia.	Brand	Item No.	Pkg. Qty.
Anotop Female Luer-Lok™ Inlet, Male Luer Outlet					
Anopore Membrane	0.02 um	10mm	Whatman	**32HJ33**	50
Female Luer-Lok™ Inlet, Male Luer-Lok™ Outlet					
Glass Fiber, Polypropylene, Nylon	0.45um		LSS	**36L285**	100
GD/X Female Luer-Lok™ Inlet, Male Luer Outlet					
Glass Microfiber	0.45 um	25mm	Whatman	**32HJ01**	150
Polypropylene	0.45 um	25mm		**32HJ28**	150
GD/XP Female Luer-Lok™ Inlet, Male Luer Outlet					
Nylon	0.45 micron m	25mm	Whatman	**32HJ23**	150
Luer-Lok™ Inlet, Luer-slip (no- barb) Outlet					
Glass Fiber	0.70 um	25mm	LSS	**12K971**	100
	1.00 um	25mm		**12K972**	100
Hydrophilic PES	0.22um	25mm		**12K969**	100
	0.45um	25mm		**12K970**	100
Hydrophilic PVDF	0.22um	13mm		**12K966**	100
	0.45um	13mm		**12K967**	100
Hydrophobic PTFE	0.22um	13mm		**12K962**	100
	0.22um	25mm		**12K964**	100
	0.45um	13mm		**12K963**	100
	0.45um	25mm		**12K965**	100
Nylon	0.22 micron m	25mm		**12K960**	100
	0.22um	13mm		**12K959**	100
	0.45um	25mm		**12K961**	100
Male Luer-Lok™ Inlet, Tapered 4mm O.D. Outlet					
Hydrophilic PVDF	0.45 um	30 um	LSS	**11L851**	30
MCE (Mixed Cellulose Ester)	0.22 um	13 um		**11L856**	75
	0.22 um	30 um		**11L857**	30
	0.45 um	13 um		**11L858**	75
	0.45 um	30 um		**11L859**	30
Nylon	0.45 um	13 um		**11L860**	75
	0.45 um	30 um		**11L861**	30
PES	0.22 um	13 um		**11L852**	75
	0.22 um	30 um		**11L853**	30
	0.45 um	13 um		**11L854**	75
	0.45 um	30 um		**11L855**	30
PTFE	0.22 um	13 um		**11L862**	75
	0.22 um	30 um		**11L863**	30
	0.45 um	13 um		**11L864**	75
	0.45 um	30 um		**11L865**	30
PVDF	0.10 um	13 um		**11L846**	75
	0.10 um	30 um		**11L847**	30
	0.22 um	13 um		**11L848**	75
	0.22 um	30 um		**11L849**	30
	0.45 um	13 um		**11L850**	75
Puradisc Female Luer-Lok™ Inlet, Male Luer Outlet					
Glass Microfiber	0.7 um	25mm	Whatman	**32HK63**	200
Nylon	1.0 um	25mm		**32HK74**	50
PES	0.2 um	25mm		**32HJ04**	50
PTFE	0.45 um	13mm		**32HK69**	500
PVDF	0.2 um	13mm		**32HJ36**	50
	0.45 um	13mm		**32HK72**	2000



No. 12K961 (Shown in Package)



Individual Filter No. 11L859



Individual Filter No. 11L846

CELLTREAT SCIENTIFIC PRODUCTS www.celltreat.com

LSS®



No. 11L825

Dishes

Designed for optimum culture growth and media shelf life. Dishes made from polystyrene material are single-use, preventing risk of contamination.

Petri Dishes—Flat design provides uniform agar thickness, promoting culture growth.

Tissue Culture Dishes—Treated dishes are supplied sterile (gamma irradiated) and are vacuum-gas plasma treated for consistent hydrophilic cell attachment surface.

Description	Material	Includes	Dim.	Volume Cap.	Brand	Item No.	Pkg. Qty.
Petri Dishes							
Petri Dish, Nontreated	Polystyrene	Gripping Area	35 x 10mm	5mL	CELLTREAT	**38C784**	960
	Polystyrene	Gripping Ring	60 x 15mm	7 to 8mL	CELLTREAT	**38C785**	500
	Polystyrene	Gripping Ring	100 x 15mm	15 to 16mL	CELLTREAT	**38C786**	500
Petri Dish	Polystyrene	Lid	57 x 16mm	41mL	LSS	**5PTK0**	12
	Polystyrene	Lid	86 x 16mm	92 mL	LSS	**5PTK2**	12
	Polystyrene	Lid	101 x 18mm	160 mL	LSS	**5PTK3**	12
	Polystyrene	Lid	116 x 21mm	212 mL	LSS	**5PTK4**	12
	Glass	Lid	75 x 15mm	66mL	LSS	**5PTF5**	12
	Glass	Lid	100 x 20mm	157mL	LSS	**5PTF7**	10
Tissue Culture Dishes							
Tissue Culture Treated Dish	Polystyrene	Gripping Ring, Lid	60 x 15mm	7-8mL	LSS	**11L821**	500
	Polystyrene	Gripping Ring, Lid	70 x 15mm	7 to 8mL	CELLTREAT	**38C783**	500
	Polystyrene	Gripping Ring, Lid	100 x 15mm	15-16mL	LSS	**11L823**	500
	Polystyrene	Gripping Ring, Lid	100 x 20mm	15-16mL	LSS	**11L824**	300
	Polystyrene	Lid	35 x 10mm	5mL	LSS	**11L822**	500
	Polystyrene	Lid	150 x 15mm	25-28mL	LSS	**11L825**	60
	Polystyrene	Lid	150 x 20mm	25 to 28mL	CELLTREAT	**38C782**	100

LSS® CELLTREAT SCIENTIFIC PRODUCTS www.celltreat.com

Tissue Culture Flasks

- Polystyrene

Unbreakable, treated flasks feature uniform hydrophilic surface for consistent cell attachment. Canted-neck design for easy access. CELLTREAT® flasks are packaged sterile (gamma irradiated) in zip-closure bags.

Capacity	Brand	Item No.	Pkg. Qty.
Vented Cap			
25mL	LSS	**11L811**	50
50mL	LSS	**11L812**	50
250mL	LSS	**11L813**	25
600mL	LSS	**11L814**	20
Plug Seal Cap			
25mL	CELLTREAT	**38C789**	200
50mL	CELLTREAT	**38C790**	200
250mL	CELLTREAT	**38C791**	100
1250mL	CELLTREAT	**38C792**	18



No. 38C789

General Laboratory Products

Prepared Culture Media

Used for the cultivation of microorganisms. Media are made from high-quality ingredients according to USP guidelines.

Description	Size	Item No.	Pkg. Qty.
0.85 per. Saline	5mL	**45H385**	100
	9mL	**45H386**	100
Baird Parker Agar	Monoplate	**45H469**	100
Blood Agar,Anaerobic	Monoplate	**45H443**	100
Butterfield's Buffer	90mL	**45H356**	50
	99mL	**45H357**	50
Deionized Water	1000mL	**45H441**	12
Diluting/Rinsing Solutions	100mL	**45H440**	12
MacConkey Agar	Monoplate	**45H459**	100
MacConkey Broth	100mL	**45H351**	12
Nutrient Agar,Slants	Slants	**45H352**	100
Phosphate Buffer	90mL	**45H362**	24
Potato Dextrose Agar	Monoplate	**45H466**	100
Standard Methods Plate Count Agar	Monoplate	**45H463**	100
Tryptic Soy Agar	250mL	**45H406**	9
Tryptic Soy Agar w/5% Sheep Blood	Monoplate	**45H456**	100
Tryptic Soy Broth	90mL	**45H419**	12
	100mL	**45H420**	12
	500mL	**45H424**	12
	1000mL	**45H426**	6



6 Well
11L793



96 Well
No. 38C824

LSS® CELLTREAT SCIENTIFIC PRODUCTS www.celltreat.com

Tissue Culture Plates

- Polystyrene
- Packaged sterile (gamma irradiated)

Alphanumeric markings clearly identify the multiple wells. Raised rims on wells nest into rings on the lid to reduce evaporation and limit risk of cross contamination.

Includes	No. of Wells	Working Volume Per Well	Volume Cap.	Brand	Item No.	Pkg. Qty.
Tissue Culture Treated Multiple Well Plates						
Lid	6	1.90 to 2.90mL	17mL	LSS	**11L793**	50
	12	0.76 to 1.14mL	6.8mL	LSS	**11L794**	50
	24	0.38 to 0.57mL	3.5mL	LSS	**11L795**	50
	48	0.19 to 0.29mL	1.55mL	LSS	**11L796**	50
	96	0.075 to 0.20mL	0.39mL	LSS	**11L797**	50
Well Tissue Culture Plate						
Lid	96	0.075 to 0.20mL	0.39mL	CELLTREAT	**38C819**	100
Nontreated Plates						
Lid	6	1.90 to 2.90mL	17mL	CELLTREAT	**38C820**	100
	12	0.76 to 1.14mL	6.8mL	CELLTREAT	**38C821**	100
	24	0.38 to 0.57mL	3.5mL	CELLTREAT	**38C822**	100
	48	0.19 to 0.29mL	1.55mL	CELLTREAT	**38C823**	100
Nontreated Plate w/Lid						
Lid	96	0.075 to 0.20mL	0.39mL	CELLTREAT	**38C827**	100
Nontreated Plate w/o Lid						
—	96	50 to 300uL	0.39mL	CELLTREAT	**38C826**	100
Nontreated Plates, Round Bottom						
Lid	96	50 to 300uL	0.32mL	CELLTREAT	**38C824**	100
—	96	50 to 300uL	0.32mL	CELLTREAT	**38C825**	100



No. 38C744

No. 38C747

CELLTREAT SCIENTIFIC PRODUCTS www.celltreat.com

Cell Scrapers

Use for the manual harvesting of cells in tissue culture flasks. ABS handles with TPE blades. Scraper-style blade is positioned parallel to the handle for windshield wiper-like scraping. Lifter-style blade is perpendicular to the handle for use with a raking motion.

Type	Handle L	Color	Item No.	Pkg. Qty.
Scraper Blade	25cm	Green	**38C744**	100
Lifter Blade	25cm	Green	**38C745**	100
Scraper Blade	39cm	Green	**38C746**	100
Lifter Blade	39cm	Green	**38C747**	100

acumedia® A Subsidiary of Neogen® Corporation

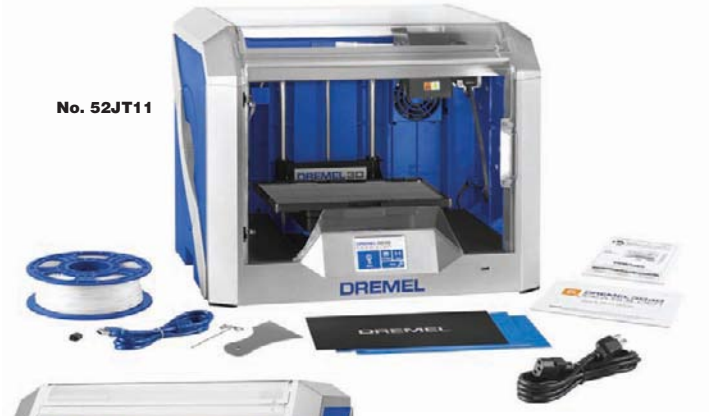
SUPPLIER DIVERSITY®

Raw Culture Media

- To see our full line of culture media, search for "microbiology media" on Grainger.com®
- 500g container

High-quality dehydrated culture media meet the stringent requirements of a broad range of food safety, biotech, industrial, pharmaceutical, and life science applications.

Description	Item No.
Brain-Heart Infusion Agar	**39M181**
Brain-Heart Infusion Broth	**39M184**
Eosin Methylene Blue Agar, Levine	**39M163**
Hektoen Enteric Agar	**39M233**
Lactose Broth	**39M239**
Letheen Broth Base	**39M169**
MacConkey Agar	**39M160**
Mannitol Salt Agar	**39M245**
Nutrient Broth	**39M251**
Potato Dextrose Agar	**39M260**
Sabouraud Dextrose Agar	**39M263**
Tryptic Soy Agar	**39M154**
Tryptic Soy Agar with Lecithin and Tween 80	**39M293**
Tryptic Soy Broth	**39M296**



No. 52JT11



No. 48RJ79



No. 54FY56

DREMEL

3D Printers and Filament

Dremel provides reliability through its proprietary sensor technology that helps prevent clogging. No. 52JT11 is ideal for applications in the educational environment. It allows the printing of nontoxic PLA in a fully enclosed unit with minimal noise. Through easy-to-use software and a full-color touch screen, students can operate the printers. No. 48RJ79 provides K-12 curriculum so you can unbox and start teaching. No. 54FY56 printer is for higher education and businesses. It helps eliminate design constraints through customization of tools, parts, molds, and prototypes while helping to reduce costs and production time. Use computer-aided design software to custom build in hours instead of days, weeks, or months. Print PLA, Eco-ABS, and polycarbonate.

No. 52JT11 includes printer, white PLA filament spool, sheet of black build tape, 2 sheets of blue build tape, build plate, power supply cord, USB cable, object removal tool, unclog tool, USB flash drive with print studio software, and quick start guide.

No. 48RJ79 includes printer, ECU curriculum on USB, professional development course (4 hr.), 2 build plates, 4 sheets of black build tape, 12 sheets of blue build tape, 4 PLA filament spools (black, white, blue, orange), power supply cord, USB cable, object removal tool, unclog tool, USB flash drive with print studio software, and quick start guide.

No. 54FY56 includes printer, black spool nylon filament, black spool Eco-ABS filament, USB flash drive with slicing software, build plate, 2 glue sticks, object removal tool, unclog tool, and quick start guide.

Description	Build Volume	Build Speed	Layer Thickness	Mfr. Model	Item No.
3D Printer, 22½" L X 15½" W X 16" H	10.00" x 6.00" x 6.70"	4.72 in./sec.	0.100 to 0.300mm	3D40-01	**52JT11**
Desktop 3D Printer Kit, 22½" L X 15½" W X 16" H	10.00" x 6.00" x 6.70"	4.72 in./sec.	0.100 to 0.300mm	3D40-EDU	**48RJ79**
Desktop 3D Printer, 15 29/32" L X 20" W X 16" H	10.00" x 6.00" x 6.70"	4.72 in./sec.	100 Microns	3D45-01	**54FY56**

Description	Color	For Use With	Pkg. Qty.	Item No.
3D Printer Build Tape	Blue	3D40-01, 3D40-EDU	10	**48XV15**
3D Printer Build Sheets	Black	3D40-01, 3D40-EDU	3	**48XV16**
Nylon 3D Printing Filament	Black	Dremel DigiLab 3D45 Printers	1	**437U99**
ABS 3D Printing Filament	Black	Dremel DigiLab 3D45 Printers	1	**437U98**



No. 490K93



No. 221X67

LULZBOT

3D Printers and Filament Spools

LULZBOT® 3D PRINTERS

Reliable, easy-to-use printer features innovative self-leveling, self-cleaning, and a modular tool head design for flexible and multimaterial upgrades. It utilizes an open filament (2.85 or 3mm) format, allowing the freedom to choose from dozens of materials. Build volume can make huge 3D prints nearly the size of a basketball or print many objects in a single print run. No. 490K93 features 20% larger build volume with no increase in footprint, an innovative belt-driven Z-axis for better print quality and faster cycle times. It prints both rigid and flexible filaments out of the box, and has quiet operation.

FILAMENT

ABS (acrylonitrile butadiene styrene) filament resists impacts, has moderate flexibility, and is stronger than PLA filament. It has a high melting point and requires a heated build platform to prevent uneven shrinkage, layer distortion, or warping. ABS filament is petroleum-based and emits toxic fumes when heated. It is used for building moving parts, automotive components, and electronic housings.

Description	Build Volume	Build Speed	Layer Thickness	Mfr. Model	Item No.
Lulzbot® 3D Printers					
3D Printer, 17 63/64" L X 13 11/32" W	6.30" x 6.30" x 7.09"	11.81 in./sec.	0.5 to 0.50mm	MINI 2	**490K93**

Dia.	Color	Item No.
3D Printing Filament		
2.85mm	Black	**221X67**
2.85mm	Blue	**221X68**
2.85mm	Gray	**221X70**
2.85mm	Green	**221X69**
2.85mm	LulzBot™ Green	**221X71**
2.85mm	Natural	**221X72**
2.85mm	Orange	**221X73**
2.85mm	Red	**221X74**
2.85mm	White	**221X75**
2.85mm	Yellow	**221X76**

DEWALT FLEXVOLT

Power of Corded. Freedom of Cordless.

The FLEXVOLT™ system brings you an innovative voltage-changing battery and a lineup of 60V MAX* and 120V MAX* tools to match. Dual-voltage battery is backwards compatible with our 20V MAX* tools so you get up to 4x the runtime when used with DEWALT 20V MAX tools. (*Maximum initial battery voltage measured without a workload is 20, 60, and 120V. Nominal voltage is 18, 54, and 108).

- 20 MAX: 60V MAX battery is compatible with our 20V MAX tools
- 60V MAX: Brings the power of corded to whole new lineup of tools
- 120 MAX: Combines two 60 MAX batteries for cordless freedom

20V/60V MAX

DEWALT

FLEXVOLT

Batteries and Chargers



No. 53JH17

Batteries feature tri-platform compatibility with 20V MAX, 60V MAX, or 120V MAX batteries. LED state of charge display.

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Pkg. Qty.	Item No.
FLEXVOLT™ Batteries				
Li-Ion	6.0Ah	DCB606	1	**48XP89**
		DCB606-2	2	**48XP90**
	9.0Ah	DCB609	1	**53JH17**
		DCB609-2	2	**53JH18**

Battery Capacity	For Use With	Mfr. Model	Item No.
Battery and Charger Kit			
9.0Ah	20V MAX and 60V MAX DEWALT® Batteries	DCB118X1	**54DC95**



20V MAX DEWALT FLEXVOLT

Powerstations

1800W Portable Power Station™ allows for convenient, portable power in remote locations. Runs most corded tools using four 20V MAX batteries. Features an integrated temperature-controlled cooling fan and heavy-duty roll cage.

Charger Input Voltage	No. of Ports	Includes	Mfr. Model	Item No.
120VAC	4	Unit Only	DCB1800B	**48XP92**

20V MAX DEWALT

Corded Power Supply



Designed for 120V MAX tools to convert into corded for unlimited runtime.

For Use With	Mfr. Model	Item No.
120V Max Flexvolt Tools	DCA120	**48XP94**

20V/60V MAX

DEWALT

FLEXVOLT

Cordless Combination Kit



3-speed, high-performance all-metal transmission helps optimize tool-to-task. The Hammer Drill features a 3-mode LED light to help you see in confined spaces. Kit also includes one 60V MAX FLEXVOLT™ lithium-ion battery and one 20V MAX lithium-ion compact battery and fast charger.

Battery Capacity	Tools Included	Voltage	Mfr. Model	Item No.
2.0Ah, 6.0Ah	Hammer Drill, Impact Driver	20.0/60.0	DCK299D1T1	**48XR16**

60V MAX

DEWALT

FLEXVOLT

Cordless Stud and Joist Drill Kit



Bare Tool
No. 48XR13

Brushless motor for increased power and runtime. E-Clutch® System and mechanical clutch help keep you in control and protect the tool. 2-speed transmission and VSR trigger let you dial in appropriate speed. Adjustable bail handle and 2-position side handle for leverage and control. LED light.

Battery Capacity	No Load RPM	Voltage	Battery Incl.	Mfr. Model	Item No.
6.0Ah	0 to 300/0 to 1250	60.0	(2) 48XP89	DCD460T2	**48XR15**
	0 to 300/0 to 1300		48XP89	DCD460T1	**48XR14**
—	0 to 300/0 to 1250		No	DCD460B	**48XR13**

60V MAX

DEWALT

FLEXVOLT

Cordless Angle Grinders



Bare Tool
No. 48XR10

Brushless motor grinder delivers equivalent power to a 13A corded grinder. Safety kickback brake stops the grinder quickly when it senses a pinch, stall, or bind-up.

Battery Capacity	Voltage	Battery Incl.	Mfr. Model	Item No.
2.0Ah, 6.0Ah	60.0	(2) 48XP89	DCG414T2	**48XR12**
		48XP89	DCG414T1	**48XR11**
		No	DCG414B	**48XR10**

60V MAX DEWALT FLEXVOLT

Cordless Rotary Hammers



No. 53JH22

60V MAX* Brushless 1 9/16" SDS MAX* 0 to 549 no load rpm Combination Hammer delivers 6.1 joules of impact energy. Ideal for horizontal serial drilling for #4 - #8 rebar, dry coring, and chipping in any mid to upper wall and ceiling application. E-Clutch® system provides enhanced control in a bind-up situation and minimizes sudden torque reaction compared to standard clutches. Hammer utilizes SHOCKS® Active Vibration Control® technology.

Description	Battery Incl.	Includes	Mfr. Model	Item No.
FLEXVOLT™ Cordless Rotary Hammer Kit	(2) Mfr. No. DCB609	FAN Cooled Charger, Side Handle, Kit Box	DCH481X2	**53JH23**
	53JH17	(2) Batteries, Charger, Kit Box	DCH733X2	**453U20**
FLEXVOLT™ Cordless Rotary Hammer	No	Side Handle	DCH481B	**53JH22**

DEWALT

Tool Connect™ Tag and Router



No. 54DD09

Track anything on the jobsite including equipment, storage, large tools, and materials through the Tool Connect™ free mobile app. Tags feature a blue LED identification light for easy pairing with the Tool Connect™ app. Permanently attaches onto the foot of the tool to prevent removal. Extend WiFi™ access from the trailer to the rest of the jobsite with the DEWALT Jobsite WiFi™ Access Point router.

Description	Mfr. Model	Item No.	Pkg. Qty.
Tool Tag			
Track Anything On The Jobsite, Tool Connect	DCE041	**54DD09**	1
	DCE041-4	**54JJ54**	4
	DCE041-10	**54DD10**	10
	DCE041-25	**54DD11**	25
Tool Connector			
Creates Connection Capability, Tool Connect	DCE040	**54DD08**	1
Wireless Router			
Wireless Router, 300 MB/sec.	DCT100	**437T06**	1

60V MAX

DEWALT

FLEXVOLT

Cordless Circular Saw Kits



No. 48XP96

Circular saws feature electronic brakes and brushless motor. Durable high-grade aluminum shoe for accurate cuts. Versatile bevel cut capacity up to 57° with stops at 22.5 and 45. LED light.

Battery Capacity	Blade Dia.	No Load RPM	Voltage	Battery Incl.	Mfr. Model	Item No.
6.0Ah	7¼"	5800	60VDC	(2) 48XP89	DCS575T2	**48XP98**
				48XP89	DCS575T1	**48XP97**
—				No	DCS575B	**48XP96**

No. 423K71



60V MAX

DEWALT

FLEXVOLT

Cordless Worm Drive Circular Saws

Battery Capacity	Blade Dia.	No Load RPM	Voltage	Battery Incl.	Mfr. Model	Item No.
6.0Ah/hr., 9.0Ah/hr.	7¼"	5800	60VDC	No	DCS577B	**423K69**
9.0Ah				53JH17	DCS577X1	**423K71**

60V MAX

DEWALT

FLEXVOLT



No. 48XP99

Cordless Reciprocating Saws

Feature brushless motors and variable-speed triggers. Keyless lever-action blade clamp. Pivoting shoe provides leverage for different applications. LED light and a rubber grip.

Battery Capacity	No Load Strokes/Minute	Voltage	Battery Incl.	Mfr. Model	Item No.
6.0Ah	0 to 3000	60VDC	(2) 48XP89	DCS388T2	**48XR02**
			48XP89	DCS388T1	**48XR01**
—			No	DCS388B	**48XP99**

60V MAX

DEWALT

FLEXVOLT

Cordless Table Saws

Designed for tool-free adjustments. Flip over rip fence allows for material support and narrow rip cuts. 24" rip capacity. Features rack and pinion telescoping fence system. Includes on-board storage for components.



No. 48XR03

Battery Capacity	Blade Dia.	No Load RPM	Voltage	Battery Incl.	Includes	Mfr. Model	Item No.
6.0Ah	8¼"	5800	60VDC	48XP89	Carbide Blade, Push Stick, Wrenches, Miter Gauge	DCS7485T1	**48XR04**
—				No		DCS7485B	**48XR03**

120V

DEWALT

FLEXVOLT

Cordless Miter and Sliding Saw Kits



No. 48XR07

Cordless sliding kits offer two flexible power options, corded for unlimited runtime, or 100% cordless powered by two 60V MAX* batteries. Integrated adjustment-free Cutline™ Blade Positioning System for accuracy and visibility. High-visibility bevel scale makes angle adjustments accurate and easy. Tall sliding fences support crown molding up to 7½" nested and base molding up to 6¾" vertically against the fence. Adjustable stainless steel miter detent plate has 10 positive stops. Miters 60° to the right and 50° to the left providing increased capacity.

Battery Capacity	Blade Dia.	No Load RPM	Battery Incl.	Includes	Mfr. Model	Item No.
6.0Ah	12 in	3800	(2) 48XP89	Corded Power Supply, Dual Port Charger, Blade, Dust Bag, Blade Wrench, Vertical Material Clamp	DHS790AT2	**48XR07**
			No	Corded Power Supply, Carbide Blade, Dust Bag, Blade Wrench, Vertical Material Clamp	DHS790AB	**48ZU44**

60V MAX

DEWALT

FLEXVOLT



No. 54DD22

Cordless Track Saws

60V MAX* 6½" TrackSaw Kit has a brushless motor to easily power through hard-woods up to 2⅛" thick. Features straight plunge mechanism for optimal ergonomics. For use with TrackSaw™ cutting systems.

Battery Capacity	Voltage	Cutting Accuracy	No Load RPM	Includes	Mfr. Model	Item No.
6.0Ah	60VDC	1/64" On Track	0 to 1750/0 to 4000	T-Stack, Blade, Blade Wrench, Battery, T-Stack Kit Box	DCS520T1	**54DD23**
				T-Stack, Blade, Blade Wrench	DCS520B	**54DD22**
6.0Ah		—	2500 to 4200	T-Stack, Blade, Blade Wrench, Battery, 59" Track	DCS520ST1	**54JJ55**

60V MAX

DEWALT

FLEXVOLT



No. 453U30

Construction Saws

Blade Dia.	Arbor Size	Depth of Cut	Includes	Mfr. Model	Item No.
9"	⅞"	3¼"	9" Abrasive Wheel, 9" Diamond Blade, Blade Wrench, Water Hose Connection, (2) Batteries, Charger	DCS690X2	**453U30**
			9" Abrasive Wheel, 9" Diamond Blade, Blade Wrench, Water Hose Connection	DCS690B	**453U31**

Batteries & Chargers

- 3-LED fuel gauge shows state of charge
- XR batteries operate down to 0°F for superior cold weather performance
- No memory and virtually no self-discharge for maximum productivity



No. 11A157



No. 49EM80

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.	Pkg. Qty.
20V MAX Compact Batteries				
Li-Ion	1.5Ah	DCB201	**11A168**	1
Li-Ion	2.0Ah	DCB203	**21RV46**	1
Li-Ion	2.0Ah	DCB203-2	**21RV49**	2
Li-Ion	3.0Ah	DCB230	**49AX96**	1
Li-Ion	3.0Ah	DCB230-2	**49AX97**	2
20V MAX Batteries				
Li-Ion	4.0Ah	DCB204	**21RV47**	1
Li-Ion	4.0Ah	DCB204-2	**21RV48**	2
Li-Ion	5.0Ah	DCB205	**31AC52**	1
Li-Ion	5.0Ah	DCB205-2	**34CT50**	2
Li-Ion	6.0Ah	DCB206	**52NA71**	1
Li-Ion	6.0Ah	DCB206-2	**52NA72**	2
20V MAX Bluetooth Batteries				
Li-Ion	2.0Ah	DCB203BT	**31AC50**	1
Li-Ion	2.0Ah	DCB203BT-2	**39EL93**	2
Li-Ion	5.0Ah	DCB205BT-2	**52NA78**	2

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Chargers - Single Port			
120VAC	DEWALT® 12.0 to 20.0V Max Li-Ion Batteries, 492P05	DCB115	**11A157**
120VAC	All DEWALT® 20V and 60V Max Batteries	DCB118	**49EM80**
Battery Chargers - Single Port Vehicle			
12VDC	DEWALT® 12.0 to 20.0V Max Li-Ion Batteries	DCB119	**11A158**
Battery Chargers - Dual Port			
120VAC	DEWALT® 12V MAX, 20V Max and 60V MAX Li-Ion Batteries	DCB103	**24T872**
12 or 20V	DEWALT® 12V MAX, 20V Max and 60V MAX Li-Ion Batteries	DCB102	**30RV89**
Battery and Dual Port Charger Kit			
120VAC	DEWALT® 12V MAX, 20V Max and 60V MAX Li-Ion Batteries	DCB102BP	**31AC56**
USB Power Source			
120VAC	Mobile Phones,Digital Audio Devices,Digital Cameras,Small Electronic Devices	DCB090	**24WY40**

FASTER. Application Speeds

STRONGER. Brushless Motors Delivering Higher Torque Or More Power

BETTER. Runtime, More Features Or Improved Ergonomics



20V MAX* Tool Advantages

- Up to 57% more speed and up to 35% more runtime per charge than standard Li-Ion tools
- Lightweight and ergonomic design
- Innovative features that drive productivity
- XR® tools feature brushless motors for more efficient, cooler running
- Most XR® tools have high capacity batteries for longer runtime per charge

**Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.*



No. 54DD03

Combo Kits

- ½" Hammer Drill, 0-34,000 blows per min.
- ¼" Hex Impact Driver, 0-3200 blows per min.
- 6½" Circular Saw and 1⅛" Reciprocating Saw
- Includes worklight, 2 batteries, charger and contractor bag
- ½" Drill/Driver with ratcheting chuck, 2-speed, 350 UWO
- ¼" Hex Impact Driver with LED light, 0-3200 blows per min.
- Includes 2 batteries, charger, and contractor bag

No. of Tools	Hammer Drill	Drill	Impact Driver	Screwgun	Circular Saw	Reciprocating Saw	Cut-Out Tool	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
XR Brushless 5.0Ah Combo Kits													
2	39RV93	No	39RV80		No	No			(2) 31AC52	11A157	Kit Box	DCK299P2	**45DK63**
2			Mfr. No. DCF887						(2) 11A164		Contractor Bag	DCK233P2	**54DD02**
2	39RV93		39RV80						31AC52	11A157	Contractor Bag	DCK299P2LR	**490L14**
6	39RV93		39RV92			24T859		11A159	31AC52	11A157	Contractor Bag	DCK694P2	**54JK23**
6	39RV93		39RV80			49AX88		11A159	31AC52	11A157	Contractor Bag	DCK695P2	**54JK24**
XR Brushless 4.0Ah Combo Kits													
2			39RV80	31AC37	31AC37				21RV47	11A157	Contractor Bag	DCK267M2	**49EM79**
2	39RV93		39RV80						(2) 21RV47	11A157	Contractor Bag	DCK299M2	**39RW13**
XR Brushless 2.0Ah, 4.0Ah Combo Kits													
3	Mfr. No. DCD796		Mfr. No. DCF887						21RV46, 21RV47	11A157	Contractor Bag	DCK287D1M1	**459R40**
Compact XR Brushless 2.0Ah Combo Kits													
2			39RV80	31AC37					21RV46	Mfr. No. DCB112	Contractor Bag	DCK267D2	**49EM78**
2				31AC37			31AC33		(2) 21RV46	Mfr. No. DCB112	Contractor Bag	DCK263D2	**31AC36**
2		39RW21	39RV80						(2) 21RV46	11A157	Contractor Bag	DCK283D2	**39RV89**
2	21RV42		21RV45						(2) 21RV46	11A157	Contractor Bag	DCK287D2	**39RW06**
4		Mfr. No. DCD791	Mfr. No. DCF887			Mfr. No. DCS367		11A159	(2) 11A164		Contractor Bag	DCK484D2	**54DC97**
Compact 1.3AH/1.5AH Combo Kits													
2		24T853	24T861						(2) 11A168	Mfr. No. DCB112	Contractor Bag	DCK280C2	**11A169**
2	11A172		24T861						(2) 11A168	Mfr. No. DCB112	Contractor Bag	DCK285C2	**11A171**
2		Mfr. No. DCD777	Mfr. No. DCF787						(2) 11A168	Mfr. No. DCB107	Contractor Bag	DCK277C2	**459R39**
5.0Ah Combo Kits													
2	Mfr. No. DCD996					Mfr. No. DCS367			(2) 11A164		Contractor Bag	DCK294P2	**54DD04**
4	Mfr. No. DCD996		Mfr. No. DCF887			Mfr. No. DCS367		11A159	(2) 31AC52		Contractor Bag	DCK494P2	**54DD03**
5	39RV93		39RV92		Mfr. No. DCS393	24T859			31AC52	11A157	Contractor Bag	DCK594P2	**54JK22**
2.0Ah Combo Kits													
4		Mfr. No. DCD791	Mfr. No. DCF887		Mfr. No. DCS570			11A159	(2) 11A164		Contractor Bag	DCK483D2	**54DC96**

Expand Your System with BARE TOOLS

- DEWALT Bare Tools are sold without a battery or charger allowing you to add to your cordless tool system at a great value.



20V MAX LITHIUM ION | DEWALT

Drill/Drivers & Screwguns

- Deliver maximum power and fast application speeds
- Connect, track, and customize tools with ToolConnect™ app





Chuck Size	No Load RPM	Max. Power	Battery Included	Battery Capacity	Mfr. Model	Item No.
Premium XR Brushless Drill/Drivers						
½"	0 to 450/0 to 1300/0 to 2000	820UWO	(2) Mfr. No. DCB205	5.0Ah	DCD991P2	**39RV96**
½"	0 to 450/0 to 1300/0 to 2000 RPM	820UWO	No	None	DCD991B	**39RW04**

Chuck Size	No Load RPM	Max. Power	Battery Included	Battery Capacity	Mfr. Model	Item No.
Premium Drill/Drivers						
½"	0 to 575/0 to 1350/0 to 2000	535UWO	(2) 21RV47	4.0Ah	DCD980M2	**11A177**
Compact XR Brushless Drill w/Tool Connect™						
½"	0 to 550/0 to 2000	460UWO	(2) 21RV46	2.0Ah	DCD792D2	**54DD12**
½"	0 to 550/0 to 2000	460UWO	No	2.0Ah	DCD792B	**54DD13**
Compact XR Brushless Drill/Drivers						
½"	0 to 550/0 to 2000	460UWO	(2) Mfr. No. DCB203	2.0Ah	DCD791D2	**39RW10**
½"	0 to 550/0 to 2000	460UWO	No	None	DCD791B	**39RW21**
Compact Drill/Drivers						
½"	0 to 600/0 to 2000	350UWO	(2) 11A168	1.5Ah	DCD780C2	**11A170**
½"	0 to 600/0 to 2000	350UWO	No	None	DCD780B	**24T853**
Right Angle Drills						
⅜"	0 to 650/0 to 2000	360UWO	11A168	1.5Ah	DCD740C1	**11A173**
⅜"	0 to 650/0 to 2000	360UWO	No	—	DCD740B	**24T852**
XR Brushless Metal Screw Guns						
¼" Hex	2000	—	(2) 21RV47	4.0Ah	DCF622M2	**49AY01**
¼" Hex	2000	—	No	4.0Ah	DCF622B	**49AX99**
XR Brushless Drywall Screw Guns						
¼" Hex	0 to 4440	—	(2) 21RV47	4.0Ah	DCF620M2	**31AC39**
¼" Hex	0 to 4400	—	(2) 21RV46	2.0Ah	DCF620D2	**31AC38**
¼" Hex	0 to 4400	—	No	—	DCF620B	**31AC37**

20V MAX LITHIUM ION | DEWALT

Hammer Drills

- Deliver high performance in multiple materials, including masonry
- Connect, track, and customize tools with ToolConnect™ app



No Load RPM	Blows per Minute	Max. Power	Battery Included	Battery Capacity	Mfr. Model	Item No.
Premium XR Brushless Hammer Drill/Drivers w/Tool Connect™						
0 to 2000	0 to 34,000	820UWO	(2) 11A164	5.0Ah	DCD997P2BT	**54DD18**
Premium XR Brushless Hammer Drill/Drivers						
0 to 2250	0 to 38,250	820UWO	(2) Mfr. Model No. DCB205	5.0Ah	DCD996P2	**39RV78**
0 to 2,000	0 to 38,250	820UWO	No	—	DCD996B	**39RV93**
Premium Hammer Drill/Drivers						
0 to 575/0 to 1350/0 to 2000	0 to 9775/0 to 22,950/0 to 34,000	535UWO	(2) 21RV47	4.0Ah	DCD985M2	**11A178**
0 to 575/0 to 1350/0 to 2000	0 to 9775/0 to 22,950/0 to 34,000	535UWO	No	—	DCD985B	**24T854**
Compact XR Brushless Hammer Drill/Drivers						
0 to 2000	0 to 34,000	460UWO	(2) 11A164	2.0Ah	DCD797D2	**54DD14**
0 to 550/0 to 2000	0 to 34,000	460UWO	(2) 21RV46	2.0Ah	DCD796D2	**39RV86**

20V MAX LITHIUM ION | DEWALT

Impact Drivers

- Impact wrenches deliver maximum torque for a wide range of fastening applications
- Connect, track, and customize tools with ToolConnect™ app



Drive Size	Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Tool Length	Mfr. Model	Item No.
Premium Impact Drivers								
¼"	2800	3200	1400 in.-lb.	(2) 21RV47	4.0Ah	5⅝"	DCF885M2	**11A181**
¼"	2800	3200	1400 in.-lb.	No	1.5Ah	5⅝"	DCF885B	**24T861**
Premium XR Brushless Impact Drivers								
¼"	3250	3800	1825 in.-lb.	(2) 21RV46	2.0Ah	—	DCF887D2	**39RV92**
¼"	3250	3800	1825 in.-lb.	(2) 21RV47	4.0Ah	—	DCF887M2	**39RW18**
¼"	3250	3800	1825 in.-lb.	No	—	—	DCF887B	**39RV80**
Premium XR Brushless Impact Drivers w/Tool Connect™								
¼"	3250	3800	1825 in.-lb.	(2) 21RV46	2.0Ah	5 21/64"	DCF888D2	**54DD15**
¼"	3250	3800	1825 in.-lb.	(2) 11A164	5.0Ah	5 21/64"	DCF888P2BT	**54DD16**
¼"	3250	3800	1825 in.-lb.	No	—	5 21/64"	DCF888B	**54DD17**
Premium XR High Torque Impact Wrenches								
Detent Pin Anvil								
½"	1900	2400	700 ft.-lb.	(2) 31AC52	5.0Ah	8 13/16"	DCF899P2	**39EL92**
½"	1900	2400	700 ft.-lb.	No	N/A	8 13/16"	DCF899B	**39EL96**
Hog Ring Anvil								
½"	1900	2400	700 ft.-lb.	(2) 31AC52	5.0Ah	8 13/16"	DCF899HP2	**39EL98**
½"	1900	2400	700 ft.-lb.	No	N/A	8 13/16"	DCF899HB	**39EL95**
¾"	1900	2400	700 ft.-lb.	(2) 31AC52	5.0Ah	8 13/16"	DCF897P2	**39EL91**
¾"	1900	2400	700 ft.-lb.	No	N/A	8 13/16"	DCF897B	**39EL89**
Quick Release Chuck								
7/16"	1900	2400	500 ft.-lb.	(2) 31AC52	5.0Ah	8 13/16"	DCF898P2	**39EL94**
7/16"	1900	2400	500 ft.-lb.	No	N/A	8 13/16"	DCF898B	**39EL87**

20V MAX LITHIUM ION | DEWALT

Impact Wrenches

- Impact wrenches deliver maximum torque for a wide range of fastening applications
- Connect, track, and customize tools with ToolConnect™ app



Drive Size	Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Premium Impact Wrenches							
⅜"	2800	2700	150 ft.-lb.	No	4.0Ah	DCF890B	**52NA73**
⅜"	2800	2700	150 ft.-lb.	(2) Mfr. No. DCB204	4.0Ah	DCF890M2	**52NA74**
Detent Pin Anvil							
½"	2300	2700	150 ft.-lb.	(2) 21RV47	4.0Ah	DCF880M2	**38A893**
½"	2300	2700	150 ft.-lb.	No	N/A	DCF880B	**38A894**
½"	1000	1500	330 ft.-lb.	No	N/A	DCF894B	**54JK38**
½"	1000	1500	330 ft.-lb.	(2)31AC52	5.0Ah	DCF894P2	**54JK36**
½"	1650	2700	400 ft.-lb.	(2) 21RV47	4.0Ah	DCF889M2	**24T866**
½"	1650	2700	400 ft.-lb.	No	N/A	DCF889B	**38A892**
Hog Ring Anvil							
⅜"	2300	2700	130 ft.-lb.	(2) 21RV47	4.0Ah	DCF883M2	**24T865**
⅜"	2300	2700	130 ft.-lb.	No	N/A	DCF883B	**24T855**
½"	2300	2700	150 ft.-lb.	(2) 21RV47	4.0Ah	DCF880HM2	**38A895**
½"	1000	1500	330 ft.-lb.	No	N/A	DCF894HB	**54JK39**
½"	1000	1500	330 ft.-lb.	(2)31AC52	5.0Ah	DCF894HP2	**54JK37**
½"	1650	2700	400 ft.-lb.	(2) 21RV47	4.0Ah	DCF889HM2	**24T867**



20V MAX LITHIUM ION | DEWALT

Rotary Hammers

- SHOCKS™ active vibration control reduces vibration for user comfort
- Factory-set clutch reduces sudden reaction if bit jams
- LED worklight

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
Rotary Hammers					
0 to 1000	0 to 4000	No	6.0Ah, 5.0Ah	DCH293B	**52YP67**
0 to 1000	0 to 4000	(2) Mfr. No. DCB206	6.0Ah	DCH293R2	**52YP68**
0 to 1000	0 to 4000	(2) Mfr. No. DCB609	9.0Ah	DCH293X2	**52YP69**
0 to 1000	0 to 4480	(2) 52NA72	6.0Ah	DCH293R2DH	**54JJ38**
0 to 1100	0 to 4600	31AC52	5.0Ah	DCH273P2	**44YX78**
0 to 1100	0 to 4600	No	5.0 Ah	DCH273B	**44YX76**
0 to 1100	0 to 4600	(2) Mfr. No. DCB205	5.0Ah	DCH273P2DHO	**437T05**
0 to 1500	0 to 5500	(2) 21RV47	4.0Ah	DCH133M2	**52NA75**
0 to 1500	0 to 5500	No	4.0Ah	DCH133B	**52NA76**

For 20V Batteries, see page 667.

Circular Saws

- Powerful motor makes demanding cuts with ease
- Metal-cutting saws feature LED light and SiGHT-LINE™ window for clear visibility of material



Blade Dia.	No Load RPM	Cutting Depth @ 45°	Cutting Depth @ 90°	Battery Included	Battery Capacity	Mfr. Model	Item No.
Circular Saws							
6½"	5150	1⅝"	2¼"	31AC52	5.0Ah	DCS391P1	**11A166**
6½"	5150	1⅝"	2¼"	No	—	DCS391B	**24T860**
7¼"	5200	2"	2⁹⁄₁₆"	No	—	DCS570B	**54DD20**
7¼"	5200	2"	2⁹⁄₁₆"	11A164	5.0Ah	DCS570P1	**54DD21**
Metal Cutting Circular Saws							
5½"	3700	—	1¹¹⁄₁₆"	(2) 31AC52	5.0Ah	DCS373P2	**38A918**
5½"	3700	—	1¹¹⁄₁₆"	No	—	DCS373B	**38A919**

Miter Saws

- Integrated LED light shows the blade cut line
- Crosscut at 45° W: 5½"
- Crosscut at 90° W: 8"
- Cast-in side handles for easy carrying
- Cam lock miter system
- Includes carbide blade



Blade Dia.	No Load RPM	Crosscut @ 45°W	Crosscut @ 90°W	Battery Included	Battery Capacity	Mfr. Model	Item No.
7¼"	3750	5½"	8"	11A165	3.0Ah	DCS361M1	**39RW25**
7¼"	3750	5½"	8"	No	—	DCS361B	**39RW02**

Bandsaws

- Center handle position provides superior balance for accurate cuts
- LED worklight



Surface ft. per Min. High	Round Cap.	Battery Included	Battery Capacity	Mfr. Model	Item No.
570	2½"	31AC52	5.0Ah	DCS371P1	**25DU76**
570	2½"	No	—	DCS371B	**25DU77**
490	4¾"	(2) 31AC52	(2) 5.0Ah	DCS374P2	**39RV81**
490	4¾"	No	—	DCS374B	**39RV91**

Cordless Staplers

Staplers feature brushless motor power by a DEWALT 20V MAX Lithium-ion battery. They are ready to go to work without the hassle of using gas, compressor, and hose. Tackle large and small jobs with the features of a pneumatic tool and the freedom of cordless.



Voltage	Fastener Type	Magazine Cap.	Recommended Staples	Battery Included	Mfr. Model	Item No.
Narrow Crown						
20.0	Narrow Crown Staples	100	¼"	No	DCN681B	**400A04**
				21RV46	DCN681D1	**400A05**
Engineered Flooring						
20.0	Narrow Crown Staples	100	¼"	No	DCN682B	**400A06**
				21RV47	DCN682M1	**400A07**

Reciprocating Saws

- Reciprocating saws feature 4-position blade clamp



Length of Stroke	Strokes per Minute	Battery Included	Mfr. Model	Item No.
Orbital Cutting				
1⅛"	0 to 30000 to 3000	31AC52	DCS380P1	**11A179**
1⅛"	0 to 30000 to 3000	No	DCS380B	**24T859**
Straight Cutting XR Premium Brushless				
1⅛"	0 to 29000 to 2900	31AC52	DCS367P1	**49AX90**
1⅛"	0 to 29000 to 2900	21RV46	DCS367D1	**49AX89**
1⅛"	0 to 29000 to 2900	No	DCS367B	**49AX88**
Linear Cutting				
1⅛"	0 to 29000 to 2900	31AC52	DCS387P1	**31AC42**
1⅛"	0 to 29000 to 2900	No	DCS387B	**31AC41**

Jig Saws

- Jigsaw provides 4-position orbital action



Length of Stroke	Strokes per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
1"	0 to 3000	21RV47	4.0Ah	DCS331M1	**24T868**
1"	0 to 3000	No	—	DCS331B	**24T858**

Nailers

The 20V MAX XR lithium brushless dual speed framing nailer features nail penetration and precision placement. Designed for optimizing speed for various fastener lengths and easy jam removals. Accepts 30 to 34° paper tape nails; clipped head or offset full round head. Finish nailers offer accuracy and performance with features like tool-free jam release.



Fastener Range	Magazine Cap.	Battery Included	Mfr. Model	Item No.
Framing Nailers				
Paper Tape				
2" to 3½"	55	21RV47	DCN692M1	**30PL22**
2" to 3½"	55	No	DCN692B	**30PL21**
Finish Nailers				
15 Gauge				
1¼" to 2½"	110	No	DCN650B	**400A08**
1¼" to 2½"	110	21RV46	DCN650D1	**400A09**
16 Gauge Finish Nailers				
1¼" to 2½"	110	21RV46	DCN660D1	**39RW22**
16 Gauge				
1¼" to 2½"	110	No	DCN660B	**39RW08**
18 Gauge				
⅝" to 2⅛"	110	No	DCN680B	**400A02**
18 Gauge Finish Nailers				
⅝" to 2⅛"	110	21RV46	DCN680D1	**400A03**



Oscillating Tools

- Brushless motor delivers longer runtime
- Quick-Change system for easy blade and attachment changes

Orbits per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
0 to 20,000	No	2.0Ah	DCS356B	**55KE57**
18,000	No	3.0Ah	DCS354B	**55CJ65**

Cordless Planer

- Brushless motor
- 30,000 cuts per min.
- Calibrated depth adjustment knob

Lightweight and cordless planer can be easily transported around the jobsite without the hassle of a cord. Operates off of the 20V MAX lithium ion battery system. Includes wrench and guide fence.



Cutting Depth	No Load RPM	Battery Included	Battery Capacity	Mfr. Model	Item No.
5/64"	15,000	No	2.0Ah, 3.0Ah, 4.0Ah, 5.0Ah, 6.0Ah	DCP580B	**49EM77**

Grease Guns

- High-volume pump pushes up to 5 oz./min.
- Extra-long 42" flexible hose



No. 25DU73

Cartridge Capacity	Bulk Capacity	Max. Operating Pressure	Battery Capacity	Battery Included	Mfr. Model	Item No.
14½ oz.	16 oz.	10,000 psi	4.0Ah	21RV47	DCGG571M1	**25DU72**
				No	DCGG571B	**25DU73**

Cordless Caulk Guns

Apply adhesives, caulks, and sealants. Antidrip T-handle guns run on Li-Ion battery and feature variable-speed trigger and dial, tool-free front-end change, hang hook, and LED light.



No. 49EM90

Cap.	Cartridge Type	Battery Incl.	Battery Capacity	Mfr. Model	Item No.
0 to 21 Sec/Cartridge					
10 oz.	9-10 oz. Adhesive Caulk	21RV46	2.0Ah	DCE560D1	**49EM91**
	9-10 oz. Adhesive Caulk	No	2.0Ah	DCE560B	**49EM90**
20 oz.	10 or 20 oz. Sausage Pack	21RV46	2.0Ah	DCE580D1	**49EM95**
	10 or 20 oz. Sausage Pack	No	2.0Ah	DCE580B	**49EM94**
29 oz.	29 oz. Adhesive Caulk	21RV46	2.0Ah	DCE570D1	**49EM93**
¼ to 6½ in./min.					
21 oz.	20-21 oz. Adhesive 1:1	No	—	DCE591B	**413W20**
20.5 oz.	20-21 oz. Adhesive 1:1	21RV46	2.0Ah	DCE591D1	**413W21**
28 oz.	27-28 oz. Adhesive 10:1	No	—	DCE595B	**413W22**
	27-28 oz. Adhesive 10:1	21RV46	2.0Ah	DCE595D1	**413W23**

Cordless Shears Kit

- Speed range: 0 to 2450 spm

360° tool-free swivel head allows you to access tight quarters comfortably. Cuts 7/32" strip for consistent and accurate cuts. Cordless feature allows you to take the tool to your workplace.



No. 49EM99

Steel Capacity	Min. Radius	Includes	Battery Capacity	Battery Incl.	Mfr. Model	Item No.
Cordless Shears						
14 ga.	5½"	Shear, (2) Batteries, Charger, Hex Wrench, Contractor Bag	4.0Ah	21RV47	DCS494M2	**49EM83**
14 ga.	5½"	Hex Wrench	4.0Ah	No	DCS494B	**49EM82**
18 ga.	5½"	Shear, (2) Batteries, Charger, Hex Wrench, Contractor Bag	4.0Ah	21RV47	DCS491M2	**49EM99**
18 ga.	5½"	Hex Wrench	4.0Ah	No	DCS491B	**49EM98**
18 ga.	1"	Hex Wrench	4.0Ah	No	DCS496B	**49EN01**

No Load Strokes/Minute	Cutting Cap. (in.)	Amps @ 120V	Mfr. Model	Item No.
Fiber Cement Shears				
0 to 2500	½	6.5	DCS498B	**453U22**

Cordless Concrete Vibrators



No. 49EM96

L	No Load RPM	Battery Incl.	Battery Capacity	Mfr. Model	Item No.
48"	14,000 VPM	21RV47	4Ah	DCE531M1	**49EM97**
48"	1400	No	4Ah	DCE531B	**49EM96**

Vacuums

- HEPA wet/dry washable filter
- On-board crevice and wide nozzle attachments
- Includes wet/dry HEPA filter for efficient and versatile clean-up



No. 34D626

Description	Battery Included	Battery Capacity	Mfr. Model	Item No.
Handheld Vacuums				
0.5 gal.	No	4.0Ah	DCV517B	**49EM75**
Cordless Vacuums				
0.5 gal., Includes: (1) DCB204 Battery, (1) DCB115 Charger	21RV47	4.0Ah	DCV517M1	**49EM76**
Wet/Dry Vacuums				
2-gal., HEPA Filter	No	—	DCV580H	**34D626**
Cordless/Corded, 2-gal., HEPA Filter	No	—	DCV581H	**34D627**

Worklights

Portable lights are adjustable and made with durable, lightweight materials.



No. 492P10

Description	Lumens	Battery Included/ Bare Tool	Mfr. Model	Item No.
LED Rechargeable Worklight	160	Bare Tool	DCL044	**49AX98**
LED Pivoting Head Worklight	110	Bare Tool	DCL040	**11A159**
LED Handheld Worklight	250 to 500	Bare Tool	DCL050	**30RV91**
LED Handheld Area Worklight	1500	Bare Tool	DCL060	**31AC55**
LED Spotlight	1000/90	Bare Tool	DCL043	**38XU32**
LED Cordless Job Site Light	3000	Battery Included	DCL079R1	**423K72**
LED Cordless Job Site Light	3000	Bare Tool	DCL079B	**423K73**
LED Cordless Job Site Light	5000	Bare Tool	DCL074	**492P10**

Blowers

- Jobsite blowers have 3-speed selector switch and trigger lock-on



No. 39RV82

Description	Battery Included	Mfr. Model	Item No.
Jobsite Blowers	Yes	DCE100M1	**39RV82**
Jobsite Blowers	Bare Tool	DCE100B	**39RW11**

Cordless Jobsite Fan

- Variable speeds
- No oscillating



Voltage	Air Flow	H	W	Item No.
20.0	500 cfm	17"	12"	**54JJ33**

Jobsite Radios

- Durable role cage protects unit on the jobsite
- Operate on battery or AC power



No. 48XP95

Description	Battery Included	Battery Capacity	Mfr. Model	Item No.
Radio, AC/DC Power	No	3.0Ah or 1.5Ah	DCR018	**25DU78**
Radio/Charger	No	3.0Ah	DCR015	**21RL65**
Bluetooth Radio Adaptor	No	—	DCR002	**33TD01**
Jobsite Bluetooth Speaker	No	1.5Ah	DCR006	**36WH85**
FLEXVOLT™ Jobsite Charger Radio	No	—	DCR025	**48XP95**

20V MAX LITHIUM ION

DEWALT

Cordless Cable Cutters

Feature bright LED light, field serviceable/replaceable cutting blade, and inline Forward/Reverse button. Include shoulder strap. No. 49EM87 includes cable cutting tool, battery, charger, and hang hook.



Cutting Cap./Material	Battery Incl.	Battery Capacity	Mfr. Model	Item No.
750 MCM Copper, 1000 MCM Aluminum	21RV46	2.0Ah	DCE150D1	49EM87
	No	2.0Ah	DCE150B	49EM86
Replacement Blade, For Use With Mfr. No. DCE155			DCE1551	54JJ34

20V MAX LITHIUM ION

DEWALT

Copper Press Tools



Press ½" to 4" copper pipe with the 360° pivoting head. On-board diagnostics indicate battery life, successful crimp, service needed, and operating temperature range. Crimp Connect™ reporting technology provides detailed reports of work accomplished. Bright LED light illuminates work area.

Crimping Force	Includes	Battery Capacity	Mfr. Model	Item No.
Cordless Press Tool with Jaws				
4 tons	(2) Batteries, Charger, Shoulder Strap, (6) press jaws sizes ½ in., ¾ in., 1 in., 1 ¼ in., 1 ½ in., 2 in, Kit Box	4.0Ah	DCE200M2K	49EM85
Cordless Press Tool Kit				
4 tons	(2) Batteries, Charger, Shoulder Strap	4.0Ah	DCE200M2	49EM84

20V MAX LITHIUM ION

DEWALT

Cable Strippers

Brushless cable stripper cleanly strips up to 4" without an exposed knife. Quickly strips #6 AWG to 750 MCM Cu and 900 MCM Al. This kit includes a 20V MAX* XR® battery (2.0 AH), a charger, and 20 quick-release bushings.



Cable Material	Cable Type	Battery Incl.	Battery Capacity	Item No.
Copper, Aluminum	THHN/XHHW	No	—	54DD24
		Mfr. No. DCB203	2.0Ah	54DD25

20V MAX LITHIUM ION

DEWALT

Crimping Tools

Crimp Connect™ software reports of date, time, force, and successfully completed cycles. Include a bright LED light, attachment points, and a shoulder strap.



Crimping Force	Includes	Battery Capacity	Mfr. Model	Item No.
Dieless Cable Crimping Tool Kit				
6 tons	(2) 4 Ah Li-Ion batteries (DCB204), (1) Charger (DCE115), (1) Shoulder Strap, (1) Kit Box	4.0 Ah	DCE350M2	49EM89
Died Cable Crimping Tool Kit				
12 tons	(2) 4 Ah Li-Ion batteries (DCB204), (1) Charger (DCE115), (1) Shoulder Strap, (1) Kit Box	4.0 Ah	DCE300M2	49EM88

20V MAX LITHIUM ION

DEWALT

Threaded Rod Cutter



Features 4-sided, rotatable, cutting die. It doesn't create chips or sparks while cutting, providing a burr-free cut. Efficient speed achieves up to 350 ⅜" cuts on one battery charge. Includes a bright LED work light, a Forward/Revers/Lock Off switch, and a hang hook.

Cutting Cap./ Material	Includes	Battery Incl.	Battery Capacity	Item No.
¼", ⅜", ½" Steel	Cutter Wrench, Hang Hook, 4-Sided Cutter Head	No	—	39RV88
	Battery, Charger, (2) 4-Sided Cutting Dies, Cutting Die Adjustment Wrench, Kit Bag	21RV46	2.0Ah	39RW27

20V MAX LITHIUM ION

DEWALT

PEX Expander



Expand ⅜" to 1" cold expansion PEX. Includes dual-sided hang and belt hooks plus LED work light. Lithium-ion battery.

For Use With	Includes	Battery Capacity	Item No.
Pipe ½" to 1"	⅜" to 1" Expansion Heads, Grease, Kit Box	—	54JK19
	(2) Battery Pack, ⅜", ½", 1" Expansion Heads, Grease, Kit Box, Charger	2.0Ah	54JK18

20V MAX LITHIUM ION

DEWALT

Drain Snake



Operating Speed	Cable Size	Battery Included/ Bare Tool	Battery Capacity	Mfr. Model	Item No.
0 to 620 rpm	5/16" x 25 ft.	Battery Included	2.0Ah	DCD200D1	437U49
0 to 620 rpm	5/16" x 25 ft.	Bare Tool	—	DCD200B	437U50

18V

DEWALT

Chargers & Adapters

- Adapters allow 20V battery to be used with an 18V tool



Input Voltage	For Use With	Mfr. Model	Item No.
Battery Chargers - Dual Port			
120VAC	DEWALT® 12V MAX, 20V Max and 60V MAX Li-Ion Batteries	DCB103	24T872
Vehicle Battery Charger			
12VDC	DEWALT® 7.2 to 18.0V NiCd and Li-Ion Batteries	DC9319	2VDH9
Battery Adapters			
—	DEWALT® 18V Tools	DCA1820	39UE92

DEWALT

12V MAX* Tool Advantages

- Compact and lightweight design
- Deliver fast speed and long runtime
- Superior ergonomics allow tool to stand on flat surface

12V MAX LITHIUM ION

**Maximum initial battery voltage (measured without a workload) is 12 volts. Nominal voltage is 10.8.*

12V MAX

DEWALT

Batteries & Chargers



No. 30RV76

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.	Pkg. Qty.
12V MAX Batteries				
Li-Ion	2.0Ah	DCB127-2	**30RV76**	2

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Chargers - Single Port			
120VAC	DEWALT® 12.0 to 20.0V Max Li-Ion Batteries, 492P05	DCB115	**11A157**

12V MAX

DEWALT

Combo Kits



No. 24T874

- 3/8" Drill/Driver, 2-speed, 189 UWO
- 1/4" Hex Impact Driver, 0-3400 blows per min.
- Includes 2 batteries, charger, and contractor bag



No. 6CXN9

- 3/8" Drill/Driver, 2-speed, 189 UWO
- Reciprocating Saw, 9/16" stroke
- Includes 2 batteries, charger, and contractor bag

No. of Tools	Drill	Impact Driver	Screwdriver	Reciprocating Saw	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
1.5Ah Combo Kits										
2	6CXN2			24T873		(2) 6CXN0	11A157	Contractor Bag	DCK212S2	**24T874**
2	6CXN2	6CXN4				(2) 6CXN0	11A157	Contractor Bag	DCK211S2	**6CXN9**
2		6CXN4	6CXN5			(2) 6CXN0	11A157	Contractor Bag	DCK210S2	**6CXN8**
4	6CXN2	6CXN4		24T873	6CXN1	(2) 6CXN0	11A157	Contractor Bag	DCK413S2	**24T876**

12V MAX

DEWALT

Drill/Drivers & Screwdrivers



No. 6CXN2

Chuck Size	No Load RPM	Max. Power	Battery Included	Battery Capacity	Mfr. Model	Item No.
Drill/Drivers						
3/8"	0 to 400/0 to 1500	189UWO	(2) 6CXN0	1.3Ah	DCD710S2	**6CXN2**
3/8"	0 to 400/0 to 1500	189UWO	No	None	DCD710B	**39UF04**
Screwdrivers						
1/4"	0 to 1050	160UWO	(2) 6CXN0	1.3Ah	DCF610S2	**6CXN5**
1/4"	0 to 1050	160UWO	No	1.5Ah	DCF610B	**39UE96**

12V MAX

DEWALT

Impact Drivers & Wrenches



Impact Driver No. 6CXN4



Impact Wrench No. 6CXN3

Drive Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Impact Drivers							
1/4"	0 to 2450	0 to 3400	950 in.-lb.	(2) 6CXN0	1.3Ah	DCF815S2	**6CXN4**
Impact Wrenches							
3/8"	0 to 2450	0 to 3400	100 ft.-lb.	(2) 6CXN0	1.3Ah	DCF813S2	**6CXN3**

12V MAX

DEWALT

Reciprocating Saw



Length of Stroke	Strokes per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
9/16"	0 to 27000 to 2700	6CXN0	5.0Ah	DCS310S1	**24T873**

12V MAX

DEWALT

Lights & Radios


No. 6CXN1



No. 21RL65

Description	Battery Included	Battery Capacity	Mfr. Model	Item No.
Lights				
LED Cordless Flashlight	No	—	DCL510	**6CXN1**
Jobsite Radios				
Radio/Charger	No	3.0Ah	DCR015	**21RL65**
Radio, AC/DC Power	No	3.0Ah or 1.5Ah	DCR018	**25DU78**


No. 6CXN6


No. 6CXN7

12V MAX

DEWALT

Inspection Cameras & IR Thermometer

- Inspection cameras feature 3" removable wireless screen

Description	Camera Dia. (in.)	Camera Type	Mfr. Model	Item No.
Inspection Cameras				
Removable Wireless Display, Includes Battery and Charger	5.8mm	640 x 480 NTSC	DCT412S1	**23PC99**
	9 mm	640 x 480 NTSC	DCT411S1	**14H387**
	17 mm	640 x 480 NTSC	DCT410S1	**6CXN6**
IR Thermometer				
Temp. Range: -20 to 932°F; 12:1 Distance to Spot Ratio			DCT414S1	**6CXN7**



Batteries & Charger



No. 55JL77

MX FUEL™ BATTERIES

- REDLITHIUM Intelligence optimizes battery and tool performance
- Fuel gauge
- Thick rubber overmold

Power large Milwaukee MX FUEL tools such as breaker hammers and core drills.

MX FUEL™ CHARGER

- Charges all MX FUEL battery packs
- Onboard indicator

Battery Capacity	Mfr. Model	Item No.
Battery Pack		
3.0 Ah	MXFCP203	**55JL77**
6.0 Ah	MXFXC406	**55JL75**

Charger Input Voltage	No. of Ports	Mfr. Model	Item No.
Battery Charger			
120V AC	1	MXFC	**55JL74**

Job Site Light



- Adjustable light heads
- Motorized mast
- Wheeled base
- Weighs 110 lb.
- ONE-KEY compatible

Fitted with 8" all-terrain wheels for transport and positioning. It includes an MX FUEL battery for a long runtime.

Lamp Type	Lumens	Focus	Light Output Mode	Lamp Life	Max. Height	Item No.
LED	27,000 lm	Fixed	High / Medium / Low	50,000 hr	120 in	**55JL66**

Handheld Concrete Saw



No. 55JL70

- Instant start
- Uses 12" or 14" blades
- Onboard water connection
- ONE-KEY compatible

Saw cart supports the saw to reduce user strain, positions the saw for consistent cuts, and provides space to hold a water tank for wet cutting operations.

Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
Concrete Saw						
14 in	Wet/Dry	5 in	5,350 RPM	(1) Bare Tool, (1) Battery, (1) Charger	6 Ah	**55JL70**
Cut-Off Saw Cart						
Gravity Feed Water Tank, M18 Tank Adapter Bracket						**55JL71**

Breaker Hammer



No. 55JL72

- Weighs 63.9 lb.
- ONE-KEY compatible

Lowest vibration and lightest weight in class. Brushless motor. The breaker cart holds the hammer so it can be rolled rather than carried between locations.

Impact Energy	Blows per Minute	Amps	Handle Type	Includes	Item No.
Breaker Hammer					
50.0 ft-lb	1250	6.0 A	T-Handle	(3) Chisels, Charger, MX FUEL Breaker, XC406 Battery	**55JL72**
Breaker Cart					
Overall Length (In.) 19 3/8 in					**55JL73**

Drain Cleaning Machine



No. 55JL80

- 200 ft. capability in 3" to 8" dia. pipe
- Fully enclosed drum
- CABLE-DRIVE automatic feed and retract
- RAPID-STOP prevents cable binding
- ONE-KEY compatible

Brushless motor. Drum is fully enclosed to contain mess. Drain Cleaning Machine No. 55JL80 has POWERTREDZ lift assist that directs battery power to the treads to ease transport of the machine up and down stairs or in and out of service vehicles with just one person.

Drain Line I.D. Size Range	Max. Run	Operating Speed	Maximum Drum Capacity	Includes	Features	Item No.
Drain Cleaning Machine						
2 in to 8 in	200 ft	200 RPM	100 ft of ¾ in Cable	Charger, CP203 Battery Pack	Integrated Drum Brake	**55JL79**
					Integrated Drum Brake, POWERTREDZ(TM) Lift Assist	**55JL80**

Item	Material	Size	Item No.
Accessories			
Drain Cleaning Cable	Galvanized Corrugated Tube with PVC Covering	¾ in x 6½ ft	**55JL78**
Load Wheel	Steel	15 in W x 15 in D x 7 in H	**55JL81**

Coring Drills

- Core up to 6" in reinforced concrete
- AUTOSTOP prevents over-rotation if the drill binds
- ONE-KEY compatible

AutoStop technology and patented clutch will deliver a safer handheld coring experience by preventing over rotation when the core is bound up. Performance gauge for torque monitoring and a level for making straight cores. The drill stand speeds setups, positions drills for consistent cuts, and eases transport.



No. 55JL67

Amps	No Load RPM	Core Bit Cap Concrete	Overall Height	Base Size	Column Dia.	Includes	Item No.
Coring Drill Kit							
3.0 A	1550	6 in	9 19/64 in	9 13/64 in x 18 in	2 in	Bit Adapter, BMC, Hose Quick Connect, MX FUEL Charger, MX FUEL CP Battery Pack, Trigger Lock	**55JL67**
3.0 A, 6.0 A	1550	6 in	36 51/64 in	9 13/64 in x 18 in	2 in	MX FUEL CP Battery Pack, MX FUEL XC Battery Pack, MX FUEL Charger, BMC, Compact Core Drill Stand with Wheels, Bit Adapter, Trigger Lock, Hose Quick Connect	**55JL68**
Coring Drill Stand							
Overall Height 36 51/64 in						Carrier, Feed Handle, Wheels	**55JL69**



Batteries & Chargers

- REDLITHIUM™ batteries offer 40% more run time, 20% more power and 50% more recharges than conventional Li-Ion Batteries
- Operate down to 0°F for superior cold weather performance
- Cooler operation for superior hot weather performance
- Fade-free power with no memory effect

Battery Capacity	Mfr. Model	Item No.	Pkg. Qty.
M18™ Batteries			
1.5Ah	48-11-1815	**2XKZ3**	1
1.5Ah	48-11-1811	**38D761**	2
2.0Ah	48-11-1820	**38D765**	1
3.0Ah	48-11-1828	**2PYZ8**	1
3.0Ah	48-11-1822	**38D762**	2
4.0Ah	48-11-1840	**38D766**	1
M18™ Batteries for No. 52WR81			
5.0Ah	48-11-1850	**35GJ99**	1
M18™ Batteries			
5.0Ah	48-11-1852	**38XJ03**	2
5.0Ah	48-11-1851	**451N46**	10
6.0Ah	48-11-1860	**45LD78**	1
M18™ Battery for Nos. 338AP3, 484X11, 484X12 and 643F80			
9.0Ah	48-11-1890	**45KM67**	1
M18™ Batteries			
12.0Ah	48-11-1812	**481Z42**	1
M18™ High Output Batteries			
6.0Ah	48-11-1865	**481Z44**	1
6.0Ah	48-11-1862	**481Z45**	1
M18™ Battery and Charger Kit			
3.0Ah	48-59-1813	**38XJ01**	1
M18™ Battery and Charger Kit for No. 52WR81			
5.0Ah	48-59-1850	**38XH99**	1
M18™ Battery and Charger Kit			
9.0Ah	48-59-1890	**48UT18**	1
12.0Ah	48-59-1200	**481Z43**	1

Description	For Use With	Mfr. Model	Item No.
M18™ Battery Chargers			
120VAC, Accepts all M18™ and M12™ Battery Packs	Milwaukee® M12™ and M18™ Batteries	48-59-1812	**23Y581**
M18™ Battery Charger for No. 52WR81			
120VAC, Accepts All M12 and M18 Battery Packs, Sequential Charging Automatically Charges Second Inserted Pack Once First Pack is Fully Charged, Indicates When Battery Reaches 80% Charge	Milwaukee® M12™ and M18™ Batteries	48-59-1808	**45LD79**
M18™ Battery Chargers - 6-Port			
120VAC, Charges (3) Batteries Simultaneously, Convenient Carry Handle, Pass-Thru Plug, Integrated Hang Holes	Milwaukee® M12™ and M18™ Batteries	48-59-1807	**32NN05**
120VAC, Compatibility With All M18 Battery Packs, Accepts Up To Six M18 Battery Packs At One Time, Charges Batteries Sequentially, Wall Mountable, Pass Through Plug	Milwaukee® M18™ Batteries	48-59-1806	**40K996**

M18 FUEL
DRIVEN TO OUTPERFORM.™

M18 FUEL™ Brushless Tool Advantages

- M18™ cordless system offers more than 125 performance-driven fully compatible solutions
- Battery fuel gauge displays remaining charge
- M18 FUEL™ brushless tools feature exclusive POWERSTATE™ brushless motors, REDLITHIUM™ battery technology, and REDLINK PLUS™ advanced electronics for superior power and run time



For the latest new items and HOT BUYS on Milwaukee power tools and accessories, go to grainger.com/milwaukee



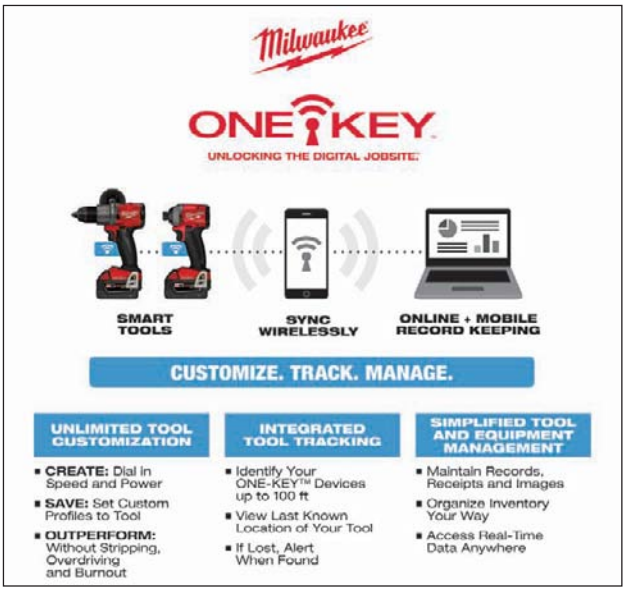




M18

Combo Kits

No. of Tools	Hammer Drill	Drill	Impact Driver	Impact Wrench	Circular Saw	Reciprocating Saw	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
M18™ 4.0Ah Combo Kits												
2	2902-20		2850-20					(2) 38D766		Contractor Bag	2893-22	**488D96**
M18™ 3.0Ah Combo Kits												
2	5GUW3					6FKP4		(2) 2PYZ8	23Y581	Contractor Bag	2695-22	**38W629**
2	22UT51		39RY17					(2) 2PYZ8	23Y581	Contractor Bag	2697-22	**5GUW5**
4	22UT51				5GUX5	5GUX8	4PKW2	(2) 2PYZ8	23Y581	Contractor Bag	2694-24	**4LER2**
4	22UT51		39RY17			5GUX8	4PKW2	(2) 2PYZ8	23Y581	Contractor Bag	2696-24	**12E733**
4	22UT51		39RY17			6FKP4	4PKW2	(2) 2PYZ8	23Y581	Contractor Bag	2695-24	**12E734**
6	22UT51		39RY17		5GUX5	32NN09	4PKW2	(2) 2PYZ8	23Y581	(1) Contractor Bags	2696-26	**23Y584**
M18™ 2.0Ah Combo Kits												
2				39EP11			4PKW2	(2) 38D765	23Y581	Contractor Bag	2895-22CT	**39EP05**
2		2801-20	2850-20					(2) 38D765		Contractor Bag	2892-22CT	**488D94**
M18™ 1.5Ah Combo Kits												
2		22UT49	39RY17					(2) 2XKZ3	23Y581	Contractor Bag	2691-22	**2PYZ2**
3		22UT49		22UT59			4PKW2	(2) 2XKZ3	23Y581	Contractor Bag	2691-23	**39RY18**
M18 FUEL™ Brushless 5.0Ah Combo Kits												
2	483A47		481H96					38XJ03	23Y581		2997-22	**481H99**
2	34G851		5WFT5					38XJ03	23Y581	Carrying Case	2999-22	**481J01**
3	483A47		481H96			22MH49		38XJ03	23Y581	Contractor Bag	2997-23	**481J02**
5	483A47		481H96		45L182	22MH49	4PKW2	35GJ99	23Y581	Contractor Bag	2997-25	**481J03**
7	483A47		481H96	53KJ94	45L182	22MH49	4PKW2	38XJ03	23Y581	Contractor Bag	2997-27	**481J04**



One-Key™ Bluetooth® Tool and Equipment Tracker

Compact Tick™ tracker is 2⅛" x 1⅞" and survives the abuse of rough jobsite environments. It attaches with glue, screw, zip tie, or rivet and resists weather, water, dust, and impact. Download the Milwaukee® app and start tracking. With 100 ft. signal range.

Voltage	Battery Capacity	Includes	Mfr. Model	Item No.
3.0V	0.24Ah	Coin Cell Battery	48-21-2000	**53GK35**
3.0V	0.24Ah	(4) Coin Cell Batteries	48-21-2004	**53GK36**
3.0V	0.24Ah	(10) Coin Cell Batteries	48-21-2010	**53GK37**
3.0V	0.24Ah	(50) Coin Cell Batteries	48-21-2050	**53GK38**



No. 53GK35



No. 31MJ82

Right Angle Drills

M18

Chuck Size	No Load RPM	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18 FUEL™ Brushless Hole Hawg®						
½"	0 to 1200	650 ft.-lb.	(2) 35GJ99	5.0Ah	2707-22	**31MJ82**
½"	0 to 1200	650 ft.-lb.	No	—	2707-20	**31MJ81**
7/16" Hex Quick Lock	0 to 1200	650 ft.-lb.	(2) 45KM67	9.0Ah	2708-22HD	**48UT13**
7/16" Hex Quick Lock	0 to 1200	650 ft.-lb.	(2) 35GJ99	5.0Ah	2708-22	**31MJ84**
7/16" Hex Quick Lock	0 to 1200	650 ft.-lb.	No	—	2708-20	**31MJ83**
M18™						
⅜"	0 to 1500	100 in.-lb.	(1) 2XKZ3	1.4Ah	2615-21CT	**6AWL3**
⅜"	0 to 1500	125 in.-lb.	(1) 2PYZ8	2.8Ah	2615-21	**6AWL2**
⅜"	0 to 1500	125 in.-lb.	No	—	2615-20	**6AWL4**
M18™ Mud Mixer						
½"	550	—	No	5.0 Ah	2810-20	**419J56**
½"	550	—	REDLITHIUM™	5.0 Ah	2810-22	**419J57**



No. 483A45



No. 22UT50

M18

Drill/Drivers & Hammer Drills

- M18 FUEL™ Brushless Drill/Drivers have powerful, long-lasting POWERSTATE™ brushless motor
- M18™ Drill/Drivers have compact 7¼" length and powerful 4-pole motor
- M18 FUEL™ Brushless Hammer Drills feature compact 7¾" length and powerful 4-pole frameless motor
- Chuck size: ½"
- For kit contents including batteries, chargers, and accessories, see Grainger.com®

No Load RPM	Max. Torque	Battery Capacity	Mfr. Model	Item No.
M18 Fuel™ Brushless				
Cordless Drill/Driver				
0 to 550/0 to 2000	1200 in.-lb.	5.0Ah	2803-20	**483A45**
Cordless Hammer Drill				
0 to 2000	1200 in.-lb.	5.0Ah	2804-22	**481H95**
M18 Fuel™ Brushless w/REDLINK PLUS™				
Cordless Drill/Driver Kit				
0 to 550/0 to 2000	1200 in.-lb.	5.0Ah	2803-22	**483A46**
Cordless Hammer Drill/Driver				
0 to 550/0 to 2000	1200 in.-lb.	5.0Ah	2804-20	**483A47**
M18™				
Cordless Drill/Driver				
0 to 400/0 to 1800	500 in.-lb.	—	2606-20	**22UT49**
0 to 1800	500 in.-lb.	2.0Ah	2801-20	**488D87**
Cordless Drill/Driver Kit				
0 to 400/0 to 1800	500 in.-lb.	1.5Ah	2606-22CT	**22UT50**
0 to 1800	500 in.-lb.	2.0Ah	2801-22CT	**488D88**
0 to 2000	1200 in.-lb.	5.0Ah	2805-22	**492N13**
Cordless Hammer Drill/Driver				
0 to 450/0 to 1800	500 in.-lb.	—	2607-20	**22UT51**
0 to 550/0 to 1800	725 in.-lb.	4.0Ah	2902-20	**488D91**
0 to 2000	1200 in.-lb.	5.0Ah	2806-20	**492N14**
Cordless Hammer Drill/Driver Kit				
0 to 450/0 to 1800	500 in.-lb.	1.5Ah	2607-22CT	**22UT52**
0 to 450/0 to 1800	500 in.-lb.	3.0Ah	2607-22	**22UT53**
0 to 550/0 to 1800	725 in.-lb.	4.0Ah	2902-22	**488D92**
Cordless Hammer Drill Kit				
0 to 2000	1200 in.-lb.	5.0Ah	2806-22	**492N15**

M18

Rotary Hammers

- M18 FUEL™ Rotary Hammers deliver corded speed and power; all day work on one charge
- Dedicated dust collection systems maximize operator safety

Note: For Rotary Hammer Dust Collection Systems, go to Grainger.com®



No. 32NT37

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.	
M18 FUEL™ Brushless 1 9/16" SDS Max L Shape						
0 to 450	0 to 3000	(2) 45KM67	9.0Ah	2717-22HD	**48UT40**	
0 to 450	0 to 3000	No	—	2717-20	**48UT38**	
M18 FUEL™ Brushless 1⅛" SDS Plus L-Shape						
0 to 1350	0 to 5000	(2) 35GJ99	5.0Ah	2715-22DE	**32NT32**	*
0 to 1350	0 to 5000	(2) 35GJ99	4.0Ah	2715-22	**32NT33**	
0 to 1350	0 to 5000	No	—	2715-20	**32NT34**	
M18 FUEL™ Brushless 1" SDS Plus L-Shape						
0 to 1400	0 to 4900	(2) 35GJ99	5.0Ah	2712-22DE	**32NT36**	*
0 to 1400	0 to 4900	(2) 35GJ99	5.0Ah	2712-22	**32NT37**	
0 to 1400	0 to 4900	No	—	2712-20	**32NT38**	
M18™ FUEL Brushless 1" D-Handle						
0 to 1500	0 to 4400	(2) 35GJ99	5.0Ah	2713-22	**48UT42**	
0 to 1500	0 to 4400	No	—	2713-20	**48UT41**	
M18™ ⅞" SDS Plus L-Shape						
0 to 1400	0 to 4800	(2) 2PYZ8	3.0Ah	2605-22	**6PED4**	
0 to 1400	0 to 4800	No	3.0Ah	2605-20	**14P353**	
M18™ ⅝" SDS Plus L-Shape						
0 to 1300	0 to 7000	(2) 2PYZ8	3.0Ah	2612-22	**22UT78**	
0 to 1300	0 to 7000	2PYZ8	3.0Ah	2612-21	**22UT77**	
0 to 1300	0 to 7000	No	—	2612-20	**22UT76**	

**** Include Dust Extractor.***

M18 Milwaukee

Impact Wrenches

- M18 FUEL™ Brushless Impact Wrenches provide greater control over output speed and power through 4-mode DRIVE CONTROL™


No. 44YZ18

Drive Size	Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18 FUEL™ Brushless							
3/8"	2500	3200	220 ft.-lb.	(2) 38D765	2.0Ah	2754-22CT	**39EN99**
3/8"	2500	3200	220 ft.-lb.	(2) 35GJ99	5.0Ah	2754-22	**39EN96**
3/8"	2500	3200	220 ft.-lb.	No	—	2754-20	**39EP11**
1/2"	1700	2100	1400 ft.-lb.	No	5.0Ah	2767-20	**408L69**
1/2"	1700	2100	1400 ft.-lb.	(2) 35GJ99	5.0Ah	2767-22	**408L70**
1/2"	1800	2400	750/1100 ft.-lb.	(2) 38XH99	5.0Ah	2766-22	**408L68**
1/2"	1800	2400	750 ft.-lb.	No	5.0Ah	2766-20	**408L67**
1/2"	2500	3200	220 ft.-lb.	(2) 35GJ99	5.0Ah	2755-22	**39EP09**
1/2"	2500	3200	220 ft.-lb.	No	—	2755-20	**39EN98**
w/DRIVE CONTROL™							
3/8"	2300	3000	600 ft.-lb.	38D765	2.0Ah	2852-22CT	**483P96**
3/8"	2300	3000	600 ft.-lb.	No	5.0Ah	2852-20	**483P94**
3/8"	2500	3000	600 ft.-lb.	35GJ99	5.0Ah	2852-22	**483P95**
w/Friction Ring							
1/2"	2500	3200	220 ft.-lb.	(2) 35GJ99	5.0Ah	2755B-22	**39EP13**
w/ONE-KEY™, REDLINK PLUS™							
3/8"	2500	3200	210 ft.-lb.	(2) 38D765	2.0Ah	2758-22CT	**44YY78**
3/8"	2500	3200	210 ft.-lb.	(2) 35GJ99	5.0Ah	2758-22	**44YZ18**
3/8"	2500	3200	210 ft.-lb.	No	—	2758-20	**44YY88**
1/2"	2500	3200	220 ft.-lb.	(2) 35GJ99	5.0Ah	2759B-22	**44YZ04**
1/2"	2500	3200	220 ft.-lb.	No	—	2759-20	**44YY80**
w/ONE-KEY™, REDLINK PLUS™, w/Friction Ring							
1/2"	2500	3200	220 ft.-lb.	No	—	2759B-20	**44YY85**
w/REDLINK™							
1/2"	2400	3000	600 ft.-lb.	(2) 35GJ99	5.0Ah	2860-22	**53KJ93**
1/2"	2400	3000	600 ft.-lb.	(2) 35GJ99	5.0Ah	2861-22	**53KJ95**
1/2"	2400	3000	600 ft.-lb.	No	—	2860-20	**53KJ92**
1/2"	2400	3000	600 ft.-lb.	No	—	2861-20	**53KJ94**
M18™							
3/8"	2450	3350	167 ft.-lb.	(2) 2XKZ3	1.5Ah	2658-22CT	**22UT60**
3/8"	2450	3350	167 ft.-lb.	(2) 2PYZ8	3.0Ah	2658-22	**22UT61**
3/8"	2450	3350	167 ft.-lb.	No	—	2658-20	**22UT59**
1/2"	2450	3350	183 ft.-lb.	(2) 2PYZ8	1.5Ah or 3.0Ah	2659-22	**22UT63**
1/2"	2450	3350	183 ft.-lb.	No	—	2659-20	**22UT62**
Right Angle							
3/8"	2250	3400	60 ft.-lb.	2XKZ3	1.5Ah	2668-21CT	**32NT23**
3/8"	2250	3400	60 ft.-lb.	(2) 2PYZ8	3.0Ah	2668-22	**32NT24**
3/8"	2250	3400	60 ft.-lb.	No	—	2668-20	**32NT22**
Right Angle, w/REDLINK PLUS™,							
1/2"	2500	3200	220 ft.-lb.	—	—	2755B-20	**419J64**
w/REDLINK PLUS™							
1/2"	1750	2100	1400 ft.-lb.	No	5.0Ah	2863-20	**423K57**
1/2"	1750	2100	1400 ft.-lb.	35GJ99	5.0Ah	2863-22	**423K58**
1/2"	1800	2400	1100 ft.-lb.	No	5.0Ah	2862-20	**423K55**
1/2"	1800	2400	1100 ft.-lb.	35GJ99	5.0Ah	2862-22	**423K56**
3/4"	1750	1500	1200 ft.-lb.	No	5.0Ah	2864-20	**423K59**
3/4"	1800	2400	1500 ft.-lb.	35GJ99	5.0Ah	2864-22	**423K60**

M18 Milwaukee

High Torque Impact Wrenches

- For kit contents including batteries, chargers, and accessories, see Grainger.com®


No. 5GUX4

Drive Size	Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Capacity	Battery Included	Mfr. Model	Item No.
M18 FUEL™ Brushless Kits							
7/16"	1900	2200	350 ft.-lb.	2.8Ah	(2) 2PYZ8	2665-22	**4LET6**
M18™							
7/16"	1900	2200	350 ft.-lb.	—	No	2665-20	**5GUX4**
1/2"	1900	2200	450 ft.-lb.	—	No	2662-20	**5GUX1**
1/2"	1900	2200	450 ft.-lb.	—	No	2663-20	**5GUX2**
3/4"	1900	2200	525 ft.-lb.	—	No	2664-20	**5GUX3**
M18™ Kits							
1/2"	1900	2200	450 ft.-lb.	3.0Ah	(2) 2PYZ8	2662-22	**4LET3**
1/2"	1900	2200	450 ft.-lb.	2.8Ah	(2) 2PYZ8	2663-22	**4LET4**
3/4"	1900	2200	525 ft.-lb.	3.0Ah	(2) 2PYZ8	2664-22	**4LET5**

M18 Milwaukee

Impact Drivers

- M18 FUEL™ Brushless Impact Drivers offer 4-mode DRIVE CONTROL™ for optimal speed and power control
- M18™ Impact Drivers offer 2-mode DRIVE CONTROL™ for optimal speed and power control
- M18 FUEL™ SURGE™ Brushless Hydraulic Impact Driver has 4-Mode DRIVE CONTROL™ for control over output speed and power for versatility
- Drive size: 1/4"


No. 488D93

Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Capacity	Battery Included	Mfr. Model	Item No.
M18 FUEL™ Brushless						
3600	4250	2000 in.-lb.	2.0Ah	38D762	2853-22CT	**481H97**
3600	4250	2000 in.-lb.	5.0Ah	38XJ03	2853-22	**481H98**
3600	4250	2000 in.-lb.	—	No	2853-20	**481H96**
w/SURGE™ Hydraulic						
3000	4000	450 in.-lb.	2.0Ah	(2) 38D765	2760-22CT	**49JV02**
3000	4000	450 in.-lb.	5.0Ah	(2) 35GJ99	2760-22	**49JV03**
3000	4000	450 in.-lb.	—	No	2760-20	**49JV01**
M18™						
2750	3350	1500 in.-lb.	1.5Ah	(2) 2XKZ3	2657-22CT	**22UT47**
2750	3450	1500 in.-lb.	3.0Ah	(2) 2PYZ8	2657-22	**22UT48**
2750	3450	1500 in.-lb.	—	No	2657-20	**22UT46**
Right Angle						
2250	3400	675 in.-lb.	1.5Ah	2XKZ3	2667-21CT	**32NT20**
2250	3400	675 in.-lb.	3.0Ah	(2) 2PYZ8	2667-22	**32NT21**
2250	3400	675 in.-lb.	—	No	2667-20	**32NT19**
3200	4000	1600 in.-lb.	2.0Ah	(2) 38D765	2850-22CT	**488D90**
3200	4000	1600 in.-lb.	—	No	2850-20	**488D89**
Right Angle,3 Speed						
3200	4000	1600 in.-lb.	—	No	2851-20	**488D93**
w/REDLINK™						
2750	3450	1500 in.-lb.	—	No	2656-20	**39RY17**

M18 Milwaukee

Magnetic Drill Kits

- 2000-lb. holding force
- Annual cutter capacity: 1 1/2"
- Twist bit capacity: 1/2"
- 2-speed gear box
- 5 1/8" motor head adjustment


No. 48UT16

Description	Battery Capacity	Battery Incl.	Item No.
Milwaukee M18™ Magnetic Drill Kits			
Magnetic Drill Kit, (2) Batteries, Charger, Magnetic Lubrication Tank, 1/2" Chuck Adapter, Chuck Key, (2) Telescoping Pilot Pins, Safety Strap, Carrying Case	9.0Ah	(2) 45KM67	**48UT16**
Milwaukee M18™ Lineman Magnetic Drill Kit			
Lineman Magnetic Drill Kit, (2) Batteries, (1) Charger, Magnetic Lubrication Tank, 1/2" Chuck Adapter, Chuck Key, (2) Telescoping Pilot Pins, Safety Strap, Carrying Case	9.0Ah	(2) 45KM67	**48UT17**

M18 Milwaukee

Knockout Tools

- Max. capacity mild steel: 10 ga. 4"
- Max. capacity stainless steel: 12 ga. 4"


No. 31AD88

Description	Battery Capacity	Battery Included	Mfr. Model	Item No.
FORCELOGIC™ 6-Ton Knockout Tool w/EXACT™ 1/2 to 2" Punches and Dies, Draw Stud & Quick Alignment	2.0 A/hr.	38D765	2677-21	**44ZL88**
FORCELOGIC™ 6-Ton Knockout Tool, Draw Stud & Quick Alignment	2.0 A/hr.	38D765	2677-20	**44ZL92**
FORCELOGIC™ 10-Ton Knockout Tool	3.0Ah	(2) 2PYZ8	2676-20	**31AD88**
FORCELOGIC™ 10-Ton Knockout Tool w/EXACT™ 1/2 to 2" Punches and Dies	3.0Ah	(2) 2PYZ8	2676-22	**31AD89**
FORCELOGIC™ 10-Ton Knockout Tool w/EXACT™ 1/2 to 4" Punches and Dies	3.0Ah	(2) 2PYZ8	2676-23	**31AD90**



M18 Milwaukee

Reciprocating Saws

- M18™ Sawzall features an innovative gear-protecting clutch for durability and counter-balance mechanism for reduced vibration
- M18™HACKZALL® has a compact design with an antivibration motor for one-handed use; 0 to 30000 to 3000 no load strokes per minute

Length of Stroke	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18 FUEL™ Brushless Sawzall® Reciprocationg Saws w/ONE KEY™, Redlink Plus™				
1⅛"	No	—	2721-20	**52WR78**
1⅛"	(2) 35GJ99	5.0Ah	2721-22	**52WR79**
M18 FUEL™ Brushless Sawzall® Reciprocating Saws				
1⅛"	(2) 35GJ99	5.0Ah	2720-22	**22MH51**
1⅛"	35GJ99	5.0Ah	2720-21	**22MH50**
1⅛"	No	—	2720-20	**22MH49**
M18™ Sawzall® Reciprocating Saws, w/Redlink				
1⅛"	(2) 2PYZ8	3.0Ah	2621-22	**32NN11**
1⅛"	2PYZ8	3.0Ah	2621-21	**32NN10**
1⅛"	No	—	2621-20	**32NN09**
M18 FUEL™ Brushless Super Sawzall® Reciprocating Saws				
1¼"	Mfr. No. 48-11-1812	12.0Ah	2722-21HD	**481Z40**
M18 FUEL™ Brushless Hackzall® Reciprocating Saws				
⅞"	No	—	2719-20	**419J60**
⅞"	No	5.0Ah	2719-21	**419J61**
M18™ Hackzall Reciprocating Saws				
¾"	2PYZ8	3.0Ah	2625-21	**4PKV6**
¾"	2XKZ3	1.5Ah	2625-21CT	**4PKV7**
¾"	No	—	2625-20	**6FKP4**

M18 Milwaukee

Circular Saws

- Metal-Cutting saws deliver fast cuts burr-free through EMT, sheet metal, angle iron, and other ferrous and nonferrous metals



Blade Dia.	No Load RPM	Cutting Depth @ 90°	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18™ Circular Saws						
6½"	3500	2⅛"	(2) 2PYZ8	3.0Ah	2630-22	**2PYY7**
			No	—	2630-20	**5GUX5**
M18 FUEL™ Brushless Circular Saws						
6½"	5000	2⅜6"	(2) 35GJ99	4.0Ah	2730-22	**45L184**
			35GJ99	5.0Ah	2730-21	**45L183**
			No	4.0Ah	2730-20	**45L182**
M18 FUEL Brushless Metal Cuting Circular Saws						
5⅜"	3900	2"	No	—	2782-20	**53KJ96**
5⅞"			(2) 35GJ99	5.0Ah	2782-22	**53KJ97**

M18 Milwaukee

Miter Saw

POWERSTATE™ brushless motor provides more power, run-time, and longer life. Features cam-locking miter system with adjustable stainless steel miter detent plate and 11 detent locations, dual bevel and easy access bevel lever, and shadow cut line indicator for quickly lining up cuts.



Bevel Capacity	Blade Dia.	Miter Capacity	No Load RPM	Battery Capacity	Battery Included	Mfr. Model	Item No.
M18 FUEL™ Miter Saws							
0° to 48° Left and Right	10"	50° Left, 60° Right	4000	9.0Ah	45KM67	2734-21HD	**49JU89**
				—	No	2734-20	**49JU88**
M18™							
0° to 48° Left and Right	7¼"	0° to 48° Left and Right	5000	—	No	2733-20	**419J62**
				5.0Ah	35GJ99	2733-21	**419J63**

M18 Milwaukee

Table Saw

- Table surface w/ extension: 22½" x 20"
- Battery capacity: 12.0Ah

M18 FLEX™ brushless table saw includes REDLITHIUM™ high-output battery, rapid charger, blade, guard, riving knife, push stick, miter gauge, and wrench.



Battery Incl.	Blade Dia.	Arbor Size	No Load RPM	Blade Tilt	Mfr. Model	Item No.
Mfr. No. 48-11-1812	8¼"	⅝"	5800	0° to 45°	2736-21HD	**481Z36**

M18 Milwaukee

Jig Saw

Features On/Off cut line and LED light. Includes dust collection tube, shoe guard, anti-splinter guard, dust cover, blade, and hex wrench.



Length of Stroke	Bevels To	Cutting Action	Speed Control	Battery Pack Replacement	Item No.
1"	45°	Orbital	Variable	35GJ99	**489P13**

M18 Milwaukee

Band Saws

- M18™ saws have compact 18" length for cutting in tight spaces



Surface ft. per Min. High	Round Cap.	Battery Included	Battery Capacity	Mfr. Model	Item No.
380	5"	(2) 35GJ99	(2) 5.0Ah	2729-22	**31MJ80**
380	5"	35GJ99	5.0Ah	2729-21	**31MJ79**
380	5"	No	4.0Ah	2729-20	**31MJ78**

M18 Milwaukee

Grinder/Cut-Off Tools

- M18 FUEL™ grinders deliver maximum sustained power for tough surface preparation, grinding, and cutting applications



Size	No Load RPM	Battery Included	Battery Capacity	Mfr. Model	Item No.	
M18 FUEL™ Brushless Angle Grinder						
—	6600	Mfr. No. 48-11-1812	12.0Ah	2785-21HD	**481Z38**	
—	6600	Mfr. No. 48-11-1812	12.0Ah	2785-22HD	**481Z39**	
M18 FUEL™ Brushless Grinder/Cut-Off Tools						
Slide Switch						
4½"	8500	(2) 35GJ99	5.0Ah	2781-22	**45L196**	
4½"	8500	35GJ99	5.0Ah	2781-21	**45L197**	
4½"	8500	No	4.0Ah	2781-20	**45L198**	
Paddle Switch						
4½"	8500	(2) 35GJ99	5.0Ah	2780-22	**45L199**	
4½"	8500	35GJ99	5.0Ah	2780-21	**45L201**	
4½"	8500	No	—	2780-20	**45L202**	
4½"	8500	(2) 35GJ99	—	2783-22	**45FD29**	*
4½"	8500	No	—	2783-20	**45FD30**	*
M18 FUEL™ Die Grinders						
—	20,000	No	—	2784-20	**53KJ98**	
—	20,000	(2) 35GJ99	5.0Ah	2784-22	**53KJ99**	
M18™ Grinder/Cut-Off Tools						
4½"	9000	(2) 2PYZ8	2.8Ah	2680-22	**4LER1**	
4½"	9000	No	—	2680-20	**5GUY2**	

** Feature Rapid-Stop braking.*

M18 Milwaukee

Vacuums



No. 2CDC6

- Includes washable wet/dry HEPA filter, on-board hose, crevice tool and wide nozzle

Air Flow	Tank Size	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18™ Wet/Dry Vacuum					
45 cfm	2 gal.	No	3.0	0880-20	**2CDC6**
M18™ Compact Vacuum					
40 cfm	0.30 gal.	No	—	0882-20	**52WR81**
M18 FUEL™ Brushless Backpack Vacuum					
57 cfm	1 gal.	No	9.0Ah	0885-20	**484X11**
57 cfm	1 gal.	Battery Included	9.0Ah	0885-21HD	**484X12**

M18 Milwaukee

Cordless Polisher Kits



No. 49EG81

M18 FUEL™ technology delivers power, performance, and run-time. 7" pad capacity. Designed with variable speed dial and trigger. Constant power technology. Able to complete a full size car on one charge.

Includes	No Load RPM	Battery Incl.	Battery Capacity	Item No.
(2) M18 5.0Ah REDLITHIUM™ Extended Capacity Batteries, 45LD79 M18 & M12™ Rapid Charger, Backing Pad, Screen Cover, Side Handle, Bail Handle with (2) Bolts	0 to 2200	(2) 35GJ99	5.0Ah	**49EG81**
Backing Pad, Screen Cover, Side Handle, Bail Handle with (2) Bolts		No	—	**49EG82**

M18 Milwaukee

Shears



No. 32NN13

- Innovative in-line wrist design provides more tool control
- Proprietary 360° tool-free rotating head allows use in tight spaces

Steel Capacity	Stainless Steel Capacity	Min. Radius	Battery Included	Battery Capacity	Mfr. Model	Item No.
14 ga.	16 ga.	7"	(2) 2PYZ8	3.0Ah	2636-22	**32NN15**
18 ga.	20 ga.	3"	(2) 2PYZ8	3.0Ah	2637-22	**32NN17**
18 ga.	20 ga.	6"	(2) 2PYZ8	3.0Ah	2635-22	**32NN13**
18 ga.	20 ga.	6"	No	—	2635-20	**32NN12**

M18 Milwaukee

PEX Expansion Tools



No. 6AWK4

- Expands ProPEX quickly and easily
- Auto-rotate mechanism delivers even PEX expansions

Capacity Tubing O.D.	Flare Type	Battery Included	Battery Capacity	Mfr. Model	Item No.
M18™ ProPEX® Expansion Tools					
⅜" to 1½"	ProPEX®	Battery Included	3.0Ah	2632-22XC	**38EY30**
⅜" to 1½"	ProPEX®	Bare Tool	No	2632-20	**6AWK4**
M18™ FORCE LOGIC™ Expansion Tools					
2" to 3"	—	Battery Included	9.0Ah	2633-22HD	**484X16**
PEX Press Tool Kit					
(2) M18™ REDLITHIUM Batteries, Pack, M18™, M12™ Multi-Voltage Charger, ½" Viega Pureflow Jaw, ¾" Viega Pure Flow Jaw, 1" Viega Pure flow Jaw, Carrying Case				2674-22P	**49EJ11**
38D765 M18 REDLITHIUM™ 2.0Ah Battery Pack, 23Y581 M18™ and M12™ Multi-Voltage Charger, ½" F1807 Crimp Jaw, ¾" F1807 Pex Crimp Jaw, 1" F1807 Pex Crimp Jaw				2674-22C	**49EJ10**

M18 Milwaukee

Orbital Sanders



- Size: 5"
- Oribt dia. 3/32"
- Orbits per min.: 12,000

M18™ random orbital sanders include quick-change, hook-and-loop sanding pad.

Includes	No Load RPM	Battery Incl.	Battery Capacity	Item No.
Dust Canister, Universal Hose Adapter, (2) 80 Grit Sandpaper	7000/12,000	No	3.0Ah	**483F35**
Dust Canister, Universal Hose Adapter, (2) 80 Grit Sandpaper, M18™ REDLITHIUM™ XC Battery, Multi-Voltage Charger, Contractor Bag		2PYZ8		**483F36**

M18 Milwaukee

Crimping Tools



No. 53RG08

- Crimping force: 6 tons

Force Logic™ crimpers feature PFM™ (Predictive Force Monitoring) which automatically modifies output based on connector, ensuring optimal pressure every time and fast, accurate crimps. POWERSTATE™ brushless motor delivers up to 4X longer life.

Includes	Item No.
M18™ 6-Ton Crimping Tools	
(2) Batteries (48-11-1820), (1) Charger (48-15-1812), (1) 6T Fixed BG Crimping Jaw (49-16 BDG3) , Carabineer, Utility Bucket Bag	**45FD41**
(2) Batteries (48-11-1820), (1) Charger (48-15-1812), (1) 6T Fixed O Crimping Jaw (48-16-00D3) , Carabineer, Utility Bucket Bag	**45FD42**
(2) Batteries (48-11-1820), (1) Charger (48-59-1812), (1) 6T Snub Nose-Crimping Jaw (49-16-00D3), Carabineer, Utility Bucket Bag	**45FD43**
(2) Batteries (48-11-1820), (1) Charger (48-15-1812), (1) 6T Kearney Crimping Jaw (48-16-KEAR) , Carabineer, Utility Bucket Bag	**45FD44**
(2) Batteries (48-11-1820), (1) Charger (2710-20), Carrying Case	**45FD73**
M18™ 12-Ton Crimping Tools	
(1) Battery (48-11-1850), (1) Battery (48-11-1820), (1) Charger (2710-20), Utility Bag (48-22-8279), Carabineer (42-70-0027)	**53RG07**
(1) Battery (48-11-1850), (1) Battery (48-11-1820), (1) Charger (48-59-1812), (1) Carrying Case (48-55-2778), Carabineer (42-70-0027)	**53RG08**

M18 Milwaukee

Cordless Cable Cutter Kits



No. 53RG45

- Max. operating force: 6 tons

Force Logic™ kits feature consistent hydraulic system performance, brushless motor, innovative anti-spreading jaw design, and jaws that automatically open when cut is complete.

Includes	Battery Incl.	Battery Capacity	Item No.
M18™ Copper & Aluminum			
Battery, Charger, Jaw, Hex Key, Carrying Case	38D765	2.0Ah	**45FD45**
M18™ FORCE LOGIC™ 3" Underground Cable Cutter, (1) 35GJ99 M18™ 5.0Ah REDLITHIUM™ Extended Capacity Battery, (1) 4PKV9 M18 AC/DC Charger, Carabineer	35GJ99	5.0Ah	**53RG47**
M18™ FORCE LOGIC™ 3" Underground Cable Cutter, Wireless Remote, (1) 35GJ99 M18™ 5.0Ah REDLITHIUM™ Extended Capacity Battery, (1) 4PKV9 M18 AC/DC Charger, Carabineer	35GJ99	5.0Ah	**53RG48**
M18™ Steel Cable Cutters			
Battery, Charger, Jaw, Carabineer, Hex Key, Utility Bucket Bag	38D765	2.0Ah	**45FD46**
M18™ FORCE LOGIC™ 1590 ACSR Cutter, (1) 35GJ99 M18™ 5.0Ah REDLITHIUM™ Extended Capacity Battery, (1) 4PKV9 M18 AC/DC Charger, Carabineer	35GJ99	5.0Ah	**53RG45**

M18 Milwaukee

Cordless Transfer Pump Kit

Can pump up to 480 gallons per hour. Self-priming tool allows the customer to connect and go.


No. 49JV05

Includes	Dia.	Discharge NPT	GPM of Water @ 5 ft. of Head	Battery Incl.	Battery Capacity	Item No.
M18™ 3.0Ah REDLITHIUM™ Extended Capacity Battery, M18™ & M12™ Multi-Voltage Charger, (2) Brass Fittings for Inlet and Outlet	4½"	3/4"	7.5	2PYZ8	3.0Ah	49JV06
(2) Inlet Brass Fitting, Outlet Brass Fitting		¾"		No	No Battery Included	49JV05

M18 Milwaukee

Brad Nailers

No. 49EN20



Feature zero ramp-up time with the POWERSTATE™ brushless motor and fire cylinder design. Eliminate the mess and cost of gas cartridges and the need for compressors and hoses.

Collation Angle	Fastener Range	Gauge	Includes	Battery Capacity	Item No.
20°	1¼" to 2½"	16	(1) 2.0Ah Battery Pack, (1) M18™ and M12™ Multi-Voltage Charger, Belt Clip, Contractor Bag	2.0Ah	49EN22
20°	1¼" to 2½"	16	Belt Clip	3.0Ah	49EN21
34°	1¼" to 2½"	15	(1) 2.0Ah Battery Pack, (1) Multi-Voltage Charger, Belt Clip, Contractor Bag	2.0Ah	49EN24
34°	1¼" to 2½"	15	Belt Clip	3.0Ah	49EN23
Straight	¾" to 2½"	16	(1) 2.0Ah Battery Pack, (1) Multi-Voltage Charger, Belt Clip, Contractor Bag	2.0Ah	49EN20
Straight	¾" to 2½"	16	Belt Clip	3.0Ah	49EN19

M18 Milwaukee

Grease Guns

- Delivers up to 10 oz. per min.
- 48" flexible hose

No. 45L187



Volume per Minute	Includes	Mfr. Model	Item No.
Cordless Grease Gun, Kit			
10 fl. oz.	(2)Batteries, (1)Charger, (1)Flex Hose, (1)High Pressure Coupler, (1)Plastic Carrying Case, (1)Shoulder Strap	2646-22CT	45L188
10 fl. oz.	(1)Battery, (1)Charger, (1)Flex Hose, (1)High Pressure Coupler, (1)Carrying Bag, (1)Shoulder Strap	2646-21CT	45L187
Cordless Grease Gun			
10 fl. oz.	(1)Flex Hose, (1)High Pressure Grease Coupler	2646-20	45L189

M18 Milwaukee

Caulk Guns

- 6-setting speed dial

Milwaukee No. 6AWC5



Cartridge Type	Includes	Mfr. Model	Item No.
M18™ Caulk Guns Kit			
10 oz.	10 oz. Carriage, Plunger Rod Assembly, Battery, 30 min. Charger	2641-21CT	6AWC5
20 oz. Sausage Pack	20 oz. Barrel, Plunger Rod Assembly, Nozzle, Battery, 30 min.Charger	2642-21CT	6AWC6 **
20 oz. Sausage Pack	Battery, 30 min. Charger, 20 oz. Clear Sausage Style Barrel, 20 oz. Plunger Rod and Piston Assembly	2643-21CT	14P345 *
M18™ Caulk Gun			
10 oz.	Tool Only	2641-20	6AWC4

** Clear barrel. ** Aluminum barrel.*

M18 Milwaukee

Chainsaw



M18 FUEL™ cuts hardwoods faster than gas and delivers up to 150 cuts per charge. POWERSTATE™ brushless motor maintains speed under heavy loads. REDLINK PLUS™ helps protect against overload, overheating, and over discharge. M18™ REDLITHIUM™ HIGH OUTPUT™ HD12.0 battery delivers long run-time. Includes antivibration handle, chain oiler, rapid charger, 16" Oregon bar, and scrench.

Bar Length	HP	Includes	Item No.
16"	2.8	REDLITHIUM™ High Output, Battery Pack, Rapid Charger, 16" Oregon Bar, Chain, Scrunch	481Z41

M18 Milwaukee

18V String & Hedge Trimmers

No. 49JU95



Line Dia.	Cutting Width	Shaft Length	Shaft Type	Run Time	Includes	Mfr. Model	Item No.
String Trimmer							
0.080"	16"	60"	Straight	60 min.	—	2725-20	53KK05
0.080	14" to 16"	5"	Straight	60 min.	High Demand Battery, Rapid Charger	2725-21HD	49JU94

Bar Length	Battery Amperage	Blade Type	Max. Cutting Dia.	Run Time	Includes	Mfr. Model	Item No.
Hedge Trimmers							
24"	9.0Ah	Double-Sided	¾"	120 min.	High Demand Battery, Rapid Charger	2726-21HD	49JU95

M18 Milwaukee

Blower & Fan

No. 437V38



- Blower features 3-speed electronic switch, lock-on and variable speed trigger
- Jobsite fan circulates air over 40 ft. with up to 17 hr. of runtime

Max. Air Flow	Max. Air Speed	Speed Control	Battery Included	Mfr. Model	Item No.
M18™ Jobsite Fan					
284 cfm	18 mph	—	Bare Tool	0886-20	39RY16
M18™ Blowers					
100 cfm	160 mph	3	Bare Tool	0884-20	20JX71
450 cfm	120 mph	Variable	Bare Tool	2724-20	437V38
450 cfm	120 mph	Variable	Battery Included	2724-21HD	437V37

M18 Milwaukee

Heat Gun

No. 408L71



M18™ compact 360W heat gun reaches operational temperature in less than 7 sec. Guarded nozzle provides increased protection for work surfaces and the ladder hook lets users easily hang the tool. REDLITHIUM™ battery technology allows gun to heat over 40 connections on a single XC5.0 battery. 6.0 cfm. 875°F.

Item	Includes	Item No.
Heat Gun	—	408L71
Heat Gun Kit	Charger, ⅜" Concentrator Nozzle, Hook Nozzle, Carrying Case, 5A Battery	408L72

M18 Milwaukee

Radios


No. 20JX70


No. 45FD35

- Jobsite Radio Charger has exclusive digital Bluetooth® receiver that streams audio wirelessly from over 100 ft. away

Description	Battery Included	Mfr. Model	Item No.
M18™ Jobsite Radios			
Jobsite Charger Radio, Bluetooth Compatible	No	2792-20	20JX70
Jobsite Radio	No	2890-20	45FD35
M18™/M12™ Jobsite Radios			
Wireless Jobsite Speaker	No	2891-20	52WR82
M18™ Power Source			
Power Source	No	49-24-2371	24U077



M12™ and M18™ High-Output Lighting

- These lights offer professionals the ability to bring light directly to the jobsite as well as control beam intensity and direction for greater productivity
- Trueview™ LED and REDLITHIUM™ batteries allow lights to shine brighter and last longer
- Reinforced, impact-resistant housings and lenses stand up to the challenges of industrial use while temperature management helps protect LEDs throughout their lifetime

M12 M18 Milwaukee

Task Lights

Flood lights are broad beam lights used to illuminate a wide area. They are compact and hands free with a stick, clamp, hang, or carry design. Tower lights and task lights are hands-free and focus light in a particular direction or area. Tower lights mount on a tower while task lights are compact and available in stick, clamp, or carry design.


No. 22MG94


No. 419J65


No. 49JU93


No. 49JU91


No. 481J05

Description	Lumens	Focus	Battery Included	Includes	Mfr. Model	Item No.
M12™						
Lantern/Flood Light	400	Spot/Flood Combination Beam	Bare Tool	Battery and Charger Sold Separately	2362-20	**32NM97**
LED Underhood Light Bare Tool	1350	Adjustable	Bare Tool	—	2125-20	**408L65**
LED Underhood Light Kit	1350	Adjustable	Battery Included	Battery, Charger	2125-21XC	**408L66**
LED Worklight	160	Fixed	Bare Tool	—	49-24-0146	**2PYZ7**
ROCKET™ Dual Power Tower Light	1400	Fixed	Bare Tool	—	2132-20	**484X15**
ROVER™ Flood Light	1000	Flood	Bare Tool	—	2364-20	**49JU90**
Stick Light	220	Fixed	Bare Tool	—	2351-20	**22MG94**
M18™						
Lantern/Flood Light	700	Spot/Flood Combination Beam	Bare Tool	—	2363-20	**32NM98**
LED Worklight	100	Fixed	Bare Tool	—	2735-20	**4PKW2**
ROCKET™ Dual Pack Tower Light OneKey	5400	Adjustable	Bare Tool	—	2120-20	**419J66**
ROCKET™ Dual Pack Tower Light OneKey	5400	Adjustable	Battery Included	(2) M18 Redlithium High Demand 9.0 AH Battery Pack, (1) Rapid Charger, (1) Shoulder Strap	2120-22HD	**419J67**
ROCKET™ Tower Light	2500	Adjustable	Bare Tool	—	2131-20	**481J05**
ROCKET™ Tower Light/Charger	3000/1700/900	Fixed	Bare Tool	—	2135-20	**49JR04**
ROCKET™ Tower Light/Charger Kit	3000/1700/900	Fixed	Battery Included	M18 9.0Ah Redlithium™ High Demand Battery	2135-21HD	**52WR77**
ROVER™ Dual Power Flood Light	3000	Fixed	Bare Tool	—	2360-20	**45FD37**
ROVER™ Flood Light	1300	Fixed	Bare Tool	—	2361-20	**22MG95**
ROVER™ Mounting Flood Light	1500	Adjustable	Bare Tool	—	2365-20	**419J65**
Search Light	600 to 1250	Spot/Flood Combination Beam	Bare Tool	—	2354-20	**49JU93**
Search Light Kit	600 to 1250	Spot/Flood Combination Beam	Battery Included	Extended Capacity Battery, Multi Voltage Charger, Shoulder Strap	2354-21	**52WR72**
Stick Light	300	Fixed	Bare Tool	—	2352-20	**32NM99**
Utility Bucket Light	2500	Spot/Flood Combination Beam	Bare Tool	—	2122-20	**49JU91**
USB Rechargeable						
USB ROVER™ Flood Light	445	Flood	Battery Included	REDLITHIUM USB battery, USB cable	2112-21	**419J79**

M18 Milwaukee

Area Lights

Site lights provide hands-free full workspace coverage lighting. Batteries not included. LED No. 419J70 is a 70W temporary light. Comes with 120-volt plug and can be integrated into temporary power systems from 120 to 277V. Integrated hang cable and spring-loaded cable retention help light to stay secure. Efficient 7,700 lumens.


No. 465X07

Description	Lumens	Lamp Life	Focus	Includes	Mfr. Model	Item No.
M18™ Battery Powered RADIUS™ Area Lights						
Compact Site Light	1000/4400	50,000 hr.	Fixed	Security Cable	2145-20	**49JR05**
Compact Site Light w/Flood Mode	1000/2200	18 hr.	Flood	—	2144-20	**465X07**
Compact Site Light w/ ONE-KEY™	1000/4400	50,000 hr.	Fixed	Security Cable	2146-20	**49ZW21**
Site Light/Charger	9000	50,000 hr.	Adjustable	Charger	2151-20	**419J69**
Site Light w/OneKey	9000	50,000 hr.	Adjustable	Charger	2150-20	**419J68**
RADIUS™ Hardwired Light						
LED High Bay Light	8000	—	—	—	2155-AC	**419J70**

M12 Milwaukee

Personal Lights

Narrow area lights cast a bright, controllable beam of light on important tasks. Some are specifically designed to be worn on the body while others are hand held.


No. 48UT44




No. 419J78

Description	Beam Distance	Battery Burn Time	Includes	Mfr. Model	Item No.
Handheld Series					
Penlight (2) AAA Batteries	43m	3.3 hr.	(2) AAA Batteries	2105	**419J83**
USB Rechargeable Flashlight	200m	4 hr.	REDLITHIUM® Battery, 2 ft. Heavy Duty USB Cord	2110-21	**419J77**
Headlamp, (3) AAA Batteries	26.15m	31 hr.	—	2103	**419J84**
USB Rechargable Hard Hat Light	52m	2/31 hr.	(1) Battery, (1) USB Cable	2111-21	**419J78**
Handheld M12™ Worklights					
M12™ Metal Flashlight Kit	374 ft.	—	Battery, Charger, Lanyard	2355-21	**48UT44**
M12™ Spot Light	613m	Up to 10 hr.	Lanyard	2353-20	**45FD40**

Milwaukee M12 FUEL™
DRIVEN TO OUTPERFORM.™

M12™ FUEL Tool Advantages

- M12 cordless system includes over 70 tools Compact size tools fit in tight spaces Battery fuel gauge displays remaining charge M12 FUEL™ tools feature exclusive POWERSTATE™ brushless motors, REDLITHIUM™ battery technology, and REDLINK PLUS™ advanced electronics for superior power and run time




No. 38D763


No. 38D764

M12 Milwaukee

Batteries & Chargers

- REDLITHIUM™ batteries offer more run time, power and recharges than conventional Li-Ion BatteriesOperate down to 0°F for superior cold weather performanceCooler operation for superior hot weather performanceFade-free power with no memory effect


No. 32NN05

BatteryCapacity	Mfr.Model	ItemNo.	Pkg.Qty.
M12™ Batteries			
1.5Ah	48-11-2401	**2XKZ6**	1
1.5Ah	48-11-2411	**38D759**	2
2.0Ah	48-11-2420	**38D763**	1
3.0Ah	48-11-2430	**49JV07**	1
3.0Ah	48-11-2412	**38D760**	2
4.0Ah	48-11-2440	**38D764**	1
6.0Ah	48-11-2460	**49JV08**	1

Charger Input Voltage	For Use With	Mfr.Model	ItemNo.
M12™ Battery Chargers			
120VAC	Milwaukee® M12 Batteries	48-59-2401	**2XKZ7**
120VAC	Milwaukee® M12™ and M18™ Batteries	48-59-1812	**23Y581**
M12™ Vehicle Battery Chargers			
12VDC/24VDC	Milwaukee M12 and M18 Batteries	48-59-1810	**53KK02**
M12 Battery Chargers - 4 PCM-Port			
120VAC	Milwaukee® M12 Batteries	48-59-1204	**39RY20**
M12™ Battery Chargers - 6-Port			
120VAC	Milwaukee® M12™ and M18™ Batteries	48-59-1807	**32NN05**

Expand Your Cordless System with Bare Tools

- Maximize value without duplicating batteries, chargers, and cases



M12 Milwaukee

Combo Kits



No. 423K53

- ½" Drill/Driver, 2-speed with ratcheting chuck¼" Hex Impact Driver with LED light, 1200 in-lb. of torqueIncludes 2 batteries, charger and hard case⅜" Drill/Driver, 2-speed



No. 14G946

with ratcheting chuck¼" Hex Impact Driver with LED light, 1000 in-lb. of torqueReciprocating Saw, ½" strokeIncludes worklight, 2 batteries, charger and contractor bag

No. of Tools	Hammer Drill	Drill	Impact Driver	Reciprocating Saw	Light	BatteryIncluded	BatteryCapacity	Charger	Carrying Case	Mfr.Model	ItemNo.
M12™ 2.0Ah, 4.0Ah Combo Kits											
2			Mfr. No. 2553-20			38D763, 38D764	2.0Ah, 4.0Ah	23Y581	Contractor Bag	2598-22	**423K53**
2			Mfr. No. 2553-20			38D763, 38D764	2.0Ah, 4.0Ah	23Y581	Contractor Bag	2596-22	**423K54**
M12™ 1.5Ah Combo Kits											
2		22UT56				(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2495-22	**23Y582** *
2				5GUX7		(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2490-22	**2PYX9**
2			45L185	5GUX7		(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2491-22	**4LER4**
2		22UT56				(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2492-22	**22UT58**
2		22UT56	45L185			(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2494-22	**12E731**
2	22UT54		45L185			(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2497-22	**12E732**
4		22UT56	45L185	5GUX7	2PYZ6	(2) 2XKZ6	1.5Ah	2XKZ7	Contractor Bag	2498-24	**14G946**
8		22UT56	45L185	5GUX7	2PYZ6	(2) 2XKZ6, (1) 4PKY2	1.5Ah	2XKZ7	Contractor Bag	2495-28	**23Y583** *

** Go to Grainger.com® for complete listing of tools included in kit.*



M12 Milwaukee

Drill/Drivers & Hammer Drills

- M12 FUEL™ Brushless Drill/Drivers and Hammer Drills offer more power, run time and longer life
- M12™ Drill/Drivers have ergonomic grip handle, belt clip and metal chuck
- M12™ Right Angle Drills feature an innovative electronic clutch with 11 settings plus drill mode for complete control
- M12 FUEL™ Brushless Hammer Drills have an all metal chuck and provide more power, run time and longer motor life
- M12™ Hammer Drills feature an all metal chuck and REDLINK™ advanced electronics
- For kit contents including batteries, chargers, and accessories, see Grainger.com®

Chuck Size	No Load RPM	Max. Torque	Battery Capacity	Mfr. Model	Item No.
M12™ Drill/Drivers					
Bare Tool					
⅜"	0 to 400/0 to 1500	275 in.-lb.	—	2407-20	**22UT56**
½"	0 to 450/0 to 1700	350 in.-lb.	—	2503-20	**423K47**
Kits					
⅜"	0 to 400/0 to 1500	275 in.-lb.	1.5Ah	2407-22	**22UT57**
½"	0 to 450/0 to 1700	350 in.-lb.	2.0Ah/4.0Ah	2503-22	**423K48**
M12™ Hammer Drill/Drivers					
Bare Tool					
⅜"	0 to 400/0 to 1500	275 in.-lb.	—	2408-20	**22UT54**
Kits					
⅜"	0 to 400/0 to 1500	275 in.-lb.	1.5Ah	2408-22	**22UT55**
M12™ Hammer Drills					
Bare Tool					
½"	0 to 450/0 to 1700	350 in.-lb.	2.0Ah/4.0Ah	2504-20	**423K49**
Kits					
½"	0 to 450/0 to 1700	350 in.-lb.	2.0Ah/4.0Ah	2504-22	**423K50**
M12™ Right Angle Drills					
Bare Tool					
⅜"	0 to 800	100 in.-lb.	—	2415-20	**6FKP6**
Kits					
⅜"	0 to 800	100 in.-lb.	1.5Ah	2415-21	**4PKV2**

M12 Milwaukee

Impact Drivers & Wrenches

- M12 FUEL™ Brushless Impact Drivers and Wrenches offer 2-mode Drive Control™ and long run time
- M12™ Impact Drivers and Wrenches feature REDLITHIUM™ batteries and a high efficiency mechanism for maximum run time
- For kit contents including batteries, chargers, and accessories, see Grainger.com®



Drive Size	Max. No Load RPM	Max. Blows per Minute	Max. Torque	Includes	Battery Capacity	Mfr. Model	Item No.
M12 FUEL™ Brushless Impact Wrenches							
Straight							
¼"	2650	4000	100 ft.-lb.	—	2.0Ah, 4.0Ah	2552-20	**488D97**
⅜"	2700	3200	250 ft.-lb.	—	2.0Ah, 4.0Ah	2554-20	**488D99**
⅜"	2650	3500	117 ft.-lb.	—	—	2454-20	**34G869**
½"	2700	3200	250 ft.-lb.	Carrying Case	2.0Ah, 4.0Ah	2555P-20	**488F04**
M12 FUEL™ Brushless Impact Wrench Kits							
Straight							
¼"	2650	4000	100 ft.-lb.	(2) Batteries, Charger, Case	2.0Ah, 4.0Ah	2552-22	**488D98**
⅜"	2650	3500	117 ft.-lb.	Cordless Impact Wrench (34G869), (1) Battery (38D763), Charger (2XKZ7), Carrying Case	2.0Ah	2454-22	**34G870**
⅜"	2700	3200	250 ft.-lb.	(2) Batteries, Charger, Case	2.0Ah, 4.0Ah	2554-22	**488F01**
½"	2700	3200	250 ft.-lb.	(2) Batteries, Charger, Case	2.0Ah, 4.0Ah	2555P-22	**488F05**
M12™ Impact Driver Kits							
Right Angle							
¼"	2425	3300	600 in.-lb.	Battery Pack, Charger, Contractor Bag	1.5Ah	2467-21	**40JM66**
Straight							
¼"	2500	3300	1000 in.-lb.	(2) Batteries, Charger, Belt Hook, Carrying Case	1.5Ah	2462-22	**45L186**
M12™ Impact Drivers							
Right Angle							
¼"	2425	3300	600 in.-lb.	—	—	2467-20	**40JM65**
Straight							
¼"	2500	3300	1000 in.-lb.	Belt Hook	—	2462-20	**45L185**
M12™ Impact Wrenches							
Straight							
¼"	2500	3800	450 in.-lb.	Belt Clip	—	2461-20	**20JX65**
¼"	3300	4000	1300 in.-lb.	Tool Only	2.0Ah	2553-20	**423K51**
⅜"	2500	3300	100 ft.-lb.	Belt Clip	—	2463-20	**45L194**
M12™ Impact Wrench Kits							
Straight							
¼"	2500	3800	450 in.-lb.	(2) M12 Battery (2XKZ6), M12 Battery Charger (2XKZ7), Belt Clip, Carrying Case	1.5Ah	2461-22	**20JX66**
¼"	3300	4000	1300 in.-lb.	Battery	2.0Ah	2553-22	**423K52**
⅜"	2500	3300	100 ft.-lb.	(2) Compact Batteries (2XKZ6), Charger, Belt Clip, Carrying Case	1.5Ah	2463-22	**45L195**

M12 Milwaukee

Screwdrivers

- M12 FUEL™ Screwdrivers offer more power, run time and longer life
- For kit contents including batteries, chargers, and accessories, see Grainger.com®

Chuck Size	No Load RPM	Max. Torque	Battery Capacity	Mfr. Model	Item No.
M12 FUEL™ Brushless Screwdrivers					
Bare Tool					
¼"	0 to 450/0 to 1700	325 in.-lb.	—	2402-20	**34G847**
Kits					
¼"	0 to 450/0 to 1700	325 in.-lb.	2.0Ah	2402-22	**34G848**
M12™ Screwdrivers					
Bare Tool					
¼"	0 to 400/0 to 1500	275 in.-lb.	—	2406-20	**22UT44**
¼"	0 to 500	175 in.-lb.	—	2401-20	**5GUV9**
Kits					
¼"	0 to 400/0 to 1500	275 in.-lb.	1.5Ah	2406-22	**22UT45**
¼"	0 to 500	175 in.-lb.	1.5Ah	2401-22	**2CDC8**



M12 Milwaukee

Ratchets

- Tool-belt portable with 10¾" length
- ¾" low profile head design
- Variable speed metal trigger and reinforced steel housing



Drive Size	No Load RPM	Max. Torque	Battery Capacity	Includes	Mfr. Model	Item No.
M12™ Ratchets						
¼"	0 to 250	30 ft.-lb.	1.5Ah	30 Minute M12 Charger, Red-lithium Battery, and Carrying Case	2456-21	**13G247**
¼"	0 to 250	30 ft.-lb.	—	Tool Only	2456-20	**13G248**
⅜"	0 to 250	35 ft.-lb.	1.5Ah	30 Minute M12 Charger, Red-lithium Battery, and Carrying Case	2457-21	**13G249**
⅜"	0 to 250	35 ft.-lb.	—	Tool Only	2457-20	**13G250**
M12 FUEL™ Brushless Cordless Ratchet Kit						
¼"	0 to 250	40 ft.-lb.	1.5Ah	(2) Batteries, Charger, Carrying Case	2556-22	**408L76**
⅜"	0 to 200	55 ft.-lb.	2.0Ah	(2) Batteries, Charger, Carrying Case	2557-22	**408L78**
½"	0 to 175	60 ft.-lb.	1.5Ah	(2) Batteries, Charger, Carrying Case	2558-22	**408L80**

For 12V Batteries, see page 681.



No. 22UT75

M12 Milwaukee SDS plus

Rotary Hammers

- M12 FUEL™ Rotary Hammers provide faster speed and a large SDS Plus bit capacity

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
M12 FUEL™ L-Shape SDS Plus Rotary Hammers					
0 to 900	0 to 6200	(2) 38D764	4.0Ah	2416-22XC	**22UT75**
0 to 900	0 to 6200	No	—	2416-20	**22UT74**
M12™ L-Shape SDS Plus Rotary Hammers					
0 to 800	0 to 5350	(2) 4PKY2	3.0Ah	2412-22XC	**34K740**
0 to 800	0 to 5350	No	—	2412-20	**34K739**
Rotary Hammer Dust Collection Systems					
Universal, For Use with most AC/DC SDS Rotary Hammers (Includes Battery 2XKZ6)				2306-22	**34K738**
Universal, For Use with most AC/DC SDS Rotary Hammers (Battery not included)				2306-20	**34K737**



No. 24U091

M12 Milwaukee

Band Saws

- Compact size and lightweight
- Cut ¾" EMT in 3 sec., up to 150 cuts per charge with XC battery

Surface ft. per Min. High	Round Cap.	Rectangle Capacity	Battery Included	Battery Capacity	Mfr. Model	Item No.
0 to 280	1⅝"	1⅝" x 1⅝"	4PKY2	3.0Ah	2429-21XC	**24U091**
			No	—	2429-20	**24U092**



No. 13G253

M12 Milwaukee

Jigsaws

- M12™ Jigsaws feature innovative Hybid Grip™ design for greater control and a variable speed trigger

Length of Stroke	Strokes per Minute	Battery Capacity	Battery Included	Mfr. Model	Item No.
¾"	0 to 2800	1.5Ah	No	2445-20	**13G254**
¾"	0 to 2800	1.5Ah	2XKZ6	2445-21	**13G253**



M12 Milwaukee

Circular Saws

- Heavy duty aluminum guards
- LED light for cutline visibility

Blade Dia.	No Load RPM	Cutting Depth @ 45°	Cutting Depth @ 90°	Battery Capacity	Battery Included	Mfr. Model	Item No.
5⅜"	3600	1⅛"	1⅝"	4.0Ah	(1) 38D764	2530-21XC	**39RY14**
5⅜"	3600	1⅛"	1⅝"	—	No	2530-20	**39RY15**



No. 31MJ77

M12 Milwaukee

Reciprocating Saws

- M12 FUEL™ Brushless Hackzall offers faster cutting and longer run time

Length of Stroke	No Load Strokes/ Minute	Battery Included	Battery Capacity	Includes	Mfr. Model	Item No.
⅝"	0 to 3000	38D764	4.0Ah	M12 FUEL™ HACKZALL™ Recip Saw, M12 REDLITHIUM™ XC 4.0 Battery, M12 Lithium Ion Charger, Contractor Bag, Multi-Material Blade	2520-21XC	**31MJ77**
½"	0 to 3000	2XKZ6	1.5Ah	Reciprocating Saw, Battery ,Charger, (2) Hackzall Blades, Contractor Bag	2420-21	**5HXL5**
½"	0 to 3000	(2) 2XKZ6	1.5Ah	Reciprocating Saw, (2) Batteries, Charger, (2) Hackzall Blades, Contractor Bag	2420-22	**2PYX7**
⅝"	0 to 3000	No	—	(1) Multi-Material Blade	2520-20	**31MJ76**
½"	0 to 3000	No	—	(2) Hackzall™ Blades	2420-20	**5GUX7**



No. 6CZA7

M12 Milwaukee

Oscillating Tools

- M12™ Oscillating tools offer 12 speed settings and an on-board fuel gauge that displays remaining run time

Orbits per Minute	Battery Capacity	Battery Included	Includes	Mfr. Model	Item No.
5000 to 20,000	1.5Ah	(2) 2XKZ6	(2) Batteries, 30 Minute Charger, Adaptor, Wood Cutting Blade, Sanding Paper Pad, (5) Assorted Sanding Sheets, and Contractor Bag	2426-22	**6CZA7**
5000 to 20,000	1.5Ah	2XKZ6	Battery, 30 Minute Charger, Contractor Bag, Adapter, Wood Cutting Blade, Sanding Pad, (5) Assorted Sanding Sheets	2426-21	**38W628**
5000 to 20,000	—	No	Adaptor, Wood Cutting Blade, Sanding Pad, and (5) Sandpaper	2426-20	**6CZA6**

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

M12 Milwaukee

Rivet Tool

The M12™ cordless rivet tool can pull up to 250 3/16" stainless steel rivets or 450 1/8" steel rivets on one charge with a 1.5ah battery, reducing muscle effort. No compressors or hoses during set up and operation makes this tool a great replacement to pneumatic products. Compact cordless rivet tool measures only 6.5" in length allowing users more access in tight spaces.



No. 458T32

Blind Rivet Dia.	Insert Size	Pulling Force	Includes	Mfr. Model	Item No.
3/16"	3/32" to 3/16"	2000 lb.	—	2550-20	**458T32**
3/16"	3/32" to 3/16"	2000 lb.	(2) Batteries, Charger	2550-22	**458T33**

No. 419J58



M12 Milwaukee

Staplers

- 3/8" crown
- 1/4" to 9/16" leg length
- Magazine capacity: 89
- T50 or equivalent staples recommended

Battery Included/ Bare Tool	Battery Capacity	Includes	Mfr. Model	Item No.
Battery Included	1.5Ah	M12™ Charger, Tool Bag	2447-21	**419J59**
Bare Tool	—	—	2447-20	**419J58**

No. 6AWC8



Rotary Tools

M12 Milwaukee

- M12™ Rotary tools feature grinder-style exhaust ports and a collet that is compatible with all 1/32" to 1/8" shank accessories

No Load RPM	Battery Included	Battery Capacity	Includes	Mfr. Model	Item No.
5000 to 32,000	2XKZ6	1.5Ah	M12® Li-Ion Battery, 30 min. Charger, Wrench, Soft Carrying Case, Battery Charger Mfr. No. 48-59-2401	2460-21	**6AWC8**
5000 to 32,000	No	—	Wrench, (5) Cutting Wheel, Mandrel	2460-20	**6AWC9**

M12 Milwaukee

Inspection Cameras

- M-SPECTOR M12™ 360™ has an innovative rotating LCD display and 4 LED lights to view images anywhere
- M-SPECTOR M12™ FLEX™ offers wireless transmission, 4X zoom, and 90° image rotation



No. 13G252

Shaft Dia.	Shaft Length	Battery Included	Description	Mfr. Model	Item No.
0.35"	36"	2XKZ6	M-SPECTOR M12™ 360™	2313-21	**13G252**
	36"	No	M-SPECTOR M12™ 360™	2313-20	**13G251**
	108"	2XKZ6	M-SPECTOR M12™ 360™	2314-21	**13G256**
0.39"	108"	2XKZ6	M-SPECTOR M12™ FLEX™	2316-21	**40KJ37**
0.49"	36"	2XKZ6	M-SPECTOR M12™ FLEX™	2317-21	**40KJ38**

No. 26X067



M12 Milwaukee

Cable Cutters

- Powerful open jaws deliver installation-ready cuts
- Deliver up to 150 cuts of 500 MCM copper per charge

Cutting Cap./Material	Battery Included	Battery Capacity	Mfr. Model	Item No.
600 MCM Copper, 750 MCM Aluminum, 1 3/16" Communication Cable	4PKY2	3.0Ah	2472-21XC	**26X067**
	No	—	2472-20	**26X068**

M12 Milwaukee

Plumbing Tools

- M12™ ProPEX® Expansion tools are specifically designed for Uponor® ProPEX® for easy installations
- M12™ Tube Cutters have a versatile cutting mechanism that automatically adjusts from 3/8" to 1" tubing
- M12™ Plastic Pipe Shear cuts in 3 sec. and delivers up to 200 cuts per charge
- M12™ No-Hub Drivers deliver 60 or 80 in.-lb. of torque for accurate installation of no-hub couplings



No. 4PKV3

Cap. Tubing O.D. (in.)	Battery Included	Battery Capacity	Mfr. Model	Item No.
M12™ ProPEX® Expansion Tools				
3/8 to 1	(2) 2XKZ6	1.5Ah	2432-22	**6CYZ9**
3/8 to 1	No	No	2432-20	**6CYZ8**
M12™ Tube Cutters				
1/2" to 1 1/8"	2XKZ6	1.5Ah	2471-21	**2PYX8**
1/2" to 1 1/8"	No	—	2471-20	**5GUY3**
M12™ Plastic Pipe Shears				
2 3/8"	2XKZ6	1.5Ah	2470-21	**4PKV3**
2 3/8"	No	—	2470-20	**5GUV7**
M12™ No-Hub Drivers				
—	(2) 2XKZ6	1.5Ah	2455-22	**5HXN2**
—	No	—	2455-20	**5HXN0**

M12 Milwaukee

Polisher/Sanders

- Easily switches between polishing and sanding modes
- Tool-free accessory changes
- All M12™ Polisher/Sanders include a 5-pc. accessory pack with (1) 3" polishing backing pad, (1) 2" sanding backing pad, (1) wool pad, (1) yellow foam pad, and (1) white foam pad



No. 32NN04

Size	No Load RPM	Battery Included	Battery Capacity	Mfr. Model	Item No.
3"	0 to 2800/0 to 8300	(1) 2XKZ6, (1) 4PKY2	1.5Ah, 3Ah	2438-22X	**32NN04**
3"		(2) 2XKZ6	1.5Ah	2438-22	**32NN03**
3"		No	—	2438-20	**32NN02**



No. 34G844

M12 Milwaukee

Caulk Guns

- Variable speed trigger delivers 0 to 28 in./min.
- 6-setting speed dial

Cartridge Type	Battery Included	Battery Capacity	Mfr. Model	Item No.
10 oz.	—	1.5Ah	2441-21	**34G844**
10 oz.	No	1.5Ah	2441-20	**34G843**
20 oz. Sausage Pack	2XKZ6	1.5Ah	2442-21	**34G845**
Quart Size Cartridges	2XKZ6	1.5Ah	2444-21	**34G846**



No. 4PKY9

M12 Milwaukee

Grease Guns

- Delivers up to 2.6 oz. per min.
- 36" flexible hose

Cartridge Capacity	Bulk Capacity	Max. Operating Pressure	Battery Included	Battery Capacity	Mfr. Model	Item No.
14½ oz.	16 oz.	8000 psi	4PKY2	3Ah	2446-21XC	**4PKY9**
14½ oz.	16 oz.	8000 psi	No	—	2446-20	**6FKP5**



M12 Milwaukee

Vacuum

- Up to 29 min. of runtime with M12™ XC 4.0 Ah battery
- Universal 1¼" attachment nozzle
- Includes extension wand, utility nozzle, and crevice tool

Air Flow	Tank Size	Battery Included	Mfr. Model	Item No.
33 cfm	0.63 qt.	No	0850-20	**32NN01**



No. 458T28

M12 Milwaukee

Inflators

M12™ compact inflator delivers fast, accurate, easy inflation with portability. Use for demanding applications like car, LT truck, and compact equipment tires. Rated to deliver over 120 psi. TrueFill™ auto shut-off technology protects from overfill and automatically senses speed of fill. Features antivibration feet and 26" hose with an all brass Schrader chuck.

Includes	Mfr. Model	Item No.
Ball Inflation Needle, Presta Chuck, Schrader Chuck, Inflator Nozzle	2475-20	**458T28**
M12™ REDLITHIUM™ XC Battery Pack, M12™ Lithium-Ion Battery Charger, Ball Inflation Needle, Presta Chuck, Schrader Chuck, Inflator Nozzle	2475-21XC	**458T30**



No. J7326



No. J7325



No. J7327

M12 Milwaukee

Heated Jackets, Gloves and Hoodies

- Carbon fiber heating elements distribute and maintain heat to chest and back
- Up to 8 hr. of continuous heat per battery charge
- Adjustable heat control with 3 heat settings
- Jackets are wind and water resistant with heating zones in pockets
- 3-in-1 jackets combine a heated hoodie with an insulated, wind and water resistant Ripstop shell
- Heated hoodies have an insulating liner inside a water-repellant polyester shell
- Machine washable and dryable

▶CHOOSE: Size	Gender	Color	Includes	Battery Included	Item No.
Hooded Jacket					
L	Men's	Black	Fitted Hood, Rib Knit Cuffs and Waist	—	**J5099**
Heated Vest					
S, M, L, XL, 2XL, 3XL	Men's	Black	Battery Holder	Yes	**J6849**
S, M, L, XL, 2XL	Women's	Black	Battery Holder	Yes	**J7326**
Heated Jacket					
S, M, L, XL, 2XL, 3X	Men's	Black	—	Yes	**J7325**
S, M, L, XL, 2XL, 3XL	Men's	Gray	—	Yes	**J7325**

▶CHOOSE: Size	Color	Includes	Battery Included	Item No.
Heated Gloves				
M, XL	Red	Split USB Charging Cable, Wall Plug	(2) Mfr. No. 48-11-2130	**J7327**
L	Black	Split USB Charging Cable, Wall Plug, (2) USB Batteries, (2) USB Battery Charger		



No. 408L73

M12 Milwaukee

Soldering Irons

The M12™ soldering iron reaches operational temperature in under 18 sec. and maintaining an optimized temperature. The heat indicator utilizes REDLINK™ INTELLEGENCE to notify users when the tool is ready-to-use and safe-to-store. The 3-stop pivoting head lets the user adapt the tool for more confined spaces. REDLITHIUM™ battery technology allows up to 40 min. of run-time on a M12™ Compact Battery Pack.

Includes	Mfr. Model	Item No.
(1) Pointed Tip, (1) Chisel Tip, (1) Soldering Iron	2488-20	**408L73**
Chisel Tip, Pointed Tip, Compact Battery Pack, Charger, Carrying Case	2488-21	**408L74**



No. 36GA16

M12 Milwaukee

Radios

No. 4PKV5 features weatherproof aluminum speakers, weather-sealed MP3 compartment, shock-absorbing housing, and steel construction. M12 Jobsite speaker No. 36GA16 offers Bluetooth® connectivity. Durable with rugged overmold and metal speaker grill.

Description	Battery Included	Mfr. Model	Item No.
Weatherproof Jobsite Radio	No	2590-20	**4PKV5**
Wireless Jobsite Speaker	No	2592-20	**36GA16**

Batteries & Chargers



No. 33RT41

Battery Capacity	Mfr. Model	Item No.	Pkg. Qty.
Makita® Accessories			
3.0Ah	BL1830B	**4NNN2**	1
3.0Ah	BL1830B-2	**6CFC2**	2
18V LXT® Compact Batteries			
2.0Ah	BL1820B	**33RT41**	1
18V LXT® Batteries			
3.0Ah	BL1830B-10	**14F062**	10
4.0Ah	BL1840B	**33RT43**	1
4.0Ah	BL1840B-2	**33RT44**	2
5.0Ah	BL1850B	**38XU33**	1
5.0Ah	BL1850B-2	**38XU34**	2

Charger Input Voltage	Battery Capacity	For Use With	Mfr. Model	Item No.
Makita® Accessories				
120VAC	6.0Ah	Makita 18.0V Li-Ion and LXT Batteries	DC18RC	**4NNN4**
2-Bay Battery Charger				
120VAC	6.0Ah	All Makita Li-Ion LXT Series Batteries	DC18RD	**38XU23**
4-Bay Battery Charger				
120VAC	4.0Ah	Makita 18.0V Li-Ion and LXT Batteries	DC18SF	**22UT98**
Vehicle Battery Charger				
12VDC	5.0Ah	Makita 18.0V Li-Ion and LXT Batteries	DC18SE	**4NNN5**
18V LXT® Battery Pack and Charger Kit				
120VAC	2.0Ah	Makita 18V Cordless Tools	BL1820BDC1	**48WA63**
120VAC	4.0Ah	Makita 18V Cordless Tools	BL1840BDC1	**48WA64**
120VAC	5.0Ah	Makita 18V Cordless Tools	BL1850BDC1	**48WA65**

18V

Makita

Combo Kits

- Compact ½" Drill/Driver with adjustable clutch, 2-speeds, 480 in.-lb. max. torque
- Compact ¼" Hex Impact Driver with built-in LED light, 0-3200 blows per min.
- Includes 2 batteries, charger, and contractor bag
- ½" Hammer Drill with 16-setting adjustable clutch, 0-600/0-22,500 blows per min.
- ¼" Hex Impact Driver with built-in LED light, 0-3200 blows per min.
- Includes 2 batteries, charger, and kit box



No. 49XZ59

No. of Tools	Hammer Drill	Drill	Impact Driver	Impact Wrench	Circular Saw	Recip Saw	Jigsaw	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
3.0Ah Combo Kits													
4	5WFR2	—	—	—	5WFT3	52RX10	—	4NNN7	(2) 33RT43	4NNN4	Contractor Bag	XT442	**53YK06**
6	5WFR2	—	5WFT5	—	5WFT3	52RX10	—	46AD66	4NNN2	4NNN4	Contractor Bag	XT610	**52YU78**
15	5WFR2	—	5WFT5	5WFT9, 5WFV1	5WFT3	52RX10	—	4NNN7	4NNN2	4NNN4	(2) Contractor Bags	XT1501	**453G30**
4.0Ah Brushless Combo Kits													
2	20UJ21	—	34G794	—	—	—	—	—	33RT43	4NNN4	Kit Box	XT269M	**52HF55**
2	31HJ92	—	52YW63	—	—	—	—	—	33RT43	4NNN4	Kit Box	XT268M	**52YW67**
2	31HJ92	—	34G794	—	—	—	—	—	33RT43	4NNN4	Kit Box	XT267M	**52YW69**
4.0Ah Combo Kits													
2	5WFR2	—	5WFT5	—	—	—	—	—	(2) 33RT43	4NNN6	Kit Box	XT261M	**49XZ59**
5.0Ah Combo Kits													
2	—	—	5WFT5	—	—	—	—	—	38XU33	4NNN4	Contractor Bag	XT262T	**54JK12**

** Go to Grainger.com® for complete listing of tools included in kit.*



No. 5WFP8



No. 4NNJ8

18V

Makita

Drill/Drivers & Screwdrivers

Chuck Size	No Load RPM	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Brushless LXT Drill/Drivers						
½"	0 to 550/0 to 2100	1090 in.-lb.	No	—	XFD07Z	**31HJ93**
LXT Drill/Drivers						
½"	0 to 600/0 to 1900	480 in.-lb.	No	—	XFD10Z	**5WFP8**
½"	0 to 400/0 to 2000	750 in.-lb.	No	—	XFD03Z	**40K995**
LXT Right Angle Drills						
⅜"	0 to 1800	121 in.-lb.	(2) 4NNN2	3.0Ah	XAD01	**4NNJ8**
⅜"	0 to 1800	121 in.-lb.	No	—	XAD01Z	**5WFP6**
⅜"	0 to 1800	121 in.-lb.	(2) 4NNN2	3.0Ah	XAD02	**36JA01** *
⅜"	0 to 1800	121 in.-lb.	No	—	XAD02Z	**36JA02** *
LXT Screwdrivers						
¼"	0 to 4000	Not Rated	No	4.0Ah	XSF03Z	**36HZ97**
Autofeed LXT Screwdrivers						
¼"	0 to 4000	Not Rated	No	3.0Ah	XRF01Z	**5WFP9**
¼"	0 to 4000	Not Rated	No	3.0Ah	XRF02Z	**44YV62**

** Keyless chuck.*



No. 34G794



No. 34G801


No. 4NNJ3

Impact Drivers

18V

Makita

Max. No Load RPM	Max. Blows per Minute	Max. Torque	Includes	Features	Battery Capacity	Mfr. Model	Item No.
Brushless LXT Impact Drivers							
3400	3600	1500 in.-lb.	Tool Only	—	3.0Ah	XDT13Z	**34G794**
LXT Impact Drivers							
1900	2200	325 ft.-lb.	Tool Only	7/16 in. Quick Connect Hex Chuck	3.0Ah	XWT01Z	**34G801**
2800	3500	1330 in.-lb.		Compact and Ergonomic Design, Tightening Mode	2.0Ah, 3.0Ah, 4.0Ah, 5.0Ah	XPT02Z	**402D42**
2900	3500	1460 in.-lb.		LED Light	3.0Ah	XDT11Z	**5WFT5**
3200	3200	355 in.-lb.		Oil-Impulse Technology for Lower Noise and Increased Efficiency, Quick Shift Mode, 3-Speed Power, 3-Stage LED Gauge, Rapid Optimum Charger, Extreme Protection Technology for Improved Dust and Water Resistance	1.5Ah	XST01Z	**38XU31** *
3400	3600	1500 in.-lb.	(2) Batteries, Charger and Tool Case	Rubberized Soft Grip, Extreme Protection Technology	2.0Ah	XDT13R	**52YW59**
3600	3800	1500 in.-lb.	Tool Only	Quick-Shift Mode, Tightening Mode (T-Mode), Extreme Protection Technology	2.0Ah, 3.0Ah, 4.0Ah, 5.0Ah, 6.0Ah	XDT14Z	**52YW63**
LXT Right Angle Impact Drivers							
2000	3000	530 in.-lb.	(2) Batteries, Contractor Bag, 30 min. Rapid Charger	Built In LED Light	3.0Ah	XLT01	**4NNJ3**
2000	3000	530 in.-lb.	Tool Only	LED Light	3.0Ah	XLT01Z	**5WFT7**

** Oil-Impulse technology for lower noise.*

18V Makita

Impact Wrenches



No. 4NNJ4

Max. No Load RPM	Max. Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Brushless LXT Impact Wrenches						
7/16" Drive						
1800	2200	590 ft.-lb.	38XU33	5.0Ah	XWT09T	**48XT74**
1800	2200	590 ft.-lb.	No	5.0Ah	XWT09Z	**48XT81**
1/2" Drive						
1800	2200	740 ft.-lb.	38XU33	5.0Ah	XWT08T	**52YW97**
1800	2200	740 ft.-lb.	No	4.0Ah	XWT08Z	**48XT79**
2800	3500	210 ft.-lb.	(2) 38XU33	5.0Ah	XWT11T	**53KJ85**
3/4" Drive						
1800	2200	780 ft.-lb.	38XU33	5.0Ah	XWT07T	**52YW96**
1800	2200	780 ft.-lb.	No	4.0Ah	XWT07Z	**48XT77**
LXT Impact Wrenches						
3/8" Drive						
2100	3200	155 ft.-lb.	(2) 4NNN2	3.0Ah	XWT06	**4NNJ4**
2100	3200	155 ft.-lb.	No	3.0Ah	XWT06Z	**5WFV0**
1/2" Drive						
1600	2200	325 ft.-lb.	No	3.0Ah	XWT04Z	**5WFV1**
2100	3200	170 ft.-lb.	(2) 4NNN2	3.0Ah	XWT05	**4NNJ5**
2100	3200	170 ft.-lb.	No	3.0Ah	XWT05Z	**5WFT9**
LXT Right Angle Impact Wrenches						
3/8" Drive						
2000	3000	44 ft.-lb.	(2) 4NNN2	3.0Ah	XLT02	**4NNJ7**
2000	3000	44 ft.-lb.	No	3.0Ah	XLT02Z	**5WFT8**



No. 5WFR2

SDS plus

Makita

Hammer Drills

No Load RPM	Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
LXT Hammer Drill/Drivers						
0 to 600/0 to 1900	0 to 9000/0 to 28,500	480 in.-lb.	No	—	XPH10Z	**5WFR2**
0 to 400/0 to 2000	0 to 6000/0 to 30,000	750 in.-lb.	(2) 33RT43	4.0Ah	XPH03MB	**39RY26**
0 to 400/0 to 2000	0 to 6000/0 to 30,000	750 in.-lb.	No	—	XPH03Z	**40K966**
Brushless LXT Hammer Drill/Drivers						
0 to 550/0 to 2100	0 to 8250/0 to 31,500	1090 in.-lb.	(2) 38XU33	5.0Ah	XPH07TB	**39RY45**
0 to 550/0 to 2100	0 to 8250/0 to 31,500	1090 in.-lb.	(2) 33RT43	4.0Ah	XPH07MB	**31HJ86**
0 to 550/0 to 2100	0 to 8250/0 to 31,500	1090 in.-lb.	No	4.0Ah	XPH07Z	**31HJ92**
0 to 500/0 to 2000	0 to 7500/0 to 30,000	530 in.-lb.	38XU33	5.0Ah	XPH12T	**408L98**

SDS plus



No. 5WFR4

18V Makita

Rotary Hammers

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.	
Pistol Grip LXT SDS Plus Rotary Hammers						
0 to 1200	0 to 4000	38XU33	5.0Ah	XRH03T	**52YW80**	
D-Handle LXT SDS Plus Rotary Hammers						
0 to 1200	0 to 4000	No	3.0Ah	XRH03Z	**5WFR4**	
0 to 1200	0 to 4000	38XU33	5.0Ah	XRH04T	**52YW77**	
0 to 1200	0 to 4000	No	3.0Ah	XRH04Z	**5WFR5**	
L-Shape Brushless LXT SDS Plus Rotary Hammers						
0 to 950	0 to 4700	38XU33	5.0Ah	XRH011TX	**52YW88**	
0 to 950	0 to 4700	No	—	XRH01ZVX	**40K962**	‡
0 to 950	0 to 4700	No	—	XRH01Z	**40K961**	
L-Shape LXT Rotary Hammer Drill - 36V - Requires (2) 18V LXT Batteries						
0 to 1250	0 to 5000	No	—	XRH05Z	**40K990**	

‡Includes Vacuum with HEPA filter.



No. 4NNK1

18V Makita

Jigsaws

- Stroke length: 1"
- Built-in LED light

Strokes per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
0 to 2600	(2) 4NNN2	(2) 3.0Ah	XVJ03	**4NNK1**
0 to 2600	No	3.0Ah	XVJ03Z	**5WFR8**
800 to 3500	No	—	XVJ02Z	**38XU29**



18V Makita

Oscillating Tools

Orbits per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
6000 to 20,000	4NNN2	3.0Ah	XMT035	**34G805**
6000 to 20,000	No	—	XMT03Z	**24N062**



18V Makita

Reciprocating Saws

- Built-in LED light

No. 52YX06

Length of Stroke	Strokes per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
1/2"	0 to 30000 to 3000	No	—	XRJ01Z	**20UJ18**
1/2"	0 to 30000 to 3000	38XU33	5.0Ah	XRJ01T	**52YW76**
1 1/4"	0 to 28000 to 2800	No	—	XRJ04Z	**52RX10**
1 1/4"	0 to 28000 to 2800	(2) 38XU33	5.0Ah	XRJ04T	**52YX06**



No. 5WFT1

18V Makita

Circular Saws

Blade Dia.	No Load RPM	Cutting Depth @ 45°	Cutting Depth @ 90°	Battery Included	Battery Capacity	Mfr. Model	Item No.	
LXT Brushless Circular Saw								
6 1/2"	5000	1 5/8"	2 1/4"	No	—	XSH03Z	**48WA69**	
LXT Circular Saw - 36V - Requires (2) 18V LXT Batteries								
7 1/4"	4800	1 7/8"	2 5/8"	No	3.0Ah	XSH01Z	**20UJ27**	
LXT Circular Saws								
5 3/8"	3600	1 3/8"	2"	No	—	XSS03Z	**5WFT1**	
6 1/2"	3700	1 9/16"	2 1/4"	No	—	XSS01Z	**5WFT2**	**
6 1/2"	3700	1 9/16"	2 1/4"	No	—	XSS02Z	**5WFT3**	
6 1/2"	5000	1 5/8"	2 1/4"	38XU33	5.0Ah	XSH03T	**52YX10**	
6 1/2"	3700	1 9/16"	2 1/4"	38XU33	5.0Ah	XSS01T	**52YW95**	
Metal Cutting LXT Circular Saws								
5 3/8"	3600	—	2"	No	—	XSC01Z	**5WFP5**	
5 3/8"	3600	—	2"	38XU33	5.0Ah	XSC01T	**52YX08**	
5 7/8"	3900	1 5/8"	2 1/4"	No	—	XSC02Z	**46AD49**	

***** Built-in LED light.***



18V Makita

Band Saws

Surface ft. per Min. High	Rectangle Capacity	Blade Length	Battery Included	Mfr. Model	Item No.
530	4 3/4" x 4 3/4"	44 7/8"	No	XBP02Z	**5WFT0**



No. 48PR17

18V Makita

Miter Saws

- Battery not included

Blade Dia.	Miter Capacity	Features	Bevel Capacity	Mfr. Model	Item No.
7½"	0° to 60°	Automatic Speed Change Adjusts Cutting Speed and Torque During Cut for Optimum Performance	0° to 48° Left and Right	XSL02Z	**48PR17**
7½"	0° to 57°	Electric Brake, Positive Miter Stops at 0, 15, 22.5, 30, and 45	0° to 45°	XSL01Z	**13P060**



18V Makita

LXT Cut-Out Tool

Collet Capacity	No Load RPM	Battery Included	Mfr. Model	Item No.
¼", ⅛"	30,000	No	XOC01Z	**36HZ99**

No. 34G798



18V Makita

Planer & Joiner

Depth of Cut (in.)	No Load RPM	Battery Included	Mfr. Model	Item No.
LXT Planer				
5/64	14,000	No	XPK01Z	**34G798**
LXT Plate Joiner				
¾	6500	No	XJP03Z	**22UT88**



18V Makita

Sanders

Size	No Load RPM	Battery Included	Mfr. Model	Item No.
5"	7000/9500/11,000	No	XOB01Z	**40K959**



No. 6MRP9

18V Makita

Die & Angle Grinders

Wheel Dia.	No Load RPM	Battery Included	Battery Capacity	Mfr. Model	Item No.
LXT Angle Grinder					
5"	8500	No	—	XAG11Z	**401Z49**
5"	8500	(2) 38XU33	5.0Ah	XAG04T	**401Z47**
LXT Die Grinder					
1½"	25,000	No	3.0Ah	XDG01Z	**6MRP9**



No. 5WFR7

18V Makita

Nibbler & Shear

Speed Range	Steel Capacity	Stainless Steel Capacity	Battery Included	Mfr. Model	Item No.
LXT Nibbler					
0 to 1900 spm	16 ga.	18 ga.	No	XNJ01Z	**45L122**
LXT Shear					
0 to 3000 spm	18 ga.	20 ga.	No	XSJ01Z	**5WFR7**



No. 20UJ23

18V Makita

Caulk Guns

Cartridge Type	Cap.	Battery Incl.	Battery Capacity	Mfr. Model	Item No.
Sausage	20 oz.	No	3.0Ah	XGC01ZB	**20UJ23**
	10 oz.	No	3.0Ah	XGC01Z	**20UJ22**
10 Oz.		38XU33	5.0Ah	XGC01T1	**52YW87**



No. 5WFV2

18V Makita

Blowers & Fans

Description	Battery Included	Mfr. Model	Item No.
Blowers			
Less Than 100 cfm, Single Battery	Battery	DUB182Z	**5WFV2**
100 to 200 cfm, Bare Tool, Dual Battery	Duel Batteries	XBU01Z	**20KR58**
Makita Lithium-Ion			
Bare Tool	Battery	XBU02Z	**44YV60**
LXT Jobsite Fans			
3-Speed, Requires Battery BL1840	—	DCF300Z	**38XU28**

18V

Makita

Vacuums



Description	Battery Included	Mfr. Model	Item No.
Cordless Upright Vacuums			
18¾" L, 1.3 pt.	Yes	XLC02RB1W	**14F055**
18¾" L, 1.3 pt.	No	XLC02ZW	**5WFP4**
5⅝" L, 1.03 pt.	No	LC05	**45PC90**
Robotic Vacuums			
Battery Included, 0.66 gal.	No	DRC200PT	**53HY12**
Bare Tool, 0.66 gal.	No	DRC200Z	**53HY13**





12V

Makita

Batteries & Chargers

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.
12V max Battery			
Li-Ion	1.3Ah	BL1014	**4NNN1**

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Charger			
120VAC	Makita 12.0V Li-Ion Batteries	DC10WB	**4NNN3**
120VAC	Makita 12.0V Li-Ion Batteries	DC10WD	**46AD64**



12V

Makita

Combo Kits

No. of Tools	Drill	Impact Driver	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
3	48XT68	48XT82	52AZ36	(2) 52KE43	46AD64	Tool Case	CT321RX	**53KJ87**
2	48XT68	48XT82		(2) Mfr. No. BL1020B	4NNN4	Kit Box	CT226RX	**45NA36**
2	48XT68	48XT69		4NNN1	4NNN4	Contractor Bag	CT226	**45PC98**



12V

Makita

Circular Saws

Blade Dia.	No Load RPM	Arbor Hole	Cutting Depth @ 90°	Battery Included	Battery Capacity	Mfr. Model	Item No.
3⅜"	1500	15mm	1"	(2) 52KE43	2.0Ah	SH02R1	**48XT71**





18V

Makita

Worklights & Radios

- Batteries are not included

Description	Lumens	Special Features	Battery Pack Replacement	Mfr. Model	Item No.
Cordless Worklights					
Wide Area Lamp	610	Built-In USB, Rubberized Soft Grip	4NNN2	DML807	**49EK24**
Flashlight w/ Safety Strap	500	Runs Up to 50 hr. per Charge, Compact and Ergonomic Design, Blue Light	4NNN2	LXLM01	**45PC92**
Wide Area Lamp	240/120	—	4NNN2 and 4NNP2	DML801	**34G804**
LED w/Pivot Head	200	—	4NNN2	DML802	**40K964**

Features	Battery Pack Replacement	Mfr. Model	Item No.
Jobsite Radios			
Bluetooth®, MP3 Compatible, FM Mono/Stereo, Clock Settings, Volume Control, Snooze Button, Auxiliary Port, Illuminated Buttons	33RT41, 4NNN2, 33RT43, 38XU33, 52RW97	XRM06B	**420C74**



12V

Makita

Impact Drivers & Wrenches

Drive Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included	Mfr. Model	Item No.
Impact Drivers						
¼"	0 to 2600	0 to 3500	970 in.-lb.	(2) 52KE43	DT03R1	**48XT69**
¼"	0 to 2600	0 to 3500	970 in.-lb.	No	DT03Z	**48XT82**
Impact Wrenches						
⅜"	0 to 2300	0 to 3000	1000 in.-lb.	(2) 4NNN1	WT01W	**13P061**
⅜"	0 to 2300	0 to 3000	1000 in.-lb.	No	WT01ZW	**35WC97**



12V

Makita

Reciprocating Saws

Length of Stroke	Strokes per Minute	Battery Included	Mfr. Model	Item No.
½"	0 to 33000 to 3300	(2) 52KE43	RJ03R1	**48XT70**
½"	0 to 33000 to 3300	No	RJ03Z	**48XT83**



No. 54EF60

Batteries & Chargers

BOSCH **18V**

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.	Pkg. Qty.
Batteries				
SlimPack				
Li-Ion	2.0Ah	BAT612	**22DK20**	1
Li-Ion	2.0Ah	BAT612-2PK	**19TR97**	2
FatPack				
Li-Ion	6.3Ah	GBA18V63	**54EF60**	1

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Charger			
120VAC	All Bosch 18V Lithium-Ion Batteries	BC1880	**49WL53**

Battery Capacity	Includes	Mfr. Model	Item No.
Battery and Charger Kits			
6.3Ah	Fast Charger	GXS18V-01N14	**54EF69**



No. 53DM66

BOSCH **18V**

Combo Kits

½" Drill/Driver with 20-position adjustable clutch, 2 speed ranges, 600 in.-lb. max. torque
- ¼" Hex Impact Driver, 0-3200 blows per min.
- Includes battery, charger, and contractor bag
- ½" Hammer Drill, 0-27,500 blows per min.
- 6½" Circular Saw
- Reciprocating Saw, 1⅛" stroke, 0-2700 strokes per min.
- Includes light, 2 batteries, charger, and contractor bag

No. of Tools	Hammer Drill	Drill	Impact Driver	Impact Wrench	Circular Saw	Reciprocating Saw	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
Brushless Combo Kits											
2	—	—	35GP99	—	—	35GR07	(2) 22DK18	30RW48	Contractor Bag	CLPK204-181	**45MW50**
Combo Kits											
2	35KF72	—	—	—	—	35KF28	(2) 22DK18	30RW48	Contractor Bag	CLPK203-181	**45MW49**
2	49AX76	—	30RW17	—	—	—	54EF60	49WL53	Contractor Bag	GXL18V-225B24	**54EF68**
2	—	49AX71	30RW17	—	—	—	22DK20	49WL53	Contractor Bag	CLPK238-181	**53DM66**

No. 49AX67



18V

BOSCH

Drill/Drivers

Chuck Size	No Load RPM	Max. Torque	Battery Incl.	Mfr. Model	Item No.
Brushless Drill/Drivers					
½"	0 to 480/0 to 2100	663 in.-lb.	(2) 22DK18	DDH183-01	**49AX67**
½"	0 to 480/0 to 2100	663 in.-lb.	No	DDH183B	**49AX68**
½"	0 to 600/0 to 1900	531 in.-lb.	(2) 22DK18	DDS183-01	**49AX69**
Compact Drill/Drivers					
½"	0 to 500/0 to 1700	600 in.-lb.	(2) 22DK18	DDS181A-01	**48XY54**
½"	0 to 500/0 to 1700	600 in.-lb.	(2) 22DK20	DDS181A-02	**48XY55**
½"	0 to 500/0 to 1700	600 in.-lb.	No	DDS181AB	**48XY49**

No. 54EF73



18V

BOSCH

Hammer Drills

No Load RPM	Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Brushless Hammer Drill/Drivers						
0 to 480/0 to 2100	0 to 31,500	663 in.-lb.	(2) 22DK18	5.0Ah	HDH183-01	**49AX76**
Compact Hammer Drill/Drivers						
0 to 500/0 to 1700	0 to 28,500	600 in.-lb.	(2) 22DK18	4.0Ah	HDS181A-01	**48XY57**
0 to 500/0 to 1700	0 to 28,500	600 in.-lb.	No	6.0Ah	HDS181AB	**48XY53**
0 to 600/0 to 1900	0 to 31,500	531 in.-lb.	(2) 22DK18	4.0Ah	HDS183-01	**49AX79**
0 to 600/0 to 1900	0 to 31,500	531 in.-lb.	(2) 22DK20	2.0Ah	HDS183-02	**49AX80**
0 to 600/0 to 1900	0 to 31,500	531 in.-lb.	No	4.0Ah	HDS183B	**49AX81**
Hammer Drill/Drivers						
0 to 2100	0 to 32,500	663 in.-lb.	(2) 54EF60	6.3Ah	HDH183-B24	**54EF73**



No. 22DL14

18V BOSCH

Right Angle Drills

Chuck Size	No Load RPM	Max. Torque	Battery Incl.	Mfr. Model	Item No.
½"	0 to 1150	160 in.-lb.	22DK18	ADS181-101	**22DL14**



BOSCH

18V SDS plus

Rotary Hammers

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
0 to 890	0 to 4350	(2) 54EF60	6.3Ah	GBH18V-26K24	**54EF67**
0 to 890	0 to 4350	No	—	GBH18V-26	**53DM69**

No. 4WLK6



No. 197MV6



18V BOSCH

Impact Drivers & Wrenches

- Socket-Ready impact drivers accept ¼" hex and ½" square drive sockets

Drive Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included	Battery Capacity	Mfr. Model	Item No.
Impact Drivers							
¼"	0 to 2800	0 to 3200	1500 in.-lb.	(2) 22DK20	2.0Ah	25618-02	**4WLK6**
Impact Wrenches							
½"	0 to 1900	0 to 2100	500 ft.-lb.	—	—	IWHT180B	**45MW65**
¼" Hex, ½" Square	—	—	1800 in.-lb.	55EX99	4.0Ah	GDX18V-1800CB25	**197MV6**



18V BOSCH

Jig Saw

Length of Stroke	Strokes per Minute	Battery Included	Mfr. Model	Item No.
1"	0 to 2700	No	JSH180B	**35GR09**



18V

Oscillating Tool

BOSCH

Orbits per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
8000 to 20,000	No	6.3Ah	GOP18V-28N	**54EF61**



No. 49WL54

18V BOSCH

Grinder/Cut-Off Tools & Planers

Tool Length	No Load RPM	Wheel Dia.	Battery Included	Battery Capacity	Mfr. Model	Item No.
Grinder/Cut-Off Tools						
11"	10,000	4½"	No	2.6Ah	GWS18V-45	**49WL54**
11"	10,000	5"	No	2.6Ah	GWS18V-50	**49WL55**

Cutting Depth	No Load RPM	Battery Included	Mfr. Model	Item No.
Planers				
0" to 1⁄16"	14,000	No	PLH181B	**35KF95**



No. 54EF80



No. 423N75



No. 48XY50



No. 45MW58

18V BOSCH

Jobsite Lights and Radio

Item	Base Style	Light Output Mode	Lumens	Use With Battery	Mfr. No.	Tool Wt.	Mfr. Model	Item No.
Floodlight	Swivel	High	1900	BAT612, BAT620		3.5 lb.	GLI18V-1900N	**54EF80**
Rechargeable Worklight	Hook	High	300	BAT612, BAT620		0.1 lb.	GLI18V-300N	**423N75**
LED Worklight	Floor Stand with Handle	High / Medium / Low	42	625592000		0.7 lb.	GLI18V-420B	**48XY50**
Jobsite Radio	Bluetooth Connectivity Up to 150 ft., Four-Way Speakers and Subwoofer, Four-Way Power Outlets, AM/FM Radio with 20 FM and 10 AM Presets, Equalizer Customization, Weather and Dust Resistant, Illuminated LCD Display						PB360C	**45MW58**

12V BOSCH Batteries & Chargers



No. 462R88



No. 55JE03

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.
Batteries			
Li-Ion	6.0Ah	GBA12V60	**462R88**
Li-Ion	2.0Ah	BAT414	**22DK17**

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Charger			
120VAC	Bosch 12V Batteries	GAL12V-20	**55JE03**

12V BOSCH Combo Kits



No. 19TT04



No. 4WLH7

Drill	Impact Driver	Screwdriver	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
Combo Kits							
46U403	46U395	—	(2) 22DK17	30RW47	Contractor Bag	CLPK22-120	**19TT04**
—	1XPF9	5EEW5	(2) 22DK17	30RW47	Contractor Bag	CLPK27-120	**4WLH7**

12V BOSCH Drill/Drivers & Screwdrivers



No. 46U403



No. 5EEW5

Chuck Size	No Load RPM	Max. Torque	Battery Included	Mfr. Model	Item No.
Brushless Drill/Drivers					
⅜"	0 to 400/0 to 1300	180 in.-lb.	(2) 22DK17	PS32-02	**30RW25**
⅜"	0 to 400/0 to 1300	180 in.-lb.	No	PS32BN	**30RW11**
Drill/Drivers					
⅜"	0 to 350/0 to 1300	265 in.-lb.	(2) 22DK17	PS31-2A	**5EEW6**
⅜"	0 to 350/0 to 1300	265 in.-lb.	No	PS31BN	**46U403**
Right Angle Drill					
⅜"	0 to 1300	115 in.-lb.	22DK17	PS11-102	**19TT39**
⅜"	0 to 1300	115 in.-lb.	No	PS11BN	**46U427**
Brushless Screwdrivers					
¼"	0 to 400/0 to 1300	180 in.-lb.	(2) 22DK17	PS22-02	**30RW24**
¼"	0 to 400/0 to 1300	180 in.-lb.	No	PS22BN	**30RW10**
Screwdrivers					
¼"	0 to 350/0 to 1300	265 in.-lb.	(2) 22DK17	PS21-2A	**5EEW5**
¼"	0 to 350/0 to 1300	265 in.-lb.	No	PS21BN	**46U402**

12V BOSCH Impact Drivers & Hammer Drills



No. 6YHR3



No. 46U397

Drive Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included	Mfr. Model	Item No.
Impact Drivers						
¼"	0 to 2600	0 to 3100	930 in.-lb.	(2) 22DK17	PS41-2A	**6YHR3**
¼"	0 to 2600	0 to 3100	930 in.-lb.	No	PS41BN	**46U395**
¼"	0 to 2600	0 to 3100	975 in.-lb.	No	PS42BN	**49WL56**
¼"	0 to 2600	0 to 3100	975 in.-lb.	(2) 22DK17	PS42-02	**49WL57**
⅜"	0 to 2600	0 to 3100	85 ft.-lb.	No	PS82BN	**49WL58**
⅜"	0 to 2600	0 to 3100	85 ft.-lb.	(2) 22DK17	PS82-02	**49WL59**
Hammer Drills						
⅜"	0 to 380/0 to 1300	0 to 19,500	265 in.-lb.	(2) 22DK17	PS130-2A	**19TT41**
⅜"	0 to 380/0 to 1300	0 to 19,500	265 in.-lb.	No	PS130BN	**46U397**

12V BOSCH Reciprocating Saws

These 12V Max cordless reciprocating saws are compact and easy to handle. Small grip size and light weight make it ideal for over head use. Kit No. 19TT42 includes saw, battery and charger, 2 blades, and carrying bag.



No. 19TT42



No. 46U426

Description	Length of Stroke	No Load Strokes/ Minute	Cutting Action	Battery Capacity	Shoe Design	Mfr. Model	Item No.
12.0V Cordless Reciprocating Saw Kit Includes PS60 Saw, Battery 22DK17 and Charger 19TT52	9/16"	0 to 3000	Straight	2.0Ah	Fixed	PS60-102	**19TT42**
12.0V Cordless Reciprocating Saw, Bare Tool						PS60BN	**46U426**

12V BOSCH 12V Max Barrel-Grip Cordless Jig Saw



No. 39UK50

Blade Type	Cutting Action	Length of Stroke	Included Charger	Battery Included/ Bare Tool	Mfr. Model	Item No.
T-Shank	Orbital	¾"	No	Bare Tool	JS120BN	**39UK50**

See Grainger.com® for Click & Go™ L-Boxx® and L-RACK items.

For 12V Batteries, see page 692.



12V BOSCH

Vacuum

Description	Battery Included	Mfr. Model	Item No.
Includes Crevice Nozzle and Filter	No	VAC120BN	36WH89



36V BOSCH

Batteries & Charger

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.
36V Batteries			
Li-Ion	4.0Ah	BAT838	39RY27
Charger Input Voltage	**For Use With**	**Mfr. Model**	**Item No.**
Charger			
120VAC	Bosch 36V Batteries	BC3680	39RY37



36V BOSCH

Reciprocating Saws

Length of Stroke	Strokes per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
1⅛"	0 to 2400/0 to 30000 to 2400/0 to 3000	No	—	1651B	30RW40





12V BOSCH

Light

Description	Lumens	Batteries Included	Mfr. Model	Item No.
Cordless Flashlight, LED	330	No	FL12	35KF69
Rechargeable Worklight, LED	300	No	GLI12V-300N	423N74



SDS plus 36V BOSCH

Rotary Hammer

No Load RPM	Blows per Minute	Battery Included	Battery Capacity	Mfr. Model	Item No.
0 to 940	0 to 4100	(2) 39RY27	4.0Ah	RH328VC-36K	49AX83

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**

20V PORTER CABLE

Batteries & Chargers

- High energy flow cells improve tool performance
- No memory and minimal self-discharge



No. 25DT68

Cordless Tool Battery Type	Battery Capacity	Mfr. Model	Item No.
Batteries			
Li-Ion	2.0Ah	PCC682L	**32ZU54**
Li-Ion	4.0Ah	PCC685L	**25DT68**

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Chargers Kits			
120VAC	Mfr. No. PCC681L, PCC680L, PCC685L	PCC692L	**32ZU55**

20V MAX LINKED PORTER CABLE

20V Tool Advantages

- High performance motor
- LED worklight
- Battery fuel gauge
- Ergonomic overmold grip



20V PORTER CABLE

Combo Kits

- ½" Drill/Driver with ratcheting chuck, 2-speed, 0-400/0-1600 RPM
- ¼" Hex Impact Driver with LED light, 0-3100 blows per min.
- Includes 2 batteries, charger, and contractor bag



No. 21RV39



No. 40AL40

Key No. of Tools	Drill	Impact Driver	Circular Saw	Reciprocating Saw	Light	Battery Included	Charger	Carrying Case	Mfr. Model	Item No.
1.5Ah Combo Kits										
2 2	21RU22	20GV95	—	—	—	(2) 21RU24	21RU25	—	PCCK602L2	**21RV39**
2 2	20GV96	—	—	25DT62	—	21RU24	—	—	PCCK603L2	**20GV97**
2 2	21RU22	20GV95	—	—	—	(2) 21RU24	21RU25	—	PCCK602L2	**21RV39**
20.0V Combo Kits										
3 2	20GV96	Mfr. No. PCC641	—	—	—	(2) Mfr. No. PCC681L	Mfr. No. PCC691	Contractor Bag	PCCK604L2	**45KE19**
3 4	20GV96	—	25DT63	25DT62	25DT67	(2) Mfr. No. PCC681L	Mfr. No. PCC691	Contractor Bag	PCCK616L4	**40AL40**

20V PORTER CABLE

Drill/Drivers

- 2-speed gearbox delivers power for large and small jobs
- Compact and lightweight for working in tight areas
- Brushless motor provides 50% more runtime



No. 49EN13

Chuck Size	No Load RPM	Max. Power	Battery Included	Mfr. Model	Item No.
Brushless Drill/Drivers					
½"	0 to 450/0 to 1800	370 MWO	21RU24	PCCK607LB	**49EN13**
Drill/Drivers					
½"	0 to 400/0 to 1600	330UWO	(2) 21RU24	PCCK600LB	**21RU22**
½"	0 to 350/0 to 1500	283UWO	(2) Mfr. No. PCC681	PCC601LB	**20GV96**

20V PORTER CABLE

Hammer Drills

- 2-speed gearbox for high torque or high speed applications
- ½" metal ratcheting chuck
- LED light and battery fuel gauge



No. 30RV99

No Load RPM	Blows per Minute	Max. Torque	Battery Included	Mfr. Model	Item No.
Brushless Hammer Drill					
0 to 1500	0 to 25,500	265 in.-lb.	Mfr. No. PCC681L	PCC621LB	**49EN10**
Hammer Drills					
0 to 400/0 to 1600	0 to 27,200	255 in.-lb.	(2) 21RU24	PCC620LB	**30RV99**
0 to 400/0 to 1600	0 to 27,200	255 in.-lb.	No	PCC620B	**30RV98**



No. 49EN07



No. 49EN14

20V PORTER CABLE

Impact Wrenches and Drivers

IMPACT WRENCHES

- ½" hog ring
- 330 ft.-lb. of torque

IMPACT DRIVERS

- High performance transmission for quick fastening
- Easy load chuck
- No. 49EN14 features brushless motor with 50% more runtime

Drive Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included	Mfr. Model	Item No.
Impact Wrenches						
½"	0 to 1650	0 to 2600	330 ft.-lb.	No	PCC740B	**49EN07**
½"	0 to 1650	0 to 2600	330 ft.-lb.	Mfr. No. PCC685L	PCC740LA	**49EN08**
Impact Drivers						
¼"	0 to 2700	0 to 3100	1400 in.-lb.	Mfr. No. PCC680L	PCCK647LB	**49EN14**
¼"	0 to 2900	0 to 3100	1450 in.-lb.	(2) 21RU24	PCCK640LB	**21RU23**
¼"	0 to 2900	0 to 3100	1495 in.-lb.	No	PCC640B	**20GV95**



20V

PORTER CABLE

Reciprocating Saw

- Reciprocating saw has variable-speed trigger and tool-free blade release

Length of Stroke	Strokes per Minute	Battery Included	Mfr. Model	Item No.
1"	0 to 30000 to 3000	No	PCC670B	**25DT62**



20V

PORTER CABLE

Circular Saw

- Beveling shoe pivots up to 50°

Blade Dia.	No Load RPM	Cutting Depth @ 90°	Battery Included	Mfr. Model	Item No.
6½"	4000	2⅛"	No	PCC660B	**25DT63**



20V

PORTER CABLE

Oscillating Tool

- Variable speed dial
- LED worklight
- Includes 20 accessories and storage box

Orbits per Minute	Battery Included	Mfr. Model	Item No.
8000 to 18,000	No	PCC710B	**25DT65**



20V

PORTER CABLE

Cut-Off Tool

- Cast metal gear housing dissipates heat during use
- Tool-free guard

Size	No Load RPM	Battery Included	Mfr. Model	Item No.
4½"	8500	No	PCC761B	**25DT66**

No. 49EN03



20V

PORTER CABLE

Cordless Nailers

- No fuel cells; 100% cordless
- Tool-free settings/adjusting
- 16-ga. cordless straight nailer

Fastener Range	Magazine Cap.	Battery Included	Mfr. Model	Item No.
1" to 2½"	100	Mf. No. PCC680L	PCC792LA	**49EN03**
1" to 2½"	100	No	PCC792B	**49EN02**



20V

PORTER CABLE

Worklight

- 4 LED bulbs deliver 120 lumens
- Adjustable pivoting head

Description	Battery Included	Mfr. Model	Item No.
LED Cordless Flashlight	No	PCC700B	**25DT67**

No. 39GC07



20V

PORTER CABLE

Jobsite Radios

Both radios run on Li-ion batteries (not included). Compact, easy-to-transport radio No. 39GC07 is designed with high-performance speakers, enhanced sound quality with equalizer, and Bluetooth® compatibility. Features AM/FM/AUX modes. No. 40TP86 Bluetooth® speaker lets you wirelessly stream music from any smart device. Includes AC power wall adaptor as an alternative power source and a built-In auxiliary connection for a direct source to music.

Description	Battery Included	Mfr. Model	Item No.
Jobsite Radio	No	PCC771B	**39GC07**
Jobsite Bluetooth Speaker	No	PCC772B	**40TP86**



20V

PORTER CABLE

Jigsaw

- Jigsaw has 3 orbital settings and tool-free blade release

Length of Stroke	Strokes per Minute	Battery Included	Mfr. Model	Item No.
¾"	0 to 2500	No	PCC650B	**25DT64**

DEWALT
Milwaukee
Makita


No. 6KX33


No. 4LF93


No. 4LF85

Corded Reversing Screwdrivers/Screwguns

Use for self-drilling fasteners in steel, deck/subfloor installation, and drywall. Feature ¼" hex bit shank size and variable speed reverse.

Application	Tool Clutch	No Load RPM	Amps	Includes	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
For Self Drilling Fasteners into Drywall With #8 Max Screw Size	Standard	0 to 4000	6.3	Metal Gear Housing Set, Set-and-Forget Nosepiece, Soft Grip Handle	11½"	3.1 lb.	DeWalt	DW272	**4NZ46**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #8 Max Screw Size	Adjustable Positive	0 to 4000	6.5	(1) Drywall Screwdriver; (1) Belt Clip	12¾"	3.5 lb.	Milwaukee	6742-20	**6KX33**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #14 (¼") Max Screw Size	Adjustable Positive	0 to 2500	6.5	(1) Self Drill Fastener Screwdriver; (1) Belt Clip	12⅛"	3.7 lb.	Milwaukee	6790-20	**6KX35**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #14 (¼") Max Screw Size In Production And Manufacturing Environments	Positive	0 to 2500	6.5	2-Finger Trigger Switch, Helical Cut Steel, Heat-Treated Gears	11½"	3.3 lb.	DeWalt	DW284	**4LF93**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #14 (¼") Max Screw Size	Adjustable Snap Action	0 to 2500	6.5	(1) Self Drill Fastener Screwdriver; (1) Belt Clip; (1) Carrying Case	12⅛"	3.75 lb.	Milwaukee	6791-21	**6KX36**
Self Drilling Screws In Roofing, Siding, Sheet Metal Fabrication, Truss & Floor Systems	Adjustable Positive	0 to 2500	6.5	(1) Metal Fastening Adjustable Clutch Screwdriver; (1) Belt Clip	12¼"	3.8 lb.	Milwaukee	6780-20	**1XEL7**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #14 (¼") Max Screw Size	Auto Adjustable	0 to 2500	6.5	Soft Grip Handle, Clutch Override, Mag Bit Holder	11½"	3.7 lb.	DeWalt	DW268	**4LF85**
For Self Drilling Fasteners In Steel, Deck/Subfloor Installation And Drywall With #14 (¼") Max Screw Size	Adjustable Positive	0 to 1200	6.5	¼" Bit Tip Holder, #2 Phillips Bit Tip, 6-7 3½" Slotted Bit, 10-12 3½" Slotted Bit, Belt Clip	12¾"	3.6 lb.	Milwaukee	6580-20	**6KX25**

Auto-Feed Screwdrivers

SENCO

Drive collated screws on flexible plastic belts. Senco tools feature standard depth-of-drive clutches, variable speed reverse, and trigger lock; include drywall and wood nosepieces, drive bits, and bag. All cordless tools include two 18V Li-Ion batteries and charger.


No. 22A489

No Load RPM	Max. Torque	Mfr. Model	Item No.
18.0 VV Cordless Screwdrivers			
2500	90 in-lb	DS212-18V	**22A490**
2500	90 in-lb	DS312-18V	**22A491**
5000	60 in-lb	DS215-18V	**22A489**
Batteries For Senco Cordless Screwdrivers			
18.0V Li-Ion Battery		VB0155	**48J273**
Corded Screwdrivers			
2500	100 in-lb	DS232-AC	**22A487**
5000	50 in-lb	DS235-AC	**22A486**
Corded Screwdriver Kits			
Drive Bit (Phillips), Drive Bit (Rex), Drive Bit (Square), Extension Pole and Power Grip Handle, Mfr. No. DS320 Attachment, Storage Bag, 0 to 4000 No Load RPM		DS440AC	**22A512**
Drive Bit (Phillips), Drive Bit (Rex), Drive Bit (Square), Extension Pole and Power Grip Handle, Mfr. No. DS320 Attachment, Storage Bag, 0 to 2500 No Load RPM		DS425AC	**22A513**

▶CHOOSE: Length	PHILLIPS Item No.	SQUARE Item No.	REX DRIVE Item No.
Bits, Pk. of 2			
171mm, 192.2mm	**H4376**	—	**H4378**
171mm, 187mm, 192.2mm	—	**H4377**	—

L (in.)	Item No.
Screws, Pk. of 1000	
Drywall to Wood	
1¼	**22A492**
1⅝	**22A493**
1⅝	**22A494**
2	**22A495**
Drywall to Steel	
1¼	**22A496**
Interior Wood to Wood	
1¾	**22A501**
3	**22A502** *
Exterior Wood to Wood	
2½	**22A505** *
3	**22A506** *

L (in.)	Item No.
Wood to Steel	
1¾	**22A503**
Steel to Steel	
¾	**22A511**
1	**22A508**
Metal Framing	
½	**22A509**
Multi-Material Screw, Pk. of 1000	
Cement Board	
1¼	**22A504**

** Pk. of 800.*

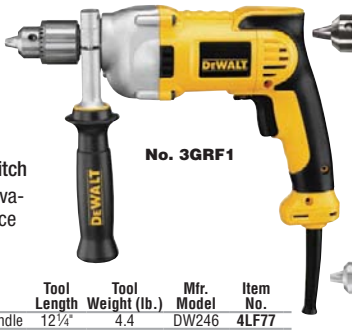

No. 22A512

DEWALT

Pistol-Grip Drills

- Variable speed reversing trigger switch

Nos. 2EKR8 and 3GRF2 feature an innovative mid-handle design for better balance and control.


No. 3GRF1


No. 4LF70


No. 53DR71


No. 2EKR7

Chuck Size	No Load RPM	Amps	Drill Chuck Type	Includes	Tool Length	Tool Weight (lb.)	Mfr. Model	Item No.
½"	0 to 600	7.8	Keyless	Soft Grip Side Handle	12¼"	4.4	DW246	**4LF77**
½"	0 to 1000	8.5	Keyed	Side Handle	11⅛"	4.2	DW235G	**4LF73**
½"	0 to 1250	10.0	Keyless	360° Side Handle w/Soft Grip	11"	5.2	DWD215G	**3GRF2**
½"	0 to 1250	10.0	Keyed	360° Side Handle w/Soft Grip	12"	4.9	DWD210G	**3GRF1**
½"	0 to 1200	10.5	Keyed	Holder	11"	4.9	DWD220	**5YAW9**
¼"	0 to 4000	6.7	Keyed	—	10¾"	3.2	DW217	**4LF67**
⅜"	0 to 1250	6.7	Keyless	—	10½"	3.3	DW222	**4LF69**
⅜"	0 to 1250	7.0	Keyed	Chuck Key	10½"	3.6	DW223G	**4LF70**
⅜"	0 to 2800	7.0	Keyed	Chuck Key	10"	3.6	DWE1014	**53DR71**
⅜"	0 to 2500	8.0	Keyless	Heavy-Duty Kit Box	12¾"	4.1	DWD115K	**2EKR8**
⅜"	0 to 2500	8.0	Keyless	Heavy-Duty Kit Bag, Belt Hook	12¾"	4.1	DWD110K	**2EKR7**
⅜"	0 to 2500	8.0	Keyless	Soft Grip Handle, Belt Hook	9½"	4.1	DWD112	**2VDJ8**

For impact sockets, see page 774

Milwaukee

Corded Right Angle Drills

Drills are reversing, and include chuck key and holder.







Chuck Size	No Load RPM	Amps	Gear Reduction	Spindle Size	Switch Type	Handle Style	Features	Tool Length	Tool Wt.	Mfr. Model	Item No.
Corded Right Angle Drills											
⅜"	0 to 1300	3.5	Double	½"-20	Paddle	Straight	3 15/16" from Chuck to Back	11"	3.9 lb.	0370-20	**1XHH9**
½"	0 to 300/0 to 1200	7.5	Triple	⅝"-16	Trigger	Straight	2-Position Pipe Handle, 3-Position Spade Handle	6½"	11.5 lb.	1675-6	**6Z041**
Corded Right Angle Drill Kits											
½"	0 to 335/0 to 750	7.0	Quadruple	½"-20	Trigger	D-Handle	Side Handle, Carrying Case, Head and Handle Swivel 360 Degrees	16¼"	10.3 lb.	3107-6	**6Z338**
½"	0 to 600/0 to 900	7.0	Quadruple	½"-20	Trigger	D-Handle	Side Handle, Carrying Case, Head and Handle Swivel 360 Degrees	16¼"	10.3 lb.	3002-1	**2Z728**
½"	0 to 300/0 to 1200	7.5	Triple	⅝"-16	Trigger	Straight	2-Position Pipe Handle, 3-Position Spade Handle, Case	6½"	11.5 lb.	1676-6	**2Z965**
½"	0 to 450/0 to 1750	13.0	Triple	⅝"-16	Trigger	Straight	Rotating Rear Handle, Clutch, T-Bar Front Handle, Side Handle, Gear Shift Knob, and Case	22"	14.7 lb.	1680-21	**3TY44**



Milwaukee DEWALT

Spade and D-Handle Drills

Reversing drills with triple gear train.





Chuck Size	No Load RPM	Amps	Includes	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
Spade Handle								
½"	450	7.0	Top and Back Handle	12¼"	11.4	Milwaukee	1660-6	**2Z727**
½"	0 to 550	9.0	2-Position Rear and 3-Position Side Handles and Holder	15½"	7.5	DeWalt	DW130V	**4YY99**
½"	650	7.0	Top and Back Handle	12¼"	11.2	Milwaukee	1610-1	**6Z042**
¾"	350	10.0	Top and Back Handle	18½"	19.0	Milwaukee	1854-1	**6Z330**
D-Handle								
½"	0 to 330/0 to 1300	11.0	Bail Handle, Side Handle	15¾"	11.7	DeWalt	DWD460K	**3MUY1**
Angle Drive Kit								
Includes 33° 30° Angle Extension Tube, Side Handle, Drive Shaft with Hex Sockets on Both Ends, and 2 Clamping Collars; For Use with Nos. 2Z726 and 6Z324						Milwaukee	48-06-2860	**4AC31**

Makita Milwaukee DEWALT

Corded Impact Wrenches

Deliver full power in reverse. Metal gear housing.







Drive Size	Max. Torque (ft.-lb.)	Blows per Minute	No Load RPM	Amps	Anvil Type	Features	Tool Length	Tool Weight (lbs.)	Brand	Mfr. Model	Item No.
Impact Wrenches											
½"	300	2600	1800	7.0	Detent Pin	AC/DC Switch, Soft Grip Handle	11⅝"	6.0	Milwaukee	9070-20	**6KX37**
½"	300	2600	1800	7.0	Friction-Ring w/thru Hole	AC/DC Switch, Soft Grip Handle	11⅝"	6.0	Milwaukee	9071-20	**6KX38**
½"	300	1000-2600	600 to 1800	7.0	Detent Pin	AC Only, VSR, Soft Grip Handle	11⅝"	6.0	Milwaukee	9072-20	**6KX39**
½"	300	1000-2600	600 to 1800	7.0	Detent Pin	AC Only, VSR, Soft Grip Handle	11⅝"	6.0	Milwaukee	9072-22	**6KX40**
½"	345	0 to 2700	0 to 2100	7.5	Detent Pin	Forward/Reverse Switch	11¼"	7.0	DeWalt	DW292	**4JB72**
½"	345	0 to 2700	0 to 2100	7.5	Detent Pin	Forward/Reverse Switch	11¼"	7.0	DeWalt	DW292K	**4JB73**
½"	345	0 to 2700	0 to 2100	7.5	Hog-Ring	Forward/Reverse Switch, Soft Grip Handle	11¼"	7.0	DeWalt	DW293	**4JB74**
¾"	345	0 to 2700	0 to 2100	7.5	Detent Pin	Forward/Reverse Switch, Soft Grip Handle	11¼"	7.0	DeWalt	DW294	**4JB75**
¾"	380	2500	600 to 1800	7.0	Friction-Ring w/thru Hole	AC/DC Switch, Soft Grip Handle	11⅝"	6.2	Milwaukee	9075-20	**6KX41**
1"	738	0 to 1500	0 to 1400	12.0	Detent Pin	Rubber Bumper	15"	19	Makita	TW1000	**1GUB3**
Shear Wrench for TC Bolts											
⅝", ¾", ⅞"	593 lbs	0 to 2700	0 to 18	12.0	Detent Pin	Rubber Bumper	9 13/16"	10.6	Makita	6922NB	**4DZJ2**

IRWIN DEWALT Milwaukee

Impact Bit Sets

No. of Pieces	Includes	Brand	Item No.
Impact Driver Bit Sets			
55	(10) 1" Phillips Bits, (2) #1 Phillips, (6) #2 Phillips, (2) #3 Phillips, (10) 1" Square Bits, (2) Square Bits, (6) #2 Square Bits, (2) #3 Square Bits, (5) 1" Slotted Bit, #6 Slotted Bit, (3) #8 Slotted Bit, #10 Slotted Bit, (5) Star Bits, T15, (2) T20, (2) T25, Magnetic Bit Tip Holder	DeWalt	**423J98**
Impact Socket Sets			
10	¼" Hex to ½" Square Adapter ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, ⅞"	Milwaukee	**19F372**
11	(2) ¼", ⅜" Adapters 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, ½"	DeWalt	**5XFA2**
12	5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾"	Milwaukee	**5ECE1**
12	(2) ¼", ½" Adapters 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞"	DeWalt	**5XFA3**
13	¼'' Hex to ¼'' Square Adapter 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	Milwaukee	**19F373**
Magnetic Drive Guide Sets			
7	3" Magnetic Drive Guide, (2) PH2 Insert Bits, SQ2 Insert Bit, T20 Insert Bit, (2) T25 Insert Bits	Milwaukee	**419J71**
Pivot Holder and Bit Sets			
11	(1) Phillips Bit 1" P1, (1) Phillips Bit 1" P2, (1) Phillips Bit 1" P3, (1) Slotted Bit 1" SL ¼", (1) Slotted Bit 1" SL ⅛", (1) Slotted Bit 1" SL 3/16", (1) Slotted Bit 1" SL 9/32", (1) Square Bit 1" SQ, (1) Square Bit 1" SQ2, (1) Bit 1" T25, (1) Shockwave 30 Degree Knuckle Pivoting Bit Holder	Milwaukee	**10Z808**
Screwdriver Bit Sets			
18	1" Insert Bits (Phillips: P1, P2, P3, Square: Sq1, Sq2, Slotted: SL3/16", SL1/4") 2" Power Bits (Phillips: (2) P2, P3 Square: (2) SQ2, SQ3 Torx: T15, T20) 3½" Power Bits (Phillips: P2,square: Sq2) (1) Shockwave Compact Magnetic Bit Holder, Case w/Bulk Storage	Milwaukee	**10Z783**
20	(2) 2" PH#2, 2" SQ#2, 1" SL#8, (4) 1" PH#2, (2) 1" PH#3, 1" SQ#1, (2) 1" SQ#2, 1" 2" SL8, ¼, 5/16, ⅜ Nutsetters, ⅛" and 3/16" Impact Drill Bits, Pivoting Magnetic Holder	DeWalt	**5XFA6**
25	(7) 1" Phillips Bits, (3) 1" Torx Bits, 1" Slotted Bits, (3) 1" Square Bits, (3) 2" Phillips Bits, (2) 2" Torx Bits, 2" Square Bit, 3½" Phillips Bit, Bit Tip Holder, Magnetic Sleeve	DeWalt	**423J96**
26	(1) Phillips Bit 1" P1, (1) Phillips Bit 1" P2, (3) Phillips Bit 1" P3, (1) Square Bit 1" SQ1, (2) Square Bit 1" SQ2, (1) Square Bit 1" SQ3, (2) TORX(R) Bit 1" T20, (2) TORX(R) Bit 1" T25, (1) TORX(R) Bit 1" T30, (1) ¼" Hex to ⅜" Square Adapter, (1) ¼" Magnetic Nut Driver, (1) Phillips Bit 2" P2, (1) Square Bit 2" SQ2, (1) TORX(R) Bit 2" T20, (1) TORX(R) Bit 2" T25, (1) Slotted Bit 1" SL 3/16", (1) ⅜" Drive: ½" Socket, (1) ⅜" Drive 9/16" Socket, (1) ⅜" Magnetic Nut Driver, (1) 5/16" Magnetic Nut Driver, (1) SHOCKWAVE(TM) Compact Magnetic Bit Holder	Milwaukee	**19RK07**
32	Quick Change Drill Bits: 1/16, 5/64, 3/32, 7/64, (2)1/8, 9/64, 5/32, 3/16, 7/32, ¼", 1" Insert Bits: (20) PH2, ¼" Quick Change Bit Holder 2.5" OAL	IRWIN	**34F743**
34	(1) 1" PH1, (4) 1" PH2, (4) 1" PR2, (1) 1" PH3, (1) 2" PH2, (1) 3½" PH2, (1) 1" SQ1, (4) 1" SQ2, (1) 1" SQ3, (1) 2" SQ2, (1) 3½" SQ2, (1) 1" SL6, (2) 1" SL8, (1) 1" SL10, (1) 2" SL8, (1) 3½" SL8, 1 Each: T15, T20, T25, T30 1" Torx Bits, 1 Each: 1	DeWalt	**2VDK2**
35	(28) 1" Insert Bits, (4) 2" Power Bits, (2) Nutsetters, Slim Quick Change Holder with Magnetic Sleeve	DeWalt	**465T65**
35	Impact Ready Socket Adapters ⅜", 7/16", ½", 9/16", Impact Ready ¼" Hex Shank Adapter, Impact Ready Nutsetters 5/16", ⅜", ¼", 3" Impact Ready Screw Lock Holder, 2" PH2 Impact Ready Bits, 1" Square Impact Ready Bits: SQ1, (4) SQ2, SQ3, 1" Philips	DeWalt	**20UH15**
38	(8) 1 In. PH2, (8) 1 In. Drywall Bits -PR2, (1) PH1, (1) PH3, (1) 1 In. SQ1, (4) 1 In. SQ2, (1) 1 In. SQ3; 2 In. (5) #2 Phillips Power Bits; (2) Nutdrivers ¼ and 5/16 In., ¼ Hex Shank; (1) ¼ to ⅜ In. Socket Adapter, (4) ⅜ In. Drive Deep Sockets	DeWalt	**2AEX8**
40	⅜" Nutsetter, ¼" Nutsetter, 5/16" Nutsetter, Impact Ready Sleeve, 3" Impact Ready Screw Lock Holder, 6-2" PH2 Impact Ready Bit, 2" SQ2 Impact Ready Bit, 2" T25 Impact Ready Bit, 2" SL8 Impact Ready Bit, (4) 1" PH2 Bit, (2) 1" SL8 Impact Ready Bit, 1"	DeWalt	**20UH16**
40	(1) ¼" SHOCKWAVE(TM) Hex Drive Bit, (1) 3/16" SHOCKWAVE(TM) Hex Drive Bit, (1) ⅛" Drill Bit, (1) Hex Bit 1" ¼", (1) Hex Bit 1" ⅛", (1) Hex Bit 1" 3/16", (1) Hex Bit 1" 9/32", (1) Phillips Bit 1" P1, (3) Phillips Bit 1" P2, (1) Phillips Bit 2" P2, (1) Phillips Bit 2" P3, (1) Phillips Reduced 1" PR2 Bit, (1) Slotted 1" #10 Bit, (1) Slotted 1" #8 Bit, (1) Slotted 2" #10 Bit, (1) Square Bit 1" SQ1, (2) Square Bit 1" SQ2, (1) Square Bit 1" SQ3, (1) Square Bit 2" SQ2, (1) Square Bit 2" SQ3, (1) TORX(R) Bit 1" T15, (1) TORX(R) Bit 1" T20, (2) TORX(R) Bit 1" T25, (1) TORX(R) Bit 2" T20, (2) TORX(R) Bit 2" T25, (1) ¼" Magnetic Nut Driver, (1) ⅜" Magnetic Nut Driver, (1) 5/16" Magnetic Nut Driver, (1) ½" Socket Adapter , (1) ⅜" Socket Adapter, (1) SHOCKWAVE(TM) Compact Magnetic Bit Holder	Milwaukee	**45EU85**



No. 10Z783



No. 34F743



No. 20UH15



No. 45L154



No. 4WM44



No. 36FX65



No. 1VXP2

DEWALT Milwaukee IRWIN® WESTWARD

Drilling and Screwdriving Sets

- ¼" shank bits

No. of Pieces	Includes	Brand	Item No.
Countersink Drill Bit Set			
	(3) Countersinks: #6, #8 and #10	DeWalt	**4WM50**
Drill/Drive Sets			
15	No. 4WM47 Rapid Load Holder; Magnetic Drive Holder; Hex Shank Drill Bits: ⅛ and ¼"; Bit Tips: (2) 1" and 1" #1 Square Recess; Insert Bit Tips: #1, and (4)1" #2 Phillips; #8 Slotted; Power Bits: 2" #2 Phillips, 2" #2 Square Recess; ABS Carrying Case	DeWalt	**1UG94**
32	(1) 1" PH1, (5) 1" PH2, (1) 1" SL8, (1) 1" SQ1, (1) 1" SQ2, (2) 2" PH1, (2) 2" PH2, (1) 2" SL8, (1) 2" SL10, (1) 2" SQ2, (1) 3½" SQ2, (1) ¼, (1) 5⁄16" Nutsetter, ¼" and ⅜" Socket Adapters, Compact Magnetic Drive Guide, Rapid Load Holder, ½" and	DeWalt	**2KLZ9**
95	(1) 3⁄64" Black Oxide Drill Bit, (1) 5⁄32" Black Oxide Drill Bit, (1) 7⁄64" Black Oxide Drill Bit, (1) 1⁄16" Black Oxide Drill Bit, (1) 1⁄8" Black Oxide Drill Bit, (1) 3⁄16" Black Oxide Drill Bit, (1) ¼" Black Oxide Drill Bit, (1) 3⁄32" Black Oxide Drill Bit, (2) Hex Bit 1" 1⁄16", (2) Hex Bit 1" ¼", (2) Hex Bit 1" 3⁄16", (1) Hex Bit 1" 5⁄32", (1) Hex Bit 1" 9⁄64", (2) Hex Bit 1" 1⁄8", (2) Hex Bit 1" 3⁄32", (2) Hex Bit 1" 5⁄64", (2) Hex Bit 1" 7⁄64", (3) Phillips Bit 1" P1, (10) Phillips Bit 1" P2, (4) Phillips Bit 1" P3, (3) Phillips Bit 1" PR2 , (1) Phillips Bit 2" P2, (1) Pozidrive Bit 1" PZ2, (1) Pozidrive Bit 1" PZ3, (2) Slotted Bit #4, (2) Slotted Bit #6, (2) Slotted Bit #8, (2) Slotted Bit #10, (1) Slotted Bit #12, (1) Slotted 2" Bit #8, (3) Square Bit 1" SQ1, (8) Square Bit 1" SQ2, (3) Square Bit 1" SQ3, (1) Square Bit 2" SQ2, (2) TORX(R) Bit 1" T10, (2) TORX(R) Bit 1" T15, (3) TORX(R) Bit 1" T20, (3) TORX(R) Bit 1" T25, (2) TORX(R) Bit 1" T27, (2) TORX(R) Bit 1" T30, (2) TORX(R) Bit 1" T40, (2) TORX(R) Bit 1" T9, (1) TORX(R) Bit 2" T20, (1) TORX(R) Bit 2" T25, (1) ¼" Magnetic Nut Driver, (1) 5⁄16" Magnetic Nut Driver, (1) Magnetic Drive Guide	Milwaukee	**36FX64**
Drive Guide Sets			
7	Compact Magnetic Drive Guide; Bit Tips: #1, (10) #2, and #3 Phillips; #6, (2) #8, and #10 Slotted; #1, (6) #2, and #3 Square Recess; Magnetic Nut Setters: ¼" and 5⁄16"; Double-End Power Bits: P#1/S#6, (3) P#2/S#8, (3) P#2/P#2, and P#3/S#10; Power Bits:	DeWalt	**4WM41**
14	(2) Magnetic Drive Guides, (6) #2 Phillips, (2) #8 and #10 Slotted, (3) #2 Square Recess Bits, Case	DeWalt	**2KLK3**
Magnetic Drive Guide Set			
7	3" Magnetic Drive Guide, (2) PH2 Insert Bits, SQ2 Insert Bit, T20 Insert Bit, (2) T25 Insert Bits	Milwaukee	**419J71**
Pivot Holder and Bit Set			
11	(1) Phillips Bit 1" P1, (1) Phillips Bit 1" P2, (1) Phillips Bit 1" P3, (1) Slotted Bit 1" SL ¼", (1) Slotted Bit 1" SL ⅛", (1) Slotted Bit 1" SL 3⁄16", (1) Slotted Bit 1" SL 5⁄32", (1) Square Bit 1" SQ, (1) Square Bit 1" SQ2, (1) Bit 1" T25, (1) Shockwave 30 Degree Knuckle Pivoting Bit Holder	Milwaukee	**10Z808**
Screwdriving Sets			
12	Drill Drive Holder; Drill Drive Connector; #6, #8, and #10 Drill Bits with Countersinks; (2) #6, #8, and #10 Replacement Bits; (3) Screwdriver Bit Tips, Heavy-Duty Container	DeWalt	**6XG79**
20	Compact Screw Guide, (19) 1" Insert Bits: P1, (7) P2, P3, SQ1, (3) SQ2, SQ3, T15, T20, T25,SL6-8, SL8-10	Milwaukee	**45L154**
21	2" Magnetic Bit Tip Holder; Bit Tips: #1, (6)#2, and #3 Phillips; #6, #8, and #10 Slotted; #1 and (3)#2 Square Recess; Magnetic Nut Setters: ¼" and 5⁄16"; Power Bits: 2" #2; 2" #2 Square Recess	DeWalt	**4WM44**
24	Compact Magnetic Drive Guide, #1 Phillips Bit 1" (1), #2 Phillips Bit 1" (5), #3 Phillips Bit 1" (1), #1 Square Recess Bit 1" (1), #2 Square Recess Bit 1" (3), #3 Square Recess Bit 1" (2), 8-10 Slotted Bit 1" (1), ¼" x 1 ⅞" MAG Nutsetter (1), 5⁄16"	IRWIN	**3MJA1**
29	Magnetic Drive Guide; Bit Tips: #1, (10)#2, and #3 Phillips; #6, (2)#8, and #10 Slotted; #1, (6)#2, and #3 Square Recess; Magnetic Nut Setters: ¼" and 5⁄16"; Power Bits: 2" #2 Phillips; 2" #2 Square Recess	DeWalt	**4WM45**
31	(10) 1 in. PH Bits (2) PH1, (6) PH2, (2) PH3; (10) 1 in. SQ Bits(2) SQ, (6) SQ2, (2) SQ3; (5) 1 in. SL Bits SL6, (3) SL8, SL10; (5) Star Bits T15, (2) T20, (2) T25; (1) Magnetic Bit tip Holder	DeWalt	**34D640**
31	(9) Security Star Bits T8, T10, T15, T20, T25, T27, T30, T35, T40; (6) Security Hex Bits 5⁄16 in., 3⁄32 in., 7⁄64 in., ⅛ in., 9⁄64 in., 5⁄32 in.; (4) Security Hex - Metric 2mm, 2.5mm, 3mm, 4mm; (4) Spanner Bits 4, 6, 8, 10; (4) Tri-Win.g 1, 2, 3, 4	DeWalt	**34D642**
37	Compact Magnetic Drive Guide, Bit Tips #1, (10) #2 and #3 Phillips, #1, (2) #8 and #10 Slotted, #1, (6) #2 and #3 Square Recess, Magnetic Nut Setters ¼" and 5⁄16", Double-End Power Bits P#1/S#6, (3) P#2/S#8, (3) P#2/P#2 and P#3/S#10, Power Bits 3½" #	DeWalt	**4WM46**
37	(20) 1" Phillips Bits: PH1, (18) PH2, PH3, (8) 1" Square Bits: PH1, (6) PH2, PH3, (4) 1" Slotted Bits: SL6, (2) SL8, SL10, (2) Nut Drivers: ¼", 5⁄16", Magnetic Drive Guide, Compact Magnetic Drive Guide, 2" Power Bits: PH2	DeWalt	**25CC48**
42	(1) Hex Bit 1" ¼", (1) Hex Bit 1" 3⁄16", (1) Phillips Bit 1" P1, (6) Phillips Bit 1" P2, (2) Phillips Bit 1" P3, (2) Phillips Bit 1" PR2 , (1) Phillips Bit 2" P2, (1) Phillips Bit 2" P3, (1) Phillips Bit 3.5" P2, (1) Slotted Bit #6, (1) Slotted Bit #8, (1) Slotted Bit #10, (1) Slotted 2" Bit #8, (1) Slotted 2" Bit #10, (2) Square Bit 1" SQ1, (6) Square Bit 1" SQ2, (1) Square Bit 1" SQ3, (1) Square Bit 2" SQ2, (1) Square Bit 2" SQ3, (1) Square Bit 3.5" SQ2, (1) TORX(R) Bit 1" T10, (1) TORX(R) Bit 1" T15, (1) TORX(R) Bit 1" T20, (1) TORX(R) Bit 1" T25, (1) TORX(R) Bit 1" T30, (1) TORX(R) Bit 2" T15, (1) TORX(R) Bit 2" T20, (1) TORX(R) Bit 2" T25, (1) Magnetic Drive Guide	Milwaukee	**36FX65**
45	(16) 1" PH Bits: PH1, (14) PH2, PH3, (4) 1" SL Bits: SL6, (2) SL8, SL10, 98) 1" SQ Bits: SQ1, (6)SQ2, SQ3, Magnetic Drive Guide, 3½" Phillips Bits: PH2, 3½" Slotted Bits: SL2, (8) 2" Double Ended Bits: (3) PH2/PH2, PH1/SL6, (3) PH2/SL8, PH3/SL10, (2	DeWalt	**25CC45**
51	(14) 2" Power Bits of Phillips, Pozi, Slotted, Square End, Torx®, (7) Nut Setters, SAE 3⁄16-7/16", (6) Hex Bits SAE 3⁄32-1/4", (3) Pozi Bits, (5) Phillips Bits, (7) Star Bits, (8) Square Bits, (1) Magnetic Holder, Master Kit, No Screwdriver Handle	Westward	**1VXP5**
175	Phillips Ribbed, Slotted , Phillips, Pozi Phillips, Hex, Torx(R), Spline, Roberts, Security Bits, Tri Wing, Clutch Bits, Quick Change Chuck, 1 and 2" Drive Socket Adapter, 4 to 1 1⁄16" Screw Guide Driver, Storage Case	Westward	**1VXP2**



No. 30TF22



No. 19RK15



No. 30TF52



No. 34E516



No. 5EAZ3

Impact Driver Bits

IRWIN. Milwaukee

- For additional sizes and package quantities go to Grainger.com®

Fastening Tool Tip Size	Overall Bit Length	Milwaukee Item No.	IRWIN Item No.
Insert Bit			
Phillips			
#1	1"	10Z765	—
#2	1"	5EAX5	—
#3	1"	10Z766	—
Pozidriv®			
#1	1"	52WR91	—
#2	1"	52WR92	—
#3	1"	52WR93	—
Slotted			
3F-4R	1"	—	30TF22
4F-5R	1"	19RK09	30TF23
5F-6R	1"	—	30TF24
6F-8R	1"	19RK11	30TF25
8F-10R	1"	19RK13	30TF26
10F-12R	1"	—	30TF27
12F-14R	1"	—	30TF35
Square Recess			
#1	1"	10Z767	—
#2	1"	5EAY1	—
Torx®			
T6	1"	—	34E526
T7	1"	—	34E527
T8	1"	—	34E528
T9	1"	—	34E529
T10	1"	52WR98	—
T15	1"	52WR99	—
T20	1"	19RJ99	—
T25	1"	10Z770	—
T27	1"	—	34E534
T40	1"	—	34E536
T50	1"	52WT01	—
Power Bit			
Phillips			
#1	2"	10Z771	—
#1	3"	—	34E483
#2	2"	5EAX6	—
#2	3½"	5EAX9	—
#2	6"	10Z781	—
#3	2"	5EAX8	—
#3	3"	—	34E485
#3	3½"	10Z778	—
#3	6"	33GN12	—
Pozidriv®			
#1	2"	52WR94	—
#2	3½"	52WR95	—
#3	2"	52WR96	—
Slotted			
3F-4R	2"	—	30TF48
4F-5R	2"	33GM91	30TF49
5F-6R	2"	—	30TF50
6F-8R	2"	19RK10	30TF51
8F-10R	2"	19RK15	30TF52
10F-12R	2"	—	30TF53
Square Recess			
#1	2"	5EAY5	—
#1	3"	—	34E516
#2	2"	5EAY6	—
#2	3½"	5EAY9	—
#2	6"	10Z782	—
#3	2"	5EAY8	—
#3	3"	—	34E518
#3	3½"	10Z779	—
Torx®			
T10	2"	10Z773	—
T10	6"	—	34E612
T15	2"	5EAZ0	—
T20	2"	5EAZ1	—
T20	2"	52WT02	—
T25	2"	5EAZ2	—
T25	2"	52WT03	—
T25	3½"	19RK06	—
T25	6"	33GN15	34E615
T27	2"	10Z774	34E580
T27	3½"	—	34E608
T27	6"	—	34E616
T30	2"	5EAZ3	—
T30	3½"	—	34E609
T30	6"	—	34E617
T40	2"	33GM97	34E582



No. 6CYU3



No. 6CYU7



No. 5UFH4



No. 10Z786

APEX. Milwaukee IRWIN.

Bit Holders

APEX®—Adapt hex drive and female square drive power tools to insert bits. Holders with µ-Guard™ cover have nonremovable thermoplastic urethane covering which absorbs side impacts and provides a protective barrier.

Irwin®—Holders with C-ring design add internal clip in the retaining ring notch to hold bit more securely. Can be used with socket wrench or socket adapter. Square Drive holders allow use of both power bits and insert bits.

Drive Size	Shank Size	Overall Length	Brand	Item No.	Pkg. Qty.
With µ-Guard™ Cover					
Power					
¼"	¼"	1"	APEX	5UFH5	1
¼"	⅜"	1½"	APEX	5UFH9	1
5⁄16"	⅜"	1½"	APEX	5UFH7	1
5⁄16"	½"	1¾"	APEX	5UFJ1	1
Retaining Ring Retainer					
Impact					
¼"	¼"	2⅜"	Milwaukee	5ECA6	1
¼"	¼"	3"	Milwaukee	5ECA7	1
Power					
¼"	¼"	2 15⁄16"	APEX	5UFG2	1
¼"	¼"	4"	APEX	6CYU3	1
¼"	¼"	6"	APEX	5UFF9	1
¼"	⅜"	1½"	APEX	6CYU7	1
O-Ring Retainer					
Power					
¼"	¼"	2"	APEX	5UFG0	1
¼"	¼"	3"	APEX	5UFG1	1

Drive Size	Shank Size	Overall Length	Brand	Item No.	Pkg. Qty.
Magnetic with µ-Guard™ Cover					
Power					
¼"	¼"	2 9⁄32"	APEX	5UFH6	1
¼"	¼"	3"	APEX	5UFH4	1
¼"	⅜"	2⅜"	APEX	5UFJ0	1
5⁄16"	⅜"	2¾"	APEX	5UFH8	1
5⁄16"	½"	2¾"	APEX	5UFJ2	1
Magnetic Retainer					
Impact					
¼"	¼"	3"	Milwaukee	10Z786	1
Power					
¼"	¼"	1"	IRWIN	4NHW7	1
¼"	¼"	3"	APEX	5UFF8	100
¼"	¼"	6"	IRWIN	30TH78	1
¼"	¼"	12"	IRWIN	30TH79	1
⅜"	⅜"	1¼"	IRWIN	4NHW8	1
½"	5⁄16"	1½"	IRWIN	1YHW4	1

Milwaukee APEX IRWIN

Impact Nut Setters & Drivers

- ¼" hex shank



No. 34E425



No. 1VXN2



No. 5ECC1

Nutsetter Hex Size	Overall Nutsetter Length	Brand	Item No.	Pkg. Qty.
Magnetic Nut Drivers				
¼ in	1 ½ in	Milwaukee	**36GG54**	3
5⁄16 in	1 ½ in	Milwaukee	**36GG55**	3
⅜ in	1 ½ in	Milwaukee	**36GG56**	3
7⁄16 in	1 ½ in	Milwaukee	**36GG57**	3
½ in	1 ½ in	Milwaukee	**36GG58**	3
Magnetic Nut Driver Sets				
¼ in, 5⁄16 in, ⅜ in, 7⁄16 in	1 ⅞ in	Milwaukee	**5ECC5**	1
¼ in, 5⁄16 in, ⅜ in	1 ⅞ in	Milwaukee	**4RRP3**	1
Magnetic Nutsetters				
¼ in	1 ¾ in	Apex	**5UFG8**	1
¼ in	1 ⅞ in	IRWIN	**34E425**	3
¼ in	1 ⅞ in	IRWIN	**34E445**	5
¼ in	2 9⁄16 in	IRWIN	**34E430**	1
¼ in	2 9⁄16 in	Apex	**5UFH1**	1
¼ in	2 9⁄16 in	IRWIN	**34E622**	3
¼ in	2 9⁄16 in	IRWIN	**34E449**	5
¼ in	4 in	Apex	**5UFG3**	1
¼ in	4 in	IRWIN	**34E453**	5
¼ in	6 in	Apex	**5UFG4**	1
¼ in	6 in	IRWIN	**34E456**	5
¼ in	65 mm	Westward	**1VXN2**	3
5⁄16 in	1 ¾ in	Apex	**5UFG9**	1
5⁄16 in	1 ⅞ in	IRWIN	**34E426**	3
5⁄16 in	2 9⁄16 in	IRWIN	**34E431**	1
5⁄16 in	2 9⁄16 in	Apex	**5UFH2**	1
5⁄16 in	2 9⁄16 in	IRWIN	**34E435**	3
5⁄16 in	2 9⁄16 in	IRWIN	**34E451**	5
5⁄16 in	4 in	Apex	**5UFG5**	1
5⁄16 in	4 in	IRWIN	**34E455**	5
5⁄16 in	6 in	Apex	**5UFG6**	1
5⁄16 in	12 in	IRWIN	**34E444**	5
5⁄16 in	65 mm	Westward	**1VXN3**	3
⅜ in		Apex	**5UFH0**	1
⅜ in	1 ⅞ in	IRWIN	**34E427**	3
⅜ in	1 ⅞ in	IRWIN	**34E446**	5
⅜ in	2 9⁄16 in	IRWIN	**34E432**	1
⅜ in	2 9⁄16 in	Apex	**5UFH3**	1
⅜ in	2 9⁄16 in	IRWIN	**34E436**	3
⅜ in	2 9⁄16 in	IRWIN	**34E450**	5
⅜ in	4 in	IRWIN	**34E454**	5
⅜ in	6 in	Apex	**5UFG7**	1
⅜ in	6 in	IRWIN	**34E457**	5
⅜ in	65 mm	Westward	**1VXN4**	3
7⁄16 in	1 ⅞ in	IRWIN	**34E428**	3
7⁄16 in	2 9⁄16 in	IRWIN	**34E433**	1
7⁄16 in	2 9⁄16 in	IRWIN	**34E437**	3
7⁄16 in	2 9⁄16 in	IRWIN	**34E452**	5
Nut Driver Sets				
¼ in, 5⁄16 in, ⅜ in, 7⁄16 in	1 ⅞ in	Westward	**38RV62**	1
Nutsetters				
¼ in	1 ⅞ in	Milwaukee	**5ECC1**	1
¼ in	1 ⅞ in	Milwaukee	**5ECC6**	3
¼ in	2 9⁄16 in	Milwaukee	**5ECD0**	1
¼ in	12 in	IRWIN	**34E417**	1
¼ in	12 in	IRWIN	**34E417**	1
5⁄16 in	1 ⅞ in	Milwaukee	**5ECC2**	1
5⁄16 in	1 ⅞ in	Milwaukee	**5ECC7**	3
5⁄16 in	2 9⁄16 in	Milwaukee	**5ECD1**	1
⅜ in	1 ⅞ in	Milwaukee	**5ECC3**	1
⅜ in	1 ⅞ in	Milwaukee	**5ECC8**	3
⅜ in	2 9⁄16 in	Milwaukee	**5ECD2**	1
⅜ in	12 in	IRWIN	**34E419**	1
⅜ in	12 in	IRWIN	**34E419**	1
7⁄16 in	1 ⅞ in	Milwaukee	**5ECC4**	1
7⁄16 in	1 ⅞ in	Milwaukee	**5ECC9**	3
7⁄16 in	2 9⁄16 in	Milwaukee	**5ECD3**	1
½ in	2 9⁄16 in	Milwaukee	**10Z764**	1



No. 53DM18



No. 45KM94

BOSCH Milwaukee

Twist Impact Bits

Drill Bit Size	Drill Bit Finish	Sizes Incl.	Brand	Item No.
¼" Shank Twist Impact Drill Bits				
1⁄16"	TiN	—	Milwaukee	**45KM68**
3⁄32"	TiN	—	Milwaukee	**45KM70**
1⁄8"	TiN	—	Milwaukee	**45KM72**
9⁄64"	TiN	—	Milwaukee	**45KM73**
5⁄32"	TiN	—	Milwaukee	**45KM74**
11⁄64"	TiN	—	Milwaukee	**45KM75**
3⁄16"	TiN	—	Milwaukee	**45KM76**
5⁄16"	TiN	—	Milwaukee	**45KM84**
⅜"	TiN	—	Milwaukee	**45KM88**
½"	TiN	—	Milwaukee	**45KM94**
7⁄32"	TiN	—	Milwaukee	**45KM78**
¼"	TiN	—	Milwaukee	**45KM80**
Twist Impact Bit Sets				
3⁄32" to ¼"	Black Oxide	3⁄32", 1⁄8", 5⁄32", 3⁄16", ¼"	Bosch	**53DM18**
1⁄16" to ¼"	Black Oxide	1⁄16", 3⁄32", 1⁄8", 5⁄32", 3⁄16", 7⁄32", ¼", 5⁄16", ⅜"	Bosch	**53DM19**
1⁄16" to ¼"	TiN	1⁄16", 3⁄32", 1⁄8", 5⁄32", 3⁄16", 7⁄32", ¼", 5⁄16", ⅜"	Bosch	**53DM65**



No. 1AVC3



No. 38RV66

IRWIN WESTWARD

Hex Power Drive Nut Setters

- ¼" hex shanks

For use with sheet metal screws and other hex head fasteners.

Nutsetter Hex Size	Overall Length	Brand	Item No.	Pkg. Qty.
½"	2 9⁄16"	IRWIN	**1AVC9**	3
¼"	1 7⁄8"	IRWIN	**1AVC2**	3
¼"	1 7⁄8"	Westward	**38RV63**	3
¼"	1 7⁄8"	IRWIN	**3ECA8**	10
¼"	2 9⁄16"	IRWIN	**1AVC3**	3
¼"	2 9⁄16"	IRWIN	**3ECA7**	10
¼"	4"	IRWIN	**1AVA5**	1
¼"	6"	IRWIN	**1AVA8**	1
¼"	12"	IRWIN	**1AVB2**	1
3⁄16"	1 7⁄8"	IRWIN	**1AVC1**	3
⅜"	1 7⁄8"	IRWIN	**1AVC6**	3
⅜"	1 7⁄8"	Westward	**38RV65**	3
⅜"	1 7⁄8"	IRWIN	**3HKA2**	10
⅜"	2 9⁄16"	IRWIN	**1AVC7**	3
⅜"	4"	IRWIN	**1AVA7**	1
5⁄16"	12"	IRWIN	**1AVB4**	1
5⁄16"	1 7⁄8"	IRWIN	**1AVC4**	3
5⁄16"	1 7⁄8"	Westward	**38RV64**	3
5⁄16"	1 7⁄8"	IRWIN	**3ECA6**	10
5⁄16"	2 9⁄16"	IRWIN	**1AVC5**	3
5⁄16"	4"	IRWIN	**1AVA6**	1
5⁄16"	12"	IRWIN	**1AVB3**	1
7⁄16"	1 7⁄8"	Westward	**38RV66**	3
7⁄16"	2 9⁄16"	IRWIN	**1AVC8**	3
10.0mm	47.6mm	IRWIN	**1AVN9**	3
6.0mm	47.6mm	IRWIN	**1AVN7**	3
8.0mm	47.6mm	IRWIN	**1AVN8**	3
Sets				
3-Pc. Set: ¼, 5⁄16, and ⅜ x 2 3⁄16"L		Westward	**1VXN5**	1



Hex Screw Guides

WESTWARD

- Magnetic
- Steel
- ¼" Hex Power Drive Shank

Hex Shank Size	Overall Length	Item No.
¼"	3 5⁄32"	**38RV72**



No. 1AUR6


No. 40L587


No. 41D625


No. 5RDK6

IRWIN. WESTWARD APEX.

Screw Driver Bits

- ¼" hex shank

Note: Additional pack quantities and sizes are available on Grainger.com®.

Fastening Tool Tip Size	Overall Bit Length	IRWIN Item No.	IRWIN Pkg. Qty.	WESTWARD Item No.	WESTWARD Pkg. Qty.		APEX Item No.	APEX Pkg. Qty.
Insert Bit								
Torx®								
T6	1"	1AVJ4	1	—			—	
T7	1"	1AVJ5	1	40L601	5		5RDL0	5
T8	1"	1AVJ6	1	40L602	5		5RDL1	5
T9	1"	1AVJ7	1	40L603	5		5RDL2	5
T10	1"	—		40L594	5		5RDL3	5
T15	1"	—		41D616	5		5RDL4	5
T20	1"	—		40L595	5		5RDL5	5
T25	1"	—		40L596	5		5RDL7	5
T27	1"	1AVK2	1	40L597	5		5RDL8	5
T30	1"	—		40L598	5		5RDL9	5
T40	1"	1AVK4	1	40L599	5		5RDN1	5
Torq-Set ACR								
#8	1"	—		—			5UFA7	5
#8	1¼"	—		—			5UFE0	5
#10	1"	—		—			5UFA8	5
#10	1¼"	—		—			5UFE5	5
¼"	1"	—		—			5UFA9	5
Torq-Set								
#0	1"	1YHU4	2	—			5RDV8	5
#1	1"	1YHU5	2	40L587	5		5RDV9	5
#2	1"	1YHU6	2	40L588	5		5RDW0	5
#3	1"	1YHU7	2	40L589	5		5RDW1	5
#4	1"	1YHU8	2	40L590	5		5RDW2	5
#5	1"	1YHU9	2	40L591	5		5RDW3	5
#6	1"	1YHV1	1	—			5RDW4	5
#8	1"	1YHV2	1	—			5RDW5	5
#10	1"	1YHV3	2	—			5RDW7	5
Tamper Resistant Torx®								
TR7	1"	1AVL3	1	—			—	
TR8	1"	1AVL4	1	—			—	
TR9	1"	1AVL5	1	—			—	
TR10	1"	1AVL6	1	40L604	5	**	5RDN2	5
TR15	1"	1AVL7	1	40L605	5	**	5RDN3	5
TR20	1"	—		40L606	5	**	5RDN4	5
TR25	1"	—		40L607	5	**	5RDN5	5
TR27	1"	1AUT8	1	40L608	5	**	5RDN6	5
TR30	1"	1AUT9	1	41D627	5	**	5RDN7	5
TR40	1"	1AUV1	1	—			—	
Square Recess								
#1	1"	—		40L580	5		5RDU7	5
#2	1"	1AVH1	5	40L581	5		5RDU8	5
#3	1"	—		40L582	5		—	
Slotted								
3F-4R	1"	1AVF9	1	—			22PF90	5
4F-5R	1"	1AVG1	1	40L577	5		22PF23	5
6F-8R	1"	1AVG2	2	40L578	5		6CYU1	1
8F-10R	1"	1AVG3	2	40L579	5		22PF24	5
10F-12R	1"	1AVG4	2	40L576	5		22PF46	5
Pozidriv®								
#1	1"	1AUV2	1	—			22PF62	5
#2	1"	1AUV3	1	—			6CYT9	1
Phillips								
#0	1"	1AVD5	2	40L570	5		5RDH4	5
#1	1"	—		40L571	5		5RDH5	5
#2	1"	1AVD8	5	40L572	5		5RDH6	5
#3	1"	—		40L573	5		5RDH3	5
Hex								
¼"	1"	1AVJ3	1	40L559	5		—	
⅛"	1"	1AVH7	1	40L560	5		22PF50	5
3⁄16"	1"	1AVJ1	1	40L561	5		—	
3⁄32"	1"	1AVH5	1	40L562	5		5RDT6	5
5⁄32"	1"	1AVH9	1	40L563	5		—	
5⁄64"	1"	1AVH4	1	40L564	5		5RDT4	5
1⁄32"	1"	1AVJ2	1	40L565	5		—	
7⁄64"	1"	1AVH6	1	—			5RDU2	5
9⁄64"	1"	1AVH8	1	40L566	5		5RDT5	5
Power Bit								
Torx®								
T7	1 15⁄16"	—		—			5RDP5	5
T7	2"	—		41D624	5		—	
T8	1 15⁄16"	—		—			5RDP6	5
T8	2"	—		41D625	5		—	
T9	2"	—		41D626	5		—	
T10	1 15⁄16"	—		—			5RDP7	5
T10	2"	1AVK5	1	41D614	5		—	
T10	6"	1AUR6	1	41D615	5		—	
T15	1 15⁄16"	—		—			5RDP9	5
T15	2"	1AVK6	1	40L661	5		—	
T15	2¾"	1AVD3	1	—			5RDR0	5
T15	3½"	1AVD7	1	—			5RDR1	5
T15	6"	1AUR8	1	41D617	5		5RDR2	5
T20	1 15⁄16"	—		—			5RDR3	5
T20	2"	—		40L662	5		—	
T20	2¾"	1AVD4	1	—			5RDR4	5
T20	3½"	1AVD9	1	—			5RDR5	5
T20	6"	1AUT1	1	—			5RDR6	5
T25	1 15⁄16"	—		—			5RDR7	5
T25	2"	—		40L665	2		—	
T25	2"	—		41D620	5		—	
T25	2¾"	1AVD6	1	—			5RDR8	5
T25	3½"	1AVF2	1	—			5RDR9	5
T25	6"	1AUT3	1	—			5RDT0	5
T27	1 15⁄16"	—		—			5RDT1	5
T27	2"	1AVK9	1	40L663	5		—	
T30	1 15⁄16"	—		—			5RDT2	5
T30	2"	—		41D623	5		—	
T40	1 15⁄16"	1AVL2	1	—			5RDT3	5
T40	2"	—		40L664	5		—	
Torq-Set								
#1	1¼"	—		—			22PH04	5
#2	1¼"	1YHV6	2	—			5UFC9	5
#3	1¼"	1YHV7	2	—			5UFD1	5
#4	1¼"	1YHV8	2	—			5UFD3	5
#5	1¼"	1YHV9	2	—			22PH01	5
#6	1¼"	1YHW1	2	—			5UFD6	5
#8	1¼"	1YHW2	2	—			5UFD9	5
#10	1¼"	1YHW3	2	—			5UFE4	5
¼"	1¼"	—		—			5UFE8	5
3⁄8"	1¼"	—		—			22PH95	5
5⁄16"	1¼"	—		—			5UFE9	5
Square Recess								
#1	1 15⁄16"	—		—			5RDV0	5
#2	1 15⁄16"	—		—			5RDV1	5
#2	2"	—		41D602	2		—	
#2	6"	—		40L666	5		5RDV6	5
#3	1 15⁄16"	—		—			5RDV7	5
#3	2"	—		40L643	5		—	
Slotted								
4F-5R	1 15⁄16"	—		—			22PF52	5
4F-5R	2"	—		40L638	5		—	
4F-5R	6"	—		—			22PH30	5
5F-6R	1 15⁄16"	1AVG5	1	—			22PF42	5
6F-8R	1 15⁄16"	—		—			22PF43	5
6F-8R	2"	—		40L639	5		—	
6F-8R	6"	—		—			22PG97	5
8F-10R	1 15⁄16"	—		—			22PF60	5
8F-10R	2"	—		40L640	5		—	
10F-12R	1 15⁄16"	—		—			22PF61	5
10F-12R	2"	—		40L637	5		—	
Phillips								
#0	1 15⁄16"	—		—			22PF74	5
#0	2"	—		40L621	5		—	
#1	1 15⁄16"	—		—			22PF25	5
#1	2"	1AUR7	2	40L622	5		—	
#1	3½"	1AUR9	1	—			5RDJ4	5
#2	1 15⁄16"	—		—			5RDJ5	5
#2	2"	—		40L614	2		—	
#2	2¾"	1AUT4	2	—			5RDJ7	5
#2	3½"	—		—			5RDJ9	5
#2	6"	—		40L635	5		5RDK1	5
#3	1 15⁄16"	—		—			5RDK3	5
#3	2"	—		40L615	2		—	
#3	3½"	1AVF8	1	—			5RDK6	5
#3	6"	—		40L636	5		—	
Hex								
2.0mm	1 15⁄16"	—		—			22PH02	5
⅛"	1 15⁄16"	—		—			5RDU4	5
⅛"	2"	—		40L610	5		—	
1⁄16"	1 15⁄16"	—		—			22PG68	5
3⁄16"	1 15⁄16"	—		—			5RDU6	5
3⁄16"	2"	—		40L611	5		—	
3⁄32"	1 15⁄16"	—		—			5RDU3	5
3⁄32"	2"	—		40L612	5		—	
5⁄32"	1 15⁄16"	—		—			5RDU5	5
5⁄32"	2"	—		40L613	5		—	
5⁄64"	1 15⁄16"	—		—			22PG69	5
1⁄32"	1 15⁄16"	—		—			22PG74	5
7⁄64"	1 15⁄16"	—		—			22PG71	5
9⁄64"	1 15⁄16"	—		—			22PG62	5

***Tamperproof.*



No. 5ECA9



No. 34E499

Square Drive Socket Adapters

IRWIN. Milwaukee

Allow the user to adapt a power drill into a socket driver. Use with power drills and ¼" hex drive hand tools.

Drive Size	Output Drive Size	Overall Length	Brand	Item No.	Pkg. Qty.
Male Hex Drive Type, Male Square Output Drive Type					
Impact Rated No					
¼"	¼"	2"	IRWIN	**5ERY7**	10
¼"	¼"	1⅜"	IRWIN	**1AUV4**	1
Impact Rated Yes					
¼"	¼"	1⅞"	Milwaukee	**5ECA8**	1
¼"	¼"	2"	IRWIN	**34E497**	5
¼"	⅜"	1⅞"	Milwaukee	**5ECA9**	1
¼"	½"	2"	Milwaukee	**5ECC0**	1
¼"	½"	2"	IRWIN	**34E499**	5



No. 5UFZ2

Description	Overall Bit Length	Item No.
Eazypower Flexible Extensions		
Flex-A-Bit Magnetic	7½"	**5UFY8**
Flex-A-Bit Magnetic, Provides up to 3.5 ft/lbs of Torque	11"	**5UFY9**
Flex-A-Bit Magnetic	11"	**9VKL5**
Flex-A-Bit Magnetic	18"	**8FNG1**
Flex-A-Bit Magnetic	24"	**8FPG3**
Flex-A-Bit Magnetic	36"	**9AT49**
Flex-A-Bit Magnetic	48"	**8YPW1**
Flex-A-Bit Magnetic, Quick Disconnect	11"	**8NNR2**
Flex-A-Wrench Magnetic, ¼" Square Drive	11"	**5UFZ0**
Flex-A-Wrench Magnetic, ⅜" Square Drive	11"	**5UFZ1**
Eazypower Flex-A-Bit Kit		
Includes: Phillips # 1, 2; Slotted 6-8, 8-10; Tee Star® T10, T15; Square Recess R1, R2; Magnetic Bit Holder		**5UFZ2**

No. of Pieces	Sockets Included	Accessories	Item No.
Eazypower Flex-A-Bit Socket Kits			
19	3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝	Socket and Bit Adapters, T10, T20, T25, T27, T30, T35, T40, T45	**5UFZ4**
19	3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝' -3/8" Square Drive; 3/16, 7/32, ¼, 9/32, 5/16, 11/32, ⅜, 7/16" -1/4" Drive	T10, T15, T20, T25, T27, T30, T40, T45 for Torx Screws	**5UFZ5**
25	3/16, 7/32, ¼, 9/32, 5/16, 11/32, ⅜, 7/16	#1, #2, #3, 1" Phillips, 6-8, 8-10, 10-12 1" Slotted, T15, T20, T25, 1" for Torx, ¼" Hex, 2⅛" Magnetic Bit Holder, Socket and Bit Adapter	**5UFZ3**

eazypower®

Flexible Extensions

Flex-A-Bit extensions flex to a full 90°. Outer cover does not rotate so bits can be used safely at any speed. Rated for 13 ft.-lb. of torque. For heavy-duty use with electric or cordless drills and screwdrivers.



No. 6CYV2

IRWIN.

Quick-Change Extensions

Features 1-handed, quick-release Lock-n-Load® system. Jaws hold bits securely on ball detent bits, 6-flatted shanks, and insert bits.

Drive Size	Overall Bit Length	Item No.
¼"	2½"	**6CYU8**
¼"	6"	**6CYU9**
¼"	12"	**6CYV0**
⅜"	2"	**6CYV1**
⅜"	5½"	**6CYV2**
⅜"	11"	**6CYV3**
7/16"	5½"	**6CYV4**
7/16"	12"	**6CYV5**
7/16"	18"	**6CYV6**



No. 14F028

Makita

Keyless Chuck Adapters

Capacity Max.	Item No.
0.375"	**14F028**



No. 1Y330



No. 2NJ51

Milwaukee

Right Angle Attachments

For use with corded and cordless drills.

Includes	Mfr. Model	Item No.
Head, Sleeve, and Coupling	48-06-2871	**1Y330**
—	49-22-8510	**2NJ51**

Step Drill Bits

IRWIN Unibit · Milwaukee · WESTWARD

Ideal for drilling multiple diameter holes in steel, copper, brass, aluminum, PVC, wood, and laminates up to ⅛" thick. Irwin bits have Speed Point™ tip design and single flute cutting edge. Cobalt bits resist heat buildup and have 3-sided flattened shank. All Irwin ¼" shanks are quick change. Milwaukee bits with JAM-FREE performance feature a dual-flute design.



No. 4XK66



No. 19RK75

No. of Hole Sizes	Shank Size	Step Thickness	Size Range	Overall Length	IRWIN UNIBIT HSS Item No.	IRWIN UNIBIT HSS Titanium Nitride Item No.	IRWIN UNIBIT Cobalt Item No.	MILWAUKEE HSS Item No.
1	¼"	—	½"	1¾"	**4A950**	—	—	—
1	⅜"	—	⅞"	2"	**41GR88**	—	—	—
1	⅜"	⅛"	⅞" with Steps	2 13/64"	—	—	—	**19RK78**
1	⅜"	—	⅞"	2 19/32"	**4A951**	—	—	—
1	7/16"	—	1⅛"	2⅞"	**4A952**	—	—	—
2	¼"	5/32"	⅜" to ½"	2 1/32"	—	—	—	**19RK77**
2	⅜"	⅛"	⅞" to 1⅛"	2 61/64"	—	—	—	**19RK80**
2	7/16"	—	⅞" to 1⅛"	3⅛"	**4XK52**	—	—	—
3	⅜"	⅛"	⅞" to 1 7/32"	3 3/64"	—	—	—	**19RK81**
5	⅜"	3/16"	⅞" to 1⅜"	3 1/16"	—	—	—	**19RK82**
6	¼"	⅜"	3/16" to ½"	3 5/64"	—	—	—	**19RK73**
6	¼"	1/16"	3/16" to ½"	3⅛"	**4A949**	**4XK67**	**2CJR4**	—
8	7/16"	⅛"	9/16" to 1"	3"	**4A947**	—	**2CJR8**	—
9	⅜"	5/32"	¼" to ¾"	2 3/64"	—	—	—	**19RK74**
9	⅜"	1/16"	¼" to ¾"	2¾"	—	—	**2CJR5**	—
9	⅜"	3/16"	½" to 1"	3 17/64"	—	—	—	**19RK79**

No. of Hole Sizes	Shank Size	Step Thickness	Size Range	Overall Length	IRWIN UNIBIT HSS Item No.	IRWIN UNIBIT HSS Titanium Nitride Item No.	IRWIN UNIBIT Cobalt Item No.	MILWAUKEE HSS Item No.
9	⅜"	3mm	7mm to 28.3mm	2 23/32"	—	—	—	**48UT22**
10	⅜"	3/16"	¼" to 1⅜"	3 3/64"	—	—	—	**19RK76**
10	½"	⅛"	¼" to 1⅜"	3⅛"	**3UMJ7**	—	—	—
12	⅜"	5/32"	3/16" to ⅞"	2 61/64"	—	—	—	**19RK75**
12	⅜"	1/16"	3/16" to ⅞"	3¼"	**6A922**	—	—	—
13	¼"	5/32"	⅛" to ½"	3 1/64"	—	—	—	**19RK72**
13	¼"	1/32"	⅛" to ½"	3⅛"	**4A946**	**4XK66**	**2CJR3**	—

No. of Hole Sizes	Shank Size	Step Thickness	Size Range	WESTWARD HSS Bright Item No.
5	⅜"	1/16"	⅞" to 1⅜"	**19N141**
9	⅜"	1/16"	¼" to ¾"	**19N124**
9	⅜"	1/16"	½" to 1"	**19N142**
12	⅜"	1/16"	3/16" to ⅞"	**19N127**

Description	Drill Bit Sizes Included	Brand	Item No.
High Speed Steel			
2-Pc. Step Drill Bit Set	⅞", 1⅛"	Milwaukee	**451N45**
2-Pc. Step Drill Bit Set	3/16", ⅞"	Milwaukee	**451N44**
3-Pc. Step Drill Bit Set	⅛" to ½", 3/16" to ½", ¼" to ¾"	Irwin Industrial Tool Co.	**41GR65**
3-Pc. Step Drill Bit Set, Double Flute	⅛" to ½", 3/16" to ½", 3/16" to ⅞"	Milwaukee	**19RK83**
3-Pc. Step Drill Bit Set, Double Flute Cutting Edge, 3 Flatted Shank, Non-Skid Self-Starting Tip	⅛", 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 13/32", 7/16", 15/32", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 1⅛"	Westward	**6EXN2**
3-Pc. Step Drill Bit Set, UNIBIT	⅛", 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 13/32", 7/16", 15/32", ½", 3/16", ¼", 5/16", ⅜", 7/16", ½", ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	Irwin Unibit	**4A954**
4-Pc. Step Drill Bit Set, Double Flute	⅛" to ½", 3/16" to ⅞", ⅞", ⅞" to 1⅜"	Milwaukee	**19RK84**
6-Pc. Step Drill Bit Set, Double Flute	⅛" to ½", 3/16" to ⅞", ⅜" to ½", ⅞", ½" to 1", ⅞" to 1⅛"	Milwaukee	**19RK85**
Cobalt			
3-Pc. Step Drill Bit Set, UNIBIT	⅛", 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 13/32", 7/16", 15/32", ½", 3/16", ¼", 5/16", ⅜", 7/16", ½", ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	Irwin Unibit	**2CJR9**

HSS and Cobalt Drill Bits and Sets

Milwaukee · DEWALT · WESTWARD

DeWalt—Bit sizes up to 11/64" are split point; sizes 3/16" and larger are Pilot Point™. Pilot Point tips start on contact for clean, accurate holes and reduce lock-up on breakthrough. Cobalt tips are for use in stainless steel and other hard metals.

Milwaukee—Precision start bits have parabolic flute that clears chips faster.

Westward®—Bit sizes smaller than ⅛" have split point; sizes ⅛" and larger have grooves and split point. Groove design breaks up chips for faster and more accurate drilling.



No. 5TG10



No. 45L155

Drill Bit Size	Drilling Depth	Overall Length	DEWALT HSS Item No.	DEWALT COBALT Item No.	MILWAUKEE TITANIUM COATED Item No.
1/16 in	⅞"	1 ⅞ in	**5TG10** *	—	—
⅛ in	1⅝"	2 ¾ in	**5TG11** *	—	—
3/16 in	2 5/16"	3 ½ in	**5TG12**	—	—
¼ in	2¾"	4 in	**5TG13**	—	—
5/16 in	3 3/16"	4 ½ in	**5TG14**	—	—
⅜ in	3⅝"	5 in	**5TG15**	**45CY97**	—
7/16 in	4 1/16"	5 59/100 in	**5TG16**	—	—
½ in	4½"	6 in	**5TG17**	—	—
1/16 in	55/64"	1 29/32 in	—	**45CY83**	—
5/64 in	1"	2 in	—	**45CY84**	—
3/32 in	1 13/64"	2 13/64 in	—	**45CY85**	—
7/64 in	1½"	2 39/64 in	—	**45CY86**	—
⅛ in	1 7/64"	2 13/16 in	—	**45CY87**	—
9/64 in	1 5/16"	2 29/32 in	—	**45CY88**	—
5/32 in	1 39/64"	3 7/64 in	—	**45CY89**	—
11/64 in	1 39/64"	3 5/16 in	—	**45CY90**	—
3/16 in	1 45/64"	3 ½ in	—	**45CY91**	—
13/64 in	1 55/64"	3 39/64 in	—	**45CY92**	—
7/32 in	1 29/32"	3 13/16 in	—	**45CY93**	—
15/64 in	2"	3 29/32 in	—	**45CY94**	—
¼ in	2 13/64"	4 in	—	**45CY95**	—
5/16 in	2 39/64"	4 39/64 in	—	**45CY96**	—
7/16 in	4"	5 ¾ in	—	**45CY98**	—
½ in	3 29/32"	6 7/64 in	—	**45CY99**	—
15/64 in	2 5/8"	3 ⅞ in	—	—	**45L155**
9/32 in	2 9/16"	4 ¼ in	—	—	**45L156**
19/64 in	3 1/16"	4 ⅜ in	—	—	**45L157**
23/64 in	3½"	4 ⅞ in	—	—	**45L158**
25/64 in	3¾"	5 ⅛ in	—	—	**45L159**
27/64 in	3 15/16"	5 ⅜ in	—	—	**45L160**
29/64 in	4 3/16"	5 ⅝ in	—	—	**45L161**
15/32 in	4 5/16"	5 ¾ in	—	—	**45L162**
31/64 in	4⅜"	5 ⅞ in	—	—	**45L163**

Frac. Size	Drilling Depth	Overall L	WESTWARD COBALT STEEL Item No.
1/16"	⅛"	1⅞"	**38AV88**
5/64"	1"	2"	**38AV89**
3/32"	1¼"	2¼"	**38AV90**
7/64"	1½"	2⅝"	**38AV91**
⅛"	1⅝"	2¾"	**38AV92**
9/64"	1¾"	2⅞"	**38AV93**
5/32"	2"	3⅛"	**38AV94**
11/64"	2⅛"	3¼"	**38AV95**
3/16"	2 5/16"	3½"	**38AV96**
7/32"	2½"	3¾"	**38AV97**
¼"	2¾"	4"	**38AV98**
5/16"	3 3/16"	4½"	**38AV99**
⅜"	3⅝"	5"	**38AW01**
7/16"	4 1/16"	5½"	**38AW02**
½"	4½"	6"	**38AW03**

No. of Pieces	Includes	Brand	Item No.
HSS Drill Bit Sets			
14	1/16" to ½"	DeWalt	**53DR65**
21	1/16" to ½"	DeWalt	**53DR64**
29	(1) each 1/16" to ½", Storage Case	Westward	**10D226**
29	1/16" to ½"	DeWalt	**53DR59**
Cobalt Drill Bit Sets			
14	(2) 1/16", ⅛" (1) each 5/64 to ⅜"	Westward	**10D227**
14	1/16" to ⅜"	DeWalt	**45CZ01**
29	(1) each 1/16" to ½"	Westward	**10D228**
29	1/16" to ½"	DeWalt	**45CZ02**

** Sold as Pkg. of 2.*


No. 1PMT5


No. 5EEU2

IRWIN. BOSCH

Wood Boring Bits

Irwin® Speedbor®—Bits have a tri-flute design for faster drilling and chip ejection. Innovative cutting spur leaves a smooth, clean hole. ¼" Quick Change hex shanks grip firmly.

Bosch Daredevil®—These spade bits are designed for professional users seeking speed, ease of use, and hole quality. Up to 10X faster than conventional spade bits.

Drill Bit Size	Item No.
Adjustable Spade Bits	
Irwin Speedbor Flat, 5½"L	
⅝" to 1¾"	4XK79
⅞" to 3"	4XK80
Spade Bits	
Bosch DareDevil Stubby, 4" Overall Length	
⅜"	5EET3
½"	5EET4
⅝"	5EET5
¾"	5EET6
⅞"	5EET7
1"	5EET8
1⅛"	5EET9
1¼"	5EEU0
1½"	5EEU1
Irwin Speedbor Flat, 6"L	
¼"	1PMN6
5⁄16"	1PMN7
⅜"	4XK93
7⁄16"	1PMN8
½"	4XK94
9⁄16"	1PMN9
⅝"	4XK95
11⁄16"	1PMP1
¾"	4XK96
13⁄16"	1PMP2
⅞"	4XK97
15⁄16"	1PMP3

Drill Bit Size	Item No.
1"	4XK98
1⅛"	4XK99
1¼"	4XL01
1⅜"	1PMP4
1½"	4XL02
Irwin Speedbor Flat, 16"L	
⅜"	1PMP5
½"	1PMP6
⅝"	1PMP7
¾"	1PMP8
⅞"	1PMP9
1"	1PMR1
Wood Boring Bits	
Irwin Speedbor Max, 6"L	
7⁄16"	5ELP7
½"	1PMT1
9⁄16"	5ELP8
⅝"	1PMT2
11⁄16"	5ELP9
¾"	1PMT3
13⁄16"	5ELR0
⅞"	1PMT4
15⁄16"	5ELR1
1"	1PMT5
1⅛"	5ELR2
1¼"	1PMT6
1⅜"	5ELR3
1½"	5ELR4

Drill Bit Size	Item No.
Wood Drilling Bits	
Bosch DareDevil 6" Overall Length	
¼"	38C908
5⁄16"	38C909
⅜"	38C910
7⁄16"	38C911
½"	38C912
9⁄16"	38C913
⅝"	38C914
11⁄16"	38C915
¾"	38C916
13⁄16"	38C917
⅞"	38C918
15⁄16"	38C919
1"	38C920
1⅛"	38C921
1¼"	38C922
1⅜"	38C923
1½"	38C924
Bosch DareDevil 16" Overall Length	
⅜"	38C925
½"	38C926
⅝"	38C927
¾"	38C928
⅞"	38C929
1"	38C930

No. of Pieces	Drill Bit Size	Item No.
Spade Bit Sets		
Bosch DareDevil Stubby, 6"L		
6	½", ⅝", ¾", ⅞", 1"	5EEU3
13	¼", ⅜", ½", 9⁄16", ⅝", 11⁄16", ¾", ⅞", 1", 1⅛", 1¼", 1⅜", 1½"	5EEU2
Irwin Speedbor Flat, 6"L		
6	⅜", ½", ⅝", ¾", ⅞", 1"	4XL03
Bosch DareDevil		
3	½", ¾", 1"	3YDY9
Bosch DareDevil, w/Extension		
7	⅜", ½", ⅝", ¾", ⅞", 1"	3YDZ2
Wood Drilling Bit Sets		
Irwin Speedbor Flat, 6"L		
13	¼", 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1"	1PMR2
3	⅝", ¾", 1"	1PMT7

Description	Overall Length (in.)	Item No.
Extensions		
Bosch DareDevil	6	38C931
Bosch DareDevil	12	38C932


No. 4AAT4

IRWIN. BOSCH

Ship Auger Bits

Irwin® Speedbor®—Welded chromium alloy cutting edges do not break when striking nails.

Bosch—"Nailkiller" auger bits offer leading-edge technology for wood drilling. They are designed for superior performance against nail hits. Double cutter and reamer edge provide improved hole quality and deliver additional strength during aggressive drilling.

Drill Bit Size	Overall Length	Brand	Item No.
¼" Shank			
5⁄16"	7½"	Bosch	44H561
3⁄8"	7½"	Bosch	44H562
	13"	Bosch	44H528
	17½"	Bosch	44H512
7⁄16"	7½"	Bosch	44H563
	13"	Bosch	44H529
	17½"	Bosch	44H513
⅜" Shank			
7⁄16"	17"	Irwin Speedbor	4KYP8
½"	17"	Irwin Speedbor	4AAT5
9⁄16" Shank			
¼	7½"	Bosch	44H560
5⁄16" Shank			
½"	7½"	Bosch	44H564
	13"	Bosch	44H530
	17½"	Bosch	44H514
7⁄16" Shank			
⅜"	17"	Irwin Speedbor	4AAT4
9⁄16"	7½"	Bosch	44H565
	13"	Bosch	44H531
	17"	Irwin Speedbor	4AAT6
	17½"	Bosch	44H515
⅝"	7½"	IRWIN	53WC45
	7½"	Bosch	44H566
	13"	Bosch	44H532
	17"	Irwin Speedbor	4AAT7
	17½"	Bosch	44H516
11⁄16"	7½"	IRWIN	53WC50
	7½"	Bosch	44H567
	13"	Bosch	44H533
	17"	Irwin Speedbor	4AAT8
	17½"	Bosch	44H517
¾"	7½"	IRWIN	53WC42
	7½"	Bosch	44H568
	13"	Bosch	44H534
	17"	Irwin Speedbor	4AAT9
	17½"	Bosch	44H518
13⁄16"	7½"	IRWIN	53WC49
	7½"	Bosch	44H569
	13"	Bosch	44H535
	17"	Irwin Speedbor	4AAU1
	17½"	Bosch	44H519

Drill Bit Size	Overall Length	Brand	Item No.
7⁄8"	7½"	Bosch	44H570
	13"	Bosch	44H536
	17"	Irwin Speedbor	4AAU2
	17½"	Bosch	44H520
15⁄16"	7½"	IRWIN	53WC53
	7½"	Bosch	44H571
	13"	Bosch	44H537
	17"	Irwin Speedbor	4AAU3
	17½"	Bosch	44H521
1"	7½"	IRWIN	53WC31
	7½"	Bosch	44H572
	13"	Bosch	44H538
	17"	Irwin Speedbor	4AAU4
	17½"	Bosch	44H522
1 1⁄16"	7½"	IRWIN	53WC54
	17"	Irwin Speedbor	4KYP9
	17½"	Bosch	44H523
1⅛"	7½"	IRWIN	53WC52
	7½"	Bosch	44H573
	13"	Bosch	44H539
	17"	Irwin Speedbor	4AAU5
	17½"	Bosch	44H524
1¼"	7½"	IRWIN	53WC51
	7½"	Bosch	44H574
	13"	Bosch	44H540
	17"	Irwin Speedbor	4AAU6
	17½"	Bosch	44H525
1⅜"	7½"	Bosch	44H575
	13"	Bosch	44H541
	17"	Irwin Speedbor	4KYR1
	17½"	Bosch	44H526
1½"	7½"	Bosch	44H576
	13"	Bosch	44H542
	17"	Irwin Speedbor	4AAU7
	17½"	Bosch	44H527
1⅝"	17"	Irwin Speedbor	6DMA1
1¾"	17"	Irwin Speedbor	6DMA2
2"	17"	Irwin Speedbor	6DMA3


No. 6DLZ3

IRWIN.

Pole Auger Bits

- Can be resharpened
- Screw point
- Hex/impact shank

Drill Bit Size	Shank Size	Overall Length	Item No.
Wood Drilling Bit			
11⁄16"	7⁄16"	18"	6DLZ3
11⁄16"	⅜"	18"	6DLZ7
¾"	7⁄16"	29"	6DMA0
13⁄16"	7⁄16"	18"	6DLZ4
13⁄16"	7⁄16"	18"	6DLZ5
13⁄16"	7⁄16"	29"	6DLZ6
13⁄16"	⅝"	18"	6DLZ9

Self-Feed Bits, Extensions, and Kits

Milwaukee IRWIN. BOSCH

Drill Bit Size	MILWAUKEE Item No.	IRWIN Item No.	BOSCH Item No.
Self Feed Bits			
1"	1AKB4	53WC32	44H577
1⅛"	4GY77	53WC35	44H578
1¼"	4YE32	53WC34	44H579
1⅜"	4GY76	—	44H580
1⅜"	2VFY6	—	—
1½"	4YE34	53WC33	44H581
1¾"	4GY78	53WC36	44H582
2"	1AKB5	53WC38	44H583
2⅛"	3XU97	53WC40	44H584
2¼"	4CU99	53WC39	44H585
2⅜"	4CY12	—	44H586
2⅜"	2VFZ1	—	—
3"	2Q493	53WC41	44H587
3⅜"	1Y824	—	44H588
3⅝"	—	53WC43	—
4⅝"	2Q494	—	44H589

Description	Brand	Mfr. Model	Item No.
7⁄16" Hex Shank Extensions			
5½"L	Milwaukee	48-28-4001	2Q505
12" L	Milwaukee	48-28-4006	2Q506
18"L	Milwaukee	48 28 4011	2Q507
5½"L	Milwaukee	48-28-1030	45L177
12"L	Milwaukee	48-28-1040	45L178
18"L	Milwaukee	48-28-1050	45L179
24"L	Milwaukee	48-28-1060	45L180

Description	Includes	Brand	Mfr. Model	Item No.
Bit Kits				
Plumbers' Kit	⅞", 1⅛", 1¼", 1½" Auger Bits, 1¾", 2⅛", 2⅜" Dia. Self-Feed Bits, 5½" One-piece Shank and Coupling—Extension and Carrying Case.	Milwaukee	49-22-0065	2Q513
Contractors' Kit	1", 1⅛", 1¼", 1½", 1¾", 2⅛", 2⅜" Dia. Self-Feed Bits, 5½" One-Piece Shank and Coupling—Extension and Carrying Case.	Milwaukee	49-22-0130	2Q515


No. 2Q513


No. 1VXK2


No. 3EJD7


No. 1LPR4


No. 489P12


No. 53WP33

Hole Saw Kits

Bi-metal kits have M3 high speed steel cutting edge with a hardened steel backer. Carbide kits have a carbide-tipped or carbide grit cutting edge with a hardened steel backer.

No. of Pieces	Range of Saw Sizes	Includes	Primary Saw Application	Max. Cutting Depth	Brand	Mfr. Model	Item No.
Cylindrical Lock Installation Kits							
Bi-Metal							
3	1" to 2⅛"	(1) Pilot Drill 29VU93	Wood	1½"	Westward	—	**29VX11**
Steel							
5	1" to 2⅛"	Mandrel, Drilling Template Guide, Adapter	Wood	1¾"	DeWalt	D180004	**5TY57**
Electrician's Hole Saw Kits							
Bi-Metal							
8	⅞" to 2½"	(2) Arbors, Case	Metal	1½"	Westward	—	**1VXK2**
High Speed Steel							
9	⅞" to 1⅜"	Arbor with Pilot Bit, Additional Pilot Bit, Arbor Spacer, Arbor Adapter, Hex Key	Metal	1⅝"	Milwaukee	49-22-4088	**36FX73**
9	2" to 4½"	Arbor with Pilot Bit, Additional Pilot Bit, Hex Key	Metal	1⅝"	Milwaukee	49-22-4092	**36FX74**
11	⅞" to 2½"	(1) ⅞" Hole Dozer™ Bi-Metal Hole Saw, (1) 1⅛" Hole Dozer™ Bi-Metal Hole Saw, (1) 1⅜" Hole Dozer™ Bi-Metal Hole Saw, (1) 1¾" Hole Dozer Bi-Metal Hole Saw, (1) 2" Bi-Metal Hole Saw, (1) 2½" Hole Dozer™ Bi-Metal Hole Saw, (1)-3/8" Hex Shank Arbor, (2) 3½" Pilot Bit, (1) ⅛" Hex Key, (1) 7/16" No wobble Arbor	Metal	1⅝"	Milwaukee	49-22-4095	**3EJD7**
16	¾" to 4¾"	⅜ and 7/16" Hex Arbors with Pilot Bits; (3) Additional Pilot Bits and Hex Key	Metal	1⅝"	Milwaukee	49-22-4105	**11C837**
Steel							
9	⅞" to 2½"	Small Quick Change Mandrel, Large Quick Change Mandrel, Replacement Set	Wood	1¾"	DeWalt	D180002	**6UT74**
9	⅞" to 2½"	Small Quick Change Mandrel, Large Quick Change Mandrel, Replacement Set	Metal	1¾"	DeWalt	DWA1802	**29DZ38**
Hole Saw Kits							
Bi-Metal							
15	¾" to 3"	(2) Arbors 29VU99, 29VX02 with Pilot Drills, (1) 12" Ext. 29VX04, (1) Ejector Spring	Wood	1½"	Westward	—	**29VX15**
Carbide Grit							
11	¾" to 2½"	(9) Hole Saws, (2) Arbors with Pilot Bits	Specialty	1⅞"	Morse	MHSG100	**54HN56**
Locksmith's Hole Saw Kits							
Bi-Metal							
8	⅞" to 2⅛"	(2) Arbors (Mfr. No. M24C, M45PC), Black Plastic Case	Metal	1½"	Westward	—	**12G707**
High Speed Steel							
9	⅞" to 2⅛"	(2) Arbors with Pilot Bits, Hex Key	Wood	1⅝"	Milwaukee	49-22-4074	**36FX77**
Steel							
13	¾" to 2½"	Small Quick Change Mandrel, Large Quick Change Mandrel, Replacement Set	Wood	1¾"	DeWalt	D180005	**1LPR4**
MRO Hole Saw Kits							
Bi-Metal							
7	⅞" to 1½"	(5) Hole Saws and (1) arbor with Pilot Drill, (1) adapter nut	Metal	1⅞"	Morse	MHS05M	**53WM38**
8	¾" to 2¼"	(6) Hole Saws and (2) arbors with Pilot Drill	Metal	1⅞"	Morse	MHS04P	**53WP29**
10	¾" to 1½"	(2) Pilot Bits, Arbor, Spacer Adapter, Hex Key, Case	General Purpose	1⅝"	Milwaukee	49-22-4006	**489P12**
11	¾" to 2½"	(9) Hole Saws and (2) Arbors with Pilot Drill	Metal	1⅞"	Morse	MHS100	**53WP26**
12	¾" to 2½"	(2) Arbors, (1) 12" Ext., and Case	Metal	1½"	Westward	—	**1VXK3**
13	⅞" to 4½"	(10) Hole Saws and (3) arbors with Pilot Drill	Metal	1⅞"	Morse	MHS08E	**53WM61**
14	¾" to 3"	(11) Hole Saws and (2) Arbors with Pilot Drills, (1) 12" Extension	Metal	1⅞"	Morse	MHS08I	**53WM40**
15	¾" to 2½"	(4) 4" Pilot Drills 29VU93, (1) Flat Head Screwdriver, (1) 12" Extension 29VX04	Wood	1½"	Westward	—	**29VX23**
15	¾" to 4½"	(12) Hole Saws and (2) arbors with Pilot Drill, (2) extra Pilot Drills	Metal	1⅞"	Morse	MHS16P	**53WM52**
19	¾" to 4½"	(3) Arbors, (1) 12" Ext., Case	Metal	1½"	Westward	—	**1VXK4**
19	¾" to 4½"	(15) Hole Saws and (2) arbors with Pilot Drill, (1) 12" Extension	Metal	1⅞"	Morse	MHS06I	**53WM62**
24	¾" to 4¾"	(20) Hole Saws and (2) arbors with Pilot Drill, (1) 12" Extension, (2) extra Pilot Drills	Metal	1⅞"	Morse	MHS23M	**53WM67**
26	¾" to 4½"	(13) Bimetal Hole Saws, (9) Grit Hole Saws, (2) Arbors with Pilot Drill, (4) Extra Pilot Drills	Metal	1⅞"	Morse	MHSPLU01	**53WP34**
29	¾" to 4¾"	(16) Bimetal Hole Saws, (9) Grit Hole Saws, (2) Arbors with Pilot Drill, (3) Extra Pilot Drills	Metal	1⅞"	Morse	MHSELE01	**53WP33**
30	¾" to 6"	(1) 12" Extension, (3) Arbors With HSS Pilot Drill, ¼" Round Shank ½-20UNF, 7/16" Hex Shank ½-20UNF, 7/16" Hex Shank ⅝-18UNF, (2) ¼"x110mm HSS 9341 Pilot Drills, Aluminum Case	Metal	1½"	Westward	—	**12G709**
Carbide Tipped							
8	⅞" to 2½"	(6) Hole Saws and (2) arbors with Pilot Drill	Metal	1⅞"	Morse	MHS02E	**53WM39**
8	⅞" to 2½"	(6) Carbide Tipped hole saws and (2) Arbors with Pilot Drill	Metal	1⅞"	Morse	MHST02E	**53WL80**
10	2⅛" to 4¼"	2⅛" Cutter, 2¼" Cutter, 2⁹⁄₁₆" Cutter, 3" Cutter, 3⅝" Cutter, 4¼" Cutter, Arbor with Pilot Bit, File, (2) Pilot Bits	Wood	2¼"	Milwaukee	49-56-9290	**483K84**
11	¾" to 2½"	(2) Arbors	Metal	1⅞"	Morse	MHST100	**53WL81**
High Speed Steel							
13	¾" to 2½"	(2) ⅜" Hex Arbors with Pilot Bits, Hex Key, (2) Additional Pilot Bits	Metal	1⅝"	Milwaukee	49-22-4025	**11C836**
16	¾" to 2½"	⅜ and 7/16" Hex Arbors with Pilot Bits; (2) Additional Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4175	**11C839**
29	¾" to 4¾"	(1) ⅜ and (2) 7/16 Hex Arbors with Pilot Bits, (3) Additional Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4185	**3EJD9**
Steel							
3	⅞" to 1⅜"	(3) Metal Carbide Hole Saws, Replacement Bit w/Spring, Hex Wrench	Metal	¼"	DeWalt	DWACM1802	**44YX82**
Plumber's Hole Saw Kits							
Bi-Metal							
8	¾" to 2¼"	(2) Arbors (Mfr. No. M44C, M45PC), Black Plastic Case	Metal	1½"	Westward	—	**12G708**
High Speed Steel							
9	¾" to 1½"	Arbor with Pilot Bit, Arbor Spacer, Arbor Adapter, Additional Pilot Bit, Hex Key	Metal	1⅝"	Milwaukee	49-22-4138	**36FX75**
11	¾" to 2¼"	⅜ and 7/16" Hex Arbors Arbors wtih Pilot Bits, (2) Additional Pilot Bits, Hex Key, Adapter, Spacer	Metal	1⅝"	Milwaukee	49-22-4145	**11C838**
11	1½" to 4½"	Arbor with Pilot Bit, (3) Additional Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4142	**36FX76**
17	¾" to 4½"	⅜ and 7/16" Hex Arbors with Pilot Bits, (3) Additional Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4155	**3EJD8**
Steel							
9	¾" to 2¼"	Small Quick Change Mandrel, Large Quick Change Mandrel, Replacement Set	Metal	1¾"	DeWalt	DWA1801	**29DZ37**
9	¾" to 2¼"	Small Quick Change Mandrel, Large Quick Change Mandrel, Replacement Set	Metal	1¾"	DeWalt	D180001	**6UT72**
Refrigeration Hole Saw Kit							
High Speed Steel							
7	⅝" to 2⅛"	(2) Arbors with Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4079	**36FX78**
Welder's Hole Saw Kit							
High Speed Steel							
9	¾" to 2"	(2) Arbors with Pilot Bits, Hex Key	Metal	1⅝"	Milwaukee	49-22-4076	**36FX79**
Wood Hole Saw Kits							
Steel							
7	2⅛" to 3⅝"	(3) Hole Saw, Quick Change Mandrel, (3) Self Feed Pilot Bits	Wood	2¼"	DeWalt	DWAFV07SET	**49JR03**



No. 53WP15



No. 29DZ24



No. 54HP16

MORSE THE M. K. MORSE COMPANY · SUPPLIER DIVERSITY · WESTWARD · DEWALT · Milwaukee

Bimetal Hole Saws

Cut holes in wood, plastic, or any machinable metal. Hole saws with built-in arbor include 7/16" hex arbor and require pilot drill No. 53WM37, see page 708. Hole saws without built-in arbor require arbor, (ordered separately). Pilot drill is included with arbor.



No. 12T016

Saw Dia.	MORSE w/ out Arbor Item No.	MORSE w/ Built-In Arbor Item No.	WESTWARD w/out Arbor Item No.	DEWALT w/ out Arbor Item No.	MILWAUKEE w/out Arbor Item No.
¾ in	53WM45	54HP12	29VT99	29DY89	3EPY2
⅞ in	53WM42	54HP10	29VT97	29DY87	3EPX1
⅞ in	53WM48	54HP14	29VU02	29DY92	3ERF4
9/16 in	53WM41	54HP09	29VT96	29DY86	—
11/16 in	53WM44	54HP11	29VT98	29DY88	12R996
13/16 in	53WM47	54HP13	—	29DY91	12R997
15/16 in	53WM49	—	—	29DY93	12R998
1 1/16 in	53WM53	54HP17	29VU05	29DY95	12R999
1 ⅛ in	53WM68	54HP25	29VU12	29DZ03	3TGN4
1 ¼ in	53WM57	54HP21	29VU08	29DY98	3TGN2
1 ⅜ in	53WM54	54HP18	29VU06	29DY96	3TGN1
1 3/16 in	53WM56	54HP20	29VU07	29DY97	12T001
1 ¾ in	53WN89	54HP29	29VU16	29DZ07	3TGN6
1 ⅞ in	53WM63	54HP23	29VU10	29DZ01	3TGN3
1 ⅞ in	53WM70	—	—	—	—
1 5/16 in	53WM60	54HP22	—	29DY99	12T002
1 ⅝ in	53WN87	54HP27	29VU14	29DZ05	3TGN5
1 7/16 in	53WM66	54HP24	—	29DZ02	12T003
1 ⅞ in	53WN92	54HP31	—	29DZ09	3TGN7
1 9/16 in	—	54HP26	—	29DZ04	12T004
1 11/16 in	53WN88	54HP28	—	29DZ06	12T005
1 13/16 in	53WN91	54HP30	—	29DZ08	12T006
1 in	53WM51	54HP16	29VU04	29DY94	3TGL9
2 1/16 in	53WN95	54HP33	—	29DZ11	12T007
2 ½ in	53WP03	54HP38	29VU25	29DZ15	3TGP2
2 ¼ in	53WN98	54HP35	29VU22	29DZ13	3TGP1
2 ⅛ in	53WN96	54HP34	29VU21	29DZ12	3TGN9
2 ¾ in	53WP08	54HP41	29VU28	29DZ19	3TGP4
2 ⅜ in	53WP01	54HP37	29VU24	29DZ14	12T009
2 5/16 in	53WN99	54HP36	29VU23	—	12T008
2 ⅝ in	53WP05	54HP40	29VU27	29DZ17	3TGP3
2 ⅞ in	53WP09	54HP42	—	29DZ20	12T011
2 9/16 in	53WP04	54HP39	—	29DZ16	12T010
2 in	53WN94	54HP32	—	29DZ10	3TGN8
3 ½ in	53WP15	54HP47	29VU34	29DZ25	3TGP7
3 ¼ in	53WP13	54HP45	29VU32	29DZ23	3TGP6
3 ⅛ in	53WP12	54HP44	—	29DZ22	12T012
3 ¾ in	53WP17	54HP49	—	29DZ27	12T014
3 ⅜ in	53WP14	54HP46	—	29DZ24	12T013
3 ⅝ in	53WP16	54HP48	29VU35	29DZ26	3TGP8
3 ⅞ in	53WP18	54HP50	—	29DZ28	12T015
3 in	53WP11	54HP43	29VU30	29DZ21	3TGP5
4 ½ in	53WP24	—	—	29DZ32	3TGR3
4 ¼ in	53WP22	—	—	29DZ31	3TGR2
4 ⅛ in	53WP21	—	—	29DZ30	3TGR1
4 ¾ in	53WP25	—	29VU43	29DZ33	3TGR4
4 ⅜ in	53WP23	—	—	—	12T016
4 in	53WP20	54HP51	29VU38	29DZ29	3TGP9
5 ½ in	53WP30	—	29VU46	29DZ35	—
5 ¼ in	53WP28	—	29VU45	—	—
5 ¾ in	53WP31	—	—	—	—
5 in	53WP27	—	29VU44	29DZ34	3TGR5
6 in	53WP32	—	29VU48	29DZ36	3TGR6



No. 12Y449



No. 466J85

MORSE THE M. K. MORSE COMPANY · SUPPLIER DIVERSITY · Milwaukee

Carbide Hole Saws

CARBIDE GRIT

For use with ceramics, fiberglass, hardwoods, cast iron, and composites. Separate arbor required.

CARBIDE-TIPPED

For use with fiberglass, particle board, asbestos board, plaster, and Formica®. Separate arbor required.

Saw Dia.	MORSE w/out Arbor Item No.	MILWAUKEE w/out Arbor Item No.
Carbide Grit		
¾ in	—	12Y449
⅞ in	—	12Y450
1 in	—	12Y451
1 ⅛ in	—	12Y452
1 ¼ in	—	12Y453
1 ⅜ in	—	12Y454
1 ¾ in	—	12Y455
2 in	—	12Y456
2 ¼ in	—	12Y457
2 ½ in	—	12Y458
Tungsten Carbide Grit		
3/16 in	54HN61	—
¾ in	54HN60	—
⅞ in	54HN62	—
1 ⅛ in	54HN66	—
1 1/16 in	54HN65	—
1 ¼ in	54HN68	—
1 5/16 in	54HN69	—
1 7/16 in	54HN71	—
1 ⅜ in	54HN74	—
1 ⅞ in	54HN78	—
1 in	54HN64	—
1 ½ in	54HN72	—
1 ⅜ in	54HN70	—
1 ¾ in	54HN76	—
2 1/16 in	54HN80	—
2 ⅜ in	54HN84	—
2 ⅝ in	54HN87	—
2 ¾ in	54HN88	—
2 ⅞ in	54HN89	—
2 in	54HN79	—
2 ½ in	54HN85	—
2 ⅛ in	54HN81	—
2 ¼ in	54HN82	—
3 ¼ in	54HN92	—
3 ½ in	54HN94	—
3 ⅝ in	54HN95	—
3 ¾ in	54HN96	—
3 in	54HN90	—
4 in	54HN98	—
4 ⅛ in	54HN99	—
4 ¼ in	54HP01	—
4 ¾ in	54HP04	—
4 ½ in	54HP03	—
5 in	54HP05	—
6 in	54HP08	—

Saw Dia.	MORSE, w/o Arbor Item No.	MILWAUKEE, w/o Arbor Item No.
Carbide Tipped		
¾"	53WL83	466J85
13/16"	53WL84	—
⅞"	53WL85	466J86
1"	53WL87	466J87
1 1/16"	53WL88	—
1⅛"	53WL89	466J88
1¼"	53WL91	466J89
1 5/16"	53WL92	—
1⅜"	53WL93	466J90
1 7/16"	53WL94	—
1½"	53WL95	466J91
1⅝"	53WL97	—
1¾"	53WL99	466J92
1⅞"	53WM02	466J93
2"	53WM03	466J94
2 1/16"	53WM04	—
2⅛"	53WM05	—
2¼"	53WM06	466J95
2⅜"	53WM08	466J96
2½"	53WM09	466J97
2⅝"	53WM11	—
2¾"	53WM12	—
2⅞"	53WM13	—
3"	53WM14	466J99
3¼"	53WM16	—
3½"	53WM18	—
3⅝"	53WM19	—
3¾"	53WM20	—
4"	53WM22	—
4⅛"	53WM23	—
4¼"	53WM24	—
4⅜"	53WM25	—
4½"	53WM26	—
4¾"	53WM27	—
5"	53WM28	—
6"	53WM31	—



No. 13N969

Hole Saw Accessories

Shank Size	Shank Shape	Fits Hole Saw Dia.	Thread Size	Pilot Drill Included	Item No.
MORSE Steel Hole Saw Arbors					
For Use With Bimetal Hole Saws					
¼"	Hex	9/16" to 1 3/16"	½"-20	—	**53WM32**
7/16"	Hex	1 ¼" to 6"	5/8"-18	—	**53WM36**
⅜"	Hex	9/16" to 1 3/16"	½"-20	—	**53WM33**
For Use With Carbide and Bimetal Hole Saws					
⅜"	Hex	1 ¼" to 6"	½"-20	—	**53WM34**
⅜"	Hex	1 ¼" to 6"	5/8"-18	—	**53WM35**
Milwaukee Threaded Hole Saw Arbors					
¼"	Round	Up to 1 3/16"	½"-20	—	**13N969**
⅜"	Hex	Up to 1 3/16"	½"-20	3Y087	**3TGR9**
7/16"	Hex	Up to 1 3/16"	½"-20	3Y087	**5TJC8**
Milwaukee Hole Saw Arbors					
7/16"	Hex	1 ¼" and Larger	5/8"-18	3Y087	**3TGT4**
⅜"	Hex	1 ¼" and Larger	5/8"-18	3Y087	**5TJC9**
7/16"	Hex	1 ¼" and Larger	5/8"-18	3Y087	**5TJD0**
7/16"	Hex	1 ¼" and Larger	5/8"-18	3Y087	**3Y079**
Westward Hole Saw Arbors					
For Use With Bimetal Hole Saws					
¼"	Round	9/16" to 1 3/16"	½"-20	29VU93	**29VU95**
⅜"	Hex	9/16" to 1 3/16"	½"-20	29VX08	**29VU96**
⅜"	Hex	1 ¼" to 6"	5/8"-18	29VX08	**29VU98**
7/16"	Hex	1 ¼" to 6"	5/8"-18	29VU93	**29VX02**
DEWALT Hole Saw Arbors					
⅜"	Hex	1 ¼" to 3"	5/8"-18	2KLL3 Or 2KLL4	**2KLL3**
⅜"	Hex	9/16" to 1 3/16"	½"-20	2KLL3 Or 2KLL4	**2KLL4**
DEWALT Bi-Metal Hole Saw Arbors					
7/16"	Hex	1 ¼" to 6"	5/8"-18	—	**4KW62**
DEWALT Carbon Steel Pilot Drill Bits					
For Use With DEWALT(R) Flexvolt Carbide Hole Saws 1 3/8" to 6 ¼"					
7/16"	Hex	1 3/8"	—	—	**49JP87**

Shank Shape	Pilot Drill Size	Overall Length	For Use With	Item No.
¼" High Speed Steel Pilot Drill Bits				
Morse				
Round	¼" dia. x 3 3/32" L	3 3/32"	MHS, MHSA, MHSG, MHST Hole Saws	**53WM37**
Round	¼" dia. x 3 3/32" L	3 3/32"	MHS, MHSA, MHSG, MHST Hole Saws	**53WP35**
Milwaukee				
3-Flat	¼" dia. x 3 ½" L	3 ½"	Milwaukee Hole Saws	**3Y087**
3-Flat	¼" dia. x 4" L	4"	Milwaukee Hole Saws	**3Y083**
Westward				
Round	¼" dia. x 4" L	4"	Mfr. No. 29VU95, 29VU99, 29VX02	**29VU93**
1-Flat	¼" dia. x 3" L	3"	No. 29VU94, 29VU96, 29VU98	**29VX08**
¼" Pilot Drill Bits				
Milwaukee				
3-Flat	¼" dia. x 4" L	4"	Milwaukee Hole Saws	**13N970**
DeWalt				
1-Flat	¼" dia. x 3" L	3"	Mfr. No. DW1805, DW1810	**2KLL1**
3-Flat	¼" dia. x 4" L	4"	Mfr. No. DW1800, DW1803	**2KLL2**
1-Flat	¼" dia. x 2" L	2"	Mfr. No. DWACM1808	**44YX99**
1-Flat	⅜" dia. x 4 ¼" L	4 ¼"	DEWALT(R) Flexvolt Carbide Hole Saws 1 3/8" to 6 ¼"	**49JP86**

Description	For Use With	Item No.
Morse Carbon Steel Extension Arbors and Spring		
Arbor Extension	7/16" Hex Shank Arbors	**4XJ26**
Arbor Extension	⅜" Hex Shank Arbors	**4VV93**
Hole Saw Spring, Pk. of 5	All ¼" Pilot Drills	**4XJ27**
Arbor Adapter, Pk. of 5	Arbors with ½"-20 Threads to Fit Hole Saws with 5/8"-18 Threads	**4XJ23**
Milwaukee Extension and Spacer		
Extension, ⅜" Hex x 12" L	For ⅜" Hex Shank Hole Saw Arbors	**13N972**
Arbor Spacer	Arbor Adapter 49-56-6560	**13N971**

Impact Hole Saws

- ¼" quick-change hex shank
- 8 teeth per inch

Saw Dia.	Max. Cutting Depth	Item No.
Impact Hole Saws		
¾"	⅛"	**32PK29**
⅞"	⅛"	**32PK30**
1"	⅛"	**32PK31**
1 1/8"	⅛"	**32PK32**
1 ¼"	⅛"	**32PK33**
1 3/8"	⅛"	**32PK34**
1 ½"	⅛"	**32PK35**
3-Pc. Impact Hole Saw Set		
⅞", 1 1/8", 1 3/8"	½"	**32PK28**



No. 32PK29



No. 48Z644

Carbide Hole Cutters

Milwaukee—For cutting holes in sheet metal. Use with quick arbor No. 48Z566.

Morse—For cutting stainless steel, steel plate, aluminum, and copper. Include pilot bit. Item Nos. beginning with 45F are also for PVC/ABS and plastic.

DeWalt—These saws feature durable carbide teeth and deliver fast drilling. An ejection spring offers easy plug removal,and a raised shoulder helps to prevent breakthroughs.

Saw Dia.	MILWAUKEE ⅛" Cutting Depth Item No.	MORSE ⅛" Cutting Depth Item No.	DEWALT ¼" Cutting Depth Item No.	MORSE 1" Cutting Depth Item No.
¾"	**48Z644**	**36FV43**	**44YX80**	**36FV29**
13/16"	—	—	**44YX83**	—
⅞"	**48Z645**	**36FV44**	**44YY02**	**36FV30**
1"	**48Z646**	**36FV45**	**44YX97**	**36FV31**
1 1/8"	**48Z647**	**36FV46**	**44YX87**	**36FV32**
1 ¼"	**48Z649**	—	—	—
1 ¼"	**48Z648**	**36FV47**	**44YX88**	**36FV33**
1 3/8"	**48Z651**	**36FV48**	**44YX90**	**36FV34**
1 ½"	**48Z653**	**36FV49**	**44YX95**	**36FV35**
1 5/8"	—	**36FV50**	**44YY01**	**36FV36**
1 ¾"	**48Z654**	**36FV51**	**44YX84**	**36FV37**
1 7/8"	—	**36FV52**	—	**36FV38**
2"	**48Z655**	**36FV53**	**44YX94**	**36FV39**
2 1/8"	**48Z656**	**45FA60**	**44YX96**	—
2 ¼"	**48Z657**	**45FA62**	**44YX91**	—
2 3/8"	**48Z658**	**45FA64**	**44YX89**	—
2 ½"	**48Z659**	**45FA66**	**44YX79**	**45FC11**
2 5/8"	**48Z660**	**45FA68**	**44YX81**	—
2 ¾"	—	**45FA70**	—	—
2 7/8"	—	—	**44YX85**	—
3"	**48Z661**	—	**44YY04**	**45FC16**
3 ½"	—	—	**44YX93**	—
3 5/8"	—	—	**44YX86**	—
4"	—	—	**44YX92**	—

Recessed Lighting Hole Saws

- 1" max. cutting depth
- 5/8-18 arbor hole

Tungsten carbide grit saws cut through abrasive materials such as lath, plaster, and ceiling tile for quick, easy installation of fixtures.



No. 11C840

Saw Dia.	Mfr. Model	Item No.
3 1/8"	49-56-0296	**11C840**
4 3/8"	49-56-0300	**11C841**
5 3/8"	49-56-0303	**11C842**
6 3/8"	49-56-0305	**11C843**
6 5/8"	49-56-0310	**11C844**
6 7/8"	49-56-0315	**11C845**

Diamond Grit Hole Saws

- ½" max. cutting depth

For cutting granite, cement board, brick and masonry, ceramic tile, marble, fiberglass, and laminate flooring. Built-in mandrel.

Saw Dia.	Mfr. Model	Item No.
3/16"	DGM03C	**40L152**
¼"	DGM04C	**40L153**
5/16"	DGM05C	**40L154**
⅜"	DGM06C	**40L155**
½"	DGM08C	**40L156**
5/8"	DGM10C	**40L157**
¾"	DGM12C	**40L158**
1"	DGM16C	**40L159**
1 3/8"	DGM22C	**40L160**



No. 40L157



BOSCH

DEWALT

Glass and Natural Stone Tile Bits

Glass and tile bits have precision tips that help with bit wandering and bit walking. High-quality carbide tips with reinforced heads prevent bit cracking. Innovative geometry allows bit to drill faster. Bosch natural stone tile bits are designed for slate, granite, and specialty tile. These bits provide a multigrind head with multiple edges. They deliver 20% faster drilling in natural stone and tile than standard glass and tile bits.

Drill Bit Size	Shank Dia. (in.)	Overall Length (in.)	Item No.
Bosch Carbide, Natural Stone Tile Drill Bit			
1/8"	1/8	—	49XX66
3/16"	3/16	—	49XX67
1/4"	1/4	—	49XX68
5/16"	5/16	—	49XX69
3/8"	5/16	—	49XX70
1/2"	5/16	—	49XX71
Bosch Tungsten Carbide, Glass and Tile Drill Bit			
1/8"	1/8"	2"	3AEE4
3/16"	1/8"	2"	3AED7
1/4"	5/32"	2 1/4"	3AED8
5/16"	3/16"	2 1/4"	3AED9
3/8"	7/32"	2 1/4"	3AEE1
1/2"	1/4"	3 3/4"	3AEE2
5/8"	3/8"	4"	3AEE3
3/4"	3/8"	4"	3AEE5
7/8"	3/8"	4"	3AEE6
1"	3/8"	4"	3AEE7

Description	Item No.
Bosch Solid Carbide Glass and Tile Drill Bit Set	
4-Pc. ; 1/8", 3/16", 1/4", 5/16"	3AEE8
8-Pc. ; 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 And 3/4" Diameter Bits, Storage Case	3DRN1
Bosch Solid Carbide Natural Stone Tile Drill Bit Set	
4-Pc. ; 1/8, 3/16, 1/4, 5/16 Bits	49XX72



WESTWARD

BOSCH

Rotary Drill Masonry Bits

High-quality carbide tips for long life. Flat shank prevents bit slippage. For use with masonry fastening systems/hex sleeve drive tools. Ideal for working with brick, concrete, and block.

Note: For use in standard drills. Do not use in hammer drills or drill presses.

Drill Bit Size	Shank Size	Drilling Length	Overall Length	Item No.
Westward				
1/8"	3/32"	2"	3"	6PTF9
5/32"	5/32"	2"	3"	6PTE1
3/16"	5/32"	2 3/4"	4"	6PTC8
7/32"	3/16"	2 3/4"	4"	6PTF0
1/4"	3/16"	2 3/4"	4"	6PTE3
1/4"	3/16"	4 1/2"	6"	6PTD5
1/4"	3/16"	11 1/2"	13"	6PTF5
5/16"	1/4"	2 3/4"	4"	6PTD0
5/16"	1/4"	4 1/2"	6"	6PTD9
5/16"	1/4"	11 1/2"	13"	6PTF4
3/8"	9/32"	4 1/2"	6"	6PTD8
3/8"	5/16"	16 1/4"	18"	6PTE5
7/16"	5/16"	4 1/2"	6"	6PTE8
1/2"	3/8"	2 3/4"	4"	6PTF6
1/2"	3/8"	4 1/2"	6"	6PTD7
1/2"	13/32"	11 1/2"	13"	6PTD2
1/2"	13/32"	16 1/4"	18"	6PTE0
5/8"	3/8"	4 1/2"	6"	6PTE6
5/8"	3/8"	11 1/2"	13"	6PTF2
7/8"	1/2"	11 1/2"	13"	6PTF1
1"	1/2"	11 1/2"	13"	6PTD1
1"	1/2"	16 1/4"	18"	6PTD6
Bosch				
5/32"	5/32"	2 1/4"	3 1/2"	3LMU7
5/32" to 3/16"	—		4 1/2"	3VXW3
3/16"	3/16"	3 1/2"	5 1/2"	3LMV3

No. of Pieces	Drill Bit Sizes Included	Item No.
Westward Bit Sets		
7	3/16" x 3" L, 1/4" x 4" L, (2) 1/4" x 6" L, 5/16" x 6" L, 3/8" x 6" L, 1/2" x 6" L	6PTC5

BOSCH DEWALT

Hammer Drill Masonry Bits

Bosch BlueGranite Turbo™ carbide hammer drill bits are designed with a hex shank for use in today's higher torque hammer drills. Feature an upgraded four-grind head, delivering additional cutting angles for faster drilling. Multigrind centering tip also provides for precise starts in masonry, block, and concrete. DEWALT bits can power through masonry, concrete, rock and more. Feature rock carbide tips that maximize surface contact for extended bit life and a 4-flute design that cleans debris while you work.

Note: For use with hammer drills. Do not use with standard drills.


No. 46U328


No. 4LC02

Drill Bit Size	Shank Size	Drilling L	Overall L	Item No.	Pkg. Qty.
Bosch					
1/4"	1/4"	4"	6"	53DM29	1
1/4"	1/4"	10"	12"	53DM31	1
3/8"	5/16"	4"	6"	53DM34	1
1/2"	5/16"	4"	6"	53DM36	1
5/8"	3/8"	4"	6"	53DM38	1
5/8"	3/8"	10"	12"	53DM39	1
3/4"	3/8"	4"	6"	53DM40	1
3/4"	3/8"	10"	12"	53DM41	1
Blue Granite Series					
1/8"	1/4"	2"	4"	46U328	1
5/32"	1/4"	3"	6"	46U329	1
3/16"	1/4"	2"	2"	46U330	1
3/16"	1/4"	4"	6"	46U331	1
7/32"	1/4"	4"	6"	46U332	1
1/4"	1/4"	4"	6"	46U333	1
1/4"	1/4"	8"	10"	46U334	1
1/4"	1/4"	10"	12"	46U335	1
5/16"	1/4"	4"	6"	46U336	1
5/16"	1/4"	7 1/2"	8"	46U337	1
5/16"	1/4"	10"	12"	46U338	1
3/8"	1/4"	4"	6"	46U339	1
3/8"	1/4"	8"	10"	46U340	1
3/8"	1/4"	10"	12"	46U341	1
7/16"	1/4"	4"	6"	46U342	1
1/2"	1/4"	4"	6"	46U343	1
1/2"	1/4"	8"	10"	46U344	1
1/2"	1/4"	10"	12"	46U345	1
9/16"	1/4"	7 1/2"	8"	46U346	1
5/8"	1/4"	10"	12"	46U348	1
3/4"	1/4"	4"	6"	46U349	1
3/4"	1/4"	10"	12"	46U350	1
7/8"	1/4"	4"	6"	46U351	1
7/8"	1/4"	10"	12"	46U352	1
1"	1/4"	4"	6"	46U353	1
1"	1/4"	10"	12"	46U354	1
DeWalt					
1/8"	1/8"	2"	3"	4KZ93	1
5/32"	1/4"	2"	3"	4EB44	1
5/32"	1/4"	4"	6"	4PC23	1
3/16"	3/16"	2"	3"	4KZ94	1
3/16"	3/16"	4"	6"	4KZ95	1
3/16"	3/16"	4"	6"	1ELE3	25
1/4"	1/4"	2"	4"	4KZ96	1
1/4"	1/4"	2"	4"	1ELE4	25
1/4"	1/4"	4"	6"	4KZ97	1
1/4"	1/4"	4"	6"	1ELE5	25
1/4"	1/4"	7"	12"	4KZ98	1
5/16"	5/16"	4"	6"	4KZ99	1
5/16"	5/16"	7"	12"	4LC01	1
3/8"	3/8"	4"	6"	4LC02	1
3/8"	3/8"	4"	6"	1ELE6	25
3/8"	3/8"	10"	12"	4LC03	1
3/8"	3/8"	16"	18"	1GEF4	1
7/16"	3/8"	4"	6"	4LC04	1
1/2"	3/8"	4"	6"	4LC05	1
1/2"	3/8"	4"	6"	1ELE7	10
1/2"	3/8"	10"	12"	4LC06	1
1/2"	1/2"	16"	18"	1GEF6	1
1/2"	1/2"	22"	24"	1GEF7	1
5/8"	1/2"	4"	6"	4LC07	1
5/8"	1/2"	7"	12"	4LC08	1
3/4"	1/2"	4"	6"	4LC09	1
3/4"	1/2"	7"	12"	4LC10	1
7/8"	1/2"	7"	12"	4EB47	1
1"	1/2"	7"	12"	4LC11	1

No. of Cutter Heads	Drill Bit Sizes Included	Brand	Item No.
Bit Sets			
2	1/4" x 4",3/16" X 3",3/8" x 6",5/16" x 6"	DeWalt	4PC22
2	(2) 1/4" x 4", (1) 5/16" x 6", (1) 3/8" x 6", (1) 3/16" x 3", (1) 1/4" x 6", (1) 1/2" x 6"	DeWalt	4KZ92
2	1/8" x 2" x 3", (2) 5/32" x 3" x 6", (2) 3/16" x 4" x 6", 1/4" x 4" x 6", 3/8" x 4" x 6"	Bosch	46U358
2	1/8" x 2" x 3", 3/16" x 4" x 6", 1/4" x 4" x 6", 5/16" x 4" x 6", 3/8" x 4" x 6"	Bosch	46U355
2	5/32" x 2" x 3", 3/16" x 4" x 6", 1/4" x 4" x 6", 5/16" x 4" x 6", 3/8" x 4" x 6"	Bosch	46U356
2	(3) 5/32" x 4" x 6", (3) 3/16" x 4" x 6"	Bosch	46U357

BOSCH

Straight Shank Rebar Cutters

- Carbide-tipped

Drill through rebar in reinforced concrete. SDS-plus® shank eliminates need for separate drill. These long bits are fast and can be used with most common rotary hammers in rotation mode.

Drill Bit Size	Shank Size	Drilling Length	Overall Length	Item No.
3/8"	3/8"	9"	12"	6LFJ3
1/2"	3/8"	9"	12"	6LFJ4
1/2"	3/8"	12"	18"	6LFK3
9/16"	3/8"	9"	12"	6LFJ5
5/8"	1/2"	9"	12"	6LFJ6
5/8"	1/2"	12"	18"	6LFK4
3/4"	1/2"	9"	12"	6LFJ7
3/4"	1/2"	12"	18"	6LFK5
7/8"	1/2"	9"	12"	6LFJ8
1"	1/2"	9"	12"	6LFJ9
1 1/8"	1/2"	9"	12"	6LFK0
1 1/4"	1/2"	9"	12"	6LFK1
1 1/2"	1/2"	9"	12"	6LFK2


No. 6LFJ3



No. 5VC48



No. 39RY34

Corded Hammer Drills

- ½" chuck

Reversing, AC operation only. No. 3GRF6 features mid-handle design.

ROUND SHANK

DEWALT BOSCH

Amps	No Load RPM	Blows per Minute	Features	Tool Length	Tool Weight (lb.)	Brand	Mfr. Model	Item No.
7.0	0-2800	0-47,600	2-Mode, Variable Speed, Compact Design, Lock On Trigger	10 5/16"	3.7	DeWalt	DWE5010	**21RY66**
7.0	0-3000	0-48,000	Compact Design, Variable Speed Trigger, Dual Mode	11"	4.1	Bosch	1191VSRK	**2LDB1**
8.5	0-3000	0-46,000	Dual Mode, Soft Grip, 2-Finger Trigger, Variable Speed	11½"	4.3	DeWalt	DW511	**5VC48**
8.5	0-1200/0-3200	0-19,550/0-51,000	Variable Speed, Metal Gear Housing	13⅜"	5.8	Bosch	HD18-2	**39RY34**
9.2	0-900/0-3000	0-15,300/0-51,000	Metal Gear Case, Slip Clutch	13½"	5.9	Bosch	HD21-2	**5EEW4**
10.0	1-1200/0-3500	0-56,000	Metal Gearcase, Soft Grip Mid-Handle, Mode Collar Selector, Variable Speed	13"	6.0	DeWalt	DWD525K	**3GRF6**
10.0	1-1200/0-3500	0-56,000	Metal Gearcase, Soft Grip Pistol, Mode Collar Selector, Variable Speed	14"	6.0	DeWalt	DWD520K	**3GRF5**



No. 39RV99



No. 54EF82

Corded SDS Plus® Rotary Drills

BOSCH DEWALT

SDS plus

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
Pistol Grip Rotary Hammer Drills										
¾"	1½"	0-1000	0-4400	6.1	Dual Mode Selector, Integral Clutch Helps Minimize Torque Reaction	13¾"	5.4	Bosch	11250VSR	**35KG01**
1"	2½"	0-1500	0-5500	8.0	Pistol Grip Handle, High Performance Motor, Rotating Brush Ring, Integral Clutch	13¼"	5.7	DeWalt	D25133K	**39RW17**
D-Handle Rotary Hammer Drills										
1"	2½"	0-1500	0-5540	8.0	Vibration Control, High Performance Motor, Rotating Brush Ring, Integral Clutch	17¼"	6.6	DeWalt	D25262K	**39RW23**
1"	2⅝"	0-1300	0-5800	7.5	D-Handle, Aux Handle with Built-In Quick Release Depth Gauge	17¼"	6.7	Bosch	11255VSR	**2LDB3**
1⅛"	2½"	0-1450	0-5350	8.5	Vibration Control, High Performance Motor, Rotating Brush Ring, Integral Clutch	17¼"	6.8	DeWalt	D25263k	**39RV99**
1⅛"	2½"	0-1300	0-5100	8.5	Kickback Control, Counter Balanced Vibration Control, Vario-Lock™, Hammer Hook, Multifunction Selector	17 13/32"	6.9	Bosch	GBH2-28L	**54EF82**
Corded Side Handle Drills										
1⅛"	—	0-820	0-4700	9.0	Anti-Rotational Technology, Active Vibration Control, Grounded Plug, Three Modes of Operation, Variable Speed Trigger	14⅝"	9.2	DeWalt	D25416K	**30RV74**
1⅛"	2½"	0-1000	0-4800	8.5	3.5 J, Shocks Active Vibration Control® System, Constant Speed, Low Vibration Side Handle	13 19/32"	6.6	DeWalt	D25333K	**54JJ36**
L-Shape Rotary Hammer Drills										
½"	2½"	0-1000	0-4800	—	3.5 J, Shocks Active Vibration Control® System, Constant Speed, Low Vibration Side Handle, Durable Clear High Capacity Dust Box, Quick Release, Easily Adjusted Depth Stop	13 19/32"	6.6	DeWalt	D25333KDH	**54JJ37**
1⅛"	2½"	0-1150	0-5200	4.0	Mechanical Clutch, Compact, Lightweight	13 63/64"	8.2	DeWalt	D25333K-QS	**437K02**
1⅛"	3⅛"	0-900	0-4000	8.0	Active Vibration Control, Rotary or Hammer Only and Rotation	13⅜"	7.9	Bosch	RH328VCQ	**5EEW2**
1⅛"	3⅛"	0-900	0-4000	8.0	360° Auxiliary Handle, Integral Clutch, Multi-function Selector, Variable Speed 3 Finger Trigger, Active Vibration Control™	12½"	7.7	Bosch	RH328VC	**49AX82**
1¼"	3½"	0-760	0-3600	8.5	Active Vibration Control	15¾"	10.3	Bosch	RH432VCQ	**5EEW3**

Description	Mfr. Model	Item No.
Accessories		
Bosch		
½" Chuck w/Key and SDS Plus Arbor Adapter	1618571014	**1UL64**
Core Bit Dust Extraction Attachment, For Use with 1⅜" Vacuum Hoses	HDC250	**35GN78**
Dust Extraction Attachment, For Use with Mfr. No. 11253VSR, 11255VSR, RH228VC, RH328VC, RH328VCQ, RHH181-01, 11536-C, 11536VSR	HDC100	**423N84**
Hammer Drill Dust Extractor Attachment, For Use with 1⅜" Vacuum Hoses	HDC200	**35GN79**
SDS Right Angle Attachment, 4½" L	RHA-50	**35KF98**
SDS Right Angle Attachment, 5⅛" L	1618580000	**2LDB4**
DeWalt		
Corded and Cordless Dust Extractor, Dust Box, Corded Adapter and Dust Nozzle	DWH304DH	**54JJ53**
Dust Extractor - Hole Cleaning; Includes 5/16 and 9/16" Hole Cleaning Tubes, 1⅛ and 2" Hole Drilling Head Attachments, Dust Extractor Body	DWH050K	**19M477**



No. 54DC99



No. 48XY46

BOSCH DEWALT

SDS max

Corded SDS Max® Rotary Drills & Demolition Hammers

CORDED DEMOLITION HAMMERS

Use to demolish and chisel concrete. Also capable of edging, compacting, grooving, cutting, stripping, and roughing.

Impact Energy	Blows per Minute	Amps	Features	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
D-Handle Demolition Hammer								
5.6 ft.-lb.	1350 to 2800	10.0	Tool-Free Bit Changing System, Vario-Lock™ Locks Chisel in 12 Different Positions	18"	12.4	Bosch	DH507	**35KF35**
5.9 ft.-lb.	1430 to 2840	13.5	SHOCKS® Vibration Control, 7-Setting Electronic Variable Speed Dial, Slider Lock-on Switch	18⅝"	13.6	DeWalt	D25831K	**5YAW2**
6.1 ft.-lb.	1300 to 2900	13.0	Soft Grip Vibration Control, Dial Speed Control, Soft Start, 12-Position Variable Lock Tool Holder	18⅝"	12.8	Bosch	11321EVS	**4GAE5**
9.6 ft.-lb.	1380 to 2760	14.5	Vibration Control™, Constant Response™ Circuitry, Soft-Start Control and Overload Protection, Vario-Lock™ Positioning, Chisel Rotation 12 Position, Variable Speed, Service Minder™ Light, Power Light	21 5/16"	18.2	Bosch	DH712VC	**53DM92**
12.4 ft.-lb.	900 to 1890	14.0	Electronics Package, Service Reminder Light	22½"	22.5	Bosch	11316EVS	**4WN49**
12.5 ft.-lb.	2705	15.0	Shocks Active Vibration Control®, Variable Speed Dial, Constant Speed Control, Electronics Application, On/Off Style Rocker Switch	21 27/64"	18.9	DeWalt	D25872K	**54JK35**
13.2 ft.-lb.	2040	14.0	Slider Lock-on Switch, One Hand Chisel Rotation 12 Position	25¾"	21.2	DeWalt	D25899K	**2NER3**
14.0 ft.-lb.	1020 to 2040	14.0	SHOCKS® Active Vibration Control, 19-Setting Electronic Variable Speed Dial, One Hand Chisel Rotation 12 Position	26¾"	23.4	DeWalt	D25901K	**2NER4**
17.0 ft.-lb.	850 to 1800	15.0	Anti-Vibration Control in The Hammer Mechanism	27½"	25.4	Bosch	DH1020VC	**21TY31**
17.7 ft.-lb.	1620	15.0	Vibration Control, Constant Speed Control, Ergonomic Handle, Suitable For Bits And Accessories With SDS-Max Shank End	29 45/64"	29.3	DeWalt	D25951K	**487D91**
Side Handle Demolition Hammer								
5.2 ft.-lb.	0 to 3100	10.5	Constant Speed Control	18 3/16"	12.6	DeWalt	D25810K	**54DC99**

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
Rotary Hammer Drills										
½"	5"	0-355	0-2705	15.0	E-Clutch® System Shocks, Active Vibration Control®, Variable Speed	21 27/64"	20.2	DeWalt	D25733K	**54JK33**
½"	6"	0-290	0-2210	15.0	E-Clutch® System Shocks, Active Vibration Control®, Variable Speed	23 17/64"	23.2	DeWalt	D25773K	**54JK32**
1 9/16"	4"	170-340	1500-2900	12.0	Innovative Service Modules, Integral clutch	19"	15.2	Bosch	RH540M	**30RW21**
1⅝"	4⅛"	170-340	1700-2900	13.0	Vibration Control, 1-Hand Tool Change, Dial Speed Control	18"	14.3	Bosch	11264EVS	**4GAE3**
1¾"	4"	210-415	1430-2840	13.5	Active Vibration Control System, Electronic Variable Impact Energy/Speed, Dial Speed Control, Variable Speed 3 Finger Trigger	18 39/64"	15.1	DeWalt	D25604K	**487D89**
1¾"	6"	150-305	0-2760	13.5	Dual Mode Selector, Turbo Power, Service Minder Light, Vario-Lock Rotates Locks Chisel Into 12 Different Positions	21"	18.5	Bosch	RH745	**35ZD85**
1⅞"	6"	0-3000	1350-2800	13.5	Tuned Mass Damper Anti-Vibration System	25"	19.7	Bosch	RH850VC	**21TY29**
2"	6"	100-220	0-1100/0-2400/0-3100	15.0	Turbo Power, Active Vibration Control, Vario-Lock, 2-Drilling Speeds	23½"	26.2	Bosch	RH1255VC	**48XY46**

Description	Mfr. Model	Item No.
Accessories		
Bosch		
SDS Max To ½-20 Arbor Adapter	HA1032	**2LDE5**
SDS Max To SDS Plus Adapter	HA1030	**2LDE4**
SDS Max to Spline Adapter	HA1031	**1UL72**

BOSCH
DEWALT
WESTWARD

Multimaterial Drill Bits

- Bulk packs available on Grainger.com®

Drill through brick, block, ceramic tile, marble, wood, drywall, gypsum board, limestone, slate, plastics, sheet metal, and cast iron. Use with corded or cordless drills.



No. 34D629

Drill Bit Size	Overall Length	Shank Shape	Item No.
Individual Bits			
Bosch			
5/32"	6"	Round	46U366
5/32"	6"	Hex	48XX30
3/16"	6"	Hex	48XX31
1/4"	6"	Hex	48XX32
5/16"	6"	Hex	48XX33
3/8"	6"	Hex	48XX34
1/2"	6"	Hex	48XX35
DeWalt			
1/8"	4 1/2"	3-Flat	34D629
5/32"	4"	3-Flat	34D630
3/16"	4 1/2"	3-Flat	34D631
1/4"	4 3/4"	3-Flat	34D633

Drill Bit Size	Overall Length	Shank Shape	Item No.
5/16"	5 1/4"	3-Flat	34D634
3/8"	5 1/4"	3-Flat	34D635
Westward			
7/32"	4"	Round	20UR62
1/4"	4"	Round	20UR71

No. of Pieces	Includes Sizes	Item No.
Drill Bit Sets		
DeWalt		
5	1/8" to 3/8"	34D628
Westward		
5	1/8" to 5/16"	20UR73
10	1/8" to 1/2"	20UR67



No. 4TG02

SDS Plus® 2-Cutter Bits

BOSCH DEWALT

SDS plus

Carbide-tipped for long life in tough applications. Centric tips ensure quick starts in concrete. Wear mark alerts user when tip wears beyond ANSI specification. Bits runs cooler due to improved flute design. Fit all rotary hammer drills with SDS Plus® (4-flute drills).

Drill Bit Size	Drilling Length	Overall Length	BOSCH Item No.	DEWALT Item No.
5/32"	2"	4"	48XX54	—
5/32"	3 1/2"	6 1/2"	19L468	—
5/32"	4"	6"	19L455	—
5/32"	6"	8"	44H186	—
3/16"	2"	4"	48XX55	4TG02
3/16"	4"	6"	19L458	—
3/16"	4 1/2"	6 1/2"	—	4TG04
3/16"	5"	7"	19L464	—
3/16"	6"	8"	4XD55	—
3/16"	6 1/2"	8 1/2"	—	4TG06
3/16"	8"	10"	—	4TG08
3/16"	10"	12"	4XD56	4TG10
3/16"	12"	14"	—	4TG12
3/16"	14"	16"	—	4TG13
3/16"	16"	18"	44H196	—
7/32"	4"	6"	48XX56	4TG14
7/32"	6"	8"	44H199	—
7/32"	8"	10"	—	4TG16
7/32"	10"	12"	44H201	—
1/4"	2"	4"	4XD57	4TG17
1/4"	4"	6"	19L461	4TG19
1/4"	4"	6 1/2"	44H239	—
1/4"	6"	8"	19L472	—
1/4"	10"	12"	44H209	4TG23
1/4"	12"	14"	—	4TG24
1/4"	16"	18"	44H210	—
5/16"	4"	6"	19L471	4TG25
5/16"	6"	8"	44H213	—
5/16"	10"	12"	48XX58	4TG27
5/16"	16"	18"	44H214	—
3/8"	4"	6"	19L462	4TG28
3/8"	6"	8"	44H218	—
3/8"	8"	10"	—	4TG30
3/8"	10"	12"	—	4TG31
3/8"	12"	12"	19L467	—
3/8"	16"	18"	48XX60	4TG32
3/8"	22"	24"	4XD64	4TG33
3/8"	37"	39"	44H221	—
7/16"	4"	6"	—	4TG34
7/16"	6"	8"	44H222	—
7/16"	10"	12"	—	4TG35
7/16"	16"	18"	—	4DV47
1/2"	4"	6"	19L456	4TG36
1/2"	6"	8"	44H226	—
1/2"	8"	10"	—	4TG38
1/2"	10"	12"	19L457	4TG39
1/2"	16"	18"	19L470	4TG40
1/2"	22"	24"	48XX61	4TG41
1/2"	37"	39"	44H229	—
9/16"	4"	6"	—	4TG42
9/16"	6"	8"	44H230	—
9/16"	10"	12"	48XX62	4TG43
9/16"	16"	18"	48XX63	4TG44
5/8"	6"	8"	19L460	4TG45
5/8"	10"	12"	19L465	4TG47
5/8"	16"	18"	4XD73	4TG48
5/8"	22"	24"	4XD71	4TG49
5/8"	37"	39"	44H233	—
11/16"	6"	8"	—	4TG50
3/4"	6"	8"	19L466	4TG51
3/4"	10"	12"	19L459	4TG52
3/4"	16"	18"	19L469	4TG53
3/4"	22"	24"	48XX65	4TG54
3/4"	37"	39"	44H234	—
7/8"	6"	8"	—	4TG55
7/8"	8"	10"	44H235	—
7/8"	10"	12"	—	4TG56
7/8"	16"	18"	48XX66	4TG57
1"	8"	10"	4XD80	4TG58
1"	16"	18"	19L463	4TG59

No. of Pieces	Drill Bit Sizes Included	Brand	Item No.
Bit Sets			
5	3/16" x 6 1/2", 1/4" x 4", 1/4" x 6", 3/8" x 6", 1/2" x 6"	DeWalt	4TG60
5	3/16" x 4" x 6", 1/4" x 2" x 4", 1/4" x 4" x 6", 3/8" x 4" x 6", 1/2" x 4" x 6"	Bosch	44H334
8	5/32", 3/16"	Bosch	44H237



No. 6LFH8

BOSCH DEWALT

SDS plus

SDS Plus® Stop Bits

For masonry drilling.

Bit Dia.	Drilling Length	Brand	Item No.
3/8"	1 1/16"	Bosch	6LFH8
3/8"	25/32"	DeWalt	54FH84
3/8"	1 3/16"	DeWalt	54FH85
1/2"	13/16"	Bosch	6LFH9
1/2"	1 11/16"	Bosch	6LFJ0
1/2"	13/16"	DeWalt	54FH86
1/2"	1 11/16"	DeWalt	54FH87
5/8"	1 3/16"	Bosch	6LFJ1
5/8"	2 1/16"	Bosch	6LFJ2
5/8"	1 1/4"	DeWalt	54FH88
5/8"	2 3/16"	DeWalt	54FH89



No. 2KLJ2

SDS Plus® 4-Cutter Bits

BOSCH DEWALT

SDS plus

4 cutting tips provide optimal drilling for all types of concrete.

Drill Bit Size	Drilling Length	Overall Length	BOSCH Item No.	DEWALT Item No.
5/32"	2"	4"	48XX37	—
5/32"	4"	6"	48XX38	—
3/16"	8"	10"	48XX39	—
3/16"	10"	12"	44H195	—
3/16"	12"	14"	48XX40	—
7/32"	4"	6 1/2"	48XX41	—
7/32"	6"	8 1/2"	48XX42	—
7/32"	10"	12"	48XX43	—
1/4"	8"	10"	48XX44	—
1/4"	12"	14"	48XX45	—
7/16"	4"	6"	48XX46	—
7/16"	10"	12"	5VD99	—
7/16"	10"	12"	48XX47	—
9/16"	4"	6"	48XX48	—
9/16"	6"	8"	44H230	—
9/16"	6"	8"	48XX49	—
9/16"	10"	12"	48XX50	—
9/16"	10"	12"	48XX62	—
5/8"	16"	18"	—	2KLJ2
3/4"	6"	8"	48XX52	—
3/4"	8"	10"	36H216	—
3/4"	16"	18"	36H217	2KLJ4
7/8"	8"	10"	36H218	—
7/8"	10"	12"	48XX53	—
7/8"	16"	18"	36H219	2KLJ6
1"	8"	10"	36H220	2KLJ7
1"	16"	18"	36H221	2KLJ8
1 1/8"	8"	10"	36H222	2KLJ9
1 1/8"	16"	18"	36H223	2KLK1



No. 36H181

SDS Plus® Full Head Carbide Bits

BOSCH DEWALT

SDS plus

For drilling in hard concrete with rebar, and for precision anchoring applications.

Drill Bit Size	Drilling Length	Overall Length	Item No.
Bosch			
3/16"	2"	4"	36H183
3/16"	4"	6 1/2"	36H184
3/16"	6"	8 1/2"	36H185
3/16"	10"	12"	36H186
1/4"	2"	4"	36H187
1/4"	4"	6"	36H188
1/4"	6"	8 1/2"	36H189
1/4"	10"	12"	36H190
5/16"	4"	6"	36H191
5/16"	10"	12"	36H192
3/8"	4"	6"	36H193
3/8"	10"	12"	36H194
3/8"	16"	18"	36H195
1/2"	4"	6"	36H210
1/2"	10"	12"	36H212
1/2"	16"	18"	36H214
5/8"	6"	8"	36H215
5/8"	10"	12"	36H181
5/8"	16"	18"	36H182
11/16"	12"	18"	48UR92
3/4"	8"	10"	36H216
3/4"	12"	18"	48UR93
3/4"	16"	18"	36H217
7/8"	8"	10"	36H218
7/8"	16"	18"	36H219
1"	8"	10"	36H220
1"	16"	18"	36H221
1 1/8"	8"	10"	36H222
1 1/8"	16"	18"	36H223
DeWalt High Impact Carbide			
3/16"	4"	6 1/2"	2PRE1
3/16"	6"	8 1/2"	2PRE3
3/16"	10"	12"	2PRE7
7/32"	8"	10"	2PRF3
1/4"	4"	6"	2PRF6
1/4"	6"	8 1/2"	2PRF8
1/4"	10"	12"	38A907
1/4"	12"	14"	2PRG1
5/16"	4"	6 1/2"	2PRG2
5/16"	10"	12"	2PRG4
3/8"	8"	10"	2PRG7
3/8"	10"	12"	38A908
3/8"	16"	18"	2PRG8
1/2"	4"	6"	4YEC4
1/2"	8"	10 1/2"	4YEC6
1/2"	10"	12"	4YEC7
1/2"	16"	18"	4YEC8



No. 54FH75

SDS Plus® Hollow Bits

BOSCH DEWALT

SDS plus

When used with a dust extractor, DeWalt's solid carbide hollow drill bits extract dust while drilling. The result is less dust, fast holes, and fast adhesive anchor installation. This minimizes the user's exposure to dust while drilling and adheres to OSHA Table 1 compliance. Connect these bits directly to DeWalt's Airlock System to form a secure, locking connection. Bosch Speed Clean™ bits connect to a vacuum system for time savings when compared with the conventional drill-blow-brush-blow method. Less dust and friction also result in faster drilling. Include rubber adapter and work with vacuum system to manage airborne silica. Optimized for adhesive anchoring.

Drill Bit Size	Drilling Length	Overall Length	No. of Cutter Heads	Item No.
Bosch				
1/2"	7 1/2"	13"	4	48UR89
9/16"	10"	15"	4	48UR90
5/8"	10"	15"	4	48UR91
3/4"	12"	18"	4	48UR93
DeWalt High Impact Carbide				
1/2"	9 3/4"	14 1/2"	2	54FH75
9/16"	9 3/4"	14 1/2"	2	54FH78
5/8"	9 3/4"	14 1/2"	2	54FH77
3/4"	9 3/4"	14 1/2"	2	54FH76


No. 451N47

Milwaukee SDS plus

SDS Plus® Diamond Coring Bits

Dry bits have 2" drilling depth and barrel vents for cooling. Use for cutting brick and concrete block. 5/8"-11 thread size.

Bit Dia.	Item No.
1 3/16"	451N47
1 3/8"	451N48
1 9/16"	451N49
1 3/4"	451N50
2"	451N51
2 9/16"	451N52
3 1/8"	451N53
3 9/16"	451N54
4"	451N55
4 3/8"	451N56


No. 4LC58


No. 1UL66

DEWALT BOSCH SDS plus

SDS Plus® Chisels

For use with SDS Plus® hammer drills and chipping hammers.

Description	Blade Width (in.)	Overall Length (in.)	Item No.
DeWalt			
Bull Point	—	10	4LC57
Scaling Chisel	1 1/2	10	4LC58
Cold Chisel	—	10	4LC59
High Impact			
Bull Point	—	12	34D574
Scaling Chisel	1 1/2	12	34D575
Bosch			
Bull Point	—	10	1UL65
Point Chisel	—	8	2LDA5
Point Chisel	—	10	2LDA4
Stubby Scaling Chisel	1 1/2	5 3/4	2LDA6
Flat Chisel	3/4	10	1UL66
Viper Flat Chisel	3/4	10	2LDA3
Stubby Flat Chisel	3/4	5 3/4	2LDA8
Tile Chisel	1 1/2	10 1/2	2LDA2
Wide Chisel	1 1/2	10	2LCZ5


No. 2PPZ1

BOSCH SDS plus

SDS Plus® Rebar Cutters

- 12" overall length

For drilling through rebar embedded in concrete.

Drill Bit Size	Mfr. Model	Item No.
3/8"	RC2064	2PPZ1
1/2"	RC2084	2PPZ2
9/16"	RC2094	2PPZ3
5/8"	RC2104	2PPZ4
3/4"	RC2124	2PPZ5
7/8"	RC2144	2PPZ6
1"	RC2164	2PPZ7
1 1/8"	RC2168	2PPZ8
1 1/4"	RC2172	2PPZ9
1 1/2"	RC2176	2PRA1


No. 22PN46

BOSCH DEWALT SDS max

SDS Max® 2-Cutter Rotary Hammer Bits

Drill Bit Size	Drilling Length	Overall Length	Item No.
Bosch			
3/8"	8"	13"	40ZJ30
1/2"	8"	13"	40ZJ37
1/2"	16"	21"	40ZJ48
1/2"	24"	29"	40ZJ47
9/16"	8"	13"	40ZJ63
9/16"	16"	21"	40ZJ35
9/16"	24"	29"	40ZJ28
DeWalt			
1/2"	8"	13 1/2"	4LD33
1/2"	16"	21 1/2"	4LD34
9/16"	16"	21 1/2"	5MP61
5/8"	16"	21 1/2"	22PN45
3/4"	8"	13 1/2"	22PN46
3/4"	16"	21 1/2"	22PN47
7/8"	16"	21 1/2"	22PN49
1"	16"	21 1/2"	22PN51


No. 2LDG5

BOSCH SDS max

SDS Max® Through-Hole Bits

For concrete and masonry drilling with SDS Max rotary hammers.

Drill Bit Size	Drilling Length	Overall Length	Item No.
1 3/4"	18"	24"	2LDG5
2 1/8"	18"	24"	2LDG6
2 1/2"	18"	24"	2LDG7
3 1/8"	18"	24"	2LDG8


No. 4LD35

BOSCH DEWALT SDS max

SDS Max® 4-Cutter Rotary Hammer Bits

BOSCH SPEED X™

Dust extraction bits are built to extract dust while drilling for faster drilling speeds. Solid carbide head and S-cutter design provide added speed and durability.

DEWALT HIGH-IMPACT CARBIDE™

Bits feature innovative high-impact tips that maximize surface contact for long bit life and an open-head design that channels dust into flutes for fast drilling. An elongated helix expedites mill removal, and a hardened core helps to reduce bit breakage.

Bit Dia.	Drilling Length	Overall Length	Item No.
BOSCH Speed X™			
5/8"	8"	13"	40ZJ56
5/8"	16"	21"	40ZJ58
5/8"	24"	29"	40ZJ51
11/16"	16"	21"	40ZJ31
3/4"	8"	13"	40ZJ62
3/4"	16"	21"	40ZJ29
3/4"	31"	36"	40ZJ67
13/16"	16"	21"	40ZJ40
7/8"	8"	13"	40ZJ34
7/8"	24"	29"	40ZJ43
1"	8"	13"	40ZJ64
1"	16"	21"	40ZJ45
1"	31"	36"	40ZJ65
1 1/8"	8"	13"	40ZJ68
1 1/8"	16"	21"	40ZJ53
1 1/4"	8"	13"	40ZJ46
1 1/4"	16"	21"	40ZJ44
1 1/4"	31"	36"	40ZJ59
1 3/8"	16"	21"	40ZJ52
1 3/8"	31"	36"	40ZJ57
1 1/2"	16"	21"	40ZJ32
1 3/4"	16"	21"	40ZJ60
2"	16"	21"	40ZJ66
DEWALT High Impact			
5/8"	8"	13 1/2"	4LD35
5/8"	16"	21 1/2"	4LD36
5/8"	31"	36"	5MP62
11/16"	16"	21 1/2"	5MP63
3/4"	8"	13 1/2"	4LD37
3/4"	16"	21 1/2"	4LD38
3/4"	31"	36"	5MP64
13/16"	16"	21 1/2"	5MP65
7/8"	8"	13 1/2"	4LD39
7/8"	16"	21 1/2"	4LD40
7/8"	31"	36"	22PN35
1"	8"	13 1/2"	4LD41
1"	16"	21 1/2"	4LD42
1"	24"	29"	22PN36
1"	31"	36"	5MP67
1 1/8"	10"	15"	4LD43
1 1/8"	18"	22 1/2"	4LD44
1 1/8"	24"	29"	22PN38
1 1/8"	31"	36"	22PN39
1 1/4"	10"	15"	4LD45
1 1/4"	18"	22 1/2"	4LD46
1 1/4"	24"	29"	22PN37
1 1/4"	31"	36"	5MP69
1 3/8"	18"	22 1/2"	4LD47
1 3/8"	24"	29"	22PN40
1 3/8"	31"	36"	22PN41
1 1/2"	18"	22 1/2"	4LD48
1 1/2"	24"	29"	22PN42
1 1/2"	31"	36"	22PN43
1 3/4"	18"	22 1/2"	4PC28
2"	18"	22 1/2"	4PC29



No. 2LDE8

DEWALT BOSCH SDS max

SDS Max® Core Bits with Shank

One-piece design eliminates the need to change shanks.

Bit Dia.	OVERALL LENGTH 12" Drilling Length (in.)	12" Item No.	22" Drilling Length (in.)	22" Item No.
DeWalt				
1¾"	12	3AB17	22	3AB18
2"	12	3AB19	22	3AB20
2¾"	12	3AB21	22	3AB22
3¼"	12	3AB23	22	3AB24
3½"	12	3AB25	22	3AB26
4"	12	3AB27	22	3AB28
5"	—	—	22	3AB29
6"	—	—	22	3AB30

Size (in.)	Drilling Length (in.)	Overall Length	Item No.
Bosch			
1¾	7	12"	2LDE8
1¾	17	22"	2LDE9
2	7	12"	2LDF1
2	17	22"	2LDF2
2⅝	7	12"	2LDF3
2⅝	17	22"	20PK61
3⅛	2⅜	2¾"	13D642
3¼	17	22"	2LDF6
3⁹⁄₁₆	17	22"	2LDF8
4	7	12"	2LDF9
4	12	17"	2LDG1
5	17	22"	2LDG2
6	17	22"	2LDG3
2¼	7	12"	20PK59
2¼	17	22"	20PK60
5	7	12"	20PK62



No. 20PK64

DEWALT BOSCH SDS max

SDS Max® Core Drill Bits

- Carbide tipped

Size (in.)	Drilling Length (in.)	Overall Length	Item No.
Bosch Core Bit Extension			
—	—	8"	20PK72
—	—	18"	20PK73
Bosch Core Bit			
1¾	2⅝	7"	20PK64
2	2⅝	7"	20PK65
2⅝	2⅝	7"	20PK66
3¼"	2⅝	7"	20PK67
3⁹⁄₁₆	2⅝	7"	20PK68
4	2⅝	7"	20PK69
5	2⅝	7"	20PK70
6	2⅝	7"	20PK71

Description	Item No.
DEWALT Shanks and Centering Bits	
7" SDS Max® Shank	4LT25
16" SDS Max® Shank	1EZ68
Core Bit Pilot Drill	4LD65 *

** Required for use with standard core body.*



No. 4LD49



No. 45L253



No. 45L245

DEWALT Milwaukee BOSCH SDS max

SDS Max® Demolition Steel and Tools

For demolition and rotary hammers that accept SDS Max® shank drill bits.

Description	Blade Width (in.)	Overall Length (in.)	Item No.
DeWalt			
High Impact Steel			
Bull Point	—	12	34D577
Bull Point	—	16	34D578
Cold Chisel	1	12	34D579
Cold Chisel	1	16	34D580
Scaling Chisel	2	16	34D581
Scaling Chisel	3	16	34D582
Standard			
Bull Point	—	12	4LD49
Bull Point	—	18	4LD50
Cold Chisel	1	12	4LD51
Cold Chisel	1	18	4LD52
Scaling Chisel	2	12	4LD54
Scaling Chisel	3	12	5MP70
Bush Tool w/Shank	2	9⅜	4LD56
Bushing Tool	1½ x 1½	10	19TF54
Ground Rod Driver	—	—	4LD57
Asphalt Cutter	5	16	1EC37
Milwaukee			
Bull Point	—	12	45L248
Bull Point	—	18	45L249
Scaling Chisel	1½	12	45L253
Scaling Chisel	2	12	45L254
Scaling Chisel	3	12	45L255
Scraping Chisel	2	12	45L256
Flat Chisel	1	12	45L250
Flat Chisel	1	18	45L252
Slotting Chisel	1¼	12	45L247
Asphalt Cutter	5	16- ½	45L245
Bushing Tool	1½	9- ½	45L226
Bushing Tool	1¾	10½	45L244
Ground Rod Driver	—	9- ¾	45L257
Tamper Shank	—	12	45L258
Bosch			
Bull Point	—	12	6MR15
Scaling Chisel	1½	12	1UL93
Scaling Chisel	2	14	1UL94
Scaling Chisel	3	12	1UL90
Scraping Chisel	2	12	2LDP4
Flat Chisel	1	12	6MR14
Flat Chisel	1	18	20PK75
R Tec Flat Chisel	—	16"	6LFH7
R Tec Point Chisel Bit	—	16"	6LFH6
Floor Scraper	6	25	1UL95
Clay Spade	4½	17	1UL96
Asphalt Cutter	4¾	15	1UL88
Bush Tool w/Shank	1¾ x 1¾	9¼	1UL89
Ground Rod Driver	⅝ and ¾	10	1UL97

BOSCH DEWALT SDS max

SDS Max® Hollow Bits

When used with a dust extractor, DeWalt's solid carbide hollow drill bits extract dust while drilling. The result is less dust, fast holes, and fast adhesive anchor installation. This minimizes the user's exposure to dust while drilling and adheres to OSHA Table 1 compliance. Connect these bits directly to DeWalt's Airlock System to form a secure, locking connection. Bosch Speed Clean™ bits connect to a vacuum system for time savings when compared with the conventional drill-blow-brush-blow method. Less dust and friction also result in faster drilling. Include rubber adapter and work with vacuum system to manage airborne silica. Optimized for adhesive anchoring.

Bit Dia.	Drilling Length	Overall Length	Item No.
DEWALT			
1⅛"	15¾"	23¾"	54FH83
BOSCH Speed Clean™			
1⅛"	20"	29"	48UR99
1⅜"	24"	35"	48UT01
¾"	12"	21"	48UR95
DEWALT			
¾"	15¾"	23¾"	54FH80
⅝"	15¾"	23¾"	54FH81

Bit Dia.	Drilling Length	Overall Length	Item No.
BOSCH Speed Clean™			
⅞"	14"	25"	48UR97
DEWALT			
⅞"	15¾"	23¾"	54FH82
BOSCH Speed Clean™			
1³⁄₁₆"	14"	25"	48UR96
DEWALT			
1"	15¾"	23¾"	54FH79
BOSCH Speed Clean™			
1"	17½"	27"	48UR98



No. 54FH79



No. 48UR98

Spline Drive Rotary Hammers

Side handle and depth rod offer precise control.

SPLINE BOSCH

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Wt.	Mfr. Model	Item No.
Spline Drive Rotary Hammers									
1⅝"	4⅛"	170-340	1700-2900	13.0	Vibration Control, 1-Hand Tool Change, Dial Speed Control	19¼"	14.7	11265EVS	**4GAE4**
1⅜"	4"	170-340	1500-2900	12.0	Innovative Service Modules, Integral clutch	19"	15.0	RH540S	**30RW20**
Accessories									
Spline Drive to SDS-Plus Adapter								HA1020	**2LDG9**



No. 4GAE4



No. 4LC66

SPLINE DEWALT BOSCH

Spline Drive 2-Cutter Hammer Drill Bits

Drill Bit Size	Overall Length	DEWALT Drilling Length	DEWALT Item No.	BOSCH Drilling Length	BOSCH Item No.
⅜"	10"	5"	**4LC66**	—	—
⅜"	13"	8"	**4LC67**	—	—
7/16"	10"	5"	**4LC68**	—	—
½"	10"	5"	**4LC69**	—	—
½"	13"	—	—	8"	**4XG02**
½"	16"	11"	**4LC70**	—	—
½"	21"	—	—	16"	**4XG03**
½"	22"	17"	**4LC71**	—	—
½"	27"	22"	**4LC72**	—	—
½"	29"	—	—	24"	**4XG04**
½"	36"	31"	**4LC73**	—	—
9/16"	10"	5"	**4LC74**	—	—
9/16"	21"	—	—	16"	**44H256**
9/16"	22"	17"	**1GEF9**	—	—
⅝"	10"	5"	**4LC75**	—	—
⅝"	13"	—	—	8"	**4XD82**
⅝"	16"	11"	**4LC76**	—	—
⅝"	21"	—	—	16"	**4XD83**
⅝"	22"	17"	**4LC77**	—	—
⅝"	27"	22"	**4LC78**	—	—
11/16"	10"	5"	**4LC79**	—	—
¾"	10"	5"	**4LC80**	—	—
¾"	16"	11"	**4LC81**	—	—
¾"	21"	—	—	16"	**4XD87**
¾"	22"	17"	**4LC82**	—	—
¾"	27"	22"	**4LC83**	—	—
⅞"	13"	—	—	8"	**4XD89**
⅞"	16"	11"	**4LC84**	—	—
⅞"	21"	—	—	16"	**4XD90**
⅞"	22"	17"	**4LC85**	—	—
1"	13"	—	—	8"	**4XD91**
1"	16"	11"	**4LC86**	—	—
1"	21"	—	—	16"	**53DM88**
1"	22"	17"	**4LC87**	—	—
1"	36"	31"	**4LC88**	—	—
1⅛"	16"	11"	**4LC90**	—	—
1⅛"	22"	17"	**4LC91**	—	—
1⅛"	36"	—	—	31"	**44H248**
1¼"	16"	11"	**4LC92**	—	—
1¼"	21"	—	—	16"	**4XD96**
1¼"	22"	17"	**4LC93**	—	—
1⅜"	16"	11"	**4LC94**	—	—
1⅜"	21"	—	—	16"	**44H251**
1⅜"	22"	17"	**4LC95**	—	—
1½"	21"	—	—	16"	**4XD98**



No. 4LD19



No. 45L235

SPLINE DEWALT Milwaukee BOSCH

Spline Drive Demolition Tools

Description	Blade Width (in.)	Overall Length (in.)	Item No.
DeWalt			
Bull Point	¾	18	**4LD20**
Bull Point	1	12	**4LD19**
Scaling Chisel	1½	12	**4LD22**
Scaling Chisel	2	12	**4LD23**
Scaling Chisel	3	12	**5MP58**
Cold Chisel	1	12	**4LD24**
Cold Chisel	1	18	**4LD25**
Slotting Tool	1½	12	**4LD21**
Ground Rod Driver	¾	11	**4LD27**
Bushing Tool	1¾	9 ½	**5MP59**
Milwaukee			
Bull Point	—	12	**45L227**
Bull Point	—	18	**45L228**
Scaling Chisel	1½	12	**45L232**
Scaling Chisel	2	12	**45L233**
Scaling Chisel	3	12	**45L234**
Scraping Chisel	2	12	**45L236**
Flat Chisel	1	12	**45L230**
Flat Chisel	1	18	**45L231**
Slotting Chisel	1½	12	**45L235**
Clay Spade	4½	16- ¾	**45L239**
Bushing Tool	1¾	9- ¾	**45L237**
Seam Tool	1	15	**45L238**
Tamper Shank	—	12	**45L240**
Bosch			
Bull Point	—	12	**1UL86**
Bull Point	—	18	**2LDJ9**
Scaling Chisel	2	12	**2LDK3**
Scaling Chisel	3	12	**2LDJ8**
Scraping Chisel	2	12	**2LDK1**
Flat Chisel	1	12	**1UL84**
Round Hex Spline	1	18	**1UL85**
Clay Spade	4½	16	**2LDK7**
⅝ and ¾" Ground Rod Driver	—	—	**2LDK8**



No. 4LD05

SPLINE BOSCH DEWALT

Spline Drive 4-Cutter Hammer Drill Bits

Drill Bit Size	Drilling Length	Overall Length	Item No.
Bosch			
⅝"	8"	13"	**4XD82**
	16"	21"	**4XD83**
	31"	36"	**53DM87**
¾"	8"	13"	**4XD85**
	16"	21"	**4XD87**
	31"	36"	**44H241**
⅞"	8"	13"	**4XD89**
	16"	21"	**4XD90**
	24"	29"	**44H243**
	31"	36"	**44H244**
1"	8"	13"	**4XD91**
	16"	21"	**53DM88**
	24"	29"	**44H245**
	31"	36"	**44H246**
1⅛"	24"	29"	**44H247**
	31"	36"	**44H248**
1¼"	16"	21"	**4XD96**
	24"	29"	**44H249**
	31"	36"	**44H250**
1⅜"	16"	21"	**44H251**
	24"	29"	**44H252**
1½"	16"	21"	**4XD98**
	24"	29"	**44H254**
	31"	36"	**44H255**

Drill Bit Size	Drilling Length	Overall Length	Item No.
DeWalt			
⅝"	5"	10"	**4LD01**
	11"	16"	**4LD02**
	17"	22"	**4LD03**
	22"	27"	**4LD04**
	31"	36"	**5MP49**
¾"	5"	10"	**4LD05**
	11"	16"	**4LD06**
	17"	22"	**4LD07**
	22"	27"	**4LD08**
	31"	36"	**5MP51**
⅞"	11"	16"	**4LD09**
	17"	22"	**4LD10**
1"	11"	16"	**4LD11**
	17"	22"	**4LD12**
	31"	36"	**5MP53**
1⅛"	11"	16"	**4LD13**
	17"	22"	**4LD14**
1¼"	11"	16"	**4LD15**
	17"	22"	**4LD16**
	31"	36"	**5MP54**
1⅜"	11"	16"	**4LD17**
	17"	22"	**5MP55**
1½"	17"	22"	**4LD18**
1¾"	17"	22"	**5MP56**
2"	17"	22"	**5MP57**



No. 4LD62



No. 2LDH2

SPLINE DEWALT BOSCH

Spline Drive Core Bits and Shanks

One-piece bits with integral shank save setup time. Centering bit not included, order separately.

Description	Item No.	
DeWalt Shanks and Centering Bits		
16" Spline Shank	**4LD67**	
Core Bit Pilot Drill	**4LD65**	*
Centering Bit	**3AB45**	*
Bosch Rubber Ring and Pin		
Core Bit Retention	**20PL28**	
Bosch Core Bit Extension		
Extension for Spline Core Bits, 8" Size	**20PL29**	
Extension for Spline Core Bits, 18" Size	**20PL30**	

Size (in.)	Item No.
DeWalt Core Bodies	
1½	**4LD58**
2	**4LD59**
2½	**4LD60**
3	**4LD61**
3½	**4LD62**
4	**4LD63**
5	**4LD64**

Required for use with standard core body.

	OVERALL LENGTH 12"		22"	
Bit Dia.	Brand	Item No.	Brand	Item No.
One Piece Core Bits				
1¾"	Bosch	**2LDH2**	Bosch	**20PL22**
1¾"	—	—	DeWalt	**3AB32**
2"	Bosch	**2LDH4**	Bosch	**2LDH5**
2¼"	—	—	Bosch	**20PL24**
2⅜"	—	—	Bosch	**20PL25**
3¼"	Bosch	**2LDH8**	—	—
3⅜"	—	—	Bosch	**2LDJ2**
4"	Bosch	**2LDJ3**	Bosch	**2LDJ4**
5"	Bosch	**2LDJ5**	Bosch	**2LDJ6**
6"	—	—	Bosch	**20PL27**
6"	—	—	DeWalt	**3AB44**











Hex Drive Demolition Hammers

Powerful tools crush and cut grooves in concrete and asphalt. Also capable of edging, digging gravel roads, compacting, cutting, stripping, and roughing.

Impact Energy	Blows per Minute	Amps	Features	Includes	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
¾" Hex Drive									
D-Handle									
19.9 ft.-lb.	975 to 1950	14.0	Service Reminder Light, Steel Bit Holder, Trigger Lock Switch	Side Handle, Carrying Case	27½"	27.8 lb.	Milwaukee	5337-21	**4YE52**
1⅛" Hex Drive									
D-Handle									
22.0 ft.-lb.	1300	15.0	Active Vibration Control, Service Reminder Shut-Off System, Multiposition Holder, and Lock-On Switch	Articulating Auxiliary Handle, Star Point Chisel, Grease Tube, Cleaning Rag, Carrying Case With Wheels	30"	38.0 lb.	Bosch	11335K	**2LDA9**
25.7 ft.-lb.	730 to 1450	14.0	AVT Anti-vibration Technology	Bull Point Bit, Hex Wrench, Wheeled Carrying Case	32½"	41.9 lb	Makita	HM1317CB	**14F121**
25.8 ft.-lb.	1460	15.0	Rubber Coated Handles; Soft Start; Active Vibration Control®	Bull Point Chisel, Wheeled Kit Box	30"	40.5 lb.	DeWalt	D25960K	**24T851**
T-Handle									
35.0 ft.-lb.	1000	15.0	Vibration Control, 115/120V AC/DC Capability	Star Point Bit, Narrow Flat Chisel, Moil Point Chisel, Deluxe Cart	30¾"	63.2 lb.	Bosch	BH2760VCB	**6TXC1**
43.0 ft.-lb.	1000	15.0	Vibration Control, 115/120V AC/DC Capability	(2) Star Point chisels, (2) Narrow Chisels, Deluxe Cart	30¾"	63.2 lb.	Bosch	BH2770VCD	**21TY30**
46.5 ft.-lb.	1100	15.0	AVT Anti-vibration Technology, Automatic Shutoff System	4 Bits, Hex Wrench, Premium Hammer Cart	32½"	71.3 lb	Makita	HM1810X3	**14F123**
62.0 ft.-lb.	960	15.0	SHOCKS Active Vibration Control, Electronic Soft Start	Hammer Truck, Flat and Pegged Foot Plate for Hammer Truck, Bull Point Chisel, 1" Cold Chisel, 3" Wide Chisel	30¾"	68.3 lb.	DeWalt	D25980KB	**1TDA5**
Accessories									
Dust Extractor - Demolition; Includes Dust Extractor Base, Mounting Bracket, Mounting Bracket Strap							DeWalt	DWH052	**19M478**
Dust Extractor Base, 3 Chisel Nozzles, 3 Tool Adapters							DeWalt	DWH053K	**19M479**

Description	Blade Width (in.)	Overall Length (in.)	Application	Brand	Item No.
¾" Hex Drive					
Asphalt Cutter	5	16½	Cuts Asphalt or Hard Packed Gravel (Not for Concrete)	Milwaukee	**45L273**
Bull Point	—	12	General Chipping Work	DeWalt	**4LD69**
	—	12	Starts Holes in Concrete Slabs, General Chipping and Breaking	Milwaukee	**45L260**
	—	18	General Chipping Work	DeWalt	**4LD70**
	—	18	Starts Holes in Concrete Slabs, General Chipping and Breaking	Milwaukee	**45L261**
	—	18	For Starting Holes in Concrete	Bosch	**2LDN1**
Bushing Tool	1¾	9 ½	Surface Preparation, Removing Excess Material	DeWalt	**5MP73**
	1¾	9¼	For Roughing Up Concrete Prior to a Surface Treatment	Bosch	**2LDN4**
	1¾	9¾	Removes Excess Concrete, Roughens Surface Before Surface Coating	Milwaukee	**45L272**
Clay Spade	4	4½	For Light Chipping and Chiseling of Tile, Mortar, Glazing Compounds	DeWalt	**1EC35**
	4½	16¾	Digging Clay, or Hard Packed Gravel (Not for Concrete)	Milwaukee	**45L268**
Cold Chisel	1	12	Removing Surface Material	DeWalt	**4LD72**
	1	18		DeWalt	**4LD73**
Flat Chisel	1	12	General Chipping and Breaking	Milwaukee	**45L262**
	1	12	For General Chiseling and Breaking	Bosch	**2LDN2**
	1	18	General Chipping and Breaking	Milwaukee	**45L263**
	1	18	For General Chiseling and Breaking	Bosch	**2LDN3**
Ground Rod Driver	—	—	For Driving ⅝ and ¾" Rods	Bosch	**2LDN6**
	—	9¾	Drives ⅝" and ¾" Ground Rods	Milwaukee	**45L271**
	—	10¾	Driving Ground Rods	DeWalt	**4LD77**
Scaling Chisel	3	12	Removing Surface Material	DeWalt	**4LD71**
	1½	12	Cleans Concrete, Scale, Rust, Cuts Troughs and Some Asphalt	Milwaukee	**45L264**
	2	12		Milwaukee	**45L267**
	3	12		Milwaukee	**45L266**
Scraping Chisel	2	12	Scrapes Surface	Milwaukee	**45L265**
Tamper Plate	5	—	Compacts Dirt, Tamps Asphalt	Milwaukee	**45L269**
Tamper Shank	—	12	Use to Mount Tamper Plate	Milwaukee	**45L270**
1⅛" Hex Drive					
Asphalt Chisel	5	17	Cuts Asphalt or Hard Packed Gravel (Not for Concrete)	DeWalt	**4LD82**
Asphalt Cutter	5	17½		Milwaukee	**45L277**
Bull Point	—	20	Chipping Work	DeWalt	**4LD79**
Chisel	3	20½	Cleans Concrete, Scale, Rust, Cuts Troughs and Some Asphalt	Milwaukee	**45L276**
	3	20½		Bosch	**2LDR5**
Clay Spade	5½	20	Digging Clay, or Hard Packed Gravel (Not for Concrete)	Milwaukee	**45L278**
	5½	23	Digs Clay, Gravel, Dirt (Not for Concrete)	DeWalt	**4LD84**
Cold Chisel	1⅛	20	Removing Surface Material	DeWalt	**4LD81**
Ground Rod Driver	—	15½	Drives ⅝" and ¾" Ground Rods	Milwaukee	**45L280**
	—	15½	Driving up to 1" Ground Rods	Bosch	**1UM13**
	1	17	Driving Ground Rods	DeWalt	**4LD83**
Moil Point	—	20	Starts Holes in Concrete Slabs, General Chipping and Breaking	Milwaukee	**45L274**
Narrow Chisel	—	20½	Chipping Work	Bosch	**1UL99**
	—	20½	General Chipping and Breaking	Milwaukee	**45L275**
	—	20½	Starts Holes in Concrete	Bosch	**1UM10**
Scaling Chisel	3	20	Chipping Work	DeWalt	**4LD80**
Spike And Pin Driver	—	14½	Drives anchoring Pins for Concrete Forms	Milwaukee	**45L279**
Tamper Plate	6	—	Compacts Dirt, Tamps Asphalt (Use with Tamper Shank)	Milwaukee	**45L281**
	8	—		Milwaukee	**45L282**
Tamper Shank	—	15½	For Use with Tamper Plate	Milwaukee	**45L283**
Tent Stake Driver	—	5½	Used to Drive 3½" OD and 2¾" ID Tent Stakes	Milwaukee	**45L284**

Hex Drive Demolition Tools











No. 11A327



No. 19TU04

Rebar Tools

MAX

Wire Size	Rebar Size	Ties per Charge	Ties per Coil	Tool Weight (lb.)	Mfr. Model	Item No.
MAX Tying Tools						
16 ga.	Up to #8 x #9	420	120 to 230	7.2	RB655	**11A326**
21 ga.	Up to #3 x #3	2000	170 to 210	4.9	RB218	**11A328**
21 ga.	Up to #5 x #6	2000	120	5.2	RB398	**11A327**
21 ga.	Up to #7 x #8	1800	120	5.4	RB518	**34G807**
Rebar Cutting Tool Kit						
Includes: Battery, Charger, Side Handle, Plastic Carrying Case	Up to #5	Approx. 180 on #5 Bar	—	16.8	PJRC160	**19TU04**

Material	For Use With	Mfr. Model	Item No.
MAX Rebar Tie Wire			
16 ga., 82 ft. Coil			
Black Steel	11A326	TW1525	**11A332**
Electro Galvanized Steel	11A326	TW1525EG	**11A333**
Poly Coated Steel	11A326	TW1525PC	**11A334**
21 ga., 312 ft. Coil			
Black Steel	19TU01	TW898	**11A329**
Electro Galvanized Steel	19TU01	TW898-EG	**11A330**
Poly Coated Steel	19TU01	TW898-PC	**11A331**



No. 3RDN8



No. 38D739

Diamond Coring Rigs

HUSQVARNA HANDHELD CORING RIGS

No. 2LEA5 compact core drill features 3-speed water-cooled gearbox and pistol grip design. Good for horizontal drilling and confined spaces. No. 6PEV2 has adjustable handle and electronic positioning for vertical, horizontal, or angle drilling. LED display indicates positioning in both horizontal and vertical planes. Use for both dry and wet drilling.

HUSQVARNA CORING RIGS W/BASE

Use for angle drilling. No. 3RDN8 is a single-speed unit with V-groove roller carriage for accurate alignment. Nos. 3RDN7 is a heavy-duty, 2-speed unit with wheels.

Husqvarna Milwaukee

MILWAUKEE® CORING RIG MOTORS

2-speed units feature either shear pin or clutch to protect gears and motor against overload. Include built-in water swivel and water control valve.

DIAMOND CORING BITS

Wet bits have 14" drilling length and are used to drill concrete, masonry, brick, granite, marble, and stone. Dry bits have 10" drilling length and barrel vents for cooling. Use for cutting brick and concrete block.

Core Bit Cap Concrete	Motor HP	Amps	No Load RPM	Overall Height	Brand	Mfr. Model	Item No.
Hand Held Wet/Dry							
Pistol Grip							
6"	2.3	15.0	730/1700/3600	16"	Husqvarna	DM230	**2LEA5**
D-Handle							
6"	1.5	13.0	730/1700/3600	25"	Husqvarna	DM220	**6PEV2**
Coring Rig							
With Base							
6"	2.3	15.0	540	33"	Husqvarna	DMS180	**3RDN8**
10"	2.9	19.3	390/890	40"	Husqvarna	DMS240	**3RDN7**
Coring Rig Motor							
With Shear Pin							
8"	2.5	15.0	375/750	—	Milwaukee	4090	**38D741**
10"	4.8	20.0	450/900	—	Milwaukee	4094	**38D742**
14"	4.8	20.0	300/600	—	Milwaukee	4079	**38D740**
With Clutch							
5"	2.5	15.0	500/1000	—	Milwaukee	4097-20	**38D744**
7"	4.8	20.0	600/1200	—	Milwaukee	4005	**38D739**
10"	4.8	20.0	450/900	—	Milwaukee	4096	**1Y044**
14"	4.8	20.0	300/600	—	Milwaukee	4004-20	**3F859**
With Clutch and Small Base							
10"	4.8	20.0	450/900	43½"	Milwaukee	4115-22	**38D746**
With Clutch and Large Base							
10"	4.8	20.0	450/900	43½"	Milwaukee	4120-22	**38D748**

Description	Item No.
Husqvarna Accessories	
Core Bit Extension, 6" Length, 1¼ Thread Size	**2RYL9**
Core Bit Extension, 12" Length, 1¼ Thread Size	**2RYN1**
Core Bit Extension, 6" Length, ⅝-11 Thread Size	**2RYN3**
Core Bit Extension, 12" Length, ⅝-11 Thread Size	**2RYN2**
Threaded Shaft Adapter, 1 ¼-7 Female To ⅝-11 Male	**2RYN4**
Threaded Shaft Adapter, ⅝-11 Female To 1 ¼-7 Male	**2RYN5**
Milwaukee Accessories	
Small Coring Rig Base	**38D745**
Large Coring Rig Base	**38D747**
Heavy-Duty Large Coring Rig Base	**38D750**
Vac-U-Rig Kit	**38D751**
Wet Core Bit Extension, 12" L, 1½ Size	**45KN54**
Wet Core Bit Extension, 12" L, 2 Size	**45KN55**
Wet Core Bit Extension, 12" L, 2½ Size	**45KN56**
Wet Core Bit Extension,12" L, 3 Size	**45KN57**
Wet Core Bit Extension, 12" L, 3½ Size	**45KN58**
Wet Core Bit Extension, 12" L, 4 Size	**45KN59**
Wet Core Bit Extension, 12" L, 4¼ Size	**45KN60**
Wet Core Bit Extension, 12" L, 4½ Size	**45KN61**
Wet Core Bit Extension, 12" L, 5 Size	**45KN62**
Core Bit Adapter, ⅝-11 Thread	**45KN92**
Core Bit Adapter, 1¼-7 Thread	**45KN93**
Core Bit Adapter, ⅝-11 Thread	**45KN94**
Core Bit Adapter, 1¼-7 Thread	**45KN95**
Core Bit Extension, 6" L, ⅝-11 Thread	**45KN96**
Core Bit Extension, 12" L, ⅝-11 Thread	**45KN97**
Core Bit Extension, 6" L, 1¼-7 Thread	**45KN98**
Core Bit Extension, 12" L, 1¼-7 Thread	**45KN99**

Bit Dia.	Drilling Depth	Item No.
Husqvarna Diamond Dry Core Bit		
1¼"-7 Thread Size		
1"	10"	**483U53**
⅝-11 Thread Size		
1½"	10"	**483U54**
1¼-7 Thread Size		
2"	10"	**483U55**
2½"	10"	**483U56**
3"	10"	**483U57**
3½"	10"	**483U58**
4"	10"	**483U59**
5"	10"	**483U60**
6"	10"	**483U61**
Husqvarna Diamond Wet Core Bit		
⅝-11 Thread Size		
1"	14"	**2LDX5**
1½"	14"	**2LDX6**
1¼-7 Thread Size		
2"	14"	**2LDX7**
2½"	14"	**2LDX8**
3"	14"	**2LDX9**
3½"	14"	**2LDY1**
4"	14"	**2LDY2**
4½"	14"	**2LDY3**

Bit Dia.	Drilling Depth	Item No.
5"	14"	**2LDY4**
5½"	14"	**2LDY5**
6"	14"	**2LDY6**
8"	14"	**2LDY7**
9"	14"	**2LDY8**
10"	14"	**2LDY9**
11"	14"	**2LDZ1**
12"	14"	**2LDZ2**
13"	14"	**2LDZ3**
14"	14"	**2LDZ4**
Milwaukee, Diamond Wet Core Bit, For Steel Reinforcement		
⅝-11 Thread Size		
¾"	15"	**45KN72**
⅞"	15"	**45KN73**
1"	15"	**45KN74**
1¼"	15"	**45KN75**
1½"	15"	**45KN76** *
1¼-7 Thread Size		
2"	15"	**45KN77** *
2½"	15"	**45KN78** *
2¾"	15"	**45KN79**
3"	15"	**45KN80** *
3½"	15"	**45KN81** *

Bit Dia.	Drilling Depth	Item No.
4"	15"	**45KN82** *
4½"	15"	**45KN84** *
5"	15"	**45KN85** *
6"	15"	**45KN86** *
6¼"	15"	**45KN87**
8"	15"	**45KN88**
10"	15"	**45KN89**
12"	15"	**45KN90**
14"	15"	**45KN91**
Milwaukee Diamond Dry Core Bit		
⅝-11 Thread Size		
1"	10"	**45KN32**
1½"	10"	**45KN33**
2"	10"	**45KN34**
2½"	10"	**45KN35**
3"	10"	**45KN36**
3½"	10"	**45KN37**
4"	10"	**45KN38**
4½"	10"	**45KN39**
5"	10"	**45KN40**
6"	10"	**45KN41**

Bit Dia.	Drilling Depth	Item No.
Milwaukee Diamond Wet Core Bit for Small Dia. Rebar		
1¼-7 Thread Size		
2"	15"	**45KN63** *
2½"	15"	**45KN64** *
3"	15"	**45KN65** *
4"	15"	**45KN67** *
4¼"	15"	**45KN68** *
4½"	15"	**45KN69** *
5"	15"	**45KN70** *
6"	15"	**45KN71** *
Milwaukee Pre-Stressed Diamond Wet Core Bit, for Cured Concrete		
⅝-11 Thread Size		
1"	15"	**45KN42**
⅝-11 Thread Size		
1½"	15"	**45KN43** *
1¼-7 Thread Size		
2"	15"	**45KN44** *
2½"	15"	**45KN45** *
3"	15"	**45KN46** *
3½"	15"	**45KN47** *
4"	15"	**45KN48** *
4½"	15"	**45KN49** *
5"	15"	**45KN50** *
6"	15"	**45KN51** *

** See Grainger.com® for Bit Application data.*

Tile Saws

Tile saws have a table that supports tile while it's being cut to size. They can be used to make wet or dry cuts. Wet cutting applies water to the blade and workpiece to reduce airborne dust and particles. Dry cutting is generally used for short cuts or intermittent cutting.

Blade Dia.	Max. Cutting Depth	Max. Cut Length	Arbor Size	Max. Blade Speed	Voltage	Current	Includes	Brand	Item No.
7"	1¼"	—	⅝"	3600 RPM	120VAC	4.8A	Manual, Blade, Rip Guide, Miter Guide	QEP	**48Z886**
7"	2"	—	—	—	120	7.4A	Water Pump, Rip Guide	MK Diamond Products	**55EC68**
10"	3"	20"	⅝"	3450	120	12.6A	Water Pump, Rip Guide	MK Diamond Products	**55EC69**
10"	3⅛"	28"	⅝"	4200 RPM	120VAC	15A	Removable Thermoplastic Water Reservoir, 10" Diamond Blade, Water Pump Assembly, 45° and 90° Rip Guides	DeWalt	**4YY94**
10"	3½"	24"	—	—	120	70A	Submersible Water Pump, Rip Guide, Protractor	MK Diamond Products	**55EC70**



No. 48Z886



No. 4YY94

Masonry Saws

Masonry saws use a diamond saw blade to wet or dry cut stone, brick, cinder block, and concrete. Wet cutting reduces airborne contaminants and keeps the blade cooler, extending blade life. Dry cutting requires a dust collection system to keep dust to a minimum.

Blade Dia.	Cutting Type	Max. Cutting Depth	Miter Angle Range	Arbor Size	Voltage	Current	Horsepower	Brand	Item No.
Handheld									
4⅜"	Dry	1⅜"	—	¾"	120VAC	15A	—	Makita	**45PC96**
4⅜"	Wet/Dry	3⅛"	—	20 mm	120V	10.8A	—	DeWalt	**6FKG8**
5"	Wet	1½"	—	⅞"	120VAC	12A	—	Flex North America	**53GK18**
14"	Dry	9¾"	—	1"	120VAC	15A	—	Makita	**14G991**
14"	Dry	9¾"	—	1"	120VAC	15A	—	Makita	**45PC97**
Benchtop									
14"	Wet	5"	45°	1"	115/230VAC	14A	1.5	Husqvarna	**45RM23**
14"	Wet	5"	45°	1"	115/230VAC	14A	2	Husqvarna	**45RM24**
14"	Wet	5"	45°	1"	115VAC	14A	1.5	Husqvarna	**45RM22**
14"	Wet	5"	45°	1"	230VAC	14A	3	Husqvarna	**45RM25**



Handheld No. 6FKG8

Benchtop No. 45RM23

Flooring Saws

- 120VAC, 7A
- 1 HP

Circular saw blades to make straight, rip, and angled cuts in wood and laminate flooring. The saw is mounted on rails that allow the blade to move smoothly to make straight, accurate cuts. A fence keeps the workpiece square and has adjustable stops to cut miters.



Blade Dia.	Cutting Type	Max. Cutting Depth	Miter Angle Range	Arbor Size	Item No.
4⅜"	Dry	¾"	0°; 22.5°; 45°	¾"	**19M485**

Gas-Powered Concrete Chain Saws

- Two-stroke, air-cooled
- Gas/Oil (50:1 (2%))

Gas-powered concrete chain saws are used outdoors or in well-ventilated areas to make cuts in hard, abrasive materials such as masonry, cured concrete, and rock. A diamond-grit embedded chain rotates around an oblong bar to abrade the workpiece. They are powered by fuel to provide sustained power for long periods of time.



Included Chain: Force 4
No. 45GG35

Bar Length	Horsepower	RPM	Engine Displacement	Item No.
Included Chain: Force 3 for Cutting Concrete				
12 in	5	11,500 +/- 500 RPM	77 cc	**45GG32**
12 in	6.4	9300 +/- 150 RPM	94 cc	**45GG28**
14 in	5	11,500 +/- 500 RPM	77 cc	**45GG33**
14 in	6.4	9300 +/- 150 RPM	94 cc	**45GG29**
16 in	6.4	9300 +/- 150 RPM	94 cc	**45GG30**
Included Chain: Force 4 for Cutting Concrete or Ductile Pipe				
16 in	6.4	9300 +/- 150 RPM	94 cc	**45GG36**
12 in	6.4	9300 +/- 150 RPM	94 cc	**45GG35**
Included Chain: PowerGrit for Cutting Ductile Pipe and Masonry				
16 in	6.4	9300 +/- 150 RPM	94 cc	**45GG37**
Included Chain: None				
12 in	6.4	9300 +/- 150 RPM	94 cc	**45GG27**
14 in	5	11,500 +/- 500 RPM	77 cc	**45GG31**
16 in	6.4	9300 +/- 150 RPM	94 cc	**45GG34**

Cordless Handheld Concrete Saws

- Wet/Dry

Cordless handheld concrete saws are battery-operated tools used to cut masonry, stone, and reinforced concrete. They can be used vertically, making them a good choice for demolition and cutting through walls and automobile and infrastructure wreckage.



Dewalt No. 453U31

Battery Series	Blade Dia.	Max. Cutting Depth	Arbor Size	Cordless Tool Kit Contents	Item No.
Milwaukee					
MX FUEL	14"	5"	1"	Battery Pack, Charger, Hex Key, Scrench, Contractor Bag	**55JL70**
DeWalt					
60V MAX FLEXVOLT	9"	3¼"	⅞"	(1) Bare Tool, (2) Batteries, (1) Charger	**453U30**
60V MAX FLEXVOLT™				(1) Bare Tool, (3) Batteries, (1) Charger	**337ZW7**
60V MAX FLEXVOLT				(1) Bare Tool	**453U31**
				(1) Bare Tool, (1) Battery	**578Z56**

Corded Handheld Concrete Saws

- 120VAC, 15A

Corded handheld concrete saws plug into an outlet to cut masonry, stone, and reinforced concrete. They can be used indoors and outdoors. They can also be used at any angle, making them a good choice for demolition and cutting through concrete walls.



Wet
No. 462R82

Blade Dia.	Max. Cutting Depth	Arbor Size	Brand	Item No.
Wet				
9"	16"	1"	Husqvarna	**462R82**
Wet/Dry				
7"	2"	⅞"	Skilsaw	**407M17**
14"	5"	1"	Husqvarna	**462R81**

VentMaster FIRE RESCUE SAWS
Husqvarna

Gas-Powered Rescue Saws

- Gasoline fuel
- 14" Blade Dia.
- Wet/Dry

Rescue saws are used by first responders to cut through infrastructure and automobile wreckage. Gas-powered saws create fumes and are used outdoors in well-ventilated areas.



Husqvarna No. 3EHD1

Max. Cutting Depth	Max. Blade Speed	Horsepower	Item No.
Ventmaster			
4 ¾ in	4,650 RPM	5	**8MWE8**
4 ¾ in	4,725 RPM	6.4	**6UET5**
4 ¾ in	5,100 RPM	7.8	**6UET6**
Husqvarna			
5 in	5,400 RPM	6.5	**3EHD1**

Husqvarna

Gas-Powered Cut & Break Saw

- Gasoline fuel
- 9" Blade Dia.
- Wet cutting

Cut and break saws have two parallel blades cut grooves and recesses in concrete. Workers can cut in stages to create slots in thick material or cut window openings or recesses in concrete or brick walls. Gas-powered saws create fumes and are used outdoors in well-ventilated areas.



Max. Cutting Depth	Max. Blade Speed	Horsepower	Item No.
16 in	4,875 RPM	5	**2ETP9**



Husqvarna No. 462R79



Makita No. 2KUX4

Husqvarna Makita

Gas-Powered Power Cutters

Gas-powered power cutters are handheld tools used to make vertical and horizontal cuts concrete and masonry. They have an internal-combustion engine to provide more consistent power and longer run times than battery-operated saws. Must be used outdoors in well-ventilated areas. Wet cutting applies water to the cut to reduce airborne particles and lubricate the cut.

Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Horsepower	Fuel Tank Capacity	Engine Displacement	Features	Item No.
Husqvarna								
9 in	Wet	16 in	4,875 RPM	5	24.0 oz	71 cc	Active Air Filtration(TM), DuraStarter(TM), EasyStart, SmartCarb(TM)	**2ETP9**
14 in	Wet/Dry	5 in	5,400 RPM	5	30.4 oz	74 cc	5% Fuel Savings, DEX Dust Suppression System, Digital Ignition System, Semi-Automatic Belt Tensioning, Smart Tension, X-Torq(R) Engine Technology	**462R79**
16 in	Wet/Dry	6 in	4,700 RPM	7.9	38.4 oz	119 cc	Active Air Filtration Efficiently Cleans Air, Double-Attachment Mountings to Allow Cutting From Both Directions, Easy-Adjust Blade Guard, Easy-Start, Replaceable Arbor Bushing, Smart Carb Technology	**54GY86**
Makita								
14 in	Dry	5 ⅛ in	9,850 RPM	4.4	23.6 oz	61 cc	—	**36HZ90**
14 in	Wet/Dry	4 13/16 in	9,100 RPM	4.1	37.0 oz	76 cc	Lower Fuel Consumption, Lower Noise, No Oil Mixing, Reduced Exhaust and Intake Carbon Build-Up, Smoother Idle, Three Ring Piston for Engine Durability	**19TG42**
14 in	Wet/Dry	4 13/16 in	9,350 RPM	5.1	37.0 oz	73 cc	Five Stage Foam Paper Nylon System With Advanced Directional Air Flow	**18C927**
14 in	Wet/Dry	4 13/16 in	9,350 RPM	5.1	37.0 oz	73 cc	Diamond Blade, Five Stage Filtration, Flush Mount Blade	**45L119**
16 in	Wet/Dry	5 ¾ in	9,350 RPM	5.6	37.0 oz	81 cc	50 To 1 Fuel Mixture, Five Stage Foam Paper Nylon System With Advanced Directional Air Flow	**2KUX4**



Corded Walk-Behind Concrete Saw

SKILSAW

- 7" Blade Dia.
- Wet/Dry Cutting

Corded walk-behind concrete saws are used indoors and outdoors to score or cut trenches and inlay and stress lines in concrete floors and slabs. They require access to an electrical power source and have longer runtimes than gas-powered saws. Wet cutting applies water to the cut line to reduce airborne particles and help lubricate the cut.

Max. Cutting Depth	Arbor Size	Voltage	Current	Horsepower	Features	Item No.
2 in	⅞ in	120V AC	15 A	48	Collapsible Folding Capability, Worm Drive Design, Wrench Stored On Tool	**462P51**



Asphalt, Concrete No. 52CM03



Demolition No. 55FD93

Husqvarna

Gas-Powered Walk-Behind Concrete Saws

Gas-powered walk-behind concrete saws are used outdoors to cut trenches and inlay and stress lines in concrete sidewalks, driveways, and slabs. They are slightly more powerful than corded walk-behind concrete saws and can be used where access to an electrical power source is limited or unavailable. Because they produce fumes, they must be used outdoors in well-ventilated areas.

Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Front Wheel Size	Start Type	Engine Brand	Horsepower	Item No.
4-Cycle Gasoline								
6 ½ in	Dry	1 ½ in	6,000 RPM	—	Pull-Cord (Recoil)	Robin EX13	5.5	**2ETR4**
14 in	Wet	4 ⅝ in	3,500 RPM	—	Pull-Cord (Recoil)	Robin EX27X	8.5	**54XM25**
20 in	Wet	7 ⅝ in	2,110 RPM	—	Electric	Honda	20.8	**2LDU2**
20 in	Wet	7 ⅝ in	2,620 RPM	—	Pull-Cord (Recoil)	Honda	11	**52CM03**
20 in	Wet	7 ⅝ in	2,650 RPM	—	Electric	Kohler	37	**49EK28**
20 in	Wet	7 ⅝ in	2,800 RPM	—	Pull-Cord (Recoil)	Honda	11	**2LDU1**
24 in	Wet	9 ⅝ in	2,110 RPM	—	Electric	Honda	20.8	**52CM04**
26 in	Wet	10 ½ in	1,860 RPM	—	Electric	Kohler	37	**49EK29**
Diesel								
30 in	Wet	12 ½ in	1,120 RPM	8 in x 3 in	Electric	Deutz	7.5	**55FD90**
30 in	Wet	12 ½ in	1,120 RPM	6 in x 2 in	Electric	Yanmar	7.5	**55FD94**
36 in	Wet	15 in	1,008 RPM	8 in x 3 in	Electric	Deutz	7.5	**55FD91**
36 in	Wet	15 in	1,008 RPM	6 in x 2 in	Electric	Yanmar	7.5	**55FD93**

BOSCH Makita

Concrete Grinders

Note: For Diamond Cup Grinding Wheels and Tuck Point Blades, go to Grainger.com®.



Bosch
No. 36WH94



Makita
No. 46AD54

Description	No Load RPM	Amps @ 120V	Includes	Mfr. Model	Item No.
BOSCH					
" Tuck-Point Grinder	11,000 RPM	8.5	1 ½ in Vacuum Adapter, Flange Adapter, Wrench And Side Handle	1775E	**4LE45**
5 in Concrete Surfacing Grinder	9,300 RPM	12.5	Flange Kit, Spanner Wrench, 5 in Diamond Cup Wheel, Vacuum Adapter, Auxiliary Handle, Carrying Case	CSG15	**36WH94**
MAKITA					
5 in Concrete Planer, 7 ⅛ in Tool Length	10,000 RPM	10	Case, Diamond Wheel, Dust Bag, Wrench	PC5000C	**14F174**
5 in Concrete Planer, 18 13⁄16 in Tool Length	10,000 RPM	10	Case, Diamond Wheel, Dust Bag, Wrench	PC5001C	**14F175**
5" Angle Grinder, 11 ⅞ in Tool Length	11,000 RPM	10	Dual Sandwich Diamond Tuck Point Blade, Extracting Tuck Point Guard, Inner Flange, Lock Nut, Lock Nut Wrench, Side Handle	GA5040X1	**46AD54**

Concrete Floor Grinders and Polishers

Husqvarna

FLOOR GRINDERS

PG 280 and PG 400

Provide efficient grinding due to high rpm levels, dust guard, and vacuum port. Include Redi Lock™.

PG 530

Planetary design with variable speed, forward, and reverse for high-productivity removal or polishing.

PG 680 and PG 820

Dual-drive Technology™ allows for independent control of speed and direction on both planetary and satellite discs. Triple-headed grinders provide more downward pressure and power. Gear-driven planetary head and premium-quality belt. PG 820 RC is a remoter control machine for increased production rates.

DUST EXTRACTORS AND COLLECTORS

Extractors are for large-scale projects that demand substantial dust extraction. Tested and certified HEPA class H13 filters; required for silica dust are standard.

Disc Dia. (in.)	Max. RPM	HP	Voltage	Mfr. Model	Item No.	
Floor Grinders						
11 in	1160	2 hp	115	PG280	**18G402**	
11 in	1720	3 hp	220-240	PG 280 SF	**18G401**	
9.5 in	200-710	5 hp	220-290	PG 530	**18G389**	
10.5 in	600-1200	17 hp	380-480	PG 680	**18G382**	
10.5 in	250-1100	17 hp	380-480	PG 820	**18G371**	
10.5 in	250-1100	17 hp	380-480	PG 820 RC	**45RM33**	*

Max. Flow (cfm)	Fabric Area	Min. Air Flow (cfm)	Motor HP	Motor Voltage	Mfr. Model	Item No.
Dust Extractor						
285	27 sq ft	285	3.2 hp	120	S36120V	**54FH70**
354	54 sq ft	354	10.1 hp	230	T7500	**54FH64**
354	54 sq ft	354	11.5 hp	460	T8600	**54FH62**

Amps AC	Filter Bag	Max. Flow (cfm)	Phase	Voltage	Mfr. Model	Item No.
Dust Collector						
16	HEPA	406	3	380/440	DC 6000	**33UD63**

No. of Speeds	Air Flow (cfm)	MERV	Filter Rating (microns)	Duct H (in.)	Duct W (in.)	Mfr. Model	Item No.
Air Scrubbers							
2	600	5	0.3	8 in	8 in	A600	**54FH74**
2	600/1200	5	0.3	10 in	10 in	A2000	**54FH73**

Peak HP	Vacuum Capacity	Air Flow	Amps	Wet Capacity	Dry Capacity	Mfr. Model	Item No.
Slurry Vacuums							
2	15 gal	118 cfm	10	70 gal.	15 gal.	W70P	**54FH67**

**** Item No. 45RM33 is remote control concrete grinder.***

AIR SCRUBBERS

Air scrubbers can be used to supplement other dust suppression equipment. Can be used as negative air machine. Combination pre-filter and HEPA filter to ensure 99.97% efficiency at 0.3 microns.

SLURRY VACUUMS

Handles tough jobs with liquids such as concrete slurry, oils, and machining coolants. Integral strainer screens gravel to protect pump. For use with flat saws, core drills, power cutters, masonry hand tile saws.



Floor Grinder
No. 45RM33



Dust Collector
No. 33UD63



Air Scrubber
No. 54FH73



No. 54FH67

Demolition Diamond Saw Blades

Husqvarna

Demolition blades are built to cut aggressively through mixed masonry or masonry with embedded rebar, such as brick or cinderblock walls.

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Arbor Shape	For Use On Concrete Type	Max. Blade Speed	Item No.
Segmented								
Grade: Good								
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Masonry	Round	Reinforced	5,460 RPM	**2LDU8**
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Reinforced	5,460 RPM	**53DT43**
16 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete	Round	Reinforced	4,725 RPM	**53DT50**
Grade: Better								
14 in	1 in	Wet/Dry	Masonry Saws, Small Flat Saws	Concrete, Masonry, Stone	Round	Brick, Concrete, Various Stone Materials	5,460 RPM	**53DT82**
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	5,460 RPM	**53DT81**
16 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Masonry, Stone	Round	Hard Aggregate	4,725 RPM	**2LDV7**
18 in	1 in	Wet	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	3,395 RPM	**53DT44**
18 in	1 in	Wet	Large Flat Saws	Concrete, Granite	Round	Hard Aggregate, Medium Aggregate, Reinforced	3,395 RPM	**18F676**
20 in	1 in	Wet	Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	3,055 RPM	**53DT45**



Segmented
No. 2LDU8

Diamond Saw Blades

Diamond saw blades have diamond grit on the cutting edge to cut through concrete, tile, and brittle metal, such as cast iron, in construction and road work applications. Wet-cutting blades require a water source used to keep the blade cool, extending blade life and reducing airborne dust and contaminants.

Continuous rim diamond blades are used on tile, decorative stone, and brittle and glazed materials that chip easily.

Segmented rim diamond blades have slots cut into the rim of the blade to help dissipate heat and carry away dust and water slurry when cutting materials.

Turbo Rim diamond blades have a continuous rim with narrow bands to help dissipate heat, carry material away from the cut, and cut through material faster than segmented blades.



Continuous Rim | **Segmented Rim** | **Turbo Rim**

DEWALT
Husqvarna



Continuous
No. 4DV77

General Purpose Diamond Saw Blades

These general purpose diamond-grit saw blades cut masonry and other materials and are used for light-duty intermittent use and general maintenance. Round arbor shape.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Continuous								
Good	10"	5/8"	Wet	Chop Saws	—	6000 RPM	DeWalt	**4DV76**
Better	7"	5/8"	Wet/Dry	Tile Saws	Tile	8730 RPM	Husqvarna	**55TC06**
Best	10"	5/8"	Wet	Tile Saws	—	6000 RPM	DeWalt	**4DV77**
Segmented								
Good	4"	5/8"	Dry	Angle Grinders, Masonry Saws	—	15,200 RPM	DeWalt	**4KZ51**
Better	4½"	5/8", 7/8"	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	13,300 RPM	Husqvarna	**53DT47**
	6"	5/8", 7/8"	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	10,185 RPM	Husqvarna	**53DT49**

Husqvarna
DEWALT



Turbo
No. 3CB38

Concrete and Asphalt-Cutting Diamond Saw Blades

Concrete and asphalt-cutting diamond blades cut fresh or cured concrete and other hard and abrasive materials. Round arbor shape.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	12"	1"	Wet/Dry	Power Cutters, Small Flat Saws	Masonry	6300 RPM	Husqvarna	**2LDU7**
	24"	1"	Wet	Large Flat Saws, Small Flat Saws	Concrete	2550 RPM	Husqvarna	**53DT54**
Better	14"	1"	Wet/Dry	Masonry Saws	Brick	5460 RPM	Husqvarna	**54JF19**
	18"	1"	Wet	Large Flat Saws, Small Flat Saws	Concrete, Granite	3395 RPM	Husqvarna	**2LDW8**
	20"	1"	Wet	Large Flat Saws, Small Flat Saws	Concrete, Granite	3055 RPM	Husqvarna	**2LDX3**
Turbo								
Better	4½"	7/8"	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**4KZ42**
	7"	5/8"	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	8700 RPM	DeWalt	**4KZ43**
Best	4½"	7/8"	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**3CB38**
Turbo/Segmented								
Best	4½"	5/8"	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**423K25**

Husqvarna
DEWALT
BOSCH
SKIL®



Segmented
No. 53DT73

Masonry-Cutting Diamond Saw Blades

These masonry-cutting diamond saw blades cut through abrasive materials such as brick, cinderblock, and other materials that are not as hard as cured concrete. Round Arbor Shape

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	4½"	5/8", 7/8"	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Brick, Stone	13,300 RPM	Husqvarna	**53DT63**
	14"	1"	Wet/Dry	Masonry Saws	Block, Brick, Concrete	5460 RPM	Husqvarna	**53DT73**
	16"	1"	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	4725 RPM	Husqvarna	**18F686**
	4½"	5/8"	Dry	Angle Grinders	—	13,300 RPM	DeWalt	**40K113**
Better	14"	1"	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Masonry, Stone	5460 RPM	Husqvarna	**2LDV6**
	20"	1"	Wet/Dry	Masonry Saws	Stone	3055 RPM	Husqvarna	**53DT46**
Turbo								
Better	6"	5/8", 7/8"	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone	10,185 RPM	Husqvarna	**55TC03**
Best	4½"	7/8"	Wet/Dry	Angle Grinders	Brick, Concrete, Stone	13,200 RPM	Bosch	**44M016**
	5"	7/8"	Wet/Dry	Angle Grinders	Brick, Concrete, Stone	13,300 RPM	Bosch	**44M027**

Milwaukee
DEWALT
Husqvarna
BOSCH



Continuous
No. 1GED6

Tile-Cutting Diamond Saw Blades

- Round Arbor Shape

Tile-cutting diamond saw blades cut brittle masonry materials where chipping is a concern, such as glazed tile.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Continuous								
Good	3"	3/8"	Wet/Dry	Angle Grinders, Masonry Saws	Ceramic, Porcelain, Tile	20,000 RPM	Milwaukee	**492T91**
	4½"	5/8", 7/8"	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Ceramic, Granite, Marble	13,300 RPM	Husqvarna	**18G356**
Better	10"	5/8"	Wet	Tile Saws	Ceramic, Slate	6150 RPM	Bosch	**53DM20**
	10"	5/8", 7/8"	Wet	Angle Grinders, Circular Saws, Tile Saws	Tile	6115 RPM	Husqvarna	**53DT62**
Best	10"	5/8"	Wet	Stone Saws, Tile Saws	—	6000 RPM	DeWalt	**1GED6**
Segmented								
Good	10"	5/8", 7/8"	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Brick, Stone	6115 RPM	Husqvarna	**53DT42**
	14"	1"	Dry	Chop Saws	Ferrous Metals	4300 RPM	DeWalt	**6TMT8**
Better	7"	5/8", 7/8"	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	8730 RPM	Husqvarna	**53DT48**
	14"	1"	Wet/Dry	Power Cutters, Small Flat Saws	Iron	5460 RPM	Husqvarna	**53DT76**
Best	14"	1"	Dry	Masonry Saws	—	5400 RPM	DeWalt	**53DR73**
Turbo								
Better	7"	5/8", 7/8"	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone	8730 RPM	Husqvarna	**55TC04**



Segmented
No. 2LDV4

Fire and Rescue Diamond Saw Blades

Husqvarna BOSCH

These blades are commonly used by firefighters and first responders to cut through vehicle wreckage. They're built to make dry cuts through metal, masonry, and vehicle wreckage when a water source is not available.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	12"	1"	Wet/Dry	Power Cutters	Concrete, Iron, Metal	6300 RPM	Husqvarna	**5EAW8**
Better	6½"	—	Dry	Soft Cut Saws	Concrete, Granite	6048 RPM	Husqvarna	**55TC15**
	14"	1"	Wet/Dry	Power Cutters	Block, Brick, Concrete, Iron, Metal, Rebar, Stone	5460 RPM	Husqvarna	**2LDV4**
Turbo								
Best	4"	5/8"	Wet/Dry	Angle Grinders	Concrete, Masonry, Stone	14,500 RPM	Bosch	**44M010**

DIABLO® Husqvarna DEWALT

Metal-Cutting Diamond Saw Blades



Segmented
No. 4DV74



Segmented
No. 422W50

- Round Arbor Shape

Metal-cutting diamond saw blades have a diamond-embedded rim that provides a sharp, hard edge for cutting hard metal alloys. Continuous rim blades are used for tile, decorative stone, and brittle and glazed materials that chip easily. Segmented rims have slots cut into the rim of the blade to help dissipate heat and carry away dust and water slurry when cutting brick, concrete, and abrasive materials.

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	For Use On Concrete Type	Max. Blade Speed	Brand	Item No.
Continuous								
Grade: Better								
4 ½ in	⅞"	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	13,280 RPM	Diablo	**415J81**
5 in	⅞"	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	12,200 RPM	Diablo	**415J82**
Segmented								
Grade: Good								
14 in	1"	Dry	Chop Saws	Brick	—	5400 RPM	DeWalt	**4DV74**
14 in	1"	Wet	Power Cutters, Small Flat Saws	Concrete, Masonry, Stone	Construction Blocks	5460 RPM	Husqvarna	**18F685**
Grade: Better								
4 in	⅝", ⅞"	Wet/Dry	Angle Grinders, Tile Saws	Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	15,000 RPM	Husqvarna	**53DT71**
4 ½ in	⅝", ⅞"	Wet/Dry	Angle Grinders, Tile Saws	Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	13,300 RPM	Husqvarna	**53DT72**
6 in	⅝", ⅞"	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	10,150 RPM	Diablo	**415J83**
7 in	⅝", ⅞"	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	8450 RPM	Diablo	**422W50**
14 in	1"	Wet/Dry	Power Cutters	Concrete, Iron, Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	5460 RPM	Husqvarna	**5EAW9**

BOSCH
Husqvarna

Tuckpointing Blades



Segmented
No. 44M050

- Round Arbor Shape

Tuckpointing diamond saw blades have two parallel blades to remove weathered and damaged mortar. They are used in an angle grinder or circular saw. They cut channels ⅝" to ¾" deep. Wet cutting directs water to the cut to lubricates the cut and reduce airborne contaminants.

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	For Use On Concrete Type	Max. Blade Speed	Brand	Item No.
Segmented								
Grade: Good								
4½"	⅞"	Dry	Angle Grinders	Mortar	Mortar Removal	13,300 RPM	Bosch	**44M049**
5"	⅞"	Dry	Angle Grinders	Mortar	Mortar Removal	12,250 RPM	Bosch	**44M052**
Grade: Better								
4"	⅝", ⅞"	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	1550 RPM	Husqvarna	**55TC11**
4½"	⅝", ⅞"	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	1350 RPM	Husqvarna	**55TC12**
4½"	⅞"	Dry	Angle Grinders	Mortar	—	13,300 RPM	Bosch	**499K90**
5"	⅝", ⅞"	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	12,000 RPM	Husqvarna	**53DT75**
5"	⅞"	Dry	Circular Saws	Mortar	—	12,250 RPM	Bosch	**499K91**
7"	⅝", ⅞"	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	8750 RPM	Husqvarna	**55TC13**
Grade: Best								
4"	⅞"	Dry	Angle Grinders	Mortar	Mortar Removal	14,600 RPM	Bosch	**44M047**
4½"	⅞"	Dry	Angle Grinders	Mortar	Mortar Removal	13,300 RPM	Bosch	**44M048**
5"	⅞"	Dry	Angle Grinders	Mortar	Mortar Removal	12,000 RPM	Bosch	**44M050**

Milwaukee® DEWALT metabo



Paddle Switch
No. 32NL61



Trigger Switch
No. 6MRR7

4½" to 6" Sander/Grinders

- ⅝-11 spindle
- For additional sanders and grinders, go to Grainger.com®

No Load RPM	Nominal Amps	Lock-on / Lock-off	Tool Length	Brand	Mfr. Model	Item No.
4½" Wheel Dia.						
Paddle Switch Type						
10,000	7	Yes / No	11 51/64"	Milwaukee	6140-30	**2VGG3**
11,000	11	Yes / Yes	11 13/16"	DeWalt	DWE402G	**32NL64**
	11	Yes / Yes		DeWalt	DWE402K	**32NL63**
	11	Yes / Yes		DeWalt	DWE402	**32NL61**
	11	No / Yes		DeWalt	DWE402N	**32NL62**
	11	No / No	12 3/4"	DeWalt	DWE4222N	**46TY04**
12,000	7	Yes / No	10 5/8"	DeWalt	DWE4012	**30RV81**
	9	Yes / Yes	10 3/4"	DeWalt	DWE4120	**19TF49**
	9	No / No		DeWalt	DWE4120N	**19TF50**
	11	Yes / No	13 13/16"	Milwaukee	6141-30	**53DT13**
	11	No / No		Milwaukee	6141-31	**53DT14**
	11	Yes / No		Milwaukee	6142-30	**53DT15**
	11	No / No		Milwaukee	6142-31	**53DT16**
Slide Switch Type						
11,000	7	Yes / No	10 1/4"	Milwaukee	6130-33	**4FTH2**
	11	Yes / No	12 3/8"	DeWalt	DWE4214	**32NL65**
	11	Yes / No	11 3/64"	Milwaukee	6146-33	**6MRR5**
12,000	7	Yes / Yes	10 39/64"	DeWalt	DWE4011	**34D754**
Trigger Switch Type						
11,000	11	Yes / No	15 19/32"	Milwaukee	6121-30	**6MRR6**
	11	No / Yes		Milwaukee	6121-31	**6MRR7**
4½" or 5" Wheel Dia.						
Paddle Switch Type						
10,000	8	No / No	13 45/64"	Metabo	WEPF9-125	**33RN32**
	15	No / Yes	19"	Metabo	WEPBA 17-125 Quick RT DS	**419J87**
11,000	10	No / Yes	15 23/64"	Metabo	WP 1200-125 RT	**419J91**
	13	Yes / Yes	13"	DeWalt	DWE43114	**54DD28**
	13	No / Yes		DeWalt	DWE43114N	**54DD29**
	14	No / Yes	12 13/32"	Metabo	WEP 15-125 QUICK	**36XM15**
Slide Switch Type						
2800 to 11,000	14	Yes / No	12 13/32"	Metabo	WEV 15-125 QUICK	**36XM14**
2,800 to 9,600	14	Yes / No	12 1/2"	Metabo	WEV 15-125 HT	**36XM17**
11,000	13	Yes / Yes	13"	DeWalt	DWE43131	**54DD30**
Trigger Switch Type						
3500 to 11000	13	Yes / No	15 23/64"	Metabo	WEV 1500-125 RT	**419J90**
10,000	9	Yes / No	12 1/2"	Metabo	WEF 9-125	**29GA31**
11,000	13	Yes / Yes	16 1/2"	DeWalt	DWE43115	**54DD32**
	13	No / Yes		DeWalt	DWE43115N	**54DD33**
10,500	13	No / Yes	14"	DeWalt	DWE43214N	**54JJ49**
	13	Yes / Yes		DeWalt	DWE43214	**54JJ50**
11,000	13	Yes / No	12 13/64"	Milwaukee	6117-30	**6MRR9**
	13	No / Yes		Milwaukee	6117-31	**6MRT0**
Slide Switch Type						
2200 to 10,500	13	Yes / Yes	13"	DeWalt	DWE43231VS	**54JJ48**
2800 to 11,000	13	Yes / No	12 13/64"	Milwaukee	6117-33D	**6MRT3**
10,500	13	No / Yes	13"	DeWalt	DWE46253	**54JJ41**
11,000	13	Yes / No	12 13/64"	Milwaukee	6117-33	**6MRT1**
Trigger Switch Type						
9000	13	Yes / No	15 19/32"	Milwaukee	6124-30	**6MRT7**
	13	No / Yes		Milwaukee	Angle Grinders	**6MRT8**
10,000	12	Yes / No	14 19/64"	DeWalt	DW831	**5MP76**
10,500	6	No / No	12 13/32"	DeWalt	DWE4277-QS	**437K01**
11,000	11	No / Yes	15 19/32"	Milwaukee	6121-31A	**6MRR8**
5" or 6" Wheel Dia.						
Trigger Switch Type						
9000	13	Yes / Yes	16 1/2"	DeWalt	DWE43116	**54DD39**
	13	Yes / Yes		DeWalt	DWE43066	**54DD34**
	13	No / Yes		DeWalt	DWE43066N	**54DD35**
	13	No / Yes	19"	DeWalt	DWE43265N	**54JJ44**
6" Wheel Dia.						
Paddle Switch Type						
9000	13	Yes / No	12 13/64"	Milwaukee	6161-30	**6MRT4**
	13	No / Yes		Milwaukee	6161-31	**6MRT5**
	13	No / Yes	13"	DeWalt	DWE46144N	**54DD36**
	13	Yes / Yes		DeWalt	DWE43144	**54DD26**
	13	No / Yes		DeWalt	DWE43144N	**54DD27**
	13	No / Yes	14"	DeWalt	DWE43244N	**54JJ45**
9600	14	No / Yes	18 1/2"	Metabo	WEPBF 15-150 Quick	**419J93**
	15	No / Yes	12 13/32"	Metabo	WEP 17-150 QUICK	**36XM19**
	15	No / Yes	19"	Metabo	WEPBA 17-150 Quick RT DS	**419J86**
	15	No / Yes	16"	Metabo	WEPBA 17-150 Quick DS	**419J88**
	15	No / Yes	18 1/8"	Metabo	WEP 17-150 Quick RT	**419J89**
	—	No / Yes	12 13/32"	Metabo	WEP 15-150 QUICK	**36XM16**
Slide Switch Type						
1800 to 8000	13	Yes / Yes	13"	DeWalt	DWE43240INOX	**54JJ47**
9000	13	Yes / No	12 13/64"	Milwaukee	6161-33	**6MRT6**
	13	Yes / Yes	13"	DeWalt	DWE43140	**54DD31**
	13	Yes / Yes		DeWalt	DWE46103	**54DD38**
	13	No / Yes		DeWalt	DWE46202	**54JJ42**
9600	14	Yes / No	12 13/32"	Metabo	WE 15-150 QUICK	**36XM13**
Trigger Switch Type						
9000	13	No / Yes	13"	DeWalt	DWE46166N	**54DD37**

metabo DEWALT Milwaukee

7" to 9" Sander/Grinders

- ⅝-11 spindle


No. 36H080


No. 1EZ31


No. 2VGG8

No Load RPM	Nominal Amps	Lock-on / Lock-off	Features	Tool Length	Includes	Brand	Mfr. Model	Item No.
7" Wheel Dia.								
Paddle Switch Type								
8200	15	No / Yes	Tool Free Quick Change System, S-Automatic Safety Clutch, Adjustable Guard, Paddle Switch, Fast Brake, Auto-Balancer, Electronic Power Interruption and Overload Protection Metabo Long Life Motor, Ergonomic Rat Tail, Anti-Vibration Side Handle and Drop Secure Tethering Point	19"	—	Metabo	WEPB 19-180 RT DS	**419J85**
Trigger Switch Type								
6600	15	Yes / Yes	High Efficiency, Increased Torque Through Optimum Heat Dissipation, Die Cast Aluminum Gear Housing, Sturdy, Durable Motor, Safety Lock Switch, Winding Protection Grid, Auto-Stop Carbon Brushes, Handle for Vibration Damping	18"	Side Handle, Type 27 Wheel Guard, Loop Handle, Handle Bolt, Convertible Shroud, Vacuum Adaptor	Metabo	7" SURFACE PREP KIT	**38ZM45**
8000	13	Yes / No	High Power-to-Weight Ratio, Keyless Adjustable Guard, Rear Handle, External Brush Caps	16"	Type 27 Wheel, Wrench, Guard, Side Handle, Backing Flange andClamp Nut for ⅞" Nonthreaded Wheels	DeWalt	DW840	**4PC47**
8500	13	No / Yes	Brushless Motor, Kickback Brake™	19"	Grinder; Side Handle; Hex Key; Inner and outer flange; 7 in. type 27 guard; Pipeline Cover	DeWalt	DWE43840CN	**54JJ43**
8500	15	Yes / Yes	Anti-Vibration, Overload Protection, Constant Speed Control, Electronic Clutch, Power Loss Reset, Dust Ejection System (Tm)	21 3/32"	7"Guard	DeWalt	DWE4597	**34D751**
8500	15	Yes / Yes	Low Profile Gear Case, Automatic Turn-Off Brushes, Brush Change Door	19 9/64"	7" Guard, 2-Position Side Handle	DeWalt	DWE4517	**34D746**
8500	15	No / Yes	Anti-Vibration, Overload Protection, Constant Speed Control, Electronic Clutch, Power Loss Reset, Dust Ejection System (Tm)	21 3/32"	7" Guard, 3-Position Anti-vibe Side Handle	DeWalt	DWE4597N	**34D752**
8500	15	Yes / Yes	Dust Ejection System (Tm), Low Profile Gear Case, Automatic Turn-Off Brushes	20 51/64"	7" Guard, 3-Position Side Handle	DeWalt	DWE4557	**34D748**
8500	15	Yes / Yes	3-Postion Side Handle, Rotating Main Handle, Auto-Stop Carbon Brushes	18"	Type 27 Guard, Side Handle	Metabo	W24-180 MVT	**34TE33**
8500	15	Yes / Yes	Anti-Vibration, Guard with 7 Stops, Auto-stop Carbon Brushes, Pivoting Rear Handle	19½"	Type 27 Guard, Side Handle	Metabo	W 2000 7"	**36H080**
7" or 9" Wheel Dia.								
Trigger Switch Type								
5000	13	Yes / No	Spiral Bevel Gears	17"	Side Handle, Flange, and Nylon Washer	Milwaukee	6072	**4Z819**
6000	15	Yes / No	Tool-Free Guard Change, Epoxy Coated Field and Armature, Low Profile Gear Case, Automatic Turn-Off Brushes	20 45/64"	5-PositionSide Handle, Rotating Rear Handle	DeWalt	D28499X	**1EZ31**
6000	15	Yes / No	Tool-Free Guard Change, Advanced Aireflow System, High Capacity Motor, Debris Baffles, External Brush Doors	21"	7 and 9" Type 27 Guard, Grinding Wheel, 3-Position Side Handle, Backing Flange, Flange Nut, Spanner Wrench	Milwaukee	6088-30	**2VGG8**
6000	15	No / Yes	Tool-Free Guard Change, Debris Baffles, External Brush Doors	21"	Side Handle, 7 In And 9 In Type 27 Guard, Spanner Wrench, Flanges	Milwaukee	6088-31	**38D249**
6000	—	Yes / No	Spiral Bevel Gears	17½"	Side Handle, Flange, and Nylon Washer	Milwaukee	6066-6	**6Z354**
7000	15	No / Yes	Tool-Free Guard Change, 9-Position Rotating Handle, Debris Baffles, External Brush Doors	21"	Side Handle, 7 In And 9 In Type 27 Guard, Spanner Wrench, Flanges	Milwaukee	6089-31	**38D250**
9" Wheel Dia.								
Trigger Switch Type								
6500	15	Yes / Yes	Low Profile Gear Case, Automatic Turn-Off Brushes	19 9/64"	9" Guard, 2-Position Side Handle	DeWalt	DWE4519	**34D747**
6500	15	No / Yes	Dust Ejection System(Tm), Low Profile Gear Case, Automatic Turn-Off Brushes	20 51/64"	9" Guard, 3-Position Side Handle	DeWalt	DWE4559N	**34D749**
6600	15	Yes / Yes	3-Postion Side Handle, Rotating Main Handle, Auto-Stop Carbon Brushes, Winding Protection Grid	18"	Type 27 Guard, Side Handle	Metabo	W24-230 MVT	**34TE34**

Grinding Safety Guards

Milwaukee DEWALT


No. 2Z740

For Use With	Brand	Mfr. Model	Item No.
Grinder Dust Shroud			
Universal Grinders	Milwaukee	49-40-6110	**404M83**
Grinder Safety Guard			
Milwaukee Magnum 4½" Grinders	Milwaukee	49-12-0365	**3LG11**
Mfr. No. 6080-20, 6081-20, 6082-20, 6086-20, 6088-20, 6089-20	Milwaukee	49-12-0010	**1WG71**
Mfr. No. 6072, 6078, 6065-6, 6081-20, 6066-6, 6096, 6067-6, 6068-6, and 6098	Milwaukee	49-12-0355	**2Z740**
Mfr. No. D28494S, D28474W, D28497, D28499X, D28494N and D28493N	DeWalt	D284931	**3LA59**
Mfr. No. D28494S, D28474W, D28497, D28499X, D28494N and D28493N	DeWalt	D284937	**3LA64**
Mfr. No. 6080-20, 6081-20, 6082-20, 6086-20, and 6089-20	Milwaukee	49-12-0020	**1WG73**
Mfr. No. 6072, 6078, 6065-6, 6081-20, 6066-6, 6096, 6067-6, 6068-6, and 6098	Milwaukee	49-12-0345	**2Z741**
Mfr. No. D28494S, D28497, D28499X, D28494N, D28493N and D28474W	DeWalt	D284938	**3LA65**
Mfr. No. D28494S, D28497, D28499X, D28494N, D28493N and D28474W	DeWalt	D284939	**3LA66**
Wheel Guard			
4" Flaring Cup, Type-11 Wheels	DeWalt	D284934	**53UG91**

BOSCH DEWALT Makita Milwaukee

Sander/Grinder Dust Guards

Attach directly to grinders to efficiently collect and contain dust in the workshop or on the jobsite. Protect users from harmful exposure to dust particles.


No. 39RY38


No. 20UJ30

Item	For Use with Grinder Size (in.)	Mfr. Model	Item No.
Bosch			
Hand Grinder Dust Guard	4" to 5"	18SG-5E	**21TP14**
	4½" to 5"	18DC-5E	**21TP08**
	6"	18DC-6E	**21TP09**
	7"	19DC-7	**21TP11**
	9"	19DC-9	**21TP12**
Hose Adapter	Mfr. No. VAC140A, VAC140S, VAC090A, VAC090S	VX120	**35KF44**
Small Angle Grinder Dust Collection Attachment, 4½" to 5" dia.	5"	GA50DC	**39RY38**
Tuckpointer Guard	5"	TG502	**35KG08**
DeWalt			
Cutting and Tuck Pointing Dust Shroud	5" to 6"	DWE46100	**38A913**
Dust Shroud	5"	DWE46152	**39RV85**
Grinding Dust Shroud	Mfr. No. DWV012	DWE46172	**54JJ56**
Makita			
Angle Grinder Dust Guard	4½" to 5"	193794-5	**14U131**
	4½" to 5"	195236-5	**14U137**
Dust Hose	Hose for Makita Dust Guards	192108-A	**14U129**
Grinder Dust Attachment	7" to 9"	195386-6	**40K410**
Milwaukee			
Grinding Dust Shroud	4" to 5"	49-40-6100	**20UJ30**
	7"	49-40-6105	**20UJ31**
Grinding Dust Shroud Hose	Hose for Milwaukee Dust Guards 18"L	49-40-6190	**20UJ32**





Polishers

metabo PORTER CABLE Milwaukee DEWALT ★GA GRAINGER APPROVED

- For additional polishing bonnets and pads, see Grainger.com®

Use with cleaning compounds and wax for cleaning and polishing vehicles, glass products, medical equipment, precision instruments, precious metals and copper. Feature a 5/8"-11 spindle, except Random Orbit Sander/Polisher No. 3MUX6 has a 5/16"-24 threaded spindle.

Pad Size	No Load RPM	Amps	Speed Type	Features	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
Wet Polishers									
4", 5"	1700 to 5400	9.6	Variable	Variable Speed, Speed Control, Overload Protection, Soft Start, External Water Supply, Temperature monitor with LED display, GFIC	12¾"	5.2	Metabo	PWE 11-100	**36H091**
Random Orbital Polishers									
6"	2500 to 6800	4.5	Variable	Random, Swirl Free Polishing Action, 120 V	11½"	5.8	Porter Cable	7424XP	**3MUX6**
Electric Right Angle Polishers									
7"	0 to 2800	11.0	Variable	Self-Stopping Brush System and Spindle Lock	16½"	8.8	Milwaukee	5540	**1Y086**
7", 9"	1750	11.0	Constant	Self-Stopping Brush System and Spindle Lock	16½"	8.8	Milwaukee	5455	**2Z737**
7", 9"	0 to 1750	11.0	Variable	Self-Stopping Brush System and Spindle Lock	16½"	8.8	Milwaukee	5460-6	**3W784**
7", 9"	0 to 3500	12.0	Variable	Controlled Finishing System (CFS), Electronic Module, Heat-Treated Precision-Cut Steel Gears	18½"	6.7	DeWalt	DWP849	**13J066**
7", 9"	0 to 3500	12.0	Variable	Controlled Finishing System (CFS), Soft Start, Electronic Module, Heat-treated, Precision-cut Steel Gears, Wool Ingestion Shields; Non Mar Rubber Gear Case Cover	17⅝"	3.1	DeWalt	DWP849X	**13J065**

Description	Attachment Type	Dia.	Thickness	For Use With	Brand	Item No.
Polishing Bonnets and Pads						
Wool Polishing Bonnet	Elastic Band	7"	1⅛"	7" Backing Plate	GA	**12U063**
Wool Polishing Pad	Hook-and-Loop	7½"	1½"	6½" Backing Plate	GA	**12U069**
Foam Polishing Pad	Hook-and-Loop	8"	1½"	6½" Backing Plate	GA	**12U070**
Compound Pads						
Wool Polishing Pad	Hook-and-Loop	7½"	1½"	6½" Backing Plate	GA	**12U071**
Foam Buffing Pad	Hook-and-Loop	8"	1½"	6½" Backing Plate	GA	**12U072**





metabo ★Dayton Milwaukee DEWALT

Die and Straight Hand Grinders

Powerful, smooth-running grinders for sanding, carving, buffing, sharpening, and production use.

Wheel Dia.	No Load RPM	Amps	Switch Type	Tool Length	Brand	Mfr. Model	Item No.
Straight Grinders							
—	25,000	3.5	Paddle	14½"	Metabo	GP 400	**34TE36**
1"	22,000	1.0	Toggle	10"	Dayton	400H44	**400H44**
3"	14,500	11.0	Trigger	21"	Milwaukee	5211	**6Z222**
5"	7000	12.0	Trigger	20"	Milwaukee	5223	**1Y070**
6"	5500	15.0	Trigger	22"	Milwaukee	5243	**6Z217**

Wheel Dia.	No Load RPM	Amps	Switch Type	Tool Length	Brand	Mfr. Model	Item No.
Die Grinders							
1½"	25,000	4.2	Paddle	14"	DeWalt	DWE4887	**30RV79**
1½"	25,000	4.2	Paddle	14"	DeWalt	DWE4887N	**30RV80**
2"	21,000	4.5	Rocker	13½"	Milwaukee	5192	**4Z818**
2"	21,000	4.5	Paddle	13½"	Milwaukee	5194	**1Y068**
2"	13,000 to 34,000	6.4	Slide	10"	Metabo	GE710 Compact	**36H112**
2"	10,000 to 30,500	6.4	Slide	13¾"	Metabo	GE710 Plus	**36H113**
2"	14,500	11.0	Trigger	21½"	Milwaukee	5196	**6Z283**
3"	2,500 to 8,700 RPM	8.5	Slide	14"	Metabo	GE950 G Plus	**36H114**
¼" Die Grinder Collet							
For Use with Nos. 4Z818 and 1Y068					Milwaukee	48-66-0975	**2Y319**

makita Milwaukee DYNABRADE

Bandfiles

Quickly grind and deburr ends of metal stock. Also blend, clean, polish, surface, and condition.



Belt Size	Features	Amps @ 120V	Tool Length	Tool Weight (lb.)	Includes	Brand	Mfr. Model	Item No.
—	1½" Dust Collection Port, Exposed Front Pulley	5.0	15"	4.6	Multi Position Side Handle, 2 Ea 40, 60, 80, 100 And 120 Grit Abrasive Belts	Makita	9031	**1GUB9**
½ x 18"	1½" x 18" Arm Capacity, ⅝ to 11" Spindle Thread	5.5	18"	6.0	3 Position Side Handle, On/Off Paddle Switch, Double Insulated	Milwaukee	6101-6	**3LJ30**
1½ x 30"	—	8	21½"	10	Coarse Belt	Hardin	HPG-331	**19TA91**
¼ to ¾" W x 18 to 24" L	—	—	19	—	—	Dynabrade	40610	**11X738**
½ to ¾ x 18"	Sanding Head Pivots 360 Degrees	—	19"	—	40610 Electric Dynafile II with 11203 Contact Arm and 11202 and 11204 Contact Arms, (8) Abrasive Belts, Platen Pads	Dynabrade	40611	**25H831**



No. 35KG79



DREMEL®

Rotary Tools

- For more information on attachments, kit components, and accessories see Grainger.com®

Handheld power tools designed for versatility, high speed, and low torque.

Description	Amps @ 120V	No Load RPM	No. of Pieces	Tool Length	Tool Wt. (lb.)	Mfr. Model	Item No.
Corded Tool Kits							
Single-Speed	1.15	35,000	6-Pc.	8	1.2	100-N/7	**5EEU4**
2-Speed	1.15	15,000/35,000	21-Pc.	8	1.2	200-1/21	**5EEU5**
Variable Speed	1.2	5000 - 35,000	27-Pc.	8	3.24 lb.	3000-1/24	**14H446**
Variable Speed	1.8	35,000	47-Pc.	9"	1.2 lb.	4300-5/40	**52YP65**
Variable Speed	1.8	5000-35000	72-Pc.	9"	1.2 lb.	4300-9/64	**52YP66**
High Performance	1.6	5000 - 35,000	59-Pc.	9"	4 lb.	4000-6/50	**5EEU8**

Description	Voltage	No Load RPM	No. of Pieces	Tool Length	Tool Wt.	Mfr. Model	Item No.
Cordless Tool Kits							
Variable Speed, Micro	8V	5000 to 28,000	20-Pc.	8"	2.5 lb.	8050-N/18	**35KG79**
Variable Speed	8.0V	5000 to 30,000	22-Pc.	8"	4 lb.	8100-N/21	**34E358**
Variable Speed	12.0V	5000 to 30,000	30-Pc.	6"	4 lb.	8220-1/28	**34E359**
Variable Speed w Travel Case	12.0V	5000 to 30,000	31-Pc.	—	4"	8220-2/28	**34E360**

Description	No. of Pieces	Mfr. Model	Item No.
Kits			
Accessory Tin Can Kit	75	707-01	**3DRN3**
All Purpose Accessory Kit	70	EZ725	**39FV52**
	110	709-02	**49WL60**
	160	710-08	**5EEV1**
Carving/Engraving Kit	11	689-01	**1PKX2**
EZ Lock Cut Off Wheel Kit		EZ688-01	**3DRN9**
Mandrel Starter Kit	6	EZ406-02	**1PKX3**

Description	Mfr. Model	Item No.
Accessories		
Multipro Chuck	4486	**1UH68**
Quick Change Collet Nut Set	4485	**5EEW1**
Engraving Cutter	107	**21CJ04**
High Speed Cutter, ⅛" Dia.	194	**21CJ09**
High Speed Cutter, 3⁄16" Dia.	192	**21CJ08**
High Speed Cutter, ¼" Dia.	117	**21CJ06**
High Speed Cutter, 5⁄16" Dia.	115	**21CJ05**
High Speed Steel Cutter	199	**3W845**
Structured Tooth Tungsten Carbide Cutter, 5⁄16" Dia.	9933	**1UH86**
Structured Tooth Tungsten Carbide Cutter, 5⁄16" Dia.	9935	**1UH87**
Structured Tooth Tungsten Carbide Cutter, ¼" Dia.	9931	**1UH85**

Description	Mfr. Model	Item No.
Tungsten Carbide Cutter, ⅛" Dia.	9901	**3W851**
Tungsten Carbide Cutter, ⅛" Dia.	9909	**3W852**
Tungsten Carbide Cutter, ⅛" Dia.	9903	**6X194**
Aluminum Oxide Grinding Stone, 3⁄8" Dia.	932	**3W850**
Aluminum Oxide Grinding Stone, 3⁄8" Dia.	952	**3W849**
Aluminum Oxide Grinding Stone, 5⁄8" Dia.	8193	**1UH81**
Silicon Carbide Grind Wheel, 3⁄16" Dia.	84922	**21CJ11**
Carbon Steel Brush, ½" Dia.	442-02	**45AF67**
Carbon Steel Brush, ¾" Dia.	428-02	**45AF58**
Diamond Wheel, ⅞" Dia.	545	**1UH72**
Flap Wheel, 3⁄8" Dia.	502	**1UH69**
Flap Wheel, 3⁄16" Dia.	504	**1UH70**
Sanding Band, ½" Dia.	408	**1UH59**
Sanding Band, ½" Dia.	432	**1UH65**
Cut-off Wheel, 1 5⁄16" Dia.	409	**3W841**
Cut-off Wheel, 1 5⁄16" Dia.	420	**1UH61**
Cut-off Wheel, Fiberglass Reinforced, 1 1⁄4" Dia.	426	**3W842**
Polishing Accessory, 3⁄8" Dia.	422	**1UH62**
Mandrel Screw	401	**1UH57**
Mandrels	402	**3W843**
EZ Lock Cut-Off Wheels Accessories		
For Metal, Pk of 5	EZ456	**1PKX5**
For Metal, Pk of 12	EZ456B	**1PKX6**
Thin Cut for Metal and Reslotting Screws	EZ409	**3DRN7**
For Plastic	EZ476	**1PKX7**
Cutting Floor Tile	EZ545	**3DRN4**
For Wood	EZ544	**3DRN6**
EZ Lock Mandrel Accessories		
For Use with EZ Lock Accessories	EZ402	**1PKX8**
EZ Lock Polishing Wheels and Buffs Accessories		
Cloth Polishing Wheel	423E	**1PKX9**
Abrasive Buffs; (1) 180-Grit, (1) 280-Grit	511E	**1PKY1**
Abrasive Buffs; (2) 320-Grit	512E	**1PKY2**
EZ Lock Detail Abrasive Brushes Accessories		
Coarse, 36 Grit	EZ471SA	**5EEV8**
Medium, 120 Grit	EZ472SA	**5EEV9**
Fine, 220 Grit	EZ473SA	**5EEW0**

Description	Mfr. Model	Item No.
Attachments and Batteries		
Right Angle Drive	575	**1UH74**
12 Volt Battery	B812-03	**52YP64**



No. 3XA70

DREMEL®

Engravers

5-position stroke adjustment dial to control engraving depth. Includes replaceable carbide steel point.

Description	Strokes per Min.	Amps @ 120V	Tool Length	Tool Wt.	Mfr. Model	Item No.
Engravers						
Dremel Engraver	7200	0.2	7.0	0.85 lb.	290-05	**3XA70**
Accessories						
Carbide Tip Replacement Point for Normal Use					9924	**1UH83**
Diamond Tip Replacement Point for Continuous Use					9929	**1UH84**

No. 24T736



DREMEL®

Multisaws

Saw-Max™—Use for straight, flush, and plunge cuts in wood, plastic, metal, tile, and masonry. Includes Worm Drive™ gearing and on-board dust extraction port.

Ultra-Saw™—3-in-1 mini circular saw makes it easy to saw, flush cut, and surface prep. Designed with long-lasting drive train, metal foot, and guard. Removes paint, rust, metal, and concrete. Includes tool, auxilary handle, storage bag, wood/plastic wheel, wood/plastic flush cut wheel, (2) metal wheels, and masonry wheel.

Description	Blade Dia.	No Load RPM	Amps	Mfr. Model	Item No.
Saw-Max™	3"	17,000	6.0	SM20-03	**24T736**
Ultra-Saw™	3½"	13,000	7.5	US40-03	**48UR84**

Description	Mfr. Model	Item No.
Accessories for No. 24T736		
Carbide Cut-Off Wheel	SM500	**24T737**
Aluminum Oxide/Silicon Carbide Cut-Off Wheel	SM540	**24T739**
Carbide Flush Cut Wheel	SM600	**24T740**
Miter Miter Saw Guide	SM840	**24T741**
Accessories for No. 48UR84		
Surface Preparation Wheel, Thinset Removal, Concrete Preparation	US410-01	**38EY46**
Cutting Wheel, Wood Cutting	US500-01	**38EY47**
Cutting Wheel, Metal Cutting	US510-01	**38EY48**
Cutting Wheel, Masonry Cutting	US520-01	**38EY49**
Cutting Wheel, Tile Cutting	US540-01	**38EY50**
Flush Cut Wheel, Wood Cutting	US600-01	**38EY51**
Cutting Wheel, Cutting	US700	**38EY52**



No. 491N39

DREMEL®

Multi-Max™ Oscillating Tools

Ergonomic soft grip for comfort, 7-ft. durable rubber cord, and a storage case.

Oscillations per Minute	Amps	Tool Length	Tool Wt.	Mfr. Model	Item No.
10,000 to 21,000	3.5	14¼"	2.8 lb.	MM35-01	**491N39**

Size	Item No.	Pkg. Qty.
Blades		
Flushcut Blade, Carbide Grit		
1¼"	**22DL20**	1
Flat Saw Blade For Wood and Drywall		
3" Dia.	**3HFY9**	1
3" Dia.	**5EEV4**	3
Carbide Grout Blade		
1⁄16" W	**3HFZ2**	1
⅛" W	**3HFZ1**	1
Hook Blade		
—	**34E368**	1
Drywall Jab Saw Blade		
—	**34E369**	1







BOSCH
PORTER CABLE
DEWALT
Makita

Random Orbit Sanders

Pad Size	Orbits Per Min.	Amps	Type of Sandpaper	Features	Tool Length	Tool Weight (lb.)	Brand	Mfr. Model	Item No.
Disc Sanders									
4½" x 4"	12,000	—	¼ Sheet	Microfilter Dust Canister with Screw-Off Cap, Precision-Machined Aluminum Sanding Plate	10"	2.7	Bosch	GSS20-40	**48XY73**
5"	12,000	1.9	Hook and Loop	Controlled Finishing System Maintains Pad Speed, Dual-Plane Counter-Balanced Fan	11"	3.0	Porter Cable	382	**6XZU2**
5"	12,000	3.0	Hook and Loop	Low Vibration, Rubber Overmold, Dust Sealed Switch, Improved Dust Collection	11"	2.9	DeWalt	DWE6421	**39RW24**
5"	12,000	3.0	Hook and Loop		11"	2.9	DeWalt	DWE6421K	**39RV95**
5"	12,000	3.0	PSA		11"	2.9	DeWalt	DWE6420	**39RV98**
5"	8000-12,000	3.0	Hook and Loop	Variable Speed, Low Vibration Design, Rubber Overmold, Dust Sealed Switch, Improved Dust Collection	11"	2.9	DeWalt	DWE6423K	**39RW15**
5"	2500-6800	4.5	PSA	Accepts 5/16-24 Threaded Sanding Pads, Random Orbit, Swirl-Free Sanding, Side Handle	11"	5.5	Porter Cable	7345	**3MUX9**
5"	0-3700	6.0	Hook and Loop	Variable Speed Trigger Dial, Adjustable Dust Shroud	9¼"	4.0	DeWalt	DWE6401DS	**24T879**
6"	4000-10,000	2.7	Hook and Loop	Lock On Button, Speed Control	12⅛"	5.2	Makita	BO6030	**14F072**
7"	2500-4700	7.9	PSA	Lock On Button, Side Handle	8¼"	4.6	Makita	GV7000C	**6RA91**
Back Up Pads for No. 6RA91									
5" Diameter Plastic Back Up Pad							Makita	743025-8	**6RA94**
7" Diameter Rubber Back Up Pad							Makita	192978-2	**6RA95**
Finishing Sanders									
¼"	12,000	2.4	¼ Sheet	Rubber Overmold Texture, Improved Paper Clamp, Locking Dust Port System, Low Vibration	10⅛"	2.7	DeWalt	DWE6411K	**39RW05**
4¼" x 4½"	13,500	2.0	¼ Sheet	Dual-Plane, Counter-Balanced Low-Vibration Design	9"	2.3	Porter Cable	380	**6XZU1**
4¼" x 4½"	14,000	2.3	¼ Sheet	Rubber Overmold Texture, Improved Paper Clamp, Locking Dust Port System, Low Vibration	10⅛"	2.8	DeWalt	DWE6411	**39RW26**





fein
PORTER CABLE

Belt Sanders

Feature gear and belt drive, and flush sand capability.

Belt Size	No-Load SFPM*	Amps	Features	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
2" x 39⅜"	980 to 5600	15.0	Tool Free Belt Clamping System, Anti-Vibration Handle, Very Short Tooling Time for Stationary Belt Grinding, Height Adjustable Table for Flat Grinding, Continuously Adjustable Flange Mounted Motor	9"	12.4 lb.	Fein	GHB 15-50	**54FH37**
3" x 21"	850 to 1300	8.0	360 Deg Swiveling Dustbag, Variable Speed Dial, Quick Release Sanding Belt, Flush to Vertical Sanding	12½"	10.8 lb.	Porter Cable	352VS	**4Z954**

Surface feet per minute.



PORTER CABLE

Drywall Sander

62"L tool can sand 10-ft. ceilings without a scaffold.
Powerful 4.7A motor.

Description	Mfr. Model	Item No.
Drywall Sander, Built-in dust collection connector	7800	**3JF52**

Handheld Planers

DEWALT Makita BOSCH

W (in.)	Depth of Cut (in.)	No Load RPM	Amps @ 120V	Tool Length (In)	Includes	Tool Weight (lb.)	Mfr. Model	Item No.
Handheld Planers								
Bosch								
3¼	1/16	16,500	6.5	11 13/32	Reversible Woodrazor™ Blade, Dual-Mount Guide Fence, Overshoe for Fence, Shavings Bag, Blade Wrench	6.3	PL1632	**36WH96**
3¼"	3/32	16,500	6.5	11⅛	Straight Plastic Overshoe for Fence, Shavings Bag, Blade Wrench, Carrying Case	6.3	PL2632K	**39RY32**
DeWalt								
3¼	1/16	17,000	5.5	11.5	2 High-Speed Steel Blades, Rabbeting Fence, Blade Depth Setting Gauge, Blade Resharpening Tool, Socket Wrench	6	D26676	**5NAK0**
3¼	1/16	17,000	5.5	11.5	2 Reversible Carbide Blades, Rabbeting Fence, Blade Depth Setting Gauge, Dust Adaptor, Socket Wrench, Kit Box	6	D26677K	**5NAK1**
3¼	3/32	15,000	7.0	12½	2 Carbide Blades, Rabbiting Fence, Carry Case	6.6	DW680K	**5VC66**
Makita								
3¼	3/32	17,000	6.5	11¼"	Blade Gauge Set, Wrench, Blade Set, Case	5.7	KP0800K	**14F142**
3¼	5/32	16,000	7.5	11⅜"	(1) 3¼" Planer Blade, 2/pk,(1) Blade Gauge,(1) Socket Wrench,(1) Guide Rule	7.3	KP0810	**14F143**
4⅜	1/16	16,000	7.5	14"	Blade Gauge Set, Wrench, Blade Set,	9.3	1912B	**14U128**
4⅜	3/16	15,000	9.6	13 11/32"	Blade Gauge Set, Wrench, Blade Set,	11.4	1002BA	**14H007**
6¾	1/16	15,000	10.9	20¾"	Blade Gauge Set, Wrench, Blade Set,	19.8	1806B	**14U127**
DeWalt Accessories								
Carbide Replacement Blades, Pk. of 2, For Use with No. 5VC66							DW6654	**4TG61**
HSS Replacement Blades, Pk. of 2, For Use with No. 5VC66							DW6655	**1PX40**








No. 21VH80


No. 1GUB5


No. 45L123


No. 2WA31

Nibblers and Shears

Nibblers work by punching or nibbling out small sections of metal. Shears work more like scissors to cut patterns in sheet metal.

Stainless Steel Cap. (Gauge)	Steel Cap. (Gauge)	No Load Strokes/ Minute	Amps @ 120V	Min. Cut Radius	Features	Tool Length (In)	Tool Weight (lb.)	Brand	Mfr. Model	Item No.
Nibblers										
12	10	1000	4.0	2½"	Starting Hole Required, AC DC Toggle Switch	12¼	7.8	Milwaukee	6880	**38D259**
13	6	750	10.0	3⅜"	Unlimited Curve, Tool Less Punch and Die Change	13	8.4	Fein	BLK 5.0	**21VH81**
13	10	1300	6.2	5 1/16"	Lock On Switch, Highly Visible Line-Of-Sight For Precise Pattern Following	8½"	7.5	Makita	JN3201	**44YV59**
14	10	750	10.0	¼"	Unlimited Curve, Tool Less Punch and Die Change	13	7.7	Fein	BLK 3.5	**21VH80**
18	16	1900	4	1¾"	Cuts Up To 7 Ft Per Minute, AC DC Paddle Switch, Starting Hole Required, Cut Width 1½"	11¼	4.8	Milwaukee	6890	**38D260**
18	16	1950	6.5	1"	Rotating Head, Cuts Square and Round Corrugation, Paddle Switch	10.5	4.5	DeWalt	DW897	**4LF25**
18	16	2200	5.0	1¾	Die Rotates 360°, ¼" Stroke, Lock On Sliding Switch, Built-In Thickness Gauge	10¼	3.5	Makita	JN1601	**1GUB5**
24	18	1800	2.9	9/16"	Rapid Tool Less Punch and Die Change System, Chip Protection on Vent Slots, Includes Punch and Die	11¼	3.9	Fein	BLK 1.3CSE	**21VH79**
Shears										
13	10	1600	6.2	2"	Built-In Thickness Gauge, Well Balanced, Rubberized Soft Grip Handle	8⅜	7.4	Makita	JS3201	**46AD52**
16	13	800 to 1700	2.9	13/16"	(4) Cutting Sides for Each Cutter, Fast and Clean Cuts	9.75	4.6	Fein	BLS 2.5E	**20UR17**
16	14	4000	5.0	¾	Shoe, Hex Wrench, Feeler Gauge, Scrap Deflector, Toggle Switch	10.25	5.0	Milwaukee	6815	**6Z359**
18	16	4000	4.0	1"	Hex Wrench, Feeler Gauge, Toggle Switch	10.25	5.0	Milwaukee	6805	**6Z047**
18	16	4000	3.3	1 3/16"	Built In Thickness Gauge, Thumb Switch	9⅛	4	Makita	JS1602	**45L123**
19	16	2300 to 4800	2.9	9/16"	(4) Cutting Sides for Each Cutter, Fast and Clean Cuts	8.5	3.7	Fein	BLS 1.6E	**20UR16**
19	16	4500	4.0	3⅜"	Variable Speed, Clean View of Cutting Area, Quick Change Tool Blades	9"	3.3	Fein	BSS 1.6 E	**54FH32**
20	18	0 to 2500	5.0	5½	Swivel Head, Variable Speed Dial	9.1	5.0	DeWalt	DW890	**4LF09**
20	18	0 to 2500	6.5	—	Lock On Button, Variable Speed Trigger, Shear Head Rotates 360°, Aluminum Gear Housing	11⅞	3.9	Makita	JS1300	**14F138**
20	18	0 to 2500	6.8	7	Head Swivels 360°, Trigger Speed Control w/Lock On Button, Magnesium Gear Housing	12.3	4.0	Milwaukee	6852-20	**2WA31**


No. 12F747


No. 5TE13


No. 48XT76


No. 5HXL7


No. 49EN16


No. 451G46

Corded Reciprocating Saws

- 120VAC

Feature keyless blade clamp and rubber boot for superior gripping and operator comfort. Used in construction and demolition work to make fast, aggressive cuts in wood, metal, and nail-embedded wood. Corded reciprocating saws have longer run times and generally have more power than battery-operated tools. They are used in demolition, construction, metalworking, and other applications where precision is unimportant. Interchangeable blades are used to cut specific workpiece materials, such as wood or metal.

Current	Stroke Length	Max. Strokes per Minute	Stroke Type	Adjustable Shoe	Vibration Reduction	Includes	Cord Length	Item No.
Demolition								
Makita								
15 A	1 ¼ in	2,800	Orbital, Straight	Yes	Yes	6 in Saw Blade, 6 in Reciprocating Saw Blade, Tool case	4 ft 6 in	**48XT76**
Skilsaw								
15 A	1 ¼ in	2,900	Orbital	No	Yes	—	8 ft	**451G47**
General Purpose								
Bosch								
12 A	1 in	2,800	Orbital	No	Yes	(1) Carrying Bag, (1) Reciprocating All Purpose Saw Blade	8 ft	**6YHT2**
14 A	1 ⅛ in	2,900	Orbital	Yes	Yes	(1) Carrying Bag, (1) Reciprocating All Purpose Saw Blade	8 ft	**12F747**
DeWalt								
10 A	1 ⅛ in	2,800	Straight	No	No	Instruction Manual	6 ft	**39RV94**
12A	1⅛ in	2900	Straight	No	No	(150) Reciprocating Saw Blades	6 ft	**286RM0**
12A	1⅛ in	2900	Straight	No	No	(125) Reciprocating Saw Blades	6 ft	**286RL9**
12A	1⅛ in	2900	Straight	No	No	(125) Reciprocating Saw Blades	6 ft	**286RM1** *
12 A	1 ⅛ in	2,900	Straight	No	No	—	6 ft	**30RV83**
12 A	1 ⅛ in	3,000	Orbital	Yes	No	Heavy-Duty Kit Bag, Instruction Manual	6 ft 10 in	**38A921**
13 A	1 ⅛ in	2,700	Orbital	Yes	No	Carry Case, Instruction Manual	8 ft	**5TE13**
Milwaukee								
12 A	¾ in	3,000	Straight	No	Yes	Carrying Case, Sawzall(R) Recip Saw	8 ft	**5HXL6**
12 A	1 ⅛ in	2,800	Straight	Yes	Yes	Sawzall Recip Saw	8 ft	**39J092**
12 A	1 ¼ in	3,000	Orbital	Yes	Yes	Carrying Case, Sawzall(R) Recip Saw	8 ft	**4YE49**
12 A	1 ¼ in	3,000	Orbital	Yes	Yes	Carrying Case, Sawzall(R) Recip Saw	10 ft	**4YE48**
12 A	1 ⅛ in	3,000	Straight	Yes	Yes	Carrying Case, Sawzall(R) Recip Saw	8 ft	**5HXL7**
15 A	1 ¼ in	2,800	Orbital	Yes	Yes	Carrying Case, Sawzall(R) Recip Saw	10 ft	**2CDC9**
Porter Cable								
7.5 A	1 ⅛ in	3,200	Straight	Yes	No	Reciprocating Saw, Wood Cutting Blade	6 ft	**49EN16**
8.5 A	1 ⅛ in	3,200	Orbital	Yes	No	(1) Kit Box, (1) Wood Cutting Blade, Orbital Reciprocating Saw	6 ft	**34G838**
Skilsaw								
13 A	1 ⅛ in	3,200	Straight	No	Yes	—	8 ft	**451G46**

Handheld size

Teeth per Inch	Blade Length	H	Cut Width	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
4/7	9 in	1 in	0.049 in	Curved, Straight	Diablo	**49XZ96**	25
5	8 in	⅝ in	0.035 in	Straight	Milwaukee	**1BV18**	5
5	12 in	⅝ in	0.035 in	Straight	Milwaukee	**1BV19**	5
5/7	12 in	¾ in	0.05 in	Straight	LENOX	**4XL20**	5
10	6 in	¾ in	0.035 in	Straight	LENOX	**4XL11**	5
10	8 in	¾ in	0.035 in	Straight	LENOX	**4XL18**	5
10, 14, 18	6 in, 9 in	¾ in, 1 in	0.05 in	Straight	Milwaukee	**2JYX8**	1
⅔	6 in	¾ in	0.05 in	Straight	Milwaukee	**2AC14**	5
⅔	6 in	¾ in	0.05 in	Tapered	Milwaukee	**1XEK8**	5
⅔	6 in	¾ in	0.05 in	Tapered	Milwaukee	**1Y250**	50
⅔	8 in	¾ in	0.045 in	Straight	Milwaukee	**6MPH3**	50
⅔	8 in	¾ in	0.05 in	Straight	Milwaukee	**2AC16**	5
⅔	8 in	¾ in	0.05 in	Straight	Milwaukee	**1Y252**	50
⅔	8 in	¾ in	0.05 in	Tapered	Milwaukee	**1XEK9**	5
⅔	12 in	¾ in	0.05 in	Straight	Milwaukee	**1Y253**	50
BIM-M42 Blade Material							
10	6 in	¾ in	0.75 in	Tapered	Westward	**24A565**	5
Bi-Metal Tipped Kit							
Bi-Metal Blade Material							
2, 5, 7, 10, 14, 18, 24	6 in, 8 in, 9 in	¾ in, 1 in	—	Straight, Tapered	Milwaukee	**6MPJ5**	1
Steel Blade Material							
6, 10, 18, 24	6 in, 8 in, 9 in	¾ in, ⅞ in	0.035 in, 0.042 in, 0.05 in	Straight	LENOX	**53DN70**	1



Bi-Metal Tipped, Bi-Metal Blade Material No. 1Y250

Milwaukee DIABLO LENOX WESTWARD

General Purpose Reciprocating Saw Blades

- One cutting edge
- Rigid for straight cuts

These blades are used to make aggressive cuts in sheet metal, wood, and other materials that are used in maintenance, metal fabrication, and demolition tasks. They are used with corded and cordless reciprocating saws.

Teeth per Inch	Blade Length	H	Cut Width	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
6	6 in	⅞ in	0.062 in	Straight	LENOX	**4YFX4**	5
6	12 in	1 in	0.05 in	Straight	LENOX	**53DN79**	25
7/9	6 in	1 in	0.043 in	Straight	Diablo	**49YA04**	25
7/9	9 in	1 in	0.043 in	Curved, Straight	Diablo	**49YA05**	25
7/9	12 in	1 in	0.043 in	Curved, Straight	Diablo	**49YA06**	25
7/11	6 in	1 in	0.062 in	Tapered	Milwaukee	**5LY53**	25
7/11	9 in	1 in	0.062 in	Straight	Milwaukee	**5LY54**	25
7/11	9 in	1 in	0.062 in	Straight	Milwaukee	**5LY51**	5
7/11	12 in	1 in	0.062 in	Straight	Milwaukee	**5LY55**	25
7/11	12 in	1 in	0.062 in	Straight	Milwaukee	**5LY52**	5
10	9 in	⅞ in	0.062 in	Straight	LENOX	**5YN27**	2
10	9 in	⅞ in	0.062 in	Straight	LENOX	**4YFX6**	5
Bi-Metal Tipped Kit							
Bi-Metal Blade Material							
5, 7, 14, 18	6 in, 9 in	1 in	0.05 in	Straight, Tapered	Milwaukee	**2VJ50**	1
½, 4/7, 5/7, 7/9	6 in, 9 in	1 in	0.035 in, 0.049 in, 0.063 in	Curved, Straight	Diablo	**49YA16**	1
Steel Blade Material							
6, 10, 14	6 in, 9 in	⅞ in, 1 in	0.035 in, 0.042 in, 0.05 in, 0.062 in	Straight	LENOX	**36C276**	1
Carbide Tipped							
Bi-Metal Blade Material							
5/7	6 in	1 in	0.049 in	Straight	Diablo	**49XZ73**	3
5/7	9 in	1 in	0.049 in	Straight	Diablo	**49XZ74**	3
5/7	12 in	1 in	0.049 in	Straight	Diablo	**49XZ75**	3
Carbide Blade Material							
6	9 in	1 in	0.05 in	Straight	LENOX	**422V95**	5



Bi-Metal Tipped Bi-Metal Blade Material No. 49YA05

Milwaukee LENOX DIABLO

Demolition Reciprocating Saw Blades

- Rigid for straight cuts

Saw blades are used with corded and cordless reciprocating saws for demolition tasks such as cutting wood, metal, fiberboard, and other composites.



Carbide Tipped, Bi-Metal Blade Material No. 499L11

Milwaukee LENOX DIABLO WESTWARD BOSCH

Nail-Embedded Wood Reciprocating Saw Blades

These reciprocating blades make aggressive cuts in nail-embedded wood as well as a mixture of wood and light metal, such as walls and wood-framed partitions. They are used in corded and cordless saws.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
5	6"	1"	0.062"	Rigid	Tapered	Milwaukee	**6MR68**	25
5	6"	¾"	0.050"	Rigid	Tapered	Milwaukee	**1BV06**	5
5	9"	1"	0.062"	Rigid	Tapered	Milwaukee	**3LC91**	5
5	9"	1"	0.062"	Rigid	Tapered	Milwaukee	**6MR73**	25
5	9"	¾"	0.035"	Rigid	Tapered	Milwaukee	**1Y248**	50
5	12"	1"	0.062"	Rigid	Tapered	Milwaukee	**3LC92**	5
5	12"	1"	0.062"	Rigid	Tapered	Milwaukee	**6MR74**	25
14	6"	1"	0.042"	Rigid	Straight	Milwaukee	**4WP13**	5
14	6"	1"	0.042"	Rigid	Straight	Milwaukee	**6MR72**	25
14	6"	¾"	0.035"	Flexible	Straight	Milwaukee	**2AC19**	5
14	6"	¾"	0.035"	Flexible	Straight	Milwaukee	**6MPH4**	50
14	6"	¾"	0.035"	Rigid	Straight	LENOX	**4XL12**	5
14	8"	¾"	0.035"	Rigid	Straight	LENOX	**4YGA2**	5
14	9"	1"	0.042"	Rigid	Straight	Milwaukee	**4WP15**	5
14	9"	1"	0.042"	Rigid	Straight	Milwaukee	**6MR78**	25
14	9"	¾"	0.035"	Flexible	Straight	Milwaukee	**1BV15**	5
14	12"	1"	0.042"	Rigid	Straight	LENOX	**4YFX2**	5
Carbide Tipped								
14/18	12"	2"	0.035"	Rigid	Straight	Bosch	**499L10**	1
14/18	12"	1 5/16"	0.035"	Rigid	Straight	Bosch	**499L11**	1



Diamond Grit, High Speed Steel Blade Material No. 499L07

Milwaukee LENOX BOSCH

Tile and Masonry Reciprocating Saw Blades

These tile and masonry blades for corded and cordless reciprocating saws have a cutting edge made from abrasive-grit particles to cut aggressively and quickly through masonry, tile, and other hard, abrasive materials.

Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
4"	¾"	0.050"	Rigid	Straight	Milwaukee	**2RFN8**	3
Carbide Grit							
Bi-Metal Blade Material							
8"	¾"	0.040"	Flexible	Straight	LENOX	**5YN23**	2
High Speed Steel Blade Material							
9"	¾"	0.05"	Rigid	Straight	Bosch	**499L08**	1
Steel Blade Material							
6"	⅝"	0.032"	Flexible	Tapered	LENOX	**21Y677**	2
10"	¾"	0.050"	Flexible	Straight	LENOX	**21Y653**	2
Tungsten Carbide Blade Material							
6"	¾"	0.039"	Rigid	Straight	Milwaukee	**1XEL3**	50
9"	¾"	0.039"	Rigid	Straight	Milwaukee	**1Y230**	3
9"	¾"	0.039"	Rigid	Straight	Milwaukee	**1XEL4**	50
Diamond Grit							
High Speed Steel Blade Material							
9"	¾"	0.04"	Rigid	Straight	Bosch	**499L07**	1
Steel Blade Material							
6"	1"	0.042"	Rigid	Straight	Milwaukee	**4FTH4**	1
8"	¾"	0.040"	Rigid	Straight	LENOX	**2JGA1**	1
9"	¾"	0.042"	Rigid	Straight	LENOX	**6UUG9**	1
9"	1"	0.042"	Rigid	Straight	Milwaukee	**4FTH5**	1
11"	¾"	0.042"	Rigid	Straight	LENOX	**6UUG8**	1



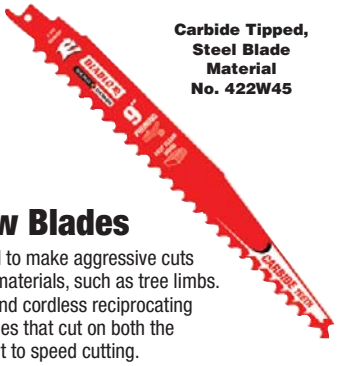
Carbide Tipped, Steel Blade Material No. 54EP99

Thick Metal Reciprocating Saw Blades

- Straight back style

These reciprocating saw blades cut thick metal 3⁄16" and over. They are used with corded and cordless saws, and have a lower teeth per inch (TPI) than blades designed for cutting thinner metals to prevent the blade from clogging, which can cause the cutting to stop or affect cut quality.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
10	4"	3⁄4"	0.035"	Flexible	Milwaukee	**1BV09**	5
10	6"	3⁄4"	0.035"	Flexible	Milwaukee	**2AC15**	5
10	6"	3⁄4"	0.035"	Flexible	Milwaukee	**1Y251**	50
10	6"	1"	0.042"	Rigid	Milwaukee	**6MR66**	25
10	6"	1"	0.042"	Rigid	Milwaukee	**4WP11**	5
10	6"	1"	0.042"	Rigid	Milwaukee	**6MPH9**	50
10	9"	1"	0.042"	Rigid	Milwaukee	**6MR77**	25
10	9"	1"	0.042"	Rigid	Milwaukee	**6MPJ0**	50
12/16	12"	1"	0.042"	Rigid	LENOX	**492R80**	25
Carbide Tipped							
Carbide Blade Material							
7	6"	1"	0.050"	Rigid	Milwaukee	**54ER03**	5
7	9"	1"	0.050"	Rigid	Milwaukee	**54ER01**	1
7	9"	1"	0.050"	Rigid	Milwaukee	**54ER04**	5
Steel Blade Material							
7	6"	1"	0.050"	Rigid	Milwaukee	**54EP99**	1
8	6"	1"	0.049"	Rigid	Diablo	**49XZ61**	1
8	6"	1"	0.049"	Rigid	Diablo	**49XZ70**	3
8	9"	1"	0.049"	Rigid	Diablo	**49XZ62**	1
8	9"	1"	0.049"	Rigid	Diablo	**49XZ71**	3
8	9"	1"	0.050"	Rigid	LENOX	**411M26**	5
8	12"	1"	0.049"	Rigid	Diablo	**49XZ63**	1



Carbide Tipped, Steel Blade Material No. 422W45

Wood & Pruning Reciprocating Saw Blades

Wood and pruning blades are used to make aggressive cuts through wood without embedded materials, such as tree limbs. These blades are used in corded and cordless reciprocating saws, and have fleam-ground blades that cut on both the extension and retraction movement to speed cutting.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
4	6"	3⁄4"	0.050"	Rigid	Tapered	LENOX	**36C229**	5
5	6"	3⁄4"	0.050"	Rigid	Tapered	Milwaukee	**6CFC6**	50
5	9"	3⁄4"	0.050"	Rigid	Tapered	Milwaukee	**2AC12**	5
5	9"	1"	0.049"	Flexible	Tapered	Milwaukee	**5TJE6**	5
5	9"	1"	0.049"	Rigid	Curved, Straight	Diablo	**49XZ81**	5
5	12"	1"	0.060"	Flexible	Tapered	Milwaukee	**5TJE7**	5
6	6"	3⁄4"	0.042"	Rigid	Tapered	Milwaukee	**4TR34**	5
6	6"	3⁄4"	0.050"	Flexible	Straight	LENOX	**4XL15**	5
6	6"	3⁄4"	0.050"	Rigid	Curved	LENOX	**1PMB7**	5
6	9"	3⁄4"	0.042"	Rigid	Tapered	Milwaukee	**4TR35**	5
6	9"	3⁄4"	0.050"	Rigid	Straight	LENOX	**4XL19**	5
6	9"	3⁄4"	0.050"	Rigid	Straight, Tapered	LENOX	**4YFY9**	25
6	12"	3⁄4"	0.042"	Rigid	Tapered	Milwaukee	**4TR36**	5
6	12"	3⁄4"	0.050"	Rigid	Curved	LENOX	**1PMC4**	5
6	12"	3⁄4"	0.050"	Rigid	Tapered	LENOX	**4XL21**	5
BIM-M42 Blade Material								
6	6"	3⁄4"	0.750"	Rigid	Tapered	Westward	**24A551**	5
6	6"	1"	0.750"	Rigid	Tapered	Westward	**24A574**	5
6	9"	3⁄4"	0.750"	Rigid	Tapered	Westward	**24A552**	5
Carbide Tipped								
Carbide Blade Material								
5	6"	1"	0.050"	Rigid	Tapered	Milwaukee	**54FH97**	5
5	9"	1"	0.050"	Rigid	Tapered	Milwaukee	**49EM19**	1
5	9"	1"	0.050"	Rigid	Tapered	Milwaukee	**54FH98**	5
5	12"	1"	0.050"	Rigid	Tapered	Milwaukee	**54FH99**	5
Steel Blade Material								
3	9"	1"	0.049"	Rigid	Straight, Tapered	Diablo	**422W45**	3



Carbide Tipped Steel Blade Material No. 49XZ67

Thin Metal Reciprocating Saw Blades

Reciprocating saw blades cut 1⁄8" and thinner metal. These blades are used with corded and cordless saws to aggressively and quickly cut through thin metal without grabbing the material and causing vibration.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
18	3 3⁄8"	5⁄16"	0.035"	Flexible	Straight	LENOX	**4XL07**	5
18	4"	3⁄4"	0.035"	Rigid	Straight	LENOX	**4YFY1**	25
18	6"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**2AC20**	5
18	6"	1"	0.035"	Rigid	Straight	LENOX	**4GE30**	5
18	6"	1"	0.042"	Rigid	Straight	Milwaukee	**6MR67**	25
18	6"	1"	0.042"	Rigid	Straight	Milwaukee	**4WP14**	5
18	6"	1"	0.042"	Rigid	Straight	Milwaukee	**6MPJ2**	50
18	8"	3⁄4"	0.035"	Rigid	Curved	LENOX	**4YFZ7**	25
18	8"	3⁄4"	0.035"	Rigid	Curved	LENOX	**1PMC1**	5
18	8"	3⁄4"	0.035"	Rigid	Straight	LENOX	**4YFX9**	25
18	8"	3⁄4"	0.035"	Rigid	Straight	LENOX	**4XL17**	5
18	9"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**1BV16**	5
18	9"	1"	0.035"	Rigid	Straight	LENOX	**4YFX1**	25
18	9"	1"	0.035"	Rigid	Straight	LENOX	**4GE34**	5
18	12"	3⁄4"	0.035"	Rigid	Straight	LENOX	**4YGA1**	5
18	12"	1"	0.035"	Flexible	Straight	Milwaukee	**5TJF0**	5
18	12"	1"	0.042"	Rigid	Straight	Milwaukee	**6MR80**	25
18	12"	1"	0.042"	Rigid	Straight	Milwaukee	**4WP17**	5
20/24	9"	1"	0.035"	Rigid	Curved, Straight	Diablo	**49YA01**	25
24	4"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**1BV14**	5
24	4"	3⁄4"	0.035"	Rigid	Curved	LENOX	**1PMB2**	5
24	4"	3⁄4"	0.035"	Rigid	Straight	LENOX	**21Y658**	5
24	4"	3⁄4"	0.050"	Flexible	Straight	Milwaukee	**2RFR4**	5
24	6"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**6MR65**	25
24	6"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**2AC21**	5
24	6"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**6MPH6**	50
24	6"	3⁄4"	0.035"	Rigid	Curved	LENOX	**4YFZ8**	25
24	6"	3⁄4"	0.035"	Rigid	Curved	LENOX	**1PMB6**	5
24	6"	3⁄4"	0.035"	Rigid	Tapered	LENOX	**4YFY5**	25
24	6"	3⁄4"	0.050"	Rigid	Straight	LENOX	**4XL14**	5
24	8"	3⁄4"	0.035"	Rigid	Curved	LENOX	**4YFZ9**	25
24	8"	3⁄4"	0.035"	Rigid	Straight	LENOX	**4YFZ1**	5
BIM-M42 Blade Material								
18	9"	3⁄4"	1.000"	Rigid	Straight	Westward	**24A579**	5
Steel Blade Material								
18	6"	1"	0.035"	Flexible	Straight	Milwaukee	**6MR71**	25
18	6"	1 3⁄16"	0.035"	Rigid	Straight	LENOX	**53DN93**	50
18	12"	3⁄4"	0.035"	Flexible	Straight	Milwaukee	**1BV36**	50
18	12"	3⁄4"	0.035"	Rigid	Straight	LENOX	**53DN91**	25
24	6"	1"	0.035"	Rigid	Straight	Milwaukee	**45L166**	5
24	12"	1"	0.035"	Rigid	Straight	Milwaukee	**45L168**	5
30	3 1⁄4"	5⁄16"	0.040"	Rigid	Straight	Milwaukee	**45L169**	5
Carbide Tipped								
Steel Blade Material								
20	6"	1"	0.039"	Rigid	Straight	Diablo	**49XZ67**	1
20	8"	1"	0.039"	Rigid	Straight	Diablo	**49XZ68**	1



Bi-Metal Tipped, Steel Blade Material No. 45L170

Drywall and Plaster Reciprocating Saw Blades

Drywall and plaster blades for corded and cordless reciprocating saws are built with widely-spaced teeth to prevent plaster and other particles from clogging the blade.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
5	12"	2 1⁄8"	0.200"	Rigid	Tapered	Milwaukee	**11C558**	1
6	4"	3⁄4"	0.050"	Flexible	Tapered	Milwaukee	**2RFP3**	5
6	5"	3⁄4"	0.050"	Rigid	Tapered	Milwaukee	**1BV08**	5
10	3 5⁄8"	5⁄16"	0.035"	Rigid	Tapered	Milwaukee	**1BV10**	5
14	4"	3⁄4"	0.050"	Flexible	Straight	Milwaukee	**2RFP7**	5
14	6"	3⁄4"	0.050"	Flexible	Straight	Milwaukee	**2RFP9**	5
Steel Blade Material								
6	2 1⁄2"	5⁄16"	0.040"	Rigid	Tapered	Milwaukee	**45L170**	1



Hacksaws

Cut pipe, profiles, and beams made of steel, cast iron, concrete and plastic with use of clamps. 110V No. 10E998 includes variable speed. Pneumatic version No. 10E999 includes a hose coupler and is ideal for cutting pipes where sparks may be an issue. Includes 2 blades, wrench, and side handle.

Description	Blade Stroke	Strokes per Minute	Pipe Cap.	Tool Weight (lb.)	Mfr. Model	Item No.
Hacksaws						
Hacksaw	2⅜"	100 to 350	24"	14.1 lb.	ASTXE 649	**10E998**
Hacksaw	2⅜"	330	24"	15.9	STS 325R	**10E999**

Length	Teeth per Inch	Item No.
Power Hacksaw Blades - HSS		
8"	8	**10F003**
8"	16	**10F004**
8"	24	**10F005**
12"	12	**10F007**
12"	16	**10F006**
16"	8	**10F009**
16"	16	**10F008**
21"	12	**10F010**
24"	14	**10F012**
30"	12	**10F013**
37"	12	**10F014**

Length	Teeth per Inch	Item No.
Power Hacksaw Blades - Tempered		
12"	16	**10F015**
15¾"	8	**10F017**
15¾"	12	**10F016**
24"	14	**10F018**
Power Hacksaw Blades - Boron		
13"	10	**10F019**
19¼"	17	**10F020**
Power Hacksaw Blades - Carbide		
12"	—	**10F021**
16"	—	**10F022**
20"	—	**10F023**
24"	—	**10F024**



Scroll Saws

Make accurate cuts while reducing vibration and noise. Tool-free blade clamps make changing blades easy. Electronic variable speed on each saw adjusts for various materials.

DeWalt—Unique double-parallel link-arm design. Table tilts 45° left and right. Front-mounted controls and multidirectional dust blower. Uses standard 5" blades.



Throat Depth	Blade Stroke	Cutting Cap.	Table Dimensions	No Load RPM	Brand	Mfr. Model	Item No.
20"	¾"	2"	16" x 23¾"	400 to 1750	DeWalt	DW788	**4GD67**
22⅜"	¾"	2"	12⁴³⁄₆₄" x 23⅜"	Not Rated	Jet	JWSS-22	**52HR91**





Laminate Trimmers

Spindle lock for fast bit changes and a ¼" collet capacity.

HP	Amps @ 120V	No Load RPM	Switch	Base Size (in.)	Includes	Tool Length (In)	Tool Weight (lb.)	Brand	Mfr. Model	Item No.
⅝	4.5	31,000	On/Off	4³⁄₁₆	Motor, Standard Base, Collet Wrench, Straight Edge	4¼	3.4	DeWalt	DWE6000	**30RV92**
⅝	4.5	31,000	On/Off	4³⁄₁₆	Motor, Standard Base, Collet Wrench, Straight Edge	4¼	3.4	Porter Cable	PCE6430	**30RV94**
5³⁄₆₄	5.6	16,000-35,000	On/Off	4³⁄₁₆	Motor, Standard Base, Collet Wrench, Straight Edge	4¼	3.4	Porter Cable	PCE6435	**30RV95**

Cut-Out Tools

Designed to cut holes in drywall, thin metal, or thin plywood. Engineered to withstand the most demanding conditions.

Drywall Spiral Saw—Easy to handle, with dual grip zones. Vents keep dust away from user.

Cut-Out Tools—Cut tough material quickly and accurately. No. 14G988 features "Slide and Bump" On/Off switch and tool-free depth adjustment. No. 5VC57 features keyless tool-free bit change and bump-off switch.





No Load RPM	Amps @ 120V	Includes	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
Drywall Spiral Saw							
30,000	5.5	RotoSaw Spiral Saw Tool, (1) Guidepoint Zip Bit, (1) Sabercut Zip Bit, (3) Collets: ⅛", ⁵⁄₃₂", and ¼"	8½"	2.5 lb.	Rotozip	SS355-10	**46U377**
Cut Out Tools							
32,000	5.0	(2) Bits, Wrench, ¼", ⅛" Collet	9⅞"	2.4 lb.	Makita	3706	**14G988**
30,000	5.0	Drywall Cutting Bit, ¼", ⅛" Collets	10"	3.2 lb.	DeWalt	DW660	**5VC57**

Dia.	Application	Item No.	Pkg. Qty.
Rotozip Cut-Out Tool Bits			
⅛"	For Cutting Drywall, Wood, Plastics, and Wall Tile	**53DM77**	1
⁵⁄₃₂"	For Cutting Underlayment	**2PPY7**	1
⁵⁄₃₂"	For Laminate Floor Cutting Bit	**53DM80**	1
⁵⁄₃₂"	For Cutting Up to 18 ga. Steel	**1PKW6**	1
⁵⁄₃₂"	For Cutting Ceramic Wall Tile, Cement Board, Stucco, and Plaster	**1PKW7**	1
¼"	Window and Door Cutouts	**4LE37**	1
¼"	For Cutting Cement Board, Stucco, and Plaster	**4LE34**	1
¼"	Floor Tile and Countertops	**35HX63**	1
¾"	For Tile Hole Cutting	**53DM79**	1
⅛"	For Cutting Drywall	**2PPY3**	2
⁵⁄₃₂"	Multi Purpose Cutting	**2PPY5**	2
⅛"	Cutting Wood and Fiberglass	**5JLT2**	4
⅛"	Tile Cut Outs	**5JLR9**	4
—	Cutting	**41HR17**	8
⅛"	Drywall Cut Outs Around Outlet Boxes and Framing	**5JLT3**	8
⁵⁄₃₂"	Acrylic, Composites, Fiberglass, Hardwood, Laminates, Lath, MDF, OSB, Plastic, Plywood, Siding, Softwood, Vinyl Siding, Wood	**53DM81**	10
⁵⁄₃₂"	For Cutting Drywall	**53DM78**	10
⅛"	Cutting Wood and Fiberglass	**5JLT1**	16
⅛"	Drywall Cut Outs Around Outlet Boxes and Framing	**5JLT0**	16
⅛"	For Cutting Drywall	**53DM83**	16
⅛"	For Cutting Drywall	**53DM76**	50
⅛"	For Cutting Drywall	**53DM84**	50

Description	Item No.	Pkg. Qty.
Rotozip Replacement & Service Parts		
Drill Chuck	**53DM74**	1
Collet Set	**53DM75**	1

Description	Dia.	Material	Item No.	Pkg. Qty.
Rotozip Diamond Hole Saws				
Diamond Hole Saw	1"	—	**5JLT5**	1
Diamond Hole Saw	1⅜"	—	**5JLT6**	1
Rotozip Accessories				
Direct Drive Cut-Off Attachment	—	—	**19L473**	1
Rotozip Cutting Wheels				
Abrasive Cut-Off Wheel	2½"	Aluminum Oxide	**19L474**	5

PORTER CABLE
BOSCH
DEWALT

Orbital Jigsaws

- T-Shank Blade Type



No. 45CR53



No. 48XY66

Length of Stroke	Strokes per Minute	Amps	Handle Design	Features	Tool Length	Tool Wt. (lb.)	Brand	Mfr. Model	Item No.
13/16"	0-3200	6.0	Top	Lock-On Button	9½"	5.4	Porter Cable	PCE345	**30RW07**
1"	500-3100	6.0	Top	Multi Directional Blade Clamp, Heavy Gauge Steel Footplate, Always on Dust Blower, Ambidextrous Lock on Button	9⅛"	5.3	Bosch	JS260	**6YHT1**
1"	500-3100	6.5	Top	Multi Directional Blade Clamp, Die Cast Foot with Steel Insert, on Board Bevel, Hex Key Storage, Adjustable Dust Blower, Ambidextrous Lock on Button	9⅞"	5.4	Bosch	JS365	**6YHT0**
1"	500-3100	7.0	Top	Ambidextrous Lock on Button, Die Cast Foot with Steel Insert, Multi Directional Blade Clamp, Adjustable Dust Blower	9⅞"	5.9	Bosch	JS470E	**6YHR9**
1"	800-3000	7.2	Top	Precision Double Roller System, Built In LED Light, Die Cast Footplate, Constant Response Circuitry, Multi Directional Blade Clamp, Aluminum Gearbox, Low Vibration Mechanism, Built In Dust Blower	9 1/16"	5.2	Bosch	JS572EK	**45CR53**
1"	800-3000	7.2	Barrel	Precision Double Roller System, Built In LED Light, Die Cast Footplate, Constant Response Circuitry, Multi Directional Blade Clamp, Aluminum Gearbox, Low Vibration Mechanism, Built In Dust Blower	9 1/16"	5.2	Bosch	JS572EBK	**48XY66**
1"	800-3500	7.0	Barrel	Large Die-Cast Aluminum Footplate, Ergonomic Body, Soft Grip Areas	7"	5.9	Bosch	JS470EB	**44J823**
1 1/32"	50-3100	6.5	Top	Dust Blower, Tool Free Bevel Adjust, Soft Start, Full Wave Electronic Speed Control,50/60Hz (Not designed to be use in USA)	250mm	6.0	DeWalt	DW331K-QS	**32ZU44**



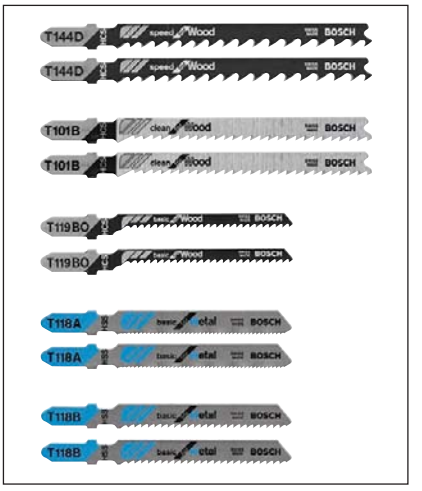
No. 4XD02

Teeth Per Inch	L	Mfr. Model	Item No.	Pkg. Qty.
For Wood Cutting				
Bi-Metal, T Shank Type				
5/6	4"	T144DF	**4WZ88**	5
8	3"	T211HF	**4WZ89**	5
10	4"	T101BF	**4WZ82**	5
Bi-Metal, U Shank Type				
5/6	4"	U144DF	**4XD02**	5
6	4"	U111DF	**4WZ93**	5
High Carbon Steel, T Shank Type				
5/6	4"	T244D	**1UM24**	5
5/6	4"	T101D100	**44J715**	100
6	4"	T101D	**1UM17**	5
6	4"	T144D	**1UM22**	5
6	6"	T344DP	**6YB24**	5
6	7"	T744D3	**3UWF5**	3
8	4"	T111C	**1UM18**	5
8	4 5/8"	T301CD	**44J760**	5
8/12	4½"	T234X3	**4WZ90**	3
10	4"	T101B	**1UM16**	5
10	4"	T101BR	**3UVY7**	5
10	4"	T101BR100	**44J714**	100
12	3"	T119BO	**1UM21**	5
12	4½"	T308B	**3DRP3**	5
20	3"	T101AO	**1UM15**	5
High Carbon Steel, U Shank Type				
8	3⅝"	U111C	**1UM28**	5
8/12	4¼"	U234X3	**4XD05**	3
10	3⅝"	U101B	**1UM27**	5
12	2¾"	U19BO	**1UM34**	5
20	2¾"	U101AO	**6YB25**	5
For Specialty Cutting				
Carbide, T Shank Type				
30 Grit	3¼"	T130RF1	**6YB18**	1
50 Grit	3¼"	T150RF1	**6YB21**	1
For Plastic Cutting				
High Speed Steel, T Shank Type				
14	4"	T101A	**1UM14**	5
For Nail Embedded Wood Cutting				
Bi-Metal, T Shank Type				
5/10	4¼"	T345XF	**44J775**	5
5/10	5"	T345XF3	**4WZ91**	3
10	4"	T111CF	**4WZ83**	5
Bi-Metal, U Shank Type				
5/10	5"	U345XF3	**4XD07**	3



No. 4WZ90

Teeth Per Inch	L	Mfr. Model	Item No.	Pkg. Qty.
10	4"	U111HF	**4WZ94**	5
Carbide, T Shank Type				
8	4 5/8"	T301CHM1	**6YB22**	1
For Mild Steel Cutting				
High Speed Steel, T Shank Type				
24	3"	T118AHM3	**44J728**	3
For Metal Cutting				
Bi-Metal, T Shank Type				
11/14	3⅝"	T118BF	**4WZ85**	5
14/18	3½"	T118EF	**4WZ86**	5
17/24	3⅝"	T118AF	**4WZ84**	5
21	3⅝"	T121AF3	**44J738**	3
36	3¼"	T118GFS	**3DRP4**	5
Bi-Metal, U Shank Type				
10/14	3⅛"	U118EF	**4WZ97**	5
11/14	3⅛"	U118BF	**4WZ96**	5
17/24	3⅛"	U118AF	**4WZ95**	5
36	2¾"	U118GF	**4WZ98**	5
Carbide, T Shank Type				
24	3¼"	T118AHM1	**6YB17**	1
High Speed Steel, T Shank Type				
8	2"	T127DF100	**44J747**	100
8	4"	T227D	**1UM23**	5
10/24	4"	T123X	**44J741**	5
10/24	4"	T123X3	**4WZ87**	3
11/14	2"	T118B100	**44J729**	100
11/14	3⅝"	T118B	**1UM20**	5
14	3"	T118EHM3	**44J736**	3
14	5¼"	T318B	**1UM26**	5
17/24	2"	T118A100	**44J725**	100
17/24	3⅝"	T118A	**1UM19**	5
17/24	3⅝"	T218A	**44J755**	2
24	5¼"	T318A	**1UM25**	5
30	2¼"	T121GF3	**44J740**	3
36	3⅝"	T118G	**3UVY2**	5
High Speed Steel, U Shank Type				
17/24	3⅛"	U118A	**1UM29**	5
For Masonry Cutting				
Carbide, T Shank Type				
6	4"	T141HM1	**6YB19**	1
6	5¼"	T341HM1	**6YB23**	1
Diamond, T Shank Type				
30 Grit	3¼"	T130DG	**5JLU0**	1



No. 45HR52

No. of Pieces	Includes	Mfr. Model	Item No.
Blade Sets			
T-Shank			
5	(5) Bimetal Blades, (3) Wood and (2) Metal Sizes	T500	**4WZ92**
10	(10) Blades	T5002	**45HR52**
21	(4) Mfr. No. T101B, T144DP, T101D, (3) Mfr. No. T119BO, T244D, T101AO	TW21HC	**1TEH5**
21	(5) Mfr. No. T101B, T144DP, T118A, (2) Mfr. No. T345XF, T123X, T141HM1	TC21HC	**1TEH6**
30	(10) Each Mfr. No. T101B, (5) Each Mfr. No. T101D, T118A, T118B,T144D, Clear Plastic Tube	T30C	**1TEH3**
30	(10) Each Mfr. No. T101B, T101D, T144D, Clear Plastic Tube	T30W	**1TEH4**
—	(2) 3" 12 TPI Jigsaw Blade Mfr. No. T119BO, 4" 6 TPI Jigsaw Blade Mfr.No. T144DP, (2) 4" 10 TPI Jigsaw Blade Mfr. No. T101B, (3) Progressor Wood Blade Mfr. No. T234X, (1) Progressor Metal Blade Mfr. No. T123X, (2) 3" 14 TPI Jigsaw Blade Mfr.No. T118B, (2)	T14CPSC	**3UVZ8**
U-Shank			
5	Mfr. No. U101B, U144CD, U19BO, U118A, U118B	U502A5	**6YB27**

Jigsaw Blades

BOSCH

- For more information on specific blade applications, see Grainger.com®

Bimetal—Ideal for demanding applications. Blades up to 10 teeth per inch are best for wood, particleboard, and plastics. Blades 14 teeth per inch and higher are best for metal and aluminum.

High Carbon Steel—Handle fast curve cuts, smooth cuts, and smooth curve cuts.

Carbide—Designed with carbide grit materials for abrasives, or carbide teeth for cutting stainless steel, ceramics, and fiberglass.

High Speed Steel—Fully hardened. Ideal for cutting metals and aluminum.

Blade Sets—Assortments of high carbon steel, high speed steel, and bimetal blades. No. 1TEH6 also includes carbide blade.

Progressor Tooth Design—Versatile tooth design is smaller at the top, larger at the bottom. Blades remain cooler and cut faster than high speed steel or bimetal blades.

DEWALT BOSCH PORTER-CABLE

Routers

Powerful tools ensure a quality finish in all materials.
Fast, accurate depth adjustment.


No. 3UB91


No. 3HA93


No. 6YHR8

HP	Amps	No Load RPM	Switch	Base Size (in.)	Includes	Tool Length (In)	Tool Weight (lb.)	Brand	Mfr. Model	Item No.
Compact Routers										
1¼	7	16,000-35,000	Rocker	1⁹⁄₁₆	LED Worklight	4⁹⁄₆₄	4.4 lb.	Bosch	GKF125CEPK	**446P33**
1¼	7	16,000-35,000	Rocker	1⁹⁄₁₆	Fixed Base,1/4 " Self-Releasing Collet Chuck, Collet Chuck Wrench	4⁹⁄₆₄	4.4	Bosch	GKF125CEN	**446P20**
1¼	7	16,000-27,000	Rocker	4	Standard Base, Wrench, Instruction Manual	8½	4.1	DeWalt	DWP611	**5NAJ8**
1¼	7	27,000	Rocker	4⅜"x5-3/4"	Standard Base, Plunge Base, Wrench, Instruction Manual, Carry Bag	9¼	6.2	Porter Cable	450PK	**5NAJ7**
1.25	7	16,000-27,000	Rocker	4⅜"x5-3/4"	Standard Base, Plunge Base, Wrench, Instruction Manual, Carry Bag, ¼" Collet	9.25	6.2	DeWalt	DWP611PK	**5NAJ9**
1.25	7	30,000	Rocker	4	Standard Base, Wrench, Instruction Manual	8.5	4.1	Porter Cable	450	**5NAJ6**
Mid-Size Routers										
1¾	11	24,500	Toggle	—	¼ and ½" Collets, Concentricity Gauge, 2 Wrenches, Micro Fine Depth Adjustment	10⅛	7.1	DeWalt	DW616	**3HA91**
1¾	11	27,500	Rocker	—	Fixed Base, ¼ and ½" Collets, 2 Wrenches	8⅝	8	Porter Cable	690LR	**3UB91**
1¾	11	27,500	Trigger	—	D-Handle, Fixed Base, ¼ and ½" Collets, 2 Wrenches	8⅝	9.25	Porter Cable	691	**6Z308**
1¾	11	27,500	Rocker	5¾	2 Handles, Fixed Base, Plunge Base, ¼ and ½" Collets, Collet Wrenches, Carrying Case	8⅝	12.5	Porter Cable	693LRPK	**2NDZ5**
2¼	12	8000-25,000	On/Off	6	¼" Collet Chuck, ½" Collet Chuck, 16mm Shaft Wrench, Collet Nut Wrench, Guide Adapter, Chip Shield, Fixed Base, T-Handle Hex Height Adjustment Wrench, Screws for Table Mounting	6	8.3	Bosch	1617EVS	**3TXE5**
2¼	12	8000-24,000	Toggle	—	Micro Fine Depth Adjustment, ¼ and ½" Collets, Variable Speed, Soft Start, Concentricity Gauge, Wrench and Large Hole Sub-base	10⅛	7.2	DeWalt	DW618	**3HA93**
2¼	12	8000-24,000	Toggle	—	Motor Pack (DW618M), Fixed Base (DW6184), Plunge Base (DW6182), ¼" and ½" Collets, Wrench, Large Hole Sub Vase, Vacuum Adapter, Kit Box	10⅛	7.2	DeWalt	DW618PK	**3HA94**
2¼	12	10,000-23,000	Dual Slide	—	Fixed Base, ¼ and ½" Collets, Collet Wrench, Carrying Case	13	9.0	Porter Cable	892	**2NER2**
2¼	12	10,000-23,000	Trigger	7	Fixed and Plunge Bases, ¼ and ½" Collets, Collet Wrench, Height Adjuster, Carrying Case	25	13.5	Porter Cable	895PK	**4YU17**
1.75	11	24,500	Toggle	6	Motor Pack, Fixed Base, Plunge Base, ¼" and ½" Collets, (2) Wrenches, Sub-base Concentricity Gauge, Vacuum Adapter, Kit Box	8	10	DeWalt	DW616PK	**3CA68**
2	10	8000-24,000	Trigger	—	Plunge, Variable Speed Control, Built-in Dust Extraction, Soft Start, Spindle Lock, ¼ and ½" Collets, Bushing and Vacuum Adapter, Wrench	10⁵⁄₁₆	9.0	DeWalt	DW621	**3MM54**
2.25	12	8000-24,000	Toggle	6	DW616M Motor Pack; DW6184 Fixed Base; DW6182 Plunge Base; ¼" and ½" Collets; Wrench; Large Hole Sub Base, Vacuum Adapter, Kit Box	8	10.1	DeWalt	DW618B3	**4DV45**
2.3	15	10,000-25,000	Trigger	Fixed 6"/ Plunge 6¹¹⁄₁₆	Motor Fixed Base #44J141, Plunge Base #44H143, ¼" Self Releasing Chuck #2610906283, ½" Self Releasing Chuck #2610906284, 16mm Shaft Wrench #2610991388, 24mm Collet Nut Wrench #2610992417	6¾	25	Bosch	MRC23EVSK	**6YHR8**
Production Routers										
3¼	15	10,000/13,000/16,000/19,000/21,000	Rocker	—	5 Speed, 2 Handles, Fixed Base, ½" Collet, Collet Wrenches	11	14.5	Porter Cable	7518	**2NDZ3**
3¼	15	21,000	Rocker	—	2 Handles, Fixed Base, ½" Collet, Collet Wrenches	11	15	Porter Cable	7519	**2NDZ4**
3	15	8000-22,000	Slide	—	Plunge, Variable Speed Control, Soft Start, Spindle Lock, ¼ and ½" Collets,Wrench	10⁵⁄₁₆	11.2	DeWalt	DW625	**6Y933**

CMT ORANGE TOOLS BOSCH freud WESTWARD ONSRUD ONSRUD CUTTER LP

Profile Router Bits

- For additional Router Bits see page 2297

Roundover No. 53DJ22



Flush Trim No. 9XUH4



Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	No. of Flutes	Brand	Item No.
Drawer and Lock						
2	⅞	2⅜	½	2	Cmt	**45DK94**
Flush Trim						
½	1	2½	¼	2	Bosch	**41HP95**
½	¾	2¼	¼	2	Cmt	**9XUH4**
½	2	4⅜	½	1	Freud	**53DJ37**
½	1	2¹³⁄₁₆	¼	1	Freud	**53DJ33**
½	1	2¹⁹⁄₃₂	¼	2	Westward	**16Y549**
½	1	2²³⁄₃₂	¼	2	Westward	**16Y531**
¼	1	2½	¼	2	Cmt	**22EC96**
¼	¾	2½	¼	1	Cmt	**22ED20**
¼	1	2⅜	¼	2	Westward	**16Y589**
¼	¼	1⁹⁄₁₆	¼	1	Westward	**16Y561**
⅜	½	2⅛	¼	2	Bosch	**41HP97**
⅜	1	2¹³⁄₁₆	¼	1	Freud	**53DJ31**
⅜	1	2¹⁹⁄₃₂	¼	2	Westward	**16Y538**
Hinge Mortise						
⅜	⁷⁄₁₆	2⅛	¼	2	Cmt	**22ED02**

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	No. of Flutes	Brand	Item No.
Rail and Stile						
1⅝	41⁄64	3	½	2	Bosch	**499K76**
Roundover						
1½	¾	2½	¼	2	Freud	**53DJ22**
1⅛	½	2³⁄₁₆	¼	2	Freud	**53DJ19**
¾	13⁄32	2⅛	¼	2	Westward	**16Y565**
⅞	½	2³⁄₁₆	¼	2	Freud	**53DJ18**
1	17⁄32	2¼	¼	2	Westward	**16Y536**
Straight						
½	¼	2⅛	¼	2	Bosch	**41HP94**
½	2½	4⅜	½	2	Cmt	**22EC81**
½	1¼	3¼	½	2	Cmt	**22EC71**
½	1	2⅜	¼	1	Freud	**53DJ40**
½	1	2⅛	¼	2	Freud	**53DH94**
½	1	2⁵⁄₁₆	¼	2	Westward	**16Y586**
¼	1	2½	¼	2	Bosch	**499K82**
¼	1	2⅜	¼	2	Cmt	**9XVG7**
¼	¾	2	¼	2	Cmt	**22ED30**

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	No. of Flutes	Brand	Item No.
¼	1	2½	¼	2	Freud	**53DH89**
¼	1	2⅜	¼	1	Onsrud	**6RRK6**
¼	¾	2⅝	¼	1	Onsrud	**6RRK8**
¼	¾	3¼	¼	1	Onsrud	**6RRK5**
¼	1¼	2⅝	¼	1	Onsrud	**6RRK2**
¼	¼	1½	¼	1	Onsrud	**6RRK9**
¼	1	2⁵⁄₁₆	¼	2	Westward	**16Y583**
¼	1	3¼	¼	2	Westward	**16Y634**
⅛	½	2	¼	2	Bosch	**499K80**
⅛	⁷⁄₁₆	2	¼	1	Bosch	**499K67**
⅛	⅜	3¼	¼	1	Onsrud	**6RRK7**
⅛	½	2	¼	1	Onsrud	**6RRK1**
³⁄₁₆	¾	3¼	¼	1	Onsrud	**6RRL0**
¾	1½	3	½	2	Freud	**53DJ01**
⅜	1	3³⁄₃₂	⅜	1	Bosch	**499K70**
31⁄64	¾	2¼	¼	2	Bosch	**499K65**
V-Groove						
¾	⅜	2½	½	2	Cmt	**22EC75**

Metal-Cutting Circular Saws

- 120VAC
- Left-side blade makes it easier to see sight lines when the saw is held with the right hand
- Right-side blade positions the blade away from the user's body when the saw is held in the right hand

SKILSAW Slugger by FEIN Milwaukee

Metal-cutting circular saws are used in metal fabrication and autobody shops to cut metal when precision is required. They rotate slower and have more torque than general purpose saws to make cleaner, faster cuts.


No. 48KR88


No. 34TE66


No. 3WE48

Blade Dia.	Current	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Handle Type	Includes	Brand	Item No.
Left Blade Side									
Worm Drive									
8"	15A	2¾"	2¾"	0°	⅝"	Worm Drive Style	42T Diablo Cermet Blade, Multi-Function Wrench	Skilsaw	**48KR88**
Right Blade Side									
Direct Drive									
7¼"	12A	1⁹⁄₁₆"	2½"	45° Right	¾"	Soft Grip	Saw, Mild Steel Saw Blade, Impact Resistant Case, Wrench, Guide Plate, Safety Goggles, Ear Protection	Slugger	**34TE66**
8"	15A	2⁹⁄₁₆"	—	0°	⅝"	Tilt	Hex Blade Wrench, Carrying Case, Premium Cermet Tipped Blade	Milwaukee	**3WE48**
Worm Drive									
9"	15A	2⅜"	3½"	45° Right	1"	Soft Grip	Saw, Mild Steel Saw Blade, Impact Resistant Case, Wrench, Guide Plate, Safety Goggles, Ear Protection	Slugger	**34TE67**


No. 22DL18


No. 4A155

Left Blade General Purpose Circular Saws

▪ 15A ▪ 120VAC

These general purpose circular saws are built with a left-side blade that makes it easier to see sight lines when the saw is held with the right hand. **Direct drive** saws have motors that transfer power directly from the rotation of the motor to rotation of the wheel which turns the blade. They are designed with the motor on the side of the saw and are wider but lighter than worm drive saws. **Worm drive** saws are constructed with the motor directly behind the saw and are more powerul than direct drive saws. They have a fully-enclosed gear system that rotates the blade, and narrow profile to reach confined spaces.

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Includes	Features	Item No.
Worm Drive							
7 ¼ in	1 15/16 in	2 3/8 in	0° to 53° Left	5/8 in	Carbide Blade, Locking Plug, Multi-Function Wrench	(6) Function Wrench, Anti-Snag Magnesium Lower Guard, Blade Lock Reposition, Integrated Saw Hook Mount, Soft Grip	**22DL18**
7 ¼ in	1 15/16 in	2 3/8 in	0° to 53° Left	Diamond	24T Diablo(R) Carbide Blade, Multi-Function Blade Wrench	Anti-Snag Lower Guard, Cut-Ready Depth System, Dual Field(TM) Motor, Integrated Saw Hook, Lighter Magnesium Construction, Locking Plug	**38ZD54**
7 ¼ in	1 15/16 in	2 3/8 in	0° to 53° Left	Diamond	40T Diablo Carbide Blade, Multi-Function Wrench	Dual Field Motor, Durable Die-Cast Magnesium Foot, Lightweight Magnesium Construction	**48KR86**
Direct Drive							
7 ¼ in	1 7/8 in	2 7/16 in	0° to 56° Left	5/8 in	24 Tooth Carbide Blade, Multi-Function Wrench	Lightweight Design, Powerful Dual Field Motor, Worm Drive Style	**407M16**
Worm Drive							
7 ¼ in	2 in	2 7/16 in	0° to 51° Left	Diamond	Blade Wrench, Carbide Blade	Aluminium Construction, Dual Field(TM) Motor, Locking Plug, Twist Plug NEMA L5-20P	**38ZD52**
7 ¼ in	2 in	2 7/16 in	0° to 51° Left	Diamond	24T Diablo Carbide Blade, Blade Wrench Stored in Foot	Dual-Field Motor, Lightweight Aluminum Construction	**48KR85**
8 ¼ in	2 ¼ in	2 7/8 in	0° to 60° Left	Diamond	(24) Tooth Carbide Blade, Blade Wrench	60° Bevel, Dual Field(TM) Motor	**4A155**
10 ¼ in	2 ¾ in	3 11/16 in	0° to 51° Left	Diamond	40T Diablo(R) Carbide Blade	Dual Field(TM) Motor, Lightweight Magnesium Construction	**39CH52**
10 ¼ in	2 ¾ in	3 11/16 in	0° to 51° Left	Diamond	40T Blade, Blade Wrench	Dual Field(TM) Motor, Lightweight Magnesium	**48XY45**


No. 38ZD50


No. 24T877


No. 48XY42

Right-Blade General Purpose Circular Saws

▪ Direct drive ▪ 7 ¼" blade dia. ▪ 5/8" arbor size ▪ 120VAC

These corded circular saws are built with the blade mounted on the right side of the motor so the blade is positioned away from the user's body when held in the right hand.

Current	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Includes	Features	Brand	Item No.
Direct Drive								
Concrete, Masonry								
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	1½ in Vacuum Hose Adapter, 2½ in Vacuum Hose Adapter, 4T HardieBlade, 8 ft Vacuum Hose with Nylon Sleeve, Blade Wrench	Built In Dust Collection System, Dual Field(TM) Motor, No-Mar Sleeve	Skilsaw	**451G49**
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	1½ in Vacuum Hose Adapter, 2½ in Vacuum Hose Adapter, 4T Polycrystalline Diamond Tipped Fiber Cement Blade, 8 ft Vacuum Hose with Nylon Sleeve, Blade Wrench	Built In Dust Collection System, Dual Field(TM) Motor, No-Mar Sleeve	Skilsaw	**48XY44**
General Purpose								
13 A	1 15/16 in	2 7/16 in	0° to 51° Right	5/8 in	Blade Wrench, Carbide Blade	Anti-Snag Lower Guard, Rear-Lever Depth Adjustment, Safety Lock	Skil	**38ZD49**
14 A	1 15/16 in	2 7/16 in	0° to 51° Right	5/8 in	Blade Wrench, Carbide Blade	Anti-Snag Lower Guard, Safety Lock, Two-Point Line of Sight	Skil	**38ZD50**
15 A	1 15/16 in	2 7/16 in	0° to 51° Right	5/8 in	Carrying Bag	Anti-Snag Lower Guard, Laser Outline Guide, On-Tool Wrench Storage, Safety Lock	Skil	**38ZD51**
15 A	2 in	2 9/16 in	0° to 57° Right	5/8 in	Blade Wrench, Instruction Manual, Carbide Tipped 7¼ in Circular Saw Blade	Electric Brake Stops The Blade After Trigger is Released	DeWalt	**24T877**
15 A	2 in	2 9/16 in	0° to 57° Right	5/8 in	Carbide Tipped 7¼ in Blade, Blade Wrench, Instruction User Manual	15A Motor, Dust Blower, On-board Blade Wrench, Tough Cord	DeWalt	**38A922**
Wood								
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	24T Diablo Carbide Blade, Multi-Function Wrench	All-Magnesium Saw, Built In Dust Blower, Dual Field(TM) Motor	Skilsaw	**48KR84**
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	24T Diablo Carbide Blade, Multi-Function Wrench	All-Magnesium Saw, Built In Dust Blower, Dual Field(TM) Motor, Electric Brake	Skilsaw	**451G48**
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	Blade Wrench	Built In Dust Blower, Dual Field(TM) Motor, Lightweight Motor Housing	Skilsaw	**48XY42**
15 A	1 7/8 in	2 7/16 in	0° to 56° Right	5/8 in	Blade Wrench	Accessible Brushes, Built In Dust Blower, Dual Field(TM) Motor, Electric Brake, Magnesium Housing	Skilsaw	**48XY43**


No. 30RW22


No. 10D912


No. 54XJ28


No. 19M490

Corded Miter Saws

These saws make straight, mitered, beveled, and compound cuts on materials like wood and plastic. They plug into a 120VAC power source and are generally more powerful than cordless saws. All are sliding except No. 19M490 is fixed.

Blade Dia.	Arbor Size	Slide	No Load RPM	Amps	Bevel Capacity	Miter Capacity	Crosscut @ 45° H	Crosscut @ 45° W	Crosscut @ 90° H	Crosscut @ 90° W	Brand	Mfr. Model	Item No.
8 ½ in	5/8 in	Yes	5600	12.0	-2° to 47°	0° to 52° L, 0° to 60° R	1½"	8"	2"	8"	Bosch	CM8S	**35KF89**
10 in	5/8 in, 1 in	No	5000	15.0	3° to 48° L; R	0° to 50° L, 0° to 50° R	3½"	4 13/64"	4½"	6"	DeWalt	DWS713	**55AC79**
10 in	5/8 in	Yes	4800	15.0	0° to 47° L; R	52° L, 60° R	4"	8"	4"	12"	Bosch	CM10GD	**30RW22**
12 in	5/8 in, 1 in	Yes	3800	15.0	0° to 49° L; R	50° to 60°	4½"	9½"	6¾"	13¾"	DeWalt	DWS780	**10D912**
12 in	5/8 in, 1 in	No	4000	15.0	3° to 48° L; R	0° to 50° L, 0° to 50° R	3⅝"	5½"	5½"	8"	DeWalt	DWS715	**55AC76**
12 in	5/8 in, 1 in	No	3800	15.0	0° to 48° L; R	0° to 50° L, 0° to 50° R	3 39/64"	5½"	6½"	8"	DeWalt	DWS716	**55AC77**
12 in	5/8 in, 1 in	No	3800	15.0	0° to 48° L; R	0° to 50° L, 0° to 50° R	3 39/64"	5½"	6½"	8"	DeWalt	DWS716XPS	**55AC78**
12 in	1 in	Yes	3800	15.0	0° to 47° L; R	52° L, 60° R	6½"	14"	6½"	14"	Bosch	060166501C	**6DMZ4**
12 in	1 in	Yes	3200	15.0	0° to 48° L; R	0° to 60° L; R	10½"	3⅝"	15"	3⅝"	Makita	LS1219L	**54XJ28**
12 in	1 in	Yes	3200	15.0	0° to 48° L; R	0° to 60° L; R	10½"	3⅝"	15"	3⅝"	Makita	LS1219LX	**54XJ29**
12 in	5/8 in	No	4500	15.0	0° to 45°	47° L; R	4" x 4" or 2" x 8"	2" x 8"	4" x 4"	2" x 8"	Skil	3821-01	**19M490**



No. 25AX01



Folding Stand
No. 490L16

Dayton BOSCH DEWALT SawStop

Portable Table Saws

- 120VAC



Benchtop
No. 10K084

Stand Type	Max. Blade Speed	Bevel Angle Range	Max. Cut Width Right of Blade	Max. Cutting Depth @ 0 Deg.	Current	Brand	Item No.
Rolling Stand							
Cabinet	4000 RPM	0° to 45° Left	30½"	3⅛"	14A	Sawstop	**46AC62**
Cabinet	4000 RPM	0° to 45° Left	36½"	3⅛"	14A	Sawstop	**46AC61**
Cabinet	4000 RPM	0° to 45° Left	52½"	3⅛"	14A	Sawstop	**46AC60**
Rolling	3650 RPM	-2° Left to 47° Right	25"	2½"	15A	Bosch	**2LDT4**
Rolling	4800 RPM	-2° Left to 47° Right	24"	2¼"	15A	DeWalt	**25AX01**
Rolling	5000 RPM	-1° to 46° Left	30½"	2¼"	15A	Skilsaw	**451G45**
Folding/ Rolling	4000 RPM	-1° to 46°	25½"	3⅛"	15A	Sawstop	**55HF84**
Folding Stand							
Folding	4800 RPM	60° Left to 45° Right	32½"	2¼"	15A	DeWalt	**490L16**
Rolling	3550 RPM	0° to 45° Left	30"	2⅛"	15A/7.5A	Dayton	**48WE85** *
Benchtop							
Folding	5000 RPM	-2° Left to 47° Right	18"	2¼"	15A	Bosch	**10K084**
Fixed	5000 RPM	0° to 45° Left	25½"	2¼"	15A	Dayton	**499F73** *

**** Saw does not have automatic safety blade retraction.***



No. 36HZ65

Dayton BAILEIGH JET

Standard Cabinet Table Saws

These table saws have a height-adjustable circular blade that's mounted below the table to make precise cross, bevel, and rip cuts. Built with extended surfaces to support large workpieces and sheet goods, these saws provide more precise cuts and control than miter saws and portable table saws. They're plugged into a wired power source and not intended to be moved.

Arbor Size	Max. Blade Speed	Bevel Angle Range	Blade Tilt	Max. Cut Width Right of Blade	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Voltage	Current	Brand	Item No.
10 in Blade Dia.										
⅝ in	3,450 RPM	0° to 45° Left	Right	50 in	3 in	2 ⅛ in	240V AC	16A	Dayton	**49G995**
	3,850 RPM	45° Left to 45° Right	Right	50 in	2 ³⁄₁₆ in	3 ⅛ in	220V AC	12A	Baileigh Industrial	**36HZ62**
	4,300 RPM	0° to 45° Left	Left	50 in	2 ⅛ in	3 in	230V AC	14.5A	Jet	**42W908**
12 in Blade Dia.										
⅝ in, 1 in	3,450 RPM	0° to 45° Left	Right	50 in	4 in	2 ¾ in	240V AC	16A	Dayton	**49G996**
1 in	3,600 RPM	45° Left to 45° Right	Left	52 in	2 ¾ in	4 in	220V AC	28A	Baileigh Industrial	**36HZ65** *

**** Saw has automatic blade safety retraction.***



No. 46AC48

SawStop

Cabinet Table Saws with Automatic Safety Blade Retraction

- 10" blade dia.
- ⅝" arbor size
- Max. blade speed: 4000 rpm
- Bevel angle range: 0° to 45° left
- 3 ⅛" max. cutting depth at 0°
- 2 ¼" max. cutting depth at 45°

Cabinet table saws have a safety feature that automatically retracts the saw blade when any part of the person's body, such as hands or arms, touches the blade. They have an extended surface on both sides of the blade to support large workpieces. Saws are plugged into wired power source and are not intended to be moved.

Max. Cut Width Right of Blade	Voltage	Current	Item No.
30"	120VAC	14A	**46AC46**
	230VAC	13A	**46AC43**
36"	120VAC	14A	**46AC45**
	230VAC	13A	**46AC42**
36½"	230VAC	12A	**46AC51**
	230VAC	13A	**46AC53**
	230VAC	17.8A	**46AC56**
	230VAC	19.7A	**46AC50**
	480VAC	5.8A	**46AC59**
	480VAC	9A	**46AC57**
52"	120VAC	14A	**46AC44**
	230VAC	13A	**46AC41**
52½"	230VAC	12A	**46AC49**
	230VAC	13A	**46AC52**
	230VAC	17.8A	**46AC54**
	230VAC	19.7A	**46AC48**
	480VAC	5.8A	**46AC58**
	480VAC	9A	**46AC55**



Panel Saw
No. 3EB50



Panel Saw & Router Combo
No. 34C059



No. 3EB50

SAFETY SPEED MANUFACTURING Milwaukee

Corded Panel Saws

Cutting Direction	Cutting Height	Overall Height	Blade Dia.	Cutting Thickness	Arbor Size	Current	Brand	Item No.
Panel Saw & Router Combo								
Horizontal, Vertical	62 in	83 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C059**
	62 in	87 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**31FT75**
Panel Saws								
Horizontal, Vertical	50 in	70 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C050**
	62 in	92 in	8 in	1 ¾ in	⅝ in	11A/15A	Safety Speed	**38W401**
	64 in	90 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**34C053**
	64 in	90 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C051**
	74 in	95 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C052**
	74 in	98 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**34C054**
Vertical	50 in	70 in	8 ¼ in	1 ¾ in	⅝ in	15A	Milwaukee	**3EB50**



Carbide Tipped for Combination Cutting
No. 46AC67



Carbide Tipped for Framing
No. 490R88



Carbide Tipped for Ripping
No. 52XF73

Wood-Cutting Circular Saw Blades

These saw blades make rip cuts, cross cuts, miter cuts, and combination cuts in clean wood in construction, woodworking, and carpentry applications.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Combination Cutting									
Aluminum, Non-Ferrous Metals, Particle Board, Plywood									
10"	40	20°	0.110"	5/8"	6000 RPM	No	0.098"	DeWalt	**14K254**
Aluminum, Non-Ferrous Metals, Wood									
8"	60	10°	0.118"	5/8"	8000 RPM	No	0.118"	Safety Speed	**31FV08**
Plywood, Wood									
10"	40	15°	0.098"	5/8"	8000 RPM	Yes	0.071"	Diablo	**52XF74**
12"	44	15°	0.098"	1"	6000 RPM	Yes	0.071"	Diablo	**52XF79**
12"	60	15°	0.118"	1"	6000 RPM	No	0.071"	Diablo	**52XF80**
Wood									
6½"	24	18°	0.059"	5/8"	10,000 RPM	Yes	0.039"	Diablo	**53WC01**
6½"	40	15°	0.059"	5/8"	12,500 RPM	Yes	0.039"	Diablo	**52XF64**
7¼"	24	18°	0.071"	5/8"	7000 RPM	Yes	0.047"	Westward	**24EL55**
7¼"	40	15°	0.059"	5/8"	10,000 RPM	Yes	0.040"	Diablo	**52XF68**
10"	40	10°	0.070"	5/8"	7000 RPM	No	0.070"	Oldham	**6WB65**
10"	40	10°	0.125"	5/8"	4000 RPM	No	0.078"	Sawstop	**46AC86**
10"	40	10°	0.125"	5/8"	4000 RPM	No	0.087"	Sawstop	**46AC67**
10"	40	15°	0.095"	5/8"	7000 RPM	No	0.071"	DeWalt	**4LK58**
10"	50	15°	0.098"	5/8"	6000 RPM	No	0.071"	DeWalt	**1CRB3**
10"	60	10°	0.125"	5/8"	4000 RPM	No	0.078"	Sawstop	**46AC85**
10"	80	10°	0.125"	5/8"	4000 RPM	No	0.094"	Sawstop	**46AC84**
10¼"	40	18°	0.087"	5/8"	7000 RPM	Yes	0.071"	Diablo	**53WC03**
12"	32	-5°	0.095"	1"	7000 RPM	No	0.069"	DeWalt	**3MF72**
12"	32/80	5°	0.095"	1"	7000 RPM	No	0.069", 0.071"	DeWalt	**6RA81**
12"	48	10°	0.110"	1"	4800 RPM	No	0.087"	DeWalt	**5PGC1**
12"	60	18°	0.095"	1"	4200 RPM	No	0.065"	Westward	**24EM02**
14"	42	15°	0.165"	1"	4000 RPM	No	0.118"	Diablo	**52XF85**
14"	48	10°	0.110"	1"	4800 RPM	No	0.087"	DeWalt	**5PGC2**
Carbide Tipped for Crosscutting									
Aluminum, Non-Ferrous Metals, Particle Board, Plywood									
12"	96	-5°	0.110"	5/8"	4800 RPM	No	0.098"	DeWalt	**14K252**
Plywood, Wood									
7¼"	60	10°	0.059"	5/8"	10,000 RPM	Yes	0.040"	Diablo	**52XF70**
Wood									
7¼"	60	15°	0.059"	5/8"	10,000 RPM	Yes	0.059"	Diablo	**53WC02**
7¼"	60	15°	0.071"	5/8"	7000 RPM	Yes	0.047"	Westward	**24EL97**
10"	60	7°	0.098"	5/8"	6000 RPM	No	0.071"	DeWalt	**1CRB4**
14"	100	-5°	0.110"	1"	3800 RPM	No	0.087"	DeWalt	**5PGA9**
Carbide Tipped for Finishing									
Plywood, Wood									
7¼"	40	15°	0.059"	5/8"	10,000 RPM	Yes	0.040"	Diablo	**52XF69**
8¼"	40	15°	0.094"	5/8"	9000 RPM	Yes	0.063"	Diablo	**52XF72**
10"	60	15°	0.098"	5/8"	6000 RPM	Yes	0.071"	Diablo	**52XF76**
12"	80	15°	0.118"	1"	5000 RPM	No	0.087"	Diablo	**52XF81**
12"	100	-5°	0.106"	1"	4800 RPM	No	0.079"	DeWalt	**42W440**
12"	100	7°	0.098"	1"	5000 RPM	No	0.071"	Diablo	**52XF82**
14"	84	15°	0.118"	1"	5000 RPM	No	0.087"	Diablo	**52XF83**
Wood									
6½"	100	18°	0.063"	1"	10,000 RPM	Yes	1.050"	Milwaukee	**490R74**
7¼"	60	15°	0.063"	5/8"	8000 RPM	Yes	1.050"	Milwaukee	**490R77**
10"	60	5°	0.095"	5/8"	7000 RPM	No	0.071"	DeWalt	**3MF71**
10"	60	7°	0.098"	5/8"	6000 RPM	No	0.071"	DeWalt	**1CRB5**
10"	80	15°	0.098"	5/8"	6000 RPM	Yes	0.071"	Diablo	**52XF77**
10"	90	10°	0.087"	5/8"	6000 RPM	Yes	0.040"	Diablo	**52XF78**
12"	80	-5°	0.106"	1"	4800 RPM	No	0.079"	DeWalt	**1CRB7**
12"	80	0°	0.110"	1"	6000 RPM	No	0.087"	DeWalt	**5PGD0**
12"	80	5°	0.095"	1"	7000 RPM	No	0.071"	DeWalt	**3MF73**
Carbide Tipped for Framing									
6½"	24	18°	0.102"	25/64"	10,000 RPM	Yes	1.050"	Milwaukee	**490R73**
7¼"	24	15°	0.059"	5/8"	10,000 RPM	Yes	0.040"	Diablo	**52XF65**
7¼"	24	15°	0.095"	5/8"	10,000 RPM	Yes	0.040"	Diablo	**52XF67**
7¼"	24	18°	0.102"	25/64"	8000 RPM	Yes	1.050"	Milwaukee	**490R75**
10¼"	28	18°	0.102"	5/8"	7000 RPM	Yes	1.050"	Milwaukee	**490R88**
16 5/16"	60	22°	0.114"	1"	4000 RPM	No	0.079"	Diablo	**52XF84**
Carbide Tipped for Plywood									
Plywood, Wood									
12"	60	-5°	0.106"	1"	4800 RPM	No	0.079"	DeWalt	**1CRB6**
Wood									
12"	60	0°	0.095"	1"	7000 RPM	No	0.065"	DeWalt	**3LA73**
Carbide Tipped for Ripping									
Plywood, Wood									
10"	24	15°	0.098"	5/8"	8000 RPM	Yes	0.071"	Diablo	**52XF73**
Wood									
10"	24	15°	0.095"	5/8"	7000 RPM	No	0.069"	DeWalt	**4LK57**
10"	40	20°	0.098"	5/8"	6000 RPM	No	0.071"	DeWalt	**1CRB2**
12"	40	10°	0.110"	1"	4800 RPM	No	0.087"	DeWalt	**5PGC5**
Cermet Tipped for Solid Stock									
Ferrous Metals, Stainless Steel, Steel									
10"	50	0°	0.083"	1"	3000 RPM	No	0.071"	Diablo	**52XF50**



Carbide Tipped for Solid Stock
No. 21VJ67



Carbide Tipped for Thick Metal
No. 3BE14



Carbide Tipped for Thin Metal
No. 53WC04

Steel and General Metal-Cutting Circular Saw Blades

These saw blades are used to cut though steel and mild-steel alloys.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Ferrous Metals, Steel									
6½"	48	1.5°	0.061"	5/8"	4200 RPM	No	0.047"	DeWalt	**30HJ81**
7¼"	48	1.5°	0.077"	5/8"	4000 RPM	No	0.062"	DeWalt	**30HJ83**
8"	48	1.5°	0.077"	5/8"	4000 RPM	No	0.062"	DeWalt	**30HJ88**
12"	60	1.5°	0.091"	1"	1800 RPM	No	0.076"	DeWalt	**30HJ69**
12"	80	1.5°	0.091"	1"	1800 RPM	No	0.076"	DeWalt	**30HJ72**
14"	66	1.5°	0.091"	1"	1800 RPM	No	0.076"	DeWalt	**30HJ74**
14"	90	1.5°	0.091"	1"	1800 RPM	No	0.076"	DeWalt	**30HJ73**
Steel									
14"	66	0°	0.087"	1"	1300 RPM	No		Fein	**21VJ67**
Carbide Tipped for Solid Stock, Thick Metal									
Ferrous Metals, Steel									
4 3/8"	24	4°	0.063"	3/8"	1700 RPM	No	0.063"	Bn Products Usa	**10H747**
Carbide Tipped for Thick Metal									
Ferrous Metals, Steel									
6½"	48	2°	0.071"	5/8"	11,000 RPM	Yes	0.051"	Diablo	**52XF56**
7¼"	38	2°	0.075"	5/8"	5600 RPM	Yes	0.087"	Diablo	**52XF58**
8"	42	0°	0.073"	5/8"	5000 RPM	No	0.073"	Milwaukee	**3BE14**
Carbide Tipped for Thin Metal									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7¼"	70	-5°	0.071"	5/8"	5800 RPM	Yes	0.087"	Diablo	**53WC04**
12"	60	10°	0.087"	1"	1800 RPM	No	0.071"	Westward	**24EM31**
14"	70	10°	0.094"	1"	1600 RPM	No	0.079"	Westward	**24EM35**
14"	90	10°	0.094"	1"	1600 RPM	No	0.079"	Westward	**24EM33**
Ferrous Metals, Steel									
5 3/8"	30	0°	0.063"	25/32"	4500 RPM	No	0.050"	Milwaukee	**6AWL0**
7¼"	56	2°	0.102"	5/8"	5600 RPM	Yes	0.087"	Diablo	**52XF60**
8"	50	0°	0.073"	5/8"	5000 RPM	No	0.073"	Milwaukee	**3XU98**



Carbide Tipped for Solid Stock
No. 30HJ76



Cement Tipped for Thick Metal
No. 52XF53

Stainless Steel-Cutting Circular Saw Blades

These saw blades have a stabilized plate and carbide-tipped teeth for cutting stainless steel without wearing down and dulling blade teeth.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7¼"	48	10°	0.078"	¾"	5800 RPM	No	0.250"	Slugger	**34NL92**
Stainless Steel									
5½"	40	10°	0.060"	25/32"	4200 RPM	No	0.044"	DeWalt	**30HJ85**
7¼"	48	10°	0.079"	5/8"	4000 RPM	No	0.062"	DeWalt	**30HJ75**
12"	80	10°	0.085"	1"	1800 RPM	No	0.068"	DeWalt	**30HJ71**
14"	90	10°	0.069"	1"	1800 RPM	No	0.068"	DeWalt	**30HJ76**
Carbide Tipped for Stainless Steel / Carbide									
Stainless Steel									
14"	90	10°	0.094"	1"	1300 RPM	No	—	Fein	**21VJ69**
Carbide Tipped for Thin Metal									
9"	80	10°	0.078"	1"	3380 RPM	No	0.079"	Fein	**21VJ41**
Carbide Tipped for Thin Steel / Carbide									
14"	90	10°	0.094"	1"	1300 RPM	No	—	Fein	**21VJ70**
Cermet Tipped for Ferrous Metals, Stainless Steel, Steel									
8"	42	0°	0.075"	5/8"	4300 RPM	No	0.063"	Diablo	**52XF48**
9"	46	0°	0.075"	1"	3600 RPM	No	0.071"	Diablo	**52XF49**
Cermet Tipped for Thick Metal									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Stainless Steel, Steel									
7¼"	48	2°	0.075"	5/8"	5800 RPM	Yes	0.063"	Diablo	**54YR17**
Ferrous Metals, Stainless Steel, Steel									
12"	60	0°	0.083"	1"	1800 RPM	No	0.071"	Diablo	**52XF51**
14"	72	0°	0.083"	1"	1800 RPM	No	0.071"	Diablo	**52XF53**
Cermet Tipped for Thin Metal									
Ferrous Metals, Stainless Steel, Steel									
12"	80	0°	0.083"	1"	1800 RPM	No	0.071"	Diablo	**52XF52**
14"	90	0°	0.083"	1"	1800 RPM	No	0.071"	Diablo	**52XF54**



Carbide Tipped for Solid Stock
No. 34NL91



Carbide Tipped for Thick Metal
No. 1XEL6



Metal Tipped for Soild Stock
No. 4KX53

Aluminum & Soft Metal-Cutting Circular Saw Blades

These blades cut through aluminum, brass, copper, and other soft metals.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7¼"	54	-5°	0.078"	25/32"	5800 RPM	No	0.375"	Slugger	**34NL91**
Aluminum, Non-Ferrous Metals									
5⅜"	30	3°	0.059"	25/32"	7000 RPM	No	0.039"	DeWalt	**4LF42**
5½"	30	3°	0.059"	⅝"	7000 RPM	No	0.038"	DeWalt	**30HJ79**
6½"	36	3°	0.059"	⅝"	7000 RPM	No	0.039"	DeWalt	**5VC81**
7¼"	48	-5°	0.083"	⅝"	4000 RPM	No	0.062"	DeWalt	**30HJ80**
7¼"	60	-5°	0.083"	⅝"	4000 RPM	No	0.062"	DeWalt	**30HJ77**
9"	48	10°	0.086"	1"	3380 RPM	No	0.087"	Fein	**21VJ42**
10"	80	-5°	0.110"	⅝"	6000 RPM	No	0.098"	DeWalt	**14K257**
12"	80	-5°	0.110"	1"	4800 RPM	No	0.087"	DeWalt	**5PGC7**
14"	100	-5°	0.126"	1"	4000 RPM	No	0.098"	DeWalt	**30HJ90**
Aluminum, Non-Ferrous Metals, Plastic									
10"	80	-5°	0.098"	⅝"	6000 RPM	No	0.071"	DeWalt	**4WLT3**
Carbide Tipped for Thick Metal									
Aluminum, Brass, Copper, Fiberglass, Non-Ferrous Metals, Plastic									
10"	80	-5°	0.094"	⅝"	7000 RPM	No	0.071"	Diablo	**52XF61**
12"	96	-5°	0.091"	1"	7000 RPM	No	0.071"	Diablo	**52XF62**
Aluminum, Brass, Copper, Non-Ferrous Metals									
8"	60	0°	0.073"	⅝"	5000 RPM	No	0.059"	Milwaukee	**1XEL6**
Aluminum, Non-Ferrous Metals									
7¼"	38	2°	0.083"	¾"	5800 RPM	No	0.087"	Diablo	**53WC06**
14"	100	-7°	0.142"	1"	5000 RPM	No	0.118"	Diablo	**52XF86**
Carbide Tipped for Thin Metal									
6½"	36	3°	0.071"	⅝"	8000 RPM	No	0.047"	Westward	**24EM37**
8"	64	-5°	0.083"	⅝"	7000 RPM	No	0.063"	Diablo	**53WC05**
Aluminum, Non-Ferrous Metals, Plastic									
10"	80	-5°	0.110"	⅝"	7000 RPM	No	0.087"	Westward	**24EL75**
12"	80	-5°	0.110"	1"	6500 RPM	No	0.087"	Westward	**24EM05**
Metal Tipped for Solid Stock									
Aluminum, Non-Ferrous Metals									
7¼"	68	15°	0.086"	⅝"	7000 RPM	Yes	0.050"	DeWalt	**4KX53**



Carbide Tipped for Combination Cutting
No. 4YK26



Carbide Tipped for Ripping
No. 4PC50

Nail-Embedded Wood-Cutting Circular Saw Blades

- 7000 rpm Max. Blade Speed

These saw blades cut through wood that contains nails and other non-hardened metal often encountered in construction and demolition applications.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Combination Cutting								
6 ½ in	18/24	20°	0.059 in	⅝ in	No	0.039 in	DeWalt	**5VC84** *
6 ½ in	48	5°	0.096 in	25/32 in	No	0.063 in	DeWalt	**3FRD8**
7 ¼ in	18	15°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**20GW22** †
7 ¼ in	18	20°	0.071 in	⅝ in	Yes	0.047 in	Black & Decker	**4YK26**
7 ¼ in	24	18°	0.063 in	⅝ in	Yes	0.039 in	DeWalt	**53DR68**
Carbide Tipped for Crosscutting								
7 ¼ in	60	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U43**
Carbide Tipped for Finishing								
7 ¼ in	36	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U42**
Carbide Tipped for Framing								
7 ¼ in	24	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U41**
Carbide Tipped for Ripping								
5 ⅜ in	16	20°	0.059 in	5/16 in	No	0.039 in	DeWalt	**4PC50**
7 ¼ in	18	15°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**4NZ53**
7 ¼ in	20	25°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**4NZ52**

**Pk. of 2 †Pk. of 10*

EATON | Aeroquip

Hose-Cutting Circular Saw Blades

These saw blades are used in hose chop saws to cleanly cut through soft rubber and plastic hose and tube.



Metal Tipped
No. 19MR41

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Plate Thickness	Item No.
Metal Tipped for Wire Braided Rubber Hose							
10"	45	10°	0.093"	¾"	3600 RPM	0.093"	**19MR42**
10"	None	10°	0.093"	¾"	3600 RPM	0.093"	**19MR41**
14"	24	10°	0.125"	1"	3500 RPM	0.125"	**19MR43**

DEWALT

Plastic & Composite-Cutting Circular Saw Blade

Good wear resistance when cutting through plastic and composite materials, such as cement fiberboard and plastic-laminated products.



Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Plate Thickness	Item No.
Carbide Tipped for Aluminum, Non-Ferrous Metals, Plastic							
12"	96	-5°	0.102"	1"	4800 RPM	0.079"	**1CRB8**

Fiber Cement-Cutting Circular Saw Blades

These saw blades cut through fiber cement panels such as Hardie board and Durock. They have have a low tooth count to help reduce silica and other dust when cutting. Poly-crystalline diamond (PCD) teeth cut through hard, abrasive material that cannot be cut using standard carbide blades. Fiber-cement board is used for backing panels and exterior siding.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide for Solid Stock									
4½"	24	20°	4½"	⅜"	5000 rpm	No	—	DeWalt	**55KH80**
Carbide Tipped for Fiber Cement									
7¼"	4	10°	0.071"	⅝"	8000 RPM	Yes	1.050"	Milwaukee	**490R95**
10"	6	10°	0.079"	⅝"	7000 RPM	No	1.050"	Milwaukee	**490R96**
12"	8	10°	0.079"	⅝"	7000 RPM	No	1.050"	Milwaukee	**490R97**
Poly-Crystalline Diamond (PCD) Tipped for Fiber Cement									
7¼"	4	10°	0.071"	⅝"	12,000 RPM	Yes	0.051"	Diablo	**52XF89**
7¼"	4	12°	0.071"	⅝"	7000 RPM	Yes	0.055"	DeWalt	**53DR69**
Poly-Crystalline Diamond (PCD) Tipped for Thin Metal									
4½"	4	12°	4½"	⅜"	5000 rpm	No	—	DeWalt	**55KH81**



Carbide Tipped for Fiber Cement
No. 490R95



Poly-Crystaline Diamond (PCD) Tipped for Fiber Cement
No. 53DR69

Portable Band Saws and Blades

Corded portable band saws use a toothed blade that rotates around two wheels to make clean cuts and preserve threads when cutting threaded rod. **Compact** band saws have up to a 3¼" capacity and are generally smaller and lighter than standard portable band saws. **Standard** band saws cut pipe and conduit up to 3½". **Deep-cut** band saws have a 5" cutting capacity, and are used to cut large-diameter pipe and structural shapes. Blades for portable band saws are used to cut metal pipe, strut channel, and threaded rod. Blade length is determined by the tool capacity. **Bi-metal** blades are commonly used for cutting machinable metals and stainless steel. **Carbon** steel blades are for cutting nonferrous metals.


No. 4FTJ2

Blade Size	Speeds	Surface ft. per Min. High	Surface ft. per Min. Low	Amps @ 120V	Round Cap.	Rectangle Cap.	Includes	Tool Length	Tool Wt.	Brand	Mfr. Model	Item No.
Compact Band Saw												
35⅜ x ½"	Variable	360	200	7.0 A	3¼"	3¼" x 3¼"	Carrying Case	16 in	9.5 lb	Milwaukee	6242-6	**4FTJ2**
Standard Cut Band Saws												
44⅞" x ½"	2	250	200	6.0/5.0	3½"	3½" x 4½"	Tool Only	20 in	16.0 lb	Milwaukee	6225	**6Z344**
x 0.020"	2	250	200	6.0/5.0	3½"	3½" x 4½"	Carrying Case	20 in	16.0 lb	Milwaukee	6226	**2Z739**
Deep Cut Band Saws												
	Variable	380	0	11.0	5"	5" x 5"	Tool Only	21 in	14.75 lb	Milwaukee	6232-20	**10D924**
44⅞" x ½"	Variable	380	0	11.0	5"	5" x 5"	Carrying Case	21 in	14.75 lb	Milwaukee	6232-21	**10D925**
x 0.020"	2	380	300	11.0	5"	5" x 5"	Tool Only	21 in	14.75 lb	Milwaukee	6238-20	**10D926**
	2	380	300	11.0	5"	5" x 5"	Carrying Case	21 in	14.75 lb	Milwaukee	6238-21	**10D927**

Blade Length	Teeth per Inch	Item No.	Pkg. Qty.
Bi-Metal Blades			
Milwaukee			
44 ⅞ in	14	**1Y957**	3
44 ⅞ in	18	**1Y960**	3
Morse			
27 ¾6 in	¾	**45XE01**	3
28 13⁄16 in	¾	**45XE02**	3
32 ⅞ in	¾	**45XE03**	3
35 ⅜ in	¾	**45XE04**	3
44 ⅞ in	5/6	**4XJ91**	3
44 ⅞ in	7/9	**4XJ88**	3

Blade Length	Teeth per Inch	Item No.	Pkg. Qty.
44 ⅞ in	10	**4TY49**	3
44 ⅞ in	14	**4XJ89**	3
44 ⅞ in	14	**1AJE8**	25
44 ⅞ in	18	**4XJ90**	3
44 ⅞ in	18	**4GY70**	25
44 ⅞ in	24	**4XJ92**	3
44 ⅞ in	¾	**45XE07**	3
44 ⅞ in	¾	**45XE05**	100
Carbon Steel Blades			
44 ⅞ in	14	**4XJ84**	3

Cold Saws and Blades

These saws make precise cuts in metal and use coolant to keep the blade and workpiece cool. They have toothed blades and are often used for high-volume cutting applications in metal fabrication and machine shops. **High-speed** saws spin at 3000 to 4000 rpm and are commonly used to cut plastic, aluminum, and other non-ferrous metals. **Low-speed** saws spin at up to 500 rpm and are used to cut steel, stainless steel, and other ferrous metals. **Cold saw blades** have higher tooth counts than other blades and are ideal for use in machines that spin at very low speeds with higher torque. They carry heat and chips away from the blade to produce a cool, clean, and burr-free cut edge.


High-Speed No. 31XU77

Blade Dia.	Blade Speed	Round Cut Capacity @ 0 Deg.	Arbor Size	Blade Mounting Holes	Voltage	Current	Brand	Mfr. Model	Item No.
High Speed Cold Saws									
Automatic Material Feed									
18 in	3,200 RPM	6 in	1 in	32mm	220V AC	25 A	Baileigh	CS-400AV	**31XU77**
Manual Material Feed									
13 ¾ in	1,750 RPM, 3,500 RPM	4 ½ in	1 ¼ in	2/11/63	220V AC	12 A, 24 A	JET	414203K	**36VD91**
13 ¾ in	1,750 RPM, 3,500 RPM	4 ½ in	1 ¼ in	2/11/63	440V AC	12 A, 24 A	JET	414207K	**36VD93**
14 in	3,200 RPM	4 ⅜ in	1 in	32mm	220V AC	16 A	Baileigh	CS-355M	**31XU75**
Semi-Automatic Material Feed									
14 in	3,200 RPM	4 ⅜ in	1 in	32mm	220V AC	16 A	Baileigh	CS-355SA	**31XU76**
Low Speed Cold Saws									
Automatic Material Feed									
14 ⅝ in	25 to 50 RPM	5 ⅛ in	1 ¼ in	2/11/63, 2/8/45	230V AC	16 A	Dayton	499F53	**499F53**
17 in	35 RPM, 60 RPM, 70 RPM, 120 RPM	4 15⁄16 in	1 ¼ in	32mm	220V AC	30 A	Baileigh	CS-475AV	**31XU78**
Manual Material Feed									
10 in	44 RPM	2 ¾ in	1 ¼ in	2 /8/45	110V AC	20 A	Dake	974250	**40F065**
11 in	54 RPM	3 ¼ in	1 ¼ in	32mm	110V AC	25 A	Baileigh	CS-275EU	**31XU68**
12 ½ in	22 RPM, 44 RPM	3 ⅜ in	1 ¼ in	2 /8/45	220V AC/440V AC	20 A	Dake	974315-2	**444F29**
14 in	26 RPM, 52 RPM	4 ⅜ in	1 ¼ in	32mm	220V AC	10.5 A	Baileigh	CS-350P	**31XU73**
14 in	40 to 80 RPM	4 ⅓ in	1 ¼ in	2/11/63, 2/8/45	230V AC	10 A	Dayton	499F51	**499F51**
Semi-Automatic Material Feed									
14 in	20 to 105 RPM	4 ¾ in	1 ¼ in	2 /8/45	220V AC/440V AC	20 A	Dake	974355-2	**40F069**
17 in	40 to 240 RPM	4 15⁄16 in	1 ¼ in	32mm	220V AC	27 A	Baileigh	CS-C485SA	**31XU81**

Blade Dia. - English	No. of Teeth	Brand	Item No.
Cold Saw Blades			
Solid Stock			
14"	60	Palmgren	**5TPA4**
14½"	100	Dayton	**499F55**
Thick Metal			
14"	120	Palmgren	**5TPA3**
Thin Metal			
10"	180	Palmgren	**5TNZ8**
14"	220	Palmgren	**5TPA2**
14"	280	Palmgren	**5TPA1**
14½"	220	Dayton	**499F57**
14½"	280	Dayton	**499F58**


Benchtop No. 38D142


Handheld No. 1XHH8


Cabinet Style No. 53ZC56

Cut-Off Machines

These machines have continuous-rim abrasive blades that cut metal alloys and other hard materials in fabrication, machine shops, and maintenance applications.

Blade Dia.	Max. Blade Speed	Round Cut Capacity @ 0 Deg.	Miter Angle Range	Voltage	Current	Brand	Item No.
Benchtop							
14"	4100 RPM	4¾"	-15 to 45°	240VAC	15A	Metabo	**38D142**
14"	3800 RPM	5"	0 to 45	120VAC	15A	Makita	**53YK07**
14"	3800 RPM	4½"	0 to 45°	120VAC	15A	Makita	**14U141**
Cabinet Style							
12"	4200 RPM	3⅞"	90°	240VAC	14A	Jet	**53ZC55**
12"	4200 RPM	4 1⁄16"	90°	240VAC	14A	Jet	**53ZC56**
14"	4300 RPM	4½"	0 to 45°	220VAC	20A	Baileigh Industrial	**31XT81**
Handheld							
14"	4600 RPM	1⅛"	0°	120VAC	15A	Milwaukee	**1XHH8**


No. 21VJ43

Chop Saws

Built to make straight cuts in metal with a toothed blade, these chop saws spin at a lower rpm and produce less sparking than cut-off saws, which reduces heat buildup in the blade and workpiece. They have a fence that supports the workpiece and are adjustable to make angled and miter cuts. Hose chop saws are designed to cut through rubber and plastic hose.

Blade Dia.	Round Cut Capacity @ 0 Deg.	Max. Blade Speed	Brand	Item No.
Chop Saws				
12"	4½"	1500 RPM	Skilsaw	**48KR92**
12"	4½"	1700 RPM	Makita	**1GUB1**
14"	5⅛"	1300 RPM	Fein	**21VJ43**
14"	5⅜"	1300 RPM	DeWalt	**4YL17**
Hose Chop Saw				
14"	2¼"	3500 RPM	Eaton Aeroquip	**19MR40**



Type 1
Norton
No. 5A921



Type 1
United
Abrasives- Sait
No. 5LUA1

Abrasive Cut-Off Wheel Diameter Up to 6"

Cut ferrous metals and stainless steel with aluminum oxide abrasive wheels. Zirconia wheels can efficiently cut a variety of material from stainless and carbon steels to alloys and gray iron. Use a ceramic/zirconia alumina abrasive wheel in a right angle grinder to cut steel and stainless steel.

Abrasive Wheel Diameter	Arbor Hole Size	Thickness	Abrasive Material	Max. RPM	Series	Item No.
Type 1						
3M						
3"	⅜"	0.035"	Ceramic	25,465	CUBITRON II	**22NZ81**
4"	⅜"	0.035"	Ceramic	19,100	CUBITRON II	**22NZ85**
4"	⅜"	0.060"	Ceramic	19,100	CUBITRON II	**22NZ87**
4"	⅜"	0.125"	Ceramic	19,100	CUBITRON II	**22NZ91**
4½"	⅞"	0.040"	Ceramic	13,300	CUBITRON II	**40LE80**
4½"	⅞"	0.045"	Ceramic Grain	13,300	Silver	**450Y23**
DeWalt						
3"	⅜"	0.035"	Aluminum Oxide	24,000	A60T	**3CB20**
3"	⅜"	0.0625"	Aluminum Oxide	24,000	A60T	**3CB19**
4"	⅝"	0.045"	Aluminum Oxide	19,000	A60T	**6HD43**
4½"	⅝"-11	0.045"	Aluminum Oxide	13,300	High Performance	**416L01**
4½"	⅝"-11	0.045"	Ceramic	13,300	XP Ceramic	**416L05**
4½"	⅞"	0.040"	Aluminum Oxide	13,300	High Performance	**49ZZ79**
4½"	⅞"	0.045"	Aluminum Oxide	13,300	A60T	**6HD44**
4½"	⅞"	0.045"	Aluminum Oxide	13,300	High Performance	**6TMP9**
4½"	⅞"	0.045"	Ceramic	13,300	XP Ceramic	**49ZZ84**
4½"	⅞"	0.045"	Ceramic	13,300	FLEXVOLT®	**444P76**
4½"	⅞"	0.045"	Zirconia Alumina	13,300	Extended Performance	**6TMT7**
4½"	⅞"	0.0625"	Ceramic	13,300	High Performance	**49ZZ74**
5"	⅞"	0.040"	Ceramic	12,200	XP Ceramic	**49ZZ86**
5"	⅞"	0.045"	Aluminum Oxide	12,200	A60T	**6HD45**
Diamond Vantage						
4½"	⅞"	0.050"	Diamond	13,600	—	**21AP64**
Finish 1St						
4½"	⅞"	.040"	Aluminum Oxide	13,300	—	**49XX09**
GA						
4½"	⅞"	0.040"	Aluminum Oxide	13,580	Carbo Metal	**435Y59**
LENOX						
3"	⅜"	0.050"	Diamond	20,300	MetalMax	**48RW95**
4"	⅝"	0.050"	Diamond	15,200	MetalMax	**48RW97**
4½"	⅞"	0.050"	Diamond	13,200	MetalMax™	**48RW98**
Metabo						
4½"	⅞"	0.045"	Ceramic	13,300	CA46U	**52CC92**
Milwaukee						
3"	⅜"	0.040"	Aluminum Oxide	20,000	—	**492T89**
Norton						
2"	⅜"	0.035"	Aluminum Oxide	30,560	Gemini Free Cut	**4F872**
3"	¼"	0.035"	Aluminum Oxide	25,465	Gemini Free Cut	**5A921**
3"	¼"	0.035"	Ceramic	25,465	NorZon Plus	**25TZ08**
3"	¼"	0.0625"	Aluminum Oxide	25,465	Gemini Free Cut	**5A923**
3"	⅜"	0.035"	Aluminum Oxide	25,465	Gemini Free Cut	**5A922**
3"	⅜"	0.035"	Zirconia Alumina	25,465	BlueFire	**33N542**
3"	⅜"	0.0625"	Aluminum Oxide	25,465	Gemini Free Cut	**5A924**
3"	⅜"	0.0625"	Ceramic	25,465	NorZon Plus	**1PYA8**
3"	⅜"	0.125"	Aluminum Oxide	25,465	Gemini Free Cut	**5A926**
4"	¼"	0.035"	Aluminum Oxide	19,100	Gemini Free Cut	**4B166**
4"	⅜"	0.035"	Aluminum Oxide	19,100	Gemini Free Cut	**5A927**
4"	⅜"	0.035"	Ceramic	19,100	NorZon Plus	**3WL24**
4"	⅜"	0.0625"	Aluminum Oxide	19,100	Gemini Free Cut	**5A928**
4"	⅜"	0.0625"	Zirconia Alumina	19,100	BlueFire	**33N540**
4"	⅜"	0.125"	Aluminum Oxide	19,100	Gemini Fast Cut	**5A929**
4"	⅝"	0.045"	Aluminum Oxide	15,280	Gemini Right Cut	**5GC50**
4½"	⅞"	0.040"	Aluminum Oxide	13,580	Norton Metal RightCut	**25TY43**
4½"	⅞"	0.045"	Aluminum Oxide	13,580	Gemini Right Cut	**5GC52**
4½"	⅞"	0.045"	Aluminum Oxide	13,580	Gemini RightCut Stainless	**436D96**
4½"	⅞"	0.045"	Zirconia Alumina	13,580	BlueFire Right Cut	**33N332**
4½"	⅞"	0.0469"	Aluminum Oxide	13,580	Metal Rightcut	**36WR88**
5"	⅞"	0.040"	Aluminum Oxide	12,225	Norton Metal RightCut	**25TY46**
5"	⅞"	0.045"	Aluminum Oxide	12,225	Gemini Right Cut	**5GC53**
5"	⅞"	0.045"	Zirconia Alumina	12,225	BlueFire Right Cut	**33N333**
United Abrasives-Sait						
3"	⅜"	0.035"	Aluminum Oxide	25,000	A36T	**5LUA5**
3"	⅜"	0.0625"	Aluminum Oxide	25,000	A36T	**5LUA1**
4½"	⅞"	0.045"	Aluminum Oxide	13,300	A60S	**1ATZ3**
4½"	⅞"	0.045"	Aluminum Oxide	13,300	The Ultimate Cut™	**22PT32**
4½"	⅞"	0.045"	Aluminum Oxide	13,300	SAIT.M.X.™	**1AUB1**
4½"	⅞"	0.045"	Ceramic	13,300	Saitech™	**1ATZ7**
4½"	⅞"	0.045"	Zirconia Alumina	13,300	Z-Tech™	**1AUA6**
4½"	⅞"	0.0625"	Aluminum Oxide	13,300	—	**5LUE4**
5"	⅞"	0.045"	Aluminum Oxide	12,200	A60S	**1ATZ4**
Type 27						
3M						
4½"	⅞"	0.045"	Ceramic Grain	13,300	Silver	**450Y24**
DeWalt						
4½"	⅝"-11	0.045"	Ceramic	13,300	XP Ceramic	**416L04**
4½"	⅞"	0.040"	Ceramic	13,300	High Performance	**49ZZ80**
4½"	⅞"	0.040"	Ceramic	13,300	XP Ceramic	**49ZZ85**
4½"	⅞"	0.0625"	Ceramic	13,300	High Performance	**49ZZ75**

Type 1
Metabo
No.
52CC93





Type 27
DeWalt
No. 49ZZ88

Abrasive Cut-Off Wheel Diameter 6" and Greater

Aluminum Oxide abrasive is suitable for cutting and grinding ferrous metal, gray iron, stainless, nonferrous materials, aluminum, and pipeline. Ceramic abrasive is suitable for fast cutting on almost all materials, including stainless steel, mild steel, and aerospace alloys. Diamond abrasive is suitable for most metals, including steel, sheet metal, stainless steel, rebar, cast-iron, aluminum, and other non-ferrous metals. Silicon Carbide abrasive is suitable for cutting nonferrous materials. Zirconium Aluminum Oxide abrasive is suitable for aggressive material removal on stainless steel

Abrasive Wheel Diameter	Arbor Hole Size	Thickness	Abrasive Material	Max. RPM	Series	Item No.
Type 1						
3M						
6"	⅞"	0.045"	Ceramic	10,200	CUBITRON II	**22NZ94**
6"	⅞"	0.450"	Ceramic Grain	10,200	Silver	**450Y34**
DeWalt						
6"	⅝"-11	0.045"	Aluminum Oxide	10,100	High Performance	**416L02**
6"	⅞"	0.040"	Aluminum Oxide	10,100	High Performance	**6TMR1**
6"	⅞"	0.040"	Ceramic	10,100	XP Ceramic	**49ZZ87**
6"	⅞"	0.040"	Ceramic	10,100	High Performance	**49ZZ82**
6"	⅞"	0.045"	Aluminum Oxide	10,100	A60T	**3CB32**
6"	⅞"	0.045"	Ceramic	13,300	FLEXVOLT®	**444P74**
6"	⅞"	0.045"	Zirconia Alumina	10,100	Extended Performance	**6TMT5**
7"	⅞"	0.045"	Aluminum Oxide	8700	A60T	**6HD47**
9"	⅞"	0.0781"	Ceramic	6600	FLEXVOLT®	**493Z13**
12"	1"	0.125"	Aluminum Oxide	6400	High Performance	**6HD27**
14"	1"	0.1094"	Aluminum Oxide	4300	High Performance	**4LD94**
14"	1"	0.1094"	Aluminum Oxide	4300	High Performance	**5TU10**
14"	1"	0.1094"	Aluminum Oxide	4300	High Performance	**4PC42**
14"	1"	0.1094"	Aluminum Oxide	4300	High Performance	**3PA10**
14"	1"	0.1094"	Aluminum Oxide	4300	Extended Performance	**3CB41**
14"	1"	0.1094"	Aluminum Oxide	4300	High Performance	**4PC43**
14"	1"	0.125"	Aluminum Oxide	5500	High Performance	**6HD25**
14"	20mm	0.125"	Aluminum Oxide	5500	High Performance	**6HD26**
GA						
6"	⅞"	0.045"	Aluminum Oxide	10,185	GoldCut	**435Y64**
LENOX						
6"	⅞"	0.050"	Diamond	10,100	MetalMax	**48RX01**
7"	⅞"	0.060"	Diamond	8400	MetalMax	**48RX02**
14"	1"	0.130"	Diamond	4300	MetalMax	**48RX06**
14"	1"	0.150"	Diamond	5300	MetalMax	**48RX08**
Metabo						
6"	⅞"	0.045"	Ceramic	10,200	CA46U	**52CC93**
Norton						
6"	⅝"	0.035"	Aluminum Oxide	10,185	Gemini	**25TZ29**
6"	⅝"	0.035"	Aluminum Oxide	10,190	A60	**2D750**
6"	⅝"	0.0625"	Aluminum Oxide	10,190	Gemini	**25TZ30**
6"	⅞"	0.040"	Aluminum Oxide	10,190	Norton Metal RightCut	**25TY48**
6"	⅞"	0.045"	Aluminum Oxide	10,185	Gemini RightCut Stainless	**436D97**
6"	⅞"	0.045"	Aluminum Oxide	10,285	Gemini Right Cut™	**5GC54**
6"	⅞"	0.045"	Zirconia Alumina	10,185	BlueFire Right Cut	**33N334**
6"	⅞"	0.0469"	Aluminum Oxide	10,185	Gemini RightCut	**36WR96**
10"	⅝"	0.060"	Aluminum Oxide	4585	57A	**3UP21**
10"	⅝"	0.0937"	Aluminum Oxide	6110	Gemini Fast Cut	**3WT23**
10"	⅝"	0.0937"	Aluminum Oxide	6110	Gemini Long Life	**6A101**
10"	1¼"	0.060"	Aluminum Oxide	6110	A60	**2D759**
12"	1"	0.1094"	Aluminum Oxide	5095	Gemini	**6A104**
12"	1"	0.125"	Aluminum Oxide	5095	Gemini Long Life	**6A102**
14"	1"	0.0937"	Aluminum Oxide	4365	Gemini	**6A105**
14"	1"	0.0937"	Aluminum Oxide	4365	Gemini Free Cut Chopsaw	**25UA10**
14"	1"	0.1094"	Aluminum Oxide	4365	Metal	**25TY93**
14"	1"	0.1094"	Zirconia Alumina	4365	BlueFire Free Cut	**33N336**
14"	1"	0.125"	Aluminum Oxide	4365	Gemini Long Life	**6A103**
14"	1"	0.125"	Aluminum Oxide	4365	Gemini Fast Cut	**3WW22**
14"	1"	0.125"	Zirconia Alumina	4365	BlueFire	**33N521**
14"	20mm	0.125"	Aluminum Oxide	5400	Gemini Metal	**12V887**
14"	20mm	0.125"	Aluminum Oxide	5400	Norton Metal Heavy Duty High Speed	**4DDX1**
14"	20mm	0.125"	Silicon Carbide	5400	Gemini Ductile	**12V891**
16"	1"	0.1094"	Aluminum Oxide	3820	Gemini	**5A932**
16"	1"	0.125"	Zirconia Alumina	4800	NorZon III	**6PL31**
16"	1"	0.125"	Zirconia Alumina	4800	NorZon III Fast Cut	**5VYN5**
16"	1"	0.1562"	Aluminum Oxide	3820	Gemini Long Life	**5A930**
20"	1"	0.1562"	Aluminum Oxide	2710	Gemini Fast Cut	**3VV70**
United Abrasives-Sait						
6"	⅞"	0.045"	Aluminum Oxide	10,200	A60S	**1ATZ5**
6"	⅞"	0.045"	Aluminum Oxide	10,200	A60S	**1AUB3**
6"	⅞"	0.045"	Ceramic	10,200	Saitech™	**1ATZ9**
6"	⅞"	0.045"	Zirconia Alumina	10,200	Z-Tech™	**1AUA8**
14"	1"	0.0937"	Aluminum Oxide	4400	Iron Worker™	**5LTZ6**
14"	1"	0.0937"	Aluminum Oxide	4400	EZ-Chop(R)	**5LTZ4**
14"	1"	0.0937"	Aluminum Oxide	4400	EZ-Chop Attacker(R)	**5LTZ9**
14"	1"	0.0937"	Aluminum Oxide	4400	Stud King(R)	**5LTZ5**
14"	1"	0.0937"	Ceramic	4400	Saitech Steel Worker(R)	**5LTZ8**
Type 27						
DeWalt						
6"	⅝"-11	0.045"	Ceramic	10,100	XP Ceramic	**416L03**
6"	⅞"	0.040"	Ceramic	10,100	High Performance	**49ZZ83**
6"	⅞"	0.045"	Ceramic	10,100	XP Ceramic	**49ZZ88**

Economy and Professional Heat Guns



No. 34G833



No. 6Z360



No. 3KH79



No. 4HWK4



No. 5JNK6



No. 406P77

ECONOMY

Porter Cable—Temperature dial and slide switch with variable temperature settings. Integrated kickstand and hanging hook.

Westward—Variable temperature gun has mica composite heating element and polycarbonate housing.

PROFESSIONAL FIXED TEMPERATURE

Milwaukee—3-position rocker switch. Impact resistant heating element.

PROFESSIONAL VARIABLE TEMPERATURE

DeWalt—Allow temperature adjustment in 50°F increments. Built-in overload protection. Built-in kickstand and hang ring.

Milwaukee—Dial control to select temperature. Impact resistant heating element.

PROFESSIONAL LCD

Westward—Digital LCD shows temperature in increments of 10°F. Retractable heat guard and built-in stand. High-impact polymer housing and mica composite heating element.

DeWalt—LCD shows temperature, adjustable in 50°F increments. Built-in overload protection. Built-in kickstand and hang ring.

Milwaukee—LCD shows preset temperature in 10°F increments. Features ceramic-encapsulated heating element, removable air filter, and thermo-protected operation.

STEINEL—LCD shows temperature, selectable in 10°F increments.

Master Appliance—LCD shows air speed and temperature in °F or °C in 10° increments. No. 3ZLU1 comes with a Prolock™ magnetic key that allows you to lock the controls and prevent changes to the temperature and airflow settings.

Temperature Range	Watts	Heat Gun Handle Style	Heat Control Switch	Air Volume	Includes	Brand	Mfr. Model	Item No.
Economy								
120° to 1150°F	1500	Pistol	Turn Dial	19.0 cfm	Integrated Hanging Hook	Porter Cable	PC1500HG	**34G833**
250° to 1000°F	1200	Pistol	Turn Dial	5.0/9.0 cfm	—	Westward	—	**4HWK1**
	1200	Pistol	Turn Dial	5.0/9.0 cfm	Heat Gun, 4 Attachments (Reflector, Spreader, Concentrator, Pin Point Concentrator) and Storage Case	Westward	—	**4HWK2**
Professional Fixed Temperature								
570°/1000°F	1392	Pistol	None	14.8 cfm	—	Milwaukee	8975-6	**6Z360**
500° to 1000°F	1300	Pistol	None	16.0 cfm	—	Master Appliance	PH-1100	**3W771**
1000°F	1300	Pistol	None	16.0 cfm	—	Master Appliance	PH-1000	**5PYP5**
Professional Variable Temperature								
120° to 1100°F	1550	Pistol	Turn Dial	16.0 cfm	Fish Tail Nozzle and Cone Nozzle, Kickstand	DeWalt	D26950	**5JNK5**
100° to 1040°F	1392	Pistol	Turn Dial	14.8 cfm	—	Milwaukee	8977-20	**2Q445**
130° to 1000°F	1300	Pistol	Turn Dial	16.0 cfm	Heat Gun	Master Appliance	PH-1200	**3KH79**
Professional LCD								
130° to 930°F	1200	Pistol	Turn Dial	5.0/9.0 cfm	—	Westward	—	**4HWK4**
150° to 1100°F	1550	Pistol	Buttons	17.7 cfm	Fish Tail Nozzle and Cone Nozzle, Kickstand, LCD display	DeWalt	D26960	**5JNK6**
	1550	Pistol	Buttons	17.7 cfm	Cone Nozzle, Fishtail Surface Nozzle, 10 Other Common Accessories, Kit Box	DeWalt	D26960K	**20G231**
120° to 1150°F	1500	Pistol	Buttons	10.6/17.6 cfm	—	Milwaukee	8988-20	**5PP84**
120° to 1200°F	1600	Pistol	Turn Dial	13.0 cfm	—	Steinel	HG2320E	**406P76**
	1750	Pistol	Turn Dial	13.0 cfm	—	Steinel	HG2520E	**406P75**
120° to 1150°F	1600	Pistol	Buttons	13.0 cfm	—	Steinel	HL2020E	**406P77**
130° to 1000°F	1300	Pistol	Turn Dial	4.0 to 16.0 cfm	—	Master Appliance	PH-1400	**3ZLU1**
	1300	Pistol	Buttons	4.0 to 16.0 cfm	Prohead LCD Programable Heat Guns, 5 Programs	Master Appliance	PH-1500	**3ZLU3**


No. 54XX98


No. 4KFU6


No. 4Z717



No. 54XY12

MASTER HEAT TOOLS FOR INDUSTRY™ STEINEL® PROFESSIONAL

Industrial Heat Guns and Blowers

VARITEMP® HEAT GUNS

- Powerful universal motor with high air-flow rating
- Heavy-duty die-cast aluminum housing
- Built-in, 90°-rotating, adjustable metal stand

Use to shrink tuning, bend plastics, cure adhesives, heat or dry parts, or strip paint. Reinforced mica-insulated ceramic heating element. External, replaceable carbon brushes. 3-position rocker switch.

Varitemp heat guns allow locked-in selectable temperature up to 1000°F.

MASTERFLOW® HEAT BLOWERS

- Powerful, quiet, brushless continuous-duty motor
- 90°-adjustable nonslip stand

Use for heating, drying, or shrinking applications. Mountable over conveyor lines and on machinery. Reinforced mica-insulated heating element. No. 4Z718 requires 18A 5-20R receptacle.

STEINEL HEAT BLOWERS

No. 5KNP7 has slide switch and baffle to adjust air and temperature. Series HB1750 blowers have continuously adjustable airflow and plug-in heating element. Keys lock in temperature range.

Temperature Range	Watts	Heat Gun Handle Style	Air Volume	Includes	Brand	Mfr. Model	Item No.
D-Series Heat Guns							
400°F	600	Pistol	27.0 cfm	—	Master Appliance	HG-201D	**54XX98**
	600	Pistol	27.0 cfm	Shrink Attachment, Spreader Attachment, Reducer Attachment	Master Appliance	HG-201D-00-K	**54XX99**
800°F	1440	Pistol	27.0 cfm	—	Master Appliance	HG-301D	**54XY03**
	1440	Pistol	27.0 cfm	Shrink Attachment, Spreader Attachment, Reducer Attachment	Master Appliance	HG-301D-00-K	**54XY04**
1200°F	1740	Pistol	27.0 cfm	—	Master Appliance	HG-501D	**54XY07**
	1740	Pistol	27.0 cfm	Shrink Attachment, Spreader Attachment, Reducer Attachment	Master Appliance	HG-501D-00-K	**54XY08**
Heat Blowers							
200° to 1200°F	1750	Pistol	23.0 cfm	Complete Set of 5 Temperature Keys	Steinel	HB 1750 BLOWER	**4KFU6**
	1752	Pistol	23.0 cfm	5 Temperature Keys, Large Reflector Nozzle, Spare Heating Element and Silver Case	Steinel	HB1750K	**24A399**
750° to 1000°F	1752	Pistol	23.0 cfm	Heat Blower and Stand	Steinel	SV 750 Blower	**5KNP7**
Masterflow Heat Blowers							
300°F	1200	Loop	47.0 cfm	Heat Blower and Stand	Master Appliance	AH-301	**5PYR0**
500°F	1606	Loop	47.0 cfm	Heat Blower and Stand	Master Appliance	AH-502	**1YMJ9**
	1680	Loop	47.0 cfm	Heat Blower and Stand	Master Appliance	AH-501	**4Z717**
750°F	2160	Loop	47.0 cfm	Heat Blower and Stand	Master Appliance	AH-751	**4Z718**
Varitemp Heat Guns							
100° to 1200°F	1740	Pistol	27.0 cfm	—	Master Appliance	VT-751D	**54XY11**
	1740	Pistol	27.0 cfm	Shrink Attachment, Spreader Attachment, Reducer Attachment	Master Appliance	VT-751D-00-K	**54XY12**


No. 406P73



No. 44C480



No. 30TU15

STEINEL® PROFESSIONAL MASTER HEAT TOOLS FOR INDUSTRY™ GA GRAINGER APPROVED

Specialty Heat Guns

WAND STYLE

STEINEL—Kits include HG 2620 E heat tool and accessories for specific applications.

MASTER-MITE® AND ESD HEAT SHRINK SYSTEM

- Quiet, continuous-duty shaded pole motor
- On/Off indicator light

Use to shrink tubing, melt solder preforms, dry components, or activate adhesives. Low-velocity air flow prevents components from blowing around workstation. Plug-in heating element.

SURFACE TEMPERATURE

Master Proheat STC®'s innovative design senses and controls actual work surface temperature. Once reached, it maintains target surface temperature throughout the heating process, automatically compensating for changes in distance from the work surface. Unit includes LCD, lockable controls, adjustable temperature in 10° increments, adjustable air flow, dual laser targeting system and LED progress indicator.

Heat guns are dual-mode and can be switched from surface to nozzle temperature sensing and control.

ESD

No. 30TU15 is fixed temperature.

Temperature Range	Watts	Heat Gun Handle Style	Air Volume	Includes	Brand	Mfr. Model	Item No.
Wand-Style Heat Gun							
80° to 1250°F	1750	Wand	13.0 cfm	Plug In Heating Element	Steinel	HG26020E	**406P73**
Master-Mite® and Master-Mite® ESD Heat Shrink Systems							
650°F	450	Pistol	3.8 cfm	220V Heat Gun, Shrink Attachment, Wire Bench Stand	Master Appliance	10009	**5PYR3**
	475	Pistol	3.8 cfm	Heat Gun, Bench Stand and Heat Shrink Attachment	Master Appliance	10008	**5HC24**
Heat-Shrink Guns							
600° to 1000°F	—	Pistol	—	—	GA	5URU8	**5URU8**
Surface Temperature Heat Guns							
90° to 1000°F	1300	Pistol	4.0 to 16.0 cfm	Heat Gun, Ceramic Heating Elements, Plastic Housing, Lockable, Momentary Contact Switch	Master Appliance	PH-1600	**44C480**
	1300	Pistol	4.0 to 16.0 cfm	Heat Gun, Carry Case	Master Appliance	PH-1600K	**46N338**
ESD Heat Guns							
750°F	300	Pistol	3.5 cfm	Heat Tool, 5mm Reducer with Guard Nozzle, 7mm Reducer Nozzle	Steinel	HG 350 ESD	**30TU15**





Slugger by FEIN | Milwaukee | Fein

Magnetic Drill Presses

Slugger—Allow portable hole drilling away from stationary machinery. Smart Magnet® circuitry provides added safety. Include safety strap, cutter shield, and storage case.

Milwaukee—M18 FUEL™ 1½" and AC powered 1⅝" drills are optimized for annular cutters and twist bits with a 2-speed gear box and tool free adjustment. Permanent Magnet operates without electricity and delivers a strong magnetic hold on ¼" steel.

- Replacement motors available, go to Grainger.com®

Capacity Steel	Spindle Taper	Amps	No Load RPM	Drill Travel	Drill Point Pressure	Drill to Center From Base	Includes	Overall Height	Tool Length	Tool Wt.	Mfr. Model	Item No.
Slugger by Fein Magnetic Drill Presses												
1½"	¾"	11.5	450	2⁹⁄₁₆"	2000 lb.	1⅞"	Storage Case, Safety Strap, Cutter Shield	17¾"	9⅜"	31.7 lb.	JME USA 101	**4KYN6**
1⅝"	¾"	10.2	450	2⁹⁄₁₆"	2000 lb.	1⅜"		11"	11½"	28.9 lb	JMC MAGFORCE	**4KYN8**
4"	MT3	11.7	150 to 220/290 to 450	8⁷⁄₁₆"	4833 lb.	2⁹⁄₁₆"		31½"	16"	73.0 lb.	JMU 4 X 4	**4KYP1**
1⅜"	¾"	9.5	450	10¼"	787 lb.	1⁷⁄₁₆"	Magnetic Base Drill, Coolant Tank, (2) Centering Pins, Touch Guard, Safety Strap, Additional Handle, Case, (2) Hex Keys	6¹¹⁄₁₆"	10¾"	25.7 lb.	JME HOLEMAKER III	**472C16**
Milwaukee Magnetic Drill Presses												
½"	—	7.2	600	9"	1650 lb.	1¼"	6-ft. Safety Chain, Mfr. No. 48-66-1360 Chuck and Mfr. No. 48-66-3280 Key	25¼"	17¼"	57.0 lb.	4204-1	**3F863**
¾"	—	11.5	350	9"	1670 lb.	5³⁄₃₂"	6-ft. Safety Chain, Mfr. No. 48-66-2085 Chuck and Mfr. No. 48-66-3160 Key	20½"	15"	62.0 lb.	4210-1	**4A939**
¾"	—	11.5	0-350	11"	1670 lb.	4¹¹⁄₁₆"	—	25¼"	15"	70.0 lb.	4206-1	**3F865**
1¼"	MT3	11.5	500/250	11"	1600 lb.	4⅜"	6-ft. Safety Chain	25¼"	17¼"	72.0 lb.	4208-1	**4A940**
1¼"	MT3	11.5	750/375	11"	1600 lb.	5³⁄₃₂"		25¼"	15"	72.0 lb.	4209-1	**3TB70**
1⅝"	—	13.0	475 to 730	5¾"	800 lb.	1¼"	Lubricant Spray Bottle, ½" Chuck Adapter, Chuck Key, (2) Telescoping Pilot Pins, Safety Strap, Carrying Case	14⁷⁄₆₄"	11¼"	30.0 lb.	4272-21	**40LJ21**
1⅝"	—	13.0	475 to 730	5¾"	750 lb.	1¼"		14"	13¾"	30.5 lb.	4274-21	**40LJ22**
Milwaukee M18™ Magnetic Drill Kits												
1½"	—	—	400/690	5¾"	750 lb.	1¼"	(2) Batteries, Charger, Magnetic Lubrication Tank, ½" Chuck Adapter, Chuck Key, (2) Telescoping Pilot Pins, Safety Strap, Carrying Case	15½"	13¾"	29.5 lb.	2787-22HD	**48UT16**
Milwaukee M18™ Lineman Magnetic Drill Kit												
1½"	—	—	400/690	5¾"	750 lb.	1¼"	(2) Batteries, (1) Charger, Magnetic Lubrication Tank, ½" Chuck Adapter, Chuck Key, (2) Telescoping Pilot Pins, Safety Strap, Carrying Case	15½"	13¾"	29.5 lb.	2788-22HD	**48UT17**
Fein Magnetic Drill Press												
1³⁄₁₆"	¾"	7.0	680	2½"	1800 lb.	1⅞"	Case, Coolant Tank, Safety Strap, (1) Chip Hook, (2) Centering Pins, Wrench, Safety Guard	11"	9½"	22.0 lb.	JME SHORT SLUGGER	**21VJ79**

Annular Cutters

GRAINGER APPROVED | Milwaukee | Slugger by FEIN

Shank	Application	Suggested Cutter Material
¾"	For Drilling Hard to Machine, Stainless and Inconsistent Materials With Increased Feed Rates and Longer Life	M42 TiN
	For Drilling Hard to Machine and Inconsistent Materials	M42 Cobalt
	For Cutting Steel Plate, Stainless Steel, Cast Iron and Alumimum	Carbide Tipped
	For Cutting Structural Steel	M2 HSS
	For Drilling Soft to Hard Steel	Carbide



Dia.	GA M2 HSS 1" Cutting Depth Item No.	GA M2 HSS 2" Cutting Depth Item No.	MILWAUKEE HSS 1" Cutting Depth Item No.	MILWAUKEE HSS 2" Cutting Depth Item No.	SLUGGER M42 Cobalt 1" Cutting Depth Item No.	SLUGGER M42 Cobalt 2" Cutting Depth Item No.	SLUGGER M42 TiN 1" Cutting Depth Item No.	SLUGGER M42 TiN 2" Cutting Depth Item No.	SLUGGER Carbide Tipped 1" Cutting Depth Item No.	SLUGGER Carbide Tipped 2" Cutting Depth Item No.
7⁄16"	4TGY9	4THD2	—	—	4WNJ4	4KYH2	4WNL6	4KYK4	—	—
½"	4TGZ1	4THD3	3TY49	21R643	4WNJ5	4KYH3	4WNL7	4KYK5	—	—
9⁄16"	4TGZ2	4THD4	3HU90	3HY25	4WNJ6	4KYH4	4WNL8	4KYK6	—	—
5⁄8"	4TGZ3	4THD5	3HU91	3HY26	4WNJ7	4KYH5	4WNL9	4KYK7	—	—
11⁄16"	4TGZ4	4THD6	—	3HY28	4WNJ8	4KYH6	4WNN1	4KYK8	—	—
13⁄16"	4TGZ6	4THD8	—	3HY30	4WNK1	4KYH8	4KYF6	4KYL1	—	—
7⁄8"	4TGZ7	4THD9	—	—	4WNK2	4KYH9	4KYF7	4KYL2	—	—
15⁄16"	4TGZ8	4THE1	3HU96	3HY32	4WNK3	4KYJ1	4KYF8	4KYL3	—	—
1"	4TGZ9	4THE2	3HU97	3HY33	4WNK4	4KYJ2	4KYF9	4KYL4	—	—
1 1⁄16"	4THA1	4THE3	21R627	21R644	4WNK5	4KYJ3	4KYG1	4KYL5	—	4NZY8
1 1⁄8"	4THA2	4THE4	21R628	21R645	4WNK6	4KYJ4	—	4KYL6	—	—
1 3⁄16"	4THA3	4THE5	21R629	21R646	4WNK7	4KYJ5	4KYG3	—	—	—
1 1⁄4"	4THA4	4THE6	—	21R647	4WNK8	4KYJ6	4KYG4	4KYL8	—	—
1 5⁄16"	4THA5	4THE7	21R631	21R648	4WNK9	4KYJ7	—	—	—	—
1 3⁄8"	4THA6	4THE8	21R632	21R649	4WNL1	4KYJ8	—	—	—	—
1 1⁄2"	4THA7	4THE9	21R634	21R651	4WNL2	4KYJ9	4KYG7	—	—	—
1 5⁄8"	4THA8	4THF1	21R636	21R653	4WNL3	4KYK1	—	—	—	—
1 3⁄4"	4THA9	4THF2	21R638	21R655	4WNL4	4KYK2	—	—	—	—
2"	4THD1	4THF3	21R642	21R659	4WNL5	4KYK3	—	4KYN5	—	—
3⁄4"	—	4THD7	3HU93	3HY29	4WNJ9	4KYH7	4WNN2	4KYK9	—	—
2 1⁄8"	—	—	—	—	—	—	—	—	4NZX8	4NZZ9
2 1⁄4"	—	—	—	—	—	—	—	—	4NZX9	—
2 3⁄8"	—	—	—	—	—	—	—	—	4NZY1	4PAA2

Dia. (in.)	2" Cutting Depth Item No.
Carbide-Tipped Inside Thread Cutters	
2½	4PAA3
3	4PAA5

No. of Pieces	Cutting Depth (in.)	Item No.
M2 HSS Sets		
5	1	4THF4
5	2	4THF5
11	1	4THF6
11	2	4THF7
Slugger M42 Cobalt Sets		
5	1	4NYC4
5	2	4NYC6
11	1	4NYA9
11	2	4NYC2
Slugger M42 TiN Sets		
5	1	4NYC5
5	2	4NYC7
11	1	4NYC1
11	2	4NYC3

For Use With	1" Cutting Depth Item No.	2" Cutting Depth Item No.
Pilot Pins for Annular Cutters		
For ½" Dia. and Smaller Annular Cutters	4NYD3	4NYD4
For ⁹⁄₁₆" Dia. and Larger Annular Cutters	4NYD5	4NYD6
For ¾" Shank Carbide-Tipped Cutters	4NYD7	4NYD8





For Proto Items Only.



10-Drawer Top Chest No. 49NR84



11-Drawer Rolling Cabinet No. 49NR91



Side Cabinet No. J4822

Premium Tool Storage Cabinets and Chests

- Ball-bearing slides
- For drawer configurations, see Grainger.com®

Chests feature both drawers and a top-opening door for easy tool access and efficient organization. Cabinets have drawers only, with no top access. Rolling cabinets have preassembled casters mounted for easy transport.

W	D	H	No. of Drawers	Drawer Capacity	▶CHOOSE: Color	Brand	Item No.
Top Chests							
66"	27"	27"	10	400 lb.	Red, Black, Blue	Proto	**J4804**
66"	27"	27"	8	400 lb.	Red, Black, Blue	Proto	**J4803**
56"	24"	22"	12	100 lb.	Stainless Steel	Westward	**34F778**
56"	24"	22"	12	100 lb.	Black	Westward	**G7177**
54"	24"	46½"	11	250 lb.	Red	Westward	**49NR86**
54"	25 45/64"	24 51/64"	8	250 lb.	Black	Westward	**49NR87**
50"	25¼"	27"	12	250 lb.	Red, Black, Blue	Proto	**J4814**
50"	25¼"	27"	10	250 lb.	Red, Black, Blue	Proto	**J4815**
50"	25¼"	27"	8	250 lb.	Red, Black	Proto	**J4813**
42"	24"	46½"	10	250 lb.	Red	Westward	**49NR84**
42"	24"	46½"	10	250 lb.	Black	Westward	**49NR85**
34"	25¼"	27"	6	250 lb.	Red, Black, Blue	Proto	**J4819**
34"	25¼"	27"	5	250 lb.	Red, Black, Blue	Proto	**J4820**
34"	25¼"	27"	4	250 lb.	Red, Black, Blue	Proto	**J4821**
Side Cabinets							
19"	25¼"	34"	6	250 lb.	Red, Black, Blue	Proto	**J4822**
19"	25¼"	34"	5	250 lb.	Red, Black	Proto	**J4823**
15"	18"	35"	9	200 lb.	Red, Black, Blue	Proto	**J4851**
Workstations/Rolling Cabinets							
88¼"	27"	46⅜"	22	400 lb.	Yellow, Red, Black, Blue	Proto	**J4790**
88¼"	27"	46⅜"	20	400 lb.	Yellow, Red, Black, Blue	Proto	**J4791**

W	D	H	No. of Drawers	Drawer Capacity	▶CHOOSE: Color	Brand	Item No.
88¼"	27"	46⅜"	18	400 lb.	Red, Black, Blue	Proto	**J4793**
78⅞"	25¼"	43¼"	20	400 lb.	Red, Black, Blue	Proto	**J4797**
67"	25¼"	41"	20	250 lb.	Red	Proto	**J4799**
67"	25¼"	41"	18	250 lb.	Red	Proto	**J4800**
66"	27"	46"	12	400 lb.	Red, Black, Blue	Proto	**J4801**
66"	27"	46"	11	400 lb.	Red	Proto	**J4802**
57"	25¼"	43"	13	400 lb.	Red, Black, Blue	Proto	**J4805**
57"	25¼"	43"	11	400 lb.	Red, Black, Blue	Proto	**J4806**
54"	24"	46 3/16"	11	250 lb.	Black	Westward	**49NR91**
54"	24"	46 3/16"	11	250 lb. Lower Drawers, 500 lb. Top Drawer	Red	Westward	**49NR90**
50"	25¼"	41"	12	250 lb.	Red, Black, Blue	Proto	**J4810**
50"	25¼"	41"	10	250 lb.	Red, Black, Blue	Proto	**J4812**
50"	25¼"	41"	8	250 lb.	Red, Black, Blue	Proto	**J4808**
50"	25¼"	41"	8	250 lb.	Red, Black, Blue	Proto	**J4807**
50"	25¼"	41"	7	250 lb.	Red, Black, Blue	Proto	**J4809**
50"	25¼"	41"	10	250 lb.	Red, Black, Blue	Proto	**J4811**
45"	21"	42"	6	400 lb.	Red	Proto	**3LVR9**
42"	24"	46 3/16"	10	250 lb.	Red	Westward	**49NR88**
42"	24"	46 3/16"	10	250 lb.	Black	Westward	**49NR89**
34"	25¼"	41"	8	250 lb.	Red, Black, Blue	Proto	**J4816**
34"	25¼"	41"	7	250 lb.	Red, Black, Blue	Proto	**J4817**
34"	25¼"	41"	6	250 lb.	Red, Black, Blue	Proto	**J4818**





For Proto Items Only.



11-Drawer Top Chest No. 53RH50



13-Drawer Rolling Cabinet No. G7168



3-Drawer Intermediate Chest No. G7172



16-Drawer Rolling Cabinet No. H1757

Heavy-Duty Tool Storage Cabinets and Chests

PROTO® ★ WESTWARD®

- Full-extension ball bearing slides on all drawers
- Heavy-duty keyed lock
- Casters preassembled on rolling cabinets
- For drawer configurations, see Grainger.com®

Top chests have hinged lids that allow full access to a top compartment for easy tool access. Rolling cabinets have built-in casters to easily transport necessary tools just about anywhere in your facility.

W	D	H	No. of Drawers	Drawer Capacity	▶CHOOSE: Color	Brand	Item No.
Top Chests							
54"	18"	23"	12	200 lb.	Red, Black, Blue	Proto	**J4826**
41 4/64"	18 35/64"	13 55/64"	3	99 lb.	Stainless Steel	Westward	**53RH51**
41 1/16"	18 3/8"	26 7/8"	11	100 lb.	Red, Black, Blue	Westward	**G7162**
41 27/64"	18 5/32"	26 13/16"	11	99 lb.	Stainless Steel	Westward	**53RH50**
27"	18"	19"	12	200 lb.	Red, Black, Blue	Proto	**J4845**
27"	18"	19"	10	200 lb.	Red, Black, Blue	Proto	**J4846**
27"	18"	19"	8	200 lb.	Red, Black, Blue	Proto	**J4842**
26 3/16"	17 9/16"	10 5/8"	3	99 lb.	Stainless Steel	Westward	**53RH48**
26"	16 1/2"	18 1/2"	6	100 lb.	Red, Black, Blue	Westward	**G7159**
26"	12 5/8"	16 1/16"	9	100 lb.	Red, Black, Blue	Westward	**G7160**
Side Cabinet/Lockers							
15"	18"	58"	4	200 lb.	Red, Black, Blue	Proto	**J4850**
15 1/2"	18 1/8"	33 13/16"	7	80 lb.	Red, Black, Blue	Westward	**G7173**
Workstations/Rolling Cabinets							
54"	18"	42"	14	200 lb.	Red, Black, Blue	Proto	**J4825**
42 3/64"	18 15/16"	33 35/64"	11	99 lb.	Stainless Steel	Westward	**53RH52**
42"	18 15/16"	39 13/16"	13	100 lb. Shallow, 200 lb. Deep	Red, Black, Blue	Westward	**G7168**
42"	18 15/16"	39 13/16"	11	100 lb. Shallow, 200 lb. Deep	Red, Black, Blue	Westward	**G7169**
42"	18 15/16"	39 13/16"	6	100 lb. Shallow, 200 lb. Deep	Red, Black, Blue	Westward	**G7167**
41"	18"	42"	15	200 lb.	Red, Black, Blue	Proto	**J4829**
41"	18"	42"	6	200 lb.	Red, Black, Blue	Proto	**J4828**
27"	18"	42"	12	200 lb.	Red, Black, Blue	Proto	**J4837**
27"	18"	42"	11	200 lb.	Red, Black, Blue	Proto	**J4838**

W	D	H	No. of Drawers	Drawer Capacity	▶CHOOSE: Color	Brand	Item No.
27"	18"	42"	8	200 lb.	Red, Black, Blue	Proto	**J4834**
27"	18"	42"	7	200 lb.	Red, Black, Blue	Proto	**J4835**
27"	18"	35"	7	200 lb.	Red, Black, Blue	Proto	**J4839**
27"	18"	52"	7	200 lb.	Red, Black, Blue	Proto	**J4832**
27"	18"	42"	4	200 lb.	Red, Black, Blue	Proto	**J4836**
27"	18"	35"	3	200 lb.	Red, Black, Blue	Proto	**J4840**
26 11/16"	18 5/64"	27 49/64"	5	88 lb.	Stainless Steel	Westward	**53RH49**
26 11/16"	18"	39 7/16"	7	100 lb.	Red, Black, Blue	Westward	**G7165**
26 11/16"	18"	33 5/16"	5	100 lb.	Red, Black, Blue	Westward	**G7166**
26 5/16"	17 5/16"	20 51/64"	5	88 lb.	Stainless Steel	Westward	**53RH47**
Intermediate Chests							
42"	19"	16"	3	100 lb.	Black	Westward	**49EV15**
42"	18"	16"	3	100 lb.	Red	Westward	**49EV14**
42"	18"	16"	3	100 lb.	Blue	Westward	**48ZC86**
27"	18"	10"	4	200 lb.	Red, Black, Blue	Proto	**J4849**
26 5/16"	16 15/16"	10 5/8"	3	80 lb.	Red, Black, Blue	Westward	**G7172**
Cabinet & Chest Combo Units							
42"	18 1/2"	60 1/2"	24	100 lb., 200 lb.	Red, Black, Blue	Westward	**H1763**
42"	18 1/2"	60 1/2"	22	100 lb., 200 lb.	Red, Black, Blue	Westward	**H1764**
42"	18 1/2"	66 5/8"	17	100 lb., 200 lb.	Red	Westward	**H1759**
42"	18 1/2"	60 1/2"	17	100 lb., 200 lb.	Black, Blue	Westward	**H1759**
26"	18"	49 3/4"	16	80 lb.	Red	Westward	**H1757**
26"	18"	55 3/4"	16	80 lb.	Black, Blue	Westward	**H1757**
26"	18"	49 5/8"	14	80 lb.	Red, Black, Blue	Westward	**H1758**
26"	18"	58"	13	80 lb.	Red, Black, Blue	Westward	**H1754**
26"	18"	51 3/4"	11	80 lb.	Red, Black, Blue	Westward	**H1753**



7-Drawer Top Chest
No. 48RJ71



5-Drawer Rolling Cabinet
No. 48RJ74



3-Drawer Rolling Cabinet
No. 48RJ73

Light-Duty Tool Storage Cabinets and Chests

- 55-lb. ball bearing drawer provide smooth action
- 4" x 2" polypropylene casters
- 660-lb. rolling cabinet capacity
- For drawer configurations, see Grainger.com®

Top Chests can be placed on top of the Rolling Cabinets or countertops and have a hinged lid that allows easy access to a top storage compartment. Rolling Workstation/Cabinets come in a variety of drawer configurations and have a flat top surface that provides an excellent mobile work area. 3-drawer Intermediate Chest No. 48RJ72 provides additional storage that can be placed on the rolling cabinet and under the top chest.

WESTWARD®

W	D	H	No. of Drawers	Drawer Capacity	Color	Item No.
Top Chests						
25 15⁄16 in	12 1⁄16 in	16 in	7	55 lb	Red	**48RJ71**
25 15⁄16 in	12 1⁄16 in	13 in	6	55 lb	Red	**48RJ70**
25 15⁄16 in	12 1⁄16 in	13 5⁄8 in	4	55 lb	Red	**48RJ69**
Workstation/Rolling Cabinets						
26 5⁄8 in	18 1⁄16 in	28 1⁄2 in	5	55 lb	Red	**48RJ74**
26 5⁄8 in	18 1⁄16 in	28 1⁄2 in	3	55 lb	Red	**48RJ73**
Intermediate Chest						
26 3⁄8 in	12 1⁄2 in	9 5⁄8 in	3	55 lb	Red	**48RJ72**



10-Drawer Project Center
No. 48ZF02

WESTWARD® PROTO®

Project Centers and Utility Carts

Drawer slides extend fully. All items feature a central locking system with keyed lock.

Note: Drawer/compartment size information is on Grainger.com®; search by Item No., and click on the "Tech Specs" tab.

PROJECT CENTERS

Mobile workstations on wheels come complete with work surfaces, molded tool holders, plastic side handles and 2 fixed/2 swivel casters.

No. 48ZF02—10-drawer center is designed with aluminum drawer pulls and drawer liners. Includes 3 shelves and a rubber work surface area. Powder-coated finish. Tubular steel side handles with plastic brackets.

No. 31CE53—5-drawer center includes wraparound bumpers. Molded top has small storage compartments underneath the removable hardboard work surface.

No. 31CE51—4-drawer center has wraparound bumpers. Molded top has small storage compartments underneath the removable hardboard work surface. Built-in 3-outlet power strip with reset and extension cord.

No. 31CE55—3-drawer center has wraparound bumpers. Molded top has small storage compartments underneath the removable hardboard work surface.

UTILITY CARTS

Westward®—30" and 27" carts feature lift tops and 2 fixed/2 swivel locking casters.

Proto®—Carts feature a lift top work surface, top storage compartment, and pry bar storage.



3-Drawer Utility Cart
No. J4789



1-Drawer Utility Cart
No. 2CZY3

W	D	H	No. of Drawers	Drawer Slides	Drawer Capacity	▶CHOOSE: Color	▶CHOOSE: Drawer Color	Caster Size	Brand	Item No.
Project Centers										
44 3⁄16"	31 1⁄8"	33 1⁄4"	10	Ball Bearing	99 lb.	Red	Gray	5" x 2"	Westward	**48ZF02**
34 5⁄16"	19 1⁄2"	39 5⁄16"	5	Ball Bearing, Full Extension	66 lb.	Red	Red	4" x 2"	Westward	**31CE53**
34 5⁄16"	19 1⁄2"	33 5⁄16"	4		66 lb.	Black	Black	4" x 2"	Westward	**31CE51**
34 5⁄16"	19 1⁄2"	39 5⁄16"	3		66 lb.	Red	Red	4" x 2"	Westward	**31CE55**
Utility Carts										
37 1⁄2"	20"	43"	3	Ball Bearing, Full Extension	400 lb.	Red, Black, Blue	Red, Black, Blue	6" x 2"	Proto	**J4789**
37"	20"	43"	3	Ball Bearing	100 lb.	Red	Red	5" X 1 1⁄4"	Proto	**35XP93**
30"	20"	38"	4		88 lb.	Red	Red	4" x 1 1⁄4"	Westward	**2CZY5**
30"	20"	31"	3		88 lb.	Black	Black	4" x 1 1⁄4"	Westward	**2CZY2**
30"	16"	35"	1		88 lb.	Red	Red	4" x 1"	Westward	**2CZY3**
27"	18"	32"	0	—	—	Red	No Drawers	3" x 1"	Westward	**2CZY4**


No. 54DN30


No. 54DM89


No. 414X93


No. 54DM48


No. 54DN25

KENNEDY

Tool Cabinets and Chests

SERIES	CASTERS	HANDLE DESIGN	STEEL GAUGE	DRAWER CAPACITY	DRAWER SLIDES	ACCESSORIES
K1800/K2000 Industrial	5 X 2	Tubular	18 / 20	120 Lb Single on Wide Drawers	Ball Bearing/Friction	—
Signature Series	—	Slide Heavy Duty Plated	20 / 22	—	Friction	—
Mechanic's Chests						Un-Lined
Machinist's Chests						Wool Felt Lined Drawers

W	D	H	No. of Drawers	Drawer Slides	Color	Mfr. Model	Item No.
Rolling Combination Tool Cabinets							
K1800 Industrial Cabinets, Heavy Duty							
20 ½ in	18 in	33 ¾ in	4	Ball Bearing	Brown	21040B	**54DN30**
27 in	18 in	35 in	3	Ball Bearing	Brown	273XB	**54DN22**
27 in	18 in	35 in	5	Ball Bearing	Brown	275XB	**54DN20**
27 in	18 in	35 in	7	Ball Bearing	Brown	277XB	**54DN18**
27 in	18 in	39 in	8	Ball Bearing	Brown	378XB	**54DM76**
39 ⅜ in	18 in	35 in	10	Ball Bearing	Brown	310XB	**54DM84**
39 ⅜ in	18 in	39 in	15	Ball Bearing	Brown	315XB	**54DM83**
K2000 Industrial Cabinets, Heavy Duty							
29 in	20 in	35 in	5	Ball Bearing	Brown	295XB	**54DM89**
29 in	20 in	35 in	7	Ball Bearing	Brown	297XB	**54DM87**
34 in	20 in	39 in	8	Ball Bearing	Brown	348XB	**54DM80**
Tool Chests and Side Cabinets							
K1800 Industrial Top Chest, Heavy Duty							
27 in	18 in	16 ½ in	5	Friction	Brown	285XB	**54DN13**
K1800 Side Cabinet, Heavy Duty							
13 ⅜ in	18 in	29 1⁄16 in	5	Ball Bearing	Red	185XR	**414X93**
K2000 Industrial Cabinet, Heavy Duty							
29 in	20 in	16 ½ in	5	Friction	Brown	2805XB	**54DN16**
K2000 Side Cabinet, Heavy Duty							
13 ⅜ in	20 in	29 1⁄16 in	5	Ball Bearing	Brown	205XB	**414X95**

W	D	H	No. of Drawers	Drawer Slides	Color	Mfr. Model	Item No.
Signature Series Machinist's Base Cabinets, Heavy Duty							
21 ⅝ in	9 ⅝ in	7 ⅞ in	2	Friction	Brown	MC22B	**54DM38**
26 ¾ in	12 ½ in	9 ½ in	2	Friction	Brown	5150B	**54DM48**
28 ⅛ in	9 ⅝ in	7 ⅞ in	2	Friction	Brown	MC28B	**54DM37**
Signature Series Machinist's Top Chests, Heavy Duty							
20 ⅛ in	8 ½ in	13 ⅜ in	7	Friction	Brown	520B	**54DM47**
26 ¾ in	8 ½ in	13 ⅜ in	8	Friction	Brown	526B	**54DM45**
26 ¾ in	8 ½ in	18 in	11	Friction	Brown	52611B	**54DM46**
26 ⅛ in	12 ⅛ in	18 ⅞ in	11	Friction	Brown	3611B	**54DM78**
20 ⅛ in	8 ½ in	13 ⅜ in	3	Friction	Brown	620B	**54DM39**
Signature Series Mechanic's Base Cabinets, Heavy Duty							
26 ¾ in	12 ½ in	11 ¾ in	2	Friction	Brown	2602B	**54DN29**
26 ¾ in	12 ½ in	11 ¾ in	3	Friction	Brown	2603B	**54DN28**
26 ¾ in	12 ½ in	11 ¾ in	4	Friction	Brown	2604B	**54DN27**
Signature Series Mechanic's Top Chests, Heavy Duty							
26 ⅛ in	12 ⅛ in	14 ¾ in	3	Friction	Brown	263B	**54DN26**
26 ⅛ in	12 ⅛ in	14 ¾ in	6	Friction	Brown	266B	**54DN25**
26 ⅜ in	12 ⅛ in	18 ⅞ in	10	Friction	Brown	360B	**54DM79**

For Use With	Item No.
Organizer Tray	
Rolling Cabinets	**414X92**


No. 35XR82


No. 35XR84

FlexCart™

Rolling Tool Cabinets, Bag, and Set

Compact, easy-to-maneuver cabinets provide storage capability and allow you to customize to your specific industry such as healthcare, hospitality, maintenance or engineering.

Rolling Tool—Feature a large work surface with a small vise. Include a tool bag in the cart handle and a front tool storage cabinet, both with labeled pockets for tools. Move smoothly on 8" nonmarring wheels and 5" lockable front casters. No. 35XR82 comes equipped with a tool bag containing 84 commonly used tools. For more detailed information, go to Grainger.com® and search "FlexCart".

Tool Bag—Includes handle and shoulder strap for easy transport. For detailed information on the types of tools included, see Grainger.com®.

Description	W	D	H	No. of Drawers	Drawer Capacity	Mfr. Model	Item No.
Rolling Tool Cabinet with Tools	14¼"	37½"	45"	7	75 lb.	FC100-ECSS-WT	**35XR82**
Rolling Tool Cabinet w/o Tools	14¼"	37½"	45"	7	75 lb.	FC100-ECSS-NT	**35XR83**
84-Pc. Tool Set with Bag	10"	12"	10"	—	—	FC100-ETB	**35XR84**
130-Pc. Master Tool Set						FC100-EC-TS	**35XR85**


No. 53PC98


No. 53PC95

Mobile-SHOP

Rolling Carts

CAPACITY

These versatile carts give you large storage and work space. Provide storage for large items such as spray bottles and air filters. Feature lockable cover, storage drawers, and front cabinet cover. Motion sensing alarm alerts you when objects are near by.

H30

These rolling carts feature lockable cover, storage drawers, and front cabinet cover. Motion sensing alarm alerts you when objects are near by.

Description	W	D	H	No. of Drawers	Drawer Capacity	Mfr. Model	Item No.
Capacity Rolling Cart without Tools and Tool Bag	21"	40"	40"	8	60 lb.	MS-CAPACITY-B	**53PC98**
Capacity Rolling Cart with Tool Bag	21"	40"	40"	8	60 lb.	MS-CAPACITY-EMTY	**53PC99**
H30 Rolling Cart, Battery Powered Drill	16"	36"	40"	5	60 lb.	MS-H30-B	**53PC95**
H30 Rolling Cart, Empty Part Boxes, Empty Tool Bag, Empty Tool Module, Shop Vacuum, Plunger	16"	36"	40"	5	60 lb.	MS-H30-EMTY	**53PC96**


No. 53PC90


No. 4HFZ4


No. 53PC93


No. 4HFZ3


No. 39CE49

Mobile-SHOP

Tool Carts and Accessories

- For more detailed information on cart contents, see Grainger.com®

HT Engineering Carts—Easily transportable carts come fully assembled, stocked with more than 230 professional-quality hand tools and more than 160 critical small parts needed for facilities maintenance. Each tool has its own numbered and labeled pocket or bin. Cart disassembles to fit into a small vehicle.

Preventative Maintenance Carts—These carts incorporate all the features of the HT Engineering Cart, but with the ability to carry more parts.

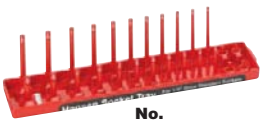
No. of Pieces	No. of Sockets/ Accs.	No. of Wrenches	No. of Pliers	No. of Screwdrivers	No. of Striking Tools	No. of Misc. Tools	No. of Consumable Parts	Mfr. Model	Item No.
HT Engineering Carts									
90	10	14	4	19	4	14	12	MS-SD-CEC-VSE	**53PC89**
90	10	14	4	19	4	8	11	MS-SD-CEC	**53PC90**
144	35	27	2	2	9	69	0	MS-CEC-PRO	**6ETU9**
1,154	24	19	3	3	6	117	980	MS-CEC-B	**6ETV1**
1,257	38	30	7	8	10	164	1,000	MS-CEC-ND	**4HFZ8**
1,258	38	30	7	8	10	165	1,000	MS-CEC	**4HFZ2**
PM Carts									
90	10	14	4	19	4	8	11	MS-CAPACITY	**53PC97**
104	14	11	4	4	4	47	20	MS-CTB	**4HFZ4**
120	29	14	7	22	4	14	12	MS-H3O-ND	**53PC94**
121	29	14	7	22	4	14	12	MS-H3O	**53PC93**
149	35	27	2	2	9	74	0	MS-CPMC-PRO	**6ETU8**
1,037	24	19	3	3	6	126	980	MS-CPMC-B	**6ETV0**
1,140	38	30	7	8	10	172	1,000	MS-CPMC-ND	**4HFZ9**
1,141	38	30	7	8	10	173	1,000	MS-CPMC	**4HFZ3**

H	W	No. of Drawers	Color	Mfr. Model	Item No.
Empty Rolling Tool Cart: For use with HT Engineering Cart					
39"	22"	0	Black	MS-CEC-Empty	**39CE50**
Empty Rolling Tool Cart: For Use With PM Cart					
39"	22"	4	Black	MS-CPMC-EMPTY	**39CE49**
Empty Portable Tool Boxes with Drawers					
39"	22"	3	Black	MS-SD-EMTY	**53PC92**
41"	22"	3	Black	MS-SD-EMTY-VSE	**53PC91**

Description	Mfr. Model	Item No.
Accessories		
Engineering Cart Locker	MS-ECL	**4HFZ7**
Golf Cart Utility Bed	MS-GCUB	**4HFZ6**
Pick Rack	MS-PRC	**4HFZ5**
PM Accessory Kit	MS-PMAK	**4HGA1**
Engineering Cart Locker	MS-PMCL	**39CE51**


No. 31XR35


No. 5WXR3


No. 8ZGM7


No. 5NLN4


No. 5WXR5

Tool Organizers

STANLEY · Aerial Tool Bin® · Westward · Hansen Global Inc. · PROTO®

Description	L	W	H	Color	Brand	Item No.
Parts Organizers						
12-Compartment w/Clear Top	19 13/16"	10 1/2	3 5/32	Black/Clear/Yellow	STANLEY	**31XR35**
18-Compartment Case	16 13/16"	9 1/8	12 13/32	Black	STANLEY	**31XR37**
Triangular Tray for Aerial Platforms	17"	21"	9"	Orange	Aerial Tool Bin	**6TWA4**
Screwdriver Holder						
Magnetic Screwdriver Holder	11 1/4"	2 1/4"	1 3/8"	Red	Westward	**5NND8**
Socket Holders						
5-Row Socket Tray, 1/4", 3/8", 1/2"	25"	9 1/4"	2"	Red and Black	Westward	**5WXR3**
Hex/Torx Socket Bit Tray	9 3/16"	3 1/4"	5/8"	Red	Hansen	**5NLN2**
Magnetic 3/8" Drive Socket Holder, 3/8"	14"	2 3/4"	1 5/8"	Red	Westward	**5NNE5**
Magnetic 3/8" Drive Socket Holder, 3/8"	14"	2 13/16"	1 5/8"	Blue	Westward	**5NNE6**
Magnetic Socket Holder, 1/4"	9 3/8"	2 1/8"	1 3/8"	Red	Westward	**5NNE3**
Magnetic Socket Holder, 3/8"	18 3/4"	1 3/8"	1 1/4"	Red and Black	Westward	**5WXR5**
Socket Tray, 1/2 In Dr., Metric, Standard and Deep	20 1/2"	3 1/2"	3 5/8"	Gray	Hansen	**8RMV4**
Socket Tray, 1/2 In Dr., SAE, Standard and Deep	18 1/8"	4"	3 5/8"	Red	Hansen	**9LGA7**

Description	L	W	H	Color	Brand	Item No.
Socket Tray, 1/4" Dr., Metric, Standard and Deep	9 1/16"	2 3/16"	2 1/2"	Gray	Hansen	**9NT22**
Socket Tray, 1/4" Dr., SAE, Standard and Deep	9 1/16"	2 3/16"	2 1/2"	Red	Hansen	**8ZGM7**
Socket Tray, 3/8" Dr., Metric, Standard and Deep	13 1/4"	3"	3"	Gray	Hansen	**8CP76**
Socket Tray, 3/8" Dr., SAE, Standard and Deep	13 1/4"	3"	3"	Red	Hansen	**8RLW6**
Socket Tray, Tool Organizer	20 1/2"	8"	4 1/2"	Red/Gray	Hansen	**38HY82**
Tool Control Foam						
Chemical Resistant, 2-Layer	39"	26 1/4"		Black/Red	Proto	**2MV16**
Chemical Resistant, 2-Layer	39 1/2"	26 1/4"	—	Blue/Yellow	Proto	**2MV17**
Tool Holders						
Magnetic Tool Holder	10 3/4"	2 1/4"	3/8"	Natural and Red	Westward	**5NNE2**
Magnetic Tool Holder	12"	12"	1/4"	Natural	Westward	**5NNE0**
Wrench Racks						
Fractional Wrench Rack	12 1/4"	6 1/2"	1 1/2"	Red	Hansen	**5NLN3**
Magnetic Wrench Rack	15 3/4"	2"	2 1/2"	Black and Red	Westward	**5NND7**
Metric Wrench Rack	12 1/4"	6 1/2"	1 1/2"	Gray	Hansen	**5NLN4**
Universal Wrench Rack	12 1/4"	6 1/2"	1 1/2"	Blue	Hansen	**5NLN5**



No. 5RRP5

DEWALT STANLEY WESTWARD

Portable Tool Boxes

Plastic Portable 3-Drawer—Shell is made from heavy-duty, high-impact polypropylene. Steel drawers have full-extension slides that lock when lid is closed.

ToughSystem®—No. 14C634 and 14C635 are lockable, waterproof, and stackable with side latches. Integrated water seal provides content protection. Structural foam wall is 4mm-thick. Nos. 14C639 and 7AY33 have adjustable brackets for tailored configurations and central locking mechanism secures the cases to the frame.

TSTAK®—Flexible platform allows different combinations. Units can stack on top of each other, connected by durable side latches.

Description	Overall Width	Overall Depth	Overall Height	Locking System	Primary Tool Box Color	Brand	Item No.
Plastic Portable Tool Boxes							
Folding Top	12 3/10 in	19 9/10 in	6 3/5 in	None	Black	STANLEY	**31XR34**
	26 in	12 in	12 in	Padlock Hasp	Gray	STANLEY	**5RRP5**
Plastic Portable Tool Box Set							
3-Pc. Nested Tool Box	16 1/2 in, 19 1/2 in, 23 1/2 in	8 1/2 in, 9 1/2 in, 11 45/64 in	13 in, 7 45/64, 10	None	Black	Westward	**24Y988**
ToughSystem®							
Large Case	21 5/8 in	13 1/4 in	13 1/4 in	Padlock Hasp	Black	DeWalt	**14C634**
XL Case	21 5/8 in	14 3/8 in	16 in	Padlock Hasp	Black	DeWalt	**14C635**
Tool Box Carrier	26 3/4"	9 1/4"	37 5/8"	—	—	DeWalt	**14C639**
Rolling Tool Box Set	26 3/4 in	14 3/8 in	37 5/8 in	Padlock Hasp	Black	DeWalt	**7AY33**
TSTAK®							
Deep Drawer Case	13 in	4 1/2 in	5 in	None	Black	DeWalt	**28AD29**
2-Drawer Case	13 in	4 1/2 in	5 in	Padlock Hasp	Black	DeWalt	**28AD30**
Case Organizing Lid	13 in	4 1/2 in	5 in	Padlock Hasp	Black	DeWalt	**28AD33**
Flat Top Case	17 1/4 in	13 in	6 3/8 in	Padlock Hasp	Black	DeWalt	**28AD31**
Case with Organizer Top	17 in	13 in	7 in	Padlock Hasp	Black	DeWalt	**28AD32**
Deep Box Case	17 1/4 in	13 in	11 7/8 in	Padlock Hasp	Black	DeWalt	**28AD34**
4-Wheeled Carrier	17 11/64"	19 9/64"	7 1/8"	—	—	DeWalt	**28AD35**



No. 35XR80

WESTWARD

Nipple Boxes

These sturdy and portable steel caddies allow you to stock a variety of nipple lengths. Keep your inventory organized to take with you on the go.

No. of Compart.	Overall Width	Overall Depth	Overall Height	Item No.
27	23 7/8"	8 9/16"	6 9/16"	**35XR74**
30	19 5/8"	6 9/16"	6 1/2"	**35XR75**
40	18"	7 1/8"	6 5/8"	**35XR76**
42	12 1/2"	7"	6 5/8"	**35XR77**
50	14 1/8"	7 1/8"	6 5/8"	**35XR78**
66	12 1/2"	7"	6 9/16"	**35XR79**
77	10 1/2"	7"	6 5/8"	**35XR80**



No. 4R138



No. 35XR63



No. 35XR73



No. 36Y011

Portable Steel Tool Boxes

- Heavy-plated, rust-resistant, lockable latches

WESTWARD PROTO STANLEY DEWALT

Overall Width	Overall Depth	Overall Height	Primary Tool Box Color	Brand	Mfr. Model	Item No.
Cantilever Tool Boxes						
17"	8"	8 1/4"	Red	Westward	—	**10J171**
18"	10"	14"	Brown	Proto	J9951	**4R138**
Tool Boxes						
2-Drawer						
20 1/2"	8 5/8"	13 3/4"	Red	Westward	—	**10J165**
Folding Top Handle						
19 29/32"	12 5/16"	9 19/32"	Black, Yellow	STANLEY	STST19900	**31XR36**
Padlock Hasp, Folding Side, Folding Top Handle						
26"	8 1/2"	9 1/2"	Red	Proto	J9969R	**40JD14**
Padlock Hasp, Folding Side Handle						
20 1/4"	6 1/2"	3 3/8"	Red	Proto	J5694R	**40JD20**
20 1/8"	7 15/16"	3 3/8"	Red	Proto	J5695R	**40JD33**
25 3/16"	9 1/16"	4 1/16"	Red	Proto	J5696R	**40JC89**
26 3/4"	14 1/2"	4"	Red	Proto	J5697R	**40JD15**
Padlock Hasp, Folding Top Handle						
19"	7"	7"	Red	Proto	J9971R	**40JD17**
19 1/2"	8"	7"	Red	Proto	J9977R	**40JC92**
19 1/4"	6"	4"	Red	Westward	—	**36Y010**
20"	8 1/2"	9 1/2"	Red	Proto	J9975R	**40JC95**
16"	7"	7 1/2"	Black	Westward	44ZJ82	**44ZJ82**
20"	7"	7 7/8"	Black	Westward	44ZJ90	**44ZJ90**
20 1/2"	8 19/32"	13 3/4"	Black	Westward	44ZJ87	**44ZJ87**

Overall Width	Overall Depth	Overall Height	Primary Tool Box Color	Brand	Mfr. Model	Item No.
19 1/4"	6"	4"	Black	Westward	44ZJ85	**44ZJ85**
11 57/64"	6 29/64"	5 45/64"	Black	Westward	44ZJ83	**44ZJ83**
23"	12"	10 1/2"	Black	DeWalt	DWST23001	**53JF14**
28"	12 39/64"	11 39/64"	Black	DeWalt	DWST28001	**53JF15**
Socket Storage Box						
6 1/2"	4 1/4"	1 1/16"	Red	Westward	35XR63	**35XR63**
10 1/4"	5 1/8"	1 3/4"	Red	Westward	35XR65	**35XR65**
14 1/4"	6 1/2"	2 5/8"	Red	Westward	35XR68	**35XR68**
Tool Tote						
20 1/8"	10 1/16"	5 1/16"	Gray	Westward	35XR72	**35XR72**
20 1/8"	10 1/16"	5 1/16"	Gray	Westward	35XR73	**35XR73**
Top Handle						
19"	6 1/4"	3 7/8"	Red	Proto	J5496R	**40JD23**
Tool Boxes w/Trays						
11 15/16"	6 15/32"	5 5/8"	Red	Westward	—	**32PK25**
16"	7"	7 1/2"	Red	Westward	—	**36Y011**
20"	7 7/8"	9"	Red	Westward	—	**36Y008**
24"	8"	9"	Red	Westward	—	**10J162**
24"	8"	9"	Black	Westward	—	**44ZJ86**
30"	8"	9"	Black	Westward	—	**44ZJ88**
Carpenter's						
30"	8"	9"	Red	Westward	—	**10J164**
32"	8 1/2"	9 1/2"	Brown	Proto	J9979-NA	**4R158**


No. 2FDB7


No. 1DZE9


No. 1RG71


No. 39UK33

Structural Foam and Plastic Storage Boxes

STANLEY CONTICO

STRUCTURAL FOAM

Recessed, soft-grip handles. Boxes 20" to 26" include a removable inner tray.

Utility Pro TuffBin®—Smaller version of the 37" Pro Tuff Bin is ideal for use in SUVs, vans, and small trucks. Includes top lid organization compartments and 2 recessed beverage holders.

Xtreme Pro TuffBin®—Large-capacity, virtually rustproof bin is the tactical gear box of choice for the United States military. No. 1RG71 includes lock and keys.

PLASTIC

Portable Tool Box—All boxes have removable inner tray. No. 39UK32 features a lightweight design with metal latches and hinge pin. Plastic handle is molded on top. Step Tool Box No. 39UK30 features recessed, nonslip lid and an attachable cord holder.

Rolling Tool Boxes—No. 39UK31 features a removable tray with ample storage space beneath, pull-out telescoping handle, and professional-grade wheels. No. 39UK33 is weather-resistant and comes fully assembled with a plastic molded handle on top.

Rolling Storage Locker—Stackable, wheeled locker features nickel-plated, rust-resistant latches and metal hinge pins provide strength. Padlock eye accommodates 5/8" padlock or smaller. Side grips are molded in.

Tool Caddy—Handy organizer for many household projects is constructed of high-impact, durable plastic with a wide handle for easy carrying.

Description	Overall Width	Overall Depth	Overall Height	Color	Locking System	Brand	Mfr. Model	Item No.
Structural Foam								
Portable Tool Box	17 29/32"	8 3/4"	12 7/64"	Black	Padlock Hasp	STANLEY	FMST18001	**31XR33**
	20"	9 3/4"	10 1/2"	Black	Padlock Hasp	Contico	8200GY	**1RG72**
	26"	8 3/4"	10 1/2"	Black	Padlock Hasp	Contico	8260-4	**1RG73**
Rolling Tool Box, 13,340 cu. in.	22 3/16"	37 1/2"	23 1/4"	Black	Lock Cylinder	STANLEY	037025H	**2FDB7**
Utility Pro TuffBin®	35"	15 1/2"	14"	Black	Padlock Hasp	Contico	3514NLBK	**1DZE9**
Xtreme Pro TuffBin®	37"	21"	20"	Black	Padlock Hasp	Contico	3725NL	**1DZE8**
	37"	21"	20"	Black	Lock Cylinder	Contico	3725	**1RG71**
Plastic								
Portable Tool Box	10 1/4"	19"	9 1/4"	Gray	Padlock Hasp	Contico	G7190GY-4	**39UK32**
Rolling Storage Locker, 5429 cu. in.	32"	17"	12 1/4"	Black	Padlock Hasp	Contico	1320BK-1	**2VE95**
Rolling Tool Box	—	—	—	Black	Latch	STANLEY	STST18613	**31XR40**
	11"	18 1/2"	24 13/16"	Black	Latch	STANLEY	STST18613	**31XR40**
	22 1/2"	37 3/4"	20"	Black	Padlock Hasp	Contico	GUK3725	**39UK33**
	23"	15"	20"	Black	Padlock Hasp	Contico	G1921BK-4	**39UK31**
Step Stool Tool Box	12 1/2"	18 1/2"	13 1/4"	Gray	Padlock Hasp	Contico	G9402GYBK	**39UK30**
Tool Caddy	15 3/4"	11"	6 3/4"	Gray	None	Contico	6111GY	**38W623**

Tool Cases

WESTWARD

Multifunctional cases are designed to hold and organize commonly used tools in many applications and at work sites. Ideal for craftsmen, plumbers, contractors, maintenance personnel, or technicians.

Description	No. of Pockets	Type	W	D	H	Color	Item No.
HDPE Resin	61	High Impact	19 1/8"	15"	9"	Black	**2WLK1**
ABS Plastic	37	Small	19 1/2"	16 11/32"	7 11/16"	Black	**45KK76**
	—	Small	19 1/2"	16 11/32"	7 11/16"	Black	**45KK77**
	37	Medium	19 11/16"	16 3/4"	8 1/4"	Black	**45KK78**
	—	Medium	19 11/16"	16 3/4"	8 1/4"	Black	**45KK79**
	37	Large	20 9/32"	17 5/16"	10"	Black	**45KK80**
	—	Large	20 9/32"	17 5/16"	10"	Black	**45KK81**


No. 45KK81

Flambeau PLANO STANLEY DEWALT

Parts Storage Utility Boxes

Keep supplies carefully organized.

Flambeau—Removable interior tray allows greater access to box. Features include positive locking latches, recessed handles, and padlock tab (lock not included). No. 3W561 features 7 1/4" saw blade holder in lid.

STANLEY—Heavy-duty construction ensures long product life. Nos. 19YU43, 19YU44, and 19YU45 have nickel-plated metal latches. Nos. 14C629, 14C630 and 14C631 feature a single center latch, and small parts compartments on top.

DeWALT—Heavy-duty construction ensures long product life. No. 13U673 has a detachable top case organizer for small parts with an integrated handle, and long metal carrying handle.

Plano—Heavy-duty 26" box features reinforced metal latches and partitioned lift-out tray. Includes 2 organizers for small parts storage.


No. 2W785


No. 14C629


No. 13U673


No. 36N205

	Overall Dim. W	D	H	Color	Brand	Item No.
Standard						
	14 1/2"	7 1/2"	5 1/4"	Gray	Flambeau	**2W785**
	20 1/4"		8 7/8"	Gray	Flambeau	**2W784**
	20 1/4"	9 1/8"	10 7/8"	Gray	Plano	**36N220**
	23"		10 1/2"	Gray	Flambeau	**3W561**
	26"	9 1/8"	11"	Gray	Plano	**36N221**

	Overall Dim. W	D	H	Color	Brand	Item No.
Premium						
	14 1/2"	7 1/2"	5 1/4"	Black/Yellow	Flambeau	**19YZ98**
	15 1/2"	8 3/4"	10-3/20"	Black, Yellow	STANLEY	**14C629**
	16"	8 3/16"	7 13/64"	Black, Yellow	STANLEY	**19YU43**
	16 3/8"	8 3/4"	7 1/8"	Gray	Flambeau	**19YZ85**
	19"	9 3/4"	9 3/4"	Black, Yellow	STANLEY	**19YU44**
	19"	10 1/2"	9 1/4"	Black, Yellow	STANLEY	**14C630**
	23 1/2"	11"	10 1/4"	Black, Yellow	STANLEY	**14C631**
	23 1/2"	11 3/8"	10 7/8"	Black, Yellow	STANLEY	**19YU45**
	24"	12 3/4"	9 7/8"	Black/Yellow	DeWALT	**13U673**
Weather-Resistant						
	15"	8"	6 1/4"	Orange	Plano	**36N205**



Jobsite Box
No. 499N06



Jobsite Box
No. 20UR03



Jobsite
Piano Box
No. 1MCF4



Piano Box
No. 36FW29
(Tools not
Included)



Slope Lid Box
No. 13R525

JOBOX KNAACK WESTWARD

Jobsite Boxes and Storage Cabinets

- Welded steel construction
- Powder-coated finish

JOBSITE BOXES

JOBOX—Site-Vault security system has full-length steel lock console with 3 locking points and a reflective orange tape indicating when the chest is unlocked. EZ-Loader skid bolsters allow for easy load and unload from any side. Staked and welded ⅜" lid hinge with ¼" steel pin and 1" knuckles for additional security. No. 6YG34 includes a cut-out for tank supply hoses.

Knaack—3-point latch; reinforced, recessed lock housing; and welded piano hinges help prevent pry-ins. Include 4-way skids and a pass-through electrical grommet that allows easy, weatherproof power cord access. Recessed handles. Optional casters available. No. 13R538 portable box is perfectly sized to hold welders' gloves, goggles, tools, and rods. Hemmed edges ensure safe handling.

PIANO BOXES

Electrical pass-through grommet provides easy, weatherproof power cord access. Optional casters available.

JOBOX—Gas spring door lifts with quick-release mounts have guards to protect them from damage and jamming. Storage bins on side walls and back wall. Door opens a full 90° for easy access. Lift-N-Stow shelf offers space for larger items. Nos. 1MCG1 and 1MCG2 feature a reinforced door ramp and stainless steel hinge.

Knaack—Reinforced lock housing, and staked and welded heavy-duty hinges protect against pry-ins. Nos. 13R512 and 14V866 feature a 4-point crane lift system for safe center-point rigging and hoisting. With integrated drill- and weather-resistant recessed lock and handle and nonlinear 3-point latch system. Include 2 keys and 4-way skids.

SLOPE-LID BOXES

Forklift-accessible from all sides.

JOBOX—Reinforced 3-position lid with gas spring guard provides a flat work surface. Full-length shelf tilts for nearly 12" of additional storage height. Locks with 1 padlock; 3-point lock engagement and bolt cutter-proof housing.

Knaack—Lightweight chest has 1-time lock installation for a range of security level needs. Built-in tool tray helps keep contents organized.

W	D	H	Storage Cap.	Color	Brand	Mfr. Model	Item No.
Jobsite Boxes							
72 in	24 in	27 ¾ in	23.2 cu ft	Brown	Crescent Jobox	1-658990	**1MCF2**
72 in	24 in	23 in	24.5 cu ft	Tan	Knaack	2472	**13R526**
60 in	24 in	27 ¾ in	19.3 cu ft	Brown	Crescent Jobox	1-655990D	**1MCE9**
60 in	24 in	23 in	20.2 cu ft	Tan	Knaack	60	**13R527**
60 in	24 in	23 in	20.0 cu ft	Tan	Knaack	2060	**13R530**
60 in	24 in	23 in	23.2 cu ft	Blue	Westward	499N06	**499N06**
48 in	30 in	35 in	20.5 cu ft	Tan	Knaack	4830-D	**20UR03**
48 in	30 in	33 ⅜ in	24.3 cu ft	Brown	Crescent Jobox	1-656990	**1MCF1**
48 in	30 in	29 in	25.2 cu ft	Tan	Knaack	4830	**13R528**
48 in	24 in	28 ¼ in	16.0 cu ft	Tan	Knaack	4824	**13R531**
48 in	24 in	28 in	15.4 cu ft	Blue	Westward	499N08	**499N08**
48 in	24 in	27 ¾ in	15.4 cu ft	Brown	Crescent Jobox	1-654990	**1MCE8**
48 in	24 in	23 in	16.0 cu ft	Tan	Knaack	2048	**13R532**
42 in	20 in	23 ¾ in	9.3 cu ft	Brown	Crescent Jobox	1-653990	**1MCE7**
42 in	19 in	18 in	9.0 cu ft	Tan	Knaack	42	**13R533**
39 ⅓ in	27 in	48 ¼ in	29.4 cu ft	Tan	Knaack	118-M	**410Y53**
36 in	20 in	23 ¾ in	8.3 cu ft	Brown	Crescent Jobox	1-652990	**1MCE6**
36 in	19 in	21 ½ in	7.0 cu ft	Tan	Knaack	36	**13R534**
32 in	19 in	18 in	4.5 cu ft	Blue	Westward	499N07	**499N07**
32 in	19 in	13 in	5.0 cu ft	Tan	Knaack	32	**13R535**
32 in	19 in	13 in	5.0 cu ft	Tan	Knaack	2032	**13R536**
31 in	18 in	15 ½ in	4.0 cu ft	Brown	Crescent Jobox	651990D	**6YG35**
30 in	30 in	75 in	57.6 cu ft	Tan	Knaack	118-01	**410Y52**
30 in	16 in	12 in	3.3 cu ft	Brown	Crescent Jobox	650990D	**6YG34**
30 in	16 in	12 in	3.3 cu ft	Tan	Knaack	30	**13R538**
28 in	12 in	12 in	2.3 cu ft	Tan	Knaack	28	**13R537**
Jobsite Piano Boxes							
74⅛"	30⅛"	49⅞"	56.5 cu. ft.	Brown	Crescent Jobox	1-689990	**1MCF6**
74 ½ in	35 ½ in	60 ¼ in	85.7 cu ft	Brown	Crescent Jobox	1-685990	**1MCF9**
74 in	30 in	50 in	56.5 cu ft	Brown	Crescent Jobox	1-684990	**1MCG2**
72 in	30 in	49 in	57.5 cu ft	Tan	Knaack	90	**13R520**
72 in	30 in	46 in	57.5 cu ft	Tan	Knaack	91	**13R517**
66 in	30 in	54 ½ in	48.0 cu ft	Tan	Knaack	1000	**13R512**
66 in	30 in	36 in	31.0 cu ft	Tan	Knaack	1010	**14V866**
61 in	35 in	50 in	49.8 cu ft	Blue	Westward	499N10	**499N10**
60 in	31 11/32 in	49 ½ in	47.5 cu ft	Brown	Crescent Jobox	1-682990	**1MCF4**
60"	30"	50"	48.0 cu. ft.	Brown	Crescent Jobox	1-683990	**1MCG1**
60 in	30 in	49 in	43.8 cu ft	Tan	Knaack	89-D	**36FW29**
60 in	30 in	46 in	47.8 cu ft	Tan	Knaack	89	**13R522**
60 ⅛ in	30 ⅛ in	37 11/16 in	34.4 cu ft	Brown	Crescent Jobox	1-688990	**1MCF5**
60 in	30 in	34 in	35.3 cu ft	Tan	Knaack	69	**13R524**
48 ⅛ in	31 11/32 in	49 ½ in	38.0 cu ft	Brown	Crescent Jobox	1-681990	**1MCF7**
48 in	30 in	49 in	36.2 cu ft	Tan	Knaack	79-D	**36FW28**
48 in	30 in	46 in	38.2 cu ft	Tan	Knaack	79	**13R523**
Jobsite Storage Cabinets							
90 in	30 in	65 in	60.9 cu ft	Tan	Knaack	100-MT	**423L26**
72 in	24 in	51 in	48.0 cu ft	Tan	Knaack	129-MT	**423L25**
60 in	30 in	60 in	59.4 cu ft	Tan	Knaack	139-MT	**423L24**
60 in	28 in	61 in	48.3 cu ft	Blue	Westward	499N09	**499N09**
Slope Lid Boxes							
60 in	30 in	39 ½ in	32.7 cu ft	Brown	Crescent Jobox	1-680990	**1MCF3**
60 in	30 in	37 in	31.0 cu ft	Tan	Knaack	3068	**13R525**
Slope Lid Jobsite Box							
60 in	30 in	40 in	30.4 cu ft	Blue	Westward	499N11	**499N11**
Welders Box							
31 in	18 in	13 in	3.3 cu ft	Blue	Westward	499N12	**499N12**

JOBOX KNAACK ★WESTWARD

Onsite Storage Cabinets and Mobile Workbenches

- Parts and accessories are available at Grainger.com®; search by Item No. and click "Optional Accessories" or "Repair Parts" tab

DROP FRONT JOBSITE CHESTS

Feature a ⅜" lid hinge, with wide 1" knuckles and ¼" welded hinge pin. Recessed handles are extra tall and deep. No. 4AXX2 extra-wide low-incline drop-front ramp has 37% more capacity for storing generators and large tools. Includes power cord access hole.

JOBSITE STORAGE CABINETS

JOBOX® models are reinforced 16-ga. steel with a locking system that protects padlocks. Reinforced door frame and shelves prevent warping. Built-in door shelves add extra storage space. Rain Drain™ system channels moisture away from padlock area to prevent rusting. Sturdy steel Westward® cabinets are designed with a padlock. They are water-resistant and have powder coat. KNAACK® cabinets feature a baked-on powder-coat finish for weather resistance and durability. They are designed with heavy-duty steel construction and fully arc-welded seams. WATCHMAN® IV locks system features 3-point latching and recessed lock. Recessed handles provide positive gripping even with a gloved hand. Jobsite Chest, No. 8RT51 features fully adjustable interiors, 18-ga. steel drawer, ball bearing glides, 2 fixed and 2 lockable swivel casters, and 75-lb. capacity drawers.

JOBSITE FIELD OFFICES

JOBOX® lockable field box can be propped into a flat working surface. Features overhead tube storage, rain gutters, door safety pin latch, and skid bolsters. KNAACK® WATCHMAN® 5 lock system features heavy-gauge double arches and vertically mounted recessed lock that resist drill-outs, prying, and cutting for superior tamper and weather resistance. Heavy-duty gas strut allows for smooth opening and closing. Bottom doors interlock with body to provide maximum pry-resistance. Caster-ready 4-way skids are constructed of heavy-duty 7-ga. steel. Baked on powder coat finish for weather resistance and durability.

MOBILE CABINET WORKBENCHES

KNAACK ® workbenches have a baked-on powder coat finish for weather resistance and durability. Heavy-duty steel construction with arc-welded seams. WATCHMAN® IV lock system includes 3-point latching an recessed lock. Full-length staked piano hinges resist pry-ins. Westward® Nos. 24Y922 includes wheels, handles, and adjustable drawers. JOBOX® models feature an adjustable interior drawer and shelf height. Feature heavy-duty ball bearing drawer slides, built-in door shelves, and push handles for each side. 2 fixed and 2 lockable swiveling casters. No. 6YG43 has 150-lb. drawer capacity. No. 6YG42 has 75-lb. drawer capacity.

JOBSITE ROLLING CLAM SHELL CABINET

JOBOX® cabinets feature 2 movable shelves and 4 fixed-height shelves. Vertical storage area has 3 hanging hooks and private locking storage bin. Heavy-duty hasp. Includes eight 4" casters; 3 swiveling, 1 fixed lockable per side. KNAACK® cabinets feature 16-ga. steel construction with arc-welded seams. Casters allow one person to maneuver. 1200 lb. load capacity. Vertical storage area features a bracket for hanging extension cords or tool belts.

W	D	H	Description	Storage Capacity	Color	Brand	Mfr. Model	Item No.
Drop Front Drop Front Jobsite Boxes								
60 in	31 in	45 in	Built-In Storage Bins, 16-ga.	41.5 cu ft	Brown	Crescent Jobox	1-657990	**4AXX2**
Jobsite Storage Cabinets								
32 in	16 in	36 in	2-Door, 3 Shelves	10.6 cu ft	Tan	Knaack	33	**14V867**
49 in	26 ⅞ in	40 ⅝ in	2-Door, 0-Drawer, Casters	30.6 cu ft	Red	Crescent Jobox	677990	**8RT51**
60 ⅛ in	24 ¼ in	60 ¾ in	2-Door, 12 Shelves	47.5 cu ft	Brown	Crescent Jobox	1-694990	**6YG50**
60 ⅛ in	24 ¼ in	60 ¾ in	2-Door, 9 Shelves	47.5 cu ft	Brown	Crescent Jobox	1-697990	**6YG51**
60 in	24 in	60 in	2-Door, 3 Shelves	47.5 cu ft	Tan	Knaack	111	**13R516**
60 in	24 in	60 in	2-Door, 6 Shelves	47.5 cu ft	Tan	Knaack	109	**13R518**
60 in	30 in	60 in	2-Door, 4 Shelves, 7 Drawers	54.9 cu ft	Tan	Knaack	112	**13R503**
60 ⅛ in	30 ¼ in	60 ¾ in	2-Door, 4 Shelves, 8 Drawers	58.7 cu ft	Brown	Crescent Jobox	1-679990	**2VUY2**
60 ⅛ in	30 ¼ in	60 ¾ in	2-Door, 11 Shelves	58.7 cu ft	Brown	Crescent Jobox	1-698990	**6YG52**
60 in	30 in	60 in	4-Door, 3 Shelves	59.4 cu ft	Tan	Knaack	99	**13R510**
60 in	30 in	60 in	2-Door, 6 Shelves	59.4 cu ft	Tan	Knaack	139	**13R515**
60 ⅛ in	32 ¼ in	60 ¾ in	4-Door, 8 Shelves	63.7 cu ft	Brown	Crescent Jobox	1-695990	**2VUY3**
66 in	30 in	54 ½ in	2-Door, 3 Shelves	52.0 cu ft	Tan	Knaack	1020	**13R509**
72 in	24 in	51 in	2-Door, 6 Shelves, 18 Bins	48.0 cu ft	Tan	Knaack	129	**13R514**
72 in	24 in	60 ¾ in	2-Door, 11 Shelves	49.0 cu ft	Brown	Crescent Jobox	1-693990	**6YG49**
Jobsite Field Offices								
60 in	44 in	82 ½ in	6 Shelves, 16-ga.	120.7 cu ft	Tan	Knaack	119-02	**14V855**
63 ½ in	42 ½ in	80 in	3 Shelves, 16-ga.	104.0 cu ft	Brown	Crescent Jobox	1-674990	**1MCF8**
Mobile Cabinet Workbenches								
26 in	25 in	34¼ in	1-Door, 0-Drawer, 4 in Casters	—	Tan	Knaack	35	**453U51**
26 in	25 in	34 ¼ in	1-Door, 2-Drawer, 4 in Casters	—	Tan	Knaack	38	**453U52**
40 ¾ in	25 in	37 ½ in	2-Door, 4-Drawer, 4 in Casters	—	Tan	Knaack	44	**13R519**
40 ¾ in	25 in	37 ½ in	2-Door, 2-Drawer, 4 in Casters	—	Tan	Knaack	40	**14V868**
43 ⅞ in	26 ⅞ in	38 ½ in	2-Door, 4-Drawer, 4 in Casters	—	Blue	Westward	—	**24Y922**
43 ⅞ in	26 ⅞ in	38 ½ in	2-Door, 4-Drawer, 4 in Casters	—	Brown	Crescent Jobox	676990	**6YG42**
43 ⅞ in	26 ⅞ in	38 ½ in	2-Door, 2-Drawer, 4 in Casters	—	Red	Crescent Jobox	675990	**8UMP7**
46 ¼ in	25 in	37 ½ in	2-Door, 8-Drawer, 6 in Casters	—	Red	Knaack	63	**13R505**
46 ¼ in	25 in	37 ½ in	2-Door, 8-Drawer, 6 in Casters	—	Tan	Knaack	49	**13R508**
46 ¼ in	25 in	37 ½ in	2-Door, 4-Drawer, 6 in Casters	—	Tan	Knaack	45	**13R513**
46 ¼ in	25 in	37 ½ in	2-Door, 0-Drawer, 4 in Casters	—	Tan	Knaack	47	**13R521**
49 ⅞ in	26 ⅞ in	40 ⅝ in	2-Door, 6-Drawer, 6 in Casters	—	Brown	Crescent Jobox	678990	**6YG43**
54 ¼ in	26 in	37 ⅜ in	2-Door, 6-Drawer, 6 in Casters	—	Tan	Knaack	58	**13R504**
54 ¼ in	26 in	37 ⅜ in	2-Door, 8-Drawer, 6 in Casters	—	Tan	Knaack	59	**14V882**
62 in	32 in	34 in	6-Door, 4-Drawer, 8 in Casters	—	Tan	Knaack	62	**13R507**
Jobsite Rolling Clam Shell Cabinets								
60 in	15 in	65 in	6 Shelves	60.9 cu ft	Tan	Knaack	100	**13R511**
62 ½ in	30 in	63 ½ in	6 Shelves	58.0 cu ft	Red	Crescent Jobox	692990	**6YG48**



Drop Front Jobsite Chest No. 4AXX2



Storage Cabinet No. 6YG50 (Tools not included.)



Field Office No. 1MCF8



Mobile Workbench No. 14V882



Clam Shell Cabinet No. 6YG48 (Tools not included.)



Aluminum Full-Size Chest
No. 4NY47



Steel Hinged
No. 4NY55
(Tools Not Included)



Aluminum
Innerside Box
No. 4NY48



Steel Topside Box
No. 4TKF9
(Tools Not Included)

Heavy-Duty Truck Boxes

Crossover Boxes—Full weatherstripping. End-mounted push buttons provide access from either side of truck. Features include heavy-duty gas springs and guards, built-in storage bins on both ends, and removable tool trays. All aluminum models have 3-layer, laminated structural lids. JOBOX models have a clear-coat, powder-coated finish. Steel models have powder-coated finish.

Full-Size Chests—Tapered bottom on front and sides. Recessed hinge allows lid to be fully opened. Leakproof stainless steel paddle handles.

Innerside Boxes—Each features a built-in, full-length storage compartment. Mounting kit includes support legs and hardware.

Topside Boxes—Each door features a 3-pt. locking system and industrial-grade bullet hinges. Galvanized steel aircraft cables provide high-strength door support. Cam locks have stainless steel, rotating T-handles.

Color	Overall Width	Overall Depth	Overall Height	Storage Cap.	Gauge	Body Material	Mounting Style	Locking System	Latch Mechanism	Lid Type	Brand	Item No.
Crossover Boxes												
Double												
Silver	70⅛"	20⅞"	14¼"	9.2 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY53**
Gull Wing												
White	71"	27⅞"	14¼"	9.2 cu. ft.	14	Steel	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY54**
Hinged												
Silver	14"	71"	14"	7.5 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V46**
Silver	19½"	71"	17"	10.5 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V47**
Black	19½"	71"	17"	10.5 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V48**
Single												
Silver	60⅛"	20⅞"	11¼"	6.1 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY52**
White	61"	27¼"	11¼"	6.1 cu. ft.	14	Steel	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY56**
Silver	70⅛"	20⅞"	14¼"	9.2 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY50**
Black	70¼"	20¼"	14⁹⁄₁₆"	9.2 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY58**
White	71"	20¼"	17¼"	11.3 cu. ft.	14	Steel	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY57**
White	71"	20⅞"	14¼"	9.2 cu. ft.	14	Steel	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY55**
Silver	71⅛"	20⅞"	17¼"	11.3 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**5HE87**
Silver	71⅛"	21"	15⅛"	9.1 cu. ft.	0.100"	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**2VUY4**
Silver	71⅛"	21"	19⅞"	13.0 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY51**
Full-Size Chests												
Hinged												
Black	19½"	40"	19"	8.4 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V50**
Silver	19½"	41"	19"	8.4 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V49**
Single												
Silver	61"	20⅝"	18½"	12.1 cu. ft.	0.100"	Diamond Tread Aluminum	Bolt-On	Keyed	Paddle Handle	Adjustable	Crescent Jobox	**2KE64**
Silver	61"	27⅜"	19⅜"	17.0 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Paddle Handle	Adjustable	Crescent Jobox	**4NY47**
Innerside Boxes												
Hinged												
Silver	16"	47"	13"	3.3 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V51**
Single												
Silver	58½"	12¼"	11"	3.2 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY48**
White	58½"	12¼"	11⅛"	3.2 cu. ft.	14	Steel	Bolt-On	Keyed	Drill-Resistant Push Button Locks	Adjustable	Crescent Jobox	**4NY49**
Topside Boxes												
Double												
Silver	72"	15"	17"	10.6 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Rotating T-Handle	Adjustable	Crescent Jobox	**4TKF8**
White	72"	15"	17"	10.6 cu. ft.	14	Steel	Bolt-On	Keyed	Rotating T-Handle	Adjustable	Crescent Jobox	**4TKG1**
Silver	88"	15"	17"	13.0 cu. ft.	16	Diamond Tread Aluminum	Bolt-On	Keyed	Rotating T-Handle	Adjustable	Crescent Jobox	**4TKF7**
White	96"	15"	17"	14.2 cu. ft.	14	Steel	Bolt-On	Keyed	Rotating T-Handle	Adjustable	Crescent Jobox	**4TKF9**
Hinged												
Silver	18½"	36½"	18"	6.7 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V52**
Silver	18½"	48"	18"	8.7 cu. ft.	0.055"	Aluminum	Crimp-Free, Drill-Free Clamped Brackets	Keyed with Drill-Resistant Lock Core	Push Button Locks	Non-Adjustable	Westward	**422V53**

Truck Boxes

- Fully weather stripped
- Powder-coated finish
- Limited lifetime warranty
- All lids are nonadjustable

Cross Boxes—Have 2 independent covers that allow access from either side of truck. Tamper-resistant retracting lock.

Lo-Side Boxes—Low-profile boxes mount over truck bedrails to keep critical tools and parts within easy reach, while keeping truck bed clear for larger items. Cover opens 90° to provide easy access to contents. Tamper-resistant retracting lock.

Hi-Side Boxes—Carry more tools and to free up space in the cargo bed. Gutter design channels rain and snow off the box to keep contents dry. Feature a removable parts bin. Toolless quick-release doors adjust from 90° to 180° with QuickClips (which do require tools).

Chests—Retracting Extreme Protection® lock is tamper-resistant to help protect against break-ins. Chests feature 90° cover opening for easy access, automotive-style rotary latch with smooth 1-touch opening, and a full weather seal.


Aluminum Cross Box No. H1767

▶CHOOSE: Color	Overall Width	Overall Depth	Overall Height	Storage Cap.	Mounting Style	Item No.
Cross Boxes						
Aluminum						
Silver, Black	47"	20¼"	19¼"	10.0 cu. ft.	Bolt-On	**H1772**
Black, Silver	55"	20"	19¼"	12.0 cu. ft.	Bolt-On	**H1771**
Black	62"	20¼"	18½"	8.9 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R607**
Silver, Black	62"	20¼"	19¼"	13.1 cu. ft.	Bolt-On	**H1770**
Black, Silver	62"	27½"	19¼"	18.6 cu. ft.	Bolt-On	**H1769**
Silver, Black	71½"	20¼"	15"	8.8 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**H1768**
Silver, Black	71½"	20¼"	18½"	11.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**H1767**
Silver, Black	71½"	20¼"	24"	15.1 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**H1766**
Black	71½"	20½"	15"	8.8 cu. ft.	Bolt-On	**38TG25**
Black	71½"	20½"	18½"	11.3 cu. ft.	Bolt-On	**38TG24**
Silver	71½"	20¾"	18½"	11.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R560**
Silver, Black	71½"	27½"	18½"	15.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**H1765**
Black	71½"	27½"	18½"	15.3 cu. ft.	Bolt-On	**38TG23**
Silver	71½"	28¼"	18½"	15.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R613**
Steel						
White	62"	20¼"	19¼"	13.1 cu. ft.	Bolt-On	**H1770**
White	47"	20¼"	19¼"	10.0 cu. ft.	Bolt-On	**13R586**
White	55"	20¼"	19¼"	12.0 cu. ft.	Bolt-On	**13R611**
Black	62"	20¼"	19¼"	13.1 cu. ft.	Bolt-On	**13R608**
White	62"	27½"	19¼"	18.6 cu. ft.	Bolt-On	**13R609**
Black	71⅜"	27¼"	17⅞"	15.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R601**
White, Black	71½"	20¼"	18½"	11.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**H1773**
White	71½"	20¾"	18½"	11.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R577**
White	71½"	27½"	18½"	15.3 cu. ft.	Crimp-Free, Drill-Free Clamped Brackets	**13R556**
Lo-Side Boxes						
Aluminum						
Silver, Black	47¼"	16¼"	13¼"	3.4 cu. ft.	Bolt-On and Clamp-On	**H1774**
Matte Black	47½"	16½"	13½"	3.4 cu. ft.	Bolt-On	**38TG29**
White	47½"	16½"	13½"	3.4 cu. ft.	Bolt-On	**38TG34**
Silver	56¼"	16¼"	13¼"	4.1 cu. ft.	Bolt-On and Clamp-On	**13R552**
Black	56¼"	16¼"	13¼"	4.1 cu. ft.	Bolt-On and Clamp-On	**13R573**
Black	56¼"	16¼"	13¼"	4.1 cu. ft.	Bolt-On	**38TG28**
Silver	87¼"	16½"	13¼"	6.4 cu. ft.	Bolt-On and Clamp-On	**13R599**
Steel						
White	46¾"	13½"	13"	3.2 cu. ft.	Bolt-On and Clamp-On	**13R579**
White	46¾"	18"	13"	4.5 cu. ft.	Bolt-On and Clamp-On	**13R587**
White	60¼"	13½"	13"	4.1 cu. ft.	Bolt-On and Clamp-On	**13R576**
White	60¼"	18"	14"	6.5 cu. ft.	Bolt-On and Clamp-On	**13R582**
Hi-Side Boxes						
Aluminum						
Silver	64¼"	13¼"	16"	7.9 cu. ft.	Bolt-On and Clamp-On	**13R618**
Silver	64¼"	16¼"	18"	10.8 cu. ft.	Bolt-On and Clamp-On	**13R612**
Black	64¼"	16¼"	18"	10.8 cu. ft.	Bolt-On and Clamp-On	**13R585**
Silver	72¼"	13¼"	16"	8.9 cu. ft.	Bolt-On and Clamp-On	**13R591**
Silver	90¼"	13¼"	16"	11.1 cu. ft.	Bolt-On and Clamp-On	**13R564**
Silver	90¼"	16¼"	18"	15.2 cu. ft.	Bolt-On and Clamp-On	**13R568**
Black	90½"	16½"	18"	15.2 cu. ft.	Bolt-On	**38TG30**
White	90½"	16½"	18"	15.2 cu. ft.	Bolt-On	**38TG35**
Silver	96¼"	13¼"	16"	11.8 cu. ft.	Bolt-On and Clamp-On	**13R603**
Steel						
White	72¼"	13¼"	16"	8.9 cu. ft.	Bolt-On and Clamp-On	**13R610**
White	90¼"	16¼"	18"	15.2 cu. ft.	Bolt-On and Clamp-On	**13R584**
White	96¼"	16"	24"	21.4 cu. ft.	Bolt-On and Clamp-On	**13R602**
Chests						
Aluminum						
Black	47"	20½"	19½"	10 cu. ft.	Bolt-On	**38TG26**
Black	62"	20½"	19½"	13.1 cu. ft.	Bolt-On	**38TG27**
Steel						
White	37"	20¼"	16¼"	6.0 cu. ft.	Bolt-On	**14V929**


Aluminum Cross Box No. 13R613


Steel Cross Box No. 13R556


Aluminum Lo-Side Box No. 13R573


Steel Lo-Side Box No. 13R582


Aluminum Hi-Side Box No. 13R603

Trailer Tongue Boxes

Rugged, dent-resistant construction with a rust-resistant finish. Lid closes tightly to keep out moisture and dust to protect contents. No. 55CH83 features an offset, gas spring lid lift to ease access from the driver's side. The deep recessed hinge allows the box to fully open when mounted against a rail or trailer. The leakproof stainless steel paddle handle helps keep back spray from entering box. No. 55AG06 mounts to the front of A-frame style trailers. The zinc-plated hasp resists corrosion and fits standard padlocks.


No. 55CH83


No. 55AG06

Body Material	Cover Material	Latch Mechanism	Locking System	Mounting Style	Overall Width	Overall Depth	Overall Height	Storage Cap.	Color	Brand	Mfr. Model	Item No.
Aluminum	Aluminum	Paddle Handle	Keyed with Drill-Resistant Lock Core	Bolt-On	16"	33"	20½"	4.5 cu. ft.	Silver	Crescent Jobox	405000D	**55CH83**
Polyethylene	Polyethylene	Hasp	—	Bolt-On	36"	18"	18"	7.1 cu. ft.	Black	Buyers Products	1701680	**55AG06**



Aluminum 6-Drawer No. 1FEH8



Aluminum 3-Drawer No. 1FEJ1



Steel 1-Drawer No. 1FEH1

Truck/Van Storage Drawers and Bin Dividers

JOBOX PREMIUM STORAGE SOLUTIONS

ALUMINUM

- 75-lb. capacity per drawer
- Aluminum top plate supports 200 lb. per sq.-ft. load
- Drawers can be locked with padlocks (not supplied)
- 0.125-ga. treadplate construction

Full-extension ball bearing drawer glides, fully welded treadplate, and mill finish. 12"W stacking units mount directly on either side of van for rear door access and maximum floor space. 50"L horizontal floor mounts. No. 1FEH6 is for full-size vans and pickups. Nos. 1FEH5 and 1FEH4 can be used in most vehicles.

STEEL

- 650-lb. capacity drawer with keyed lock
- Grip-and-Release handle safety system prevents drawer from slamming shut or rolling open when loaded
- Includes mounting brackets and hardware
- White powder paint finish

Reinforced 14-ga. cabinets. 12-ga. steel drawers glide on steel rollers. Antiskid strips. Removable 250-lb. heavy-duty conveyor roller bearings. Steel handles are flush-mounted. Weather stripping around drawer fronts.

W	D	H	Color	No. of Drawers	No. of Dividers	Rollers	Mfr. Model	Item No.
Aluminum								
48 in	50 in	6 in	Silver	4	5	0	1404980	**1FEH6**
36 in	50 in	6 in	Silver	3	5	0	1403980	**1FEH5**
36 in	26 in	12 in	Silver	6	5	0	1406980	**1FEH8**
36 in	26 in	6 in	Silver	3	5	0	1405980	**1FEH7**
24 in	50 in	6 in	Silver	2	5	0	1402980	**1FEH4**
12 in	50 in	24 in	Silver	4	5	0	1409980	**1FEJ2**
12 in	50 in	18 in	Silver	3	5	0	1408980	**1FEJ1**
12 in	50 in	12 in	Silver	2	5	0	1407980	**1FEH9**
12 in	50 in	6 in	Silver	1	5	0	1401980	**1FEH3**
Steel								
48 in	48 in	13 in	White	1	24	4	668980	**1FEH2**
48 in	48 in	9 in	White	1	24	4	664980	**1FEG7**
36 in	48 in	13 in	White	1	19	3	667980	**1FEH1**
36 in	48 in	9 in	White	1	19	3	663980	**1FEG6**
24 in	48 in	13 in	White	1	13	2	666980	**1FEG9**
24 in	48 in	9 in	White	1	13	2	662980	**1FEG5**
12 in	48 in	13 in	White	1	7	1	665980	**1FEG8**
12 in	48 in	9 in	White	1	7	0	661980	**1FEG4**



No. H1775



No. 13R595

weather guard

Pack Rat® Truck/Van Storage Drawers

- 14-ga. steel
- Total load rating: 750 lb.
- Fully weather stripped powder-coated finish

Low-profile units can be used separately or in combination with one another. Mount inside the rear of the vehicle to provide secure, concealed storage for large or heavy items, while keeping truck bed area relatively free to carry more cargo. Roll-out drawer provides easy access to and organization of contents. Antiskid strips provide traction for workboots. Easy 1-handed latch opening. Limited lifetime warranty.

W	D	H	▶CHOOSE: Color	No. of Dividers	Rollers	Mfr. Model	Item No.
20"	48"	8⅞"	White	12	1	306-3	**13R561**
29⅞"	48"	8⅞"	White	18	2	307-3	**13R558**
29⅞"	48"	12⅜"	White	6	2	334-3	**13R595**
30"	24"	8⅞"	White	12	2	312-3	**13R572**
30"	24"	12½"	White	12	2	301-3	**13R598**
30"	48"	12½"	White	18	2	337-3	**13R597**

W	D	H	▶CHOOSE: Color	No. of Dividers	Rollers	Mfr. Model	Item No.
39⅝"	48"	12⅜"	White, Black	24	3	338	**H1775**
39¾"	24"	13"	White	12	3	303-3	**13R589**
39¾"	48"	9"	White, Black	24	3	308	**H1776**
48"	10¼"	8⅞"	White	6	1	305-3	**13R569**
48"	10¼"	12⅜"	White	6	1	335-3	**13R578**
48"	20"	12⅜"	White	12	1	336-3	**13R580**



No. 26X196



No. 26X198



No. 26X201

Truck and Van Boxes

Swivel STORAGE SOLUTIONS

- All-steel construction with powder-paint finish
- Vibration-resistant construction

Drawers swing open easily on a single, greaseable hinge to provide full access to drawer contents and close securely every time. Include antiskid drawer mats. 12-ga frame and 14-ga. drawers, except No. 26X198 has 14-ga. frame. Nos. 26X196 and 26X198 are weather-sealed to keep out dirt and dust. No. 26X198 also features a secure locking system and main door opens to create a usable work table.

Description	Overall Width	Overall Depth	Overall Height	Item No.
Truck Boxes				
Underbody Truck Box, (3) Drawers, Weathertight Lid	36 ⅜ in	18 ¾ in	18 ¼ in	**26X196**
Five Drawer Road Box	30 ⅛ in	14 ½ in	21 ⅝ in	**26X198**
Van Box				
8-Drawer Service Body/Van Tool Box	29 ¼ in	18 in	34 ⅜ in	**26X201**

Color	Overall W	Overall D	Overall H	Latch Mechanism	Brand	Mfr. Model	Item No.
Aluminum							
Silver	18"	18"	18"	T-Handle Compression	Buyers Products	1705101	**6RHP6**
	18"	18"	18"		Buyers Products	1705201	**6RHR7**
	24"	18"	18"	Rotating T-Handle	Crescent Jobox	757980	**1RD65**
	24"	18"	18"	T-Handle Compression	Buyers Products	1705200	**6RHR8**
	30"	18"	18"		Buyers Products	1705103	**6RHP7**
	36"	18"	18"	Rotating T-Handle	Crescent Jobox	759980	**1RD66**
	36"	24"	24"	T-Handle Compression	Buyers Products	1705135	**6RHR1**
	48"	18"	18"	Rotating T-Handle	Crescent Jobox	761980	**1RD67**
Steel							
Black	24"	18"	18"	Rotating T-Handle	Crescent Jobox	733982	**1RD58**
	24"	18"	18"		Crescent Jobox	1-004002	**2VUY6**
	24"	24"	24"	T-Handle	Buyers Products	1704300	**6RHL7**
	30"	18"	18"	Rotating T-Handle	Crescent Jobox	1-005002	**2VUY7**
	30"	18"	18"	Paddle Handle	Buyers Products	1702103	**6RHK9**
	30"	24"	24"	T-Handle	Buyers Products	1704303	**6RHL8**
	36"	18"	18"	Rotating T-Handle	Crescent Jobox	735982	**1RD59**
	36"	18"	18"		Crescent Jobox	1-006002	**2VUY8**
	36"	18"	18"	Paddle Handle	Buyers Products	1702105	**6RHL0**
	36"	24"	24"	Rotating T-Handle	Crescent Jobox	750982	**1RD63**
	48"	18"	18"		Crescent Jobox	738982	**1RD60**
	48"	18"	18"		Crescent Jobox	1-007002	**2VUY9**
	48"	18"	18"	Paddle Handle	Buyers Products	1702110	**6RHL1**
	48"	24"	24"	Rotating T-Handle	Crescent Jobox	752982	**1RD64**
	60"	18"	18"		Crescent Jobox	739982	**1RD61**
White	24"	18"	18"	Paddle Handle	Buyers Products	1702200	**6RHN1**
	24"	18"	18"	T-Handle	Buyers Products	1702400	**6RHT5**
	30"	18"	18"	Paddle Handle	Buyers Products	1702203	**6RHN2**
	36"	18"	18"		Buyers Products	1702205	**6RHN3**
	36"	18"	18"	T-Handle	Buyers Products	1702405	**6RHT7**
	48"	18"	18"	Paddle Handle	Buyers Products	1702210	**6RHN4**
Steel Body, Aluminum Cover							
Black	30⅛"	18⅛"	18¼"	D-Handle, 3-Point	Weather Guard	530-5-02	**13R616**
	36⅝"	18¼"	18⅛"		Weather Guard	536-5-02	**13R588**
	48⅛"	18¼"	18⅛"		Weather Guard	548-5-02	**13R617**
Steel Body, Diamond Tread Aluminum Door							
Black	24"	18"	18"	T-Handle Compression	Buyers Products	1702500	**6RHL2**
	36"	18"	18"		Buyers Products	1702505	**6RHL3**
Underbed Mounting Brackets (Pair)							
			18 x 18"		Crescent Jobox	228000	**4EA12**
			18 x 24"		Crescent Jobox	229000	**4EA13**



Aluminum Underbed Box No. 1RD65

Buyers JOBOX weather guard

Underbed Truck Boxes

Feature a 1-pc. lock housing with reinforced cam lock; dish is sealed to keep out moisture. Stainless steel rotating T-handle locks top door and both sides, while the 3-point locking system resists forced entry with pry bars.

Aluminum Underbed Boxes—Door is reinforced with wide flanges on 3 sides and locking rod covers. Heavy-duty continuous hinge (⅜") has ¼" aluminum pin and 1" knuckles.

Steel Underbed Boxes—12-ga. cold-rolled steel door is reinforced with wide flanges on 3 sides and locking rod covers; lock guard protects locking system. 14-ga. steel bodies are MIG welded. JOBOX® features 3"L x ⅞"-dia. industrial-grade hinges. ½"-dia. stainless steel hinge pins.

Portable Toolboxes

Montezuma

Open waterfall design provides easy access and inventory assessment. Built-in locking latch for security. Include compartment liners.

Overall Width	Overall Depth	Overall Height	Storage Cap.	Load Rating	Color	Item No.
Aluminum						
26"	17⅜"	18⅛"	5667 cu. in.	250 lb.	Silver	**41U112**
30"	15"	18⅛"	5260 cu. in.	250 lb.	Silver	**6XFV8**
Steel						
22½"	13"	14⅛"	2890 cu. in.	200 lb.	Black	**8DUX5**
26"	17⅜"	18⅛"	5667 cu. in.	250 lb.	Black	**41U110**
30"	15"	18⅛"	5260 cu. in.	250 lb.	Black	**6XFV5**
30"	19"	20⅛"	8581 cu. in.	300 lb.	Black	**8DVD9**
36"	17⅜"	21½"	13,120 cu. in.	300 lb.	Black	**6XFW3**



No. 6XFV8



No. 6XFW3

weather guard JOBOX DELTA CHAMPION

Liquid Transfer Tanks

Transport or store combustible liquids. Tanks are not intended for use with flammable liquids such as gasoline. L-shaped tanks are designed for use with crossover-style truck boxes. No. 1FEG2 combo includes removable storage chest for tools and equipment. All Weather Guard® tanks are for use with diesel fuel only.



No.1FEG2



No. 1RD42

Overall Width	Overall Depth	Overall Height	Cap.	Color	Brand	Mfr. Model	Item No.
L-Shape							
14 Gauge Steel							
24"	30"	26"	40 gal.	White	Weather Guard	351-3-01	**53KJ58**
24"	30"	26"	40 gal.	Black	Weather Guard	351-5-01	**53KJ59**
Aluminum							
57½"	31"	25"	99 gal.	Silver	Crescent Jobox	437000	**1FEG3**
Aluminum Combo							
48¼"	31"	19"	72 gal.	Silver	Delta Champion	433000	**1FEG2**
Steel							
60¼"	33"	25"	98 gal.	White	Crescent Jobox	498000	**1FEG1**
54"	31"	25"	86 gal.	White	Crescent Jobox	487000	**1RD44**
54"	31"	25"	103 gal.	White	Crescent Jobox	480000	**1RD40**
52"	30"	26"	90 gal.	White	Weather Guard	354-3-01	**13R557**
52"	30"	26"	90 gal.	Black	Weather Guard	354-5-01	**38TG39**
49"	37½"	27"	110 gal.	White	Weather Guard	360-3-01	**13R575**
49",56"	37½"	27"	110 gal.	Black	Weather Guard	360-5-01	**38TG40**
43½"	30"	26"	75 gal.	White	Weather Guard	352-3-01	**13R596**
43½"	30"	26"	75 gal.	Black	Weather Guard	359-5-01	**53KJ63**
22½"	24"	23"	45 gal.	White	Weather Guard	357-3-01	**53KJ60**
22½"	24"	23"	45 gal.	Black	Weather Guard	357-5-01	**53KJ61**
12½"	55¼"	27"	50 gal.	White	Weather Guard	359-3-01	**53KJ62**
Steel							
23¼"	23¼"	24"	50 gal.	White	Crescent Jobox	485000	**1RD42**
43½"	30"	26"	75 gal.	Black	Weather Guard	352-5-01	**38TG37**
32¼"	30"	22"	50 gal.	Black	Weather Guard	350-5-01	**38TG36**
32¼"	30"	22"	50 gal.	White	Weather Guard	350-3-01	**14V923**
Rectangle							
Steel							
59⅝"	9"	19"	37 gal.	White	Crescent Jobox	486000	**1RD43**
45¼"	23¼"	24"	96 gal.	White	Crescent Jobox	484000	**1RD41**
45¼"	24"	23"	100 gal.	White	Weather Guard	358-3-01	**13R559**
45¼"	24"	23"	100 gal.	Black	Weather Guard	358-5-01	**38TG38**
Square							
14 Gauge Steel							

Tool Backpacks and Rolling Tool Totes

Note: Tools and parts not included.



Description	No. of Pockets	Overall Width	Overall Depth	Overall Height	Primary Tool Bag Color	Brand	Item No.
Tool Backpacks							
1680D Ballistic Polyester Tool Backpack	22	14"	9"	18"	Red	Milwaukee	**419J52**
1680D Ballistic Polyester Tool Backpack	25	14"	7"	18¼"	Black	Klein Tools	**49AW90**
1680D Ballistic Polyester Tool Backpack	39	14½"	7¼"	20"	Camouflage	Klein Tools	**49AW93**
1680D Ballistic Polyester Tool Backpack	39	7"	14⅜"	20"	Black	Klein Tools	**53YE64**
1680D Ballistic Polyester Tool Backpack	48	15"	11"	20"	Red	Milwaukee	**416P44**
1680 Denier Ballistic Polyester Tool Backpack	35	15 13/32"	9"	24¼"	Black	Milwaukee	**53TX73**
Nylon Tool Backpack	44	14"	11"	16"	Black	CLC	**5ZPJ2**
Polyester Tool Backpack	19	19½"	7"	18"	Black	Westward	**32PJ48**
Polyester Tool Backpack	53	13"	8"	16"	Black	CLC	**402M70**
Polyester Tool Backpack	75	13"	9"	17½"	Black	CLC	**402M69**
Polyester Tool Backpack w/Rubber Bottom	22	17"	6¾"	19"	Black	Westward	**32PJ49**
Tradesman Pro™ 1680D Ballistic Polyester Tool Backpack	39	14½"	7¼"	20"	Black	Klein Tools	**35HU81**
Rolling Tool Totes							
Polyester Rolling Tote	19	22"	10"	17½"	Black	Westward	**32PJ39**
Polyester Rolling Tote	53	17"	11"	17"	Red	Milwaukee	**53TX78**
Tradesman Pro™ 600 Denier Tote w/6" Wheels and Telescoping Handle	24	19"	12½"	14"	Black	Klein Tools	**23NN65**

Wide Mouth Tool Bags and Open Tool Totes

Note: Tools and parts not included.





Description	No. of Pockets	Overall Width	Overall Depth	Overall Height	Primary Tool Bag Color	Brand	Item No.
1680D Ballistic Fabric General Purpose							
Tool Tote	28	10"	11"	13"	Red	Milwaukee	**416P45**
	31	15"	11"	17"	Red	Milwaukee	**416P46**
	32	20"	11"	17"	Red	Milwaukee	**416P47**
Ballistic Nylon Zippered Bags							
Tool Bag	1	12½"	1"	7"	Camouflage	Klein Tools	**49DF45**
Canvas w/Leather General Purpose							
Tool Bag	0	14"	6"	16"	Tan	Westward	**53JW33**
	0	20"	9"	11"	Tan	Westward	**53JW32**
Canvas Wide-Mouth Bags							
High Vinyl Bottom, Leather Handles	1	24"	6"	15"	Brown	Klein Tools	**2DFN7**
Vinyl Bottom, Leather Handles	1	12"	6"	10"	White	Klein Tools	**2DFN4**
	1	16"	6"	14"	White	Klein Tools	**5LL47**
	1	18"	6"	14"	White	Klein Tools	**8EDN3**
	1	20"	6"	15"	White	Klein Tools	**2DFN5**
	1	22"	6"	15"	White	Klein Tools	**36K971**
	1	24"	6"	15"	White	Klein Tools	**2DGT3**
Wide-Mouth Tool Bag w/Leather Bottom	15	20"	6"	15"	Black	Klein Tools	**2DFL6**
Canvas Wide-Mouth Bags w/Shoulder Strap							
Vinyl Bottom, Leather Handles	17	24"	6"	15"	White	Klein Tools	**34E626**
Cotton Canvas General Purpose							
Tool Bag	1	12½"	¼"	8"	Red	Milwaukee	**53TX74**
	3	12½"	¼"	8"	Red	Milwaukee	**53TX75**
Leather Wide-Mouth Bags w/Shoulder Strap							
Wide-Mouth Tool Bag	1	18"	7"	8"	Brown	Klein Tools	**36L250**
Nylon Wide-Mouth Bags							
Polypropylene Bottom	10	15"	8"	14½"	Black	Klein Tools	**2DFU4**
Polyester Duffel Bags							
All Purpose Tool Bag	3	24"	12"	12"	Black	CLC	**1LWK5**
Soft-Sided Wide-Mouth Tool Bag	17	18"	7"	9"	Black	CLC	**5LD75**
Tool Bag With Carabiner Clip	52	—	—	—	—	CLC	**5LU62**
Polyester General Purpose							
Tool Bag	1	4½"	2¼"	9¼"	Black	Klein Tools	**49AW86**
	2	6"	2¼"	10¼"	Black	Klein Tools	**49AW87**
	2	7"	2½"	10¼"	Black	Klein Tools	**49AW88**
	3	13"	8¼"	8"	Black	Westward	**53JW42**
	15	15"	8¾"	12"	Black	Westward	**53JW36**
	16	16½"	7¾"	12½"	Black	Westward	**53JW37**
	17	8½"	6½"	12"	Black	Westward	**53JW35**
	22	17½"	7"	15¼"	Black	Klein Tools	**49AW89**
	42	17½"	10"	16"	Black	Klein Tools	**53YE65**
Tool Tote	5	12 51/64"	12"	14½"	Black	Westward	**53JW34**
	22	11"	10"	19"	Black	CLC	**402M68**
Zipper Bag Set	1	12½", 10"	1"	7", 5½"	Black	Klein Tools	**53YE66**
Polyester Open Totes w/Handles & Shoulder Strap							
Electrician & Maintenance Tote Bag w/Tray	43	23"	12"	15"	Black	CLC	**3HY98**
LED Tool Carrier	22	—	—	—	—	CLC	**20G108**
Soft-Sided Tool Carrier	21	14"	11"	11"	Black	CLC	**1LWK3**
	27	20"	11"	11"	Black	CLC	**1LWK4**
Tool Tote™, Water-Resistant	17	—	—	—	—	Klein Tools	**2DGL6**
Tool Tote™, Water-Resistant w/Drain Holes	12	15½"	7½"	10"	Black	Klein Tools	**1YBR5**
Tote w/Plastic Tray	12	8½"	8½"	16"	Black	Westward	**32PJ32**
Tote w/Rigid Frame	23	22¾"	8"	10"	Black	Westward	**32PJ35**
Tote w/Rotating Handle	11	18¾"	8½"	10¼"	Black	Westward	**32PJ34**
	18	12½"	8½"	12½"	Black	Westward	**32PJ33**
Tradesman Pro™ Electrician's Tote	14	8"	5"	10"	Black	Klein Tools	**35HU80**
	20	8¾"	8¾"	17"	Black	Klein Tools	**35HU76**
	40	10¼"	10"	12¼"	Black	Klein Tools	**35HU77**
Polyester Wide-Mouth Bags w/Shoulder Strap							
BigMouth®	31	18"	11"	12"	Black	CLC	**5LD83**
LED Tool Bag, Closed Top	29	—	—	—	—	CLC	**20G107**
Tool Carrier	33	13"	7"	13"	Black	CLC	**1LWN5**
Tradesman Pro™ Electrician's Bag w/LED Light	31	15¼"	8"	14"	Black	Klein Tools	**35HU82**
Tray Tote™	16	12"	8"	9"	Black	CLC	**5LU64**
	23	15"	9"	12"	Black	CLC	**4ZB31**
	23	16"	8"	11"	Black	CLC	**5LU63**
	37	—	—	—	—	CLC	**5LU65**
Wide-Mouth Tool Bag	11	22"	12½"	14"	Black	Westward	**32PJ40**
	21	14"	7½"	9¼"	Black	Westward	**32PJ36**
	21	16"	8¼"	11½"	Black	Westward	**32PJ37**
	22	18"	12½"	13½"	Black	Westward	**32PJ38**
Specialty Tool Bags and Totes							
17-Pocket Electrician	17	8"	8"	15"	Tan	CLC	**5LF05**
Worklight							
LED Lamp, Requires (3) AAA Batteries	—	—	—	—	—	Klein Tools	**35HU87**


No. 38UZ40


No. 3PY66


No. 5MZP5


No. 23NN68


No. 483F56


No. 13T122


No. 3XUU4


No. 4ZB39


No. 13T126


No. 34E628


No. 5MZL9

Tool Belts, Pouches, and Holders

Note: Tools/parts are not included.

Description	No. of Pockets	Material	Color	Brand	Item No.
Bolt Bags					
Fits Belts Up To Wide					
Bull-Pin and Bolt Bag	1	Canvas	Natural	Klein Tools	**2DGU7**
Nut and Bolt Bag	1	Canvas	Off-White	CLC	**4ZB42**
Tool Belts					
Fits Waist Size 30" to 53"					
Contractor	24	1680D Ballistic Nylon	Red/Black	Milwaukee	**38UZ41**
Electrician's	29	1680D Ballistic Nylon	Red/Black	Milwaukee	**38UZ40**
Fits Waist Size 31" to 34"					
Tradesmen Pro™ Electrician's	26	1680D Ballistic Weave	Black	Klein Tools	**23NN68**
Fits Waist Size 35" to 39"					
Tradesmen Pro™ Electrician's	26	1680D Ballistic Weave	Black	Klein Tools	**23NN69**
Fits Waist Size 40" to 44"					
Tradesmen Pro™ Electrician's	26	1680D Ballistic Weave	Black	Klein Tools	**23NN70**
Fits Waist Size Up to 46"					
Carpenter's	6	Polyester	Tan/Black	Westward	**13T129**
Carpenter's	6	Heavy Duty Polyester	Khaki/Black	CLC	**4ZB41**
Carpenter's	18	Ballistic Polyester	Black	CLC	**3PY66**
Electrical Combo w/3" Belt	29	Polyester	Khaki/Black	CLC	**1LWK6**
Electrician's	20	Ballistic Polyester	Black	CLC	**5LF17**
Heavy-Duty	12	Heavy Duty Suede Leather	Tan	CLC	**4ZB44**
Fits Waist Size Up to 49"					
Electrician's	4	Polyester	Black/Blue	Westward	**5MZL0**
Fits Waist Size Up to 50"					
Carpenters Tool Apron w/Belt	12	Leather	Gold	Westward	**5MZL2**
Fits Waist Size Up to 54"					
Ballistic Poly Tool Rig w/Belt	18	1680 Polyester, Polypropylene Webbing	Black/Blue	Westward	**5MZP5**
Carpenters Tool Rig w/Belt	13	Polyester	Black/Blue	Westward	**5MZL1**
Electricians Tool Rig w/Belt	17	Polyester	Black/Blue	Westward	**5MZN4**
Tool Holders					
Adjustable Rivet Snap Belt Fit					
Sheath	1	Nylon	Black	Leatherman	**483F58**
Sheath	1	Nylon	Black	Leatherman	**483F57**
Sheath	1	Nylon	Black	Leatherman	**483F56**
Sheath, 4 Pockets, For Use With 4½" Tools	4	Nylon	Black	Leatherman	**483F60**
Sheath, 4 Pockets, For Use With 4" Tools	4	Nylon	Black	Leatherman	**483F59**
Tool Holder, 7 Pockets	7	Polyester	Red	Milwaukee	**444N81**
Tool Holder, 9 Pockets	9	Polyester	Red	Milwaukee	**444N82**
Fits Belts Up To 2½" Wide					
Electrical Meter/Tester Holder	2	Polyester	Black	CLC	**5LF01**
Multi-Purpose Tool Holder	4	Polyester	Black	CLC	**5LD74**
Fits Belts Up To 2¾" Wide					
Closed-Bottom Plier Holder	1	Top Grain Leather	Tan	CLC	**4ZB56**
Cordless Drill Holder	7	Ballistic Poly	Black/Yellow	DeWalt	**3XUT6**
Cordless Drill Holster	—	Polyester	Black	CLC	**5LF02**
Electricians Tool Holder	5	Ballistic Poly	Black/Yellow	DeWalt	**3XUT7**
Maintenance Tool Holder	5	Ballistic Poly	Black/Yellow	DeWalt	**3XUT8**
Measuring Tape Holder	1	Top Grain Leather	Tan	CLC	**4ZB59**
Narrow Plier Holder	1	Top Grain Leather	Tan	CLC	**4ZB55**
Plier Holder	1	Top Grain Leather	Natural	Westward	**13T131**
Plier Holder	1	Top Grain Leather	Natural	Westward	**13T121**
Plier Holder	1	Top Grain Leather	Tan	CLC	**3XUV4**
Tool Holder	3	Polyester	Black	Westward	**13T124**
Utility Knife Sheath	1	Top Grain Leather	Tan	CLC	**4ZB58**
Utility Knife Sheath	2	Top Grain Leather	Natural	Westward	**13T122**
Tool Pouches					
Adjustable Rivet Snap Belt Fit					
Electrician's, 15 Pockets	15	1680 Denier Ballistic Polyester	Red/Black	Milwaukee	**53TX79**
Fits Belts Up To 2½" Wide					
Electrician's	7	Leather	Black	Klein Tools	**5LL50**
Warehouse Tool Pouch	4	Polyester	Black/Blue	Westward	**5MZN0**
Fits Belts Up To 2¾" Wide					
Carpenter's	8	Reversed Top Grain Leather	Tan	CLC	**4ZB37**
Carpenter's	8	Suede Leather	Tan	CLC	**5LF27**
Carpenter's	10	Suede Leather	Tan	CLC	**5LF28**
Electrical/Maintenance Pouch	9	Polyester	Black	CLC	**2VEK2**
Electrician's	8	Top Grain Leather	Tan	CLC	**13R626**
Electrician's	8	Top Grain Leather	Tan	CLC	**5LF04**
Electrician's	12	Ballistic Polyester	Black	CLC	**5LF11**
Electrician's	14	Ballistic Poly	Black/Yellow	DeWalt	**3XUU4**
Electrician's	20	Ballistic Polyester	Black	CLC	**4ZB40**
Electrician's	21	Polyester	Black	CLC	**4ZB39**
Nail and Tool Pouch	10	Suede Leather	Beige	Westward	**13T127**
Poly Tool Pouch	1	Polyester	Black/Blue	Westward	**5MZL8**
Pouch w/Carry Handle	11	Polyester	Black	Westward	**13T128**
Tool Pouch	5	Top Grain Leather	Tan	CLC	**4ZB54**
Tool Pouch	8	Top Grain Oil-Tanned Leather	Natural	Westward	**13T126**
Ziptop	7	Polyester	Black	CLC	**5DYN2**
Ziptop	11	Polyester	Black	CLC	**5DYN3**
Fits Belts Up To 3½" Wide					
Tool Pouch	20	Polyester	Black	Westward	**13T125**
Fits Belts Up To 3¼" Wide					
Carpenter's Tool Pouch	5	Polyester	Black/Blue	Westward	**5MZL7**
Electricians Tool Pouch	6	Polyester	Black/Blue	Westward	**5MZL6**
Tool Tote	13	600D Polyester	Black/Blue	Westward	**5MZP0**
Fits Belts Up To 2" Wide					
Box-Shaped Pouch	1	Top Grain Leather	Tan	CLC	**5LD98**
Carry-All Pouch	9	Polyester	Black	CLC	**2VEK4**
Drill/Drill Bit Pouch	8	Polyester	Black/Orange	Klein Tools	**35HU85**
Iron Worker's	4	Leather	Black	Klein Tools	**2DFR2**
Snap-Loop Tool Pouch	6	Leather	Black	Klein Tools	**34E628**
Tool Pouch	4	Cordura® Ballistic Nylon	Black	Klein Tools	**34E629**
Tool Pouch	6	Leather	Black	Klein Tools	**2DFR5**
Fits Belts Up To 3" Wide					
Extra Capacity Pouch	8	Leather	Black	Klein Tools	**2DFT6**
Tool Tote	1	#8 Canvas	White	Klein Tools	**2DFT3**
Universal Organizer	9	600 Denier Polyester	Black and Blue	Westward	**5MZL9**


No. 2DFT4


No. 32PJ50


No. 5MZJ0


No. 2DGH7


No. 32PJ52


No. 32PJ46


No. 32PJ43


No. 1YBP8


No. 2DFT1


No. 35HU84

Tool Organizers and Bags

Note: Tools and parts not included.

Description	Dia. (in.)	W	D	H	Color	Brand	Item No.
Canvas Aerial Accessories							
Electrode Bag	2½	—	—	12 to 15½"	Natural	Klein Tools	**36L220**
Oval Bucket	—	14"	7"	10"	Natural	Klein Tools	**36K968**
Oval Bucket w/ 2 Hooks	—	14"	7"	10"	Natural	Klein Tools	**2DFT4**
Tapered Bottom Bag	6½	—	—	8"	Green	Klein Tools	**36L228**
Bucket Tool Organizers							
Polyester, 35 Exterior Pockets, 23"L	12	—	—	—	Black/Orange	Klein Tools	**45HL37**
Polyester, 30 Exterior Pockets, 21½"L	11½	—	—	—	Black/Gray	Westward	**32PJ50**
Polyester, 55 Exterior Pockets, 21½"L	12 1⁄16	—	—	—	Black	Westward	**32PJ51**
Bucket Trays							
4-Compartment w/Handle	10½	—	—	—	Black	Westward	**38XX90**
4 Compartment Round w/Handle	11½	—	—	—	White	CLC	**4ZB51**
Parts Trays							
Small 12-Compartment 5½" x 7"	—	—	—	—	Clear	Westward	**5MZJ1**
Large 28-Compartment 8¾" x 14"	—	—	—	—	Clear	Westward	**5MZJ0**
Canvas Drawstring Bags							
Bolt Bag	—	9"	5"	10"	Natural	Klein Tools	**34E643**
Drawstring Bucket Bag	—	11"	6"	6"	Olive	Klein Tools	**2DGH7**
Polyester Drawstring Bags							
Tool Bucket Bag	9	—	—	—	Black/Gray	Westward	**32PJ52**
1680D Ballistic Polyester Hacksaw Bag							
Tradesmen Pro™ Hacksaw Bag	—	17"	1½"	8⅜"	Black	Klein Tools	**23NN67**
Polyester Roll-Up Storage							
Wrench Bag	—	29½"	⅛"	26¼"	Black/Gray with Red Trim	Westward	**32PJ46**
Roll-Up Bag	—	22½"	½"	14"	Black/Gray with Red Trim	Westward	**32PJ47**
Canvas Zippered Bags							
Zipper Bag	—	12⅛"	¼"	7⅜"	White	Westward	**32PJ41**
Tool Bag	—	12½"	1"	7"	Natural	Klein Tools	**5LL48**
Tool Bag	—	10"	3½"	8"	Natural	Klein Tools	**36L271**
Tool Bag	—	10"	3½"	8"	Blue	Klein Tools	**36L274**
Tool Bag	—	10"	3½"	8"	Red	Klein Tools	**36L279**
Contractor's Zipper Portfolio Bag	—	17"	45⁄64"	12"	Natural	Klein Tools	**9RME6**
Canvas Zippered Bag Sets							
Zipper Bags, Pk. of 3	—	10"	3½"	8"	Blue/Red/Yellow	Klein Tools	**36L229**
Zipper Bags, Pk. of 3	—	12"	¾"	7"	Black/Red/White	Westward	**32PJ43**
Zipper Bags, Pk. of 4	—	12½"	1"	7"	Blue/Green/Orange/Yellow	Klein Tools	**1YBP8**
Zipper Bags, Pk. of 4. 12 ½" x 1" x 7"	—	—	—	—	Brown/Black/Gray/Red	Klein Tools	**34E630**
Cordura® Nylon Zippered Bags							
Tool Bag	—	12½"	1"	7"	Black	Klein Tools	**2DFT1**
Tool Bag	—	12½"	1"	7"	Camouflage	Klein Tools	**2DGT8**
Padded Cordura® Nylon Zippered Bags							
Tool Bag	—	12½"	1"	7"	Black	Klein Tools	**36L258**
Cordura® Nylon Zippered Bags							
Contractor's Zipper Portfolio Bag	—	17"	½"	12"	Black	Klein Tools	**9LLA7**
600D Polyester Zippered Bags							
Zipper Bag	—	12"	¼"	7"	Black	Westward	**32PJ42**
600D Polyester Zippered Bag Sets							
Bag Set, Pkg. of 3	—	9"	¾"	6"	Black	Westward	**32PJ44**
Leather Zippered Bags							
Cowhide Leather Bag	—	12½"	1"	7"	Brown	Klein Tools	**2DFT2**
Suede Leather Bag	—	11"	½"	6½"	Yellow	Westward	**13T120**
Zippered Tool Cases							
Polyester, Medium	—	8¾"	2¼"	6½"	Black/Orange	Klein Tools	**35HU86**
Polyester, Large	—	10¼"	2¼"	5½"	Black/Orange	Klein Tools	**35HU84**


No. 5MZR8


No. 4ZB60

Cell Phone Holders

Note: Tools, parts, and cell phones not included.

Description	Fits Belts Up To	Material	Color	Brand	Item No.
Universal Mini Holder	2"	600 Denier Polyester	Black	Westward	**5MZR7**
Universal Medium Holder	2"	600 Denier Polyester	Black and Blue	Westward	**5MZR8**
Tool and Phone Holder, 4-Pocket	2"	Polyester	Black	CLC	**2VEK1**
Small Holder	2"	Polyester	Mossy Oak®	CLC	**2VEN1**
Small Holder	2"	Polyester	Black	Westward	**13T123**
Tool/Phone Holder, 3-Pocket	2¼"	Polyester	Black	Westward	**13T132**
Small Holder	2¼"	Polyester	Black	CLC	**4ZB60**
Large Holder	2¼"	Polyester	Black	CLC	**4ZB61**
Tool/Phone Holder, 4-Pocket	2½"	Polyester	Black	CLC	**3HY97**
Large, Heavy-Duty Holder	2¾"	Ballistic Poly	Black/Yellow	DeWalt	**3XUT5**

KLEIN TOOLS | PROTO | CLC Custom LeatherCraft | ★ WESTWARD

Work Belts, Aprons, and Suspenders

Description	Waist Size	Material	Color	Brand	Item No.
Work Belts					
1"W Lightweight Tool Belt	33" to 45"	Leather	Black	Klein Tools	2DFU5
1¾"W Heavy-Duty	36" to 46"	Top Grain Saddle Leather	Tan	Proto	4R321
1¾"W Heavy-Duty	46 to 52"	Top Grain Saddle Leather	Tan	Proto	4R322
1 ¾"W Embossed	29" to 46"	Top Grain Saddle Leather	Tan	CLC	5LF25
2"W Small	32" to 40"	Leather	Tan	Klein Tools	5LL54
2"W Medium	36" to 44"	Leather	Tan	Klein Tools	5LL52
2"W Large	40" to 48"	Leather	Tan	Klein Tools	5LL53
2"W Xtra-Large	44 to 52"	Leather	Tan	Klein Tools	5LL55
2"W Web	29" to 46"	Polypropylene	Black	Westward	13T130
2"W Web	29" to 46"	Polyester Web	Black	CLC	4ZB45
3"W Padded	29" to 46"	Polyester	Black	CLC	5LF18
5"W Padded	29" to 46"	Polyester	Black	CLC	3PY68
Aprons					
Electrician Apron	32 to 46" M/L	Canvas	Black	Klein Tools	34E627
Work Apron, 3-Pocket	One Size Fits Most	Cotton	Blue	CLC	5LF23
Bib Apron, 4-Pocket	Up to 46"	Canvas	Off-White	CLC	4ZB63
Waist Apron, 5-Pocket	Up to 52"	Canvas	Off White	CLC	3XUV3
Waist Apron, 5-Pocket	Fits up to 52"	Cotton	Natural Off White	Westward	5MZL4
Suspenders					
Heavy-Duty Suspenders	One Size Fits Most	Polyester	Yellow Lime	CLC	5DYK6
Padded Suspenders	One Size Fits Most	Elastic, Webbing	Black	CLC	5LF03
Gel Comfort Suspenders	One Size Fits Most	Polypropylene Mesh and Webbing, Gelfoam, Nylon, Metal Snap Hooks	Black/Blue	Westward	5MZP3
Shock-Absorbing Suspenders	One Size Fits Most	Polypropylene Mesh and Webbing, Gelfoam, Nylon, Metal Snap Hooks	Black/Blue	Westward	5MZP4
Shoulder Strap					
Tool Bag Shoulder Strap, Padded, 53"L	—	Polyester / Webbing / Metal Snaps	Black	Westward	5MZL5


No. 5LL52


No. 4ZB45


No. 5LF23


No. 5MZP3

Tool Buckets and Bags

Note: Tools not included.

Milwaukee | KLEIN TOOLS | ★ WESTWARD | ergodyne

Description	No. of Pockets (Inside)	Dia. (in.)	H (in.)	Brand	Item No.
1680 Denier Ballistic Polyester Bucket					
Heavy-Duty, Open Bucket Design for Full Use of Bucket Interior	0	10	13 25/64	Milwaukee	53TX77
Cotton Canvas Buckets					
Line Hose Bag, Leather Cuff, Polypropylene Rope Handle	—	7	—	Klein Tools	2DFP5
Parachute Organizer Bag, Stackable, Water Resistant Reinforced Base, Stand Up Stay Open Design	0	10	11 1/64	Milwaukee	53TX76
Round Bucket Bag, #4 Canvas, Leather Bottom, 100-lb. Cap., Nylon Handle	1	12	17	Klein Tools	2DFN6
Round Bucket Bag, Polypropylene Bottom, 75-lb. Cap, Web Handle	—	12	15	Klein Tools	2DFP2
Straight Wall Bucket, Polypropylene Bottom, (2) 7x7 Pockets, Web Handle	2	9	14	Klein Tools	2DFN9
Straight Wall Bucket, Polypropylene Bottom, Web Handle	1	9	14	Klein Tools	2DFN8
Tapered Wall Bucket, Polypropylene Bottom, Web Handle	—	9 to 12	13	Klein Tools	36K965
Wide Opening Straight, Plastic Bottom with Feet, 100-lb. Cap., Rope Handle with Leather Reinforcement	0	12	15	Westward	53JW39
Wide Opening Straight, Split Leather Bottom, 100-lb. Cap., Rope with Leather Handle	0	12	17	Westward	53JW38
Wide Opening Straight, Split Leather Bottom, Zipper Closure, 100-lb Cap., Web Handle with Clip	0	12	22	Westward	53JW41
Wide Opening Straight Bucket, Canvas, Carabiner Hoist	1	16	20	Ergodyne	436D22
	1	12½	17	Ergodyne	436D21
Wide Opening Straight Bucket, Canvas, D-Ring Hoist	1	12½	17	Ergodyne	436D23
Wide Opening Straight Bucket, Canvas, Web Handle Hoist	1	16	20	Ergodyne	436D20
	1	12½	17	Ergodyne	436D19
Wide Opening Straight Bucket, Polyester, Polyester Hoist	1	12½	15	Ergodyne	436D25
Wide Opening Straight Bucket Tool Organizer, Plastic Bottom with Feet, 100-lb Cap., Web Handle with Clip	0	12	15	Westward	53JW40
Cotton Canvas Buckets w/Swivel Hooks					
Heavy-Duty Tapered Wall Bucket, Polypropylene Bottom, Riveted Leather Glove Strap	0	9	9	Klein Tools	2DGT5
	0	12	12	Klein Tools	2DGU4
Heavy-Duty Tapered Wall Bucket, Polypropylene Bottom, Riveted Leather Glove Strap	15	9	12	Klein Tools	2DGU5
Oval Bucket, Polypropylene Bottom, Tripod Suspension, Sisal-Rope Handle	15	14	10	Klein Tools	36K967
Oval Bucket, Polypropylene Bottom, Tripod Suspension, Sisal-Rope Handle	26	14	10	Klein Tools	2DGU2
Round Bucket Bag, Leather Bottom, 100-lb. Cap., Nylon Handle	1	12	17	Klein Tools	2DGT6
Straight Bucket, Plastic Bottom w/Drain Holes, 150-lb. Cap.	1	12	15	Klein Tools	34E641
Straight Wall Bucket, Polypropylene Bottom, Web Handle	0	9	14	Klein Tools	2DFP1
Tapered Wall Bucket, Polypropylene Bottom, Nylon Handle	—	9 to 12	13	Klein Tools	36K966
Utility Bucket, Leather Bottom, Zippered Top Closure, 150-lb. Cap.	1	14	17"	Klein Tools	34E639
	1	14	22	Klein Tools	34E640
Wide Opening Straight Bucket, Polyester	1	12½	15	Ergodyne	436D24
Wide Opening Straight Wall Bucket, Polypropylene Bottom, 75-lb. Cap.Web Handle	0	12	15	Klein Tools	2DFP4
Wide Opening Straight Wall Bucket, Polypropylene Bottom, 75-lb. Cap. Web Handle	1	12	15	Klein Tools	36K964

Description	L	Dia.	W	Brand	Item No.
Bucket Toppers					
Industrial Bucket Top, Polyester	12½"	12½"	12½"	Ergodyne	436D27
	16"	16"	16"	Ergodyne	436D26


No. 53TX76


No. 34E639


No. 436D26

KLEIN TOOLS

Weather-Resistant Tool Buckets and Duffel Bags

Note: Tools not included.

Description	No. of Pockets	W (in.)	D (in.)	H (in.)	Color	Item No.
Hard Body Tool Buckets						
Bucket w/Kickstand	15	14	7	10	Orange	34E634
Bucket w/Handles	15	14	7	10	Orange	34E635
Bucket w/Handles and Knife Sheath	15	14	7	10	Orange	34E637
Aerial Bucket w/Web Handles	29	14	7	10	Black	34E636
Duffel Bags						
Tool Bag, Vinyl	1	18	10	24	Orange	2DFU1
Tool Bag, Vinyl	1	24	10	20	Orange	34E632
Tool Bag, Vinyl	2	24	10	20	Black	34E631


No. 34E637


No. 34E631



No. 6C343

PROTO® SK® WESTWARD®

SAE, Metric and Specialty Master Sets

- See Grainger.com® for detailed information under the Tech Specs Tab plus additional Master Sets
- For additional tool storage recommendations, see the Optional Accessories Tab

SAE or Metric	No. of Pieces	Drive Size	No. of Sockets/Accs.	No. of Wrenches	No. of Pliers	No. of Screwdrivers	No. of Striking Tools	Brand	Mfr. Model	Item No.
Add-On Master Tool Set										
Storage-None										
Metric	111	¼", ⅜", ½"	91	18	0	0	0	Proto	J99570	**6C353**
SAE	111	⅜"	2	24	8	19	28	Proto	J99825	**5TJ05**
SAE, Metric	206	½", ¾"	89	8	2	2	—	Proto	J99945	**5TJ12**
Storage-Stacking Chest										
Metric	111	¼", ⅜", ½"	91	18	0	0	0	Proto	J99571A	**53GM04**
General Purpose										
Storage-Box										
Metric	248	¼", ⅜", ½", ¾"	110	45	14	12	18	Proto	J99730	**6C360**
Storage-Chest										
Metric	157	⅜", ½"	73	27	10	12	16	Proto	J99431A	**53GM13**
SAE	194	¼", ⅜", ½"	110	65	1	11	0	Proto	J99531A	**53GM41**
Storage-Rolling Cabinet										
Metric	248	¼", ⅜", ½", ¾"	110	45	14	12	18	Proto	J99731A	**53GM21**
SAE	411	¼", ⅜", ½"	192	94	14	21	32	Proto	J99832A	**53GM53**
	453	¼", ⅜", ½", ¾"	218	101	18	21	35	Proto	J99721A	**53GM54**
	453	¼", ⅜", ½", ¾"	218	101	18	21	35	Proto	J99722A	**53GM55**
SAE, Metric	497	¼", ⅜", ½"	287	102	11	19	31	Proto	J99922A	**53GM57**
	497	¼", ⅜", ½"	287	103	12	19	32	Proto	J99923K	**53GL73**
	613	¼", ⅜", ½", ¾", 1"	333	151	18	21	33	Proto	JCS-0613MASBX3K	**53GL72**
	613	¼", ⅜", ½", ¾", 1"	308	176	23	21	33	Proto	JCS-0613MASBX2A	**53GM60**
	1046	¼", ⅜", ½", ¾", 1"	508	178	20	25	42	Proto	JCS-1046MASBX3K	**53GL71**
	1046	¼", ⅜", ½", ¾", 1"	508	178	20	61	42	Proto	JCS-1046MASBX1A	**53GM35**
	1258	¼", ⅜", ½", ¾"	705	184	21	33	50	Proto	JCS-1258MASBX1A	**53GM37**
HVAC										
Storage-Bag										
SAE	70	0	0	19	7	8	7	Proto	JTS-0070HVAC	**1UDW7**
Storage-Caddy										
SAE	105	⅜"	28	26	7	8	6	Proto	JTS-0105HVAC	**1UDW6**
Intermediate										
Storage-Box										
SAE, Metric	564	¼", ⅜", ½", ¾"	309	119	18	21	35	Proto	100G52	**100G52**
Storage-None										
SAE	272	¼", ⅜", ½", ¾"	122	54	13	12	18	Proto	J99710	**6C357**
	453	¼", ⅜", ½", ¾"	218	101	18	21	35	Proto	J99720	**6C365**
Mechanic										
Storage-Case										
SAE, Metric	172	¼", ⅜", ½"	133	30	0	9	0	SK Professional Tools	86172A-1	**42W715**
Storage-None										
SAE, Metric	272	¼", ⅜", ½"	174	31	5	35	4	SK Professional Tools	VTS03211	**42W719**
	280	¼", ⅜", ½"	164	42	6	18	2	SK Professional Tools	VTS03289	**42W720**
	850	¼", ⅜", ½", ¾"	527	140	25	27	5	SK Professional Tools	86850A-1	**42W717**
Plumber										
Storage-Bag										
SAE, Metric	37	0	0	11	5	4	5	Proto	JTS-0037PLUM	**1UDY5**
Preventative Maintenance										
Storage-Case										
SAE	98	⅜"	33	21	4	12	13	Proto	J99480	**5TH98**
SAE, Metric	70	¼", ⅜"	35	12	0	13	0	Westward	40JD52	**40JD52**
	148	¼", ⅜", ½"	63	12	2	4	0	Westward	40JD43	**40JD43**
	170	¼", ⅜", ½"	76	12	2	4	0	Westward	40JD53	**40JD53**
Storage-None										
SAE	148	⅜"	15	36	3	19	1	Proto	J99660	**5TJ01**
	148	⅜", ½"	80	39	9	19	30	Proto	J99670	**7E222**
	165	⅜", ½"	76	27	10	12	15	Proto	J99490	**7D827**
SAE, Metric	179	¼", ⅜"	145	34	1	0	1	Proto	J99900	**5TJ07**
	273	¼", ⅜", ½"	202	38	0	11	0	Westward	40JD49	**40JD49**
	497	¼", ⅜", ½"	287	102	11	19	31	Proto	J99920	**7D824**
Railroad Mechanic										
Storage-Case										
SAE, Metric	204	¼", ⅜", ½"	171	11	0	0	0	Westward	440A57	**440A57**
Storage-None										
SAE	89	⅜", ½"	36	18	4	6	8	Proto	JTS-0089RR	**1UDY1**
	107	⅜", ½"	46	25	5	5	9	Proto	JTS-0107RR	**1UDX9**
	141	¼", ⅜", ½"	69	27	6	8	5	Proto	JTS-0141RR	**1UDY2**
	172	⅜", ½"	70	36	8	7	16	Proto	JTS-0172RR	**1UDY3**
Starter										
Storage-Box										
SAE	78	½"	30	17	5	7	10	Proto	J99300	**6C342**
Storage-None										
SAE	62	⅜"	22	11	5	5	10	Proto	J99200	**6C343**
Storage-Rolling Cabinet										
SAE	164	¼", ⅜", ½", ¾"	87	19	9	12	17	Proto	J99701A	**53GM15**
Technician										
Storage-Box										
SAE, Metric	1258	¼", ⅜", ½", ¾"	705	184	21	33	50	Proto	JCS-1258MAS	**1UDW5**
Storage-None										
SAE	334	¼", ⅜", ½", ¾", 1"	195	53	21	19	29	Proto	JCS-0334MAS	**1UDX3**
SAE, Metric	558	¼", ⅜", ½", ¾"	284	122	34	21	31	Proto	JCS-0558MAS	**1UDX4**
	613	¼", ⅜", ½", ¾", 1"	308	176	23	21	33	Proto	JCS-0613MAS	**1UDX2**
	833	¼", ⅜", ½", ¾"	395	175	18	21	35	Proto	JCS-0833MAS	**1UDX1**
	1046	¼", ⅜", ½", ¾", 1"	508	178	20	61	42	Proto	JCS-1046MAS	**1UDW9**

WESTWARD PROTO CHANNELLOCK CRESCENT

Multiple-Drive Socket Sets

Designed for industrial and production applications including: automotive manufacturing and assembly, steel fabrication, aerospace, chemical plants, petrochemical, mining, utility, telecom, government and military, transportation, fleet maintenance, general manufacturing, and MRO. Westward® black chrome sets are plated for added corrosion resistance and the set components are laser-etched with large, high visibility markings for enhanced tool identification.

No. 5C856



No. 53PN77



No. 38UU83



No. 9LNR4



No. of Pieces	Sockets Included	Includes	Brand	Item No.
Chrome Multiple Drive Sets, ¼" and ⅜"				
9	T10, T15, T20, T25, T27, T30, T40, T45, T47	—	Westward	**54TN07**
22	¼" Dr 6 Pt. Std. 9/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", ⅜" Dr 6 Pt. Std. 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) ⅜" Drive Pear Head Ratchet 7", (1) ¼" Drive Socket Spinner 6", (2) Socket Extensions 3", 6", (1) ⅜" F x ¼" M Adapter, (1) Blow Molded Case	Proto	**5C856**
65	¼" Drive 6 pt. std.: 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16". ⅜" Drive 6 pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16". ⅜" Drive 6 pt. Deep: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16". ¼" Drive 6 pt. std.: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm. ⅜" Drive 6 pt. std.: 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ⅜" Drive 6 pt. Deep: 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ¼" Drive 3" Wobble Extension. ⅜" Drive 6" Wobble Extension. ¼" Drive std. Ratchet, ⅜" Drive	¼" Ratchet, ⅜" Ratchet, Combination Wrenches 5/16", ⅜", 7/16", ½", 9/16", 10mm, 11mm, 12mm, 13mm, 14mm, 400 x 260 x 80mm Case	Westward	**53PN75**
91	¼" Drive 12-Point Std Socket: 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½". ⅜" Drive 12-Point Std Socket: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾". ¼" Drive 12-Point Std Socket: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm. ¼" Drive 12-Point Deep Socket: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm. ⅜" Drive 12-Point Std Socket: 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	¼" Dr. Magentic Bit Driver,Slotted Screwdriver Insert Bits: 1/8", 3/16", 5/32", ¼", 9/32". Screwdriver Insert Bit: P0, P1 , P2, P3 Phillips(R). Square Screwdriver Insert Bit: S0, S1, S2, S3. Hex Screwdriver Insert Bit: 1/8", 3/16", 5/32", 7/32", ¼". Torx(R) Screwdriver Insert Bit: T10, T15, T20, T25, T27, T30, T40. (9) SAE Hex Key. (7) MM Hex Key. ⅜" Drive 3" Extension. ¼" Drive Female Screwdriver Handle	Westward	**53PN77**
Chrome Multiple Drive Sets, ¼", ⅜" and ½"				
86	¼" Drive 6 pt. std.: 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½". ¼" Drive 6 pt. Deep Socket: 3/16", 7/32", ¼", 9/32". ⅜" Drive 6 pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾". ⅜" Drive 12 pt. std.: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾". ⅜" Drive 12 pt. Deep Socket: 5/16", 11/32", ⅜", 7/16", ½", 9/16". ½" Drive 12 pt. std.: ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1". ¼" Drive 6 pt. std.: 4mm, 4.5mm, 5mm, 5.5mm ,6mm, 7mm, 8mm, 9mm, 10mm. ⅜" Drive 6 pt. std.: 11mm, 12mm, 13mm, 14mm ,15mm, 17mm, 19mm. ⅜" Drive 12 pt. std.: 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ⅜" Drive 12 pt. Deep 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. ¼",3/8", ½" Drive std. Ratchet. ¼" Drive 3" Extension. ⅜" Drive 3" Extension. ½" Drive 6" Extension	—	Westward	**53PN73**
91	¼" Drive 6 pt. std.: 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½. ¼" Drive 6 pt. Deep: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½". ⅜" Drive 6 pt. std.: 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16" . ⅜" Drive 6 pt. Deep: 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16". ½" Drive 12 pt. std.: 13/16", ⅞", 13/16", 1". ¼" Drive 6 pt. std.: 4mm, 4.5mm, 5mm, 5.5mm ,6mm, 7mm, 8mm, 9mm, 10mm. ¼" Drive 6 pt. Deep: 7mm, 8mm, 9mm, 10mm. ⅜" Drive 6 pt. std.: 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ⅜" Drive 6 pt. Deep: 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ½" Drive 12 pt. std.: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. ½" Drive 12 pt. Deep: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. ¼",3/8", ½" Drive std. Ratchet. ¼" Drive 3" Wobble Extension. ⅜" Drive 3", 6"Wobble Extension. ½" Drive 3", 6" Wobble Extension	Combination Wrenches ⅜", 7/16", ½", 9/16:, 5/8"	Westward	**53PN76**
148	¼" Dr 6 Pt. Std. 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", ¼" Dr 6 Pt. Deep 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅝" Spark Plug, 13/16" Spark Plug. ⅜" Dr 12 Pt. Deep 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ½" Dr 6 Pt. Std. ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", ½" Dr 12 Pt. Std. ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 12 Pt. Deep ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8"	Socket Set (33TA21), Storage Toolbox	Proto	**33TA20**
205	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 12 Pt. Std. 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", ⅜" Dr 6 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", ⅞", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 8 Pt.Impact ¼", 5/16", ⅜", 7/16", ½", ½" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 1/2", ½" Dr 6 Pt. Deep 9/16", ¾", 15/16", 1 1/16", ½" Dr 12 Pt. Std. 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm, ½" Dr 12 Pt. Deep ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8"	Socket Rails, Socket Clips	Proto	**33TA22**
205	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 12 Pt. Std. 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", ⅜" Dr 6 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", ⅞", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 8 Pt.Impact ¼", 5/16", ⅜", 7/16", ½", ½" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 1/2", ½" Dr 6 Pt. Deep 9/16", ¾", 15/16", 1 1/16", ½" Dr 12 Pt. Std. 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm, ½" Dr 12 Pt. Deep ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8"	Socket Set (33TA22), Storage Toolbox	Proto	**33TA23**
302	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12mm, ¼" Dr 6 Pt. Deep 3/16", ¼", 5/16", ⅜", 7/16", ½", 11/32", 9/32", 7/32", 10, 11, 12, 13, 4, 5, 6, 7, 8, 9mm, ¼" Dr 12 Pt. Std. 3/16", 7/32", ¼", 9/32", 5/16", 11/32", ⅜", ½", ⅜" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 10, 11mm, ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Spark Plug, 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 9, 10, 11, 12, 13, 14, 15, 16mm, ½" Dr 6 Pt. Std. ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", ½" Dr 12 Pt. Std. 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 10, 11, 12, 13, 14, 15, 18, 19, 21, 22, 23, 24mm, ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	(1) ¼" Drive Pear Head Ratchet, (1) ⅜" Drive Pear Head Ratchet, (1) ½" Drive Pear Head Ratchet, (2) ¼" Drive Extensions 3", 6", (3) ⅜" Drive Extensions 3", 6", 8", (1) ½" Drive Extensions 2½", (14) ⅜" Drive Hex Bits 1/8", 5/32", ⅜", 5/16", ¼", 7/32", 3/16", 4, 5, 6, 7, 8, 10mm, (13) Long Hex Keys, (7) Short Hex Keys, (15) Metric Hex Keys, (1) ⅜" Drive Universal Joint, (1) ½" F x ⅜" M Adapter, (3) Flare Nut Wrenches ⅜" x 7/16", ½" x 9/16", ⅝" x 11/16", (25) Combination Wrenches ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18mm	Proto	**33TA25**

CONTINUED

CONTINUED

Multiple-Drive Socket Sets

WESTWARD PROTO CHANNELLOCK WORK HARD. SWEAT BLUE. CRESCENT

No. of Pieces	Sockets Included	Includes	Brand	Item No.
Chrome Multiple Drive Sets, ¼", ⅜" and ½" (Cont.)				
302	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 4, 5, 6, 7, 8, 9, 10, 11, 12mm, ¼" Dr 6 Pt. Deep 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 11/32", 9/32", 7/32", 10, 11, 12, 13, 4, 5, 6, 7, 8, 9mm, ¼" Dr 12 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 1/2", 3/8" Dr 6 Pt. Std. 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 6 Pt. Deep ⅜", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 10, 11mm, ⅜" Dr 12 Pt. Std. 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 5/8" Spark Plug, 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 9, 10, 11, 12, 13, 14, 15, 16mm, ½" Dr 6 Pt. Std. ½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", ½" Dr 12 Pt. Std. 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 10, 11, 12, 13, 14, 15, 18, 19, 21, 22, 23, 24mm, ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	Socket Set (33TA25), Storage Toolbox	Proto	**33TA26**
Chrome Multiple Drive Sets, ⅜"				
18	⅜" Drive 12 pt. std.: 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1". ⅜" Drive 3", 6" Extension. ⅜" Drive std. Ratchet	—	Westward	**53PN35**
Chrome Multiple Drive Sets, ⅜" and ½"				
127	⅜" Drive 6 pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4". ⅜" Drive 6 pt. Deep: 7/16", ½", 9/16", 5/8". ⅜" Drive 12 pt. std.: 5/16", 11/32", ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4". ½" Drive 12 pt. std.: 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4". ½" Drive 12 pt. Deep: 11/16", 3/4", 13/16", 7/8", 15/16", 1". ⅜" Drive 6 pt. std.: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ⅜" Drive 6 pt. Deep: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ⅜" Drive 12 pt. std.: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm. ½" Drive 12 pt. std.: 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm. ½" Drive 12 pt. Deep: 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm. ⅜" Drive 3", 6" Extension. ½" Drive 6", 10" Extension. ⅜" Drive 2" Universal Joint. ½" Drive 2" Universal Joint. ⅜" Drive Female to ½" Drive Male Adapter. ½" Drive Female to ⅜" Drive Male Adapter. ⅜" Drive Phillips® Screwdriver Socket: P1, P2, P3. ⅜" Drive Slotted Screwdriver Socket: 5/16", 1/4". ⅜" Drive std. Hex Socket: 5/16", 7/32", 1/4", 5/16", ⅜". ⅜" Drive Torx Bit Socket: T15, T20, T25, T27, T30, T40, T45, T47 . ⅜" Drive std. Ratchet, ½"	½" Dr. Ratchet, Combination Wrenches 1/4", 5/16", ⅜", 7/16", ½", 9/16", 6mm, 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 16mm	Westward	**53PN74**
Chrome Multiple Drive Sets, ⅜" Drive Size				
16	⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", 15/32", ½", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22mm,	(1) ⅜" Drive Pass-Thru Ratchet, (1) ⅜" Drive Extension 3", (1) ⅜" Drive Quick-Release Adapter, (13) UniFit SAE and Metric Pass-Thru Sockets That Fit External Torx E10, E12, E14, E16, E18, E20, E22, E24, E26, E28, Spline Drive M12, M14, M16, M18, M20, M22, Square Drive 5/16, ⅜, 7/16, ½, 9/16"	Channellock	**38UU83**
30	⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 9, 10, 12, 13, 14, 16, 17mm, ⅜" Dr 6 Pt. Deep 7/16", ½", 9/16", 5/8", 11/16", 12, 13, 14, 16, 17mm, 13/16" Spark Plug	(1) ⅜" Drive Ratchet, (2) Drive Extensions 3", 6", (1) Blow Molded Case	Crescent	**9LNR4**
Full Polish Multiple Drive Sets, ¼" and ⅜"				
63	¼" Dr 6 Pt. Std. 1/8", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 10, 11, 12, 13, 14, 15, 16, 17, 18mm, ⅜" Spark Plug	Socket Set (33HE09), Storage Toolbox (1AC37)	Proto	**33HE01**
63	¼" Dr 6 Pt. Std. 1/8", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 12 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 10, 11, 12, 13, 14, 15, 16, 17, 18mm, ⅜" Spark Plug	(1) ¼" Drive Pear Head Ratchet, (1) ⅜" Drive Pear Head Ratchet, (7) Hex Keys 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1"	Proto	**33HE09**
65	¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 6 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" 6 Pt. Deep 10, 11, 12, 13, 14, 15, 17, 18, 19mm, ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	(1) ¼" Drive Pear Head Ratchet, (1) ⅜" Drive Pear Head Ratchet, (1) Socket Spinner, (3) Drive Extensions, (1) Universal Joint, (1) F x M Adapter	Proto	**33HE13**
65	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 13/16", 5/8", 10, 11, 12, 13, 14, 15, 17mm, 5/8" Spark Plug	(1) Pear Head Ratchet, (1) Socket Spinner, (2) Drive Extensions, (1) F x M Adapter, (11) Insert Bits, (13) Hex Keys 5/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", ⅜"	Proto	**33HE14**
65	¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 6 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" 6 Pt. Deep 10, 11, 12, 13, 14, 15, 17, 18, 19mm, ⅜" Dr 12 Pt. Std. 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", ⅜" Dr 12 Pt. Deep 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	Socket Set (33HE13), Storage Toolbox (1AC37)	Proto	**33HE05**
65	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", 3/4", 13/16", 5/8", 10, 11, 12, 13, 14, 15, 17mm, 5/8" Spark Plug	Socket Set (33HE14), Storage Toolbox (1AC37)	Proto	**33HE06**
Full Polish Multiple Drive Sets, ¼", ⅜" and ½"				
81	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6mm, ¼" Dr 6 Pt. Deep 3/16", 1/4", 9/32", 5/16", ¼" Dr 12 Pt. Std. 3/16", 7/32", 5/16", 11/32", ⅜", 7/16", ½", 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 12 Pt. Deep 9/32", 1/4", ⅜" Dr 6 Pt. Std. ⅜, 7/16, 1/2, 9/16, 5/8, 11/16, ¾, 13/16", 10, 11, 12, 13, 14, 15, 17, 19mm, ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 9, 10 , 11, 12, 13, 14, 15, 16, 17, 19mm, ⅜" Spark Plug. ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ½" Dr 12 Pt. ½", 9/16", 5/8", ¾", 13/16"	¼" Drive Pear Head Ratchet, ⅜" Drive Pear Head Ratchet, ½" Drive Pear Head Ratchet, Drive Extension	Proto	**33HE12**
81	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6mm, ¼" Dr 6 Pt. Deep 3/16", 1/4", 9/32", 5/16", ¼" Dr 12 Pt. Std. 3/16", 7/32", 5/16", 11/32", ⅜", 7/16", ½", 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 12 Pt. Deep 9/32", 1/4", ⅜" Dr 6 Pt. Std. ⅜, 7/16, 1/2, 9/16, 5/8, 11/16, ¾, 13/16", 10, 11, 12, 13, 14, 15, 17, 19mm, ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 9, 10 , 11, 12, 13, 14, 15, 16, 17, 19mm, ⅜" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ½" Dr 12 Pt. ½", 9/16", 5/8", ¾", 13/16"	Socket Set (33HE12), Storage Toolbox (1AC37)	Proto	**33HE04**
101	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 8 Pt. Std. ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 5/8" Spark Plug, 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 1", ½" Dr 6 Pt. Std. ½", 9/16", 5/8", 11/16", ¾", 13/16", 7/8", 15/16", 1"	(3) Pear Head Ratchets, (1) Socket Driver, (4) Drive Extensions, (1) F x M Adapter	Proto	**33HE15**
101	¼" Dr 6 Pt. Std. 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 6 Pt. Deep 10, 12, 13, 14, 15, 17, 19mm, ⅜" Dr 8 Pt. Std. ¼", 5/16", ⅜", 7/16", ½", ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 5/8" Spark Plug, 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 1", ½" Dr 6 Pt. Std. ½", 9/16", 5/8", 11/16", ¾", 13/16", 7/8", 15/16", 1"	Socket Set (33HE15), Storage Toolbox (1AC35)	Proto	**33HE07**
125	¼" Dr 6 Pt. Std. 11/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 8 Pt. Std. ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 10, 12mm, ½" Dr 12 Pt. Std. ⅜", ¾", 13/16", ⅞", 15/16", 13, 21, 22, 23, 24mm	(3) Pear Head Ratchets, (1) Socket Spinners, (3) Drive Extensions, (1) Universal Joint, (9) Wrenches, (1) Driver Handle, (13) Hex Keys, (10) Socket Bits	Proto	**33HE16**
125	¼" Dr 6 Pt. Std. 11/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 8 Pt. Std. ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 13/16" Spark Plug, ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 10, 12mm, ½" Dr 12 Pt. Std. ⅜", ¾", 13/16", ⅞", 15/16", 13, 21, 22, 23, 24mm	Socket Set (33HE16), Storage Toolbox (1AC35)	Proto	**33HE08**
184	¼" Dr 6 Pt. Std. 7/32", 1/4", 9/32", 5/16", ⅜", 7/16", 3/16", ½", 9/16", 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", 5, 6, 7, 8, 9, 10, 11mm, ¼" Dr 12 Pt. Std. 7/32", 1/4", 9/32", 5/16", 11/32", ⅜, 7/16, 3/16, ½", 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 6 Pt. Std. 9, 11, 12, 13, 14, 15, 16, 17mm, ⅜" Dr 6 Pt. Deep 10, 11, 12, 13, 14mm, 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Std. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18mm, 5/16", ⅜", 7/16", ½", 17/32", 9/16", 19/32", 5/8", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Deep 5/16", ⅜", 7/16", 3/16", ½", 9/16", 9, 10, 11, 12, 13, 14, 15, 17, 18mm, ½" Dr 12 Pt. Std. 17, 18, 19, 21, 22mm, ¾", 13/16", ⅞", 15/16", 1".	—	Proto	**33HE10**
184	¼" Dr 6 Pt. Std. 7/32", 1/4", 9/32", 5/16", ⅜", 7/16", 3/16", ½", 9/16", 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm, ¼" Dr 6 Pt. Deep 1/4", 9/32", 5/16", 11/32", ⅜", 7/16", 5, 6, 7, 8, 9, 10, 11mm, ¼" Dr 12 Pt. Std. 7/32", 1/4", 9/32", 5/16", 11/32", ⅜, 7/16, 3/16, ½", 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, ⅜" Dr 6 Pt. Std. 9, 11, 12, 13, 14, 15, 16, 17mm, ⅜" Dr 6 Pt. Deep 10, 11, 12, 13, 14mm, 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Std. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18mm, 5/16", ⅜", 7/16", ½", 17/32", 9/16", 19/32", 5/8", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Deep 5/16", ⅜", 7/16", 3/16", ½", 9/16", 9, 10, 11, 12, 13, 14, 15, 17, 18mm, ½" Dr 12 Pt. Std. 17, 18, 19, 21, 22mm, ¾", 13/16", ⅞", 15/16", 1".	Socket Set (33HE10), Storage Toolbox (1AC47)	Proto	**33HE02**

PROTO® WESTWARD® Wera® Be a Tool Rebel S-K®

Chrome ¼"-Drive Socket Sets



No. 1AC60

No. of Pieces	Sockets Included	Includes	Brand	Item No.
w/out Ratchet				
SAE				
10	**12 Pt Deep**: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) Socket Rail 6¼", (10) Socket Clips	Proto	**1AC60**
	¼" Drive 12 pt. std.: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"	—	Westward	**53PN27**
	¼" Drive 12 pt. Deep: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"	—	Westward	**53PN28**
	¼" Drive, Deep: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"	—	Westward	**53PN26**
	¼" Drive 6 pt. std.: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"	—	Westward	**53PN25**
23	¼" Drive 12 pt. std.: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", ¼" Drive 12 pt. Deep: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", ¼" Drive 3", 6" Extension, ¼" Drive std. Ratchet	—	Westward	**53PN23**
26	¼" Drive 6 pt. std.: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"; ¼" Drive 6pt. Deep: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	¼" Drive Pear Head Ratchet 5", Drive Socket Driver, (2) Drive Extensions 2", 6", Universal Joint, Foam Organizational Tray	Proto	**54JG21**
SAE/Metric				
47	¼" Drive 12 pt. std.: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2". ¼" Drive 12 pt. Deep: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2". ¼" Drive 12 pt. std.: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm. ¼" Drive 12 pt. Deep: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm. ¼" Drive 3", 6" Extension. ¼" Drive std. Ratchet	290mm x 174mm x 50mm Case	Westward	**53PN22**
Metric				
	4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) Socket Rail 9", (12) Socket Clips	Proto	**5C855**
	4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) Socket Rail 9", (12) Socket Clips	Proto	**5C853**
12	¼" Drive 12 pt. Deep: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm	—	Westward	**53PN32**
	¼" Drive 6 pt. std.: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm	—	Westward	**53PN29**
	¼" Drive 6 pt. Deep: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm	—	Westward	**53PN30**
	¼" Drive 12 pt. std.: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm	—	Westward	**53PN31**
27	¼" Drive 12 pt. std.: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, ¼" Drive 12 pt. Deep: 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, ¼" Drive 3" , 6" Extension, ¼" Drive std. Ratchet	—	Westward	**53PN24**
w/Ratchet				
SAE				
12	**12 Pt Std**: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	¼" Drive Pear Head Ratchet 5", ¼" Drive Socket Spinner 6", Plastic Case	Proto	**5C864**
25	**6 Pt Std, 6 Pt Deep**: ¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) ¼" Drive Pear Head Ratchet 5", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5C851**
	6 Pt. ¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) ¼" Drive Pear Head Ratchet 6 11/16", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5NAV1**
	¼" Dr 12 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", ¼" Dr 12 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) ¼" Drive Pear Head Ratchet 5", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5C865**
	12 Pt. ¼" Dr 12 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", ¼" Dr 12 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) ¼" Drive Pear Head Ratchet 6 11/16", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5NAV6**
37	**6 Pt Std, 6 Pt Deep, 8 Pt Std**: ¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16". ¼" Dr 6 Pt. Deep 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16". ¼" Dr 8 Pt. Std. 1/4", 5/16", 3/8"	(1) ¼" Drive Pear Head Ratchet 5", (1) ¼" Drive Socket Spinner 6", (3) Drive Extensions 2", 3", 6", (1) Flex Extension 6¼", (1) Breaker Bar 5¾", (1) Sliding T-Handle 4½", (1) Universal Joint, (5) Socket Bits #1, #2 Phillips, 3/16", 1/4", ¼" Slotted, (1) Blow Molded Case	Proto	**5C852**
41	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	(1) ¼" Drive Flex Head Ratchet 6", (1) Universal Joint, (1) Wobble Extension 2¾6", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 3", 6", (1) Sliding T-Handle 6", (1) ¼" x ¼" Bit Adaptor with Quick-Release Chuck, (22) Insert Bits 5/64", 5/32", 1/8", 9/64", 3/32", 5/16", 7/32" Hex Plus, T8, T9, T10, T15, T20, T25, T30, T40 Torx, 4½, 5½, 8mm Slotted, #1, #2, #3 Phillips, #1, #2, #2 Pozidrive, (1) Metal Case	Wera	**5EPL9**
Metric				
17	**6 Pt Std**: 4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Pear Head Ratchet 5", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5C854**
	6 Pt Std: 4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Pear Head Ratchet 6 11/16", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5NAV2**
28	5, 5.5, 6, 7, 8, 10, 11, 12, 13mm	(1) ¼" Drive Pear Head Ratchet 5½", (1) Drive Extension 6", (1) Wobble Extension 2¾6", (1) ¼" Bit Adaptor With Quick-Release Chuck, (15) Insert Bits #1, #2, #3 Phillips, #1, #2 Pozidrive, T10, T15, T20, T25, T27, T30 Torx, 3, 4, 5, 6mm Hex Plus	Wera	**38UR79**
29	¼" Dr 6 Pt. Std. 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm, ¼" Dr 6 Pt. Deep 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Pear Head Ratchet 5", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5C857**
	6 Pt. ¼" Dr 6 Pt. Std. 4, 5, 5.52, 6, 7, 8, 9, 10, 11, 12, 13, 14mm, ¼" Dr 6 Pt. Deep 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Pear Head Ratchet 6 11/16"", (1) ¼" Drive Socket Driver 6", (2) Drive Extensions 2", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	**5NAV3**
42	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Flex Head Ratchet 6", (1) Universal Joint, (1) Wobble Extension 2¾6", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 3", 6", (1) Sliding T-Handle 6", (1) ¼" x ¼" Bit Adaptor with Quick-Release Chuck, (22) Insert Bits 3, 4, 5, 6, 8mm Hex Plus, T8, T9, T10, T15, T20, T25, T30, T40 Torx, 4½, 5½, 8mm Slotted, #1, #2, #3 Phillips, #1, #2, #2 Pozidrive, (1) Metal Case	Wera	**5EPL7**
62	**6 Pt.** ¼" Dr 6 Pt. Std. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm, ¼" Dr 6 Pt. Deep 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm, 3/8" Dr 6 Pt. Std. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22mm, 3/8" Dr 6 Pt. Deep 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) ¼" Drive Round Head Ratchet 4½", (2) ¼" Drive Extensions 2", 6", (1) 3/8" Drive Ratchet 7⅝", (2) 3/8" Drive Extensions 3", 6", (1) 3/8" F x ¼" M Adapter, (1) Universal Joint, (1) Blow Molded Case	SK	**20K446**
SAE, Metric				
41	**12 Pt.** ¼" Dr 12 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm, ¼" Dr 12 Pt. Deep ¼", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 6, 7, 8, 9, 10, 11, 12, 13, 14mm	(1) ¼" Drive Round Head Ratchet 4½", (2) Drive Extensions 2", 6", (1) Blow Molded Case	SK	**12D208**
44	¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm, ¼" Dr 6 Pt. Deep ¼", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	(1) ¼" Drive Round Head Ratchet 4½", (2) Drive Extensions 2", 6", (1) Blow Molded Case	SK	**12D201**
48	¼" Dr 6 Pt. Std. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm, ¼" Dr 6 Pt. Deep ¼", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	(1) ¼" Drive Round Head Ratchet 4½", (1) 1½" Thumbwheel Ratchet, (2) Drive Extensions 2", 6", (1) Universal Joint, (1) ¼" F x 3/8" M Adapter, (1) 3/8" F x ¼" M Adapters, (1) Blow Molded Case	SK	**12D199**
60	¼" Dr 6 Pt. Std. 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16mm, ¼" Dr 6 Pt. Deep 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	(1) ¼" Drive Round Head Ratchet 4½", (2) Drive Extensions 2", 6", (1) ¼" F x 3/8" M Adapter, (1) 3/8" F x ¼" M, (1) Blow Molded Case	SK	**12D202**

No. of Pieces	Description	Includes Extensions	Brand	Item No.
Socket Extension Sets				
Proto - ½" Drive Impact Socket Accessories				
3	Socket Extension Set, 3-Pc.	2½", 5", 10"	Proto	**31XR43**
3	Locking	3", 7", 15"	SK	**12D259**
4	Thumbwheel Ratchet	2", 3", 6"	SK	**12D258**

No. of Pieces	Description	Includes Extensions	Brand	Item No.
Socket Accessories				
4	Socket Extension Set 4-pc. Chrome	1¾", 3", 6", 12"	Proto	**31XR42**
Socket Extension Sets				
6	6 pc. Chrome with Plastic Tray	2", 3", 6", 8", 10", 14"	SK	**12D257**
6	Wobble	1½", 2", 4", 6", 8", 10", 14"	SK	**12D256**
6	6 pc. Locking, Chrome	2", 5", 6", 10", 12"	Proto	**6XW19**



Metric Set w/out Ratchet
No. 1AC94

SAE Set w/Ratchet
No. 5C858



PROTO® WESTWARD® SK® Wera

Chrome ⅜"-Drive Socket Sets

No. of Pieces	Sockets Included	Includes	Brand	Mfr. Model	Item No.
w/out Ratchet					
SAE					
5	8 Pt.: ¼", 5/16", ⅜", 7/16", ½"	(1) Socket Rail, (5) Socket Clips	Proto	J52109	**31XR44**
6	⅜: Drive 6 Pt. Deep: 11/16", ¾", 13/16", ⅞", 15/16", 1"	—	Westward	53PN40	**53PN40**
	⅜: Drive 6 Pt. std.: 11/16", ¾", 13/16", ⅞", 15/16", 1"	—	Westward	53PN38	**53PN38**
	⅜: Drive 12 Pt. Deep: 11/16", ¾", 13/16", ⅞", 15/16", 1"	—	Westward	53PN44	**53PN44**
	⅜: Drive 12 Pt. std.: 11/16", ¾", 13/16", ⅞", 15/16", 1"	—	Westward	53PN42	**53PN42**
7	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	(1) Socket Rail 6¼", (7) Socket Clips	Proto	J52100	**1AC83**
	6 Pt. Flex: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	Socket Rail	SK	4607	**20K465**
	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	(1) Socket Rail 6¼", (7) Socket Clips	Proto	J52102	**1AC81**
9	12 Pt. Std. Torque Adapter: ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞"	Steel Holder	Proto	J5100	**1Q810**
	12 Pt. Flex: ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	Socket Rail	SK	4609	**20K463**
	⅜: Drive 12 Pt. std.: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", ⅝"	—	Westward	53PN41	**53PN41**
	⅜" Drive 6 Pt. Deep: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", ⅝"	—	Westward	53PN39	**53PN39**
	⅜: Drive 6 Pt. std.: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", ⅝"	—	Westward	53PN37	**53PN37**
	⅜" Drive 12 Pt. Deep: ¼", 9/32", 5/16", 11/32", ⅜", 7/16", ½", 9/16", ⅝"	—	Westward	53PN43	**53PN43**
10	**6 Pt Std**: 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) Socket Rail 9", (10) Socket Clips	Proto	J52122	**5C871**
	5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) Socket Rail 9", (10) Socket Clips	Proto	J52111	**4JW16**
	3/16", 1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	(1) Socket Rail 9", (10) Socket Clips, (10) Super Short Sockets	Proto	J52123	**5TH20**
	5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) Socket Rail 9", (10) Socket Clips	Proto	J52107	**4JW15**
13	**6 Pt. Std.**: 1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	Socket Rail	SK	4613	**20K479**
	1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) Socket Rail 13", (13) Socket Clips	Proto	J52126	**5C872**
	6 Pt. Deep: 1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	Socket Rail	SK	4413	**20J998**
	1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) Socket Rail 13", (13) Socket Clips	Proto	J52114	**5C874**
	12 Pt. Std.: 1/4", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1"	Socket Rail	SK	4653	**20K475**
	1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) Socket Rail 13", (13) Socket Clips	Proto	J52124	**5C867**
	12 Pt. Deep: 1/4", 5/16", ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1"	Socket Rail	SK	4453	**20K458**
	1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) Socket Rail 13", (13) Socket Clips	Proto	J52112	**5C869**
20	**6 Pt.** ⅜" Dr 6 Pt. Std. 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞". ⅜" Dr 6 Pt. Deep 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	Socket Rail	SK	89040	**20K473**
23	⅜" Drive 6 Pt. std.: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Drive 6 Pt. Deep: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", Universal Joint, Foam Organizational Tray	Proto	J52134K	**54JG22**
	⅜" Drive 6 Pt. std.: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Drive 6 Pt. Deep: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	⅜" Drive Precision 90 Ratchet 7", (2) Drive Extensions 3", 6", Universal Joint, Foam Organizational Tray	Proto	J52134HTCK	**54JG23**
Metric					
10	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) Socket Rail 9", (10) Socket Clips, (10) Universal Sockets	Proto	J52201	**5F416**
11	**12 Pt. Deep**: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	1871	**20K459**
12	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) Socket Rail 13", (12) Socket Clips	Proto	J52212	**1AC94**
	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) Socket Rail 13", (12) Socket Clips	Proto	J52205	**4JW18**
	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) Socket Rail 13", (12) Socket Clips	Proto	J52216	**1AC92**
	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) Socket Rail 13", (12) Socket Clips	Proto	J52209	**4JW20**
13	**6 Pt. Std.**: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	13S	**42W703**
	12 Pt. Std.: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	89023	**20K476**
14	**6 Pt. Deep**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	1854	**20K460**
18	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23mm	(1) Socket Rail 17", (18) Socket Clips	Proto	J52203	**4JW17**
	12 Pt. Std.: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	Socket Rail	SK	3958	**20K477**
	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23mm	(1) Socket Rail 17", (18) Socket Clips	Proto	J52207	**4JW19**
21	**6 Pt Std**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	(2) Socket Rails 9", 11", (21) Socket Clips	Proto	J52211	**4JW21**
	12 Pt Std: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	(2) Socket Rails 9", 11", (21) Socket Clips	Proto	J52215	**4JW22**
24	**6 Pt.** ⅜" Dr 6 Pt. Std. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm. ⅜" Dr 6 Pt. Deep 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	89024	**20K474**
33	**6 Pt.** ⅜" Dr 6 Pt. Std. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ⅜" Dr 6 Pt. Deep 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, ½" Dr 6 Pt. Flex 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Socket Rail	SK	89016	**20K456**
SAE and Metric					
6	⅜: Drive 12 Pt. std.: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm	—	Westward	53PN50	**53PN50**
	⅜: Drive 6 Pt. std.: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm	—	Westward	53PN48	**53PN48**
	⅜: Drive 6 Pt. std.: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm	—	Westward	53PN46	**53PN46**
	⅜: Drive 12 Pt. Deep: 20mm, 21mm, 22mm, 23mm, 24mm, 25mm	—	Westward	53PN52	**53PN52**
14	⅜" Drive 6 Pt. Deep: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	—	Westward	53PN47	**53PN47**
	⅜: Drive 6 Pt. std.: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	—	Westward	53PN45	**53PN45**
	⅜: Drive 12 Pt. std.: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	—	Westward	53PN49	**53PN49**
	⅜" Drive 12 Pt. Deep: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	—	Westward	53PN51	**53PN51**
w/Ratchet					
SAE					
23	⅜" Drive 12 Pt. std.: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Drive 12 Pt. Deep: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	⅜" Drive Precision 90 Ratchet 7", (2) Drive Extensions 3", 6", Universal Joint, Foam Organizational Tray	Proto	J52136HTCK	**54JG25**
12	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Blow Molded Case	Proto	J52128	**5C873**
	6 Pt Std: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 8½", (2) Drive Extensions 3", 6", (1) Blow Molded Case	Proto	J52128XL	**5NAV8**
	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 8½", (2) Drive Extensions 3", 6", (1) Blow Molded Case	Proto	J52130XL	**5NAW1**
	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Blow Molded Case	Proto	J52130	**5C866**
15	⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 12", (1) Breaker Bar 8½", (1) Universal Joint, (1) Speed Handle 15½", (1) Blow Molded Case	Proto	J52132	**5C868**
18	**6 Pt.** ⅜" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", ⅝" Spark Plug Socket	(1) ⅜" Drive Round Head Ratchet 7½", (2) Drive Extensions 3", 6", (1) Blow Molded Case	SK	94520	**20K451**
21	**6 Pt.** ⅜" Dr 6 Pt. Std. 1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾". ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Round Head Ratchet 7½", (2) Drive Extensions 1½", 6", (1) Blow Molded Case	SK	4521	**20K452**
	12 Pt. ⅜" Dr 12 Pt. Std. 1/4", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Round Head Ratchet 7½", (2) Drive Extensions 1½", 6", (1) Blow Molded Case	SK	4551	**20K450**
22	⅜" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	J52134	**5C858**
	6 Pt. ⅜" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Dr 6 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 8½", (2) Drive Extensions 3", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	J52134XL	**5NAV9**
	⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	J52136	**5C875**
	12 Pt. ⅜" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞", ⅜" Dr 12 Pt. Deep ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 13/16", ⅞"	(1) ⅜" Drive Pear Head Ratchet 8½", (2) Drive Extensions 3", 6", (1) Universal Joint, (1) Blow Molded Case	Proto	J52136XL	**5NAW3**

CONTINUED

CONTINUED

Chrome 3/8"-Drive Socket Sets

PROTO® ★WESTWARD® SK® Wera Be A Tool Rebel

No. of Pieces	Sockets Included	Includes	Brand	Mfr. Model	Item No.
w/Ratchet (Cont.)					
SAE (Cont.)					
23	3/8" Drive 12 Pt. std.: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 3/8" Drive 12 Pt. Deep: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	3/8" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", Universal Joint, Foam Organizational Tray	Proto	J52136K	**54JG24**
28	**6 Pt.** 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16"	(1) 1/2" Drive Pear Head Ratchet 11", (1) Drive Extension 10", (1) Wobble Extension 2", (1) 5/16" Bit Adapter with Quick-Release Chuck, (14) Insert Bits #2, #3 Phillips, T20, T25, T27, T30, T40, T45, T50, T55 Torx, 7/32", 1/4", 5/16", 3/8" Hex	Wera	05004080001	**38UR86**
29	**6 Pt.** 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	(1) 3/8" Drive Pear Head Ratchet 8 3/4", (1) Drive Extension 8", (1) Wobble Extension 3", (1) 1/4" Bit Adaptor with Quick-Release Chuck, (16) Insert Bits: #1, #2, #3 Phillips, #1, #2 Pozidrive, T15, T20, T25, T27, T30, T40 Torx, 5/32", 3/16", 7/32", 1/4", 5/16" Hex Plus	Wera	05004050001	**38UR83**
32	**6 Pt.** 3/8" Dr 6 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 3/8" Dr 6 Pt. Deep 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 5/8" Spark Plug	(1) 3/8" Drive Round Head Ratchet 7 1/2", (2) Drive Extensions 3", 12", (1) Breaker Bar 10", (1) Universal Joint, (1) Blow Molded Case	SK	4532	**20K454**
33	3/8" Dr 8 Pt. Std. 1/4", 5/16", 3/8", 3/8" Dr 12 Pt. Std. 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 3/8" Dr 12 Pt. Deep 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 3/8" Dr 12 Pt. Flex 7/16", 1/2", 9/16", 5/8", 3/4"	(1) 3/8" Drive Pear Head Ratchet 7", (3) Drive Extensions 3", 6", 12", (1) Breaker Bar 7 7/8", (1) Universal Joint, (1) Speed Handle 15 1/2", (1) Blow Molded Case	Proto	J52138	**5C859**
	3/8" Dr 8 Pt. Std. 7/16", 1/2", 9/16", 5/8", 3/4", 3/8" Dr 12 Pt. Std. 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 3/8" Dr 12 Pt. Deep 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	(1) 3/8" Drive Pear Head Ratchet 8 1/2", (3) Drive Extensions 3", 6", 12", (1) Breaker Bar 7 7/8", (1) Universal Joint, (1) Speed Handle 15 1/2", (1) Blow Molded Case	Proto	J52138XL	**5NAW4**
38	1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	(1) 3/8" Drive Flex Head Ratchet 8 13/16", (1) Universal Joint, (1) Wobble Extension 3", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 5", 8", (1) Sliding T-Handle 6 1/2", (1) 3/8" x 1/4" Bit Adaptor With Quick-Release Chuck, (19) Insert Bits 5/64", 3/32" 1/8", 9/64", 5/32", 3/16", 7/32" Hex Plus, T10, T15, T20, T25, T27, T30, T40 Torx, 5 1/2" Slotted, #2, #3 Phillips, #2, #3 Pozidrive, (1) Metal Case	Wera	05003596001	**5EPN6**
58	3/8" Dr 8 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 3/8" Dr 12 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 3/8" Dr 12 Pt. Deep 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 3/8" Dr 12 Pt. Flex 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	(1) 3/8" Drive Pear Head Ratchet, (2) Ratchet Adapters, (3) 3/8" Drive Extensions 3", 6", 12", (1) Breaker Bar 7 7/8", (1) Universal Joint, (1) 16 7/8" Speed Handle, (1) Sliding T-Handle, (3) Power Trains, (11) Socket Bits 1/8", 1/4", 5/32", 3/16", 5/16", 7/32", 3/8" Hex, #2, #3, #4 Phillips, 1/4" Slotted	Proto	J52142	**5C860**
	3/8" Dr 8 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 3/8" Dr 12 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 3/8" Dr 12 Pt. Deep 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 3/8" Dr 12 Pt. Flex 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	(1) 3/8" Drive Pear Head Ratchet, (2) Ratchet Adapters, (3) 3/8" Drive Extensions 3", 6", 12", (1) Breaker Bar 7 7/8", (1) Universal Joint, (1) 16 7/8" Speed Handle, (1) Sliding T-Handle, (3) Power Trains, (11) Socket Bits 1/8", 1/4", 5/32", 3/16", 5/16", 7/32", 3/8" Hex, #2, #3, #4 Phillips, 1/4" Slotted, Metal Tool Box with Tray	Proto	J52140	**5C861**
Metric					
16	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	3/8" Drive Pear Head Ratchet 7", Drive Extension 6", Blow Molded Case	Proto	J52218	**5C878**
	12 Pt Std: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	3/8" Drive Pear Head Ratchet 8 1/2", Drive Extension 6", Blow Molded Case	Proto	J52218XL	**5NAW5**
22	**6 Pt.** 3/8" Dr 6 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 6 Pt. Deep 10, 11, 12, 13, 14, 15, 17, 19mm, 5/8" Spark Plug	(1) 3/8" Drive Round Head Ratchet 7 1/2", (2) Drive Extensions 3", 6", (1) Blow Molded Case	SK	91820	**20K455**
29	3/8" Dr 6 Pt. Std. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 6 Pt. Deep 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Breaker Bar 8 1/2", (1) Universal Joint, (1) Blow Molded Case	Proto	J52220	**5C881**
	6 Pt. 3/8" Dr 6 Pt. Std. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 6 Pt. Deep 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Pear Head Ratchet 8 1/2", (2) Drive Extensions 3", 6", (1) Breaker Bar 8 1/2", (1) Universal Joint, (1) Blow Molded Case	Proto	J52220XL	**5NAW0**
	6 Pt. 8, 10, 12, 13, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Pear Head Ratchet 8 3/4", (1) Drive Extension 8", (1) Wobble Extension 3", (1) 1/4" Bit Adaptor With Quick-Release Chuck, (16) Insert Bits #1, #2, #3 Phillips, #1, #2 Pozidrive, T15, T20, T25, T27, T30, T40 Torx, 3, 4, 5, 6, 8mm Hex Plus	Wera	05004047001	**38UR82**
	3/8" Dr 12 Pt. Std. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 12 Pt. Deep 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Pear Head Ratchet 7", (2) Drive Extensions 3", 6", (1) Breaker Bar 8 1/2", (1) Universal Joint, (1) Blow Molded Case	Proto	J52222	**5C883**
43	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24mm	(1) 3/8" Drive Flex Head Ratchet 9", (1) Universal Joint, (1) Wobble Extension 3", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 5", 8", (1) Sliding T-Handle 6 1/2", (1) 3/8" x 1/4" Bit Adaptor With Quick-Release Chuck, (18) Insert Bits 3, 4, 5, 6, 8, 10mm Hex Plus, T10, T15, T20, T25, T27, T30, T40 Torx, 5-1/2mm Slotted, #2, #3, Phillips, #2, #3 Pozidrive, (1) Metal Case	Wera	05003594001	**5EPN4**
57	3/8" Dr 12 Pt. Std. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22mm, 3/8" 12 Pt. Deep 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm, 3/8" Dr 12 Pt. Flex 9, 10, 11, 12, 13, 14, 15mm	(1) 3/8" Drive Pear Head Ratchet 7", (3) Drive Extensions 3", 6", 12", (1) Breaker Bar 7 7/8", (1) Universal Joint, (1) Speed Handle 16 7/8", (1) Sliding T-Handle 8", (1) Ratchet Adapters, (10) Socket Bits 4, 5, 6, 7, 8, 10mm Hex, #2, #3, #4 Phillips, 1/4" Slotted, (1) Metal Tool Box	Proto	J52226	**5C885**
SAE and Metric					
23	3/8" Drive 12 Pt. std.: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. 3/8" Drive 3", 6" Extension. 3/8" Drive std. Ratchet	—	Westward	53PN36	**53PN36**
30	3/8" Drive 12 Pt. std.: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Drive 12 Pt. Deep: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	3/8" Drive Pear Head Ratchet 7", (2) Extensions 3", 6", Breaker Bar, Universal Joint, Foam Organizational Tray	Proto	J52222K	**54JG26**
34	3/8" Dr 12 Pt. Std. 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm, 3/8" Dr 12 Pt. Deep 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8"	Socket Set (33HE11), Storage Toolbox (1AC37)	Proto	J52230-1	**33HE03**
	3/8" Dr 12 Pt. Std. 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm, 3/8" Dr 12 Pt. Deep 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8"	(1) 3/8" Drive Pear Head Ratchet, (2) Drive Extensions, (1) Universal Joint	Proto	J52230	**33HE11**
38	3/8" Drive 12 Pt. std.: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1". 3/8" Drive 12 Pt. std.: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. 3/8" Drive 3", 6" Extension. 3/8" Drive std. Ratchet	Case 11 7/10" L x 7 3/5" W x 2 1/2" D	Westward	53PN34	**53PN34**
47	**6 Pt.** 3/8" Dr 6 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 6 Pt. Deep 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Round Head Ratchet 7 1/2", (2) Drive Extensions 3", 6", (1) Blow Molded Case	SK	94547	**12D204**
	12 Pt. 3/8" Dr 12 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 12 Pt. Deep 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Round Head Ratchet 7 1/2", (2) Drive Extensions 3", 6", (1) Blow Molded Case	SK	94547-12	**12D209**
49	**6 Pt.** 3/8" Dr 6 Pt. Std. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, 3/8" Dr 6 Pt. Deep 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) 3/8" Drive Round Head Ratchet 7 1/2", (1) 1 1/2" Thumbwheel Ratchet, (2) Drive Extensions 3", 6", (1) Universal Joint, (1) Blow Molded Case	SK	94549	**12D203**
73	3/8" Drive 12 Pt. std.: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1". 3/8" Drive 12 Pt. Deep: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1". 3/8" Drive 12 Pt. std.: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. 3/8" Drive 12 Pt. Deep: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm. 3/8" Drive 3", 6" Extension. 3/8" Drive std. Ratchet	—	Westward	53PN33	**53PN33**

No. of Pieces	Type	Includes	Brand	Mfr. Model	Item No.
Socket Extension Sets					
3	Locking	7 1/2, 13 1/2, 19 1/2" Extensions, Plastic Tray	SK	4516	**12D276**
4	—	1 1/2, 3, 6, 12" Extensions, Plastic Tray	SK	4514	**12D275**
4	Wobble	3, 6, 8, 12" Extensions, Plastic Tray	SK	4524	**12D274**
6	—	1 1/2, 3, 4, 6, 8, 10" Extensions, Plastic Tray	SK	4536	**12D271**
8	—	1 1/2, 3, 4, 6, 8, 10, 18, 24" Extensions, Plastic Tray	SK	4538	**12D270**
8	Wobble	1 1/2, 3, 4, 6, 8, 10, 18, 24" Extensions, Plastic Tray	SK	4539	**12D272**



SAE Set w/ out Ratchet No. 20K350



Metric Set w/out Ratchet No. 4JW30

Chrome ½"-Drive Socket Sets

WESTWARD PROTO SK Wera

No. of Pieces	Sockets Included	Includes	Brand	Item No.
w/out Ratchet				
SAE				
7	½" Drive 12 Pt. Deep: 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8"	—	Westward	**53PN64**
	½" Drive 12 Pt. std.: 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8"	—	Westward	**53PN62**
	½" Drive 6 Pt. Deep: 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8"	—	Westward	**53PN60**
	½" Drive 6 Pt. std.: 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8"	—	Westward	**53PN58**
10	½" Drive 6 Pt. Deep: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16"	—	Westward	**53PN59**
	½" Drive 12 Pt. Deep: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16"	—	Westward	**53PN63**
	½" Drive 6 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16"	—	Westward	**53PN57**
	½" Drive 12 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16"	—	Westward	**53PN61**
11	½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8"	(1) Socket Rail 17", (11) Socket Clips	Proto	**15V181**
12	**6 Pt. Deep**: ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4"	Socket Rail	SK	**20K411**
	12 Pt. Deep: ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4"	Socket Rail	SK	**20K405**
13	**6 Pt. Std.**: 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4"	Socket Rail	SK	**42W707**
15	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	(1) Socket Rail 17", (15) Socket Clips	Proto	**5C893**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	(1) Socket Rail 17", (15) Socket Clips	Proto	**4JW24**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	(1) Socket Rail 17", (15) Socket Clips	Proto	**5C887**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	(1) Socket Rail 17", (15) Socket Clips	Proto	**5C914**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	(1) Socket Rail 17", (15) Socket Clips	Proto	**4JW26**
19	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	(1) Socket Rail 17", (19) Socket Clips	Proto	**4JW27**
	6 Pt. Deep: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	Blow Molded Case	SK	**20K350**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	(1) Socket Rail 17", (19) Socket Clips	Proto	**4JW23**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	(1) Socket Rail 17", (19) Socket Clips	Proto	**4JW28**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	(1) Socket Rail 17", (19) Socket Clips	Proto	**4JW25**
34	½" Drive 12 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8". ½" Drive 12 Pt. Deep: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8"	—	Westward	**53PN56**
37	½" Drive 12 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8". ½" Drive 12 Pt. Deep: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8". ½" Drive 3",6" Extension	—	Westward	**53PN53**
Metric				
10	½" Drive 12 Pt. Deep: 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN72**
	½" Drive 6 Pt. Deep: 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN68**
	½" Drive 12 Pt. std.: 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN70**
	½" Drive 6 Pt. std.: 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN66**
12	½" Drive 12 Pt. Deep: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm	—	Westward	**53PN71**
	½" Drive 6 Pt. std.: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm	—	Westward	**53PN65**
	½" Drive 6 Pt. Deep: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm	—	Westward	**53PN67**
	½" Drive 12 Pt. std.: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm	—	Westward	**53PN69**
15	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	(1) Socket Rail 17", (15) Socket Clips	Proto	**5F466**
	6 Pt. Deep: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	Socket Rail	SK	**20K409**
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	(1) Socket Rail 17", (15) Socket Clips	Proto	**5C902**
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	(1) Socket Rail 17", (15) Socket Clips	Proto	**4JW30**
21	**6 Pt. Deep**: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm	Socket Rail	SK	**20K410**
	12 Pt. Deep: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm	Socket Rail	SK	**20K408**
23	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32mm	(2) Socket Rails 13", 17", (23) Socket Clips	Proto	**4JW31**
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32mm	(2) Socket Rails 17", (23) Clips	Proto	**4JW29**
24	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 36mm	(2) Socket Rails 17", (24) Socket Clips	Proto	**4JW32**
44	½" Drive 12 Pt. std.: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm. ½" Drive 12 Pt. Deep: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN54**
47	½" Drive 12 Pt. std.: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm. ½" Drive 12 Pt. Deep: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm	—	Westward	**53PN55**
w/Ratchet				
SAE				
12	7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1"	½" Drive Pear Head Ratchet 10", Drive Extension 5", Blow Molded Case	Proto	**5C891**
16	**12 Pt. Std.**: 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4"	½" Drive Round Head Ratchet 10 5⁄16", Drive Extension 5", Breaker Bar 16", Blow Molded Case	SK	**20J994**
18	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10", Drive Extension 5", Breaker Bar 15¾", Blow Molded Case	Proto	**5C894**
	6 Pt Std: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10½", Drive Extension 5", Breaker Bar 15¾", Blow Molded Case	Proto	**5NAX1**
	3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10", Drive Extension 5", Breaker Bar 15¾", Blow Molded Case	Proto	**5C895**
	12 Pt Std: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10½", Drive Extension 5", Breaker Bar 15¾", Blow Molded Case	Proto	**5NAX0**
19	½" Drive 12 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10", Extension 5", Breaker Bar 15¾", Foam Organizational Tray	Proto	**54JG27**
	½" Drive 6 Pt. std.: 3⁄8", 7⁄16", ½", 9⁄16", 5⁄8", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4"	½" Drive Pear Head Ratchet 10", Extension 5", Breaker Bar 15¾", Foam Organizational Tray	Proto	**54JG28**

CONTINUED

CONTINUED



SAE Set w/ Ratchet No. 5NAX2



SAE & Metric Set w/Ratchet No. 12D205

Chrome ½"-Drive Socket Sets

WESTWARD PROTO SK® Wera

No. of Pieces	Sockets Included	Includes	Brand	Item No.
w/Ratchet (Cont.)				
SAE (Cont.)				
23	**6 Pt.** ½" Dr 6 Pt. Std. 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞"	½" Drive Round Head Ratchet 10 5/16", Drive Extension 5", Breaker Bar 16", Blow Molded Case	SK	20K412
	12 Pt. Std.: ½" Dr 12 Pt. Std. 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞"	½" Drive Round Head Ratchet 10 5/16", Drive Extension 5", Breaker Bar 16", Blow Molded Case	SK	20J991
26	⅜", 7/16", ½", 9/16", 19/32", 5/8", 21/32", 11/16", ¾", 25/32", 13/16", ⅞", 15/16", 31/32", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4"	(1) ½" Drive Pear Head Ratchet 10", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 18 5/8", (1) Universal Joint, (1) Speed Handle 18 5/16", (1) Metal Tool Box	Proto	5C888
27	7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 5/8" Spark Plug	(1) ½" Drive Pear Head Ratchet 10", (2) Drive Extensions 5", 10", (1) Breaker Bar 15¾", (1) Universal Joint, (1) Tongue and Groove Pliers 10 3/16", (7) Combination Wrenches ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", (1) Metal Tool Box	Proto	5C897
28	**6 Pt. Std.**: ½" Dr 6 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 6 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1"	(1) ½" Drive Round Head Ratchet 10 5/16", (2) Drive Extensions 2", 5", (1) Breaker Bar 16", (1) Universal Joint, (1) Tool Box	SK	20K413
30	**12 Pt.** ½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4". ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	(1) ½" Drive Round Head Ratchet 10 5/16", (2) Drive Extensions 5", 10", (1) Breaker Bar 16", (1) Tool Box	SK	20J996
	½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	(1) ½" Drive Pear Head Ratchet 10", (2) Drive Extensions 5", 10", (1) Breaker Bar 15¾", (1) Blow Molded Case	Proto	5C896
	12 Pt. ½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4". ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	(1) ½" Drive Pear Head Ratchet 10½", (2) Drive Extensions 5", 10", (1) Breaker Bar 15¾", (1) Blow Molded Case	Proto	5NAX2
31	½" Drive 12 Pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Drive 12 Pt. Deep: ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	½" Drive Pear Head Ratchet 10", (2) Extension 5", 10", Breaker Bar 15¾", Foam Organizational Tray	Proto	54JG29
	½" Drive 12 Pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Drive 12 Pt. Deep: ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	½" Drive Premium Pear Head Ratchet 10/1/2", (2) Extension 5", 10", Break Bar 15¾", Foam Organizational Tray	Proto	54JG30
	½" Drive 12 Pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Drive 12 Pt. Deep: ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	½" Drive Precision 90 Ratchet 11", (2) Extensions 5", 10", Breaker Bar 15¾", Foam Organizational Tray	Proto	54JG31
38	⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 31/32", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4"	(1) ½" Drive Flex Head Ratchet 11", (1) Universal Joint, (1) Wobble Extension 2", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 5, 10", (1) Sliding T-Handle 10", (1) 5/16" Bit Adaptor With Quick-Release Chuck, (13) Insert Bits 5, 6, 8, 10mm Hex, #3 Phillips, #3 Pozidrive, T20, T25, T30, T40, T45, T50, T55 Torx, (1) Metal Case	Wera	5EPP3
40	**12 Pt.** ½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2", ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4"	(2) ½" Drive Round Head Ratchets 10 5/16", 15", (3) Drive Extensions 3", 5", 10", (1) Breaker Bar 16", (1) Speed Handle 18 1/16", (1) Sliding T-Handle 10 13/16", (1) Universal Joint	SK	20J997
65	½" Dr 8 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 1", ½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 19/32", 5/8", 11/16", ¾", 25/32", 13/16", ⅞", 29/32", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2", ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 12 Pt. Flex ½", 9/16", 5/8"	(2) ½" Drive Pear Head Ratchets 10", 16", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 18 5/8", (1) Universal Joint, (1) Speed Handle 18", (1) Sliding T-Handle 8½", (1) Ratchet Adapter, (1) ½" Drag Link, (7) Socket Bits ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8" Hex	Proto	5C898
	½" Dr 8 Pt. Std. ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 1", ½" Dr 12 Pt. Std. ⅜", 7/16", ½", 9/16", 19/32", 5/8", 11/16", ¾", 25/32", 13/16", ⅞", 29/32", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2", ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Dr 12 Pt. Flex ½", 9/16", 5/8"	(2) ½" Drive Pear Head Ratchets 10", 16", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 18 5/8", (1) Universal Joint, (1) Speed Handle 18", (1) Sliding T-Handle 8½", (1) Ratchet Adapter, (1) ½" Drag Link, (7) Socket Bits ¼", 5/16", ⅜", 7/16", ½", 9/16", 5/8" Hex, (1) 4-Drawer Top Chest With Tray	Proto	5C899
66	½" Drive 8 Pt. std.: ⅜", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 1", ½" Drive 12 Pt. std.: ⅜", 7/16", ½", 9/16", 19/32", 5/8", 11/16", ¾", 25/32", 13/16", ⅞", 29/32", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2", ½" Drive 12 Pt. Deep: ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", ½" Drive 12 Pt. Flex: ½", 9/16", 5/8"	½" Drive Pear Head Ratchet 10", 16", (3) Extensions 2½", 5", 10", Break Bar 18 5/8", ⅜" Black Oxide 8½", Sliding T-Handle ⅜", Universal Joint, (7) Socket Bits ½", ¼", ⅜", 5/16", 5/8", 7/16", 9/16", Adapter, Foam Organizational Tray	Proto	54JG32
Metric				
16	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23mm	½" Drive Pear Head Ratchet 10", Drive Extension 5", Blow Molded Case	Proto	5C900
22	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	(1) ½" Drive Pear Head Ratchet 10", (2) Drive Extensions 5", 10", (1) Breaker Bar 18 5/8", (1) Universal Joint, (1) Metal Tool Box	Proto	5C903
29	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 36mm	(1) ½" Drive Pear Head Ratchet 10", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 15¾", (1) Universal Joint, (1) Blow Molded Case	Proto	5C904
	12 Pt Std: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 36mm	(1) ½" Drive Pear Head Ratchet 10½", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 15¾", (1) Universal Joint, (1) Blow Molded Case	Proto	5NAX4
31	½" Dr 12 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm, ½" Dr 12 Pt. Deep 16, 17, 18, 19, 20, 21, 22, 24, 25, 26mm	(1) ½" Drive Pear Head Ratchet 10", (2) Drive Extensions 5", 10", (1) Breaker Bar 15¾", (1) Blow Molded Case	Proto	5C907
	12 Pt. ½" Dr 12 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm, ½" Dr 12 Pt. Deep 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	(1) ½" Drive Pear Head Ratchet 10½", (2) Drive Extensions 5", 10", (1) Breaker Bar 15¾", (1) Blow Molded Case	Proto	5NAX5
37	**6 Pt Std**: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32mm	(1) ½" Drive Flex Head Ratchet 10 29/32", (1) Universal Joint, (1) Wobble Extension 2", (2) Flexible Locking Drive Extensions with Free-Turning Sleeve 5", 10", (1) Sliding T-Handle 10", (1) 3/16" Bit Adaptor With Quick-Release Chuck, (1) Ratchet, (17) Sockets, (13) Bits: 5, 6, 8, 10mm Hex, #3 Phillips, #3 Pozidrive, T20, T25, T30, T40, T45, T50, T55 Torx, Metal Case	Wera	5EPP1
54	**12 Pt.** ½" Dr 12 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 36mm, ½" Dr 12 Pt. Deep 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm	(2) ½" Drive Round Head Ratchets 10 5/16", 15", (3) Drive Extensions 3", 5", 10", (1) Breaker Bar 16", (1) Speed Handle 18 1/16", (1) Sliding T-Handle 10 13/16", (1) Universal Joint, (1) Tool Box	SK	20K357
	12 Pt. ½" Dr 12 Pt. Std. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 36mm, ½" Dr 12 Pt. Deep 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26mm	(2) ½" Drive Pear Head Ratchets 10", 16", (3) Drive Extensions 2½", 5", 10", (1) Breaker Bar 18 5/8", (1) Universal Joint, (1) Sliding T-Handle 18 1/16", (1) Universal Joint, (1) Tool Box	Proto	5C905
SAE, Metric				
47	**6 Pt.** ½" Dr 6 Pt. Std. ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm, ½" Dr 6 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) ½" Drive Round Head Ratchet 10 5/16", (2) Drive Extensions 2", 5", (1) Blow Molded Case	SK	12D207
	12 Pt. ½" Dr 12 Pt. Std. ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 1", 1 1/16", 1 1/8", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm, ½" Dr 12 Pt. Deep ½", 9/16", 5/8", 11/16", ¾", 13/16", ⅞", 15/16", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	(1) ½" Drive Round Head Ratchet 10 5/16", (2) Drive Extensions 2", 5", (1) Blow Molded Case	SK	12D205

No. of Pieces	Type	Includes	Brand	Mfr. Model	Item No.
Socket Extension Sets					
3	Standard	5, 10, 20" Extensions, Plastic Tray	SK	4114	12D283
5	Standard	2, 3, 5, 10, 15" Extensions, Plastic Tray	SK	40165	12D284
5	Wobble	2, 3, 5, 10, 15" Extensions, Plastic Tray	SK	40208	12D285



SAE Set w/ out Ratchet No. 20K351



SAE Set w/ Ratchet No. 4YP81



SAE Set w/Ratchet No. 6A540

Chrome ¾"-Drive Socket Sets

SK® PROTO® WESTWARD®

No. of Pieces	Sockets Included	Includes	Brand	Mfr. Model	Item No.
w/out Ratchet					
SAE					
25	**12 Pt. Std.**: ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 9⁄16", 1 5⁄8", 1 11⁄16", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2", 2 1⁄16", 2 1⁄8", 2 3⁄16", 2 1⁄4", 2 3⁄8"	—	SK	94725	**20K351**
w/Ratchet					
11	**12 Pt. Std.**: 15⁄16", 1 1⁄16", 1 1⁄8", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 5⁄8"	¾" Drive Round Head Ratchet 18", Drive Extension 8", Tool Box	SK	4711B	**20K445**
13	⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2"	¾" Drive Pear Head Ratchet 20", Drive Extension 8", Metal Tool Box	Proto	J55100	**5C908**
20	⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 5⁄8", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2"	(1) ¾" Drive Pear Head Ratchet 20", (2) Drive Extensions 8", 16", (1) Breaker Bar 20", (1) Sliding T-Handle 20", (1) Metal Tool Box	Proto	J55102	**1AF26**
21	⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 5⁄8", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2	(1) ¾" Drive Quick-Release Ratchet 20", (3) Drive Extensions 4", 8", 16", Sliding T-Handle 18", (1) Blow Molded Case	Westward	—	**4YP81**
25	**12 Pt. Std.**: ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 9⁄16", 1 5⁄8", 1 11⁄16", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2", 2 1⁄8", 2 1⁄4"	(1) ¾" Drive Round Head Ratchet 18", (3) Drive Extensions 3", 8", 16", (1) Sliding T-Handle 18", (1) Blow Molded Case	SK	4725	**12D206**
29	⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 9⁄16", 1 5⁄8", 1 11⁄16", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2", 2 1⁄8", 2 3⁄16", 2 1⁄4", 2 3⁄8"	(1) ¾" Drive Pear Head Ratchet 20", (2) Drive Extensions 4", 8", 16", (1) Breaker Bar 20", (1) Universal Joint, (1) Sliding T-Handle 20", (1) Metal Tool Box	Proto	J55104	**6A540**
Metric					
19	24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 36, 38, 41, 42, 46mm	(1) ¾" Drive Pear Head Ratchet 20", (2) Drive Extensions 8", 16", (1) Breaker Bar 20", (1) Metal Tool Box	Proto	J55200	**5C910**
21	19, 21, 22, 23, 24, 26, 27, 29, 30, 32, 35, 36, 38, 41, 46, 50mm	(1) ¾" Drive Quick-Release Ratchet 20", (3) Drive Extensions 4", 8", 16", Sliding T-Handle 18", (1) Blow Molded Case	Westward	—	**4YP83**
28	21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 35, 36, 38, 41, 42, 46, 50, 54, 55, 58, 60mm	(1) ¾" Drive Pear Head Ratchet 20", (2) Drive Extensions 4", 8", (1) Breaker Bar 20", (1) Universal Joint, (1) Sliding T-Handle 20", (1) Metal Tool Box	Proto	J55202	**1AF29**



No. 5C911



No. 5C913

Chrome 1"-Drive Socket Sets

WESTWARD® PROTO®

No. of Pieces	Sockets Included	Includes	Brand	Mfr. Model	Item No.
w/Ratchet					
SAE					
17	**12 Pt. Std.**: 1 7⁄16", 1 1⁄2", 1 5⁄8", 1 11⁄16", 1 3⁄4", 1 7⁄8", 2", 2 3⁄16", 2 1⁄4", 2 3⁄8", 2 1⁄2"	(1) 1" Drive Pear Ratchet Head, (1) Universal Handle 22", (2) Drive Extensions 6", 16", (1) Sliding T Drive Plug, (1) Metal Case	Westward	—	**42W522**
	1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 5⁄8", 1 11⁄16", 1 3⁄4", 1 13⁄16", 1 7⁄8", 2"	1" Drive Pear Head Ratchet 26", Drive Extension 8", Breaker Bar 27", Metal Tool Box	Proto	J57100	**5C911**
22	**12 Pt Std**: 1 1⁄2", 1 5⁄8", 1 13⁄16", 1 7⁄8", 2", 2 3⁄16", 2 1⁄4", 2 3⁄8", 2 1⁄2", 2 5⁄8", 2 3⁄4", 2 15⁄16", 3", 3 1⁄8", 3 1⁄2"	(1) 1" Drive Pear Head Ratchet 26", (2) Drive Extensions 8", 17", (1) Breaker Bar 27", (1) Sliding T-Handle 28½", (1) Metal Tool Box	Proto	J57102	**5C912**
29	1 1⁄16", 1 1⁄8", 1 3⁄16", 1 1⁄4", 1 5⁄16", 1 3⁄8", 1 7⁄16", 1 1⁄2", 1 5⁄8", 1 13⁄16", 1 7⁄8", 2", 2 3⁄16", 2 1⁄4", 2 3⁄8", 2 1⁄2", 2 5⁄8", 2 3⁄4", 2 15⁄16", 3", 3 1⁄8", 3 1⁄2"	(1) 1" Drive Pear Head Ratchet 26", (2) Drive Extensions 8", 17", (1) Breaker Bar 27", (1) Sliding T-Handle 28½", (1) Metal Tool Box	Proto	J57104	**5C913**

WESTWARD S-K® PROTO®

Hex and Torx® Bit Socket Sets

Bits are machined pressed into the socket for maximum strength.

Hex Metric Set
No. 4JV94





Hex SAE Set
No. 20K467

No. of Pieces	Drive Size	Sockets Included	Includes	Brand	Mfr. Model	Item No.
Ball Hex - Metric						
Long Ball End						
8	3/8"	3, 4, 5, 6, 7, 8, 9, 10mm	54TM67, 54TM68, 54TM69, 54TM70, 54TM71, 54TM72, 54TM73, 54TM74	Westward	54TM66	**54TM66**
	3/8"	3, 4, 5, 6, 7, 8, 9, 10mm	Socket Rail	SK	19748	**20K472**
Hex - Metric						
6	1/4"	2, 2.5, 3, 4, 5, 6mm	Socket Rail	SK	19732	**20K437**
	1/4"	2, 2.5, 3, 4, 5, 6mm	6 1/4" Socket Bar, 1/4" Socket Clip	Proto	J4770-6	**3R779**
	1/2"	6, 8, 10, 12, 14, 17mm	9" Socket Bar, 1/2" Socket Clip	Proto	J5441-SM	**3R749**
7	1/2"	6, 8, 10, 12, 14, 17, 19mm	—	Westward	54TM92	**54TM92**
	3/8"	4, 5, 6, 7, 8, 9, 10mm	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4990-SMA	**4JW06**
	1/2"	6, 8, 10, 12, 14, 17, 19mm	Blow Molded Case	SK	41427	**20K360**
8	3/8"	5, 6, 7, 8, 9, 10, 11, 12mm	Socket Rail	SK	19708	**20K471**
9	3/8", 1/2"	3/8" Drive: 4, 5, 6, 7, 8, 10mm. 1/2" Drive: 12, 14, 17mm	Blow Molded Case	SK	19734	**12D295**
10	3/8", 1/2"	3/8" Drive: 4, 5, 6, 7, 8, 9, 10mm. 1/2" Drive: 12, 14, 17mm	Blow Molded Case	Proto	J4900MA	**4JV94**
	1/2"	6, 8, 10, 12, 13, 14, 15, 17, 18, 19mm	13" Socket Bar, 1/2" Socket Clip	Proto	J5441-MA	**4JW37**
12	3/8"	2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12mm	Socket Rail	SK	19706	**20K470**
15	3/8"	2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12mm	—	Westward	54TM33	**54TM33**
Long						
5	1/2"	8, 10, 12, 14, 17mm	Socket Rail	SK	41455	**20K403**
6	3/8"	4, 5, 6, 7, 8, 10mm	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4990-SMXL	**1AF37**
	3/8"	4, 5, 6, 7, 8, 10mm	Socket Rail	SK	19726	**20K469**
Long Ball End						
6	3/8"	4, 5, 6, 7, 8, 10mm	—	Westward	54TM34	**54TM34**
Short						
7	3/8"	4, 5, 6, 7, 8, 9, 10mm	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4990-MST	**4JW05**
Hex - SAE						
7	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	—	Westward	54TM41	**54TM41**
	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Socket Rail	SK	19723	**12D296**
	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4900-7C	**1AF33**
	1/2"	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	—	SK	41227	**20K401**
	1/2"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	9" Socket Bar, 1/2" Socket Clip	Proto	J5441-7	**3R748**
8	1/2"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	—	Westward	54TM75	**54TM75**
9	3/8", 1/2"	3/8" Drive 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"; 1/2" Drive 1/2", 9/16", 5/8"	Blow Molded Case	SK	19733	**12D294**
10	1/4"	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	Socket Rail	SK	19731	**20K436**
	3/8", 1/2"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8"	Blow Molded Case	Proto	J4900A	**1AF35**
11	1/4"	1/16", 5/64", 3/32", 7/64", 5/32", 3/16", 1/8", 9/64", 7/32", 1/4", 5/16"	6 1/4" Socket Bar, 1/4" Socket Clip	Proto	J4770-11	**3R745**
12	3/8"	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	—	Westward	54TM25	**54TM25**
	3/8"	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Socket Rail	SK	19722	**20K467**
Long						
5	1/2"	5/16", 3/8", 1/2", 9/16", 5/8"	Socket Rail	SK	41255	**20K402**
6	1/2"	1/4", 5/16", 3/8", 1/2", 9/16", 5/8"	9" Socket Bar, 1/2" Socket Clip	Proto	J5441-6XL	**3R747**
7	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4990-7XL	**1AF34**
	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Socket Rail	SK	19728	**20K468**
Long Ball End						
6	3/8"	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	—	Westward	54TM26	**54TM26**
7	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16"	—	Westward	54TM49	**54TM49**
	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4900BD	**1Q756**
	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Socket Rail	SK	19751	**20K840**
Pipe Plug						
8	1/2"	1/2" Drive: 1/4", 9/32", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	Socket Rail	SK	19798	**42W712**
11	3/8"	Male 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", Female 1/4", 9/32", 5/16", 11/32", 3/8"	Socket Rail	SK	19781	**42W711**
Short						
7	3/8"	1/4", 1/8", 3/16", 3/8", 5/16", 5/32", 7/32"	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J4990-7ST	**4JW01**
Hex - SAE, Metric						
13	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 4, 5, 6, 7, 8, 10mm	—	Westward	54TL55	**54TL55**
Long Ball End						
13	3/8"	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 4, 5, 6, 7, 8, 10mm	Socket Clips and Rail	Proto	J4902A	**33HE17**
Phillips, Pozidriv®, Slotted - SAE, Metric						
Screwdriver						
7	3/8"	#4, # 5, #6 Slotted, #1, #2, #3 Phillips, #2 Pozidriv®	Socket Rail	SK	19737	**42W708**
Tamper Resistant Hex - SAE						
Tamper Proof Hex						
9	3/8"	9/64", 5/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	Socket Rail	SK	19749	**20K482**
Torx®						
6	1/4"	T10, T15, T20, T25, T27, T30	6 1/4" Socket Bar, 1/4" Socket Clip	Proto	J4739C	**5C625**
	3/8"	T15, T20, T25, T27, T30, T40	6 1/4" Socket Bar, 3/8" Socket Clip	Proto	J5238C	**5C627**
8	3/8"	T15, T20, T25, T27, T30, T40, T45, T50	9" Socket Bar, 3/8" Socket Clip	Proto	J5239C	**5C626**
13	1/4", 3/8", 1/2"	1/4" Drive: T8, T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T47, T50, T55. 1/2" Drive: T60	Socket Rail	SK	84213	**20K488**
Long Ball End						
3	3/8"	T40, T45, T50	Pouch	SK	84223	**20K481**
10	3/8", 1/4"	3/8" Drive: T30, T40, T45, T50, 1/4" Drive: T8, T10, T15, T20, T25, T27	Socket Rail	SK	84220	**20K423**
Torx Plus®						
9	3/8", 1/4"	1/4" Drive: T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T50	Socket Rail	SK	84229	**20K362**
12	1/4", 3/8", 1/2"	1/4" Drive: T8, T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T50, T55. 1/2" Drive: T60	Socket Rail	SK	84232	**20K348**
Torx® - SAE						
10	3/8", 1/4"	1/4" Drive: T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T50, T55	Socket Rail	SK	84209	**20K422**
Female Torx®						
6	1/4"	E4, E5, E6, E7, E8, E10	Socket Rail	SK	44950	**42W714**
10	1/4", 3/8", 1/2"	1/4" Dr 6 Pt. Torx E4, E5, E6, E7, E8. 3/8" Dr 6 Pt. Torx E10, E12, E14, E16. 1/2" Dr 6 Pt. Torx E18	Socket Rail	SK	19760	**42W709**
13	1/4", 3/8", 1/2"	1/4" Dr 6 Pt. Torx E4, E5, E6, E7, E8. 3/8" Dr 6 Pt. Torx E10, E12, E14, E16. 1/2" Dr 6 Pt. Torx E18, E20, E22, E24	Socket Rail	SK	19761	**42W710**
Tamper Proof Torx®						
8	1/4"	T7, T8, T10, T15, T20, T25, T27, T30	—	Westward	54TN16	**54TN16**
	3/8"	T15, T20, T25, T27, T30, T40, T45, T47	—	Westward	54TN33	**54TN33**
9	3/8", 1/4"	1/4" Drive: T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T50	Socket Rail	SK	19769	**20K421**
11	3/8"	1/4", 5/16" Bit Holder Socket. 3/8" Drive: T10, T15, T20, T25, T27, T30, T40, T45, T50 Torx	Plastic Tray	SK	19767	**20K457**
12	3/8", 1/4"	1/4" Drive: T7, T8, T10, T15, T20, T25, T27, T30. 3/8" Drive: T40, T45, T50, T55	Socket Rail	SK	19768	**20K420**
Torx®						
7	1/4"	T8, T10, T15, T20, T25, T27, T30	—	Westward	54TN14	**54TN14**
8	3/8"	T15, T20, T25, T27, T30, T40, T45, T47	—	Westward	54TN32	**54TN32**
Torx®, Tamper-Proof Torx®, Female Torx®						
35	1/4", 3/8", 1/2"	1/4" Dr Torx T8, T10, T15, T20, T25, T27, T30. 1/4" Dr Female Torx E4, E5, E6, E7, E8. 1/4" Dr Tamper-Proof T7, T8, T10, T15, T20, T25, T27, T30. 3/8" Dr Tamper-Proof T40, T45, T47, T50, T55. 3/8" Dr Female Torx E10, E12, E14, E16. 3/8" Dr Tamper-Proof T40, T45, T50, T55. 1/2" Dr Torx T60. 1/2" Dr Female Torx E18	Blow Molded Case	SK	19763	**12D293**
Torx® - SAE, Metric						
Hex, Torx®, Slotted, Phillips, Pozidriv						
33	3/8", 1/4"	1/4" Drive: T10, T15, T20, T25, T27, T30 Torx, 1/4", 9/32", 5/16" Slotted, #1, #2, Phillips. 3/8" Drive: T40, T45, T50, T55 Torx, 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 2, 2.5, 3, 4, 5, 6, 7, 8, 10mm Hex, #4, #5, #6 Slotted, #1, #2, #3 Phillips, #2 Posidrive	Blow Molded Case	SK	89039	**20K419**


No. 38UR78


No. 12D245


No. 54TL95


No. 53YR19

PROTO® WESTWARD® SK® Wera BE A TOOL REBEL

¼"-Drive Ratchets, Sockets, and Accessories

Mechanic's tools are industrial-grade for heavy-duty applications and production use.
Sockets are professional-quality chrome vanadium and fully polished.

Description	Overall Length	Brand	Item No.
Ratchets			
Pear Head			
4° Min. Arc Swing, Black Oxide	5 15/64"	Proto	**53GL90**
4° Min. Arc Swing, Full Polish	5 15/64"	Proto	**53GL89**
	9"	Proto	**53GL91**
4.2° Min. Arc Swing, Full Polish	5⅛"	Westward	**440G11**
5° Min. Arc Swing, Full Polish	7¼"	Westward	**440G10**
6° Min. Arc Swing, Chrome	6¼"	SK	**12D244**
8° Min. Arc Swing, Full Polish, Aerospace Certified	5 11/16"	Proto	**426G35**
	5 45/64"	Proto	**426G34**
	6 11/16"	Proto	**426G33**
9.5° Min. Arc Swing, Satin	5½"	Wera	**38UR78**
15° Min. Arc Swing, Black Oxide	5"	Proto	**5C603**
15° Min. Arc Swing, Chrome	5"	Proto	**4LV06**
15° Min. Arc Swing, Full Polish	5"	Proto	**426G32**
Pear Head, Flexible			
4° Min. Arc Swing, Full Polish, Flexible Head	9"	Proto	**53GL92**
4.2° Min. Arc Swing, Full Polish	5"	Westward	**53YV76**
Pear Head, Quick Release			
4.29° Min. Arc Swing, Chrome	6¾"	Westward	**54RY23**
Pear Head, Sealed			
8° Min. Arc Swing, Black Oxide	5¾"	Proto	**5ME83**
Round, Flexible Head			
5° Min. Arc Swing, Chrome	6½"	Proto	**2CEG1**
Round, Small Head			
5° Min. Arc Swing, Black Oxide	4½"	Proto	**2CEF9**
Round Head			
5° Min. Arc Swing, Black Oxide	4½"	Proto	**19C364**
6° Min. Arc Swing, Chrome	4½"	SK	**12D242**
	6½"	SK	**12D243**
Ratchets, Specialty			
Breaker Bar, ¼", Full Polish, Aerospace Certified	5¾"	Proto	**426G25**
Breaker Bar, Chrome	5½"	SK	**12D245**
Sliding T-Handle, Chrome	4½"	Proto	**1AF44**
Socket Accessories			
Adapter, ¼" F x ¼ M, Locking, Black Oxide	2 5/16"	Proto	**35GM73**
Drive Adapter, ¼" F x ⅜" M, Full Polish	1"	Westward	**54PR16**
Magnetic Bit Driver, Full Polish	6 13/16"	Westward	**53YV62**
Socket Adapter Set, ¼", ⅜", ½", ¾", Chrome	—	SK	**12D247**

Description	Overall Length	Brand	Item No.
Socket Adapter Set, ¼", ⅜", ½", Chrome	—	SK	**12D255**
Socket Adapter Set, ¼", ⅜", ½", Full Polish	1½"	Westward	**54PR15**
Socket Adapter Set, ¼", Chrome	2", 4", 6"	SK	**42W713**
Socket Adapter, ¼", Full Polish	1"	Proto	**426H19**
Socket Adapter, ⅜", Chrome	1 5/16"	SK	**12P878**
Socket Driver, ¼", Full Polish Chrome	6"	Proto	**426J24**
Socket Storage Bar w/16 Clips	17"	Proto	**3R627**
Universal Joint Set, ¼", ⅜", ½", Full Polish	2 7/16"	Westward	**54PR12**
Universal Joint, ¼", Full Polish	1 11/32"	Proto	**426J25**
Universal Joint, Full Polish	1⅜"	Westward	**54PR13**
Socket Extensions			
Chrome	10"	Westward	**54PP96**
	14 3/32"	Proto	**19C383**
Chrome, Locking	10"	Proto	**19C382**
Flexible Extension, Chrome	6¼"	Proto	**1AF50**
Flexible Socket Driver, Chrome	6¾"	Proto	**1AF55**
Full Polish	3"	Westward	**53YV66**
	6"	Westward	**53YV67**
Locking Extension, Chrome	2"	Proto	**5HL98**
	6"	Proto	**5HL99**
Socket Adapter, ⅜", Chrome	2"	Proto	**4CK49**
Socket Extension, ¼", Full Polish	3"	Proto	**426G53**
	10"	Proto	**426G56**
Socket Extension, ¼", Full Polish, Aerospace Certified	2"	Proto	**426G51**
	6"	Proto	**426G54**
	14 3/32"	Proto	**426G58**
Wobble Socket Extension, ¼", Full Polish	2"	Proto	**426G52**
	4"	Proto	**426G59**
	6"	Proto	**426G55**
Wobble Socket Extension, Chrome	3"	Proto	**19C384**
	6"	Westward	**54PR04**
	10"	Westward	**54PR05**
Wobble Socket Extension, Full Polish	3"	Westward	**53YV68**
Socket Extension Sets			
3 pc. Chrome	3", 6", 10"	Westward	**54PP95**
3 pc. Wobble Socket Extension Set, Chrome	3",6",10"	Westward	**54PR03**
6 pc. Chrome with Plastic Tray	2", 3", 6", 8", 10", 14"	SK	**12D257**
6 pc. Locking, Chrome	2", 5", 6", 10", 12"	Proto	**6XW19**

Tip Size	Overall Length	Brand	Item No.
Hex and Torx® Bits			
Ball Hex, Standard Socket Depth, 6-Point			
⅛"	1⅞"	Westward	**54TM42**
5/32"	1⅞"	Westward	**54TM43**
3/16"	1⅞"	Westward	**54TM44**
3mm	1 13/16"	Westward	**54TM58**
5mm	1 13/16"	Westward	**54TM60**
6mm	1 13/16"	Westward	**54TM61**
Hex, Extra Long Socket Depth, 6-Point			
⅛"	4¾"	Westward	**54TL95**
5/32"	4¾"	Westward	**54TL97**
3/16"	4¾"	Westward	**54TL98**
7/32"	4¾"	Westward	**54TL99**
¼"	4¾"	Westward	**54TM01**
5/16"	4¾"	Westward	**54TM02**
4mm	4¾"	Westward	**54TM20**
Hex, Standard Socket Depth, 0-Point			
1/16"	1⅞"	Proto	**426H35**
5/64"	1⅞"	Proto	**426H51**
3/32"	1⅞"	Proto	**426H44**
7/64"	1⅞"	Proto	**426H56**
⅛"	1⅞"	Proto	**426H38**
9/64"	1⅞"	Proto	**426H58**
5/32"	1⅞"	Proto	**426H49**
3/16"	1⅞"	Proto	**426H42**
7/32"	1⅞"	Proto	**426H54**
¼"	1⅞"	Proto	**426H36**
5/16"	1⅞"	Proto	**426H48**
2.5mm	1⅞"	Proto	**426H40**
2mm	1⅞"	Proto	**426H41**
3mm	1⅞"	Proto	**426H46**
4mm	1⅞"	Proto	**426H47**
5mm	1⅞"	Proto	**426H52**
6mm	1⅞"	Proto	**426H53**
Hex, Standard Socket Depth, 6-Point			
3/16"	1½"	Westward	**54TL87**
7/32"	1½"	Westward	**54TL88**
¼"	1½"	Westward	**54TL89**
5/16"	1½"	Westward	**54TL90**
Tamper Resistant Torx®, Standard Socket Depth, 6-Point			
T10	1½"	Westward	**54TN19**
T15	1½"	Westward	**54TN20**
T20	1½"	Westward	**54TN21**
T25	1½"	Westward	**54TN22**
T8	1½"	Westward	**54TN18**
Torx®, Standard Socket Depth, 0-Point			
T10	1½"	Proto	**426H26**
T15	1½"	Proto	**426H27**
T20	1½"	Proto	**426H28**
T25	1½"	Proto	**426H29**
T27	1½"	Proto	**426H30**
T30	1¾"	Proto	**426H31**
Torx®, Standard Socket Depth, 6-Point			
T10	1½"	Westward	**54TN08**
T15	1½"	Westward	**54TN09**
T20	1½"	Westward	**54TN10**
T25	1½"	Westward	**54TN11**
T27	1½"	Westward	**54TN12**
T30	1½"	Westward	**54TN13**
T40	1⅞"	Westward	**53YV89**
T8	1½"	Westward	**54TN15**

Socket Sizes	Overall Length	Item No.
6-Point, Standard		
WESTWARD		
5/32"	1"	**53YP74**
3/16"	1"	**53YP75**
7/32"	1"	**53YP76**
¼"	1"	**53YP77**
9/32"	1"	**53YP78**
5/16"	1"	**53YP79**
11/32"	1"	**53YP80**
⅜"	1"	**53YP81**
7/16"	1"	**53YP82**
½"	1"	**53YP83**
3-1/2mm	1"	**53YP84**
4mm	1"	**53YP85**
4.5mm	1"	**53YP86**
5mm	1"	**53YP87**
5.5mm	1"	**53YP88**
6mm	1"	**53YP89**
7mm	1"	**53YP90**
8mm	1"	**53YP91**
9mm	1"	**53YP92**
10mm	1"	**53YP93**
11mm	1"	**53YP94**
12mm	1"	**53YP95**
6-Point, Deep		
WESTWARD		
5/32"	2"	**53YR19**
3/16"	2"	**53YR20**
7/32"	2"	**53YR21**
¼"	2"	**53YR22**
9/32"	2"	**53YR23**
5/16"	2"	**53YR24**
11/32"	2"	**53YR25**
⅜"	2"	**53YR26**
7/16"	2"	**53YR27**
½"	2"	**53YR28**
3-1/2mm	2"	**53YR29**

Socket Sizes	Overall Length	Item No.
4mm	2"	**53YR30**
4.5mm	2"	**53YR31**
5mm	2"	**53YR32**
5.5mm	2"	**53YR33**
6mm	2"	**53YR34**
7mm	2"	**53YR35**
8mm	2"	**53YR36**
9mm	2"	**53YR37**
10mm	2"	**53YR38**
11mm	2"	**53YR39**
12mm	2"	**53YR40**
PROTO		
3/16"	2"	**429M13**
7/32"	2"	**429M21**
¼"	2"	**429M29**
9/32"	2"	**429M38**
5/16"	2"	**429M46**
11/32"	2"	**429M55**
⅜"	2"	**429M63**
7/16"	2"	**429M76**
½"	2"	**429M85**
9/16"	2"	**429M90**
4mm	1 63/64"	**429M01**
5.5mm	1 63/64"	**429M04**
5mm	1 63/64"	**429M08**
6mm	1 63/64"	**429M14**
7mm	1 63/64"	**429M22**
8mm	1 63/64"	**429M30**
9mm	1 63/64"	**429M39**
10mm	1 63/64"	**429M47**
11mm	1 63/64"	**429M56**
12mm	1 63/64"	**429M64**
13mm	1 63/64"	**429M71**
14mm	1 63/64"	**429M77**
15mm	1 11/32"	**19C435**

Socket Sizes	Overall Length	Item No.
6-Point, Standard		
PROTO		
⅛"	7/8"	**429L98**
5/32"	7/8"	**429M03**
3/16"	7/8"	**429M12**
7/32"	7/8"	**429M20**
¼"	7/8"	**429M28**
9/32"	7/8"	**429M37**
5/16"	7/8"	**429M45**
11/32"	7/8"	**429M54**
⅜"	7/8"	**429M62**
7/16"	7/8"	**429M75**
½"	7/8"	**429M84**
9/16"	7/8"	**429M89**
5/8"	7/8"	**429M93**
4.5mm	7/8"	**429L99**
4mm	7/8"	**429M02**
5.5mm	7/8"	**429M06**
5mm	7/8"	**429M10**
6mm	7/8"	**429M17**
7mm	7/8"	**429M25**
8mm	7/8"	**429M33**
9mm	7/8"	**429M42**
10mm	7/8"	**429M50**
11mm	7/8"	**429M59**
12mm	7/8"	**429M67**
13mm	7/8"	**429M73**
14mm	7/8"	**429M80**
15mm	7/8"	**429M83**
16mm	7/8"	**429M87**
12-Point, Standard		
PROTO		
5/32"	7/8"	**6RCA7**
3/16"	7/8"	**429M18**
3/16"	1 5/16"	**1TEJ2**
7/32"	7/8"	**429M26**
7/32"	1 5/16"	**1TEJ3**

Socket Sizes	Overall Length	Item No.
7/32"	1¼"	**429M94**
¼"	7/8"	**429M35**
¼"	1 5/16"	**1TEJ4**
¼"	1¼"	**429M96**
9/32"	7/8"	**429M43**
9/32"	1 5/16"	**1TEJ5**
9/32"	1¼"	**429N06**
5/16"	7/8"	**429M52**
5/16"	1 5/16"	**1TEJ6**
5/16"	1¼"	**429M98**
11/32"	7/8"	**429M60**
11/32"	1¼"	**429N07**
⅜"	7/8"	**429M69**
⅜"	1¼"	**429N01**
7/16"	7/8"	**429M81**
7/16"	1¼"	**429N03**
½"	7/8"	**429M88**
½"	1¼"	**429N04**
9/16"	7/8"	**429M92**
9/16"	1 21/64"	**429N05**
4mm	7/8"	**6RCD8**
4.5mm	7/8"	**6RCD9**
5.5mm	7/8"	**429M07**
5mm	7/8"	**429M11**
6mm	7/8"	**429M19**
7mm	7/8"	**429M27**
8mm	7/8"	**429M36**
9mm	7/8"	**429M44**
10mm	7/8"	**429M53**
11mm	7/8"	**429M61**
12mm	7/8"	**429M70**
13mm	7/8"	**429M74**
14mm	7/8"	**429M82**
WESTWARD		
5/32"	1"	**53YP96**
3/16"	1"	**53YP97**
7/32"	1"	**53YP98**

Socket Sizes	Overall Length	Item No.
¼"	1"	**53YP99**
9/32"	1"	**53YR01**
5/16"	1"	**53YR02**
11/32"	1"	**53YR03**
⅜"	1"	**53YR04**
7/16"	1"	**53YR05**
½"	1"	**53YR06**
3-1/2mm	1"	**53YR07**
4mm	1"	**53YR08**
4.5mm	1"	**53YR09**
5mm	1"	**53YR10**
5.5mm	1"	**53YR11**
6mm	1"	**53YR12**
7mm	1"	**53YR13**
8mm	1"	**53YR14**
9mm	1"	**53YR15**
10mm	1"	**53YR16**
11mm	1"	**53YR17**
12mm	1"	**53YR18**
12-Point, Deep		
PROTO		
15mm	1 63/64"	**6RCG2**
WESTWARD		
5/32"	2"	**53YR41**
3/16"	2"	**53YR42**
7/32"	2"	**53YR43**
¼"	2"	**53YR44**
9/32"	2"	**53YR45**
5/16"	2"	**53YR46**
11/32"	2"	**53YR47**
⅜"	2"	**53YR48**
7/16"	2"	**53YR49**
½"	2"	**53YR50**
3-1/2mm	2"	**53YR51**
4mm	2"	**53YR52**
4.5mm	2"	**53YR53**

Socket Sizes	Overall Length	Item No.
5mm	2"	**53YR54**
5.5mm	2"	**53YR55**
6mm	2"	**53YR56**
7mm	2"	**53YR57**
8mm	2"	**53YR58**
9mm	2"	**53YR59**
10mm	2"	**53YR60**
11mm	2"	**53YR61**
12mm	2"	**53YR62**
12-Point, Deep Aerospace Certified		
PROTO		
3/16"	2"	**429M15**
7/32"	2"	**429M23**
¼"	2"	**429M31**
9/32"	2"	**429M40**
5/16"	2"	**429M48**
11/32"	2"	**429M57**
⅜"	2"	**429M65**
7/16"	2"	**429M78**
½"	2"	**429M86**
9/16"	2"	**429M91**
5mm	1 63/64"	**429M09**
5.5mm	1 63/64"	**429M05**
6mm	1 63/64"	**429M16**
7mm	1 63/64"	**429M24**
8mm	1 63/64"	**429M32**
9mm	1 63/64"	**429M41**
10mm	1 63/64"	**429M49**
11mm	1 63/64"	**429M58**
12mm	1 63/64"	**429M66**
13mm	1 63/64"	**429M72**
14mm	1 63/64"	**429M79**

Find even **MORE** on **Grainger.com®**



No. 5PZL9



No. 33M360



No. 54TN76



No. 53YT28

PROTO® ★ WESTWARD SK® Wera STANLEY

3/8"-Drive Ratchets, Sockets, and Accessories

Mechanic's tools are industrial-grade for heavy-duty applications and production use.

Description	Overall Length	Brand	Item No.
Specialty Sockets			
Aerospace Certified, Spark Plug Socket, Polished	2 1/2"	Proto	429T41
	2 3/4"	Proto	429T42
Spark Plug Socket, 5/8" Output Drive Size Deep Socket Depth	2 1/2"	Westward	54PR23
Spark Plug Socket, 13/16" Output Drive Size Deep Socket Depth	2 11/16"	Westward	54PR24
Spark Plug Socket, 16mm Output Drive Size Deep Socket Depth	2 9/16"	Westward	54PR25
Spark Plug Socket, 21mm Output Drive Size Deep Socket Depth	2 11/16"	Westward	54PR26
Socket Accessories			
3-pc. Locking, Black Oxide	3, 6, and 12"	Proto	5PZL9
Aerospace Certified, Breaker Bar, Full Polish	8 1/2"	Proto	426G26
Aerospace Certified, Socket Extension, Full Polish	1 3/4"	Proto	426G60
	3"	Proto	426G61
	6"	Proto	426G62
	8"	Proto	426G65
	12"	Proto	426G66
	17 9/16"	Proto	426G68
Aerospace Certified, Universal Joint, Full Polish	2"	Proto	426J27
Bit Holder, 6 Number of Points, 3/8"x 1/4", Chrome	1"	SK	20K664
Bit Holder, 6 Number of Points, 3/8"x 5/16", Chrome	1"	SK	20K665
Drag Link Socket Bit, 11/16" Tip Size	1 1/8"	Proto	1AH92
Flexible Socket Spinner, Chrome	9"	Proto	1AH86
Flex Socket, 12-Point, 10mm, Chrome	1 3/4"	Proto	19C471
Flex Socket, 12-Point, 11mm, Chrome	1 3/4"	Proto	19C473
Flex Socket, 12-Point, 12mm, Chrome	1 3/4"	Proto	19C475
Flex Socket, 12-Point, 13mm, Chrome	1 3/4"	Proto	19C479
Flex Socket, 12-Point, 14mm, Chrome	1 7/8"	Proto	19C481
Flex Socket, 12-Point, 15mm, Chrome	1 7/8"	Proto	19C484
Flex Socket, 12-Point, 9mm, Chrome	1 3/4"	Proto	19C502
Flex Socket, 6-Point, 1/2", Chrome	1 3/4"	Proto	4TDG4
Flex Socket, 6-Point, 3/4", Chrome	1 7/8"	Proto	4TDG8
Flex Socket, 6-Point, 3/8", Chrome	1 3/4"	Proto	4TDG2
Flex Socket, 6-Point, 5/8", Chrome	1 7/8"	Proto	4TDG6
Flex Socket, 6-Point, 7/16", Chrome	1 3/4"	Proto	4TDG3
Flex Socket, 6-Point, 9/16", Chrome	1 7/8"	Proto	4TDG5
Flex Socket, 6-Point, 11/16", Chrome	1 7/8"	Proto	4TDG7
Flex Socket, 6-Point, 10mm, Chrome	1 49/64"	Proto	19C472
Flex Socket, 6-Point, 11mm, Chrome	1 49/64"	Proto	19C474
Flex Socket, 6-Point, 12mm, Chrome	1 49/64"	Proto	19C476
Flex Socket, 6-Point, 13mm, Chrome	1 49/64"	Proto	19C480
Flex Socket, 6-Point, 14mm, Chrome	1 7/8"	Proto	19C482
Flex Socket, 6-Point, 15mm, Chrome	1 7/8"	Proto	19C485
Flex Socket, 6-Point, 16mm, Chrome	1 57/64"	Proto	19C487
Flex Socket, 6-Point, 17mm, Chrome	1 57/64"	Proto	19C489

Description	Overall Length	Brand	Item No.
Flex Socket Extension, Black Oxide	8"	Proto	1AH79
Ratchet Adapter Head, 3/8", Chrome	1 5/16"	Proto	1AH87
Socket Adapter Head, 1/2", Chrome,	1 5/16"	SK	12P881
Socket Adapter Head, 1/2", Full Polished,	1 1/2"	Westward	53YV64
Socket Adapter Head, 1/4", Chrome,	1 1/8"	SK	12P877
Socket Adapter Head, 3/8", Chrome,	2"	SK	20K363
Socket Extension, Black Oxide	3"	Proto	5F430
	6"	Proto	5F429
	8"	Proto	5F431
	12"	Proto	5F432
Socket Extension, Chrome	6"	Proto	5HM01
	8"	Proto	19C380
	10"	Westward	54PP98
	12"	Proto	5HM02
	18"	Westward	54PP99
	36"	SK	20K367
Socket Extension, Full Polish	3"	Westward	53YV69
	6"	Westward	53YV70
	10"	Westward	53YV73
Socket Extension Set 4-pc. Chrome	1 3/4", 3", 6", 12"	Proto	31XR42
	3", 6", 10", 18"	Westward	54PP97
Socket Storage Bar w/10 Clips	9"	Proto	3R628
Socket Storage Bar w/16 Clips	17"	Proto	3R629
Torque Adapter, 1/2", Full Polish	2 3/4"	Proto	1Q813
Torque Adapter, 3/4", Full Polish	2 15/16"	Proto	1Q817
Torque Adapter, 3/8", Full Polish	2 11/16"	Proto	1Q811
Torque Adapter, 5/8", Full Polish	2 7/8"	Proto	1Q815
Torque Adapter, 7/16", Full Polish	2 3/4"	Proto	1Q812
Torque Adapter, 7/8", Full Polish	3"	Proto	1Q819
Torque Adapter, 9/16", Full Polish	2 13/16"	Proto	1Q814
Torque Adapter, 11/16", Full Polish	2 15/16"	Proto	1Q816
Universal Joint, Black Oxide	2"	Proto	21GR83
Universal Joint, Full Polish	3/4"	Westward	33M361
Wobble Socket Extension, 1-pc. Chrome	1 3/4"	Proto	1AH80
	3"	Westward	33M362
	6"	Westward	33M363
	8"	Proto	1AH83
	10"	Westward	54PR07
	17 3/16"	Proto	1AH85
	18"	Westward	54PR08
Wobble Socket Extension, 1-pc. Full Polish	3"	Proto	426G64
	6"	Proto	426G63
	12"	Proto	426G67
Wobble Socket Extension Set, 4-pc. Chrome	3",6", 10",18"	Westward	54PR06
Ratchets			
Pear Head			
15° Min. Arc Swing, Black Oxide	7"	Proto	1AH60
	11"	Proto	19C365
15° Min. Arc Swing, Chrome	7"	Proto	5LP82
4.2° Min. Arc Swing, Full Polish	8 3/8"	Westward	53YV77
4.29° Min. Arc Swing, Chrome	9"	Westward	54RY24

Description	Overall Length	Brand	Item No.
4° Min. Arc Swing, Black Oxide	7 25/32"	Proto	53GL84
	12 25/32"	Proto	53GL88
4° Min. Arc Swing, Polish	7 25/32"	Proto	53GL83
	12 25/32"	Proto	53GL86
6° Min. Arc Swing, Chrome	6 1/4"	SK	34NL82
8° Min. Arc Swing, Black Oxide	8 1/2"	Proto	5ME85
	11"	Proto	19C574
9.5° Min. Arc Swing, Satin	8 3/4"	Wera	38UR81
9° Min. Arc Swing, Chrome	5"	SK	12D267
	10 3/4"	SK	12D269
	10 7/8"	SK	12D268
Aerospace Certified, Hand Ratchet, One-Hand Operation, Polish	8 1/2"	Proto	426G39
Aerospace Certified, Hand Ratchet, Polish	8 1/2"	Proto	426G38
	11"	Proto	426G42
Hand Ratchet, 15° Min. Arc Swing, Chrome	7"	Proto	1AH63
Hand Ratchet, Polish	4 3/4"	Westward	440G12
	5"	Proto	426G36
	7"	Proto	426G37
	9 3/8"	Westward	440G14
	11"	Proto	426G41
Quick Release Ratchet, Chrome	8"	STANLEY	38WF36
Pear Head, Flexible			
4° Min. Arc Swing, Polish	7 25/32"	Proto	53GL85
	12 25/32"	Proto	53GL87
Round Head			
4.4° Min. Arc Swing, Black Oxide	7 3/8"	Proto	2CEG2
5° Min. Arc Swing, Black Oxide	7 3/8"	Proto	19C366
6° Min. Arc Swing, Chrome	4 1/2"	SK	12D262
	6 1/2"	SK	12D263
9° Min. Arc Swing, Chrome	4 3/4"	SK	12D264
	7 5/8"	SK	12D260
	10 1/4"	SK	12D261
Round Head, Flexible			
5° Min. Arc Swing, Chrome	8 1/2"	Proto	2CEG3
Ratchet Repair Kits			
Ratchet Repair Kit For No. 1AK63	—	Proto	19C368
Ratchet Repair Kit For No. 24AJ69, 31CL45	—	Proto	40JD35
Ratchet Repair Kit For No. 4LY29, 4YA54, 4LY30, 2MV21, 2MV19, 4LY33, 4LY19, 4MU18, 4YA65	—	Proto	40JD26
Ratchet Repair Kit For No. 5ME54-5ME86, 19C574	—	Proto	19C577
Ratchet, Specialty			
Breaker Bar, Chrome	10"	Westward	33M360
Breaker Bar, Flexible, Black Oxide	8 1/2"	Proto	1AH70
Breaker Bar, Flexible, Chrome	10"	SK	12D266
	12"	Proto	1FX33
	15"	Westward	5TZD9
Drive Adapter, 1/4", Full Polish	1"	Westward	54PR17
Sliding T-Handle, Chrome	8"	Proto	1AH71
Speed Handle, Chrome	16 3/4"	SK	20K388
Spinner Ratchet, Chrome	1 1/2"	Proto	1AH88
Thumbwheel Ratchet, Chrome, 10° Min. Arc Swing	1 1/2"	SK	12D265
	8 1/2"	Westward	440G15

Tip Size	Overall Length	Brand	Item No.
Hex and Torx® Bits			
Ball Hex, Extra Long Socket Depth, 6-Point			
5/16"	4 3/4"	Westward	54TM52
7/32"	4 3/4"	Westward	54TM53
1/4"	4 3/4"	Westward	54TM54
5/16"	4 3/4"	Westward	54TM55
3/8"	4 3/4"	Westward	54TM56
4mm	4 13/16"	Westward	54TM68
5mm	4 13/16"	Westward	54TM69
6mm	4 13/16"	Westward	54TM70
7mm	4 3/4"	Westward	54TM71
8mm	4 3/4"	Westward	54TM72
10mm	4 3/4"	Westward	54TM74
Ball Hex, Standard Socket Depth, 0-Point			
5/16"	6 3/32"	Proto	426H64
Ball Hex, Standard Socket Depth, 6-Point			
7/32"	1 7/8"	Westward	54TM45
1/4"	1 7/8"	Westward	54TM46
5/16"	1 7/8"	Westward	54TM47
3/8"	1 7/8"	Westward	54TM48
7mm	1 13/16"	Westward	54TM62
8mm	1 13/16"	Westward	54TM63
9mm	1 13/16"	Westward	54TM64
10mm	1 13/16"	Westward	54TM65
Hex, Extra Long Socket Depth, 6-Point			
5mm	4 13/16"	Westward	54TM36
6mm	4 13/16"	Westward	54TM37
7mm	4 13/16"	Westward	54TM38
8mm	4 13/16"	Westward	54TM39

Tip Size	Overall Length	Brand	Item No.
10mm	4 13/16"	Westward	54TM40
Hex, Standard Socket Depth, 0-Point			
5/32"	6 3/32"	Proto	426H81
3/16"	2 23/32"	Proto	426H71
3/16"	6 3/32"	Proto	426H72
7/32"	6 3/32"	Proto	426H86
1/4"	6 3/32"	Proto	426H68
5/16"	6 3/32"	Proto	426H79
3/8"	6 3/32"	Proto	426H75
4mm	2 23/32"	Proto	426H76
5mm	2 23/32"	Proto	426H82
6mm	2 23/32"	Proto	426H83
7mm	2 23/32"	Proto	426H87
8mm	2 23/32"	Proto	426H88
10mm	2 23/32"	Proto	426H70
Hex, Standard Socket Depth, 6-Point			
1/16"	1 3/4"	Westward	54TL65
9/64"	1 3/4"	Westward	54TL66
5/32"	1 3/4"	Westward	54TL67
7/64"	1 3/4"	Westward	54TL68
1/8"	1 3/4"	Westward	54TL56
1/8"	2 23/32"	Proto	426H69
1/8"	6 1/8"	Proto	1AL73
5/32"	1 3/4"	Westward	54TL57
5/32"	2 23/32"	Proto	426H80
3/16"	1 3/4"	Westward	53YV79
7/32"	1 3/4"	Westward	53YV80
7/32"	2 23/32"	Proto	426H84
1/4"	1 3/4"	Westward	53YV81

Tip Size	Overall Length	Brand	Item No.
1/4"	2 23/32"	Proto	426H66
5/16"	1 3/4"	Westward	53YV82
5/16"	2 23/32"	Proto	426H77
3/8"	1 13/16"	Westward	53YV83
3/8"	2 23/32"	Proto	426H73
2.5mm	1 3/4"	Westward	54TL71
2mm	1 3/4"	Westward	54TL70
4mm	1 3/4"	Westward	54TL58
4mm	6 3/32"	Proto	1AL86
5mm	1 3/4"	Westward	54TL59
5mm	6 3/32"	Proto	1AL87
6mm	1 3/4"	Westward	54TL60
6mm	6 3/32"	Proto	1AL88
7mm	1 3/4"	Westward	54TL61
7mm	6 3/32"	Proto	1AL89
8mm	1 3/4"	Westward	54TL62
8mm	6 3/32"	Proto	1AL90
9mm	1 3/4"	Westward	54TL76
10mm	1 3/4"	Westward	54TL63
10mm	6 3/32"	Proto	1AL91
11mm	1 3/4"	Westward	54TL77
12mm	1 3/4"	Westward	54TL78
19mm	2 1/4"	Westward	54TM99
Phillips, Standard Socket Depth, 4-Point			
#2	1 31/32"	Proto	426J01
#3	1 31/32"	Proto	426J02
#4	1 31/32"	Proto	426J03
PH4	2 5/8"	Westward	54TN68

Tip Size	Overall Length	Brand	Item No.
Phillips, Standard Socket Depth, 6-Point			
#1	1 13/16"	Westward	53YV92
#2	1 13/16"	Westward	53YV93
Pozidriv®, Standard Socket Depth, 4-Point			
#1	1 13/16"	Westward	54TN69
#2	1 13/16"	Westward	54TN70
#3	1 13/16"	Westward	54TN71
Slotted, Standard Socket Depth, 0-Point			
1/4"	1 13/16"	Proto	426J04
Slotted, Standard Socket Depth, 1-Point			
5/16"	3"	Proto	1AH91
Slotted, Standard Socket Depth, 2-Point			
5/32"	1 3/4"	Westward	54TN75
Slotted, Standard Socket Depth, 6-Point			
3/16"	1 13/16"	Westward	53YV95
1/4"	1 13/16"	Westward	53YV96
Square, Standard Socket Depth, 4-Point			
R2	1 13/16"	Westward	54TN76
R3	1 13/16"	Westward	54TN77
R4	1 13/16"	Westward	54TN78
Tamper Resistant Torx®, Standard Socket Depth, 6-Point			
T27	1 3/4"	Westward	54TN37
T40	1 3/4"	Westward	54TN39
T45	1 3/4"	Westward	54TN40

CONTINUED

CONTINUED

3/8"-Drive Ratchets, Sockets, and Accessories

PROTO · WESTWARD · SK · Wera · STANLEY

Tip Size	Overall Length	Brand	Item No.
Torx®, Shallow Socket Depth, 6-Point			
T20	1 23/32"	Proto	426H92
T40	1 23/32"	Proto	426H96
T45	1 23/32"	Proto	426H97
T50	1 23/32"	Proto	426H98
Torx®, Standard Socket Depth, 0-Point			
T15	1 23/32"	Proto	426H91
T25	1 23/32"	Proto	426H93
T27	1 23/32"	Proto	426H94
T30	1 23/32"	Proto	426H95
T55	1 23/32"	Proto	426H99
Torx®, Standard Socket Depth, 6-Point			
T15	1 13/16"	Westward	53YV84
T20	1 13/16"	Westward	53YV85
T25	1 13/16"	Westward	53YV86
T27	1 7/8"	Westward	53YV87
T30	1 7/8"	Westward	53YV88
T45	1 15/16"	Westward	53YV90
Hex and Torx® Bits, Aerospace Certified			
Torx®, Standard Socket Depth, 0-Point			
T10	1 23/32"	Proto	426H90

Socket Sizes	Overall Length	Finish	Item No.
6-Point, Deep Socket Depth			
Westward			
1/4"	2 1/2"	Full Polished	53YT34
9/32"	2 1/2"	Full Polished	53YT35
5/16"	2 1/2"	Full Polished	53YT36
11/32"	2 1/2"	Full Polished	53YT37
3/8"	2 1/2"	Full Polished	53YT38
7/16"	2 1/2"	Full Polished	53YT39
1/2"	2 1/2"	Full Polished	53YT40
9/16"	2 1/2"	Full Polished	53YT41
5/8"	2 1/2"	Full Polished	53YT42
11/16"	2 1/2"	Full Polished	53YT43
3/4"	2 1/2"	Full Polished	53YT44
13/16"	2 1/2"	Full Polished	53YT45
7/8"	2 1/2"	Full Polished	53YT46
15/16"	2 1/2"	Full Polished	53YT47
1"	2 1/2"	Full Polished	53YT48
1 3/8"	3"	Full Polished	53YU99
6mm	2 1/2"	Full Polished	53YT49
7mm	2 1/2"	Full Polished	53YT50
8mm	2 1/2"	Full Polished	53YT51
9mm	2 1/2"	Full Polished	53YT52
10mm	2 1/2"	Full Polished	53YT53
11mm	2 1/2"	Full Polished	53YT54
12mm	2 1/2"	Full Polished	53YT55
13mm	2 1/2"	Full Polished	53YT56
14mm	2 1/2"	Full Polished	53YT57
15mm	2 1/2"	Full Polished	53YT58
16mm	2 1/2"	Full Polished	53YT59
17mm	2 1/2"	Full Polished	53YT60
18mm	2 1/2"	Full Polished	53YT61
19mm	2 1/2"	Full Polished	53YT62
20mm	2 1/2"	Full Polished	53YT63
21mm	2 1/2"	Full Polished	53YT64
22mm	2 1/2"	Full Polished	53YT65
23mm	2 1/2"	Full Polished	53YT66
24mm	2 1/2"	Full Polished	53YT67
25mm	2 1/2"	Full Polished	53YT68
Proto			
1/4"	2 1/8"	Polished	429N12
5/16"	2 1/8"	Polished	429N18
11/32"	2 1/8"	Polished	429N21
3/8"	2 1/8"	Polished	429N25
7/16"	2 1/8"	Polished	429N31
1/2"	2 1/8"	Polished	429N37
9/16"	2 1/8"	Polished	429N43
5/8"	2 3/4"	Polished	429N49
11/16"	2 3/4"	Polished	429N55
3/4"	2 3/4"	Polished	429N60
13/16"	2 3/4"	Polished	429N64
7/8"	2 3/4"	Polished	429N67
15/16"	2 3/4"	Polished	429N69
1"	2 3/4"	Polished	429N71
6mm	2 1/8"	Polished	429N08
7mm	2 1/8"	Polished	429N10
8mm	2 1/8"	Polished	429N14
9mm	2 1/8"	Polished	429N16
10mm	2 1/8"	Polished	429N20
11mm	2 1/8"	Polished	429N23
12mm	2 1/8"	Polished	429N27
13mm	2 1/8"	Polished	429N29
14mm	2 1/8"	Polished	429N33
15mm	2 3/4"	Polished	429N35
16mm	2 3/4"	Polished	429N39
17mm	2 3/4"	Polished	429N41
18mm	2 3/4"	Polished	429N45
19mm	2 3/4"	Polished	429N47
20mm	2 3/4"	Polished	429N51
21mm	2 3/4"	Polished	429N53
22mm	2 3/4"	Polished	429N57
23mm	2 3/4"	Polished	429N58
24mm	2 3/4"	Polished	429N61
25mm	2 3/4"	Polished	429N62
26mm	2 3/4"	Polished	429N65
6-Point, Shallow Socket Depth			
Proto			
3/16"	3/4"	Chrome	5TH14

Socket Sizes	Overall Length	Finish	Item No.
1/4"	13/16"	Chrome	5TH15
5/16"	3/4"	Chrome	5TH17
3/8"	3/4"	Chrome	5TH21
7/16"	7/8"	Chrome	5TH24
1/2"	7/8"	Chrome	5TH27
9/16"	7/8"	Chrome	5TH30
5/8"	15/16"	Chrome	5TH33
11/16"	15/16"	Chrome	5TH35
3/4"	15/16"	Chrome	5TH36
6-Point, Standard Socket Depth			
Westward			
1/4"	1"	Full Polished	53YR63
9/32"	1"	Full Polished	53YR64
5/16"	1"	Full Polished	53YR65
11/32"	1"	Full Polished	53YR66
3/8"	1"	Full Polished	53YR67
7/16"	1"	Full Polished	53YR68
1/2"	1"	Full Polished	53YR69
9/16"	1"	Full Polished	53YR70
5/8"	1"	Full Polished	53YR71
11/16"	1"	Full Polished	53YR72
3/4"	1"	Full Polished	53YR73
13/16"	1"	Full Polished	53YR74
7/8"	1"	Full Polished	53YR75
15/16"	1"	Full Polished	53YR76
1"	1"	Full Polished	53YR77
1 3/8"	1 1/2"	Full Polished	53YU21
6mm	1"	Full Polished	53YR78
7mm	1"	Full Polished	53YR79
8mm	1"	Full Polished	53YR80
9mm	1"	Full Polished	53YR81
10mm	1"	Full Polished	53YR82
11mm	1"	Full Polished	53YR83
12mm	1"	Full Polished	53YR84
13mm	1"	Full Polished	53YR85
14mm	1"	Full Polished	53YR86
15mm	1"	Full Polished	53YR87
16mm	1"	Full Polished	53YR88
17mm	1"	Full Polished	53YR89
18mm	1"	Full Polished	53YR90
19mm	1"	Full Polished	53YR91
20mm	1"	Full Polished	53YR92
21mm	1"	Full Polished	53YR93
22mm	1"	Full Polished	53YR94
23mm	1"	Full Polished	53YR95
24mm	1"	Full Polished	53YR96
25mm	1"	Full Polished	53YR97
Proto			
—	3"	Full Polished	49XF86
3/16"	1 3/32"	Polished	429N72
5/16"	1 3/32"	Polished	429N83
11/32"	1 3/32"	Polished	429N87
3/8"	1 3/32"	Polished	429N91
3/8"	1 7/16"	Full Polished	49XF84
7/16"	1 3/32"	Polished	429N97
1/2"	1 1/8"	Polished	429P04
9/16"	1 1/8"	Polished	429P10
11/16"	1 1/8"	Polished	429P22
3/4"	1 3/16"	Polished	429P28
13/16"	1 3/16"	Polished	429P33
7/8"	1 3/16"	Polished	429P36
15/16"	1 3/16"	Polished	429P38
1"	1 3/8"	Polished	429P40
5.5mm	1 3/32"	Chrome	6RCG4
6mm	1 3/32"	Polished	429N73
7mm	1 3/32"	Polished	429N74
8mm	1 3/32"	Polished	429N78
9mm	1 3/32"	Polished	429N81
10mm	1 3/32"	Polished	429N85
11mm	1 3/32"	Polished	429N89
12mm	1 1/8"	Polished	429N93
12mm	12"	Full Polished	49XF87
13mm	1 1/8"	Polished	429N95
14mm	1 1/8"	Polished	429N99
15mm	1 1/8"	Polished	429P02
16mm	1 1/8"	Polished	429P06
17mm	1 1/8"	Polished	429P08
18mm	1 3/16"	Polished	429P12
19mm	1 3/16"	Polished	429P14
20mm	1 3/16"	Polished	429P18
21mm	1 15/64"	Polished	429P20
22mm	1 3/16"	Polished	429P24
23mm	1 3/16"	Polished	429P26
24mm	1 3/16"	Polished	429P30
25mm	1 3/8"	Polished	429P31
26mm	1 3/8"	Polished	429P34
6-Point, Standard Socket Depth, Aerospace Certified			
Proto			
1/4"	1 3/32"	Polished	429N76
5/8"	1 1/8"	Polished	429P16
8-Point, Standard Socket Depth			
Proto			
1/4"	1 3/64"	Chrome	1AK76
5/16"	1 3/64"	Chrome	1AK77
3/8"	1 3/64"	Chrome	1AK78
3/8"	1 7/16"	Full Polished	49XF88
7/16"	1 3/64"	Chrome	1AK79
1/2"	1 1/8"	Chrome	1AK80

Socket Sizes	Overall Length	Finish	Item No.
12-Point, Deep Socket Depth			
Westward			
1/4"	2 1/2"	Full Polished	53YT69
9/32"	2 1/2"	Full Polished	53YT70
5/16"	2 1/2"	Full Polished	53YT71
11/32"	2 1/2"	Full Polished	53YT72
3/8"	2 1/2"	Full Polished	53YT73
7/16"	2 1/2"	Full Polished	53YT74
1/2"	2 1/2"	Full Polished	53YT75
9/16"	2 1/2"	Full Polished	53YT76
5/8"	2 1/2"	Full Polished	53YT77
11/16"	2 1/2"	Full Polished	53YT78
3/4"	2 1/2"	Full Polished	53YT79
13/16"	2 1/2"	Full Polished	53YT80
7/8"	2 1/2"	Full Polished	53YT81
15/16"	2 1/2"	Full Polished	53YT82
1"	2 1/2"	Full Polished	53YT83
1 3/8"	3"	Full Polished	53YV39
6mm	2 1/2"	Full Polished	53YT84
7mm	2 1/2"	Full Polished	53YT85
8mm	2 1/2"	Full Polished	53YT86
9mm	2 1/2"	Full Polished	53YT87
10mm	2 1/2"	Full Polished	53YT88
11mm	2 1/2"	Full Polished	53YT89
12mm	2 1/2"	Full Polished	53YT90
13mm	2 1/2"	Full Polished	53YT91
14mm	2 1/2"	Full Polished	53YT92
15mm	2 1/2"	Full Polished	53YT93
16mm	2 1/2"	Full Polished	53YT94
17mm	2 1/2"	Full Polished	53YT95
18mm	2 1/2"	Full Polished	53YT96
19mm	2 1/2"	Full Polished	53YT97
20mm	2 1/2"	Full Polished	53YT98
21mm	2 1/2"	Full Polished	53YT99
22mm	2 1/2"	Full Polished	53YU01
23mm	2 1/2"	Full Polished	53YU02
24mm	2 1/2"	Full Polished	53YU03
25mm	2 1/2"	Full Polished	53YU04
Proto			
11/32"	1 3/32"	Chrome	2KGP2
3/8"	2 1/8"	Chrome	19C504
7/16"	2 1/8"	Chrome	19C506
1/2"	2 1/8"	Chrome	19C503
9/16"	2 3/8"	Chrome	19C507
5/8"	2 3/8"	Chrome	19C505
6mm	2 1/8"	Chrome	6RCL3
23mm	2 3/4"	Chrome	6RCN1
26mm	2 3/4"	Chrome	6RCN2
12-Point, Deep Socket Depth, Aerospace Certified			
Proto			
1/4"	2 1/8"	Polished	429N11
5/16"	2 1/8"	Polished	429N17
3/8"	2 1/8"	Black Oxide	1AK41
3/8"	2 1/8"	Polished	429N24
7/16"	2 1/8"	Black Oxide	1AK42
7/16"	2 1/8"	Polished	429N30
1/2"	2 1/8"	Black Oxide	1AK43
1/2"	2 1/8"	Polished	429N36
9/16"	2 1/8"	Black Oxide	1AK44
9/16"	2 1/8"	Polished	429N42
5/8"	2 3/4"	Black Oxide	1AK45
5/8"	2 3/4"	Polished	429N48
11/16"	2 3/4"	Black Oxide	1AK46
11/16"	2 3/4"	Polished	429N54
3/4"	2 3/4"	Black Oxide	1AK47
3/4"	2 3/4"	Polished	429N59
13/16"	2 3/4"	Black Oxide	19C477
13/16"	2 3/4"	Polished	429N63
7/8"	2 3/4"	Black Oxide	1AK49
7/8"	2 3/4"	Polished	429N66
15/16"	2 3/4"	Black Oxide	19C483
15/16"	2 3/4"	Polished	429N68
1"	2 3/4"	Polished	429N70
7mm	2 1/8"	Polished	429N09
8mm	2 1/8"	Polished	429N13
9mm	2 1/8"	Polished	429N15
10mm	2 1/8"	Polished	429N19
11mm	2 1/8"	Polished	429N22
12mm	2 1/8"	Polished	429N26
13mm	2 1/8"	Polished	429N28
14mm	2 1/8"	Polished	429N32
15mm	2 3/4"	Polished	429N34
16mm	2 3/4"	Polished	429N38
17mm	2 3/4"	Polished	429N40
18mm	2 3/4"	Polished	429N44
19mm	2 3/4"	Polished	429N46
20mm	2 3/4"	Polished	429N50
21mm	2 3/4"	Polished	429N52
22mm	2 3/4"	Polished	429N56
12-Point, Standard Socket Depth			
Westward			
1/4"	1"	Full Polished	53YR98
9/32"	1"	Full Polished	53YR99
5/16"	1"	Full Polished	53YT01
11/32"	1"	Full Polished	53YT02
3/8"	1"	Full Polished	53YT03
7/16"	1"	Full Polished	53YT04
1/2"	1"	Full Polished	53YT05
9/16"	1"	Full Polished	53YT06
5/8"	1"	Full Polished	53YT07

Socket Sizes	Overall Length	Finish	Item No.
11/16"	1"	Full Polished	53YT08
3/4"	1"	Full Polished	53YT09
13/16"	1"	Full Polished	53YT10
7/8"	1"	Full Polished	53YT11
15/16"	1"	Full Polished	53YT12
1"	1"	Full Polished	53YT13
6mm	1"	Full Polished	53YT14
7mm	1"	Full Polished	53YT15
8mm	1"	Full Polished	53YT16
9mm	1"	Full Polished	53YT17
10mm	1"	Full Polished	53YT18
11mm	1"	Full Polished	53YT19
12mm	1"	Full Polished	53YT20
13mm	1"	Full Polished	53YT21
14mm	1"	Full Polished	53YT22
15mm	1"	Full Polished	53YT23
16mm	1"	Full Polished	53YT24
17mm	1"	Full Polished	53YT25
18mm	1"	Full Polished	53YT26
19mm	1"	Full Polished	53YT27
20mm	1"	Full Polished	53YT28
21mm	1"	Full Polished	53YT29
22mm	1"	Full Polished	53YT30
23mm	1"	Full Polished	53YT31
24mm	1"	Full Polished	53YT32
25mm	1"	Full Polished	53YT33
Proto			
1/4"	1 3/32"	Black Oxide	19C470
1/4"	1 3/32"	Polished	429N75
9/32"	1 3/32"	Chrome	2KGN9
5/16"	1 3/32"	Black Oxide	1AK19
5/16"	1 3/32"	Polished	429N82
5/16"	1 3/4"	Polished	429P41
11/32"	1 3/32"	Polished	429N86
3/8"	1"	Chrome	5ME55
3/8"	1 3/32"	Black Oxide	1AK20
3/8"	1 3/32"	Polished	429N90
3/8"	1 3/4"	Polished	429P42
7/16"	1 1/16"	Chrome	5ME56
7/16"	1 3/32"	Black Oxide	1AK21
7/16"	1 3/32"	Polished	429N96
7/16"	1 3/4"	Polished	429P43
1/2"	1 1/16"	Chrome	5ME57
1/2"	1 1/8"	Black Oxide	1AK22
1/2"	1 1/8"	Polished	429P03
1/2"	1 3/4"	Polished	429P44
17/32"	1 1/8"	Chrome	19C509
9/16"	1 1/16"	Chrome	5ME58
9/16"	1 1/8"	Black Oxide	1AK23
9/16"	1 1/8"	Polished	429P09
9/16"	1 27/32"	Polished	429P45
19/32"	1 1/8"	Chrome	19C510
5/8"	1 1/16"	Chrome	5ME59
5/8"	1 1/8"	Black Oxide	1AK24
5/8"	1 1/8"	Polished	429P15
5/8"	1 27/32"	Polished	429P46
11/16"	1 1/8"	Black Oxide	1AK25
11/16"	1 1/8"	Polished	429P21
11/16"	1 7/8"	Polished	429P47
3/4"	1 3/16"	Black Oxide	1AK26
3/4"	1 3/16"	Polished	429P27
3/4"	1 7/8"	Polished	429P48
25/32"	1 3/16"	Chrome	19C511
13/16"	1 3/16"	Polished	429P32
13/16"	1 7/16"	Black Oxide	1AK27
13/16"	1 7/8"	Polished	429P49
7/8"	1 5/16"	Polished	429P35
7/8"	1 61/64"	Polished	429P50
15/16"	1 3/16"	Polished	429P37
15/16"	1 3/16"	Black Oxide	5C607
15/16"	1 61/64"	Polished	429P51
1"	1 3/8"	Polished	429P39
1"	1 13/16"	Black Oxide	19C468
6mm	1 3/32"	Chrome	6RCK2
7mm	1 3/32"	Chrome	6RCK3
8mm	1 3/32"	Polished	429N77
9mm	1 3/32"	Polished	429N80
10mm	1 3/32"	Polished	429N84
12mm	1 1/8"	Polished	429N92
13mm	1 1/8"	Polished	429N94
14mm	1 1/8"	Polished	429N98
15mm	1 1/8"	Polished	429P01
16mm	1 1/8"	Polished	429P05
17mm	1 1/8"	Polished	429P07
18mm	1 3/16"	Polished	429P11
19mm	1 3/16"	Polished	429P13
20mm	1 3/16"	Polished	429P17
21mm	1 3/32"	Polished	429P19
22mm	1 5/16"	Polished	429P23
23mm	1 5/16"	Polished	429P25
24mm	1 5/16"	Polished	429P29
25mm	1 3/8"	Chrome	6RCL1
26mm	1 3/8"	Chrome	6RCL2
12-Point, Standard Socket Depth, Aerospace Certified			
Proto			
7/8"	1 7/16"	Black Oxide	19C497
11mm	1 3/32"	Polished	429N88

½"-Drive Ratchets, Sockets, and Accessories

PROTO® SK®
WESTWARD®


No. 4VP08


No. 53YV75


No. 54TN55


No. 429R15


No. 53YV23

Description	Overall Length	Brand	Item No.
Ratchet, Specialty			
Aerospace Certified, Breaker Bar, Black Oxide	18⅝"	Proto	1AM36
Aerospace Certified, Breaker Bar, Full Polish	15¾"	Proto	426G28
	18⅝"	Proto	426G29
	24"	Proto	449N20
Breaker Bar, Chrome	9"	SK	12D280
	16"	SK	12D281
	18"	Westward	5TZE0
	24"	SK	12D282
	24"	Westward	5TZE1
Breaker Bar, Full Polish	10⅞"	Proto	426G27
Scaffolding Ratchet, Chrome	10"	Proto	4VP08
Ratchet Repair Kits			
Ratchet Repair Kit, For No. 4LY37, 4YA57, 4YA70, 2MV22, 2MV20, 4CY35, 4YA56, 4YA69, 2MV23, 2MV18, 4XA58, 4YA76, 4WY91, 4YA66	—	Proto	40JC87
Ratchet Repair Kit, For No. 5ME87	—	Proto	19C575
Ratchet Repair Kit for No. 1AR20	—	Proto	1AR21
Ratchets			
Pear Head			
15° Min. Arc Swing, Polish	10"	Proto	426G43
	16"	Proto	426G46
4.2° Min. Arc Swing, Full Polish	11"	Westward	53YV78
4.29° Min. Arc Swing, Chrome	11⅝6"	Westward	54RY25
4° Min. Arc Swing, Black Oxide	10 13/16"	Proto	53GL77
	17 13/16"	Proto	53GL80
4° Min. Arc Swing, Full Polish	25 13/16"	Proto	53GL82
	10 13/16"	Proto	53GL76
	25 13/16"	Proto	53GL81
7.5° Min. Arc Swing, Chrome	15"	SK	12D279
8° Min. Arc Swing, Black Oxide	15"	Proto	19C573
9.5° Min. Arc Swing, Satin	11"	Wera	38UR84
9° Min. Arc Swing, Black Oxide	16"	Proto	1AM22
Aerospace Certified, 8° Min. Arc Swing, Polish	10½"	Proto	426G45
	15"	Proto	426G48
Pear Head, Female			
6.9° Min. Arc Swing, Chrome	16"	Proto	1AM31
Pear Head, Fixed			
15° Min. Arc Swing, Black Oxide	10"	Proto	1AM19
4° Min. Arc Swing, Full Polish	17 13/16"	Proto	53GL78
Pear Head, Flexible			
4° Min. Arc Swing, Full Polish	17 13/16"	Proto	53GL79
7.2° Min. Arc Swing, Chrome	17⅝"	SK	12D277
Pear Head, Oversized Reversing Lever			
15° Min. Arc Swing, Chrome	10"	Proto	4LV08
Pear Head, Sealed			
8° Min. Arc Swing, Black Oxide	10½"	Proto	5ME88
Pear Head, Spud Handle			
6.9° Min. Arc Swing, Black Oxide	14"	Proto	1AM29
Round Head, Fixed			
5° Min. Arc Swing, Chrome	15"	Proto	19C370
7.5° Min. Arc Swing, Chrome	10½"	SK	12D278
Round Head, Flexible			
5° Min. Arc Swing, Chrome	17⅛"	Proto	2CEG5
Round Head, Non-Reversing, Small			
5° Min. Arc Swing, Black Oxide	9⅜"	Proto	19C363
Round Head, Small			
8° Min. Arc Swing, Chrome	9⅜"	Proto	2CEG4
Socket Accessories			
Aerospace Certified, Socket Extension, Black Oxide	10"	Proto	5F483
Aerospace Certified, Socket Extension, Full Polish	2½"	Proto	426G69
	5"	Proto	426G71
	10"	Proto	426G73
	20"	Proto	426G75
Drag Link Socket Bit, ¾" Tip Size	1⅝"	Proto	1AM56
Drag Link Socket Bit, 15/16" Tip Size	1⅝"	Proto	1AM57
Drive Adapter, Full Polish	1½"	Westward	54PR20
Flex Socket, 12-Point	2 15/32"	Proto	4TDG9
Standard - SAE	2 21/32"	Proto	4TDH2
Ratchet Adapter, ½"F x ½"M, Chrome	2 21/32"	Proto	1AM49
Sliding T-Handle, Chrome	12 15/16"	Proto	1AM37
Socket Adapter, ½"F x ½"M, Full Polished	2⅞"	Westward	53YV63
Socket Adapter, ½"F x ¾"M, Chrome	3/32"	SK	12P880
Socket Adapter, ½"F x ⅜"M, Chrome	3/32"	SK	12P879
Socket Adapter, ½"F x ⅜"M, Full Polished	1½"	Westward	53YV65
Socket Adapter, Full Polish	1⅜"	Proto	426H17
	1 11/16"	Proto	426H21
Socket Extension, Black Oxide	2½"	Proto	5F481
	5"	Proto	5F482
Socket Extension, Chrome	18"	Westward	54PR02
	20"	SK	20K369
Socket Extension, Chrome, Locking	5"	Proto	4VP10
	10"	Proto	5HM03

Description	Overall Length	Brand	Item No.
Socket Extension, Full Polish	3"	Westward	53YV71
	3"	Westward	53YV74
	6"	Westward	53YV72
Socket Extension Set, 4 pc., Chrome	18"	Westward	54PR01
Socket Rail, 16 Clips, Chrome	17"	Proto	3R631
Speed Handle, Full Polish	18 1/10"	SK	20K386
T-Handle Driver, Chrome	12"	Westward	437V03
Universal Joint, Full Polish	2¾"	Proto	426J28
Wobble Socket Extension, Chrome	10"	Westward	54PR10
	18"	Westward	54PR11
	20"	Proto	1AM47
Wobble Socket Extension, Full Polish	2½"	Proto	426G70
	5"	Proto	426G72
	6"	Westward	53YV75
	10"	Proto	426G74
Wobble Socket Extension Set, 4 pc., Chrome	3",6",10",18"	Westward	54PR09
Specialty Sockets			
Spark Plug Socket, Chrome, 5/8" Drive	2½"	Westward	54PR29
Spark Plug Socket, Chrome, 13/16" Drive	2 11/16"	Westward	54PR30

Tip Size	Overall Length	Item No.
PROTO Hex and Torx® Bits		
Hex, Standard Socket Depth, 0-Point		
¼"	3¼"	426J07
5/16"	3¼"	426J18
⅜"	3¼"	426J17
7/16"	3¼"	426J21
½"	3¼"	426J19
¾"	4"	426J16
6mm	3¼"	426J20
8mm	3¼"	426J22
10mm	3¼"	426J08
12mm	3¼"	426J09
14mm	3 1/64"	426J11
17mm	4"	426J13
19mm	4"	426J15
Hex, Standard Socket Depth, 6-Point		
¼"	4⅝"	1AP10
5/16"	5⅝"	1AP11
⅜"	5⅝"	1AP12
½"	3⅝ "	426J06
½"	7⅛"	1AP13
9/16"	3¼"	426J23
9/16"	7⅛"	1AP14
⅝"	7 3/16"	1AP15
12mm	7¼"	1AP22
14mm	7¼"	1AP23
17mm	7¼"	1AP24
WESTWARD Hex and Torx® Bits		
Hex, Extra Long Socket Depth, 6-Point		
¼"	5¼"	54TM85
5/16"	5¼"	54TM86
⅜"	5¼"	54TM87
½"	5¼"	54TM89
9/16"	5¼"	54TM90
⅝"	5 11/32"	54TM91
Hex, Standard Socket Depth, 6-Point		
¼"	2¼	54TM76
5/16"	2¼	54TM77
⅜"	2¼	54TM78
7/16"	2¼	54TM79
½"	2¼	54TM80
9/16"	2¼	54TM81
⅝"	2¼	54TM82
6mm	2¼"	54TM93
8mm	2¼"	54TM94
10mm	2¼"	54TM95
12mm	2¼"	54TM96
14mm	2¼"	54TM97
17mm	2¼"	54TM98
Tamper Resistant Torx®, Standard Socket Depth, 6-Point		
T50	2¼"	54TN64

Tip Size	Overall Length	Item No.
Torx®, Standard Socket Depth, 6-Point		
T50	2½"	54TN54
Torx®, Standard Socket Depth, 6-Point, Aerospace Certified		
T55	2½"	54TN55

Socket Sizes	Overall Length	Finish	Item No.
6 Point, Deep			
Proto			
⅜"	3¼"	Polished	429R56
7/16"	3¼"	Polished	429P60
½"	3¼"	Polished	429P64
9/16"	3¼"	Polished	429P68
⅝"	3¼"	Polished	429P72
11/16"	3¼"	Polished	429P76
¾"	3¼"	Polished	429P80
13/16"	3¼"	Polished	429P84
⅞"	3¼"	Polished	429P88
15/16"	3¼"	Polished	429P92
1"	3¼"	Polished	429P96
1 1/16"	3¼"	Chrome	1FX26
1⅛"	3¼"	Polished	429R01
1 3/16"	3¼"	Polished	429R03
1¼"	3¼"	Polished	429R05
1 5/16"	3¼"	Chrome	6RCP2
1⅜"	3¼"	Chrome	6RCP3
1 7/16"	3¼"	Chrome	6RCP4
1½"	3½"	Chrome	1FX09
Westward			
⅜"	3"	Full Polished	53YU83
7/16"	3"	Full Polished	53YU84
½"	3"	Full Polished	53YU85
9/16"	3"	Full Polished	53YU86
⅝"	3"	Full Polished	53YU87
11/16"	3"	Full Polished	53YU88
¾"	3"	Full Polished	53YU89
13/16"	3"	Full Polished	53YU90
⅞"	3"	Full Polished	53YU91
15/16"	3"	Full Polished	53YU92
1"	3"	Full Polished	53YU93
1 1/16"	3"	Full Polished	53YU94
1⅛"	3"	Full Polished	53YU95
1 3/16"	3"	Full Polished	53YU96
1¼"	3"	Full Polished	53YU97
1 5/16"	3"	Full Polished	53YU98
10mm	3"	Full Polished	53YV01
11mm	3"	Full Polished	53YV02
12mm	3"	Full Polished	53YV03
13mm	3"	Full Polished	53YV04
14mm	3"	Full Polished	53YV05
15mm	3"	Full Polished	53YV06
16mm	3"	Full Polished	53YV07
17mm	3"	Full Polished	53YV08

Socket Sizes	Overall Length	Finish	Item No.
18mm	3"	Full Polished	53YV09
19mm	3"	Full Polished	53YV10
20mm	3"	Full Polished	53YV11
21mm	3"	Full Polished	53YV12
22mm	3"	Full Polished	53YV13
23mm	3"	Full Polished	53YV14
24mm	3"	Full Polished	53YV15
25mm	3"	Full Polished	53YV16
26mm	3"	Full Polished	53YV17
27mm	3"	Full Polished	53YV18
28mm	3"	Full Polished	53YV19
29mm	3"	Full Polished	53YV20
30mm	3"	Full Polished	53YV21
32mm	3"	Full Polished	53YV22
6 Point, Standard			
Proto			
5/16"	1 31/64"	Chrome	6RCN4
5/16"	3¼"	Full Polished	49XG20
⅜"	1 31/64"	Polished	429R15
⅜"	3¼"	Full Polished	49XG19
7/16"	1 31/64"	Polished	429R21
½"	1 31/64"	Polished	429R27
9/16"	1½"	Polished	429R33
⅝"	1½"	Polished	429R39
11/16"	1½"	Polished	429R45
¾"	1½"	Polished	429R51
13/16"	1½"	Polished	429R57
⅞"	1 9/16"	Polished	429R63
15/16"	1 9/16"	Polished	429R69
1"	1 9/16"	Polished	429R75
1 1/16"	1 41/64"	Polished	429R79
1⅛"	1¾"	Polished	429R82
1 3/16"	1¾"	Polished	429R86
1¼"	1 55/64"	Polished	429R88
1 5/16"	1¾"	Polished	429R90
1⅜"	2⅛"	Polished	429R92
1 7/16"	2⅛"	Polished	429R94
1½"	2¼"	Polished	429R96
1 9/16"	2¼"	Polished	429R97
6mm	3¼"	Full Polished	49XG21
8mm	1 31/64"	Chrome	6RCR4
10mm	1 31/64"	Polished	429R11
10mm	3¼"	Full Polished	49XG14
13mm	1 31/64"	Polished	429R19
15mm	1½"	Polished	429R25
17mm	1½"	Polished	429R31
19mm	1½"	Polished	429R37
21mm	1½"	Polished	429R43
22mm	1 17/32"	Polished	429R47
24mm	1 17/32"	Polished	429R53
25mm	1 17/32"	Polished	429R55
27mm	1 49/64"	Polished	429R61
28mm	1 25/32"	Polished	429R65

Socket Sizes	Overall Length	Finish	Item No.
29mm	1 25/32"	Polished	429R67
30mm	1 25/32"	Polished	429R71
32mm	1 27/32"	Polished	429R77
34mm	2¼"	Polished	429R80
36mm	2¼"	Polished	429R84
Westward			
1⅛"	1⅝"	Chrome	1AN75
1 3/16"	1⅝"	Chrome	1AN76
1¼"	1¾"	Chrome	1AN77
12 Point, Deep			
Proto			
15/16"	3⅜"	Chrome	19C418
1⅜"	3½"	Polished	429R07
1 7/16"	3½"	Polished	429R08
1½"	3½"	Polished	429R09
12mm	3¼"	Polished	429P57
36mm	3¼"	Chrome	6RCT2
Westward			
⅜"	3"	Full Polished	53YV23
7/16"	3"	Full Polished	53YV24
½"	3"	Full Polished	53YV25
9/16"	3"	Full Polished	53YV26
⅝"	3"	Full Polished	53YV27
11/16"	3"	Full Polished	53YV28
¾"	3"	Full Polished	53YV29
13/16"	3"	Full Polished	53YV30
⅞"	3"	Full Polished	53YV31
15/16"	3"	Full Polished	53YV32
1"	3"	Full Polished	53YV33
1 1/16"	3"	Full Polished	53YV34
1⅛"	3"	Full Polished	53YV35
1 3/16"	3"	Full Polished	53YV36
1¼"	3"	Full Polished	53YV37
1 5/16"	3"	Full Polished	53YV38
10mm	3"	Full Polished	53YV40
11mm	3"	Full Polished	53YV41
12mm	3"	Full Polished	53YV42
13mm	3"	Full Polished	53YV43
14mm	3"	Full Polished	53YV44
15mm	3"	Full Polished	53YV45
16mm	3"	Full Polished	53YV46
17mm	3"	Full Polished	53YV47
18mm	3"	Full Polished	53YV48
19mm	3"	Full Polished	53YV49
20mm	3"	Full Polished	53YV50
21mm	3"	Full Polished	53YV51
22mm	3"	Full Polished	53YV52
23mm	3"	Full Polished	53YV53
24mm	3"	Full Polished	53YV54
25mm	3"	Full Polished	53YV55
26mm	3"	Full Polished	53YV56
27mm	3"	Full Polished	53YV57
28mm	3"	Full Polished	53YV58
29mm	3"	Full Polished	53YV59
30mm	3"	Full Polished	53YV60
32mm	3"	Full Polished	53YV61

Socket Sizes	Overall Length	Finish	Item No.
8 Point, Standard			
Proto			
⅜"	1 7/16"	Chrome	1AN68
7/16"	1 7/16"	Chrome	1AN69
½"	1 7/16"	Chrome	1AN70
9/16"	1½"	Chrome	1AN71
⅝"	1½"	Chrome	1AN72
11/16"	1½"	Chrome	1AN73
¾"	1½"	Chrome	1AN74

CONTINUED

Scan. Order. Done.
Details on page A1.

CONTINUED

1/2"-Drive Ratchets, Sockets, and Accessories

PROTO® SK® WESTWARD®

Socket Sizes	Overall Length	Finish	Item No.
12 Point, Deep, Aerospace Certified			
Proto			
3/8"	3-1/4"	Polished	**429P55**
7/16"	3-1/4"	Polished	**429P59**
1/2"	3-1/4"	Polished	**429P63**
9/16"	3-1/4"	Polished	**429P67**
5/8"	3-1/4"	Polished	**429P71**
11/16"	3-1/4"	Polished	**429P75**
3/4"	3-1/4"	Polished	**429P79**
3/4"	3-1/4"	Black Oxide	**1AN27**
13/16"	3-1/4"	Polished	**429P83**
7/8"	3-1/4"	Polished	**429P87**
15/16"	3-1/4"	Polished	**429P91**
15/16"	3-1/4"	Black Oxide	**1AN30**
1"	3-1/4"	Polished	**429P95**
1-1/16"	3-1/4"	Polished	**429P98**
1-1/16"	3-1/4"	Black Oxide	**1AN32**
1-1/8"	3-1/4"	Polished	**429P99**
1-1/8"	3-1/4"	Black Oxide	**1AN33**
1-3/16"	3-1/4"	Polished	**429R02**
1-1/4"	3-1/4"	Polished	**429R04**
1-1/4"	3-1/4"	Black Oxide	**1AN34**
1-5/16"	3-1/2"	Polished	**429R06**
10mm	3-1/4"	Polished	**429P53**
13mm	3-1/4"	Polished	**429P58**
14mm	3-1/4"	Polished	**429P61**
16mm	3-1/4"	Polished	**429P65**
17mm	3-1/4"	Polished	**429P66**
18mm	3-1/4"	Polished	**429P69**
19mm	3-1/4"	Polished	**429P70**
20mm	3-1/4"	Polished	**429P73**
21mm	3-1/4"	Polished	**429P74**
22mm	3-1/4"	Polished	**429P77**
23mm	3-1/4"	Polished	**429P78**
24mm	3-1/4"	Polished	**429P81**
25mm	3-1/4"	Polished	**429P82**
27mm	3-1/4"	Polished	**429P86**
30mm	3-1/4"	Polished	**429P93**
32mm	3-1/4"	Polished	**429P97**
12 Point, Standard			
Proto			
5/16"	1-31/64"	Chrome	**6RCP6**
3/8"	1-31/64"	Polished	**429R14**
7/16"	1-31/64"	Polished	**429R20**
1/2"	1-31/64"	Polished	**429R26**
9/16"	1-1/2"	Polished	**429R32**
5/8"	1-1/2"	Chrome	**5ME62**
3/4"	1-1/2"	Chrome	**5ME64**
3/4"	1-1/2"	Polished	**429R50**
3/4"	1-1/2"	Black Oxide	**1AM94**
13/16"	1-1/2"	Polished	**429R56**
7/8"	1-1/2"	Chrome	**5ME66**
7/8"	1-9/16"	Polished	**429R62**
15/16"	1-1/2"	Chrome	**5ME67**
15/16"	1-9/16"	Polished	**429R68**
1"	1-9/16"	Polished	**429R74**
1-1/16"	1-9/16"	Black Oxide	**1AN03**
1-1/16"	1-5/8"	Polished	**429R78**
1-1/8"	1-3/4"	Polished	**429R81**
1-1/8"	1-3/4"	Black Oxide	**1AN04**
1-3/16"	1-3/4"	Polished	**429R85**
1-1/4"	1-3/4"	Polished	**429R87**
1-1/4"	1-3/4"	Black Oxide	**1AN06**
1-5/16"	1-55/64"	Polished	**429R89**
1-5/16"	1-7/8"	Black Oxide	**1AN07**
1-3/8"	2"	Polished	**429R91**
1-7/16"	2-1/8"	Polished	**429R93**
1-1/2"	2-1/4"	Black Oxide	**1AN10**
1-1/2"	2-1/4"	Polished	**429R95**
10mm	1-31/64"	Polished	**429R10**
12mm	1-31/64"	Polished	**429R16**
13mm	1-31/64"	Polished	**429R18**
14mm	1-1/2"	Polished	**429R22**
15mm	1-1/2"	Polished	**429R24**
17mm	1-1/2"	Polished	**429R30**
18mm	1-1/2"	Polished	**429R34**
19mm	1-1/2"	Polished	**429R36**
20mm	1-1/2"	Polished	**429R40**
21mm	1-1/2"	Polished	**429R42**
22mm	1-17/32"	Polished	**429R46**
23mm	1-17/32"	Polished	**429R48**
24mm	1-17/32"	Polished	**429R52**
25mm	1-17/32"	Polished	**429R54**
27mm	1-43/64"	Polished	**429R60**
30mm	1-25/32"	Polished	**429R70**
32mm	1-27/32"	Polished	**429R76**
36mm	2-15/64"	Polished	**429R83**
38mm	2-1/4"	Chrome	**6RCR6**
55mm	3-9/32"	Satin	**429T30**
Westward			
3/8"	1-1/2"	Full Polished	**53YU44**
7/16"	1-1/2"	Full Polished	**53YU45**
1/2"	1-1/2"	Full Polished	**53YU46**
9/16"	1-1/2"	Full Polished	**53YU47**
5/8"	1-1/2"	Full Polished	**53YU48**
11/16"	1-1/2"	Full Polished	**53YU49**
3/4"	1-1/2"	Full Polished	**53YU50**
13/16"	1-1/2"	Full Polished	**53YU51**
7/8"	1-1/2"	Full Polished	**53YU52**
15/16"	1-1/2"	Full Polished	**53YU53**
1"	1-1/2"	Full Polished	**53YU54**
1-1/16"	1-1/2"	Full Polished	**53YU55**
1-1/8"	1-1/2"	Full Polished	**53YU56**
1-3/16"	1-1/2"	Full Polished	**53YU57**
1-1/4"	1-1/2"	Full Polished	**53YU58**
1-5/16"	1-1/2"	Full Polished	**53YU59**
1-3/8"	1-1/2"	Full Polished	**53YU60**
10mm	1-1/2"	Full Polished	**53YU61**
11mm	1-1/2"	Full Polished	**53YU62**
12mm	1-1/2"	Full Polished	**53YU63**
13mm	1-1/2"	Full Polished	**53YU64**
14mm	1-1/2"	Full Polished	**53YU65**
15mm	1-1/2"	Full Polished	**53YU66**
16mm	1-1/2"	Full Polished	**53YU67**
17mm	1-1/2"	Full Polished	**53YU68**
18mm	1-1/2"	Full Polished	**53YU69**
19mm	1-1/2"	Full Polished	**53YU70**
20mm	1-1/2"	Full Polished	**53YU71**
21mm	1-1/2"	Full Polished	**53YU72**
22mm	1-1/2"	Full Polished	**53YU73**
23mm	1-1/2"	Full Polished	**53YU74**
24mm	1-1/2"	Full Polished	**53YU75**
25mm	1-1/2"	Full Polished	**53YU76**
26mm	1-1/2"	Full Polished	**53YU77**
27mm	1-1/2"	Full Polished	**53YU78**
28mm	1-1/2"	Full Polished	**53YU79**
29mm	1-1/2"	Full Polished	**53YU80**
30mm	1-1/2"	Full Polished	**53YU81**
32mm	1-1/2"	Full Polished	**53YU82**
12 Point, Standard, Aerospace Certified			
Proto			
5/8"	1-1/2"	Polished	**429R38**
11/16"	1-1/2"	Polished	**429R44**
26mm	1-39/64"	Polished	**429R58**
28mm	1-25/32"	Polished	**429R64**
29mm	1-25/32"	Polished	**429R66**



No. 12D286



No. 1AP37



No. 1TEJ7

WESTWARD® PROTO® SK®

3/4"-Drive Ratchets, Sockets, and Accessories

Description	Overall Length	Brand	Item No.
Ratchets			
Pear Head			
15° Min. Arc Swing, Chrome	20"	Westward	**45J214**
15° Min. Arc Swing, Satin, Aerospace Certified	20"	Proto	**426G49**
5° Min. Arc Swing, Black Oxide	20"	Proto	**1AP26**
Pear Head, Female Drive			
15° Min. Arc Swing, Chrome	20"	Proto	**1AP28**
Pear Head, Quick Release			
15° Min. Arc Swing, Chrome	19-7/8"	Westward	**5MX65**
Round Head			
5° Min. Arc Swing, Chrome	18"	SK	**12D286**
Ratchets, Specialty			
Breaker Bar, Aerospace Certified	20"	Proto	**426G30**
Breaker Bar, Black Oxide	20"	Proto	**1AP31**
Socket Accessories			
Hinge Head, Chrome	18"	SK	**12D287**
L Handle, Chrome	16"	Proto	**1AP33**
Ratchet Adapter, Chrome	3-3/4"	Proto	**1AP37**
Sliding T-Handle, Chrome	18"	Westward	**5MZ16**
	20"	Proto	**1AP32**
Socket Adapter, Chrome, 1/2" Drive	2"	SK	**12D253**
	2-1/8"	Westward	**45J217**
Socket Adapter, Chrome, 1" Drive	2-7/16"	Westward	**45J216**
Socket Adapter, Full Polish, 1/2" Drive	1-7/8"	Proto	**426H20**
Socket Adapter, Full Polish, 1" Drive	2-1/2"	Proto	**426H22**
Socket Extension, Chrome	4"	Westward	**5MW43**
	8"	Westward	**5MW44**
	16"	Westward	**5MW42**
Socket Extension, Full Polish, Aerospace Certified	4"	Proto	**426G77**
	8"	Proto	**426G78**
	16"	Proto	**426G79**
Universal Joint, Aerospace Certified	4"	Proto	**426J29**
Universal Joint, Full Polish	4-5/16"	Westward	**45J215**

Socket Sizes	Overall Length	Finish	Item No.
6 Point, Deep			
Proto			
7/8"	3-1/2"	Satin	**1AP88**
15/16"	3-1/2"	Satin	**1AP89**
1"	3-1/2"	Satin	**1AP90**
1-1/16"	3-1/2"	Satin	**429T15**
1-1/8"	3-1/2"	Satin	**1AP92**
1-1/4"	3-1/2"	Satin	**1AP93**
1-5/16"	3-1/2"	Satin	**1AP94**
1-3/8"	3-1/2"	Satin	**1AP95**
1-7/16"	3-1/2"	Satin	**1AP96**
1-1/2"	3-1/2"	Satin	**1AP97**
1-5/8"	3-1/2"	Satin	**1AP98**
Westward			
1-7/16"	3-9/16"	Chrome	**10E306**
1-1/2"	3-9/16"	Chrome	**10E307**
1-5/8"	3-9/16"	Chrome	**10E309**
1-3/4"	3-9/16"	Chrome	**10E311**
1-13/16"	3-9/16"	Chrome	**10E312**
1-7/8"	3-9/16"	Chrome	**10E313**
2"	3-9/16"	Chrome	**10E314**
36mm	3-9/16"	Chrome	**10E350**
46mm	3-9/16"	Chrome	**10E354**
55mm	3-9/16"	Chrome	**10E357**
6 Point, Standard			
Westward			
1-1/2"	2-3/8"	Chrome	**10E282**
1-5/8"	2-1/2"	Chrome	**10E284**
1-7/8"	2-11/16"	Chrome	**10E288**
2"	2-3/4"	Chrome	**10E289**
2-1/4"	3"	Chrome	**10E293**
2-3/8"	3-1/16"	Chrome	**10E294**
12 Point, Standard			
Proto			
3/4"	2"	Satin	**429T04**
13/16"	1-5/8"	Chrome	**19C464**
13/16"	2"	Satin	**429T07**
7/8"	2"	Satin	**429T09**
15/16"	2"	Satin	**429T10**
1"	1-15/16"	Chrome	**1TEJ7**
1"	2"	Satin	**429T12**
1-1/16"	2"	Chrome	**1TEJ8**
1-1/16"	2"	Satin	**429T14**
1-1/8"	2-7/32"	Satin	**429T16**
1-3/16"	2-7/32"	Satin	**429T18**
1-13/16"	2-29/32"	Satin	**429T32**
1-7/8"	2-31/32"	Satin	**429T33**
2"	3-7/64"	Satin	**429T35**
2-1/16"	3-5/32"	Satin	**429T36**
2-1/8"	3-9/32"	Satin	**429T37**
2-3/16"	3-9/32"	Satin	**429T38**
2-1/4"	3-13/32"	Satin	**429T39**
2-3/8"	3-43/64"	Satin	**429T40**
19mm	2"	Satin	**429R98**
20mm	2"	Satin	**429R99**
22mm	2"	Satin	**429T02**
24mm	2"	Satin	**429T05**
27mm	2"	Satin	**429T08**
28mm	2-7/32"	Satin	**1AP73**
30mm	2-7/32"	Satin	**429T11**
35mm	2-9/32"	Satin	**1AP77**
38mm	2-13/32"	Satin	**1AP79**
42mm	2-23/32"	Satin	**1AP81**
54mm	3-9/32"	Satin	**1AP84**
58mm	3-13/32"	Satin	**1AP86**
Westward			
7/8"	2"	Chrome	**5MX76**
15/16"	2-1/16"	Chrome	**5MX77**
1"	2-1/16"	Chrome	**5MX78**
1-1/16"	2-1/16"	Chrome	**5MX79**
1-1/8"	2-1/16"	Chrome	**5MX80**
1-3/16"	2-1/8"	Chrome	**5MX81**
1-1/4"	2-3/16"	Chrome	**5MX82**
1-5/16"	2-3/16"	Chrome	**5MX83**
1-3/8"	2-1/4"	Chrome	**5MX84**
1-7/16"	2-1/4"	Chrome	**5MX85**
1-1/2"	2-3/8"	Chrome	**5MX86**
1-5/8"	2-1/2"	Chrome	**5MX87**
1-3/4"	2-35/64"	Chrome	**5MX88**
1-13/16"	2-11/16"	Chrome	**5MX89**
1-7/8"	2-3/4"	Chrome	**5MX90**
2"	2-13/16"	Chrome	**5MX91**
2-1/2"	3-2/9"	Chrome	**45J211**
21mm	2"	Chrome	**5MX44**
24mm	2-1/16"	Chrome	**5MX47**
27mm	2-1/16"	Chrome	**5MX49**
30mm	2-1/8"	Chrome	**5MX51**
32mm	2-1/4"	Chrome	**5MX52**
35mm	2-1/4"	Chrome	**5MX53**
36mm	2-1/4"	Chrome	**5MX54**
38mm	2-1/4"	Chrome	**5MX55**
41mm	2-1/2"	Chrome	**5MX56**
46mm	2-43/64"	Chrome	**5MX57**
50mm	2-13/16"	Chrome	**5MX58**
12 Point, Standard, Aerospace Certified			
Proto			
1-1/4"	2-15/64"	Satin	**429T19**
1-5/16"	2-9/32"	Satin	**429T21**
1-3/8"	2-9/32"	Satin	**429T22**
1-7/16"	2-13/32"	Satin	**429T23**
1-1/2"	2-13/32"	Satin	**429T25**
1-9/16"	2-5/8"	Satin	**429T26**
1-5/8"	2-5/8"	Satin	**429T28**
1-11/16"	2-3/4"	Satin	**429T29**
1-3/4"	2-3/4"	Satin	**429T31**
32mm	2-7/32"	Satin	**429T13**
36mm	2-13/32"	Satin	**429T17**
41mm	2-39/64"	Satin	**429T20**
46mm	2-31/32"	Satin	**429T24**
50mm	3-5/32"	Satin	**429T27**

1"-Drive Ratchets, Sockets and Accessories

WESTWARD® PROTO®

Description	Overall Length	Brand	Item No.
Ratchets			
Pear Head			
15° Min. Arc Swing, Chrome	6-1/2"	Westward	**45J258**
Hand Ratchet, Satin	26"	Proto	**426G50**
Ratchets, Specialty			
Breaker Bar, Chrome	26"	Westward	**45J265**
Breaker Bar, Full Polish	27"	Proto	**426G31**
Socket Accessories			
Sliding T-Handle Bar, Chrome	28-1/2"	Proto	**1AR23**
Sliding T-Handle Bar, Full Polish	22"	Westward	**45J263**
Sliding T-Handle Drive Plug, Full Polish	3-1/8"	Westward	**45J260**
Sliding T-Handle Drive Plug for No. 1AR23, Chrome	3"	Proto	**1AR29**
Socket Adapter, 1"F x 3/4"M, Chrome	2-5/8"	Westward	**45J261**
Socket Adapter, Full Polish	2-7/8"	Proto	**426H23**
Socket Extension, Chrome	6"	Westward	**45J262**
	16"	Westward	**45J264**
Socket Extension, Full Polish	8"	Proto	**426G80**
	17"	Proto	**426G81**
Universal Joint, Full Polish	5-5/8"	Westward	**45J259**



No. 426G50



No. 1AR36

Socket Sizes	Overall Length	Finish	Item No.
12-Point, Standard Socket Depth			
Proto			
1"	2-7/16"	Chrome	**19C455**
1-1/8"	2-7/16"	Satin	**1AR31**
1-3/16"	2-7/16"	Satin	**1AR32**
1-1/4"	2-1/2"	Satin	**1AR33**
1-5/16"	2-21/32"	Satin	**1AR34**
1-3/8"	2-21/32"	Satin	**1AR35**
1-3/8"	3"	Chrome	**19C461**
1-7/16"	2-3/4"	Satin	**1AR36**
1-1/2"	2-3/4"	Satin	**1AR37**
1-5/8"	3-1/4"	Satin	**1AR38**
1-11/16"	3-1/4"	Satin	**1AR39**
1-3/4"	3-1/4"	Satin	**1AR40**
1-13/16"	3-5/16"	Satin	**1AR41**
1-7/8"	3-5/16"	Satin	**1AR42**
2"	3-7/16"	Satin	**1AR43**
2-1/16"	3-1/2"	Satin	**1AR44**
2-1/8"	3-5/8"	Satin	**1AR45**
2-3/16"	3-3/4"	Satin	**1AR46**
2-1/4"	3-13/16"	Satin	**1AR47**
2-5/16"	3-17/64"	Satin	**19C394**
2-3/8"	3-43/64"	Satin	**1AR48**
2-7/16"	3-13/32"	Satin	**19C395**
2-1/2"	4-1/8"	Satin	**1AR49**
2-9/16"	4-1/8"	Satin	**1AR50**
2-5/8"	4-1/8"	Satin	**1AR51**
2-3/4"	4-7/16"	Satin	**1AR52**
2-15/16"	4-11/16"	Satin	**1AR53**
3"	4-11/16"	Satin	**1AR54**
3-1/8"	4-15/16"	Satin	**1AR55**
3-1/2"	5-1/8"	Satin	**1AR56**
36mm	2-1/2"	Satin	**19C397**
41mm	2-11/16"	Satin	**19C399**
46mm	2-23/32"	Satin	**19C401**
50mm	3"	Satin	**19C402**
55mm	3-3/16"	Satin	**19C404**
60mm	3-3/8"	Satin	**19C406**
65mm	3-1/2"	Satin	**19C408**

SK® ★ WESTWARD PROTO®

Mixed-Drive Impact Socket Sets

These sets include an assortment of drive sizes in both SAE and metric measurements for a wider variety of applications.


No. 4PRH7


No. 4JX01

No. of Pieces	Socket Type	Sockets Incl.	Includes	Brand	Mfr. Model	Item No.
½" - Drive Size, SAE						
28	6 pt. Std., 6 pt. Deep	½" Dr 6 pt std.: ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4". ½" Dr 6 pt Deep: ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1", 1 1⁄16", 1 1⁄8", 1 1⁄4"	Blow Molded Case	SK	4051	**12D217**
¼", ⅜", ½" - Drive Size, SAE						
12	Internal	¼" Drive: T10, T15, T20, T25, T27, T30, ⅜" Drive: T40, T45, T47, T50, T55, ½" Drive: T60	Blow Molded Case	Westward	—	**4PRH7**
¾" - Drive Size, Metric						
26	12 pt. Std.	17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 40, 41, 42, 43, 46, 50mm	—	Proto	J72106M	**33HD94**
21	6 pt. Std.	19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 40, 41mm	Socket Bar, Socket Clip	Proto	J72103M	**5PZN7**
¾" - Drive Size, SAE						
8	6 pt. Deep	1, 1 1⁄16, 1 1⁄8, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2"	—	Proto	J73102	**33HD97**
	6 pt. Std.	1 1⁄16, 1 1⁄4, 1 7⁄16, 1 5⁄8, 1 13⁄16, 2, 2 3⁄16, 2 3⁄8"	—	Proto	J73104	**33HD99**
⅜", ½" - Drive Size, SAE						
10	Std Hex Bit	⅜" Drive: ¼, ⅛, 3⁄16, ⅜, 5⁄16, 5⁄32, 7⁄32"; ½" Drive: ½, ⅝, 9⁄16"	Blow Molded Box	Proto	J72156	**4JX01**
⅜", ½" - Drive Size, SAE, Metric						
86	6 pt. Std., 6 pt. Deep	⅜", 6 PT Standard: 9mm, 10mm, 11mm, 13mm, 14mm, 15mm, 17mm, 19mm, 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"-⅜", 6 PT Deep: 9mm, 10mm, 11mm, 13mm, 14mm, 15mm, 17mm, 19mm, 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"-½", 6 PT Standard:	—	Proto	J7274	**45EK97**
94	6 pt. Std., 6 pt. Deep	⅜" Dr 6 PT Std: 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm ⅜" Dr 6 PT Deep: 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 1	Blow Molded Case	Westward	45KG81	**45KG81**
⅜", ¼" - Drive Size, Torx®						
10	—	¼" Dr: E4, E5, E6, E7, E8, ⅜" Dr: E8, E10, E12, E14, E16	Clip and Rail	Proto	J39230	**33TA28**
1" - Drive Size, SAE						
16	6 pt. Std.	2 1⁄16, 2 1⁄8, 2 3⁄16, 2 1⁄4, 2 5⁄16, 2 3⁄8, 2 1⁄16, 2 1⁄2, 2 9⁄16, 2 5⁄8, 2 11⁄16, 2 3⁄4, 2 13⁄16, 2 7⁄8, 2 15⁄16, 3"	—	Proto	J76116	**33HD91**

PROTO® ★ WESTWARD®

¼"-Drive Impact Socket Sets

Designed to withstand the high-impacting torque loads that modern impact wrenches produce. Impact sockets are heat treated to a lower hardness than hand or power sockets to ensure durability for impact applications.


No. 4JW80


No. 4JW84


No. 4PRE3

No. of Pieces	Socket Type	Sockets Incl.	Includes	Brand	Mfr. Model	Item No.
SAE						
6	6 pt. Std.	¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16"	6¼" Socket Bar, (6) Socket Clips	Proto	J69102	**4JW80**
11	6 pt. Deep	3⁄16, 7⁄32, ¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½, 9⁄16, ⅝"	9" Socket Bar, (11) Socket Clips	Proto	J69116	**4JW84**
	6 pt. Std.	3⁄16, 7⁄32, ¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½, 9⁄16, ⅝"	9" Socket Bar, (11) Socket Clips	Proto	J69106	**4JW81**
Metric						
11	6 pt. Deep	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	9" Socket Bar, (11) Socket Clips	Proto	J69212	**4JW89**
13	6 pt. Std.	4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	11" Socket Bar, (13) Socket Clips	Proto	J69206	**4JW88**
SAE, Metric						
48	6 pt. Std., 6 pt. Deep	6 Pt. Std.: 3⁄16, 7⁄32, ¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½", 9⁄16"6 Pt Std.: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm 6 Pt. Deep: 3⁄16, 7⁄32, ¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½, 9⁄16" 6 Pt. Deep: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12,	Blow Molded Case	Westward	—	**4PRE3**

PROTO® ★ WESTWARD® SK®

⅜"-Drive Impact Socket Sets

These slightly larger sockets are heat treated to a lower hardness than hand or power sockets to ensure durability. They withstand the high-impacting torque loads that modern impact wrenches produce.


No. 4JW98


No. 4JX02


No. 4PRG1

No. of Pieces	Socket Type	Sockets Incl.	Includes	Brand	Mfr. Model	Item No.
SAE						
5	6 pt. Std.	⅜, 7⁄16, ½, 9⁄16, ⅝"	6¼" Socket Bar, (5) Socket Clips	Proto	J72142	**4JW98**
7	6 pt. Std.	⅜" 6 pt. std.: 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"	Socket Clip, Socket Rail	Proto	J72144	**49XF44**
	Std Hex Bit	¼, ⅛, 3⁄16, ⅜, 5⁄16, 5⁄32, 7⁄32"	9" Socket Bar, ⅜" Socket Clip	Proto	J72152	**4JW99**
9	6 pt. Deep	6 Pt. ¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾"	9" Socket Bar, (9) Socket Clips	Proto	J72112	**4JW94**
	6 pt. Deep	Thin Wall: ¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾"	—	Proto	J72117	**4PKE2**
	6 pt. Std.	¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾"	9" Socket Bar, (9) Socket Clips	Proto	J72102	**4JW92**
12	6 pt. Std.	5⁄16, ⅜, 7⁄16 ½, 9⁄16, ⅝, 11⁄16, ¾, 13⁄16, ⅞, 15⁄16, 1"	Blow Molded Case	Westward	—	**4PRE9**
15	6 pt. Deep	¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾, 13⁄16, ⅞, 15⁄16, 1"	17" Socket Bar, (15) Socket Clips	Proto	J72116	**4JW95**
	6 pt. Std.	¼, 9⁄32, 5⁄16, 11⁄32, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾, 13⁄16, ⅞, 15⁄16, 1"	17" Socket Bar, (15) Socket Clips	Proto	J72106	**4JW93**
25	6 pt. Std., 6 pt. Deep	⅜" Dr 6 Pt std.: ¼", 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16", 1". ⅜" Dr 6 Pt Deep: 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16", ⅞", 15⁄16"	Clip and Rail	Proto	J72125	**33TA30**
Metric						
5	Std Hex Bit	4, 5, 6, 8, 10mm	6¼" Socket Bar, ⅜" Socket Clip	Proto	J72252	**4JX07**
11	6 pt. Deep	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17mm	9" Socket Bar, (11) Socket Clips	Proto	J72212	**4JX04**
	6 pt. Std.	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17mm	9" Socket Bar, (11) Socket Clips	Proto	J72202	**4JX02**
12	6 pt. Deep Thin Wall	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	—	Proto	J72217	**4PKE3**
13	6 pt. Std.	⅜" Drive 6 pt. Deep: 10mm, 12mm, 13mm, 10mm, 11, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm	Socket Clip, Socket Rail	Proto	J47213	**49XF46**
19	6 pt. Deep	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	17" Socket Bar, (19) Socket Clips	Proto	J72216	**4JX05**
	6 pt. Std.	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	17" Socket Bar, (19) Socket Clips	Proto	J72206	**4JX03**
SAE, Metric						
13	6 Pt Std	3⁄16, 7⁄32, ¼, 5⁄16, ⅜, 7⁄16, ½", 4, 5, 6, 7, 10, 12mm	⅜" Drive Hex Impact Driver	Westward	—	**4PRG1**
18	6 pt. Std.	¼", 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"	Socket Clip, Socket Rail	Proto	J72230	**49XF45**
20	6 pt. Std.	¼", 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17mm	Socket Clip, Socket Rail	Proto	J72220	**49XF47**
24	6 pt. Std.	SAE: ¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16, ⅝, 11⁄16, ¾ ; Metric: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	3" Extension Bar and Universal Joint	Westward	—	**4PRF3**
40	6 pt. Std., 6 pt. Deep	⅜" Dr 6 pt std.: 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm. ⅜" Dr 6 pt Deep: 5⁄16", ⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Blow Molded Case	SK	4090	**12D220**
Torx®						
7	External Std.	E6, E7, E8, E10, E12, E14, E16	6¼" Socket Bar, (7) Socket Clips	Proto	J72132	**4JW97**



No. 4PRG3



No. 4JX22

PROTO® WESTWARD®

½"-Drive Impact Socket Sets

Durable, heat-treated sockets have a lower hardness than hand or power sockets. They are designed to withstand the high-impacting torque loads of modern impact wrenches.

No. of Pieces	Socket Type	Sockets Incl.	Includes	Brand	Mfr. Model	Item No.
SAE						
3	Extensions	3, 5, 10"	3, 5, and 10" Sockets, Plastic Tray	Proto	J7515	**5TH97**
7	6 pt. Std.	7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16"	9" Socket Bar, (7) Socket Clips	Proto	J74142	**4JX15**
	Std Hex Bit	¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8"	9" Socket Bar, ½" Socket Clip	Proto	J74152	**4JX16**
11	6 pt. Deep	½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8"	13" Socket Bar, (11) Socket Clips	Proto	J74112	**4JX11**
	6 pt. Std.	½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8"	13" Socket Bar, (11) Socket Clips	Proto	J74102	**4JX08**
13	6 pt. Deep	7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4"	Blow Molded Case	Westward	—	**4PRG3**
	6 pt. Std.	½", 6 PT: ½", 9/16", 5/8", 11/16", ¾", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4"	—	Proto	J74143	**45EK93**
14	6 pt. Std.	7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"	Flex Impact Sockets, Universal Socket	Westward	—	**4PRH5**
15	6 pt. Deep	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"	6¼" and 17" Socket Bars, (15) Socket Clips	Proto	J74114	**4JX12**
	6 pt. Deep	Thin Wall: 3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"	—	Proto	J74117	**4PKA6**
	6 pt. Std.	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"	6¼" and 17" Socket Bars, (15) Socket Clips	Proto	J74104	**4JX09**
19	6 pt. Deep	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2"	9" and 17" Socket Bars, (19) Socket Clips	Proto	J74116	**4JX13**
	6 pt. Deep	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2"	9 and 17" Socket Bars, 19 Socket Clips	Westward	—	**4PRC5**
	6 pt. Std.	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2"	9" and 17" Socket Bars, (19) Socket Clips	Proto	J74106	**4JX10**
28	6 pt. Std., 6 pt. Deep	Std. 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4, Deep 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4"	Impact Universal Joint, 3" Impact Extension Bar	Westward	—	**4PRG8**
Metric						
5	6 Pt Deep	½" Drive Impact Socket 6 PT: 17mm, 19mm, 21mm, 22mm, 24mm	—	Proto	J74218	**45EK91**
6	Std Hex Bit	6, 8, 10, 12, 14, 17mm	9" Socket Bar, ½" Socket Clip	Proto	J74252	**4JX23**
10	6 pt. Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	17" Socket Bar, (10) Socket Clips	Proto	J74212	**4JX20**
	6 pt. Std.	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	13" Socket Bar, (10) Socket Clips	Proto	J74202	**4JX17**
14	6 pt. Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 26, 27mm	—	Westward	—	**4PRG5**
15	6 pt. Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	17" Socket Bar, (15) Socket Clips	Proto	J74214	**4JX21**
	6 pt. Deep	Thin Wall: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	17" Socket Bar, Socket Clip	Proto	J74217	**4PKA7**
	6 pt. Std.	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	17" Socket Bar, (15) Socket Clips	Proto	J74204	**4JX18**
25	6 pt. Deep	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 36mm	17" Socket Bar, (25) Socket Clips	Proto	J74216	**4JX22**
	6 pt. Std.	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 36mm	17" Socket Bar, (25) Socket Clips	Proto	J74206	**4JX19**
26	6 pt. Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36 mm	Blow Molded Case	Westward	—	**4PRG7**
	6 pt. Std.	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36mm	Blow Molded Case	Westward	—	**4PRG6**
30	6 pt. Std., 6 pt. Deep	½" 6 PT Standard: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm ½" Drive Impact Socket 6 PT Deep: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm	—	Proto	J74306	**45EK94**
SAE, Metric						
10	6 pt. Deep	½", 6 PT:13mm, 16mm, 17mm, 19mm, 21mm, ½", 9/16", 5/8", ¾", 13/16"	—	Proto	J74201	**45EK92**
12	6 pt. Std.	½" Dr 6 Pt Impact Socket: 3/8, 7/16, ½, 9/16, 5/8, ¾", 8, 10 , 12, 14, 17, 19mm	Clip and Rail	Proto	J74242	**33TA29**
18	6 Pt Std	SAE: ¼, 9/32, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾ In; Metric: 6, 7, 10, 12, 14, 15, 17, 18mm	—	Westward	—	**4PRH3**
30	6 pt. Std., 6 pt. Deep	3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4", 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	Impact Socket Set (4JX18), Impact Socket Set (4JX12), Toolbox Not Included	Proto	J54215	**33HE18**



No. 21WM43



No. 5ME81



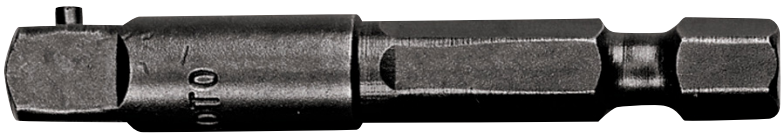
No. 21WL54

PROTO® WESTWARD®

¾" and 1"-Drive Impact Socket Sets

Both drive sizes are designed to withstand high-impacting torque loads from modern impact wrenches. They are heat treated to a lower hardness than hand or power sockets to ensure durability.

Drive Size	No. of Pieces	Socket Type	Sockets Incl.	Includes	Brand	Mfr. Model	Item No.
SAE							
1"	7	4 pt. Std.	1" PT: ¾", 13/16", 7/8", 15/16", 1", 1 1/8", 1 1/2"	—	Proto	J1001SS	**45EK90**
	27	6 pt. Std.	7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 7/8, 2, 2 1/16, 2 1/4, 2 3/8, 2 1/2, 2 5/16, 2 5/8, 2 3/4, 2 7/8, 3, 3 1/8, 3 1/4, 3 3/8, 3 1/2"	Metal Box	Westward	—	**21WM43**
	37	6 pt. Std.	1" 6 PT: ¾", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2", 1 9/16", 1 5/8", 1 11/16", 37989", 1 13/16", 1 7/8", 1 15/16", 2", 2 1/16", 2 1/8", 2 3/16", 2 1/4", 2 5/16", 2 3/8", 2 7/16", 2 1/2", 2 9/16", 2-	—	Proto	J76137	**45EK89**
¾"	5	Std Hex Bit	9/16, 5/8, ¾, 7/8, 1"	9" Socket Bar with 5 Clips	Proto	J07595	**5ME81**
	10	6 pt. Std.	¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16"	Carton	Proto	J07500-10	**1AR78**
	13	12 pt. Std.	¾" Drive Impact Socket 12 PT: ¾", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2"	—	Proto	J72104	**45EK95**
	14	6 pt. Deep	¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2, 1 5/8"	Metal Box	Westward	—	**35HU98**
	15	6 pt. Std.	¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2, 1 9/16, 1 5/8"	Socket Holder	Proto	J73105	**5PZN8**
	20	6 pt. Std.	¾", 12 PT: 5/8", ¾", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1-5"16, 1 3/8", 1 7/16", 1 1/2", 1 5/8", 1 11/16", 1 3/4", 1 13/16", 1 7/8", 1 15/16", 2"	—	Proto	J72103	**45EK96**
Metric							
¾"	9	6 pt. Deep	27, 29, 30, 32, 33, 35, 36, 38, 41mm	Metal Box	Westward	—	**21WL54**
	10	6 pt. Deep	19mm, 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 30mm, 32mm, 33mm	Socket Clip, Socket Rail	Proto	J72100M	**49XF43**
	12	6 pt. Std.	19, 20, 21, 22, 23, 24, 27, 30, 32, 36, 41, 46mm	—	Proto	J72105M	**35GM74**



No. 1AR79



No. 4LYA8



No. 4LYD5



No. 4LYC8



No. 2MA13

PROTO® ★WESTWARD®

¼"-Drive Impact and Power Sockets

Impact Sockets—Withstand high impacting torque loads. Heat treated to a lower hardness than hand or power sockets to ensure durability for impact applications.

Description	Overall Length	Item No.
Proto - ¼", ⅜", ½" Drive Impact Socket Accessories		
Socket Adapter Set, 4-Pc.	—	**19C376**
Proto - ¼" Drive Impact Socket Accessories		
Ratchet Repair Kit	—	**19C576**
Socket Adapter, Black Oxide, ¼" Output Drive Size	1 11/16"	**19C372**
Socket Adapter, Black Oxide, ⅜" Output Drive Size	1"	**21GR85**
Socket Bar	9"	**3R626**
Socket Clip	—	**3R639**
Universal Joint	1 13/32"	**4UHR1**
Universal Joint, Black Oxide	1 11/32"	**21GR84**
Proto - ¼" Drive Power Socket Accessories		
¼" Hex Bit Holder	1"	**1AR82**
¼" Hex Power Shank	2"	**1AR79**
¼" Hex Power Shank	4"	**1AR80**
Impact Hex Extension	6"	**1AR81**
Proto - Impact Socket Accessories		
Socket Rail	11"	**19C378**
Socket Rail	13"	**13X820**
Socket Extensions		
Chrome	14 3/32"	**19C383**
Chrome, Locking	10"	**19C382**
Wobble Socket Extension, Chrome	3"	**19C384**
Westward® - ¼" Drive Impact Socket Accessories		
#2 Phillips, Impact Hex Bit	1 5/16"	**4LZG7**
#3 Phillips, Impact Hex Bit	1 5/16"	**4LZG8**
¼"F x ⅜"M Impact Adapter	1"	**4PRE4**
10F-12R Slotted, Impact Hex Bit	1 ½"	**4LZG9**
Impact Hex Extension	6"	**4PRJ1**
Impact Universal Joint	1 ½"	**4PRE5**
Westward® - ⅜" Drive Impact Socket Accessories		
14F-16R Slotted, Impact Hex Bit	1 ½"	**4LZH1**

Size	Brand	Item No.
6-Point Deep		
3/16"	Proto	**1FR25**
3/16"	Westward	**4LXW7**
¼"	Proto	**1FR18**
¼"	Westward	**4LXV8**
9/32"	Westward	**4LXY2**
5/16"	Proto	**1FR07**
5/16"	Westward	**4LXX3**
11/32"	Proto	**1FP98**
11/32"	Westward	**4LXW1**
⅜"	Proto	**1FP91**
⅜"	Westward	**4LXW8**
7/16"	Proto	**1FP78**
7/16"	Westward	**4LXX6**
½"	Proto	**1FP65**
½"	Westward	**4LXV7**
9/16"	Proto	**1FP59**
9/16"	Westward	**4LXY1**

Size	Brand	Item No.
4mm	Westward	**4LXX1**
4.5mm	Westward	**4LXW9**
5mm	Proto	**10E362**
5.5mm	Proto	**10E433**
5.5mm	Westward	**4LXX2**
6mm	Westward	**4LXX5**
7mm	Westward	**4LXX8**
8mm	Proto	**1FR14**
8mm	Westward	**4LXX9**
9mm	Westward	**4LXY3**
10mm	Proto	**1FR03**
10mm	Westward	**4LXV9**
11mm	Westward	**4LXW2**
12mm	Westward	**4LXW3**
13mm	Westward	**4LXW4**
14mm	Proto	**10E363**
14mm	Westward	**4LXW5**
15mm	Proto	**10E364**

Power Sockets—Designed to withstand assembly operation wear. Use with nonimpacting power tools to stall torque or stop at a predetermined load, typically lower than an impacting tool. Case-hardening heat treatment increases surface hardness. Do not use with impact wrenches.

Size	Brand	Item No.
15mm	Westward	**4LXW6**
Magnetic		
¼"	Westward	**4LYP2**
½"	Westward	**4LYP8**
5mm	Westward	**4LYP9**
5.5mm	Westward	**4LYR1**
7mm	Westward	**4LYR3**
9mm	Westward	**4LYR5**
11mm	Westward	**4LYR7**
6-Point Standard		
3/16"	Westward	**4LXZ4**
7/32"	Westward	**4LYA4**
¼"	Proto	**1AR84**
¼"	Westward	**4LXY5**
9/32"	Proto	**1AR85**
9/32"	Westward	**4LYA8**
5/16"	Proto	**1AR86**
5/16"	Westward	**4LXZ9**
11/32"	Proto	**1AR87**
11/32"	Westward	**4LXY7**
⅜"	Proto	**1AR88**
⅜"	Westward	**4LXZ5**
7/16"	Proto	**1AR89**
7/16"	Westward	**4LYA3**
½"	Proto	**1AR90**
½"	Westward	**4LXY4**
9/16"	Westward	**4LYA7**
⅝"	Proto	**10E359**
4mm	Westward	**4LXZ7**
4.5mm	Westward	**4LXZ6**
5mm	Westward	**4LYA1**
5.5mm	Westward	**4LXZ8**
6mm	Westward	**4LYA2**
7mm	Westward	**4LYA5**
8mm	Proto	**1AT01**
8mm	Westward	**4LYA6**
9mm	Westward	**4LYA9**
10mm	Proto	**1AT03**
10mm	Westward	**4LXY6**
11mm	Westward	**4LXY8**
12mm	Westward	**4LXY9**
13mm	Proto	**1AT05**
13mm	Westward	**4LXZ1**
14mm	Proto	**10E360**
14mm	Westward	**4LXZ2**
15mm	Proto	**10E361**
15mm	Westward	**4LXZ3**
T20	Westward	**4LYZ2**
Flex		
¼"	Westward	**4LYC2**
⅜"	Westward	**4LYC9**
7/16"	Westward	**4LYD5**
9/16"	Westward	**4LYD7**

Size	Brand	Item No.
5mm	Westward	**4LYD3**
5.5mm	Westward	**4LYD1**
6mm	Westward	**4LYD4**
8mm	Westward	**4LYD6**
9mm	Westward	**4LYD8**
11mm	Westward	**4LYC4**
12mm	Westward	**4LYC5**
13mm	Westward	**4LYC6**
13mm	Proto	**4UHT6**
14mm	Westward	**4LYC7**
15mm	Westward	**4LYC8**
Magnetic		
3/16"	Westward	**4LYL8**
¼"	Proto	**2MA21**
5/16"	Proto	**2MA22**
⅜"	Proto	**2MA23**
7/16"	Proto	**2MA24**
9/16"	Westward	**4LYN8**
5mm	Westward	**4LYK4**
7mm	Westward	**4LYK7**
10mm	Westward	**4LYL1**
11mm	Westward	**4LYL2**
12mm	Westward	**4LYL3**
12-Point Standard		
Flex		
5.5mm	Proto	**4UHR7**
6mm	Proto	**4UHR8**
7mm	Proto	**4UHR9**
8mm	Proto	**4UHT1**
9mm	Proto	**4UHT2**
10mm	Proto	**4UHT3**
12mm	Proto	**4UHT5**
Flex		
¼"	Proto	**4UHR2**
5/16"	Proto	**4UHR3**
⅜"	Proto	**4UHR4**
7/16"	Proto	**4UHR5**
½"	Proto	**4UHR6**
Power Sockets, 6-Point Standard		
Magnetic		
3/16"	Proto	**2MA13**
¼"	Proto	**2MA14**
5/16"	Proto	**2MA15**
⅜"	Proto	**2MA17**
7/16"	Proto	**2MA18**
½"	Proto	**2MA19**

Drive Size	Overall Length	For Use With	Item No.
Impact Socket Adapter Set			
Westward			
1 in, ½ in, ¼ in, ⅜ in	1 1/16 in 2 15/16 in	Impact Wrench and Sockets/ Ratchets	**45KG87**

PROTO®

WESTWARD®

3/8"-Drive Impact and Power Sockets



No. 1FK44



No. 5MT14



No. 1FM68

Description	Overall Length	Brand	Item No.
¾", ⅜", ½" Drive Impact Socket Accessories			
Socket Adapter Set, 4-Pc.	—	Proto	**19C375**
Socket Accessories			
#1 Phillips, Impact Hex Bit	1"	Westward	**4LZG3**
#2 Phillips, Impact Hex Bit	1"	Westward	**4LZG4**
#3 Phillips, Impact Hex Bit	1"	Westward	**4LZG5**
¼" Hex Bit Holder	1¼"	Proto	**1AT26**
¼" Hex Impact Shank	4"	Proto	**1AT22**
¼" Hex Impact Shank	6"	Proto	**1AT23**
¼" Impact Hex Bit Holder	2"	Westward	**4LZF9**
⅜"F x ½"M Impact Adapter	1 7/16"	Westward	**4LZA7**
⅜"F x ½"M Socket Adapter	1 5/16"	Proto	**1FK44**
⅜"F x ½"M Socket Adapter	1½"	Proto	**21GR82**
⅜"F x ¼"M Impact Adapter	1¼"	Westward	**4LZA6**
⅜"F x ⅜"M Socket Adapter	2⅛"	Proto	**19C388**
5/16" Hex Bit Holder	1 3/16"	Proto	**1AT27**
7/16" Hex Impact Shank	2¾"	Proto	**1AT24**
3-Pc. Extension Set	3", 6", 12"	Proto	**45EK99**
Adapter and Extension Set, 6-Pc.	—	Westward	**4PRF9**
Hand Impact Driver	5½"	Proto	**1AT29**
Hand Impact Driver Set, 13-Pc.	—	Proto	**4JW91**
Impact Extension	1¾"	Westward	**4LZA4**
Impact Extension	3"	Westward	**4LZA3**
Impact Extension	6"	Westward	**4LZA5**
Impact Extension	12"	Westward	**4PRC6**
Impact Shank	4"	Westward	**4PRJ2**
Impact Socket Adapter Set, 6-Pc.	—	Proto	**4JW14**
Impact Socket Extension	3"	Proto	**1AT19**
Impact Socket Extension	6"	Proto	**1AT20**
Impact Socket Extension	12"	Proto	**1FN65**
Impact Socket Extension, Locking	3"	Proto	**19C374**
Impact Socket Extension, Locking	6"	Proto	**19C377**
Impact Socket Extension, Locking	12"	Proto	**19C373**
Impact Universal Joint	2"	Proto	**4UHT7**
Impact Universal Joint	2½"	Westward	**4LYV7**
Retaining Pin/Ring	¾"	Proto	**19C649**
Retaining Pin/Ring	13/16"	Proto	**19C650**
Retaining Pin/Ring	⅞"	Proto	**19C651**
Retaining Pin/Ring	1"	Proto	**19C652**
Retaining Pin/Ring	1 3/16"	Proto	**19C646**
Retaining Pin/Ring	1¼"	Proto	**19C647**
Socket Clip	—	Proto	**3R640**
Socket Extension	1¾"	Proto	**5F428**
Socket Extension	3"	Proto	**4HVA4**
Socket Extension, Chrome	8"	Proto	**19C380**
Socket Extension Set 4-pc. Chrome	1¾", 3", 6", 12"	Proto	**31XR42**
Universal Joint, Black Oxide	2"	Proto	**21GR83**
Wobble Socket Extension, 1-pc. Chrome	3"	Westward	**33M362**
Wobble Socket Extension, 1-pc. Chrome	6"	Westward	**33M363**

Size	Brand	Item No.
6-Point Deep		
¼ in	Proto	**1FK41**
5/16 in	Proto	**1AT39**
11/32 in	Proto	**1FK33**
⅜ in	Proto	**1AT40**
7/16 in	Proto	**1AT41**
½ in	Proto	**1AT42**
9/16 in	Proto	**1AT43**
⅝ in	Proto	**1AT44**
11/16 in	Proto	**1AT45**
11/16 in	Westward	**5MT14**
¾ in	Proto	**1AT46**
13/16 in	Proto	**1FK12**
⅞ in	Proto	**1FK09**
15/16 in	Proto	**1FK06**
1 in	Proto	**1FK04**
6mm	Proto	**1FN90**
9mm	Proto	**10E367**
9mm	Westward	**5MR84**
10mm	Proto	**1AT62**
11mm	Proto	**1AT63**
11mm	Westward	**5MR74**
12mm	Proto	**1AT64**
12mm	Westward	**5MR75**
13mm	Proto	**1AT65**
14mm	Proto	**1AT66**
14mm	Westward	**5MR77**
15mm	Proto	**1AT67**

Size	Brand	Item No.
15mm	Westward	**5MR78**
18mm	Proto	**5F488**
19mm	Proto	**5F489**
20mm	Proto	**10E368**
22mm	Proto	**5F492**
23mm	Proto	**10E369**
Flex		
5/16 in	Westward	**4LYH4**
13/16 in	Westward	**4LYG1**
1 in	Westward	**4LYF4**
10mm	Proto	**4HUZ3**
11mm	Proto	**4HUZ4**
11mm	Westward	**4LYF8**
12mm	Proto	**4HUZ5**
13mm	Proto	**4HUZ6**
14mm	Proto	**4HUZ7**
14mm	Westward	**4LYG3**
15mm	Proto	**4HUZ8**
16mm	Proto	**4HUZ9**
17mm	Proto	**4HVA1**
18mm	Proto	**4HVA2**
19mm	Proto	**4HVA3**
Magnetic		
11/16 in	Westward	**4LYW6**
8mm	Proto	**5F485**
9mm	Westward	**4LYX1**
12mm	Westward	**4LYX4**
16mm	Proto	**5F486**

Size	Brand	Item No.
17mm	Proto	**5F487**
Thin Wall		
¼ in	Proto	**10H803**
⅛ in	Proto	**10H804**
15/16 in	Proto	**10H805**
8mm	Proto	**10H806**
9mm	Proto	**10H807**
10mm	Proto	**10H808**
11mm	Proto	**10H809**
12mm	Proto	**10H810**
13mm	Proto	**10H811**
14mm	Proto	**10H812**
15mm	Proto	**10H813**
16mm	Proto	**10H814**
17mm	Proto	**10H815**
18mm	Proto	**10H816**
19mm	Proto	**10H817**
6-Point Standard		
¼ in	Proto	**1FN53**
9/32 in	Proto	**10E365**
5/16 in	Proto	**1AT30**
11/32 in	Proto	**1AT31**
⅜ in	Proto	**1AT32**
7/16 in	Proto	**1AT33**
½ in	Proto	**1AT34**
9/16 in	Proto	**1AT35**
⅝ in	Proto	**1AT36**
11/16 in	Proto	**1AT37**
11/16 in	Westward	**4LYE5**
¾ in	Proto	**1AT38**
13/16 in	Westward	**4LYE6**
⅞ in	Proto	**1FM74**
15/16 in	Proto	**1FM71**
1 in	Proto	**1FM68**
7mm	Proto	**1AT51**
8mm	Proto	**1AT52**
9mm	Proto	**1AT53**
10mm	Proto	**1AT54**
11mm	Proto	**1AT55**
12mm	Proto	**1AT56**
13mm	Proto	**1AT57**
14mm	Proto	**1AT58**
15mm	Proto	**1AT59**
16mm	Proto	**5F495**
17mm	Proto	**1AT60**
18mm	Proto	**5F496**
19mm	Proto	**5F497**
23mm	Proto	**10E366**
Flex		
5/16 in	Westward	**4LYJ6**
⅜ in	Proto	**4UHT8**
⅜ in	Westward	**4LYJ5**
7/16 in	Proto	**4UHT9**
7/16 in	Westward	**4LYJ8**
½ in	Proto	**4UHU1**
½ in	Westward	**4LYH9**
9/16 in	Proto	**4UHU2**
9/16 in	Westward	**4LYK1**
⅝ in	Proto	**4UHU3**
⅝ in	Westward	**4LYJ7**
11/16 in	Proto	**4UHU4**
11/16 in	Westward	**4LYJ1**
¾ in	Proto	**4UHU5**
¾ in	Westward	**4LYJ4**
13/16 in	Westward	**4LYJ2**
⅞ in	Westward	**4LYJ9**
15/16 in	Westward	**4LYJ3**
1 in	Westward	**4LYH8**
8mm	Proto	**4UHU6**
10mm	Proto	**4UHU7**
11mm	Proto	**4UHU8**
12mm	Proto	**4UHU9**
13mm	Proto	**4UHV1**
14mm	Proto	**4UHV2**
15mm	Proto	**4UHV3**
16mm	Proto	**4UHV4**
16mm	Proto	**4UHW5**
17mm	Proto	**4UHV5**

Size	Brand	Item No.
18mm	Proto	**4UHV6**
19mm	Proto	**4UHV7**
Hex		
⅛ in	Proto	**1FM60**
5/32 in	Proto	**1FM56**
3/16 in	Proto	**1FM59**
3/16 in	Westward	**4LZA8**
7/32 in	Proto	**1FM55**
7/32 in	Westward	**4LZA9**
¼ in	Proto	**1FM61**
¼ in	Westward	**4LZC1**
5/16 in	Proto	**1FM57**
5/16 in	Westward	**4LZC2**
⅜ in	Proto	**1FM58**
⅜ in	Westward	**4LZC3**
4mm	Westward	**4LZC6**
4mm	Proto	**1FM65**
5mm	Westward	**4LZC7**
5mm	Proto	**1FM64**
6mm	Westward	**4LZC8**
6mm	Proto	**1FM63**
8mm	Proto	**1FM62**
10mm	Westward	**4LZD1**
Magnetic		
¼ in	Westward	**4LYU7**
5/16 in	Proto	**2MA48**
5/16 in	Westward	**4LYU8**
⅜ in	Westward	**4LYU9**
7/16 in	Proto	**2MA50**
7/16 in	Westward	**4LYV1**
½ in	Proto	**2MA51**
½ in	Westward	**4LYV2**
9/16 in	Proto	**2MA52**
9/16 in	Westward	**4LYV3**
⅝ in	Westward	**4LYV4**
11/16 in	Westward	**4LYV5**
¾ in	Westward	**4LYV6**
10mm	Proto	**2MA63**
12mm	Proto	**2MA65**
13mm	Proto	**2MA66**
Magnetic		
7mm	Westward	**4LYT3**
8mm	Westward	**4LYT4**
9mm	Westward	**4LYT5**
10mm	Westward	**4LYT6**
11mm	Westward	**4LYT7**
12mm	Westward	**4LYT8**
13mm	Westward	**4LYT9**
14mm	Westward	**4LYU1**
15mm	Westward	**4LYU2**
16mm	Westward	**4LYU3**
17mm	Westward	**4LYU4**
18mm	Westward	**4LYU5**
19mm	Westward	**4LYU6**
6-Point Standard Power Socket		
Magnetic		
5/16 in	Proto	**2MA42**
⅜ in	Proto	**2MA43**
½ in	Proto	**2MA45**
9/16 in	Proto	**2MA46**
12-Point Standard		
Flex		
10mm	Proto	**4UHV8**
11mm	Proto	**4UHV9**
12mm	Proto	**4UHW1**
13mm	Proto	**4UHW2**
14mm	Proto	**4UHW3**
15mm	Proto	**4UHW4**
17mm	Proto	**4HUY9**
18mm	Proto	**4HUZ1**
19mm	Proto	**4HUZ2**
External Torx® Standard		
E12	Proto	**3R900**
Torx® Standard		
E10	Proto	**3R899**
T40	Westward	**4LYZ6**
T45	Westward	**4LYZ7**
T50	Westward	**4LYZ9**



No. 5TH94



No. 1AW22



No. 1AX17



No. 1FK54

WESTWARD® PROTO®

½"-Drive Impact Sockets and Accessories

Description	Overall Length	Item No.
Proto - ½" Drive Impact Socket Accessories		
½"F x ½"M Adapter	3"	19C371
½"F x ¾"M Adapter	1 29/32"	1AW11
½"F x ¾"M Impact Adapter	1½"	21GR80
¾"F x ½"M Adapter	2 1/16"	1AW12
⅜"M x ½"F Impact Adapter	1 7/16"	1FK43
⅝"F x ½"M Adapter	1⅞"	1AW13
7/16" Impact Hex Shank	2¾"	1AW07
Impact Socket Extension	2"	1AW01
Impact Socket Extension	3"	1AW02
Impact Socket Extension	5"	1AW03
Impact Socket Extension	9"	1AW04
Impact Socket Extension	10"	1AW05
Impact Socket Set, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16, 1, 1 1/16, 1⅛, 1 3/16, 1¼, 1 5/16, 1⅜, 1 7/16, 1½"	—	54JG08
Impact Socket Set, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16, 1, 1 1/16, 1⅛, 1 3/16, 1¼, 1 5/16, 1⅜, 1 7/16, 1½"	—	54JG09
Impact Socket Set, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16, 1, 1 1/16, 1⅛, 1 3/16, 1¼"	—	54JG10
Impact Universal Joint	2¾"	21GR81
Impact Universal Joint	2 15/16"	4HVA7
Locking Impact Extension	3"	5TH94
Locking Impact Extension	5"	5TH95
Locking Impact Extension	10"	5TH96
Retaining Ring	15/16"	10H818

Description	Overall Length	Item No.
Retaining Ring	1"	10H819
Retaining Ring	1 1/16"	10H820
Retaining Ring	1 3/16"	10H821
Retaining Ring	1¼"	10H822
Retaining Ring	1 7/16"	10H823
Retaining Ring	1 9/16"	10H824
Retaining Ring	1¾"	10H825
Socket Clip	—	3R641
Socket Extension	3"	19C379
Socket Extension, Aerospace Certified	36"	426G76
Socket Extension Set, 3-Pc.	2½", 5", 10"	31XR43
Westward® - ½" Drive Impact Socket Accessories		
½"F x ¾"M Impact Adapter	1⅞"	4LYY8
½"F x ⅜"M Impact Adapter	1½"	4LYY7
1 Pc. Impact Socket Extension	10"	45KG88
Adapter and Extension Set, 6-Pc.	—	4PRH6
Impact Extension	5"	4LYY4
Impact Extension	7"	4LYY5
Impact Extension, Steel Ball Retainer	3"	4LZD3
Impact Socket Extension	9"	45KG95
Impact Socket Extension Kit	2, 3, 5, and 10"	45KG89
Impact Socket Extension Set	2", 3", 5", 10"	45EK98
Universal Joint, Steel Ball Retainer	2½"	4LZD4
Westward® - ¼" Drive Impact Socket Accessories		
Impact Driver, T60	1⅝"	4LZA2
Westward® - 7/16" Drive Impact Socket Accessories		
Impact Socket Adapter	2¾"	45KG97

Size	Overall Length	Brand	Item No.
6-Point Deep			
⅜"	3¼"	Proto	1AW34
⅜"	3 17/64"	Westward	4LXL5
7/16"	3¼"	Proto	1AW35
7/16"	3 17/64"	Westward	4LXL8
½"	2 9/16"	Westward	4LXG9
½"	3¼"	Proto	1AW36
9/16"	3¼"	Proto	1AW37
9/16"	3 17/64"	Westward	4LXN4
⅝"	3¼"	Proto	1AW38
⅝"	3 17/64"	Westward	4LXL7
11/16"	3¼"	Proto	1AW39
11/16"	3 17/64"	Westward	4LXH3
¾"	3¼"	Proto	1AW40
¾"	3 17/64"	Westward	4LXL4
13/16"	3 9/64"	Westward	5MX06
13/16"	3¼"	Proto	1AW41
13/16"	3 17/64"	Westward	4LXJ1
⅞"	3½"	Proto	1AW42
⅞"	3 35/64"	Westward	4LXN2
15/16"	3½"	Proto	1AW43
15/16"	3 35/64"	Westward	4LXJ7
1"	2 53/64"	Westward	4LXG7
1"	3½"	Proto	1AW44
1 1/16"	2 53/64"	Westward	4LXG3
1 1/16"	3½"	Proto	1AW45
1⅛"	2 53/64"	Westward	4LXG5
1 3/16"	3½"	Proto	1FL78
1¼"	3 9/64"	Westward	4LXH5
1¼"	3½"	Proto	1FL76
1 5/16"	3½"	Proto	1FL74

Size	Overall Length	Brand	Item No.
1 5/16"	3 35/64"	Westward	4LXJ8
1⅜"	3½"	Proto	1FL72
1⅜"	3 35/64"	Westward	4LXJ3
1 7/16"	3 35/64"	Westward	4LXK2
1½"	3½"	Proto	1FL68
1 9/16"	3½"	Proto	10E370
10mm	3 9/64"	Westward	5MW92
10mm	3¼"	Proto	1AW76
10mm	3 5/16"	Westward	4LXH1
11mm	3¼"	Proto	1AW77
11mm	3 5/16"	Westward	4LXH7
12mm	3¼"	Proto	1AW78
12mm	3 5/16"	Westward	4LXH8
13mm	3¼"	Proto	1AW79
13mm	3 5/16"	Westward	4LXJ4
14mm	3¼"	Proto	1AW80
14mm	3 5/16"	Westward	4LXJ5
15mm	3¼"	Proto	1AW81
15mm	3 5/16"	Westward	4LXJ9
16mm	3¼"	Proto	1AW82
16mm	3 5/16"	Westward	4LXK1
17mm	3¼"	Proto	1AW83
17mm	3 5/16"	Westward	4LXK3
18mm	3¼"	Proto	1AW84
18mm	3 5/16"	Westward	4LXK4
19mm	3¼"	Proto	1AW85
19mm	3 5/16"	Westward	4LXK5
20mm	3¼"	Proto	5F503
20mm	3 5/16"	Westward	4LXK6
21mm	3¼"	Proto	1AW86
21mm	3 5/16"	Westward	4LXK7

Size	Overall Length	Brand	Item No.
22mm	3½"	Proto	1AW87
22mm	3 35/64"	Westward	4LXK8
23mm	3½"	Proto	5F504
24mm	3½"	Proto	1AW88
24mm	3 35/64"	Westward	4LXK9
25mm	3½"	Proto	1AW89
26mm	3½"	Proto	1AW90
26mm	3 35/64"	Westward	4LXL1
27mm	3½"	Proto	5F505
27mm	3 35/64"	Westward	4LXL2
28mm	3½"	Proto	1FL87
29mm	3½"	Proto	5F506
30mm	3½"	Proto	1AW91
32mm	3½"	Proto	5F507
33mm	3½"	Proto	10E387
34mm	3½"	Proto	10E388
35mm	3½"	Proto	10E389
36mm	3½"	Proto	1AW92
Flex			
½"	3½"	Proto	4HVE6
9/16"	3½"	Proto	4HVE7
⅝"	3½"	Proto	4HVE8
11/16"	3½"	Proto	4HVE9
¾"	3½"	Proto	4HVF1
13/16"	3½"	Proto	4HVF2
⅞"	3½"	Proto	4HVF3
15/16"	3½"	Proto	4HVF4
13mm	3½"	Proto	4HVF5
14mm	3½"	Proto	4HVF6
15mm	3½"	Proto	4HVF7
16mm	3½"	Proto	4HVF8

Size	Overall Length	Brand	Item No.
17mm	3½"	Proto	4HVF9
18mm	3½"	Proto	4HVG1
19mm	3½"	Proto	4HVG2
Thin Wall			
⅜"	3¼"	Proto	10E371
7/16"	3¼"	Proto	10E372
½"	3¼"	Proto	10E373
9/16"	3¼"	Proto	4UHL3
⅝"	3¼"	Proto	4UHL4
11/16"	3¼"	Proto	10E374
¾"	3¼"	Proto	4UHL5
13/16"	3¼"	Proto	10E375
⅞"	3½"	Proto	4UHL6
15/16"	3½"	Proto	4UHL7
1"	3½"	Proto	10E376
1 1/16"	3½"	Proto	10E377
1⅛"	3½"	Proto	4PKD2
1 3/16"	3½"	Proto	10E378
1¼"	3½"	Proto	4PKD3
1 5/16"	3½"	Proto	4PKD4
1 7/16"	3½"	Proto	10E380
6-Point Standard			
⅜"	1½"	Proto	1AW19
7/16"	1½"	Proto	1AW20
7/16"	1½"	Westward	4LXV2
½"	1½"	Proto	2MA76
½"	1½"	Proto	1AW21

CONTINUED

CONTINUED

½"-Drive Impact Sockets and Accessories

WESTWARD PROTO

Size	Overall Length	Brand	Item No.
½"	1½"	Westward	4LXP3
9⁄16"	1½"	Proto	1AW22
9⁄16"	1½"	Westward	4LXV5
5⁄8"	1½"	Proto	1AW23
5⁄8"	1½"	Westward	4LXU9
11⁄16"	1½"	Proto	1AW24
11⁄16"	1½"	Westward	5MR99
11⁄16"	1½"	Westward	4LXP6
3⁄4"	1½"	Proto	1AW25
3⁄4"	1½"	Westward	4LXU6
13⁄16"	1½"	Westward	4LXR5
13⁄16"	1⅝"	Proto	1AW26
7⁄8"	1⅝"	Proto	1AW27
7⁄8"	1⅝"	Westward	4LXN5
15⁄16"	1½"	Westward	4LXT2
15⁄16"	1¾"	Proto	1AW28
1"	1½"	Westward	4LXP1
1"	1¾"	Proto	1AW29
1 1⁄16"	1¾"	Proto	1AW30
1 1⁄16"	1 13⁄16"	Westward	4LXN6
1 1⁄16"	1 9⁄16"	Westward	4LXN8
1 1⁄8"	2"	Proto	1AW31
1 3⁄16"	2"	Proto	1AW32
1 1⁄4"	1 9⁄16"	Westward	4LXP9
1 1⁄4"	1 9⁄16"	Westward	4LXN7
1 1⁄4"	2"	Proto	1AW33
1 5⁄16"	1 11⁄16"	Westward	4LXT3
1 5⁄16"	2"	Proto	1FK52
1 3⁄8"	2 1⁄8"	Proto	1FK49
1 7⁄16"	1 31⁄32"	Westward	4LXT6
1 7⁄16"	2 15⁄64"	Proto	1FK47
1 1⁄2"	1 15⁄16"	Westward	4LXP8
1 1⁄2"	2 15⁄64"	Proto	1FK45
1 9⁄16"	2 1⁄4"	Proto	10E434
8mm	1½"	Proto	1AW51
10mm	1½"	Proto	1AW53
10mm	1½"	Westward	4LXP4
11mm	1½"	Proto	1AW54
11mm	1½"	Westward	4LXR2
12mm	1½"	Proto	1AW55
12mm	1½"	Westward	4LXR3
13mm	1½"	Proto	1AW56
13mm	1½"	Westward	4LXR8
14mm	1½"	Proto	1AW57
14mm	1½"	Westward	4LXR9
15mm	1½"	Proto	1AW58
15mm	1½"	Westward	4LXT4
16mm	1½"	Proto	1AW59
16mm	1½"	Westward	4LXT5
17mm	1½"	Proto	1AW60
17mm	1½"	Westward	4LXT7
18mm	1½"	Proto	1AW61
18mm	1½"	Westward	4LXT8
19mm	1½"	Proto	1AW62
19mm	1½"	Westward	4LXT9
20mm	1½"	Westward	4LXU1

Size	Overall Length	Brand	Item No.
20mm	1⅝"	Proto	5F508
21mm	1½"	Westward	4LXU2
21mm	1⅝"	Proto	1AW63
22mm	1½"	Westward	4LXU3
22mm	1⅝"	Proto	1AW64
23mm	1⅝"	Proto	1AW65
24mm	1½"	Westward	4LXU4
24mm	1¾"	Proto	1AW66
25mm	1¾"	Proto	1AW67
26mm	2"	Proto	1AW68
27mm	2"	Proto	1AW69
28mm	2"	Proto	1AW70
29mm	2"	Proto	5F509
30mm	2"	Proto	1AW71
31mm	2"	Proto	10E381
32mm	2"	Proto	1AW72
33mm	2"	Proto	10E382
34mm	2"	Proto	10E383
36mm	2"	Proto	1AW73
38mm	2 1⁄8"	Proto	10E384
41mm	2 15⁄64"	Proto	10E385
46mm	2 1⁄4"	Proto	10E386
Flex			
7⁄16"	2 9⁄16"	Proto	4HVA8
7⁄16"	2 9⁄16"	Westward	4LXF9
½"	2 9⁄16"	Proto	4HVA9
½"	2 9⁄16"	Westward	4LXD4
9⁄16"	2 9⁄16"	Proto	4HVC1
9⁄16"	2 9⁄16"	Westward	4LXG2
5⁄8"	2 9⁄16"	Proto	4HVC2
5⁄8"	2 9⁄16"	Westward	4LXF8
11⁄16"	2 9⁄16"	Proto	4HVC3
11⁄16"	2 9⁄16"	Westward	4LXD5
3⁄4"	2 9⁄16"	Proto	4HVC4
3⁄4"	2 9⁄16"	Westward	4LXF7
13⁄16"	2 9⁄16"	Proto	4HVC5
13⁄16"	2 9⁄16"	Westward	4LXD9
7⁄8"	2 9⁄16"	Proto	4HVC6
7⁄8"	2 9⁄16"	Westward	4LXG1
15⁄16"	2 9⁄16"	Proto	4HVC7
15⁄16"	2 9⁄16"	Westward	4LXE5
1"	2 9⁄16"	Westward	4LXD3
1"	2 53⁄64"	Proto	4HVC8
1 1⁄16"	2 9⁄16"	Westward	4LXD6
1 1⁄16"	2 59⁄64"	Proto	4HVC9
1 1⁄8"	2 49⁄64"	Westward	4LXD8
1 1⁄8"	3"	Proto	4HVD1
1 3⁄16"	2 59⁄64"	Westward	4LXE1
1 3⁄16"	3 3⁄32"	Proto	4HVD2
1 1⁄4"	2 59⁄64"	Westward	4LXD7
1 1⁄4"	3 11⁄64"	Proto	4HVD3
1 5⁄16"	3 1⁄4"	Proto	4HVD4
13mm	2 5⁄8"	Proto	4HVD5
14mm	2 5⁄8"	Proto	4HVD6
15mm	2 5⁄8"	Proto	4HVD7
16mm	2 5⁄8"	Proto	4HVD8

Size	Overall Length	Brand	Item No.
17mm	2 5⁄8"	Proto	4HVD9
18mm	2 5⁄8"	Proto	4HVE1
19mm	2 5⁄8"	Proto	4HVE2
20mm	2 9⁄16"	Westward	4LXF2
21mm	2 5⁄8"	Proto	4HVE3
22mm	2 9⁄16"	Westward	4LXF4
22mm	2 5⁄8"	Proto	4HVE4
24mm	2 5⁄8"	Proto	4HVE5
Magnetic			
9⁄16"	1½"	Proto	2MA77
8-Point Deep			
3⁄8"	3 1⁄4"	Proto	1AX20
7⁄16"	3 1⁄4"	Proto	1AX21
½"	3 1⁄4"	Proto	1AX22
9⁄16"	3 1⁄4"	Proto	1AX23
5⁄8"	3 1⁄4"	Proto	1AX24
11⁄16"	3 1⁄4"	Proto	1AX25
3⁄4"	3 1⁄4"	Proto	1AX26
13⁄16"	3 1⁄4"	Proto	1AX27
7⁄8"	3½"	Proto	1AX28
15⁄16"	3½"	Proto	1AX29
1"	3½"	Proto	1AX30
8-Point Standard			
3⁄8"	1½"	Proto	1AX08
7⁄16"	1½"	Proto	1AX09
½"	1½"	Proto	1AX10
9⁄16"	1½"	Proto	1AX11
5⁄8"	1½"	Proto	1AX12
11⁄16"	1½"	Proto	1AX13
3⁄4"	1½"	Proto	1AX14
13⁄16"	1½"	Proto	1AX15
7⁄8"	1½"	Proto	1AX16
15⁄16"	1¾"	Proto	1AX17
1"	1¾"	Proto	1AX18
1 1⁄16"	2"	Proto	1AX19
12-Point Deep			
7⁄16"	3 1⁄4"	Proto	1AX43
½"	3 1⁄4"	Proto	1AX44
9⁄16"	3 1⁄4"	Proto	1AX45
5⁄8"	3 1⁄4"	Proto	1AX46
11⁄16"	3 1⁄4"	Proto	1AX47
3⁄4"	3 1⁄4"	Proto	1AX48
13⁄16"	3 1⁄4"	Proto	1AX49
7⁄8"	3½"	Proto	1AX50
15⁄16"	3½"	Proto	1AX51
1"	3½"	Proto	1AX52
1 1⁄16"	3½"	Proto	1AX53
1 1⁄8"	3½"	Proto	1FL80
1 3⁄16"	3½"	Proto	1FL79
1 1⁄4"	3½"	Proto	1FL77
1 5⁄16"	3½"	Proto	1FL75
1 7⁄16"	3½"	Proto	1FL71
1 1⁄2"	3½"	Proto	1FL69
12-Point Standard			
3⁄8"	1½"	Proto	1FL59
7⁄16"	1½"	Proto	1AX31

Size	Overall Length	Brand	Item No.
½"	1½"	Proto	1AX32
9⁄16"	1½"	Proto	1AX33
5⁄8"	1½"	Proto	1AX34
11⁄16"	1½"	Proto	1AX35
3⁄4"	1½"	Proto	1AX36
13⁄16"	1⅝"	Proto	1AX37
7⁄8"	1⅝"	Proto	1AX38
15⁄16"	1¾"	Proto	1AX39
1"	1¾"	Proto	1AX40
1 1⁄16"	1¾"	Proto	1AX41
1 1⁄8"	2"	Proto	1AX42
1 3⁄16"	2"	Proto	1FK70
1 1⁄4"	2"	Proto	1FK68
1 5⁄16"	2"	Proto	1FK53
1 3⁄8"	2 1⁄8"	Proto	1FK50
1 7⁄16"	2 15⁄64"	Proto	1FK48
1 1⁄2"	2 15⁄64"	Proto	1FK46
Thin Wall			
10mm	1½"	Proto	1FL64
12mm	1½"	Proto	1FL52
15mm	1½"	Proto	1FL35
16mm	1½"	Proto	1FL29
22mm	1½"	Proto	10E390
23mm	1½"	Proto	10E391
24mm	1½"	Proto	1FK90
Hex Standard			
1⁄4"	3 1⁄4"	Proto	1FK59
5⁄16"	3 1⁄4"	Proto	1FK57
3⁄8"	3 1⁄4"	Proto	1FK58
7⁄16"	3 1⁄4"	Proto	1FK55
½"	3 5⁄8"	Proto	1FK60
9⁄16"	3 5⁄8"	Proto	1FK54
5⁄8"	4"	Proto	1FK56
1/4"	3"	Westward	4LZD7
3/8"	3"	Westward	4LZE1
3/4"	3"	Westward	4LZE7
5/16"	3"	Westward	4LZD9
5/8"	3"	Westward	4LZE5
6mm	3"	Westward	4LZE8
6mm	3 1⁄4"	Proto	1FK62
8mm	3"	Westward	4LZD5
8mm	3 1⁄4"	Proto	1FK61
10mm	3"	Westward	4LZF1
10mm	3 1⁄4"	Proto	1FK66
12mm	3"	Westward	4LZF2
12mm	3 1⁄4"	Proto	1FK65
14mm	3"	Westward	4LZF3
14mm	3 5⁄8"	Proto	1FK64
17mm	3"	Westward	4LZF5
17mm	4"	Proto	1FK63
19mm	3"	Westward	4LZD6
Proto 6-Point Deep, Aerospace Certified			
1⅛"	3½"	Proto	1AW46
Torx® Standard			
E14	1½"	Proto	1FL40
E18	1½"	Proto	1FL17

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready





No. 1AX64



No. 1ACR3



No. 1ACC9



No. 1ACL4

¾"-Drive Impact Sockets and Accessories

PROTO® ★ WESTWARD®

Size/Description	Overall Length	Item No.
Proto - ¾" Drive Impact Socket Accessories		
Impact Universal Joint	4 3/32"	1AX64
Impact Extension	5"	1Q254
Impact Extension, Aerospace Certified	7"	1AX61
Impact Extension	10"	1AX62
Impact Extension, Aerospace Certified	13"	1AX63
¾"F x 1"M Adapter	1 7/8"	1AX65
⅝"F x ¾"M Adapter	1 31/32"	1AX67
Socket Rail	9"	19C387
Socket Bar w/8 Clips	17"	3R633
Socket Clip	9"	3R642
Retaining Ring	1 7/16"	10H826
Retaining Ring	1 15/16"	10H827
Retaining Ring	2 3/16"	10H828
Retaining Ring	2 5/16"	10H829
Retaining Ring	2 7/16"	10H830
Retaining Pin/Ring, 1 7/16" Groove Dia., 1.63" Hub Dia.	1 5/8"	1UDP2
Retaining Pin/Ring, 1 5/8" Groove Dia., 1.81" Hub Dia.	1 13/16"	1UDP3
Retainer Pin	1 5/8"	1AX76
O-Ring	—	1AX77
Westward® - ¾" Drive Impact Socket Accessories		
Impact Universal Joint	3 1/2"	4PRC8
Impact Socket Extension	4"	21WL70
Impact Socket Extension	5"	45KG94
Impact Socket Extension	7"	21WL72
Impact Socket Extension	10"	21WL71
Impact Socket Extension	13"	21WL73
3/4F x ½"M Impact Socket Adapter	2 1/4"	21WL75
3/4F x 1"M Impact Socket Adapter	2 15/32"	21WL74

Size	Overall Length	Brand	Item No.
4-Point Deep			
13/16"	3 1/16"	Proto	1ACR2
4-Point Standard			
⅝"	2"	Proto	1ACR3
1 1/16"	1 7/8"	Proto	1ACR4
13/16"	2"	Proto	1ACR5
6-Point Deep			
1 1/16"	3 1/4"	Proto	1ACF0
1 1/16"	3 1/2"	Westward	21WK97
1 1/2"	3 1/2"	Proto	1ACF7
1 1/2"	3 1/2"	Proto	1ACP0
1 1/2"	3 1/2"	Westward	21WN12
1 1/2"	4"	Proto	1ACP1
1 1/4"	3 1/4"	Proto	1ACF3
1 1/4"	3 1/2"	Westward	21WN10
1 1/8"	3 1/4"	Proto	1ACF1
1 1/8"	3 1/2"	Westward	21WN09
1 3/16"	3 1/4"	Proto	1ACF2
1 3/16"	3 1/2"	Westward	21WK98
1 3/4"	3 1/2"	Westward	21WL03
1 3/4"	3 7/8"	Proto	1ACH1
1 3/8"	3 1/4"	Proto	1ACF5
1 3/8"	3 1/2"	Westward	21WK99
1 5/16"	3 1/4"	Proto	1ACF4
1 5/16"	3 1/2"	Westward	21WN11
1 5/8"	3 3/16"	Proto	1ACF9
1 5/8"	3 1/2"	Westward	21WN13
1 7/16"	3 1/2"	Proto	1ACF6

Size	Overall Length	Brand	Item No.
1 7/16"	3 1/2"	Westward	21WL01
1 7/8"	3 1/2"	Westward	21WN15
1 7/8"	4 1/16"	Proto	1ACH3
1 9/16"	3 3/16"	Proto	1ACF8
1 11/16"	3 1/2"	Westward	21WL02
1 11/16"	3 7/8"	Proto	1ACH0
1 13/16"	3 1/2"	Westward	21WN14
1 13/16"	3 7/8"	Proto	1ACH2
2 1/16"	3 15/16"	Westward	21WL05
2 1/2"	4 1/8"	Westward	21WL12
¾"	3 1/4"	Proto	1ACC5
¾"	3 1/2"	Westward	21WK92
⅝"	3 1/4"	Proto	1ACC3
⅞"	3 1/4"	Proto	1ACC7
⅞"	3 1/2"	Westward	21WK94
9/16"	3 1/4"	Proto	1ACC2
11/16"	3 1/4"	Proto	1ACC4
13/16"	3 1/4"	Proto	1ACC6
13/16"	3 1/2"	Westward	21WK93
15/16"	3 1/4"	Proto	1ACC8
15/16"	3 1/2"	Westward	21WK95
1"	3 1/4"	Proto	1ACC9
1"	3 1/2"	Westward	21WK96
19mm	3 1/4"	Proto	1ACL5
2"	3 1/2"	Westward	21WL04
2"	4 1/16"	Proto	1ACH4
21mm	3 1/4"	Proto	1ACL6
22mm	3 1/4"	Proto	1ACL7

Size	Overall Length	Brand	Item No.
23mm	3 1/2"	Westward	21WL36
24mm	3 1/4"	Proto	1ACL8
24mm	3 1/2"	Westward	21WL37
26mm	3 1/2"	Westward	21WL38
27mm	3 1/4"	Proto	1ACM0
27mm	3 1/2"	Westward	21WL39
29mm	3 1/2"	Westward	21WL40
30mm	3 1/4"	Proto	1ACM1
30mm	3 1/2"	Westward	21WN19
32mm	3 1/4"	Proto	1ACM2
32mm	3 1/2"	Westward	21WL41
33mm	3 1/4"	Proto	5F341
33mm	3 1/2"	Westward	21WL42
35mm	3 1/2"	Westward	21WL44
36mm	3 1/4"	Proto	1ACM4
36mm	3 1/2"	Westward	21WN20
38mm	3 1/2"	Westward	21WL45
38mm	3 7/8"	Proto	1ACM5
41mm	3 1/2"	Westward	21WL46
41mm	3 7/8"	Proto	1ACM6
42mm	3 1/2"	Westward	21WL47
43mm	3 1/2"	Westward	21WL48
46mm	3 1/2"	Westward	21WL50
55mm	3 15/16"	Westward	21WL52
60mm	4 1/8"	Westward	21WL53
6-Point Standard			
1 1/16"	2 1/16"	Proto	1AX86
1 1/2"	2 3/8"	Proto	1AX93
1 1/4"	2 3/16"	Proto	1AX89
1 1/8"	2 3/16"	Proto	1AX87
1 3/16"	2 3/16"	Proto	1AX88
1 3/4"	2 5/8"	Proto	1AX97
1 3/8"	2 1/4"	Proto	1AX91
1 5/16"	2 3/16"	Proto	1AX90
1 5/8"	2 7/16"	Proto	1AX95
1 7/16"	2 5/16"	Proto	1AX92
1 7/8"	2 13/16"	Proto	1AX99
1 9/16"	2 1/4"	Westward	21WK81
1 9/16"	2 7/16"	Proto	1AX94
1 11/16"	2 5/8"	Proto	1AX96
1 13/16"	2 5/8"	Proto	1AX98
1 15/16"	2 13/16"	Proto	1ACC0
2 1/16"	3 3/32"	Proto	1GG74
2 1/4"	3 1/4"	Proto	1GG71
2 1/8"	3 3/32"	Proto	1GG73
2 3/16"	3 1/8"	Proto	1GG72
2 3/8"	3 3/8"	Proto	1GG70
¾"	1 15/16"	Proto	1AX81
¾"	4 9/16"	Proto	1AX71
⅝"	1 7/8"	Proto	1AX79
⅝"	3 27/32"	Proto	1AX70
⅞"	2"	Proto	1AX83
⅞"	4 3/4"	Proto	1AX72
9/16"	1 7/8"	Proto	1AX78
9/16"	3 3/4"	Proto	1AX69
11/16"	1 15/16"	Proto	1AX80
13/16"	1 15/16"	Proto	1AX82
13/16"	2"	Westward	21WK75
15/16"	2"	Proto	1AX84
1"	2"	Proto	1AX85
1"	5 3/16"	Proto	1AX73

Size	Overall Length	Brand	Item No.
17mm	1 15/16"	Proto	1ACH5
17mm	2"	Westward	21WL14
19mm	1 15/16"	Proto	1ACH6
19mm	2"	Westward	21WL16
2"	2 13/16"	Proto	1ACC1
20mm	2"	Westward	21WL17
21mm	1 15/16"	Proto	1ACH7
21mm	2"	Westward	21WL18
22mm	2"	Proto	1ACH8
22mm	2"	Westward	21WL19
23mm	2"	Westward	21WL20
24mm	2"	Proto	1ACK0
25mm	2 1/16"	Proto	5F339
26mm	2 1/16"	Proto	1ACK1
27mm	2 1/16"	Proto	1ACK2
27mm	2 5/64"	Westward	21WL23
28mm	2 3/16"	Proto	1ACK3
29mm	2 5/64"	Westward	21WL24
29mm	2 5/8"	Proto	10E392
30mm	2 3/16"	Proto	1ACK4
31mm	2 7/32"	Proto	5F340
32mm	2 9/16"	Proto	1ACK5
33mm	2 9/16"	Proto	1ACK6
33mm	2 1/4"	Westward	21WN17
34mm	2 1/4"	Proto	1ACK7
35mm	2 1/4"	Proto	5F342
35mm	2 1/4"	Westward	21WL26
36mm	2 5/16"	Proto	1ACK8
38mm	2 3/8"	Proto	1ACK9
40mm	2 1/2"	Proto	5F343
41mm	2 5/8"	Proto	1ACL0
42mm	2 3/4"	Proto	1ACL1
43mm	2 3/4"	Proto	1ACL2
46mm	2 7/8"	Proto	1ACL3
50mm	3 1/8"	Proto	1ACL4
8-Point Standard			
1 1/4"	2 3/8"	Proto	1ACR0
1 5/16"	2 3/8"	Proto	1ACR1
¾"	1 15/16"	Proto	1ACP2
⅞"	2"	Proto	1ACP4
13/16"	2"	Proto	1ACP3
15/16"	2 1/16"	Proto	1ACP5
1"	2 1/8"	Proto	1ACP6
12-Point Deep			
19mm	3 7/64"	Proto	21GT69
21mm	3 7/64"	Proto	21GT70
22mm	3 7/64"	Proto	21GT71
23mm	3 7/64"	Proto	21GT72
24mm	3 7/64"	Proto	21GT73
26mm	3 1/2"	Proto	21GT74
27mm	3 1/2"	Proto	21GT75
30mm	3 1/2"	Proto	21GT76
32mm	3 1/2"	Proto	21GT77
33mm	3 1/2"	Proto	21GT78
35mm	3 1/2"	Proto	21GT79
36mm	3 1/2"	Proto	21GT80
38mm	3 1/2"	Proto	21GT81
41mm	3 1/2"	Proto	21GT82
43mm	3 1/4"	Proto	4UHP9
43mm	3 1/2"	Proto	21GT83

Size	Overall Length	Brand	Item No.
12-Point Standard			
1 1/16"	2 1/16"	Proto	4HD72
1 1/2"	2 3/8"	Proto	4HD79
1 1/4"	2 3/16"	Proto	4HD75
1 1/8"	2 3/16"	Proto	4HD73
1 3/16"	2 3/16"	Proto	4HD74
1 3/4"	2 5/8"	Proto	4HD83
1 3/8"	2 1/4"	Proto	4HD77
1 5/16"	2 3/16"	Proto	4HD76
1 9/16"	2 7/16"	Proto	4HD81
1 7/16"	2 5/16"	Proto	4HD78
1 7/8"	2 13/16"	Proto	4HD85
1 9/16"	2 7/16"	Proto	4HD80
1 11/16"	2 5/8"	Proto	4HD82
1 13/16"	2 5/8"	Proto	4HD84
1 15/16"	2 13/16"	Proto	4HD86
2 1/16"	3 3/32"	Proto	4HD88
2 1/4"	3 1/4"	Proto	4HD91
2 1/8"	3 3/32"	Proto	4HD89
2 3/16"	3 1/8"	Proto	4HD90
2 3/8"	3 3/8"	Proto	1GG69
¾"	1 15/16"	Proto	4HD67
⅝"	1 7/8"	Proto	1GG77
⅞"	2"	Proto	4HD69
9/16"	1 7/8"	Proto	1GG78
11/16"	1 15/16"	Proto	1GG76
13/16"	1 15/16"	Proto	4HD68
15/16"	2"	Proto	4HD70
1"	2"	Proto	4HD71
17mm	2"	Proto	21GT43
19mm	2"	Proto	21GT44
2"	2 13/16"	Proto	4HD87
20mm	2"	Proto	21GT45
21mm	2"	Proto	21GT46
22mm	2"	Proto	21GT47
23mm	2"	Proto	21GT48
24mm	2"	Proto	21GT49
25mm	2"	Proto	21GT50
26mm	2"	Proto	21GT51
27mm	2 1/8"	Proto	21GT52
28mm	2 1/8"	Proto	21GT53
29mm	2 1/8"	Proto	21GT54
30mm	2 1/8"	Proto	21GT55
31mm	2 1/8"	Proto	21GT56
32mm	2 1/8"	Proto	21GT57
33mm	2 1/8"	Proto	21GT58
34mm	2 1/8"	Proto	21GT59
35mm	2 1/4"	Proto	21GT60
36mm	2 1/4"	Proto	21GT61
38mm	2 1/4"	Proto	21GT62
40mm	2 1/2"	Proto	21GT63
41mm	2 1/2"	Proto	21GT64
42mm	2 9/16"	Proto	21GT65
43mm	2 5/8"	Proto	21GT66
46mm	2 5/8"	Proto	21GT67
50mm	2 3/4"	Proto	21GT68
Hex 6-Point Shallow			
1 1/4"	3 1/2"	Westward	21WL67



No. 1ACR9



No. 1AFM7



No. 21WM79



No. 21GT25



No. 21GR88

PROTO® ★ WESTWARD®

1"-Drive Impact Sockets and Accessories

Description	Overall Length	Item No.
Proto - 1" Drive Impact Socket Accessories		
Universal Joint	4 19/32"	**1ACR9**
Impact Extension	7 3/8"	**1ACR6**
Impact Extension	10"	**1ACR7**
Impact Extension	13"	**1ACR8**
1 1/2" x 13/16" Budd Wheel Socket	4"	**1ACT0**
1"F x 3/4"M Adapter	2 1/8"	**1AX66**
1"F x 1 1/2"M Adapter	3 1/2"	**1ACT1**
Retaining Ring, 1 3/4" Groove Dia., 1.96" Hub Dia.	1 15/16"	**1UDP4**
Retaining Ring, 2" Groove Dia., 2.21" Hub Dia.	2 3/16"	**1UDP5**
Retaining Ring, 2 1/8" Groove Dia., 2.36" Hub Dia.	2 5/16"	**1UDP6**
Retaining Ring, 2 1/4" Groove Dia., 2.46 Hub Dia.	2 7/16"	**1UDP7**
Retaining Ring, 2 1/2" Groove Dia., 2.71" Hub Dia.	2 11/16"	**1UDP8**
Retaining Ring, 2 5/8" Groove Dia.	2 13/16"	**10H831**
Retainer Pin	1 7/8"	**1ACT8**
Retainer Pin	2 1/8"	**1ACT9**
O-Ring (2" O.D.)	2"	**1ACW0**
O-Ring (2 1/4" O.D.)	2 1/4"	**1ACW1**
Male Drive Plug	2 15/32"	**1AR28**
Westward® - 1" Drive Impact Socket Accessories		
1F x 3/4"M Impact Socket Adapter	2 7/8"	**21WM79**

Size	Overall Length	Brand	Item No.
4-Point Budd Wheel			
13/16" Square	2 3/8"	Westward	**21WM95**
4-Point Standard			
1"	2 1/2"	Proto	**1AFP8**
1 1/2"	2 1/2"	Proto	**10E394**
1 1/8"	2 1/2"	Proto	**10E393**
13/16"	2 1/2"	Proto	**1AFP5**
15/16"	2 1/2"	Proto	**1AFP7**
3/4"	2 1/2"	Proto	**1AFP4**
7/8"	2 1/2"	Proto	**1AFP6**
6-Point Deep			
1"	3 3/4"	Proto	**1AFK6**
2"	4 1/4"	Proto	**1AFM1**
3"	5"	Proto	**21GR93**
4"	6 1/2"	Proto	**21GT02**
24mm	4"	Proto	**21GT06**
26mm	4 1/4"	Westward	**21WL97**
27mm	4"	Proto	**21GT07**
28mm	4"	Proto	**21GT08**
30mm	4"	Proto	**21GT09**
32mm	4"	Proto	**21GT10**
33mm	4"	Proto	**21GT11**
35mm	4"	Proto	**21GT12**
35mm	4 1/4"	Westward	**21WM04**
36mm	4"	Proto	**21GT13**
38mm	4"	Proto	**21GT14**
41mm	4"	Proto	**21GT15**
46mm	4 1/8"	Proto	**21GT16**
50mm	4 1/4"	Proto	**21GT17**
55mm	4 1/2"	Proto	**21GT18**
60mm	4 3/4"	Proto	**21GT19**
65mm	4 7/8"	Proto	**21GT20**
70mm	5"	Proto	**21GT21**
75mm	5 1/4"	Proto	**21GT22**
80mm	5 1/2"	Proto	**21GT23**
1 1/16"	4 1/16"	Proto	**10E395**
1 13/16"	4 1/16"	Proto	**1AFL8**
1 15/16"	4 1/4"	Proto	**1AFM0**
1 1/2"	4"	Proto	**1AFL4**
1 1/4"	3 3/4"	Proto	**1AFL0**
1 1/8"	3 3/4"	Proto	**1AFK8**
1 1/16"	3 3/4"	Proto	**1AFK7**
1 3/4"	4 1/16"	Proto	**1AFL7**
1 3/8"	3 3/4"	Proto	**1AFL2**
1 3/16"	3 3/4"	Proto	**1AFK9**
1 5/8"	4"	Proto	**1AFL6**
1 5/16"	3 3/4"	Proto	**1AFL1**
1 7/8"	4 1/4"	Proto	**1AFL9**
1 7/16"	4"	Proto	**1AFL3**
1 9/16"	4"	Proto	**1AFL5**
2 13/16"	4 15/16"	Westward	**21WM66**
2 13/16"	5"	Proto	**21GR90**
2 15/16"	5"	Proto	**21GR92**
2 1/2"	4 7/8"	Proto	**4PKC6**
2 1/4"	4 1/2"	Proto	**1AFM4**
2 1/8"	4 1/2"	Proto	**1AFM2**
2 1/16"	4 1/4"	Proto	**10E396**

Size	Overall Length	Brand	Item No.
2 3/4"	5"	Proto	**1GG66**
2 3/8"	4 3/4"	Proto	**1AFM6**
2 3/16"	4 1/2"	Proto	**1AFM3**
2 5/8"	5"	Proto	**4PKC7**
2 5/16"	4 3/4"	Proto	**1AFM5**
2 7/8"	4 15/16"	Westward	**21WM67**
2 7/8"	5"	Proto	**21GR91**
2 7/16"	4 7/8"	Proto	**4PKC5**
3 1/2"	6"	Proto	**21GR97**
3 1/4"	5 5/16"	Westward	**21WM71**
3 1/4"	5 5/8"	Proto	**21GR95**
3 1/8"	5 1/2"	Proto	**21GR94**
3 3/4"	6 1/4"	Proto	**21GR99**
3 3/8"	5 5/16"	Westward	**21WM72**
3 3/8"	5 3/4"	Proto	**21GR96**
3 5/8"	6 1/8"	Proto	**21GR98**
3 7/8"	6 3/8"	Proto	**21GT01**
4 1/2"	7 1/4"	Proto	**21GT05**
4 1/4"	7"	Proto	**21GT04**
4 1/8"	6 3/4"	Proto	**21GT03**
1 3/16"	4"	Proto	**21GR89**
1 5/16"	3 3/4"	Proto	**1AFK5**
3/4"	4"	Proto	**21GR88**
7/8"	3 3/4"	Proto	**1AFK4**
6-Point Deep Thin Wall			
1 1/16"	4 1/4"	Westward	**21WM92**
6-Point Standard			
1"	2 3/8"	Westward	**21WM18**
1"	2 1/2"	Proto	**1ACW6**
2"	2 63/64"	Westward	**21WN28**
2"	3"	Proto	**1AFF2**
3"	3 15/16"	Westward	**21WM37**
3"	4"	Proto	**1AFH8**
4"	5 1/2"	Proto	**1GG63**
19mm	2 1/2"	Proto	**1AFM7**
22mm	2 1/2"	Proto	**1AFM8**
24mm	2 1/2"	Proto	**1AFM9**
26mm	2 3/8"	Westward	**21WL76**
27mm	2 5/8"	Proto	**1AFN0**
30mm	2 7/16"	Proto	**1AFN2**
32mm	2 7/16"	Proto	**1AFN3**
33mm	2 7/16"	Proto	**1AFN4**
35mm	2 19/32"	Westward	**21WL82**
36mm	2 7/16"	Proto	**1AFN5**
38mm	3 3/8"	Proto	**10E438**
41mm	2 5/8"	Proto	**1AFN6**
46mm	2 13/16"	Proto	**1AFN7**
50mm	3"	Proto	**1AFN8**
54mm	4 7/16"	Proto	**10E439**
55mm	3 1/8"	Proto	**1AFN9**
58mm	3 13/64"	Proto	**10E440**
60mm	3 3/8"	Proto	**1AFP0**

Size	Overall Length	Brand	Item No.
63mm	3 19/32"	Westward	**21WL92**
63mm	5"	Proto	**10E441**
65mm	3 1/2"	Proto	**1AFP1**
67mm	3 5/8"	Westward	**21WL94**
70mm	3 3/4"	Proto	**4PKC8**
75mm	3 3/4"	Proto	**4PKC9**
80mm	4"	Proto	**4PKD1**
1 11/16"	2 13/16"	Proto	**1AFC7**
1 13/16"	2 13/16"	Proto	**1AFC9**
1 15/16"	3"	Proto	**1AFF1**
1 1/2"	2 19/32"	Westward	**21WN24**
1 1/2"	2 5/8"	Proto	**1AFC4**
1 1/4"	2 5/8"	Proto	**1AFC0**
1 1/8"	2 7/16"	Westward	**21WM20**
1 1/8"	2 5/8"	Proto	**1ACW8**
1 1/16"	2 5/8"	Proto	**1ACW7**
1 3/4"	2 3/4"	Westward	**21WM26**
1 3/4"	2 13/16"	Proto	**1AFC8**
1 3/8"	2 3/4"	Proto	**1AFC2**
1 3/16"	2 7/16"	Westward	**21WM21**
1 3/16"	2 5/8"	Proto	**1ACW9**
1 5/8"	2 5/8"	Proto	**1AFC6**
1 5/8"	2 11/16"	Westward	**21WN25**
1 5/16"	2 3/4"	Proto	**1AFC1**
1 7/8"	2 27/32"	Westward	**21WN27**
1 7/8"	3"	Proto	**1AFF0**
1 7/16"	2 7/16"	Proto	**1AFC3**
1 9/16"	2 5/8"	Proto	**1AFC5**
2 11/16"	3 21/32"	Proto	**1AFH3**
2 13/16"	3 13/16"	Proto	**1AFH5**
2 15/16"	3 7/8"	Proto	**1AFH7**
2 1/2"	3 15/32"	Westward	**21WM32**
2 1/2"	3 1/2"	Proto	**1AFH0**
2 1/4"	3 1/4"	Proto	**1AFF6**
2 1/4"	3 5/16"	Westward	**21WN29**
2 1/8"	3 3/32"	Proto	**1AFF4**
2 1/16"	3 3/32"	Proto	**1AFF3**
2 3/4"	3 3/4"	Proto	**1AFH4**
2 3/4"	3 3/4"	Westward	**21WM35**
2 3/8"	3 3/8"	Proto	**1AFF8**
2 3/8"	3 15/32"	Westward	**21WN30**
2 3/16"	3 1/8"	Proto	**1AFF5**
2 1/16"	3 1/2"	Proto	**10H802**
2 5/8"	3 5/8"	Proto	**1AFH2**
2 5/8"	3 5/8"	Westward	**21WM34**
2 5/16"	3 9/16"	Proto	**1AFF7**
2 7/8"	3 7/8"	Proto	**1AFH6**
2 7/16"	3 3/8"	Proto	**1AFF9**
2 3/16"	3 1/2"	Proto	**1AFH1**
2 9/16"	3 5/8"	Westward	**21WM33**
3 1/2"	4 1/4"	Westward	**21WM41**
3 1/2"	4 1/2"	Proto	**1AFK2**

Size	Overall Length	Brand	Item No.
3 1/4"	4 3/8"	Proto	**1AFK0**
3 1/8"	4 1/16"	Proto	**1AFH9**
3 3/8"	4 7/16"	Proto	**1AFK1**
3 5/8"	4 3/4"	Proto	**1GG65**
3 7/8"	5"	Proto	**1GG64**
4 1/2"	6"	Proto	**1GG60**
4 1/4"	5 1/2"	Proto	**1GG61**
4 1/8"	5 1/2"	Proto	**1GG62**
1 3/16"	2 1/2"	Proto	**1ACW3**
1 5/16"	2 1/4"	Westward	**21WM17**
1 5/16"	2 1/2"	Proto	**1ACW5**
3/4"	2 1/16"	Proto	**1ACW2**
7/8"	2 1/4"	Westward	**21WM16**
7/8"	2 1/2"	Proto	**1ACW4**
8-Point Standard			
2"	3 1/2"	Proto	**10H801**
1 1 1/16"	3 1/2"	Proto	**10H796**
1 1 3/16"	3 1/2"	Proto	**10H798**
1 1/2"	2 13/16"	Proto	**10H794**
1 1/4"	2 13/16"	Proto	**10H790**
1 3/4"	3 1/2"	Proto	**10H797**
1 3/8"	2 13/16"	Proto	**10H792**
1 3/16"	2 1 1/16"	Proto	**10H789**
1 5/8"	3 1/2"	Proto	**10H795**
1 9/16"	2 13/16"	Proto	**10H791**
1 7/8"	3 1/2"	Proto	**10H799**
1 7/16"	2 13/16"	Proto	**10H793**
1 5/16"	2 5/8"	Proto	**10H788**
7/8"	2 5/8"	Proto	**10E443**
12-Point Deep			
2 9/16"	5"	Proto	**1GG67**
12-Point Standard			
1"	2 17/32"	Proto	**21GT27**
2"	3"	Proto	**21GT39**
1 1 1/16"	2 1 1/16"	Proto	**21GT36**
1 1/2"	2 1 1/16"	Proto	**21GT34**
1 1/4"	2 1 1/16"	Proto	**21GT30**
1 1/8"	2 9/16"	Proto	**21GT29**
1 3/4"	2 1 1/16"	Proto	**21GT37**
1 3/8"	2 1 1/16"	Proto	**21GT32**
1 5/8"	2 1 1/16"	Proto	**21GT35**
1 9/16"	2 1 1/16"	Proto	**21GT31**
1 7/8"	2 13/16"	Proto	**21GT38**
1 7/16"	2 1 1/16"	Proto	**21GT33**
2 1/4"	3 1/16"	Proto	**21GT41**
2 1/16"	3"	Proto	**21GT40**
2 3/8"	3 1/4"	Proto	**21GT42**
1 5/16"	2 7/16"	Proto	**21GT26**
7/8"	2 13/32"	Proto	**21GT25**

Size	Item No.
Proto 6-Point Standard - SAE	
15/16"	10E397
1 3/8"	1AFT2
1 7/16"	1AFT3
1 1/2"	1AFT4
1 9/16"	1AFT5
1 5/8"	1AFT6
1 11/16"	1AFT7
1 3/4"	1AFT8
1 13/16"	1AFT9
1 7/8"	1AFW0
1 15/16"	1AFW1
2"	1AFW2
2 1/16"	1AFW3
2 1/8"	1AFW4
2 3/16"	1AFW5
2 1/4"	1AFW6
2 5/16"	1AFW7
2 3/8"	1AFW8
2 7/16"	1AFW9
2 1/2"	1AHC0
2 9/16"	1AHC1
2 5/8"	1AHC2
2 11/16"	1AHC3
2 3/4"	1AHC4
2 13/16"	1AHC5
2 7/8"	1AHC6
2 15/16"	1AHC7
3"	1AHC8
3 1/16"	1AHC9
3 1/8"	1AHF0
3 3/16"	1AHF1
3 1/4"	1AHF2
3 5/16"	1AHF3
3 3/8"	1AHF4
3 7/16"	1AHF5

Size	Item No.
3 1/2"	1AHF6
3 5/8"	1AHF8
3 11/16"	1AHF9
3 3/4"	1AHH0
3 13/16"	1AHH1
3 7/8"	1AHH2
3 15/16"	1AHH3
4"	1AHH4
4 1/8"	1AHH6
4 3/16"	4UHK9
4 1/4"	1AHH8
4 3/8"	4UHL1
4 7/16"	4UHL2
4 1/2"	1AHK2
4 5/8"	1AHK3
4 3/4"	1AHK4
5"	4PKA8
Proto 6-Point Deep - SAE	
1 5/16"	10E398
1 3/8"	10E399
1 7/16"	1AHK6
1 1/2"	10E401
1 9/16"	4UHJ7
1 11/16"	4UHJ8
1 7/8"	1AHL3
2 1/8"	1AHL7
2 3/16"	1AHL8
2 1/4"	1AHL9
2 3/8"	1AHM1
2 7/16"	1AHM2
2 1/2"	1AHM3
2 9/16"	4UHJ9
2 11/16"	4UHK1
2 3/4"	1AHM7
2 13/16"	1AHM8
2 7/8"	1AHM9

Size	Item No.
2 15/16"	1AHN0
3"	1AHN1
3 1/16"	1AHN2
3 1/8"	1AHN3
3 3/16"	1AHN4
3 1/4"	1AHN5
3 5/16"	4UHK2
3 3/8"	1AHN7
3 1/2"	1AHN9
3 11/16"	4UHK3
3 3/4"	1AHP3
3 13/16"	1AHP4
3 7/8"	1AHP5
3 15/16"	4UHK4
4"	1AHP7
4 1/16"	4UHK5
4 1/4"	1AHT1
4 5/16"	4UHK7
4 3/8"	4UHK8
4 1/2"	1AHT4
4 3/4"	1AHT6
Proto 6-Point Standard - Metric	
36mm	10E402
38mm	10E403
60mm	4PKC1
65mm	4PKC2
70mm	4PKC3
75mm	4PKC4
Westward® 6-Point Standard - Metric	
90mm	21WM87
100mm	21WM89
105mm	21WM90
115mm	21WM91



No. 1AFT4



No. 21WM87



No. 1AFR0

PROTO® WESTWARD®

1½"-Drive Impact Sockets and Accessories

Description	Overall Length	Item No.
Proto - 1½" Drive Impact Socket Accessories		
Impact Universal Joint	6 19/64"	19ZA61
Impact Extension	8"	1AFR0
Impact Extension	12"	1AFR1
Impact Extension	15"	1AFR2
Retaining Ring, 2 7/8" Groove Dia., 3.13" Hub Dia.	3 3/8"	1UDP9
Retaining Ring, 3 3/8" Groove Dia., 3.63" Hub Dia.	3 7/8"	1UDR1
Retaining Ring, 3 7/8" Groove Dia., 4.13" Hub Dia.	4 3/8"	1UDR2
"Retaining Ring, 4 3/8" Groove Dia., 4.63" Hub Dia."	4 7/8"	1UDR3

Size	Item No.
Proto 6-Point Standard - SAE	
1 3/4"	4UHL8
1 7/8"	10E407
2"	4UHL9
2 1/8"	4UHN1
2 1/4"	4UHN2
2 3/8"	10E408
2 1/2"	10E409
2 9/16"	10E410
2 5/8"	10E411
2 3/4"	10E412
2 7/8"	10E413
2 15/16"	4UHN3
3"	4UHN4
3 1/8"	4UHN5
3 3/8"	4UHN7
3 7/16"	10E414
3 1/2"	4UHN8
3 5/8"	10E415

Size	Item No.
3 3/4"	4PKD6
3 7/8"	4UHN9
4"	4UHP1
4 1/8"	10E416
4 1/4"	4UHP2
4 3/8"	4UHP3
4 1/2"	4UHP4
4 5/8"	4PKD7
4 3/4"	10E417
4 7/8"	4UHP5
5"	4UHJ5
5 1/8"	4UHJ4
5 1/4"	4UHP6
5 3/8"	4UHJ3
5 7/16"	10E418
5 1/2"	4UHJ1
5 5/8"	4UHJ2
5 3/4"	4UHP7
5 7/8"	10E419

Size	Item No.
6"	10E420
6 1/8"	4PKD8
6 1/4"	4PKD9
6 3/8"	10E421
6 1/2"	10E422
6 5/8"	10E423
6 3/4"	10E424
6 7/8"	4UHP8
7"	10E425
7 1/8"	10E426
7 1/4"	10E427
7 3/8"	10E428
7 1/2"	4PKE1
7 5/8"	10E429
7 3/4"	10E430
7 7/8"	10E431
8"	10E432

PROTO®

2½"-Drive Impact Sockets and Accessories



No. 4UHL9

PROTO®

Spline Impact Sockets and Accessories

Size/Description	Overall Length	Item No.
Proto - #5 Spline Drive Impact Socket Accessories		
#5 Spline F x 1" Square M Adapter	4 3/8"	1AKF7
1" Square F x #5 Spline M Adapter	4 1/2"	1ACT2
1 1/2" M Square x #5 F Spline Impact Socket Adapter	5"	1AKF8

Size	Overall Length	Item No.
Proto 6-Point Standard - #5 Spline SAE		
1 1/8"	3 1/4"	1AKH3
1 1/4"	3 1/4"	1AKH5
1 7/16"	3 3/8"	1AKH8
1 1/2"	3 3/8"	1AKH9
1 9/16"	3 1/2"	1AKK0
1 5/8"	3 5/8"	1AKK1
1 11/16"	3 5/8"	1AKK2
1 13/16"	3 7/16"	1AKK4
1 7/8"	3 17/32"	1AKK5
2"	3 17/32"	1AKK7
2 1/16"	3 17/32"	1AKK8

Size	Overall Length	Item No.
2 1/8"	4"	1AKK9
2 3/16"	3 11/16"	1AKL0
2 3/8"	3 57/64"	1AKL3
2 7/16"	4"	4UHJ6
2 1/2"	4 3/8"	1AKL5
2 9/16"	4 3/8"	1AKL6
2 5/8"	4 1/2"	1AKL7
2 3/4"	4 1/4"	1AKL8
2 15/16"	4 13/16"	1AKM0
3"	4 39/64"	1AKM1
3 1/8"	4 39/64"	1AKM2



No. 4UHJ6







WESTWARD® PROTO®

Electronic Torque Wrenches

Westward®
- Calibrated to ±2% CW and ±3% CCW
- 8 green warning lights, 4 red stop lights, and an audible buzzer when target torque is approached
- Angle accuracy ±2°

Proto®
- Calibrated to ±2% of indicated value CW and CCW
- Red/green/yellow lights and audible beep when target torque is approached

Drive Size	Head Type	Torque Range (ft.-lb.)	Torque Range (in.-lb.)	Torque Range (Nm)	Torque Range (kg-cm)	Graduations (ft.-lb.)	Graduations (in.-lb.)	Graduations (Nm)	Graduations (kg cm)	Overall Length	Calibration Certificate Included	Brand	Item No.
Electronic													
¼ in	Standard	0.44 ft-lb to 8.85 ft-lb	5.3 in-lb to 106.2 in-lb	0.6 N-m to 12 N-m	6.1 to 122.4	0.01	0.1	0.01	0.1	8 ½ in	Yes	Westward	**6PAE8**
¼ in	Standard	1.11 ft-lb to 22.12 ft-lb	13.3 in-lb to 265.5 in-lb	1.5 N-m to 30 N-m	15.3 to 306.1	0.01	0.1	0.01	0.1	15 ½ in	Yes, NIST, TAF	Westward	**6PAF6**
¼ in	Standard	1.11 ft-lb to 22.12 ft-lb	13.3 in-lb to 265.5 in-lb	1.5 N-m to 30 N-m	15.3 to 306.1	0.01	0.1	0.01	0.1	15 ⅜ in	Yes	Westward	**4RYL2**
¼ in	Standard	2.1 ft-lb to 20.8 ft-lb	25 in-lb to 250 in-lb	2.8 N-m to 28.2 N-m	29 to 288	0.1	0.1	0.01	0.1	20 ½ in	Yes	Proto	**36WX46**
¼ in	Flexible	1.11 ft-lb to 22.12 ft-lb	13.3 in-lb to 265.5 in-lb	1.5 N-m to 30 N-m	15.3 to 306.1	0.01	0.1	0.01	0.1	15 ½ in	Yes, NIST, TAF	Westward	**39WE18**
¼ in	Flexible	1.1 ft-lb to 22 ft-lb	13.2 in-lb to 264 in-lb	1.5 N-m to 30 N-m	15.3 to 306.1	0.01	0.1	0.01	0.1	15 ½ in	Yes	Proto	**53JT49**
⅜ in	Interchangeable Ratcheting	5 to 99.5	60 to 1195	6.8 to 135	69 to 1378	0.1	1	0.1	1	16 5⁄16 in	Yes, NIST, TAF	Westward	**6PAF7**
⅜ in	Standard	5 ft-lb to 99.5 ft-lb	60 in-lb to1195 in-lb	6.8 N-m to 135 N-m	69 to 1378	0.1	1	0.1	1	16 ⅜ in	Yes	Westward	**4RYL3**
⅜ in	Standard	5 ft-lb to 99 ft-lb	60 in-lb to 1188 in-lb	6.8 N-m to 135 N-m	69 to 1378	0.1	1	0.1	1	16 ¼ in	Yes	Proto	**53JT45**
⅜ in	Flexible	5 ft-lb to 99 ft-lb	60 in-lb to 1188 in-lb	6.8 N-m to 135 N-m	69 to 1378	0.1	1	0.1	1	16 ¾ in	Yes	Proto	**53JT46**
⅜ in	Standard	5 ft-lb to 99 ft-lb	60 in-lb to 1195 in-lb	6.8 N-m to 135 N-m	69 to 1378	0.1	1	0.1	1	16 ½ in	Yes	Proto	**53JT47**
½ in	Standard	12.5 ft-lb to 250.7 ft-lb	150 in-lb to 3009 in-lb	17 N-m to 340 N-m	173 to 3469	0.1	1	0.1	1	25 ⅝ in	Yes	Westward	**4RYL8**
½ in	Interchangeable Ratcheting	12.5 to 250.7	150 to 3009	17 to 340	173 to 3469	0.1	1	0.1	1	25 ⅝ in	Yes, NIST, TAF	Westward	**6PAG0**
½ in	Flexible	12.5 ft-lb to 250 ft-lb	150 in-lb to 3000 in-lb	17 N-m to 340 N-m	173 to 3469	0.1	1	0.1	1	25 ¾ in	Yes	Proto	**53JT52**
½ in	Standard	12.5 ft-lb to 250 ft-lb	150 in-lb to 3000 in-lb	17 N-m to 340 N-m	173 to 3469	0.1	1	0.1	1	25 ½ in	Yes	Proto	**53JT51**
¾ in	Standard	31 ft-lb to 626.8 ft-lb	376 in-lb to7521 in-lb	42.5 N-m to 850 N-m	434 to 8674	0.1	1	0.1	1	48 in	Yes, NIST, TAF	Westward	**39WE12**
¾ in	Standard	30 ft-lb to 600 ft-lb	360 in-lb to 7200 in-lb	0 N-m to 18 N-m	414.76 to 8295.30	0.1	1	0.1	1	48 in	Yes	Proto	**53JT55**
1 in	Standard	55 ft-lb to 1106 ft-lb	—	75 N-m to 1500 N-m	—	1	—	1	—	70 ⅞ in	Yes, NIST, TAF	Westward	**39WE11**
Electronic, Torque and Angle													
⅜ in	Flexible	5 ft-lb to 99.5 ft-lb	60 to 1195	6.8 N-m to 135 N-m	69 to 1378	0.1	1	0.1	1	16 ¾ in	Yes	Westward	**6PAG1**
½ in	Flexible	12.5 ft-lb to 250.7 ft-lb	150 to 3009	17 N-m to 340 N-m	173 to 3469	0.1	1	0.1	1	26 in	Yes	Westward	**6PAG2**



Sturtevant Richmont® Torque Measurement Systems

Flat Beam Torque Wrenches

These wrenches are used for applications where: the ability to visually confirm that the tool is correct before each use is important; the user can see the faceplate of the tool; greater accuracy than that provided by clicker torque wrenches is desired; it is important to know torque variation during rundown; the need for durability is extremely high; there is a destructive nature to the application; or capturing peak torque is important. Pivoted handle concentrates load at a precise point on lever to assure torque accuracy. Memory feature consists of pointers that follow a track on the scale and remain in place to indicate peak torque achieved. Peak torque indicated on scale is accurate even in destructive applications. Meet or exceed requirements of ASME B107.300-2010 and ISO 6789.

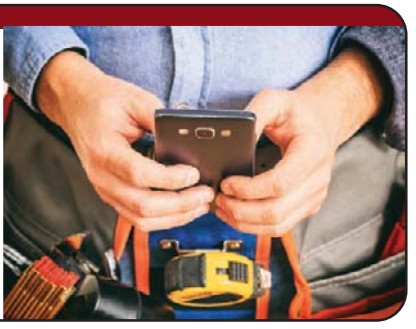
Drive Size	Primary Scale Range	Head Type	Rotation	Handle Material	Handle Type	Calibration Certificate Included	Item No.
½ in	0 in-lb to 600 in-lb	Standard	Clockwise and Counterclockwise	Alloy Steel	Ergonomic	Yes	**36WD40**
	0 N-m to 210 N-m						**36WD42**
⅜ in	0 N-m to 12 N-m						**36WD41**

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Drive Size	Primary Scale Increments	Primary Scale Range	Overall Length	Calibration Certificate Included	Brand	Mfr. Model	Item No.
Aerospace Certified Micrometer Torque Wrenches							
Foot-Pound, Fixed Head							
3/8"	0.5 ft.-lb.	16 to 80 ft.-lb.	14 23/32"	Yes	Proto	J6005C	426F01
	0.5 ft.-lb.	16 to 80 ft.-lb.	15 1/32"	Yes	Proto	J6006C	426F02
	0.5 ft.-lb.	20 to 100 ft.-lb.	16 17/32"	Yes	Proto	J6012C	426F06
	0.5 ft.-lb.	20 to 100 ft.-lb.	16 17/32"	Yes	Proto	J6012C	426F06
1/2"	0.5 ft.-lb.	16 to 80 ft.-lb.	15 1/32"	No	Proto	J6008C	426F05
	1 ft.-lb.	30 to 150 ft.-lb.	20 9/32"	Yes	Proto	J6015C	426F11
	1 ft.-lb.	30 to 150 ft.-lb.	20 43/64"	No	Proto	J6016C	426F12
	1 ft.-lb.	50 to 250 ft.-lb.	25 55/64"	Yes	Proto	J6013C	426F07
	1 ft.-lb.	50 to 250 ft.-lb.	26 17/64"	Yes	Proto	J6014C	426F08
3/4"	2 ft.-lb.	60 to 300 ft.-lb.	32 3/4"	Yes	Proto	J6018AB	426F16
	2 ft.-lb.	120 to 600 ft.-lb.	41 5/32"	Yes	Proto	J6017B	426F15
	2 ft.-lb.	120 to 600 ft.-lb.	41 17/32"	Yes	Proto	J6020AB	426F17
1"	2 ft.-lb.	140 to 700 ft.-lb.	46 57/64"	Yes	Proto	J6022B	426F19
Inch-Pound, Fixed Head							
1/4"	1 in.-lb.	40 to 200 in.-lb.	11 13/64"	Yes	Proto	J6061C	426F20
	1 in.-lb.	40 to 200 in.-lb.	11 21/64"	No	Proto	J6062C	426F21
3/8"	1 in.-lb.	40 to 200 in.-lb.	11 13/64"	Yes	Proto	J6063C	426F22
	1 in.-lb.	40 to 200 in.-lb.	11 21/64"	No	Proto	J6064C	426F23
	5 in.-lb.	200 to 1000 in.-lb.	14 41/64"	Yes	Proto	J6065C	426F24
	5 in.-lb.	200 to 1000 in.-lb.	14 15/16"	No	Proto	J6066C	426F25
1/2"	10 in.-lb.	360 to 1800 in.-lb.	20 43/64"	Yes	Proto	J6068C	426F26
	10 in.-lb.	600 to 3000 in.-lb.	27 1/8"	No	Proto	J6072C	426F27
Micrometer Torque Wrenches							
Foot-Pound, Fixed Head							
3/8"	0.5 ft.-lb.	15 to 75 ft.-lb.	15 13/64"	Yes	Sturtevant Richmont	3 SDR 75 MG	53CA71
	0.5 ft.-lb.	16 to 80 ft.-lb.	15 1/2"	Yes	Proto	J6006CXCERT	4YA67
1/2"	0.5 ft.-lb.	16 to 80 ft.-lb.	15 1/2"	Yes	Proto	J6008CXCERT	4YA68
	1 ft.-lb.	30 to 150 ft.-lb.	21 1/2"	Yes	Proto	J6016CXCERT	4YA69
	1 ft.-lb.	30 to 150 ft.-lb.	19 1/2"	Yes	Sturtevant Richmont	4 SDR 150 MG	53CA72
	2 ft.-lb.	50 to 250 ft.-lb.	25 1/2"	Yes	Sturtevant Richmont	4 SDR 250 MG	53CA73
3/4"	2 ft.-lb.	60 to 300 ft.-lb.	32 1/16"	Yes	Proto	J6018CXCERT	4YA71
	2 ft.-lb.	120 to 600 ft.-lb.	41 9/16"	Yes	Proto	J6020CXCERT	4YA72
1"	5 ft.-lb.	200 to 1000 ft.-lb.	69"	No	Proto	J6023	10877
	10 ft.-lb.	400 to 2000 ft.-lb.	107 1/2"	No	Proto	J6025	1ARN7
Foot-Pound, Flexible Head							
3/8"	10 ft.-lb.	10 to 100 ft.-lb.	16 45/64"	Yes	Proto	J6012FC	53GL75
1/2"	10 ft.-lb.	30 to 250 ft.-lb.	25 13/32"	Yes	Proto	J6014FC	53GL74
Foot-Pound, Newton-Meter, Fixed Head							
3/8"	2 lb.	6 to 44 ft.-lb.	14"	No	Jameson/Itl	01785	31CE79
	0.5 ft.-lb.	15 to 80 ft.-lb.	16"	Yes	Westward	—	6PAH9
	0.5 Nm	16 to 80 Nm	15 1/32"	Yes	Proto	J6006NMC	426F04
1/2"	1 ft.-lb.	30 to 150 ft.-lb.	19 1/2"	Yes	Westward	—	6PAJ0
	1 Nm	40 to 200 Nm	20 43/64"	Yes	Proto	J6016NMC	426F14
	1 ft.-lb.	50 to 250 ft.-lb.	27 1/8"	Yes	Proto	J6014CXCERT	4YA70
	1 ft.-lb.	50 to 250 ft.-lb.	24 1/2"	Yes	Westward	—	6PAJ1
	1 Nm	70 to 350 Nm	26 17/64"	Yes	Proto	J6014NMC	426F10
3/4"	2 ft.-lb.	60 to 300 ft.-lb.	32"	Yes	Westward	—	10L423
	5 Nm	80 Nm to 360 Nm	28 7/32"	Yes	Gedore	8575-10	45HL90
	10 Nm	108.4 Nm to 542.3 Nm	31 31/32"	Yes	Gedore	8579-10	45HL92
	10 Nm	110 Nm to 550 Nm	31 31/32"	Yes	Gedore	8574-10	45HL91
	10 Nm	135.6 Nm to 759.3 Nm	31 31/32"	Yes	Gedore	8563-10	45HL93
	10 Nm	520 Nm to 1000 Nm	55 5/8"	Yes	Gedore	8571-01	45HL94
Inch-Pound, Fixed Head							
1/4"	1 in.-lb.	10 to 50 in.-lb.	9 1/2"	No	Proto	J6060A	4LV09
	1 in.-lb.	10 to 50 in.-lb.	11 13/64"	Yes	Sturtevant Richmont	2 SDR 50I MG	53CA69
	1 in.-lb.	40 to 200 in.-lb.	11 3/8"	Yes	Proto	J6062CXCERT	4YA63
	1 in.-lb.	40 to 200 in.-lb.	11 1/16"	Yes	Proto	J6061CXCERT	4YA73
	1 in.-lb.	40 to 200 in.-lb.	11 3/8"	Yes with Data	Proto	J6062HTC	54JG06
3/8"	1 in.-lb.	40 to 200 in.-lb.	11 7/8"	Yes	Proto	J6064CXCERT	4YA64
	1 in.-lb.	40 to 200 in.-lb.	11 1/16"	Yes	Proto	J6063CXCERT	4YA74
	2 in.-lb.	40 to 200 in.-lb.	10 45/64"	Yes	Sturtevant Richmont	3 SDR 200I MG	53CA74
	1 in.-lb.	40 to 200 in.-lb.	11 3/8"	Yes with Data	Proto	J6064HTC	54JG07
	5 in.-lb.	150 to 750 in.-lb.	15 13/64"	Yes	Sturtevant Richmont	3 SDR 750I MG	53CA70
	5 in.-lb.	200 to 1000 in.-lb.	15 1/2"	Yes	Proto	J6066CXCERT	4YA65
	5 in.-lb.	200 to 1000 in.-lb.	15 3/16"	Yes	Proto	J6065CXCERT	4YA75
7/16"	Preset	30 in.-lb.	6 1/2"	No	Jonard Tools	TWAF-71630	4AVJ9
1/2"	10 in.-lb.	600 to 3000 in.-lb.	27 1/8"	Yes	Proto	J6072CXCERT	4YA66
Inch-Pound, Newton-Meter, Fixed Head							
3/8"	1 in.-lb.	40 to 200 in.-lb.	11 1/2"	Yes	Westward	—	10L419
Newton-Meter, Fixed Head							
1/4"	0.1 Nm	2 to 10 Nm	7 21/64"	Yes	Gedore	762-10	49AD70
3/8"	0.2 Nm	4 to 20 Nm	11 29/32"	Yes	Sturtevant Richmont	3 SDR 20 Nm MG	53CA75
	0.5 Nm	16 to 80 Nm	15 1/32"	Yes	Proto	J6006MC	426F03
1/2"	1 Nm	40 to 200 Nm	20 43/64"	Yes	Proto	J6016MC	426F13
	1 Nm	70 to 350 Nm	26 17/64"	Yes	Proto	J6014MC	426F09
3/4"	4 Nm	160 to 800Nm	41 17/32"	Yes	Proto	J6020NM	426F18
1"	25 Nm	600 to 1500 Nm	63 19/64"	Yes	Gedore	8581-01	45HL95

PROTO® · Sturtevant Richmont® Torque Measurement Systems · JAMESON · WESTWARD · GEDORE · JONARD TOOLS

Micrometer Torque Wrenches

- Torque Wrench Repair Kits are available on Grainger.com®



No. 426F08



No. 53CA71



No. 45HL90

REGISTER NOW!

Enjoy These Features & More!

- ☑ **Access** your pricing
- ☑ **View** order history
- ☑ **Save favorites** to your personal lists
- ☑ **Check real-time** product availability



> Sign in or register on **Grainger.com®** today!

Drive Size	Primary Scale Range	Overall Length	Calibration Certificate Included	Brand	Mfr. Model	Item No.
Inch-Pound, Newton-Meter, Fixed Head						
1/4"	5 to 25 Nm	8 1/2"	Yes	Gedore	759-00	49AD71
Inch-Pound, Fixed Head						
1/4"	50 in.-lb.	7 5/16"	No	Sturtevant Richmont	810400	36WD69
	150 in.-lb.	7 1/16"	No	Sturtevant Richmont	810401	36WD70
3/8"	60 to 300 in.-lb.	10 1/16"	No	Sturtevant Richmont	810058	36WD67
	150 in.-lb.	7 7/8"	No	Sturtevant Richmont	810589	36WD72
	750 in.-lb.	14 3/16"	No	Sturtevant Richmont	810055	36WD66
1/2"	3000 in.-lb.	22 1/8"	No	Sturtevant Richmont	810059	36WD68
Foot-Pound, Newton-Meter, Fixed Head						
3/8"	15 to 55 Nm	12 3/4"	Yes	Gedore	759-02	49AD73
1/2"	40 to 125 Nm	18 1/8"	Yes	Gedore	759-03	49AD74
Accessory						
	Combination Adjust Release Tool			Sturtevant Richmont	819117	36WD75

GEDORE · Sturtevant Richmont® Torque Measurement Systems



No. 36WD66



No. 49AD74

Preset Micrometer Torque Wrenches

These wrenches are used to set a torque or fasteners. A range of different torque setting can be applied for many different applications. Torque may be preset using any torque units of measurement. Minimum capacities of preset tools can be calculated at 20% of maximum capacities. No. 36WD75 must be used to set torque.



No. 4NAH8



No. 4NAJ1



No. 4NAJ3

Drive Size	Torque Range (ft.-lb.)	Torque Range (in.-lb.)	Torque Range (Nm)	Graduations (ft.-lb.)	Graduations (in.-lb.)	Graduations (Nm)	Overall Length	Calibration Certificate Included	Mfr. Model	Item No.
¼"	0.63 to 6.25	7.5 to 75	0.84 to 8.47	0.01	0.01	0.01	11"	Yes	J6339	**4NAH6**
¼"	0.83 to 8.33	10 to 100	1.11 to 11.13	0.01	0.01	0.01	11"	Yes	J6342	**4NAH7**
⅜"	2.1 to 20.8	25 to 250	2.8 to 28.2	0.01	0.1	0.01	11"	Yes	J6345	**4NAH8**
⅜"	5 to 50	60 to 600	6.78 to 67.8	0.01	0.1	0.01	11"	Yes	J6345A	**4NAH9**
½"	10 to 100	120 to 1200	13.3 to 133.5	0.01	1	1	22"	Yes	J6345B	**4NAJ1**
½"	25 to 250	300 to 3000	33.8 to 338	0.1	1	0.1	22"	Yes	J6346	**4NAJ2**
¾"	60 to 600	720 to 7200	81 to 813	0.1	1	0.1	22"	Yes	J6347	**4NAJ3**
1"	100 to 1000	—	135 to 1350	1	—	1	77"	Yes	J6349	**4XRJ3**
1"	200 to 2000	—	267 to 2670	1	—	1	125"	Yes	J6351	**4NAJ4**

FIND MORE ONLINE
Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!

Electronic Dial Torque Wrenches

PROTO®

- 4-digit display
- Molded case included
- Accurate to ±1% CW and CCW from 10% to 100% of full scale
- Red/yellow/green lights and intermittent beep when adjustable target torque is reached Meet ASME B107.28.



No. 1ARP7



No. 4NAH5

Dial Torque Wrenches

PROTO®

- Calibrated to ±4% of CW and CCW
- Molded case included

Drive Size	Primary Scale Range	Secondary Scale Range	Primary Scale Increments	Secondary Scale Increments	Extension Handles	Overall Length	Calibration Certificate Included	Mfr. Model	Item No.
Inch-Pound/Centimeter-Kilogram									
¼"	0 to 75 in.-lb.	0 to 90 cm kg	1 in.-lb.	2 cm kg	No	10"	No	J6169F	**1ARP7**
¼"	15 to 75 in.-lb.	18 to 90 cm kg	1 in.-lb.	2 cm kg	No	10"	Yes	J6169FCERT	**4JW71**
¼"	6 to 30 in.-lb.	0 to 35 cm kg	0.5 in.-lb.	1 cm kg	No	10"	No	J6168F	**4NAH5**
⅜"	50 to 250 in.-lb.	56 to 280 cm kg	5 in.-lb.	5 cm-kg	No	10"	No	J6177F	**1ARP8**
⅜"	120 to 600 in.-lb.	140 To 700 cm kg	10 in.-lb.	20 cm kg	No	10"	No	J6181F	**1ARP9**
Inch-Pound/Newton-Meter									
¼"	18 to 90 in.-lb.	2 to 10 Nm	1 in.-lb.	0.2 Nm	No	10"	No	J6169NMF	**1ARR8**
⅜"	0 to 30 Nm	0 to 250 in.-lb.	0.5 Nm	5 in.-lb.	No	10"	Yes, NIST with Data	J6177NMFCERT	**4JW74**
⅜"	6 to 30 Nm	50 to 250 in.-lb.	0.5 Nm	5 in.-lb.	No	10"	No	J6177NMF	**1ARR9**
Foot-Pound/Meter-Kilogram									
⅜"	0 to 50 ft.-lb.	0 to 7 m kg	1 ft.-lb.	0.2 m-kg	No	10¼"	No	J6113F	**1ARR0**
½"	0 to 175 ft.-lb.	0 to 24 m kg	5 ft.-lb.	0.5 m-kg	No	21½"	No	J6121F	**1ARR1**
½"	0 to 250 ft.-lb.	0 to 35 m kg	5 ft.-lb.	1 m kg	No	21½"	No	J6125F	**1ARR2**
¾"	0 to 350 ft.-lb.	—	10 ft.-lb.	—	No	27⅞"	No	J6134F	**4XRJ2**
¾"	120 to 600 ft.-lb.	0 to 80 m kg	10 ft.-lb.	2 m kg	Yes	46½"	No	J6133F	**1ARR5**
1"	0 to 1000 ft.-lb.	0 to 140 m kg	20 ft.-lb.	2.5 m kg	Yes	74¼"	No	J6141F	**1ARR6** †
1"	0 to 2000 ft.-lb.	0 to 280 m kg	40 ft.-lb.	5 m kg	Yes	110¾"	No	J6149F	**1ARR7**
Foot-Pound/Newton-Meter									
⅜"	0 to 50 ft.-lb.	0 to 70 Nm	1 ft.-lb.	2 Nm	No	14⅞"	No	J6113NMF	**1ART0**
½"	0 to 175 ft.-lb.	0 to 250 Nm	5 ft.-lb.	5 Nm	No	21½"	No	J6121NMF	**1ART1**

† Packaged in steel box.



No. 53CA65



No. 49AD77



No. 4NAN4

Interchangeable Head Torque Wrenches

Sturtevant Richmont® Torque Measurement Systems

PROTO® GEDORE

Drive Size	Primary Scale Range	Primary Scale Increments	Overall Length	Calibration Certificate Included	Brand	Item No.
—	100 to 600 in.-lb.	5.0 in.-lb.	13 3/16"	Yes	Sturtevant Richmont	**53CA65**
—	10 to 50 in.-lb.	1.0 in.-lb.	10 7/64"	Yes	Sturtevant Richmont	**53CA66**
—	15 to 75 ft.-lb.	0.5 ft.-lb.	13 3/16"	Yes	Sturtevant Richmont	**53CA67**
—	30 to 150 ft. -lb.	1.0 ft.-lb.	17 7/64"	Yes	Sturtevant Richmont	**53CA68**
¼"	25 to 250 in.-lb.	1 in.-lb.	14"	Yes	Proto	**4NAN9**
½" x 1⅛"	360 to 1800 in.-lb.	Custom Preset	15 15/16"	No	Sturtevant Richmont	**36WD73**
½" x ¾"	60 to 300 in.-lb.	Custom Preset	8 13/16"	No	Sturtevant Richmont	**36WD74**
9mm x 12mm	8 to 40 Nm	5 Nm	14 7/32"	Yes	Gedore	**45HL98**
9mm x 12mm	20 to 120 Nm	5 Nm	19 3/32"	Yes	Gedore	**45HL99**
9mm x 12mm	0.4 to 2 Nm	Preset	4⅛"	Yes	Gedore	**49AD75**
9mm x 12mm	2 to 10 Nm	Preset	4⅛"	Yes	Gedore	**49AD76**
9mm x 12mm	5 to 25 Nm	Preset	10½"	Yes	Gedore	**49AD77**
9mm x 12mm	13 to 65 Nm	Preset	11 3/32"	Yes	Gedore	**49AD78**
9mm x 12mm	27 to 135 Nm	Preset	16"	Yes	Gedore	**49AD79**
14mm x 18mm	50 to 400 Nm	5 Nm	25 45/64"	Yes	Gedore	**45HM01**
H4	10 to 50 ft.-lb.	0.5 ft.-lb.	11"	No	Proto	**4NAP2**
H4	50 to 150 in.-lb.	1 in.-lb.	6"	No	Proto	**4NAN4**
H5	10 to 100 ft.-lb.	0.10 ft.-lb.	16½"	Yes	Proto	**4NAP3**
H5	16 to 80 ft.-lb.	0.5 ft.-lb.	14¾"	No	Proto	**4NAW4**
H5	45 to 150 ft.-lb.	1.0 ft.-lb.	19¼"	No	Proto	**4NAR6**
H7	300 to 3000 in.-lb.	1 in.-lb.	20"	Yes	Proto	**4NAZ9**
H7	50 to 250 ft.-lb.	1.0 ft.-lb.	25 13/32"	No	Proto	**4NAW5**

Adding an Adapter to a Torque Wrench

Length (L) = Effective length of the wrench as described below.

Dial Wrenches = The measured distance from the center of the square drive to the center ring or notch on the handle.

Micrometer Wrenches = The measured length from the center of the square drive to the center of the handle, with the wrench set at the desired torque reading.

Desired Torque (TA) = The torque value designated for the fastener with or without an adapter.

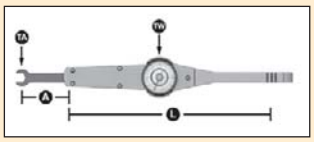
Added Length of Adapter (A) = The measured length from the center of the adapter drive to the center of the wrench square drive.

New Setting (TW) = The torque setting on the wrench allowing for the added length of the adapter. This reading will be lower than the desired torque.

Example: 250 ft. lb. Dial wrench using a 2" long crowfoot adapter.

L = Effective Length: 18.75"
Desired Torque = 250 ft. lb.
Length of Adapter = 2"
Result: 18.75" x 250 ft. lb. = Pull wrench

to 226 ft. lb.
18.75" + 2"



Use of Adapter

Formula: $\frac{TA \times L}{L + A} = TW$



H5 Open End
No. 4NAU5



H5 Square Drive
No. 4NAW3



H4 Box End
No. 4NAK8



H4 Open End
No. 4NAK7

Interchangeable Torque Wrench Heads

PROTO® ★ WESTWARD® Sturtevant Richmont® Torque Measurement Systems

Size	Overall Length	Max. Torque	Brand	Item No.
H7 Drive				
Box End				
9/16"	5 1/32"	1340 in.-lb.	Proto	4NAX5
5/8"	5 13/32"	2050 in.-lb.	Proto	4NAY3
11/16"	5 7/16"	2400 in.-lb.	Proto	4NAY9
3/4"	5 1/2"	2630 in.-lb.	Proto	4NAZ6
13/16"	5 17/32"	3295 in.-lb.	Proto	4RUC8
7/8"	5 9/16"	3600 in.-lb.	Proto	4RUD5
15/16"	5 5/8"	3600 in.-lb.	Proto	4RUE2
1"	5 11/16"	3600 in.-lb.	Proto	4RUE8
1 1/16"	5 23/32"	3600 in.-lb.	Proto	4RUF5
1 1/8"	5 3/4"	3600 in.-lb.	Proto	4RUF9
1 3/16"	5 13/16"	3600 in.-lb.	Proto	4RUG2
1 1/4"	5 27/32"	3600 in.-lb.	Proto	4RUG4
1 5/16"	5 29/32"	3600 in.-lb.	Proto	4RUG6
1 3/8"	5 15/16"	3600 in.-lb.	Proto	4RUG8
15mm	5 3/8"	1770 in.-lb.	Proto	4NAW8
16mm	5 13/32"	2050 in.-lb.	Proto	4NAX1
17mm	5 7/16"	2365 in.-lb.	Proto	4NAX3
18mm	5 15/32"	2690 in.-lb.	Proto	4NAX7
19mm	5 1/2"	2630 in.-lb.	Proto	4NAX9
20mm	5 17/32"	3070 in.-lb.	Proto	4NAY5
21mm	5 17/32"	3295 in.-lb.	Proto	4NAY7
22mm	5 9/16"	3600 in.-lb.	Proto	4NAZ2
23mm	5 5/8"	3600 in.-lb.	Proto	4NAZ4
24mm	5 5/8"	3600 in.-lb.	Proto	4NAZ8
25mm	5 11/16"	3600 in.-lb.	Proto	4RUC6
26mm	5 11/16"	3600 in.-lb.	Proto	4RUD1
28mm	5 23/32"	3600 in.-lb.	Proto	4RUD7
29mm	5 3/4"	3600 in.-lb.	Proto	4RUD9
30mm	5 13/16"	3600 in.-lb.	Proto	4RUE4
32mm	5 27/32"	3600 in.-lb.	Proto	4RUF1
Open End				
9/16"	5 3/8"	695 in.-lb.	Proto	4NAX4
5/8"	5 13/32"	835 in.-lb.	Proto	4NAY1
11/16"	5 7/16"	1185 in.-lb.	Proto	4NAY8
3/4"	5 1/2"	1500 in.-lb.	Proto	4NAZ5
13/16"	5 17/32"	1965 in.-lb.	Proto	4RUC7
7/8"	5 9/16"	2470 in.-lb.	Proto	4RUD4
15/16"	5 5/8"	2970 in.-lb.	Proto	4RUE1
1"	5 21/32"	3575 in.-lb.	Proto	4RUE7
1 1/16"	5 23/32"	3600 in.-lb.	Proto	4RUF4
1 1/8"	5 25/32"	3600 in.-lb.	Proto	4RUF8
1 3/16"	5 27/32"	3600 in.-lb.	Proto	4RUG1
1 1/4"	5 27/32"	3600 in.-lb.	Proto	4RUG3
1 5/16"	5 29/32"	3600 in.-lb.	Proto	4RUG5
1 3/8"	5 15/16"	3600 in.-lb.	Proto	4RUG7
15mm	5 3/8"	885 in.-lb.	Proto	4NAW7
16mm	5 13/32"	1060 in.-lb.	Proto	4NAW9
17mm	5 7/16"	1235 in.-lb.	Proto	4NAX2
18mm	5 15/32"	1375 in.-lb.	Proto	4NAX6
19mm	5 1/2"	1650 in.-lb.	Proto	4NAX8
20mm	5 1/2"	1925 in.-lb.	Proto	4NAY4
21mm	5 17/32"	2160 in.-lb.	Proto	4NAY6
22mm	5 9/16"	2470 in.-lb.	Proto	4NAZ1
23mm	5 5/8"	2745 in.-lb.	Proto	4NAZ3
24mm	5 5/8"	2970 in.-lb.	Proto	4NAZ7
25mm	5 21/32"	3200 in.-lb.	Proto	4NCA2
26mm	5 21/32"	3570 in.-lb.	Proto	4RUC9
27mm	5 23/32"	3600 in.-lb.	Proto	4RUD2
28mm	5 23/32"	3600 in.-lb.	Proto	4RUD6
29mm	5 25/32"	3600 in.-lb.	Proto	4RUD8
30mm	5 27/32"	3600 in.-lb.	Proto	4RUE3
32mm	5 27/32"	3600 in.-lb.	Proto	4RUE9
Square Ratcheting				
1/2"	5 7/8"	3000 in.-lb.	Proto	4NAW6
H5 Drive				
Box End				
7/16"	3 23/32"	715 in.-lb.	Proto	4NAR3
1/2"	3 3/4"	900 in.-lb.	Proto	4NAT1
9/16"	3 25/32"	1340 in.-lb.	Proto	4NAT7
5/8"	3 27/32"	2050 in.-lb.	Proto	4NAU4
11/16"	3 7/8"	2400 in.-lb.	Proto	4NAV1
3/4"	3 15/16"	2400 in.-lb.	Proto	4NAV7
13/16"	3 31/32"	2400 in.-lb.	Proto	4NAV9
7/8"	4"	2400 in.-lb.	Proto	4NAW2
11mm	3 23/32"	715 in.-lb.	Proto	4NAP6
12mm	3 23/32"	805 in.-lb.	Proto	4NAP8
13mm	3 3/4"	900 in.-lb.	Proto	4NAR1
14mm	3 25/32"	1340 in.-lb.	Proto	4NAR5
15mm	3 13/16"	1770 in.-lb.	Proto	4NAR8
16mm	3 27/32"	2050 in.-lb.	Proto	4NAT3
17mm	3 7/8"	2400 in.-lb.	Proto	4NAT5
18mm	3 29/32"	2400 in.-lb.	Proto	4NAT9
19mm	3 15/16"	2400 in.-lb.	Proto	4NAU2
20mm	3 31/32"	2400 in.-lb.	Proto	4NAU6
Open End				
7/16"	3 21/32"	310 in.-lb.	Proto	4NAR2
1/2"	3 3/4"	410 in.-lb.	Proto	4NAR9
9/16"	3 13/16"	695 in.-lb.	Proto	4NAT6
5/8"	3 27/32"	835 in.-lb.	Proto	4NAU3
11/16"	3 7/8"	1185 in.-lb.	Proto	4NAU9
3/4"	3 15/16"	1500 in.-lb.	Proto	4NAV6
13/16"	3 31/32"	2310 in.-lb.	Proto	4NAV8
7/8"	4"	2310 in.-lb.	Proto	4NAW1
11mm	3 11/16"	400 in.-lb.	Proto	4NAP5
12mm	3 23/32"	430 in.-lb.	Proto	4NAP7
13mm	3 3/4"	495 in.-lb.	Proto	4NAP9
14mm	3 13/16"	695 in.-lb.	Proto	4NAR4
15mm	3 13/16"	885 in.-lb.	Proto	4NAR7
16mm	3 27/32"	1060 in.-lb.	Proto	4NAT2
17mm	3 7/8"	1235 in.-lb.	Proto	4NAT4
18mm	3 29/32"	1375 in.-lb.	Proto	4NAT8
19mm	3 15/16"	1650 in.-lb.	Proto	4NAU1
20mm	3 15/16"	1925 in.-lb.	Proto	4NAU5
21mm	3 31/32"	2160 in.-lb.	Proto	4NAU7
22mm	4"	2400 in.-lb.	Proto	4NAV2
23mm	4 1/16"	2400 in.-lb.	Proto	4NAV4
Square Ratcheting				
3/8"	4 3/32"	1200 in.-lb.	Proto	4NAW3
H4 Drive				
Box End				
3/8"	3 1/32"	490 in.-lb.	Proto	4NAL3
7/16"	3 1/16"	715 in.-lb.	Proto	4NAL9
1/2"	3 1/8"	900 in.-lb.	Proto	4NAN6
9/16"	3 5/32"	900 in.-lb.	Proto	4NAN8
10mm	3 1/32"	490 in.-lb.	Proto	4NAK8
11mm	3 1/16"	715 in.-lb.	Proto	4NAL1
12mm	3 3/32"	805 in.-lb.	Proto	4NAL5
13mm	3 1/8"	900 in.-lb.	Proto	4NAL7
14mm	3 5/32"	900 in.-lb.	Proto	4NAN2
Open End				
3/8"	3 1/16"	220 in.-lb.	Proto	4NAL2
7/16"	3 1/32"	310 in.-lb.	Proto	4NAL8
1/2"	3 3/32"	410 in.-lb.	Proto	4NAN5
9/16"	3 5/32"	695 in.-lb.	Proto	4NAN7
10mm	3 1/16"	265 in.-lb.	Proto	4NAK7
11mm	3 1/32"	400 in.-lb.	Proto	4NAK9
13mm	3 3/32"	495 in.-lb.	Proto	4NAL6
14mm	3 5/32"	695 in.-lb.	Proto	4NAN1
Square Ratcheting				
1/4"	3 1/4"	250 in.-lb.	Proto	4NAN3
9mm x 12mm Drive				
Adjustable				
1 1/16"	3 47/64"	89 ft.-lb.	Westward	19ZC60
Box End				
17mm	1 7/8"	148 ft.-lb.	Westward	19ZC85
Open End				
17mm	1 3/4"	81 ft.-lb.	Westward	19ZC73
Square Ratcheting				
1/4"	1 51/64"	55 ft.-lb.	Westward	19ZC56
3/8"	2"	178 ft.-lb.	Westward	19ZC57
1/2"	2"	295 ft.-lb.	Westward	19ZC58
14mm x 18mm Drive				
Adjustable				
1 1/2"	5 5/64"	214 ft.-lb.	Westward	19ZC62
Box End				
19mm	2 19/32"	193 ft.-lb.	Westward	19ZD07
Open End				
24mm	2 15/32"	212 ft.-lb.	Westward	19ZC99
Square Ratcheting				
1/2"	2 23/32"	453 ft.-lb.	Westward	19ZC59
51/64" x 1 15/64" Drive				
1/2"	2 3/8"	2500 in.-lb.	Sturtevant Richmont	36WD54
45/64" x 51/64" Drive				
Flare Nut				
21mm	2 3/16"	708 in.-lb.	Sturtevant Richmont	36WD49
24mm	2 7/32"	929 in.-lb.	Sturtevant Richmont	36WD48
Open End				
13mm	1 29/32"	345 in.-lb.	Sturtevant Richmont	36WD56
Square Ratcheting				
1/4"	1 15/16"	250 in.-lb.	Sturtevant Richmont	36WD52
Standard Tooling Adapter				
—	15/16"	1600 in.-lb.	Sturtevant Richmont	36WD55
29/32" x 1" Drive				
Box End				
18mm	2"	1442 in.-lb.	Sturtevant Richmont	36WD50
29/32" x 1 19/64" Drive				
Box End				
22mm	2 5/32"	2398 in.-lb.	Sturtevant Richmont	36WD51
29/32" Drive				
Open End				
5/8"	1 29/32"	600 in.-lb.	Sturtevant Richmont	53KH75
13/16" Drive				
Box End				
1/2"	1 13/16"	850 in.-lb.	Sturtevant Richmont	53KJ07
Open End				
7/16"	1 13/16"	300 in.-lb.	Sturtevant Richmont	53KH72
5/16" Drive				
Open End				
15/16"	2"	1750 in.-lb.	Sturtevant Richmont	53KH80
3/8" Drive				
Square Ratcheting				
3/8"	2 3/16"	1250 in.-lb.	Sturtevant Richmont	36WD53


No. 45HL66


No. 1ART7


No. 45HL75


No. 45HL74


No. 3R881

Torque Multipliers

PROTO® GEDORE

- Proto® accuracy: ±5%
- Gedore accuracy: ±3%

Proto multipliers are for use with torque wrenches and heavy duty power or impact sockets. Not for use with power drive tools. Feature tubular reaction bars except 3-stage planetary models which have reaction plate with slave drive. 3-stage also have self-contained, 3-stage antibacklash device. Gedore multipliers are particularly suitable for machinery and plant engineering, cable cars, lifts and masts, construction sites, shipbuilding, refineries, and power plants. Mechanical hand torque multipliers provide for controlled screw tightening and unloosening screw connections.

Max. Rated Output	Max. Rated Input	Torque Ratio	Female Input Square Drive	Male Output Square Drive	Angle of Turn Protractor	Overall Length	Calibration Certificate Included	Brand	Mfr. Model	Item No.
Single Stage Planetary										
750 ft.-lb.	227 ft.-lb.	1:3.33	½"	¾"	—	8 1/32"	No	Proto	J6202A	**3YW21**
750 ft.-lb.	227 ft.-lb.	1:3.33	½"	¾"	—	8 19/32"	Yes	Proto	J6202ACERT	**4JW76**
950 ft.-lb.	237 ft.-lb.	1:5	½"	¾"	5° Increments	—	Yes	Gedore	DVV-13ZG	**45HL66**
1200 ft.-lb.	200 ft.-lb.	1:6	½"	¾"	5° Increments	20"	No	Proto	J6212	**1ART6**
1200 ft.-lb.	200 ft.-lb.	1:6	½"	¾"	5° Increments	19 19/32"	Yes	Proto	J6212CERT	**4JW77**
1500 ft.-lb.	410 ft.-lb.	1:4	¾"	1"	5° Increments	7 41/64"	Yes	Gedore	DVI-20Z	**45HL77**
1500 ft.-lb.	410 ft.-lb.	1:4	¾"	1"	5° Increments	5 27/32"	Yes	Gedore	DVI-20L	**45HL76**
2050 ft.-lb.	430 ft.-lb.	1:5.5	¾"	1"	5° Increments	—	Yes	Gedore	DVI-28Z	**45HL75**
2050 ft.-lb.	430 ft.-lb.	1:5.5	¾"	1"	5° Increments	—	Yes	Gedore	DVI-28L	**45HL74**
2930 ft.-lb.	230 ft.-lb.	1:16	½"	1"	5° Increments	7 5/64"	Yes	Gedore	DVV-40ZRS	**45HL68**
2930 ft.-lb.	220 ft.-lb.	1:16	½"	1"	5° Increments	7 5/64"	Yes	Gedore	DVV-40Z	**45HL67**
4400 ft.-lb.	300 ft.-lb.	1:18	¾"	1½"	5° Increments	9½"	Yes	Gedore	DVV-60ZRS	**45HL69**
5870 ft.-lb.	310 ft.-lb.	1:22	¾"	1½"	5° Increments	10"	Yes	Gedore	DVV-80ZRS	**45HL70**
7330 ft.-lb.	305 ft.-lb.	1:28.5	¾"	1½"	5° Increments	11 1/32"	Yes	Gedore	DVV-100ZRS	**45HL71**
9530 ft.-lb.	280 ft.-lb.	1:39	¾"	1½"	5° Increments	12 1/16"	Yes	Gedore	DVV-130ZRS	**45HL72**
40,330 ft.-lb.	280 ft.-lb.	1:175	¾"	2½"	5° Increments	6 9/16"	Yes	Gedore	DVV-540RS	**45HL73**
2 Stage Planetary										
2200 ft.-lb.	162 ft.-lb.	1:13.6	½"	1"	5° Increments	20"	No	Proto	J6222	**1ART7**
2200 ft.-lb.	162 ft.-lb.	1:13.6	½"	1"	5° Increments	19 19/32"	Yes	Proto	J6222CERT	**4JW78**
3200 ft.-lb.	173 ft.-lb.	1:18.5	½"	1"	5° Increments	20"	No	Proto	J6232	**1ART8**
3200 ft.-lb.	173 ft.-lb.	1:18.5	½"	1"	5° Increments	19 19/32"	Yes	Proto	J6232CERT	**4JW79**
3 Stage Planetary										
2200 ft.-lb.	162 ft.-lb.	1:13.6	½"	1"	—	14 1/16"	No	Proto	J6234	**3R880**
5000 ft.-lb.	189 ft.-lb.	1:26.5	½"	1½"	—	14 15/16"	No	Proto	J6242	**3R881**
8000 ft.-lb.	154 ft.-lb.	1:52	½"	1½"	—	15 3/16"	No	Proto	J6252	**3R882**


No. 49AD82


No. 6PAF4


No. 36WD37


No. 6AAW7


No. 4YVR9

CDI TORQUE PRODUCTS GEDORE WESTWARD® Wera Be a Tool Person Sturtevant Richmont® Torque Measurement Systems

Torque Screwdrivers

Gedore—Calibrated to ±6 CW and meet EN ISO 6789. Preset screwdrivers ensure accurate process control by eliminating under and over tightening. Feature ergonomic hand grip combined with a smooth tool reset action.

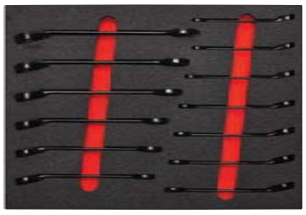
CDI Torque Products—¼" drive screwdrivers are calibrated to ±6% CW of torque reading and meet NIST standards. ¼" Hex Drive screwdrivers are calibrated to ±6% CW/CCW of torque reading and meet ASME B107.14.

Sturtevant Richmont—Calibrated to ±6 CW/CCW of torque reading and meets ASME B107-300. Clutch releases automatically when desired torque has been achieved. Magnifying lens improves the view of clearly engraved scale. Antibacklash design for repeatability.

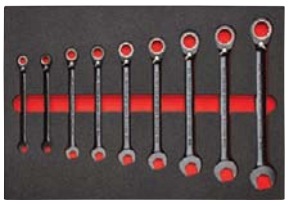
Westward®—Calibrated to ±2 to 3% CW/CCW of torque reading and meet or exceed ISO 6789, CE, NIST, and AIST.

Wera—Calibrated to ±6% CW of torque reading and meet EN ISO 6789.

Description	Primary Scale Range	Primary Scale Increments	Overall Length	Calibration Certificate Included	Brand	Mfr. Model	Item No.
1.4" Hex Drive	10.00 to 100.00 in-oz	—	5 5/8 in	No	CDI	61SP	**38A848**
	10.00 to 80.00 cNm	1.00 cNm	5 ½ in	Yes	CDI	61NSM	**38A849**
	6.00 to 32.00 in-oz	—	4 ½ in	Yes	CDI	21SP	**38A852**
¼" Drive, Pre-Set	0.02 to 0.22 Nm	0.01 Nm	4 7/64 in	Yes, NIST	Gedore	CRS100-0022 FH	**53PH74**
	0.05 to 0.25 Nm	0.05 to 0.25 Nm	5 13/64 in	Yes	Gedore	PGNP 0.25 FS	**49AD82**
	0.05 to 0.25 Nm	0.05 to 0.25 Nm	5 13/64 in	Yes	Gedore	PGNE 0.25 FS	**49AD86**
	0.14 to 1.35 Nm	0.01 Nm	4 13/32 in	Yes, NIST	Gedore	CRS100-0135 FH	**53PH75**
	0.20 to 1.50 Nm	0.20 to 1.50 Nm	5 13/32 in	No	Gedore	PGNS 1.5 FS	**49AD80**
	0.20 to 1.50 Nm	0.20 to 1.50 Nm	5 13/64 in	Yes	Gedore	PGNP 1.5 FS	**49AD83**
	0.20 to 1.50 Nm	0.20 to 1.50 Nm	5 13/64 in	Yes	Gedore	PGNE 1.5 FS	**49AD87**
	0.50 to 4.00 Nm	0.05 Nm	5 in	Yes, NIST	Gedore	CRS100-0406 FH	**53PH76**
	0.50 to 4.50 Nm	0.50 to 4.50 Nm	5 ½ in	Yes	Gedore	PGNP 4.5 FS	**49AD84**
	0.50 to 4.50 Nm	0.50 to 4.50 Nm	5 13/32 in	No	Gedore	PGNS 4.5 FS	**49AD81**
	0.50 to 4.50 Nm	0.50 to 4.50 Nm	5 ½ in	Yes	Gedore	PGNE 4.5 FS	**49AD88**
	2.50 to 13.50 Nm	2.50 to 13.50 Nm	5 13/32 in	Yes	Gedore	PGNP 13.5 FS	**49AD85**
	2.50 to 13.50 Nm	2.50 to 13.50 Nm	5 13/32 in	Yes	Gedore	PGNE 13.5 FS	**49AD89**
	2.50 to 13.60 Nm	0.05 Nm	5 13/32 in	Yes, NIST	Gedore	CRS100-1360 FH	**53PH77**
	4.00 Nm	2.9 ft lb, 35.4 in-lb, 4 Nm	7 ½ in	Yes	CDI	TLPT4NM	**22N920**
¼" Drive, Electronic	0.88 to 17.70 in-lb	0.01 in-lb	8 in	Yes	Westward	—	**6PAF4**
	1.77 to 35.39 in-lb	0.01 in-lb	8 in	Yes	Westward	—	**6PAF5**
¼" Drive, Adjustable, ESD Safe	1.20 to 3.00 Nm	0.10 Nm	105 mm	Yes	Wera	05074731001	**6AAW6**
	11.0 - 29.0 in-lb	1.00 in-lb	105 mm	Yes	Wera	05074734001	**6AAW8**
	2.50 to 11.50 in-lb	0.50 in-lb	105 mm	Yes	Wera	05074733001	**6AAW7**
¼" Drive, Adjustable	0.30 to 1.20 Nm	0.05 Nm	105 mm	Yes	Wera	05074700001	**6AAV3**
	1.20 to 3.00 Nm	0.10 Nm	105 mm	Yes	Wera	05074701001	**6AAV4**
	11.0 - 29.0 in-lb	1.00 in-lb	105 mm	Yes	Wera	05074711001	**6AAV7**
	2.00 to 36.00 in-lb	2.00 in-lb	7 ¾ in	Yes	Sturtevant Richmont	810587	**36WD37**
	2.50 to 11.50 in-lb	0.50 in-lb	105 mm	Yes	Wera	05074710001	**6AAV6**
	20.00 to 100.00 in-oz	1.00 in-oz	5 ½ in	Yes	CDI	61SM	**4YVT4**
	25.0 - 55.0 in-lb	2.50 in-lb	105 mm	Yes	Wera	05074712001	**6AAV8**
	3.00 to 15.00 in-lb	0.20 in-lb	6 ¼ in	Yes	CDI	151SM	**4YVR9**
	5.00 to 40.00 in-lb	0.50 in-lb	6 ¾ in	Yes	CDI	401SM	**4YVT2**
	50.00 to 450.00 cNm	5.00 cNm	6 ¾ in	Yes	CDI	401NSM	**38A851**


No. 54JG14


No. 1AKR1


No. 54JG12



No. 1WNC1



No. 22DJ45



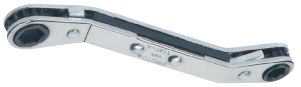

No. 54DG26

Ratcheting Wrench Sets

WESTWARD® PROTO®

- Spline design allows numerous fastener head uses

No. of Pieces	Wrench Head Sizes	Finish	Brand	Item No.
12-Point Metric				
5	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm	Full Polish	Westward	**54DG39**
6	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 18mm, 17mm, 19mm	Full Polish	Westward	**54DG35**
7	10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 18mm	Full Polish	Proto	**33HE20**
7	21mm, 22mm, 24mm, 25mm, 27mm, 30mm, 32mm	Full Polish	Westward	**54DG25**
7	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm, 16mm, 18mm, 19mm, 21mm	Full Polish	Westward	**54DG37**
8	8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 18mm	Full Polish	Proto	**33HE21**
10	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Black Chrome	Proto	**1WNB8**
12	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Black Chrome	Proto	**22DJ42**
12	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Full Polish	Proto	**22DJ44**
13	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Black Chrome	Proto	**1WNC2**
13	6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Full Polish	Proto	**22DJ48**
13	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Chrome	Proto	**54JG14**
14	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Full Polish	Proto	**34E412**
15	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm	Full Polish	Westward	**54DG24**
17	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm, 25mm	Full Polish	Westward	**54DG33**
20	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm	Full Polish	Proto	**34E411**
22	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm	Black Chrome	Proto	**1WNC3**
22	6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm	Full Polish	Proto	**22DJ47**
22	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm	Chrome	Proto	**54JG15**
Extra Long				
17	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm	Full Polish	Westward	**54DG27**
Flare Nut				
10	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Black Oxide	Proto	**31XR45**
Locking				
17	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm, 25mm	Full Polish	Westward	**54DG29**
Stubby				
12	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Full Polish	Westward	**54DG31**
13	6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	Black Chrome	Proto	**22DJ40**
12-Point SAE				
3	3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16"	Full Polish Chrome	Proto	**1AKR1**
4	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Full Polish	Westward	**54DG34**
5	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8"	Full Polish Chrome	Proto	**1AKR2**
5	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8"	Full Polish Chrome	Proto	**1UK89**
5	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8"	Full Polish	Westward	**54DG36**
5	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8"	Full Polish	Westward	**54DG38**
7	1 1/16", 1 1/8", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2"	Full Polish	Westward	**54DG23**
8	7/32", 9/32", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8", 1 3/16", 1 5/16", 1", 1 1/8"	Black Chrome	Proto	**1WNC4**
8	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**22DJ41**
9	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**1WNB7**
9	9/32", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**1WNB9**
9	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**22DJ39**
9	9/32", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Full Polish	Proto	**22DJ46**
9	9/32", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**54JG12**
9	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Chrome	Proto	**54JG11**
11	1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Full Polish	Proto	**34E410**
13	5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1"	Full Polish	Westward	**54DG32**
14	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 1 1/32", 13/16", 7/8", 15/16", 1"	Full Polish	Proto	**22DJ43**
15	1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1"	Full Polish	Westward	**54DG22**
18	1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	Full Polish	Proto	**34E409**
20	7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 1/2"	Black Chrome	Proto	**1WNC1**
20	7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 1/2"	Full Polish	Proto	**22DJ45**
20	7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 1/2"	Black Chrome	Proto	**54JG13**
Extra Long				
15	1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1"	Full Polish	Westward	**54DG26**
Flare Nut				
7	3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Black Oxide	Proto	**1AKW0**
Locking				
13	5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 13/16", 7/8", 15/16", 1"	Full Polish	Westward	**54DG28**
Stubby				
8	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4"	Full Polish	Westward	**54DG30**
6, 12-Point Metric				
5	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm	Full Polish Chrome	Proto	**4LT85**
7	7mm, 8mm, 9mm, 10mm, 11mm, 13mm, 12mm, 14mm, 15mm, 17mm, 16mm, 18mm, 19mm, 21mm	Full Polish Chrome	Proto	**4LT82**
6, 12-Point SAE				
5	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1 1/16", 3/4", 7/8"	Full Polish Chrome	Proto	**1AKR3**



Box End, Reversing - 25° Offset
No. 1AMX8



Box End, Reversing, Air-Conditioning
No. 1C052



Box End, Reversing, Spline
No. 1XDK1



Flare Nut
No. 1ANW8



Combination, Reversing, Spline - 15° Offset
No. 1XDG9

PROTO®

Individual Ratcheting Wrenches

- Spline design allows use with numerous fastener head styles

Size	Overall Length	Item No.
6-Point SAE		
Box End		
½ x 9⁄16"	6¾"	**1AMX0**
¼ x 5⁄16"	4 9⁄32"	**1AMW6**
⅜ x 7⁄16"	5½"	**1AMW8**
Box End, Reversing 25° Offset		
¼ x 5⁄16"	4¼"	**1AMX8**
⅜ x 7⁄16"	5¼"	**1AMX9**
½ x 9⁄16"	6 13⁄16"	**1ANC0**
6-Point Metric		
Box End		
12 x 14mm	9"	**4LT87**
Box End, Reversing		
7 x 8mm	4"	**19C604**
11 x 13mm	6 13⁄16"	**19C602**
Box End, Reversing 25° Offset		
7 x 8mm	4"	**1ANF1**
9 x 10mm	5½"	**1ANF2**
11 x 13mm	6½"	**4LT83**
12 x 14mm	6½"	**4LT84**
12-Point SAE		
Box End		
¼ x 5⁄16"	4 9⁄32"	**19C603**
⅜ x 7⁄16"	5½"	**1AMW9**
½ x 9⁄16"	6¾"	**1AMX1**
⅝ x 11⁄16"	8 7⁄64"	**1AMX2**
⅝ x ¾"	8⅛"	**1AMX4**
¾ x ⅞"	9¼"	**1AMX3**
13⁄16 x 15⁄16"	9¼"	**1AMX5**
1⅛ x 1¼"	15"	**1AMX7**
Box End, Reversing		
1 x 1 1⁄16"	15"	**1AMX6**
Box End, Reversing w/Retaining Ring		
⅜ x 7⁄16"	5½"	**1UK93**
½ x 9⁄16"	6⅞"	**1UK95**
¾ x ⅞"	9¼"	**1UK99**
Box End, Reversing 25° Offset		
7⁄32 x 9⁄32"	4⅛"	**1GG39**
¼ x 5⁄16"	4⅛"	**1GG37**
⅜ x 7⁄16"	5¼"	**1GG36**
½ x 9⁄16"	6½"	**1GG35**
⅝ x 11⁄16"	8"	**1ANC1**
⅝ x ¾"	7¾"	**1ANC3**
¾ x ⅞"	9½"	**1ANC2**
6-Point SAE		
Box End, Reversing Air Conditioning		
3⁄16" and ¼" sq. x ½" and 9⁄16" Hex	6¾"	**1C054**
4, 6-Point SAE		
Box End, Reversing Air Conditioning		
¼ x 3⁄16"	5½"	**1C052**
12-Point SAE		
Box End, Reversing Spline		
7⁄32 x 9⁄32"	4½"	**1XDJ5**
¼ x 5⁄16"	4½"	**1XDJ6**
⅜ x 7⁄16"	5 5⁄16"	**1XDJ7**
½ x 9⁄16"	7 1⁄16"	**1XDJ8**
⅝ x 11⁄16"	7⅞"	**1XDJ9**
¾ x ⅞"	9 5⁄8"	**1XDK1**
13⁄16 x 15⁄16"	10¼"	**1XDK2**
1 x 1⅛"	11 5⁄8"	**1XDK3**
Combination		
1⁄4"	5"	**22DH70**
5⁄16"	5½"	**22DH71**
1 1⁄32"	5 15⁄16"	**22DH72**
3⁄8"	6¼"	**22DH73**
7⁄16"	6½"	**22DH74**
1⁄2"	7"	**22DH75**
9⁄16"	7½"	**22DH76**
5⁄8"	8¼"	**22DH77**
1 1⁄16"	8 15⁄16"	**22DH78**
3⁄4"	9 13⁄16"	**22DH79**
13⁄16"	11 5⁄16"	**22DH80**
7⁄8"	11 7⁄16"	**22DH81**
15⁄16"	12¾"	**22DH82**
1"	12 5⁄8"	**22DH83**
Combination, Reversing - 15° Offset		
7⁄32"	5"	**22DH28**
1⁄4"	5"	**22DH29**
9⁄32"	5½"	**22DH30**
5⁄16"	5½"	**22DH31**
1 1⁄32"	5 15⁄16"	**22DH32**
3⁄8"	6¼"	**22DH33**
7⁄16"	6½"	**22DH34**
1⁄2"	7½"	**22DH35**
9⁄16"	7½"	**22DH36**
5⁄8"	8¼"	**22DH37**
1 1⁄16"	8 15⁄16"	**22DH38**
¾"	9 13⁄16"	**22DH39**
13⁄16"	11½"	**22DH40**
⅞"	11½"	**22DH41**
15⁄16"	12 13⁄16"	**22DH42**
1"	12¾"	**22DH43**
1 1⁄16"	14¼"	**22DH44**
1⅛"	15 15⁄16"	**22DH45**
1¼"	16¾"	**22DH46**
1½"	19 5⁄16"	**22DH47**
Combination, Spline		
5⁄16"	7½"	**22DJ19**
⅜"	5⅝"	**22DJ20**
7⁄16"	5 9⁄16"	**22DJ21**
1⁄2"	6⅛"	**22DJ22**
9⁄16"	6 7⁄16"	**22DJ23**
⅝"	7⅛"	**22DJ24**
1 1⁄16"	7½"	**22DJ25**
¾"	8⅝"	**22DJ26**
Combination, Spline, 15° Offset		
¼ x #8	5"	**1TEL1**
5⁄16 x #10	5½"	**1TEL2**
⅜ x #12	6¼"	**1TEL4**
7⁄16 x #14	6½"	**1TEL5**
½ x #16	7"	**1TEL6**
9⁄16 x #18	7½"	**1TEL7**
⅝ x #20	8 3⁄16"	**1TEL8**
1 1⁄16 x #22	8⅞"	**1TEL9**
¾ x #24	9¾"	**1TEP1**
13⁄16 x #26	11 7⁄16"	**19C596**
⅞ x #28	11 7⁄16"	**19C598**
15⁄16 x #30	12¾"	**19C597**
1 x #32	12¾"	**19C595**
Combination, Reversing, Spline, 15° Offset		
7⁄32 x #7	5"	**1XDD8**
¼ x #8	5"	**1XDD9**
9⁄32 x #9	5½"	**1XDE1**
5⁄16 x #10	5½"	**1XDE2**
1 1⁄32 x #11	5 15⁄16"	**1XDE3**
⅜ x #12	6¼"	**1XDE4**
7⁄16 x #14	6½"	**1XDE5**
½ x #16	7"	**1XDE6**
9⁄16 x #18	7½"	**1XDE7**
⅝ x #20	8 3⁄16"	**1XDE8**
1 1⁄16 x #22	8⅞"	**1XDE9**
¾ x #24	9¾"	**1XDF1**
13⁄16 x #26	11 7⁄16"	**1XDF2**
⅞ x #28	11 7⁄16"	**1XDF3**
15⁄16 x #30	12¾"	**1XDF4**
1 x #32	12¾"	**1XDF5**
1 1⁄16 x #34	14⅛"	**1XDF6**
1 1⁄8 x #36	15⅞"	**1XDF7**
1 1⁄4 x #40	19 3⁄16"	**1XDF8**
1 1⁄2 x #48	19 5⁄16"	**1XDF9**
Combination, Reversing, Spline, Non-Slip - 15° Offset		
1⁄4" x #8	5"	**34E370**
9⁄32" x #9	5½"	**34E371**
5⁄16" x #10	5½"	**34E372**
1 1⁄32" x #11	6"	**34E373**
3⁄8" x #12	6¼"	**34E374**
7⁄16" x #14	6½"	**34E375**
1⁄2" x #16	7"	**34E376**
9⁄16" x #18	7½"	**34E377**
5⁄8" x #20	8 3⁄16"	**34E378**
1 1⁄16" x #22	8 15⁄16"	**34E379**
¾" x #24	9¾"	**34E380**
13⁄16" x #26	11 7⁄16"	**34E381**
⅞" x #28	11 7⁄16"	**34E382**
15⁄16" x #30	12¾"	**34E383**
1" x #32	12¾"	**34E384**
1 1⁄16" x #34	14⅛"	**34E385**
1 1⁄8" x #36	15⅞"	**34E386**
1 1⁄4" x #40	16 3⁄4"	**34E387**
Combination, Reversing, Spline - Stubby, 15° Offset		
1⁄4"	3 1⁄8"	**22DH96**
5⁄16"	3½"	**22DH97**
7⁄16"	4"	**22DH99**
1⁄2"	4¼"	**22DJ01**
9⁄16"	4½"	**22DJ02**
5⁄8"	4⅞"	**22DJ03**
1 1⁄16"	5"	**22DJ04**
¾"	5½"	**22DJ05**
Combination, Reversing, Spline - Stubby, 15 Degrees Offset		
⅜"	3¾"	**22DH98**
Flare Nut End		
3⁄8"	5 7⁄16"	**1ANW0**
7⁄16"	5 7⁄16"	**1ANW1**
1⁄2"	5 7⁄16"	**1ANW2**
9⁄16"	7¼"	**1ANW3**
5⁄8"	7¼"	**1ANW4**
1 1⁄16"	7¼"	**1ANW5**
¾"	7¼"	**1ANW6**
13⁄16"	9 3⁄8"	**1ANW7**
⅞"	9 3⁄8"	**1ANW8**
15⁄16"	9 3⁄8"	**1ANW9**
1"	9 3⁄8"	**1ANX0**
12-Point Metric		
Box End, Reversing		
15 x 17mm	8"	**1ANC8**
Box End, Reversing w/Retaining Ring		
7 x 8mm	4"	**1UK92**
9 x 10mm	5½"	**1UK94**
11 x 12mm	6"	**1UK96**
13 x 14mm	6"	**1UK98**
15 x 17mm	8"	**1UL10**
Box End, Reversing - 25° Offset		
15 x 17mm	7"	**19C605**
16 x 18mm	7"	**19C606**
19 x 21mm	8"	**1ANF7**
Box End, Reversing, Spline		
16 x 18mm	8"	**1ANC9**
19 x 21mm	9"	**1ANF0**
Combination		
8mm	5 15⁄16"	**22DH84**
9mm	5 15⁄16"	**22DH85**
10mm	6 5⁄16"	**22DH86**
11mm	6½"	**22DH87**
12mm	6 13⁄16"	**22DH88**
13mm	7"	**22DH89**
14mm	7½"	**22DH90**
15mm	7 15⁄16"	**22DH91**
16mm	8¼"	**22DH92**
17mm	8 15⁄16"	**22DH93**
18mm	9 5⁄16"	**22DH94**
19mm	9 13⁄16"	**22DH95**
Combination, Reversing - 15° Offset		
6mm	5"	**22DH48**
7mm	5½"	**22DH49**
8mm	5½"	**22DH50**
9mm	6"	**22DH51**
10mm	6 5⁄16"	**22DH52**
11mm	6 5⁄8"	**22DH53**
12mm	6 13⁄16"	**22DH54**
13mm	7"	**22DH55**
14mm	7½"	**22DH56**
15mm	7 15⁄16"	**22DH57**
16mm	8¼"	**22DH58**
17mm	8 15⁄16"	**22DH59**
18mm	9 5⁄16"	**22DH60**
19mm	9 13⁄16"	**22DH61**
21mm	11½"	**22DH62**
22mm	11½"	**22DH63**
24mm	12¾"	**22DH64**
27mm	14⅛"	**22DH65**
30mm	15 15⁄16"	**22DH66**
32mm	16 13⁄16"	**22DH67**
34mm	18"	**22DH68**
36mm	19 5⁄16"	**22DH69**
Combination, Spline		
8mm	7 1⁄16"	**22DJ27**
9mm	7 1⁄16"	**22DJ28**
10mm	5 5⁄16"	**22DJ29**
11mm	8⅛"	**22DJ30**
12mm	5 13⁄16"	**22DJ31**
13mm	6⅛"	**22DJ32**
14mm	8⅝"	**22DJ33**
15mm	6 13⁄16"	**22DJ34**
16mm	9½"	**22DJ35**
17mm	7½"	**22DJ36**
18mm	10½"	**22DJ37**
19mm	8½"	**22DJ38**
Combination, - 15° Offset		
8mm	5½"	**19C599**
9mm	5 13⁄16"	**19C601**
10mm	6¼"	**1TEP2**
11mm	6½"	**1TEP3**
12mm	6¾"	**1TEP4**
13mm	7"	**1XDD1**
14mm	7½"	**1XDD2**
15mm	7⅞"	**1XDD3**
16mm	8 3⁄16"	**1XDD4**
17mm	8⅞"	**1XDD5**
18mm	9 5⁄16"	**1XDD6**
19mm	9¾"	**1XDD7**
Combination, Reversing, - 15° Offset		
6mm	5"	**1XDG1**
7mm	5½"	**1XDG2**
8mm	5½"	**1XDG3**
9mm	5 15⁄16"	**1XDG4**
10mm	6¼"	**1XDG5**
11mm	6 5⁄16"	**1XDG6**
12mm	6¾"	**1XDG7**
13mm	7"	**1XDG8**
14mm	7½"	**1XDG9**
15mm	7⅞"	**1XDH1**
16mm	8 3⁄16"	**1XDH2**
17mm	8⅞"	**1XDH3**
18mm	9 5⁄16"	**1XDH4**
19mm	9¾"	**1XDH5**
21mm	11 7⁄16"	**1XDH6**
22mm	11 7⁄16"	**1XDH7**
24mm	12¾"	**1XDH8**
27mm	14⅛"	**1XDH9**
30mm	15⅞"	**1XDJ1**
32mm	16¾"	**1XDJ2**
34mm	18⅛"	**1XDJ3**
36mm	19 5⁄16"	**1XDJ4**
Combination, Reversing, Spline Stubby - 15° Offset		
6mm	3½"	**22DJ06**
8mm	6⅛"	**22DJ07**
9mm	6¼"	**22DJ08**
10mm	6"	**22DJ09**
11mm	6 7⁄16"	**22DJ10**
12mm	6 13⁄16"	**22DJ11**
13mm	4¼"	**22DJ12**
14mm	3 7⁄16"	**22DJ13**
15mm	7¼"	**22DJ14**
16mm	7 1⁄16"	**22DJ15**
17mm	5"	**22DJ16**
18mm	7¾"	**22DJ17**
19mm	8 1⁄16"	**22DJ18**
Combination, Reversing, Spline, - 5° Offset		
6mm	5"	**34E388**
7mm	5½"	**34E389**
8mm	5½"	**34E390**
9mm	5 15⁄16"	**34E391**
10mm	6¼"	**34E392**
11mm	6½"	**34E393**
12mm	7"	**34E394**
13mm	7½"	**34E395**
14mm	8 3⁄16"	**34E396**
15mm	8 15⁄16"	**34E397**
16mm	9¾"	**34E398**
17mm	11 7⁄16"	**34E399**
18mm	11 7⁄16"	**34E401**
19mm	12¾"	**34E402**
21mm	12¾"	**34E403**
22mm	14⅛"	**34E404**
24mm	15⅞"	**34E405**
27mm	16¾"	**34E406**
30mm	16¾"	**34E407**
32mm	16¾"	**34E408**

24/7 EMERGENCY SERVICE

When you need products in a pinch, count on our After Hours Emergency Service to open the Grainger branch nearest you, any time of day or night (a $50 fee may apply).

> After hours, dial **1-800-CALL-WWG**



Combination
No. 34E326



Combination, Locking Flexible Head
No. 1LCN3

WESTWARD®

Individual Ratcheting Wrenches

Wrench Head Sizes	Overall Length	Item No.
12-Point SAE		
Box End, Fixed, 0° Offset		
5/16", 3/8"	5"	54PP63
7/16", 1/2"	6 1/4"	54PP64
9/16", 5/8"	7 1/2"	54PP65
11/16", 3/4"	9"	54PP66
Box End, Fixed, 0° Offset Reversing		
1/4", 5/16"	4 1/2"	54PP85
3/8", 7/16"	5 1/2"	54PP86
Box End, Fixed, 25° Offset Reversing		
1/4", 5/16"	4 1/2"	54PP73
5/8", 11/16"	7 3/4"	54PP76
3/4", 7/8"	8 13/16"	54PP77
Combination, Fixed, 0° Offset		
1/4"	4 15/16"	54PN21
9/32"	5"	54PN22
5/16"	5 1/2"	54PN23
11/32"	5 7/8"	54PN24
3/8"	6 7/32"	54PN25
7/16"	6 1/2"	54PN26
1/2"	7"	54PN27
9/16"	7 1/2"	54PN28
5/8"	8 7/32"	54PN29
11/16"	8 7/8"	54PN30
3/4"	9 3/4"	54PN31
13/16"	11 1/2"	54PN32
7/8"	11 1/2"	54PN33
15/16"	13"	54PN34
1"	13"	54PN35
1 1/16"	14"	54PN36
1 1/8"	15 13/16"	54PN37
1 1/4"	16 3/4"	54PN38
1 5/16"	18"	54PN39
1 3/8"	18"	54PN40
1 7/16"	19 11/16"	54PN41
1 1/2"	19 11/16"	34E325
1 9/16"	22 11/16"	54PN42
1 5/8"	22 11/16"	54PN43
1 11/16"	24 7/32"	34E326
1 3/4"	24 7/32"	34E328
1 13/16"	25 3/8"	34E327
1 7/8"	25 3/8"	54PN44
2"	25 3/4"	54PN45
Combination, Fixed, 0° Offset Extra Long		
1/4"	5 5/16"	54PN73
9/32"	5 15/16"	54PN74
5/16"	5 15/16"	54PN75
11/32"	7"	54PN76
3/8"	7"	54PN77
7/16"	7 11/16"	54PN78
1/2"	8 5/8"	54PN79
9/16"	9 7/32"	54PN80
5/8"	10 7/32"	54PN81
11/16"	10 13/16"	54PN82
3/4"	12"	54PN83
13/16"	12 1/2"	54PN84
7/8"	13"	54PN85
15/16"	14"	54PN86
1"	14 1/2"	54PN87
Combination, Fixed, 0° Offset Stubby		
5/16"	3 1/2"	54PP13
3/8"	3 11/16"	54PP14
7/16"	4"	54PP15
1/2"	4 7/32"	54PP16
9/16"	4 7/16"	54PP17
5/8"	4 13/16"	54PP18
11/16"	4 15/16"	54PP19
3/4"	5 7/16"	54PP20
Combination, Fixed, 15° Offset Reversing		
5/16"	5 1/2"	54PP33
11/32"	5 7/8"	54PP34
3/8"	6 7/32"	54PP35
7/16"	6 1/2"	54PP36
1/2"	7"	54PP37
9/16"	7 1/2"	54PP38
5/8"	8 7/32"	54PP39
11/16"	8 7/8"	54PP40
3/4"	9 3/4"	54PP41
13/16"	11 1/2"	54PP42
7/8"	11 1/2"	54PP43
15/16"	13"	54PP44
1"	13"	54PP45
Combination, Flexible, 0° Offset		
11/32"	6"	54PP06
Combination, Flexible, 0° Offset Locking		
5/16"	5 1/2"	1LCP5
3/8"	6 1/2"	1LCP6
7/16"	7"	1LCP7
1/2"	8"	1LCP8
9/16"	8 1/2"	1LCP9
5/8"	9 1/2"	1LCR1
11/16"	10"	1LCR2
3/4"	11"	1LCR3
13/16"	12 1/2"	1LCR4
7/8"	13"	1LCR5
15/16"	14"	1LCR6
1"	15"	1LCR7
12-Point Metric		
Box End, Fixed, 0° Offset		
8mm, 9mm	5"	54PP67
10mm, 11mm	5 7/8"	54PP68
12mm, 13mm	6 11/16"	54PP69
14mm, 15mm	7 1/2"	54PP70
16mm, 18mm	8 1/4"	54PP71
17mm, 19mm	9"	54PP72
Box End, Fixed, 0° Offset Reversing		
7mm, 8mm	4 1/2"	54PP90
9mm, 10mm	5 1/2"	54PP91
11mm, 12mm	5 1/2"	54PP92
13mm, 14mm	6 1/2"	54PP93
15mm, 17mm	7"	54PP94
Box End, Fixed, 25° Offset Reversing		
7mm, 8mm	4 1/2"	54PP78
9mm, 10mm	5 7/16"	54PP79
11mm, 12mm	5 7/16"	54PP80
13mm, 14mm	6 1/2"	54PP81
15mm, 17mm	7 3/4"	54PP82
16mm, 18mm	7 3/4"	54PP83
19mm, 21mm	8 13/16"	54PP84
Combination, Fixed, 0° Offset		
6mm	4 15/16"	54PN46
7mm	5 7/32"	54PN47
8mm	5 1/2"	54PN48
9mm	5 7/8"	54PN49
10mm	6 7/32"	54PN50
11mm	6 1/2"	54PN51
12mm	6 3/4"	54PN52
13mm	7"	54PN53
14mm	7 1/2"	54PN54
15mm	7 7/8"	54PN55
16mm	8 7/32"	54PN56
17mm	8 7/8"	54PN57
18mm	9 5/16"	54PN58
19mm	9 3/4"	54PN59
20mm	11 7/16"	54PN60
21mm	11 7/16"	54PN61
22mm	11 7/16"	54PN62
24mm	13"	54PN63
25mm	13"	54PN64
27mm	14"	54PN65
30mm	15 13/16"	54PN66
32mm	16 3/4"	54PN67
34mm	18"	54PN68
36mm	19 11/16"	54PN69
41mm	22 11/16"	54PN70
46mm	25 3/8"	54PN71
50mm	25 3/4"	54PN72
Combination, Fixed, 0° Offset Extra Long		
7mm	5 9/16"	54PN88
8mm	5 15/16"	54PN89
9mm	6 1/2"	54PN90
10mm	7"	54PN91
11mm	7 11/16"	54PN92
12mm	8"	54PN93
13mm	8 11/16"	54PN94
14mm	9 7/32"	54PN95
15mm	9 13/16"	54PN96
16mm	10 7/32"	54PN97
17mm	10 13/16"	54PN98
18mm	11 3/8"	54PN99
19mm	12"	54PP01
20mm	12 1/2"	54PP02
21mm	12 1/2"	54PP03
22mm	13"	54PP04
24mm	14"	54PP05
Combination, Fixed, 0° Offset Stubby		
8mm	3 1/2"	54PP21
9mm	3 1/2"	54PP22
10mm	3 11/16"	54PP23
11mm	4"	54PP24
12mm	4"	54PP25
13mm	4 7/32"	54PP26
14mm	4 7/16"	54PP27
15mm	4 5/8"	54PP28
16mm	4 13/16"	54PP29
17mm	4 15/16"	54PP30
18mm	5"	54PP31
19mm	5 7/16"	54PP32
Combination, Fixed, 15° Offset Reversing		
8mm	5 1/2"	54PP46
9mm	5 7/8"	54PP47
10mm	6 7/32"	54PP48
11mm	6 1/2"	54PP49
12mm	6 3/4"	54PP50
13mm	7"	54PP51
14mm	7 1/2"	54PP52
15mm	7 7/8"	54PP53
16mm	8 7/32"	54PP54
17mm	8 7/8"	54PP55
18mm	9 5/16"	54PP56
19mm	9 3/4"	54PP57
20mm	11 7/16"	54PP58
21mm	11 7/16"	54PP59
22mm	11 7/16"	54PP60
24mm	13"	54PP61
25mm	13"	54PP62
Combination, Flexible, 0° Offset		
8mm	5 3/4"	54PP07
9mm	6 7/32"	54PP08
11mm	7 7/32"	54PP09
16mm	9 1/2"	54PP10
18mm	10 1/2"	54PP11
20mm	11"	54PP12
Combination, Flexible, 0° Offset Locking		
10mm	6 1/2"	1LCN3
12mm	7 1/2"	1LCN4
13mm	8"	1LCN5
14mm	8 1/2"	1LCN6
15mm	9"	1LCN7
17mm	10"	1LCN8
19mm	11"	1LCN9
21mm	12 1/2"	1LCP1
22mm	13"	1LCP2
24mm	14"	1LCP3
25mm	15"	1LCP4



No. 36XK77

SK®

Individual Ratcheting Wrenches

- Chrome finish
- 1.7° arch swing
- I-beam handle to distribute force

Wrench Head Sizes	Overall Length	Item No.
6-Point SAE		
3/8"	7 3/4"	**36XK77**
7/16"	8 1/8"	**36XK78**
1/2"	9 1/16"	**36XK79**
9/16"	9 7/16"	**36XK80**
5/8"	10 3/8"	**36XK81**
11/16"	11"	**36XK82**
3/4"	12"	**36XK83**

Wrench Head Sizes	Overall Length	Item No.
6-Point Metric		
8mm	7 3/4"	**36XK85**
9mm	7 3/4"	**36XK86**
10mm	7 3/4"	**36XK87**
11mm	8 1/8"	**36XK88**
12mm	8 9/16"	**36XK89**
13mm	9 1/16"	**36XK90**
14mm	9 7/16"	**36XK91**
15mm	10"	**36XK92**
16mm	10 3/8"	**36XK93**
17mm	11"	**36XK94**
18mm	11 1/2"	**36XK95**
19mm	12"	**36XK96**



No. 38WF39



No. 2DGC8



No. 22DK70



No. 1AKN5

WESTWARD PROTO SK® FACOM STANLEY KLEIN TOOLS

Combination Wrench Sets

- For specific wrenches included in each set, see Grainger.com®

No. of Pieces	Specify Size	Finish	Brand	Item No.	
6-Point					
15° Offset					
18	1/4 - 1 1/4"	Full Polish	Westward	**54DF96**	
20	6 - 25mm	Full Polish	Westward	**54DF97**	
15° Offset, Flare Nut End Wrench					
7	3/8 - 3/4"	Satin	Proto	**1AKT8**	†
15° Offset, Long					
10	10 - 19mm	Full Polish	Proto	**449P06**	
	10 - 19mm	Satin	Proto	**449P55**	
13	7 - 19mm	Full Polish	SK	**12D215**	
15° Offset, Long					
10	7/16 - 1"	Full Polish	Proto	**449P01**	
	7/16 - 1"	Satin	Proto	**449P48**	
15° Offset, Stubby					
8	1/8 - 3/8"	Full Polish	Proto	**22DG54**	*
6, 12-Point					
15° Offset					
16	6-Pt: 3.2 - 5.5mm 12-Pt: 6 - 17mm	Satin	Facom	**2TLD8**	†
12-Point SAE					
15° Offset					
7	8 - 22mm	Full Polish	STANLEY	**38WF39**	
14	8 - 22mm	Nickel Chrome	Klein Tools	**2DGC8**	
Locking					
13	8 - 22mm	Full Polish	Westward	**54DG28**	
12-Point, Aerospace Certified					
15° Offset, Long					
6	8 - 17mm	Black Oxide	Proto	**449N54**	
9	7 - 15mm	Full Polish	Proto	**449P07**	
	10 - 18mm	Black Oxide	Proto	**449N53**	
	10 - 18mm	Full Polish	Proto	**449P08**	
11	7 - 19mm	Full Polish	Proto	**449P05**	
14	7 - 20mm	Full Polish	Proto	**449P04**	
17	7 - 24mm	Full Polish	Proto	**449P03**	
18	7 - 24mm	Satin	Proto	**449P52**	
	1/4" - 18mm	Full Polish	Proto	**449P51**	
15° Offset, Long					
7	3/8 - 3/4"	Full Polish	Proto	**449P02**	
	3/8 - 3/4"	Satin	Proto	**449P50**	
11	3/8 - 1"	Full Polish	Proto	**449N99**	
15	5/16 - 1 1/4"	Full Polish	Proto	**449N98**	
12-Point					
0° Offset					
8	13/16 - 1 1/4"	Satin	Westward	**54RZ51**	
15° Offset					
6	1 5/8 - 2"	Chrome	SK	**22DK70**	
	1 7/8 - 2 1/4"	Chrome	SK	**22DK71**	
	2 1/4 - 2 3/4"	Chrome	SK	**22DK72**	
8	13/16 - 1 1/4"	Full Polish	Westward	**54DF92**	
10	1 5/16 - 2"	Black Oxide	Westward	**54DG09**	
	1 5/16 - 2"	Satin	Westward	**54DG02**	
	1/4 - 3/4"	Full Polish	Westward	**54DF91**	
	1/4 - 3/4"	Satin	Westward	**54DG01**	
12	20 - 31mm	Full Polish	Westward	**54DF94**	
	20 - 31mm	Satin	Westward	**54DG04**	
14	6 - 19mm	Full Polish	Westward	**54DF93**	
	6 - 19mm	Full Polish	Westward	**54DF99**	
	6 - 19mm	Satin	Westward	**54DG03**	
	1/4 - 1"	Full Polish	Westward	**54DF98**	
	3/8 - 1 1/4"	Black Oxide	Proto	**54JG17**	
15	8 - 22mm	Black Oxide	SK	**34NL88**	
	8 - 22mm	Full Polish	SK	**12D213**	
	1/4 - 1"	Full Polish	SK	**12D212**	
	5/16 - 1 1/4"	Full Polish	Proto	**54JG18**	
	5/16 - 1 1/4"	Satin	Proto	**54JG16**	
18	7 - 24mm	Satin	Proto	**54JG19**	
	1/4 - 1 1/4"	Black Oxide	Westward	**54DG08**	
19	6 - 24mm	Black Oxide	Westward	**54DG10**	
23	8 - 32mm	Full Polish	SK	**21A265**	
	1/4 - 1 1/2"	Full Polish	SK	**21A249**	
15° Offset					
35	1/4 - 25mm	Full Polish	Westward	**54DF95**	
15° Offset, Flare Nut End Wrench					
7	3/8 - 3/4"	Satin	Proto	**5F344**	†
15° Offset, Flexible Head					
7	3/8 - 3/4"	Full Polish	SK	**21A255**	
15° Offset, Flexible Head, Antislip, Twist Shape					
4	7/16 - 5/8"	Satin	Proto	**1AKN5**	†
7	3/8 - 3/4"	Satin	Proto	**1AKN6**	†
15° Offset, Long					
8	10 - 15mm	Satin	Proto	**449P58**	
9	7 - 15mm	Satin	Proto	**449P57**	
10	10 - 19mm	Satin	Proto	**449P56**	
13	1/4 - 1"	Full Polish	SK	**12D214**	
15	7 - 21mm	Black Oxide	Proto	**449N52**	
	7 - 21mm	Satin	Proto	**449P53**	
	7 - 32mm	Satin	Proto	**449P54**	
15° Offset, Long					
7	3/8 - 3/4"	Black Oxide	Proto	**449N51**	
10	7/16 - 1"	Satin	Proto	**449P49**	
11	1/4 - 5/16"	Satin	Proto	**449P47**	
14	3/8 - 1 1/4"	Black Oxide	Proto	**449N50**	
15	1/4 - 1"	Full Polish	Proto	**449N95**	
	5/16 - 1 1/4"	Satin	Proto	**449P46**	
16	1 5/16 - 2 1/2"	Satin	Proto	**449P45**	
26	1/4 - 2"	Satin	Proto	**449N97**	
31	5/16 - 2 1/2"	Satin	Proto	**449N96**	
15° Offset, Stubby					
7	10 - 18mm	Full Polish	SK	**12D211**	
	3/8 - 3/4"	Full Polish	SK	**12D210**	
11	1/4 - 3/4"	Full Polish	Proto	**22DH12**	*
14	6 - 19mm	Full Polish	Proto	**22DH27**	*
15° Offset, Stubby					
17	3/8 - 19mm	Satin	Westward	**54DG05**	

*Includes; * Tool Roll, † Storage Pouch*



Spline Box End, Anti-Slip
No. 19C590



Hex Box End, Long
No. 49H060



Spline Box End Style, Stubby
No. 12C523

Individual Combination Wrenches

Westward—15° offset is specially designed for knuckle clearance.

Proto®—Torque Plus™ allows for quick and easy socket engagement to the fastener flats and not the corners. Radius corners shift stress away from the corners and distribute over a larger area of the socket, minimizing slippage.

Anti-slip design (ASD) feature on open end locks the fasteners into place and increases the applied force to the flat of the fastener and away from the corner.

SK®—SureGrip® Drive Design drives the side of the fastener, instead of the corner. Provides increased strength and helps prevent the rounding of rusted or damaged fasteners.

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
6-Point Metric				
Hex Box End Style				
8mm	5½"	Full Polish	Westward	**36A289**
13mm	7"	Full Polish	Westward	**36A294**
14mm	7½"	Full Polish	Westward	**36A295**
15mm	7⅞"	Full Polish	Westward	**36A296**
16mm	8¼"	Full Polish	Westward	**36A297**
17mm	8⅞"	Full Polish	Westward	**36A298**
18mm	9⅝"	Full Polish	Westward	**36A299**
19mm	9¾"	Full Polish	Westward	**36A301**
20mm	10 11/16"	Full Polish	Westward	**36A302**
21mm	10 11/16"	Full Polish	Westward	**36A303**
Hex Box End Style, Anti-Slip				
6mm	4 59/64"	Full Polish	Proto	**22DG68**
7mm	4 53/64"	Satin	Proto	**19C591**
	5 11/64"	Full Polish	Proto	**22DG69**
8mm	5"	Satin	Proto	**1GG27**
9mm	5"	Satin	Proto	**1GG25**
	5 43/64"	Full Polish	Proto	**22DG71**
11mm	6 29/32"	Satin	Proto	**1AMC6**
	6 29/32"	Full Polish	Proto	**22DG73**
12mm	7 45/64"	Satin	Proto	**1AMC7**
	7 23/32"	Full Polish	Proto	**22DG74**
13mm	7 29/32"	Satin	Proto	**1AMC8**
	7 29/32"	Full Polish	Proto	**22DG75**
15mm	9 9/64"	Full Polish	Proto	**22DG77**
	9 5/32"	Satin	Proto	**1AMF0**
19mm	11 1/32"	Satin	Proto	**1AMF4**
	11 3/64"	Full Polish	Proto	**22DG81**
Hex Box End Style, Long				
10mm	5 29/32"	High Polish	Proto	**449N74**
	5 29/32"	Satin	Proto	**449P10**
14mm	8 13/16"	High Polish	Proto	**449N77**
	8 13/16"	Satin	Proto	**449P14**
16mm	9 35/64"	High Polish	Proto	**449N78**
	9 35/64"	Satin	Proto	**449P16**
17mm	10 9/32"	Satin	Proto	**449P18**
	10 19/64"	High Polish	Proto	**449N79**
18mm	10 11/16"	High Polish	Proto	**449N81**
	10 11/16"	Satin	Proto	**449P22**
Spline Box End Style, Long				
7mm	5⅝"	Full Polish	SK	**12C570**
8mm	6¼"	Full Polish	SK	**12C571**
9mm	6½"	Full Polish	SK	**12C572**
10mm	6¾"	Full Polish	SK	**12C573**
11mm	7⅜"	Full Polish	SK	**12C574**
12mm	7¾"	Full Polish	SK	**12C575**
13mm	8"	Full Polish	SK	**12C576**
14mm	8⅝"	Full Polish	SK	**12C577**
15mm	9"	Full Polish	SK	**12C578**
16mm	9¼"	Full Polish	SK	**12C579**

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
6-Point SAE				
Hex Box End Style				
1/8"	2 29/32"	Satin	Proto	**19ZC30**
5/32"	4"	Satin	Proto	**19ZA77**
3/16"	4"	Satin	Proto	**19ZA72**
7/32"	4"	Satin	Proto	**19ZC31**
1/4"	4"	Satin	Proto	**19ZA63**
9/32"	4"	Satin	Proto	**19ZA91**
5/16"	3 29/32"	Chrome	Proto	**19ZA75**
	5 3/8"	Satin	Proto	**19ZA60**
11/32"	4"	Satin	Proto	**19ZA65**
Hex Box End Style, Anti-Slip				
1/4"	4 7/8"	Satin	Proto	**22DG58**
	4 59/64"	Full Polish	Proto	**22DG82**
5/16"	5 1/16"	Full Polish	Proto	**22DG83**
11/32"	5 5/8"	Satin	Proto	**22DG59**
	5 43/64"	Full Polish	Proto	**22DG84**
7/16"	6 29/32"	Full Polish	Proto	**22DG86**
	7"	Satin	Proto	**1ALW3**
1/2"	7 29/32"	Full Polish	Proto	**22DG87**
	8"	Satin	Proto	**1ALW4**
3/4"	11"	Satin	Proto	**1ALW8**
	11 3/64"	Full Polish	Proto	**22DG91**
13/16"	11 13/16"	Full Polish	Proto	**22DG92**
	11 7/8"	Satin	Proto	**1ALW9**
7/8"	12 1/2"	Satin	Proto	**1ALX0**
	12 35/64"	Full Polish	Proto	**22DG93**
1"	14"	Satin	Proto	**1GG06**
	14 1/16"	Full Polish	Proto	**22DG95**
Hex Box End Style, Long				
3/8"	5 29/32"	High Polish	Proto	**449N75**
	6"	Satin	Proto	**449P12**
9/16"	8 13/16"	High Polish	Proto	**449N80**
	8 7/8"	Satin	Proto	**449P20**
5/8"	9 1/2"	Satin	Proto	**449P24**
	9 35/64"	High Polish	Proto	**449N83**
11/16"	10 1/4"	Satin	Proto	**449P26**
	10 19/64"	High Polish	Proto	**449N85**
15/16"	13 1/4"	Satin	Proto	**449P33**
	13 5/16"	High Polish	Proto	**449N87**
1 1/16"	15 1/4"	Satin	Proto	**449P37**
	15 1/4"	High Polish	Proto	**449N90**
1 1/8"	15 7/8"	Satin	Proto	**449P39**
	15 7/8"	High Polish	Proto	**449N91**
1 3/16"	15 7/8"	Satin	Proto	**449P41**
	15 7/8"	High Polish	Proto	**449N93**
1 1/4"	16 59/64"	Satin	Proto	**449P43**
	16 59/64"	Full Polish	Proto	**449N94**

CONTINUED

CONTINUED

Individual Combination Wrenches

WESTWARD PROTO SK

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
12-Point Metric				
Double Hex Box End Style, Long				
10mm	5 29/32"	Satin	Proto	449P09
14mm	8 13/16"	Satin	Proto	449P13
16mm	9 35/64"	Satin	Proto	449P15
17mm	10 3/32"	Satin	Proto	449P17
18mm	10 1/16"	Satin	Proto	449P21
23mm	12 59/64"	Satin	Proto	449P27
24mm	13 5/16"	Satin	Proto	449P28
27mm	15 15/64"	Satin	Proto	449P29
28mm	15 35/64"	Satin	Proto	449P30
29mm	15 55/64"	Satin	Proto	449P31
30mm	15 55/64"	Satin	Proto	449P34
32mm	16 59/64"	Satin	Proto	449P35
Double Hex Box End Style, Long, Aerospace Certified				
10mm	5 29/32"	Black Oxide	Proto	449N23
	5 29/32"	High Polish	Proto	449N59
14mm	8 13/16"	Black Oxide	Proto	449N24
	8 13/16"	High Polish	Proto	449N60
16mm	9 35/64"	Black Oxide	Proto	449N46
	9 35/64"	High Polish	Proto	449N58
17mm	10 3/32"	Black Oxide	Proto	449N21
	10 3/32"	High Polish	Proto	449N67
18mm	10 1/16"	Black Oxide	Proto	449N22
	10 1/16"	High Polish	Proto	449N68
23mm	12 59/64"	Black Oxide	Proto	449N30
	12 59/64"	High Polish	Proto	449N61
24mm	13 5/16"	Black Oxide	Proto	449N31
	13 5/16"	High Polish	Proto	449N62
27mm	15 15/64"	Black Oxide	Proto	449N32
	15 15/64"	High Polish	Proto	449N71
28mm	15 35/64"	Black Oxide	Proto	449N33
	15 35/64"	High Polish	Proto	449N72
30mm	15 55/64"	High Polish	Proto	449N88
	15 55/64"	Black Oxide	Proto	449N35
32mm	16 59/64"	High Polish	Proto	449N73
	16 59/64"	Black Oxide	Proto	449N36
Hex Box End Style, Anti-Slip				
7mm	5 5/32"	Satin	Proto	1AMC4
8mm	5 7/16"	Full Polish	Proto	22DG70
Spline Box End Style				
7mm	5"	Black Oxide	Westward	1EYJ6
	5 1/4"	Full Polish	Westward	36A222
8mm	5 11/32"	Black Oxide	Westward	1EYJ7
	5 1/2"	Full Polish	Westward	36A223
9mm	4 41/64"	Full Polish	SK	12C545
	5 7/8"	Black Oxide	Westward	1EYJ8
10mm	4 7/8"	Full Polish	SK	12C546
	6 1/4"	Full Polish	Westward	36A225
	6 1/4"	Black Oxide	Westward	1EYJ9
11mm	5 7/16"	Full Polish	SK	12C547
	6 1/2"	Satin	Westward	36A193
	6 5/8"	Black Oxide	Westward	1EYK1
12mm	5 23/32"	Full Polish	SK	12C548
	6 3/4"	Black Oxide	Westward	1EYK2
	6 3/4"	Full Polish	Westward	36A227
13mm	6 1/16"	Full Polish	SK	12C549
	7"	Black Oxide	Westward	1EYK3
14mm	6 23/32"	Full Polish	SK	12C550
	7 1/2"	Full Polish	Westward	36A229
	7 3/4"	Black Oxide	Westward	1EYK4
15mm	7 1/8"	Full Polish	SK	12C551
	7 7/8"	Black Oxide	Westward	1EYK5
16mm	7 1/2"	Full Polish	SK	12C552
	8 1/2"	Black Oxide	Westward	1EYK6
17mm	7 15/16"	Full Polish	SK	12C553
	9"	Black Oxide	Westward	1EYK7
18mm	8 3/8"	Full Polish	SK	12C554
	9 1/2"	Black Oxide	Westward	1EYK8
19mm	9 1/4"	Full Polish	SK	12C555
	9 3/4"	Black Oxide	Westward	1EYK9
20mm	9 25/32"	Full Polish	SK	12C556
	10 1/4"	Black Oxide	Westward	1EYL1
	10 1/16"	Satin	Westward	36A203
21mm	10 1/4"	Full Polish	SK	12C557
22mm	11 9/32"	Full Polish	SK	12C558
26mm	14 41/64"	High Polish	Proto	426D87
Spline Box End Style, Aerospace Certified				
6mm	4 29/32"	High Polish	Proto	426D43
7mm	5 5/32"	High Polish	Proto	426D45
8mm	5 13/32"	High Polish	Proto	426D48
9mm	5 21/32"	High Polish	Proto	426D52
11mm	3 15/16"	High Polish	Proto	426D58
	6 29/32"	High Polish	Proto	426D59
12mm	7 45/64"	High Polish	Proto	426D63
13mm	7 29/32"	Full Polish	Proto	426D65
15mm	9 5/32"	High Polish	Proto	426D70
16mm	4 7/8"	High Polish	Proto	426D72
17mm	5 1/16"	High Polish	Proto	426D74
19mm	11 1/32"	High Polish	Proto	426D78
20mm	11 27/64"	High Polish	Proto	426D80
21mm	11 13/16"	Full Polish	Proto	426D81
22mm	12 17/32"	High Polish	Proto	426D83
25mm	14 1/16"	High Polish	Proto	426D86
Spline Box End Style, Anti-Slip				
6mm	4 29/32"	Satin	Proto	19C588
7mm	5 5/32"	Black Oxide	Proto	19C590
8mm	5 13/32"	Black Oxide	Proto	19C592
	5 13/32"	Satin	Proto	1ALM2
9mm	5 21/32"	Satin	Proto	19C593
	5 21/32"	Black Oxide	Proto	19C594
11mm	6"	Black Oxide	Proto	1GG23
	6 29/32"	Satin	Proto	1ALM5
12mm	7"	Black Oxide	Proto	1GG22
	7 45/64"	Satin	Proto	1ALM6
13mm	7"	Black Oxide	Proto	1GG21
	7 29/32"	Satin	Proto	1ALM7
15mm	9"	Black Oxide	Proto	1GG19
	9 5/32"	Satin	Proto	1ALM9
19mm	11"	Black Oxide	Proto	1GG15
	11 1/32"	Satin	Proto	1ALN3
20mm	11"	Black Oxide	Proto	1GG14
	11 27/64"	Satin	Proto	1ALN4
21mm	11"	Black Oxide	Proto	1GG13
	11 13/16"	Satin	Proto	1ALN5
22mm	12"	Black Oxide	Proto	1GG11
	12 17/32"	Satin	Proto	1ALN6
25mm	14 1/16"	Satin	Proto	1ALN9
26mm	14 41/64"	Satin	Proto	1ALP0
36mm	19 3/8"	Satin	Proto	1ALP6
41mm	23"	Satin	Proto	1ALP7
46mm	25"	Satin	Proto	1ALP8
50mm	28"	Satin	Proto	1ALP9
Spline Box End Style, Anti-Slip, Aerospace Certified				
6mm	5"	Black Oxide	Proto	49H060
Spline Box End Style, Stubby				
10mm	3 3/4"	Full Polish	SK	12C523
12mm	4 1/8"	Full Polish	SK	12C524
13mm	4 1/4"	Full Polish	SK	12C525
14mm	4 9/16"	Full Polish	SK	12C526
15mm	4 3/4"	Full Polish	SK	12C527
17mm	5 1/8"	Full Polish	SK	12C528
18mm	5 1/4"	Full Polish	SK	12C529
Spline Box End Style, Stubby, Aerospace Certified				
6mm	3 1/4"	High Polish	Proto	426D42
7mm	3 3/8"	High Polish	Proto	426D44
8mm	3 1/2"	High Polish	Proto	426D47
9mm	3 5/8"	High Polish	Proto	426D51
10mm	3 3/4"	High Polish	Proto	426D55
12mm	4 1/8"	High Polish	Proto	426D62
	4 5/16"	High Polish	Proto	426D64
14mm	4 1/2"	High Polish	Proto	426D67
15mm	4 11/16"	High Polish	Proto	426D69
18mm	5 1/4"	High Polish	Proto	426D76
19mm	5 7/16"	High Polish	Proto	426D77
12-Point SAE				
Double Hex Box End Style, Long				
3/8"	6"	Satin	Proto	449P11
9/16"	8 7/8"	Satin	Proto	449P19
5/8"	9 1/2"	Satin	Proto	449P23
11/16"	10 1/4"	Satin	Proto	449P25
15/16"	13 1/4"	Satin	Proto	449P32
1 1/16"	15 1/4"	Satin	Proto	449P36
1 1/8"	15 7/8"	Satin	Proto	449P38
1 3/16"	15 7/8"	Satin	Proto	449P40
1 1/4"	16 7/8"	Satin	Proto	449P42
1 5/16"	17 5/8"	Satin	Proto	449P44
	17 5/8"	Black Oxide	Proto	449N40
Double Hex Box End Style, Long, Aerospace Certified				
3/8"	6"	Black Oxide	Proto	449N47
	6"	High Polish	Proto	449N69
9/16"	8 7/8"	Black Oxide	Proto	449N48
	8 7/8"	High Polish	Proto	449N70
5/8"	9 1/2"	High Polish	Proto	449N57
	9 1/2"	Black Oxide	Proto	449N49
11/16"	10 1/4"	Black Oxide	Proto	449N42
	10 1/4"	High Polish	Proto	449N63
15/16"	13 1/4"	Black Oxide	Proto	449N34
	13 1/4"	High Polish	Proto	449N66
1 1/16"	15 1/4"	Black Oxide	Proto	449N37
	15 1/4"	High Polish	Proto	449N64
1 1/8"	15 7/8"	High Polish	Proto	449N92
	15 7/8"	Black Oxide	Proto	449N38
1 1/4"	16 7/8"	Black Oxide	Proto	449N39
	16 7/8"	High Polish	Proto	449N65
Spline Box End Style				
1/4"	4"	Full Polish	SK	12C539
9/32"	4"	Full Polish	SK	12C540

CONTINUED

CONTINUED

Individual Combination Wrenches

WESTWARD PROTO SK®

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
5/16"	4 27/64"	Full Polish	SK	12C541
11/32"	4 3/8"	Full Polish	SK	12C542
3/8"	4 7/8"	Full Polish	SK	12C543
	6"	Black Oxide	Westward	1EYH1
7/16"	5 7/16"	Full Polish	SK	12C544
	6 5/8"	Black Oxide	Westward	1EYH2
1/2"	6 1/16"	Full Polish	SK	12C530
	7"	Black Oxide	Westward	1EYH3
9/16"	6 23/32"	Full Polish	SK	12C531
	7 3/4"	Black Oxide	Westward	1EYH4
5/8"	7 1/2"	Full Polish	SK	12C532
	8 1/2"	Black Oxide	Westward	1EYH5
11/16"	8 3/8"	Full Polish	SK	12C533
	8 7/8"	Full Polish	Westward	36A213
	9"	Black Oxide	Westward	1EYH6
3/4"	9 1/4"	Full Polish	SK	12C534
	9 3/4"	Black Oxide	Westward	1EYH7
13/16"	10 1/4"	Full Polish	SK	12C535
	10 43/64"	Black Oxide	Westward	1EYH8
	10 11/16"	Full Polish	Westward	36A215
	11 7/8"	Full Polish	Proto	19C585
7/8"	11 9/32"	Full Polish	SK	12C536
	11 1/2"	Full Polish	Westward	36A216
	11 5/8"	Black Oxide	Westward	1EYH9
	12 1/2"	Full Polish	Proto	19C589
15/16"	12 7/16"	Full Polish	SK	12C537
	12 7/16"	Full Polish	Westward	36A217
	12 1/2"	Black Oxide	Westward	1EYJ1
1"	13 11/32"	Black Oxide	Westward	1EYJ2
	13 19/32"	Full Polish	SK	12C538
1 1/16"	14 1/4"	Black Oxide	Westward	1EYJ3
1 1/8"	15 1/2"	Black Oxide	Westward	1EYJ4
1 1/4"	16 3/4"	Black Oxide	Westward	1EYJ5
1 3/8"	18 1/2"	Satin	Westward	1EYF4
1 7/16"	19 1/2"	Satin	Westward	1EYF5
1 1/2"	19 1/2"	Satin	Westward	1EYF6
1 5/8"	21 1/4"	Satin	Westward	1EYF7
1 11/16"	23"	Satin	Proto	426D91
1 3/4"	25"	Satin	Proto	426D92
1 13/16"	25"	Satin	Proto	426D93
1 7/8"	28"	Satin	Proto	426D94
2"	28"	Satin	Proto	426D95
2 1/4"	29 1/2"	Satin	Proto	426D96
Spline Box End Style, Aerospace Certified				
1/4"	4 7/8"	High Polish	Proto	426D49
9/32"	5 5/32"	High Polish	Proto	426D53
5/16"	5 3/8"	High Polish	Proto	426D56
11/32"	5 3/8"	High Polish	Proto	426D60
7/16"	7"	High Polish	Proto	426D68
1/2"	8"	High Polish	Proto	426D73
3/4"	11"	High Polish	Proto	426D85
13/16"	11 7/8"	High Polish	Proto	426D88
7/8"	12 1/2"	High Polish	Proto	426D89
1"	14"	High Polish	Proto	426D90
Spline Box End Style, Anti-Slip				
1/4"	4 7/8"	Satin	Proto	1AKW1
9/32"	5 5/32"	Satin	Proto	22DG64
5/16"	5 3/8"	Satin	Proto	1AKW2
7/16"	7"	Satin	Proto	1AKW5
	7"	Black Oxide	Proto	1ALH9
1/2"	8"	Satin	Proto	1AKW6
	8 7/8"	Black Oxide	Proto	1ALK0
3/4"	11"	Satin	Proto	1AKX0
	11"	Black Oxide	Proto	1ALK4

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
13/16"	11 7/8"	Satin	Proto	1AKX1
	11 7/8"	Black Oxide	Proto	1ALK5
7/8"	12 1/2"	Satin	Proto	1AKX2
	12 1/2"	Black Oxide	Proto	1ALK6
1"	14"	Satin	Proto	1AKX4
	14"	Black Oxide	Proto	1ALK8
1 3/8"	18 1/2"	Satin	Proto	1AKX9
	18 1/2"	Black Oxide	Proto	1GG03
1 7/16"	19 3/8"	Satin	Proto	1ALC0
	19 3/8"	Black Oxide	Proto	1GG02
1 1/2"	20 1/8"	Black Oxide	Proto	1ALL2
	20 1/4"	Satin	Proto	1ALC1
1 5/8"	23"	Satin	Proto	1ALC2
	23"	Black Oxide	Proto	1GG01
1 11/16"	23"	Black Oxide	Proto	1GF99
1 3/4"	25"	Black Oxide	Proto	1GF98
1 13/16"	25"	Black Oxide	Proto	1GF97
1 7/8"	28"	Black Oxide	Proto	1GF96
2"	28"	Black Oxide	Proto	1GF95
2 1/16"	29 1/2"	Satin	Proto	1ALC8
2 1/8"	29 1/2"	Satin	Proto	1ALC9
2 3/16"	29 1/2"	Satin	Proto	1ALF0
2 3/8"	31 1/2"	Satin	Proto	1ALF2
2 1/2"	31 1/2"	Satin	Proto	1ALF3
Spline Box End Style, Anti-Slip, Aerospace Certified				
5/16"	5 3/8"	Black Oxide	Proto	49H058
Spline Box End Style, Long				
1/4"	5 5/8"	Full Polish	SK	12C559
5/16"	6 1/4"	Full Polish	SK	12C560
3/8"	5-59/62"	High Polish	Proto	449N76
	6 3/4"	Full Polish	SK	12C561
7/16"	7 3/8"	Full Polish	SK	12C562
9/16"	8 5/8"	Full Polish	SK	12C563
	8 53/64"	High Polish	Proto	449N82
5/8"	9 1/4"	Full Polish	SK	12C564
	9 35/64"	High Polish	Proto	449N84
11/16"	10"	Full Polish	SK	12C565
	10 19/64"	High Polish	Proto	449N86
3/4"	11"	Full Polish	SK	12C566
13/16"	11 13/16"	Full Polish	SK	12C567
7/8"	12 1/2"	Full Polish	SK	12C568
15/16"	13 1/4"	Full Polish	SK	12C569
	13 9/16"	High Polish	Proto	449N89
Spline Box End Style, Spline				
11/32"	5 5/8"	Full Polish	Proto	19C584
1"	14"	Full Polish	Proto	19C583
Spline Box End Style, Stubby				
1/4"	3 1/4"	High Polish	Proto	426D46
9/32"	3 3/8"	High Polish	Proto	426D50
5/16"	3 1/2"	High Polish	Proto	426D54
11/32"	3 5/8"	High Polish	Proto	426D57
3/8"	3 3/4"	Full Polish	SK	12C516
	3 3/4"	High Polish	Proto	426D61
7/16"	3 15/16"	High Polish	Proto	426D66
	4"	Full Polish	SK	12C517
1/2"	4 1/4"	Full Polish	SK	12C518
	4 5/16"	High Polish	Proto	426D71
9/16"	4 1/2"	High Polish	Proto	426D75
	4 9/16"	Full Polish	SK	12C519
5/8"	4 7/8"	Full Polish	SK	12C520
	4 7/8"	High Polish	Proto	426D79
11/16"	5 1/16"	High Polish	Proto	426D82
	5 1/4"	Full Polish	SK	12C521
3/4"	5 7/16"	High Polish	Proto	426D84
	5 1/2"	Full Polish	SK	12C522

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready





12-Point, 40° Offset
No. 446G58



6-Point, Double Hex
No. 5MR53



6-Point, Hex, Square
No. 1ANT3



12-Point, Spline
No. 31XR46

Box and Open End Wrenches

PROTO® WESTWARD®

- Spline design allows numerous fastener head uses

Wrench Head Sizes	Overall Length	Finish	Brand	Item No.
Box End Wrench				
12 Points, 15° Offset				
12mm, 13mm	8 55/64"	Chrome	Proto	**4HD99**
16mm, 18mm	10 11/16"	Chrome	Proto	**4HJ05**
17mm, 19mm	11 23/64"	Chrome	Proto	**4HJ06**
1 1/4", 1 3/8"	20 1/4"	Satin	Proto	**1AML1**
1 1/4", 1 5/16"	19 1/4"	Satin	Proto	**1AML0**
1 1/16", 1 1/4"	18 1/4"	Satin	Proto	**1AMK9**
1 5/8", 1 11/16"	24 1/2"	Satin	Proto	**1AML5**
1 7/16", 1 1/2"	22 1/4"	Satin	Proto	**1AML3**
1 1/16", 3/4"	11 1/8"	Chrome	Proto	**1AMK1**
15/16", 1"	15 1/8"	Chrome	Proto	**1AMK6**
1/2", 9/16"	8 3/8"	Chrome	Proto	**1AMH7**
3/4", 7/8"	13 1/8"	Chrome	Proto	**1AMK3**
5/16", 3/8"	6 15/16"	Chrome	Proto	**1AMH4**
9/16", 5/8"	9 7/16"	Chrome	Proto	**1AMH8**
12 Points, 15° Offset, Half Moon Shape				
3/8", 3/4"	7 1/4"	Satin	Proto	**1AMP6**
7/16", 1/2"	5 3/4"	Satin	Proto	**1AMP4**
9/16", 5/8"	6 5/8"	Satin	Proto	**1AMP5**
12 Points, 15° Offset, Short				
1/2", 9/16"	5 3/8"	Satin	Proto	**1AMN0**
3/8", 7/16"	4 3/8"	Satin	Proto	**1AMM8**
5/8", 3/4"	6 1/8"	Satin	Proto	**1AMN3**
5/16", 3/8"	4 1/4"	Satin	Proto	**1AMM7**
12 Points, 15° Offset, Spline				
13/16", 15/16"	12 3/4"	Chrome	Proto	**2KGK1**
1/2", 9/16"	9 3/16"	Chrome	Proto	**2KGJ7**
1/4", 5/16"	7 1/4"	Chrome	Proto	**2KGJ5**
3/8", 7/16"	8 1/4"	Chrome	Proto	**2KGJ6**
9/16", 5/8"	9 3/4"	Chrome	Proto	**2KGJ8**
12 Points, 40° Offset				
6mm, 8mm	6 3/4"	Satin	Westward	**5MP97**
12mm, 14mm	8 3/4"	Satin	Westward	**5MR01**
13mm, 15mm	9 1/2"	Satin	Westward	**5MR02**
16mm, 18mm	10"	Satin	Westward	**5MR03**
17mm, 19mm	10"	Satin	Westward	**5MR04**
1/2", 9/16"	8 3/4"	Satin	Westward	**5MP93**
1/4", 5/16"	6 1/2"	Satin	Westward	**5MP90**
3/4", 7/8"	10 3/4"	Satin	Westward	**5MP96**
3/8", 7/16"	7 3/4"	Satin	Westward	**5MP91**
12 Points, 40 Degrees Offset				
15/16", 1"	14 1/8"	Satin	Westward	**446G59**
5/8", 11/16"	9 7/16"	Satin	Westward	**446G58**
12 Points, 60° Offset				
2"	13 1/2"	Black	Proto	**22DJ74**
3"	14 9/32"	Black	Proto	**22DJ86**
1 11/16"	13 9/32"	Black	Proto	**22DJ69**
1 13/16"	13 3/8"	Black	Proto	**22DJ71**
1 15/16"	13 1/2"	Black	Proto	**22DJ73**
1 1/2"	10 15/16"	Black	Proto	**22DJ67**
1 1/4"	10 11/16"	Black	Proto	**22DJ63**
1 1/8"	10 11/16"	Black	Proto	**22DJ61**
1 1/16"	10 9/16"	Black	Proto	**22DJ60**
1 3/4"	13 9/32"	Black	Proto	**22DJ70**
1 3/8"	10 13/16"	Black	Proto	**22DJ65**
1 3/16"	10 11/16"	Black	Proto	**22DJ62**
1 5/8"	10 15/16"	Black	Proto	**22DJ68**
1 5/16"	10 13/16"	Black	Proto	**22DJ64**
1 7/8"	13 3/8"	Black	Proto	**22DJ72**
1 7/16"	10 13/16"	Black	Proto	**22DJ66**
2 15/16"	14 9/32"	Black	Proto	**22DJ85**
2 1/2"	13 7/8"	Black	Proto	**22DJ80**
2 1/4"	13 3/8"	Black	Proto	**22DJ77**
2 1/8"	13 3/8"	Black	Proto	**22DJ75**
2 3/4"	14 1/32"	Black	Proto	**22DJ83**
2 3/8"	13 3/4"	Black	Proto	**22DJ79**
2 3/16"	13 5/8"	Black	Proto	**22DJ76**
2 5/16"	13 3/4"	Black	Proto	**22DJ78**
2 7/8"	14 5/32"	Black	Proto	**22DJ84**
3 1/8"	14 5/16"	Black	Proto	**22DJ87**
12 Points, 60° Offset, Deep Offset				
15/16", 1"	14"	Satin	Proto	**1AMN9**
1/2", 9/16"	9"	Satin	Proto	**1AMN5**
3/8", 7/16"	7 3/4"	Satin	Proto	**1AMN4**
Box Wrench Handle				
—	24"	Black	Proto	**22DJ58**
—	36"	Black	Proto	**22DJ59**
Flare Nut End Wrench				
6-Point, Double Hex				
9mm, 11mm	6"	Satin	Westward	**5MR53**
10mm, 12mm	6 1/2"	Satin	Westward	**5MR54**
13mm, 14mm	7"	Satin	Westward	**5MR56**
15mm, 17mm	7 1/2"	Satin	Westward	**5MR57**
1/2", 9/16"	7"	Satin	Westward	**5MR58**
3/4", 7/8"	9"	Satin	Westward	**5MR60**
3/8", 7/16"	6"	Satin	Westward	**5MR55**
5/8", 11/16"	7 1/2"	Satin	Westward	**5MR59**
6-Point, Hex, Square				
3/8"	5 3/4"	Satin	Proto	**1ANT3**
Open End Wrench				
15° and 60° Offset				
1/4", 7/32"	3"	Satin	Proto	**1ANP7**
15° and 75° Offset, Short				
11/32"	3 3/4"	Satin	Proto	**1ANN8**
1/2"	4 7/16"	Satin	Proto	**1ANP1**
3/8"	3 3/4"	Satin	Proto	**1ANN9**
5/8"	5 3/4"	Satin	Proto	**1ANP3**
7/16"	4 7/16"	Satin	Proto	**1ANP0**
9/16"	5 3/4"	Satin	Proto	**1ANP2**
15° Offset				
6mm, 7mm	4 1/2"	Satin	Proto	**426F46**
6mm, 7mm	5"	Satin	Westward	**1EYN1**
8mm, 9mm	5 1/8"	Satin	Proto	**426F50**
8mm, 9mm	5 1/2"	Satin	Westward	**1EYN2**
10mm, 11mm	5 3/4"	Satin	Westward	**1EYN3**
10mm, 11mm	5 3/4"	Satin	Proto	**426F51**
12mm, 13mm	6 3/8"	Satin	Proto	**426F67**
12mm, 13mm	6 1/2"	Satin	Westward	**1EYN4**
14mm, 15mm	7 1/2"	Satin	Westward	**1EYN5**
14mm, 15mm	7 19/32"	Satin	Proto	**426F77**
16mm, 17mm	8"	Satin	Westward	**1EYN6**
16mm, 17mm	8 15/64"	Satin	Proto	**426F86**
18mm, 19mm	8 55/64"	Satin	Proto	**426F88**
18mm, 19mm	9"	Satin	Westward	**1EYN7**
20mm, 22mm	10"	Satin	Westward	**1EYN8**
21mm, 23mm	10 1/4"	Satin	Westward	**36A312**
24mm, 26mm	11 3/8"	Satin	Proto	**426F91**
1 11/16", 1 13/16"	18 1/2"	Satin	Proto	**426F48**
1 1/2", 1 5/8"	17"	Satin	Proto	**426F47**
1 1/2", 1 5/8"	17 1/16"	Black	Proto	**1ANM7**
1 1/4", 1 5/16"	14 1/2"	Satin	Proto	**426F44**
1 1/4", 1 5/16"	14 5/8"	Black	Proto	**1ANM5**
1 1/16", 1 1/4"	13 9/16"	Satin	Proto	**426F43**
1 1/16", 1 1/4"	13 43/64"	Black	Proto	**1ANM4**
1 1/16", 1 1/8"	11 1/2"	Full Polished	Westward	**36A311**
1 1/16", 1 1/8"	12 3/8"	Black	Proto	**1ANM3**
1 1/16", 1 1/8"	12 5/8"	Satin	Proto	**426F42**
1 3/8", 1 7/16"	15 3/4"	Satin	Proto	**426F45**
1 3/8", 1 7/16"	15 7/8"	Black	Proto	**1ANM6**
1 7/8", 2"	20"	Satin	Proto	**426F49**
1 1/16", 3/4"	8 7/8"	Satin	Proto	**426F37**
1 1/16", 3/4"	9"	Satin	Westward	**1EYL7**
13/16", 7/8"	10"	Satin	Westward	**1EYL8**
13/16", 7/8"	10 1/8"	Satin	Proto	**426F40**
13/16", 7/8"	10 15/64"	Black	Proto	**1ANM1**
15/16", 1"	11"	Satin	Westward	**1EYL9**
15/16", 1"	11 31/64"	Black	Proto	**1ANM2**
15/16", 1"	11 1/2"	Satin	Proto	**426F41**
1/2", 9/16"	7"	Satin	Westward	**1EYL5**
1/2", 9/16"	7"	Satin	Proto	**426F33**
1/2", 9/16"	7 7/64"	Black	Proto	**1ANL5**
1/4", 5/16"	5"	Satin	Westward	**1EYL2**
3/4", 7/8"	9 1/2"	Satin	Proto	**426F39**
3/4", 7/8"	9 39/64"	Black	Proto	**1ANM0**
3/8", 5/16"	5 1/8"	Satin	Proto	**426F30**
3/8", 7/16"	5 3/4"	Satin	Westward	**1EYL3**
3/8", 7/16"	5 3/4"	Satin	Proto	**426F31**
3/8", 7/16"	5 7/8"	Black	Proto	**1ANL3**
3/16", 1/4"	3 7/8"	Satin	Proto	**426F28**
5/8", 11/16"	8"	Satin	Westward	**1EYL6**
5/8", 11/16"	8 1/4"	Satin	Proto	**426F36**
5/8", 3/4"	8 9/16"	Satin	Proto	**426F35**
5/16", 3/8"	5 1/4"	Black	Proto	**1ANL2**
7/16", 1/2"	6 1/4"	Satin	Westward	**1EYL4**
7/16", 1/2"	6 3/8"	Satin	Proto	**426F32**
7/16", 1/2"	6 7/16"	Black	Proto	**1ANL4**
9/16", 5/8"	7 5/8"	Satin	Proto	**426F34**
15° Offset, Extra Thin				
11/16", 3/4"	10"	Satin	Proto	**1ANN1**
13/16", 7/8"	10"	Satin	Proto	**1ANN2**
1/2", 9/16"	10"	Satin	Proto	**1ANM9**
7/16", 1/2"	10"	Satin	Proto	**1ANM8**
9/16", 5/8"	10"	Satin	Proto	**1ANN0**
15°, 60° Offset				
1"	9 1/2"	Full Polish	Proto	**426F73**
11mm	5"	Full Polish	Proto	**426F53**
12mm	5 1/4"	Full Polish	Proto	**426F55**
13mm	5 1/2"	Full Polish	Proto	**426F56**
17mm	6 1/2"	Full Polish	Proto	**426F62**
1 1/2"	14 1/2"	Full Polish	Proto	**426F81**
1 1/4"	12 1/4"	Full Polish	Proto	**426F76**
1 1/8"	11"	Full Polish	Proto	**426F75**
1 1/16"	10 1/4"	Full Polish	Proto	**426F74**
1 3/8"	13 3/4"	Full Polish	Proto	**426F79**
1 5/8"	15"	Full Polish	Proto	**426F82**
1 7/8"	19 3/4"	Full Polish	Proto	**426F85**
1 1/16"	6 1/2"	Full Polish	Proto	**426F68**
15/16"	8 3/4"	Full Polish	Proto	**426F72**
3/8"	4 3/4"	Full Polish	Proto	**426F54**
5/8"	6"	Full Polish	Proto	**426F66**
7/8"	8"	Full Polish	Proto	**426F71**
Ratcheting Flare Nut End Wrench				
12-Point, Spline				
10mm	5 1/2"	Black	Proto	**31XR46**
11mm	5 1/2"	Black	Proto	**31XR47**
12mm	5 1/2"	Black	Proto	**31XR48**
13mm	5 1/2"	Black	Proto	**31XR49**
14mm	7 5/16"	Black	Proto	**31XR50**
15mm	7 5/16"	Black	Proto	**31XR51**
16mm	7 5/16"	Black	Proto	**31XR52**
17mm	7 5/16"	Black	Proto	**31XR53**
18mm	7 5/16"	Black	Proto	**31XR54**
19mm	7 5/16"	Black	Proto	**31XR55**

PROTO® SK® ★ WESTWARD®

Crowfoot Wrenches

Proto®—Antislip design (ASD) features a locking groove to prevent slippage.



3/8" Drive, Flare Nut, No. 5NAX6



½" Drive No. 19C326

Socket Sizes	Overall Length	Item No.
¼ in Drive, Open End		
Proto		
¼ in	15⁄16 in	**449P60**
5⁄16 in	1 in	**449P62**
3⁄8 in	1 1⁄16 in	**449P65**
7⁄16 in	1 5⁄32 in	**449P68**
½ in	1 3⁄16 in	**449P70**
9⁄16 in	1 9⁄32 in	**449P71**
7 mm	15⁄16 in	**449P59**
8 mm	31⁄32 in	**449P61**
10 mm	1 1⁄16 in	**449P63**
11 mm	1 1⁄8 in	**449P64**
12 mm	1 5⁄32 in	**449P66**
13 mm	1 3⁄16 in	**449P67**
14 mm	1 1⁄4 in	**449P69**
⅜ in Drive, Flare Nut		
Proto		
⅜ in	1 13⁄16 in	**426G84**
7⁄16 in	1 ½ in	**426G85**
½ in	1 5⁄8 in	**426G86**
9⁄16 in	1 5⁄8 in	**426G87**
5⁄8 in	1 ¾ in	**426G89**
11⁄16 in	1 13⁄16 in	**426G90**
	1 13⁄16 in	**426G91**
¾ in	1 15⁄16 in	**426G93**
13⁄16 in	2 in	**426G95**
	2 in	**426G94**
15⁄16 in	2 3⁄8 in	**426G97**
1 in	2 ½ in	**426G98**
1 1⁄16 in	2 ¾ in	**426G99**
9 mm	1 27⁄32 in	**5NAX6**
SK		
10 mm	1 7⁄16 in	**12A316**
16 mm	1 11⁄16 in	**12A322**
17 mm	1 13⁄16 in	**12A323**
19 mm	1 13⁄16 in	**12A325**

Socket Sizes	Overall Length	Item No.
⅜ in Drive, Flare Nut, Aerospace Certified		
Proto		
5⁄8 in	1 ¾ in	**426G88**
¾ in	1 15⁄16 in	**426G92**
7⁄8 in	2 1⁄4 in	**426G96**
⅜ in Drive, Open End		
Proto		
⅜ in	1 13⁄64 in	**449P75**
7⁄16 in	1 3⁄16 in	**449P78**
½ in	1 5⁄16 in	**449P81**
9⁄16 in	1 9⁄32 in	**449P84**
5⁄8 in	1 ½ in	**449P87**
11⁄16 in	1 31⁄64 in	**449P90**
¾ in	1 41⁄64 in	**449P93**
13⁄16 in	1 5⁄8 in	**449P95**
7⁄8 in	1 19⁄32 in	**449P96**
15⁄16 in	1 5⁄8 in	**449P97**
1 in	1 49⁄64 in	**449P98**
1 1⁄4 in	2 5⁄32 in	**449R03**
1 11⁄16 in	2 15⁄16 in	**449R10**
1 5⁄8 in	2 13⁄16 in	**449R09**
1 9⁄16 in	2 ¾ in	**449R08**
1 ½ in	2 11⁄16 in	**449R07**
1 7⁄16 in	2 5⁄8 in	**449R06**
1 5⁄16 in	2 ½ in	**449R04**
1 ¾ in	2 13⁄16 in	**449R11**
1 3⁄16 in	2 9⁄32 in	**449R02**
1 1⁄8 in	2 7⁄32 in	**449R01**
1 1⁄16 in	2 3⁄16 in	**449P99**
1 ⅜ in	2 ½ in	**449R05**
1 15⁄16 in	3 1⁄4 in	**449R14**
1 7⁄8 in	3 1⁄8 in	**449R13**
1 13⁄16 in	3 1⁄16 in	**449R12**
2 ⅜ in	3 15⁄16 in	**449R21**
2 5⁄16 in	3 ¾ in	**449R20**

Socket Sizes	Overall Length	Item No.
2 1⁄4 in	3 11⁄16 in	**449R19**
2 3⁄16 in	3 ⅜ in	**449R18**
2 1⁄8 in	3 7⁄16 in	**449R17**
2 1⁄16 in	3 7⁄16 in	**449R16**
2 in	3 ⅜ in	**449R15**
2 15⁄16 in	4 15⁄16 in	**449R30**
2 7⁄8 in	4 15⁄16 in	**449R29**
2 13⁄16 in	4 13⁄16 in	**449R28**
2 7⁄16 in	4 1⁄4 in	**449R22**
2 ¾ in	4 11⁄16 in	**449R27**
2 11⁄16 in	4 9⁄16 in	**449R26**
2 5⁄8 in	4 ½ in	**449R25**
2 9⁄16 in	4 5⁄16 in	**449R24**
2 ½ in	4 ¼ in	**449R23**
3 in	5 in	**449R31**
9 mm	1 27⁄32 in	**449P72**
10 mm	1 11⁄32 in	**449P73**
11 mm	1 ⅜ in	**449P74**
12 mm	1 15⁄32 in	**449P76**
13 mm	1 ½ in	**449P77**
14 mm	1 ½ in	**449P79**
15 mm	1 5⁄8 in	**449P80**
16 mm	1 21⁄32 in	**449P82**
17 mm	1 23⁄32 in	**449P83**
18 mm	1 15⁄16 in	**449P85**
19 mm	1 15⁄16 in	**449P86**
20 mm	2 1⁄16 in	**449P88**
21 mm	2 3⁄32 in	**449P89**
22 mm	2 7⁄32 in	**449P91**
23 mm	2 11⁄32 in	**449P92**
24 mm	2 13⁄32 in	**449P94**
Westward		
⅜ in	1 5⁄16 in	**54PR34**
7⁄16 in	1 ⅜ in	**54PR35**
½ in	1 ⅜ in	**54PR36**
9⁄16 in	1 ½ in	**54PR37**

Socket Sizes	Overall Length	Item No.
5⁄8 in	1 5⁄8 in	**54PR38**
11⁄16 in	1 ¾ in	**54PR39**
¾ in	1 7⁄8 in	**54PR40**
13⁄16 in	2 in	**54PR41**
7⁄8 in	2 7⁄32 in	**54PR42**
15⁄16 in	2 11⁄32 in	**54PR43**
1 in	2 ½ in	**54PR44**
10 mm	1 5⁄16 in	**54PR46**
11 mm	1 ⅜ in	**54PR47**
12 mm	1 ⅜ in	**54PR48**
13 mm	1 9⁄16 in	**54PR49**
14 mm	1 5⁄8 in	**54PR50**
15 mm	1 11⁄16 in	**54PR51**
16 mm	1 11⁄16 in	**54PR52**
17 mm	1 ¾ in	**54PR53**
18 mm	1 ¾ in	**54PR54**
19 mm	1 15⁄16 in	**54PR55**
20 mm	2 in	**54PR56**
21 mm	2 in	**54PR57**
½ in Drive, Flare Nut		
Proto		
1 1⁄8 in	2 13⁄16 in	**426H01**
1 3⁄16 in	2 7⁄8 in	**426H02**
1 ½ in	3 7⁄16 in	**426H07**
1 1⁄4 in	3 in	**426H03**
1 5⁄16 in	3 1⁄16 in	**426H04**
1 7⁄16 in	3 ⅜ in	**426H06**
1 9⁄16 in	3 9⁄16 in	**426H08**
1 5⁄8 in	3 ¾ in	**426H09**
1 11⁄16 in	3 13⁄16 in	**426H10**
1 ¾ in	3 7⁄8 in	**426H11**
1 ⅜ in	3 5⁄16 in	**426H05**
1 13⁄16 in	4 in	**426H12**
1 7⁄8 in	4 1⁄4 in	**426H13**
1 15⁄16 in	4 5⁄16 in	**426H14**
2 in	4 7⁄16 in	**426H15**

Socket Sizes	Overall Length	Item No.
½ in Drive, Open End		
Proto		
15⁄16 in	2 13⁄16 in	**449R32**
1 in	2 13⁄16 in	**449R33**
1 1⁄16 in	2 7⁄8 in	**449R34**
1 1⁄8 in	3 in	**449R35**
1 3⁄16 in	3 in	**449R36**
1 9⁄16 in	3 5⁄16 in	**449R38**
1 1⁄4 in	3 5⁄16 in	**449R37**
1 ⅜ in	3 ⅜ in	**449R39**
1 13⁄16 in	3 7⁄8 in	**449R46**
1 ¾ in	3 13⁄16 in	**449R45**
1 ½ in	3 7⁄16 in	**449R41**
1 9⁄16 in	3 ½ in	**449R42**
1 5⁄8 in	3 ½ in	**449R43**
1 7⁄8 in	3 7⁄8 in	**449R47**
1 7⁄16 in	3 ⅜ in	**449R40**
1 11⁄16 in	3 13⁄16 in	**449R44**
2 in	3 15⁄16 in	**449R48**
2 ½ in	4 ½ in	**449R53**
2 7⁄16 in	4 7⁄16 in	**449R52**
2 ⅜ in	4 7⁄16 in	**449R51**
2 ¼ in	4 ⅜ in	**449R50**
2 1⁄8 in	4 1⁄16 in	**449R49**
24 mm	2 13⁄32 in	**19C326**
26 mm	3 in	**19C328**
27 mm	3 ½ in	**19C329**
28 mm	3 13⁄16 in	**19C330**
32 mm	3 7⁄8 in	**19C333**
35 mm	3 15⁄16 in	**19C334**
36 mm	4 1⁄16 in	**19C335**
38 mm	4 ⅜ in	**19C336**
41 mm	4 7⁄16 in	**19C337**
42 mm	4 7⁄16 in	**19C338**
46 mm	4 ½ in	**19C339**

PROTO® SK®

No. 2KGH8



Crowfoot Wrench Sets

No. of Pieces	Wrenches Included	Accessories	Brand	Mfr. Model	Item No.
¼" Drive					
Crowfoot					
6	¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16"	(1) Socket Rail, (6) Socket Clips	Proto	J47000CF	**2KGH8**
7	7, 8, 10, 11, 12, 13, 14mm	(1) Socket Rail, (7) Socket Clips	Proto	J47000MCF	**2KGH7**
8	¼" Drive: ¼, 5⁄16, ⅜, 7⁄16, ½, 9⁄16"	(2) ¼" Drive Locking Extensions 2", 6"	Proto	J47000CFL	**15V163**
⅜" Drive					
Crowfoot					
9	⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8"	(1) Socket Rail 13", (9) Socket Clips	Proto	J49004CF	**1UDT7**
15	⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4"	—	Proto	J49003CF	**2KGH9**
16	9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm	—	Proto	J49000MCF	**1UDT8**
21	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm ⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1"	—	Proto	J49000	**33TA24**
27	⅜" Drive: ⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 1 15⁄16, 2"	—	Proto	J49002CF	**15V155**
43	⅜" Drive: ⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 1 15⁄16, 2, 2 1⁄16, 2 1⁄8, 2 3⁄16, 2 1⁄4, 2 5⁄16, 2 3⁄8, 2 7⁄16, 2 1⁄2, 2 9⁄16, 2 5⁄8, 2 11⁄16, 2 3⁄4, 2 13⁄16, 2 7⁄8, 2 15⁄16, 3"	—	Proto	J49001CF	**15V171**
Crowfoot/Flare Nut					
8	5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16"	(1) Socket Rail 13", (8) Socket Clips	Proto	J4900FL	**1FX60**
10	⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 1"	Tray	SK	4508	**12D223**
11	9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	Tray	SK	4511	**12D224**
53	Crowfoot: ⅜" Drive: ⅜, 7⁄16, ½, 9⁄16, 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 1 15⁄16, 2, 2 1⁄16, 2 1⁄8, 2 3⁄16, 2 1⁄4, 2 5⁄16, 2 3⁄8, 2 7⁄16, 2 1⁄2, 2 9⁄16, 2 5⁄8, 2 11⁄16, 2 3⁄4, 2 13⁄16, 2 7⁄8, 2 15⁄16, 3", Flare Nut: ⅜" Drive: 5⁄8, 11⁄16, ¾, 13⁄16, 7⁄8, 15⁄16, 1, 1 1⁄16"	(2) ⅜" Drive Locking Extensions 6", 12"	Proto	J49000CFL	**15V156**
½" Drive					
Crowfoot					
15	1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 2"	—	Proto	J53001CF	**2KGJ1**
Crowfoot/Flare Nut					
15	1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 1 15⁄16, 2"	(1) Socket Rail, (15) Socket Clips	Proto	J53000CFFN	**2KGJ2**
22	½" Drive: 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 2, 2 1⁄8, 2 1⁄4, 2 3⁄8, 2 1⁄2"	—	Proto	J53000CF	**15V179**
39	Crowfoot: ½" Drive: 15⁄16, 1, 1 1⁄16, 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 2, 2 1⁄8, 2 1⁄4, 2 3⁄8, 2 1⁄2", Flare Nut: 1 1⁄8, 1 3⁄16, 1 1⁄4, 1 5⁄16, 1 3⁄8, 1 7⁄16, 1 1⁄2, 1 9⁄16, 1 5⁄8, 1 11⁄16, 1 3⁄4, 1 13⁄16, 1 7⁄8, 1 15⁄16, 2"	(2) ½" Drive Locking Extensions 5", 10"	Proto	J53000CFLFN	**15V180**



Service Wrench
No. 1GF16



Slugging Wrench
No. 1APX0



Spanner Wrench, Fixed Pin
No. 5RDZ3



Spanner Wrench, Adjustable Hook
No. 1APC4



Spanner Wrench, Adjustable Face
No. 1APC1



Spud Handle Wrench, Adjustable
No. 3R386



Spud Handle Open End Wrench
No. 1APX3



Spud Handle Box End Wrench
No. 1ARF3



Striking Wrench
No. 1APK2

PROTO® ★ WESTWARD®
GEDORE® S-K® KLEIN TOOLS®

Specialty Wrenches

Spanner wrenches can be used to tighten collars, locknut wings, and seal-packing nuts.

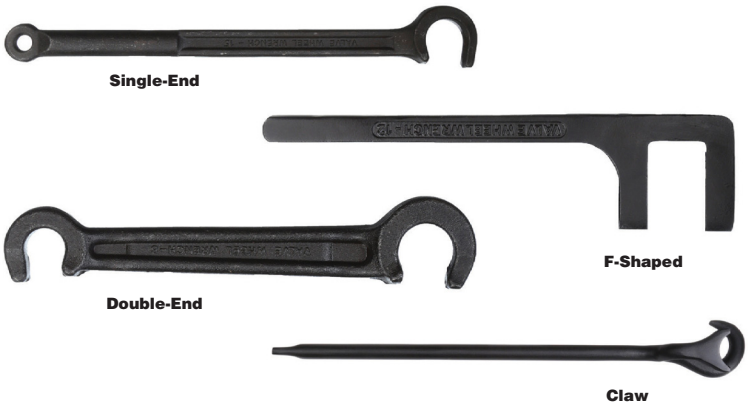
Striking wrenches have a large striking surface for surer contact and efficient transmittal of force. Short handle clears obstructions and allows use in close quarters. Heavy box walls provide greater torque transmission. Box opening designed to remain on fastener when wrench is struck.

Size	Overall Length	Brand	Item No.
Service Wrenches - SAE			
30° Head Angle			
⅛"	6¼"	Proto	**1GF28**
15/16"	6⅞"	Proto	**1GF27**
1"	6⅞"	Proto	**1GF26**
1 1/16"	6⅞"	Proto	**1GF25**
1⅛"	7"	Proto	**1GF24**
1 3/16"	7"	Proto	**1GF23**
1¼"	7"	Proto	**1GF22**
1 5/16"	7⅝"	Proto	**1GF21**
1⅜"	7⅝"	Proto	**1GF20**
1 7/16"	7⅝"	Proto	**1GF19**
1½"	7⅝"	Proto	**1GF18**
1 9/16"	7⅝"	Proto	**1GF17**
1⅝"	7⅝"	Proto	**1GF16**
1¾"	8½"	Proto	**1GF14**
1 13/16"	8½"	Proto	**1GF13**
1⅞"	8½"	Proto	**1GF12**
2"	8½"	Proto	**1GF10**
2⅛"	8½"	Proto	**1GF09**
2¼"	8½"	Proto	**1GF08**
2⅜"	9½"	Proto	**1GF07**
2½"	8½"	Proto	**1GF06**
Service Wrenches - Metric			
30° Head Angle			
22mm	6¼"	Proto	**19C241**
24mm	6⅞"	Proto	**19C242**
27mm	6⅞"	Proto	**19C243**
30mm	7"	Proto	**19C258**
32mm	7"	Proto	**19C244**
36mm	7⅝"	Proto	**19C259**
41mm	7⅝"	Proto	**19C248**
46mm	7⅝"	Proto	**19C251**
50mm	8½"	Proto	**19C253**
55mm	8½"	Proto	**19C255**
60mm	8½"	Proto	**19C256**
Slugging Wrenches - 12-Point Metric			
Offset Handle			
32mm	8⅜"	Proto	**1APT3**
36mm	8⅜"	Proto	**1APT4**
41mm	10⅛"	Proto	**19C613**
46mm	10⅛"	Proto	**19C614**
50mm	10¾"	Proto	**1APT7**
55mm	11"	Proto	**1APT8**
60mm	14½"	Proto	**1APT9**
65mm	14½"	Proto	**19C615**
70mm	14½"	Proto	**1APW1**
75mm	15¾"	Proto	**1APW2**
80mm	17 23/64"	Proto	**1APW3**
85mm	17 23/64"	Proto	**1APW4**
90mm	17¾"	Proto	**1APW5**
95mm	17¾"	Proto	**1APW6**
100mm	18"	Proto	**1APW7**
105mm	18"	Proto	**1APW8**
115mm	19 49/64"	Proto	**1APX0**
Slugging Wrenches - 12-Point SAE			
Offset Handle			
15/16"	8⅜"	Proto	**1APM7**
1 1/16"	8⅜"	Proto	**1APM8**
1½"	10"	Proto	**1APM9**
1⅝"	10⅛"	Proto	**1APN0**
1 11/16"	10⅛"	Proto	**1APN1**
1¾"	10⅛"	Proto	**19C607**
2"	10¾"	Proto	**1APN4**
2⅛"	11"	Proto	**19C610**
2 1/16"	15¾"	Proto	**19C611**
2 15/16"	15¾"	Proto	**1APR2**
3"	15¾"	Proto	**1APR3**
3⅛"	15¾"	Proto	**1APR4**
3½"	17⅜"	Proto	**1APR6**
3 25/32"	17⅜"	Proto	**1APR7**
3 29/32"	18"	Proto	**1APR8**
4⅛"	18"	Proto	**1APR9**
4 13/64"	18"	Proto	**1APT0**
4½"	19¾"	Proto	**1APT1**
4⅝"	19¾"	Proto	**1APT2**
Spanner Wrenches			
Fixed Pin			
⅛" Pin x ¾ to 2	6⅜"	Westward	**5RDZ3**
3/16" Pin x 1¼ to 3	8 1/16"	Westward	**5RDZ4**
¼" Pin x 1¼ to 3	8 1/16"	Westward	**5RDZ5**
¼" Pin x 2 to 4¾	11¼"	Westward	**5RDZ6**
⅜" Pin x 4½ to 6¼	12¼"	Westward	**5RDZ7**
4mm Pin x 40 to 42mm	6 45/64"	Gedore	**53PH22**
5mm Pin x 52 to 55mm	8 7/64"	Gedore	**53PH24**
8mm Pin x 110 to 115mm	13 13/64"	Gedore	**53PH29**
8mm Pin x 155 to 165mm	15 13/64"	Gedore	**53PH32**
10mm Pin x 180 to 195mm	18 5/16"	Gedore	**53PH33**
10mm Pin x 205 to 220mm	18 5/16"	Gedore	**53PH34**
16 to 18mm	4 3/16"	Gedore	**53PH17**
20 to 22mm	4 3/16"	Gedore	**53PH18**
25 to 28mm	5 5/16"	Gedore	**53PH19**
30 to 32mm	5 5/16"	Gedore	**53PH20**
34 to 36mm	6 45/64"	Gedore	**53PH21**
45 to 50mm	8 7/64"	Gedore	**53PH23**
58 to 62mm	9 13/32"	Gedore	**53PH25**
68 to 75mm	9 13/32"	Gedore	**53PH26**
80 to 90mm	11"	Gedore	**53PH27**
95 to 100mm	11"	Gedore	**53PH28**
120 to 130mm	13 13/64"	Gedore	**53PH30**
135 to 145mm	15 13/64"	Gedore	**53PH31**
Adjustable Pin			
⅛" Pin x 2"	6⅜"	Proto	**1FJ44**
3/16" Pin x 3"	8⅛"	Proto	**1FJ42**
3/16" Pin x ¾ to 2	6⅜"	Proto	**1FJ43**
¼" Pin x 3"	8⅛"	Proto	**1FJ41**
¼" Pin x 4¾"	11⅜"	Proto	**1FJ40**
⅜" Pin x 6¼"	12⅛"	Proto	**1FJ39**
Adjustable Hook			
¾ to 2"	6⅜"	Proto	**1APC4**
1¼ to 3"	8 1/16"	Proto	**1APC5**
2 to 4¾"	11⅜"	Proto	**1APC6**
4½ to 6¼"	12⅛"	Proto	**1APC7**
6 ⅛ to 8 ¾"	13¾"	Proto	**1FJ45**
Adjustable Face			
3/16" Pin x 2"	6⅜"	Proto	**1APC1**
¼" Pin x 3"	8¼"	Proto	**1APC2**
5/16" Pin x 4"	10⅜"	Proto	**1APC3**
3mm Pin x 330mm	7"	Gedore	**53PH35**
4mm Pin x 330mm	7"	Gedore	**53PH36**
5mm Pin x 432mm	9"	Gedore	**53PH37**
6mm Pin x 432mm	9"	Gedore	**53PH38**
8mm Pin x 432mm	9"	Gedore	**53PH39**
Spud Handle Adjustable Wrenches			
Tapered Handle			
1½"	16"	Proto	**3R386**
1½"	16"	SK	**22DK73**
Spud Handle Open End Wrenches			
Tapered Handle			
1 5/16"	11"	Klein Tools	**22DL61**
1½"	16"	Klein Tools	**2DGH4**
Rounded Handle			
1 5/8"	16⅜"	Westward	**447Z55**
Offset Head			
¾"	11 13/16"	Proto	**1APX3**
⅞"	14½"	Proto	**1APX7**
15/16"	12"	Proto	**19C644**
1"	14 3/16"	Proto	**1APX8**
1 1/16"	17¼"	Proto	**1APX9**
1 1/8"	17¼"	Proto	**1ARC0**
1¼"	19½"	Proto	**1ARC1**
1 5/16"	19 3/32"	Proto	**1ARC2**
1 7/16"	20"	Proto	**1ARC3**
1½"	20"	Proto	**1ARC4**
1⅝"	23"	Proto	**1ARC5**
1 13/16"	23¼"	Proto	**19C640**
2"	24"	Proto	**1ARC9**
Spud Handle Box End Wrenches - 12-Point - SAE			
Offset Head			
⅞"	11¾"	Proto	**1ARF1**
15/16"	13½"	Proto	**1ARF2**
1"	13½"	Proto	**1ARF3**
1 1/16"	15"	Proto	**1ARF4**
1⅛"	15"	Proto	**1ARF5**
1¼"	17"	Proto	**1ARF6**
1 5/16"	17 3/32"	Proto	**1ARF7**
1 7/16"	21 5/16"	Proto	**1ARF8**
1½"	18 45/64"	Proto	**1ARF9**
1⅝"	21"	Proto	**1ARH0**
1 13/16"	22"	Proto	**1ARH2**
2"	24½"	Proto	**1ARH4**
2⅜"	28"	Proto	**1ARH6**
2 9/16"	30"	Proto	**1ARH7**
Striking Wrenches - 6-Point - SAE			
Straight Handle			
1 1/16"	9⅞"	Proto	**1APK2**
1¼"	10¼"	Proto	**1APK3**
1 1/16"	10 19/32"	Proto	**1APK4**
1⅜"	10 15/16"	Proto	**1APK5**
1 13/16"	11 1/16"	Proto	**1APK6**
2"	11 21/32"	Proto	**1APK7**
2 3/16"	11 1/16"	Proto	**1APK8**
2⅜"	12⅜"	Proto	**1APK9**
2 9/16"	12 11/16"	Proto	**1APL0**
2¾"	12 13/16"	Proto	**1APL1**
2 15/16"	13 1/16"	Proto	**1APL2**
3⅛"	13 11/16"	Proto	**1APL3**
3½"	13 29/32"	Proto	**1APL4**
3⅞"	14½"	Proto	**1APL5**
Striking Wrenches - 12-Point - SAE			
Straight Handle			
1 1/16"	9⅞"	Proto	**19C618**
1⅛"	9⅞"	Proto	**19C620**
1¼"	10¼"	Proto	**19C619**
Striking Wrenches - 12-Point - Metric			
Offset Handle			
32mm	10¾"	Proto	**1APL6**
36mm	12"	Proto	**1APL7**
41mm	12"	Proto	**1APL8**
46mm	13"	Proto	**1APL9**
50mm	13"	Proto	**1APM0**
55mm	13"	Proto	**1APM1**
60mm	13"	Proto	**1APM2**
65mm	13"	Proto	**1APM3**
70mm	13"	Proto	**1APM4**
75mm	16¼"	Proto	**1APM5**
Striking Wrenches - 12-Point - SAE			
Offset Handle			
1"	8½"	Proto	**19C616**
1 1/16"	8½"	Proto	**1APC8**
1⅛"	8½"	Proto	**1APC9**
1 3/16"	11"	Proto	**19C622**
1¼"	10¾"	Proto	**1APF0**
1 5/16"	10¾"	Proto	**1APF1**
1⅜"	11½"	Proto	**19C624**
1 7/16"	12"	Proto	**1APF2**
1½"	12"	Proto	**1APF3**
1 9/16"	12"	Proto	**19C625**
1⅝"	12¼"	Proto	**1APF4**
1 11/16"	13 1/16"	Proto	**1APF5**
1¾"	13 1/16"	Proto	**1APF6**
1 13/16"	13 1/16"	Proto	**1APF7**
1⅞"	13 1/16"	Proto	**1APF8**
1 15/16"	13"	Proto	**19C621**
2"	13 1/16"	Proto	**1APF9**
2 1/16"	13½"	Proto	**19C626**
2⅛"	13⅞"	Proto	**1APH0**
2 3/16"	13½"	Proto	**1APH1**
2¼"	13½"	Proto	**1APH2**
2 5/16"	13½"	Proto	**1APH3**
2⅜"	13½"	Proto	**1APH4**
2 7/16"	13½"	Proto	**19C628**
2½"	13½"	Proto	**1APH5**
2 9/16"	13½"	Proto	**1APH6**
2⅝"	13½"	Proto	**1APH7**
2 11/16"	13½"	Proto	**19C627**
2¾"	13½"	Proto	**1APH8**
2⅞"	16"	Proto	**19C629**
2 15/16"	16"	Proto	**1APH9**
3"	16"	Proto	**1APK0**
3 1/16"	16"	Proto	**19C630**
3⅛"	16"	Proto	**1APK1**
3⅜"	18"	Proto	**19C632**
3½"	18"	Proto	**19C636**
3¾"	18"	Proto	**19C631**
3⅞"	18"	Proto	**19C633**
4⅛"	18"	Proto	**19C635**
4¼"	18"	Proto	**19C634**

WHEELER REX ★ WESTWARD®

Valve Wheel Wrenches

Size	Finish	L	Brand	Item No.
Single-End				
¾ in	Painted	8 in	Wheeler-Rex	**38L080**
1 in	Black Oxide	15 in	Westward	**5PWE8**
1 ⅜ in		15 ½ in	Westward	**5PWF1**
1 in	Painted	14 in	Wheeler-Rex	**38L081**
1 ⅜ in		18 in	Wheeler-Rex	**38L082**
2 ¼ in	Black Oxide	48 in	Westward	**5PWF0**
2 in	Powder-Coated	27 in	Westward	**5PWE9**
F-Shaped				
1 ⅜ in	Powder-Coated	12 in	Westward	**5PWF3**
1 ⅜ in		17 ⅜ in	Westward	**5PWF4**
1 ½ in		26 ⅝ in	Westward	**5PWF5**
Double-End				
½ in, 21/32 in	Black Oxide	8 in	Westward	**5PWE5**
11/16 in, 1 in		10 in	Westward	**5PWE6**
1 in, 1 5/16 in		17 ½ in	Westward	**5PWE7**
Claw				
1 ⅜ in, 1 ½ in	Black Oxide	21 ⅜ in	Westward	**5PWF2**



Adjustable Wrench Sets

★ WESTWARD® PROTO®

- Corrosion-resistant finish
- Drop-forged and heat-treated alloy steel construction

WESTWARD®

Smooth-turning knurl for quick, easy jaw opening adjustments.

PROTO®

All wrenches feature extra-wide jaw capacity and square jaw openings for strength and tight fit. No. 3R408 wrenches are designed with Clik-Stop® locking that holds the wrench jaw in place when in use. No. 3R409 has rugged I-beam style handle and reinforced stress areas. Radius corner design. No. 31CM95 wrenches have nonreflective black oxide finish for use where nonplated products are required.

No. of Pieces	Description	Jaw Cap.	Overall Length	Brand	Item No.
2	Chrome w/Cushion Grip	½", ¾"	4", 6"	Westward	**1NYD4**
	Chrome w/Cushion Grip	1", 1⅛"	8", 10"	Westward	**1NYD3**
	Chrome w/Cushion Grip	15/16", 1 5/16"	6", 10"	Proto	**31CM96**
3	Satin	1⅛", 1 5/16", 1½"	8", 10", 12"	Proto	**3R409**
	Satin	1⅛", 1 5/16", 1½"	8", 10", 12"	Proto	**54JG20**
	Chrome w/Cushion Grip	¾", 1", 1⅛"	6", 8", 10"	Westward	**1NYD2**
	Chrome w/Cushion Grip	1⅛", 1 5/16", 1½"	8", 10", 12"	Proto	**31CM97**
	Chrome w/Clik-Stop®	1⅛", 1 5/16", 1½"	8", 10", 12"	Proto	**3R408**
	Chrome	¾", 1", 1⅛"	6", 8", 10"	Westward	**1NYB8**
	Black Phosphate	¾", 1", 1⅛"	6", 8", 10"	Westward	**1NYB9**
	Black Oxide	1⅛", 1 5/16", 1½"	8", 10", 12"	Proto	**31CM95**



No. 3R409


No. 1NYD2

★ WESTWARD® PROTO®

Individual Adjustable Wrenches

WESTWARD®

Durable chrome vanadium construction stands up to long-term heavy-duty use.

Jaw Cap.	Finish	Overall Length	Westward Item No.	Proto Item No.
Cushion Grip				
1½"	Chrome	12"	**1NYC5**	**3R382**
1⅛"	Chrome	8"	**1NYC3**	**3R370**
1 5/16"	Chrome	10"	**1NYC4**	**3R376**
1 11/16"	Chrome	15"	**1NYC6**	—
½"	Chrome	4"	**1NYC1**	—
15/16"	Chrome	6"	**1NYC2**	**3R364**
21/32"	Chrome	4"	—	**3R358**
Plain				
2 7/16"	Chrome	24"	—	**3R404**
Plain Grip				
1½"	Black Oxide	12"	—	**3R385**
1½"	Chrome	12"	—	**3R381**
1⅛"	Black Oxide	8"	—	**3R373**
1⅛"	Black Phosphate	10"	**1NYB3**	—
1⅛"	Chrome	8"	**1NYA3**	—
1⅛"	Satin	8"	—	**3R369**
1⅜"	Chrome	12"	**1NYA5**	—
1 5/16"	Black Oxide	10"	—	**3R379**
1 5/16"	Chrome	10"	**1NYA4**	**3R375**
1 11/16"	Black Oxide	15"	—	**3R390**
1 11/16"	Chrome	15"	**1NYA6**	**3R388**
1 11/32"	Black Phosphate	12"	**1NYB4**	—
1 11/32"	Black Phosphate	15"	**1NYB5**	—
2 1/16"	Black Oxide	18"	—	**3R398**
2 1/16"	Chrome	18"	**1NYA7**	**3R396**
2½"	Black Phosphate	24 3/64"	**53KA28**	—

PROTO®

Clik-Stop® wrenches have moveable jaws that click each time they adjust to a different size, to aid in accurate sizing.

Jaw Cap.	Finish	Overall Length	Westward Item No.	Proto Item No.
2½"	Chrome	24 3/64"	**53KA29**	—
2 7/16"	Black Oxide	24"	—	**3R406**
½"	Black Oxide	4"	**1NYA9**	—
½"	Chrome	4"	**1NYA1**	—
¾"	Black Phosphate	6"	**1NYB1**	—
15/16"	Black Oxide	6"	—	**3R367**
15/16"	Chrome	6"	**1NYA2**	**3R363**
21/32"	Black Oxide	4"	—	**3R361**
21/32"	Chrome	4"	—	**3R357**
1"	Black Phosphate	8"	**1NYB2**	—
2"	Black Oxide	18"	**1NYB6**	—
Plain Grip, w/ Click-Stop®				
1½"	Black Oxide	12"	—	**3R387**
1½"	Chrome	12"	—	**3R383**
1 5/16"	Black Oxide	10"	—	**3R380**
1 5/16"	Chrome	10"	—	**3R377**
1 49/64"	Black Oxide	14 15/16"	—	**3R391**
1 49/64"	Chrome	14 15/16"	—	**3R389**
2 13/64"	Black Oxide	18⅛"	—	**3R399**
2 13/64"	Chrome	18⅛"	—	**3R397**
2 35/64"	Chrome	24⅛"	—	**3R405**
½"	Black Oxide	4"	—	**3R362**
½"	Chrome	4"	—	**3R359**
15/16"	Black Oxide	6"	—	**3R368**
15/16"	Chrome	6"	—	**3R365**
29/32"	Black Oxide	8⅛"	—	**3R374**
29/32"	Chrome	8⅛"	—	**3R371**


No. 1NYC1


No. 1NYA2


No. 3R361



No. 401K86

Plastic Handle Screwdriver Sets

WESTWARD STANLEY

No. of Pieces	Includes	Brand	Item No.
4	Square #0 x 4", #1 x 4", #2 x 4", #3 x 4"	Westward	401K86
6	Keystone Slotted ¼" x 4", ¼" x 6", Cabinet 3⁄16" x 3", 3⁄16" x 6", Phillips #1 x 4", #2 x 4"	STANLEY	3PY46
	Phillips #1 x 3", #2 x 4", Slotted 3⁄16" x 4", ¼"x 4", Cabinet 3⁄16" x 6", ¼" x 6"	Westward	401L74
8	Phillips #1 x 3", #2 x 4", #2 x 1½", #3 x 6", Slotted ¼" x 1½", ¼" x 4", 5⁄16" x 6", 3⁄8" x 8"	Westward	401L75
17	Phillips #0 x 2½", # 1 x 3", # 1 x 8", #2 x 4", #2 x 1½", #2 x 8", #3 x 6", #4 x 10", Slotted 1⁄8" x 2", 3⁄16" x 4", 3⁄16" x 8", ¼" x 1½", ¼" x 4", ¼" x 6", 5⁄16" x 6", 3⁄8" x 10", Cabinet 3⁄16" x 6"	Westward	401L76



No. 2RKP2

Cushion Grip Screwdriver Sets

KLEIN TOOLS STANLEY

No. of Pieces	Includes	Brand	Item No.
2	Includes (1) 5⁄16'' cabinet-tip and (1) #2 Phillips-tip screwdriver	Klein Tools	2DGE4
	Cabinet ¼" x 10", Phillips #2 x 10"	Klein Tools	2RKP1
4	Robertson Square Recess #0 x 4", #1 x 4", #2 x 4", #3 x 4"	Klein Tools	2RKP2
	Keystone Slotted 1⁄16" x 2", Cabinet 3⁄32" x 3", 1⁄8" x 3", Phillips #0 x 3"	Klein Tools	1YBP7
5	Keystone Slotted ¼" x 4", 5⁄16 x 6", Cabinet ¼" x 6", 3 1⁄16" x 6", Phillips #2 x 4" and reusable plastic container	Klein Tools	2RKN9
	Torx® T15 x 4", T20 x 4", T25 x 4", T27 x 4", T30 x 4"	Klein Tools	1YBR7
6	(2) Standard: ¼" x 4", 5⁄16" x 6", (2) Cabinet: 3⁄16" x 3", 3⁄16" x 6", (2) Phillips®: 1pt x 3", 2pt x 4"	STANLEY	1GZ06
7	Keystone Slotted ¼" x 4", 5⁄16" x 6", Cabinet 1⁄8" x 3", 1⁄8" x 4", 1⁄8" x 6", Phillips #1 x 3", #2 x 4"	Klein Tools	5LL68
	Keystone Slotted ¼" x 4", 5⁄16" x 6", Cabinet 3⁄16" x 6", ¼" x 6", Rotary Cabinet 3⁄16" x 6", Phillips #2 x 4", Screw Holding ¼" x 6"	Klein Tools	2DGP5
8	Cabinet 5⁄16" x 1½", ¼" x 4", 5⁄16" x 6", Cabinet 3⁄16" x 3", Phillips #1 x 3", #2 x 1½", #2 x 4", #3 x 6"	Klein Tools	2DGP6
10	Phillips #1 x 3", #2 x 4", #3 x 6", Square #1 x 4", #2 x 4", #3 x 4", Slotted 3⁄16" x 4", ¼" x 4", ¼" x 6", 5⁄16" x 6"	Westward	401L82

Ergonomic Grip Screwdriver Sets

PROTO WESTWARD STANLEY

No. of Pieces	Includes	Brand	Item No.
2	Keystone Slotted ¼" x 24", Phillips #2 x 24", Red Vinyl Pouch	Proto	13G271
	Keystone Slotted 1⁄8" x 2", Phillips #0 x 2", Red Vinyl Pouch	Proto	13G277
4	Keystone Slotted 1⁄8" x 3", 3⁄16" x 3", Phillips #0 x 3", #1 x 3"	Proto	13G276
	Robertson Square Recess #0 x 5", #1 x 5", #2 x 5", #3 x 5"	Proto	19ZA74
	Phillips #1 x 3", #2 x 4", Slotted 3⁄16" x 4", ¼" x 4"	Westward	401K87
5	Phillips #2 x 1 1⁄2", #1 x 3", #2 x 4", #3 x 6", #4 x 8"	STANLEY	53JT26
	Keystone ¼" x 1 1⁄2", ¼" x 4", 3⁄16" x 6", 3⁄8" x 8", 3⁄8" x 12"	STANLEY	53JT25
	Phillips #1 x 6", #2 x 8", Slotted 3⁄16" x 6", ¼" x 8", 5⁄16" x 8"	Westward	401K88
6	Phillips #1 x 3", #2 x 4", #3 x 6", Slotted 3⁄16" x 3", ¼" x 4", 5⁄16" x 6"	Westward	401L77
	Torx® T10 x 4", T15 x 4", T20 x 4", T25 x 4", T27 x 4", T30 x 4"	Westward	401L78
	Keystone Slotted 3⁄16" x 3", ¼" x 4", 5⁄16" x 6", Phillips #1 x 3", #2 x 4", #3 x 6", Red Vinyl Pouch	Proto	13G269
	Phillips #0 x 3", #1 x 3", #2 x 1½", #2 x 4", #3 x 6", #4 x 8", Red Vinyl Pouch	Proto	13G272
	Keystone Slotted 3⁄16" x 4", ¼" x 1½", ¼" x 4, 5⁄16" x 6", 3⁄8" x 8", 3⁄8" x 12", Red Vinyl Pouch	Proto	13G273
	Cabinet 3⁄16" x 4", ¼" x 1½", ¼" x 4, 5⁄16" x 6", 3⁄8" x 8", 3⁄8" x 10", Red Vinyl Pouch	Proto	13G274
	Keystone Slotted 5⁄16" x 3", 1⁄16" x 6", 25⁄64" x 8", Phillips #1 x 3", #2 x 4", #3 x 6"	Westward	23X839
	Keystone Slotted 3⁄16" x 4", ¼" x 1½", ¼" x 4", 5⁄16" x 6", 3⁄8" x 8", 3⁄8" x 10", Red Vinyl Pouch, Tether Attachment Points	Proto	24AK56
	Phillips #0 x 3", #1 x 3", #2 x 1½", #2 x 4", #3 x 6", #4 x 8", Red Vinyl Pouch, Tether Attachment Points	Proto	24AK63
7	12¼" Length Torx Plus® TP8 x 8", TP10 x 4", TP15 x 8", TP20 x 8", TP25 x 8",12-1/2" Length Torx Plus® TP27 x 8", TP30 x 8"	Proto	33TC05
	Keystone ¼" x 1 1⁄2", 3⁄16" x 3", ¼" x 4", 5⁄16" x 6", 3⁄8" x 8", 3⁄8" x 10", 3⁄8" x 12"	STANLEY	53JT24
8	Phillips: #0x2-1/2", #1x3", #2x4", #2x8", Slotted: 1⁄8"x2-1/2", 3⁄16"x6"(Cabinet Tip), ¼"x4", ¼"x8"(Cabinet Tip)	Westward	401L79
	Keystone Slotted 3⁄16" x 3", 3⁄16" x 4", 3⁄16" x 5", ¼" x 4", 5⁄16" x 6", Phillips #1 x 3", #2 x 4", #3 x 6"	Proto	13G267
	Keystone Slotted 3⁄16" x 3", ¼" x 1 1⁄2", ¼" x 4, 5⁄16" x 6", Phillips #1 x 3", #2 x 1 1⁄2", #2 x 4"	Proto	13G268
	Cabinet 3⁄16" x 6", ¼" x 10", ¼" x 12, ¼" x 16", Phillips #1 x 8", #2 x 8", #2 x 12", #2 x 16", Red Vinyl Pouch	Proto	13G270
	Keystone ¼" x 1 1⁄2", ¼" x 4", 5⁄16" x 6", 3⁄8" x 8", Phillips #2 x 1 1⁄2", #1 x 3", #2 x 4", #3 x 6"	STANLEY	53JT23
9	Torx® T8 x 3¼", T10 x 3¼", T15 x 3¼", T20 x 3¼", T25 x 3¼", T27 x 4", T30 x 4", T40 x 6", T45 x 6"	Proto	13G275
14	Phillips #0 x 2½", #1 x 3", #2 x 1½", #2 x 4", Cabinet 3⁄16" x 6", Slotted 1⁄8" x 2½", 1⁄8" x 4", 3⁄16" x 4", ¼" x 1½", ¼" x 4", 5⁄16" x 6", Torx® 15 x 4", T20 x 4", 6-in-1 PH1 x ST 3⁄16", PH2 x ST 9⁄32", Nut Driver ¼", 5⁄16"	Westward	401L80
18	Keystone ¼" x 1 1⁄2", 1⁄8" x 2", 3⁄16" x 3", ¼" x 4", 3⁄16" x 3", 3⁄16" x 6, 3⁄16" x 8", 5⁄16" x 6", 3⁄8" x 8", 3⁄8" x 10", Phillips #2 x 1 1⁄2", #0 x 2¾", #1 x 3", #1 x 10", #2 x 4", #2 x 10", #3 x 6", #4 x 8"	STANLEY	53JT27
26	Phillips: #0x2-1/2", #1x3", #2x1-1/2", #2x4", #2x8", #3x6", #4x8", Cabinet: 1⁄16"x6", ¼"x8", Slotted: 1⁄8"x2-1/2", 1⁄8"x4", 3⁄16"x4", ¼"x1-1/2", ¼"x4", ¼"x12", 5⁄16"x8", 3⁄8"x12", Torx: T10x4", T15x4", T20x4", T25x4", T30x4", Square Recess: #1x4", #2x4", 3 in. Scratch Awl, 4-in-1 Precision Screwdriver: PH0 x ST3/32", PH00 x ST1/8"	Westward	401L81



No. 401L78

Plastic Handle Screwdrivers

WESTWARD KLEIN TOOLS STANLEY



No. 2DGY6



No. 401L88

Tip Size	Shank Length	Brand	Item No.
Keystone Slotted			
Round Shank			
1⁄8"	2"	Westward	401M02
1⁄8"	2½"	Westward	401K89
1⁄8"	4"	Westward	401M03
1⁄8"	6"	Westward	401M04
3⁄16"	3"	Klein Tools	2DHB9
3⁄16"	4"	Westward	401L93
3⁄16"	8"	Westward	401L98
¼"	1½"	Westward	401L99
¼"	4"	Westward	401L94
¼"	6"	Westward	401L97
Square Shank			
5⁄16"	6"	Westward	401L89
5⁄16"	8"	Westward	401M52
3⁄8"	18"	Klein Tools	2DEV6
½"	10"	Westward	401L91
½"	12"	Westward	401L92
Cabinet Tip			
Round Shank			
3⁄16"	6"	Westward	401K90

Tip Size	Shank Length	Brand	Item No.
Slotted			
Square Shank			
3⁄8"	8"	Westward	401L90
3⁄8"	10"	Westward	401L96
Cabinet Tip			
Round Shank			
3⁄32"	2"	Klein Tools	2DEU8
1⁄8"	2"	Klein Tools	2DEU9
1⁄8"	3"	Klein Tools	2DGY4
1⁄8"	4"	Klein Tools	2DEV1
1⁄8"	6"	Klein Tools	2DEV2
1⁄8"	8"	Klein Tools	2DGY5
3⁄16"	4"	Klein Tools	2DGY6
3⁄16"	6"	Klein Tools	2DEV3
Phillips			
Round Shank			
#0	2½"	Klein Tools	2DFC4
#0	2½"	Westward	401M01
#0	3"	STANLEY	437H92
#1	8"	Klein Tools	2DFC5
#1	8"	Westward	401L87
#1, #3	5"	Klein Tools	2DHB6

Tip Size	Shank Length	Brand	Item No.
#2	1½"	Westward	401L88
#2	4"	Klein Tools	2DEV5
#2	4"	Westward	401L84
#2	8"	Klein Tools	2DFC8
#2	12"	Klein Tools	2DFC7
#2	20"	Klein Tools	2DFC6
Square Shank			
#3	6"	Westward	401L85
#4	10"	Westward	401L86
Square Recess			
Round Shank			
#0	4"	Westward	401K95
#1	4"	Westward	401K96
#2	4"	Westward	401K97
#3	4"	Westward	401K98
Pozidriv®			
Round Shank			
#2	6"	Westward	401K92
#3	6"	Westward	401K93
#4	8"	Westward	401K94
Round Shank			
#1	4"	Westward	401K91



No. 401M06



No. 4A844



No. 2DGC4

KLEIN TOOLS | STANLEY

★WESTWARD® | PROTO®

Cushion Grip Screwdrivers



No. 401M45



No. 3MJR3

Tip Size	Shank Length	Brand	Item No.
Keystone Slotted			
Round Shank			
1/16"	2"	Klein Tools	**1YBP4**
3/16"	3"	STANLEY	**6R531**
3/16"	4"	Westward	**401M05**
1/4"	4"	Westward	**401M06**
1/4"	6"	Westward	**401M31**
1/4"	1 1/2"	STANLEY	**6R529**
Round with Hex Bolster Shank			
1/4"	3"	Klein Tools	**2DFX5**
1/4"	4"	STANLEY	**6R533**
1/4"	4"	Klein Tools	**2DFX6**
5/16"	6"	Klein Tools	**2DFX7**
3/8"	8"	Klein Tools	**2DFX8**
3/8"	10"	Klein Tools	**2DFX2**
3/8"	12"	Klein Tools	**2DFX3**
Square Shank			
1/4"	4"	Klein Tools	**4A845**
5/16"	6"	Klein Tools	**4A846**
5/16"	6"	Westward	**401M44**
3/8"	8"	Klein Tools	**4A847**
1/2"	12"	Klein Tools	**2RKN8**
Keystone Slotted, Demolition Screwdriver			
Round Shank			
1/4"	4"	Klein Tools	**21HD51**
5/16"	7"	Klein Tools	**21HD52**

Tip Size	Shank Length	Brand	Item No.
Cabinet Tip			
Round Shank			
3/32"	3"	Klein Tools	**1YBP5**
3/32"	4"	Klein Tools	**2DFY3**
1/8"	3"	Klein Tools	**2DFY5**
1/8"	4"	Klein Tools	**2DGV9**
1/8"	4"	Klein Tools	**15W151**
1/8"	8"	Klein Tools	**2DFY6**
1/8"	10"	Klein Tools	**2DFY4**
3/16"	3"	Klein Tools	**2DGV1**
3/16"	4"	Klein Tools	**2DGV2**
3/16"	6"	STANLEY	**6R547**
3/16"	6"	Klein Tools	**2DGV3**
3/16"	6"	Westward	**401L05**
3/16"	8"	Klein Tools	**2DFW9**
3/16"	10"	Klein Tools	**2DGU9**
1/4"	4"	Klein Tools	**5LL57**
1/4"	6"	Klein Tools	**5LL58**
1/4"	6"	Westward	**401L06**
1/4"	8"	Klein Tools	**5LL59**
1/4"	10"	Klein Tools	**2DFY1**
5/16"	1 1/2"	Klein Tools	**4A844**
Round Shank, Non Insulated			
3/16"	3"	Klein Tools	**2DFY7**
3/16"	6"	Klein Tools	**2DGW1**
3/16"	8"	Klein Tools	**2DFZ3**
5/16"	6"	Klein Tools	**2DFY9**

Tip Size	Shank Length	Brand	Item No.
3/8"	8"	Klein Tools	**2DFZ1**
Round with Hex Bolster Shank, Non Insulated			
1/4"	4"	Klein Tools	**2DFY8**
Cabinet Tip, Crank Action Screwdriver			
Round Shank			
3/16"	4"	Klein Tools	**2DGC2**
3/16"	6"	Klein Tools	**2DGC3**
1/4"	6"	Klein Tools	**2DGC4**
Cabinet Tip, Wire Bending Screwdriver			
Round Shank			
1/4"	4"	Klein Tools	**2DFY2**
Phillips			
Round Shank			
#0	3"	Klein Tools	**1YBP3**
#1	3"	Westward	**401M45**
#1	3"	Klein Tools	**4A849**
#1	3"	STANLEY	**6R487**
#2	4"	Klein Tools	**4A848**
#2	4"	STANLEY	**6R489**
#2	4"	Westward	**401M46**
#2	7"	Klein Tools	**5LL56**
#2	10"	Klein Tools	**2DGV6**
#2	1 1/2"	Klein Tools	**2DGV5**
#3	6"	Klein Tools	**4A850**
#3	6"	STANLEY	**6R491**
Square Shank			
#3	6"	Westward	**401M22**

Tip Size	Shank Length	Brand	Item No.
Phillips, Crank Action Screwdriver			
Round Shank			
#2	6"	Klein Tools	**2DGX2**
Phillips, Wire Bending Screwdriver			
Round Shank			
#2	4"	Klein Tools	**2DGV7**
Square			
Round Shank			
#0	4"	Klein Tools	**2RKP3**
#1	4"	Klein Tools	**2DGB8**
#1	4"	Westward	**401M47**
#1	8 1/4"	Klein Tools	**3MJR1**
#2	4"	Klein Tools	**2DGG7**
#2	4"	Westward	**401M48**
#2	8"	Klein Tools	**3MJR3**
#3	4"	Klein Tools	**2DGB9**
#3	4"	Westward	**401M49**
#3	8"	Klein Tools	**3MJR5**
Torx®			
Round Shank			
T15	4"	Klein Tools	**2DFH7**
T20	4"	Klein Tools	**2DFH8**
T25	4"	Klein Tools	**2DFH9**
T27	4"	Klein Tools	**2DFJ1**
T30	4"	Klein Tools	**2DFJ2**


No. 13G966


No. 13G288



No. 53JR99

★WESTWARD®
PROTO®
STANLEY

Ergonomic Grip Screwdrivers


No. 401M20



No. 401K99



No. 53JT18

Tip Size	Shank Length	Overall Length	Brand	Item No.
Keystone Slotted				
Round Shank				
1/8"	2 1/2"	5 3/4"	Westward	**401M24**
1/8"	3"	6 7/32"	Westward	**401M42**
1/8"	4"	7 7/32"	Westward	**401M25**
3/16"	4"	8 1/16"	Westward	**401M26**
3/16"	6"	10 1/16"	Westward	**401M27**
3/16"	8"	12 1/16"	Westward	**401M28**
1/4"	1 1/2"	3 3/4"	Proto	**13G966**
1/4"	1 1/2"	4 1/16"	Westward	**401M29**
1/4"	1 1/2"	6 5/8"	STANLEY	**53JT28**
1/4"	4"	8 1/2"	STANLEY	**4NY34**
1/4"	4"	8 1/2"	Proto	**13G967**
1/4"	4"	8 17/32"	Westward	**401M30**
1/4"	6"	10 1/2"	Proto	**13G970**
1/4"	8"	12 17/32"	Westward	**401L03**
1/4"	12"	16 17/32"	Westward	**401M32**
5/16"	4"	8 3/4"	Proto	**13G975**
5/16"	6"	10 3/4"	Proto	**13G976**
5/16"	6"	13 1/16"	STANLEY	**53JT30**
5/16"	8"	12 3/4"	Proto	**13G979**
3/8"	8"	13"	Proto	**13G980**
3/8"	10"	15"	Proto	**13G983**
3/8"	12"	16 15/16"	Proto	**13G984**
Round with Hex Bolster Shank				
3/16"	3"	7 1/4"	Proto	**13G288**
5/16"	6"	10 3/4"	Proto	**13G977**
3/8"	8"	13"	Proto	**13G981**
Square Shank				
5/16"	6"	10 7/8"	Westward	**401L95**

Tip Size	Shank Length	Overall Length	Brand	Item No.
5/16"	8"	12 7/8"	Westward	**401M33**
3/8"	12"	16 7/8"	Westward	**401L04**
Keystone Slotted, Fluted Handle				
Round Shank				
1/8"	2"	4 1/2"	STANLEY	**53JR95**
1/4"	1 1/2"	3 11/16"	STANLEY	**53JT07**
1/4"	4"	8 3/16"	STANLEY	**53JT08**
1/4"	4"	8 5/16"	STANLEY	**53JR99**
1/4"	6"	10 1/4"	STANLEY	**53JT01**
5/16"	6"	11"	STANLEY	**53JT02**
5/16"	6"	11 1/8"	STANLEY	**53JT09**
5/16"	9"	13"	STANLEY	**53JT03**
3/8"	8"	13 1/4"	STANLEY	**53JT06**
3/8"	8"	13 7/16"	STANLEY	**53JT10**
3/8"	10"	15 1/4"	STANLEY	**53JT11**
3/8"	10"	15 1/2"	STANLEY	**53JT04**
3/8"	12"	17 5/16"	STANLEY	**53JT05**
Square Shank				
3/8"	12"	17 5/16"	STANLEY	**53JT12**
Keystone Phillips Demolition Screwdriver				
Square Shank				
#1	3"	7 1/8"	Westward	**401M14**
Keystone Slotted Demolition Screwdriver				
5/16"	6"	10 31/32"	Westward	**401M10**
5/16"	8"	12 31/32"	Westward	**401M11**
Bolster				
Round Shank				
#1	3"	7 1/4"	Proto	**13G990**
#2	4"	8 1/2"	Proto	**13G995**

Tip Size	Shank Length	Overall Length	Brand	Item No.
#3	6"	10 3/4"	Proto	**13H002**
Cabinet Tip				
Round Shank				
1/8"	2"	5 5/16"	Proto	**13G281**
1/8"	3"	6 5/16"	Proto	**13G282**
1/8"	4"	7 5/16"	Proto	**13G283**
1/8"	6"	9 5/16"	Proto	**13G284**
1/8"	8"	11 5/16"	Proto	**13G285**
3/16"	3"	6 5/16"	Proto	**13G286**
3/16"	3"	7 1/4"	Proto	**13G287**
3/16"	4"	8 1/4"	Proto	**13G289**
3/16"	5"	9 1/4"	Proto	**13G291**
3/16"	6"	10 1/16"	Westward	**401L01**
3/16"	6"	10 1/4"	Proto	**13G292**
3/16"	8"	12 1/4"	Proto	**13G293**
3/16"	12"	16 1/4"	Proto	**13G295**
1/4"	8"	12 17/32"	Westward	**401L02**
1/4"	10"	14 1/2"	Proto	**13G971**
1/4"	12"	16 1/2"	Proto	**13G972**
1/4"	16"	20 1/2"	Proto	**13G973**
Cabinet, Fluted Handle				
Round Shank				
1/8"	4"	6 5/8"	STANLEY	**53JT13**
1/8"	6"	8 1/2"	STANLEY	**53JT14**
3/16"	6"	9 3/4"	STANLEY	**53JT15**
3/16"	8"	11"	STANLEY	**53JT16**
3/16"	12"	15 3/4"	STANLEY	**53JT17**

Tip Size	Shank Length	Overall Length	Brand	Item No.
Phillips				
Round Shank				
#0	2"	5 5/16"	Proto	**13G986**
#0	2 1/2"	5 3/4"	Westward	**401M18**
#0	3"	6 7/32"	Westward	**401M43**
#0	3"	6 5/16"	Proto	**13G987**
#1	3"	6 5/16"	Proto	**13G988**
#1	3"	7 1/16"	Westward	**401M19**
#1	3"	7 1/4"	Proto	**13G989**
#1	8"	12 1/4"	Proto	**13G991**
#2	1 1/2"	3 1/4"	Proto	**13G992**
#2	1 1/2"	4 1/16"	Westward	**401M20**
#2	4"	8 1/2"	Proto	**13G994**
#2	4"	8 17/32"	Westward	**401K99**
#2	4"	11 3/16"	STANLEY	**53JT29**
#2	8"	12 1/2"	Proto	**13G996**
#2	8"	12 17/32"	Westward	**401M21**
#2	12"	16 1/2"	Proto	**13G997**
#2	16"	20 1/2"	Proto	**13G998**
#2	24"	28 1/2"	Proto	**13G999**
#3	6"	10 3/4"	Proto	**13H001**
#4	8"	13"	Proto	**13H003**
Square Shank				
#3	6"	10 7/8"	Westward	**401M50**
#4	8"	12 7/8"	Westward	**401M23**
Phillips, Fluted Handle				
Round Shank				
#1	3"	6 7/8"	STANLEY	**53JT18**
#2	1 1/2"	3 1/2"	STANLEY	**53JT22**

CONTINUED ▶

CONTINUED

Ergonomic Grip Screwdrivers

STANLEY PROTO WESTWARD

Tip Size	Shank Length	Overall Length	Brand	Item No.
#2	4"	8⅛"	STANLEY	**53JT19**
#2	10"	14¼"	STANLEY	**53JT21**
#3	6"	11⅛"	STANLEY	**53JT20**
Square				
Round Shank				
#0	5"	9⁵⁄₁₆"	Proto	**53JT35**
#1	4"	8⅛"	Westward	**401M34**
#2	4"	8¹⁷⁄₃₂"	Westward	**401M35**

Tip Size	Shank Length	Overall Length	Brand	Item No.
Robertson Square Recess				
Round Shank				
#1	5"	9¼"	Proto	**13H032**
Torx®				
Round Shank				
T10	4"	8⅛"	Westward	**401M36**
T15	4"	8⅛"	Westward	**401M37**
T20	4"	8⅛"	Westward	**401M38**
T25	4"	8⅛"	Westward	**401M39**

Tip Size	Shank Length	Overall Length	Brand	Item No.
T27	4"	8¹⁷⁄₃₂"	Westward	**401M40**
T30	4"	8¹⁷⁄₃₂"	Westward	**401M41**
Round Shank				
T10	3¼"	7½"	Proto	**13H005**
T15	3¼"	7½"	Proto	**13H006**
T20	3¼"	7½"	Proto	**13H007**
T25	3¼"	7½"	Proto	**13H008**
T27	4"	8½"	Proto	**13H009**
T30	4"	8½"	Proto	**13H010**

Tip Size	Shank Length	Overall Length	Brand	Item No.
T40	6"	10¾"	Proto	**13H011**
T8	3¼"	7½"	Proto	**13H004**
Tamper Resistant Torx®				
Round Shank				
TR10	8"	12¼"	Proto	**33TC07**
TR15	8"	12¼"	Proto	**33TC08**
TR20	8"	12¼"	Proto	**33TC09**
TR25	8"	12¼"	Proto	**33TC10**
TR27	8"	12¼"	Proto	**33TC11**
TR30	8"	12¼"	Proto	**33TC12**

Demolition Screwdrivers

WESTWARD



No. 401M15

Tip Size	Shank Length	Item No.
Ergonomic with Non-Slip Surface		
Phillips		
#2	4"	**401M15**
#2	6"	**401M16**
#3	6"	**401M17**
Slotted		
³⁄₁₆"	3"	**401M07**
¼"	4"	**401M08**

Tip Size	Shank Length	Item No.
¼"	6"	**401M09**
⅜"	8"	**401M12**
⅜"	10"	**401M13**
Keystone Slotted Demolition Screwdriver		
Slotted		
⁵⁄₁₆"	6"	**401M10**
⁵⁄₁₆"	8"	**401M11**



No. 3ZH32



No. 6TFG1



No. 2GXG3

GENERAL WESTWARD

STANLEY KLEIN TOOLS

Specialty Screwdrivers

No. of Pieces	Description	Includes	Brand	Mfr. Model	Item No.
Offset Screwdrivers					
1	Ratcheting Offset	¼ & ⅜" Slotted	General	807	**3ZH32**
1	Ratcheting Offset	#1 & #2 Phillips	General	807X	**3ZH37**
1	Ratcheting Offset	¼" Slotted & #2 Phillips	General	807SX	**3ZH36**
2	Offset Keystone Slotted/Phillips	PH1 x ST3/16", PH2 x ST1/4"	Westward	401L07	**401L07**
5	Ratcheting Offset Set	Slotted ¼", ⅜", Phillips #1, #2, Ratchet Handle	General	8075	**3ZH33**
19	Ratcheting Offset Screwdriver Set	Slotted ¼", ³⁄₁₆", Phillips #1, #2, Torx® T15, T20, Hex ⅛", ⁵⁄₃₂", Square #1, #2, Sockets ⁷⁄₃₂", ¼", ⁹⁄₃₂", ⁵⁄₁₆", ¹¹⁄₃₂", ⅜", Ratchet Handle, 3⅜" Extension Shaft, ¼" Square Drive Adapter, Zippered Case	General	80078	**6TFG1**
Saw and Screwdriver Set					
14	Utility Saw and Multi-Bit Screwdriver	6 x 24" TPI Metal/PVC, 6 x 10" TPI Wood and 6 x 6" TPI Drywall/Sheetrock Reciprocating Blades, Slotted ³⁄₁₆, ¼", Phillips #1,#2, Torx® T15, T20, Square Recessed #1, ¼" Drive Adapter Insert Bits, 4" Magnetic Bit Holder with ¼" Hex Shank and Nylon Hol	General	86014	**1JGL7**
Pocket Screwdrivers					
3	4-in-1 Pocket Multi-Bit Screwdriver	—	STANLEY	66-344	**2GXG3**
Screw-Holding Screwdriver Sets					
3	Slotted Set	Keystone Slotted ³⁄₁₆" x 3", ¼" x 4", ⁵⁄₁₆" x 6", Vinyl Pouch	Klein Tools	SK234	**2DHC7**



No. 3EJU5



No. 36HV47

Beta Wera BE A TOOL REBEL

Multicomponent Stainless Steel Screwdriver Sets

- Keystone Slotted/Phillips

No. 3EJU5—Kraftform®-shaped plastic handles provide 3 options: fast turn, torque transfer, and precision, for reduced fastening times. Features corrosion-resistant INOX stainless steel blades with a rough, lasertip surface for improved grip. Includes ⅛" x 3⅛", ⁵⁄₃₂" x 4", ⁷⁄₃₂" x 5", ¼" x 6", Phillips #1 x 3⅛", #2 x 4", and storage rack.

No. 36HV47—Ergonomically designed handle helps improve grip and comfort. Has tip-ID that identifies the screwdriver type and its tip style indicated on top of the handle. Corrosion-resistant. Includes ⅛" x 2", ⅛" x 2¹⁵⁄₁₆", ³⁄₁₆" x 3¹⁵⁄₁₆", (2) ¼" x 5¹⁵⁄₁₆", Phillips #0 X 2⅜", #1 X 3⅛", #2 X 3¹⁵⁄₁₆".

No. of Pieces	Tip Size	Brand	Item No.
6	#1, #2, ¼ in, ⅛ in, ⁵⁄₃₂ in, ⁷⁄₃₂ in	Wera	**3EJU5**
8	#0, #1, #2, ¼ in, ⅛ in, ³⁄₁₆ in	Beta	**36HV47**

MEGAPRO Every bit better. | KLEIN TOOLS | WESTWARD | PROTO® | STANLEY | Wera | Milwaukee



No. 2RKT1

Multibit Screwdrivers


No. 5PA34

Driver Type	Ratcheting	Sizes Incl.	Brand	No.
Automotive				
15-in-1	No	Phillips #1 x #2, Torx® T10 x T15, T20 x T25, T27 x T30, T9 x T40, Valve Stem x #5.5 Slotted	Megapro	**35HV08**
Elevator Service and Repair				
15-in-1	No	Phillips #0 x #3, #1 x #2, Slotted #4 x #6, Spanner #6 x #8, #10 x #12, Torx® T10 x T15, T20 x T25	Megapro	**4KTG2**
General Purpose				
2-in-1	No	Phillips #2, Slotted 3⁄16"	Klein tools	**15W152**
	No	PH2 x 1⁄4" Slotted	Westward	**401L11**
	No	PH2 x 1⁄4" Slotted	Westward	**401L09**
4-in-1	No	Phillips #00 x #0, Slotted: 1.5mm x 2.0mm	Megapro	**35HV09**
	No	PH1 x 3⁄16" Slotted, PH2 x 9⁄32" Slotted	Klein tools	**3MHY7**
	No	Phillips #1, #2, Slotted 5⁄32", 3⁄16"	Proto	**4LV31**
	Yes	Phillips #1, #2, Slotted 5⁄32", 3⁄16"	Proto	**4LV34**
5-in-1	No	PH1 x 3⁄16" Slotted, PH2 x 9⁄32" Slotted	Klein tools	**5LL45**
	Yes	Phillips #1, (2) #2, Slotted 1⁄8", 3⁄16", 1⁄4"	Stanley	**5AHC5**
	No	PH1 x 4R-5T Slotted, PH2 x 6R-8T Slotted	Proto	**45JU24**
6-in-1	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted	Klein tools	**15W143**
	No	PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess	Klein tools	**15W144**
	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted	Klein tools	**15W145**
	Yes	Phillips #1, #2, Robertson Square Recess #1, #2, Slotted 1.0, 1.2mm	Wera	**14U854**
	No	Phillips #2, (2) Robertson Square Recess #1, #2, Slotted 3⁄16"	Klein tools	**23NN71**
	No	PH1 x 3⁄16" Slotted, PH x 1⁄4" Slotted	Stanley	**1UK65**
	No	Phillips #1, #2, #3, Slotted 3⁄16", 7⁄32", 1⁄4"	Wera	**3EKC2**
	No	PH1 x 3⁄16" Slotted, PH2 x 9⁄32" Slotted, Hex 1⁄4" x Hex 5⁄16"	Westward	**401L10**
	No	PH1 x ST3/16", PH2 x ST9/32", Nut Driver: Hex 1⁄4" x Hex 5⁄16"	Westward	**401L12**
7-in-1	No	Phillips #1, #2, #2, Slotted 3⁄16", 7⁄32", 1⁄4"	Wera	**3EJZ3**
8-in-1	No	1⁄4" Nut Driver, Phillips #1 x #2, SL-1/4" x 4", SL-3/16" x 6", Square Bit 1" x 2", TORX® Bit 1"	Milwaukee	**494M74**
	Yes	1⁄4" Nut Driver, Phillips #1 x #2, SL-1/4" x 4", SL-3/16" x 6", Square Bit 1" x 2", TORX® Bit 1" T15	Milwaukee	**494M75**
9-in-1	No	PH1 x ST3/16", PH2 x ST1/4", Square Recess: #1 x #2, Nut Driver: Hex 1⁄4", Hex 5⁄16" x Hex 3⁄8"	Westward	**401L13**
	No	1⁄4" Nut Driver, Loop Maker, Hex 1.5mm x 2mm x 2.5mm x 3mm x 4mm x 5mm x 6mm	Milwaukee	**494M80**
	Yes	1⁄4" Nut Driver, Phillips #1 x #2, SL-1/4" x 4", SL-3/16" x 6", Square Bit 1" x 2" x 3"	Milwaukee	**494M81**
	No	1⁄4" Nut Driver, Phillips #1 x #2, TORX® Bit 1" T8 x T10 x T15 x T20 x T25 x T27 x T30	Milwaukee	**494M82**
	No	1⁄4" Nut Driver, Phillips #1 x #2, SL-1/4", SL-3/16", Square Bit 2", ECX #1 x #2	Milwaukee	**494M76**
	No	1⁄4" Nut Driver, Phillips #1 x #2, SL-1/4" x 4", SL-3/16" x 6", Square Bit 2", ECX #1 x #2	Milwaukee	**494M77**
	No	1⁄4" Nut Driver, Phillips #1, Hex 1.5mm x 2mm x 2.5mm x 3mm x 4mm x 5mm x 6mm, TORX® Bit 1" x T8 x T10 x T15 x T20 x T25 x T27	Milwaukee	**494M78**
	No	1⁄4" Nut Driver, Hex 7⁄64" x 1⁄8" x 9⁄64" x 5⁄32" x 3⁄16" x 7⁄32" x 1⁄4"	Milwaukee	**494M79**
10-in-1	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess, Torx® T10 x T15	Klein tools	**5LL46**
	Yes	Phillips #1, #2, Pozidriv® #1, #2, Robertson Square Recess #1, #2, Slotted 1⁄4", 3⁄16", Torx® T15, T30	Stanley	**6XW12**
	No	Hex 3⁄8", PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess	Klein tools	**15W141**
	Yes	Hex 3⁄8", PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess	Klein tools	**15W142**
	No	PH1 x 4R-5T Slotted, PH1 x 6R-8T Slotted, Robertson Square Recess S1 x S2, Torx® T10 x T20	Proto	**45JU25**
	No	Hex 0.9mm x 1.3mm, 1.5mm x 2.0mm, 2.5mm x 3.0mm, 4.0mm x 5.0mm	Klein tools	**15W150**
	No	Hex 1⁄16" x 5⁄64", 3⁄32" x 7⁄64", 1⁄8" x 9⁄64", 5⁄32" x 3⁄16"	Klein tools	**15W149**
	No	Tamper Resistant Torx(R) TR7 x TR8, TR9 x TR10, TR15 x TR20, TR25 x TR27	Klein tools	**15W148**
	No	Torx® T6 x T7, T8 x T10, T15 x T20, T25 x T27	Klein tools	**15W147**
	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess, Torx® T10 x T15	Klein tools	**15W146**
11-in-1	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess, Torx® T10 x T15	Klein tools	**2RKT1**
	No	PH1 x 3⁄16" Slotted, PH2 x 1⁄4" Slotted, S1 x S2 Robertson Square Recess	Klein tools	**23NN72**
	No	PH1 x 4R-5T Slotted, PH1 x 6R-8T Slotted, Robertson Square Recess S1 x S2, Torx® T10 x T20	Proto	**45JU26**
	Yes	Phillips #1, #2, Slotted 5⁄32", 3⁄16", Nutsetters 3⁄16", 1⁄4", 9⁄32", 5⁄16", 11⁄32", 7⁄16"	Proto	**4LV35**
	No	Phillips #1, #2, Slotted 3⁄16", 1⁄4", Square #1, #2, ECX #1, #2, Nut Driver, 3⁄8", 5⁄16", 1⁄4", Loop Maker	Milwaukee	**406R65**
	No	Phillips #1, #2, Slotted 3⁄16", 1⁄4", Square #1, #2, Torx® T10s, T15s, Nut Driver, 3⁄8", 5⁄16", 1⁄4", Loop Maker	Milwaukee	**406R66**
12-In-1	Yes	Phillips #1, #2, #3, Slotted 3⁄16", 1⁄4", 5⁄16", Robertson Square Recess #1 #2, #3, Torx® T10, T15, T20	Stanley	**31XR28**
13-in-1	Yes	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**4KTF9**
	No	Phillips #1 x #2, #3 x #0, Robertson Square Recess #1 x #2, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**35HV05**
	Yes	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**35HV06**
15-in-1	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**5PA35**
	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**5PA32**
	No	Hex 3⁄32" x 7⁄64", 1⁄8" x 9⁄64", 5⁄32" x 3⁄16", 7⁄32" x 1⁄4", 2.0mm x 3.0mm, 4.0mm x 5.0mm, 5.5mm x 6.0mm	Megapro	**1PMA8**
	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**2FRU2**
	No	Phillips #0 x #1, #2 x #3, Robertson Square Recess #0 x #1, #2 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**35HV04**
	No	Hex 1⁄8" x 9⁄64", 5⁄32" x 3⁄16", Phillips #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**22XT28**
	Yes	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**2MRT4**
	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 and #6, Torx® T10 x T15, T20 x T25	Megapro	**2MRT7**
16-in-1	Yes	Hex-Plus 3⁄32", 1⁄8", 5⁄32", 3⁄16", Phillips #1, #2, #3, Robertson Square Recess #1, #2, #3, Slotted 1.0mm, Tamper Resistant Torx(R) TR10, TR15, TR20, TR25, TR30	Wera	**14U856**
	No	Hex-Plus 3.0, 4.0, 5.0, 6.0mm, Phillips #1, #2, #3, Pozidriv(R) #1, #2, #3, Slotted 5.5mm, Tamper Resistant Torx(R) TR10, TR15, TR20, TR25, TR30	Wera	**3EKC3**
	No	Hex-Plus 3.0, 4.0, 5.0, 6.0mm, Phillips #1, #2, #3, Pozidriv(R) #1, #2, #3, Slotted 5.5mm, Tamper Resistant Torx(R) TR10, TR15, TR20, TR25, TR30	Wera	**3EJZ1**
	No	Hex-Plus 3⁄32", 1⁄8", 5⁄32", 3⁄16", Phillips #1, #2, #3, Robertson Square Recess #1, #2, #3, Slotted 9⁄16", Tamper Resistant Torx(R) TR10, TR15, TR20, TR25, TR30	Wera	**3EJZ2**
20-in-1	Yes	Nutdrivers 7⁄16", 11⁄32", 3⁄8", 5⁄16", 9⁄32", 1⁄4", Phillips #1, #2, #3, Slotted 3⁄16", 5⁄32", 1⁄4", Robertson Square Recess #1, #2, #3, Torx® T6, T8, T10, T15, T20	Stanley	**38WF38**
26-in-1	No	Clutch 1⁄8", 9⁄32", Phillips #0, #1, #2, #3, Robertson Square Recess #0, #1, #2, #3, Slotted 1⁄8", 5⁄32", 7⁄32", 1⁄2", 9⁄32", Socket Heads 9⁄64", 3⁄32", 1⁄8", 5⁄32", 3⁄16", Torx® T10, T15, T20, T25, T30, T40	Proto	**1FR28**
30-in-1	No	Tamper Proof Hex 2.0, 2.5, 3.0, 4.0, 5.0, 6.0mm, Robertson Square Recess #0, #1, #2, #3, Spanner #4, #6, #8, #10, Tamper Resistant Torx(R) TR7, TR8, TR9, TR10, TR15, TR20, TR25, TR30, TR40, Torq-Set 6.0, 8.0, 10.0mm, 1⁄4", Tri-Wing #1, #2, #3	Wera	**3EKC6**
32-in-1	No	Hex 2.0, 2.5, 3.0, 4.0, 5.0, 6.0mm, Phillips #1, #2, #3, Pozidriv(R) #1, #2, #3, Slotted 6.5mm, Spanner #4, #6, #8, #10, Tamper Resistant Torx(R) TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40, Torq-Set 6, 8, 10mm, Tri-Wing #1, #2, #3, #4	Wera	**3EKC5**
	Yes	Slotted: #3-4, E5-6, #6-8, #8-10, #10-12, #12-14, Clutch: 5⁄32", 3⁄16", Torx®: T6, T7, T8, T10, T15, T20, T25, Hex: 1⁄8", 7⁄64", 3⁄32", 5⁄64", 9⁄64", 5⁄32", 3⁄16", Phillips: #0, #1, #2 x 3, #3 , Square Recess: #1, #2, #3	Westward	**401K72**
	No	—	Klein tools	**3MJA8**
HVAC				
14-in-1	No	Phillips #0 x #3, #1 x #2, Phillips DoubleLok #2, Slotted #3 x #5, #4 x #6, Valve Stem x #5.5 Slotted	Megapro	**4KTG1**
Outdoors and Marine				
14-in-1	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**22XT29**
15-in-1	No	Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Torx® T10 x T15, T20 x T25	Megapro	**5PA33**
Security Fasteners				
13-in-1	Yes	Tamper Proof Hex 1⁄8" x 9⁄64", Spanner #6 x #8, #10 x #12, Tamper Resistant Torx(R) TR10 x TR15, TR20 x TR25, TR27 x TR30	Megapro	**22XT27**
15-in-1	No	Torq-Set: TS4 x TS6, TS8 x TS10, Torx(R) Plus TP10 x TP15, TP20 x TP25, TP27 x TP30, Tri-Wing TW2 x TW3, TW4 x TW5	Megapro	**2MRR8**
	No	Tamper Proof Hex 1⁄8" x 9⁄64", 5⁄32" x 3⁄16", Spanner #6 x #8, #10 x #12, Tamper Resistant Torx® TR10 x TR15, TR20 x TR25, TR27 x TR30	Megapro	**5PA34**
	No	Hex 1⁄8" x 9⁄64", 5⁄32" x 3⁄16", Phillips #1 x #2, #0 x #3, Robertson Square Recess #1 x #2, #0 x #3, Slotted #4 x #6, Spanner #6 x #8, #10 x #12, Torx(R) T10 x T15, T20 x T25, Tamper Resistant Torx(R) TR10 x TR15, TR20 x TR25, TR27 x TR30	Megapro	**2MRT5**
	No	Hex 1⁄8" x 9⁄64", 5⁄32" x 3⁄16", Spanner #6 x #8, #10 x #12, Torx(R)-Set TS4 x TS6, TS8 x TS10, Torx(R) Plus TP10 x TP15, TP20 x TP25, TP27 x TP30, Tamper Resistant Torx(R) TR10 x TR15, TR20 x TR25, TR27 x TR30, Tri-Wing TW2 x TW3, TW4 x TW5	Megapro	**2MRT6**


No. 5HYL4


No. 440A44


No. 5HYL3


No. 5LX17


No. 53DU43


No. 440A42


No. 5HYL9

Screwdriver Bit Sets

No. of Pieces	Description	Includes	Brand	Mfr. Model	Item No.
Bit Sets					
6	Stubby Ball Hex Bit Set	Stubby Cushion Grip Driver, Hex 1/8, 9/64, 5/32, 3/16, 1/32, 1/4"	Wiha Tools	38056	**5HYL4**
	Stubby Combination Bit Set	Stubby Cushion Grip Driver, Slotted 4.5, 6.0mm, Phillips #1, #2, Square #1, #2	Wiha Tools	38048	**5HYL8**
	Stubby Combination Bit Set	Stubby Cushion Grip Driver, Slotted 4.5, 6.5mm, Phillips #1, #2, #1, Pozi #2	Wiha Tools	38043	**5HYL5**
	Stubby Torx Bit Set	Stubby Cushion Grip Driver, Security Torx T8S, T10S, T15S, T20S, T25S, T30S	Wiha Tools	38047	**5HYL7**
	Stubby Torx Bit Set	Stubby Cushion Grip Driver, Torx T8, T10, T15, T20, T25, T30	Wiha Tools	38045	**5HYL6**
9	Ball End Hex Bit Set	3/32, 764, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" Bits, Storage Rail Holder	Wiha Tools	71798	**5HYL2**
10	1/4" Drive Ball End Hex Bit Set	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4", 1/4" Bits, Magnetic Bit Holder, Molded Storage Box	Wiha Tools	79276	**5HYL3**
11	Insert Bit Set	T10, T15, (2) T20, (2) T25, T27, T30, T40	IRWIN	1899926	**30TF39**
11	Torx Bit Set	5/16" Socket, 1/4" x 3/8" Drive, Torx Bits T10, T15, T20, T25, T27, T30 x 1/4" Drive, T40, T45, T50 x 5/16" Drive	Wiha Tools	72590	**53DU42**
34	Impact Driver Bit Set	Handle, Bit Holder, Metal Storage Box, Bits, PoziDriv (1) #1, (1) #2, (1) #3, Square (1) #1, (2) #2, (1) #3, Phillips (2) #1, (2) #2, (2) #3, Hex Metrix (1) 3.0mm, (1) 4.0mm, (1) 5.0mm, (1) 6.0mm, Hex Inch (1) 1/8", (1) 9/64", (1) 5/32", (1) 3/16", (1) 7/32", (1) 1/4", Torx® (1) T10, (1) T15, (2) T20, (2) T25, (2) T30, (1) T40	Wiha Tools	76899	**440A44**
35	Bit Set	1/4" Reversible Bit Ratchet, (31) Insert Bits, Torx, 1/4" Hex, 1/4" Square Socket Adapter, 4" Magnetic Bit Holder Extension In Compact Metal Box	Wiha Tools	74996	**53DU43**
39	Security	Handle, 1/4" Magnetic Bit Holder, 1/4" Bit Holding Socket Adapter, Torx, T8s, T10s, T15s, T20s, T25s, T27s, T30s, T40s, Tri-Wing #1, #2, #3, #4, Torque #6, #8, #10, Spanner #4, #6, #8, #10, Hex 5/64, 3/32, 7/64, 1/8, 9/64, 5/32", Slotted Sizes 6.5, 8.0mm, Phillips #1, #2, Pozi-Driv(R) #0, #1, #2, #3, Square #1, #2, #3, 5" X 3 3/4" X 1 3/8" Molded Storage Box	Wiha Tools	71990	**5LX17**
	Security Bit Set	1/4" Reversible Bit Ratchet, 1/4" Magnetic Bit Holder, 1/4" Drive Bit Holding Socket, Compact Storage Box, (36) Insert Bits: Security Hex: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", Security Torx: T8S, T10S, T15S, T20S, T25S, T27S, T30S, T40S, Spanner: #4, #6, #8, #10, Tri-Wing #1, #2, #3, #4, Torq-Set, #6, #8, #10, Square: #1, #2, #3, Pozidrive: #0, #1, #2, #3, Phillips #1, #2, Slotted: 6.5mm, 8.0mm	Wiha Tools	71988	**440A41**
65	ESD Ratchet Bit Set	ESD Safe Precision Handle, Micro Bit Extension, 4mm to 1/4" Adapter, Micro Bit, Slotted (1) 0.8mm, (1) 1.2mm, (1) 1.5mm, (1) 1.8mm, (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 3.5mm, (1) 4.0mm, Phillips (1) #000, (1) #00, (1) #0, (1) #1, Hex Inch (1) 3/64", (1) 1/16", (1) 5/64", (1) 3/32", (1) 7/64", (1) 1/8", (1) 9/64", (1) 5/32", Hex Metric (1) 0.7mm, (1) 0.9mm, (1) 1.35mm, (1) 1.5mm, (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 4.0mm, Torx (1) T3, (1) T4, (1) T5, (1) T6, (1) T7, (1) T8, (1) T9, (1) T10, (1) T15, (1) T20, Nut Driver Inch (1) 5/64", (1) 3/32", 7/64", (1) 1/8", (1) 9/64", (1) 5/32", (1) 3/16", (1) 7/32", Nut Driver Metric (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 3.5mm, (1) 4.0mm, (1) 4.5mm, (1) 5.0mm, (1) 5.5mm, Pentalobe (1) PL1, (1) PL2, (1) PL3, (1) PL4, (1) PL5, (1) PL6	Wiha Tools	75965	**440A42**
68	ESD Ratchet Bit Set	Travel Case, ESD Safe Precision Handle, Micro Bit Magnetic Storage Handle, (4) Extension, 4mm to 1/4" Adapter, Slotted (1) 0.8mm, (1) 1.2mm, (1) 1.5mm, (1) 1.8mm, (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 3.5mm, (1) 4.0mm, Phillips (1) #000, (1) #00, (1) #0, (1) #1, (1) #2, Hex Inch (1) 3/64", (1) 1/16", (1) 5/64", (1) 3/32", (1) 7/64", (1) 1/8", (1) 9/64", (1) 5/32", Hex Metric (1) 0.7mm, (1) 0.9mm, (1) 1.35mm, (1) 1.5mm, (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 4.0mm, (1) Torx (1) T1, (1) T2, (1) T3, (1) T4, (1) T5, (1) T6, (1) T7, (1) T8, (1) T9, (1) T10, (1) T15, (1) T20, Nut Setter Inch (1) 5/64", (1) 3/32", (1) 7/64", (1) 1/8", (1) 9/64", (1) 3/32", (1) 3/16", (1) 7/32", Nut Setter Metric (1) 2.0mm, (1) 2.5mm, (1) 3.0mm, (1) 3.5mm, (1) 4.0mm, (1) 4.5mm, (1) 5.0mm, (1) 5.5mm, Pentalobe (1) PL1, (1) PL2, (1) PL3, (1) PL4, (1) PL5, (1) PL6	Wiha Tools	75971	**440A43**
Adjustable Torque Control Sets					
59	Torque Control Set	15-80 in./oz., 5-10, 10-50 in./lbs., Torx T5, T6, T7, T8, T9, T10, T15, T20, T25, T30, 1.5, 2, 2.5, 3, 4, 5, 6mm, 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" Hex, #1, #2, #3 Square, #1, #2 Pozi, #0, #1, #2 Phillips, 3/16, 7/32, 1/4" Slotted, 4, 4.5, 5, 5.5, 6, 7, 8mm, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 3/8" Sockets, Hex/Square Adapter, Bit Holder, Torque Setting Tool	Wiha Tools	28589	**5HYL9**
Accessory					
	Magnetizer/Demagnetizer, Shatter-resistant ABS Enclosure		Wiha Tools	40010	**5LX13**


No. 4R113


No. 6R592

No. 4A853

Screw Starters

Start or remove standard or Phillips screws—especially those too small to hold by hand—from hard-to-reach areas. Knurled aluminum handle with pocket clip.

Description	Brand	Mfr. Model	Item No.
2 5/8" Screw Starter	Proto	J9851	**4R110**
2 3/4" Screw Starter	Proto	J9882	**4R114**
5 5/8" Screw Starter	Proto	J9853	**4R111**
5 3/4" Screw Starter	Proto	J9884	**4R115**
6 1/4" Double End Screw Starter	Proto	J9866	**4R113**
9" Screw Starter	Klein Tools	K19	**2DHB7**
9 5/8" Screw Starter	Proto	J9855	**4R112**
9 3/4" Screw Starter	Proto	J9886	**4R116**

Awls and Tapping Tool

Description	Shank Length (in.)	Overall Length (in.)	Handle Color	Brand	Mfr. Model	Item No.
Scratch Awls						
Scratch Awl	3	5 1/2	Blue and Red	Westward	401L08	**401L08**
	3 3/8	6 1/16	Red	STANLEY	69-122	**6R592**
Steel Scratch Awl	—	7	Black	Klein Tools	66385	**2DGC1**
Scratch Awl, Cushion Grip Screwdriver	3 1/2	7 1/8	Green/Black	Greenlee	9753-12C	**5KPG5**
	3 1/2	7 1/8	Yellow And Black	Klein Tools	650	**4A851**
Tapping Tool						
6 In 1 Tapping Tool	—	7 5/8	—	Klein Tools	627-20	**4A853**


No. 4YT13

Electronics Precision Tool Kit

No. of Pieces	Pliers Incl.	Screwdrivers Incl.	Item No.
13	Long Nose, Diagonal Cutting, End Nose, Bent Nose, Needle Nose	Slotted 1.5mm, 1.8mm, 2.0mm, 2.5mm, 3.0mm, Phillips #000, #00, #0	**4YT13**

wiha
Tools that work for you



No. 30D392

Precision Screwdrivers

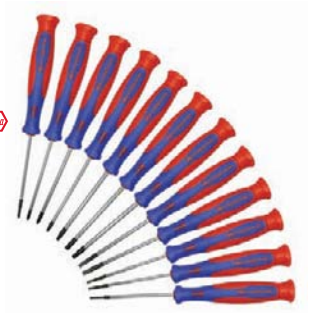
Feature a proportional handle to blade size for optimum torque. Handle is made of high-quality, cadmium-free plastic and is molded on for a permanent bond to blade. Tapered, faceted shape allows rapid rotation. Fingertip rotation cap for precise turning and control. Chrome-vanadium-molybdenum tool steel blade with vapor chrome finish is through hardened for wear resistance. Exact-fit machined tips.

Tip Size	Shank Length	Handle Design	Screwdriver Tip Style	Item No.
1.5mm	2"	Ergonomic with Rotating Cap	Hex	30D392
2.0mm	1⅝"		Slotted	5LW50
2.5mm	2"		Slotted	5LW51
3.0mm	2"		Slotted	5LW52
3.5mm	2⅜"		Slotted	5LW53

WESTWARD WITTE wiha
Tools that work for you

Precision Screwdriver Sets

Perform intricate work on smaller devices without the bulky handles of standard screwdrivers. All of the essential sizes and types are combined into convenient assortments to add to your tool box. These screwdrivers feature rotating caps for finger-tip control and chrome blades with black oxide tips.


No. 401L47


No. 30D486


No. 2MPL2

No. of Pieces	Includes	Brand	Item No.
Multicomponent			
Hex/Phillips/Slotted			
12	Slotted: 1/16"x2-1/2", 0.07"x2-1/2", 5/64"x2-1/2", 7/64"x2-1/2", 1/8"x2-1/2", Phillips: PH000x2-1/2", PH00x2-1/2", PH0x2-1/2", Hex: 5/64"x2-1/2", 3/32"x2-1/2", 7/64"x2-1/2", 1/8"x2-1/2"	Westward	401L47
Keystone Slotted/Phillips			
7	Slotted 1/16" x 1⅝", 5/64" x 2⅜", 7/64" x 2⅜", 1/8" x 3", Phillips #00 x 1⅝", #0 x 2⅜", Plastic Storage Case	Witte	10K134
Plastic			
Hex			
5	1.3 x 40, 1.5 x 50, 2 x 50, 2.5 x 60, 3.0 x 60mm	Wiha	30D411
7	0.7mm, 0.9mm, 1.3mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm	Wiha	5LW64
8	0.7mm, 0.9mm, 1.3mm, 1/16", 5/64", 3/32', 7/64", 1/8"	Wiha	5LW65
	Ball Hex 0.050" x 1¼", 1/16" x 1½", 5/64" x 1½", 3/32" x 2", 7/64" x 2", 1/8" x 2", 9/64" x 2", 5/32" x 2"	Wiha	2MPK7
Hex/Phillips/Slotted/Torx®			
50	Slotted: 0.8, 1, 1.2, 1.5, 1.8, 2, 2.5, 3, 3.5, 4mm, Phillips: #000, 00, 0, 1, Torx: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, Hex: 1.3, 1.5, 2, 2.5, 3mm, 0.028, 0.035, 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32", Nut Drivers: 1.5, 1.8, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5mm, Slotted 0.8mm, 1.0mm, 1.2mm, 1.5mm, 1.8mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm 4.0mm, Phillips #000, #00, #0, #1, Hex 0.7mm/0.028", 0.9mm/0.035", 1.3mm/0.050", 1.5mm, 2.0mm, 2.5mm, 3.0mm, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", Torx T1, T2, T3, T4, T5, T6, Metal Stand	Wiha	30D486

No. of Pieces	Includes	Brand	Item No.
Keystone Slotted/Phillips			
5	Slotted 2.5mm, 3.0mm, 4.0mm, Phillips #0, #1, Slotted 2.5 x 150mm, 3.0 x 150mm, 4.0 x 150mm, Phillips #0 x 150mm, #1 x 150mm	Wiha	2MPK5
7	Slotted: 1.5 x 40mm, 2.0 x 50mm, 2.5 x 50mm, 3.0 x 60mm, Phillips: #00 x 40mm, #0 x 50mm, #1 x 60mm	Wiha	5LW63
	Long Slotted 2.5, 3.0, 4.0, Extra-Long 3.0, 4.0, Short Slotted 2.5, Phillips #0	Wiha	5LW55
8	Slotted 1.0 x 40mm, 2.0 x 50mm, 3.0 x 60mm, 4.0 x 60mm, Phillips #000 x 40mm, #00 x 40mm, #0 x 50mm, #1 x 60mm, Canvas Pouch	Wiha	30D388
	Slotted 1.0 x 40mm, 1.5 x 40mm, 2.0 x 40mm, 2.5 x 50mm, 3.5 x 50mm, Phillips #00 x 40mm, #0 x 40mm, #1 x 50mm, Canvas Pouch	Wiha	30D387
Pentalobe			
6	PL1, PL2, PL3, PL4, PL5, PL6	Wiha	16ML67
Phillips			
4	#000, #00, #0, #1, Phillips #000 x 40mm, #00 x 40mm, #0 x 50mm, #1 x 60mm	Wiha	2MPK6
Slotted/Square			
6	1.5 x 40, 2 x 40, 2.5 x 50, 3 x 50, 3.5 x 60, 4 x 60mm	Wiha	30D376
Torx®			
6	T6, T7, T8, T9, T10, T15	Wiha	2MPL2
8	Torx® T3 x 30mm, T4 x 30mm, T5 x 30mm,T6 x 40mm, T7 x 40mm, T8 x 40mm, T9 x 50mm, T10 x 50mm, Canvas Pouch	Wiha	30D452
	T1, T2, T3, T4, T5, T6, T7, T8, Canvas Pouch	Wiha	30D451

wiha Wera
Tools that work for you

ESD Screwdriver Sets

- Surface resistance: 10^6-10^9 ohms

ESD-safe screwdriver sets provide safe, controlled dissipation of static build up, ideal for working on sensitive electronic components. Precision handles are made of high-quality, cadmium-free plastic and are molded-on for a permanent bond to blades. Tapered shape allows rapid rotation. Rotating cap for precise turning and control. Chrome-vanadium, molybdenum tool steel blades with hard chrome finish are through-hardened for wear resistance. Exact-fit machined tips.


No,. 5LX18


No. 2MPL3

No. of Pieces	Includes	Brand	Item No.
Hex/Phillips/Slotted/Torx®			
20	Slotted 1.5 x 44mm, 2.0 x 44mm, 3.0 x 44mm, Phillips #00 x 44mm, #0 x 44mm, #1 x 44mm, TORX(R) T1 x 44mm, T2 x 44mm, T3 x 44mm, T4 x 44mm, T5 x 44mm, T6 x 44mm, TORX PLUS(R) TP1 x 44mm, TP2 x 44mm, TP3 x 44mm, TP4 x 44mm, Hex 1.5 x 44mm, 2.0 x 44mm, Pentalo, Canvas Bag	Wera	38UR93
27	Slotted 1.5 x 28mm, 2.0 x 28mm, 3.0 x 28mm, 4.0 x 28mm, Phillips #000 x 28mm, #00 x 28mm, #0 x 28mm, #1 x 28mm, Torx T3 x 28mm, T4 x 28mm, T5 x 28mm, T6 x 28mm, T7 x 28mm, T8 x 28mm, T9 x 28mm, T10 x 28mm, T15 x 28mm, Hex 0.050 in x 28mm, 1/16 in x 28mm, 5/64, Molded Storage Box	Wiha	5LX18
Keystone Slotted/Phillips			
7	Slotted 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm, Phillips #0, #1	Wiha	2MPL3
Phillips/Slotted/Torx®			
12	Reversible Blades: Slotted: 1.5 x 3, 2 x 3.5, 2.5 x 4mm, Phillips: #000 x 00, #0 x 1, Torx(R): T1 x T2, T3 x T4, T5 x T6, T6 x T8, T7 x T9, T10 x T15, Slotted 1.5mm + 3.0mm, 2.0mm + 3.5mm, 2.5mm + 4.0mm, Phillips #000 + #00, #00 + #1, Torx(R) T1 + T2, T3 + T4, T5 + T6, T6 + T8, T7 + T9, T10 + T15 Interchangeable Blades, Handle, Canvas Pouch	Wiha	30D454
16	Slotted: 1.5, 2, 2.5, 3mm, Phillips: #00, 0, 1, TORX(R): T6, T7, T8, T9, T10, T15, T20, 100mm Bit Extension	Wiha	30D483



No. 2RKP6


No. 401L15


No. 2MPK9



No. 401L38

Nut Drivers

Milwaukee | KLEIN TOOLS | WESTWARD | PROTO | wiha Tools that work for you

Nut Driver Hex Size	Nut Driver Shank Length	Nut Driver Overall Length	Magnetic/ Nonmagnetic	Brand	Item No.
Hollow Hex					
Cushion Grip Handle Design					
3/16"	3"	7"	Nonmagnetic	Milwaukee	**32TT21**
1/4"	3"	7"	Magnetic	Milwaukee	**32TR92**
5/16"	3"	7"	Magnetic	Milwaukee	**32TR93**
5/16"	3"	7"	Nonmagnetic	Milwaukee	**32TT01**
3/8"	3"	7"	Nonmagnetic	Milwaukee	**32TT03**
5.5mm	3"	7"	Nonmagnetic	Milwaukee	**32TT15**
7.0mm	3"	7"	Magnetic	Milwaukee	**32TT10**
10.0mm	3"	7"	Magnetic	Milwaukee	**32TT12**
Hollow Round					
Cushion Grip Handle Design					
3/16"	3"	6 3/4"	Nonmagnetic	Klein Tools	**5LL63**
3/16"	6"	9 3/4"	Nonmagnetic	Klein Tools	**2DGW7**
3/16"	6"	9 3/4"	Magnetic	Klein Tools	**2RKR3**
1/4"	1 1/2"	3 1/2"	Nonmagnetic	Klein Tools	**1ED92**
1/4"	1 1/2"	3 1/2"	Magnetic	Klein Tools	**2RKP5**
1/4"	3"	6 3/4"	Magnetic	Klein Tools	**4JA36**
1/4"	3"	6 3/4"	Nonmagnetic	Klein Tools	**5LL61**
1/4", 5/16"	3 5/8"	8"	Magnetic	Klein Tools	**53YE61**
1/4"	6"	9 3/4"	Magnetic	Klein Tools	**4JA40**
1/4"	18"	21 3/4"	Magnetic	Klein Tools	**4JA41**
5/16"	1 1/2"	3 1/2"	Nonmagnetic	Klein Tools	**1ED93**
5/16"	1 1/2"	3 1/2"	Magnetic	Klein Tools	**2RKP6**
5/16"	3"	6 3/4"	Magnetic	Klein Tools	**4JA38**
5/16"	3"	6 3/4"	Nonmagnetic	Klein Tools	**5LL65**
5/16"	6"	9 3/4"	Magnetic	Klein Tools	**4JA42**
5/16"	18"	21 3/4"	Magnetic	Klein Tools	**4JA43**
11/32"	3"	6 3/4"	Magnetic	Klein Tools	**2RKP8**
11/32"	3"	6 3/4"	Nonmagnetic	Klein Tools	**5LL62**
11/32"	6"	9 3/4"	Nonmagnetic	Klein Tools	**2DGW6**
11/32"	6"	9 3/4"	Magnetic	Klein Tools	**2RKR4**
3/8"	3"	6 3/4"	Magnetic	Klein Tools	**2RKP9**
3/8"	3"	6 3/4"	Nonmagnetic	Klein Tools	**5LL64**
3/8"	6"	9 3/4"	Magnetic	Klein Tools	**2RKR5**
7/16"	3"	7 5/16"	Magnetic	Klein Tools	**2RKR1**
7/16"	3"	7 5/16"	Nonmagnetic	Klein Tools	**5LL66**
7/16"	6"	10 5/16"	Magnetic	Klein Tools	**2RKR6**
1/2"	3"	7 5/16"	Magnetic	Klein Tools	**2RKR2**
1/2"	3"	7 5/16"	Nonmagnetic	Klein Tools	**5LL60**
1/2"	6"	10 5/16"	Magnetic	Klein Tools	**2RKR7**
9/16"	4"	9 3/8"	Nonmagnetic	Klein Tools	**2DGW5**
9/16"	6"	11 3/8"	Nonmagnetic	Klein Tools	**2DGW8**
5/8"	4"	9 3/8"	Nonmagnetic	Klein Tools	**2DFZ7**
5/8"	6"	11 3/8"	Nonmagnetic	Klein Tools	**2RKR8**
Ergonomic Handle Design					
3/16"	3"	7 1/2"	Nonmagnetic	Westward	**401L33**
1/4"	3"	7 1/2"	Nonmagnetic	Westward	**401L34**
5/16"	2 7/8"	7 5/8"	Nonmagnetic	Proto	**13H015**
5/16"	3"	7 1/2"	Nonmagnetic	Westward	**401L35**
11/32"	3"	7 1/2"	Nonmagnetic	Westward	**401L36**
3/8"	3"	7 1/2"	Nonmagnetic	Westward	**401L37**
7/16"	2 7/8"	7 13/16"	Nonmagnetic	Proto	**13H018**
7/16"	3"	7 1/2"	Nonmagnetic	Westward	**401L38**
4.0mm	4"	7 3/8"	Nonmagnetic	Proto	**13H020**
5.5mm	3"	7 1/2"	Nonmagnetic	Westward	**401L41**
5.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L40**
6.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L42**
7.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L43**
7.0mm	4"	7 5/8"	Nonmagnetic	Proto	**13H024**
8.0mm	4"	7 5/8"	Nonmagnetic	Proto	**13H025**
9.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L45**
10.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L46**
10.0mm	4"	7 13/16"	Nonmagnetic	Proto	**13H027**
11.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401K79**
12.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401K80**
13.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401K81**
13.0mm	4"	7 13/16"	Nonmagnetic	Proto	**13H030**
Fluted Handle Design					
1/4"	1 1/2"	3 3/4"	Nonmagnetic	Klein Tools	**2DFD1**
1/4"	3"	6 5/8"	Nonmagnetic	Klein Tools	**2DFD7**
1/4"	3"	6 5/8"	Magnetic	Klein Tools	**2DFD8**
9/32"	3"	6 5/8"	Nonmagnetic	Klein Tools	**2DFE1**
5/16"	3"	6 5/8"	Magnetic	Klein Tools	**2DFD2**
3/8"	1 1/2"	3 3/4"	Nonmagnetic	Klein Tools	**2DFC9**
3/8"	6"	9 5/8"	Magnetic	Klein Tools	**2DFD4**
Hollow Round, Aerospace Certified					
Ergonomic Handle Design					
1/2"	3"	7 1/2"	Nonmagnetic	Westward	**401L39**
8.0mm	3"	7 1/2"	Nonmagnetic	Westward	**401L44**
Solid Round					
Cushion Grip Handle Design					
1/4"	1 1/2"	3 1/4"	Nonmagnetic	Westward	**10J251**
Fluted Handle Design					
3/16"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G10**
3/16"	3"	7"	Nonmagnetic	Westward	**401L19**
7/32"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G09**
1/4"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G12**
1/4"	3"	7"	Nonmagnetic	Westward	**401L20**
9/32"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G11**
5/16"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G14**
5/16"	3"	7"	Nonmagnetic	Westward	**401L21**
11/32"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G13**
11/32"	3"	7"	Nonmagnetic	Westward	**401L22**
3/8"	2 3/4"	6 3/4"	Nonmagnetic	Proto	**426G15**
3/8"	3"	7"	Nonmagnetic	Westward	**401L23**
7/16"	2 3/4"	7"	Nonmagnetic	Proto	**426G16**
7/16"	3"	7"	Nonmagnetic	Westward	**401L24**
1/2"	2 3/4"	7"	Nonmagnetic	Proto	**426G17**
1/2"	3"	7"	Nonmagnetic	Westward	**401L25**
9/16"	2 3/4"	7"	Nonmagnetic	Proto	**426G18**
5/8"	2 3/4"	7"	Nonmagnetic	Proto	**426G19**
4.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426F96**
5.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426F97**
5.5mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426F98**
5.5mm	3"	7"	Nonmagnetic	Westward	**401L27**
5.0mm	3"	7"	Nonmagnetic	Westward	**401L26**
6.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426F99**
6.0mm	3"	7"	Nonmagnetic	Westward	**401L28**
7.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G01**
7.0mm	3"	7"	Nonmagnetic	Westward	**401L29**
8.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G02**
8.0mm	3"	7"	Nonmagnetic	Westward	**401L30**
9.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G03**
9.0mm	3"	7"	Nonmagnetic	Westward	**401L31**
10.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G04**
10.0mm	3"	7"	Nonmagnetic	Westward	**401L32**
11.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G05**
11.0mm	3"	7"	Nonmagnetic	Westward	**401K76**
12.0mm	2 7/8"	6 3/4"	Nonmagnetic	Proto	**426G06**
12.0mm	3"	7"	Nonmagnetic	Westward	**401K77**
13.0mm	2 7/8"	7"	Nonmagnetic	Proto	**426G07**
13.0mm	3"	7"	Nonmagnetic	Westward	**401K78**
14.0mm	2 7/8"	7"	Nonmagnetic	Proto	**426G08**
Tee Handle Design					
14.0mm	9 1/16"	11 5/16"	Nonmagnetic	Westward	**30RZ26**

No. of Pieces	Nut Driver Hex Size	Nut Driver Shank Length	Nut Driver Overall Length	Magnetic/ Nonmagnetic	Brand	Item No.
Nut Driver Sets, Hollow Hex						
Cushion Grip Handle Design						
4	1/4", 5/16", 7/16", 9/16"	3	6	Nonmagnetic	Milwaukee	**19MU72**
7	1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	3	7 1/4 to 7 1/2	Nonmagnetic	Milwaukee	**19MU82**
7	1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"	3	7 1/4 to 7 1/2	Magnetic	Milwaukee	**19MU84**
7	5.5, 6.0, 7.0, 8.0, 10.0, 13.0mm	3	7 1/4 to 7 1/2	Magnetic	Milwaukee	**19MU85**
7	5.5, 6.0, 7.0, 8.0, 10.0, 13.0mm	3	7 1/4 to 7 1/2	Nonmagnetic	Milwaukee	**19MU83**
Nut Driver Sets, Hollow Round						
Cushion Grip Handle Design						
2	1/4", 5/16"	1 1/2	3 1/2	Nonmagnetic	Klein Tools	**1ED91**
2	1/4", 5/16"	3	6 3/4	Magnetic	Klein Tools	**4JA37**
2	1/4", 5/16"	6	6 3/4	Magnetic	Klein Tools	**4JA39**
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	6	9 3/4 to 10 5/16	Magnetic	Klein Tools	**2DGW9**
7	3/16", 1/4", 3/16", 11/32", 3/8", 7/16", 1/2"	3	6 3/4 to 7 5/16	Magnetic	Klein Tools	**2RKR9**
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	3	6 3/4 to 7 5/16	Nonmagnetic	Klein Tools	**4A843**
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	6	9 3/4 to 10 5/16	Nonmagnetic	Klein Tools	**4JA45**
7	5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0mm	3	6 3/4	Nonmagnetic	Klein Tools	**2DGN2**
Ergonomic Handle Design						
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	3	7 1/2	Nonmagnetic	Westward	**401L17**
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	4	8 1/2 to 9	Nonmagnetic	Proto	**13G278**
10	5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0mm	3	7 1/2	Nonmagnetic	Westward	**401L18**
12	4.0, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0mm	4	8 1/2 to 9	Nonmagnetic	Proto	**13G279**
Nut Driver Sets, Solid Round						
Fluted Handle Design						
7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	3	7	Nonmagnetic	Westward	**401L15**
7	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"	4	7 1/4	Nonmagnetic	Proto	**3R910**
7	5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0mm	2 7/8	6 11/16	Nonmagnetic	Proto	**3R952**
10	5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0mm	3	7	Nonmagnetic	Westward	**401L16**
11	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"	2 7/8	6 11/16 to 7	Nonmagnetic	Proto	**3R911**
Precision Nut Driver Sets, Solid Round						
Rotating Red Cap Handle Design						
8	3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	2 7/16	6 1/8 to 6 3/4	Nonmagnetic	Wiha Tools	**2MPL1**
8	2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm	2 7/16	6 1/8 to 6 3/4	Nonmagnetic	Wiha Tools	**2MPK9**

Hex and Torx Key Set Selection Guide

The Selection Guide indicates the number and type of keys in a set. Use the Ordering Table to select the type of set, piece count, and measurement type that you want. Set contents are indicated by matching the Size Codes from Ordering Table and Selection Guide.

No. of Pcs.	Size Code	Sizes																
Inch Key Sets (SAE)																		
18	S20	0.028	0.035	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	1/2	9/16	5/8
16	S19	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	1/2	9/16	5/8
14	S18	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	1/2	—	—
13	S17	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
12	S16	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	—	—	—	—
11	S13	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	—	—	—	—	—
11	S14	—	—	0.050	1/16	5/64	3/32	—	1/8	—	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
11	S15	—	—	—	—	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
10	S12	—	—	—	—	—	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
9	S21	—	—	—	—	5/64	3/32	—	1/8	—	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
9	S9	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	—	—	—	—	—	—	—
9	S10	—	—	—	—	—	3/32	7/64	1/8	9/64	5/32	3/16	—	1/4	5/16	3/8	—	—	—
9	S11	—	—	—	—	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	—	—	—	—	—
8	S5	—	—	0.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	—	—	—	—	—	—	—	—
8	S6	—	—	—	—	5/64	3/32	—	1/8	—	5/32	3/16	—	1/4	5/16	3/8	—	—	—
8	S7	—	—	—	—	—	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	—	—	—	—	—
8	S8	—	—	—	—	—	3/32	—	1/8	—	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
7	S4	—	—	—	—	5/64	3/32	—	1/8	—	5/32	3/16	7/32	1/4	—	—	—	—	—
6	S2	—	—	—	—	—	—	—	—	—	5/32	3/16	7/32	1/4	5/16	3/8	—	—	—
6	S3	—	—	—	—	—	3/32	—	1/8	—	5/32	3/16	7/32	1/4	—	—	—	—	—
5	S1	—	—	—	—	—	—	—	—	—	—	3/16	7/32	1/4	5/16	3/8	—	—	—

No. of Pcs.	Size Code	Sizes																
Metric Key Sets																		
15	M10	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10	12	14	17		
14	M9	—	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10	12	14	17		
13	M8	—	—	1.3	1.5	2	2.5	3	4	5	6	8	10	12	14	17		
9	M7	—	—	—	1.5	2	2.5	3	4	5	6	8	10	—	—	—		
8	M5	—	—	—	—	2	2.5	3	4	5	6	8	10	—	—	—		
8	M6	—	—	—	1.5	2	2.5	3	4	5	6	8	—	—	—	—		
7	M3	—	—	—	1.5	2	2.5	3	4	5	6	—	—	—	—	—		
7	M4	—	—	—	—	2	2.5	3	4	5	6	8	—	—	—	—		
6	M1	—	—	—	—	—	—	3	4	5	6	8	10	—	—	—		
6	M2	—	—	—	—	2	2.5	3	4	5	6	—	—	—	—	—		
Torx® Sets																		
14	T11	T6	T7	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	—		
11	T9	T6	—	T8	—	T10	T15	T20	T25	T27	T30	T40	—	T50	T55	—		
10	T7	—	—	—	—	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	—		
10	T8	T6	T7	T8	T9	T10	T15	T20	T25	T27	T30	—	—	—	—	—		
8	T5	T6	T7	T8	T9	T10	T15	T20	T25	—	—	—	—	—	—	—		
8	T6	—	—	T8	—	T10	T15	T20	T25	T27	T30	T40	—	—	—	—		
7	T1	T6	T7	T8	T9	T10	T15	T20	—	—	—	—	—	—	—	—		
7	T2	—	—	—	—	T10	T15	T20	T25	T27	T30	T40	—	—	—	—		
7	T3	—	—	T8	T9	T10	T15	T20	T25	—	—	—	—	—	—	—		
7	T4	—	—	—	T9	T10	T15	T20	T25	T27	T30	—	—	—	—	—		

Eklind · PROTO · WESTWARD · wiha · BONDHUS · Wera

L Shaped Hex & Torx® Key Sets

No. of Pieces	Arm Length	Size Code	Includes	Finish	Brand	Item No.
SAE						
11	1.66" to 4.25"	S14	Pouch	Black Oxide	Eklind	**4RB81**
11	1.70" to 3.25"	S13	Plastic Index	Black Oxide	Proto	**1FX43**
11	1.70" to 3.30"	S13	Plastic Index	Black Oxide	Eklind	**5LM61**
11	6.00"	S15	Pouch	Black Oxide	Eklind	**4RB76**
13	1.55" to 4.34"	S17	Plastic Index	Black Oxide	Westward	**2CYC1**
13	1.60" to 4.20"	S17	Plastic Index	Nickel Plated	Wiha Tools	**4NB48**
13	1.66" to 4.25"	S17	Pouch	Black Oxide	Eklind	**4RB80**
13	1.70" to 4.25"	S17	Plastic Index	Black Oxide	Proto	**1FX44**
13	1.70" to 4.30"	S17	Plastic Index	Black Oxide	Eklind	**5LM62**
13	1.70" to 4.30"	S17	Plastic Index	Bright	Eklind	**15W996**
13	2.74" to 6.84"	S17	Plastic Index	Black Oxide	Westward	**2CYC3**
13	2.80" to 6.80"	S17	Plastic Index	Black Oxide	Eklind	**5LM65**
13	2.80" to 6.80"	S17	Plastic Index	Bright	Eklind	**15W998**
13	2.80" to 6.80"	S17	Plastic Index	ProGuard™	Bondhus	**36F576**
13	2.90" to 6.80"	S17	Plastic Index	BriteGuard™	Bondhus	**453U57**
13	2.90" to 7.90"	S17	Plastic Index	Nickel Plated	Wiha Tools	**4NB50**
14	2.80" to 8.25"	S18	Metal Box	Black Oxide	Eklind	**4RB75**
18	1.25" to 6.25"	S20	Metal Box	Black Oxide	Eklind	**6VEP9**
Ball End						
7	3.20" to 5.30"	S4	Plastic Index	Black Oxide	Eklind	**4RU40**
9	3.50" to 9.00"	S10	Pouch	Matte	Wera	**3EKC1**
9	4.00" to 6.00"	S21	Rubber Clip	Black Oxide	Wera	**45YN19**
11	2.80" to 5.30"	S13	Plastic Index	Black Oxide	Eklind	**4CR56**
12	2.84" to 6.00"	S16	Plastic Index	Black Oxide	Eklind	**4RB73**
13	0.50" to 1.50"	S17	Plastic Index	Bright	Eklind	**4YCN7**
13	0.50" to 1.50"	S17	Plastic Index	Gold Plated	Eklind	**4YCP2**
13	0.50" to 1.50"	S17	Plastic Index	Black Oxide	Eklind	**4YCN9**
13	0.50" to 3/8"	S17	Plastic Index	ProGuard™	Bondhus	**25DZ08**
13	2.30" to 7.00"	S17	Plastic Index	Black Oxide	Proto	**4R615**
13	2.74" to 6.84"	S17	Plastic Index	Black Oxide	Westward	**2CYC6**
13	2.80" to 6.80"	S17	Plastic Index	ProGuard™	Bondhus	**53PZ22**
13	2.80" to 6.80"	S17	Plastic Index	ProGuard™	Bondhus	**53PZ20**
13	2.80" to 6.80"	S17	Plastic Index	Black Oxide	Eklind	**3A594**
13	2.80" to 8.80"	S17	Plastic Index	Chrome	Wiha Tools	**4NB47**
13	2.80" to 8.80"	S17	Plastic Index	Chrome	Wiha Tools	**6YH25**
16	2.80" to 9.80"	S19	Metal Box	Black Oxide	Eklind	**5LM72**
Tamper Resistant						
8	3.40" to 6.80"	S8	Pouch	Black Oxide	Westward	**40WZ31**
8	3.40" to 6.80"	S8	Pouch	Black Oxide	Eklind	**5LN02**
Metric						
7	1.73" to 3.46"	M3	Plastic Index	Black Oxide	Proto	**1FX39**
9	1.69" to 4.40"	M7	Plastic Index	Black Oxide	Westward	**2CYB9**
9	1.70" to 4.30"	M7	Plastic Index	Black Oxide	Eklind	**5LM68**
9	1.70" to 4.30"	M7	Plastic Index	Bright	Eklind	**15X001**
9	1.70" to 4.30"	M7	Plastic Index	Black Oxide	Proto	**1FX40**
9	1.80" to 4.70"	M10	Plastic Index	Nickel Plated	Wiha Tools	**4NB49**
9	2.99" to 6.69"	M7	Plastic Index	Black Oxide	Westward	**2CYC2**
9	3.00" to 6.60"	M7	Plastic Index	Black Oxide	Eklind	**5LM70**
9	3.00" to 6.60"	M7	Plastic Index	Bright	Eklind	**15X002**
9	3.50" to 8.60"	M7	Plastic Index	Nickel Plated	Wiha Tools	**4NB51**
14	2.70" to 9.70"	M9	Metal Box	Black Oxide	Eklind	**4RU22**
15	1.20" to 6.10"	M10	Metal Box	Black Oxide	Eklind	**4RU21**
Ball End						
6	2.00" to 3.30"	M2	—	Black Oxide	Eklind	**5LM77**
7	3.00" to 5.40"	M3	Plastic Index	Black Oxide	Eklind	**4CR59**
9	0.50" to 1.50"	M7	Plastic Index	Bright	Eklind	**4YCN8**
9	0.50" to 1.50"	M7	Plastic Index	Black Oxide	Eklind	**4YCP1**
9	2.80" to 6.80"	M7	Plastic Index	ProGuard™	Bondhus	**53PZ23**
9	2.80" to 6.80"	M7	Plastic Index	ProGuard™	Bondhus	**53PZ21**
9	2.99" to 6.69"	M7	Plastic Index	Black Oxide	Westward	**2CYC5**
9	3.00" to 6.60"	M7	Plastic Index	Black Oxide	Eklind	**1ATF7**
9	3.00" to 7.75"	M7	Plastic Index	Black Oxide	Proto	**1Q808**
9	3.50" to 8.70"	M7	Rubber Clip	Black Oxide	Wera	**45YN13**
9	3.50" to 8.70"	M7	Plastic Index	Chrome	Wiha Tools	**4NB46**
9	3.50" to 8.70"	M7	Plastic Index	Chrome	Wiha Tools	**6YH24**
9	3.50" to 9.00"	M7	Rubber Clip	Matte	Wera	**3EKA9**
10	2.80" to 6.80"	M7	Plastic Index	ProGuard™	Bondhus	**53PZ17**
13	2.80" to 9.70"	M8	Metal Box	Black Oxide	Eklind	**5LM73**
SAE/Metric						
22	1.70" to 4.30"	S17, M7	Plastic Index	Satin	Eklind	**15W997**
22	1.70" to 4.30"	S17, M7	Plastic Index	Black Oxide	Eklind	**5LM63**
22	2.74" to 6.84"	S17, M7	Plastic Index	Black Oxide	Westward	**2CYC4**
22	2.80" to 6.80"	S17, M7	Plastic Index	Black Oxide	Eklind	**5LM66**
22	2.80" to 6.80"	S17, M7	Plastic Index	Satin	Eklind	**15W999**
22	2.74" to 6.84"	S17, M7	Plastic Index	Black Oxide	Westward	**2CYC7**
22	2.80" to 6.80"	S17, M7	Plastic Index	Black Oxide	Eklind	**38TG43**
22	2.80" to 6.80"	S17, M7	Plastic Index	ProGuard™	Bondhus	**53PZ19**
22	2.80" to 6.80"	S17, M7	Plastic Index	Black Oxide	Eklind	**4CR58**
22	2.80" to 8.80"	S17, M7	Plastic Index	Chrome	Wiha Tools	**4NB45**
22	2.84" to 6.58"	S17, M7	Plastic Index	Bright	Eklind	**29RU70**
22	3.10" to 7.80"	S17, M7	Plastic Index	ColorGuard™	Bondhus	**453U56**
Torx®						
7	1.70" to 4.30"	T2	Plastic Index	Bright	Eklind	**15X003**
7	3.40" to 4.90"	T2	Plastic Index	Black Oxide	Eklind	**5LM71**
7	3.40" to 4.90"	T2	Plastic Index	Bright	Eklind	**15X004**
7	3.40" to 4.90"	T2	Plastic Index	Black Oxide	Westward	**40WZ25**
10	2.00" to 4.25"	T7	Pouch	Black Oxide	Eklind	**6VER0**
14	1.59" to 4.25"	T11	Pouch	Black Oxide	Eklind	**4RB79**
7	2.80" to 6.80"	T2	Plastic Index	Black Oxide	Eklind	**3JA13**
Screwholding						
7	2.60" to 4.10"	T1	Plastic Index	Black Oxide	Wiha Tools	**4NB56**
10	2.60" to 5.20"	T8	Plastic Index	Black Oxide	Wiha Tools	**4NB57**
Tamper Resistant						
7	3.40" to 4.90"	T2	Plastic Index	Black Oxide	Westward	**40WY90**





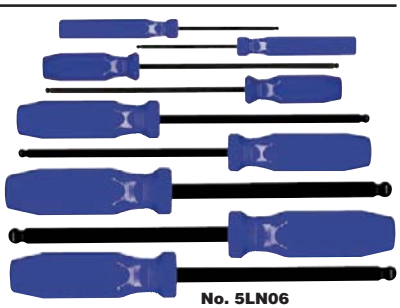


Eklind

Straight Ball-End Hex Keys

Long-arm, heat-treated keys are made of alloy steel with black oxide finish. They can drive a fastener at up to a 30° angle. Ergonomic plastic handles provide firm and comfortable grip. No. 5LN03 includes sizes 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, and 5/32. No. 5LN04 includes sizes 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, and 3/8. No. 5LN06 includes sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm.

No. of Pieces	Arm Length	Size Code	Item No.
SAE			
8	4.00" to 6.00"	S5	**5LN03**
13	4.00" to 6.00"	S17	**5LN04**
Metric			
9	4.00" to 6.00"	M7	**5LN06**





Tamper Resistant Torx® No. 3JA15



No. 3R808



Torx® No. 4NB71



Ball End No. 4NB55



No. 2CYD2



Torx® No. 4NB70

PROTO® BONDHUS® Eklind WESTWARD wiha

Folded Hex & Torx® Key Sets

No. of Pieces	Arm Length	Size Code	Finish	Handle Material	Handle Type	Brand	Item No.
SAE							
5	2.40" to 3.30"	S1	Black Oxide	Chrome Plated Steel	Plain	Proto	**3R808**
5	3.175" to 3.81"	S17	ProGuard™	Plastic	Ergonomic	Bondhus	**453U54**
5	3.30" to 5.10"	S1	Black Oxide	Chrome Plated Steel	Plain	Eklind	**6X303**
6	2.40" to 3.30"	S2	Black Oxide	Plastic	Ergonomic	Proto	**5TH13**
6	4.20" to 5.10"	S2	Black Oxide	Plastic	Ergonomic	Eklind	**5LM83**
8	1.80" to 2.70"	S5	Black Oxide	Chrome Plated Steel	Plain	Eklind	**6X301**
8	3.70" to 5.00"	S7	Black Oxide	Chrome Plated Steel	Plain	Eklind	**3A580**
9	1.40" to 2.75"	S11	Black Oxide	Plastic	Ergonomic	Proto	**5TH12**
9	1.80" to 2.90"	S9	Black Oxide	Plastic	Ergonomic	Eklind	**5LM85**
9	1.92" to 3.10"	S11	Chrome	Aluminum Alloy	Ergonomic	Westward	**2CYB7**
9	2.00" to 3.70"	S11	Black Oxide	Chrome Plated Steel	Plain	Eklind	**6X302**
9	2.00" to 3.70"	S11	Black Oxide	Plastic	Ergonomic	Eklind	**5LM84**
Ball End							
9	2.00" to 3.70"	S11	Black Oxide	Plastic	Ergonomic	Eklind	**5LM86**
Metric							
6	2.95" to 3.82"	M7	ProGuard™	Plastic	Ergonomic	Bondhus	**453U53**
6	3.30" to 5.00"	M1	Black Oxide	Chrome Plated Steel	Plain	Proto	**3R796**
6	3.30" to 5.10"	M1	Black Oxide	Chrome Plated Steel	Plain	Eklind	**5LM74**
6	3.30" to 5.10"	M1	Black Oxide	Plastic	Ergonomic	Eklind	**5LM76**
7	1.50" to 2.00"	M3	Black Oxide	Plastic	Ergonomic	Proto	**5TH09**
7	1.80" to 3.30"	M3	Black Oxide	Plastic	Ergonomic	Eklind	**5LM78**
7	2.00" to 3.30"	M3	Black Oxide	Chrome Plated Steel	Plain	Eklind	**6X304**
7	2.00" to 4.10"	M4	Black Oxide	Chrome Plated Steel	Plain	Eklind	**4CR95**
7	2.00" to 4.10"	M4	Black Oxide	Plastic	Ergonomic	Eklind	**5LM79**
8	2.17" to 3.20"	M6	Chrome	Aluminum Alloy	Ergonomic	Westward	**2CYB8**
SAE/Metric							
16	3.60" to 4.20"	S11, M4	Black Oxide	Plastic	Ergonomic	Eklind	**4RU38**
SAE/Metric/Star							
25	1.90"	S11. M6, T14	Mirror	Aluminum Alloy	Plain	Westward	**5YUU6**
SAE/Metric/Torx®							
24	1.80" to 3.90"	S11, M4, T6	Black Oxide	Plastic	Ergonomic	Eklind	**4RB82**
36	3.60" to 5.20"	S17, M7, T6	Black Oxide	Plastic	Ergonomic	Eklind	**4RU39**
Torx®							
7	1.68" to 1.94"	T3	Chrome	Chrome Vanadium Steel	Ergonomic	Wiha Tools	**4NB71**
7	1.70" to 3.00"	T1	Black Oxide	Chrome Plated Steel	Plain	Eklind	**4CR96**
7	2.70" to 3.90"	T2	Black Oxide	Chrome Plated Steel	Plain	Eklind	**3A581**
8	1.40" to 2.75"	T14	Black Oxide	Plastic	Plain	Proto	**5TH10**
8	1.70" to 3.00"	T5	Black Oxide	Plastic	Ergonomic	Eklind	**5LM82**
8	2.00" to 3.90"	T6	Black Oxide	Plastic	Ergonomic	Eklind	**5LM81**
8	2.08" to 2.91"	T14	Mirror	Aluminum Alloy	Plain	Westward	**5YUU7**
Tamper Resistant							
7	2.70" to 4.00"	T2	Black Oxide	Plastic	Ergonomic	Eklind	**3JA15**

WESTWARD Eklind wiha PROTO® BONDHUS®

T-Shaped Hex and Torx® Key Sets

No. of Pieces	Arm Length	Size Code	Includes	Finish	Handle Material	Brand	Item No.
SAE							
8	3.12" to 5.36"	S6	Metal Stand	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**2CYD1**
8	6.00"	S7	Pouch	Black Oxide	Alloy Steel	Eklind	**6X305**
8	9.00"	S7	Pouch	Black Oxide	Alloy Steel	Eklind	**6X306**
9	6.00"	S11	Pouch	Black Oxide	Rubber	Eklind	**5LM87**
9	9.00"	S11	Pouch	Black Oxide	Rubber	Eklind	**5LM91**
10	6.00"	S12	Pouch	Black Oxide	Vinyl	Eklind	**6X307**
10	6.00"	S12	—	Nickel Plated	Plastic	Wiha Tools	**4NB52**
10	9.00"	S12	Pouch	Black Oxide	Vinyl	Eklind	**6X308**
11	6.00"	S15	—	Black Oxide	Vinyl	Proto	**3R792**
11	6.00"	S15	Pouch	Black Oxide	Rubber	Eklind	**5LM88**
11	9.00"	S15	Pouch	Black Oxide	Vinyl	Eklind	**5LM92**
Ball End							
8	3.12" to 5.36"	S6	Case	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**2CYD3**
9	9.00"	S11	Pouch	Black Oxide	Rubber	Eklind	**5LM89**
9	9.00"	S11	—	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**5YUU0**
10	5.90" to 7.80"	S12	—	Chrome	Rubber	Wiha Tools	**4NB55**
11	9.00"	S15	Pouch	Black Oxide	Vinyl	Eklind	**5LM90**
11	9.00"	S15	Pouch	Black Phosphate	Plastic	Westward	**40WZ27**
Metric							
6	6.00"	M2	—	Black Oxide	Vinyl	Proto	**3R793**
6	6.00"	M2	Pouch	Black Oxide	Rubber	Eklind	**5LM93**
6	9.00"	M2	Pouch	Black Oxide	Rubber	Eklind	**5LM97**
8	3.12" to 5.36"	M5	Metal Stand	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**2CYD2**
8	3.90" to 7.90"	M5	Plastic Index	Nickel Plated	Plastic	Wiha Tools	**4NB53**
8	6.00"	M5	Pouch	Black Oxide	Alloy Steel	Eklind	**4CR98**
8	6.00"	M5	Pouch	Black Oxide	Vinyl	Eklind	**4CT08**
8	6.00"	M5	Pouch	Black Oxide	Rubber	Eklind	**5LM94**
8	9.00"	M5	Pouch	Black Oxide	Alloy Steel	Eklind	**3A582**
8	9.00"	M5	Pouch	Black Oxide	Vinyl	Eklind	**4CT09**
Ball End							
8	3.12" to 5.36"	M5	Case	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**2CYD4**
8	5.90" to 7.90"	M5	—	Chrome	Rubber	Wiha Tools	**4NB54**
8	9.00"	M5	Pouch	Black Oxide	Vinyl	Eklind	**5LM96**
8	9.00"	M5	—	Black Oxide	Polypropylene, Thermoplastic Rubber	Westward	**5YUU1**
SAE/Metric							
Ball End							
9	7.60" to 10.49"	S17	—	ProGuard™	Plastic	Bondhus	**453U55**
Torx®							
7	3.90" to 5.90"	T2	—	Chrome	Plastic	Wiha Tools	**4NB70**
7	3.90" to 7.90"	T4	—	Chrome	Plastic	Wiha Tools	**4NB69**
8	6.00"	T6	Pouch	Black Oxide	Rubber	Eklind	**5LM99**
11	6.00"	T9	Pouch	Black Oxide	Rubber	Eklind	**5LN01**



wiha

Wing Shaped Torx® Key Set

No. of Pieces	Arm Length	Size Code	Includes	Finish	Handle Material	Item No.
7	1.40" to 1.80"	T1	Metal Stand	Black Oxide	Plastic	**4NB68**

Individual L-Shaped and T-Handle Hex Keys

Eklind ★ WESTWARD PROTO®

All hex keys are precision formed to exact dimensional tolerances for precise fit. Heat-treated alloy steel provides high strength and resistance to rotational distortion.

Tip Size	EKLIND BALL END Item No.	Pkg. Qty.	EKLIND LONG ARM Item No.	Pkg. Qty.	EKLIND SHORT ARM Item No.	Pkg. Qty.	EKLIND Item No.	Pkg. Qty.	WESTWARD BALL END Item No.	Pkg. Qty.	WESTWARD Item No.	Pkg. Qty.
L-Shaped												
1/20	4CR61	10	—		—		—		—		—	
3/64	—		4RE49	10	4RE10	10	38TG44 *	1	—		—	
1/16	4CR62	10	4RE47	10	4RE11	10	38TG45 *	1	—		—	
5/64	4CR63	10	4RE48	10	4RE12	10	38TG46 *	1	—		—	
3/32	4CR64	10	4RE50	10	4RE13	10	38TG47 *	1	40WY80	10	54TU59	1
7/64	4CR65	10	4RE51	10	4RE14	10	38TG48 *	1	—		—	
1/8	4CR66	10	4RE52	10	4RE15	10	15X025	10	40WY82	10	—	
1/8	—		—		—		38TG49 *	1	—		—	
9/64	4CR67	10	4RE53	10	4RE16	10	38TG50 *	1	40WY83	10	—	
5/32	4CR68	10	4RE54	10	4RE17	10	15X027	10	40WY74	10	54TU63	1
5/32	29RU80	1	—		—		38TG51 *	1	—		54TU48	1
3/16	4CR69	10	4RE55	10	4RE18	10	38TG52 *	1	40WY75	10	54TU58	1
3/16	29RU81	1	—		—		—		—		—	
7/32	4CR70	10	4RE56	10	4RE19	10	38TG53 *	1	—		—	
1/4	4CR71	10	4RE57	10	4RE20	10	38TG54 *	1	40WY76	10	—	
5/16	4CR72	5	4RE58	5	4RE21	5	38TG55 *	1	—		54TU62	1
5/16	29RU84	1	—		—		—		—		—	
3/8	4CR73	5	4RE60	5	4RE22	5	38TG56 *	1	—		—	
7/16	4CR74	5	4RE62	1	4RE23	1	—		—		—	
1/2	4CR75	5	4RE64	1	4RE24	1	15X034	1	—		—	
9/16	4CR76	5	4RE66	1	4RE25	1	—		—		54TU69	1
5/8	4CR77	5	4RE68	1	4RE26	1	—		—		54TU65	1
5/8	—		—		—		—		—		54TU50	1
3/4	4CR78	1	4RE70	1	4RE27	1	—		—		54TU60	1
3/4	—		—		—		—		—		54TU45	1
7/8	2CYB3	1	4RE72	1	4RE28	1	—		—		—	
1	2CYB4	1	4RE74	1	4RE29	1	—		—		—	
0.7mm	—		—		4RE30	10	—		—		—	
0.9mm	—		4RE76	10	4RE32	10	—		—		—	
1.3mm	4CR79	10	4RE78	10	4RE36	10	—		—		—	
1.5mm	4CR80	10	4RE80	10	4RE40	10	38TG57 *	1	—		—	
2mm	4CR81	10	4RE82	10	4RE41	10	38TG58 *	1	40WY88	10	—	
2.5mm	4CR82	10	4RE84	10	4RE42	10	38TG59 *	1	40WY84	10	—	
3mm	4CR83	10	4RE86	10	4RE43	10	38TG60 *	1	40WY95	10	—	
3mm	29RU89	1	—		—		—		—		—	
4mm	4CR84	10	4RE88	10	29RU90	1	38TG61 *	1	40WY96	10	—	
4mm	—		—		4RE44	10	—		—		—	
5mm	4CR85	10	4RE90	10	4RE45	10	38TG62 *	1	40WY97	10	—	
5mm	29RU91	1	—		—		—		—		—	
6mm	4CR86	10	4RE92	10	4RE46	10	38TG63 *	1	40WY98	10	—	
6mm	29RU92	1	—		—		—		—		—	
7mm	4CR87	5	—		—		15X055	5	—		—	
8mm	4CR88	5	4RE94	5	4RE31	5	38TG64 *	1	—		—	
9mm	4CR89	5	—		—		—		—		—	
10mm	4CR90	5	4RE96	5	4RE33	5	38TG65 *	1	—		—	
10mm	—		—		—		—		—		54TU84	1
11mm	—		—		—		15X059	1	—		—	
12mm	4CR91	5	4RE98	1	4RE34	1	—		—		—	
14mm	4CR92	5	4RU10	1	4RE35	1	—		—		—	
14mm	—		—		—		—		—		54TU86	1
17mm	4CR93	1	4RU12	1	4RE37	1	—		—		—	
17mm	—		—		—		—		—		54TU75	1
19mm	4CR94	1	4RU14	1	4RE38	1	—		—		—	
22mm	—		—		4RE39	1	—		—		—	

** Double Ball End.*

Tip Size	EKLIND LONG ARM Item No.	EKLIND LONG ARM BALL END Item No.
L-Shaped Torx®		
T5	4RU23	—
T6	4RU24	2CXX9
T7	4RU25	2CXY1
T8	4RU26	2CXY2
T9	4RU27	2CXY3
T10	4RU28	2CXY4
T15	4RU29	2CXY5
T20	4RU30	2CXY6
T25	4RU31	2CXY7
T27	4RU32	2CXY8
T30	4RU33	2CXY9
T40	4RU34	2CXZ1
T45	4RU35	2CXZ2
T50	4RU36	2CXZ3
T55	4RU37	2CXZ4
T60	—	2CXZ5

Tip Size	EKLIND LONG ARM TAMPER RESISTANT Item No.
L-Shaped Torx®	
TR6	2CXZ6
TR7	2CXZ7
TR8	2CXZ8
TR9	2CXZ9
TR10	2CYA1
TR15	2CYA2
TR20	2CYA3
TR25	2CYA4
TR27	2CYA5
TR30	2CYA6
TR40	2CYA7
TR45	2CYA8
TR50	2CYA9
TR55	2CYB1
TR60	2CYB2

Tip Size	EKLIND LOOPED VINYL GRIP Item No.	Pkg. Qty.	EKLIND CUSHION GRIP BALL END Tip Size	Item No.	Pkg. Qty.	PROTO CUSHION GRIP Tip Size	Item No.	Pkg. Qty.
T-Handle								
3/32"	3A583	1	3/32"	4RB83	4	5/64"	1FX80	1
7/64"	3A584	1	7/64"	4RB84	4	3/32"	1FX79	1
1/8"	3A585	1	1/8"	4RB85	4	7/64"	1FX78	1
9/64"	3A586	1	9/64"	4RB86	4	1/8"	1FX77	1
5/32"	3A587	1	5/32"	4RB87	4	9/64"	1FX76	1
3/16"	3A588	1	3/16"	4RB88	4	5/32"	1FX75	1
7/32"	3A589	1	7/32"	4RB89	4	3/16"	1FX74	1
1/4"	3A590	1	1/4"	4RB90	4	7/32"	1FX73	1
5/16"	3A591	1	5/16"	4RB91	2	1/4"	1FX72	1
3/8"	3A592	1	3/8"	4RB92	2	5/16"	1FX71	1
2mm	4CR99	1	2.5mm	4RB93	4	3/8"	1FX70	1
2.5mm	4CT01	1	3mm	4RB94	4	2mm	1FX69	1
3mm	4CT02	1	4mm	4RB95	4	2.5mm	1FX68	1
4mm	4CT03	1	5mm	4RB96	4	3mm	1FX67	1
5mm	4CT04	1	6mm	4RB97	4	4mm	1FX66	1
6mm	4CT05	1	8mm	4RB98	2	5mm	1FX65	1
8mm	4CT06	1	10mm	4RB99	2	6mm	1FX64	1
10mm	4CT07	1	—	—	—	—	—	—

L-Shaped—Ball-end hex keys are designed to provide 360° rotation at angles up to 35°.

T-Handle—Hex keys with looped vinyl grip are color-coded for quick identification between inch and metric. Ergonomic grips are textured and slip resistant.


L-Shaped Short Arm

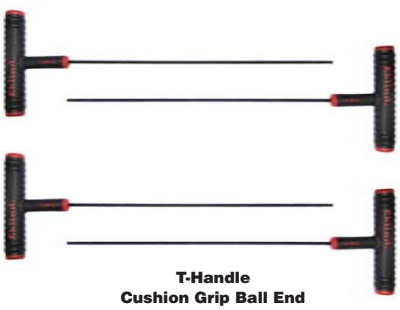

L-Shaped Ball-End


L-Shaped Torx® Long Arm


L-Shaped Torx® Ball End


L-Shaped Torx® Tamper-Resistant


T-Handle Looped Vinyl Grip


T-Handle Cushion Grip Ball End



No. 22XP79



No. 5AHC4

No. 31XN02





No. 21Y984



No. 21XZ35



No. 2DZJ5



No. 1YJD6



No. 31CN82

WESTWARD OLFA
IRWIN LENOX
STANLEY PHC
DEWALT STANLEY FatMax

Utility Knives

▪ For replacement blades, see page 809

Cut paper, cardboard, leather, drywall, plastic sheeting, and other materials.

FOLDING BLADE

Blades fold away for safe storage.

Irwin®—Nos. 21XZ33, 21XZ34, and 21XZ35 feature handle with multi-tool and storage.

Lenox®—No. 2DZJ5 has locking blade. Includes a bottle opener, screwdriver, and belt clip.

STANLEY®—No. 45J348 has integrated tape cutter and belt clip.

Overall Length	Blade/Handle Material	No. of Blades Incl.	Repl. Blade	Brand	Mfr. Model	Item No.
Safety Knife - Self-Retracting						
Quick-Change Blade Change						
5¾"	Carbon Steel / Plastic	4	2ZRH7	Westward	—	**22XP79**
Retractable Blade						
Laminate Scoring Knife						
7"	Tungsten Steel / ABS	3	—	Olfa	PC-L	**6ZTJ7** *
Non-Changeable Blade						
1¾"	Stainless Steel / ABS	1	—	Olfa	TK-4Y	**34F821** *
Press Multi-Function Button to Release Blade Change						
9³⁄₁₆"	Carbon Steel / Rubber	3	—	IRWIN	1774106	**23Z292**
Push Button Blade Change						
5¼"	Bi-Metal with Titanium Edge / Aluminum	3	—	LENOX	20353-SSRK1	**3KJC5** *
6⅜"	Carbon Steel / Metal	3	2ZRH7	STANLEY	10-499	**5C944** *
6½"	Carbon Steel / Metal/TPR	5	4MUX3	Pacific Handy Cutter, Inc	QBA-375	**4MUX2** *
6⅝"	Carbon Steel / Metal	3	2ZRH7	STANLEY	10-788	**5TG43** *
6⅝"	Carbon Steel / Metal/Rubber	5	3FRC8	STANLEY	10-778	**5AHC4**
Quick-Change Blade						
4⅞"	Carbon Steel / Steel	1	—	STANLEY	STHT10828	**31CN86** *
6¾"	Carbon Steel / Steel/Rubber	3	—	DeWalt	DWHT10046	**31CN81** *
Quick-Change Button Blade						
6⅝"	Carbon Steel / Aluminum/PP/TPR	5	2ZRK7	Westward	—	**31XN02**
6⅞"	Carbon Steel / Metal/TPR	4	—	STANLEY	10-789	**45JW97** *
Quick-Change Dial Blade						
6¾"	Carbon Steel / Metal	1	—	Pacific Handy Cutter, Inc	QBR-18	**45PV77** *
Screw Blade Change						
5⅞"	Carbon Steel / Zinc	3	2ZRH7	STANLEY	10-179	**3Q020** *
5⅞"	Carbon Steel / Aluminum	3	2ZRH7	Westward	—	**19G963** *
6"	Carbon Steel / Metal	3	2ZRH7	STANLEY	10-099	**4A803** *
6"	Carbon Steel / Metal	3	2ZRH7	STANLEY	10-079	**5C945** *
6"	Carbon Steel / Steel/Zinc	4	2ZRH7	Westward	—	**5MW90** *
6"	Carbon Steel / Zinc	3	2ZRH7	Westward	—	**1YJC8** *
6"	Carbon Steel / Plastic	1	2ZRH7	STANLEY	10-175	**5R675** *
6"	Carbon Steel / Steel	3	—	STANLEY	10-099U	**21Y984** *
6"	Carbon Steel / Plastic	1	—	Pacific Handy Cutter, Inc	RPK340	**31AD27** *
6"	Carbon Steel / Steel/Rubber	3	—	STANLEY	10-779	**4HJ24** *
6⅜"	Carbon Steel / Metal	3	—	Pacific Handy Cutter, Inc	SN395	**31AD26** *
6½"	Bi-Metal / Aluminum	1	—	IRWIN	2082101	**4YRP3**
6½"	Bi-Metal / Aluminum	3	—	IRWIN	2082300	**3KJA4**
7¼"	Carbon Steel / Steel	3	—	STANLEY	10-707	**21Y992** *
Slide Blade Change						
5½"	Carbon Steel / ABS	3	—	Olfa	TS-1	**34F819**
6"	Carbon Steel / Metal	1	—	Pacific Handy Cutter, Inc	RSG-194	**9CTT9**
6"	Stainless Steel / Metal	1	—	Pacific Handy Cutter, Inc	RSG-383	**8NN12**
6⅝"	Carbon Steel / Rubber/ Elastomer/Stainless Steel	1	—	Olfa	UTC-1	**6ZTJ6**
Swivel Blade Change						
6½"	Carbon Steel / Aluminum	3	5R699	STANLEY	10-525	**5C946**
7"	Carbon Steel / Metal	3	2ZRH7	STANLEY	10-989	**5R685**
Tool Free Blade Change						
6¾"	Carbon Steel / Zinc/Polypropylene	3	—	DeWalt	DWHT10319	**410D13** *
6¾"	Carbon Steel / Zinc/Polypropylene	3	—	DeWalt	DWHT10296	**410D12**
6¾"	Carbon Steel / Zinc/Polypropylene	3	—	DeWalt	DWHT10295	**410D11** *
7"	Carbon Steel / Zinc/Polypropylene	1	—	FATMAX	FMHT10315	**410D21**
7½"	Carbon Steel / Zinc/Polypropylene	3	—	FATMAX	FMHT10288	**410D17** *
7½"	Carbon Steel / Zinc/Polypropylene	3	—	FATMAX	FMHT10289	**410D18**
Folding Blade						
Push Button Blade Change						
5¾"	Bi-Metal / Aluminum	1	2ZRH7	IRWIN	2089100	**3KJD6**
5¾"	Steel / Aluminum	1	—	STANLEY	10-855	**45JW98**
6"	Stainless Steel / Metal	1	—	DeWalt	DWHT10035L	**19T226**
6⅛"	Bi-Metal / Aluminum	1	2ZRK7	IRWIN	1858318	**21XZ33**
6⅛"	Bi-Metal / Aluminum	3	2ZRK7	IRWIN	1858319	**21XZ34**
6⅛"	Bi-Metal / Aluminum	3	2ZRK7	IRWIN	1858320	**21XZ35**
6⅛"	Steel / Rubber	1	2ZRK7	LENOX	10771	**2DZJ5**
6¼"	Steel / Zinc	1	2ZRH7	STANLEY	FMHT10827	**45J348**
6½"	Steel / Nylon	1	2ZRH7	STANLEY	STHT10169	**45J349**
7¼"	Steel / Metal	3	—	DeWalt	DWHT10261	**45JW93**
Quick-Change Blade						
6"	Carbon Steel / Aluminum	1	2ZRK7	Westward	—	**1YJD6**
Screw Blade Change						
4¼"	Stainless Steel / Powder-Coated Epoxy	1	2ZRK1	STANLEY	10-049	**5R669**
6⅞"	Carbon Steel / Stainless Steel/Wood	1	2ZRH7	Westward	—	**1YJD8**
Fixed Blade						
D-Ring, Swivels Open Blade Change						
9³⁄₁₆"	Carbon Steel / Aluminum	3	—	IRWIN	1774103	**23Z291**
Non-Changeable Blade						
6"	Stainless Steel / Plastic	1	—	Pacific Handy Cutter, Inc	T-1	**9RPL6** *
8¼"	Stainless Steel / Hardwood	1	2ZRK7	Westward	—	**19G960**
Quick-Change Release Blade						
4¾"	Bi-Metal with Titanium Edge / Aluminum	3	—	LENOX	20354-SSFK1	**3KJC6**
Screw Blade Change						
5⅜"	Carbon Steel / Aluminum	3	2ZRK7	Westward	—	**19G962** *
5⅜"	Carbon Steel / Zinc	3	—	STANLEY	10-209	**4A804** *
6¼"	Carbon Steel / Steel	3	—	STANLEY	10-780	**21Y981**
6½"	Bi-Metal / Aluminum	1	—	IRWIN	2081101	**4YRP2**
7¼"	Carbon Steel / Steel	3	—	STANLEY	10-705	**21Y985** *
Swivels Open Blade Change						
6"	Carbon Steel / Metal	3	—	STANLEY	10-399	**5C948**
Thumb Dial Release Blade Change						
8"	Carbon Steel / Steel/Rubber	3	—	DeWalt	DWHT10246	**31CN82** *

** Tether Ready*



Sharp Blade Point Type
No. 5C953



Hook Blade Point Type
No. 6ZTJ8



Blunt Blade Point Type
No. 5C952

Utility Knife Replacement Blades

- For a complete listing of knives that fit each blade, go to Grainger.com®

Blade Point, Edge	Mount Type	Material	Brand	Mfr. Model	Item No.	Pkg. Qty.
Utility Blade						
Sharp, Straight	(1) Hole	Stainless Steel	STANLEY	11-041	**5R688**	1
	(1) Hole	Carbon Steel	Olfa	SKB-7/10B	**2FTY6**	10
	(1) Hole	Carbon Steel	Olfa	SKB-8/10B	**2FTY5**	10
	(1) Hole	Carbon Steel	Olfa	A-SOL/10B	**34F822**	10
	(1) Hole	Carbon Steel	Olfa	LSOL-10B	**1MPP6**	10
	(1) Hole	Carbon Steel	Olfa	SKB-10/10B	**6ZTL3**	10
	(1) Hole	Carbon Steel	Westward	—	**2ZRN8**	10
	(1) Hole	Carbon Steel	Olfa	SKB-2/50B	**5LC52**	50
	(2) Notches	Carbide Steel	DeWalt	DWHT11131L	**31CN84**	1
	(2) Notches	Bi-Metal	IRWIN	2084100	**4JA80**	5
	(2) Notches	Carbon Steel	STANLEY	11-921	**5C949**	5
	(2) Notches	Carbon Steel	STANLEY	11-700	**3FRC7**	5
	(2) Notches	Carbon Steel	STANLEY	11-700T	**3FRC8**	10
	(2) Notches	Carbide Steel	STANLEY	11-800T	**21Y988**	10
	(2) Notches	Carbon Steel	STANLEY	11-921T	**1HH66**	10
	(2) Notches	Bi-Metal	IRWIN	2084200	**3KJA5**	20
	(2) Notches	Carbon Steel	STANLEY	11-937L	**45JW99**	50
	(2) Notches	Bi-Metal	IRWIN	2084300	**4JA81**	50
	(2) Notches	Carbon Steel	STANLEY	11-700L	**3FRC9**	50
	(2) Notches	Carbide Steel	STANLEY	11-800L	**21Y990**	50
	(2) Notches	Carbon Steel	STANLEY	11-931D	**4VN32**	70
	(2) Notches	Carbon Steel	DeWalt	DWHT11004	**21Y987**	75
	(2) Notches	Carbon Steel	PHC	QBD324	**30HJ93**	75
	(2) Notches	Carbon Steel	PHC	QBD379	**30HJ95**	75
	(2) Notches	Carbon Steel	STANLEY	11-931A	**5C951**	100
	(2) Notches	Carbon Steel	STANLEY	11-700A	**3FRD1**	100
	(2) Notches	Bi-Metal	IRWIN	2084400	**4JA82**	100
	(2) Notches	Carbon Steel	STANLEY	11-911A	**5R704**	100
	(2) Notches	Carbon Steel	STANLEY	11-921A	**4A805**	100
	(2) Notches	Bi-Metal	LENOX	20352-GOLD100D	**3KJC8**	100
	(2) Notches	Carbon Steel	Westward	—	**2ZRH8**	100
	(2) Notches	Carbon Steel	STANLEY	11-921B	**5C950**	400
	(3) Notches, (1) Slot	Carbon Steel	Olo	OLO-5/B	**1MPP9**	5
	(3) Notches, (1) Slot	Carbon Steel	Olo	OLO-100/B	**1MPR1**	100
	(4) Notches	Bi-Metal	LENOX	20350-GOLD5C	**3KJC7**	5
Sharp, Sheepfoot	(1) Hole	Stainless Steel	STANLEY	11-040	**5R687**	1
Sharp, Hook	(1) Hole	Carbon Steel	Olfa	HOB-2/5	**6ZTJ4**	5
	(2) Notches	Carbon Steel	STANLEY	11-961	**5C953**	5
	(2) Notches	Carbon Steel	STANLEY	11-983	**3Q025**	5
	(2) Notches	Carbon Steel	STANLEY	11-983L	**21Y994**	50
	(2) Notches	Carbon Steel	STANLEY	11-939A	**1XDK7**	70
	(2) Notches	Carbon Steel	PHC	HB-96	**45PV78**	100
	(2) Notches	Carbon Steel	STANLEY	11-984	**5R709**	100
	(2) Notches	Carbon Steel	STANLEY	11-961A	**5R707**	100
	(2) Notches, (1) Hole	Carbon Steel	Westward	—	**2ZRJ6**	100
	(2) Notches, (1) Hole	Carbon Steel	Westward	—	**2ZRJ4**	100
Sharp, Curved	(2) Notches	Carbon Steel	Westward	—	**2ZRK3**	1
Unbreakable Utility Blade						
Sharp, Straight	(2) Notches	Carbon Steel	Westward	—	**2ZRK4**	5
Unbreakable Safety Blade						
Round, Straight	(2) Notches	Carbon Steel	Westward	—	**2ZRK7**	5
Scoring Blade						
Hook, Straight	(1) Hole	Carbide Steel	Olfa	PB-800	**6ZTJ8**	3
Safety Point Blade Dispenser						
Blunt, Straight	(1) Notch	Carbon Steel	PHC	SPD-017	**4MUY5**	100
Safety Blade						
Round, Straight	(1) Hole	Carbon Steel	Westward	—	**2ZRN6**	10
	(1) Hole	Carbon Steel	Olfa	RSKB-2/50B	**5AV43**	50
	(1) Hole	Carbon Steel	Westward	—	**2ZRN7**	50
	(1) Notch	Ceramic	Slice	10524	**43Y399**	2
	(1) Notch	Ceramic	Slice	10404	**6XVR2**	4
	(2) Notches	Carbon Steel	STANLEY	11-987	**5R710**	5
	(2) Notches	Bi-Metal	IRWIN	2088300	**2WA18**	50
	(2) Notches	Carbon Steel	STANLEY	11-988	**5R711**	100
Blunt, Straight	(1) Notch, (2) L-Shaped Slots	Carbon Steel	PHC	SP-017	**4MUY4**	100
	(2) Notches	Bi-Metal	IRWIN	1764981	**4YRN9**	100
Razor Blade						
Sharp, Straight	(2) Holding Slots	Carbon Steel	PHC	INJ-010	**4MUW7**	100
	(2) Notches, Screw	Stainless Steel	Olfa	GSB-1S	**53UE15**	30
	Push Button, Holding Slot	Carbon Steel	Olfa	BS08-6B	**53UE17**	6
	Slides On	Carbon Steel	PHC	RB009	**26X080**	100
Blunt, Straight	Slides On	Carbon Steel	STANLEY	11-515	**4A807**	100
	Slides On	Carbon Steel	STANLEY	11-921Z	**33TC04**	500
Extension Adapter						
—	¾" Threaded	Plastic	PHC	DFCCON	**45PV81**	1
Cutter Head with Blade						
Safety Tip, Straight	Snap On	Stainless Steel	PHC	S5FC	**4MUX9**	3
Safety Tip, Hook	Push Button	Carbon Steel	Klever X-Change	KCJ-XH-4	**31VF52**	25
Craft Blade						
—	Manual	Ceramic	Slice	10518	**43Y398**	4
Carpet Knife Blade						
Blunt, Straight	(1) Holding Slot	Carbon Steel	STANLEY	11-530	**5C952**	100

Snap-Off Blades

Description	No. of Segments	Brand	Mfr. Model	Item No.	Pkg. Qty.
9mm					
(1) Hole Mount Type	13	Olfa	ABB-10B	**3KJD9**	10
30° Acute Angle w/Dispenser	7	Olfa	A1160B	**5LC50**	10
59° Extra Sharp, Carbon Steel	13	Olfa	ABB-50B	**3KJE1**	50
Blades Only	13	STANLEY	11-300	**5R693**	3
Carbon Steel w/Dispenser	13	Olfa	AB-10B	**5LC38**	10
Heavy-Duty	13	Westward	—	**2ZRJ7**	3
Stainless Steel w/Dispenser	13	Olfa	AB-10S	**5AY20**	10
Stainless Steel w/Dispenser	13	Olfa	AB-50S	**5AY21**	50
18mm					
(1) Hole Mount Type	8	Olfa	9070	**8RP80**	10
(1) Hole Mount Type	8	STANLEY	11-301L	**1UK37**	50
Heavy-Duty w/Dispenser	8	Olfa	LB-10B	**5LC37**	10
Heavy-Duty w/Dispenser	8	Olfa	LB-50B	**5LC40**	50
Hook Blades, SK5 Stainless Steel	4	Westward	—	**2ZRN4**	5
Large, SK5 Stainless Steel	13	Westward	—	**2ZRL8**	50
Single Hole Mount Type	8	Olfa	LFB-10B	**53UE10**	10
Single Hole Mount Type	8	Olfa	LB/CP100	**53UE07**	100
Single Hole Mount Type, Ultra Sharp	8	Olfa	LBB/CP100	**53UE08**	100



No. 5LC37

Description	No. of Segments	Brand	Mfr. Model	Item No.	Pkg. Qty.
SK5 Stainless Steel	8	Westward	—	**2ZRL7**	10
Snap-Off Blade	7	Olfa	CTB-5	**446G61**	1
Snap-Off Blade	8	STANLEY	11-718	**21Z010**	5
Snap-Off Blade	8	STANLEY	11-718T	**21Z006**	10
Snap-Off Blade	8	STANLEY	11-718L	**21Z002**	50
Snap-Off Hook Blade	4	Olfa	LH-20B	**5LC42**	5
UltraSharp Heavy-Duty w/Dispenser	8	Olfa	LBB-50B	**5LC48**	50
25mm					
(1) Hole Mount Type	7	STANLEY	11-725L	**21Z005**	20
Carbon Steel, Ultra Sharp	7	Olfa	HBB-20B	**6ZTK3**	20
Extra Heavy-Duty	7	Olfa	HB-5B	**5LC36**	5
Extra Heavy-Duty	7	Olfa	HB-20	**5LC47**	20
Single Hole Mount Type	4	Olfa	HH-12B	**53UE12**	3
Single Hole Mount Type	7	Olfa	HBB-5B	**53UE09**	5
Single Hole Mount Type	7	Olfa	HB/CP40	**53UE05**	40
Single Hole Mount Type, Ultra Sharp	7	Olfa	HBB/CP40	**53UE06**	40
Snap-Off Blade	7	STANLEY	11-325	**21Z001**	3
Snap-Off Blade	7	STANLEY	11-725	**21Z007**	5

Blade Disposal Containers

Description	Includes	Brand	Mfr. Model	Item No.
Press Release Operation Ensures Blade Slot Is Exposed Only When In Use, Reusable, Loop Hole And Peg Hole For Hanging, Holds Approx. 30 Blades	—	Olfa	DC-4	**3KJC9**
Sliding Door Securely Covers Blade Slot to Prevent Used Blades From Falling Out, Holds (50) Blades or (650) Blade Segments	—	Olfa	DC-3	**5AV41**
Belt Clip, Metal Panel For Safely Snapping Off Segmented Blades In 2-Positions	—	Olfa	DC-5	**34F816**
Holds Approximately (750) Blades	(2) Zip Ties	Pacific Handy Cutter, Inc	BB00205	**30HJ94**
Approximately (750) Blades	(2) Zip Ties, Wall Mount Bracket	Pacific Handy Cutter, Inc	BH00206	**30HJ96**
Lid is Tethered to Container	—	STANLEY	11-080	**1C085**
	Container and Wire Holder	STANLEY	11-081	**1C083**
Blade Disposal Rack Holds 1 Blade Disposal Unit 1C085	—	STANLEY	11-085	**9MGP2**



No. 1C085



9mm Standard Duty No. 21Y997



18mm Standard Duty No. 1CNZ1



18mm Heavy Duty No. 1MPP4



25mm Heavy Duty No. 1XDK4



25mm Extra Heavy Duty No. 5LC35

OLFA STANLEY WESTWARD DEWALT

Snap-Off Knives

- Carbon steel

Time-saving knives provide a new cutting edge with a single snap.

Blade Width	No. of Segments	No. of Blades Incl.	Stores	Handle Color	Handle Material	Overall Length	Brand	Mfr. Model	Item No.
Light Duty									
Slide									
9mm	13	1	None	Black/Yellow	Plastic	5½"	Olfa	180MP	**5LC33**
18mm	8	1	None	Black/Yellow	Plastic	6"	STANLEY	10-143P	**1UK26**
18mm	8	1	None	Black/Yellow	ABS	6½"	STANLEY	10-151	**3Q018**
Snap End Cap									
9mm	12	1	(1) Blade	Black/Blue	Plastic	5"	Westward	—	**1CNZ2**
23/64"	13	1	None	Black/Silver	Steel	5 7/64"	Westward	402L09	**402L09**
45/64"	8	1	None	Black/Blue	Plastic	6½"	Westward	402L10	**402L10**
Standard Duty									
Automatic									
9mm	13	2	(5) Blades	Black/Yellow	Plastic	5½"	Olfa	PA-2	**5AV40**
Cartridge									
18mm	8	1	(6) Blades	Black/Yellow	Multicomponent	7"	STANLEY	10-481	**21Y998**
Push Button									
9mm	13	1	None	Black/Yellow	Multicomponent	5¼"	DeWalt	DWHT10037	**21Y997**
18mm	8	1	None	Silver	Aluminum	6¼"	STANLEY	10-421	**21Y999**
18mm	8	1	None	Black/Yellow	Multicomponent	6¼"	STANLEY	DWHT10038	**21Y996**
Slide									
9mm	13	1	None	Black/Silver	Stainless Steel	5¼"	Olfa	SVR-1	**5LC41**
9mm	13	1	None	Black/Yellow	ABS	5⅛"	STANLEY	10-150	**6D016**
9mm	13	1	None	Black/Yellow	Plastic	5½"	Olfa	NA-1	**48TP92**
—	8	1	None	Yellow	ABS High Impact Plastic	5¾"	Olfa	SL-1	**34F815**
Snap End Cap									
18mm	7	1	(1) Blade	Black/Blue	Plastic	6"	Westward	—	**1CNZ1**
Thumb Blade Knob									
9mm	13	1	None	Yellow	ABS	5⅛"	Olfa	300	**6ZTJ5**
18mm	8	1	None	Yellow	ABS High Impact Plastic/ Stainless Steel	6"	Olfa	L-1	**34F812**
—	8	1	None	Yellow	ABS High Plastic	7"	Olfa	OL	**6ZTL1**
Tool Free									
9mm	13	1	(26) Blades	Black/Yellow	ABS	5⅜"	Olfa	DA-1	**34F814**
Heavy Duty									
Automatic									
18mm	8	6	(6) Blades	Yellow	ABS	6"	Olfa	PL-1	**6ZTL0**
Push Button									
25mm	7	1	None	Black/Yellow	Multicomponent	6"	STANLEY	DWHT10045	**21Y995**
25mm	7	1	(4) Blades	Black/Yellow	Multicomponent	8⅜"	STANLEY	10-486	**21Z004**
Slide									
18mm	8	1	None	Black/Yellow	Plastic	7"	Olfa	LA-X	**1MPP4**
18mm	8	1	None	Yellow	Plastic	6"	Olfa	CL	**5LC43**
18mm	8	2	None	Yellow	ABS	6¾"	STANLEY	10-280	**5HK78**
Thumb Blade Knob									
18mm	8	1	None	Black/Yellow	Plastic	11 7/64"	Olfa	XL-2	**6ZTK8**
25mm	7	4	(4) Blades	Black/Silver	Aluminum	8"	STANLEY	10-817	**1XDK4**
25mm	7	1	None	Black/Yellow	ABS	7"	STANLEY	10-425	**4FE34**
Tool Free									
18mm	8	1	None	Black/Yellow	Fiberglass/Elastomer	6 39/64"	Olfa	L-5	**53UE13**
18mm	8	1	None	Gray	Elastomer	6 3/16"	Olfa	NOL-1/BB	**53UE18**
18mm	8	1	(16) Blades	Black/Yellow	ABS	6 7/64"	Olfa	DL-1	**6ZTK6**
Extra Heavy Duty									
Slide									
25mm	7	1	None	Black/Yellow	Fiberglass	7½"	Olfa	XH-1	**1MPP3**
25mm	7	1	None	Yellow	ABS/PVC	6¾"	Olfa	H-1	**5LC35**
25mm	7	1	None	Gray	Plastic	7 1/32"	Olfa	NH-1	**48TP93**
Tool Free									
25mm	7	1	None	Yellow	ABS Resin	6 53/64"	Olfa	EH-1	**53UE19**



No. 423K18



No. 423K17



No. 6ZTK7

slice OLFA GENERAL

Precision Knives

Description	Handle Dia.	Handle Length	Overall Length	Use Replacement Blade No.	Brand	Item No.
Knives with Integrated Cap						
Textured Grip	13/32"	5 45/64"	6 13/32"	—	Slice	**423K18**
Knives						
Ring Style with Comfort Grip	1 39/64"	3½"	4 13/32"	—	Slice	**423K17**
Textured Grip	13/32"	5 45/64"	6 13/32"	—	Slice	**423K09**
Flat	5/16"	4 45/64"	5 39/64"	—	Slice	**423K16**
Snap-Off Art Knife	7/16"	5⅜"	5⅜"	5LC50	Olfa	**6ZTK7**
Replacement Blades						
Precision Art Blade, 100 PK	—	—	1⅝"	—	Olfa	**34F817**
Rounded Fine Angle Cut Blade	—	—	—	—	General	**3ZH11**
Penetrating Cut Blade	—	—	—	—	General	**3ZH13**


No. 4MUW5


No. 22VA97


No. 12F752


No. 33TC02


No. 4MUY3


No. 4MUW4


No. 25D165


No. 20F891


No. 436L67


No. 2WA17


No. 29UJ68

Safety Knives and Cutters

Blade Type	Blade Change	Overall Length	Blade Material	▶CHOOSE: Handle Color	No. of Blades Incl.	Brand	Item No.
Box Cutters							
Retractable							
Single Edge Razor	Slide	4 in	Carbon Steel	Mixed	1	PHC	**4MUW5**
Single Edge Razor	Slide	4 in	Carbon Steel	Silver	1	PHC	**4MUW6**
Disposable Film Cutters							
Fixed Blade							
Disposable	Non-Changeable	6 ½ in	Stainless Steel	Red	1	PHC	**22VA98**
Disposable	Non-Changeable	6 ½ in	Stainless Steel	White	1	PHC	**22VA97**
Folding Safety Cutters							
Retractable							
2-Sided Utility	Push Button	6 ⅜ in	Steel	Silver/Blue	1	Westward	**12F752**
Self-Retracting							
Rounded Safety Blade	Screw	4 in	Stainless Steel	Red, White, Yellow, Orange, Blue	12	PHC	**E5744**
Folding Safety Knives							
Self-Retracting							
Rounded Safety Blade	Push Button	6 ½ in	Carbon Steel	Orange	1	STANLEY	**33TC02**
Hook-Style Film and Foam Cutters							
Fixed Blade							
Injector	Quick-Change	8 ½ in	Carbon Steel	Yellow	3	PHC	**4MUY3**
Hook-Style Film Cutters							
Fixed Blade							
Straight	Non-Changeable	6 ½ in	Stainless Steel	Yellow	1	PHC	**4MUW4**
Hook-Style Safety Cutters							
Fixed Blade							
Cartridge	Push Button	7 in	Carbon Steel	Black/Yellow	1	Klever	**25D165**
Cartridge	Push Button	7 in	Carbon Steel	Black/Red	1	Klever	**25D166**
Cartridge	Push Button	7 in	Carbon Steel	Black/Orange	1	Klever	**25D167**
Safety Recessed	Slide	6 9⁄32 in	Carbon Steel	Yellow	1	Olfa	**6ZTL2**
Safety Recessed	Non-Changeable	6 ½ in	Carbon Steel	Blue, Orange, Red, Yellow	1	Klever Excel	**H5018**
Safety Recessed	Non-Changeable	7 in	Carbon Steel	Blue, Orange, Red, Yellow	1	Klever Excel	**H5019**
Safety Recessed	Push Button	7 in	Carbon Steel	Black/Blue	1	Klever	**25D164**
Pocket Safety Cutters							
Retractable							
Safety Utility Point	Push Button	5 ½ in	Carbon Steel	Blue	1	PHC	**20F891**
Safety Cutters							
Fixed Blade							
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Blue	1	Westward	**39CE80**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Orange	1	Westward	**39CE82**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Red	1	Westward	**39CE83**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Yellow	1	Westward	**39CE84**
Safety Recessed	Non-Changeable	5 ¾ in	Carbon Steel	Yellow, Blue, Red, Orange	1	Klever Koncept	**F9141**
Safety Recessed	Screw	6 in	Carbon Steel	Yellow	1	Olo	**1MPP8**
Safety Recessed	Push Button	6 ¼ in	Carbon Steel	Black/Yellow	1	Klever	**40P283**
Safety Recessed	Push Button	6 ½ in	Carbon Steel	Black/Yellow, Black/Orange, Black/Red, Black/Blue	1	Klever	**G6063**
Safety Recessed	Non-Changeable	4 ⅝ in	Stainless Steel	Dark Blue	1	Klever Kutter	**13C590**
Safety Recessed	Non-Changeable	4 ⅝ in	Carbon Steel	Black, Blue, Yellow, Red, Orange	1	Klever Kutter	**F9142**
Safety Recessed	Non-Changeable	4 ⅝ in	Carbon Steel	Yellow	1	Klever Kutter	**25GW28**
Safety Recessed	Non-Changeable	7 in	Carbon Steel	Orange	1	Klever Innovations	**436L67**
Safety Recessed	Non-Changeable	7 in	Carbon Steel	White	1	Klever Innovations	**436L68**
Safety Recessed	Non-Changeable	5 ¼ in	Carbon Steel	White	1	Klever Innovations	**436L63**
Safety Recessed	Non-Changeable	7 in	Carbon Steel	Yellow	1	Klever Innovations	**436L69**
Safety Recessed	Push Button	7 in	Carbon Steel	Silver	1	Klever Innovations	**436L66**
Safety Recessed	Push Button	6 ½ in	Carbon Steel	Silver	1	Klever Innovations	**436L65**
Safety Recessed	Non-Changeable	5 ¼ in	Carbon Steel	Orange	1	Klever Innovations	**436L62**
Safety Recessed	Non-Changeable	5 ¼ in	Carbon Steel	Yellow	1	Klever Innovations	**436L64**
Straight	Non-Changeable	3 in	Stainless Steel	Blue	1	PHC	**20F887**
Retractable							
Mfr. No. SP-017 or SPD-017	Quick-Change	6 in	Carbon Steel	Blue	1	PHC	**29UJ69**
Safety Knives							
Fixed Blade							
Rounded Safety Blade	Non-Changeable	5 ½ in	Stainless Steel	Blue	1	PHC	**4MUX6**
Rounded Safety Blade	Push Button	5 ¾ in	Carbon Steel	Blue	1	PHC	**31AD23**
Retractable							
Rounded Safety Blade	Push Button	5 ¾ in	Carbon Steel	Red	1	PHC	**4MUX7**
Rounded Safety Blade	Push Button	6 in	Carbon Steel	Green	1	PHC	**4MUY2**
Rounded Safety Blade	Push Button	6 in	Carbon Steel	Red	1	PHC	**4MUY1**
Rounded Safety Blade	Push Button	5 ¾ in	Carbon Steel	Green	1	PHC	**4MUX8**
Rounded Safety Blade	Screw	6 in	Carbon Steel	Gray	4	Westward	**4YR09**
Self-Retracting							
—	Quick-Change	5 ¾ in	Carbon Steel	Black/Blue	4	Westward	**22XP79**
Rounded Safety Blade	Slide	5 ¾ in	Carbon Steel	Black/Yellow	1	Olfa	**5LC46**
Rounded Safety Blade	Slide	6 ½ in	Carbon Steel	Black/Yellow	1	STANLEY	**45J352**
Rounded Safety Blade	Quick-Change	5 ½ in	Carbon Steel	High Visibility Orange	1	PHC	**4MUY7**
Rounded Safety Blade	Quick-Change	6 ¾ in	Carbon Steel	High Visibility Orange	1	PHC	**4MUX5**
Rounded Safety Blade	Screw	5 ⅞ in	Carbon Steel	Orange	1	STANLEY	**3Q021**
Rounded Safety Blade	Screw	6 in	Bi-Metal	High Visibility Red	1	IRWIN	**2WA17**
Rounded Safety Blade	Slide	6 in	Carbon Steel	Black/Yellow	1	Olfa	**2FTY3**
Rounded Safety Blade	Push Button	5 ½ in	Carbon Steel	Yellow	1	Olfa	**4GA85**
Rounded Safety Blade	Quick-Change	6 ½ in	Carbon Steel	Black/Gray	4	STANLEY	**31NE37**
Rounded Safety Blade	Push Button	6 in	Carbon Steel	Green	1	PHC	**22VA96**
Rounded Safety Blade	Quick-Change	5 ¾ in	Carbon Steel	High Visibility Yellow	1	PHC	**20F888**
Rounded Safety Blade	Quick-Change	5 ½ in	Carbon Steel	Blue	1	PHC	**31AD22**
Rounded Safety Blade	Screw	5 ⅝ in	Carbon Steel	Natural	1	STANLEY	**45JW96**
Rounded Safety Blade	Screw	5 ⅞ in	Carbon Steel	Orange	1	STANLEY	**24AL27**
Rounded Safety Blade	Slide	3 ⅛ in	Carbon Steel	Black/Yellow	1	Olfa	**2FTY4**
Rounded Safety Blade	Manual	6 in	Carbon Steel	Black/Blue	1	Martor	**35LV54**
Safety Blade	Quick-Change	5 ½ in	Carbon Steel	Black/Blue	1	Westward	**31XM99**
Safety Recessed	Screw	6 in	Carbon Steel	Black/Blue	3	Westward	**1YJD2**
Straight	Quick-Change	5 ¾ in	Carbon Steel	Black/Blue	4	Westward	**22XP80**
Safety Strap Cutters							
Fixed Blade							
Single Edge Razor	Tool Free	6 in	Carbon Steel	Gray/Yellow	1	PHC	**29UJ68**

Description	Brand	Item No.
Accessories		
Cutter Head with Blade, One-Sided Head for Klever X-Change	Klever X-Change	**25D163** *
Cutter Head with Blade, Two-Sided Head for Klever X-Change	Klever X-Change	**6ANT7** **
ABS Holster for 4MUX6	PHC	**4MUV8**
ABS Holster for 4MUX8, 4MUX7, 4MUY2, 4MUY1	PHC	**4MUY6**

** Pk. of 12. ** Pk. of 25.*


No. 6XVR1


No. 43Y397


No. 6XVP9


No. 31DA13

Safety Utility Knives

slice™

Ceramic blade cutters stay sharp and don't rust.

Item	Overall Length	Handle Color	Blade/Handle Material	No. of Blades Incl.	Mfr. Model	Item No.
Box Cutter	6½"	Gray/Green	Ceramic / Plastic	1	10503	**20H276**
	7"	Black/Orange	Ceramic / Plastic	1	10400	**6XVR1**
Pocket Utility Knife	2½"	Gray	Ceramic / Plastic	1	10514	**43Y397**
	5½"	Gray	Ceramic / Plastic	1	10512	**43Y396**
Safety Cutter	2⅛"	Green	Ceramic / ABS	1	00200	**6XVP9**
Utility Knife	5"	Gray	Ceramic / ABS	1	10513	**31DA13**
	6 7/32"	Orange/Black	Ceramic / Glass Filled Nylon	1	10550	**423K11**
	6 7/32"	Green/Black	Ceramic / Glass Filled Nylon	1	10554	**423K10**
	6 7/32"	Black/Blue	Ceramic / Glass Filled Nylon	1	10558	**423K12**


No. 6XVE6


No. 5FVT7


No. 23NK20

BENCHMADE GERBER SOG KNIVES + TOOLS


No. 6VER5

Tactical Knives & Machete

Description	Blade Material	Blade Length	Blade Type	Blade Edge	Handle Color	Includes	Brand	Item No.
Fixed Blade Knives								
Nimravus®	154CM Stainless Steel, Black	4 ½ in	Drop Point	Partially Serrated	Black	Multi-Function Nylon Sheath	Benchmade	**6XVP3**
StrongArm, Includes Sheath	420 High Carbon Steel	4 13/16 in	Full Tang	Fine	Coyote/Tan	Sheath	Gerber	**38VG20**
LMF II Infantry	420HC Stainless Steel, Black	4 27/32 in	Drop Point	Serrated	Coyote Brown	Sheath	Gerber	**23NK37**
Strongarm	420 High Carbon Steel	4 13/16 in	Full Tang	Serrated	Black	Sheath	Gerber	**38VG19**
	420 High Carbon Steel	4 13/16 in	Full Tang	Serrated	Coyote/Tan	Sheath	Gerber	**38VG21**
Seal Pup Elite(TM)	AUS-8 Stainless Steel w/ Black TiNi Finish	4 ⅞ in	Fixed	Partially Serrated	Black	Nylon Sheath	SOG	**5FVU5**
LMF II	Black Stainless Steel	4 ⅞ in	Drop Point	Partially Serrated	Black	Molle Compatible Hard Sheath with Belt Loop and Built In Sharpener	Gerber	**2EVG8**
Adamas™	D2 Steel	4 ¼ in	Drop Point Black	Fine	Black	Black Injected Molded Sheath w/Secondary Locking Strap And Tension Screw	Benchmade	**19T099**
	D2 Steel	4 ¼ in	Drop Point Black	Fine	Black	Sand Colored Injected Molded Sheath w/Secondary Locking Strap And Tension Screw	Benchmade	**19T098**
	D2 Steel	4 ¼ in	Drop Point Sand	Fine	Sand	Sand Colored Injected Molded Sheath w/Secondary Locking Strap And Tension Screw	Benchmade	**19T097**
Folding Knives								
Escape, Folding Rescue	9Cr18MoV Stainless Steel	3 7/16 in	Spear Point, Black	Partially Serrated	Black	—	SOG	**20H250**
Rift	154CM Stainless Steel, Black	3 11/16 in	Reverse Tanto	Partially Serrated	Black And Charcoal	—	Benchmade	**6XVF7**
Rift, Black And Charcoal	154CM Stainless Steel	3 11/16 in	Reverse Tanto	Fine	Black And Charcoal	—	Benchmade	**6XVF6**
Mini-Barrage	154CM Stainless Steel, Black	2 15/16 in	Drop Point	Fine	Black	—	Benchmade	**6XVE6**
Propel Auto - 420C Blade, Black G-10 Handle	420HC Steel, Black	3 ½ in	Tanto	Partially Serrated	Black	Sheath	Gerber	**23NK21**
Propel AO - 420C Blade, Black G-10 Handle	420HC Steel, Black	3 ½ in	Tanto	Partially Serrated	Black	Sheath	Gerber	**23NK23**
Mini Pentagon(TM), Straight/ Serrated Blade, Black	AUS-8 Stainless Steel	3 5/8 in	Fixed	Straight/Serrated	Black	Kydex Sheath	SOG	**5FVX3**
Flash II	AUS8 Stainless Steel, Black TiNi	3 ½ in	Tanto	Partially Serrated	Black	—	SOG	**6XWZ0**
Aegis(TM)	AUS-8 Stainless Steel w/ Black TiNi Finish	3 ½ in	Drop Point	Straight	Black	Reversible Bayonet Pocket Clip	SOG	**5FVT7**
Trident(TM)	AUS-8 Stainless Steel w/ Black TiNi Finish	3 ¾ in	Clip Point	Partially Serrated	Black	Reversible Bayonet Pocket Clip	SOG	**5FVY4**
Hinderer CLS, Liner Lock	Black Stainless Steel	3 ½ in	Drop Point	Fine/Serrated	Black	Belt Clip	Gerber	**2EVD6**
Paraframe – Tanto	Black Titanium Nitride Coated Steel	2 15/16 in	Tanto	Partially Serrated	Black	—	Gerber	**45J122**
FAST Draw	Black Titanium Nitride Coated Steel	3 in	Tanto	Partially Serrated	Black	—	Gerber	**45J119**
Mini Paraframe – Tanto	Black Titanium Nitride Coated Steel	2 in	Tanto	Fine	Black	—	Gerber	**45J121**
Contego™, Folding	CPM-M4	4 in	Reverse Tanto Black	Partially Serrated	Black	Carbide Glass Breaker	Benchmade	**19T109**
	CPM-M4	4 in	Reverse Tanto Satin	Fine	Black	Carbide Glass Breaker	Benchmade	**19T106**
Adamas™, Folding	D2 Steel	3 13/16 in	Drop Point, Black	Fine	Sand	MOLLE® Pouch Sheath	Benchmade	**19T095**
	D2 Steel	3 13/16 in	Drop Point, Black	Partially Serrated	Sand	MOLLE® Pouch Sheath	Benchmade	**19T096**
Propel Downrange Auto - S30V Blade, Tan G-10 Handle	S30V Steel, Black	3 ½ in	Tanto	Partially Serrated	Tan	Sheath	Gerber	**23NK20**
Gerber 06 Auto, Serrated - Box	S30V Steel, Black	3 ¾ in	Tanto	Serrated	Black	Sheath	Gerber	**23NK44**
EVO Midsize	Stainless Steel	3 ⅛ in	Tanto	Partially Serrated	Black	—	Gerber	**6VER5**
STL 2.5	Stainless Steel	2 39/64 in	Drop Point	Fine	Black	—	Gerber	**6VEX5**
Covert FAST - Black, Serrated - Clam	Titanium Coated Stainless Steel	3 23/32 in	Drop Point	Partially Serrated	Black	—	Gerber	**6VEW1**
Machete								
SOGFari Machete	—	18 in	—	—	—	Nylon Sheath	SOG	**20H272**


No. 6VER4


No. 5RA93


No. 5FVU6


No. 1XFA3


No. 4RDR6


No. 3PU59


No. 1XJA9

Folding Knives

Description	Blade Material	Blade Length	Blade Edge	Brand	Item No.
Pocket Clip Folder					
Barrage	154CM Stainless Steel	3⅝"	Fine	Benchmade	**6UPJ3**
E.A.B. Lite	Stainless Steel	1½"	Fine	Gerber	**6VER4**
EVO	Stainless Steel With Titanium Nitride Coating	3½"	Serrated	Gerber	**5RA93**
EVO, Frame Lock	Titanium Coated Stainless Steel	3½"	Fine	Gerber	**1XEZ9**
Flash™ II	AUS-8 Stainless Steel w/Black TiNi Finish	3½"	Partially Serrated	SOG	**5FVY7**
Hunting w/Clip Point Blade	Stainless Steel	3½"	—	Westward	**1YJE6**
Kilowatt™	AUS-8 Stainless Steel w/Satin Finish	3½"	Straight	SOG	**5FVU6**
Mini, Frame Lock	Stainless Steel	2¼"	Serrated	Gerber	**1XFA2**
Paraframe, Frame Lock	Stainless Steel	3"	Serrated	Gerber	**1XFA3**
Paraframe I, Liner Lock	High Carbon Stainless Steel	3"	Fine	Gerber	**2EVF2**
Remix Clip F/E	7Cr17MoV Steel	2⅞"	Fine	Gerber	**4RDR6**
Salute™	8Cr13MoV Stainless Steel w/Black Oxide Finish	3⅝"	Straight	SOG	**5FVU9**
Trident™	AUS-8 Stainless Steel w/Black TiNi Finish	3¾"	Straight	SOG	**5FVY6**
Twitch II™	AUS-8 Stainless Steel	2 1/16"	Straight	SOG	**5FVY9**
Sheath Folder					
Bear Grylls Ultimate	High Carbon Stainless Steel	4 3/16"	Partially Serrated	Gerber	**6VEU9**
Gator®	Stainless Steel	3¾"	Serrated	Gerber	**5LM31**
Gator®	Stainless Steel	3¾"	Fine	Gerber	**5LM30**
Single Blade Folder					
FatMax	Stainless Steel	3¼"	Straight/Serrated	FATMAX	**410D19**
FatMax	Stainless Steel	3½"	Straight/Serrated	FATMAX	**410D20**
L.S.T.	420HC Stainless Steel	2⅝"	Fine	Gerber	**3PU59**
STL 2.0, Frame Lock	Stainless Steel With Titanium PVD Coating	2⅛"	Fine	Gerber	**1XJA9**
Swagger, Drop Point, Serrated - Clam	Stainless Steel	3 21/64"	Partially Serrated	Gerber	**6VEX2**
Stockman Folder					
Folding Pocket	Stainless Steel	2¼"	Fine	Westward	**1YJE5**


No. 31EP12


No. 23NK39


No. 6XVP2

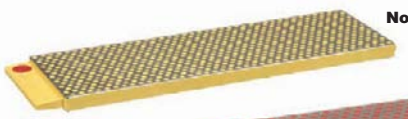
Rescue Knives and Tools

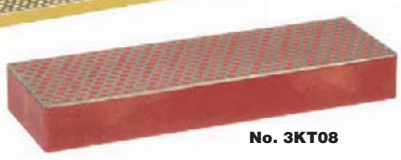
Description	Handle Color	Handle Type	Overall Length	Blade Length	Brand	Item No.
Rescue Knives						
Boot Knife, Ghostrike Fixed Blade, Fine Edge Drop Point Blade	Black	Textured Grip	6 29/32"	3 5/16"	Gerber	**31EP12**
Ghoststrike Punch Knife, Drop Point Blade	Black	Textured Grip	4 13/16"	2½"	Gerber	**31EP14**
Rescue Hook						
w/Integrated Oxygen Tank Wrench, Glass Breaker	Black	Textured Edge	8⅛"	2 59/64"	Gerber	**23NK39**
Rescue Tool						
Pen, w/Integrated Glass Breaker Tip	Black	Ergonomic	5 19/32"	—	Gerber	**33GM35**
Safety Cutters						
w/Coyote Soft Sheath Nylon Webbing Pouch with Hook-and-Loop Closure, Retention Band	Black	Vinyl Coated	4⅜"	½"	Benchmade	**6XVN9**
Medical, w/Soft Nylon Sheath	Black	Full-Tanged	6½"	½"	Benchmade	**6XVP1**
Long, w/Soft Sheath	Black	Full-Tanged	6½"	½"	Benchmade	**6XVP2**

Knife Sharpening Stones

- Diamond abrasive

Description	Grade	Color	L	W	H	Item No.
Mini-Sharp® Sharpener	Fine	Red	2⅝"	⅞"	¼"	**3KR90**
Double-Sided Diafold® Sharpener	Fine/Coarse	Red/Blue	4⅓"	⅞"	¼"	**1RF69**
Diamond Whetstone™ w/Plastic Box	Fine	Red	6"	2"	¾"	**3KT08**
DuoSharp® Bench Stones	Fine/Coarse	Red/Blue	8"	2⅝"	⅜"	**1RF73**


No. 1RF69


No. 3KT08

Find more styles and colors, and more information on each tool's functions at Grainger.com®.



Skeletool DLC Coating
No. 4AND5



600 Pro Scout™
No. 3BB52



Crunch
No. 4ANE6



Needle Nose/Utility Knife Set
No. 1YJC7



MP600 Bladeless
No. 19YH58

Multi-Tools

VICTORINOX SWISS ARMY · LEATHERMAN · GERBER · PROTO · SOG KNIVES • TOOLS · WESTWARD · STANLEY

Pocket—Small and light enough to be carried in a pants pocket.

One-Hand Opening—Frees the other hand to hold workpieces in place.

Needle-Nose Plier-Based—Can be used at multiple angles.

Locking Plier Head—Snap into ready position with one hand, and lock down for a tight bite. Includes sheath.

Compact—Small enough to attach to a key ring.

Butterfly-Opening—Larger center-opening tools are built for a wide variety of jobs.

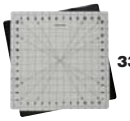
Description	No. of Tools	No. of Functions	Brand	Item No.
Pocket Multi-Tools				
CyberTool M	24	34	Victorinox	**5LW46**
MUT, Black, EOD	15	15	Leatherman	**5YJX6**
Fieldmaster®	15	15	Victorinox	**6GCT2**
Swiss Champ®	15	33	Victorinox	**6D003**
Climber®	14	14	Victorinox	**6GCT3**
Multi-Plier 600 - Bluntnose Black w/Carbide Insert Cutters, Berry-Compliant Sheath - Box	14	14	Gerber	**23NK55**
Center-Drive, Fine Edge, Sheath	14	14	Gerber	**52JH39**
Center-Drive, Fine Edge, Sheath and 12-Pc Bit Set	14	14	Gerber	**52JH40**
Center-Drive, Fine Edge, Berry Sheath	14	14	Gerber	**52JH43**
Center-Drive, Fine Edge, Berry Sheath and 12-Pc Bit Set	14	14	Gerber	**52JH44**
Multi-Plier 600 - Needlenose Stainless w/ Carbide Insert Cutters, Sheath - Box	13	13	Gerber	**23NK56**
DIME™ Micro Tool, Fine Edge	12	12	Gerber	**21A151**
Multi-Plier 600-ST (Sight Tool), Black, Sheath	11	11	Gerber	**23NK59**
Huntsman, Green Camo	9	15	Victorinox	**45J366**
Red Classic	7	7	Victorinox	**6D001**
Black Classic	7	7	Victorinox	**5LW42**
Ruby Classic	7	7	Victorinox	**6GCT9**
Silvertech Signature Lite	7	7	Victorinox	**6GCT6**
Skeletool Combo Blade	7	7	Leatherman	**4AND4**
Skeletool DLC Coating	7	7	Leatherman	**4AND5**
Skeletool, Clip Point Combo Straight/Serrated Knife	7	7	Leatherman	**9R248**
Skeletool	7	7	Leatherman	**8ZN27**
Folding Knife	6	12	Victorinox	**39CG40**
Folding Knife	6	13	Victorinox	**39CG38**
Tinker	5	12	Victorinox	**6D002**
Electrician	4	7	Victorinox	**6D004**
Electrician's Self Locking	2	4	Proto	**4R169**
Raptor, Multi-Tool, Steel	1	6	Leatherman	**41U105**
One-Hand Opening Multi-Tools				
OHT, Black w/Black Molle Sheath	16	16	Leatherman	**41U101**
OHT, Tan w/Black Molle Sheath	16	16	Leatherman	**41U102**
OHT, Black w/Tan Molle Sheath	16	16	Leatherman	**41U103**
OHT, Tan w/Tan Molle Sheath	16	16	Leatherman	**41U104**
MP600, Blunt Nose, Stainless	15	15	Gerber	**1XEZ6**
MP600 Pro Scout™	14	14	Gerber	**3BB52**
MP 600, Needlenose, Black Oxide	14	14	Gerber	**6FZL8**
MP600, Needlenose, Stainless	14	14	Gerber	**5LM41**
MP600 Multi-Tool and LED Flashlight Combo	14	14	Gerber	**19LZ18**
Diesel	13	13	Gerber	**1XFA5**
Needle-Nose Plier-Based Multi-Tools				
SIGNAL™	19	19	Leatherman	**39CG20**
REBAR®	17	17	Leatherman	**38HT39**
Diesel Multi-Plier	12	12	Gerber	**23NK52**
D.E.T.	9	12	Gerber	**2EVF1**
Locking Plier Head Multi-Tools				
Crunch	15	15	Leatherman	**4ANE6**
Compact Multi-Tools				
Multi-Plier® 400 Compact	11	11	Gerber	**5LM29**
Curve - Gray	6	6	Gerber	**4RDT3**
Curve - Blue	6	6	Gerber	**4RDT4**

Description	No. of Tools	No. of Functions	Brand	Item No.
Butterfly-Opening Multi-Tools				
SwissTool Spirit Plus	27	27	Victorinox	**6GCU1**
SwissTool Spirit Plus Ratchet	27	27	Victorinox	**6GCT7**
Surge Black Oxide	21	21	Leatherman	**4ANE2**
SURGE®	21	21	Leatherman	**9UED0**
ST300 SS	19	19	Leatherman	**5CZF5**
Super Tool 300, Hex 5⁄16, 7⁄32, 1⁄8 in Slotted, #2 Phillips Screwdrivers	19	19	Leatherman	**5CZF6**
Super Tool 300, Serrated	19	19	Leatherman	**19LY95**
Super Tool 300	19	19	Leatherman	**8ZT30**
Super Tool 300, Leather	19	19	Leatherman	**8MVY5**
Charge Plus TTI	19	19	Leatherman	**456K79**
Wave Plus	18	18	Leatherman	**456K80**
Charge Plus	18	18	Leatherman	**456K78**
Wave Plus CC	18	18	Leatherman	**456K82**
Wave Plus	18	18	Leatherman	**456K81**
Rebar™	17	17	Leatherman	**19T222**
Rebar™, Serrated	17	17	Leatherman	**19T219**
Multi-Tool, Black Oxide	16	16	SOG	**5FVU2**
MUT, Black	16	16	Leatherman	**5YJX5**
MUT (Military Utility Tool)	16	16	Leatherman	**6XDT0**
Rebar Knifeless	15	16	Leatherman	**52NT88**
Needle Nose/Utility Knife Set	15	15	Westward	**1YJC7**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**19LY97**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**6XDT5**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**6XDT4**
Diesel	14	14	Gerber	**6FZL9**
Sidekick™	14	14	Leatherman	**19T220**
Wingman ®	14	14	Leatherman	**19T221**
Gerber Gear	12	12	Gerber	**45NV86**
DIME™ Micro Tool	12	12	Gerber	**21A150**
Multi-Tool	12	12	Westward	**6ATV1**
Suspension™	12	12	Gerber	**2ZB19**
Swiss Tool™ X	12	27	Victorinox	**2PU14**
Swiss Tool™ Spirit	12	27	Victorinox	**2PU15**
Swiss Tool™	12	27	Victorinox	**5LW45**
Full Size	12	12	STANLEY	**3FRA8**
SwissTool Spirit X, Drop Point	10	27	Victorinox	**19T438**
Bladeless Multi-Tool				
MP600 Bladeless	12	12	Gerber	**19YH58**
Accessory - Multi-Tool Bracelet				
TREAD™	29	29	Leatherman	**39CG06**
Accessory - Knife Pouch				
For Knives up to 3½" Folded Length	—	—	Victorinox	**6GCT4**
Accessories for 5YJX5 and 5YJX6				
Cutter Inserts	—	—	Leatherman	**5YJX7**
Carbon Scraper	—	—	Leatherman	**5YJX8**
Punch	—	—	Leatherman	**5YJX9**
Punch, 1⁄8"	—	—	Leatherman	**5YJY0**
Hook Cutter	—	—	Leatherman	**5YJY1**
Wrench	—	—	Leatherman	**5YJY2**

FISKARS · OLFA — Best made cutting tools in the world.®

No. 2CJX2





No. 33M303

Rotary Cutting Mats

Self-healing, double-sided mats have grid lines on 1 side for detailed cutting.

Description	L (in.)	W (in.)	Brand	Item No.
Rectangular				
Gray with Grid on Both Sides	12	18	Fiskars	**33M304**
One Side Green with Yellow Lines, Other Side Solid Green	18	24	Olfa	**2CJX1**
	24	36	Olfa	**2CJX2**
Square				
Gray with Grid on One Side, Solid Black on Other Side	8	8	Fiskars	**33M302**
	14	14	Fiskars	**33M303**
One Side Green w/White Lines, Other Side Solid Green	36	24	Olfa	**3KJD7**
One Side Translucent w/White Lines, Other Side Solid Translucent	36	24	Olfa	**3KJD8**



No. 2CJU9



No. 2CJU8

OLFA — Best made cutting tools in the world.® · FISKARS

Rotary Cutters

Use tools to easily cut paper, plastic, vinyl, composites and textiles.

Description	Brand	Item No.
Rotary Cutters		
Ergonomic		
60mm	Olfa	**2CJU9**
60mm	Fiskars	**4RNT7**
45mm	Olfa	**2CJU7**
Straight		
45mm	Olfa	**2CJU8**
Rotary Cutter Replacement Blades		
28mm, Tungsten Carbide	Olfa	**2CJV6**
45mm, Tungsten Carbide	Olfa	**2CJW1**
60mm, Tungsten Carbide	Olfa	**2CJW4**


No. 10F730


No. 45ND54


No. 423K15

Scissors

Description	Length of Cut	Brand	Item No.
Electrician's/Electronics Scissors			
High Carbon Steel			
Ring and RIng Handle, Blunt Tip, Serrated, Wire Cut Knotches, Ambidextrous	1 3/16"	Clauss	10F730
Electricians Scissors, Ring and Bow Handle, Sharp Tip, Right Handed	1 3/4"	Jonard Tools	4AVK1
Ring and Ring Handle, Sharp Tip, Right Handed	1 7/8"	Klein Tools	2DFJ3
Nickel Chrome			
Scissors, Ring and Ring Handle, Curved, Extra Sharp Tip, Right Handed	7/8"	Heritage	4VAT5
Shear, Curved, Ring and Ring Handle, Extra Sharp Tip, Right Handed	1"	Heritage	4VAT3
Stainless Steel			
Elongated Rings Handle, Sharp Tip, Ambidextrous	1 5/8"	Westward	2UJX8
Ring and Bow, Sharp Tip, Stripping Notches, Right Handed	1 7/8"	Klein Tools	4VAN9
Ring and Ring Handle, Sharp Tip, Serrated, Stripping Notches, Right Handed	1 7/8"	Klein Tools	4VAP1
Ring and Bow Handle, Sharp Tip, Ambidextrous	2 1/2"	Westward	4YP41
Tempered Steel			
Scissor with Stripping Notches, Ring and Ring Handle, Blunt Tip, Serrated, Stripping Notches,Right Handed!	1 7/8"	Klein Tools	2DGR9

Description	Length of Cut	Brand	Item No.
Fabric/Fiber Scissors			
Nickel Chrome			
Pocket Safety Thread Yarn Scissor, Elongated Ring Handle, Blunt Tip, Right Handed	2 5/16"	Heritage	4VAR7
Stainless Steel			
Curved Scissors, Ring Handle, Sharp Tip, Ambidextrous	1"	Fiskars	45ND54
Scissors			
Ceramic			
Scissors, Ring and Ring Handle, Blunt Tip, Serrated, Ambidextrous	2"	Slice	423K15
Forged Steel			
Shear, Ring and Ring Handle, Sharp Tip, Right Handed	3/4"	Clauss	22UN25
Shear, Ring and Ring Handle, Blunt Tip, Right Handed	1 1/4"	Clauss	22UN33
Stainless Steel			
HD Scissor		Jonard Tools	34RP86
Scissors, Ring and Ring, Sharp Tip, Blade, Ambidextrous	2 1/2"	Gingher	45ND47
Heavy-Duty Shear, Oversized Fulcrum, Adjustable Tension, Ring and Bow Handle, Sharp Tip, Right Handed	3 1/2"	Clauss	19T041
Steel			
Scissors, Ergonomic Plastic Handle, Blunt Tip, Serrated, Ambidextrous	3 1/2"	Fiskars	425X88
Titanium Bonded® Steel			
Scissors, UltraFlex Handle, Sharp Tip, Ambidextrous	1 5/8"	Clauss	10F710


No. 45ND49


No. 4VAP7


No. 2UJY3


No. 4VAN1


No. 5LC53


No. 2UJY1

Shears

Description	Length of Cut	Brand	Item No.
Carpet/Fabric Industrial Shears			
Nickel Chrome			
Offset, Ring and Bow Handle, Blunt Tip, Right Handed	2 3/4"	Heritage	4VAV3
Offset, Ring and Bow Handle, Blunt Tip, Right Handed	2 3/4"	Heritage	4VAU9
Offset Utility, Ring and Bow Handle, Sharp Tip, Right Handed	3"	Heritage	4VAV2
Stainless Steel			
Ergonomic, Ring and Bow Handle, Sharp Tip, Right Handed, Serrated	2"	Fiskars	45ND49
Ergonomic, Ring and Bow Handle, Sharp Tip, Right Handed, Serrated	4"	Fiskars	45ND51
Electrician's/Electronics Kevlar Shears			
Nickel Chrome			
Self-Opening Snip, Cushion Grip Curved Handle, Sharp Tip, Serrated, Right Handed	1"	Klein Tools	4VAP7
Fabric/Fiber Shears			
Forged Steel			
Bent Shear, Ring and Bow Handle, Sharp Tip, Right Handed	4 1/2"	Clauss	10F728
Bent Shear, Ring and Bow Handle, Blunt Edge, Right Handed	4 1/2"	Clauss	10F726
Bent Shear, Ring and Bow Handle, Sharp Tip, Right Handed	6"	Clauss	10F727
Hard Coat Chrome			
Kevlar Shears, Bent, Ring and Bow Handle, Blunt Tip, Right Handed, Serrated	3 5/8"	Heritage	4VAT7
High Carbon Steel			
Kevlar Shears w/Safety Latch, Ergonomic, Sharp Tip, Ambidextrous	1 1/4"	Westward	2UJY3
Kevlar Shears, Ring Handle, Sharp Tip, Ambidextrous	1 5/8"	Westward	2UJY2
Nickel Chrome			
Heavy-Duty, Bent, Ring and Bow Handle, Blunt Tip, Right Handed	3 3/16"	Klein Tools	4VAR3
Heavy-Duty, Bent, Ring and Bow Handle, Sharp Tip, Right Handed	4 3/4"	Klein Tools	4VAR2
Titanium Bonded® Steel			
Shear, Bent, Ring and Bow Handle, Sharp Tip, Right Handed	3 5/8"	Clauss	10F706
Poultry Shear			
Nickel Chrome			
High Leverage, Ring and Bow Handle, Sharp Tip, Right Handed	3"	Heritage	4VAN1
Enlarged Lower Ring Handle, Blunt Tip, Right Handed	3 1/2"	Heritage	4VAU5
Enlarged Lower Ring Handle, Sharp Tip, Right Handed	4 1/4"	Heritage	4VAU3
Stainless Steel			
Enlarged Lower Ring Handle, Ball Tip, Right Handed	3"	Heritage	4VAT9
High Leverage, Enlarged Bow Handle, Sharp Tip, Right Handed	3"	Heritage	4VAU2
High Leverage, Enlarged Lower Ring Handle, Sharp Tip, Right Handed	3"	Heritage	4VAU1
Light-Duty, Enlarged Lower Ring Handle, Sharp Tip, Right Handed	3 1/8"	Westward	4YP40
Heavy-Duty, Enlarged Lower Ring Handle, Sharp Tip, Right Handed	3 1/2"	Westward	4YP39

Description	Length of Cut	Brand	Item No.
Curved and Enlarged Bow Handle, Sharp Tip, Right Handed, Black & Gray	4"	Fiskars	45ND52
Curved and Enlarged Bow Handle, Sharp Tip, Right Handed, Orange & Gray	4"	Fiskars	45ND53
Shears			
Cutlery Steel, Polished			
Offset with Enlarged Lower Ring	5"	Crescent Wiss	4CP69
Forged Steel			
Shear, Ring and Bow Handle, Sharp Tip, Right Handed	2 1/2"	Clauss	22UN46
Nickel Chrome			
Broad Blade Shear, Ring and Bow Handle, Sharp Tip, Serrated, Right Handed	2"	Klein Tools	4VAP4
High Leverage Shear, Ring and Bow Handle, Sharp Tip Serrated, Right Handed	3"	Klein Tools	4VAP5
Bent Shear, Ring and Bow Handle, Sharp Tip, Right Handed	6"	Heritage	4VAL7
Stainless Steel			
Shear, Curved Handle, Sharp Tip, Ambidextrous	1 1/4"	Westward	2UJX9
Industrial Shears, Ring and Ring Handle, Serrated, Right Handed	1 37/64"	Olfa	5LC53
Shear, Curved Handle, Blunt Tip, Ambidextrous	1 5/8"	Westward	4YP37
Industrial Shears, Ring and Ring Handle, Serrated, Right Handed	2 5/32"	Olfa	5LC54
Light Weight Shear, Extra Large UltraFlex Ring and Bow Handle, Sharp Tip, Right Handed	3 1/2"	Clauss	19T042
Bent Shear, Light Weight, Extra Large UltraFlex Ring and Bow Handle, Sharp Tip, Right Handed	3 1/2"	Clauss	19T045
Steel			
Shears, Ergonomic Plastic Handle, Blunt Tip, Serrated, Ambidextrous	4 1/4"	Fiskars	425X89
Shears, Ergonomic Plastic Handle, Blunt Tip, Serrated, Ambidextrous,	4 1/4"	Fiskars	425X90
Titanium Bonded® Steel			
Scissors, Ring Handle, Micro Tip, Ambidextrous	1"	Clauss	10F711
Snips, Bent, Ergonomic Ring and Bow Handle, Serrated, Blunt Tip, Ambidextrous	1 5/8"	Clauss	10F717
Shear, Bent, UltraFlex Handle, Sharp Tip, Ambidextrous	2"	Clauss	10F708
Snips w/Spring Assist, Non-Slip RibGrip Handles, Sharp Tip, Right Handed	2 1/2"	Clauss	5EHK1
Shear, Bent, Ultraflex Handle, Sharp Tip, Right Handed	3 1/4"	Clauss	5EHJ7
Shear, RibGrip Handle, Sharp Tip, Ambidextrous	3 1/4"	Clauss	10F714
Shear, Ring and Bow Handle, Sharp Tip, Right Handed	3 1/2"	Clauss	5EHK0
Shear, Bent, Ergonomic Ring and Bow Handle, Sharp Tip, Right Handed	3 1/2"	Clauss	5EHJ6
Shear, Bent, UltraFlex Handle, Sharp Tip, Ambidextrous	4 3/8"	Clauss	10F707
Wood Shears			
Stainless Steel			
Offset, Curved Handle, Blunt Tip, Ambidextrous	1 5/8"	Westward	2UJY1
Curved Handle, Blunt Tip, Ambidextrous	2"	Westward	2UJX7


No. 1UG16



No. 4VAV6


No. 2ZY15


No. 425X91


No. 1UG18


No. 5MW41

Milwaukee · DEWALT · WESTWARD · Wiss · Malco · KLEIN TOOLS · Heritage Cutlery · FISKARS

Snips

AVIATION SNIPS

Cut sheet metal, rolled steel and other metals. Nonslip, serrated jaws.

3-Pc. Sets—Steel jaws are hardened, tempered, and can be sharpened. Set No. 4PM06 includes Nos. 5MX59, 1UG17, and 1UG18. Set No. 5MD08 includes Nos. 4X863, 4X864, and 4X865.

2-Pc. Offset Set—Drop-forged, hardened alloy steel blades are offset to keep hands away from cutting surface. Comfort-grip PVC handles. Includes Nos. 1UG15 and 1UG16.

INLAID INDUSTRIAL SNIPS

Make straight cuts and cut wide curves when trimming light stock.

MULTIPURPOSE SNIPS

Cut a variety of materials from paper to aluminum, sheet metal, and screening.

TINNER'S SNIPS

For trimming light stock, paper, linoleum, and sheet metal. Set No. 4YP53 includes 7 and 10" snips.

Description	Overall Length (in.)	Metal Gauge	Cutting Edge	Handle Design	Brand	Item No.
Aviation Snips						
Left/Right/Straight Cutting Action						
3-Pc. Set	—	18 Mild, 22 Stainless Steel	Knife	Ergonomic Soft Grip	Milwaukee	437K31
	—	18 Mild	Serrated	Ergonomic Rubber Grip	DeWalt	410D25
	9¾	18 Mild	Serrated	Vinyl Cushion Grip	Westward	4PM06
	9¾	18 Mild	Serrated	Vinyl Cushion Grip	Crescent Wiss	5MD08
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X865
	10½	18 Mild	Serrated	Ergonomic	Crescent Wiss	31LZ42
Left/Right Cutting Action						
2-pc. Offset Set	9¾	18 Mild	Serrated	PVC Cushion Grip	Westward	4YP54
2-Pc. Set	—	18 Mild, 22 Stainless Steel	Knife	Ergonomic Soft Grip	Milwaukee	437K30
Left/Straight/Circles Cutting Action						
Offset	10¾	18 Mild/18 Galvanized/20 Stainless Steel	Serrated Top Blade	Color Coded Molded Thermoplastic Grip	Malco	2CJY9
Left/Straight Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X863
Offset	9¼	18 Mild	Serrated	Non-Slip Grip	Crescent Wiss	5A447
Left Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	6C198
Offset	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG15
Notching/Trimming Cutting Action						
Bulldog	10	18 Galvanized/20 Stainless Steel	Serrated Lower Jaw	Color Coded Plastic Grip	Malco	2CJY8
Right/Straight Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X864
Offset	9¼	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	5A448
Right Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	6C199
Offset	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG16
Straight Cutting Action						
Bulldog	9¼	16 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	1A631
Electrician's/Electronics Snips						
Self Opening, Sharp Tip, Serrated, Right Handed	—	—	Serrated	Cushion Grip Curved	Klein Tools	4VAP8
Fabric/Fiber Snips						
Thread Clip Snip, Self-Opening, Blunt Tip, Right Handed	—	—	Knife	Single Ring	Heritage	4VAV7
Thread Clip Snip, Self-Opening, Sharp Tip, Right Handed	—	—	Knife	Single Ring	Heritage	4VAV6
Inlaid Industrial Snips						
Industrial Snip	14½	18 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY15
	16½	16 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY14
Metal Cutting Snip						
Left/Right/Straight Cutting Action						
Multipurpose	—	22 Cold Rolled Steel	Knife	Ergonomic	Fiskars	425X92
Multipurpose Snips						
Blunt Tip, Serrated, Ambidextrous	—	—	Serrated	Ergonomic	Fiskars	425X91
Left Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG18
Right Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG17
Straight Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	5MX59
	10½	20 Mild	Serrated	Non-Slip Grip	Crescent Wiss	4NV65
Tinner's Snips						
Straight Cutting Action						
2-pc. Set	7 & 10	20 Mild	Serrated	Vinyl Cushion Grip	Westward	4YP53
Duckbill	10¼	24 Mild	Knife	Ergonomic Cushion Grip	Crescent Wiss	2ZY12
Long Cut	11½	20 Mild	Serrated	Plastic Soft Grip	Westward	5MW41
Tinner's	7	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY10
	8¼	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV99
	9¾	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV98
	11	22 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV97
	12	20 Mild	Knife	Plastic Soft Grip	Westward	4YP52
	12½	20 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY11


No. 10Z845

HVAC Sheet Metal Tools

Malco

- For complete contents of the HVAC Starter Tool Kit, see Grainger.com®

Description	Mfr. Model	Item No.
16-Pc. HVAC Starter Tool Kit	STKMR	10Z845
Hole Cutter, Cuts 2 to 12"-dia	HC1	1ELG5
Hole Cutter, Cuts 2 to 20"-dia.	HC2	1ELH8
Replacement Bit for Nos. 1ELG5 and 1ELH8	CB	1ELG6
Hole Punch	HP18KR	5KNV3
Cable Tie Tension Tool	TY4G	1ELG7
Adjustable Tie Tensioning Tool	TY6	1ELH7
Turbo Shear	TS1	1ELH1
Turbo Shear, Heavy-Duty	TSHD	1ELH9
Setting Hammer	SH3	1ELH4
Duct Knife, Serrated	DK6S	1ELJ7
Portable Mini Brake	MB48A	2CJY3
Sheet Metal Crimper	C5R	5KNU7
Hand Notcher	N1R	5KNU8
Hand Seamer, 6" Jaw	S6R	5KNV1
Hand Seamer, 3¼" Jaw	S2R	5KNU9
Offset Hand Seamer, 3 ¼" Jaw	S3R	5KNV0

Bolt Cutters

H.K. Porter® bolt cutters have drop-forged tapered jaws with toggle joints and center cut blades. Threaded bottom straps increase blade rigidity. Adjustment screw adjusts gap after extended use. Rubber grip handles.

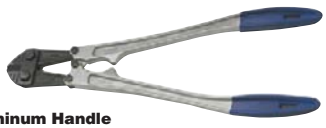
Note: Westward® replacement cutter heads available on Grainger.com®.



Fiberglass Handle
No. 2G976



Steel Handle
No. 1YNB7



Aluminum Handle
No. 22UN79

Overall Length	Soft & Med/Hard Materials Up to Brinnell 300 Rockwell C31 Diameter (in.)	(mm)	Hard Materials Up to Brinnell 455 Rockwell C48 Diameter (in.)	(mm)	Brand	Mfr. Model	Item No.
Fiberglass Handle							
18¼"	⅜"	10	¼"	6	Crescent H.K. Porter	0090FC	**2G976**
24½"	7⁄16"	11	5⁄16"	8	Crescent H.K. Porter	0190FC	**2G992**
24½"	7⁄16"	11	5⁄16"	8	Klein Tools	63124	**25D141**
30½"	½"	13	⅜"	10	Crescent H.K. Porter	0290FC	**2H007**
30½"	½"	13	⅜"	10	Klein Tools	63130	**25D142**
36½"	9⁄16"	14	7⁄16"	11	Crescent H.K. Porter	0390FC	**2H021**
Plastic Dipped Handle							
8"	¼"	—	—	—	Crescent H.K. Porter	0890MC	**31LZ43**
8"	¼"	—	—	—	Crescent H.K. Porter	0890MA	**31LZ44**
8"	¼"	—	—	—	Crescent H.K. Porter	0890SMC	**31LZ45**
Steel Handle							
8"	¼"	6	⅛"	3.6	Knipex	71 01 200 SBA	**2DYX2**
8"	¼"	6	⅛"	3.6	Knipex	71 12 200 SBA	**3JXH9**
8"	¼"	6	⅛"	3.6	Knipex	71 21 200 SBA	**3JXJ1**
8"	¼"	6	⅛"	3.6	Knipex	71 22 200 SBA	**3JXJ2**
8"	¼"	6	⅛"	3.6	Knipex	71 31 200 SBA	**2DYX3**
8"	¼"	6	⅛"	3.6	Knipex	71 41 200 SBA	**3JXJ3**
8"	⅛"	3	—	—	Westward	—	**1YNB6**
8"	¼"	—	⅛"	—	Knipex	71 01 200	**38GU34**
8"	¼"	—	⅛"	—	Knipex	71 31 200	**38GU47**
8"	¼"	—	⅛"	—	Knipex	71 41 200	**38GU48**
8"	¼"	6	⅛"	3.6	Knipex	71 02 200	**10U115**
8"	¼"	6	⅛"	3.6	Knipex	71 32 200	**10U116**
8"	5⁄32"	—	—	—	Westward	—	**10D457**
10"	3⁄16"	—	5⁄32"	—	Knipex	71 31 250 SBA	**54JD60**
14"	¼"	6	3⁄16"	5	Westward	—	**1YNB7**
14"	5⁄16"	8	3⁄16"	5	Crescent H.K. Porter	1490MC	**2H053**
15"	5⁄16"	7.9	3⁄16"	4.8	Ridgid	14213	**6PFE3**
18"	⅜"	10	¼"	6	Crescent H.K. Porter	0090MC	**2G978**
18"	5⁄16"	8	¼"	6	Westward	—	**1YNB8**
18 1⁄8"	5⁄16"	8	3⁄16"	5	Knipex	71 72 460	**10U117**
18"	⅜"	10	¼"	—	Klein Tools	63318	**2DFZ8**
18 9⁄16"	5⁄16"	—	5⁄32"	—	Crescent H.K. Porter	0090MCP	**493X34**
19"	⅜"	9.5	¼"	6.4	Ridgid	14218	**6PFE4**
24"	⅜"	9	5⁄16"	8	Westward	—	**1YNB9**
24"	7⁄16"	11	5⁄16"	7.9	Ridgid	14223	**6PFE5**
24"	⅜"	9	¼"	7	Knipex	71 72 610	**10U118**
24"	7⁄16"	11	5⁄16"	8	Klein Tools	63324	**25D137**
25"	⅜"	—	—	—	Westward	22UN92	**22UN92**
26 45⁄64"	⅜"	—	5⁄16"	—	Crescent H.K. Porter	0190MCP	**493X33**
30"	½"	13	⅜"	10	Crescent H.K. Porter	0290MC	**2H013**
30"	½"	13	⅜"	10	Westward	—	**1YNC2**
30"	7⁄16"	11	5⁄16"	8	Knipex	71 72 760	**10U119**
30"	½"	13	⅜"	—	Klein Tools	63330	**2DFZ9**
31"	½"	12.7	⅜"	9.5	Ridgid	14228	**6PFE6**
35¾"	½"	13	⅜"	9	Knipex	71 72 910	**10U120**

Overall Length	Soft & Med/Hard Materials Up to Brinnell 300 Rockwell C31 Diameter (in.)	(mm)	Hard Materials Up to Brinnell 455 Rockwell C48 Diameter (in.)	(mm)	Brand	Mfr. Model	Item No.
36"	9⁄16"	14	7⁄16"	11	Crescent H.K. Porter	0390MC	**2H023**
36"	9⁄16"	14	7⁄16"	11	Westward	—	**1YNC3**
36"	9⁄16"	14	7⁄16"	11	Klein Tools	63336	**25D138**
38"	9⁄16"	14.3	7⁄16"	11	Ridgid	14233	**6PFE7**
42"	1 1⁄16"	18	½"	13	Crescent H.K. Porter	0590MC	**2H035**
42"	1 1⁄16"	18	½"	13	Klein Tools	63342	**25D139**
Steel Handle, Concrete Mesh Cutter							
37½"	7⁄16"	7⁄16	¼"	6	Knipex	71 82 950	**3JXJ4**
Steel Handle, Recess Head							
10"	3⁄16"	—	5⁄32"	—	Knipex	71 01 250 SBA	**54JD59**
Steel Handle, w/Tether Attachment							
8"	¼"	—	⅛"	—	Knipex	71 02 200 T BKA	**54JD68**
Steel Handle, w/Tether Attachment, 20° Head							
8"	¼"	—	⅛"	—	Knipex	71 22 200 T BKA	**54JD69**
Steel Handle w/Opening Spring							
8"	¼"	—	⅛"	—	Knipex	71 32 200 T BKA	**54JD70**

L (in.)	Hard Materials Up to Brinnell 371 Rockwell C40 Diameter (in.)	(mm)	Soft & Med/Hard Materials Up to Brinnell 226 Rockwell C20 Diameter (in.)	(mm)	Brand	Item No.
Aluminum Handle						
14	3⁄16	5	¼	7	Westward	**22UN79**
18	¼	6	5⁄16	8	Westward	**22UN80**
24	5⁄16	8	⅜	10	Westward	**22UN81**

For Use With	Brand	Mfr. Model	Item No.
Replacement Cutter Heads for Steel and Fiberglass Handles			
Mfr. No. 1490MC	Crescent H.K. Porter	1413C	**2H049**
Mfr. No. 0090FC, 0090MC	Crescent H.K. Porter	0013C	**2G972**
Mfr. No. 0190FC, 0190MC	Crescent H.K. Porter	0113C	**2G986**
Mfr. No. 0290FC, 0290MC	Crescent H.K. Porter	0213C	**2H003**
Mfr. No. 0390FC, 0390MC	Crescent H.K. Porter	0313C	**2H017**
Mfr. No. 0590MC	Crescent H.K. Porter	0513C	**2H029**
Replacement Blades for Aluminum Handle			
22UN80	Westward	—	**22UN83**
22UN81	Westward	—	**22UN84**

Description	Brand	Item No.
2-Pc. Steel Handle Bolt Cutter Set		
Includes Nos. 1YNB7 and 1YNB8	Westward	**1YNC1**

Safety Strap Cutters

Cut steel straps under tension with one hand. No 3YNA6 holds banding tightly during cut to prevent springback and features ergonomic handle with compound leverage for comfort.

Strap Gauge	Strap Width	Tool Length	Brand	Mfr. Model	Item No.
Heavy-Duty					
0.047"	1¼"	10¼"	Bessey	D123S-SB	**3YNA6**
0.050"	2"	24"	Crescent H.K. Porter	2690GP	**6A219**
General-Duty					
0.035"	¾"	9"	Crescent H.K. Porter	0990T	**6A217**
0.050"	1¼"	12"	Crescent H.K. Porter	1290G	**6A218**



No. 3YNA6



No. 6A218



No. 3JXJ6



No. 6PFF5

Wire Rope Cutters

- Plastic-coated handles

High-leverage jaws require little effort for cutting. No. 3JXJ6 has induction-hardened steel blades that cut Bowden cables and soft wire rope up to ⅛" dia. No. 6PFF5 features chrome-vanadium steel blades to cut 9⁄32" conductor cable, ¼" wire rope, 5⁄32" med.-hard wire, and 7⁄64" piano wire. No. 38GU44 features heavy-duty steel blades for cutting ¼" wire rope, 9⁄32" capacity copper, and 9⁄32" communication cable.

Cutting Cap./Material	Cutting Action	Overall Length	Brand	Mfr. Model	Item No.
Wire Rope Cutters					
⅛" Cable and Soft Wire Rope	Center Cut	6"	Knipex	95 61 150 SBA	**3JXJ6**
¼" Cable/Wire Rope, 1⁄16" Spring Wire	Shear Cut	7½"	Westward	—	**1YNA8**
9⁄32"" Conductor Cable, ¼" Wire Rope, 5⁄32" Med. Hard Wire, 7⁄64" Piano Wire	Center Cut	7½"	Knipex	95 61 190 SBA	**6PFF5**
¼" Wire Rope	Center Cut	7½"	Knipex	95 62 190 T BKA	**54JD83**
⅜" Wire Rope And Stainless Steel Cable	Shear Cut	24"	Westward	—	**10D453**
Wire Cutter					
¼" Wire Rope	Shear Cut	7½"	Knipex	95 61 190	**38GU44**

File Sets



No. 1NFK6



No. 10Z761



No. 1NFK2

No. of Pieces	L	Includes	Brand	Item No.
Black Oxide Finish File Set				
American Pattern				
5	8 in	8 in Rectangular, 8 in Round, 8 in Round with Chip Breaker, 8 in Square, 8 in Half Round	Westward	**12F862**
Ergonomic-Handle Steel File Sets				
American Pattern				
3	6 in	6 in Half Round, Mill Bastard, Round Bastard, Soft Grip Handles, Vinyl Pouch	Westward	**1NFK6**
3	6 in	6 in Round, Mill, and Square, Bastard, Vinyl Pouch	Westward	**30PA54**
3	8 in	8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round Wood Rasp, With Ergo Handle	Westward	**10Z758**
4	6 in	6 in Half Round, 6 in Round, 6 in Half Round Wood Rasp, 6 in Flat Wood Rasp, With Ergo Handle	Westward	**10Z763**
4	8 in	8 in Half Round, 8 in Round, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, With Ergo Handle	Westward	**10Z759**
4	All 6 in , Double End File: 7¾ in	6 in Flat, 6 in Three Square, 6 in Round, Double End, With Ergo Handle	Westward	**10Z762**
4	All 8 in , Double End File: 7¾ in	8 in Flat, 8 in Three Square, 8 in Round, Double End, With Ergo Handle	Westward	**10Z757**
5	6 in, 8 in, 10 in	8 in and 10 in Mill, 10 in Half Round, 8 in Flat, Bastard, 6 in Slim Taper, with Ergo Handles, Vinyl Pouch	Westward	**30PA42**
5	6 in	6 in Flat, 6 in Half Round, 6 in Square, 6 in Three Square, 6 in Round, With Ergo Handle	Westward	**10Z761**
5	6 in, 8 in, 10 in	10 in Mill Bastard, Half-Round Bastard, 6 in Slim Taper, 8 in Mill Bastard TSE,8 in Flat Soft Grip Handles, Rollup Nylon Pouch	Westward	**1NFK7**
5	6 in, 8 in, 10 in	(5) Files, Ergonomic Handles and Pouch	Nicholson	**31LZ47**
5	8 in	8 in Mill Bastard, Flat Chip-Breaking, Half Round Bastard, Round Bastard, Square Bastard, Cloth Roll Pouch	Westward	**30PA62**
5	8 in	8 in Flat, 8 in Half Round, 8 in Square, 8 in Three Square, 8 in Round, With Ergo Handle	Westward	**10Z756**
6	6 in	6 in Round Wood Rasp, 6 in Half Round Wood Rasp, 6 in Flat Wood Rasp, 6 in Round, 6 in Flat, 6 in Half Round, With Ergo Handle	Westward	**10Z760**
6	8 in	8 in Round Wood Rasp, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round, 8 in Flat, 8 in Half Round, With Ergo Handle	Westward	**10Z755**
9	6 in, 10 in	6 in Slim Taper, 10 in Mill Bastard, Flat Chip-Breaking, Half Round Chip-Breaking, Mill Smooth, Round Bastard, All Purpose, Flat Bastard, Half Round Bastard, Cloth Roll Pouch	Westward	**30PA49**
9	8 in , 10 in , and 12 in	12 in Mill Bastard, 10 in Mill Bastard, Flat Bastard, Half-Round Bastard, Round Bastard,8 in Flat Bastard, Half-Round, 6 in Slim Taper, 6 in Extra Slim Taper, Soft Grip Handles, Rollup Pouch	Westward	**1NFK8**
11	6 in ,8 in ,10 in , Double End File: 7¾ in	Flats: 6, 8 and 10 in, 8 in Half Round, 8 in Square, 6 in Three Square, 6 in Round, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round Wood Rasp, Double End, With Ergo Handle	Westward	**10Z754**
High-Carbon Steel File Set				
Swiss Pattern				
12	6 ¼ in	6¼ in Barrette, Equaling, Flat, Half-Round, Joint, Knife, Marking,Crossing, Round, Slitting, Square, and Three Square Files, Pouch	Nicholson	**1F957**
Needle File Sets				
American Pattern				
6	5 5⁄16 in	5½ in Equaling, Half-Round, Flat, Round, Square, (3) Square Files, Vinyl Pouch	Westward	**39CE58**
12	5 5⁄8 in	Knife, Flat, Square, Round, Half Round, Hand, Crossing, Joint TRE (Only Edge Cut O/C and U/C), Marking (Only R/S Cutting O/C and U/C), Slitting, Barrette (F/S Cutting)	Westward	**10Z658**
12	5 19⁄32 in		Westward	**10Z659**
12	5 19⁄32 in		Westward	**10Z660**
12	7 3⁄16 in		Westward	**10Z661**
12	7 13⁄64 in		Westward	**10Z664**
12	7 13⁄64 in		Westward	**10Z662**
12	7 13⁄64 in		Westward	**10Z663**
Swiss Pattern				
12	6 ¼ in	Equaling, Barrette, Slitting, Half Round, Marking, Three Square, Round, Crossing, Flat, Knife, Square, Joint, Vinyl Pouch	Westward	**30PA65**
Paddle-Handle File Set				
American Pattern				
3	10 in	10 in Flat Chip-Breaking, 10 in Mill, and 10 in Flat Bastard with Paddle Handles, Cloth Roll Pouch	Westward	**30PA59**
Steel File Sets				
American Pattern				
3	6 in	6 in Mill and Round Bastard, 6 in Slim Taper, Vinyl Pouch	Westward	**30PA45**
5	6 in, 8 in, 10 in	10 in Half-Round Bastard, 8 & 10 in Mill Bastard TSE, 8 in Mill Smooth TSE, 6 in Slim Taper, Vinyl Pouch	Westward	**1NFK4**
6	4 in	4 in Warding Bastard, Half-Round Bastard, Round Bastard, Hand Bastard,Square Bastard, Slim Taper, Wooden Handles, Vinyl Pouch	Westward	**1NFK5**
8	10 in	10 in Flat Bastard, Flat Smooth, Square Smooth Bastard, Half-Round Bastard,Round Bastard, Mill Bastard TSE, 7 in Slim Taper, File Cleaner, Rollup Pouch	Westward	**1NFK2**
9	10 in	10 in Flat Bastard, 10 in Flat Smooth, 10 in Mill Bastard, 10 in Half-Round Bastard, 10 in Round Bastard, 8 in Flat Smooth, 8 in Half-Round Bastard, 8 in 4-In-Hand, 6 in Slim Taper, Rollup Pouch	Westward	**1NFK1**

American Pattern Files



Cabinet Rasp File



Cantsaw File



Farmers File



Flat File

L	Cut Type	Teeth per Inch	Item No.
Cabinet Rasp			
8 in	Bastard	6.5	**10Z669**
8 in	Bastard	7.5	**10Z718**
8 in	Second	9.5	**10Z721**
8 in	Smooth	12.75	**10Z724**
10 in	Bastard	6.5	**10Z670**
10 in	Bastard	5.5	**10Z719**
10 in	Second	7.5	**10Z722**
10 in	Smooth	9.5	**10Z725**
12 in	Bastard	5.5	**10Z671**
12 in	Bastard	5.5	**10Z720**
12 in	Second	6.5	**10Z723**
12 in	Smooth	9.5	**10Z726**
14 in	Standard	Rasp 6.5, File 11	**10Z667**
Cantsaw Files			
6 in	—	50/51	**10Z677**
8 in	—	44/45	**10Z678**
10 in	—	39/40	**10Z679**
Crosscut Files			
8 in	—	45/46	**10Z680**
10 in	—	40/41	**10Z681**
Farmers Files			
8 in	Double/Single	Double Cut 22/23, Single Cut 32/33	**10Z697**
10 in	Double/Single	Double Cut 19/20, Single Cut 30/31	**10Z698**
Flat Files			
6 in	Flat Bastard	30	**1NFN9**
6 in	Flat Smooth	52	**1NFP5**
6 in	Bastard	31	**30PA51**
6 in	Smooth	53	**30PA60**
8 in	Flat Bastard	24	**1NFP1**
8 in	Bastard	24	**1NFV8**
8 in	Flat Second	34	**1NFP4**
8 in	Flat Smooth	45	**1NFP6**
8 in	Smooth	44/48	**26KR03**
8 in	Bastard	25	**30PA52**
8 in	Smooth	47	**30PA53**



Flexible Milled Tooth File



Half Round File

L	Cut Type	Teeth per Inch	Item No.
8 in	Chip-Breaking	25	**30PA55**
10 in	Flat Bastard	21	**1NFP2**
10 in	Bastard	21	**1NFV9**
10 in	Flat Smooth	38	**1NFP7**
10 in	Chip-Breaking	22	**30PA47**
10 in	Bastard	23	**30PA56**
10 in	Smooth	37	**30PA57**
12 in	Flat Bastard	17 to 19	**1NFP3**
12 in	Flat Smooth	36	**1NFP8**
12 in	Bastard	18	**30PA50**
14 in	Bastard	17	**30PA58**
Flexible Milled Tooth Files			
12 in	Standard	10	**12F864**
14 in	Medium	8	**10Z603**
14 in	Fine	12	**10Z604**
Half Round Files			
4 in	Bastard	37/45	**26KP94**
6 in	Bastard	29	**1NFP9**
6 in	Bastard	29	**1NFW1**
6 in	Smooth	50	**1NFR5**
8 in	Bastard	24	**1NFR1**
8 in	Bastard	24	**1NFW2**
8 in	Second	33	**1NFR4**
8 in	Smooth	44	**1NFR6**
8 in	Bastard	15⁄16	**10Z613**
8 in	Standard	Rasp 12.5, File 19.5	**10Z674**
8 in	SPL	25/26	**10Z690**
10 in	Bastard	21	**1NFR2**
10 in	Bastard	21	**1NFW3**
10 in	Smooth	40	**1NFR7**
10 in	Bastard	15⁄16	**10Z614**
10 in	Standard	Rasp 12.5, File 18	**10Z675**
10 in	SPL	22/24	**10Z691**
12 in	Bastard	17	**1NFR3**
12 in	Bastard	14/15	**10Z615**
12 in	SPL	19/20	**10Z692**

CONTINUED

CONTINUED

American Pattern Files

WESTWARD®


Half Round File
Black Oxide Finish


Knife File


Long Angle Lathe File


Mill Blunt File
with Ergo Handle


Mill File


Pillar File


Pipe Liner File


Rectangular File


Rectangular File
Black Oxide Finish

L	Cut Type	Teeth per Inch	Item No.
13 ¾ in	Bastard	17	39CE61
14 in	Bastard	17	30PA61
Half Round Files, Black Oxide Finish			
6 in	Double	31/32	12F844
6 in	Double	50/54	12F849
8 in	Double	25/26	12F845
8 in	Double	44/47	12F850
10 in	Double	22/24	12F846
10 in	Double	39/42	12F851
12 in	Double	19/20	12F847
14 in	Double	17/18	12F848
Knife Files			
4 in	Bastard	49/50	12F809
4 in	Second	60/62	12F814
4 in	Smooth	82/84	12F819
6 in	Bastard	41/43	12F810
6 in	Second	53/54	12F815
6 in	Smooth	66/68	12F820
6 in	Double	66/68	12F860
8 in	Bastard	34/36	12F811
8 in	Second	44/45	12F816
8 in	Smooth	56/58	12F821
8 in	Double	56/58	12F861
10 in	Bastard	29/31	12F812
10 in	Second	37/38	12F817
10 in	Smooth	43/44	12F822
12 in	Bastard	23/24	12F813
12 in	Second	26/28	12F818
12 in	Smooth	38/40	12F823
Long Angle Lathe Files			
10 in	Bastard	25/26	10Z693
12 in	Bastard	22/23	10Z694
12 in	Bastard	20	1NFT7
14 in	Bastard	20/21	10Z695
Mill Blunt Files			
8 in	Bastard	43/46	1NFV5
10 in	Bastard	38/41	1NFV6
12 in	Bastard	34/37	1NFV7
Mill Files			
4 in	Bastard	57/58	10Z699
4 in	Second	67/68	10Z706
4 in	Smooth	71/72	10Z712
6 in	Bastard	48/52	26KR01
6 in	Bastard	48 to 52	1NFK9
6 in	Smooth	68/74	1NFN5
6 in	Bastard	48/49	10Z701
6 in	Second	59/60	10Z707
6 in	Smooth	68	10Z713
8 in	Bastard	43 to 46	1NFN1
8 in	Second	50/53	1NFN4
8 in	Smooth	56/62	1NFN6
8 in	Bastard	44/45	10Z702
8 in	Second	51/52	10Z708
8 in	Smooth	58/59	10Z714
10 in	Bastard	33	1NFN2
10 in	Smooth	51/56	1NFN7
10 in	Bastard	38/39	10Z703
10 in	Second	44/45	10Z709
10 in	Smooth	51/52	10Z715
12 in	Bastard	30	1NFN3
12 in	Smooth	45/50	1NFN8
12 in	Bastard	34/35	10Z704
12 in	Second	39/40	10Z710
12 in	Smooth	45/46	10Z716
14 in	Bastard	31/32	10Z705
14 in	Second	35/36	10Z711
14 in	Smooth	40/41	10Z717
Pillar Files			
6 in	Bastard/Smooth	34/35	10Z739
6 in	Second	44/45	10Z742
6 in	Smooth	56/57	10Z744
8 in	Bastard/Smooth	28/29	10Z740
8 in	Second	38/39	10Z743
8 in	Smooth	47/48	10Z745
10 in	Bastard/Smooth	23/24	10Z741
Pipe Liner Files			
14 in	SPL	17/18	10Z696
Rectangular Files			
3 ¾ in	Bastard	40	39CE65
4 in	Bastard	40/48	26KP96
8 in	SPL	40	10Z606
8 in	SPL	15/16	10Z610
8 in	SPL	25/26	10Z683
10 in	SPL	35/36	10Z607
10 in	SPL	15/16	10Z611
12 in	SPL	30/31	10Z608
12 in	SPL	14/15	10Z612
12 in	SPL	16/17	10Z686
14 in	SPL	27/28	10Z609
14 in	SPL	19/20	10Z687
14 in	SPL	17/18	10Z689
Rectangular Files, Black Oxide Finish			
6 in	Double	40/42	12F824
6 in	Double	52/54	12F829
6 in	Single	48/49	12F833
6 in	Single	59/60	12F838
6 in	Single	68	12F841
8 in	Double	31/32	12F825
8 in	Double	45/47	12F830
8 in	Single	44/45	12F834
8 in	Single	51/52	12F839
10 in	Double	24/25	12F826
10 in	Double	38/40	12F831


Round File w/
Ergo Handle


Round File
Black Oxide Finish


Spot Welder Tip File


Square File


Taper File


Three Square File


Warding File


Wood Rasp File

L	Cut Type	Teeth per Inch	Item No.
10 in	Single	38/39	12F835
10 in	Single	44/45	12F840
12 in	Double	22/23	12F827
12 in	Double	36/37	12F832
12 in	Single	34/35	12F836
14 in	Double	19/19	12F828
14 in	Bastard/Single	31/32	12F837
Round Files			
4 in	Bastard	37/44	26KP95
6 in	Bastard	28	1NFR8
6 in	Smooth	47	1NFT4
6 in	Bastard	26/31	26KP99
8 in	Bastard	23	1NFR9
8 in	Bastard	23	1NFW4
8 in	Second	31	1NFT3
8 in	Smooth	40	1NFT5
10 in	Bastard	20	1NFT1
10 in	Bastard	8.5	10Z676
10 in	Bastard	19/21	26KR04
12 in	Bastard	18	1NFT2
Round Files, Black Oxide Finish			
6 in	Double	28/29	12F852
6 in	Double	47/48	12F856
8 in	Double	23/25	12F853
8 in	Double	40/42	12F857
10 in	Double	20/21	12F854
12 in	Double	18/19	12F855
Spot Welder Tip Files			
10 in	Bastard	20	30PA64
Square Files			
4 in	Bastard	43/44	12F790
4 in	Second	58/60	12F796
4 in	Smooth	76/77	12F803
4 in	Bastard	43/48	26KP97
6 in	Bastard	33/35	12F791
6 in	Second	43/44	12F797
6 in	Smooth	57/58	12F804
8 in	Bastard	26/27	12F792
8 in	Second	37/38	12F798
8 in	Smooth	46/47	12F805
10 in	Bastard/Double	22/25	1NFT6
10 in	Bastard	24/25	12F793
10 in	Second	31/33	12F799
10 in	Smooth	41/43	12F806
12 in	Bastard	19/20	12F794
12 in	Second	29/30	12F801
12 in	Smooth	38/39	12F807
13 ¾ in	Bastard	17	39CE64
14 in	Bastard	17/18	12F795
Taper Files			
4 in	Slim	58/63	26KP98
6 in	—	51	1NFT9
6 in	—	55	1NFV1
6 in	Slim	50/55	26KR02
6 in	Extra Slim	55/60	26KR06
6 in	Double Extra Slim	59	30PA48
7 in	Slim	45/50	26KP92
7 in	Double Extra Slim	56	30PA63
3- Square Files			
4 in	Bastard/Double	49/50	12F775
4 in	Single	58/59	12F780
4 in	Single	63/64	12F785
5 in	Single	46/47	12F776
5 in	Single	54/55	12F781
5 in	Single	60/61	12F786
6 in	Bastard/Double	33/35	12F766
6 in	Bastard/Double	47/48	12F769
6 in	Bastard/Double	57/58	12F772
6 in	Single	41/42	12F777
6 in	Single	51/52	12F782
6 in	Single	55/56	12F787
6 in	Double	33/35	12F858
7 in	Single	39/40	12F778
7 in	Single	45/46	12F783
7 in	Single	51/52	12F788
8 in	Bastard/Double	25/27	12F767
8 in	Bastard/Double	37/39	12F770
8 in	Bastard/Double	46/47	12F773
8 in	Single	34/34.5	12F779
8 in	Single	42/43	12F784
8 in	Single	49/50	12F789
8 in	Double	25/27	12F859
10 in	Bastard/Double	23/24	12F768
10 in	Second/Double	33/35	12F771
10 in	Bastard/Double	41/42	12F774
Warding Files			
4 in	Bastard/Smooth	50/52	10Z727
4 in	Second	68/70	10Z731
4 in	Smooth	84/86	10Z735
4 in	Bastard	50/55	26KP93
6 in	Bastard	32	1NFT8
6 in	Bastard/Smooth	41/43	10Z728
6 in	Second	55/57	10Z732
6 in	Smooth	68/70	10Z736
8 in	Bastard/Smooth	34/36	10Z729
8 in	Second	46/48	10Z733
8 in	Smooth	56/58	10Z737
10 in	Bastard/Smooth	28/31	10Z730
10 in	Second	37/39	10Z734
10 in	Smooth	45/48	10Z738
Wood Rasp Files			
8 in	Bastard	—	1NFV2







Diamond-Coated
Habilis File
No. 31LX73

Specialty Files

Diamond-coated files are used for cutting or grinding hard, brittle, and abrasive materials. Diamond enables faster operation, extends tool life, and allows very accurate tolerances of shape and size.

Note: Diamond files are not suitable for grinding high-carbon steel.

Description	L	Brand	Mfr. Model	Item No.
Chainsaw Files - American Pattern				
1/8"-dia.	6"	Westward	—	**12F759**
5/32"-dia.	6"	Westward	—	**12F760**
3/16"-dia.	8"	Westward	—	**12F761**
7/32"-dia.	8"	Westward	—	**12F762**
1/4"-dia.	8"	Westward	—	**12F763**
5/16"-dia.	8"	Westward	—	**12F764**
3/8"-dia.	8"	Westward	—	**12F765**
Handy File - American Pattern				
Rectangular With Round On Top	7 3/4"	Westward	—	**1NFV3**
Thread Restoring Files				
Regular Bolt	8 1/2"	Crescent Nicholson	T33001	**3MD29**
Extra Fine/Extra Coarse Bolt	8 1/2"	Crescent Nicholson	T33007	**3MD30**
Metric Bolt	8 1/2"	Crescent Nicholson	T33016	**3MD32**
Thread Restoring File Set, 4 Pc. Roll-Up Pouch Including Type-1 - Regular Bolt 11, 12, 13, 14, 16, 18, 20, 24 TPI; Type 2 - Fine/Ex. Course Bolt 9, 10, 12, 16, 20, 27, 28, 32 TPI; Type 7 - Regular Pipe 8, 10, 11 1/2, 14, 16, 18, 24, 27 TPI; Type 8 - Metric Bolt, #7 File for Regular Pipe Thread 80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00mm	8 3/8"	Crescent Nicholson	T33024	**3MD33**
Diamond-Coated Files				
Escapement Files - Swiss Pattern				
Barrette, Diamond Grit Cut	5 1/2"	Strauss	MI8610D126	**31LX38**
Barrette, Smooth Cut	5 1/2"	Strauss	MI8610D91	**31LX40**
Barrette, Coarse Cut	5 1/2"	Strauss	MI8610D181	**31LX39**
Crossing, Diamond Grit Cut	5 1/2"	Strauss	MI8609D126	**31LX41**
Crossing, Smooth Cut	5 1/2"	Strauss	MI8609D91	**31LX42**
Crossing, Coarse Cut	5 1/2"	Strauss	MI8609D181	**31LX43**
Equalling, Diamond Grit Cut	5 1/2"	Strauss	MI8617D126	**31LX45**
Equalling, Smooth Cut	5 1/2"	Strauss	MI8617D91	**31LX46**
Equalling, Coarse Cut	5 1/2"	Strauss	MI8617D181	**31LX44**
Half Round, Diamond Grit Cut	5 1/2"	Strauss	MI8608D126	**31LX58**
Half Round, Smooth Cut	5 1/2"	Strauss	MI8608D91	**31LX47**
Half Round, Coarse Cut	5 1/2"	Strauss	MI8608D181	**31LX48**
Round, Diamond Grit Cut	5 1/2"	Strauss	MI8621D126	**31LX49**
Round, Smooth Cut	5 1/2"	Strauss	MI8621D91	**31LX50**
Round, Coarse Cut	5 1/2"	Strauss	MI8621D181	**31LX51**
Square, Diamond Grit Cut	5 1/2"	Strauss	MI8619D126	**31LX52**
Square, Smooth Cut	5 1/2"	Strauss	MI8619D91	**31LX53**
Square, Coarse Cut	5 1/2"	Strauss	MI8619D181	**31LX54**
Three Square, Diamond Grit Cut	5 1/2"	Strauss	MI8614D126	**31LX55**
Three Square, Smooth Cut	5 1/2"	Strauss	MI8614D91	**31LX56**
Three Square, Coarse Cut	5 1/2"	Strauss	MI8614D181	**31LX57**
Habilis Files - Swiss Pattern				
Equalling, Diamond Grit Cut	8 21/32"	Strauss	HB2601D126	**31LX59**
Equalling, Smooth Cut	8 21/32"	Strauss	HB2601D91	**31LX60**
Equalling, Coarse Cut	8 21/32"	Strauss	HB2601D181	**31LX61**
Half Round, Diamond Grit Cut	8 21/32"	Strauss	HB2602D126	**31LX62**
Half Round, Smooth Cut	8 21/32"	Strauss	HB2602D91	**31LX63**
Half Round, Coarse Cut	8 21/32"	Strauss	HB2602D181	**31LX64**
Round, Diamond Grit Cut	8 21/32"	Strauss	HB2610D126	**31LX65**
Round, Smooth Cut	8 21/32"	Strauss	HB2610D91	**31LX66**
Round, Coarse Cut	8 21/32"	Strauss	HB2610D181	**31LX67**
Square, Diamond Grit Cut	8 21/32"	Strauss	HB2608D126	**31LX68**
Square, Smooth Cut	8 21/32"	Strauss	HB2608D91	**31LX69**
Square, Coarse Cut	8 21/32"	Strauss	HB2608D181	**31LX70**
Three Square, Diamond Grit Cut	8 21/32"	Strauss	HB2607D126	**31LX71**
Three Square, Smooth Cut	8 21/32"	Strauss	HB2607D91	**31LX72**
Three Square, Coarse Cut	8 21/32"	Strauss	HB2607D181	**31LX73**
Needle Files - Swiss Pattern				
Barrette, Smooth Cut	5 1/2"	Strauss	NF2102TD91	**31LX96**
Barrette, Coarse Cut	5 1/2"	Strauss	NF2102TD181	**31LX97**
Crossing, Diamond Grit Cut	5 1/2"	Strauss	NF2192D126	**31LY02**
Crossing, Smooth Cut	5 1/2"	Strauss	NF2192D91	**31LY03**
Crossing, Coarse Cut	5 1/2"	Strauss	NF2192D181	**31LY04**
Equalling, Smooth Cut	5 1/2"	Strauss	NF2112D126	**31LY05**
Equalling, Smooth Cut	5 1/2"	Strauss	NF2112D91	**31LY06**
Equalling, Coarse Cut	5 1/2"	Strauss	NF2112D181	**31LY07**
Half Round, Diamond Grit Cut	5 1/2"	Strauss	NF2152D126	**31LY11**
Half Round, Smooth Cut	5 1/2"	Strauss	NF2152D91	**31LY12**
Half Round, Coarse Cut	5 1/2"	Strauss	NF2152D181	**31LY13**
Knife, Diamond Grit Cut	5 1/2"	Strauss	NF2172D126	**31LY14**
Knife, Smooth Cut	5 1/2"	Strauss	NF2172D91	**31LY15**
Knife, Coarse Cut	5 1/2"	Strauss	NF2172D181	**31LY16**
Round, Smooth Cut	5 1/2"	Strauss	NF2162D126	**31LY17**
Round, Smooth Cut	5 1/2"	Strauss	NF2162D91	**31LY18**
Round, Coarse Cut	5 1/2"	Strauss	NF2162D181	**31LY19**
Slitting, Diamond Grit Cut	5 1/2"	Strauss	NF2182D126	**31LY20**
Slitting, Smooth Cut	5 1/2"	Strauss	NF2182D91	**31LY21**
Slitting, Coarse Cut	5 1/2"	Strauss	NF2182D181	**31LY22**
Square, Diamond Grit Cut	5 1/2"	Strauss	NF2142D126	**31LY23**
Square, Smooth Cut	5 1/2"	Strauss	NF2142D91	**31LY24**
Square, Coarse Cut	5 1/2"	Strauss	NF2142D181	**31LY25**
Three Square, Diamond Grit Cut	5 1/2"	Strauss	NF2132D126	**31LY26**
Three Square, Smooth Cut	5 1/2"	Strauss	NF2132D91	**31LY27**
Three Square, Coarse Cut	5 1/2"	Strauss	NF2132D181	**31LY28**
Warding, Diamond Grit Cut	5 1/2"	Strauss	NF2122D126	**31LY29**
Warding, Smooth Cut	5 1/2"	Strauss	NF2122D91	**31LY30**
Warding, Coarse Cut	5 1/2"	Strauss	NF2122D181	**31LY31**

No. of Pieces	Cut Type	Shape	Brand	Mfr. Model	Item No.
Habilis File Sets					
5	Standard	Equalling, Three Square, Square, Half Round, Round	Strauss	HB2627D126	**31LY32**
5	Smooth		Strauss	HB2627D91	**31LY33**
5	Coarse		Strauss	HB2627D181	**31LY34**
Needle File Sets					
5	Standard	Equalling, Three Square, Square, Half Round, Round	Strauss	NF4205D126	**31LY35**
5	Smooth		Strauss	NF4205D91	**31LY36**
5	Coarse		Strauss	NF4205D181	**31LY37**
6	Standard	Equalling, Three Square, Square, Half Round, Round, Crossing	Strauss	NF4206D126	**31LY38**
6	Smooth		Strauss	NF4206D91	**31LY39**
6	Coarse		Strauss	NF4206D181	**31LY40**
Escapement File Sets					
5	Standard	Half Round, Three Square, Equalling, Square, Round	Strauss	MI8632D126	**31LY42**
5	Smooth		Strauss	MI8632D91	**31LY43**
5	Coarse		Strauss	MI8632D181	**31LY44**





File Handles and Cleaners

Description	Brand	Item No.
Aluminum File Holder		
For Use with Milled Tooth Files	Westward	**10Z605**
Wood File Handles - Nickel-Plated		
For Use With 3 3/4": 4" Tapered; 4" to 7" Slim; 4" to 8" X Slim; 5" to 8" XX Slim; 4" Round; 4" to 6" Square; 8" Chainsaw	Crescent Nicholson	**1G488**
For Use With 4 1/8" - 9 to 10" Tapered; 8 to 10" Hand, Knife, Cantsaw; 8" Mill, Flat, Half-Round, Crosscut; 10" Warding; 12" Round, Square	Crescent Nicholson	**1G482**
For Use With 4 1/4" - 10 to 12" Mill, Flat; 10" Half Round, Crosscut; 12" Hand, Knife; 14" Round, Square	Crescent Nicholson	**1G480**
Plastic File Handles		
For Use With #2-5" Round, Square, Triangular	Crescent Nicholson	**2H059**
For Use With #3-4" Mill, Flat, Hand, Half-Round, Knife, Warding; 6" Round, Square, Triangular to 8" Warding; 8" Triangular; 8 to 10" Round, Square	Crescent Nicholson	**2H061**
For Use With #4-6" Mill, Flat, Hand, Half-Round, Knife, Cantsaw; 6 to 8" Warding; 8" Triangular; 8 to 10" Round, Square	Crescent Nicholson	**2H063**
For Use With #5-8" to 10" Mill, Flat, Knife; 8" Hand, Half-Round, Cantsaw; 10" Warding, Triangular; 12" Round, Square	Crescent Nicholson	**2H065**
For Use With #6-12" Mill, Flat, Knife, Triangular; 10" Hand, Half-Round, Cantsaw; 14" Square	Crescent Nicholson	**2H067**
For Use With #7-14" Mill, Flat, Triangular; 12" Hand, Half-Round, 14 to 16" Round	Crescent Nicholson	**2H069**
Ergonomic, Soft Rubber Grip Handle		
4 3/16" File Handle w/(5) 1 1/8" Rubber Inserts	Westward	**1NFW5**
File Cleaners		
10" File Card	Crescent Nicholson	**2A509**
10" File Card & Brush	Crescent Nicholson	**1G492**
File Cleaner w/Handle	Westward	**26KR07**



No. 2AJK7



No. 2AJL3



No. 2AJL9



No. 22N850



No. 2AJB2



No. 3R110

Punch and Chisel Sets

- See Grainger.com® for specific sizes in each set

COLD CHISEL SETS

Remove or cut metal softer than the cutting edge itself.

NAIL SETS

Square head prevents rolling. Fully hardened precision-milled steel. No. 3ML05 has color-coded tools with shock-absorbing cushioned ribbed grip.

PUNCH SETS

Drift—Use for aligning holes, usually in metal. Also called aligning punches.

Pin—Drive pins, bolts, and rivets out of holes. Chamfer on struck-end helps reduce mushrooming and chipping. Identification panel marked with punch size. Solid punch for hole alignment.

Hollow—For punching holes in leather, rubber, canvas, cardboard, plastic, gasket material, and sheet metal.

Arch—Inside taper for clearance.

Gasket—Feature a spring-loaded, self-centering steel driving mandrel. Include molded case.

Transfer—Undersized by 0.0025". A matched set of precision-transfer punches allows the transferring of threaded, drilled, or reamed holes.

PUNCH AND CHISEL SETS

Packaged in a reusable vinyl pouch.

No. of Pieces	Description	Range of Sizes	Brand	Item No.
Chisel Sets				
3	Wood Chisel Set	½ - 1"	STANLEY	6AUF9
3	Wood Chisel Set		Westward	4YR15
4	Handguarded Chisel Set	¾" - 3½"	Westward	2AJK7
5	Cold Chisel Set w/Tool Roll Pouch	5⁄16 - 5⁄8"	Proto	3R152
5	Super-Duty Cold Chisel Set w/ Tool Roll Pouch	3⁄8 - 7⁄8"	Proto	1Q947
5	Super Duty Cold Chisel Set w/Pouch	3⁄8 - 7⁄8"	Westward	2AJL5
5	S2 Cold Chisel Set w/Tool Roll Pouch	5⁄16 - 5⁄8"	Proto	6DJZ1
7	Cold Chisel Set w/Tool Roll Pouch	5⁄16 - 7⁄8"	Proto	3R151
7	Cold Chisel Set	¼ - 7⁄8"	Westward	2AJA6
7	S2 Cold Chisel Set w/Tool Roll Pouch	5⁄16 - 7⁄8"	Proto	6DJZ0
9	Wood Chisel Set	¼ - 2"	Westward	4YR17
Nail Sets				
3	Square Head Nail Set	1⁄32 - 3⁄32"	STANLEY	5C574
3	Cushion Grip Nail Set	1⁄32 - 3⁄32"	STANLEY	3ML05
Punch Sets				
3	Brass Drift Punch Set	3⁄8 - ¾"	Westward	2AJL3
3	Brass Drift Punch Set w/Tool Roll Pouch	3⁄8 - ¾"	Proto	6DJR6
3	Brass Demolition Punch Set w/Tool Roll Pouch	3⁄8 - ¾"	Proto	6DJT0
5	Drift Punch Set	1⁄8 - 5⁄16"	Westward	2AJL6
5	Drift Punch Set w/Tool Roll Pouch	¼ - ½"	Proto	3R161
5	S2 Drift Punch Set w/Tool Roll Pouch	1⁄8 - 5⁄16"	Proto	6DJZ3
5	Long Drive Pin Punch Set (1-pc. Design) w/Tool Roll Pouch	5⁄32 - 5⁄16"	Proto	1Q736

No. of Pieces	Description	Range of Sizes	Brand	Item No.
5	Long Drive Pin Punch Set	1⁄8 - 3⁄8"	Westward	2AJB1
5	S2 Drive Pin Punch Set w/Tool Roll Pouch	5⁄32 - 5⁄16"	Proto	6DJZ4
6	Pin Punch Set	3⁄32 - 5⁄16"	Westward	2AJA7
6	Pin Punch Set	1⁄8 - 5⁄16"	Westward	2AJA9
6	Hollow Punch Set	3⁄16 - ½"	Westward	2AJK8
7	Drift Punch Set w/Tool Roll Pouch	3⁄32 - 3⁄8"	Proto	3R160
7	S2 Drift Punch Set w/Tool Roll Pouch	3⁄32 - 3⁄8"	Proto	6DJZ2
7	Pin Punch Set	1⁄16 - 5⁄16"	Westward	2AJA8
7	Super Duty Pin Punch Set	1⁄16 - 5⁄16"	Westward	2AJL4
7	S2 Pin Punch Set w/Tool Roll Pouch	1⁄16 - ¼"	Proto	3R111
7	Super-Duty S2 Pin Punch Set w/Tool Roll Pouch	1⁄16 - ¼"	Proto	1Q737
7	Roll Pin Punch Set (1-pc. Design) w/Tool Roll Pouch	1⁄16 - ¼"	Proto	1Q754
7	Roll Pin Punch Set	1⁄16 - 5⁄16"	Westward	2AJL9
7	S2 Roll Pin Punch Set w/Tool Roll Pouch	1⁄16 - ¼"	Proto	6DJZ6
7	Arch Punch Set	¼ - 1"	Westward	2AJK9
10	Gasket Punch Set	¼ - 1"	Westward	2AJL1
12	Roll Pin Punch Set	1⁄16 - ½"	Westward	49A456
17	Hollow Punch Set	1⁄8 - 1 3⁄16"	Westward	49A458
Transfer Sets				
25	Transfer Punch Set	1 - 13mm	Westward	22N847
26	Transfer Punch Set	A- Z	Westward	22N848
28	Transfer Punch Set	3⁄32 - 17⁄32"	Westward	22N849
33	Transfer Punch Set	½ - 1"	Westward	22N850
60	Transfer Punch Set	#1 - #60	Westward	22N851

No. of Pieces	Sizes Included	Brand	Item No.
Punch and Chisel Sets			
3	½, ¾, and 1"	STANLEY	5ME52
5	S2 Center Punch-3/8", S2 Drive-Pin Punch-1/8, 3⁄16", S2 Starting Punch-1/8", S2 Cold Chisel-5/8"	Proto	6DJY9
5	Center Punch-3/8", Drive-Pin Punch-1/8, 3⁄16", Starting Punch-1/8", Cold Chisel-5/8"	Proto	3R077
6	¼, ½, ¾, 1, 1¼, and 1½"	STANLEY	5ME53
7	Flat Chisel: ½, 5⁄8, ¾"; Starting Punch: 3⁄16, ¼"; Pin Punch: 3⁄16"; Center Punch: 3⁄8"	Westward	2AJB3
12	Flat Chisel: 3⁄8, ½, 5⁄8"; Starting Punch: 1⁄8, 3⁄16, ¼"; Pin Punch: 1⁄8, 5⁄32, 3⁄16";Center Punch: 3⁄8,1/2"; Prick Punch: 3⁄16"	Westward	2AJB4
12	Center Punch-3/8", Drive Pin Punch-3/32, 1⁄8, 3⁄16", Starting Punch-1/16, 1⁄8, 3⁄16", Cape Chisel-5/16", Diamond Point Chisel-3/16", Cold Chisel-5/16, 7⁄16, ½"	Proto	3R074
12	S2 Center Punch-3/8", S2 Drive Pin Punch-3/32, 1⁄8, 3⁄16", S2 Starting Punch-1/16, 1⁄8, 3⁄16", S2 Cape Chisel-7/32", S2 Diamond Point Chisel-3/16", S2 Cold Chisel-5/16, 7⁄16, ½"	Proto	6DJY8
14	Flat Chisel: ½, 5⁄8, ¾, 7⁄8, 1"; Starting Punch: 1⁄8, 3⁄16, ¼, 3⁄8"; Pin Punch: 3⁄32, 1⁄8, 3⁄16, ¼"; Center Punch: 3⁄8 x ½"	Westward	2AJB2
18	Drive Pin Punch: 1⁄8, 5⁄32, 3⁄16, ¼"; Starting Punch: 3⁄32, 1⁄8, 3⁄16, ¼"; Cold Chisel: 3⁄8, ½, 5⁄8, ¾, 7⁄8"; Drift Punch: 1⁄8, 3⁄16, ¼, 5⁄16"; Center Punch: 3⁄8"	Westward	2AJL7
26	Drive Pin Punch: 1⁄16, 1⁄8, 5⁄32, 3⁄16, 7⁄32, ¼"; Starting Punch: 3⁄32, 1⁄8, 3⁄16, 7⁄32, ¼; Cold Chisel: ¼, 5⁄16, 3⁄8, ½, 5⁄8, ¾, 13⁄16, 7⁄8, 1"; Drift Punch: 1⁄8, 3⁄16, ¼"; Center Punch: 3⁄8, ½"; Prick Punch: 3⁄16"	Westward	2AJL8
26	Drive Pin Punch-3/32, 1⁄8, 5⁄32, 3⁄16, 7⁄32, ¼", Starting Punch-3/32, 1⁄8, 3⁄16, 7⁄32, ¼", Cold Chisel-1/4, 5⁄16, 3⁄8, ½, 5⁄8, ¾, 7⁄8, 1, 1 3⁄16", Drift Punch-1/8, 3⁄16, ¼", Center Punch-3/8, ½", Prick Punch-5/16"	Proto	3R110
26	S2 Drive Pin Punch-3/32, 1⁄8, 5⁄32, 3⁄16, 7⁄32, ¼", S2 Starting Punch-3/32, 1⁄8, 3⁄16, 7⁄32, ¼", S2 Cold Chisel-1/4, 5⁄16, 3⁄8, ½, 5⁄8, ¾, 7⁄8, 1, 1 3⁄16", S2 Drift Punch-1/8, 3⁄16, ¼", S2 Center Punch-3/8, ½", S2 Prick Punch-5/16"	Proto	6DJZ7



Drive Pin, 1-Pc.
No. 2AJD5



Roll Pin
No. 2AJF6

PROTO® WESTWARD® STANLEY Blackhawk by PROTO

Punches

Tip Size (in.)	Hex (in.)	L (in.)	Brand	Item No.
Aligning Punches				
3/16	19/32	16	Proto	6DJV6
3/8	—	10	Proto	6XVR8
7/16	—	14	Proto	6XVR9
Center Punches				
1/16	3/16	4 1/4	Westward	2AJC6
3/32	1/4	4 1/4	Westward	2AJC7
5/32	5/16	4 5/8	Westward	2AJC8
3/16	3/8	4 7/8	Westward	2AJC9
1/4	—	4"	STANLEY	6AUD6
1/4"	—	4 3/4"	Proto	6DJV8
1/4	7/16	5 1/4	Westward	2AJD1
5/16	—	4 1/2"	STANLEY	6AUD7
5/16	—	4 5/8"	Proto	6DJW0
3/8"	—	4 7/8"	Proto	6DJV9
3/8	1/2	6	Westward	2AJD2
3/8	5/8	6 1/4	Westward	2AJD3
7/16"	—	5 1/4"	Proto	6DJW2
1/2"	—	5 5/8"	Proto	6DJV7
1/2	5/8	7	Westward	2AJD4
9/16"	—	5 1/4"	Proto	6DJW1
Drift Punches				
1/8	5/16	10	Westward	2AJC1
1/8	5/16	10	Proto	3R154
3/16	3/8	10	Westward	2AJC2
3/16	3/8	10	Proto	3R155
3/16	3/8	10	Proto	6DJY4
1/4	1/2	10	Westward	2AJC3
1/4	1/2	10	Proto	3R157
5/16	19/32	10	Proto	3R158
5/16	5/8	10	Westward	2AJC4
3/8	23/32	10	Proto	3R159
3/8	3/4	10	Westward	2AJC5
3/8	3/4	10	Proto	6DJY3
1/2	1/2	8	Proto	1Q802 *
3/4	—	8	Proto	6XVT0
3/4	—	12	Proto	6XVR7
Drive Pin Punches - 1-piece				
1/16	1/4	4 1/8	Proto	1Q742
1/16	1/4	4 1/2	Westward	2AJD5
3/32	1/4	4 1/2	Proto	1Q745
3/32	5/16	4 1/2	Westward	2AJD6
1/8	5/16	4 3/4	Westward	2AJD7
1/8	5/16	4 3/4	Proto	1Q740
5/32	5/16	5	Proto	1Q748
5/32	5/16	5	Westward	2AJD8
3/16	3/8	5 1/4	Proto	1Q743
3/16	3/8	5 1/4	Westward	2AJD9
7/32	7/16	5 1/2	Proto	1Q751
7/32	7/16	5 1/2	Westward	2AJE1
1/4	7/16	5 3/4	Proto	1Q738
1/4	7/16	5 3/4	Westward	2AJE2
5/16	1/2	6	Westward	2AJE3
5/16	1/2	6 3/8	Proto	1Q746
3/8	5/8	6 1/2	Proto	1Q741
Drive Pin Punches - 2-piece				
3/32	1/4	4 3/4	Proto	3R113
1/8	5/16	5 5/16	Proto	3R114
3/16	3/8	5 7/8	Proto	3R116
1/4	1/2	6 3/4	Proto	3R118
Extra Long Alignment Punches				
3/16	5/8	16	Westward	2AJB5
3/16	5/8	16	Proto	3R094
1/4	3/4	18	Westward	2AJB7
5/16	3/4	18	Westward	2AJB6
1/2	7/8	18	Westward	2AJB8
5/8	7/8	21	Westward	2AJB9
Long Drive Pin Punches				
1/8	3/8	8	Westward	2AJE4
5/32	3/8	8	Proto	1Q749
5/32	3/8	8	Westward	2AJE5
5/32	3/8	8	Proto	35XT09
3/16	3/8	8	Westward	2AJE6
3/16	3/8	8	Proto	35XT10
7/32	7/16	8	Proto	1Q752
1/4	3/8	8	Westward	2AJE7
1/4	1/2	8	Proto	1Q739
5/16	1/2	8	Proto	1Q747
5/16	1/2	8	Westward	2AJE8
3/8	1/2	8	Westward	2AJE9
Long Taper Punches				
5/16	5/8	11	Blackhawk by Proto	2R491
Pin Punches				
5/32	5/16	5 1/4	Proto	6DJX3
3/16	3/8	5 7/16	Proto	6DJX1

Tip Size (in.)	Hex (in.)	L (in.)	Brand	Item No.
Prick Punches				
5/32	5/16	5	Westward	2AJF1
3/16	3/8	5 1/4	Westward	2AJF2
Roll Pin Punches				
1/16	1/4	3 3/4	Proto	1Q762
1/16	1/4	3 3/4	Westward	2AJF6
3/32	1/4	4 1/4	Proto	1Q764
3/32	1/4	4 1/4	Westward	2AJF7
1/8	5/16	4 3/4	Proto	1Q760
1/8	5/16	4 3/4	Westward	2AJF8
5/32	5/16	5 1/4	Proto	1Q768
5/32	5/16	5 1/4	Westward	2AJF9
3/16	3/8	5 7/16	Proto	1Q763
3/16	3/8	5 7/16	Westward	2AJG1
7/32	3/8	5 7/8	Proto	1Q775
7/32	3/8	5 7/8	Westward	2AJG2
1/4	7/16	6 7/16	Proto	1Q759
1/4	7/16	6 7/16	Westward	2AJG3
5/16	7/16	6 7/8	Westward	2AJG4
3/8	1/2	7 1/2	Proto	1Q761
3/8	1/2	7 1/2	Westward	2AJG5
Starting Punches				
1/16	1/4	4	Westward	2AJF3
1/8	5/16	5	Westward	2AJF4
1/8	5/16	5 1/8	Proto	3R121
3/16	3/8	6	Westward	2AJF5
1/4	1/2	6 1/2	Proto	3R124
Transfer Punches				
3/32	—	4 7/8	Westward	22N787
7/64	—	4 7/8	Westward	22N788
1/8	—	4 7/8	Westward	22N789
9/64	—	4 7/8	Westward	22N790
5/32	—	4 7/8	Westward	22N791
11/64	—	4 7/8	Westward	22N792
3/16	—	4 7/8	Westward	22N793
13/64	—	4 7/8	Westward	22N794
7/32	—	4 7/8	Westward	22N795
15/64	—	4 7/8	Westward	22N796
1/4	—	4 7/8	Westward	22N797
17/64	—	4 7/8	Westward	22N798
9/32	—	4 7/8	Westward	22N799
19/64	—	4 7/8	Westward	22N801
5/16	—	4 7/8	Westward	22N802
21/64	—	4 7/8	Westward	22N803
11/32	—	4 7/8	Westward	22N804
23/64	—	4 7/8	Westward	22N805
3/8	—	4 7/8	Westward	22N806
25/64	—	4 7/8	Westward	22N807
13/32	—	4 7/8	Westward	22N808
27/64	—	4 7/8	Westward	22N809
7/16	—	4 7/8	Westward	22N810
29/64	—	4 7/8	Westward	22N811
15/32	—	4 7/8	Westward	22N812
31/64	—	4 7/8	Westward	22N813
1/2	—	4 7/8	Westward	22N814
33/64	—	4 7/8	Westward	22N815
17/32	—	4 7/8	Westward	22N816
35/64	—	4 7/8	Westward	22N817
9/16	—	4 7/8	Westward	22N818
37/64	—	4 7/8	Westward	22N819
19/32	—	4 7/8	Westward	22N820
39/64	—	4 7/8	Westward	22N821
5/8	—	4 7/8	Westward	22N822
41/64	—	4 7/8	Westward	22N823
21/32	—	4 7/8	Westward	22N824
43/64	—	4 7/8	Westward	22N825
11/16	—	4 7/8	Westward	22N826
45/64	—	4 7/8	Westward	22N827
23/32	—	4 7/8	Westward	22N828
47/64	—	4 7/8	Westward	22N829
3/4	—	4 7/8	Westward	22N830
49/64	—	4 7/8	Westward	22N831
25/32	—	4 7/8	Westward	22N832
51/64	—	4 7/8	Westward	22N833
13/16	—	4 7/8	Westward	22N834
53/64	—	4 7/8	Westward	22N835
27/32	—	4 7/8	Westward	22N836
55/64	—	4 7/8	Westward	22N837
7/8	—	4 7/8	Westward	22N838
57/64	—	4 7/8	Westward	22N839
29/32	—	4 7/8	Westward	22N840
59/64	—	4 7/8	Westward	22N841
15/16	—	4 7/8	Westward	22N842
61/64	—	4 7/8	Westward	22N843
31/32	—	4 7/8	Westward	22N844
63/64	—	4 7/8	Westward	22N845
1	—	4 7/8	Westward	22N846

** No. 1Q802 is nonsparking and nonmarring.*



Brick Chisel
No. 2AJJ8



Cape Chisel
No. 24N089



Cold Chisel
No. 2AJG6



Wood Chisel
No. 6DJP8



Super-Duty Cold Chisel
No. 2AJH6

WESTWARD® STANLEY PROTO®

STANLEY FatMax® DASCOPRO Quality Tools Since 1922 DEWALT®

Chisels

Cape—Cut keyways and slots in metal.

Cold—Cut any cold metal softer than the chisel itself, such as wrought iron, cast iron, steel, brass, bronze, copper, aluminum, bolts, nuts, and rivets.

Diamond Point—Cut V-grooves and clean out inside corners.

Super-Duty Cold—Longer shank features a knurl for better grip. Polished identification panel is marked with tool number and size. Black oxide finish.

Tip Size	L	Brand	Item No.	
Brick Chisels				
3"	7 1/2"	Westward	2AJJ8	*
3"	8 1/2"	STANLEY	6AUH6	
4"	8 1/2"	STANLEY	6AUF6	
Cape Chisels				
3/16"	4 5/8"	Westward	24N089	
Cold Chisels				
1/4"	4 7/8"	Proto	3R139	
1/4"	5"	Westward	2AJG6	
5/16"	5"	Westward	2AJG7	
5/16"	5 1/8"	Proto	3R140	
3/8"	5 3/8"	Proto	3R141	
3/8"	5 1/2"	Westward	2AJG8	
3/8"	5 1/2"	Proto	49XJ02	
7/16"	5 9/16"	Proto	3R142	
1/2"	6"	Westward	2AJG9	
1/2"	6"	Proto	3R143	
1/2"	6"	Proto	31CL33	
5/8"	6 1/2"	Westward	2AJH1	
5/8"	6 3/4"	Proto	3R144	
5/8"	7 5/8"	Westward	24N084	
3/4"	7"	Westward	2AJH2	
3/4"	7"	Proto	3R145	
3/4"	8 7/16"	Westward	24N086	
3/4"	12"	Proto	6XW21	
7/8"	7 1/2"	Westward	2AJH3	
7/8"	8"	Proto	3R146	
7/8"	9 1/4"	Westward	24N083	
7/8"	12"	Proto	6DJU5	
7/8"	12"	Proto	3R147	
1"	8"	Westward	24N107	
1"	8"	Westward	2AJH4	
1"	8"	Proto	3R148	
1"	10 1/16"	Westward	24N088	
1"	12"	Westward	24N108	
1"	12"	Westward	2AJH5	
1"	12"	Proto	3R149	
1"	18"	Westward	24N110	
1"	18"	Proto	6XW23	
1 3/16"	8"	Westward	24N109	
1 3/16"	8 1/4"	Proto	3R150	
Cold Chisels, Demolition				
1/4"	5"	Proto	6DJU4	
5/16"	5 1/8"	Proto	6DJU2	
3/8"	5 3/8"	Proto	6DJU8	
7/16"	5 9/16"	Proto	6DJU7	
1/2"	6"	Proto	6DJV1	
1/2"	12"	Proto	6DJV2	
5/8"	7"	Proto	6DJU0	
3/4"	7"	Proto	6DJU9	
3/4"	12"	Proto	6DJV0	
1"	12"	Proto	6DJV3	
1 3/16"	8 1/4"	Proto	6DJU3	

** Ergonomic hand guard.*

Tip Size	L	Brand	Item No.	
Cold Chisels, Demolition, Handguard				
1"	12"	STANLEY	6AUJ0	
Cold Chisels, Handguard				
7/8"	8"	Westward	2AJJ4	*
7/8"	12"	Westward	2AJJ5	*
1"	8"	Westward	2AJJ6	*
1"	12"	Westward	2AJJ7	*
Concrete Chisels				
3/4"	12"	STANLEY	6AUH8	
Diamond Point Chisels				
3/16"	5"	Westward	24N093	
1/4"	5 5/8"	Westward	24N094	
FATMAX® Folding Pocket Chisel				
1"	8 1/2"	STANLEY	48Z984	
FATMAX® Wood Chisels				
1/4"	9"	STANLEY	6AUJ2	
3/8"	9"	STANLEY	6AUJ3	
1/2"	9"	STANLEY	6DJP7	
5/8"	9"	STANLEY	6DJP8	
3/4"	9"	STANLEY	6DJP9	
1"	9"	STANLEY	6DJR0	
1 1/4"	9"	STANLEY	6DJR1	
1 1/2"	9"	STANLEY	6DJR2	
2"	9"	STANLEY	6DJR3	
Floor Chisels				
2 1/2"	10"	Westward	24N082	
2 1/2"	10 1/2"	Westward	2AJJ9	*
3"	11"	STANLEY	6AUH9	
Masons Chisels				
3/4"	12"	Westward	2AJJ3	
2 1/4"	7 1/2"	Westward	2AJK1	*
2 1/4"	7 1/2"	Dasco Pro	40JC41	
2 3/4"	8 1/2"	STANLEY	6AUJ1	
Side Strike				
1"	10 3/4"	DeWalt	48Z983	
Super-Duty Cold Chisels				
3/8"	6"	Proto	1FJ99	
3/8"	6"	Westward	2AJH6	
1/2"	6 1/2"	Westward	2AJH7	
1/2"	6 13/16"	Proto	1FK02	
5/8"	7"	Westward	2AJH8	
5/8"	7 5/8"	Proto	1FJ98	
3/4"	7 1/2"	Westward	2AJH9	
3/4"	8 7/16"	Proto	1FK01	
7/8"	8"	Westward	2AJJ1	
7/8"	9 1/4"	Proto	1FJ97	
1"	9"	Westward	2AJJ2	
1"	10 1/16"	Proto	1FK03	
Wood Chisels				
1/4"	9 1/4"	STANLEY	6AUH0	
1/2"	9 1/4"	STANLEY	6AUH1	
3/4"	9 1/4"	STANLEY	6AUH2	
1"	9 1/4"	STANLEY	6AUH3	
1 1/4"	9 1/4"	STANLEY	6AUH4	
1 1/2"	9 1/4"	STANLEY	6AUH5	


Pry Bar w/ Ergonomic Handle
No. 2KKW4

Pinch Point Bar
No. 3FE95

Aligning Pry Bar
No. 3APX3


Rolling Head Pry Bar
No. 5C930


Die Separating Bar
No. 2KKV1


Flat Utility Bar
No. 3FE94



Flat Utility Bar w/ Reverse Hook
No. 3NWD6


Nail Pullers, Double End
No. 3FE96


4-Pc. Pry Bar Set
No. 4PM09

Wrecking/Pry Bars, Nail Pullers and Sets

Pry Bars with Plastic Handles have a flat prying end with comfortable easy-to-grip handles. Pinch Point Bars lift and move heavy objects. Aligning Pry Bars align holes in dies, scaffolding, and similar applications. Rolling Head Pry Bars have a long-tapered end for alignments. Die Separating Bars have a flat end for wedging dies apart. Flat Utility Bars have 1 slightly bent and 1 sharply bent end, with nail-pulling slots and hole. Nail Pullers are of hex stock with flat slotted end and a curved or bent slotted end. Offset Ripping Bars are used for scraping and heavy nail pulling. Gooseneck Wrecking Bars are for heavy-duty prying applications and demolition work. Digging Bars are for digging and prying at dirt and large rocks. Slate Bar can be used to move, break, or deform large or heavy items, such as slate.

Overall Length	Overall Width	Brand	Item No.
Pry Bars w/Ergonomic Handle			
25"	1½"	Dominator	2KKW5
17"	1½"	Dominator	2KKU5
	1½"	Dominator	2KKW4
12"	1½"	Dominator	2KKW3
	1½"	Dominator	2KKW2
10"	1½"	Dominator	2KKW1
Pry Bars w/Ergonomic Handle, Curved Tip			
38¼"	1½"	Dominator	2KKU1
31"	1½"	Dominator	2KKU7
25"	1½"	Dominator	2KKU6
Pry Bars w/Plastic Handles			
31⅞"	¾"	Proto	1C044
31"	½"	Mayhew	6DKF0
28"	¾"	Proto	1C046
24"	25/32"	Westward	2AJK4
25"	½"	Mayhew	6DKE9
18"	25/32"	Westward	2AJK3
17½"	⅝"	Proto	1C048
17"	⅜"	Mayhew	6DKE8
14½"	⅝"	Proto	1C050
12"	11/16"	Westward	2AJK2
Pry Bar, Curved Tip			
9½"	1½"	Westward	31MA27
7½"	⅞"	Westward	31MA25
Pry Bar, Double End			
36"	1½"	Westward	31MA29
30"	1½"	Westward	31MA31
	1 3/16"	Westward	31MA28
24"	1 3/16"	Westward	31MA30
Pry Bar, Tri-Lobular Design			
36"	1¾"	STANLEY	6GRL2
Flat Pry Bar, Tempered Striking Surface			
21"	1¾"	STANLEY	6GRL7
Pinch Point Bars			
66¼"	1½"	True Temper	21YM28
60½"	1¼"	True Temper	6DPV4
60"	32mm	Westward	3FE91
51"	1⅛"	Westward	3FE95
48"	1"	True Temper	6DPV7
36"	1"	True Temper	21YM27
	1"	Mayhew	49C162
30"	1"	Mayhew	49C163
	⅞"	Mayhew	49C164
24"	¾"	True Temper	6DPV6
	⅞"	Mayhew	49C165
20"	¾"	Mayhew	6DKE6

Overall Length	Overall Width	Brand	Item No.
18½"	⅝"	True Temper	6DPV5
16"	⅝"	Mayhew	6DKE5
14"	½"	Mayhew	6DKE4
Aligning Pry Bars			
60"	1"	Mayhew	6DKE7
42"	1"	Mayhew	4WME1
36"	⅞"	Westward	3APX6
30"	⅞"	Proto	3R550
	⅞"	Westward	3APX5
24"	¾"	Proto	3R549
	¾"	Westward	3APX4
18"	⅝"	Proto	3R548
	⅝"	Westward	3APX3
16"	½"	Proto	3R547
	⅝"	Westward	3APX2
Rolling Head Pry Bars			
22"	⅞"	Mayhew	49C168
20"	11/16"	Westward	3APX9
18"	2⅜"	Mayhew	49C167
16"	3½"	Mayhew	2KKW7
	⅝"	Proto	3R551
	9/16"	Westward	3APX8
12"	½"	Proto	5C930
	7/16"	Westward	3APX7
9⅜"	2"	Mayhew	49C166
Screwdriver Handle Pry Bar, Chisel Tip			
31⅛"	⅝"	Westward	31MA39
28"	⅝"	Westward	31MA36
Die Separating Bars			
30"	3½"	Mayhew	2KKV2
18"	3½"	Mayhew	2KKV1
Die Separating Bar, Curved			
18"	⅝"	Westward	31MA37
Flat Utility Bars			
24"	1¾"	STANLEY	5ME49
21"	2"	Vaughan	3NWD5
15½"	1¾"	STANLEY	4HJ36
15"	2"	Vaughan	3NWX7
	3 1/32"	Westward	31MA35
13½"	1⅜"	Westward	3FE94
13"	1⅜"	True Temper	6DPW0
12¾"	1¾"	STANLEY	6R311
12"	2"	Vaughan	3NWD4

Overall Length	Overall Width	Brand	Item No.
Flat Utility Bar with Reverse Hook			
15"	2"	Vaughan	3NWD6
Nail Pullers, Single End			
15"	⅝"	Mayhew	6DKE2
10"	⅝"	Mayhew	6DKE3
Nail Pullers, Double End			
12"	⅝"	STANLEY	5ME50
11½"	3"	Vaughan	6CLR8
	2"	Vaughan	6CLV0
11"	⅝"	STANLEY	6R299
	⅝"	Westward	3FE96
10"	½"	STANLEY	16W837
7⅛"	2"	Vaughan	6CLR9
Nail Puller/Chisel Scrapers			
16"	3¼"	Vaughan	6CLR7
10"	2½"	Vaughan	6CLT0
	1¾"	STANLEY	5ME51
Offset Ripping Bars			
17"	¾"	True Temper	6DPV9
	3⅞"	Westward	3FE92
Gooseneck Wrecking Bars			
36"	¾"	True Temper	6EUP1
	¾"	Westward	3FE89
30"	¾"	True Temper	6EUP0
	¾"	Westward	3FE93
24"	¾"	True Temper	6EUN9
	¾"	Westward	3FE90
18"	⅝"	True Temper	6DPW3
12"	½"	Westward	3FE97
Gooseneck Wrecking Bar, Double End			
24"	3 9/16"	Westward	31MA34
18"	3½"	Westward	31MA24
Digging Bars, Post Hole			
69"	3¼"	True Temper	21YM25
Digging Bar, Pencil Point			
72½"	1¼"	True Temper	21YM26
Slate Bar			
60"	2¾"	True Temper	21YM29
Gasket Scrapers			
7½"	—	Proto	5C939
Razor Blade Scrapers			
8"	—	STANLEY	6R029

No. of Pieces	Description	Includes	Brand	Item No.
Pry Bar Sets				
3	Tethered		Proto	40JD65
5	Pry Bar Set	5-C 10" OAL, 7-C 12" OAL, 12-C 17" OAL, 18-C 25", and 24-C 31" OAL Dominator Pry Bars, (1) Plastic Tray 34-34" x 9¼"	Mayhew	49C172
4	Tethered	Tether Ready Attachment Point	Proto	40JD16
4	Tethered	Tether Ready Attachment Point	Proto	40JD19
4	Pry Bar Set	14½", 17½", 28", 31⅞"	STANLEY	23UC33
4	Pry Bar Set	(4) Pieces ⅞" x 18" Cold Chisel, 14" Line-Up Pry Bar, 20" Line-Up Pry Bar, 16" Rolling Head Pry Bar	Mayhew	49C169
4	Pry Bar Set	(4) Pieces, 16" Line-Up Pry Bar, ⅝" x 16" Ladyfoot Pry Bar, 12-C Dominator Pry Bar, Mini Utility Pry Bar	Mayhew	49C170
4	Pry Bar Set	12 and 18" Pry Bars, 15" Flat Bar, 24" Gooseneck Bar	Westward	4PM09
4	Curved Pry Bar Set	18" and 24" Pry Bars, 12" and 16" Cat Bar	Westward	31MA33
4	Aligning and Rolling Head Pry Bar Set	18" and 24" Aligning Pry Bars, 12" and 16" Rolling Head Bars	Proto	3R545
3	Curved Pry Bar Set	5½", 7", 9½" Pry Bars	Westward	31MA23
3	Curved Pry Bar Set	12", 18", 25" Pry Bars	Westward	31MA32
3	Curved Pry Bar Set	14", 16½", 20" Pry Bars	Westward	31MA40
3	Aligning Pry Bar Set	12", 16", and 21" Pry Bars	Mayhew	2KKU8
3	Pry Bar Set	Sizes 12", 16", and 21"	STANLEY	23UC34
3	Aligning and Rolling Head Pry Bar Set	14" and 20" Aligning Pry Bars, 16" Rolling Head Pry Bar	Mayhew	2KKU9
3	Ergonomic Handle Pry Bar Set	12", 17" and 25" Straight Tip Pry Bars	Dominator	2KKV6
3	Plastic Handle Pry Bar Set	12, 18, 24" Pry Bars	Westward	2AJL2
3	Curved Pry Bar Set, Ergonomic Handle	12", 17", and 25" Pry Bars	Dominator	2KKT7
3	Curved Pry Bar Set	12", 17", and 25" Pry Bars	Mayhew	5MM13


Telescoping Alligator Clip
No. 1VTY5


Round w/ Release Handle
No. 1VTX9


Fixed
No. 3DYF3


Push-Button
No. 1GF49


Telescoping
No. 1VTZ6


Hang-Type Sweeper
No. 2VAH2


Rectangular w/Release Handle
No. 2VAG8

PROTO® MAG-MATE® MAYHEW GENERAL® WESTWARD® Ullman GA GRAINGER APPROVED

Retrieving Tools, Magnetic Pickups, and Magnetic Sweepers

Description	L	W	Dia.	Extended Length	Pull Capacity	Brand	Item No.
Push-Button	19½"	—	½"	—	1½ lb.	Proto	1GF49
Rectangular w/Release Handle	4¾"	3¼"	—	—	4 lb.	GA	2VAG4
Rectangular w/Release Handle	4¾"	3¼"	—	—	4 lb.	GA	2VAG8
Rectangular w/Release Handle	6¼"	4¾"	9¼"	9¼"	8 lb.	Westward	2VAG5
Rectangular w/Release Handle	8½"	4¾"	9¾"	9¾"	10 lb.	Westward	2VAG6
Round w/Release Handle	8¾"	—	3½"	—	16 lb.	Westward	1VTX9
Telescoping	6¼"	—	—	25"	3½-5 lb.	Westward	1VTX7
Telescoping	6½"	—	29/32"	25½"	14 lb.	Westward	1VTZ9
Telescoping	6⅜"	—	½"	33¼"	2½ lb.	Ullman	16W181
Telescoping	7½"	—	—	32"	14 lb.	Mayhew	4KMG5
Telescoping	7½"	—	—	32"	3 lb.	Mayhew	4KMG7
Telescoping	8¼"	—	½"	30¼"	16 lb.	Ullman	16W179
Telescoping	8¼"	—	½"	30¼"	10 lb.	Ullman	16W183
Telescoping	16¼"	—	⅜"	27"	5 lb.	Westward	1VTZ6
Telescoping	16¾"	—	½"	26¾"	1½ lb.	Proto	5C598
Telescoping, Flexible	8¾"	—	⅜"	15¾"	5½ lb.	Westward	4FPU6
Telescoping, Swivel Head	7½"	—	—	33"	14 lb.	Mayhew	4KMG6
Telescoping Magnet/Mirror Set	6¾"	—	¼"	19½"	1½ lb.	Westward	4FPV2
Telescoping Magnet/Mirror Set	10"	—	½"	34¼"	16 lb.	Ullman	16W180
Telescoping w/ LED Light	6¾"	—	1"	27¾"	8 lb.	Ullman	16W192
Telescoping w/ LED Light	8"	—	1"	32¾"	8 lb.	Ullman	16W193
Telescoping w/Needle Head	6"	—	¼"	25"	1½ lb.	Westward	4FPU4
Telescoping w/Pocket Clip	—	—	—	25"		Westward	1VTX6
Telescoping w/Pocket Clip	5¼"	⅜"	—	24"	2 lb.	Westward	1VTZ2
Telescoping w/Pocket Clip	5½"	—	½"	25½"	2	Ullman	16W184
Telescoping w/Pocket Clip	6⅜"	—	7/16"	30"	2 lb.	Westward	1VTZ3
Telescoping w/Pocket Clip	7½"	—	½"	33¾"	5 lb.	Ullman	16W182
Magnetic Sweepers							
Extendable Pole	—	—	—	37"	50 lb.	Westward	1VTY4
Hanging Magnetic Sweeper, Hanging	—	72"	—	—	640 lb.	GA	9RYJ2
Hang-Type	36"	5"	1¾"	1¾"	320 lb.	GA	2VAH1
Hang-Type	48"	5"	—	—	426 lb.	GA	2VAH2
Hang-Type	78"	5"	—	—	695 lb.	GA	2VAH3
Hang-Type	84"	5"	—	—	745 lb.	GA	2VAH4
Magnetic Handy Clip	2¼"	1¼"	—	—	7 lb.	GA	8AT89
Magnetic Rake	24"	12"	—	41"	13¼ lb.	Westward	4YCK6
Magnetic Sweeper	—	40½"	—	—	240 lb.	GA	9MAU0
Magnetic Sweeper, Hang-Type	3⅛"	36"	—	—	330 lb.s	GA	10E767
Magnetic Sweeper, Hang-Type	3⅛"	48"	—	—	440 lb.s	GA	10E768
Magnetic Sweeper, Push-Type	5"	22½"	—	—	97 lb.	GA	10E766
Magnetic Sweeper w/Release	—	30¼"	—	—	160 lb.	GA	8AT72
Mini Sweeper, Telescoping	31¼"	15½"	15½"	40"	35 lb.	Magnet Source	38HY85
w/Extension Handle	24"	—	3½"	41"	3 lb.	Westward	4FPV3
w/Wheels	13"	2"	—	42"	35 lb.	Westward	1VTY1
w/Wheels	18"	2"	—	42"	35 lb.	Westward	1VTY3
w/Wheels and Release Lever	24"	7½"	—	47"	150 lb.	Westward	1VTY2
w/Wheels and Release Lever	25"	15⅛"	—	37"	13¼ lb.	Westward	4YCK5

Description	L (in.)	W (in.)	Magnetic Strength	Brand	Item No.
Magnetic Holders					
Magnetic Wrist Holder	11½	1⅝	0.66 lbs.	Westward	4EWR1
Magnetic Tray	14	6¼	20 lbs.	Westward	4YCK4
Magnet with Broom Holder	1½	2⅝	41 lbs.	Mag-Mate	49M020


Telescoping Round
No. 3R561


Telescoping, Oblong
No. 1VUA2


Glass, Oval
No. 1VTY8


Glass w/Base, Rectangular
No. 1VTZ1

Inspection Mirrors

MAYHEW MAG-MATE® Ullman PROTO® GENERAL® WESTWARD®

Description	Mirror Size (in.)	Shape	L (in.)	Brand	Item No.
Telescoping					
Acrylic	2¼ x 3⅝	Oblong	7¾ to 35½	Mayhew	4KME8
Acrylic	4 x 6	Oblong	8½ to 37	Mayhew	4KMF2
Acrylic Mirror, Nylon Head	2 x 2	Square	7 to 35½	Mag-Mate	35T106
Glass	2⅛ x 3½	Rectangular	3½	Ullman	38VY62
Glass	2⅛ x 3½	Rectangular	11¼ to 15½	Proto	3R562
Glass	2⅛ x 3½	Rectangular	11¼	Ullman	38VY60
Glass	2¼	Round	7 to 36½	Mag-Mate	35T122
Glass	2¼	Round	8⅝	General	39EP61
Glass	2¼	Round	10 to 14	Proto	3R561
Glass	2¼	Round	10½ to 19¾	Westward	1VTY7
Glass	3¼	Round	6½	Ullman	38VY59
Glass	3¼	Square	9⅝	General	39EP62
Glass	3½ x 2	Oblong	11 to 30	Westward	1VTX8
Glass	3½ x 2	Oblong	14 to 18 ½	Westward	1VTY9
Glass, Mounted on Rolling Swivel Wheels	7 x 14	Rectangular	49 to 74	Mag-Mate	35T121
Glass, w/LED Light	2 x 3	Rectangular	12¼ to 33	General	6TFG5
Glass, w/Magnet Tip	1¼	Round	4½ to 17½	Westward	4FPV1

Description	Mirror Size (in.)	Shape	L (in.)	Brand	Item No.
Glass Mirror, Nylon Head	2½ x 3½	Rectangular	7¼ to 37	Mag-Mate	35T123
Nylon Polymer	1¾ x 2½	Oblong	—	Westward	1VUA2
Stainless Steel	2 x 3¾	Oblong	6¾ to 28½	Mayhew	4KMF1
Stainless Steel	2 x 3	Rectangular	7 to 37	Mag-Mate	35T124
Stainless Steel	2¼	Round	7 to 36	Mag-Mate	49L984
Stainless Steel, Flame Inspection	2 x 3¾	Oblong	9¾ to 29½	Westward	4FPU9
Stainless Steel, w/LED Light	1⅜	Round	6½ to 35	Ullman	16W187
Stainless Steel, w/LED Light	2¼ x 3½	Rectangular	6¾ to 30¼	Ullman	16W190
Stainless Steel, w/LED Light	2⅜	Round	6½ to 36⅜	Ullman	16W188
Stainless Steel, w/LED Light	3⅜	Round	6½ to 29½	Ullman	16W189
Flex Shaft					
Acrylic	1¾ x 2½	Oblong	23	Mayhew	4KME7
Fixed Shaft					
All Angle Ball Joint	1 x 2	Oval	8¾	Proto	3R560
Glass	1 x 2	Oval	12	Westward	1VTY8
Glass, w/Base	2⅛ x 3½	Rectangular	8 13/16	Westward	1VTZ1


No. 12A537


No. 20PD93


No. 32H604


No. 32H606


No. 21XU77


No. 48FX56

WILTON

B.A.S.H.™ Sledge Hammers

Proprietary Unbreakable™ steel-core technology makes these hammers suitable for the toughest jobs. Tested to withstand more than 25,000 overstrikes. Nonslip rubber grip and safety plate help assure the safety of the user and of those in the immediate area. Available with drop-forged steel head in High-Vis green color, or nonsparking brass head.

Head Weight	Face Dia.	Overall Length	Head Material	Item No.
Double Face Sledge Hammer				
2½ lb.	2"	12"	Forged Steel	12A536
4 lb.	2⅛"	12"		12A537
4 lb.	2½"	18"		12A538
4 lb.	1 11/16"	26"		40P669
6 lb.	1⅞"	18"		40P670
6 lb.	2¼"	26"		12A539
6 lb.	3"	32"		12A540
6 lb.	3"	38"		21XU62
8 lb.	2⅛"	18"		40P671
8 lb.	2½"	26"		12A541
8 lb.	2⅛"	30"		12A542
8 lb.	3"	38"		12A543
10 lb.	2¼"	18"		40P672
10 lb.	3"	26"		12A544
10 lb.	2⅝"	32"		12A545
10 lb.	3"	38"		12A546
12 lb.	3"	26"		12A547
12 lb.	2¾"	32"		12A548
12 lb.	3"	38"		12A549
14 lb.	3"	26"		21XU63
14 lb.	3"	32"		12A550
14 lb.	3"	38"		12A551
20 lb.	3"	26"		21XU64
20 lb.	3"	32"		21XU65
20 lb.	3¼"	38"		12A552
Double Face Sledge Hammer, Brass Head				
2½ lb.	1 13/32"	14"	Brass	20PD91
4 lb.	1⅝"	14"		20PD92
4 lb.	1⅝"	18"		20PD93
6 lb.	1¾"	18"		20PD94
Soft Face Sledge Hammer				
2½ lb.	2"	14"	Forged Steel	21XU66
4 lb.	2½"	12"		21XU67
4 lb.	2½"	18"		21XU68
6 lb.	3"	26"		21XU69
6 lb.	3"	38"		21XU70
8 lb.	3"	26"		21XU71
8 lb.	3"	38"		21XU72
10 lb.	3"	38"		21XU73
12 lb.	3"	38"		21XU74
14 lb.	3"	38"		21XU75
Ball Pein Hammer				
1½	—	16"	Drop Forged Steel	32H603
2	—	16"		32H604
2½	—	13½"		32H605
Cross Pein Hammer				
2	1½"	18"	Forged Steel	32H606
3	1½"	18"		32H607
8 lb.	—	36"	Steel	20C892
Spike Maul				
10 lb.	—	38"	Steel	20PD95
Splitting Maul				
6 lb.	—	32"	Drop Forge Steel, Hi-Viz Green	21XU76
6 lb.	—	38"		21XU77
8 lb.	—	38"		21XU79
Tether Ready, Shop Hammer Kit				
64 oz., 32 oz., 64 oz.	1¾", 1¾", 2¼"	16"	Forged Steel	48FX57
Tether Ready, Sledge Hammer				
8 lb.	—	16"	Brass	45GX79
8 lb.	—	30"		45GX80

Item	Head Weight	Face Dia.	Item No.
B.A.S.H Kits			
Mechanics Hammer Kit	64 oz., 32 oz., 32 oz.	1¾", 1¾", 1⅝"—	48FX56
Ball Pein Hammer Set	24.0, 32.0, 40.0	—1½, 1¾, 1⅞	54TU08

Pro TIP

Choosing the Right Hammer

There are many different types of hammers, each made with a certain function in mind. Because some hammers have similar designs, it may appear that one hammer should be good enough for a variety of uses. However, choosing the right one for the job at hand is the only way to ensure you're getting the most out of your hammer.

For instance, **Claw** hammers are the most common and are used for woodworking and prying. They feature a smooth head for finishing work. The claw is curved for removing nails. **Framing** hammers, also called **Rip** hammers, are a type of claw hammer but with a straight rather than curved claw and a long handle. The head has a rough surface to keep it from slipping while driving nails. This hammer is suited for framing, splitting, and small demolition. Lightweight **Tack** hammers were made for attaching fabrics to furniture. **Dead Blow** hammers don't rebound after striking and are best for automotive applications, setting joints, and dent removal.

For descriptions of dozen different hammers and their unique uses, see the article "Choosing the Right Hammer: Types of Hammers & Uses" at **grainger.com/hammertypes**


No. 2DBT7


No. 4YR67


No. 48TE31

NUPLA® Since 1938

★ WESTWARD®

Sledge Hammers

Double-face hammers have forged steel heads with 2 large, flat striking surfaces.

Head Weight	Face Dia.	Overall Length	Head Material	Brand	Item No.
Fiberglass and Rubber Handle					
3 lb.	1 39/64"	14"	Steel	Nupla	48TE25
4 lb.	1 39/64"	14"	Steel	Nupla	48TE26
6 lb.	1 45/64"	31¾"	Steel	Nupla	48TE27
8 lb.	2"	31¾"	Steel	Nupla	48TE28
10 lb.	2 13/64"	31¾"	Steel	Nupla	48TE29
12 lb.	2¼"	31¾"	Steel	Nupla	48TE30
Fiberglass Handle					
1½ lb.	1⅛"	12"	Brass	Nupla	4A105
2½ lb.	1½"	12"	Brass	Nupla	6D048
3 lb.	1 9/16"	14"	Forged Steel	Westward	2DBT7
3 lb.	1½"	15⅜"	Forged Steel	Westward	6DWL5
3 lb.	1½"	14"	Forged Steel	Nupla	4A108
3¼ lb.	1⅝"	12"	Brass	Nupla	5LV04
4 lb.	1½"	14"	Forged Steel	Westward	6DWL4
4 lb.	1½"	15½"	Forged Steel	Westward	6DWL3
6 lb.	2¼"	33"	Forged Steel	Westward	2DBT8
8 lb.	2½"	34"	Forged Steel	Westward	2DBT9
8 lb.	2½"	32"	Forged Steel	Nupla	3MD39
10 lb.	2½"	33"	Forged Steel	Westward	2DBU1
12 lb.	2¾"	34"	Forged Steel	Westward	2DBU2
14 lb.	3"	33½"	Forged Steel	Westward	6DWL2
Hickory Wood Handle					
2 lb.	1⅜"	10⅝	Forged Steel	Westward	20JX60
3 lb.	1¾"	15¼"	Forged Steel	Westward	4YR67
4 lb.	1⅜"	10⅝	Forged Steel	Westward	20JX61
6 lb.	2⅛"	35⅛"	Forged Steel	Westward	2DBT2
8 lb.	2⅜"	35⅛"	Forged Steel	Westward	2DBT3
10 lb.	2½"	35½"	Forged Steel	Westward	2DBT4
12 lb.	2⅝"	35⅝"	Forged Steel	Westward	2DBT5
16 lb.	2¾"	35⅞"	Forged Steel	Westward	2DBT6
Wood Handle					
6 lb.	1 45/64"	32"	Steel	Nupla	48TE31
8 lb.	2"	32"	Steel	Nupla	48TE32
8 lb.	2"	36"	Steel	Nupla	48TE33
10 lb.	2 13/64"	36"	Steel	Nupla	48TE35
12 lb.	2¼"	36"	Steel	Nupla	48TE37
16 lb.	2 29/64"	32"	Steel	Nupla	48TE38
16 lb.	2 29/64"	36"	Steel	Nupla	48TE39


No. 6DWG8


No. 4YR57


No. 4YR58



No. 49XH58

WESTWARD STANLEY DEWALT

Claw and Framing Hammers

Curved Claw—Ideal for pulling nails.

Framing—Long, heavy, straight-claw hammers have large faces for faster framing work.

Rip Claw—A straighter claw than curved models makes these hammers better for ripping or prying.

Head Weight (oz.)	Face	Face Dia. (in.)	Overall Length (in.)	Brand	Item No.
Curved Claw Hammers					
Fiberglass, Axe-Style Handle					
16.0	Smooth	1 1/8	13	Westward	**6DWG7**
20.0	Smooth	1 1/4	13	Westward	**6DWG6**
Fiberglass Handle					
20.0	Smooth	1	13	Westward	**2DBP7**
Graphite Handle					
16.0	Smooth	1 3/16	13	STANLEY	**3PY34**
Hickory Handle					
13.0	Smooth	1 1/16	12	Westward	**6DWG8**
13.0	Smooth	1 9/64	13 3/4	STANLEY	**6R253**
16.0	Smooth	1	13	Westward	**4YR59**
16.0	Smooth	1 3/16	13 1/4	STANLEY	**6R252**
20.0	Smooth	1	13	Westward	**2DBP8**
Steel with Rubber Grip Handle					
16.0	Smooth	1 1/4	13	Westward	**6DWG3**
20.0	Smooth	1"	13"	Westward	**6DWG2**
Framing Hammers					
Fiberglass, Axe-Style Handle					
22.0	Milled	1 1/4	14 1/2	Westward	**6DWJ2**
28.0	Milled	1 5/16	15	Westward	**6DWJ1**
Steel with Rubber Grip Handle					
28.0	Checkered	1 1/8	16	STANLEY	**49XH54**
Steel with Shock Reduction Handle					
22.0	Smooth	1 19/64	16	STANLEY	**5NAZ9**

Head Weight (oz.)	Face	Face Dia. (in.)	Overall Length (in.)	Brand	Item No.
Rip Claw Hammers					
Fiberglass, Axe-Style Handle					
16.0	Smooth	1 1/8	13	Westward	**6DWH6**
Fiberglass Handle					
16.0	Smooth	1	13	Westward	**4YR57**
16.0	Smooth	1	13	Westward	**4YR58**
16.0	Smooth	1 1/8	12	STANLEY	**49XH55**
20.0	Smooth	1"	13	Westward	**6DWH7**
Graphite Handle					
20.0	Smooth	1 19/64	13	STANLEY	**3PY37**
Hickory Handle					
16.0	Smooth	1	13	Westward	**4YR60**
20.0	Milled	1 1/8	13	Westward	**6DWJ0**
20.0	Smooth	1 1/8	13	Westward	**6DWH9**
24.0	Milled	1 3/8	13	Westward	**6DWH8**
Indestructible Handle					
16.0	Hardened	1.1	13	Westward	**39CF09**
Steel with Rubber Grip Handle					
14.0	Checkered	1	13 1/2	STANLEY	**49XH51**
14.0	Smooth	1 1/4	14 1/4	STANLEY	**49XH49**
16.0	Smooth	1"	13	Westward	**6DWH2**
16.0	Smooth	1 1/8	13	STANLEY	**49XH52**
16.0	Smooth	1 1/4	13 1/4	DeWalt	**49XH56**
17.0	Checkered	1 1/4	16	STANLEY	**49XH50**
20.0	Smooth	1"	13"	Westward	**6DWH1**
20.0	Smooth	1 1/8	12	STANLEY	**49XH53**
20.0	Smooth	1 3/8	14	DeWalt	**49XH57**
22.0	Milled	1"	16	Westward	**6DWG9**
22.0	Smooth	1"	16	Westward	**6DWH0**
22.0	Checkered	1 1/4	15 7/8	DeWalt	**49XH58**
Steel with Shock Reduction Handle					
16.0	Smooth	1 1/8	13	Westward	**6DWH4**
20.0	Smooth	1 1/4	13	Westward	**6DWH3**


No. 6R294


No. 2DBR6


No. 24Z041



No. 22UM27

STANLEY WESTWARD PROTO

Ball Pein Hammers & Sets

Feature 1 crowned striking face with beveled edges and 1 spherical striking face. Used for bending and forming sheet metal, driving punches and chisels, and setting rivets.

Head Weight (oz.)	Head Dia. (in.)	Overall Length (in.)	Brand	Item No.
Compo-Cast, Reinforced Steel Handle				
24.0	1 1/2	12 7/8	STANLEY	**6R294**
32.0	1 1/4	14	STANLEY	**6R296**
Fiberglass Handle				
12.0	1 in	13 in	Proto	**53CT46**
16.0	1 1/4 in	13 in	Proto	**53CT48**
24.0	1 13/32 in	14 3/16 in	Proto	**53CT50**
32.0	1 1/2 in	15 1/4 in	Proto	**53CT52**
Graphite Handle				
16.0	1 1/4 in	12 3/4 in	STANLEY	**6R285**
Hickory Handle				
4.0	3/4 in	12 7/8 in	Westward	**6DWN9**
8.0	1 in	11 3/4 in	Westward	**2DBR6**
12.0	1 3/16 in	13 in	STANLEY	**6R267**
12.0	1 3/16 in	13 in	Westward	**2DBR7**
16.0	1 1/4 in	13 3/4 in	Westward	**2DBR8**
16.0	1 5/16 in	14 in	STANLEY	**6R268**
24.0	1 1/2 in	15 1/4 in	STANLEY	**6R269**
24.0	1 1/2 in	15 1/2 in	Westward	**2DBR9**
32.0	1 1/2 in	15 3/4 in	Westward	**2DBT1**
32.0	1 3/4 in	15 7/8 in	STANLEY	**6R270**
40.0	1 5/8 in	16 3/8 in	Westward	**6DWN8**
48.0	1 1/8 in	16 3/8 in	Westward	**6DWN7**
2-Piece Ball Pein Hammer Set				
12.0, 24.0	1 in, 1 1/4 in	12 1/2 in, 14 1/2 in	Westward	**4YR62**
16.0, 32.0	1 in, 1 1/2 in	14 in, 16 in	Westward	**4YR63**
Polypropolene and Thermoplastic Handle				
8.0	1 in	10 63/64 in	Westward	**45RC15**
16.0	1 in	12 57/64 in	Westward	**45RC16**
24.0	1 1/2 in	15 5/32 in	Westward	**45RC17**
32.0	1 1/2 in	15 15/64 in	Westward	**45RC18**
40.0	1 1/2 in	15 1/2 in	Westward	**45RC19**

Head Weight (oz.)	Head Dia. (in.)	Overall Length (in.)	Brand	Item No.	
Steel Handle					
8.0	1 in	10 in	Westward	**6DWN3**	
12.0	1 in	11 in	Westward	**6DWN2**	
16.0	1 in	13 in	Westward	**6DWN1**	
24.0	2 in	13 in	Westward	**6DWN0**	
32.0	2 in	14 in	Westward	**6DWL9**	
Indestructible Handle*					
24.0	1 3/16 in, 1 3/8 in	14 in	Westward	**24Z041**	*
32.0	1 5/16 in, 1 9/16 in	14 in	Westward	**24Z042**	*
Steel with Shock Reduction Handle					
4.0	—	10 in	Proto	**22UM24**	
8.0	—	11 in	Proto	**22UM25**	
12.0	—	12 1/8 in	Proto	**22UM26**	
16.0	—	12 7/8 in	Proto	**22UM27**	
24.0	—	13 25/32 in	Proto	**22UM28**	
32.0	—	14 3/4 in	Proto	**22UM29**	
40.0	—	15 15/64 in	Proto	**22UM30**	
48.0	—	15 3/4 in	Proto	**22UM31**	
3-Piece Ball Pein Hammer Set					
32.0, 40.0, 48.0	—	14 3/4 in, 15 15/64 in, 15 3/4 in	Proto	**22UM33**	
4-Pc. Hammer Set					
8.0, 12.0, 16.0, 24.0	—	11 in, 12 1/8 in, 12 7/8 in, 13 25/32 in	Proto	**22UM32**	
Wood Handle					
4.0	3/4 in	11 in	Proto	**53CT43**	
8.0	1 in	12 in	Proto	**53CT44**	
12.0	1 in	13 in	Proto	**53CT45**	
16.0	1 1/4 in	14 1/2 in	Proto	**53CT47**	
24.0	1 13/32 in	15 in	Proto	**53CT49**	
32.0	1 1/2 in	15 7/8 in	Proto	**53CT51**	
40.0	1 1/2 in	16 3/8 in	Proto	**53CT53**	

Additional Indestructible Handle Hammers are available, see page 828.

WESTWARD STANLEY PROTO

Dead Blow Hammers

Heads contain steel shot or steel sand for more driving force and less bounce-back than solid head style, reducing impact felt by user.

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
Soft Face Hammers					
Hickory Handle					
14 oz.	4 1/8"	1 1/8"	12 3/4"	Westward	**30PA76**
20 oz.	4 1/8"	1 3/8"	12 3/4"	Westward	**30PA73**
Dead Blow Hammers					
Polyurethane Over Steel Handle					
10 oz.	3 1/8"	1 1/4"	10"	STANLEY	**6R336**
52 oz.	5 1/4"	2 3/4"	16"	STANLEY	**6R337**
PVC Over Steel Handle					
8 oz.	3 1/8"	1 3/4"	10 5/8"	Westward	**22PN73**
24 oz.	4 3/4"	1 5/8"	12 3/8"	Westward	**22PN76**
32 oz.	3 7/8"	2 1/8"	13 1/2"	Westward	**22PN72**
32 oz.	5 3/8"	2"	12 3/4"	Westward	**22PN77**
48 oz.	4 7/8"	2 3/8"	13 3/4"	Westward	**22PN71**
64 oz.	5 1/4"	2 5/8"	14 3/8"	Westward	**22PN70**
Rubber Over Steel Handle					
14 oz.	3 1/4"	1"	10"	Westward	**5MX32**
18 oz.	3 5/8"	1"	11"	Westward	**4YR64**
37 oz.	4 3/8"	1 3/4"	14"	Westward	**4YR66**
51 oz.	5"	2"	14"	Westward	**5MX33**
Urethane Over Steel Handle					
5 oz.	3"	1"	9 3/8"	STANLEY	**6R338**
14 oz.	4 1/4"	1 1/4"	10 1/2"	STANLEY	**8APF0**
15 oz.	3 3/4"	1" x 1 1/4"	10 3/8"	Proto	**24AK46**

**Urethane over Brass Head Material*

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
21 oz.	4 1/4"	2"	12 3/4"	STANLEY	**5C933**
21 oz.	4 1/2"	1 1/4" x 1 35/64"	11 3/4"	Proto	**24AK47**
21 oz.	5 1/4"	1 3/4"	12 7/8"	STANLEY	**6R340**
24 oz.	4 5/16"	1 1/4" x 1 1/16"	13"	Proto	**49XH59** *
24 oz.	4 5/16"	1 1/4" x 1 1/16"	13"	Proto	**49XH60**
28 oz.	5 5/8"	1 11/32" x 1 45/64"	13 1/4"	Proto	**24AK48**
48 oz.	5"	2 1/2"	14 3/4"	Proto	**26X087**
48 oz.	5 5/8"	1 45/64" x 2 3/32"	14 1/4"	Proto	**24AK49**
56 oz.	5"	2 1/2"	14 3/4"	Proto	**26X088**
56 oz.	6 13/64"	1 61/64" x 2 13/32"	15 1/2"	Proto	**24AK50**
Nonsparking, Slimline Head, Dead Blow Hammer					
Urethane Over Steel Handle					
18 oz.	4 1/4"	1 1/2"	12"	STANLEY	**6R339**
Nonsparking Dead Blow Hammers					
Fiberglass with Nonslip Grip Handle					
48 oz.	4 5/8"	2 1/16"	14"	Proto	**3R514**
64 oz.	5"	2 5/8"	14 3/8"	Proto	**3R512**
Urethane Over Steel Handle					
18 oz.	3 3/4"	1 3/4"	11"	STANLEY	**5C932**
42 oz.	4 3/4"	2 1/2"	14"	STANLEY	**5C934**
Dead Blow Sledge Hammers					
Urethane Over Steel Handle					
5 lb.	7"	2 3/4"	20"	STANLEY	**6R341**
10 1/2 lb.	8"	3 1/2"	30"	STANLEY	**6R343**
11 1/2 lb.	8"	3 1/2"	36"	STANLEY	**2FDB8**



No. 22PN76



No. 4YR64



No. 5C932

Mallets

WESTWARD STANLEY

Use to minimize marring and surface damage.

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
Plastic Mallets					
Polyurethane Over Steel Handle					
8 oz.	3 1/8"	1 3/4"	10"	Westward	**22PN85**
8 oz.	3 1/8"	1 3/4"	11 3/4"	Westward	**22PN82**
12 oz.	3 1/2"	2"	11 3/4"	Westward	**22PN86**
16 oz.	4"	2 1/4"	12 5/8"	Westward	**22PN83**
24 oz.	4 1/2"	2 1/2"	13 3/8"	Westward	**22PN87**
24 oz.	4 1/2"	2 5/8"	13 3/4"	Westward	**22PN84**

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
Rubber Mallets					
Fiberglass with Vinyl Grip Handle					
32 oz.	4 3/4"	3"	15 3/4"	Westward	**30PA82**
Hardwood Handle					
16 oz.	3 7/8"	2 3/8"	11 3/4"	STANLEY	**6GRH5**
18 oz.	3 15/16"	2 3/8"	13 1/2"	STANLEY	**6R335**
Hickory Handle					
2 lb.	4 5/8"	3 1/2"	13 3/8"	Westward	**6DWK9**
8 oz.	3 9/16"	1 1/2"	12 3/8"	Westward	**6DWL1**
13 oz.	3"	2 1/4"	13"	Westward	**5MX41**
16 oz.	3 7/8"	2 3/8"	13"	Westward	**6DWL0**
22 oz.	4"	2 1/4"	14"	Westward	**5MX42**
Steel with Vinyl Grip Handle					
16 oz.	3 5/8"	2"	13"	Westward	**4YR61**



No. 6GRH5



No. 6DWL0

STANLEY VAUGHAN WESTWARD NUPLA

Specialty Hammers and Hatchets

Drywall, Shingler's, and Builder's—Have a striking face on 1 end for driving nails and a hatchet-type face on the other end for demolition work. Replacement blades and gauges are available for Shingler's Hammers. Builder's Hatchets are for cutting, splitting, and trimming building materials.

Bricklayer's and Pick Hammers—Bricklayer's Hammers have a striking face on 1 end for driving masonry chisels and a curved blade with beveled edge on the other for chipping mortar and trimming bricks to size. Pick hammers are designed for chipping rocks and stone to a desired shape and size. Metal Forming Pick Hammers are used for sheet metal or auto body work.

Tinner's Riveting Hammers—Use for setting rivets in sheet metal.

Welder's Scaling and Chipping Hammers—Have both a pick end and a chisel end. Generally used to remove slag, scale, and welding spatter from welded materials.

Head Weight	Handle	Face	Cutting Edge	Overall Length	Brand	Item No.
Drywall Hammers						
14 oz	Tuning Fork Design	Milled, Rim Tempered	1 1/16 in	13 1/2 in	STANLEY	**6GRK1**
Shingler's Hammers						
15 oz	Tuning Fork Design	Milled, Rim Tempered	1 47/64 in	12 3/4 in	STANLEY	**6GRK5**
Builder's Hatchets						
22 oz	Hickory	Smooth	3 1/2 in	13 in	Vaughan	**3NWD9**
1 3/4 lb	Hickory	Milled	3 3/8 in	17 5/8 in	Vaughan	**2A536**
1 3/4 lb	Hickory	Scored	3 3/8 in	17 1/2 in	Westward	**5MX31**



Builder's Hatchet
No. 2A536



Tinner's Riveting Hammer
No. 4A097

Head Weight	Handle	Face	Cutting Edge	Overall Length	Brand	Item No.
Bricklayer's Hammers						
16 oz	Hickory	Smooth	—	11 in	Westward	**6DWK8**
16 oz	Hickory	Smooth	—	11 in	Vaughan	**3NWD7**
20 oz	Tuning Fork Design, Steel w/Molded Rubber Grip	Rim Tempered	—	11 in	STANLEY	**6GRK2**
20 oz	Steel with Vinyl Grip	Smooth	—	11 in	Westward	**2DBU7**
24 oz	Hickory	Smooth	—	11 in	Westward	**6DWK7**
24 oz	Hickory	Smooth	—	11 in	Vaughan	**3NWD8**
24 oz	Hickory	Smooth	—	11 in	STANLEY	**6R289**
24 oz	Steel	Smooth	—	10.75 in	Vaughan	**6CLP3**
Pick Mattocks						
5 lb	Fiberglass w/Ergo Grip	—	—	36 in	Nupla	**3MD48**
Pick Hammer						
22 oz	Steel	Smooth	—	12.75 in	Vaughan	**6CLP2**
Tinner's Riveting Hammers						
12 oz	Hickory	Smooth	—	14 in	Vaughan	**4A097**
16 oz	Fiberglass	Smooth	—	14 in	Vaughan	**4A098**
Welder's Scaling and Chipping Hammers						
12 oz	Hickory	—	—	13.25 in	Vaughan	**4A099**
14 oz	Steel	Smooth	—	11 in	Vaughan	**6CLP4**
15 oz	Steel	Point	—	11 in	Vaughan	**38NF30**


No. 2A531


No. 4R441


No. 4YR68


No. 4GB46

Hammers and Replacement Tips

Quick-Change and Soft-Face Hammers—2 replaceable striking faces (tips) are made of plastic, vinyl, or nylon, and come in a variety of hardnesses. Tip diameters match the size of the hammer and screw onto the hammer head.

Split-Head Hammers—Similar to Soft-Face, however, tips are contained in the split head. To replace tips, the head is disassembled into halves, and the tips are clamped rather than screwed in.

TIP SELECTION GUIDE

Description	Replaces Hammer Type
Soft	Rubber, Wood, Soft Lead, Brass
Medium	Rawhide, Wood, Plastic, Lead
Tough	Rawhide, Hardwood, Plastic
Hard	Rawhide, Plastic, Micarta, Fiber
Extra-Hard	All Metal Working Applications

Head Weight	Tip Dia. (in.)	Tip Type	Brand	Item No.
Dead Blow Hammers w/Tips, Fiberglass with Nonslip Grip Handles				
PVC over Steel Tip				
30 oz.	2"	—	Nupla	4GFZ7
44 oz.	2½"	—	Nupla	4GFZ8
Quick-Change Hammers, Fiberglass Handles				
Without Tips				
6.0 oz.	1	Screw-In	Nupla	2LMY1
9.0 oz.	1	Screw-In	Nupla	6D050
16.0 oz.	1½	Screw-In	Nupla	3MD69
20.0 oz.	1½	Screw-In	Nupla	2LMX9
24.0 oz.	2	Screw-In	Nupla	2LMX8
36.0 oz.	2	Screw-In	Nupla	3MD70
40.0 oz.	2½	Screw-In	Nupla	3MD68
64.0 oz.	3	Screw-In	Nupla	5LV15
96.0 oz.	3	Screw-In	Nupla	5LV16
Quick-Change Hammer Set w/4 Tips, Fiberglass Handles				
Extra-Hard/Hard/Medium/Soft				
16.0 oz.	1½	Extra-Hard/Hard/Medium/Soft	Nupla	1TMZ2
Simplex Mallets w/Tips, Wood Handle				
Plastic/Rubber Tip				
12 oz.	1 9/16"	Medium/Hard	Halder Simplex	3ZLL2
2½ lb.	2"	Medium/Hard	Halder Simplex	3ZLL4
4⅜ lb.	2⅜"	Medium/Hard	Halder Simplex	3ZLL5
Soft-Face Hammers w/Tips, Hickory Handles				
Nylon Tip				
6.0 oz.	1	Soft/Hard	Vaughan	2A528
12.0 oz.	1⅜	Soft/Hard	Vaughan	2A531
Plastic Tip				
8.0 oz.	1 13/64	Tough	STANLEY	6R352
Soft-Face Hammer w/Tips, Fiberglass Handles				
Nonmarring Plastic Tip				
10 oz.	1	Medium/Hard	Proto	4R439
12.0 oz.	1½	Medium/Hard	Proto	4R441
32.0 oz.	2	Medium/Hard	Proto	4R446
Plastic Tip				
20.0 oz.	2 3/16	Round Flat	Proto	16W834
Soft-Face Hammer w/Tips, Steel Handle w/Vinyl Grip				
Synthetic Rubber Tip				
16.0 oz.	1¼	Soft/Hard	Westward	4YR68
Split-Head Hammers w/Tips, Hickory Handles				
Rawhide Tip				
16.0 oz.	1¼	Medium	Vaughan	6CLU0
24.0 oz.	1½	Medium	Vaughan	6CLU1
48.0 oz.	1¾	Medium	Vaughan	4GB46
64.0 oz.	2	Medium	Vaughan	4GB47
112.0 oz.	2¾	Medium	Vaughan	4GB48

Tip Dia. in.)	Tip Material	Color	Item No.
Nonsparking Tips for Nupla Soft-Face Hammers			
Super Soft			
1½	Vinyl	Gray	4GGA6
Medium			
1½	Vinyl	Red	4GGA8
1½	Nylon	Cream	4GGC1
Tough			
37257	Vinyl	Green	4GGA9
Hard			
1½	Nylon	Black	4GGC2
Extra Hard			
1½	Nylon	Yellow	4GGC3
Brass			
1½	Brass	Brass	4GGC4
Tips for Nupla Soft-Face Hammers			
Soft			
1½	Vinyl	Brown	6D052
Medium			
3	Vinyl	Red	5LT98
Medium Hard			
3	Nylon	Cream	5LT99
Medium			
2½	Vinyl	Red	3MD64
2½	Nylon	Cream	3MD65
2	Nylon	Cream	4A117
1½	Vinyl	Red	6D051
1½	Nylon	Cream	4A114
1	Vinyl	Red	6D053
1	Nylon	Cream	6D056
Tough			
3	Vinyl	Green	5LV01
2½	Vinyl	Green	3MD66
2	Vinyl	Green	4A116
1½	Vinyl	Green	4A113
1	Vinyl	Green	6D054
Hard			
3	Nylon	Black	5LT97
2½	Nylon	Black	3MD63
2	Nylon	Black	4A118
1½	Nylon	Black	4A115
1	Nylon	Black	6D055
Extra Hard			
2	Hardened Steel	Steel	3MD62
1½	Nylon	Yellow	2LMX6
1½	Hardened Steel	Steel	3MD61
1	Nylon	Yellow	2LMX5

Tip Dia. in.)	Tip Material	Color	Item No.
Tips for Proto Soft-Face Hammers			
Medium			
2½	Plastic	Cream	4R425
2	Rubber	Red	16W836
Extra Hard			
2	Plastic	Yellow	4R422
Tips for Vaughan Soft-Face Hammers			
Soft			
1⅜	Plastic	Red	2A533
1	Plastic	Red	2A530
Hard			
1⅜	Plastic	Yellow	2A532
1	Plastic	Yellow	2A529
Tips for Vaughan Split-Head Hammers			
Soft			
2¾	Rawhide	Natural	4GB56
2	Rawhide	Natural	4GB55
1¾	Rawhide	Natural	4GB54
1½	Rawhide	Natural	6CLU3
1¼	Rawhide	Natural	6CLU2
Medium			
2¾	Nylon	Clear	4GB62
2	Nylon	Clear	4GB61
1¾	Nylon	Clear	4GB60
1½	Nylon	White	6CLU5
1¼	Nylon	White	6CLU4
Hard			
2¾	Plastic	White	4GB59
2	Plastic	White	4GB58
1¾	Plastic	White	4GB57
1½	Plastic	White	6CLU7
1¼	Plastic	White	6CLU6
Replacement Tips for Halder® Simplex Mallets			
Medium			
2⅜	Rubber	Black	3ZLL9
2	Rubber	Black	3ZLL8
1 3/16	Rubber	Black	3ZLL6
Hard			
2⅜	Plastic	Red	3ZLN4
2⅜	Nylon	White	3ZLN8
2⅜	Soft Metal	Silver	3ZLP3
2	Plastic	Red	3ZLN3
2	Nylon	White	3ZLN7
2	Soft Metal	Silver	3ZLP2
1 3/16	Nylon	White	3ZLN6
1 3/16	Soft Metal	Silver	3ZLP1
1 3/16	Plastic	Red	3ZLN1
1 3/16	Nylon	White	3ZLN5
1 3/16	Soft Metal	Silver	3ZLN9
Replacement Tips for Halder® Supercraft Mallets			
2⅜	Nylon	White	3ZLT3
2	Nylon	White	3ZLT2


No. 24Z026


No. 22XP69

Indestructible Handle Hammers

All handles are rubber molded over spring steel bars. Non-sparking tools feature a copper head, all others heads are carbon steel.

Head Weight	Face Dia.	Overall Length	Item No.
Club Hammers			
2 ½ lb	1 39/64 in	16 in	39CF10
2 ½ lb	2 in	12 in	22XP73
4 lb	2 in	12 in	22XP74
Cross Pein Hammers			
2 ½ lb	1 11/16 in	16 in	24Z039
3 ½ lb	1 7/8 in	16 in	24Z040
Double Face Sledge Hammers			
2 ½ lb	1 7/8 in	12 in	24Z026
2 ½ lb	1 39/64 in	12 in	39CF11
4 lb	1 15/16 in	12 in	24Z027

Head Weight	Face Dia.	Overall Length	Item No.
4 lb	1 45/64 in	12 in	39CF13
6 lb	2 3/16 in	24 in	24Z030
6 lb	2 3/16 in	30 in	24Z031
6 lb	2 5/32 in	30 in	22XP75
8 lb	2 in	16 in	39CF14
8 lb	2 3/8 in	24 in	24Z032
8 lb	2 3/8 in	30 in	24Z033
8 lb	2 23/64 in	30 in	22XP76
8 lb	2 23/64 in	36 in	22XP69
10 lb	2 ½ in	30 in	24Z034
10 lb	2 ½ in	30 in	22XP77

Head Weight	Face Dia.	Overall Length	Item No.
10 lb	2 ½ in	36 in	22XP70
12 lb	2 11/16 in	30 in	24Z035
12 lb	2 21/32 in	30 in	22XP78
12 lb	2 21/32 in	36 in	22XP71
14 lb	2 ¾ in	30 in	24Z036
14 lb	2 57/64 in	36 in	22XP72
Nonsparking Sledge Hammers			
4 lb	1 ⅞ in	12 in	24Z029
8 lb	2 ¼ in	24 in	24Z037
14 lb	2 11/16 in	30 in	24Z038
Sledge Hammer			
6 lb	1 21/32 in	16 in	44ZD52

Sintered Neodymium Disc





Ceramic Ring

GA GRAINGER APPROVED

Disc and Ring Magnets

Max. Pull (lb.)*	Dia.	Thickness	Item No.	Pkg. Qty.
Sintered Neodymium Disc				
2.6	3/16"	0.118"	**2VAE3**	10
2.6	3/8"	0.100"	**2VAE7**	1
2.9	5/16"	0.118"	**2VAE4**	1
4	15/32"	0.118"	**2VAK5**	6
4.6	15/32"	0.118"	**2VAE5**	1
4.9	1/4"	0.250"	**2VAF4**	1
4.9	1/2"	0.125"	**2VAE9**	1
5.0	3/8"	0.200"	**2VAF3**	1
7.2	45/64"	0.118"	**2VAE6**	1
10.9	3/4"	0.187"	**2VAE8**	1
14.5	1"	0.187"	**2VAF1**	1
22.7	1"	0.250"	**2VAF2**	1
Grade 35 Neodymium Disc w/Adhesive				
1	1/4"	0.063"	**10E731**	10
1	1/4"	0.063"	**10E732**	10
1	1/4"	0.063"	**10E762**	12
1.8	3/8"	0.063"	**10E733**	10
1.8	3/8"	0.063"	**10E734**	10
1.8	3/8"	0.063"	**10E763**	12
2.5	1/2"	0.063"	**10E735**	10
2.5	1/2"	0.063"	**10E736**	10
2.5	1/2"	0.063"	**10E764**	8
3.3	3/4"	0.063"	**10E737**	10
3.3	3/4"	0.063"	**10E738**	10
3.3	3/4"	0.063"	**10E765**	6
Grade 35 Neodymium Ring				
1.8	3/8"	0.625"	**10E760**	12
7.3	3/4"	0.125"	**10E761**	3
Grade 42 Neodymium Ring				
6.7	3/4"	0.125"	**10E804**	1
22.6	1"	0.250"	**10E805**	1

Max. Pull (lb.)*	Dia.	Thickness	Item No.	Pkg. Qty.
0.6	1/8"	0.125"	**6YA37**	1
1.4	1/4"	0.100"	**6YA45**	1
2.5	1/4"	0.197"	**6YA13**	5
3	1/4"	0.125"	**6YA33**	1
4.7	3/8"	0.250"	**6YA43**	1
5	3/8"	0.150"	**6YA15**	5
7.3	1/2"	0.187"	**6YA41**	1
9.7	1/2"	0.250"	**6YA39**	1
15	1/2"	0.375"	**6YA47**	1
Steel Disc w/Adhesive				
—	1/2"	—	**10E739**	10
Sintered Neodymium Iron Boron Disc				
0.3	1/8"	0.125"	**6YA21**	1
1	1/4"	0.100"	**6YA25**	1
2.8	1/4"	0.100"	**6YA29**	1
4	1/2"	0.187"	**6YA23**	1
5	1/2"	0.187"	**6YA31**	1
Ceramic 5 Ring				
2.4	1 3/4	0.25"	**10E784**	2
4.4	2 23/64"	0.331"	**10E795**	1
9.8	4 35/64"	0.406"	**10E797**	1
1.3	1 1/4"	0.187"	**10E794**	1
Ceramic 8 Ring				
0.4	1 1/16"	0.125"	**10E783**	6
Ceramic 8 Block				
0.5	1/2"	0.187"	**10E780**	40
Ceramic 8 Disc				
0.8	3/4"	0.197"	**10E781**	51

Ceramic Clip Magnets

GA GRAINGER APPROVED

Description	Dia. (in.)	Item No.
C-Clip, Chrome Clip	2.035	**3DYA1**
Channel Clip	2.035	**3DXZ9**
Belt Clip	2	**3DXZ7**
Chrome-Plated	1	**3DXY4**
Chrome-Plated, Pk. of 2	1	**3DXY5**



No. 3DYA1



No. 3DXY5

Ceramic Channel Magnets

GA GRAINGER APPROVED

Each magnet will lift, suspend, hold, and retrieve metal objects up to 100 times its own weight.

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
3	3/4"	3/4"	0.25"	1/8"	**3DYC5**
5	1"	1/8"	0.250"	1/8"	**3DYC8**
7	1"	1/8"	0.25"	1/8"	**3DYC3**
7	1"	1/8"	0.25"	1/8"	**3DYC4** ***
22	3"	9/10"	0.25"	—	**3DYA7**
22	3"	9/10"	0.25"	3/8"	**3DYA8** †
25	2 45/64"	1 19/64"	0.500"	3/16"	**3DYC1**
25	8"	1 1/16"	0.500"	9/32"	**3DYC2**



No. 3DYC3

** Pull strength or max. pull (lb.) is measured under ideal situations in a controlled environment. Results will vary with differences in surface, texture, thickness, and temperature variations. † Includes 3/8-24 nut. *** Pk. of 2.*

Ceramic Latch Magnets

GA GRAINGER APPROVED

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Bipolar in Plastic w/Latch Plate					
50	4.2"	0.94"	1.13"	—	**3DYF1**
Bipolar in Steel w/2 Holes					
20	3"	3/4"	0.562"	1/4"	**3DYE7**
50	3"	3/4"	1.062"	1/4"	**3DYE8**
Zinc-Plated					
12	1"	13/16"	0.312"	3/16"	**3DYC7**



No. 3DYF1

GA GRAINGER APPROVED

Ceramic Handle Magnets

Max. Lifting Capacity*	L	W	H	Item No.
50 lb.	2"	3/4"	1"	**3DYD6**
100 lb.	4"	3/4"	1"	**3DYD7**
100 lb.	5"	1"	1.175"	**38HY86**
150 lb.	5"	2"	1"	**3DYD8**
225 lb.	5 1/4"	2"	2"	**3DYD9**



No. 3DYD8



No. 6XY89



No. 6YA66



No. 3DXZ6

GA GRAINGER APPROVED

Round Base Magnets

Material	Max. Pull (lb.)*	Dia.	Thickness	Hole Dia.	Item No.
Shallow Pot					
Alnico 5	7	3/4"	0.313"	9/64"	**6XY93**
Alnico 5	11	1 1/8"	0.343"	3/16"	**6XY95**
Alnico 5	29	1 1/2"	0.400"	3/16"	**6XY97**
Round Base					
Neodymium	22	1 1/4"	0.188"	1/8"	**10E851**
Neodymium	105	2 1/32"	0.313"	1/4"	**10E852**
Neodymium	160	2 5/8"	0.375"	1/4"	**10E853**
Lifting and Retrieving					
Ceramic	11	1 1/4"	0.187"	1/8"	**10E773**
Ceramic	200	4 9/10"	0.5"	1/2"	**10E725**
Encased Work Holding					
Ceramic	11	1 1/4"	0.187"	1/8"	**10E850**
Encased Round Base					
Synthetic Rubber/Strontium Ferrite	4	1.21"	0.171"	—	**3DXX6**
Ceramic	16	1 27/64"	0.283"	3/16"	**3DXX8**
Ceramic Ferrite	16	1 3/5"	0.283"	3/16"	**6XY85**
Ceramic Ferrite	25	2"	0.315"	1/5"	**6XY87**
Ceramic	25	2"	0.375"	1/5"	**8VU65**
Neodymium	48	1 3/5"	0.265"	1/5"	**3DXX9**
Ceramic Ferrite	65	2 39/64"	0.375"	1/4"	**6XY89**
Ceramic Ferrite	95	3 1/5"	0.425"	9/32"	**6XY91**
Disc					
Ceramic	12	1 1/10"	0.3"	1"	**3DXX7**



No. 3DXY2

Description	Max. Pull (lb.)*	Dia.	Thickness	Item No.
Eyebolt				
Ceramic	25	2"	1/4"	**3DYA2**
Ceramic Ferrite in Steel Cup	95	3.20"	1/2"	**6YA66**
Neodymium	90	2"	1/4"	**3DYA3**
Threaded Post				
Ceramic	95	3.20"	1/2"	**2VAF8**
Ceramic, w/3 Nuts	35	2.03"	1/4"	**3DYA4**
Ceramic, w/3 Nuts	65	2.65"	1/2"	**3DYA6**
Neodymium, w/3 Nuts	90	2.03"	1/4"	**3DYA5**
Plain Post				
Ceramic, White	14	1.25"	1/4"	**3DXZ1**
Hook				
Ceramic, White	9	1.00"	5/16"	**3DXY6**
Ceramic, White Pk. of 2	9	1.00"	1/4"	**3DXY7**
Ceramic, White	14	1.25"	1/4"	**3DXY8**
Ceramic, White Pk. of 2	14	1.25"	1/4"	**3DXY9**
Ceramic, White	26	1 1/8"	1/4"	**3DXZ5**
Ceramic, White	55	2 3/4"	1/2"	**3DXZ6**
Ceramic, Chrome	65	2.63"	3/8"	**3DXZ2**
Ceramic Ferrite in Steel Cup, Chrome	20	2.04"	1/4"	**6YA67**
Ceramic, Reversible Hook	25	2.25"	—	**10E727**
Neodymium, White	61	1 1/4"	1/2"	**3DXZ4**
Neodymium, Chrome	40	1.42"	1/4"	**3DXY3**
Neodymium, Swivel Hook	65	1.50"	1/2"	**10E831**
Ring				
Neodymium, Carabiner	45	1.12"	1/4"	**3DXY2**
Neodymium Key Ring	—	—	—	**3DXY1**
Transparent White Rubber Boot Cover				
2 5/8" Dia., For Use With 6XY89 (RB70) Round Base Ring Magnet	—	—	—	**10E775**
2 1/32" Dia., For Use With 6XY87 (RB50) Round Base Ring Magnet	—	—	—	**10E776**

GA GRAINGER APPROVED

Magnetic Latch Sets



No. 2VAG1

Designed for use as door latches for cabinets, display cases, or other closures.

Max. Pull (lb.)*	Dia. (in.)	Thickness (in.)	Item No.
Ring Sets			
23	Ring 0.740 Outer x 0.375 Inner, Cup and Strike Plate 0.875	Ring 0.105, Cup 0.281, Strike Plate 0.156	**2VAG2**
30	Ring 1.000 Outer x 0.500 Inner, Cup and Strike Plate 1.130	Ring 0.110, Cup 0.270, Strike Plate 0.150	**2VAG3**
Disc Sets			
6	Disc 0.360, Cup and Strike Plate 0.500	Disc 0.075, Cup 0.250, Strike Plate 0.094	**2VAF9**
16	Disc 0.490, Cup and Strike Plate 0.625	Disc 0.105, Cup 0.094, Strike Plate 0.0250	**2VAG1**

Alnico Horseshoe Magnets

GA GRAINGER APPROVED

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
2	1"	1 1/8"	0.339"	—	**6XY47**
10	29/32"	1 3/16"	0.780"	13/64"	**6XY53**
22	1"	1 3/16"	1"	13/64"	**6XY57**
30	1 3/16"	1 51/64"	1.180"	13/64"	**6XY59**
32	1 5/16"	2 3/16"	1.812"	13/64"	**6XY61**
37	1 5/16"	2 7/16"	2"	7/11"	**6XY49**
50	1 5/16"	3"	2.500"	3/16"	**6XY51**
70	1 7/8"	2 1/2"	1.900"	3/16"	**6XY55**



No. 6XY53

** Pull strength or max. pull (lb.) is measured under ideal situations in a controlled environment. Results will vary with differences in surface, texture, thickness, and temperature variations.*



No. 6YA17



No. 10E806

GA GRAINGER APPROVED

Flexible Magnetic Strips and Sheets

Max. Pull (lb.)*	L	W	Item No.
39	100 ft.	3"	2VAK1
Plain Surface, No Adhesive or Vinyl			
Strips			
12	100 ft.	1"	2VAH5
13	100 ft.	1"	10E824
13	100 ft.	1"	10E825
24	100 ft.	2"	2VAH6
Sheets			
85	10 ft.	24⅜"	10E809
145	10 ft.	24⅜"	10E812
White Vinyl on Nonmagnetic Side			
Strips			
6.8	200 ft.	1"	2VAH9
13	100 ft.	1"	2VAH7
13.6	200 ft.	2"	2VAJ1
24	100 ft.	2"	2VAH8
27.2	200 ft.	4"	2VAJ2
Sheets			
85	10 ft.	24⅜"	10E806
85	25 ft.	24⅜"	10E807
85	50 ft.	24⅜"	10E808
145	10 ft.	24⅜"	10E810
145	25 ft.	24⅜"	10E811
Magnet-to-Magnet Kits			
6	100 ft.	½"	10E827
13	100 ft.	1"	10E826

Max. Pull (lb.)*	L	W	Item No.
Indoor Adhesive on Nonmagnetic Side			
Strips			
6	10 ft.	½"	6YA17
6	100 ft.	½"	6YA19
12	100 ft.	1"	2VAJ3
12	10 ft.	1"	6XY43
12	100 ft.	1"	6XY45
18	100 ft.	1½"	2VAJ4
24	10 ft.	2"	6YA64
24	100 ft.	2"	2VAJ5
24	100 ft.	2"	6YA65
39	100 ft.	3"	2VAJ6
Outdoor Adhesive on Nonmagnetic Side			
Strips			
13	100 ft.	1"	2VAJ7
18	100 ft.	1½"	2VAJ8
26	100 ft.	2"	2VAJ9



No. 6XY81



No. 10E848



No. 2VAF7

GA GRAINGER APPROVED

Magnet Assemblies

- See Grainger.com® for included hardware

Max. Pull (lb.)*	Thickness	Dia.	Item No.
Alnico Magnet Assemblies			
¼-20 Thread			
5	0.625 in	11/16 in	6XY77
10	0.75 in	13/16 in	6XY79
18	1.0 in	1 1/16 in	6XY81
35	1.187 in	1 3/8 in	6XY83
Shielded, Brass Cup			
0.14	0.5 in	¼ in	10E848
0.225	0.5 in	½ in	10E849
Neodymium Magnet Assemblies			
Shielded, Brass			
1.5	0.5 in	¼ in	10E836
7	0.5 in	½ in	10E832
Aluminum Pot			
0.7	0.5 in	¼ in	10E840
26	0.75 in	1 ¼ in	10E843
145	1 in	3 in	10E841

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Ceramic Magnet Assemblies					
Tool Holders					
480	24"	1-1/11"	1 5/8 in	¼"	2VAF5
Lifting/Retrieving					
40	2 in	2 in	0.6 in	¼ in	10E861
100	2 in	2 in	—	¼ in	6YA69
100	6 in	¾ in	—	¼ in	6YA68
150	5 in	2 in	2 in	¼-20	2VAF6
225	5 in	2 in	2 in	¼-20	2VAF7
Latch					
40	2 in	1 5/8 in	1 in	7/32 in	10E828
22	1 in	2 in	0.5 in	¼ in	10E829

Description	Item No.
Accessories	
Magnetic Clip	
Red, 3 ½ in	10E857
Magnetic Cup Caddy	
Black, 3 ½ in" Dia.	10E749
Red, 3 ¼ in" Dia.	10E750
Magnetic Parts Trays	
Stainless Steel, 1½ H x 6 In D	10E751
Stainless Steel, 5½ L x 9½ W x 1½ H	10E752



Ceramic Round w/Knob



Ceramic Tool Holding w/2 Screws



Ceramic Work Holding w/2 Holes

GA GRAINGER APPROVED

Holding Magnets

Max. Pull (lb.)*	Dia.	Thickness	Hole Dia.	Item No.
Alnico 5 Round				
4	¾"	0.5"	2/11"	6XY65
6.5	1"	0.625"	7/32"	6XY67
14	1¼"	0.750"	9/16"	6XY69
18.5	1½"	0.875"	¼"	6XY71
Ceramic Round w/Knob				
16	1 1/16"	0.283"	—	3DXW6
25	2"	0.315"	—	3DXW7
65	2⅝"	0.374"	—	3DXW8
95	3 13/64"	0.425"	—	3DXW9

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Ceramic Magnet, Vinyl Handle Rectangular w/Knob					
45	2⅜"	3"	0.585"	—	3DXX5
Ceramic Rectangular w/Knob					
15	1⅗"	1⅜"	0.65"	—	3DXX2
38	2"	1-8/13"	0.65"	—	3DXX3
40	2⅜"	1⅝"	0.56"	—	3DXX4
Ceramic Tool Holding w/2 Screws					
20	1⅛"	13"	—	¼"	3DYE5
20	1⅛"	18"	—	¼"	3DYE6
20	1⅛"	24"	—	¼"	3DYE4
100	1⅛"	6"	7/9"	¼"	3DYE3
Ceramic Work Holding w/2 Holes					
40	3¼"	⅛"	1.33"	2/7"	3DYC9
65	5¼"	⅛"	1⅓"	2/7"	3DYD2
120	3⅛"	1¼"	1⅜"	¼"	3DYD3
250	5¼"	1⅞"	2.125"	2/7"	3DYD4



Alnico 5 Bar
No. 6XY75



Neodymium Block
No. 10E799



Neodymium Sphere
No. 10E787

GA GRAINGER APPROVED

Rod, Bar, Block, and Sphere Magnets

Max. Pull (lb.)*	Dia.	Overall Length	Overall Width	Thickness	Item No.	Pkg. Qty.
Alnico 5 Bar						
0.4	—	3"	25/64"	0.593"	6XY75	2
Ceramic 5 Block						
1	—	1"	¾"	0.2"	10E791	1
3	—	1⅛"	⅛"	0.25"	10E793	1
0.6	—	⅛"	¼"	0.187"	10E779	8
2.8	—	1⅛"	⅜"	0.375"	10E778	2
3	—	1⅛"	⅛"	0.375"	10E777	2
3.2	—	1⅛"	⅛"	0.393"	10E790	1
Grade 8 Ceramic Latch						
3.1	—	1⅛"	⅛"	0.375"	2VAL2	2
Ceramic 8 Block						
10.6	—	6"	2"	0.5"	10E788	1
15	—	6"	4"	0.5"	10E789	1
30	—	6"	4"	1.000"	10E792	1
Grade 35 Neodymium Block						
43.9	—	1"	1"	0.5"	10E799	1
43.9	—	2"	½"	0.5"	10E803	1
Grade 35 Neodymium Sphere						
12.3	¾"	—	—	—	10E787	1



No. 10E816

H	W	Item No.	Pkg. Qty.
Magnetic Pouches			
6½"	4¾"	10E816	1
6½"	6½"	10E817	1
12"	9½"	10E818	1
Magnetic Document Holder			
8½"	11"	10E819	1
Magnetic Photo Pockets			
3½"	5"	10E820	2
4"	6"	10E821	2

GA GRAINGER APPROVED

Magnetic Pouches and Holders

H	W	Item No.	Pkg. Qty.
Label Holders			
1"	1"	10E822	100
2"	2"	10E823	100
Business Card Magnets			
3½"	2"	10E854	25
3½"	2"	10E855	50
3½"	2"	10E856	100

L (in.)	W (in.)	Item No.	Pkg. Qty.
Data Card Holders			
6	0.95	2VAK2	25
6	1.83	2VAK3	25
5	3.125	2VAK4	25

** Pull strength or max. pull (lb.) is measured under ideal situations in a controlled environment. Results will vary with differences in surface, texture, thickness, and temperature variations.*

WILTON ★ WESTWARD
PALMGREN INC RIDGID

Combination Vises

- Replacement jaws and magnetic caps are available on Grainger.com

These vises combine the features of bench vises and pipe vises to securely clamp straight workpieces and irregular-shaped workpieces, as well as round tubing and pipe.



No. 29YW07



No. 24W175



No. 3FDJ1

Jaw Width	Max. Opening	Throat Depth	Base Type	Pipe Jaw Included	Pipe Capacity	Reversible	High Visibility	Swivel Angle	Jaw Face	Brand	Item No.	
Light Duty, 20,000 psi Body Casting Tensile Strength												
5"	5"	2½"	Swivel	No	—	No	No	360°	Serrated	Wilton	**29YW07**	
6"	6"	3"	Swivel	No	—	No	No	360°	Serrated	Wilton	**29YV61**	
Standard Duty, 30,000 psi Body Casting Tensile Strength												
2½"	2⅛"	1¾"	Swivel	No	—	No	No	45°	Serrated	Wilton	**5LK54**	
3"	3"	—	Clamp-On Swivel	Yes	⅜"	No	No	360°	Smooth	Wilton	**29YW78**	
3½"	3½"	2"	Swivel	Yes	⅝" to 1 3/16"	No	No	360°	Serrated	Westward	**10D702**	
4"	2¼"	2"	Swivel	No	—	No	No	45°	Serrated	Wilton	**5LK53**	
4"	4"	2"	Swivel	Yes	⅝" to 1 3/16"	No	No	360°	Serrated	Westward	**10D701**	
4"	4"	2¾"	Swivel	Yes	⅛" to 2"	No	No	360°	Serrated	Westward	**4YR98**	
4"	4"	2¾"	Swivel	Yes	⅝" to 2"	No	No	360°	Serrated	Wilton	**24W174**	
4"	4½"	3 7/16"	Swivel	Yes	¼" to 2"	No	No	360°	Serrated	Wilton	**2Z474**	*
4"	4½"	3 7/16"	Swivel	Yes	¼" to 2"	No	No	360°	Serrated	Westward	**10D708**	
4½"	4"	2½"	Swivel	Yes	⅛" to 1½"	No	No	180°	Serrated	Westward	**10D710**	
5"	4"	3½"	Swivel	Yes	⅜" to 3"	No	No	360°	Serrated	Westward	**4YT10**	
5"	5"	2½"	Swivel	Yes	½" to 1¼"	No	No	360°	Serrated	Westward	**4YP27**	
5"	5"	3"	Swivel	Yes	⅝" to 2⅜"	No	No	360°	Serrated	Wilton	**24W175**	
5"	5¼"	3¾"	Swivel	Yes	¼" to 2½"	No	Yes	360°	Serrated	Wilton	**5LJ84**	
5"	5¼"	3¾"	Swivel	Yes	¼" to 2½"	No	No	360°	Serrated	Wilton	**2Z346**	
5"	5¼"	3¾"	Swivel	Yes	⅜" to 2½"	No	Yes	360°	Serrated	Westward	**10D693**	
5"	5¼"	3¾"	Swivel	Yes	⅜" to 2½"	No	No	360°	Serrated	Westward	**10D707**	
5"	5½"	3¾"	Swivel	Yes	¼" to 2½"	No	No	360°	Serrated	Westward	**45W333**	
5½"	5"	3¼"	Swivel	Yes	¼" to 2"	No	No	360°	Serrated	Wilton	**55EN83**	
5½"	5½"	3¾"	Swivel	Yes	¼" to 3"	No	No	360°	Serrated	Westward	**10D711**	
6"	5¾"	4⅛"	Swivel	Yes	¼" to 3½"	No	No	360°	Serrated	Wilton	**1ATH4**	
6"	5¾"	4⅛"	Swivel	Yes	¼" to 3½"	No	Yes	360°	Serrated	Wilton	**5LJ85**	
6"	5¾"	4½"	Swivel	Yes	⅜" to 2½"	No	Yes	360°	Serrated	Westward	**10D692**	
6"	6"	3½"	Swivel	Yes	⅝" to 2½"	No	No	360°	Serrated	Wilton	**24W176**	
6"	8"	3 5/16"	Swivel	No	1" to 2"	No	No	360°	Serrated	Westward	**49NU02**	
6½"	5½"	3 13/16"	Swivel	No	⅛" to 2½"	No	Yes	180°	Serrated	Wilton	**54TU07**	
6½"	6"	4"	Swivel	Yes	¼" to 2"	No	No	360°	Serrated	Wilton	**55FE57**	
6½"	6"	4¼"	Swivel	Yes	¼" to 3½"	No	No	360°	Serrated	Wilton	**55EN84**	
6½"	7½"	4"	Swivel	Yes	¼" to 3"	Yes	No	360°	Serrated	Wilton	**55FF53**	
8"	8"	3½"	Swivel	Yes	⅜" to 3"	No	No	360°	Serrated	Westward	**6RA23**	
8"	8"	4"	Swivel	Yes	¾" to 3"	No	No	360°	Serrated	Wilton	**24W177**	
8"	8¼"	4½"	Swivel	Yes	⅜" to 4"	No	No	360°	Serrated	Wilton	**55FF52**	
8"	8¼"	4⅝"	Swivel	Yes	⅜" to 2½"	No	No	360°	Serrated	Westward	**10D709**	
8"	9¼"	4¾"	Swivel	Yes	⅜" to 4"	Yes	No	360°	Serrated	Wilton	**55EK36**	
Heavy Duty, 60,000 psi Body Casting Tensile Strength												
4"	4"	2¼"	Swivel	Yes	—	No	No	120°	Serrated	Wilton	**29YW53**	
5"	5"	3⅜"	Stationary	No	¼" to 3"	No	No	—	Serrated	Westward	**3FDJ1**	
5"	6"	3½"	Swivel	Yes	¼" to 2½"	No	No	360°	Serrated	Palmgren	**19D152**	
5½"	5½"	3¾"	Swivel	Yes	¼" to 3"	No	No	360°	Serrated	Westward	**10D712**	
6"	6"	3"	Swivel	Yes	1" to 2½"	No	No	360°	Serrated	Westward	**3FDG9**	
6"	6"	3"	Swivel	Yes	1" to 2"	No	No	360°	Serrated	Westward	**10D695**	
6"	7"	3¾"	Swivel	Yes	¼" to 3½"	No	No	360°	Serrated	Palmgren	**19D153**	
7"	8"	3"	Swivel	Yes	1" to 2"	No	No	360°	Serrated	Westward	**10D694**	
Heavy Duty, 75,000 psi Body Casting Tensile Strength												
4½"	6"	3"	Swivel	Yes	⅜" to 3"	No	No	360°	Serrated	Ridgid	**3AFP5**	

Deep Throat

RIDGID

Heavy-Duty Machinist's Vises

- Body casting tensile strength: 60,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Designed for cutting and welding parts or shaping materials, these vises feature replaceable steel serrated jaws, extra large bodies, larger throat openings, anvils, 360° swivel jaws, and swivel bases.



No. 3AFP6



No. 4WN27

Jaw Width	Max. Opening	Throat Depth	Deep Throat	Pipe Jaw Included	Pipe Capacity	Item No.
5"	7"	3⅝"	No	Yes	½" to 3½"	**4WN28**
5"	8"	3½"	No	Yes	½" to 3½"	**3AFP6**
6"	6"	4"	No	Yes	½" to 4"	**4WN29**
4½"	6"	3"	No	Yes	⅜" to 3"	**4WN27**



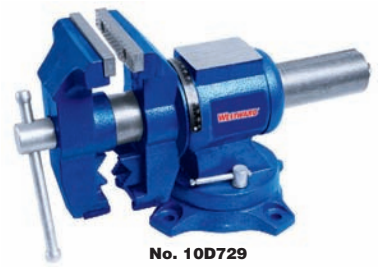
WESTWARD

Light-Duty Multi-Angle Vise

- Body casting tensile strength: 20,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Allow positioning in 3 planes: you can tilt, turn, and rotate your workpieces with the simple turn of a handle. Applications include electronics and wood carving. Feature vacuum base and 360° swivel rotation.

Jaw Width	Max. Opening	Throat Depth	Construc.	Item No.
2¾"	2⅝"	1⅜"	Aluminum Alloy	**3FDH8**



No. 10D729

PALMGREN WILTON

Standard-Duty Multijaw Rotating Vises

- Body casting tensile strength: 30,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Jaws rotate 360° degrees for clamping at any angle and are equipped with replaceable jaws for a variety of applications. Swivel base.

Jaw Width	Max. Opening	Throat Depth	Deep Throat	Pipe Capacity	Brand	Item No.
5"	4"	3½"	No	¼" to 3½"	Palmgren	**19D159**
5"	5½"	3¼"	No	¼" to 2"	Westward	**10D729**



No. 10D698



No. 6YA71

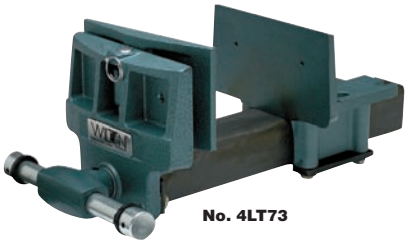
WILTON WESTWARD

Standard-Duty Portable Vises

- Body casting tensile strength: 30,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Clamp directly onto the work bench. These vises are ideal for very light-duty work with smaller workpieces. They can be positioned vertically and horizontally and can be removed after use to save valuable space or transport to another work location.

Jaw Width	Max. Opening	Throat Depth	Base Type	Pipe Jaw Included	Pipe Capacity	Swivel Angle	Jaw Face	Brand	Item No.
2½"	2⅛"	1¾"	Clamp-On Swivel	No	—	45°	Serrated	Wilton	**5LK42**
2½"	2½"	1¼"	Clamp-On Stationary	Yes	⅝" to 1³⁄₁₆"	—	Serrated	Westward	**10D698**
3"	2½"	2⅝"	Clamp-On Stationary	Yes	⅜"	360°	Smooth	Wilton	**6YA71**
3"	3"		Clamp-On Swivel	Yes	⅜"	360°	Smooth	Wilton	**29YW78**
4"	2¼"	2"	Clamp-On Swivel	Yes	—	45°	Serrated	Wilton	**5LK41**



No. 4LT73

WESTWARD WILTON

Woodworking Vises

- Replacement jaws and magnetic caps are available on Grainger.com

Large jaws distribute pressure while securely clamping wood workpieces. The design allows for clamping both horizontally and vertically. Models with smooth jaws help to prevent marring. Ideal for general woodwork and carpentry.

Jaw Width	Max. Opening	Throat Depth	Base Type	Swivel Angle	Jaw Face	Brand	Item No.
Light Duty							
7"	7⅛"	3"	Stationary	—	Smooth	Westward	**10D722**
7"	8"	3"	Stationary	—	Smooth	Westward	**10D721**
9"	10"	4"	Stationary	—	Smooth	Westward	**10D723**
10½"	12"	4"	Stationary	—	Smooth	Westward	**10D724**
Standard Duty							
6½"	4½"	3"	Stationary	360°	Smooth	Wilton	**24U987**
7"	10"	4"	Stationary	—	Serrated	Wilton	**4LT73**
10"	13"	4"	Stationary	—	Serrated	Wilton	**41D418**



No. 20PD96

WILTON

ATV All Terrain Vise

Lightweight all-terrain vise is designed for easy transport with an integrated carrying handle. Fits a standard 2-in. hitch (hitch pin included). Innovative mounting bracket allows you to mount the vise to a bench or trailer for greater versatility. The innovative 360° locking handle secures the handle while driving or repositions it while working. Set screws provide a tight fit in the hitch and reduce vibration while driving. Jaws include a V-groove for vertical clamping of round objects. Pipe jaws clamp objects up to 3 in.

Jaw Width	Max. Opening	Throat Depth	Pipe Cap.	Item No.
5"	6"	5"	¾" to 3"	**49XF29**
6"	5¾"	5"	¾" to 3"	**20PD96**
6"	6"	5"	¾" to 3"	**49XF30**
Additonal Mounting Bracket, Ductile Iron				**20PD97**

PANAVISE® ★ WESTWARD® PALMGREN INC

Multi-Angle Vises

These vises are designed around interchangeable bases, base mounts, and heads. Available as preselected combinations or as a combination you custom make for your own work station. They allow you to tilt (180°), turn (360°), and rotate (360°) all from a single knob.



No. 3KZJ9

Description	Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Brand	Mfr. Model	Item No.
Vise Combinations - Head, Base & Base Mount							
PanaVise Jr. Mini	1"	2⅞"	2"	⅛" to 3"	Panavise	201	**3KZK4**
Standard Swivel	2½"	2¼"	1⅜"	1" to 2"	Panavise	301	**3KZJ9**
Vacuum Base	2½"	2¼"	1⅜"	1" to 2"	Panavise	381	**3KZK2**
Vacuum Base Jr.	1"	2⅛"	2"	2½"	Panavise	209	**40N526**
Wide Opening Jaw	6"	6"	1 55⁄64"	½" to 3½"	Panavise	396	**3KZK6**
Self-Centering Wide Opening Jaw	1 13⁄16"	9¼"	1 9⁄16"	1"	Panavise	350	**40N553**
Electronics Work Station	5⁄16"	12"	6 3⁄16"	—	Panavise	324	**3KZK8**
Micrometer Multi-Angle Vise	⅞"	½"	1⅜"	—	Panavise	391	**40N565**
Vacuum Multi-Angle Vise	2¾"	2⅜"	1⅜"	—	Westward	—	**3FDH8**
Multi-Jaw Rotating Vise	5"	4"	3½"	¼" to 3½"	Palmgren	MJ50	**19D159**

Description	H	W	Mfr. Model	Item No.
Panavise Bases, Heads, and Jaws				
Swivel Base	3¾"	5"	300	**40N528**
Swivel Base, Heavy-Duty	3 9⁄16"	4 9⁄32"	400	**40N567**
Swivel Vacuum Base	3½"	4½"	380	**40N561**
Weighted Base Mount	1 1⁄32"	7½"	308	**40N533**
Clamp-On Base Mount	10⅛"	4 9⁄16"	311	**40N535**
Tray Base Mount	½"	8 7⁄16"	312	**40N536**
Magnetic Base Mount	7⁄16"	5"	335	**40N547**
Vise Head, Wide Opening	5⅛"	1⅞"	366	**40N558**
Vise Head, Self-Centering Extra Wide Opening	5¼"	1 13⁄16"	376	**40N560**
Fixturing Head	—	—	337	**40N548**
Heavy Duty Fixturing Head	—	—	437	**40N568**
Vise Head, Circuit Board Holder	10⅞"	14"	315	**40N537**
Vise Buddy Jr., Bench Vise Attachment	8⅜"	1½"	207	**40N525**
Replacement Jaws	—	—	343	**40N549**
Replacement Grooved Jaws	—	—	344	**40N550**
Replacement Jaws, High Heat TFE	—	—	352	**40N554**
Replacement Jaws, Plated Steel	—	—	353	**40N555**
Replacement Jaws, Brass	—	½"	354	**40N556**
Replacement Jaw Pad	—	—	346	**40N551**
Replacement Jaw Pad, Nonmarking	—	—	346NM	**40N552**
Wire Manager	—	—	358	**40N557**

★ WESTWARD® BESSEY

I Beam Bar, I Bar, and Parallel Clamps



No. 10D590

I Bar—Feature a rapid-acting clamp locking device. Compressed metal pawl engages in notches which are ¾" apart in web of slide.
- 3500 lb. load capacity

Parallel—Suitable where high pressure 90° clamping or spreading is required. Convert from a clamp to spreader without tools. Include jaw face pads, rail protector pads, and removable end stops.
- 1500 lb. clamping force

I Beam—Will not bend or twist like other clamps. Features tough, powder-coated ductile castings, corrosion-resistant nickel-plated rail, 5 strong clutch plates to aid with gripping the bar stock, strong crank handle, ACME threaded screws with 9⁄16" spindle dia., and large, easy-grip handles.

Max. Jaw Opening (in.)	Throat Depth (in.)	Clamp Face (in.)	Brand	Item No.
I Bar Clamps				
24	1¾	1 23⁄32 x 1⅞	Westward	**10D588**
36	1¾	1 23⁄32 x 1⅞	Westward	**10D590**
48	1¾	1 23⁄32 x 1⅞	Westward	**10D591**
60	1¾	1 23⁄32 x 1⅞	Westward	**10D592**
72	1¾	1 23⁄32 x 1⅞	Westward	**10D593**
Parallel Clamps				
12	3¾	2 x 3¾	Bessey	**450G39**
24	3¾	2 x 3¾	Bessey	**450G40**
31	3¾	2 x 3¾	Bessey	**450G41**
40	3¾	2 x 3¾	Bessey	**450G42**
50	3¾	2 x 3¾	Bessey	**450G43**
I-Beam Bar Clamps				
24	2	2 x 2	Bessey	**450G44**
30	2	2 x 2	Bessey	**450G45**
36	2	2 x 2	Bessey	**450G46**
48	2	2 x 2	Bessey	**450G47**
60	2	2 x 2	Bessey	**450G48**
72	2	2 x 2	Bessey	**450G49**
84	2	2 x 2	Bessey	**450G50**
96	2	2 x 2	Bessey	**450G51**
Parallel Clamp Accessories				
K Body Extender, Connect 2 for extended reach			Bessey	**5HXP7**
Pivot Jaws, Pk. of 2			Bessey	**5HXP8**
Jaw Protectors, Pk. of 2			Bessey	**5HXP9**
Table Mount Clamps				
Clamp-On Vise Base, 1 pair			Bessey	**5HXR3**

IRWIN® QUICK-GRIP® BESSEY



No. 52LA96

Bar Clamps and Spreaders

IRWIN 1-HANDED QUICK-CLAMP® CLAMPS AND BAR CLAMPS/SPREADERS

Manufactured with high-tension I-beams and high-tech resin. Quick-change screw to maneuver from clamp to spreader. Large, removable resin pads. Quick-release trigger.

BESSEY 1-HANDED BAR CLAMPS/SPREADERS

Turn a dial to change function from clamping to spreading. Large, flat clamping jaws have soft pads. Squeeze-molded handle for clamping/spreading.

BESSEY CLUTCH-STYLE BAR CLAMPS

2-pc. clutch plates and nickel-plated serrated rail with ergonomic wood handle help enable clamping in tight spaces. Powder-coated ductile cast-iron jaws have nonmarring pads. Double-Head Clamps provide 3-point clamping for extra stability.

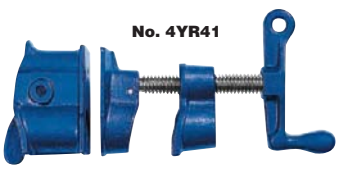
BESSEY GSM SERIES BAR CLAMP SET NO. 44ZL53

Clamps have 2660-lb. nominal change pressure. Set includes 2 of Mfr. No. GSM20, 2 of Mfr. No. GSM30, and 2 of Mfr. No. GSM40.

Cap. (in.)	Throat Depth (in.)	Spreading Range (in.)	Brand	Mfr. Model	Item No.
1-Handed Bar Clamps/Spreaders					
4 ¼ in	1 3⁄16 in	4 to 8	Irwin Quick-Grip	1964746	**52LA99**
6 in	2 7⁄16 in	—	Irwin Quick-Grip	1964743	**52LC03**
6 in	3 ¼ in	3 to 9	Bessey	DUO16-8	**6XE59**
6 in	3 ½ in	6 ½ to 13 ½	Bessey	EZS15-8	**19C743**
6 in	3 ¼ in	7 ½ to 13 ⅜	Irwin Quick-Grip	1964717	**52LA94**
6 in	3 ⅝ in	9 ¼ to 14 ⅞	Irwin Quick-Grip	1964711	**52LA88**
12 in	2 7⁄16 in	—	Irwin Quick-Grip	1964745	**52LC02**
12 in	3 ¼ in	3 to 14 ½	Bessey	DUO30-8	**6XE60**
12 in	3 ½ in	6 ½ to 19 ½	Bessey	EZS30-8	**19C744**
12 in	3 ¼ in	7 ½ to 13 ⅜	Irwin Quick-Grip	1964718	**52LA95**
12 in	3 ⅝ in	9 ¼ to 20 ⅞	Irwin Quick-Grip	1964712	**52LA89**
18 in	3 ¼ in	3 to 18 ½	Bessey	DUO45-8	**6XE61**
18 in	3 ½ in	6 ½ to 25 ½	Bessey	EZS45-8	**19C745**
18 in	3 ¼ in	7 ⅞ to 25 ⅜	Irwin Quick-Grip	1964719	**52LA96**
18 in	3 ⅝ in	9 ¼ to 26 ⅞	Irwin Quick-Grip	1964713	**52LA90**
24 in	3 ¼ in	3 to 25 ½	Bessey	DUO65-8	**6XE62**
24 in	3 ½ in	6 ½ to 31 ½	Bessey	EZS60-8	**19C746**
24 in	3 ¼ in	7 ⅞ to 31 ⅜	Irwin Quick-Grip	1964720	**52LA97**
24 in	3 ⅝ in	9 ¼ to 32 ⅞	Irwin Quick-Grip	1964714	**52LA91**
36 in	3 ½ in	6 ½ to 43 ½	Bessey	EZS90-8	**19C747**
36 in	3 ¼ in	7 ½ to 43 ¼	Irwin Quick-Grip	1964741	**52LA98**
36 in	3 ⅝ in	9 ¼ to 44 ⅞	Irwin Quick-Grip	1964715	**52LA92**
50 in	3 ⅝ in	9 ¼ to 58 ⅞	Irwin Quick-Grip	1964716	**52LA93**
Double Force Sliding Arm Clamp					
60 in	4 ¾ in	14 to 73	Bessey	SLV150M	**32PJ83**
Bar Clamp Set					
	F-Style Sliding Arm		Bessey	CLSXHD-SET	**44ZL53**

Throat Depth (in.)	Load Cap. (lb.)	Brand	Mfr. Model	Item No.
Clutch Style Bar Clamps				
2 ½ in	600	Bessey	GSCC2.506	**19C727**
2 ½ in	600	Bessey	GSCC2.512	**19C728**
2 ½ in	600	Bessey	GSCC2.524	**19C729**
2 ½ in	600	Bessey	GSCC2.536	**19C730**
3 ½ in	1,100	Bessey	GSCC3.512	**19C731**
3 ½ in	1,100	Bessey	GSCC3.518	**19C732**
3 ½ in	1,100	Bessey	GSCC3.524	**19C733**
5 in	1,200	Bessey	GSCC5.012	**19C734**
5 in	1,200	Bessey	GSCC5.018	**19C735**
5 in	1,200	Bessey	GSCC5.024	**19C736**
Double Head Clutch Style Bar Clamps				
3 ½ in	400	Bessey	DHBC-12	**19C737**
3 ½ in	400	Bessey	DHBC-24	**19C738**
3 ½ in	400	Bessey	DHBC-36	**19C739**

★ WESTWARD® BESSEY



No. 4YR41

Pipe Clamps

Multiple disc clutch provides instant adjustment and quick release. Clamps can be mounted on any length pipe (not included). Include frame, screw, handle, tip, and slide. Nos. 4YR40 and 4YR41 have spring lever to prevent slipping.

Description	Brand	Item No.
½" Clutch-Style Pipe Clamp	Westward	**4YR40**
¾" Chuck-Style Pipe Clamp	Bessey	**32PJ65**
¾" Clutch-Style Pipe Clamp	Westward	**4YR41**
¾" Crank H-Style High-Clearance Pipe Clamp	Bessey	**19C750**
1¾" Traditional Pipe Clamp	Bessey	**48ZY81**


No. 6XE69


No. 3KB95


No. 3LE79


No. 4CN92


No. 5A317

BESSEY ★WESTWARD IRWIN QUICK-GRIP

Spring Clamps and Handi-Clamps™

Plastic w/2 Sliding Arms—Double-jaw, variable spring clamp features rapid-action sliding top and bottom jaws. Adjusts up to 6½". Made of lightweight polyamide plastic. Ergonomic, 2-component, antislip handle.

Plastic w/Sliding Arm—Adjustable sliding arm design opens up to 4". Includes ergonomic grips and soft pads.

Plastic—Soft jaw pads and molded grooves in ergonomic handles. Made from high-tech resin.

Plastic Needle Nose—Long tapered nose design. Made of lightweight polyamide plastic. Ergonomic, 2-component, antislip handle.

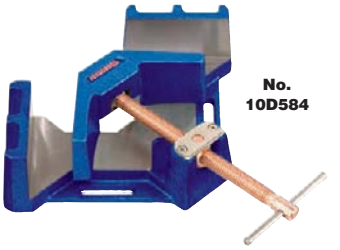
Steel—Tempered steel spring and ergonomic design.

Handi-Clamps™—QUICK-RELEASE™ trigger allows fast, easy positioning and easy jaw release. Jaws are specially designed to hold odd-shaped work pieces. High-tech resin construction.

Max. Jaw Opening (in.)	L (in.)	Brand	Item No.
Plastic w/2 Sliding Arms			
6½	7	Bessey	**3YNA5**
Plastic w/Sliding Arm			
2⅛	5	Bessey	**6XE69**
Plastic			
1	4	Westward	**3KB95**
2	6	Westward	**3KB96**
2	6¼	Bessey	**40P156**
3	8 7/64"	Westward	**3KB97**
Plastic Needle Nose			
2	4¼	Bessey	**3YNA3**
3	8¾	Bessey	**3YNA4**
Aluminum w/PVC Tips and Handles			
1½	4¾	Westward	**10D640**
2¼	7	Westward	**10D641**
Steel			
1	4	Westward	**4CN91**
2	6	Westward	**4CN92**
3	9	Westward	**4CN93**
5	12	Westward	**10D576**

Max. Jaw Opening (in.)	L (in.)	Brand	Item No.
Steel w/Polyvinyl Handles and Tips			
1	4	Westward	**5A317**
2	6	Westward	**5A318**
3	9	Westward	**5A319**
Steel w/Vinyl Tips			
5	12	Westward	**10D580**
Ergonomic, Anti-slip, Plastic Resin			
2	5¼	Irwin Quick-Grip	**3KKJ2**
3	8⅝	Irwin Quick-Grip	**3KKJ4**
Handi-Clamps™ Curved Bar			
2"	—	Irwin Quick-Grip	**3LE80**
4"	—	Irwin Quick-Grip	**3LE79**
Spring Clamp Set, 14-Pc.			
3	3¼ to 8¼	Bessey	**5HXR7**

For Use With	Brand	Item No.
Replacement Pad		
3LE79, 3LE80	Irwin Quick-Grip	**40P229**


No. 10D584

BESSEY ★WESTWARD WILTON

90° Angle Clamps

A self-centering jaw adjusts to clamp workpieces. Oblong holes in base for mounting.

Miter Cap. (in.)	Jaw Height (in.)	Jaw Length (in.)	Brand	Item No.
—	7/16	1 1/16	Westward	**10D587**
—	1⅜	—	Bessey	**40P185**
1⅛	1⅛	4	Bessey	**48ZY79**
1 27/32	1 15/32	3½	Westward	**10D586**
2 7/16	2 7/16	—	Bessey	**8FLF3**
2¾	1⅜	2¼	Wilton	**6YA84**
3	½	2½	Bessey	**19C748**
3 1/32	1⅜	4⅛	Wilton	**5C843**
3½	3	—	Westward	**39M996**
3½	1⅜	4	Bessey	**40P183**
4⅛	2 13/32	5¼	Westward	**10D584**
4⅜	2⅜	4⅛	Wilton	**4CN99**
4¾	2⅜	4½	Bessey	**40P184**


No. 19C763

BESSEY

Toggle Clamps

Clamps automatically adjust to hold workpiece sizes up to 2⅜" (60mm). 700-lb. holding capacity. Integrated pressure screw allows 25- to 550-lb. of user-adjustable pressure. Spindle has M8 thread.

Arm	Height Under Arm (in.)	Overall H (in.)	Item No.
1 9/16" Horizontal Low Profile	¾	2	**19C762**
2⅜" Horizontal High Profile	1½	2⅜	**19C763**
1" Inline	¾	1⅜	**19C764**


No. 23N366

KANT TWIST

Cantilever Clamps

T-handle and deep throat clamps have free-floating jaws that adjust to unparallel surfaces. They will not walk off center because there is no unsupported screw or loose pad. Copper-plated jaws and screws are ideal for welding. Clamps close completely. Stainless steel clamps are for corrosive and magnetic problem areas.

Max. Opening	Clamping Pressure	Throat Depth	Mfr. Model	Item No.
T-Handle				
1"	350 lb.	½"	K010T	**23N366**
2"	800 lb.	1¼"	K020T	**23N367**
3"	1500 lb.	1¾"	K030T	**23N368**
6"	2000 lb.	3⅜"	K060T	**23N369**
9"	2500 lb.	5¼"	K090T	**23N370**
12"	6000 lb.	7"	K120T	**23N371**
Deep Throat				
2½"	700 lb.	1 13/16"	K025TD	**23N372**
4½"	1700 lb.	3⅛"	K045TD	**23N373**
6"	2000 lb.	5½"	K060TD	**23N374**
10"	3500 lb.	7"	K100TD	**23N375**
Stainless Steel				
2"	700 lb.	1¼"	K020TS	**23N376**
3"	1200 lb.	1¾"	K030TS	**23N377**
4½"	1500 lb.	3⅛"	K045TSD	**23N378**
Steel				
1"	350 lb.	½"	K010R	**38NE15**
4¼"	1700 lb.	2½"	K045TPD	**38NE16**

For Use With	Item No.
Weaver Grips	
Clamps with 2" and 2½" Jaw Size	**23N380**
Clamps with 3" and 4½" Jaw Size	**23N381**
Clamps with 6" Jaw Size	**23N382**


No. 45RM37

BESSEY

Strap Clamp

Ideal for compressing and clamping irregularly shaped objects. The rugged polyester band applies equal pressure on all corners of an object without causing distortion. Includes 4 corner clips.

Description	Band Length (ft.)	Mfr. Model	Item No.
Strap Clamp	23	VAS-23+2K	**45RM37**
Replacement Strap Clamp Corner Clips, Pkg. 6	—	VAC-6	**5HXR1**



BESSEY

Face Frame Clamp

Face frame stiles can be tightened, aligned, predrilled, and fastened while the clamp is in place. Holds individual cabinet edges together while keeping the faces along the joint flush. Integrated pilot hole drilling guide on one end flips out of the way so you can drive screws to connect the cabinets without removing or repositioning the clamp. Features aluminum alignment plate, nonmarring felt pads, and ACME threaded screws.

Opening (in.)	Nom. Clamping Pressure	Throat Depth (in.)	W (in.)	Item No.
4¼	600	1¼	2½	**450G52**



Cast Iron
No. 18G737



Light Duty
Double Head
No. 19C755



Heavy Duty
No. 5C833



Regular Duty
Deep Throat
No. 18G713



Copper Plated
Spindle
No. 24W081

WILTON COLUMBIAN WESTWARD BESSEY

C-Clamps

- Replacement parts are available on Grainger.com®
- Wilton Hi-Viz clamps conform to OSHA safety color standards

Max. Opening	Throat Depth	Clamping Pressure	Brand	Item No.
Cast Iron				
Heavy Duty				
1"	1 1/16"	645 lb.	Wilton	**41D484**
1 1/2"	1 1/2"	620 lb.	Wilton	**41D485**
2"	1 1/8"	800 lb.	Wilton	**41D486**
2 1/2"	1 7/16"	850 lb.	Wilton	**41D487**
	2 1/2"	1005 lb.	Wilton	**41D488**
3"	2"	1430 lb.	Wilton	**41D489**
4"	2 3/4"	1535 lb.	Wilton	**41D490**
5"	3"	1225 lb.	Wilton	**41D491**
6"	3 1/4"	1400 lb.	Wilton	**41D492**
8"	4"	1700 lb.	Columbian	**41D493**
Regular Duty, Quick Release				
4"	2 1/4"	1200 lb.	Westward	**10D550**
Regular Duty, Carriage				
2 1/2"	1 3/4"	1100 lb.	Wilton	**18G735**
5"	2 1/2"	2250 lb.	Wilton	**18G738**
14"	3 3/4"	2850 lb.	Wilton	**18G743**
Regular Duty				
1"	1"	375 lb.	Westward	**10D518**
2 1/2"	2 7/16"	550 lb.	Westward	**10D529**
3"	1 7/8"	1800 lb.	Westward	**2HUN2**
	1 7/8"	1800 lb.	Wilton	**18G736**
4"	2 1/16"	2150 lb.	Westward	**2LAY6**
	2 1/16"	2150 lb.	Wilton	**18G737**
6"	2 3/4"	2450 lb.	Westward	**2LAY7**
	2 3/4"	2450 lb.	Wilton	**18G739**
8"	3 1/4"	2750 lb.	Wilton	**18G740**
	3 1/4"	2750 lb.	Westward	**2LAY8**
10"	3 5/8"	2850 lb.	Wilton	**18G741**
	3 5/8"	2850 lb.	Westward	**10D515**
12"	3 5/8"	2850 lb.	Wilton	**18G742**
	3 5/8"	2850 lb.	Westward	**10D516**
Light Duty, Extra Deep Reach Carriage				
2 1/2"	4 3/4"	1600 lb.	Wilton	**18G748**
	6 1/4"	1600 lb.	Wilton	**18G749**
Light Duty, Deep Reach Carriage				
1"	3"	350 lb.	Wilton	**18G744**
2"	3 1/2"	450 lb.	Wilton	**18G745**
2 1/2"	4"	600 lb.	Wilton	**18G746**
3"	4 1/2"	700 lb.	Wilton	**18G747**
Light Duty, Quick Release				
3 1/2"	1 3/4"	1200 lb.	Bessey	**19C751**
4 3/8"	2 1/4"	1200 lb.	Bessey	**19C752**
6 3/8"	3 1/8"	1200 lb.	Bessey	**19C753**
Light Duty, Double Head				
4"	2 1/4"	1200 lb.	Bessey	**19C754**
6"	2 7/8"	1200 lb.	Bessey	**19C755**
Light Duty, Three-Way				
2 1/2"	2 1/2"	300 lb.	Bessey	**19C749**

Max. Opening	Throat Depth	Clamping Pressure	Brand	Item No.
Light Duty				
8"	3 3/8"	1700 lb.	Westward	**2LAZ4**
Light Duty, Junior				
1 1/4"	1 3/16"	550 lb.	Wilton	**41D495**
2 1/2"	2 5/16"	550 lb.	Wilton	**41D496**
Forged Steel				
Extra Heavy Duty, Square Head Spindle				
1 3/8"	1 3/32"	5600 lb.	Wilton	**24W105**
1 3/4"	1 7/16"	8750 lb.	Wilton	**24W106**
2 3/8"	1 7/8"	12,500 lb.	Wilton	**24W107**
3 3/16"	2 5/16"	16,250 lb.	Wilton	**24W108**
4 1/2"	2 3/4"	20,000 lb.	Wilton	**24W109**
5 1/2"	3 1/8"	23,800 lb.	Wilton	**24W110**
6 1/2"	3 3/8"	27,500 lb.	Wilton	**24W111**
8 1/2"	3 5/8"	31,250 lb.	Wilton	**24W112**
10 1/2"	3 15/16"	35,000 lb.	Wilton	**24W113**
12 3/8"	4 1/4"	40,000 lb.	Wilton	**24W114**
Extra Heavy Duty, Square Head T-Handle				
3"	2"	8750 lb.	Wilton	**5C831**
4"	2 1/2"	10,000 lb.	Wilton	**5C832**
6"	2 1/2"	11,250 lb.	Wilton	**5C833**
8"	2 3/4"	12,500 lb.	Wilton	**6YA88**
10"	2 7/8"	13,750 lb.	Wilton	**18G691**
12"	2 15/16"	15,000 lb.	Wilton	**18G692**
Heavy Duty, Square Head T-Handle				
6 1/4"	2 7/8"	11,250 lb.	Westward	**10D475**
7 1/4"	3 7/8"	12,250 lb.	Westward	**10D476**
11 5/8"	5"	15,000 lb.	Westward	**10D479**
Regular Duty, Extra Deep Throat, Black Oxide Spindle				
4"	3 1/4"	6200 lb.	Westward	**2HUK1**
	4"	4100 lb.	Wilton	**18G726**
6"	4 1/8"	6600 lb.	Westward	**2HUK2**
	5"	5400 lb.	Wilton	**18G727**
8"	5"	6900 lb.	Westward	**2HUK3**
	6"	5900 lb.	Wilton	**18G728**
10"	6"	8000 lb.	Westward	**2HUK4**
12"	6 1/4"	9300 lb.	Westward	**2HUK5**
Regular Duty, Deep Throat, Black Oxide Spindle				
2 1/8"	2 1/4"	3500 lb.	Wilton	**18G712**
3"	2 1/2"	3500 lb.	Wilton	**18G713**
4 1/4"	3 1/4"	6200 lb.	Wilton	**18G714**
6 1/16"	4 1/8"	6600 lb.	Wilton	**18G715**
8 1/4"	5"	6900 lb.	Wilton	**18G716**
10 1/8"	6"	8000 lb.	Wilton	**18G717**
12 1/4"	6 5/16"	9300 lb.	Wilton	**18G718**
Regular Duty, Deep Throat, Copper Plated Spindle				
2 1/8"	2 3/8"	3500 lb.	Wilton	**24W081**
3"	2 1/2"	3500 lb.	Wilton	**24W083**
8 1/4"	5"	6900 lb.	Wilton	**41D477**
10 1/8"	6"	8000 lb.	Wilton	**24W091**
12 1/4"	6 5/16"	9300 lb.	Wilton	**24W093**

Max. Opening	Throat Depth	Clamping Pressure	Brand	Item No.
Regular Duty, Deep Throat, Spark Duty, Copper Plated Spindle				
4 1/4"	3 1/4"	6200 lb.	Wilton	**41D475**
6 1/16"	4 1/8"	6600 lb.	Wilton	**41D476**
Regular Duty, Black Oxide Spindle				
2"	1 13/16"	2700 lb.	Wilton	**18G704**
Regular Duty, Copper Plated Spindle				
8"	5"	6900 lb.	Westward	**2HUN1**
Regular Duty, Galvanized Spindle				
6"	3 1/2"	1100 lb.	Westward	**10D646**
Regular Duty, Hi-Viz Yellow, Black Oxide Spindle				
2 1/8"	2 1/4"	3500 lb.	Wilton	**18G719**
3"	2 1/2"	3500 lb.	Wilton	**18G720**
4 1/4"	3 1/4"	6200 lb.	Wilton	**18G721**
6 1/16"	4 1/8"	6600 lb.	Wilton	**18G722**
8 1/4"	5"	6900 lb.	Wilton	**18G723**
10 1/8"	6"	8000 lb.	Wilton	**18G724**
12 1/4"	6 5/16"	9300 lb.	Wilton	**18G725**
Regular Duty, Hi-Viz Yellow, Copper Plated Spindle				
2"	2"	3500 lb.	Wilton	**41D478**
3"	2 3/8"	3500 lb.	Wilton	**41D479**
4"	2 3/4"	6200 lb.	Wilton	**41D480**
6"	3 5/8"	6600 lb.	Wilton	**24W144**
8"	4 1/2"	6900 lb.	Wilton	**41D481**
10"	5 3/8"	8000 lb.	Wilton	**41D482**
12"	5 3/4"	9500 lb.	Wilton	**41D483**
Regular Duty, Nickel Plated Spindle				
8"	3 7/16"	5200 lb.	Westward	**2HUL2**
12"	3 7/8"	8000 lb.	Westward	**2HUL4**
Regular Duty, Black Oxide Spindle				
3"	1 15/16"	3000 lb.	Wilton	**18G705**
4"	2 9/16"	3700 lb.	Wilton	**18G706**
6"	2 15/16"	4500 lb.	Wilton	**18G707**
8"	3 7/16"	5200 lb.	Wilton	**18G708**
10"	3 3/4"	6000 lb.	Wilton	**18G709**
12"	3 7/8"	8000 lb.	Wilton	**18G710**
Regular Duty, Copper Plated Spindle				
3"	2 7/16"	2880 lb.	Westward	**10D540**
Light Duty				
1"	1"	500 lb.	Wilton	**41D497**
	1 1/8"	500 lb.	Westward	**2HUJ3**
1 1/4"	1 1/4"	800 lb.	Wilton	**41D498**
1 1/2"	1 1/2"	850 lb.	Wilton	**41D499**
2"	1 1/4"	875 lb.	Westward	**2HUJ5**
2 1/2"	2 1/2"	850 lb.	Wilton	**41D503**
3"	1 3/8"	1100 lb.	Westward	**2HUJ6**

Description	Brand	Item No.
C-Clamp Kit		
V-Grooved, High Visibility Yellow, Regular Duty, 2", 3 3/4", 3 5/8", 4 1/2" Throat Depth	Wilton	**48FX59**
Flat, Black, Light Duty, 1 3/4", 2 1/16", 2 3/4", 3 1/4" Throat Depth	Wilton	**48FX60**



No. 10D624



No. 2JFW5



No. 2JFU1



No. 3YNA2



No. 19C713



No. 5HXN9

BESSEY ★ WESTWARD

L-, F-, Sliding-Arm Bar and J-Clamps

L-Clamps—Adjustable, rapid-acting sliding arm. All-steel, spring-tempered design. Hardened alloy steel spindles resist weld spatter. Adjustable swivel pads tilt to accommodate angular workpieces. Vibration-resistant.

F-Clamps—Heat-treated, spatter-resistant spindle and replaceable swivel-tilting pressure pad. Nos. 2JFU5 and 2JFU6 provide larger throat depth (reach).

Sliding-Arm Bar Clamps—Heat-treated, spatter-resistant spindle, swivel-tilting pressure pad, and a vibration-dampening design. Arc of the curve enables rail to hug workpiece. Fixed arm and pressure plate are tempered steel. No. 3YNA2 can be used at various angles for compressing and spreading.

Max. Jaw Opening (in.)	Throat Depth (in.)	Nom. Rail Size (in.)	Nom. Clamping Pressure (lb.)	Pad Type	Brand	Mfr. Model	Item No.
L-Clamps							
Rapid-Action Lever							
4	2 3/8	19/32 x 15/64	400	Pivoting	Bessey	LC4	**2JFW9**
8	4	55/64 x 11/32	660	Pivoting	Bessey	LC8	**2JFX1**
8	4	3/4 x 3/8	550	N/A	Westward	—	**10D552**
12	5 1/2	1 x 15/32	960	N/A	Westward	—	**10D553**
12	5 1/2	1 7/64 x 7/16	1200	Pivoting	Bessey	LC12	**2JFX2**
Medium-Duty							
16	6 7/8	1 17/32 x 25/32	4,500	Swivel, Hex Head	Westward	—	**10D624**
Light-Duty							
8	4 3/4	7/8 x 7/16	1500	Swivel, Smooth	Westward	—	**2FGN7**
10	4 3/4	1 3/16 x 9/16	2600	Swivel, Smooth	Westward	—	**2FGN8**
12	4 3/4	1 3/16 x 9/16	2600	Swivel, Smooth	Westward	—	**2FGN9**
F-Clamps							
Heavy-Duty Professional							
12	7	1 9/16 x 25/32	4880	Swivel Morpad	Bessey	4800S-12	**2JFW5**
18	7	1 9/16 x 25/32	4880	Swivel Morpad	Bessey	4800S-18	**2JFW6**
18	7	1 37/64 x 25/32	4880	Standard	Bessey	STB-18	**44ZL49**
24	7	1 9/16 x 25/32	4880	Swivel Morpad	Bessey	4800S-24	**2JFW7**
36	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad, Tilts 35°	Bessey	2400S-36	**40P161**
36	7	1 37/64 x 25/32	4880	Standard	Bessey	STB-36	**44ZL51**
36	7	1 5/8 x 3/4	4830	Hexagonal	Westward	—	**10D569**
Medium-Duty							
6	4 3/4	7/8 x 7/16	800	Smooth	Westward	—	**10D556**
Regular-Duty w/Ergonomic Grip							
8	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad	Bessey	2400S-8	**2JFT9**
12	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad	Bessey	2400S-12	**2JFU1**
12	8	1 3/16 x 19/32	1770	Swivel Morpad	Bessey	DT2400-12	**2JFU5**
16	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad	Bessey	2400S-16	**2JFU2**
20	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad	Bessey	2400S-20	**2JFU3**
24	5 1/2	1 11/32 x 1/2	2800	Swivel Morpad	Bessey	2400S-24	**2JFU4**
24	8	1 3/16 x 19/32	1770	Swivel Morpad	Bessey	DT2400-24	**2JFU6**
Regular-Duty							
12	5 1/2	1 x 15/32	1300	Smooth	Westward	—	**10D559**
12	5 1/2	13/16 x 9/16	2750	Smooth	Westward	—	**10D560**
Shop Floor Series							
4	2 1/4	17/32 x 1/4	400	Swivel, Standard	Bessey	MMS-4	**2JFU7**
8	2 1/4	17/32 x 1/4	400	Swivel, Standard	Bessey	MMS-8	**2JFU8**
Sliding-Arm Bar Clamps/Spreaders							
Industrial-Duty Reversible Angle w/Ergonomic Grip							
12	4 3/4	1 3/16 x 19/32	2600	Swivel, Replaceable	Bessey	SG30VAD	**3YNA2**
MaxFlex Antivibration Cross-Over w/Ergonomic Grip							
8	4	49/64 x 3/8	770	Swivel	Bessey	RSC-8	**2JFV7**
12	5 1/2	63/64 x 15/32	1100	Swivel	Bessey	RSC-12	**2JFV8**
18	4 3/4	63/64 x 15/32	1100	Swivel	Bessey	RSC-18	**2JFV9**
Extra Heavy-Duty							
12	8	2 x 1	7770	Swivel MorPad	Bessey	7200S-12	**19C710**
14	4	1 1/2 x 3/4	8500	Swivel MorPad	Bessey	8500HPC-14	**19C712**
18	8	2 x 1	7770	Swivel MorPad	Bessey	7200S-18	**19C711**
Heavy-Duty, Quick-Adj Steel Bar Clamp							
12	6 7/8	1 17/32 x 25/32	4,500	Swivel	Westward	—	**10D566**
Regular-Duty							
9	5 1/2	1 3/16 x 19/32	2660	Swivel, Heavy Duty	Bessey	GSM25	**19C722**
12	4 3/4	1 1/16 x 33/64	1880	Swivel, Heavy Duty	Bessey	GSL30	**19C720**
12	5 1/2	1 3/16 x 19/32	2660	Swivel, Heavy Duty	Bessey	GSM30	**19C723**
16	5 1/2	1 3/16 x 19/32	2660	Swivel, Heavy Duty	Bessey	GSM40	**19C724**
20	5 1/2	1 3/16 x 19/32	2660	Swivel, Heavy Duty	Bessey	GSM50	**19C725**
24	4 3/4	1 1/16 x 33/64	1880	Swivel, Heavy Duty	Bessey	GSL60	**19C721**
24	5 1/2	1 3/16 x 19/32	2660	Swivel, Heavy Duty	Bessey	GSM60	**19C726**
40	4 3/4	1 5/32 x 19/32	2,500	Swivel, Hex Head	Westward	—	**10D616**
Light-Duty							
4	3 1/8	5/8 x 19/64	550	Swivel, Standard	Bessey	GS12-8K	**19C713**
6	3 1/8	5/8 x 19/64	550	Swivel, Standard	Bessey	GS16K	**19C714**
6	4 3/4	7/8 x 15/32	1000	Swivel, Standard	Bessey	GS16-12K	**19C715**
8	4	49/64 x 3/8	880	Swivel, Standard	Bessey	GS20K	**19C716**
10	4 3/4	55/64 x 13/32	1000	Swivel, Standard	Bessey	GS25K	**19C717**
12	5 1/2	63/64 x 15/32	1200	Swivel, Standard	Bessey	GS30K	**19C718**
24	4 3/4	63/64 x 15/32	1200	Swivel, Standard	Bessey	GS60K	**19C719**
Light-Duty, Step Over, U-Style Bar Clamp							
4	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.004	**19C740**
6	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.006	**19C741**
8	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.008	**19C742**
Deep Reach, Flat Rail Sliding Arm Bar Clamp							
24	12	1 49/64 x 15/32	1550	Standard	Bessey	CDS 24-12WP	**19C760**
Ratcheting Sliding Arm Clamps							
4	3	25/32 x 13/64	260	Pivoting	Bessey	KLI3.004	**5HXN9**
8	3	25/32 x 13/64	260	Pivoting	Bessey	KLI3.008	**5HXP0**
12	3	25/32 x 13/64	260	Pivoting	Bessey	KLI3.0012	**5HXP1**
Step-Over J-Clamps							
Regular-Duty							
12	5 1/2	1 3/16 x 19/32	2660	Swivel, Morpad	Bessey	2400J-12	**2JFW2**
Light-Duty w/Ergonomic Grip							
10	4 3/4	7/8 x 13/32	880	Swivel, Standard	Bessey	J18-8	**2JFW8**
Bar Clamp Set							
F-Style Sliding Arm, Forged Steel					Bessey	CLSX-SET	**44ZL52**
Clamp Accessories							
Variable Angle Device					Bessey	VAD	**5HXR6**

Locking Clamps—Plier Style

IRWIN VISE-GRIP ★ WESTWARD

Nickel-plated, heat-treated alloy steel clamps have micro-adjustment screw mechanism.

LOCKING C-CLAMPS

For welding sheet metal or woodwork. Swivel pads help to protect work surfaces. Large capacity 9" clamp has extra throat width and depth for greater reach.

LOCKING CHAIN CLAMPS

Hold and lock around any size or shape—won't slip or crush thin-walled pipe. Adjust in either direction.

LOCKING CLAMP SETS

1-handed locking mechanism, easy-turning adjusting screw, and spring-loaded release lever.

5-Pc. Sets—No. 5MD28 includes (1) 10R® locking pliers, (2) 11R® C-clamps, and (2) 6R® C-clamps. No. 2FDD4 includes (2) No. 2FDC6 6-in., (1) 10-in., and (2) No. 2FDD1 11-in. locking C-clamps.

LOCKING SHEET METAL CLAMPS

For bending, forming, and crimping jobs.

LOCKING WELDING CLAMPS

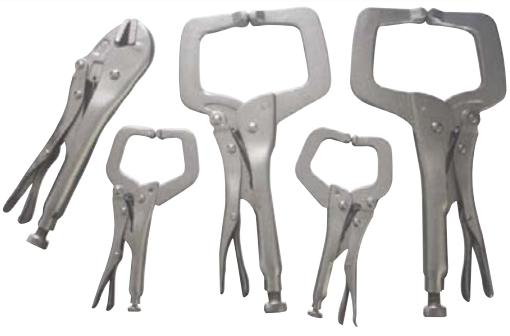
Clamps pipe, bars, or other metal work for welding or riveting. Deep-throated design; U-shaped jaws increase visibility and working space.



No. 2RKN7



No. 6C664



No. 2FDD4



No. 2FDC2



No. 3A515

Description	Max. Opening	Throat Depth	Clamping Force	Nominal Clamp Size	Brand	Mfr. Model	Item No.
Locking C-Clamps							
4" with Swivel Pads	1⅝"	1¼"	Not Rated	4"	Irwin Vise-Grip	4SP	**2H125**
4½" with Swivel Pads	1⅝"	1¼"	Not Rated	4"	Westward	—	**2FDC5**
6", Steel	2⅛"	1½"	Not Rated	6"	Irwin Vise-Grip	6R	**3A516**
6" with Swivel Pads	2⅛"	1½"	Not Rated	6"	Irwin Vise-Grip	6SP	**2H127**
6⅜", Steel	2"	1⅛"	500 lb.	6"	Westward	—	**2FDC6**
7⅜" with Swivel Pads	2"	1⅛"	500 lb.	6"	Westward	—	**2FDC7**
9" with Swivel Pads	4½"	4¾"	Not Rated	9"	Irwin Vise-Grip	9SP	**4JA65**
9" Large Capacity	4½"	4¾"	Not Rated	9"	Irwin Vise-Grip	9DR	**5MD51**
10⅛" Steel	3⅛"	2¼"	900 lb.	10"	Westward	—	**2FDC9**
10⅛" with Swivel Pads	3⅛"	2¼"	900 lb.	10"	Westward	—	**2FDC8**
10¾" Steel	3⅜"	2¼"	900 lb.	11"	Westward	—	**2FDD1**
11" Steel	3⅜"	2⅜"	Not Rated	11"	Irwin Vise-Grip	11R	**3A517**
11" with Swivel Pads	3⅜"	2⅜"	Not Rated	11"	Irwin Vise-Grip	11SP	**6C663**
11⅜" with Swivel Pads	3⅜"	2¼"	900 lb.	11"	Westward	—	**2FDD2**
12¼", Regular Duty	900 lb.	1¾"	900 lb.	12"	Westward	—	**45W340**
18" Deep Reach	7½"	9½"	2000 lb.	18"	Irwin Vise-Grip	18DR	**2H123**
18" Locking C-Clamp w/Swivel Pad	8"	9½"	2000 lb.	18"	Irwin Vise-Grip	18SP	**2RKN6**
18" Locking C-Clamp	8"	9½"	2000 lb.	18"	Irwin Vise-Grip	18R	**2RKN7**
18⅛", Steel	8⅝"	9½"	556 lb.	18"	Westward	—	**2FDD3**
24" with Swivel Pads	10"	15½"	2000 lb.	24"	Irwin Vise-Grip	28	**3KKL7**
24" Locking C-Clamp	10"	15½"	2000 lb.	24"	Irwin Vise-Grip	275	**3KKL3**
Locking Chain Clamps							
8¾" Steel	3⅜"	1¼"	Not Rated	9"	Westward	—	**2FDC3**
9" Steel	3⅜"	—	Not Rated	9"	Irwin Vise-Grip	20R	**6C664**
Locking Clamp Sets							
2-pc., 11" with Swivel Pads	2½"	2⅝"	Not Rated	11"	Westward	—	**4YR39**
2-pc. 9" with 4 Swivel Pads	4½"	4¾"	Not Rated	9"	Irwin Vise-Grip	45619	**10J866**
5-pc. C-Clamp Set	—	1⅞", 2⅛", 4"	Not Rated	(2) 6", (1) 10", (2) 11"	Irwin Vise-Grip	74	**5MD28**
5-pc. C-Clamp Set	—	5½"	Not Rated	(2) 6", (1) 10", (2) 11"	Westward	—	**2FDD4**
8-pc. Locking Clamp Set	2⅛, 3⅜, 9½"	1½, 2⅝"	Not Rated	6", 11", 18", 24"	Irwin Vise-Grip	8107ZR	**10J871**
Locking Sheet Metal Clamps							
7¾" Steel	½"	1¾"	1000 lb.	8"	Westward	—	**2FDC2**
8" Steel	3⅛"	1¾"	Not Rated	8"	Irwin Vise-Grip	8R	**3A514**
Locking Welding Clamps							
9" Steel	2¾"	1⅝"	Not Rated	9"	Irwin Vise-Grip	9R	**3A515**
9" Chrome Vanadium Steel	1⅝"	1⅝"	Not Rated	9"	Westward	—	**2HMV2**
Replacement Chains							
18"	—	—	—	—	Westward	—	**2FDC4**
18"	—	—	Not Rated	18"	Irwin Vise-Grip	40REP	**6C665**

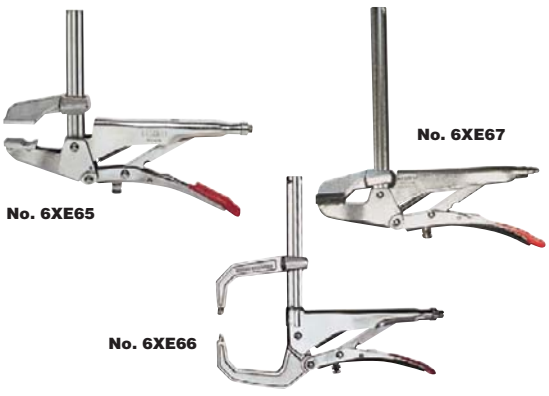
Locking Clamps—Sliding Arm Style

BESSEY

Sliding-arm chrome-vanadium steel SuperGrips™ jaws automatically adjust to remain parallel with each other. Handles have pressure adjustment screw and plastic-coated release levers. Ergonomically designed to prevent kickbacks.

Standard SuperGrips™—Both models have a sliding-arm clamp jaw adjustment with grip-pliers design and removable nylon jaw pads.

Deep Reach—J-shaped jaws clamp over angle iron, channel iron, and other assemblies/obstructions.



No. 6XE65

No. 6XE67

No. 6XE66

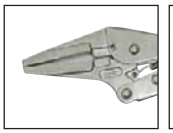
Description	Max. Opening	Throat Depth	Clamping Force	Nominal Clamp Size	Mfr. Model	Item No.
8" Standard SuperGrips™	4"	2½"	440 lb.	8"	SG4	**6XE65**
10" Standard SuperGrips™	8"	2½"	440 lb.	10"	SG8	**6XE67**
11" Deep Reach	4½"	3"	310 lb.	11"	SG5-DR	**6XE66**



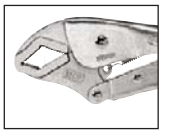

Chain Nose


Curved Jaw


Locking Sheet Metal


Long Nose


Straight Jaw


V-Jaw

Locking Pliers

All have guarded release trigger and adjusting screw. Heat treated alloy steel.

Fast-Release—1-handed release and locking functions with adjusting screw.

Curved Jaw—Use as wire cutter, pipe or speed wrench, clamp, pliers, or for holding small objects.

Long Nose—Nonslip grip at tip holds small work.

Straight Jaw—Lock to stud bolts for easy removal and to heavy-gauge wire for twisting.

V-Jaw—Ideal for twisting and turning applications.

L	Jaw Cap.	Jaw Thickness	Wire Cutter	Brand	Item No.
Chain Nose Locking Pliers					
Plain Handle					
9 27/32"	6 19/64"	5/16"	No	Proto	**10G678**
Curved Jaw Locking Pliers					
Comfort Grip Handle					
5"	1 1/4"	23/64"	Yes	Milwaukee	**32TR78**
7"	1"	13/32"	Yes	Milwaukee	**32TR76**
10"	2"	29/64"	Yes	Milwaukee	**32TR75**
10"	2"	31/64"	Yes	Milwaukee	**32TR77**
Ergonomic Handle					
4"	1"	3/8"	Yes	Milwaukee	**48ZT29**
5"	1 1/8"	1/4"	Yes	Westward	**1ECF8**
5"	1 1/8"	13/32"	Yes	Milwaukee	**48ZT28**
7"	1 1/2"	1/4"	Yes	Westward	**1ECF9**
7"	1 1/2"	29/64"	Yes	Milwaukee	**48ZT27**
7"	1 1/2"	29/64"	Yes	Milwaukee	**48ZT35**
7"	1 1/2"	29/64"	Yes	Milwaukee	**48ZT37**
10"	1 7/8"	3/8"	Yes	Westward	**1ECG1**
10"	1 7/8"	19/32"	Yes	Milwaukee	**48ZT36**
10"	1 7/8"	19/32"	Yes	Milwaukee	**48ZT38**
12"	3 1/8"	3/4"	Yes	Milwaukee	**48ZT34**
Plain Handle					
4"	1"	1/8"	Yes	Irwin Vise-Grip	**4NV41**
5"	1 1/8"	1/4"	Yes	Westward	**1ECE4**
5"	1 1/8"	1/4"	Yes	Irwin Vise-Grip	**1A419**
5 1/2"	1 3/16"	1/4"	Yes	Proto	**4EAA8**
7"	1 1/2"	1/4"	Yes	Westward	**1ECE5**
7"	1 1/2"	5/16"	Yes	Irwin Vise-Grip	**1A420**
7 15/32"	1 5/8"	1 1/32"	Yes	Proto	**4EAA9**
7 15/32"	1 5/8"	1 1/32"	No	Proto	**4EAA4**
9 1/4"	2 3/8"	25/64"	No	Proto	**4EAA5**
9-4/11"	2 3/8"	1/2"	Yes	Proto	**4EAA6**
9 7/16"	2 23/64"	1/2"	No	Proto	**10G668**
10"	1 7/8"	3/8"	Yes	Westward	**1ECE6**
10"	1 7/8"	7/16"	Yes	Irwin Vise-Grip	**1A421**
12"	3 1/8"	1/2"	No	Irwin Vise-Grip	**2H121**
Locking Sheet Metal Clamp					
9"	3/8"	1/4"	No	Irwin Vise-Grip	**3WEL1**

L	Jaw Cap.	Jaw Thickness	Wire Cutter	Brand	Item No.
Long Nose Locking Pliers					
Comfort Grip Handle					
6"	2 13/32"	3/16"	Yes	Milwaukee	**32TR82**
9"	2 1/2"	3/16"	Yes	Milwaukee	**32TR81**
Ergonomic Handle					
4"	1 1/2"	13/32"	Yes	Milwaukee	**48ZT30**
6"	2"	3/8"	Yes	Westward	**1ECG3**
6"	2"	29/64"	Yes	Milwaukee	**48ZT31**
9"	2 3/4"	1/2"	Yes	Milwaukee	**48ZT32**
Plain Handle					
4"	1 1/2"	1/4"	Yes	Westward	**1ECF1**
4"	1 5/8"	3/16"	Yes	Irwin Vise-Grip	**4NV42**
6"	2"	3/8"	Yes	Westward	**1ECF2**
6"	2 1/4"	5/16"	Yes	Irwin Vise-Grip	**1A422**
6 29/32"	2 3/16"	5/16"	No	Proto	**4EAA2**
7 3/32"	2 5/8"	3/8"	Yes	Proto	**10G677**
9"	2 3/4"	7/16"	Yes	Westward	**1ECF3**
9"	2 1/8"	3/16"	Yes	Irwin Vise-Grip	**1A423**
9 1/32"	2 3/4"	3/16"	No	Proto	**4EAA3**
Straight Jaw Locking Pliers					
Ergonomic Handle					
7"	1 1/2"	29/64"	Yes	Milwaukee	**48ZT39**
10"	1 3/4"	5/8"	No	Westward	**1ECG2**
10"	1 7/8"	19/32"	Yes	Milwaukee	**48ZT40**
Plain Handle					
7"	1"	1/4"	No	Irwin Vise-Grip	**1ATK1**
7"	1 5/16"	5/16"	No	Irwin Vise-Grip	**4CHV7**
7"	1 1/2"	7/16"	No	Westward	**1ECE8**
7"	1 3/4"	5/8"	No	Milwaukee	**32TR80**
7 15/32"	1 5/8"	1/2"	No	Proto	**4EAC1**
9 1/4"	2 3/8"	5/8"	No	Proto	**4EAA7**
10"	1 3/4"	7/16"	No	Irwin Vise-Grip	**4CHV6**
10"	1 3/4"	5/8"	No	Milwaukee	**32TR79**
V-Jaw Locking Pliers					
Plain Handle					
5"	1 1/8"	1/4"	No	Irwin Vise-Grip	**10J875**
7"	7/16" to 3/4"	1/2"	Yes	Irwin Vise-Grip	**4NV39**
7"	1 1/2"	5/16"	Yes	Irwin Vise-Grip	**4CHV5**
10"	5/8" to 1 1/8"	5/8"	Yes	Irwin Vise-Grip	**4NV38**
10"	1 7/8"	7/16"	Yes	Irwin Vise-Grip	**4CHV4**



No. 6C667



No. 32TR83


No. 4EAC2

Locking Plier Sets

No. of Pieces	Includes	Item No.
Irwin Vise-Grip		
2	No. 7WR, 6LN	**10J864**
2	No. 10WR, 5WR	**10J865**
2	No. 7WR, 10WR	**45PD80**
3	No. 10WR, 6LN, 5CR	**6C666**
3	No. 10R, 7CR, 5WR, Free 8-In-1 Screwdriver	**10J867**
3	No. 10CR, 7CR, 5CR	**10J868**
3	No. 6LN, 7R, 10WR	**45PD82**
3	No. 5WR, 7WR, 10WR	**45PD81**
4	No. 10CR, 7R, 6LN, 5WR	**6C667**
5	No. 10R, 10CR, 7WR, 6LN, 5CR	**4JA66**
5	No. 10R, 10WR, 7CR, 5WR, 6LN, Bag	**10J870**
7	No. 10CR, 6LN, 7R, 10LW, 7LW, 5CR, 12LC	**4NV47**
10	No. 10R, 10CR, 7R, 7WR, 7CR, 5WR, 6LN, 9LN, 6R, 11R, Plastic Tray	**10J872**
10	No. 10R, 10CR, 7R, 7WR, 7CR, 5WR, 6LN, 9LN, 6R, 11R, Kit Bag	**10J873**

No. of Pieces	Includes	Item No.
Milwaukee		
2	(1) 7" Pliers, (1) 10" Pliers	**32TR83**
2	Mfr. No. 48-22-3506, 48-22-3420	**52AY50**
Proto		
3	Mfr. No. J291XL 7" Straight, Mfr.No. J292XL 10" Curved, Mfr.No. J286LNXL 6" Long Nose	**4EAC2**
5	Mfr. No. J281XL 10" Optimum Grip, Mfr.No. J301XL 7" Plug Weld, Mfr. No. J286LNXL 6" Long Nose Locking, Mfr.No. J274XL 12" C-Clamp, Mfr. No. JMICROXL 4" Micro-Grip Clamp	**10G658**
6	(2) Locking Long Nose Pliers, (2) Curved Jaw Locking Pliers, (2) Straight Jaw Locking Pliers	**36XE15**
Westward		
3	5 And 10" Curved Jaw, 6" Long Nose	**1ECF5**
5	6" Long Nose, 10" Straight Jaw, 5, 7 And 10" Curved Jaw	**1ECG5**

CHANNELLOCK WORK HARD. SWEAT BLUE.® KNIPEX® ★ WESTWARD®

Pliers

Channellock®—Right-angle, laser-hardened teeth grip in all directions. Undercut tongue-and-groove design assures strong no-slip jaw action. Feature Channellock® Blue comfort grips. Electronic coating for rust protection.

Knipex®—Self-locking, nonslip guard prevents fingers from being pinched. Chrome vanadium steel.

Milwaukee®—Hardened teeth provide secure grip. Features over-molded cushion grips.

Westward®—Hardened and tempered steel.



No. 4CR44



No. 1UKP4



No. 2DYW9

No. of Pieces	Description	Item No.
Channellock		
Plier Sets		
3	7" Diagonal Cutter, 8" Long Nose Plier, 10" Tongue and Groove Plier	38GU18
3	7" High Leverage Diagonal Lap Joint Cutting Plier, 8" Side Cutting Long Nose Plier with Cutter and 10" Straight Jaw Tongue & Groove Plier	3UWD8
3	8" High Leverage Diagonal Cut Plier, 7½" Long Nose Plier w/ Cutter, 9½" Griplock® Tongue and Groove Plier	10N539
3	8" High Leverage Diagonal Cutter, 7½" Long Nose Plier w/ Cutter, 10" V-Jaw Tongue and Groove Plier	10N538
5	8" Long Nose, 8" Diagonal, 9" Linesman, 10" Tongue and Groove Code Blue®	1YHN1
5	6½" Slip Joint Plier, 7" High Leverage Diagonal Lap Joint Cutting Plier, 8" Long Nose Plier, 9½" Straight Jaw Tongue & Groove Plier, 10" Straight Jaw Tongue & Groove Plier	3ZZV4
5	6½" Slip Joint Plier, 8" High Leverage Curved Diagonal Lap Joint Cutting Plier, 8" Side Cutting Long Nose Plier with Cutter, 9½" Crimping Plier, 9½" Straight Jaw Tongue & Groove Plier	3UWD3
Plier Wrench Sets		
8	10" Adjustable Wrench, 6" Non-Slip Grip Diagonal Cut Plier, 7½" Long Nose Plier with Cutter, 9" Non-Slip Grip Linesman Plier, 6" Slip Joint Plier w/Cutter, 6½", 10" V-Jaw Tongue and Groove Plier, 12" Curved, V-Jaw Tongue and Groove Plier	10N540
Tongue and Groove Plier Sets		
2	6½", 10" V-Jaw Tongue and Groove Pliers	10N543
2	6½", 9½" Straight Jaw Tongue and Groove Pliers	4CR44
2	9½", 12½" Griplock® Plier	3KGX8
3	6½" V-Jaw, 9½" and 12" Curved, V-Jaw Tongue and Groove Pliers	10N537
3	6½", 9-1/25", 12½" Tongue and Groove Pliers	3JZC9
3	6½", 9½", 12½" Griplock® Plier	1YHL9
4	4", 6", 12", 16" Tongue and Groove Pliers	38GU20
Knipex		
Long Nose Plier Sets		
3	7" Bent Long Nose, 8" Dolphin Long Nose, 8" Hose Grip Pliers	38UU04
Plier Sets		
3	8" High -Leverage Angled Diagonal Cutter, 8" Long Nose, 10" Alligator® Slide Groove Pliers	2DYW7
3	8" High- Leverage Angled Diagonal Cutter, 8" Long Nose, 10" Cobra® Push Button Lock Pliers	2DYW6
3	6 19/64" Diagonal Cutter, 7 3/32" Linemans, 9 27/32" Cobra® Water Pump Pliers	38UT24
3	6 19/64" Diagonal Cutter, 7 7/8" Chain Nose, 7 3/32" Linemans Pliers	38UT26
3	7 3/32" High Leverage Diagonal Cutter, 7 3/32" High Leverage Linemans, 9 27/32" Cobra® Water Pump Pliers	38UT25
Plier Wrench Sets		
2	6" Plier Wrench, 5" Cobra® Water Pump Plier, Nylon Belt Pouch	30WJ80
3	6", 7", 10" Pliers Wrenches	10U089
3	7" with 1 3/8" Grip, 10" with 1 3/4" Grip, 12" with 2 3/8" Grip Plier Wrenches	10N811
Precision Plier Sets		
4	4 3/4" Mini Head, 5" Round Head w/Very Small Bevel, 5" Pointed Head with Lead Catcher Diagonal Cutters, 5 1/4" Half Round Gripping Plier, Tool Roll	38UU03
6	(2) 4 17/32" Diagonal Cutters, 4 23/32" End Cutter, 4 17/32" Chain Nose, 4 17/32" Flat Nose, 4 17/32" Round Nose Pliers, 6 7/64" Precision Tweezers, Zippered Tool Pouch	38UT28
6	(3) 5 1/8" Electronics Gripping Plier ESD, 4 23/32" Electronics Side Cutter ESD, (2) 4 59/64" Electronics Side Cutter ESD, Zippered Tool Pouch	38UT27
8	4 17/32" Pliers ESD, 4 17/32" Diagonal Cutter ESD, Screwdrivers	38UT29
8	4 17/32" Pliers, 4 17/32" Diagonal Cutter, Screwdrivers	38UT30
Water Pump Plier Sets		
3	7 1/4", 10" & 12" Alligator® Slide Groove Pliers	2DYW9
3	7 1/4", 10" & 12" Cobra® Push Button Locking Pliers	2DYW8
Westward		
Plier Sets		
3	6" Diagonal Cutter, 8" Linesman Pliers, 8" Long Nose Pliers	53JW89
5	7" Diagonal Cutter, 8" Linesman, 8" Long Nose, 8" Slip Joint, 10" Tongue and Groove Pliers	1UKP5
6	6" Diagonal Cutter, 9" Diagonal Cutter, 8" Linesman Pliers, 8" Long Nose Pliers, 6" Long Nose Pliers, 7" End Cutting Nipper	53JW90
8	5" Diagonal Cutter, 4" Needle Nose Pliers, 5" Needle Nose Pliers, 4" Bent Nose Pliers, 4½" End Cutting Nipper, 5" Flat Nose Pliers, 5" Round Nose Pliers, 4½" Linesman Pliers	53JW91
Plier Wrench Sets		
4	8" Adjustable Wrench, 8" Linesman, 8" Long Nose, 10 " Tongue and Groove Pliers	1UKP4



No. 13H878



No. 2DHA2



No. 3WCN4



No. 13P203

Specialty Pliers

SK® ★ WESTWARD® KNIPEX® KLEIN TOOLS® CHANNELLOCK WORK HARD. SWEAT BLUE.®

Description	Overall Length	Jaw Length	Jaw Width	Capacity	Brand	Item No.
Automotive Hose Pinch Pliers	9"	—	—	1¼"	SK	13P196
Cannon Plug Soft Jaw Pliers	10"	—	—	¾ to 2½"	SK	13P214
Crimper	7¼"	—	—	26 to 14 AWG	Westward	13H878
Cycle Plier	7⅞"	2½"	1¼"	—	Knipex	38UT92
Dieless Crimper	5¾"	—	—	UG, UR, and UY connectors, Cuts Datacom/Telecom wiring	Klein Tools	2DHA2
Fencing Plier	10⅜"	¾"	3"	—	Channellock	3WCN4
Fencing Plier	10¼"	1"	3⅝"	—	Westward	53JX02
Halogen Bulb Plier	6¼"	2 3/16"	⅝"	—	Knipex	38UT44
Heavy Duty Hose Pinch Pliers	14"	—	—	2½"	SK	13P197
Hose Clamp Plier	12 39/64"	2½"	1¼"	—	Knipex	38TG18
Hose Clamp Plier	8¾"	1¼"	¾"	—	Knipex	54JD85
Locknut Plier	8½"	2⅜"	59/64"	—	Channellock	1YHL8
Locknut Plier	7¾"	1⅝"	15/16"	—	Klein Tools	2DHA6
Manual Crimper	10"	—	—	22 to 10 AWG	SK	13P198
Mini Hose Pinch Pliers	5½"	—	—	¾"	SK	13P203
Plier Handle Grips, Maroon, 6" Overall Length	6"	—	—	—	Klein Tools	2DFW8
Spark Plug Boot Plier	7 63/64"	2½"	⅞"	—	Knipex	38UT20
Welding Plier	9"	2 23/32"	1½"	—	Channellock	38GU12

	Description	Item No.
Klein Accessory		
	Plier Handle Grips, Maroon, 6" Overall Length	2DFW8


No. 5ETP4


No. 53JX06


Curved Jaw


Straight Jaw


V-Jaw

KNIPEX · WESTWARD · CHANNELLOCK (WORK HARD. SWEAT BLUE.) · Milwaukee

Tongue and Groove Pliers

- Hardened steel
- Corrosion-resistant

Channellock®—Undercut tongue-and-groove design assures strong no-slip jaw action. Laser heat-treated right-angle teeth for greater durability. GripLock® jaw design accommodates many shapes.

Westward®—Full polish and clear lacquering coating process provides corrosion resistance.

Knipex®—Cobra® pliers are self-gripping and feature high-leverage design. Feature push-button that locks adjustment position.

Milwaukee®—Reaming head design for up to 2" pipe. Forged alloy steel and induction hardened jaws. Smooth transition grips and rust protection.

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Box-Joint Jaw				
Groove Joint Dipped Handle				
7¼"	1½"	Knipex	87 03 180	**38UT94**
10"	2"	Knipex	87 03 250	**38UT95**
12"	2¾"	Knipex	87 03 300	**38UT96**
Curved Jaw				
Groove Joint Dipped Handle				
7"	1⅛"	Westward	53JX07	**53JX07**
16"	3⅜"	Westward	53JX06	**53JX06**
Push Button Dipped Handle				
10"	2 61/64"	Knipex	81 11 250	**46MW59**
10"	3 9/32"	Knipex	81 01 250	**46MW60**
Nutbuster Jaw				
Push Button Dipped Handle				
10"	1¼"	Knipex	87 41 250	**38GU40**
Tongue and Groove Dipped Handle				
9½"	1⅛"	Channellock	410	**4CR35**
13½"	2"	Channellock	414	**4CR36**
Pliers Wrenches				
Push Button Dipped Handle				
5"	⅞"	Knipex	86 03 125	**35HT99**
6"	1"	Knipex	86 03 150	**5ETP3**
7¼"	1⅜"	Knipex	86 03 180 SBA	**2DYX9**
10"	1¾"	Knipex	86 03 250 SBA	**2DYX7**
12"	2⅜"	Knipex	86 03 300 SBA	**2DYX8**
16"	3⅜"	Knipex	86 03 400	**35HU02**
Push Button Ergonomic Handle				
6"	1"	Knipex	86 05 150 S02	**10U039**
6"	1"	Knipex	86 05 150	**10U038**
7¼"	1⅜"	Knipex	86 05 180	**10U040**
10"	1¾"	Knipex	86 05 250	**10U041**
Pump Pliers				
Groove Joint Dipped Handle				
5"	1 1/16"	Knipex	90 01 125	**38UT99**
5"	1 1/16"	Knipex	90 03 125	**38UU01**
7¼"	1½"	Knipex	88 01 180 SBA	**2DYZ3**
10"	1 5/16"	Knipex	89 01 250	**38UT98**
10"	2"	Knipex	88 01 250 SBA	**2DYZ1**
12"	2¾"	Knipex	88 01 300 SBA	**2DYZ2**
Groove Joint Ergonomic Handle				
7¼"	1½"	Knipex	88 02 180 SBA	**2DYZ6**
10"	2"	Knipex	88 02 250 SBA	**2DYZ4**
12"	2¾"	Knipex	88 02 300 SBA	**2DYZ5**
Push Button Dipped Handle				
6"	1¼"	Knipex	87 01 150	**10U042**
10"	1¼"	Knipex	87 51 250	**10U044**
Push Button Ergonomic Handle				
7¼"	1½"	Knipex	87 02 180 SBA	**2DYY8**
10"	2"	Knipex	87 28 250 SBA	**10U043**
10"	2"	Knipex	87 02 250 SBA	**2DYY6**
12"	2¾"	Knipex	87 02 300 SBA	**2DYY7**
Self-Adjusting Dipped Handle				
10"	1¼"	Knipex	85 01 250 US	**10U037**
Spanner Pliers				
Push Button Dipped Handle				
10"	1¼"	Knipex	87 41 250 SBA	**2DYY9**
Straight Jaw				
Groove Joint Comfort Grip Handle				
6"	1"	Milwaukee	48-22-6306	**36XE09**
10"	2"	Milwaukee	48-22-6310	**36XE06**
12"	2¼"	Milwaukee	48-22-6312	**36XE11**
16"	4¼"	Milwaukee	48-22-6316	**36XE02**
20"	5½"	Milwaukee	48-22-6320	**36XE05**

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Groove Joint Dipped Handle				
6⅝"	15/16"	Westward	—	**1UKL7**
10¼"	1¼"	Westward	—	**1UKH8**
20"	4½"	Westward	53JX04	**53JX04**
Tongue and Groove Cushion Grip Handle				
9½"	1½"	Channellock	420CB	**3ZZT6**
10"	2"	Channellock	430CB	**3ZZT8**
Tongue and Groove Dipped Handle				
4½"	½"	Channellock	424	**1YHL5**
6½"	⅞"	Channellock	426	**4CR39**
8"	1½"	Channellock	428	**10N541**
9½"	1½"	Channellock	420	**4CR37**
10"	2"	Channellock	430	**4CR40**
10"	2"	Channellock	415	**5LJ46**
12"	2¼"	Channellock	440	**4CR41**
16½"	4¼"	Channellock	460	**4CR43**
20¼"	5½"	Channellock	480	**5LJ49**
V-Jaw				
Groove Joint Dipped Handle				
5"	1"	Knipex	87 03 125	**38UT93**
7¼"	1½"	Knipex	88 01 180	**38GU41**
10"	2"	Knipex	88 01 250	**38GU42**
10"	2⅛"	Westward	53JX05	**53JX05**
12"	2 ¾"	Knipex	88 01 300	**38GU43**
12"	2¾"	Westward	53JX03	**53JX03**
16"	3½"	Knipex	88 01 400	**30WJ79**
Groove Joint Ergonomic Handle				
10"	2"	Knipex	88 08 250 US	**38GU50**
10"	2"	Knipex	88 02 250	**38GU33**
10"	2"	Knipex	88 02 250 T BKA	**54JD80**
12"	2¾"	Knipex	88 02 300 T BKA	**54JD81**
Push Button Dipped Handle				
5"	⅞"	Knipex	86 03 125 SBA	**35HU01**
5"	1"	Knipex	87 01 125	**5ETP4**
7¼"	1½"	Knipex	87 01 180	**38GU37**
7¼"	1½"	Knipex	87 01 180 SBA	**2DYY5**
10"	2"	Knipex	87 11 250	**38GU39**
10"	2"	Knipex	87 01 250	**38GU38**
10"	2"	Knipex	87 01 250 SBA	**2DYY1**
10"	2"	Knipex	87 21 250 SBA	**54JD89**
12"	2¾"	Knipex	87 01 300	**38GU32**
12"	2¾"	Knipex	87 01 300 SBA	**2DYY2**
12"	2¾"	Knipex	87 21 300 SBA	**54JD86**
16"	3½"	Knipex	87 01 400 SBA	**2DYY3**
22"	4½"	Knipex	87 01 560	**2DYY4**
Push Button Ergonomic Handle				
7¼"	1½"	Knipex	87 02 180	**38GU49**
7¼"	1⅜"	Knipex	86 05 180 T BKA	**54JD75**
7¼"	1½"	Knipex	87 02 180 T BKA	**54JD77**
10"	1¾"	Knipex	86 05 250 T BKA	**54JD76**
10"	2"	Knipex	87 02 250 T BKA	**54JD78**
12"	2¾"	Knipex	87 02 300 T BKA	**54JD79**
Quick Adjust Comfort Grip Handle				
8"	1¾"	Milwaukee	48-22-6208	**36XE03**
10"	2"	Milwaukee	48-22-6210	**36XE10**
12"	2¾"	Milwaukee	48-22-6212	**36XE08**
Tongue and Groove Dipped Handle				
6½"	⅞"	Channellock	412	**5EPV0**
6½"	1 1/16"	Channellock	GL6	**5LJ58**
9½"	1½"	Channellock	422	**4CR38**
9½"	1¼"	Channellock	GL10	**5LJ56**
10"	2"	Channellock	432	**3WDG4**
12"	2¼"	Channellock	442	**4CR42**
12½"	2¼"	Channellock	GL12	**5LJ57**


No. 1UKJ3


No. 3R264

Slip Joint Pliers

WESTWARD · PROTO

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Curved Jaw Dipped Handle				
6⅛"	1"	Westward	—	**1UKJ3**
6½"	½"	Proto	J276GXL	**46C191**
6 1/16"	3/16"	Proto	J202G	**3R186**
8"	1 1/16"	Proto	J278GXL	**46C193**
8¼"	1¼"	Westward	—	**1UKJ5**
10"	31/64"	Proto	J280GXL	**46C195**
Ergonomic Handle				
6⅛"	1"	Westward	—	**1UKJ4**
6½"	½"	Proto	J2766XL	**46C192**
8"	1 1/16"	Proto	J278XL	**46C194**
10"	31/64"	Proto	J2800XL	**46C196**

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Flat Jaw Dipped Handle				
5 13/16"	9/32"	Proto	J275G	**3R260**
6 9/16"	1"	Proto	J276G	**3R262**
8 1/16"	1"	Proto	J278G	**3R265**
9 9/16"	1 1/16"	Proto	J280G	**3R267**
Plain Handle				
5¾"	9/32"	Proto	J275	**3R259**
6½"	⅜"	Proto	J276	**3R261**
8"	1"	Proto	J278	**3R264**
9½"	15/32"	Proto	J280	**3R266**

PROTO® ★ WESTWARD®

KLEIN TOOLS® IRWIN® Milwaukee®

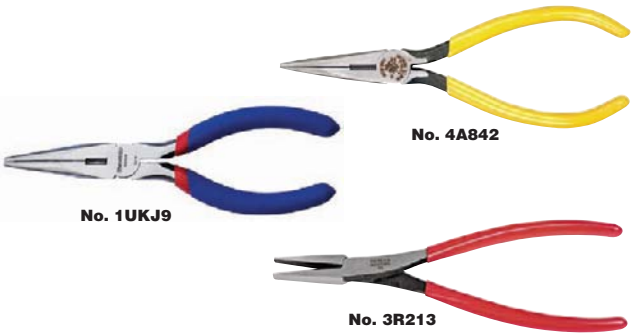
Long and Needle Nose Pliers

- Hardened steel
- Corrosion-re sistant

Proto®—No. 1C040 has an extra-long handle for better access to confined areas. Bent-nose models reach around obstructions.

Klein Tools®—Knurled jaws for sure wrapping and looping. Dipped handles.

Milwaukee®—Feature reaming head design, bolt cutter-threads, wire stripper and needle nose functionality.



Overall Length	Jaw Length	Jaw Width	Gripping Surface	Tip Width	Side Cutter	Brand	Item No.
Round Nose Pliers							
4½"	1⅛"	7/16"	Smooth	3/16"	No	Proto	**10G671**
5"	1"	—	Serrated	⅛"	No	Westward	**53JX08**
Needle Nose Pliers							
4⅞"	1 1/16"	—	Serrated	¼"	Yes	Westward	**53JW98**
4⅞"	1 3/16"	7/16"	Serrated	¼"	No	Proto	**3R269**
5 9/16"	1 11/16"	½"	Smooth	9/32"	No	Proto	**3R218**
5⅞"	1¼"	—	Smooth	⅛"	No	Westward	**53JX01**
6"	2"	—	Serrated	⅛"	Yes	Westward	**53JW95**
6⅜"	2"	5/16"	Serrated	3/16"	Yes	Westward	**1UKK1**
6⅝"	1⅞"	1 1/16"	Serrated	1/16"	No	Klein Tools	**10A989**
6⅝"	1⅞"	1 1/16"	Serrated	3/32"	Yes	Klein Tools	**2DFB6**
6⅝"	1⅞"	1 1/16"	Serrated	⅜"	No	Proto	**3R203**
6⅝"	1⅞"	1 1/16"	Serrated	⅜"	Yes	Proto	**3R211**
7 5/16"	1 7/16"	1 1/16"	Serrated	3/32"	Yes	Klein Tools	**2DFB7**
7 25/32"	1 9/16"	17/32"	Serrated	7/16"	No	Proto	**3R215**
8 9/16"	2 5/16"	1"	Serrated	½"	Yes	Klein Tools	**2DFB8**
11⅛"	3⅛"	⅜"	Serrated	5/32"	No	Westward	**1UKK6**
Bent							
4½"	⅞"	½"	Smooth	⅛"	No	Westward	**53JW99**
Coil Spring							
4⅞"	1 3/16"	7/16"	Smooth	¼"	No	Proto	**3R268**
5 9/16"	1 11/16"	½"	Serrated	9/32"	Yes	Proto	**3R217**
7½"	2⅝"	¾"	Smooth	⅜"	Yes	Proto	**4LT94**
Extended Handles, Slim Head							
8 7/16"	2 5/16"	1"	Smooth	⅛"	Yes	Klein Tools	**5C564**
Extended Handles, Slim Head w/Stripper							
8 7/16"	2 5/16"	1"	Smooth	⅛"	Yes	Klein Tools	**4A863**
Extra Long Handle							
11⅜"	2 9/16"	23/32"	Smooth	13/32"	No	Proto	**1C040**
11 9/16"	2 13/16"	23/32"	Smooth	13/32"	No	Proto	**1C042**
Extra Thin Nose							
5⅝"	1 11/16"	15/32"	Smooth	1/16"	No	Klein Tools	**2DHA7**
6 3/32"	2 5/32"	½"	Serrated	9/32"	No	Proto	**3R207**

Overall Length	Jaw Length	Jaw Width	Gripping Surface	Tip Width	Side Cutter	Brand	Item No.
Strips 12 AWG Wire, Crimps Connectors, Lugs and Terminals, Extended Handle							
8 7/16"	2 5/16"	1"	Smooth	⅛"	Yes	Klein Tools	**2DGZ3**
Thin Nose							
4 13/16"	1 1/16"	7/16"	Smooth	1/16"	No	Klein Tools	**2DEY5**
4 13/16"	1 1/16"	7/16"	Serrated	1/16"	No	Klein Tools	**2DEY4**
6⅝"	1⅞"	1 1/16"	Serrated	1/16"	Yes	Klein Tools	**2DEW4**
6⅝"	1⅞"	1 1/16"	Serrated	3/32"	No	Klein Tools	**10A988**
6⅝"	1⅞"	1 1/16"	Serrated	3/32"	Yes	Klein Tools	**4A842**
7 3/16"	2 7/16"	1 1/16"	Smooth	3/32"	Yes	Klein Tools	**4A864**
Thin Nose, Knurled Jaws for Sure Wrapping and Looping							
7⅝"	1⅞"	1 1/16"	Serrated	1/16"	No	Klein Tools	**2DEX8**
Thin Nose, Widely Curved Handles							
5⅝"	1 11/16"	½"	Smooth	5/16"	No	Klein Tools	**2DEY6**
Very Thin Nose							
6 1/16"	2⅛"	1 1/16"	Serrated	1 1/32"	No	Proto	**3R205**
Long Nose Pliers							
6"	1 25/32"	¾"	Serrated	⅛"	Yes	Irwin Vise-Grip	**4YU71**
6"	2"	5/16"	Serrated	⅛"	Yes	Westward	**1UKJ9**
8½"	2 7/16"	⅜"	Serrated	3/16"	Yes	Westward	**1UKK2**
8 9/16"	2 5/16"	1"	Serrated	⅛"	Yes	Klein Tools	**3LY17**
13½"	3⅞"	—	Serrated	⅛"	Yes	Westward	**53JW96**
Bent							
6 5/16"	1⅝"	¾"	Serrated	⅜"	No	Proto	**3R209**
6½"	2⅜"	⅜"	Serrated	3/16"	Yes	Westward	**1UKK4**
10⅞"	4⅛"	⅜"	Serrated	5/32"	No	Westward	**1UKK7**
13¼"	2⅞"	—	Serrated	⅛"	Yes	Westward	**53JW97**
Reaming Head Up to 1", On-Board Fish Tape Puller							
8"	2½"	29/64"	Serrated	7/64"	Yes	Milwaukee	**36XE01**
Thin Nose							
7 3/16"	2 7/16"	1 1/16"	Serrated	1/16"	Yes	Klein Tools	**2DEW5**
Duckbill Pliers							
7 25/32"	1 9/16"	17/32"	Serrated	7/16"	No	Proto	**3R213**

KLEIN TOOLS® ★ WESTWARD® Milwaukee®

Linesman Pliers

- Hardened steel
- Corrosion-resistant

KLEIN TOOLS®

2000 Series®—Feature heavy-duty cutting knives. Cuts nails, aluminum conductor steel reinforced (ACSR) cable, screws, and most hardened wire.

Journeyman™—Feature dual-material handles.

MILWAUKEE®

Features integrated crimper and on-board fish tape puller.



Features	Overall Length	Jaw Length	Jaw Width	Brand	Item No.
Square Nose					
Side Cutting	9⅜"	1 19/32"	1¼"	Klein Tools	**2DGZ5**
Iron Workers Plier, Side Cutter	9¼"	1 9/32"	1 5/32"	Klein Tools	**2DEV7**
Iron Workers Plier	9¼"	1 9/32"	1 5/32"	Klein Tools	**2VCZ6**
High Leverage w/Spring Return	9⅜"	1 19/32"	1¼"	Klein Tools	**5C563**
High Leverage	9¼"	1 19/32"	1¼"	Klein Tools	**10A983**
Connector Crimping	8⅝"	1 25/32"	1 1/32"	Klein Tools	**2DFF2**
2000 Series® High Leverage	9⅜"	1 19/32"	1¼"	Klein Tools	**5LL71**
—	8 11/16"	1 7/16"	1 7/32"	Klein Tools	**2DGZ1**
	9⅛"	1 9/32"	1 5/32"	Klein Tools	**10A984**
Pipe Grip					
Journeyman™	8¾"	1 25/32"	1 1/32"	Klein Tools	**10A982**
New England Tapered Nose					
2000 Series® High Leverage	8 13/16"	1 7/16"	1 7/64"	Klein Tools	**10A977**
New England Nose, Bolt-Thread Holding					
High Leverage, Side Cutting	9½"	1 19/32"	1¼"	Klein Tools	**2DHB3**
High Leverage	9⅜"	1 19/32"	1¼"	Klein Tools	**10A979**
2000 Series®	9⅜"	1 19/32"	1¼"	Klein Tools	**10A980**
New England Nose					
w/Crimper	9"	1 19/32"	1¼"	Klein Tools	**2DHB5**
Streamlined Design	7 7/16"	1 9/32"	1 1/16"	Klein Tools	**2DGY9**
Side Cutting	8 11/16"	1 7/16"	1 3/16"	Klein Tools	**2DEV9**
Journeyman™ High Leverage w/Fish Tape Puller	9½"	1 19/32"	1¼"	Klein Tools	**3LY15**
Journeyman™ High Leverage w/ Connector Crimping Die	9½"	1 19/32"	1¼"	Klein Tools	**3LY14**

Features	Overall Length	Jaw Length	Jaw Width	Brand	Item No.
Journeyman™ High Leverage Linesman Puller	9½"	1 19/32"	1¼"	Klein Tools	**3LY13**
Journeyman™ 2000 Series® High Leverage	9½"	1 19/32"	1¼"	Klein Tools	**3LY16**
Journeyman™	8 13/16"	1 7/16"	1 3/16"	Klein Tools	**10A978**
High Leverage w/Fish Tape Puller	9⅜"	1 19/32"	1¼"	Klein Tools	**2DGY8**
	9⅜"	1 19/32"	1¼"	Klein Tools	**4A833**
High Leverage w/Crimper and Fish Tape Puller	9½"	1 19/32"	1¼"	Klein Tools	**10A985**
High Leverage w/Crimper	9⅜"	1 19/32"	1¼"	Klein Tools	**2DGY7**
High Leverage w/Connector Crimping Die	9⅜"	1 19/32"	1¼"	Klein Tools	**4A835**
High Leverage, Filler Puller	9½"	1 19/32"	1¼"	Klein Tools	**2DFB5**
High Leverage	8 11/16"	1 7/16"	1 3/16"	Klein Tools	**4A836**
	9½"	1 19/32"	1¼"	Klein Tools	**5C565**
	9⅜"	1 19/32"	1¼"	Klein Tools	**4A837**
Heavy Duty Cutting	9½"	1 19/32"	1¼"	Klein Tools	**2DHB2**
2000 Series® High Leverage	7⅞"	1 9/32"	1 1/32"	Klein Tools	**10A975**
	8 11/16"	1 7/16"	1 7/64"	Klein Tools	**10A976**
	9⅜"	1 19/32"	1¼"	Klein Tools	**4A834**
—	9¾"	1 9/16"	1¼"	Westward	**1UKL8**
Carbide Edge Cutting Blades, Reaming Head					
High Leverage w/Crimper and Fish Tape Puller	9"	1 39/64"	1 45/64"	Milwaukee	**36XE13**
Iron Carbide Edge, Optimized Blade Angle, Angled Handle, Comfort Grips, Rust Resistant Forged Strength Design	8 57/64"	1 9/32"	31/64"	Milwaukee	**48ZT17**
—	4½"	¾"	¼"	Westward	**53JX10**
	8½"	1¼"	1 1/32"	Westward	**1UKJ7**
	8"	1⅜"	1"	Westward	**53JW94**


No. 4A841


No. 3R188


No. 53JW92


No. 38TG67

Diagonal Pliers

- Hardened steel
- Corrosion-resistant

Description	Overall Length	Jaw Width	Jaw Length	Handle Type	Brand	Item No.
Angled Head Diagonal Cutting Pliers						
2000 Series® High Leverage	8 1/16"	1 3/16"	13/16"	Dipped Pistol Grip	Klein Tools	**4A840**
Angled Head	8 1/8"	1 7/32"	3/4"	Dipped Pistol Grip	Proto	**4LT91**
Curved Lap Joint	7 3/4"	1 1/16"	1 1/32"	Dipped	Channellock	**5LJ48**
Curved Lap Joint	9"	1 1/16"	1 1/64"	Dipped	Channellock	**10N552**
Journeyman™ High Leverage	8 1/16"	1 3/16"	13/16"	Ergonomic	Klein Tools	**4A841**
Stanley® FatMax®	10"	1 3/16"	1"	Ergonomic	STANLEY	**5ME38**
Ultra High Leverage, 12° Angle	10"	1 1/8"	1"	Dipped Pistol Grip	Knipex	**2DYX6**
Diagonal Cutting Pliers						
American Nose	6"	1 1/32"	7/8"	Dipped Pistol Grip	Westward	**1UKL1**
American Nose	6"	1 1/32"	7/8"	Ergonomic	Westward	**1UKL2**
Angled, Flush	8"	1 1/8"	7/8"	Ergonomic	Irwin Vise-Grip	**10J886**
Angled Head, Bevel	8"	1 1/8"	9/10"	Ergonomic	Knipex	**54JD73**
Angled Head, Bevel	10"	1 1/4"	1 61/64"	Ergonomic	Knipex	**54JD74**
Cushion Grip	7"	1 5/32"	13/16"	Ergonomic	Irwin Vise-Grip	**4YU76**
Electronics	5"	9/64"	13/16"	Dipped Pistol Grip	Knipex	**38TG91**
Flush	4 1/2"	7/16"	35/64"	Ergonomic	Knipex	**30WJ75**
Heavy-Duty, Tapered Nose	7 11/16"	31/32"	1"	Dipped Pistol Grip	Klein Tools	**2DGZ6**
Heavy-Duty Pliers	7 5/16"	7/8"	2 5/32"	Dipped Pistol Grip	Proto	**3R197**
Heavy-Duty Pliers	8 1/4"	7/16"	5/8"	Cushion Grip	SK	**13P210**
Heavy-Duty Pliers	8 1/2"	1 7/32"	3/4"	Dipped Pistol Grip	Proto	**4LT92**
Heavy-Duty Pointed Nose	6 1/4"	7/16"	3/4"	Dipped Pistol Grip	SK	**13P191**
Heavy-Duty Pointed Nose	8"	7/16"	3/4"	Dipped Pistol Grip	SK	**13P190**
Heavy-Duty Tapered Nose	6 1/8"	3/4"	13/16"	Dipped Pistol Grip	Klein Tools	**2DHA3**
Knife/Anvil Cutting Edge	7"	15/16"	1"	Dipped	Channellock	**10N551**
Long Reach w/Serrated Tip	11 1/8"	63/64"	2 7/32"	Dipped Pistol Grip	Proto	**3ML14**
Midget, Pointed Nose	4 1/2"	1 1/8"	13/16"	Ergonomic	Klein Tools	**2DEW7**
Midget, Pointed Nose, Extra Narrow Jaws	4 1/4"	13/32"	1/2"	Dipped Pistol Grip	Klein Tools	**2DEX6**
Narrow Nose	4 7/16"	9/16"	9/16"	Dipped Pistol Grip	Proto	**3R188**
Narrow Nose	4 5/8"	7/16"	13/32"	Dipped Pistol Grip	Proto	**3R272**
Narrow Nose	6 1/16"	3/4"	13/16"	Dipped Pistol Grip	Proto	**3R193**
Narrow Nose	7 5/16"	7/8"	1"	Dipped Pistol Grip	Proto	**3R195**
Narrow Straight, Bevel	5 1/4"	29/64"	1/2"	Dipped	Knipex	**38UT82**
Oval, Bevel	4 1/4"	1 13/64"	31/32"	Dipped Pistol Grip	Knipex	**38TG88**
Oval, Bevel	5"	9/64"	13/16"	Dipped Pistol Grip	Knipex	**38TG94**
Oval, Bevel	5"	9/64"	13/16"	Dipped Pistol Grip	Knipex	**38TG92**
Oval, Bevel	6"	13/16"	13/16"	Ergonomic	Irwin Vise-Grip	**4YU75**
Oval, Bevel	6 1/4"	1 13/64"	31/32"	Dipped Pistol Grip	Knipex	**38TG89**
Oval, Bevel	7 1/4"	1 15/64"	1 1/64"	Dipped Pistol Grip	Knipex	**38TG68**
Oval, Bevel	8"	1 1/8"	7/8"	Ergonomic	Knipex	**10U002**
Oval, Flush	6 1/8"	3/4"	3/4"	Dipped Pistol Grip	Greenlee	**5KPN5**
Oval, Flush	7"	1 7/64"	13/16"	Ergonomic	STANLEY	**10D207**
Oval, Flush	7 1/2"	7/8"	15/16"	Ergonomic	STANLEY	**5ME39**
Oval, Flush	8"	13/32"	15/16"	Cushion Grip	Milwaukee	**36XE12**
Oval, Side	6"	3/4"	9/16"	Dipped	Channellock	**38RW37**
Oval, Side	7 1/4"	1"	7/8"	Cushion Grip	Channellock	**38RW36**
Oval Head, Bevel	8"	1 1/8"	9/10"	Ergonomic	Knipex	**54JD71**
Oval Head, Bevel	10"	1 1/4"	1 61/64"	Ergonomic	Knipex	**54JD72**
Oval Head, Flush	5"	9/16"	1/2"	Cushion Grip	Westward	**53JW92**
Plastic Cutting w/Coil Spring	7 5/16"	29/32"	1"	Dipped Pistol Grip	Proto	**3R199**
Pliers	6"	3/8"	49/64"	Cushion Grip	Milwaukee	**36XE14**
Pliers	7"	29/64"	61/64"	Cushion Grip	Milwaukee	**36XE04**
Pliers	7 1/2"	17/32"	59/64"	Dipped	Channellock	**38UV70**
Pliers	8"	1 1/8"	7/8"	Ergonomic	Irwin Vise-Grip	**4YU77**
Pliers w/Box Joint	6"	1 3/16"	2 7/32"	Dipped	Channellock	**5LJ47**
Pliers w/Lap Joint	8"	1 3/16"	25/32"	Dipped	Channellock	**3LY73**

Description	Overall Length	Jaw Width	Jaw Length	Handle Type	Brand	Item No.
Pointed, Flat, Bevel	4 1/2"	7/16"	35/64"	2-Component	Knipex	**38UT90**
Pointed, Flush	4 1/2"	7/16"	35/64"	2-Component	Knipex	**38UT89**
Pointed Nose	4 1/4"	1/8"	7/8"	Cushion Grip	SK	**13P187**
Pointed Nose	7 3/8"	7/16"	1"	Dipped Pistol Grip	SK	**13P189**
Pointed Nose, Narrow Jaws	5 1/16"	1/2"	1 1/16"	Ergonomic	Klein Tools	**2DEX1**
Precision Tapered, Flush	5 1/2"	1/2"	1/2"	Dipped	Westward	**53JW93**
Round, Bevel	4 1/2"	5/8"	1/2"	2-Component	Knipex	**38UT83**
Round, Bevel	4 1/2"	7/16"	35/64"	2-Component	Knipex	**38UT84**
Round, Flush	4 1/2"	7/16"	35/64"	2-Component	Knipex	**38UT86**
Round, Flush	5"	19/32"	1/2"	Double Dipped	STANLEY	**2MU27**
Round, Flush	6"	3/4"	1 3/16"	Double Dipped	STANLEY	**2MU28**
Round, Flush	7"	7/8"	1"	Double Dipped	STANLEY	**2MU29**
Round, Small Bevel	5"	7/16"	25/64"	2-Component	Knipex	**38UT91**
Solid Joint	5"	13/16"	3/4"	Dipped Pistol Grip	Irwin Vise-Grip	**10J910**
Solid Joint	6"	53/64"	15/16"	Ergonomic	STANLEY	**10D206**
Spring Loaded, Electronics	5"	9/64"	13/16"	Cushion Grip	Knipex	**38TG93**
Spring Loaded, Flush Cut	5"	9/64"	13/16"	Dipped Pistol Grip	Knipex	**38TG90**
Straight, Bevel	4 3/4"	5/8"	1/2"	2-Component	Knipex	**38UT88**
Straight, Bevel	4 3/4"	5/8"	1/2"	2-Component	Knipex	**38UT87**
Straight, Bevel	5 1/4"	29/64"	1/2"	Dipped	Knipex	**38UT81**
Straight, Bevel	5 1/4"	29/64"	1/2"	Dipped	Knipex	**38UT79**
Straight, Bevel	5 1/4"	29/64"	1/2"	Dipped	Knipex	**38UT78**
Straight, Flush	5"	17/32"	23/64"	Ergonomic	Knipex	**5AHA7**
Tapered, Flush	7 11/16"	31/32"	1"	Dipped Pistol Grip	Klein Tools	**2DEW8**
Tapered Head	4"	7/16"	15/32"	Ergonomic	Xcelite	**4CP48**
Tapered Nose	5 1/16"	9/16"	1 1/16"	Dipped Pistol Grip	Klein Tools	**2DEX2**
Tapered Nose	6"	31/32"	3/4"	Ergonomic	Klein Tools	**2DEW2**
Tapered Nose, Semi Flush	6 1/8"	1 1/16"	13/16"	Dipped Pistol Grip	Klein Tools	**2DGZ4**
Tapered Nose w/Side Cutter	6 1/8"	1 1/16"	13/16"	Dipped Pistol Grip	Klein Tools	**10A991**
Tapered Pliers w/ Skinning Hole	6 1/8"	1 1/8"	13/16"	Ergonomic	Klein Tools	**2DEW9**
Ultra Slim	5"	9/64"	13/16"	Dipped Pistol Grip	Klein Tools	**2DEX7**
Diagonal Cutting Pliers, Lead Catcher						
Straight, Bevel	5 1/4"	29/64"	1/2"	Dipped	Knipex	**38UT80**
High Leverage Diagonal Cutting Pliers						
2000 Series® Pliers	8 1/16"	1 3/16"	13/16"	Dipped Pistol Grip	Klein Tools	**4A838**
American Nose	8"	1 1/16"	1"	Dipped Pistol Grip	Westward	**1UKN1**
American Nose	8 1/8"	1 1/8"	1"	Ergonomic	Westward	**1UKN2**
High Leverage	7"	1"	3/4"	Ergonomic	Greenlee	**5KPH4**
Journeyman™ 2000 Series®	8 1/8"	1 3/16"	13/16"	Ergonomic	Klein Tools	**2DFB4**
Journeyman™ 2000 Series® Angled Head	8 1/8"	1 3/16"	13/16"	Ergonomic	Klein Tools	**3LY21**
Journeyman™ Angled Head	8 1/8"	1 3/16"	13/16"	Ergonomic	Klein Tools	**3LY20**
Journeyman™ Pliers	8 1/8"	1 3/16"	13/16"	Ergonomic	Klein Tools	**3LY19**
Lap Joint	7"	1 3/16"	25/32"	Dipped	Channellock	**5LJ43**
Long Reach	11 1/8"	63/64"	1"	Dipped Pistol Grip	Proto	**3ML13**
Pliers	7 1/8"	1 3/16"	13/16"	Dipped Pistol Grip	Klein Tools	**10A990**
Pliers	8 1/16"	1 3/16"	13/16"	Dipped Pistol Grip	Klein Tools	**4A839**
Pliers	9-3/13"	1 3/16"	7/8"	Dipped Pistol Grip	Klein Tools	**2VCZ7**
Ultra High Leverage	8"	1 1/8"	15/16"	Dipped Pistol Grip	Knipex	**10T994**
Ultra High Leverage	10"	1 1/8"	1"	Dipped Pistol Grip	Knipex	**2DYX4**
Ultra High Leverage Cushion Grip	8"	1"	7/8"	Ergonomic	Knipex	**2DYX5**
Ultra High Leverage Cushion Grip	10"	1 15/64"	1 1/4"	Ergonomic	Knipex	**38TG66**
Ultra High Leverage Cushion Grip	10"	1 15/64"	1 1/4"	Ergonomic	Knipex	**38TG67**
Precision Diagonal Cutting Pliers						
Oval, Flush	4 1/2"	7/16"	3/8"	Dipped Pistol Grip	Proto	**10G688**
Tapered, Semi-Flush	4 1/4"	7/16"	1/2"	Dipped Pistol Grip	Klein Tools	**2DEX4**
Tapered, Semi-Flush	4 1/4"	7/16"	1/2"	Dipped Pistol Grip	Klein Tools	**2DEX5**



No. 10D199


No. 1UKN3

End Cutting Nippers

Overall Length	Jaw Length	Jaw Width	Cutting Edge	Brand	Item No.
4 1/2"	1 1/8"	7/16"	Yes	Proto	**10G686**
6 1/2"	25/64"	1 11/32"	Yes	STANLEY	**10D199**
7"	1"	1 9/16"	—	Westward	**1UKN3**
8"	3/8"	1 3/16"	End	Klein Tools	**2DGZ9**
8 1/4"	5/16"	1 3/4"	Semi-Flush	Proto	**3R258**
10"	3/4"	1 3/16"	—	Westward	**1UKN5**

PROTO® KNIPEX® CHANNELLOCK® WORK HARD. SWEAT BLUE.®
★WESTWARD® IMPERIAL®

Retaining Ring and Snap Ring Pliers







Tip Dia.	▶CHOOSE: Tip Angle	For Shaft Dia.	For Bore Dia.	Overall Length	Brand	Item No.
Retaining Ring Plier						
Internal						
0.025"	0°	—	¼" to ⅝"	5⅜"	Proto	**3R330**
0.035"	0°	—	⅝" to ½"	5½"	Knipex	**H3967**
0.035"	0°	—	8mm to 13mm	5½"	Knipex	**38UT62**
0.036"	45°	—	⅝" to ½"	5 3/16"	Knipex	**H3967**
0.038"	0°	—	⅜" to 9/16"	5⅜"	Proto	**5C630**
0.038"	45°	—	⅜" to 1"	5⅜"	Proto	**3R332**
0.046"	0°, 45°, 90°	—	½" to 1"	5¾", 5 3/16"	Knipex	**H3968**
0.046"	0°	—	⅝" to ½"	5¾"	Knipex	**10N913** *
0.046"	0°	—	½" to 1"	5¾"	Knipex	**10N914** *
0.046"	90°	—	⅝" to ½"	5 3/16"	Knipex	**H3967**
0.046"	90°	—	⅝" to ½"	5¼"	Knipex	**10T948** *
0.046"	90°	—	½" to 1"	5¼"	Knipex	**10T949** *
0.047"	90°	—	12mm to 25mm	5¼"	Knipex	**38UT68**
0.051"	0°	—	12mm to 25mm	5½"	Knipex	**38UT63**
0.070"	0°	—	1 1/16" - 13/4", 1 1/16" - 1 3/4", 1 1/16" - 2"	6½"	Proto	**5C631**
0.071"	0°	—	19mm to 60mm	7¼"	Knipex	**38UT64**
0.071"	90°	—	19mm to 60mm	6 23/32"	Knipex	**38UT69**
0.078"	0°, 45°, 90°	—	¾" to 2⅜"	7¼", 6¾"	Knipex	**H3969**
0.078"	0°	—	¾" to 2⅜"	8"	Knipex	**10N915** *
0.078"	90°	—	¾" to 2⅜"	6½"	Knipex	**10T950** *
0.087"	30°	0° to 15/36"	—	8"	Knipex	**38UT71**
0.090"	0°	—	1 13/16" to 3"	9"	Proto	**5C600**
0.091"	0°	—	40mm to 100mm	9"	Knipex	**38UT65**
0.091"	90°	—	40mm to 100mm	8½"	Knipex	**38UT70**
0.093"	0°, 45°, 90°	—	1 9/16" to 4"	9", 8½"	Knipex	**H3970**
0.093"	0°	—	1 9/16" to 4"	8 55/64"	Knipex	**10N916** *
0.093"	90°	—	1 9/16" to 4"	8¼"	Knipex	**10T951** *
0.120"	0°	—	3 1/16" to 6"	16½"	Proto	**3R312**
0.125"	0°, 45°, 90°	—	3⅜" to 5½"	12¾", 12"	Knipex	**H3971**
0.125"	0°	—	3⅜" to 5½"	12¾"	Knipex	**10T947** *
0.125"	90°	—	3⅜" to 5½"	12"	Knipex	**10T952** *
0.126"	0°	—	85mm to 140mm	12½"	Knipex	**38UT66**
0.140"	0°	—	4 13/16" to 11 13/16"	22½"	Knipex	**10N904**
0.177"	90°	—	252mm to 400mm	23 13/32"	Knipex	**38UT67**
0.187"	0°	—	9 15/16" to 15¾"	22¾"	Knipex	**10N905**
External						
0.023"	0°	¼" to 5/16"	¼" to 5/16"	5¼"	Proto	**3R329**
0.038"	0°	¼" to 21/32"	—	6⅛"	Proto	**5C599**
0.038"	90°	¼" to 1"	—	6⅛"	Proto	**3R331**
0.046"	0°, 45°, 90°	⅛" to ¾"	—	5¾", 5"	Knipex	**H3962**
0.046"	0°, 45°, 90°	⅜" to 1"	—	5¾", 5"	Knipex	**H3963**
0.046"	0°	⅛" to ⅜"	—	5¾"	Knipex	**10T953** *
0.046"	0°	⅜" to 1"	—	5¾"	Knipex	**10T954** *
0.046"	0°	1/64" to 5/32"	—	5½"	Knipex	**10N908**
0.046"	0°	5/32" to 9/32"	—	5½"	Knipex	**10N909**
0.046"	0°	⅛" to ¾"	—	5¾"	Knipex	**10T963** *
0.046"	90°	⅛" to ¾"	—	5¼"	Knipex	**10T958** *
0.046"	90°	⅜" to 1"	—	5¼"	Knipex	**10T959** *
0.046"	90°	⅛" to ¾"	—	5¼"	Knipex	**10T964** *
0.047"	0°	⅜" to 1"	—	5¾"	Knipex	**38GU31**
0.070"	0°	7/16" to 2"	—	6⅞"	Proto	**5C628**
0.070"	0°	¾" to 1 7/16"	—	7¼"	Knipex	**10N912**
0.071"	90°	13mm to 60mm	—	6¾"	Knipex	**38UT73**
0.078"	0°, 45°, 90°	¾" to 2⅜"	—	7¼", 6¾"	Knipex	**H3964**
0.078"	0°	⅜" to ½"	—	5½"	Knipex	**10N910**
0.078"	0°	¾" to 2⅜"	—	8"	Knipex	**10T955** *
0.078"	90°	¾" to 2⅜"	—	6½"	Knipex	**10T960** *
0.091"	90°	40mm to 100mm	—	8"	Knipex	**38UT74**
0.093"	0°, 45°, 90°	1 9/16" to 4"	—	9¼", 8"	Knipex	**H3965**
0.093"	0°	9/16" to 1 1/16"	—	5½"	Knipex	**10N911**
0.093"	0°	1 9/16" to 4"	—	9"	Knipex	**10T956** *
0.093"	90°	1 9/16" to 4"	—	8¼"	Knipex	**10T961** *
0.115"	0°	1½" to 3½"	—	9⅛"	Proto	**5C629**
0.120"	0°	3½" to 6½"	—	16½"	Proto	**3R313**
0.125"	0°, 45°, 90°	3⅜" to 5½"	—	12¾", 12"	Knipex	**H3966**
0.125"	0°	3⅜" to 5½"	—	12¾"	Knipex	**10T957** *
0.125"	90°	3⅜" to 5½"	—	12"	Knipex	**10T962** *
0.140"	0°	4 13/16" to 11 13/16"	—	22½"	Knipex	**10N906**
0.177"	90°	252mm to 400mm	—	22¾"	Knipex	**38UT72**
0.187"	0°	9 15/16" to 15¾"	—	22 7/16"	Knipex	**10N907**
Convertible						
0.023", 0.036", 0.047"	0°, 90°	⅛" to 1"	¼" to 1"	6¼"	Channellock	**38GU16**
0.036", 0.47", 0.070", 0.036", 0.047"	0°, 90°	¼" to 2"	⅜" to 2"	8"	Channellock	**3WDW5**
0.038"	0°	¼" to 43/64"	⅜" to 9/16"	5⅞"	Proto	**3R333**
0.038"	0°	5/16" to 45/64"	5/16" to 1 1/16"	6"	Westward	**33HD62**
0.038"	18°	¼" to 43/64"	⅜" to 9/16"	6"	Proto	**4JV92**
0.038"	45°	½" to 25/32"	⅜" to 9/16"	5¾"	Proto	**3R317**
0.038"	45°	5/16" to 45/64"	5/16" to 1 1/16"	6"	Westward	**33HD72**
0.038"	90°	—	⅜" to 1"	5¾"	Proto	**4JV83**
0.038"	90°	⅛" to 5/32"	¾" to 1"	5 1/16"	Proto	**3R318**
0.038"	90°	5/16" to 45/64"	5/16" to 1 1/16"	6"	Westward	**33HD69**
0.047"	0°	1 1/16" to ⅞"	⅝" to 1 1/64"	5⅞"	Proto	**3R319**
0.047"	0°	15/32" to 63/64"	½" to 1"	6"	Westward	**33HD66**
0.047"	45°	13/16" to 1"	1" to 1 1/64"	5¾"	Proto	**3R320**
0.047"	45°	15/32" to 63/64"	½" to 1"	6"	Westward	**33HD67**
0.047"	90°	3/16" to ¼"	1 1/16" to 1⅜"	5 1/16"	Proto	**3R321**
0.047"	90°	15/32" to 63/64"	5/16" to 1 1/16"	6"	Westward	**33HD70**
0.055"	0°	½" to 1½"	½" to 1½"	6¼"	Westward	**4YP50**
0.070"	0°	15/16" to 1 7/16"	1 1/16" to 1¾"	7½"	Proto	**3R328**
0.070"	0°	45/64" to 1 51/64"	1 1/16" to 1⅛"	8"	Westward	**33HD64**
0.070"	18°	15/16" to 1 7/16"	1 1/16" to 1¾"	7¼"	Proto	**4JV85**
0.070"	45°	1" to 2"	1 1/16" to 1¾"	7⅜"	Proto	**3R322**
0.070"	45°	45/64" to 1 57/64"	1 1/16" to 1⅞"	8"	Westward	**33HD68**
0.070"	90°	7/16" to ¾"	1 7/16" to 2"	7⅛"	Proto	**3R323**
0.070"	90°	49/64" to 1 57/64"	1 1/16" to 1⅞"	8"	Westward	**33HD65**
0.070"	90°	7/16" to 2"	1 7/16" to 2"	7¼"	Proto	**4JV84**
0.090"	0°	1½" to 3½"	1 13/16" to 3"	9¼"	Proto	**3R324**
0.090"	0°	1 7/32" to 3 15/64"	1¼" to 3¼"	9"	Westward	**33HD63**
0.090"	45°	1½" to 1¾"	1 13/16" to 3"	9"	Proto	**3R325**
0.090"	45°	1 7/32" to 3 15/64"	1¼" to 3¼"	9"	Westward	**33HD71**
0.090"	90°	1 13/16" to 3"	1 13/16" to 3"	8⅝"	Proto	**10G635**
0.090"	90°	1 7/32" to 3 15/64"	1¼" to 3¼"	9"	Westward	**33HD73**
0.090", 0.120"	15°, 90°	1½" to 4"	1 13/16" to 4"	10"	Channellock	**3WCJ6**
Lock Ring Plier						
Internal						
—	0°	⅛" to ¾"	—	7 13/16"	Proto	**3R221**
—	0°	⅛" to 1¼"	—	10 9/16"	Proto	**3R223**

**** Inserted, nondetachable tips made from high-density spring steel for added strength and 30% more stability.***

No. of Pieces	Tip Dia.	Tip Angle	For Shaft Dia.	For Bore Dia.	Overall Length	Includes	Brand	Item No.
Retaining Ring Plier Sets								
Internal/External								
2	0.047"	0°	25/64" to 63/64"	1¼"	5½", 5¾"	—	Knipex	**38UU05**
2	0.078"	0°	¾" to 2 23/64"	1¼"	8"	—	Knipex	**38UU06**
4	0.049", 0.070"	0°	½" to 1", ¾" to 2⅜"	½" to 1", ¾" to 2⅜"	5¾", 8", 5¾", 8"	Nylon Pouch with Locking Clip	Knipex	**3JXP2**
4	0.049"	0°, 90°	⅜" to 1"	½" to 1"	5¾", 5 3/16", 5¾", 5"	Nylon Pouch with Locking Clip	Knipex	**3JXP3**
4	0.035", 0.070"	0°	⅛" to 25/64", ¾" to 2⅜"	⅜" to ½", ¾" to 2⅜"	5¾", 8", 5¾", 8"	Nylon Pouch with Locking Clip	Knipex	**3JXP4**
4	0.035", 0.070"	90°	⅛" to 25/64", ¾" to 2⅜"	5/16" to ½", ¾" to 2⅜"	5 3/16", 6¾", 5", 6¾"	Nylon Pouch with Locking Clip	Knipex	**3JXP5**
4	0.071"	0°, 90°	¾" to 2⅜"	¾" to 2⅜"	6¾", 8"	Nylon Pouch with Snap Lock	Knipex	**10N809**
4	0.049", 0.070"	0°	¾" to 2⅜"	½" to 2⅜"	5¾", 8"	Nylon Pouch with Snap Lock	Knipex	**10N810**
4	0.038", 0.047", 0.070", 0.090"	0°	½" to 1"	½" to 2 23/64"	12 13/64"	Storage Tray	Knipex	**38UT22**
4	0.049", 0.070"	90°	25/64" to 63/64", ¾" to 2 23/64"	1¼"	5 1/16", 7"	Tool Roll	Knipex	**38UU07**
6	0.038", 0.047", 0.070"	0°, 90°	¼" to 2"	⅜" to 2"	9½"	Plastic Case	Imperial	**40AW29**
6	0.038", 0.047", 0.070", 0.090"	0°	¾" to 2 23/64"	15/32" to 2 23/64"	13 25/32"	Foam Tray	Knipex	**38UR98**
8	0.023", 0.036", 0.047"	0°, 90°	½" to 1"	½" to 2 23/64"	12 1/64"	Storage Tray	Knipex	**38UT23**
18	0.038", 0.047", 0.070"	0°, 45°, 90°	¼" to 2"	⅜" to 2"	6¼"	Plastic Case	Proto	**5C601**
Internal								
4	0.049"	45°	—	¼" to 2¼"	5¾", 8", 9"	Plastic Pouch	Knipex	**10U091**
External								
4	0.070"	45°	⅛" to 25/64", 25/64" to 63/64", ¾" to 2 23/64", 1 37/64 to 3 15/16"	—	5¼", 7¼", 8¼"	Plastic Pouch	Knipex	**10U092**
18	0.108", 0.120"	0°, 15°, 45°, 90°	1½" to 3¾"	2 1/16" to 4"	9½"	Carrying Case	Proto	**3R309**
Convertible								
2	0.038", 0.047", 0.070"	0°, 15°, 45°, 90°	¼" to 2"	⅜" to 2"	6¼"	Plastic Case	Imperial	**40AW31**
3	0.023", 0.120"	15°, 90°	⅛" to 4"	¼" to 4"	6¼", 8", 10"	(15) Pairs of Color Coded Interchangeable Tips	Channellock	**3UWG5**
4	0.038", 0.070"	18°, 90°	¼" to 2"	⅜" to 2"	6", 7¼"	—	Proto	**4JV80**
6	0.038", 0.047", 0.070"	0°, 90°	¼" to 3 1/32"	⅜" to 3"	5 11/16", 5⅞", 7⅛", 7½"	Carrying Case	Proto	**4JV79**
12	0.038", 0.047", 0.070", 0.090"	0°, 45°, 90°	¼" to 3 1/32"	⅜" to 3"	5 11/16", 5¾", 5⅞", 7⅛", 7⅜", 7½", 8⅝", 9", 9¼"	Carrying Case	Proto	**5C602**
Snap Ring Plier Sets								
Internal/External								
12	0.038", 0.047", 0.070", and 0.090"	0°, 45°, 90°	5/16" to 3¼"	5/16" to 3¼"	6", 9"	Carrying Case	Westward	**33HD61**
12	0.037", 0.039", 0.047", 0.074"	0°, 45°, 90°	⅜" to 1¾"	⅜" to 1¾"	6½"	Carrying Case	Westward	**33HD60**
Convertible								
4	0.045", 0.060"	45°, 90°	⅜" to 2"	⅜" to 2"	6"	—	Westward	**4YP48**



No. 48UV50



No. 3R181

Safety Wire Twister Pliers

PROTO® WESTWARD®

Cut through tough stainless steel safety wire. Diagonal nose allows access in tight work areas. Automatic spring return pliers are ideal for aviation and other applications. Reversible pliers have right and left twist capability and meet SAE Aerospace Standard AS 567 twister requirements.

Description	Wire Size	Overall Length	Brand	Item No.
Individual Pliers				
1-Way Automatic Spring Return	0.020" to 0.041"	8⅜"	Proto	**3R177**
1-Way Automatic Spring Return	0.020" to 0.060"	10⅜"	Proto	**3R178**
Automatic Spring Return	0.020" to 0.060"	10⅜"	Proto	**3R179**
Deep Reach Safety Wire Twister, Manual	0.020" to 0.060"	18⅛"	Proto	**3R180**
Reversible	0.020" to 0.041"	8¾"	Proto	**4JV75** *
Reversible	0.020" to 0.060"	11"	Proto	**4JV76** *
Safety Wire Twister Plier, Automatic	0.020" to 0.060"	10⅜"	Proto	**3R182**
Safety Wire Twister Plier, Automatic	0.020" to 0.060"	10½"	Westward	**48UV52**
Safety Wire Twister Plier, Automatic	0.020" to 0.060"	11¼"	Westward	**48UV50**
Safety Wire Twister Plier, Automatic	0.020" to 0.041"	12¼"	Proto	**10G681** *
Safety Wire Twister Plier, Manual	0.020" to 0.060"	10½"	Westward	**48UV51**
3-Pc. Plier Set				
Includes 6 and 9" Wire Twister Pliers and Deep Reach Wire Twister w/Case			Proto	**3R181**

Spring Return



Thin Long Nose Serrated Jaw Pliers



Diagonal Cutter, Flush



Diagonal Cutter, Semi-Flush

ESD Safe Pliers and Cutters

Xcelite® KNIPEX Erem®
WESTWARD® PROTO®

For a wide range of electronic assembly requirements. Copper alloy rivet eliminates friction, while copper alloy joint maintains cutting edge and tip alignment. Plastisol, nonslip cushion handles, standard.

Mini Pliers Sets—Dual leaf spring design allows jaws to be maintained in open position. Fitted with slip-resistant electrostatic dissipative (ESD) cushioned grips. No. 2TJ50 includes 4¼" diagonal cutter with semiflush cut tapered head; 4¼" diagonal cutter with flush cut oval head; 4½" curved long nose with serrated jaw; and 4¾" long nose with cutter. No. 2TJ51 includes 4¾" diagonal cutter with semiflush cut tapered head; 4¼" diagonal cutter with flush cut oval head; 5¾" slim needle nose with nonserrated jaw; 4¾" slim needle nose with serrated jaw; 4½" transverse end cutter with flush cut; and 4½" angled cutter with flush cut.

Description	Overall Length	Brand	Mfr. Model	Item No.
Hard Wire Cutter	5 7⁄16 in	Xcelite	134CG	**4CP16**
Electronic Pliers, Straight, Stainless Steel	5 in	Knipex	78 03 125 ESD	**5AHA8**
Electronic Pliers, Straight w/Lead Catcher, Stainless Steel	4 29⁄32 in	Knipex	78 13 125 ESD	**5AHC0**
Short Chain Nose Pliers	5 in	Xcelite	LN225N	**4CP33**
Miniature Short Chain Nose Pliers	4 in	Xcelite	L4VN	**6X088**
Miniature Long Nose Pliers	4 in	Xcelite	L4GN	**4CP30**
Thin Long Nose Serrated Jaw Pliers	5 ½ in	Xcelite	LN55VN	**4CP39**
Long Nose Side Cutter	5 ½ in	Xcelite	SN55VN	**4CP64**
Diagonal Medium Head Cutter, Flush	4 ½ in	Erem	522N	**31AD33**
Long Nose Plier	5 13⁄16 in	Westward	—	**30PA88**
Diagonal Cutting Plier, Flush	5 ¼ in	Westward	—	**30PA90**
Diagonal Cutting Plier, Semi-Flush	4 9⁄32 in	Westward	—	**30PA91**
Bent Long Nose Plier	4 9⁄16 in	Westward	—	**30PA98**
Flat Nose Plier	4 21⁄32 in	Westward	—	**30PC01**
Plier Sets				
4-pc. Mini Pliers Set	—	Proto	J2804SMP	**2TJ50**
6-pc. Mini Pliers Set	—	Proto	J2806SMP	**2TJ51**



No. 4CR25



No. 3G971



No. 31AD31

Erem®
GENERAL®
slice™

Tweezers

Designed for toolmakers, repairmen, and electronic assemblers.

EREM

Tweezers are antimagnetic, acid-resistant, and temperature-resistant to 300°C.

ESD SAFE TWEEZERS

Meet the requirements for tools used in electrostatic-sensitive areas. Ergonomically designed soft foam handles. Stainless steel.

SLICE™

Professional-grade tweezers are hand filed with aligned tips. Nos. 31DA15, 31DA16, 31DA18, and 31DA19 are autoclave friendly. Nos. 31DA15, 31DA17, and 31DA19 are soft-touch rubberized.

Description	Point Type	L	Tip Size	Application	Material	Mechanism	Brand	Mfr. Model	Item No.
ESD Safe Precision Tweezers									
ESD-Safe, Anti-Magnetic, Anti-Acid	Curved, Relieved	4¾"	.011" x .016"	For Working in Confined Spaces	Stainless Steel	Manual	Erem	E7SA	**5EPT8**
	Straight, Flat, Round	4¾"	.063" x .015"	For Gripping Fine Wire	Stainless Steel	Manual	Erem	E2ASA	**5EPT5**
	Straight, Micro Pointed	4¾"	.011" x .011"		Stainless Steel	Manual	Erem	E5SA	**5EPT7**
	Straight, Robust	4¾"	.019" x .027"	—	Stainless Steel	Manual	Erem	E00SA	**5EPT9**
	Ultra-Fine, Pointed, Straight	4¾"	.011" x .015"	For Assembly of Circuit Boards	Stainless Steel	Manual	Erem	E3CSA	**5EPT6**
Precision Tweezers									
Anti-Acid/ Anti-Mag	Curved, Releived	4½"	.011" x .016"	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	7SASL	**4CR23**
	Fine, Robust, Straight	5"	.031" x .031"		Stainless Steel	Manual	Erem	AASA	**4CR25**
	Flat & Round, Straight	4½"	.063" x .015"		Stainless Steel	Manual	Erem	2ASASL	**4CP98**
	Medium, Straight	4½"	.019" x .019"		Stainless Steel	Manual	Erem	2SASL	**4CR01**
	Micro Point	4½"	.011" x .011"		Stainless Steel	Manual	Erem	5SASL	**4CR16**
	Ultra Fine, Straight	4 ¼"	.011" x .015"		Stainless Steel	Manual	Erem	3CSASL	**4CR03**
Anti-Acid/ Anti-Mag, Swiss Made	Curved, Releived	4½"	.011" x .016"		Stainless Steel	Manual	Erem	7SA	**4CR22**
	Flat & Round, Straight	4½"	.063" x .015"		Stainless Steel	Manual	Erem	2ASA	**4CP97**
	Micro Point, Straight	4½"	.011" x .011"		Stainless Steel	Manual	Erem	5SA	**4CR15**
	Ultra Fine, Straight	4 ¼"	.011" x .015"		Stainless Steel	Manual	Erem	3CSA	**4CR02**
Curved, Double Hinged	Smooth/Dull	6½"	—	—	Stainless steel	—	General	3G971	**3G971** *
Cutting	Oblique	4½"	0.374"	Cutting Fine, Soft Wire and Small Components	Carbon Steel	Manual	Erem	15AGW	**31AD31**
Serrated/ Blunt	Serrated/Blunt	6"	—	—	Stainless steel	—	General	3G959	**3G959** *
Serrated Bent Tip, LED	Serrated Bent Tip	4 13⁄64"	—	Retrieval, Includes (3) LR41 Batteries	Heat Treated Steel, Non-Slip Cushion Grip	Spring	General	70408	**8P401**
Smooth/ Sharp	Smooth/Sharp	4½"	—	For Very Fine Precision Work on Electronic Assemblies, Toolmakers, Mechanics, and Repairmen	Nickel Plated Steel	—	General	401XX	**3WCR1**
Smooth Point Tip, LED	Smooth Point Tip	6¼"	—	Retrieval, Includes (3) LR41 Batteries	Heat Treated Steel, Non-Slip Cushion Grip	Spring	General	70401	**9DKV9**
Strong Bevel	Strong Bevel	5"	—	—	Stainless steel	—	General	3G957	**3G957** *
Wide-Grip	Combination	3½"	½"	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10457	**31DA19**
		3½"	½"		Stainless Steel	Spring	Slice	10458	**31DA20**
	Pointed/Sharp	3½"	½"		Stainless Steel, Non-Slip	Spring	Slice	10454	**31DA17**
		3½"	½"		Stainless Steel	Spring	Slice	10456	**31DA18**
	Slanted	3½"	½"		Stainless Steel, Non-Slip	Spring	Slice	10450	**31DA15**
		3½"	½"		Stainless Steel	Spring	Slice	10452	**31DA16**

Double Hinged Adjustment Arm

Cable Cutters

Note: Do not use cutters for ACSR unless specified.

High-Leverage—Offer strong cutting force with less pressure applied by the user. No. 3LY18 is Klein Tools'® Journeyman™ Series.

Ratchet—Hold cable in place while allowing 1-handed cutting. No. 1ED70 is a 2-handed ratchet cutter.

2-Speed Ratchet—Close rapidly to the outer surface, then ratchet normally to complete the cut.


No. 1FAH6


No. 2DFZ6


No. 10D455


No. 10D456

Overall Length	Description	Brand	Mfr. Model	Item No.
Cable Cutters				
6 1/4 in	1 1/4" Alum., 5/8" Comm., 19/32" Copper	Knipex	95 12 165 T BKA	**54JD82**
6 1/2 in	15/64" Copper Cable, RG-174 and RG-9 Coaxial Cable, 8 AWG Telephone Cable	Westward	—	**10D464**
6 1/2 in	1/4" Copper and Aluminum Cable, RG-174/ RG-9 Coaxial Cable, 8AWG Telephone Cable	Westward	—	**10D461**
7 1/2 in	Up to 1/4" Copper and Mild Steel Strands, Up to 3/16" Aircraft Cable, Wire Rope, Aluminum and Copper Rods, Up to 5/32" for Steel & Iron Rods	Klein Tools	63016	**2DFZ5**
7 in	Anvil Cutter for Solid and Stranded Copper Wire Up to 12 AWG and Stainless Steel Up to .032" Diameter. Mild Steel Cutter for Conductors Up to .080" Diameter. Curved Cutter for Solid and Stranded Copper Wire Up to 8 AWG, Multi-Conductor Cable Up to 1/2" Diameter and Coaxial Cable Rg-6 Quad, Rg-59, and Rg-62.	Klein Tools	63020	**6LFW3**
7 in	8 AWG Solid and Stranded, 1/2" Multi-Conductor Cable	Tempo Communications	45482	**21TX83**
8 in	3/0 Copper and Aluminum Stranded and Battery Cable	Irwin Vise-Grip	2078328	**4YU79**
8 1/4 in	1" Aluminum and Copper Coaxial Cable	Klein Tools	63030	**1ED94**
8 in	24 AWG Copper, Aluminum Multistrand Cable and Wire, and 100-Pair Telephone Cable	Klein Tools	63055	**4A861**
8 1/4 in	9/32" Copper and Aluminum Cable	Westward	—	**10D462**
8 1/2 in	Cuts 24-Ga. Communication Cable, 100-Pair Telephone Cable	Westward	—	**1YNB1**
9 1/2 in	2/0 Copper Cable, 4/0 Aluminum Cable	Crescent H.K. Porter	0890CSJ	**2H041**
9 1/4 in	4/0 Aluminum, 2/0 Copper, 100 Pair Wire	Jonard Tools	JIC-63050	**5TDD6**
9 1/2 in	3/8" Copper and Aluminum Cable	Westward	—	**10D460**
9 1/4 in	Cuts Up to 4/0 Aluminum, Up to 2/0 Soft Copper, Up to 100 Pair, 24-Ga. Communication Cable	Westward	—	**1YNA9**
9 in	1/2" Copper and Aluminum Cable	Westward	—	**10D466**
10 in	600kcmil CU and AL, 1 3/8" Communications Cable	Greenlee	45206	**21TX93**
11 in	750kcmil CU, 1000kcmil AL, 2" Communications Cable	Greenlee	45207	**21TX94**
12 1/4 in	300 MCM Copper, Aluminum, and Low Carbon Steel Bar	Westward	—	**10D459**
16 1/4 in	350 MCM Copper, 350 MCM Aluminum	Klein Tools	63035	**4A858**
17 1/2 in	350 MCM Copper, 1" Communications Cable	Greenlee	718F	**1ED68**
21 in	350kcmil CU, 500kcmil AL, 1 1/4" dia. Communications Cable	Greenlee	704	**21TX84**
21 1/4 in	500 MCM Copper and Aluminum	Westward	—	**10D458**
24 1/2 in	500 MCM Copper, 750 MCM Aluminum, 1 3/4" Communications Cable	Westward	—	**10D452**
24 in	500MCM/Copper and Aluminum Cable	Westward	—	**22UN87**
25 1/2 in	500 MCM Copper, 1000 MCM Aluminum, 1 3/4" Communications Cable	Greenlee	705	**1FAH6**
25 1/2 in	500 MCM Soft Copper, 750 MCM Aluminum, 1 3/8" Communications Cable	Klein Tools	63041	**4A859**
25 1/2 in	500MCM Copper and 750MCM Aluminum, 1 3/8" Communications Cable	Westward	—	**1YNB5**
28 in	1" Copper or Aluminum, 3/8" Wire Rope, 7/16" ACSR	Crescent H.K. Porter	0290FHJN	**2H011**
28 in	2/0 ACSR Cable, 1/8" Piano Wire, 350 MCM Copper and Aluminum Cable	Greenlee	749	**4A765**
28 in	800MCM/Copper and Aluminum Cable	Westward	—	**22UN88**
28 in	1" Copper and Aluminum, 1/2" Wire Rope and 7/16" ACSR Cable	Westward	—	**1YNB4**
31 1/2 in	Up to 750MCM Copper, 1000MCM Aluminum, 1 1/2" Communications Cable	Greenlee	706	**4HEA8**
31 1/2 in	500mm2 Copper and Aluminum Cable, 2 1/4" Communication Cable	Westward	—	**10D451**
32 in	1000MCM Copper, 1200MCM Aluminum, 1 3/4" Communications Cable	Klein Tools	63045	**2DFZ6**
32 in	1000MCM/Copper and Aluminum Cable	Westward	—	**22UN89**
39 1/2 in	3/4" Wire Rope, Stainless Steel, and Aircraft Cable	Westward	—	**10D450**
Wire Rope Cutters				
7 1/2 in	1/4 in Wire Rope	Knipex	95 62 190 T BKA	**54JD83**
Cable Cutter Set, 2-Pc. (Nos. 1YNA9 and 1YNB1)				
8 1/2 in 9 1/4 in	4/0 Aluminum and 2/0 Soft Copper 24-Ga./100 Pair Telephone Cable	Westward	—	**1YNB2**
High-Leverage Cable Cutters				
9 1/4 in	Up to 2/0 AWG Copper and Aluminum	Greenlee	727	**5LE28**
9 1/4 in	Up to #1AWG, 2/0 Copper and Aluminum, 100 Pair Telecommunications Cable	Greenlee	727M	**4HED3**
9 9/16 in	4/0 Aluminum, 2/0 Soft Copper, 100-Pair 24 AWG Communications Wire	Klein Tools	J63050	**3LY18**
9 23/64 in	4/0 Aluminum, 2/0 Soft Copper, 100-Pair 24 AWG Communications Wire	Klein Tools	63050	**4A860**
Ratchet Cable Cutters				
9 1/2 in	1000 MCM Copper and Aluminum Cable	Westward	—	**10D454**
10 1/2 in	500 MCM Copper, 750 MCM Aluminum, 1 1/8" Communications Cable	Greenlee	759	**1ED69**
10 1/4 in	1000 MCM Aluminum, 600 MCM Copper, 2 1/16" Diameter Communications Cable	Klein Tools	63601	**25D149**
10 1/4 in	600 MCM Aluminum, 400 MCM Copper, 336 MCM Linnet ACSR, 2/0 Tripex Steel Messenger Cable	Klein Tools	63607	**25D151**
10 1/4 in	400 MCM Copper, 600 MCM Aluminum, 1 1/8" Communications Cable	Klein Tools	63060	**4JA44**
10 1/2 in	500 MCM Cable MCM Aluminum and Multiconductor Cable	Westward	—	**1YNB3**
10 in	500mm2 AWG 1000 MCM Copper and Aluminum Cable	Westward	—	**10D467**
10 in	600 MCM Copper, 750 MCM Aluminum	Westward	—	**10D455**
12 in	600 MCM/Stranded Copper, 750 MCM/Stranded Aluminum	Jonard Tools	RC-600	**40J752**
12 1/8 in	1000 MCM Copper, 1000 MCM Aluminum, 2-1/6" Communications Cable	Klein Tools	63750	**2DGA9**
13 3/4 in	8 AWG to 1000 kcmil Copper and Aluminum, 1 3/4 Communication Cable	Greenlee	760	**5LE29**
18 3/4 in	Communications Cable Max Capacity: 1 1/4" Dia. ACSR, ACAR; 7/16" Dia. Common Guy Strand; 5/8" Dia. Steel Wire Rope; 1/2" Dia. Steel Rod (C.R.S. Soft); 750 MCM Dia. Copper or Aluminum	Westward	—	**10D456**
28 in	2 1/4" Soft Cable	Klein Tools	63700	**25D154**
2-Handed Ratchet Cable Cutter				
10 3/4 in	1000 MCM Copper, 1000 MCM Aluminum, 1 1/8" Communications Cable	Greenlee	761	**1ED70**
2-Speed Ratchet Cable Cutters				
15 1/2 in	500kcmil CU, 795kcmil AL, 1 3/16" Communications Cable	Greenlee	773	**21TX95**
19 1/8 in	750 MCM Copper, 795 MCM Aluminum, 1 3/16" Communications Cable	Greenlee	774	**1ED71**
20 in	636 MCM ACSR Steel Core Cable	Greenlee	776	**4GA99**
Heavy-Duty Manual Communications Cable Cutters				
18 1/4 in	350 MCM Copper and Aluminum, 25mm Communication Cable	Westward	—	**22UN73**
26 1/2 in	500 MCM Copper, 1000 MCM Aluminum, 38mm Communication Cable	Westward	—	**22UN72**
32 1/4 in	750 MCM Copper, 1000 MCM Aluminum, 38mm Communication Cable	Westward	—	**22UN71**
37 in	2 1/4" Communications Cable	Greenlee	765	**21TX92**
37 in	MCM Cable 900-Pair Soft Copper and Aluminum, Up to 2 1/4" Diameter Soft Cable	Klein Tools	63047	**25D152**

BX/Flexible Conduit Cutters

Cuts BX cable, steel sheets, steel strapping, and bundling wire. No. 4A862 has a built-in stripping notch with plastic-dipped handles for easy gripping. No. 10D465 has high-frequency quenching and features a high-strength spring for cutting electrical cable. No. 11L580 has hand crank that easily cuts steel with a few quick turns.


No. 10D465


No. 11L580

Overall Length	Cutting Cap./Material	Cutting Action	Handle	Brand	Mfr. Model	Item No.
7 5/8"	Cuts a Variety of Materials Including BX Cable, Sheet Metal, Steel Strapping, and Bundling Wire.	Shear Cut	Plastic Dipped	Klein Tools	1104	**4A862**
8"	1/8" Soft Steel Wire Rope And Cable	Shear Cut	PVC Grip	Westward	—	**10D465**
10 5/8"	1" AC And MC Cable	Rotary	Molded	Greenlee	0952-01	**11L580**



No. 5TDA7



No. 1YNA4



No. 22PF01



No. 2DGH1



No. 3PB81



No. 3R285

JONARD TOOLS · GREENLEE · WESTWARD · CablePrep Tools You Trust Since 1979

KLEIN TOOLS · PROTO · IRWIN VISE-GRIP · Milwaukee · IDEAL

Wire Stripper/Cutters and Wire Tools

Description	Overall Length	Cap.	Brand	Item No.
Cable Slitter Tools				
Fiber Optic Cable Slitter Blade, Pkg. of 25	—	—	Jonard Tools	**5TDD2**
Fiber Optic Drop Cable Slitter, Flat Drop	4"	.250"	Jonard Tools	**5TDD1**
Cable Strippers				
Cable Stripper "Triple Action"	5¼"	3/16 to 1⅛"	Jonard Tools	**5TDA7**
Cable Stripper Blade	—	For Use With 5TDA7	Jonard Tools	**5TDA8**
Cable Stripping Tool	7½"	8 AWG to 750 MCM	Greenlee	**454N79**
Pocket Cable Stripper	6½"	1⅛"	Westward	**1YMZ9**
Self-Adjusting Wire Stripper	9"	10 to 34 AWG Solid and Stranded	Greenlee	**1ATA7**
THHN Cable Stripper	7"	8 AWG to 1250 kcmil	Greenlee	**4HDZ9**
Wire Stripper	7"	8 to 22 AWG	Westward	**1YMZ8**
Drop Cable Stripping Tools				
Cable Stripper	4½"	¼"	Cable Prep	**6JAX5**
Coax and UTP Cable Stripper	5"	¼"	Jonard Tools	**23Z417**
Coax Cable Stripper	5"	—	Cable Prep	**6JDE6**
Coax Cable Stripper	7½"	—	Cable Prep	**6JDF4**
Coax Cable Stripper, RG6/59	5"	¼"	Cable Prep	**6JDE7**
Coax Cable Stripper, RG7/11	5"	¼"	Cable Prep	**6JDF1**
Hardline Stripping/Coring Tools				
Cable Stripper	6"	500 AWG	Cable Prep	**6JDH0**
Cable Stripper	6"	625 AWG	Cable Prep	**6KDN5**
Cable Stripper	6"	675 AWG	Cable Prep	**6KDN7**
Cable Stripper	6"	750 AWG	Cable Prep	**6KDN6**
Multi-Purpose				
Strip/Cut/Loop/Crimp/Shear	8⅝"	8 to 16 AWG Solid, 10 to 18 Stranded Wire, Screw Shearing 6-32 and 8-32	Klein Tools	**45PZ57**
Strip/Cut/Loop/Shear	8⅜"	8 to 16 AWG Solid, 10 to 18 Stranded Wire, Screw Shearing 6-32 and 8-32	Klein Tools	**45PZ56**
Wire Stripper, 6-in-1	7¾"	8 to 22 AWG Solid, 10 to 26 AWG Standard	Klein Tools	**2DFE4**
Stripper/Cutter/Crimpers				
5-in-1 Wire Stripper/Cutter/Crimper	8¼"	22 to 10 AWG	Proto	**3R286**
Long Nose Wire Stripper/Cutter/Crimper	8¼"	22 to 10 AWG	Westward	**1YNA4**
Long Nose Wire Stripper/ Cutter/Crimper/Looper	8¼"	22 to 10 AWG	Klein Tools	**5LL36**
Wire Stripper, Multipurpose	8½"	8 to 22 AWG Solid, 10 to 26 AWG Standard	Klein Tools	**2DGG9**
Wire Stripper/Cutter/Crimper	8½"	8 to 22 AWG	Westward	**1YNA5**
Wire Stripper/Cutter/Crimper	8½"	22 to 10 AWG	Proto	**3R287**
Wire Stripper/Cutter/Crimper, SS	7¼"	18 to 10 AWG	Greenlee	**22PF01**
Wire Stripper/Cutter/Crimper, SS	7¼"	18 to 10 AWG	Greenlee	**22PF02**
Wire Stripper/Cutter/Crimper, SS	8⅞"	8 to 18 AWG	Greenlee	**22PF06**

Description	Overall Length	Cap.	Brand	Item No.
Stripper/Cutters				
Adjustable Wire Stripper/Cutter	5⅛"	24 to 12 AWG	Klein Tools	**2DGD5**
Compact Wire Stripper/Cutter	5"	26 to 12 AWG	Klein Tools	**2DGH1**
Curved Wire Stripper/Cutter	7⅛"	20 to 10 AWG	Westward	**1YNA3**
Klein-Kurve® Dual NM Cable Stripper/Cutter	7¾"	12 to 14 AWG Solid, Screw Shearing 6 to 32 and 8 to 32, Strips and Cuts 14 to 16 Stranded	Klein Tools	**1YBR3**
Klein-Kurve® Wire Stripper/Cutter	7⅛''	20 to 30 AWG Solid, 22 to 32 AWG Standard, Screw Shearing 6 - 32 and 8 - 32	Klein Tools	**2DGJ8**
Klein-Kurve® Wire Stripper/Cutter	7⅛"	6 to 12 AWG Standard, Screw Shearing 6 - 21 and 8 - 32	Klein Tools	**1YBP9**
Klein-Kurve® Wire Stripper/Cutter	7⅛"	18 to 10 AWG Solid, 12 to 20 AWG Standard, Screw Shearing 6 - 23 and 8 - 32	Klein Tools	**3PB81**
Self-Adjusting Wire Stripper/Cutter	8"	24 to 10 AWG	Irwin Vise-Grip	**1XFZ6**
Wire Stripper/Cutter	5"	30 to 10 AWG	Paladin	**21TX96**
Wire Stripper/Cutter	6"	16 to 26 AWG	Greenlee	**22PF05**
Wire Stripper/Cutter	6"	20 to 10 AWG	Greenlee	**22PF04**
Wire Stripper/Cutter	6"	20 to 10 AWG	Proto	**3R285**
Wire Stripper/Cutter	9"	10 to 20 AWG PVC or THHN Insulation, Up To ⅞" L.	Greenlee	**21TX91**
Wire Stripper/Cutter	6¼"	16 to 8 AWG	Klein Tools	**2DGJ7**
Wire Stripper/Cutter	6¼"	16 to 30 AWG	Westward	**1YNA2**
Wire Stripper/Cutter	6¼"	18 to 10 AWG	Klein Tools	**4A854**
Wire Stripper/Cutter	6¼"	20 to 10 AWG	Westward	**1YNA1**
Wire Stripper/Cutter	6¼"	26 to 16 AWG	Klein Tools	**4A855**
Wire Stripper/Cutter	6¼"	30 to 22 AWG	Klein Tools	**4A856**
Wire Stripper/Cutter	6⅛"	10 to 20 AWG Solid, 12 to 22 AWG Standard	Klein Tools	**5LL37**
Wire Stripper/Cutter	6¾"	10 to 22 AWG	Jonard Tools	**2TDK7**
Wire Stripper/Cutter	6¾"	16 to 26 AWG	Jonard Tools	**2TDK8**
Wire Stripper/Cutter	6¾"	20 to 30 AWG	Jonard Tools	**2TDK9**
Wire Stripper/Cutter	7¼"	6 to 16 AWG	Greenlee	**22PF03**
Wire Stripper/Cutter	7¾"	20 to 10 AWG	Milwaukee	**52AY46**
Wire Stripper w/Hold-Open Spring	5"	26 to 12 AWG	Klein Tools	**2DFE6**
Strippers/Cutters				
Wire Stripper/Cutter	7"	22 to 10 AWG	IDEAL	**5LJ02**



51-pc. Intermediate Tool Kit w/ Cordura Case No. 6C383



8-pc. Soft Grip Miniature Plier Set w/Case No. 5EWN5

Xcelite · IRWIN VISE-GRIP · WESTWARD

Electronics Tool Kits

Each kit contains an assortment of professional hand tools to address most common issues encountered by technicians, service staff, and field engineers. Tools are mounted in pockets, with additional space provided for an individualized selection of other tools. For complete list of kit contents, see Grainger.com®.

Description	Brand	Mfr. Model	Item No.
Tool Kits w/Cases			
51-pc. Intermediate Tool Kit w/Polyethylene Case	Xcelite	TCMB150STN	**6C381**
51-pc. Intermediate Tool Kit w/Cordura Case	Xcelite	TCS150STN	**6C383**
8-pc. Soft Grip Miniature Plier Set w/Case	Irwin Vise-Grip	2078714	**5EWN5**
Tools Only			
Precision End Nose Pliers	Westward	—	**1UG21**
Cases Only (No Tools)			
Polyethylene for 85-pc.	Xcelite	TCMB100MT	**6C481**
Polyethylene for 51-pc.	Xcelite	TCMB150MT	**6C483**
Cordura for 51-pc.	Xcelite	TCS150MT	**6C484**

Crimpers

DIELESS CRIMPERS

Feature a wire cutter in the nose and plastic-covered handles. No. 1ED63 is for small lugs and splices, and fits in tool pouches.

CRIMPERS WITH DIES

Nos. 49NV75 has a rotating, replaceable, color-coded dies for attaching lugs or connectors to wire and cable. Nos. 5KPH6 and 5KPN8 have pivot-action jaws and 2 die positions. Nos. 13H893 and 13H894 have revolving dies.

RATCHETING CRIMPERS

Put more crimping power into each squeeze. Kwik Cycle® crimpers feature a ratchet-action mechanism that releases after proper crimp force is applied. Compound-Action Ratcheting Crimper with narrow-span handles has a built-in ratchet with safety release for uniform crimps every time. Full Cycle Ratcheting Crimper has color-coded wire size markings.

BATTERY TERMINAL CRIMPER

Features an all-in-one integral crimp nest with no removable parts to lose or rotating dies to set. User can set crimp depth with simple-to-use adjustment screw.


No. 5LE32


No. 13H894


No. 4CN29

Cap.	Overall Length	For Use With	Brand	Mfr. Model	Item No.
Dieless Crimpers					
22 to 10 AWG	9"	Insulated and Non-Insulated Terminals	Milwaukee	48-22-6103	**52AY47**
22 to 10 AWG	9¾"	Insulated and Non-Insulated Solderless Terminals and Connectors	Klein Tools	1005	**5LL34**
22 to 10 AWG	9¾"	Insulated and Non-Insulated Solderless Terminals and Connectors	Klein Tools	J1005	**1ED90**
22 to 10 AWG	9¾"	Non-insulated Solderless Terminals and Connectors	Klein Tools	1006	**5LL35**
1000 kcmil Cu/750 kcmil Al	22"	Electrical Lugs and Connectors	Ridgid	48373	**45NC06**
8 to 4/0 AWG Aluminum, 8 AWG to 250 KCMIL Copper	22⅜"	UL and C-UL Classified Color Coded Lugs and Splices	Greenlee	1981	**5LE32**
8 to 1/0 AWG	10"	Small Copper Connectors	Greenlee	K111	**1ED63**
4AWG to 1000 KCMIL Copper, 69 AWG to 1000 KCML Aluminum	26"	Aluminum and Copper Lugs	Greenlee	HK12ID	**6ENZ5**
RJ-45, RJ-11/12/22, Cat6, Cat5e, Cat5, Cat3, Flat Satin, Snagless RJ-45	7½"	Snagless Connectors, Flat Satin	Paladin	1561	**4NHR6**
Cable Copper: 250, 4/0, 3/0, 2/0, 1/0, #1, #2, #3, #4, #5, #6, #8, Aluminum Terminals: 4/0, 3/0, 2/0, 1/0, #1, #2, #3, #4, #5, #6, #8	23"	Lugs and Splices	Westward	38YG96	**38YG96**
Crimpers with Dies					
8 to 1/0 AWG	15¾"	Copper Connectors	Greenlee	K05-SYNCRO	**49NV75**
22 to 10 AWG	9½"	Electrical Terminations and Connections	Greenlee	KP1022	**5KPH6**
22 to 10 AWG	9½"	Electrical Terminations and Connections	Greenlee	KP1022D	**5KPN8**
7-4/0 AWG	24⅛"	Non-Insulated Connectors	Westward	—	**13H893**
10-1/0 AWG	15⅜"	Non-Insulated Connectors	Westward	—	**13H894**
Ratcheting Crimpers					
Kwik Cycle					
22 to 6 AWG	12⅞"	Non-Insulated Terminals	Greenlee	K2-1BGL	**21TX86**
Compound-Action					
22 to 10 AWG	9"	Insulated Terminals	Klein Tools	T1710	**2DFE2**
Full Cycle					
22 to 10 AWG	9"	Insulated Terminals	Klein Tools	T1715	**2DFE3**
Ratcheting Crimpers with Dies					
Kwik Cycle					
22 to 8 AWG	9"	Noninsulated Terminal Die Sets	Greenlee	45505G	**4CN30**
22 to 10 AWG	9"	Insulated Terminal Die Sets	Greenlee	45500G	**4CN29**
Battery Terminal Crimper					
6 to 4/0 AWG	19½"	Crimping Lugs and Terminals	Klein Tools	2006	**25D147**

Electric Cable Pullers and Accessories

Attach to 1" and larger conduit with no loose parts. Self-contained units have high-torque integral motor. Circuit breaker on motor switch stops the puller motor if it becomes overloaded.

ELECTRIC CABLE PULLERS

Gardner Bender—Deliver smooth power with no chains or sprockets to break. Can be assembled in multiple configurations, so that it can be mounted almost anywhere, even in tight corners. Powerful motor can start under full load.

Greenlee—No 31AD38 offers high and low speeds for intermediate and continuous pulling. High speed is for loads up to 1000 lb. and low speed is for loads up to 2000 lb. Portable handle, wheels, and dolly base increase mobility around industrial facilities and offer self storage. There are no loose pieces, minimizing lost parts and set-up time. Boom extends up to 8 ft.

Quick-adjust clamp easily connects to the outside of 1" or larger conduit sizes without need for adapters. Use with Greenlee 9/16" double-braided composite pulling rope. Turbo Puller No. 454N82 sets up in less than 60 seconds. 2-speed motor is designed for 6,000 –lb. loads. Right-angle sheave allows you to stand it out of the direct line of force. Nos 15X799, 15X789, and 15X797 use Greenlee ⅞" double-braided composite rope. Pulling speed ranges from 2000 lb. at 8 fpm (feet per minute) to 8000 lb. at 6 fpm. No 15X799 with mobile VersiBoom™ allows for one-person setup in less than 2 min. No. 4HEA6 features 6,5000 max. capacity.

SHEAVES

Aluminum alloy hook sheaves allow user to configure the direction cable and wire is to be pulled through conduit. Welded steel frames with forged steel closure-type hooks. Self-lubricated bearings.


No. 31AD38


No. 15X799

Description	Pulling Force (lb.)	Brand	Mfr. Model	Item No.
Electric Cable Pullers				
Brutus™ Cable Puller	8000	Gardner Bender	CP8000	**15V963**
Portable Cable Puller	2000	Greenlee	G3	**31AD38**
Turbo™ Cable Puller	6000	Greenlee	G6	**454N82**
Ultra Tugger® Cable Puller w/Chain Mount	8000	Greenlee	6801	**15X790**
	10,000	Greenlee	6901	**15X797**
Ultra Tugger® Cable Puller w/Floor Mount	8000	Greenlee	6800	**15X789**
Ultra Tugger® Portable Cable Puller w/Mobile Versi-Boom	8000	Greenlee	6806	**15X799**
	10,000	Greenlee	6906	**15X798**

Description	Max. Cap.	Brand	Mfr. Model	Item No.
Cable Puller Accessories				
Cable Pulling Rope				
9/16 in x 300 ft	4000 lb	Greenlee	35283G	**4HEA2**
9/16 in x 600 ft	4000 lb	Greenlee	35284	**4HEA3**
½ in x 300 ft	2200 lb	Greenlee	455	**1XGB4**
½ in x 600 ft	2200 lb	Greenlee	456	**1XGB5**
Cable Puller Sheaves				
Roller 6 in dia x 5 in Width	4000 lb	Greenlee	650	**4HEA4**
Roller 12 in dia x 5 in Width	4000 lb	Greenlee	651	**2NYG9**
Roller 18 in dia x 5 in Width	4000 lb	Greenlee	652	**2NYH1**
Roller 24 in dia x 5 in Width	4000 lb	Greenlee	653	**2NYH2**
Cable Pulling Grip Kit				
Cable Pulling Grip	—	Greenlee	629	**4HEA6**
Cable Pulling Jaw Grip				
4 B&S solid 0.20 in Max. Cable Size	1,500 lb	Klein Tools	1613-30	**2DGR4**
2 B&S 0.25 in Max. Cable Size	2,500 lb	Klein Tools	1604-10	**2DFG1**
Steel Strand 0.50 in Max. Cable Size	5,000 lb	Klein Tools	1604-20	**2DGR2**
Steel Strand 0.50 in Max. Cable Size	5,000 lb	Klein Tools	1604-20L	**2DGR3**
Wire Rope 0.75 in Max. Cable Size	8,000 lb	Klein Tools	1625-20	**2DGR5**
Wire Rope 1 in Max. Cable Size	8,000 lb	Klein Tools	162520-1	**2DGR6**
0.37 in Max. Cable Size	4,500 lb	Klein Tools	1613-40	**2DFG2**
0.55 in Max. Cable Size	8,000 lb	Klein Tools	1684-5	**2DFG7**



No. 2VZA9



No. 444N80

Journeyman Trade Tool Sets

WESTWARD · GREENLEE · Milwaukee · KLEIN TOOLS

No. of Pieces	Tool Families Included	Tool Storage Included	Brand	Mfr. Model	Item No.
Electricians Tool Kits					
10	Measuring Tools, Pliers, Screwdrivers	Bag	Westward	7DX51	**7DX51**
12	Electrical and Telecomm Tools, Measuring Tools, Pliers, Screwdrivers	Pouch	Greenlee	0159-13	**2NYH3**
17	Awls and Scribers, Cutting Tools, Drilling, Extracting, and Tapping Tools, Hex and Torx Keys, Measuring Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools, Miscellaneous Tools	Caddy	Greenlee	0159-17ELEC	**416J65**
18	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0140	**444N78**
28	Cutting Tools, Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Bag	Klein Tools	80028	**2VZA9**
28	Awls and Scribers, Cutting Tools, Drilling, Extracting, and Tapping Tools, Hex and Torx Keys, Measuring Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools, Miscellaneous Tools	Backpack	Greenlee	0159-28BKPK	**416J63**
28	Awls and Scribers, Cutting Tools, Drilling, Extracting, and Tapping Tools, Hex and Torx Keys, Measuring Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools, Miscellaneous Tools	Bag	Greenlee	0159-28MULTI	**416J64**
Electronics Tool Kit					
6	Electrical and Telecomm Tools, Pliers, Screwdrivers	None	Greenlee	0159-36	**11L581**
Journeyman Tool Sets					
17	Electrical and Telecomm Tools, Measuring Tools, Pliers, Screwdrivers, Striking Tools	Caddy	Greenlee	0159-12	**2NYH4**
18	Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Belt, Pouch	Klein Tools	80118	**2DGP4**
41	Awls and Scribers, Cutting Tools, Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Bag	Klein Tools	80141	**2VZC1**
Maintenance Tool Kit					
19	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0142	**444N80**
Plumbers Tool Kit					
22	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0141	**444N79**



No. 10F505



No. 21CJ17



No. 31AD81



No. 1FAH7

GREENLEE · KLEIN TOOLS · IDEAL · WESTWARD · JAMESON · JONARD TOOLS

Fish Tapes and Wire/Cable Pullers

FISH TAPES

Steel—Nonmetallic case will not dent or rust. Winder slide is included for rewind of tape.

Smart Mark™ —Laser etched ft. and meter distance markings every 1 ft./0.3m (fist mark is at 2 ft./0.6m). Speed Flex® leader lets you fish farther and faster.

Magnum Pro Steel—Corrosion-resistant tape.

Flex-O-Twist®—Tape slips through lateral locking and vertical bends.

Fiberglass—Nonconductive tape has low-friction coating and noncoiling properties.

Nylon—Curl-resistant nylon tape has 200 to 250-lb. tensile strength.

FISH LINE

Center feed assures payout without tangling. Can be pulled into the run with the wire, making it easy to add wires at a later date. Strong, light-weight nylon is mildew-resistant.

FISH STICKS

Push or pull wires over long distances, including subfloors, crawl spaces, and attics.

FISH RODS

Fiberglass rods provide added rigidity when multiple sections are threaded together. Glow-in-the-dark fishing stick No. 1FAH7 provides high visibility in dark spaces and includes three 5-ft. pieces for a total of 15 ft.

Description	L	Tape Size	Brand	Mfr. Model	Item No.
Fish Tapes					
Steel	25 ft.	¼" x 0.030"	Greenlee	438-2X	**1ED73**
	50 ft.	⅛" x 0.060"	Greenlee	438-5H	**1ED72**
	100 ft.	¼" x 0.060"	IDEAL	31-050	**31AD58**
	120 ft.	⅛" x 0.060"	IDEAL	31-036	**31AD47**
Stainless Steel	100 ft.	3⁄16"	IDEAL	31-092	**31AD52**
	100 ft.	⅛"	Greenlee	FTSS438-100	**3WAH5**
	120 ft.	⅛" x 0.060"	IDEAL	31-066	**31AD49**
Blued Steel, Laser Etched	120 ft.	⅛" x 0.060"	IDEAL	31-056	**10F502**
	240 ft.	⅛" x 0.060"	IDEAL	31-057	**10F503**
Steel, Smart Mark™ w/ Speed Flex® Leader	150 ft.	⅛"	Greenlee	FTS438DL-150	**11L583**
	250 ft.	⅛"	Greenlee	FTS438DL-250	**11L584**
Magnum Pro Steel	65 ft.	⅛" x 0.060"	Greenlee	FTS438-65	**2NXE7**
	125 ft.	⅛" x 0.060"	Greenlee	FTS438-125	**2NXE8**
	240 ft.	⅛" x 0.060"	Greenlee	FTS438-240	**2NXE9**
Flex-O-Twist Spiral Wound Steel	50 ft.	3⁄16"	Greenlee	FTFS439-50	**2NXF1**
Flexible Steel	100 ft.	3⁄16"	Greenlee	FTFS439-100	**45JY05**
Fiberglass	100 ft.	3⁄16"	Greenlee	FTF540-100	**2NXF3**
	100 ft.	3⁄16"	IDEAL	31-087	**31AD40**
	120 ft.	3⁄16"	IDEAL	31-554	**31AD70**
	200 ft.	3⁄16"	Klein Tools	56014	**15X659**
	200 ft.	3⁄16"	IDEAL	31-155	**31AD66**
Fiberglass Tuff-Grip™ Pro	60 ft.	3⁄16"	IDEAL	31-542	**6ECR3**
	120 ft.	3⁄16"	IDEAL	31-544	**6ECR4**
Fiberglass S-Class® Tuff-Grip™ Pro	50 ft.	3⁄16"	IDEAL	31-062	**10F506**
	100 ft.	3⁄16"	IDEAL	31-063	**10F507**
	100 ft.	3⁄16"	IDEAL	31-061	**10F504**
	200 ft.	3⁄16"	IDEAL	31-064	**10F505**
Nylon	400 ft.	¼"	Jameson	6-14-400M	**6GCP8**
	50 ft.	5⁄32"	Westward	—	**21CJ16**
	50 ft.	3⁄16"	Greenlee	FTN536-50	**2NXF4**
	100 ft.	3⁄16"	Greenlee	FTN536-100	**2NXF5**

Description	L	Brand	Mfr. Model	Item No.
Flexible Tape Leaders				
Flexible	3⁄16" x 6½"	Westward	—	**6EXU0**
Speedflex	⅛ In. Thick, 12 In. L	Greenlee	439-2	**11L582**
Flex-O-Twist	12" L	Greenlee	439-1	**4CN02**

Description	L	Brand	Mfr. Model	Item No.
Fish Line				
Nylon	2150 ft.	Greenlee	595	**4CN04**
Fish Sticks				
Telescoping	12 ft.	Greenlee	FP12	**1XGB8**
Telescoping	18 ft.	Greenlee	FP18	**4GA97**
Telescoping	24 ft.	Greenlee	FP24	**4GA98**
Fiberglass	12 ft.	IDEAL	31-611	**31AD81**
Fiberglass	24 ft.	IDEAL	31-612	**31AD82**
5-Pc. Set; Includes 3 Rods, Hook Nose Tip, and Bullet Nose Tip	12 ft.	Westward	—	**21CJ17**
7-Pc. Set; Includes 5 Rods, Hook Nose Tip and Bullet Nose Tip	24 ft.	Westward	—	**21CJ18**
Loop Nose Tip	—	Westward	—	**21CJ21**
Bullet Nose Tip	—	Westward	—	**21CJ20**
Fish Rods				
Lo-Flex Glow Rod Set, 5-Pc.	12 ft.	Klein Tools	56312	**31ME19**
Hi-Flex Glow Rod Set, 5-Pc.	18 ft.	Klein Tools	56418	**31ME26**
Mid-Flex Glow Rod Set, 8-Pc.	9 ft.	Klein Tools	56409	**31ME24**
Fish Stix	4 ft. to 12 ft.	Greenlee	540-12	**1ED74**
Fish Stix	3 ft. to 24 ft.	Greenlee	540-24	**1ED75**
Glo Stix	5 ft. to 15 ft.	Greenlee	540-15	**1FAH7**
Telescopic Pole Extends to 18 ft. Long	—	Jonard Tools	RDT-18	**20FV33**

GREENLEE.

Vacuum/Blower Power Fishing Systems

FISHING SYSTEMS

Vacuum/Blower Power Fishing System—Everything necessary to blow or vacuum fish line, poly line, or measuring tape.

Li'L Fisher® Vacuum/Blower Power Fishing System—Compact unit has vacuuming and blowing capabilities, moving line through the conduit run. Power unit detaches from canister for easy cleaning. Includes unit and hose only.

CONDUIT PISTONS

Fit all types and sizes of conduit, ½ through 2" (including rigid, IMC, and EMT).

POLY LINE

Tangle-resistant line pulls rope through conduit with power fish tape systems.

Note: Not for pulling wire or cable.

ACCESSORIES

Conduit Measuring Tape—Measurements are permanently printed at every foot—from 0 to 3000 ft.—to measure lengths of conduit runs. Waterproof polyester has 130-lb. breaking strength.

Note: Dispenser available; go to Grainger.com®

Gel and Cream Lubricants—Adhere to cable and wire without dripping and are compatible with all insulation types. Clean up using only soap and water.

Accessory Kit—Includes 85-lb. x 2150-ft. fish line, pistons for ½", ¾",1, 1¼", 1½, and 2" conduit, adapter cones for ½" to 1" and 1¼" to 2½" conduit, adapter nozzle for measuring tape.

Description	Tank Size	Includes	Mfr. Model	Item No.
Fishing Systems				
Vacuum/Blower Power Fishing System	12 gal.	String Adapter, Conduit Seals: ½ to 1", 1¼ to 2½", 3 to 4", EMT and Rigid Conduit Pistons: ½ to 4", Pull String: 2150 ft.	690-15	**22PE97**
Li'L Fisher® Vacuum/Blower Power Fishing System	5 gal.	1½" dia. x 10 ft. Hose	390	**4CN23**


No. 22PE97


No. 4CN23


No. 4A762


No. 5C647

Description	Mfr. Model	Item No.	Pkg. Qty.
Conduit Pistons			
For ½" Conduit	608-5	**3PA88**	5
For ¾" Conduit	609-5	**3PA89**	5
For 1" Conduit	610-5	**3PA90**	5
For 1¼" Conduit	611-3	**3PA91**	3
For 1½" Conduit	612-2	**3PA92**	2
For 2" Conduit	613	**5C646**	1
Poly Line			
210 lb. x 500 ft.	430-500	**1FAJ4**	1
210 lb. x 6500 ft.	430	**4A762**	1
240 lb. x 5200 ft.	431	**4A763**	1
Accessories			
Conduit Measuring Tape	435	**4A764**	1
Cream Lubricant, 1 qt.	CRM-Q	**4A801**	1
Gel Lubricant, 1 qt.	GEL-Q	**5C647**	1
Gel Lubricant, 1 gal.	GEL-1	**4HEA7**	1
Accessory Kit, For Use with No. 4CN23	392	**4CN25**	1

GREENLEE. GA GRAINGER APPROVED

Pipe and Conduit Rack, Wire Carts, and Caddy

MOBILE PIPE AND CONDUIT RACK

Rack has 7 individual storage compartments. Folds and stacks for easy storage and transport. 100-lb. capacity.

WIRE CART

Large-capacity cart can be used vertically or horizontally; a built-in wire guide permits horizontal dispensing. Tubular-steel welded construction. Features 5 reel axles with spring-clip retainers and includes 2 positions for axle storage. Can configure for large reels with no loose parts. Handles 6" spools. Can pass through 28"W openings.

HAND TRUCK/WIRE CART

Includes five ⅝"-dia. spindles for storing and dispensing up to fifteen 500-ft. reels of #14 THHN wire. Has storage space for 3 spindles and clips when not in use. Lay flat when dispensing, stand upright to use as a hand caddy. Cap.: two 1000-ft. (305m) spools up to 22" (558.8mm) dia. x 16⅜" wide; three 2500-ft. (762m) spools up to 14" (355.6mm) dia. x 16⅜" (416mm) wide; ten 500-ft. (152m) spools up to 7" (177.8mm) dia. x 8" (203.2mm) wide; and fifteen 500-ft. (152m) spools up to 7" (177.8mm) dia. x 5⅜" (136.5mm) wide. Can roll through 23"W openings.

Expander Kit—Expands the capacity of No. 2MDN8 by up to 60%. Bolts on without drilling holes. 41"H x 12⅝"W. Includes 2 supports, 3 spindles, and mounting hardware. Dispenses up to 24 spools up to 7" dia. x 5⅜"W; 16 spools up to 7" dia. x 8"W; 5 spools up to 12" dia. x 16⅜"W; 3 spools up to 14" dia. x 16⅜"W; or 2 spools up to 22" dia. x 16⅜"W.

6-SPINDLE WHEELED WIRE CADDY

Holds 6 spools of wire up to 18" dia. Steel welded frame and large 8" wheels with front locking caster for easy movement under heavy load.

Description	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Mobile Pipe and Conduit Rack	63½"63½"	34"34"	58½"	Greenlee	668	**4GA96**
Wire Cart	54½"	27"	26½"	GA	5C648	**5C648**
Hand Truck/Wire Cart	47"	23"	25"	GA	2MDN8	**2MDN8**
Hand Truck/Wire Caddy Expander Kit	41"	—	12⅝"	Greenlee	10462	**1ED76**
6-Spindle Wheeled Wire Caddy	33"	30"	30"	Greenlee	909	**4HED2**


No. 4GA96 Arms Expanded


Three No. 4GA96 units, stacked


No. 5C648 (Wire Not Included)


No. 2MDN8 with 1ED76 (Wire Not Included)



Electric
No. 6TFG7



Mechanical
No. 1ATF2



Hand Bender
No. 4A733

GREENLEE. GB® Gardner Bender
KLEIN TOOLS IDEAL. WESTWARD®

Bending Equipment

ELECTRIC BENDERS

The 555® Series, commonly referred to as "triple nickel", are portable units bending ½" to 2" dia Rigid, IMC, and EMT conduit up to 180°. Built-in bend charts guide for accurate bends. Operate with a remote pendant control. Combos include bender and shoe listed on same line.

PROGRAMMABLE BENDER

Intellibender® offers conduit capacity: ¾" rigid, 1 to 2" rigid, EMT, or IMC. Sensors automatically adjust for conduit dia. and type. LCD interface.

MECHANICAL BENDERS

Standard—Ratchet action and built-in 0° to 90° bending gauge. Capacities: ½", ¾", and 1" IMC and rigid conduit. Welded frame and wheels. Handle not included. Use 5 ft. of 1" rigid conduit for handle.

Heavy-Duty—Independent ratchet mechanism simplifies both conduit bending and shoe changes. Each shoe has its own "swing-away" clamp to lock pipe in place. Conduit capacities: ¾" to 2" EMT, ½" to 1¼" IMC, ½" to 1½" rigid, and ½" to 1½" aluminum. Includes frame and heavy-duty undercarriage with wheels, 5 shoes, 2 EMT follow bars, EMT follow bar roller, roller, and roller pin.

Little Kicker® Offset Bender—Bends offsets for ½" EMT.

Description	Brand	BENDER Mfr. Model	BENDER Item No.	SHOE Mfr. Model	SHOE Item No.	COMBO Mfr. Model	COMBO Item No.
Electric Benders							
w/Standard Pendant; ½-2" EMT Shoes	Greenlee	555CX	**6TFG7**	13934	**22PE99**	7J385	**7J385**
½ to 2" , 120V, Horizontal and Vertical Operating Position	Greenlee Textron	854DX	**38GU29**	—	—	—	—
w/Standard Pendant; ½-2" Rigid/IMC Shoes	Greenlee	—	—	28008	**22PE98**	7J384	**7J384**
w/½", 1¼" 1½" and 2" Shoes and Support Roller Units	Gardner Bender	B2555EMT	**15V885**	—	—	—	—
w/½" and 1¼" Rigid and IMC Shoes, and Support Rollers; 1½ and 2" Rigid Shoes and Support Rollers	Gardner Bender	B2555RIG	**15V886**	—	—	—	—
Programmable Benders							
Cyclone® w/Bending Shoe and Weather Resistant Cover	Gardner Bender	B2000	**15V883**	—	—	—	—
IntelliBender® Electric Conduit Bender, ½ - 2" Rigid/EMT/IMC	Greenlee	855GX	**6TFG6**	—	—	—	—
Mechanical Benders							
w/½", ¾", 1" 1¼", 1½", and 2" EMT, Rigid and IMC Shoes; 2" Rigid Aluminum Shoes	Gardner Bender	BW30	**15V881**	—	—	—	—
Standard Mechanical Bender	Greenlee	1800	**1ATF2**	—	—	—	—
Heavy-Duty Mechanical Bender	Greenlee	1818	**1ATF3**	—	—	—	—
Little Kicker® Offset Bender	Greenlee	1810	**4A724**	—	—	—	—

Description	Brand	Mfr. Model	Item No.
PVC Heating/Bending Equipment			
Electric PVC Heater for ½ to 2" PVC Pipe	Greenlee	849	**5C637**
PVC Heating Blanket for ½ to 1½" PVC Pipe	Greenlee	860-1-1/2	**5C638**

EMT Size	Rigid/ IMC Size	Centerline Bend Radius	Brand	Mfr. Model	Item No.
Hand Benders w/Handles - Cast Iron					
½"	—	4"	Klein Tools	56203	**4VDH3**
¾"	½"	5"	Klein Tools	56204	**4VDH4**
Hand Benders w/Handles - Aerospace Grade Alloy					
1"	¾"	7"	Klein Tools	56205	**4VDH5**
Hand Benders w/Handles - Ductile Iron					
½"	—	4 5/16"	IDEAL	74-026	**6ECR0**
¾"	½"	5¼"	IDEAL	74-027	**6ECR1**
1"	¾"	6½"	IDEAL	74-028	**6ECR2**
1¼"	1"	9¾"	IDEAL	74-034	**10F486**
Hand Benders w/Handles - Aluminum					
½"	—	4"	Klein Tools	56206	**4VDH6**
½"	—	4 11/32"	IDEAL	74-046	**10F494**
¾"	½"	5"	Klein Tools	56207	**4VDH7**
¾"	½"	5 13/64"	IDEAL	74-047	**10F495**

EMT Size	Rigid/ IMC Size	Centerline Bend Radius	Brand	Mfr. Model	Item No.
Hand Benders w/out Handles - Ductile Iron					
½"	—	4 11/32"	IDEAL	74-001	**10F487**
¾"	½"	5 13/64"	IDEAL	74-002	**10F488**
1"	¾"	6 31/64"	IDEAL	74-003	**10F489**
1¼"	1"	9¾"	IDEAL	74-006	**10F490**
Hand Benders w/out Handles - Aluminum					
½"	—	4 5/16"	Greenlee	840A	**4A732**
¾"	½"	5⅛"	Greenlee	841A	**4A733**
1"	¾"	6½"	Greenlee	842A	**4A734**

Handle Length	For Use With	Brand	Mfr. Model	Item No.
Handles for Hand Benders				
38"	Mfr. No. 74-001, 74-002, 10F496, 74-031	IDEAL	74-019	**10F491**
	6EXR5, 6EXR6	Westward	—	**6EXR8**
	Mfr. No. 56208, 56209	Klein Tools	51427	**4VDG3**
	4A732, 4A733	Greenlee	84H1	**5C635**
44"	10F489 Conduit Bender	IDEAL	74-020	**10F492**
	Mfr. No. 56210	Klein Tools	51428	**4VDG4**
	4A734	Greenlee	84H2	**5C636**
54"	Mfr. No. 56211	Klein Tools	51429	**4VDH8**
55"	Mfr. No. 74-006	IDEAL	74-021	**10F493**



Ratcheting
Reel Stand
No. 1FAH3

Spindle
No. 1FAH4



Screw Type
Reel Stand
No. 5C649

GREENLEE.

Telescoping Reel Stands and Spindles

Use with pins for rough adjustment and a screw-type final height adjustment. Stands have ball bearing rollers. No. 1FAH3 is a ratcheting stand, providing specific adjustments to spool height. Order spindles separately.

Description	Load Capacity	Overall Height	For Use With	Mfr. Model	Item No.
Ratcheting Reel Stand	3750 lb.	28" to 46⅜"	58 to 90" Reel Dia.	656	**1FAH3**
Screw Type Reel Stand	2500 lb.	22" to 54"	46 to 96" Reel Dia.	683	**5C649**
Screw Type Reel Stand	2500 lb.	13" to 27"	28 to 56" Reel Dia.	687	**5C650**
Spindle, 2⅜" dia. x 62"L	6000 lb.	—	No. 5C650	647	**5C652**
Spindle, 2⅜" dia. x 76"L	5000 lb.	—	No. 5C649	684	**5C651**
Spindle, 3½" dia. x 100"L	7500 lb.	—	5C649, 5C650, 1FAH3 Reel Stands	657	**1FAH4**

Combination Drill/Tap and Countersink Sets

GREENLEE. WESTWARD®

Bits drill, tap, and debur mild steel, aluminum, copper, brass, and plastic in 1 step. Back taper prevents thread damage from over-drilling. Made of high-speed steel with split-point drill tip. ¼" shank. Twist drill and plug tap style. Include plastic case and quick-change adapter.

Electrician's Kit—Features hex shank, ¼" quick change professional-grade driver bits, self-centering high-speed drill bits, hammer drill rated carbide grade tips and hardened shank masonry drill bits, quick release chuck, and security bits.


No. 6EXL2

Description	Sizes Incl.	Brand	Mfr. Model	Item No.
6-Pc. Drill/Tap/Countersink Set	6-32, 8-32, 10-24, 10-32, 12-24 and ¼-20	Greenlee	DTAPKIT	4GB12
6-Pc. Drill/Tap/Countersink Set	#6-32, 8-32, 10-24, 10-32, 12-24 and ¼-20	Westward	—	6EXL3
6-Pc. Drill/Tap/Countersink Set	M3 x 0.50, M4 x 0.70, M5 x 0.80, M6 x 1.0, M8 x 1.25 and M10 x 1.50	Greenlee	DTAPKITM	1ANZ3
6-Pc. Drill/Tap/Countersink Set	M3 x 0.50, M4 x 0.70, M5 x 0.80, M6 x 1.0, M8 x 1.25 and M10 x 1.50	Westward	—	6EXL2
6-Pc. Combined Drill/Tap/Countersink Set	8-32NC, 10-32NF, ¼-20NC	Greenlee	LDTAPKIT	30HK33
68-Pc. Electrician's Kit, 6-32, 8-32, 10-32, ¼-20 Tap Sizes	—	Greenlee	DDKIT-1-68	11L585

Size	GREENLEE Mfr. Model	GREENLEE Item No.	WESTWARD Item No.
#6-32	DTAP6-32	1FAL3	6EXL7
#8-32	DTAP8-32	1ANV8	6EXL8
#10-32	DTAP10-32	1FAL1	6EXN0
#10-24	DTAP10-24	1FAJ9	6EXL9
#12-24	DTAP12-24	1FAL2	6EXN1
¼"-20	DTAP1/4-20	1FAJ8	6EXL5
¼"-20	LDTAP1/4-20*	30HK36	—
⅜"-16	DTAP3/8-16	1ANZ5	6EXL6
⅝"-18	DTAP5/16-18	1ANZ4	6EXL4

**Long drill.*

Drill/Tap Countersink Bits

GREENLEE. WESTWARD®

Use on mild steel, aluminum, copper, and brass. Back taper prevents thread damage from over-drilling. Made of high-speed steel with split-point drill tip. ¼" shank. Bright finish.


No. 6EXL5


No. 6EXL4

Size Range	Step Thickness	No. of Hole Sizes	Item No.
Individual Bits			
⅛" to ½"	⅛"	13	6EXN3
3⁄16" to ⅞"	⅛"	12	6EXN4
¼" to 1⅜"	⅛"	10	6EXN5
½" to 1⅛"	⅜"	3	6EXN6
High Speed Steel			
⅛" to 1⅛"	⅛", ⅛", ⅜"	28	6EXN2

Step Drill Bits

WESTWARD®

Double flute design has 2 cutting surfaces for mild steel, copper, aluminum, brass, wood, plastics, and laminates. No pilot hole needed. High-speed steel with oxide-coated finish. Nonskid self-starting tip with 3-flatted shank and ⅜" hex arbor hole. ⅜" shank.


No. 6EXN4

GREENLEE. Milwaukee® WESTWARD®

Hole Cutter Kits

High-Speed Steel—Faster than standard hole saws, with less chance of broken teeth. Split-point drill prevents "walking." Precision-ground teeth cut holes in mild steel up to 10 ga.

Carbide Tipped—Tungsten carbide teeth cut holes in stainless steel, mild steel, aluminum, copper, and brass.


No. 1ANV9


No. 6EXN7

No. of Pieces	Saw Sizes Included	Includes	Brand	Mfr. Model	Item No.
High Speed Steel					
11	⅞", 1⅛", 1⅜", 1¾", 2", 2½"	(3) Arbors, Hex Wrench, Plastic Case	Greenlee	930	4GB13
Carbide Tipped					
5	⅞", 1⅛", 1⅜"	Arbor with Pilot Bit, Additional Pilot Bit	Milwaukee	49-22-8300	48Z664
6	⅞", 1⅛", 1⅜"	Pilot Drill Bit, Hex Key, Plastic Carrying Case	Greenlee	635	1ANV9
6	⅞", 1⅛", 1⅜"	Quick Change Arbor, Pilot Drill Bit, Hex Key, Plastic Carrying Case	Greenlee	655	1ANZ1
7	⅞", 1⅛", 1⅜", 1¾", 2"	Arbor with Pilot Bit, Additional Pilot Bit	Milwaukee	49-22-8310	48Z665
10	⅞", 1⅛", 1⅜", 1¾", 2", 2½"	Arbors (3) 6EXP5, Hex Wrench, Wooden Case	Westward	—	6EXN7

Milwaukee® GREENLEE. WESTWARD®


No. 1FAH8


No. 1XRP5

Hole Cutters and Accessories

Teeth cut stainless steel, mild steel, aluminum, copper, and brass. Flange stop prevents over-drilling. Quick-change arbor system allows cutter head changes with a simple push-on turn. All individual cutters have ⅜" arbor hole.

Saw Dia.	Max. Cutting Depth	Brand	Item No.
Individual Cutters			
Carbide Tipped			
1 1⁄16"	½"	Milwaukee	48Z630
¾"	½"	Milwaukee	48Z631
1 3⁄16"	½"	Milwaukee	48Z632
⅞"	3⁄16"	Greenlee	1FAH8
⅞"	½"	Milwaukee	48Z633
1 5⁄16"	½"	Milwaukee	48Z634
1"	½"	Milwaukee	48Z635
1⅛"	3⁄16"	Greenlee	1FAH9
1⅛"	½"	Milwaukee	48Z637
1⅜"	3⁄16"	Greenlee	1FAJ1

Saw Dia.	Max. Cutting Depth	Brand	Item No.
1⅜"	½"	Milwaukee	48Z641
1½"	½"	Milwaukee	48Z643
1¾"	3⁄16"	Greenlee	1FAJ2
2"	3⁄16"	Greenlee	1FAJ3
High Speed Steel			
⅞"	¼"	Greenlee	1XRN8
1⅛"	¼"	Greenlee	1XRN9
1 7⁄32"	¼"	Greenlee	1XRP1
1⅜"	¼"	Greenlee	1XRP3
1¾"	¼"	Greenlee	1XRP4
2"	¼"	Greenlee	1XRP5
2½"	¼"	Greenlee	1XRP6

Description	Pilot Drill Size	Fits Hole Saw Dia.	Brand	Item No.
Accessories				
For Use with Carbide Cutters				
Hole Saw Arbor	15⁄64" dia. x 3 21⁄32" L	⅞" to 2"	Westward	6EXP5
Quick Change Arbor	⅜" dia. x 2¼" L	⅝" to 2½"	Greenlee	1XRN5
Pilot Drill Bit	⅝" dia. x 2¼" L		Greenlee	1XRN6
Pilot Drill Bit	—	¾" to 2"	Greenlee	1XRN7
For Use with Quick Change Carbide Cutters				
Quick Change Arbor	¼" dia. x 2¾" L	—	Milwaukee	48Z567
Quick Change Arbor	¼" dia. x 2¾" L		Milwaukee	48Z566
For Use with High Speed Steel Cutters				
Hole Cutter Arbor	3⁄16" dia. x 1½" L	⅞" to 1 7⁄32"	Greenlee	1XRP7
Hole Cutter Arbor	¼" dia. x 1½" L	1⅜" to 2½"	Greenlee	1XRP8
Pilot Drill Bit	3⁄16" dia. x 1½" L	⅞" to 1 7⁄32"	Greenlee	1XRP9
Pilot Drill Bit	¼" dia. x 1½" L	1⅜" to 2½"	Greenlee	1XRR1



No. 30HK29



No. 5C634

GREENLEE. WESTWARD®

Punch Driver Sets and Knockout Punches

Hand Pump Hydraulic Driver—Use hydraulic force to punch 10 times faster than traditional wrenches.

Slug Buster® Punch Sets—Punch mild steel, aluminum, fiberglass, and plastic. Operate manually, with ratchet, hydraulic, or battery drivers. Slug is creased and split as punch is drawn into the die, falls free from die and stud.

Slug Splitter® Punch Sets—Punch stainless steel and heavy-ga. mild steel. Operate with ratchet, hydraulic driver, or battery-powered knockout driver.

SPEED PUNCH™ Kits—No thread design eliminates cross-threading. No. 30HK31 includes hydraulic pump unit. No. 30HK30 has battery-powered knockout driver.

Intelli-Punch™—Pressure-sensing technology accurately detects punch completion and automatically retracts the ram. Head rotates 360° to punch at any angle. Powerful 11-ton punching with maximum cycle time of 8 sec. Gator Eye® compatible with i-Press™ software to monitor tool performance.

Standard Round Punches—Punch mild steel, aluminum, fiberglass, and plastic. Operate manually, with ratchet, or hydraulic or battery driver.

Slug Buster SC® Punches—Self-centering feature eliminates the need to use die alignment marks.

No. of Pieces	Includes	Brand	Mfr. Model	Item No.
Punch Driver Sets				
6	LS50L Punch Driver, 18V Li-Ion Battery, 120V Battery Charger, Spacer (1924AA), ¾-16" x 4" Drawstud (31872), ⅜" x 4 5⁄64" Drawstud (20963)	Greenlee	52084931	**15X779**
12	LS50L Punch Driver, 18V Li-Ion Battery, 120V Battery Charger, Spacer (1924AA), ¾-16" x 4" Drawstud (31872), ⅜" x 4 5⁄64" Drawstud (20963), Slugbuster Punches and Dies for ½", ¾", 1", 1¼", 1½" and 2" Conduit	Greenlee	52084925	**15X778**
Knockout Punch Driver Set				
29	Punches and Dies for ½" to 4" Conduit, Mfr. No. 7212SP-12, 7212SP-13, Hydraulic Driver and Hand Pump Unit, Step Bit, Case, Hose, Speed Lock, Sleeve Adapter	Greenlee	7310SBSP	**30HK29**
Hand Pump Hydraulic Driver				
1	Driver with Hand Pump, Draw Studs, Spacers and Plastic Case	Greenlee	52084920	**4NV90**
Slug Buster® Punch Driver Sets				
5	1½, 2" Slug Buster Punches and Dies, Draw Stud and Plastic Carrying Case	Greenlee	52084911	**4A743**
8	Hydraulic Hand Pump Driver, ½, ¾, 1, 1¼, 1½, 2" Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	Greenlee	52084921	**5C633**
9	Quick Draw Hydraulic Driver, ½, ¾, 1, 1¼, 1½, 2" Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	Greenlee	52084917	**5C634**
10	½, ¾, 1, 1¼" Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	Greenlee	52084899	**4A742**
10	Quick Draw Hydraulic Driver, ½" 1, 1¼, 1½, 2" Slug Buster Punches and Dies, (2) Draw Studs, (1) Adapter, (1) Spacer and Plastic Carrying Case	Greenlee	52084924	**1ED77**
11	Quick Draw Hydraulic Driver, ½, ¾, 1, 1¼, 1½, 2" Slug Buster Punches and Dies, (2) Draw Studs, (1) Adapter, (1) Spacer and Plastic Carrying Case	Greenlee	52084918	**4A726**
15	1" Hex Head Ratchet Wrench, ½, ¾, 1, 1¼, 1½, 2" Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	Greenlee	52084913	**5C632**
Slug Splitter® Punch Driver Sets for Stainless Steel				
9	(4) Punches and Dies Sizes ½ to 1¼", 2" Draw Studs, Carrying Case	Greenlee	744	**1XGB7**
10	½, ¾, 1, 1¼, 1½, 2" Slug Splitter Punches and Dies, Draw Studs, Hydraulic Ram, Hand Pump, and Metal Carrying Case	Greenlee	7506	**4CN01**
16	(5) Punches and Dies Sizes ½" to 2", 2" Draw Studs, Carrying Case	Greenlee	7307	**1XGB6**
Knockout Punch Sets				
10	Punches and Dies for 2½", 3", 3½", 4" Conduit, Mfg. No. 29452 Draw Stud, 1557SS Sleeve, Plastic Case	Greenlee	7308	**40H677**
—	Slug Buster ½, ¾, 1, 1¼ Conduit Punches & Dies, Draw Studs, and Case	Greenlee	52084900	**3UME6**
SPEED PUNCH™ Kits				
18	Punches and Dies for ½, ¾, 1, 1¼, 1½, 2" Conduit, Mfr. No. 7212SP-11, 7212SP-13, Step Bit, Case	Greenlee	7907SBSP	**30HK32**
19	Punches and Dies for ½, ¾, 1, 1¼, 1½, 2" Conduit, Mfr. No. 7212SP-11, 7212SP-13, Hand Hydraulic Pump Unit, Step Bit, Case	Greenlee	7908SBSP	**30HK31**
20	Punches and Dies for ½", ¾", 1", 1¼", 1½", 2" Conduit, 7212SP-11, 7212SP-13, LS50L Driver, Charger, Step Bit, Case	Greenlee	LS50L11SBSP	**30HK30**
Intelli-Punch™ Cordless Punch Driver Kits				
—	LS100X Driver, (2) Batteries, 120VAC Charger, Carrying Case	Greenlee Textron	52084933	**53JJ07**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugBuster® ½" to 2" Conduit Punches and Dies, ⅜" Draw Stud, ¾" Draw Stud, (3) Spacers	Greenlee Textron	52084930	**53JJ08**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugBuster® ½" to 4" Conduit Punches and Dies, ⅜" Draw Stud, ¾" Draw Stud, 1⅛" Sleeve Adapter, (3)Spacers	Greenlee Textron	52084935	**53JJ09**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugSplitter® ½" to 2" Conduit Punches and Dies, 7⁄16" Draw Stud, ¾" Draw Stud, (3) Spacers	Greenlee Textron	LS100X11SS	**53JJ12**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugSplitter® ½" to 4" Conduit Punches and Dies, ⅜" Draw Stud, ¾" Draw Stud, 1⅛" Sleeve Adapter, (3) Spacers	Greenlee Textron	LS100X11SS4	**53JJ13**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugSplitter® Speedpunch® ½" to 2" Conduit Punches and Dies, ⅜" Draw Stud, ⅜" Speed Lock, ¾" Draw Stud, ¾" Speed Lock	Greenlee Textron	LS100X11SSSP	**53JJ14**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugBuster® Speedpunch® ½" to 2" Conduit Punches and Dies, ⅜" Draw Stud, ¾" Draw Stud, (3)Spacers	Greenlee Textron	LS100X11SBSP	**53JJ10**
—	LS100X Driver, (2) Batteries, 120V Charger, Carrying Case, SlugBuster® Speedpunch® ½" to 4" Conduit Punches and Dies, ⅜" Draw Stud, ¾" Draw Stud, Speed Lock, 1⅛" Sleeve Adapter	Greenlee Textron	LS100X11SBSP4	**53JJ11**
Manual Knockout Punch Driver Sets				
15	¾, ⅞, 1, 1⅛, 1¼, 1½" Ball Bearing Punches and Dies, Draw Studs and Metal Case	Greenlee	39860G	**4CN28**

Conduit and Pipe Size (in.)	Hole Size Inch	Hole Size Nominal	Brand	Mfr. Model	Item No.
Individual Knockout Punches					
Standard Round Punches					
1¼	—	1.701	Westward	—	**6EXR2**
1½	—	1.953	Westward	—	**6EXR3**
Slug Buster® Punches					
—	0.492	0.492	Greenlee	06727	**1ED80**
—	1	1.000	Greenlee	35178	**1ED81**
Slug Splitter® Punches for Stainless Steel					
½	0.885	0.885	Greenlee	745H-1/2	**4CM97**
—	1.21	1.210	Greenlee	740H-1-7/32	**4CM98**
Large Stainless Steel Punches					
2½	2.914	2.914	Greenlee	745H-2-1/2	**40H678**
3	3.539	3.539	Greenlee	745H-3	**40H679**
3½	4.011	4.011	Greenlee	745H-3-1/2	**40H680**
4	4.544	4.544	Greenlee	745H-4	**40H681**

Description	Conduit and Pipe Size (in.)	Hole Size Nom.	Brand	Mfr. Model	Item No.
SPEED PUNCH™ Punches, Dies, & Accessories					
¾" Punch	¾	1.115	Greenlee	7212SP-3/4P	**40H694**
¾" Speed Punch Lock	—	0.750	Greenlee	SP-LOCK	**40H683**
¾" Die	¾	1.115	Greenlee	7212SP-3/4D	**40H685**
1" Punch	1	1.362	Greenlee	7212SP-1P	**40H695**
1" Die	1	1.362	Greenlee	7212SP-1D	**40H686**
1¼" Punch	1¼	1.701	Greenlee	7212SP-1-1/4P	**40H696**
1¼" Die	1¼	1.701	Greenlee	7212SP-1-1/4D	**40H687**
1½" Punch	1½	1.951	Greenlee	7212SP-1-1/2P	**40H688**
1½" Die	1½	1.951	Greenlee	7212SP-1-1/2D	**40H697**
2" Punch	2	2.416	Greenlee	7212SP-2P	**40H689**
2" Die	2	2.416	Greenlee	7212SP-2D	**40H698**
Draw Stud	¾ x 4.77	—	Greenlee	7212SP11	**40H684**
Draw Stud	¾ x 5.63	—	Greenlee	7212SP12	**40H692**

GREENLEE.



Metal Stud Punch
No. 4A735

Stud Punches

Metal Stud Punch—Automatically centers holes on standard studs. Self-stripping design eliminates punch hang-ups. 1 11/32" punched size dia.

BX Stud Punch—Manually punches a square hole and rolls the edges over for smooth installation.

Plumber Stud Punch—Punches a 2 5/8" dia. hole and removes slug. Use to install 2" waste water vent pipes.

Description	Studding Capacity	Mfr. Model	Item No.
Metal Stud Punch	20 ga Steel Studs	710	**4A735**
BX Stud Punch	20 ga Steel Studs	724	**1ED78**
Plumber Stud Punch	20 to 24 ga Steel Studs	713	**1ED79**
Bushings, For Use with No. 4A735, Pkg. of 100		712A100	**4A766**

GREENLEE.



No. 4JA56

Hole Punches

Punch holes in mild steel up to 10-ga. (3.0mm) for switch and/or instrument installation. Centering marks allow accurate hole alignment. For use with manual wrench or hydraulic driver. No. 4NV75 is for hydraulic drives only.

Hole Size (in.)	Mfr. Model	Item No.
Square Shaped Hole Punches		
0.5	60001	**4JA55**
0.75	61007	**4JA56**
1	60016	**4JA57**
1.811 x 1.811	60019	**4NV75**
"D" Shaped Hole Punches		
0.500 x 0.469	60077	**4JA58**
0.625 x 0.594	61080	**4JA59**
0.750 x 0.703	61083	**4JA60**
Double "D" Shaped Hole Punch		
0.769 x 0.642	61086G	**4JA61**
Manual Hole Punch		
4	52078	**48ZW91**

IDEAL. GREENLEE. RIDGID

Cordless Crimpers and Cable Cutters

- 18V tools use lithium ion batteries
- Include batteries, charger, and case
- For replacement batteries, see Grainger.com®

Ridgid RE 6 Crimp/Cut 3-in-1 tools can cut wire, crimp lugs, and punch boxes. No. 53JH94 features a 750 mcm cutting capacity for copper and aluminum connectors. No, 53JH95 features a 600 mcm cutting capacity for copper connectors and a 350 mcm cutting capacity for aluminum connectors.



No. 3CCT6



No. 48ZW88



No. 53JH95

Voltage	Cutting Cap./Material	Brand	Mfr. Model	Item No.
Cutting Tools				
Drill Powered Cable Cutter				
—	Up To 750 MCM Hard Drawn Copper, 1000 MCM Aluminum	IDEAL	35-078	**3CCT6**
Gator® Cordless Bolt Cutter				
18.0	½" Dia. Common Bolt, 7/16" Dia. Grade 5 Bolt, ½" Dia. Threaded Rod	Greenlee Textron	ETS12LX11	**53JH97**
Gator® Cordless Cable Cutter				
18.0	1/16", 5/16" Cable Tray (Mild Steel, Zinc Plated), 1/16", 5/16" Cable Tray (Stainless Steel), 1/16", 5/16" Steel Bolts (Grade 2) , 1/16", 3/16" Steel Bolts (Grade 8)	Greenlee Textron	ETS8LX11	**53JH96**
18.0	2" (60mm) Copper/Aluminum Wire	Greenlee Textron	ESG50LX11	**53JJ03**
18.0	4" Communications Cable	Greenlee Textron	ESC85LX11	**53JJ04**
18.0	500 MCM Copper, 500 MCM Aluminum	Greenlee Textron	ES32LX11	**53JH98**
18.0	500 MCM Copper, 500 MCM Aluminum	Greenlee Textron	ES32FLX11	**53JH99**
18.0	ACSR, Guy Strand, Steel	Greenlee Textron	ES20LX11	**53JJ01**
Gator® Cordless Wire Cutter				
18.0	ACSR, Guy Strand, Steel	Greenlee Textron	ESG45LX11	**53JJ05**
18.0	ACSR, Guy Strand, Steel	Greenlee Textron	ESG25LX11	**53JJ02**
18.0	ACSR, Guy Strand, Steel, 2 3/16" dia. Copper and Aluminum	Greenlee Textron	ESG55LX11	**53JJ06**
Hydraulic Cable Cutter				
—	4.13" (105mm)/Copper, Aluminum, Communications, Lead Armored, Soft Steel Amored Cable	Greenlee	SDK105	**15X818**
Micro Cutter® Cordless Bolt Cutter				
10.8	½" Dia. Common Bolt, 7/16" Dia. Grade 5 Bolt, 5/16" Dia. Grade 8 Bolt, ½" Dia. Threaded Rod, One-Time Disposable Lock 4-AWG Alumoweld, BL-9 Boa-Lock, 3/8" Dia. Grade 40 Rebar, 3/8"Dia. (½" Dia. In Two Cycles)	Greenlee Textron	EBS12ML110	**53JJ17**
Micro Cutter® Cordless Micro-Cable Cutter				
10.8	300 MCM Cu Cable, 400 Kcmil (MCM), 240 Mm2 Aluminum 750 kcmil (MCM) (380 mm2)	Greenlee Textron	ES32ML110	**53JJ15**
10.8	500 MCM Fine Stranded Copper Cable	Greenlee Textron	ES32FML110	**53JJ16**

Voltage	Head Style	Handle Type	Crimping Force	Brand	Mfr. Model	Item No.
Crimping Tools						
Cordless Crimping Tool Kit						
18.0	Latching	Straight	6 tons	Ridgid	52093	**48ZW88**
18.0	Latching	Straight	6 tons	Ridgid	52098	**48ZW89**
Gator® Cordless Crimping Tool						
18.0	Latching	Straight	4 tons	Greenlee Textron	EK410LX11	**53JH84**
18.0	Latching	Pistol	6 tons	Greenlee Textron	EK6FTLX11	**53JH92**
18.0	Open	Pistol	6 tons	Greenlee Textron	EK6ATLX11	**53JH91**
18.0	Latching	Straight	6 tons	Greenlee Textron	EK6IDLX11	**53JH90**
18.0	Latching	Pistol	6 tons	Greenlee Textron	E6CCXLX11	**53JH95**
18.0	C-Head	Pistol	12 tons	Greenlee Textron	EK1230LX11	**53JH88**
18.0	Latching	Pistol	12 tons	Greenlee Textron	EK12IDLX11	**53JH93**
18.0	C-Head	Pistol	12 tons	Greenlee Textron	EK1240LX11	**53JH87**
18.0	Latching	Pistol	12 tons	Greenlee Textron	E12CCXLX11	**53JH94**
18.0	Latching	Pistol	15 tons	Greenlee Textron	EK1550FLX11	**53JH89**
Gator® Cordless Crimping Tool Kit						
9.6	Scissor	Straight	6 tons	Greenlee Textron	EK425LXDBG11	**53JH83**
18.0	Scissor	Straight	6 tons	Greenlee Textron	EK628LX11	**53JH85**
18.0	Latching	Straight	6 tons	Greenlee Textron	EK622LX11	**53JH86**

Description	For Use With	Brand	Mfr. Model	Item No.
Crimping Die Sets				
Upper and Lower Crimping Die Set	Mfr. No. E12CCX11	Greenlee	KD12CU	**1XGB2**
Includes Dies for #6-750 kcmil Aluminum Connectors		Greenlee	KD12AL	**1XGB3**
Includes Dies for #8-600 kcmil Copper Connectors & Carrying Case	Mfr. No. ECCX11	Greenlee	K22S1GL	**6XH29**
Includes 11 Dies for #8-300 kcmil Copper Connectors	Mfr. No. EK410L	Greenlee	KC4CU	**1ED67**
Cordless Crimping Tool Kit	—	Ridgid	52088	**48ZW90**

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Wire Cutter Scissor Head	Mfr. No. RE 6 ELCTRICAL TOOL 3-PIECE KIT, RE 6 ELCTRICAL TOOL 2-PIECE KIT, RE 6 ELECTRICAL TOOL	Ridgid	SC-60C	**36HU91**
Crimping Head		Ridgid	4P-6	**36HU89**
Remote-Powered Crimper	External Hydraulic Pump	Greenlee	RK1240	**15X819**
Gator® Hydraulic Pump with Intelli-Crimp™	—	Greenlee	EHP700L11	**21TX97**
Gator® Diagnostic Tool	Mfr. No. EHP700L: Electric Hydraulic Pump	Greenlee	Gator-EKG	**21TX99**

Find our full selection of Insulated Tools at Grainger.com®.



4-Pc. Plier/Cutter/ Stripper Set No. 1YXJ5



Westward® 10-pc. Screwdriver/ Plier Set No. 1YXJ7



10-pc. Socket Set No. 26X320



11-Pc. Insulated Tool Set No. 2TDP7

Insulated Tool Sets

Note: For a complete list of components, go to Grainger.com®.

No. of Pieces	Description	Includes	Mfr. Model	Item No.
Westward				
4	Insulated Plier/Cutter/Stripper Set	Pliers: Combination Pliers 8", Heavy-Duty Diagonal Cutting Nippers 8", Long-Nose Pliers 8", Wire Strippers 6½".	—	**1YXJ5**
7	Insulated Screwdriver/Plier Set	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	—	**1YXJ6**
10	Insulated Screwdriver/Plier Set	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	—	**1YXJ7**
Klein Tools				
8	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter Wire Stripper/Cutter & Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter, Wire Stripper/Cutter and Zippered Polyester Case with Custom-Fitted Tool Pockets 15¼" W x 11" D x 2¼" H	33526	**1N046**
8	Premium Klein-Kurve Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter, Lineman's Skinning Knife, and Bright Yellow Carrying Case	33529	**1YRY8**
13	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wire Stripper/Cutter, Cable Cutter, Lineman's Skinning Knife, Crimping/Cutting Tool, and No. 33537 Extra-Sturdy Bright Yellow Case	33525	**3KGV3**
22	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter, Klein-Kurve® Wire Stripper, & Zippered Polyester Case with Custom Fitted Tool Pockets 15¼"W x 11" D x 2¼"H	33527	**1N047**
Knipex				
5	High Leverage Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 21 US	**2DZD8**
7	Commercial Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 26 US	**2DZD9**
7	Basic Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 27 US	**2DZC8**
8	Open End Wrench Set - SAE	Wrenches: Open End Wrenches: ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", ¾"	98 99 13 S4	**2DZC6**
8	Open End Wrench Set- Metric	Wrenches: Open End Wrenches: 8, 10, 13, 14, 17, 19, 22, 24mm	98 99 13 S5	**2DZC7**
10	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Cable Shears 6½"	9K 98 98 31 US	**2DZE1**
10	Insulated ⅜" Drive Ratchet/ Socket Set -SAE	⅜" Dr Reversible Ratchet 7¾", (2) ⅜" Dr Extensions: 5", 10"	98 99 11 S3	**2DZC2**
Wiha				
3	Adjustable Wrench Set	Wrenches: 8", 10", 12" Overall Length, 1", 1½" Jaw Capacity	76290	**26X328**
7	Insulated Socket Bit Set	(7) ⅜" Dr 6 pt. Socket Bits: 3/16", 7/32", ¼", 5/16", ⅜", 7/16", ½"	31890	**26X319**
7	Box End Wrench Set - Metric	Wrenches: 8mm, 10mm, 12mm, 13mm, 14mm, 17mm, 19mm	21290	**26X332**
8	Open End Wrench Set	Wrenches: 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾"	20192	**26X340**
10	Professional Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Black Cordura Case	32891	**5LX08**
10	Insulated Socket Wrench Set	⅜" Dr Ratchet, ⅜" Dr Extension 5", Storage Box	31493	**26X320**
10	Insulated Socket Wrench Set, Metric	⅜" Dr Ratchet, ⅜" Dr Extension 5", Storage Box	31590	**26X321**
11	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, & Roll Up Pouch	32986	**26X233**
13	Insulated Socket Wrench Set	¼" Dr Ratchet 140mm, (2) ¼" Dr Extensions: 50, 100mm, Plastic Box	31391	**26X316**
14	Screwdriver/Plier Set	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Zippered Carry Case	32192	**1YUL6**
15	Screwdriver/Nutdriver Set	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Zippered Bag	32190	**1YUL5**
16	Insulated Socket Set	Sockets: (16) ⅜" Dr 12 pt. Sockets: 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾", 8, 10, 11, 12, 13, 14, 17, 19mm	31491	**26X322**
66	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches & Rugged 23" Tool Box	32876	**6UUG7**
80	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches, Sockets & Watertight Rolling Tool Case	32800	**26X224**
80	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches, Sockets & Molded Tool Box	32877	**26X240**
Greenlee				
7	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, & Nylon Tool Roll	0159-01-INS	**11L611**
Jonard Tools				
11	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	TK-110INS	**2TDP7**



No. 31CE75

Insulated Tool Kits

Protect against electrical shock up to 1000V. C.H. Hanson and Wiha meet IEC 60900:2004 standards.

Description	No. of Pieces	Tool Families Included	Tool Storage Type Included	Brand	Mfr. Model	Item No.
Insulated Electrician's Tool Kit	9	Electrical and Telecomm Tools, Pliers, Screwdrivers	Roll	Jameson/Itl	00003	**31CE76**
Insulated General Purpose Tool Kit	9	Pliers, Screwdrivers, Wrenches	Roll	Jameson/Itl	00006	**31CE75**
Insulated Screwdriver Set	6	—	—	Jameson/Itl	02100	**19MV19**
Insulated Tool Kit	5	Pliers, Screwdrivers	None	Knipex	9K 98 98 22 US	**38UU08**
	7	Pliers, Screwdrivers	Roll	Knipex	9K 98 98 25 US	**38UU09**
	10	Electrical and Telecomm Tools, Pliers, Screwdrivers	Case	Knipex	9K 98 98 30 US	**38UU10**
	24	Cutting Tools, Pliers, Screwdrivers, Sockets and Accessories, (4) ⅜" Dr 6 pt. Sockets: ¼", 9/32", 5/16", 11/32", (7) ⅜" Dr 12 pt. Sockets: ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾"	Case	Wiha	31495	**8GYN8**
	24	Cutting Tools, Pliers, Screwdrivers, Sockets and Accessories, (11) ⅜" Dr Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19mm	Case	Wiha	31592	**8GYN9**

Find our full selection of Insulated Tools at Grainger.com®.

Item	Type	Overall Length	Jaw Length	Jaw Width	Brand	Mfr. Model	Item No.
Adjustable Wrench	—	8 in	—	—	Wiha	76208	26X329
	—	8 in	—	—	Irega	IR92SI8	5MK51
	—	10 in	—	—	Wiha	76210	26X325
	—	10 in	—	—	Irega	IR92SI10	5MK50
	—	10 in	—	—	Westward	—	5UFY6
	—	10 in	—	—	Knipex	98 07 250	10G263
	—	12 in	—	—	Wiha	76212	26X326
	—	15 in	—	—	Wiha	76215	26X327
	—	15 in	—	—	Jameson/Itl	03020	31CE69
Bent Needle Nose Plier	—	8 in	2 1/2 in	7/8 in	Wiha	32804	5LW93
Cable Cutter	Ratcheting	10 in	—	—	Greenlee	45206I	11L625
	Ratcheting	11 in	—	—	Greenlee	45207I	11L626
Crimper	—	9 3/4 in	—	—	Klein Tools	1005-INS	1N041
Diagonal Cutting Plier	—	5 1/4 in	1/2 in	29/64 in	Westward	—	3WY52
	—	6 5/16 in	3/4 in	31/32 in	Wiha	32933	26X257
	—	6 1/4 in	1 in	1/4 in	Jameson/Itl	00101	19MU93
	—	8 in	13/16 in	1 in	Greenlee	0251-08A-INS	11L612
	Dynamic Joint	6 5/16 in	13/16 in	55/64 in	Wiha	32861	26X254
	Dynamic Joint	8 in	13/16 in	1 1/8 in	Wiha	32929	26X258
	Heavy Duty	6 5/16 in	3/4 in	31/32 in	Wiha	32832	5LW98
	Heavy Duty	6 1/4 in	39/64 in	15/16 in	Westward	—	5UFV7
	Heavy Duty	7 in	13/16 in	1 1/8 in	Wiha	32834	5LW99
	Heavy Duty	7 7/8 in	1 in	31/32 in	Klein Tools	D220-7-INS	1N091
	w/Angled Head	8 in	53/64 in	1 13/64 in	Westward	—	5UFV8
Dieless Crimper	Terminal	9 3/4 in	—	—	Greenlee	KP1022-INS	11L628
High Leverage Cable Cutter	High Leverage	9 5/8 in	—	—	Klein Tools	63050-INS	1N067
High Leverage Diagonal Cutting Plier	High Leverage	7 in	13/16 in	1 1/8 in	Wiha	32836	5LX01
	High Leverage	8 in	13/16 in	1 1/8 in	Wiha	32838	5LX02
	High Leverage	8 in	7/8 in	1 1/16 in	Knipex	74 08 200 SBA	2DZD7
	High Leverage	8 1/4 in	13/16 in	1 3/16 in	Klein Tools	D2000-28-INS	1N074
	High Leverage	8 1/4 in	13/16 in	1 3/16 in	Klein Tools	D228-8-INS	1N092
	High Leverage	10 in	7/8 in	1 1/16 in	Knipex	74 08 250 SBA	2DZD2
	High Leverage, Angled Head	8 1/4 in	13/16 in	1 3/16 in	Klein Tools	D2000-48-INS	1N075
	High Leverage, Angled Head	8 1/4 in	13/16 in	1 3/16 in	Klein Tools	D248-8-INS	1N093
	High Leverage, Heavy Duty	7 in	53/64 in	1 1/8 in	Westward	—	5UFV5
	Safety High Leverage	8 in	7/8 in	1 1/8 in	Westward	—	1YXJ4
Insulated Cable Cutter	—	6 1/2 in	—	—	Knipex	95 18 165 SBA	2DZD5
	—	10 in	—	—	Jameson/Itl	00130	31CE83
	—	20 in	—	—	Knipex	95 17 500	2DZA2
Insulated End Cutting Nippers	—	10 in	—	1 in	Wiha	29250	26X255
	Dynamic Joint	6 5/16 in	1 1/4 in	1 1/2 in	Wiha	32947	26X262
Insulated Ratcheting Cable Cutter	—	11 in	—	—	Knipex	95 36 280 SBA	21XJ96
Linemans Plier	—	7 in	13/16 in	3/8 in	Wiha	32816	5LW96
	—	8 in	1 13/16 in	1 5/32 in	Wiha	32818	5LW97
	—	8 in	1 5/8 in	1 3/16 in	Westward	—	3WY50
	—	9 1/2 in	1 5/8 in	1 1/4 in	Greenlee	0151-09-INS	11L599
	Dynamic Joint	9 in	1 13/16 in	1 5/32 in	Wiha	32917	26X259
	High Leverage	8 in	1 13/16 in	1 5/32 in	Wiha	32930	26X256
	High Leverage	9 1/8 in	1 1/2 in	1 1/4 in	Knipex	09 08 240 SBA	2DZC9
	High Leverage	9 in	1 1/2 in	1 1/64 in	Knipex	02 08 225 SBA	2DZD6
	High Leverage	9 3/8 in	1 19/32 in	1 5/16 in	Klein Tools	D2000-9NE-INS	1N077
	High Leverage	9 5/8 in	1 19/32 in	1 5/16 in	Klein Tools	D213-9NE-INS	1N090
	High Leverage With Crimping Die	9 5/8 in	1 19/32 in	1 5/16 in	Klein Tools	D213-9NE-CR-INS	1N089
	w/Crimper, 5-in-1	9 in	1 13/16 in	1 5/32 in	Wiha	32821	26X264
	w/Crimping Die	8 1/2 in	1 7/8 in	1 1/6 in	Westward	—	5UFV4
	With Crimping Die	8 7/8 in	1 25/32 in	1 1/32 in	Klein Tools	12098-INS	1N043
Long Nose Plier	—	6 in	2 in	3/4 in	Westward	—	3WY56
	—	8 in	3 in	11/16 in	Knipex	26 18 200 SBA	2DZD1
	—	8 in	2 1/4 in	2 in	Greenlee	0351-08-INS	11L621
	Dynamic Joint	8 in	2 3/4 in	3/4 in	Wiha	32923	26X260
	Safety High Leverage	8 1/8 in	2 7/8 in	3/4 in	Westward	—	1YXJ3
Needle Nose Plier	—	6 19/64 in	1 7/8 in	11/16 in	Wiha	32806	5LW94
	—	6 1/4 in	2 in	1/4 in	Jameson/Itl	00051	19MU90
	—	6 7/8 in	1 15/16 in	11/16 in	Klein Tools	D203-6-INS	1N084
	—	7 3/8 in	2 7/16 in	11/16 in	Klein Tools	D203-7-INS	1N085
	—	8 in	2 1/2 in	7/8 in	Wiha	32808	5LW95
	—	8 7/8 in	2 5/16 in	1 in	Klein Tools	D203-8-INS	1N086
	Dynamic Joint	6 5/16 in	1 7/8 in	11/16 in	Wiha	32926	26X261
	Heavy Duty With Skinning Hole	8 7/8 in	2 5/16 in	1 in	Klein Tools	D203-8N-INS	1N087
Plier Wrench	Box Joint	10 in	1 3/16 in	21/64 in	Knipex	86 07 250 SBA	2DZD4
Round Nose Plier	—	6 19/64 in	1 61/64 in	45/64 in	Wiha	32870	5LX06
	—	6 1/4 in	1 7/8 in	45/64 in	Westward	—	5UFV9
Skinning Knife	—	8 3/4 in	—	—	Klein Tools	1571INS	49C233
	385 VDE	7 in	—	—	Westward	—	5UFW0
Water Pump Plier	10" Pump Pliers	10 1/4 in	—	—	Klein Tools	D502-10-INS	1N095
	Box Joint	10 in	1 7/16 in	1 1/4 in	Knipex	88 08 250 SBA	2DZD3
	Safety High Leverage	10 in	1 1/4 in	3/8 in	Westward	—	1YXJ2
Wire Stripper	—	6 5/16 in	—	—	Wiha	32860	5LX05
	—	6 3/8 in	—	—	Wiha	10250	26X265
	—	6 1/2 in	—	—	Westward	—	3WY55
	—	6 1/4 in	—	—	Knipex	11 07 160	2DYW1
	—	7 in	—	—	Klein Tools	11045-INS	1N042
	—	7 in	—	—	Klein Tools	11049-INS	1YBR4
	—	8 in	—	—	Klein Tools	11055-INS	1YBR1

















Insulated Tools

Wiha Tools—Flame-retardant, permanent epoxy-bonded handles are impact tested for all-temperature use. Chrome finish, soft grip. Dynamic joint provides 40% easier cuts and longer tool life.

Westward®—Made of chrome vanadium steel with drop-forged induction-hardened cutting edges and flame-retardant, ergonomic grips.

Knipex®—Cold impact strength is tested at -25°C. Polished, dual-component tools come with hard/soft hand grips. Insulated slip guard avoids spark-over or current passage from the bare plier to the operator's hand and withstands knocks without breaking or splitting. Certified to 1000VAC.

Greenlee®—Dual-layer insulation provides for maximum protection. Guards protect hand from accidental contact with energized surface.

Klein Tools®—Grips consist of 2 layers; inner layer is bonded to the tool. U.S. tool steel is forged, machined, and tempered with induction-hardened cutting edges.



5-pc. Set
No. 1YXN8

No. of Pieces	Includes	Shank Length (in.)	Overall Length (in.)	Item No.
Hollow Insulated Nut Driver Sets				
Klein				
9	3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8"	6	9¾ to 11⅜	**1YRY7**
Solid Insulated Nut Driver Sets				
Westward				
5	6, 7, 8, 9, 10mm	5	9½	**1YXN8**
5	1/4, 5/16 , 3/8, 7/16, 1/2"	5	9½	**1YXN9**
Wiha				
5	7/32, 1/4, 5/16, 3/8, 1/2"	5	9.3 to 9.6	**5LW91**
5	6, 7, 8, 9, 10mm	5	9.3 to 9.6	**5LW90**
7	5, 5.5, 6, 7, 8, 10, 13mm	5	9.3 to 9.6	**26X275**
9	3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8"	5	9.3 to 9.6	**26X274**
11	5/32, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8"	5	9.3 to 9.6	**26X273**

KLEIN TOOLS · WESTWARD · wiha Tools that work for you

Insulated Nut Drivers

Comfortable cushion grips are coded for size. Sets are rated 1000V.

Klein Tools—Tip-Ident® quickly identifies nut driver size. Cordura® nylon case included with sets. 2-layer insulation.

Westward®—Insulation molded around blade and handle. Handles feature tri-lobular, high-torque grips. Full-length insulated shafts.

Wiha—Soft Finish® handles. Molded-on insulation meets applicable EN/IEC, ASTM, NFPA and VDE standards.

Hex Size	Nut Driver Shank Length	Nut Driver Overall Length	Item No.
Hollow Nut Drivers			
Klein Tools			
3/16"	6"	9¾"	**1YRX7**
1/4"	6"	9¾"	**1YRX6**
5/16"	6"	9¾"	**1YRX9**
11/32"	6"	9¾"	**1YRX4**
3/8"	6"	9¾"	**1YRX8**
7/16"	6"	9¾"	**1YRY2**
1/2"	6"	11⅜"	**1YRX5**
9/16"	6"	11⅜"	**1YRY3**
5/8"	6"	11⅜"	**1YRY1**
Westward®			
3/16"	5"	9¼"	**5UFX7**
1/4"	5"	9¼"	**5UFX8**
1/4"	5"	9½"	**1YXK9**
5/16"	5"	9½"	**1YXL1**
11/32"	5"	9¼"	**5UFY0**
3/8"	5"	9¼"	**5UFY1**
3/8"	5"	9½"	**1YXL3**
7/16"	5"	9¼"	**5UFY2**
7/16"	5"	9½"	**1YXL4**
1/2"	5"	9¼"	**5UFY3**
1/2"	5"	9½"	**1YXL5**
Solid Nut Drivers			
Wiha Tools			
3/16"	5"	9 5/16"	**1YUG5**
7/32"	5"	9 5/16"	**1YUG6**
1/4"	5"	9½"	**1YUG7**
5/16"	5"	9½"	**1YUG8**
11/32"	5"	9½"	**1YUG9**
3/8"	5"	9½"	**1YUH1**
7/16"	5"	9½"	**1YUH2**
1/2"	5"	9½"	**1YUH3**
9/16"	5"	9½"	**1YUH4**
5/8"	5"	9½"	**1YUH5**



Straight Tweezer
No. 26X271



Bent Tweezer
No. 2DYZ7

wiha Tools that work for you · KNIPEX

Insulated Tweezers

Description	L	Brand	Mfr. Model	Item No.
Straight, Serrated, Blunt Tip	5"	Wiha Tools	75210	**26X268**
Straight, Serrated, Blunt Tip	6"	Wiha Tools	75215	**26X269**
Straight, Serrated, Blunt Tip	8"	Wiha Tools	75220	**26X270**
Straight, Serrated, Fine Tip	5"	Wiha Tools	75205	**26X271**
Straight, Serrated, Wide Tip	5¾"	Knipex	92 67 63	**2DYZ8**
Bent, Serrated, Narrow Tip	6"	Knipex	92 37 64	**2DYZ7**
Angled, Serrated, Blunt Tip	8"	Wiha Tools	75304	**26X266**
Angled, Serrated, Fine Tip	6"	Wiha Tools	75302	**26X267**



Ergonomic, 6-pc. Set
No. 1YUL8

wiha Tools that work for you

Insulated Hex Key Sets



L-Shaped, 12-pc. Set
No. 26X330

Proportioned high-torque handles. Plain models meet applicable EN/IEC, ASTM, VDE, DIN, and NFPA70E standards.

No. of Pieces	Sizes Included	Mfr. Model	Item No.
Ergonomic			
6	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	33490	**1YUL8**
L-Shaped			
10	1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm	13693	**26X331**
12	3/8", 1/8", 1/2", 5/32", 3/16", 7/32", 1/4", 5/16", 1/16", 5/64", 3/32", 7/64"	13694	**26X330**



No. 26X276

wiha Tools that work for you

Insulated Torque Wrench Sets

Certified to EN ISO 6798, BS EN 26789, and ASME B107.14M.

No. of Pieces	Description	Overall Length	Item No.
8	SlimLine Blade Holder, (3) SlimLine Slotted Blades 3.0, 4.0, 5.5mm, (2) SlimLine Phillips Blades #1, #2, Torque Adjustment Tool, Pouch	6"	**26X280**
16	SlimLine Blade Holder, (3) SlimLine Slotted Blades 4.0, 5.5, 6.5mm, (2) SlimLine Phillips Blades #1, #2, (2) Terminal Xeno Blades #1, #2, (4) TORX® Blades T8, T10, T15, T20, (2) Square Blades #1, #2, Torque Adjustment Tool, Pouch	6 5/16"	**26X276**



Cabinet Tip
No. 1YXK2



Keystone Slotted Tip
No. 1YUF8



Phillips Tip
No. 5UFW8



Square Recess Tip
No. 5UFX1

WESTWARD KLEIN TOOLS GREENLEE wiha Tools that work for you

Ergonomic Cushion-Grip Insulated Screwdrivers

Intended for protection from accidental tool contact with voltage up to 1000V.

Westward®—Trilobular (3-sided) grips provide high torque and have full-length insulation on the shanks.

Wiha SoftFinish® —Molded-on insulation. Meets applicable EN/IEC, ASTM, NFPA, and VDE Standards.

Klein Tools—Sure-grip handles have 2 layers of insulation.

Greenlee—Dual layer insulation. Precision-machined, black phosphate-plated tips for accurate fastener contact. Meet applicable IEC and ASTM Standards.

Tip Size	Shank Length	Brand	Item No.
Cabinet Tip			
3/32"	3"	Westward	1YXJ8
3/32"	3"	Klein Tools	49C224
1/8"	4"	Westward	1YXJ9
1/8"	4"	Klein Tools	49C225
5/32"	4"	Westward	1YXK1
3/16"	4"	Klein Tools	1N049
3/16"	7"	Klein Tools	49C226
3/16"	8"	Greenlee	11L607
7/32"	5"	Westward	1YXK2
1/4"	4"	Klein Tools	1N053
1/4"	6"	Westward	1YXK3
1/4"	7"	Klein Tools	49C227
5/16"	7"	Westward	1YXK4
5/16"	7"	Klein Tools	49C228
3/8"	8"	Klein Tools	49C229
Keystone Slotted Tip			
9/64"	4"	Wiha	1YUF8
3/16"	5"	Wiha	1YUF9
3/16"	6"	Greenlee	11L606
1/4"	4"	Greenlee	11L602
1/4"	6"	Wiha	1YUG1
5/16"	6"	Greenlee	11L603
5/16"	7"	Westward	5UFW6
3/8"	8"	Westward	5UFW7
3/8"	10"	Greenlee	11L604
Phillips Tip			
#1	3 3/16"	Westward	5UFW8
#1	3 3/16"	Westward	1YXK5
#1	4"	Klein Tools	49C230
#2	4"	Westward	5UFW9
#2	4"	Westward	1YXK6
#2	4"	Klein Tools	1N056
#2	4"	Greenlee	11L609
#2	7"	Klein Tools	49C231
#3	6"	Westward	5UFX0
#3	6"	Westward	1YXK7
#3	6"	Greenlee	11L610
#3	7"	Klein Tools	49C232
Robertson Square Recess Tip			
#1	4"	Klein Tools	49C222
#1	6"	Westward	5UFX1
#1	6"	Greenlee	11L622
#2	4"	Klein Tools	49C223
#2	6"	Westward	5UFX2
#3	6"	Westward	5UFX3

No. of Pieces	Includes	Blade Length (in.)	Brand	Item No.
Insulated Screwdriver Sets				
Combination				
2	1/4", #2	4	Klein Tools	1AHE5
2	3/16", #2, Slimline Blades	3 1/8 to 5 15/16	Wiha	26X283
4	9/64", 3/16", #1, #2	3 to 5	Wiha	5LW88
6	9/64", 3/16", 1/4", #1, #2, #3	3 to 10	Wiha	5LW89
6	3/16", 1/4", #1, #2, Slimline Blades	3 1/8 to 5 15/16	Wiha	26X286
6	3/16", 1/4", #1, #2	3 1/8 to 5 15/16	Wiha	26X287
8	9/64", 5/32", 3/16", #1, #2, Slimline Blades	3 1/8 to 5 15/16	Wiha	26X285
9	3/16", 1/8", 1/4", 5/16", 3/8", #1, , #2, #3, w/Case	3 to 10	Klein Tools	1N048
9	#1, #2, #3, 1/4", 3/16", 5/16", 3/8"	—	Greenlee	11L601
9	1/8", 3/32", 5/32", 7/32", 1/4", 5/16", #1, #2, #3,w/Zipper Bag	2 to 7	Westward	1YXN6
11	9/64", 5/32", 3/16", 7/32", 1/4", #1, #2, Slimline Blades	3 1/8 to 5 15/16	Wiha	26X281
19	3/32", 1/8", 9/64", 5/32", 3/16", 7/32", 15/64", 1/4", 5/16", 3/8", #0, #1, #2, #3, #4, Voltage Detector in Tray	3 to 8	Wiha	26X279
Hex				
6	2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm, 8.0mm	3 to 3 15/16	Wiha	26X278
TORX®				
6	T8, T9, T10, T15, T20, T25	2 5/16 to 3 1/8	Wiha	5LW92



6-Pc. Combination
No. 5LW89

Wera Be a Tool Fetish wiha Tools that work for you WESTWARD

Insulated Multibit Screwdriver Sets

No. of Pieces	Includes	Brand	Item No.
7	Phillips #1, #2, Robertson Square Recess #1, #2, Slotted 0.6, 1.0mm	Wera	3EKC7
9	Phillips #1, #2, Slotted 4.0, 6.5mm, Torx® T15, T20, Xeno: #2	Wiha	26X284
11	Phillips #1, #2, #3, Slotted 1/8", 5/32", 1/4", 5/16", Torx(R) T15, T20, T25	Westward	5UFX4
15	Phillips #1, #2, Robertson Square Recess #1, #2, Slotted 3.0, 4.0, 5.5, 6.5mm, Torx® T8, T10, T15, T20, Xeno #1, 2	Wiha	26X282



15-Pc.
No. 26X282

Tether-Ready Tools

When working at heights, it's imperative to secure hand tools to a fixed point to prevent injuries caused by dropping. Proto® SkyHook™ Tether and Transfer systems provide positive control of hand tools at height, secure tool transfers, and a free range of motion. SkyHook™ switch connector tethers to the tool on a short lanyard and is compatible with screw-gate carabiners. Allows hands-free tool transfer. SkyDock™ attachment anchors SkyHook connector to the wrist, belt, apron, or station. Tools can be tethered with shrink loops, tool collars, lanyards, or bungees for use with the system.



Easy hands-free tool transfer

Keep tools securely connected to wrist or belt





No. 24AL34



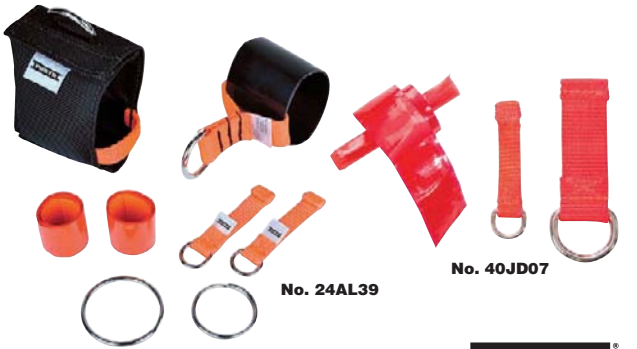
No. 24AL42

PROTO®

SkyHook™ Components and Kits

SkyHook™ switch connector tethers to the tool on a short lanyard. SkyDock™ attachment securely anchors the SkyHook to wrist, belt, or apron.

Description	Mfr. Model	Item No.
SkyHook™ Kits		
SkyHook™ Switch Connector and SkyDock™ Storage Attachment	JPST1	**24AL36**
SkyHook™ Switch Connector, SkyDock™ Storage Attachment, and SkyHook™ Wrist Strap	JPS1	**24AL34**
(2) SkyHooks™, (2) SkyDocks™, and (2) Wrist Straps	JPS2	**24AL35**
(4) SkyHooks™ Switch Connectors, (4) SkyDocks™ Storage Attachments, and (2) SkyHook™ Wrist Straps	JPSSCAFF4	**39CE45**
(5) SkyHooks™, (5) SkyDocks™, and (2) Wrist Straps	JPSSCAFF5	**24AL38**
Components		
SkyDock™ Storage Attachment	JPSDOCK	**39CE44**
SkyHook™ Switch Connector	JPS	**39CE41**
SkyHook™ Wrist Strap	JWS-SH	**39CE42**
Storage Kits		
SkyHook™ Single Dock Pouch and SkyHook™ Switch Connector	JPSTLPKT1	**39CE47**
SkyDock™ Dual Dock Pouch and (2) SkyHook™ Switch Connectors	JPSTLPKT2	**24AL42**
SkyDock™ Triple Dock Pouch and (3) SkyHook™ Switch Connectors	JPSTLPKT3	**39CE48**
SkyHook™ Holder for Hammer or Ratchet and SkyHook™ Switch Connector	JPSHS	**24AL37**
SkyHook™ Tape Measure Pouch with SkyHook™ Switch Connector	JPSTAPE	**24AL41**
SkyDock™ Dual Dock Bolt Bag and (2) SkyHook™ Switch Connectors	JPSBOLT	**24AL44**
8-Pocket Saddle w/integrated SkyDocks™ and (8) SkyHook™ Switch Connectors	JPSSDLSM	**39CE46**
SkyDock™ 30" 6-Dock Apron and (6) SkyHook™ Switch Connectors	JPSAPRON30	**39CE43**



No. 24AL39

No. 40JD07

Tethering Kits and Web Tethers PROTO®

4- and 5-Piece kits include recommended tether attachments for tape measure, lineman's pliers, hammer, and level; heat shrink loop; and sealing tape. Web D-Ring Kit includes 2 web D-rings and sealing tape.

Description	Mfr. Model	Item No.
Tethering Kits		
4-Piece Tethering Kit w/Key Ring and Web D-Ring	JPSSCAFF4KIT	**31CL46**
5-Piece Tethering Kit w/ (2) Key Rings and (2) Web D-Rings	JPSSCAFF5KIT	**24AL39**
Web-D-Ring and Tape Kit	JDRSMPLKIT	**40JD07**
Heat Gun Installation	JP2RGRGUN	**40JD01**
Web Tethers		
D-Ring Web Tether, 2½" L	JDRSMOR	**31CL36**
HD D-Ring Web Tether, 3½" L	JDRHDOR	**31CL37**
Tether Rings		
0.4" Dia.	JSR04	**40JC98**
0.6" Dia.	JSR06	**40JD02**
1" Dia.	JSR1	**40JD27**
1.25" Dia.	JSR125	**40JD21**
1.5" Dia.	JSR15	**40JD09**
2" Dia.	JSR2	**40JD24**



No. 24AK03

PROTO®

Tethered Pipe and Striking Wrenches

Pipe
- Aluminum with steel jaw
- Lanyard ordered separately

Striking
- Black oxide finish
- Fitted with heat shrink tether loop

Jaw Cap.	Overall Length	Item No.
Pipe Wrenches		
1½"	10"	**24AK36**
2"	12"	**24AK37**
2"	14"	**24AK38**
4"	24"	**24AK39**

Size	Overall Length	Offset	Item No.
Striking Wrenches - 12-Pt. SAE			
1 1/16"	8½"	15/16"	**24AK03**
1 1/8"	11"	15/16"	**24AK04**
1 3/16"	10 3/4"	13/16"	**24AK05**
1 1/4"	10 3/4"	13/16"	**24AK06**
1 5/16"	11½"	13/16"	**24AK07**
1 3/8"	12"	1½"	**24AK08**
1 7/16"	12"	1½"	**24AK09**
1½"	12"	1½"	**24AK10**
1 9/16"	12 1/4"	1 7/16"	**24AK11**
1 5/8"	12 1/4"	1½"	**24AK12**
1 11/16"	13 7/16"	1½"	**24AK13**
1¾"	13 7/16"	1 9/16"	**24AK14**
1 13/16"	13 7/16"	1 9/16"	**24AK15**
1 7/8"	13 7/16"	1 21/32"	**24AK16**
1 15/16"	13 7/16"	1 7/8"	**24AK17**
2"	13 7/16"	1 21/32"	**24AK18**
2 1/16"	13½"	2"	**24AK19**
2 1/8"	13½"	2"	**24AK20**
2 3/16"	13½"	2"	**24AK21**
2¼"	13½"	2"	**24AK22**
2 5/16"	13½"	2"	**24AK23**
2 3/8"	13½"	2"	**24AK24**
Striking Wrenches - 12-Pt. Metric			
32mm	10 3/4"	1 3/16"	**24AK25**
36mm	12 1/64"	1½"	**24AK26**
41mm	12 1/4"	1½"	**24AK27**
46mm	13 27/64"	1 37/64"	**24AK28**
50mm	13 27/64"	1 21/32"	**24AK29**
55mm	13½"	2 1/64"	**24AK30**
60mm	13½"	2 1/64"	**24AK31**
65mm	13½"	2¼"	**24AK32**
70mm	13½"	2¼"	**24AK33**
75mm	15 63/64"	2 41/64"	**24AK34**
80mm	15 63/64"	2 41/64"	**24AK35**



Tool Collar and Loop No. 24AL47



Heat Shrink Loop No. 24AL55

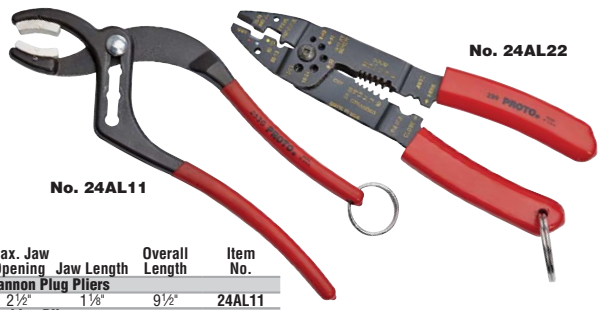
PROTO®

Tool Collars and Heat Shrink Loops

Tool collars and heat shrink loops are weight and size rated for best fit on a wide range of tool sizes. Existing tools can be retrofitted with the same Proto Industrial Tether Attachments used in the general product line.

Kit No. 40JD18 includes an assortment of 8 sizes of Tool Collars and Loops. Kit No. 40JD25 includes an assortment of 8 sizes of Heat Shrink Loops.

Fits Shaft Dia.	Item No.
Tool Collar and Loop	
0.035" to 0.094"	**24AL47**
0.094" to 0.156"	**24AL48**
0.156" to 0.25"	**24AL49**
0.219" to 0.313"	**24AL50**
0.313" to 0.438"	**24AL51**
0.400" to 0.54"	**24AL52**
0.54" to 0.79"	**24AL53**
0.79" to 1.0"	**24AL54**
Heat Shrink Loops	
0.25" to 0.50"	**24AL58**
0.36" to 0.75"	**24AL59**
0.55" to 1.25"	**24AL55**
0.75" to 1.75"	**24AL57**
1.5" to 2.5"	**24AL56**
1.50" to 2.50"	**24AL60**
¾" to 1¾"	**24AL61**
2¼" to 3½"	**40JD32**
Tool Collar and Loop Kit	
0.035" to 1"	**40JD18**
Heat Shrink Loop Kit	
0.750" to 4"	**40JD25**



Max. Jaw Opening	Jaw Length	Overall Length	Item No.
Cannon Plug Pliers			
2 1/2"	1 1/8"	9 1/2"	24AL11
Locking Pliers			
—	1 3/4"	9 1/4"	24AL21
Slip Joint Plier - Knurled Handle			
3 1/64"	2 11/64"	10"	31CL52
1/2"	1 27/32"	6 1/2"	31CL48
1 1/16"	2 3/32"	8"	31CL50
Slip Joint Plier - Rubber Handle			
3 1/64"	2 11/64"	10"	31CL51
1/2"	1 27/32"	6 1/2"	31CL26
1 1/16"	2 3/32"	8"	31CL49
Tongue and Groove Plier			
1 3/32"	1 43/64"	7"	31CL25
1 3/4"	2 3/32"	10"	16TH18
2 5/8"	2 45/64"	12"	16TW24
4 7/32"	3"	16"	16TW23

PROTO®

Tethered Pliers

- Integrated tether attachment point in handle

Jaw Type	Overall Length	Item No.
Wire Twister Pliers		
Serrated	8 3/4"	24AL23
Wire Stripper/Crimper		
Box Style Crimp	8 1/2"	24AL22



Tethered Wrenches

PROTO®

- Fitted with heat shrink tether loop

Size	Overall Length	Item No.
Combination Wrenches - 12-Pt. SAE		
5/16"	5 3/8"	24AJ71
3/8"	6"	24AJ72
7/16"	7"	24AJ73
1/2"	8"	24AJ74
9/16"	8 7/8"	24AJ75
5/8"	9 1/2"	24AJ76
11/16"	10 1/4"	24AJ77
3/4"	11"	24AJ78
13/16"	11 7/8"	24AJ79
7/8"	12 1/2"	24AJ80
15/16"	13 1/4"	24AJ81
1"	14"	24AJ82
1 1/16"	15 1/4"	24AJ83
1 1/8"	15 7/8"	24AJ84
1 1/4"	16 7/8"	24AJ85
Combination Wrenches - 12-Pt. Metric		
7mm	5 9/32"	24AJ87
8mm	5 13/32"	24AJ88
10mm	5 29/32"	24AJ89
12mm	7 45/64"	24AJ90
14mm	8 13/16"	24AJ91

Size	Overall Length	Item No.
16mm	9 35/64"	24AJ92
18mm	10 11/16"	24AJ93
20mm	11 27/64"	24AJ94
22mm	12 11/32"	24AJ95
24mm	13 5/16"	24AJ96
26mm	14 41/64"	24AJ97
28mm	15 35/64"	24AJ98
29mm	15 59/64"	24AJ99
30mm	15 59/64"	24AK01
32mm	16 59/64"	24AK02
Flare Nut Wrenches - 6-Pt. SAE		
3/8 x 7/16"	6 1/4"	34GP67
1/2 x 9/16"	7 1/2"	34GP68
5/8 x 11/16"	8 3/4"	34GP69
Double Box End Wrenches - 12-Pt. SAE		
5/16" x 3/8"	6 15/16"	34GP75
7/16" x 1/2"	8 1/16"	34GP76
9/16" x 5/8"	9 7/16"	34GP77
11/16" x 3/4"	11 1/8"	34GP78
13/16" x 7/8"	13 1/8"	34GP79
15/16" x 1"	15 1/8"	34GP80
1 1/16" x 1 1/8"	17 1/2"	34GP81

No. of Pieces	Wrenches Included	Item No.
12-Pt. Combination Wrench Sets		
15	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4"	24AJ70
15	7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32mm	24AJ86
6-Pt. Flare Nut Wrench Sets		
3	3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16"	40JC85
5	7mm x 8mm, 9mm x 11mm, 10mm x 12mm, 13mm x 14mm, 15m x 17mm	40JD05
12-Pt. Wrench Sets		
7	5/16" x 3/8", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1 1/16" x 1 1/8"	40JC83
11	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19, 21 x 24, 22 x 24, 27 x 30, 30 x 32mm	40JD22



Tethered Torque Wrenches

PROTO®

- Calibrated to ±3% clockwise and ±6% counterclockwise at 20 to 100% full scale
- Locking pin detent retains socket during use
- Fitted with heat shrink tether loop

Drive Size	Primary Scale Range	Primary Scale Increments	Overall Length	Item No.
3/8"	20 to 100 ft.-lb.	0.5 ft.-lb.	17"	24AJ66
3/8"	16 to 80 Nm	0.5 Nm	15 1/2"	24AJ63
1/2"	50 to 250 ft.-lb.	1 ft.-lb.	28 1/8"	24AJ65
1/2"	40 to 200 Nm	1 Nm	21 1/2"	24AJ64



PROTO®

Tool Lanyards, Wrist Straps and Belts

Description	Max. Working Load	Mfr. Model	Item No.
Hard Hat Lanyards			
Lanyard w/Carabiner	—	JLANHATRD	24AL31
Kit w/ (2) Hard Hat Lanyards and (2) Glove Holders	—	JPPESMPLKIT	40JD04
Tool Lanyards			
Single Triple Lock Carabiner	15 lb.	JLAN15LB3LK	31CL17
Dual Triple Lock Carabiner	20 lb.	JLAN20LBD3LK	31CL18
Triple Lock Swivel Carabiner	40 lb.	JLAN40LBD3LK	31CL19
Dual Triple Lock Swivel Carabiners	40 lb.	JLAN40LBD3LKSW	31CL20
Single Non-Locking SS Carabiner	15 lb.	JLAN15LBSSCAR	24AL29
Dual Non-Locking SS Carabiner	15 lb.	JLAN15LBDSS	24AL64
	25 lb.	JLAN25LBDSS	24AL66
Single Screw Gate Carabiner	15 lb.	JLAN15LBSSRP	24AL63
Lanyard Kit: Includes 7 Assorted Sizes of Lanyards	15 lb., 20 lb., 40 lb.	JLANSMPLKIT	40JD11
Wrist Strap Lanyard Kits			
D-Ring Wrist Strap	—	JWS-DR	38HW36
Wrist Strap Lanyard	—	JLANWR6LB	38HW33
Kit w/ D-Ring Wrist Strap and Lanyard	—	JDR1	38HW38
Kit w/ (2) D-Ring Wrist Straps and (2) Lanyards	—	JDR2	38HW39
Kit w/ (4) D-Ring Wrist Straps and (4) Lanyards	—	JDR4	38HW30
D-Ring Pouch Set w/Pocket, Lanyard and D-Ring Wrist Strap System	—	JRETSET1	38HW31
D-Ring Pouch Set w/(2) Pockets, Lanyard and D-Ring Wrist Strap System	—	JRETSET2	38HW41
Comfort Belt and Belt Sets			
Comfort Belt - Med. Fits Waist 28 to 40"	—	JBELTCM-M	38HW43
Comfort Belt - Lg. Fits Waist 40 to 54"	—	JBELTCM-L	38HW44
Belt Adapter w/(2) Carabiners	—	JBELTAD2	38HW40
Comfort Belt - Med. w/ (2) Belt Adapters and D-Ring Wrist Strap System	—	JBELTSET-M	38HW35
Comfort Belt - Lg. w/ (2) Belt Adapters and D-Ring Wrist Strap System	—	JBELTSET-L	38HW37
D-Ring Pouch w/Pocket and Lanyard	—	JRETPOU1	38HW29
D-Ring Pouch w/(2) Pockets and Lanyard	—	JRETPOU2	38HW34
Tool Lift Bucket			
Bucket, 13" Dia. x 15" Depth, 100 lbs. Max. Lift Wt.	—	JBUCK300LBZP	38HW32
Bucket w/D-Ring Wrist Strap System	—	JBUCKSET	38HW42
Accessories			
4-Pocket Retractable Tool Pouch	—	J072510ATA	24AL45
Tape Measure Sleeve	—	JTAPESLV	31CL47
Glove Holder	—	JPPEGLV	24AL33
Glove Holder/Pouch	—	JPPEGLVPOU	24AL32
Sealing Tape	—	JMOL36RFOR	24AL46



Tethered Ratcheting Wrenches

PROTO®

- Fitted with heat shrink tether loop

Head Size	Overall Length	Item No.
Wrenches - 12-Pt. SAE		
1/4" x #8	5"	34GP26
9/32" x #9	5 1/2"	34GP17
5/16" x #10	5 1/2"	34GP18
5/16" x #10	5 1/2"	34GP27
3/8" x #12	6 1/4"	34GP19
3/8" x #12	6 1/4"	34GP28
7/16" x #14	6 1/2"	34GP20
7/16" x #14	6 1/2"	34GP29
1/2" x #16	7"	34GP21
1/2" x #16	7"	34GP30

Head Size	Overall Length	Item No.
9/16" x #18	7 1/2"	34GP22
9/16" x #18	7 1/2"	34GP31
5/8" x #20	8 3/16"	34GP23
5/8" x #20	8 3/16"	34GP32
11/16" x #22	8 7/8"	34GP24
11/16" x #22	8 7/8"	34GP33
3/4" x #24	9 3/4"	34GP34
3/4" x #24	9 3/4"	34GP25
Box End Wrenches - 6-Pt. SAE		
1/4 x 5/16"	4 1/4"	34GP45
3/8 x 7/16"	5 7/16"	34GP46

Head Size	Overall Length	Item No.
1/2" x 9/16"	6 3/4"	34GP47
Box End Wrenches - 12-Pt. SAE		
1/4 x 5/16"	4 1/2"	34GP62
3/8 x 7/16"	5 1/2"	34GP63
1/2" x 9/16"	6 7/8"	34GP64
5/8 x 11/16"	8"	34GP48
5/8 x 11/16"	8 1/8"	34GP65
3/4 x 7/8"	9 1/4"	34GP66

No. of Pieces	Wrenches Included	Item No.
Combination Spline Wrench Sets		
9	9/32", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	40JD03
13	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	40JD13
Combination Spline Wrench Sets - Reversing		
9	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	40JC81
10	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	40JC80
12-Pt. Wrench Sets		
5	1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8"	40JC82
6, 12-Pt. Wrench Sets		
5	7mm x 8mm, 9mm x 10mm, 11mm x 12mm, 13mm x 14mm, 15mm x 17mm	40JC86
6, 12-Pt. Wrench Sets - 25° Offset		
5	1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8"	40JD34
7	7mm x 8mm, 9mm x 10mm, 11mm x 13mm, 12mm x 14mm, 15mm x 17mm, 16mm x 18mm, 19mm x 21mm	40JD31

PROTO

Tethered Ratchets and Sockets

Sockets attach securely to ratchets using the Positive Control Pin Detent System that requires a separate tool to attach or remove the socket. Sockets cannot be removed without specific intent. Pin detent will engage correctly regardless of the direction the socket is placed on the square drive.



No. 24AJ67



No. 24AH07

Drive Size	Overall Length	Item No.
Reversing Ratchets		
3/8"	8 1/2"	24AJ69
3/8"	11"	31CL45
1/2"	10 1/2"	24AJ67
1/2"	15"	24AJ68

Size	Item No.
Sockets, 12-Point Standard - SAE	
3/8" Drive Size	
1/4"	24AH48
5/16"	24AH49
3/8"	24AH50
7/16"	24AH51
1/2"	24AH52
9/16"	24AH53
5/8"	24AH54
11/16"	24AH55
3/4"	24AH56
13/16"	24AH57
7/8"	24AH58
15/16"	24AH59
1"	24AH60
1/2" Drive Size	
3/8"	24AJ02
7/16"	24AJ03
1/2"	24AJ04
9/16"	24AJ05
5/8"	24AJ06
11/16"	24AJ07
3/4"	24AJ08
13/16"	24AJ09
7/8"	24AJ10
15/16"	24AJ11
1"	24AJ12

Size	Item No.
1 1/16"	24AJ13
1 1/8"	24AJ14
1 3/16"	24AJ15
1 1/4"	24AJ16
1 5/16"	24AJ17
1 3/8"	24AJ18
1 7/16"	24AJ19
1 1/2"	24AJ20
Sockets, 12-Point Deep - SAE	
3/8" Drive Size	
1/4"	24AH62
5/16"	24AH63
1/4"	24AH64
3/32"	24AH65
1/2"	24AH66
9/16"	24AH67
5/8"	24AH68
11/16"	24AH69
3/4"	24AH70
13/16"	24AH71
7/8"	24AH72
15/16"	24AH73
1"	24AH74
1/2" Drive Size	
3/8"	24AJ22
7/16"	24AJ23
1/2"	24AJ24
9/16"	24AJ25

Size	Item No.
5/8"	24AJ26
1 1/16"	24AJ27
3/4"	24AJ28
13/16"	24AJ29
7/8"	24AJ30
15/16"	24AJ31
1"	24AJ32
1 1/16"	24AJ33
1 1/8"	24AJ34
1 3/16"	24AJ35
1 1/4"	24AJ36
1 5/16"	24AJ37
1 3/8"	24AJ38
1 7/16"	24AJ39
1 1/2"	24AJ40
Sockets, 12-Point Standard - Metric	
3/8" Drive Size	
6mm	24AH07
7mm	24AH08
8mm	24AH09
9mm	24AH10
10mm	24AH11
11mm	24AH12
12mm	24AH13
13mm	24AH14
14mm	24AH15
15mm	24AH16

Size	Item No.
16mm	24AH17
17mm	24AH18
18mm	24AH19
19mm	24AH20
20mm	24AH21
21mm	24AH22
22mm	24AH23
23mm	24AH24
24mm	24AH25
25mm	24AH26
26mm	24AH27
1/2" Drive Size	
10mm	24AH76
11mm	24AH77
12mm	24AH78
13mm	24AH79
14mm	24AH80
15mm	24AH81
16mm	24AH82
17mm	24AH83
18mm	24AH84
19mm	24AH85
20mm	24AH86
21mm	24AH87
22mm	24AH88
23mm	24AH89
24mm	24AH90
25mm	24AH91

Size	Item No.
26mm	24AH92
27mm	24AH93
28mm	24AH94
29mm	24AH95
30mm	24AH96
31mm	24AH97
32mm	24AH98
36mm	24AH99
Sockets, 12-Point Deep - Metric	
3/8" Drive Size	
6mm	24AH29
7mm	24AH30
8mm	24AH31
10mm	24AH33
11mm	24AH34
12mm	24AH35
13mm	24AH36
14mm	24AH37
15mm	24AH38
16mm	24AH39
17mm	24AH40
18mm	24AH41
19mm	24AH42
20mm	24AH43
21mm	24AH44
22mm	24AH45

Size	Item No.
23mm	24AH46
Sockets, Hex Bit - SAE	
1/4"	24AJ42
1/8"	24AJ43
3/16"	24AJ44
3/8"	24AJ45
5/16"	24AJ46
3/32"	24AJ47
7/32"	24AJ48
1/2" Drive Size	
1/2"	24AJ49
5/8"	24AJ50
9/16"	24AJ51
Sockets, Hex Bit - Metric	
3/8" Drive Size	
10mm	24AJ53
4mm	24AJ54
5mm	24AJ55
6mm	24AJ56
7mm	24AJ57
8mm	24AJ58
9mm	24AJ59
1/2" Drive Size	
12mm	24AJ60
14mm	24AJ61
17mm	24AJ62

Drive Size	No. of Pieces	Sockets Included	Item No.
Socket Sets - SAE			
12 Pt. Std.			
3/8"	10	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	1AC77
	13	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	24AH47
1/2"	19	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2"	24AJ01
12 Pt. Deep			
3/8"	13	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	24AH61
1/2"	19	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8", 1 7/16", 1 1/2"	24AJ21
Std. Hex Bit			
3/8", 1/2"	10	3/8" Drive: 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8". 1/2" Drive: 1/2", 9/16", 5/8"	24AJ41
Socket Sets - Metric			
12 Pt. Std.			
3/8"	21	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	24AH06
1/2"	24	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 36mm	24AH75
12 Pt. Deep			
3/8"	18	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23mm	24AH28
Std. Hex Bit			
3/8", 1/2"	10	3/8" Drive: 4, 5, 6, 7, 8, 9, 10mm. 1/2" Drive: 12, 14, 17mm	24AJ52



No. 52NN40

Tool Lanyards

- Third party certified with 2:1 safety factor
- Tools not included

Squids® lanyards are designed to help reduce the risk of dropped tools. With features like hi tensile strength webbing and reinforced stitching, they are made to hold up to harsh environmental conditions.

Description	Max. Working Load	L	Mfr. Model	Orange/ Gray Item No.	Lime Item No.	Black Item No.	HV Lime Item No.
FX Series Lanyards							
Tool Lanyard Dual Carabiner	10 lb.	38" to 60"	3110F(x)	**52NN41**	—	—	—
Tool Lanyard Dual Locking Carabiner	15 lb.	38" to 60"	3118F(x)	**52NN43**	—	—	—
Tool Lanyard Single Carabiner	10 lb.	38" to 60"	3100F(x)	**52NN40**	—	—	—
Tool Lanyard Single Locking Carabiner	15 lb.	38" to 60"	3108F(x)	**52NN42**	—	—	—
Lanyards w/Loops							
Extended w/ Loop and Stainless Steel Carabiner 15 Lb Load Limit	15 lb.	42 to 54"	3101EXT	—	**23MU31**	—	—
With Loop and Stainless Steel Carabiner 15 Lb Load Limit	15 lb.	35 to 42"	3101	—	**23MU30**	—	—
Retractable Lanyards							
Retractable Lanyard w/ Carabiner 1 Lb Load Limit	1 lb.	48"	3000	—	—	**20YF54**	—
Retractable w/ Loop	2 lb.	48"	3001	—	—	**20YF55**	—
Shock Absorbing Tool Lanyards							
Dual Carabiner, Extended	10 lb.	42 to 54"	3110EXT	—	—	**5NPP5**	**5NPP6**
Standard Series Lanyards							
Dual Carabiner	10 lb.	35 to 42"	3110	—	—	**5NPP3**	**5NPP4**
Single Carabiner	10 lb.	35 to 42"	3100	—	—	**5NPN9**	**5NPP0**
Single Carabiner, Extended	10 lb.	42 to 54"	3100EXT	—	—	**5NPP1**	**5NPP2**
Tool Lanyards							
Coil Hard Hat Lanyard	2 lb.	18"	3157	—	—	**45NJ44**	**45NJ45**
Coil Hard Hat Lanyard	2 lb.	13"	3158	—	—	**45NJ46**	**45NJ47**
Grabber Anchor, Magnet Mount, Use with Ferromagnetic Surfaces	—	—	3415	—	—	**46AN64**	—
Grabber Anchor, Suction Mount, Use with Smooth Flat Surfaces	—	—	3410	—	—	**46AN63**	—
Wrist Lanyards							
Retractable Lanyard w/ Carabiner 3 Lb Load Limit	3 lb.	8"	3114	—	—	**45NJ42**	—
Wrist, L/XL	2 lb.	7 1/2"	3115	—	—	**5NPP8**	—
Wrist, S/M	2 lb.	7 1/2"	3115	—	—	**5NPP7**	—
Wrist Tool Lanyard, Buckle, 8" L	3 lb.	8"	3116	—	—	**45NJ43**	—



No. 52NN44

No. 52NN47

Squids® Tool Tails™ and Traps

Max. Working Load	L	Color	Item No.	Pkg. Qty.
Web Tool Tails				
2 lb	3 1/2 in	Black	**32TN14**	6
2 lb	4 1/2 in	Orange	**32TN15**	6
2 lb	5 1/2 in	Black	**32TN16**	6
Elastic Loop Tool Tails				
10 lb	11 in	HV Lime	**32TN24**	3
15 lb	11 in	HV Lime	**32TN25**	3
15 lb	18 in	HV Lime	**32TN26**	3
Self Adhering Tape Tool Wrap				
8 lb	145 5/8 in	White	**46AN62**	1
Power Tool Trap				
6 lb	—	Black	**45NJ39**	1
6 lb	—	Black	**45NJ40**	1
Tape Measure Trap				
2 lb	—	Orange	**45NJ41**	1

Fits Shaft Dia.	Item No.	Pkg. Qty.
Cold Shrink Tool Traps		
3/4 to 1 1/2"	**32TN19**	1
1 1/4 to 1 3/4"	**32TN20**	1
1 3/4 tp 2 1/2"	**32TN21**	1

Description	Max. Working Load	Mfr. Model	Item No.	Pkg. Qty.
Squids® Tool Tethering Kits				
Tape Measure Tethering Kit - 2lb	2 lb.	3190	**52NN44**	1
Power Tool Tethering Kit - 6lb	15 lb.	3191	**52NN45**	1
Wrist Lanyard Tethering Kit - 3lb	2 lb.	3192	**52NN46**	1
Tool Tethering Kit - 10lb	10 lb.	3182	**52NN47**	1
Tool Tethering Kit - 2lb	2 lb.	3180	**52NN48**	1
Tool Tethering Kit - 5lb	5 lb.	3181	**52NN49**	1

AMPCO® Nonsparking, Nonmagnetic, Corrosion Resistant Safety Tools Information

OSHA's new Hazard Communication Standard now requires nonsparking tools with flammable liquids. For our full offering of nonsparking hand tools go to Grainger.com® and search for "nonsparking tools."

Note: Static sparks can ignite flammable vapors, liquids, dusts and residues. The alloys used to make Ampco Safety Tools are highly conductive and must be grounded if there is concern for static-electric charge. AMPCO® and other copper based tools should not be used in direct contact with acetylene and some explosives such as amatol, azide salts, lead azide and DBX.

NONSPARKING

OSHA, NFPA, MSHA and other Standards Developing Organizations require and recommend the use of nonsparking tools where flammable vapors, liquids, dusts or residues are present.

NONMAGNETIC

Prevent accidents and protect property in military, medical, and electronics manufacturing locations. Excellent for use in highly sensitive magnetic equipment and in clean room environments. Meet ASTM F2503 and ASTM A342 standards.

CORROSION RESISTANT

Chemicals, acids and salt water over time diminish the effectiveness of steel tools. Ampco Safety Tools provide durability, longevity and personnel safety in severe corrosive environments.

Nonsparking Tool Kits

Kits contain nonsparking tools that should be used wherever there may be flammable or combustible dusts, liquids, powders, or residue present. It is recommended that nonsparking hand tools are kept in specially designed kits and inventoried routinely. This process helps to ensure that steel tools are not used accidentally by first responders.



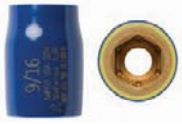
No. 4RU47

No. of Pieces	Includes	Item No.
Screwdriver Kit		
6	Keystone Slotted 9/32 x 3", 5/16 x 6", 3/8 x 8", Phillips #1 x 3", #2 x 4", #3 x 6", and Pouch	5MM02
Combination Wrench Sets		
7	3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8"	1TDZ6
7	Metric: 8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm	4RNZ7
L-Shaped Hex Key Sets		
10	Metric: 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10mm	4RNX9
10	1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, and 3/8"	5MM03
Tool Kits		
4	5/16" Standard Screwdriver, 6 1/2" Combination Pliers, 8" Adjustable End Wrench, 9" Crate Opener	8AKU0
6	6 1/2" Combination, 10" Tongue and Groove Pliers, 9" Crate Opener, Slotted 5/16", Phillips #2, 8" Adjustable Wrench	4CZ75
11	8" Combination, 10" Tongue and Groove Pliers, 10" Shoe Handle Brush, Blade Knife 3 1/8", Putty Knife 1 1/4", Slotted 5/16", Phillips #2, Claw Hammer 16 oz., 6", 10" Adjustable, 10" Pipe Wrench	4CZ76
16	5/16 x 3/8", 7/16 x 1/2", 9/16 x 5/8" and 3/4 x 7/8" Double End Box Wrenches, #2 Phillips Screwdriver, Standard Screwdriver, 10" Adjustable Wrench, 6 1/2 and 8" Combination Pliers, Groove Joint Pliers, Common Knife, Stiff Putty Knife, Claw Hammer, 14" Adjustable Pipe Wrench, Shoe Handle Brush, Deck Scraper	9G330
17	7" Long Nose with Cutter, 8" Combination, 12" Tongue and Groove Pliers, 10" Shoe Handle Brush, Blade Knife 5 3/4", Putty Knife 1 1/4", Scraper 3", Slotted 5/16", Phillips #3, Claw Hammer w/Fiberglass Handle 16 oz.	4RU47
17	8" Slip Joint, 7" Diagonal Cutting, 10" Groove Joint, 8 1/2" Linemans Pliers, Toothbrush Style Scratch Brush with Wood Handle, Slotted Screwdriver 5/16" X 6", Phillips Screwdriver 2" X 4", 8", 10" Adjustable, 12 pt. Box End 7/16", 1/2", 9/16" Wrench	24Y891
Socket Sets, 6-Pt. Standard		
9	1/2", 11/16", 7/8", 1 1/16", 1 1/4"; 1/2" Drive	4DC12
11	36, 38, 41, 46, 50, 55, 60mm; 3/4" Drive	4RPK1
15	1 3/16", 1 3/8", 1 7/16", 1 1/2", 1 9/16", 1 5/8", 1 11/16", 1 3/4", 1 13/16", 1 7/8", 2"; 3/4" Drive	4RPJ9
21	5/16", 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"; 1/2" Drive	1TEB6
26	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32mm; 1/2" Drive	1TEC6

Battery Tools


No. 24Y877
Diagonal Cutting Pliers


No. 24Y884
Ratchet


No. 24Y881
3/8" Drive Socket

- Meets NFPA 70E standard

Insulated, nonsparking hand tools protect against hazards of mechanical sparks, friction and impact sparks. Charging batteries produce hydrogen gas which is extremely flammable and is not easily detected by humans. These tools are exceptional for battery manufacturers, electrical safety consultants, and maintenance personnel who maintain battery systems, as well as those requiring uninterrupted power systems (UPS) and battery rooms for mission critical operations including government, hospitals, hazardous industrial processing and controls, data centers, computer rooms, and network operations.

Description	Item No.
Pliers	
7 1/4" Diagonal Cutting Pliers	24Y877
8 3/16" Slip Joint Pliers	24Y875
8 3/4" Linemans Pliers	24Y876
10 1/4 in Tongue and Groove Pliers	24Y878
Screwdrivers	
No. 2 Pt. Phillips	24Y879
5/16" Slotted	24Y880
Adjustable Wrenches	
4 inL	24Y885
10 inL	24Y886

Description	Item No.
Box End Wrenches	
5 1/2 inL	24Y888
6 inL	24Y889
6 1/4 inL	24Y890
Hand Ratchet	
3/8 in Drive, 7 3/4 inL	24Y884
3/8 in Drive, 6-Pt. Insulated Sockets, Standard	
7/16", 1 1/2 inL	24Y881
1/2", 1 1/2 inL	24Y882
9/16", 1 1/2 inL	24Y883
6 inL Insulated Socket Extensions	
For use with 3/8 in Drive Sockets	24Y887


No. 4DC28
Flange Wedge


No. 49UR67
Striking Wrench


No. 4DC29
Adjustable Hook Spanner Wrench


No. 2ZB23
Barrel Hooks

Flammable Liquid Tools

Liquids are the most common hazardous chemicals found in the workplace. Use only nonsparking tools with flammable liquids such as solvents, petrochemicals, and hazardous waste.

Description	Item No.
Flange Wedges	
3 1/4"L x 1/2"W x 1/4"H	4RNU2
3 1/2"L x 2"W x 3/8"H	4RNU6
3 3/4"L x 3/4"W x 1/2"H	4DC05
6"L x 1 1/2"W x 3/4"H	2VJ19
7"L x 1 1/4"W x 1/2"H	4RNU3
7"L x 2"W x 3/8"H	4RNU5
7"L x 2"W x 3/4"H	4DC16
7 3/4"L x 1 1/2"W x 1 5/8"H	2VJ20
6"L x 1"W x 1/2"H	4DC13
8"L x 1 1/2"W x 1"H	4DC28
8"L x 2"W x 3/4"H	4RNU4
8"L x 2"W x 2"H	46C043
8 1/2"L x 2"W x 1 1/4"H	4DC04
Striking Wrenches, 12 Pt., SAE	
7/8" L, 15/16" Nominal Size	49UR68
7/8" L, 1 1/4" Nominal Size	49UR67
7/8" L, 1 7/16" Nominal Size	49UR70
9" L, 1 1/2" Nominal Size	49UR71
9" L, 1 5/8" Nominal Size	49UR73
9" L, 1 -11/16" Nominal Size	49UR74
9" L, 1 13/16" Nominal Size	49UR76
10" L, 1 7/8" Nominal Size	49UR77
10" L, 2" Nominal Size	49UR78
10" L, 2 3/16" Nominal Size	49UR81
11 1/4" L, 2 9/16" Nominal Size	49UR87
11 1/4" L, 2 5/8" Nominal Size	49UR88
11 1/4" L, 2 7/8" Nominal Size	49UR84
13" L, 2 3/4" Nominal Size	49UR89
Adjustable Hook Spanner Wrenches	
4 1/2 to 6 3/8" dia. Cap.	4DC29
1 1/4 to 3" dia. Cap.	4RPA9
2 to 4 3/4" dia. Cap.	4RPC1
Chain Wrench	
20"L, For Pipes 1/8" to 1 1/2"	1TEB7
Valve Wheel Hooks	
13 3/4"L, 90° Head	46C053
15 3/4"L, 90° Head	46C067
Barrel Hooks	
Fixed, 1500 lb. Cap.	8DFC1
Adjustable, 1500 lb. Cap.	2ZB23

Find more information on Nonsparking, Nonmagnetic, and Corrosion-Resistant Safety Tools on page 861.
Find more Ampco Safety Tools and information on Nonsparking Tools at Grainger.com®; search for "Ampco".



Mallet
No. 2ZB28



Monkey Wrench
No. 1TEB5



Knot Wire Wheel
No. 1TEB8



Floor Scraper Blade
No. 4CZ98



Square Point Shovel
No. 2VJ17

AMPCO USA
WESTWARD

General Nonsparking Tools

Nonsparking tools are specifically designed to perform safely and exceptionally in most volatile environments.

Description	Brand	Item No.
Bars		
Crow/Wrecking Bar, 18"L	Ampco	**9RC50**
Crow/Wrecking Bar, 24"L	Ampco	**4DC14**
Crow/Wrecking Bar, 30"L	Ampco	**9MJJ1**
Crow/Wrecking Bar, 36"L	Ampco	**2VJ21**
Pinch Bar, 18"L	Ampco	**2ZB29**
Pinch Bar, 30"L	Ampco	**8AZX5**
Pinch Bar, 36"L	Ampco	**2VJ12**
Pry Bar, 60"L	Ampco	**2VJ13**
Pry Bar, 68"L	Ampco	**8RMT7**
Hand Chisels		
¼", 5¼"L	Ampco	**4CZ60**
7/16", 5¾"L	Ampco	**4RPP5**
9/16", 6½"L	Ampco	**4CZ59**
9/16", 12"L	Ampco	**46C022**
11/16", 9⅛"L	Ampco	**46C058**
¾", 6"L	Ampco	**46C013**
¾", 9"L	Ampco	**46C012**
¾", 14½"L	Ampco	**46C047**
13/16", 8"L	Ampco	**4CZ61**
⅞", 9"L	Ampco	**46C023**
⅞", 12"L	Ampco	**4RPP6**
1 1/16", 9¼"L	Ampco	**46C011**
Pneumatic Chisels		
Hex Shank		
Bull Point Tip, 21"L	Ampco	**4RPP7**
2" Scaling, 7¾"L	Ampco	**4RPR2**
3" Wide Tip, 18"L	Ampco	**4RPP8**
Round Shank		
1¼" with Retaining Collar, 7"L	Ampco	**46C008**
1½" Scaling, 7¾"L	Ampco	**4RPP9**
2½" Scaling, 9"L	Ampco	**4RPR1**
Drift Pins		
Barrel		
3/16, 11/16" Tip, 8"L, 11/16"	Ampco	**4RPN2**
5/16" Tip, 8"L, 13/16"	Ampco	**4RPN3**
7/16" Tip, 8"L, 15/16"	Ampco	**4RPN4**
9/16" Tip, 8"L, 1 1/16"	Ampco	**46C019**
11/16" Tip, 8"L, 13/16"	Ampco	**4RPN5**
Straight		
¼" Tip, 6"L, ½"	Ampco	**4RPL6**
9/32", Tip, 6"L, 11/16"	Ampco	**4RPL7**
5/16" Tip, 8"L, 13/16"	Ampco	**4RPL8**
7/16" Tip, 10"L, 15/16"	Ampco	**4RPL9**
½" Tip, 10"L, 1⅛"	Ampco	**4RPN1**
Punches		
Hand, 7¾"L, 1"	Ampco	**46C073**
Center, 4"L, 5/16"	Ampco	**4RPL2**
Center, 4½"L, 3/8"	Ampco	**4RPL3**
Center, 5"L, ½"	Ampco	**4RPL4**
Center, 6"L, 5/8"	Ampco	**4RPL5**
Marlin Spike, 16"L	Ampco	**46C094**
Double End Scriber, 6"L, Straight, 90° Point, ⅛"-dia. Handle	Ampco	**46C042**
Round Pin Punches		
3/8" Hex, ⅛" Tip	Ampco	**4RPK6**
9/16" Hex, ¼" Tip	Ampco	**4RPK7**
9/16" Hex, 3/8" Tip	Ampco	**4RPK8**
11/16" Hex, ½" Tip	Ampco	**4RPK9**
13/16" Hex, 5/8" Tip	Ampco	**4RPL1**
14" Backing Out Hammer, ½" Dia.	Ampco	**21XV13**
14" Backing Out Hammer, 3/8" Dia.	Ampco	**21XV14**
14" Backing Out Hammer, 5/16" Dia.	Ampco	**21XV15**
Hammers		
Backing Out, 2 lb. Head, 14"L	Ampco	**46C054**
Cross Peen, 1½ lb. Head, 14"L	Ampco	**46C025**
Cross Peen, 2½ lb. Head, 15"L	Ampco	**46C018**
Cross Peen, 3½ lb. Head, 15"L	Ampco	**46C049**
Scaling, 1 lb. Head, 14"L	Ampco	**4RPK4**
Scaling, 1½ lb. Head, 14"L	Ampco	**4RPK5**
Scaling, 3 lb. Head, 15"L	Ampco	**8PHY2**
Bricklayers, 1½ lb. Head	Ampco	**4RPK3**
Double Face Sledge, 3 lb. Head	Ampco	**2VJ10**
Double Face Sledge, 6 lb. Head	Ampco	**3NY51**
Double Face Sledge, 8 lb. Head	Ampco	**2VJ11**
Double Face Sledge, 10 lb. Head	Ampco	**3NY52**
Double Face Sledge, 16 lb. Head	Ampco	**2ZB25**
Double Face Sledge, 18 lb. Head	Ampco	**2ZB26**
Strikeforce™ Sledge, 22 lb. Head	Ampco	**49UG72**
Strikeforce™ Sledge, 12 lb. Head	Ampco	**49UG70**
Mallets		
2 lb. Head, 14"L	Ampco	**9NKV7**
4 lb. Head, 15"L	Ampco	**2ZB28**
6 lb. Head, 15"L	Ampco	**9AKP5**
½" Drive, 6-Pt. Sockets, Standard		
SAE		
5/16", 13/16"L	Ampco	**9PA51**
3/8", 13/16"L	Ampco	**1TEC7**
7/16", 13/16"L	Ampco	**8FF79**
½", 13/16"L	Ampco	**1TEC8**
9/16", 13/16"L	Ampco	**1TEC9**
19/32", 13/16"L	Ampco	**9GMR4**
5/8", 1 1/16"L	Ampco	**8PLN4**
11/16", 1 1/16"L	Ampco	**9UN99**
¾", 1 1/16"L	Ampco	**1TEF1**
25/32", 1 1/16"L	Ampco	**9CN64**
13/16", 1 1/16"L	Ampco	**8F881**
⅞", 1½"L	Ampco	**9MP86**
15/16", 1½"L	Ampco	**1TEF2**
1", 1½"L	Ampco	**1TEF3**
1 1/16", 1½"L	Ampco	**9JC18**
1⅛", 1⅝"L	Ampco	**1TEF4**
1¼", 1⅝"L	Ampco	**1TEF5**
Socket Extensions		
3/8" Drive Socket Extension, 6"L	Ampco	**46C072**
½" Drive Socket Extension, 10"L	Ampco	**46C017**
¾" Drive Socket Extension, 16"L	Ampco	**46C048**
11"L Sliding Bar for Use with No. 46C017	Ampco	**46C010**
18"L Sliding Bar for Use with No. 46C048	Ampco	**46C031**
Screwdrivers		
3/16", 5⅝"L	Ampco	**8DH14**
3/16", 9½"L	Ampco	**8DH15**
¼", 7⅜"L	Ampco	**9AKP6**
3/8", 17"L	Ampco	**8DH16**
Wrenches		
Socket		
½" Drive, Hinged Handle, 12"L	Ampco	**46C009**
¾" Drive, Hinged Handle, 18"L	Ampco	**46C027**
Monkey		
1½" Cap. 8"L	Ampco	**46C037**
1⅞" Cap. 10"L	Ampco	**46C101**
2¼" Cap. 12"L	Ampco	**46C059**
2 13/16" Cap. 15"L	Ampco	**1TEB4**
3" Cap. 18"L	Ampco	**46C107**
4⅛" Cap. 21"L	Ampco	**1TEB5**
Double Open End		
6 x 7mm, 3 15/16"L	Ampco	**46C102**
6 x 8mm, 4"L	Ampco	**21XW89**
7 x 8mm, 5"L	Ampco	**21XW93**
7 x 9mm, 5"L	Ampco	**21XW94**
8 x 9mm, 5"L	Ampco	**21XW95**
8 x 10mm, 5"L	Ampco	**46C103**
9 x 10mm, 5"L	Ampco	**21XW96**
9 x 11mm, 5"L	Ampco	**21XW97**
10 x 12mm, 5"L	Ampco	**4RPE3**
10 x 11mm, 5"L	Ampco	**21XW31**
10 x 13mm, 5¾"L	Ampco	**21XW32**
Ratchets		
3/8" Drive, 7¼"L	Ampco	**4RPY1**
½" Drive, 10"L	Ampco	**1TEF6**
¾" Drive, 18"L	Ampco	**4RPJ8**
24" Straight Pipe Wrench	Westward	**23X843**
Nut Drivers		
7mm Hex, 8 7/16"L	Ampco	**46C052**
¼" Hex, 6⅞"L	Ampco	**46C068**
5/16" Hex, 6⅞"L	Ampco	**46C015**
3/8" Hex, 7 1/16"L	Ampco	**46C044**
7/16" Hex, 7 7/16"L	Ampco	**46C062**
Wire Wheel and Cup Brushes		
Crimped Wire Cup		
5/8" - 11" Arbor Hole, 3" Dia., 12,500 RPM	Ampco	**4RPR8**
5/8" - 11" Arbor Hole, 4" Dia., 8000 RPM	Ampco	**4RPR9**
5/8" Arbor Hole, 6" Dia., 20,000 RPM	Ampco	**46C021**
Knot Wire Cup		
5/8" - 11" Arbor Hole, 3" Dia., 12,500 RPM	Ampco	**4RPR6**
5/8" - 11" Arbor Hole, 4" Dia., 7000 RPM	Ampco	**4RPR7**
5/8-11 Arbor Hole, 6" Dia., 6000 RPM	Ampco	**46C104**
Knot Wire End		
¼" Shank, 1" Dia., 20,000 RPM	Ampco	**46C041**
Knot Wire Wheel		
N/A Arbor Hole, 4" Dia., 20,000 RPM	Ampco	**1TEB8**
5/8"-11 Arbor Hole, 6" Dia., 20,000 RPM	Ampco	**1TEB9**
End Brush, 1" Dia	Ampco	**21XU95**
Cup Brush, 4" Dia	Ampco	**21XU93**
Cup Brush, 6" Dia	Ampco	**21XU94**
Scrapers		
Hand, 6¾"L x 6"W	Ampco	**4RPU3**
Hand, 7"L x 3"W	Ampco	**4RPT9**
Hand, 7"L x 4"W	Ampco	**4RPU1**
Hand, 7"L x 5"W	Ampco	**4RPU2**
Hand, 8½"L x 6"W	Ampco	**4RPT8**
Hand, 9"L x 3"W	Ampco	**4RPT5**
Hand, 9"L x 4"W	Ampco	**4RPT6**
Hand, 9"L x 5"W	Ampco	**4RPT7**
Hand w/Handle, 3¾"L x 3¾"W, 19"L Overall	Ampco	**1TEB2**
Pick & Scaler, 17¾"L x 3"W	Ampco	**1TEB3**
Spray Booth Scraper 9¼"L x 3"W	Ampco	**4CZ93**
Spatula, Stiff, 5"L Blade	Ampco	**2VJ18**
Spatula, Stiff, 9"L Blade	Ampco	**4DC03**
Spatula, Flexible, 14"L Blade	Ampco	**8AFG5**
Floor Scraper Blade, 6¾"L x 6"W	Ampco	**4CZ98**
Bricklayer Trowel		
5¼"W x 8½"L Blade, 5"L Handle	Ampco	**46C105**
Cutting Tools		
Flat Head Axe (5" Cutting Edge) 6 lb.	Ampco	**2ZB22**
Flat Head Axe (5" Cutting Edge) 8 lb.	Ampco	**8TLL6**
Pick Head Axe (5" Cutting Edge) 6 lb.	Ampco	**8DFC0**
Pick Head Axe (5" Cutting Edge) 8 lb.	Ampco	**8TLL7**
Hatchet, (3⅜" Cutting Edge) 2.2 lb.	Ampco	**9U689**
Pike Pole w/D-Grip Handle, 48"L	Ampco	**9KJ72**
Pike Pole w/Fiberglass Handle, 72"L	Ampco	**8TMP8**
Mattock		
36¼"L	Ampco	**46C033**
Scoops		
8"L x 3"W x 2"H	Ampco	**4RPN8**
12"L x 4⅞"W x 3½"H	Ampco	**4RPN9**
14"L x 5½"W x 4"H	Ampco	**4RPP1**
Square Point Shovels		
D-Handle, 37"L	Ampco	**2VJ17**
Straight Handle, 58"L	Ampco	**4RU46**
Round Point Shovels		
D-Handle, 37"L	Ampco	**2VJ16**
Straight, 56½"L	Ampco	**4RU45**
Scoop Shovels		
D-Handle, 40"L	Ampco	**6WU19**
Long Handle, 60½"L	Ampco	**8RJC5**
Hoes		
Garden/Mixing Hoe, 4"W x 6"L Blade, 55° Handle	Ampco	**1TDZ3**
Garden/Mixing Hoe, 8"W x 8"L Blade, 55° Handle	Ampco	**46C063**
Planters/Mixing Hoe, 8"W x 7¾"L Blade, 55° Handle	Ampco	**4RPP2**

Description	Item No.
Screwdrivers	
#1 Phillips, 6½"L	4CZ89
#2 Phillips, 7½"L	4CZ88
#3 Phillips, 10⅛"L	4CZ91
#4 Phillips, 13"L	8A979
⅛" Slotted, 9½"L	2VJ15
¼" Slotted, 7⅝"L	46C026
¼" Slotted, 9⅝"L	46C066
5⁄16" Slotted, 6½"L	4CZ94
5⁄16" Slotted, 10⅛"L	4CZ95
⅜" Slotted, 13"L	4CZ96
⅜" Slotted, 17"L	4CZ97
Hex Keys	
SAE	
1⁄16", 1¾"L	4RNU8
5⁄32", 2½"L	4RNV3
3⁄16", 2⅞"L	4RNV4
5⁄16", 4⅛"L	4RNV7
⅜", 4⅝"L	4RNV8
½", 5¼"L	4RNV9
⅝", 6¼"L	4RNW1
¾", 7¼"L	4RNW3
Hammers	
Claw Hammers	
1 lb. Head, 14"L	3NY48
1½ lb. Head, 14"L	9VXZ7
Ball Pein Hammers	
¼ lb. Head, 9¾"L	9DZ45
¾ lb. Head, 14"L	8PDE9
1 lb. Head, 14"L	2VE98
1½ lb. Head, 14"L	3NY46

Description	Item No.
2 lb. Head, 14"L	3NY47
2½ lb. Head, 14"L	9CXL0
Double Face Engineers Hammers	
2 lb. Head, 14"L	3NY49
2½ lb. Head, 14"L	2VE99
2¾ lb. Head, 14"L	3NY50
3 lb. Head, 14"L	46C007
Hammer/Claw Crate Opener	
9"L	4CZ63
Pliers	
7" High Leverage Diagonal Cutting Plier	2VJ14
7" Long Nose Plier	4CZ86
8½" Linemans Plier	1TEB1
6½" Slip Joint Pliers	4RPK2
8" Slip Joint Combination Pliers	4CZ84
10" Tongue and Groove Pliers	4CZ87
12" Tongue and Groove Pliers	4CZ85
Combination Wrenches, 12 Pt., 15° Offset	
SAE	
⅜", 6⅜"L	5MM05
½", 7½"L	4DC17
9⁄16", 8⅛"L	4DC18
⅝", 8⅞"L	4DC19
11⁄16", 9⅝"L	5MM07
¾", 10⅝"L	4DC20
13⁄16", 11⅜"L	46C034

Description	Item No.
⅞", 11⅜"L	4DC21
15⁄16", 12¹³⁄₁₆"L	5MM08
1", 14"L	4DC22
1⅛", 15⅜"L	4DC23
1³⁄₁₆", 15⅜"L	46C035
1¹⁄₁₆", 14"L	5MM09
1¼", 16¹⁵⁄₁₆"L	5MM10
1⁵⁄₁₆", 16¹³⁄₁₆"L	4RNZ8
1⅜", 18¹¹⁄₁₆"L	4RNZ9
1⁷⁄₁₆", 18¹¹⁄₁₆"L	4RPA1
1½", 18¹¹⁄₁₆"L	4RPA2
1⅝", 20¹¹⁄₁₆"L	4RPA3
1¹¹⁄₁₆", 22⅝"L	4RPA4
1¹³⁄₁₆", 22⅝"L	46C046
1¾", 22⅝"L	4RPA5
2", 22⅝"L	4RPA6
2⅜", 22⅝"L	4RPA8
Adjustable Wrenches	
5⁄16", 6"L	4DC24
1⅛", 8"L	4DC25
1⁵⁄₁₆", 10"L	4DC26
1½", 12"L	4DC27
1¹¹⁄₁₆", 15"L	4RNU7
Drum Wrenches	
Bung/Drum Plug (Fits ¾ and 2" Plugs)	2VJ22
Bung Wrench 2½ x 2¼" (for 21 different bungs)	4DC15
Straight Pipe Wrenches	
Bronze	
8"L	8W815
10"L	4RPC2

Description	Item No.
14"L	4DC07
18"L	4DC08
24"L	4DC10
36"L	4RPC5
48"L	8ADX7
Aluminum	
10"L	4RPC3
14"L	4RPC4
18"L	4DC09
24"L	4DC11
36"L	4RPC6
48"L	8RF38
Wire Brushes	
Flat Back, 7¼"L	2ZB24
Toothbrush Style, 7⅞"L	2ZB30
Curved Handle, 10"L	4CZ57
Curved Handle, 13¾"L	4CZ58
Tin Snips	
8" Straight	4RPP3
Knives	
3⅜", Stiff	8CEZ6
3¾", Stiff	4CZ73
4", Stiff	4CZ72
4", Stiff	1GXK5
4½", Flexible	4CZ74
Deck Scrapers	
4⅝" Blade	4CZ90





AMPCO MR

MRI Nonmagnetic Tools

Magnetic steel tools have the ability to be unexpectedly launched through the air causing serious injuries and significant damage to expensive MRI equipment. Using MRI-certified nonmagnetic tools helps protect employees and equipment for maintenance and repair work.

Drain Line Cap. I.D. (in.)	Cable Size	Max. Run	Voltage	Includes	Brand	Mfr. Model	Item No.
Closet Augers							
Battery Powered M12™ Drain Snake							
2" to 4"	½" x 6 ft.	6 ft.	12.0	—	Milwaukee	2576-20	**54DM16**
Battery Powered M12™ TRAPSNAKE™							
2" to 4"	½" x 6 ft.	6 ft.	12.0	6 ft. Toilet Auger, REDLITHIUM™ Battery, Battery Charger	Milwaukee	2576-21	**54DM18**
1¼" to 2"/2" to 4"	Toilet Auger ½" x 6 ft., Urinal Auger ⅜" x 4 ft.	4 ft., 6 ft.	12.0	4 ft. Urinal Auger, 6 ft. Toilet Auger, REDLITHIUM™ Battery, Battery Charger	Milwaukee	2577-21	**54DM19**
1¼" to 2"	⅜" x 4 ft.	4 ft.	12.0	4 ft. Urinal Auger, REDLITHIUM™ Battery, Battery Charger	Milwaukee	2574-21	**54DM20**
Hand Powered							
—	½	3	—	—	Ridgid	59787	**4CX10**
Up to 2	½	6	—	—	Ridgid	56658	**476G21**
Up to 2	½	6	—	Toilet Auger, Bulb Auger, C-Cutter, Storage Ring, Storage Bag	Ridgid	56663	**476G22**
Up to 2"	⅜	4	—	—	Milwaukee	49-16-2574	**54DM15**
Up to 4"	½	6	—	—	Milwaukee	49-16-2576	**54DM14**
Combination Urinal Auger and Shower Drain Auger							
Hand Powered							
Up to 2	⅜	4	—	—	Ridgid	46683	**31XN16**
Urinal Augers							
Battery Powered M12™							
1¼" to 2"	⅜" x 4 ft.	4 ft.	12.0	—	Milwaukee	2574-20	**54DM17**



Milwaukee RIDGID

Closet, Urinal, and Drain Augers

Auger helps for unclogging toilets, floor traps and aids in blockage removal. Flexible cable resists kinking and has an Integrated locking device, holding cable in place for easy telescoping extension. Milwaukee units feature electronically controlled rpm and torque power for tough clogs in tight traps. No. 31XN16 combination auger has left-hand wound cable with C-cutter head.





WESTWARD

Hand Spinners

Clean drain lines up to 1½".

Description	Item No.
Hand Spin Drain Cleaner	6ATX9
Manual/Power Drain Cleaner	6ATY1

RIDGID WESTWARD Milwaukee

Drain Cleaning Guns

Durable 2-pc. steel canister has an interchangeable inner drum for easy cable changes. Soft start. A slide-action chuck. Single-action feed automatically extends the cable down the pipe. Cable can be retrieved without reversing the drill motor.







Chuck Type	Drain Line Cap. I.D. (in.)	Includes	Max. Run (ft.)	Brand	Mfr. Model	Item No.
Corded						
Manual	¾ to 2 ½	AUTOFEED, C-1IC 5⁄16" x 25 Ft Cable	50	Ridgid	35473	**6DNX7**
	¾ to 2 ½	C-1IC Cable, No. 4CX08	50	Ridgid	36013	**6DNX8**
	¾ to 2 ½	C-1IC, C-6, and C-21 Cables, A-1-3 Pin Key, T-203 Bulb Auger, T-205 "C" Cutter, T-210 Spade Cutter, T-217 Drop Head Auger, C-6429 Carrying Case	50	Ridgid	36028	**6DNX9**
Slide Action	¾ to 2½	Cables: Inner Core Cable 5⁄16" x 25 ft. (CS-5/16-25), ⅜" x 35 ft. (CE-3/8-35), 5⁄16" x 50 ft. (CE-5/16-50), Tools: Coupling Pin Key (PK-5/8), Bulb Auger (BA-5/8), C-Cutter (CC-5/8), Spade Cutter (SC-5/8), Drop Head Auger (DH-5/8), Carrying Case, Pair of Leather Gloves	50	Westward	22XP37	**22XP37**
	¾ to 2½	Cable Feeder, Inner Core Cable 5⁄16" x 25 ft. (CS-5/16-25) , Carrying Case, Pair of Leather Gloves	50	Westward	22XP35	**22XP35**
	¾ to 2½	C-1IC, 5⁄16" x 25 ft. Inner Core Cable with Inner Drum, C-6, ⅜" x 35 ft. Cable with Inner Drum, Carrying Case	35	Ridgid	36023	**38HY60**
	2½	Inner Core Cable 5⁄16" x 25 ft. (CS-5/16-25), Carrying Case, Pair of Leather Gloves	50	Westward	22XP36	**22XP36**

Includes	Drain Line I.D. Size Range	Max. Run	Mfr. Model	Item No.
Cordless Milwaukee M12 Battery, Bare Tool				
Bulb Cable with Drum, 5 gal. Storage Bucket	1¼" to 2½"	25 ft.	2571-20	**54DM02**
Cordless Milwaukee M12 Battery				
Drain Gun, REDLITHIUM™ Battery, Battery Charger, Bulb Cable with Drum, 5 gal. Storage Bucket	1¼" to 2½"	25 ft.	2571-21	**54DM03**
Cordless Milwaukee M18 Fuel™, Bare Tool				
—	1¼" to 4"	50 ft.	2772A-20	**422W05**
Cordless Milwaukee M18 Fuel™				
Inner Core Bulb, Head Cable, M18™ REDLITHIUM™ 2.0Ah Compact Battery, Battery Charger, Case	1¼" to 4"	50 ft.	2772A-21	**422W06**
Inner Core Bulb Head Cable,(1) 5⁄16" x 35 ft. Inner Core Coupling Cable with RUST GUARD™ Plating, (4) Cable Attachments , 1" Spade Bit, 1" C-Cutter, Small Bulb Head, Small Drop Head, Pin Key, M18™ REDLITHIUM™ XC Battery, Battery Charger, Case	1¼" to 4"	50 ft.	2772B-21XC	**422W07**
Cordless Milwaukee M18 Fuel™ Switch Pack™				
Anchor Cable, 5⁄16" X 75 ft. Inner Core Bulb Head Cable with RUST GUARD™ Plating, M18™ REDLITHIUM™ Battery, Battery Charger	1¼" to 4"	100 ft.	2775A-211	**422W08**
Anchor Cable, Inner Core Coupling Cable with RUST GUARD™ Plating, (4) Cable Head Attachments with Rust Guard™ Plating, 1½" Spade Bit, 1½" C-Cutter, Medium Funnel, Medium Drop Head, Pin Key, M18™ REDLITHIUM™ Battery, Battery Charger	1¼" to 4"	100 ft.	2775B-211	**422W09**
(2) Switch Pack™ Drums with Anchor Cable, (2) ½" x 50 ft. Inner Core Coupling Cables with RUST GUARD™ Plating, (4) Cable Head Attachments, 1½" Spade Bit, 1½" C-Cutter, Medium Funnel, Medium Drop Head, Pin Key, (2) M18™ REDLITHIUM™ Battery, Battery Charger	1¼" to 4"	100 ft.	2775C-222	**422W10**
Switch Pack™ Drum with Anchor Cable, M18™ REDLITHIUM™ Battery, Battery Charger	1¼" to 4"	100 ft.	2775-211	**422W12**



No. 422W15

Air Drain Cleaning Guns

Milwaukee

Clears clogged drains while leaving fixtures and drain covers intact. Power air flushes water out of pipes, removes grease and sludge from pipe walls. For 1" to 4" drain lines and can clear up to 35 ft. while Provides variable pressure dial control, allowing maximum force to clear up drain lines up to 35 ft. or less forceful power on delicate pipe systems.

Drain Line Capacity I.D.	Includes	Max. Run	Max. PSI	Mfr. Model	Item No.
M12™ Airsnake™ Drain Cleaning Gun Kit					
1¼ in to 4 in	(3) Straight Connectors, 1 in to 4 in Drain Plug, 15° Offset Connector, Battery Charger, Case, Drain Shroud Attachment, M12(TM) REDLITHIUM(TM) 2.0Ah Compact Battery	35 ft	50	2572A-21	**422W15**
	(3) Straight Connectors, 1 in to 4 in Drain Plug, 15° Offset Connector, Battery Charger, Case, Drain Shroud Attachment, M12(TM) Airsnake(TM) 10 in Extension, M12(TM) REDLITHIUM(TM) 2.0Ah Compact Battery, Toilet Seal Attachment	35 ft	50	2572B-21	**422W16**
Air Gun Extension					
	Air Gun Extension 10 in			48-53-2570	**422W17**



No. 4CX15

Water Jetters

RIDGID

Propels a highly flexible hose through soap, sludge, and grease blockages. Two pulse actions push the hose through difficult bends and traps. Corrosion-resistant pump with forged brass head minimizes leaks. Pressure control value allows quick and easy pressure adjustment while power scrubbing, flushing out debris, and restoring drain lines back to free-flowing capacity. No. 13C596 includes two-wheeled cart, easily fits through most standards size doors and maneuvers with ease.

Drain Line I.D. Size Range	Max. Run	HP	Jet Pressure	Flow Rate	Power Source	Includes	Mfr. Model	Item No.
1¼" to 4"	200 ft.	2	1750 psi	1.4 gpm	Electric Motor	(4CW98) ½ in. x 110 ft. Jet Hose, Cart with Hose Reel, H-41, H-42, and H-44 ⅛" NPT Nozzles, H-51 and H-52 ¼" NPT Nozzles, 50' x ⅛" (15.2 m x 3.2 mm) Sink Trap Hose, Nylon Storage Bag, Nozzle Cleaning Tool	62697	**4CX15**
1¼" to 6"	200 ft.	6.5	2200 psi	2.4 gpm	Gas Engine	(5) Nozzles: H-61, H-62, H-64, H-71, H-72, 3⁄16" x 75 ft. Jet Hose, ¼" x 110 ft. Jet Hose, ½" x 35 ft. Wash Hose, FV-1 Foot Valve, Nozzle Cleaning Tool.	63882	**2RPC8**
2" to 10"	300 ft.	16	3000 psi	5.5 gpm	Gas Engine	Mfr. Model Nos. ¼" NPT Nozzles: H-111 and H-112, H-38 Hose Reel with 200 ft. x ⅜" ID Jet Hose, 50 ft. x ⅜" ID Jet/Wash Hose, FV-1 Foot Valve, HW-30 Wash Wand, Nozzle Cleaning Tool	37413	**13C596**



No. 1EZ18

No. 22XP40

Drain Cleaning Machines

RIDGID ROTHENBERGER pipetool technologies at work WESTWARD

Drum Machines—Have high-torque, long-running motors that combine with durable cables and cutters to eliminate blockages. Inner drum minimizes the potential of the cable flipping. Universal motor automatically slows cable and increases torque when met with obstructions.

Sectional Machines—Feature high-speed cutting action that allow you to drill through drain blockages quickly. Push the handle down and the cable spins at 710 rpm. Release the handle and the cable stops instantly.

Note: To order additional cable see page 865. Additional drums and cable sizes are available; call 1-800-GRAINGER (472-4643). Accessories available at Grainger.com®.

Drain Line I.D. Size Range	Max. Run	Maximum Drum Capacity	Includes	HP	Brand	Mfr. Model	Item No.
Drum Machines							
¾" to 1½"	30 ft.	—	Hose Extension, Clear Cover	¼	Ridgid	55808	**476G23**
¾" to 2½"	35 ft.	35 ft of 5⁄16" Cable	5⁄16 In x 35 Ft Inner Core Speed Bump Cable With Bulb Auger and Inner Drum, Autofeed With Guide Hose and Mounting Bracket	⅛	Ridgid	71722	**5LC09**
¾" to 4"	100 ft.	100 ft of ⅜" Cable, 90 ft of ½" Cable	(6A649) ⅜ In x 75 Ft Inner Core Cable, (1VXC6) 1⅛ In Bulb Auger, (1VXD1) 1⅜ In C-cutter, (1VXD5) 1⅜ In Grease Cutter, (1VUZ9) Coupling Pin Key, Pair of Gloves	1/12	Ridgid	53117	**4CX03**
	200 ft.	—	13 ft. Guide Hose	9⁄16	Rothenberger	72869V	**53RF35**
1½" to 4"	75 ft.	100 ft of ⅜" Cable, 75 ft of ½" Cable	½" x 75 Ft Integral Wound Solid Core Cable, 4CW97 Tool Set Consisting Of 1⅛" Bulb Auger, 1⅜" C-cutter, 1⅜" Grease Cutter and Coupling Pin Key	⅓	Ridgid	26998	**2AER5**
	100 ft.	75 ft of 1/7"	1/2in. x 75ft. Solid Core Cable, Tool Box, Tool Set with 1⅛" Bulb Auger, 1⅞" C Cutter, 1⅜" Grease Cutter, Pin Key, Pair of Leather Work Gloves	⅓	Westward	22XP38	**22XP38**
	100 ft.	100 ft of ⅜"	⅜" × 75' Solid Core Cable, Tool Box, Tool Set with 1⅛" Bulb Auger, 1⅞" C Cutter, 1" Grease Cutter, Pin Key, Pair of Leather Work Gloves	⅓	Westward	22XP39	**22XP39**
	100 ft.	100 ft of ⅜" Cable, 75 ft of ½" Cable	K-400 Machine with Gloves, C-32 IW ⅜" x 75 ft. Solid Core (Integral Wound) Cable, T-260 Tool Set, Drain Cleaning Gloves, Operators Manual and Instructional Video	⅓	Ridgid	52363	**45MJ52**
	100 ft.	100 ft of ⅜" Cable, 75 ft of ½" Cable	½" x 75 ft. Solid Core Cable	⅓	Ridgid	27013	**40GL42**
	100 ft.	100 ft of ⅜" Cable, 75 ft of ½" Cable	⅜" x 75 ft. IW Cable, T-260 Tool Set	⅓	Ridgid	27008	**40GL54**
3" to 8"	200 ft.	100 ft of ¾" Cable, 125 ft of ⅝" Cable	(4CW83) ¾ In x 100 Ft Inner Core Cable, (1VXE7) Spear Blade Cutter, (1VXE8) Retrieving Auger, (1VXF1) 2 In, (1VXF2) 3 In, (1VXF4) 4 In Double Cutters, Pair of Gloves	½	Ridgid	K-750/42007	**1ATH5**
3" to 6"	200 ft.	100 ft of ⅝" Cable	⅝ In x 100 Ft Integral Wound Cable, (1VXF1) 2 In, (1VXF2) 3 In, (1VXF4) 4 In Double Cutters, (1VXE7) Spear Blade Cutter, Pair of Work Gloves, 2 Reclining Legs, ⅝ In x 2 Ft Trap Leader, Tool box	4/10	Ridgid	93557	**3FE63**
3" to 8"	200 ft.	100 ft of ¾" Cable, 125 ft of ⅝" Cable	100 ft. x ⅝" Cable	½	Ridgid	47047	**40GL57**
3" to 10"	250 ft.	100 ft of ¾" Cable, 125 ft of ⅝" Cable	(4CW83) ¾ In x 100 Ft Inner Core Cable, (1VXE7) Spear Blade Cutter, (1VXE8) Retrieving Auger, (1VXF1) 2 In, (1VXF2) 3 In Double Cutters, 4 and 6 In Double Cutter Blade Only, (1VXE9) Spiral Sawtooth Cutter, (1VXE6) 3 In P-trap Cutter, (1VXG2) ¾ In x 2 Ft Flexible Leader, Hex Key, Pair of Gloves, Tool Box	4/10	Ridgid	60052	**4CX14**
4" to 8"	125 ft.	100 ft of ¾"	Tool Set with 1¾" Spear Blade, 1-½" Retrievable Auger, 2" Double Cutter, 3" Double Cutter, 4" Double Cutter, Pin Key, Cable Feeder and Cable Guide (Cable 22XP57 Not Included), Tool Box, Pair of Leather Work Gloves	⅔	Westward	22XP40	**22XP40**
	125 ft.	100 ft. of ¾" Cable	Tool Set with 1¾" Spear Blade, 1-½" Retrievable Auger, 2" Double Cutter, 3" Double Cutter, 4" Double Cutter, Pin Key, Cable Feeder and Cable Guide, Tool Box, Pair of Leather Work Gloves, Inner Core Cable ¾" x 100 ft.	⅔	Westward	7DD56	**7DD56**
Sectional Machines							
¾" to 4"	100 ft.	—	Machine Only	1/6	Ridgid	58920	**2RPC7**
1¼" to 4"	100 ft.	50 ft of 5⁄16" Cable, 35 ft of ⅜" Cable	(1VXA1) Adapter With 5⁄16 In x 25 Ft Cable With Bulb Auger, (1VXB1) Adapter With ⅜ In x 35 Ft Cable With Bulb Auger, 6 Sections of (6X908) ⅝ In x 7½ Ft Sectional Cable, (1VXC4) 5 In Straight Auger, (1VXC6) 1⅛ In Bulb Auger, (1VXD1) 1⅜ In C-cutter, (1VXD5) 1⅜ In Grease Cutter, (1VUZ9) Coupling Pin Key, (1VUZ8) Left Leather Mitt With Steel Studs, Cable Carrier	1/6	Ridgid	59000	**4Z249**
	100 ft.	50 ft of ⅝" Cable, 35 ft of ⅜" Cable	Rigid Sectional Machine, K-50 Dry Cleaning Machine, Operators Manual, T-201 Straight Auger, Cutter T-211 Spade Cutter, A-13 Coupling Pin Key, A-10 Cable Carrier, A-14-6 Rear Guide Hose, and A-1 Left-Hand RIDGID Drain Cleaning Mitt in the A-30 Kit	1/6	Ridgid	58960	**40GL50**
	150 ft.	—	Operators Mitt, Rear Guide Hose, Cable Carrier, Five 15 ft Sections Of ⅞" Cable, Straight Auger, Funnel Auger, Spade Cutter, Retrieving Auger, Sharktooth Cutter, Tool Box, Pin Key	½	Ridgid	66497	**1XDX9**
2" to 8"	200 ft.	—	7 Sections of (2W354) 1¼ In x 15 Ft Sectional Cable (For Total of 105 Ft), (1VUZ8) Left Leather Mitt with Steel Studs, (1VXC3) Straight Auger, (1VXD9) Funnel Auger, (1VXE2) Funnel Retrieving Auger, (1VXC2) 2½ In Sawtooth Cutter, (1VXG4) 3 In Sharktooth Cutter, (1VXE4) 2½ In Grease Cutter, 2 Hex Keys, 12 Ft Rear Guide Hose, Coupling Pin Key, 2 Cable Carriers, Tool Box	¾	Ridgid	23712	**1EZ18**
	200 ft.	—	7 Sections of (2W354) 1¼ In x 15 Ft Sectional Cable (For Total of 105 Ft), (1VUZ8) Left Leather Mitt with Steel Studs, (1VXC3) Straight Auger, (1VXD9) Funnel Auger, (1VXE2) Funnel Retrieving Auger, (1VXC2) 2½ In Sawtooth Cutter, (1VXG4) 3 In Sharktooth Cutter, (1VXE4) 2½ In Grease Cutter, 2 Hex Keys, 12 Ft Rear Guide Hose, Coupling Pin Key, 2 Cable Carriers, Tool Box	¾	Ridgid	23717	**3Z748**

RIDGID ★ WESTWARD Milwaukee

Drain Cleaning Cables and Accessories

Description	Size	Brand	Mfr. Model	Item No.
For Use with Nos. 1ATH5, 3FE63, and 4CX14				
Inner Core Cable	5/8 in x 25 ft	Ridgid	92460	**1VUZ2**
Inner Core Cable	5/8 in x 50 ft	Ridgid	92465	**1VUZ4**
Inner Core Cable	5/8 in x 75 ft	Ridgid	92470	**1VUZ5**
Inner Core Cable	5/8 in x 100 ft	Ridgid	43647	**1VXH7**
Hollow Core Cable	5/8 in x 100 ft	Ridgid	58192	**1VUX1**
Integral Wound Cable	5/8 in x 100 ft	Ridgid	37643	**13C597**
Inner Core Cable	3/4 in x 50 ft	Ridgid	92480	**4Z979**
Inner Core Cable	3/4 in x 75 ft	Ridgid	41212	**1VXH6**
Inner Core Cable	3/4 in x 100 ft	Ridgid	41697	**4CW83**
Flexible Leader	3/4 in x 2 ft	Ridgid	92560	**1VXG2**
Bulb Auger	1 3/4 in	Ridgid	51762R	**1VXC1**
Retrieving Auger	2 3/16 in	Ridgid	92500	**1VXE8**
P-Trap Cutter	3 in W	Ridgid	92485	**1VXE6**
Spade Cutter	1 3/4 in	Ridgid	92495	**1VXE7**
Spiral Saw Tooth Cutter	3 in W	Ridgid	92505	**1VXE9**
Double Cutter	2 in W	Ridgid	92510	**1VXF1**
Double Cutter	3 in W	Ridgid	92520	**1VXF2**
Double Cutter	4 in W	Ridgid	92525	**1VXF4**
3 Blade Cutter	2 in W	Ridgid	92535	**1VXF6**
3 Blade Cutter	3 in W	Ridgid	92540	**1VXF8**
Autofeed Assembly	—	Ridgid	43642	**1VUZ7** *
For Use with Nos. 5LC09, 4MY89, 4Z661, 2ZB61, and 4Z249				
Inner Core Cable w/Drop Head Auger	5/16 in x 25 ft	Ridgid	56787	**1VUW8**
Inner Core Cable w/Drop Head Auger	5/16 in x 35 ft	Ridgid	56797	**1VUW9**
Inner Core Cable w/Male Coupling	3/8 in x 25 ft	Ridgid	62245	**6X907**
Hollow Core Cable w/Drop Head Auger	5/16 in x 25 ft	Ridgid	62235	**1VUX4**
Hollow Core Cable w/Bulb Auger	5/16 in x 50 ft	Ridgid	89400	**1VUY7**
Hollow Core Cable w/Drop Head Auger	5/16 in x 50 ft	Ridgid	89405	**1VUY9**
Hollow Core Cable w/Bulb Auger	5/16 in x 25 ft	Ridgid	62225	**1VUX3**
Hollow Core Cable w/Bulb Auger	3/8 in x 35 ft	Ridgid	62250	**1VUX5**
Hollow Core Cable w/Male Coupling	3/8 in x 35 ft	Ridgid	62260	**1VUX6**
Straight Auger	5 in L	Ridgid	62990	**1VXC4**
Bulb Auger	7/8 in W	Ridgid	63000	**1VXC8**
Bulb Auger	1 1/8 in W	Ridgid	62995	**1VXC6**
Funnel Auger	3 in L	Ridgid	63010	**1VXD3**
Drop Head Auger	4 in L	Ridgid	63065	**1VXD7**
C Cutter	1 3/8 in W	Ridgid	63005	**1VXD1**
Spade Cutter	1 3/8 in W	Ridgid	63035	**1VXD5**
For Use with Nos. 4Z249 and 1XDX9				
Sectional Cable	5/8 in x 7 1/2 ft	Ridgid	62270	**6X908**
Sectional Cable	5/8 in x 7 1/2 ft	Ridgid	62265	**1VUX7**
Sectional Cable	5/8 in x 10 ft	Ridgid	51317	**1VXH8**
Sectional Cable	7/8 in x 15 ft	Ridgid	62275	**1VUX8**
Sectional Cable	1 1/4 in x 15 ft	Ridgid	62280	**2W354**
Clutch Jaw Set	—	Ridgid	59450	**1VXB5**
Cable Adapter w/Bulb Auger	5/16 in x 25 ft	Ridgid	59250	**1VXA1**
Cable Adapter w/Bulb Auger	3/8 in x 35 ft	Ridgid	59255	**1VXB1**
Drain Cleaning Mitt, Left Hand	—	Ridgid	59205	**1VUZ8**
Drain Cleaning Mitt, Right Hand	—	Ridgid	59295	**1VXB3**
Coupling Pin Key for 3/8 Cable	—	Ridgid	59230	**1VUZ9**
For Use with Nos. 6ATX9 and 6ATY1				
Hollow Core Cable	5/16 in x 35 ft	Westward	—	**6ATY0**
For Use with Nos. 22XP40 and 7DD56				
Autofeed Assembly	4 1 1/16 in x 11 in x 9 1/8 in	Westward	49U741	**49U741**
For Use with Nos. 2AER4, and 2AER5				
Guide Hose	—	Ridgid	26778	**2AER7**
For Use with Nos. 4CX03, 2AER4, 2AER5				
Inner Core Cable w/Bulb Auger	5/16 in x 25 ft	Ridgid	56782	**4CX08**
Inner Core Cable w/Male Coupling	3/8 in x 50 ft	Ridgid	37842	**1VXH3**
Inner Core Cable w/Male Coupling	3/8 in x 75 ft	Ridgid	37847	**6A649**
Inner Core Cable w/Male Coupling	3/8 in x 100 ft	Ridgid	37852	**1VXH4**
Inner Core Cable w/Male Coupling	1/2 in x 50 ft	Ridgid	37857	**1VXH5**
Inner Core Cable w/Male Coupling	1/2 in x 75 ft	Ridgid	37862	**4CW70**
Solid Core Cable w/Male Coupling	3/8 in x 75 ft	Ridgid	87582	**6NZ27**
Solid Core Cable w/Male Coupling	1/2 in x 75 ft	Ridgid	87597	**6NZ28**
For Use with No. 4CX03				
Autofeed Assembly	—	Ridgid	60087	**1VXB7**
For Use with Nos. 1EZ18 and 3Z748				
Straight Auger	1 in W	Ridgid	62840	**1VXC3**
Funnel Auger	2 1/2 in	Ridgid	63105	**1VXD9**
Funnel Auger, Retrieving	4 in L	Ridgid	63195	**1VXE2**
Spade Cutter	2 1/2 in W	Ridgid	63205	**1VXE4**

Works only on No. 1ATH5 Drain Cleaning Machine, sold on page 864.



Inner Core Cable w/ Drop Head Auger



Hollow Core Cable w/Bulb Auger



Bulb Auger



P-Trap Cutter



Spiral Sawtooth Cutter



3-Blade Cutter



Straight Auger



Autofeed Assembly

Description	Size	Brand	Mfr. Model	Item No.
Spiral Saw Tooth Cutter	2 1/2 in W	Ridgid	61970	**1VXC2**
Spiral Saw Tooth Cutter	3 in W	Ridgid	98035	**1VXG4**
Spiral Saw Tooth Cutter	4 in W	Ridgid	98040	**1VXG6**
Clutch Jaw Set	1 1/4 in	Ridgid	59320	**1VXB4**
For Use with Nos. 22XP38 and 22XP39				
Inner Core Cable	3/8 in x 75 ft	Westward	—	**22XP48**
Inner Core Cable	1/2 in x 75 ft	Westward	—	**22XP56**
Bulb Auger	1 1/8 in D x 3 7/8 in L	Westward	—	**22XP50**
C-Cutter	1 1/8 in D x 1 3/8 in L	Westward	—	**22XP51**
Spade Cutter	1 3/8 in D x 1 7/8 in L	Westward	—	**22XP52**
Autofeed Assembly	13 3/4 x 7 1/2 x 4 5/16 in	Westward	—	**22XP41**
Coupling Pin Key	5/8 in	Westward	—	**22XP54**
For Use with Nos. 7DD56 and 22XP40				
Inner Core Cable	3/4 in x 100 ft	Westward	—	**22XP57**
Retrieving Auger	1 1/2 in dia X 5 in L	Westward	—	**22XP59**
Spade Cutter	1 3/4 in D x 2 1/2 in L	Westward	—	**22XP58**
Double Cutter	2 in D X 2 7/8 in L	Westward	—	**22XP60**
Double Cutter	4 in D X 5 1/4 in L	Westward	—	**22XP62**
Double Cutter	3 in D x 3 7/8 in L	Westward	—	**22XP61**
Coupling Pin Key	7/8 in	Westward	—	**22XP55**
For Use with Nos. 22XP35, 22XP36, and 22XP37				
Inner Core Cable w/Bulb Auger	5/16 in x 25 ft	Westward	—	**22XP42**
Hollow Core Cable	3/8 in X 35 ft	Westward	—	**22XP43**
Hollow Core Cable	5/16 in x 50 ft	Westward	—	**22XP44**
Bulb Auger	7/8 in D x 3 7/8 in L	Westward	—	**22XP46**
Spade Cutter	1 in D x 1 1/2 in L	Westward	—	**22XP53**
Drop Head Auger	7/8 in D x 3 1/2 in L	Westward	—	**22XP47**

No. of Pieces	Description	Includes	Brand	Mfr. Model	Item No.
Drain Cleaning Accessories					
14	Cable Kit for No. 4Z249	A-1 Left Handed Mitt, A-10 Cable Carrier, A-13 Coupling Key, A-14-6 Rear Guide Hose, Six Sections C-8 Cable 5/8 in X 7 1/2 ft, T-202 Bulb Auger, T-205 C Cutter, T-211 Spade Cutter, T201 Straight Auger	Ridgid	59365	**1VUX2**
5	Tool Kit for Nos. 5LC09, 4MY89, 4Z661, 4Z249, and 2ZB61	1 in Grease Cutter, 1 3/8 in C Cutter, 4 in Long Drop-Head Auger, 7/8 in Bulb Auger, Coupling Pin Key	Ridgid	48482	**1VXB9**
5	Tool Set for Nos. 22XP38 and 22XP39	BA-5/8 Bulb Auger, CC-5/8 C-Cutter, DH-5/8 Drop Head Auger, PK-5/8 Coupling Pin Key, SC-5/8 Spade Cutter 1 in	Westward	—	**22XP49**
4	Tool Set for Nos. 22XP35, 22XP36, and 22XP37	BA-5/8-1 Bulb Auger, CC-5/8 C-Cutter, PK-5/8 Coupling Pin Key, SC-5/8-1 Spade Cutter 1 3/8 in	Westward	—	**22XP45**
4	Tool Set for 3/8" Cable	1 1/8 in Bulb Auger, 1 3/8 in C Cutter, 1 3/8 in Spade Cutter, Coupling Pin	Ridgid	49002	**4CW97**
4	Tool Set for 1/2" Cable	(4) Tools, 1 3/4 in Spade Cutter, 2 1/2 in Knife Cutter, Coupling Pin Key, Funnel Auger	Ridgid	54992	**4CX04**
—	Switch Pack Drum For Use With All Brand Cables	—	Milwaukee	47-53-2775	**422W13**



Camera Reel
No. 6DNY3



NanoReel
Camera Reel
No. 13C592



Digital
Recording
Monitor
No. 53RH23



microReel
L100C/CA-300
No. 26C164



Inspection
Camera
No. 13G252



Inspection
Camera
No. 53RF31



Inspection
Camera
No. 53RH22

Camera Systems

RIDGID Milwaukee ROTHENBERGER pipetool technologies at work

CAMERA REELS

Waterproof, 3-pin SeeSnake® reels feature abrasion-resistant wrapped inner core with integrated power/video signal. Hardened stainless steel camera head spring assembly provides optimum durability. In-line transmitter is located behind camera head. Scratch-resistant lens cover is made of sapphire crystal. Rugged, high-intensity light provides exceptional viewing. Include footage counter on monitor and fiberglass push rod. Reels have metal frame, polyethylene drum, and centering guides. They're designed to create a custom inspection camera system based on specific applications, and work with monitors on this page. Self-leveling cameras provide clear images that stay upright.

MONITORS

Laptop Interface monitors work with SeeSnake® reels to provide recording, monitoring, and reporting. Clean keys control pad lets you keep gloved hands off your laptop while controlling camera recording and operation. Battery power allows you to inspect when AC power is not available. Include SeeSnake HQ monitoring/recording software, AC power cable, and battery charger. SeeSnake HQ software lets you edit, archive, and deliver reports in print, on DVD, or online.

INSPECTION CAMERAS

Rigid®—Handheld Inspection Camera No. 26C165 features pistol grip, 3 ft. RCA cable (video out), and 180° image rotation. 17mm aluminum camera head and cable are waterproof up to 10 ft. Includes 2.4" color LCD screen, 4 adjustable LEDs in camera head, hook, magnet, mirror, and case. Pipe Inspection Systems Nos. 26C163 and 26C164 include camera reel and CA-300 inspection camera. Feature monitoring capability and interchangeable drums. No. 26C163 includes rechargeable Li-Ion battery, 2 ball guides, and reel No. 6EEE0. No. 26C164 includes rechargeable Li-ion battery, 2 ball guides, and reel No. 6DNY3.

Milwaukee®—High-resolution color LCD and automatic shutoff. 12V lithium ion battery and 30-min. quick charger included. Replacement battery and charger sold on page 681.

ROTHENBERGER—Multifunction ROSCOPE® 1000 technology features 720 x 480 pixel resolution (JPEG) and 5-pin connection for previous Rothenburger modules to be used. Function keys are arranged for single hand use. Includes headset connection for personal audio commentary, Li-ion battery for 3 to 5 hr. battery life, and SD card slot for storage.

Description	Pipe Cap. (in.)	Push Rod Length (ft.)	Camera Dia. (in.)	Brand	Mfr. Model	Item No.
Camera Reels						
microReel L100C (CA350) Camera Reel	1½ to 4	100	0.98	Ridgid	35188	**6DNY3**
microDrain™ Camera Reel	1½ to 3	65	0.86	Ridgid	37473	**6EEE0**
SeeSnake™ NanoReel Camera Reel	¾ to 2	85	⅝	Ridgid	40008	**13C592**
SeeSnake® Max™ rM200 Camera Reel	1½ to 6	—	1	Ridgid	42348	**34F824**
Monitors						
Digital Recording Monitor, 6½" Monitor Size				Ridgid	55978	**53RH23**
Digital Recording Monitor, 12⅞4" Monitor Size, Tool Only				Ridgid	CS12X	**53VA61**
Digital Recording Monitor, 12⅞4" Monitor Size, (2) Batteries & Charger Included				Ridgid	CS12X	**53VA62**
Inspection Cameras						
M-12™ Inspector Kit, Rotating LCD Screen, Shaft Length 36"				Milwaukee	2313-21	**13G252**
M-12™ Inspector Kit, Rotating LCD Screen, Shaft Length 9'				Milwaukee	2314-21	**13G256**
CA-25 Inspection Camera				Ridgid	40043	**26C165**
microDrain/CA350 Digital Pipe Inspection System				Ridgid	40788	**26C163**
microReel L100C/CA350 Digital Pipe Inspection System				Ridgid	40808	**26C164**
Video, Image				Ridgid	36848	**53RH21**
Video, Audio, Image				Ridgid	55898	**53RH22**
3' Shaft, 3.5" Touchscreen Monitor, Bluetooth Connectable				Rothenberger	69608	**53RF31**
Accessories						
Interconnect Cable				Ridgid	33108	**4PCE7**



No.
4ETA5

Pipe and Utility Locating Equipment

ROTHENBERGER pipetool technologies at work RIDGID

Pipe/Cable/Sonde Locator—Locate inline transmitters, remote transmitters (sondes), and energized direct buried cables. Push-button readings up to 15 ft. depending on soil conditions and signal strength. Features weatherproof membrane buttons, speaker, low battery warning, and manual gain control.

NaviTrack Scout® Sonde/Line Locator—Sends signals out in multiple directions to maintain contact with transmitters for fast, easy locating at depths of more than 15 ft. Use it to locate SeeSnake® camera systems, so you can find the blockages that the camera is seeing, as well as to trace bare utility lines. Includes advanced search function, advanced map function, and depth measurement. Automatic or manual gain control.

SeekTech™ Line Locator—Lightweight, rugged receiver traces frequencies from 10 Hz to 35 kHz through just about any terrain. Target line and guidance arrows help quickly identify distortion.

SeekTech™ Line Transmitter—Energizes metallic lines for tracing with a locator. An easy-to-read LCD and an audio signal provide feedback that allows confirmation of a good circuit before beginning a trace.

Description	Includes	Brand	Mfr. Model	Item No.
Pipe/Cable/Sonde Locator, Up to 15ft. Depth	Batteries, Carrying Case, Operator's Manual	Rothenberger	69001	**4ETA5**
Pipe/Cable/Sonde Locator, Up to 8 ft. Depth	Carry Case	Rothenberger	69606	**53RF33**
NaviTrack Scout™ Sonde/Line Locator	Hard Plastic Carrying Case, Surface Markers and Clip, Instructional Video, Operator's Manual and Batteries	Ridgid	19238	**1VUT8**
SeekTech™ Line Locator	(4) C-Cell Batteries, Hard Carrying Case, Marker Chips, Training CD, and Instructions	Ridgid	21893	**1DPH2**
SeekTech™ Line Transmitter	(2) 25 ft. Coil Connectors, (8) C-Cell Batteries, Shoulder Strap and Instructions	Ridgid	21903	**1DPH4**



End Pipe, Cast Iron No. 4CW43

WESTWARD PROTO RIDGID Milwaukee

Pipe Wrenches

GEDORE ROTHENBERGER

Overall Length	Jaw Cap.	WESTWARD Item No.	PROTO Item No.	RIDGID Item No.	MILWAUKEE Item No.	GEDORE Item No.	ROTHENBERGER Item No.
End Pipe Wrench - Aluminum							
14"	2"	—	—	6YJ46	—	—	—
18"	2"	39CG47	—	—	—	—	—
18"	2½"	—	—	6YJ47	—	—	—
End Pipe Wrench - Cast Iron							
14"	1½"	6ATY5	—	—	—	—	—
14"	2"	—	—	4CW43	—	—	—
18"	2"	39CG50	—	—	—	—	—
18"	2½"	—	—	4CW44	—	—	—
Hex Pipe Wrench - Cast Iron							
9½"	2⅝"	6ATY4	—	4A504	—	—	—
13"	2⅝"	—	—	—	487R37	—	—
20"	2"	—	—	40GL48	—	—	—
Monkey Wrench - Cast Iron							
12"	2⅝"	6ATY6	—	5FY89	—	—	—
Monkey Wrench - Steel							
9"	2¼"	39CG48	—	—	—	—	—
11"	3"	39CG45	—	—	—	—	—
14¾"	3⅛"	39CG44	—	—	—	—	—
Offset Pipe Wrench - Aluminum							
14"	2"	1XJZ7	—	1EZ15	—	—	53RF23
18"	2½"	1XJZ8	—	4CW45	487R40	—	53RF24
24"	3"	1XJZ9	—	1EZ16	—	—	—
Rapid Pipe Wrench - Aluminum							
18"	2½"	—	—	4MY88	—	—	—
Straight Pipe Wrench - Aluminum							
10"	1½"	3MA10	38WF23	6A650	52XH85	—	53RF16
10", 14"	1½", 2"	4YR92	—	—	—	—	—
10"	1½"	—	—	—	487R47	—	—
12"	2"	3MA11	38WF24	6YJ41	52XH86	—	—
14"	2"	3MA12	38WF25	6A651	52XH87	—	53RF18
14"	2"	—	—	—	487R39	—	—
18"	2½"	4YR90	—	6A652	52XH88	—	53RF19
18"	3½"	—	38WF26	—	—	—	—
24"	3"	4YR91	—	6A653	52XH89	—	53RF20
24"	3"	—	—	—	487R41	—	—
24"	4"	—	38WF27	—	—	—	—
36"	5"	1XJZ2	38WF28	6A654	487R45	—	53RF21
48"	6"	6ATY3	44ZJ68	4NV22	487R46	—	53RF22
Straight Pipe Wrench - Cast Iron							
6"	½"	39CG46	—	—	—	—	—
6"	¾"	—	3R411	1XDY9	487R34	—	—
8"	1"	3LY96	3R412	4A497	487R35	—	—
8"	1½"	—	—	—	—	53DU62	—
10"	1½"	6ATY7	3R413	4A498	52XH81	—	—
10"	1⅞"	—	—	—	—	53DU63	—
12"	2"	3LY98	3R414	4CW42	52XH82	—	—
12", 18"	2", 2½"	4PL94	—	—	—	—	—
12"	2⅜"	—	—	—	487R38	—	—
14"	2"	3LY99	3R415	4A499	52XH83	—	53RF12
14"	2⅜"	—	—	—	—	53DU64	—
18"	2½"	4YR93	—	4A500	52XH84	—	53RF13
18"	3"	—	—	—	—	53DU65	—
18"	3½"	—	3R416	—	—	—	—
24"	2½"	—	—	—	52XH90	—	—
24"	3"	4YR94	—	4A501	487R36	—	53RF14
24"	4"	—	3R417	—	—	—	—
36"	5"	1XJZ3	3R418	4A502	487R42	—	53RF15
48"	6"	6ATY2	3R419	4NV21	487R43	—	—
60"	8"	39CG51	36P245	1XDY8	487R44	—	—
Straight Pipe Wrench - Cast Iron, Federal Specification GGG-W-651E							
10"	1½"	3LY97	—	—	—	—	—
Straight Pipe Wrench - Steel							
10"	1⅜"	—	—	—	—	53DU56	—
12"	1¾"	—	—	—	—	53DU57	—
24"	3"	—	—	—	—	53DU60	—
Swedish Pipe Wrench - Steel							
17"	2⅜"	—	—	—	—	53DU52	—



Strap Wrench No. 5PV87

RIDGID ROTHENBERGER WESTWARD GEDORE PROTO

Chain and Strap Wrenches

Chain Tongs—Turn large-diameter pipe during heavy-duty applications. Designed and sized to provide extra leverage. No. 4CPE4 has a single-end tong. Double-end jaw styles can be reversed.

Chain Wrenches—Double jaw provides ratchet-like action in either direction.

Strap Wrenches—RIDGID® tools have a woven nylon polyurethane-coated strap. Westward® tools have a reinforced neoprene rubber strap.

Universal Chain Wrench—Forged steel handle has deep milled teeth. 6200-lb. chain capacity.

Pipe Capacity	Overall Length	Brand	Item No.
Chain Tongs - Iron Handle Material			
1½ in to 8 in	50 in	RIDGID	4CPE5
2 in to 12 in	64 in	RIDGID	4CPE6
4 in to 18 in	87 in	RIDGID	4CPE4
Chain Wrenches - Alloy Steel Handle Material			
⅛ in to 4 in	12 in	Rothenberger	53RF08
⅛ in to 6 in	45 ¼ in	Rothenberger	53RF09
⅛ in to 8 in	50 in	Rothenberger	53RF10
⅛ in to 12 in	64 in	Rothenberger	53RF11
2 in to 5 in	14 in	RIDGID	4CW47
2 in to 4 in	12 in	Westward	39CG43
2 in to 4 in	12 in	RIDGID	3KHC2
2½ in to 5 in	18 in	RIDGID	4CW48
3 in to 5 in	24 in	RIDGID	1EZ14
3 in to 5 in	24 in	Westward	1XJZ4
4½ in to 7½ in	36 in	RIDGID	1XDY7
Chain Wrenches - Cast Iron Handle Material			
2½ in to 4½ in	36 in	Westward	39CG53
Replacement Strap			
5 in	29 ¼ in	RIDGID	4CPE1
Strap and Fittings Wrenches - Aluminum Handle Material			
⅛ in	12 in	Rothenberger	53RF26
⅛ in, 8 in	11 ¾ in	Gedore	425R41
⅛ in, 8 in	12 in	Rothenberger	53RF27
Strap Wrenches - Aluminum Handle Material			
⅛ to 5"	—	RIDGID	4CW49
2 in	—	RIDGID	4A505
5"	—	RIDGID	4CPE2
Strap Wrenches - Polypropylene Handle Material			
3 ½ in	25 in	Westward	5PV87
10 in	44 ½ in	Westward	5PV88
Strap Wrench Set - Polypropylene Handle Material			
3 ½ in, 10 in	25 in, 44 ½ in	Westward	5PV89
Universal Chain Wrench - Alloy Steel Handle Material			
⅛ in to 4 in	16 ½ in	Proto	3R410

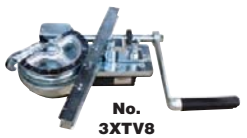


No. 53AY75

Cordless Press Tools

FORCE LOGIC™ delivers enhanced productivity by allowing you to cut, fasten, and connect using one interchangeable battery platform. Compact and light, these tools work on most major brands of fittings. In-line design provides access to nearly anywhere you can fit your arm. REDLINK™ technology lets the tool automatically complete each press once engaged. A green light indicates full cycle has been completed. Reliable, rechargeable REDLITHIUM™ battery provides outstanding run time. Brushless motor for 50,000 cycle calibration intervals and faster cycle time. Include 2 batteries and charger. Nos. 53AY77 include 3 attachable jaws. No. 53AY75 includes 5 attachable jaws.

Press Tool Jaw/ Pipe Capacity	Crimping Force	Tool Length	Item No.
M12™ FORCE LOGIC™			
½" to 1¼"	2.7 tons	12 39/64"	53AY76
½" to 1¼"	2.7 tons	12 39/64"	53AY77
M18™ FORCE LOGIC™			
½" to 4"	3.6 tons	14⅛"	53AY74
½" to 4"	3.6 tons	14⅛"	53AY75


No. 3XTV8


No. 5MLV4


No. 3CYP1



No. 20UX03


No. 3CYU6


No. 3CYV2

Imperial RIDGID ROTHENBERGER WESTWARD GENERAL BAILEIGH

Tubing Benders

Geared—For bending aircraft-grade stainless steel and all other metal tubing of bending temper. Calibrated angle markings from 0° to 180°. Worm gear with 50:1 ratio. Crank handle has revolving hand grip.

Ratcheting—High-geared mechanical ratios to bend heavy-wall steel tube, stainless steel tube, and hard copper water tube (types K and L). Produce uniform bends up to 180°. Calibrated at 15° from 0° to 180°.

Compound—Bend copper, brass, steel, and aluminum thin-wall tubing, soft wire, and rod 180° in a single action. Calibrated angle markings from 0° to 180° for left, right, and offset bends. 90° start angle.

Lever-Type—Make smooth, tight radius bends in soft copper and aluminum tubing up to 180°. Open side slips over tube at any point. No scoring or flattening of tubing. Calibrated to show angle of bend. Nonslip grip handle.

Foot-Operated—No. 20UX03 programmable tube bender shapes material while reducing delays with extremely fast automatic bending. Runs on 220V with single-phase power and bends up to 2.5" tubing and 2' schedule 40 pipe. Stores up to 170 internal programs of 10 bends each and has unlimited storage memory. Touch screen or foot-petal operates the bender when not in manual mode. No. 20UX05 low pressure system runs on 220V with 3-phase power bends pipe up to 206° without stopping or ratcheting. Foot-operated petal lets you control the bender at variable speed. Feature digital auto-stop lets you choose the desired bend degree for easy and accuracy. Handles a maximum capacity of 3" schedule 40 pipe, 3" square, and 3.5" round tube.

Outside Dia. Tubing (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Geared				
¼, 5⁄16, ⅜, ½, ⅝, ¾	16	Imperial	600-F	**3XTV8**
Ratcheting				
⅛	28	Ridgid	35180R	**1VTT8**
¾	28	Ridgid	35175	**1VTT7**
⅝	22	Ridgid	35170	**1VTT6**
⅜, ½, ⅝, ¾, ⅞	15	Rothenberger	23022X	**5MLV4**
¼, 5⁄16, ⅜, ½	10	Rothenberger	24134	**6XGA9**
Compound				
¼, 5⁄16, ⅜	11¼	Westward	—	**3CYP1**
¼, 5⁄16, ⅜	8 5⁄16	Westward	—	**3CYT2**
3⁄16, ¼, 5⁄16, ⅜	11¼	General	153	**3ZH01**
3⁄16, ¼, 5⁄16, ⅜	10½	Imperial	470-FHC	**3XTW3**
Lever-Type				
¾	32¼	Imperial	364-FHA-12	**3XTW5**
⅝	29	Imperial	364-FHA-10	**3XTW4**
½	19	Imperial	364-FHB-08	**5MK30**
½	19	Westward	—	**3CYU9**
½	17	Ridgid	36132	**4A522**
½	16⅛	Ridgid	38048	**6PFF2**
½	18½	Imperial	364-FHA-08	**40AW07**
½ to ⅞	30	Rothenberger	90614	**53RE82**
⅜	16⅛	Ridgid	38043	**6PFF1**
⅜	14	Imperial	364-FHB-06	**5MK29**
⅜	12	Rothenberger	25151	**53RE81**
⅜	14	Westward	—	**3CYU8**
⅜	13	Ridgid	36097	**4A521**
⅜	13½	Imperial	364-FHA-06	**40AW05**
5⁄16	10	Imperial	364-FHB-05	**5MK28**
5⁄16	7½	Westward	—	**3CYU7**
¼	16⅛	Ridgid	38033	**6PFF0**
¼	10	Imperial	364-FHB-04	**5MK27**
¼	9	Ridgid	36122	**4A520**
¼	7½	Westward	—	**3CYU6**
¼, 5⁄16, ⅜	10½	Westward	—	**3CYV2**
¼, 5⁄16, ⅜	8½	Ridgid	44852	**1ATH9**
3⁄16, ¼, ⅜, ½	—	Imperial	370-FH	**3KE42**
3⁄16, ¼, 5⁄16, ⅜	8¼	Imperial	368-FH	**6X861**
Spring Tube Bender Set				
¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	10½	Westward	—	**3CYP3**
Accessories				
Tripod Tube Bender Stand, For Use With 6XGC0		Rothenberger	58182	**6XGC1**

Outside Dia. Tubing (in.)	Bend Angle (Deg.)	Centerline Bend Radius	Markings	Type	Brand	Mfr. Model	Item No.
Foot Operated							
2½	0 to 180	9"	Digital Read Out From 0° to 180°	Electric	Baileigh Industrial	RDB-250	**20UX03**
3	0 to 180	20"	Digital Read Out From 0° to 180°	Hydraulic	Baileigh Industrial	RDB-500	**20UX05**


No. 4A518


No. 3CYR7


No. 3CYP5

Flaring and Swaging Tools

Imperial WESTWARD RIDGID ROTHENBERGER Milwaukee

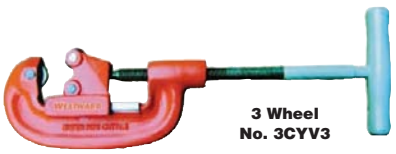
Flaring Tools—Use single flare tools in most non-high pressure applications. Use double flare tools in high-pressure applications such as automotive, AC, and refrigeration.

Swaging Tools—For joining copper and other thin-walled tubing. Eliminate need for coupling. Precision tapered. Hex body for use with wrench.

Tube Expander Kits—No. 4A524 creates joints in soft copper, aluminum, and soft steel tube. Eliminates fitting and reduces solder consumption. Can be used to recalibrate damaged tubing. Comes in plastic case. No. 38EY29 is for expansion of PEX-a and ProPEX® tubing for termination to fitting. Built-in auto rotation provides accurate, one-handed expansion, precision expansion with rapid return, integrated magnesium housing, and D-handle design for durability. Tool-free head change compatible with Milwaukee® and Uponor heads.

Description	Cap. Tubing O.D. (in.)	Overall Length (in.)	Brand	Item No.
Combination Kits				
Flaring and Swaging Kit 37° and 45° Single, 45° Double	Single Flare ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾, Double Flare 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾, Swage 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	11½	Imperial	**3XTW2**
Flaring & Swaging, 45° Single	Flares ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾; Swages 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	7	Imperial	**1A217**
Flaring & Swaging, 45° Single	Flares ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾; Swages 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	10 13⁄16	Westward	**3CYU4**
Flaring & Cutting, 45° Single and Double	Single Lap Flares 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝; Double Lap Flares 3⁄16, ¼, 5⁄16, ⅜, ½; Cuts ⅛ to 1⅛	6¼	Ridgid	**4A518**
Flaring & Cutting, 45° Double	3⁄16, 5⁄16, ¼, ⅜, 7⁄16, ½, ⅝	7	Westward	**3CYT7**
Flaring Tools				
Flaring and Reaming Kit, 37°	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	10⅛	Imperial	**3XTV9**
Large Flaring Tool, 37°	¾, ⅞, 1, 1 ¼	11⅞	Imperial	**3XTW1**
Heavy-Duty Flaring Tool, 37°	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	6	Imperial	**5MK31**
Double Flaring Tool, 45°	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	11 13⁄16	Westward	**3CYN8**
Self Adjusting Flaring Tool, 45°	3⁄16 to ⅝ 4.7 to 16mm	—	Imperial	**3KE47**
Adjustable Flaring Tool, 45°	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	5⅛	Westward	**3CYR6**
Flaring Tool, 45° Single Lap	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	5⅞	Westward	**3CYR7**
Flaring Tool, 45° Single Lap	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	6¼	Ridgid	**1ATK0**
Flaring Tool, 45° Single Lap	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	7	Imperial	**6X859**
Flaring Tool, 45° Single Lap	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	7	Westward	**3CYV1**
Flaring Tool, 45° Single Lap	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	7⅛	Westward	**3CYP4**
Flaring Tool, 45° Single Lap	¼, ⅜, ½, ⅝	7½	Ridgid	**4A519**
Flare and Precision Socket Tool, 45°	3⁄16 to ⅝	9½	Rothenberger	**53RE80**
Compact Flaring Tool, 45°	3⁄16 to ⅝	9½	Rothenberger	**53RE78**
Swaging Tools				
Swaging Tool	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	5¼	Imperial	**5MK32**
Swaging Tool	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	6 5⁄16	Westward	**3CYR8**
Swaging Tool Set, 4 Pc.	¼, ⅜, ½, ⅝	4⅛	Ridgid	**4A523**
Swaging Tool Set, 4 Pc.	¼, ⅜, ½, ⅝	3 3⁄16	Westward	**3CYP5**
Tube Expander Kits				
Single Action, 4 Pc.	⅜, ½, ¾, 1	15¼	Ridgid	**4A524**
Cordless Expansion Tool Kit	⅜ to 1	7½	Milwaukee	**38EY29**
Accessories				
Double Flare Attachment, Used with Mfr. No. 26033 for Double and 180° Flaring of Copper, Brass, Aluminum, and Precision Steel Tubing, 1⁄16",1/4",5/16",3/8",1/2" O.D. Flare			Rothenberger	**53RE79**


Ratcheting
No. 3ZJG1


3 Wheel
No. 3CYV3


Dual Handle
No. 3CYT8


U-Shaped Handle
Ratcheting
No. 1VXH1


Knob
No. 425R21

ROTHENBERGER pipetool technologies at work GRIP-ON TOOLS GEDORE WESTWARD
WHEELER REX SuperiorTool RIDGID LENOX GREENLEE

Pipe Cutters

Description	Cutting Cap.	Body Material	Overall Length	Brand	Item No.
Chain Type					
Manual	1" to 2"	Chrome Plated	11"	Rothenberger	**6XGA7**
Ratcheting Pipe Cutter	Up to 4½"	—	12"	Grip-On	**5MK42**
	Up to 6⁵⁄₆₄"	Steel	22½"	Gedore	**425R16**
PVC and Plastic					
Manual	2"	—	18"	Westward	**10D468**
Ratcheting	6⁵⁄₁₆"	Plastic	19⅜"	Rothenberger	**45KP17**
	⅛" to 1⅝"	Alum.	8¾"	Wheeler-Rex	**425W22**
	⅛" to 2⁷⁄₁₆"	Alum.	13"	Wheeler-Rex	**425W23**
	⅛" to 2½"	Alum.	10"	Superior Tool	**29JA12**
	½" to 2⅜"	Alum.	10"	Ridgid	**3ARC4** *
	¾" to 1¼"	Alum.	10½"	Gedore	**425R39**
	1" to 2¾"	Alum.	14"	Gedore	**425R40**
	1" to 2½"	Die Alum. Alloy	5"	Westward	**1YNA7**
	1" to 1⅝"	Die Alum. Alloy	5"	Westward	**1YNA6**
	1⅝"	Alum.	9"	LENOX	**3ZJG1** *
	2⅜"	Alum.	12½"	LENOX	**3ZJG2** *
	Up to 1¼"	—	8"	Greenlee	**4CN03**
	Up to 1⅝"	Alum.	8½"	Ridgid	**2DPH3** *
	Up to 2"	—	18"	Greenlee	**5LE31**
Scissor Style	⅛" to 1⅜"	Alum.	8½"	Ridgid	**1XDX7** *
	⅛" to 1⅝"	Plastic	8¾"	Ridgid	**2CVH7** *
Shear-Cut	1"	Plastic	8"	Rothenberger	**53RF07**
	1¼"	Steel	7"	Rothenberger	**53RF06**
	1⁵⁄₁₆"	Alum.	8½"	LENOX	**3ZJF9** *
	1⅝"	Plastic	8"	Rothenberger	**53RF03**
	1¾"	Magnesium	9⁴³⁄₆₄"	Gedore	**425R37**
	2"	Plastic	10½"	Rothenberger	**53RF04**
	2½"	Magnesium	11"	Gedore	**425R38**
	2½"	Plastic	11¼"	Rothenberger	**53RF05**
	Up to 3", Up to 2½" ,Schedule 40"	—	19"	Rothenberger	**1FET2**
Screw-Feed					
Cuts Cast Iron, Steel, Stainless Steel	⅛" to 2"	Steel	15"	Gedore	**425R17**
	1¼" to 4"	Steel	20½"	Gedore	**425R18**
Cuts Cast Iron, Steel, Stainless Steel, 3 Wheels	⅛" to 2"	Steel	15"	Gedore	**425R19**
	1¼" to 4"	Steel	20½"	Gedore	**425R20**
Cuts Copper, Aluminum, Brass, 3 Wheel	⅛" to 2"	Alum.	19¾"	Westward	**3CYV3**
Cuts Copper, Aluminum, Brass, Steel, 2 Wheel	½" to 2"	—	14"	Westward	**4YR88**
Cuts Copper, Brass, PVC, Plastic, Thin Walled Steel	⅛" to 1¼"	Cast Zinc	7"	Gedore	**425R31**
	⅛" to 1¼"	Magnesium	6⅓"	Gedore	**425R30**
Pipes, Composite, Knob	½" to 2½"	Cast Zinc	9⁴³⁄₆₄"	Gedore	**425R32**
Cuts Copper, Brass, Thin Walled Steel Pipes, Knob	⅛" to ⅝"	Cast Zinc	2"	Gedore	**425R33**

Description	Cutting Cap.	Body Material	Overall Length	Brand	Item No.
Cuts Plastic, Composite, Knob	¼" to 3"	Alum.	9⁴³⁄₆₄"	Gedore	**425R34**
	2" to 5"	Alum.	13½"	Gedore	**425R35**
Cuts Stainless Steel, 3 Wheel	⅛" to 2"	Iron	18"	Ridgid	**4A506** *
Cuts Stainless Steel, 3 Wheel, Dual Handle	2" to 4"	Iron	25½"	Ridgid	**4CW51** *
Cuts Stainless Steel, Dual Handle, 4-Wheel	2½" to 4"	Iron	26½"	Ridgid	**4CW53** *
Cuts Stainless Steel, Heavy-Duty, 4-Wheel	¾" to 2"	Iron	18"	Ridgid	**4CW52** *
Cuts Stainless Steel, Knob	⅛" to 1¼"	Magnesium	6⅓"	Gedore	**425R21**
	⅛" to 1¾"	Magnesium	7"	Gedore	**425R22**
	⅛" to 1¼"	Zinc	6½"	Gedore	**425R24**
	⅛" to 4³⁄₆₄"	Zinc	2"	Gedore	**425R26**
	¼" to 3"	Alum.	9⁴³⁄₆₄"	Gedore	**425R23**
	½" to 2½"	Zinc	10"	Gedore	**425R25**
Cuts Steel, Dual Handle	Up to 4"	Ductile Iron	35½"	Westward	**3CYT8**
Cuts Steel, Ductile Iron, 3 Wheel, Dual Handle	1" to 3"	Iron	25½"	Ridgid	**4CW50** *
Soil Pipe					
For Use With ½" Square Drive Impact Driver or Ratchet	Up to 8"	—	18"	Ridgid	**21XZ31**
One Stroke	1½" to 6"	Forged Steel	40"	Ridgid	**437L08**
Ratcheting	1½" to 6"	Forged Steel	33¼"	Ridgid	**6YJ36**
	No Hub 1½" to 6"	Steel	24⁵⁄₁₆"	Ridgid	**5EPP7**
U-Shaped Handle Ratcheting	1½" to 6"	Forged Steel	17"	Ridgid	**1VXH1**

Description	Brand	Mfr. Model	Item No.
Replacement Cutter Wheels			
For Copper, Brass, Aluminum Tubing, Thin Wall Conduit, Steel and Iron Pipe	Westward	—	**5MZ34**
For Steel and Ductile Iron, Heavy-Duty	Ridgid	33100	**4CW58**
For Steel and Ductile Iron, Heavy-Duty	Ridgid	33105	**4CW59**
For Steel and Ductile Iron	Ridgid	33120	**4CW61**
For Steel and Ductile Iron	Ridgid	33125	**4CW62**
For Steel and Ductile Iron	Ridgid	44185	**4CW85**
For Stainless Steel	Ridgid	33130	**4NV23**
For Stainless Steel	Ridgid	44190	**4CW86**
For Stainless Steel, Heavy-Duty	Ridgid	33110	**4CW60**
Replacement Cutter Blades			
Chain Assembly for No. 6YJ36, Soil Pipe Cutter	Ridgid	34575	**1VTT5**
For No. 3ARC4 Plastic Tubing Cutter	Ridgid	30093	**3ARC5**
For No. 2DPH3 Plastic Tubing Cutter	Ridgid	27858	**2DPH4**
For No. 3ZJF9 PVC Cutter	LENOX	12126S2B	**3ZJG4**
For No. 3ZJG1 PVC Cutter	LENOX	12127R1B	**3ZJG5**
For No. 3ZJG2 PVC Cutter	LENOX	12128R2B	**3ZJG6**

*** Replacement Wheels available on Grainger.com®.***

Description	HP	Max. Pressure (psi)	Flow Rate	RPM	Torque	Item No.
Portable Valve Exercisers						
With Forward Only Counter	13	2000	8 gpm	60	600 ft. lb.	**38L099**
With Forward/Reverse Counter	13	2000	8 gpm	60	600 ft. lb.	**38L101**
Valve Exerciser Power Drive						
115V w/Counter	½	—	—	22	250 ft. lb.	**38L102**
Rising Stem Valve Operator						
115V w/Counter, Clutch and Hand Wheel Adapter	½	—	—	22	200 ft. lb.	**38L103**
Hydraulic Power Pack						
2-Wheeled Cart w/Pneumatic Tires And Cage	6.5	1200	6 gpm	—	—	**38L090**

Description	Item No.
Hydraulic Snap Pipe Cutters	
2 to 6" Cast Iron Water Main, 8700 to 9000 psi	**38L083**
4 to 12" Cast Iron Water Main, 5700 to 6000 psi	**38L084**
6 to 18" Cast Iron Water Main, 9000 to 9700 psi	**38L085**
6 to 36" Soil Pipe, 900 to 9700 psi	**38K992**
4 to 24" Soil Pipe, 5700 to 6000 psi	**38K989**
Glass Tube Cutters	
¼ to ¾"	**38L091**
¼ to 1"	**38L092**
¼ to 1½"	**38L093**
Pipe Scrapers	
3 to 12"	**38L086**
12 to 36"	**38L087**
Copper Pipe Shut Off Tools	
¾ to 1"	**38L094**
½ to 1"	**38L095**
1¼ to 2"	**38L096**

Description	Item No.
Plastic Pipe Shut Off Tools	
⅜ to 2", For Water Lines	**38L097**
⅜ to 2", For Gas Lines	**38L098**
Hydrant Wrench	
Fits Pentagon Nuts Up to 1¾", Square Nuts Up to 1¼"	**38L111**
Sockets	
¾", 6-pt. Deep	**38L105**
⅞", 6-pt. Deep	**38L106**
¹⁵⁄₁₆", 6-pt. Deep	**38L107**
1¹⁄₁₆", 6-pt. Deep	**38L108**
1¼", 6-pt. Deep	**38L109**
1⅛", 6-pt. Deep	**38L110**
4-Pc. Set, ¹⁵⁄₁₆ to 1¼", 6-pt. Deep	**38L104**
Valve Exerciser Power Drive	
½ HP, 250 ft. lb. Torque	**38L053**
Bypass Valve Kit	
Male and Female Flat Faced Quick Disconnects, Max. Flow 30 gpm	**38L012**


No. 38L099


No. 38L111

Valve Exercisers and Pipe Cutters

WHEELER REX

Portable Valve Exercisers—Frame is designed to absorb all torque to help protect the operator. With fingertip controls, digital counter, and 2" ball hitch coupling. Auxiliary connections allow use as a hydraulic power source for other tools.



Manual Tube Cutters

- For additional tube cutter replacement wheels, see Grainger.com®

Midget—Use in restricted spaces on small-dia. hard and soft copper, aluminum, brass, and plastic.

Quick-Acting Release—For copper, aluminum, and brass.

Ratcheting—Cut copper, brass, stainless steel, plastics, and PVC. Facilitates work in tight areas.

Screw Feed and Enclosed Screw Feed—Enclosed screw feed cutters for thin-wall conduit have grooved rolls for close-to-flare cuts, fold-away reamer, and spare cutter. Hi-Duty® tools are for copper, brass, aluminum, and thin-wall steel conduit. No. 6X858 also cuts steel and stainless steel.

Telescoping—Feature grooved rollers with flare cutoff groove and fold-away reamer. Enclosed-feed cutting action for aluminum and steel with a special cutting wheel for copper.

Description	Cutting Cap.	Overall Length	Brand	Item No.
Midget				
Big-Imp® Screw-Feed	⅜" to 1⅛"	2¹¹⁄₁₆"	Imperial	**3KE44**
Enclosed Feed	⅛" to ⅞"	2¹³⁄₁₆"	Westward	**3CYU2**
	⅛" to ⅝"	4"	Westward	**3CYT4**
	⅛" to 1⅛"	6⁵⁄₁₆"	Westward	**3CYT1**
IMP® Enclosed Feed	⅛" to ⅝"	1¾"	Imperial	**6X857**
Midget, Feed Screw	⅛" to ⅝"	2⅛"	Ridgid	**1ATH6**
	³⁄₁₆" to 1⁵⁄₁₆"	2⁹⁄₁₆"	Ridgid	**4A513**
	¼" to 1⅛"	3⅛"	Ridgid	**1ATH7**
Self-Feeding	¼" to 1⅛"	2¾"	Ridgid	**6XW70**
PVC and Plastic				
M12™ PVC Cutter Tubing & Hose Cutter	—	—	Milwaukee	**4PKV3**
PEX Tubing Cutter	1⁵⁄₁₆"	8½"	LENOX	**3ZJF8**
PVC Cutter	⅛" to 1⅝"	8¼"	General	**3ZG72**
	⅛" to 1⅝"	8⁴⁵⁄₆₄"	Westward	**3CYN7**
Quick Acting, PEX Cutter	½"	4"	Rothenberger	**4ETC3**
	1"	4"	Rothenberger	**4ETC5**
Quick Acting				
For Copper, Aluminum, Brass	¼" to 1⅝"	8³⁄₁₆"	Ridgid	**4A514**
	1¼" to 3½"	9½"	Ridgid	**1XDY4**
	1⅞" to 4½"	16⅜"	Ridgid	**4A516**
	4" to 6⅝"	15¾"	Ridgid	**1XDY6**
For Copper, Aluminum, Brass, Plastic, CPVC, PEX, PE, PB	⅛" to 1¼"	6¾"	Ridgid	**1XDY1**
For Copper, Aluminum, Brass, Steel	¼" to 2⅝"	12"	Ridgid	**4A515**
For Copper, Aluminum, Steel	¼" to 2⅝"	8⁵⁄₁₆"	Westward	**3CYR5**
	¼" to 2"	9½"	Westward	**3CYT5**
	¼" to 2⅝"	11¹³⁄₃₂"	Westward	**3CYT6**
For Corrugated Gas Tubing (CSST)	⅜" to 1"	9"	Ridgid	**4PCE2**
For CPVC, PEX, PE, PB	1" to 3"	9½"	Ridgid	**1XDY3**
For CPVC, PEX, PE, PB, Plastic	1½" to 4"	12½"	Ridgid	**1XDY5**
For Plastic	¼" to 2"	8¾"	Ridgid	**1XDY2**
For Stainless Steel	¼" to 1⅜"	6¼"	Ridgid	**4CPC2**
Ratcheting				
Adjust-o-matic™ Quick Acting Ratcheting	⅜" to 2⅝"	7¾"	Imperial	**3KE46**
Ratcheting	⅛" to ⅜"	4"	Ratch Cut	**5MK96**
	⅛" to ⅝"	5"	Imperial	**3XTW6**
	³⁄₁₆" to 1⅛"	7"	Ratch Cut	**5MK94**
	³⁄₁₆" to 1⅛"	7½"	Westward	**3CYP9**
Self-Feeding Ratcheting	¼" to 1⅛"	8"	Ridgid	**5EPR2**
Screw Feed and Enclosed Screw Feed				
Enclosed Feed	⅛" to 1⅛"	8⁵⁄₁₆"	Westward	**3CYR9**
	¼" to 2⅜"	11"	Ridgid	**4CW57**
	¼" to 2½"	11¼"	Westward	**3CYV6**

Description	Cutting Cap.	Overall Length	Brand	Item No.
Hi-Duty® Enclosed Feed	⅛" to 1⅛"	4¹⁵⁄₁₆"	Imperial	**6X858**
	¼" to 1⅝"	5½"	Imperial	**3KE43**
Quick Acting, Enclosed Feed Screw	⅛" to 1⅛"	4⅞"	Ridgid	**1ATH8**
Screw Feed	⅛" to ⅜"	2"	Rothenberger	**53RE96**
	⅛" to ⅞"	2¾"	Rothenberger	**53RE98**
	⅛" to 1⅛"	3¼"	Rothenberger	**53RE99**
	⅛" to 1⅛"	5¼"	Rothenberger	**53RE95**
	⅛" to 1"	6"	Ridgid	**4CW54**
	⅛" to 1⅛"	6"	Proto	**3R304**
	⅛" to 1⅛"	8⁵⁄₁₆"	Westward	**3CYU1**
	³⁄₁₆" to 1⅛"	6½"	Ridgid	**5A193**
	³⁄₁₆" to 1⅛"	8½"	Ridgid	**1VTU2**
	¼" to ⅞"	2¼"	Rothenberger	**53RE97**
	¼" to 2⅜"	4½"	Wheeler-Rex	**425W21**
	¼" to 1⅝"	6"	Rothenberger	**53RE94**
	¼" to 1⅜"	6"	Rothenberger	**53RF01**
	¼" to 1⅝"	6½"	Rothenberger	**53RF02**
	⅝" to 2⅛"	10½"	Ridgid	**4CW55**
	1" to 3⅛"	12½"	Ridgid	**4CW56**
Telescoping				
Quick Acting Enclosed Feed	³⁄₁₆" to 1¼"	5¹³⁄₆₄"	Westward	**3CYT3**
Tubing Cutter Set				
Copper, Manual	½", ¾", 1"	3", 3½", 4"	LENOX	**22FE98**

Description	For Use With	Brand	Item No.	Pkg. Qty.
Replacement Cutting Wheels				
General Purpose	Mfr. No. 120, 123R, 124, 125, 126, 128, 129X, 135	General	**3ZH47**	2
Iron Pipe	Mfr. No. 120, 125, 126, 127, 129X	General	**3ZH48**	1
Aluminum and Copper	4CW54, 5A193 Tube Cutter	Ridgid	**4CW63**	1
	1XDY6, 4A516, 4CW56	Ridgid	**6YJ37**	1
	Copper, Aluminum	Ridgid	**4CW65**	1
Aluminum, Copper and Brass	3CYT4 Tubing Cutter	Westward	**3CYU3**	2
	5MK94 Pipe Cutter	Ratch Cut	**5MK95**	2
	5MK96 Pipe Cutter	Ratch Cut	**5MK97**	2
Stainless Steel	1VTU2 Tubing Cutter	Ridgid	**1VTU3**	1
	Mfr. No. 35S/29963	Ridgid	**4CPC3**	2
Steel and Stainless Steel	4CW55 Tube Cutter	Ridgid	**4CW64**	1
	Steel, Stainless	Ridgid	**4CW66**	1
Plastic	3CYR1 Ratcheting Tubing Cutter	Westward	**3CYR2**	2
	3CYP9 Ratcheting Tubing Cutter	Westward	**3CYR3**	2
PEX	Mfr. No. 12121S1	LENOX	**3ZJG3**	1
Ratchet Handle				
Ratchet Handle for No. 5EPR2	Mfr. No. 32573, 118/86127, 101/40617	Ridgid	**5EPR3**	1



Pipe- and Tube-Cutting Machines

EZ Cutter—Cuts copper, brass, aluminum, thin-walled steel, and plastic-coated pipe. Include foot switch and pipe cutter wheel. No. 6RRU6 also includes 2 roller supports and 2 stationary supports.

Portable Electric Pipe Cutter—Cuts Schedule 40 steel pipe, galvanized pipe, and rigid conduit. 2 included ball transfer stands keep pipe level during cutting. Requires Model 700 Power Drive threader No. 1AC02, sold separately on pages 872.

Hydraulic-Powered Pipe Cutters—Cut larger dia. cast iron, tile and concrete pipe. Like the hand-operated cutters, hydraulic cutters are not rotated around pipe. Remotely operated hydraulic pumps provide the required power. A 2"–3" minimum clearance required to wrap cutter chain around pipe. Cutters include pump, hose and case.

Copper Tube Cutting Machine—Cuts, deburrs, and cleans copper tube and fittings. Includes reamer, 6 cleaning brushes, storage rack, and quick-change collet. Can be mounted on tripod stand No. 1VTV2, sold separately on page 873.

M12™ Cordless Copper Tube Cutter—Cuts copper tubing, wet or dry. Runs on a 12V lithium ion battery; fuel gauge displays the remaining run time. Includes 1 battery, charger, and case.

Transport Cart—Engineered to help move compatible electric pipe cutters to and from the jobsite. 250-lb. load capacity. 14¾" W x 15" D x 42¾" H".

Description	Brand	Mfr. Model	Item No.
Pipe and Copper Tube Cutting Machines			
EZ Cutter, Pipe ⅝" to 4½"	Rothenberger	00032	**6RRU5**
EZ Cutter, Pipe ⅝" to 4½"	Rothenberger	00033	**6RRU6**
Portable Electric Pipe Cutter			
Pipe 2½" to 8"	Ridgid	50767	**2RPC4**
Hydraulic Powered Pipe and Copper Tube Cutting Machines			
2 to 8" Soil Pipe	Wheeler-Rex	2990-8	**38K983**
2 to 10" Soil Pipe	Wheeler-Rex	2990-10	**38K984**
2 to 12" Soil Pipe	Wheeler-Rex	2990-12	**38K985**
2 to 15" Soil Pipe	Wheeler-Rex	2990-15	**38K986**
4 to 15" Soil Pipe	Wheeler-Rex	3890-15	**38K987**
4 to 18" Soil Pipe	Wheeler-Rex	3890-18	**38K988**
6 to 20" Soil Pipe	Wheeler-Rex	5590-20	**38K990**
6 to 24" Soil Pipe	Wheeler-Rex	5590-24	**38K991**
Pipe and Copper Tube Cutting Machines			
Copper Tube Cutting Machine, Tube ½" to 2"	Ridgid	93492	**3FE66**
M12™ Tube Cutters			
½" to 1⅛"	Milwaukee	2471-21	**2PYX8**
Pipe and Tube Cutting Machine Accessories			
Transport Cart for No. 2RPC4 Pipe Cutter	Ridgid	54397	**2RPC5**
Replacement Cutting Wheel for No. 2RPC4	Ridgid	50812	**2RPC6**
Replacement Cutting Wheel for Nos. 5GUY3, 2PYX8	Milwaukee	48-38-0010	**2RFR8**
Replacement Pipe Cutter Wheel for Nos. 6RRU5, 6RRU6	Rothenberger	00034R	**6XGA4**
Replacement Copper Tube Cutter Wheel for Nos. 6RRU5, 6RRU6	Rothenberger	00035	**6XGA5**
Replacement Soil Pipe Cutter Wheel for Nos. 6RRU5, 6RRU6	Rothenberger	00535	**6XGA6**
Pipe Cutter Stand for Nos. 6RRU5 and 6RRU6	Rothenberger	00037	**6XGA3**



Tubing Reamer
No. 21XZ32



Hand Reamer/Countersink
No. 3ZH14



Screwdriver Handle Reamer
No. 3ZG96



Spiral Ratchet Pipe Reamer
No. 3CYV4



Pencil-Shaped Deburring Tool
No. 1FET3

RIDGID Imperial WESTWARD GENERAL GEDORE ROTHENBERGER GREENLEE

Reamers, Deburrers, and Brushes

REAMERS AND COUNTERSINKS

Remove burrs from cut pipe, tubing, and conduit, and enlarge and countersink holes in sheet metal, plastic, and other materials.

DEBURRING TOOLS

Hole Deburring Tool—Deburrs up to 10-ga. mild steel, stainless steel, copper, brass, and aluminum.

Rotary-Style Deburring Tool—Rotary-style blade removes burrs from tube I.D., holes, and edges. 2 heavy-duty blades included. Ergonomic handle can store extra blade.

Pencil-Shaped Deburring Tool—For deburring aluminum, copper, brass, steel, and plastic.

Description	Overall Length (in.)	For Material Thickness	Brand	Mfr. Model	Item No.
Reamers and Countersinks					
Inner-Outer Reamer	2⅜	¼ to 1¼	Ridgid	29983	**3ARC7**
Inner-Outer Reamer	3½	½ to 2"	Ridgid	29993	**3ARC6**
Inner/Outer Tubing Reamer SS	2¼	3⁄16 to 1½"	Imperial	208-FSS	**40AW16**
Inner/Outer Tubing Reamer	3	3⁄16 to 1½"	Imperial	208-F	**3KE45**
Inner/Outer Tubing Reamer	3	¼ to 1½	Westward	—	**3CYU5**
Stainless Steel Tubing Reamer	4	—	Ridgid	43573	**21XZ32**
Hand Reamer/Countersink	4½	⅛" to ¾"	Westward	—	**3CYP2**
Hand Reamer/Countersink	4⅝	Up to ¾"	General	196	**3ZH14**
Hand Reamer	8½	⅛ to ⅜"	Westward	—	**3CYP6**
T-Handled Reamer	5¾	⅛ to ½"	General	130	**3ZG95**
Screwdriver Handle Reamer	6½	⅛ to ⅜"	General	131	**3ZG96**
Spiral Ratchet Pipe Reamer	20¼	¼ to 2"	Ridgid	34955	**4A512**
Spiral Ratchet Pipe Reamer	21½	¼ to 2"	Westward	—	**3CYV4**
Deburring and Reaming, 3 Hollow Ground Cutters	1¾	½" to 3 11⁄32"	Gedore	232001	**425R27**
Deburring and Reaming, 40 Cutting Edges	2⅛	½" to 2⅛"	Gedore	232501	**425R29**
Deburring and Reaming, 40 Cutting Edges	3⅛	½" to 3 11⁄32"	Gedore	232500	**425R28**
Deburring Tools					
Pipe with ⅛"-1-5/8" Outside Diameter, Steel, Copper, Aluminum	2	—	Rothenberger	11006	**53RE74**
Hole Deburring Tool	2½	Up to 10 ga.	Greenlee	11170	**4GB10**
Replacement Blades for No. 4GB10, Pk. of 3	—	—	Greenlee	11180	**4GB11**
Rotary Style Deburring Tool	7	—	Rothenberger	21655	**53RE75**
Rotary Style Deburring Tool	5¾	3⁄16" and Above	Imperial	210-F	**3XTW7**
Pencil Shaped Deburring Tool	6	—	Rothenberger	21660	**1FET3**

Description	Overall Length (in.)	Cap. (in.)	Brand	Mfr. Model	Item No.
Pipe and Fitting Brushes					
Inner/Outer Pipe Cleaning Brush	3¾	½	Westward	—	**3CYP7**
Inner/Outer Pipe Cleaning Brush	3¾	¾	Westward	—	**3CYP8**
Copper Pipe Cleaning Brush	7¾	½, ¾"	Ridgid	34142	**1VTT4**



No. 53RF07



No. 5KNX8



No. 5KNX9

ROTHENBERGER Malco

PEX II Wire Tools and Clips

This tool lets you layout an in-floor radiant heating system. It secures PEX (polyethylene cross-linked tubing) to a wire grid with propriety Malco® Clips. Features 25-clip capacity magazine. Smooth stapling mechanism quickly feeds and installs 12-ga. wire clips with a single one-handed pump of the ergonomic, nonslip handle. Wire Clips are for PEX tubing from ⅜" to ⅝" inside diameters. Heavy-duty clips will not jam, break, or damage PEX.

Description	Overall Length (in.)	Brand	Item No.
Shear-Cut	—	Rothenberger	**53RF07**
PEX to Wire Tool	10⅜	Malco	**5KNX8**
PEX to Wire Clips, PK of 500	1⅛	Malco	**5KNX9**



Telescoping Basin Wrench
No. 4A503



Pipe Extractor Set
No. 1VUV3



Internal Pipe Wrench Set
No. 3ZG99

RIDGID ROTHENBERGER GENERAL

Plumbing Specialty Hand Tools

Basin Wrench—Elongated shank reaches nuts under the faucet.

Soil Pipe Torque Wrenches—Preset to tighten 60 in.-lb. (No. 1XDZ7) and 80 in.-lb. (No. 1XDZ8).

Internal Pipe Wrenches—The 4-pc. set is ideal for installing and removing pipe nipples without denting or scratching the pipe surface.

Pipe Extractor Set—This 6-pc. set allows you to easily remove the broken threaded ends of pipe, pipe plugs, and fittings.

Item	Overall Length (in.)	Cap. (in.)	Brand	Item No.
Basin Wrench	10	⅜ To 1 ¼"	Ridgid	**1XDZ1**
	12	⅜ to 1 ¼"	Rothenberger	**53RF25**
Telescoping Basin Wrench	10 to 17	1 ¼ To 2 ½"	Ridgid	**1XDZ2**
	10 to 17	⅜-1-1/4"	Ridgid	**4A503**
	18½	⅜ to 1 ¼"	Rothenberger	**53RE76**
	18½	¾ to 1⅞"	Rothenberger	**53RE77**
Soil Pipe Torque Wrench	5¾	5⁄16"	Ridgid	**1XDZ7**
	5¾	⅜"	Ridgid	**1XDZ8**
Internal Pipe Wrench Set	3¾	⅜, ½, ¾, 1"	General	**3ZG99**
Internal Pipe Wrench	4½	1 To 2"	Ridgid	**1VUV1**
Pipe Extractor Set		⅛ to 1""	Ridgid	**1VUV3**
Tee Extractor Set	7.5	⅜ to 1⅝"	Rothenberger	**6XGA8**



No. 4A508



No. 1AC02

RIDGID ROTHENBERGER pipetool technologies at work WESTWARD

Manual Pipe Threading Machines

MANUAL PIPE THREADERS

Deluxe Plumber's Kit

For black, galvanized pipe, IMC, and heavy-wall conduit up to 1". Includes ½", ¾", and 1" quick-change die heads, 1¼" steel pipe cutter, 10" water pump pliers, 14" heavy-duty pipe wrench, and pipe tape.

Super Cut

Slim, compact design with ratchet angle of 22.5°. Features simple insertion and removal of die heads, retainer locking, optimized cutting geometry, and easy operation in hard-to reach places with offset lever. Convenient, lockable reversal of the ratchet direction.

600 Power Drive

Heavy-duty motor for threading ½" to 1¼" pipe and conduit. Includes ½" and 1¼" right-hand die heads. Use with RIDGID® 11R die heads and 12R replacement dies.

700 Power Drive

Drive large-geared threaders and cut pipe threads with drop-head dies through 2". Motor with spur gear reduction. RIDGID® model 12R die heads fit without adapter.

MANUAL PIPE THREADING ACCESSORIES

Universal Threading Machine Die Heads

¼" to 2" universal die head and 2½" to 4" receding die head allow cutting of tapered or straight right hand NPT/NPSM or BSP/BSPP threads. For use with No. 4CW39 threading machine, see page 873. Features automatic release for repeatable number of threads through-the-head oiling. Automatically opens when pipe is threaded to proper length.

Self-Opening Die Head

Feature through-the-head oiling. Open automatically after completion of the proper thread length. No. 4CW40 is for use only with No. 4CW93. No. 5A195 uses RIDGID® universal right-hand pipe or bolt dies ⅛" to 2".

Note: Automatic-open feature does not function below ½" size.

Quick-Opening Die Head

Uses universal right-hand pipe or bolt dies. (Included in Nos. 3Z987, 3RY43, and 3FE64, sold on page 873.)

Nipple Chuck Kit

Chuck and 5 included adapters accept ½" to 2" prethreaded pipe ends or studs to be cut to size and threaded down. For use with threading machines Nos. 3FE64, 3Z987, 3RY43, and 4CW39, see page 873. Includes wrench.

Pipe Equipment Series	Bolt Size	For Nominal Pipe Size	Rod Size	HP	Reversing	Brand	Mfr. Model	Item No.
Manual Pipe Threaders								
12-R Exposed Ratchet Threader Set	⅛" to 1"	½" to 2"	⅛" to 1"	—	—	RIDGID	36475	**4A508**
65-R Manual Ratchet Threader	No Bolt	1" to 2"	No Rod	—	—	RIDGID	36565	**1XDZ4**
Deluxe Plumber's Kit	No Bolt	½" to 1"	No Rod	—	—	Rothenberger	70614	**4ETA6**
Pipe Threader Kit	No Bolt	½" to 1¼"	No Rod	—	—	Westward	—	**4YR89**
Super Cut	No Bolt	½" to 2"	No Rod	—	—	Rothenberger	70905	**53RE84**
Pipe Threading and Cutting Machines								
600-I Power Drive	No Bolt	½" to 1¼"	No Rod	½	No	RIDGID	44918	**20KY53**
690-I Power Drive	No Bolt	½" to 2"	No Rod	½	Yes	RIDGID	44923	**20KY54**
700 Power Drive	¼" to 1"	⅛" to 2"	¼" to 1"	½	Yes	RIDGID	700/41935	**1AC02**
700 Power Drive	¼" to 1"	⅛" to 2"	¼" to 1"	½	Yes	RIDGID	45178	**52NZ16**

Description	For Use With	Brand	Mfr. Model	Item No.
Pipe Threading Accessories				
Universal Threading Machine Die Head	4CW39	RIDGID	26132	**4CW40**
Universal Self-Opening Die Head	3RY43, 3Z987, 3FE64, 5A191	RIDGID	97075	**5A195**
Quick-Opening Die Head		RIDGID	97065	**4Z974**
Nipple Chuck Kit	3FE64, 3Z987, 3RY43, 4CW39 Threading Machines	RIDGID	51005	**1VUR7**



No. 1ED99

RIDGID

Roll Groovers

Model 918—Mounts on Nos. 3FE64, 3Z987, and 4CPC4 power drives, see page 873. Requires 300 power drive and clearance for turning handle. Includes 2" to 6" (schedule 10 and 40) roll set, 8" to 12" schedule 10 (8" schedule 40) roll set, tools for roll set change, and carrying case for roll sets.

Model 916—Integral depth-adjustment screw is separate from feed mechanism.

Model 975—Used for in-place applications or mount to a RIGID 300 power drive. Works with Nos. 3FE64 and 3Z987, see page 873. Auto tracking holds pipe into unit. Requires 6½" clearance to travel around pipe, minimum 2½" of exposed pipe for grooving.

Model 915—Easy roll set changeout, cast-in handle for transport. Ratchet (included) has 90° bend in handle. Depth setting gauge. Includes ½" ratchet wrench to feed screw.

Description	Capacity	Item No.
Hydraulic Roll Groovers		
Model 918	1" to 12" Schedule 10 Steel, Stainless Steel, PVC, 1" to 8" Schedule 40 Steel, PVC, 1" to 2" Schedule 40 Stainless Steel, 2" to 6" Copper (Types K, L, M, DWV), 2½" to 6" Schedule 80 PVC	**4CPD7**
Model 916	2½" to 6" Copper Tubing Types DWV, K, L, M	**2RPC2**
Model 975	1¼" to 6" Schedule 10 And 40 Steel, Aluminum, and PVC Pipe, 1¼" to 6" Schedule 10 Stainless Steel Pipe and 1¼ to 2" Schedule 40 Stainless Steel Pipe	**3ARC8**
Manual Roll Groover		
Model 915	Schedule 10 Steel, Schedule 40 Steel/Stainless Steel 1¼ to 6", Copper Tube Type K, L, M, DWV 2 to 8", Schedule 40 PVC 1¼ to 6", Schedule 80 PVC 1½, 2½ to 3"	**1ED99**



No. 4NV27

Nom. Conduit/Pipe	Mfr. Model	Item No.
½"	37390	**4NV24**
¾-14	37395	**4NV25**
1"-11-1/2 TPI	37400	**4NV26**
1¼"	37405	**4NV27**
1½"-11-1/2 TPI	37410	**4NV28**
2"-11-1/2 TPI	37415	**4NV29**
½" to 1"	36345	**40GL44**
½" to 2"	84532	**40GL58**

RIDGID

12R Complete Alloy Die Heads

Die heads come complete with NPT alloy dies and fit the RIDGID® 12R ratchet and handle No. 3AFP4, and RIDGID Model 700 Power Drive No. 1AC02 (sold separately on page 872) without the use of an adapter. A full line of 11R Complete Die Heads are available; go to Grainger.com® and search for "Pipe Die Heads."

RIDGID

Replacement Dies for 11R and 12R Die Heads

- Right hand NPT
- Pkg. of 4



No. 4CW68

Nom. Conduit/Pipe	Mfr. Model	Item No.
Alloy Steel		
½"-14 TPI	37825	**4A509**
¾"-14 TPI	37830	**4A510**
1"-11-½ TPI	37835	**4A511**
1¼"-11-½ TPI	37840	**4CW67**
1½"-11-½ TPI	37845	**4CW68**
2"-11-½ TPI	37850	**4CW69**
High Speed Stainless Steel		
½"-14 TPI	37915	**4CW77**
¾"-14 TPI	37920	**4CW78**
1"-11-½ TPI	37925	**4CW79**
1¼"-11-½ TPI	37930	**4CW80**
1½"-11-½ TPI	37935	**4CW81**
2"-11-½ TPI	37940	**4CW82**
High Speed Steel		
½"-14 TPI	37870	**4CW71**
¾"-14 TPI	37875	**4CW72**
1"-11-½ TPI	37880	**4CW73**
1¼"-11-½ TPI	37885	**4CW74**
1½"-11-½ TPI	37890	**4CW75**
2"-11-½ TPI	37895	**4CW76**



No. 22XP84

RIDGID ★ WESTWARD®

Manual Die Heads

- NPT threads

Manual threader die heads are high speed steel.

For Nominal Pipe Size	For Use With	Threads per Inch	Brand	Item No.
¼"	40GL52	18	RIDGID	38HY61
1"		11½	RIDGID	38HY62
1"	22XP81	11½	Westward	22XP84



No. 34DA47

★WESTWARD® ROTHENBERGER pipetool technologies at work RIDGID

Power Die Heads

- NPT threads

Power die heads are aluminum, self-opening, and self-oiling.

For Nominal Pipe Size	For Use With	Threads per Inch	Brand	Item No.
½" to ¾"	Mfr. No. 00575	14	Rothenberger	53RE92
½" to 2"	Mfr. No. 63005	14, 11½	Rothenberger	53RE91
½" to 2"	Mfr. No. 63004, 63006	14, 11½	Rothenberger	53RE89
1" to 2"	Mfr. No. 00575	11½	Rothenberger	53RE93
2½" to 4"	Mfr. No. 63006	8	Rothenberger	53RE90
2½" to 4"	Mfr. No. 1224/26092	8	RIDGID	4CPE3
5" to 6"	31XM67	14	Westward	34DA47



No. 2RPA9

RIDGID

Cutting Oils

Formulated with low odor and antimist properties; free of chlorine and other halogens, PCBs and heavy metals. No. 6YJ44 maintains workable viscosity to -20°F.

Description	Color	Viscosity	Item No.
Dark, 1 gal.	Black	42.5 mm2 /s	6YJ43
Endura-Clear, 1 gal.	Endura-Clear	44.5 mm2 /s	4PCE1
Extreme Performance - Mineral Oil Based, 1 gal.	Amber	38 mm2 /s	2RPA9
Nu-Clear®, 1 gal.	Clear Yellow	43 mm2 /s	6YJ44



No. 4ERZ4



No. 3Z987

RIDGID ROTHENBERGER pipetool technologies at work ★WESTWARD®

Power Pipe Threading Machines

PIPE THREADING AND CUTTING MACHINES

22A—Machine has a 2.75-HP motor. 5-blade conical reamer.

50R—1-HP motor. Features ball detent die system.

300—Include sets of ½" to ¾" and 1" to 2" alloy universal dies.

535A—3-speed motor, large chip tray, and 1.75-gal. oil reservoir.

535M—Includes universal Quick-Opening Die Head No. 4Z974, 1 set of ½" to ¾" and 1" to 2" NPT universal dies, reamer, cutter, 1 gal. oil, spare cutter wheel, and integral foot switch.

1215—Compact machine for portable use.

1224—Includes RIDGID® 2½" to 4" die head Model 714 die head, ¼" to 2" Self-Opening Die Head No. 4CW40, one set of ½" to ¾", 1" to 2", and 2½" to 4" high-speed dies, reamer, cutter, spare cutter wheel, tool box, ¾" combination wrench, 1-gal. Nu-Clear® oil, and integral foot switch.

1250 Handheld—Push-button reverse. Includes pipe clamp, ROFIX® adapter, ½", ¾", 1", and 1¼" precision die heads and dies.

Pipe Equipment Series	Bolt Size	For Nominal Pipe Size	Rod Size	HP	Reversing	Brand	Mfr. Model	Item No.
Pipe Threading and Cutting Machines								
4SE	⅜" to 2"	½" to 4"	No Rod	1½	No	Rothenberger	63006	4ETA1
22A	¼" to 2¼"	⅛" to 2"	No Rod	2¾	No	Rothenberger	00579R	4ERY9
50R	¼" to 1½"	½" to 2"	No Rod	1	No	Rothenberger	63005	4ERZ4
300 Compact	¼" to 2"	⅛" to 2"	¼" to 2"	½	No	RIDGID	67182	3FE64
300 Complete, 38 rpm	¼" to 2"	⅛" to 2"	¼" to 2"	½	Yes	RIDGID	15682	3Z987
300 Complete, 57 rpm	¼" to 1¼"	⅛" to 1¼"	¼" to 1⅛"	½	Yes	RIDGID	15722	4CPC4
300 Power Drive	¼" to 2"	⅛" to 2"	¼" to 2"	½	Yes	RIDGID	41855	1VXG8
535A	5⁄16" to 2"	⅛" to 2"	¼" to 2"	2	Yes	RIDGID	84097	4NCV3
535M	¼" to 2"	⅛" to 2"	¼" to 2"	½	Yes	RIDGID	93287	3RY43
700 Power Drive	¼" to 1"	⅛" to 2"	¼" to 1"	½	Yes	RIDGID	45178	52NZ16
1215	5⁄16" to 1"	¼" to 1½"	5⁄16" to 1"	½	No	RIDGID	61142	1XDZ9
1224	¼" to 2"	¼" to 4"	¼" to 2"	1½	Yes	RIDGID	26092	4CW39
1250 Handheld	No Bolt	½" to 1¼"	No Rod	1	No	Rothenberger	71453	4ETA3
SUPERTRONIC 2000	No Bolt	½" to 2"	No Rod	1 11⁄32	Yes	Rothenberger	71259L	53RE88
Westward	No Bolt	½" to 2"	No Rod	1	Yes	Westward	8090	31XM66

Description	For Use With	Brand	Item No.
Pipe Threading Machine Accessories			
Power Drive Stand	Mfr. No. 122/93492 and 300/15682	RIDGID	1VTV2
Pipe Threading Machine Stand	No. 4ETA1 Pipe Threading Machine	Rothenberger	4ETA2
Pipe Cutter	Mfr. No. 535M/93287	RIDGID	1VUP8
Pipe Cutter	3FE64, 3Z987 Threading Machines	RIDGID	1VUP6
Foot Switch	5A191, 3FE64, 3Z987, 3RY43, 4CW39 Threading Machines	RIDGID	1VTU9
FOR/OFF/REV Switch	Mfr. No. 300/15682	RIDGID	1VUR3
Pipe Reamer	3Z987 Threading Machine	RIDGID	1VTV3
Reamer Blade	4CW39 Threading Machine	RIDGID	1VTU6
Reamer Cone	Mfr. No. 1822-I/20000, 300/67182	RIDGID	1VTU8
Jaw Insert Set	Mfr. No. 1224/26092	RIDGID	1VTU5
Jaw Insert Set	Mfr. No. 1822-I/20000	RIDGID	1VTU7
Jaw Insert Set	3Z987, 3FE64, 3RY43 Threading Machines	RIDGID	1VUR5
Replacement Pipe Die, 2 ½ to 4"-8 TPI, Pk. of 5	6YJ38 Geared Threader	RIDGID	1VTV1
Threader Ratchet and Handle	Complete Die Heads Type 12R	RIDGID	3AFP4
Square Drive Adapter	1AC02, 6YJ38, 161 Geared Threader, 258 Power Pipe Cutter	RIDGID	1XDZ6
Support Arm	1AC02 Power Drive	RIDGID	1VUR1
Metal Carrying Case		RIDGID	4NV34
Pipe Threading Accessories			
Replacement Pipe Die, Right Hand, Bevel Thread Type	4CW40, 4Z974, 5A195 Threading Machine Die Heads and RIDGID Model# 504A, 713, 816, 817 and 842 Universal Die Heads	RIDGID	38HY71
Replacement Pipe Die, Right Hand, NPSM Thread Type		RIDGID	38HY69
Pipe Threading Oiler		RIDGID	1ED22
Replacement Pump Gun Only for No. 1ED22	1ED22 Oiler	RIDGID	1VUT2
Replacement Pump Gun w/Hose for No. 1ED22		RIDGID	1VUR9



Tribench
No. 53RE87



V-Head Pipe Stand
No. 22XR01



Bench Chain Vise
No. 1VUV7



Threading Machine Stand
No. 2ZB62

RIDGID WESTWARD ROTHENBERGER GREENLEE

Pipe Threading Stands and Vises

Pipe Threading Machine Stands—Wheel stands feature 16" wheels. No. 2ZB62 features equipment cabinet for storage and includes 2 internal shelves and a large external shelf. For use with RIDGID® Pipe Threading Machines Nos. 3RY43, 3FE64 and 4CW39, sold on page 873.

Roller Head Pipe Stands—Roller heads support pipe weighing up to 2500 lb. The rollers allow the pipe to be turned while work is in progress. Additional stands are recommended for longer and heavier lengths of pipe. Nos. 22XP99 and 3FE65 allow height adjustment from 32" to 55".

V-Head Pipe Stands—Allow height adjustment from 28" to 52".

Pipe Cap.	Overall Height	Load Capacity	Leg Type	Max. Leg Spread	Brand	Item No.
Pipe Stand with Roller Head						
⅛ in to 16 in	27 in to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF40**
Portable Tribench						
⅛ in to 6 in	36 in	48 lb	Collapsible Tripod	51 ½ in	Rothenberger	**53RE87**
Roller Head Pipe Stand						
⅛ to 12 in	32 to 55 in	2,500 lb	Adjustable	22 in	Westward	**22XP99**
⅛ to 12 in	32 in to 55 in	1,000 lb	Adjustable	—	Ridgid	**3FE65**
½ in to 16 in	27 in to 50 in	2,500 lb	Folding	22 in	Rothenberger	**53RF38**
2 to 36 in	34 in	2,500 lb	Adjustable	30 in	Ridgid	**1VXG9**
V-Head Pipe Stand						
⅛ to 12 in	28 in to 52 in	2,500 lb	Adjustable	22 in	Westward	**22XR01**
⅛ to 12 in	28 in to 52 in	2,500 lb	Adjustable	—	Ridgid	**4CX07**
½ in to 16 in	27 in to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF36**
½ in to 16 in	27 in to 50 in	2,500 lb	Folding	22 in	Rothenberger	**53RF37**
½ in to 16 in	27 in to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF39**
12 in	28 in to 52 in	2,500 lb	Folding	—	Ridgid	**26C170**

Pipe Cap.	Type	Overall Height	Brand	Item No.
Bench Chain Vises				
⅛ to 2½ in	Top Screw	3½ in	Ridgid	**1VUV7**
	Top Screw	3½ in	Westward	**22XR02**
⅛ to 4 in	Top Screw	4 in	Ridgid	**1VUV9**
	Top Screw	4 in	Westward	**22XR03**
¼ to 6 in	Top Screw	4½ in	Ridgid	**1VUW2**
	Top Screw	4½ in	Westward	**22XR04**
½ to 8 in	Top Screw	5 in	Westward	**22XR05**
	Top Screw	5 in	Ridgid	**1VUW4**
Bench Yoke Vises				
⅛ to 2 in	—	4½ in	Ridgid	**1ED98**
	—		Westward	**22XP96**
⅛ to 3 in	With Pipe Jaws	12½ in	Ridgid	**4CPD8**
⅛ to 4 in	—	5 in	Ridgid	**4NV31**
	—		Westward	**22XP97**
⅛ to 6 in	With Pipe Jaws	19 in	Ridgid	**4CPD9**
Portable Chain Vises				
⅛ to 2½ in	—	37 in	Ridgid	**4ZA21**
⅛ to 6 in	Tri-Stand	48 in	Ridgid	**13C594**
	—	35 in	Westward	**22XP94**
⅛ to 12 in	Tri-Stand	48 in	Ridgid	**13C595**
Portable Yoke Vises				
⅛ to 2½ in	—	35½ in	Ridgid	**1VUV5**
⅛ to 2 in	—		Westward	**22XP98**

For Use With	Load Capacity	Overall Height	Brand	Item No.
Pipe Threading Machine Stand w/Cabinet				
5A191, 3RY43, 3FE64, 4CW39 Pipe Threading Machines	400 lb.	32"	Ridgid	**2ZB62**
Pipe Threading Machine Stand w/Tray				
5A191, 3RY43, 3FE64 and 4CW39 Pipe Threading Machines	400 lb.	32"	Ridgid	**1EZ17**
Bending Threading Cart				
Mfr. No. 555, 854DX, 855DX, 467	2000 lb.	28½"	Greenlee	**449T96**



Superfreeze® Pipe Freezing Unit
No. 6YJ42



Pipe Freezing Spray Kit
No. 1FER8



Pipe Thawing Unit
No. 1XEA2

Pipe Freezing/Thawing and Soldering Guns

RIDGID ROTHENBERGER

Superfreeze® Pipe Freezing Unit—Make repairs without shutting down water systems. System acts as a mini-refrigeration unit that circulates refrigerant to its aluminum freeze heads. Self-contained unit uses no consumables. Pipe capacity: ½" to 2" steel, ½" to 2½" copper tube.

Pipe Thawing Unit—Electric current clears frozen metal pipes in minutes without digging or breaking through walls. Two 25-ft. cables clamp on to provide continuous heat for 4 ft. to 150 ft. of ½" to 1½" dia. pipes. Adjustable current output.

Flameless Soldering Gun—Electric soldering gun has 2 power settings; sweats joints on copper tube up to 3". Includes 12-ft. cable.

Description	Brand	Mfr. Model	Item No.
Pipe Freezing/Thawing			
Superfreeze® Pipe Freezing Unit	Ridgid	68967	**6YJ42**
Pipe Freezing Spray Kit	Rothenberger	64004	**1FER8**
Pipe Freezing Spray	Rothenberger	64001	**1FER9**
Pipe Thawing Unit	Ridgid	62747	**1XEA2**
Flameless Soldering Gun			
Electric Soldering Gun	Ridgid	62862	**4NV35**



ZIRCON

Electronic Water Detector

Automatically sounds a loud alarm when in direct contact with water, alerting user to leaks and flooding. Features low-battery warning. Floats on surface. Splash- and water-resistant. Not waterproof. Made of molded, impact-resistant plastic. Powered by 9V battery (not included).

Description	Mfr. Model	Item No.
Water Detector	64003	**1TJT7**



RIDGID

Pressure Test Pump

Use to test piping systems for leaks. Features 1-valve operation, automatic pressure check valves, corrosion-proof construction, and variable lever-arm design. Pressure gauge is protected from damage; dirt filter is replaceable.

Max. Pressure (psi)	Connection Size (NPT)	Hose Length (in.)	Mfr. Model	Item No.
725	½"	30	50557	**1XDZ3**



No. 6R095



No. 44ZJ76



No. 8YU93



No. 53KA33



No. 5HL16



No. 6XUR9



No. 22N890

Features Key			
A	Stud Markings	H	Nail Slot
B	Magnetic Tip	I	High Visibility
C	Write-on Label	J	Measurement Labels
D	Wrap-around Dia.	K	Vertical Read
E	Reinforced Hook	L	Autolock
F	Rubber Grip	M	Zero Point
G	Double Sided	N	Reinforced Blade

Measuring Tapes

STANLEY Lufkin KESON MAKE YOUR MARK Milwaukee WESTWARD JOHNSON KOMELON USA Division

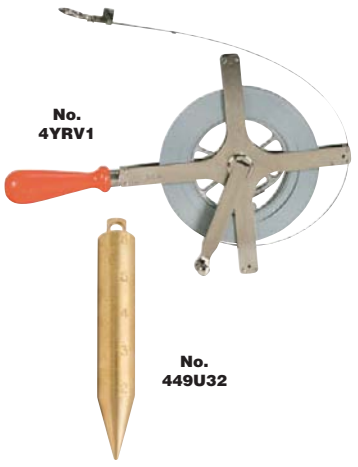
- Blades are made of steel

Blade Width	Features Key	Brand	Item No.
3 ft. Keychain Tape			
Units: In./ft. - ⅛, 1/16			
¼"	A, M	STANLEY	**6R095**
6 ft. Diameter Tape			
Units: In./ft			
¼"	—	Crescent Lufkin	**6C196**
Units: In./ft/Dia.			
¼"	D, F	Keson	**30NX09**
6 ft. Keychain Measuring Tapes			
Units: In./ft./cm			
13mm	F	Milwaukee	**48LU51**
10 ft. Measuring Tapes			
Units: In./ft., ⅛, 1/16, Metric			
⅝"	—	Keson	**22N893**
⅝"	E, F	Keson	**22N877**
Units: In./ft. - ⅛, 1/16			
¼"	A, D, M	STANLEY	**6R065**
⅝"	E, F, G, I, K	Keson	**22N871**
Units: Metric cm/mm			
16mm	—	Keson	**22UY55**
16mm	F	Keson	**22UY52**
12 ft. Measuring Tapes			
Engineers/Units: ft., 1/10, 1/100			
⅝"	E, F	Keson	**22N870**
Engineers/Units: In./ft., ⅛, 1/16 & ft., 1/10, 1/100			
⅝"	—	Keson	**22N884**
⅝"	E, F	Keson	**22N855**
Units: In./ft.			
¾"	F	Crescent Lufkin	**44ZJ75**
Units: In./ft., ⅛, 1/16			
½"	—	STANLEY	**5HK89**
½"	A	Westward	**1MKR4**
½"	A, L, M	STANLEY	**6A495**
½"	C, F	STANLEY	**20JY20**
⅝"	—	Keson	**22N888**
⅝"	E, F	Keson	**22N860**
⅝"	F	Keson	**22N880**
⅝"	No Lock	Keson	**31C008**
¾"	—	STANLEY	**6A496**
¾"	A	Westward	**1MKR6**
Units: In./ft., ⅛, 1/16, 1/32			
⅝"	A, E, F	Westward	**24Z086**
¾"	A, E	Westward	**24Z085**
Units: In./ft., ⅛, 1/16, Metric			
½"	A	Westward	**1MKR5**
½"	A, M	STANLEY	**5C571**
Units: In./ft., ⅛, 1/16 & ft., 1/10, 1/100			
½"	M	STANLEY	**5C569**
Units: In./ft./Fractional			
½"	A	Westward	**1MKR3**
⅝"	K	Keson	**22N896**
¾"	A, F	Westward	**1MKP7**

Blade Width	Features Key	Brand	Item No.
16 ft. FatMax® Measuring Tapes			
Units: In./ft., ⅛, 1/16			
1¼"	A, F, M	STANLEY	**5HL13**
16 ft. Measuring Tapes			
Architect/Units: In.			
1"	I, F	Johnson	**6XUR8**
Engineers/Units: ft., 1/10, 1/100			
1"	E, F	Keson	**22N852**
Units: In./ft.			
¾"	F	Crescent Lufkin	**44ZJ76**
1"	B, F, G	Komelon	**8YU93**
1¼"	E, M	STANLEY	**49XJ16**
25mm	—	Milwaukee	**53KA30**
Units: In./ft., 1/16, Metric			
¾"	A, E, F	Westward	**24Z091**
1"	A, E	Westward	**24Z090**
Units: In./ft., ⅛, 1/16			
¾"	—	STANLEY	**6A497**
¾"	A	Westward	**1MKR7**
¾"	A, M, Yellow	STANLEY	**5LP67**
¾"	C, F	STANLEY	**20JY21**
1"	—	Keson	**22N889**
1"	E, F, G, I, K	Keson	**22N861**
1"	F	Keson	**22N881**
1"	G, I, K	Keson	**44ZK02**
1"	N	STANLEY	**24A342**
Units: In./ft., ⅛, 1/16, Metric			
¾"	A	Westward	**1MKR8**
¾"	A, M, Chrome	STANLEY	**5C572**
¾"	A, M, Yellow	STANLEY	**5HK94**
1"	—	Keson	**22N894**
1"	E, F	Keson	**22N878**
Units: In./ft./Fractional			
¾"	A, E	Westward	**24Z089**
¾"	A, E, F	Westward	**24Z088**
1"	A, F	Westward	**1MKP8**
1"	K	Keson	**22N897**
25mm	—	Milwaukee	**53KA33**
Units: in./ft./Fractional			
27mm	M	Milwaukee	**483F41**
Units: Metric			
25mm	—	Keson	**22UY56**
25mm	F	Keson	**22UY53**
25 ft. FatMax® Measuring Tapes			
Units: In./ft., ⅛, 1/16			
1¼"	x	STANLEY	**5HL16**

Blade Width	Features Key	Brand	Item No.
25 ft. Measuring Tapes			
Architect/Units: In.			
1"	I, F	Johnson	**6XUR9**
Engineers/Units: ft., 1/10, 1/100			
1"	F	Keson	**3LJL6**
Engineers/Units: ft., 1/10, 1/100 & Metric			
1"	E, F	Keson	**22N854**
Engineers/Units: In./ft., ⅛, 1/16 & ft., 1/10, 1/100			
1"	—	Keson	**22N885**
1"	E, F	Keson	**22N856**
1"	F, M	Keson	**22N857**
1 3/16"	F	Keson	**22N872**
Units: In./ft.			
1"	B	STANLEY	**45JX26**
1"	F	Crescent Lufkin	**44ZJ77**
Units: In./ft., ⅛, 1/16			
1"	—	Keson	**22N890**
1"	—	STANLEY	**2KFJ3**
1"	—	STANLEY	**6A498**
1"	—	STANLEY	**3CA87**
1"	A	Westward	**1MKR9**
1"	A, M, Yellow	STANLEY	**5HK84**
1"	B, F	Keson	**22N875**
1"	C, F	STANLEY	**20JY23**
1"	E, M	Keson	**22N862**
1"	F	Keson	**22N882**
1"	F	Keson	**22N863**
1"	F, L	Keson	**22N873**
1"	G, I, K	Keson	**44ZK03**
1 1/8"	H	STANLEY	**6CMY9**
1 3/16"	F	Keson	**22N876**
Units: In./ft., ⅛, 1/16 & ft., 1/10, 1/100			
1"	G, I, K	Keson	**44ZK06**
Units: In./ft., ⅛, 1/16 & Metric			
1"	F	Keson	**22N879**
1"	F, K	Keson	**22N869**
Units: In./ft./Fractional			
1"	A, F	Westward	**1MKP9**
1"	A, J, M	STANLEY	**5LP66**
1"	K	Keson	**22N898**
25mm	—	Milwaukee	**53KA31**
Units: in./ft./Fractional			
27mm	M	Milwaukee	**483F42**
Units: In./ft./Metric			
1 3/16"	F	Keson	**56YM20**
Units: Metric			
25mm	—	Keson	**22UY57**
25mm	F	Keson	**22UY54**
26 ft./8m Measuring Tapes			
Units: In./ft., ⅛, 1/16 & Metric			
1"	—	Keson	**22N895**

Blade Width	Features Key	Brand	Item No.
26 ft. Measuring Tapes			
Units: In./ft.			
1¼"	E, L, M	STANLEY	**49XJ20**
1¼"	E, M	STANLEY	**49XJ17**
25mm	—	Milwaukee	**53KA34**
Units: In./ft., ⅛, 1/16 & Metric			
1"	A	Westward	**1MKT1**
1"	A, M, Chrome	STANLEY	**5C573**
1"	A, M, Yellow	STANLEY	**5HK85**
30 ft. FatMax® Measuring Tapes			
Units: In./ft., ⅛, 1/16			
1¼"	A, F	STANLEY	**6XV48**
30 ft. Measuring Tapes			
Units: In./ft.			
1 3/16"	F	Keson	**56YM18**
Units: In./ft., ⅛, 1/16			
1"	—	Keson	**22N891**
1"	A	Westward	**1MKT2**
1"	A, M	STANLEY	**5C567**
1"	G, I, K	Keson	**44ZK05**
Units: In./ft./Fractional			
25mm	—	Milwaukee	**53KA32**
33 ft. Measuring Tapes			
Architect/Units: In			
1"	I, F	Johnson	**6XUT0**
Engineers/Units: In./ft., ⅛, 1/16, & ft., 1/10, 1/100			
1"	—	Keson	**22N886**
1"	E, M	Keson	**22N859**
Units: In./ft., ⅛, 1/16			
1"	—	Keson	**22N892**
Units: In./ft., ⅛, 1/16, & ft., 1/10, 1/100			
1"	G, I, K	Keson	**44ZK04**
35 ft. FatMax® Measuring Tapes			
Units: In./ft., ⅛, 1/16			
1¼"	A, F, M	STANLEY	**3TB92**
35 ft. Measuring Tapes			
Units: In./ft.			
1 3/16"	F	Keson	**56YM19**
1¼"	E, M	STANLEY	**49XJ19**
Units: In./ft., ⅛, 1/16			
1"	A	Westward	**1MKT3**
1"	A, M	STANLEY	**4CL55**
1"	E, F	Keson	**22N868**
1"	F	Keson	**22N883**
Units: In./ft./Fractional			
1"	A, F	Westward	**1MKR2**
100 ft. FatMax® Measuring Tapes			
Units: In./ft.			
⅜"	A, F, M	STANLEY	**6XV49**



Oil Gauging Tape Measures

Lufkin® USTAPE WORLD CLASS TOOLS SINCE 1876

Single Duty for Use on Derricks—Open reel with extra large winding drum that provides rapid line recovery.
- ¼"W Chrome Clad® blade

Single and Double Duty for Oils—Open reel with heavy-duty frame. Blade is recessed beneath multiple layers of nickel and chrome electroplating for strong wear and corrosion resistance. Tape reads right to left.
- ½"W Chrome Clad® blade with black markings

Plumb Bobs—Designed for submersion in oils and viscous liquids. Use to determine verticals. Innage method gives actual depth of the liquid in the tank.

Blade Length	Graduation Type	Graduations	Brand	Mfr. Model	Item No.
Single Duty for use on Derricks					
100 ft.	in./ft.	Feet to 10ths and 100ths	Crescent Lufkin	C2276DN	**4YRV1**
Single Duty for Light Oils					
25 ft.	in./ft.	Inches to 8ths	Crescent Lufkin	C1290SF590N	**4YRU4**
33 ft.	in./ft.		Crescent Lufkin	C1291SF590N	**4YRU6**
Double Duty Blade for Heavy or Light Oils, English/Metric					
50 ft.	in./ft./mm/cm	Top Side in Ft/In to 8ths, Bottom Side MM	Crescent Lufkin	CN1293SMEF59N	**4YRT1**
66 ft.	in./ft./mm/cm		Crescent Lufkin	CN1294SMEF59N	**4YRT3**
100 ft.	in./ft./mm/cm		Crescent Lufkin	CN1296SMEF59N	**4YRT9**
Double Duty Blade for Heavy or Light Oils					
33 ft.	in./ft.	Inches to 8ths	Crescent Lufkin	CN1291SF590N	**4YRR4**
50 ft.	in./ft.		Crescent Lufkin	CN1293SF590N	**4YRR6**
75 ft.	in./ft.		Crescent Lufkin	CN1295SF590N	**4YRT5**
100 ft.	in./ft.		Crescent Lufkin	CN1296SF590N	**4YRT7**

Characteristics	Construc.	Brand	Mfr. Model	Item No.
Plumb Bobs				
Cylindrical Body	Brass w/Hardened Steel Point	Us Tape	58888	**449U30**
Cylindrical Body, Pointed End Tip	Stainless Steel	Us Tape	58890	**449U31**
English Plumb Bob				
Cylindrical Body	Brass w/Hardened Steel Point	Us Tape	58899	**449U32**













KESON MAKE YOUR MARK ★ WESTWARD STANLEY

Hand-Wind Measuring Tapes

BLADE TYPE

Fiberglass—Lightweight, inexpensive blades are rust-resistant and will not conduct electricity, making them an excellent choice for use in corrosive environments and in areas with electrical hazards.

Steel—Heavier, durable steel blades will not stretch. Provide a more accurate measurement than fiberglass. Excellent for surveying and engineering applications.

REEL TYPE

Both open and closed reels have a standard 1:1 rewind, as well as a 3:1 gear rewind.

Open—Open reels can be easily cleaned of dirt and debris, making them an excellent choice for outdoor, dirty, or dusty environments. Replacement blades are available at Grainger.com®.

Closed—Closed-reel tapes have a compact profile that makes them well suited for indoor applications, particularly in tight spaces.

Blade Length	Graduation Type	Graduations	Brand	Item No.
Fiberglass Open Reel, ½" Blade				
50 ft.	in./ft.	⅛"	Keson	**3LJL9**
50 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJP1**
100 ft.	in./ft.	⅛"	Keson	**3LJN1**
100 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJP2**
100 ft.	ft.	1/10, 1/100 ft.	Westward	**4YP86**
30m	mm	2mm	Keson	**3LJW9**
165 ft.	in./ft.	⅛"	Keson	**4MHH8**
165 ft.	ft.	1/10, 1/100 ft.	Keson	**4MHH9**
50m	mm	2mm	Keson	**3LJX1**
200 ft.	in./ft.	⅛"	Keson	**4MHH5**
200 ft.	in./ft.	⅛"	Keson	**3LJN2**
200 ft.	ft.	1/10, 1/100 ft.	Keson	**4MHH3**
300 ft.	in./ft.	⅛"	Keson	**3LJN3**
300 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJP4**
100m	mm	2mm	Keson	**3LJX2**
Fiberglass Open Reel, Double-Sided ½" Blade				
50 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**3LJR2**
50 ft./15m	ft./mm/cm/m	1/10, 1/100 ft., m, cm, 2mm	Keson	**3LJU4**
50 ft./15m	in./ft./mm	⅛" and 2mm	Keson	**3LJT3**
100 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**3LJR3**
100 ft./30m	ft./mm/cm/m	1/10, 1/100 ft., m, cm, 2mm	Keson	**3LJU5**
165 ft./50m	in./ft./mm	⅛" and 2mm	Keson	**4MHH7**
50m	mm	2mm/5mm	Keson	**4MHH2**
200 ft./60m	in./ft./mm	⅛" and 2mm	Keson	**4MHH4**
200 ft./60m	ft./mm/cm/m	1/10, 1/100 ft., m, cm, 2mm	Keson	**6XGT4**
200 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**3LJR4**
200 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**4MHH6**
300 ft.	in./ft.	1/10 ft., 1/100 ft.	Westward	**4YP87**
300 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**3LJR5**
300 ft./90m	in./ft./mm	⅛" and 2mm	Keson	**3LJT6**
300 ft./90m	ft./mm/cm/m	1/10, 1/100 ft., m, cm, 2mm	Keson	**3LJU6**
Fiberglass Open Reel, Speed Rewind ½" Blade				
100 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGT5**
200 ft.	in./ft.	⅛"	Keson	**6XGT6**
200 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGT7**
300 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGT9**
Fiberglass Open Reel, Double-Sided Speed Rewind ½" Blade				
100 ft.	in./ft./Fractional/Decimal	⅛" and 1/10, 1/100 ft.	STANLEY	**5ME45**
200 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Westward	**1MKT5**
200 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**6XGT8**
300 ft.	in./ft.	⅛" and 1/10, 1/100 ft.	Keson	**6XGU0**
300 ft.	in./ft./Fractional/Decimal	⅛" and 1/10, 1/100 ft.	STANLEY	**5ME46**

Blade Length	Graduation Type	Graduations	Brand	Item No.
Fiberglass Closed Reel, ½" Blade				
50 ft.	in./ft.	⅛"	Keson	**3LJL7**
50 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJN8**
100 ft.	in./ft.	⅛"	Keson	**3LJL8**
100 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJN9**
Fiberglass Closed Reel, Double-Sided ½" Blade				
50 ft./15m	in./ft./mm	⅛" and 2mm	Keson	**3LJT1**
100 ft./30m	in./ft./mm	⅛" and 2mm	Keson	**3LJT2**
Nylon Clad Steel Open Reel, ⅜" Blade				
100 ft.	in./ft.	⅛"	Keson	**3LJV7**
100 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJV1**
200 ft.	in./ft.	⅛"	Keson	**3LJV9**
200 ft.	ft.	1/10, 1/100 ft.	Keson	**3LJV3**
Nylon Clad Steel Open Reel, Speed Rewind ⅜" Blade				
100 ft.	in./ft.	⅛"	Keson	**6XGR8**
100 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGR9**
200 ft.	in./ft.	⅛"	Westward	**1MKU3**
200 ft.	in./ft.	⅛"	Keson	**6XGT0**
200 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGT1**
300 ft.	in./ft.	⅛"	Keson	**6XGT2**
300 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGT3**
Steel Closed Reel, ⅜" Blade				
50 ft.	in./ft.	⅛"	Keson	**6XGP8**
50 ft.	in./ft.	⅛"	Westward	**1MKT7**
50 ft.	in./ft.	⅛"	Keson	**6XGP6**
100 ft.	in./ft.	⅛"	Keson	**6XGR1**
100 ft.	in./ft.	⅛"	Westward	**1MKT8**
100 ft.	in./ft.	⅛"	Keson	**6XGP9**
Steel Closed Reel, Speed Rewind ⅜" Blade				
50 ft.	in./ft.	⅛"	Westward	**1MKT9**
50 ft.	in./ft.	⅛"	Keson	**6XGR2**
50 ft.	ft.	1/10 ft., 1/100 ft.	Keson	**6XGR3**
100 ft.	in./ft.	⅛"	Keson	**6XGR5**
100 ft.	ft.	1/10, 1/100 ft.	Keson	**6XGR6**
Steel Closed Reel, Double-Sided ⅜" Blade				
100 ft./30m	in./ft./mm	⅛" and 2mm	Keson	**6XGR0**
100 ft./30m	in./ft./mm	⅛" and 2mm	Keson	**6XGP7**
Steel Closed Reel, Double-Sided Speed Rewind ⅜" Blade				
50 ft./15m	in./ft./mm	⅛" and 2mm	Keson	**6XGR4**
100 ft./30m	in./ft./mm	⅛" and 2mm	Keson	**6XGR7**

Description	Wheel Circumference	Measuring Range	Measuring Units	Handle Extended L	Brand	Item No.	CARRYING CASES Item No.
Measuring/Marking Wheels							
RR Series, Spoked Wheel w/Applicator, Poly	1 ft.	9999.9 ft.	ft., in.	38"	Keson	4MHJ1	—
ProMarker® Spoked Wheel w/Brake	4 ft.	100,000 ft.	ft.	33½"	Rolatape	6XZ50	—
RT Series Single with Paint Marking	39 17/64"	10,000 ft.	10ths, ft., in.	42½"	Rolatape	45JL18	—
Measuring Wheels							
MP Series, Solid Wheel, Metal Frame	4 ft.	99,999 ft.	10ths, ft.	42"	Keson	2UJZ3	2UJZ5
MP Series, Solid Wheel, Metal Frame	23 9/16"	99,999 ft.	ft.	42"	Keson	2UJY8	21LP38
MP Series, Spoked Wheel, Metal Frame	4 ft.	99,999 ft.	ft.	42"	Keson	2UJZ2	2UJZ5
MP Series, Spoked Wheel, Metal Frame	35 11/32"	99,999 ft.	ft.	42"	Keson	2UJZ1	2UJZ5
RR Series, Dual Wheel, Solid	1 ft.	9999.9 ft.	ft., in.	38"	Keson	2UJY5	2UJZ6
RR Series, Spike Wheel, Poly	4 ft.	10000 ft.	10ths, ft.	42"	Keson	8CEK8	—
RR Series, Spoked Wheel, Metal Resin	39 17/64"	9999.9 ft.	ft., in.	38¾"	Keson	2UJY7	21LP38
RR Series, Spoked Wheel, Poly	0.305m	9999.9m	ft., in., m	38"	Keson	4LGJ2	21LP38
RR Series, Spoked Wheel, Poly	1 ft.	9999.9 ft.	ft., in.	38"	Keson	2UJY4	2UJZ6
RR Series, Spoked Wheel, Poly	39 17/64"	9999.9 ft.	ft., in.	38¾"	Keson	2UJY6	2UJZ5
RRT Series, Spoked, Handle Brake and Reset	18 27/32"	10,000 ft.	ft., in.	38"	Keson	6XGU2	2UJZ6
RRT Series, Spoked Wheel, Handle Brake and Reset	39 17/64"	10,000 ft.	ft., in.	39"	Keson	6XGU3	2UJZ5
32 Professional Series, Orange	33 49/64"	100,000 ft.	ft.	40¼"	Rolatape	34F785	—
32 Professional Series, Spoked Wheel, Metric	—	—	cm, m	40¼"	Rolatape	44M542	—
32 Professional Series Disk Wheel	4 ft.	100,000 ft.	ft.	45¾"	Rolatape	5MG72	5MG75
32 Professional Series w/Stand	33 49/64"	100,000 ft.	ft.	40¼"	Rolatape	34F786	—
RT Series Dual, Units in 10ths	1 ft.	10,000 ft./in.	10ths	36½"	Rolatape	34F782	—
RT Series Dual, Units in Inches	1 ft.	10,000 ft./in.	in.	36½"	Rolatape	34F780	—
RT Series Single	1 ft.	10,000 ft./in.	in.	36½"	Rolatape	34F781	—
RT Series Single	35 11/32"	10,000 ft.	ft., in.	36"	Rolatape	34RP66	—
RT Series Single	39 17/64"	10,000 ft.	10ths, ft., in.	42½"	Rolatape	45JL19	—
RT Series Single with Trigger Brake	39 17/64"	10,000 ft.	in.	38 9/16"	Rolatape	45JL26	—
Spoked Wheel, Silver/Yellow	3.25 ft.	10,000	ft.	42½"	Rolatape	44G908	—
Dual Wheel	12 39/64"	9999 ft., 11 in.	ft., in.	42½"	Westward	21LP37	—
Spoked Wheel	1 ft.	9999.9 ft.	10ths, ft.	42½"	Westward	21LP33	—
Spoked Wheel	1 ft.	9999 ft., 11 in.	ft., in.	42½"	Westward	21LP32	—
Spoked Wheel, Folding w/Stand	35 35/64"	9999 ft., 11 in.	ft., in.	39⅜"	Westward	21LP36	—
Spoked Wheel, w/Carrying Case	1 ft.	100,000 ft.	ft.	36"	Westward	1EJX5	—
Spoked Wheel w/Carrying Case	1 ft.	100,000 ft.	ft.	34¼"	Westward	1EJX4	—
Spoked Wheel w/Stand	18 27/32"	9999 ft., 11 in.	ft., in.	43½"	Westward	21LP40	—
Spoked Wheel w/Stand, Adds and Subtracts, w/Carrying Case	3 ft.	100,000 ft.	ft.	40½"	Westward	1EJX6	—
Spoked Wheel w/Stand, Foldable	35 35/64"	9999 ft., 11 in.	ft., in.	40 15/16"	Westward	21LP34	—
Spoked Wheel w/Stand, w/ Carrying Case	1m	100,000m	m	44"	Westward	1EJX7	—
Spoked Wheel w/Stand, w/ Carrying Case	3 ft.	100,000 ft.	ft.	40½"	Westward	1EJX8	—
Measuring Wheels, Metric							
MP Series, Spoked Wheel, Metal Frame	1m	99,999m	m	42"	Keson	2UJY9	2UJZ5
RR Series, Spoked Wheel, Poly	1m	9999.9m	m., dm	38¾"	Keson	4LGJ3	2UJZ5
Mechanical Measuring Wheels							
Rolatape 400 Series	4 ft.	100,000 ft.	ft.	45¾"	Rolatape	44M541	5MG75
Replacement Counters							
Replacement Counter for Keson MP Series Wheels, 99,999 ft.	—	—	—	—	Keson	4LGJ4	—



KESON MAKE YOUR MARK

ROLATAPE PROFESSIONAL SERIES

WESTWARD®

Mechanical Measuring and Measuring/ Marking Wheels

ROLOTAPE RT SERIES

Feature durable aluminum wheel and telescoping handle for storage.

KESON MP SERIES

Have metal frames with a centerline design for wheel balance.

KESON RRT SERIES

Feature a gearshaft center-aligned geared counter with a handle brake and reset.

ROLATAPE 32 SERIES

All-steel construction provides heavy-duty strength and durability.

WESTWARD®

Made of high-impact polycarbonate material.

KESON RR SERIES

Easy-to-read magnified 5-digit counter, measuring up to 9999' 11" without resetting. 3-pc. handle with cam lock adjusts to comfortable height.

Electronic Measuring Wheels

KESON RR SERIES

Features an easy-to-read magnified 5-digit counter that measures up to 9999 ft. 11" without resetting. 3-pc. handle with cam lock adjusts to comfortable height.

KESON MAKE YOUR MARK

WESTWARD®



Description	Wheel Circumference	Measuring Range	Measuring Units	Handle Extended L	Brand	Item No.	CARRYING CASES Item No.
Electronic, Professional Series, Spoked Wheel, Metal Frame	4 ft.	99,999 ft.	10ths, dm, ft., in., m	42"	Keson	2UJZ4	2UJZ5
Electronic Spoked Wheel, ABS Frame	39 17/64"	9999.99m	cm, ft., in., m	38½"	Westward	21LP31	21LP38

Folding Wood Rules

WESTWARD®

All rules have abrasive-resistant epoxy finish and feature brass end caps, strike plates, and riveted lock joints.





Description	L (in.)	Graduations	Markings	Item No.
Engineers Rule	72	1/10", 1/100", 1/16"	Regular Outside Markings, Graduated Slide, 16" Stud Centers In Red	30PC12
Folding Rule	72	1/16" On Both Sides and Edges	Regular Outside Markings, 16" Stud Centers In Red	30PC13
Folding Rule	72	1/16" On Both Sides and Edges	Regular Outside Markings, Graduated Slide, 16" Stud Centers In Red	30PC14
Folding Rule	78¾	Marked On Both Sides and Both Edges, Millimeter with Centimeter and Meter Markings On Metric Side, 1/16" On English Side, Reading Left to Right On Both Sides	Regular Outside Markings, Read Left to Right, 16" Stud Centers In Red	30PC15
Two Way Reading Folding Rule	72	Feet, Inches, and 1/16" On Both Sides and Edges	Embedded Markings, Flat Inside Lie Close to The Work, Read Left to Right or Right to Left, 16" Stud Centers In Red	30PC11
Modular Mason Folding Rule	72	1/16" On Both Edges, Every Joint Opens On Even Number	Economy/Engineered/Roman Brick, Facing Tile, 6 Scales In A 16" Module	30PC16
Brick Mason Folding Rule	72	Vertical Inches to 1/16" On Both Edges, Brick Mason's Scale On Inside, Red Course Counters Numbered Consecutively	Regular Outside Markings, Numbered Consecutively	30PC17
Brick Mason Folding Rule	72	Vertical Inches to 1/16" On Both Edges, Brick Mason's Scale On Inside, Red Course Counters Numbered Consecutively	Regular Outside Markings, Numbered Consecutively	30PC18



No. 45JL17



No. 24Y894



No. 489K11



No. 21EK16



No. 40EV37

Laser Distance Meters

Precise laser technology accurately measures distances to, in, and around all types of surfaces, equipment, and structures by transmitting and receiving laser reflection. Ideal for when greater accuracy is required for quick measurements. For indoor and outdoor use.

Bosch—Meters provide fast, easy, accurate measurements with a full range of features including; real-time distance, area, volume, indirect lengths and angles. Select models offer Bluetooth® connectivity.

Milwaukee—Designed to provide the easiest measurements from all orientations. Screens offer maximum visibility in low light conditions. Impact-resistant overmold provides protection from tough jobsite conditions. Side-shot button allows an easier, more ergonomic experience when measuring in all directions. No. 489K09 includes memory storage for 3 reading. Nos. 489K10 and 489K11 include memory storage for 30 readings.

Leica DISTO™—With ranges of up to 650 ft. and better than ±1/16" accuracy, per ISO standards, these units can be used in all areas of construction and MRO. All are ruggedly built and designed for site conditions. Multiple units incorporate view screens for outdoor use, and tilt sensors to help acquire additional calculations in hard-to-reach areas.

Fluke—Fast and easy to use, improves accuracy, and reduces measurement errors. No. 24Y894 has a stake out function for marking off defined measured lengths and tripod mode for long distance measuring. Stores up to 20 readings.

Leica Accessories—Target plates are made of gray plastic with reflective coatings to increase the effective range of the meter on nonreflective surfaces.

Maximum Measuring Distance	Accuracy	Battery Type	Distance Meter Functions	Includes	Brand	Mfr. Model	Item No.
Laser Distance Meters							
65 ft.	±1/8"	(2) AAA	Distance	(2) AAA Batteries	Bosch Blaze	GLM 20	**49YZ93**
	±1/8"	AAA	Distance	—	Milwaukee	48-22-9801	**489K09**
150 ft.	±1/16"	AAA	Distance	—	Milwaukee	48-22-9802	**489K10**
164 ft.	±1/16"	(2) AA Alkaline	Distance, Indirect Measuring, Square Footage, Volume	Hand Strap, (5) Target Cards, Pouch	Bosch	GLM165-40	**450W76**
165 ft.	±1/16"	(2) AAA Batteries, Nylon Pouch, Hand Strap, (2) Target Cards	Addition and Subtraction, Area, Distance, Inclinometer, Indirect Measure, Volume	Nylon Pouch	Bosch Blaze	GLM 50 C	**45JL17**
	±1/16"	(2) AAA Alkaline	Area, Digital Level, Distance, Volume	Wrist Strap, Pouch	Bosch	GLM165-10	**450W75**
200 ft.	±1/16"	(2) AAA	Area, Distance	Lanyard, Holster, Belt Clip, (2) AAA Batteries	Leica Disto	E7100I	**31XM64**
260 ft.	±3/32"	AAA	Area, Distance, Indirect Measure, Pythagoras, Volume	(2) AAA Batteries, Nylon Carrying Case	Fluke	FLUKE-419D/WWG	**24Y894**
330 ft.	±1/16"	(2) AAA	Continuous Measurement, Distance, Min/Max Measuring	Batteries, Belt Pouch, Lanyard	Leica Disto	D2	**49LX72**
	±1/16"	AAA	Distance	—	Milwaukee	48-22-9803	**489K11**
400 ft.	±1/16"	Rechargeable Lithium-Ion	Area, Distance, Volume	Micro USB Cable, Battery Charger, Hand Strap, Pouch	Bosch	GLM 400 CL	**488Z80**
660 ft.	±1/16"	(2) AA	Area, Distance, Indirect Measure, Trapezoid, Triangles, Widths From A Safe Location, Volume	Nylon Holster, Lanyard, Batteries	Leica Disto	E7500I	**21EK16**
825 ft.	±1/16"	(4) AAA	Angle, Area, Continuous Measure, Distance, Single/Double/Combined Indirect Measure, Multi-Surface, Stake Out, Trapezoid	Hand Strap, (4) AAA Batteries, and Belt Pouch	Bosch	GLR825	**38P110**
1000 ft.	±1/16"	Rechargeable Lithium-Ion	Area, Create dxf Files to Load into CAD, Distance, Measure in Picture, Remote Measure Through P2P Function, Volume	Holster, Smart Base Extension, Hand Loop, USB Charger, USB Cable	Leica Disto	S910	**40EV37**

Description	Characteristics	Brand	Item No.
Leica Accessories			
Corner Target Plate	Self Adhesive, 2 ⅞ x 3 ⅞", Can Be Connected For Outside Corner Measurements	Leica Disto	**1UDN8**
Large Target Plate	8 ½ X 11"	Leica Disto	**1UDN9**

BOSCH JOHNSON CST/berger

Rotary Laser Levels

All kits include batteries, instruction manual, and carrying case.

LEVELING TYPES

Horizontal or Vertical Leveling: Rotary lasers that include vertical leveling can be rotated onto their side for vertical alignment and plumb applications.

Electronic and Pendulum Self-Leveling: More accurate results than manual lasers, and have an out-of-level indicator or alarm.

Manual-Leveling: External leveling screws and level vials are used to manually level the laser.

BEAM COLORS

Red Laser Beams: Cost effective and ideal for indoor use, most visible in low light situations.

Green Laser Beams: More visible than red beams, particularly in brighter light situations.

GRADE CAPABILITY

Single Slope: Laser can be tilted on one axis in order to achieve sloped grading.

Dual Slope: Laser can be tilted on both the X and Y axis to achieve a grade with dual slope.

Slope degree can be manually calculated or inputed in lasers with 'automatic slope' capability.



No. 36HZ12



No. 468V57



No. 45JL21



No. 4WMC2

Leveling Type	No. of Beams	No. of Dots	No. of Lines	Laser Color	Range w/o Detector	Range w/ Detector	Accuracy	Includes	Brand	Item No.
Horizontal										
Exterior										
Pendulum Self-Leveling	1	0	1	Red	130 ft.	530 ft.	± 3/16" @ 100 ft.	Receiver, Tripod, 8 ft. Grade Rod, (6) AA Batteries, All-In-One Carry Case	Bosch	**38EW48**
Electronic Self-Leveling	1	0	1	Red	100 ft.	1300 ft.	± 3/32" @ 100 ft.	Laser Receiver, Bracket, (2) D Batteries, 9V Battery, Aluminum Tripod, Grade Rod, Carrying Case	Bosch	**39CE75**
Electronic Self-Leveling	1	0	2	Red	130 ft.	1650 ft.	± 1/16" @ 100 ft.	Internal Li-Ion Battery in Receiver and Rotary, Two-in-One Receiver/ Remote Control, Bracket, Charger, Carrying Case, Grade Rod, Tripod	Bosch	**36HZ12**
Electronic Self-Leveling	1	0	1	Red	200 ft.	2000 ft.	± 1/16" @ 100 ft.	NiMH Rechargeable Battery Pack, 6V Battery Adapter, Remote Control with 9V Battery, Detector with 9V Battery and Clamp, Hard-Shell Carrying Case	Johnson	**1YRU6**
Electronic Self-Leveling	1	0	1	Red	200 ft.	1640 ft.	± 3/32" @ 100 ft.	Detector with Bracket, Aluminum Tripod, 8 Ft. Leveling Rod, Carrying Case.	CST/Berger	**45JL20**
Electronic Self-Leveling	1	0	1	Red	100 ft.	2000 ft.	± 1/16" @ 100 ft.	NiMH Rechargeable Battery Pack, 6V Battery Charger, Remote Control, Detector with Clamp and 9V Battery, Tripod, 13 ft. Grade Rod, Magnetic Target, Tinted Glasses, Hard-Shell Carrying Case	Johnson	**468V57**
Interior and Exterior										
Electronic Self-Leveling	1	1	1	Red	200 ft.	2000 ft.	± 3/32" @ 100 ft.	Remote Control, Detector with Bracket, Laser Glasses, Magnetic Target, Adjustable Wall Mount, Tripod, 8 Ft. Leveling Rod, Carrying Case	CST/Berger	**45JL21**
Horizontal and Vertical										
Exterior										
Electronic Self-Leveling	2	1	0	Red	200 ft.	2000 ft.	± 1/16" @ 100 ft.	Li-ion Rechargeable Battery Pack, Battery Comparent (Batteries not Included), Li-ion Battery Adapter, Remote Control with (2) AA Batteries, Detector with 9V Battery and Clamp, Sighting Scope, Vertical Bracket, Fine Adjustment Plate, Hard-Shell Carrying Ca	Johnson	**23J474**
Interior										
Electronic Self-Leveling	2	1	2	Green	400 ft.	1200 ft.	± 1/8" @ 100 ft.	NiMH Rechargeable Battery Pack, Battery Comparent (Batteries not Included), 6.4V Battery Adapter, Remote Control with 9V Battery, Wall/ Ceiling Mount, Tinted Glasses, Target, Hard-Shell Carrying Case	Johnson	**6XUR3**
Pendulum Self-Leveling	2	1	2	Green	400 ft.	1200 ft.	± 3/16" @ 100 ft.	Remote Control with 9V Battery, Wall/Ceiling Mount, NiMH Rechargeable Battery Pack, Battery Compartment (Batteries not Included), 6.4V Battery Adapter, Tinted Glasses, Magnetic Target, Hard-Shell Carrying Case	Johnson	**2CGJ9**
Interior and Exterior										
Electronic Self-Leveling	1	1	1	Red	200 ft.	1000 ft.	± 1/8" @ 100 Ft.	Laser Receiver, Mounting Bracket, Remote Control, Wall Mount, Target, Laser Glasses, (2) D Batteries, 9V Battery, Aluminum Tripod, Grade Rod, Carry Case	Bosch	**39CE78**
Electronic Self-Leveling	2	1	2	Red	200 ft.	2000 ft.	± 1/8" @ 100 ft.	NiMH Battery, 6.4V Adapter, Alkaline Battery Pack,Remote Control, Detector with Bracket, Batteries,Tinted Glasses, Hard-Shell Carrying Case	Johnson	**4WMC2**
Electronic Self-Leveling	2	1	2	Red	200 ft.	1500 ft.	± 1/8" @ 100 ft.	Detector with Battery, Glasses, Rechargeable Battery Pack, Target, 6V Adapter, Alkaline Battery Compartment (Batteries Not Included), Remote Control with Battery, Hard-Shell Carrying Case	Johnson	**6XUR2**
Electronic Self-Leveling	2	1	2	Red	200 ft.	1500 ft.	± 1/8" @ 100 ft.	Alkaline Batteries, Tined Glasses, Soft-Sided Carrying Case	Johnson	**6XUR4**
Electronic Self-Leveling	2	1	2	Red	200 ft.	1500 ft.	± 1/8" @ 100 ft.	Detector With Clamp and 9V Battery, Tinted Glasses, Target, Charger, Alkaline Battery Compartment (Batteries Not Included), Remote Control With 9V Battery, NiMH Rechargeable Battery Pack, Multi-Function Mount, Hard-Shell Carrying Case	Johnson	**25K790**
Pendulum Self-Leveling	2	1	1	Red	200 ft.	800 ft.	± 1/8" @ 50 ft.	Detector with Clamp, Tinted Glasses, Alkaline Batteries, Hard-Shell Carrying Case	Johnson	**1YRU3**
Manual Leveling	2	1	1	Red	200 ft.	800 ft.	± 1/4" @ 100 ft.	(4) AA Alkaline Batteries, Wall/Ceiling, Tinted Glasses, Multi-Function Mount, Soft-Sided Carrying Case	Johnson	**25K787**
Self-Leveling	1	2	0	Red	200 ft.	100 ft.	± 1/8" @ 100 ft.	RD5 Laser Detector with Bracket, Adjustable Wall Mount, Remote Control, Aluminum Tripod, Grade Rod, Laser Glasses, Magnetic Target, Batteries, Hard Case	Bosch	**450W74**



JOHNSON DEWALT BOSCH STANLEY

Line and Dot Lasers

Include batteries, carrying case, and instruction manual. 360° Line Lasers project a continuous horizontal reference line. Self-Leveling and Line and Dot Lasers offer fast setup and feature out-of-level indicators.



No. 49Z235



No. 31CN23



No. 29PG34

Description	Range w/ Detector	Range w/o Detector	Accuracy	Accessories Included*	Brand	Item No.
Horizontal						
2-Lines, Green Beam, Manual Floor Level	—	150 ft.	± 1/16" @ 20 ft.	E	Johnson	**21XK28**
2-Lines, Red Beam, Manual Floor Level	—	65 ft.	± 1/16" @ 20 ft.	E	Johnson	**21XK27**
4-Lines, Red Beam, 360° Line Generator	300 ft.	200 ft.	± 1/8" @ 50 ft.	B, F	Johnson	**23J470**
5-Lines, 2-Dots, Red Beam, Electronic Self-Leveling Rear-Projecting Line	165 ft.	100 ft.	± 1/8" @ 30 ft.	—	DeWalt	**31CL60**
5-Lines, 5-Dot, Red Beam, Electronic Self-Leveling	165 ft.	100 ft.	± 1/8" @ 30 ft.	—	DeWalt	**31CN25**
Horizontal and Vertical						
2-Dot, Self Leveling, Green Beam	100 ft.	65 ft.	± 1/8" @ 100 ft.	—	DeWalt	**410D10**
2-Dot Self-Leveling Cross Line Combo w/ Red Laser Beam	165 ft.	65 ft.	Lines ± 1/8" @ 33 ft., Dots ± 3/32" @ 33 ft.	—	Bosch	**49Z232**
2-Line, Red Beam, Cross Line, Self Leveling	30 ft.	30 ft.	± 5/16" @ 30 ft.	B	Bosch	**49Z231**
2-Lines, 2-Dot, Red Beam, Electronic Self-Leveling	165 ft.	50 ft.	± 1/8" @ 30 ft.	—	DeWalt	**31CL61**
2-Lines, Green Beam, Self-Leveling	30 ft.	30 ft.	± 3/16" @ 30 ft.	A, D, E	Johnson	**468V65**
2-Lines, Green Beam, Self-Leveling Cross Line	100 ft.	100 ft.	± 1/8" @ 33 ft.	B	Bosch	**49Z235**
2-Lines, Red Beam, Electronic Self-Leveling	165 ft.	50 ft.	± 1/8" @ 30 ft.	—	DeWalt	**31CN23**
2-Lines, Red Beam, Pendulum Self-Leveling	—	40 ft.	± 5/16" @ 40 ft.	—	STANLEY	**31CN18**
2-Lines, Red Beam, Pendulum Self-Leveling Cross Line	—	150 ft.	± 1/8" @ 35 ft.	B, F	Johnson	**21XK25**
2-Lines, Red Beam, Self-Leveling Cross Line	50 ft.	50 ft.	± 1/8" @ 33 ft.	A, B, D, E	Bosch	**49Z234**
3-Dot, Red Beam Self-Leveling Laser	—	—	± 1/8" @ 50 ft.	B	Bosch	**31NE36**
3-Dot, Self Leveling, Green Beam	—	100 ft.	± 1/8" @ 30 ft.	—	DeWalt	**410D07**
3-Line,	165 ft.	100 ft.	± 1/8" @ 30 ft.	3-Line, Green Beam, Automatic Self-Leveling	DeWalt	**49XH80**
3-Line, Green Beam, Bluetooth Compatability	300 ft.	200 ft.	± 3/32" @ 30 ft.	B	Bosch	**450W80**
3-Line, Red Beam,	300 ft.	200 ft.	± 3/32" @ 30 ft.	B	Bosch	**450W78**
3-Line, Red Beam, Bluetooth Compatability	300 ft.	200 ft.	± 3/32" @ 30 ft.	B	Bosch	**450W79**
3-Lines, Green Beam, Self-Leveling	100 ft.	100 ft.	± 1/8" @ 30 ft.	B, D, E,	Johnson	**468V66**
3-Lines, Red Beam, Electronic Self-Leveling	165 ft.	50 ft.	± 1/8" @ 30 ft.	—	DeWalt	**31CN24**
5-Dot, Red Beam, Self-Leveling Laser	100 ft.	100 ft.	± 1/8" @ 50 ft.	B	Bosch	**29PG34**
5-Lines, 5-Dot, Red Beam	—	200 ft.	± 1/8" @ 50 ft.	D, E, F	Johnson	**1YRV2**

**** A=Detector w/Clamp; B=Wall Mount; D=Tinted Glasses; E=Target; F=Mounting Strap.***

Sheave, Industrial, Mining, and Pipe Alignment Lasers

JOHNSON



No. 2CGJ8

Sheave Alignment—Use 3 precision-ground magnetic targets and 1 precision line laser to assist with belt and sheave installation.

Industrial Alignment—Lasers are used to assist with installing and aligning heavy equipment, conveyors, and paint lines.

Mining Lasers—MSHA (Mining Safety and Health Administration) approved.

Pipe Laser—Waterpoof laser with easy grade input.



No. 5TCX2

Description	Laser Type	Beam Color	Range w/o Detector	Accuracy	Item No.
Sheave Alignment					
Sheave Alignment Kit	Line	Green	150 ft.	± 1/16" @ 10 ft.	**5TCW0**
Sheave Alignment Kit	Line	Red	100 ft.	± 1/16" @ 10 ft.	**2CGJ8**
Industrial Alignment					
Industrial Alignment Dot Laser w/ 110VAC	Dot	Green	250 ft.	± 1/8" @ 100 ft.	**5TCW3**
Industrial Alignment Dot Laser w/ 110VAC	Dot	Red	150 ft.	± 1/8" @ 100 ft.	**5TCW1**
Industrial Alignment Dot Laser w/ 4-24VDC	Dot	Red	150 ft.	± 1/8" @ 100 ft.	**5TCW2**
Industrial Alignment Cross Line w/ 110VDC	Line	Green	150 ft.	± 1/16" @ 10 ft.	**5TCW8**
Industrial Alignment Cross Line w/ 110VDC	Line	Red	100 ft.	± 1/16" @ 10 ft.	**5TCW7**
Precision Level	Dot	Green	250 ft.	± 1/16" @ 100 Ft	**5TCX0**
Precision Level	Dot	Red	150 ft.	± 1/16" @ 100 Ft	**5TCW9**
Mounting Bracket for 5TCW1, 5TCW2, 5TCW3	—	—	—	—	**5TCW6**
Aperture Package for Industrial Dot Lasers	—	—	—	—	**5TCW4**
70° Fan Angle Aperture for Industrial Dot Lasers	—	—	—	—	**5TCW5**
Mining Lasers					
MSHA Mining Alignment Laser	Dot	Green	3000 ft.	± 1/8" @ 100 ft.	**23J481**
MSHA Mining Alignment Laser	Dot	Red	2000 ft.	± 1/8" @ 100 ft.	**23J480**
MSHA Mining Alignment Laser	Dot	Green	1500 ft.	± 1/8" @ 100 ft.	**23J483**
MSHA Mining Alignment Laser	Dot	Red	500 ft.	± 1/8" @ 100 ft.	**23J482**
Pipe Laser					
Pipe Laser Electronic Self-Leveling	Dot	Red	800 ft.	± 1/16" @ 100 ft.	**5TCX2**
Adjustable Pipe Laser Trivet Stand	—	—	—	—	**23J476**



Leica

Theodolite

Reflectorless and/or prism measurement capabilities. Data storage via USB memory stick.

Magnification	Field of View	Working Range	Accuracy	Includes	Item No.
20x	1° @ 30 ft.	3000 ft.	±1/16" @ 4 63/64 ft.	Carrying Case, Plumb Bob, Rechargeable Battery, Tool Kit, Battery Charger	**53VU90**

Optical Levels and Transit Levels

- For additional laser and optical laser level accessories, see Grainger.com®

OPTICAL LEVELS

DeWalt® Auto Level—Magnetically dampened compensator for optimum range and accuracy. Heavy-duty leveling base is fast and easy to set up and level. 360° horizontal circle for precise measuring of horizontal angles.

DeWalt® Builder's Level—Protected leveling vial for jobsite durability. Heavy-duty leveling base is fast and easy to set up and level. 360° horizontal circle with vernier scale for precise measuring of horizontal angles.

Johnson Automatic Levels—Wire-hung compensator with reinforced housing has a large aperture for crisp images. Durable scope and bubble vial. Horizontal circle with easy-to-read black-on-white graduations. Large, stable base.

Johnson Builder's Levels—Has a horizontal circle graduated to single degrees and lens with protective sun shade. Horizontal tangent screw for precise movement control. Top-mounted leveling vial with large, easy-to-turn leveling screws. Suitable for light construction work.

TRANSIT LEVELS

DeWalt® Transit Level—Transit capability allows user to determine vertical angles. 360° horizontal circle with vernier scale for precise measuring of horizontal angles. Protected leveling vial for jobsite durability. Heavy-duty leveling base is fast and easy to set up and level.

Johnson Builder's Transit Levels—Graduated circle reads to single degree and to ¼-degree by vernier. Vernier arc reads 0° to 45°. Clamp and tangent screws for positive leveling action when used as a level.



No. 4EB83



No. 6ZTN5



No. 25K798

No. 2CGJ5

Description	Working Range	Accuracy	Includes	Brand	Item No.
Optical Levels					
20X Builder's Level	200 ft.	±1/4" @ 100 ft.	Hard Carrying Case, Plumb Bob, 5/8" Heavy Duty Tripod, 8ft. Aluminum Grade Rod	DeWalt	**4EB83**
22x Builders Level Kit	200 ft.	±3/16" @ 100 ft.	Tripod, Grade Rod, Carrying Case	Johnson	**25K794**
26X Auto Level	300 ft.	±1/32" @ 100 ft.	Case, 8 Foot Aluminum Grade Rod And Tripod	DeWalt	**4EB82**
30x Automatic Level	400 ft.	±1/16" @ 200 ft.	Hard Shell Carrying Case	Johnson	**6ZTN6**
30x Automatic Level Kit	400 ft.	±1/16" @ 200 ft.	Tripod, Grade Rod, Carrying Case	Johnson	**25K797**
32x Automatic Level	450 ft.	±1/16" @ 200 ft.	Hard Shell Carrying Case	Johnson	**6ZTN5**
32x Automatic Level Kit	450 ft.	±1/16" @ 200 ft.	Tripod, Grade Rod, Carrying Case	Johnson	**25K798**
Transit Levels					
20X Transit Level	200 ft.	±1/4" @ 100 ft.	Hard Carrying Case, Plumb Bob, 5/8" Heavy Duty Tripod, 8ft. Aluminum Grade Rod	DeWalt	**4EB84**
22X Builders Transit Level	200 ft.	±3/16" @ 100 ft.	Hard Shell Carrying Case	Johnson	**2CGJ5**
22X Builders Transit Level Kit	200 ft.	±3/16" @ 100 ft.	Tripod, 13 ft. Grade Rod, Carrying Case	Johnson	**25K795**

Description	Includes	Item No.
Detectors and Targets		
Green Beam Rotary Laser Detector	Clamp and Battery	**49ET12**
Red Beam Two-Sided Laser Detector, Rotary		**3RXD4**
Red Beam Laser Detector Kit	Clamp, Battery, Target Glasses	**3RXD5**
Red Beam Laser Detector, Grade Rod or Machine Mountable 240°	Clamp, Battery	**4WMC4**
Red Beam Laser Detector, Machine Mountable w/Magnets and Clamps	Magnets, Clamps, Cable, Charger, Rechargeable Batteries, Hard Shell Carrying Case	**4WMC6**
Remote Display for No. 4WMC6	Cable	**4WMC7**
Line Generator Laser Detector	Clamp and Battery	**3RXD9**
Red Beam Rotary Laser Detector	Clamp and Batteries	**3RXD6**
Green Beam Kit	Glasses, Target	**1YRR8**
Magnetic Floor Target, Red	—	**1YRT8**
Enhancement Glasses, Red		**1YRV4**
Mounts		
Interior Laser Pole	Carrying Bag	**1YRT2**
Wall and Ceiling		**1YRT3**
Telescoping Leveling Rods, Aluminum w/Silver Anodized Finish on Front and Hi-Visibility Yellow on Back		
Rectangular, 8 ft.	—	**6ZTL6**
Rectangular, 13 ft.		**1YRT4**
Rectangular, 16 ft.		**1YRT5**
Telescoping Leveling Rods, Fiberglass		
Rectangular, 16 ft.	Carrying Case	**6ZTL5**
Rectangular, 25 ft.		**6ZTL4**
Tripods, Aluminum		
Universal Tripod Kit Tripod 37 to 59", Grade Rod 13 Ft.	Adjustable Aluminum Tripod and Telescoping Aluminum Grade Rod	**1YRR6**
Tripod, Adjustable from 23 to 65"	Tripod Adapter to Convert 5/8-11 to ¼-20	**1YRV5**
Tripod, Adjustable from 41¾ to 67"	Carrying Strap	**1YRT7**
Tripod, Adjustable from 48 to 60"		**6ZTL7**
Tripod, Adjustable from 49⅞ to 118⅛"		**1YRT6**
Tripods, Fiberglass		
Tripod, Adjustable from 48 to 66"	—	**6ZTL8**

Laser Level Accessories



No. 3RXD4



No. 1YRR6



Box Beam w/Hand Holes, Magnetic
No. 4MRV5



I-Beam Magnetic
No. 6A508



I-Beam Magnetic
No. 4MRW1



Box Beam, Magnetic
No. 4MRV4

Levels

Box Beam—Extruded aluminum box beam profile. Solid acrylic vials with easy read green vial fluid. Rubberized shock protecting end caps.

Box Beam, Magnetic—Extruded aluminum box beam profile. Strong holding rare earth magnets. Solid acrylic vials with green vial fluid. Rubberized shock protecting end caps.

I-Beam, Top-Reading—Aluminum frame with green acrylic vials. Top-read window and protective end caps.

I-Beam, Magnetic—All models have a full-length, strong holding magnetic strip.

Big J I-Beam—Oversized aluminum frames, and oversized acrylic barrel vials with green vial fluid.

Big J I-Beam, Magnetic—Magnetic edge holds level securely to ferrous surfaces. Rubberized, antishock, antislip end caps protect frame.

Box Level Set—Rare Earth magnets allow hands-free work with metal applications.

Bamboo Hardwood Levels—Easy-to-clean laminated bamboo frames have excellent tensile strength and durability. Won't absorb moisture, and resist heat and extreme cold without cracking or warping. Feature 6 acrylic vials, shock-resistant rubberized end caps, and metal binding frame.

Plastic Levels—Structo-Cast® plastic frame is nonconductive and will not scratch fine wood or painted surfaces.

Description	Total No. of Vials	No. of Plumb Vials	No. of Level Vials	Brand	Item No.
Aluminum Levels					
24"L					
Big J Box Level, 4 Magnets, Orange	3	2	1	Johnson	**48FX45**
Big J Box Level, Nonmagnetic, Orange	3	2	1	Johnson	**48FX41**
Big J I-Beam Level, Nonmagnetic	3	2	1	Johnson	**48PG02**
Box Beam, Magnetic	3	2	1	Westward	**4MRW6**
Box Beam w/Hand Holes, Magnetic	3	2	1	Westward	**4MRV5**
Box Level, 3 Magnets, Orange	3	2	1	Johnson	**48TJ46**
Box Level, 4 Magnets, Yellow	3	2	1	Johnson	**48FX38**
Box Level, Nonmagnetic, Silver	3	2	1	Johnson	**48FX48**
Box Level, Nonmagnetic, Yellow	3	2	1	Johnson	**48FX34**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F43**
I-Beam	3	1	1	Westward	**4MRW5**
I-Beam, Magnetic	3	2	1	Johnson	**6A508**
I-Beam, Magnetic	3	2	1	Westward	**4MRW1**
I-Beam, Top Reading	3	2	1	Johnson	**6X992**
I-Beam, Top Reading	4	1	2	Westward	**4MRV7**
I-Beam Level, V Groove, Blue/Black	3	2	1	Westward	**32ZU57**
I-Beam Level, V Groove, Shock Resistant, Blue/Black/White	3	2	1	Westward	**32ZU64**
I-Beam Level, V Groove, Shock Resistant, with Magnet, Blue/Black/White	3	2	1	Westward	**32ZU65**
I-Beam Level, V Groove, with Magnet, Blue/Black	3	2	1	Westward	**32ZU58**
Magnetic Level	3	1	1	Johnson	**49ET13**
48"L					
Big J I-Beam Level, Nonmagnetic	4	2	2	Johnson	**48PG03**
Big J Magnetic	4	2	2	Johnson	**49ET14**
Box Beam, Magnetic	3	2	1	Westward	**4MRV4**
Box Beam w/End Caps, Magnetic	3	2	1	Westward	**4MRV6**
Box Level, 8 Magnets, Orange	3	2	1	Johnson	**48FX46**
Box Level, 8 Magnets, Yellow	3	2	1	Johnson	**48FX39**
Box Level, Nonmagnetic, Orange	3	2	1	Johnson	**48FX42**
Box Level, Nonmagnetic, Silver	3	2	1	Johnson	**48FX49**
Box Level, Nonmagnetic, Yellow	3	1	1	Johnson	**48FX35**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F44**
I-Beam	3	2	1	Westward	**4MRV8**
I-Beam, Magnetic	3	2	1	Johnson	**6A509**

Description	Total No. of Vials	No. of Plumb Vials	No. of Level Vials	Brand	Item No.
I-Beam, Magnetic	3	2	1	Westward	**4MRW2**
I-Beam, Top Reading	3	2	1	Johnson	**2W396**
I-Beam Level, V Groove	3	2	1	Westward	**32ZU59**
I-Beam Level, V Groove, Shock Resistant	3	2	1	Westward	**32ZU66**
I-Beam Level, V Groove Shock Resistant with 8 Magnets	3	2	1	Westward	**32ZU67**
I-Beam Level, V Groove with 8 Magnets	3	2	1	Westward	**32ZU60**
I-Beam w/End Caps, Magnetic	3	2	1	Westward	**4MRV9**
72"L					
Big J Box Level, Nonmagnetic	4	2	2	Johnson	**48FX43**
Big J I-Beam Level, Nonmagnetic	5	3	2	Johnson	**48PG04**
Box Beam	3	2	1	Westward	**4MRW7**
Box Level, Nonmagnetic	3	2	1	Johnson	**48FX36**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F45**
I-Beam, Magnetic	3	2	1	Westward	**4MRW4**
I-Beam Level, Nonmagnetic, Blue/Black, LED Light	3	2	1	Westward	**32ZU61**
I-Beam Level, Nonmagnetic, V Groove, Shock Resistant, Blue/Black/White	3	2	1	Westward	**32ZU68**
I-Beam Level, V Groove, Shock Resistant with 12 Magnets Blue/Black/White	3	2	1	Westward	**32ZU69**
I-Beam Level, V Groove with 12 Magnets Blue/Black, LED Light	3	2	1	Westward	**32ZU62**
78"L					
Big J Box Level, Magnetic	4	2	2	Johnson	**48FX47**
Box Level, Magnetic	3	2	2	Johnson	**48FX40**
I-Beam, Magnetic	5	3	2	Johnson	**6A510**
96"L					
Box Level, Nonmagnetic	3	2	1	Johnson	**48FX37**
Box Level, Nonmagnetic	4	2	2	Johnson	**48FX44**
Aluminum Level Sets					
Rare Earth Box Level Set, 32" and 78"L	3	2	1	Johnson	**6ZTN8**
Bamboo Hardwood Levels					
Bamboo Wood Level, 24"L	6	4	2	Johnson	**6XUR6**
Bamboo Wood Level, 48"L	6	4	2	Johnson	**6XUR7**
Plastic Levels					
Non-Conductive, 24"L	3	1	2	Johnson	**23J463**
Non-Conductive, 48"L	3	1	3	Johnson	**23J465**



No. 21XK41



No. 1TLH8

Laser and Electronic Levels

Include batteries, carrying case, and instruction manual.

Laser Torpedo Levels—Levels have aluminum frames with acrylic vials and rare earth magnets. No. 1YRR9 has a rotating swivel head with laser beam that projects a point, or a vertical or horizontal line. Reads plumb, level, 45°, and cross check. No. 1YRT1 projects 3 continuous beams reading plumb, level, and 90°. Includes a leveling base.

Digital Electronic Levels/Inclinometers—No. 1TLH7 has large LCD that simultaneously displays level and angle. Beep sound signals plumb and level. Feature automatic digit inversion, hold function, magnetic base, ¼-20" tripod thread, low-battery warning, and automatic shutoff. Angle displays in degrees; inclination displays in degrees or percent. Features lockable arm and laser beam. Magnetic base. Nos. 1TLH8 and 1TLH6 provide 4 x 90° readings of level, and tilt in degrees or percent slope with audible alert. No. 1TLH8 has a laser beam. Display can rotate up to 180°.

Description	Range (ft.)	Accuracy	L (in.)	Item No.
Laser Torpedo Levels				
Magnetic	0 to 90	±1/8 @ 50 ft."	7½	**1YRR9**
Magnetic 3-Beam	0 to 90	±1/8 @ 50 ft."	9½	**1YRT1**
Digital Electronic Levels/Inclinometers				
Digital Level	—	0.01°	5¼	**5TCX1**
Digital Level	0 to 90	0.1° for 0° and 90°, All Other Angles: 0.2°	6½	**21XK41**
Laser Level/Angle Finder	0 to 90	±0.1 °	23	**1TLH7**
Level/Inclinometer	0 to 90	±0.1 °	6	**1TLH6**
Laser Level/Inclinometer	0 to 90	±0.1 °	12	**1TLH8**
Digital Level	—	±1/16"	48	**21CK33**
Digital Level	—	0.29"		**38HV82**

Levels and Vials

TORPEDO LEVELS

Glo-View® Magnetic Rare Earth

Glo-View® vial enhances readability in dim lighting. 2 V-groove working edges and 3 rare earth magnets. High-strength polymer frame.

Contractor/Industrial

Features 3 acrylic 360° reading vials (level, plumb, and 45°). Level vial is also top-reading. Easy-viewing SurroundView® vials.


No. 4MRW9


No. 4MRX8


No. 1TDY8


No. 6XUU2

Description	L	Total No. of Vials	Brand	Item No.
Torpedo Levels				
Magnetic, Aluminum	7"	3	Milwaukee	**52ZW33**
Magnetic, Aluminum	9"	3	Westward	**4MRX2**
Magnetic, Aluminum	12"	4	Johnson Level & Tool	**49ZC22**
Magnetic, Aluminum, Bubble, Anodized	9"	3	Westward	**32ZU63**
Magnetic Strip, Aluminum, Glow Illumination	9"	3	Westward	**4MRW9**
Magnetic Strip, Aluminum, Top Read	9"	3	Westward	**4MRX1**
Magnetic w/Molded Frame	9"	3	Johnson	**23J462**
Magnetic Rare Earth, Aluminum	6"	4	Johnson	**21XK11**
Magnetic Rare Earth, Aluminum	6¼"	4	Westward	**4MRX9**
Magnetic Rare Earth, Aluminum	9"	4	Westward	**4MRX8**
Magnetic Rare Earth, Aluminum	9"	4	Johnson	**21XK12**
Die-Cast Aluminum, Magnetic	10"	3	Milwaukee	**52ZW34**
Glo-View® Magnetic Rare Earth	9"	3*	Johnson	**1TDY8**
Strip Magnet Edge, Top Read	9"	3*	Johnson	**1TDZ1**
Contractor/Industrial	9"	3*	Johnson	**6X995**
I-Beam Level w/Ruled Edge, Aluminum	24"	3*	Johnson	**23J464**
I-Beam Level w/Ruled Edge, Aluminum	48"	3*	Johnson	**23J466**
Specialty Levels				
Cross Check Level	2¼"	2	Johnson	**6C225**
Cross Check Level, Pkg. 10	2¼"	2	Johnson	**6XUT9**
Line Level, Aluminum	3"	1	Johnson	**6A512**
Pocket Level w/Magnetic Tip	5"	1	Johnson	**2H394**

**** Third vial is 45° vial.***

Dia. (in.)	L (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bulls Eye Levels					
0.472	—	Johnson	SM051	**6XUT1**	10
0.590	—	Johnson	SM053	**6XUT2**	10
0.669	—	Johnson	SM061	**6XUT7**	10
0.709	—	Johnson	SM054	**6XUT3**	10
0.787	—	Johnson	SM055	**6XUT4**	10
1.18	—	Johnson	SM100	**6XUT8**	10
1.180	—	Johnson	100	**2H366**	1
1.181	—	Johnson	SM056	**6XUT5**	10
1.575	—	Johnson	SM057	**6XUT6**	10
In-Mounting Base Level Vials					
—	2.15	Johnson	SM250	**6XUU1**	10
—	2.63	Johnson	SM252	**6XUU0**	10
Barrel Level Vials					
0.37	1.246	Johnson	SM904	**6XUU4**	25
0.371	1.373	Johnson	SM905	**6XUU3**	25
0.371	1.544	Johnson	SM901	**6XUU2**	25
0.371	1.544	Johnson	SM906	**6XUU6**	25
0.373	0.962	Johnson	SM920	**6XUU5**	25
0.500	1.375	Johnson	SM907	**6XUU7**	25
0.500	1.750	Johnson	SM909	**6XUU9**	25
Curved Level Vials					
0.358	1.173	Johnson	SM911	**6XUV0**	25

Electrician's Mini-Magnet Levels


No. 5LE33


No. 11A474

Description	L	Total No. of Vials	No. of Plumb Vials	Brand	Mfr. Model	Item No.
Mini-Magnet Torpedo Level	5½"	4	1	Greenlee	L77	**4GA95**
Magnetic Torpedo Level	8½"	4	1	Greenlee	L107	**5LE33**
Magnetic Torpedo Level	8"	4	1	Westward	—	**11A474**

Angle Finders

Accurately measure angles with no interruptions from cold, heat, or magnetic fields. Select models feature magnetic bases and V-groove sides, while others feature plumb and level vials.


No. 30PA71


No. 6A511


No. 4MRW3


No. 21XK38

Description	Lens Dia.	No. of Level Vials	Brand	Mfr. Model	Item No.
Angle Finders and Pitch/Slope Locators					
0 to 90° Range					
Angle Finder	2¾"	0	Westward	—	**30PA66**
Angle Finder	2¾"	2	Westward	—	**30PA71**
Angle Finder, 3½" Base	4"	0	Westward	—	**30PA69**
Angle Finder, 3½" Base	4"	1	Westward	—	**30PA70**
Angle Finder, 5" Base	4"	0	Westward	—	**30PA67**
Angle Finder, 5" Base	4"	2	Westward	—	**30PA68**
Angle Finder, Magnetic Base	5	—	Starrett	AM-2	**2ZUY8**
Protractor/Angle Finder	5⅛"	0	Johnson	700	**6A511**
Protractor/Angle Finder	3 15/16"	—	Westward	—	**4MRW3**
Pitch and Slope Locator	5 ⅜"	—	Johnson	750	**5LC25**

Description	Characteristics	No. of Level Vials	Brand	Mfr. Model	Item No.
Digital Angle Finders					
0 to 180° Range					
Angle Finder, Magnetic, 2 Button	(2) Button, Relative Measurements, Secures to Any Magnetic Surface, LCD Display	0	Johnson	1886-0100	**21XK29**
Angle Finder, Magnetic, 2 Button	(2) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display	0	Johnson	1886-0000	**21XK30**
Angle Finder, Magnetic, 3 Button	(3) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display, Hold Function	0	Johnson	1886-0200	**21XK36**
Angle Finder, Magnetic, V-Groove	(3) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display, Hold Function, V-Groove for Mounting on Steel Tubing or Pipe	0	Johnson	1886-0300	**21XK37**
Angle Finder, Magnetic, V-Groove	(3) Button, Absolute and Relative Measurements, LCD Display, Hold Function, V-Groove for Mounting on Steel Tubing or Pipe	1	Johnson	1886-0400	**21XK38**
0 to 225° Range					
Angle Finder, Aluminum 10"L	—	1	Johnson	1750-1000	**21XK40**
Angle Finder, Aluminum 12"L	—	2	Johnson	1750-1200	**21XK39**
0 to 360° Range					
Angle Finder, Stainless Steel 7"L	—	0	Johnson	1888-0700	**21XK31**
Angle Finder, Stainless Steel 11"L	—	0	Johnson	1888-1100	**21XK32**
Angle Finder, Stainless Steel 19"L	—	0	Johnson	1888-1900	**21XK33**



Adjustable Trammel
No. 3ZH21



Contour Gauge
No. 2H378



Pivot Square®
No. 2GYA2



Large-Capacity Chalk Line Reel
No. 4MHF4



Digital Protractor
No. 21XK42



Combination Square
No. 4MRX3

Layout Equipment

Description	Brand	Item No.
Marking Tools		
5⁄8 to 1 1⁄2" Precision Adjustable Trammel, 6"L	General	3ZH21
Contour Gauge, 6"	Johnson	2H378
Precision Pencil Compass, 9" Diameter	General	3ZH45
Carpenter's Pencil, 7", Pkg. of 12	Johnson	3A920
Pencil/Crayon Sharpener	Johnson	1TDZ2
No-Melt Lumber Crayon, Red, Pk. 12	C.H. Hanson	2GYC1
No-Melt Lumber Crayon, Yellow, Pk. 12	C.H. Hanson	2GYC2
No-Melt Lumber Crayon, Black, Pk. 12	C.H. Hanson	2GYC3
Chalk Line Reels and Line		
100.00' Large Capacity Blue Chalk Line Reel, 8 oz. Capacity, 6:1 Gear Ratio	Irwin Strait-Line	45TY59
100.00' Large Capacity Blue Chalk Line Reel, 8 oz. Capacity, 3:1 Gear Ratio	Irwin Strait-Line	45TY60
100.00' Standard Blue Chalk Line Reel, 3 oz. Capacity, 3:1 Gear Ratio	Keson	492U64
100.00' Large Capacity Red Chalk Line Reel, 8 oz. Capacity, 3:1 Gear Ratio	Irwin Strait-Line	45TY61
150.00' Large Capacity Chalk Line Reel, 20 oz. Capacity	Irwin Strait-Line	45TY57
150.00' Large Capacity Blue Chalk Line Reel, 12 oz. Capacity, 1:1 Gear Ratio	Keson	492U65
150' Large Capacity Chalk Line Reel, 24 oz. Capacity	Keson Giant	4MHF4
100.00' Large Capacity Chalk Line Reel, 15 oz. Capacity	Keson Giant	2UJZ7
100.00' Large Capacity Chalk Line Reel, Mach 8 oz. Capacity	Irwin Strait-Line	45TY58
100.00' Large Chalk Line Reel, Mach 8 oz. Capacity	Irwin Strait-Line	45TY56
100' Replacement Chalk Line for No. 6XGL1	Keson	6XGL3
110' Replacement Chalk Line With Handle for No. 2UJZ7	Keson	6XGL4
140' Replacement Chalk Line With Handle for No. 2UJZ7	Keson	6XGL5
150' Replacement Chalk Line With Handle for No. 2UJZ7	Keson	6XGL6
Marking Chalk Refills		
8 oz., Blue, Temporary	Irwin Strait-Line	5MD41
8 oz., Blue, Standard	Keson	4MHF5
8 oz., Blue, Waterproof	Keson	6XGL9
8 oz., Red, Standard	Keson	4MHF6
8 oz., Red, Waterproof	Keson	6XGL8
8 oz., Red, Permanent	Irwin Strait-Line	3JDJ1
8 oz., White, Standard	Keson	4MHF7
8 oz., Yellow, Standard	Keson	4MHF8
8 oz., Black, Standard	Keson	4MHF9
8 oz., Black, Waterproof	Keson	6XGN0
8 oz., Black, Permanent	Irwin Strait-Line	3JDJ3
8 oz., Glo-Orange, Standard	Keson	4MHG1
2.5 lb., Blue, Temporary	Irwin Strait-Line	5MD48
2.5 lb., Red, Permanent	Irwin Strait-Line	5MD49
2.5 lb., Fluorescent Orange, High Visibility	Irwin Strait-Line	5MD50
3 lb., Blue, Concentrated	Keson	4MHG9
3 lb., Red, Concentrated	Keson	4MHG8
3 lb., Black, Standard	Keson	6XGL7
3 lb., Black, Concentrated	Keson	4MHH1
5 lb., Black, Permanent	Irwin Strait-Line	3JDJ5
5 lb., Blue, Temporary	Irwin Strait-Line	3VU87
5 lb., Blue, Standard	Keson	4MHG3
5 lb., Blue, Waterproof	Keson	6XGN2
5 lb., Red, Standard	Keson	4MHG2
5 lb., Red, Permanent	Irwin Strait-Line	3VU86
5 lb., Red, Waterproof	Keson	6XGN1
5 lb., White, Standard	Keson	4MHG4
5 lb., Yellow, Standard	Keson	4MHG5
5 lb., Black, Standard	Keson	4MHG6
5 lb., Black, Waterproof	Keson	6XGN3
5 lb., Glo-Orange, Standard	Keson	4MHG7
Plumb Bobs		
Brass Plated, 8 oz., 8.7" L.	STANLEY	3UE19
Brass Plated, 8 oz.	Johnson	6C235
Brass Plated, 16 oz.	Johnson	5LC21
Nickel Plated, 5 oz.	Johnson	6ZTP0
Nickel Plated, 8 oz.	Johnson	6ZTP1
Nickel Plated, 12 oz.	Johnson	6ZTP2

Description	Brand	Item No.
Stake Flags (100/Pkg.)		
Glo-Orange	GA	5MD29
Glo-Pink	GA	5MD30
Glo-Lime	GA	5MD31
Miter Protractors		
7"L, Dual Scale 0 to 360°	Starrett	5UAT6
7"L, 0° to 360°, 90 x 4	Starrett	2ZUY6
12"L, 0° to 360°, 90 x 4	Starrett	2ZUY7
Combination Squares		
6", w/Zinc Head, Black in./mm Graduations	Johnson	5LC23
6", w/Zinc Head, Etched in./mm Graduations	Johnson	21XK20
6", w/Zinc Head	Westward	4MRX3
12", w/Zinc Head, in. Graduations	Johnson	6X996
12", Stainless Steel w/Zinc Head, in. & mm Graduations	Johnson	21XK22
16", w/Zinc Head, in./mm Graduations, Steel Blade	Johnson	2H392
16", w/Zinc Head, in./mm Graduations, Stainless Steel Blade	Johnson	21XK21
12", w/Die-Cast Handle, Chrome-Plated Blade w/Vial, English	STANLEY	6R185
12" w/Aluminum Head	Westward	4MRY1
Carpenter/Rafter/Framing Squares		
8 x 12" Steel Carpenter Square, EZ Read™ Thermal Bonded Markings	Johnson	21XK18
8 x 12" Steel Carpenter's Square, Perment Stamped Markings	Johnson	1TDY9
8 x 12" Steel Carpenter's Square	Westward	4MRX7
16 x 24" Black Aluminum Rafter Square	STANLEY	6R150
16 x 24" Black Aluminum Framing Square	Johnson	6C227
16 x 24" Steel Framing Square	Johnson	21XK17
16 x 24" Black Aluminum Framing Square	Westward	4MRX6
16 x 24" Aluminum Framing Square	Johnson	5W189
7" Aluminum Milled Rafter Angle Square	Johnson	6A513
7" Aluminum Rafter Angle Square	Westward	4MRX4
7" Aluminum Rafter Square	Johnson	21XK19
7" Quick Square, Buffed	STANLEY	38WF34
12" Milled Aluminum Rafter Angle Square	Johnson	6C228
Pivot Square® Precision Aluminum Layout Square, Pivots to Lock in Angle	C.H. Hanson	2GYA2
Brass Stair Gauge Set	Johnson	2H390
Drywall Squares		
54" Heavy-Duty Aluminum Square	Johnson	5LC30
48" Adjust-A-Square® Aluminum T-Square	Johnson	6C232
48" Fixed Head Aluminum T-Square	Johnson	6A514
47 7⁄8" Aluminum T-Square	Westward	4MRX5
24" Rock Ripper® Scoring Square	Johnson	5LC32
8" Aluminum Try Square	Johnson	21XK15
8" Bamboo Try Square	Johnson	21XK16
Bevels, Rules, & Straight Edges		
10" Bamboo Sliding T-Bevel	Johnson	21XK13
10" Aluminum Sliding T-Bevel	Johnson	21XK14
6" Pocket Clip Rule-Std.	Johnson	2H396
6" Pocket Clip Rule-Metric	Johnson	2H398
12" Architect's Rule, in. Graduations	Johnson	21XK23
12" Aluminum Rule	Johnson	2H404
24" Aluminum Rule	Johnson	2H406
36" Aluminum Yardstick	Johnson	2H408
48" Aluminum Straight Edge	Johnson	6C233
60" Aluminum Straight Edge	Johnson	2H412
72" Aluminum Straight Edge	Johnson	6C234
96" Aluminum Straight Edge	Johnson	2H415
Digital Gauges/Calipers/Protractors/Indicators		
Digital Depth Gauge	Johnson	21XK34
Digital Bore Gauge	Johnson	21XK45
Digital Caliper, 0 to 6" Range, 1 9⁄16"D Jaw	Johnson	21XK35
Digital Protractor, 0 to 360°	Johnson	21XK42
Digital Indicator, 0.001mm/0.0001"	Johnson	21XK44
Digital Indicator, 0.002mm/0.0001"	Johnson	21XK43

ZIRCON SONIN The Measure of Excellence® JOHNSON STANLEY STANLEY FatMax BOSCH

Wall Sensors, Scanners, and Stud Finders

MultiScanner® x85 OneStep®— Detects temp. changes in water-filled hydronic radiant heating. The ultra-bright LCD screen, SpotLite® Pointer, and audio tone indicate target location.

MultiScanner® i520 OneStep®— Locates both the center and edges of wood or metal studs. The ultra-bright LCD screen, SpotLite® Pointing System, and audio tone indicate target location. ACT™ technology directs users back if starting was over a stud.

StudSensor™ Pro LCD—Features SpotLite® Pointing System with LCD indicator and audio signal. Also features TruCal® instant calibration.

StudSensor™ Pro SL—Stud Scan mode locates the edges of wood or metal studs up to ¾" (19mm) deep. DeepScan® mode doubles the scanning depth to 1½" (38mm). SpotLite® Pointing System shines a beam of light on the wall to identify the target.

MetalliScanner® m40—Locate ferrous and nonferrous metal. Use Pinpoint Scan to locate small metal objects. Use Wide Scan to detect metal in walls or concrete.

4-in-1 Multi-Function Detector— Measures moisture levels from 8% to 22%. Detects and locates studs, live AC wires, and metal.

Stud Finder Plus™ Stud Finder— Locates metal studs or nails with indicator magnet. Has built-in level vial.

FATMAX® Stud Sensor 300™—Designed with auto calibration, AC detection for live wires up to 2"D, and marking channel. OnePass™ technology locates stud centers. Deep scan senses metal up to 3" through material

Stud Sensors—No. 24A379 has visual indicators and indicates edges of stud. Nos. 31CN13, 24A377, and 24A378 feature AC detection, for live wires up to 2"D. Nos. 31CN13 and 24A377 are designed with sequential LEDs and audible beeps, indicating edges of stud. No. 24A378 features OnePass™ technology locating studs, and a marking channel.

GMS 120 Multi-Scanner—Finds magnetic and nonmagnetic metals, power cables, wood, and plastic pipes. Includes 9V battery and hand strap.

D-Tech 150 Wall Floor—Has wide band range, detecting ferrous and non-ferrous materials up to 6" D. Displays exact location of object and provides 7 detection modes. Includes (4) AA 1.5V batteries and case.



No. 1TJT4



No. 5LC22

Description	Scans	Scan Depth	Brand	Mfr. Model	Item No.
MultiScanner® x85 OneStep®	Wood/Metal Studs, Water-Filled Heated PEX Pipes, Live AC	2"	Zircon	65244	**30HK82**
MultiScanner® i520 OneStep®	Stud Center, Metal, and Hot Unshielded AC Wiring	Stud 1½, Voltage 2, Metal 3"	Zircon	61910	**1TJT4**
MultiScanner® i520 OneStep®	Wood, Metal, Studs	Stud 1½", Voltage 2", Metal 3"	Zircon	66253	**19LZ17**
StudSensor™ Pro LCD	Stud Edges and Hot Unshielded AC Wiring	Stud 1½", Voltage 2"	Zircon	61981	**1TJT6**
StudSensor™ Pro SL	Stud Edges	Stud 1½"	Zircon	61899	**4GU28**
MetalliScanner® m40	Wood, Drywall, Paneling, Tile, Stucco, Plaster, Concrete, and Other Non-Metallic Surfaces	Ferrous Up to 4", Non-Ferrous Up to 2"	Zircon	64068	**6ZEU0**
4-in-1 Multi-Function Detector	Drywall, Wood, Paneling, Carpet, and More	Stud ¾", Voltage 2", Metal 2"	Sonin	50215	**1EFW4**
Stud Finder Plus™ Stud Finder	—	—	Johnson	160	**5LC22**
FATMAX® Stud Sensor 300™	Drywall, Wood, Paneling, and Other Wall Materials	1½"	STANLEY	FMHT77407	**31CN14**
Stud Sensor 50™		¾"	STANLEY	77-050	**24A379**
Stud Sensor 100™	Drywall, Wood, Paneling	¾"	STANLEY	STHT77403	**31CN13**
Stud Sensor 150™	Drywall, Wood, Paneling, and Other Wall Materials	½, 1, 1½"	STANLEY	STHT77404	**24A377**
Stud Sensor 200™		¾"	STANLEY	STHT77406	**24A378**
GMS 120 Multi-Scanner	Metal, Copper, Live Wires, Wood	4¾"	Bosch	GMS 120	**30D487**
D-Tech 150 Wall Floor	Metal, Copper, Live Wires, Wood, Water-Filled Plastic Pipes	6"	Bosch	D-Tect 150	**30D488**

Construction Calculators

All calculators come with batteries, slide covers or doors, paperless tape, auto shutoff, and user's guides.

MATERIAL ESTIMATORS

All calculators work in feet-inch-fractions, decimals, metric, linear, area, volume, and right angle solutions.

Advanced, Desktop, and Contractors Calculator with Trig—Provides circle, arc, dms, blocks, panels, and footings.

Material Estimating Calculator— No. 2WJE6 estimates materials and costs for concrete, fences, decks, bricks, tile, flooring, gravel painting, drywall, and paneling. No. 9XG03 designed for metric measurements. Stores user-defined materials and sizes in the memory. Provides instant calculation also for bulk bags, BTUs, flooring, and tile.

DIGITAL PLAN MEASURES

Basic Handheld Plan Measure— Calculates linear, area, and volume in imperial and metric scales.

Advanced Handheld Plan Measure— Features expanded custom scales with optional PC interface.

ELECTRICIANS AND PIPE TRADES CALCULATORS

Come with protective case with cover.

Electricians Calculator—Provides wire and conduit sizes, voltage drops, and is updatable for code changes.

Pipe Trades Math Calculator— No. 4MHJ3 calculates right angles, offsets, complex rolling offsets, fitting angles, bends, slopes percent grades, drops, parallel pipe cutbacks, feet-inch fractions, trigonometry, weight/volume conversions, flow rates, and pressures. No. 22UN69 calculates dimensional math, fractions (ruler, proper, improper, and mixed), unit conversions, ratios and proportions, trigonometry/trig and plane geometry (right triangles/angles, circular, and polygonal shapes). Works with exponents, square roots, and reciprocals.

CALCULATED INDUSTRIES

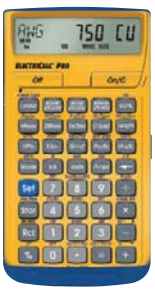
MEASURING AND CONVERSION CALCULATORS

Feet-Inch-Fraction-Metric Dimensional Calculator—Provides calculations and material estimating for linear, area, volume, circles, and arcs.

Unit Conversion Calculator—Features 400 built-in standard to metric unit conversion combinations.



No. 5LN15



No. 34F811

Description	Item No.
Material Estimators	
Basic Contractors Calculator	**4GU25**
Advanced Contractors Calculator	**4GU22**
Desktop Contractors Calculator	**2DDX8**
Contractors Calculator with Trig	**4GU23**

Description	Item No.
Material Estimating Calculator, Easy-To-Use, Memory, Auto Shutoff, Paperless Tape, 2-Digit Internal Accuracy	**2WJE6**
Material Estimating Calculator, mm & Imperial	**9XG03**
Digital Plan Measures	
Basic Handheld Plan Measure	**5LN14**
Advanced Handheld Plan Measure	**5LN15**

Description	Item No.
Electricians and Pipe Trades Calculators	
Electrician's Calculator	**34F811**
Pipe Trades Math Calculator	**4MHJ3**
Portable Tradesman Calculator	**22UN69**
Measuring and Conversion Calculators	
Feet-Inch-Fraction-Metric Dimensional Calculator	**2TJ76**
Unit Conversion Calculator	**1JYX8**


No. 2RXC5


No. 3Q044


No. 4YR51


No. 38EY24

LENOX STANLEY
WESTWARD KLEIN TOOLS DEWALT Milwaukee

Hacksaws and Blades

Use for cutting metal. High-tension saws have adjustable tension to speed cutting and prolong blade life. Low-profile saws are for areas with limited access. Compact and Mini saws are for lightweight cutting in very restricted areas.

Description	Blade Length	Throat Depth	Brand	Item No.
Hacksaws				
Ergonomic, Wood	26"	—	STANLEY	**45JX02**
Ergonomic, Tri-Material	26"	—	STANLEY	**45JX03**
High-Tension, Flush-Cutting, 70,000 psi	12"	4"	LENOX	**2RXC6**
High-Tension, Flush-Cutting, 50,000 psi	12"	4¼"	LENOX	**2RXC5**
High-Tension, T-Frame, Soft Grip, Converts to 90° and 40°	12"	4¾"	Westward	**5WFV9**
High-Tension, Converts to 90° and 40°	12"	4"	Westward	**5WFV7**
High-Tension, Fully Adjustable Tension, 32,000 psi	12"	3⅞"	STANLEY	**3Q044**
High-Tension, FATMAX®	12"	4¾"	STANLEY	**4FE36**
Adjustable Position, Low-Profile	12"	4"	Westward	**21HT83**
90° & 180° Adjustable Blade, Rubber Grip	12"	4⅜"	STANLEY	**48A535**
Ergonomic, Aluminum	12"	4"	STANLEY	**45JX01**
Cushion Grip	12"	4¼"	Westward	**46A921**
Mini Hacksaw, Polypropylene, TPR Handle	12"	—	Westward	**46A922**
Mini Hacksaw, Aluminum Alloy, TPR Handle	12"	—	Westward	**46A923**
Dual Purpose, Converts to 90° to 45°	12"	—	Klein Tools	**2DGD2**
Front Handle Becomes a Pistol Grip Jab Saw	12"	4¾"	DeWalt	**45JW95**
Ergonomic, Adjustable	10 or 12"	3½"	LENOX	**24C976**
2-Pc. Handsaw Kit	10 and 12"	—	Westward	**4YR51**
Adjustable Length	10"	4"	Westward	**38EY24**
Compact	10"	3"	LENOX	**4RA69**
Compact	10"	3"	Milwaukee	**6PFF9**
Mini Hack™	10"	—	STANLEY	**6XV45**
Junior Hacksaw	6"	2"	Westward	**5WFW6**
Junior Hacksaw	6"	2⅛"	Westward	**5WFW7**
Junior Universal Saw	6"	1⅜"	Westward	**5WFW5**

L (in.)	Teeth per Inch	Brand	Item No.	Pkg. Qty.
Hacksaw Blades				
12	18	LENOX	**4RA71**	10
12	18	LENOX	**4RA74**	100
12	18	STANLEY	**5R858**	1
12	18	Westward	**38EY26**	1
12	24	LENOX	**4RA72**	10
12	24	LENOX	**4RA75**	100
12	24	STANLEY	**5R856**	1
12	24	Westward	**38EY27**	1
12	32	LENOX	**4RA73**	10
12	32	LENOX	**4RA76**	100
12	32	STANLEY	**5R854**	1
12	32	Westward	**38EY28**	1
10	24	LENOX	**4RA70**	10
6	32	Westward	**5WFW8**	10


No. 2VU79


No. 3FRA2


No. 6XV43


No. 5MZ17


No. 6XV44

STANLEY IRWIN WESTWARD
Milwaukee LENOX

Hand Saws and Blades

Description	Blade Length	Teeth per Inch	Brand	Item No.
General Purpose Wood-Cutting Saws				
Carpenter Saw, SharpTooth™	20"	8	STANLEY	**1HH22**
Carpenter Saw, SharpTooth™	20"	11	STANLEY	**1UK48**
Carpenter Saw, Pro Touch, Cushion Handle	20"	9	IRWIN	**2VU79**
Carpenter Saw, Easy Start, Coarse	15"	9	IRWIN	**2VU78**
Carpenter Saw, Pro Touch Easy Start, Coarse	15"	9	IRWIN	**2VU77**
FATMAX® Hand Saw, Tri-material	15"	8	STANLEY	**3FRA4**
FATMAX® Short Cut Tool Box Saw, SharpTooth™	15"	8	STANLEY	**6XV43**
Crosscut Tool Box Saw, SharpTooth™	15"	8	STANLEY	**5C920**
Crosscut Saw	15"	9	Westward	**5WFW2**
Dovetail/Jamb Saw, Pro Touch, Reversible	10"	14	IRWIN	**2VU74**
Pull Saw, Double Edge, FATMAX®	9½"	7, 14	STANLEY	**3FRA2**
Coping Saw, Pro Touch	6½"	17	IRWIN	**2VU71**
Coping Saw, FATMAX®	6⅜"	15	STANLEY	**5R770**
Large Hand Opening	20"	9	Westward	**46A924**
Large Hand Opening	15"	9	Westward	**46A926**
Ergonomic	20"	11	Westward	**46A925**
Drywall/Wallboard Saws				
Compass Saw, FATMAX®	12"	11	STANLEY	**2GXF8**
Wallboard Saw	6"	8	Westward	**5MZ17**
Wallboard Saw, Cushion Grip	6"	8	STANLEY	**1C073**
Wallboard Saw, Wood Handle	6"	6	STANLEY	**5R801**
Jab Saw, FATMAX®	6"	8	STANLEY	**6XV44**
Folding Jab Saw, Folding, Rubber Over Mold, Ergonomic	6"	18	Milwaukee	**6PFF6**
Jab Saw, Cushion Grip	6"	8	Westward	**46A928**
PVC Saws				
PVC Saw, FATMAX®	12"	13	STANLEY	**2GXF9**
PVC Saw, Cushion Grip	12"	10	Westward	**46A927**
Utility Saws				
Utility Saw for Wood, Plastic, PVC and ABS Piping	15"	7	Westward	**21HT84**
Folding Jab Saw for Metal, Wood, Plastic, Drywall and Plaster	6"	6, 10, 14	LENOX	**3GPC4**

L (in.)	Teeth per Inch	Brand	Item No.	Pkg. Qty.
Coping Saw Blades				
6½	15	STANLEY	**5R775**	4
6½	17	IRWIN	**2VU72**	3
6½	21	IRWIN	**2VU73**	3
PVC Saw Blades				
12	10	LENOX	**4RA79**	1
18	10	LENOX	**4RA80**	1


No. 3FRA9


No. 6Z842

STANLEY FatMax STANLEY BLACK&DECKER PROTOCOL GA GRAINGER APPROVED

Workstations

FATMAX® Mobile Workstation—4-in-1 unit includes toolbox, part bins, portable tray, and large lower bin. Structural foam construction with front locking latch.

Workmate® Project Centers—Can be used as a work-bench, tool stand, sawhorse, and working vise. Steel frame with adjustable jaws for clamping.

Sawhorse Legs—Legs on Nos. 8UYY8 and 8PXG9 are welded steel and attach to a 2 x 4 to make any length sawhorse needed. They have gripping teeth and set-up requires no screws or nails. Nos. 23TL83 and 23TL81 were designed for maintenance workers and contractor tradesman. They include a fast and easy width adjustment feature.

Hold Cap. (lb.)	L (in.)	W (in.)	Max. Height (in.)	Brand	Item No.
FATMAX® Mobile Workstation					
88	22	14	29	STANLEY	**3FRA9**
Workmate® Project Centers					
450	29	26	39⅞	Black & Decker	**6W372**
550	28¾	30½	30½	Black & Decker	**6Z842**
Sawhorses					
800	40		30	STANLEY	**23TL82**
1100	47	22¼	30	Protocol	**45ND39**
1300	42⅝₄	18½	32	Protocol	**45ND40**
Sawhorse Legs					
1000	—	6	27	GA	**8UYY8**
1000	—	6	35	GA	**8PXG9**
1000	27½	14 15/16	31½	STANLEY	**45JX49**
1000	28⅛	2⅞	31⅛	STANLEY	**23TL83**
2500	27 9/16	2⅛	39	STANLEY	**23TL81**

Putty Knives and Painters Tools

Stainless steel blades are corrosion-resistant. Carbon steel blades are hardened, tempered, and polished. Brass blades are nonsparking. Polypropylene tools are lightweight.


No. 1UKE8


No. 4YP28


No. 5LL90


No. 13A670


No. 13A690


No. 4YP31


No. 1UKF2

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Flexible							
Double Hollow Ground							
1½"	Stainless Steel	Plastic	3 7/16"	4¼"	Black	Hyde	**16W160**
2"	Stainless Steel	Plastic	3 7/16"	4¼"	Black/Cream	Hyde	**16W162**
Full Tang							
1¼"	Carbon Steel	Hardwood	3¾"	4"	Natural	Hyde	**5LM15**
1¼"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL89**
1¼"	Carbon Steel	Plastic/Rubber/Steel	4"	5"	Black/Blue	Westward	**4YP32**
1¼"	Carbon Steel	Polypropylene	3¾"	3½"	Black	Westward	**13A662**
1¼"	Carbon Steel	Wood	3¾"	3½"	Natural	Westward	**13A669**
1½"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL92**
1½"	Carbon Steel	Polypropylene	3¾"	4"	Black	Westward	**13A674**
1½"	Carbon Steel	Polypropylene/TPR	4"	3½"	Black/Red	Westward	**13A677**
1½"	Stainless Steel	Nylon	3½"	3½"	Black/Silver	Hyde	**9PY10**
1½, 3"	Stainless Steel	Polypropylene/ TPR/Steel	4, 4¼"	5"	Black/Blue	Westward	**46A915**
1½"	Stainless Steel	Polypropylene/ TPR/Steel	4"	5"	Black/Blue	Westward	**46A917**
2"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL94**
2"	Carbon Steel	Nylon	3¾"	4"	Blue	Westward	**1UKF5**
2"	Carbon Steel	Plastic/Rubber/Steel	3½"	4"	Black/Blue	Westward	**4YP33**
2"	Carbon Steel	Polypropylene	3¾"	3½"	Black	Westward	**13A666**
2"	Stainless Steel	Nylon	3½"	3½"	Black/Silver	Hyde	**9MN10**
2"	Stainless Steel	Polypropylene	3¾"	4"	Black	Westward	**46A914**
3"	Carbon Steel	Plastic/Rubber/Steel	4¼"	4"	Black/Blue	Westward	**4YP34**
3"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A918**
4"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A907**
Half Tang							
3/8"	Spring Steel	Hardwood	3"	3½"	Natural	Hyde	**39CF51**
5/8"	Spring Steel	Hardwood	4"	4"	Natural	Hyde	**39CF50**
15/16"	Stainless Steel	Hardwood	3 15/16"	4⅞"	Natural	Westward	**40JD56**
1"	Spring Steel	Hardwood	6"	4"	Natural	Hyde	**39CF49**
1 3/16"	Stainless Steel	Hardwood	5 15/16"	4⅞"	Natural	Westward	**40JD58**
1¼"	Stainless Steel	Hardwood	7⅛"	4⅞"	Natural	Westward	**40JD57**
1⅜"	Stainless Steel	Hardwood	7⅞"	4⅞"	Natural	Westward	**40JD55**
1⅝"	Beryllium Copper	Wood	9"	4 23/32"	Natural	Westward	**23X827**
Standard							
1¼"	Beryllium Copper	Wood	3 9/16"	4⅛"	Natural	Westward	**23X825**
1¼"	Carbon Steel	Nylon	3⅝"	4"	Blue	Westward	**1UKF1**
1½"	Carbon Steel	Nylon	3⅝"	4"	Blue	Westward	**1UKF3**
1½"	Carbon Steel	Plastic	4"	5"	Black/Blue	Westward	**1UKE8**
1½"	Carbon Steel	Polypropylene/TPE	3½"	4½"	Black/Cream	Hyde	**24Z412**
1½"	Polypropylene	Polypropylene	3½"	3½"	White	Westward	**13A685**
1½, 3, 6"	Polypropylene	Polypropylene	—	—	—	Westward	**13A716**
1½"	Polypropylene	Polypropylene	3¾"	3½"	Black	Hyde	**1DBA2**
1½, 3"	Stainless Steel	Plastic Overmold/ Steel	—	—	Grey	Hyde	**16W171**
2"	Carbon Steel	Polypropylene/TPE	3½"	4½"	Black/Cream	Hyde	**24Z414**
2"	Carbon Steel	Polypropylene/TPR	3¼"	5"	Black/Blue	Westward	**46A902**
2"	Polypropylene	Polypropylene	3¾"	3½"	Black	Hyde	**1DBA1**
2"	Polypropylene	Polypropylene	3½"	3½"	White	Westward	**13A684**
3"	Polypropylene	Polypropylene	3½"	4½"	White	Westward	**13A714**
4"	Carbon Steel	Polypropylene/ TPR/Steel	3⅞"	4¾"	Black/Blue	Westward	**46A903**
4"	Polypropylene	Polypropylene	3½"	4½"	White	Westward	**13A713**
6"	Polypropylene	Polypropylene	3½"	4½"	Green	Westward	**13A706**
8"	Polypropylene	Polypropylene	3½"	4½"	Green	Westward	**13A705**

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Stiff							
11-in-1, Full Tang							
3¼"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A911**
5-in-1							
2½"	Brass	Polypropylene/TPR	3½"	4"	Black/Blue	Westward	**13A707**
3"	Carbon Steel	Polypropylene/TPR	4⅛"	4"	Black/Blue	Westward	**13A708**
6-in-1							
2½"	Carbon Steel	Polypropylene/TPE	3¼"	4½"	Black/Cream	Hyde	**24Z419**
2½"	Stainless Steel	Plastic	3⅛"	4¼"	Gray	Hyde	**16W169**
3"	Carbon Steel	Plastic/Rubber/Steel	4¼"	4"	Black/Blue	Westward	**4YP28**
6-in-1, Full Tang							
3"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A910**
8-in-1							
3"	Stainless Steel	Plastic	3⅜"	4¼"	Gray	Hyde	**16W170**
Chisel							
3"	Carbon Steel	Polypropylene	4¾"	6"	Red	Hyde	**24Z453**
Double Hollow Ground							
1¼"	Stainless Steel	Plastic	3 7/16"	4¼"	Gray	Hyde	**16W159**
1½"	Stainless Steel	Plastic	3 7/16"	4¼"	Gray	Hyde	**16W161**
2"	Stainless Steel	Plastic	3 7/16"	4¼"	Black/Cream	Hyde	**16W163**
Full Tang							
1¼"	Brass	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL91**
1¼"	Brass	Polypropylene	3¾"	3½"	Black	Westward	**13A664**
1¼"	Brass	Polypropylene	3-1/2"	4"	Black/Blue	Westward	**13A683**
1¼"	Carbon Steel	Hardwood	3¾"	4"	Natural	Hyde	**5LM16**
1¼"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL90**
1¼"	Carbon Steel	Nylon	3¾"	3½"	Black	STANLEY	**1ARX3**
1¼"	Carbon Steel	Plastic/Rubber/Steel	3½"	4"	Black/Blue	Westward	**4YP29**
1¼"	Carbon Steel	Polypropylene	3¾"	3½"	Black	Westward	**13A663**
1¼"	Carbon Steel	Polypropylene/TPR	3¼"	3½"	Black/Red	Westward	**13A680**
1¼"	Carbon Steel	Wood	3¾"	3½"	Natural	Westward	**13A670**
1 5/16"	Carbon Steel	Nylon	3⅞"	3¾"	Black/Silver	Hyde	**53CM11**
1½"	Carbon Steel	Nylon	3⅝"	4"	Blue	Westward	**1UKF4**
1½"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL93**
1½"	Carbon Steel	Polypropylene	3¾"	3½"	Black	Westward	**13A665**
1½"	Carbon Steel	Polypropylene/TPR	3¼"	3½"	Black/Red	Westward	**13A678**
1½"	Stainless Steel	Nylon	3½"	3½"	Black/Silver	Hyde	**8NKG8**
1½"	Stainless Steel	Polypropylene	3⅜"	4"	Black	Westward	**46A912**
1½, 3"	Stainless Steel	Polypropylene/ TPR/Steel	4, 4¼"	5"	Black/Blue	Westward	**46A916**
1½"	Stainless Steel	Polypropylene/ TPR/Steel	4"	5"	Black/Blue	Westward	**46A919**
2"	Brass	Polypropylene	3¾"	4"	Black	Westward	**13A688**
2"	Brass	Polypropylene	3¾"	3½"	Black	Westward	**13A668**
2"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL95**
2"	Carbon Steel	Nylon	3¾"	4"	Blue	Westward	**1UKF6**
2"	Carbon Steel	Plastic/Rubber/Steel	4"	4"	Black/Blue	Westward	**4YP30**
2"	Carbon Steel	Polypropylene	3¾"	3½"	Black	Westward	**13A667**
3"	Brass	Polypropylene	3½"	4"	Black	Westward	**13A689**
3"	Brass	Polypropylene/TPR	3½"	4"	Black/Blue	Westward	**13A690**
3"	Carbon Steel	Plastic/Rubber/Steel	3½"	4¼"	Black/Blue	Westward	**4YP31**
3"	Stainless Steel	Polypropylene	4"	4"	Black	Westward	**46A913**
3"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A920**
Standard							
1¼"	Carbon Steel	Nylon	3⅝"	4"	Blue	Westward	**1UKF2**
1½"	Carbon Steel	Plastic	4"	5"	Black/Blue	Westward	**1UKE9**
1½"	Carbon Steel	Polypropylene/TPE	3½"	4½"	Black/Cream	Hyde	**24Z411**
1½, 3"	Stainless Steel	Plastic Overmold/ Steel	—	—	Grey	Hyde	**16W172**

Flexible Blade Joint and Taping Knives

Joint Knife
No. 1UKF8



Taping Knife
No. 24Z424



Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Joint Knives							
Double Hollow Ground							
4"	Stainless Steel	Plastic	4"	4¼"	Black	Hyde	**16W166**
5"	Stainless Steel	Plastic	4⅛"	4¼"	Black	Hyde	**16W167**
6"	Stainless Steel	Plastic	4 3/16"	4¼"	Black	Hyde	**16W168**
Full Tang							
5"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A908**
6"	Carbon Steel	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL99**
6"	Carbon Steel	Polypropylene	3½"	4½"	Black	Westward	**13A701**
6"	Carbon Steel	Polypropylene/TPR	3½"	4"	Black/Blue	Westward	**13A702**
6"	Carbon Steel	Wood	3¾"	3½"	Natural	Westward	**13A704**
6"	Stainless Steel	Polypropylene/ TPR/Steel	4¼"	5"	Black/Blue	Westward	**46A909**
Standard							
4"	Carbon Steel	Nylon	4¼"	3¾"	Black	Hyde	**16W174**
5"	Carbon Steel	Polypropylene/TPE	4"	4½"	Black/Cream	Hyde	**24Z417**
5"	Carbon Steel	Polypropylene/ TPR/Steel	3⅞"	4¾"	Black/Blue	Westward	**46A904**
6"	Carbon Steel	Nylon	4¼"	4"	Blue	Westward	**1UKF8**
6"	Carbon Steel	Polypropylene/TPE	4"	4½"	Black/Cream	Hyde	**24Z418**

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
6"	Carbon Steel	Polypropylene/ TPR/Steel	3⅞"	4¾"	Black/Blue	Westward	**46A905**
6"	Polypropylene	Polypropylene	3¾"	3½"	Black	Hyde	**1DAZ7**
8"	Polypropylene	Polypropylene	4⅛"	3½"	Black	Hyde	**1DAZ6**
Taping Knives							
Tapered							
6"	Blue Steel	Polypropylene	3"	6⅛"	Neon Yellow	Westward	**13A724**
8"	Blue Steel	Polypropylene	3"	6⅛"	Blue	Westward	**13A728**
8"	Stainless Steel	Polypropylene/TPR	3"	5⅝"	Black/Red	Westward	**13A721**
10"	Blue Steel	Polypropylene	3"	6⅛"	Blue	Westward	**13A725**
10"	Stainless Steel	Polypropylene/TPR	3"	5⅝"	Black/Blue	Westward	**13A722**
12"	Blue Steel	Polypropylene	3"	6⅛"	Neon Yellow	Westward	**13A726**
12"	Stainless Steel	Polypropylene/TPR	3"	5⅝"	Black/Red	Westward	**13A723**
Tapered, Extruded Backing							
8"	Blue Steel	Hardwood	3"	6"	Black/Red	Hyde	**24Z438**
8"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z422**
10"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z423**
12"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z424**
Tapered, Folded Backing							
8"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z444**
10"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z445**
12"	Stainless Steel	Plastic	3½"	6"	Black/Cream	Hyde	**24Z446**



4-Pc. Set, Gasket Scrapers
No. 24Z409



Glass Scraper
No. 13A711



2-Edge Scraper
No. 13A696



2-Pc. Prep Kit
No. 13A687



Wall Scraper
No. 13A703

Prep Kits and Scrapers

Stainless steel blades are corrosion-resistant. Carbon steel blades are hardened, tempered, and polished. Brass blades are nonsparking. Polypropylene tools are lightweight.

Blade Width	Blade Material	Blade Type	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Bent Pole Scrapers								
Stiff								
3"	Carbon Steel	Bent	Hardwood	4½"	4¾"	Natural	Hyde	**24Z450**
3"	Carbon Steel	Bent	Polypropylene	3½"	4½"	Black	Westward	**13A691**
Chisel Scrapers								
Flexible								
3"	Stainless Steel	Double Hollow Ground	Plastic	3⅞"	4¼"	Black	Hyde	**16W164**
Stiff								
1¼"	Stainless Steel	Chisel, Full Tang	Polypropylene/ TPR/Steel	4"	5"	Black/Blue	Westward	**46A906**
1⁵⁄₁₆"	Brass	Chisel	Polypropylene	3½"	8"	Black	Hyde	**24Z451**
2"	Brass	Chisel, Full Tang	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL96**
3"	Brass	Chisel	Polypropylene	3¼"	8"	Black	Hyde	**8CU48**
3"	Brass	Chisel, Full Tang	Nylon	3¾"	4"	Brass	Hyde	**5LL98**
3"	Carbon Steel	Bent, Chisel	Polypropylene	3½"	4½"	Black	Hyde	**5LM19**
3"	Carbon Steel	Chisel, Full Tang	Nylon	3¾"	4"	Black/Silver	Hyde	**5LL97**
3"	Carbon Steel	Chisel, Full Tang	Hardwood	3¾"	4"	Natural	Hyde	**5LM18**
3"	Stainless Steel	Double Hollow Ground	Plastic	3⅞"	4¼"	Gray	Hyde	**16W165**
Gasket Scrapers								
Stiff								
½, ¾, 1, 1½"	Cold Drummed Carbon Steel	Beveled	Polypropylene/ TPE/Steel	5"	5"	Black/Gray	Hyde	**24Z409**
1"	Chrome Vanadium Steel	Beveled	Acetate	7"	4⁷⁄₁₆"	Red	Hyde	**24Z410**
1½"	Carbon Steel	Beveled	Polypropylene	1½"	8"	Black	Westward	**13A698**
1½"	Carbon Steel	Beveled	Plastic	7½"	4½"	Black	Westward	**1UKF9**
1½"	Chrome Vanadium Steel	Beveled	Acetate	7"	4⁷⁄₁₆"	Red	Hyde	**24Z421**
Glass Scrapers								
Flexible								
1½"	Carbon Steel	Single Edge Razor	Polypropylene	1½"	1"	Black	Hyde	**24Z407**
1½"	Carbon Steel	Single Edge Razor	Polypropylene	½"	4"	Black/Cream	Hyde	**16W178**
1½"	Carbon Steel	Single Edge Razor	Steel	½"	4"	Silver	Hyde	**5LM21**
1½"	Carbon Steel	Single Edge Razor	Plastic	1"	2"	Tan	Hyde	**16W177**
Stiff								
⁴⁵⁄₆₄"	Stainless Steel	Single Edge Razor, Utility	Plastic	4²³⁄₃₂"	3⁹⁄₁₆"	Black/Yellow	Olfa	**53UE14**
1½"	Carbon Steel	Single Edge Razor	Steel	½"	4"	Silver	Westward	**13A710**
1½"	Carbon Steel	Single Edge Razor	Rubber	½"	4"	Silver/Black	Westward	**13A711**
3-15-16"	Carbon Steel	Single Edge Razor, Utility	Steel, Vinyl	3¹⁵⁄₁₆"	20⁵⁄₁₆"	Black/Yellow	Olfa	**53UE16**
Paint Scrapers								
Stiff								
2½"	Carbon Steel	Adjustable	Polypropylene/TPR	1¼"	5"	Black/Blue	Westward	**13A696**
2½"	Carbon Steel	Adjustable	Polypropylene/TPE	2½"	8½"	Black	Hyde	**24Z420**
2½"	Tungsten Carbide	Adjustable	Polypropylene/TPR	1¼"	5"	Black/Red	Westward	**13A697**
2½"	Tungsten Carbide	Adjustable	Nylon	2½"	4"	Black/Cream	Hyde	**3PB46**
3"	Carbon Steel	Bent, Chisel	Polypropylene	4¾"	6"	Red	Hyde	**24Z452**
Putty Knife Set								
Flexible								
1½, 3, 4, 5"	Carbon Steel	(4) Standard, (1) 6-in-1	Plastic/Rubber	—	—	—	Westward	**31MJ75**
Scraper Multi-Tools								
Stiff								
2½"	Carbon Steel	10-in-1	Polypropylene	3¼"	5"	Tan	Hyde	**16W175**
3"	Carbon Steel	6-in-1, Full Tang	Nylon	4½"	4"	Black	Hyde	**24Z427**
Scrapers								
Flexible								
3"	Carbon Steel	Standard	Polypropylene/TPE	4"	4½"	Black/Cream	Hyde	**24Z415**
3"	Polypropylene	Standard	Polypropylene	3¾"	3½"	Black	Hyde	**1DAZ9**
4"	Carbon Steel	Standard	Polypropylene/TPE	4"	4½"	Black/Cream	Hyde	**24Z416**
4"	Polypropylene	Standard	Polypropylene	3¾"	3½"	Black	Hyde	**1DAZ8**
Stiff								
1½"	Carbon Steel	Single Edge Razor	Steel	8⅞"	5⅛"	Metallic	Pacific Handy Cutter, Inc	**4MUW8**
3"	Carbon Steel	Chisel	Polypropylene/TPE	3¾"	4½"	Black/Cream	Hyde	**24Z428**
3"	Carbon Steel	Chisel	Polypropylene	4½"	8"	Black	Hyde	**38HT03**
3"	Carbon Steel	Full Tang	Polypropylene/TPR	4"	3½"	Black/Blue	Westward	**13A692**
3"	Stainless Steel	Angled, Chisel, Full Tang	Nylon	3½"	3½"	Black/Silver	Hyde	**9AND8**
Surface Preparation Kits								
(1) Flexible, (2) Stiff								
1¼", 3", 3"	Carbon Steel	(2) Standard, (1) 5-in-1	(2) Polypropylene, (1) Polypropylene/ TPR/Steel	—	—	—	Westward	**13A715**
1¼, 3, 3"	Stainless Steel, Carbon Steel	(2) Standard, (1) 8-in-1	(2) Nylon, (1) Plastic Overmold/Steel	Multiple	—	Grey/Black	Hyde	**16W173**
Flexible								
1½, 3"	Carbon Steel	Standard	Polypropylene/TPR	—	—	—	Westward	**13A686**
1½, 3, 6"	Polypropylene	Beveled	Polypropylene	3¾"	3½"	—	Hyde	**1DAZ5**
Stiff								
1½, 3"	Carbon Steel	Standard	Polypropylene/TPR	—	—	—	Westward	**13A687**
Wall Scrapers								
Flexible								
3"	Carbon Steel	Full Tang	Polypropylene/TPR	4"	3½"	Black/Blue	Westward	**13A694**
3"	Carbon Steel	Full Tang	Hardwood	3¾"	4"	Natural	Hyde	**5LM17**
3"	Carbon Steel	Full Tang	Wood	3½"	3½"	Natural	Westward	**13A712**
4"	Carbon Steel	Full Tang	Polypropylene	3½"	4"	Black	Westward	**13A703**
Stiff								
3"	Carbon Steel	Full Tang	Wood	3¾"	3½"	Natural	Westward	**13A695**
3"	Carbon Steel	Full Tang	Polypropylene	3½"	4"	Black	Westward	**13A693**
3"	Carbon Steel	Standard	Nylon	3⅞"	4"	Blue	Westward	**1UKF7**
Window Scrapers								
Flexible								
1½"	Carbon Steel	Single Edge Razor	Polypropylene	1½"	5½"	Black	Hyde	**24Z454**
Stiff								
2⅜"	Carbon Steel	Utility	Polypropylene	1"	5"	Black	Westward	**13A720**
4"	Carbon Steel	Standard	Plastic/Rubber	4"	5"	Black/Cream	Hyde	**24Z408**



Drywall Apprentice Kit
No. 13A767



Spiral Mixer
No. 13A635



Inside Corner Trowel
No. 3AJ91



Jab Saw
No. 13P495



Drywall T-Square
No. 13P537



Texture Sprayer
No. 3DRF1

Drywall Tools

Description	Brand	Item No.
Drywall Apprentice Kit		
13" Stainless Mud Pan, 9" Sander, 10" Taping Knife, 12" Taping Knife, 12 oz. Drywall Hammer, 6" Putty Knife, 2" Drywall Patch	Westward	**13A767**
Mud Pans and Mixers		
Spiral Paint Mixer, 16"L x 2½"W	Westward	**13A593**
Spiral Paint Mixer, 16"L x 3¼"W	Westward	**13A594**
Spiral Paint Mixer, 24 9/16"L x 4"W	Westward	**13P529**
Spiral Paint Mixer, 30"L x 4¾"W	Westward	**13A635**
Mud Mixer, 8½ x 30 x ½"	Westward	**13P530**
Drywall Mud Masher, 24½"	Marshalltown	**18E852**
Drywall Mud Pan, 12" SS	Marshalltown	**18E856**
Aluminum Hawks		
ErgoSoft Handle, 10"	Westward	**13A762**
ErgoSoft Handle, 13"	Westward	**13A763**
Corner Tools		
Inside Corner Tool, 11"L x 6 3/8"W, w/Cushion Grip Handle	Westward	**13P539**
Inside Corner Tool, 10½"L x 4"W, w/ Curved Soft Grip Handle	Westward	**13A573**
Inside Corner Trowel, 4"L x 5"W, Straight With Integral Finger Guard Handle	Marshalltown	**3AJ91**
Outside Corner Tool, 11"L x 3½"W, w/ Cushion Grip Handle	Westward	**13P540**
Outside Corner Trowel, 5"L x 3"W, Straight With Integral Finger Guard Handle	Marshalltown	**3AJ94**
Cornerbead Clincher with Mallet, 13½"L x 3"W	Westward	**13A765**
Saws		
Jab Saw, w/6-1/4" High Carbon Steel Blade	Westward	**13P495**
Coping Saw, w/6" Tungsten Carbide Blade	Westward	**13P497**
Drywall Utility Saw, w/6" Blade	Marshalltown	**18E854**
Strippers		
Drywall Stripper	Westward	**13A764**
Wallpaper Stripper	Westward	**13P501**
Replacement Blade for No. 13A764, Pk. of 6	Westward	**13A759**
Replacement Blade for No. 13P501, Pk. of 5	Westward	**13P532**
Concrete Tools		
Tie Wire Twister, Steel	Westward	**13A617**
Miscellaneous Drywall Tools		
48 x 2" Drywall T-Square	Westward	**13P537**
Squeegee Trowel, 18"L	Marshalltown	**18E850**
Squeegee Trowel, 22"L	Marshalltown	**18E851**

Description	Size	Construction	Brand	Item No.
Texturing Tools				
Texture Sprayer, 2.5 gal.	—	—	Marshalltown	**3DRF1**
Banjo Taper, Aluminum Blade, Curved Soft Grip, 2 qt.	—	—	Hyde	**1DAY5**
Drywall Taper, Steel Blade	—	—	Westward	**13P538**
Texture Brush, Double	14 x 6½"	Hemp Fiber Bristles	Hyde	**1DAY2**
Texture Brush, Double Crowfoot	18⅝ x 13⅞"	Wood/Tampico	Westward	**13P492**
Texture Brush, Single	13 x 9"	Hemp Fiber Bristles	Hyde	**1DAY3**
Texture Brush, Single Crowfoot	13½ x 9⅛"	Wood/Tampico	Westward	**13P493**
Texture Gun, 1½ gal. Cap.	—	Aluminum Gun, Plastic Hopper	Westward	**13P494**

Drywall Sanding and Repair Tools

▪ For wall compounds, see page 1597

Description	Size	Brand	Item No.
½" Drywall Clips, Pkg. of 8	1/2"	Hyde	**1DAZ2**
Hand Sander, Dura Soft Handle	9⅜ x 3¼"	Marshalltown	**18E853**
Vacuum Sander, 6 ft. Hose, Coupler, And Adapter	9¼ x 3¼	Marshalltown	**18E849**
Pole Sander with Wood Pole	9¼"	Westward	**13P490**
Sponge Scrubber	9 x 4½"	Westward	**13A761**
Drywall Circle Cutter	—	Westward	**13A766**
Tape	2" x 500 ft.	Hyde	**1DAZ4**
Tape, Self-Adhesive	2" x 300 ft. (90M)	Westward	**13A758**
Tape, Self-Adhesive	2" x 500 ft. (150M)	Westward	**13A757**
Wall Patch	8 x 8"	Hyde	**1DAZ3**
Wall Patch	6 x 6"	Hyde	**1DAX7**
Wall Patch	4 x 4"	Hyde	**1DAX8**



Circle Cutter
No. 13A766



Mesh Tape
No. 13A757



PORTER-CABLE

Drywall Sander

62"L tool can sand 10-ft. ceilings without a scaffold. Powerful 4.7A motor.

Description	Mfr. Model	Item No.
Drywall Sander, Built-in dust collection connector	7800	**3JF52**



No. 3FRA7


No. 10D659



No. 1FBC5

STANLEY | DEWALT | WESTWARD | BOSTITCH | STANLEY FatMax

Staplers and Tackers

STAPLE GUNS

Attach thin materials to a harder or thicker substrate or framework.

STAPLE AND NAIL GUNS

Use both staples and brad nails.

TACKERS

Outward Clinch Tacker—Turns staple legs outward for pipe wrap, duct board, and corrugated applications.

Hammer Tackers—Use to attach roofing paper, felt, plastic sheeting, and house wrap, or to install flooring.

Description	Staple Type	Crown Width	Leg Length	Brand	Mfr. Model	Item No.
Staple Guns						
Heavy-Duty Staple Gun, Steel Chrome Plated	Heavy Duty Narrow Crown	27/64"	1/4" to 9/16"	STANLEY	TR110	**3FRA6**
Hi-Lo Power Lever, Heavy-Duty	Heavy Duty Narrow Crown	1/4", 5/16", 3/8", 1/2"	1/4" to 9/16"	STANLEY	TR150HL	**3FRA7**
Heavy-Duty Staple Gun, Aircraft Aluminum	Heavy Duty Narrow Crown	27/64"	1/4" to 9/16"	STANLEY	TR150	**1FBC6**
Light-Duty Staple Gun, Chrome Plated	Light Duty	29/64"	1/4" to 3/8"	STANLEY	TR45	**2HYR6**
Cable Staple Gun, Aircraft Aluminum	Round Crown, Flat Narrow Crown	5/16"	3/8" to 9/16"	STANLEY	CT10X	**3FRD2**
Heavy-Duty Narrow Crown Staple Gun, Die-Cast Aluminum	Heavy Duty Narrow Crown	27/64"	1/4" to 1/2"	DeWalt	DWHTTR130LH	**31CN63**
Staple and Nail Guns						
Staple/Nail Gun	Narrow Flat Crown	27/64"	5/16" to 9/16"	Westward	—	**10D659**
Heavy-Duty Stapler/Brad Nailer	Heavy Duty Narrow Crown	27/64"	1/4" to 9/16"	STANLEY	TR250	**1FBC7**
Heavy-Duty Narrow Crown Staple/Nail Gun	Heavy Duty Narrow Crown	27/64"	1/2", 9/16"	DeWalt	DWHTTR350	**24T308**
Tackers						
Heavy-Duty Outward Clinch Tacker	Power Crown	7/16"	1/2", 9/16"	Bostitch	T6-8OC2	**3ULY8**
Heavy-Duty Hammer Tacker	Heavy Duty Narrow Crown	27/64"	1/4" to 3/8"	STANLEY	PHT150C	**1FBC5**
FatMax® Heavy-Duty Hammer Tacker	Heavy Duty Narrow Crown	27/64"	5/16" to 1/2"	STANLEY	PHT250C	**1XHU9**
Heavy-Duty Hammer Tacker	Power Crown	7/16"	1/4", 5/16", 3/8"	Bostitch	PC2K	**1TLK1**


No. 24T345




Power Crown
No. 1TLK6

STANLEY | WESTWARD | BOSTITCH

Staples, Brad Nails, and C Rings

Description	Nail Length (in.)	Brand	Item No.	Pkg. Qty.
Brad Nails				
Brown	1	STANLEY	**1XHU6**	1000
	1/2	STANLEY	**24T338**	1000
	5/8	STANLEY	**4DZZ9**	1000
Natural	3/4	STANLEY	**4DZZ8**	1000
	1 3/16	STANLEY	**24T349**	1000
	1 1/4	STANLEY	**1XHU7**	1000
White	1	STANLEY	**1MTJ2**	1000

Description	Leg Length (in.)	Crown Width (in.)	For Use With	Brand	Item No.	Pkg. Qty.
Cable Staples						
Round Crown, Natural	3/8	5/16	10D655 Staple Gun	Westward	**10D680**	1000
	3/8	5/16	Mfr. No. CT10X, T25	STANLEY	**1XHT1**	1000
	7/16	5/16	Mfr. No. CT10X, T25	STANLEY	**24T345**	1000
	1/2	5/16	Mfr. No. CT10X, T25	STANLEY	**24T339**	1000
	9/16	5/16	10D655 Staple Gun	Westward	**10D681**	1000
	9/16	5/16	Mfr. No. CT10X, T25	STANLEY	**1XHT2**	1000
Heavy-Duty Staples						
Heavy-Duty Flat Narrow Crown, Natural	3/8	5/16	Mfr. Model No. CT10X	STANLEY	**24T347**	1000
	1/2	5/16	Mfr. No. CT10X	STANLEY	**24T346**	1000
Heavy-Duty Narrow Crown	3/8	27/64	PHT150C, TR100, TR200, TRE500, TR100HLPHT150C, TR100, TR200, TRE500, TR100HL, T50, T50PBN, ETF50, T55, HT50	STANLEY	**9JGW6**	1
Heavy-Duty Narrow Crown, Natural	1/4	27/64	Mfr. Nos. TR150, TR250, TRE550, TR110, TR150HL, PHT150C, T50	STANLEY	**1XHT4**	1000
	1/2	27/64	Mfr. Nos. TR150, TR250, TRE550, TR110, TR150HL, PHT250C	STANLEY	**1XHT7**	1000
Heavy-Duty Narrow Crown, Stainless Steel	1/4	27/64	Mfr. No. TR150, TR250, TRE550, TR110, TR150HL, PHT150C, PHT250C	STANLEY	**3KMA6**	1000
	3/8	27/64	Mfr. No. TR150, TR250, TRE550, TR110, TR150HL, PHT150C, PHT250C, T50	STANLEY	**1XHT9**	1000
	1/2	27/64	Mfr. No. TR150, TR250, TRE550, TR110, TR150HL, PHT250C	STANLEY	**1XHU1**	1000
Narrow Crown, Silver	5/16	27/64	Nos. 1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7, Staplers; 1FBC5, 1XHU9, Tackers	STANLEY	**1XHT5**	1000
	3/8	27/64	Nos. 1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7 Staplers; 1FBC5, 1XHU9 Tackers	STANLEY	**1XHT6**	1000
	9/16	27/64	Nos. 1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7 Staplers	STANLEY	**1XHT8**	1000
Light-Duty Staples						
Office	1/4	1/2	Mfr. No. TR65 Stapler	STANLEY	**30PC78**	5000
Wide Crown, Natural	1/4	29/64	Mfr. No. TR45, TR40, TR35	STANLEY	**1XHR8**	1000
	5/16	29/64	Mfr. No. TR45, TR40, TR35	STANLEY	**1XHR9**	1000
	3/8	29/64	Mfr. No. TR45, TR40, TR35	STANLEY	**1XHT3**	1000
Narrow Crown Staple						
Narrow Crown Staple, Steel, Chisel Point	1/4	27/64	Mfr. Model No. TR110, TR150, TR150HL, TRE550, TR250, PHT150C	STANLEY	**24T333**	1500
	3/8	27/64	Mfr. Model No. TR110, TR150, TR150HL, TRE550, TR250, PHT150C, PHT250C	STANLEY	**24T332**	1500
Power Crown Staples						
Heavy-Duty, Natural	1/4	29/64	10D663 Hammer Tacker	Westward	**10D667**	5000
	3/8	29/64	10D663 Hammer Tacker	Westward	**10D669**	5000
Heavy-Duty, Silver	1/4	7/16	Mfr. No. P6C-8 and PC2K	Bostitch	**1TLK6**	6000
	5/16	7/16	Mfr. No. P6C-6	Bostitch	**1TLL3**	5000
	3/8	7/16	Mfr. No. P6C-8 and PC2K	Bostitch	**1TLK8**	5000
	3/8	7/16	Mfr. No. P6C-6	Bostitch	**1TLL4**	5000
	1/2	7/16	Mfr. No. PC4000-OC2	Bostitch	**1TLK9**	4032
	9/16	7/16	Mfr. No. PC4000-OC2	Bostitch	**1TLL1**	4032
Light-Duty, Silver	1/4	7/16	Mfr. No. P6C-6	Bostitch	**1TLL2**	5000

ROBERTS ★ WESTWARD

Carpet Installation Tools

Carpet Installation Kit No. 1TGH6—Metal tool box holds deluxe knee kicker, GT carpet trimmer, cushion-back cutter, carpet seam roller, razor blade knife, utility knife, base molding lifter, ripping hammer, napping shears, stair tool, seam adhesive applicator, chalk reel, white chalk refill, and leather tool pouch.

Description	Brand	Item No.
Carpet Installation Kit	Roberts	1TGH6
Carpet Stretcher Kit	Roberts	43Z124
Power-Lok Stretcher	Roberts	1TGF7
Deluxe Carpet Stretcher	Westward	13A752
Carpet Puller	Westward	13A745
	Roberts	1TGH5
Carpet Knee Kicker	Roberts	5LF54
	Roberts	43Z126
PTFE Carpet Heat Bond Iron	Roberts	5LF49
Loop Pile Cutter	Roberts	5LF43
	Westward	13A746
GT Carpet Trimmer	Roberts	5LF62
Carpet Knife	Roberts	1TGG3
Carpet Shears	Westward	30PA72
Longneck Jamb Saw	Roberts	1TGF8
Jamb Saw Replacement Blade for No. 1TGF8	Roberts	1TGF9
Undercut Jamb Saw	Roberts	5LF52
Carpet Seam Roller, Smooth Wheel	Westward	13A749
Carpet Seam Roller, Star Wheel	Westward	13A748
Adhesive Nozzle	Roberts	1TGG6
Double Sided Carpet Tape, 15 ft x 2½ in	Roberts	12L729
Double-Sided Tape for Carpet Flooring, 1⅞" x 75 ft.	Roberts	5HXE0
Traction Nonslip Rug Strip, 2½" x 25 ft.	Roberts	5HXD9
Premium Heat Bond Seaming Tape, 22 yd.	Roberts	12L727
Carpet Seaming Tape, 15 ft.	Roberts	12L728
Carpet Adhesive, 1 gal.	Roberts	43Z107



Carpet Installation Kit No. 1TGH6

L (in.)	W (in.)	Notch Type	Notch Width (in.)	Notch Depth (in.)	Brand	Item No.
2-Sided Notched Trowels						
6	2	Square	¼	¼	Westward	13A580
11	4½	Square	¼	¼	Westward	13P548
	4½	Square	¼	⅜	QEP	5HXD7
	4½	Square	1/16	1/16	Westward	13A631
2-Sided Margin Trowels						
9¾	2	V	¼	⅛	Westward	13A581

Description	L (in.)	W (in.)	Thickness (in.)	Material	Handle	Brand	Item No.
Tile Floats and Sponges							
Grout Sponge, Pkg. 6	7½	5½	2	Foam	—	QEP	5HXD6
Molded Rubber Float	8	4	⅝	Rubber	Plastic	Westward	13P545
	9	4	⅝	Gum Rubber	Plastic	Westward	13P542
Grout Float	9½	4	—	Gum Rubber, Aluminum Backing Plate	Cushioned Grip	QEP	43Z099
	12	4	¾	Rubber	Wood	QEP	5HXD5

Description	Brand	Item No.
Linoleum and Vinyl Flooring Tools		
Utility Knife	Westward	13A732
Vinyl Tile Cutter, Cuts Up to 12" Tiles Diagonally	Westward	13P502
Vinyl Tile Cutter, Cuts Vinyl Tile up to 12" x 12"	Roberts	5HXC7
Vinyl Tile Cutter, Cuts 18" Straight or 12" Diagonally	Roberts	12L722
Extendable Floor Roller, 17 to 27" Handle	Westward	13P503
Floor Roller, 100 lbs.	Roberts	12L723
Linoleum Knife, Ergonomic Handle	Westward	13A733
Linoleum Knife, Ergonomic Handle	STANLEY	30HK70
Linoleum Roller, 35 Lbs.	Roberts	5LF64
Linoleum Roller, 75 Lbs.	Roberts	5LF65
Angled Floor Scraper, 4W x 1D x 19"H	Roberts	5HXD0
3" Floor Scraper	Hyde	38HT04
4" Angled Floor Scraper, 12" Steel Handle	Westward	13A589
7" Floor Scraper, 4-Ft. w/Foot Peg Handle	QEP	2WFF1
8" Floor Scraper, 4½ ft. Steel Handle	Westward	13P504
8" Adjustable Floor Scraper, Telescoping, Cushioned Grip, 3 to 6-Ft. Length Handle	QEP	5LG17
14" Floor Scraper, 4½ ft. Steel Handle	Westward	13P507
18" Floor Scraper, 4½ ft. Steel Handle	Westward	13P508
Paint Scraper, 6" Handle	Hyde	5FZH0
4" Stiff Floor Scraper, 18" Steel Handle	Hyde	5FZH2
4" Stiff Floor Scraper, 48" Steel Handle	Hyde	5FZH3
4" Stiff Floor Scraper, 54" Steel Handle	Hyde	5FZH4
6" Stiff Floor Scraper, 55" Wood Handle	Hyde	38HT05
Pressure Sensitive Adhesive, 1 gal.	Roberts	43Z113
Tongue and Groove Adhesive, 1 Pt.	Roberts	43Z102
Felt-Back Sheet Vinyl Adhesive, 1 gal.	Roberts	43Z103
Vinyl Composition Tile Adhesive, 1 gal.	Roberts	43Z104
Tiling Tools and Accessories		
Tile Nipper, 8", Red, Tungsten Carbide	Westward	13P557
End Cutting Nippers, 9", Yellow, Carbide	QEP	43Z108
Grout Saw, 12", Blue	Westward	13P552
Grout Removal Tool, 9"	Westward	13P556
Grout Removal Tool, 9"	QEP	1TGH3
Grout Remover, 2" Blade	Westward	13P559
Nylon Tile and Grout Brush, 2.1"W x 8"L	Westward	13P555
14" Tile Cutter	QEP	35T142
Power Mixer with Paddle	QEP	5HXC6
Mixing Paddle	QEP	5HXC8



Ceramic Tile Installation Kit No. 43Z112

Flooring and Tile Tools

WESTWARD QEP ROBERTS STANLEY HYDE

Description	Brand	Item No.
Extra Large Grout Sponge	QEP	5LG18
Grout Bag, Vinyl w/Metal Tip	Westward	13P550
Grout Bag, Latex w/Silicon Tip	QEP	5LG23
Scratch Brush w/ Scraper Blade, 6"L x 3"W	Hyde	5FZH8
Scratch Brush w/ Scraper Blade, 9¼"L x 3¼"W	Hyde	5FZJ2
Grout Sealer Application Bottle w/Roller	QEP	43Z101
Mixing Paddle	QEP	43Z111
6-Pc. Ceramic Floor Tile Installation Kit		
Includes Molded Rubber Float, ¼ x ⅜ x ¼" Square Notch Floor Trowel, 8" Tile Nippers, Grouting Sponge, Disposable Gloves, Reusable 2.5 gal. Plastic Bucket, Installation Instructions, (Spacers Not Included)	QEP	43Z112
Linoleum and Vinyl Flooring Tools		
Vinyl Tile Cutter, Cuts 12" Straight or 9" Diagonally	Roberts	5LF63
Reversible Floor Scraper, 3¼W x 4D x 59⅜"H	QEP	5HXC9
Tiling Tools and Accessories		
Tile Cutting Pliers, 8", Orange, Carbide Blade	Westward	13P558

Description	For Use With	Brand	Item No.
Replacement Parts			
½" Replacement Wheel	No. 5LF77 Tile Cutter	Westward	13A570
Replacement Blade, 7"	No. 2WFF1 7" Floor Scraper	QEP	2WFF4
Replacement Blade, 8"	No. 13P504 Floor Scraper	Westward	13P534
Replacement Blade, 14"	No. 13P507 Floor Scraper	Westward	13P533
Replacement Blade, 18"	No. 13P508 Floor Scraper	Westward	13P531
Replacement Blades, Pk. of 2	13P552 Floor Scraper	Westward	13P551
Scraper Blade, 4"	Mfr. No. 19430, 19440, 19450	Hyde	5FZH9
Scraper Blade, 6"	Mfr. No. 19430, 19440, 19450	Hyde	5FZJ0
Scraper Blade, 4"	Mfr. No. 10-294	Roberts	5HXD1
Scraper Blade, 8"	QEP 62909	Roberts	12L721







Brick Layer's
Tool Kit
No. 4JB18

Masonry Hand Tools

Description	L (in.)	W (in.)	Brand	Item No.
Trowels and Jointers				
Brick Trowel, Philadelphia Pattern, ErgoSoft	11 in	5 5⁄8 in	Westward	13P516
Brick Trowel, Wide Heel London Pattern, ErgoSoft	11 in	5 1⁄2 in	Westward	13P517
Brick Trowel, Philadelphia Pattern, ErgoSoft PP/TPR	5 1⁄2 in	2 3⁄4 in	Westward	13P523
	7 in	3 5⁄8 in	Westward	13P525
Brick Trowel, London Pattern, DuraSoft®, 1-Pc. Forged	11 in	4 7⁄8 in	Marshalltown	5LN36
Brick Trowel, Narrow London Pattern, ErgoSoft	11 in	4 3⁄4 in	Westward	13P514
Gauging Trowel, ErgoSoft	7 in	3 1⁄2 in	Westward	13P518
Tuckpointing Trowel, ErgoSoft PP/TPR	11 3⁄4 in	1⁄4 in	Westward	13P527
	11 3⁄4 in	1⁄2 in	Westward	13P526
Margin Trowel, ErgoSoft PP/TPR	5 in	2 in	Westward	13P521
Bucket Trowel, Soft-Grip	7 in	4 1⁄2 in	Westward	13A652
Convex Jointer	10 in	15⁄16 in	Westward	13P513

Description	L (in.)	W (in.)	Brand	Item No.
Miscellaneous Masonry Tools				
Brick Tongs	18 1⁄2 in	—	Westward	13P510
Bricklayer Hammer	—	—	Westward	13P535
Acid Brush	8 3⁄8 in	3 in	Westward	13P509
Mason's Line	—	—	Westward	13P512
Mason's Line Winder w/Handle, Orange Braided Nylon, 250 Ft.	—	—	Marshalltown	5LN72
Tool Kits				
9-Pc. Brick Layer's Apprentice Tool Kit: Includes Brick Trowel, Pointing Trowel, Joint Raker, Margin Trowel, Brick Jointer, Line Blocks, Line Winder, Masonry Brush, Canvas Tool Bag			Marshalltown	4JB18









Concrete Hand Tools

- Additional edger and trowel handle types are available on Grainger.com®

Description	L (in.)	W (in.)	Brand	Item No.
Floats				
Hand Float, Magnesium, Bevel Ends, Wood Handle	16	3 1⁄2	Westward	13A755
Hand Float, Rubber, Square Ends, Plastic Handle	9	4	Westward	13P541
Hand Float, Magnesium, Square Ends, DuraSoft Handle	16	3 1⁄8	Marshalltown	22P287
Float Extension Adapter and Brackets				
Bull Float Bracket, Threaded, 4-Hole			Kraft Tool	43Y466
Bull Float Bracket			Marshalltown	22P293
Knucklehead® II Bull Float Bracket, Button, 6-Hole			Kraft Tool	43Y469
EZY-Tilt® II Tilting Bull Float Bracket, Button, 6-Hole			Kraft Tool	43Y468
Bull Float Kit, Includes (4) 1 3⁄4" Handles Mfr. No. 17-8-ASU, (1) Ea: 48 x 8" Square End Bull Float-Blade Mfr. No. B48B, Bull Float Bracket Mfr. No. 16-RKT-N (22P293), and Water Resistant Nylon Tote, With A Rigid Reinforced Base And Stiff Side Panels	48	8	Qlt By Marshalltown	22P308
Trowels				
Concrete Trowel, ErgoSoft PP/TPR Handle	12	4	Westward	13A736
	14	4	Westward	13A738
	16	4	Westward	13A740
	18	4	Westward	13A742
Square Ends, Stainless Steel, Curved DuraSoft® Handle	14	4 3⁄4	Marshalltown	5LP08
Square Ends, Carbon Steel, Curved DuraSoft® Handle	18	4	Marshalltown	5LP10
	20	4	Marshalltown	5LN98
Pool Trowel, Rounded Ends, Carbon Steel, Straight DuraSoft® Handle	14	4	Marshalltown	5LP20
Buttering Trowel, ProForm® Handle	7	4 5⁄8	Kraft Tool	43Y556
Gauging Trowel, ProForm® Handle	7	3 1⁄4	Kraft Tool	43Y557
Duck Bill Trowel, ProForm® Handle	10	2	Kraft Tool	43Y558
Fresno Trowel, Round End, All-Angle Bracket	36	5	Kraft Tool	43Y474
	42	5	Kraft Tool	43Y475
	48	5	Kraft Tool	43Y476
ProForm® Power Troweler Replacement Blades				
Combination, Steel	14	8	Kraft Tool	43Y489

Description	L (in.)	W (in.)	Brand	Item No.
Groovers				
Walking Groover, Stainless Steel, 1⁄4" Radius, 1⁄2 x 1⁄2" Groove, ErgoSoft Handle	6"	3"	Westward	13A754
Concrete Hand Groover, Stainless Steel, 1⁄4" Radius, 1⁄2 x 1⁄2" Groove, DuraSoft® Handle	6"	3"	Marshalltown	5LN25
Edgers				
Universal Edger, Stainless Steel	6"	3"	Westward	13A753
Rub Brick				
Concrete Rub Brick	6"	3"	Marshalltown	22P295
Kneeler Boards				
Polypropylene Cushion Pad	19	13 1⁄2	Westward	13A618
Lightweight, Stainless Steel w/Knee Pads (Pair)	28	8	Kraft Tool	43Y535
Polystyrene w/Knee Pads (Pair)	30	10	Kraft Tool	43Y534
Rebar Tools				
Tie Wire Twister, Steel			Westward	13A617
Placers				
Aluminum Concrete Placer w/o Hook, Textured Foam Grip Incl.			Kraft Tool	43Y495
Handles				
Swaged Handle, Blue Anodized Aluminum	72	1 3⁄8	Kraft Tool	43Y471
Swaged Handle, Aluminum	72	1 3⁄4	Kraft Tool	43Y472
Kumalong® Concrete Mover Handle, Wood	54	1 1⁄8	Kraft Tool	21YH09
Threaded Handle, Lightweight Aluminum	72	1 3⁄4	Marshalltown	22P291
Push Button Handle, Thick Walled Aluminum	72	1 3⁄4	Qlt By Marshalltown	22P289
Mixing Tools				
Mixing Bucket	15	11 7⁄8	Kraft Tool	43Y530
Miscellaneous Concrete Tools				
Concrete Mover			Westward	2MVT7
Concrete Apprentice Tool Kit				
7-Pc. Kit: Includes 12" Wood Float, 16" Magnesium Float, 16" Cement Trowel, 5" Margin Trowel, 6" Stainless Edger, 6" Stainless Groover, Tool Bag	25 1⁄4	10 1⁄4	Westward	13A756
7-Pc. Concrete Apprentice Tool Kit: Includes Finishing Trowel, Margin Trowel, Magnesium Hand Float, Wood Float, Stainless Steel Groover, Curved End Edger, Canvas Tool Bag	—	—	Marshalltown	4JB19

WESTWARD® MARSHALLTOWN The Premier Line KUSHLAN PRODUCTS, LLC

Concrete Mixers

WESTWARD® WHEELBARROW MIXERS

Mixers feature metal blades and a gear locking system. No. 10N693 features a heavy-duty frame and removable handles for compact storage. No. 10N694 has a welded steel frame, torsion bar suspension, and easy-to-use dump mechanism.

MARSHALLTOWN MIXERS

Wheelbarrow Mixer—Hand-tow mixer includes stand and has removable handles for easy storage. Tires are made of flat-free rubber.

Tow-Behind Concrete Electric Mixers, Nos. 18F334 and 18F335—25-rpm mixers feature reinforced square tubular frame with steel channel yoke; wheel- and hand-brake tilting mechanism; and any-position frictional hand brake.

KUSHLAN WHEELBARROW MIXERS

21-rpm electric mixers feature 8" power cords and 5/16"-thick, easy-clean polyethylene drums that resist dents, cracking, and rust. Welded steel frames. Steel mixing blades. No. 2DCL1 holds up to 200-lb. bags of premix concrete. 13¼" x 3" flat-free tires.

KUSHLAN PEDESTAL-MOUNTED MIXERS

21-rpm electric mixers swivel 360° and can be discharged in any direction. Drums can be adjusted to the correct angle for particular mixes. Welded steel frames are easily broken down without tools. 8" power cords included.

No. 22DA24—This mixer is designed with polyethylene drum, heavy-gauge steel tubing frame, and telescoping handles.

No. 2DCL7—Drum holds ten 80-lb. bags of premix concrete. Driven by a 20:1 gear box with a chain sprocket drive system. Aggressive mixing blades. 16" x 4" flat-free tires.

No. 2DCL5—This mixer has a steel frame that's easy to move from place to place. Food-grade liner extracts easily from basket. 10" x 2¼" flat-free tires.

ACCESSORIES

Mixer Stand No. 6LCX9 converts mixer to a stationary unit.


No. 10N693


No. 32ZU70


No. 2DCL1


No. 22DA21

Description	Size	Drum Dia.	Drum Opening	Drum Gauge/Material	Motor	Overall Length	Overall Width	Overall Height	Axle Type	Mfr. Model	Item No.
Westward Mixers											
Wheelbarrow Mixer	3 ½ cu ft	20 ½ in	16¾ in	15 ga, Poly	115V	48 ½ in	25 ½ in	41 ¾ in	Rigid	—	**10N693**
	4 ¾ cu ft	22 ½ in	15¾ in	19 Ga., Steel	120V	55 ½ in	28 in	49 ½ in	Rigid	—	**10N694**
Marshalltown Mixers											
Wheelbarrow Mixer	3 cu ft	24 in	14½ in	20, Steel	115V Direct Drive	45 in	29 in	35 ½ in	Hand Tow	MIX3	**32ZU70**
Mortar Plaster Mixer	12 cu ft	31 in	33⅜ in x 29 in	11 in, Heavy Steel	Gas	85 in	59 in	83 in	Rubber Torsion	1200MP8HP	**35FV48**
Tow Behind	6 cu ft	30 in	18 in	10 Ga., Steel	Honda Gas	75 in	61 in	51 in	Steel U Spring	MIX59289	**18F334**
	6 cu ft	30 in	18 in	10 Ga., Steel	1.5 hp Electric	78 in	54 in	65 in	Rubber Torsion	MIX59292	**18F335**
Kushlan Mixers											
Wheelbarrow Mixer	3½ cu. ft.	22 in	17"	5/16", Poly	120V, ODP	50"	24"	40"	Rigid	350W	**2DCL1**
	3 ½ cu ft	22 in	17 in	5/16 in, Poly	115V Belt Drive	47 in	25 in	44 in	Rigid	KPRO	**22DA14**
	3 ½ cu ft	22 in	17 in	5/16 in, Poly	115V Direct Drive	47 in	25 in	44 in	Rigid	350EPOXY	**22DA16**
	3 ½ cu ft	22 in	17 in	5/16 in, Poly	115V Direct Drive	53 in	25 in	42 in	Rigid	350DD	**22DA20**
	6 cu ft	28 in	18 in	5/16 in, Poly	115V Direct Drive	50 in	29 in	46 in	Rigid	600DD	**22DA21**
Pedestal Mixer	3 ½ cu ft	22 in	17 in	5/16 in, Poly	115V Direct Drive	57 in	29 in	62 in	Rigid	350MP	**22DA24**
	10 cu ft	36 in	16¾ in	5/16 in, Poly	120V, Direct Drive ODP	56 in	42 in	68 in	Rigid	1000DD	**2DCL7**
	4 ½ cu ft	22 in	17 in	5/16 in, Poly	120V, Direct Drive ODP	57 in	36 in	62 in	Rigid	450DD	**2DCL5**
Kushian Accessories											
Cement Mixer Stand, For Use With Nos. 2DCL1										Universal Stand	**6LCX9**
Cement Mixer Drum, For Use With No. 2DCL5										450-3	**6LCY0**
Cement Mixer Drum Lid, For Use With No. 2DCL5										450-4	**6LCY1**

Collomix®

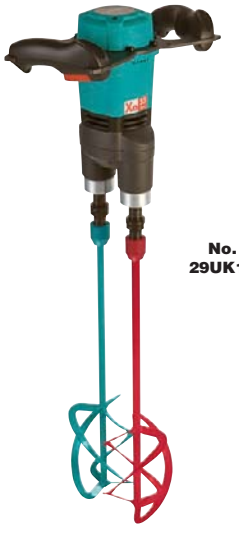
Handheld Concrete Mixers

HEXAFIX® coupling lets you change the mixing paddle quickly without tools. Feature reduced noise and electronic speed control. Easy-to-operate with straight back and ergonomic grip handles. Double-action trigger has safety lock-off to prevent unintentional machine start-up. No. 29UK09 can be used with cement, plaster, and ready-mixed mortar. No. 29UK11 is for plaster, mortar, screed, concrete, and quartz-filled epoxy resins. Counter-rotating mixer No. 29UK12 has no counter-torque, making it easy to move in heavy and viscous material. Ideal for miscellaneous mortars, slightly moist mixes, plaster, screed, coverings, filler, filled and unfilled epoxy resin, cement, and bitumen mixes.

Description	HP	Rotation Speed at Load	Mixing Volume	Mfr. Model	Item No.
Handheld Mixers					
Mixer	1 13/32	0 to 590 rpm	0 to 10 gal.	XO1	**29UK09**
2-Gear Mixer	1 45/64	0 to 470 rpm, 0 to 640 rpm	0 to 17 gal.	XO4	**29UK10**
2-Gear Mixer	2 1/64	0 to 410 rpm, 0 to 580 rpm	0 to 23.5 gal.	XO6	**29UK11**
2-Paddle Mixer	1 29/32	0 to 430 rpm	0 to 25 gal.	XO55	**29UK12**

Description	For Use With	Mfr. Model	Item No.
Mixing Paddles			
2-Blade	Mfr. No. XO1, CX100	WK120HF	**29UK14**
3-Blade	Mfr. No. XO6, CX600	MK160HF	**29UK19**
Bird Cage	Mfr. No. XO1, CX100	KR120HF	**29UK16**
Low Viscosity	Mfr. No. XO4, XO6	DLX152HF	**29UK13**
Dual	Mfr. No. XO55, CX44	MKD140HF	**29UK21**
Concrete Stirring Paddle	Mfr. No. XO4, XO6	WK140HF	**29UK15**


No. 29UK09


No. 29UK12



Formula Shell® Clean Engine
No. 33GP21



MAG 1®
No. 43Y876



Mobil Super™
No. 12G345



Mobil Super™ High Mileage
No. 12G350



Pennzoil®
No. 33GP82



Quaker State® Advanced Durability™
No. 33GR68



Valvoline® All Climate Premium
No. 1UBX2



Valvoline® VR1
No. 46KK40

Conventional Engine Oil

SAE Grade	Size	Item No.
Everest™		
5W-30	5 gal.	19D162
	55 gal.	19D163
10W-30	5 gal.	19D164
	55 gal.	19D165
Formula Shell® Clean Engine		
5W-20	1 qt.	33GP30
	55 gal.	33GP29
5W-30	1 qt.	33GP33
	5 qt.	33GP31
10W-30	1 qt.	33GP21
	5 qt.	33GP19
	55 gal.	33GP20
10W-40	1 qt.	33GP24
	5 qt.	33GP22
20W-50	1 qt.	33GP26
	55 gal.	33GP25
30W	1 qt.	33GP27
MAG 1®		
10W-30	1 qt.	43Y876
	5 qt.	43Y877
10W-40	1 qt.	43Y882
20W-50	32 oz.	49EP09

SAE Grade	Size	Item No.
30W	1 qt.	43Y892
Mobil Super™		
5W-20	1 qt.	12G346
5W-30	1 qt.	12G347
10W-30	1 qt.	12G344
10W-40	1 qt.	12G345
Mobil Super™ High Mileage		
5W-30	1 qt.	12G350
10W-30	1 qt.	12G348
10W-40	1 qt.	12G349
Pennzoil®		
5W-20	1 qt.	40GT26
	55 gal.	33GP80
5W-30	1 qt.	40GT25
	5 qt.	33GP82
	55 gal.	33GP81
10W-30	1 qt.	40GT28
	5 qt.	33GP75
	55 gal.	33GP74
10W-40	1 qt.	40GT24
20W-50	1 qt.	40GT30
	5 qt.	33GP78

SAE Grade	Size	Item No.
30W	1 qt.	40GT27
Pennzoil® High Mileage		
5W-20	1 qt.	33GP97
5W-30	1 qt.	33GR01
	55 gal.	33GP99
10W-30	1 qt.	33GP91
	5 qt.	33GP93
	55 gal.	33GP92
10W-40	1 qt.	33GP95
	5 qt.	33GP96
Quaker State®		
30W	1 qt.	33GR85
Quaker State® Advanced Durability™		
5W-20	5 qt.	33GR65
	55 gal.	33GR66
5W-30	5 qt.	33GR68
	55 gal.	33GR67
10W-30	55 gal.	33GR59
10W-40	5 qt.	33GR63
	55 gal.	33GR62
20W-50	5 qt.	33GR64

SAE Grade	Size	Item No.
Valvoline® Non-Detergent		
30W	1 qt.	1UBY5
Valvoline® All Climate Premium		
5W-20	1 qt.	1UBY4
	5 qt.	46KK42
5W-30	1 qt.	1UBY3
	5 qt.	21A120
	55 gal.	2MWD6
10W-30	1 qt.	1UBX2
	5 qt.	21A118
	55 gal.	2MWD7
10W-40	1 qt.	1UBX5
	5 qt.	21A119
20W-50	1 qt.	1UBX3
Valvoline® MaxLife™ High Mileage		
5W-20	5 qt.	46KK43
Valvoline® Super HPO Premium		
30W	1 qt.	1UBX8
40W	1 qt.	1UBX9
50W	1 qt.	1UBY1
Valvoline® VR1		
10W-30	1 qt.	46KK51
20W-50	1 qt.	46KK40
30W	1 qt.	453A92
40W	1 qt.	453A91
50W	1 qt.	46KK45



No. 33ME26



No. 49EP12



No. 33GP83



No. 33GR69



No. 33GR78



No. 4JPR7



No. 1UBZ8



No. 21A123

Synthetic Blend Engine Oil

SAE Grade	Size	Item No.
CITGO® Supergard		
5W-30	1 qt.	33ME26
10W-30	1 qt.	33ME27
MAG 1®		
5W-20	1 qt.	43Y884
	5 qt.	49EP10
5W-30	1 qt.	43Y887
	5 qt.	43Y888
MAG 1® High Mileage		
5W-20	1 qt.	43Y886
	5 qt.	49EP11
5W-30	1 qt.	43Y891
	5 qt.	49EP12
10W-30	1 qt.	43Y881
	5 qt.	49EP13
10W-40	1 qt.	43Y883

SAE Grade	Size	Item No.
Pennzoil® dexos1™		
5W-30	1 qt.	33GP83
Pennzoil® Gold™		
5W-20	55 gal.	33GP88
5W-30	1 qt.	33GP89
Quaker State® Defy™ High Mileage		
10W-30	1 qt.	33GR69
Quaker State® dexos™		
5W-30	1 qt.	33GR57
Quaker State® Enhanced Durability™		
5W-20	1 qt.	33GR78
	55 gal.	33GR77
5W-30	55 gal.	33GR58

SAE Grade	Size	Item No.
Renewable Lubricants		
5W-30	1 gal.	4JPT5
10W-30	1 qt.	4JPR7
15W-40	1 qt.	4JPR9
30W	1 gal.	4JPT3
Valvoline® Durablend®		
5W-20	1 qt.	1UBZ8
	5 gal.	453C18
5W-30	1 qt.	1UBZ9
	5 gal.	453C19
10W-30	1 qt.	1UCB1
10W-40	1 qt.	1UCB2
Valvoline® MaxLife™		
0W-20	5 gal.	453C09
5W-30	5 gal.	453C08

SAE Grade	Size	Item No.
Valvoline® MaxLife™ High Mileage		
5W-20	1 qt.	1UBZ4
5W-30	1 qt.	1UBZ6
	5 qt.	21A123
10W-30	1 qt.	1UBZ1
	5 qt.	21A121
10W-40	1 qt.	1UBZ3
	5 qt.	21A122
20W-50	1 qt.	1UBZ7


No. 45KJ13


No. 33GP39


No. 5XB58


No. 33GR11


No. 33GR17


No. 453A94


No. 453A66

Full Synthetic Engine Oil

Breakdown-resistant formulas withstand high and low temperatures better than conventional oil, offering improved performance.

SAE Grade	Dexos Rating	Size	Item No.
CITGO® Supergard			
0W-20	1	1 qt.	**45KJ13**
5W-20	No	1 qt.	**45KJ09**
	No	55 gal.	**45KJ07**
5W-30	No	1 qt.	**45KJ17**
10W-30	No	1 qt.	**45KJ19**
Everest™			
5W-30	1	5 gal.	**19D166**
	1	55 gal.	**19D167**
10W-30	1	5 gal.	**19D168**
	1	55 gal.	**19D169**
Formula Shell®			
5W-20	No	1 qt.	**33GP38**
5W-30	No	1 qt.	**33GP39**
10W-30	No	1 qt.	**33GP36**
MAG 1®			
0W-20	2	5 qt.	**49EP14**
5W-20	No	1 qt.	**43Y885**
	No	5 qt.	**49EP15**
5W-30	2	1 qt.	**43Y890**
	2	5 qt.	**49EP16**
10W-30	No	1 qt.	**43Y880**
	No	5 qt.	**49EP17**

SAE Grade	Dexos Rating	Size	Item No.
Mobil 1™			
0W-20	1	1 qt.	**4NYX8**
0W-30	1	1 qt.	**5XB57**
0W-40	No	1 qt.	**4NYX9**
5W-20	1	1 qt.	**3GZY1**
5W-30	1	1 qt.	**5XB56**
10W-30	No	1 qt.	**5XB58**
15W-50	No	1 qt.	**4NYY1**
Pennzoil®			
10W-30	No	1 qt.	**33GR04**
Pennzoil® Platinum™			
0W-20	No	1 qt.	**33GR03**
	No	55 gal.	**33GR02**
5W-20	No	1 qt.	**33GR07**
	No	55 gal.	**33GR08**
5W-30	No	1 qt.	**33GR09**
	No	5 qt.	**33GR11**
	No	55 gal.	**33GR42**

SAE Grade	Dexos Rating	Size	Item No.
Pennzoil® Ultra Platinum™			
5W-20	No	1 qt.	**33GR16**
5W-30	No	1 qt.	**33GR17**
	No	55 gal.	**33GR10**
10W-30	No	1 qt.	**33GR15**
Pennzoil® Ultra Platinum™ European Engine			
5W-40	No	1 qt.	**33GR21**
	No	55 gal.	**33GR22**
Quaker State® Ultimate Durability™			
0W-20	No	55 gal.	**33GR87**
5W-30	No	55 gal.	**33GR95**
5W-50	No	55 gal.	**33GR98**
Quaker State® Ultimate Durability™ European Engine			
5W-30	No	55 gal.	**33GT03**
5W-40	No	55 gal.	**33GT01**
Valvoline® MaxLife™			
5W-20	No	5 gal.	**453C07**
Valvoline® Max Tech			
0W-20	No	5 qt.	**453A94**

SAE Grade	Dexos Rating	Size	Item No.
Valvoline® Synpower®			
0W-20	1	32 oz.	**4NPH4**
0W-40	No	1 qt.	**453A95**
5W-20	No	5 gal.	**453C16**
	1	32 oz.	**4NPH6**
5W-30	2	1 qt.	**46KK48**
	No	5 gal.	**453C12**
	No	5 gal.	**453C14**
	1	5 qt.	**46KK41**
	1	32 oz.	**4NPH8**
5W-40	No	5 gal.	**453C10**
	2	32 oz.	**4NPH9**
10W-30	No	5 qt.	**46KK47**
	No	32 oz.	**4NPH5**
20W-50	No	32 oz.	**4NPH7**
Valvoline® Synpower® High Mileage			
0W-20	1	1 qt.	**46KK49**
5W-20	1	1 qt.	**46KK50**
Valvoline® Synthetic MaxLife™ High Mileage			
5W-30	1	32 oz.	**4NPH2**
10W-30	No	32 oz.	**4NPH3**
Valvoline® VR1			
20W-50	No	1 qt.	**453A66**


No. 4NPJ4


No. 33GR36


No. 52HG19


No. 453A77


No. 43Y867


No. 41AA47

Small Engine and Marine Oil

Lubricants are made to meet the requirements of engines that require an oil/gasoline premix; variable ratio oil injection systems; and motorcycles, ATVs, inboard/outboard boat engines.

Brand	SAE Grade	Size	Base Oil	Std.	Item No.
Gasoline Engines					
ATV/UTV					
Valvoline®	10W-40	1 qt	Conventional	API, JASO	**4NPJ4**
Marine					
Quicksilver	25W-40	1 qt	Conventional	FC-W and FC-W Catalyst Compatible	**52HG15**
Motorcycles					
Valvoline®	10W-40	1 qt	Conventional	API, JASO	**4NPJ1**
	20W-50	1 qt	Conventional	API, JASO	**4NPJ2**
Snowmobiles, Watercraft ATVs & Motorcycles					
MAG 1®	10W-40	1 qt	Synthetic Blend	API SL, JASO MA, JASO MA-2	**43Y869**

Brand	SAE Grade	Size	Base Oil	Std.	Item No.
2-Cycle Engines					
Marine					
Pennzoil®		1 gal	Synthetic Blend	TC-W3	**33GR36**
Quicksilver		1.1 gal	Conventional	—	**52HG19**
Valvoline®		1 gal	Conventional	BIA, NMMA TCW3	**453A77**
		1 qt	Conventional	BIA, NMMA TCW3	**453A90**
		16 oz	Synthetic Blend	BIA, NMMA TCW3	**4NPN8**
Marine, Motorcycles, Snowmobiles, Chain Saws, & Garden Equipment					
MAG 1®		1 gal	Conventional	NMMA TCW-3, JASO FB, API TC	**20RW79**
		1 qt	Conventional	NMMA TCW-3, JASO FB, API TC	**43Y867**
		16 oz	Conventional	NMMA TCW-3, JASO FB, API TC	**20RW77**
Quicksilver		1 gal	Conventional	TC-W3	**52HG18**
		16 oz	Conventional	TC-W3	**52HG16**
Renewable Lubricants		1 gal	Bio-Synthetic	ASTM & TC-W	**4JPR2**
		1 gal	Bio-Synthetic	ASTM, TC-W & TC-WII	**4JPR4**
		1 qt	Bio-Synthetic	ASTM & TC-W	**4JPR1**
		1 qt	Bio-Synthetic	ASTM, TC-W & TC-WII	**4JPR3**
Valvoline®		1 qt	Synthetic Blend	ASTM, API TC, NMMA, TC-W3 certified	**1UCB9**
Motorcycles, Snowmobiles, Chain Saws, & Garden Equipment					
Lubrimatic		1 qt	Conventional	—	**41AA47**

CNG/LNG Synthetic Blend Engine Oil

Developed as lubricants for engines fueled by compressed natural gas (CNG) and liquefied natural gas (LNG) in transit and other demanding mobile applications.

Description	SAE Grade	Size	Item No.
Valvoline™ Premium Blue®	15W-40	5 gal.	**4NPT2**
Valvoline™ Premium Blue® GEO	15W-40	55 gal.	**46KK31**
CITGO® Citgard®	15W-40	55 gal.	**33ME44**
Shell Rotella® T3	15W-40	55 gal.	**33GP63**


No. 4NPT2


No. 33ME30


No. 4ZF24


No. 52NE01


No. 1UBY7

CITGO LUBRICANTS · EVEREST™ · MAG1 · Mobil™ · Valvoline™ · Mystik LUBRICANTS

Diesel Engine Oil

Lubricants are designed to maintain performance and extend the life of diesel motors.

SAE Grade	Size	Item No.
Conventional		
CITGO® Citgard 600		
15W-40	1 gal.	33ME30
	55 gal.	33ME29
10W	55 gal.	33ME28
Everest™		
15W-40	5 gal.	19D160
	55 gal.	19D161
MAG 1®		
10W-30	1 gal.	20RW86
15W-40	1 gal.	43Y894
	1 qt.	43Y899
	2.5 gal.	49EP08
	55 gal.	43Y901
30W	1 qt.	43Y902
	5 gal.	43Y896
40W	5 gal.	43Y897
Mobil Delvac™ 1230		
30W	1 qt.	6KXK8
Mobil Delvac™ 1300 Super		
15W-40	1 gal.	4ZF24
Mobil Delvac™ MX		
15W-40	1 gal.	4NYY4
	1 qt.	4NYY3
Shell Rotella® T1		
30W	1 gal.	52ND94
	1 qt.	33GP53
	5 gal.	33GP52
	55 gal.	33GP50
40W	1 gal.	52ND95
	1 qt.	33GP57
	5 gal.	33GP56
	55 gal.	33GP55
50W	5 gal.	33GP59
	55 gal.	33GP58
10W	55 gal.	33GP49
Shell Rotella® T4		
10W-30	1 gal.	52ND96
	55 gal.	52ND97
15W-40	1 gal.	52NE01
	2.5 gal.	52ND99
	5 gal.	52NE02
	55 gal.	52NE03
Shell Rotella® T5		
10W-30	1 gal.	52NE09
	2.5 gal.	52NE08
Valvoline® All-Fleet® Plus		
15W-40	1 gal.	4NPT8
	1 qt.	1UBY6
	5 gal.	4NPT7
	55 gal.	2MWE1
30W	1 qt.	1UBY8
	5 gal.	4NPT4
40W	5 gal.	4NPT6
Valvoline® Premium Blue™		
15W-40	1 gal.	1UBY7
	5 gal.	4NPR8
	55 gal.	2MWE3
40W	55 gal.	453C32
Valvoline® Premium Blue™ GEO		
15W-40	1 gal.	46KK32
Full Synthetic		
MAG 1®		
5W-40	1 gal.	43Y898
Mobil Delvac™ 1		
5W-40	1 gal.	5XB62
Shell Rotella® T6		
5W-40	1 gal.	52NE06
	1 qt.	33GP72
Valvoline® Premium Blue™		
5W-40	1 gal.	4NPT1
	55 gal.	453C31
Synthetic Blend		
CITGO® Citgard 700		
10W-30	1 gal.	54HD75
Mystik JT-8		
15W-40	2 gal.	33MF01
	2 gal.	400F53
	5 gal.	400F52
	55 gal.	400F54
15W-50	5 gal.	33MF03
	55 gal.	33MF02
Shell Rotella® T5		
10W-30	55 gal.	52NE07
15W-40	1 gal.	52NE10
Valvoline® Premium Blue™		
10W-30	55 gal.	453A89
	55 gal.	453C15
5W-40	1 gal.	453C04


No. 6MGJ8


No. 48RH21


No. 54UD30

Valvoline™ · PEAK · KleenDEF

DEF Diesel Exhaust Fluid

Specially blended to help meet the EPA's near-zero emission requirements in selective catalytic reduction (SCR) diesel engines.

Size	Item No.
Valvoline Premium Blue™	
2.5 gal.	6MGJ8
55 gal.	6MGJ9
330 gal.	21A076
Peak Blue DEF	
1 gal.	48RH21
2.5 gal	48RH22
55 gal.	48RH23
330 gal.	48RH24
Kleen Def	
2.5 gal.	54UD30
55 gal.	54UD31

PEAK

BlueDEF® Transfer Pumps

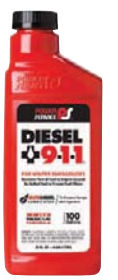
Engineered to provide strong delivery pressure that leads to strong pumping efficiency dispensing diesel exhaust fluid from 55-gal. drums. Designs feature automatic shutoff nozzles to help prevent over-pumping.


No. 487A71

GPM	Hose Length	Includes	Voltage	Mfr. Model	Item No.
Electric Operated Drum Pump					
7 to 9	20 ft.	Pump, Bracket, Dispense Hose, Suction Hose, Fittings, Nozzle	115VAC	DEFTB20SN	48RH25
8 to 10	13 ft.	Discharge Hose, Polyethylene Nozzle, Drum Adapter	120VAC	DEFDP120	487A71
8 to 10	13 ft.		12VDC	DEFDP12V	487A72
Electric Operated Tote Pump					
8 to 10	20 ft.	4 ft. Suction, Discharge Hose, Stainless Steel Nozzle	120VAC	DEFTP120SN	487A77
8 to 10	20 ft.	4 ft. Suction, Discharge Hose, Polyethylene Nozzle	120VAC	DEFTP120MN	487A76
8 to 10	20 ft.		12VDC	DEFTP12VMN	487A79
Hand Operated Drum Pump					
1	10 ft.	2" Bung Adapter, Expandable Down Tube, 10 ft. DEF Dispense Hose and Poly Nozzle	—	DEFR12068010	48RH27
0.13	20 ft.	Expandable Downtube, Drum Adater	—	DEFDPHP	487A70


No. 1YHR3


No. 49U501


No. 49EP32


No. 10N803

CRC · Diesel Power! Diesel Fuel Additives · B3C Fuel Solutions · Power Service Diesel Additives · STA-BIL

Diesel Fuel Additives

Description	Treats up to	Size	Item No.
Diesel Fuel			
CRC			
Diesel Cold Flow™ Diesel Fuel Anti-Gel with Lubricity	500 gal. Fuel	1 qt.	1YHR9
Diesel Fuel Therapy® Diesel Injector Cleaner	125 gal. Fuel	1 qt.	1YHR3
Diesel Power			
Diesel System Cleaner and Cetane Booster	150 gal. Fuel	20 oz.	2AEN9
DieselPower!® Diesel Fuel Anti-Gel	150 gal. Fuel	20 oz.	2AEN8
	250 gal. Fuel	32 oz.	481Z31
DieselPower!® Diesel Injector Cleaner	35 gal. Fuel	12 oz.	2AUP6
DieselPower!® Diesel System Cleaner	35 gal. Fuel	12 oz.	2AUP5
DieselPower!® Performance Improver and Cetane Booster	35 gal. Fuel	12 oz.	2AEN1
	150 gal. Fuel	20 oz.	2AEN7
Diesel/Bio-Diesel Blends			
B3C Fuel Solutions			
Diesel Mechanic In A Bottle™ Diesel System Cleaner	1 oz. or per 10 gal. Fuel	8 oz.	49U499
	1 oz. or per 10 gal. Fuel	24 oz.	49U501
	1 oz. or per 10 gal. Fuel	1 gal.	49U502
CRC			
Diesel Fuel Therapy® Diesel Injector Cleaner with Anti-Gel	125 gal. Fuel	1 qt.	1YHP1
Power Service Products			
Bio Kleen® Diesel Fuel Biocide	320 gal. Fuel	16 oz.	49EP34
Clear-Diesel® Diesel Fuel and Tank Cleaner	100 gal. Fuel	32 oz.	49EP35
Diesel 911® Reliquefies Gelled Diesel fuel	100 gal. Fuel	32 oz.	49EP32
	250 gal. Fuel	80 oz.	49EP33
Diesel Fuel Supplement® +Cetane Boost®	40 gal. Fuel	16 oz.	49EP24
	100 gal. Fuel	32 oz.	49EP25
	250 gal. Fuel	80 oz.	49EP26
	3750 gal. Fuel	2.5 gal.	49EP27
Diesel Kleen® +Cetane Boost® Diesel System Cleaner and Cetane Booster	40 gal. Fuel	16 oz.	49EP28
	100 gal. Fuel	32 oz.	49EP29
	250 gal. Fuel	80 oz.	49EP30
	3750 gal. Fuel	2.5 gal.	49EP31
Sta-Bil			
Diesel Fuel Stabilizer	320 gal. Fuel	32 oz.	10N802
	1280 gal. Fuel	1 gal.	10N803

Engine Maintenance Additives

Description	Size	Mfr. Model	Item No.
Engine and Oil Additives			
Bar's Leak Concentrated Rear Main Seal Repair	16.9 oz.	1040	**36D346**
Turtle Wax® Marvel Mystery Oil® Oil Additive	16 oz.	MM12R	**19D071**
Turtle Wax, Marvel Mystery Oil® Oil Additive	32 oz.	MM13R	**1UET3**
Marvel Mystery Oil® Oil Additive	1 gal.	MM14R	**1UET4**
No-Leak® Engine Oil Treatment	16 oz.	20401	**5EVY0**
Slick 50® Engine Oil Treatment	15 oz.	75001	**465D28**
Rislone 3X Concentrated Engine Oil Supplement with Zinc Treatment	11 oz.	4405	**36D348**
Seafoam® Motor Treatment	16 oz.	SF16	**20RW99**
Engine Cleaners			
Pyroil™ Engine Flush	30 oz.	PYEF30	**21A059**
Ignition Sealer and Internal Engine Coating			
STA-BIL® Fogging Oil	12 oz.	22001	**2AEP1**
Fluid System Leak Detection Dyes			
Supercool™ Multipurpose Total Dye	1 oz.	16525	**4LTU8**
Tracerline® Dye-Lite® All-In-One™	1 oz.	TP-3405	**36PW58**



No. 36D346



No. 1UET4



No. 5EVY0



No. 465D28



No. 20RW99



No. 4LTU8

Transmission Fluids

A variety of formulations are offered to help keep automatic and manual transmissions operating effectively. Consult the owners manual for specific recommendations for a given vehicle.

Type	Size	Brand	Item No.
Automatic Transmission Fluid			
For Use With Allison Transmission			
Delvac™ Synthetic	1 gal.	Mobil	**4NYY2**
For Use With Chrysler			
ATF + 4®	1 qt.	Valvoline	**1UCB4**
	1 qt.	Pennzoil	**49DR42**
	32 oz.	Mag 1	**20RW84**
For Use With Ford			
Mercon® V	1 qt.	Valvoline	**1PKU3**
	1 qt.	Citgo	**45KJ29**
	32 oz.	Mag 1	**49EP20**
Type F	1 qt.	Mag 1	**43Y875**
	1 qt.	Valvoline	**1UCB5**
For Use With General Motors			
Dexron® VI	1 qt.	Valvoline	**1UCB7**
	1 qt.	Citgo	**45KJ26**
For Use With General Motors and Ford			
Dex-III/Mer	1 gal.	Mag 1	**43Y873**
	1 gal.	Valvoline	**1UCB6**
	1 qt.	Mag 1	**43Y871**
	1 qt.	Valvoline	**1PKU2**
	1 qt.	Mobil	**5XB55**
	2.5 gal.	Mag 1	**49EP18**
	5 gal.	Mag 1	**43Y872**
	5 gal.	Valvoline	**4NPJ6**
	55 gal.	Valvoline	**2MWD9**
For Use With Import Multi-Vehicle			
Import	1 qt.	Valvoline	**46KK44**
For Use With Multi-Vehicle			
Dex-III/Mer	1 gal.	Valvoline	**4NPJ5**
	1 qt.	Valvoline	**1PKU4**
	1 qt.	Pennzoil	**40GT23**
	1 qt.	Citgo	**45KJ36**
	5 gal.	Everest	**19D172**
	5 gal.	Valvoline	**453C11**
	32 oz.	Mag 1	**20RW83**
	55 gal.	Everest	**19D173**
	55 gal.	Valvoline	**2MWD8**
Dexron® VI/ Mercon® LV	1 qt.	Mag 1	**43Y874**
	1 qt.	Citgo	**45KJ32**
Synthetic ATF	1 qt.	Mobil 1	**6Y776**



No. 45KJ26

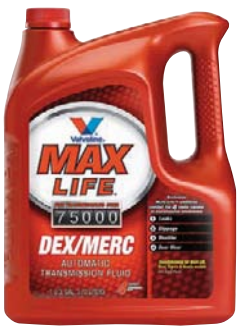


No. 6Y776

Type	Size	Brand	Item No.
Automatic Transmission Fluid with Stop Leak			
Stop Leak	1 qt.	Mag 1	**43Y860**
	1 qt.	Valvoline	**4NPP8**
Continuously Variable Transmission Fluid			
CVT	1 gal.	Valvoline	**453C06**
	1 qt.	Valvoline	**6MGK0**
SynPower CVT	5 gal.	Valvoline	**453C13**
Drive Train Transmission Oil For Use With Off-Road Applications			
Drive Train 30W	5 gal.	Valvoline	**4NPU8**
Drive Train 50W	5 gal.	Valvoline	**4NPU9**
Mobilfluid 424	2.5 gal.	Mobil	**4ZF29**
Mobiltrans HD 10W	5 gal.	Mobil	**1MRG6**
Mobiltrans HD 30W	5 gal.	Mobil	**1MRG7**
Manual Transmission Fluid For Use With General Motors and Chrysler			
Synchromesh	1 qt.	Pennzoil	**33GR48**
	1 qt.	Valvoline	**46KK52**
For Use With Heavy & Medium Duty Truck			
Delvac 1™ 50W	1 gal.	Mobil	**1MRG2**
SYN GARD™	5 gal.	Valvoline	**453C03**



No. 1PKU2



No. 4NPJ5



No. 43Y860



No. 453C06

Carburetor Cleaners

Maximize carburetor performance, improves fuel system performance, and ensures maximum fuel economy.

Brand	Non-Chlorinated	Flammable	Container Size	Item No.	Pkg. Qty.
Less Than or Equal to 10% / 10g/L					
CRC	Yes	Yes	16 oz.	**19MX68**	1
	Yes	Yes	20 oz.	**19MX69**	1
Gumout	Yes	Yes	14 oz.	**465D34**	1
	Yes	Yes	16 oz.	**465D33**	1
K&W	Yes	Yes	24 oz.	**19MY86**	1
10% to 50% / 10 to 500g/L					
CRC	Yes	Yes	12 oz.	**2F135**	1
Pyroil	Yes	Yes	18.10 oz.	**1PKT8**	1
Greater Than 50% / 500g/L					
3M	Yes	Yes	8.50 oz.	**2CTF9**	1
CRC	Yes	Yes	20 oz.	**35WT62**	1



No. 465D34



No. 19MY86



No. 2F135



No. 2CTF9

Starting Fluids

Designed to quickly start engines and help reduce wear on starter motors and avoid excessive battery drain.

Brand	Size	Item No.	Pkg. Qty.
For Use With Gasoline, Diesel and 2-Cycle			
Pyroil	11 oz.	**21A070**	1
Pyroil	7.5 oz.	**21A071**	1
Zep	11 oz.	**43NT07**	12



No. 21A070



No. 43NT07

Scan. Order. Done.
Details on page A1.



No. 4ZF27



No. 45LW32



No. 4NPK8



No. 43Y904



No. 4F744

Castrol | CITGO LUBRICANTS | MAG 1

Mobil™ | Valvoline™

Gear Oil and Lubricants

Designed to provide the performance specifications for the intended use as defined by the API category level or SAE standard.

SAE Grade	Base Oil	API Category/SAE Standards	Viscosity Index	Container Size	Item No.
Castrol					
For Autos/Light Duty Trucks					
75W-90	Synthetic	API GL-5	Syntrax Long Life	15 gal.	**45LW32**
CITGO®					
For Differentials, Manual Transmissions, Trucks, Tractors, Industrial Gear Drives, Automobiles, Farm Machinery					
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	143	5 gal.	**33ME41**
	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	143	55 gal.	**33ME40**
80W-140	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	142	5 gal.	**33ME42**
For Heavy-Duty Service In Manual Transmission					
50W	Mineral	API GL-4 and MT-1	151	5 gal.	**33ME43**
For Transmissions, Differentials, Final Drives and Other Gear Cases of Trucks, Buses and Farm Equipment					
80W-90	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	99	5 gal.	**33ME38**
85W-140	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	97	5 gal.	**33ME39**
Mag 1®					
Gear Oils					
75W-140	Synthetic	API GL-5 and MT-1; SAE J2360	186	1 qt.	**43Y903**
75W-90	Synthetic	API GL-5 and MT-1; SAE J2360	162	1 qt.	**43Y904**
80W-90	Mineral	API GL-5 and MT-1; SAE J2360	104	1 qt.	**43Y908**
	Mineral	API GL-5 and MT-1; SAE J2360	104	1 gal.	**43Y906**
	Mineral	API GL-5 and MT-1; SAE J2360	104	2.5 gal.	**43Y905**
85W-140	Mineral	API GL-5 and MT-1; SAE J2360	100	1 qt.	**43Y911**
	Mineral	API GL-5 and MT-1; SAE J2360	100	2.5 gal.	**43Y909**
	Mineral	API GL-5 and MT-1; SAE J2360	100	5 gal.	**43Y910**
Mobil					
For Axles, Final Drives and Some Manual Transmissions On Cars, Trucks, Tractors and Contractor and Mining Equipment					
80W-90	Mineral	API GL-5, API MT-1, SAE J2360, SCANIA STO-1:0, Mil-PRF-2105E	103	1 qt.	**4F979**
	Mineral	API GL-5, API MT-1, SAE J2360, SCANIA STO-1:0, Mil-PRF-2105E	103	2.5 gal.	**4ZF27**
85W-140	Mineral	API GL-5, API MT-1, SAE J2360, SCANIA STO-1:0, Mil-PRF-2105E	99	1 qt.	**4F980**
	Mineral	API GL-5, API MT-1, SAE J2360, SCANIA STO-1:0, Mil-PRF-2105E	99	2.5 gal.	**4ZF28**
For Off-Highway Industries Including: Construction, Mining, Quarrying, and Agriculture. On-Highway Trucks, Buses, and Vans					
75W-90	Synthetic	API GL-5 and MT-1; SAE J2360	140	1 gal.	**1MRG1**
Vehicles, Construction, Mining and Agriculture Equipment					
75W-90	Synthetic	ASTM	140	5 gal.	**45MY89**
Mobil 1					
For Year-round Automotive Use in some Manual Transmissions, Differentials and Light to Medium Duty Gearboxes					
75W-90	Synthetic	API GL-5	142	1 qt.	**4F744**
Valvoline™					
For Autos/Light Duty/Heavy Duty Trucks					
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360, Eaton, Meritor, MACK	152	5 gal.	**4NPU1**
	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360, Eaton, Meritor, MACK	152	16 gal.	**4NPT9**
80W-140	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360, Eaton, Meritor, MACK	146	5 gal.	**4NPU2**
For Autos/Light Duty Trucks					
75W-140	Synthetic	API GL-4, GL-5	183	1 qt.	**4NPL3**
	Synthetic	API GL-4, GL-5	183	5 gal.	**4NPL2**
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	178	1 qt.	**4NPL1**
	Mineral	API GL-4, GL-5	166	1 qt.	**4NPK1**
80W-90	Mineral	API GL-4, GL-5	96	1 qt.	**4NPK9**
	Mineral	API GL-4, GL-5	96	1 gal.	**4NPK8**
	Mineral	API GL-4, GL-5	96	5 gal.	**4NPK7**
	Mineral	API GL-4, GL-5	96	16 gal.	**4NPK6**
85W-140	Mineral	API GL-4, GL-5	98	1 qt.	**4NPK5**
	Mineral	API GL-4, GL-5	98	5 gal.	**4NPK3**
90W	Mineral	API GL1	95	5 gal.	**4NPU3**
For Autos And Light Duty Trucks					
80W-90	Mineral	API GL-4, GL-5	96	55 gal.	**2MWE5**



No. 33ME67



No. 43Y919



No. 5EVZ1



No. 4JPU2



No. 6AHY2

CITGO LUBRICANTS | K&W | MAG 1 | Mystik LUBRICANTS

RENEWABLE LUBRICANTS | S.A.M. Snowplow Aftermarket Manufacturing | Sta-Lube | Valvoline™

Hydraulic and Lubricant Oil

CITGO

CITGEAR® SYN HT 220 Hydraulic Oil—Features lower coefficients of friction than conventional mineral oils.

Pacemaker®—Contains a defoamer and is readily separable from water.

TRANSGARD®—Protect tractor transmissions, axles, and hydraulic pumps. Friction and heat transfer characteristics.

MAG 1®

Chatter suppression with precise clutch and wet brake operation; resistance to thermal degradation; and rust and corrosion protection.

K&W

Trans-X® Posi-Trac®— Designed to quiet chattering differentials.

RENEWABLE LUBRICANTS BIO-SYNXTRA

For powershift transmissions, final drives, PTOs, hydraulic, and brakes. USDA BioPreferred Designated.

SNOWPLOW AFTERMARKET MANUFACTURING

S.A.M. Hydraulic Oil—Nonfoaming, anti-wear formula with antifreeze additive.

VALVOLINE®

Tractor Hydraulic Fluid—Extreme pressure and antiwear properties, plus rust, corrosion, and oxidation resistance.

AW—Zinc-based, nondetergent lubricant with rust and foam inhibitors.

Unitrac™—Reduces wet brake and PTO chatter and provides antiwear, oxidation, ferrous rust, and copper corrosion protection.

Description	Size	ISO Viscosity Grade	Viscosity Index	Item No.
Citgo				
CITGEAR® SYN HT 220 Hydraulic Oil	5 gal.	220	149	**33MF33**
HyDurance® AW NZ Hydraulic Fluid	5 gal.	32	110	**33ME67**
Pacemaker® Hydraulic Oil	55 gal.	220	98	**33MF31**
TransGard® Tractor Hydraulic Fluid	5 gal.	—	140	**33ME54**
TransGard® Tractor Hydraulic Fluid	55 gal.	—	140	**33ME53**
K&W				
Trans-X® Posi-Trac® Limited Slip Gear Oil Additive	7 oz.	—	—	**5EVZ1**
Mag 1				
Tractor Hydraulic Fluid	1 gal.	—	133	**43Y919**
AW ISO 32 Hydraulic Oil	5 gal.	32	108	**43Y921**
AW ISO 46 Hydraulic Oil	5 gal.	46	105	**43Y923**
AW ISO 46 Hydraulic Oil	55 gal.	46	105	**43Y922**
AW ISO 68 Hydraulic Oil	5 gal.	68	103	**43Y925**

Description	Size	ISO Viscosity Grade	Viscosity Index	Item No.
Mystik				
ISO 150 Rock Drill Oil	5 gal.	150	108	**33MF08**
Mystik® PL Turbine Drip Oil Turbine Drip Oil	2 gal.	32	86	**33MF07**
Renewable Lubricants				
Bio-SynXtra Hydrostatic™ Tractor Hydraulic Fluid	1 gal.	32	213	**4JPU1**
Bio-SynXtra Hydrostatic™ Tractor Hydraulic Fluid	5 gal.	32	213	**4JPU2**
Bio-SynXtra™ Tractor Hydraulic Fluid	1 gal.	46	210	**4JPT8**
Snowplow Aftermarket Manufacturing				
S.A.M. Snowplow Hydraulic Fluid	1 qt.	—	—	**6AHY2**
S.A.M. Snowplow Hydraulic Fluid	1 qt.	—	—	**6AHY3**
Sta-Lube				
Sta-Lube® Equa-Torque Differential Friction Modifier	4 oz.	—	—	**1YHP2**
Valvoline				
Tractor Hydraulic Fluid	1 gal.	—	140	**12W340**
AW 46 Hydraulic Oil	55 gal.	46	106	**12W326**
Unitrac Tractor Hydraulic Fluid	5 gal.	—	141	**12W346**

Vehicle Grease

Greases are formulated for general purpose, extreme pressure, high-temperature, multipurpose, and other application and performance characteristics.


No. 49EP39


No. 5ZN13


No. 4ZF44


No. 33MF13


No. 43Y912


No. 4NPL9


No. 44A073

Description	NLGI Grade	Color	Size	Container Type	Item No.	Pkg. Qty.
Citgo						
Lithoplex® RT Multipurpose Grease	2	Red	14 oz.	Tube	**33ME75**	1
Lithoplex® RT Multipurpose Grease	2	Red	120 lb.	Drum	**33ME74**	1
CRC						
STA Lube New Generation™ Wheel Bearing Grease	2	Amber	14 oz.	Can	**12L821**	1
Lucas						
Grease	2	Bright Red	14 oz.	Tube	**49EP39**	1
Heavy Duty Grease	2	Green	14.5 oz.	Tube	**49EP49**	1
Mag 1						
Extreme Pressure Moly Grease	2	Gray	14 oz.	Tube	**43Y916**	1
Marine Grease	2	Blue	14 oz.	Tube	**49EP07**	1
Multipurpose Grease	2	Amber	14 oz.	Tube	**43Y915**	1
Wheel Bearing Grease	2	Red	14 oz.	Tube	**43Y913**	1
Wheel Bearing Grease	2	Red	1 lb.	Can	**43Y912**	1
Mobil						
Delvac™ Xtreme Delvac Extreme Service Grease	2	Orange	13.7 oz.	Cartridge	**5ZN13**	1
Mobilgrease® XHP 222 Multipurpose Auto Grease	2	Gray	13.7 oz.	Cartridge	**4ZF44**	1
Mobilith SHC 007 Wheel Hub Grease	00	Red	35.2 lb.	Pail	**1TLG8**	1
Mobil 1						
Mobil 1® Bearing Grease	—	Red	13.4 oz.	Cartridge	**6Y777**	1
Mystik						
JT-6® High Temperature Grease	2	Gray/Black	14 oz.	Tube	**33MF19**	1
JT-6® High Temperature Grease	2	Red	3 oz.	Tube	**33MF14**	3
JT-6® High Temperature Grease	2	Red	14 oz.	Tube	**33MF13**	1
JT-6® High Temperature Grease	2	Red	35 lb.	Can	**33MF11**	1
Plews-Lubrimatic						
White Lithium Grease	2	Ivory	3 oz.	Cartridge	**1TBB1**	4
White Lithium Grease	2	Ivory	14 oz.	Cartridge	**1TBB2**	1
UltraLube						
UltraLube Moly EP Grease	2	Silver	14 oz.	Cartridge	**6ZKW4**	1
UltraLube Multipurpose Grease	2	Amber	14 oz.	Cartridge	**6ZKV8**	1
UltraLube Wheel Bearing Grease	2	Blue	16 oz.	Can	**6ZKX0**	1
Valvoline						
Extreme Pressure Grease	2	Dark Amber	14.1 oz.	Cartridge	**4NPL7**	1
Extreme Pressure Grease	2	Dark Amber	1 lb.	Tub	**4NPL6**	1
Grease	2	Red	14.1 oz.	Cartridge	**4NPL9**	1
Multipurpose Grease	2	Red	35 lb.	Drum	**44A074**	1
Multipurpose Grease	2	Red	120 lb.	Drum	**44A073**	1
Multipurpose Grease	2	Red	400 lb.	Drum	**44A072**	1
Multipurpose Grease	2	Dark Amber	35 lb.	Pail	**44A090**	1
Multipurpose Grease	2	Dark Amber	120 lb.	Keg	**44A089**	1
Multipurpose Grease	2	Red	1 lb.	Tub	**4NPL8**	1
Multipurpose Grease	2	Gray/Black	1 lb.	Tub	**4NPN1**	1
Tacky Grease	2	Black	14.1 oz.	Cartridge	**4NPU6**	1
Cerulean® Grease	2	Blue	35 lb.	Pail	**44A077**	1
Cerulean® Grease	2	Blue	120 lb.	Keg	**44A076**	1
Cerulean® Tacky Grease	2	Blue	14.1 oz.	Cartridge	**4NPU5**	1
DuraBlend™ Extreme Pressure Grease	2	Gray	14.1 oz.	Cartridge	**4NPL5**	1
SynPower™ Grease	2	Dark Gray	14.1 oz.	Cartridge	**4NPN4**	1
SynPower™ Synthetic Grease	2	Dark Gray/ Buttery	1 lb.	Tub	**4NPN3**	1

Brake Caliper Grease

Brake lubricants help avoid squealing or screeching while reducing wear and tear. Consult your owners manual for specific recommendations for a given vehicle.


No. 5EVZ9


No. 1YHP3


No. 44N734

Container Type	Temp. Range	Timken OK Load	Color	Size	Item No.
CRC					
Bottle	-30 to 600°F	50 lb.	Dark Gray	8 oz.	**1YHR2**
Tub	-30 to 600°F	50 lb.	Dark Gray	12 oz.	**5EVZ9**
Can	0° to 325°F	60 lb.	Dark Gray	14 oz.	**1YHP8**
Aerosol Can	—	Not Specified	Red	12 oz.	**1YHP3**
Aerosol Can	-10° to 1800°F	Not Specified	Gray	16 oz.	**1YHR5**
Super Lube					
Tube	-45° to 500°F	25 lb.	White	8 oz.	**44N734**

Brake Fluids

Consult the owners manual for specific recommendations for a given vehicle.


No. 4NPR4

Brand	Size	Item No.
DOT 3		
Pyroil™	12 oz.	**4NPR4**
Pyroil™	1 qt.	**4NPR5**
Pyroil™	1 gal.	**4NPR3**
DOT 4		
Pyroil™	32 oz.	**4NPR7**
Pyroil™	12 oz.	**4NPR6**
DOT 3		
Mag 1®	12 oz.	**20RW69**

Hydraulic Jack Oils

High-quality fluids help keep hydraulic systems running smoothly and efficiently.


No. 2EXX2


No. 43Y926


No. 33MF06

Size	Item No.
Bar's Leaks	
12.5 oz.	**2EXX2**
Mag 1	
32 oz..	**43Y926**
Mystik	
1 qt.	**33MF06**

Power Steering Fluids

Formulated for best performance and to protect power steering components in specified vehicles.


No. 1PKU1

Brand	Size	Item No.
Most Domestic and Foreign Vehicles		
Valvoline MaxLife™	1 qt.	**1PKU1**
GM, Ford, and Chrysler Vehicles		
Pyroil	12 oz.	**21A068**
	1 qt.	**21A069**
Valvoline	1 qt.	**4NPR1**
	1 gal.	**4NPR2**
Honda and Acura Vehicles		
Pyroil	12 oz.	**21A062**



No. 2AEP6



No. 19MX37



No. 465D32



No. 20RW72



No. 20RW74



No. 2WCF6



No. 49U487



No. 49U494



No. 20RX01

Fuel Additives

Description	Treats up to	Size	Brand	Item No.
Gasoline				
Antifreeze and Water Remover	1 Tank	12 oz.	Heet	**2AEP6**
Fuel Injection and Carb Cleaner	1 Tank	14.5 oz.	CRC	**19MX37**
	21 gal.	6 oz.	Gumout	**465D32**
	21 gal.	12 oz.	Mag 1	**20RW72**
Fuel Injection Cleaner	21 gal.	6 oz.	Gumout	**465D30**
Fuel Injector and Intake Valve Cleaner	21 gal.	12 oz.	Mag 1	**20RW73**
Fuel System Cleaner	21 gal.	16 oz.	Mag 1	**20RW76**
Octane Boost	21 gal.	12 oz.	Mag 1	**20RW74**
Gasoline and E-85				
Fuel Injector and Intake Valve Cleaner	Treats Up to 20 gal.	12 oz.	Valvoline	**2WCF6**
Gasoline and 2-Cycle				
Ethanol Shield™ Ethanol Fuel Stabilizer	1 oz. or per 2.5 gal. Fuel	8 oz.	B3C Fuel Solutions	**49U487**
	1 oz. or per 2.5 gal. Fuel	24 oz.	B3C Fuel Solutions	**49U488**
	1 oz. or per 2.5 gal. Fuel	1 gal.	B3C Fuel Solutions	**49U489**
Mechanic In A Bottle™ Fuel System Cleaner	1 oz. or per 5 gal. Fuel	8 oz.	B3C Fuel Solutions	**49U493**
	1 oz. or per 5 gal. Fuel	24 oz.	B3C Fuel Solutions	**49U494**
	1 oz. or per 5 gal. Fuel	1 gal.	B3C Fuel Solutions	**49U495**
Gasoline, Diesel and 2-Cycle				
Antifreeze and Water Remover	1 Tank	12 oz.	Heet	**2AEP7**
Gasoline and Diesel				
Fuel System Cleaner	2 oz. or more per 1 gal. Fuel	1 gal.	Seafoam	**20RX01**



No. 5TN63


No. 45J377



No. 20RW78


No. 46C507

2-Cycle Oil

Gasoline to Oil Mix Table

Mix Ratios	16:1	24:1	32:1	40:1	50:1
US Gallon	US Ounces of Oil				
1	8.0	5.5	4.0	3.2	2.5
2	16.0	10.5	8.0	6.5	5.0
3	24.0	16.0	12.0	9.5	7.5
4	32.0	21.5	16.0	13.0	10.0
5	40.0	26.5	20.0	16.0	13.0

Brand	Size	Item No.	Pkg. Qty.
Conventional			
Echo	2.6 oz.	**45J377**	6
Husqvarna	2.6 oz.	**52HG07**	1
	6.4 oz.	**52HG08**	1
Mag 1	2.6 oz.	**20RW81**	1
	8 oz.	**20RW80**	1
Sta-Lube	15 oz.	**5TN63**	1
Full Synthetic			
Mag 1	2.6 oz.	**43Y868**	1
Makita	2.6 oz.	**5JLU1**	1
	6.4 oz.	**5JLU2**	1
Synthetic Blend			
Echo	2.6 oz.	**45J373**	6
	16 oz.	**45J374**	1
Mag 1	15.6 oz.	**20RW78**	1
Oregon	1.8 oz.	**46C507**	1



No. 3KB54



No. 5EVX7



No. 10N792



No. 2AEP4

Fuel Stabilizers

K&W® Stor-X® Gas and Diesel Fuel Stabilizer— Helps keep gasoline, diesel, and aviation fuel fresh for up to 12 mo., and promotes easy start-up after storage. Inhibits formation of varnishes, peroxides, and gums.

Sta-Bil® Fuel Stabilizer —Use with all gasoline blends, including ethanol blends up to E-85, to keep fuel fresh and help ensure easy starts after 1 to 24 mo. in storage.

Description	Size	Item No.
K&W		
Stor-X® Gas and Diesel Fuel Stabilizer	8 oz.	**3KB54**
Sta-Bil		
360°® Marine™	8 oz.	**5EVX7**
	32 oz.	**5EVX8**
360°® Protection™	10 oz.	**10N792**
Fuel Stabilizer	4 oz.	**2AEP2**
	10 oz.	**2AEP3**
	32 oz.	**2AEP5**
	128 oz.	**2AEP4**



No. 46T343

Small Engine Fuel

Nonethanol fuel is formulated to provide easier more-dependable starts. Remains stable and ready to run for up to 2 years once poured into the tank; keeps for up to 5 years in an unopened can. Helps reduce maintenance and extend engine life.

Size	Mfr. Model	Item No.	Pkg. Qty.
2-Cycle Premixed Fuel and Oil (50:1)			
1 qt.	6238	**46T343**	8
1 gal.	62314	**494L03**	4
5 gal.	6232	**46T347**	1
54 gal.	6234	**46T349**	1
4-Cycle Unleaded Fuel			
1 qt.	6208	**46T342**	8
1 gal.	62014	**494L04**	4
5 gal.	6202	**46T346**	1
54 gal.	6204	**46T348**	1



No. 33KL41



No. 5YK76



No. 54YK23



No. 4KK68



No. 21A052



No. 43NT06



No. 35WT63



No. 16W546



No. 36GG84



No. 20RW67



No. 21A073



No. 20RW98



No. 456L13



No. 4LRG3

Brake Parts Cleaner/Degreasers

Formulated to dampen vibrations that can cause brake noise. These cleaner/degreasers quickly remove brake fluid, grease, oil, and other contaminants from brake linings and pads.

Brand	Flammable	Container Type	Container Size	Item No.	Pkg. Qty.
Non Chlorinated					
CRC Brakleen®	Yes	Aerosol Can	20 oz.	**13P447**	1
	Yes	Pail	5 gal.	**20KY55**	1
	Yes	Drum	55 gal.	**3APL5**	1
	Yes	Spray Bottle	1 gal.	**33KL41**	1
	Yes	Aerosol Can	20 oz.	**19MX51**	1
CRC Brakleen® 50 State Formula	Yes	Aerosol Can	20 oz.	**4DKZ6**	1
	Yes	Pail	5 gal.	**32HF18**	1
	Yes	Drum	55 gal.	**5UWE6**	1
CRC Brakleen® Low VOC	Yes	Aerosol Can	20 oz.	**5YK76**	1
	Yes	Pail	5 gal.	**32HF19**	1
Gunk	Yes	Aerosol Can	14 oz.	**54YK24**	1
Gunk 33 State Formula	Yes	Aerosol Can	14 oz.	**54YK21**	1
Gunk 45 State Formula	Yes	Aerosol Can	14 oz.	**54YK22**	1
Gunk 50 State Formula	Yes	Aerosol Can	14 oz.	**54YK23**	1
LPS TriFree	Yes	Aerosol Can	20 oz.	**4KK68**	1
LPS U-10, 50 State Formula	Yes	Aerosol Can	20 oz.	**3RWT7**	1
Pyroil	Yes	Aerosol Can	22.60 oz.	**1PKT6**	1
	Yes	Aerosol Can	22.60 oz.	**21A052**	1
	Yes	Aerosol Can	13 oz.	**21A051**	1
	Yes	Aerosol Can	22.60 oz.	**45VH12**	1
	Yes	Aerosol Can	22.60 oz.	**45VH11**	1
Pyroil 50 State Formula	Yes	Aerosol Can	22.60 oz.	**4LWE5**	1
Pyroil Low VOC	Yes	Aerosol Can	22.60 oz.	**21A063**	1
Zep	Yes	Aerosol Can	20 oz.	**43NT06**	12
	Yes	Canister	1 gal.	**43NT13**	4
	Yes	Drum	20 gal.	**43NT14**	1
Zep Brake Flush	Yes	Bucket	5 gal.	**43NT16**	1
	Yes	Aerosol Can	14 oz.	**449V24**	12
	Yes	Drum	55 gal.	**449V25**	1
Zep Brake Wash	Yes	Drum	20 gal.	**449V27**	1
Chlorinated					
CRC Brakleen®	No	Aerosol Can	19 oz.	**5YK77**	1
	No	Pail	5 gal.	**32HF20**	1
	No	Drum	55 gal.	**32HF21**	1
	No	Aerosol Can	20 oz.	**35WT63**	1
	No	Jug	1 gal.	**35WT64**	1
Gunk 48 State Formula	No	Aerosol Can	19 oz.	**54YK25**	1

Corrosion Protection and Lubrication

Create a nondrying protection barrier that moisture and corrosion cannot penetrate. Formula contains no solvents and will not evaporate or remain tacky. Designed to remain active for long-term protection that resists water wash off.

Container Type	Container Size	Item No.
Aerosol Can	2.25 oz.	**10N784**
Aerosol Can	11.75 oz.	**10N783**
Brush-Top Can	8 oz.	**10N785**
Can	1 gal.	**10N786**
Pail	5 gal.	**10N787**
Drum	55 gal.	**10N788**



No. 10N784



No. 10N785

Lubricants, Penetrants, and Corrosion Inhibitors

Nondrying, anticorrosive coatings protect metal from moisture, salt air, and saltwater; preventing further corrosion. Helps create a moisture barrier that provides long-lasting lubrication for moving parts.

Description	Container Size	Mfr. Model	Item No.	Pkg. Qty.
Blaster				
High-Performance White Lithium Multipurpose Grease	11 oz.	16-LG	**16W545**	1
Industrial Strength Silicone General Purpose Lubricant	16 oz.	16-SL	**16W546**	1
Original PB B'laster Penetrating Lubricant	11 oz.	16-PB	**4LRF8**	1
Pro-Grade General Purpose Lubricant	6 oz.	PB-50-TS	**48GG07**	1
Pro-Grade General Purpose Lubricant	1 gal.	PB-50	**4LRG3**	1
CRC				
Heavy Duty Silicone General Purpose Lubricant	12 oz.	05074	**19MX42**	1
Industrial Silicone General Purpose Dry Lubricant	16 oz.	03032	**36GG84**	1
Water Based Silicone General Purpose Lubricant	16 oz.	03035	**4YPJ3**	1
Mag 1				
Silicone Lubricant	10.5 oz.	MAG00440	**20RW67**	1
Pyroil				
Penetrant	11 oz.	596555	**21A050**	1
General Purpose Lubricant	12 oz.	PYSLS10	**21A073**	1
Seafoam				
Penetrant	12 oz.	SF00DC14	**20RW98**	1
Zep				
2000 General Purpose Lubricant	13 oz.	416401	**43NR69**	12
45 General Purpose Lubricant	17 oz.	17401	**449V06**	12
45 Dual Force General Purpose Lubricant	14 oz.	374301	**43NR68**	12
45 Dual Force PP General Purpose Lubricant	14 oz.	325101	**449V37**	12
45 Sidewinder Penetrating Lubricant	20 oz.	B41801	**456L13**	12
70 General Purpose Lubricant	15 oz.	3001	**449V09**	12
Master Mechanic NC Penetrating Lubricant	15 oz.	915701	**456L12**	12
ML General Purpose Lubricant	16 oz.	731301	**449V65**	12
Super Penetrating Lubricant	20 oz.	25001	**456L17**	12

Electronic Parts, Sensors, and Contact Cleaners

Nondrip, fast-drying cleaners help dissolve grease and dirt and restore electronics and sensors performance.



No. 1YHN3



No. 54YK42

Item	Container Size	Mfr. Model	Item No.
CRC			
Precision Cleaner	13 oz	03200	**32UN52**
Electronic Cleaner	16 oz	05110	**1YHN8**
Lectra-Motive® Electronic Parts Cleaner	20 oz	05018	**1YHN3**
Zep			
ZEP SUPER ECC Contact Cleaner	10 oz	352401	**451F05**
ZEP DYNAMO Contact Cleaner	14 oz	35001	**449V41**
ZEP ZEPELEC II PLUS Contact Cleaner	16 oz	28301	**449V99**
Gunk			
Electronic Contact Cleaner	6 oz	NM6	**54YK43**
Electronic Contact Cleaner	11 oz	PD11CC	**54YK44**
Electronic Contact Cleaner	20 oz	NM1	**54YK42**



No. 449V41



No. 40Z938



No. 49XW75



No. 2EXW6



No. 49XW62



No. 3HAH8



No. 453D20



No. 44X063

SPLASH SEE SAFELY. | Prestone | GUNK | Zep PROFESSIONAL | Clear Vision | 303

Windshield Washer Fluids

Clean road film, grime, and bugs from windshield. De-Icer additive in select products helps defrost and also helps prevent washer freezeup.

Item	Freezing Point (°F)	Color	Brand	1 gal. Item No.	55 gal. Item No.
Pre-Mixed Ready to Use					
All Season					
Windshield Washer	0	Blue	Splash	**3HAH7**	**3YNC3**
	-20	Blue	Splash	**2EXW5**	**3YNC4**
Windshield Washer/De-Bug/ De-Icer/Water Repellent	-25	Purple	Splash	**40Z938**	—
	-28°	Clear Green	Prestone	—	**49XW66**
	-28°	Clear Yellow	Prestone	**49XW75**	—
Windshield Washer/De-Icer	-30	Red	Splash	**2EXW6**	—
	-27°	Yellow	Prestone	**49XW62**	**49XW65**
Windshield Washer/Water Repellent	-26	Orange	Splash	**49GU93**	—
Summer Blend					
Windshield Washer	22	Blue	Splash	**2EXW8**	**3YNC2**
	32	Blue	Splash	**2EXW7**	**3YNC1**
Windshield Washer/De-Bug	32°	Green	Prestone	**49XW63**	**49XW67**
Windshield Washer/De-Bug/Rain Repellent	32	Green	Splash	**3HAH8**	—

Item	Freezing Point (°F)	Dilution Ratio	Color	Size	Brand	Item No.
Additive/Concentrate						
All Season						
Windshield Washer	-144	1:10 to 2:128	Blue	16 oz.	Splash	**40Z941**
Windshield Washer	-144	1:10 to 2:128	Blue	55 gal.	Splash	**40Z942**
Windshield Washer	-144°	1:6	Dark Blue	16 oz.	Gunk	**54YK28**
Windshield Washer	-144°	1:6	Dark Blue	5 gal.	Gunk	**54YK29**
Windshield Washer	5°F	1:3 to 1:5	Clear Blue	1 qt.	Zep	**453D20**
Windshield Washer	5°F	1:3 to 1:5	Clear Blue	20 gal.	Zep	**453D21**
Windshield Washer	5°F	1:3 to 1:5	Clear Blue	1 gal.	Zep	**453D22**
Summer Blend						
Windshield Washer	32	1:32	Blue	5 gal.	Clear Vision	**44X063**
Windshield Washer	32	1:32	Blue	55 gal.	Clear Vision	**44X064**
Windshield Washer	32 F	1 Tablet:1 Gal.	Blue	1 Tablet	303	**2RPZ3**
Windshield Washer	—	1:32	Blue	6 oz.	Gunk	**54YK27**
Windshield Washer/De-Bug	32	1:32	Blue	4 oz.	Clear Vision	**44X062**



No. 5VE68



No. 49XW69



No. 49XW73



No. 21A058

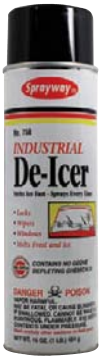
CRC | Prestone | Pyroil | SPLASH SEE SAFELY. | Sprayway | Zep PROFESSIONAL | SUBZERO SNOW AND ICE TOOLS

Multiuse De-Icers

Spray-on products melt ice, snow, and frost from windshields, locks, head- and taillights, and other surfaces.



No. 40Z940



No. 45C019



No. 449V62



No. 1EZH2

Brand	Container Type	Size	Freezing Point (°F)	Item No.
Windshield De-Icer				
CRC	Aerosol Can	16 oz.	-144	**5VE68**
Prestone	Aerosol Can	11 oz.	-58°	**49XW69**
Prestone	Aerosol Can	17 oz.	-50°	**49XW72**
Prestone	Aerosol Can	17 oz.	-58°	**49XW71**
Prestone	Spray Bottle	32 oz.	-50°	**49XW73**
Prestone	Spray Bottle	32 oz.	-58°	**49XW77**
Pyroil	Aerosol Can	11.5 oz.	—	**21A058**
Splash	Spray Bottle	32 oz.	-144	**40Z940**
Sprayway	Aerosol Can	20 oz.	—	**45C019**
Zep	Aerosol Can	20 oz.	—	**449V62**
Lock Dry Lubricant				
CRC	Aerosol Can	1.5 oz.	—	**48TA27**
Lock De-Icer and Lubricant				
Subzero	Aerosol Can	0.625 oz.	-127	**1EZH2**

SPLASH SEE SAFELY.™

RV/Marine Antifreeze

Convenient, ready-to-use product is made with renewable resources and safe for incidental contact with people, pets, and wildlife. Nontoxic to aquatic life.

Freezing Point (°F)	Color	Size: 1 gal. Item No.	Size: 55 gal. Item No.
Blended RV/Marine Antifreeze			
-50	Pink	49GU89	49GU90
Premium RV/Marine Antifreeze			
-50	Pink	2EXW9	—
-50	Clear	—	49GU91
-100	Purple	49GU92	40Z943

No. 2EXW9



Antifreeze/Coolants

PEAK

Note: Consult the vehicle manufacturer's specified coolant recommendation.

Peak® Green—Universal formula for older automotive and light-duty diesel applications offers protection against rust and corrosion. Compatible with all conventional (green) antifreeze.
- IAT formula

Full Force®—Proprietary universal low-silicate formula for automobiles and heavy-duty diesel engines helps protect cooling system metals, including aluminum, against rust and corrosion.
- IAT formula

Long Life®—Extended-life coolant technology is designed for use in all automobiles and light-duty trucks, regardless of original antifreeze color, make, model, or year. Phosphate- and silicate-free formula meets respective European and Japanese standards. Offers up to 150,000 mi./5 yr. protection when a complete cooling system flush and fill is performed.
- OAT formula

Global® LifeTime®—Formulated to help protect a vehicle through its entire service life when complete cooling system flush and fill and specified maintenance are performed. Proprietary inhibitors provide maximum rust and corrosion protection in all automobiles and light trucks regardless of make, model, year, or original antifreeze color.
- OAT formula

FINAL CHARGE® Global Extended Life—Globally formulated coolant offers protection for all heavy-duty diesel, gasoline, and natural gas engine cooling systems—without SCAs (supplemental coolant additives). Long-term elastomer compatibility can extend service intervals. Offers protection up to 1 million mi./8 yr./20,000 hr. on-road, off-highway use.
- OAT formula

Note: Cannot mix with FINAL CHARGE® NOAT Extended Life formula.

FINAL CHARGE® NOAT Extended Life—Advanced nitrated global formula helps protect cooling systems in heavy-duty diesel, gasoline, and natural gas engines. Eliminates the need for chemically charged filters and SCAs, and can extend service intervals. Offers protection up to 750,000 mi. on-road, 8 yr./15,000 hr. off-road.
- NOAT formula

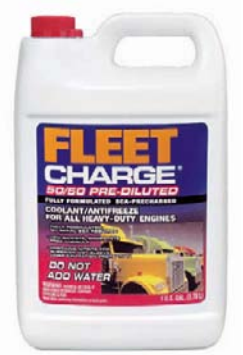
Note: Cannot mix with FINAL CHARGE® Global Extended Life formula.

Fleet Charge® SCA Precharged—Antifreeze/coolant for heavy-duty diesel, gasoline, and natural gas engines helps protect all cooling system metals and components against corrosion. Formulated with advanced technology supplemental coolant additives to protect for the life of the engine when maintained with a high-quality SCA filter system.
- SCA formula

Note: Cannot be mixed with any other type of coolant.



No. 48ZE68



No. 48ZE76

Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Conventional Green			
1 gal.	Green	48ZE68	48ZE66
55 gal.	Green	—	48ZE67
Full Force®			
55 gal.	Green	48ZE73	—
Long Life®			
1 gal.	Yellow	48ZE64	—
Global® LifeTime®			
1 gal.	Amber	48ZE71	48ZE69
55 gal.	Amber	48ZE72	48ZE70
FINAL CHARGE® Global Extended Life			
1 gal.	Red	48ZE80	48ZE78
FINAL CHARGE®			
55 gal.	Red	48ZE81	—
FINAL CHARGE® Global Extended Life			
55 gal.	Red	—	48ZE79
FINAL CHARGE® NOAT Extended Life			
1 gal.	Red	48ZE84	48ZE82
55 gal.	Red	48ZE85	48ZE83
Fleet Charge® SCA Precharged			
1 gal.	Pink	48ZE76	48ZE74
55 gal.	Pink	48ZE77	48ZE75

POLAR

Polar® Antifreeze/Coolants

- IAT Classic Green
- OAT Long Life

Classic Green glycol-based formula protects all metals, including aluminum, in gasoline and diesel engines.

Long Life formula is engineered for use after a complete cooling system flush and fill, to extend fluid life for up to 5 yr./150,000 mi. protection. Meets GM6277M (GM DEX-COOL®) requirements.

Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Classic Green			
1 gal.	Green	43Y929	43Y927
Long Life			
1 gal.	Yellow	20RW90	20RW89



No. 43Y929

ZEREX ALUMASEAL BAR'S LEAKS

Cooling System Cleaners, Protectant and Sealers

Cleaners and Protectant—Flushes and cleaning agents help remove rust, scale buildup, and deposits. Antirust and protector are formulated to protect all cooling system metals from corrosion.

Sealants—Formulated to stop cooling system leaks quickly and without blocking or corroding the cooling system. Compatible with all antifreeze and coolants.



No. 4NPP4



No. 36D350

Item	Size	Mfr. Model	Item No.
Cooling System Cleaners and Protectant			
Zerex			
Radiator Cleaner	32 oz.	ZXC02	4NPP4
Radiator Protector	14.5 oz.	ZXC04	4NPP6
Cooling System Sealants			
Alumaseal			
Radiator Sealer Powder	.71 oz.	ASBPI12	2AEP8
Radiator Sealer Liquid	16 oz.	ASLC16	2AEP9

Item	Size	Mfr. Model	Item No.
Bar's Leaks			
Radiator Stop Leak	11 oz.	1196	36D347
Radiator Stop Leak	16.9 oz.	1186	36D350
Cooling System Repair	16.9 oz.	1150	36D351
Head Gasket Repair	—	1100	2EXX4
Zerex			
Radiator Sealer	14.5 oz.	ZXC03	4NPP5

No. 48RD29



No. 48RD31



Prestone

Antifreeze/Coolants

Note: Consult the vehicle manufacturer's specified coolant recommendation.

Prime®—Low-silicate conventional product helps prevent rust and corrosion on all cooling system metals, including aluminum. Designed for use in cars and light- and heavy-duty trucks and equipment.
- IAT formula

Cor-Guard™—Proprietary extended-life technology is designed for improved corrosion protection and to help cooling system efficiency. Offers up to 150,000 mi./5 yr. protection when flushed and filled as directed.
- OAT formula

DEX-COOL® Extended Life—Long-lasting inhibitors help protect against rust, corrosion, and temperature extremes. For use in cars and light-duty trucks with aluminum radiators using extended-life coolant (ELC), including those that require DEX-COOL.
- OAT formula

Command® Heavy-Duty Nitrite-Free Extended Life—Long-lasting, premium inhibitors provide up to 600,000 mi./12,000 hr. protection against temperature extremes, rust, corrosion, scale, and premature water pump failure. Intended for use with any OAT formula, heavy-duty ELC in diesel-powered commercial vehicle engines or stationary engines.
- OAT formula

Command Heavy-Duty Extended Life—Intended for use with any NOAT (nitrited organic acid technology) formula, heavy-duty ELC in diesel-powered commercial vehicle engines or stationary engines, with aluminum and other engine metals. Offers protection in demanding conditions for a service life up to 600,000 mi. or 12,000 hr., when an extender is added at 300,000 mi./6000 hr. (Mfr. model HD300 extender sold separately.)
- NOAT formula

Command Heavy-Duty Extended Service Interval SCA Precharged—Designed to help protect heavy-duty engines and cooling systems in normal to severe duty cycles and extreme hot or cold temperatures, and to eliminate the initial SCA (supplemental coolant additive) precharge on new vehicles and recharged systems. Compatible with conventional heavy-duty coolants and all filter technologies.
- SCA formula

Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Prime®			
1 gal.	Green	**48RD27**	**48RD28**
Cor-Guard™			
1 gal.	Yellow	**48RD29**	**48RD30**
DEX-COOL® Extended Life			
1 gal.	Orange	**48RD31**	—
Command® Heavy Duty Nitrite Free Extended Life			
1 gal.	Yellow	**48RD36**	**48RD38**
55 gal.	Yellow	**48RD37**	—
Command® Heavy Duty Extended Life			
1 gal.	Red	**48RD33**	**48RD35**
55 gal.	Red	**48RD34**	—
Command® Heavy Duty Extended Service Interval			
1 gal.	Purple	**48RD32**	—

No. 2WCF8



No. 1UCC3



ZEREX

Antifreeze/Coolants

Note: Consult the vehicle manufacturer's specified coolant recommendation.

Original—Traditional universal ethylene glycol-based formula is compatible with major American coolant brands.
- IAT formula
- 150,000 mi./3000 hr./5 yr.

HD Pre-Charged—Offers protection against liner pitting and hard-water scale deposits in heavy-duty diesel engines. Proprietary inhibitor chemistry helps protect all cooling system metals, including aluminum, against corrosion. Universal coolant can also be used in gasoline engines and light-duty vehicles. Compatible with major American ethylene glycol-based coolant brands.
- IAT formula
- 150,000 mi./3000 hr./3 yr.

MaxLife™ High Mileage—Universal antifreeze/coolant for automobiles and light-duty trucks over 75,000 mi. Maintains a stable temperature in all climates and driving conditions, to help extend vehicle life. The fluid helps protect against cold weather freeze-ups and hot weather boil-overs, and lubricates and protects gaskets and seals.
- IAT formula
- 150,000 mi./3000 hr./3 yr.

Extended Life HD—Proprietary heavy-duty formula is meant to protect diesel engines from liner pitting and hard-water scale deposits. At max. service life, add Extended Life Extender No. 4NPP7 to stretch drain interval to 600,000 mi./14,000 hr./6 yr.
- OAT formula
- 300,000 mi./7000 hr./3 yr.

DEX-COOL®—Silicate- and phosphate-free formula is automaker-approved for use in GM and SAAB vehicles that require OAT DEX-COOL, and in GM and SAAB vehicles.
- OAT formula
- 150,000 mi./5 yr.

G-05®—Low-silicate, low-pH, phosphate-free formula is designed to minimize inhibitor depletion and protect all cooling system metals, including aluminum, against rust and corrosion in gasoline- and diesel-fueled cars, light trucks, and heavy-duty vehicles. Meets European standards; approved by Daimler Chrysler for worldwide applications.
- HOAT formula
- Light duty: 150,000 mi./5 yr.
- Heavy duty: 300,000 mi./3 yr.

Asian Vehicles—Silicate-free, phosphated chemistry is designed to meet Asian manufacturers' requirements to protect cooling systems against freeze-ups, boil-overs, and rust and corrosion.
- HOAT formula
- 150,000 mi./5 yr.

Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Original			
½ gal.	Green	**1UCC2**	—
1 gal.	Green	**2WCF8**	**1UCC1**
55 gal.	Green	**2MWE7**	**2MWE6**
HD Pre-Charged			
1 gal.	Green	**1UCC4**	—
MaxLife™ High-Mileage			
1 gal.	Yellow	**6EMX7**	**6EMX8**
Extended Life HD			
32 oz.	Red	**4NPP7**	—
1 gal.	Red	**1UCC5**	**4NPP1**
DEX-COOL®			
1 gal.	Orange	**1PKU5**	**1UCC3**
55 gal.	Orange	**2MWE9**	**2MWE8**
G-05®			
1 gal.	Yellow	**1PKU6**	**4NPN9**
55 gal.	Yellow	**2MWF2**	**2MWF1**
Asian Vehicle			
1 gal.	Pink	**6MGK1**	—

Automotive Gasket Sealants

Item	Temp. Range	Color	Size	Brand	Item No.	Pkg. Qty.
Valve Covers, Oil and Transmission Pans, Intake Manifolds, Water Pumps, Timing Chain Covers, Thermostat Housings						
Permanent Metallic™ Copper-Coat® Gasket Compound	-80 to 400°F	Copper	12	K&W	**5EVZ4**	1
UltraPro Gasket Sealant	-20 to 600°F	Black	3 oz.	3M	**2CTF1**	1
RTV Silicone Gasket Maker	Resistant Up To 625°F	Black	3 oz.	Dynatex	**6CGP9**	6
RTV Silicone Sealant	-75° to 550°F	Red	8 oz.	Imperial Supplies	**40JM26**	6
	-75° to 500°F	Black	8 oz.	Imperial Supplies	**40JM25**	6
	-60° to 450°F	Blue	8 oz.	Imperial Supplies	**40JM28**	6
Ultra Black® RTV Silicone Sealant	-65 to 400°F	Black	3.35 oz.	Permatex	**2GXZ4**	1
Seal Windows, Doors and Seams, Insulate Electrical Connections						
RTV Silicone Sealant	-60° to 450°F	Clear	8 oz.	Imperial Supplies	**40JM27**	6



No. 5EVZ4


No. 2CTF1



No. 6CGP9



No. 40JM25



No. 2GXZ4

Automotive Maintenance and Repair Supplies

Brush-On Electrical Tape—Seals out moisture around hard-to-tape electrical connections. Use anywhere a dependable waterproof connection is required. Ideal for repairing and bonding applications.

Ultra-Seal Corrosion Preventive Sealant—Forms a nonconductive barrier that helps keep moisture and grit out of electrical connections and termination points, supporting electrical system integrity and performance.

High-Temperature Metal Repair—QuikSteel fills cracks, holes, and pits, and withstands direct flame.

Metal Tank Repair Kits—Use on gas or diesel fuel tanks, oil pans, transmission housings, radiators, reservoirs, and portable tanks. Includes 2 oz. cement, saddle soap, alcohol swab pad, screen, and sandpaper. No need to drain tank.

Exhaust System Repair—Cold weld steel resists high temperatures. Repair exhaust manifolds, catalytic converters, crossover pipes, mufflers, and tailpipes. Includes 2 oz. cement, screen, and sandpaper.

Muffler and Tailpipe Sealant—3M™ Dynetex® is a single-component, nonslumping sealant that repairs holes and leaks in mufflers, tailpipes, and around joints.

Pipe Sealant with PTFE—Helps stop leaks on threaded metal pipe fittings and hydraulic fittings.

QuikSteel™ Epoxy Putty—Bonds to metal, plastics, glass, fiberglass, wood, brick, and ceramics. Withstands temperature up to 500°F.

Security Seal—This antisabotage marker can be applied to recently serviced joints and bolts.



No. 1MPY2



No. 1MPX4

Description	Color	Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
Brush-On Electrical Tape	Red	4 oz.	Blue Magic	BOT58TRI	**1MPY2**	1
	White	4 oz.	Blue Magic	BOT59TRI	**1MPY3**	1
NYK-77 Corrision Protective Compound	Amber	2 oz.	Truck Lite	97944	**19LY84**	1
	Amber	8 oz.	Truck Lite	97940	**19LY85**	1
Ultra-Seal Corrosion Preventive Sealant	Yellowish Brown	4 oz.	Grote	99170	**2VRA5**	1
High Temperature Metal Repair	Dark Gray	3 oz.	Blue Magic	18003TRI	**1MPX3**	1
	Dark Gray	24 oz.	Blue Magic	8024	**1MPX4**	1
Tank Repair Kit	Dark Gray	2 oz.	Blue Magic	6022KTRI	**1MPV8**	1
	White	2 oz.	Blue Magic	6522KTRI	**1MPV9**	1
Exhaust System Repair Kit	Dark Gray	2 oz.	Blue Magic	18022KTRI	**1MPW1**	1
Muffler and Tailpipe Sealant	Red	4.5 oz.	3M	49411	**6CGP4**	6
Pipe Sealant with PTFE	White	35mL	Imperial	40JM41	**40JM41**	4
QuikSteel™ Steel Reinforced Epoxy Putty	Gray	(3) 1 oz. Single Use	Blue Magic	16001-6	**5EVY7**	1
	Gray	2 oz.	Blue Magic	16002TRI	**2TRJ2**	1
QuikSteel™ Plastic Repair Epoxy Putty	White	2 oz.	Blue Magic	16502TRI	**2TRJ3**	1
Security Seal	Blue	1 oz.	Steelman	JSP10118	**20C924**	10

Autobody Sealers, Adhesives, and Fillers

Seam Sealers—Synthetic rubber base is designed to seal interior and exterior joints and seams. Sealer adhesion can be primed and painted on metal, glass, and aluminum.

Super Silicone—One-component paste cures to a tough, rubbery solid and is used for for sealing automotive trim, drip rails, and vinyl roof top fabrics.

All-Around Autobody Sealant—Easy-to-apply water-based seam sealer is designed for sealing interior and exterior autobody joints and seams.

Super Weatherstrip and Gasket Adhesive—This strong, flexible, rubbery adhesive is used to bond weatherstripping and for holding paper, cork, or rubber gaskets in place during installation.

General Trim Adhesive—Bonds automotive materials such as carpeting, vinyl, fabrics, and plastics to metal and other hard, impervious surfaces.

Super Trim Adhesive—High-strength and high-heat-resistant contact adhesive for vinyl tops, heavyweight liners, and hood silencer pads.

Spray Trim Adhesive—Attaches to items such as upholstery cloth and trunk liners to metal and other surfaces.

Plastic and Emblem Adhesive—This strong, quick-drying adhesive is good for bonding plastic or metal emblems, interior rigid plastic, tail light lenses, vinyl side moldings, and upholstery.

Rear View Mirror Adhesive—Two-part structural acrylic system permanently bonds rearview mirror bracket to windshield glass.

2-Part Repair Adhesive—No. 2KVD1 is a strong, epoxy that bonds within minutes of application. Used to join parts made of plastic, metal, glass, fiberglass, and wood. No. 2KVB5 adhesive is a semirigid urethane with fast-acting gel and cure time, making this excellent for wide gap filling capabilities. Used for rebuilding tabs and fixing broken eyelets.

Panel Bonding Adhesive—Two-part epoxy is used to bond steel, aluminum, SMC (Sheet Molded Compound), and FRP (traditional fiberglass) door skins, roof skins, quarter panels, and box sides.


No. 2KUU7


No. 2KVC3



No. 3RAR3

Description	Size	Color	Mfr. Model	Item No.	Pkg. Qty.
Sealers					
Flexiclear™ Body Seam Sealer	1/10 gal.	—	08405	**2KUU7**	1
Super Silicone Sealant	3 oz.	Clear	08661	**2CTE8**	1
	3 oz.	Black	08662	**2CTE9**	1
	10.3 oz.	Black	08664	**2JFG6**	12
All-Around Autobody Sealant	10.3 oz.	White	08500	**2JFH1**	12
Adhesives					
Super Weatherstrip and Gasket Adhesive	5 oz.	Yellow	08001	**2KVC3**	1
	5 oz.	Black	08008	**2KVC4**	1
General Trim Adhesive	16.25 oz.	Clear	08088	**2KVC8**	1
Super Trim Adhesive	18 oz.	Yellow	08090	**2KVC9**	1
Spray Trim Adhesive	24 oz.	Clear	08074	**2KVC7**	1
Plastic and Emblem Adhesive	5 oz.	Clear	08061	**5LTL2**	6
Rear View Mirror Adhesive	0.02 oz.	—	08752	**2CTF2**	1
Universal Epoxy Adhesive	1.60 oz.	Clear	08107	**2KVD1**	1
Super Fast Semi-Rigid Adhesive	50 cc	Opaque	04747	**2KVB5**	1
Panel Bonding Adhesive	200mL	Black	08115	**2KVB4**	1
Automix™ SMC/Fiberglass Adhesive-90	400mL	Black	08274	**2KVD7**	1
Fillers					
Dynatron™ Dynalite Body Filler	1 gal.	Gray	494	**3RAR3**	4
Creme Hardener	2.75 oz.	Red	08309	**6KHA9**	1
BONDO Creme Hardener	2.75 oz.	Blue	05766	**2CTR1**	1



No. 6PEP3

RUST-OLEUM INDUSTRIAL BRANDS

Auto Body Surface Preparation

RUST REFORMER

Spray on to convert rusty surfaces into a nonrusting, paintable flat-black surface, and to prevent future rusting, without sanding down to bare metal.

WAX AND TAR REMOVER

Cleans wax buildup, grease, and other residue from automotive surfaces.

Size	Item No.
Rust Converter	
8 oz.	**6PEP3**
Wax and Tar Remover	
13.5 oz.	**4YLF4**
1 qt.	**4YLE5**

RUST-OLEUM INDUSTRIAL BRANDS

Auto Body Primers



No. 4YLA9

- Aerosols spray at any angle

Maximize top coat adhesion, appearance, and protection while reducing the appearance of surface imperfections. VOC and MIR Compliant.

Filler—High-build formula fills in imperfections on metal, wood, and fiberglass surfaces.

Sandable—Provide a rust-inhibitive base for most automotive lacquers and enamels. Can be immediately recoated, top coated, or sanded once dry.

Self-Etching—Etches and primes in a single step to promote maximum top coat smoothness and adhesion.

Engine—Bonds to bare metal, protects against rust, and resists heat up to 500°F

High Heat—Specially formulated for use on automotive engines and other surfaces that reach up to 2000°F.

Rusty Metal—Provides optimal protection on heavily rusted metal surfaces.

Color	Net Weight	Item No.
Auto Body Filler Primer		
Gray	11 oz.	**4YLA9**
Red	11 oz.	**4YLC6**
Auto Body Sandable Primer		
Dark Gray	12 oz.	**1PTF4**
Black	12 oz.	**4YLC2**
Red	12 oz.	**4YLC5**
Self Etching Primer		
Dark Green	12 oz.	**4YLC3**
Engine Primer		
Gray	12 oz.	**4YLC7**
High Heat Primer		
Gray	12 oz.	**4YLC8**
Auto Body Rusty Metal Primer		
Light Gray	12 oz.	**4YLC4**
Rusty Metal Brown	12 oz.	**1PTF5**



No. 4UZF5

zep PROFESSIONAL

Rust Converter

Chemically changes rust and corrosion into a protective, primer-like coating that is ready for painting without further priming.

Item	Size	Item No.
Rust Converter	1 gal.	**4UZF5**
Corrosion Inhibitor	5 gal.	**449W20**



No. 3RAP8



No. 3RAR4

3M

Bondo® Auto Body Repair

Body Filler and Repair Kit—Nonshrinking formula repairs dents, patches rust holes and leaks, and fills in chips. Spreads easily and sands in just 20 min. No. 3RAR1 includes body filler, red cream hardener, self-adhesive metal body patch, and spreader.

Fiberglass Resin with Hardener—Use alone or with fiberglass tape, cloth, or mat to repair fiberglass boats, snowmobiles, jet skis, bathtubs, and showers.

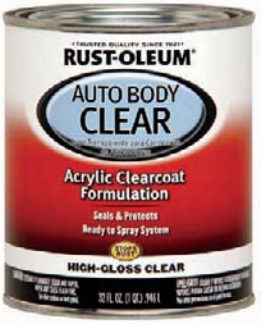
Bondo-Glass®—Repairs dime-size or smaller rusted-out metal holes and shattered fiberglass body parts.

Bondo-Hair® Long-Strand Fiberglass-Reinforced Filler—Recommended for use on up to 1" rust holes, shattered fiberglass and dents where extra strength is required. Ideal for vehicle restoration.

Fiberglass Mat and Fiberglass Cloth—Provide extra reinforcement for large repairs. Can be used with fiberglass resin or two-part adhesive.

Dynatron™ Dynalite Body Filler and Creme Hardeners—No. 3RAR3 is a lightweight, nonsepa-rating body filler that has good featheredge capabilities. Nos. 6KHA9 and 2CTR1 are creme hardener agents that mix easily and quickly and are designed to be used with all 3M™ Body Repair Fillers.

Description	Color	Size	Item No.
Bondo Body Filler With Hardener	Light Gray	1 qt.	**3RAP8**
	Light Gray	1 gal.	**3RAP9**
Bondo Auto Body Filler Kit	Light Gray	1 qt.	**3RAR1**
Fiberglass Resin	Light Straw	1 qt.	**3RAR4**
	Light Straw	1 gal.	**3RAR5**
Bondo-Glass Fiberglass Reinforced Filler	Green	1 qt.	**3RAT1**
Bondo-Hair Fiberglass Reinforced Filler	Green	1 qt.	**3RAT2**
Bondo Fiberglass Cloth	White	8 sq. ft.	**3RAR7**
Bondo Fiberglass Mat	White	8 sq. ft.	**3RAR8**
Dynatron Dynalite Filler	Gray	1 gal.	**3RAR3**
Creme Hardener	Red	2.75 oz.	**6KHA9**
Blue Creme Hardener	Blue	2¾ oz.	**2CTR1**



No. 6PER4

RUST-OLEUM INDUSTRIAL BRANDS

Auto Body Paint System

- 1-qt. containers

Primer—Acrylic lacquer formula provides a tough rust-inhibitive base that can be sanded smooth.

Paint—Can be buffed to a tough, brilliant, road-resistant finish after the clear coat has been applied. Has no recoat window limitations, allowing additional coats to be applied at any time.

Clear Coat—Seals and protects finish and can be buffed to a high-gloss finish. Quick-drying formula has no recoat window limitations, allowing additional coats to be applied at any time.

Color	Mfr. Model	Item No.
Primer		
Gray	253499	**6PER2**
Paint		
Jet Black	253500	**6PEP8**
Clear Coat		
Clear Coat	253522	**6PER4**

RUST-OLEUM INDUSTRIAL BRANDS

Specialty Spray Paint

Automotive—General purpose indoor/outdoor aerosols provide a protective barrier to help prevent rust and corrosion. Can be applied over bare and primed metal surfaces. Use on autos, trailers, RVs, and auto accessories. VOC/MIR Compliant.
- 12 oz. net wt.

Plastic—Renews and restores a variety of indoor and outdoor plastics with no primer needed.

Trim & Bumper—Renews and protects weathered or discolored bumpers and moldings. Closely matches the OEM matte black finish found on the trim, moldings, rearview mirror covers, bumpers, and rub strips of most vehicles. Spray from any angle.

Fabric and Vinyl—Use on vinyl or fabric car seats, dashboards, upholstery, door panels, and similar surfaces. Fast-dry formula contains actual vinyl for maximum flexibility.

Lens Tint—Creates a "black out" look on taillights, side markers, and turn indicators; allows the natural color to show through when the lights are engaged. Recommended for off-road use only. Spray from any angle.

High-Performance Wheel—Stops Rust® weather-resistant formula protects against corrosion; restores original appearance.

Caliper—Designed to customize brake calipers, drums, rotors, and springs on cars and trucks. Cleaner removes contaminants to help prepare surfaces for painting. Paint is formulated to resist the high temperatures and brake dust of harsh braking.
- Resist heat up to 900°F

Color	Finish	Net Weight	Item No.
Automotive			
Black	Semi-Gloss	12 oz.	**1PTE7**
Black	Gloss	12 oz.	**1PTE4**
Black	Flat	12 oz.	**440A55**
Plastic			
Enamel Paints			
Crystal Clear	Gloss	12 oz.	**6KN84**
Black	Gloss	12 oz.	**6PET0**
Trim & Bumper			
Black	Matte	11 oz.	**6PEV1**
Fabric and Vinyl			
Black	Flat	11 oz.	**4YLD6**
Charcoal Gray	Flat	11 oz.	**4YLD9**
Gray	Flat	11 oz.	**4YLD7**
Sand	Flat	11 oz.	**4YLD8**
Black	Gloss	11 oz.	**4YLD5**
Lens Tint			
Translucent Black	Gloss	10 oz.	**6PEU4**
High Performance Wheel			
Black	Flat	11 oz.	**4YLA8**
Clear	Gloss	11 oz.	**4YLA6**
Graphite	Metallic	11 oz.	**4YLA7**
Steel	Metallic	11 oz.	**4YLA5**
Caliper Paint			
Black	Gloss	12 oz.	**6PEU0**
Red	Gloss	12 oz.	**6PET9**



No. 6KN84



No. 6PEV1

Dupli-Color

Engine Enamel Spray Paint

- Resists heat up to 500°F

Has ceramic resins for maximum heat dissipation and gloss retention. Oil- and gas-resistant; will not blister, flake, crack, or peel.

Color	Container Size	Item No.
Aluminum	16 oz.	**2PE11**
Black	16 oz.	**54VL27**
Ford Red	12 oz.	**54VL26**



No. 2PE11

RUST-OLEUM INDUSTRIAL BRANDS

Engine Enamel Spray Paint

Any-angle spray bonds to bare metal to create a flat, protective enamel coating. Stops Rust formula is gas and oil resistant.

Color	Container Size	Item No.
Resists Heat Up To 500° F		
Aluminum	12 oz.	**4YKY7**
Cast Coat Aluminum	12 oz.	**4YKZ4**
Chevy Orange	12 oz.	**4YKY5**
Clear	11 oz.	**4YKY8**
Ford Blue	12 oz.	**4YKY6**
Ford Red	12 oz.	**4YKZ2**
Gloss Black	12 oz.	**4YKY2**
Grabber Green	16 oz.	**4YKZ1**
Low Gloss Black	12 oz.	**4YKY4**
Semi-Gloss Black	12 oz.	**4YKY3**
Resists Heat Up To 2000° F		
Flat Aluminum	12 oz.	**4YLA1**
Flat Black	12 oz.	**4YKZ9**
Flat Red	12 oz.	**4YLA2**



No. 4YKY6



No. 4YLA1

RUST-OLEUM INDUSTRIAL BRANDS · CRC · BLUE MAGIC · TITESEAL

Coatings and Undercoatings

Truck Bed Coatings and Applicator Kit—Provide a durable, nonskid, moisture- and rust-resistant finish that helps protect against impact, scratches, weather damage, fading, salt, and solvents.

Professional Grade Truck Bed Coating—High-output spray tip delivers an even finish that resists fading, chips, and impact. The durable, textured, nonskid finish offers maximum adhesion to stay in place. Paint and primer in one.

Description	Color	Size/ Net Weight	Brand	Mfr. Model	Item No.
Truck Bed Coating	Tan	15 oz.	Rust-Oleum	253438	**6PET7**
	Black	15 oz.	Rust-Oleum	248914	**4YLD1**
	Black	1 qt.	Rust-Oleum	248915	**4YLD2**
	Black	1 gal.	Rust-Oleum	248916	**4YLD3**
Truck Bed Coating Applicator Kit	—	—	Rust-Oleum	248917	**4YLD4**
Professional Grade Truck Bed Coating	Black	15 oz.	Rust-Oleum	272741	**35MW34**
Rubberized Undercoating	Black	16 oz.	CRC	05347	**13P448**
	Black	15 oz.	Rust-Oleum	248657	**4YLC9**
Pure Rubber Coating	Black	15 oz.	Blue Magic	950-06	**1MPU9**
Auto Body Undercoating	Black	16 oz.	Tite-Seal	T1616	**1MPZ2**
Auto Body Rubberized Undercoating	Black	16 oz.	Tite-Seal	T1617R	**39R463**

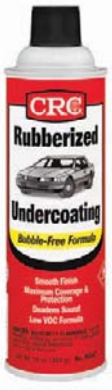
Rubberized Undercoatings—No. 13P448 is designed to form a tough, flexible shield to help protect auto underbodies, weld joints, truck interiors, and motor vehicle firewalls against moisture, salt, and road debris.

No. 4YLC9 applies easily and dries to a soft, rubbery finish to help protect metal surfaces from corrosion and moisture.

Pure Rubber Coating—Multipurpose spray works as a sealer, waterproofer, and sound deadener in applications including roof seal, bed liner, undercoating, and wheel wells. Contains no asphalt, is paintable, and will not bleed.



No. 4YLD3



No. 13P448



No. 2CXX7



No. 19D068



No. 449V84

Vehicle Wash

Professional wash and wax products help protect vehicles from harsh environments and maintain a businesslike appearance.

Description	Size	Item No.	Pkg. Qty.
3M			
Car Wash Soap, Concentrate	1 gal.	**2CTJ1**	1
Car Wash Soap, Concentrate	5 gal.	**2CTJ2**	1
Oil Eater			
OIL EATER Fleet Wash Concentrate	1 gal.	**6TUJ9**	1
OIL EATER Fleet Wash Concentrate	5 gal.	**6TUK0**	1
OIL EATER Fleet Wash Concentrate	30 gal.	**6TUK1**	1
OIL EATER Fleet Wash Concentrate	55 gal.	**6TUK2**	1
Simple Green			
Vehicle Wash	1 gal.	**45NR21**	1
Vehicle Wash	5 gal.	**45NR22**	1
Vehicle Wash	55 gal.	**45NR23**	1
Tough Guy			
Vehicle Wash	5 gal.	**2CXX7**	1
Vehicle Wash	55 gal.	**2CXX8**	1
Turtle Wax			
ICE® Car Wash and Wax	48 oz.	**19D068**	1
M.A.X.-Power Car Wash	100 oz.	**48HN72**	1
Zip Wax® Car Wash and Wax	64 oz.	**1UEP8**	1
Zep			
Big Z™ Prepainted Aluminum Trailer Wash	20 gal.	**453C87**	1

Description	Size	Item No.	Pkg. Qty.
FORMULA 965 Car and Truck Wash Powdered	35 lb.	**453D16**	1
Megawash™ All Climate Car Wash Concentrate	5 gal.	**453D25**	1
Powder Keg™ Truck and Trailer Wash Powdered	40 lb.	**453D33**	1
Split Vehicle Wash™ Truck and Trailer Wash	55 gal.	**453D51**	1
T'N'T™ Truck And Trailer Wash Concentrate	1 gal.	**453D58**	4
T'N'T™ Truck And Trailer Wash Concentrate	5 gal.	**453C97**	1
T'N'T™ Truck And Trailer Wash Concentrate	55 gal.	**449V34**	1
T'N'T™ Truck And Trailer Wash	5 gal.	**449V85**	1
T'N'T™ Truck And Trailer Wash	55 gal.	**449V84**	1
X-2601 Vehicle Wash	55 gal.	**453D62**	1
Zep-O-Shine™ Car Wash and Wax Concentrate	55 gal.	**453D69**	1
Zep Professional			
Vehicle Wash & Wax	5 gal.	**4UZE1**	1
Truck And Trailer Wash Concentrate	1 gal.	**3AAJ3**	1
Truck And Trailer Wash Concentrate	5 gal.	**3AAJ4**	1
Truck And Trailer Wash Concentrate	275 gal.	**6GHZ8**	1
Truck And Trailer Wash Concentrate	275 gal.	**35MA75**	1
Touchless Foaming Car & Truck Detergent	55 gal.	**4UZD9**	1
Foaming Vehicle Shampoo	1 gal.	**3AAJ5**	1
Foaming Vehicle Shampoo	5 gal.	**3AAJ6**	1

Wash Brushes

Flow-thru brushes can be adapted for use with fountain tube, continuous-flow handle, threaded handle, or tapered-tip handle (all sold separately). Handheld brushes are excellent for more-detailed work, such as wheel wells, tires, and spokes.



No. 39R408

No. 39R412

No. 39R409

Item	Overall Length	Bristle Color	Bristle Material	Item No.
Tough Guy				
Bench Brush	10"	Gray	Polyester	**400F96**
Car Wash Brush	10"	Purple	Polypropylene	**2ZPA8**
Car Wash Brush	20"	Blue	Polyvinyl-Chloride	**2ZPA7**
Car Wash Brush	10"	White	Soft Split-Tip	**3A338**
Dip And Wash Brush	8½"	Black, Blue	—	**2ZPC8**
Flow Through Brush	70"	Green	Nylon	**491R25**
Flow Through Brush Head	8"	Blue	Polypropylene	**2ZPC9**
Flow Through Brush Head	10"	Blue	Polypropylene	**2ZPC6**
Flow Through Brush Head	10"	Blue	Polypropylene	**2ZPC7**
Flow Thru Handle	—	—	—	**2ZPA3**
Tire Brush	11"	Cream	Cotton	**2ZPD5**

Item	Overall Length	Bristle Color	Bristle Material	Item No.
Truck Wash Brush	10"	Green	Polystyrene	**5A171**
Wash Brush	14"	Blue	Polyester	**400F92**
Carrand				
Car Wash Brush	10"	Yellow	PVC	**39R408**
Car Wash Brush	11"	Blue	PVC	**39R392**
Lug Nut Brush	7"	Gray	PVC	**39R399**
Power Wash Brush	55"	Black, White	PVC	**39R412**
Quad Head Brush	11"	Gray, White	PVC	**39R409**
Scrub Brush	6½"	Blue	Polypropylene	**39R401**
Tire Brush	6"	Blue	Polypropylene	**39R388**
Wheel and Brake Dust Remover Brush	12"	Blue, Yellow	PVC	**39R389**
Wheel and Bumper Brush	11"	White	Polypropylene	**39R393**

CleanTools.inc.

Detailing Towel, Cloths, and Wipes



No. 1ECE3

The Absorber® and Absorber XL Drying Cloths—Super-absorbent towels absorb moisture quickly and completely. Absorber XL has a textured surface that holds more water to help you cover more area in a shorter time.

The Glosser® Detailing Wipes—Microfiber wipes contain water-based waxes and cleaners to remove dust, dirt, and grime safely from all finishes, while providing a glossy finish.

Description	L (in.)	W (in.)	Item No.	Pkg. Qty.
The Absorber® Drying Cloth	27	17	**1ECE3**	1
The Absorber® XL Drying Cloth	29	18	**1ECD8**	1
The Glosser® Detailing Wipes	25	13	**1ECD9**	5



No. 1UER9



No. 453D19

Bug and Tar Removers

Specifically formulated to remove sticky insects, tree sap, and tar.

Brand	Container Type	Size	Item No.	Pkg. Qty.
Blue Magic	Bottle	8 oz.	**36G627**	1
Gunk	Aerosol Can	12 oz.	**54YK36**	1
Turtle Wax	Bottle	16 oz.	**1UER9**	1
Turtle Wax	Aerosol Can	16 oz.	**48HN71**	1
Zep	Aerosol Can	20 oz.	**453D19**	12



No. 4LRF6



No. 3ZLD6

Degreasers and Cleaners/Degreasers

Choose from a variety of degreaser/cleaners that handle countless applications; remove grease, oil, wax, tar, and dirt on contact. Ideal for cleaning floors, degreasing engines, automotive parts, tools, bathrooms, walls, and countertops—leaves surfaces clean.

Item	Container Size	Container Type	Item No.
Blaster			
Cleaner/Degreaser	11 oz.	Aerosol Can	**4LRF6**
CRC			
Engine Degreaser	15 oz.	Aerosol Can	**5EWA0**

Item	Container Size	Container Type	Item No.
Gunk			
Engine Cleaner and Degreaser	15 oz.	Aerosol Can	**54YK12**
Engine Cleaner and Degreaser	17 oz.	Aerosol Can	**54YK13**
Engine Cleaner and Degreaser	32 oz.	Spray Bottle	**54YK14**
Engine Cleaner and Degreaser	15 oz.	Aerosol Can	**54YK15**
Sprayon			
Engine Degreaser	12 oz.	Aerosol Can	**1D269**
SuperClean			
Cleaner/Degreaser	32 oz.	Spray Bottle	**3ZLC9**
Cleaner/Degreaser	1 gal.	Jug	**3ZLD2**
Cleaner/Degreaser	2.50 gal.	Jug	**3ZLD4**
Cleaner/Degreaser	5 gal.	Pail	**3ZLD6**



No. 54YK30



No. 6TUK3

Glass Care

Windshield treatments and cleaners are formulated to help drivers see clearly and keep vehicles looking good.

Item	Container Size	Container Type	Item No.	Pkg. Qty.
Armor All				
Auto Glass Cleaner	22 oz.	Package	**458R72**	1
Auto Glass Cleaner	22 oz.	Spray Bottle	**458R73**	1
Gunk				
Glass Cleaner	19 oz.	Aerosol Can	**54YK30**	1
Glass Cleaner	19 oz.	Aerosol Can	**54YK31**	1
NOCO				
Auto Glass Cleaner	20 oz.	Aerosol Can	**417Y37**	1
Oil Eater				
Antifog Windshield Treatment	4 oz.	Plastic Bottle	**6TUK4**	1
Rain Repellent	4 oz.	Plastic Bottle	**6TUK3**	1
Rainx				
Glass Cleaner	16 oz.	Plastic Bottle	**465D21**	1
Glass Cleaner	3.5 oz.	Bottle	**465D18**	1
Glass Cleaner	23 oz.	Bottle	**465D22**	1
Glass Treatment	3.5 oz.	Plastic Bottle	**465D19**	1
Glass Treatment	7 oz.	Plastic Bottle	**465D20**	1
Turtle Wax				
Dash and Glass Cleaner	23 oz.	Spray Bottle	**48HN78**	1
Zep				
Glass and Mirror Cleaner	22 oz.	Aerosol Can	**449V67**	12



No. 465D20



No. 48HN78



No. 14G872

Window Washers with Squeegee

The soft sponge head provides smooth, even washing, while the squeegee side helps you finish the job thoroughly and cleanly.

Color	Squeegee Blade Width	Squeegee Blade Shape	L	Mfr. Model	Item No.
With Handle					
Black	8"	Straight	15"	WS1524A	**14G871**
Black	8"	Straight	20"	WS2024A	**14G872**
Red	8"	Straight	30"	24-808NY-30A	**14G866**
Silver/White	8"	Straight	48"	12-8NY-48	**14G867**
Blue/Silver	10"	Straight	49" to 84"	4-10NY-E	**14G868**
Without Handle					
Black	8"	Straight	No Handle	WSH24	**14G873**



No. 38X852

Aircraft Cleaners

Products are formulated to meet the exacting requirements of aviation interior and exterior cleaning and maintenance.

Container Type	Size	Recommended Dilution	Std.	Item No.	Pkg. Qty.
Aircraft Window Cleaner					
Spray Bottle	1 qt.	Ready to Use	—	**38X852**	12
Drum	55 Gal.	Ready to Use	—	**38X853**	1
Heavy Duty Aircraft Cleaner					
Pail	5 gal.	1:1 to 1:128	ISO 9001 & ISO 14001 Certified	**38X856**	1
Drum	55 gal.	1:1 to 1:128	ISO 9001 & ISO 14001 Certified	**38X857**	1



No. 36G629



No. 45VH21



No. 52HF90



No. 1UER3

Tire Care

Formulated to remove road grime and help protect tires and other surfaces from the elements.

Brand	Container Size	Container Type	Item No.
Tire Shine			
Blue Magic	15 oz.	Aerosol Can	**36G628**
Blue Magic	23 oz.	Spray Bottle	**36G629**
Eagle 1	23 oz.	Bottle	**45VH21**
Gunk	15 oz.	Aerosol Can	**54YK37**
Turtle Wax	18 oz.	Aerosol can	**55AK10**
Tire Dressing			
Armor All	20 oz.	Aerosol Can	**52HF90**
Turtle Wax	23 oz.	Spray Bottle	**1UER3**
Zep Professional	20 oz. (14 oz. net)	—	**5DPW3**
Tire and Wheel Cleaner			
Gunk	22 oz.	Aerosol Can	**54YK33**



No. 52HF75



No. 52JM19



No. 52JM24



No. 1MPY6

Air Fresheners

Fragrance	Item No.	Pkg. Qty.
Little Trees		
Card with String		
Black Ice	**52HF68**	3
New Car	**52HF69**	3
Vanilla	**52HF73**	3
Vanilla	**52HF75**	6
Bayside Breeze	**52HF77**	3
Coconut	**52HF81**	3
Strawberry	**52HF83**	3

Fragrance	Item No.	Pkg. Qty.
Refresh		
Stick		
Summer Breeze/ Alpine Meadow	**52JM19**	6
Diffuser		
New Car	**52JM23**	2
Fresh Linen	**52JM24**	2
Pure Citrus		
Jar		
Citrus Blend	**1MPY6**	1
Orange	**1MPY5**	1
Lemon	**1MPY7**	1


No. 2CTK8


No. 45VH17


No. 5GVA3


No. 20RW96


No. 45C010


No. 1UER1


No. 19D065

Auto Detailing Waxes and Polishes

These products are formulated to give vehicles a smooth, clean shine, protect the paint from harsh environments, or both.

Description	Container Size	Container Type	Item No.
3M			
Quick Wax Spray	16 oz.	Spray Bottle	**2CTK8**
One Step Cleaner Wax	16 oz.	Plastic	**2CTK9**
Performance Finish	1 pt.	Plastic	**2CTK7**
Eagle 1			
Wipe & Shine Auto Detailer	23 oz.	Bottle	**45VH17**
Flitz			
Speed Wax Spray		Spray Bottle	**5GVA3**
Nu Finish			
Liquid Car Polish	16 oz.	Plastic Bottle	**20RW96**
Sprayway			
Instant Detail Cleaner and Polish	20 oz.	Aerosol Can	**45C010**
Instant Detail Wax	20 oz.	Aerosol Can	**45C011**

Description	Container Size	Container Type	Item No.
Turtle Wax			
Super Hard Shell® Paste Car Wax	14 oz.	Tub	**1UER4**
Super Hard Shell® Liquid Car Wax	16 oz.	Bottle	**1UEP9**
Express Shine Spray Car Wax	16 oz.	Spray Bottle	**1UER1**
Ice® Premium Car Liquid Wax	14 oz.	Bottle	**19D064**
Ice® Premium Car Spray Detailer	20 oz.	Spray Bottle	**19D065**
Ice® Premium Car Spray Wax	20 oz.	Spray Bottle	**19D066**
Performance Plus™ Clean and Shine Detailer	26 oz.	Spray Bottle	**48HN76**
Waterless Wash & Wax	26 oz.	Plastic Bottle	**55AK13**
Jet Black® Car Spray Wax	16 oz.	Plastic Bottle	**55AK15**


No. 1MPU7


No. 4NPV3

Metal Polish and Cleaners

Detailing products help restore a bright shine to metal wheels and trim.

Description	Size	Item No.
3M		
MAG and Aluminum Polish	10 oz.	**2CTL4**
Chrome and Metal Polish	10 oz.	**2CTL3**
Blue Magic		
Quick Shine Metal Polish	10 oz.	**36G632**
Pure Magic Liquid Metal Polish	8 oz.	**1MPU5**
Metal Polish Creme	19.38 oz.	**1MPU7**
Flitz		
Aluminum Preclean	16 oz.	**5GVA2**
Handstands		
Nevr-Dull® Wadding Polish	5 oz.	**4NPV3**


No. 1UER6


No. 2CTN8

Paint Finish Restorers

Remove oxidation and restore the shine to dulled surfaces with these detailing products.

Item	Container Size	Container Type	Item No.
Turtle Wax			
Heavy Duty Rubbing Compound	10.5 oz.	Tub	**1UER5**
Scratch Remover	10.5 oz.	Tub	**1UER6**
Speed Compound	16 oz.	Bottle	**48HN73**
3M			
Abrasive Rubbing Compound	1 pt.	Plastic Bottle	**2CTN8**
Abrasive Polish	1 qt.	Plastic Bottle	**2CTN4**
Abrasive Cleaner Clay Bar	1 pt.	Plastic Jar	**2CTN7**


No. 6YHE6


No. 2CTL2


No. 458R50


No. 458R70


No. 5EVY5


No. 54YK32


No. 45C012


No. 19D069


No. 48HN77


No. 3HUW9

Interior Cleaners and Protectants

Auto detailing products can help keep vinyl, rubber, plastic, leather, and other surfaces looking their best.

Item	Size	Container Type	Item No.
303 Aerospace Protectant			
Vehicle Interior Protectant	16 oz.	Plastic Bottle	**6YHE6**
Vehicle Interior Protectant	1 gal.	Plastic Bottle	**6YHE5**
3M			
Plastic Cleaner	8 oz.	Plastic	**2CTL2**
Armor All			
Automotive Cleaner	22 oz.	Spray Bottle	**458R49**
Automotive Cleaner	48 oz.	Bucket	**458R51**
Automotive Cleaner	20 Wipes	Package	**458R71**
Automotive Cleaner	16 oz.	Spray Bottle	**458R74**
Protectant	28 oz.	Plastic Bottle	**52JM50**
Vehicle Protectant	16 oz.	Spray Bottle	**458R50**
Vehicle Protectant	22 oz.	Package	**458R70**
Blue Magic			
Carpet Spot/Stain Lifter	22 oz.	Aerosol	**1MPV1**
Foam Carpet Cleaner with Stain Guard	22 oz.	Aerosol	**5EVY4**
Foam Upholstery Cleaner with Stain Guard	22 oz.	Aerosol	**5EVY5**
Interior Detailer	8 oz.	Bottle	**36G626**
Leather/Vinyl Cleaner	16 oz.	Spray Bottle	**1MPV2**
Leather Cream Conditioner	16 oz.	Spray Bottle	**1MPV3**

Item	Size	Container Type	Item No.
Gunk			
Automotive Carpet Cleaner	22 oz.	Aerosol Can	**54YK32**
Sprayway			
All Purpose Cleaner	19 oz.	Aerosol Can	**45C023**
Fabric Cleaner	19 oz.	Aerosol Can	**45C016**
Interior Detailer	20 oz.	Aerosol Can	**45C013**
Multi-Purpose Shine	11 oz.	Aerosol Can	**45C012**
Turtle Wax			
Automotive Carpet Cleaner	18 oz.	Aerosol	**19D069**
Automotive Upholstery Cleaner	18 oz.	Aerosol	**19D070**
Interior Automotive Cleaner	20 oz.	Spray Bottle	**19D067**
Leather Cleaner and Conditioner	16 oz.	Spray Bottle	**48HN77**
Vehicle Protectant	23 oz.	Bottle	**54HR53**
Zep			
Foaming Vinyl Cleaner	1 lb. 2 oz.	Aerosol Can	**453D59**
Vinyl and Rubber Dressing	1 qt.	Spray Bottle	**3HUW9**
Vinyl and Rubber Dressing	1 gal.	Bottle	**3HUX1**


No. 2ZPF1


No. 2ZPE8


No. 400C56

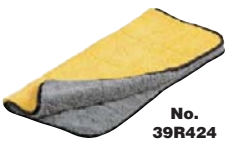

No. 2ZPE3


No. 2ZPE1


No. 32UV15


No. 39R422


No. 39R425


No. 39R424

Sponges, Mitt, Cloths, and Pads

Microfiber Cloths—No. 2ZPF1 has an absorbent waffle weave to reduce the frequency of wringing.

Microfiber Pads—No. 2ZPE2 has an elastic band to hold pad to hand securely. Nos. 2ZPE7 and 2ZPE8 are for polishes.

Sponges—Lift and hold dust, dirt, and grease. Use No. 2ZPE6 to polish surfaces.

Mitt—Features microfiber on 1 side for cleaning and honeycomb mesh on the other for scrubbing.

Item	Size	Color	Item No.	Pkg. Qty.
Tough Guy				
Microfiber Cloth	18" x 24"	Brown	**2ZPE9**	1
Microfiber Cloth	24" x 24"	Brown	**2ZPF1**	1
Microfiber Cloth	16" x 16"	Blue	**32UV15**	24
Microfiber Cloth	16" x 16"	Blue	**32UV16**	12
Microfiber Cloth	12" x 16"	Green, Red, Yellow, Gray	**400C55**	12
Microfiber Pads	9"	White	**2ZPE2**	1
Microfiber Pads	4"	White	**2ZPE7**	2
Microfiber Pads	4"	Blue, White	**2ZPE8**	2
Microfiber Towel	14" x 14"	Blue, Gray	**400C56**	8
Scrubber Sponge	9 x 4½"	Blue	**2ZPE3**	1
Scrubbing Mitt	11½ x 8"	Blue	**2ZPE1**	1
Sponge	8¼ x 5"	Chamois	**2ZPE6**	1

Item	Size	Color	Item No.	Pkg. Qty.
Carrand				
Cloth Rag	11" x 17"	White	**39R420**	3
Microfiber Cloth	12" x 16"	Gray, Green, Yellow	**39R422**	3
Microfiber Cloth	12" x 16"	Blue, Gray	**39R423**	2
Microfiber Cloth	12" x 16"	Green, Red, Yellow, Gray	**39R425**	12
Microfiber Cloth	22" x 36"	Yellow	**39R426**	1
Microfiber Cloth	16" x 16"	Yellow, Gray	**39R424**	1

Dusters and Dust Pan with Brush

Lint-free, machine-washable dusters will not scratch clear coat or paint. No. 2ZPC5 brush snaps into dust pan for storage.


No. 2ZPD8


No. 2ZPC5

Description	Item No.
Microfiber Duster Set, (1) 5¾"L Brush and (1) 14¼"L Brush	**2ZPD8**
Microfiber Duster, 14¼"L Brush with Folding Handle and Carrying Pouch	**2ZPD9**
Dust Pan with Hand-Held Brush, Brush 5"W x 8"L and Pan 6"W x 7½"L	**2ZPC5**

3M Polishing Pads and Detailing Cloths


No. 2EXY6


No. 2EXZ3

Perfect-It™ Polishing Pads—Single-sided high-performance pads attach to Hookit™ Back Up Pads Nos. 2EXY4 and 2EXY5 (sold separately) to fit all ⅝"-shaft slow-speed polishers.

Perfect-It™ Detailing Cloths—2-ply polyester/nylon microfiber won't scratch or streak paint, chrome, glass, dashboards, or other vehicle surfaces.

Wool Compound Pads—Use these double-sided pads with adapter No. 2EXY3 (sold separately) to refine paint surface defects.

Hookit™ Back-Up Pads and Adapter—Backup pad allows quick attachment, accurate centering, and easy removal of single-sided compounding or polishing pads.

Description	Item No.
Perfect-It™ Polishing Pads	
100% Wool Compound Pad, 9" dia.	**2EXY6**
Foam Polishing, 8" dia., Pkg. of 6	**2AZC9**
Ultrafine Foam Polishing, 8" dia.	**2EXY9**
Perfect-It™ Detailing Cloths	
14"L x 12"W	**2EXZ3**
14"L x 12"W, Pkg. of 6	**2EXZ1**
Wool Compound Pads	
100% Wool Compound Pad, 9" dia.	**2EXY2**
Blended Wool Compound Pad, 9" dia.	**2EXY8**
Hookit™ Back-Up Pads and Adapter	
Hookit™ Backup Pad, 7" dia.	**2EXY4**
Perfect-It™ Hookit™ Backup Pad, 7" dia.	**2EXY5**
Screw-On Pad Adapter, ⅝"	**2EXY3**


No. 43Y077


No. 42X695

Autobody Sanding Block Kit, Discs, Rolls, and Pads

Finishing Block Sanding Kit and Refills—The ergonomic design provides maximum control and comfort. The steel reinforcement plate helps improve finishing results, with reduced sanding effort.

Gold Sanding Discs and Rolls—Multipurpose grain is ideal for all automotive finishes as well as wood, metal, fiberglass, and painted surfaces. The "anticlog" coating prevents loading to increase cutting performance.
- Pressure-sensitive adhesive paper backing

G2 Abrasive Disc—Designed for automotive and marine finishes, wood, metal, fiberglass, and painted surfaces. The durable backing resists tearing and provides ultimate durability. Anticlog coating prevents "loading" of abrasive surface. Feature "Quick-Change" hook-and-loop holding system.
- Film backing

G2 Waterproof Sanding Sheets—Made with a specially treated, waterproof backing for increased "wet" performance and flexibility.
- Film backing

Scuffing Pads—Nonwoven synthetic flexible pads are ideal for scuff sanding and finishing of automotive and marine finishes, wood, metal, and fiberglass.

Description	Item No.	Pkg. Qty.
Finishing Sanding Block Kit and Refill Sheets		
Sanding Block Kit with (1) Each of 80, 120, and 220 Grit Sheets, 3 x 5"	**43Y077**	3
Film Backed Refill Sheets For Sanding Block		
Medium Grade, 80 Grit, 3" x 11"	**43Y078**	15
Fine Grade, 120 Grit, 3" x 11"	**43Y079**	15
Very Fine Grade, 180 Grit, 3" x 11"	**43Y080**	15
Gold Sanding Discs		
Coarse Grade, 40 Grit, 6"	**42X680**	25
Medium Grade, 80 Grit, 6"	**42X681**	50
Medium Grade, 80 Grit, 6"	**49XW78**	100
Fine Grade, 120 Grit, 6"	**42X682**	50
Very Fine Grade, 220 Grit, 6"	**42X685**	50
Super Fine Grade, 400 Grit, 6"	**42X687**	50
Gold Sanding Rolls		
Coarse Grade, 80 Grit, 2¾" x 20yd	**42X695**	1
Medium Grade, 120 Grit, 2¾" x 20yd	**42X696**	1
Fine Grade, 220 Grit, 2¾" x 20yd	**42X699**	1
Very Fine Grade, 320 Grit, 2¾" x 20yd	**42X701**	1
G2 Abrasive Disc		
Ultra Fine Grade, 1000 Grit, 6"	**42X645**	50
G2 Waterproof Sanding Sheets		
Fine Grade, 220 Grit, 9" x 11"	**42X649**	25
Super Fine Grade, 400 Grit, 9" x 11"	**42X651**	25
Super Fine Grade, 600 Grit, 9" x 11"	**42X652**	25
Ultra Fine Grade, 800 Grit, 5½" x 9"	**42X653**	25
Ultra Fine Grade, 1000 Grit, 5½" x 9"	**42X654**	25
Ultra Fine Grade, 1500 Grit, 5½" x 9"	**42X656**	25
Ultra Fine Grade, 2000 Grit, 5½" x 9"	**42X657**	25
Ultra Fine Grade, 2500 Grit, 5½" x 9"	**42X658**	25
Scuffing Pads		
Very Fine Grade, 360 Grit, 6" x 9"	**42X662**	10



No. 5KGH5



No. 48UV15



No. 4HA44



No. 48UV20



No. 3R738



No. 23NY36

OTC PROTO WESTWARD

Bearing Pullers and Separator Tools

Remove gears and bearings too close to another surface for a puller jaw to grip, or where the pulled out portion must be protected.

Item	Includes	Mfr. Model	Item No.
OTC			
Bar Type Puller/ Bearing Separator Set	Bearing Splitter With 4" Capacity, 2 Sets Of Hex Push Puller Legs, 8" Bar Type Puller Head Mated With a Custom Thread Forcing Screw	4517	**5KGH5**
Bearing splitter	(4) Bearing Splitters, Pulley Pulling Attachment	1183	**48UV15**
Multipurpose Bearing and Pulley	2 Forcing Screws, 2 Cross-Bar Yokes, 2 Clamp Bolts, 3 Pairs of Puller Jaws, 1 Pair Jaw Pins, 3 Pairs of Cap Bolts, Blow-Molded Case	4534	**4HA44**
Puller Set	(2) Bearing Splitters, (4) Sets of Hex Push Puller Legs, Bar Type Puller Head, Puller Crossbar, Plastic Storage Case	4518	**48UV20**
Puller Set	(2) Sets of Forged Jaws, (2) Forcing Screws	4532	**48UV22**
Proto			
Bearing Separator Set	Gear and Bearing Separators 1 13/16, 2 13/32, 4 3/8, and 6", Threaded Rod, Molded Plastic Case	J4390B	**3R738**
Press-N-Pull Set	Forcing Screw Tip, 3/4-12" Female x 3/8" Male Acme Adapter, 3/4-12" Acme Female x 3/8"-18NF Male Adapter, (3) 7/16-14" x 3/4" Lock Screws, 3/4-12" Acme Coupling Nut, 3/4-12" Acme x 12" Forcing Screw, 2- and 3-Way Crossarms, 3/4-12" Acme Forcing Nut, Thrust Washer, (3) 5/8-18" Female x 1/2-20" Female Adapters, (3) 5/8-18" Female x 1/2-20" Male Adapters, (3) 5/8-18" Female x 3/4-16" Female Adapters, (3) 5/8-18" Female x 3/4-16" Male Adapters, (3) 5/8-18" Female x 7/8-14" Female Adapters, (3) 5/8-18" Female x 7/8-14" Male Adapters, (3) Slide Blocks, (3) Medium Legs, (3) Short Legs, Bearing Separator, Molded Plastic Case	J4293B	**3R733**
Wide Puller Set	Forcing Screw (1Q590), Detachable Tip, 2- and 3-Way Crossarms, Adjustable Jaw Block Assembly, Jaw Spring Clip, Bearing Separator 6" Capacity, Cap Screw 2 15/16", Long Narrow Jaw 7 3/16", Molded Plastic Case	J4292B	**3R732**
Westward			
Bearing Puller Set	Forcing Screws, Cross Block Assembly, (2) Puller Jaws, Puller Jaws Retaining Yoke,(4) Step Plates	23NY37	**23NY37**
Bearing Splitter Set	(2) Bearing Splitters, (4) Sets of Hex Push-Puller Legs, and (1) Bar-Type Puller Head with Forcing Screw, Carrying Case	23NY36	**23NY36**
Bearing Splitter Set	Forcing Screws, Cross Block Assembly, (4) Puller Jaws, and Puller Jaws Retaining Yoke	23NY38	**23NY38**



WESTWARD

Bearing Positioning Tool Set

Use to easily position a bearing in the inner hole of the axle. 8-pc. kit includes handle, 6 heavy-duty bearing drivers, and carrying case.

Size	Item No.
1.555,2.322,2.834,1.752,2.48,2.992,1.968,2.559, and 3.189	**32J061**



No. 23M596

WESTWARD OTC PROTO

Bearing Splitters

Ideal for use in tight spaces.

Max. Spread (in.)	Min. Spread (in.)	Mfr. Model	Item No.
Westward			
1 5/16	1/4	23NY32	**23NY32**
2	1 3/16	23M596	**23M596**
3	2	23M603	**23M603**
4 1/2	3	23M597	**23M597**
6	4 1/4	23M598	**23M598**
9	1/2	23NY33	**23NY33**
OTC			
1 5/16	1/4	1121	**48UU93**
2	1/8	1122	**48UU94**
4 3/8	1/2	1123	**48UU95**
9	1/2	1130	**48UU98**
13 3/8	3/4	1127	**3GZK8**
Proto			
6	1/2	J4333A	**1Q638**



WESTWARD PROTO POSI LOCK PULLER, INC. OTC

Manual Jaw Pullers

These pullers enable you to remove and install parts for fast, effective repairs. The pullers are forged from quality steel, heat treated, and subjected to rigorous tests which exceed their rated capacity.

Nonreversible jaws have deeper jaws for fan blades and blower wheels.

Cap.	No. of Jaws	Jaw Reach	Jaw Spread	Screw Length	Locking	Jaw Style	Mfr. Model	Item No.
Westward								
1 ton	2	2⅛"	3¼"	3⅞"	Yes	Nonreversible	23MD16	**23MD16**
	3	2⅛"	3¼"	3⅞"	Yes	Nonreversible	23MD17	**23MD17**
2 to 3 tons	2 or 3	2¾"	3⅞"	4 15/16"	No	Reversible	4YT14	**4YT14**
2 tons	2	3¼"	4"	4⅞"	Yes	Reversible	23MD19	**23MD19**
	2 or 3	3¼"	4¾"	4⅞"	Yes	Reversible	23MD20	**23MD20**
3 tons	2 or 3	2⅛"	5" and 4½"	—	Yes	Reversible	23MD18	**23MD18**
4 to 6 tons	2 or 3	4 9/16"	5½"	6 5/16"	No	Reversible	4YT15	**4YT15**
5 tons	2	3¼"	6"	6 15/16"	Yes	Reversible	23MD21	**23MD21**
	2	5½"	6"	6 15/16"	Yes	Reversible	23MD26	**23MD26**
	2 or 3	3¼"	7"	6 15/16"	No	Reversible	1MZP2	**1MZP2**
	2 or 3	3¼"	7"	6 15/16"	Yes	Reversible	23MD22	**23MD22**
	2 or 3	5½"	4½"	6 15/16"	Yes	Reversible	23MD25	**23MD25**
	2 or 3	5½"	7"	6 15/16"	Yes	Reversible	23MD27	**23MD27**
6 to 9 tons	2 or 3	6"	8½"	—	No	Reversible	4YT17	**4YT17**
7 tons	2	5"	9"	9"	Yes	Reversible	23MD23	**23MD23**
	2	8¾"	9½"	9"	Yes	Nonreversible	23MD28	**23MD28**
	2 or 3	5"	10½"	9"	No	Reversible	1MZP3	**1MZP3**
	2 or 3	5"	10½"	9"	Yes	Reversible	23MD24	**23MD24**
	2 or 3	8¾"	11"	9"	Yes	Nonreversible	23MD29	**23MD29**
8 or 10 tons	2 or 3	8"	12½"	—	No	Reversible	4YT16	**4YT16**
13 tons	2	11"	12"	12"	Yes	Nonreversible	23MD30	**23MD30**
	2	15¼"	15½"	12"	Yes	Nonreversible	23MD34	**23MD34**
	2 or 3	11"	12"	12"	Yes	Nonreversible	23MD31	**23MD31**
	2 or 3	15¼"	17"	12"	Yes	Nonreversible	23MD35	**23MD35**
17½ tons	3	14½"	14"	13½"	Yes	Nonreversible	23MD32	**23MD32**
Proto								
2 tons	3	3½"	4"	4¾"	No	Reversible	J4034	**3R657**
5 tons	2	5½"	7"	7"	No	Reversible	J4035	**3R658**
	3	5½"	7"	7"	No	Reversible	J4036	**3R659**
6 tons	2 or 3	4½"	8"	—	Yes	Reversible	J4217	**3R699**
7 tons	2	9"	10"	9"	No	Reversible	J4037	**3R660**
	3	9"	11"	9"	No	Reversible	J4038	**3R661**
10 tons	3	5"	12"	—	Yes	Reversible	J4233E	**3R704**
Posi Lock								
1 ton	3	2¼"	3¼"	5½"	Yes	Nonreversible	102	**5LD35**
2 tons	2	4"	½" to 5"	10¼"	Yes	Nonreversible	204	**4GB26**
	3	3"	4½"	7"	Yes	Nonreversible	103	**5LD36**
5 tons	3	4"	5"	9 1/16"	Yes	Nonreversible	104	**5U719**
6 tons	2	6"	½" to 7"	12⅞"	Yes	Nonreversible	206	**4GB27**
10 tons	3	6"	7"	12¾"	Yes	Nonreversible	106	**1AC04**
12 tons	2	8"	¾" to 12"	16⅝"	Yes	Nonreversible	208	**4GB28**
14 tons	2	10"	15"	19¼"	Yes	Nonreversible	210	**1AC03**
17 tons	3	8"	12"	16¼"	Yes	Nonreversible	108	**5LD37**
20 tons	3	10"	15"	19¼"	Yes	Nonreversible	110	**1AC05**
30 tons	3	12"	18"	26"	Yes	Nonreversible	113	**5LD38**
40 tons	3	14"	3" to 25"	32"	Yes	Nonreversible	116	**4GB25**
OTC								
2 tons	2 or 3	3¼"	4¾"	⅜"	No	Reversible	1023	**48UU72**
5 tons	2 or 3	5½"	7"	9/16"	No	Reversible	1027	**48UU76**
7 tons	2 or 3	5"	10½"	11/16"	No	Nonreversible	1037	**48UU79**
13 tons	2 or 3	11"	12"	13/16"	No	Nonreversible	1041	**48UU83**
	2 or 3	15¼"	17"	13/16"	No	Nonreversible	1042	**48UU84**

OTC

Shaft Protector Set

Protects shaft centers from distortion when extreme pressures are applied. Use with fan blade, gear, and bearing pullers.

No. of Pieces	Mfr. Model	Item No.
6	8056	**5U731**



POSI LOCK PULLER, INC.

Mini Manual Puller Set

- 1- to 2-ton capacity

Designed for small removal challenges. Ideal for lawn and garden equipment, snowmobiles and motorcycles, air tools, and more. Includes storage kit.



No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Mfr. Model	Item No.
2 or 3	3	¼ to 4½	Locking and self Aligning	Non-reversible	PMW-1	**4GB36**

WESTWARD

Reversible 2- or 3-Jaw Puller Set

Versatile pullers feature a narrow face on one end and a wide face on the other to create a 2-in-1 tool that saves you time and money. Jaws can easily be reversed by sliding the jaw to the end of the crossblock and turning them around 180°.



Cap.	No. of Jaws	Jaw Reach	Jaw Spread	Jaw Style	Item No.
5 TON	2 or 3	5½"(139.7mm)	8"	Reversible	**45FF29**

WESTWARD

4-In-1 Jaw Puller Kit

- 7-ton capacity

Quick-and-easy assembly makes a 2-jaw or 3-jaw puller with the reach, spread, and power you need for all applications. It easily handles larger gears, bearings pulleys, wheels, sprockets, and other press-fit parts.



No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Item No.
2 or 3	8¾	11	Manual	Double	**23MD43**

WESTWARD

Lock-On, Jaw-Type Puller Set

- 5-ton capacity

Set contains versatile internal and external pullers that can be created to easily remove harmonic balancers, gears, bearing, timing gears, and other difficult parts. Includes sturdy storage case.



No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Item No.
2 or 3	4, 6½	8, 12	Lock On Jaw	Straight	**23MD47**





No. 3R707

No. 3R693

Proto-Ease™ 2-Way Straight Jaw Puller Sets

PROTO

Comes with a steel storage box. No. 3R693 is specially shaped for minimum clearance pulling situations. No. 3R707 is used with a separator to remove a truck countershaft's rear bearing.

Cap.	Jaw Reach	Jaw Spread	Mfr. Model	Item No.
6 tons	Dual Jaw 2 And 4", Narrow Jaw 4	6	J4212SJB	**3R693**
10 tons	2 15/16", 4 11/16" and 7 1/8"	10"	J4234B	**3R707**

WESTWARD

Blind Hole Bearing Puller Set



Ideal for jobs that require an internal pull, such as pilot bearings. Includes 4 collets to fit a wide range of applications. Also includes a plastic storage case.

Includes	Item No.
10-pc Attachment, 1-pc Slide Hammer, 3-pc. Pin, 1-pc Puller	**23KX50**

POSI LOCK PULLER, INC.

Hub Puller Adapter Set



Helps simplify the removal of many industrial and automotive fans and blower wheels by providing a solid connection between the puller and fan hub. Includes carrying case.

Includes	Mfr. Model	Item No.
3-Jaw 4" 5-Ton Puller, Small and Large Collar Adapters,Tip Reducer/Extender, Carrying Case	HP-2	**5LD39**

PROTO

Standard Puller Set



▪ 6-ton capacity

Contains enough components to make over 20 of the most often used pullers including: internal, external, slide hammer, rear axle, and harmonic balancer. Includes molded plastic case.

Includes	Mfr. Model	Item No.
T-Handle Slide Rod, Short Slide Rod, 5-lb., and 2½ lb. Slide Hammers, 2- and 3-Jaw Yokes, 2- and 3-Way Slotted Crossarms, 4 and 6" Reversible Jaws, 2" Reach Inside Jaw, Gear and Bearing Splitter, and more.	J4290B	**3R730**



GEARWRENCH®

Steering Wheel Puller Kit

Engineered to remove steering wheels from most domestic and import cars with or without telescoping tilt columns.

Includes	Mfr. Model	Item No.
Puller Yoke and Screw Extension Bushing, Lock Plate Removal Tool, 2-pc. Puller Leg Package, Pivot Pin, Lock Plate Depressor Frame, Lock Plate Remover Collars and Nut Washer, Screw Package	41620D	**2HLF6**

POSI LOCK PULLER, INC.

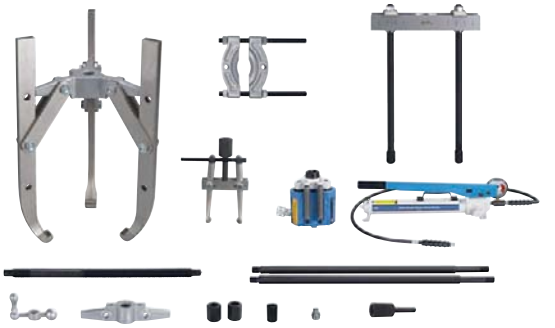
Hydraulic Puller



▪ 12-ton capacity

Self-contained system features nonreversible jaws and interchangeable ram points for multiple shaft sizes and configurations.

Includes	Mfr. Model	Item No.
Self Contained Manual Hydraulic Puller With 2 Pushing Adaptors	PHS-108	**1TMR3**



Hydraulic Puller Set

OTC

▪ 17½-ton capacity

This set is designed to remove or install interference fit parts like gears, couplings, bearings, wheels, pulleys, axles, shafts, brake drums, and many other press fit components.

Includes	Mfr. Model	Item No.
Hydraulic Hand Pump, Threaded Insert, Tee Adapter, Pressure Gauge, 6 Foot Hydraulic Hose,Hose Half Coupler With Dust Cover, Hydraulic Push Puller With 18" Legs, And 3 Jaw Hydraulic Puller	1688	**3Z962**

OTC

King Pin Pusher



With this pin remover, hydraulic force and precision tooling replaces torch and hammer methods.

Includes	Mfr. Model	Item No.
Hydraulic Hand Pump, Hose, Hose Half Coupler, Power Twin 30-Ton Ram, Anchor Pin Adapter	4240A	**1EAX3**



WESTWARD

Multipurpose Puller Sets

These professional quality sets give you a wide range of versatility.

Includes	Item No.
⅛" to 4⅝" Bearing Separators, 5-Ton Gear and Pulley Puller, Steering Wheel Puller, 5-Ton Flange Type Puller, 2⅛" Pitman Arm Puller, 5-and 7-Ton Jaw Pullers, 6⅝" and 10⅜" Jaws, 1½" Flange Puller Plate, 2-Jaw Pilot Bearing Puller, 2-or 3-Jaw Reversible Slide Hammer, Lockable Metal Storage Cabinet (Wall or Surface Mount)	23MD44



OTC

Strong Box Multipurpose Puller Set

Enables you to pull gears, bearings, pulleys, wheels, and more on cars and light trucks. Come contained in a rugged, lockable metal storage cabinet you can either mount on a wall or stand on a work bench. Includes 8 pullers, 5 attachments, and extra puller jaws.

Includes	Item No.
(2)Jaw Puller, Gear, Pulley Puller, Flange Type Puller, Steering Wheel Puller, Pilot Bearing Puller, Slide Hammer Puller, Pitman Arm Puller, (2) Bearing Splitter, Rear Axle Pulling Adapter, (6) Long Jaw, Metal Storage Box	48UV17



No. 48UV13



No. 1MZP8

WESTWARD

OTC

Slide Hammer Puller Sets

These sets are designed to pull hubs, bearings, gears, pulleys, body dents, and seals on most imported and domestic vehicles.

Includes	Brand	Item No.
5-lb. Slide Hammer, 3-Way Cross Head, Cone, 2-Way Cross Block, Puller Hook Attachment, 3 Internal/External Jaws, Dent Puller, Grip Wrench, Adapter, Case	Westward	1MZP6
5-lb. Slide Hammer, 2-Way/3-Way Cross Blocks, Cone, (3) Internal Jaws, (6) Internal/External Jaws, Rear Axle and Dent-Pulling Attachments, Puller Hook Attachment, Grip Wrench Adapter, Front Hub Puller Attachment, Case	Westward	23KX54
5 lb. Slide Hammer Puller, 2 Way Head, 3 Way Head, Front Hub Puller, Spare Locknut, 2 tons Combination Jaw, Puller, 5 tons Jaw, Bar Type Gear, Pulley Puller, (2) Hex Head Cap Screws, Bearing Pulling Attachment	OTC	48UV13
Rear Axle-Pulling Attachment, 3-Way Cross Head, Cone, 2-Way Cross Block, Puller Hook Attachment, Puller Hook Attachment, Grip Wrench Adapter with Single Lead, Dent Puller Attachment, Front Hub Puller Assembly, Forcing Screw, Sleeve, Blow-Molded Case	Westward	1MZP8

WESTWARD

Slide Hammer Pullers

- 24"L

These pullers are for loosening tight assemblies with a heavy weight on a guide-bar to pull hubs, bearings, gears, pulleys, body dents, and seals on most imported and domestic vehicles.



No. 23KX44



No. 23KX41



No. 23KX53

Description	Item No.
2½ lb. Puller, Steel with Chrome Plating	23KX44
3 lb. Puller, 3 lb. Hammer, 2 jaw	23KX51
5 lb. Puller, Steel with Chrome Plating	23KX41
10 lb. Puller, Steel with Red Painting	23KX53



PROTO

Proto-Ease™ Master Puller Sets

- 10-ton capacity

Cover most maintenance operations using standard pullers. Contains components necessary to assemble all full-interchange system pullers except Proto® Press-N-Pull™ Pullers.

Description	Includes	Mfr. Model	Item No.
73-pc. Set with Steel Tool Box	Slotted Crossarm, Puller Tip, Forcing Screw, 2- and 3-Way Yokes, Reversible Adjusting Nut, Jaw Pivot Pin, 2½- and 5- Lb. Sliding Hammer, T- Handle and Short Slide Rod, Axle Flange, Blind Bearing Puller, Jaw Block Assembly, Bearing Separators (2⅜" and 6" Cap.), Step Plate Adapter Set, Step Plates, 2⅛, 2¼, 2⅜" Bore, Inside Jaw 2, and Reversible Jaw 4" and 6" Reach	J4235B	3R709
73-pc. Set without Tool Box		J4235A	3R708


No. 29FX52


No. 29FX43

WESTWARD

Push Pullers

For maintenance operations involving removal and installation of gears, bearings, shafts, pulleys, and press-fit parts.

Cap.	Reach	Spread (in.)	Item No.
Pulley Puller			
5 Tons	2"	1¾ to 4½	**29FX50**
7 Tons	—	2¼ to 7¾	**29FX52**
Push Puller			
10 Tons	8¼"	2⅝ to 7¾	**29FX43**
17½ Tons	11¼"	4⅜ to 12⅜	**29FX45**
30 Tons	10"	7¼ to 17	**29FX44**
Push Puller Set			
10 Tons	8¼"	Var.	**29FX53**


No. 29FX53


No. 29FX47

WESTWARD

Flange Pullers

For use on harmonic balancers, steering wheels, crankshaft pulleys, and gear pulleys. Fits almost all automotive and light truck applications, domestic and imports, older and current models.

Bolt Circle Dia. (in.)	Screw Size	Item No.
1½ to 4⅝, 1 to 2⅝	⅝"-10	**29FX47**
1½ to 4⅝	⅝"-18 x 5½"	**29FX48**


No. 29FX48

WESTWARD

Slack Adjuster Puller

Designed to service all S-cam air brake slack adjusters on the market. Works on Rockwell, Haldex, Gunite, and Bendix automatic adjusters.

Description	Item No.
Slack Adjuster Puller for Automatic Adjusters	**32J067**
Hood Safety Lift Prop	**20C925**



POSI LOCK PULLER, INC.

Transmission Bearing Pullers

Machined jaws clamp in snap-ring grooves as narrow as 0.07" to remove transmission bearings in minutes. Also effective for transfer cases on 4-wheel-drive vehicles, output shaft bearings, and other applications on many vehicles.

Cap.	Jaw Spread	Jaw Reach	Mfr. Model	Item No.
10 tons	½" to 7"	6"	TJ-2	**1TMR1**
12 tons	¾" to 12"	8"	TJ-1	**1TMP9**


No. 1TMR1


No. 23M592

No. 2ZPK6

GEARWRENCH

WESTWARD

Suspension and Steering Tools

Description	Brand	Mfr. Model	Item No.
Grease and Oil Seal Puller	Gearwrench	3245	**2ZPK6**
CV Joint Boot Clamp Plier	Westward	1MZN5	**1MZN5**
Ball Joint Separator	Westward	23M592	**23M592**
U-Joint Remover, ½" Drive	Westward	1EKN2	**1EKN2**


No. 1MZN5


No. 1EKN2


No. 32J054


No. 2TVN4


No. 1MZL8


No. 22A802


No. 2HLG3


No. 2TVK7

WESTWARD OTC GEARWRENCH

Suspension and Steering Service Kits

Commonly needed tools to maintain automotive suspensions and front ends are conveniently gathered into specialty kits.

Includes	Mfr. Model	Brand	Item No.
Separator Set			
11¾ x 1⅛, 11¾ x 1⅝, 11⅝ x 1⁷⁄₁₆, 15¾ x 1¹⁄₁₆, 15¾ x 1⁵⁄₁₆	32J054	Westward	**32J054**
Ball Joint Service Kit			
No. 1EAV4 (C-Frame Press), 3" O.D. x 2¾" I.D. Receiver Tube, 2½" O.D. x 2¼" I.D. Receiver Tube, 2" O.D. x 1¾" I.D. Receiver Tube, Installing Adapter, and Removing Adapter	7249	OTC	**2TVN4**
Case, Adapters, C-frames And Manual	6559	OTC	**22A802**
Ball Joint Adapter Set			
Receiver Tubes and Removing and Installing Adapters For Most GM, Ford, and Dodge 2- and 4-Wheel Drive Vehicles (Through 1997), and Blow-Molded Case	1MZL8	Westward	**1MZL8**
Front End Service Set			
Pitman Arm Puller 22 x 140mm, Tie Rod Puller, Universal Ball Joint Separator, Tie Rod End Puller and Pitman Arm Puller, Universal Tie Rod End Remover	41690	Gearwrench	**2HLG3**
2TVL1, 2TVL2, 2TVL3, 2TVK8, and 2TVK9	6295	OTC	**2TVK7**



OTC Disconnect Tool Set

26-pc. set contains tools for heater hoses, transmission oil coolers, and air conditioning and fuel lines. Designed to not damage fittings, and are vehicle manufacturer-approved.

For Use With	Mfr. Model	Item No.
GM, Ford, Chrysler	6508	2TVY2

★WESTWARD Exhaust Repair Tools



No. 1MUE3

Pipe Expanders—Extra-long alloy steel hex bar powers flaring and expansion of tail pipes.

Item	Dia. Range (in.)	L (in.)	Item No.
Exhaust Pipe and Tail Pipe Expander	1⅛ to 1¾	5¼	1MUE3
	1⅛ to 2½	6½	1MUE4
	2⅛ to 3½	8½	1MUE5
Exhaust Pipe and Tail Pipe Expander		5¼	1MUE3
		6½	1MUE4
		8½	1MUE5



No. 1MUE4

OTC U-Joint Puller



Heavy duty tool is perfect tool for disassembling drivelines and for quickly and easily removing sealed u-joint cups without the need for hammering or heat. Will not damage driveshaft, yoke, bearing cups, or joints.

Item	For Use With	Item No.
U Joint Puller	Class 7 and 8 Trucks	48XV63



No. 2GKT1

★WESTWARD Ignition Wrench Sets

These wrench sets feature 15° and 75° angles to turn nuts and bolts in tight spaces.

Wrench Head Sizes	Item No.
7/32", 15/64", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"	2GKT1
5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm	2GKT2

★WESTWARD Magnetic Parts Trays

Corrosion-resistant stainless steel trays hold tools and small parts in place even when tipped. Rubber bases help prevent scuffing and scratching.

Type	H (in.)	Dia. (in.)	L (in.)	W (in.)	Item No.
Round	1⅜	6	—	—	1EJZ2
Square	1½	—	11½	10¾	1EJZ3



No. 1EJZ2



No. 5MG16

OTC Seal and Bearing Driver Sets

Include discs and handles that can be assembled into a pilot, a spacer, and a driver. Sizes graduate in 1/16" increments.

Includes	Dia.	Mfr. Model	Item No.
Sizes: ⅝ to 2" Dia. and Storage Box	⅝" to 2"	27793	5MG15
Sizes: ½ to 3" Dia., 41 Discs, and 2 Handles	½" to 3"	27794	5MG16
3 Handles and 65 Discs	½" to 4 ½"	27797	2TVJ7

STEELMAN Terminal Tool Kits



No. 20C926

Convenient kits have the tools to easily remove terminals from electrical connectors and help eliminate damage to wires or terminal blocks. The handles are individually marked and designed for comfort and a steady grip.

Description	Mfr. Model	Item No.
19-pc. Master Terminal Tool Kit	95978	20C926
23-pc. Universal European Terminal Tool Kit	95839	20C928



★WESTWARD Variable-Pin Spanner Wrench

Tool adjusts from 1¼" to 5" to fit pulleys with holes, including camshaft and crankshaft pulleys. The handle has a ½" square drive hole for use with a ½" ratchet or breaker bar.

Includes	Item No.
(2) 3.5, 4, 4.5, 5, 6, 7, & 10mm Pins, & Case	32J050

GEARWRENCH Spark Plug Gap and Feeler Gauges



No. 2ZPF9



No. 2ZPF6

Versatile tools help verify or adjust the gap on spark plugs, spark plug electrodes, and other ignition clearances.

Description	Cap.	Mfr. Model	Item No.
Spark Plug Gap Wire Gauge with 2 Electrode Adjusting Tools	0.025 to 0.045"	166D	2ZPF9
Feeler Gauge, 32 Blades with (1) Brass Blade to Use with Electronic Ignitions	0.0015 to 0.035"	161D	2ZPF6

Soft Jaw Cannon Plug Pliers

PROTO



4-position privot design helps concentricity. ¾" to 2½" capacity. Replaceable pads on the jaws protect the work piece from scratching or marking.

Description	Mfr. Model	Item No.
Soft Jaw Cannon Plug Pliers	J253G	4JV77



No. 6RKR9



No. 6RKT0

PROTO

WESTWARD

Cooling System Tester Kit

Cooling system tester kit is used for testing the pressure of automotive engine cooling systems.

Cooling System Tester Kits—Unit is suitable for cars and light trucks and includes a complete pressure pump assembly and pressure gauge.

Large Truck Cooling System Adapter Set—Compatible with most cooling system pressure generating pumps. Kit comes with 6 cooling system adapters for truck models including Freightliner, International, Kenworth, Peterbilt, and Volvo.

No. of Pie	Brand	Mfr. Model	Item No.
Cooling System Tester Kits			
23	Proto	JFF1700	**6RKR9**
14	Westward	1YMH2	**1YMH2**
Large Truck Cooling System Adapter Set			
6	Proto	JFF600	**6RKT0**



WESTWARD

Radiator Cap Pressure Tester Kit

Max. pressure: 30 psi. Fits 0.47"-dia. shafts. Includes hand pump with gauge, universal cooling system adapters, radiator cap adapters, and carrying case.

Item	No. of Pieces	Mfr. Model	Item No.
Radiator Cap Pressure Tester	10	1DXL5	**1DXL5**



No. 1DXN3

No. 39E955



No. 1DXL7

WESTWARD ROBINAIR

Coolant Accessories

Item	Brand	Item No.
Heating and Cooling Tools		
Condenser Fin Comb	Westward	**1DXN3**
Chemical Test Strips		
Coolant Test Strips	Robinair	**39E955**
Tester Kits		
Antifreeze/Coolant Tester	Westward	**1DXL6**
Professional Antifreeze Tester	Westward	**1DXL7**
Antifreeze Tester	Westward	**1DXL8**



ROBINAIR

Coolant Exchanger

- 15-gal. internal waste tank
- Two, 7-gal. external supply tanks
- 10-min. exchange process
- No electricity required

Features a vacuum mode that allows safe removal of high-pressure coolant from a hot system. Process driven by 90 psi of shop air and a pump on the waste tank.

Item	Mfr. Model	Item No.
Coolant Exchanger	75700	**1DZK4**



No. 5RLZ0

Gates Thermoid

GA GRAINGER APPROVED



No. 4GJX4

Coolant Hoses

Inside Dia. (in.)	Working Pressure (psi)	L	Color	Temp. Range	Brand	Item No.
Heater Hoses						
⅜	60	50 ft.	Black/White	-40° to 275°F	Gates	**5NDE7**
½	50	50 Ft.	Black	257°F	Thermoid	**5RLZ2**
⅝	35	50 Ft.	Black	250°F	Thermoid	**5RLY9**
⅝	50	50 Ft.	Black	257°F	Thermoid	**5RLZ3**
⅝	62	50 ft.	Red	-40° to 200°F	Thermoid	**45AT63**
⅝	95	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDE9**
¾	35	50 Ft.	Black	250°F	Thermoid	**5RLZ0**
¾	50	50 Ft.	Black	257°F	Thermoid	**5RMA9**
¾	80	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDF0**
1	25	50 Ft.	Black	250°F	Thermoid	**5RLZ1**
1	75	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDF1**
Radiator Hoses						
¾	100	3 Ft.	Blue	-65° to 350°F	GA	**4GJX4**
¾	100	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDC3**
1½	100	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDC9**
2	60	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDD3**
2	75	3 ft.	Blue	-70° to 350°F	Gates	**45VF36**
2½	60	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDD7**



No. 38N842

No. 41RC51

MAG-MATE OTC

Hose Clamp Pliers

Description	Max. Jaw Opening (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Corbin Clamp Pliers					
Straight	2¼	9	Mag-Mate	PLC210	**38N842**
Automotive Hose Clamp Pliers					
Straight	2¼	9	Mag-Mate	PLC200	**38N841**
Extra Long	3½	10½	Mag-Mate	PLC230	**38N844**
Extra Long with 45° Angle	2½	10½	Mag-Mate	PLC220	**38N843**
Flexible Hose Clamp Pliers	—	—	OTC	4525	**41RC51**

WESTWARD · CHANNELLOCK · GEARWRENCH · PROTO

Oil Filter Pliers

Jaw-type design helps provide the torque to ease oil filter removal. Can operate in tight spaces and accommodate most common size auto and small engine filters.

Description	Adjustable Cap.	Mfr. Model	Item No.
Westward			
Adjustable	2¼" to 5"	45FF23	**45FF23**
Channellock			
4-Position	1¾" to 3"	209	**2ELD8**
5-Position	2½" to 3¾"	212	**5LJ40**
6-Position	2½" to 4½"	215	**5LJ41**
Adjustable	2½" to 5½"	OF-1	**38GU19**
Gearwrench			
Fixed Range Slip Joint	2 15/16" to 3⅝"	3368	**2ZPL2**
Adjustable	2 to 5"	3508D	**2ZPL9**
Proto			
Adjustable	2¼" to 5"	JFF297	**6RKN8**
Adjustable	3¾" to 7"	JFF287	**6RKN7**


No. 45FF23


No. 5LJ41


No. 2ZPL9


No. 6RKN8

WESTWARD

Rubber Strap Wrenches

For polished pipe and fittings, plastic pipe and fittings, oil and water filters, glass pipe, PVC conduit, and polished shafts.

Description	Cap.	L (in.)	Item No.
Strap Wrench with 22" Rubber Strap	1 to 6 3/10"	9	**23M601**
Strap Wrench with 34" Rubber Strap	1½ to 9½"	11	**23M602**


No. 23M601

GRAY

Air-Operated Oil Filter Crusher

- Removes up to 95% of used oil
- Crushes filter down to 25% of original size

Air operation eliminates electrical connections. Heavy-duty crusher automatically crushes filters up to 16". Interlocking door prevents door from opening during operation. Easy-to-clean with removable catch basin. Includes mounting stand.

Frame Cap. (tons)	Filter Size	Total Height (in.)	Mfr. Model	Item No.
11	Up to 9"	69½	QP-50	**11N146**
11	Up to 16"	85½	QP-160	**11N161**





mityvac

Hand Vacuum and Pressure Pump Kit

Dual-capacity hand pump can deliver both vacuum and pressure in vehicle service applications. Kit comes with accessories for performing automotive diagnostic and mechanical tests, and for one-person brake bleeding.

Includes	Mfr. Model	Item No.
Dual Vacuum/Pressure Converter Pump, 4.5-oz. Fluid Reservoir, (12) Vacuum Cap Plugs, (7) Tapered Adapters, (2) Tapered Manifold Plugs, (3) Bleed Screw Adapters, and (2) Hoses and Master Cylinder Refill Kit	MV8500	**1XGR6**

WESTWARD · GEARWRENCH

Oil Filter Strap Wrenches

For use in removing spin-on type oil filters. Various styles available to fit most cars, trucks, tractors, and heavy equipment.

Description	Cap.	Brand	Mfr. Model	Item No.
Standard Handle				
Steel Band, 1"W	3/16 to 3¼"	Westward	1EKJ2	**1EKJ2**
Steel Band, 1"W	4 to 4⅜"	Westward	1EKH5	**1EKH5**
Standard Handle with 3-Position Hook				
Steel Band, 1"W	2¾ to 3¾"	Westward	1EKH3	**1EKH3**
Swivel Handle, Pivots 90°				
Steel Band, 1"W	2½" to 2 13/16"	Westward	1EKH7	**1EKH7**
Steel Band, 1"W	2½ to 3"	Gearwrench	3324D	**2ZPL1**
Steel Band, 1"W	2⅞ to 3¼"	Gearwrench	3083D	**2ZPK3**
Steel Band, 1"W	3⅜" to 3¾"	Westward	45JW48	**45JW48**
Steel Band, 1"W	3-1/2to 3⅞"	Gearwrench	3082D	**2ZPK2**
Steel Band, 1"W	3¾" to 4⅜"	Westward	45JW49	**45JW49**
Swivel Handle, Pivots 250°				
Steel Band, 1"W	3⅞ to 4⅜"	Westward	1EKH4	**1EKH4**
Use with ½" Square Drive				
Steel Band, 3"W	3¾ to 4½"	Gearwrench	2320D	**2ZPH4**
Steel Band, 3"W	4½ to 5¼"	Gearwrench	2321	**2ZPH5**
Steel Band, 3"W	5¼ to 5¾"	Gearwrench	2322D	**2ZPH6**
Use With ⅜" Square Drive				
Nylon Band, 1⅛"W	Up to 6"	Westward	1EKE3	**1EKE3**
Use with ½" Square Drive				
Nylon Band, 1⅛"W	Up to 6"	Gearwrench	3149	**2ZPK4**
Use with ⅜" and ½" Square Drive				
Nylon Band, 1½"W	Up to 9"	Gearwrench	3529D	**2ZPN3**


No. 2ZPK2


No. 2ZPH4


No. 2ZPN3


No. 1UBE8


No. 2HLH4

Serpentine Belt Tool Set

WESTWARD · GEARWRENCH

Release tension on belt's spring-loaded idler pulley. Multipositional extension.

Includes	No. of Pieces	Brand	Item No.
Claw Foot Wrenches (⅜" Dr.: 13, 14 and 15mm), Socket Wrenches (⅜" Dr.: 15, 16 and 18mm), Bar (⅜" Dr.:, 23"L x ⅜"W, ¼" Thick), Bar (½" Dr.: 9"L x 1"W, ¼" Thick)	8	Westward	**1UBE8**
Long Bar, ⅜, ½, ¾" Adapters, 13, 14, 15mm Crowsfoot, 13, 14, 15, 16, 17, 18, 19mm 6 pt. Sockets	15	Gearwrench	**2HLH4**

OTC

Universal Belt Tension Gauge

Gauge indicates drive belt tension in newtons and pounds, to help assure maximum belt and bearing life. For use with belts of any length from ¼" to 1"W.

Scale Reads	Mfr. Model	Item No.
30–180 inch lbs.	6673	**2TVU6**



GEARWRENCH

Sensor and Sending Socket Set

8-pc. set is designed to keep handy the tools you need to remove and install oxygen sensors, oil pressure sending units, and vacuum switches.



Includes	Mfr. Model	Item No.
Oil Sensor, Socket Slotted ⅜" Drive PVS, TVS, & O2 Socket, GM Thermal Sensor Switch Socket, Oil Pressure Sending Unit Socket, 2 Oxygen Sensor Sockets, Low Profile Offset Oxygen Sensor Socket, Short Access Socket	41720	**2HLG6**



No. 3T063



No. 45PG66

WESTWARD
OTC
mityvac

Compression Test Equipment

Allow you to perform standard maintenance and diagnostics that can help keep your fleet on the road.

Includes	Mfr. Model	Brand	Item No.
Gasoline Engine			
Compression Tester Gauge with 12" Rubber Hose, 14mm Thread Spark Plug Adapter,18mm Thread Spark Plug Adapter Polished Chrome Gauge and all Chrome Adapters	1MZU3	Westward	**1MZU3**
	5606	OTC	**3T063**
(2) ¾" Gauge with High Impact Lens, Rubber Boot, (4) Scales of Measure (psi, kg/cm2, bar, kPa), 10" Hose, Quick Release Coupler, (2) 14mm Short Thread Adapter, 6½" Hose, (3) 12" Hose, 14mm Long Thread Adapter, 18mm Short Thread Adapter, 18mm Long Thread Adapter, 10mm Thread Small Engine Adapter, 12mm Thread Small Engine Adapter, Quick Release Air Hold Adapter, Custom Blow Molded Case, Field Service Kit	MV5530	Mityvac	**45PG66**

STEELMAN

Electronic Stethoscopes

Sensor tips can be placed directly on a housing to amplify sound while the headphones shut out surrounding noise. Nonconductive microphone will not zap computer circuitry. Flexible-shaft probe reaches into hard-to-reach areas. No. 20C895 EngineEAR® II adds 7-level control for extra sensitivity and reduced distortion.



Description	Mfr. Model	Item No.
TracerEAR® Electronic Stethoscope	06400	**20C893**
EngineEAR Electric Stethoscope	65001	**20C897**
EngineEAR® II Electronic Stethoscopes	06800	**20C895**

OTC

Digital Timing Light

Features a bright LED screen, tachometer display that reads up 9999 rpm, mode indicator light, and a bright xenon flash. Unit has micro-processor-controlled circuitry, 2/4 cycle and RPM advance lights, and one-touch control. Includes removable 6-ft. leads with positive twist lock connector and a carrying case.



Item	Mfr. Model	Item No.
Digital Timing Light Kit	3367	**3CCN4**

WESTWARD
GEARWRENCH
PROTO

Mechanic's Stethoscopes

Diagnostic tools help pinpoint potential trouble spots in noisy engine compartments, blocking the distraction of surrounding sound.



No. 1MZU2

Features	Brand	Mfr. Model	Item No.
Aluminum Steel Proble and Needle	Westward	1MZU2	**1MZU2**
Aluminum Steel Probe and Needle and Shock-Resistant Handle	Gearwrench	835D	**2ZPG5**
Spring Steel Diaphragm and Shock-Resistant Handle	Proto	JFP500A	**6RKV0**

OTC

Barring Socket and Tool

Socket No. 38EG22 helps rotate Mack E7 and Cat 3208 diesel engines. No. 2TVR4's load-bearing collar offers friction-free operation while rotating Cummins B and C series diesel engines and 5.9L diesels. Works with a ½" square drive ratchet or breaker bar.



No. 2TVR4



No. 38EG22

Item	Mfr. Model	Item No.
Engine Barring Socket	6749	**38EG22**
Barring Tool	7471A	**2TVR4**



No. 1UBG2



No. 45JW57

WESTWARD

Piston Ring Tension Bands

Application	Includes	Item No.
Used To Install Pistons 3 ½ To 7", 89mm To 178mm Dia For Trucks And Tractors	4 Spring Steel Tension Bands	**1UBG2**
To Assemble and Disassembe The Piston	Clip Pliers, (6) Metal Bands for Piston Rings 2⅞" to 3⅛", 3⅛" to 3⅜", 3⅜" to 3⅝", 3⅝" to 3⅞", 3⅞" to 4⅛", 4⅛" to 4⅜"	**45JW57**

GEARWRENCH
WESTWARD

Engine Cylinder Hone

Adjustable spring tension and spread limiter help provide positive cutting action to hone and remove glaze. The hone is complete with 240-grit medium grit stones.



No. 2ZPJ9

No. 45FF52

For Use With	Brand	Mfr. Model	Item No.
Engine Cylinders 2" to 7" Diameters Using Medium Grit Stones	Gearwrench	2833D	**2ZPJ9**
For Use With Engine Cylinders	Westward	45FF52	**45FF52**



No. 22A834



No. 416L19



No. 45NU54



No. 45NU67



No. 49AJ29



No. 52GY69



No. 54HD76

OTC

OBD II Auto Scanners

OTC Evolve Professional Diagnostic Tool— Diagnoses drivability issues on virtually any vehicle produced in the last 30 years. Dual Wi-Fi® allows you to check and test components while moving freely around the vehicle with secure connection. Includes wiring diagrams for most vehicles, model years 1986 to present, available directly on the tool. Comes with one-year, renewable diagnostics subscription, which provides updated vehicle coverage. Once subscription expires, all vehicle coverage remains with the tool but the wiring diagrams will no longer function.

- Bravo software and Android™ operating system
- Includes rugged tablet with 10.4-inch screen

OTC Encore Professional Diagnostic Tool— Performs diagnostics and auto-identifies vehicles to help diagnose issues. Touch screen display provides codes and related information, and can also browse the Internet for related info. Comes with one-year, renewable diagnostics subscription, which provides updated vehicle coverage, tests, and resets. Once subscription expires, all vehicle coverage remains with the tool but new coverage updates will cease.

- Android™ operating system
- Rubber overmolded grips
- 8GB internal storage
- Integrated Wi-Fi® and Bluetooth®

Trilingual OBD II ABS and Airbag Scan Tool— Features multilingual menu and definitions with English, Spanish, and French displayed on the LCD. Shows ABS and Airbag codes for most 1996–2013 GM, Ford, Chrysler, Toyota, Honda, Nissan, and Hyundai vehicles. Also monitors battery, alternator, and charging systems. Automatically populates vehicle data for most 2000 and newer vehicles. USB cable included.

OBD II Auto Scanner with CodeConnect®— Displays Diagnostic Trouble Codes (DTCs) and also helps troubleshoot with top-reported fixes specific to vehicle make, model, year, and engine. Also monitors battery, alternator, and charging system.

OBD II Scan Tool Kit—Performs On-Board Diagnostics (OBD) and can relearn and reprogram new or existing replacement sensors.

- OBDII TPMS Device
- Wall Mount Battery Charger
- Carrying Case
- USB Cable
- Bluetooth OBDII Dongle
- RJ45 Cable
- Lithium Battery
- Installation CD
- Relearn Magnet
- Instruction Manual

OBDII PocketScan—Reads OBD II DTCs from the on-board computers of 1996 and newer cars and light trucks. Helps determine the cause of Check Engine lights. Allows the user to clear the DTCs and turn off the Check Engine light once repairs are made.

Battery & Starter/Charger System Tester— For use with OTC Encore and Evolve scan tools. Performs battery and system tests on 6V and 12V automotive batteries, including regular flooded, enhanced flooded, AGM, EV, and start-stop. Creates health reports. Communicates wirelessly with Encore and Evolve software version 2.10 via Bluetooth®.

Description	Mfr. Model	Item No.
OTC Evolve Diagnostic Tool	3896	**54HD76**
OTC Encore Diagnostic Tool	3893	**45NU54**
OBDII, ABS & Airbag Scan Tool	3209	**49AJ29**
Codeconnect® with ABS & Airbag	3210	**52GY69**
OBDII, Tire Pressure Monitoring System (TPMS) Tool	3838	**45NU67**
OBDII PocketScan® Code Reader	CP9125 C	**22A834**
Battery Charging/Starter System Tester	3914	**416L19**



WESTWARD

Antistatic Wrist Band

Wear this 1 megohm antistatic wrist band to help eliminate static electricity while working on electric components. It features a 6-ft. coil cord and alligator clip.

Description	Item No.
Antistatic Wrist Band	**23M591**



No. 45NU89



No. 1EKN4

OTC
WESTWARD

Circuit Testers

Item	Voltage Range	Cord Length	Item No.
OTC			
Circuit Tester	12/24V	24 ft.	**45NU89**
Circuit Tester	6/12V	5 ft.	**45NU91**
Circuit Tester	6/12V	12 ft.	**45NU92**
Westward			
Circuit Tester	6/12/24V	4 ft.	**1EKN8**
Voltage Tester	6 to 24	—	**1EKN4**



No. 1EKN8


No. 4Z581


No. 3Z634

Battery Testers

WESTWARD

Hand-Held Load Testers—Use to test the state and condition of 6 and 12V batteries.

Compact Charging and Starting Tester—Durable all-metal housing with color-coded meter and heavy-duty 18"L cable.

Universal Charging and Starting Tester—This universal 6 and 12V tester features four scales: battery percent of charge, battery load, charging system test, and starting system test. Unit has a heavy-duty steel case and 6-ft. cables with nylon thermo clamps.

Type	Voltage Range	Load Ranges	Works With	Item No.
Hand-Held Load Testers				
Analog	0 to 16V	50 to 100A	6V and 12V Batteries	**22YM05**
Analog	0 to 16V	50 to 125A	6V and 12V Batteries	**22YM06**
Digital	8 to 20V	50 to 125A	12V Batteries	**22YM07**
Compact Charging and Starting Tester				
Analog	4 to 16V	100A	6V and 12V Batteries	**4Z581**
Universal Charging and Starting Tester				
Analog	6 to 12V	200A	6V and 12V Batteries	**3Z634**


No. 45NU82


No. 45NU84

OTC

Battery Load Testers

No. 45NU82 features convenient, portable, and easy-to-read scales and tests batteries on or off the car in just 10 seconds. Determines state-of-charge, cranking, charging volts, and good/bad status. Also includes a load safety switch to prevent arcing.

No. 45NU84 is lightweight and compact and helps to produce more accurate results. Features large, easy-to-read display, ergonomic handle, alternator test lead, and ripple detection light. Determines state of charge and tests battery load, starter and charging system, and alternate ripple.

Type	Voltage Range	Load Ranges	Works With	Mfr. Model	Item No.
Analog	0 to 16V	100A	6V and 12V Batteries	3180	**45NU82**
Analog	0 to 16V	130A	6V and 12V Batteries	3181	**45NU83**
Digital	0 to 16V	131A	6V and 12V Batteries	3182	**45NU84**


No. 45RK03


No. 29RW14

ASSOCIATED

Handheld Battery Tester

Lightweight and simple-to-operate unit tests all battery types. Easy-to-read meters are recessed to provide added protection from damage. Includes stainless steel enclosures and a heavy-duty hanger hook.

Display	Voltage Range	Load Ranges	Mfr. Model	Item No.
Analog	12 to 24V	125A	6024	**45RK03**
Digital	9 to 15	0	12-1012	**29RW14**
Digital	12 to 24V	125A	6030DV	**45RK06**



ASSOCIATED

Carbon Pile Load Tester

Features two large 4.5" analog meters to display amps and volts and a manual adjust control knob. DC test leads are 2.5-ft. 4 AWG cable.

Buzzer sounds after load has been engaged for 15 sec.

Type	Voltage Range	Load Ranges	Works With	Mfr. Model	Item No.
Analog	0 to 16	0 to 500A	6V and 12V Batteries	6034	**29RW02**


No. 2F133


No. 449W35


No. 417Y34

CRC NOCO Zep PROFESSIONAL

Battery Cleaner and Corrosion Protection

Neutralizes acid corrosion and removes dirt and grease accumulation on battery terminals and connectors.

Item	Container Size	Item No.	Pkg. Qty.
CRC			
Battery Cleaner	12 oz.	**2F133**	1
Battery Cleaner with Acid Indicator	12 oz.	**1YHN4**	1
Battery Corrosion Preventative	12 oz.	**2F134**	1
NOCO			
Battery Corrosion Preventative	12 oz.	**417Y34**	1
Battery Cleaner	14 oz.	**417Y36**	1
Zep			
Battery Corrosion Preventative	16 oz.	**43NR98**	12
Battery Cleaner	15 oz.	**449W35**	12


No. 1EFY3


No. 3R556


No. 1VAG2


No. 1EFY1


No. 1EFY6


No. 3YVP5


No. 1EFY2


No. 1EFY7


No. 1EFX3


No. 6Y814


No. 5NEG0

WESTWARD PROTO TOUGH GUY

QUICKCABLE FUNNEL KING Fluid Control Products GEARWRENCH

Battery Tools and Carriers

Description	Brand	Item No.
Battery Maintenance Tools		
4-Way Battery Post and Terminal Cleaner	Westward	**1EFY3**
Battery Post and Terminal Cleaner, 3⅜"L, Plastic Holder	Proto	**3R556**
Curved Scratch Brush, 3 x 7 304 Stainless Steel Fill	Tough Guy	**1VAG2**
Duel-End Battery Brush, 3¾"L, Plastic Holder	Westward	**1EFY1**
Duel-End Battery Brush, 3¾"L, Steel Holder	Westward	**1EFY8**
Side Terminal Brass Brush with 5/16" Hex in Handle	QuickCable	**5NEF8**
Terminal Spreader Cleaning Pliers	Gearwrench	**3YVP5**
Battery Terminal Cleaner, Jaw Spread ⅜" to ⅞"	Westward	**1EFY5**
Top Post Battery Terminal Pullers	Westward	**1EFY2**
Side Terminal Ratchet Wrench, 5/16" Hex Opening, Reversible	Westward	**1EFY6**
Battery Filler with Shutoff Nozzle	Funnel King	**6Y813**
Battery Filler Bulb	Funnel King	**6Y814**
Battery Carriers		
Carrying Strap For Top Post Batteries, Spread Range 16"	Westward	**1EFY7**
Universal Size Battery Carrier, Spread Range 3" to 7"	Westward	**1EFZ2**
Leather Strap Battery Carrier, Spread Range Up to 8½"	Westward	**1EFX3**
Side Lifter with Sidewall Grip Pads, Spread Range 5¼" to 7½"	Westward	**1EFZ1**
Side Lifter with Sidewall Grip Pads, For All Battery Types and Sizes	QuickCable	**5NEG0**







WESTWARD ASSOCIATED BAYCO Buyers Products Company Phoenix USA, Inc.

Booster Cable

Durable, reliable booster cables help get vehicles running when their batteries run down.

Cable Length (ft.)	Max. Amps	Cable Color	Function	Brand	Item No.
Cord Gauge: 1					
12	500	Orange/Black	Standard Jaw	Westward	**23PC95**
	800	Orange/Black	Parrot Jaw	Westward	**5RXF9**
16	500	Orange/Black	Standard Jaw	Westward	**23PC96**
	800	Orange/Black	Parrot Jaw	Westward	**5RXF8**
20	500	Orange/Black	Standard Jaw	Westward	**23PC97**
	800	Orange/Black	Parrot Jaw	Westward	**5RXF7**
	800	Black	Standard Jaw	Associated Equip	**29RW07**
25	800	Orange/Black	Parrot Jaw	Westward	**5RXG2**
	800	Black	Plug-In, Standard Jaw	Associated Equip	**3MKA5**
	800	Black, Blue	Standard	Bayco	**3MJX2**
	800	Black	Standard Jaw	Associated Equip	**29RW08**
Cord Gauge: 1/0					
15	800	Black	Standard Jaw	Associated Equip	**45RK15**
Cord Gauge: 2					
20	500	Orange/Black	Parrot Jaw	Westward	**5RXF4**
	500	Black	Parrot Jaws	Bayco	**3VRZ8**
Cord Gauge: 4					
16	285	Orange/Black	Standard Jaw	Westward	**5RXG3**
	400	Orange/Black	Standard Jaw	Westward	**5RXF6**
	400	Black, Blue	Parrot Jaws	Bayco	**3VRZ7**
20	400	Orange/Black	Standard Jaw	Westward	**5RXF2**
	400	Black, Orange	Plug-In, Standard Jaw	Westward	**23PC98**
	400	Orange/Black	Parrot Jaw	Westward	**5RXF3**
	500	Black, Blue	Parrot Jaws	Bayco	**3MJW7**
25	205	Orange/Black	Standard Jaw	Westward	**5RXG5**
	400	Black, Orange	Plug-In, Standard Jaw	Westward	**5RXF5**
28	600	Gray	Plug-In, Standard Jaw	Buyers Products	**46MN71**
	600	Blue	Plug-In, Standard Jaw	Buyers Products	**46MN72**
Cord Gauge: 4					
20	500	Black	Standard Jaw	Associated Equip	**11Z393**
30	1250	Orange	Plug-In, Standard Jaw	Phoenix	**3MKE4**
Cord Gauge: 5					
12	400	Black	Standard Jaw	Associated Equip	**11Z390**
	500	Black	Standard Jaw	Associated Equip	**11Z391**
15	500	Black	Standard Jaw	Associated Equip	**11Z392**
Cord Gauge: 6					
16	200	Orange/Black	Standard Jaw	Westward	**5RXG7**
Cord Gauge: 8					
12	200	Orange/Black	Standard Jaw	Westward	**5RXG1**
	250	Orange/Black	Standard Jaw	Westward	**5RXG4**
Cord Gauge: 10					
12	200	Orange/Black	Standard Jaw	Westward	**5RXG6**

Welding Cable

WESTWARD

- 600V max.
- Neoprene insulation

Wire Size	Length	Black Item No.	Red Item No.
1/0	10 ft.	**19YE06**	**19YE33**
	25 ft.	**19YE07**	**19YE34**
	100 ft.	—	**19YE35**
2/0	10 ft.	**19YE09**	—
	25 ft.	**19YE10**	**19YE37**
2 AWG	10 ft.	**19YD99**	—
	25 ft.	**19YE01**	—
3/0	25 ft.	**19YE13**	—
	100 ft.	**19YE14**	—
4/0	25 ft.	**19YE16**	**19YE43**
	100 ft.	**19YE17**	**19YE44**
4 AWG	25 ft.	**19YD97**	**19YE25**
6 AWG	25 ft.	**19YD94**	**19YE22**



APP Anderson Power Products QUICKCABLE



SB Connectors and Contacts

Tin-plated electrolytic copper contacts offer low resistance and high conductivity. Annealed barrel ensures even crimping. Connectors are male/female, with 1-pc., impact-resistant polycarbonate housings. Solid barrel contacts are flared for easy insertion of stripped wire or cable, and supported by tempered stainless steel leaf springs to maintain constant pressure and vibration resistance.

Description	Wire Size (AWG)	Max. Wire Dia. (in.)	Cable Well Depth (in.)	Amps	Color	Cross-Ref. to Brad Harrison	Cross-Reference to SMH	Item No.
Anderson Power Products								
SB Connectors								
2-Pole	1/0	0.437"	0.75	175	Blue	49120	SY6326G1	**3BY24**
2-Pole	1/0	0.437"	0.75	175	Gray	49110	SY6325G1	**3BY23**
2-Pole	1/0	0.437"	0.75	175	Red	49150	SY6329G1	**3BY25**
2-Pole	2/0	0.484"	1.10	350	Blue	49220	SY6321G1	**3BY27**
2-Pole	2/0	0.484"	1.10	350	Gray	49210	SY6320G1	**3BY26**
2-Pole	2/0	0.484"	1.10	350	Red	49250	SY6322G1	**3BY28**
2-Pole	4	0.298"	0.75	120	Gray	—	SY6330G4	**3BY22**
2-Pole	6	0.221"	0.44	50	Gray	49010	SY6319	**3BY20**
2-Pole	6	0.221"	0.44	50	Red	49050	SY6331G1	**3BY21**
Quick Cable								
SB Connector Contacts								
Crimp Type	1/0	—	—	175	Silver	—	—	**5NEH6**
Crimp Type	2	—	—	175	Silver	—	—	**5NEH5**
Crimp Type	2/0	—	—	350	Silver	—	—	**5NEH7**
Crimp Type	4	—	—	175	Silver	—	—	**5NEH4**
Crimp Type	6	—	—	50	Silver	—	—	**5NEH3**

Grote The first name in vehicle safety systems. WESTWARD

Booster Cable Connective Ends and Caps



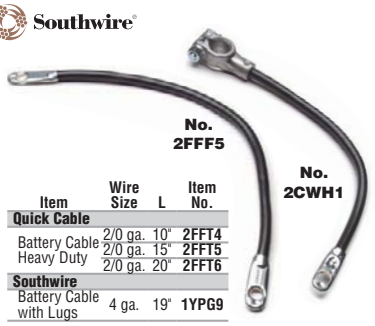


Style	Gauge	Max. Amps	Color	Item No.
Westward				
Light-Duty Connector, Plug-In Style	12 to 10	50A	Red	**23PC33**
	12 to 10	50	Gray	**23PC31**
Medium-Duty Connector, Plug-In Style	2	175	Blue	**23PC37**
	1/0	150	Red	**23PC34**
Heavy-Duty Connector, Plug-In Style	2/0	350	Red	**23PC35**
	2/0	350	Gray	**23PC32**
Grote				
Plug-In Cap	—	50A	Black	**2FGC3**
	—	175A	Black	**2FFR7**
	—	350A	Black	**2FGC4**

Grote The first name in vehicle safety systems. QUICKCABLE Southwire

Battery Cables

- Resist water, grease, sunlight, and abrasion
- PVC jacket



Item	Wire Size	L	Item No.
Grote			
Switch to Starter Cable	1 ga.	10"	**2FFU9**
	4 ga.	10"	**2FFF5**
	4 ga.	15"	**2FFF6**
Battery Cable	4 ga.	14"	**2CWH1**
	4 ga.	25"	**2CWH3**
	4 ga.	53"	**2CWH5**

Item	Wire Size	L	Item No.
Quick Cable			
Battery Cable Heavy Duty	2/0 ga.	10"	**2FFT4**
	2/0 ga.	15"	**2FFT5**
	2/0 ga.	20"	**2FFT6**
Southwire			
Battery Cable with Lugs	4 ga.	19"	**1YPG9**

Battery Jumper Cable

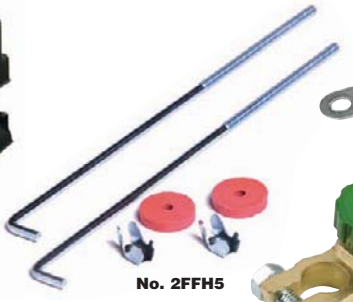
WESTWARD



L	Max. Amps	Wire Color	Item No.
Wire Gauge: 4 ga.			
25ft.	60	Black	**19YD46**
	60	Red	**19YD73**
Wire Gauge: 2 ga.			
25ft.	94	Black	**19YD49**
	94	Red	**19YD76**
100 ft.	94	Black	**19YD50**
Wire Gauge: 1/0 ga.			
25ft.	150	Black	**19YD55**
	150	Red	**19YD82**
Wire Gauge: 2/0 ga.			
25ft.	190	Black	**19YD58**
25 ft.	190	Red	**19YD85**
100 ft.	190	Black	**19YD59**
	190	Red	**19YD86**
Wire Gauge: 3/0 ga.			
100 ft.	239	Red	**19YD89**
Wire Gauge: 4/0 ga.			
100 ft.	302	Black	**19YD65**



No. 49EJ88


No. 2FFH5


No. 5NFD5


Marine Clamp
No. 2FDV6


Side Terminal Clamp
No. 2CWT2


No. 3BY29


Quick Disconnect
No. 2FDX8


No. 2CWR1


No. 23PC80

QUICKCABLE Grote WESTWARD APP

Battery Accessories

Description	Brand	Item No.	Pkg. Qty.
3-Way Terminal Clamp			
Lead, Positive/Negative Polarity	Quick Cable	**2FDY5**	2
Alligator Clamps			
2 x 16 ga. 30" Red/Black	Grote	**2FGB9**	2
Automotive Battery Boxes			
Battery Box,Black,10" Lx7-5/8" W	Quick Cable	**49EJ88**	1
Battery Box,Black,13-1/2" L x 9¼" W	Quick Cable	**49EJ89**	1
Battery Box,Black,16-1/8" L x9-5/8" W	Quick Cable	**49EJ90**	1
Battery Box,Black,17-3/4" L x10-1/4" W	Quick Cable	**49EJ91**	1
Battery Box,Black,26-3/4" Lx14" W	Quick Cable	**49EJ94**	1
Battery Box,Black,46-1/2" Lx18-1/4"W	Quick Cable	**49EJ86**	1
Battery Hold Down			
Adjustable 5½ to 9"	Quick Cable	**5NFH1**	1
Hold Down Set, J Bolts, 10"L	Grote	**2FFH5**	2
Ground Strap			
4 ga., 12" Length	Quick Cable	**5LNJ7**	2
4 ga., 18" Length	Grote	**2FFT3**	1
4 ga., 18" Length	Quick Cable	**5LNJ8**	2
4 ga., 24" Length	Quick Cable	**5NFD5**	2
4 ga., 8" Length	Quick Cable	**5LNJ5**	2
Marine Clamps			
Copper/Lead, Negative Polarity	Quick Cable	**5LMP5**	1
Lead, Negative Polarity	Quick Cable	**2FDV8**	1
Lead, Positive Polarity	Quick Cable	**2FDV6**	1
Military Clamps			
Lead, Negative Polarity	Grote	**2FFZ7**	5
Lead, Positive Polarity	Grote	**2FFZ8**	5
Quick Disconnect			
Copper/Brass, Negative Polarity	Quick Cable	**2FDX8**	1

Description	Brand	Item No.	Pkg. Qty.
SB Accessory			
Connector Handle, For Use with 175 and 350A Connectors	Anderson Power Products	**3BY29**	1
Side Terminal Clamps			
Lead, 6 to 2/0 ga.	Grote	**2CWT2**	2
Standard Battery Clamps			
Brass, 6 to 2/0 ga.	Grote	**2CWR1**	1
Lead, 1 ga. to 4/0 ga.	Grote	**2FFJ6**	2
Lead, 6 to 2/0 ga.	Grote	**2FEZ1**	25
Lead, 6 to 2/0 ga.	Grote	**2FFJ2**	2
Lead/Epoxy, 6 to 2/0 ga., Red and Black Color Code	Grote	**2FDY3**	2
Terminal Cap			
Battery Terminal Protector 1/0 to 2/0 AWG-Red	Quick Cable	**2FEV6**	5
Battery Terminal Protector 1 to 2 AWG-Red	Quick Cable	**2FEV2**	5
Nut, Closed Cap for Group 31	Quick Cable	**2FEY8**	25
Straight Clamp Terminal Protector 1/0 to 2/0 AWG-Black	Quick Cable	**2FEU5**	5
Straight Clamp Terminal Protector 1/0 to 2/0 AWG-Red	Quick Cable	**2FEU7**	5
Test Clamp			
Test Clip - 25 Amp	Quick Cable	**2FDW1**	2
Washers, Top Post, Felt			
Protective Washer Top Post	Quick Cable	**2FGC5**	100

Gauge	Color Code	NEGATIVE Pkg. of 1 Item No.	NEGATIVE Pkg. of 5 Item No.	POSITIVE Pkg. of 1 Item No.	POSITIVE Pkg. of 5 Item No.
WESTWARD, Battery Terminal Straight Copper Material					
2/0 ga.	Orange	**23PC55**	**23PC79**	**23PC56**	**23PC80**
1/0 ga.	Black	—	**23PC77**	—	**23PC78**


No. 5NFK4

QUICKCABLE

Insulated Lug Crimpers

Insulated, lever-style lug crimpers feature adjustable color-coded rotating crimp dies and insulated grips.

Description	Mfr. Model	Item No.
Insulated Crimpers		
6 to 4/0 Cap. (AWG)	307101-525-001	**5NFK4**
8 to 1/0 Cap. (AWG)	4245-360-001	**2FEG1**
Cable Cutter		
Up to 6/0 ga.	4285-525-001	**5LMC6**


No. 2FEG1


No. 23YZ03

WESTWARD

Battery Lugs

Gauge	Stud Size	Pkg. of 2 Item No.	Pkg. of 25 Item No.
1	⅜"	**23YY99**	—
1/0	⅜"	**23YZ02**	**23YZ28**
	½"	**23YZ03**	—
2	¼"	**23YY94**	**23YZ21**
	5/16"	**23YY95**	**23YZ22**
	⅜"	**23YY96**	**23YZ23**
2/0	⅜"	**23YZ04**	**23YZ30**
	½"	**23YZ05**	**23YZ31**
3/0	⅜"	**23YZ06**	—
	½"	**23YZ07**	—
4	¼"	**23YY90**	—
	5/16"	**23YY91**	**23YZ18**
	⅜"	**23YY92**	**23YZ19**
4/0	⅜"	**23YZ34**	—
	½"	**23YZ09**	**23YZ35**
6	¼"	**23YY86**	**23YZ13**
	5/16"	**23YY87**	**23YZ14**
	⅜"	**23YY88**	**23YZ15**


No. 4NGV3


No. 4NGT8


No. 21DH99

Battery Disconnect Switches

Battery Doctor VELVAC

Use to quickly disconnect batteries to prevent battery drain, theft, tampering, and unauthorized use; help improve the safety of stored vehicles.

Switch Type	Connector Type	Stud Size	Connec. Material	Includes	Item No.
Battery Doctor					
In-Line Knife Blade	In-Line	10mm	Copper	—	**4NGU2**
In-Line Rotary	In-Line	10mm	Copper	Weather-Resistant Cover, Key	**4NGV3**
In-Line Rotary	In-Line	10mm	Copper	2 Keys and Cover	**4NGU6**
In-Line Rotary	Stud	10mm	Silver Plated Copper	Lockout / Mounting Bracket	**34RD22**
In-Line Rotary	—	10mm	Copper	—	**6TXD8**
Top Post Knife Blade	Negative	⅜"	Brass/Copper	—	**4NGT8**
Top Post Knife Blade	Negative	5/16-18	Brass/Copper	Wing Nut	**4NGT9**
Top Post Rotary	Negative	—	Zinc	—	**4NGU3**
Velvac					
Single Pole	—	—	—	—	**21DH99**

Wheeled Battery Chargers

DSR RACE-DRIVEN TECHNOLOGY

ProSeries chargers are designed for professional battery maintenance and emergency starting.

Automatic—Features precision timer-controlled or 40A continuous manual operation (requires monitoring). A microprocessor controller charges all battery types, performs tests and deep discharge recovery, and charges and aids with safe battery maintenance.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Timer	Mfr. Model	Item No.
Automatic								
Boosting, Charging, Maintaining	6, 12	AGM, Deep Cycle, Gel	50A @ 12V	250A @ 12V, 125A @ 6V	Auto On/Off	No	DSR131	**485C79**
	6, 12	AGM, Deep Cycle, Gel	50A @ 12V	20A @ 12V	Auto On/Off	No	DSR121	**485C80**
	6, 12	AGM, Deep Cycle, Gel	50A @ 12V	275A/15A @ 12V, 125A/15A @ 6V	Auto On/Off	No	DSR122	**485C81**
	12, 24	AGM, Deep Cycle, Gel	250A @ 12V, 150A @ 24V	50A @ 12V	Auto On/Off	No	DSR123	**485C82**
	6, 12, 24	AGM, Deep Cycle, Gel	50A @ 12V, 50A @ 6V	330A @ 12V, 250A @ 24V, 300A @ 6V	Auto On/Off	No	DSR124	**485C83**



No. 485C81

Wheeled Battery Chargers

ASSOCIATED

- "Safe in any weather" operation

Manual and Automatic—Clamp bars provide a storage spot for additional safety. Fan cooling mechanism prevents overheating and extends product life. Each model has an automatic electric timer and auto reset circuit breakers.

Smart—Fully automatic smart devices can safely charge, test, perform deep discharge recovery, and maintain most types of automotive batteries, and identify weak or defective batteries. Proprietary technology lets you use the unit as a stable power supply to support the battery electrical system during diagnostics or vehicle reflashes. No. 45RK19 features quick-disconnect DC leads to change from standard clamp cables to an extra-long NATO plug.

Charger Function	For Battery Voltage	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Timer	Mfr. Model	Item No.
Automatic							
For Use With AGM, Deep Cycle, Gel, Lead Acid Batteries							
Boosting, Charging, Maintaining	6, 12	270A @ 12V	60A @ 12V, 70A @ 6V	Smart	Microprocessor Controlled	ESS6008	**29RV97**
	12	130A @ 12V	45A @ 12V	Smart	Microprocessor Controlled	ESS6007B	**29RV91**
	6, 12	270A @ 12V	60A @ 12V, 70A @ 6V	Smart	Microprocessor Controlled	ESS6008MSK	**29RV98** *
	12, 24	200A @ 12V, 200A @ 24V	70A @ 12V, 30A @ 24V	Smart	Microprocessor Controlled	ESS6011	**29RW19**
	12, 24	200A @ 12V, 200A @ 24V	70A @ 12V, 30A @ 24V	Smart	Microprocessor Controlled	MIL6011	**45RK19**
For Use With AGM, Lead Acid Batteries							
Boosting, Charging	6, 12	265A @ 12V	60A @ 12V, 70A @ 6V	Timer	Yes	6009AGM	**55CN45**
	6, 12	250A @ 12V	60A @ 12V, 70A @ 6V	Timer	Yes	6012AGM	**55CN46**
	6, 12, 24	280A @ 12V	65A @ 12V, 30A @ 24V, 70A @ 6V	Timer	Yes	6006AGM	**55CN44**
For Use With Lead Acid Batteries							
Boosting, Charging	6, 12	375A @ 12V, 375A @ 6V	75A @ 12V, 100A @ 6V	Timer	Yes	6001A	**29RV90**
	6, 12, 18, 24	400A @ 12V	80A @ 12V, 40A @ 24V, 100A @ 6V, 50A @ 18V	Timer	Yes	6002B	**11Z379**
Boosting, Charging, Maintaining	6, 12	330A @ 12V, 330A @ 6V	40A/10A @ 12V, 40A @ 6V	Timer	Yes	US20	**29RV96**
Manual							
For Use With AGM, Deep Cycle, EFB, Gel, Lithium Batteries							
Boosting, Charging, Maintaining	12	270A @ 12V	60A @ 12V	Smart	Microprocessor Controlled	IBC6008	**55CN47**
	12	270A @ 12V	60A @ 12V	Smart	Microprocessor Controlled	IBC6008MSK	**55CN48** *
For Use With Lead Acid Batteries							
Boosting	12	10A @ 12V	10A @ 12V	Manual On/Off	No	6127XL	**40GL85**

**** 15/20 Amp Memory Saver Port & ODBII Cable.***



No. 29RV90



No. 45RK19



No. 40GL85

Schumacher ELECTRIC

Wheeled Battery Chargers

Microprocessor-controlled chargers boost, charge, and maintain batteries in fleet garages and shops. They are designed for rugged use and extreme engine starting, with reverse hookup protection, a heavy-duty transformer, and steel case with handle. Float mode monitoring automatically maintains best battery charge. Multistage charging provides added precision and safety and helps extend battery life.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Timer	Mfr. Model	Item No.
Boosting, Charging	12	AGM, Deep Cycle, Lead Acid	40A @ 12V, 40A @ 6V	6A/2A @ 12V	Smart	Microprocessor Controlled	SC1353	**444N26**



WESTWARD PROTO®

Wheeled Battery Chargers

Automatic—Auto On/Off charge-type units are for boosting, charging, and maintaining your equipment. For use with AGM and lead acid batteries. Designed for indoor use and include alligator clips.

Manual—Features automatic 90-minute timer with hold position and innovative Stop/Go light. Fan-cooled AC and DC circuit overload protection. Includes heavy duty chrome handle.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Timer	Brand	Mfr. Model	Item No.
Automatic									
Boosting, Charging, Maintaining	6, 12	AGM, Lead Acid	200A @ 12V, 130A @ 6V	20/40A @ 12V, 40A @ 6V	Auto On/Off	Yes	Westward	473X75	**473X75**
	6, 12	AGM, Lead Acid	250A @ 12V, 185A @ 6V	60A @ 12V, 60A @ 6V	Auto On/Off	Yes	Westward	473X76	**473X76**
	6, 12, 24	AGM, Lead Acid	225A @ 12V, 160A @ 6V	60A @ 12V, 30A @ 24V, 60A @ 6V	Auto On/Off	Yes	Westward	473X77	**473X77**
Manual									
Charging	6, 12, 24	Lead Acid	280A @ 12V	75A/65A/30A @ 12V, 75A/65A/30A @ 24V, 75A/65A/30A @ 6V	Manual On/Off	Automatic	Proto	JFEH6006	**6RKL3**



No. 473X75



No. 6RKL3


No. 473X78


No. 5RXF1

Benchtop Battery Chargers

WESTWARD

Manual—A 2-position slide switch selects 6 or 12V charge.

Automatic—Equipped with ammeter and short circuit/overload/reverse polarity protection. Three selectable charge modes (Function, Battery Voltage, Battery Charge Type).

Nos. 1JYU8 and 1JYU9 have an Auto On/Off option for 12V charging that shuts the unit off when it senses the battery has reached full charge.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Cable Length	AC Cord Length	W	H	D	Item No.
Automatic											
Boosting, Charging	6, 12	AGM, Deep Cycle, Lead Acid	55A @ 12V	10A @ 12V, 10A @ 6V	Auto On/Off	6 ft.	6 ft.	9½"	5"	6½"	**1JYU8**
	6, 12	AGM, Deep Cycle, Lead Acid	100A @ 12V	15A @ 12V, 15A @ 6V	Auto On/Off	6 ft.	6 ft.	9½"	5"	6½"	**1JYU9**
Boosting, Charging, Maintaining	6, 12	AGM, Lead Acid	150A @ 12V	30A/2A @ 12V, 30A/6A @ 6V	Auto On/Off	6 ft.	6 ft.	10½"	6½"	9½"	**473X78**
Charging	6, 12, 24	AGM, Deep Cycle, Gel, Lead Acid	—	10/20A @ 12V, 10A @ 24V, 10/20A @ 6V	Float	6 ft.	6 ft.	10"	5"	6"	**5RXF1**
Charging, Maintaining	12, 24	AGM, Lead Acid	—	10A @ 12V, 5A @ 24 V	Auto On/Off	6 ft.	6 ft.	9½"	5"	6½"	**473X79**
	6, 12	AGM, Lead Acid	—	6A/2A @ 12V, 6A @ 6V	Auto On/Off	6 ft.	6 ft.	9½"	5"	6½"	**473X80**
Manual											
Boosting, Charging	6, 12	AGM, Lead Acid	100A @ 12V	15A @ 12V, 15A @ 6V	Manual On/Off	6 ft.	6 ft.	9½"	5"	6½"	**1JYU6**


No. 417Z02

No. 417Y99



DSR RACE-DRIVEN TECHNOLOGY

Benchtop Battery Chargers

Microprocessor-controlled, auto speed hybrid charger has self-adjusting, variable charge rates and float mode monitoring. Display gives a digital indication of voltage, % of charge or alternator output.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Cable Length	AC Cord Length	W	H	D	Item No.
Automatic											
Boosting	12	AGM, Gel, Lead Acid	70A @ 12V	70A/20A/4A @ 12V	Smart	6 ft.	9 ft.	17⅞"	17⅞"	17³⁹⁄₆₄"	**417Z02**
Boosting, Charging, Maintaining	6, 12	AGM, Gel, Lead Acid	125A @ 12V	40A/10A @ 12V, 40A/10A @ 6V	Smart	8 ft.	7 ft.	10⅜"	10⅜"	9⅝"	**417Y99**


No. 444N33


No. 444N36


No. 444N35


No. 444N27

Benchtop Battery Chargers

Schumacher ELECTRIC

Fully automatic, professional microprocessor-controlled devices have Auto-Off to help prevent damage. Float-mode monitoring helps maintain optimum charge. Starter/chargers are designed for rugged use auto-adjusts amperage rate based on battery size and features multistage charging and float-mode monitoring. Reverse hookup protection with LED flash.

Charger Function	For Battery Voltage	For Use With Battery Type	Boost Amps @ Voltage	Charging Amps @ Voltage	Charge Type	Cable Length	AC Cord Length	W	H	D	Item No.
Automatic											
Boosting, Charging, Maintaining	12	AGM, Lead Acid	50A @ 12V	50A/10A/2A @ 12V	Smart	7 ft.	7 ft.	11⅛"	10½"	5½"	**444N33**
	12	AGM, Deep Cycle, Lead Acid	85A @ 12V, 85A @ 6V	20A @ 12 V	Smart	7 ft.	7 ft.	10²⁵⁄₆₄"	10⅞"	7⅛"	**444N34**
	12	AGM, Deep Cycle, Lead Acid	100A @ 12V	30A @ 12V	Smart	7 ft.	7 ft.	10²⁵⁄₆₄"	10⅞"	7⅛"	**444N35**
Charging, Maintaining	6, 12	AGM, Deep Cycle, Lead Acid	—	6A @ 12V	Smart	7½ ft.	7 ft.	8"	9⅜"	3⅛"	**444N32**
	6, 12	AGM, Deep Cycle, Lead Acid	10A @ 12V	15A @ 12V, 15A @ 6V	Smart	7½ ft.	7 ft.	10½"	7¾"	3⅝"	**444N36**
Maintaining	6, 12	AGM, Deep Cycle, Lead Acid	—	1.5A @ 12V, 1.5A @ 6V	Smart	5³⁹⁄₆₄ ft.	7 ft.	7"	5⅛"	3⅜"	**444N27**


No. 10W833


No. 10W824


No. 10W832

No. 10W823



No. 10W828



Battery Chargers, Maintainers, and Charging Stations

Battery Tender

Charger Maintainers—Fully automatic, microprocessor-controlled devices fully charge batteries and then automatically switch to maintenance mode. For use with AGM, lead acid, and wet cell batteries.

Bank Charging Stations—Designed to simultaneously charge and/or maintain multiple 12V batteries, with independent charging banks.

Description	Charging Amps @ Voltage	Maintaining Amps @ Voltage	Cable Length	AC Cord Length	Mfr. Model	Item No.
Benchtop Chargers, Maintainers						
Power Tender™	5A @ 12V	5A @ 12V	4½ ft.	6 ft.	022-0157-1	**10W833** *
Power Tender™	2.5A @ 24V	2.5A @ 24V	4½ ft.	6 ft.	022-0158-1	**10W834** *
Handheld Portable Chargers, Maintainers						
800 Waterproof	0.8A @ 12V	0.80A @ 12V	4½ ft.	6 ft.	022-0150-DL-WH	**10W824** *
Power Tender™	5A @ 12V	5A @ 12V	4½ ft.	6 ft.	022-0186G-DL-WH	**10W832**
Surface Mount	1.25A @ 12V	1.25A @ 12V	4½ ft.	6 ft.	022-0185G-DL-WH	**19XM26**
Mounted Chargers, Maintainers						
Junior	0.75A @ 12V	0.75A @ 12V	10½ ft.	6 ft.	021-0123	**10W823**
Bank Charging Stations						
2-Bank	1.25A @ 12V	1.25A @ 12V	4½ ft.	6 ft.	022-0165-DL-WH	**10W828**
4-Bank	1.25A @ 12V	1.25A @ 12V	4½ ft.	6 ft.	022-0148-DL-WH	**10W829**
5-Bank	4A @ 12V	4A @ 12V	4½ ft.	7 ft.	021-0133 DL-WH	**10W830**
10-Bank	4A @ 12V	4A @ 12V	4½ ft.	7 ft.	021-0134 DL-WH	**10W831**

** Water-, vibration-, and shock-resistant.*

Battery Chargers and Maintainers

Microprocessor-controlled and fully automatic, with LED indicators and 4-stage charging to help increase cycle life.


No. 48VF14


No. 417Y65


No. 444N28


No. 5RXF0

For Battery Voltage	Charger Style	Charging Amps @ Voltage	Maintaining Amps @ Voltage	Charge Type	Automatic/ Manual	Cable Length	Cable Gauge	Includes	W	H	D	Item No.
Battery Doctor												
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Wet Cell												
6, 12	Mounted	1.5A @ 12V, 1.5A @ 6V	1.5A @ 12V, 1.5A @ 6V	Smart	Automatic	6 ft.	12 AWG	Mounting Brackets	5"	3½"	1½"	**34UH62**
12, 24	Handheld Portable	8A/4A @ 12V, 8A/4A @ 24V	8A/4A @ 12V, 8A/4A @ 24V	Smart	Automatic	6 ft. 6"	14 AWG	Ring Terminals and Alligator Clips	4½"	7½"	2½"	**48VF14**
NOCO												
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell												
6, 12	Handheld Portable	1.1A @ 12V, 1.1A @ 12V	1.5A @ 12V, 1.5A @ 6V	Smart	Automatic/Manual	5 ft.	18 AWG	—	9 13/64"	2 13/32"	2 13/32"	**417Y60**
12	Handheld Portable	20A @ 12 V	10A @ 12V, 10A @ 6V	Smart	Automatic/Manual	6 19/64 ft.	14 AWG	—	6 13/32"	3 7/64"	3 7/64"	**417Y65**
12, 24	Handheld Portable	15A @12V, 15A @ 24V	15A @ 12V	Smart	Automatic/Manual	6¼ ft.	16 AWG	—	4 51/64"	2 51/64"	2 51/64"	**417Y58**
24	Handheld Portable	40A @ 24V	40A @ 12V, 40A @ 6V	Smart	Automatic/Manual	6 21/64 ft.	12 AWG	—	10 51/64"	3 29/32"	3 29/32"	**417Y68**
36	Handheld Portable	26A @ 36V	30A @ 12V, 30A @ 6V	Smart	Automatic/Manual	6 21/64 ft.	12 AWG	—	10 51/64"	3 29/32"	3 29/32"	**417Y69**
48	Handheld Portable	20A @ 48V	20A @ 24V	Smart	Automatic/Manual	6 21/64 ft.	12 AWG	—	10 51/64"	3 29/32"	3 29/32"	**417Y70**
For Use With Battery Type: AGM, Deep Cycle, Lead Acid, Lithium, Wet Cell												
12, 24	Handheld Portable	26A @ 12V, 13A @ 24V	30A @ 12V, 30A @ 6V	Smart	Automatic/Manual	6¼ ft.	16 AWG	—	5 45/64"	3 13/64"	3 13/64"	**417Y59**
Schumacher Electric												
For Use With Battery Type: AGM, Deep Cycle, Lead Acid												
6, 12	Benchtop	1.5A @ 12V	1.5A @ 12V	Smart	Automatic	1½ ft.	18 AWG	Charger, manual	5⅞"	9⅛"	1⅞"	**444N28**
Westward												
For Use With Battery Type: AGM, Gel, Lead Acid												
24	Mounted	5A @ 24V	2A @ 24V	Float	Automatic	6 ft.	18 AWG	Ring Terminals, Alligator Clips, Cigarette Adapter	4"	8"	2½"	**5RXF0**

Solar Battery Charger Maintainers and Controller

Completely automatic portable devices monitor and maintain a battery at full charge, with choice of bulk, absorption, or storage/float mode. No. 10W842 is designed to convert any 5 to 45W solar panel into a solar charger maintainer.


No. 10W840


No. 10W842

Charging Amps @ Voltage	Maintaining Amps @ Voltage	Mfr. Model	Item No.
Charger Maintainer with Built-in Charger Controller			
0.3A @ 12V	0.27A @ 12V	021-1163	**10W839**
0.55A @ 12V	0.54A @ 12V	021-1164	**10W840**
0.9A @ 12V	0.83A @ 12V	021-1165	**10W841**
Charger Maintainer Controller			
—	—	021-1162	**10W842**

Solar Battery Maintainer, Charger Maintainers, and Controller

Devices are designed to help keep 12V lead-acid batteries fully charged without electricity. Quick-disconnect 50A battery clip cable assembly and quick-disconnect 12V accessory plug cable assembly included. No. 14N888 built-in blocking diode helps protect against battery discharge at night.

No. 16W542 helps to protect batteries against overcharge and discharge while being charged from a solar panel, and to automatically assure a full charge. It is included with No. 14N888.


No. 14N886


No. 16W542

Charge Type	Amps	Automatic/ Manual	Mfr. Model	Item No.
Battery Charge Maintainer				
Manual On/Off	138mA	Manual	SP-200	**14N886**
Charger Maintainer				
Manual On/Off	260mA	Manual	SP-400	**14N887** *
Charger Maintainer with SPC-7A Controller				
Smart	850mA	Automatic	SP-1500	**14N888**
Charge Controller				
—	Up to 7A of Solar Array Current	Automatic	SPC-7A	**16W542**

**** No. 16W542 Solar Charge Controller recommended, sold separately.***

Portable Jump Starters/ Power Packs with USB Charger

Convenient units quickly jump start vehicles in emergency situations and can also be used to recharge USB devices like smartphones and tablets. Feature sparkproof connections and reverse polarity connections. All units include a LED task/emergency light except DSR ProSeries models.


No. 49AK27


No. 417Y84


No. 6RKL4


No. 444N19


No. 49EK03


No. 444N20

For Battery Voltage	Amp Hours	Boost Amps @ Voltage	Charge Type	Cable Length	Cable Gauge	Includes	W	H	D	Mfr. Model	Item No.
DSR Proseries											
For Use With Battery Type: AGM, Gel, Lead Acid											
12	—	450A @ 12V	Smart	12"	#8 AWG	Clamp	9⅜"	3⅜"	6½"	DSR108	**49AK27**
NOCO											
For Use With Battery Type: Lead Acid											
12	1000Ah	1000A @ 12V	USB	19½"	16 ga.	Impact-Resistant Case, Reverse Polarity, Override Capability, Spark Proof, Built In USB Port, LED Flashlight	7 45/64"	1 45/64"	3 13/64"	GB40	**417Y83**
	4000Ah	1000A/250A @ 12V	USB	19½"	16 ga.		12 13/32"	2 45/64"	5"	GB150	**417Y85**
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell											
12	400Ah	1000A @ 12V	USB	19½"	16 ga.	Impact-Resistant Case, Reverse Polarity, Override Capability, Spark Proof, Built In USB Port, LED Flashlight	7 45/64"	1 45/64"	3 13/64"	GB20	**417Y82**
	2000Ah	1000A @ 12V	USB	19½"	16 ga.		8 51/64"	2½"	3 29/32"	GB70	**417Y84**
Proto											
For Use With Battery Type: Lead Acid											
12	9Ah	900A/250A @ 12V	Manual On/Off	27"	#4 AWG	Jump Starter, Wall Charger	7½"	#4 AWG	27"	JFE5120	**6RKL4**
Quick Cable											
For Use With Battery Type: Lead Acid, Lithium											
5, 12	—	600A/400A @ 12V	Smart	1 ft.	8 ga.	USB to Micro-USB Charging Cord, Adapters, Carrying Case	8½"	5¼"	22 5/8"	604022	**49EK03**
Schumacher Electric											
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Wet Cell											
12	3.2Ah	1000A @ 12V	Smart	15"	10 ga.	Clamp Adapter, USB to Micro USB Adapter, Wall Charger, Storage Bag	7⅞"	10¾"	2¾"	SL1316	**444N19**
	2.5Ah	600A/400A @ 12V	Smart	15"	10 ga.	Smart Cable/Clamp, USB to Micro USB Charging Cable, Storage Bag	4⅜"	8"	3"	SL1314	**444N20**
	3.1Ah	800A @ 12V	Smart	25"	8 ga.		7⅞"	10⅝"	2 41/64"	SL1327	**444N21**
	4.6Ah	1000A @ 12V	Smart	25"	8 ga.		7⅞"	10⅝"	2 41/64"	SL1317	**444N22**



No. 450G83

WESTWARD

Jump Starters and Portable Power Sources

Jump Starters and Portable Power Source—Powered by sealed, lead-acid batteries to charge and jump-start batteries; charge with heavy-duty clamps. Each includes wall charger and DC-to-DC charger.

Automatic/ Manual	For Battery Voltage	Boost Amps @ Voltage	Cold Cranking Amps @ Voltage	Amp Hours	Cable Gauge	Cable Length	Item No.
For Use With Battery Type: AGM							
Automatic	12, 24	2000A @ 12V, 2000A @ 24V	800A/600A @ 12V, 800A/600A @ 24V	34Ah	#2 AWG	50"	**3LE86**
For Use With Battery Type: Lead Acid							
Automatic	12	3400A/1700A @ 12V	720A @ 12V	22Ah	2 ga.	6 ft.	**34NK69**
	12, 24	3400A/850A @ 12V, 1700A @ 24V	400A @ 12V, 400A @ 24V, 400A @ 6V, 400A @ 18V	44Ah	2 ga.	6 ft.	**450G83**



No. 49AK18



No. 417Y97



No. 417Z01



No. 444N23

DSR RACE-DRIVEN TECHNOLOGY | Schumacher ELECTRIC

Portable Jump Starters

Quick and convenient, these jump starters are ideal when vehicle batteries need to be recharged in emergency situations. Some units, including No. 444N23, also include USB ports for charging tablets and smartphones. All units, except No. 417Z01, feature reverse connection warnings or alarms.

Automatic/ Manual	For Battery Voltage	Boost Amps @ Voltage	Cold Cranking Amps @ Voltage	Amp Hours	Cable Gauge	Cable Length	Features	Brand	Mfr. Model	Item No.
For Use With Battery Type: AGM, Gel, Lead Acid										
Automatic	12, 24	900A @ 12V, 650A @ 24V	690A @ 12V, 420A @ 24V	(2) x 32Ah	#0 AWG	53⅝2"	—	DSR Proseries	DSR103AUX	**49AK18**
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Wet Cell										
Manual	12	525A @ 12V	350A @ 12V	22Ah	4 ga.	60"	USB Port	DSR Proseries	DSR114	**417Y95**
	12, 24	750A @ 12V, 475A @ 24V	525A @ 12V, 350A @ 24V	(2) x 22Ah	2 ga.	60"	USB Port, USB Button, 12V DC Socket	DSR Proseries	DSR115	**417Y96**
	12	525A @ 12V	350A @ 12V	22Ah	4 ga.	60"	USB Port	DSR Proseries	DSR116	**417Y97**
Automatic	12	280A @ 12V	225A @ 12V	22Ah	4 ga.	28"	High Impact-Resistant Case	DSR Proseries	DSR119	**417Z01**
	12	1700A @ 12V	200A @ 12V	6.4Ah	4 ga.	20"	Digital Display, Safe Lithium Ion Protection	DSR Proseries	DSR128	**444N23**
	12	800A @ 12V	400A @ 12V, 400A @ 24V, 400A @ 6V, 400A @ 18V	7Ah	8 ga.	30"	Built-In Light	Schumacher Electric	SJ1331	**444N38**
	12	1000A @ 12V	250A @ 12V	9Ah	8 ga.	24"	Digital Display, Built-In Light	Schumacher Electric	SJ1332	**444N39**



No. 49EK06



No. 49EK07



No. 49EK08



No. 49EK10

QUICKCABLE

Portable Power and Jump Starters

Easy to use portable power packs include a variety of different features. No. 49EK06 is a basic battery charging pack ideal for most cars and pickup trucks, while No. 49EK07 also includes an air compressor and air gauge for tire emergencies. No. 49EK08 is a workhorse unit that is ideal for tow trucks and rescue vehicles, and No. 49ED10 can also charge 24V batteries and features polarity and voltage safeguards and an integrated USB port for charging tablets and phones.

Automatic/ Manual	For Battery Voltage	Boost Amps @ Voltage	Cold Cranking Amps @ Voltage	Amp Hours	Cable Gauge	Cable Length	Mfr. Model	Item No.
Lead Acid								
Automatic	12	900A/400A @ 12V	—	18Ah	6 ga.	2¼ ft.	604050-396-001	**49EK06**
	12	900A/400A @ 12V	—	18Ah	6 ga.	55"	604051	**49EK07**
	12	1500A/700A @ 12V	700A @ 12V	20Ah	2 ga.	62"	604053	**49EK08**
	12, 24	900A @ 12V, 900A @ 24V	—	20Ah	2 ga.	5⅝2 ft.	604063-360-001	**49EK10**



No. 36MW25



No. 11Z385



No. 36MW21

ASSOCIATED

Portable Power and Jump Starter

Powerful starter has a battery status indicator, two 12V vehicle adapters, a 5VDC USB port, and LED working light with DC leads. It has an LED power indicator, high-visibility 8-ft. coiled cord, OBD-II connector with cigarette lighter input, and in-line fuse.

Automatic/ Manual	For Battery Voltage	Boost Amps @ Voltage	Cold Cranking Amps @ Voltage	Features	Mfr. Model	Item No.
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell						
Manual	12	720A @ 12V	720A @ 12V	—	6276	**36MW24**
	12, 24	720A/360A @ 12V, 720A/360A @ 24V	720A/360A @ 24V, 720A/360A @ 12V	—	6296	**36MW25**
	12	1700A @ 12V	360A @ 12V	—	MSK6211	**11Z385**
	12	1700A @ 12V	360A @ 12V	HD High Impact-Resistant Case with Rubber Base, LED Display with Charging Indicator, Built In Digital Voltmeter	KS401	**49Z422**
	12	1700A @ 12V	360A @ 12V	—	KS400	**36MW21**
For Use With Battery Type: Lead Acid						
Manual	6, 12, 24	230A @ 12V, 230A @ 24V, 230A @ 6V	230A @ 12V, 230A @ 24V, 230A @ 6V	—	6010B	**40GL81**

Power Inverters

▪ Inverter output voltage: 115VAC

Convert 12VDC battery power to 120VAC and remote power use. Color-coded, insulated connectors allow a wide variety of AC electrical devices to be DC-powered.

Peak Output Power	Inverter Input Voltage	DC Connection	Outlet Type	Brand	Item No.
Inverter					
280W	12VDC	Cigarette Lighter Input	Standard 3-Prong Outlet	Schumacher Electric	**5URF3**
400W	12VDC	Cigarette Lighter Input Plug and Battery Clamps	Standard 3-Prong Outlet	Westward	**26W998**
700W	12VDC	Cigarette Lighter Input Plug and Battery Clamps	3-Prong Outlet	Tundra	**45MR73**
800W	12VDC	Cigarette Lighter Input	3-Prong Outlet	Westward	**54DC43**
	12VDC	Cigarette Lighter Input Plug and Battery Clamps	Standard 3-Prong Outlet	Westward	**26W999**
1000W	12.8VDC	Socket and Post	Standard 3-Prong Outlet	Power Drive	**52YF64**
1500W	12VDC	Input Terminals	Standard 3-Prong Outlet	Power Drive	**44ZE67**
	12VDC	Battery Clamps	Standard 3-Prong Outlet	Westward	**26X001**
	12VDC	2 USB Ports	Standard 3-Prong Outlet	Power Drive	**44ZE70**
1520W	12VDC	Input Terminals	Standard 3-Prong Outlet	Schumacher Electric	**5URF5**
1600W	12VDC	Battery Clamps	3-Prong Outlet	Westward	**54DC44**
2000W	10.5 to 15.5VDC	Post	(2) NEMA 5-15R, Hardwired	Schumacher Electric	**400K21**
	12VDC	Input Terminals	3-Prong Outlet	Tundra	**45MR75**
3000W	12VDC	Input Terminals	NEMA 5-15R	Tundra	**45MR76**
4000W	12VDC	Input Terminals	3-Prong Outlet	Tundra	**45MR77**
	12VDC	Battery Clamps	GFCI	Schumacher Electric	**5URF2**
	12.8VDC	Socket and Post	Standard 3-Prong Outlet	Power Drive	**52YF67**
5000W	10 to 16VDC	Post	2 Standard 3-Prong Outlets	Aims Power	**45TX26**
	12VDC	Input Terminals	Hardwired 3-Prong Outlet	Tundra	**45MR86**
	12VDC	Input Terminals	Hardwired 3-Prong Outlet	Tundra	**45MR78**
	24VDC	Input Terminals	Hardwired 3-Prong Outlet	Tundra	**45MR80**
	24VDC	Input Terminals	Hardwired 3-Prong Outlet	Tundra	**45MR88**
6000W	24VDC	Input Terminals	(2) NEMA 5-15R, Hardwired	Tundra	**45MR81**
	12VDC	Input Terminals	Hardwired 3-Prong Outlet	Tundra	**45MR79**
	12.8VDC	Socket and Post	Standard 3-Prong Outlet	Power Drive	**52YF69**
10000W	10 to 16VDC	Post	Hardwired	Aims Power	**45TX23**
Pure Sine Inverter					
6000W	10 to 16VDC	Post	Hardwired, Dual GFCI	Aims Power	**45TX25**
10000W	10 to 16VDC	Post	Hardwired GFCI	Aims Power	**45TX24**
Westward Accessory					
Inverter Cable For Use with Nos. 1YAY8 and 1YAY9, 1200 W to 1500 W Inverter, Includes 6-Ft. Cable, AWG #2, Battery Post Connectors				Westward	**1YAZ1**


No. 26W999


No. 5URF3


No. 44ZE67


No. 5URF2


No. 45TX26

Truck Series Power Inverters and Chargers

Engineered to extend the life cycle of electrical charging and starting systems, and power a wide range of appliances and devices. Systems pair a battery charger converter and power inverter for convenient service in long-haul and work-truck applications. Charger converters help maintain batteries at optimal charge in varied weather.

Note: Find Tundra installed battery chargers, inverters, and installation kits on Grainger.com®; search under "tundra battery chargers and inverters."

Modified Sine Wave—Provide high efficiency and allow for high-accuracy functioning of most appliances and tools.

Pure Sine Wave—Help produce a more efficient and cleaner current for use with highly sensitive loads, such as desktop computers, ballast-driven lighting, medical equipment, or highly precise measuring/monitoring devices.

Inverter Input Voltage	Power Inverter Mfr. Model	Battery Charger/ Converter Mfr. Model	Item No.
Modified Sine Wave Output Form			
10.5 to 15VDC	M1500	IBC70	**45MT49**
20 to 30VDC	M3024	IBC2524	**45MT62**
Pure Sine Wave Output Form			
10.5 to 15VDC	S1800	IBC70	**45MT68**
20 to 30VDC	S3024	IBC2524	**45MT78**
10.5 to 15VDC	S3028	—	**45MT75**


No. 45MT49

Power Inverter Specifications

Inverter Output Form	Output Watts	Output Voltage	Input Voltage	No. of Outlets	Outlet Type	Peak Output Watts	Mfr. Model	Features
Modified	1500W	120VAC	12VDC	2	NEMA 5-15R	3000W	M1500	*
Sine Wave	3000W	120VAC	24VDC	3	(2) NEMA 5-15R + Hardwire	6000W	M3024	*
Pure Sine	1800W	120VAC	12VDC	2	(1) NEMA 5-15R + Hardwire	3600W	S1800	
Wave	3000W	120VAC	24VDC	2	(1) NEMA 5-15R + Hardwire	6000W	S3024	

**** Features Battery Optimization Technology. (BOT): Allows to manually select between two distinctive modes of battery antidischarge protections (Autonomy mode: 10VDC and Engine start mode:11VDC).***

Battery Charger/Converter Specifications

Output Amps	Output Amps	Input Voltage	Output Voltage	Inlet Type	Charging Modes	AC Consumption	Mfr. Model
70A	70A	120VAC	12VDC	NEMA 5/15P	4	13.1 Amps	IBC70
25A	25A	120VAC	24VDC	NEMA 5/15P	4	12.2 Amps	IBC2524

Wire Size	BLACK Item No.	BLUE Item No.	RED Item No.	WHITE Item No.
Cross-linked PE				
10 AWG	**34GA44**	—	—	—
14 AWG	**34GA65**	**34GA61**	**34GA67**	—
16 AWG	**34GA75**	**34GA70**	—	—
18 AWG	**34GA82**	**34GA78**	**34GA83**	**34GA84**
GPT, PVC				
10 AWG	**34GA89**	—	**34GA88**	—
12 AWG	**34GC03**	—	**34GC08**	—
14 AWG	**34GC18**	—	—	**34GC28**
16 AWG	**34GC43**	**34GC44**	**34GC48**	**34GC49**
18 AWG	**34GC58**	**34GC59**	**34GC62**	**34GC63**
20 AWG	**34GC65**	—	**34GC69**	—
22 AWG	**34GC72**	**34GC73**	**34GC76**	**34GC77**

Automotive Primary Wire

▪ 100-ft. spool length

Plastic insulated, bare copper stranded primary wire for low-voltage, transportation applications. High-heat, cross-linked, wire provides resistance to chemicals, abrasion, and moisture. Meet SAE J1128 and RoHS Compliant.



For Fuse Series	Amp Range of Fuse Block/Holder	Wire Size	Connector Type	Features	Mfr. Model	Item No.
Fuse Holder, Nonindicating						
ABC, AGC, AGX, MDA, MDL, MDM, MDQ, TFF, TFL, TGH	2 to 30A	12 AWG	Lead Wire	—	HHN	**6AYE7**
AGC, SFE	1 to 20A	14 AWG	Lead Wire	—	HHK	**6AYD7**
ATC	3 to 30A	12 AWG	Lead Wire	—	HHD	**1CV56**
ATC	3 to 30A	12 AWG	—	Cover	HHG	**6AYE8**
ATC	1 to 20A	16 AWG	Lead Wire	—	HHC	**6AYD2**
ATC	1 to 20A	16 AWG	—	Cover	HHF	**6AYD4**
ATC	0 to 10A	18 AWG	Lead Wire	—	BP/HHA-RP	**6AYL5**
ATM	2 to 30A	12 AWG	Lead Wire	Cover	HHM	**6AYE5**
ATM	1 to 20A	16 AWG	Lead Wire	Cover	HHL	**6AYD5**
MAXI	20 to 60A	6 AWG	Lead Wire	—	HHX	**5KDK4**
Fuse Holder, Indicating						
ATC	1 to 20A	16 AWG	Lead Wire	—	ATC-FHID	**6AYK2**
ATM	1 to 20A	16 AWG	Lead Wire	—	ATM-FHID	**6AYK3**
Fuse Block, Nonindicating						
AMG	100 to 300A	8 to 1 AWG	Screw	Cover	HMEG	**52CN17**
AMI	40 to 80A	8 to 1 AWG	Screw	Cover	HMID	**52CN16**


Fuse Holder with Cover No. 6AYE8


Fuse Holder No. 6AYL5


Fuse Holder No. 6AYK2

Automotive Fuse Holders and Blocks

Scan. Order. Done.
Details on page A1.


No. 4CUL4


No. 34UH66

No. 4CUL3


No. 4CUL2


No. 34UH68


No. 53KJ37


No. 53KJ35

Utility Funnels

Total Cap.	Top Dia.	Spout O.D.	H	Color	Includes	Item No.
Funnel King						
Polyethylene 4-Pc. Funnel Set						
¾ to 10 oz.	1⅛" to 4⅜"	5/16" to 9/16"	6"	Orange	¾, 2, 6, 10 oz. Funnels	**4CUL4**
Polyethylene Capped Funnel						
1 pt.	3"	½"	8¾"	Orange	Caps On Each End	**4CUL7**
1½ qt.	4"	½"	18"	Red	2 Caps On Each End	**4CUL9**
1½ qt.	4"	1"	14"	Green	2 Caps On Each End	**4CUN1**
Polyethylene Fast Fill Funnel						
3 qt.	5¼"	1 7/16"	21½"	Yellow	Removable Spout	**14N905**
Polyethylene Flexible Pouring Spout						
3½ oz.	1½"	½"	1½"	Red	—	**34UH66**
Polyethylene Funnel						
1 pt.	5⅛"	½"	4½"	Black	Hanging Tab	**4ZH70**
2 qt.	7"	½"	7"	Black	Hanging Tab	**53KJ39**
8 oz.	3½"	5/16"	4¼"	Yellow	Hanging Tab	**4ZH69**
120 oz.	8"	⅞"	16"	Translucent	Gold Mesh 100 Grit Filter	**4CUN5**
144 oz.	9"	1 1/16"	10"	Translucent	Antisplash Ring and Gold Mesh 100 Grit Filter	**4CUN7**
Polyethylene Funnel and Flexible Spout						
1 qt.	6"	½"	16"	Black	Handle and 10" Removable Flexible Spout (34UH66)	**4CUL3**
Polyethylene Funnel with Screen						
1 pt.	6½"	½"	6⅛"	Red	50 Micron SS Screen and Hanging Tab	**4CUL2**
2 qt.	6½"	1 1/16"	8 3/16"	Red	60 Micron SS Screen and Hanging Tab	**4ZH73**
6 qt.	8¼"	1 5/16"	10½"	Red	60 Micron SS Screen and Hanging Tab	**6Y805**
Polypropylene Funnel						
4 oz.	3⅛"		3"	Black	—	**10G580**
12 oz.	3½"	1 3/16"	6"	Blue	—	**34UH65**
26 oz.	5½"	1¼"	6¼"	Blue	—	**34UH68**
Polypropylene Long Reach Funnel						
1 qt.	4"	½"	18"	Black	Hanging Tab	**4ZH72**
Steel Funnel						
32 oz.	4¾"	¾", 1⅛"	6"	Silver	—	**53KJ34**
64 oz.	8⅜"	½"	7¾"	Silver	Fine Mesh Straining Screen	**53KJ37**
256 oz.	9⅝"	1"	12"	Silver	Fine Mesh Straining Screen	**53KJ30**
Steel Funnel with Screen						
1 qt.	6⅜"	½"	7⅜"	Silver	50 Grit Screen	**53KJ36**
Steel Funnel with Screen and Flexible Spout						
1 qt.	6⅜"	9/16"	7⅜"	Silver	50 Grit Screen	**53KJ35**
2 qt.	7"	½"	28"	Silver	50 Grit Screen	**53KJ38**
Steel Galvanized Funnel						
8 qt.	9⅝"	1"	11⅞"	Silver	50 Grit Screen	**53KJ41**
Steel Galvanized Offset Funnel						
6 qt.	10½"	1"	11⅝"	Silver	—	**53KJ40**
Westward						
Plastic 3-Pc. Funnel Set						
—		—	Translucent		4,6,8" Utility Funnels, 3 Fine Mesh Filter Screens	**1EKF3**
Plastic Funnel with Screen						
25 oz.	3¼"	9/16"	—	Translucent	3.2" Screen	**1EKF2**
Plastic Utility Funnel						
6 oz.	3"	⅜"	—	Translucent	Hanging Tab	**1EKF5**
7 oz.	3⅞"	9/16"	—	Translucent	Hanging Tab	**1EKF1**
24 oz.	5⅜"	¾"	—	Translucent	Hanging Tab	**1EKF6**
64 oz.	7¾"	1⅛"	—	Translucent	Hanging Tab	**1EKE8**



Vented Drum Funnel with Lockable Lid

- Fits 2" bung opening
- Not recommended for flammable liquids
- Built-in vent eliminates splashing

Total Cap.	Top Dia.	Mfr. Model	Item No.
2 gal.	13⅜"	651	**3TZU4**
—	22"	656	**3UAK6**


No. 10G582

Drum Funnels

- Fits 2" bung opening except No. 10G575 fits 1" opening

Description	Total Cap.	Top Dia.	Spout Outside Dia.	H	Color	Mfr. Model	Item No.
Without Screen	3 qt.	7½"	1¼"	9 3/16"	Black	32410	**10G575**
	3 qt.	7½"	2¼"	9 3/16"	Black	32400	**10G574**
With Screen	4 qt.	11¾"	2½"	4⅜"	Black	32900	**10G577**
With Lockable Lid For Open or Closed Drum Heads	4 qt.	9⅛"	2"	8½"	Red	32425	**10G582**
With Lid and Fluid Control	2 gal.	11½"	2½"	13"	Yellow	32015	**10G573**
With Lid, For Open or Closed Head Drums	2 gal.	21½"	1½"	7"	Yellow	32420	**10G576**


No. 2CAP3


No. 53KJ34

Measuring Containers

For accurate measuring and easy dispensing of fluids or dry goods.

Nos. 53KJ43 and 53KJ44 have a splash-resistant top. No 53KJ45 has a flip-action valve and thumb-operated flow control.

Cap.	W	Brand	Mfr. Model	Item No.
HDPE				
Flexible Spout with Dust and Spout Caps				
1 qt./1 ltr.	—	Westward	2CAN9	**2CAN9**
2 qt./2 ltr.	—	Westward	2CAP1	**2CAP1**
3 qt./3 ltr.	—	Westward	2CAP2	**2CAP2**
5 qt./5 ltr.	—	Westward	2CAP3	**2CAP3**
6 qt./6L	—	Westward	33RL91	**33RL91**
Fixed Spout with Dust and Spout Caps				
6L	11½"	Funnel King	32375	**10G596**
10L	13"	Funnel King	32377	**10G597**

Cap.	W	Brand	Mfr. Model	Item No.
Galvanized Steel				
2 qt.	6½"	Funnel King	94486	**53KJ43**
4 qt.	7½"	Funnel King	94488	**53KJ44**
5 qt.	10"	Funnel King	94496	**53KJ45**
HDPE				
8 qt.	—	Westward	48UJ87	**48UJ87**
5 3/32 qt.	8½"	Funnel King	94367	**53KJ50**
Galvanized Steel				
32 oz.	—	Funnel King	94484	**53KJ34**

Radiator Filler

Cap.	Material	Mfr. Model	Item No.
3 gal.	Polyethylene	75-025	**6Y812**




No. 34NK67


No. 4ZT17

Drum Dollies

- 4 casters
- Black color, except No. 6WB27 is red

Base Style	Caster Material	Caster Dia.	Brand	Mfr. Model	Item No.
16-gal. Drum Dolly with 120-lb. Capacity					
Bracket Clamp	Polyolefin	3"	Westward	34NK67	**34NK67**
Bracket Clamp	Hard Rubber	2½"	Lincoln	84192	**6WB27**
55-gal. Drum Dolly with 400-lb. Capacity					
Bracket Base	Nylon	4"	Westward	34NK68	**34NK68**
Bracket Base	Steel	3"	Legacy	DD55	**4ZT17**
Bracket Base	Hard Rubber	2½"	Lincoln	84377	**6WB28**


No. 21EM36


No. 6RKP9


No. 3YEY4

WESTWARD PROTO LINCOLN

Portable Waste Oil Containment

Description	Cap. (gal.)	H (in.)	Mfr. Model	Item No.
Westward				
Gravity Feed	8	55"	21EM35	**21EM35**
Gravity Feed	13	63½"	21EM36	**21EM36**
Gravity Feed	18	72"	21EM03	**21EM03**
Gravity Feed	24	39⅜"	34NK72	**34NK72**
Proto				
Lift Drain with 15" dia. Funnel	8	13.78	JFF11102	**6RKP9**
Lincoln				
Portable Oil Drain	8	22½	3508	**45PG77**
Drum Drain for 16-gal. Open Top Drum	16		613	**6Y902**
Portable Oil Drain	18	30	3518	**45PG78**
Receiver and Self-Evacuating System with 14" dia. Bowl	18	72	3601	**3YEY4**
Receiver and Self-Evacuating System with 14" dia. Bowl	20	44 to 72	3614	**6WA94**
Gravity Feed Drain	25	22	3635	**20KY21**
Air-Operated Fluid Extractor	25	18	3637	**20KY22**
Combination Gravity Feed and Air-Operated Fluid Extractor	25	22	3639	**20KY23**
Funnel Drain Pan, 24" Overall Dia.			3610	**6Y910**


No. 20KY20


No. 6ANR8

LINCOLN LIQUIDYNAMICS OTC WESTWARD

Low-Profile Truck Drains


No. 45PE54

Includes	Cap. (gal.)	Construc.	H (in.)	Item No.
Lincoln				
6 ft. Discharge Hose, (4) Casters, T-Handle, Hose, Filter Screen	17	Polypropylene	7¾	**20KY18**
Electric Pump, (4) Casters, T-Handle, Hose, Filter Screen	17	Polypropylene	7¾	**20KY20**
Rotary Hand Pump, (4) Casters, T-Handle, Hose, Filter Screen	17	Polypropylene	7¾	**20KY19**
Liquidynamics Inc.				
(4) Casters, T-Handle, Hose, Filter Screen	25	Steel	9	**6ANR8**
Air Pump, (4) Casters, T-Handle, Hose, Filter Screen	25	Steel	9	**447V40**
OTC				
Electric Pump, (4) Casters, T-Handle, Hose, Filter Screen	15	Polypropylene	7½	**45PE54**
Westward				
Drain Outlet	18	Steel	7.5	**45CT55**
Drain Outlet	18	Steel, Cast Iron	7.5	**45CT56**

GRAY

Portable Oil/Antifreeze Transfer Tanks

- 9" clearance from floor to top of reservoir

Item	Cap. (gal.)	Dia.	Mfr. Model	Item No.
Oil Fluid Handler	15	30"	OH-15	**11N158**
Antifreeze Fluid Handler	15	30"	AH-15	**11N159**


No. 11N159


No. 53KJ31


No. 20KR87


No. 45CT67

FUNNEL KING WESTWARD Ken-Tool

Drip and Drain Pans

Cap. (gal.)	L	W	Dia.	Construc.	Brand	Item No.
Drain Pan						
2 gal.	22"	22"	22"	Polypropylene	Funnel King	**4CUR2**
3¼	17¼"	17¼"	17¼"	Steel	Funnel King	**53KJ32**
—	25¾"	17½"	—	Steel	Funnel King	**53KJ31**
4	17¾"	—	17¾"	Polyethylene	Funnel King	**34UH69**
4 gal.	17¾"	17¾"	17¾"	Polyethylene	Funnel King	**4CUR5**
4¼	23¼"	—	18⅞"	Polyethylene	Westward	**45CT67**
.96	21"	11"	22½" to 24½"	Plastic	Ken-Tool	**20KR87**
Oil Drain Basin						
1⅝"	13½"	13½"	13½"	Polypropylene	Funnel King	**10G589**
4¼	23¼"	—	18⅞"	Polyethylene	Westward	**45CT66**
Spill Tray						
—	15"	25"	—	—	Funnel King	**10G599**

mityvac WESTWARD

Fluid Evacuator/Dispenser

Item	Reservoir Cap. (gal.)	Type	Mfr. Model	Item No.
Mityvac				
Engine and Gear Oils, Trans Fluid, Power Steering and Brake Fluid, Coolants, and Similar Fluids				
Fluid Dispenser	1.2	Manual	MV6400	**45PG69**
Fluid Evacuator	1.9	Manual	07400	**1XGR9**
Fluid Evacuator	2.3	Pneumatic	07300	**1XGR8**
Fluid Evacuator/ Dispenser	2.3	Manual	07201	**1XGR7**
Fluid Extractor Syringe	0.05	Manual	MVA6851	**45PG75**
Hydraulic Brake Fluid				
Brake Bleed Kit	0.5	Pneumatic	MV6835	**45PG71**
Master Brake Bleed Kit	0.5	Pneumatic	MV6838	**45PG72**
Pressure Bleed Kit	1.2	Manual	MV6840	**45PG73**
Vacuum Brake Bleeder	0.3	Pneumatic	MV6870	**45PG74**
Transmission Fluid				
ATF Refill Kit	2.5	Manual	MV6412	**45PG70**
Westward				
Hydraulic Fluids				
Fluid Evacuator	2.4	Pneumatic	20KY57	**20KY57**
Fluid Evacuator	1.7	Manual	20KY56	**20KY56**
Fluid Evacuator	4	Pneumatic	20KY58	**20KY58**


No. 1XGR9


No. 45PG72

LiquiVac

Portable Fluid Extractors

Hand pump systems use vacuum action to pull oils and fluids from engines into waste tank.

Reservoir Cap. (gal.)	Mfr. Model	Item No.
¾	2005LV	**1NUV6**
2	2000LV	**1NUV5**


No. 1NUV5

ARO®

Waste Oil Evacuation Packages

Include wall-mount bracket, inlet and outlet hose assemblies, air line filter/regulator with auto drain, air line hose, gauge, and fluid coupler.

Working Flow Max. (gpm)	Mfr. Model	Item No.
Diaphragm Pump		
11	612999-5	**4ZT10**
35	612999-4	**4ZT09**


No. 4ZT10

Scan. Order. Done.
Details on page A1.





LINCOLN

Manual Grease Guns

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

Flip-over follower on select guns provides a superior seal for easy filling.

Lever models have a cast iron pump head, precision-fit plunger, and extra-heavy follower spring to withstand rough duty. No. 6Y889 has a dip-coated sleeve on the lever handle and bleeder valve on the head.

Pistol models have a die-cast aluminum head. No. 6Y895 features plated steel handle and barrel with flip follower. Extension swivels 360°.

Nozzle Extension Type	Hose Length	Pipe Length	Strokes for 1-oz. Output	Tube Color	Stroke	Max. Operating Pressure	Mfr. Model	Item No.
Metal								
Lever								
Flex Hose	18"	—	28.0	Blue	Full Stroke	10,000 psi	1147	**6Y892**
Rigid Pipe	—	6"	28.0	Blue	Full Stroke	10,000 psi	1142	**6Y888**
	—	6"	28.0	Blue	Variable Stroke	10,000 psi	1148	**6Y889**
	—	6"	33.0	Silver	Full Stroke	4000/7000 psi	1013	**6Y886**
Pistol Grip								
Flex Hose	18"	—	56.0	Blue	Full Stroke	6000 psi	1133	**6Y894**
	18"	—	56.0	Black	Full Stroke	6000 psi	G113	**6WA97**
Rigid Pipe	—	6"	56.0	Blue	Full Stroke	6000 psi	1132	**6Y895**
Rigid Pipe and Flex Hose	18"	6"	33.0	Blue	Variable Stroke	7500 psi	1134	**6WA98**
Polycarbonate								
Lever								
Rigid Pipe	—	2"	33.0	Clear with Blue Tube Ends	Full Stroke	7500 psi	1142CLR	**3LKR6**
Pistol Grip								
Rigid Pipe and Flex Hose	18"	6"	33.0	Clear with Blue Tube Ends	Variable Stroke	7500 psi	1134CLR	**2AAW1**



PROTO®

Manual Grease Gun

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

Versatile pistol-grip gun offers 3-way filling and is teather-ready, with a heat-shrink loop attachment. It features a heavy-duty 1.7mm thick seamless aluminum barrel to avoid dents, lightweight aluminum head, heavy-duty flexible 18" nylon hose, and 6" metal spout for easy use.

Nozzle Extension Type	Hose Length	Pipe Length	Strokes for 1-oz. Output	Tube Color	Max. Operating Pressure	Tether Capable	Mfr. Model	Item No.
Pistol Grip								
Rigid Pipe and Flex Hose	18"	6"	30.0	Red	3600 psi	Standard Tool	JFC33HD	**6RKT6**
	18"	6"	30.0	Red	3600 psi	Tether Ready	JFC33HD-TT	**24AL24**





WESTWARD®

Manual Grease Guns

- Cartridge capacity 14½ oz. (except No. 4BY82 uses 3-oz. cartridge)
- Bulk capacity 16 oz. (except No. 4BY82 4-oz. capacity)
- Cartridge or bulk grease loading

Feature die-cast aluminum head and handle. No. 4BY82 is a toolbox-size gun with dual discharge ports (front and top). No. 4BY74 comes with a handy filler nipple. No. 13X046 is ideal for use in cold weather and has a large inlet port with venturi action. Clear barrel models provide 100% positive grease identification and color-coded ends help identify which fluid is in each gun. Additional color options on Grainger.com®.

Nozzle Extension Type	Hose Length	Pipe Length	Tube Color	Stroke	Strokes for 1-oz. Output	Max. Operating Pressure	Item No.
Steel							
Lever							
Flex Hose	18"	—	Black	Variable Stroke	31.0	10,000 psi	**4BY72**
	18"	—	Black	Full Stroke	33.0	6000 psi	**4BY69**
	18"	—	Blue	Full Stroke	28.0	10,000 psi	**15F199**
Rigid Pipe	—	6"	Black	Full Stroke	28.0	6000 psi	**4BY70**
	—	6"	Black	Variable Stroke	28.0	8000 psi	**15F202**
	—	6"	Black	Full Stroke	28.0	10,000 psi	**4BY71**
Pistol Grip							
Flex Hose	18"	—	Black	Full Stroke	56.0	6000 psi	**15F196**
	18"	—	Blue	Full Stroke	35.0	6000 psi	**4BY81**
	18"	—	Black	Full Stroke	40.0	7500 psi	**13X046**
Rigid Pipe	—	4"	Gray	Full Stroke	60.0	3500 psi	**4BY82**
	—	6"	Black	Full Stroke	56.0	6000 psi	**4BY74**
Rigid Pipe and Flex Hose	12"	4"	Silver	Full Stroke	60.0	5000 psi	**33RL90**
Polycarbonate							
Flex Hose	18"	—	Clear with Silver Tube Ends	Variable Stroke	40.0	7500 psi	**15F203**
Metal							
Flex Hose	12"	—	Gray	Variable Stroke	30.0	7000 psi	**45CT47**
Aluminum							
Flex Hose	18"	—	Red	Full Stroke	56.0	5000 psi	**48UJ79**
Rigid Pipe and Flex Hose	12"	5½"	Clear with Black Tube Ends	Variable Stroke	40.0	7000 psi	**44C495**
	12"	5½"	Clear with Blue Tube Ends	Variable Stroke	40.0	7000 psi	**44C496**
	12"	5½"	Clear with Green Tube Ends	Variable Stroke	40.0	7000 psi	**44C498**
	12"	5½"	Clear with Red Tube Ends	Variable Stroke	40.0	7000 psi	**44C501**

Features	For Use With	Item No.
Grease Gun Holder		
Heavy Duty Spring Loaded Flap, Ideal For Holding Guns On Automobiles, Farm Equipment And Other High Vibration Environments	2¼" Diameter Barrel Guns	**13X048**
Clamp On Style With Simple Snap Action Clamping	2¼" Diameter Barrel Guns	**13X047**
Clear Grease Gun Barrel with Blue Ends		
14 oz. See-Thru Shatterproof Barrel, Anodized Blue End Caps	Westward Clear Grease Guns and Most Lincoln and Alemite Grease Guns (Not For Use with Aviation Grease)	**44C482**





Milwaukee® DEWALT

Cordless Grease Guns

- Battery powered
- Cartridge or bulk grease loading
- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.

Feature air bleeder valves for quick priming. Flex hose nozzle extensions help access hard-to-reach fittings. Nos. 25DU72 and 25DU73 have variable-speed triggers for controlled grease flow and are suitable for grease types up to NLGI Grade 2. Nos. 45L187 to 45L189 have 2-speed design to select between max. pressure and max. flow rate. All except Nos. 6FKP5 and 4PKY9 have LED lights for low-light conditions.

Description	Nozzle Extension Type	Hose Length	Pipe Length	Strokes for 1-oz. Output	Grease Gun Handle Style	Max. Operating Pressure	Battery Incl.	Mfr. Model	Item No.
Milwaukee 12.0 Voltage									
Bare Tool	Flex Hose	36"	—	38.0	Pistol Grip	8000 psi	No	2446-20	**6FKP5**
Battery Included	Flex Hose	36"	—	38.0	Pistol Grip	8000 psi	4PKY2	2446-21XC	**4PKY9**
Milwaukee 18.0 Voltage									
Bare Tool	Flex Hose	48"	—	38.0	Pistol Grip	10,000 psi	No	2646-20	**45L189**
Battery Included	Flex Hose	48"	—	38.0	Pistol Grip	10,000 psi	2XKZ3	2646-21CT	**45L187**
	Flex Hose	48"	—	38.0	Pistol Grip	10,000 psi	(2) 2XKZ3	2646-22CT	**45L188**
DeWalt 20.0 Voltage									
Bare Tool	Flex Hose	42"	1½"	37.0	Pistol Grip	10,000 psi	No	DCGG571B	**25DU73**
Battery Included	Flex Hose	42"	1½"	37.0	Pistol Grip	10,000 psi	21RV47	DCGG571M1	**25DU72**

For Use With	Brand	Item No.
Clear Grease Gun Barrel		
Grease Guns	DeWalt	**20GW37**
Mfr. No. 2646-21CT, 2646-22CT, 2646-20	Milwaukee	**45L190**









LINCOLN

Cordless and Air-Operated Grease Gun Kits

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

For grease types up to NLGI Grade 2. Silver-color tube.

Cordless—Nos. 49CT89, 49CT90, 30HL30, and 30HL31 feature stable 3-point stance. 1260 Series have an air purge valve and integrated hose holder.

1440 Series cycle indicator pin helps monitor grease output. 1840 Series with high-torque motor and high-capacity battery dispense up to 10 grease cartridges with a single charge.

Air-Operated—Variable-speed trigger. Advanced pump design helps eliminate priming problems. ¼" FNPT air inlet. Air operating range: 40 to 150 psi. 40:1 ratio.

Battery Type	Nozzle Extension Type	Hose Length	No. of Speeds	Strokes for 1-oz. Output	Grease Gun Handle Style	Max. Operating Pressure	Battery	Mfr. Model	Item No.
Cordless Grease Gun									
12.0 Voltage									
Li-Ion	Flex Hose	30"	—	2.6	Pistol Grip	8000 psi	Mfr. No. 1261	1262	**49CT89**
	Flex Hose	30"	—	2.6	Pistol Grip	8000 psi	(2) Mfr. No. 1261	1264	**49CT90**
NiCad	Flex Hose	30"	1	—	Pistol Grip	6000 psi	(2) Mfr. No. 1201	1244	**6WB10**
	Flex Hose	—	1	—	Pistol Grip	6000 psi	Mfr. No. 1201	1242	**5JC28**
14.4 Voltage									
NiCad	Flex Hose	30"	2	50.0	Pistol Grip	7500 psi	1XGN4	1442	**3KNJ2**
	Flex Hose	30"	2	50.0	Pistol Grip	7500 psi	(2) 1XGN4	1444	**1XGN5**
18.0 Voltage									
NiCad	Flex Hose	30"	—	50.0	Pistol Grip	7000 psi	Mfr. No. 1801	1842	**45PV70**
	Flex Hose	30"	2	50.0	Pistol Grip	7500 psi	Mfr. No. 1801	1844	**41AA88**
20.0 Voltage									
Li-Ion	Flex Hose	36"	2	—	Pistol Grip	10,000 psi	30HL32	1882	**30HL30**
	Flex Hose	36"	2	—	Pistol Grip	10,000 psi	(2) 30HL32	1884	**30HL31**
Air-Operated Grease Gun									
—	Flex Hose	30"	—	—	Pistol Grip	6000 psi	—	1162	**2FRU5**

Description	Item No.
Cordless Grease Gun Accessories	
12V Rechargeable NiCd Battery for Nos. 5JC28 and 6WB10	**5JC25**
14.4V High-Capacity NiCd Rechargeable Battery for No. 1XGN5	**1XGN4**
20V Battery for No. 30HL30	**30HL32**
110V Charger for 12V Battery for Nos. 5JC28 and 6WB10	**5JC26**
110V Battery Battery Charger for use with Power Luber	**3LKR5**
Clear Grease Tube	**1XGP2**

Legacy

Portable Air-Operated Grease Pump Packages

- Pump ratio 55:1
- Volume per minute: 22 oz.



Includes	Size (lb./gal.)	Mfr. Model	Item No.
Pump, Air Coupler, Booster Gun with 360 Degree, Z Swivel, Rubber Edged Follower Plate, Hose and Heavy Duty Metal Dolly	35/5	L6000	**4ZT49**
	120/16	L6100	**4ZT50**

WESTWARD

Air-Operated Grease Pump Packages

- Pump ratio 50:1
- For NLGI 1 and NLGI 2 grease

Include drum cover, rubber lined follower plate, and grease hose. A grease control gun with 360° Z-swivel comes with all except No. 5TCV3.



Fits Container Size	Volume per Minute	Hose Length	Max. Pressure	Item No.
Grease Pump				
400 lb./55 gal. Drum	1.76 lb.	10 ft.	5800 psi	**5TCV3**
Grease Pump with Gun				
25 to 50 lb. Container	2.40 lb.	7 ft.	5750 psi	**3APE8**
35 lb./5 gal. Pail	1.76 lb.	13 ft.	5800 psi	**5TCU9**
35 lb./5 gal. Pail	4 lb.	13 ft.	9000 psi	**29FX02**
120 lb./16 gal. Drum	2.40 lb.	7 ft.	5750 psi	**3APE9**
120 lb./16 gal. Drum	1.76 lb.	13 ft.	5800 psi	**5TCV0**
400 lb./55 gal. Drum	2.20 lb.	7 ft.	7500 psi	**5NUE5**
400 lb./55 gal. Drum	4 lb.	13 ft.	9000 psi	**29FX04**
Portable Grease Pump with Gun				
25 to 50 lb. Container	2.40 lb.	7 ft.	7500 psi	**5NUE3**
120 lb./16 gal. Drum	1.76 lb.	13 ft.	5800 psi	**5TCV2**
120 lb./16 gal. Drum	2.42 lb.	7 ft.	7500 psi	**5NUE4**
120 lb./16 gal. Drum	4 lb.	13 ft.	9000 psi	**29FX03**

ARO®

Air-Operated Grease Pump Packages

- Pump ratio 50:1
- Max. pressure 7500 psi
- For NLGI 1 and NLGI 2 grease

Include air pump, air coupler/connector, pail/drum cover, follower plate, and high-pressure hose.



Fits Container Size	Volume per Minute	Hose Length	Air Motor Size	Mfr. Model	Item No.
Grease Pump with Gun					
35 lb./5 gal. Pail	9 lb.	10 ft.	2"	LP2002-1-B	**4KK63**
35 lb./5 gal. Pail	7.5 lb.	10 ft.	3"	LP3001-1	**4KK65**
120 lb./16 gal. Drum	9 lb.	10 ft.	2"	LP2004-1-B	**4KK64**
Grease Pump					
400 lb./55 gal. Drum	7.5 lb.	4 ft.	3"	LP3009-1	**4ZT13**
Portable Grease Pump with Gun					
120 lb./16 gal. Drum	7.5 lb.	10 ft.	3"	LP3003-1	**4KK66**

LIQUIDYNAMICS

Air-Operated Grease Pump Packages

- Pump ratio 60:1
- Volume per minute: 48 oz.
- For NLGI 1 and NLGI 2 grease



Fits Container Size	Volume per Minute	Hose Length	Max. Pressure	Item No.
Portable Grease Pump with Gun				
35 lb./5 gal. Pail	48 oz.	6 ft. hose	7200 psi	**6ANR1**
120 lb./16 gal. Drum	48 oz.	12-ft. hose	7200 psi	**6ANR2**









LINCOLN

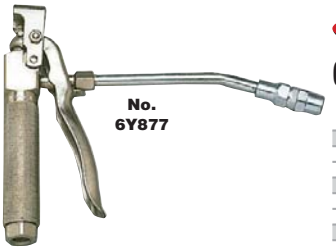
Air-Operated Grease Pump Packages

- For NLGI 1 and NLGI 2 grease

Include pail/drum cover, air connecting hose, high-pressure grease connecting hose with grease gun, and follower plate.

Fits Container Size	Type	Pump Ratio	Volume per Minute	Hose Length	Max. Pressure	Mfr. Model	Item No.
Grease Pump							
120 lb./16 gal. Drum	Stationary	50:1	80 cu. in.	5 ft.	7500 psi	918	**2DPK3**
120 lb./16 gal. Drum	Stationary	50:1	90 cu. in.	5 ft.	7500 psi	1418	**2DPK5**
400 lb./55 gal. Drum	Stationary	50:1	80 cu. in.	5 ft.	7500 psi	926	**6WB23**
400 lb./55 gal. Drum	Stationary	50:1	90 cu. in.	5 ft.	7500 psi	1426	**2DPK6**
Grease Pump with Gun							
25 to 50 lb. Container	Stationary	40:1	5 cu. in.	7 ft.	4000 psi	4489	**6WB20**
25 to 50 lb. Container	Portable with Pail Cover	50:1	80 cu. in.	7 ft.	7500 psi	9989	**2DPN9**
Portable Grease Pump with Gun							
25 to 50 lb. Container	With Band Dolly	40:1	5 cu. in.	7 ft.	4000 psi	4459	**6WB19**
25 to 50 lb. Container	With Roll Around Base	50:1	80 cu. in.	7 ft.	7500 psi	989	**1YTF4**
120 lb./16 gal. Drum	With Band Dolly	40:1	5 cu. in.	7 ft.	4000 psi	4417	**6WB21**
120 lb./16 gal. Drum	Portable with Caster Base	50:1	168 cu. in.	7 ft.	7500 psi	9917	**2DPN8**
120 lb./16 gal. Drum	With Band Dolly	50:1	80 cu. in.	7 ft.	7500 psi	6917	**36P444**
120 lb./16 gal. Drum	With Roll Around Base	50:1	80 cu. in.	7 ft.	7500 psi	917	**6WB22**





legacy LINCOLN WESTWARD

Grease Control Guns & Valves

Item	Inlet (in.)	Outlet (in.)	Max. Pressure (psi)	Mfr. Model	Item No.
Legacy					
Booster Gun	¼" NPT	Coupler	10,000	LCG1-01	**6Y641**
Grease Control Gun	⅛" FNPT	⅛" (H)NPT	7500	LCG2	**4ZT53**
Lincoln					
High Pressure Control Handle	⅜" (F)NPT	⅛ FNPT	7500	81495	**6Y914**
High Pressure Control Handle	¼" (F)NPT	⅛ FNPT	7500	740	**6Y877**
Westward					
Booster Valve with Z Swivel	¼" (F)NPT	⅛ FNPT	—	—	**1ZTD2**
Control Valve	¼" (F)NPT	⅛ FNPT	7500	—	**1ZTD1**
Grease Control Valve	¼" (F)NPT	⅛ FNPT	10,000	—	**2CAN6**



No. 1ZTC9


No. 45FG56

WESTWARD LINCOLN legacy

Grease Gun Tool Kits

Description	Item No.
Westward	
Recessed Lube Adaptor, Narrow Needle Nose, Angled Lube Adaptor, Quick Connect Seal Off, Right Angled Coupler, Grease Injector Needle, Quick Connect Hose, Pouch, (2) Adaptor Rings	**1ZTC9**
Grease injector needle, straight needle point, needlepoint coupler, needle nose dispense, grease coupler, rigid grease extension, grease hose and pouch	**45FG56**
Lincoln	
90° Lube Tool, Straight Extension,12" Hose, Slide-on 90° Coupler, Rubber Tipped Nozzle, Needle Nozzle and 360° Coupler	**1XGN7**
Legacy	
Swivel Pad, Straight Needle Point Coupler, 90° Needle Point Coupler, Right Angled Needle Point Coupler, Right Angled Coupler, Rigid Grease Extension 8", Grease Whip 16"	**4ZT36**



LINCOLN

Wheel Bearing Packer

Clamps on to 25- to 50-lb. original refinery containers. For bearings 9½" with min. 9/16" I.D. Includes adapter for smaller bearings of 1" to 1¾" O.D.

H	W	Mfr. Model	Item No.
21	2 ½	102929	**6Y907**



WESTWARD

Bearing Packer

Designed to make lubrication quick and easy.

Item	For Use With	Includes	Item No.
Rapid Action Bearing Packer	Grease Guns	Heavy Duty Dust Cover	**3APG3**
Bearing Packer	Grease Guns	Grease Nipple At One End	**13X054**
Bearing Packer	—		**45FF31**

Find our full selection of Grease Guns and Accessories at Grainger.com®.

Grease Fittings Kits

WESTWARD® LINCOLN KINGFISHER

No. of Pieces	Includes	Item No.
Westward		
60	(8) ⅛"-27 PTF 45°, (8) ⅛"-27 PTF 90°, (15) ⅛"-27 PTF Straight, (25) ¼"-28 SAE-LT Straight (1) Professional Hand Coupler, (1) Air Operated Equipment Coupler, (1) Right Angled Coupler, (1) Needle Nose Dispenser	2CAN7
60	(12) M8-1mm 90°, (12) M6-1mm Straight, (12) M8-1mm Straight, (20) M10-1mm Straight (1) Professional Hand Coupler, (1) Air Operated Coupler, (1) Right Angled Coupler, (1) Needle Nose Dispenser	2CAN8
65	⅛"-27 PTF, ¼"-28 SAE-LT, M6-1mm Straight, M8-1mm Straight, Easy Out Tools, Small, Large, Grease Fitting Caps, Professional 4 Jaw Couplers,, Grease Fitting Thread Tester	13X065
100	(15) ⅛"-27 Straight, (10) ⅛"-27 45°, (10) ⅛"-27 90°, (15) ¼"-28 Straight, (10) ¼"-28 45°, (10) ¼"-28 90°, (10) Grease Fitting Caps Red, (10) Grease Fitting Caps Yellow, (10) Grease Fitting Caps Black,Plastic Case	3APF4
100	(15) M6-1mm Straight, (10) M6-1mm 90°, (15) M8-1mm Straight, (5) M8-1mm 90°, (15) M10-1mm Straight, (10) M10-1mm 90°, (10) Grease Fitting Caps Red, (10) Grease Fitting Caps Yellow, (10) Grease Fitting Caps Black,Plastic Case	3APF5
Lincoln		
100	(20) ⅛" NPT Straight, (40) ¼"-28" Straight Short Thread, (10) ¼"-28" 45°Short Thread, (10) ⅛" NPT 65°,(10) ⅛" NPT 90°,(10) ¼"-28" 90°Short Thread	6Y864
Kingfisher		
194	(36) ⅛"-27 Straight, (12) ⅛"-27 30°, (12) ⅛"-27 45°, (12) ⅛"-27 65°, (12) ⅛"-27 90°, (24) ¼"-28 Straight, (12) ¼"-28 45°, (12) ¼"-28 90°, (10) Green Grease Fitting Cap with Retaining Ring, (10) Yellow Grease Fitting Cap with Retaining Ring, (10) Red Grease Fitting Cap with Retaining Ring, (10) White Grease Fitting Cap with Retaining Ring, (10) Black Grease Fitting Cap with Retaining Ring, (10) Blue Grease Fitting Cap with Retaining Ring, (2) ¼, ⅛ Fitting Tools, Metal Case	4RZK9



No. 2CAN7



No. 4RZK9

Grease Fittings

- Find more Grease Fitting sizes and styles on Grainger.com®

Meet appropriate SAE and DIN requirements.

WESTWARD® KINGFISHER

Fitting Thread Size	Overall Length	Fitting Material	Grease Fitting Style	Brand	Item No.	Pkg. Qty.
Straight Head Angle						
M10-1.00mm	5/8"	Stainless Steel	Standard	Westward	52NZ95	10
	5/8"	Steel	Standard	Westward	52NZ38	10
M10-1.50mm	16mm	Steel	Standard	Kingfisher	1XGK5	10
M6-1.00mm	14.2mm	Steel	Thread Forming	Kingfisher	3APA8	10
	5/8"	Stainless Steel	Standard	Westward	52NZ82	10
	5/8"	Steel	Standard	Westward	52NZ27	10
3/16"	1/2"	Steel	Drive (Push-In)	Kingfisher	2PA93	10
	39/64"	Stainless Steel	Drive (Push-In)	Westward	52NZ78	10
	17/32"	Steel	Drive (Push-In)	Westward	52NZ26	10
⅛"-27	49/64"	Steel	Button Head	Kingfisher	5PU34	10
	21/32"	Stainless Steel	Standard	Westward	52NZ85	10
	21/32"	Steel	Standard	Westward	52NZ29	10
	27/32"	Steel	Standard	Westward	52NZ99	10
⅛"-28	39/64"	Steel	Standard	Kingfisher	3ANZ2	10
	39/64"	Stainless Steel	Standard	Kingfisher	3APA1	5
¼"-18	53/64"	Stainless Steel	Standard	Kingfisher	2PA89	10
	53/64"	Steel	Button Head	Kingfisher	5PU35	10
	7/8"	Steel	Standard	Westward	52NZ34	5
¼"-19	13/16"	Steel	Standard	Kingfisher	3ANZ3	10
¼"-28	35/64"	Stainless Steel	Standard	Westward	52NZ73	10
	35/64"	Steel	Standard	Westward	52NZ23	10

Fitting Thread Size	Overall Length	Fitting Material	Grease Fitting Style	Brand	Item No.	Pkg. Qty.
90.0° Head Angle						
M10-1.50mm	21.0mm	Steel	Standard	Kingfisher	1XGK7	10
⅛"-27	27/32"	Stainless Steel	Standard	Westward	52PA05	10
	49/64"	Steel	Thread Forming	Kingfisher	3APA7	10
	27/32"	Steel	Standard	Westward	52NZ59	10
	31/32"	Steel	Standard	Westward	52PA18	10
⅛"-28	3/4"	Steel	Standard	Kingfisher	3ANZ8	10
¼"-18	15/16"	Steel	Standard	Kingfisher	2PA87	10
¼"-28	49/64"	Stainless Steel	Standard	Westward	52PA04	10
	49/64"	Steel	Standard	Westward	52NZ48	10
45.0° Head Angle						
⅛"-27	53/64"	Stainless Steel	Standard	Westward	52PA07	10
	53/64"	Steel	Standard	Westward	52NZ57	10
⅛"-28	61/64"	Steel	Standard	Kingfisher	3ANZ4	10
¼"-18	1 1/8"	Steel	Standard	Kingfisher	2PA86	10
¼"-28	53/64"	Stainless Steel	Standard	Westward	52PA03	10
	53/64"	Steel	Standard	Westward	52NZ49	10



No. 2PA89



No. 52PA04



No. 52PA07

WESTWARD®

Easy Out Grease Fitting Tool Kits

No. of Pieces	Includes	Item No.
Grease Fitting and Installation Tool Kit		
101	⅛"-27 PTF [(22) Straight, (5) 30°, (10) 45°, (10) 65°, (10) 90°], ¼"-28 SAE-LT [(22) Straight, (10) 45°, (10) 90°], Easy Out Tool (Small), Easy out Tool (Large), Plastic Case	5NUF2
101	M6-1mm [(30) Straight, (5) 45°, (10) 90°], M8-1mm [(14) Straight, (5) 90°], M10-1mm [(20) Straight, (5) 45°, (10) 90°], Easy Out Tool (Small), Easy Out Tool (Large), Plastic Case	5NUF3
Easy Out Tool		
—	Hardened Tap for Retapping ¼-28 Holes, Screw Extractor for Removing Worn and Broken Grease Fittings	15F208



No. 5NUF2

Oilers

WESTWARD®

Spout Style	Spout L (in.)	Cap.	Item No.
Pistol Grip Handle with Flat Base			
Rigid	4	6 oz.	2LAH2
Flexible	7	1 pt.	2LAK4
Pistol Grip Handle			
Rigid	4	6 oz.	2LAH7
	6	1 pt.	2LAK3
Flexible	5	6 oz.	2LAH8
	5	6 oz.	2LAK2
Thumb Operated Lever Handle			
Rigid	6	1 pt.	2LAH3
	8	1 qt.	2LAH5
Flexible	5	6 oz.	1EKE7
	6	10 oz.	2LAJ6
	7	13 oz.	2LAJ8
	7	1 pt.	2LAJ1
	9	16 oz.	21EM25
	8	23 oz.	2LAH9
	9	1 qt.	2LAH6

- Tin-plated steel bodies except No. 2LAJ2 is plastic



No. 2LAH7

No. 2LAJ1

WESTWARD®

Reusable Sprayer

Refillable sprayer uses compressed air to deliver a uniform, controlled mist spray of bulk lubricants, penetrants, degreasers, solvents, and cleaners. 80 to 150 psi operating pressure. Top-fill carbon steel canister with blue enamel coating. Not for use with paint.

Cap. (oz.)	Dia. (in.)	H (in.)	Item No.
32	4	7⅞	31ER19









ARO® ★WESTWARD Legacy

Heavy-Duty High Flow (Oil, ATF) Pumps

ARO® Thunder™ Pumps—Stall-free, ice-free air motor design. 85dB. Include 2" bung adapter. ¼" FNPT air inlet.

Westward® Pumps—Oil pumps come complete with bung nut. No. 3APF2 features all-metal, industrial-quality construction. With spigot and piping connectors. No. 3APE7 composite construction allows the pump to operate without using a lubricator unit in the air supply.

Pump Packages—Nos. 4ZT12 and 5TCU6 include pump, control handle, meter (pts.), drum cover, and 6-ft. hose. No. 4TZ12 also has a band dolly.

No. 45CT51's 3:1 pump transfers oils up to SAE 130 up to 30m; with 3.5m hose. No. 45CT52's 5:1 pump dispenses oils up to SAE 240 up to 50m; with hose reel. Both include steel trolley, air-operated oil pump, digital oil control gun, and miniature filter-regulator/lubricator combo with gauge.

Pump Ratio	Air Motor Size (in.)	Container Size	Working Flow Max. (gpm)	Max. Air Inlet PSI	Outlet Pressure Max. (psi)	Fluid Inlet Thread (in.)	Fluid Outlet Thread (in.)	Brand	Item No.
Pumps									
3:1	2	Stub	6	150	450	¾ FNPT	½ FNPT	Aro	**4KK55**
	2	55 gal.	6	150	450	¾ FNPT	½ FNPT	Aro	**4KK57**
	2½	Stub	3.7	115	345	1 FNPT	½ FNPT	Westward	**3APF2**
	2½	—	7.5	115	345	—	¾ MNPT	Westward	**5TCT8**
	2½	55 gal.	7.5	115	345	—	½ MNPT	Westward	**5TCU0**
	2½	275 gal.	7.5	115	345	—	½ MNPT	Westward	**5TCU1**
5:1	3	Stub	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK59**
	3	16 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK60**
	3	55 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK61**
	3	275 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK62**
	—	Stub	4	145	725	1 FNPT	½" FNPT	Westward	**3APE7**
	2½	2.8 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU2**
	2½	55 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU4**
	2½	275 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU5**
Pump Packages									
3:1	2	16 gal.	6	150	450	—	—	Aro	**4ZT12**
	2½	16 gal.	7.5	115	345	—	¾ MNPT	Legacy	**5TCU6**
	2½	55 gal.	3.7	145	435	—	½	Westward	**45CT51**
5:1	2½	56 gal.	4.7	145	725	—	½	Westward	**45CT52**



LINCOLN

Fluid Transfer Pumps

Transfer oil, diesel, kerosene, coolants, petroleum-based fluids, hydraulic oils, and automatic transmission fluid. Fit 16- and 55-gal. containers with 2" bung opening. No. 14U106 is FM Certified for gasoline transfer.

Includes	Max. Output	Mfr. Model	Item No.
Drum Pump			
6 Ft Hose	4 gpm	1335	**6WB29**
Rotary Pump			
8 ft Hose, Aluminum Nozzle and Hanger	10 gpm	1385-H	**14U105**
8 Ft Hose, Non-sparking Dispense nozzle And Hose Holder, Flame Arrestor And Vacuum breaker	10 gpm	1387	**14U106**



★WESTWARD Legacy LubriMatic

Fluid Transfer Pumps

Lever-Action—No. 5NUD4 is for dispensing oils and antifreeze from 15- to 55-gal. drums.

No. 5NUD5 is for dispensing heavy oils from 5-gal. pails. Handle has 3 settings for use with oils of different viscosities.

Rotary—Westward® pumps come complete with 2" cast-iron bung nut and 3-pc. threaded suction tube for use on 15- to 55-gal. drums. No. 5NUD6 works in both directions, to empty and refill drums. No. 5BUD8 has a 3:1 gear pump ratio.

No. 41AA65 transfers light- to medium-viscosity noncorrosive petroleum-based fluids from 55-gal. containers. 1 gal. per 18 revolutions. Spout O.D. 1$^{1}/_{16}$".

Includes	Type	Output	Brand	Item No.
Lever Action Barrel Pump				
1½" and 2" Drum Bung, Steel Discharge Spout, and Telescopic Suction Tube	Lever Action	10 oz. per Stroke	Westward	**5NUD4**
Adjustable and Telescoping Pipe	Oil	10 oz./Stroke	Legacy	**4ZT37**
Lever Action Bucket Pump				
18" Pump with 12" Drum Cover, and 4-ft PVC Hose with Steel Discharge Spout	Oil	Up to 4 oz. per Stroke	Westward	**5NUD5**
Rotary Transfer Pump				
Cast Iron Pump and Handle with Steel Discharge Spout	Oil	8.5 oz. Per Rotation	Westward	**5NUD6**
Aluminum Die Cast Pump and Handle with Security Locking Latch and Steel Discharge Spout	Oil and Fuel	7 oz. Per Rotation	Westward	**5NUD7**
Aluminum Die Cast Pump and Handle with Security Locking Latch and Steel Discharge with 8-ft. Discharge Hose	Oil and Fuel	1 Pint Per Rotation	Westward	**5NUD8**
Cast Iron 2 Vane Pump, 42" Steel Suction Pipe, 7oz. Per Stroke	Single Direction	—	Lubrimatic	**41AA65**



★WESTWARD

Downstroke Flow Pump

For use with 5-gal. containers with plastic pull out (Rieke® spout) or 2" external threads. Choice of 7 adapters for use with most metal and plastic containers.

Hose Length	Output	Item No.
48"	Up to 1.9 oz./stroke	**21EM38**



★WESTWARD LINCOLN

Suction and Transfer Guns

Evacuates and dispenses fluids. No. 3APG2 is a dual-direction transfer gun that draws in and pumps out liquid in a single stroke.

Hose Length	Cap.	Brand	Item No.
Transfer Gun			
(2)4 ft.	12 oz.	Westward	**3APG2**
Suction Gun			
12"	16 oz.	Westward	**1ZTC6**
12"	16 oz.	Westward	**44C503**
12"	18 oz.	Lincoln	**6WB11**



WESTWARD

In-Line Grease/Oil Meters

Measure the flow rate in grease/oil filling systems.

Item	Operating Pressure (psi)	Dial/Digit Totals	Dial Graduation	Item No.
Digital Grease Meter	8000	9999 lbs.	—	**30RZ31**
Digital Oil Meter	1000	99999.9 Units	0.001 Units	**15F217**
Mechanical Oil Meter	1000	99999.9 Quarts	0.10 Quarts	**15F216**

Legacy

Hose Reel Kits

Reels consist of heavy-gauge steel with corrosion-resistant components. Mount in a variety of positions.

Grease Hose Reel Kit—Comes complete with booster gun, 3-ft. lead-in hose with swivel, and 50-ft. grease hose.

Oil Hose Reel Kit—Includes electronic metered oil control gun with 14" flexible extension, 3-ft. lead-in hose with swivel, and 50-ft. oil hose.



Item	Max. Pressure (psi)	Mfr. Model	Item No.
Grease Hose Reel Kit	5000	L8515K	**4ZT51**
Oil Hose Reel Kit	2000	L8525K	**4ZT52**









Fluid Control Meters

GA GRAINGER APPROVED LINCOLN WESTWARD

Use to dispense measured volume of oil and other fluids.
No. 6Y879 features preset countdown indicator up to 60 qt.

Item	Operating Pressure (psi)	Dial/Digit Totals	Dial Graduation	Mfr. Model	Item No.
GA					
Digital Oil Control Gun	7 - 750	5 pint/qt./L/gal.	0.01 pint/qt./L/gal.	—	**5TCV7**
Lincoln					
Analog Oil Meter	1000	16 qt.	¼ Qt.	877	**6Y878**
Oil Control Valve	1000	—	—	758F	**6WB35**
Oil Control Valve	1000	—	—	776	**6WB34**
Analog Oil Meter	1000	60 qt.	1 qt.	3867	**6Y879**
Electronic Lube Meter	1500	10 gpm	pint/qt./L/gal.	980	**6WB36**
Digital Oil Meter	1500	L or gal.	L/gal.	967	**6Y912**
Westward					
Oil Control Gun	—	—	—	—	**5TCV8**
Digital Oil Control Gun	1000	999,999.9 Units	0.001 Units	33RL88	**33RL88**

High Flow Transfer Pumps

Legacy LINCOLN

LINCOLN®

Single-Acting Oil Pumps—Self-priming. No. 1XGN6 is designed for placement in 25- to 275-gal. bulk tanks with supplied bung bushing.

Bare Stub Oil Pumps—No. 1XGP1 self-priming pump develops a suction head up to 25 ft. of oil after priming.

LEGACY™

Stub Design—Pumps are nonicing and have muffled exhaust. Each includes 2" bung adapter. Optional Telescopic Suction Tube No. 4ZT43 is available to fit bulk tank containers. (Not for use with waste oil.)



Note: Choose the pump ratio for your particular application: 1:1 High Volume for transfer through short runs with small pressure drops. 3:1 Medium Volume for use in portable and stationary oil distribution systems composed of pipelines and/or hose reels and fluid meters. 5:1 Heavy-Duty High Volume for use in oil distribution systems with long pipelines and/or hose reels and fluid meters. Pump to multiple bays simultaneously.

Pump Ratio	Consumption @ 100 psi	Min. Air Inlet Pressure	Max. Air Inlet psi	Max. Output	Air Inlet (in.)	Fluid Inlet Thread (in.)	Fluid Outlet Thread (in.)	Pump for Multiple Outlets	Mfr. Model	Item No.
Lincoln										
Single-Acting										
1:1	5 cfm	40	150	3.1 gpm	¼-18	2" Bung	½	Yes	4475	**1XGP4**
3.5:1	7 cfm	40	120	6.0 gpm	¼-18	2" Bung	½	Yes	4491	**1XGN6**
Bare Stub										
3:1	10 cfm	40	200	6.0 gpm	¼	1"F/1.5"M	½	Yes	282396	**1XGP1**
5:1	10 cfm	40	200	6.0 gpm	¼	1"F/1.5"M	½	Yes	84933	**1XGN9**
Legacy										
Stub Design										
1:1	7 cfm	40	140	14 gpm	¼	1	¾	No	L3510	**4ZT44**
3:1	5 cfm	40	140	9.25 gpm	¼	¾	¾	Yes	L3530	**4ZT45**
Optional Accessory										
Telescopic Suction Tube									L3503	**4ZT43**



ALEMITE

Multi-Pressure Bucket Pump

Three-position adjustable lever adapts pump to lubricant type and operating conditions.

Cap.	Outlet Pressure Max. (psi)	Outlet Size	Output	Includes	Item No.
5 gal.	5000	⅜" NPTF	0.33 oz. per Stroke	Button Head Fitting, Plug Button, Hose and Coupler Assembly	**48WC51**



WESTWARD

Gear Oil Pump

Includes pump, 5-gal. container, cover, 5-ft. hose, and discharge spout.

Description	Item No.
Lever-Action Handle	**5TCU8**



LINCOLN

Air-Operated Oil Transfer Pump Systems

- Min. psi Inlet: 40
- Max. psi outlet: 200
- Max. flow: 6 gpm

Pump Ratio	Container Size	Includes	Mfr. Model	Item No.
3:1	55 gal.	Bung Bushing, Volume Union Elbow, Air Coupler, Air Nipple, Lubricant Hose and Air Hose	2424	**2DPL2**
3:1	250/275 gal.	Universal Suction Tube Kit, Air/Lubricant Hose and Bung Bushing	284168	**2DPL4**
5:1	16 gal.	Shut Off Valve, Roll Around Base	2535	**2DPN3**

GRAINGER APPROVED

WESTWARD

Water-Based Parts Washers and Accessories


No. 4KTV9


No. 4KTV7


No. 4KTV6


No. 35MT16

- Powder-coated steel construction
- 120V/60Hz

Fully flexible nozzle and fusible link automatically closes the lid in case of fire. Double driving pump for higher cleaning efficiency. No. 4KTV8 has 4 swivel casters for easy movement. 2 casters have brake function.

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Brand	Item No.
Water Based Parts Washer											
3½ gal.	17	13	8½	9	264 gph	No	No	Components Shelf	Bench Top	Westward	**4KTV9**
20 gal.	30	20⅜	7⅞	37	316 gph	No	No	Oil Tray, Large Drying Shelf and Removable Drain Tank	20 Gauge Steel Moble Work Cart	Westward	**4KTV7**
20 gal.	30	20½	10½	34½	264 gph	No	No	Large Components Shelf and Small Parts Tray	20 Gauge Steel Work Stand	Westward	**4KTV6**
40 gal.	43	20½	10½	35	316 gph	No	Yes	Large Components Shelf and Small Parts Tray	18 Gauge Steel Work Stand	Westward	**4KTV8**
Aqueous Duel Basin Parts Washer											
40 gal.	43	20⅝	10¼	35	316 gph	No	Yes	Lift Off Cover with Safety Plate	18 Gauge Steel Work Stand	Westward	**35MT16**

Description	Type	Brand	Item No.
Parts Washer Accessories			
Cleaning Brush with 1½"L Nylon Bristle and Tapered Wood Handle	Round	Westward	**20Y118**
Oil Sorbent Pads, 16" x 20", Pkg. of 25	Single Ply	GA	**20Y117**
Flow-Thru Nylon Bristle Brush with 2-ft. Flexible Hose	20" Hose Length	Westward	**20Y119**


No. 45TV51


No. 45TV52

CRC

Water-Based Mobile Parts Washers

SmartWasher® bioremediating parts washing systems are conveniently packaged with high-performing, heavy-duty SW4 OZZY JUICE® water-based cleaning/degreasing solution and FL-4 OZZYMAT multilayer filter to remove oil, grease, and other contaminants from parts. The process is designed to help avoid the need to replace cleaning solution, reducing downtime, and to eliminate hauling and disposal of hazardous waste fluid.

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Series	Mfr. Model	Item No.
Water Based Parts Washer											
Thermoplastic Work Stand											
25 gal.	22½	30	8	47	300 gph	Yes	Yes	(2) Brush Stations, Light Kit, Parts Basket	SW-28XE SUPERSINK XE	14710	**45TV46**
Water Based Parts Washer Kit											
Thermoplastic Moble Work Cart											
15 gal.	27	23	8	50	300 gph	No	Yes	SW23 Unit, (3) 5 gal. SW4 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-423	14740	**45TV51**
15 gal.	27	23	8	50	300 gph	No	Yes	SW23 Unit, (3) 5 gal. SW7 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-723	14743	**45TV54**
25 gal.	33	27	8	55	300 gph	No	Yes	SW37 Unit, (5) 5 gal. SW4 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-437	14741	**45TV52**
25 gal.	33	27	8	55	300 gph	No	Yes	SW37 Unit, (5) 5 gal. SW7 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-737	14742	**45TV53**
Thermoplastic Work Stand											
25 gal.	22½	30	8	42	300 gph	No	Yes	SW28 Unit, (5) 5 gal. SW4 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-428 SuperSink	14757	**52GZ94**
25 gal.	22½	30	8	42	300 gph	No	Yes	SW28 Unit, (5) 5 gal. SW7 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-728 SuperSink	14759	**52GZ96**
25 gal.	22½	30	8	42	300 gph	Yes	Yes	SW28XE Unit, (5) 5 gal.SW4 OzzyJuice® Fluid, FL4 OzzyMat® Filter	SW-428XE SuperSink	14763	**52HA01**

Description	Mfr. Model	Item No.
Accessories		
SmartWasher® FL-3 OZZYMAT™ Single Layer Fluid Activation Mat	14149	**5YK88**
SmartWasher® FL-4 Ozzymat™ Multi-Layer Fluid Activation Mat	14124	**1CXK2**



No. 453D06


No. 43NR93

Solvent-Based Parts Washers

Zep PROFESSIONAL

- All steel construction
- Spring-loaded lids with 165° fire link
- Directional spouts with On/Off control

Washers circulate solvents to remove grease and oil from automotive parts. Filters trap contaminants to extend solvent life. Model 5100 filtration systems have 50-micron polypropylene particulate filters with visible filter bowls. Dyna-Trap filter bags remove oils and greases from solvent. Filters remove particles down to 10 microns. Only the filter elements are disposed of. Fire links close lids automatically in the event of a fire. No. 43NR93 has baked-on enamel finish. No. 453D06 has powder-coat finish.

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Item No.
Solvent Parts Washer										
30 gal.	32	22	10	40	168 gph	No	Yes	Oriflo Brush, (2) Trap Filter Bags, Trap Cover, 20 gal. of Dyna 143	30 gal Drum Pedestal	**453D06**
35 gal.	24	28	11	43	168 gph	No	Yes	Heavy Duty Work Stand, Lower Storage Shelf, 50 Micron Filter	16 Gauge Steel Work Stand	**43NR93**

Item	Type	Mfr. Model	Item No.
Parts Washer Accessories			
Dyna Trap Filter Bag	—	903402	**43NR87**
Filter Cartridges 5110	10 Micron	904902	**453D26**
Filter Cartridges 5150	50 Micron	905502	**43NR88**

Solvent-Based Parts Washers and Chemicals

Graymills

- Powder-coated steel construction
- 115V/60 Hz

Manual washers feature fusible safety link that closes the lid in event of fire. The lid is spring-loaded on Clean-O-Matic™ models. For handheld brush cleaning, add optional Flow-Thru Brush No. 45NW41, available on Grainger.com®. Deluxe Drum-Mount and Clean-O-Matic washers comply with most freeboard compliance regulations. All units are ETL Certified for U.S. and Canada.

Solvent Drum Mount—Can be placed at jobsite for on-the-spot cleaning. Proprietary retractable pump reduces lifting height to minimize back strain. Include flexible metal flush hose, drain filter, and adjustable work light.

Handi-Kleen™—Tanks have bottom drains for easy cleanout. Seal-less machine tool-grade pump produces 400 gph of carefree operation. No. 3Z746 work shelf supports parts above fluid level and is removable for access to soak tank. Features flush hose and filter basket.

Clean-O-Matic™—Provide 3-way cleaning action delivered by directed steam, flush hose, or in-tank agitation. Include filtration system, 2400 gph cast-iron pump, and bilevel work shelves. No. 4KTX1 also includes casters. No. 4KTX2 is sized for engine blocks, transmissions, and compressors.

Aqueous—Heated washer converts soak-to-sink and back again for configurations tailored to your needs. Corrosion-resistant construction with thermostatically controlled heat up to 110°F and GFCI protection. Unit includes drain screen, in-line canister filter, flow-through brush, flexible stay-put flush hose, and low-liquid protection.


No. 4KTX1


No. 3Z746


No. 3Z901


No. 38ZK81

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Mfr. Model	Item No.
Solvent Parts Washer											
Clean-O-Matic™											
42 gal.	32	21	10	37	2400 gph	No	Yes	Spray Nozzle, Flush Hose, Agitation Manifold, and Removable Work Shelf	16 Gauge Steel Work Stand	500-A	**4KTX1**
117 gal.	38	28	17	38	2400 gph	No	Yes	Spray Nozzle, Flush Hose, Agitation Manifold, and Removable Work Shelf	16 Gauge Steel Work Stand	900-A	**4KTX2**
Handi-Kleen™											
15 gal.	29½	15½	6	39	400 gph	No	Yes	Removable Workshelf and Small Parts Basket	16/18 Gauge Steel Work Stand	PL36-A	**3Z746**
42 gal.	36	22	10	39	400 gph	No	Yes	Removable Workshelf and Small Parts Basket	16/18 Gauge Steel Work Stand	PL422-A	**3Z814**
Solvent Drum Mount											
16 gal.	32	18	8¾	37½	170 gph	Yes	Yes	Worklight and Retractable Pump	16 gal Drum Pedestal	DMD232	**3Z901**
30 gal.	36	20	8¾	39½	170 gph	Yes	Yes	Worklight and Retractable Pump	30 gal Drum Pedestal	DMD236	**3Z986**
Aqueous Parts Washer											
Aqueous											
30 gal.	35	21½	9	38	300 gph	No	Yes	Work Brush, Flush Hose, and Removable Work Shelf	Thermoplastic Moble Work Cart	PH922-A	**38ZK81**

Parts Washer Chemicals

BIO-CIRCLE Environmental Solutions · B'laster · CRC · Graymills · Oil Eater · ZEP Professional

Bio-Circle®—Solvent-free, bio-remediating parts cleaners and degreasers safely remove grease, oil, and grime from all steels and most aluminum alloys. Cleaners are nontoxic, nonflammable, VOC-free, and safe on skin.

B'laster®—Safely and quickly removes oil, grease, and grime from metals, most plastics, and painted surfaces without leaving any residue.

CRC®—Aqueous, industrial-strength degreasing solutions are PH-neutral, VOC-free, noncorrosive, nonflammable, and biodegradable. For parts cleaning in preventative maintenance and repair facilities, industrial manufacturing plants, automotive repair shops, and metal fabrication facilities.

Graymills—Parts washer solvents are for cleaning in Graymills parts washers. Biodegradable aqueous cleaners remove organic and inorganic soils including grease, oil, epoxy, paint, plating salt, and rust. Bioremediating aqueous cleaners are pH-neutral to help the microbial process in Graymills Bioremediation parts washers.

Oil Eater®—Powerful formulas dissolve grease and grime from almost any surface; feature anticorrosion chemistry. Original formula parts cleaner is a versatile, alkaline-based product. Orange-scented solution is a highly concentrated water-based alkaline cleaner.

ZEP—Odorless parts washer solvents are safe to use on all metals. Thy leave a light oil film to protect against rust and corrosion. Solvents with citrus are fortified for extra cleaning power. Recirculating spray wash powder detergent for hot vat or recirculating spray wash cabinets removes grease and industrial soils.


No. 4TKJ7


No. 16W543


No. 45TV50


No. 2W352


No. 4NHH6


No. 449V39

Description	For Use With	Type	Size	Flash Point (°F)	Color	Mfr. Model	Item No.
Bio-Circle							
BIO-CIRCLE L™ Parts Washer Cleaning Solution	BIO-CIRCLE® Parts Cleaning Systems	Water Based	5.2 gal	None	Cloudy	55A007	**4TKJ7**
BIO-CIRCLE L™ Parts Washer Cleaning Solution	BIO-CIRCLE® Parts Cleaning Systems	Water Based	55 gal	None	Cloudy	55A008	**4TKJ8**
BIO-CIRCLE ULTRA™ Parts Washer Cleaning Solution	BIO-CIRCLE® Parts Cleaning Systems	Water Based	5.2 gal.	None	Cloudy	55A107	**38N831**
CB 100™ Cleaner Degreaser	BIO-CIRCLE® Parts Cleaning Systems	Aqueous	55 gal.	248°	Clear	53G168	**34NK14**
Blaster							
Parts Washer Solvent	Solvent Parts Washers	Solvent	1 gal.	145	Clear	128-PWS	**16W543**
CRC							
OzzyJuice® SW-1 Parts Washer Cleaning Solution	Degreasing Solution	Water Based	5 gal.	None	Clear	14156	**1CXK1**
OzzyJuice® SW-3 Parts Washer Cleaning Solution	Truck Grade Degreasing	Water Based	5 gal.	None	Clear	14720	**45TV48**
OzzyJuice® SW-4 Parts Washer Cleaning Solution	Heavy Duty Degreasing	Water Based	5 gal.	None	Orange	14148	**5YK87**
OzzyJuice® SW-7 Parts Washer Cleaning Solution	Parts/Brake Cleaning	Water Based	5 gal.	None	Clear	14721	**45TV49**
OzzyJuice® SW-8 Parts Washer Cleaning Solution	Aircraft & Weapons Degreasing	Water Based	5 gal.	None	Clear	14722	**45TV50**
OzzyJuice® SW-8 Parts Washer Cleaning Solution	Aircraft & Weapons Degreasing	Water Based	55 gal.	None	Clear	14724	**52GZ75**
Graymills							
Aquatene 330 Biodegradable Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal.	None	Green	GM330-C5	**5W274**
Regular Agitene™ 141 Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal.	141	Blue	M2062-141	**12Y139**
Super Agitene™ Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal.	105	Green	M5005	**2W352**
Super Agitene™ 141 Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal.	141	Green	M5005-141	**2RE49**
Super Biotene™ 550 Bioremediating Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal.	None	Brown	GM550GR	**4WT03**
Turbo Biotene™ 880 Bioremediating Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal.	None	Clear	GM880-5	**12Y141**
Oil Eater							
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	1 gal.	None	Yellowish	AOD1G35437	**4NHH6**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	5 gal.	None	Yellowish	AOD5G35438	**4NHH7**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	30 gal.	None	Yellowish	AOD3035444	**4NHH8**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	55 gal.	None	Yellowish	AOD5535389	**4NHH9**
Parts Washer Cleaning Solution with Orange	Cleaner & Degreaser	Water-Based	5 gal.	None	Orange	AOD5G11904	**4NHJ1**
Parts Washer Cleaning Solution with Orange	Cleaner & Degreaser	Water-Based	55 gal.	None	Orange	AOD5511906	**4NHJ2**
Zep							
Parts Washer Solvent	Solvent Parts Washers	Solvent	55 gal.	143	Clear	1041638	**4UZE7**
Parts Washer Solvent with Citrus	Solvent Parts Washers	Solvent	5 gal.	142	Clear	1041597	**4UZE8**
Recirculating Spray Wash Detergent	Spray Wash Systems	Powder	40 lb.	None	White	1041743	**4UZF1**
Water-Based Parts Washer Concentrate	Water-Based Parts Washing	Water Based	5 gal.	212	Light Green	1041599	**4UZF2**
Citrus Parts Washer Cleaning Solvent	Solvent Parts Washers	Petroleum/D-Limonene	55 gal.	142	Clear Colorless	1041639	**4UZE9**
Dyna 143 Parts Washer Solvent	Solvent Parts Washers	Solvent	5 gal.	143	Clear	036635	**43NT10**
Dyna 143 Parts Washer Solvent	Solvent Parts Washers	Solvent	20 gal.	143	Clear	36650	**449V39**
Zone Defense Parts Washer Cleaning Solution	Solvent Parts Washers	Solvent	5 gal.	142°	Clear Yellowish	J32835	**453D44**

HEIN-WERNER AUTOMOTIVE

Hydraulic Service Jacks


No. 4CWJ7

Feature dual-leveling mechanism and reinforced flanged side frames. Air/Hydraulic models with T-handle house the air connection and release valve for operation.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
Hydraulic Service Jack							
2 tons	4½"	20"	15½"	28½"	48"	HW93642W	**4CWJ6**
3 tons	5¼"	23½"	18½"	31½"	50"	HW93652W	**4CWJ7**
4 tons	5⅛"	26½"	21"	48"	51¾"	HW93657	**4CWJ8**
10 tons	6¾"	25½"	18¾"	53½"	56"	HW93660	**4CWK1**
Air/Hydraulic Service Jack							
4 tons	5½"	26½"	21"	48"	51¾"	HW93667	**4CWK4**
10 tons	6½"	25½"	19"	54"	53"	HW93662	**4CWK2**

Service Jacks

OMEGALIFT

- Side frame handles allow easy carrying
- Extra-wide wheels add stability under stress
- U-joint assembly for precise load control on Nos. 48NU10 and 48NU12
- Dual-piston speedy lift on No. 48NU11

No. 48NU10 is all aluminum for strength and stability. Nos. 48NU11 and 48NU12 aluminum/steel design combines lighter weight and strength for long life.


No. 48NU10

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
Hydraulic Service Jack							
3 tons	4"	18⅛"	14¼"	26"	47½"	26030	**48NU10**
Hybrid Service Jack							
1½ tons	3½"	14"	10½"	19"	47½"	26017	**48NU11**
3 tons	4"	19"	15"	19"	47½"	26033	**48NU12**


No. 48XV22

OTC

Hydraulic Service Jacks

Built-in safety overload prevents using jack over its rated capacity. Easy-to-use foot pedal helps with lifting. Handle lock and release control are located in handle. Lock handle in any position from horizontal to vertical.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
Hydraulic Service Jack							
3½ tons	4"	21"	21"	32½"	48"	1526A	**48XV22**
10 tons	6¼"	22"	22"	21"	43¼"	1510B	**48XV73**
Air/Hydraulic Service Jack							
5 tons	5⅞"	22"	22"	63"	40"	1507B	**48XV52**


No. 48XV46

No. 54HH24

OTC OMEGALIFT

Hydraulic Service Jack Sets

OTC—Built with flanged upper body edge that increases strength and help resist twisting. Light and compact with rear swivel casters for easy maneuvering and positioning. Includes two jack stands.

Omegalift—Designed with counter-weighted pawl to lock ratchet bar in place. Includes foam handle cover and two jack stands.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
OTC							
3 tons	5¾"	18½"	21"	24½"	39½"	5300	**48XV46**
Omegalift							
2½ tons	3⅜"	19½"	20"	26½"	46"	25055	**54HH24**

WESTWARD

Hydraulic Service Jacks


No. 3ZC65

Equipped with a built-in bypass device to prevent damage to jack from overpumping.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Item No.
Quick Lifting Function Service Jack						
2 tons	4⅜"	20"	15⅝"	29½"	49⅛"	**34NK71**
Hydraulic Service Jack						
2 tons	3½"	17¾"	13¾"	27⅛"	47¼"	**25WF43**
2½ tons	5"	16½"	11⅜"	24½"	24¾"	**3ZC65**
2½ tons	5½"	19¼"	4⅜"	21¾"	46⅛"	**32EY95**
3½ tons	4"	21⅜"	17⅜"	30⅞"	49⅞"	**13X032**
4 tons	5"	24"	19"	47⅜"	40⅝"	**1ZKX4**
5 tons	7"	27"	20"	55⅜"	40⅝"	**1ZKX6**
5 tons	6½"	22¼"	15¾"	52¾"	46"	**5ML69**
10 tons	7⅛"	27⅛"	20"	55"	45"	**1ZKX5**
10 tons	6⅞"	27"	20⅛"	51½"	45⅞"	**5ML70**
Air/Hydraulic Service Jack						
4 tons	5"	24"	19"	50⅝"	40⅝"	**5M455**
5 tons	27"	7"	20"	55⅜"	47¼"	**5M456**
10 tons	7⅛"	27⅛"	20"	55"	45"	**1ZKX9**


No. 11N155

GRAY

Air/Hydraulic Service Jack

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
Air/Hydraulic Service Jack							
6 ton	4 ¾ in	23 ¼ in	18 ½ in	48 in	47 ¾ in	FSJ-120	**11N155**
10 ton	7 in	27 in	20 in	53 ½ in	47 in	FSJ-200	**11N148**



OTC

Aluminum Racing Jack

Low-profile for ground hugging performance cars. 2-pc. side-mounted handle for easy handling.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Pumps to Reach Max. Height	Chassis Length	Handle Length	Mfr. Model	Item No.
2 ton	3 ¼ in	18 ⅝ in	5	25 in	47 ⅝ in	1532A	**3GZT5**


No. 1MZK7

WESTWARD

Hydraulic Spider Jack

Rotates 360° for maneuverability and easy placement.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Chassis Length	Handle Length	Item No.
2½ tons	5½"	15¼"	22"	19⅝"	**1MZK7**

Air/Hydraulic Jacks

AXLE JACKS

No. 5M459 has a capacity of 35 tons and a lift range up to 15⅜" on first ram piston. Second ram system has a capacity of 22 tons and a lift range up to 19½".

END LIFTS

Nos. 4CWK6 and 4CWK5 feature a 3-way heavy-duty air valve for precise control. Lifting arms can be extended for greater versatility. Safety latch design has 5 auto safety lock positions to help prevent unintended lowering of load. No. 11N135 provides up to 30" of stroke. Pneumatic wheels ease maneuvering unit into position. Lifting saddles extend easily for a variety of lifting positions.

TRUCK JACK STANDS

Air jack and support stand all in 1 unit. Adjustable ram allows a variety of starting heights. No. 11N164 includes 10-ft. air hose and removable handle.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Handle Length	Item	Brand	Mfr. Model	Item No.
Air/Hydraulic Axle Jack							
20 tons	9"	19¾"	52½"	1	Hein-Werner	HW93733	**4CWL2**
20 tons	9¼"	17½"	39½"	1	Hein-Werner	HW93731	**4CWL1**
22 or 35 tons	8⅛"	19⅜"	40⅞"	1	Westward	5M459	**5M459**
22 tons	8¼"	20⅝"	49½"	1	OTC	1788B	**48XV59**
22 tons	8½"	17"	41½"	1	Westward	13X030	**13X030**
22 tons	9¾"	19¼"	41½"	1	Westward	3W929	**3W929**
25 tons	8"	21"	53"	1	Gray	TSL-50	**11N139**
25 tons	8¼"	21½"	53"	1	Hein-Werner	HW93735A	**4CWL4**
30 tons	11⅛"	18"	40¾"	1	Westward	13X031	**13X031**
35 tons	9¼"	22"	58"	1	Gray	TSL-70	**36G634**
Hydraulic Axle Jack							
27½ tons	8¼"	21⅜"	48¾"	2	OTC	5292	**48XV45**
Air Operated End Lift							
10 tons	12½"	46"	—	4	Hein-Werner	HW93690	**4CWK5**
10 tons	14"	50"	22"	4	Gray	KL-20	**11N135**
2½ tons	11"	35⅜"	—	4	Hein-Werner	HW93696A	**4CWK6**
Air Jack Stand							
10 tons	17½"	52½"	29"	5	Gray	TAJS-2000	**11N136**
10 tons	17¾"	40"	38"	5	Hein-Werner	HW93737A	**4CWL6**
10 tons	18¼"	51¼"	40"	5	OTC	1591B	**38EG21**
15 tons	17⅜"	52¼"	36½"	5	Gray	TAJS-3000	**11N164**



Hydraulic Bottle Jacks

Internally protected from overjumping and overloading.

Air/Manual—Manual function allows normal operation anywhere, even without an air supply. Recommended air supply: 90 to 175 psi (at least 3 HP recommended).

In-Line Pumps—Feature a heat-treated extension screw that allows for low pick-up height adjustment and maximum lift height. Centered pump and ram for easy positioning.

Side Pumps—Use vertically (not upside down) or at angles not more than 5° from vertical position. Nos. 3ZC56 and 3ZC57 feature low profiles.

Telescoping—Provide a high lift with a minimum collapsed height.









Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Extension Screw	Base Size	Brand	Item No.
Air/Manual						
12 tons	9½"	18½"	3½"	7⅞" x 6⅜"	Westward	**1ZKX7**
20 tons	9¾"	18¾"	4"	8½ x 7¼"	Westward	**1ZKX8**
30 tons	11"	18⅛"	—	10¼" x 8¼"	Westward	**1AVR5**
In-Line Pumps						
2 tons	7"	14"	2⅜"	4⁵⁄₁₆" x 2⁹⁄₁₆"	OTC	**52YA23**
	7⅛"	13⅝"	1¹⁵⁄₁₆"	4⅜" x 3¹⁄₁₆"	Westward	**35MT08**
5 tons	7³⁄₁₆"	15⅝"	3"	5³⁄₁₆" x 3"	OTC	**52YA24**
	7⅞"	15½"	2¾"	5⁹⁄₁₆" x 3⅝"	Westward	**35MT09**
8 tons	7¹³⁄₁₆"	15¾"	3"	6" x 3⁹⁄₁₆"	OTC	**52YA25**
12 tons	6¾"	13⅜"	3"	6¹³⁄₁₆" x 4¹¹⁄₁₆"	Westward	**35MT10**
	7¹⁄₁₆"	13⅝"	2⅞"	6⁹⁄₁₆" x 4³⁄₁₆"	OTC	**52YA28**
	9⅜"	18⅝"	3¼"	6⁹⁄₁₆" x 4³⁄₁₆"	OTC	**52YA26**
	9½"	18½"	3⅛"	6¹³⁄₁₆" x 4¹¹⁄₁₆"	Westward	**35MT11**
20 tons	7⅛"	12"	1½"	7⅝" x 5¹¹⁄₁₆"	Westward	**35MT12**
	7³⁄₁₆"	12⁵⁄₁₆"	1¹¹⁄₁₆"	7" x 4¹¹⁄₁₆"	OTC	**52YA29**
	10⅝"	16⅞"	1½"	7⅝" x 5¹¹⁄₁₆"	Westward	**35MT13**
	10⅝"	20¹⁄₁₆"	2¹⁵⁄₁₆"	7" x 4¹¹⁄₁₆"	OTC	**52YA27**
Side Pumps						
2 tons	7⅛"	13¾"	2"	3¾" x 3⅝"	Westward	**3ZC58**
4 tons	8⅛"	15½"	2⅜"	4" x 3⅞"	Westward	**3ZC59**
6 tons	8½"	16⅝"	3"	4⅜ x 4"	Westward	**3ZC60**
8 tons	8⅞"	17⅜"	2¾""	4¾" x 4¾"	Westward	**3ZC61**
12 tons	6"	10¾"	1⅝"	5¼" x 5⅛"	Westward	**3ZC56**
	9⅜"	18½"	3⅛"	5¼" x 5⅛"	Westward	**3ZC62**
20 tons	6½"	11¼"	1⅝"	6¼" x 5¾""	Westward	**3ZC57**
	9½"	18⅝"	3⅛"	6¼" x 5⅞"	Westward	**3ZC63**
30 tons	11"	18"	—	8⅛ x 6⅞"	Westward	**3ZC64**
Telescoping						
5 tons	6¼"	15¼"	2⅜"	5⅝" x 5⅝"	Westward	**35MT14**
10 tons	8¾"	18"	2⅜"	6¾" x 6⅝"	Westward	**35MT15**
12 tons	9⅞"	22²¹⁄₆₄"	13³²⁄₃₂"	5⁴³⁄₆₄" x 6¹⁄₁₆"	OTC	**407K07**



Jack Stands

▪ Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Height (in.) Max.	Base Size (in.)	Mfr. Model	Item No.
7	9½	16	7½ x 7½	7TF	**11N147**
7	12	20	9	7THF	**36G633**
10	20	32	14 x 14	10TF	**11N150**
10	30	52	24	10THF	**36G640**
25	12	20	10 x 10	25TF	**11N151**
25	20	32	13 x 13	25THF	**11N152**
35	21	33¼	13	35THF	**36G642**
35	13½	21	10	35TF	**36G641**



Jack Stand

▪ Sold as a Pair

Sturdy, welded steel construction for superior strength and safety. Heavy-gauge steel frame helps prevent distortion or twisting.

Lifting Cap. (tons)	Height (in.) Min.	Height (in.) Max.	Base Size (in.)	Mfr. Model	Item No.
22	13	19.9	11 x 11	14400	**33W483**
3	13	21½	12 x 12	14980	**33W485**
3	19	31½	19½ x 19½	14985	**33W486**



Jack Stands

▪ Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Height (in.) Max.	Base Size (in.)	Mfr. Model	Item No.
Ratchet Style					
3	12⅛	19	9 x 7½	HW93503	**4CWN3**
6	16⅜	25⅜	13 x 10½	HW93506	**4CWN4**
Pin Style					
7	9½	15¾	7½ x 7½	HW93524F	**4CWN5**
10	20	31½	16 x 16	HW93512	**12G750**
10	30	52	19 x 19	HW93511	**12G749**
25	12¼	20	10 x 10	HW93526F	**12G751**



Jack Stands

▪ Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Height (in.) Max.	Base Size (in.)	Item No.
4 (Per Pair)	11⅞	18⅛	8¼ x 7½	**5M475**
6 (Per Pair)	15¾	24⅜	9¾ x 11³⁄₁₆	**13X035**
10 (Per Pair)	27⅞	47⅜	16⅛ x 16⅛	**4GU80**
12 (Per Pair)	19⅞	30¼	12⅞ x 14⅜	**13X036**
22 (Per Pair)	12⅛	19⅝	9⅞ x 9⅞	**1AVP8**





Jack Stands

▪ Recommend use in pairs

Lifting Cap. (tons)	Height (in.) Min.	Height (in.) Max.	Base Size (in.)	Mfr. Model	Item No.	Pkg. Qty.
Round Base						
12	19	29½	16	1778B	**1EAY6**	1
12	33¾	44¼	16	1779B	**1EAY7**	1
Square base						
3	12	17¹¹⁄₁₆	8¼ x 7½	5372	**52YA20**	2
6	15⅝	23¹¹⁄₁₆	11⁹⁄₁₆ x 10⅜	5373	**48XV48**	2
20	15¼	24	15½	1783	**1EAW4**	1
22	13⅞	19⅞	11	1780	**48XV25**	2
2	9½"	15³⁄₃₂"	14	1582A	**416L24**	1

OTC Lifetime Marathon Warranty®


No. 5ML71


No. 11N145


No. 4CWJ9

WESTWARD GRAY HEIN-WERNER AUTOMOTIVE OTC

Hydraulic Forklift Jacks

No. 5ML71 is designed for lifting one corner of a forklift for the purpose of service and/or repair of forklift components. Nos. 4CWJ9, 11N145, and 11N154 lift pads manage most forklift configurations. No. 48XV70 handles most lift truck configurations with flat or edged surfaces.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Base Length	Handle Length	Brand	Mfr. Model	Item No.
4 tons	3"	17½"	14½"	29¾"	29½"	Westward	5ML71	**5ML71**
4 tons	2¼"	16"	13¾"	27"	29"	Gray	FLJ-400C	**11N145**
4 tons	2½"	16½"	14"	26½"	25"	Hein-Werner	HW93659	**4CWJ9**
4 tons	2 3/32"	28¾"	17 15/16"	—	—	OTC	5214	**48XV70**
7¾ tons	2¼"	16"	13¾"	27"	27"	Gray	FLJ-770B	**11N154**

OTC WESTWARD HEIN-WERNER AUTOMOTIVE GRAY

Transmission Jacks

Flexible saddles have both side and tilting angle adjustments to accommodate different shapes and sizes of transmissions and differentials. Fully-adjustable tilting heads.



No. 1VW35

Lifting Cap. (lb.)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Base Size (in.)	Brand	Mfr. Model	Item No.
1100	9	24¾	28¾ x 15	Westward	1ZKY1	**1ZKY1**
2000	6⅞	35½	26	OTC	1522A	**48XV72**
	7⅞	33½	39⅜ x 19⅛	Westward	1ZKY3	**1ZKY3**
	10¼	44¾	28¼ x 47½	Hein-Werner	HW93718	**4CWK7**
2206	8	34	28¼ x 44½	Gray	MM-2000	**11N141**
3000	7⅞	37¼	46¾ x 25⅝	Westward	1VW35	**1VW35**


No. 55JC16

No. 1MZK6

No. 5JJL6

WESTWARD REESE™

Scissor and Farm Jacks

Scissor jack is perfect for emergency roadside assistance. Durable, multipurpose farm jack has ratcheting design for controlled lift.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Brand	Item No.
Scissor Jack				
1½ tons	4½"	14"	Westward	**55JC16**
Farm Jacks				
3 tons	5¼"	39¾"	Westward	**1MZK6**
3½ tons	4½"	48"	Reese	**5JJL6**
4 tons	4½"	48"	Reese	**45C166**
Jack Accessory				
Farm Jack Foot Plate			Reese	**6ZAT8**


No. 1VW31

WESTWARD

Hydraulic Toe Jacks

For very low clearance vehicles.

Lifting Capacity	Toe Height Min.	Toe Height Max.	Base Size (in.)	Handle Length	Item No.
5 tons	⅞	5¾	11 x 7½	23⅜"	**1VW31**
10 tons	1	16	11¾ x 9	23⅜"	**1AVP7**


No. 1VW33


No. 1VW34

WESTWARD OTC GRAY

Auxillary and Tripod Stands

Designed to help prevent the tipping/rocking of a vehicle while the vehicle is engaged on an automotive lift.

Lifting Cap. (tons)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Saddle Size (in.)	Brand	Mfr. Model	Item No.
Auxiliary Stand						
¾	55"	80"	5 ¼ x 1 ½	Westward	1VW33	**1VW33**
Tripod Stand						
2	67"	76"	5¼ x 1½	Westward	1VW34	**1VW34**
2	56 1/32	85	3/16 x 3/16	OTC	2018A	**35YZ92**
Vehicle Stands						
9	48¾	84	5 X 5	Gray	9THR Stand	**11N153**


No. 5M466

No. 1EAW2

Transmission Lifts

WESTWARD HEIN-WERNER AUTOMOTIVE GRAY OTC

Hydraulic—Metered release valve assures precise adjustment of saddle height and smooth lowering of load.

Air/Hydraulic—Air allows mounting head to rise rapidly in the first stage, while hydraulic power provides precision in the second stage.

Electric/Hydraulic, Scissor—Design permits access to all four sides of a component. Width between wooden support blocks adjusts from 0" to 29". Includes 30-ft. attached retractable extension cord, handheld remote, and nylon securing strap.

Lifting Cap. (lb.)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Tilt Cap. (°) Front	Tilt Cap. (°) Rear	Tilt Cap. (°) Side	Base Size (in.)	Brand	Mfr. Model	Item No.
Hydraulic									
700	57¼	76⅜	14.0°	14.0°	14°	36⅛ x 32⅝	Westward	1AVR4	**1AVR4**
1000	39⅜"	77¼"	35.0°	18.0°	11°	41¼ x 41¼	Hein-Werner	HW93720	**4CWK8**
	39½	78⅛	10.0°	7.0°	12°	33⅜ x 36	Westward	5ML72	**5ML72**
	35	71⅝	22.0°	18.0°	20°	37⅛	OTC	1793A	**48XV74**
	34½	75	50.0°	20.0°	10°	41	OTC	5237	**48XV41**
	34½	75	50.0°	20.0°	10°	41	OTC	1728	**48XV24**
Air/Hydraulic									
1000	34½	72	40.0°	20.0°	10°	41	Gray	HTJ-1000	**11N137**
	37¾	78⅛	12.0°	7.0°	12°	33½ x 36¼	Westward	5M466	**5M466**
2200	48⅝"	77⅜"	45.0°	30.0°	15°	42½ x 39½	Westward	13X041	**13X041**
1650	31½	74½	—	—	—	48	OTC	5285	**48XV44**
1000	37⅞	76½	40.0°	38.0°	12°	37⅛	OTC	1794A	**48XV60**
Transmission Lifts									
2206	30	72	10.0°	10.0°	10°	42 x 49	Gray	HTCJ-2000	**11N157**
Electric/Hydraulic, Scissor									
2500	29	80	15.0°	15.0°	15°	33 x 48	OTC	1595A	**1EAW2**



WESTWARD

Hydraulic Cranes

Adjustable boom allows for multiple lift capacities. Lift capacity diminishes as boom lengths are extended. No. 3ZC71 has adjustable front and rear legs. No. 3ZC72 features space-saver design for compact storage.

Boom Cap. Position	Boom Cap. (lbs.)	Boom Length (in.)	Hook Height (in.) Min.	Hook Height (in.) Max.	Item No.
Hydraulic Cranes					
P1	1500	39⅛	9⅝	78⅛	
P2	1000	43⅛	5⅞	80¾	**5ZC10**
P3	500	47⅛	2	83½	
P1	2000	47	12	85⅜	
P2	1500	53	6¼	87¾	**3ZC72**
P3	1000	59	¾	90½	
P1	4000	48¾	18⅜	69¼	
P2	3000	57¾	14	75	**3ZC71**
P3	2000	66¾	9¼	81	
P4	1000	76¾	5	86½	
Lifting Cap. (tons)		**Fit Crane Nos.**			
Hydraulic Replacement Crane Jacks					
4		5ZC10			**5M471**
8		3ZC71, 3ZC72			**5M472**
Air/Manual Hydraulic Replacement Crane Jacks					
8		3ZC71, 3ZC72			**5M460**

Floor Crane

GRAY

- A versatile, mobile shop crane with air/hydraulic pump
- Adjustable boom allows for multiple capacities in one crane
- Adjustable leg width: 22", 36", 50"

Hydraulic ram has metering release valve for lowering boom at a controlled rate. Legs easily adjust for clearance allowing user to move this floor crane where it's needed. Large 6"-dia. casters also make it easy to maneuver crane into position. Folds for compact storage.



Boom Cap. Position (lb.) 1	2	3	Boom Reach (in.) Extended	Retracted	Max. Boom HTG (In.) Extended	Retracted	Mfr. Model	Item No.
2000	1900	1650	48	33	125	22	SC220 Air	**36G636**
4400	3800	3300	50¾	35¾	130	119	SC440 Air	**36G637**

WESTWARD HEIN-WERNER AUTOMOTIVE OTC

Engine Stands

Long rubber grip handle allows easy engine rotation. Head swivels 360° with an adjustable locking mechanism. Adapter arms hold engine secure for head and shaft removal.



Cap. (lb.)	Dim. (in.) L	W	H	Mfr. Model	Item No.
Westward					
750	31½	31½	36¾	3W931	**3W931**
1250	33⅜	33⅞	42¾	3ZC70	**3ZC70**
Hein-Werner					
1250	36	35	34	HW93778	**4CWN1**
OTC					
1000	21	21	40½	1726A	**48XV56**

OTC

Diesel Engine Stand

- OTC Lifetime Marathon Warranty®

96-to-1 ratio worm and gear set rotates components 360°; handle locks in any position. Integral 12-ton jack raises the work to provide the swing radius needed for clearance.



Cap. (lb.)	Dim. (in.) L	W	H	Mfr. Model	Item No.
6000	56	48	35	1750	**19XY56**



GRAY

Wireless Portable Lift System

- 24VDC operating voltage
- Accommodates wheels from 14" to 24½"
- Includes 4 lifts

Adjustable-carriage wheel-engaging mobile lift system eliminates the need to connect lifts with cables or electrical wiring. Onboard smart charger prevents overcharge. Control box has touch screen display, status indicator, and displays lifting height and weight.

Lifting Capacity	Lifting Range	Platform Length (in.)	Platform Width (in.)	Lift Overall Dim. L x W x H	Mfr. Model	Item No.
76,000 lb.	0 to 69"	12	25 to 36	45" x 56½" x 13 ft.	WPLS-185 (4)	**11N170**





WESTWARD OTC

GRAY HEIN-WERNER AUTOMOTIVE

Load Leveling Sling

Designed to be used between an overhead lifting hoist and an unevenly weighted load. Adjustment is secured with locking bolts. Includes crossbar and (2) sling hooks.

Item	Lifting Capacity	Item No.
Westward		
Engine Load Leveling Sling	1500 lb.	**1MZK8**
OTC		
Engine Load Leveler	1500 lb.	**48XV32**
Load Leveler	6000 lb.	**48XV27**
Lifting Brackets	2 tons	**41RC53**
Gray		
Engine Load Leveling Sling	6000 lb.	**11N175**
Hein-Werner		
Engine Load Leveling Sling	3 tons	**12G735**

The Auto Dolly by Merrick Machine Co.

Auto Wheel Dollies

- Polyolefin Wheels

Use to move and position repair vehicle or equipment in any direction. V-shape effectively keeps wheel from rolling off dolly.





Lifting Cap.	Size	Mfr. Model	Item No.	Pkg. Qty.
Standard-Duty				
1500 lbs per Dolly (6000 lbs. set of four)	8"W x 16"L x 4"H	M998001	**3MHC4**	4
1500 lbs per Dolly (6000 lbs. set of four)	12"W x 16"L x 4"H	M998002	**3MHC5**	4
1500 lbs per Dolly (6000 lbs. set of four)	16"W x 16"L x 4"H	M998027	**3MHC6**	4
Heavy-Duty				
2500 lbs per Dolly (5000 lbs. pair)	16"W x 16"L x 4"H	M998105	**11N216**	2
2500 lbs per Dolly (10,000 lbs. set of four)	12"W x 16"L x 4½" H	M998035	**3MHC7**	4
Wall Mount				
Car Dolly Dock	4"W x 16"L x 8"H	M998071	**52WP43**	1



WESTWARD

Hydraulic Wheel Dolly

- Tough enough to handle up to 1,500 lb.
- Rolls easily on swivel casters
- Heavy-duty chain secures load in place

Allows for one-man mounting and demounting of truck and car tires.

Lift Range (lb.)	Lift Arms x Width (in.)	Lift Height (in.)	Tilt Range Deg.	Overall Dim. (in.) H	L	W	Item No.
1500	26	2½ to 8⅜	5	34⅞	44⅞"	39½	**5ML74**



HEIN-WERNER AUTOMOTIVE

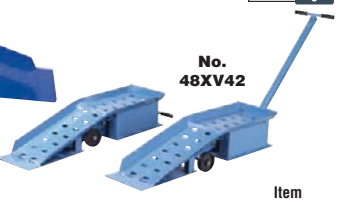
Hydraulic Dual-Wheel Dolly

- Holds up to 52"-dia. tires and wheels
- Load levelers help with alignment
- Carriage arm rollers with self-lubricating bearings

Handles both dual wheels and large single wheels. Includes built-in tool/parts tray and 2 swivel ball bearing casters for easy positioning. Wide frame and lifting carriage.

Lift Range (lb.)	Lift Arms x Width (in.)	Lift Height (in.)	Tilt Range Deg.	Overall Dim. (in.) H	L	W	Item No.
1500	26½	4 to 9	3 + or -	32	39	39½	**14N884**





WESTWARD

OTC GRAY

Truck Ramps

- Support 20 tons/pr.
- Sold in pairs

Include nonskid base, nonslip traction plates, and heavy-duty rubber wheels. Retractable handle.

W	L	H	Item No.
Westward			
13½"	45⅝"	9½"	**1AVP9**
18¼"	45⅝"	9½"	**1MZK3**
OTC			
13½"	51"	13¾"	**48XV42**
18¼"	51"	9¼"	**48XV43**
Gray			
15"	51"	9"	**11N143**



AME INTL.

Truck Wheel Dollies

Allow easy removal and installation of tire/rim assemblies and help reduce back injuries.

Description	Lift Range (lb.)	Lift Height (in.)	Lift Arms x Width (in.)	Tilt Range (Deg.)	Mfr. Model	Item No.
Single Truck Wheel Dolly						
For 19.5 to 24.5" tires	300	4	28¾	45	71300	**33W456**
For 22.5 to 24.5" tires	400	6	29	45	71320	**33W457**







OTC

Wheel Dollies

AIR-OPERATED HYDRAULIC DUAL-WHEEL DOLLY

Effortless lift system with 6" lateral adjustment for a variety of applications. 4 swivel casters, 2 locking, for enhanced mobility.

HYDRAULIC WHEEL DOLLIES

Efficient method of moving a disabled vehicle. No. 19XY27 has an easy-to-use foot pedal that activates hydraulic lift mechanism. Fits tread widths up to 12". 4 easy rolling swivel casters. The hydraulic jack on No. 48XV57 provides almost 5" of lift and tilts wheel assembly 4° to prevent damage to wheel seal. 6-ft. chain holds load in place. Swivel casters for maneuverability.

Lift Cap.	Lift Arms x Width (in.)	Lift Height (in.)	Tilt Range Deg.	Overall Dim. (in.) H	L	W	Mfr. Model	Item No.
Air-Operated Hydraulic Dual Wheel Dolly								
1100 lb.	42	0 to 42	-8 to 15	62 33/64	47 41/64	48 3/16	5105B	**38EG39**
Hydraulic Wheel Dolly								
1500 lb.	12	4	24.4	27.17	9	44	1580	**19XY27**
1500 lb.	—	5	4	36½	39	36	1770A	**48XV57**



Buyers Products Company

CHECKERS SAFETY GROUP

Outrigger Pads

- Pads protect the crane and the surface where the crane is used
- Rope-style or built-in handles are easy to grasp for placement

Handle Type	Pad Length	Pad Width	Pad Thickness	Brand	Item No.
Outrigger Pad					
Rope Style	24"	24"	1"	Buyers Products	**30PD57**
Molded In	18"	18"	2"	Buyers Products	**3MHD8**
Crane Pad					
Rope Style	15"	15"	¾"	Checkers	**45TX96**
Rope Style	18"	18"	1"	Checkers	**45TX97**
Rope Style	24"	24"	1"	Checkers	**45TX98**
Rope Style	24"	24"	2"	Checkers	**45TX99**

WESTWARD

Creeper Seats and Creepers


No. 1YER7


No. 1UBH4


No. 46V237


No. 1MZJ1


No. 1MZH8


No. 1MZH7

Load Capacity	Features	Headrest	No. of Casters	Frame Material	L	W	H	Item No.
Creeper								
250 lb.	—	Padded	6	Tubular Steel	36"	16 1/16"	3 1/16"	**1YER9**
250 lb.	Drop Rail	Multi Adjustable	6	Tubular Steel	40 3/16"	16¾"	5"	**1YEU2**
250 lb.	Drop Rail	—	6	Tubular Steel	40 3/16"	16¾"	4⅛"	**1YER5**
280 lb.	—	Padded	6	Plastic	40"	18½"	4½"	**1YER7**
300 lb.	Folding	—	8	Steel	40½"	16"	4½"	**1UBH4**
450 lb.	Z Folding, Caster Width ⅘"	Headrest and Body Cushion	6	Steel	40"	18"	7⅛"	**46V237**
—	Pneumatic Adjusting, Plywood Under Foam Padding, Vinyl Seat, Tool Tray	—	5	Steel	15"	15"	17 5/16 to 22"	**1MZJ1**
Creeper Seat								
200 lb.	—	—	4	Tubular Steel	15¾"	14½"	15"	**1MZH8**
300 lb.	High Rise, Steel Tray	—	4	Tubular Steel	—	—	23 to 24"	**1MZH7**

WHITE AUTOMOTIVE

Creeper Seats and Creepers


No. 4WM26


No. 2PB36


No. 4WM28


No. 46KJ39


No. 4WM21


No. 4WM20

Load Capacity	Features	Headrest	No. of Casters	Frame Material	L	W	H	Item No.
Creeper								
480 lb.	HD Extra Wide Adj. Headrest w/ V-drop	Padded	4	18 gauge steel frame	40"	20"	5½"	**40Z945**
480 lb.	HD Extra Wide Creeper w/ V-drop Frame	Padded	4	18 gauge steel frame	40"	20"	5½"	**40Z944**
570 lb.	—	Padded	6	18 gauge steel frame	40"	17"	3¾"	**4WM27**
570 lb.	—	Adjustable	6	18 gauge steel frame	40"	17"	3¾"	**4WM26**
570 lb.	Either End Adjustable Creeper	Padded	6	18 gauge steel frame	44"	17"	3⅝"	**2PB36**
600 lb.	6" No-Matic Wheels Roll Easily	Padded	4	18 gauge steel frame	40"	26"	8¾"	**2PB37**
600 lb.	Adjustable, 6" No-Matic Casters, V-Drop Frame	Padded	4	Steel	40"	24½"	7⅞"	**458J32**
660 lb.	Either End Adjustable, 3" No-Matic Casters	Padded	6	Steel	44"	17"	4½"	**458J31**
660 lb.	Fully Padded, 3" No-Matic Casters, V-Drop Frame	Padded	6	Steel	40"	17"	4½"	**458J30**
Creeper Seat								
380 lb.	—	—	4	18 gauge steel frame	19"	14¾"	15½"	**4WM28**
480 lb.	High Rise Creeper Seat with High Density Foam	—	4	Steel	15"	15"	17"	**46KJ38**
480 lb.	Adjustable Seat with High Density Foam	—	4	Steel	15"	15"	17" to 22"	**46KJ39**
Mechanic Seat								
480 lb.	—	—	4	18 gauge steel frame	16"	18½"	24"	**4WM21**
480 lb.	—	—	4	18 gauge steel frame	16"	18½"	17 to 22"	**4WM20**
Creeper Caster Replacement Wheel								
For Use With 4WM20, 4WM21								**4WM22**
For Use With 4WM26, 4WM27, 4WM28, 2PB36, 46KJ33, 46KJ34, 46KJ36								**4WM17**

OMEGALIFT

Creeper and Bone Creepers


No. 48NT99


No. 48NT98


No. 48NU02


No. 48NT97


No. 48NU01

Load Capacity	Features	Headrest	No. of Casters	Frame Material	L	W	H	Item No.
Creeper								
300 lb.	Low Profile Design	Padded	6	Plastic	36"	16"	4½"	**426C21**
300 lb.	Adjusts From Creeper to Seat	Padded	4	Polypropylene Copolymer	45½"	25½"	7⅛"	**48NU04**
350 lb.	Adjusts From Creeper to Seat	Padded	3	Polypropylene Copolymer	28"	32"	12"	**48NU03**
400 lb.	Low Profile Design, Fully Upholstered Pad	Padded	6	Metal	40¾"	26¼"	4⅞"	**48NT98**
400 lb.	Adjusts From Creeper to Seat	Padded	4	Polypropylene Copolymer	43"	24"	5¼"	**48NU02**
400 lb.	Adjusts From Creeper to Seat	—	4	Polypropylene Copolymer	45½"	25½"	7⅛"	**48NU05**
440 lb.	Low Profile Design	Padded	6	Plastic	48"	23½"	5"	**426C23**
450 lb.	Low Profile Design, Fully Upholstered Pad, Sitting Position	Padded	6	Metal	40"	26"	4¼"	**48NT97**
Convertible Creeper								
350 lb.	Patent Pending Rolling Seat, Standing Steel Tread Plate	Padded	4	Metal	19½"	14¼"	9½"	**48NU01**
Tool Box Creeper Seat								
—	Extra Thick Seat Cushion	—	—	—	—	14½"	18¼"	**48NT99**

PROTO®

Creeper, Trolley, and Shop Stool

Load Capacity	Features	No. of Casters	Frame Material	L	W	H	Item No.
Creeper Seat							
300 lb.	Heavy Duty, Backrest, Vinyl-Covered Foam Cushion	4	Tubular Steel	16"	16"	18"	**6RKW1**
Creeper							
300 lb.	Pneumatic Adjusting, Heavy Duty	—	Steel	—	14"	34"	**6RKT2**
400 lb.	Spider Style Creeper	6	Steel	40"	20"	3"	**6RKV1**


No. 6RKV1


No. 6RKW1


No. 6RKT2



No. 38UP51



No. 44ZY98

A/C RRR Machines

ROBINAIR

Refrigerant (RRR) Machine for Hybrid and Nonhybrid Vehicles— Efficiently recovers, recycles, evacuates, leak tests, and recharges R-134A refrigerant. Automatic features include leak testing, refilling, and oil draining.

No. 407K04 recovers 95% of refrigeration in vehicle A/C system and programs +/-1/2 oz. of programmable charge.

No. 38UP51services hybrid vehicles with high voltage electric compressors.

No. 38UP52 has ability to add printer and refrigerant identifier.

No.52ET95 has the capability of charging without continual monitoring.

1234YF Recovery, Recycle, Recharge (RRR) Machine—Integrated refrigerant identifier samples R1234YF refrigerant in an A/C system before recovery. Fully automatic operation, services both standard and hybrid vehicle A/C systems without continual monitoring. Include automatic internal tank refill, oil drain, and color display. No. 416L15 has a 2.5 reservoir capacity. No. 44ZY98 has an optional USB port, audio jack, and 2.4 reservoir capacity.

A/C Flushing—Eases flushing of condensers, evaporators, and lines. Features pulsing action to loosen corrosion, dirt, and debris, while unit injects air bubbles into liquid stream for greater cleaning action. Includes adapters to mate with ¼" flare and ⅜" quick-disconnect fitting kits.

Description	Mfr. Model	Item No.
R-134a Recovery/Recycling Units		
Economy R-134a Refrigerant Recovery, Recycling, and Recharging Machine	34288NI	**407K04**
Premier R-134a Refrigerant Recovery, Recycling, and Recharging Machine for Hybrid and Non-Hybrid Vehicles	34788NI-H	**38UP51**
Premier R-134a Refrigerant Recovery, Recycling, and Recharging Machine	34788NI	**38UP52**
Premium Refrigerant Recover, Recycle, Recharge Machine	34988NI	**52ET95**
R-1234yf Recovery/Recycling Units		
Premier R-1234yf Recover, Recycle and Recharge Machine	AC1234-4	**416L15**
Premier R-1234yf Recover, Recycle and Recharge Machine	AC1234-6	**44ZY98**
A/C Flushing		
A/C System Component Flusher	17580	**22A808**
Recycling Filter-Driers		
For Use With 17700-2K, 34134A, 34134-2K, 342000, 34234, 34300-2K, 34700, 34700-2K, 34800, 34800-2K, 34900 series.	34724	**22A846**



No. 4LTU6

SUPERCOOL

A/C Fluids and Chemicals

Type	For Use With	Viscosity Index	Size	Item No.
A/C Flush				
Solvent Base Solution	—	—	32 oz.	**12V181**
Solvent Base Solution	—	—	1 gal.	**12V182**
Non Flammable, Non Hazmat	R134a, R12, R22	—	32 oz.	**4LTU5**
Non Flammable, Non Hazmat	R134a, R12, R22	—	1 gal.	**4LTU6**
Power Jet Aerosol A/C Flush Kit				
—	—	—		**40L414**
A/C Compressor PAG Lubricant, w/UV Dye				
With UV Dye	R134a	46	32 oz.	**4LTR5**
With UV Dye	R134a	100	32 oz.	**4LTR6**
With UV Dye	R134a	150	32 oz.	**4LTR7**
A/C Compressor Ester Lubricant w/UV Dye				
With UV Dye	R134a, R12, R22	100	32 oz.	**4LTT6**
A/C Leak Detection Dye				
—	R134a, R12, R22	—	1 oz.	**4LTU7**
—	R134a, R12, R22	—	8 oz.	**4LTV1**



No. 4LTW8

SUPERCOOL ROBINAIR

Air Conditioning Maintenance Tools

Vacuum Pumps—Quickly dry A/C systems after repair. Include ½" ACME and ¼" SAE suction ports.
- 115VAC, 60 Hz
- For R134A refrigerant

Manifold Gauge Sets—Check high- and low-side pressures on automotive A/C units.

Maintenance Tools—No. 40L413 Removes contaminants, moisture, and acid from A/C systems using R134A and R12 refrigerants.

No. 4LTX3 detects all CFC, HFC, HCFC refrigerants, and blends. Includes digital leak size indicator, audio leak alarm, low-battery indicator.

Description	Brand	Mfr. Model	Item No.
Single-Stage Vacuum Pump			
⅛ HP, 1.70 cfm, 25 Micron, 115VAC, 60 Hz, For R134A regfrigerant	Supercool	18406	**4LTW8**
¼ HP, 2.75 cfm, 75 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	18413	**4LTW9**
2-Stage Vacuum Pump			
½ HP, 5.50 cfm, 15 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	13654	**4LTW7**
½ HP, 2.75 cfm, 15 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	13647	**12V184**
⅛ HP, A/C Vacuum Pump	Robinair	15400	**19XY37**
Vacuum Pump, Dual Stage 110-115V/220-250V, 4 CFM	Robinair	15401	**19XY26**
Manifold Gauge Sets			
R134a Brass Gauge with 6-ft. Hoses and Couplers	Supercool	66	**4LTW4**
R134a Aluminum Gauge with 6-ft. Hoses and Couplers	Supercool	2211B	**4LTW5**
Maintenance Tools			
AC Flush Gun	Supercool	27361	**40L413**
Refrigerant Leak Detector	Supercool	D440A-C	**4LTX3**
Chemicals			
Vacuum Pump Oil, Synthetic, 1 gal.	Supercool	V128	**12V186**

WESTWARD

Air-Actuated Pump

Internal check valve, eliminates pulsing and provides a consistent pressure. Used to operate and control hydraulic presses.

Cap. (psi)	Oil Cap. (cu. in.)	Air Inlet NPT (in.)	Fluid Port NPT (in.)	Item No.
10,000	91.50	¼	⅜	**5ML66**



OTC

Electric and Air/ Hydraulic Pumps

No. 3GZU3 includes remote 2-way, 2-position control valve. No. 19XY20 features a 2-stage release mechanism and internal relief valve.

Description	Mfr. Model	Item No.
Electric, ½ HP, 115VAC, 2. gal. Reservoir Capacity	4044	**3GZU3**
Air/Hydraulic	4020	**19XY20**



No. 3GZU3



No. 19XY20

Transmission Fluid Exchanger

ROBINAIR

- 12VDC

Quickly exchanges fluid through the transmission oil dipstick in less than 20 min. Works with all types of automatic transmission fluid for most foreign and domestic vehicles. Has digital keypad, and low fluid alarm with indicator light. Includes two 32 qt. reservoir tanks.

Description	Mfr. Model	Item No.
Transmission Fluid Exchanger	92500	**1DZK3**



Automotive Filters

Protect your air intake systems, fuel pumps and injectors, engines, and other systems against damaging contaminants. These professional-quality filters are built to provide consistent, efficient operation over their entire service life.

BALDWIN FILTERS

Note: See our full offering of automotive filters, filter accessories, gaskets, seals, and o-rings on Grainger.com®. Search for "Automotive Mechanical."



Mfr. Model	Fits	Replaces	Item No.
Oil Filter			
B161-S	Acura, Ford, Honda, Mazda Automotive; Kubota Engines	Ford D87Z-6731-A; Mazda 8173-23-802	**2KYA5**
B227	Chrysler, Ford, GMC, Honda, Isuzu, Mitsubishi Automotive; Kubota, Yanmar Engines	Kubota 15241-39092; Yanmar 1196-6035150	**2KYC3**
B228	tlas Copco Compressors; Audi, BMW, GM Automotive; Bobcat, Claas, Gehl Equipment; Deutz Engines	Deutz 1163420; GMC 6696776	**2KYH5**
B7322	John Deere Equipment	John Deere RE504836	**3XUH3**
BD7166	GMC Trucks; Isuzu Engines	GMC 97719921; Isuzu 2-90654-600-0, 8-97049-282-0	**2KZL3**
P7003	Caterpillar Industrial, Marine Engines	Caterpillar 1R0726, 4P2839, 7N7500	**2NTX3**
Air Filter			
RS3715	Exmark Lawn & Garden Tractors; Bobcat, John Deere Equipment	John Deere M113621	**2KYE5**
RS3544	Case, Caterpillar, Gehl, John Deere, New Holland, Vermeer, Volvo Equipment	Case 222421A1; Caterpillar 110-6326; Gehl L99453; John Deere AT171853; New Holland 86982524	**2KXZ9**
RS3704	Isuzu, Yanmar Engines; Bobcat, Caterpillar, John Deere, Komatsu, Kubota Equipment	John Deere M131802; Kubota TA040-93230; Melroe-Bobcat 6672467; Yanmar 119808-12520	**2KYH1**
RS4989	Caterpillar, John Deere, New Holland Equipment	Perkins SEV551F14	**4RFV4**
PA31004	Cummins QSF 3.8 (Final Tier 4), QSB4.5 (Final Tier 4), QSF2.8 Naturally Aspirated (Tier 4), QSF2.8 Turbo (Tier 3), QSF 2.8 (Final Tier 4) Engines	Fleetguard AF55020; JLG Industries Inc. 70024177; Doosan 46595499	**460K03**
Fuel Filter			
PF7890-30	Racor 1000FH Series Housings	Racor 2020 Series	**2KXW9**
BF940	Allis Chalmers, Kubota, Massey Ferguson Equipment; Yanmar Engines	Allis Chalmers 2098616; Kubota 15221-43081	**2KYA8**
BF1281	Primary Fuel for Racor 4120 Series Fuel/Water Separators	Racor R120P	**2VML8**
BF46050	Genie S-Boom, Scissors and Telehandlers	Genie 236260; Bomag 8820065; Caterpillar 4664177; Claas 19951210; Deutz 4130241, 4130650; JLG Industries 70025153	**52KA87**
PF7982	Case, Hitachi, J.C. Bamford, John Deere, Link-Belt Excavators; Mitsubishi Trucks	Hitachi 4642641; Isuzu 8-98008-840-0; S-F Filter SK3160	**6GHL4**
PF7984	John Deere Excavators	Hitachi 4679981; Isuzu 8-98074-288-0; S-F Filter SK3022	**6GHL6**
Hydraulic Filter			
BT839	Bobcat, Ford, Toro, Vermeer, Versatile Equipment; Cross, Gresen, Michigan Fluid Power Hydraulic Systems	Cross 1A9023; Gresen 8057000; Michigan Fluid Power 201026	**2KYA6**
BT287-10	Case, Case-International, Caterpillar, Champion, Ditch Witch, Dynamic Industries, Ford, Gehl, Hesston, John Deere, Manitou, Michigan Fluid Power, New Holland, Steiger Equipment	Case 87027972; Caterpillar 9T5664; Champion 13028; Ditch Witch 155-954; Dynamic 1H1234; John Deere AT58368; Michigan Fluid Power 200-0600; New Holland 86542664	**2KXX9**
BT8851-MPG	Agco, Caterpillar, Cedarapids, Ford, Gehl, John Deere, New Holland, Vermeer, V.M.E., Volvo Equipment	Agco 303506819; Caterpillar 1G8878; Cedarapids 451750014101; John Deere RE47313; New Holland 89821387; Vermeer 73113001; V.M.E. 110366077	**2KYH9**
BT8892-MPG	Ingersoll-Rand Compressors	Ingersoll-Rand 36860336; Donaldson P165672	**2NUN6**

GRAINGER APPROVED · Thermoid · DAYCO · Gates · EATON

Coolant, Fuel, and Heater Hoses

Designed for use on all gasoline engines, except fuel injections. Silicone heater/coolant hoses have high temperature ratings for longer life than standard hoses.

Note: Find more hoses on Grainger.com®. Search for "Rubber Hoses."

Inside Dia. (in.)	Working Pressure (psi)	L	Color	Brand	Item No.
Coolant Hose					
1	100	3 Ft.	Blue	GA	**4GJX5**
1¼	90	3 Ft.	Blue	GA	**4GJX6**
1½	80	3 Ft.	Blue	GA	**4GJX7**
1¾	70	3 Ft.	Blue	GA	**4GJX8**
2	60	3 Ft.	Blue	GA	**4GJX9**
2¼	60	3 Ft.	Blue	GA	**4GJY1**
2½	50	3 Ft.	Blue	GA	**4GJY2**
3	35	3 Ft.	Blue	GA	**4GJY4**
3½	25	3 Ft.	Blue	GA	**4GJY5**
Fuel Hose					
¼	50	25 Ft.	Black	Thermoid	**5RLZ8**
¼	50	50 Ft.	Black	Dayco	**4GJW1**
5/16	50	25 Ft.	Black	Thermoid	**5RLZ9**
5/16	50	50 Ft.	Black	Dayco	**4GJW2**
⅜	50	25 Ft.	Black	Thermoid	**5RMA0**
⅜	50	50 Ft.	Black	Dayco	**4GJW3**
½	35	25 Ft.	Black	Gates	**5NDE5**
Fuel Injection Hose					
5/16	225	25 ft.	Black	Gates	**45VF24**

Inside Dia. (in.)	Working Pressure (psi)	L	Color	Brand	Item No.
Heater Hose					
¼	62	25 ft.	Blue	Flextech	**32WF79**
⅜	62	25 ft.	Blue	Flextech	**32WF81**
½	62	25 ft.	Blue	Flextech	**32WF78**
½	80	25 Ft.	Blue	GA	**4GJY7**
⅝	62	25 ft.	Blue	Flextech	**32WF82**
⅝	62	100 ft.	Blue	Flextech	**32WF84**
⅝	80	25 Ft.	Blue	GA	**4GJY8**
¾	50	25 ft.	Blue	Flextech	**32WF80**
¾	50	100 ft.	Blue	Flextech	**32WF83**
¾	65	25 Ft.	Blue	GA	**4GJY9**
1	43	25 ft.	Blue	Flextech	**32WF77**
1	44	50 ft.	Red	Thermoid	**45AT68**
1	60	25 Ft.	Blue	GA	**4GJZ1**
Push-On Hose					
¾	300	50 ft.	Red	Eaton Weatherhead	**45AT89**



Fuel Hose



Heater Hose

Windshield Wiper Blades

Note: Find more wiper blades on Grainger.com®. Search for "Windshield Wiper Blades."

Trico Force™—Features an aerodynamic spoiler that cuts through excessive wind speeds of up to 135 mph caused by cross and truck winds, and general traffic turbulence.

HD® 67 Series—These wide saddle blades are designed for use on heavy-duty trucks, RVs, and buses

Exact Fit®—Provide the exact same fit as original factory blades for vehicles with conventional metal wiper blades.

Tech®—Feature Memory Curve Steel® beam that provides uniform pressure for a clean wipe.

30 Series—Have a precision-cut rubber edge for outstanding wiping action and conforms to highly curved windshields of later-model vehicles.

Ice®—Helps protect wiper components from damaging ice and snow. Heavy-gauge PTFE-infused wiper element resists tearing in subzero temperatures.

Chill®—Feature a protective rubber boot to help prevent snow and ice from clogging the wiper, producing a clean wipe every time.

TRICO · 100 YEARS



HD® 67 Series



Exact Fit®



Tech®

Size (in.)	Force® Mfr. Model	Force® Item No.	HD™ Mfr. Model	HD™ Item No.	Exact Fit® Mfr. Model	Exact Fit® Item No.	Tech® Mfr. Model	Tech® Item No.	30 Series Mfr. Model	30 Series Item No.	Ice® Mfr. Model	Ice® Item No.	Chill® Mfr. Model	Chill® Item No.
11	—	—	61-110	**48VD93**	11-A	**52YP08**	—	—	30-110	**48VD54**	—	—	37-111	**48VD79**
13	—	—	61-130	**48VD95**	13-1	**48VD28**	19-130	**48VD41**	30-130	**48VD55**	35-130	**48VD67**	37-131	**48VD80**
15	25-150	**426C63**	61-150	**48VD97**	15-1	**48VD30**	19-150	**48VD42**	30-150	**48VD56**	35-150	**48VD68**	37-150	**48VD81**
16	25-160	**426C64**	61-160	**48VD98**	16-1	**48VD31**	19-160	**48VD43**	30-160	**48VD57**	35-160	**48VD69**	37-160	**48VD82**
17	25-170	**426C65**	61-170	**48VD99**	17-1	**48VD32**	19-170	**48VD44**	30-170	**48VD58**	35-170	**48VD70**	37-170	**48VD83**
18	25-180	**426C66**	61-180	**48VE01**	18-1	**48VD33**	19-180	**48VD45**	30-180	**48VD59**	35-180	**48VD71**	37-180	**48VD84**
19	25-190	**426C67**	61-190	**48VE02**	19-1	**48VD34**	19-190	**48VD46**	30-190	**48VD60**	35-190	**48VD72**	37-190	**48VD85**
20	25-200	**426C68**	61-200	**48VE03**	20-1	**48VD35**	19-200	**48VD47**	30-200	**48VD61**	35-200	**48VD73**	37-205	**48VD86**
21	25-210	**426C69**	61-210	**48VE04**	21-1	**48VD36**	19-210	**48VD48**	30-210	**48VD62**	35-210	**48VD74**	37-210	**48VD87**
22	25-220	**426C70**	61-220	**48VE05**	22-1	**48VD37**	19-220	**48VD49**	30-221	**48VD63**	35-220	**48VD75**	37-225	**48VD88**
24	25-240	**426C71**	67-241	**48VE18**	24-1	**48VD38**	19-240	**48VD50**	30-240	**48VD64**	35-240	**48VD76**	37-245	**48VD89**
26	25-260	**426C73**	67-261	**48VE19**	26-1	**48VD39**	19-260	**48VD51**	30-260	**48VD65**	35-260	**48VD77**	37-260	**48VD90**
28	25-280	**426C74**	67-281	**48VE20**	28-9	**48VD40**	19-280	**48VD52**	30-280	**48VD66**	35-280	**48VD78**	37-280	**48VD91**


No. 49LX33


No. 16A725


No. 446V19


No. 1GLR4


No. 1GLR6


No. 21EK35


No. 16A722

Snow Removal Tools

Handle Type	Handle Grip	Handle Length	Blade Width	Blade Height	Brand	Item No.
Ice Scraper						
Fixed	Foam	5"	4"	—	Subzero	**49LX33**
Fixed	Plastic	6"	4"	—	Subzero	**49LX32**
Fixed	Foam	6"	4"	—	Subzero	**49LX35**
Fixed	Foam	7"	4"	—	Subzero	**49LX34**
Snow Broom						
Telescopic	Foam	60"	4"	5"	Subzero	**16A727**
Telescopic Steel	Foam	42"	4"	4½"	Subzero	**16A725**
Snow Broom and Scraper						
Telescopic	Foam	45"	4¼"	5½"	Subzero	**446V17**
Telescopic	Foam	48"	4"	3½"	Mallory	**446V14**
Telescopic	Foam	48"	4"	3½"	Subzero	**446V13**
Telescopic	Foam	60"	4½"	3¾"	Subzero	**446V19**
Snow Brush						
Telescopic	Foam	50"	4½"	1½"	Subzero	**21EK31**
Telescopic	Foam	54"	4"	¼"	Subzero	**21EK34**
Telescopic	Foam	54"	4½"	5"	Subzero	**16A723**
Telescopic	Foam	54"	5"	—	Subzero	**49LX38**
Telescopic Steel		51"	4"	5"	Subzero	**16A724**
Snow Brush and Scraper						
Foam Comfort Grip	Foam	26"	5"	4"	Mallory	**1GLR4**
Foam Comfort Grip	Foam	35½"	5"	4½"	Mallory	**1GLR2**
Plastic Contour Grip	Plastic	16"	3¾"	3½"	Mallory	**1GLR6**
Plastic Contour Grip	Plastic	19¼"	2"	2"	Ability One	**48TC59**
Telescopic	Foam	34 to 52"	5"	4"	Mallory	**1GLP9**
Snow Shovel						
Straight	Offset T-Grip	22"	9"	4½"	Subzero	**21EK35**
Straight	D-Grip	25"	10¾"	4½"	Westward	**38ZF78**
Straight	D-Grip	30" to 37"	8½"	13¾"	Subzero	**16A722**




No. 4GYX6

No. 4GYU6


No. 4GYY1

Vehicle Service Protection Products

Vehicle protection accessories are made with Slip-N-Grip® dual-layer plastic for extra elasticity and strength. Designed to stay in place, material will not easily slide or tear leaving carpet or upholstery exposed.

Description	Size	Color	Item No.	Pkg. Qty.
Seat Covers, Premium Plastic, Roll	32" x 56"	Clear	**4GYU6**	250
Seat Covers, Premium Plastic, IFB-Boxed	32" x 56"	Clear	**4GYU7**	250
Seat Covers, Value Plastic, Roll	32" x 52"	Clear	**4GYU8**	500
Floor Mats, Plastic, Roll	16½" x 21"	White	**4GYU9**	500
Paper Floor Mat, 17" x 22"	17" x 22"	White	**54ZT50**	500
Fender Covers, PVC	2 ft. x 3 ft.	Black	**4GYX7**	10
Car Covers, Plastic, Roll	13½" x 25 ft.	Clear	**4GYX3**	30
Tire Maskers, Plastic, Roll	45" x 40"	Clear	**4GYX6**	50
Heavy Duty Battery Bag	22" x 32"	Clear	**4GYW1**	10
Rear Wiper Blade Protector	3" x 27"	Clear	**4GYV9**	500
Blank Plastic Key Tag	4½" x ¾"	White	**4GYY1**	1000


No. 2AGH4


No. 1EZB4


No. 3VTA1

Front Floor Mats and Covers

Provide additional protection against spills, stains, fading, and dirt.

Description	Color	Wheel Dia. (in.)	Brand	Item No.
Floor Mats				
All Weather Rubber, Pkg. of 2	Black	—	Weathertech	**2AGH4**
W54 All-Weather Front Mats	Black	—	Weathertech	**2AGH7**
SBR Rubber, 28"L x 18"W, Pkg. of 2	Charcoal	—	Andersen	**3VTA1**
Covers				
Universal Bucket, Includes (2) Seat Covers, (2) Head Rest Covers	Black	—	Bell	**1EZB4**
Genuine Leather Steering Wheel Cover	Black	14½ to 15½	Bell	**1EZB7**
Golf Grip Steering Wheel Cover	Black	15	Bell	**1EZB9**
Bandera Steering Wheel Cover	Black	15	Bell	**1EZC4**


No. 32UM46


No. 2FAH1

Automotive Mirrors

- For additional products, see Grainger.com®

Description	Brand	Mfr. Model	Item No.
Heated Round Mirror			
8" with Offset Ball Stud, Stainless Steel, Includes 60" Cable and Adhesive Heater Board	Grote	12183	**2CVK3**
Hood Mount Mirrors			
Non-Adjustable Slant Arm, 8" Eyeball K10	Velvac	716917	**21DJ85**
Panoramic View Mirror			
2-9/16H" x 34-3/4L" with 5-Panels	Westward	32UM46	**32UM46**
Rectangle Mirrors			
4" x 5½" Stick-On, Aluminum	Velvac	723075	**2FAH1**
6½"W x 10"H Side-Mount Wide Angle, Steel with White Finish	Velvac	704032	**2FAJ8**
Black, Manual Flat Glass, Right Side	Velvac	714580	**2FAJ4**
Black, Manual Flat Glass, Left Side	Velvac	714579	**2FAJ2**
15" x 9" Manual Mirror Head for GMC, Right Side, Class A	Velvac	715642	**5MCZ4**
Round Blind Spot Mirrors			
3¾" Stick-On	Velvac	723065	**2DPD3**

Description	Brand	Mfr. Model	Item No.
Round Mirrors			
3" Stick-On Convex, Aluminum	Grote	12004	**2CVK1**
5" Center Mount Convex, Stainless Steel	Velvac	708520	**2DPC9**
6" Center Mount Convex, Stainless Steel	Velvac	708515	**2FAF9**
6" Convex with Mounting Arm Assembly, Stainless Steel	Grote	28043	**2CVL1**
7½" Center Mount Convex, Stainless Steel	Velvac	708508	**2FAF5**
7½" Offset Convex, Stainless Steel	Velvac	708509	**2FAF7**
8½" Center Mount Convex, Stainless Steel	Velvac	708501	**2FAF1**
8" with Offset Ball Stud, Stainless Steel	Grote	12173	**2CVK2**
8½" Offset Convex, Stainless Steel	Velvac	708502	**2FAF3**
West Coast Mirrors			
6"W x 16"H Economy, Aluminum	Grote	16244	**2CVK8**
6½"W x 16"H Economy Black Ribbed, Polypropylene	Grote	16092	**2CVK6**
6½"W x 16"H Ribbed Back, Black Finish	Velvac	705104	**2FAE6**
7" x 16" 2020 West Coast	Velvac	718388-5	**5MCZ8**





Buyers · ECCO · FEDERAL SIGNAL · REAR VIEW SAFETY

Camera Systems

Includes	Camera Res.	Monitor Size	Viewing Angle	Item No.
Buyers Products				
Wireless Remote Controller	420k Pixels	7"	120°	**30PD21**
Ecco				
EC5605-WM Monitor and EC2014-WC Camera	800 x 480 Pixels	—	120 deg.	**49KD66**
M7000B Monitor, C2013B Camera and ECTC20-4 20m Cable	800 x 480 Pixels	—	120 deg.	**49KD99**
Federal Signal				
(1) 5.6" Monitor, (1) Camera, (1) 65-ft. Cable, 16 Infrared LED for Night Vision, and Integrated Microphone	224.6K Pixels	5.6"	45°/45°, 65°/65°	**12Y126**
Rear View Safety/RVS Systems				
(1) Camera, (1) 7" TFT LCD Color Monitor with Universal Mount, (1) 3-channel Multiplexer Control Unit, 66-ft. Cable for Camera, (1) Remote Control, Power Connection Wire, (1) Double RCA and Power Converter, (1) Screw Kit and Instructions	250k Pixeles	7"	130°	**6HCJ6**

EATON BUSSMANN SERIES

Automotive Fuse Kits

Provide common replacement fuses in a compact, reclosable, see-through pack. Suitable for automobiles, light- and heavy-duty trucks, and buses.

For individual fuses, see page 965.



Fuse Kit
No. 6AYD3



Fuse Service Kit
No. 6AYL6

Total # of Fuses Incl.	Fuses Included	Item No.
Fuse Kit		
5	(1) ATC 10, 15, 20, 25, 30	**6AYD3**
5	(1) AGC 10, 15, 20, 25, 30	**49ZU11**
5	(1) ATC-ID 10, 15, 20, 25, 30	**49ZU34**
6	(1) ATC 10, 15, 30, 40; (2) ATC 20, 25	**6AYE6**
6	(2) SFE 14, 20, 30	**49ZU12**
6	(1) SFE 4, 6; (2) SFE 7½, 9	**49ZV44**
8	(1) ATM 2, 5, 7½, 10, 15, 20, 25, 30	**6AYE9**
8	(2) ATM 10, 15, 20; (1) ATM 25, 30	**6AYG4**
16	(1) FLB 30, 40, 60, 70, 80, 100; (1) FLF 20, 30, 40, 50, 60; (1) FLM 30, 60, 80, 100	**6CJG1**
23	(1) ATM 10, 15, 20, 25, 30; (1) ATM-LP 10, 15, 20, 25, 30; (1) ATC 3, 5, 7½, 10, 15, 20, 25, 30, 40; (1) MAX 30, 40; (1) FMX 30, 40	**52CN19**
36	(6) ATM-ID 5, 10, 15, 20, 25, 30	**6AYL9**
42	(7) ATC 5, 10, 15, 20, 25, 30	**6AYL6**
42	(7) ATM 5, 10, 15, 20, 25, 30	**6AYL7**
42	(7) ATC-ID 5, 10, 15, 20, 25, 30	**6AYL8**
270	(5) ATC 3, 4, 5, 7½; (10) ATC 10, 15, 20, 25, 35, 40; (15) ATC 30; (5) ATM 2, 3, 4, 5, 7½, 25, 30; (15) ATM 10, 15, 20; (5) ATM-LP 2, 3, 4, 5, 7½, 25, 30; (10) ATM-LP 10, 15, 20; (1) MAX 20, 30, 100; (3) MAX 40, 50, 60; (2) MAX 70, 80; (2) FMX 20; (2) FMX 30, 40, 50, 60	**52CN18**



GARMIN

GPS Navigators

Features	Display Width (in.)	Display Height (in.)	Mfr. Model	Item No.
Handheld				
Lifetime USA and Canada Maps, Spoken Turn-By-Turn Directions, TripAdvisor®, Foursquare® Information, Bluetooth® Calling and Voice Command	1.4	2.5	GPSMAP64S	**464V19**
Suction Cup				
Bright, High-Resolution Display with Powered Magnetic Mount, All-In-One Truck Navigator with Built-In Dash Cam, Automatically Records the Drive and Saves Video of Detected Incidents, Forward Collision and Lane Departure Warnings, Wirelessly Pairs with Subscription-Free Garmin eLog Compliant ELD, Pair with New BC 35 (Sold Separately) Wireless Backup Camera	6.0	3.5	DEZL785LMT	**489N71**
High-Resolution, Display with Powered Magnetic Mount, Wirelessly Pairs with Subscription-Free Garmin eLog Compliant ELD, Pair with New BC 35 (Sold Separately) Wireless Backup Camera, Weather	6.0	3.5	DEZL780LMT	**489N70**
Lifetime USA and Canada Maps, Spoken Turn-By-Turn Directions, TripAdvisor®, Foursquare® Information, Bluetooth® Calling and Voice Command	6.0	3.5	DRIVESMART65	**55PC80**
Lifetime USA and Canada Maps with Traffic	5.3	2.8	167907	**464V13**
Service, Spoken Turn-By-Turn Directions, TripAdvisor®, Foursquare® Information	4.4	2.5	DRIVE52LM	**55PC79**
Lifetime USA and Canada Maps with Traffic Service and Weather Forecasts, Voice Activated Navigation, Bluetooth®, WiFi, Customized Truck Routing for Size and Weight of Trucks	4.4	2.5	DEZL580LMT	**458R77**
Lifetime USA Maps, Spoken Turn-By-Turn	4.4	2.5	16780B	**464V11**
Directions, TripAdvisor®, Foursquare® Information	5.3	2.8	16790B	**464V14**
Wrist				
Built to Military Standards, Night Vision Goggle Compatible, Works with GPS, Glonass, Galileo Satellite Systems to Provide Accurate Positioning, Extended Battery Life	1.4	0.9	FORETREX601	**55MW85**



BELL · Hamsar DIVERSCO A Grakon Company · MobileSpec · MONOPRICE · NOCO · ROADPRO · TRUCKSPEC

12VDC Power Accessories

Item	Includes	Amps	Item No.
Bell			
5 Outlet 12V Power Station	Hook-and-Loop Mounting Tape, Screws	—	**6TUJ4**
Auxiliary Power Outlet	Protective Cap, Universal Mounting Bracket, 18" Lead Wire with Female Spade Terminal, 6" Ground Wire with Female Spade Terminal, (2) Splice Connectors, and (1) Mounting Screw	5	**1EYV4**
Direct Plug to USB Power Converter	Fused Plug Protection	1	**3CZR9**
Power Outlet Twin Socket Splitter	5-Amp Fused Plug	5	**1EYV1**
Hamsar			
3-Outlet Multisocket	Screw Mount, 36" lead	15	**3VTE6**
Mobilespec			
Automotive Headsets	USB Charge Cable	—	**450X82**
Monoprice			
Apple Lightning Charger	—	—	**289X95**
NOCO			
Lighter Plug Adapter with Extension Cord	—	15	**417Y79**
Power Adapter	—	15	**417Y78**
Power Outlet Twin Socket Splitter	—	15	**417Y80**
Roadpro			
Auxiliary Power Outlet	Spring Loaded Lid	—	**33NU57**
Heated Blanket	8 ft. Power Cord	4.6	**39CJ23**
Lighter Plug Adapter with Extension Cord	Extension Cord and Lighter Plug	15	**33NU50**
Lighter Socket Adapter with Battery Clips	2-ft. 14ga Wire	10	**33NU60**
Quart Slow Cooker	12V Plug with 6 ft. Power Cord	8	**33NU83**
Replacement Cigarette Lighter	Plug	—	**33NU59**
TruckSpec			
Fused Replacement Plug	—	—	**39CJ21**



No. 33UG04



No. 20V771

Cobra® Uniden®

CB Radios

- Full 40 channel operation
- Frequency: 26.965 to 27.405 MHz
- Backlit LCD display

Description	Item No.
Cobra	
25 LTD Compact Professional CB Radio	**33UG02**
29 LTD Classic Professional CB Radio	**33UG04**
Uniden	
Compact Mobile CB Radio	**20V771**



No. 33NU72



No. 33NU79



No. 33NU85

ROADPRO

Portable Vehicle Fans

Type	Includes	Amps	Item No.
Car Fan			
Heater	12V Port Plug, 6 ft. Power Cord, Mounting Hardware	15	**33NU84**
Heavy Duty	12V 7 ft. Power Cord, Mounting Hardware	1.3	**33NU72**
Oscillating	12V 10 ft. Power Cord, Mounting Hardware	0.6	**33NU71**
Tornado	12V 11 ft. Power Cord	—	**33NU79**
Vehicle Direct Wired Heater/Fan			
Heat or Fan	Swivel Stand and Hook-and-Loop Material for Mounting, 7-ft. 12-Gauge 14 ft. Wire	25	**33NU85**



No. 6TUJ2



No. 19MR24



No. 12Z329

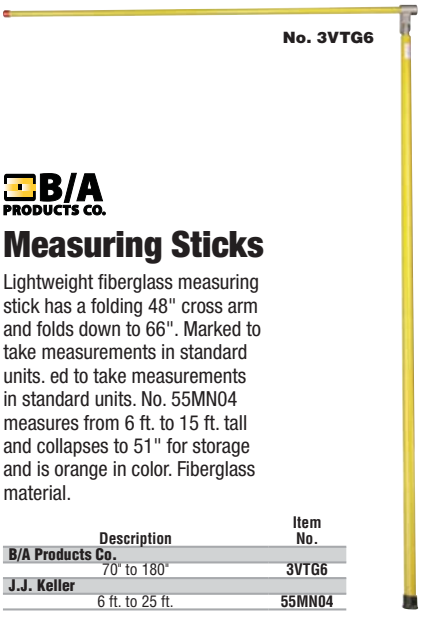
BELL

OccuNomix

IMPACTO

Interior Accessories

Description	Color	Item No.
Bell		
LCD Clock	Black & Chrome	**6TUJ2**
Jumbo LCD Clock	Black/Silver	**1EYT7**
Mobile Mount Holder with Suction Cups and Air Vent Mounts	Black & Chrome	**6TUH4**
Drink Holder, Window Mount with Self-Adjusting Fingers, Fits Up to 44 oz. Drinks	Black	**1EYX3**
Drink Holder with Nonslip Base with Self-Adjusting Fingers, Fits Up to 44 oz. Drinks	Black	**1EYX5**
Collapsible Trash Can	Black	**1EZC5**
EZ Clean Litter Bag with 6 Disposable Liners	Black	**1EZC6**
Insurance/Registration Wallet	Black	**1EZC7**
OccuNomix		
Seat Belt Cover	Yellow	**19MR24**
Impacto		
Seat Cushion	Blue	**12Z329**



No. 3VTG6

No. 55MN04

B/A PRODUCTS CO.

Measuring Sticks

Lightweight fiberglass measuring stick has a folding 48" cross arm and folds down to 66". Marked to take measurements in standard units. ed to take measurements in standard units. No. 55MN04 measures from 6 ft. to 15 ft. tall and collapses to 51" for storage and is orange in color. Fiberglass material.

Description	Item No.
B/A Products Co.	
70° to 180°	**3VTG6**
J.J. Keller	
6 ft. to 25 ft.	**55MN04**



Buyers PRODUCTS COMPANY

Blade Guide Kits

Constructed of low-temperature nylon in fluorescent orange for good visibility in severe weather. Sold in pairs. Includes vertical mounting fasteners.

Description	Item No.
28"H with Bolt-On Base	**3VTH4**
36"H with Bolt-On Base	**3VTH5**
36"H Stud Mount ⅜"-16 Base	**3VTJ1**
48"H with Bolt-On Base	**3VTH7**

Buyers PRODUCTS COMPANY

Truck Hood Latches



No. 3VUN4

No. 3VUN5

No. 3VUN3

No. 3VUN6

Type	L (in.)	Item No.
Catch		
U-Shaped Ball Cup	7 ⅞	**3VUN4**
Rubber Hood	4⅞	**3VUN5**
U-Shaped Ball Cup	4⅞	**3VUN6**
Truck Hood Catch		
U-Shaped Ball Cup	6	**3VUN3**



No. 5UYK3

No. 5UYK8



No. 5UYR2

Safety Whips

High-visibility warning whips alert other vehicles to your presence, to help prevent accidents. Whips are constructed of premium fiberglass resin and include mounting base and Day Bright™ fluorescent orange nylon mesh flag, with or without 3M® Scotchlite® Reflective X.

CHECKERS SAFETY GROUP

Note: Replacement flags are available on Grainger.com®.

Description	Overall Height	Flag Height	Flag Width	Mfr. Model	Item No.
White Whip, Orange Flag, Threaded Hex Base					
Light Duty					
With (X)	7 ft.	—	—	FSRR70-HB	**5YMH7**
General Duty					
Without (X)	3 ft.	11"	12"	FS3-0	**5UYJ9**
With (X)	3 ft.	11"	12"	FS3X-0	**5UYK0**
Without (X)	5 ft.	11"	12"	FS5-0	**5UYK3**
With (X)	5 ft.	11"	12"	FS5X-0	**5UYK4**
Without (X)	8 ft.	11"	12"	FS8-0	**5UYK7**
With (X)	8 ft.	11"	12"	FS8X-0	**5UYK8**
With (X)	10 ft.	11"	12"	FS10X-0	**5UYL2**
With (X)	12 ft.	11"	12"	FS12X-0	**5UYL6**

Description	Overall Height	Flag Height	Flag Width	Mfr. Model	Item No.
Whip with Quick-Disconnect Base					
General Duty					
With Reflective (X)	5 ft.	11"	12"	FS5X-QD-0	**16D793**
With Reflective (X)	6 ft.	11"	12"	FS6X-QD-0	**16D797**
Without (X)	6 ft.	11"	12"	FS6-QD-0	**16D795**
With Reflective (X)	8 ft.	11"	12"	FS8X-QD-0	**16D808**
With Reflective (X)	10 ft.	11"	12"	FS10X-QD-0	**16D776**
Whip Bases					
Heavy-Duty Spring Mount For Whips Up to 8 ft.	—	—	—	FS7006	**5UYR2**
Female Quick-Disconnect Base Mount with Debris Cap	—	—	—	FSQDB-DUD	**16D835**



No. 2FGV3



No. 36RM29



No. 49XE21



No. 49XE27



No. 36RM30


No. 9VPY0


No. 52KD32

Tailgate Spreaders

Connect to trucks, utility vehicles, tractors, and other vehicles. Integrated steel augers. Sealed, heavy-duty 12V electric drive motors and transmissions. Rustproof spinners.

Pelletized Ice Melt, Seed, and Fertilizers—Has 20-ft. insulated harness with On/Off switch and a manual flow gate with 10-ft. cable to adjust the flow rate.

Rock Salt and Nonpelletized Ice Melt—No. 2FGV4 has 20-ft. insulated harness with On/Off switch, manual flow gate with 10-ft. cable for adjusting flow rate, and a feed auger. No. 49XE20 has digital, variable-speed controller that allows easy control of spread width. Includes polyethylene lid. Nos. 36RM29 and 36RM31 are prewired for an optional vibrator kit (sold separately). No. 36RM31 includes variable-speed controller for adjusting flow rate.

Sand/Salt or Bulk Salt—Dual variable-speed controls adjust flow rate and spread width independently. Top screen stops rocks or large chunks from getting jammed in the auger. Built-in vibrator can be turned off and on. Mounting kit with straps included, except No. 49XE27 (mount is available separately). Material stays dry and safe while driving: Nos. 49XE21, 9X603, 9VPY0, 36RM30, 36RM32, and 36RM33 have a fitted hard lid; No. 4CAD4 has a fitted tarp. Nos. 36RM34 has a dual-action polymer lid.

Description	Cap.	Spread Width	Mount Type	H	W	D	Brand	Mfr. Model	Item No.
Tailgate Spreaders and Sprayer									
Pelletized Ice Melt, Seed, and Fertilizers	3.0 cu. ft.	Up to 25 ft.	2" Receiver or SnowEX	30½"	31"	22½"	SnowEx	SP-125-1	**2FGV3**
Rock Salt and Nonpelletized Ice Melt	3.0 cu. ft.	Up to 25 ft.	2" Receiver	25"	23"	33"	SnowEx	SR-210	**5RRF6**
Rock Salt and Nonpelletized Ice Melt	3.0 cu. ft.	Up to 25 ft.	2" Receiver or SnowEX	30½"	31"	22½"	SnowEx	SP-225-1	**2FGV4**
Rock Salt and Nonpelletized Ice Melt	5.8 cu. ft.	Up to 30 ft.	2" Receiver	35"	38"	20.5"	SnowEx	SP-575X-1	**49XE20**
Rock Salt	4.4 cu. ft.	3 to 30 ft.	2" Receiver Hitch	40.5"	22.5"	21"	SaltDogg	TGSUVPROA	**36RM31**
Rock Salt	8 cu. ft.	3 to 30 ft.	Step Bumper	45.7"	29.7"	26"	SaltDogg	TGS01B	**36RM29**
Rock Salt	10.79 cu. ft.	3 to 30 ft.	Step Bumper	40.1"	54.3"	52¼"	SaltDogg	TGS05B	**36RM33**
Sand/Salt or Bulk Salt	5.3 cu. ft.	Up to 30 ft.	3-Point Hitch or 2" Receiver	34"	38"	20.5"	SnowEx	SP-1575-1	**49XE21**
Sand/Salt or Bulk Salt	6.0 cu. ft.	30 ft.	3-Point Hitch, 2" Receiver or Bed	28"	49.5"	24"	SnowEx	SD-600-1	**49XE27**
50-50 Salt and Sand Mix, Bulk Salt	20.25 cu. ft.	5 to 30 ft.	Bed	28"	48"	53"	SaltDogg	SHPE0750	**9X603**
Sand/Salt or Bulk Salt	27.0 cu. ft.	Up to 40 ft.	Bed	36"	48.5"	77"	SnowEx	SP-6000	**4CAD4**
Sand/Salt or Bulk Salt	54 cu. ft.	5 to 30 ft.	Bed	40"	47.8"	96"	SaltDogg	SHPE2000	**9VPY0**
Sand/Salt	11 cu. ft./ 825 lb.	3 to 30 ft.	2" Receiver Hitch	46"	53"	51"	SaltDogg	TGS07	**36RM34**
Ice Melt, Bagged Salt	4 cu. ft.	3 to 30 ft.	2" Receiver Hitch	32"	30"	30"	SaltDogg	TGS02	**36RM30**
Sand/Bulk Salt	8 cu. ft.	3 to 30 ft.	2" Receiver Hitch	45"	38"	38"	SaltDogg	TGS03	**36RM32**
Bulk Materials Sand/Salt Mixtures	27 cu. ft.	Up to 30 ft.	Bed	34"	48"	82 7/64"	Buyers Products	SHPE1000	**52KD32**
Tailgate Spreader/Sprayer Accessories									
Vinyl Cover For Use with Nos. 2FGV3, 5RRF6, and 2FGV4							SnowEx	WSC-020	**5RRF8**
Material Flow Gate with Agitator and 10-ft Cable, For Use with No. 49XE20							SnowEx	GAK-020-1	**49XE22**
Variable-Speed Controller with Harness and Mounting Hardware, For Use with Nos. 2FGV3 and 2FGV4							SnowEx	VAR-020	**2HPE5**
Variable-Speed Controller, For Use with Salt Dogg TGS Series							SaltDogg	3011864	**36RM28**
Full Swing-Away Receiver Hitch, For Use with Nos. 2FGV3, 2FGV4, and 49XE20							SnowEx	PPT-175-1	**49XE24**
Spreader Drop Mount, For Use with Nos. 2FGV3, 2FGV4, and 49XE20							SnowEx	DRM-175-1	**49XE23**
Pre-Wet Spray System, 30 gal. Spray Tank, Sprayer with Hose For Use with No. 4CAD4							SnowEx	PWS-100	**49XE33**

John Bean

Tire Balancer



Built to balance truck, bus, RV, and automobile wheels and tire assemblies. Heavy-duty design handles wheel ranges from 12" to 24.5". Additional features include pneumatic wheel lift that helps reduce strains caused by lifting; semi-automatic data entry that helps eliminate errors; and self-calibration detail that helps ensure accuracy and reduce cost.

Item	Power Requirements	Max. Tire Dia.	Mfr. Model	Item No.
Tire Balancer	230V, 1-Phase, 60 Hz	30"	EEWB543AW	**4VCT8**

Perfect Equipment

Wheel Weights


FN Series


P Series


PZ Series

FN Series—Clip-on weights can be used on most pre-1990 Japanese vehicles equipped with alloy wheels.

P Series—Use on standard passenger cars with 13" to 17" steel wheels.

PZ Series—Use zinc weights on standard passenger car 13" to 17" steel wheels.

Weight	Size	Item No.	Pkg. Qty.
FN Series - Zinc			
10g	0.885 x 0.698"	**33Y274**	25
15g	1.375 x 0.698"	**33Y275**	25
20g	1.57 x 0.776"	**33Y276**	25
P Series Uncoated - Lead			
0.50 oz.	1.3 x 0.567"	**33X838**	50
0.75 oz.	1.53 x .0.65"	**33X839**	50
1 oz.	2.2 x 0.65"	**33X840**	50
1.25 oz.	2.38 x 0.65"	**33X841**	50
1.5 oz.	2.88 x 0.65"	**33X842**	50
1.75 oz.	3.2 x 0.65"	**33X843**	50
2 oz.	3.69 x 0.65"	**33X844**	50
2.25 oz.	4.02 x 0.65"	**33X845**	50

Weight	Size	Item No.	Pkg. Qty.
PZ Series Uncoated - Zinc			
0.25 oz.	1.254 x 0.475"	**33Y193**	25
0.50 oz.	2.407 x 0.475"	**33Y194**	25
0.75 oz.	2.143 x 0.575"	**33Y195**	25
1 oz.	2.728 x 0.575"	**33Y196**	25
1.25 oz.	2.932 x 0.625"	**33Y197**	25
1.50 oz.	3.437 x 0.625"	**33Y198**	25
1.75 oz.	3.514 x 0.675"	**33Y199**	25
2.00 oz.	3.955 x 0.675"	**33Y201**	25



No. 33Y354



No. 56FM72

Wheel Weight Assortments for Alloy Wheels

Perfect Equipment HOFMANN POWER WEIGHT

Description	Brand	Mfr. Model	Item No.
Empty Rack and Bin Storage System for Cars, 35¾"W x 8¼"D x 39"H	Perfect Equipment	CWW155E	**33Y354**
Wheel Weight Rack	Hofmann Power Weight	SPDRCK-1	**56FM72**


No. 4VCT9


No. 4VCU2


No. 2WFP1

John Bean Ken-Tool WHEREVER TIRES ARE CHANGED™

Tire Changing Systems

Description	Application	Mfr. Model	Item No.
John Bean			
Tilt Tower Tire Changer, System II-E	For OEM to Aftermarket Applications	EEWH512BU	**4VCT9**
Tilt Tower Tire Changer, System IV-E	For OEMs or the Aftermarket	EEWH514BE	**4VCU1**
Tilt Tower Tire Changer, System V	For High Performance Wheel and Tire Assemblies	EEWH517B	**4VCU2**
Ken-Tool			
Manual Tire Changer, Floor Mount	For Tires with Rim Dia. From 4 to 15"	38601	**2WFP1**



Adhesive Wheel Weight

HOFMANN POWER WEIGHT

Weight	Item No.	Pkg. Qty.
H360 Series		
5g.	**55EK12**	100
10g.	**55EK13**	100
15g.	**55EK14**	100
20g.	**55EK15**	100
25g.	**55EK16**	100
30g.	**55EK17**	100
35g.	**55EK18**	50
40g.	**55EK19**	50
45g.	**55EK20**	50
50g.	**55EK21**	50
55g.	**55EK22**	50
60g.	**55EK23**	50

Weight	Item No.	Pkg. Qty.
H361 Series		
5g.	**55EK24**	100
10g.	**55EK25**	100
15g.	**55EK26**	100
20g.	**55EK27**	100
25g.	**55EK28**	100
30g.	**55EK29**	100
35g.	**55EK30**	50
40g.	**55EK31**	50
45g.	**55EK32**	50
50g.	**55EK33**	50
55g.	**55EK34**	50
60g.	**55EK35**	50



Tire Balancing Beads

Dyna Beads

Reusable ceramic beads eliminate the need for spin balancing or rebalancing for the life of the tire. The beads reposition themselves as the tire wears to help maintain a smooth, vibration-free ride.

Description	8 OZ. Item No.	10 OZ. Item No.	12 OZ. Item No.	16 OZ. Item No.
1 Bag	**42X242**	**42X243**	**42X244**	**42X246**
2 Bags	—	**42X238**	**42X239**	**42X237**



No. 2WFN6



No. 6ZCF7



No. 6ZCG0

Ken-Tool
WHEREVER TIRES ARE CHANGED™

Leak Locator and Lubricants

Just spray leak locator on tire to instantly detect air leaks. No. 6ZCG0 has a rust inhibitor and is ideal for OTR and specialty equipment tires.

Description	Mfr. Model	Item No.
Leak Locator		
Mist Leak Concentrate, 32 oz.	35805	**2WFN6**
Lubricants		
Bead-Eze Penetrating Tire Lubricant, 1 gal.	35847	**2WFN7**
Euro Paste, 8-lb. Bucket	35848	**6ZCF7**
Tiger Paste, 7.5-lb. Bucket	35837	**6ZCG0**
Heavy Paste, 25-lb. Pail	35840	**6ZCF8**
Ultra Lubricant, 25 lb.	35839	**6ZCF9**



No. 1EKW9



No. 1EKX3



No. 1EKX6



No. 33K057



No. 33K060

TRU-FLATE™ Xtra seal

Tire Cements, Sealant, and Lubricant

Use to help stop small leaks at rims and around small punctures.

Item	Size	Container Type	Mfr. Model	Item No.
Tru-Flate				
Universal Cement	4 oz.	Can	12-085	**1EKW8**
Universal Cement	8 oz.	Can	12-086	**1EKW9**
Cam-Cure Cement	8 oz.	Can	12-287	**1EKX9**
Universal Cement	1 qt.	—	12-089	**1EKX2**
Concentrated Lubricant and Preservative	1 gal.	Bottle	12-097	**1EKX8**
Tire Bead Sealer	1 qt.	Can with Brush Top	12-090	**1EKX3**
Concentrated Tire Mounting Lubricant	8 lb.	Tub	12-095	**1EKX6**
Xtra Seal				
Tire Repair Cement	8 oz.	—	14-008	**33K057**
Tire Bead Sealer	32 oz.	—	14-101	**33K060**



No. 33W454



No. 33W455

No. 36P426

AME INTL. HALTEC CORPORATION



No. 20KR85



No. 2WFF7

Ken-Tool
WHEREVER TIRES ARE CHANGED™

Tire Mounting and Demounting Tools

Item	L	Mfr. Model	Item No.
Ame			
Manual Bead Breaker	11"	71600	**33W454**
Haltec			
Slide Hammer Bead Breaker	48"	71500	**33W455**
Ken-Tool			
Bead Seating Tool	—	31444	**36P426**
Lug Nut Remover Socket Set	5¾"	30254	**20KR85**
Mount/Demount Tool	37"	34645	**2WFF7**
Thin-Wall Impact Socket Set	9¾"	30259	**20KR86**



No. 20KR86



No. 2HLA8

Ken-Tool
WHEREVER TIRES ARE CHANGED™
WESTWARD®

Lug Wrenches

Four-way wrenches help provide the leverage you need to loosen most lug nuts.

Socket Size	L (in.)	Brand	Item No.
4-Way Lug Wrench			
¾", 13/16", ⅞", 15/16" Sockets	—	Ken-Tool	**8UMX4**
11/16, ¾, 13/16, and ⅞"	14	Westward	**2HLA8**
11/16, ¾, 13/16, and ⅞"	20	Westward	**2HLA9**
11/16", ¾", 13/16", ⅞"	20	Ken-Tool	**46UA51**
11/16", ¾", 13/16", ⅞"	14	Ken-Tool	**46UA53**
¾", 13/16", ⅞", 15/16"	23"	Ken-Tool	**36P419**
⅞, 15/16, 1, and 1 1/16"	25	Westward	**2HLB2**
17, 19, 21, 23mm	14	Westward	**2HLA7**
17, 19, 21, 23mm	20	Westward	**2HLB1**
Double-End Truck Wrench			
1 1/16 x 1 1/8" Hex	16	Ken-Tool	**2WEZ3**

Locknut Sockets OTC®

Make wheel bearing locknuts easy to remove or install. Constructed of high-strength steel and resist rounding out.

Sockets are designed for use with ¾" square-drive manual tools only.

Socket Size	Overall Length	Item No.
6-pt. SAE—¾" Drive		
2¼"	3½"	**4CLK7**
2½"	3"	**4CLK8**
2⅝"	3 13/32"	**4CLK9**
2¾"	5"	**4CLL1**
3"	5"	**4CLJ2**
3⅛"	5"	**4CLL9**
3¼"	5"	**4CLJ4**
3½"	3 57/64"	**4CLJ6**
3¾"	3½"	**4CLL4**
3⅞"	3½"	**4CLJ8**
4"	3½"	**4CLK1**
8-pt. SAE—¾" Drive		
3¼"	3½"	**4CLJ5**
3¾"	3½"	**4CLL3**
4⅜"	3½"	**4CLK4**
4½"	5"	**4CLN4**
4 13/16"	3½"	**4CLN7**



6-pt. No. 4CLL4



8-pt. No. 4CLL3

OTC®

Pry Bar Set

Indexable to 180° to ease access in tight spaces, and features 14 locking positions to help increase leverage.



Description	Overall Length	Mfr. Model	Item No.
3-pc. Indexing Pry Bar Set	10", 12", 15"	7175	**39E951**


Tread Depth Gauge with Pocket Clip
No. 2HKY4


Valve Stem and Core Tool
No. 2HLE5


TPMS Valve Core Torque Tool
No. 2HLE2


Valve Stem Tool
No. 2HLE6

WESTWARD

Tire Service and Repair Tools

Description	Item No.
Tread Depth Gauge with Pocket Clip	2HKY4
Valve Stem and Core Tool	2HLE5
Valve Core Torque Tool	45JW45
TPMS Valve Core Torque Tool	2HLE2
Valve Stem Tool	2HLE6


Tread Depth Gauge
No. 33W514


Digital Tread Depth Gauge
No. 48WC16


Valve Core Extractor with Plastic Handle
No. 33W511


Valve Stem Installation Tool
No. 33W513


Shur-Lock Valve Core Remover
No. 32HE86

HALTEC CORPORATION

Tire Service and Repair Tools

Description	Mfr. Model	Item No.
Tread Depth Gauges		
0-32 32NDS with Pocket Clip	GA-190	33W514
0-32 32NDS with Pocket Clip, Pkg. of 20	GA-190-20	33W505
Digital Tread Depth Gauge	DT-190-32	48WC16
Measures Tread Depth Up to 6"	N-1410	48WC24
Standard Bore Tire Repair Tools		
Valve Core Extractor, All Steel, 2½"L	TL-635	33W512
Valve Core Extractor with Plastic Handle, 4⅜"L	TL-620-1	33W511
Valve Stem Installation Tool, 13¼"L	TL-665-1	33W513
Shur-Lock Valve Core Remover	TL-132	32HE86


No. 1MYP6


No. 1MYT8


No. 33W583


No. 33W496


No. 33W498


No. 33W499

HALTEC CORPORATION

TRU-FLATE

Tire Valves and Accessories

Item	L	Material	Brand	Item No.	Pkg. Qty.
Tire Valves					
Tire Valve	⅞"	Rubbermetal	Haltec	33W522	500
Snap-In Valve	1¼"	Rubber	Tru-Flate	1MYP2	50
Snap-In Valve	1½"	Rubber	Tru-Flate	1MYP6	50
Clamp-In Valve	1¼"	Nickel Plated Metal	Tru-Flate	1MYT8	1
Truck Valve Extension	3⅛"	Metal	Haltec	33W583	10
Truck Valve Extension	6⅛"	Metal	Haltec	33W585	10
Truck Valve Extension	7"	Metal	Haltec	33W581	10
Tire Valve Cores					
Standard Valve Core	—	Brass	Tru-Flate	1MZF1	100
Standard Bore Valve Core	—	Metal	Haltec	33W496	100
Tire Valve Caps					
Dome Shaped Valve Cap	—	Plastic	Tru-Flate	1MZD5	100
Valve Cap	—	Plastic	Haltec	33W498	100
Valve Cap	—	Metal	Haltec	33W499	100
Double Seal Valve Cap	—	Metal	Haltec	33W576	50
Valve Bore Adapter	—	Metal	Haltec	33W574	5
Female Large Bore Valve Adapter	—	Brass	Tru-Flate	1MYZ8	5


No. 33W576


No. 33W574


Tire Knocker
No. 2WFN8


Mount and Demount Tool
No. 36P413


Mount and Demount Tool
No. 6ZCF1


Mount and Demount Spoon
No. 2WFJ1


Bead Breaking Wedge
No. 2WFE7


Bead Lube Swab
No. 2WFN2


Bead Lube Brush
No. 36P425


Wheel Weight Tool
No. 2WFL8

Tire Changing Equipment and Tools

Ken-Tool
WHEREVER TIRES ARE CHANGED™

Description	Mfr. Model	Item No.
Tire Knocker		
Hickory Wood, 18"L	35110	2WFN8
Mount and Demount Tools		
16½"L For Small Tires	32106	36P413
38" Tires	33199	6ZCF0
41"L, For Tubeless Truck Tires	34647	2WFF8
54"L, For 22½" and 24½" Tubeless Truck Tire, up to 13"W Wheel	35440	6ZCF1
Super Duty Tubeless Truck Tire Iron	T45AC	20KT04
Mount and Demount Spoons		
30"L, Straight	33219	2WFH9
30"L, Curved	33220	2WFJ1
Bead Work		
Breaking Wedge with Fiberglass Handle, 32"L	35429	2WFE7
Lube Swab, 12"L	30511	2WFN2
Lube Brush, 11"L	30512	36P425
Wheel Weight Tools		
Standard Duty	35355	2WFL9
Professional Duty	35354	2WFL8


Tread Depth Gauge with Pocket Clip
No. 1MZF7


Valve Core Extractor
No. 1MZG6


4-Way Valve Tool
No. 1MZF9


Double Use Tool
No. 1MZG2


Ball Bearing Stitcher
No. 1ELD1


Tire Buffing Cone
No. 1ELD4

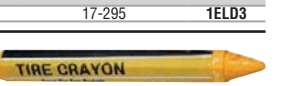
TRU-FLATE

Tire Service and Repair Tools

Description	Mfr. Model	Item No.
Tread Depth Gauge		
With Pocket Clip	40-395	1MZF7
Tire Repair Tools		
Valve Core Extractor, All Metal Construction	41-469	1MZG6
4-Way Valve Tool	41-067	1MZF9
Double Use Tool, Valve Core Remover and Tire Deflation	41-068	1MZG2
Ball Bearing Stitcher with Wood Handle, 1½" dia. x 1⁄16" W	17-244	1ELD1
Tire Buffing Cones		
Heavy Duty 2½" dia., ⅜" Arbor Hole	18-259	1ELD4
Standard Duty, 2" dia., ⅜" Arbor Hole	18-260	1ELD5
Applicator Swab		
Cotton Applicator Swab	17-295	1ELD3



No. 5DYU8



No. 1ELC8

Markal TRU-FLATE

Tire Marking Crayons

Temporary solid paint crayons mark on wet and cold rubber surfaces.

Brand	WHITE Item No.	YELLOW Item No.
Markal	5DYU8	5DYU9
Tru-Flate	1ELC7	1ELC8


No. 33M153


No. 33M150


No. 33M154



No. 1NUV7

Tire Inflator and Inflator Repair Kits

Item	Features	Item No.
Slime		
12-Volt Inflator/Tire Repair Kit	Powerful Re-usable Inflator Features a Bright Led Light an Built-in Tire Pressure Gauge	33M159
12-Volt Tire Inflator	Inflates mid-size car tire in 8 minutes.12 volt , 0 to 100 psi, Gauge and Light. Raft pump	33M153
12-Volt Tire Inflator	Inflates a Car Tire in 8 Minutes	33M152
Hand Floor Bicycle Pump	Ridged Foot Petal For Improved Grip. Metal Barrel. Flexible Air Hose.	33M150
Heavy-Duty 12-Volt Tire Inflator	inflates a Standard Car Tire in 3 Minutes,	33M154
Single Cylinder Foot Pump	Maintaining Proper Tire Pressure Maximizes Tread Life, Improves Vehicle Handling	33M151
Smart Spair Flat Tire Repair Kit	—	1MRF7
Maxair		
Air Pump		1NUV7


No. 1ELB2



No. 1EKY9


No. 1ELC4

Tire Repair

Item	Size	L (in.)	Brand	Item No.	Pkg. Qty.
Automotive and Heavy-Duty Trucks Tire					
Steel Belted Radial Truck Insert	7"	7	Tru-Flate	1ELC2	30
Automotive and Light-Duty Trucks Tire					
Medium Plug-N-Patch	¼" Stem	—	Tru-Flate	1ELC5	20
Medium Plug-N-Patch	¼" Stem	—	Xtra Seal	33K055	24
Medium Round Tube/Bias Tire Patch	2¼"	—	Tru-Flate	1EKZ4	30
Radial Inserts/String Repairs	4"	—	Tru-Flate	1ELA2	10
Radial Inserts/String Repairs	4"	4	Tru-Flate	1ELB2	20
Radial Inserts/String Repairs	4"	4	Tru-Flate	1ELC1	60
Radial Inserts/String Repairs	4"	4¼	Xtra Seal	33K044	60
Radial Inserts/String Repairs	7"	7	Tru-Flate	1ELB3	50
Small Plug-N-Patch	⅛" Stem	—	Tru-Flate	1ELC4	48
Small Round Radial Tire Patch	2¼"	—	Tru-Flate	1EKY9	30
Off-Road Tires					
Radial Inserts/String Repairs	4"	—	Slime	33M147	1

No. 52YX26


No. 1MRE5

Tire Repair Sealants

Provide temporary repair that allows safe travel to tire repair facility.

Item	Container Type	Size	Item No.
Fix-A-Flat			
Temporary Flat Tire Repair			
Tire Inflator Sealant	Aerosol Can	12 oz.	52YX25
Tire Inflator Sealant	Aerosol Can	16 oz.	52YX26
Tire Inflator Sealant	Aerosol Can	20 oz.	52YX27
Tire Inflator Sealant	Aerosol Can	24 oz.	52YX28

Item	Container Type	Size	Item No.
Slime			
Tubeless Tires, Bike, ATV, Auto, Trailer, Motorcycle and Wheelbarrow			
Tire Sealant	Squeeze Bottle	16 oz.	1MRD9
Tire Sealant	Squeeze Bottle	24 oz.	1MRE2
Tire Sealant	Squeeze Bottle	32 oz.	1MRE3
Tire Sealant	Jug with Pump	1 gal.	1MRE5
Tire Sealant	Bucket	5 gal.	1MRE6
Tube Tires, Bike, Dirtbike and Wheelbarrow			
Tire Sealant	Squeeze Bottle	8 oz.	1MRD6
Tire Sealant	Squeeze Bottle	16 oz.	1MRD7
Tire Sealant	Jug with Pump	1 gal.	1MRE4


No. 3CZR1


No. 1ELA3


No. 33K047


No. 33M139


No. 1UEX9

Tire Repair Kits

Item	Includes	Brand	Item No.
Automotive and Light-Duty Trucks Tire			
Large Tire Repair Kit	T-Handle Open-Eye Tool and Probe, Pencil Gauge, 9 String Repairs, Tool Case	Slime	3CZR1
Super-Grip Tire Repair Kit	1 Probe, 1 Needle, 5 Radial Inserts, 1.30 oz. cement	Tru-Flate	1ELA3
Truck Tire Repair Kit	T-Handle Open-Eye Tool and Probe, Lubricant, Retractable Knife, 25 Heavy Duty Inserts, Tool Case	Xtra Seal	33K047
Truck Tire Repair Kit	(25) Passenger Heavy Duty Strings, T-Handle With Needle, Passenger Needle, T-Handle With Spiral Cement Tool	Xtra Seal	33K046
Emergency Repairs On The Largest Truck Tires			
Heavy-Duty Truck Repair Kit	T-Handle Open-Eye Tool and Probe, 2 oz. Universal Cement, 15 Heavy Duty Inserts, Tool Pouch	Tru-Flate	1UEX9
Off-Road Tires			
Off-Road Tire Repair Kit	2 Tubes of Glue, 2 Metal Scuffers and 56 Various Size Patches	Slime	33M139
Off-Road Tire Repair Kit	(4) Valve Cores, (1) 4 Way Tool, (4) Anodized Valve Caps, (3) Plug Repair Strings, (1) 10-50 psi Anodized Pencil Gauge, (1) Screwdriver Reamer tool, (1) Screwdriver Plugger Tool (5) 1⅜" Round Patches, (1) Metal Scuffer, (1) 0.41 oz. Tube Rubber Cement, (3) Repair Plugs, (4) Chrome Hex Caps	Slime	1MRF5

Tire Gauges

Item	Pressure Range	Mfr. Model	Item No.
Haltec			
Digital Tire Pressure Gauge	0 to 160 psi	GA-850-330	48WC39
Slime			
Digital Tire Gauge	5 to 150 PSI	20017	33M133
Dually RV Dial Tire Gauge	10 to 160 PSI	2020-A	33M127
Westward			
Dial Tire Pressure Gauge	0 to 60 psi	2HKY6A	2HKY6
Digital Tire Pressure Gauge	2 to 99.5 psi	2HKY7	2HKY7
Digital Tire Pressure Gauge	0 to 150 psi	2HKX9	2HKX9
Digital Tire Pressure Gauge Kit	0 to 150 psi	2HKX7	2HKX7
Dual Foot Tire Gauge	0 to 160 psi	2HKX2	2HKX2
Winters			
Tire Pressure Gauge	0 to 100 psi	PGV693	38VL21


No. 48WC39


No. 33M133


No. 33M127


No. 2HKY6


No. 2HKX7


No. 38VL21


No. 48WC45


No. 51EP59

No. 51EP10


No. 51EP24


No. 51EP25


No. 48NU08


No. 2HKX4


No. 2HKX3

No. 48NU07


No. 2HKW9


No. 2HKX1

HALTEC CORPORATION | Milton | Especialidades Omega | Westward

Tire Inflator Gauges

Features	Range	Hose Size	Mfr. Model	Item No.
Haltec				
Tire Inflator Gauge				
Gauge Bar in Site Glass, Locking Chuck, 2 PSI Increments	10 to 120 psi	72"	I-440-6	**48WC27**
In-Line Gauge, Locking Chuck, 2 PSI Increments	10 to 120 psi	36"	I-405-3M	**48WC44**
In-Line Gauge, Locking Chuck, 2 PSI Increments	10 to 120 psi	72"	I-405-6M	**48WC45**
Milton				
Dual Head Straight Chuck Inflator Gauge				
Gauge Bar in Site Glass, Straight-on & 30 deg. Reverse Chuck, 12" Swivel Chuck, 2 PSI Increments	10 to 160 psi	24"	517	**51EP16**
Gauge Bar in Site Glass, Straight-on & 30 deg. Reverse Chuck, 2 PSI Increments	10 to 160 psi	15"	S-516	**51EP60**
Dual Head Tire Inflator Gauge				
Gauge Bar in Site Glass, Angled & 30 deg. Reverse Chuck, 2 PSI Increments	10 to 160 psi	15"	S-506	**51EP59**
Gauge Bar in Site Glass, Straight-on & 30 deg. Reverse Chuck, 2 PSI Increments	10 to 160 psi	60"	501	**51EP10**
In-Line Gauge, Angled and 30 deg. Reverse Chuck, 2 PSI Increments	10 to 120 psi	12"	S-522	**51EP63**
Heavy-Duty Truck Tire Inflator Gauge				
Gauge Bar in Site Glass, Straight-on & 30 deg. Reverse Chuck, 2 PSI Increments	10 to 160 psi	60"	553	**51EP24**
Large Bore Tire Inflator Gauge				
Gauge Bar in Site Glass, Kwik Connect Air Chuck, 2 PSI Increments	10 to 160 psi	72"	556	**51EP25**
Omega				
Digital Tire Inflator				
Easy Lock, LCD Digital Read-Out	2 to 160 psi	6"	83016	**48NU08**
Easy Lock, LCD Digital Read-Out	2 to 160 psi	12"	83014	**48NU07**
Westward				
Dual Head Tire Inflator Gauge				
Dial Gauge, Straight-on & 30 deg. Reverse Chuck, 2 PSI Increments	0 to 220 psi	12"	2HKX4	**2HKX4**
Gauge Bar in Site Glass, Angled & 30 Degree Reverse Chuck, 2 PSI Increments	10 to 120 psi	12"	2FDL1	**2FDL1**
Gauge Bar in Site Glass, Straight-on & 30 deg. Reverse Chuck, 2 PSI Increments	10 to 120 psi	144"	2HKX3	**2HKX3**
In-Line Gauge, Angled and 30 deg. Reverse Chuck, 2 PSI Increments	10 to 90 psi	12"	2HKX1	**2HKX1**
Tire Inflator Gauge				
In-Line Gauge, Straight Tapered Chuck, 2 PSI Increments	10 to 90 psi	12"	2HKW9	**2HKW9**


No. 32HF01


No. 48WC36


No. 32HE98


No. 32HE96


No. 33M130


No. 1EZF3


No. 2HKW5


No. 2HKW7

Pencil and Straight On Tire Gauges

HALTEC CORPORATION | slime | TRUCKSPEC | VICTOR | Westward

Features	Pressure Range	Mfr. Model	Item No.
Haltec			
Dual Foot High Pressure Tire Gauge			
Extended Head, Straight-On and 30° Reverse Chuck, 2 psi Increments	20 to 120 psi	GA-160	**32HF01**
Dual Foot Tire Pressure Gauge			
Angled Chuck, 2 psi Increments	10 to 150 psi	GA-135-1	**48WC36**
Extended Head, Straight-On and 30° Reverse Chuck, 2 psi Increments	10 to 150 psi	GA-165	**32HE99**
Grip Handle, Straight-On and 30° Reverse Chuck, 2 psi Increments	10 to 150 psi	GA-155S W/TGG-1	**32HE98**
Recalibratable, Straight-On and 30° Reverse Chuck, 2 psi Increments	10 to 150 PSI	GA-155S-RCL	**33W452**
Straight-On and 30° Reverse Chuck, 2 psi Increments	10 to 150 psi	GA-155-1	**48WC37**
Large Bore Tire Pressure Gauge			
Swivels 360° Chuck, Recalibratable, 2 psi Increments	10 to 150 PSI	GA-255S-RCL	**33W453**
Pencil Tire Pressure Gauge			
4-Sided Nylon Indicating Bar, 1 psi Increments	10 to 50 psi	GA-105	**32HE96**
4-Sided Indicating Bar, 2 psi Increments	20 to 120 psi	GA-115-1	**48WC35**

Features	Pressure Range	Mfr. Model	Item No.
Slime			
Dual Foot Tire Pressure Gauge			
4-Sided Indicating Bar, 2 psi Increments	10 to 120 PSI	2016-A	**33M130**
Angled Chuck, 2 psi Increments	10 to 150 PSI	2021-A	**33M131**
TruckSpec			
Dual Foot Tire Pressure Gauge			
Extended Head, Straight-On and 30° Reverse Chuck, Hang Ring, 2 psi Increments	10 to 150 psi	JL-5018	**52YG17**
Victor			
Dual Foot Tire Pressure Gauge			
Straight-On and 30° Reverse Chuck, 2 psi Increments	10 to 120 psi	00896-8	**1EZF3**
Pencil Tire Pressure Gauge			
Angled Chuck, 2 psi Increments	5 to 50 psi	00902-8	**1EZF4**
Westward			
Dual Foot Tire Pressure Gauge			
Straight-on and 30 deg. Reverse Chuck, 2 psi Increments	10 to 150 psi	2HKW5	**2HKW5**
Straight-on and 30 deg. Reverse Chuck, 2 psi Increments	20 to 120 psi	2HKW6	**2HKW6**
Pencil Tire Pressure Gauge			
4-Sided Indicating Bar, 1 psi Increments	10 to 50 psi	2HKW7	**2HKW7**
4-Sided Indicating Bar, 2 psi Increments	20 to 120 psi	2HKW8	**2HKW8**


No. 41AA48


No. 48WC43


No. 48WC42


No. 48WC32


No. 32HE92


No. 48WC13


No. 32HE85


No. 29RH98


No. 33W443


No. 2HKY2


No. 2HKY3

Air Chucks

Amflo | HALTEC CORPORATION | SPEEDAIRE | Westward

Item	Features	Range	Mfr. Model	Item No.
Amflo				
Ball Foot Air Chuck	Straight-On Air Line Chuck, Snaps on to Standard Tire Valve and Trays Put Until Disconnected	300 psi	17-351	**41AA48**
Haltec				
Air Chuck	Easy Lock	0 to 300 psi	H-5265	**48WC43**
Air Chuck	Easy Lock	0 to 250 psi	H-4660A	**48WC42**
Air Chuck	Good for Inner and Outer Dual Tire	0 to 200 psi	CH-370-LO	**48WC32**
Air Chuck	Easy Attachment and Removal from the Valve	0 to 200 psi	377	**48WC13**
Air Chuck	Easy Lock, Max Pressure 200 psi	—	CH-347-OP	**32HE92**
Air Chuck	Clip-On European Style	200 psi	CH-360	**32HE85**
Air Chuck	European Style Clip-On Air Chuck	5 to 200 psi	CH-360-OP	**29RH98**
Tire Chuck	Reverse Angle	—	CH-350-LO	**33W443**
Speedaire				
Ball Foot Air Chuck	¼" Female NPT	—	AL3000-BG-GRA	**1KUH3**
Westward				
Angled Air Chuck	¼" Female NPT, Angled Chuck for Inflating Inner Wheels	0 to 150 psi	2HKY2	**2HKY2**
Ball Foot Air Chuck	¼" Female NPT	0 to 150 psi	2HKY1	**2HKY1**
Clip-on Ball Foot Air Chuck	Clip Locks Chuck on to Valve Stem for Easy Filling	0 to 150 psi	2HKY3	**2HKY3**


No. 41P252


No. 41P227


No. 41P205


No. 41P194


No. 41P217

HI-RUN TIRES
MARASTAR

Tires and Inner Tubes

Durable tires provide traction for lawn mowers, golf carts, and outdoor equipment without damaging grass. Inner tubes help make quick repairs on flat or damaged tires. For more tire and wheel solutions, search for "tires and wheels" on Grainger.com®.

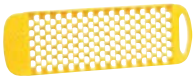
Tire Size	Tread Pattern	Ply	Weight Cap. (lb.)	Brand	Item No.
Trailer Tire					
Tire and Rim					
4.80-8 & 8X3.75 4-4	SU01	4 Ply	590	Hi-Run	**41P242**
4.80-8 & 8X3.75 5-4.5	SU01	4 Ply	590	Hi-Run	**41P241**
5.70-8 & 8X3.75 4-4	H180	4 Ply	715	Hi-Run	**41P243**
4.80-12 &12X4 4-4	SU02	4 Ply	780	Hi-Run	**41P245**
4.80-12 12X4 5-4.5	SU02	4 Ply	780	Hi-Run	**41P247**
ST175/80D13&13X4.5 5-4.5	H180	6 Ply	1360	Hi-Run	**41P251**
ST205/75D14&14X6 5-4.5	H180	6 Ply	1760	Hi-Run	**41P252**
ST205/75D15&15X5 5-4.5	H186	6 Ply	1820	Hi-Run	**41P253**
Tires Only					
4.80-8	SU01	6 Ply	745	Hi-Run	**41P227**
4.80-12	SU02	6 Ply	990	Hi-Run	**41P228**
5.70-8	SU02	4 Ply	715	Hi-Run	**41P223**
18.5 x 8.5-8	SU03	4 Ply	940	Hi-Run	**41P224**
20.5 x 8.0-10	SU03	6 Ply	1105	Hi-Run	**41P225**
20.5 x 8.00-10	SU03	10 Ply	1535	Hi-Run	**41P226**
ST205/75R15	—	8 Ply	1820	Hi-Run	**41P236**
Wheelbarrow Tire					
Tire and Rim					
4.00-6	Turf	4 Ply	300	Marastar	**53DP36**
4.00-6	Rib	4 Ply	300	Hi-Run	**41P209**
4.10/3.50-4	Stud	4 Ply	300	Hi-Run	**41P210**
4.10/3.50-4	Sawtooth	4 Ply	300	Hi-Run	**41P211**
4.80/4.00-8	Rib	2 Ply	400	Hi-Run	**41P203**
4.80/4.00-8	Rib	4 Ply	300	Hi-Run	**41P205**
4.80/4.00-8	Stud	4 Ply	300	Hi-Run	**41P207**
Tire Only					
4.00-6	Rib	4 Ply	300	Hi-Run	**41P208**
4.10/3.50-5	Sawtooth	4 Ply	380	Hi-Run	**41P192**
4.10/3.50-4	Sawtooth	4 Ply	400	Hi-Run	**41P191**
4.10/3.50-6	Sawtooth	4 Ply	400	Hi-Run	**41P193**
4.80/4.00-8	Stud	4 Ply	400	Hi-Run	**41P206**
4.80/4.00-8	Rib	4 Ply	300	Hi-Run	**41P204**
Golf Cart Tire					
Tire and Rim					
18 x 8.5-8	Golf Turf 5 lugs	4 Ply	815	Marastar	**53DP41**
Tire Only					
205/50-10	Golf Turf	4 Ply	675	Marastar	**53DP45**
18 x 8½-8	Golf Turf	4 Ply	815	Hi-Run	**41P194**
18 x 8.5-8	Golf Turf 4 lugs	4 Ply	815	Marastar	**53DP40**
Power Equipment					
Tire Only					
4.10/3.50-4	Stud	2 Ply	230	Hi-Run	**41P180**
4.10/3.50-6	Stud	2 Ply	290	Hi-Run	**41P182**
Riding Mower					
Tire Only					
13 x 5.00-6	Turf	2 Ply	295	Hi-Run	**41P173**
15 x 6.0-6	Turf	2 Ply	365	Hi-Run	**41P171**
16 x 6.5-8	Turf	2 Ply	415	Hi-Run	**41P172**
18 x 8.5-8	Turf	2 Ply	515	Hi-Run	**41P174**
18 x 9.5-8	Turf	2 Ply	695	Hi-Run	**41P175**
20 x 8.00-8	Turf	2 Ply	600	Hi-Run	**41P176**
23 x 10.5-12	Turf	4 Ply	1340	Hi-Run	**41P179**
ATV Tire					
Tire Only					
8 x 9.50-8	Knobby	2 Ply	225	Hi-Run	**41P214**
16 x 8-7	Knobby	2 Ply	110	Hi-Run	**41P213**
25 x 10-12	SU10	2 Ply	365	Hi-Run	**41P217**
22 x 11-8	Knobby	2 Ply	340	Hi-Run	**41P215**
25 x 12-9	Knobby	2 Ply	430	Hi-Run	**41P216**
25 x 8-12	SU10	2 Ply	290	Hi-Run	**41P218**
23 x 8-11	SU10	4 Ply	255	Hi-Run	**41P219**
45/70-6	Knobby	2 Ply	165	Hi-Run	**41P212**

Tire Size	For Use With	Valve	Item No.
Lawn/Garden Inner Tube			
400/410/350-6	Tire Nos. 41P182 and 41P193	TR13	**41P282**
410/350-4	Tire Nos. 41P180 and 41P191	TR87	**41P279**
480/400-8	Tire Nos. 41P204 and 41P206	TR87	**41P288**
480/400-8	Tire Nos. 41P204 and 41P206	TR13	**41P289**
15/600-6	Tire No. 41P171	TR13	**41P284**
18 x 850/950-8	Tire Nos. 41P174 and 41P175	TR6	**41P286**

SUBZERO SNOW AND ICE TOOLS

Tire Snow Chains, Tighteners, and Traction Mats

Provide additional traction to help maintain control under snowy and icy conditions.


No. 16A731
Traction Tire Mats


Passenger, Pickup/SUV
No. 39R857


Singles, V-Bar
No. 3VTL4


Skidsteer Chain
No. 39R866


Chain Tightener
No. 3VTR2

Fits	Brand	Item No.	Pkg. Qty.
Traction Tire Mats			
2 Mats			
25" L x 8" W x 2"H	Subzero	**16A731**	2
Tire Chains			
Dual Triples, V-bar			
215/75-17.5 , 225/70-19.5,235/75-16,235/75-17,245/75-16,LT245/75-16	Peerless	**3VTP4**	2
Passenger, Pickup/SUV			
245/60-20, 245/75-16, LT245/75-16, LT245/75-17, 265/60-18, 265/65-17, 265/70-16, 275/45-20	Peerless	**39R856**	1
225/45-18, 225/50-17, 225/55-16, 235/40-18, 235/45-17, 235/50-16, 245/45-17, 215/55-17	Peerless	**39R851**	1
225/60-18, 235/50-19, 235/55-19, 235/60-18, 235/65-17, 235/70-16, 245/45-20, 255/45-20	Peerless	**39R854**	1
LT235/80-17, 255/55-20, 255/70-18, 265/50-20, 265/65-18, 265/70-17, LT265/70-17, 265/75-16	Peerless	**39R857**	1
Pickup/SUV			
245/60-20, 245/75-16, LT245/75-16, LT245/75-17, 265/60-18, 265/65-17, 265/70-16, 275/45-20	Peerless	**39R841**	1
Single, Wide Base, V-bar			
255/70-17; LT255/75-17; LT265/70-18; 265/75-16; LT265/75-16; LT275/65-18	Peerless	**3VTL8**	2
275/55-20; 275/60-20; LT275/70-18; LT285/70-17; 295/70-17; 305/70-16; LT275/65-18	Peerless	**3VTP3**	2
Singles, V-bar			
8-17.5; 205/75-17.5; LT215/85-16; LT225/75-17; 235/55-19; 245/45-20	Peerless	**3VTL4**	2
8.00-16.5LT; 8.50-16.5LT; 27x8.50-14LT; 205/75-16; 205/80-16; 225/70-15	Peerless	**3VTL5**	2
10.00-22; 11-24.5	Peerless	**3VTP2**	2
10.00-20; 10.00/90-20; 11-22.5; 13/80-20; 285/70-24.5	Peerless	**3VTN4**	2
11.00-20; 12-22.5; 285/80-22.5; 285/80-24.5; 295/80-22.5; 305/80-22.5	Peerless	**3VTN5**	2
12.00-20; 12.75-22.5; 14/80-20; 305/75-24.5; 305/85-22.5; 315/80-22.5	Peerless	**3VTN6**	2
LT235/80-17; LT245/75-17; 245/75-19.5; 255/70-18; LT265/70-17	Peerless	**3VTN9**	2
Single Truck, Bus & RV V-Bar			
215/75-17.5; 225/70-19.5; 235/75-16; 245/70-17; LT245/70-17; LT245/75-16	Peerless	**3VTL9**	2
Skidsteer/Skidloader Chain			
7.50x16, 8.00x16, 10x15, 10x16.5NHS, 29x12x16NHS, 29x13.50x15, 38x10x18, 235/70R15, 235/80R16, 235/75R16.5, 245/75R16, 245/70R17.5, 255/75R15, 255/70R16, 265/70R15, 265/75R15, 265/60R17, 275/55R17, 275/60R17	Peerless	**39R866**	1
Cross Chain			
V-bar, 4/0 x 10 Link			
Single Truck, Bus, RV	Peerless	**3ULG3**	1
Chain Tighteners			
Truck-Spring			
Light Truck Link	Peerless	**3VTR1**	2
Large Truck Link	Peerless	**3VTR2**	2

California Immobilizer™
PROTECTING YOUR INVESTMENT

Wheel Boots and Locks


No. 39C428


No. 39C431

The Enforcer™—Locks are designed for parking enforcement and long-term vehicle storage security. Simple to remove by key holders.

The Protector™—Works as a powerful theft deterrent that offers a comparable level of security to standard car wheel boots. Secured with a push lock.


No. 39C433

TNT Trailer Lock—Thick wall, steel construction lock can be installed on either side of vehicle by reversing wheel clamps.

Description	Use With	Mfr. Model	Item No.
The Enforcer Wheel Clamp Type 1	18 to 24" Wheel, Adjustable	CI00530	**39C428**
The Enforcer Wheel Clamp Type 3	26 to 35" Wheel, Adjustable	CI00560	**39C430**
The Protector Anti-Theft Wheel Lock	0 to 13" wide, Adjustable	CI00520	**39C431**
TNT Truck/Trailer Lock	Single or Dual 22½ to 24½" Wheels	CI00513	**39C433**

LASER TOOLS
CHECKPOINT™
PROFESSIONAL

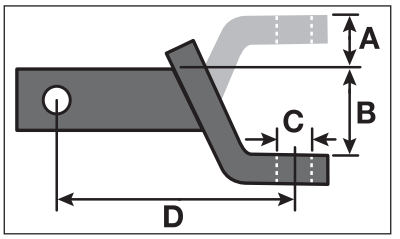
Loose Wheel Nut Indicators

Use these convenient indicators to improve the safety by providing a visual indication of nut movement where it is critical, such as on commercial vehicle wheels. Can also help to identify if a wheel is overheating.



Bolt Hole Spacing	Overall Length	Max. Temp.	Item No.
Orange			
33mm	72mm	329°F	**38XK66**
Red			
33mm	72mm	257°F	**38XK97**

Bolt Hole Spacing	Overall Length	Max. Temp.	Item No.
Yellow			
20mm	57mm	257°F	**38XK75**
21mm	57mm	257°F	**38XK76**
22mm	57mm	257°F	**38XK77**
24mm	57mm	257°F	**38XK79**
27mm	57mm	257°F	**38XK82**
28mm	72mm	257°F	**38XK83**
30mm	72mm	257°F	**38XK85**
32mm	72mm	257°F	**38XK87**
33mm	72mm	257°F	**38XK88**
38mm	84mm	257°F	**38XK92**
40mm	84mm	257°F	**38XK93**
41mm	84mm	257°F	**38XK94**




No. 20PM74


No. 2ZPU9



No. 2ZPV3


No. 2ZPR5


No. 1XUA4


No. 2ZPV5


No. 2PU10


No. 2ZPV8



No. 1XUA7


Draw Bar with Multiple Hitch Balls No. 20PM82


No. 2PJ91


No. 3DPV2


No. 20PN02


No. 6ZAR7

REESE™

Ball Mounts and Accessories

Item	Capacity GVW	Class	Rise (A)	Drop (B)	Ball Hole Size (C)	Length (D)	Includes	Item No.
Fits 2" Square Receiver Opening								
Adjustable Ball Mount	5000 lb.	III	1¾ to 6¼"	3 to 7½"	1"	13½"	Pins and Clip	**20PM74**
Adjustable Tri Ball Mount	2000/10,000 lb.	IV	7"	7"	—	10"	1⅞", 2", and 2⁵⁄₁₆" Balls, Pins and Clips	**2ZPU9**
Ball Mount	5000 lb.	III	6¾"	8"	1"	10"	—	**20PM81**
	5000 lb.	III	4"	5¼"	1"	10"	—	**2PJ82**
	6000 lb.	III	¾"	2"	1"	9"	—	**2YB96**
	6000 lb.	III	¾"	2"	1"	9"	Hex Interlock	**21T181**
	6000 lb.	III	2¾"	4"	1"	9"	—	**20PM79**
Ball Mount Kit	5000 lb.	III	2"	3¼"	1"	9"	2" Hitch Ball, Pin & Clip	**20PV27**
	5000 lb.	III	2"	3¼"	1"	9½"	Hex Interlock 2" Hitch Ball, Pin & Clip	**20PV25**
	6000 lb.	III	¾"	2"	1"	9"	Hex Interlock 2" Hitch Ball, Pin & Clip	**2ZPR5**
	6000 lb.	III	¾"	2"	1"	9"	2" Hitch Ball, Pin & Clip	**20PV24**
Ball Mount w/ Pintle Hook	12,000 lb.	IV	—	—	—	—	2" Hitch Ball and Pintle Hook	**2ZPV3**
	12,000 lb.	III	—	—	—	—	2⁵⁄₁₆" Hitch Ball and Pintle Hook	**2ZPV4**
Black Nickel Ball Mount Kit	6000 lb.	III	¾"	2"	1"	9"	Hex Interlock & 2" Hitch Ball	**20PM86**
Forged Ball Mount	16,000 lb.	III, V	1"	2"	1¼"	8½"	—	**1XUA3**
	16,000 lb.	III, V	3"	4"	1¼"	9¼"	—	**1XUA4**
	16,000 lb.	III, V	5"	6"	1¼"	10¼"	—	**1XUA5**
Forged Black Nickel Ball Mount	7000 lb.	—	½"	2"	1"	8"	Hex Interlock	**45C149**
Pintle Hook Mount	10,000 lb.	III	—	—	—	—	—	**2ZPV5**
Pintle Hook Mounting Plate	10,000 lb.	IV	—	—	—	7¾	7½" X 5" Plate	**2PU10**
Tow Eye	10,000 lb.	—	—	—	—	7⅜"	—	**2ZPV7**
Tow Ring	8000 lb.	—	—	—	—	7⅜"	—	**2ZPV8**
Tri Ball Mount	2000/6000/10,000 lb.	—	0"	0"	—	8"	1⅞", 2", 2⁵⁄₁₆" Black Powder Coated Balls	**1XUA7**
	2000/6000/10,000 lb.	—	0"	0"	—	8"	1⅞", 2", 2⁵⁄₁₆" Chrome Balls	**444G88**
	2000/10,000/16,000 lb.	—	0"	0"	—	8"	1⅞", 2", 2⁵⁄₁₆" Black Powder Coated Balls	**21T081**
Tri Ball Mount w/ Hook	2000/8500/10,000 lb.	IV	0"	0"	1⅞", 2", 2⁵⁄₁₆"	8"	1⅞", 2", 2⁵⁄₁₆" Balls and Hook	**20PM82**
Fits 2½" Square Receiver Opening								
Ball Mount	14,000 lb.	V	1½"	3"	1¼"	9½"	—	**2ZPX7**
Pintle Hook Mounting Plate	18,000 lb.	V	—	—	—	8	7¼ X 5" Plate	**21T075**
Fits 3" Square Receiver Opening								
Dual Ball Mount	12,000/25,000 lb.	V	0"	0"	—	9"	2" & 2⁵⁄₁₆" Balls	**21T080**

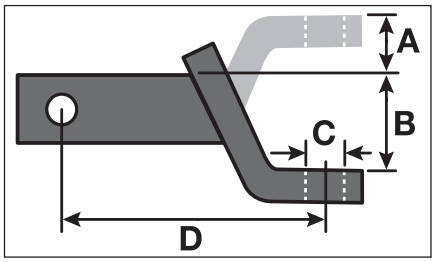

No. 20PV19



Item	Size	For Use With	Item No.	Pkg. Qty.
Towing Accessories				
Safety Chain	36"	—	**1XUB9**	1
Quick Link	¼	For Use With Safety Chains or As Tie-Downs	**1XUC2**	2
Quick Link	⁵⁄₁₆	For Use With Safety Chains or As Tie-Downs	**1XUC1**	2
Hitch Pull Pin	⅝	Class 3, 4 and 5 Drawbars	**2PJ91**	1
Hitch Pull Pin	½	Class 1 and 2 Drawbars	**2PJ92**	1
Hitch Pull Pin	⅝	Class 3 Drawbar	**2PJ94**	1
Hitch Pull Pin	½	Class 3 Drawbar	**2PJ95**	1
Hitch Pin	⅝"	3½" Span for 2½" Square Tube Receiver Hitches	**6ZAT5**	1
Reducer Sleeve	2½"	Fits 2½" Square Receiver Opening	**3DPV2**	1
Lunette Ring Lock		Mfr. No. 745931142, 63022	**6ZAR6**	1
Work Step	11¾"	2" Front Mount Receivers, Rear Class III/IV Receivers	**2ZPT8**	1
Receiver Tube	6"	2" Hitch Bars, Trailer and Tow Vehicle	**20PM69**	1
Reducer Sleeve	13-14/25"	3" Super Titan Receivers to 2" Accessories Can Be Used	**21T078**	1
Towing Chains and Cables				
Safety Chain, S-Hooks	72"	—	**20PN04**	1
Safety Chain, Quick Link	72"	—	**20PN02**	1
Trailer Hitches and Step Bumper Hitches				
Pin and Clip	2⅛"	2" and 2½" Square Receivers	**20PM36**	1
Pin and Clip	1⅛"	—	**20PM39**	1

Item	Cap. GVW (lb.)	Includes	Item No.
Lunette Ring			
Adjustable Lunette Ring	24,000	Adjustable Height Channel Bracket and Hardware	**6ZAR7**
Lunette Ring	42,000	Hardware Kit, (4) ⅝-18 x 2½" L Bolts, (4) Nuts And (4) Washers	**1XUC9**
Pintle Hook			
Pintle Hook	20,000	Mounting Hardware and Pintle Hook	**2PJ98**
Pintle Hook	30,000	Mounting Hardware and Pintle Hook	**2PJ99**
Pintle Hook	60,000	Mounting Information and Pintle Hook	**21T082**
Pintle Hook and Ball	16,000	Mounting Hardware, 1⅞" Hitch Ball and Pintle Hook	**20PV21**
Pintle Hook and Ball	16,000	Mounting Hardware, 2⁵⁄₁₆" Hitch Ball and Pintle Hook	**20PV19**
Pintle Hook and Ball	16,000	Mounting Hardware, 2" Hitch Ball and Pintle Hook	**2PJ97**

Cap. GVWR (lb.)	Shank Length (in.)	Shank Dia. (in.)	Type	Item No.
Trailer Hitch Balls				
1⅞" Ball Dia.				
2000	1½	¾	Chrome	**2PJ83**
	2⅜	¾	Chrome	**2PJ86**
2" Ball Dia.				
6000	2	1	Chrome	**2PJ85**
	2	1	Interlock	**21T185**
8000	2¾	1¼	Chrome	**21T099**
2⁵⁄₁₆" Ball Dia.				
6000	2	1	—	**2PJ88**
	2	1	Interlock	**21T183**
17,000	2¾	1¼	Chrome	**3CZP5**
1⅞, 2, and 2⁵⁄₁₆" Ball Dia.				
8000	2⅜	1	Chrome	**1XUC7**























Ball Mounts and Accessories

Item	Cap. GVW (lb.)	Rise (A)	Drop (B)	Length (D)	Includes	Finish	Item No.
Fits 2" Square Receiver Opening							
Adjustable Tri Ball Mount	6000/7500/10,000	6"	6"	—	1⅞", 2", and 2⁵⁄₁₆" Balls, Pins and Clips	Black	**30PD22**
Dual Ball Mount	7500/10,000	0"	0"	8"	2" & 2⁵⁄₁₆" Balls	Black	**30PD25**
Hitch Receiver Extension	—	—	—	12"	—	Black	**3KYC3**
	—	—	—	18"	—	Black	**3KYC6**
Pintle Hook Mounting Plate	20,000	—	—	—	3¾" Plate	Black	**30PD78**
	14,000	—	—	—	7⅜" Plate	Black	**30PD79**
	15,000	—	—	—	5¾" Plate	Black	**30PD74**
Tow Eye	12000	—	—	11¾"	—	Black	**3KYE6**
Tri Ball Mount	6000/7500/10,000	0"	0"	8"	1⅞", 2", 2⁵⁄₁₆" Black Powder Coated Balls	Black	**30PD27**
	6000/7500/10,000	0"	0"	8"	1⅞", 2", 2⁵⁄₁₆" Chrome Balls	Chrome	**30PD26**
Tri Ball Mount w/ Hook	6000/7500/10,000	0"	0"	8"	1⅞", 2", 2⁵⁄₁₆" Black Powder Coated Balls w/Hook	Black	**30PD24**
Tri Ball Mount w/ Pintle Hook	6000/7500/10,000	0"	0"	8"	1⅞", 2", 2⁵⁄₁₆" Chrome Balls w/Pintle Hook	Black	**3KXY3**
Fits 2½" Square Receiver Opening							
Pintle Hook Mounting Plate	16,000	—	—	—	6¼" Plate	Black	**30PD68**





Item	Cap. GVW (lb.)	Includes	Item No.
Pintle Hooks			
Air Compensated Pintle Hook	100,000	—	**30PD51**
Pintle Hook	30,000	Mounting information and Pintle Hook	**6ZAP0**
Pintle Hook	30,000	—	**30PD71**
Pintle Hook	40,000	Mounting information and Pintle Hook	**6ZAP1**
Pintle Hook	60,000	—	**6ZAP2**
Pintle Hook	90,000	—	**6ZAP3**
Pintle Hook	40,000	Mounting Information	**30PD64**
Pintle Hook and Ball	12,000	2" Hitch Ball and Pintle Hook	**3KYE9**
Pintle Hook and Ball	16,000	2⁵⁄₁₆" Hitch Ball and Pintle Hook	**3KYF3**
Pintle Hook Mount	10,000	—	**3KXX6**
Swivel Pintle Hooks	50,000	Mounting information and Pintle Hook	**30PD52**
Swivel Pintle Hooks	60,000	Mounting information and Pintle Hook	**30PD48**
Lunette Ring			
Adjustable Lunette Ring	12000	Adjustable Height Channel Bracket and Hardware	**3VUJ4**
Lunette Ring	15000 MVL, 60000 MGTW	Hardware Kit, (4) Bolts, (4) Nuts, (4) Washers	**3YCA9**

Item	Dia.	L	Includes	Item No.
Accessories				
Hitch Pin	½"	4"	Zinc-Plated Cotter Pin	**6ZAK9**
Hitch Pin	⅞"	4½"	Zinc-Plated Cotter Pin	**6ZAL2**
Hitch Pin	½"	3¹³⁄₆₄"	Cotter	**426U11**
Hitch Pin	⅝"	4½"	Cotter	**426U10**
Hitch Pin	⅝"	5½"	—	**426U12**
Hitch Pin	⅝"	6"	—	**426U13**
Hitch Pin	⅝"	4"	Cotter	**426U14**
Hitch Pin	⅝"	4"	Spring Clip	**426U15**
Folding Step	—		—	**3VTD6**
Tow Eye	—	8"	—	**48XW73**













Trailer Couplers

Capacity GVW	Class	Ball Size	Tongue Width	Finish	Brand	Item No.
Trailer Couplers						
2000 lb.	I	1⅞"	2"	Zinc Coated	Bulldog	**20PN24**
3500 lb.	II	2"	2½"	Zinc Coated	Reese	**20PN22**
3500 lb.	II	2"	3"	Zinc Coated	Reese	**20PN23**
7000 lb.	IV	2"	2⅞"	Gray Primer	Bulldog	**20PN07**
7000 lb.	IV	2"	—	Black Primer	Bulldog	**20PN09**
12,500 lb.	IV	2⁵⁄₁₆"	2⅞"	Gray Primer	Bulldog	**20PN08**
14,000 lb.	IV	2⁵⁄₁₆"	—	Painted Gray Primer	Bulldog	**21T086**
15,000 lb.	V	2⁵⁄₁₆"	—	Unfinished	Buyers Products	**426U35**
Multi-Fit Trailer Coupler						
3500 lb.	II	—	2½" and 3"	Zinc Coated	Reese	**1XUB2**
A-Frame Trailer Coupler						
5000 lb.	III	2"	50° A-Frame	Prime Painted	Fulton	**5W232**



REESE™ BULLDOG Buyers

Trailer Jacks

Description	Lifting Capacity	Lift Range	Retracted Length	Overall Height	Adjustment Range	Brand	Item No.
Topwind Trailer Jacks							
Bolt On	2000 lb.	10"	17.7"	27.7"	10	Reese	**20PR67**
Weld-On L-Head Swivel Bracket	5000 lb.	10"	17.95"	27.95"	10	Reese	**20PR83**
Direct Weld	2000 lb.	10"	17.8"	27.8"	10	Bulldog	**5W027**
Swivel with Weld-On Tubular Mount	2000 lb.	10"	17.8"	27.8"	10	Bulldog	**2PU11**
	2000 lb.	10"	17.9"	27.9"	15"	Bulldog	**2ZPR3**
	3000 lb.	15"	25"	40"	15"	Bulldog	**5MGR3**
	5000 lb.	10"	17.9"	27.9"	10"	Bulldog	**2ZPR4**
	5000 lb.	15"	27.4"	42.4"	15	Bulldog	**9KEZ8**
Drop Leg—Direct Weld	5000 lb.	15"	25.5"	54"	28.5	Bulldog	**5MGR4**
	7200 lb.	10"	20.1"	40.2"	20.12	Reese	**20PR68**
A-Frame Mount	2000 lb.	15"	23.2"	38.2"	15	Bulldog	**5MGP9**
	5000 lb.	15"	23.2"	38.2"	15	Bulldog	**5MGR0**
	5000 lb.	15"	23.7"	38.7"	15"	Bulldog	**5W026**
Sidewind Trailer Jacks							
Direct Weld	2000 lb.	13"	19.6"	34.6"	13	Bulldog	**5W025**
Swivel with Weld-On Tubular Mount	2000 lb.	10"	17.3"	27.3"	10	Bulldog	**5MGR2**
	2000 lb.	15"	26.8"	41.8"	15	Bulldog	**8PMZ9**
	2000 lb.	15"	27.3"	42.3"	15	Bulldog	**5MGR1**
	5000 lb.	10"	16.9"	26.9"	10	Bulldog	**8DDF6**
	7000 lb.	15"	22.4"	37.4"	15	Bulldog	**8ZG51**
	—	—	11¼"	—	—	Bulldog	**8CTZ0**
Fixed-Leg with Base	3000 lb.	15"	24.4"	39.4"	15	Reese	**20PR66**
Drop Leg—Direct Weld	5000 lb.	28.5"	25.1"	53.6"	28.5	Bulldog	**2PU12**
Direct Weld, Crank Handle Sold Separately, No. 6ZAT2	10,000 lb.	12.5"	27.4"	53.5"	26	Bulldog	**5MGR7**
2-Speed—Direct Weld	10,000 lb.	12.6"	27.5"	53.6"	26	Reese	**20PR69**
2-Speed—Direct Weld, Crank Handle Sold Separately, No. 6ZAT2	10,000 lb.	12½"	29½"	55.6"	26	Bulldog	**21T090**
Powered Jack							
A-Frame Mount	4000 lb.	8" to 14"	8"	33"	—	Bulldog	**48UX97**
	3500 lb.	24"	12"	33"	24"	Buyers Products	**426U20**
Jack Accessories							
Sidewind Jack Crank Handle						Bulldog	**6ZAT2**
Top Wind Jack Crank Handle						Bulldog	**2ZPR6**
Base Plate Kit						Bulldog	**2ZPT4**
Wheel Caster for Nos. 5W025 and 5W026						Bulldog	**5W029**
Support Foot for Nos. 5W025 and 5W026						Bulldog	**5W030**



FULTON® REESE™

Trailer Jacks

Base	Mounting Brackets	Lifting Capacity	Lift Range	Retracted Length	Overall Height	Adjustment Range	Item No.
Fulton							
Sidewind Trailer Jack							
6" Poly Wheel	Bolt On	1200 lb.	10"	23"	33"	10"	**5W023**
8" Poly Wheel	Bolt On	1500 lb.	10"	25½"	35½"	10"	**2PU13**
8" Poly Wheel	Bolt On	1600 lb.	10"	26½"	36½"	10"	**20PV07**
7" Poly Dual Wheel	Bolt On	1600 lb.	10"	12½"	29"	10"	**444G79**
Topwind Trailer Jack							
Footplate	Weld-On Tubular Mount	5000 lb.	10"	17"	27"	15"	**5W028**
Trailer Stand							
6" Poly Wheel	Bolt On	400 lb.	15"	14½"	18"	Fixed	**20PR77**
Reese							
Sidewind Trailer Jack							
6" Poly Dual Wheel	Bolt On	1500 lb.	12"	26"	38"	12"	**20PV04**
Drop Leg	Bolt On	2500 lb.	15"	25¼"	53¾"	28½"	**20PV09**
Wheel	Snap Ring Swivel Bolt through	1000 lb.	10½"	12¾"	23¼"	10"	**6ZAR9**
8" Poly Wheel	Bolt On	1500 lb.	12"	27½"	39½"	12"	**20PV03**
7" Footplate	Bolt On	2000 lb.	10"	22½"	32½"	10"	**20PV06**
Drop Leg	Bolt On	5000 lb.	28.5"	25"	53.5"	28.5	**20PV05**
Topwind Trailer Jack							
Round Foot Plate	Snap Ring Swivel Bolt through	1000 lb.	10"	10"	17½"	9½"	**6ZAT0**

IPA REESE™ Grote

Trailer Electrical Adapters


No. 440A84


No. 21T096


No. 21T094


No. 2ZPX1


No. 21T092

Item	Vehicle Connection	Trailer Connection	Includes	Brand	Item No.
Trailer Wiring Adapters					
3-Way Trailer Adapter	7-Way Blade	6-Way Pin, 5-Way Flat or 4-Way Flat	Dust Cover	Ipa	**18M476**
Dual Port Trailer Adapter	4-Way Flat	4-Way Flat or 7-Way Blade	Wires to Connect Brakes, Backup Lights Or Auxiliary Power	Reese	**21T093**
Trailer Adapter	7-Way Blade	6-Way Pin or 4-Way Flat	Dust Cover, Grease Pack	Hopkins Towing Solutions	**440A99**
Trailer Adapter	7-Way Round	4-Way Flat	Dust Cover	Hopkins Towing Solutions	**440A84**
Trailer Adapter	7-Way Blade	6-Way Round	Dust Cover	Hopkins Towing Solutions	**440A86**
Trailer Adapter	7-Way Blade	5-Way Flat or 4-Way Flat	LED Circuit Tester	Reese	**21T096**
Trailer Adapter	7-Way Blade	4-Way Flat	LED Circuit Tester	Reese	**21T094**
Trailer Adapter With Backup Alarm	7-Way Blade	7-Way Blade	Pass Through Instant Backup Alarm	Reese	**2ZPX1**
Trailer Adapter With Coil Cable	7-Way Blade	5-Way Flat	6 ft. Full Extension Coil Cable	Reese	**21T092**
Trailer Adapter With Coil Cable	7-Way Blade	4-Way Flat	7.5 ft. Full Extension Heavy Duty Coil Cable	Reese	**2ZPX6**
Trailer Wiring Accessories					
Circuit Protected Power Converter and Wiring Kit				Reese	**48UX96**
Coiled ABS Power Cord, 15 ft.				Grote	**2VPV8**
Trailer Wire, 4-Way Flat, 16 ga, 25 ft.				Reese	**5JJK8**
Waterproof Utility Trailer Harness Kit, 25 ft.				Grote	**2FEH8**


No. 5JJK8


No. 49ZT64

Item	Used For	Operating Range	Type	Includes	Brand	Item No.
Tester Kits						
Trailer Light Tester Kit	Diagnostics	6 to 24VDC	Scan Tool	Battery Charger	IPA	**49ZT65**
Trailer Tester	Diagnostics	6 to 24VDC	Scan Tool	Battery Charger, (3) Way Trailer Adapter	IPA	**49ZT64**
Trailer Tester, Smart MUTT® (7 Round Pin)	Trailer Light And ABS	20A @ 12V DC	7 Round Pin	3 Button Remote Control, External Battery Connector, Chassis Ground Cable, 500mA Battery Charger, 5 ft. 7-Way Cable	IPA	**48PY47**
Trailer Tester, Super MUTT® Deluxe	Trailer Light, Air Brake, and ABS	20A @ 12V DC	7 Round Pin	12 Button Remote Control, (2) 3 Button Remote Controls, 5 ft. 7-Way Cable, Chassis Ground Cable, External Battery Connector, 8 ft. Glad Hands, 10A Battery Charger, Face/ Battery Shield, and Rain Cover	IPA	**48PY49**

B/A PRODUCTS CO. Buyers GA GRAINGER APPROVED REESE™

Trailer Accessories


No. 30PD33


No. 30PD32


No. 30PD31


No. 30PD35


No. 19A780


No. 3ULU4


No. 20PM99

Description	Item No.
B/A Products Co.	
Grab Hook, Weld-On, ⅜" Chain	**3YFX3**
Buyers Products	
D-Ring, ½" dia., 1 1/16" Forged Weld-on Mounting Bracket	**30PD33**
D-Ring, ½" dia., 1 Hole Bolt-On Bracket	**30PD32**
D-Ring, ½" dia., 2-Hole Bracket	**30PD30**
D-Ring, ½" dia., 2-Hole Mounting Bracket	**30PD31**
D-Ring, ½" dia., Forged, Extended Size	**426T83**
D-Ring, ¼" dia., Provides Sturdy Holding Power for Tools and Equipment, ¼" Holes	**426T66**
D-Ring, ¼" dia., Provides Sturdy Holding Power for Tools and Equipment, Ring 1 1/16" H x 1 ½" W, Base 2 3/16" L x 1 ¼" W, Hole ¼" dia.	**426T64**
D-Ring, ¾" dia., With ⅜" Weld On Mounting Bracket	**30PD40**
D-Ring, ⅝" dia., ⅜" Thick Forged Bracket Welded on a ¼" Steel Plate	**30PD35**
D-Ring, ⅝" dia., Forged, Extended Size	**426T82**
D-Ring, 1" dia., With ⅜" Mounting Bracket	**30PD39**
EZ Gate™ Tailgate Assist	**19A780**
Lashing Ring, 1" dia., Curved, Weld-On Mounting Bracket	**3VUJ3**
Rope Ring, ¼" dia., Provides Sturdy Holding Power for Tools and Equipment	**426U77**
Spring Latch Assembly with Handle, 4 ½"L	**3ULU4**

Description	Item No.
GA	
D-Ring, ½" dia., 2-Hole Mounting Bracket is 1 ¾" Wide and 3/16" Thick With Square Mounting Holes to Accept ⅜" Carriage Bolts	**3LLP7**
Reese	
Spare Tire Cable, 5/16" x 4 ft. with Steel Padlock	**20PM99**


No. 6ZAR3


No. 6ZAT7

No. 39C437


No. 2ZU73

No. 3NY53


No. 2ZU74


No. 3UU67


No. 2ZU76


No. 3KJN3


No. 1YCE8


No. 14R885

REESE™ Master Lock

California Immobilizer Buyers

Trailer/Truck Security Devices

Item	Size	Lock Type	Brand	Item No.
Hitch Locks				
Receiver Lock	⅝"	Bent Pin	Reese	**6ZAT7**
Receiver Lock	½" or ⅝"	Dual Bent Pin	Reese	**1XUB7**
Receiver Lock	⅝"	Universal	Reese	**1XUB8**
Receiver Lock	½" and ⅝"	Universal	Master Lock	**2ZU73**
Receiver Lock	⅝"	Barbell	Master Lock	**2ZU74**
Receiver/ Coupler Lock	⅝"	Barbell	Master Lock	**2ZU75**

Item	For Use With	Brand	Item No.
Coupler Locks			
Coupler Lock	Most Popular Branded Couplers	Master Lock	**2ZU76**
Coupler Lock	1⅞", 2", and 2 5/16" Couplers	Master Lock	**2ZU77**
Coupler Lock	Trailer Couplers, Trailer Coupler Latch Locks and Receiver Locks	Master Lock	**1YCE7**
Coupler Lock	Trailer Couplers	Master Lock	**1YCE8**
Coupler Lock	1⅞", 2", and 2 5/16" Couplers	Reese	**1XUC3**
Coupler Lock	Trailers for Security While in Storage	Reese	**6ZAR3**
Coupler Lock	Fits all couplers 1⅞" to 2", 2 5/16" and ¾" Raised Lip	California Immobilizer	**39C434**
Coupler Lock	—	California Immobilizer	**39C435**
Pintle Lock Ring	5"x 5" Plate Cover Pintle, Push Lock, Trailers and Towing	California Immobilizer	**39C437**
Trailer Lock	—	Master Lock	**3NY53**
King Pin Lock			
King Pin Lock	—	Master Lock	**3UU67**
Wheel Pin Lock	King pin and Fifth wheel couplers	Master Lock	**6XDP5**
King Pin Lock	2" King Pins	Jendyk	**3KJN3**
King Pin Lock	2" King Pins	Buyers Products	**6ZAN5**
Truck Bed Security			
Universal Fit Tailgate Lock	—	Master Lock	**14R885**


No. 2ZJJ8


No. 5EVZ6


No. 2FAC3




No. 2TVT3


No. 2FAD3


No. 450X99


No. 21DJ21




No. 52YG21

EATON Parker CRC
TRAMEC SLOAN VELVAC
GA GRAINGER APPROVED OTC

Air Brake and Gladhands Accessories

Gladhands—Connect tractor air coils to trailer. Color-coded. Durable polyurethane seals will not crack or tear.

Gladhand Locks—Lock to the emergency-side gladhand on a trailer to help prevent tampering or theft. Each includes 2 keys.

Pogo Stick Air Hose Support Poles—Support for air, vacuum, and electrical lines. No. 21DJ22 gladhand holder provides a seal when tractor is disconnected from the trailer.

Item	Color	Includes	Material	Brand	Item No.
Air Brake Tubing					
Hose Assembly	Red/Blue	12 ft Tubing/ Fitting	Nylon	Eaton Synflex	2ZJJ8
Air Brake Coil	Blue and Red	12 ft Tubing/ Fitting	Nylon	Parker	6UTF0
Air Brake Coil	Blue and Red	15 ft Tubing/ Fitting	Nylon	Parker	6UTF1
Antifreeze and Coolants					
Air Brake Antifreeze and Conditioner 32 oz				CRC	5EVZ6
Air Brake Antifreeze and Conditioner 1 gal				CRC	5EVZ7
Gladhands					
Gladhand	Red	Umbrella Seal	Steel	Tramec Sloan	2ZJK2
Gladhand	Blue	—	Steel	Tramec Sloan	2ZJK8
Gladhand	Black	—	Steel	Tramec Sloan	2ZJK9
Gladhand	Red	Color Coded Polyurethane Seal	Aluminum	Velvac	2FAC3
Gladhand	Blue	Color Coded Polyurethane Seal	Aluminum	Velvac	2CTT9
Gladhand Accessories					
Glad-Lock(TM) Assembly	Red	Keyed Alike	Polypropylene	Velvac	2FAD3
Gladhand Lock	Red	Not Keyed Alike	Polyethylene	GA	5MGM0
Gladhand Lock	Red	Keyed Alike	Polyethylene	GA	5ZVP3
Gladhand Lock	Red	Not Keyed Alike	Polyethylene	Jendyk	3KJL4
Gladhand Lock	Red	Keyed Alike	Polyethylene	Jendyk	3KJL6
Gladhand Lock	Red	Keyed Alike	Aluminum	Jendyk	450X99
Gladhand Lock	Red	Not Keyed Alike	Aluminum	Jendyk	450Y01
Gladhand Seals					
Gladhand Seal	Black	Replacement	Polyurethane	Velvac	2FAD1
Automotive Specialized Tools					
Gland Nut Wrench	—	Adjustable	—	OTC	2TVT3
Hose and Cable Supports					
Pogo Stick	—	40 in Length	Stainless Steel	Velvac	21DJ21
Pogo Stick	—	41 in Length	Stainless Steel	Velvac	21DJ22
Pogo Stick	—	25 in Length	Plated Steel	Velvac	21DJ92
Pogo Stick	—	41 in Length	Plated Steel	Velvac	21DJ93
Pogo Stick	—	51 in Length	Plated Steel	Velvac	21DJ94
Pogo Stick	—	25 in Length	Chromed Steel	Velvac	21DJ95
Pogo Stick	—	41 in Length	Chromed Steel	Velvac	21DJ96
Tire Chucks and Inflators					
Tire Inflator Kit	—	50 ft Hose, Gladhand, Straight Lock On Chuck	Plastic	General Power Industrial Co.	52YG21


No. 2ZJW4

EATON Parker

Air Brake Tubing

Colors help quickly identify lines.

Outside Dia.	Color	L	Material	Item No.
Type A - Nonreinforced				
Eaton Synflex				
¼"	Black	1000 ft.	Solstice	35Z896
¼"	Black	100 ft.	Solstice	35Z897
¼"	Blue	100 ft.	Solstice	35Z906
5⁄16"	Black	100 ft.	Polyamide	2ZJV5
Parker				
⅛"	Black	100 ft.	Nylon	6UTG5
5⁄32"	Black	100 ft.	Nylon	6UTG3
¼"	Black	100 ft.	Nylon	6UTH5
¼"	Black	1000 ft.	Nylon	6YAA9
¼"	Black	250 ft.	Nylon	6YAC0
¼"	Blue	250 ft.	Nylon	6YAC2
¼"	Green	250 ft.	Nylon	6YAC5
¼"	Red	250 ft.	Nylon	6YAD0
¼"	Red	1000 ft.	Nylon	6YAC9
¼"	Yellow	250 ft.	Nylon	6YAD4
Type B - Reinforced				
Eaton Synflex				
⅜"	Black	100 ft.	Polyamide/ Polyester	2ZJW4
⅜"	Blue	100 ft.	Polyamide/ Polyester	2ZJX5
⅜"	Red	100 ft.	Polyamide/ Polyester	2ZJW6
½"	Black	100 ft.	Polyamide/ Polyester	2ZJX7
Parker				
⅜"	Black	100 ft.	Nylon	6YAD5
⅜"	Black	250 ft.	Nylon	6YAD7
½"	Black	100 ft.	Nylon	6YAF2
Type B - Reinforced, 1⁄16" I.D., 1⁄16" Wall Thickness				
½"	Blue	100 ft.	Nylon	6YAF4


90° Swivel Male Elbow
No. 11K674

Parker

Union
No. 11G333

Brass Air Brake Connectors

Compression fittings come standard with preapplied thread sealant.

Item	Tube Size	Pipe Size	Item No.
Push to Connect			
Bulkhead Union Tube x Tube	⅜"	—	11K704
	½"	—	11K705
Male Connector Tube x MNPT	⅜"	⅛"	11K655
	⅜"	¼"	11K656
	½"	¼"	11K659
	⅜"	⅜"	11K657
	½"	⅜"	11K660
	⅝"	⅜"	11K662
	⅜"	½"	11K658
	½"	½"	11K661
	⅝"	½"	11K663
Male Elbow,90° Swivel Tube x MNPT	¼"	⅛"	11K674
	¼"	¼"	11K675
	⅜"	¼"	11K678
	½"	¼"	11K681
	⅜"	⅜"	11K679
	½"	½"	11K683
	⅝"	½"	11K685
Union Tube x Tube	⅜"	—	11K689
Union Tee Tube x Tube x Tube	¼"	—	11K693
DOT Fitting			
Male Elbow,90°	¼"	—	16W562
	⅜"	—	16W564
	½"	—	16W568
Straight Union	¼"	—	16W604
	⅜"	—	16W605
	½"	—	16W606
	⅝"	—	16W607
Union Tee	¼"	—	16W612
	⅜"	—	16W613
Compression			
Male Connector Tube x MNPT	¼"	⅛"	11G261
	¼"	¼"	11G262
	⅜"	¼"	11G265
	¼"	⅜"	11G263
	⅜"	⅜"	11G266
	½"	⅜"	11G269
Male Elbow,90° Tube x MNPT	¼"	⅛"	11G287
	⅜"	⅛"	11G290
	¼"	¼"	11G288
	⅜"	¼"	11G291
	⅜"	⅜"	11G292
	½"	⅜"	11G295
	⅝"	½"	11G298
Nut Thread	⅜"	—	11K642
Sleeve Tube	¼"	—	11G352
	⅜"	—	11G353
	½"	—	11G354
Union Tube x Tube	¼"	—	11G333
	⅜"	—	11G334
	½"	—	11G335
	⅝"	—	11G336
Union Tee Tube x Tube x Tube	¼"	—	11G343
Through Type Insert Tube	¼"	—	11K646
	⅜"	—	11K647
	½"	—	11K648
	¾"	—	11K650

Item	Tube Size	Pipe Size	Item No.
Male, Swivel			
Male Elbow Quick Connect	⅝"	½"	2ZKN8
Male			
Male Connector Compression Nylon Tube	¼"	⅛"	2ZLF4
	¼"	¼"	2ZLF6
	⅜"	¼"	2ZLF9
	⅜"	⅜"	2ZLG4
	⅜"	½"	2ZLG6
	½"	⅜"	2ZLG8
	⅝"	½"	2ZLE9
Male Connector Quick Connect	¼"	⅛"	2ZKL6
	¼"	¼"	2ZKL7
	¼"	⅜"	2ZKL8
	¼"	¼"	2ZKZ4
	¼"	⅛"	2ZKZ2
	⅜"	¼"	2ZKL9
	⅜"	⅛"	2ZKN1
	⅜"	⅜"	2ZKN2
	⅜"	⅜"	2ZLA1
	⅜"	¼"	2ZKZ6
	½"	⅜"	2ZKN4
	½"	¼"	2ZKN5
	½"	½"	2ZKN6
	⅝"	½"	2ZKK9
Male Elbow Compression Nylon Tube	¼"	⅛"	2ZLJ4
	¼"	¼"	2ZLJ6
	⅜"	¼"	2ZLK1
	⅜"	⅛"	2ZLK5
	⅜"	⅜"	2ZLK7
	⅝"	½"	2ZLH5
	¾"	½"	2ZLJ2
Male Elbow Quick Connect	¼"	⅛"	2ZKP5
	¼"	¼"	2ZKP7
	⅜"	¼"	2ZKR2
	⅜"	⅛"	2ZKR5
	⅜"	⅜"	2ZKR7
	⅝"	½"	2ZKN7
Swivel Male Elbow Quick Connect	¼"	⅛"	2ZKP6
	¼"	¼"	2ZKP8
	½"	¼"	2ZKT5


Connector (M)
No. 2ZKK9


90° Elbow (M)
No. 2ZKN7


Union (F)
No. 2ZKJ1

EATON

Brass Air Brake Connectors

For use on all brake systems, except where temperatures exceed 200°F. .

Item	Tube Size	Pipe Size	Item No.
Female			
Female Bulkhead Quick Connect	¼"	¼"	2ZKY1
Female Connector Quick Connect	⅜"	⅜"	2ZKK5
Tee Quick Connect	¼"	—	2ZKJ4
	⅜"	—	2ZKJ5
Union Compression Nylon Tube	¼"	—	2ZLD6
	⅜"	—	2ZLD7
	½"	—	2ZLD8
	⅝"	—	2ZLD4
Union Quick Connect	¼"	—	2ZKJ1
	⅜"	—	2ZKJ2
	½"	—	2ZKJ3
	⅝"	—	2ZKH7

Security Seals

TydenBrooks SECURITY PRODUCTS GROUP

- Random Numbers
- No Barcoding

Security seals offer a large variety of options to help safeguard equipment, tools, truck contents and other items.

Primary Material	Primary Color	Useable Length	Breaking Strength	Tool Required	Item No.	Pkg. Qty.
Embossed Fixed Length Seals						
Primary Use(s): Bulk Tanker, Coin Bags, Container Seals, Drums, Hatches, Mail Bags, Rail Cars, Tote Box, Trailer Seals, Truck Seals, Valves						
Tin	Silver	8 27/64 in	110 lb	Removal	2YJZ8	50
	Silver	8 3/8 in	100 lb	Removal	2YJZ7	50
	Silver	8 3/8 in	100 lb	Removal	6GHZ2	1000
Hot Stamped Adjustable Length Seals						
Primary Use(s): Bulk Tanker, Coin Bags, Container Seals, Drums, Hatches, Mail Bags, Rail Cars, Tote Box, Trailer Seals, Truck Seals, Valves						
Polyethylene	Blue	7 1/2 in	112 lb	Removal	52AZ88	100
	Red	7 1/2 in	112 lb	Removal	52AZ87	100
	Blue	8 3/4 in	112 lb	Removal	52AZ86	100
	Red	8 3/4 in	112 lb	Removal	52AZ85	100
Polypropylene	Blue	15 in	112 lb	Removal	52AZ90	100
	Green	15 in	112 lb	Removal	52AZ91	100
	Red	15 in	112 lb	Removal	52AZ89	100
	Yellow	15 in	40 lb	Not Required	52AZ79	50
Primary Use(s): Container Seals, Rail Cars, Truck Seals						
Acrylic	Red	8 in	35 lb	Removal	407J97	100
Polypropylene	Blue	6 in	40 lb	Removal	407J60	50
	Green	6 in	40 lb	Removal	407J61	50
	Orange	6 in	40 lb	Removal	407J64	50
	Red	6 in	40 lb	Removal	407J59	50
	White	6 in	40 lb	Removal	407J63	50
	Yellow	6 in	40 lb	Removal	407J62	50
	Orange	9 in	40 lb	Removal	407J65	50
	Blue	12 in	40 lb	Removal	407J67	50
	Green	12 in	40 lb	Removal	407J68	50
	Orange	12 in	40 lb	Removal	407J71	50
	Red	12 in	40 lb	Removal	407J66	50
	White	12 in	40 lb	Removal	407J70	50
	Yellow	12 in	40 lb	Removal	407J69	50
	Orange	15 in	40 lb	Removal	407J74	50
	White	15 in	40 lb	Removal	407J73	50
Primary Use(s): General Purpose						
High Density Polyethylene	Blue	5 in	6 lb	Not Required	39R478	100
	Green	5 in	6 lb	Not Required	39R480	100
	Red	5 in	6 lb	Not Required	39R479	100
	Blue	12 in	40 lb	Not Required	2YJT2	50
	Green	12 in	40 lb	Not Required	2YJT3	50
	Red	12 in	40 lb	Not Required	2YJT1	50
	Yellow	12 in	40 lb	Not Required	2YJT4	50
	Blue	18 in	40 lb	Not Required	2YJU7	50
	Green	18 in	40 lb	Not Required	2YJU8	50
	Red	18 in	40 lb	Not Required	2YJU6	50

Primary Material	Primary Color	Useable Length	Breaking Strength	Tool Required	Item No.	Pkg. Qty.
Hot Stamped Fixed Length Seals						
Primary Use(s): Bulk Tanker, Coin Bags, Container Seals, Drums, Hatches, Mail Bags, Rail Cars, Tote Box, Trailer Seals, Truck Seals, Valves						
High Density Polyethylene	Blue	3 in	35 lb	Not Required	52AZ84	50
	Red	3 in	35 lb	Not Required	2YJX7	50
	White	3 in	35 lb	Not Required	52AZ83	50
	Blue	7 1/2 in	60 lb	Not Required	4WKL1	100
	Green	7 1/2 in	60 lb	Not Required	4WKL2	100
	Red	7 1/2 in	60 lb	Not Required	4WKK9	100
	Yellow	7 1/2 in	60 lb	Not Required	4WKL3	100
	Red	9 in	40 lb	Not Required	52AZ92	50
	White	9 in	40 lb	Not Required	52AZ93	50
Polypropylene	Blue	5 in	90 lb	Removal	52CA15	100
	Green	5 in	90 lb	Removal	52CA14	100
	Orange	5 in	90 lb	Removal	52CA16	100
	Red	5 in	90 lb	Removal	52CA13	100
	White	5 in	90 lb	Removal	52CA18	100
	Yellow	5 in	90 lb	Removal	52CA17	100
Hot Stamped Padlock Seals						
Primary Use(s): General Purpose						
Polypropylene	Green	1 5/8 in	8 lb	Not Required	39R481	100
	Red	1 5/8 in	8 lb	Not Required	39R482	100
Laser Marked Adjustable Length Seals						
Primary Use(s): Bulk Tanker, Coin Bags, Container Seals, Drums, Hatches, Mail Bags, Rail Cars, Tote Box, Trailer Seals, Truck Seals, Valves						
Aluminum	Blue	12 in	727 lb	Removal	4WKL5	200
	Blue	12 in	2,400 lb	Removal	4WKL7	200
	Blue	12 in	3,000 lb	Removal	4WKL9	200
	Red	12 in	727 lb	Removal	4WKL4	200
	Red	12 in	2,400 lb	Removal	4WKL6	200
	Red	12 in	3,000 lb	Removal	4WKL8	200
Polypropylene	Blue	7 in	112 lb	Removal	52CA06	100
	Green	7 in	112 lb	Removal	52CA07	100
	Red	7 in	112 lb	Removal	52CA05	100
	Blue	11 in	112 lb	Removal	52CA03	100
	Green	11 in	112 lb	Removal	52CA04	100
	Red	11 in	112 lb	Removal	52CA02	100
Primary Use(s): Container Seals, Rail Cars, Truck Seals						
Aluminum	Black	12 in	727 lb	Removal	407J91	200
	Black	12 in	2,400 lb	Removal	407J93	200
	Black	12 in	3,000 lb	Removal	407J95	200
	Green	12 in	727 lb	Removal	407J92	200
	Green	12 in	2,400 lb	Removal	407J94	200
	Green	12 in	3,000 lb	Removal	407J96	200


No. 2YJZ8

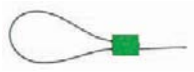

No. 2YJZ7


No. 52AZ89


No. 2YJT4


No. 2YJX7


No. 4WKL1


No. 407J92


No. 39R488

Primary Material	Primary Color	Useable Length	Breaking Strength	Tool Required	Item No.	Pkg. Qty.
Zinc	Blue	12 in	750 lb	Removal	407J77	100
	Blue	12 in	750 lb	Removal	407J82	100
	Blue	12 in	750 lb	Removal	407J87	100
	Orange	12 in	750 lb	Removal	407J80	100
	Orange	12 in	750 lb	Removal	407J85	100
	Orange	12 in	750 lb	Removal	407J90	100
	Red	12 in	750 lb	Removal	407J78	100
	Red	12 in	750 lb	Removal	407J83	100
	Red	12 in	750 lb	Removal	407J88	100
	White	12 in	750 lb	Removal	407J76	100
	White	12 in	750 lb	Removal	407J81	100
	White	12 in	750 lb	Removal	407J86	100
	Yellow	12 in	750 lb	Removal	407J79	100
	Yellow	12 in	750 lb	Removal	407J84	100
	Yellow	12 in	750 lb	Removal	407J89	100
Laser Marked Bolt Seals						
Primary Use(s): Bulk Tanker, Coin Bags, Container Seals, Drums, Hatches, Mail Bags, Rail Cars, Tote Box, Trailer Seals, Truck Seals, Valves						
ABS	Blue	1 1/4 in	3,000 lb	Removal	39R488	200
	Red	1 1/4 in	3,000 lb	Removal	39R486	200
	Yellow	1 1/4 in	3,000 lb	Removal	39R487	200
	White	3 1/2 in	5,477 lb	Removal	39R485	250
	Yellow	3 1/2 in	5,477 lb	Removal	52AZ95	100
Carbon Steel	Silver	3 in	4,100 lb	Removal	52AZ96	100
Primary Use(s): Container Seals, Rail Cars, Truck Seals						
Steel	White	1 1/4 in	3,000 lb	Removal	407J75	200

Transportation Regulatory Compliance Materials

Item	No. of Plies	With Carbon/ Carbonless	Format	Size	Mfr. Model	Item No.	Pkg. Qty.
Bus							
Bus Drivers Daily Logbook	2	With Carbon	Book	5½ x 8½"	470	52VP42	1
Bus Driver Vehicle Inspection Report	2	Carbonless	Book, 31 Sets	5½ x 8⅛"	1928	52VP12	1
Bus, Cargo Tank, Concrete Vehicle, Motor Coach, Tanker, Tractor, Trailer, Truck, Van							
Annual Vehicle Inspection Form	2	Carbonless	Continuous, w/Decal	9½ x 11"	4024613	52HM40	10
Annual Vehicle Inspection Report/Label	3	With Carbon	Continuous, w/Decal	8½ x 11¾"	471	52VP01	1
Annual Vehicle Inspection Report/Label	3	Carbonless	Continuous, w/Decal	8½ x 11¾"	15048	52VP02	1
FMCSA Periodic Inspection Label	1	Carbonless	Label	5 x 5"	4911	52VR20	10
Medical Examination Certificate	—	No	Preprinted Form	—	47379	52VP84	1
Medical Examination Certificate	—	No	Preprinted Form	—	47377	52VP85	1
Vehicle Inspection Decal	2	Carbonless	Vinyl Label	5 x 4"	1279	52VR12	10
Vehicle Inspection Decal	1	Carbonless	Aluminum Label	6 x 3½"	1340	52VR13	10
Vehicle Inspection Report	2	Carbonless	Snap-Out	8½ x 11¾"	3127	52VR18	10
Vehicle Inspection Report	3	Carbonless	Snap-Out	8½ x 11¾"	3128	52VR19	10
Tractor, Trailer, Truck							
Bilingual Drivers Logbook	2	With Carbon	Book, English/Spanish	5½ x 8½"	8581	52VP46	1
Detail Drivers Daily Logbook	2	Carbonless	Book	8½ x 11"	8545	38D331	1
Detail Drivers Daily Logbook	2	Carbonless	Book, Without Recap	8½ x 11"	8530	38D329	1
Detailed Driver Logbook	2	With Carbon	Book, w/DVIR	8½ x 5½"	8525	38D319	1
Detailed Driver Logbook	2	With Carbon	Book, Simplified Recap	8½ x 5½"	8532	38D323	1
Detailed Drivers Logbook	2	With Carbon	Loose Leaf	8½ x 5 17/32"	8524	52VR22	31
Detailed Vehicle Inspection Report	2	Carbonless	Book, 31 Sets	8½ x 11"	11724	52VP15	1
Driver Logbook	2	With Carbon	Book, Without Recap/DVIR	8½ x 5½"	8533	38D320	1
Drivers Exemption Log	2	With Carbon	Book	8-1/2x 5½"	8529	38D327	1
Drivers Exemption Log	2	Carbonless	Book, Without DVIR	8½ x 5½"	8531	38D332	1
Drivers Logbook	2	Carbonless	Book, Without DVIR	8-1/2x 5½"	8526	38D328	1
Driver Vehicle Inspection Form	2	With Carbon	Book, 31 Sets	5½ x 8½"	685	38D295	1
Driver Vehicle Inspection Form	3	With Carbon	Book, 31 Sets	5½ x 8½"	723	38D296	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½"	1854	38D297	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½"	8253	38D299	1
Driver Vehicle Inspection Form	3	Carbonless	Book, 31 Sheets	5½ x 8½"	1862	38D298	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8⅛"	2048	38D304	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5⅔ x 8½"	2046	38D303	1
Driver Vehicle Inspection Form	3	Carbonless	Book, 31 Sets	5⅔ x 8½"	1999	38D301	1
Simplified Driver Logbook	2	With Carbon	Book, w/DVIR	8½ x 5½"	8527	38D318	1
Simplified Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½"	9528	52VP16	1

J. J. Keller & Associates, Inc.® Since 1953


No. 38D328


No. 38D297

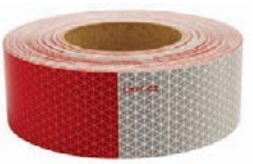


No. 19YK73

Includes	Mfr. Model	Item No.
Accident Report Kit		
Vinyl Pouch, Poly Clipboard, Single-Use 35mm Film Camera, English/Spanish Use Instructions Printed on Camera Jacket, Insulated Wrapper for Camera, Yellow Tire Marker, Pen, Drivers Report at Accident Scene Form, Witness Cards, Accident Notification Card, Exoneration Cards, Post-Accident Testing Regulations Form	5754	19YK73
Federal Motor Carrier Safety Regulations Pocketbook		
Parts 40, 380, 382, 383, 387, 390-397, 399 and Appendix G of the FMCSRs	347	38D333



Railcar
No. 6NGA1



Truck and Trailer
No. 6MFY9



No. 2HGY2



School Bus
No. 6MGA9

Conspicuity Tape

ORALITE®

School Bus—Meet FMVSS 217 and 131, CSA D250 Standards.

Item Trade Name	Color	W	L	Package Type	Thickness	Item No.	Pkg. Qty.
Agriculture							
Reflective Strip, 10 yr	Red	2"	9"	Pack	8 mil	**4LGL2**	25
Reflective Strip, 5 yr	Yellow	2"	9"	Pack	8 mil	**4LGL3**	25
Reflective Tape	White	2"	4"	Poly Bag	8 mil	**45TT02**	1
Reflective Tape, 5 yr V92 Daybright	Yellow	2"	25 ft.	Roll	8 mil	**3ZED8**	1
	Yellow	1"	25 ft.	Roll	8 mil	**3ZED4**	1
Agriculture, Construction							
Reflective Tape, 5 yr V92 Daybright®	Yellow	2"	150 ft.	Roll	8 mil	**6MGA8**	1
	Yellow	3"	25 ft.	Roll	8 mil	**3ZEE3**	1
Emergency Vehicle							
Reflective Tape, 10 yr V82 OEM Grade	White	2"	150 ft.	Roll	8 Mil	**6NGC6**	1
Reflective Tape, 3 yr Emergency Vehicle	Fluorescent Lime	6"	150 ft.	Roll	20 Mil	**6MGC1**	1
Reflective Tape, 5 yr V92 Daybright	Blue	1"	150 ft.	Roll	8 mil	**4LGL4**	1
	Green	1"	150 ft.	Roll	8 mil	**4LGL7**	1
	Red	1"	150 ft.	Roll	8 mil	**4LGL8**	1
	White	1"	150 ft.	Roll	8 mil	**4LGL9**	1
	Red	2"	150 ft.	Roll	8 Mil	**6NGC8**	1
	White	2"	150 ft.	Roll	8 Mil	**6NGC9**	1
	Red	6"	50 ft.	Roll	8 Mil	**6NFZ8**	1
Rail							
Reflective Tape	School Bus Yellow	4"	18"	Poly Bag	8 mil	**45TT09**	1
Railcar							
Reflective Tape, 10 yr R99	White	4"	150 ft.	Roll	8 Mil	**6NGA0**	1
Reflective Tape, 10 yr R99, 9" Kiss-Cut	Yellow	4"	150 ft.	Kiss-Cut Roll	8 Mil	**6NGA1**	1
School Bus							
Reflective Tape, 10 yr V82 OEM Grade	School Bus Yellow	2"	150 ft.	Roll	8 Mil	**6MGA9**	1
Truck and Trailer							
Reflective Decal, 5 yr V92 Daybright®	Red/White/Blue	3¾"	6½"	Decal	8 mil	**2HGY2**	1
Reflective Sticker, 5 yr V92 Daybright	11" Red/7" White	2"	25 ft.	Sticker	8 mil	**3ZEA6**	1
	11" Red/7" White	3"	25 ft.	Sticker	8 mil	**3ZEC1**	1
	White	2"	150 ft.	Sticker	8 mil	**3ZEC3**	1
	White	3"	150 ft.	Sticker	8 mil	**3ZEC7**	1
	White	3"	25 ft.	Sticker	8 mil	**3ZEC9**	1
Reflective Tape	Red/White	2"	18"	Poly Bag	8 mil	**45TT03**	1
	Red/White	2"	12"	Poly Bag	8 mil	**45TT06**	1
Reflective Tape V92 Daybright	Red/White	2"	30 ft.	Roll	8 mil	**53TX85**	1
Reflective Tape, 10 yr V82	11" Red/7" White	2"	150 ft.	Kiss-Cut Roll	8 Mil	**6MFZ7**	1
Reflective Tape, 10 yr V82 OEM Grade	6" Red/6" White	2"	150 ft.	Roll	8 Mil	**6MFZ2**	1
	11" Red/7" White	1"	150 ft.	Roll	8 Mil	**6MFZ5**	1
	11" White/7" Red	2"	150 ft.	Roll	8 Mil	**6MFZ6**	1
	11" Red/7" White	3"	150 ft.	Roll	8 Mil	**6MFZ8**	1
Reflective Tape, 3 yr V42 Retro-Fit	11" White/7" Red	2"	150 ft.	Roll	7 Mil	**6MFZ1**	1
Reflective Tape, 5 yr Daybright	White	2"	12"	Flat Packs	8 mil	**2HGY1**	25
	11" Red/7" White	2"	18"	Roll	8 mil	**2HGX9**	25
Reflective Tape, 5 yr V52 Diamond Plate	11" Red/7" White	3"	25 ft.	Roll	8 mil	**3XMA9**	1
	11" Red/7" White	3"	150 ft.	Roll	8 mil	**3XMA7**	1
Reflective Tape, 5 yr V92 Daybright	11" Red/7" White	2"	150 ft.	Roll	8 mil	**2HGX8**	1
	6" Red/6" White	2"	150 ft.	Roll	8 Mil	**6MFY9**	1
Reflective Tape, 5 yr V92 Daybright®	White	2"	150 ft.	Kiss-Cut Roll	8 Mil	**6MGA1**	1
	6" Red/6" White	2"	150 ft.	Kiss-Cut Roll	8 Mil	**6MFZ0**	1
	11" Red/7" White	2"	150 ft.	Kiss-Cut Roll	8 Mil	**6NGD0**	1



Emergency Vehicle No. 4TDX4



Railcar No. 4TDU8



School Bus No. 4TDV8



Truck and Trailer No. 5ZG04

Conspicuity Tape

3M

Emergency Vehicle—Meet MFPA 1901 Standards.

Railcar—Meet FRA 224 Standards for railcar and locomotives.

School Bus—Meet FMVSS and CSA D250 Standards.

Truck and Trailer—Meet DOT and NHTSA Standards.

Item Description	Color	W	L	Package Type	Thickness	Item No.	Pkg. Qty.
Emergency Vehicle							
Premium Grade Reflective Tape 983 Diamond Grade™	Fluorescent Yellow/Green	6"	150 ft.	Roll	14 to 18 mil	**4TDX4**	1
Reflective Tape	Red	2"	30 ft.	Roll	14 mil	**53CU24**	1
	Fluorescent Yellow/Green	2"	1 ft.	Pack	14 mil	**53CU30**	10
Multi-Purpose							
Reflective Tape	Orange	2"	1 ft.	Pack	14 mil	**53CU31**	10
Reflective Tape Strips	Yellow	1"	6"	Poly Bag	6.8 mil	**45J837**	10
Rail							
Flexible Grade Reflective Tape Flexible	Yellow	4"	150 ft.	Roll	10 to 14 mil	**4TDU7**	1
Railcar							
Flexible Grade Reflective Tape 973 Flexible Diamond Grade™	Yellow	4"	150 ft.	Roll	10 to 14 mil	**4TDU8**	1
Premium Grade Reflective Tape 983 Diamond Grade™	Yellow	4"	150 ft.	Roll	14 to 18 mil	**4TDT9**	1
Premium Grade Reflective Tape 983 Diamond Grade™, 18" Kiss-Cut	Yellow	4"	150 ft.	Kiss-Cut Roll	14 to 18 mil	**4TDU1**	1
School Bus							
Flexible Grade Reflective Tape Flexible	School Bus Yellow	2"	150 ft.	Roll	10 to 14 mil	**4TDW4**	1
Premium Grade Reflective Tape 983 Diamond Grade™	Fluorescent Yellow	1"	150 ft.	Roll	14 to 18 mil	**4TDV4**	1
	School Bus Yellow	1"	150 ft.	Roll	14 to 18 mil	**4TDV9**	1
	Fluorescent Yellow	2"	150 ft.	Roll	14 to 18 mil	**4TDV5**	1
	School Bus Yellow	2"	150 ft.	Roll	14 to 18 mil	**4TDV8**	1
Reflective Tape	Yellow	2"	30 ft.	Roll	14 mil	**53CU23**	1
Truck and Trailer							
Premium Grade Reflective Strip 983 Diamond Grade™	6" Red/6" White	2"	12"	Pack	—	**5ZG04**	100
Premium Grade Reflective Tape 983 Diamond Grade™	6" Red/6" White	2"	150 ft.	Roll	—	**5ZG03**	1
	11" Red/7" White	2"	150 ft.	Roll	—	**5ZG02**	1
	11" Red/7" White	3"	150 ft.	Roll	14 to 18 mil	**4TDR8**	1
	11" Red/7" White	4"	150 ft.	Roll	14 to 18 mil	**4TDR9**	1
	Red	2"	150 ft.	Roll	14 to 18 mil	**4TDT3**	1
	White	2"	150 ft.	Roll	14 to 18 mil	**4TDR1**	1
	White	3"	150 ft.	Roll	14 to 18 mil	**4TDR4**	1
	White	2"	12"	Roll	14 to 18 mil	**4TDR3**	100
	White	4"	150 ft.	Roll	14 to 18 mil	**4TDR5**	1
Premium Grade Reflective Tape 983 Diamond Grade™, 18" Kiss-Cut	6" Red/6" White	2"	150 ft.	Kiss-Cut Roll	14 to 18 mil	**4TDT2**	1
	White	2"	150 ft.	Roll	14 to 18 mil	**4TDR2**	1
Reflective Tape	White	1"	150 ft.	Roll	—	**38XP14**	1
	Fluorescent Yellow	4"	150 ft.	Roll	—	**38XP26**	1
	Fluorescent Yellow/Green	2"	150 ft.	Roll	—	**38XP27**	1
	Fluorescent Yellow/Green	4"	150 ft.	Roll	—	**38XP28**	1
	Red/White	2"	30 ft.	Roll	14 mil	**53CU13**	1
	Red/White	2"	30 ft.	Roll	14 mil	**53CU18**	1
	Red/White	2"	30 ft.	Roll	14 mil	**53CU19**	1
	Red	4"	150 ft.	Roll	—	**38XP46**	1
	Red	1"	150 ft.	Roll	—	**38XP47**	1
	Red/White	2"	53 ft.	Roll	—	**38XP50**	1
Reflective Tape Flexible Prismatic	White	2"	150 ft.	Roll	—	**38XN58**	1
	White	6"	150 ft.	Roll	—	**38XN62**	1
	Red/White	1"	150 ft.	Roll	—	**38XP38**	1
	Red/White	2"	150 ft.	Roll	—	**38XP32**	1
	Red	2"	150 ft.	Roll	—	**38XP49**	1
	Red	3"	150 ft.	Roll	—	**38XP45**	1
	Yellow	4"	150 ft.	Roll	—	**38XP44**	1
Reflective Tape Strips Flexible Prismatic	Red/White	2"	12"	Poly Bag	15 mil	**45K291**	10

B/A PRODUCTS CO. | HIGHLAND | LiftAll



Tow and Recovery Straps

L	Rated Capacity	End Type	Brand	Item No.
12 ft.	4000 lb.	1¼" Hook Opening	B/A Products Co.	8WP45
15 ft.	3330 lb.	1" Hook Opening	Highland	21T104
16 ft.	4000 lb.	1¼" Hook Opening	B/A Products Co.	9EN04
20 ft.	2700 lb.	Loop Ends	Lift-All	3LJE1
20 ft.	5300 lb.	1-PLY, Lined Eyes	Lift-All	39A399
20 ft.	10,700 lb.	2-PLY, Lined Eyes	Lift-All	39A404
20 ft.	10,700 lb.	2-PLY, Lined Eyes, Special Edge Yarns	Lift-All	39A407
20 ft.	10,700 lb.	Loop Ends	Lift-All	3LJE2
25 ft.	1400 lb.	Loop Ends	Lift-All	3LJE4
25 ft.	27,100 lb.	Loop Ends	Lift-All	3LJE6
30 ft.	1600 lb.	Loop Ends	Lift-All	3LJE3
30 ft.	5300 lb.	1-PLY, Lined Eyes	Lift-All	39A401
30 ft.	5300 lb.	1-PLY, Lined Eyes, Special Edge Yarns	Lift-All	39A403
30 ft.	10,700 lb.	2-PLY, Lined Eyes	Lift-All	39A405
30 ft.	10,700 lb.	2-PLY, Lined Eyes	Lift-All	39A406









Cortina Safety Products Group | VICTOR | OIL-DRI

Roadside Emergency Kits

Includes	Brand	Item No.
Roadside Emergency Kit		
(3) Warning Triangles, 2¾ lbs. 10BC Fire Extinguisher, (3) 30 Min. Lightsticks, and Metal Carry Case with Handle	Cortina	2EHE6
(5) 20 min. Flares, (2) Light Sticks, Flashlight with Batteries, (2) Shop Cloths, Safety Vest, Rain Poncho, Jumper Cable, Combination Tool Set, (2) Emergency Blankets, (4) Hand Warmers, (2) Water Pouches, (2) Candles, (10) Matches, (6) Latex Gloves, (2) First Aid Cream Packets, (6) Alcohol Wipes, (6) Antiseptic Wipes, (4) Insect Sting Wipes, Cold Pack, Large Wound Pack, Resealable Pouch, Carrying Case	Cortina	407K09
(3) 20 min. Flares, Light Stick, Flashlight with Batteries, Shop Cloth, Reflective Triangle, Safety Vest, Rain Poncho, Jumper Cable, Combination Tool Set, Emergency Blanket, (35) Regular Bandages, (10) Alcohol Wipes, (6) Antiseptic Wipes, (4) Insect Sting Wipes, (2) First Aid Cream Packets, Large Wound Pad, Cold Pack, (4) Latex Gloves, Resealable Pouch, Carrying Case	Cortina	407K11
Booster Cable, Flashlight, (2) AA Batteries, Glow Stick, Siphon Pump, (2) Nitrile Gloves, Rain Poncho, Help Sign, First Aid Kit, Carry Bag	Victor	34NL94
Roadside Emergency Kit w/ Warning Triangle		
(1) Metal Box With Handle, (3) Highway Warning Triangles, (1) 2¾ lb. Refillable Fire Extinguisher, (3) Flares	Cortina	3JPD6
Booster Cable, 12 oz. Tire Sealant, Flashlight, (2) AA Batteries, Slip Joint Pliers, 2-In-1 Screwdriver, (10) Cable Ties, Electrical Tape, Rain Poncho, Info Guides, First Aid Kit, Carry Bag with Integrated Warning Triangle	Victor	34NL95
Booster Cable, 12 oz. Tire Sealant, Tire Inflator with Instruction Manual, Flashlight, (2) AA Batteries, (25) Cable Ties, Help Sign, (2) Knit Gloves, Elastic Tie Down, Blanket, 2-In-1 Screwdriver, Rain Poncho, Info Guides, First Aid Kit, Carry Bag with Integrated Warning Triangle	Victor	34NL96
Transportation Spill Kit		
10 Pads, 3 Socks, 1 Disposable Bag, 1 Tie, 10 Wipes	Oil-Dri	4WXR7



















EATON BUSSMANN SERIES

Automotive Fuses and Circuit Breakers

ATM FUSES—0.64"L X 0.43"W
- Fast-acting
- 1kA IR

Universal color coding. Enclosed element protects against shocks, sparks, and corrosion. For late-model vehicles. Illuminated versions glow when fuse is opened.

FMX AND FMX LOW-PROFILE—1"L X 0.47"W

Meet OEM demand for smaller components, and offer high-amp protection in compact packages.

MAX FUSES—1.7"L X 1.2"W

Used to protect circuits in wiring harness. For domestic and imported vehicles.

AGA FUSES—¼" DIA. X ⅝"W
- Fast-acting

Size rejects insertion of other fuse types.

ATC FUSES—¾"L X ¾"W
- Fast-acting
- 1kA IR

Feature enclosed element. Illuminated versions glow when fuse is opened.

UCB AND CBF SERIES CIRCUIT BREAKERS

UCB series replace ATC fuses.

Color Code	Fuse Amps	Mfr. Model	Item No.	Pkg. Qty.
ATM Fuses (32V DC)				
Gray	2	ATM-2	6AYC7	1
Violet	3	ATM-3	1BZ48	1
Pink	4	ATM-4	1BZ50	1
Tan	5	ATM-5	1BZ51	1
Brown	7½	ATM-7-1/2	1BZ52	1
Red	10	ATM-10	1BZ42	1
Blue	15	ATM-15	1BZ43	1
Yellow	20	ATM-20	1BZ44	1
Clear	25	ATM-25	1BZ45	1
Green	30	ATM-30	1BZ49	1
ATM-ID Illuminating Fuses (32V DC)				
Violet	3	BP/ATM-3ID	6AYL3	2
Tan	5	BP/ATM-5ID	52CN11	2
Red	10	BP/ATM-10ID	6AYK9	2
Blue	15	BP/ATM-15ID	6AYL0	2
Yellow	20	BP/ATM-20ID	6AYL1	2
Clear	25	BP/ATM-25ID	6AYL2	2
Green	30	BP/ATM-30ID	6AYL4	2
ATM-LP Low-Profile Fuses (32V DC)				
Tan	5	ATM -5LP	6AYN0	5
Brown	7½	ATM-7-1/2LP	6AYN2	5
Red	10	ATM-10LP	6AYN1	5
Blue	15	ATM-15LP	6AYN3	5
Yellow	20	ATM-20LP	6AYN4	5
Clear	25	ATM-25LP	6AYN5	5
Green	30	ATM-30LP	6AYN6	5
FMX Fuses (12V DC)				
Blue	20	FMX-20	6AYF0	1
Pink	30	FMX-30	6AYF1	1
Green	40	FMX-40	6AYF2	1
Red	50	FMX-50	6AYF3	1
Yellow	60	FMX-60	6AYF4	1
FMX-LP Low-Profile Fuses (32V DC)				
Blue	20	FMX-20LP	6AYH3	1
Pink	30	FMX-30LP	6AYH4	1
Green	40	FMX-40LP	6AYH5	1
Red	50	FMX-50LP	6AYH6	1
Yellow	60	FMX-60LP	6AYH7	1
MAX Fuses (32V DC)				
Yellow	20	MAX-20	6AYD8	1
Green	30	MAX-30	6AYD9	1
Orange	40	MAX-40	6AYE0	1
Red	50	MAX-50	6AYE1	1
Blue	60	MAX-60	6AYE2	1
Tan	70	MAX-70	6AYE3	1
Clear	80	MAX-80	6AYE4	1
MAX-ID Illuminating Fuses (32V DC)				
Yellow	20	BP/MAX-20ID	52CN12	1
Green	30	BP/MAX-30ID	52CN13	1

Color Code	Fuse Amps	Mfr. Model	Item No.	Pkg. Qty.
Orange	40	BP/MAX-40ID	49ZU59	1
Red	50	BP/MAX-50ID	52CN14	1
Blue	60	BP/MAX-60ID	52CN15	1
AGA Fuses (2 to 5A 125VAC, 7½ to 30A 32VAC)				
Clear	2	AGA-2	6AYC1	5
Clear	3	AGA-3	6AYC3	5
Clear	5	AGA-5	6AYC5	5
Clear	7½	AGA-7-1/2	6AYC6	5
Clear	15	AGA-15	6AYC0	5
Clear	20	AGA-20	6AYC2	5
Clear	30	AGA-30	6AYC4	5
ATC Fuses (32V DC)				
Black	1	ATC-1	6AYD0	1
Gray	2	ATC-2	6AYD1	1
Violet	3	ATC-3	1BZ37	1
Pink	4	ATC-4	1BZ39	1
Tan	5	ATC-5	1BZ40	1
Brown	7½	ATC-7-1/2	1BZ41	1
Red	10	ATC-10	1BZ33	1
Blue	15	ATC-15	1BZ34	1
Yellow	20	ATC-20	1BZ35	1
Clear	25	ATC-25	1BZ36	1
Green	30	ATC-30	1BZ38	1
Amber	40	ATC-40	6AYA9	1
ATC-ID Illuminating Fuses (32V DC)				
Violet	3	BP/ATC-3ID	6AYG9	2
Tan	5	BP/ATC-5ID	6AYH1	2
Brown	7½	BP/ATC-7-1/2ID	6AYH2	2
Red	10	BP/ATC-10ID	6AYG5	2
Blue	15	BP/ATC-15ID	6AYG6	2
Yellow	20	BP/ATC-20ID	6AYG7	2
Clear	25	BP/ATC-25ID	6AYG8	2
Green	30	BP/ATC-30ID	6AYH0	2
UCB Circuit Breakers (12VDC)				
Plain/ Natural	6	UCB-6	6KXT8	1
Red	10	UCB-10	6AYJ4	1
Blue	15	UCB-15	6AYJ5	1
Yellow	20	UCB-20	6AYJ6	1
Plain	25	UCB-25	6AYJ7	1
Green	30	UCB-30	6AYJ8	1
AMG Fuses (32V DC)				
Black	100	AMG-100	6AYK4	1
Black	125	AMG-125	6AYK5	1
Black	150	AMG-150	6AYK6	1
Black	175	AMG-175	6AYK7	1
Black	200	AMG-200	6AYK8	1
AMI Fuses (32V DC)				
Black	50	AMI-50	6AYK0	1
Black	80	AMI-80	6AYK1	1

FEDERAL SIGNAL · ECCO · GA GRAINGER APPROVED


No. 35ZX61


No. 18C528


No. 21DH94



No. 13A522


No. 3ULJ6


No. 2CXB5

Back-Up Alarms

VELVAC · WOLO · Buyers · Grote

Standard—Compact alarms provide a cost-effective warning solution with exceptional durability and protection against moisture, dust, and vibration.

Self-Grounding—Eliminates potential corrosion points. Epoxy sealed from moisture, dust, and vibration.

Self-Adjusting—Constantly measures ambient noise and adjusts sound level. Eliminates the need for constant manual adjustment and helps prevent intentional alarm disconnection.

Sound Level	Voltage	Housing Material	L	W	H	Brand	Mfr. Model	Item No.
Standard								
Universal Mount								
87dB	12 to 24VDC	Glass Filled Nylon	4 1/8"	1 1/4"	2 1/2"	Federal Signal	210238-W	**35ZX61**
90dB	—	Plastic	—	—	—	Ecco	MS90	**5MGH9**
97dB	12 to 24VDC	Glass Filled Nylon	4 1/8"	1 1/4	2 1/2"	Federal Signal	210239-S	**39F744**
97dB	12 to 24VDC	Fiberglass Reinforced Nylon	1 1/2"	4"	2 1/2"	Ecco	520	**3WRU1**
97dB	12 to 24VDC	Glass Filled Nylon	4 9/64"	1 1/4"	2 1/2"	Federal Signal	210239-W	**35ZX62**
97dB	12 to 48VDC	ABS Plastic	4 1/8"	1 5/8"	2 5/8"	GA	18C528	**18C528**
97dB	12 to 48VDC	ABS Plastic	4 1/16"	1 5/8"	3"	GA	2ERT2	**2ERT2**
97dB	12VDC	Glass/Nylon	4"	1 39/64"	2 51/64"	Ecco	510	**49KD24**
102dB	12 to 24VDC	Glass Filled Nylon	4 1/8"	1 1/4	2 1/2"	Federal Signal	210240-S	**39F745**
102dB	12 to 24VDC	Glass Filled Nylon	4 3/32"	1 1/4"	2 1/2"	Federal Signal	210240-W	**35ZX63**
107dB	12 to 24VDC	Fiberglass Reinforced Nylon	1 1/2"	4"	2 1/2"	Ecco	575	**3WRU2**
107dB	12 to 36VDC	Steel	2 3/4"	5"	3"	Ecco	630N	**3WRU3**
Center Mount								
87dB	12 to 24VDC	Glass/Nylon	3 1/2"	1 1/4"	2 3/4"	Velvac	697287	**21DH93**
97dB	12 to 24VDC	Glass/Nylon	3 1/2"	1 1/4"	2 3/4"	Velvac	697297	**21DH94**
107dB	12 to 24VDC	Glass/Nylon	3 7/8"	1 1/2"	2 7/16"	Velvac	697107	**21DH91**
112dB	12 to 24VDC	Glass/Nylon	5 3/32"	2 15/16"	3 53/64"	Velvac	697112	**21DH92**
Bracket Mount								
97dB	12 to 24VDC	Plastic	2 1/2"	1 3/4"	2 1/2"	Wolo	BA-97	**13A522**
112dB	12 to 48VDC	Plastic	5"	2 3/4"	3 1/2"	Wolo	BA-550	**13A521**
Self-Grounding								
87dB	12 to 24VDC	Epoxy	4"	—	—	Federal Signal	210238-S	**35ZX60**
97dB	12 to 24VDC	Plastic	4"	1 5/8"	2 5/8"	Buyers Products	BA0972	**3ULJ6**
97dB	12 to 24VDC	Nylon	3 15/16"	1 15/16"	3 5/16"	Grote	73040	**2CXB3**
107dB	12 to 24VDC	Nylon	3 15/16"	1 15/16"	3 5/16"	Grote	73090	**2CXB5**
Self-Adjusting								
82 to 102dB	12 to 24VDC	Glass Filled Nylon	1 5/8"	4"	2 1/2"	Smart	SA950	**3WRT4**
82 to 107dB	12 to 24VDC	Steel	5"	2 3/4"	2 7/8"	Smart	SA901N	**3WRT5**


No. 3FHX7


No. 3FHY6




No. 3FHU7


No. 3FHW7


No. 3FHW8

Electric Horns

WOLO · Grote

dB	Voltage	Mounting	Material	Dia. (in.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Electric Horns										
114.4 @ 1 meter	12-60 DC	Bracket Mount	Plastic	5	4 3/4	4 7/8	4 3/4	Wolo	EE100	**3FHX7**
115 @ 1 meter	12 DC	Bracket Mount	Steel	3 3/4	-	2 1/4	-	Wolo	357-12	**3FHY6**
115 @ 1 meter	24 DC	Bracket Mount	Steel	3 3/4	-	2 1/4	-	Wolo	357-24	**3FHY7**
116 @ 1 meter	12 DC	Under Hood	Steel and Plastic	3 1/2	3 1/8	3 3/4	3 1/2	Wolo	385-2T	**3FHU7**
125	12 DC	—	Steel	—	—	3	3 5/8	Grote	72100-5	**2CXB1**
135	12 DC	—	Steel	—	—	—	—	Grote	72010-5	**2VPN3**
125	12 DC	—	Steel	—	—	—	—	Grote	72110-5	**2VPN4**
115	24/48VDC	Bolt On	Metal	5	7	5	2 1/2	Wolo	372LA-24/48	**33HE41**
123.5 @ 1 meter	12VDC	Single Stud	ABS Plastic	—	5 3/4	3 1/2	4 31/64	Wolo	719	**33HE40**
115	24/48VDC	Bolt On	Metal	5	7	5	2 1/2	Wolo	372LB-24/48	**33HE43**
115	24/48VDC	Bolt On	Metal	5	7	5	2 1/2	Wolo	372LC-24/48	**33HE44**
115 @ 1 meter	12 DC	Under Hood	Steel	3 3/4	-	2	-	Wolo	305-2T	**3FHU3**
116 @ 1 meter	12 DC	Under Hood	Steel and Plastic	—	3 1/8	3 3/4	3 1/2	Wolo	380-2T	**3FHU6**
115 @ 1 meter	12 DC	Bracket Mount	Steel	5	2 1/2	4 3/4	6 1/8	Wolo	370LA-12L2	**3FHX8**
115 @ 1 meter	36 DC	Bracket Mount	Steel	3 3/4	-	2 1/4	-	Wolo	357-36	**3FHY8**
115 @ 1 meter	36-48 DC	Bracket Mount	Steel	5	2 1/2	4 3/4	6 1/8	Wolo	370LC-36/48L2WV	**3FHY3**
Accessories										
Horn Button Switch								Wolo	HS-1	**3FHW7**
Horn Button Switch And Wire								Wolo	HS-2	**3FHW8**

Air Horns

- 12VDC

FIAMM · WOLO


No. 53CU85


No. 53CU66


No. 53CU68


No. 3FHV1


No. 3FHV2


No. 3FHV9


No. 3FHV5

Item	dB	Material	Finish	Mounting	Includes	L (in.)	Item No.
Fiamm							
Dual Trumpet Horn	120 @ 1 meter	Stainless Steel	Unfinished	Universal Mount	—	18	**53CU85**
Dual Trumpet Horn Kit	135 @ 1 meter	Plastic	Unfinished	Universal Mount	Compressor, Vinyl Tubing	7 1/2	**53CU66**
Dual Trumpet Horn Kit	136 @ 1 meter	Aluminum	Unfinished	Universal Mount	Compressor, Vinyl Tubing	7 1/2	**53CU67**
Dual Trumpet Horn Kit	137 @ 1 meter	Plastic	Chrome	Universal Mount	Compressor, Vinyl Tubing	7 1/2	**53CU68**
Portable Horn	125 @ 1 meter	Aluminum	Unfinished	Universal Mount	—	3	**53CU64**
Wolo							
Dual Trumpet Big Rig Sound Horn	118 @ 1 meter	Plastic	Red Plastic / Metal	Under-Hood	Chrome-Plated Direct Drive Compressor, Relay, Hose, and Mounting Hardware	12 1/4	**3FHV1**
Dual Trumpet Horn	116 @ 1 meter	Stainless Steel	Polished Stainless Steel	Exterior Mount	Gasket and Stainless Steel Bolts	18 1/2	**3FHW5**
Dual Trumpet Horn	118 @ 1 meter	Plastic	Red Plastic / Metal	Under-Hood	Chrome-Plated Direct Drive Compressor, Relay, Hose, and Mounting Hardware	8 1/2	**3FHU9**
Dual Trumpet Horn	120 @ 1 meter	Plastic and Steel	Chrome Metal	Exterior Mount or Under Hood	Heavy-Duty Direct Drive Compressor, Relay, Hose, and Mounting Hardware	13 3/8	**3FHV2**
Extreme Duty Dual Trumpet Horn	125 @ 1 meter	Steel	Chrome Plated Trumpets and Black Base	Exterior Mount or Under Hood	Inlet Hose with Brass Fittings, Gasket and Stainless Steel Mounting Hardware	14 1/2	**3FHV5**
High Tone Horn	130 @ 1 meter	Brass	Chrome	Exterior Mount or Under Hood	Hardware, Fittings and Bracket	24 1/2	**3FHV8**
Low Tone and High Tone Trumpet Set	116 @ 1 meter	Stainless Steel	Polished Stainless Steel	Exterior Mount	Gasket and Stainless Steel Bolts	18 1/2	**3FHW4**
Marine Air Horn	127 @ 1 meter	Bright Chrome Plated Finish	Chrome Plated	Bracket Mount	Compressor, Hose, 30A Relay, Mounting Hardware	9 1/2	**33HE56**
Three Trumpet Train Horn	152 @ 1 meter	Brass	Chrome	Exterior Mount	10-Ft. of 1/4" O.D. High-Pressure Hose, and Solenoid	16 1/2	**3FHV9**

ECCO · GOLIGHT · Grote · J.W. SPEAKER · Maxxima · Railhead

Rectangular Work Lights


No. 49KD93


No. 36E686


No. 2VPG6


No. 45RJ27


No. 36XD87


No. 20HJ60

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24VDC	0.4A	Pigtail	600 lm	3¾"	2"	Clear	Polycarbonate	Aluminum	EW2019	**49KD88**
	12 to 24VDC	1.3A	Pigtail	1000 lm	4⅜"	2⅜"	Clear	Polycarbonate	Aluminum	EW2411	**49KD93**
	12 to 24VDC	2.7A	Pigtail	3000 lm	6⅝"	6⅜"	Clear	Polycarbonate	Aluminum	EW2301	**49KD90**
	12 to 24VDC	3.0A	Pigtail	2900 lm	7"	6"	Clear	Polycarbonate	Aluminum	EW2501	**406C82**
	12 to 24VDC	2.2A	Pigtail	2400 lm	7"	3"	Clear	Polycarbonate	Aluminum	EW2321	**406C73**
Spot Light	12 to 24VDC	2.7A	Pigtail	3100 lm	6⅝"	6⅜"	Clear	Polycarbonate	Aluminum	EW2300	**49KD89**
	12 to 24VDC	2.2A	Pigtail	2400 lm	7"	3"	Clear	Polycarbonate	Aluminum	EW2320	**406C72**
Golight											
Flood Light	9 to 32VDC	5.3	Pigtail	6000 lm	6"	3¾"	Clear	Polycarbonate	Aluminum	4421	**36E686**
Grote											
Flood Light	12VDC	1.6A	Hardwired	700 lm	5¾"	3⅜"	Clear	Polycarbonate	Aluminum	63611	**2VPG6**
Spot Light	12 to 24VDC	2.1A@24VDC	Hardwired	2100 lm	9"	6"	Clear	Polycarbonate	Aluminum	63571	**2VPG2**
	12VDC	1.6A	Hardwired	700 lm	5¾"	3⅜"	Clear	Polycarbonate	Aluminum	63601	**2VPG5**
Trapezoid Light	12 to 24VDC	2.1A@24VDC	Hardwired	2050 lm	9"	6"	Clear	Polycarbonate	Aluminum	63591	**2VPG4**
	12VDC	1.6A	Hardwired	700 lm	5¾"	3⅜"	Clear	Polycarbonate	Aluminum	63621	**2VPG7**
Work Light	12 to 30	15 Watts	Hardwired	1200 lm	3¾"	2¾"	—	—	—	BZ551-5	**412A34**
J.W. Speaker											
Flood Light	12 to 24VDC	1A	DT04-2P Connector	675 lm	6⅛"	1½"	Clear	Polycarbonate	Polycarbonate	783	**45RJ27**
	12 to 24VDC	1A	DT04-2P Connector	675 lm	6⅛"	1½"	Clear	Polycarbonate	Polycarbonate	783	**45RJ28**
Work Light	12/24VDC	9A	Pigtail	9000 lm	6¼"	3¾"	Clear	Glass	Aluminum	526	**45RJ15**
Maxxima											
Flood Light	12 to 36VDC	.8A@36VDC	Pigtail	2150 lm	6¼"	3⅞"	Clear	Polycarbonate	Aluminum	MWL-57SP	**36XD87**
	12 to 24VDC	280mA@24VDC	Pigtail	675 lm	5⅞"	3¾"	Clear	Polycarbonate	Polycarbonate	MWL-26-A	**34TG92**
	12 to 24VDC	.9A@24VDC	Pigtail	1200 lm	6"	5⅞"	Clear	Polycarbonate	Aluminum	MWL-29	**36XD76**
	12 to 36VDC	.5A@36VDC	Pigtail	1550 lm	6¼"	3⅞"	Clear	Polycarbonate	Aluminum	MWL-50SP	**36XD86**
	12 to 24VDC	.5A@24VDC	Pigtail	400 lm	6"	3½"	Clear	Polycarbonate	Aluminum	MWL-04	**8PMH4**
Work Light	12 to 24VDC	0.8A to 0.5A	Hardwired	2100 lm	6"	1½"	Clear	Polycarbonate	Aluminum	MWL-42	**440A17**
	12 to 36VDC	2.8A	Hardwired	3000 lm	7"	2¼"	Clear	Polycarbonate	Aluminum	MWL-58	**446U98**
	12 to 24VDC	0.8A to 0.5A	Hardwired	1000 lm	6"	1½"	Clear	Polycarbonate	Polycarbonate	MWL-39	**440A20**
	12 to 36VDC	4.5A @12V / 1.6A@36V	Hardwired	5000 lm	10 39/64"	2 13/32"	Clear	Polycarbonate	Aluminum	MWL-61	**494P45**
Railhead Gear											
Spot Light	9 to 64VDC	1.75A@12VDC	Hardwired	2900 lm	6¾"	2¾"	Clear	Polycarbonate	Aluminum	KE-HDWL-30	**20HJ60**
	9 to 64VDC	3.2A	Hardwired	5100 lm	8½"	2½"	Clear	Polycarbonate	Aluminum	KE-HDWL-60	**20HJ61**
Halogen											
Grote											
Flood Light	12VDC	4.7A	Hardwired	—	6⅞"	5"	Clear	Glass	Nylon	63151-5	**2CWP9**

ECCO · Maxxima

Square Work Lights


No. 49KD57


No. 406C05


No. 36XD77

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24VDC	0.7A	Lighter Plug	750 lm	4⅜"	4⅜"	Clear	Polycarbonate	Aluminum	E92007-MG	**49KD57**
	12 to 24VDC	1.2A	Pigtail	775 lm	3 5/16"	3 5/16"	Clear	Polycarbonate	Aluminum	EW2471	**49KD96**
	12 to 24VDC	1.3A	Pigtail	1200 lm	4⅜"	4⅜"	Clear	Polycarbonate	Aluminum	E92006	**406C04**
	12 to 24VDC	0.7A	Pigtail	700 lm	4⅜"	4⅜"	Clear	Polycarbonate	Aluminum	E92007	**406C05**
	12 to 24VDC	2A	Pigtail	2400 lm	4⅜"	4⅜"	Clear	Polycarbonate	Aluminum	EW2421	**406C74**
Work Light	12 to 24VDC	3.2A	Lighter Plug	600 lm	4¼"	4⅞"	Clear	Acrylic	Aluminum	EW2461-NA	**406C81**
Maxxima											
Flood Light	12 to 24VDC	.9A@24VDC	Pigtail	1200 lm	4¾"	4¾"	Clear	Polycarbonate	Aluminum	MWL-30	**36XD77**
	12 to 24VDC	.7A@24VDC	Pigtail	1000 lm	3¼"	3¼"	Clear	Polycarbonate	Aluminum	MWL-20	**39M957**
	12 to 24VDC	1.2A@24VDC	Pigtail	2100 lm	4¾"	4¼"	Clear	Polycarbonate	Aluminum	MWL-43	**440A18**
Work Light	12 to 24VDC	0.8A to 0.5A	Hardwired	1000 lm	4¾"	1½"	Clear	Polycarbonate	Polycarbonate	MWL-40	**440A22**
	12 to 24VDC	1A to 0.5A	Hardwired	675 lm	4¾"	1½"	Clear	Polycarbonate	Polycarbonate	MWL-27-A	**440A23**

Grote · J.W. SPEAKER · Maxxima

LED Light Bars


No. 411Z70


No. 45RJ03


No. 55HF17

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Grote											
Work Light Bar	12/24VDC	10.5A at 12V, 5.25A at 24V	Pigtail	8124 lm	34"	3½"	—	Polycarbonate	Aluminum	64J31	**411Z70**
	12/24	7A at 12V, 3A at 24V	Pigtail	5416 lm	24"	3½"	—	—	—	64J21	**411Z69**
J.W. Speaker											
Light Bar	—	—	Pigtail	—	22"	2¾"	—	—	—	9049	**45RJ03**
Maxxima											
Work Light	12.8VDC	3.4A	2-Pin Connector	3000 lm	30"	2"	Clear	Polycarbonate	Aluminum	MTBL-10-A	**55HF17**

ECCO
Grote
The first name in vehicle safety systems.
Maxxima


No. 49KD97


No. 412A29


No. 13W971


No. 13W973


No. 12D305


No. 54DE27


No. 2CWU2

Round Work Lights

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Diameter	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED										
Ecco										
Flood Light	12 to 24VDC	0.9A	Pigtail	675 lm	5"	Clear	Polycarbonate	Aluminum	E92013	**49KD58**
	12 to 24VDC	1.2A	Pigtail	800 lm	3 5/16"	Clear	Polycarbonate	Aluminum	EW2481	**49KD97**
	12 to 24VDC	0.6A	Pigtail	700 lm	—	Clear	Polycarbonate	Aluminum	E92004	**406C02**
	12 to 80VDC	3.1A	Pigtail	1000 lm	—	Clear	Polycarbonate	Aluminum	EW2110	**405Z31**
	12 to 24VDC	1.2A	Pigtail	950 lm	—	Clear	Polycarbonate	Aluminum	E92005	**406C03**
	12 to 24VDC	3.1A	Pigtail	2075 lm	—	Clear	Polycarbonate	Aluminum	EW2431	**406C75**
Grote										
Flood Light	12VDC	.6A	Hardwired	400 lm	5"	Clear	Polycarbonate	Rubber	63551	**2VPF9**
Spot Light	12 to 36VDC	14 W	Hardwired	1240 lm	3¾"	Clear	Polycarbonate	Aluminum	BZ111-5	**412A29**
TractorPlus™ Light	12 to 24VDC	.7A@24VDC	Spade/Screw Terminals	800 lm	4⅜"	Clear	Polycarbonate	Aluminum	63821-5	**13W971**
	12 to 24VDC	.7A@24VDC	Pigtail	800 lm	4⅜"	Clear	Polycarbonate	Aluminum	63861-5	**13W973**
Wide Flood Light	12 to 24VDC	.7A@24VDC	Pigtail	800 lm	4⅜"	Clear	Polycarbonate	Aluminum	63871-5	**13W974**
Work Light	10 to 48	17.5 Watts	Pigtail	1790 lm	3¼"	—	—	—	64G11	**411Z65**
	—	—	—	800 lm	4 25/64"	—	—	—	63831-5	**13W972**
	10 to 48	17.5 Watts	Pigtail	1790 lm	3¾"	—	—	—	64E01	**411Z58**
Maxxima										
Flood Light	12 to 24VDC	630mA@24VDC	Pigtail	750 lm	4"	Clear	Polycarbonate	Rubber	MWL-11HL	**12D305**
	12 to 24VDC	.9A@24VDC	Pigtail	1200 lm	4¾"	Clear	Polycarbonate	Aluminum	MWL-28	**36XD75**
	—	—	—	—	—	—	—	—	MWL-12-KIT	**22N693**
Work Light	12 to 24VDC	0.4A to 0.3A	Hardwired	550 lm	4⅞"	Clear	Polycarbonate	Polycarbonate	MWL-19-A	**440A15**
	12VDC	630mA	Pigtail	300 lm	2"	Clear	Polycarbonate	Aluminum	MWL-10SP	**12D302**
	12VDC	630mA	Pigtail	300 lm	2¾"	Clear	Polycarbonate	Aluminum	MWL-10SP-SM	**12D304**
	12VDC	1.24A	Hardwired	550 lm	5"	Clear	Polycarbonate	Aluminum	MWL-01LS	**30PE41**
Work Light w/ On/Off Switch	12 to 36VDC	1.2A@24VDC	DT04-2P Connector	2100 lm	5¼"	Clear	Polycarbonate	Aluminum	MWL-36	**54DE27**
Incandescent										
Grote										
Flood Light	12VDC	2.7A	Hardwired	—	5"	Clear	Polycarbonate	Rubber	64931	**2CWU2**
	24VDC	1.8A	Hardwired	—	5"	Clear	Polycarbonate	Rubber	64921	**2CWT9**

ECCO
J.W. SPEAKER
Maxxima

Oval Work Lights


No. 49KD98


No. 49KD91


No. 49EM13


No. 49CT72

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24VDC	1.2A	Pigtail	725 lm	3⅞"	3"	Clear	Polycarbonate	Aluminum	EW2491	**49KD98**
	12 to 24VDC	1.9A	Pigtail	2050 lm	5⅜"	3⅛"	Clear	Polycarbonate	Aluminum	EW2341	**49KD92**
Spot Light	12 to 24VDC	1.9A	Pigtail	2200 lm	5⅜"	3⅛"	Clear	Polycarbonate	Aluminum	EW2340	**49KD91**
J.W. Speaker											
Flood Light	12 to 24VDC	3.2A@24VDC	Pigtail	5400 lm	6¾"	3"	Clear	Polycarbonate	Aluminum	7150	**49EM13**
Work Light	—	1.0 to 0.2A AC	DT04-2P Connector	—	5 1/16"	3"	—	Polycarbonate	Polycarbonate	770 BLU	**40CR58**
Maxxima											
Work Light	12 to 36VDC	.4A@36VDC	Pigtail	1000 lm	3½"	3"	Clear	Polycarbonate	Aluminum	MWL-18-B	**49CT72**

J.W. SPEAKER
Maxxima
Grote
The first name in vehicle safety systems.

Fog Lights


No. 45RH97


No. 49CT71


No. 54DE39


No. 13W969

Lens Shape	Volt Bulb	Current Rating	Wiring Connection	Lumens	Length	Width	Diameter	Lens Color	Lens Material	Housing Material	Replacement Lamp	Mfr. Model	Item No.
LED													
J.W. Speaker													
Round	12VDC	1.5A	Hardwired	211 lm	4¾"	—	4½"	Clear	Polycarbonate	Aluminum	—	6150	**45RH97**
Rectangular	12	1.2A	Pigtail	800 lm	5½"	1.78"	—	—	—	—	—	6048	**45RJ01**
Maxxima													
Rectangular	12/36VDC	0.8A to 0.4A	Hardwired	250 lm	6"	2⅛"	—	—	Polycarbonate	Polycarbonate	—	MFL-100W	**49CT71**
	12/24VDC	0.8A to 0.4A	Hardwired	300 lm	3"	2¾"	—	Clear	Acrylic	Aluminum	—	MFL-200W	**54DE39**
Halogen													
Grote													
Rectangular	12VDC	4.7A	Hardwired	—	3½"	2⅝"	—	Clear	Glass	Nylon	2FND2	63531	**13W969**
Oval	12VDC	4.7A	Hardwired	—	5½"	3⅛"	—	Clear	Glass	Aluminum	2FND2	64371-5	**2VPH6**

ECCO J.W. SPEAKER Railhead GEAR

Forklift Lights

Lights are designed to project a blue spot on the floor or ground as a visual warning to pedestrians that mobile equipment is near. They can be installed on the front or back of a forklift, sweeper, or other material handling equipment for safety alerts going forward or backing.


No. 49KD86


No. 404M30


No. 54UD06


No. 45TX84


No. 45TX85

Item	Voltage	Current Drawn	Wiring Connection	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED										
Ecco										
Pedestrian Arrow Light	12 to 56VDC	0.6A	Pigtail	4"	3⅝"	Blue	Polycarbonate	Aluminum	EW2010B	**49KD86**
Warning Light	12VDC	0.6A	Pigtail	7"	5"	—	Polycarbonate	Aluminum	EW2002B	**405Z35**
J.W. Speaker										
Keep Out Light	12 to 110VDC	1.6A	Pigtail	6"	2½"	—	Polycarbonate	Aluminum	793	**404M30**
Railhead Gear										
Forklift Arrow Light	9 to 96VDC	0.5A	Pigtail	3¼"	3¾"	Clear	Polycarbonate	Aluminum	RH-Arrow B	**54UD06**
Forklift Safety Light	—	0.45A	Pigtail	2¾"	3¼"	—	Polycarbonate	Aluminum	KE-BL1	**45TX84**
	—	0.3A	Pigtail	5½"	3¼"	Red	Polycarbonate	Aluminum	KE-LTRL-RED	**45TX85**
LED Safety Light	—	—	Hardwired	3¼"	5"	—	Polycarbonate	—	KE-LTBL-2	**20HJ55**
Pedestrian Warning Light	10 to 80VDC	0.9A	Pigtail	6"	2⅜"	Red	Polycarbonate	Aluminum	KE-RZL1	**54UD08**


No. 55JH93


No. 55JJ04


No. 55JJ05


No. 2VPH5


No. 36RM42

ECCO Buyers Grote

Snowplow Lights

Headlamps come with high/low beam and turn signal light with shock-resistant mounting.

Lens Shape	Volt Bulb	Wiring Connection	Lumens	Length	Width	Includes	Replacement Pigtail	Mfr. Model	Item No.
LED									
Ecco									
Square	12 to 24	Hardwired	3600 lm, 1800 lm	9"	3⁵⁄₁₆"	(2) Headlights, Mounting Hardware, Wiring Harness	—	EW4010	**55JH93**
Rectangular	12 to 24	Hardwired	2400 lm, 1600 lm	9²⁹⁄₃₂"	3¹³⁄₃₂"	(2) Headlights, Mounting Hardware, Wiring Harness	—	EW4008	**55JJ04**
	12 to 24	Hardwired	2400 lm, 1600 lm	12¹³⁄₁₆"	3⁷⁄₆₄"	(2) Headlights, Mounting Hardware, Wiring Harness	—	EW4009	**55JJ05**
Halogen									
Buyers Products									
Rectangular	12	Plug	—	13	5 ⅜"	Universal Wiring Harness, Toggle Switch and Installation Hardware	—	1311100	**36RM42**
Grote									
Rectangular	12	Hardwired	40,000 lm/25,000 lm	12"	6"	(2) Lamps	2CXA6	64261-4	**2VPH4**
	12	Hardwired	40,000 lm/25,000 lm	12"	6"	(2) Lamps and Connectors	2CXA6	64291-4	**2VPH5**

Grote

Spotlights

Feature steel construction with chrome finish and a hardwired connection. No. 2VPG8 has an adjustable tilt. No. 2CWR6 has a surveillance lamp with handle.


No. 2VPG8


No. 2CWR6

Item	Light Output	Voltage	Current Drawn	Mounting	Color	Diameter	Mfr. Model	Item No.
Halogen								
Work Light	75,000 CP	12	2.3A	Permanent	Clear	6½"	63941	**2VPG8**
Spot Light	160,000 CP	12	3.9A	Permanent	White/Clear	6⅛"	63921	**2CWR6**


No. 468F57


No. 54DE08


No. 411Z76

J.W. SPEAKER · Maxxima · Grote

Rectangular LED Headlights

Headlamps offer LED technology in configurations to suit most on-road vehicles.

Volt Bulb	Current Rating	No. of Bulbs	Lumens	Termination Type	Mounting Type	Color	Fits	L	H	W	D	Brand	Mfr. Model	Item No.
Low Beam 5x7														
12 to 24	1.94 to 0.16A	0	975 lm, 1200 lm	H4		White	Universal	7⅞"	5 19/32"	7⅞"	—	J.W. Speaker	8900 Evo 2	**468F57**
Low Beam 4x6														
10 to 32	2.25A	5	2830 lm	Pigtail	Recessed	Gray	Car, Truck, Trailer, Van	6½"	4¼"	3¼"	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE89**
10 to 32	2.25A	5	2830 lm	Pigtail	Recessed	Black	Car, Truck, Trailer, Van	6½"	4¼"	3¼"	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE93**
12 to 24	0.6A	1	400 lm	H4 Pigtail	Surface	Black	Car, Truck, Trailer, Van	6½"	4¼"	3¾"	3 45/64"	Maxxima	VHL-4X6LO	**54DE08**
9 to 30	0.61A	1	630 lm	Automotive H4	Recessed	Clear	Motorcycles, Passenger and Commercial Vehicles	6½"	4⅛"	2¾"	2⅞"	Grote	94421-5	**411Z76**
High Beam 4x6														
10 to 32	2.25A	3	2250 lm	Pigtail	Recessed	Black	Car, Truck, Trailer, Van	6½"	4¼"	3¼"	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE94**
10 to 32	2.25A	3	2250 lm	Pigtail	Recessed	Gray	Car, Truck, Trailer, Van	6½"	4¼"	3¼"	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE90**
12 to 24	0.7A	1	400 lm	H4 Pigtail	Surface	Black	Car, Truck, Trailer, Van	6½"	4¼"	3¾"	4 13/64"	Maxxima	VHL-4X6HI	**54DE11**
High/Low Beam 5x7														
9 to 32	2.54A	1	361 lm, 886 lm	3 Pin H4 Connector	Recessed	Clear	Motorcycles, Passenger and Commercial Vehicles	8"	5½"	4"	4 7/32"	Grote	90951-5	**411Z74**
DRL/Low Beam Combo 4x6														
12 to 24	0.6A	5	400 lm	H4 Pigtail	Surface	Black	Car, Truck, Trailer, Van	6½"	4¼"	3¾"	4 13/64"	Maxxima	VHL-4X6DRL	**54DE10**


No. 52XE91


No. 52XE96

Heated LED Rectangular Headlights

J.W. SPEAKER

LED headlights have a thermally conductive grid that deices lenses in response to the ambient temperature, to help improve visibility without requiring action by the driver. Headlights feature improved light output, glare reduction, and light placement to meet the demands of on-road trucking. The tough, die-cast housing offers protection from salt spray for efficient thermal management.

Current Rating	Volt Bulb	No. of Bulbs	Wiring Connection	Mounting	Used For	L	W	D	Chrome Item No.	Black Item No.	White Item No.
Low Beam											
2.25A	10 to 32	5	Hardwired	Permanent	Cars, Trucks, Vans	6½"	3¼"	4"	**52XE91**	**52XE95**	—
High Beam											
2.25A	10 to 32	3	Hardwired	Permanent	Cars, Trucks, Vans	6½"	3¼"	4"	**52XE92**	**52XE96**	—
Headlight											
5.35A to 1.32A DC	12 to 24	0	H4 Connector	Recessed	Cars, Trucks, Vans	7⅞"	7⅞"	—	—	—	**468F59**


No. 31DF94

LED Round Headlights

Maxxima

Replacement high- and low-beam headlamps comply with U.S. and Canada safety standards. 5-LED lamps. Maxxima® headlight features auto-select 12/24VDC and completely sealed electronics.

Current Rating	Volt Bulb	No. of Bulbs	Termination Type	Mounting Type	Color	Fits	Dia.	Mfr. Model	Item No.
Maxxima									
2.7A	12/24	5	H4 3 Connector	Recessed	Chrome	Universal	6 29/32"	MHL-07HILO	**31DF94**


No. 2EKW1


No. 2FNC9


No. 2FND8


No. 3EHN9


No. 2EKV8

LunaPro

Replacement Headlights

Trade No.	Voltage	Watts	Average Life	Item No.
Fog Lights				
880	12VAC	27W	300 hr.	**2FMU6**
881	12VAC	27W	300 hr.	**2FMU7**
885	12VAC	50W	200 hr.	**2EKW1**
886	12VAC	50W	200 hr.	**2FMU8**
889	12VAC	27W	300 hr.	**2FMU9**
890	12VAC	27W	300 hr.	**2FMV1**
893	12VAC	37.5W	200 hr.	**2EKW3**
894	12VAC	37.5W	200 hr.	**2FMV3**
896	12VAC	37.5W	200 hr.	**2FMV4**
898	12VAC	37.5W	1900 hr.	**2FMV5**
9008	12/12VAC	55/60W	200/600 hr.	**2FMY5**
9055	12/12VAC	55W	800 hr.	**2FMY8**
9140	12VAC	40W	1200 hr.	**2FMY9**
9145	12VAC	45W	1000 hr.	**2FMZ1**
H2	12.8VAC	55W	255 hr.	**2FNC8**
H3	12VAC	130W	50 hr.	**2FND1**
	12.8VAC	100W	150 hr.	**2FNC9**
	12.8VAC	55W	400 hr.	**2FND2**
	13.5VAC	55W	400 hr.	**2FND3**
	24VAC	84W	400 hr.	**2FND4**
H8	12VAC	35W	350 hr.	**2FND8**

Trade No.	Voltage	Watts	Average Life	Item No.
High/Low Beam				
9003	12VAC	61/67W	150/320 hr.	**2EKW8**
9004	12/12VAC	45/65W	150/320 hr.	**2FMY1**
	12VAC	45/65W	300/640 hr.	**2FNA8**
9007	12/12VAC	55/65W	150/320 hr.	**2FMY4**
	12VAC	55/65W	300/1200 hr.	**3EHN9**
H4	13.2VAC	100W	75/150 hr.	**2FND5**
	13.2VAC	55/60W	150/300 hr.	**2EKX5**
	28VAC	70/75W	150/300 hr.	**2EKX6**
H7	12VAC	55W	250 hr.	**2FND6**
	12VAC	55W	500 hr.	**2FND7**
High Beam				
9005	12VAC	65W	150 hr.	**2FMY2**
	12VAC	65W	320 hr.	**2FNA9**
	12VAC	65W	500 hr.	**3EHN7**
H9	12VAC	65W	200 hr.	**2FND9**
	12VAC	65W	300 hr.	**2FNE1**
Low Beam				
9006	12VAC	55W	320 hr.	**2FNB1**
	12VAC	55W	320 hr.	**2FMY3**
	12VAC	55W	1000 hr.	**3EHN8**
H3	12VAC	65W	200 hr.	**2EKX3**
	24VAC	84W	300 hr.	**2FNC5**
H11	12VAC	55W	600 hr.	**2FNC6**
	12VAC	55W	1000 hr.	**2FNC7**
Tractor				
862	12VAC	37.5W	1900 hr.	**2EKV8**


No. 55AV67


No. 55AV68


No. 55AV71


No. 55AV64


No. 55AV56


No. 55AV60


No. 55AV62


No. 55AV59


No. 55AV57

GOLIGHT®

Portable Searchlights

- Horizontal axis rotation: 370°
- Vertical axis rotation: 135°

Powerful lights are designed to provide intense illumination for automotive, first responder, work truck, marine, military, and outdoor applications. They are UV- and saltwater-resistant. Remote control and mounting options include wireless handheld (H/H) or dash-mount, hardwired dash-mount, and handheld portable wired remote. Mounted searchlights are available with permanent mounting or portable magnetic-mount.


No. 52WT49


No. 36E687

Amps	Watts	Candle Power	Includes	Body Color	H	W	D	Mfr. Model	Item No.
LED									
Wireless Handheld - Remote Controlled									
3.5	40	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote	White	7.5"	7.25"	6.7"	20004GT	**55AV63**
3.5	40	410,000	Magnetic Mount Shoe, Wireless Handheld Remote, 15 ft. Power Cord with Cigarette Plug	White	8"	7.25"	8.5"	79014GT	**55AV67**
3.5	40	410,000	Magnetic Mount Shoe, Wireless Handheld Remote, 15 ft. Power Cord with Cigarette Plug	Black	8"	7.25"	8.5"	79514GT	**55AV68**
3.5	40	410,000	Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	White	7"	7.25"	7.5"	30004ST	**55AV70**
3.5	40	410,000	Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	Black	7"	7.25"	7.5"	30514ST	**55AV71**
Hardwired - Remote Controlled									
2.8	40	320,000	Harness and Remote	White	6.5"	7"	7"	30204	**52WT47**
3.5	40	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Hardwired Dash Mount Remote, 20 ft. Wiring Harness	White	7.5"	7.25"	6.7"	20204GT	**55AV65**
3.5	40	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Hardwired Dash Mount Remote, 20 ft. Wiring Harness	Black	7.5"	7.25"	6.7"	20214GT	**55AV66**
Dual Wireless - Remote Controlled									
3.5	40	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote, Wireless Dash Mount Remote	White	7.5"	7.25"	6.7"	20074GT	**55AV64**
Halogen									
Wireless - Remote Controlled									
5.5	65	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Mounting Gasket, Mounting Plate Screws, Wireless Handheld Remote	White	7.5"	7.25"	6.7"	2000GT	**55AV56**
5.5	65	225,000	Rockguard, Permanent Mount Shoe, Wireless Handheld Remote, 15 ft. Power Cord with Cigarette Plug	White	8"	7.25"	8.5"	7900GT	**55AV60**
Wireless Handheld - Remote Controlled									
5.5	65	225,000	Rockguard, Magnetic Mount Shoe, Wireless Handheld Remote, 15 ft. Power Cord with Cigarette Plug	White	8"	7.25"	8.5"	7901GT	**55AV61**
5.5	65	225,000	Rockguard, Magnetic Mount Shoe, Wireless Handheld Remote, 15 ft. Power Cord with Cigarette Plug	Black	8"	7.25"	8.5"	7951GT	**55AV62**
5.5	65	225,000	Rockguard, Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	White	7"	7.25"	7.5"	3000ST	**55AV69**
Hardwired - Remote Controlled									
5.5	65	200,000	Harness, Remote and Rockguard	White	6.5"	7"	7"	3020	**52WT46**
5.5	65	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Hardwired Dash Mount Remote, 20 ft. Wiring Harness	White	7.5"	7.25"	6.7"	2020GT	**55AV58**
5.5	65	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Hardwired Dash Mount Remote, 20 ft. Wiring Harness	Black	7.5"	7.25"	6.7"	2021GT	**55AV59**
Dual Wireless - Remote Controlled									
5.5	65	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote, Wireless Dash Mount Remote	White	7.5"	7.25"	6.7"	2007GT	**55AV57**
Accessories									
Wireless Handheld Remote								30100	**52WT49**
LED Retrofit Insert								15444	**36E687**


No. 14A872


No. 49KD51


No. 35ZX11


No. 45RJ16


No. 52AZ51


No. 45A237


No. 18C530


No. 3TDK6


No. 12Y111


No. 2ZPW2


No. 39F093

Beacon Strobe Lights

Voltage	Current Drawn	Flashes per Minute	Lens Design	Lens Color	Mounting	Includes	Height	Diameter	Std.	Mfr. Model	Item No.
LED											
Code 3											
12/48VDC	0.17A	7	Round	Amber	Magnetic	9' Lighter Plug with On/Off Switch, Mounting Hardware	2¼"	6¼"	SAE J845 Class III	2004ASMH	**14A873**
12VDC	0.17A	7	Round	Amber	Permanent	Mounting Hardware	2¼"	6¼"	SAE J845 Class III	2004AH	**14A872**
Ecco											
12/24VDC	2A	12	Round, Twist-Off	Amber	Permanent	Gasket, Mounting Hardware	4¾"	6½"	SAE J845 Class I, California Title 13, CE, R10, IP66	7160CA	**406A78**
	2A	12	Round, Twist-Off	Amber	Permanent	Gasket, Mounting Hardware	7½"	6½"	SAE J845 Class I, California Title 13, CE, R10, IP66	7960A	**406A91**
	3.6A	12	Round, Twist-Off	Amber	Permanent	15 ft. Cord with On/Off Switch	9"	6½"	SAE J845 Class I, CE, R10	7970A-VM	**406A95**
	3.6A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	8"	6½"	SAE J845 Class I, CE, R10	7965A	**49KD50**
	3.6A	12	Round, Twist-Off	Amber	Permanent	Magnet Mount, Cig Plug	9"	6½"	SAE Class 1, CE, R10	7965A-VM	**49KD51**
	3.6A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7¾"	6½"	SAE Class 1, CE, R10	7980A	**49KD53**
	1.3A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7¾"	6½"	SAE Class II, CE, R10	EB7935A	**49KD61**
	1.3A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7¾"	6½"	SAE Class II, CE, R10	EB7930A	**49KD62**
12/80VDC	1.9A	85	Round, Twist-Off	Green	Permanent	Gasket, Mounting Hardware	4½"	5⅝"	SAE J945 Class III, CE, R10	6465G	**406A70**
Federal Signal											
12/24VDC	0.3A	14	Round, Twist-Off	Amber	Permanent	Installation Guide	4"	6½"	SAE J845 Class II	212670-02SB	**35ZX11**
	0.3A	14	Round, Twist-Off	Amber	Magnetic	Installation Guide	4"	6½"	SAE J845 Class II	212672-02SB	**35ZX12**
	0.5A	14	Round, Twist-Off	Clear	Magnetic	Installation Guide	3½"	5"	SAE J845 Class II	220260-05	**35ZX18**
	1.2A	14	Round, Twist-Off	Amber	Permanent	Pigtail, 1" Pipe Bottom	5¼"	6½"	SAE J1318 & J845 Class 1	252650-02SC	**39F807**
	0.65A	14	Round, Twist-Off	Amber	Magnetic	Suction Cup Magnetic Mount, Cigarette Plug/Cord	4"	6½"	SAE J845 Class II	212674-02SB	**45TN90**
	0.74A	14	Round, Twist-Off	Amber	Magnetic	Magnetic Mount, Cigarette Plug/Cord	6"	6½"	SAE J845 Class II	212652-02SB	**45TN95**
	0.74A	14	Round, Twist-Off	Amber	Magnetic	Suction Cup Magnetic Mount, Cigarette Plug/Cord and Tall Dome	6"	6½"	SAE J845 Class I	212664-02SB	**45TN96**
	1.25A	14	Round, Twist-Off	Amber	Permanent	Wire Lead	5½"	6½"	SAE J845 Class II	420223-02	**45TP10**
	1.25A	14	Round, Twist-Off	Amber	Permanent	Wire Lead, Enclosed Aluminum Base, Dust Cover, Branch Guard	5½"	6½"	SAE J845 Class II	420222-02	**45TP11**
J.W. Speaker											
12/80VDC	0.35A	Variable	Round	Amber	Permanent	—	4"	5"	SAE J845 Class II	406	**45RJ16**
Maxxima											
12VDC	0.6A	20	Oval	Amber	Magnetic	Surface Mount, 12 ft. Cord	4"	8"	SAE J845 Class I, CAC TITLE 13	M20387YCL	**52AZ51**
PSE Amber											
12/24VDC	1.2A	100	—	Amber	Permanent	—	4½"	6½"	SAE J845 Class I	CL199AH	**3TDK4**
Wolo											
12/60VDC	1.37A	Variable	—	Amber	Permanent	Mounting Hardware	6¾"	4½"	SAE Class II	3080PPM-A	**45A233**
	1.37A	Variable	—	Blue	Permanent	Mounting Hardware	6¾"	4½"	SAE Class II	3085PPM-B	**45A234**
	1.37A	Variable	—	Red	Permanent	Mounting Hardware	6¾"	4½"	SAE Class II	3090PPM-R	**45A235**
	1.37A	Variable	—	Green	Permanent	Mounting Hardware	6¾"	4½"	SAE Class II	3097PPM-G	**45A237**
Halogen											
GA											
12/48VDC	0.38A	80	Round	Amber, Black	—	3 Hex Head Screws, 3 Hex Nuts, 3 Lock Washers, 3 Flat Washers, 1 Brushing, 1 Barrier Strip With 4 Terminals And 1 Gasket	4¾"	6"	SAE	18C530	**18C530**
	0.38A	80	Round	Amber, Black	Magnetic	—	4¾"	6"	SAE	18C531	**18C531**
12VDC	3A	130	Round	Amber	Magnetic	10 ft. cord	5⅝"	6"	CE	—	**2ERT5**
	3.9A	100	Round	Amber	Permanent	—	6"	6"	CA TITLE 13	555SAH	**3TDK5**
PSE Amber											
12VDC	3.9A	100	—	Red	Permanent	—	6"	6"	CA TITLE 13	555SRH	**3TDK6**
Flash Tube											
Ecco											
12/24VDC	2.2A	Double/Quad	Round, Twist-Off	Amber	Permanent	Wiring Harness, Mounting Hardware	7¾"	6½"	SAE J1318 Class II, CE, R10	6650A	**5LNF6**
Federal Signal											
12/24VDC	1.8A	85	Round, Twist-Off	Amber	Magnetic	Cord With Cigarette Plug	5¼"	6½"	SAE J1318 Class II	251141-02	**12Y111**
12/48VDC	0.03A	75	Round, Twist-Off	Amber	Permanent	Pigtail , Permanent Mount, ½ "Pipe	4"	3"	SAE J845 Class III	462121-02	**5UVL9**
	0.65A	65	Round	Amber	Permanent	Pigtail, Mounting Hardware	5"	5¾"	SAE J845 Class II	220300-02	**5UVL5**
	1.2A	85	Round	Amber	Permanent	Pigtail, 1" Pipe Bottom	5¼"	6½"	SAE J1318 Class II	251121-02	**5UVL6**
12/72VDC	0.24A	60	Round, Twist-Off	Amber	Magnetic	—	3½"	5"	SAE J845 Class III	220208-02	**401M98**
12 to 48VDC	0.30A	75	Fresnel	Red	Permanent	—	4"	3"	SAE J845 Class III	462121-04	**401N29**
Reese											
12VDC	0.3A	70	Round	Amber	Magnetic	10 ft. Cord w/Lighter Plug and On/Off Switch and LED Indicator	6"	4⅝"	SAE J845 Class III	7381442	**2ZPW2**
Federal Signal											
12/24VDC	0.24A	60	Round, Twist-Off	Amber	—	—	3¾"	5"	SAE J1318 Class III	220100-02	**3TDR1**
12/48VDC	0.65A	60	Round, Twist-Off	Amber	—	—	3¾"	5"	SAE J845 Class III	220105-02	**3TDR3**
12VDC	0.17A	60	Round, Twist-Off	Amber	—	Cigarette plug	3¾"	5"	SAE J845 Class III	220110-02	**3NRP2**
Railhead Gear											
120VAC	0.18A	63, 63, 80, 120	Dome	Amber	Permanent	—	—	—	—	M490 LED A	**39F093**
	0.18A	63, 63, 80, 120	Dome	—	—	—	—	—	—	M490 LED B	**39F094**


No. 49KD43


No. 49KD44


No. 12Y109


No. 45TN91


No. 35ZX15


No. 6GPP0


No. 49KD40

Beacon Rotating Lights

ECCO · FEDERAL SIGNAL · PSE AMBER®

Voltage	Current Drawn	Flashes per Minute	Lens Design	Lens Color	Mounting	Includes	Height	Diameter	Std.	Mfr. Model	Item No.
LED											
Ecco											
12/24VDC	2.1A	12	Round, Twist-Off	Amber	Permanent	15 ft. Cord with On/Off Switch	7¾"	6½"	SAE J845 Class I, California Title 13, CE, R10, IP67	7660A-VM	**406A87**
12/80VDC	0.47A	70	Round, Twist-Off	Amber	Permanent	Mounting Hardware	4⅞"	2¾"	SAE Class III, CE, R10, UL IP67	6262A	**49KD42**
	0.47A	70	Round, Twist-Off	Amber	Permanent	Mounting Hardware	4⅞"	2¾"	SAE Class III, CE, R10, UL IP67	6267A	**49KD43**
	0.1A	85	Round, Twist-Off	Amber	Permanent	Mounting Hardware	3⅞"	5⅝"	SAE Class III, CE, R10	6465A	**49KD44**
	0.1A	85	Round, Twist-Off	Amber	Permanent	Magnet Mount, Cig Plug	3⅞"	5⅝"	SAE Class III, CE, R10	6465A-MG	**49KD45**
12/24VDC	1.3A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	8"	6½"	SAE J845 Class II, CE, R10	7945A	**49KD48**
	1.3A	12	Round, Twist-Off	Amber	Magnetic	Magnet Mount, Cig Plug, 15 ft. Cord	9"	6½"	SAE Class II, CE, R10	7945A-VM	**49KD49**
Federal Signal											
12/24VDC	0.8A	14	Round, Twist-Off	Amber	Permanent	Pigtail, 1" Pipe Bottom	6"	6½"	SAE J845 Class II	212650-02	**12Y109**
	1.2A	14	Round, Twist-Off	Amber	Magnetic	Cord With Cigarette Plug	5¼"	6½"	SAE J1318 J845, Class 1	252651-02	**12Y108**
	1A	14	Round, Twist-Off	Amber	Permanent	Wire Lead, O-Ring Gasket	4"	5"	SAE J845 Class III	220350-02	**45TN91**
	1A	14	Round, Twist-Off	Amber	Magnetic	Magnetic Mount, Cigarette Plug/Cord, O-Ring Gasket	4"	5"	SAE J845 Class III	220360-02	**45TN92**
	0.74A	14	Round, Twist-Off	Amber	Permanent	Wire Lead, 1" Pipe, Permanent Mount	6"	6½"	SAE J845 Class I	212660-02SB	**45TN93**
	0.65A	14	Round, Twist-Off	Amber	Magnetic	Suction Cup Magnetic Mount, Cigarette Plug/Cord, Tall Dome	6"	6½"	SAE J845 Class II	212654-02SB	**45TN97**
	1A	14	Round, Twist-Off	Amber	Permanent	Perm Mt, ½ in. Pipe Mount	3½"	5"	SAE J845 Class II	220250-02	**35ZX15**
	1A	14	Round, Twist-Off	Amber	Magnetic	Cord with Cigarette Plug	3½"	5"	SAE J845 Class II	220260-02	**35ZX17**
	1.8A	75/90/120	Oval	Amber	Permanent	—	5¾"	7"	SAE J845, Class 1	262650-02	**39F803**
PSE Amber											
12VDC	0.85A	Variable	Round	Amber	Magnetic	9 ft. Cord w/Lighter Plug	4½"	5"	SAE J845 Class I, California Title 13	LSS222AM	**6GPP0**
Halogen											
Ecco											
12VDC	4.9A	195	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7¾"	6"	SAE Class 1, R10, R65	5813A	**49KD39**
	4.9A	195	Round, Twist-Off	Amber	Magnetic	15 ft. Cord w/Switch Lighter Adapter	7¾"	6"	SAE Class 1, R10, R65	5813A-MG	**49KD40**
	4.9A	195	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7¾"	6"	SAE Class 1, R10, R65	5816A	**49KD41**

Maxxima · Grote (The first name in vehicle safety systems.) · Railhead Gear

LED Magnetic Battery-Operated Warning Lights


No. 39F092


No. 13W999


No. 22N676

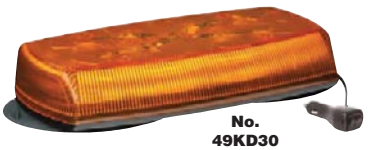

No. 22N677


No. 39F105

Color	Lens Design	Power Source	Dim.	Brand	Mfr. Model	Item No.
Magnetic Safety/Warning Light						
Amber	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	M100A-LED	**39F079**
Blue	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	M100B-LED	**39F078**
Red	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	M100R-LED	**39F080**
Revolving Safety/Warning Light						
Amber	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	RM18-LED A	**39F091**
Blue	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	RM18-LED	**39F090**
Red	Dome	(2) D Batteries (Not Included)	4³⁄₆₄" dia. x 5½"H	Railhead Gear	RM18-LED R	**39F092**
Warning Light						
Amber	Round	(2) D Batteries (Not Included)	4¼" dia. x 5³⁄₁₆"H	Grote	77913	**13X001**
Red	Round	(2) D Batteries (Not Included)	4¼" dia. x 5³⁄₁₆"H	Grote	77912	**13W999**
Amber	Round	(3) AAA Batteries (Not Included)	3½" dia. x 1½"H	Maxxima	SDL-35Y	**22N676**
Amber	Oval	(4) AA Batteries (Not Included)	1¹³⁄₃₂"H x 4"W	Maxxima	SDL-50-A	**22N677**
Red	Round	(3) AAA Batteries (Not Included)	3½" dia. x 1½"H	Maxxima	SDL-35R	**22N675**
Red	Oval	(4) AA Batteries (Not Included)	1¹³⁄₃₂" H x 4"W	Maxxima	SDL-52-A	**22N678**
Warning Strobe						
Blue	Round Screw On	(1) D Battery (Not Included)	2¹⁄₃₂" dia. x 4½"H	Railhead Gear	M50B-LED	**39F105**


No. 13K472


No. 49KD32

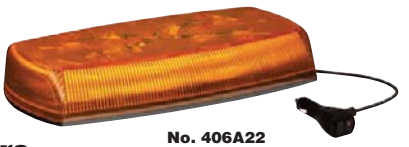

No. 49KD30


No. 49KD38


No. 35GX20


No. 406A15

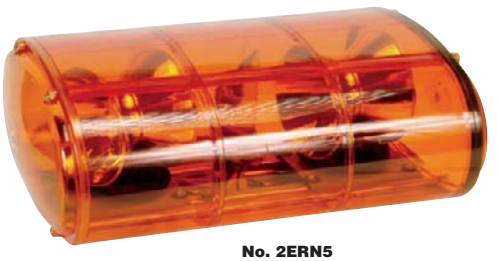
CODE 3 ECCO FEDERAL SIGNAL PSE AMBER®


No. 406A22


No. 35GX17

Mini LED Low-Profile Lightbars

Color	No. of LEDs	Current Drawn	No. of Flash Patterns	Includes	Wiring Connection	Length	Width	Height	Mfr. Model	Item No.
Magnetic										
Code 3										
Amber	30	2.5	17	10½ ft. Power Cord with Lighter Plug, and On/Off and Flash Pattern Switches	Lighter Plug	17⅝"	8"	3"	SHL10AMH	**13K472**
Ecco										
Amber LED/Clear Lens	16	2.7A	18	Suction Cup Magnet Mount, Cigarette Plug, 15 ft. Cord	Lighter Plug	18"	10"	3"	5580CA-VM	**49KD32**
Amber	16	2.7A	18	Suction Cup Magnet Mount, Cigarette Plug, 15 In. Cord	Lighter Plug	18"	10"	3"	5580A-VM	**49KD30**
Amber/Clear	32	6A	18	Suction Cup Magnet Mount, Cigarette Plug, 15 ft. Cord	Lighter Plug	15"	10"	3"	5590CAC-VM	**49KD37**
Amber LED/Clear Lens	32	6A	18	Suction Cup Magnet Mount, Cigarette Plug, 15 In. Cord	Lighter Plug	18"	10"	3"	5590CA-VM	**49KD38**
Federal Signal										
Amber	26	4 A	23	Gasket, Magnetic Mount, Cigarette Plug, 10 ft. Cord	Lighter Plug	15⅘"	8⅜"	3"	454102HL-02	**35GX20**
Amber	26	4 A	23	Gasket, Cigarette Plug, 10 ft. Cord	Pigtail	15⅘"	7"	3"	454100HL-02	**35GX16**
Amber	26	4 A	23	Gasket, Magnetic Mount, Cigarette Plug, 10 ft. Cord	Lighter Plug	15⅘"	7"	3"	454102HL-25	**35GX21**
Amber	42	6A	23	Mounting Hardware, Cigarette Plug Adapter	Lighter Plug	15$^{13}/_{16}$"	7"	3"	454300HL-AA	**401N77**
Amber	42	6A	23	Mounting Hardware, Cigarette Plug Adapter	Lighter Plug	15$^{13}/_{16}$"	7"	3"	454302HL-AA	**401N79**
Reflex										
Amber/Clear	24	0.7A	18	15 ft. Cigarette Plug with Switch	Lighter Plug	12"	8¾"	4$^{3}/_{32}$"	5545CA-VM	**406A15**
Amber	24	2.7A	18	15 ft. Cigarette Plug with Switch	Lighter Plug	18"	10"	3"	5580A-MG	**406A22**
Amber	24	2.7A	18	15 ft. Cigarette Plug with Switch	Lighter Plug	15"	9"	2½"	5585A-VM	**406A26**
Permanent										
Code 3										
Amber	30	2.5	17	9½ ft. Wiring Harness	Pigtail	17⅝"	8"	3"	SHL10A	**13K471**
Amber	32	16A	12	Wiring Harness, Mounting Hardware	Pigtail	22"	12"	2"	21TR22A1	**13K452**
Red/Blue	48	24A	23	Wiring Harness, Mounting Hardware	Pigtail	52"	12$^{19}/_{64}$"	2$^{19}/_{64}$"	21TR52A4	**13D628**
Amber	60	100A	12	Wiring Harness, Mounting Hardware	Pigtail	58"	12$^{19}/_{64}$"	2$^{19}/_{64}$"	21TR5812	**13K451**
Amber	72	36A	12	Wiring Harness, Mounting Hardware	Pigtail	47"	12"	2"	21-30407-C	**13K449**
Ecco										
Amber	16	2.7A	18	Mounting Hardware, Foam Gasket, Lead Wires	Pigtail	18"	10"	3"	5580A	**49KD29**
Amber LED/Clear Lens	16	2.7A	18	Mounting Hardware, Foam Gasket, Lead Wires	Pigtail	18"	10"	3"	5580CA	**49KD31**
Amber	32	6A	18	Mounting Hardware, Foam Gasket, Lead Wires	Pigtail	18"	10"	3"	5590A	**49KD33**
Amber LED/Clear Lens	32	6A	18	Mounting Hardware, Foam Gasket, Lead wires	Pigtail	18"	10"	3"	5590CA	**49KD35**
Amber	72	8A	31	Mounting Hardware	Pigtail	52"	17½"	7"	21-00009-E	**405Z79**
Federal Signal										
Amber	26	4 A	23	Gasket, Permanent Mount, 18 In. Cord	Pigtail	15⅘"	8⅜"	3"	454101HL-02	**35GX18**
Amber	26	4 A	23	Gasket, Permanent Mount, 18 In. Cord	Pigtail	15⅘"	7"	3"	454101HL-25	**35GX19**
Blue	26	8A	23	Mounting Hardware	Pigtail	15$^{13}/_{16}$"	7"	3"	454101HL-03	**401N75**
Amber	36	4.8 A	23	Gasket, Permanent Mount, 18 In. Cord	Pigtail	15⅘"	7"	3"	454201HL-02	**35GX24**
Amber	36	4.8 A	23	Gasket, Permanent Mount, 18 In. Cord	Pigtail	15⅘"	7"	3"	454201HL-25	**35GX26**
Amber	42	6A	23	Mounting Hardware	Pigtail	15$^{13}/_{16}$"	7"	3"	454301HL-AA	**401N78**
Red	42	6A	23	Mounting Hardware	Pigtail	15$^{13}/_{16}$"	7"	3"	454301HL-RR	**401N80**
PSE Amber										
Amber	78	59A	4	15 ft. Wiring Harness, Mounting Hardware	Pigtail	47"	12"	3"	2747AW1	**6GPW7**
Suction										
Federal Signal										
Amber	26	4 A	23	Gasket, Suction Cup Magnet Mount, Cigarette Plug, 10 ft. Cord	Pigtail	15⅘"	7"	3"	454100HL-25	**35GX17**


No. 2ERN5

Mini Halogen Rotating Lightbars

GA GRAINGER APPROVED

Color	No. of Heads	Current Drawn	Flashes per Minute	Wiring Connection	Includes	Length	Width	Height	Mfr. Model	Item No.
Magnetic										
GA										
Amber	2	9A	95	Pigtail	—	16⅗"	11⅘"	7$^{3}/_{16}$"	2ERN5	**2ERN5**


No. 12P045


No. 12P028


No. 421F08


No. 13D548


No. 5LLR3


No. 49KD73


No. 5UVN1

LED Emergency Vehicle Lighting

CODE 3 ECCO FEDERAL SIGNAL

Item	Voltage	Current Drawn	Lens Color	Flash Type	Flashes per Minute	Mounting	Includes	Wiring Connection	Length	Height	Width	Mfr. Model	Item No.
Code 3													
Dual Head Dash/Deck Light	—	0.5A	Blue, Red	22 Flash Patterns	Variable	Suction	12 ft. Cord w/Lighter Plug and On/Off Switch	Lighter Plug	13"	1¾"	4¾"	XT602	**12P045**
	—	0.6A	Blue, Red	27 Flash Patterns	Variable	Permanent	Pigtail	Lighter Plug	7"	2"	2½"	ESX2RD	**12P001**
Scene Light	12 to 24VDC	3.3A	White	N/A	0	Permanent	Chrome Bezel, Mounting Hardware	Pigtail	4"	6"	1½"	46SCENE	**421G24**
	12 to 24VDC	3.8A	White	N/A	0	Permanent	Chrome Bezel, Mounting Hardware	Pigtail	7"	9"	1½"	79SCENE	**421G44**
Single Head Dash Light	—	0.5A	Amber	22 Flash Patterns	Variable	Suction	Mounting Bracket, 12 ft. Cord w/Lighter Plug, On/Off Switch	Lighter Plug	5"	1¾"	4¾"	XT401	**12P028**
	—	0.3A	Amber	22 Flash Patterns	Variable	Suction	12 ft. Cord w/Lighter Plug and On/Off Switch	Lighter Plug	6¾"	1¾"	4¾"	XT601	**12P037**
Warning Light	12VDC	0.5A	Amber	7 Flash Patterns	Variable	Permanent	Pigtail	Pigtail	5"	2"	1"	LXEX1F	**13D547**
	12VDC	0.5A	Red	7 Flash Patterns	Variable	Permanent	Pigtail	Pigtail	5"	2"	1"	LXEX1F	**13D548**
	12 to 24VDC	0.75A	Blue, Red	69 Flash Patterns	Variable	Permanent	Mounting Hardware, Edge Mounts	Pigtail	4½"	¾"	1"	MR6-RB	**421F08**
Ecco													
Directional Lamp	12VDC	—	Clear, White	—	—	Permanent	Mounting Gasket	Pigtail	6½"	2½"	2"	3811C	**5LLR4**
	12VDC	—	Yellow	—	—	Permanent	Mounting Gasket	Pigtail	6½"	2½"	2"	3811A	**5LLR3**
Warning Light	12 to 24VDC	—	Amber, White	—	—	Permanent	Mounting Hardware	Pigtail	4"	1½"	1½"	ED3702AC	**49KD73**
	12 to 24VDC	—	Amber, White	—	—	Permanent	Mounting Hardware	Pigtail	5½"	2"	2"	ED3706A	**49KD76**
Federal Signal													
Dual Head Dash/Deck Light	—	2.2A	Blue, Red	25 Flash Patterns	Variable	Suction	Snap-on Flash Guard, Reflective Tape, 5 ft. Pigtail, Mounting Bracket and Hardware	Pigtail	8½"	1¾"	3"	329001-43	**12Z139**
Perimeter Light	12 to 24VDC	0.55A	Amber, White	25 Flash Patterns	Variable	Permanent	Black Bezel, Gasket	Pigtail	5½"	2"	½"	MPS1200U-WA	**45TN63**
	12 to 24VDC	0.55A	Red	25 Flash Patterns	Variable	Permanent	Black Bezel, Gasket	Pigtail	5½"	2"	½"	MPS1200U-RR	**45TN64**
	12 to 24VDC	0.55A	Amber	23 Flash Patterns	Variable	Permanent	Black Bezel, Gasket	Pigtail	5½"	1¼"	½"	MPS600U-AA	**45TN69**
Scene Light	12VDC	4A	White	—	—	Permanent	—	Pigtail	11"	1¾"	8	QL97LEDSCENE	**39F789**
Warning Light	12VDC	0.7A	Red	25 Flash Patterns	Variable	Permanent	Pigtail, Black Bezel, Rubber Grommet, Screws	Pigtail	3¾"	1¾"	1¼"	IPX302-4	**12Z087**
	12VDC	1A	Blue, Red	23 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5½"	2"	1½"	IPX620B-BR	**35ZX37**
	12VDC	0.7A	Amber	25 Flash Patterns	Variable	Permanent	Pigtail, Black Bezel, Rubber Grommet, Screws	Pigtail	3¾"	1¾"	1¼"	IPX300-2	**3JYP9**
	12VDC	0.7A	Amber	25 Flash Patterns	Variable	Permanent	Pigtail, Black Bezel, Rubber Grommet, Screws	Pigtail	3¾"	1¾"	1¼"	IPX302-2	**5UVN1**


No. 13D586


No. 49KD80


No. 6GPV9

Directional Light Bars

CODE 3 ECCO FEDERAL SIGNAL PSE AMBER®

Item	Current Drawn	Lens Color	Flash Type	Flashes per Minute	Mounting	Includes	Wiring Connection	Length	Height	Width	Mfr. Model	Item No.
Code 3												
Dual Head Dash/Deck Light	1A	Amber	22 Flash Patterns	Variable	Bracket	Mounting Bracket	Pigtail	9⅞"	1¼"	2"	XT402AA	**13D586**
Ecco												
Directional Lamp	—	Amber, Clear	—	—	Permanent	Multi Mount Hardware	Pigtail	1½"	1¼"	6½"	ED3766AC	**49KD80**
Federal Signal												
Directional Warning Lights	2.4A	Amber	Arrow Left, Arrow Right, Center Out, Emergency Wigwag	Variable	Permanent	35 ft. Cable, Control Box, Stop/Tail/Turn Override	Wire Harness	42"	3"	3"	321712	**3KPW9**
PSE Amber												
Directional Warning Lights	0.5A	Amber	32 Flash Patterns	Variable	Permanent	(8) XT3 LED Modules, Control Panel, 15-ft. Cable, and Removable L-Shape Mounting Bracket	Pigtail	28 19/32"	1¼"	2"	XT308AS	**6GPV9**
	6A	Amber	32 Flash Patterns	Variable	Permanent	(8) Amber LED Modules, Control Panel, 15-ft. Cable, and Removable L-Shape Mounting Bracket	Pigtail	47"	1¼"	2"	XT447AS	**6GPW0**

Rectangular Clearance Marker Lights and Bar Lights


No. 2CVW9


No. 2CVX1


No. 2CVY5


No. 2FED2


No. 5UVY2


No. 36XD89


No. 2CVV7


No. 2VNK8


No. 2VNU7


No. 13W951

Description	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Clearance Marker Lamp											
LED											
SuperNova® Turtleback® II	5¾"	1½"	2"	2CWX1, 2CWX3, 2CWZ5, 2VPL8	—	—	Grote	47072	**2CVW9**	47073	**2CVX1**
SuperNova® 19 Style	3⅛"	⅞"	1¼"	2VPL6, 2VPL7	2CVP3	—	Grote	47092	**2CVX2**	47093	**2CVX3**
SuperNova® Thin Line	3¾"	1¼"	⅞"	2CWX5, 2CWX7	—	—	Grote	47242	**2CVY4**	47243	**2CVY5**
Hi Count® Turtleback® II	5⅞"	1½"	2"	—	—	—	Grote	—	—	G2103	**2FEA2**
Hi Count® 13 Diode	4"	1⅛"	2"	—	2VNJ1	—	Grote	G4602	**2FEC8**	G4603	**2FED2**
SuperNova® 15 Style	2⅝"	¾"	1¼"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2VNH2, 2VNH3, 2VNJ7, 2VNJ8	—	Grote	47082	**2VNT2**	47083	**2VNT3**
Hi Count® 3 Diode	2⅝"	¾"	1¼"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2VNH2, 2VNH3, 2VNJ7, 2VNJ8	—	Grote	G1502	**2VRC3**	—	—
SuperNova®	3⅛"	¾"	2"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	5UVZ5, 5UVZ6	—	Grote	47502	**5UVT0**	47503	**5UVT1**
SuperNova® Thin Line	3¾"	—	⅞"	2CWX5, 2CWX7	—	—	Grote	65512	**5UVY1**	65513	**5UVY2**
SuperNova® Small Aerodynamic	7⅛"	2⅜"	2⅛"	—	2VPZ8	—	Grote	—	—	47183	**2CVY2**
Hi Count® Turtleback®	5⅛"	1½"	2"	—	—	—	Grote	G2102	**2FDZ8**	—	—
Clearance Marker	4"	½"	¾"	—	—	—	Maxxima	M20341RCL	**36XD89**	M20341YCL	**36XD91**
Incandescent											
Turtleback® II Optic Lens	5⅛"	1½"	2"	2CWX1, 2CWX3, 2CWZ5, 2VPL8	—	21U638	Grote	46832	**2CVV7**	46833	**2CVV8**
Knapeheide™ Knapheide Style	3⅛"	¾"	2"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	5UVZ5, 5UVZ6	21U638	Grote	45232	**2VNK8**	45233	**2VNK9**
Narrow Rail, Armored Housing	4½"	1½"	2⅛"	—	—	21U638	Grote	45172	**2CVR7**	45173	**2CVR8**
Bar Lamp											
LED											
SuperNova® Thin Line	19⅜"	2"	1¼"	—	—	—	Grote	49122	**2CWA6**	—	—
Hylite ID	13⅜"	¾"	1½"	—	—	—	Grote	49242-5	**2VNU8**	—	—
SuperNova®	17"	—	1½"	—	—	—	Grote	49182	**2VNU7**	—	—
Thin Line	15"	1⅜"	1¼"	—	—	—	Grote	49192	**13W951**	—	—

Round Clearance Marker Lights


No. 2CVX6


No. 2FEA5


No. 3VMW5


No. 2CVT7


No. 3UKP3


No. 2CVU1


No. 2VNT7

Description	Diameter	Pigtails	Brackets	Replacement Bulbs	Brand	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Clearance Marker Lamp									
LED									
SuperNova®	2"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	47112	**2CVX5**	47113	**2CVX6**
Hi Count® 9 Diode	2"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	G3002	**2FEA5**	G3003	**2FEA8**
Clearance Marker	2"	—	—	—	Maxxima	M09100R	**3VMW5**	—	—
SuperNova®	2½"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	47122	**2CVX7**	47123	**2CVX8**
Hi Count® Multiple-Diode Design	2½"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	G1032	**2FDY8**	G1033	**2FDZ1**
SuperNova® PC Rated	2½"	—	—	—	Grote	47232	**2VNT7**	47233	**2CVY3**
Clearance Marker	2½"	—	—	—	Maxxima	M11300R	**3UKL5**	M11300Y	**3UKP3**
Incandescent									
Optic Lens	2"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45822	**2CVT9**	45823	**2CVU1**
Reflex Lens	2½"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45832	**2CVU2**	—	—
Optic Lens	2½"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45812	**2CVT7**	45813	**2CVT8**
Clearance Marker	2½"	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	—	—	45833	**2CVU3**

Oval Side Clearance Marker Lights


No. 3VNN8


No. 3VMU7


No. 54DE13


No. 22N696


No. 2CVR9


No. 2VNL4


No. 2VNL8


No. 2VNL9


No. 2VNZ2


No. 34TG88

Description	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Yellow Mfr. Model	Yellow Item No.	Red Mfr. Model	Red Item No.
Clearance Marker Lamp											
LED											
MicroNova®	2"	¾"	¾"	—	5UVP7	—	Grote	47963	**2CVZ2**	—	—
Clearance Marker	4"	1"	2"	—	—	—	Maxxima	M23015Y	**3VNN8**	M23015R	**3VNN5**
Clearance Marker Chrome	6½"	¾"	2"	—	—	—	Maxxima	M72270Y	**3VMU7**	—	—
Clearance Marker	6¼"	¾"	1¾"	—	—	—	Maxxima	M30332Y	**54DE13**	M30332R	**54DE12**
Clearance Marker	10¾"	2¾"	4"	—	—	—	Maxxima	M27011Y	**22N696**	—	—
Clearance Marker KIT	6⅜"	2"	2⅜"	—	—	—	Federal Signal	607101-02SB	**45TN84**	—	—
Incandescent											
Optic Lens	4"	1"	2"	—	2VNJ1	21U638	Grote	45263	**2CVT1**	45262	**2CVR9**
Clearance Marker	4"	1"	2"	—	2VNJ1	21U638	Grote	45433	**2VNL5**	45432	**2VNL4**
Low Profile	5"	7/16"	1½"	2CXA4	—	21U538	Grote	45713	**2VNN5**	45712	**2VNN4**
Turtleback® Optic Lens, 2 Bulb	5⅞"	1"	2"	—	—	21U638	Grote	—	—	45462	**2VNL8**
Turtleback	5⅞"	1"	2"	—	—	21U638	Grote	45463	**2VNL9**	—	—
Mid-Turn/Marker Lamp											
LED											
SuperNova®	6"	2"	2½"	2CWW6, 2CWW8, 2VPL5	—	—	Grote	53493	**2VNZ2**	—	—
Side Turn/Side Marker											
Clearance Marker	4½"	1½"	2"	—	—	—	Maxxima	M63122Y	**34TG88**	—	—
Incandescent											
Economy	6½"	1¼"	2¼"	2VPK9, 2CWX9, 2CWV3, 2CVN8, 2VNG9, 2CVN6, 2VNJ3, 2CWV9, 2CWZ7	11W442, 2FDX7, 2VPZ9	21U640	Grote	52193	**2CWB8**	—	—

Square Stop/Tail/Turn Lights


No. 2VRD3


No. 2FED5


No. 45RJ39


No. 2CWG2


No. 2VPA8


No. 2CWF7


No. 2CWG9

Description	Lens Color	Length	Width	Height	Pigtails	Replacement Bulbs	Replacement Lens	Brand	Mfr. Model	Item No.
LED										
SuperNova® Three Stud	Red	5¾"	2⅞"	6¾"	—	21U601	2FDV5	Grote	50920	**2CWB3**
SuperNova® Three Stud, RH	Red	5¾"	2⅞"	6¾"	2CXA6	21U601	2FDV5	Grote	53630	**2VNZ7**
Hi Count® Multiple-Diode Design, LH	Red, Yellow	4⅝"	2"	4⅝"	—	—	—	Grote	G5530	**2VRD3**
Hi Count® Multiple-Diode Design, RH	Red, Yellow	4⅝"	2"	4⅝"	—	—	—	Grote	G5540	**2VRD4**
Hi Count® Three Stud, LH	Red	5¾"	2⅞"	6¾"	—	—	—	Grote	G5092-5	**2FED8**
Hi Count® Three Stud, RH	Red	5¾"	2⅞"	6¾"	—	—	—	Grote	G5082-5	**2FED5**
Optic Lens	Amber, Black, Clear, Red	11 5/16"	1 5/16"	5⅜"	—	—	—	J.W. Speaker	265	**45RJ39**
Three Stud, Dual	Red	5¾"	2⅞"	6¾"	2CXA6	21U601	2FDV5	Grote	53650	**2VNZ9**
Three Stud, LH	Red	5¾"	2⅞"	6¾"	2CXA6	21U601	2FDV5	Grote	53640	**2VNZ8**
Incandescent										
Stop/Turn/Tail Light	Red	5¾"	2⅞"	6¾"	2CXA6	21U647	2FDV5	Grote	53792	**2CWG2**
Stop/Turn/Tail Light	Red	5¾"	2⅞"	6¾"	2CXA6	21U647	2FDV5	Grote	53782	**2CWG1**
RH	Red, Yellow	5 13/16"	2¾"	4½"	—	21U601/21U537	2VPY5, 2FDW2	Grote	55450	**2VPA8**
Three Stud	Red	5¾"	2⅞"	6¾"	—	21U601/21U604	2FDV5	Grote	50972	**2CWB4**
Three Stud	Red	5¾"	2⅞"	6¾"	2CXA6	21U601/21U604	2FDV5	Grote	53762	**2CWF9**
Three Stud, LH	Red	5¾"	2⅞"	6¾"	2CXA6	21U601/21U640	2FDV5	Grote	53712	**2CWF7**
Three Stud, RH	Red	5¾"	2⅞"	6¾"	2CXA6	21U601/21U640	2FDV5	Grote	53702	**2CWF6**
Two Stud, RH or LH	Red, Yellow	4 5/16"	2⅞"	4¾"	—	21U601/21U537	2VPY5, 2FDW2	Grote	55470	**2CWG9**

Round Stop/Tail/Turn Lights


No. 2CWE8


No. 2VNZ1


No. 38ZM49


No. 49XE42

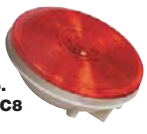

No. 54DE18


No. 22N684


No. 6FDV7


No. 2FEC2


No. 2CWC8


No. 2CWD6


No. 2CWA9

Description	Lens Color	Diameter	Pigtails	Brackets	Replacement Bulbs	Brand	Mfr. Model	Item No.
LED								
SuperNova® 10-Diode Pattern	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	53252	**2CWE8**
SuperNova® 10-Diode Pattern	Red	4 5/16"			—	Grote	52092	**2VNW5**
SuperNova® 10-Diode Pattern	Yellow	4 5/16"			—	Grote	53253	**2CWE9**
SuperNova® Kit, 10-Diode Pattern	Red	4 5/16"	2CWV5, 2VPK9		—	Grote	53462	**2VNZ1**
Stop/Turn/Tail Light	Red	4¼"	3LXG3	—	—	Maxxima	M42120R	**38ZM49**
Stop/Turn/Tail Light	Red	4¼"		49XE47, 49XE55, 3LXG5	—	Maxxima	M42322R	**49XE42**
Stop/Turn/Tail Light	Red	4¼"			—	Maxxima	M56100R	**49XE50**
Stop/Turn/Tail Light	Red	5½"	—	—	—	Maxxima	M42321R	**54DE18**
Stop/Turn/Tail Light	Red	5½"			—	Maxxima	M85417R	**54DE38**
Stop/Turn/Tail Light	Amber, Red	4¼"			—	Maxxima	M42341R/Y	**12P857**
Stop/Turn/Tail Light	Red	7"		5UVZ8	—	Grote	53422	**2CWF4**
Stop/Turn/Tail Light 6 Diode	Red	4 3/10"	3LXG3	3LXG4, 3LXG5, 49XE47, 49XE55	—	Maxxima	M42346R-KIT	**22N684**
Stop/Turn/Tail Light 6 Diode	Red	4¼"			—	Maxxima	M42346R	**6FDV7**
Hi Count®	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	G4002	**2FEC2**
Hi Count®	Red	4 5/16"			—	Grote	G4003	**2FEC5**
Hi Count® Kit	Red	4 5/16"			—	Grote	G4012	**13X011**
Hi Count® Multiple-Diode Design	Red, Yellow	4 5/16"	—	—	—	Grote	G5300	**2VRD2**
Grote Select™	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	54342	**5UVT8**
Incandescent								
Torsion Mount™ II	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ6, 2VPZ2 2VPZ7, 2FDW4	21U640	Grote	52772	**2CWC8**
Torsion Mount™ II	Red	—			21U640	Grote	52782	**2CWD1**
Stop/Turn/Tail Light	Red	4 5/16"	2CWV5, 2CWY4, 2VPL3, 2VPK8, 2CWY6		21U640	Grote	53102	**2CWE4**
Economy	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7		21U640	Grote	52922	**2CWD6**
Economy	Red	5½"	2CWZ9, 2VPN1	—	21U604	Grote	50232	**2CWA9**
Economy	Red	4 5/16"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ6, 2VPZ2 2VPZ7, 2FDW4	21U640	Grote	53012	**2CWD9**

Oval Stop/Tail/Turn Lights


No. 2CWG3


No. 31DG18


No. 49XE56


No. 22N685


No. 6FDY7


No. 45KJ43


No. 2FEE2


No. 2CWB7

Description	Lens Color	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Mfr. Model	Item No.
LED										
SuperNova®	Red	6½"	⅞"	2¼"	2CWV5, 2CWY4, 2VPL3, 2VPK8, 2CWY6	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	—	Grote	53962	**2CWG3**
SuperNova®	Orange	6½"	⅞"	2¼"			—	Grote	53963	**2CWG4**
Stop/Turn/Tail Light	Red	6½"	½"	5 3/16"	—	—	—	Maxxima	M63350R	**31DG18**
Stop/Turn/Tail Light	Red	6⅜"	1¾"	2¼"	3LXG3	3LXG7	—	Maxxima	M63100R	**3JYD4**
Stop/Turn/Tail Light	Red	7 13/16"	13/16"	3 3/16"	—	—	—	Maxxima	M63320R	**49XE56**
Stop/Turn/Tail Light 6 Diode	Red	—	6 13/32"	—	3LXG3	3LXG7	—	Maxxima	M63346R-KIT	**22N685**
Stop/Turn/Tail Light Hybrid S	Red	8"	8 19/64"	—		—	—	Maxxima	M85615R-KIT	**6FDY7**
Hybrid Series	Red, White	8"	13/16"	2"			—	Maxxima	M85616R	**45KJ43**
Hi Count®	Red	6½"	1 3/16"	2⅛"	2CWZ7	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	—	Grote	G6002	**2FEE2**
Grote Select™	Red	6½"	1¼"	2 21/64"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7		—	Grote	54172	**2VPA3**
Incandescent										
Stop/Turn/Tail Light	Red	6¼"	1½"	2¼"	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	21U604	Grote	52892	**2CWD2**
Economy	Red	6½"	1½"	2¼"			21U604	Grote	52182	**2CWB7**


No. 2VPJ6


No. 2VPJ7


No. 2VPJ5


No. 2FEF5


No. 2FEF8

Utility Trailer Lighting Kits

Trailer plugs and accessories on page 962

Mounting	Type	Submersible	Wire Length	Includes	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Mfr. Model	Item No.
LED												
Magnetic	Round	No	20'	2 Lamps, Harness, Hardware	4½"	1 39/64"	6½"	—	—	—	65720-5	**2VPJ6**
Permanent	Square	Yes	4', 25'	2 Lamps, 2 Clearance Markers, Harness, License Bracket, Mounting Hardware	5 13/64"	2 45/64"	4¾"	—	—	—	65330-5	**2VPJ5**
Permanent	Square	Yes	4', 25'	2 Lamps, Harness, License Bracket, Mounting Hardware	5 13/64"	2 45/64"	4¾"	—	—	—	65320-5	**2FEF8**
Permanent	Oval	No	11"	2 Lamps, 2 Brackets, 2 Pigtails, 2 Grommets	6½"	1¼"	2 21/64"	2CWX9	2CVN8, 2FDX7	—	65390-5	**2FEH2**
Permanent	Square	Yes	4', 25'	2 Lamps, License Bracket, Harness, Hardware	4 27/32"	3 1/32"	4 49/64"	—	—	—	65880-5	**411Z72**
Incandescent												
Magnetic	Round	No	20'	2 Lamps, Harness, Hardware	4 3/32"	1 39/64"	6½"	—	—	21U604	65730-5	**2VPJ7**
Permanent	Square	No	25'	2 Lamps, 2 Clearance Markers, Harness, License Bracket, Mounting Hardware	5 13/64"	2 45/64"	4¾"	—	—	21U604/21U639	65370-5	**2FEF5**
Permanent	Oval	No	11"	2 Lamps, 2 Brackets, 2 Pigtails, 2 Grommets	8¼"	1¾"	4 1/16"	2CWX9	2CVN8, 2FDX7	21U604	53082-5	**2FEG8**

Replacement Taillights


No. 21U592


No. 21U601



No. 2FMZ9


No. 2FMB9

Trade No.	Voltage	Watts	Average Life	Item No.	Pkg. Qty.
Stop/Signal					
198	12.8/14VAC	9.52/28.8W	1200/5000 hr.	**21U541**	1
	12.8/14VAC	9.52/28.8W	1200/5000 hr.	**2FLZ5**	10
1034	12.8/14VAC	8.59/23W	200/500 hr.	**21U592**	1
	12.8/14VAC	8.59/23W	200/500 hr.	**2FLW5**	10
1154	6.3/7VAC	5.25/16.57W	200/100 hr.	**21U598**	2
	6.3/7VAC	5.25/16.57W	200/100 hr.	**2FLR3**	10
1156	12.8VAC	26.88W	1200 hr.	**21U601**	2
	12.8VAC	26.88W	1200 hr.	**2FMN3**	10
1156LL	12.8VAC	26.88W	2400 hr.	**21U602**	1
	12.8VAC	26.88W	2400 hr.	**2FMZ3**	10
1156NA	12.8VAC	26.88W	1200 hr.	**21U603**	1
	12.8VAC	26.88W	1200 hr.	**2FLX9**	10
1157	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**21U604**	2
	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**2FMK9**	10
	12.8/14VAC	8.26/26.88W	2000/10,000 hr.	**21U605**	2
1157NA	12.8	8.0	1200/5000 hr.	**21U606**	1
	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**2FLU8**	10
2057	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**21U640**	2
	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**2FLX6**	10
	12.8/14VAC	8.26/26.8W	2400/10,000 hr.	**21U492**	2
2057NA	12.8	7.0	1200/5000 hr.	**21U641**	2
	12.8	7.0	2000/10,000 hr.	**21U493**	2
	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**2FLP7**	10
2357	12.8	8.0	400/5000 hr.	**21U645**	2
	12.8/14VAC	8.26/28.16W	400/5000 hr.	**2FLR4**	10
2357NA	12.8	8.0	400/5000 hr.	**21U644**	2
3057	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**21U647**	2
	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**2FLX8**	10
	12.8/14VAC	6.72/26.88W	2000/10,000 hr.	**21U495**	2
3057NA	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**21U648**	2
	12.8/14VAC	6.72/26.88W	1200/5000 hr.	**2FMZ9**	10
3155	12.8	21	1000 hr.	**21U649**	2
	12.8VAC	20.48W	1000 hr.	**2FLR1**	10
3156	12.8	27	2000 hr.	**21U496**	2
3156 (P27W)	12.8VAC	26.88W	1200 hr.	**21U650**	2
	12.8VAC	26.88W	1200 hr.	**2FLW3**	10
3157	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**21U654**	2
	12.8/14VAC	8.26/26.88W	2000/10,000 hr.	**21U651**	2
3157 (P27/7W)	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**2FMB9**	10
3157NA	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**21U652**	2
	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**21U653**	2
	12.8/14VAC	8.26/26.88W	1200/5000 hr.	**2FLT5**	10
	12.8/14VAC	8.26/26.88W	2000/10,000 hr.	**3EHL8**	10
3457	12.8/14VAC	8.26/28.16W	400/5000 hr.	**21U655**	2
	12.8/14VAC	8.26/28.16W	400/5000 hr.	**2FNA1**	10
	12.8/14VAC	8.26/28.16W	800/10,000 hr.	**21U497**	2
3457NA	12.8/14VAC	8.26/28.16W	400/5000 hr.	**21U656**	2
	12.8/14VAC	8.26/28.16W	400/5000 hr.	**2FNA2**	10
3496	12.8/14VAC	8.26/25.2W	600/5000 hr.	**3EHN2**	1
4114	14/14VAC	8.26/31.2W	4000/10,000 hr.	**3EHN4**	10
4157	12.8/14VAC	8.26/28.54W	3600/10,000 hr.	**2EKW7**	10
	12.8/14VAC	8.26/28.54W	4000/10,000 hr.	**21U657**	2
7225	12.8/12VAC	3.96/28.80W	150/1500 hr.	**2FMX5**	10
7440	12VAC	21W	300 hr.	**2FMX6**	10
7440 (W21W)	12VAC	21W	300 hr.	**21U659**	2
7443 (W21/5W)	12VAC	5/21W	500/1000 hr.	**21U660**	2
7443NA	12VAC	5/21W	500/1000 hr.	**2FNA6**	10
7506	12VAC	21W	150 hr.	**2FMX8**	10
	12VAC	21W	400 hr.	**2FNA7**	10



Slow Moving Vehicle Emblem

13¾" yellow-orange center for daytime warning; outer 1⅝" red reflex border for nighttime warning.

Description	Mfr. Model	Item No.
Acrylic/ABS Material	71152	**2CXA8**


No. 2CVL9


No. 2VNE7

Round-Mounted Reflectors

Diameter	FMVSS	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Screw Mount					
2"	SAE Code A	41012	**2VNF5**	41013	**2VNF6**
2½"	SAE Code A	40092	**2VND5**	40093	**2VND6**
3½"	SAE Code A	40152	**2VND9**	40153-3	**2CVL9**
Armored, Screw Mount					
3⅝"	SAE Code A	40192	**2VNE4**	40193	**2VNE5**
3 61/64"	SAE Code A	40232	**2VNE6**	40233	**2VNE7**


No. 2VND7


No. 2VND1


No. 2VNF8


No. 2VNF3

Stick-On Reflectors

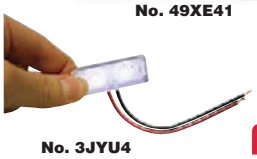
Firm stick backing for instant bond and lasting adhesion.

Lens Shape	Diameter	Length	Width	FMVSS	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Mini, Stick-On								
Rectangular	—	4 1/16"	1 3/16"	SAE Code A	40132	**2VND7**	40133	**2VND8**
Sealed, Stick-On								
Round	3"	3"	3"	SAE Code A	40062	**2VND1**	40063	**2VND2**
Stick-On								
Oval	—	4⅜"	1⅛"	SAE Code A	41032	**2VNF7**	41033	**2VNF8**
Round	2"	2"	2"	SAE Code A	41002	**2VNF3**	41003	**2VNF4**
Round	2½"	2½"	2½"	SAE Code A	40072	**2VND3**	40073	**2VND4**
Round	3"	3"	3"	SAE Code A	40052	**2VNC8**	40053	**2VNC9**


No. 39F799


No. 2VPG1


No. 2VPD6


No. 3JYU4


No. 49XE41


No. 34TG99


No. 49CT68


No. 6FDY1


No. 6FDZ7

FEDERAL SIGNAL
Grote The first name in vehicle safety systems.
Hamsar DIVERSCO A Grakon Company
Maxxima®

LED Utility Lights

Item	Lens Shape	Lens Color	Wiring Connection	Mounting	Lumens	Includes	Height	Length	Width	Mfr. Model	Item No.
LED											
Federal Signal											
Courtesy Light	Round	Clear	Hardwired	Permanent	—	Rubber Grommet, Wire Leads, LED Light Head	5¾"	18¼"	¾"	607141-05	**39F799**
Grote											
Courtesy Light	Rectangular	Clear, White	Hardwired	Permanent	—	—	1"	13¼"	1"	60581	**2VPD5**
	Round	Clear	Hardwired	Permanent	—	Lamp and Mounting	2"	2"	2½"	63561	**2VPG1**
Push Light	Oval	Clear, White	Hardwired	Permanent	—	On/Off Switch	3"	5"	¾"	60591	**2VPD6**
Hamsar											
Courtesy Light	Rectangular	Clear	Hardwired	Permanent	—	Pigtail	2"	5"	¾"	3JYU4	**3JYU4**
Maxxima											
Cargo Light	Rectangular	Clear	Hardwired	Permanent	—	—	1¼"	18¼"	1¼"	M84415-A	**49XE41**
Courtesy Light	Rectangular	White	Hardwired	Grommet	—	Touch Switch	—	—	1"	M84438	**34TG99**
Undercarriage Light	Rectangular	Clear	Hardwired	Permanent	—	Snap-On Polycarbonate Lens and Hidden Mounting Screws	1½"	9"	1"	M84427-A	**49CT68**
Work Light	Round	Clear	Hardwired	Pedestal	—	Mounting Bracket, Adjustable Reflector	—	—	2¾"	M844280-A	**6FDY1**
Incandescent											
Courtesy Light	Rectangular	Clear	Hardwired	Permanent	—	Snap-On Polycarbonate Lens and Hidden Mounting Screws	1½"	1½"	2"	M84407-B	**49CT67**
Utility Light	Round	Clear	Pigtail	Recessed	—	Clear Lens, Grommet	—	—	2"	M09400WCL	**6FDZ7**


No. 13W958


No. 5UVX2


No. 45RJ47


No. 49XE37


No. 22JC93


No. 54DE35


No. 2VPE1


No. 2VPE3

Grote The first name in vehicle safety systems.
J.W. SPEAKER
Maxxima®

Dome Lights

Lens Shape	Volt Bulb	Current Rating	Wiring Connection	Lens Color	Includes	Length	Width	Diameter	Mfr. Model	Item No.
LED										
Grote										
Round	12	0.6A	Pigtail	Clear, White	With Shock-Absorbing and Weatherproof Housing	—	¾"	4²¹⁄₆₄"	61E41	**13W958**
Rectangular	14 to 30	—	Hardwired	Clear, White	—	5¾"	¾"	—	61991	**5UVX2**
J.W. Speaker										
Rectangular	12 to 24	0.14A	Molex Connector	White	—	6½"	1"	—	410	**45RJ47**
Rectangular	12 to 48	0.5A	DT04-2P Connector	White	Switch, 60 min. Timer	6½"	1"	—	412	**45RJ51**
Maxxima										
Round	10 to 30	1.4 to 6A	Hardwired	Clear	—	—	1¼"	5²⁹⁄₃₂"	M84435-A	**49XE37**
Round	—	12V	Hardwired	Red, White	On/Off Switch	—	1"	5²⁹⁄₃₂"	M84434RW	**22JC93**
Round	10 to 30	1.5A	Hardwired	Clear	—	—	1¼"	5²⁹⁄₃₂"	M84434-A	**49XE38**
Round	12.8	0.36A	Pigtail	White	(2) 13" Wires	—	¾"	5½"	M84405-C	**52YP18**
Round	12.8	0.56A	Pigtail	White	(2) 13" Wires	—	¾"	5½"	M84406-C	**52YP19**
Round	12 to 24	110mA, 160mA	Hardwired	White	Thin Low Profile Design	—	1¼"	5²⁹⁄₃₂"	M84435RW	**54DE35**
Incandescent										
Grote										
Round	12	1.04A	Hardwired	Clear, White	With On/Off Switch	—	1½"	5⅞"	61161	**2VPE1**
Rectangular	12	—	Hardwired	Clear, White	3-Way Switch	7"	1 ⅜"	—	61301	**2VPE3**


No. 12D309


No. 22N658


No. 54DE32


No. 54DE40


No. 2CWK8

Maxxima®
Grote The first name in vehicle safety systems.

LED Strip Lighting

Lumens	Voltage	Mounting	Current Rating	No. of LEDs	Light Color	Includes	Length	Width	Mfr. Model	Item No.
Maxxima										
300 lm	12VDC	High Bond Tape	—	27	White	Mounting Clips and Screws	18"	¼"	MLS-1827-A	**12D309**
408 lm	12VDC	High Bond Tape	—	36	White	Mounting Clips and Screws	24"	¼"	MLS-2436-A	**12D310**
612 lm	12VDC	High Bond Tape	—	54	White	Mounting Clips and Screws	36"	¼"	MLS-3654-A	**12P856**
492 lm	12VDC	High Bond Tape	710mA	36	White	Mounting Clips and Screws	24"	¼"	MLS-2436WW-A	**22N658**
738 lm	12VDC	High Bond Tape	1110mA	54	White	Mounting Clips and Screws	36"	¼"	MLS-3654WW-A	**22N662**
782 lm	12VDC	High Bond Tape	1300mA	70	White	Mounting Clips and Screws	45"	¼"	MLS-4569-A	**22N663**
—	12VDC	High Bond Tape	1110mA	54	Red	—	36"	¼"	MLS-3654R	**22N660**
375 lm	12VDC	Permanent	—	54	White	—	18"	⅝"	M84423-B	**54DE32**
750 lm	12VDC	Permanent	—	108	White	—	36"	⅝"	M84425-B	**54DE34**
250 lm	12VDC	High Bond Tape	0.4A	27	White	Ultra Low Amp Draw, Third Wire for Optional Door Control, Moisture Proof Construction	18"	¼"	MLS-1827-A-SW	**54DE40**
640 lm	12VDC	High Bond Tape	1.0A	70	White	Ultra Low Amp Draw, Third Wire for Optional Door Control, Moisture Proof Construction	45"	¼"	MLS-4569-A-SW	**54DE43**
1000 lm	12VDC	Permanent	—	144	White	Center Hold Down Clamp	48"	⅝"	M84429-B	**49XE40**
Grote										
—	12VDC	Clip	—	—	White	50 ft. Roll Comes with (10) Wire Connectors, (50) Mounting Clips and (10) End Caps, LED's Spaced 1 Per Inch	50"	—	60481	**2CWK8**


No. 5DFL9


No. 11C539


No. 11C542


No. 11C546


No. 31EW43

Portable Canopies, Shelters, and Tent

GA GRAINGER APPROVED

- UV blocking

CANOPIES (TOP AND FRAME)

Instant Canopies—Heights for Nos. 11C555, 11C554, and 22EC65 adjust in 3⅛" increments, up to 1 ft. Water, flame, and mildew resistant. Optional Side Wall Kits are sold separately. Optional Combination Door, Side Walls, and Floor Kit is available for Nos. 5NY99 and 11C555. Nos. 5NY99 and 5DFL9 include roller bag and anchor kit. No. 5DFL9 has reflective tape located at key points for higher visibility in low-light conditions. Can be used as an emergency shelter. Optional Solid Wall Kit is sold separately.

Multiuse Canopies—Powder-coated steel frames. Optional Solid Wall Kits for Nos. 11C539 and 11C541 are sold separately. No. 11C543 has 8 legs and 2" dia., 20-ga. frame. No. 11C544 has 10 legs and 2" dia., 20-ga. frame.

Event Canopy—Easy-to-set-up canopy has 2" powder-coated steel frame. Includes 8 white leg covers, 8 foot pads, and elastic ball straps to secure the top/cover to the frame system.

SHELTERS (INCLUDE WALLS)

Peak-Top No. 11C547—Has a powder-coated steel frame. Includes roof cover, bungees, 6 foot pads, and 6 stakes.

Peak-Top No. 4XMA6—Features strong, commercial-grade aluminum frame with twist-lock button sliders that lock the frame in place. Includes a heavy-duty 500-denier polyester top and a double-handled roller bag for easy portability.

Peak-Top No. 11C540—Has a white draw-string cover, 8 legs, and a wall kit with 2 solid and zippered end walls and 2 sidewalls with screened windows. Zippered door is 7.5 ft. W x 6.5 ft. H.

Peak-Top, Heavy-Duty No. 11C542—8-leg A-frame design has interchangeable corner brackets. Features 4-pc. roof truss system that doubles the roof load capacity to a maximum of 3800 lb. Includes bungees, 8 foot pads, 8 stakes, and reinforced wire. Each of the 2 sidewalls contain 3 windows with roll-up window covers. Front and rear door walls have dual zippers and can be rolled up and secured with hook-and-loop straps. When side and end walls are not in use, 4 valances can be attached for a more decorative look.

Dome-Top No. 11C546—Sheds snow and has extra-long walls to protect vehicles and other contents year-round. Front wall has double-zippered, 6.5 ft. W x 6.5 ft. H door. Includes bungees, buckles, 4 brackets, and 8 stakes.

PARTY TENT

Spring-lock powder-coated steel tube frame is easy to assemble; adjustable feet let you set up on uneven ground. Front and back roll-up doors and zippered side doors provide easy access. Vented roof and roll-up windows permit free air circulation. Large windows let in plenty of light. Side wall can be raised to create more space or a sun block, using included 3-pc. side tubing, 3 ropes, and 3 helix pegs. Includes wheeled carry bag for easy transport.

SIDE WALL KITS

Attach to canopies to create shelters.

COMBINATION DOOR, SIDE WALLS, AND FLOOR KIT

Tub-style floor prevents water and pests from entering. Fast, easy clip system attaches to the inside top frame and legs of the canopy. Side walls have nylon zippered screen windows for ventilation. Cover of screened door can be rolled up for additional ventilation. Door features YBS zippers. Includes carrying bag and stakes.

Description	W	L	Center Height	Color	Item No.
Canopies (Top and Frame)					
Instant Canopies	10 ft.	10 ft.	7 ft. to 8 ft.	White	**5NY99** *
	9 ft. 8"	14 ft. 4"	10 ft. 10"	White	**11C555** *
	9 ft. 8"	19 ft. 2"	10 ft. 10"	White	**11C554** *
	11 ft.	9 ft. 8"	10 ft. 2" to 11 ft. 3"	Hi-Vis Orange	**5DFL9** *
	11 ft. 10"	11 ft. 10"	8 ft. 10" to 9 ft. 10"	White	**22EC65**
Multiuse Canopies	10 ft. 8"	20 ft.	9 ft. 9"	White	**11C539**
	10 ft. 8"	26 ft. 7"	9 ft. 9"	White	**11C541**
	18 ft.	20 ft.	11 ft. 4"	White	**11C543**
	18 ft.	26 ft. 7"	11 ft. 4"	White	**11C544**
Event Canopy	18 ft.	20 ft.	11 ft. 4"	White	**11C545**
Shelters (Include Walls)					
Peak-Top Shelter	8 ft.	12 ft.	7 ft. 8"	Gray	**11C547**
	10 ft.	9 ft. 8.5"	10 ft. 4" to 11 ft. 5"	White	**4XMA6**
	10 ft. 8"	20 ft.	9 ft. 9"	White	**11C540**
Peak-Top, Heavy-Duty Shelter	10 ft. 8"	20 ft.	10 ft.	White	**11C542**
Dome-Top Shelter	10 ft.	20 ft.	8 ft.	Gray	**11C546**
Party Tent					
Peak-Top Design with Awning	10 ft.	20 ft.	9 ft. 2"	White	**31EW43** *
Side Wall Kits					
For Use with No. 5NY99, Includes 2 Walls with Zipper				White	**22RP57**
				Orange	**22RP56**
For Use with No. 11C539, Includes 4 Walls				White	**11C548**
For Use with No. 11C541, Includes 4 Walls				White	**11C549**
For Use with No. 22EC65, Includes 1 Solid Wall and 1 Wall with Zipper				White	**22EC66**
Combination Door, Side Walls, and Floor Kit					
For Use With Nos. 5NY99 and 11C555				White Walls, Gray Floor	**11C553**
Canopy Accessories					
Rain Gutter Canopy Connector with Hook-and-Loop-Attachments, For Use with Nos. 5NY99, 11C555, and 11C554				White	**11C557**
Shelter Accessory					
Anchor Kit with 50-ft. Rope and (8) 15" Screw-Type Anchors, For Use with Nos. 11C540 and 11C546				—	**11C552**
Universal Accessories					
Elastic Bungees, Holds Canopy to Frame, Pkg.of 50				White	**11C551**
Weight Bags, Hold up to 25-lb. Sand, Pkg. of 4				Black	**11C556**
Carrying Bag, 15"W x 80"L				Gray	**11C550**

**** Meet CPAI-84 fire rating standards.***

Portable Gas and Diesel Generators

Dayton®

- Electric-start models include dry battery
- 2-yr. warranty
- For outdoor use only
- CARB Compliant

Maintenance-free, brushless alternator provides high-quality power (5 to 6% total harmonic distortion) and extended life. High amp surge capacity is ideal for starting high amp tools. Quiet muffler reduces engine noise. Low oil shut-off protection. All models except No. 2ZRP6 include wheel kits. Nos. 2ZRP8, 2ZRP9, and 6FYA4 include hour meter and idle control. All models are CSA Listed.



Gasoline Engine No. 6FYA4



Diesel Engine No. 36C206

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
Gasoline Honda Engine											
2450	4550	120VAC	20.4	Recoil	5-20R 120VAC Duplex GFCI (1)	2.6 gal.	11.5 hr.	25"	18"	18"	**2ZRP6**
4400	8000	120VAC/240VAC	41.7/20.8	Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	5.7 gal.	11.2 hr.	29"	19¾"	22½"	**38AW97**
5000	9630	120VAC/240VAC	41.7/20.8	Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	7.3 gal.	11.4 hr.	29"	32"	28"	**2ZRP8**
6500	12,000	120VAC/240VAC	54.2/27.1	Electric/ Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	7.3 gal.	11.4 hr.	29"	32"	28"	**2ZRP9**
12,000	19,600	120VAC/240VAC	100.0/50.0	Electric	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1), 14-50R 120/240VAC (1)	13.2 gal.	11.7 hr.	31½"	30½"	37½"	**6FYA4**
Diesel Kohler Engine											
5000	9160	120VAC/240VAC	50.0/25.0	Electric/ Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	2.6 gal.	12.8 hr.	44"	30"	28"	**36C206**



Economy Series No. 6NCL1



Deluxe Series No. 6NCL9



Industrial Series No. 6NCK7

Portable Gas Generators

HONDA GENERATORS

- 3-yr. residential and commercial warranty
- For outdoor use only
- CARB Compliant

Powerful commercial-grade OHV engine runs on regular gasoline—no need to mix with oil. Cast-iron cylinder sleeve for added engine durability. Oil Alert® feature automatically shuts down engine if oil pressure reaches an unsafe level. 120/240V selector switch (except Nos. 6NCK7 and 54EP25) allows full generator wattage through the 120V outlets to power equipment requiring high initial startup. Full frame protection with isolation mounts for added durability. USDA-qualified spark arrestor/muffler.

Economy Series—Digital Automatic Voltage Regulator (DAVR) technology maintains voltage stability within ±1% to protect equipment being powered. All circuits have overload protection.

Deluxe Series—Voltage fluctuations are minimized by the iAVR power feature, which also allows high-amp-load starts with up to 10-sec. voltage increase above the maximum rating. Auto Throttle® technology helps boost run times and increase fuel efficiency, for a lighter unit that produces the same power as most competitive models. Electric start (battery included) with recoil start backup. Include reinforced standing legs, lockable folding handles, and wheel kit.

Industrial Series—No. 6NCK7 features CycloConverter technology and has GFCI protection on duplex receptacle only.

Nos. 6NCL0, 6NCL3, 6NCL8, and 22FD09 feature Auto Throttle technology to help increase fuel efficiency and boost run times, making unit lighter while still able to produce the same power as most competitive models. iAVR power feature minimizes voltage fluctuations and increases voltage above the maximum rating for up to 10 sec.; allows starting of high-amp-load applications. Circuits are GFCI-protected.

All except No. 6NCK7 include lockable folding handles, 2-wheel kit to ease transport, and hanging kit for lifting unit with a crane. Meet OSHA, LA-ETL, NEC, and ANSI Standards (except No. 54EP25 which meets OSHA and LA-ETL Standards).

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Mfr. Model	Item No.
Economy Series												
2500	2800	120VAC	23.3	Recoil	5-15R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1)	2.0 gal.	8.7 hr.	16 29/32"	17 45/64"	18 29/32"	EG2800IXA	**54EP26**
3500	4000	120VAC/240VAC	29.2/14.6	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	6.3 gal.	15.7 hr.	26¾"	20 29/32"	22½"	EG4000CLAT	**6NCL1**
4500	5000	120VAC/240VAC	37.5/18.6	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	6.3 gal.	11.0 hr.	26¾"	20 29/32"	22½"	EG5000CLAT1	**6NCL4**
5500	6500	120VAC/240VAC	45.8/22.9	Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (2), L14-30R 120/240VAC Locking Receptacle (1)	6.3 gal.	10.0 hr.	26¾"	20 29/32"	22½"	EG6500CL1	**6NCL7**
Deluxe Series												
3500	5000	120VAC/240VAC	29.2/14.4	Electric/ Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	6.2 gal.	16.0 hr.	41⅛"	27¾"	30⅜"	EM4000SXAT	**6NCL2**
4500	7000	120VAC/240VAC	37.5/18.6	Electric/ Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	6.2 gal.	11.2 hr.	41⅛"	27¾"	30½"	EM5000SXK3AT	**6NCL5**
5500	7000	120VAC/240VAC	45.8/22.9	Electric/ Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	6.2 gal.	10.4 hr.	41⅛"	27¾"	30⅝"	EM6500SXK2AT	**6NCL9**
Industrial Series												
2600	3000	120VAC	21.7	Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1)	2.7 gal.	9.4 hr.	17¼"	15¾"	18⅞"	EB3000CK2A	**6NCK7**
2500	2800	120VAC	23.3	Recoil	5-20R 125VAC Duplex GFCI (2)	2.0 gal.	8.7 hr.	16 29/32"	17 45/64"	18 29/32"	EB2800IXA	**54EP25**
3500	5000	120VAC/240VAC	29.2/14.6	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	6.2 gal.	16.0 hr.	41⅞"	27¼"	29¼"	EB4000XAT	**6NCL0**
4500	7000	120VAC/240VAC	37.5/18.8	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	6.2 gal.	11.2 hr.	41⅞"	27¼"	29¼"	EB5000XK3AT	**6NCL3**
5500	7000	120VAC/240VAC	45.8/22.9	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-20R 120/240VAC Locking Receptacle (1)	6.2 gal.	10.4 hr.	41⅞"	27¼"	29¼"	EB6500X1AT	**6NCL8**
9000	10,000	120VAC/240VAC	75.0/37.5	Electric	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Lcoking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1), CS6369 50A 125/250VAC Locking Receptacle (1)	8.1 gal.	7.2 hr.	56"	27"	36"	EB10000AH	**22FD09**

Find information on Generator selection at Grainger.com®; search for "Generator".



GP Series
No. 4FPU3



XC Series
No. 53PD05



XP Series
No. 6FDL7



XD Series
No. 39FY95

Portable Gas and Diesel Generators

GENERAC

- Electric-start models include battery (except XD Series)
- For outdoor use only

GP Series—All models offer circuit breaker-protected outlets and never-flat wheels. Low-tone mufflers for quiet operation. 2-yr. limited residential warranty, except No. 493T12 has a 3-yr. limited warranty. No. 493T12 PowerRush™ Advanced Technology delivers over 40% more starting capacity by increasing the electrical current upon demand above rated output. COsense® feature on the OHV engine shuts off and warns user when Carbon Monoxide builds up and low-oil level shutdown protects the engine. Nos. 4FPU2 and 4FPU3 feature idle control and include lifting eye and wheel kit.

XC Series—These generators feature Generac's G-Force Engine, a full pressure-lubed engine with integrated filter, low-oil shutdown, and idle control. Designed for construction sites, they have 12-ga. steel tube frame, forklift-ready lifting pocket, chamfered-edge fuel tank, solid rubber wheels, oversized glove-ready touchpoints, and full Ground Fault Circuit Interrupt protected panel. Oil and first maintenance kit included. Battery included on electric start models. 3-yr. limited residential warranty. 2-yr. limited commercial warranty.

XP Series—Generac OHVI® engine has full-pressure lubrication, spin-on oil filter, low-oil protection, and idle control. TruePower™ technology provides clean, stable power. Rugged construction with impact-resistant cast-metal corners and oversized full-wrap frame tubing. Includes maintenance kit. 3-yr. limited residential warranty. 2-yr. limited commercial warranty.

XD Series—Yanmar LW Series direct-injection diesel engine is more-efficient than gasoline engines and offers long service life; low oil shutdown helps protect against dry-run damage. TruePower provides less than 6% total harmonic distortion for clean power. Durable welded steel frame has a lifting eye for easy transport. 2-year limited residential and commercial warranty.

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Mfr. Model	Item No.
GP Series - Gasoline												
3250	3750	120VAC/240VAC	27.0/13.5	Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1), 14-50R 125/250VAC (1)	3.5 gal.	9.7 hr.	22¾"	22"	21"	5982	**6FDK3**
5500	6875	120VAC/240VAC	45.8/22.9	Recoil	5-20R 120VAC Duplex (2), L14-30R 120/240VAC Locking Receptacle (1)	7.2 gal.	10.0 hr.	27¼"	27"	25"	5939	**6FDK7**
6500	8125	120VAC/240VAC	54.2/27.1	Recoil	5-20R 120VAC Duplex GFCI (2), L14-30R 120/240VAC Locking Receptacle (1)	7.0 gal.	10.5 hr.	27 13/64"	27"	26½"	7680	**493T12**
6500	8125	120VAC/240VAC	54.2/27.1	Recoil	5-20R 120VAC Duplex (2), L14-30R 120/240VAC Locking Receptacle (1)	7.2 gal.	10.0 hr.	27¼"	27"	25"	5946	**6FDK9** *
7500	9375	120VAC/240VAC	62.5/31.3	Electric/ Recoil	5-20R 120VAC Duplex (2), L14-30R 120/240VAC Locking Receptacle (1)	7.5 gal.	12.0 hr.	27¼"	27"	25"	5943	**6FDL0**
15,000	22,500	120VAC/240VAC	125.0/62.5	Electric	5-20R 120VAC Duplex (1), 5-20R 120VAC Duplex GFCI (1), L5-30R 120VAC Locking Receptacle (2), L14-30R 120/240VAC Locking Receptacle (1), 14-50R 120/240VAC (1), 12VDC 10A (1)	16.0 gal.	10.0 hr.	48½"	31"	39½"	5734	**4FPU2**
17,500	26,250	120VAC/240VAC	145.8/72.9	Electric	5-20R 120VAC Duplex (1), 5-20R 120VAC Duplex GFCI (1), L5-30R 120VAC Locking Receptacle (2), L14-30R 120/240VAC Locking Receptacle (1), 14-50R 120/240VAC (1), 12VDC 10A (1)	16.0 gal.	10.0 hr.	48½"	31"	39½"	5735	**4FPU3**
XC Series - Gasoline												
6500	8125	120VAC/240VAC	54.2/27.0	Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	8.5 gal.	14.0 hr.	34 19/64"	28 39/64"	32½"	6823	**53PD01**
6500	8125	120VAC/240VAC	54.2/27.0	Electric/ Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	8.5 gal.	14.0 hr.	34 19/64"	28 39/64"	32½"	6825	**53PD03**
8000	10,000	120VAC/240VAC	66.6/33.3	Electric/ Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	8.5 gal.	14.0 hr.	34 19/64"	28 39/64"	32"	6827	**53PD05**
XP Series - Gasoline												
10,000	12,500	120VAC/240VAC	83.3/41.7	Electric	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1), 14-50R 120/240VAC (1)	9.3 gal.	9.0 hr.	34¾"	29"	34"	5932	**6FDL7**
XD Series - Diesel												
5000	5500	120VAC/240VAC	41.7/20.8	Electric/ Recoil	5-20R 120VAC Duplex GFCI (1), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	12.0 gal.	32.4 hr.	33 5/64"	22½"	25 39/64"	6864	**39FY95** *

** CARB compliant.*



Standard Series
No. 22CN79



Elite Series
No. 6EDX6

Portable Gas Generators

BRIGGS&STRATTON

- Standard series: 2-yr. limited warranty
- Elite series: 3-yr. limited warranty
- For outdoor use only

Low-maintenance generators provide reliable, essential power. All models include Power Surge™ alternator, automatic voltage regulation, circuit breaker protected outlets, and super low-tone muffler. Wheels and fold-down handle for easy mobility. Oil for initial fill, electric start models include battery. Nos. 46C508 and 24W825 have RV outlet.

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Mfr. Model	Item No.
Standard Series												
3500	4,375 W	120V AC	29.0	Recoil	5-20R 120V AC Duplex (1), TT-30R 120V AC RV Outlet (1)	4.0 gal	8.0 hr	25 in	18 in	23"	30736	**46C508**
3500	4,375 W	120V AC	29.0	Recoil	5-20R 120V AC Duplex (1), TT-30R 120V AC RV Outlet (1)	4.0 gal	8.0 hr	25 in	18 in	23"	30743	**24W825** *
5750	7,185 W	120V AC/240V AC	45.8/22.9	Recoil	5-20R 120V AC Duplex (2), 5-20R 120V AC Duplex GFCI (4), L14-30R 120/240V AC Locking Receptacle (1)	7.5 gal	11.5 hr	29 in	26 in	29"	30738	**22CN79**
5000	6,250 W	120V AC/240V AC	41.6/21.0	Recoil	5-20R 120V AC Duplex GFCI (2), L14-30R 120/240V AC Locking Receptacle (1)	5.0 gal	11.0 hr	28 ¾ in	26 in	27"	30744	**24W826** *
Elite Series™												
7000	8,750 W	120V AC/240V AC	58.3/29.1	Electric/ Recoil	5-20R 120V AC Duplex GFCI (2), L14-30R 120/240V AC Locking Receptacle (1)	7.5 gal	9.0 hr	34 ¾ in	23 in	26¾"	30740	**6EDX6**

**CARB compliant.*

Find information on Generator selection at Grainger.com®; search for "Generator".

Portable Gas Inverter Generators

HONDA GENERATORS

- CARB Compliant
- Capable of parallel operations
- 3-yr. residential and commercial warranty, except No. 20KP50 has 2-yr. residential warranty
- For outdoor use only
- Accessories available on Grainger.com®

Super Quiet Series generators have a powerful commercial-grade OHV engine that runs on regular gasoline—no need to mix with oil. The Oil Alert® feature automatically shuts down engine if oil pressure reaches an unsafe level. Eco-Throttle® system increases fuel efficiency by allowing engine to run only as fast as needed for the load. Totally enclosed body helps reduce noise. No. 6NCK8 has recessed wheels and folding handle for greater portability. Rear offset handle provides easier lifting. Nos. 6NCK9 and 20VG46 include battery. No. 20VG46 has iMonitor™ LCD readout to help monitor performance and service diagnosis. Includes wheel kit.



No. 454Z66



No. 20VG46

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
900	1000	120VAC	8.3	Recoil	5-15R 120VAC Duplex (1)	0.6 gal.	5.1 hr.	17-8/10"	9½"	14 29/32"	20KP50
1800	2200	120VAC	18.3	Recoil	5-20R 120VAC Duplex (1)	0.95 gal.	6.5 hr.	20"	11 13/32"	16 11/16"	454Z66
	2200	120VAC	18.3	Recoil	5-20R 120VAC Single (1), L5-30R 120VAC Locking Receptacle (1)	0.95 gal.	6.5 hr.	20"	11 13/32"	16 11/16"	454Z67
	2200	120VAC	18.3	Recoil	5-20R 120VAC Duplex GFCI (1)	0.95 gal.	6.5 hr.	20"	11 13/32"	16 11/16"	454Z68
2600	3000	120VAC	25.0	Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1), 12VDC 8.3A (1)	1.6 gal.	6.5 hr.	24½"	14 9/10"	19¼"	6NCK8
2800	3000	120VAC	25.0	Electric/Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1), 12VDC 8.3A (1)	3.4 gal.	13.0 hr.	25 5/8"	18 9/10"	22"	6NCK9
5500	7000	120VAC/240VAC	58.3/29.1	Electric/Recoil	5-20R 120VAC Duplex GFCI (2), L5-30R 120VAC Locking Receptacle (1), L14-30R 120/240VAC Locking Receptacle (1)	5.1 gal.	12.5 hr.	33½"	27 39/64"	28 13/32"	20VG46

Portable Gas Inverter Generators

GENERAC

- PowerDial™ control integrates Start, Run, and Stop functions
- No. 491N33 is CARB Compliant
- Nos. 39FY96 and 599D42 meet EPA Standards
- Smart Parallel Kit available on Grainger.com®

iQ Series Inverter Generator features a Smart LED dashboard that shows fuel level, remaining runtime, wattage usage, and generator status. Economy Mode operation saves fuel and reduces noise. GP Series Inverter Generators are perfect for all applications from job sites to tailgating. Lightweight for easy transportation. Idle control automatically adjusts engine speed to save fuel and reduce sound emissions. Integrated USB ports make charging mobile devices easy and LED indicators alert you of low oil, overload, and ready-to-use.

Use a Smart Parallel Kit (sold separately) to connect 2 generators directly through the 120V outlets for double the power.



iQ Series
No. 39FY96



GP Series
No. 599D42

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
iQ Series											
1600	2000	120VAC	13.3	Power Dial	5-20R 120VAC Duplex (1)	1.1 gal.	5.7 hr.	20"	12 39/64"	16 29/32"	39FY96
GP Series											
1700	2200	120VAC	14.0	Recoil	5-20R 120VAC Duplex (1), 12VDC 5.0A (1)	1.3 gal.	5.7 hr.	19 45/64"	11-13/62"	17 45/64"	599D42
2300	3000	120VAC	20.0	Recoil	5-20R 120VAC Duplex (1), L5-30R 120VAC Locking Receptacle (1)	1.1 gal.	4.5 hr.	22 13/64"	13 19/64"	18½"	491N33

Portable Gas Inverter Generators

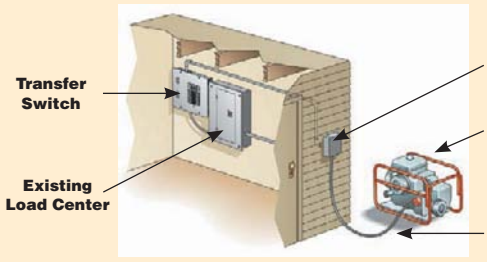
BRIGGS & STRATTON

- 2-yr. limited warranty
- Not CARB Compliant

Powersmart™ Inverter technology produces smoother, consistent, quiet power safe for sensitive electronics. LCD™ Statstation shows total power used, unit hours, and maintenance reminders. USB port charges portable electronics. Parallel connector port connects 2 units together for more power. H-beam handle for easy 2 person lift and carry. No. 31MJ52 has telescoping handle and wheels for easy mobility.


No. 31MJ52

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
1700	2200	120VAC	14.0	Recoil	5-20R 120VAC Duplex (1), 12VDC 5A (1)	1.0 gal.	5.0 hr.	21"	14-13/34"	17 3/8"	45NL55
2600	3000	120VAC	21.6	Recoil	5-20R 120VAC Duplex (2), L5-30R 120VAC Locking Receptacle (1), 12VDC 5A (1), USB (1)	1.5 gal.	5.0 hr.	26"	14"	21"	31MJ52



Portable Generator Accessory Installation Guide

To eliminate the risk of backfeeding the electrical utility during a power outage, isolate the circuits using generator power from the rest of the building. The National Electrical Code (NFPA 70, Article 702.6) mandates that a transfer switch be installed with all standby power systems, including portable generators. Select the circuits most needed during an outage and connect them to the transfer switch in combination with appropriate power inlet boxes and cords.

NOTE: Generac®, Reliance, and Square D generator accessories, including transfer switches, power inlet boxes, cords, and panels are available on Grainger.com®.



Bundled
No. 49LX92



Unbundled
No. 49LX83

Guardian® Series Air-Cooled Automatic Standby Generators and Transfer Switches

GENERAC

- 5-yr. limited warranty
- Min. battery requirement: 525 CCA
- CARB Compliant
- See Grainger.com® for accessories

Aluminum enclosure protects against severe weather and corrosion. Fire rating allows for installation as close as 18" to building structures. Toolless fuel conversion provides easy switching between natural gas and LP fuels. New base eliminates sinking and allows unit to be placed directly on ground (increasing surface area by 9X). WiFi® comes standard on all units for constant monitoring and instant response if service is needed. Bundled unit Nos. 55KE64, 55KE65, and 55KE66 come with 100A, 16-circuit transfer switches. Bundled unit Nos. 55KE68, 55KE69, and 49LX92 come with 200A, whole house transfer switches. Unbundled unit Nos. 55KE62, 55KE63, 55KE67, 49LX82, and 49LX83 do not include a transfer switch.

Note: Transfer Switches (RTS Series) are necessary for operation. For accessories, transfer switches, and larger QT Series Air-Cooled Automatic Standby Generators, see Grainger.com®

						BUNDLED		UNBUNDLED	
kW	Voltage	Amps	L	W	H	Mfr. Model	Item No.	Mfr. Model	Item No.
10 LP/9 NG	120VAC/240VAC	45.0	48"	25"	29"	7172	**55KE64**	7171	**55KE62**
13	120VAC/240VAC	60.0	48"	25"	29"	7174	**55KE65**	7173	**55KE63**
13	120VAC/240VAC	60.0	48"	25"	29"	7175	**55KE68**	—	—
16 LP/16 NG	120VAC/240VAC	70.0	48"	25"	29"	7177	**55KE66**	7176	**55KE67**
16 LP/16 NG	120VAC/240VAC	70.0	48"	25"	29"	7178	**55KE69**	—	—
20 LP/18 NG	120VAC/240VAC	83.3/75.0	48"	25"	44"	—	—	7038	**49LX82**
22 LP/19 NG	120VAC/240VAC	91.7/81.3	48"	25"	44"	7043	**49LX92**	7042	**49LX83**



No.
20YR52



No.
38NF74

Generator Sizing Guidelines

To start an electric motor, a generator requires **2 to 3 times** its nameplate amperage or wattage. If the electrical current demand on the generator is of long duration, **the system can overload.** As a preventative measure, **there are five steps to selecting the right size generator:**

1. Calculate total wattages of all appliances to be operated at once
2. Determine volt-amperes (wattage) requirement of motor
3. Find total watts and VA to get total requirements
4. To allow for anticipated future needs, add 25% to Step 3 total
5. Refer to data charts for the unit that meets your total load criteria

For further details read the full article, "Generator Sizing Guidelines" at **grainger.com/generator-sizing**

GENERAC

Protector™ Series Liquid-Cooled Automatic Standby Generators

Quiet-running generators with aluminum housing feature improved water ingress protection and electric connections to stand up to severe weather conditions. Options for additional features help address individual applications, such as advanced controls for instant monitoring. Include oil drain extension, radiator drain extension, battery charge alternator, flex fuel line, and fan/belt guards.

Note: Transfer Switches (RTS Series) are necessary for operation. For accessories, transfer switches, and larger QT Series Liquid-Cooled Automatic Standby Generators, see Grainger.com®

						120/240VAC 1-PHASE			120/240VAC 3-PHASE			120/208VAC 3-PHASE			277/480VAC 3-PHASE		
kW	L	W	H	CARB Compliant		Mfr. Model	Amps	Item No.	Mfr. Model	Amps	Item No.	Mfr. Model	Amps	Item No.	Mfr. Model	Amps	Item No.
Diesel																	
15	81"	31"	50"	Yes		RD01523ADAE	62.0	**20YR51**	RD01523JDAE	45.0	**32PL10**	RD01523GDAE	52.0	**32PL09**	—	—	—
20	81"	31"	50"	Yes		RD02023ADAE	83.0	**20YR52**	RD02023JDAE	60.0	**32PL12**	RD02023GDAE	69.0	**32PL11**	—	—	—
30	96"	35"	56"	Yes		RD03024ADAE	125.0	**20YR53**	RD03024JDAE	90.0	**32PL14**	RD03024GDAE	104.0	**32PL13**	RD03024KDAE	45.0	**32PL15**
48	96"	35"	56"	Yes		RD04834ADAE	200.0	**32PL16**	—	—	—	—	—	—	—	—	—
50	96"	35"	56"	Yes		—	—	—	RD05034JDAE	150.0	**32PL17**	RD05034GDAE	173.0	**20YR54**	RD05034KDAE	75.0	**32PL18**
Liquid Propane																	
60	76 29/32"	33 1/2"	40 39/64"	No		RG06024AVAX	250.0	**38XD87**	RG06024JVAX	180.0	**38NG45**	RG06024GVAX	208.0	**38NG41**	RG06024KVAX	90.0	**38NG49**
Liquid Propane/Natural Gas																	
22 LP/22 NG	62 29/32"	29"	29 1/16"	No		RG02224ANAX	92.0	**38NF73** *	RG02224JNAX	66.0	**38NF75** *	RG02224GNAX	76.0	**38NF74** *	—	—	—
25 LP/25 NG	62 29/32"	29"	29 1/16"	No		RG02515ANAX	104.0	**38NF76** *	RG02515JNAX	75.0	**38NF80** *	RG02515GNAX	87.0	**38NF78** *	—	—	—
27 LP/25 NG	62 29/32"	29"	29 1/16"	No		—	—	—	RG02724JNAX	81.0	**38NF84** *	RG02724GNAX	94.0	**38NF83** *	—	—	—
30 LP/30 NG	62 29/32"	29"	29 1/16"	No		RG03015ANAX	125.0	**38NF85** *	RG03015JNAX	90.0	**38NF89** *	RG03015GNAX	104.0	**38NF87** *	—	—	—
32 LP/32 NG	76 29/32"	33 1/2"	40 39/64"	No		RG03224ANAX	133.0	**38NF91** *	RG03224JNAX	96.0	**38NF93** *	RG03224GNAX	111.0	**38NF92** *	RG03224KNAX	48.0	**38NF94** *
36 LP/36 NG	76 29/32"	33 1/2"	40 39/64"	No		RG03624ANAX	150.0	**38NF95** *	RG03624JNAX	125.0	**38XD89**	RG03624GNAX	125.0	**38NF97** *	RG03624KNAX	125.0	**38XD88**
38 LP/38 NG	76 29/32"	33 1/2"	40 39/64"	No		RG03824ANAX	158.0	**38NG02** *	RG03824JNAX	114.0	**38NG04** *	RG03824GNAX	132.0	**38NG03** *	RG03824KNAX	57.0	**38NG05** *
45 LP/45 NG	76 29/32"	33 1/2"	40 39/64"	No		RG04524ANAX	148.0	**38NG06** *	RG04524JNAX	135.0	**38NG14** *	RG04524GNAX	156.0	**38NG10** *	RG04524KNAX	68.0	**38NG18** *
45 LP/45 NG	76 29/32"	33 1/2"	40 39/64"	Yes		—	—	—	RG04524JNAC	135.0	**38NG15** *	RG04524GNAC	156.0	**38NG11** *	RG04524KNAC	68.0	**38NG19** *
Natural Gas																	
48	76 29/32"	33 1/2"	40 39/64"	Yes		RG04854ANAC	200.0	**38NG23**	RG04854JNAC	150.0	**38NG31**	RG04854GNAC	173.0	**38NG27**	RG04854KNAC	75.0	**38NG35**
48	76 29/32"	33 1/2"	40 39/64"	No		RG04854ANAX	200.0	**38NG22**	RG04854JNAX	150.0	**38NG30**	RG04854GNAX	173.0	**38NG26**	RG04854KNAX	75.0	**38NG34**
60	76 29/32"	33 1/2"	40 39/64"	No		RG06024ANAX	250.0	**38NG37**	RG06024JNAX	180.0	**38NG43**	RG06024GNAX	208.0	**38NG39**	RG06024KNAX	90.0	**38NG47**

Field convertible to LP.

Find Air/Oil Filters, Pneumatic Mufflers, and Spark Plugs at Grainger.com®.



Commercial V-Twin Series No. 20KC43

BRIGGS & STRATTON

Gasoline Engines

Rotation is CCW. Mixer engine No. 12V818 features internal gear box with 6:1 reduction. For outdoor use only; not designed for recreational vehicle use.

XR550 Professional Series™—Dura-Bore™ cast-iron sleeve withstands wear and abuse. No. 12V872 is 4000 rpm; No. 12V817 is 3600 rpm; and No. 12V818 is 3600 rpm.

900 Series™—OHV design with Dura-Bore™ cast-iron sleeve and Dual-Clean™ air cleaner. 3800 rpm.

CR950 Series™—Features reliable performance with cast-iron Dura-Bore™ sleeve, Magnetron® Electronic Ignition, and dual ball bearing. 3300 rpm.

XR1450 Professional Series™—Provides high performance and extended durability with OHV design and Dura-Bore™ cast-iron sleeve. 3750 rpm.

XR2100 Professional Series™—3600 rpm engine designed for frequent use in demanding work environments. Features 21 gross torque (ft.-lb.), cast-iron sleeve, and pleated paper air filter. 3600 rpm.

Vanguard™ Horizontal Series—Includes TransportGuard™ fuel/ignition shut off system with commercial carburetor and canister-style air cleaner. 3600 rpm.

725EXi Series™—Walk-behind mower engine allows you to never change the oil. Just check oil and add. Features larger angled fuel neck and tool-less access to air cleaner for easy maintenance. ReadyStart™ starting system requires no prime and no choke. 3200 rpm.

Commercial V-Twin Series™ —5-step debris management system has chopping fan shreds debris and reduces oil temperature. Features oil pump, cast-iron sleeve, electronic ignition, cyclonic air filter, OHV design, and automotive-style starting with EFM. 27.0 gross HP, 3600 rpm.

Vanguard™ Vertical Series—Features float feed carburetor, Dual-Clean™ air cleaner, and Dura-Bore™ cast-iron cylinder sleeve. 18.0 gross HP, 3600 rpm.

Gross Torque	Shaft Length	Shaft Dia.	Mfr. Model	Item No.	
Horizontal					
XR550 Professional Series					
5.5 lb.-ft.	2 27/64"	5/8"	083132-1036-F1	**12V872**	
5.5 lb.-ft.	2 27/64"	3/4"	083132-1035-F1	**12V817**	
5.5 lb.-ft.	1 13/16"	3/4"	083152-1049-F1	**12V818**	*
900 Series					
9.5 lb.-ft.	2 27/64"	5/8"	130G32-0244-F1	**55EP70**	
CR950 Series					
9.5 lb.-ft.	2 27/64"	3/4"	13R232-0001-F1	**52YX57**	
XR1450 Professional Series					
14.5 lb.-ft.	3 31/64"	1"	19N132-0035-F1	**35ZD40**	
14.5 lb.-ft.	2 1/2"	3/4"	19N132-0051-F1	**35ZD38**	
14.5 lb.-ft.	2 49/64"	1"	19N132-0055-F1	**35ZD39**	
XR2100 Professional Series					
21.0 lb.-ft.	3 31/64"	1"	25T237-0045-F1	**35ZD41**	
Vanguard Horizontal Series					
26.3 lb.-ft.	2 29/32"	1"	356447-3079-G1	**1TKD9**	
30.6 lb.-ft.	2 29/32"	1"	385447-3075-G1	**1TKE2**	
—	2 49/64"	1"	19L232-0036-F1	**20K866**	
Vertical					
725EXi Series					
7.3 lb.-ft.	3 5/32"	7/8"	104M02-0021-F1	**52YX58**	
Commercial V-Twin Series					
39.4 lb.-ft.	4 19/64"	1 1/8"	49T877-0004-G1	**20KC43**	
Vanguard Vertical Series					
28.6 lb.-ft.	3 5/32"	1"	356776-0006-G1	**1TKD8**	

** For use in mixer applications.*

KOHLER®

Gasoline and Diesel Engines



Command PRO® No. 6VMW2

For outdoor use only; not designed for recreational vehicle use.

COURAGE® UTILITY GASOLINE ENGINE

- CARB Compliant

Single-cylinder OHV model with cast-iron cylinder liner and in-line fuel filter. Engine oil can be added or drained from either side of the engine. 3600 rpm.

COMMAND PRO® GASOLINE ENGINES

Feature electronic ignition, hardened crankshaft journals, and a self-relieving choke carburetor. EPA Compliant.

6.6 to 7.7 Gross Torque—4-cycle, OHV engine. Cast-iron cylinder liner, aluminum block. 3600 rpm. Pleated paper encased filter with perforated metal/foam precleaner.

9.2 to 20.4 Gross Torque—Single cylinder, OHV engine. Nos. 16X887, 11M961, 11M962, and 11M963 are 4000 rpm. Nos. 11Z373 and 6VMW2 are 3600 rpm. All have low-oil shutdown feature. Pleated paper encased filter with perforated metal/foam precleaner.

- CARB Compliant

27.7 to 51.1 Gross Torque—V-twin cylinder, OHV engine. 3600 rpm. Dual-element air filter, except Nos. 24TM20 and 24TM21 have heavy-duty canister-style filters.

DIESEL FOUR-STROKE ENGINES

- Tier 4

All models feature direct fuel injection, fuel filter, full-pressure lubrication, and a reborable cast-iron cylinder liner. No. 11K750 is single cylinder with an internal oil filter, electronic shutdown fuel valve, control panel, and counterbalanced crankshaft. 3600 rpm.

Shaft Orientation	Gross Torque	Shaft Length	Shaft Dia.	Starter Type	Mfr. Model	Item No.
Gasoline Engines						
Courage® Utility						
Horizontal	9.5	2 27/64"	3/4"	Recoil	PA-SH265-3011	**11K737**
Command PRO® 6.6 to 7.7 Gross Torque						
Horizontal	6.6	2.42"	0.75"	Recoil	PA-CH245-3152	**404M80**
Horizontal	7.7	2.42"	0.75"	Recoil/Electric	PA-CH255-3031	**404M81**
Horizontal	7.7	2.42"	0.75"	Recoil	PA-CH255-3152	**404M82**
Command PRO® 9.2 to 20.4 Gross Torque						
Horizontal	9.2	2 27/64"	3/4"	Recoil	PA-CH270-3152	**16X887**
Horizontal	9.2	2 27/64"	3/4"	Recoil/Electric	PA-CH270-3031	**11M961**
Horizontal	12.5	3 1/2"	1.00"	Recoil	PA-CH395-3149	**11M962**
Horizontal	12.5	3 1/2"	1.00"	Recoil/Electric	PA-CH395-3031	**11M963**
Horizontal	20.4	3 1/2"	1.00"	Recoil	PA-CH440-3149	**11Z373**
Horizontal	20.4	3 1/2"	1.00"	Recoil/Electric	PA-CH440-3031	**6VMW2**
Command PRO® 27.7 to 51.1 Gross Torque						
Horizontal	27.7	4"	1 1/8"	Electric	PA-CH620-3100	**24TM15**
Horizontal	29.9	1 29/64"	1 7/16"	Electric	PA-CH640-3202	**24TM16**
Horizontal	32.8	4 29/64"	1 7/16"	Electric	PA-CH680-3002	**24TM17**
Horizontal	36.5	4 29/64"	1 7/16"	Electric	PA-CH742-3100	**24TM20**
Vertical	36.5	3 5/32"	1 1/8"	Electric	PA-CV740-3001	**24TM18**
Horizontal	51.1	4 29/64"	1 7/16"	Electric	PA-CH980-3000	**24TM21**
Diesel Four-Stroke Engines						
Horizontal	13.3	3 5/8"	1.00"	Recoil/Electric	PA-KD4402001B	**11K750**

HONDA ENGINES

GX Series Gasoline Engines



270cc No. 23PF68

- Horizontal shaft
- Dual-element air cleaner
- CARB Compliant
- 3-yr. warranty

Overhead Valve (OHV) commercial-grade engines offer greater fuel efficiency, automatic mechanical decompression system, and precise intake and exhaust control to ensure fast and reliable starts. Ball bearing-supported crank shaft and cast-iron cylinder sleeve provide greater durability and long life. Oil alert system helps prevent engine damage due to inadequate oil. Nos. 23PF70 and 23PF75 feature Cyclone Air Cleaner system that decreases the service intervals for air filter maintenance.

Starter Type	Shaft Length	Shaft Dia.	Mfr. Model	Item No.
118cc				
Recoil	2 43/100"	3/4"	GX120QX2	**23PF63**
163cc				
Recoil	2 43/100"	3/4"	GX160QX2	**23PF64**
Recoil	2 43/100"	5/8" x 18" UNF	GX160TX2	**23PF66**
Electric	2 43/100"	3/4"	GX160QXE2	**23PF65**
196cc				
Recoil	2 43/100"	3/4"	GX200QX2	**23PF67**
270cc				
Recoil	3 13/25"	1.0"	GX270QA2	**23PF68**
Recoil	3 13/25"	1.0"	GX270QXC9	**23PF70**
Electric	3 13/25"	1.0"	GX270QAE2	**23PF69**
389cc				
Recoil	3 13/25"	1.0"	GX390QA2	**23PF72**
Recoil	3 13/25"	1.0"	GX390QXC9	**23PF75**
Electric	3 13/25"	1.0"	GX340QAE2	**23PF71**
Electric	3 13/25"	1.0"	GX390QAE2	**23PF73**
Electric	3 13/25"	1.0"	GX390QNE2	**23PF74**

ARIENS SNAPPER

Commercial-Duty Zero-Turn Mowers



No. 55JE65

ZERO-TURN MOWERS

A wide cutting width and high-performance engines propel these mowers to finish large jobs quickly. Fully welded steel frames with side discharge.

Edge—This mower has a 660cc Kohler 6000 series engine and foot-operated deck lift. Features durable 34" stamped deck constructed of 12-gauge steel. High-back seat with springs with sealed ball bearings.

IKON XD—Commercial-grade mower has fully fabricated and foot-operated welded deck. Features 726 cc Kawasaki® FR691 engine. Hydro-Gear® EZT transaxles offer increased torque and load capacity. Two independent steering levers for easy manuverability. Padded high-back seat with arm rests and large tires. Dial-operated cut height with 13 cutting positions.

360Z—Designed to easily maneuver around yards easily, the 360Z includes commercially-inspired features such as a fully-welded steel frame, thick-walled front axle, easy access maintenance points and durable steel mower deck to ensure a great cut. Also features integrated rear cargo bed to provides on-the-go versatility and convenience.

Apex—Features a fully tubular steel frame, self-adjusting belt, high-back padded seat and armrests with a foot-operated deck lift. Designed with a powerful 23 hp 726 cc Kawasaki® FR691 engine. Also features 54" fabricated 10-gauge steel deck.

ACCESSORY

Mower Cover—Provides all-weather protection for lawn and tractor mowers. Shields against sun UV damage, rain, dust, birds, and tree sap. Elasticized bottom hem for a quick fit.

HP	Cutting Width	Cutting Height	Max. Speed	Brand	Item No.
Zero Turn Mowers					
Edge					
19	34"	1½" to 4½"	6 mph (Forward), 3 mph (Reverse)	Ariens	**55MJ67**
19	42"	1½" to 4½"		Ariens	**55MJ68**
IKON HD					
23	52"	1½" to 4½"	7 mph (Forward), 3 mph (Reverse)	Ariens	**55MJ70**
360Z					
25	52"	1½" to 4½"	8 mph (Forward), 4 mph (Reverse)	Snapper	**55JE65**
Apex					
23	52"	1" to 5"	8 mph (Forward), 4 mph (Reverse)	Ariens	**55MJ73**

Description	For Use With	Item No.
Zero Turn Mower Accessory		
Mower Cover	For Use With No. 55MJ73	**55EP68**

ARIENS

Walk-Behind Mowers



No. 22PN92

These walk-behind mowers start easy and cut lawns cleanly. Designed with heavy-duty steel cutting deck with powder-coated finish to resist corrosion. Single point cut height adjustments are quick and simple. 3-in-1 cutting system flexes seamlessly between bagging, mulching, or side discharge option. No. 22PN93 features sefl-propelled rear wheel drive for superior tracking in all cutting conditions.

Description	Cutting Width	Cutting Height	Item No.
Push Mower	21"	1 to 4"	**22PN92**
Self-Propelled Mower	21"	1 to 4"	**22PN93**

EGO POWER SYSTEM Makita greenworks

Battery-Powered Mowers



No. 49AY33

EGO™—Rechargeable electric mowers give you the power of a gas engine, without the noise or fumes of gasoline, and with the freedom of movement of cordless. 45-min. of cutting time on a single charge. LED headlights let you mow any time of day and 3-in-1 functionality lets you easily switch between mulch, bag, or side discharge functions. Easy push-button starting. Folds flat for easy cleaning and storage. Available in self-propelled versions.

Makita®—No. 54JK17 delivers 3600 rpm. Features 13 cutting height adjustments, smooth start ups, aerodynamic cover, and built-in ball bearings for required push force. The 13-gal. grass catcher bag features a grass level indicator. Extreme Protection Technology (XPT™) for improved dust and water resistance.

Greenworks Pro—Designed with Smart Cut technology to improve performance and extend run time. Digitally controlled brushless motor provides greater efficiency and higher performance. Unit has a 21" steel deck with 3-in-1 design for mulch, side discharge, or rear bag capability.

Cutting Width	Cutting Height	Battery Amperage	Battery Voltage	Includes	Brand	Item No.
Push Mowers						
21"	1½" to 4"	—	56	Mulch Plug, Side Discharge Chute and Bag	EGO	**49AY33**
21"	1½" to 4"	5.0	56	Rapid Charger, Battery, Mulching Insert, Side Discharge Chute, Bag	EGO	**49AY35**
17"	13/16" to 2 5/16"	3.0/4.0/5.0	18	Rear Bag	Makita	**54JK17**
21"	1 3/8" to 3 3/4"	2.0	80	Bag, Mulch Plug, Side Discharge Chute, 80V, (2) 2 .0Ah Lithium-Ion Batteries, Rapid Charger	Greenworks Pro	**52KD50**
Self-Propelled Mowers						
21"	1½" to 4"	—	56	Mulch Plug, Side Discharge Chute and Bag	EGO	**49AY34**
21"	1½" to 4"	7.5	56	Mulch Plug, Side Discharge Chute, Bag, 7.5Ah Battery and 550W Charger	EGO	**49AY36**

Description	Brand	Item No.
Power+ Accessories		
Power+ Series, 56V, 7.5Ah Li-Ion Battery	EGO	**54YP23**
Rapid Charger	EGO	**38ZE14**
Charger	EGO	**38ZE12**

BRIGGS & STRATTON HONDA Power Equipment

Mulching Walk-Behind Mowers



No. 49U931

Mulching option leaves fine clippings on the lawn to retain moisture and provide nutrients while reducing removal time and expense.

Briggs & Stratton®—Tough, high-performance mowers are built to provide you with years of reliable service, with an easy-start engine and rugged 14-ga. steel deck. The adjustable cutting height helps you keep grass beautiful and healthy, and a 3-in-1 cutting system lets you easily change from mulch to bag to side-discharge.

Self-propelled mower No. 33RW85 has rear-wheel drive with a reliable disc-drive transmission.

Honda®—MicroCut® twin-blade system uses 4 cutting surfaces to make ultra-fine clippings for superior mulching and bagging. Offers 8 mowing heights from ¾" to 4". Roto-Stop® blade stop lets you step away from the mower to empty the bag or clear items out of the way without stopping and restarting the engine.

Self-propelled, hydrostatic cruise control transmission offers precise speed control from 2 to 4 mph, to change and maintain the right speed for mowing conditions. Rugged 21", 16-ga. heavy-duty steel deck with front bumper and edge guards. Includes 2½-bushel bag, mulching plug, and bag frame.

Description	Cutting Width	Cutting Height	Item No.
Briggs & Stratton®			
Professional Series Push with 190cc Engine	21"	1¼" to 4"	**33RW84**
Professional Series Self-Propelled with 160cc Engine	21"	1¼" to 4"	**33RW86**
Professional Series Self-Propelled with 190cc Engine	21"	1¼" to 4"	**33RW85**
Honda®			
Commercial Series with GVX160 Engine	21"	¾" to 4"	**49U931**

Battery-Powered Electric Trimmers

These powerful trimmers help you make short work of thick brush, without the noise, fumes, or expense of gas-powered models. Include 0.08"-dia. cutting line, but can be used with larger diameter line, as well. Line length can be easily adjusted via an integral bump feed. Higher amperage provides longer run times.

Note: For accessories including Batteries, Charger, Trimmer Spools, Trimmer Strap, and Trimmer Lines, see Grainger.com®.

Charge Time	Cutting Width	Line Dia.	Shaft Type	Shaft Length	Includes	Brand	Mfr. Model	Item No.
18V Battery								
1.5 hr.	10¼"	0.065"	Telescoping	48½" to 56½"	Trimmer Head, Nylon Cord	Makita	XRU02Z	**52AZ29**
String Trimmer								
1.5 hr.	14" to 16"	0.080	Straight	5"	High Demand Battery, Rapid Charger	Milwaukee	2725-21HD	**49JU94**
	16"	0.080"	Straight	60"	—	Milwaukee	2725-20	**53KK05**
45 min.	11¾"	0.095"	Straight	70½"	Battery, Charger, Shoulder Strap, Goggles	Makita	XRU11M1	**436L88**
20V Battery								
1.5 hr.	13"	0.080"	Straight	54"	5Ah Lithium Ion Battery, Standard Charger 0.080", line Rewound In Spool	DeWalt	DCST920P1	**48ZF01**
40V Battery								
2 hr.	15"	0.080"	Straight	55"	40V, 6.0Ah Lithium-Ion Battery, Battery Charger	DeWalt	DCST990H1	**40CA26**
56V Battery								
	15"	0.095"	Straight	53"	Cutting Line, Hex Wrench	EGO	ST1500F	**400F49**
30 min. to 1 hr.	15"	0.095"	Straight	53"	Cutting Line, Hex Wrench, 56V, 2.5Ah Battery, Charger	EGO	ST1502F	**400F50**
	15"	0.095"	Straight	48"	Hex Wrench, Multi-Function Wrench, (2) Cotter Pin, Battery, Charger	EGO	MHC1502	**413J87**
60V Battery								
2.5 hr.	15"	0.080"	Straight	45"	Battery, Charger, Auxiliary Handle, Guard	DeWalt	DCST970X1S	**53JH20**
Battery Not Included								
—	13"	0.080"	Straight	48"	25 ft. x 0.080" Prewound Spool	DeWalt	DCST920B	**48ZE99**
	15"	0.080"	Straight	45"	—	DeWalt	DCST970B	**458P06**





Gas-Powered Trimmers

Note: For additional accessories including Trimmer Lines, Trimmer Heads, and Blade Conversion Kit, see Grainger.com®.

ECHO®—Models feature easy-to-use ergonomic controls, powerful 2-stroke engines, i-30™ starting system, digital ignition, and purge bulb. Toolless air filter cover. Ergonomic, adjustable U-handle helps increase operator comfort and control.

Makita®—Features 4-stroke, multiposition engine. Dual-stage air filter is replaceable and easy to access. Antivibration handle and bump-feed head. No. 13L116 has a fast-turning head, and No. 49U821 has a high-torque gear case designed to handle heavy grasses.

Engine Displacement	Shaft Type	Shaft Length	Cutting Width	Line Dia.	Mfr. Model	Item No.	
ECHO®							
21.2cc	Curved	48"	16"	0.080"	GT-225	**44X194**	
	Straight	59"	17"	0.095"	SRM-225	**44X198**	*
25.4cc	Straight	59"	17"	0.095"	SRM-2620T	**425W12**	
	Straight	59"	17"	0.095"	SRM-266	**447P85**	
Makita®							
25.4cc	Straight	57"	17"	0.095"	EM2650LH	**13L116**	*
	Straight	57"	17"	0.095"	EM2652LHN	**49U821**	

Feature Antivibration Handle.



Gas-Powered Brush Cutters and Mowers

Note: For accessories including Brush Blades and Trimmer Line, see Grainger.com®.

HANDHELD

ECHO®—Each brushcutter has bicycle-style "U" handle for control and easy access to the throttle and stop switch. Commercial-grade cutting heads with blade conversion kits, making them blade convertible. No. 447P92 features Speed-Feed® cutting heads and flex cable drive shafts. No. 447P92 is extremely lightweight and has a toolless adjusting U-handle that folds for storage. Brush blades sold separately.

Makita®—Features a fuel-efficient engine with automatic decompression for quick-and-easy starting. Oil fill port and drain plug are easy to access. Includes shoulder harness and brush cutter blade.

WALK-BEHIND

Billy Goat®—Cuts through weeds over 6 ft. tall, as well as saplings. Features 3-speed transaxle with reverse, reinforced blade spindle, and protected rear-mounted clutch and steel plow-style handles. Angled rear discharge deck eliminates packing and wind rows.

GENERAC®—Brush Mower No. 494C90 is designed with a 26" mowing deck with a heavy-duty brush blade for cutting extra tall and dense growth. Features a disc-brake power steering system for easy maneuverability. Gear-driven transmission locks in the ground speed leaving your hands free to steer the machine across uneven terrain. This mower also has puncture-resistant tires with lugged treads for improved traction. Brush Trimmer No. 494C89 has a powerful engine that's easy to start. Built with offset frame that makes trimming along foundations, fence lines, and other obstacles easy. Heavy-duty cutting cords are reliable and help prevent tangles. Cord included; changes are quick and easy.

Description	Cutting Width	Mfr. Model	Item No.
Handheld			
ECHOmatic Pro™			
Brush Cutter with 42.7cc, 2-Cycle Engine	10"	SRM-410U	**44X145**
ECHO® ProXtreme Series™			
Brush Cutter with 25.4cc, 2-Cycle Engine	17"	SRM-2620U	**447P92**
Makita®			
Brush Cutter with 25.4cc, 4-Cycle Engine	9"	EM2650UH	**13L117**
Walk-Behind			
Billy Goat® Self-Propelled			
Brush Cutter with Honda® GXV 390cc Engine	26"	BC2600HM	**5NLJ8**
GENERAC® PRO Push			
Brush Mower with Generac G-Force 452cc Engine	26"	AT45026GENG	**494C90**
Trimmer Mower with Generac G-Force 275cc Engine	22"	TR45080GMNG	**494C89**


No. 425W09


No. 6MYC0

Gas-Powered Blowers

ECHO®—Feature rotational control to help reduce operator fatigue. No. 44X133 has rubber top-handle grip with secondary handles for all-position operation and flared-end pipe for moving heavy or wet debris. No. 425W09 has a curved blower tube and shoulder harness attachment that helps reduce user fatigue. Easy access variable cruise control button located on curved handle. No. 44X141 is a combination blower, shredder/mulcher, and vacuum. 4-blade shredding mechanism provides 12:1 debris reduction. Includes 35"L intake tube for longer reach and zippered collection bag. Nos. 44X133 and 44X141 are CARB and EPA Compliant. No. 425W09 is CARB Compliant.

Makita®—Compact and lightweight model features a commercial-duty engine with variable speed control. Fuel system oil mix to gasoline is not required. Automatic engine decompression allows quicker and easier starts.

Description	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
ECHO®					
Blower, 2-Stroke, 25.4cc	354 cfm	191 mph	64	PB-255LN	**44X133**
	453 cfm	170 mph	69.3	PB-2520AA	**425W09**
Blower/Mulcher, 2-Stroke, 25.4cc	391 cfm	165 mph	70	ES-250AA	**44X141**
Makita®					
Blower, 4-Stroke, 24.5cc	356 cfm	145 mph	67	BHX2500CA	**6MYC0**


No. 44X139


No. 493W70


No. 52WT54


No. 446N33

Gas- and Battery-Powered Backpack Blowers

ECHO®—Engines offer cruise control. Blowers allow wide-angle tube rotation for optimum mobility. Padded backrest and shoulder straps help minimize fatigue. L-style frame helps reduce impact damage, and Posi-loc™ tubes provide a secure connection. No. 44X139 has a vented back pad that allows air circulation in hot weather.

Makita®—Commercial-duty engine has decompression system for easy starts. Fuel system does not require oil to be mixed to gasoline. Compact, lightweight blower comes with adjustable joy-stick handle, wide backpack straps, and ventilated back panel. CARB Tier III and EPA Phase II Compliant.

EGO™—Quiet, lightweight Power Plus backpack blower has a powerful turbine fan for heavy debris-clearing power. Variable speed control and high-efficiency, brushless motor.

Greenworks®—Handheld blower creates high-velocity air speeds that handle tough tasks like clearing wet, heavy leaves, grass, and stubborn debris. Designed with a brushless motor that provides power and performance. Additional features include trigger starting, variable-speed control, turbo button and cruise control. Includes battery.

Description	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
ECHO® Gas Powered					
Tube Mounted Throttle					
2 Stroke, 58.2cc	510 cfm	215 mph	70	PB-580TAA	**40JW43**
2 Stroke, 63.3cc	535 cfm	215 mph	65	PB-760LNH	**52DD74**
2 Stroke, 63.3cc	651 cfm	233 mph	74	PB-755ST	**44X137**
2 Stroke, 63.3cc	765 cfm	234 mph	73	PB-770T	**44X139**
2 Stroke, 80cc	1071 cfm	210 mph	80	PB-8010H	**493X88**
Hip Mounted Throttle					
2 Stroke, 58.2cc	510 cfm	215 mph	70	PB-580H	**52DD60**
2 Stroke, 63.3cc	756 cfm	234 mph	73	PB-770H	**52DD58**
2 Stroke, 80cc	1071 cfm	210 mph	80	PB-8010T	**493X87**
Makita® Gas Powered					
Tube Mounted Throttle					
4 Stroke, 75.6cc	706 cfm	206 mph	76	EB7660TH	**493W70**
EGO 56V Lithium-Ion					
Tube Mounted Throttle					
Bare Tool	600 cfm	145 mph	64	LB6000	**52WT54**
5.0Ah Battery, Standard Charger	600 cfm	145 mph	64	LB6002	**52WT55**
7.5Ah Battery, Fuel Gauge, Standard Charger	600 cfm	145 mph	64	LB6003	**55ET25**
Greenworks® 80V Lithium-Ion					
2.5Ah Battery, Standard Charger	580 cfm	145 mph	64.7	BPB80L2510	**446N33**


No. 20X615


No. 49AY37


No. 53JH19


No. 44YV60

Handheld Electric- and Battery-Powered Blowers

Westward® Electric-Powered—Lightweight 2-speed blower/vac includes High/Low control switch and collection bag.

Makita® Battery-Powered—Quieter than gas-powered blowers have zero emissions. Lightweight design provides 30 min. of continuous run time on a single charge. Kit No. 52YW72 includes 36V Li-ion battery and charger. Charger actively monitors current, voltage, and temperature throughout charging process to optimize battery life.

EGO Power Plus—Rechargeable blowers have a convenient, cordless design with the power to match or exceed the performance of many premium gas-powered models. Quiet operation allows use in areas with noise restrictions. Provides 1 hr. of run time on a single charge. Weather-resistant construction. Extra batteries and chargers sold separately; higher-amperage batteries provide longer run times.

DeWalt®—Quiet, powerful, battery-operated blowers give you simple variable-speed operation. Ergonomically designed handles with trigger and speed control.

Includes	Battery Voltage	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
Westward Electric Blower						
Bare Tool, Vacuum Bag	120V	370 cfm	210 mph	90	20X615	**20X615**
Makita Lithium-Ion						
Bare Tool	18V	91 cfm	116 mph	—	DUB183Z	**53RH10**
Bare Tool	36V	473 cfm	120 mph	61	XBU02Z	**44YV60**
(2) Batteries, Charger	36V	473 cfm	120 mph	61	XBU02PT	**52YW72**
EGO Power Plus Lithium-Ion						
Battery, Charger	56V	530 cfm	132 mph	65	LB5302	**49AY38**
Bare Tool, Battery	56V	480 cfm	92 mph	64	LB4800	**453D97**
Bare Tool	56V	530 cfm	132 mph	65	LB5300	**49AY37**
DeWalt Lithium-Ion						
Bare Tool	20V	400 cfm	92 mph	61	DCBL720B	**48ZE96**
Battery, Charger, Standard Nozzle, Flat Concentrator Nozzle	60V	423 cfm	125 mph	67	DCBL770X1	**53JH19**
Battery, Charger	20V	400 cfm	90 mph	—	DCBL720P1	**39RW03**
Bare Tool, Standard Nozzle, Flat Concentrator Nozzle	60V	423 cfm	125 mph	67	DCBL770B	**458P05**

Description	Mfr. Model	Item No.
DeWalt® Accessories		
XR™ Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
40V MAX™ Series Li-Ion Battery, 40V, 6.0Ah	DCB406	**40CA30**
40V Charger	DCB114	**40CA31**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
Power+ Series, 56V, 7.5Ah Li-Ion Battery	BA4200T	**54YP23**
Charger	CH2100	**38ZE12**
Makita® Accessories		
LXT® Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT® Battery Charger	DC18RC	**4NNN4**

Walk-Behind Blowers

Rolling blowers ease leaf, debris, and litter removal, as well as pavement surface preparation. An innovative aim and shoot feature allows fingertip airflow direction control. Lightweight rust- and dent-resistant composite housing has smooth, rounded edges for maximum performance and low noise.


No. 5NLF8

Description	HP	Max. Air Flow	Max. Air Speed	Mfr. Model	Item No.
Walk-Behind Blowers					
Subaru® Gas Engine	6	1090 cfm	200 mph	F601V	**5NLF8**
Honda® OHV Gas Engine	13	2600 cfm	200 mph	F1302H	**6TFH5**
Blower Accessories					
Hose Kit, For Use with No. 5NLF8				441166	**5NLG1**
Forward Discharge Elbow, For Use with No. 5NLF8				441130	**5NLG0**
Trailer Lock Down Kit, For Use with Nos. 5NLF9 and 6TFH5				440120	**5NLG2**
Parking Brake Kit, For Use with Nos. 5NLF9 and 6TFH5				440140	**5NLG3**
Foam Filled Tire, For Use with Nos. 5NLF9 and 6TFH5				440279	**5NLG4**
Caster Kit, For Use with Nos. 5NLF9 and 6TFH5				440293	**5NLG5**

BILLY GOAT

Walk-Behind Aerator

Improves supply of water, sunlight, and nutrients to grass roots. Features water weight system for deeper aeration. Thick O-ring chain for longer life and enhanced lubrication. Easy tine engagement for operator comfort. Semipneumatic tires are puncture-proof. Folding handle eases transport and storage. CARB and EPA Compliant.



Working Width	HP	Displacement	Engine	Tine Pattern	Fuel Tank Capacity	Item No.
19"	4.0	118cc	Honda OHV	4½ x 7"	2.1 qt.	**6TFH3**



CUSHMAN

No. 35ZD51

Personal Transport Vehicles (PTVs)

Feature CVT transmission and leaf spring suspension with hydraulic shock absorbers.

NOTE: Replacement parts are available on Grainger.com®.

EXPRESS

E-Z-GO® Express S4 Series handles uneven terrain. Electric model has a quiet, 72V electric drivetrain and reaches 19.5 mph. Gas model has 13.5 HP Kawasaki engine and reaches 17 mph.

SHUTTLE

Shuttle™ Series electric models have 18.1 HP, 48VDC engines and can reach top speeds of up to 13 mph. Gasoline models have a 13.5 HP, single-cylinder, 4-cycle Kawasaki engine and can reach top speeds of up to 16 mph. No. 35DZ48 has a top speed of 13 mph.

Seating Capacity	Max. Load Capacity	Features	Item No.
Express			
Electric			
4	800 lb.	USB Port, 72V Powertrain for Extended Range, Standard Brush Guard	**55MN44**
Gas			
4	800 lb.	Gray Seat, Trail Wolf Tires, Headlights	**35ZD50**
Shuttle			
Electric			
2	1000 lb.	Oyster Seat, Headlights, Battery, Battery Charger	**35ZD45**
4	1200 lb.	Oyster Seat, Links Tires, Headlights, Battery, Battery Charger	**35ZD47**
6	1200 lb.		**35ZD51**
8	1600 lb.	Oyster Seat, Kenda Load Star Tires, 50 psi Front, 70 psi Rear, Headlights, Taillights, Brake Lights	**35ZD54**
Gas			
2	1200 lb.	Oyster Seat, Links Tires, Headlights	**35ZD46**
4	1200 lb.		**35ZD48**
6	1200 lb.	Oyster Seat - 6, Links Tires, Headlights	**35ZD52**
8	1600 lb.	Oyster Seat, Kenda Load Star Tires, 50 psi Front, 70 psi Rear, Headlights, Taillights	**35ZD53**



Hauler 800
No. 35ZD61



CUSHMAN

Hauler Pro™ X
No. 38UN38

Utility Task Vehicles (UTVs)

Hauler™ Series vehicles feature CVT transmission and leaf spring suspension with hydraulic shock absorbers. Electric models have powerful engines, up to 3 HP with a solid state, continuously variable, separately excited speed controller; dash-mounted direction selector switch (forward-neutral-reverse); and reduced speed reverse. Hitch included. Hauler Pro™ and Pro-X feature a 72VAC electric drivetrain with a 50-mi. range, plus a 12 cu. ft. cargo bed. No. 38UN39 has an integrated tie-down system and 18" tires. No. 38UN38 has a lifted suspension for extra ground clearance with 20" rugged tires.

NOTE: Replacement parts are available on Grainger.com®.

Description	Seating Capacity	Max. Load Capacity	Wheel Base	Features	Item No.
Electric					
Hauler 800	2	800 lb.	65½"	Gray Seat, 20" Trail Tires, Horn, Brush Guard Bumper, Headlights, Manual Bed Lift, Rear Hitch Receiver	**35ZD61**
Hauler 800X	2	800 lb.	65½"	Gray Seat, Links Tires Front, Turf Saver Tires Rear, Horn, Brush Guard Bumper, DC Converter, State of Charge Meter, Headlights, Plastic Bed with Manual Lift	**35ZD63**
Hauler Pro™	2	1000 lb.	75½"	Solid State Continuously Variable AC Speed Controller, Seatwrap Mounted Direction Selector Switch, Anti-Roll Back, Walkaway Braking and Alarm, Anti-Stall Motor Protection, Regenerative Pedal Down and/or Pedal Up Braking, Full Torque, Reduced Speed Reverse, Inductive Throttle Sensor, Diagnostic Indicator, Factory Programmable to Application	**38UN39**
Hauler Pro™ X	2	1000 lb.	78"	Solid State Continuously AC Speed Controller, Mounted Direction Selector, Anti-Roll Back, Walkaway Braking and Alarm, Anti-Stall Motor Protection, Regenerative Pedal Down and/or Pedal Up Braking, Full Torque, Reduced Speed Reverse, Inductive Throttle Sensor, Diagnostic Indicator, Factory Programmable to Application	**38UN38**
Gas					
Hauler 800	2	800 lb.	65½"	Gray Seat, Trail Wolf Tires, Horn, Brush Guard Bumper, Headlights, Plastic Bed with Manual Lift, Rear 2" Hitch Receiver	**35ZD62**
Hauler 800X	2	800 lb.	65½"	Gray Seat, Links Tires Front, Turf Saver Tires Rear, Horn, Brush Guard Bumper, Headlights, Plastic Bed with Manual Lift	**35ZD64**
Hauler 1200	2	1200 lb.	77"	Gray Seat, Stryker Tires, Horn, Brush Guard Bumper, Headlights, Fuel Gage with Low Oil Indicator, Gas Spring Assisted Lift	**35ZD66**
Hauler 1200X	2	1200 lb.	77"	Load Range C Tires, Brake Lights, Fuel Gage, Headlights, Horn, Oil Gauge, Taillights	**35ZD68**

BILLY GOAT

Litter Vacuums

Suitable for leaf, litter, and debris removal in residential or commercial applications.

Residential/Light Commercial Duty—Feature a 5-blade serrated impeller, zipperless bottom-load mesh turf bag with fasteners for easy unloading. 12" wheels allow maneuvering in tight spaces. Clean up to 35,640 sq. ft./hr. No. 5NLG6 is for hard surfaces, No. 5NLG7 has a 1-speed transmission ideal for hilly turf applications.



No. 5NLG7

Commercial Duty—3-speed with a 6-blade impeller. Top-fill mesh turf bag slides out on rails to ease unloading. 14" wheels allow maneuvering over uneven areas. Micro-adjustable height control allows use on turf or hard surfaces. Cleans up to 45,000 sq. ft./hr.

Industrial Duty/Hard Surface—Feature cyclonic filtration with dust sock technology to help reduce dust in dry conditions. Shift-on-the-fly hydrostatic transmission features a variety of forward and reverse speeds for operating in wide open areas and to allow maneuvering in tight spaces. 4-latch bag system is easy to operate.

Description	Cleaning Path	Mfr. Model	Item No.
Residential/Light Commercial Duty			
Push Vacuum with Honda® GSV190 Engine	27"	KV650H	**5NLG6**
Self-Propelled Vacuum with Honda® GSV190 Engine	27"	KV650SPH	**5NLG7**
Commercial Duty			
Self-Propelled Vacuum with Honda® GSV190 Engine	29"	MV650SPH	**5NLG8**
Industrial Duty/Hard Surface			
Push Vacuum with Honda® GX160 Engine	33"	QV550H	**42X708**
Self-Propelled Vacuum with Honda® GX160 Engine	33"	QV550HSP	**42X709**
Self-Propelled Vacuum with Honda® GX160 Engine	33"	QV900HSP	**42X710**

Description	Mfr. Model	Item No.
Accessories for Nos. 5NLG6 and 5NLG7		
Hose Kit, 4" x 8 ft.	891125	**5NLH0**
Standard Turf Bag	891132	**5NLH1**
Felt Bag	891038	**5NLH2**
Accessories for No. 5NLG8		
Hose Kit, 5" x 10 ft.	840116	**5NLH3**
Disposable Bag Liners, Pkg. of 12	840134	**5NLH4**
Standard Turf Bag	840189	**5NLH5**
Dust Sock	840263	**35HX34**
Felt Bag	840194	**5NLH6**
Accessories for Nos. 42X708, 42X709, and 42X710		
Hose Kit, 5" dia x 10 ft.	831018	**42X711**
Dust Sock	831282	**42X712**
Replacement Turf Bag with Ring, 35 gal.	831617	**42X713**
Replacement Exhaust Filter	831226	**42X715**
Debris Bag Dust Skirt	831268	**42X714**



No. 20UG76

SWEEPEX

Rotary Broom Sweepers

Walk-Behind Sweepers—Compact sweepers have a powerful Honda engine and an oscillating broom head, as well as 3 forward gears and 1 reverse gear, for excellent performance on a variety of surfaces. Multifunction controls for travel speed, brush speed, pressure, and brush direction. Adjustable height allows comfortable use. Fold for easy storage. Include Multipurpose Brush Kit. Additional attachments sold separately for year-round functionality, see page 992.

Brush Kits—Dirt Brush Kits get at embedded and hard-to-remove dirt. Maintenance Brush Kits are ideal for sweeping ground coverings, such as brick pavers, which require special care.

Brush Extension Kit adds 5.5" to the broom sweep path, and helps with cleaning around corners and edges.

Debris and Leaf Collection—Debris Shields help protect the user from flying debris, such as rocks, sticks, and other scraps; Debris Collectors catch the debris, and direct it into the sweep path.

Leaf Collectors push and clear leaves from entryways, sidewalks, and parking lots.

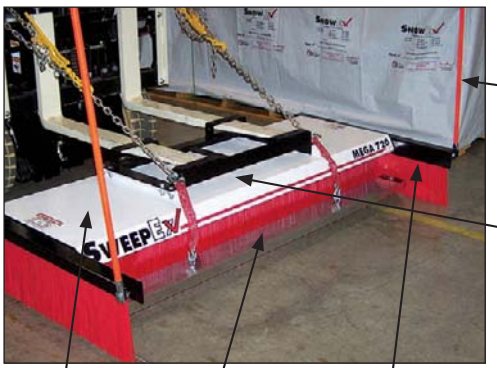
Description	Mfr. Model	Item No.
Walk Behind Sweeper		
40" Clearing Path with 12" Brush Dia.	SWB-400	**20UG65**
48" Clearing Path with 16" Brush Dia.	SWB-480	**20UG76**
Brush Kits		
Multipurpose Brush Kit For No. 20UG65	SMP-400	**20UG71**
Multipurpose Brush Kit For No. 20UG76	SMP-480	**20UG81**
Dirt Brush Kit For No. 20UG65	SSD-400	**20UG73**
Dirt Brush Kit For No. 20UG76	SSD-480	**20UG83**
Maintenance Brush Kit For No. 20UG65	SSM-400	**20UG74**
Maintenance Brush Kit For No. 20UG76	SSM-480	**20UG84**
Brush Extension Kit For No. 20UG65	SEB-020	**20UG75**
Debris and Leaf Collection		
Debris Shield For No. 20UG65	PCA-400	**20UG68**
Debris Shield For No. 20UG76	PCA-480	**20UG79**
Debris Collector For No. 20UG65	DCB-400	**20UG66**
Debris Collector For No. 20UG76	DCB-480	**20UG77**
Leaf Collector For No. 20UG65	LCA-400	**20UG67**
Leaf Collector For No. 20UG76	LCA-480	**20UG78**

Forklift Broom Attachments

SWEEPEX

Sweepers—Turn forklifts into cleanup equipment. Sweepers are attached to forklift tines and are suitable for wet and dry use, indoors and outdoors. 11"L virgin polypropylene bristles are easy to rotate and change. Mega Series requires Forklift Hitch No. 4AZZ9 for mounting to fork tines. Replacement brushes are available on Grainger.com®.

Accessory Attachments—Magnet Bars pick up nails and loose metal debris. Debris Containment Ends keep debris in front of sweeper. Edge Marker Kit allows driver to see exactly where sweeper is located. To attach the Pro and Mega Series sweepers to a skid steer unit, use No. 54EM87 Skid Steer Hitch with Pro Series sweepers and both No. 54EM87 Skid Steer Hitch and No. 54EM88 Adapter Plate for the Mega Series sweepers.



Description	Brush Width	Mfr. Model	Item No.
Sweepers			
Pro Series	60"	SPB-600	**4AZZ4**
	72"	SPB-720	**4AZZ5**
Mega Series	60"	SMB-600	**4AZZ6**
	72"	SMB-720	**4AZZ7**
	96"	SMB-960	**4AZZ8**
Accessory Attachments			
Magnet Bar, 60"	—	HDM-060-1	**4CAC1**
Magnet Bar, 72"	—	HDM-072-1	**4CAC2**
Debris Containment Ends and Edge Markers	2" x 36"	DCE-020-1	**4CAC3**
Edge Marker Kit	—	EDG-020	**4CAC4**
Mega Series Forklift Mount	—	FLH-200	**4AZZ9**
Pro & Mega Series Skid Steer Hitch	—	SSH-175-1	**54EM87**
Adapter Plate (Also required for Mega Series Skid Steer Attachment)	—	75105	**54EM88**

Snow Throwers and Accessories

- All snowblowers offer a powerful Ariens AX engine.

Single-Stage—Lightweight, easy to maneuver, and transport. Manual chute rotation and deflector control. Foldable handle bars allow easy storage.

2-Stage Compact—Features a freeze-resistant 3-blade, 12" impeller, heavy-duty cast-iron gear case with alloy steel gears, and L-3 severe duty gear oil. Steel chute rotates 205° to throw snow up to 40 ft. in almost any direction. Pin-lock axle provides either high-traction 2-wheel drive, or highly maneuverable 1-wheel drive. User-friendly controls. Fully welded and gusseted frame with welded structural truss reinforcement and folding tubular steel handlebars. Halogen headlight.

2-Stage Deluxe—3-blade, 14" steel impeller and auger carve out a 24" to 30"-wide path throwing snow up to 60 ft. A dual-belt auger drive continuously sustains engine power directly to the blower head, with no maintenance adjustments required. Feature a heavy-duty cast-iron gear case with alloy steel gears and L-3 severe-duty gear oil. High-performance final drive ratio ensures higher torque at wheels and provides superior traction through deep snow.

2-Stage Professional—Professional-duty snow throwers feature heavy-duty all-steel construction, and come with standard drift cutters and a 16" steel auger to handle even high drifts and hard-packed snow. A commercial-grade cast-iron Gear Case™ with alloy steel gears and synthetic gear oil. Steel chute rotates 200° to discharge snow in almost any direction, with an adjustable throwing distance up to 60-ft. Includes commercial-duty ½"-thick steel skid shoes and a clean-out tool with brush. Auto-turn steering provides increased maneuverability. Both snow throwers offer one-hand interlock and include built-in hand warmers.

2-Stage Professional Hydro Rapidtrak™—This rugged snow thrower features a maintenance-free hydrostatic drive system that uses synthetic oil and has no wearable components, with an enhanced thermal management system to help assure long service life. With a 16" serrated steel auger and 3-blade 14" steel impeller; throw snow up to 60 ft. Long-wearing commercial-duty ½"-thick steel skid shoes and a steel scraper bar provide consistent performance, while the infinite speed control can be adjusted to your needs and preferences. Cast-iron gear case with alloy steel gears comes prefilled with synthetic gear oil. Convenient one-hand interlock. Built-in hand warmers offer warmth as you work.

ACCESSORIES

Shear Bolt Kits—Intentionally designed to snap if the auger jams or clogs, and will rupture at the designed load limit to protect the auger gear box.

Maintenance Kit—Kit includes 32 oz. of Ariens® 5W30 engine oil, replacement spark plug, fuel stabilizer granules, and a spare ignition key.

Slicer Bar Kits—Use to cut large drifts and packed snow and direct snow into the auger; rotate bars down and out-of-the-way when not needed. Can be installed without tools.

Composite Skid Shoe Kit—Nonabrasive shoe protects decorative surfaces from snow thrower damage. Kit includes 2 skid shoes and installation hardware.

Snow Thrower Covers—Water-repellent, tear- and abrasion-resistant covers can stand up to rugged environments. 6mm bungee around the edges.

Protective Floor Mat—Park snow throwers on the raised-edge mat to help contain melting snow, and to help prevent gas, oil, and rust spots and scratches.

Front Weight Kit—Adds 10 lb. to the front of Ariens® snow throwers, to equalize weight distribution and hold the scraper blade closer to the ground to get a cleaner surface. Also enhances operator comfort and control.

Protective Cab—Installs quickly and easily, with no tools required, to protect against heavy snow and wind. Freeze-resistant clear windows. Does not require weight kit.


Single-Stage
No. 22PT97


2-Stage
Compact
No. 416L39


2-Stage
Deluxe
No. 22PT94


No. 55MJ77


Protective
Cab Only
No. 5XPV4

Displacement	Displacement	Clearing Path	Inlet H	Auger Dia.	Torque	Start Type	Drive Gears	Mfr. Model	Item No.
Single-Stage									
208cc	208cc	21"	12"	8 13/32"	9.5	Electric/Recoil	1 Forward	938032	**22PT97**
208cc	208cc	21"	12½"	8 13/32"	9.5	Recoil	1 Forward	938024	**416L42**
2-Stage Compact									
223cc	223cc	24"	20"	11"	10	Electric/Recoil	6 Forward/2 Reverse	920027	**416L39**
2-Stage Deluxe									
254cc	254cc	24"	21"	14"	12.5	Electric/Recoil	6 Forward/2 Reverse	921045	**49XX60**
254cc	254cc	28"	21"	14"	12.5	Electric/Recoil	6 Forward/2 Reverse	921046	**22PT93**
306cc	306cc	30"	21"	14"	15	Electric/Recoil	6 Forward/2 Reverse	921047	**22PT94**
2-Stage Professional									
420cc	420cc	28"	23½"	16"	21	Electric	Variable	926077	**55MJ76**
420cc	420cc	32"	23½"	16"	21	Electric	Variable	926076	**55MJ77**
2-Stage Professional Hydro Rapidtrak™									
420cc	420cc	28"	23½"	16"	21	Electric	Variable	926078	**55MJ78**
Accessories									
Shear Bolt Kit, For Use with Nos. 5XPT6 and 31MJ51								73203900	**10L413**
Shear Bolt Kit, For Use with Nos. 22PT93 and 22PT94								72100600	**10L412**
Maintenance Kit, For Use with 2-Stage Models (This Page) Except No. 5XPT6								72101300	**5XPV9**
Slicer Bar Kit, For Use with Nos. 5XPT6 and 31MJ51								73203100	**5XPV6**
Slicer Bar Kit, For Use with No. 10G176								72406900	**5XPV7**
Composite Skid Shoe Kit, For Use with All 2-Stage Models (This Page) Except No. 5XPT6								72603100	**5XPV8**
Snow Thrower Cover, For Use with Nos. 22PT92, 22PT96, 22PT97, 5XPT6, 31MJ51								72601400	**5XPV2**
Snow Thrower Cover, For Use with Nos. 22PT93 and 22PT94								72601500	**5XPV3**
Protective Floor Mat, 30" x 36"								70716800	**14V989**
Front Weight Kit, For Use with All Models (This Page)								72406500	**5XPV5**
Protective Cab, For Use with All 2-Stage Models (This Page)								72102600	**5XPV4**



Snow Throwers

BRIGGS & STRATTON

Electric start snow throwers offer a Briggs & Stratton engine, use synthetic oil and have a 3-yr. limited warranty.

Single-Stage—No. 40LJ51 features an auger-assisted drive system with a thermal plastic urethane auger. Manual chute rotation and quick deflector.

No. 40LJ47 has a SnowShredder™ serrated, welded steel auger and 1-pc. all-steel auger housing with ball bearings. Features electric chute rotation and quick deflector, and a comfortable ergonomic handlebar.

Nos. 55JK85 and 55JK86 offer quick adjust deflector, a compact size, and quick height and distance adjustment.

2-Stage—FreeHand™ control and reversible skid shoes provide easy control. Friction disc transmission has 5 forward and 2 reverse speeds. The dash-mounted chute control and on-panel deflector control provide easy operation. Steel skid shoes.

Displacement	Drive Type	Clearing Path	Auger Dia.	Auger Type	Inlet Height	Torque	Lights	Fuel Tank Capacity	Mfr. Model	Item No.
Single-Stage										
163cc	Auger	22"	10"	Thermal	12½"	9.5 ft.-lb.	No	2.9 qt.	1696715	**40LJ51**
250cc	Auger	22"	10"	Thermal	12½"	11.5 ft.-lb.	Yes	3.2 qt.	1696741	**40LJ47**
Single-Stage, Compact Size										
127cc	Auger	18"	7"	Thermal	12½"	5.5 ft.-lb.	No	3.2 qt.	1697099	**55JK85**
208cc	Auger	18"	10"	Thermal	12½"	9.5 ft.-lb.	No	3.2 qt.	1696727	**55JK86**
2-Stage										
208cc	Disc	18"	12"	Notched	20"	9.5 ft.-lb.	Yes	3.2 qt.	1696807	**55JK88**
250cc	Disc	18"	12"	Notched	20"	11.5 ft.-lb.	Yes	3.2 qt.	1696815	**55JK89**
208cc	Disc	24"	12"	Notched	20"	9.5 ft.-lb.	Yes	3.2 qt.	1696614	**40LJ49**
250cc	Disc	27"	12"	Notched	20"	11.5 ft.-lb.	Yes	3.2 qt.	1696619	**40LJ48**



Snow Sweeper SNOW EX

Polar Trec tires and pneumatic support assures outstanding traction and 360° turnability on snow and icy terrain. Attach the included snow blade for dual sweeping/plowing capabilities. Locking differential feature helps keep you on a straight path. Control broom angle, pressure, and speed directly from the steering-mounted panel. Adjustable height allows comfortable use. Folds for storage.

Engine	Clearing Path	Brush Dia.	Mfr. Model	Item No.
Honda GXV Series 160cc	40"	16"	SS-4000	**20UG85**

All-Season Brush Sweepers

SWEEP EX

Sweepers—Compact sweepers have powerful 160cc Honda® GXV engines, 3 forward gears, and 1 reverse gear. The oscillating broom head provides excellent clearing on a variety of surfaces. Easy, multifunction control for travel speed, brush speed, pressure, and brush direction. Adjustable height allows comfortable use. Fold for storage. Multipurpose Broom Kit included; additional attachments sold separately for year-round functionality.

Accessories—Snow Blade and Snow Brush Kit turn your walk-behind rotary broom into an effective snow removal tool. Easily brush away snow from sidewalks, entryways, and parking lots.

Optional Polar-Trec drive wheels provide positive traction on snow and icy terrain, find them on Grainger.com®.



Description	Mfr. Model	Item No.
Walk Behind Sweeper		
40" Clearing Path with 12" Brush Dia.	SWB-400	**20UG65**
48" Clearing Path with 16" Brush Dia.	SWB-480	**20UG76**
Accessories		
Snow Blade For No. 20UG65	SSB-400	**20UG70**
Snow Brush Kit For No. 20UG65	SRS-400	**20UG72**



All-Season Power Brush Outdoor Sweepers

ARIENS

Use to clear snow, slush, or debris. Safe for use on decorative surfaces. Nos. 410X64 and 410X65 have 6 forward and 2 reverse speeds, No. 410X66 is hydro-powered with variable speed. Height-adjustable brush can pivot up to 40°. All-wheel drive with auto-turn steering. No. 410X64 has 13" x 4" treaded tires. No. 410X65 has 16" x 6½" treaded tires and halogen headlight.

Description	Clearing Path	Brush Dia.	Mfr. Model	Item No.
177cc Kohler® CH255 Engine	28"	18"	921056	**410X64**
Kohler® Engine	36"	25"	926074	**410X65**
277cc Kohler® CH395 Engine, Hydro Power	36"	25"	926075	**410X66**



Small Engine Fuel

Non-ethanol fuel is formulated to provide easier more-dependable starts. Remains stable and ready to run for up to 2 years once poured into the tank; keeps for up to 5 years in an unopened can. Helps reduce maintenance and extend engine life.

Size	Mfr. Model	Item No.	Pkg. Qty.
2-Cycle Premixed Fuel and Oil (50:1)			
1 qt.	6238	**46T343**	8
5 gal.	6232	**46T347**	1
54 gal.	6234	**46T349**	1
4-Cycle Unleaded Fuel			
1 qt.	6208	**46T342**	8
5 gal.	6202	**46T346**	1
54 gal.	6204	**46T348**	1



Universal 2-Cycle Oil

CRC

Clean-burning formula protects against heat, corrosion, and rust. Use where different ratio mixtures are required. For engines with 25 HP or less.

Size	Mfr. Model	Item No.
15 oz.	SL2261	**5TN63**



OREGON

Only One™ 2-Cycle Oil

Can reduce oil consumption and particulate emissions by up to 50% compared to standard oil. Mix with 1 gal. of gasoline.

Size	Mfr. Model	Item No.
1.8 fl. oz. Packet	40092	**46C507**

ECHO

2-Cycle Engine Oil and Stabilizer



No. 45J374

ECHO Power Blend™ Synthetic Oil (Nos. 45J373 and 45J374) helps facilitate proper break-in and extends the life of your equipment. Red Armor® No. 45J377 can stabilize fuel for up to 2 years. Cleans away existing engine deposits and helps protect against carbon buildup.

Size	Mfr. Model	Item No.	Pkg. Qty.
2.6 oz.	6450001GE	**45J373**	6
16 oz.	6450006GE	**45J374**	1
2.6 oz.	6550001E	**45J377**	6



STOR-X® Fuel Stabilizer

KW

Preserves gasoline and diesel fuel up to 1 yr. Inhibits formation of varnishes, peroxides, and gums. 1 bottle treats up to 20 gal.

Size	Mfr. Model	Item No.
8 oz.	402815	**3KB54**

Snow Shovels, Pushers, Brushes, Ice Choppers, and Roof Rakes

Description	Handle L	Handle Material	Blade Material	Blade W	Blade H	Brand	Item No.
Snow Shovels							
Snow Shovel with Straight Handle	22"	Plastic	Aluminum	9"	4½"	Subzero	**21EK35**
Telescopic, Extending	30" to 37"	Plastic	Plastic	8½"	13¾"	Subzero	**16A722**
Ergonomic Shaft Design with D-Grip Handle	39"	Steel	Aluminum	18"	14¾"	Westward	**12U488**
	39"	Steel	Aluminum, Polypropylene	18"	14½"	True Temper	**5W938**
	39"	Steel	Polypropylene, Stainless Steel	19⅔"	13"	Westward	**21AD03**
Standard Design with D-Grip Handle	36"	Wood	Aluminum	18"	14¾"	Westward	**12U487**
	36"	Wood	Steel	18"	14¾"	Westward	**6YU43**
	36"	Steel	Aluminum	18"	14½"	True Temper	**35NZ65**
	37"	Wood	Polypropylene, Stainless Steel	18"	13½"	Westward	**21AD01**
	37"	Wood	Steel	18"	14½"	True Temper	**4W604**
	37"	Wood	Polypropylene	18"	13½"	Westward	**32KX18**
	37"	Steel	Polypropylene, Stainless Steel	18"	13½"	Westward	**21AC99**
	43"	Fiberglass	Polycarbonate	18"	13½"	Seymour Midwest Structron	**417T74**
Snow Pushers							
Standard Design with Straight Handle	48"	Wood	Aluminum, Polypropylene	24"	12"	Westward	**6YU39**
	49½"	Wood	Carbon Steel	24"	12"	Westward	**6YU37**
	48"	Wood	Carbon Steel	24"	12"	True Temper	**4W603**
Standard Design with Steel Braces	48"	Wood	Steel	30"	12"	Westward	**12U485**
Standard Design with D-Grip Handle	42"	Wood	Aluminum, Polypropylene	22¼"	11⅜"	Westward	**21AC98**
	42"	Wood	Polypropylene	22¼"	11½"	Westward	**36RG03**
	42"	Wood	Steel	24"	10"	True Temper	**8AJ16**
	42"	Wood	Polycarbonate	30"	11"	Union Tools	**4KGN7**
	45"	Fiberglass	Polycarbonate	24"	10.75"	Seymour Midwest Structron	**417T73**
	43¼"	Wood	HDPE	30"	10½"	Westward	**46MP80**
	45"	Steel	Aluminum, Polypropylene	22¼"	11⅜"	Westward	**21AD02**
	46"	Steel	Polypropylene	27"	13"	Suncast	**45CH36**
U-Shaft/Handle Ergonomic Design	32"	Aluminum	Polycarbonate, Steel	26"	21"	True Temper	**22D135**
U-Shaped	27½"	Aluminum	Polycarbonate	20"	19"	True Temper	**22D136**
	48"	Aluminum	HDPE	24"	13"	Manplow	**420M44**
	48"	Aluminum	HDPE	24"	15"	Manplow	**45LW42**
	48"	Aluminum	HDPE	32"	12"	Manplow	**420M36**
	48"	Aluminum	HDPE	32"	13"	Manplow	**420M45**
	48"	Aluminum	HDPE	42"	12"	Manplow	**420M37**
	48"	Aluminum	HDPE	42"	13"	Manplow	**420M46**
	48"	Aluminum	HDPE	52"	12"	Manplow	**420M38**
	16"	Plastic	Polycarbonate	3¾"	3½"	Mallory	**1GLR6**
	26"	Plastic	Polycarbonate	5"	4"	Mallory	**1GLR4**
	35½"	Aluminum	Polycarbonate	5"	4½"	Mallory	**1GLR2**
	34 to 52"	Aluminum	Polycarbonate	5"	4"	Mallory	**1GLP9**
Ice Choppers							
Standard Design	48"	Wood	Steel	3½"	6"	Westward	**12U484**
	48"	Wood	Steel	4"	9½"	Westward	**12U482**
	48"	Wood	Steel	7"	5"	True Temper	**49AF75**
	48"	Wood	Steel	7"	6"	Westward	**6YU41**
	54"	Hardwood	Steel	7"	6"	Westward	**39FY71**
Standard Design with D-Grip Handle	39"	Wood	Steel	7"	9¼"	Westward	**12U483**
	45"	Steel	Tempered Galvanized Steel	10"	3 1⁄16"	Suncast	**45CH38**
	46½"	Wood	Steel	7"	9"	Razor-Back	**39GA14**
	52"	Ribbed Steel Core	Tempered Galvanized Steel	7"	2"	Suncast	**22EN23**
Snow Roof Rakes							
3-pc. Telescoping Handle	16 ft.	Aluminum	Poly	22"	6"	Garant	**39GA13**
	16 ft.	Aluminum	Plastic	23½"	6"	Westward	**12U486**
	16 ft.	Aluminum	Aluminum	24"	4½"	Seymour Midwest Rake	**9M608**
	16 ft.	Aluminum	Aluminum	22"	4⅝"	Seymour Midwest Rake	**9XFW5**
Nonslip Telescoping Handle and Shaft	17 ft.	Aluminum	Poly	24"	6½"	True Temper	**22D137**
Replacement EZ Glide Edges for Manplow Snow Pushers							
PRO Replacement EZ Glide Edges	—	—	HDPE	24"	2½"	Manplow	**420M50**
	—	—	HDPE	32"	2½"	Manplow	**420M51**
	—	—	HDPE	42"	2½"	Manplow	**420M52**
Replacement Blade for Manplow Snow Pushers							
Replacement Blade, For Use with Any MANPLOW® U-Shaped Handle	48"	Aluminum	HDPE	24"	15"	Manplow	**45LW43**


No. 21EK35


No. 21AD03


No. 417T74


No. 4KGN7


No. 22D136

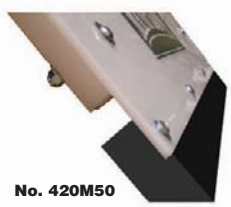

No. 420M36


No. 1GLR2


No. 6YU41


No. 45CH38


No. 9M608

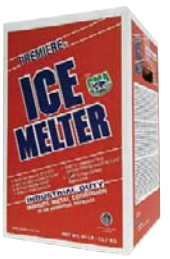

No. 420M50



No. 5UUY5



No. 5UUY4



No. 4W973

Granular Ice Melting Compounds

Inhibitor system contains CMA (calcium magnesium acetate), a fast-acting, longer-lasting ice melter that is safer than calcium chloride. Nontoxic and noncorrosive when used as directed.

Description	Ice Melt Color	Size	Mfr. Model	Item No.
Solo	Blue	50 lb.	CSOL050BX-GR	**5UUY5**
Premiere®	Blue	12 lb.	CPM012JG-GR	**5UUY4**
Premiere®	Blue	50 lb.	CPM050P	**4W973**
Premiere Pro®	Pink	50 lb.	SU050BX-GR	**4KA50**

COMPARISON CHART FOR GRANULATED ICE MELTER PRODUCTS

	Solo	Premiere®	Premiere Pro®	Salt/ Potassium Chloride	Calcium Chloride
Safer Choice		X	X	—	—
Metal Corrosion Inhibitors	X	X	X	—	—
Safe on Vegetation	X	X	X	—	—
Colored Product	X	X	X	—	—
Safe on Leather	X	X	X	X	—
Anticaking Agents	X	X	X	—	—
Safe on Carpets & Floors	X	X	X	X	—
No Protective Clothing Needed	X	X	X	X	—
Freezing Point	-5°F	-8°F	-20°F	-5°F/12°F	-25°F



No. 19YX34



No. 19YX35

EcoTraction™

- Effective in all temperatures

Safe, eco-friendly granules provide better traction than sand and resist freezing and clumping. Excellent for areas with heavy foot traffic and great for vehicles on side roads. Highly visible green particles embed into ice and snow for long-lasting traction. Will not harm people or animals if accidentally ingested and will not damage plants, grass, or concrete parking surfaces. Designed to improve soil's nutrient reservoirs, infiltration rate, aerations, and water absorption.

Size	Coverage Area	Package Type	Mfr. Model	Item No.
10 lb.	Up to 2880 sq. ft.	Jug	ET4R	**19YX34**
40 lb.	Up to 10,080 sq. ft.	Bag	ET40X	**19YX35**
2000 lb.	Up to 504,000 sq. ft.	Bulk Tote (Super Sack)	ET909X-T	**19YX36**

Premiere® Liquid De-Icer

- Effective to -20°F

Nonchloride formula inhibits corrosion and won't damage carpets, floors, or shoes. Safe for vegetation. Can be used before storms to prevent ice and snow from adhering to pavement.



Size	Mfr. Model	Item No.
5 gal.	CPL005PL-GR	**3YB71**

Poly Material Storage Bins

Weather-resistant bins safely store salt, sand, fertilizer, sports gear, or tools outdoors. Heavy-duty, UV-protected polyethylene construction. Storage Bins have a hinged lockable lid. Nos. 2FGV7 and 2FGV8 have forklift pockets, material scoop, and content placards.



No. 2FGV7

Volume Cap.	Load Cap.	H	W	D	Item No.
Storage Bins with Attached Lids					
5.50 cu. ft.	500 lb.	20"	24"	20"	**2FGV6**
11.00 cu. ft.	1000 lb.	27"	30"	27"	**2FGV7**
18.00 cu. ft.	1750 lb.	32"	34"	32"	**2FGV8**
Storage Bin Accessory					
Heavy-Duty Material Scoop					**4CAD1**

Pretreat and De-Ice Backpack Sprayer



Internal pressure chamber provides operational pressure of 90 psi to deliver pretreatment and de-icing liquids. Poly tank has easy-fill 4" opening, built-in straining basket, and Viton® O-rings and seals. Poly wand has a continuous spray feature. 2 poly and 1 brass nozzle provide stream and fan spray pattern choices.

Tank Cap.	Mfr. Model	Item No.
4 gal.	61808	**11C538**

Walk-Behind Electric Sprayer De-Icer



- Spray width: 3 to 4 ft.

Delivers a consistent spray pattern of any de-icing liquid from the main nozzle or alternate spray wand. 60 psi pump has On/Off switch for selective lane or spot spraying on sidewalks, stairways, and hard-to-reach areas. Has a poly tank, heavy-duty powder-coated steel frame and handle, stainless steel axle, and 13" pneumatic tires. Includes 12V battery with 110V charger.

Tank Cap.	Mfr. Model	Item No.
12 gal.	SL-80	**12A764**

Push Liquid Sprayer



- Cover large areas with up to 12 gal. of liquid

Features a 24V lithium ion battery for up to 1.75 hr. of continuous spraying. Movable spraying arm/boom sprays to the front, left, or right. 6"W opening for easy filling and cleaning access. Includes 20"L extension wand with shut-off, poly tank, and powder-coated steel frame. Can be used with insecticides, herbicides, liquid ice melts, and liquid fertilizers. Operating pressure: 40 psi. Spray/flow rate: .4 to .5 gpm.

Tank Cap.	Mfr. Model	Item No.
12 gal.	97900	**415J03**

Handheld and Shoulder Spreaders

Handheld broadcast spreaders feature 1-hole drop. Durable polypropylene construction resists corrosion. Shoulder spreader is ideal for areas where full-size spreaders can't go. Keeps product protected from weather. Trigger-controlled gate opening.



No. 483F40


No. 52PE53



No. 416P38

Cap.	Features	For Use With	Includes	Spread Width	Brand	Mfr. Model	Item No.
Handheld Broadcast Spreaders							
3.3 lb.	Easy-Crank Design, Lightweight	Seed, Fertilizer, Salt	—	5 to 12 ft.	Westward	8708A	**483F40**
3.5 lb.	—	All Granular Materials	—	1 to 4 ft.	Tolco	250105	**52PE53**
Shoulder Spreader							
25 lb.	680 cu. in. Capacity, Enclosed Container Keeps Product Protected From The Weather, Adjustable Gate with Trigger Control, Side Baffle Helps Direct Spread of Product, Padded Adjustable Strap	Seed Products, Granular Herbicides, Fertilizers	Padded Adjustable Shoulder Strap	8 ft.	Chapin	8700A	**416P38**

Push Broadcast and Drop Spreaders

Broadcast spreaders spray in a designated pattern from the unit. They can have a 'deflector' that limits the spray reducing where the output goes. Drop spreaders drop the item directly below the spreader for greater control of location (this could help prevent harm to the environment, surfaces, vegetation, concrete, etc.). 1-hole and 3-hole drop models are best for spreading finer materials such as grass seed and fertilizer. Spreaders with high-output (HO) drop are best for larger granular materials such as ice melt. Stainless steel axles resist corrosion. Drop spreaders are for sidewalk and other controlled spreading applications. Garden seeder helps prep rows for planting and accurately plants seeds at the right intervals.



No. 10F633



No. 6HAP7



No. 5NTR3



No. 49XW59



No. 4CAD2



No. 416P39

Cap.	Drop Type	Spread Width	Axle Type	Wheel Type	Wheel Dia.	Handle	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
Broadcast Spreaders												
30 lb.	1 Hole	12 ft.	Steel	Pneumatic	10"	Loop	Cable	Grass Seed, Fertilizer	Cover	Westward	—	**10F633**
	1 Hole	12 ft.	Stainless Steel	Pneumatic	10"	Loop	Cable	Grass Seed, Fertilizer, and Salt	Cover	Westward	—	**10F635**
70 lb.	1 Hole	10 to 12 ft.	Stainless Steel	Pneumatic	12"	Curved T	Rod		Hopper Screen and Cover	Westward	—	**10F636**
75 lb.	3 Hole	Up to 12 ft.	Steel	Pneumatic	13"	Fixed T	Rod		Top Screen and Cover	TurfEx	TS65SS	**6HKZ1**
	Broadcast	Up to 20 ft.	Stainless Steel	Pneumatic	13"	Powder Coated Steel	Manual Lever	Grass Seed, Granular Fertilizer, Herbicide, and Pesticide	Standard Hopper Cover	TurfEx	TS65	**6HAP7**
80 lb.	1 Hole	12 ft.	Stainless Steel	Pneumatic	12"	Loop	Rod	Grass Seed, Fertilizer, and Ice Melt	Hopper Screen and Cover	Westward	—	**4UHC9**
85 lb.	Broadcast	10 ft.	Steel	Pneumatic	10"	Fixed T	Cable	Fertilizer	—	Agri-Fab	45-0531	**437R85**
	Broadcast	10 ft.	Steel	Pneumatic	10"	Fixed T	Rod		—	Agri-Fab	45-0532	**437R86**
100 lb.	Broadcast	15 to 20 ft.	Stainless Steel	Pneumatic	14"	Fixed T	Stainless Slide Gate	Rock Salt, Ice Melt	Rain Cover, Steel Grate	Chapin	82500B	**416P40**
	HO	15 to 20 ft.	Stainless Steel	Pneumatic	14"	Adjustable T	Variable Gate Control		Conical Auger, Metal Gears	Westward	45FE32	**45FE32**
	HO	20 ft.	Steel	Knobby	10"	Fixed T	Cable	Salt and Rock Salt	Hopper Screen, Cover	SnowEx	SP-65	**5NTR3**
110 lb.	Broadcast	10 ft.	Steel	Pneumatic	10"	—	Cable	Fertilizer	Broadcast Spreader	Agri-Fab	45-0526	**437R87**
125 lb.	1 Hole	10 to 12 ft.	Stainless Steel	Pneumatic	14"	Fixed T	Rod	Grass Seed, Fertilizer, Ice Melt, and Rock Salt	Hopper Screen and Cover	Westward	—	**4UHD2**
	1 Hole	12 ft.	Stainless Steel	Pneumatic	14"	Fixed T	Rod	Grass Seed, Fertilizer, and Ice Melt	Hopper Screen and Cover	Westward	—	**4UHD1**
130 lb.	Broadcast	10 ft.	Steel	Pneumatic	13"	—	Variable Gate Control	Grass Seed, Fertilizer, and Salt	—	Agri-Fab	45-0462	**49XW59**
	Broadcast	10 to 12 ft.	Steel	Pneumatic	10"	Fixed T	Cable	Salt	Hopper Cover, Grate	Agri-Fab	45-0502	**437R89**
160 lb.	HO	20 ft.	Stainless Steel	Knobby	13"	Fixed T	Rod	Salt and Rock Salt	Hopper Screen, Cover	SnowEx	SP-85	**4CAD2**
Drop Spreaders												
160 lb.	HO	2.3 ft.	Stainless Steel	Pneumatic	13"	Fixed T	Rod	Salt and Rock Salt	Hopper Screen and Cover	SnowEx	SD-95	**5NTR2**
	Regulated Drop	2.3 ft.	Stainless Steel	Pneumatic	13"	Fixed T	Precise Drop	Rock Salt, Ice Melt	Top Screen and Cover	SnowEx	SD-95SS	**49XM93**
Garden Seeder												
3 lb.	Regulated Drop	1 to 4 ft.	Steel	Polyurethane	11"	Cushion Grips	(6) Seed Plate	(20) Seed Varieties	(6) Interchangeable Seed Plates, Protective Fabric Case	Chapin	8701B	**416P39**

Description	For Use With	Mfr. Model	Item No.
Westward Accessories			
Baffle System to Control Flow Direction	Westward Models	45FE33	**45FE33**
Salt Deflector Kit	No. 10F636	—	**10F637**
SnowEx Accessory			
Salt Deflector	No. 5NTR3	PDK-020	**49XM92**



SnowEx Push Broadcast Sprayer

Completely electric powered with the ability to spray salt brine through the spot spraying wand or front boomless nozzle. Ideal for stairs and sidewalks. Powered by a 12V electric pump, rated at 1 gpm at 60 psi, which includes a rechargeable battery that fully charges in 12 to 16 hr. Accessible vent cap for easy filling.

Cap.	Spray W	Axle Type	Wheel Type	Wheel Dia.	Handle	Flow Control	Includes	Mfr. Model	Item No.
12 gal.	Up to 4 ft.	Stainless Steel	Pneumatic	13"	Fixed T	Front Nozzle/ Wand Sprayer	Extra Wide Vented Cap, Spray Wand, Battery Charger	SL-80SS	**49XM94**



No. 437R88



No. 24W836



No. 5NTR1



No. 49XW60

Tow-Behind Broadcast Spreaders

Agri-Fab SnowEx

These spreaders feature enclosed gears, powder-coated steel tube frames, and pneumatic tires that roll easily over most terrain. No. 24W836 features ground drive, adjustable steel spinner, and easy clevis mounting. No. 5NTR1 has powder-coated axle, sealed bearings, 12VDC electric gate, high-output auger feed, and fits a pin hitch.

Cap.	Drop Type	Mount Type	Spread W	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
85 lb.	Broadcast	Pin Hitch	10 ft.	Cable	Fertilizer	Broadcast Spreader	Agri-Fab	45-0530	**437R91**
110 lb.	Broadcast	—	10 ft.	Cable	Fertilizer	Universal Hitch	Agri-Fab	45-0527	**437R88**
130 lb.	Broadcast	—	10 ft.	Variable Gate Control	Grass Seed, Fertilizer, and Salt	—	Agri-Fab	45-0463	**49XW60**
175 lb.	Broadcast	Pin Hitch	10 to 12 ft.	Rod	Fertilizer	Grate and Hopper Cover	Agri-Fab	45-03297	**437R92**
960 lb.	HO	Clevis Hitch	Up to 40 ft.	Manual	Salt	14 ft. Gate Cable	SnowEx	SP-1225G	**24W836**
3500 lb.	HO	Pin Hitch	Up to 30 ft.	Electric	Salt	Hopper Screen and Cover	SnowEx	SP-7000	**5NTR1**



No. 8XTT1



No. 5NTR0



No. 5NTP9

Mounted Broadcast Spreaders

Fimco TurfEx

Rear-mounted spreaders with corrosion-resistant poly hoppers use 12VDC variable-speed motors to adjust the spread width area. No. 8XTT1 includes On/Off drop switch, mounting brackets, and hardware. Power train-operated spreader No. 5NTR0 has a 3-pt. hitch and manually adjustable flow rate. Rear-mounted spreader No. 5NTP9 has a powder-coated steel frame, 2" receiver hitch, and hopper cover. Features electric-controlled flow gate and calibrated drop.

Cap.	Drop Type	Mount Type	Spread W	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
ATV Rear-Mounted									
12VDC									
145 lb.	1 Hole	—	5 to 45 ft.	Variable Speed	Fertilizer, Grass Seed, Ice Melting Pellets, Granular Fungicides, Herbicides and Insecticides, Bait and Powders	Motor Speed Control	Fimco	ATV-DMS-12V	**8XTT1**
Hitch-Mounted									
PTO									
418 lbs.	Calibrated HO	3-Point Hitch	Up to 30 ft.	Cable	Seed and Fertilizer	Cover	TurfEx	TS700P	**5NTR0**
Hitch-Mounted Electric									
12VDC									
240 lbs.	Calibrated HO	2" Receiver Hitch	Up to 20 ft.	Electric	Seed and Fertilizer	Cover, Deflector Kit	TurfEx	TS300EG-1	**5NTP9**







Square-Point Shovels—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Standard						
Fiberglass	27"	9¼"	11¼"	14	Westward	**12V171**
Hardwood	30"	9¾"	11¾"	14	Westward	**1WG34**
Hardwood	40"	14.5"	15.5"	14	Razor-Back	**39FZ98**
Nonconductive						
Fiberglass	27"	9⅞"	11½"	14	Nupla	**4GFE7**
Mud Sifting						
Fiberglass	29"	9½"	11½"	14	Seymour Midwest Toolite	**3PGD6**
Straight Grip						
Standard						
Ash	48"	11¼"	13¾"	14	Westward	**6YU35**
Ash	48"	11½"	13½"	16	Westward	**4LVT1**
Fiberglass	47½"	9¾"	11"	14	Westward	**3YU83**
Fiberglass Cushion Grip	48"	9½"	11½"	14	Seymour Midwest Structron	**49DG92**
Nonconductive						
Fiberglass	48"	9⅞"	11½"	14	Nupla	**4GFE6**
Mud Sifting						
Fiberglass	48"	9½"	11½"	14	Seymour Midwest Toolite	**3PGD4**
Ergonomic						
Fiberglass Poly Coated	47"	10"	11¼"	16	Westward	**46MP81**



Replacement Shovel Handles

Handle Type	Handle Material	Handle L	Fits	Brand	Item No.
Straight	Wood	48"	Open Back Shovels	True Temper	**15F194**
	Poly-Coated Fiberglass	48"	Nupla® Shovels	Westward	**4LVR4**
	Poly-Coated Fiberglass	48"	Nupla® Shovels	Nupla	**3MD34**



Nonsparking Edging Spade and Scoop Shovel

These nonmagnetic, corrosion-resistant tools feature handles made of sturdy fiberglass. Spade No. 49UG97 has D-grip and is perfect for digging, edging, transplanting small bushes and trees, cutting sod and small roots, dividing perennials, and trenching. Shovel No. 8RJC5 is ideal for scooping dirt, mulch, snow, and grain.

Description	Handle L	Blade W	Blade L	Item No.
Edging Spade	26½"	7¼"	11"	**49UG97**
Scoop Shovel	43½"	14"	17"	**8RJC5**







Round-Point Shovels—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Mud Sifting						
Fiberglass	29"	9½"	11½"	14	Seymour Midwest Toolite	**3PGD2**
Nonconductive						
Fiberglass	27"	9"	11½"	14	Nupla	**4GFE5**
Shark Tooth, Ergonomic						
Fiberglass	40"	9"	11"	14	Seymour Midwest Structron	**31MJ63**
Standard						
Fiberglass	27"	8¼"	11¼"	14	Westward	**12V170**
Fiberglass	29"	9½"	11½"	14	Seymour Midwest Structron	**31MJ61**
Hardwood	30"	8½"	11¾"	14	Westward	**1WG33**
Wood	12"	6"	8"	16	Seymour Midwest	**31MJ60**
Straight						
Ergonomic						
Poly-Coated Fiberglass	48"	9"	11½"	16	Nupla	**3MD54**
Mud Sifting						
Fiberglass	48"	9½"	11½"	14	Seymour Midwest Toolite	**3PGC9**
Nonconductive						
Fiberglass	48"	9"	11½"	14	Nupla	**4GFE4**
Standard						
Ash	48"	8½"	11½"	14	Westward	**1WG31**
Ash	48"	8¾"	11"	14	Westward	**4LVT2**
Ash	48"	9"	9¾"	14	Westward	**4LVT3**
Fiberglass	48"	9"	11"	14	Westward	**3YU82**
Fiberglass Cushion Handle	48"	9½"	11½"	14	Seymour Midwest Structron	**49DG91**

Ceremonial Round-Point Shovels

Both have D-grip hardwood handles. No. 39FZ94 has a steel blade with chrome finish. No. 9XEM2 has a chrome blade.



Handle L	Blade W	Blade L	Brand	Item No.
28"	6"	9.5"	Razor-Back	**39FZ94**
29"	9"	11"	Seymour Midwest	**9XEM2**

Folding Spade Shovels

Compact folding spades have glass-filled nylon handles, and a 6"W serrated blade that lets you saw and chop through tough roots while digging. Nos. 4RDT9 and 4VAH6 have a boron-steel head. No. 23NK34 has a forged steel head. No. 45NW05 glass-filled nylon handle folds at the touch of a button.



Description	Closed L	Overall L	Blade L	Item No.
D-Grip Folding Spade	9¼"	23¾"	8⅜"	**4RDT9**
D-Grip Folding Spade w/Sheath	9¼"	23¾"	8⅜"	**23NK34**
D-Grip Folding Spade w/Pick	9⅖"	23⅖"	8⅜"	**4VAH6**
Straight Folding Spade	9¼"	16½"	6"	**45NW05**

WESTWARD · SEYMOUR MIDWEST · STRUCTRON · RAZORBACK



No. 4LVR8

Spades—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
Drain Spade						
D-Grip						
Ash	30"	6"	16"	14	Westward	**4LVR8**
Fiberglass	27"	5¾"	14"	14	Westward	**12V172**
Fiberglass	29"	5½"	14"	14	Seymour Midwest Structron	**49DG93**
Poly-Coated Fiberglass	27"	6"	14"	14	Westward	**4LVR6**
Straight						
Fiberglass	46¾"	5¾"	14"	14	Westward	**12V173**
Garden Spade						
D-Grip						
Ash	30"	6¾"	12"	14	Westward	**4LVR9**
Fiberglass	29"	7"	12"	14	Westward	**3YU80**
Straight						
Fiberglass	46¾"	7¼"	12"	14	Westward	**12V168**
Landscaper Spade						
D-Grip						
Steel	26"	7"	15"	14	Razor-Back	**13F612**
Steel	29"	6"	13"	—	Razor-Back	**39E759**
Roofer's Spade						
Straight						
Hardwood	48"	7⅜"	12"	14	Razor-Back	**39FZ96**

WESTWARD

V-Type Trenching Shovels—Steel Blade



No. 12U497

Handle Material	Handle L	Blade W	Blade L	Gauge	Item No.
Hardwood	48"	5"	11¼"	14	**12U497**
Hardwood	48"	4"	11¼"	14	**12U496**

GA GRAINGER APPROVED · Buyers PRODUCTS COMPANY

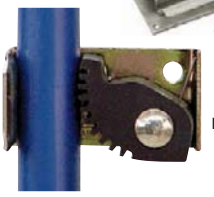
Tool Holders

- Predrilled

No. 6A111 is a rust-resistant, brass-plated clamp that holds hoses and handles up to 1⅛" dia. No. 3ULJ5 is a heavy-duty stainless spring mechanism that secures shovels or other round-handled tools.



No. 3ULJ5



No. 6A111

For Use With	Material	L	Brand	Item No.
Hoses and Handles	Brass Plated With Rubber Grips	2½"	GA	**6A111**
Shovels or Round Handled Tools	Stainless Steel	7½	Buyers Products	**3ULJ5**

Shovel and Handle Types

SHOVEL TYPES

Round and Square
Used for digging and moving materials. These shovels usually have a long, straight handle; giving you more leverage when digging. The larger blade size comes with a pointed or rounded tip and is ideally used for digging, moving, breaking, and turning soil applications.

Scoop
Primarily used for moving grain material. Feature deeper basin that helps prevent spillage and has a deep enough edge to help snow removal.

Spade
Used for removing material and creating trenches of different shapes. Spades usually have a small, straight, flat blade and a shorter shaft. They are primarily used for slicing, lifting, moving, edging, and loosening soil and roots.

Trench
Similar to spades and are used to dig narrow trenches.

HANDLE TYPES
Come in straight or D-shapes and are made from wood, fiberglass, steel, and aluminum.

WESTWARD · SEYMOUR MIDWEST · STRUCTRON · RAZORBACK · NUPLA



No. 1WG35

Scoops—Aluminum Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
D-Grip					
Fiberglass	27"	14¾"	19"	Westward	**12U492**
Fiberglass	29"	15¼"	19"	Seymour Midwest Structron	**49DG96**
Poly-Coated Fiberglass	26¼"	13½"	18½"	Westward	**3YU77**
Poly-Coated Hardwood	29½"	13½"	18¾"	Westward	**1WG35**
Straight					
Hardwood	62"	14½"	18"	Razor-Back	**20JZ13**
Straight, Ergonomic					
Poly-Coated Fiberglass	48"	14½"	17¾"	Nupla	**3MD37**
Poly-Coated Fiberglass	48"	14½"	17¾"	Westward	**4LVR5**

WESTWARD · RAZORBACK



No. 4LVR7

Scoops—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Western						
Fiberglass	27"	14½"	19"	16	Westward	**4LVR3**
Eastern						
Ash	27"	11"	15"	16	Westward	**4LVR7**
Straight						
Western						
Fiberglass	46¾ "	14¼"	17⅞"	16	Westward	**12U489**
Standard						
Fiberglass	43"	11¼"	13¾"	14	Westward	**12U493**
Hardwood	48"	14½"	11½"	14	Razor-Back	**52JM13**

NUPLA · SEYMOUR MIDWEST · Toolite® · WESTWARD · TRUE TEMPER



No. 45GV20

Scoops—Poly and Nonsparking Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
D-Grip					
Nonsparking					
Fiberglass	27"	14½"	20½"	Nupla	**4HGC3**
Sifting					
Polypropylene	27"	14"	17"	Seymour Midwest Toolite	**3PGD8**
Standard					
Wood	30"	14 25/64"	18¾"	Westward	**45GV20**
Straight					
Nonsparking					
Fiberglass	48"	14½"	20½"	Nupla	**4HGC2**
Standard					
Hardwood	48"	14¼"	17¾"	True Temper	**5GTN4**

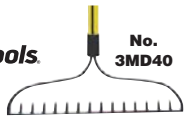


WESTWARD

Long-Handled Tool Rack

Powder-coated steel rack features 10 convenient, movable hooks to store tools. Includes 4 casters with brakes. Black color.

Overall H	Overall D	Overall W	Load Rating	Item No.
75½"	24"	38"	240 lb. (120 lb. per Side)	**48GE61**



Rakes

Type/ Handle Material	Handle L	Tine Material	W of Tines	L of Tines	No. of Tines	Brand	Item No.
Asphalt/Road							
Aluminum	36"	Aluminum	36"	1"	24	Razor-Back	45NC78
	66"	Aluminum	30"	1"	20	Seymour Midwest Rake	41AA82
	79"	Aluminum	36"	4"	24	Westward	2MVR9
Fiberglass	60"	Steel	18"	4"	16	Westward	3YU79
Seal-Coated Wood w/Chrome Plating	66"	Steel	17¾"	4"	16	Jackson	5W758
Vinyl-Coated Fiberglass	60"	Steel	16¼"	1½"	14	Nupla	3MD38
Wood	52"	Steel	17¾"	4"	14	Razor-Back	20KZ08
	66"	Steel	16⅝"	3"	16	Jackson	1MDY2
Bow							
Fiberglass	60"	Steel	16"	3"	16	Westward	3YU78
	60"	Forged	16¼"		16	Seymour Midwest Structron	8ZCJ5
	60"	Forged Steel	16¼"	3¼"	16	Seymour Midwest Structron	49DG95
	31¾"	Steel	13"	10"	16	STANLEY	468F48
Seal-Coated Wood	60"	Steel	16½"	3"	16	Westward	1WG36
	60"	Steel	16¾"	3¼"	16	Jackson	4W030
Vinyl-Coated Fiberglass	60"	Steel	16¼"	2½"	16	Nupla	3MD40
Lake-Skims Floating Aquatic Vegetation and Algae From Water and Cleans the Shoreline							
Aluminum	132"	Aluminum	36"	2½"	36	Seymour Midwest Rake	3RFN4
Landscape							
Aluminum	66"	Aluminum	24"	2½"	24	Seymour Midwest Rake	8CLL7
	66"	Aluminum	30"	2½"	30	Razor-Back	49AF62
	66"	Aluminum	48"	2½"	48	Seymour Midwest Rake	9VZE1
Powder-Coated Aluminum	66"	Aluminum	36"	2½"	36	Razor-Back	48UF78
Lawn							
Aluminum	54"	Steel	24"	13"	24	Seymour Midwest Rake	9LDH8
Vinyl-Coated Aluminum	48"	Steel	8"	7½"	11	True Temper	5GEA6
	48"	Steel	18"	8"	25	True Temper	5GEA5
Vinyl-Coated Steel	48"	Steel	18"	7"	23	Seymour Midwest	32MJ58
Wood	48"	Poly	24"	10"	11	True Temper	49AF69
	48"	Poly	24"	2½"	26	Union Tools	39GA10
	48"	Poly	30"	2½"	30	Union Tools	39GA12
	48"	Poly	30"	11"	30	Westward	49NV76
	54"	Steel	23½"	15½"	24	Westward	1WG30
	47¼"	Poly	24"	10¾"	26	Westward	46MP82
Shrub							
Wood	42"	Poly	8"	4½"	14	Seymour Midwest Rake	32MJ62
	43"	Poly	8"	1½"	15	Union Tools	39GA05

Hoes



General Purpose—Use for weeding, planting, and other gardening and landscaping activities.

Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
General Purpose					
Plastic	12"	3 47/64"	9 29/64"	STANLEY	425R89
Fiberglass	31¼"	6 1/64"	5 53/64"	STANLEY	468F52
Fiberglass	54"	6"	4"	Westward	2MVR7
Wood	54"	6¼"	4¼"	Razor-Back	39GA08
Wood	59½"	6"	4"	Westward	2MVT3
Vinyl-Coated Fiberglass	60"	7"	5"	Nupla	3MD42
Loop					
Aluminum	60"	4"	6"	Seymour Midwest	31MJ64
Loop with Cultivator					
Aluminum	60"	4"	6"	Seymour Midwest	31MJ65



Digging and Pry Bars

Digging Bars provide leverage while digging and loosening soil or concrete. Pencil-point models make soil penetration easier. Pry Bars are suitable for prying, levering, and cutting roots.

Overall L	Type	Head Material	Handle Material	Handle	Brand	Item No.	
Digging Bars							
51"	Standard	Carbon Steel	Carbon Steel	Ball Grip	Westward	493V61	
72"	Pencil Point	Steel	Steel	Chisel End	Westward	20C887	
72"	Pencil Point	Cast Iron	Fiberglass	End Cap Grip	Nupla	4GFF8	*
Pry Bars							
48"	Wedge	Cast Iron	Fiberglass	End Cap Grip	Nupla	4GFF9	*
72"	Wedge	Cast Iron	Fiberglass	End Cap Grip	Nupla	4GFG1	*
72"	Wedge	Steel	Fiberglass	End Cap Grip	Westward	20C888	

** Certified nonconductive.*



Forks

Type/ Handle Material	Handle Type	Handle L	W of Tines	L of Tines	No. of Tines	Brand	Item No.
Cultivator							
Aluminum	Straight	60"	5"	4½"	4	Seymour Midwest	31MJ66
Ensilage							
Wood	D-Grip	30"	14¾"	17"	10	Westward	2MVT6
Wood	Straight	48"	¼"	10"	10	True Temper	49AF68
Manure							
Wood	Straight	53½"	12¾"	13¾"	6	Westward	2MVR6
Wood	Straight	48"	10"	12"	6	True Temper	2WE79
Wood	Straight	60"	⅜"	10"	4	Razor-Back	39GA06
Potato							
Wood	Straight	54"	8¼"	8½"	4	Seymour Midwest	32MJ61
Wood	Straight	54"	⅜"	6"	4	Razor-Back	39GA11
Spading							
Fiberglass	D-Grip	29"	6¾"	10⅜"	4	Westward	2MVT5
Wood	D-Grip	30"	1 1/16"	11"	4	Razor-Back	39GA09
Wood	D-Grip	30"	6¾"	10½"	4	Westward	2MVT2



Mattocks and Picks

Hand tools with dual-function heads are excellent for breaking up rocky or hard surfaces such as concrete and packed earth. No. 22F045 has ductile iron head; others have steel head.

Cutter Mattocks—Have a hoe on 1 end and a cutter blade on the other, to cut and dig roots and cultivate soil.

Pick Mattocks—Broad mattock blades break up hardened soil; particularly good for burrowing, trenching, and hoeing. Pick points penetrate soil.

Railroad Picks—Designed to break up hard, rocky soil and similar materials. Each has chisel point on 1 end. Nos. 1THA8 and 4GFF2 have a pick point on the other, No. 20C884 has a ¾" point on the other. No. 4GFF2 is nonconductive.

Head Weight	Overall L	Handle	Brand	Item No.
Cutter Mattocks				
5 lb.	36"	Fiberglass w/Molded Grip	Nupla	1THA7
Cutter Mattocks Head Only				
5 lb.	16"	—	True Temper	52JM16
Pick Mattocks				
5 lb.	36"	Hickory Wood	Westward	20C883
5 lb.	36"	Fiberglass w/Textured Grip	Westward	20C885
5 lb.	36"	Fiberglass	Nupla	4GFF1
Tiller Mattocks				
2 lb.	26"	Hickory	Vaughan	22F045
Railroad Picks				
5 lb.	36"	Fiberglass w/Molded Grip	Nupla	1THA8
5 lb.	36"	Fiberglass	Nupla	4GFF2
6 lb.	36"	Hickory Wood	Westward	20C884
22 oz.	13"	Steel	Vaughan	38NF20
Replacement Handle				
For Nos. 20C883, 20C884, or 20C885	36"	Fiberglass	Westward	20C886



Stand Up Weeder

Improved ergonomics with long handle to prevent stooping and bending with knees. 4 serrated claws to pull weeds out of the ground by the roots. Step onto redesigned foot platform to help you break through soil layer. Lightweight aluminum shaft.

Handle L	Blade L	Blade Material	Item No.
39"	4"	Stainless Steel	49AJ37

WESTWARD

Collapsible Containers

No. 3VB57



Polyethylene containers can be used for storage, leaf collection, or waste disposal. Collapse to 1½"H x 19" dia. Padded handles for comfortable carrying. Internal support spring holds container open. Green color.

Cap.	Dia.	H	Item No.
27 gal.	19"	24"	3VB57
33 gal.	19"	32"	3VB58

No. 5NLJ3



BILLY GOAT

Truck Debris Loader

Ideal for picking up cans, grass clippings, leaves, litter, mulch, plastic bottles, and other bulk items. Clear, flexible intake hose allows for visual inspection and quick removal of hose clogs. Features a dual 4-blade impeller with serrated blades to shred debris for up to 12:1 waste reduction. Steel housing has a replaceable liner for long life and durability. Automatic shut-off when intake hose is disconnected to help improve operator safety. Multiple mounting options.

Description	Item No.
Debris Loader	
Honda Gas Engine, 13HP, Recoil Start with 8" x 10-ft. Intake Hose	5NLJ3
Accessories	
Swing Away Hitch for Curbside Pickup	5NLJ4
Tailgate Hanging Bracket Kit	5NLJ5
Discharge Height Extension Kit, 15⅝"H	5NLJ6
Discharge Hose Extension Kit, 5 ft.	5NLJ7



No. 10G167



No. 2MVU8



No. 6YC67



No. 1MRE8

WESTWARD Jackson TRUE TEMPER slime

Wheelbarrows and Accessories

Knobby tires provide deep traction for maximum contact. Ribbed tires provide positive steering on hard-packed surfaces.

Steel Tray Wheelbarrows—Drawn trays are pressed from heavy-gauge steel. 4" large curl, ball bearing wheels, and durable chip-resistant finish for added strength. Include cross supports, leg brace, and fully balanced to help prevent accidental tipping and spillage. Models with solid polyurethane tires can run over sharp metal, glass, and even nails.

Poly Tray Wheelbarrows—Seamless polyethylene trays are durable, easy to clean, and corrosionproof. All-steel front tray braces, cross strips, and "H" braces provide extra strength. Steel leg stabilizers help make them tip resistant.

ACCESSORIES

Solid Wheelbarrow Tires—Eliminate changing flat tires. Universal fit 6" ball bearing hub will fit any wheelbarrow.

Slime® Smart Tubes—Prefilled with a precise volume of sealant to seek out and seal punctures. Prevent flats up to ⅛".

Description	Holding Cap.	Handle Material	Tire Size	Tire Tread	Brand	Item No.
Steel Tray Wheelbarrows						
Seamless Steel Tray with Single Solid Polyurethane Wheel	6 cu. ft.	Steel	4.00/4.00-8	Knobby	Westward	2MVU6
Seamless Steel Tray with Single Pneumatic Rubber Wheel	6 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	10G166
Seamless Steel Tray with Single Solid Polyurethane Wheel	6 cu. ft.	Hardwood	4.00/4.00-8	Ribbed	Westward	10G167
Folded Steel Tray with Single Pneumatic Rubber Wheel	6 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	10G168
Folded Steel Tray with Dual Pneumatic Rubber Wheels	6 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	20KP45
	8 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	20KP46
Poly Tray Wheelbarrows						
Single Pneumatic Rubber Wheel	6 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	2MVU7
Dual Pneumatic Rubber Wheels	8 cu. ft.	Hardwood	4.00/4.00-8	Ribbed	Westward	10G165
	10 cu. ft.	Hardwood	4.00/4.00-8	Knobby	Westward	2MVU8
Solid Wheelbarrow Tires						
Polyurethane Foam	—	—	4.00/4.00-8	Ribbed	Westward	10G169
Rubber Skinned Foam Rubber	—	—	3.75/4.00-8	Ribbed	Jackson	6YC67
Polyurethane Foam	—	—	4.00/4.00-8	Knobby	Westward	10G170
Rubber Skinned Foam Rubber	—	—	3.75/4.00-8	Knobby	True Temper	4GU60
Slime® Smart Tubes						
Pneumatic Tire Flat Prevention	—	—	4.80/4.00-8	—	Slime	1MRE8
	—	—	4.10/3.50-6	—	Slime	1MRE9



No. 11K167



No. 49XM97

Powered Backpack Sprayers

solo® BLACK&DECKER TURFEX

The ergonomic shape and thick, padded straps with hip belt keep user comfortable during large spraying jobs. Features wand holder and level fill markings on the tank. No. 11K167 features a padded backrest with antivibration system and pistol-grip handle.

Description	Tank Cap.	Hose L	Nozzle Type	Brand	Item No.
Gas Powered					
2-Cycle 66.5cc Gas Powered	3 gal.	43"	Adjustable Mist	Solo	11K167
Battery Powered					
20V Maintenance Free Lithium-ion Battery	4 gal.	42"	Adjustable Cone, Fan	Black & Decker	35HX49
12V Maintenance Free Lithium-ion Battery	5 gal.	60"	Flat Fan	Solo Inc.	48XL86
Air Powered					
Dual Stage Diaphragm Pump for Tank Agitation	4 gal.	54"	Adjustable, Flat Fan	TurfEx	49XM97
Effective Piston Pump with 4-stage Pressure Regulator.	4 gal.	48"	—	Solo	53UE04

No. 2TRG5



No. 35HX48



No. 3JEK7



solo® Field KING WESTWARD CHAPIN

Backpack Sprayers

Lawn/Garden models are ideal for spraying fertilizers. Nos. 3LGG7, 6FJE2, 14U074, 2TRG4, and 3JEK7 can be used with wettable powders. Bleach and Disinfectant models can be used to help control algae, mold, and mildew. Sprayer accessories available on Grainger.com®.

Tank Cap.	Hose L	Wand Material	Nozzle Type	Brand	Mfr. Model	Item No.
Lawn/Garden						
3 gal.	48"	Polypropylene	Adjustable Cone, Fan	Solo	473D	3LGG7
3 gal.	48"	Polypropylene	Adjustable Cone, Fan	Solo	473P	3LGG5
4 gal.	50"	Polypropylene	Adjustable, Flat Fan and Foaming	Field King	190350	16X104
4 gal.	48"	Polypropylene	Cone, Fan	Westward	—	36N340
4 gal.	48"	Polypropylene	Adjustable Cone, Fan	Chapin	61500	11K008
4 gal.	48"	Plastic	Adjustable Cone, Jet	Chapin	60100	416P32
4 gal.	48"	Plastic	Adjustable Cone, Fan	Chapin	61505	416P42
4 gal.	50"	Polypropylene	Adjustable (2) Flat Fans and Foaming	Field King	190328	6FJE2
4 gal.	50"	Stainless Steel	Adjustable, Flat Fan and Foaming	Field King	190348	14U074
4 gal.	48"	Polypropylene	Adjustable Cone, Fan	Chapin	61800	2KDY1
4 gal.	48"	Polypropylene	Adjustable Cone, Fan	Chapin	64800	2TRG4
4 gal.	48"	Chrome, Stainless Steel	Adjustable Cone, Fan	Chapin	61900	2TRG5
4 gal.	48"	Brass	Adjustable Cone, Fan	Chapin	62000	2TRG2
4 gal.	42"	Stainless Steel	Adjustable Cone, Fan	Chapin	63900	35HX48
Bleach and Disinfectants						
4 gal.	48"	Polypropylene	Adjustable Cone	Chapin	61575	11K567
4 gal.	48"	Polypropylene	Adjustable, Flat Fan, Jet Stream, and Hollow Cone	Solo	475-B	3JEK7







No. 39E775

CHAPIN solo® ★WESTWARD
TurfEx D.B.Smith

Insecticide and Garden Sprayers

Portable sprayers are ideal for smaller jobs and suitable for weed control, pesticides, and fertilizing. No. 6KY32 includes a fogging nozzle. Nos. 3JEH7 and 3JEH9 include 4 nozzles. Nos. 21AC29 and 21AC30 include adjustable brass cone nozzle. No. 416P43 features an in-tank filter. Nos. 14U075 and 14U076 include 5 nozzles and an inline filter.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	In Tank Filter	Brand	Item No.
Insecticide						
Polyethylene Tank						
1 gal	34 in	Polypropylene	Fine Misting	Yes	Chapin	**6KY32**
1 ½ gal	48 in	Polypropylene	Adjustable, Flat Spray	Yes	Solo	**3JEH7**
2 ¼ gal	48 in	Polypropylene	Adjustable, Flat Spray	Yes	Solo	**3JEH9**
Stainless Steel Tank						
1 ½ gal	48 in	Brass	Fan, Injector	No	Chapin	**39E761**
Lawn and Garden						
Polyethylene Tank						
¼ gal	Hose Not Included	Wand Not Included	Adjustable	Yes	Solo	**41AA37**
½ gal	Hose Not Included	Polypropylene	Adjustable Cone	Yes	Chapin	**3LGF4**
1 gal	34 in	Polypropylene	Adjustable Cone	Yes	Chapin	**2ZV91**
1 gal	34 in	Polypropylene	Adjustable Cone	Yes	Westward	**12U469**
1 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**21AC29**
1 gal	42 in	Polypropylene	Adjustable Cone	Yes	Westward	**12U480**
2 gal	34 in	Polyethylene	Adjustable Cone	Yes	Chapin	**6PKJ5**
2 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**35HX46**
2 gal	46 in	Brass	Adjustable Cone	Yes	Westward	**39D762**
2 gal	48 in	Poly		Yes	Chapin	**416P43**
2 gal	54 in	Stainless Steel	Adjustable, Flat Fan	No	TurfEx	**49XM96**
3 gal	34 in	Polyethylene	Adjustable Cone	Yes	Chapin	**6PKJ6**
3 gal	36 in	Polypropylene, Viton®		Yes	Chapin	**3LGE3**
3 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**21AC30**
4 gal	48 in	Polyproylene	Adjustable, Flat Fan, Jet Stream, and Hollow Cone	Yes	Solo	**3JEJ4**
Stainless Steel Tank						
2 gal	42 in	Brass	Adjustable Cone	No	Chapin	**6KY39**
2 gal	42 in	Brass	Adjustable cone	Yes	Chapin	**41AA36**
Steel Tank						
2 gal	42 in	Brass		No	Chapin	**3JEV5**
3 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**41AA34**
Commercial-Grade Lawn and Garden/Insecticide Cleaning/Sanitizing						
Polyethylene Tank						
2 gal	50 in	Polypropylene	Adjustable, Flat Fan and Foaming	No	D.B. Smith	**14U075**
3 gal	50 in	Polypropylene	Adjustable, Flat Fan and Foaming	No	D.B. Smith	**14U076**
Professional Heavy-Duty						
3 gal	50 in	Polypropylene	Adjustable	No	D.B. Smith	**39E775**

SMITH INDIAN FIRE PUMP


No. 3EJT3

Fire Pumps

Excellent pumps to suppress and prevent fires in remote locations. Dual-cone nozzle allows change from straight stream to cone spray without tools. Hold 5 gal.

Features	Tank Material	Hose Length	Item No.
Padded Strap and Lumbar Support	Polyethylene	50"	**22FH65**
Collapsible Tank	Vinyl	48"	**8NEZ9**
Lumbar Support and Carrying Handle	Polyethylene	50"	**3EJT2**
Tank with Ventilated Backrest, Polypropylene Straps, and Carrying Handle	Galvanized Steel	30"	**3EJT3**
	Stainless Steel	30"	**3EJT4**



No. 30HE90



No. 416P34


No. 12U478

CHAPIN D.B.Smith ★WESTWARD solo®

Janitorial/Sanitation Sprayers

Ideal for use with cleaning agents. Sprayers feature poly tank, adjustable cone nozzle, and Viton® seals and gaskets.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.	
Bleach Janitorial/Sanitation Sprayer						
Polyethylene Tank						
1 gal.	34"	Polypropylene	Adjustable Cone	Chapin	**3EJR8**	
Foaming Janitorial/Sanitation Sprayers						
2 gal.	36"	Polypropylene	Adjustable, Foaming	D.B. Smith	**30HE90**	
½ gal.	Hose Not Included	Polypropylene	Adjustable	Chapin	**2TRH3**	
Plastic Tank						
¼ gal.	Hose Not Included	Plastic	Adjustable Hose End, Foaming	Chapin	**416P34**	*
Janitorial/Sanitation Sprayers						
1 1/32 gal.	Hose Not Included	Plastic	Adjustable Foaming, Fan, Cone	Chapin	**416P41**	
Polyethylene Tank						
1 gal.	34"	Polypropylene	Adjustable Cone	Westward	**12U478**	
1 gal.	42"	Polypropylene	Adjustable Cone	Westward	**12U481**	
1 gal.	42"	Polypropylene	Adjustable	Chapin	**2TRG8**	
1 gal.	60"	Polyethylene	Foaming	Chapin	**52XH72**	
2 gal.	42"	Polypropylene	Adjustable Cone	Westward	**12U475**	
2 gal.	42"	Polypropylene	Adjustable	Chapin	**2TRG9**	
2 gal.	60"	Polyethylene	Foaming	Chapin	**52XH73**	
3 gal.	42"	Polypropylene	Adjustable Cone	Westward	**12U476**	
3 gal.	42"	Polypropylene	Adjustable	Chapin	**2TRH1**	
3 gal.	120"	Polyethylene	Foaming	Chapin	**52XH74**	
HDPE Tank						
1 21/64 gal.	48"	Polypropylene	Adjustable Cone	Solo	**53UE01**	†
1 21/64 gal.	48"	Polypropylene	Adjustable Cone	Solo	**53UD99**	
1 27/32 gal.	48"	Polypropylene	Adjustable Cone	Solo	**53UE03**	†
1 ½ gal.	48"	Polypropylene	Adjustable Cone	Solo	**53UE02**	
1 1/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD96**	†
1 1/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD95**	
1 3/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD94**	†
1 3/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD93**	
1 7/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD98**	†
1 7/32 gal.	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD97**	

**** Seal/gasket material is nitrile. † Seal/gasket material is EPDM. All others are Viton®.***

CHAPIN ★WESTWARD
D.B.Smith solo®


No. 39D763

Cleaning/Degreasing Sprayers

Sprayers are acid- and chemical-resistant. Suitable for indoor/outdoor cleaning.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.	
General Use Sprayers						
Plastic Tank						
¼ gal.	—	Polyethylene	Metering Dial	Chapin	**416P33**	*
Polyethylene Tank						
2 gal.	46"	Polyethylene	Adjustable Cone	Westward	**39D763**	
3 gal.	46"	Polyethylene	Adjustable Cone	Westward	**39D764**	
3 gal.	46"	Brass, Polyethylene	Adjustable Cone	Westward	**39D765**	
Industrial Use Sprayers						
Polyethylene Tank						
1 gal.	36"	Polypropylene	Adjustable, Foaming	D.B. Smith	**30HE89**	
2 gal.	42"	Polyethylene	Adjustable Cone	Chapin	**35HX47**	
2 gal.	48"	Plastic	Adjustable, Jet, Fan, Cone	Solo	**16T951**	
3 gal.	36"	Brass	0.5 gpm, Fan	Chapin	**21AC36**	
3 gal.	42"	Polyethylene	Adjustable Cone	Chapin	**21AC35**	
Stainless Steel Tank						
2 gal.	42"	Brass	Adjustable Cone	Chapin	**6Z169**	
3 gal.	42"	Brass	Adjustable Cone	Chapin	**4W499**	
Pump Sprayers						
Polyethylene Tank						
31/64 gal.	Hose Not Included	Brass	Adjustable Cone	Westward	**12U473**	
½ gal.	Hose Not Included	Brass, Polypropylene	Adjustable	Chapin	**6KY28**	

**** Seal/gasket material is nitrile. All others are Viton®.***



No. 4Z122



No. 6PKJ4



No. 39D767

Concrete and Etching/ Acid Staining Sprayers

Concrete—Spray solutions up to 30% to 35% solids. Chemical-resistant models are resistant to acetone, naphtha, xylene, and toluene.

Etching/Acid Staining—Use for staining concrete. Acid- and chemical-resistant seals and gaskets.

Tank Cap.	Tank Material	Hose L	Wand Material	Nozzle Type	Brand	Item No.
Concrete						
3 gal	Polyethylene	36 in	Brass	Adjustable	Chapin	**21AC33**
3 gal	Polyethylene	60 in	Brass, Polypropylene	¼ GPM Fan Nozzle and Adjustable Poly Nozzle	Chapin	**41AA35**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**4Z122**
Concrete with Schraeder Valve for Compressed Air Hook-Up						
3 gal	Steel	36 in	Brass	—	Chapin	**3JEN6**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**6PKJ4**
Concrete (Chemical Resistant)						
3 gal	Polyethylene	48 in	Brass	Adjustable	Chapin	**21AC31**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**2ZV89**
3 ½ gal	Stainless Steel	48 in	Brass	Adjustable	Chapin	**2TRG7**
Etching/Acid Staining						
2 gal	Polyethylene	38 in	Polypropylene	Adjustable Cone	Westward	**39D767**
2 gal	Polyethylene	42 in	Polyethylene	Adjustable Cone	Chapin	**21AC34**
Deck Staining						
1 gal	Polyethylene	34 in	Polypropylene	Fan	Chapin	**2ZV90**



No. 39D766



No. 2Z706



No. 3XL41

Industrial Sprayers

Handheld Sprayers—Rugged construction with brass accessories for everyday industrial use. Wide openings permit easy cleaning and filling.

Water Supply Tank—For industrial cutting tool applications. Use with standard garden hose.

Cart Sprayer—Includes 2-wheeled cart with handle.

Tank Cap.	Tank Material	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.
Handheld Sprayers						
3 gal.	Polyethylene	46"	Brass	Adjustable Cone	Westward	**39D766**
3 gal.	Polyethylene	36"	Brass	0.5 gpm, Fan	Chapin	**21AC32**
3 gal.	Steel	42"	Brass	Adjustable Cone	Chapin	**2Z707**
Handheld Sprayer with Funnel Top						
3½ gal.	Steel	42"	Brass	Adjustable Cone	Chapin	**2Z706**
Water Supply Tank						
3 gal.	Polyethylene	—	—	—	Chapin	**2TRG1**
Cart Sprayer						
6 gal.	Stainless Steel	10 ft.	Brass	Adjustable Cone	Chapin	**3XL41**



No. 416P35



No. 4NED2



No. 36FL46



No. 6HKZ2



No. 4NED9



No. 6HNG6

Spot, Trailer, ATV, and Skid Sprayers

Sprayers are large enough to apply insecticides and herbicides to lawns, acreages, fence rows, and ditches. Fimco sprayers are made of corrosion-resistant poly and include a full-length drain sump and handgun nozzle. Chapin® sprayers feature chemical-resistant tanks. Nos. 416P35 to 416P37 include a triple filtration system that helps extend life of sprayer. No. 4NED5 is equipped with a pump kit that fits most roller pumps. Use with No. 3YB55, 6-roller pump, sold on page 2693.

Tank Cap.	Flow Rate	PSI	Hose L	Vertical Spray	Horizontal Spray	Pump	Brand	Item No.
Spot Sprayers								
15 gal.	1.0 gpm	35	15 ft.	12 ft.	25 ft.	12V Diaphragm	Fimco	**4NEC5**
15 gal.	1.0 gpm	40	15 ft.	18 ft.	18 ft.		Chapin	**416P35**
15 gal.	2.1 gpm	60	15 ft.	25 ft.	35 ft.		Fimco	**4NEC9**
25 gal.	1.0 gpm	35	15 ft.	12 ft.	25 ft.		Fimco	**4NEC6**
25 gal.	2.1 gpm	60	15 ft.	25 ft.	35 ft.		Fimco	**4NEC8**
25 gal.	2.2 gpm	70	15 ft.	26 ft.	30 ft.		Chapin	**416P36**
40 gal.	3.8 gpm	45	25 ft.	26 ft.	35 ft.		Fimco	**4NED6**
Trailer Sprayers								
15 gal.	2.1 gpm	60	15 ft.	15 ft.	30 ft.	12V Diaphragm	Fimco	**4NED2**
25 gal.	2.1 gpm	60	15 ft.	15 ft.	30 ft.		Fimco	**4NED3**
25 gal.	2.2 gpm	70	15 ft.	30 ft.	26 ft.		Chapin	**416P37**
60 gal.	3.8 gpm	45	25 ft.	26 ft.	35 ft.		Fimco	**4NED8**
ATV Sprayers								
15 gal.	2.1 gpm	60	15 ft.	15 ft.	30 ft.	12V Diaphragm Demand	Fimco	**36FL45**
25 gal.	2.1 gpm	60	15 ft.	15 ft.	30 ft.		Fimco	**36FL46**
25 gal.	3.8 gpm	45	15 ft.	26 ft.	35 ft.		Fimco	**36FL48**
25 gal.	3.8 gpm	45	15 ft.	26 ft.	35 ft.	12V Diaphragm	Fimco	**453F65**
Skid Sprayers								
40 gal.	3.8 gpm	45	15 ft.	26 ft.	43 ft.		Fimco	**8C401**
60 gal.	2.1 gpm	60	25 ft.	25 ft.	35 ft.	12V Diaphragm	Fimco	**4NEE2**
100 gal.	2.0 gpm	60	50 ft.	20 ft.	20 ft.		TurfEx	**6HKZ2**
300 gal.	10.6 gpm	580	300 ft.	37 ft.	49 ft.	Diaphragm	Fimco	**4NED9**
Utility Sprayer								
5 gal.	1.0 gpm	35	15 ft.	12 ft.	25 ft.		Fimco	**4NED7**
12 gal.	1.0 gpm	60	8 ft.	10 ft.	15 ft.	12V Diaphragm	TurfEx	**16V882**
12 gal.	1.0 gpm	60	8 ft.	10 ft.	15 ft.		TurfEx	**16V883**
Three-Point Hitch Sprayers								
40 gal.	2.1 gpm	60	25 ft.	25 ft.	35 ft.	12V Diaphragm	Fimco	**6HNG6**
55 gal.	—	—	25 ft.	33 ft.	48 ft.	Not Included	Fimco	**4NED5**

Description	Brand	Item No.
12V Diaphragm Pumps		
1.2 gpm, For Use with Nos. 4NEC5, 4NEC6, and 4NED7	Fimco	**499K33**
2.4 gpm, For Use with Nos. 4NEC9, 4NEC8, 4NED2, 4NED3, 4NED4, 4NED7 and 4NEE2	Fimco	**499K32**
4.5 gpm, For Use with Nos. 4NED6, 4NED8, and 4NED1	Fimco	**499K31**
Inline Lever Pistol Grip Handguns		
29"L, 100 psi, ⅜" Connection, Aluminum Extension	Fimco	**4NEE7**
19"L, 300 psi, ⅜" Connection, Aluminum Extension	Fimco	**4NEE6**



BERNZOMATIC · FLAME ENGINEERING INC. · SIEVERT · LINCOLN ELECTRIC · GA GRAINGER APPROVED

Propane Weed Burner Torches

Easy-to-use method for controlling weeds. Ideal for use around rocks, pavers, driveways, and along fences. Can be used to melt snow and ice on driveways, sidewalks, and steps.

Hand Torches and Torch Kits—Ideal for spot weeding and pin-point flaming where a full continuous flame is not needed. Require a standard vapor withdrawal cylinder.

Shop Torch Kit—Ideal for small jobs where a large torch is too powerful or difficult to use.

Backpack Torch Kit—Excellent for spot weeding or where a continuous full flame is not required. Suitable for forest service use, farm, garden, and municipalities.

Description	Propane BtuH	Brand	Item No.
Hand Torches with 1-lb. Cylinder Connector			
36" L Self-Igniting	20,000	Bernzomatic	**3DPW7**
28" L with Spark Lighter	25,000	Flame Engineering	**8WU23**
Hand Torch with 20-lb. Cylinder Connector, 3"-dia. Bell, 10-ft. Gas Hose, and Spark Lighter			
33"L	500,000	Flame Engineering	**8N088**
Torch Kit with Handle Assembly and Regulator for Disposable Propane Cylinder			
13"L Handle with 4-ft. Gas Hose	20,000	Sievert	**23PF37**
Torch Kits with Squeeze Valve, Adjustable Pilot, and Spark Lighter			
20"L Universal Handle, Mini Dragon	25,000	Flame Engineering	**45RL14**
36"L Handle with 10-ft. Gas Hose	500,000	Lincoln Electric	**12C086**
40"L Handle with 10-ft. Gas Hose	500,000	Flame Engineering	**21AC88**
46"L Handle with 25-ft. Gas Hose	1,000,000	Flame Engineering	**8YCW3**
90"L Handle with 25-ft. Gas Hose	2,000,000	Flame Engineering	**8CTY9**
Shop Torch Kit with 10"L Handle, Torch Stand, 10-ft. Gas Hose, Adjustable Needle Valve, and Low Pressure Regulator			
1½" Bell End	50,000	Flame Engineering	**21AC89**
Backpack Torch Kit with 5-ft. Gas Hose, Squeeze Valve, Adjustable Pilot, and Spark Lighter			
40"L	400,000	Flame Engineering	**9RCF3**
Propane Cylinder Hand Truck			
For 20 to 40-lb. Cylinders	—	GA	**8D060**

OSM inc. Natural Solutions for a Natural World®

Fish and Seaweed Liquid Fertilizer

All-natural formula prolongs nutrient availability and improves soil structure. Environmentally safe and complementary to any sustainability program. OMRI Listed®.



Size	Item No.
1 gal.	**6AHZ3**
5 gal.	**6AHZ4**







Spectracide · Enforcer · MONSANTO · OSM inc. Natural Solutions for a Natural World® · PROMAX · DOW · Dow AgroSciences

Herbicides and Horticultural Vinegar

All herbicides meet EPA Standards.

Grass and Weed Killer—Available in RTU and concentrated formulas. Concentrate comes in 32-oz. bottles that make up to 10 gal. of usable product. Spectracide® Weed and Grass Killer is a nonselective herbicide that will kill any plant that it comes into contact with.

Vegetation Killer—Works in soil and is soil active. Use on driveways, patios, and sidewalks to kill a variety of vegetation. Provides visible results in 24 hours and prevents regrowth for up to 1 year if applied as instructed.

Tree and Brush Killer—No. 5WXR8 kills cut stumps and stops resprouts. Features a blue dye to let you keep track of treated stumps. No. 8MJY0 is for broad-spectrum control of brush, broadleaf weeds, and multiple woody species.

Description	Size	Contains	Brand	Item No.
Grass and Weed Killer				
RTU	1.33 gal.	0.12% Diquat Dibromide	Spectracide	**36WG58**
Concentrate	32 oz.	2.30% Diquat Dibromide, 0.77% Dicamba, 1.15% Fluazifop-P-Butyl	Spectracide	**52LA86**
	1 gal.	41.0 % Glyphosate	Enforcer	**53YV99**
	5 gal.	41.0 % Glyphosate	Enforcer	**53YW01**
	55 gal.	41.0 % Glyphosate	Enforcer	**53YW02**
Lawn Weed Killer				
Roundup QuikPro™, Dry Concentrate	7.5 oz.	73.3 % Glyphosate 2.9% Diaquat	Monsanto	**8MJX9**
	6.8 lb.	73.3 % Glyphosate 2.9% Diaquat	Monsanto	**8DMY8**
Horticultural Vinegar Weed Killer, RTU	1 gal.	20% Acetic Acid	OSM	**38N634**
	55 gal.	20% Acetic Acid	OSM	**38N635**
WeedStop® for Lawns Plus Crabgrass Control, RTU	1 gal.	0.25% Dimethylamine Salt	Spectracide	**36WG56**
Vegetation Killer				
Concentrate	2.5 gal.	48.7 % Glyphosate	Promax	**49ZY81**
Tree and Brush Killer				
Tordon® Liquid, RTU	1 qt.	Picloram	Dow AgroSciences	**5WXR8**
Garlon® 4 Ultra, Liquid Concentrate	2.5 gal.	Triclopyr	Dow AgroSciences	**8MJY0**

WESTWARD · DeWitt DOWN TO EARTH PROTECTION

Landscape Fabric, Plant Protection, and Weed Barrier



Anchor Pins—11-ga. steel pins can also be used on drip irrigation tubing.

Landscape Fabric and Weed Barrier—Tear-resistant Landscape Fabric helps control weed growth, and is striped every 12" to aid with plant alignment. Weed Barrier blocks weeds and conserves moisture, while allowing air, water, and nutrients to reach plants.

Plant Protection—Lets through air and moisture, while helping protect plants and flowers from freezing temperatures.

Size	Brand	Item No.	Pkg. Qty.
Anchor Pins			
6" x 1"	Westward	**31NG30**	12
6" x 1"	Westward	**31NG31**	75
6" x 1"	Westward	**31NG29**	500
Landscape Fabric			
3 x 250 ft.	Dewitt	**444N74**	1
Landscape Fabric, Nonwoven 3 oz.			
3 x 50 ft.	Westward	**31NG25**	1
4 x 300 ft.	Westward	**31NG32**	1
Landscape Fabric, Nonwoven 5 oz.			
6 x 250 ft.	Westward	**31NG23**	1
Landscape Fabric, Woven 5 oz.			
4 x 250 ft.	Westward	**31NG28**	1
Plant Protection Fabric			
3 x 250 ft.	Dewitt	**444N75**	1
6 x 250 ft.	Dewitt	**444N76**	1
10 x 12 ft.	Westward	**31NG33**	1
12 x 250 ft.	Westward	**31NG34**	1
Weed Barrier			
3 x 300 ft.	Westward	**31NG26**	1
6 x 300 ft.	Westward	**31NG27**	1
Weed Barrier, 3 oz.			
6 x 300 ft.	Westward	**31NG24**	1



GA GRAINGER APPROVED · DeWitt DOWN TO EARTH PROTECTION

Tree Grates and Mats

Increase survivability and improve growth in tree and shrub plantings.

All black plastic Tree Grates are lightweight and easy to install. Center opening can be expanded with standard saw blade.

Tree Mats conserve moisture and stop weed growth without chemicals and eliminate the need for mulch or rock cover. Black color.



Description	Size	Brand	Item No.
Tree Grates			
Round	3 ft. x 3 ft.	GA	**8DL86**
	4 ft. x 4 ft.	GA	**8NKV1**
	5 ft. x 5 ft.	GA	**8DJD4**
Square	4 ft. x 4 ft.	GA	**8W945**
	5 ft. x 5 ft.	GA	**9WJG7**
Tree Mats			
Uncut	3 x 3 ft.	Dewitt	**12W288**
	4 x 4 ft.	Dewitt	**12W291**
Slit-Cut	3 x 3 ft.	Dewitt	**12W289**
	4 x 4 ft.	Dewitt	**12W292**
X-Cut	3 x 3 ft.	Dewitt	**12W290**
	4 x 4 ft.	Dewitt	**12W293**

ECHO Makita

Gas-Powered Chain Saws





- Antivibration handles
- Bar/chain and oil
- 2-cycle

For chain saw chaps, see page 1721. See Grainger.com® for chain saws, bars, chains, sharpeners, and oil.

ECHO®—Feature digital ignition system, purge bulb, integrated choke, and side access chain tensioner. Models with Performance Cutting System™ have upgraded bar and chain for better cutting.

Makita®—Features large metal spike bar and toolless chain tension adjustment.

Bar L	Engine Displacement	Fuel Tank Cap.	Chain Oiler	Brand	Mfr. Model	Item No.
Top Handle						
12"	26.9cc	8.1 oz.	Auto/Adjustable	Echo	CS-271T-12	**44X150**
14"	35.8cc	11.2 oz.	Auto/Adjustable	Echo	CS-355T-14	**44X154**
Rear Handle						
14"	30.5cc	8.5 oz.	Automatic	Echo	CS-310-14	**44X152**
16"	36.3cc	13.9 oz.	Auto/Adjustable	Echo	CS-370-16	**44X156**
	42cc	16.2 oz.	Auto/Adjustable	Makita	EA4300FRDB	**53TE35**
18"	40.2cc	13.9 oz.	Auto/Adjustable	Echo	CS-400-18	**44X158**
	45.0cc	15.2 oz.	Auto/Adjustable	Echo	CS-4510-18	**425W06**
	50.2cc	16.4 oz.	Auto/Adjustable	Echo	CS-490-18	**52DD57**
	59.8cc	21.8 oz.	Auto/Adjustable	Echo	CS-590-18	**52DD59**
20"	50.2cc	16.9 oz.	Auto/Adjustable	Echo	CS-501P-20	**52WN51**
	59.8cc	21.8 oz.	Auto/Adjustable	Echo	CS-590-20	**20KC05**
24"	59.8cc	21.8 oz.	Auto/Adjustable	Echo	CS-620P-24	**52WN52**
ECHO® Chain Saw Case						
Fits ECHO® Saws With Up to 24"L Bar				Echo	99988801211	**44X163**

DEWALT EGO POWER SYSTEM Makita

Electric- and Battery-Powered Chain Saws





For chain saw chaps, see page 1721. See Grainger.com® for chain saws, bars, chains, sharpeners, and oil.

DEWALT®

Brushless chainsaws deliver the performance of gas with the convenience of cordless. Auto-oiling for delivering smooth cuts. Tool-Free tensioning system allows for quick bar and chain adjustments with no additional tools required.

EGO BATTERY-POWERED

A tensioning knob lets you adjust chain tension with no need for tools.

MAKITA® BATTERY-POWERED

These tools have an electric brake. No. 53RF95 requires (2) LXT 18V batteries (not included).

Bar L	Battery Voltage	Chain Oiler	Includes	Brand	Mfr. Model	Item No.
Battery-Powered						
12"	20V	Automatic	Hard Bar Cover	DeWalt	DCCS620B	**423K75**
	20V	Automatic	Battery, Charger, Hard Bar Cover	DeWalt	DCCS620P1	**423K76**
16"	60V	Automatic	Bar Cover	DeWalt	DCCS670B	**458P07**
Bare Tool, Top-Handle						
16"	56V	Auto/ Adjustable	—	Ego	CS1600	**49AY39**
Rear-Handle						
14"	18V	Automatic	(2) Batteries, Charger, Guide Bar Cover	Makita	XCU03PT	**53RF94**
16"	60V	Automatic	3.0 Ah Lithium Ion Battery, Charger, Hard Bar Cover	DeWalt	DCCS670X1	**53JH21**
Top-Handle						
10"	18V	Automatic	—	Makita	XCU06Z	**54XJ32**
14"	18V	Automatic	Guide Bar Cover	Makita	XCU03Z	**53RF95**
	56V	Auto/ Adjustable	56V, 2.0Ah Lithium-Ion Battery, Charger, Chain Sheath	Ego	CS1401	**38ZE08**
16"	56V	Auto/ Adjustable	56V, 5.0Ah Lithium-Ion Battery, Charger, Chain Sheath	Ego	CS1604	**49AY40**
Corded Electric-Powered						
Rear-Handle						
14"	—	Automatic	Chain, Bar, Bar Cover	Makita	UC3551A	**6MYC9**
16"	—	Automatic	Chain, Bar, Bar Cover	Makita	UC4051A	**6MYD0**

Description	Mfr. Model	Item No.
Dewalt Accessories		
40V MAX™ Series Li-Ion Battery, 40V, 6.0Ah	DCB406	**40CA30**
40V MAX™ Series Battery Charger	DCB116	**52JL96**
XR™ Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
14" Chain Saw Replacement Bar	AG1400	**38ZE19**
Rapid Charger	CH5500	**38ZE14**
Charger	CH2100	**38ZE12**

Description	Mfr. Model	Item No.
Makita® Accessories		
LXT® Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT® Battery, Pkg. of 2	BL1830B-2	**6CFC2**
18V LXT® Battery Charger	DC18RC	**4NNN4**
36V LXT® Battery	BL3626	**14F063**

ECHO Makita

Gas-Powered Hedge Trimmers



Double-sided blade offers efficient cutting. Ergonomic loop handle for improved balance.

2-Stroke Nos. 492R45 and 44X177—Feature tip guard, front hand safety guard, blade guard, and i-30™ starting system for quicker starts. No. 44X177 has a vibration-reduction system for more comfortable use.

4-Stroke No. 20VG40—A commercial-duty gear case with tip guard, heavy-duty dual-stage air filter, steel drive shaft, and multiposition lubrication system.

Bar L	Engine Displacement	Blade Type	Max. Cutting Dia.	Fuel Tank Cap.	Brand	Mfr. Model	Item No.
2 Stroke							
21"	25.4cc	Double-Sided	1"	20 oz.	Echo	HCA-2620	**425W10**
20"	21.2cc	Double-Sided	1"	13.2 oz.	Echo	HC-2020AA	**492R45**
	21.2cc	Double-Sided Pole	¾"	14.9 oz.	Echo	SHC-225	**44X177**
30"	21.2cc	Single-Sided	1"	12.5 oz.	Echo	HCS-2810	**52WN53**
4 Stroke Gas							
24"	25.4cc	Double-Sided	9⁄32"	20.3 oz.	Makita	EN5950SH	**20VG40**

Makita DEWALT Milwaukee EGO POWER SYSTEM

Electric- and Battery-Powered Hedge Trimmers



ELECTRIC-POWERED

2-handed operation switch for safety.

BATTERY-POWERED

20V DeWalt® No. 48ZE98—Features laser-cut blades and friction clutch.

18V LXT® No. 20KR55—Battery and charger sold separately.

18V X2 LXT® No. 20KR57—6-speed dial lets you match speed to application, and a 5-position rotating rear handle adjusts for comfortable vertical and angle trimming. LED battery gauge.

Milwaukee®—No. 49JU95 Hedge trimmer features slider crank mechanism and all metal gear case. Extended distance from the bail handle to the trigger for greater control. Tip guard prevents damage to the blade. No. 49JU96 is bare tool without charger and battery pack.

Bar L	Battery Voltage	Blade Type	Max. Cutting Dia.	Includes	Brand	Mfr. Model	Item No.
Battery-Powered							
22"	18V	Double-Sided	1⁄32"	18V, Lithium-Ion Battery, Charger, Blade Cover	Makita	XHU02M1	**53YK03**
	20V	Double-Sided	¾"	Battery, Charger	DeWalt	DCHT820P1	**48ZE98**
	20V	Double-Sided	¾"	No. 48ZE98 and (2) Batteries	DeWalt	DCHT820P1/ DCB205	**65DG55**
24"	18V	Double-Sided	¾"	High Demand Battery, Rapid Charger	Milwaukee	2726-21HD	**49JU95**
25½"	18V	Double-Sided	9⁄16"	Blade Cover	Makita	XHU04Z	**53RF96**
	18V	Double-Sided	9⁄16"	(2) Batteries, Charger, Blade Cover	Makita	XHU04PT	**53RF92**
Bare Tool							
22"	20V	Double-Sided	¾"	—	DeWalt	DCHT820B	**48ZE97**
	—	Double-Sided	9⁄16"	—	Makita	XHU02Z	**20KR55**
24"	18V	Double-Sided	¾"	—	Milwaukee	2726-20	**49JU96**
Bare Tool, (2) Battery and Charger, Sold Separately							
25½"	—	Double-Sided	9⁄16"	—	Makita	XHU04Z	**20KR57**
Corded Electric-Powered, 120VAC, 4.8Ah							
Bare Tool							
22"	—	Double-Sided	½"	—	Makita	UH5570	**6MYD1**
24"	56V	Single-Sided	¾"	—	Ego	HT2400	**453F07**
25"	—	Double-Sided	½"	—	Makita	UH6570	**6MYD2**

Description	Mfr. Model	Item No.
Makita® Accessories		
LXT® Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT® Battery, Pkg. of 2	BL1830B-2	**6CFC2**
18V LXT® Battery Charger	DC18RC	**4NNN4**
36V LXT® Battery	BL3626	**14F063**

Description	Mfr. Model	Item No.
DeWalt® Accessories		
40V, 4.0Ah Battery	DCB404	**40CA29**
40V Charger	DCB114	**40CA31**
XR™ Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
40V MAX™ Series Battery Charger	DCB116	**52JL96**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
Charger	CH2100	**38ZE12**
Rapid Charger	CH5500	**38ZE14**

ECHO

Gas-Powered Pruners

Both models feature side-access chain tensioner and easy-to-grasp ergonomic handles with rubber over-mold for added comfort and handling. No. 45A331 features 7.6 fl. oz. oil reservoir with easy-fill opening, rubber left and right handle grips, and shoulder strap. No. 425W08 has a large 20.6 fl. oz. fuel tank for extended run time.



No. 45A331

Description	Bar L	Overall L	Engine Displacement	Mfr. Model	Item No.
Gas-Powered Pruners					
Fixed Shaft	10"	93"	21.2cc	PPF-225	**45A331**
Telescoping Shaft	12"	148"	25.4cc	PPT-2620	**425W08**
Pruner Extensions					
3-ft. Length for Use with No. 45A331	—	—	—	99946400011	**45A337**

WESTWARD
FISKARS
CORONA SEASON AFTER SEASON
JAMESON



No. 49Z429

Tree Pruners

Ideal for clearing away tree branches in the path of CATV aerial lines and in telecommunication applications.



No. 5KRE8

Description	Cutting Cap.	Brand	Mfr. Model	Item No.
Tree Pruners				
Single Telescoping Pole				
11-ft. Pole, 15" Saw, 2¼" Lopper Blade with Adjustable Grip Rope Handle, and Slide Lock	2"	Westward	—	**5TFN6**
12-ft. Pole, 12" Saw, 1" Lopper, Double Lock Extension	1"	Fiskars	393951-1001	**49Z427**
13-ft. Pole, 15" Saw, 1⅛ Lopper and Slide Lock	1 ⅛"	Westward	—	**5TFN2**
14-ft. Pole, 13" Razor Saw, 1¼" Lopper , Twist and Lock Extension	1¼"	Corona	TP6870	**8NEK2**
14-ft. Pole, 15" Saw, 1¼" Lopper, Double Lock Extension	1¼"	Fiskars	393981-1003	**49Z428**
16-ft. Pole, 15" Saw, 1½" Lopper, Double Lock Extension	1½"	Fiskars	394631-1001	**49Z429**
Multiple Poles				
(1) 6-ft. Extension Pole, and (1) 6-ft. Base Pole, 13" Tri-Cut Saw, 1⅛" Lopper, Fixed Pulley Side-Cut Pruner	1⅛"	Jameson	FG-6PKG-1	**5KRE7**
(2) 6-ft. Extension Poles, (1) 6-ft. Base Pole, 1¼" Lopper, Fixed Pulley Side-Cut Pruner, Adapter	1¼"	Jameson	FG-14K	**5KRE8**
(2) 6-ft. Extension Poles, (1) 6-ft. Base Pole, 13" Saw, 1¼" Lopper, Double Pulley Side-Cut Pruner, Adapter	1¼"	Jameson	BL-6PKG-6-PR	**20KP53**
Pruning Components				
Pole Saw Heads				
Pole Saw Head (Center Blade Mount) with Mounting Pin and Adapter	—	Jameson	PS-3FP	**5KRF0**
Pole Saw Head (No. 5KRF0) with 13" Tri-Cut Saw Blade (No. 9MYH0)	—	Jameson	PS-3FPS1	**9FEX6**
Pole Saw Head, 16" Saw Blade, 1" Lopper	1"	Jameson	PH-11-PKG	**9JGZ3**
Tri-Cut Saw Blades				
13" Tri-Cut Saw Blade	—	Jameson	SB-13TE	**9MYH0**
13" Tri-Cut Blade with Gullets	—	Jameson	SB-13TE-GUL	**16X107**
13" Tri-Cut Blade with Hook	—	Jameson	SB-13TE-H	**16X106**
16" Tri-Cut Saw Blade	—	Jameson	SB-16TE	**5KRF1**
16" Mammoth Tri-Cut Saw Blade	—	Jameson	SB-16TE-W	**16X105**
Extension Pole				
6-ft. Fiberglass Hollow Core Extension Pole	—	Jameson	FG-6	**5KRE9**
Pruning Head and Pole				
Side-Cut Pruner (1¼" Lopper) with Fixed Pulley, Adapter, and Rope	1¼"	Jameson	PH-14-PKG	**8F385**
Fiberglass Telescoping Pole with Female Ferrule, Adjusts 7 to 14 ft.	—	Jameson	TP-14F	**9R636**

Clauss
WESTWARD
CORONA SEASON AFTER SEASON
FISKARS
STANLEY

Pruners

Titanium Bonded® Nonstick and Titanium Nitride coatings improve blade strength and help blades stay sharper longer; Titanium Bonded® and Nonstick coatings also improve corrosion resistance. Stainless steel blades are inherently corrosion resistant.

Bypass and Anvil—Bypass models have curved blades to allow clean cutting, and can cut near the trunk without crushing plant tissue. No. 468F45 FATMAX® has a grip hook for maximum cutting power on large limbs. Features ergonomic nonslip rubber grips for comfort and curved handles to increase leverage. TiCN-coated blades will cut through 1" of live growth with minimal effort. Anvil pruners are excellent for cutting woody stems or deadwood.

Flower and Trimming—Flower pruners have pointed blades that can easily maneuver the tight spaces between flower stems. Trimming models are specially designed for harvesting fruit and pruning flowers.

2-Pc. Cutter Sets—Include bypass pruner and flower pruner.



No. 429U37



No. 5TFN0



No. 16X037



No. 429U24



No. 49U740



No. 429U33

Cutting Cap.	Blade Material	Blade Coating	Handle Material	Grip Type	Overall L	Brand	Mfr. Model	Item No.
Bypass Pruners								
½"	Stainless Steel	Nonstick, Antimicrobial	ABS Thermoplastic/TPR	Ergonomic	8"	Clauss	19574	**429U23**
	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	8"	Clauss	19567	**429U37**
	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	10¾"	Clauss	19564	**429U34**
⅝"	Steel	Titanium Nitride	Polypropylene	Ergonomic	8"	Westward	—	**5TFP2**
	Steel	Nonstick	Steel	Cushioned	8½"	Westward	—	**5TFN0**
¾"	Steel	—	Vinyl Coated Steel	Nonslip	8¼"	Corona	BP3160	**8D571**
1"	Steel	Low-Friction	Aluminum	Ergonomic	8"	Fiskars	398393-1001	**16X037**
	Steel	—	Vinyl Coated Aluminum	Ergonomic	8½"	Corona	BP6250	**8YZ58**
	Steel	—	Vinyl Coated Steel	Ergonomic	8¾"	Corona	BP 3180D	**8Y095**
	Steel	—	Steel	Ergonomic	9⅜"	STANLEY	BDS6036	**468F45**
Anvil Pruners								
½"	Stainless Steel	Nonstick, Antimicrobial	ABS Thermoplastic/TPR	Ergonomic	8"	Clauss	19575	**429U24**
	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	8"	Clauss	19568	**429U38**
⅝"	Steel	Nonstick	Steel	Cushioned	7¾"	Westward	—	**5TFN3**
	Steel	—	Steel	Nonslip	8"	Fiskars	91105935j	**39FV59**
	Steel	Nonstick	Aluminum	Ergonomic	8"	Westward	—	**2ZB48**
Flower Pruners								
¼"	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	8²½₃₂"	Clauss	19565	**429U35**
½"	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	8½"	Clauss	19566	**429U36**
⅜"	Stainless Steel	—	Vinyl Coated Steel	Nonslip	7⅜"	Corona	AG 4930SS	**49U740**
Garden Snip								
½"	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	9²³⁄₆₄"	Clauss	19563	**429U33**
Trimming Pruners								
2"	Steel	Nonstick	Polypropylene	Ergonomic	8⅜"	Westward	—	**5TFP0**
2-Pc. Cutter Sets								
¼"	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	7½", 6"	Clauss	19569	**429U39**
½"	Stainless Steel	—	ABS Thermoplastic/TPR	Ergonomic	7½", 7½"	Clauss	19570	**429U40**



STANLEY · CORONA SEASON AFTER SEASON · WESTWARD · FISKARS · Clauss

Loppers

Bypass design is ideal for cutting green, living growth; anvil blade design cuts dry, dead growth.

Bypass—Longer handles with force-multiplying mechanism. Titanium carbo-nitride (TiCN) coating on Nos. 468F46, 425R87, and 425R86 allow blades to retain sharpness. SyncDrive® technology adds more cutting force than nongeared loppers.

Compound Lever Bypass—Lever mechanism helps reduce cutting effort.

Antimicrobial Bypass—Titanium blades resist corrosion and adhesives. Stainless steel is 3 times harder than untreated stainless. Blades stay sharper longer. Telescopic Lopper No. 429U21 extends from 19" to 24".

Anvil Loppers—Have nonslip grips and telescopic aluminum handles. Gear mechanism on No. 2RDN2 helps reduce cutting effort.

PowerGear® Lopper—Geared lopper gives you up to 3 times more leverage than traditional loppers. Low-friction, rust-resistant coating prevents sap and debris buildup on blade. Ergonomic handles.

Cutting Cap.	Blade Material	Handle Material	Overall L	Brand	Item No.
Bypass Loppers					
1½"	Forged Steel	Steel	32"	STANLEY	**468F46**
1½"	Forged Steel	Aluminum	23"	STANLEY	**425R87**
1½"	Forged Steel	Hardwood	26"	Corona	**21EJ14**
1½"	Nonstick Steel	Wood	27"	Westward	**2ZB47**
1 25/32"	High-Carbon Steel	Aluminum	27" to 40 5/16"	Westward	**2RDL9**
2"	Forged Steel	Aluminum	31"	STANLEY	**425R86**
2¼"	Forged Steel	Aluminum	26"	Corona	**38A101**
2¼"	Forged Steel	Aluminum	32"	Corona	**38A102**
Compound Lever Bypass Loppers					
1¾"	Nonstick Steel	Steel	25" to 37"	Fiskars	**10F483**
Antimicrobial Bypass Loppers					
2"	Titanium	ABS/TPR	30"	Clauss	**429U20**
Antimicrobial Telescopic Bypass Loppers					
1"	Titanium	ABS/TPR	19"	Clauss	**429U21**
Anvil Loppers					
1 25/32"	High-Carbon Steel	Aluminum	27" to 40 5/16"	Westward	**2RDL8**
2"	High-Carbon Steel	Aluminum	28" to 41 5/16"	Westward	**2RDN2**
PowerGear® Bypass Lopper					
2"	Hardened Steel	Aluminum	32"	Fiskars	**35ZD43**



WESTWARD · FISKARS · Clauss · CORONA SEASON AFTER SEASON

Hedge and Garden Shears

HEDGE SHEARS

3-Pt. Compound Cutting Action—Increases leverage. Bumper pads protect hands.

Dial-a-Cut—Wavy-blade shears cut easily. Adjustment knob for harder or softer cuts.

Power-Lever®—Self-sharpening, serrated blade. Handle adjusts from 25" to 33"L.

Power-Gear®—Have 2 gears to aid cutting force, reduce cutting effort, and provide leverage through the cut.

Antimicrobial Handles—Titanium Bonded® shears are harder than untreated stainless, so blades stay sharper longer.

Heat-Treated Blades—Straight edge with limb notch shears feature comfortable nonslip grip. Blades can be resharpened.

GARDEN SHEARS

Titanium Bonded® resist corrosion and adhesives. Nonstick Titanium No. 429U32 resists tape, glue, hook-and-loop, and sap. Micro ceramic coating will not wear off—up to 100,000 cuts.

SHARPENER

Sharpens straight edge tools, such as hedge shears, anvil loppers, and pruners.

Description	Blade Size	Blade Material	Handle Material	Overall L	Brand	Item No.
Hedge Shears						
3-pt. Compound Cutting Action	10"	Polished Steel	Aluminum w/ Rubber Grip	24"	Westward	**5TFN4**
Dial-a-Cut	9"	Steel	Wood w/ Cushioned Grip	23"	Westward	**2ZB49**
Power-Lever®	10"	Hardened Steel	Steel w/ Cushioned Grip	33"	Fiskars	**5UJF0**
Power-Gear®	10"		Aluminum	23½"	Fiskars	**35ZD42**
Antimicrobial Handles	8"	Titanium Bonded®	ABS/TPR	26"	Clauss	**429U22**
Heat-Treated Blades	8¼"	Forged Steel	Hardwood	21"	Corona	**21EJ13**
Garden Shears						
Yellow Antimicrobial Handles	3"	Titanium Bonded®	ABS/TPR	8½"	Clauss	**429U32**
Green Antimicrobial Handles, Includes Sheath	3"			8"	Clauss	**429U41**
Sharpener						
Manual, Pocket Size	¾"	Carbine	Plastic	5"	Corona	**21EJ15**



WESTWARD · STANLEY · FISKARS · JAMESON · CORONA SEASON AFTER SEASON · Clauss

Hand Saws

Bow Saws—Westward® saws have a lightweight tubular steel frame with safety tension lever. Stanley® FATMAX® Bow Saw has a high-tension control knob, durable knuckle guard, and comfort molded grip. 24" removable blade.

Pruning Hand Saws—Blades fold or slide out of the way. Triple-edge teeth cut quickly. Titanium Bonded® blades on Nos. 429U25 and 429U26 resist corrosion and adhesives and stainless steel is 3 times harder than untreated stainless.

Tri-Cut Saws—Hard chrome-plated tri-edge blades provide a cleaner cut than a single blade. Impulse-hardened teeth. An index finger stop provides additional safety.

Description	Blade Size	Blade Material	Handle Material	Overall L	Brand	Item No.
Bow Saws						
Bow Saw	21"	Steel	Steel	23¾"	Westward	**2RDL4**
Replacement Blade For No. 2RDL4	21"	Steel	—	21"	Westward	**2RDL5**
Bow Saw	30"	Steel	Steel	32¾"	Westward	**2RDL6**
Replacement Blade For No. 2RDL6	30"	Steel	—	30"	Westward	**2RDL7**
FATMAX® Bow Saw	24"	High Carbon Steel	Polypropylene	24"	STANLEY	**468F47**
Pruning Hand Saws						
Retractable w/ Carabiner Clip	10"	Stainless Steel	Fiberglass	20"	Fiskars	**5UJF2**
Folding	8"	Steel	Metal w/Rubber Grip	17½"	Jameson	**5KRF7**
Folding	9"	Steel	Plastic	17½"	Westward	**2RDN1**
Folding	7"	Steel	Resin	21½"	Fiskars	**35ZD44**
Curved	13"	Tempered Steel	Co-Molded Plastic	13"	Corona	**9XYV3**
Curved	14"	Titanium Bonded®	—	21 47/64"	Clauss	**429U25**
Folding	7"	Titanium Bonded®	—	15½"	Clauss	**429U26**
Tri-Cut Saws						
Tri-Cut Saw	13"	Steel	Rubber w/Ergonomic Grip	18½"	Jameson	**5KRF2**
Leather Sheath For No. 5KRF2	13"	—	—	20½"	Jameson	**5KRF4**
Tri-Cut Saw	16"	Steel	Rubber w/Ergonomic Grip	21½"	Jameson	**5KRF3**
Leather Sheath For No. 5KRF3	16"	—	—	22½"	Jameson	**5KRF5**


No. 34FW26


No. 8M963


No. 45TP37


No. 20C889

NUPLA® TIMBER TUFF WESTWARD®

Forestry Tools

Pike Poles—Designed for timber handling in and around water.

Skidding Tongs—Ideal for skidding and dragging operations. Opens to 25". 1.25"-dia. steel tongs stay sharp for a long time. Powder-coated finish.

Mini Log Grapple—Easy-to-assemble grapple with 12 teeth grabs hold of logs for skidding and lifting. Powder-coated finish provides durability. 3000 lb. capacity.

Overall L	Handle Material	Handle Design	Brand	Mfr. Model	Item No.
Pike Poles with Straight Hook					
3 ft.	Fiberglass	D	Nupla	36103	**485C45**
4 ft.		D		36104	**485C46**
6 ft.		Butt		36499	**485C60**
8 ft.		Butt		36500	**485C61**
10 ft.		Butt		36501	**485C62**
12 ft.		Butt		36502	**485C63**
14 ft.		Butt		36503	**485C64**
16 ft.		Butt		36504	**34FW26**
Pike Pole Replacement Handle					
6 ft.	Fiberglass	Butt	Nupla	36306	**485C58**
Skidding Tongs					
Log Size 25"					
—	Steel	—	Timber Tuff	TMW-03	**8M963**
Mini Log Grapple					
Log Size 2" to 22"					
2.2 ft.	Steel	—	Timber Tuff	TMW-54	**45TP37**
Axes					
Pulaski Axe					
36"	Hickory	—	Westward	20C889	**20C889**
Michigan Axe					
36"	Hickory	—	Westward	20C890	**20C890**

FISKARS® NUPLA® COUNCIL TOOL

Brush Clearing Tools

Brush Axe has a thick, drop-forged blade and nonstick coating. Insert-molded design prevents blade from loosening. Machete Axe body slices grass and vines while the hook is used for power chopping grass and palms. The head can be used for quick, controlled chopping. The end of the axe is used for push cutting and chiseling. Double-Edge Bush Hook is for clearing brush, weeds, tough vines, and undergrowth. Carbon steel blade has both edges sharpened. Clearing Hook allows controlled cutting for medium brush, woody stems, small branches, and hard fibrous plants. The hook/tip provides heavy-duty pulling motion for removing suckers, clearing vines. Coarse saw edge for precision cutting. Use Ditch Bank Blade for clearing undergrowth. Carbon steel blade has both edges sharpened. Clearing Hatchet works on light/medium branches. Hook is for light-duty pull cutting.


No. 16X040


No. 4HGC4


No. 9U091

Description	Cutting Edge L	Overall L	Brand	Item No.
Brush Axe	5"	9"	Fiskars	**16X040**
Machete Axe	18"	29"	Fiskars	**45HE12**
Double-Edge Bush Hook	12"	46"	Nupla	**4HGC4**
Clearing Hook	—	18"	Fiskars	**45HE09**
Ditch Bank Blade	16"	40"	Council Tool	**9U091**
Clearing Hatchet	9"	18"	Fiskars	**45HE10**

FISKARS® WESTWARD® GERBER

Machetes and Hawkbill Knife

Fiskars® Machete No. 45HE08 is for grass, soft fibrous plants, light brush, perennials, and small roots. The hook/tip is for dividing plants, clump cutting (pulling motion), and digging small roots and weeds. Serration for precision cutting of grass. No. 45HE11 is for large dense areas of lighter weight material. Blade tip chops grass, palms, and branches. Westward® models have a steel blade with a powder-coated paint finish, resistant to rust and abrasion. Hawkbill Knife has carbon steel blade and ergonomic plastic handle.


No. 45HE08


No. 45HE11


No. 31MJ56


No. 31MJ55

Cutting Edge L	Overall L	Brand	Item No.
Machetes			
	13"	Fiskars	**45HE08**
10½"	17"	Westward	**31MJ57**
11"	19 49/64"	Gerber	**446G09**
13 7/64"	17 5/16"	Gerber	**446G10**
15"	26"	Fiskars	**45HE11**
16½"	25"	Westward	**31MJ56**
19"	27¼"	Westward	**31MJ58**
Hawkbill Knife			
	9"	Westward	**31MJ55**

Brush Removal Tools

BRUSH GRUBBER

Brush Pullers—Easily clear brush with gripping teeth and strong, wide opening jaws that will not slip when engaged.

Shrub and Clump Pullers—Feature triple chain system with no-slip gripping links that act as a choker to remove large shrubs, clumps of brush, and small trees.

Root Cutter—Hardened serrated-edge blade and slide hammer cut easily through soil, removing roots without ripping up landscape. Slices roots up to 12" deep.

For Use On	For Use With	Mfr. Model	Item No.
Brush Pullers			
½" to 3" Brush or Stumps	ATVs/UTVs	BG-01	**9GMU4**
½" to 4" Brush or Stumps	Subcompact Tractors up to 30 HP	BG-08	**8YLD1**
1½" to 5" Brush or Stumps	Tractors up to 40 HP	BG-11	**9EMZ0**
2" to 6" Brush or Stumps	Large Tractors & Trucks	BG-20	**9YF70**
Shrub and Clump Pullers			
Shrubs/Clumps to 1¼ ft. Dia.	ATVs/UTVs	BG-16	**8Z253**
Shrubs/Clumps to 1½ ft. Dia.	ATVs/UTVs	BG-19	**9YF69**
Shrubs/Clumps to 1½ ft. Dia.	ATVs/UTVs	BG-24	**52RW67**
Root Cutter			
Unwanted Roots	By Hand	BG-18	**8YG78**


No. 9GMU4


No. 9YF69

No. 8YG78

AMES EST. 1774 | Clauss

Garden Hand Tools

Ames® tools feature heavy-duty stainless steel blades and an ergonomic handle design. They offer soft gel-grip inserts for comfortable all-day use. Clauss® tools have corrosion-resistant steel blades. Trowel and transplanter have straight handle. Bulb digger has D-handle.



Description	Blade L	Handle Material	Brand	Item No.
Trowel	5¾"	Polyethylene	Ames	**415M70**
Trowel	8¼"	ABS/TPR	Clauss	**429U27**
Transplanter	5⅞"	Polyethylene	Ames	**415M71**
Transplanter	7¼"	ABS/TPR	Clauss	**429U29**
Cultivator	3½"	Polyethylene	Ames	**415M72**
Bulb Digger	4¼"	ABS/TPR	Clauss	**429U31**



ECHO | SOUTHLAND

Gas-Powered Tillers and Cultivators

Tiller/Cultivator—Features reversible, hardened-steel tines that provide a smooth tilling action. Worm gear-type transmission provides high torque and high tine rpm. Throttle control and water-resistant stop switch are easy for operator to reach.

Cultivator—Lightweight mini cultivator features 2 rear, 7" plastic wheels and a 3-pc. folding handle.

Rear Tine Tiller—Features forward and reverse gear drive. Includes 13" solid rubber tires and foldable, pistol grip handles. Fuel system oil mix to gasoline is not required.

Description	Tilling D	Tine L	Working W	Brand	Item No.
Tiller/Cultivator					
Two-Cycle 21.2cc Engine	10"	4"	9"	Echo	**44X219**
Cultivator					
Two-Cycle 43cc Engine	5"	8"	6" to 10"	Southland	**6FWJ0**
Rear Tine Tiller					
4-Stroke 212cc OHV Engine	10"	11"	18"	Southland	**494P16**



WESTWARD | SEYMOUR MIDWEST | STRUCTRON | NUPLA

Manual Post Hole Diggers

For digging into hard, heavy gravel soils. No. 49DG94 has a safety green, premium fiberglass handle with comfort grip and 3M® retroreflective tape. The 11-ga. blades are hardened and sharpened.

Handle L	Distance Between Blade Tips	Brand	Mfr. Model	Item No.
Hardwood Handle				
48"	5⅞"	Westward	—	**1WG29**
Fiberglass Handle				
48"	6¼"	Westward	—	**2MVT4**
48"	6¼"	Seymour Midwest Structron	49753GRA	**49DG94**
48"	6½"	Nupla	79548	**3MD47**
72"	6½"	Nupla	69562	**5GVA1**
Nonconductive Fiberglass Handle				
48"	6½"	Nupla	76548	**4GFF3**

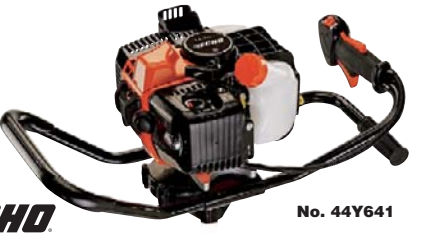
ECHO

Gas-Powered Bulb Planting Drill and Pot Auger

Cordless drill has an all-position diaphragm with purge pump carburetor, for heavy-duty performance at any-angle. Keyed chuck holds drill shanks up to ½". Electronic ignition provides quick, easy starts. Reversible.



Description	Mfr. Model	Item No.
2-Cycle 25.4cc Engine Drill	EDR-260	**52DD78**
7" x 16" Gal. Pot Auger	99944900070	**31ER79**



ECHO

Gas-Powered Earth/Ice Auger

Ideal for most earth, snow, and ice drilling operations and is suitable for a variety of auger diameters. 30.2:1 gear ratio allows for fast cutting speeds. Frame assembly and heavy-duty handle help reduce vibration for greater operator comfort and allows for 2-person operation.



Description	Max. Drilling Torque	Mfr. Model	Item No.
Gas-Powered Earth/Ice Auger			
Two-Cycle 42.7cc Engine with Variable Throttle Control	48.97 ft/lb	EA-410	**44Y641**
Earth/Ice Auger Bits			
4" dia. with Point, 36"L		99944900170	**44Y644**
6" dia. with Point and Spring, 34"L		99944900180	**44Y645**
8" dia. with Point and Spring, 34"L		99944900190	**44Y646**
10" dia. with Point and Spring, 34"L		99944900200	**44Y647**
Dual-Blade Ice Auger Bits			
8" dia. x 40"L		99944900280	**44Y656**
10" dia. x 40"L		99944900290	**44Y657**
Replacement Auger Point Bits			
2" Earth Auger Point		99944900270	**44Y654**
Ice Auger Point		99944900275	**44Y655**
Extension Shafts and Adapter			
⅞" dia. x 12"L Extension Shaft		99944900220	**44Y649**
⅞" dia. x 18"L Extension Shaft		99944900210	**44Y648**
⅞" dia. to 1" dia. Earth Auger Adapter with Spring		99944900335	**44Y660**



KUSHLAN PRODUCTS, LLC

Plate Compactors and Tamping Ram

PLATE COMPACTORS

Heavy-duty shock mounting helps reduce vibration to upper engine handle. Sealed belt cover helps keep out sand and soil, and open plate is self-cleaning.

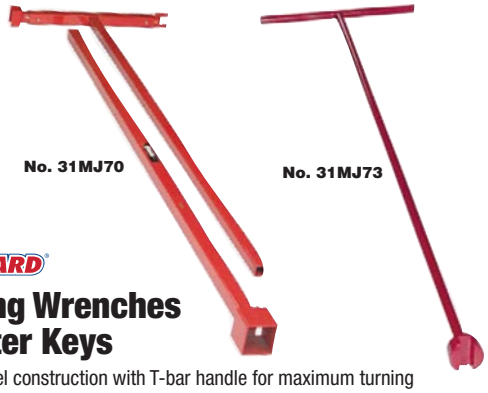
Single Direction—Plate compactor has water tank, sprayer, and collapsible handle. High-powered engine with low fuel consumption. Fluid tank and dolly wheels are removable for easier movement.

Reversible Plate—Forward and reverse gears allow greater mobility in trench work. Heavy-gauge cast-steel base plate resists wear. Centrally located lifting bar and dolly wheels ease transport. Wraparound cage helps protect plate from damage. Use to compact asphalt, gravel, and mixed materials.

TAMPING RAM

Features heavy-duty roll cage and heavy-duty throttle cable. Includes removable dolly wheels for easier mobility. Utilizes lean carburetor settings and additional measures to reduce the emissions of carbon monoxide, oxides of nitrogen and hydrocarbons which are produced in the combustion process.

Description	Plate Size	Force	Vibration	W	L	Weight	Mfr. Model	Item No.
Plate Compactors								
Single Direction with Loncin Engine	18" x 23⅝"	2300 lb.	3600 VPM	20"	39"	180 lb.	KPC160-L-W	**54DH93**
Reversible with Honda GX270 Engine	14⅝" x 28½"	2500 lb.	4300 VPM	21	48"	275 lb.	KPRC160	**6LCW4**
Tamping Ram								
Loncin Engine	11" x 13"	4000 lb.	350 to 700 VPM	20"	24"	275 lb.	KRM160-L	**54DH91**



WESTWARD

Operating Wrenches and Meter Keys

Heavy-duty steel construction with T-bar handle for maximum turning leverage. Use to reach underground valves. Powder-coated for corrosion resistance. Nos. 31MJ69 and 31MJ70 are multifunction wrenches with 3 keys stored on the wrench (held in place with spring-steel snap pins) eliminating the need for 3 different tools.

Description	Item No.
Operating Wrenches	
2¼" Square Key with 60° T-bar Handle	**31MJ68**
2¼" Square Key, 1" Valve Key, and 1" Meter Key with 3-ft. to 5-ft. T-bar Handle	**31MJ69**
2¼" Square Key, 1" Valve Key, and 1" Meter Key with 5-ft. to 9-ft. T-bar Handle	**31MJ70**
Meter Keys	
¾" dia. Shaft and ¾"W Groove and 32" T-bar Handle	**31MJ72**
¾" dia. Shaft and ¾"W Groove and 60" T-bar Handle	**31MJ73**

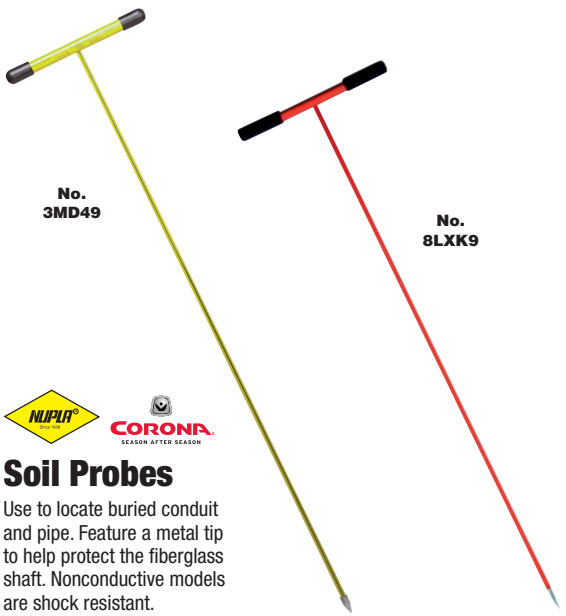


TRUE TEMPER
NUPLA®
WESTWARD

Tampers

Sturdy cast-steel heads handle heavy-duty leveling and compacting of dirt, gravel, and asphalt.

Handle Type	Handle L	Handle Material	Mfr. Model	Brand	Item No.
8" Plate					
Straight	42"	Wood	11334GR	True Temper	**6HFZ7**
Tube with Rubber Grip	43"	Steel	—	Westward	**38ZD98**
Straight with Butt Grip	48"	Fiberglass	69829	Nupla	**2UE98**
10" Plate					
Straight	42"	Wood	1142500	True Temper	**1MDW6**
Tube with Rubber Grip	43"	Steel	—	Westward	**38ZD97**
Straight with Butt Grip	48"	Fiberglass	69831	Nupla	**2UE99**



NUPLA®
CORONA SEASON AFTER SEASON

Soil Probes

Use to locate buried conduit and pipe. Feature a metal tip to help protect the fiberglass shaft. Nonconductive models are shock resistant.

Description	Brand	Item No.
4-ft. T-Bar Handle	Nupla	**3MD49**
4-ft. T-Bar Handle, Nonconductive	Nupla	**4GFF5**
4-ft. Fiberglass Probe with Replaceable Metal Tip	Corona	**8LXK9**
4-ft. Steel Probe with Grip	Corona	**8XRR2**
5-ft. T-Bar Handle, Nonconductive	Nupla	**4GFF6**

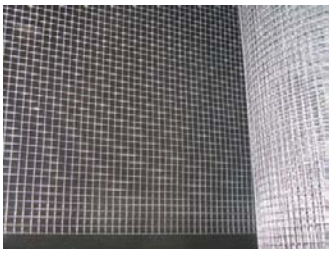
JAMESON

Telescoping Measuring Pole

Lightweight, nonconductive fiberglass pole allows one person to accurately measure height clearances and horizontal distances for bridges, overhead lines, and in telephone and railroad applications. Has eye-level measurement reading window with English scale. Includes removable hook and carrying bag.

Description	Mfr. Model	Item No.
25-ft. Overall Length, 58" Retracted Length	TP-125N	**10F481**




No. 4LVE3


No. 4LVP8


No. 4LVN9

GA GRAINGER APPROVED

Hardware Cloth, Netting, Wire, and Barbless Cable

- Galvanized steel construction

HARDWARE CLOTH AND POULTRY NETTING

Hardware Cloth—Welded cloth has a double zinc coating for maximum rust resistance and long life. Can be used as tree guards, window covers, on screen doors, gutters, and more.

Poultry Netting—A lightweight containment solution for many maintenance projects. For use in plant protection, animal cages, as a soil erosion inhibitor, and more.

WIRE AND BARBLESS CABLE

Electric Fence Wire—2 wire gauges in different lengths work with most farm voltages.

Smooth Wire—Durable, single-strand wire with rust-resistant finish is ideal for bundling, hanging, and tying.

Barbed Wire—Can be installed in line or as loose coil. Ideal for agriculture, animal boundary, military and prison protection, and security applications.

Barbless Cable—Economical way to control livestock without the entanglement dangers of a barbed wire fence.

Gauge	Mesh Size	H	L	Item No.
Hardware Cloth and Poultry Netting				
Hardware Cloth				
19	½"	2 ft.	50 ft.	4LVE6
	½"	3 ft.	50 ft.	4LVE7
	½"	4 ft.	50 ft.	4LVE8
23	¼"	2 ft.	50 ft.	4LVE3
	¼"	3 ft.	50 ft.	4LVE4
	¼"	4 ft.	50 ft.	4LVE5
27	⅛"	2 ft.	100 ft.	4LVP5
	⅛"	3 ft.	100 ft.	4LVP6
Poultry Netting				
20	1"	1 ft.	50 ft.	4LVE9
	1"	1½ ft.	50 ft.	4LVF1
	1"	2 ft.	50 ft.	4LVF2
	1"	3 ft.	50 ft.	4LVF3
	1"	4 ft.	50 ft.	4LVF4
	1"	5 ft.	50 ft.	4LVF5
	1"	6 ft.	50 ft.	4LVF6
	2"	2 ft.	50 ft.	4LVF7
	2"	3 ft.	50 ft.	4LVF8
	2"	4 ft.	50 ft.	4LVF9
	2"	6 ft.	50 ft.	4LVG2

Gauge	L	Item No.
Wire and Barbless Cable		
Electric Fence Wire		
17	1320 ft.	4LVR1
17	2640 ft.	4LVR2
14	1320 ft.	4LVP8
14	2640 ft.	4LVP9
Smooth Wire		
12½ ga.	390 ft.	4LVP7
Barbed Wire - 2 Barbs every 5"		
15½ ga.	1320 ft.	4LVP3
12½ ga.	1320 ft.	4LVN9
Barbed Wire - 4 Barbs every 5"		
15½ ga.	1320 ft.	4LVP4
12½ ga.	1320 ft.	4LVP1
Barbless Cable		
12½ ga.	1320 ft.	4LVP2

TENAX
MAURITZON
GA GRAINGER APPROVED


No. 34L449


No. 5WUE5

Fence Screens and Scaffolding Netting

Privacy and Debris Screens are durable, lightweight, tear resistant, and easy to install. HDPE screen material will not absorb water. Windscreen is ideal for windy locations and where privacy and security are desired. Screen is easy to install, highly visible, and has wing-type openings that allow air to flow through. Material has horizontal and vertical tear-proof bands for greater stability in windy conditions.

H	L	Color	Brand	Item No.
Privacy Screen				
5.6 ft.	150 ft.	Green	TENAX	34L449
	150 ft.	Black	TENAX	34L450
7.8 ft.	150 ft.	Green	TENAX	34L452
	150 ft.	Black	TENAX	34L453
6 ft.	25 ft.	Green	Mauritzon	48NW05
Debris/Scaffolding Netting				
4 ft.	150 ft.	Orange	TENAX	417T52
Windscreen				
4 ft.	165 ft.	Black	GA	5WUE5
	165 ft.	Tan	GA	5WUE6


No. 4LVG3


No. 46V227


No. 4LVN8

GA GRAINGER APPROVED

Fence Posts and Drivers

Fence Posts—U-Channel posts are compatible with poultry netting and hardware cloth. T-Shape posts are constructed from high-strength rail steel and are ideal for safety, snow, silt, and agricultural wire fencing, and more.

Manual Fence Post Drivers—Weighted and reinforced steel heads are ruggedly constructed for driving steel fence posts, while the tapered loop handles offer comfortable hand placement.

Description	H	Item No.
Fence Posts		
U-Channel Fence Post, 0.47 lb. Wt./Ft.	36"	4LVG3
	48"	4LVG4
	60"	4LVG5
	72"	4LVG6
T-Shape, 1.33 lb. Wt./Ft.	48"	46V227
	60"	46V228
	72"	46V229
Manual Fence Post Drivers		
2 ¾" I.D. Steel Tube, 17.5 lb.	—	4LVN8
3 ½" I.D. Steel Tube Driver	—	9ANX7


No. 12N498


No. 4LVK3


No. 12N501

VORTEX OUTDOOR SOLUTIONS QUICK. EASY. SECURE.
GA GRAINGER APPROVED

Earth Anchors

Designed to eliminate the need to dig or use concrete to secure your valuable items such as tie down tarps, tents, shelters, and outdoor furniture; or install posts.

Description	L	Dia.	Color	Brand	Item No.	Pkg. Qty.
Plastic Earth Anchor						
Screw-In	7½"	¾"	Green	Vortex	12N498	4
Steel Earth Anchors						
Screw-In	15"	3"	Red	GA	4LVK3	1
	30"	3"	Red	GA	4LVK4	1
	40"	4"	Red	GA	4LVK5	1
	48"	6"	Red	GA	4LVK6	1
Spiral with Folding Ring	8"	3"	Orange	Vortex	12N499	1
	10"	3"	Orange	Vortex	12N501	1
	16"	3"	Orange	Vortex	12N502	1

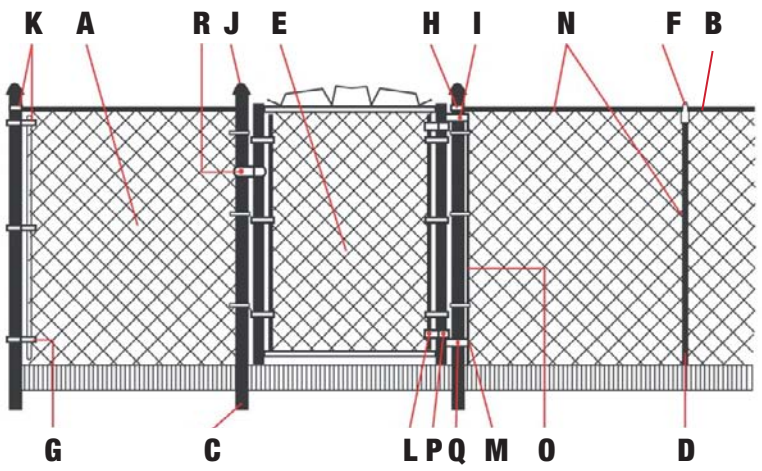

No. 33L955

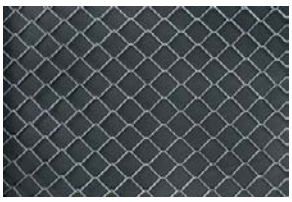
TENAX
GA GRAINGER APPROVED

Barrier Fencing

Tenax® Snow Fence No. 9KDE5 is a UV stabilized fence with oval mesh openings designed to slow wind and create drifts for snow storage so they will not interfere with roadways, driveways, or runways. Strong HDPE plastic resists wind damage and remains flexible in freezing temperatures. Tenax Safety Fence features smooth top and bottom borders that are less likely to cut and scrape adjacent materials during installation and removal. Fences are reusable, lightweight sets providing boundaries around work zones, construction sites, sporting events, and blowing sand, silt, or snow. Also effective for crowd control.

Mesh Size	Mesh Shape	Color	Material	H	L	Brand	Item No.
Snow Fence							
1 x 4"	Oval	Orange	HDPE	4 ft.	100 ft.	TENAX	9KDE5
1½ x 1¾"	Square	Green	HDPE	4 ft.	50 ft.	GA	33L956
1¼ x 3⅛"	Oval	Black	HDPE	4 ft.	50 ft.	GA	33L957
Safety Fence							
1¼ x 1½"	Diamond	Orange	Polyethylene	4 ft.	50 ft.	TENAX	8ENE1
1½" x 1¾"	Diamond	Green	HDPE	4 ft.	50 ft.	GA	33L958
1½ x 1¾"	Square	Hi-Vis Yellow/Green	HDPE	4 ft.	100 ft.	GA	33L959
2 x 2⅜"	Square	Orange	Polypropylene	4 ft.	100 ft.	GA	33L954
1" x 3"	Oval	Orange	Plastic	4 ft.	50 ft.	TENAX	417T54
1" x 3"	Oval	Orange	Plastic	4 ft.	100 ft.	TENAX	417T55
3½ x 1 7/10"	Oval	Orange	Polypropylene	4 ft.	50 ft.	TENAX	9ME95
Barrier Fence							
1¾ x 1¾"	Diamond	Orange	HDPE	4 ft.	50 ft.	GA	33L955




A.


B. C. D.


E.

GA GRAINGER APPROVED

Chain-Link Fencing

A. Fabric—Galvanized zinc is uniformly applied to steel wire before weaving for an even, protective coating that is free of sharp burrs. Smooth fabric is easy to work with during installation.

B. Top Rails—Pregalvanized sheet steel is formed into tubing.

C. and D. Terminal and Line Fence Posts—Galvanized steel terminal posts are used at the ends of a run as corner posts or as gate posts. Line posts are used as support posts in the middle of a run.

E. Gates—Steel is galvanized before weaving. Welded frame with 17-ga., 1⅜" tubing, and 9-ga. fabric fill, which is galvanized before weaving into 2" mesh.

F. to Z. Fence and Gate Hardware—Extensive assortment of aluminum and galvanized fittings are manufactured to rigid quality standards.

Key	Gauge	Mesh Size	H	L	Item No.
Fabric					
A	11½	2⅜"	4 ft.	50 ft.	**4LVK7**
	9	2"	4 ft.	50 ft.	**4LVK8**
	9	2"	6 ft.	50 ft.	**4LVK9**

Key	Gauge	L	Dia.	Item No.
Top Rails				
B	17	10½ ft.	1⅜"	**4LVL1**
	16	21 ft.	1⅝"	**4LVL2**
Terminal Posts				
C	16	72"	2⅜"	**4LVL3**
	16	96"	2⅜"	**4LVL4**
Line Fence Posts				
D	16	72"	1⅝"	**4LVL5**
	16	96"	1⅝"	**4LVL6**
	15	96"	1⅞"	**4LVL7**

Key	Gauge	Mesh Size	W	H	Item No.
Gates					
E	9	2⅜	48"	48"	**4LVN1**
	9	2⅜	48"	72"	**4LVN2**

Key	Description	Size	Material	Finish	Item No.
Fence and Gate Hardware					
F	Eye Top	1⅝"-dia.	Aluminum	Plain	**4LVJ1**
	Eye Top	1⅝" Rail and 1⅞" Post	Aluminum	Plain	**4LVN3**
G	Tension Band	2⅜"-dia.	Steel	Galvanized	**4LVJ6**
H	Brace Band	2⅜"-dia.	Steel	Galvanized	**4LVH9**
I	Rail End Cup	1⅜" Post and ½" Tab Hole-dia.	Aluminum	Plain	**4LVJ4**
	Rail End Cup	1⅝" Post and ½" Tab Hole-dia.	Aluminum	Plain	**4LVJ5**
J	Post Cap	2⅜"-dia.	Aluminum	Plain	**4LVJ3**
K	Carriage Bolts	5/16"-dia.	Steel	Galvanized	**4LVJ9**
L	Carriage Bolts	⅜"-dia.	Steel	Galvanized	**4LVK1**
M	Carriage Bolts	⅜"-dia.	Steel	Galvanized	**4LVK2**
N	Chain Link Ties	8¼"L	Aluminum	Plain	**4LVH6**
O	Tension Bar	⅝"H x 3/16"W x 70"L	Steel	Galvanized	**4LVL9**
P	Gate Frame Hinge	1⅜" dia.	Steel	Galvanized	**4LVH2**
	Gate Frame Hinge	1⅝" dia.	Steel	Galvanized	**4LVH3**
Q	Post Hinge	2⅜"-dia.	Steel	Galvanized	**4LVH4**
R	Fork Latch	1⅜ to 2⅜" dia.	Steel	Galvanized	**4LVG7**
S	Barbed Wire Arm Corner	2⅜"-dia.	Steel	Galvanized	**4LVH7**
T	Barbed Wire Line Arm	1⅝"-dia.	Steel	Galvanized	**4LVH8**
	Barbed Wire Line Arm	1⅞"-dia.	Steel	Galvanized	**4LVN4**
	Barbed Wire Line Arm	2⅜"-dia.	Steel	Galvanized	**4LVN5**
U	Gate Clip	1⅜" dia.	Steel	Galvanized	**4LVG8**
V	Gate Corner	1⅝" dia.	Steel	Galvanized	**4LVG9**
W	Gate Elbow	1⅜" dia.	Aluminum	Plain	**4LVH1**
X	Line Rail Clamp	2⅜" Post and 1⅝" Rail	Steel	Galvanized	**4LVJ2**
Y	Panel Clamp	1⅜"-dia.	Steel	Galvanized	**4LVH5**
Z	Top Rail Sleeve	1⅝"-dia.	Steel	Galvanized	**4LVJ8**


F.


G.


H.


I.


J.

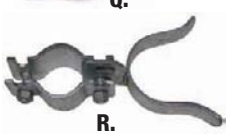

K. L. M.

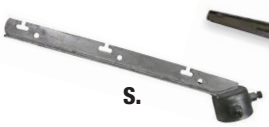

N.

O.


P.


Q.


R.


S.


T.


U.


V.


W.


X.


Y.


Z.



No. 34FY05



No. 35Z910

DeWitt DOWN TO EARTH PROTECTION TENAX Solutions All Around You.

Erosion Control Blankets and Silt Fences

These soil-preserving products control erosion and sediment.

EROSION CONTROL BLANKETS AND STAPLES

Biodegradable blankets contain at least 80% aspen wood fiber. Topped with a photodegradable netting. Green color. Biodegradable anchor staples sold separately.

SILT FENCE WITH WOOD STAKES

Lightweight woven fabric lets fluids pass through while trapping soil, preventing soil loss. Fencing is preattached to posts for easy installation.

Description	Brand	Item No.
Erosion Control Blankets and Staples		
Blanket, 4 ft. x 112.5 ft.	Dewitt	**34FY05**
Blanket, 8 ft. x 112.5 ft.	Dewitt	**34FY06**
Staples, 4"H, Pkg. of 1000	Dewitt	**9J752**
Silt Fence with Wood Stakes		
2 ft. x 100 ft.	TENAX	**35Z910**
3 ft. x 100 ft.	TENAX	**35Z911**



No. 491R34



No. 31NG41



No. 491R35



No. 425Y08



No. 1HLW6



No. 425Y10

Gilmour NELSON

Sprinklers

Whirling Sprinklers—Innovative shape control allows easy customizing of the sprinklers to the coverage area. On/Off switch allows you to adjust water flow at the sprinkler, not the faucet.

Impulse Spike Sprinkler—Shape adjustment is as simple as moving the collars to mirror the shape of the desired coverage area. On/Off switch eliminates trips from sprinkler to spigot, without getting soaked.

Oscillating Sprinklers—Plastic No. 425Y08 and metal No. 425Y09 are fully adjustable oscillating sprinklers with width and length controls. No. 425Y09 features On/Off control.

Traveling Sprinkler—Travels up to 200 ft. Adjustable arms and automatic shut-off. Die-cast iron body.

Tripod Telescoping Sprinkler—Far-reaching spray for large coverage areas. Metal stand and spiked feet provide durability and maximum stability.

Description	Hose Connec.	Spray Coverage	Brand	Item No.
Whirling Sprinklers	¾" GHT	45 ft. dia.	Gilmour	**491R34**
	¾" GHT(F)	45 ft. dia.	Gilmour	**31NG41**
Impulse Spike Sprinkler	¾" GHT	45 ft. dia.	Gilmour	**491R35**
Oscillating Sprinklers	¾" GHT	3900 sq. ft.	Gilmour	**425Y08**
	¾" GHT	3900 sq. ft.	Gilmour	**425Y09**
Traveling Sprinkler	¾" GHT	13,500 sq. ft.	Nelson	**1HLW6**
Tripod Telescoping Sprinkler	¾" GHT	7238 sq. ft.	Gilmour	**425Y10**



No. 8UNT8



No. 9W936

Tree Watering Bags

treegator Slow release watering bags for trees & shrubs

Slow-release water bags provide an efficient means of properly watering newly planted trees or shrubs and promoting deep root growth. No. 8UNT8 is for use on a level surface for proper drainage. Low-profile design is for use on low-brushed bushes and trees such as pines. No. 9W936 can be used with chemical and nutrient additives and can be zipped together for larger applications.

Description	Color	Drain Time	Max. Tree Dia.	Item No.
6"H x 35" dia.—For Evergreens, Trees, and Shrubs	Brown	4 to 8 hr.	5"	**8UNT8**
30"H x 18"W at Base—For Shade Trees	Green	5 to 9 hr.	4"	**9W936**



suncast

Rain Barrel

Ideal for capturing rainwater for garden and lawn watering needs. Filters keep leaves and yard waste out of water. Made of resin with child and pet proof, snap-top lid. Overflow hose doubles as a connection hose to link an additional rain barrel.

Description	Cap.	Color	Item No.
Rain Barrel with Drain Hose, Includes Shutoff Valve	50 gal.	Taupe	**4TMJ3**


No. 4KG68


No. 15X960


No. 15X966


No. 20KP43


No. 15X958


No. 15X959


No. 15X964


No. 15X965


No. 20KP39


No. 1HLX6


No. 4KG82


No. 1P724


No. 4X072


No. 4KG86


No. 4KG84


No. 4KG81


No. 1P723


No. 4KG88



No. 4KG97


No. 4KH02


No. 3DTH4


No. 3DTH2


No. 3DTH5


No. 15X969


No. 426G23


No. 31NG42

★WESTWARD® NELSON® Gilmour® BANJO® Liquid Handling Products ★GA GRAINGER APPROVED

Water Hose Repair Fittings and Accessories

Description†	Body Material*	Brand	Item No.
Water Hose Repair Kits (GHT)			
⅝" Worm Gear Clamp Assembly	Brass	Westward	**4KG68**
¾" Worm Gear Clamp Assembly	Brass	Westward	**4KG67**
⅝" and ¾" Compression Fit Assembly	Rezimar™	Nelson	**15X960**
⅝" and ¾" Compression Fit Assembly	Metal	Nelson	**15X963**
⅝" and ¾" Clamp-Style Assembly	Brass/Metal	Nelson	**15X966**
Water Hose Repair Kits			
½" Coupling Assembly	Brass	Westward	**20KP42**
⅝" Coupling Assembly	Brass	Westward	**20KP43**
¾" Coupling Assembly	Brass	Westward	**20KP44**
Water Hose Repair Couplings (GHT)			
⅝" and ¾" Compression Fit Male End	Rezimar™	Nelson	**15X958**
⅝" and ¾" Compression Fit, Male End	Metal	Nelson	**15X961**
⅝" and ¾" Compression Fit, Female End	Rezimar™	Nelson	**15X959**
⅝" and ¾" Compression Fit, Female End	Metal	Nelson	**15X962**
⅝" and ¾" Clamp-Style, Male End	Brass/Zinc	Nelson	**15X964**
⅝" and ¾" Clamp-Style, Female End	Brass/Metal	Nelson	**15X965**
Water Hose Repair Couplings (NH)			
¾" and ½" Coupling, Male End	Brass	Westward	**20KP36**
¾" and ⅝" Coupling, Male End	Brass	Westward	**20KP37**
¾" and ¾" Coupling, Male End	Brass	Westward	**20KP38**
¾" and ½" Coupling, Female End	Brass	Westward	**20KP39**
¾" and ⅝" Coupling, Female End	Brass	Westward	**20KP40**
¾" and ¾" Coupling, Female End	Brass	Westward	**20KP41**
Water Hose Washers (GHT)			
⅝" ID x 1" OD, Pkg. of 10	Rubber	Gilmour	**1HLX6**
Hose to Hose Connectors (GHT x GHT)			
Irrigation Fittings; Max. Pressure: 125 psi			
¾ x ¾" Double Male	Brass	Westward	**4KG82**
¾ x ¾" Swivel, Double Female	Brass	Westward	**1P724**

Description†	Body Material*	Brand	Item No.
Hose to Pipe Connectors (GHT x NPT)			
¾ x ½" Double Male	Brass	Westward	**1P654**
¾ x ¾" Double Male	Brass	Westward	**4X072**
¾ x ½" Double Female	Brass	Westward	**4KG85**
¾ x ¾" Double Female	Brass	Westward	**4KG86**
¾ x ½" Male/Female	Brass	Westward	**4KG83**
¾ x ¾" Male/Female	Brass	Westward	**4KG84**
¾ x ¾" Double Male	Brass	Westward	**4KG81**
¾ x ¾" Female/Male	Brass	Westward	**1P723**
¾ x ½" Swivel, Double Female	Brass	Westward	**4KG87**
¾ x ¾" Swivel, Double Female	Brass	Westward	**4KG88**
GHT Quick Connectors			
⅝" Quick Connector Set	Brass	Westward	**4KG97**
⅝" Quick Connector Set with Automatic Shut-Off	Brass	Westward	**4KG98**
¾" Quick Connector Set	Brass	Nelson	**1HLX4**
⅝" Double Male Connector	Brass	Westward	**4KH02**
¾" Double Male Connector	Brass	Nelson	**1HLX5**
Quick Connect Cam Lever Adapters, Couplers, and Gasket			
¾" x ¾" GHMT Adapter	Polypropylene	Banjo	**3DTH4**
¾" x ¾" GHFT Adapter	Polypropylene	Banjo	**3DTH1**
¾" x ¾" GHMT Coupler	Polypropylene	Banjo	**3DTH2**
¾" x ¾" GHFT Coupler	Polypropylene	Banjo	**3DTH3**
¾" Gasket for Coupler Nos. 3DTH2 and 3DTH3	EPDM	Banjo	**3DTH5**
Water Hose Shut-off Valves			
Single Outlet	Brass/Metal	Nelson	**15X969**
Single Outlet	Zinc	Gilmour	**426G24**
Dual Wye Outlet	Zinc	Gilmour	**426G23**
Dual Wye Outlet with Swivel Coupling	Rezimar™	Nelson	**15X968**
Dual Wye Outlet, Kink-Free and High-Flow	Rezimar™	GA	**2LPN7**
Four-Way Shut-off Valve	Plastic	Gilmour	**31NG42**
Four-Valve Adaptor	Brass	Nelson	**35ZD37**
Four-Way Stacked Wye Outlet	Rezimar™	Nelson	**15X967**

Rezimar™ = metal/polymer blend. † GHT = garden hose thread, NH = national hose thread, NPT = national pipe thread, GHMT = garden hose male thread, GHFT = garden hose female thread.


No. 15X972


No. 45HE13


No. 2LPN2


No. 426G20


No. 425Y04


No. 425X97


No. 1HLV6


No. 1HLV5


No. 425X95


No. 8DPM0

Water Hose Nozzles and Watering Wands

- GHT connections

Gilmour® models feature swivel connection to reduce kink potential, ensuring consistent flow.
EZ Click™ actuation means one simple click to achieve continuous flow.

Gilmour NELSON DRAMM® GA GRAINGER APPROVED

Features	Body Material*	Max. Pressure	Max. Temp.	Brand	Item No.
Industrial Duty					
Single Spray Hose Nozzles					
High-Flow Fire Hose Spray Tip with Adjustable Spray/Shut-Off Handle	Zinc	250 psi	100°F	Gilmour Pro	**2LPN3**
Adjustable Twist Spray/On-Off Nozzle	Zinc	200 psi	100°F	Nelson	**15X972**
Water Nozzle, Thumb Control, Heavy Duty Zinc Coupling, Crush Proof	Zinc	125 psi	100°F	Gilmour	**45HE13**
Insulated Handle and Adjustable Spray Nozzle with Flow Control Turn Knob	Zinc	100 psi	160°F	Gilmour Pro	**2LPN2**
Insulated Handle and Adjustable Spray Tension Screw	Zinc	100 psi	160°F	Gilmour	**426G20**
Heavy Duty					
Cleaning Nozzle, Front Trigger, Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425X98**
Cleaning Nozzle, Thumb Control, Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425X99**
Cleaning Nozzle, EZ Click™, Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425Y01**
Rubber Grip Straight Brass Nozzle, Twist Adjust Flow	Metal	100 psi	100°F	Gilmour	**425Y05**
Multipattern Spray Nozzles					
Watering Nozzle, Front Trigger , Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425Y02**
Watering Nozzle, Thumb Control, Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425Y03**
Watering Nozzle, EZ Click™, Soft Grip Handle	Metal	100 psi	100°F	Gilmour	**425Y04**
Medium Duty					
Single Spray Hose Nozzles					
Cleaning Nozzle, Rear Trigger, Soft Grip Handle	Plastic	100 psi	100°F	Gilmour	**425X96**
Multipattern Spray Nozzles					
Watering Nozzle, Rear Trigger	Plastic	100 psi	100°F	Gilmour	**425X97**
Standard Duty					
Single Spray Hose Nozzles					
Adjustable Twist Spray	Brass	60 psi	100°F	Gilmour	**1HLV6**
Adjustable Spray Tension Screw with Locking Clip, Yellow	Zinc	60 psi	100°F	Nelson	**1HLV5**
Threaded Front Adjustable Spray Tension Screw with Locking Clip	Brass Stem/Steel Exterior	60 psi	100°F	Gilmour	**15X957**
Watering Spray Wands					
30 51/64"L Pro Power Jet Wand with Adjustable Spray	Metal	125 psi	100°F	Gilmour	**425X95**
16" Rain Wand w/Foam Grip, Red	Aluminum	100 psi	100°F	Dramm	**8CY48**
16" Rain Wand w/Foam Grip, Green	Aluminum	100 psi	100°F	Dramm	**8DPM0**
16" Rain Wand w/Foam Grip, Berry	Aluminum	100 psi	100°F	Dramm	**9HZY5**
32"L Aluminum Wand with Flow Control Lever Switch	Rezimar™	60 psi	100°F	GA	**1HLV2**

**** Rezimar™ = metal/polymer blend.***



HYDE
For a better finish, start with HYDE.

Pivoting Nozzle Pole

A slide grip pivots the nozzle up to 135° to reach spray into tight spaces and awkward angles. Attaches to your existing garden hose for longer reach and spray patterns from fine mist to high power, 2.5 to 5 gpm. The adjustable nozzle has a rubberized tip to protect surfaces. It can be exchanged with any standard garden hose accessory to use the pole's pivot action and reach. The hose interface spins freely to prevent kinks. Features water/soap mixture control and easy switch to clean water only for rinsing.

Description	L	Mfr. Model	Item No.
Pivoting Nozzle Pole with Soap Reservoir	38"	28470	**28AF47**

TOUGH GUY Flexon watering done right since 1956 GA GRAINGER APPROVED TUFF-GUARD

Cold Water Hoses

- Premium-Duty: 6 ply
- Heavy-Duty: 5 ply
- Standard-Duty: 4 ply
- Light-Duty: 2 and 3 ply
- Super Light-Duty: 1 ply

All have GHT connections. Hoses with aluminum couplings are certified for use in potable water applications. PVC Premium- and Heavy-Duty Hoses are kink-resistant and have crushproof couplings. Standard-Duty polypropylene hoses feature a helix wrap, providing flexibility. They resist abrasion, crushing, and kinks. Polypropylene material is up to 35% lighter than standard hoses. Collapsible Hose No. 423J02 is a fabric hose. Super Light-Duty Soaker Hose No. 423H99 can be used above ground or buried for direct underground soaking.

Operating Temp.	Number of Ply	Hose Inside Dia.	Hose L	Hose Color	Coupling Material	Max. Pressure	Brand	Item No.
Premium-Duty Hoses								
PVC								
130°F Max. Temp.	6	⅝"	50 ft.	Black	Aluminum	500 psi	Tough Guy	**423H80**
	6	⅝"	100 ft.	Black	Aluminum	500 psi	Tough Guy	**423H81**
Heavy-Duty Hoses								
PVC								
130°F Max. Temp.	5	⅝"	50 ft.	Black	Aluminum	500 psi	Tough Guy	**423H86**
	5	⅝"	50 ft.	Green	Aluminum	500 psi	Tough Guy	**423H87**
	5	⅝"	100 ft.	Green	Aluminum	500 psi	Tough Guy	**423H88**
	5	¾"	50 ft.	Black	Aluminum	500 psi	Tough Guy	**423H89**
	5	¾"	50 ft.	Green	Aluminum	500 psi	Tough Guy	**423H90**
	5	¾"	75 ft.	Black	Brass	500 psi	Tough Guy	**423H91**
	5	¾"	75 ft.	Green	Brass	500 psi	Tough Guy	**423H92**
Standard-Duty Hoses								
PVC								
90°F Max. Temp.	4	⅝"	50 ft.	Green	Brass	250 psi	Tough Guy	**423H93**
	4	⅝"	100 ft.	Green	Brass	250 psi	Tough Guy	**423H94**
	4	½"	50 ft.	White	Aluminum	100 psi	Tough Guy	**423H97**
	4	⅝"	50 ft.	White	Aluminum	100 psi	Tough Guy	**423H98**
	4	½"	25 ft.	White	Aluminum	100 psi	Tough Guy	**423H96**
130°F Max. Temp.	4	⅝"	100 ft.	Yellow	Aluminum	250 psi	Tough Guy	**491G54**
Collapsible Nylon/PVC								
90°F Max. Temp.	0	½"	50 ft.	Green	Aluminum	400 psi	Flexon	**423J02**
Light-Duty Hoses								
PVC								
90°F Max. Temp.	3	⅝"	50 ft.	Green	Plastic/Brass	175 psi	Tough Guy	**423H95**
	3	⅝"	15 ft.	Green	Brass	175 psi	GA	**423J01**
Polypropylene								
158°F Max. Temp.	2	⅝"	25 ft.	Blue	Brass	100 psi	Tuff Guard	**29FX94**
	2	⅝"	50 ft.	Green	Brass	100 psi	Tuff Guard	**29FX92**
	2	⅝"	50 ft.	Red	Brass	100 psi	Tuff Guard	**29FX93**
	2	⅝"	50 ft.	Blue	Brass	100 psi	Tuff Guard	**12F252**
	2	⅝"	100 ft.	Green	Brass	100 psi	Tuff Guard	**34FW19**
	2	⅝"	100 ft.	Blue	Brass	100 psi	Tuff Guard	**12F253**
Super Light-Duty Soaker Hoses								
Rubber/PVC								
90°F Max. Temp.	1	½"	50 ft.	Black	Plastic	100 psi	Tough Guy	**423H99**



No. 423H80



No. 423H87



No. 423H94



No. 423J02



No. 423H95



No. 12F252



No. 423H99



No. 442F17



No. 423H82

TOUGH GUY

Heavy-Duty Hot/Cold Water Hoses

- GHT connections

Kink-resistant SEBS (Styrene Ethylene Butylene Styrene) hoses, Nos. 442F17 and 442F18 are certified for use in potable water applications and NSF 61 Listed. Rubber hoses have crushproof couplings and high-burst pressure.

Operating Temp.	Number of Ply	Hose Inside Dia.	Hose Length	Hose Color	Coupling Material	Max. Pressure	Item No.
Kink-Resistant Rubber Compound Hoses							
-40° to 165°F Max. Temp.	4	⅝"	50 ft.	Red	Aluminum	400 psi	**442F17**
-40° to 160°F Max. Temp.	4	¾"	50 ft.	Red	Aluminum	400 psi	**442F18**
Rubber Hoses							
180°F Max. Temp.	3	⅝"	25 ft.	Red	Aluminum	400 psi	**423H82**
	3	⅝"	50 ft.	Red	Aluminum	401 psi	**423H83**
	3	⅝"	75 ft.	Red	Aluminum	402 psi	**423H84**
	3	¾"	50 ft.	Red	Aluminum	403 psi	**423H85**


No. 55AX13

Continental ContiTech

EPDM Garden Hoses

- Temp. Range -40° to 190°F
- Safety Factor 4:1

EPDM (ethylene propylene diene monomer) garden hoses provide excellent resistance to UV rays and ozone and are used in landscaping and grounds-maintenance applications. Feature fittings on both ends for attaching to equipment.

Hose I.D.	Max. Working Pressure @ 70°F	25 ft Item No.	50 ft Item No.	75 ft Item No.	100 ft Item No.
½ in	150 psi	**55AW94**	**55AW98**	**55AX03**	**55AX23**
	150 psi	**55AX11**	**55AX15**	**55AX19**	**55AX07**
⅝ in	130 psi	**55CN83**	**55CN84**	—	**55CN85**
	150 psi	**55AW95**	**55AW99**	**55AX04**	**55AX08**
	150 psi	**55AX12**	**55AX16**	**55AX20**	**55AX24**
¾ in	150 psi	**55AW96**	**55AX01**	**55AX05**	**55AX09**
	150 psi	**55AX13**	**55AX17**	**55AX21**	**55AX25**
1 in	150 psi	**55AW97**	**55AX02**	**55AX06**	**55AX10**
	150 psi	**55AX14**	**55AX18**	**55AX22**	**55AX26**


No. 2WE75


No. 16X129


No. 2LRL1


No. 48PG05

Hose Hangers

Poly—Rugged polymer construction with slotted fastening to ease hose hanger removal.

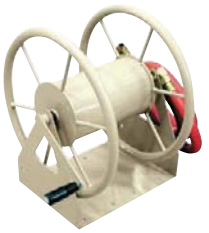
Steel—No. 2LRK7 is standard-duty with powder-coated finish. No. 2LRL1 is heavy-duty with powder-coated finish. No. 16X130 has double-braced construction.

Features	Reel W	Hose Cap. I.D. ½"	⅝"	¾"	Brand	Item No.
Poly, Wall-Mount						
Slotted Fastening	9"	—	150 ft.	100 ft.	Ames	**2WE75**
Steel, Wall-Mount						
19 Ga.	9¼"	100 ft.	75 ft.	50 ft.	Liberty	**2LRK7**
Galvanized Tube	11"	175 ft.	150 ft.	110 ft.	Yard Butler	**16X129**
12 Ga.	9¾"	150 ft.	125 ft.	100 ft.	Liberty	**2LRL1**

Features	Reel W	Hose Cap. I.D. ½"	⅝"	¾"	Brand	Item No.
Steel, Freestanding						
Rust Resistant Powder Coat	11"	175 ft.	150 ft.	110 ft.	Yard Butler	**16X130**
12 Ga.	—	200 ft.	150 ft.	125 ft.	Liberty	**36RM46**
Stainless Steel, Wall-Mount						
Rustproof	8 11/16"	200 ft.	175 ft.	150 ft.	Westward	**48PG05**
Rustproof	6 17/32"	150 ft.	125 ft.	100 ft.	Westward	**48PG06**


No. 2WA47
(Hose Sold Separately)


No. 24AD43


No. 2LRK9


No. 5XAV4

Hose Reels

Wall-Mount—Molded hose guide allows for 180° arc movement from the wall mounting. No. 2WA47 includes a 4-ft. leader hose with brass coupling. No. 24AD42 hose position lock system locks hose every 5-ft.; Nos. 24AD43 and 24AD44 hose position lock system allows hose to lock at any length. Reels include 6½-ft. leader hose. No. 36XR16 rotates a full 360° and can be locked into any of 24 positions.

Tri-Mount—Mount to wall, floor, or ground. Includes 5-ft. leader hose.

Freestanding—Reels feature heavy-duty bracing to prevent sagging and a turret system that rotates 360° and easily locks into position.

Description	Color	Reel Dim. Dia.	W	Hose Cap. I.D. ½"	⅝"	¾"	Brand	Item No.
Wall-Mount								
Side-Winder	Brown/Tan	18"	19"	125 ft.	100 ft.	75 ft.	Ames	**2WA47**
Hose Assembly with Automatic Rewind	Green	14½"	5⅜"	65 ft.	50 ft.	—	Westward	**24AD42**
	Green	15⅜"	6¾"	100 ft.	65 ft.	—	Westward	**24AD44**
	Green	15⅜"	6¾"	100 ft.	65 ft.	—	Westward	**24AD43**
Steel	Green	16½"	8 1/16"	50 ft.	—	—	Speedaire	**437J30**
Rotating Carriage	Red	14¾"	8"	175 ft.	150 ft.	75 ft.	Liberty	**36XR16**
Heavy Duty Bracing and 180° Swivel	Gray	18"	12"	125 ft.	100 ft.	75 ft.	Yard Butler	**45TR68**
Storage Tray for Holding Watering Accessories	Taupe	15"	15"	200 ft.	200 ft.	150 ft.	Suncast	**45CH37**
Tri-Mount								
Steel	Tan	15½"	9"	225 ft.	200 ft.	125 ft.	Liberty	**2LRK9**
Freestanding								
Post Mount with 360° Rotating Steel Reel	Gray	18"	8"	225 ft.	200 ft.	150 ft.	Yard Butler	**5XAV4**
Patio Base with 360° Rotating Steel Reel	Gray	16"	8"	225 ft.	200 ft.	150 ft.	Yard Butler	**14R845**


No. 4TMJ8


No. 39E756


No. 14R846


No. 2LRL2


No. 39E758

Hose Carts

Sturdy carts are designed to allow the hose to track neatly onto the reel.

Poly—Rustproof resin or poly construction with a watertight connection between the hose and the reel.

Steel—Durable, rust-resistant finish plus pneumatic tires to ease transport over uneven terrain.

Includes	Color	Cart H	Reel Dim. Dia.	W	No. of Wheels	Wheel Dia.	Wheel Type	Hose Cap. I.D. ½"	⅝"	¾"	Brand	Item No.
Poly												
Hose Guide with 4-ft. Leader Hose and Accessory Caddy	Taupe	32½"	15"	8¼"	2	7"	Plastic	215 ft.	175 ft.	120 ft.	Suncast	**4TMJ8**
Upper Accessory Caddy and Never-Leak® Water System	Brown/Tan	37"	16¼"	11¼"	2	7"	Poly	275 ft.	225 ft.	155 ft.	Ames	**39E756**
Steel												
5-ft. Leader Hose, Front Turn Handle, ⅝" NPT Connection	Gray	27½"	18"	15"	4	8"	(2) Pneumatic, (2) Solid	440 ft.	400 ft.	300 ft.	Yard Butler	**14R846**
5-ft. Leader Hose	Tan	32"	16½"	14½"	4	10"	Pneumatic	325 ft.	300 ft.	200 ft.	Liberty	**2LRL2** *
5-ft. Leader Hose	Green/Silver	32"	17"	14"	4	10"	Pneumatic	375 ft.	350 ft.	275 ft.	Liberty	**2LRK8** *
5-ft. Leader Hose, ⅝" NPT Connection	Brass	32"	17"	15½"	2	14"	Pneumatic	325 ft.	300 ft.	200 ft.	Liberty	**2PAZ3** *
270° Swivel Design with 5-ft. Leader Hose	Blue	42½"	10"	14½"	2	20"	Pneumatic	440 ft.	400 ft.	300 ft.	Jackson	**39E758**
5-ft. Leader Hose, ⅝" NPT Connection	Silver	32"	18"	8"	2	9"	Pneumatic	225 ft.	200 ft.	150 ft.	Yard Butler	**49XK98**
No. 2LRK8 Reel Cart with 100 ft. Garden Hose (No. 491G54) and Watering Wand (No. 1HLV2)	Green/Silver	32"	17"	14"	4	10"	Pneumatic	375 ft.	350 ft.	275 ft.	Jackson	**7A0A0**

NPT = National Pipe Thread.


No. 4TMJ7


No. 39E757


No. 36G338

Hose Cabinets

Hand Lever—Cabinet design helps conceal the hose and reel. Watertight connection.

Hydro-Powered Automatic Rewind—Water-powered automatic reels. Rewind hands-free with the flip of a lever. Each includes a hose guide for easy winding, 10-ft. leader drain hose, and 2 garden stakes. Floor mountable.

Description	Color	Cart H	Reel Dim. Dia.	W	Hose Cap. I.D. ½"	⅝"	¾"	Brand	Item No.
Hand Lever									
Slatted Design Stationary Cabinet	Taupe	16¼"	11"	10"	125 ft.	100 ft.	70 ft.	Suncast	**4TMJ7**
Contemporary Design Stationary Cabinet	Brown/Tan	25¼"	14¾"	9¾"	215 ft.	175 ft.	120 ft.	Ames	**39E757**
Slatted Design Stationary Cabinet	Taupe	27½"	15"	12"	275 ft.	225 ft.	155 ft.	Suncast	**4TMJ6**
Hydro-Powered Automatic Rewind									
Basket Weave Design Stationary Cabinet	Brown	20¾"	16¾"	7"	165 ft.	125 ft.	50 ft.	Suncast	**36G338**
Wood Grain Design Stationary Cabinet	Taupe	19¾"	17"	7"	155 ft.	125 ft.	90 ft.	Suncast	**4TMJ4**

Mouse Traps

GRAINGER APPROVED

MULTIPLE-CATCH MOUSE TRAPS

Triangle Corner—Easy-to-set galvanized steel traps are designed to save floor space and capture live mice. Clear lid on No. 32J095 makes it easy to check contents.

Speedy Clean® Little Pete®—Ramp unit comes out quickly and easily for cleaning, or to use trap for insects. Pop-down tabs raise unit in damp areas. Clear lid allows quick visual inspection.

Repeating—Catches multiple mice with 1 setting; mechanism sweeps mice into holding chamber. No poisons or bait needed. Safe to use around children, pets, and in FDA/USDA-inspected plants.

Pro-Ketch® Low-Profile and Ketch-All®—Galvanized steel traps use no chemicals, baits, or poisons; approved for use in USDA/FDA-inspected facilities. Low-profile No. 1VJR6 is designed for confined spaces.

SPRING-LOADED MOUSE TRAPS

Jawz™—Plastic-based trap with bait well. Easy to set; reusable.

Little Bigfoot®—Wood-based trap with heavy-duty spring and expanded adjustable trigger for greater sensitivity.

Plastic Snap-E®—A preformed bait cup aids in baiting, reduces bait stealing, and attracts mice to the ideal strike bar location.

Heavy-Duty—Reusable trap squeezes to set. Includes bait cup. For disposal, squeeze again to open.

GLUE MOUSE TRAPS

Stick-All®—Prebaited to attract mice and insects without poisons or dangerous chemicals. Keeps them out of sight.

Cold Temperature—Nontoxic glue is formulated to be effective in temps. as low as 0°F. Excellent for use in unheated garages, basements, and in commercial walk-in refrigerators.

Baited—No. 5DKE9 is prescored to fold for trapping and disposal. No. 5YAY1 nontoxic glue trays are prebaited with food-grade attractant. No. 11L633 adhesive traps also serve to monitor for insects.

Baited Mouse and Insect Boards—Nontoxic traps will not harden for 1 yr. under normal conditions. Perforated to tear off and place glue directly against baseboards to secure traps. Fold into tunnel shape for use in tight or dusty areas.

Pro Series Slim™ Multi-Catch —Narrow design can be placed in hard-to-reach areas where rodents travel. Use alone as a live trap, or add glue board No. 20YR50 (sold separately) to trap multiple mice.

Bulk Glue—Nontoxic glue is approved for use where pesticide use is prohibited or undesirable. Spreads easily in lower temperatures.


No. 32J094


No. 18F563


No. 32J089


No. 6VFA1


No. 1VJR9


No. 20K865

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Multiple-Catch Mouse Traps				
Triangle Corner, Solid Lid	7¾" x 7¾"	GA	**32J094**	1
Triangle Corner, Clear Lid	7¾" x 7¾"	GA	**32J095**	1
Speedy Clean® Little Pete®	10⅜" x 3½"	JT Eaton	**18F563**	1
Repeating, Solid Lid	10½" x 6½"	GA	**32J089**	1
Repeating, Clear Lid	10½" x 6½"	GA	**32J090**	1
Clear Lid	9¼" x 7½"	Kness Pest Defense	**3KJE7**	1
Pro-Ketch® Low-Profile, Clear Lid	10⅛" x 6¼"	Kness Pest Defense	**1VJR6**	1
Ketch-All®	9¼" x 7½"	Kness Pest Defense	**1VJR5**	1
Spring-Loaded Mouse Traps				
Jawz™	7" x 5¼"	JT Eaton	**6VEZ6**	2
Little Bigfoot®	4" x 2"	JT Eaton	**6VFA1**	4
Plastic Snap-E®	4" x 1⅛"	Kness Pest Defense	**1VJR9**	1
Heavy-Duty	2½" x 5"	Tomcat	**20K865**	2
Glue Mouse Traps				
Stick-All® Board Trap	7⅝" x 5"	Kness Pest Defense	**6VFA2**	1
Stick-All® Board Inserts	7⅜" x 5"	Kness Pest Defense	**1VJT2**	4
Stick-All® Trap, Includes (1) Board Insert	9¼" x 7⅜"	Kness Pest Defense	**1VJT1**	1
Cold Temperature	10⁷⁄₃₂" x 5⁷⁄₃₂"	Catchmaster	**3LMN8**	2
Baited	¾6" x 7½"	Catchmaster	**5DKE9**	1
	5¼" x 6"	Catchmaster	**5YAY1**	4
Pro-Ketch® Baited	10⅛" x 4⅛"	Kness Pest Defense	**11L633**	10
Baited Mouse and Insect Boards	8½" x 5¼"	Catchmaster	**5YAY6**	2
	8½" x 5¼"	Catchmaster	**5YAY5**	4
Pro Series Slim™ Multi-Catch	16" x 2¼"	Catchmaster	**20YR49**	1
Slim™ Multi-Catch Replacement Glue Boards	4" x 1⁄64"	Catchmaster	**20YR50**	10
Bulk Glue, 1 gal.	6½" x 6½"	Catchmaster	**3KJF8**	1


No. 5DKE9


No. 11L633


No. 20YR49

Rat Traps

SPRING-LOADED RAT TRAPS

Plastic Big Snap-E®—A preformed bait cup aids in baiting, reduces bait stealing, and attracts rats to the ideal strike bar location.

Note: Can be used for both rats and mice.

Bigfoot®—Heavy-duty spring and expanded adjustable trigger setting provide greater sensitivity.

Jawz™—Heavy-duty plastic with strong spring for quick kills. Reusable. Set by hand or foot. Quick-release button. Includes bait holder.


No. 3LMP2


No. 6VEZ7


No. 21A744


No. 16W258


No. 3LMN7

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Spring-Loaded Rat Traps				
Plastic Big Snap-E®	5½" x 3"	Kness Pest Defense	**3LMP2**	1
Bigfoot®	9½" x 4⅜"	JT Eaton	**6VEZ7**	1
Jawz™ Rat and Chipmunk Snap Trap	8½" x 5⅞"	JT Eaton	**21A744**	1
Rat Snap Trap	8¾" x 3¾"	Tomcat	**16W258**	1

Rat Snap Trap—Interlocking teeth snap making escape almost impossible. Reusable. Easy-to-use and set with no-touch disposal.

GLUE RAT TRAPS

Rat Glue Boards—Suitable for use on mice and other rodents. Indoor use.

Baited Glue Trap—Nontoxic formula. Included Hercules Putty™ helps prevent dragging.

Glue Board—Ready-to-use board is nontoxic, economical, and traps both mice and rats.

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Glue Rat Traps				
Rat Glue Boards	6½" x 5"	Kness Pest Defense	**6VFA3**	2
Baited Glue Trap	10¼" x 5¼"	Catchmaster	**3LMN7**	2
Glue Board	9¾" x 4¾"	Tomcat	**3LMN9**	2





No. 16W257

No. 8CVE7



No. 32J093



No. 16W255



No. 5PTT6



No. 32J091



No. 45DV76



No. 35HV19



No. 5PTV2



No. 35HX45

Mouse and Rat Bait Stations and Rodenticides

Bait Stations—Stations provide a place where rodents feel secure while feeding on poisonous bait. Tamper-resistant designs keep bait out of reach of livestock, children, pets, and nontarget animals. Stations do not require the cleanup of traps and can help monitor rodent activity.

Rodenticides—Pellets are for burrow baiting, while bait packs help protect bait and fit in tight spaces. Block baits are for all-weather use and resist mold and moisture. Brodifacoum formula is for single-feed use. Bromadiolone is a single-feed bait for everyday control of recurring rodent problems. Bromethalin acts quickly and is highly palatable to rodents. Diphacinone formula is an economical bait for day-to-day control of recurring rodent problems.

Description	Container Size L x W x H	Brand	Item No.	Pkg. Qty.
Bait Stations				
Mouse, Contains Bromethalin				
Disposable, Includes 1-oz. Bait Block	6" x 2⅝" x 3¾"	Tomcat	**16W257**	1
Refillable, Includes (16) 1-oz. Bait Blocks	6" x 2⅝" x 3¾"	Tomcat	**12F883**	1
Rat, Contains Bromethalin				
Rodent Station, Includes 15 Bait Blocks	3⅜" x 6¼" x 9¾"	Tomcat	**45GP71**	1
Mouse (Bait Sold Separately)				
Triangle Corner Design, Low-Profile, Tamper-Resistant with Plastic Key	5" x 4" x 1¼"	Tomcat	**8CZD0**	1
Mouse and Rat (Bait Sold Separately)				
Tamper-Resistant with Metal Key	9½" x 8½" x 4½"	Tomcat	**8EZD9**	1
Top Loader™ T-Shape Tamper-Resistant with Gravity Feed Bait Rod	15¼" x 4½" x 12"	JT Eaton	**5PTT5**	1
Low-Profile, Tamper-Resistant	9½" x 8½" x 2½"	Tomcat	**8CVE7**	1
Low-Profile, Tamper-Resistant with Metal Key	8½" x 10" x 3¼"	GA	**32J093**	1
Rodenticides				
Contains Brodifacoum				
0.70-oz. Chunks	9-lb. Pail	Jaguar	**9W388**	1
0.70-oz. Chunks	18-lb. Pail	Jaguar	**9GZA6**	1
Contains Bromadiolone				
1-oz. Chunks	9-lb. Pail	Hawk	**8CXK5**	1
Contains Bromethalin				
(64) 1-oz. Chunks	4-lb. Pail	Tomcat	**16W255**	1
(121) 15g Blocks	4-lb. Pail	Rampage	**12M838**	1
(22) 3-oz. Pellet Packs	4-lb. Pail	Tomcat	**44C823**	1
(128) ½-oz. Pellet Packs	4-lb. Resealable Pail	JT Eaton	**5PTT6**	1
Mole Bait, Earthworm Shape		Motomco	**8TRP7**	12
Meat Bait	5-lb. Pail	Tomcat	**45GP70**	1
Contains Diphacinone				
(22) 3-oz. Pellet Packs	4.1-lb. Pail	Tomcat	**16W256**	1
(64) 1 oz. Blocks with Peanut Butter Flavorizer	4-lb. Pail	JT Eaton	**22CT53**	1
(144) 1 oz. Blocks with Peanut Butter Flavorizer	9-lb. Resealable Pail	JT Eaton	**5PTT7**	1
Gopher Bait, Includes (40) 4-oz. Blocks	10-lb. Resealable Pail	JT Eaton	**5PTP8**	1 *

**** Only for sale to states west of the Mississippi River and Tennessee.***

Animal Traps and Repellents

Mole Traps—Trap moles at the entrances and exits of surface tunnels.

Animal Traps—Easy to bait, set, and release. Smooth inside edges do not harm animals. Effective for a wide variety of animals.

Repellex®—Repellents are made from plant-based materials and have no harmful chemicals or pesticides. Not for use on food crops. Innovative emulsifying agents allow formula to absorb quickly into the soil and form a protective coating around plant roots and other underground food sources.

Transonic Mole—Nontoxic solution to most outdoor rodent problems. Stake into ground, where solar-powered unit flashes, buzzes, and vibrates, to disorient and repel moles and gophers.

Rat-Out Gel—Nontoxic gel repels rats, mice, squirrels, gophers, and other mammals. The garlic smell deters rodents before they even touch it, but if they do come into contact with the gel, its tacky quality turns them away.

Description	Overall L	Brand	Item No.
Mole Traps			
Plunger-Style	15½"	GA	**32J091**
Spring-Loaded	—	Motomco	**5MGY8**
Animal Traps—Steel Cage with Gravity Action Door			
Small Rodents	16"	JT Eaton	**29FX41**
Cats, Rabbits, Squirrels	24"	JT Eaton	**29FX42**
Small Birds	17¼"	Kness Pest Defense	**3KJH7**
Raccoons	36"	Kness Pest Defense	**45DV76**
Pigeons	36¼"	Kness Pest Defense	**3KJH9**
Foxes, Coyotes, Armadillos	42"	JT Eaton	**29FX40**
Animal Trap—Polyethylene Cage with Spring-Loaded Door			
Skunks	8"	JT Eaton	**35HV19**
Repellents			
Repellex, 32-oz. Ready-to-Spray, Covers 8,000 sq. ft.	—	Repellex	**9XXG0**
Repellex, 1 gal. Concentrate, Covers 32,000 sq. ft.	—	Repellex	**9XXG1**
Repellex, 7-lb. Pail, Granular, Covers 7,000 sq. ft.	—	Repellex	**9XV02**
Repellex, 24-lb. Pail, Granular, Covers 24,000 sq. ft.	—	Repellex	**9XX36**
Transonic Mole Stake Repellent, Covers 7,800 sq. ft.	—	Bird-X	**5PTV2**
Rat-Out Gel, Pack of (3) 1-oz. Tubes	—	Bird Barrier	**35HX45**


No. 6KHD9


No. 5PTU7


No. 1DGX2

Wildlife Repellents

Systemic Repellents—Deliver hot pepper concentrate through the plant roots making plants inedible to animals. Maintain potency while evenly distributed throughout the plant. One treatment can last the entire growing season. Not for use on food crops.

Granular Repellents—Organic, all-natural formula is safe to use around children, pets, and food crops. Granules will not wash away in the rain, evaporate, or freeze. Easy to apply by shaking on the ground.

Electronic Repellents—Use No. 6WB54 indoors. Sonic and ultrasonic sounds repel insects, rodents, bats, and spiders. Used outdoors, No. 1DGX2 is a humane, maintenance-free ultrasonic yard protector for deer, raccoons, rabbits, squirrels, skunk, rodents, and more. Continuous or motion-sensor operation.

Description	Brand	Item No.
Systemic Repellents		
50 Tablets	Repellex	6KHD9
150 Tablets	Repellex	6KHE0
300 Tablets	Repellex	6KHE1
500 Tablets	Repellex	6KHE2
Granular Repellents		
Mouse and Rat, 22 oz.	Weiser's Nature'S Defense	6TUK7
All-Purpose, 22 oz.	Weiser's Nature'S Defense	5PTU7
All-Purpose, 5 gal.	Weiser's Nature'S Defense	5PTU8
Electronic Repellents		
Indoor, 115VAC	Bird-X	6WB54
Outdoor, 115VAC	Bird-X	1DGX2


No. 9NT24


No. 5PTV1

Deer Fencing and Repellents

Deer Fencing—Environmentally safe polypropylene netting. UV treated for long-lasting durability. Attaches to metal or wooden stakes.

Vegetation Protection Repellent—Cinnamon oil-based repellent can be applied to all vegetation to repel deer and other chewing animals.

Electronic Repellent—Built-in infrared motion sensor. Continuous or motion-detection operation. Features adjustable frequency and snap-on rain cover.

Description	Brand	Item No.
Deer Fencing Kit—Includes Poles, Staples, and Ties		
5⁄8" x 3⁄4" Mesh, 7 x 100-ft.	Tenax	35HV20
Deer Fencing		
3⁄4" Square Mesh, 7 x 100-ft.	Tenax	9TAL7
3⁄4" Square Mesh, 7 x 100-ft.	Dewitt	444N77
3⁄4" Square Mesh, 7 x 350-ft.	Dewitt	5TXG5
2" Square Mesh, 7 1⁄2 x 100-ft.	Tenax	9NT24
2" Square Mesh, 7 1⁄2 x 330-ft.	Tenax	8W125
2" Square Mesh, 10 x 330-ft.	Tenax	8VZW5
2" Square Mesh, 15 x 330-ft.	Tenax	9T036
Vegetation Protection Repellent		
1-gal. Ready-to-Use Liquid	Repellex	9TY05
Electronic Repellent		
Ultrasonic, 110VAC	Bird-X	5PTV1


No. 49XX29

Bird Slides

Birds slide off surfaces because they can't get a grip. Use on ledges, eaves, angle irons, I-beams, and most "L" shaped ledges to protect against all bird species. Can be primed and painted to match color of structure to look like it's a part of the building. Trim for fit.

Overall L	Overall W	Overall H	Beige Item No.	Gray Item No.
5 ft.	1 1⁄2"	1 1⁄2"	—	49XX44
5 ft.	1 1⁄2"	6"	49XX34	49XX42
5 ft.	1 1⁄2"	12"	49XX36	—
5 ft.	6"	8 1⁄2"	49XX30	49XX38
5 ft.	11"	14 1⁄2"	49XX32	49XX40
5 ft.	15 ft.	6"	49XX35	49XX43
5 ft.	15 ft.	8 1⁄2"	49XX31	49XX39
5 ft.	50 ft.	6"	49XX33	49XX41
5 ft.	50 ft.	8 1⁄2"	49XX29	49XX37


No. 3NZD1


No. 8DCF8


No. 20YR37

Visual Bird Repellers

2D AND 3D DECOYS
Stake decoys into the ground to repel geese. 3D bodies swivel on stake and furry tail moves in the wind.

TERROR-EYES
Inflatable, moving bird predator uses holographic, moving eye lenses that follow infesting birds.

SCARE EYES
Inflatable repellent simulates glaring eyes of predator birds. Rotate colors within 3 weeks for max. effectiveness.

SCREECH OWL
No. 20YR37 features 4 predator/scare sounds, which are photocell-activated during daylight hours.

GATOR GUARD
Floating alligator head repels geese and small animals from water areas.

IRRI-TAPE
Iridescent diffraction foil ribbon combines holography, wind, and light to create a ripple effect that pest birds perceive as a danger signal.

FLOATING SWAN
Repels Canada geese. Effective on water or land; 2 steel anchoring stakes included. For best results, relocate the decoy periodically.

FALCON DECOY
Covers up to 6,000 sq. ft. Scares small pests and birds such as pigeons and gulls. Place on flat surface. Bottom has a plug that can be removed to fill with sand to weigh down base.

OPTICAL GEL™
Keeps birds off of structures without harming them. Supplied in ready-to-use plastic dish container which can be affixed to surfaces with commercially available dab of silicone. Birds see ultraviolet light spectrum as fire and avoid site. Gel has firm density that won't rut. Resistant to high and low temperatures, rain, and snow.

Description	Dim.	Brand	Item No.
2D Decoy, Coyote	24"L x 1"W x 20"H	Bird-X	8ENF6
3D Decoy, Coyote	36"L x 8"W x 16"H	Bird-X	3NZD1
3D Decoy, Fox	30"L x 6.5"W x 18.5"H	Bird-X	12V871
Terror-Eyes	24" dia.	Bird-X	1DGW8
Scare Eyes, Yellow	18" dia.	Bird-X	8DCF8
Scare Eyes, White	18" dia.	Bird-X	8DCF9
Scare Eyes, Black	18" dia.	Bird-X	8Y281
Screech Owl without Sound	22"H	Bird Barrier	20YR38
Screech Owl with Sound	22"H	Bird Barrier	20YR37
Gator Guard	24"L x 11"W x 7"H	Bird-X	1DGX1
Irri-Tape	100 ft.L x 2"W	Bird-X	1DGX3
Irri-Tape	500 ft.L x 4"W	Bird-X	9VZE0
Floating Swan	36"L x 18"W x 11"H	Flambeau	9ATJ0
Falcon Decoy, Multicolor	7"L x 7"W x 16"H	Bird-X	45LW37
Optical Gel	—	Bird Barrier	53PZ98

Bird Exclusion Netting

Composed of thin, ultra-strong, knotted strands of polyethylene twine, this exclusion system denies pest birds access to any architectural configuration, including roof tops, overhangs, parking garages, etc.

		NET MESH SIZE			
		3⁄4"		2"	
Coverage	Overall W	Overall L	Item No.	Overall L	Item No.
625 sq.ft.	25 ft.	—	—	25 ft.	49XX51
1250 sq.ft.	25 ft.	—	—	50 ft.	49XX52
1875 sq.ft.	25 ft.	75 ft.	49XX45	75 ft.	49XX53
2500 sq.ft.	50 ft.	50 ft.	49XX46	50 ft.	49XX54
3750 sq.ft.	50 ft.	75 ft.	49XX47	75 ft.	49XX55
5000 sq.ft.	50 ft.	100 ft.	49XX48	100 ft.	49XX56
10,000 sq.ft.	100 ft.	100 ft.	49XX49	100 ft.	49XX57
20,000 sq.ft.	100 ft.	200 ft.	49XX50	200 ft.	49XX58


No. 49XX46



BIRD-X

Bird Repellent Nets, Spikes, Gel, and Spray

Bird Nets and Clips—Seal off all structural openings to keep out birds and small animals.

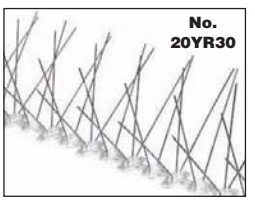
Spikes™ Needle Strips, Kits, and Adhesive—Attach to any surface to permanently prevent birds from landing and roosting. Install with adhesive, sold separately.

Birdproof Gel—Nontoxic formula deters all birds and helps prevent landing and roosting by creating a sticky surface. Apply with a caulking gun, indoors or out. Solvent removal. EPA Registered.

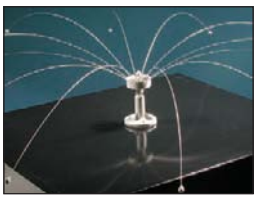
Repellent Spray—Goose repellant can be sprayed with agricultural or hand sprayer on turf, fruits, vegetables, fountains (without fish), pools, and building structures. Not harmful to plants or animals.

Description	Overall L	Overall W	Coverage	Item No.
Bird Nets and Clips				
Nets	25 ft.	25 ft.	625 sq. ft.	3NZC8
	50 ft.	50 ft.	2500 sq. ft.	3NZC9
	100 ft.	14 ft.	1400 sq. ft.	9CLD7
Clips, Pkg. of 250	9"	6"	—	8N787
Spike™ Needle Strips and Kits				
302 Stainless Steel Spikes, 2-ft. Sections	10 ft.	5"	10 linear ft., 2 ft. Sections	6WB50
	24 ft.	5"	24 linear ft., 2 ft. Sections	6WB51
302 Stainless Steel Spike Kit, 2-ft. Sections	50 ft.	4½"	50 linear ft., 2 ft. Sections	9LAV4
	100 ft.	5"	100 linear ft., 2 ft. Sections	5PTU4
Polycarbonate Spikes, 1-ft. Sections	10 ft.	5"	10 linear ft., 1 ft. Sections	6WB57
	25 ft.	5"	25 linear ft., 1 ft. Sections	6WB58
Polycarbonate Spike Kit, 1-ft. Sections	50 ft.	6½"	50 linear ft., 1 ft. Sections	9Y575
	100 ft.	5"	100 linear ft., 1 ft. Sections	9EZF7
Spike Adhesive				
Cartridge Tube			20 ft.	6CJN8
Birdproof Gel				
Cartridge Tube, 10.5 oz., Pkg. of 12			120 linear ft.	6WB53
Repellent Spray				
Biodegradable Food-Grade Concentrate, 1 gal.			1500 sq. ft. to 1 Acre	6MRH8









Bird Deterrents

Products are designed to avoid injury to humans, birds, or animals.

StealthNet®—Ultrastrong, UV-resistant polyethylene netting provides an impenetrable barrier against sparrows, swallows, and other small birds. Black color. Custom sizes are available; call 1-800-GRAINGER (472-4643).

Bird-Flite®—Thin stainless steel rods on a polycarbonate base repel pigeons and larger birds from signs, chimneys, security cameras, cut-outs, lights, pipes, and ledges. Glue or screw in place.

Dura-Spike®—Blunt stainless steel spikes discourage pigeons and larger birds from landing and nesting. Flexible construction conforms to building features, such as ledges, parapets, pipes, chimneys, lights, etc. Cut to length and glue or screw in place.

Bird Coil®—Expanding coils destabilize surfaces and discourage birds from landing. Kits include clips, end brackets, and other hardware or adhesive to attach to your specific substrate.

Daddi Long Legs®—Device's stainless steel rods rotate and wave in the breeze, interfering with birds' wings as they try to land. Effective against gulls, pigeons, and larger birds. Plastic base screws into most surfaces.

Bird Barrier

Installation/ Description	Overall L	Overall W	Item No.
StealthNet ®			
¾" Mesh	25 ft.	25 ft.	20YR36
	50 ft.	25 ft.	20YR35
StealthNet ® Economy Netting			
¾" Mesh	100 ft.	14 ft.	20YR34
Bird-Flite ®			
Narrow Ledge 1" to 4"	10 ft.	2½"	20YR30
	25 ft.	2½"	20YR31
	50 ft.	2½"	20YR29
	100 ft.	2½"	20YR28
Wide Ledge 4" to 7"	10 ft.	5"	35HX37
	25 ft.	5"	35HX38
	50 ft.	5"	35HX36
	100 ft.	5"	35HX35
Extra-Wide Ledge 7" to 10"	50 ft.	8"	20YR33
	100 ft.	8"	20YR32
Dura-Spike™			
Narrow Ledge 1" to 4"	51 ft.	2½"	35HX39
	102 ft.	2½"	35HX40
Wide Ledge 4" to 7"	51 ft.	5"	35HX41
	102 ft.	5"	35HX42
Extra-Wide Ledge 7" to 10"	51 ft.	8"	35HX43
	102 ft.	8"	35HX44
Bird-Coil ®			
Coil Clip Kit for Sheet Metal Surfaces	25 ft.	4"	20YR41
Coil Clip Kit for Concrete/ Masonry Surfaces	25 ft.	4"	20YR39
Coil Clip Kit with Adhesive Glue (No Drilling)	25 ft.	4"	20YR40
Coil Clip Kit for Wood Surfaces	25 ft.	4"	20YR42
Daddi Long Legs™			
Plastic Base Surface Mount	4 ft.	—	20YR25
	6 ft.	—	20YR26
	8 ft.	—	20YR27
Spike Adhesive			
Cartridge Tube, 0.63 lb. Gray	—	—	45KA06



BIRD-X

Silent and Audible Bird Repellers

ULTRASONIC BIRD REPELLERS

Balcony Guard—Keeps birds away with continuous or motion-sensor operation. Weatherproof. 120V power or 4 C batteries (not included). Includes mounting kit.

Ultrason X—Ultrasonic sounds get rid of birds, bats, rodents, and more. Weatherproof. For indoor or outdoor use.

Quad Blaster—Ultrasonic sound waves attack birds and bats in any enclosed or semi-enclosed areas. For indoor use only. No. 3NZD2 includes red strobe light that acts as visual deterrent.

SONIC BIRD REPELLERS

Broadband PRO—Controls bird pests with ultrasonic and sonic signals. Has a series of species-specific distress cries and predators' noise. Includes 3 visual predators: Scare Eyes, Prowler Owl, and Irri-Tape. For indoor or outdoor use.

BirdXPeller® Pro and Pro 2—Bird distress sounds and predator noises are effective against targeted species. No. 6WB52 repels pigeons, starlings, sparrows, and gulls. No. 8DML0 repels grackles, blackbirds, crows, cormorants, and ravens.

Super BirdXPeller® Pro and Pro 2—Use birds' own distress calls to scare them away. Include control unit, 4 speakers, and 100-ft. of speaker wire. For outdoor use. No. 1DGW7 is effective against pigeons, starlings, sparrows, and gulls. No. 5PTU5 is effective against grackles, blackbirds, crows, cormorants, and ravens.

Electronic GooseBuster PRO Single Speaker System—Sonic goose repellent system developed through decades of research uses authentic goose alert and alarm calls recorded in the wild. Audio makes areas uninhabitable for geese. Behavior modification teaches them not to return.

Description	Coverage	Item No.
Ultrasonic Bird Repellers		
Balcony Guard	900 sq. ft.	34Z719
Ultrason X	3600 sq. ft.	1DGW6
Quad Blaster	6500 sq. ft.	1DGW4
Quad Blaster with Strobe	6500 sq. ft.	3NZD2
Sonic Bird Repellers		
Broadband PRO		1DGW3
BirdXPeller® Pro	Up to 1 acre	6WB52
BirdXPeller® Pro 2	Up to 1 acre	8DML0
Super BirdXPeller Pro	Up to 6 acres	1DGW7
Super BirdXPeller Pro 2	Up to 6 acres	5PTU5
Electronic GooseBuster PRO Single Speaker System	Up to 1.5 acres	45LW36
Remote Extension Speaker		
For Use with Nos. 1DGW3, 1DGW4, 1DGW7, 3NZD2, 5PTU5, 6WB52, 8DML0	Up to 1 acre	6WB56


No. 24K340



No. 2W547


No. 1ABE2


No. 1ABE3



No. 1ABE1



No. 3ZF09


No. 5FZT5


No. 2W579

CATCHMASTER FLOWTRON®

Insect Killers and Accessories

Safe and effective units attract flies and other light-sensitive flying insect pests with multiple attractants, including ultraviolet light and pheromone-based lure.

Adhesive Board—Safe, silent traps draw pests to a strategically placed large-capacity adhesive board, where they get stuck and remain trapped. Once full, boards are easy to dispose of and replace. No. 24K340 GLOstik™ Flying Insect Trap features a reflective cap with high-efficiency LED light to attract and trap insects to the disposable glue tube. Portable, reusable, battery-operated base with LED lasts up to 10,000 hr. Uses (3)AAA batteries not included. No. 24K338 SilenTrap™ Electric Flying Insect Trap is a freestanding electronic unit with a 13W UV bulb to attract insects into the front housing's glue board. NightGuard No. 1ABE2 is a portable, free-standing unit. Galaxie Nos. 1ABE3–1ABE6 use a combination of ultraviolet energy and Flowtron's exclusive fly attracting pheromone. Ideally suited for installation in front-of-store locations. Elite Stun Unit No. 1ABE1 special stun effect ensures out of sight capture.

Zapper Lantern Style—Once drawn to the unit, insects fly through an electrostatically charged grid where they are killed instantly. Nos. 2W546 and 3ZF09 have removable collection chambers.

PowerVac Vacuum—Once flying pests are attracted close enough to the unit, the powerful vacuum draws them in to a removable, see-through tray for easy disposal. Weatherproof, lightweight, portable unit can be used in just about any outdoor location.

Flowtron Backflight Retrofit Kit—No. 4LV47 includes bracket with prewired socket, bulb, 2 screws, and foam pad with adhesive back.

Description	Coverage (sq. ft.)	Total Lamp Watts	Includes	H	W	D	Brand	Mfr. Model	Item No.
Indoor/Outdoor Use									
Adhesive Board									
Freestanding, Hook Mount, Battery-Powered	—	—	(2) Glue Traps/(1) LED Light Base	10"	3"	—	Catchmaster	908	**24K340**
Freestanding, Wall Mount, Electric	—	—	13-Watt Bulb and (2) Glue Board Traps	12"	8½"	—	Catchmaster	906	**24K338**
Zapper Lantern Style									
Wall or Hook Mount	2000	120	Fly Sex Pheromone	28½"	12⅜"	12⅜"	Flowtron	FC8800C	**2W547**
Indoor Use									
Adhesive Board									
Freestanding, Floor Mount	500	30	Fly Sex Pheromone	11"	18½"	3⅞"	Flowtron	FC4900	**1ABE2**
Wall Mount Sconce Style, Cream Cover	600	40	Fly Sex Pheromone	14¾"	16"	5½"	Flowtron	FC4400	**1ABE3**
	1200	80	Fly Sex Pheromone	14¾"	16"	5½"	Flowtron	FC4800	**1ABE5**
Wall Mount Sconce Style, Stainless Steel Cover	600	40	Fly Sex Pheromone	14¾"	16"	5½"	Flowtron	FC4410	**1ABE4**
	1200	80	Fly Sex Pheromone	14¾"	16"	5½"	Flowtron	FC4810	**1ABE6**
Wall or Hook Mount	1200	80	Fly Sex Pheromone	18"	15"	5"	Flowtron	FC4700	**1ABE1**
Zapper Lantern Style									
Wall Mount	1200	80	Fly Sex Pheromone	18""	15¼""	5¼""	Flowtron	FC7600	**2W546**
	2000	120	Fly Sex Pheromone	25¾"	15"	5"	Flowtron	FC7800B	**3ZF09**
Outdoor Use									
Vacuum									
Freestanding, Floor Mount	43,560	14	Octenol	33"	14"	17"	Flowtron	PV440B	**5FZT5**
Zapper Lantern Style									
Hook Mount	43,560	40	—	15¾"	9¾"	9¾"	Flowtron	BK-40-D	**2W545**
	65,340	80	—	17¾"	11"	11"	Flowtron	BK-80-D	**2W579**

Description	For Use with Grainger Item No.	Mfr. Model	Item No.	Pkg. Qty.
Catchmaster Accessories				
Electric Plug-In Insect Trap				
Glue Board Trap Refill	24K338	920	**24K339**	2
Replacement 13W UV Bulb	24K338	906B	**24K342**	1
Flowtron Accessories				
Replacement Adhesive Fly Boards				
4½ x 14"	1ABE1	GB470	**1ABE7**	12
7½ x 15½"	1ABE3, 1ABE4, 1ABE5, 1ABE6	GB440	**1ABE9**	12
12 x 18"	1ABE2	GB490	**1ABE8**	6
Lures and Attractants				
Fly Lure	Any	FA-5000	**4LV49**	1
Mosquito Attractant	—	MA-1000	**4LV51**	1
	—	MA-1000-6	**8FZZ9**	6
Blacklight Replacement Bulbs				
7W, U-Shape	5FZT5	BF-210	**5FZT7**	1
15W, Straight	1ABE2	BF205	**1ABF1**	2
40W, U-Shape	2W545	BF190	**4LV46**	1
	3ZF09, 2W547	BF130	**4LV43**	1
	1ABE1, 1ABE3, 1ABE4, 1ABE5, 1ABE6, 2W546, 2W579	BF150	**4LV44**	1
	—	BF175	**4LV45**	1
Blacklight Retrofit Kit w/4LV44 Bulb				
40W	—	RK 60	**4LV47**	1

WESTWARD FLOWTRON®

Universal Insect Killer Accessories

Description	Brand	Item No.	Pkg. Qty.
Wall-Mount Bracket			
Black Powder Coat Finish	Westward	**32J163**	1
Lures and Attractants			
Fly Lure	Flowtron	**4LV49**	1
Mosquito Attractant	Flowtron	**4LV51**	1
	Flowtron	**8FZZ9**	6

Wall-Mount Bracket—Study, durable steel bracket can hold up to 33 lb.

Lures and Attractants—Fly Lure Strip attaches to the outer screen of an insect killer to provide luring power for 30 days. Mosquito Attractant comes in a slow-release cartridge that makes insect killer 5 times more effective in killing certain mosquitoes and biting insects. Effective for up to 450 hr.


No. 32J163



No. 4LV49



No. 4LV51



No. 36WG52



No. 4HK65



No. 36WG49



No. 40P488



No. 36WG48



No. 1PA24

CRC Cutter OFF! REPEL HARRIS Since 1922 SCRUBS Brand

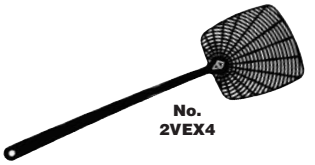
Insect Repellents

Help repel flies, gnats, mosquitoes, ticks, and more. Nos. 20KC01 and 36WG49 can be applied directly to flame-resistant (FR) clothing, shoes, tents, and other gear to provide 2 week protection while preserving its flame protection.

Description	DEET Concentration	Size	Item No.	Pkg. Qty.
Aerosol				
CRC Flame Resistant Clothing Insect Repellent	DEET-Free	6 oz.	**20KC01**	1
Cutter® Backwoods™ Dry Insect Repellent	25.00%	4 oz.	**36WG52**	1
Cutter® Backwoods™ Insect Repellent	25.00%	6 oz.	**36WG47**	1
OFF!® Deep Woods®	25.00%	6 oz.	**4HK65**	1
Repel® Permethrin Clothing and Gear Insect Repellent	DEET-Free	6.5 oz.	**36WG49**	1
Repel® Sportsmen Max Aerosol	40.00%	6.5 oz.	**48WJ99**	1
Liquid Spray				
Repel® 100 Insect Repellent	98.11%	1 fl. oz.	**36WG51**	1
Cutter® Natural Insect Repellent	DEET-Free	6 fl. oz.	**36WG50**	1
Harris® Swamp Gator®	DEET-Free	6 fl. oz.	**40P488**	1
OFF!® Deep Woods® Sportsmen	98.25%	1 fl. oz.	**4HK66**	1
OFF!® FamilyCare Clean Feel	DEET-Free	6 fl. oz.	**2CYD9**	1
Repel® 100 Insect Repellent	40.00%	0.475 fl. oz.	**36WG48**	1
Repel® Sportsmen Max Spray Pump	40.00%	6 fl. oz.	**48WK01**	1
Wipes				
Repel® Insect Repellent, 5"W x 7"L, Pkg. of 15	30.00%	3 oz.	**36WG53**	1
OFF!® Deep Woods®, 6"W x 6"L Individually Wrapped	25.00%	6 oz.	**2CYE1**	144
SCRUBS® INSECT SHIELD™, 8"W x 10"L Individually Wrapped	30.00%	52.8 oz.	**1PA24**	100



No. 8DF85


No. 2VEX4



No. 5YAY4



No. 45WP99


No. 36A149

TOUGH GUY CATCHMASTER BIRD-X

Flyswatters and Insect Traps

Flyswatters—Stiff plastic mesh head measures 5"W x 5"L.

Flying Insect Glue Trap—Adhesive trap has multibait attractant for common flour and grain moths.

Fly Traps—No. 5YAY4 controls nuisance flies and also monitors fly populations to help determine when to treat. No. 5ZPK8 is a nontoxic, odorless and transparent sticky trap that mounts on indoor window panes to trap all types of flying insects. Nos. 8DF85 and 8CNR3 have a multibait attractant designed to lure multiple fly species. No. 8DF85 provides inconspicuous pest control. No. 8CNR3 features a fluorescent chartreuse color and double-sided surface area to trap up to 10,000 flies. No. 45WP99 has a specially formulated lure designed to attract a broad range of flies. Just add water and hang. Features safety lock cap and leakproof design.

Crawling Insect Glue Trap—Ready to use for trapping crickets, roaches, spiders, and other crawling household pests.

Bed Bug Prevention and Detection Monitors—Help identify post-treatment activity. No. 6JHG3 is a cost-effective monitor with low-profile design ideal for tight spaces or behind bed boards. No. 36A149 provides easy visual inspection through the clear shell; for use under mattresses.

Description.	Brand	Item No.
Flyswatters		
Plastic Handle, 17"L	Tough Guy	**2VEX4**
Wire Handle, 23"L	Tough Guy	**2VEX3**
Flying Insect Glue Trap		
5¼"W x 8½"L	Catchmaster	**4XTZ9**
Fly Traps		
Fly Ribbon, 1½"W x 25'L, Pkg. of 4	Catchmaster	**5YAY4**
Window Pane Trap, 3"H x 7"W, Pkg. of 4	Catchmaster	**5ZPK8**
Glue Trap, 2"W x 24"L	Catchmaster	**8DF85**
Glue Trap, 22"H x 11"W	Catchmaster	**8CNR3**
Disposable Fly Bag Trap, Holds 30,000 Flies	Catchmaster	**45WP99**
Crawling Insect Glue Trap		
3½"W x 7"L, Pkg. of 4	Catchmaster	**5YAY3**
Bed Bug Prevention and Detection Monitors		
Cardboard Shell with Patterned Adhesive, Pkg. of 6	Catchmaster	**6JHG3**
Plastic Shell with Gel Adhesive Lure, Pkg. of 12	Bird-X	**36A149**

Insect Fogger and Insecticides

- For outdoor use only

Propane-powered unit dispenses a 10-ft.-wide cone of fogging insecticide for long-lasting control of biting flies and mosquitoes. Uses Insecticides Nos. 6FJE8 and 6FJE9, sold separately. Propane Cylinder No. 5UX34 sold separately on Grainger.com®.

Burgess BLACK FLAG



No. 6FJE6

Description	Brand	Item No.
Propane-Powered Insect Fogger	Burgess	**6FJE6**
Fogging Insecticide, Ready-to-Use, 32 oz.	Black Flag	**6FJE8**
Fogging Insecticide, Ready-to-Use, 64 oz.	Black Flag	**6FJE9**

Ben's DON'T GET BITTEN, GET BEN'S®

Outdoor Head Nets

Lightweight nylon mesh head nets are designed for unimpeded views. They have an elastic crown, securable on your head or favorite hat. No. 53JX20 features fine weave and adjustable underarm straps for maximum coverage. No. 53XJ19 has a drop neckline and a draw cord for adjustability.

Description	Net Pore Size	Item No.
UltraNet	0.5mm	**53JX20**
InvisiNet	1.0mm	**53JX19**



No. 53JX20

Insecticides

Provide fast and long lasting control of flying and crawling insects.

Form	Targeted Insects	Size	Active Ingredients	Brand	Item No.	Pkg. Qty.
Crawling Insects						
Indoor/Outdoor						
Aerosol	Ants	16 oz.	Lambda Cyhalothrin	Hot Shot	36WG41	1
	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	16 oz.	Pyrethrin	Tough Guy	2DCB3	1
	Ants, Bed Bugs, Mites, Roaches	17.5 oz.	Permethrin, Piperonyl Butoxide, Pyrethrin	JT Eaton	22CT52	1
Bait Station, Powder	Ants	0.21 oz.	Fipronil	Combat	1XGT8	72
Liquid, Makes up to 2 gal.	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	1 oz.	Cypermethrin	Enforcer	2HZB1	1
Liquid Spray	Ants, Roaches, Spiders	128 oz.	Gamma Cyhalothrin	Spectracide	36WG42	1
	Bed Bugs, Fleas, Spiders, Ticks	128 oz.	Deltamethrin	JT Eaton	5PTR8	1
	Bed Bugs, Fleas, Ticks	128 oz.	Pyrethrin	JT Eaton	5PTR4	1
	Ants, Bed Bugs, Bees, Beetles, Fleas, Roaches, Spiders, Stink Bugs, Ticks	128 oz.	Deltamethrin	Enforcer	2HZA9	1
Powder	Ants, Roaches, Silverfish	5 lb.	Boric Acid	JT Eaton	5PTT1	1
	Ants, Roaches, Silverfish	16 oz.	Boric Acid	JT Eaton	5PTT0	1
Powder Bait Stations	Ants	0.21 oz.	Fipronil	Combat	1XGT9	72
	Roaches	0.28 oz.	Hydramethylon	Combat	1XGT4	96
	Roaches	0.49 oz.	Hydramethylon	Combat	1XGT5	96
Powder with Puffer	Ants, Bed Bugs, Crickets, Fleas, Roaches, Silverfish	7 oz.	Diatomaceous Earth	JT Eaton	5PTR1	1
Indoor Only						
Aerosol	Bed Bugs, Lice, Mites	14 oz.	N-Octyl Bicycloheptene Dicarboximide, Phenothrin, Resmethrin	Enforcer	6WXE5	1
	Ants	15 oz.	Lambda Cyhalothrin	Spectracide	36WG38	1
	Ants, Roaches	16 oz.	Cypermethrin, Tetramethrin	Enforcer	38GM04	12
	Ants, Roaches	17.5 oz.	Lambda Cyhalothrin	Black Flag	36WG37	1
	Ants, Roaches	17.5 oz.	Cypermethrin, Imiprothrin	Raid	45CR50	1
Fogger	Bed Bugs, Fleas	2 oz.	Piperonyl Butoxide, Pyrethrins	Hot Shot	36WG26	3
Gel	Ants, Roaches	2.5 oz.	Dinotefuran	Hot Shot	36WG32	1
Liquid	Bed Bugs	6 oz.	Plant Oils	Bird Barrier	45KA04	1
	Bed Bugs	6 oz.	Plant Oils	Bird Barrier	45KA05	1
Liquid, Makes up to 2 gal.	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	1 oz.	Cypermethrin	Hot Shot	48LR74	1
Liquid Bait Station	Roaches	0.45 oz.	Dinotefuran	Hot Shot	36WG28	6
Powder	Roaches	1 lb.	Orthoboric Acid	Hot Shot	36WG39	1
	Bed Bugs	8 oz.	Silicon Dioxide	Hot Shot	36WG30	1
	Ants, Bed Bugs, Crickets, Fleas, Roaches, Silverfish	64 oz.	Diatomaceous Earth	JT Eaton	5PTR2	1
Trap	Ants			Hot Shot	36WG40	4
Outdoor Only						
Aerosol	Ants	14 oz.	Phenothrin, Tetramethrin	CRC	14N882	1
Granular	Ants	3.5 lb.	Lambda Cyhalothrin	Spectracide	48LR77	1
	Ants	10 lb.	Lambda Cyhalothrin	Spectracide	48LR80	1
	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	35 lb.	Gamma Cyhalothrin	Spectracide	36WG23	1
Granular, Packet Treats	Ants	4 oz.	Bifenthrin	CRC	14N883	1
Liquid	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	32 oz.	Gamma Cyhalothrin	Spectracide	48LY77	1
	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	128 oz.	Gamma Cyhalothrin	Spectracide	36WG24	1
Flying and Crawling Insects						
Indoor/Outdoor						
Aerosol	Ants, Bed Bugs, Beetles, Crickets, Fleas, Roaches, Silverfish, Spiders	15 oz.	d-Phenothrin, Prallethrin	Raid	45CR52	1
	Ants, Roaches, Spiders	16 oz.	Permethrin, Piperonyl Butoxide, Pyrethrin	Spectracide	48LR76	1
	Ants, Bed Bugs, Beetles, Centipedes, Fleas, Flies, Gnats, Mosquitoes, Moths, Silverfish, Spiders, Wasps	17 oz.	Permethrin, Piperonyl Butoxide, Pyrethrin	Enforcer	53RJ85	12
Liquid	Ants, Beetles, Boxelder Bugs, Fleas, Roaches, Scorpions, Silverfish, Spiders, Ticks	16 oz.	Deltamethrin	Black Flag	36WG36	1
Liquid Spray	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	1.33 gal.	Cypermethrin	Black Flag	48LR79	1
Indoor Only						
Aerosol	Ants, Bed Bugs, Beetles, Centipedes, Fleas, Flies, Gnats, Mosquitoes, Moths, Silverfish, Spiders, Wasps	2 oz.	Cypermethrin	Enforcer	53RJ86	12
Fogger	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	1.2 oz.	Pyrethrin	Hot Shot	36WG27	3
Flying Insects						
Indoor/Outdoor						
18 ft. Long Range Aerosol	Bees, Flies, Gnats, Mosquitoes, Moths, Wasps	16 oz.	Pyrethrin	Tough Guy	2DCB1	1
20 ft. Long Range Aerosol	Bees, Wasps	12 oz.	Permethrin, Piperonyl Butoxide, Tetramethrin	Dymon	6XMH4	1
	Bees, Hornets, Yellow Jackets, Wasps	12 oz.	Permethrin, Piperonyl Butoxide, Tetramethrin	Tough Guy	2DCB5	1
Aerosol	Bees, Flies, Gnats, Mosquitoes, Moths, Wasps	15 oz.	Permethrin	Hot Shot	48LR73	1
	Flies, Gnats, Mosquitoes, Moths	16 oz.	Tetramethrin	Enforcer	53RJ88	12
Dry Fog™	Bees, Flies, Gnats, Mosquitoes, Moths, Wasps	14 oz.	Piperonyl Butoxide, Pyrethrins	Dymon	6XMH6	1
Indoor Only						
Aerosol	Flies, Gnats, Mosquitoes	16 oz.	N-Octyl bicycloheptene dicarboximide, Piperonyl Butoxide, Prallethrin	Enforcer	38GM02	12
Outdoor Only						
20 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz.	Phenothrin, Tetramethrin	CRC	4JB47	1
	Wasps, Yellow Jackets	18 oz.	Permethrin, Piperonyl Butoxide, Tetramethrin	Spectracide	48LR83	1
22 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz.	Cypermethrin, Prallethrin	Raid	4HK60	1
27 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz.	Lambda Cyhalothrin, Prallethrin	Hot Shot	36WG20	1
	Wasps, Yellow Jackets	20 oz.	Permethrin, Piperonyl Butoxide, Tetramethrin	Spectracide	36WG19	1
Aerosol	Wasps, Yellow Jackets	16 oz.	Permethrin, Piperonyl Butoxide, Tetramethrin	Enforcer	38GM03	12
	Wasps, Yellow Jackets	16 oz.	Tetramethrin	Enforcer	53RJ82	12
Liquid Spray	Fleas, Mosquitoes, Ticks	32 oz.	Permethrin	Enforcer	53RJ89	12
Mosquito Larvicide						
Outdoor Only						
Tablets	Mosquitoes	0.6 oz.	Spinosad	Natular	54FY57	12



No. 2HZA9



No. 5PTR1



No. 36WG32



No. 14N883



No. 48LR79



No. 2DCB1

No. 2DCB5



No. 6XMH6



No. 4JB47



No. 4HK60



No. 36WG20



No. 36WG19



No. 53RJ89



No. 54FY57

Choose the Right Ladder for the Job

STEP 1: WHAT MATERIAL DO YOU NEED?

Fiberglass or Aluminum?

Fiberglass

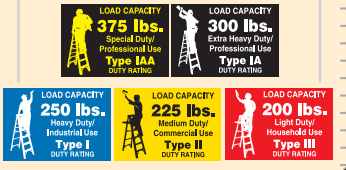
Rugged and durable, ideal when working around electricity. Feature noncon-ductive side rails.

Aluminum

Lightweight and easy to carry. Not for use around electricity.

STEP 2: CHOOSE LOAD CAPACITY/DUTY RATINGS

Load capacity is the combined weight of user and materials.



STEP 3: CHOOSE THE SIZE/HEIGHT

STEPLADDERS

Max. Ht. of Desired Reach (ft.)*	Choose This Size (ft.)
7	3
8	4
9	5
10	6
11	7
12	8
14	10
16	12
18	14
20	16

* Assumes a 5-ft. 6" person with a vertical 12" reach.

EXTENSION LADDERS

Height to Top Support Point (ft.)	Choose This Size (ft.) †
9 Maximum	16
9 to 13	20
13 to 17	24
17 to 21	28
21 to 25	32
25 to 28	36
28 to 31	40

† Reflects section overlap, ladder angle and 3-ft. extension above roof line.

L7300 SERIES

- Safely lean against wall
- Rail latch holds rear rail to front rail in leaning mode

Fiberglass, Type 1AA, 375-lb. Duty Rating



6300 SERIES

- Red side rails
- Molded versatile LockTop® securely holds drills and tools
- Top accommodates Lock-In accessories
- Molded large boots with EDGE Bracing
- Steel Internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating



7300 SERIES

- Molded external rail shields and EDGE Bracing
- Aluminum Tool-Tra-Top® securely holds tools
- Extra-large knee braces—front and back
- Extra-wide base width
- Steel internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating



7400 SERIES

- Aluminum external rail shields and EDGE Bracing
- Aluminum Tool-Tra-Top® securely holds tools
- Extra-large knee braces—front and back
- Extra-wide base width—widest ladder in industry
- Larger spread than 7300 Series
- Aluminum internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating



400 SERIES

- Aluminum Tool-Tra-Top®
- Fully knee braced—front and back
- Slip-resistant foot pads
- Internal spreader bars except on 4-ft. and 6-ft. sizes

Aluminum, Type 1AA, 375-lb. Duty Rating



6100 SERIES

- Molded Proguard Boot™ provide firm slip-resistant footing
- Versatile HolsterTop® securely hold drills and tools
- Top accommodates Lock-In accessories
- Metal bottom step knee braces
- Internal spreader bars

Fiberglass, Type 1A, 300-lb. Duty Rating



6200 SERIES

- Orange side rails
- Molded versatile LockTop® securely hold drills and tools
- Top accommodates Lock-In accessories
- Molded large boots with EDGE Bracing
- Steel internal spreader bars

Fiberglass, Type 1A, 300-lb. Duty Rating



370 SERIES

- Molded Tool-Tra-Top® securely holds tools
- Internal "H" spreader on 4-ft., 5-ft., and 6-ft. sizes
- Auto-closing molded pail shelf
- Aluminum foot bracket with slip-resistant pad

Aluminum, Type 1A, 300-lb. Duty Rating



6000 SERIES

- Molded HolsterTop®
- Top accommodates Lock-In accessories
- EDGE bracing at bottom
- External spreader bars

Fiberglass, Type 1, 250-lb. Duty Rating



360 SERIES

- Molded Tool-Tra-Top®
- Auto-closing molded pail shelf
- External spreaders
- Slip-resistant foot pads
- Ideal for painting

Aluminum, Type 1, 250-lb. Duty Rating



5900 SERIES

- Molded HolsterTop®
- Top accommodates Lock-In accessories
- EDGE bracing at bottom
- External spreader bars
- Ideal for light-duty or homeowner use

Fiberglass, Type II, 225-lb. Duty Rating



WERNER

Stepladders

- The most popular ladder style used for low and medium heights

Series	Ladder Height	Material	Item No.
Type IAA, 375-lb. Duty Rating			
L7300	4 ft.	Fiberglass	458R92
	6 ft.	Fiberglass	458R93
	8 ft.	Fiberglass	458R94
	10 ft.	Fiberglass	458R95
	12 ft.	Fiberglass	458R96
6300	4 ft.	Fiberglass	29JV18
	5 ft.	Fiberglass	29JV20
	6 ft.	Fiberglass	29JV21
	8 ft.	Fiberglass	29JV23
	10 ft.	Fiberglass	29JV25
	12 ft.	Fiberglass	29JV27
7300	3 ft.	Fiberglass	41D244
	4 ft.	Fiberglass	6JJ81
	5 ft.	Fiberglass	3AZX3
	6 ft.	Fiberglass	6JJ82
	8 ft.	Fiberglass	6JJ83
	10 ft.	Fiberglass	6JJ84
	12 ft.	Fiberglass	6JJ85
7400	3 ft.	Fiberglass	41D241
	4 ft.	Fiberglass	4XN71
	5 ft.	Fiberglass	3AZX4
	6 ft.	Fiberglass	4XN72
	7 ft.	Fiberglass	3AZX5
	8 ft.	Fiberglass	4XN73
	10 ft.	Fiberglass	4XN74
	12 ft.	Fiberglass	4XN75
400	4 ft.	Aluminum	4XN58
	6 ft.	Aluminum	4XN59
	8 ft.	Aluminum	4XN60
	10 ft.	Aluminum	4XN61
	12 ft.	Aluminum	4XN63
Type IA, 300-lb. Duty Rating			
6100	4 ft.	Fiberglass	29JV19
	6 ft.	Fiberglass	29JV22
	8 ft.	Fiberglass	29JV24
	10 ft.	Fiberglass	29JV26
	12 ft.	Fiberglass	29JV28
6200	3 ft.	Fiberglass	41D245
	4 ft.	Fiberglass	3W421
	5 ft.	Fiberglass	3AZX1
	6 ft.	Fiberglass	3W141
	7 ft.	Fiberglass	3AZX2
	8 ft.	Fiberglass	3W142
	10 ft.	Fiberglass	3W183
	12 ft.	Fiberglass	3W422
370	3 ft.	Aluminum	2EJG8
	4 ft.	Aluminum	4W074
	5 ft.	Aluminum	3AZX9
	6 ft.	Aluminum	3W423
	8 ft.	Aluminum	3W424
	10 ft.	Aluminum	4W172
400	14 ft.	Aluminum	4XN64
	16 ft.	Aluminum	4XN67
Type I, 250-lb. Duty Rating			
6000	4 ft.	Fiberglass	4W077
	5 ft.	Fiberglass	3AZW9
	6 ft.	Fiberglass	4W078
	8 ft.	Fiberglass	4W079
360	4 ft.	Aluminum	41D304
	5 ft.	Aluminum	41D305
	6 ft.	Aluminum	41D306
	8 ft.	Aluminum	4GNK8
Type II, 225-lb. Duty Rating			
5900	4 ft.	Fiberglass	41D251
	6 ft.	Fiberglass	41D252
	8 ft.	Fiberglass	41D253

Find more information on Ladder selection on page 1024.

Stepladders

WESTWARD

Features slip-resistant shoes, heavy-duty spreader braces, heavy-duty reinforcements, slip-resistant tread in every step, wide back braces, and molded top with handyman's tool slots.

Ladder Height	FIBERGLASS Item No.	ALUMINUM Item No.
Type IAA, 375-lb. Duty Rating		
4 ft.	44YY52	—
6 ft.	44YY48	—
8 ft.	44YY47	—
10 ft.	44YY37	—
12 ft.	44YY50	—
Type IA, 300-lb. Duty Rating		
4 ft.	44YY63	44YY59
6 ft.	44YY19	44YY12
8 ft.	44YY29	44YY64
10 ft.	44YY61	44YY51
12 ft.	44YY30	—
Type I, 250-lb. Duty Rating		
4 ft.	44YY44	—
6 ft.	44YY23	—
8 ft.	44YY41	—



No. 44YY12

WESTWARD

Platform Stepladders

Features gapless slip-resistant platform, top rail guard. Double rivet step construction.



No. 44YY26

Platform Height	Ladder Height	FIBERGLASS Item No.	ALUMINUM Item No.
Type IA, 300-lb. Duty Rating			
1 ft. 11"	3 ft. 10"	44YY26	44YY36
3 ft. 10"	5 ft. 9"	44YY11	44YY35
5 ft. 8"	7 ft. 7"	44YY31	44YY18
7 ft. 7"	9 ft. 6"	44YY10	44YY65
9 ft. 6"	11 ft. 5"	44YY27	44YY22

Platform Ladders

- Ideal for working in concentrated spaces and at fixed heights
- Large platform provides secure and comfortable work area
- Safety guard rail encourages proper use and is positioned 2 ft. above platform

P7400 SERIES

- Available up to 12-ft. platform height
- 10-ft. and 12-ft. heights are Type IA, 300-lb. Duty Rating
- Fully knee braced steps and rear horizontals
- Aluminum external rail shields and EDGE Bracing

Fiberglass, Ladder Type 1AA, 375-lb. Duty Rating

P6200 SERIES

- Available up to 10-ft. platform height
- Fully knee braced steps
- EDGE bracing at bottom
- Molded large boots at bottom

Fiberglass, Type 1A, 300-lb. Duty Rating

WERNER

P370 SERIES

- Available up to 8-ft. platform height
- Double knee braced bottom 3 steps
- Metal bottom step braces
- Slip-resistant foot pads

Aluminum, Type 1A, 300-lb. Duty Rating

P400 SERIES

- Available up to 14-ft. platform height
- 10-ft., 12-ft. and 14-ft. heights are Type IA, 300-lb. Duty Rating
- Fully knee braced steps
- Slip-resistant foot pad

Aluminum, Type 1AA, 375-lb. Duty Rating



P7400 Series



P6200 Series



P370 Series



P400 Series

Series	Platform Height	Ladder Height	Material	Item No.
Type IA, 375-lb. Duty Rating				
P7400	4 ft.	6 ft.	Fiberglass	6W679
	6 ft.	8 ft.		3W186
	8 ft.	10 ft.		6W680
P400	4 ft.	6 ft.	Aluminum	6W686
	8 ft.	6 ft.		6W687
	8 ft.	10 ft.		6W688

Series	Platform Height	Ladder Height	Material	Item No.
Type IA, 300-lb. Duty Rating				
P7400	10 ft.	12 ft.	Fiberglass	4XP29
	12 ft.	14 ft.		41D243
P6200	2 ft.	4 ft.		41D247
	4 ft.	6 ft.		4EB96
	6 ft.	8 ft.		4EB97
	8 ft.	10 ft.		4EB98
	10 ft.	12 ft.		3AZY5
P370	2 ft.	4 ft.	Aluminum	41D295
	3 ft.	5 ft.		41D296
	4 ft.	6 ft.		41D297
	6 ft.	8 ft.		41D298
	8 ft.	10 ft.		41D299
P400	10 ft.	12 ft.		41D292
	12 ft.	14 ft.		41D293
	14 ft.	16 ft.		41D294

Twin Platform Ladders

- Available with and without casters
- Ideal for two-person jobs, working in concentrated spaces, and at fixed heights
- Duty Rating applies to each side
- Safety guard rail encourages proper use
- Twin platform ladders overall height is 2 ft. higher than the platform

PT7400 SERIES

- Double riveted steps with knee braces on each
- Large platform provides secure work area
- Large aluminum External rail shield
- Available up to 10-ft. platform height
- 12" closed storage width

Fiberglass, Type 1AA, 375-lb. Duty Rating

PT7400-4C SERIES

- 4 spring-mounted rubber swivel casters
- Double riveted steps with knee braces on each
- Large platform provides secure work area
- Large aluminum external rail shields
- Available up to 10-ft. platform height
- 12" closed storage width

Fiberglass, Ladder Type 1AA, 375-lb. Duty Rating

PT370 SERIES

- Double riveted steps

WERNER

- Large platform provides secure work area
- Available up to 10-ft. platform height
- 10" closed storage width

Aluminum, Type 1A, 300-lb. Duty Rating

PT6000-4C SERIES

- 4 spring-mounted rubber swivel casters
- Large platform provides secure work area
- Available up to 8-ft. platform height
- 12" closed storage width

Fiberglass, Type 1, 250-lb. Duty Rating

Series	Platform Height	Ladder Height	Material	Item No.
Type IAA, 300-lb. Duty Rating				
PT7400	4 ft.	6 ft.	Fiberglass	34E337
	6 ft.	8 ft.		34E338
	8 ft.	10 ft.		34E339
	10 ft.	12 ft.		34E340
PT7400-4C	4 ft.	6 ft.		3AZY6
	6 ft.	8 ft.		4XP39
	8 ft.	10 ft.		4XP40
	10 ft.	12 ft.		4XP41
Type IA, 300-lb. Duty Rating				
PT370	4 ft.	6 ft.	Aluminum	3AZY7
	6 ft.	8 ft.		3AZY8
	8 ft.	10 ft.		3AZY9
	10 ft.	12 ft.		41D302
Type I, 250-lb. Duty Rating				
PT6000-4C	2 ft.	4 ft.	Fiberglass	41D248
	4 ft.	6 ft.		4XP36
	6 ft.	8 ft.		4XP37
	8 ft.	10 ft.		4XP38



PT7400 Series



PT7400-4C Series



PT370 Series



PT6000-4C Series

Find more information on Ladder selection on page 1024.


No. 20KJ26


No. 45ED70

Podium Ladders

WERNER

- Ideal for working at fixed heights
- Comfortable secure feel with 4X Work Zone to reach in all directions
- Large podium platform with toe guard
- Waist high guard rail with Lock-In accessories slots
- EDGE360™ bracing with molded large boots
- Overall ladder height is 3 ft. above platform
- Available with and without casters

Series	Platform Height	Ladder Height	Material	WITHOUT CASTERS Item No.	WITH CASTERS Item No.
Type IAA, 375-lb. Duty Rating					
PD7300	3 ft.	6 ft.	Fiberglass	36FX50	45ED69
	4 ft.	7 ft.		36FX51	45ED70
	6 ft.	9 ft.		36FX52	45ED71
	8 ft.	11 ft.		36FX53	45ED72
Type IA, 300-lb. Duty Rating					
PD6200	3 ft.	6 ft.	Fiberglass	20KJ26	45ED64
	4 ft.	7 ft.		20KJ27	45ED65
	6 ft.	9 ft.		20KJ28	45ED66
	8 ft.	11 ft.		20KJ29	45ED67
	10 ft.	13 ft.		—	45ED68
	9½ ft.			20KJ30	—


T7400 Series


T400 Series


T6200 Series


T370 Series


T6000 Series

Twin Ladders

WERNER

- Designed for one- or two-person jobs
- Duty Rating applies to each side

T7400 SERIES
- Aluminum extruded top
- EDGE bracing with aluminum external rail shields
- Aluminum internal spreader bars
- Extra-large knee braces on every step
- 14-ft. to 20-ft. heights are Type 1A, 300 lb.

Fiberglass, Type 1AA, 375-lb. Duty Rating

T400 SERIES
- Aluminum extruded top
- Aluminum internal spreader bars
- Extra-large knee braces on every step
- Metal bottom step braces

Aluminum, Type 1AA, 375-lb. Duty Rating

T6200 SERIES
- Molded LockTop® top securely holds tools
- EDGE360™ Bracing with molded large boots
- Steel internal spreader bars
- Fully knee braced on every step

Fiberglass, Type 1A, 300-lb. Duty Rating

Series	Ladder Height	Material	Item No.
Type IAA, 375-lb. Duty Rating			
T7400	4 ft.	Fiberglass	4XP48
	5 ft.		41D242
	6 ft.		4XP49
	8 ft.		4XP50
	10 ft.		4XP51
	12 ft.		4XP52
T400	4 ft.	Aluminum	41D287
	6 ft.		41D288
	8 ft.		41D289
	10 ft.		41D290
	12 ft.		41D291

T370 SERIES
- Aluminum extruded top
- Steel internal spreader bars
- Metal bottom step braces
- Slip-resistant foot pads

Aluminum, Type 1A, 300-lb. Duty Rating

T6000 SERIES
- Molded HolsterTop® securely hold drills and tools
- EDGE bracing at bottom
- Steel external spreader bars

Fiberglass, Type 1, 250-lb. Duty Rating

Series	Ladder Height	Material	Item No.
Type IA, 300-lb. Duty Rating			
T7400	14 ft.	Fiberglass	4XP53
	16 ft.		4XP54
	20 ft.		4XP55
T6200	3 ft.		41D246
	4 ft.		6YG79
	5 ft.		3AZX6
	6 ft.		6YG80
	8 ft.		6YG81
	10 ft.		3AZX7
	12 ft.		3AZX8
T370	4 ft.	Aluminum	3AZY1
	6 ft.		3AZY2
	8 ft.		3AZY3
	10 ft.		3AZY4
Type I, 250-lb. Duty Rating			
T6000	4 ft.	Fiberglass	9NV38
	6 ft.		8CKH1
	8 ft.		9GA67


No. 44YY09

WESTWARD

Fiberglass Twin Stepladders

The load capacity applies to each side of the ladder and is built for use by two people (one per side) simultaneously. Comes equipped with heavy-duty boots.

Ladder Height	Item No.
Type IAA, 375-lb. Duty Rating	
4 ft.	44YY09
6 ft.	44YY68
8 ft.	44YY16
10 ft.	44YY42
12 ft.	44YY24
Type IA, 300-lb. Duty Rating	
4 ft.	44YY54
6 ft.	44YY55
8 ft.	44YY38
10 ft.	44YY32
12 ft.	44YY33


No. 15G136


No. 15G135

LOUISVILLE LADDER

MRI Twin Stepladders

Nonmagnetic and nonconductive Type IAA twin stepladders are proven MR Conditional in nonclinical testing; can be used in MRI environments under specified conditions. Slip-resistant nonmarring boots and steps improve worker stability.

Series	Ladder Height	Material	Item No.
Type IAA, 375-lb. Duty Rating			
L-3431 Series	6 ft.	Fiberglass	15G136
	8 ft.		36Y501
L-2431 Series	6 ft.	Aluminum	15G135
	8 ft.		36Y494

Find more information on Ladder selection on page 1024.



XTEND & CLIMB

Aluminum Telescoping Ladders

Extends from inches to feet to desired height. Ladders retract smoothly from a locking mechanism. Features integrated closure strap and carry handle for easy maneuverability. Has visual indicators for locking and releasing. Meet ANSI safety standards.

For additional Type II and Type IA ladders, go to Grainger.com® and search by Type II and IA Ladders.

Extended Ladder Height	Bottom Width	Item No.
Type 1A, 300-lb. Duty Rating		
12 ft. 6"	19"	**54YF85**
12 ft. 6"	19¾"	**54YF87**
Type 1, 250-lb. Duty Rating		
8 ft. 6"	18"	**54YF82**
10 ft. 6"	18"	**54YF83**
12 ft. 6"	19"	**54YF84**
15 ft. 6"	19½"	**54YF86**
15 ft. 6"	19¾"	**54YF88**
16 ft. 6"	19¾"	**54YF89**









Little Giant Ladder Systems

Multi-Telescoping Ladders

The Revolution™ features an innovative design and are up to 20% lighter than other multipurpose ladders. Also feature Quad-Lock™ hinge locks and the Rock Lock™ adjusters.

Series	Ladder Height	Extended Ladder Height	Stepladder Height	Scaffold Height	Material	Item No.	
Type IAA, 375-lb. Duty Rating							
Dark Horse	13 ft.	11 ft.	3 to 5 ft.	1 to 3 ft.	Fiberglass	**26W724**	
Super Duty	13 ft.	11 ft.	3 to 5 ft.	1 to 3 ft.	Aluminum	**1YME9**	
	17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.		**1YMG1**	
	22 ft.	19 ft.	5 to 9 ft.	1 to 3 ft.		**1YMG2**	
Type IA, 300-lb. Duty Rating							
Conquest	17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.	Fiberglass	**31XW67**	*
Dark Horse	17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.		**26W727**	
	17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.		**26W725**	**
	22 ft.	9 ft. 6"	5 to 9 ft.	1 to 3 ft.		**40P124**	**
Revolution	17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.	Aluminum	**3EJT6**	**
	22 ft.	19 ft.	5 to 9 ft.	1 to 3 ft.		**3EJT7**	**
	26 ft.	26 ft.	6 to 11 ft.	1 to 3 ft.		**26W732**	**

** Includes V-Rung. ** Can be used as a Scaffolding with the use of optional Trestle Brackets Nos. 31XW71 and 48WJ50 and optional Planks Nos. 20Z656, 4ZB12, and 4ZB13 (sold separately).*

WERNER

Multi-Telescoping Ladders

MT SERIES

- Steps are riveted to side rails
- Ladder Leveler No. 4XP35 (see page 1028) can be field installed
- Compatible with PA200 Series aluminum extension planks

Aluminum, Type 1A, 300-lb. Duty Rating
Easily converts into 4 different positions:
Position 1—Twin Stepladder
Position 2—Stairway Ladder
Position 3—Extension Ladder
Position 4—Scaffold Bases

Ladder Height	Extended Ladder Height	Stepladder Height	Scaffold Height	Material	Item No.
Type IA, 300-lb. Duty Rating					
13 ft.	11 ft.	3 to 5 ft.	1 ft. 11"	Aluminum	**2NKW6**
17 ft.	15 ft.	4 to 7 ft.	2 ft. 11"		**2NKW7**
22 ft.	19 ft.	5 to 9 ft.	3 ft. 10"		**2NKW8**
26 ft.	23 ft.	6 to 11 ft.	4 ft. 10"		**2NKW9**





WESTWARD

Aluminum Multipurpose Ladders

Ladder has the ability to change into 4 different ladder positions including a stepladder, stairway ladder, scaffold, and an extension ladder. Features a wide footprint for more stability and flip and lock hinges.

Ladder Height	Extended Ladder Height	Stepladder Height	Scaffold Height	Item No.
Type IA, 300-lb. Duty Rating				
13 ft.	11 ft.	3 to 5 ft.	1 to 2 ft.	**44YY66**
17 ft.	15 ft.	4 to 7 ft.	1 to 3 ft.	**44YY39**
22 ft.	19 ft.	5 to 9 ft.	1 to 4 ft.	**44YY28**
26 ft.	23 ft.	6 to 11 ft.	1 to 4 ft.	**49DJ47**




Obel Series


DP62000 Series


E7400 Series


FTP6200 Series

Specialty Ladders

WERNER

OBEL SERIES
- Custom molded top designed for electrical contractors
- Integrated retractable conduit holder for cutting pipe
- Wire spool holders and a multiuse hook
- EDGE bracing at bottom
- Internal spreader bars

Fiberglass Electricians Job Station Stepladders, Type 1AA, 375-lb. Duty Rating

DP62000 SERIES
- 2-in-1 design: stepladder and extension ladder
- Flip and click the ladder from one position to the other
- Full 3" steps for better standing comfort
- Padded V-rung for working on corners, poles, and trees
- Oversized, molded PROGUARD BOOTS™ help with slip resistance

E7400 SERIES
- Convenient for versatile applications
- Ideal for two-person jobs and working at various heights
- Duty rating applies to each stepladder side
- Double riveted, fully knee braced steps
- Aluminum external rail shields and EDGE bracing

Fiberglass Extension Trestle Ladder, Type 1A, 300-lb. Duty Rating

FTP6200 SERIES
- Back rail fits through studs, tight areas, around corners and uneven surfaces
- Spreader handle designed for convenient setup and transport
- Fully based front section
- Extra-wide stance for stability
- Available up to 12 ft.

Fiberglass Tripod Ladder, Type 1A, 300-lb. Duty Rating

Series	Ladder Height	Material	Item No.
Type IAA, 375-lb. Duty Rating			
OBEL00	4 ft.	Fiberglass	1FCF1
	6 ft.		1FCF2
	8 ft.		1FCF3
	10 ft.		1FCF4
	12 ft.		1FCF5
Type IA, 300-lb. Duty Rating			
DP62000	6 ft.	Fiberglass	53KC25
	7 ft.		53KC26
	8 ft.		53KC27
E7400	8 ft.		4XP05
	10 ft.		4XP06
	12 ft.		4XP07
	14 ft.		4XP08
	16 ft.		4XP09
FTP6200	4 ft.		4ZY19
	6 ft.		4EB99
	8 ft.		4ZY20
	10 ft.		41D249
	12 ft.		41D250


No. 36GL23

Adjustable Enclosed Safety Cages

Little Giant Ladder Systems

- Nonconductive, high-strength, fiberglass-resin composite
- Fully adjustable 1-ft. increments

Offer versatile, safe alternative to tie-off, allowing access to constricted areas and drop ceilings while complying with tie-off rules. Help protect operators in a fully enclosed working platform, allowing them to work safely and quickly with 2 hands. Each side adjusts independently to multiple heights; adjusts to work safely on uneven surface and stairs. Models with Wheel Lift™ casters allow cage to move from place to place fully deployed. Built-in Tip & Glide™ wheels make it quick-and-easy to roll anywhere.

Series	Platform Height	Includes	Item No.
Type IAA, 375-lb. Duty Rating			
Compact Safety Cage	4 to 6 ft.	Tip and Glide Wheels	48RR82
	6 to 10 ft.	Wheel Lift, Outriggers, Side Tip Wheels, Net	48RR88
		Wheel Lift, Outriggers, Side Tip Wheels, Ratchet Levelers	48RR89
Adjustable Safety Cage	3 to 5 ft.	Wheel Lift, Net	36GL22
	5 to 9 ft.	Wheel Lift, Outriggers, Net	36GL23
	8 to 14 ft.		36GL24


Aluminum Extension Planks No. 4XP31


No. 4XN82

Ladder Jacks, Planks and Leveler

WERNER

Aluminum Extension Planks - PA200 Series—Made of 2" deep box section extrusions for outstanding rigidity in ladder jack, trestle ladder, and step stool applications. Locking mechanism sets plank in 12" increments; positive stops prevent overextending.

WARNING: When assembled as a scaffold or staging, planks must be used in conjunction with suitable guardrail protection in compliance with applicable governmental codes, ordinances, regulations, and safe practices.

Ladder Jack Clamping System—Ladder jacks mount to either side of extension ladder and clamps securely hold stage platform to ladder jacks. OSHA and ANSI Standards require ladder jacks only be used on Type 1, Type 1A, or Type 1AA ladders.
- Accommodates up to 20"W stage planks

Description	Series	Overall Length	Load Capacity	Material	Item No.
Extension Plank	PA200	6 to 9 ft.	250 lb.	Aluminum	4XP30
Extension Plank	PA200	8 to 13 ft.	250 lb.	Aluminum	4XP31
Extension Plank	PA200	10 to 17 ft.	250 lb.	Aluminum	4XP32
Ladder Jack Clamping System	—	—	300 lb.	—	4XN82
Ladder Leveler	—	—	—	Aluminum	4XP35

WERNER

Find more information on Ladder selection on page 1024.

Extension Ladders

- Aluminum extruded gravity spring locks
- D-shape rungs except 7100-2 series
- Fiberglass have prepierced holes at top of fly section for easy field installation of accessories

Exclusive ALFLO rung joint connections provide excellent, twist-proof performance. Dual-action feet with spur plate are great for use on hard or penetrable surfaces and molded end caps are mar resistant. Rope and pulley system not included on 16-ft. ladders.

Series	Ladder Size	Max. Working Height	Material	Item No.
Type IAA, 375-lb. Duty Rating				
D7100-2	16 ft.	13 ft.	Fiberglass	4XN97
	20 ft.	17 ft.		4XN98
	24 ft.	21 ft.		4XN99
	28 ft.	25 ft.		4XP01
	32 ft.	29 ft.		4XP02
7100-2	16 ft.	13 ft.		41D258
	20 ft.	17 ft.		41D259
	24 ft.	21 ft.		41D260
	28 ft.	25 ft.		41D261
	32 ft.	29 ft.		41D262
D500-2	20 ft.	17 ft.	Aluminum	41D317
	24 ft.	21 ft.		41D318
	28 ft.	25 ft.		41D319
	32 ft.	29 ft.		41D320
Type IA, 300-lb. Duty Rating				
D7100-2	36 ft.	32 ft.	Fiberglass	41D257
	40 ft.	35 ft.		3W621
D6200-2	16 ft.	13 ft.		3W620
	20 ft.	17 ft.		3W184
	24 ft.	21 ft.		3W139
	28 ft.	25 ft.		3W140
	32 ft.	29 ft.		3W185
	36 ft.	32 ft.		41D271
	40 ft.	35 ft.		4XP10
D6200-3	16 ft.	13 ft.		22E977
	20 ft.	17 ft.		22E978
	24 ft.	21 ft.		22E979
	28 ft.	25 ft.		22E980
	32 ft.	29 ft.		22E981
D1500-2	16 ft.	13 ft.	Aluminum	4XN89
	20 ft.	17 ft.		4XN90
	24 ft.	21 ft.		4XN91
	28 ft.	25 ft.		4XN92
	32 ft.	29 ft.		4XN93
	36 ft.	32 ft.		4XN94
	40 ft.	35 ft.		4XN95
D500-2	40 ft.	35 ft.		41D321
	48 ft.	43 ft.		4XN96
Type II, 225-lb. Duty Rating				
D5900-2	16 ft.	13 ft.	Fiberglass	41D276
	20 ft.	17 ft.		41D277
	24 ft.	21 ft.		41D278
D1200-2	16 ft.	13 ft.	Aluminum	4GNK9
	20 ft.	17 ft.		41D329
	24 ft.	21 ft.		4GNL1
	28 ft.	25 ft.		41D330
D1200-3	16 ft.	13 ft.		41D331
	24 ft.	21 ft.		41D332
Type I, 250-lb. Duty Rating				
D6000-2	16 ft.	13 ft.	Fiberglass	41D272
	20 ft.	17 ft.		41D273
	24 ft.	21 ft.		41D274
	28 ft.	25 ft.		41D275
D1300-2	16 ft.	13 ft.	Aluminum	41D322
	20 ft.	17 ft.		41D323
	24 ft.	21 ft.		41D324
	28 ft.	25 ft.		41D325
	32 ft.	29 ft.		41D326
	36 ft.	32 ft.		41D327
	40 ft.	35 ft.		41D328



D7100-2 SERIES
- Rung plate rung to rail connections
- Ideal for utility and telecommunication industries
- Base and fly separate
- Rail shield and shoe bracket protect rail from damage
- 36-ft. and 40-ft. are Type 1A 300 lb.

Fiberglass D-Rung, Type 1AA, 375-lb. Duty Rating



7100-2 SERIES
- Round shape rungs
- Ideal for utility and telecommunication industries
- Rung Plate rung to rail connections
- Base and fly separate
- Rail shield and shoe bracket protect rail from damage

Fiberglass, Round Rung, Type 1AA, 375-lb. Duty Rating



D500-2 SERIES
- Interlocking side rails
- Base and fly separate easily
- 1¾" D-rungs
- Base section width is 19⅛"
- 40-ft. and 48-ft. are Type IA 300 lb.

Aluminum, D-Rung, Type 1AA, 375-lb. Duty Rating



D6200-2 SERIES
- Direct rung to rail connections
- Base and fly separate
- Combination rail shield bracket and shoe with slip resistant pad
- Molded rung braces at bottom for increased durability

Fiberglass, D-Rung, Type 1A, 300-lb. Duty Rating



D6200-3 SERIES
- Three-section design allows the ladder to close shorter than 2 section ladders
- Easier to maneuver and transport
- Include carry handle
- Direct rung to rail connections

Fiberglass, Compact, Type 1A, 300-lb. Duty Rating



D1500-2 SERIES
- Stacked side rails so base and fly sections are same 18⅛"W
- Base and fly separate easily
- Dual-action feet with spur plate

Aluminum, D-Rung, Type 1A, 300-lb. Duty Rating



D5900-2 SERIES
- Direct rung to rail connections
- Curved shape side rails for user comfort
- Lighter carrying weight than heavier duty rated ladders

Fiberglass D-Rung, Type II, 225-lb. Duty Rating



D1200-2 SERIES
- Direct rung to rail connections
- Ideal for painting
- Lightweight

Aluminum, D-Rung, Type II, 225-lb. Duty Rating



D1200-3 SERIES
- 3-section, compact
- Interlocking side rails
- Mar-resistant molded end caps
- Slip-resistant shoe with SHU-LOK™ featur and spur plate
- Slip-resistant TRACTIO TRED® D-rungs
- Spring-loaded locks

Aluminum, D-Rung, Type 225-lb. Duty Rating



D6000-2 SERIES
- Direct rung to rail connections
- Combination rail shield bracket and shoe with slip-resistant pad
- Molded rung braces at bottom for increased durability

Fiberglass, D-Rung, Type I, 250-lb. Duty Rating



D1300-2 SERIES
- Interlocking side rails
- 1¾" D-rungs
- Base section is 17⅜"W
- Ideal for painting

Aluminum, D-Rung, Type 1, 250-lb. Duty Rating

WESTWARD

Extension Ladders

Ladders are lightweight and adjustable in 12" increments. Feature aluminum swivel safety shoe.

Industry Ladder Size	Max. Working Height	Material	Item No.
Type IAA, 375-lb. Duty Rating			
16 ft.	13 ft.	Fiberglass	44YY20
20 ft.	17 ft.	Fiberglass	44YY62
24 ft.	21 ft.	Fiberglass	44YY57
28 ft.	25 ft.	Fiberglass	44YY17
Type IA, 300-lb. Duty Rating			
16 ft.	13 ft.	Aluminum	44YY45
16 ft.	13 ft.	Fiberglass	44YY67
20 ft.	17 ft.	Fiberglass	44YY15
20 ft.	17 ft.	Aluminum	44YY56

** Includes leveler*

Industry Ladder Size	Max. Working Height	Material	Item No.	
24 ft.	21 ft.	Aluminum	44YY46	
24 ft.	21 ft.	Fiberglass	44YY60	
28 ft.	25 ft.	Aluminum	44YY43	
28 ft.	25 ft.	Fiberglass	44YY49	
28 ft.	20 ft.	Fiberglass	44YY58	*
32 ft.	29 ft.	Fiberglass	44YY21	
40 ft.	35 ft.	Fiberglass	44YY40	



No. 44YY57



No. 44YY45



7800 SERIES
- Converts to a step or extension ladder
- Padded V-rung at top in extension position
- Fixed aluminum locks secure rungs in extension ladder position
- Large hoop feet

Fiberglass, Combination Ladder, Type IAA, 375-lb. Duty Rating



D7100-2LV SERIES
- Rung plate rung to rail connections
- Base and fly separate easily
- Factory installed, foot action Level Lok® extends up to 10" in 3/16" increments
- Prepierced holes at top of fly section for easy field installation of accessories
- 36-ft. and 40-ft. models are Type 1A, 300 lb.

Fiberglass, D-Rung Extension Ladder, Type IAA, 375-lb. Duty Rating



D8200-2EQ SERIES
- Factory installed EverLevel® leveling system: adjusts up to 8 1/4" in 3/8" increments
- Direct rung to rail connections
- Dual-action feet with spur plate

Fiberglass, D-Rung Extension Ladder, Type IA, 300-lb. Duty Rating



9500-2 SERIES
- Fiberglass round rungs
- Rail and rung connected with reinforced nylon plugs
- Unique box beam rail
- Dual-action feet with spur plate

Fiberglass, Round Rung Extension Ladder, Type IA, 300-lb. Duty Rating



560-3 SERIES
- Removable top fly section
- Heavy-duty rope and double pulley system
- Dual-action feet with spur plate
- Maximum working length is 47 ft.

Aluminum, Round Rung Extension Ladder, Type I, 250-lb. Duty Rating



D1800-2EQ SERIES
- Factory installed EverLevel® leveling system: adjusts up to 8 1/4" in 3/8" increments
- Direct rung to rail connections
- Built-in bubble leveler at bottom rung
- Dual-action feet with spur plate

Aluminum, D-Rung Extension Ladder, Type I, 250-lb. Duty Rating



500-1 SERIES
- Dual-action feet with spur plate
- Hoop end caps
- 8-ft. to 12-ft. ladders are 16 7/8"W
- 24-ft. ladder is 20 5/8"W
- 18-ft., 20-ft. and 24-ft. models are Type IA, 300 lb.

Aluminum, Round Rung Straight Ladder, Type IAA, 375-lb. Duty Rating



7100-1 SERIES
- Rung plate rung to rail connections
- Rail shield and shoe bracket protect rail
- Dual-action feet with spur plate for use on hard or penetrable surfaces

Fiberglass, Round Rung Straight Ladder, Type IAA, 375-lb. Duty Rating



M7100-1 SERIES
- Round shaped rungs
- 3-ft. replaceable plastic sleeves to avoid rim damage to rail
- Ladder is 12 3/8"W
- Wide hoop feet with rubber pads at bottom

Fiberglass, Manhole Ladder, Type IAA, 375-lb. Duty Rating



D1500-1 SERIES
- Dual-action feet with spur plate for use on hard or penetrable surfaces
- Mar-resistant end caps
- Ladder is 18 1/8"W

Aluminum, D-Rung Straight Ladder, Type 1A, 300-lb. Duty Rating



D6200-1 SERIES
- Dual-action feet with spur plate for use on hard or penetrable surfaces
- Molded rung braces at bottom for increased durability
- Ladder is 19"W

Fiberglass, D-Rung Straight Ladders, Type IA, 300-lb. Duty Rating



S7700 SERIES
- Ideal for manhole use
- Maximum number of 3-sections can be used, each section 6-ft. high
- Lock sections with cam driven tension clamps
- Ladder width 12"
- Requires Shoe No. 41D286 and End Cap No. 41D285, available separately

Fiberglass, Parallel Sectional Ladder, Type I, 250-lb. Duty Rating

WERNER

Specialty Extension and Straight Ladders
- Exclusive ALFLO rung joint connections for twist-proof performance except 9500 Series
- Slip-resistant Traction-Tred® rungs
- Mar-resistant end caps

Series	Industry Ladder Size	Extended Ladder Height	Material	Item No.
Step/Extension				
Type IAA, 375-lb. Duty Rating				
7800	—	12 ft.	Fiberglass	4XN76
	—	12 ft.		41D279
	—	16 ft.		4XN77
Extension				
Type IAA, 375-lb. Duty Rating				
D7100-2LV	20 ft.	17 ft.	Fiberglass	3AZT2
	24 ft.	21 ft.		3AZT3
	28 ft.	25 ft.		3AZT4
	32 ft.	29 ft.		41D254
Type IA, 300-lb. Duty Rating				
9500-2	16 ft.	13 ft.	Fiberglass	3AZT5
	20 ft.	17 ft.		3AZT6
	24 ft.	21 ft.		3AZT7
	28 ft.	25 ft.		3AZT8
	32 ft.	29 ft.		3AZT9
D8200-2EQ	20 ft.	17 ft.		41D268
	24 ft.	21 ft.		41D269
	28 ft.	25 ft.		41D270
Type I, 250-lb. Duty Rating				
560-3	60 ft.	47 ft.	Aluminum	4XN68
D1800-2EQ	16 ft.	13 ft.		1FCF6
	20 ft.	17 ft.		1FCF7
	24 ft.	21 ft.		1FCF8
	28 ft.	25 ft.		1FCF9

Series	Ladder Height	Top Step Height	Material	Item No.
Straight				
Type IAA, 375-lb. Duty Rating				
500-1	8 ft.	8 ft.	Aluminum	41D308
	10 ft.	10 ft.		41D309
	12 ft.	12 ft.		41D310
	14 ft.	14 ft.		41D311
	16 ft.	16 ft.		41D312
7100-1	8 ft.	8 ft.	Fiberglass	41D263
	10 ft.	10 ft.		41D264
	12 ft.	12 ft.		41D265
	14 ft.	14 ft.		41D266
	16 ft.	16 ft.		41D267
M7100-1	8 ft.	4 ft.		3AZV4
	10 ft.	6 ft.		3AZV5
	12 ft.	8 ft.		3AZV6
	14 ft.	10 ft.		3AZV7
	16 ft.	12 ft.		3AZV8
Type IA, 300-lb. Duty Rating				
500-1	18 ft.	18 ft.	Aluminum	41D313
	20 ft.	20 ft.		41D314
	24 ft.	24 ft.		41D315
D1500-1	8 ft.	4 ft.		3AZU7
	10 ft.	6 ft.		3AZU8
	12 ft.	8 ft.		3AZU9
	14 ft.	10 ft.		3AZV1
	16 ft.	12 ft.		3AZV2
	18 ft.	14 ft.		3AZV3
	20 ft.	20 ft.		41D316
D6200-1	8 ft.	4 ft.	Fiberglass	2EJG2
	10 ft.	6 ft.		2EJG3
	12 ft.	8 ft.		2EJG4
	14 ft.	10 ft.		2EJG5
	16 ft.	12 ft.		2EJG6
	20 ft.	16 ft.		2EJG7
Sectional				
Type I, 250-lb. Duty Rating				
S7700	6 ft.	6 ft.	Fiberglass	41D284

Find more information on choosing the right ladder on page 1024.


No. 2KFG7


No. 4HXA4


No. 44YY25


No. 4XN47


No. 494H01

Utility Step Stools

XTEND + CLIMB®
Lighter weight. Fold to 4½"W.

WESTWARD®
Fold for easy transport and storage.

LOUISVILLE®
Tilt and roll feature. Fold to 5"W.

GA
Nonslip ribbed treads. Fold to 5"W.

WERNER®
Nonslip ribbed treads. Fold to 3"W.

No. of Steps	Top Step Height	Material	Brand	Item No.
Type IAA, 375-lb. Duty Rating				
2	18"	Aluminum	Xtend + Climb	**2KFG4**
3	27"		Xtend + Climb	**2KFG5**
4	35"		Xtend + Climb	**2KFG6**
5	43"		Xtend + Climb	**2KFG7**
Type IA, 300-lb. Duty Rating				
2	17"	Aluminum	Westward	**44YY25**
2	17"		Louisville	**401M53**
3	26"		Louisville	**401M54**
3	26"		Westward	**44YY13**
4	35"		Westward	**44YY14**
4	35"		Louisville	**401M55**
2	18"	Steel	GA	**12M626**
3	27"		GA	**12M627**

No. of Steps	Top Step Height	Material	Brand	Item No.
Type IA, 250-lb. Duty Rating				
2	19"	Steel	Werner	**45WJ85**
Type III, 200-lb. Duty Rating				
2	23"	Aluminum	Werner	**4XN47**
Type II, 225-lb. Duty Rating				
2	23"	Aluminum	Xtend + Climb	**4HXA4**
3	32"		Xtend + Climb	**4HXA5**
4	43"		Xtend + Climb	**4HXA6**
2	17"	Steel	Werner	**402F15**
2	19"		Werner	**402F16**
Type I, 250-lb. Duty Rating				
3	28"	Steel	Werner	**494H01**
2	21"	Aluminum	Werner	**494H02**
3	30½"		Werner	**494H03**

Step Stands and Work Stands

Step Stands—Extra-wide feet keep stools stable on uneven surfaces. 6"D steps and side rail.

Work Stands—Allow 1 or 2 people to climb up either side. 30"W step.

No. of Steps	Overall Height	Brand	FIBERGLASS Item No.	ALUMINUM Item No.
Step Stands				
Type IAA, 375-lb. Duty Rating				
2	24"	Louisville	**24VT74**	**24VT75**
2	24"	Werner	**3LW39** *	**5W216** *
3	36"	Werner	**3LW40** *	**6W705** *
Type IA, 300-lb. Duty Rating				
2	24"	Werner	**3AZU6**	**4XN38**
2	24"	Louisville	**1CMV5**	**1CMV4**
2	24"	Westward	—	**49DJ45**
2	24"	Werner	**4XP47**	—
3	24"	Werner	—	**4XP46**
Type I, 250-lb. Duty Rating				
2	24"	Werner	**4XN69**	—
2	24"	Westward	**44YY53**	—
Type II, 225-lb. Duty Rating				
1	11½"	Xtend + Climb	—	**12M634**
Work Stands				
Type IA, 300-lb. Duty Rating				
2	24"	Werner	**3AZU4**	**3AZU1**
2	25¼"	Louisville	—	**36Y489**
3	36"	Werner	**3AZU5**	**3AZU2**
3	37¼"	Louisville	—	**36Y490**
4	48"	Werner	—	**3AZU3**
4	49¼"	Louisville	—	**36Y491**

** Once locking mechanism is engaged, it stays open permanently.*


No. 44YY53


No. 1CMV5


No. 3AZU4


No. 3LW39


No. 38R202


No. 48WH89


No. 38R232


No. 38R218


No. 49FD27


No. 38R221

General Aerial Work Platforms

Genie® A TEREX BRAND

AWP™ Series—These platforms feature user-friendly controls with auxiliary platform lowering. Designed with durable, exclusive Genie® mast system and rocker base system for easy maneuvering around and over obstacles. Small outrigger allows for positioning close to walls. Use with Super Straddle accessory No. 38R201 to work over fixed seating.

Boom Lift Series—Provide the ultimate versatility in positioning capabilities, giving a wide range of motion allowing above and below rotation for precise positioning. Works in tight spaces, as well as those difficult to reach, and hard-to-access work areas. Offer quiet emission-free operation in most sensitive work environments.

IWP™ Series—Industrial work platforms have a rigid aluminum mast designed for strength, reliability, and low maintenance. No outriggers are needed due to automatic level sensing with integrated leveling jacks. Designed with auxiliary platform-lowering feature on both platform and ground controls.

GR™ and GRC™ Series—GR™ Runabout Series are compact, low-weight self-propelled machines. Feature zero inside turning radius, 30% gradeability, and proportional lift and drive controls. GRC™ Runabout Contractor Series feature tube-in-tube telescoping steel mast and steel platform. Lifts will drive when fully elevated, providing access to all major components for convenient servicing.

Aerial Work Platform Course No. 45JJ77—Genie® Lift Pro™ online operator training is a high-quality, professional-grade program that is delivered through a web-based platform and is designed to satisfy the general training requirements for aerial work platforms as defined by ANSI, OSHA, and CSA.

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	AC POWER Item No.	DC POWER Item No.
AWP Series Lifts						
20 ft.	26 ft. 1"	350 lb.	49"	29"	**38R202**	**38R203**
24 ft. 11"	30 ft. 11"	350 lb.	51½"	29"	**38R204**	**38R205**
29 ft. 6"	36 ft. 5"	350 lb.	53"	29"	**38R206**	**38R207**
36 ft. 5"	42 ft. 5"	350 lb.	55"	29"	**38R208**	**38R209**
40 ft. 4"	46 ft. 4"	300 lb.	56"	29"	**38R210**	**38R211**
Boom Lift Series						
29 ft. 2"	36 ft.	500 lb.	144"	47"	—	**48WH86** *
30 ft.	36 ft.	500 lb.	138"	47"	—	**48WH85**
32 ft. 10"	39 ft.	500 lb.	164"	59"	—	**48WH87**
34 ft. 6"	40 ft.	500 lb.	165"	58"	—	**48WH88**
40 ft. 5"	46 ft.	500 lb.	257"	59"	—	**48WH89**
40 ft. 5"	46 ft.	500 lb.	257"	59"	—	**48WH90** *
IWP Series Lifts						
20 ft. 3"	26 ft. 3"	350 lb.	60"	32"	**38R232**	**38R233**
24 ft. 11"	30 ft. 11"	350 lb.	60"	32"	**38R235**	**38R236**
29 ft. 6"	35 ft. 6"	350 lb.	60"	40"	**38R238**	**38R239**

**** Includes rotating jib.***

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	AC POWER Item No.	DC POWER Item No.
IWP Series Lifts w/ Power Assist						
20 ft. 3"	26 ft. 3"	350 lb.	60"	32"	—	**38R234**
24 ft. 11"	30 ft. 11"	350 lb.	60"	32"	—	**38R237**
29 ft. 6"	35 ft. 6"	350 lb.	60"	40"	—	**38R240**
GR Series Lifts						
11 ft. 4"	17 ft. 5"	500 lb.	53"	29½"	—	**38R218**
14 ft. 8"	20 ft. 8"	500 lb.	53"	29½"	—	**38R219**
19 ft. 9"	25 ft. 11"	350 lb.	53"	31½"	—	**38R220**
19 ft. 9"	25 ft. 11"	350 lb.	53"	32"	—	**49FD27**
GRC Series Lifts						
12 ft.	18 ft.	500 lb.	54"	29½"	—	**38R221**
Accessories						
Aerial Work Platform Super Straddle						**38R201**
Aerial Work Platform Course						**45JJ77**


No. 38R222


No. 38R226

Slab Scissor Lifts

Genie® A TEREX BRAND

- Meet ANSI A92.3, CSA B354.1, EN 280, AS1418.10

Environmentally friendly electric lifts release no emissions and onboard diagnostics make troubleshooting easy. Ideal for maneuvering in tight spaces around indoor and outdoor construction with solid, nonmarking tires. Also used for maintenance and installation applications on firm, level surfaces. All lifts except No. 38R226 feature a 39" roll-out platform extension, proportional controls for drive functions, multiple disc brakes, emergency stop at platform and ground controls, and AC power to platform.

No. 38R226—This scissor lift gains access to even loftier jobs, providing working heights up to 38 ft. while fitting into spaces as narrow as 32"W. Features self-leveling outrigger that levels the lift on uneven ground up to 5º side to side.

Max. Platform Height	Max. Drive Height	Work Height	Load Capacity	Overall Length	Overall Width	Max. Speed Lowered	Max. Speed Elevated	Item No.
Slab Scissor Lifts w/ Single Door Access								
15 ft.	15 ft.	21 ft.	600 lb.	72"	30"	2½ mph	½ mph	**38R222**
19 ft.	19 ft.	25 ft.	500 lb.	72"	30"	2½ mph	½ mph	**38R229**
20 ft.	20 ft.	26 ft.	800 lb.	96"	32"	2.2 mph	½ mph	**38R230**
26 ft.	26 ft.	32 ft.	500 lb.	96"	32"	2.2 mph	½ mph	**38R224**
32 ft.	22 ft.	38 ft.	500 lb.	96"	32"	2.2 mph	½ mph	**38R226**
Slab Scissor Lifts w/ Double-Door Access								
20 ft.	20 ft.	26 ft.	1200 lb.	96"	46"	2.2 mph	½ mph	**38R223**
26 ft.	26 ft.	32 ft.	1000 lb.	96"	46"	2.2 mph	½ mph	**38R231**
32 ft.	32 ft.	38 ft.	700 lb.	96"	46"	2.2 mph	½ mph	**38R227**

Personnel and Merchandise Lifts

PERSONNEL LIFTS

Ballylifts

Totally enclosed platform has built-in ladder with flat, skid-resistant treads and grab rails provides access to platform in fully lowered position while antiskid rungs provide access to platform when lift is raised. Features leveling jacks secure lift to floors and uneven surfaces. No. 8ADE3 is a cantilevered platform with aluminum deck. No. 8WZ64 has a standard platform.

MR Lifts

Roomy 28" x 36" enclosed platform accommodates 2 workers and has built-in ladder with flat, skid-resistant treads and grab rails. Features leveling jacks help secure lift to floor and also compensates for uneven surfaces. Self-storing outriggers extend from base to provide stability. Rails fold for doorway passages and storage.

Drivable and Pushable Vertical Mast Lifts

These lifts holds 1 person and are ideal for work on overhead lighting and ceiling maintenance. No. 53DN39 reaches a platform height of 18 ft. and No. 38GT54 reaches a platform height of 30 ft.

MERCHANDISE LIFTS

Power Stocker

- Nos. 26X075 and 26X077 include a safety sensor

Ground-entry, drivable and pushable hydraulic order pickers raise merchandise to shelf level and allow merchandise to slide off easily to minimize lifting. No outriggers are required. Floor locks on pushable models secure the lift in place. High-quality controls for additional safety and ease-of-use. Guardrails are removable, making loading and unloading easy. Recharge using a standard 110V outlet. Charger cord included.



With Riggers, No. 38GT54



No. 8RL02



No. 26X076

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	Platform Depth	Platform Width	Outrigger Footprint L	Outrigger Footprint W	Power Source	With Outriggers	Item No.*
Ballylift Pushable Standard and Cantilevered Single Worker Personnel Lifts											
14 ft.	20 ft.	300 lb.	65"	32"	64"	20"	65"	68"	Hydraulic Hand Pump	Yes	**8ADE3**
15 ft.	21 ft.	300 lb.	65"	32"	20"	28"	65"	68"	Hydraulic Hand Pump	Yes	**8WZ64**
MR Lifts Pushable Compact Two Worker Personnel Lifts											
15 ft.	21 ft.	500 lb.	75"	32"	28"	36"	75"	76"	120 VAC Power	Yes	**8WZ65**
15 ft.	21 ft.	500 lb.	75"	32"	28"	36"	75"	76"	12 VDC battery	Yes	**9ADJ0**
19 ft. 3"	25 ft.	500 lb.	75"	32"	28"	36"	75"	76"	120 VAC Power	Yes	**8ADE4**
19 ft. 3"	25 ft.	500 lb.	75"	32"	28"	36"	75"	76"	12 VDC battery	Yes	**9WLD4**
23 ft. 8"	30 ft.	500 lb.	75"	32"	28"	36"	75"	76"	12 VDC battery	Yes	**8ADE5**
23 ft. 8"	30 ft.	500 lb.	75"	32"	28"	36"	75"	76"	120 VAC Power	Yes	**9VZY7**
28 ft.	34 ft.	500 lb.	75"	32"	28"	36"	75"	76"	120 VAC Power	Yes	**9WAA7**
28 ft.	34 ft.	500 lb.	75"	32"	28"	36"	75"	76"	12 VDC battery	Yes	**9RTC1**
Drivable Compact Single Worker Vertical Mast Lift											
17 ft. 6"	24 ft.	330 lb.	62"	30"	25"	—	No Outriggers	No Outriggers	Battery	No	**53DN39**
Pushable Compact Single Worker Vertical Mast Lift											
30 ft.	35 ft.	300 lb.	56"	29"	27¼"	—	64"	74"	Battery	Yes	**38GT54**
Power Stocker Pushable Hydraulic Merchandise Lift											
8 ft. 2"	14 ft.	450 lb.	54"	36"	17"	23½"	No Outriggers	No Outriggers	Battery	No	**8RL02**
12 ft. 2"	18 ft.	650 lb.	54"	42"	17"	29"	No Outriggers	No Outriggers	Battery	No	**26X074** †
12 ft. 2"	18 ft.	650 lb.	54"	42"	17"	29"	No Outriggers	No Outriggers	Battery	No	**26X075**
14 ft. 9"	21 ft.	650 lb.	60"	43"	17"	29"	No Outriggers	No Outriggers	Battery	No	**26X076** †
14 ft. 9"	21 ft.	650 lb.	60"	43"	17"	29"	No Outriggers	No Outriggers	Battery	No	**26X077**
Power Stocker Drivable Hydraulic Merchandise Lift											
12 ft.	18 ft.	650 lb.	60"	42"	19"	—	No Outriggers	No Outriggers	DC	No	**46CF80**

Standard delivery requires capability to unload from commercial carrier truck. Call 1-800-GRAINGER (472-4643) for information on delivery requirements. † Ergonomic friendly.

Portable Personnel Lifts

- **Safer, more versatile alternative to ladders and scaffolding**
- **330-lb. capacity**
- **Includes tool tray**

The LiftPod® is easily disassembled to fit in the back of a pickup truck while the Ecolift's patented stored power system raises and lowers the platform quietly without batteries or hydraulics. Ideal for plant and facility maintenance and various contractor applications.



No. 34AZ74



No. 52XE87

Max. Platform Height	Work Height	Overall Length	Overall Width	Platform Depth	Gross Vehicle Weight	Item No.*
LiftPod FT Series						
7 ft.	13 ft.	45"	30"	24"	191 lb.	**34AZ73**
13 ft. 6"	20 ft.	58"	64"	24"	264 lb.	**34AZ74**
13 ft. 6"	20 ft.	58"	64"	24"	326 lb.	**53VL58**

Max. Platform Height	Work Height	Overall Length	Overall Width	Platform Depth	Gross Vehicle Weight	Item No.*
EcoLift Series						
4 ft. 9"	11 ft.	39"	28"	28"	397 lb.	**52XE86**
7 ft. 2"	13 ft.	50"	29"	33"	672 lb.	**52XE87**
Accessories						
Battery Pack For Use With No. 34AZ73						**34AZ75**

Standard delivery requires capability to unload from commercial carrier truck. Call 1-800-GRAINGER (472-4643) for information on delivery requirements.

Drivable Scissor Lifts and Pushable Mini Scissor Lifts

- **No outriggers required**
- **Meet ANSI Standards**

Easy-to-operate with joy stick control and feature emergency stop button and lowering system. Pushable, ground entry, 12VDC, lifts are designed with a slim base for access to tight areas. Recharge using a standard 110V outlet. Power unit stored in lockable slide out drawer and comes with battery charge indicator. Drivable scissor lifts have extendable cantilever platforms, minimizes the strains from pushing lifts, providing additional access to machinery and equipment. Also, drivable at full heights and have a battery power source.



No. 26X078

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	Overall Height	Platform Depth	Platform Width	Item No.
Pushable								
9 ft. 10"	16 ft.	500 lb.	51"	31"	70"	46"	24"	**26X078**
12 ft. 9"	19 ft.	500 lb.	51"	31"	74"	46"	24"	**26X079**
Drivable								
10 ft.	16 ft.	500 lb.	46"	30"	73"	46"	28"	**45FF19**
12 ft.	19 ft.	500 lb.	46"	30"	77"	46"	28"	**45FF20**
19 ft.	25 ft.	500 lb.	74"	30"	86"	66"	29"	**45FF21**
26 ft.	32 ft.	500 lb.	98"	32"	92"	90"	32"	**45FF22**
26 ft.	32 ft.	1000 lb.	98"	46"	92"	90"	44"	**53DN31**
32 ft.	40 ft.	700 lb.	98"	46"	96"	90"	44"	**53DN32**
40 ft. 4"	46 ft.	550 lb.	98"	47"	102"	90"	44"	**53DN33**
45 ft.	51 ft.	500 lb.	112"	55"	102"	104"	44"	**53DN38**

Features to Consider When Choosing a Rolling Ladder or Work Platform

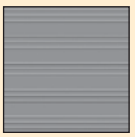
TREAD

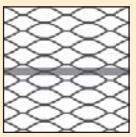
Use the chart to find the right tread material for your work environment.

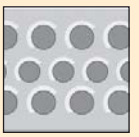
Tread Types:

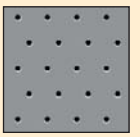
FEATURE	SERRATED	PERFORATED/ OPEN GRIP	EXPANDED METAL	RUBBER MAT/ ABRASIVE MAT/ ANTISLIP VINYL	RIBBED (ALUMINUM)	RECOMMENDED USE
Aggressive Slip-Resistance	●					Ideal in the harshest enviornments where liquids are present and other materials that can create buildup on the tread including grease, oil, and other debris.
Maximum Drainage & Self-Cleaning Properties			●			The most open tread design that provides maximum drainage and self-cleaning properties.
Good Slip-Resistance & Drainage Properties		●				The most common tread used and ideal in most environments. Upward holes provide excellent slip-resistance and downward slots provide good drainage of liquids (exclusive to Tri-Arc).
Durability & Longest Lasting	●	●				Utilize the most material making these treads able to withstand the constant use over time and extending the life of the ladder and keeping it safe for use.
Least Aggressive Environments (offices, backrooms, retail store floors, etc.)				●	●	These solid treads provide slip-resistance properties that are ideal in environments where all types of shoes can be worn and where there are not liquids and other debris found.

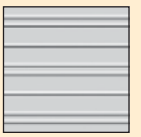

Abrasive Mat


Antislip Vinyl

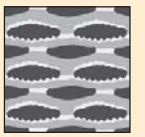

Expanded Metal


Open Grip


Perforated


Ribbed


Rubber Mat


Serrated


PLATFORM HEIGHT
Subtract 5- to 6-ft. from desired working height.


OVERALL HEIGHT
Consider ceiling or overhead obstructions.

FEATURES TO CONSIDER WHEN CHOOSING A ROLLING LADDER OR WORK PLATFORM

When selecting a rolling ladder, it's important to consider the required access, working height, and load capacity. Understand your space and your needs, as picking the right size or length is just as important as the style you choose.

Load Rating

Load Rating is the maximum weight capacity the ladder can safely carry, including the weight of the user and equipment. Make sure to factor in your tools and protective gear when looking for the right ladder.

Size Considerations

The higher you work, the wider your ladder must be in order to remain safe. Consider working height or height and width limitation on ladder dimensions.

Ladder Actuation

Rolling ladders feature various safety locking mechanisms to make sure your ladder doesn't roll while in use.


BASE DEPTH
Typically the taller the ladder the wider the base. Ladders with a 24"W or smaller base are suitable for use in tight spaces or narrow aisles.


PLATFORM DEPTH
Consider working area.


No. 3UY16

Cotterman® Ballymore SAFETY LADDERS

Steel Rolling Ladders

- Handrails included
- 450-lb. load capacity
- 24" platform width
- Gray
- 59° climbing angle

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Step Lock Actuation	Base Depth	Handrail Height	Brand	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.	ANTISLIP VINYL Item No.
Assembled												
40"	70"	4	10"	30"	Step	31"	30"	Cotterman	1TGW4	4XM31	4XM32	6ZEU1
50"	80"	5	10"	30"	Foot	40"	30"	Cotterman	3UY14 *	4XM33 *	4XM34 *	6ZEU2 *
60"	90"	6	10"	30"	Foot	46"	30"	Cotterman	3UY15 *	4XM35 *	4XM36 *	6ZEU3 *
70"	100"	7	10"	30"	Foot	53"	30"	Cotterman	3UY16 *	4XM37 *	4XM38 *	6ZEU4 *
80"	110"	8	10"	32"	Foot	58"	30"	Cotterman	3UY17 *	4XM39 *	4XM40 *	6ZEU5 *
90"	120"	9	10"	32"	Foot	65"	30"	Cotterman	1TGW5 *	4XM41 *	4XM42 *	6ZEU6 *
100"	130"	10	10"	32"	Foot	72"	30"	Cotterman	3UY18 *	4XM43 *	4XM44 *	6ZEU7 *
110"	140"	11	8"	32"	Foot	78"	30"	Cotterman	—	8E761 *	9ALM3 *	—
110"	140"	11	10"	32"	Foot	78"	30"	Cotterman	45CJ21 *	—	—	45CJ20 *
Unassembled												
40"	70"	4	10"	30"	Step	31"	30"	Cotterman	3UU73	5FYT2	5FYU4	6ZEU8
50"	80"	5	10"	30"	Foot	40"	30"	Cotterman	3UU74 *	5FYT3 *	5FYU5 *	6ZEU9 *
50"	83"	5	14"	32"	Step	43"	30"	Ballymore	9EX52	9LG30	8VY01	—
60"	90"	6	10"	30"	Foot	46"	30"	Cotterman	3UU75 *	5FYT4 *	5FYU6 *	6ZEV0 *
60"	93"	6	14"	32"	Step	49"	30"	Ballymore	9RZV6	8RNE9	9LGH9	—
70"	100"	7	10"	30"	Foot	53"	30"	Cotterman	3UU76 *	5FYT5 *	5FYU7 *	6ZEV1 *
70"	103"	7	14"	32"	Step	55"	30"	Ballymore	9WHG9	8YFK2	8DUP4	—
80"	110"	8	10"	32"	Foot	58"	30"	Cotterman	3UU77 *	5FYT6 *	5FYU8 *	6ZEV2 *
80"	113"	8	14"	32"	Step	61"	30"	Ballymore	8TR84	8PP60	8DZV4	—
90"	120"	9	10"	32"	Foot	67"	30"	Cotterman	5FYV6 *	5FYT7 *	5FYU9 *	6ZEV3 *
90"	123"	9	14"	32"	Step	68"	30"	Ballymore	8DW15	8UX21	9NZW9	—
100"	130"	10	10"	32"	Foot	72"	30"	Cotterman	3UU78 *	5FYT8 *	5FYV0 *	6ZEV4 *
100"	133"	10	14"	32"	Step	74"	30"	Ballymore	9WDN1	8TRP5	8YFL1	—
110"	140"	11	10"	32"	Foot	78"	30"	Cotterman	3UU79 *	5FYT9 *	5FYV1 *	6ZEV5 *
110"	143"	11	14"	32"	Step	80"	30"	Ballymore	8UWZ8	9KDH9	9MH37	—
120"	153"	12	14"	32"	Step	87"	30"	Ballymore	8DYT6	9KD09	8ZFE1	—
120"	162"	12	10"	32"	Foot	88"	42"	Cotterman	3UU80 *	5FYU0 *	5FYV2 *	6ZEV6 *
130"	170"	13	10"	42"	Foot	95"	42"	Cotterman	3UU81 *	5FYU1 *	5FYV3 *	6ZEV7 *
140"	182"	14	10"	42"	Foot	101"	42"	Cotterman	3UU82 *	5FYU2 *	5FYV4 *	6ZEV8 *
150"	192"	15	10"	42"	Foot	108"	30"	Cotterman	—	—	5FYV5 *	—
150"	192"	15	10"	42"	Foot	108"	42"	Cotterman	3UU83 *	5FYU3 *	—	6ZEV9 *

** Ladders for use in California will be modified to comply with California OSHA standards.*

Find more information on Rolling Ladders on page 1034.

Cotterman® Welded Aluminum Rolling Ladders

- Ship assembled
- 350-lb. load capacity
- 14" platform depth
- 59° climbing angle

Up to 50% lighter than comparable steel ladders, aluminum is easy to clean and corrosion-resistant.

4-Step
No. 4XM72



Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Step Lock Actuation	Base Depth	SERRATED Item No.	RIBBED Item No.
With 30"H Handrails								
20"	50"	2	16"	18"	Step	23"	2JYW3	—
	50"	2	24"	26"	Step	23"	2JYX1	—
30"	60"	3	16"	22"	Step	29"	2JYW5	21VE75
	60"	3	24"	30"	Step	29"	4XM71	21VE76
40"	70"	4	16"	22"	Step	36"	2JYW7	21VE78
	70"	4	24"	30"	Step	36"	4XM72	21VE79
50"	80"	5	16"	22"	Step	43"	2JYW8 *	21VE80 *
	80"	5	24"	30"	Step	43"	4XM73 *	21VE81 *
60"	90"	6	16"	24"	Step	50"	2JYW9 *	21VE82 *
	90"	6	24"	30"	Step	50"	4XM74 *	21VE83 *
70"	100"	7	24"	30"	Step	57"	2JYX2 *	21VE84 *
80"	110"	8	24"	30"	Step	63"	2JYX3 *	21VE85 *
Without Handrails								
12"	12"	1	14"	26"	Casters	20"	20Z531	—
20"	20"	2	14"	18"	Casters	23"	2JYW2	—
	20"	2	14"	26"	Casters	23"	20Z532	—
	20"	2	16"	18"	Step	23"	21VE71	—
30"	30"	3	14"	22"	Casters	29"	2JYW4	—
	30"	3	14"	30"	Casters	29"	20Z533	—
	30"	3	16"	22"	Step	29"	—	21VE74
40"	40"	4	24"	30"	Casters	36"	20Z534 †	45CJ71 †
	40"	4	16"	22"	Casters	36"	2JYW6 †	21VE77 †

** Ladders for use in California will be modified to comply with California OSHA Standards.*
† 4-step without handrails not for use in California.

Cotterman® Welded Stainless Steel Rolling Ladders

- Ship assembled
- 450-lb. load capacity
- 10" platform depth
- 59° climbing angle

Type 304 stainless steel construction is ideal for washdown and corrosive environments.

6-Step
No. 3FMJ2



Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Step Lock Actuation	Base Depth	Handrail Height	SERRATED Item No.	EXPANDED METAL Item No.
With Handrails									
20"	50"	2	16"	18"	Step	19"	30"	—	45CH96
30"	60"	3	16"	20"	Step	27"	30"	45CJ01	45CH71
	60"	3	24"	30"	Step	27"	30"	45CJ49	45CJ73
40"	70"	4	16"	20"	Step	31"	30"	5FYP9 *	5FYR5 *
	70"	4	24"	30"	Step	31"	30"	45CH55	45CH53
50"	80"	5	24"	30"	Foot	40"	30"	5FYR0 *	5FYR6 *
	80"	5	16"	20"	Foot	39"	30"	45CJ04 *	45CJ06 *
60"	90"	6	24"	30"	Foot	46"	30"	3FMJ2 *	5FYR7 *
	90"	6	16"	24"	Foot	46"	30"	45CJ84 *	45CH94 *
70"	100"	7	24"	30"	Foot	53"	30"	5FYR1 *	5FYR8 *
80"	110"	8	24"	32"	Foot	58"	30"	3FMJ3 *	5FYR9 *
90"	120"	9	24"	32"	Foot	65"	30"	5FYR2 *	5FYT0 *
100"	130"	10	24"	32"	Foot	72"	30"	3FMJ4 *	5FYT1 *
110"	140"	11	24"	32"	Foot	81"	30"	45CH60 *	45CJ47 *
120"	162"	12	24"	32"	Foot	88"	42"	45CJ42 *	45CJ38 *
Without Handrails									
20"	20"	2	10"	18"	Casters	19"	—	5FYP7	5FYR3
30"	30"	3	10"	20"	Casters	26"	—	5FYP8	5FYR4

** Ladders for use in California will be modified to comply with California OSHA Standards.*

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Bottom Width	Base Depth	Handrail Height	Brand	PERFORATED Item No.	SERRATED Item No.	EXPANDED METAL Item No.
50° Climbing Angle											
60"	90"	6	800 lb.	12"	30"	60"	30"	Cotterman	3UU97 *	5FZA2 *	5FYZ3 *
	90"	6	800 lb.	24"	30"	72"	30"	Cotterman	20Z444 *	20Z443 *	20Z442 *
	96"	6	600 lb.	17"	35"	66"	36"	Tri-Arc	4RCN4 *	4RCP2 *	—
70"	100"	7	800 lb.	12"	30"	69"	30"	Cotterman	3UU98 *	5FZA3 *	5FYZ4 *
	100"	7	800 lb.	24"	30"	81"	30"	Cotterman	20Z447 *	20Z446 *	20Z445 *
	106"	7	600 lb.	17"	35"	74"	36"	Tri-Arc	4RCN5 *	4RCP3 *	—
80"	110"	8	800 lb.	12"	32"	78"	30"	Cotterman	3UU99 *	5FZA4 *	5FYZ5 *
	110"	8	800 lb.	24"	32"	90"	30"	Cotterman	20Z450 *	20Z449 *	20Z448 *
	116"	8	600 lb.	17"	35"	82"	36"	Tri-Arc	4RCN6 *	4RCP4 *	—
90"	120"	9	800 lb.	12"	32"	88"	30"	Cotterman	5FZC1 *	5FZC3 *	5FZC2 *
	120"	9	800 lb.	24"	32"	100"	30"	Cotterman	20Z453 *	20Z452 *	20Z451 *
	126"	9	600 lb.	17"	35"	91"	36"	Tri-Arc	4RCN7 *	4RCP5 *	—
100"	130"	10	800 lb.	12"	32"	97"	30"	Cotterman	3UU84 *	5FZA5 *	5FYZ6 *
	130"	10	800 lb.	24"	32"	109"	30"	Cotterman	20Z456 *	20Z455 *	20Z454 *
	136"	10	600 lb.	17"	35"	99"	36"	Tri-Arc	4RCN8 *	4RCP6 *	—
110"	140"	11	800 lb.	12"	32"	106"	30"	Cotterman	3UU85 *	5FZA6 *	5FYZ7 *
	140"	11	800 lb.	24"	32"	118"	30"	Cotterman	20Z459 *	20Z458 *	20Z457 *
	146"	11	600 lb.	17"	35"	107"	36"	Tri-Arc	4RCN9 *	4RCP7 *	—
120"	156"	12	600 lb.	17"	35"	116"	36"	Tri-Arc	4RCP1 *	4RCP8 *	—
	162"	12	800 lb.	12"	32"	116"	42"	Cotterman	3UU86 *	5FZA7 *	5FYZ8 *
	162"	12	800 lb.	24"	32"	128"	42"	Cotterman	20Z462 *	20Z461 *	20Z460 *
130"	172"	13	800 lb.	12"	42"	125"	42"	Cotterman	3UU87 *	5FZA8 *	5FYZ9 *
	172"	13	800 lb.	24"	42"	137"	42"	Cotterman	20Z465 *	20Z464 *	20Z463 *
140"	182"	14	800 lb.	12"	42"	134"	42"	Cotterman	3UU88 *	5FZA9 *	5FZA0 *
	182"	14	800 lb.	24"	42"	146"	42"	Cotterman	20Z468 *	20Z467 *	20Z466 *
150"	192"	15	800 lb.	12"	42"	143"	42"	Cotterman	3UU89 *	5FZC0 *	5FZA1 *
	192"	15	800 lb.	24"	42"	155"	42"	Cotterman	20Z471 *	20Z470 *	20Z469 *
56° Climbing Angle											
60"	96"	6	600 lb.	10"	35"	50"	36"	Tri-Arc	2NJV4 *	2NJW2 *	—
70"	106"	7	600 lb.	10"	35"	57"	36"	Tri-Arc	2NJV5 *	2NJW3 *	—
80"	116"	8	600 lb.	10"	35"	64"	36"	Tri-Arc	2NJV6 *	2NJW4 *	—
90"	126"	9	600 lb.	10"	35"	69"	36"	Tri-Arc	2NJV7 *	2NJW5 *	—
100"	136"	10	600 lb.	10"	35"	76"	36"	Tri-Arc	2NJV8 *	2NJW6 *	—
110"	146"	11	600 lb.	10"	35"	83"	36"	Tri-Arc	2NJV9 *	2NJW7 *	—
120"	156"	12	600 lb.	10"	35"	90"	36"	Tri-Arc	2NJW1 *	2NJW8 *	—

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Bottom Width	Base Depth	Handrail Height	Brand	SERRATED Item No.	PERFORATED Item No.
59° Climbing Angle										
50"	92"	5	1000 lb.	24"	37"	56"	42"	Cotterman	46C330	46C338
60"	102"	6	1000 lb.	24"	37"	62"	42"	Cotterman	46C331	46C339
70"	112"	7	1000 lb.	24"	37"	68"	42"	Cotterman	46C332	46C340
80"	122"	8	1000 lb.	24"	37"	74"	42"	Cotterman	46C333	46C341
90"	132"	9	1000 lb.	24"	37"	80"	42"	Cotterman	46C334	46C342
100"	142"	10	1000 lb.	24"	37"	86"	42"	Cotterman	46C335	46C343
110"	152"	11	1000 lb.	24"	42"	92"	42"	Cotterman	46C336	46C344
120"	162"	12	1000 lb.	24"	42"	98"	42"	Cotterman	46C337	46C345

** Ladders for use in California will be modified to comply with California OSHA Standards.*



7-Step
No. 4RCN5



7-Step
No. 46C332

Cotterman® TRI-ARC SIGNATURE SERIES™ Heavy-Duty Steel Rolling Ladders

- Handrails available
- Ship unassembled
- 24" platform width
- 50° and 56° ladders are gray; 59° are gray/yellow
- Foot-activated step lock

50°, 56°, and 59° climbing angles for easy forward descent.

Description	Brand	Item No.
Gate Options for Extra Heavy-Duty Rolling Ladders		
Front Gate	Cotterman	29JU21
Rear Side Gate	Cotterman	29JU24



8-Step
No. 1CJH2

Cotterman® TRI-ARC SIGNATURE SERIES™
Deep Top Steel Rolling Ladders with 20" and 30" Deep Platforms

- Handrails included
- 450-lb. load capacity
- Gray
- Cotterman: 59° climbing angle
- Tri-Arc: 56° climbing angle

Large depth top platform provides ample safe working space.

No. of Steps	Step Width	Handrail Height	Platform Height	Overall Height	Bottom Width	Base Depth	Brand	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
20" Platform Depth										
Assembled										
2	24"	30"	20"	50"	26"	28"	Cotterman	36LH53	21UP55	21UP57
4	24"	30"	40"	70"	30"	41"	Cotterman	5FYV7	5FYW4	5FYX1
5	24"	30"	50"	80"	30"	50"	Cotterman	5FYV8 *	5FYW5 *	5FYX2 *
6	24"	30"	60"	90"	30"	56"	Cotterman	5FYV9 *	5FYW6 *	5FYX3 *
7	24"	30"	70"	100"	30"	63"	Cotterman	5FYW0 *	5FYW7 *	5FYX4 *
8	24"	30"	80"	110"	32"	71"	Cotterman	5FYW1 *	5FYW8 *	5FYX5 *
9	24"	30"	90"	120"	32"	77"	Cotterman	5FYW2 *	5FYW9 *	5FYX6 *
10	24"	30"	100"	130"	32"	84"	Cotterman	5FYW3 *	5FYX0 *	5FYX7 *
11	24"	30"	110"	140"	32"	91"	Cotterman	45CJ81 *	—	45CH95 *
12	24"	42"	120"	162"	32"	98"	Cotterman	45CH91 *	45CH98 *	45CJ57 *
Unassembled										
2	16"	36"	20"	56"	21"	31"	Tri-Arc	25NW16	—	25NW13
2	24"	36"	20"	56"	28"	31"	Tri-Arc	25NW22	—	25NW19
3	16"	36"	30"	66"	24"	38"	Tri-Arc	25NW28	—	25NW25
3	24"	36"	30"	66"	30"	38"	Tri-Arc	25NW34	—	25NW31
4	16"	36"	40"	76"	24"	45"	Tri-Arc	25NW40	—	25NW37
4	24"	36"	40"	76"	30"	45"	Tri-Arc	25NW46	—	25NW43
5	16"	36"	50"	86"	24"	52"	Tri-Arc	25NW52 *	—	25NW49 *
5	24"	30"	50"	80"	30"	50"	Cotterman	20Z196 *	20Z219 *	20Z208 *
5	24"	36"	50"	86"	30"	52"	Tri-Arc	25NW58 *	—	25NW55 *
6	16"	36"	60"	96"	27"	60"	Tri-Arc	25NW64 *	—	25NW61 *
6	24"	30"	60"	90"	30"	56"	Cotterman	20Z197 *	20Z220 *	20Z209 *
6	24"	36"	60"	96"	35"	60"	Tri-Arc	1CJG9 *	—	1CJH9 *
7	16"	36"	70"	106"	27"	67"	Tri-Arc	25NW72 *	—	25NW69 *
7	24"	30"	70"	100"	30"	63"	Cotterman	20Z198 *	20Z221 *	20Z210 *
7	24"	36"	70"	106"	35"	67"	Tri-Arc	1CJH1 *	—	1CJJ1 *
8	24"	30"	80"	110"	32"	68"	Cotterman	20Z199 *	20Z222 *	20Z211 *
8	24"	36"	80"	116"	35"	74"	Tri-Arc	1CJH2 *	—	1CJJ2 *
9	24"	30"	90"	120"	32"	75"	Cotterman	20Z201 *	20Z223 *	20Z212 *
10	24"	30"	100"	130"	32"	82"	Cotterman	20Z202 *	20Z224 *	20Z213 *
10	24"	36"	100"	136"	35"	86"	Tri-Arc	1CJH3 *	—	1CJJ3 *
11	24"	30"	110"	140"	32"	88"	Cotterman	20Z203 *	20Z225 *	20Z214 *
11	24"	36"	110"	146"	35"	93"	Tri-Arc	1CJH4 *	—	1CJJ4 *
12	24"	36"	120"	156"	35"	100"	Tri-Arc	1CJH5 *	—	1CJJ5 *
12	24"	42"	120"	162"	32"	98"	Cotterman	20Z204 *	20Z226 *	20Z215 *
13	24"	36"	130"	166"	40"	106"	Tri-Arc	1CJH6 *	—	1CJJ6 *
13	24"	42"	130"	172"	42"	105"	Cotterman	20Z205 *	20Z227 *	20Z216 *
14	24"	36"	140"	176"	40"	113"	Tri-Arc	1CJH7 *	—	1CJJ7 *
14	24"	42"	140"	182"	42"	111"	Cotterman	20Z206 *	20Z228 *	20Z217 *
15	24"	36"	150"	186"	40"	120"	Tri-Arc	1CJH8 *	—	1CJJ8 *
15	24"	42"	150"	192"	42"	118"	Cotterman	20Z207 *	20Z229 *	20Z218 *
30" Platform Depth										
Assembled										
4	24"	30"	40"	70"	30"	51"	Cotterman	20Z423	20Z421	20Z422
5	24"	30"	50"	80"	30"	60"	Cotterman	20Z426 *	20Z424 *	20Z425 *
6	24"	30"	60"	90"	30"	66"	Cotterman	20Z429 *	20Z427 *	20Z428 *
7	24"	30"	70"	100"	30"	73"	Cotterman	20Z432 *	20Z430 *	20Z431 *
8	24"	30"	80"	110"	32"	78"	Cotterman	20Z435 *	20Z433 *	20Z434 *
9	24"	30"	90"	120"	32"	85"	Cotterman	20Z438 *	20Z436 *	20Z437 *
10	24"	30"	100"	130"	32"	92"	Cotterman	20Z441 *	20Z439 *	20Z440 *
12	24"	42"	120"	162"	32"	108"	Cotterman	45CH75 *	45CJ48 *	45CH45 *
Unassembled										
5	24"	30"	50"	80"	30"	60"	Cotterman	20Z230 *	20Z252 *	20Z241 *
6	24"	30"	60"	90"	30"	66"	Cotterman	20Z231 *	20Z253 *	20Z242 *
7	24"	30"	70"	100"	30"	73"	Cotterman	20Z232 *	20Z254 *	20Z243 *
8	24"	30"	80"	110"	32"	78"	Cotterman	20Z233 *	20Z255 *	20Z244 *
9	24"	30"	90"	120"	32"	85"	Cotterman	20Z234 *	20Z256 *	20Z245 *
10	24"	30"	100"	130"	32"	92"	Cotterman	20Z235 *	20Z257 *	20Z246 *
10	30"	30"	100"	130"	33"	132"	Cotterman	—	21UX87	21UX90
11	24"	30"	110"	140"	32"	98"	Cotterman	20Z236 *	20Z258 *	20Z247 *
12	24"	36"	120"	156"	35"	110"	Tri-Arc	25NW85	—	25NW84
12	24"	42"	120"	162"	32"	108"	Cotterman	20Z237 *	20Z259 *	20Z248 *
13	24"	42"	130"	172"	42"	115"	Cotterman	20Z238 *	20Z260 *	20Z249 *
14	24"	42"	140"	182"	42"	121"	Cotterman	20Z239 *	20Z261 *	20Z250 *
15	24"	42"	150"	192"	42"	128"	Cotterman	20Z240 *	20Z262 *	20Z251 *
17	30"	42"	170"	212"	50"	234"	Cotterman	—	—	21VA14
19	30"	42"	190"	232"	50"	258"	Cotterman	—	—	21VA15

** Ladders for use in California will be modified to comply with California OSHA Standards.*



4-Step
No. 25NY01

TRI-ARC SIGNATURE SERIES™
Deep Top Welded Aluminum Rolling Ladders

- Handrails are 32"H except Nos. 25NY76 and 25NY73 which are 36"H
- 350-lb. load capacity
- Ship assembled
- Natural finish
- 56° climbing angle

Platform Height	Overall Height	No. of Steps	Platform Depth	Platform Width	Bottom Width	Step Lock Actuation	SERRATED Item No.	RIBBED Item No.
With Handrails								
20"	52"	2	21"	16"	20"	Casters	25NX79	25NX76
	52"	2	21"	24"	29"	Casters	25NX85	25NX82
30"	62"	3	14"	16"	22"	Casters	29RJ87	29RK07
	62"	3	21"	16"	22"	Casters	25NX91	25NX88
	62"	3	21"	24"	29"	Casters	25NX97	25NX94
	62"	3	28"	16"	22"	Casters	25NX92	25NX89
	62"	3	28"	24"	29"	Casters	25NX98	25NX95
40"	72"	4	14"	24"	32"	Casters	29RJ94	—
	72"	4	14"	16"	22"	Casters	29RJ88	—
	72"	4	21"	16"	22"	Casters	25NY04	25NY01
	72"	4	21"	24"	32"	Casters	25NY10	25NY07
	72"	4	28"	16"	22"	Casters	25NY05	25NY02
	72"	4	28"	24"	32"	Casters	25NY11	25NY08
50"	82"	5	14"	24"	32"	Casters	29RJ95	29RK15
	82"	5	21"	16"	22"	Casters	25NY16	25NY13
	82"	5	21"	24"	32"	Casters	25NY22	25NY19
60"	92"	6	21"	16"	26"	Casters	25NY28	25NY25
	92"	6	21"	24"	32"	Casters	25NY34	25NY31
70"	102"	7	21"	16"	26"	Casters	25NY40	25NY37
	102"	7	21"	24"	32"	Casters	25NY46	25NY43
80"	112"	8	21"	24"	36"	Foot	25NY52	25NY49
90"	122"	9	21"	24"	36"	Foot	25NY58	25NY55
100"	132"	10	21"	24"	36"	Foot	25NY64	25NY61
110"	142"	11	21"	24"	38"	Foot	25NY70	25NY67
120"	156"	12	21"	24"	38"	Foot	25NY76	25NY73
Without Handrails								
20"	20"	2	19"	21"	20"	Casters	25NX43	—
	20"	2	19"	21"	31"	Casters	—	25NX40
	20"	2	28"	21"	29"	Casters	25NX49	25NX46
40"	40"	4	14"	24"	32"	Casters	—	29RK05
	40"	4	21"	16"	21"	Casters	25NX67	25NX64
	40"	4	21"	24"	29"	Casters	25NX73	25NX70



6-Step
No. 5MRH8

LOUISVILLE LADDER
Fiberglass Rolling Ladders

- Handrails included
- Ship unassembled
- 300-lb. load capacity
- 17" platform depth
- 24" platform width
- Yellow
- 50° climbing angle
- Foot-activated step lock

Weather-resistant, nonconductive fiberglass is safe for working around electricity.

Platform Height	Overall Height	No. of Steps	Bottom Width	Base Depth	Handrail Height	SERRATED Item No.
38"	80"	4	32⅝"	54¾"	80"	5MRH7
57"	99"	6	32⅝"	71⅞"	99"	5MRH8
95"	137"	10	32⅝"	106⅛"	42"	5MRJ0
114½"	156½"	12	36⅜"	123¼"	42"	5MRJ1

Find more information on Rolling Ladders on page 1034.

Cotterman®

Welded Narrow-Base Steel Rolling Ladders

- 30"H handrails included
- Ship assembled
- 450-lb. load capacity
- 10" platform depth
- 16" platform width
- Gray
- 59° climbing angle



3-Step
No. 3UY12

Platform Height	Overall Height	No. of Steps	Bottom Width	Step Lock Actuation	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
30"	60"	3	20"	Step	26"	3UY12	4XM27	4XM28
40"	70"	4	20"	Step	31"	3UY13	4XM29	4XM30
50"	80"	5	20"	Foot	40"	5FYX8 *	5FYY8 *	5FYY3 *
60"	90"	6	24"	Foot	46"	5FYX9 *	5FYY9 *	5FYY4 *
70"	100"	7	24"	Foot	53"	5FYY0 *	5FYZ0 *	5FYY5 *
80"	110"	8	24"	Foot	58"	5FYY1 †	5FYZ1 †	5FYY6 †
90"	120"	9	24"	Foot	65"	5FYY2 †	5FYZ2 †	5FYY7 †

** Ladders for use in California will be modified to comply with California OSHA Standards.*
† 8- and 9-stepladders are not for use in California.



3-Step
No. 3UY22



7-Step
No. 4XM60



11-Step
No. 20Z387

Cotterman® Easy 50®

Easy Climbing Steel Rolling Ladders with 12" and 24" Deep Platforms

- Handrails included
- 450-lb. load capacity
- Gray

50° climbing angle for easy forward descent.

No. of Steps	Step Width	Handrail Height	Platform Height	Overall Height	Bottom Width	Step Lock Actuation	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
12" Platform Depth										
Assembled										
3	16"	30"	30"	60"	20"	Step	32"	3UY22	4XM49	4XM50
4	16"	30"	40"	70"	20"	Step	40"	1TGW6	4XM51	4XM52
4	24"	30"	40"	70"	30"	Step	40"	3UY23	4XM53	—
4	24"	30"	40"	70"	30"	Casters	40"	—	—	4XM54
5	24"	30"	50"	80"	30"	Foot	51"	3UY24 *	4XM55 *	4XM56 *
6	24"	30"	60"	90"	30"	Foot	60"	3UY25 *	4XM57 *	4XM58 *
7	24"	30"	70"	100"	30"	Foot	69"	3UY26 *	4XM59 *	4XM60 *
8	24"	30"	80"	110"	32"	Foot	78"	3UY27 *	4XM61 *	4XM62 *
9	24"	30"	90"	120"	32"	Foot	88"	1TGW7 *	1TGW9 *	1TGW8 *
10	24"	30"	100"	130"	32"	Foot	97"	3UY28 *	1TGX1 *	3UY29 *
Unassembled										
9	24"	30"	90"	120"	32"	Foot	88"	20Z381 *	20Z379 *	20Z380 *
10	24"	30"	100"	130"	32"	Foot	97"	20Z384 *	20Z382 *	20Z383 *
11	24"	30"	110"	140"	32"	Foot	106"	20Z387 *	20Z385 *	20Z386 *
12	24"	42"	120"	162"	32"	Foot	116"	20Z390 *	20Z388 *	20Z389 *
13	24"	42"	130"	172"	42"	Foot	125"	20Z393 *	20Z391 *	20Z392 *
14	24"	42"	140"	182"	42"	Foot	134"	20Z396 *	20Z394 *	20Z395 *
15	24"	42"	150"	192"	42"	Foot	143"	20Z399 *	20Z397 *	20Z398 *
24" Platform Depth										
Assembled										
3	16"	30"	30"	60"	20"	Step	44"	20Z474	20Z472	20Z473
4	16"	30"	40"	70"	20"	Step	52"	20Z477	20Z475	20Z476
4	24"	30"	40"	70"	30"	Step	52"	20Z480	20Z478	20Z479
5	24"	30"	50"	80"	30"	Foot	63"	20Z483 *	20Z481 *	20Z482 *
6	24"	30"	60"	90"	30"	Foot	72"	20Z486 *	20Z484 *	20Z485 *
7	24"	30"	70"	100"	30"	Foot	81"	20Z489 *	20Z487 *	20Z488 *
8	24"	30"	80"	110"	32"	Foot	90"	20Z492 *	20Z490 *	20Z491 *
9	24"	30"	90"	120"	32"	Foot	100"	20Z495 *	20Z493 *	20Z494 *
Unassembled										
10	24"	30"	100"	130"	32"	Foot	109"	45CJ45 *	45CH61 *	45CH44 *
11	24"	30"	110"	140"	32"	Foot	118"	45CJ03 *	45CJ56 *	45CJ85 *
12	24"	42"	120"	162"	32"	Foot	128"	45CJ15 *	45CJ27 *	45CH49 *
13	24"	30"	130"	172"	42"	Foot	137"	45CJ77 *	45CJ05 *	45CH86 *
14	24"	30"	140"	182"	42"	Foot	146"	45CJ83 *	45CH84 *	45CJ26 *
15	24"	30"	150"	192"	42"	Foot	155"	45CJ86 *	45CJ24 *	45CJ02 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*

Find more information on Rolling Ladders on page 1034.



6-Step
No. 45FF55

TRI-ARC SIGNATURE SERIES™

Gateway Rear-Exit Steel Ladders

- Handrails included
- Ship unassembled
- 450-lb. load capacity
- 24" platform width
- Gray
- Foot-activated step lock

The rear-exit feature allows user to safely exit onto an elevated surface.

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Base Depth	PERFORATED Item No.	SERRATED Item No.
50° Climbing Angle							
60"	102"	6	27"	35"	76"	**45FF75**	**45FF85**
70"	112"	7	27"	35"	84"	**45FF76**	**45FF86**
80"	122"	8	27"	35"	92"	**45FF77**	**45FF87**
90"	132"	9	27"	35"	101"	**45FF78**	**45FF88**
100"	142"	10	27"	35"	109"	**45FF79**	**45FF89**
110"	152"	11	27"	35"	117"	**45FF80**	**45FF90**
120"	162"	12	27"	35"	126"	**45FF81**	**45FF91**
130"	172"	13	27"	40"	134"	**45FF82**	**45FF92**
140"	182"	14	27"	40"	142"	**45FF83**	**45FF93**
150"	192"	15	27"	40"	151"	**45FF84**	**45FF94**
56° Climbing Angle							
60"	102"	6	30"	35"	70"	**45FF55**	**45FF65**
70"	112"	7	30"	35"	77"	**45FF56**	**45FF66**
80"	122"	8	30"	35"	84"	**45FF57**	**45FF67**
90"	132"	9	30"	35"	89"	**45FF58**	**45FF68**
100"	142"	10	30"	35"	96"	**45FF59**	**45FF69**
110"	152"	11	30"	35"	103"	**45FF60**	**45FF70**
120"	162"	12	30"	35"	110"	**45FF61**	**45FF71**
130"	172"	13	30"	40"	116"	**45FF62**	**45FF72**
140"	182"	14	30"	40"	123"	**45FF63**	**45FF73**
150"	192"	15	30"	40"	130"	**45FF64**	**45FF74**



8-Step
No. 1CJJ9

TRI-ARC SIGNATURE SERIES™

Cotterman®
All-Directional Easy-Turn Steel Rolling Ladders

- Handrails included
- 56° ladders ship unassembled; 59° ladders ship assembled
- 450-lb. load capacity
- 10" platform depth
- Gray
- Foot-activated step lock

Ladder turns within its own radius, making it ideal for use in tight and narrow spaces.

Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Base Depth	Handrail Height	Brand	PERFORATED Item No.		SERRATED Item No.	
56° Climbing Angle											
70"	106"	7	24"	35"	57"	36"	Tri-Arc	—		**25NV65**	*
80"	116"	8	24"	35"	64"	36"	Tri-Arc	**1CJJ9**	*	**25NV66**	*
90"	126"	9	24"	35"	69"	36"	Tri-Arc	—		**25NV67**	*
100"	136"	10	24"	35"	76"	36"	Tri-Arc	**1CJK1**	*	**25NV68**	*
110"	146"	11	24"	35"	83"	36"	Tri-Arc	**1CJK2**	*	**25NV69**	*
120"	156"	12	24"	35"	90"	36"	Tri-Arc	**1CJK3**	*	**25NV70**	*
130"	166"	13	24"	40"	96"	36"	Tri-Arc	**1CJK4**	*	**25NV71**	*
140"	176"	14	24"	40"	103"	36"	Tri-Arc	**1CJK5**	*	**25NV72**	*
150"	186"	15	24"	40"	110"	36"	Tri-Arc	**1CJK6**	*	**25NV73**	*
59° Climbing Angle											
80"	110"	8	16"	24"	110"	30"	Cotterman	**21UT73**	*	—	
120"	162"	12	24"	32"	88"	42"	Cotterman	**45CH76**	*	**45CJ66**	*

**** Ladders for use in California will be modified to comply with California OSHA Standards.***



6-Step
No. 15F026

TRI-ARC SIGNATURE SERIES™ U-DESIGN CONFIGURABLE LADDERS

U-Design Configurable Steel Rolling Ladders

- 36"H handrails included
- Ship unassembled
- 450-lb. load capacity
- 24" platform width
- Gray
- Foot-activated step lock

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Base Depth	PERFORATED Item No.	SERRATED Item No.
50° Climbing Angle							
60"	96"	6	17"	35"	66"	**29RJ50**	**29RJ40**
70"	106"	7	17"	35"	74"	**29RJ51**	**29RJ41**
80"	116"	8	17"	35"	82"	**29RJ52**	**29RJ42**
90"	126"	9	17"	35"	91"	**29RJ53**	**29RJ43**
100"	136"	10	17"	35"	99"	**29RJ54**	**29RJ44**
110"	146"	11	17"	35"	107"	**29RJ55**	**29RJ45**
120"	156"	12	17"	35"	116"	**29RJ56**	**29RJ46**
130"	166"	13	17"	40"	124"	**29RJ57**	**29RJ47**
140"	176"	14	17"	40"	132"	**29RJ58**	**29RJ48**
150"	186"	15	17"	40"	141"	**29RJ59**	**29RJ49**
56° Climbing Angle							
60"	96"	6	10"	35"	50"	**15F014**	**15F026**
70"	106"	7	10"	35"	57"	**15F015**	**15F027**
80"	116"	8	10"	35"	64"	**15F016**	**15F028**
90"	126"	9	10"	35"	69"	**15F017**	**15F029**
100"	136"	10	10"	35"	76"	**15F018**	**15F030**
110"	146"	11	10"	35"	83"	**15F019**	**15F031**
120"	156"	12	10"	35"	90"	**15F020**	**15F032**
130"	166"	13	10"	40"	96"	**15F021**	**15F033**
140"	176"	14	10"	40"	103"	**15F022**	**15F034**
150"	186"	15	10"	40"	110"	**15F023**	**15F035**

Description	Item No.	
Deep Top Kit		
Additional 10"L to Platform Depth	**15F036**	
Additional 20"L to Platform Depth	**15F037**	
All-Direction Maneuverability Kit		
For Use With 6- through 12-Step Ladders	**15F040**	†
For Use With 13- through 15-Step Ladders	**15F041**	†
Stock Picking Shelf Kit		
2 50-lb. Cap. Shelves For Use With 6- and 7-Step Ladders	**15F042**	*
3 50-lb. Cap. Shelves For Use With 8- through 15-Step Ladders	**15F043**	*

**** Deep Top Kit is required when ordering Stock Picking Shelf Kit. † All-Direction Maneuverability Kits and Stock Picking Shelf Kits cannot be combined.***

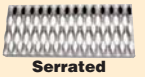
Customize Your U-Design Steel Rolling Ladder

Configure your U-Design Steel Rolling Ladder exactly how you want it. Combine additional features to build a productive ladder for your needs.

Select from 3 Accessory Kits



Perforated



Serrated





- **Deep Top Kits—**Add 10" or 20" of additional length to the platform.
- **All-Direction Maneuverability Kits—** Enable the ladder to turn within its own radius.



- **Stock Picking Shelf Kits—** Add two or three 50-lb. capacity shelves.

Note: All-Direction and Stock Picking Shelf Kits cannot be combined. A Deep Top Kit is required when ordering a Stock Picking Shelf Kit.

Find more information on Rolling Ladders on page 1034.

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Platform Width	Bottom Width	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
Standard Base										
Includes 2½" Rubber Pads										
20"	50"	2	450 lb.	10"	16"	20"	24"	20Z347	20Z343	20Z345
	50"	2	450 lb.	10"	24"	28"	24"	3FMD7	3FMD5	3FMD9
	50"	2	450 lb.	20"	16"	20"	34"	20Z348	20Z344	20Z346
	50"	2	450 lb.	20"	24"	28"	34"	20Z351	20Z349	20Z350
30"	60"	3	450 lb.	10"	16"	20"	30"	20Z356	20Z352	20Z354
	60"	3	450 lb.	10"	24"	28"	30"	3UY30	4XM63	3FME1
	60"	3	450 lb.	20"	16"	20"	41"	20Z357	20Z353	20Z355
	60"	3	450 lb.	20"	24"	28"	41"	20Z360	20Z358	20Z359
40"	70"	4	450 lb.	10"	16"	20"	37"	20Z365	20Z361	20Z363
	70"	4	450 lb.	10"	24"	28"	37"	3UY31	4XM66	3FME2
	70"	4	450 lb.	20"	16"	20"	47"	20Z366	20Z362	20Z364
	70"	4	450 lb.	20"	24"	28"	47"	20Z369	20Z367	20Z368
50"	80"	5	450 lb.	10"	16"	20"	43"	20Z374	20Z370	20Z372
	80"	5	450 lb.	10"	24"	28"	43"	3FMD8 *	3FMD6 *	3FME3 *
	80"	5	450 lb.	20"	16"	20"	53"	20Z375	20Z371	20Z373
	80"	5	450 lb.	20"	24"	28"	54"	20Z378	20Z376	20Z377
Includes Removable Rear Chain										
20"	50"	2	450 lb.	10"	16"	20"	24"	21VA53	21VA45	21VA49
	50"	2	450 lb.	10"	24"	28"	24"	21VA65	21VA57	21VA61
	50"	2	450 lb.	20"	16"	20"	34"	21VA55	21VA47	21VA51
	50"	2	450 lb.	20"	24"	28"	34"	21VA67	21VA59	21VA63
30"	60"	3	450 lb.	10"	16"	20"	31"	21VC01	21VA92	21VA96
	60"	3	450 lb.	10"	24"	28"	31"	21VC13	21VC05	21VC09
	60"	3	450 lb.	20"	16"	20"	41"	21VC03	21VA94	21VA98
	60"	3	450 lb.	20"	24"	28"	41"	21VC15	21VC07	21VC11
40"	70"	4	450 lb.	10"	16"	20"	37"	21VC93	21VC85	21VC89
	70"	4	450 lb.	10"	24"	28"	37"	21VD06	21VC97	21VD02
	70"	4	450 lb.	20"	16"	20"	47"	21VC95	21VC87	21VC91
	70"	4	450 lb.	20"	24"	28"	47"	21VD08	21VC99	21VD04
50"	80"	5	450 lb.	10"	16"	20"	43"	21VD54	21VD46	21VD50
	80"	5	450 lb.	10"	24"	28"	43"	21VD66	21VD58	21VD62
	80"	5	450 lb.	20"	16"	20"	53"	21VD56	21VD48	21VD52
	80"	5	450 lb.	20"	24"	28"	54"	21VD68	21VD60	21VD64
Includes Removable Rear Safety Chain with Snap Hook										
50"	80"	5	450 lb.	10"	24"	28"	43"	36LH58 †	—	—
Straddle Base										
Includes 2½" Rubber Pads										
30"	60"	3	350 lb.	20"	24"	28"	41"	3FME6	3FME4	3FME8
40"	70"	4	350 lb.	20"	24"	28"	47"	3FME7	3FME5	3FME9
Includes Double Handrails										
50"	80"	5	350 lb.	20"	24"	28"	54"	6MXV4 *	6MXV6 *	6MXV8 *
60"	90"	6	350 lb.	20"	24"	28"	60"	6MXV5 *	6MXV7 *	6MXV9 *

** Ladders for use in California will be modified to comply with California OSHA Standards. † Safety Yellow color.*



3-Step Standard Base No. 20Z356



5-Step Straddle Base No. 6MXV6

Cotterman® Welded Steel Tilt-N-Roll® Ladders

- 30"H handrails included
- Ship assembled
- 450-lb. load capacity (standard base); 350-lb. load capacity (straddle base)
- Gray
- 59° climbing angle
- No ladder actuation

Ladder rests solidly on four 2½" rubber pads when climbing. Easily moved by tilting back on 4" wheels with handrails. The balanced design won't allow ladder to scoot away or toward user.

Note: See Grainger.com® for Safety Yellow options.

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Platform Width	Bottom Width	Base Depth	SERRATED Item No.	EXPANDED METAL Item No.
Aluminum									
20"	50"	2	350 lb.	10"	16"	20"	24"	20Z511	—
	50"	2	350 lb.	10"	24"	28"	24"	3FMH7	—
	50"	2	350 lb.	20"	16"	20"	34"	20Z515	—
	50"	2	350 lb.	20"	24"	28"	34"	20Z519	—
30"	60"	3	350 lb.	10"	16"	20"	30"	20Z512	—
	60"	3	350 lb.	10"	24"	28"	30"	3FMH8	—
	60"	3	350 lb.	20"	16"	20"	40"	20Z516	—
	60"	3	350 lb.	20"	24"	28"	40"	20Z520	—
40"	70"	4	350 lb.	10"	16"	20"	37"	20Z513	—
	70"	4	350 lb.	10"	24"	28"	37"	3FMH9	—
	70"	4	350 lb.	20"	16"	20"	47"	20Z517	—
	70"	4	350 lb.	20"	24"	28"	47"	20Z521	—
50"	80"	5	350 lb.	10"	16"	20"	43"	20Z514	—
	80"	5	350 lb.	10"	24"	28"	43"	3FMJ1 *	—
	80"	5	350 lb.	20"	16"	20"	54"	20Z518 *	—
	80"	5	350 lb.	20"	24"	28"	54"	20Z522 *	—
Stainless Steel									
20"	50"	2	450 lb.	10"	24"	28"	24"	20Z527	20Z523
30"	60"	3	450 lb.	10"	24"	28"	30"	20Z528	20Z524
40"	70"	4	450 lb.	10"	24"	28"	37"	20Z529	20Z525
50"	80"	5	450 lb.	10"	24"	28"	43"	20Z530 *	20Z526 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*



No. 3FMH9



No. 20Z530

Cotterman® Welded Aluminum and 304 Stainless Steel Tilt-N-Roll® Ladders

- 30"H handrails included
- Ship assembled
- 59° climbing angle

During climbing, each standard base ladder sits solidly on four 2½" rubber pads for greater stability. Easily moved by tilting back on 4" wheels with handrails. The balanced design won't allow ladder to scoot away or toward user.

Lock-N-Stock Steel Folding Ladders

- 22"H handrails included
- Ship assembled
- 350-lb. load capacity
- 7" platform depth
- 16" platform width
- 24" bottom width
- Blue
- Rear exit on Nos. 3KNK7 and 3KNK8
- 59° climbing angle
- No ladder actuation

Ladders are easy to climb, roll, fold, and store. Lock in folded or climbing positions. Easy-to-maneuver in open or closed position.

Platform Height	Overall Height	No. of Steps	Base Depth	PERFORATED Item No.
19"	41"	2	17"	3KNK7
28½"	50½"	3	23"	3KNK8
38"	60"	4	30"	4UDL5



No. 3KNK8

Find more information on Rolling Ladders on page 1034.

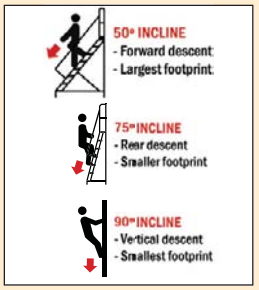
U-Design Configurable Platform Selection Guide

STEP 1

Select an Incline:

Crossover Platforms (CP) and Rooftop Platforms (RP) use 2 ladders paired together. Different inclines are acceptable.

Max-Access Platform Systems (MAPS) use 50° incline stair units/ladders.



STEP 2

Select a Ladder Height:

CP: Choose based on vertical clearance height need for application.

RP: Select a ladder with a height greater than the required height.

MAPS: For crossover applications, deduct 5" for clearance height.

STEP 3

Select a Span or Platform:

CP and RP: Combine 20" and 30" spans to create up to 90" of horizontal clearance. For spans over 90" (CP) or 120" (RP), use a leg kit.

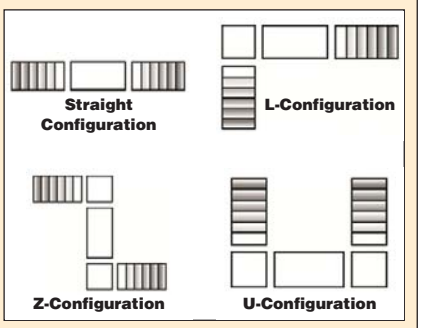
MAPS: Create platform configurations by combining 36" x 36" platforms. A tower support leg is required when 3 platform units are combined.

STEP 4

Select a Crossover Configuration or Support Legs:

CP and RP: Add turn platforms for configurations requiring a 90° turn including L-, Z-, or U-shaped crossovers.

MAPS: A tower support leg is required for each 50° stair unit/ladder.

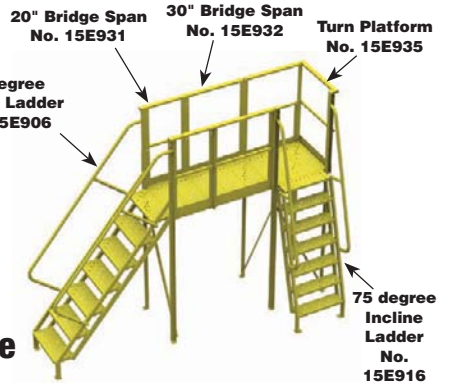


STEP 5

Select Platform Handrails:

MAPS: Add handrails to any side for fall protection. 5-step and larger ladders require handrails on all platform unit sides for code compliance.

A configurator tool is available at Grainger.tri-arc.com/GRconfigurator_login.html



TRI-ARC SIGNATURE SERIES
U-DESIGN CONFIGURABLE LADDERS

Configurable Crossover Platforms

- 1000-lb. load capacity
- 24"W steps
- Clearance height is 2" below platform height

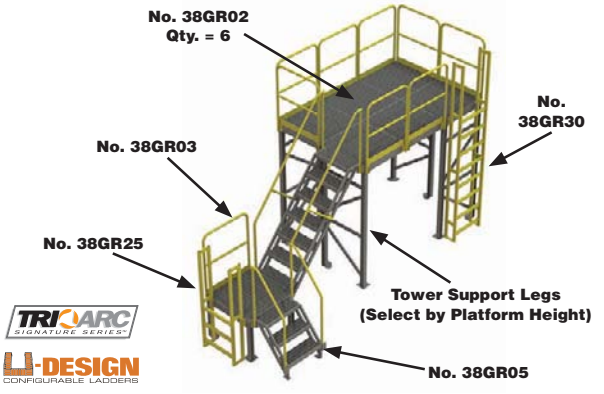
Customize a crossover platform by choosing components based on environment and application requirements. Platforms require minimal assembly, include assembly hardware, and have foot plates for bolting to the floor. Rectangular tubing frame is 1" x 2" and tubing handrails are 1½" dia. Individual pieces are 30"W overall and guardrails are 42"H above platforms. Steel construction with yellow powder-coat finish. Meet OSHA Standards.

No. of Steps	Platform Height	Vert. Clearance	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Incline Ladders				
50° Incline				
3	30"	28"	21Y491	21Y489
4	40"	38"	21Y492	21Y490
5	50"	48"	15E904	15E909
6	60"	58"	15E905	15E910
7	70"	68"	15E906	15E911
8	80"	78"	15E907	15E912
9	90"	88"	15E908	15E913
75° Incline				
3	30"	28"	21Y495	21Y493
4	40"	38"	21Y496	21Y494
5	50"	48"	15E914	15E919
6	60"	58"	15E915	15E920
7	70"	68"	15E916	15E921
8	80"	78"	15E917	15E922
9	90"	88"	15E918	15E923
90° Incline				
3	30"	28"	21Y497	—
4	40"	38"	21Y498	—
5	50"	48"	15E924	—
6	60"	58"	15E925	—
7	70"	68"	15E926	—
8	80"	78"	15E927	—
9	90"	88"	15E928	—

Platform Length	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Bridge Spans		
20"	15E931	15E929
30"	15E932	15E930

Equivalent No. of Steps	Platform Height	Platform Depth	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Turn Platforms				
3-Step	30"	30½"	21Y502	21Y499
4-Step	40"	30½"	21Y503	21Y501
5-Step	50"	30½"	15E933	15E938
6-Step	60"	30½"	15E934	15E939
7-Step	70"	30½"	15E935	15E940
8-Step	80"	30½"	15E936	15E941
9-Step	90"	30½"	15E937	15E942

Description	Ladder Height	Item No.
Crossover Ladder Leg Kits		
3-Step Leg Kit	2 ft. 6"	21Y504
4-Step Leg Kit	3 ft. 4"	21Y505
5-Step Leg Kit	4 ft. 2"	15E943
6-Step Leg Kit	5 ft.	15E944
7-Step Leg Kit	5 ft. 10"	15E945
8-Step Leg Kit	6 ft. 8"	15E946
9-Step Leg Kit	7 ft. 6"	15E947



TRI-ARC SIGNATURE SERIES
U-DESIGN CONFIGURABLE LADDERS

Configurable Max-Access Platforms

- 750-lb. load capacity
- 24"W steps
- Serrated tread
- Aluminum construction
- Gray and yellow powder-coat finish

Max-Access allows you to design your own complete platform and ladder configuration to suit any application. Combine platform units to create desired length and width working surface. Anchor platforms to floor (hardware not included). Meet OSHA Standards.

No. of Steps	Platform Height	Overall Height	Step Width	Step Depth	Item No.
Stair Units - 50° Incline					
2	20"	59½"	26"	9½"	38GR04
3	30"	69½"	26"	9½"	38GR05
4	40"	79½"	26"	9½"	38GR06
5	50"	89½"	26"	9½"	38GR07
6	60"	99½"	26"	9½"	38GR08
7	70"	109½"	26"	9½"	38GR09
8	80"	119½"	26"	9½"	38GR10
9	90"	129½"	26"	9½"	38GR11
10	100"	139½"	26"	9½"	38GR12
Ladder Units - 90° Incline					
2	20"	62"	24"	1⅝"	38GR24
3	30"	72"	24"	1⅝"	38GR25
4	40"	82"	24"	1⅝"	38GR26
5	50"	92"	24"	1⅝"	38GR27
6	60"	102"	24"	1⅝"	38GR28
7	70"	112"	24"	1⅝"	38GR29
8	80"	122"	24"	1⅝"	38GR30
9	90"	132"	24"	1⅝"	38GR31
10	100"	142"	24"	1⅝"	38GR32
11	110"	152"	24"	1⅝"	38GR33

Use With Platform Height	Item No.
Support Leg	
20" H	38GR14
30" H	38GR15
40" H	38GR16
50" H	38GR17
60" H	38GR18

Use With Platform Height	Item No.
70" H	38GR19
80" H	38GR20
90" H	38GR21
100" H	38GR22
110" H	38GR23

Description	Item No.
Platform Unit	
36"W x 36" L, 5" Thickness	38GR02

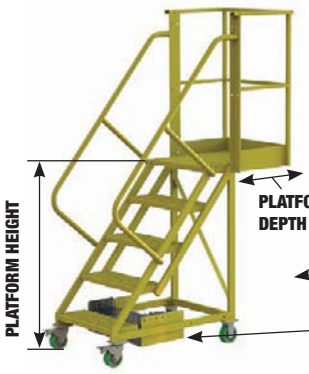
Description	Item No.
Platform Handrail	
42" H x 36" L	38GR03

Configurable Cantilevered Rolling Ladders

TRI-ARC SIGNATURE SERIES™ U-DESIGN CONFIGURABLE LADDERS

- 300-lb. load rating
- Clearance height to floor is 2" less than platform height
- 50° climbing angle
- Unsupported and supported cantilever platforms are available in 20", 30" and 40" depths
- Meet OSHA and ANSI Standards

Design a customized cantilever platform by selecting a model based on environment and application requirements. 5" x 2" polyurethane swivel casters have total-lock brakes. Steps are 24"W. Unsupported models have 30"W overall width; supported models have 41" overall width. Guardrails are 42"H, rectangular tubing frame is 1" x 2", and tubing handrails are 1½" dia. Yellow powder-coat finish. Cantilever Ladder Support Conversion Kits convert unsupported cantilever to supported cantilever.



No. of Steps	Platform Height	Platform Depth	Base Depth	PERFORATED Item No.	SERRATED Item No.
Supported Cantilever					
5	50"	20"	64"	15E948	15E953
	50"	30"	74"	15E958	15E963
	50"	40"	84"	15E968	15E973
6	60"	20"	72"	15E949	15E954
	60"	30"	82"	15E959	15E964
	60"	40"	92"	15E969	15E974
7	70"	20"	81"	15E950	15E955
	70"	30"	91"	15E960	15E965
	70"	40"	101"	15E970	15E975
8	80"	20"	89"	15E951	15E956
	80"	30"	99"	15E961	15E966
	80"	40"	109"	15E971	15E976
9	90"	20"	97"	15E952	15E957
	90"	30"	107"	15E962	15E967
	90"	40"	117"	15E972	15E977

No. of Steps	Platform Height	Platform Depth	Base Depth	PERFORATED Item No.	SERRATED Item No.
Unsupported Cantilever					
5	50"	20"	64"	15E978	15E983
	50"	30"	74"	15E988	15E993
	50"	40"	84"	15E998	15F004
6	60"	20"	72"	15E979	15E984
	60"	30"	82"	15E989	15E994
	60"	40"	92"	15E999	15F005
7	70"	20"	81"	15E980	15E985
	70"	30"	91"	15E990	15E995
	70"	40"	101"	15F001	15F006
8	80"	20"	89"	15E981	15E986
	80"	30"	99"	15E991	15E996
	80"	40"	109"	15F002	15F007
9	90"	20"	97"	15E982	15E987
	90"	30"	107"	15E992	15E997
	90"	40"	117"	15F003	15F008



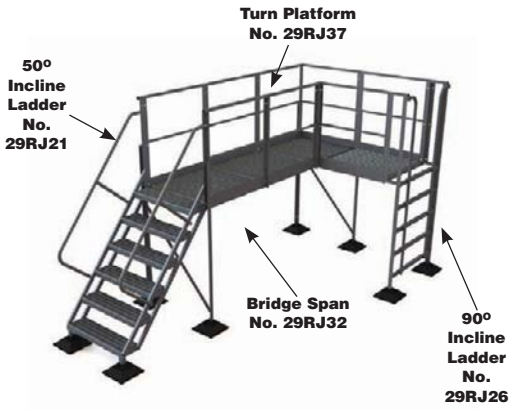
Description	Item No.
Cantilever Ladder Support Conversion Kits	
20" Cantilever Length	15F009
30" Cantilever Length	15F010
40" Cantilever Length	15F011

U-Design Configurable Rooftop Platforms

TRI-ARC SIGNATURE SERIES™ U-DESIGN CONFIGURABLE LADDERS

- 500-lb. load rating
- Aluminum construction
- 1" x 2" rectangular tube construction
- Meet OSHA and ANSI Standards
- Grip strut tread

Easily create safe access over pipes and other rooftop obstacles. Special support feed distributes weight to prevent damage to roof membranes. Combine up to a total of 120" uninhibited span clearance length. A ladder support leg is required for spans greater than 120".



No. of Steps	Vert. Clearance	Overall Height	Top Step Height	Step Depth	Step Width	Item No.
50° Incline						
2	17½"	62"	20"	9½"	36"	29RJ17
3	27½"	72"	30"	9½"	36"	29RJ18
4	37½"	82"	40"	9½"	36"	29RJ19
5	47½"	92"	50"	9½"	36"	29RJ20
6	57½"	102"	60"	9½"	36"	29RJ21
90° Incline						
2	17½"	62"	20"	1⅝"	24"	29RJ22
3	27½"	72"	30"	1⅝"	24"	29RJ23
4	37½"	82"	40"	1⅝"	24"	29RJ24
5	47½"	92"	50"	1⅝"	24"	29RJ25
6	57½"	102"	60"	1⅝"	24"	29RJ26

Vert. Clearance	Overall Height	Platform Dim. H	Platform Dim. W	Platform Dim. L	Item No.
Turn Platforms					
17½"	62"	20"	36"	40"	29RJ33
27½"	72"	30"	36"	40"	29RJ34
37½"	82"	40"	36"	40"	29RJ35
47½"	92"	50"	36"	40"	29RJ36
57½"	102"	60"	36"	40"	29RJ37
Bridge Span					
—	36"	—	38"	40"	29RJ32

Description	Item No.
Support Legs	
For Use With 20" Platform Height Ladder	29RJ27
For Use With 30" Platform Height Ladder	29RJ28
For Use With 40" Platform Height Ladder	29RJ29
For Use With 50" Platform Height Ladder	29RJ30
For Use With 60" Platform Height Ladder	29RJ31
Bridge Span Enclosure	
Kit to Enclose Any Walkway Opening	29RJ38

TRI-ARC SIGNATURE SERIES™ U-DESIGN CONFIGURABLE LADDERS

Configurable Multi-Platform Access Component Systems

- 500-lb. load capacity
- Aluminum construction
- Clearance height is 4" less than platform height
- Assembly hardware included
- ⅜" floor mounting hardware not included

Designed for use with stepladders or extension ladders. Meet OSHA and ANSI Standards.

Stair Units—45° climbing angle. Steps are 24"W x 9½"D and include serrated step tread.

Stair Unit Handrails—Feature 36½" handrail height.



No. of Steps	Overall Height	Overall Width	Item No.
Ladders			
1	18"	29"	53JE68
2	27"	29"	53JE69
3	36"	29"	53JE70
4	45"	29"	53JE71
5	54"	29"	53JE72
6	63"	29"	53JE73
7	72"	29"	53JE74
8	81"	29"	53JE75

For Use With	Item No.
Ladder Handrails	
1-Step Stair Unit	53JE76
2-Step Stair Unit	53JE77
3-Step Stair Unit	53JE78
4-Step Stair Unit	53JE79
5-Step Stair Unit	53JE80
6-Step Stair Unit	53JE81
7-Step Stair Unit	53JE82
8-Step Stair Unit	53JE83

Overall Height	Platform Width	Platform Length	Item No.
Platform Units			
4"	30"	30"	53JE92
4"	30"	60"	53JE93
4"	30"	120"	53JE94

Description	Item No.
Platform Guardrails	
30"L	53JE95
60"L	53JE96

Description	Item No.
Platform Support Legs	
18"H	53JE84
27"H	53JE85
36"H	53JE86
45"H	53JE87
54"H	53JE88
63"H	53JE89
72"H	53JE90
81"H	53JE91



Cotterman® Easy 50® Steel Crossover Ladders

- 350-lb. load rating
- Meet OSHA and ANSI Standards
- 24"W Steps
- Grip strut tread
- Gray powder-coat finish

Portable and easily moved from place to place. Constructed of rugged 1-pc. welded steel. Feature rubber-tipped legs that hold the unit firmly while in use. 50° climbing angle.

Vert. Clearance	Span	Overall Dim. Height	Overall Dim. Span	Platform Dim. Height	Platform Dim. Depth	Item No.
3-Steps						
28"	9"	60"	58"	30"	24"	**20Z407**
28"	23½"	60"	69"	30"	36"	**20Z408**
28"	32½"	60"	81⅜"	30"	48"	**20Z409**
4-Steps						
38"	9"	70"	76"	40"	24"	**20Z410**
38"	23½"	70"	87"	40"	36"	**20Z411**
38"	32½"	70"	99⅜"	40"	48"	**20Z412**
5-Steps						
48"	9"	80"	92¾"	50"	24"	**20Z413**
48"	23½"	80"	103¾"	50"	36"	**20Z414**
48"	32½"	80"	116⅜"	50"	48"	**20Z415**
48"	46½"	80"	128⅜"	50"	60"	**20Z416**
6-Steps						
58"	9"	90"	109⅞"	60"	24"	**20Z417**
58"	23½"	90"	120¾"	60"	36"	**20Z418**
58"	32½"	90"	133½"	60"	48"	**20Z419**
58"	46½"	90"	145½"	60"	60"	**20Z420**



Spacesaver Crossover Bridges

Cotterman®

- 500-lb. load rating
- 24"W and 5"D steps
- Serrated or diamond plate treads
- Gray powder-coat finish
- 70° climbing angle

These crossover bridges allow you to walk safely over high traffic areas, equipment, duct work, or other obstacles providing mobility and access to needed areas. Steeper 70° climbing angle provides a less overall footprint. Constructed of rugged welded aluminum or steel 4" toe boards and mounting holes on legs.

Vert. Clearance	Span	Overall Height	Overall Span	Platform Height	Platform Depth	ALUMINUM Serrated Item No.	ALUMINUM Diamond Plate Item No.	STEEL Serrated Item No.	STEEL Diamond Plate Item No.
4-Steps									
30"	25⁹⁄₁₆"	74"	53⁷⁄₁₆"	32"	33"	**21VC70**	**21VC71**	**21VC74**	**21VC75**
30"	37⁵⁄₁₆"	74"	65³⁄₁₆"	32"	44"	**21VC72**	**21VC73**	**21VC76**	**21VC77**
5-Steps									
38"	25⁹⁄₁₆"	82"	59¼"	40"	33"	**21VD30**	**21VD31**	**21VD34**	**21VD35**
38"	37⁵⁄₁₆"	82"	65³⁄₁₆"	40"	44"	**21VD32**	**21VD33**	**21VD36**	**21VD37**
6-Steps									
46"	25⁹⁄₁₆"	90"	65¹⁄₁₆"	48"	33"	**21VE23**	**21VE24**	**21VE27**	**21VE28**
46"	37⁵⁄₁₆"	90"	76¹³⁄₁₆"	48"	44"	**21VE25**	**21VE26**	**21VE29**	**21VE30**
7-Steps									
54"	25⁹⁄₁₆"	98"	70¹⁵⁄₁₆"	56"	33"	**21VE54**	**21VE55**	**21VE58**	**21VE59**
54"	37⁵⁄₁₆"	98"	82⅝"	56"	44"	**21VE56**	**21VE57**	**21VE60**	**21VE61**



Crossover Bridges

Cotterman® Easy 50®

- 500-lb. load rating
- Meet OSHA and ANSI Standards
- 24"W and 7"D steps
- Serrated or diamond plate treads
- Gray powder-coat finish
- 50° climbing angle

These ladders improve access over a variety of obstacles, creating walk surfaces over high traffic areas, danger zones, and equipment. 50° climbing angle. Constructed of rugged 1-pc. welded aluminum or steel.

Vert. Clearance	Span	Overall Height	Overall Span	Platform Height	Platform Depth	ALUMINUM Serrated Item No.	ALUMINUM Diamond Plate Item No.	STEEL Serrated Item No.	STEEL Diamond Plate Item No.
4-Steps									
30"	24⅞"	74"	77¾"	32"	37"	**21VC62**	**21VC63**	**21VC66**	**21VC67**
30"	36⅝"	74"	89½"	32"	49"	**21VC64**	**21VC65**	**21VC68**	**21VC69**
5-Steps									
38"	24⅞"	82"	91³⁄₁₆"	40"	37"	**21VD22**	**21VD23**	**21VD26**	**21VD27**
38"	36⅝"	82"	102¹⁵⁄₁₆"	40"	49"	**21VD24**	**21VD25**	**21VD28**	**21VD29**
6-Steps									
46"	24⅞"	90"	104⅝"	48"	37"	**21VE15**	**21VE16**	**21VE19**	**21VE20**
46"	36⅝"	90"	116⅜"	48"	49"	**21VE17**	**21VE18**	**21VE21**	**21VE22**
7-Steps									
54"	24⅞"	98"	118¹⁄₁₆"	56"	37"	**21VE46**	**21VE47**	**21VE50**	**21VE51**
54"	36⅝"	98"	129¹³⁄₁₆"	56"	49"	**21VE48**	**21VE49**	**21VE52**	**21VE53**



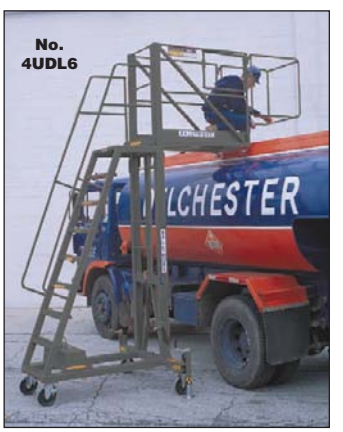
Steel Cantilever Rolling Ladders

Ballymore Safety Ladders

- 300-lb. load rating
- Gray powder-coat finish
- Counterweight included

Component-based ladders make it easy to replace damaged parts and save on freight charges. Feature 59° climbing angle, perforated treads, and 42" handrails. Meet or exceed ANSI 14.7 Standards.

No. of Steps	Overall Height	Platform Height	Bottom Width	Base Depth	Platform Depth 14" Item No.	Platform Depth 28" Item No.	Platform Depth 35" Item No.	Platform Depth 42" Item No.
6	102"	60"	32"	46"	**31ME02**	**31ME03**	**31ME04**	**31ME05**
7	112"	70"	32"	52"	**31ME06**	**31ME07**	**31ME08**	**31ME09**
8	122"	80"	32"	58"	**31ME10**	**31ME11**	**31ME12**	**31ME13**
9	129"	90"	32"	65"	—	—	—	**31ME15**
9	132"	90"	32"	65"	**31ME14**	—	**31ME16**	**31ME17**
10	142"	100"	32"	71"	**31MD77**	**31MD78**	**31MD79**	**31MD80**
11	152"	110"	32"	77"	**31MD81**	**31MD82**	**31MD83**	**31MD84**
12	162"	120"	32"	84"	**31MD85**	**31MD86**	**31MD87**	**31MD88**
13	172"	130"	40"	90"	**31MD89**	**31MD90**	**31MD91**	**31MD92**
14	182"	140"	40"	96"	**31MD93**	**31MD94**	**31MD95**	**31MD96**
15	192"	150"	40"	103"	**31MD97**	**31MD98**	**31MD99**	**31ME01**



Tank Top Lifts

Ballymore Safety Ladders

- 300-lb. load cap.
- 8" casters (2 swivel, 2 rigid)
- Gray powder-coat finish

Provides safe and easy access to tank trucks, railroad cars, and other cantilevered applications. No. 4UDL6 is adjustable and comes with a large-dia. cylinder. No. 8N969 is a fixed height.

Call Grainger to specify height when ordering.

Description	Platform Depth	Base Width	Base Depth	Mfr. Model	Item No.
Adjustable 9' to 13'	48"	28"	60"	TT-913	**4UDL6**
Fixed Height (Choose From 9' to 13 H')	48"	28"	60"	TT9-13F	**8N969**



No. 5AB11

BILJAX Haulotte

Indoor Rolling Utility Work Platforms

- Yellow powder-coat finish
- Lightweight
- Can easily be set up and dismantled by one person
- Platform adjusts every 2" in height
- Roll from room to room without disassembling
- 5"-dia. casters with locking wheels

Pro-Jax® lightweight, all-steel scaffolds are designed for indoor use. Plywood deck platform has steel frame and supports. Casters are removable for use on stairs. Knurled rungs. Outrigger needed when increasing platform height. Ideal for electrical, painting, acoustical, and finishing work; window cleaning; sign installation and maintenance; building maintenance; and HVAC installation.

Note: Guardrails are required by OSHA on all platforms 10 ft. or higher.

L	W	Platform Height	Platform Length	Work Height	Load Capacity	For Use With	Item No.
6 ft.	29"	2 to 4 ft.	72"	10 ft. 6"	1000 lb.	—	5AA99
6 ft.	29"	2 to 6 ft.	72"	12 ft. 6"	1000 lb.	Guardrail	5AB10
6 ft.	29"	2 to 11 ft. 6"	72"	18 ft.	1000 lb.	Guardrail & Outriggers	5AB11
6 ft.	29"	2 to 17 ft.	72"	23 ft. 6"	1000 lb.	Guardrail & Outriggers	5AB12
Accessories							
				Height Extension Kit, 39"H x 6 ft. L			5AB13
				Height Extension Kit, 69"H x 6 ft. L			5AB14
				Guard Rail Kit, 42"H x 6 ft. L			5AB15
				Outrigger Kit, 18"H x 1.5 ft. L x 18"W			5AB16
				Outrigger Kit, 24"H x 2 ft. L x 18"W			5AB17



No. 5AA87

BILJAX Haulotte

Indoor/Outdoor Rolling Tower Work Platforms

- Yellow powder-coat finish
- Provide larger platform for multiple persons and materials
- Greater height capability than utility scaffolds
- Can accommodate longer length requirements
- 8"-dia. casters with locking wheels

Complete systems assemble quickly and easily; frames, braces, inserts, attachments, guardrails and workboards. High-strength steel tubing frames have coped and arc welded perimeter joints. Large, adjustable-height work platforms and easy-access guardrail system. Order accessories separately to reconfigure or expand existing tower systems.

L	D	Platform Height	Work Height	Load Capacity	For Use With	Item No.
7 ft.	60"	2 to 11 ft.	17 ft.	2000 lb.	Guardrail	5AB18
7 ft.	60"	2 to 16 ft.	22 ft.	2000 lb.	Guardrail & Outriggers	5AA87
7 ft.	60"	2 to 21 ft.	27 ft.	2000 lb.	Guardrail & Outriggers	5AA88
10 ft.	60"	2 to 11 ft.	16 ft. 10"	2000 lb.	Guardrail	45NU27
10 ft.	60"	2 to 16 ft.	21 ft. 11"	2000 lb.	Guardrail & Outriggers	45NU28
10 ft.	60"	2 to 21 ft.	27 ft.	2000 lb.	Guardrail & Outriggers	45NU29
Accessories						
			Scaffold Frame, 5 ft W x 60"L			5AA89
			Scaffold Plank, 19"W x 7 ft. L			5AA90
			Guard Rail, 5 ft. L			5AA91
			Guard Rail, 7 ft. L			5AA92
			Scaffold Toeboard, 6"H			5AA93
			Scaffold Crossbrace			5AA94
			Scaffold Brace			5AA95
			Scaffold Caster			5AA96
			Scaffold Leveling Jack, 24"H			5AA97
			Scaffold Pigtail Pin			5AA98

Scaffold Towers

METALTECH®

- Towers meet OSHA, ANSI, and CSA requirements

Jobsite Series™—Suitable and safe for all types of interior work and can be easily stackable up to 3 units high. Steel construction with yellow powder-coat finish. Include 5" casters for easy mobility.

Saferstack® Contractor Series—Complete scaffold tower is 2 sections high with safety guardrails and platforms. Frames stack in 30% less space than regular models, interlock for safer storage and transport, and help prevent stacked frames from sliding. Constructed with steel, aluminum, and wood with a blue antislip, textured powder-coat finish. No. 38HT50 includes 4 leveling jacks.

L	W	Platform Height	Platform Length	Overall Height	Load Capacity	Item No.
Jobsite Series™						
6 ft.	58½"	12 ft.	75"	14 ft. 9"	840 lb.	38HT48
6 ft.	122"	18 ft.	75"	20 ft. 5"	733 lb.	38HT65
74¾"	29¾"	Adjustable	74¾"	6 ft. 3"	1000 lb.	20TN25
6 5/32 ft.	29 13/64"	6 ft.	74"	6 ft. 6"	1000 lb.	38HT63
Saferstack®						
5 ft.	93½"	10 ft.	84"	14 ft. 6"	2300 lb.	38HT52
5¾ ft.	93½"	10 ft.	84"	14 ft.	2500 lb.	38HT50
Accessories						
Jobsite Series™						
			Scaffold Caster			20TN27
			Guard Rail			20TN30
			Outrigger Kit			20TN31
Saferstack®						
			Scaffold Caster			20TN20
			Scaffold Crossbrace			20TN21
			Scaffold Coupling Pin			20TN28



No. 38HT52

For more information on rolling ladders, see page 1027.


No. 4ZY17


No. 38HT59


No. 36Y565


No. 4XP22

WERNER LOUISVILLE LADDER METALTECH®

Adjustable Rolling Platforms

STEEL

Werner®—Lightweight portable scaffold sets up in seconds. Planks can be positioned at multiple levels. Scaffold rolls on 4 high-grade, mar-resistant locking neoprene wheels. Folds for storage. Meet OSHA and ANSI Standards.

MetalTech—Designed for indoor use, scaffold folds and stores easily. Nos. 38HT79-38HT80 and 38HT59 meet OSHA, ANSI, and CSA Standards.

ALUMINUM

Werner®—Lightweight and corrosion-resistant. Double-locking legs allow height adjustment up to 12". Base section includes wood-deck plank and 5" swivel lock casters. Towers include base section, upper and guard rail sections, toe boards, and outriggers. Meet OSHA and ANSI Standards.

Description	Height	Platform Width	Depth	Overall Height	Load Capacity	Brand	Item No.
Steel							
Rolling Scaffold	3 ft. 8"	46"	17"	4 ft.	300 lb.	Werner	**4ZY17**
Scaffold Tower	6 ft.	72"	29"	6 ft. 3"	1000 lb.	Werner	**41D335**
Scaffold	3 ft. 10"	39"	21½"	3 ft. 3"	500 lb.	Metaltech	**38HT67**
Scaffold Tower	4 ft.	46"	57"	4 ft. 3"	500 lb.	Metaltech	**38HT79**
Portable Scaffold	4 ft.	50"	20½"	5 ft. 3"	750 lb.	Metaltech	**38HT59**
Scaffold Tower	5 ft.	48"	57"	6 ft. 3"	900 lb.	Metaltech	**38HT80**
Aluminum							
Scaffold Tower	3 ft.	28¾"	28¾"	3 ft.	1000 lb.	Louisville	**36Y564**
Scaffold Tower	6 ft.	28¾"	28¾"	6 ft.	1000 lb.	Louisville	**36Y565**
Scaffold Tower Base	7 ft. 6"	72"	29"	7 ft. 6"	500 lb.	Werner	**4XN62**
Scaffold Tower	12 ft. 6"	72"	29"	15 ft. 6"	5000 lb.	Werner	**4XP22**
Scaffold Tower	15 ft.	72"	29"	18 ft. 6"	500 lb.	Werner	**4XP23**



Tele-Tower Adjustable Work Platform

Adjustable Rolling Steel Platforms

- Can be easily assembled by 1 person in about 5 min.
- Include four 5" locking casters
- Yellow color

Platform height manually adjusts from 2 ft. to 11 ft. (in 6" increments). Platforms come complete with outriggers, toeboards, and guardrails. Outriggers telescope out on all 4 corners for a better than 3:1 height-to-base ratio. Platforms meet OSHA, ANSI, and CSA requirements.

Order accessories separately to reconfigure or expand existing tower systems.

Height	Platform Width	Depth	Overall Height	Load Capacity	Item No.
Rolling Work Platforms					
24" to 132"	19"	72"	6 ft. 6" to 14 ft. 8"	550 lb.	**10H719**
24" to 132"	19"	96"	6 ft. 6" to 14 ft. 8"	550 lb.	**10H721**
24" to 132"	22"	72"	6 ft. 6" to 14 ft. 8"	800 lb.	**29EZ42**
24" to 132"	22"	96"	6 ft. 6" to 14 ft. 8"	800 lb.	**29EZ43**
Accessories					
Height Extension Kit, 78"H x 6 ft. L For Use With No. 10H719					**10H720**
Height Extension Kit, 78"H x 8 ft. L For Use With No. 10H721					**10H722**
Height Extension Kit, 72"H x 6 ft. L For Use With No. 29EZ42					**29EZ44**
Height Extension Kit, 96"H x 8 ft. L For Use With No. 29EZ43					**29EZ45**
Safety Hoist					**10H724**
Tool Tray, 52"L x 9"W					**10H725**
Safety Rail Storage Cradle For Use With Nos. 10H719 and 10H720					**10H728**



Cotterman® Truck/Trailer Access Ladder

- 800-lb. load rating

Offers easy entry to tractor trailers and cube vans where loading docks or bays are not available. Ladder can be easily moved on two 10"-dia. rear wheels. Features slip-resistant strut treads and 36"H handrails (42" in California) with removable snap hook chains. 50° climbing angle for easy descent. Meets OSHA and ANSI Standards.

No. of Steps	Platform Length	Platform Width	Step Width	Bottom Width	Base Depth	Item No.
5-Step	24"	27"	24"	27½"	69"	**5FZE6**



TRI-ARC SIGNATURE SERIES

Refrigerator Truck Rolling Access Platform

- Height adjusts in 4" increments

Provides fall protection during routine maintenance and inspection of refrigeration units on small- to medium-sized box trucks. 24"L x 120"W platform provides a comfortable and safe work surface. Serrated tread surface for slip resistance and drainage; ladders on both sides for dual access. Reinforced lifting points accommodate adjustability using standard engine puller and designated lifting point for using rope and bucket for bringing items from ground to platform.

Height	Platform Width	Depth	Overall Height	Load Capacity	Item No.
103" to 115"	24"	130"	12 to 13 ft.	500 lb.	**4RCT3**

All-Welded Steel Single-Sided Rolling Work Platforms

Cotterman® Easy 50®

- Assembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- Includes handrails (except for some 2-, 3- and 4-step platforms)

Accommodate two people. 50° climbing angle allows easy descent. Lock work platform on front rubber pads to prevent unwanted movement; release the lock to allow the ladder to roll on 4" casters; swivel in front, rigid in rear.

No. of Steps	Platform Height	Overall Height	Bottom Width	24"D PLATFORM Item No.	36"D PLATFORM Item No.	48"D PLATFORM Item No.	60"D PLATFORM Item No.	72"D PLATFORM Item No.
24" Step Width								
2	20"	1 ft. 8"	28"	4CRY7 †	20Z535 †	20Z536 †	20Z537	—
3	30"	2 ft. 6"	28"	20Z542 †	20Z543 †	20Z544 †	—	—
3	30"	5 ft.	28"	4XM64	3FMG1	45CJ13	20Z545	45CJ09
4	40"	3 ft. 4"	28"	20Z550 *†	20Z551 *†	20Z552 *†	—	—
4	40"	5 ft. 10"	28"	4XM67	3FMG3	45CJ62	20Z553	45CJ36
5	50"	7 ft. 2"	28"	4XM69 *	3FMG5 *	20Z558 *	20Z559 *	45CH66 *
6	60"	8 ft.	28"	3FMG7 *	3FMG8 *	20Z562 *	20Z563 *	45CJ58 *
7	70"	8 ft. 10"	28"	3FMH2 *	3FMH3 *	20Z566 *	20Z567 *	45CJ53 *
36" Step Width								
2	20"	1 ft. 8"	40"	20Z538 †	20Z539 †	20Z540 †	—	—
2	20"	4 ft. 2"	40"	—	—	—	20Z541	—
3	30"	2 ft. 6"	40"	20Z546 †	20Z547 †	20Z548 †	—	—
3	30"	5 ft.	40"	—	4XM65	3FMG2	20Z549	45CJ22
4	40"	5 ft. 10"	40"	20Z554	4XM68	3FMG4	20Z557	45CH69
5	50"	7 ft. 2"	40"	20Z560 *	4XM70 *	3FMG6 *	20Z561 *	45CH92 *
6	60"	8 ft.	40"	20Z564 *	3FMG9 *	3FMH1 *	20Z565 *	45CJ11 *
7	70"	8 ft. 10"	40"	20Z568 *	3FMH4 *	3FMH5 *	20Z569 *	45CJ07 *

** Ladders for use in California will be modified to comply with California OSHA Standards. † No handrail or Steplock.*



3-Step
No. 4XM64

Steel Single-Entry Work Platforms

Baltimore Safety Ladders

- Unassembled
- 800-lb. capacity
- Meet OSHA and ANSI Standards
- Powder-coat finish
- Base is a heavy-duty 2" x 1" rectangular tube

Feature self-cleaning slip-resistant serrated grating, pedal-activated lockstep, and 4" casters.

No. of Steps	Platform Height	Overall Height	Base W	36"D PLATFORM Item No.	48"D PLATFORM Item No.	60"D PLATFORM Item No.	72"D PLATFORM Item No.
24"W Step							
Without Handrails							
3	30"	2 ft. 6"	33"	9WAT2	9W870	8VXV9	9W249
4	40"	3 ft. 4"	33"	9WKY9	8CW89	8XEC6	8CW90
With Handrails							
3	30"	5 ft. 9"	33"	9WEF4	—	—	—
4	40"	6 ft. 7"	33"	8E952	20Y807	20Y808	20Y809
5	50"	7 ft. 5"	33"	9F718	9NNG8	8UKG4	9PXU1
6	60"	8 ft. 3"	33"	8RLV5	9ME75	8PMG5	9FA73
7	70"	9 ft. 1"	33"	8CX06	8ULC9	9WX62	9DUE2
36"W Step							
Without Handrails							
3	30"	2 ft. 6"	38"	8VXW0	9AEM3	9KC96	9F727
With Handrails							
3	30"	5 ft. 9"	38"	8E802	9P502	9P493	20Y806
4	40"	6 ft. 7"	38"	8Y349	9EZ98	9WF45	20Y810
5	50"	7 ft. 5"	38"	8CVM0	20Y812	20Y811	20Y813
6	60"	8 ft. 3"	38"	9TYV0	8TPE7	8CX05	8NE01
7	70"	9 ft. 1"	38"	8CX07	9PYU8	8CX08	9ME76



No. 20Y806

Steel Single-Sided Heavy-Duty Safety Work Platforms

TRI-ARC SIGNATURE SERIES™

- Assembled
- 800-lb. capacity
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- 50° safety incline angle for comfortable easy descent
- Foot-activated lock-step on models with handrails
- Two 4" casters for easy transport on models without handrails
- Two 2.5"-dia. pads for stability on all models
- Serrated tread

No. of Steps	Platform Height	Overall Height	Base W	24"D PLATFORM Item No.	35"D PLATFORM Item No.	47"D PLATFORM Item No.
24"W Step						
Without Handrails						
2	20"	1 ft. 8"	28"	25NZ69	25NZ70	25NZ71
3	30"	2 ft. 6"	28"	25NZ74	25NZ75	25NZ76
4	40"	3 ft. 4"	28"	25NZ79	25NZ80	25NZ81
With Handrails						
2	20"	4 ft. 8"	35"	29RJ60	29RJ64	29RJ68
3	30"	5 ft. 6"	35"	29RJ61	29RJ65	29RJ69
4	40"	6 ft. 4"	35"	29RJ62	29RJ66	29RJ70
5	50"	7 ft. 2"	35"	29RJ63 *	29RJ67 *	29RJ71 *
36"W Step						
Without Handrails						
2	20"	1 ft. 8"	40"	—	25NZ72	25NZ73
3	30"	2 ft. 6"	40"	—	25NZ77	25NZ78
4	40"	3 ft. 4"	40"	—	25NZ82	25NZ83
With Handrails						
2	20"	4 ft. 8"	40"	—	29RJ72	29RJ76
3	30"	5 ft. 6"	40"	—	29RJ73	29RJ77
4	40"	6 ft. 4"	40"	—	29RJ74	29RJ78
5	50"	7 ft. 2"	40"	—	29RJ75 *	29RJ79 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*



3-Step
No. 29RJ77

TRI-ARC SIGNATURE SERIES™

All-Welded Steel Dual-Access Work Platforms

- Assembled
- 800-lb. load rating
- Meet OSHA Standards
- Serrated tread
- Gray powder-coat finish

Accommodate two people. Foot-activated lockstep on both entry sides.

No. of Steps	Platform Height	Overall Height	Base W	47"D PLATFORM Item No.	57"D PLATFORM Item No.
24"W Step					
3	30"	5 ft. 6"	35"	1CJK7	—
4	40"	6 ft. 4"	35"	1CJK9	—
5	50"	7 ft. 2"	35"	1CJL2 *	—
6	60"	8 ft.	35"	1CJL4 *	—
36"W Step					
3	30"	5 ft. 6"	40"	—	1CJK8
4	40"	6 ft. 4"	40"	—	1CJL1
5	50"	7 ft. 2"	40"	—	1CJL3 *
6	60"	8 ft.	40"	—	1CJL5 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*



4-Step
No. 1CJK9



Cotterman®
All-Welded Dual-Access Steel Rolling Work Platforms

- Assembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- Include bolt-on handrails

Accommodate two people. Lock work platform on front rubber pads to prevent unwanted movement; release the lock to allow the ladder to roll on 4" casters; swivel in front, rigid in rear.

No. of Steps	Platform Height	Overall Height	Bottom Width	48"D PLATFORM Item No.	60"D PLATFORM Item No.	72"D PLATFORM Item No.	84"D PLATFORM Item No.
24" Step Width							
3	30"	5 ft. 6"	28"	20Z303	20Z304	20Z305	20Z306
4	40"	6 ft. 4"	28"	20Z311	20Z312	20Z313	20Z314
5	50"	7 ft. 2"	28"	20Z319 *	20Z320 *	20Z321 *	20Z322 *
6	60"	8 ft.	28"	20Z327 *	20Z328 *	20Z329 *	20Z330 *
7	70"	8 ft. 10"	28"	20Z335 *	20Z336 *	20Z337 *	20Z338 *
36" Step Width							
3	30"	5 ft. 6"	40"	20Z307	20Z308	20Z309	20Z310
4	40"	6 ft. 4"	40"	20Z315	20Z316	20Z317	20Z318
5	50"	7 ft. 2"	40"	20Z323 *	20Z324 *	20Z325 *	20Z326 *
6	60"	8 ft.	40"	20Z331 *	20Z332 *	20Z333 *	20Z334 *
7	70"	8 ft. 10"	40"	20Z339 *	20Z340 *	20Z341 *	20Z342 *

**Ladders for use in California will be modified to comply with California OSHA Standards.*



Double Entry Platforms

- Unassembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray power-coat finish
- Base is a heavy-duty 2" x 1" rectangular tube

Accommodate two people with dual access. Easy-to-use foot pedal activated lock step helps prevent movement; releasing lock allows platform to roll on 4" casters. Platform and steps have slip-resistant serrated grating thread. Has 36"H handrails and midrail for added safety.

No. of Steps	Platform Height	Overall Height	Bottom Width	48"D PLATFORM Item No.	60"D PLATFORM Item No.	72"D PLATFORM Item No.	36"D PLATFORM Item No.
24" Step Width							
3	30"	5 ft. 6"	33"	8CRL2	9LE91	8PLE0	9LE90
5	50"	7 ft. 2"	33"	8CR21	9E345	9KAT1	8CR20
6	60"	8 ft.	33"	9LF73	8CWZ6	9HU67	8CR22
7	70"	8 ft. 10"	33"	8CWZ8	9HU68	8RLV2	9ADR2
36" Step Width							
3	30"	5 ft. 6"	38"	8CR16	8CR17	8CR18	8ZD44
4	40"	6 ft. 4"	38"	9LE86	8CR19	9UDM2	9E344
5	50"	7 ft. 2"	38"	8YCF0	8ND38	8XDC4	9E346
6	60"	8 ft.	38"	9F933	8VY90	8CWZ7	9DUE1
7	70"	8 ft. 10"	38"	9NP35	8CWZ9	9ADR4	9RYP4





Adjustable-Height Steel Work Platforms

Cotterman®

- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish

Achieve a comfortable working height and eliminate unnecessary reaching. Legs adjust individually to accommodate uneven floors or obstructions. Grip strut. Open grid platform and tread allow liquids to drain quickly. For oily, wet, or outdoor environments.

1-Step—Create larger elevated work areas by placing them side-by-side or end-to-end. 6" to 9" and 10" to 15" have 2½" rubber pads on all four legs.

2-Step—Adjusting device keeps the step rise equal when platform height adjustment is made. Ship fully assembled.

Platform Depth	Platform Width	Bottom Width	Base Depth	5" to 8"H PLATFORM Item No.	6" to 9"H PLATFORM Item No.	9" to 14"H PLATFORM Item No.	10" to 15"H PLATFORM Item No.	13" to 21"H PLATFORM Item No.
1-Step								
24"	24"	24"	24"	6MXW0	6MXX0	3UU93	6MXX6	—
36"	24"	24"	36"	3UU92	6MXX1	6MXW5	6MXX7	—
48"	24"	24"	48"	6MXW1	6MXX2	6MXW6	6MXX8	—
60"	24"	24"	60"	6MXW2	6MXX3	6MXW7	6MXX9	—
72"	24"	24"	72"	6MXW3	6MXX4	6MXW8	6MXY0	—
96"	24"	24"	96"	6MXW4	6MXX5	6MXW9	6MXY1	—
2-Step								
24"	24"	23"	23"	—	—	—	—	3FMH6
36"	36"	12"	36"	—	—	—	—	3UU94



Cotterman®
Adjustable Work Stands with ErgoMat Deck

- 800-lb. load rating
- Durable, powder-coat finish

Platforms adjust to the desired working height and can be placed side-by-side or end-to-end for a larger standing area. Ergonomic matting reduces fatigue and provides additional comfort when standing for long periods of time. Adjustable legs accommodate uneven floors.

Platform Width	Platform Depth	No. of Legs	ALUMINUM Item No.	STEEL Item No.	STAINLESS STEEL Item No.
5" to 8" Platform Height					
19"	24"	4	22N967	22N976	22N985
	36"	4	22N968	22N977	22N986
	48"	4	22N969	22N978	22N987
24"	24"	4	22N970	22N979	22N988
	36"	4	22N971	22N980	22N989
	48"	4	22N972	22N981	22N990
	60"	6	22N973	22N982	22N991
	72"	6	22N974	22N983	22N992
	96"	6	22N975	22N984	22N993
9" to 14" Platform Height					
19"	24"	4	22N994	22P004	22P013
	36"	4	22N995	22P005	22P014
	48"	4	22N996	22P006	22P015
24"	24"	4	22N997	22P007	22P016
	36"	4	22N998	22P008	22P017
	48"	4	22N999	22P009	22P018
	60"	6	22P001	22P010	22P019
	72"	6	22P002	22P011	22P020
	96"	6	22P003	22P012	22P021

Steel Rolling Steps

Cotterman®

- 450-lb. load rating
- 16"W x 7"D step
- 16"W x 10"D platform
- Gray powder-coat finish

Feature all swivel spring-loaded casters that lift the ladder off the floor when stepping off. Meet OSHA and ANSI Standards.

No. of Steps	Top Step Height	Overall Height	Bottom Width	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
1	10"	10"	24"	16"	—	8DPJ9	—
1	10"	12"	16"	19"	45CJ14	—	—
1	12"	12"	16"	16"	—	8W486	—
2	20"	20"	24"	19"	45CH42	8EDA5	—
2	20"	20"	16"	19"	3UY10	4XM23	4XM24
3	30"	30"	16"	26"	3UY11	4XM25	4XM26
3	30"	30"	24"	27"	45CJ19	—	—
3	30"	30"	30"	30"	—	9NVT7	8XAR7
4	40"	40"	24"	31"	—	8EG89	9NKH9
4	40"	40"	16"	31"	45CH97	9AM30	8RKL4



3-Step, No. 3UY11

Cotterman® All-Welded Steel Steps

- Working height 7 to 8 ft.
- 500-lb. load rating
- 45° climbing angle
- Serrated tread
- Gray powder-coat finish
- Meet OSHA and ANSI Standards



No. of Steps	Overall Height	Bottom Width	Base Depth	Item No.
3	30"	34"	34"	20Z503



No. 20Z504

Cotterman® All-Welded Aluminum Stationary Steps

- Working height 6- to 8-ft.
- 500-lb. load rating
- 45° climbing angle
- Serrated tread
- Meet OSHA and ANSI Standards

No. of Steps	Overall Height	Bottom Width	Base Depth	Item No.
1	10"	33"	17"	20Z504



No. 20Z277



No. 12M638

Cotterman® GA GRAINGER APPROVED Mobile Steel Rolling Platforms

- Working height 6 ft.
- 16"L x 10"D antislip platform
- Ship assembled

Features all-swivel, spring-loaded casters that lift the ladder off the floor when stepping off. 16"W x 10"D solid steel platform with three antislip treads. No. 20Z277 meets OSHA and ANSI Standards.

Top Step Height	Bottom Width	Base Depth	Load Capacity	Tread	Color	Brand	Item No.
12"	18½"	18"	450 lb.	Abrasive Mat	Gray	Cotterman	20Z277
13"	17"	20"	300 lb.	Rubber Mat	Blue	GA	12M638



No. 22P022

Steel Fold-Up Steps

Cotterman®

- 350-lb. load rating
- Gray powder-coat finish

Mount easily and allow a quick step up in small, confined areas. Easily fold into a vertical position when not in use. Include two 9/16" mounting holes, fasteners not included.

Description	Overall Width	Overall Length	Item No.
Manual Fold-Up Step	10¾"	15"	22P022
Spring Loaded Fold-Up Step	10¾"	15"	22P023

Plastic Step Stands

★ GA GRAINGER APPROVED DPI™

- 500-lb. load rating

Features polyethylene construction. Lightweight stands are durable and easy to move.

No. of Steps	Top Step Height	Bottom Width	Base Depth	▶CHOOSE: Color	Item No.	
GA						
1	12"	20¾"	14¾"	Gray, Green, Yellow	J2239	
2	19¾"	22¾"	26"		J2237	
3	28¾"	23"	35¼"		J2238	
DPI						
1	11½"	19½"	13¾"	Black, Gray, Yellow	J4023	
2	19¼"	21"	23¾"		J4024	
2	24"	25"	25¾"	Yellow	403U24	
3	29¼"	21"	33½"	Black, Gray, Yellow	J4025	
4	38½"	21½"	42½"	Yellow	J4026	*

For Use With Grainger Item Number	Includes	Brand	Item No.
Rubber Pad			
Nos. J2239, J2237, J2238	(4) Foot Pads	GA	45EA66

** Includes handrails.*



No. J4026



No. J2239



2-Step, No Handrails No. F2125



4-Step, Double Handrails No. F2130

Office Ladders

Cotterman®

- 450-lb. load rating
- 8"D steps, 8" or 14"D top step
- Molded polyurethane on polyolefin casters with Delrin® bearings
- Powder-coat finish

1-pc. welded construction of 1" square tubes. Solid steel steps with black rubber tread matting. Roll easily on four 2" spring-loaded casters protected by caster cup housings. 1- to 5-step models without handrails ship fully assembled; 2- to 6-step models with handrails require assembly. Meet OSHA and ANSI Standards.

No. of Steps	Platform Height	Step Width	Bottom Width	Base Depth	▶CHOOSE: Color	DOUBLE HANDRAILS Overall Height	DOUBLE HANDRAILS Item No.	LEFT HANDRAIL Overall Height	LEFT HANDRAIL Item No.	RIGHT HANDRAIL Overall Height	RIGHT HANDRAIL Item No.	NO HANDRAILS Overall Height	NO HANDRAILS Item No.
8" Platform Depth													
2	18"	16"	22"	20"	Black, Blue, Brown, Gray, Red	48"	**F2126**	48"	**D5249**	48"	**D5254**	—	—
2	18"	16"	22"	20"	Gray, Red	—	—	—	—	—	—	22"	**F2125**
3	27"	16"	24"	27"	Black, Blue, Brown, Gray, Red	57"	**F2128**	57"	**D5251**	57"	**D5255**	—	—
3	27"	16"	24"	27"	Gray	—	—	—	—	—	—	31"	**F2127**
4	36"	16"	25"	34"	Black, Blue, Brown, Gray, Red	66"	**F2130**	66"	**D5252**	66"	**D5256**	40"	**F2129**
5	45"	16"	26"	40"		75"	**F2132**	75"	**D5253**	75"	**D5257**	49"	**F2131**
6	54"	16"	27"	48"		84"	**D5248** *	—	—	—	—	—	—
14" Platform Depth													
2	18"	16"	22"	26"	Black, Blue, Brown, Gray, Red	48"	**D5264**	48"	**D5269**	48"	**D5274**	—	—
2	18"	16"	22"	26"	Red	—	—	—	—	—	—	22"	**D5259**
3	27"	16"	24"	32"	Blue, Gray, Red	—	—	—	—	—	—	31"	**D5261**
3	27"	16"	24"	32"	Black, Blue, Brown, Gray, Red	57"	**D5265**	57"	**D5271**	57"	**D5275**	—	—
4	36"	16"	25"	39"		66"	**D5266**	66"	**D5272** †	66"	**D5276** †	40"	**D5262** †
5	45"	16"	26"	46"		75"	**D5267**	75"	**D5273** †	75"	**D5277** †	49"	**D5263** †
6	54"	16"	27"	53"		84"	**D5268** *	—	—	—	—	—	—

**** Ladders for use in California will be modified to California Standards. † Not for use in California.***



No. 46C355

Cotterman® StockNStore™ Ladders

- 350-lb. load rating
- 16"W x 7"D step with 10"D top step
- Roll in collapsed or set-up positions

Ladders open smoothly during the transition from rolling to setting down on rubber feet. Include a cable-release system for weight-activated hinges with no pinch points. Hinges automatically lock in place. For use where space is limited but quick access to elevated areas is required.

No. of Steps	Platform Height	Overall Height	Bottom Width	PERFORATED TREAD Item No.	SERRATED TREAD Item No.	ANTISLIP VINYL TREAD Item No.
Powder-Coat Steel						
2	20"	50"	20"	**46C346**	**46C352**	**46C349**
3	30"	60"	20"	**46C347**	**46C353**	**46C350**
4	40"	70"	20"	**46C348**	**46C354**	**46C351**
Aluminum						
2	20"	50"	20"	**46C355**	**46C361**	**46C358**
3	30"	60"	20"	**46C356**	**46C362**	**46C359**
4	40"	70"	20"	**46C357**	**46C363**	**46C360**



No. 4ZY18



No. 36Y493

WERNER LOUISVILLE LADDER

Fold-Up Work Platforms

Provide a workspace along walls and windows. Nonskid surface with slip-resistant rubber feet protect floors. Easily set up and fold for storage. Nos. 4ZY18 and 36FX62 meet ANSI and OSHA Standards.

Platform Depth	Platform Height	Platform Width	Load Capacity	Brand	Item No.
Aluminum					
37"	21"	11⅞"	225 lb.	Louisville	**36Y493**
39½"	20⅜6"	12"	225 lb.	Werner	**4ZY18**
48"	20⅜6"	16"	300 lb.	Werner	**36FX62**
Fiberglass					
36"	21"	12"	300 lb.	Louisville	**33J771**



2-Step No. 4RCT4

TRI-ARC SIGNATURE SERIES

Folding Ladder Stands

- 350-lb. load rating
- 16"W x 7"D step with 10"D top step
- Powder-coat finish

Combine the utility of a mobile rolling ladder with the convenience of a folding step stand. Able to roll while in closed or set-up positions. Fold for easy storage. Meet OSHA and ANSI Standards.

No. of Steps	Platform Height	Overall Height	Bottom Width	Base Depth	PERFORATED TREAD Item No.
2	20"	44"	21"	20"	**4RCT4**
3	30"	54"	21"	27"	**4RCT5**
4	40"	64"	21"	34"	**4RCT6**



Base Level with Add-On Level and Rubber Matting with Yellow Border

SDC INDUSTRIAL

Add-A-Level™ Work Platforms

Allow work areas to be customized to correct height and width. Additional matting can be added-on to top level. Lightweight, recycled plastic material resists rust, oils, grease, most acids, and chemicals. Open grid, flow-through pattern for decontamination environments.

Bottom Width	Base Depth	Overall Height	Item No.
Base Levels			
24"	36"	2⅞"	**1DPC9**
24"	48"	2⅞"	**2KUW1**
24"	66"	2⅞"	**1DPD3**
24"	96"	2⅞"	**2KUW3**
36"	36"	2⅞"	**4RNR5**
36"	66"	2⅞"	**4RNR7**
36"	96"	2⅞"	**1DPD4**
Add-On Levels			
24"	36"	2⅝"	**1DPD1**
24"	48"	2⅝"	**2KUW2**
24"	66"	2⅝"	**1DPD2**
24"	96"	2⅝"	**2KUW4**
36"	36"	2⅝"	**4RNR6**
36"	66"	2⅝"	**4RNR8**
36"	96"	2⅝"	**1DPD5**

Width	Length	Overall Height	Item No.
Rubber Matting with Yellow Border			
24"	36"	⅞"	**459W20**
24"	48"	⅞"	**459W22**
24"	66"	⅞"	**459W24**
24"	96"	⅞"	**459W26**
36"	36"	⅞"	**459W28**
36"	66"	⅞"	**459W30**
Rubber Matting without Border			
24"	48"	⅞"	**459W21**
24"	66"	⅞"	**459W23**
24"	96"	⅞"	**459W25**
36"	36"	⅞"	**459W27**
36"	66"	⅞"	**459W29**
36"	96"	⅞"	**459W31**
Poly-Clip Horizontal Connectors			
			4DB39



Middle No. 4EU25

Top No. 5FZE5

Cotterman® Welded-Steel Safety Cages

- Gray powder-coat paint finish
- Meet or exceed OSHA Standards

SAFETY CAGES

Modular cages help make existing fixed ladder OSHA compliant. Cages mount to the side rails of fixed ladders up to 20"W. Top and middle sections have a 29" I.D.; bottom section flares to a 34" I.D. for easy entry. Include mounting hardware for flat or angle side rails.

To determine proper length, the cage should begin 7 ft. to 8 ft. from the floor and extend 42" above the landing surface (except for hatchways). Use this figure to build a combination of one bottom section, plus middle section and top sections for ladders with 42" extend handrails.

LADDER GUARD

For use with 20"W fixed steel ladders.

Section	Overall Height	Item No.
Safety Cages		
Top	5 ft.	5FZE5
Middle	2 ft.	4EU26
Middle	3 ft.	4EU27
Middle	4 ft.	4EU28
Middle	7 ft.	4EU25
Bottom	4 ft.	4EU29
Ladder Guard		
—	6 ft.	487V32

Cotterman® Fixed Welded-Steel Ladders with Safety Cages



No. 4EU21



No. 20Z509

- 300-lb. capacity
- Gray powder-coat paint finish
- Provide step-off points from 13 ft. to 29 ft.

Allow solid climbing and safer landing access. Safety cages come welded to ladder for quick-and-easy assembly. Cages and walk-thru handrails extend 42" above landing surface for easier access. Cage begins 7 ft. from bottom of the ladder and has flared bottom opening for easy entry. Ideal for raised platforms and roofs. Meet or exceed OSHA and ANSI standards.

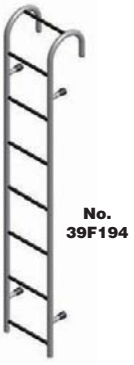
Top Step Height	WITH WALK-THRU Overall Height	WITH WALK-THRU Item No.	WITHOUT WALK-THRU Overall Height	WITHOUT WALK-THRU Item No.	WITHOUT WALK-THRU, RIGHT EXIT Overall Height	WITHOUT WALK-THRU, RIGHT EXIT Item No.	WITHOUT WALK-THRU, LEFT EXIT Overall Height	WITHOUT WALK-THRU, LEFT EXIT Item No.
12 ft.	15 ft. 8"	4EU21	12 ft. 3"	4EU35	12 ft. 3"	6MXP8	12 ft. 3"	6MXT6
13 ft.	16 ft. 8"	5FZD6	13 ft. 3"	6MXN3	13 ft. 3"	6MXP9	13 ft. 3"	6MXT7
14 ft.	17 ft. 8"	1TGX2	14 ft. 3"	6MXN4	14 ft. 3"	6MXR0	14 ft. 3"	6MXT8
15 ft.	18 ft. 8"	5FZD7	15 ft. 3"	6MXN5	15 ft. 3"	6MXR1	15 ft. 3"	6MXT9
16 ft.	19 ft. 8"	4EU22	16 ft. 3"	4EU36	16 ft. 3"	6MXR2	16 ft. 3"	6MXU0
17 ft.	20 ft. 8"	5FZD8	17 ft. 3"	6MXN6	17 ft. 3"	6MXR3	17 ft. 3"	6MXU1
18 ft.	21 ft. 8"	1TGX3	18 ft. 3"	6MXN7	18 ft. 3"	6MXR4	18 ft. 3"	6MXU2
19 ft.	22 ft. 8"	5FZD9	19 ft. 3"	6MXN8	19 ft. 3"	6MXR5	19 ft. 3"	6MXU3
20 ft.	23 ft. 8"	4EU23	20 ft. 3"	4EU37	20 ft. 3"	6MXR6	20 ft. 3"	6MXU4
21 ft.	24 ft. 8"	5FZE0	21 ft. 3"	6MXN9	21 ft. 3"	6MXR7	21 ft. 3"	6MXU5
22 ft.	25 ft. 8"	1TGX4	22 ft. 3"	6MXP0	22 ft. 3"	6MXR8	22 ft. 3"	6MXU6
23 ft.	26 ft. 8"	5FZE1	23 ft. 3"	6MXP1	23 ft. 3"	6MXR9	23 ft. 3"	6MXU7
24 ft.	27 ft. 8"	1TGX5	24 ft. 3"	6MXP2	24 ft. 3"	6MXT0	24 ft. 3"	6MXU8
25 ft.	28 ft. 8"	5FZE2	25 ft. 3"	6MXP3	25 ft. 3"	6MXT1	25 ft. 3"	6MXU9
26 ft.	29 ft. 8"	1TGX6	26 ft. 3"	6MXP4	26 ft. 3"	6MXT2	26 ft. 3"	6MXV0
27 ft.	30 ft. 8"	5FZE3	27 ft. 3"	6MXP5	27 ft. 3"	6MXT3	27 ft. 3"	6MXV1
28 ft.	31 ft. 8"	1TGX7	28 ft. 3"	6MXP6	28 ft. 3"	6MXT4	28 ft. 3"	6MXV2
29 ft.	32 ft. 8"	5FZE4	29 ft. 3"	6MXP7	29 ft. 3"	6MXT5	29 ft. 3"	6MXV3

	Overall Height	Item No.		Overall Height	Item No.
Right Entry Standoff Landing Platform	6 ft. 7"	20Z509	**Left Entry Standoff Landing Platform**	6 ft. 7"	20Z510

Cotterman® Storage Tank Access Ladders

Ladder tops hook to the top edge of a tank to allow user portable access to the inside of storage tanks and vessels. They are constructed of welded steel with durable gray powder-coat paint finish and rubber-tipped legs.

Top to Bottom Rung	Item No.
6 ft.	39F194
7 ft.	39F195
8 ft.	39F196
9 ft.	39F197
10 ft.	39F198
11 ft.	39F199
12 ft.	39F201
13 ft.	39F202
14 ft.	39F203
15 ft.	39F204



No. 39F194

TRI-ARC SIGNATURE SERIES™

Industrial Access Stair Units

- 450-lb. load capacity
- Gray powder-coat finish
- 24"W steps
- 26.5" base width
- 1" x 2" rectangular frame
- 1.5" round tubular handrails

45° incline allows comfortable, easy descent. Punched flange and floor plates for mounting. Meet OSHA and ANSI Standards.



Perforated No. 420R80

No. of Steps	Overall Height	Base Depth	Top Step Height	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
6	95"	58"	57"	420R78	420R85
7	104½"	67½"	66½"	420R79	420R86
8	114"	77"	76"	420R80	420R87
9	123½"	86½"	85½"	420R81	420R88
10	133"	96"	95"	420R82	420R89
11	142½"	105½"	104½"	420R83	420R90
12	152"	115"	114"	420R84	420R91

Fixed Welded-Steel and Aluminum Ladders

Cotterman® TRI-ARC SIGNATURE SERIES™

- 300-lb. capacity
- Steel ladders have a gray powder-coat paint finish

Heavy-duty, 1-pc. welded ladders enable solid climbing and safer landing access to heights less than 20 ft. Rungs are spaced on 12" centers. Use for vertical access to raised platforms, roofs, or hatchway openings. Meet or exceed OSHA and ANSI Standards.

Top Step Height	Overall Height	No. of Steps	Step Width	Brand	Item No.
Steel					
Walk-Thru Handrails					
2 ft.	6 ft.	3	24"	Cotterman	4XM76
3 ft.	7 ft.	4	24"	Cotterman	4XM77
4 ft.	8 ft.	5	24"	Cotterman	4XM78
8 ft.	11 ft. 8"	9	16"	Cotterman	4EU16
9 ft.	12 ft. 8"	10	16"	Cotterman	5FZD0
10 ft.	13 ft. 8"	11	16"	Cotterman	4EU17
11 ft.	14 ft. 8"	12	16"	Cotterman	5FZD1
12 ft.	15 ft. 8"	13	16"	Cotterman	4EU18
13 ft.	16 ft. 8"	14	16"	Cotterman	5FZD2
14 ft.	17 ft. 8"	15	16"	Cotterman	4EU19
15 ft.	18 ft. 8"	16	16"	Cotterman	5FZD3
16 ft.	16 ft. 3"	17	16"	Cotterman	1TGY1
16 ft.	19 ft. 8"	17	16"	Cotterman	1TGX8
17 ft.	20 ft. 8"	18	16"	Cotterman	5FZD4
18 ft.	18 ft. 3"	19	16"	Cotterman	1TGY2
18 ft.	21 ft. 8"	19	16"	Cotterman	1TGX9
19 ft.	22 ft. 8"	20	16"	Cotterman	5FZD5
Without Walk-Thru Handrails					
8 ft.	8 ft. 3"	9	16"	Cotterman	4EU30
9 ft.	9 ft. 3"	10	16"	Cotterman	5FZC4
9 ft.	10 ft. 2"	10	18"	Tri-Arc	3NUU3
10 ft.	10 ft. 3"	11	16"	Cotterman	4EU31
11 ft.	11 ft. 3"	12	16"	Cotterman	5FZC5
11 ft.	12 ft. 2"	12	18"	Tri-Arc	3NUU4
12 ft.	12 ft. 3"	13	16"	Cotterman	4EU32
13 ft.	13 ft. 3"	14	16"	Cotterman	5FZC6
13 ft.	14 ft. 2"	14	18"	Tri-Arc	3NUU5
14 ft.	14 ft. 3"	15	16"	Cotterman	4EU33
15 ft.	15 ft. 3"	16	16"	Cotterman	5FZC7
17 ft.	17 ft. 3"	18	16"	Cotterman	5FZC8
19 ft.	19 ft. 3"	20	16"	Cotterman	5FZC9
Aluminum					
Walk-Thru Handrails					
2 ft.	6 ft.	3	18"	Tri-Arc	3NUU9
3 ft.	7 ft.	4	18"	Tri-Arc	3NUV1
4 ft.	8 ft.	5	18"	Tri-Arc	3NUV2
Without Walk-Thru Handrails					
9 ft.	10 ft. 2"	10	18"	Tri-Arc	3NUU6
11 ft.	12 ft. 2"	12	18"	Tri-Arc	3NUU7
13 ft.	14 ft. 2"	14	18"	Tri-Arc	3NUU8



Steel With Walk-Thru Handrails

How to Choose What Service Classification You Need

WEIGHT CAPACITY	INPUT VOLTAGE	LIFT SPEED	CHAIN LENGTH (Lift)	LOAD MOVEMENT	NUMBER OF LIFTS	START/STOPS	OPERATING TIME
Determine the max. weight you need to lift. (include lifting, supporting, and positioning devices).	What is the nominal voltage (±10% of rated voltage) in your facility? Single-Phase 115 or 230V 3-Phase 208, 230, or 460V.	What speed do you want to lift the load? Industry standard for ⅛ to 1 ton is 16 ft./min. (fpm). 2 ton is 8 fpm. For flexibility consider a variable-speed lift.	Measure from the point of mount to the floor.	What is the actual distance the load must be lifted and lowered?	Determine the number of lifts per hour for the job.	How many times does an operator activate the push-button control? Rule of thumb: 8 start/stops per cycle (load lift and lower).	Hoists have a "Service Classification" rating. To determine this classification for your job, use the following calculation: Minutes Run Time = Feet of Load Lift x Lifts per Hour x 2 ÷ Hoist Speed Then calculate: % On Time = Minutes Run Time ÷ 60
Ex: 2400 lb. includes all the components of the load (pallet, drum, sling, etc.).	Ex: 230V	Ex: 8 fpm	Ex: 12 ft.	Ex: 7 ft.	Ex: 15	Ex: 120 start/stops	Ex: 12 ft.

Hoist Service Classifications

Service Classification	Total Equipment Running Time	Max. Start/Stops Per Hour	Typical Areas of Application
H4 - Industry Standard	Approaching 50% of the work period	300	High-volume handling in steel warehousing, machine shops, fabricating plants, mills, and foundries. Manual or automatic cycling operations in heat-treating and plating operations.
H3	Not to exceed 25% of the work period	150	General machine shop, fabricating, assembly, storage, and warehousing use, where loads and operation are randomly distributed.
H2	Not to exceed 15% of the work period	75	Light machine shop, fabricating industries, and service and maintenance work, where loads and use are randomly distributed with capacity loads infrequently handled.

Note: For higher duty cycles, refer to the Air Hoist section.



No. 452R33



No. 452R42

Dayton

H4-Rated Single-Speed Electric Chain Hoists

- Lubrication: grease
- Positive braking, under all load conditions
- Include chain container
- Heat-treated steel alloy chain

Brake stops and holds the load, even with loss of power. Rigid top and swivel load hooks provide positive load engagement. Include over-travel prevention system. Overload limiting clutch prevents hoist damage from heavy loads. 15-ft. power cord. Dual-voltage hoists reconnect for use at 230VAC. Meet ANSI/ASME B30.16 UL 1340.

Note: Replacement parts available on Grainger.com

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10-ft. Lift 5-ft. Control Cord Item No.	15-ft. Lift 11-ft. Control Cord Item No.	20-ft. Lift 15-ft. Control Cord Item No.
500 lb.	20 fpm	0.32	115/230	1	17 5/16"	7.6	452R33	452R53	452R54
	32 fpm	0.65	115/230	1	17 5/16"	10.5	452R55	452R56	452R57
1000 lb.	20 fpm	0.65	115/230	1	17 29/32"	10.5	452R39	452R45	452R46
	32 fpm	1.3	115/230	1	21 17/64"	14.5	452R51	—	—
	32 fpm	1.3	230/460	3	17 47/64"	3.5	452R34	452R35	452R36
2000 lb.	20 fpm	1.3	115/230	1	21 17/64"	14.5	452R40	452R52	452R44
	20 fpm	1.8	230/460	3	21 17/64"	6	452R41	452R47	452R37
4000 lb.	10 fpm	1.3	115/230	1	26 1/16"	14.5	452R42	452R48	452R49
	10 fpm	1.8	230/460	3	26 1/16"	6	452R43	452R50	452R38



No. 2GXH6

Dayton

H3-Rated Single-Speed Electric Chain Hoists

- Gears are enclosed in grease case
- Electric disc motor brakes
- Thermal overload protection
- Chain container included
- Hardened alloy steel chain

Latch-type hook provides positive load engagement. Brake stops and holds the load, even with a loss of power. Offer up to 18-min. "On" time per hr. with full thermal protection. Upper and lower limit switches prevent chain overtravel. Meet NEMA 1 Standard, UL and C-UL Listed.

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10-ft. Lift 6-ft. Control Cord Item No.	15-ft. Lift 11-ft. Control Cord Item No.	20-ft. Lift 16-ft. Control Cord Item No.
1000 lb.	16 fpm	0.67	115	1	19 3/32"	10	2GXG9	2GXH1	2GXH2
2000 lb.	16 fpm	1	115	1	22 3/64"	15	2GXH3	2GXH4	2GXH5
4000 lb.	8 fpm	1	115	1	26 49/64"	15	2GXH6	2GXH7	2GXH8

H4-Rated NER 3-Phase Electric Chain Hoists

HARRINGTON
A XTO GROUP COMPANY

- Dual speed via under-the-cover variable frequency drive
- Count hour meter and chain container
- Plug-in pendant and power cord
- Low-profile upper and lower limit switches
- 10-yr. warranty on brake
- IP55 rated for indoor or outdoor use
- Meet ANSI/ASME B30.16 and UL 1340
- RoHS Compliant

Designed for heavy- and severe-duty applications.



No. 4DFL8

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
Single Speed								
250 lb.	55 fpm	0.75	208/230/460	13 13/16"	3.4	25K564	25K565	25K566
500 lb.	53 fpm	1.2	208/230/460	13 13/16"	4.8	25K573	25K574	25K575
	36 fpm	0.75	208/230/460	13 13/16"	3.4	25K582	25K583	25K584
1000 lb.	15 fpm	0.75	208/230/460	14 5/8"	3.4	4DFL1	4DFL2	4DFL3
	29 fpm	1.2	208/230/460	14 5/8"	4.8	4DFL4	4DFL5	4DFL6
2000 lb.	14 fpm	1.2	208/230/460	16 15/16"	4.8	4DFL7	4DFL8	4DFL9
	28 fpm	2.4	208/230/460	16 15/16"	8.6	4DFN1	4DFN2	4DFN3
4000 lb.	14 fpm	2.4	208/230/460	22 5/8"	8.6	4DFN4	4DFN5	4DFN6
	28 fpm	4.7	208/230/460	23 3/16"	16.4	4DFN7	4DFN8	4DFN9
6000 lb.	17 fpm	4.7	208/230/460	32 15/16"	16.4	4DFP1	4DFP2	4DFP3
10000 lb.	11 fpm	4.7	208/230/460	33 1/2"	16.4	4DFP4	4DFP5	4DFP6
Variable Speed								
250 lb.	55/9 fpm	0.75	460	13 13/16"	1.8	25K568	25K570	25K572
	55/9 fpm	0.75	230	13 13/16"	3.6	25K567	25K569	25K571
500 lb.	53/9 fpm	1.2	460	13 13/16"	2.7	25K577	25K579	25K581
	36/6 fpm	0.75	230	13 13/16"	3.6	25K585	25K587	25K589
	36/6 fpm	0.75	460	13 13/16"	1.8	25K586	25K588	25K590
	53/9 fpm	1.2	230	13 13/16"	5.1	25K576	25K578	25K580
1000 lb.	29/5 fpm	1.2	230	14 5/8"	5.1	14H716	14H717	14H718
	15/2.5 fpm	0.75	230	14 5/8"	3.6	14H713	14H714	14H715
	15/2.5 fpm	0.75	460	14 5/8"	1.8	6HJH9	6HJJ0	6HJJ1
	29/5 fpm	1.2	460	14 5/8"	2.7	6HJJ2	6HJJ3	6HJJ4
2000 lb.	14/2.5 fpm	1.2	230	16 15/16"	5.1	14H719	14H720	14H721
	14/2.5 fpm	1.2	460	16 15/16"	2.7	6HJJ5	6HJJ6	6HJJ7
	28/4.5 fpm	2.4	230	16 15/16"	9.1	14H722	14H723	14H724
	28/4.5 fpm	2.4	460	16 15/16"	4.5	6HJJ8	6HJJ9	6HJK0
4000 lb.	14/2.5 fpm	2.4	230	22 5/8"	9.1	14H725	14H726	14H727
	14/2.5 fpm	2.4	460	22 5/8"	4.5	6HJK1	6HJK2	6HJK3
	28/4.5 fpm	4.7	230	23 3/16"	17.3	14H728	14H729	14H730
	28/4.5 fpm	4.7	460	23 3/16"	8.3	6HJK4	6HJK5	6HJK6
6000 lb.	17/3 fpm	4.7	230	32 15/16"	17.3	14H731	14H732	14H733
	17/3 fpm	4.7	460	32 15/16"	8.3	6HJK7	6HJK8	6HJK9
10000 lb.	11/2 fpm	4.7	230	33 1/2"	17.3	14H734	14H735	14H736
	11/2 fpm	4.7	460	33 1/2"	8.3	6HJL0	6HJL1	6HJL2

H4-Rated NERP 3-Phase Electric Chain Hoists with Push Trolley

HARRINGTON
A XTO GROUP COMPANY

- Push trolley operates on S or W beams
- Side guide rollers for smooth travel
- High-strength, Grade 80, nickel-plated load chain
- Includes chain container
- Meet ANSI/ASME B30.16 and UL 1340
- RoHS Compliant

Hoist and trolley rated IP55 for indoor or outdoor use and are built to handle heavy- and severe-duty applications.



No. 25K637

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
Single Speed									
250 lb.	55 fpm	0.75	208/230/460	15 5/8"	2 1/4" to 4"	3.4	25K591	25K592	25K593
500 lb.	53 fpm	1.2	208/230/460	16 1/16"	2 1/4" to 4"	4.8	25K601	25K602	25K603
	36 fpm	0.75	208/230/460	15 5/8"	2 1/4" to 4"	3.4	25K610	25K611	25K612
1000 lb.	15 fpm	0.75	208/230/460	17 1/8"	2 1/4" to 4"	3.4	25K619	25K620	25K621
	29 fpm	1.2	208/230/460	17 1/8"	2 1/4" to 4"	4.8	25K628	25K629	25K630
2000 lb.	14 fpm	1.2	208/230/460	18 1/2"	2 1/4" to 5"	4.8	25K637	25K638	25K639
3000 lb.	18 fpm	2.4	208/230/460	22 3/8"	3 1/4" to 6"	8.6	25K655	25K656	25K657
4000 lb.	7 fpm	1.2	208/230/460	27 3/8"	3 1/4" to 6"	4.8	25K664	25K665	25K666
	14 fpm	2.4	208/230/460	25"	3 1/4" to 6"	8.6	25K673	25K674	25K675
	28 fpm	4.7	208/230/460	25 5/8"	3 1/4" to 6"	16.4	25K682	25K683	25K684
6000 lb.	17 fpm	4.7	208/230/460	32 1 1/16"	3 1/4" to 6"	16.4	25K691	25K692	25K693
10000 lb.	11 fpm	4.7	208/230/460	35 3/8"	4" to 7"	16.4	25K701	25K702	25K703
Variable Speed									
250 lb.	55/9 fpm	0.75	460	15 5/8"	2 1/4" to 4"	1.8	25K594	25K595	25K596
		0.75	230	15 5/8"	2 1/4" to 4"	3.6	25K597	25K598	25K599
500 lb.	53/9 fpm	1.2	460	16 1/16"	2 1/4" to 4"	2.7	25K604	25K605	25K606
		1.2	230	16 1/16"	2 1/4" to 4"	5.1	25K607	25K608	25K609
	36/6 fpm	0.75	460	15 5/8"	2 1/4" to 4"	1.8	25K613	25K614	25K615
		0.75	230	15 5/8"	2 1/4" to 4"	3.6	25K616	25K617	25K618
1000 lb.	15/2.5 fpm	0.75	460	17 1/8"	2 1/4" to 4"	1.8	25K622	25K623	25K624
		0.75	230	17 1/8"	2 1/4" to 4"	3.6	25K625	25K626	25K627
	29/5 fpm	1.2	460	17 1/8"	2 1/4" to 4"	2.7	25K631	25K632	25K633
		1.2	230	17 1/8"	2 1/4" to 4"	5.1	25K634	25K635	25K636
2000 lb.	14/2.5 fpm	1.2	230	18 1/2"	2 1/4" to 5"	5.1	25K643	25K644	25K645
		1.2	460	18 1/2"	2 1/4" to 5"	2.7	25K640	25K641	25K642
	28/4.5 fpm	2.4	230	18 1/2"	2 1/4" to 5"	9.1	25K652	25K653	25K654
		2.4	460	18 1/2"	2 1/4" to 5"	4.5	25K649	25K650	25K651
3000 lb.	18/3 fpm	2.4	460	22 3/8"	3 1/4" to 6"	4.5	25K658	25K659	25K660
		2.4	230	22 3/8"	3 1/4" to 6"	9.1	25K661	25K662	25K663
4000 lb.	7/1 fpm	1.2	460	27 13/16"	3 1/4" to 6"	2.7	25K667	25K668	25K669
		1.2	230	27 13/16"	3 1/4" to 6"	5.1	25K670	25K671	25K672
	14/2.5 fpm	2.4	460	25"	3 1/4" to 6"	4.5	25K676	25K677	25K678
		2.4	230	25"	3 1/4" to 6"	9.1	25K679	25K680	25K681
	28/4.5 fpm	4.7	460	25 5/8"	3 1/4" to 6"	8.3	25K685	25K686	25K687
		4.7	230	25 5/8"	3 1/4" to 6"	17.3	25K688	25K689	25K690
6000 lb.	17/3 fpm	4.7	460	32 1/8"	3 1/4" to 6"	8.3	25K694	25K695	25K696
		4.7	230	32 1/8"	3 1/4" to 6"	17.3	25K697	25K698	25K699
10000 lb.	11/2 fpm	4.7	460	33 1/2"	4" to 7"	8.3	25K704	25K705	25K706
		4.7	230	33 1/2"	4" to 7"	17.3	25K707	25K708	25K709

Find Trolleys on pages 1060 and 1061.



No. 6HJN5

H4-Rated NERM 3-Phase Electric Chain Hoists with Motorized Trolley

HARRINGTON

- Hoist and trolley are suitable for indoor or outdoor use
- Lightweight, die-cast aluminum body
- Fan-cooled motor with 60-min. duty rating
- Electromagnetic brake will not release unless motor is energized
- 5-pocket load sheave reduces chain vibration
- Grade 80 nickel-plated load chain
- Chain container included
- Upper and lower limit switches
- Trolley operates on S or W beams
- Side guide rollers for smooth travel along beam
- Rubber bumpers and drop stops
- Meet ANSI/ASME B30.16 and UL 1340

Note: See Grainger.com® for variable-speed options.

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
1000 lb.	15 fpm	0.75	230/460	15⅝"	2⅜2" to 5"	6.65	6HJL3	6HJL4	—
		0.75	230/460	15⅝"	2⅜2" to 5"	3.4	—	—	6HJL5
	29 fpm	1.2	230/460	15⅝"	2⅜2" to 5"	4.8	6HJL6	—	—
		1.2	230/460	15⅝"	2⅜2" to 5"	8	—	6HJL7	6HJL8
2000 lb.	14 fpm	1.2	230/460	17"	2⅜2" to 5"	8	6HJL9	6HJN0	—
		1.2	230/460	17 1/64"	2⅜2" to 5"	4.8	—	—	6HJN1
	28 fpm	2.4	230/460	17"	2⅜2" to 5"	11.8	6HJN2	6HJN3	—
		2.4	230/460	17 7/64"	2⅜2" to 5"	5.6	—	—	6HJN4
4000 lb.	14 fpm	2.4	230/460	22 1/16"	3⅜2" to 6 3/16"	11.8	6HJN5	6HJN6	—
		2.4	230/460	22 1/16"	3⅜2" to 6 3/16"	5.6	—	—	6HJN7
	28 fpm	4.7	230/460	23"	3⅜2" to 6 3/16"	19.6	6HJN8	6HJN9	—
		4.7	230/460	23"	3⅜2" to 6 3/16"	16.4	—	—	6HJP0
6000 lb.	17 fpm	4.7	230/460	32 15/16"	3⅜2" to 6 3/16"	19.6	6HJP1	6HJP2	—
		4.7	230/460	32 15/16"	3⅜2" to 6 3/16"	16.4	—	—	6HJP3
10000 lb.	11 fpm	4.7	230/460	33⅜2"	3 15/16" to 7⅜2"	21.5	6HJP4	6HJP5	—
		4.7	230/460	33⅜2"	3 15/16" to 7⅜2"	16.4	—	—	6HJP6



No. 6HJR6

H4-Rated SNER 1-Phase Electric Chain Hoists

HARRINGTON

- Hoist is suitable for indoor or outdoor use
- Compact, die-cast aluminum body
- Pull-rotor motor brake with no brake coil to fail
- Heat-treated, Grade 80 nickel-plated chain
- Chain container included
- Easy-access control panel
- Long-life friction clutch
- Load sheave design reduces vibration and wear
- Cast-iron chain guide provides smooth, quiet operation
- Meet ANSI/ASME B30.16

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
500 lb.	14 fpm	0.34	115/230	13 13/16"	7.7	6HJR6	6HJR7	6HJR8
1000 lb.	7 fpm	0.34	115/230	14"	7.7	6HJR9	6HJT0	6HJT1
	15 fpm	0.6	115/230	14⅝"	16.9	6HJT2	6HJT3	6HJT4
2000 lb.	7 fpm	0.6	115/230	16"	16.9	6HJT5	6HJT6	6HJT7
	14 fpm	1.2	115/230	17 5/16"	23.9	6HJT8	6HJT9	6HJU0
4000 lb.	7 fpm	1.2	115/230	22⅝"	23.9	6HJU1	6HJU2	6JFY9
6000 lb.	3.5 fpm	1.2	115/230	29½"	23.9	6JFZ0	6JFZ1	6JFZ2



No. 25K773

H4-Rated 1-Phase Electric Chain Hoists with Trolley

HARRINGTON

SNERP WITH PUSH TROLLEY

- Pull-rotor motor brake for reliability
- Hinged control panel, sealed housing, and durable load sheave
- Push trolley provides extra mobility
- Suitable for S or W beams
- Meet ANSI/ASME B30.16

SNERM WITH MOTORIZED TROLLEY

- Vibration-reducing load sheave
- Durable pull-rotor motor brake
- Low-headroom design
- Grade 80 nickel-plated load chain
- Chain container included
- Trolley operates on tapered or flat beams
- Side guide rollers for smooth movement and reduced wear
- Includes drop stops and rubber bumpers

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
SNERP 1-Phase Electric Chain Hoists with Push Trolley									
500 lb.	14 fpm	0.34	115/230	14⅝"	2¼" to 5"	7.7	25K764	25K765	25K766
1000 lb.	7 fpm	0.34	115/230	14⅝"	2¼" to 5"	7.7	25K767	25K768	25K769
	15 fpm	0.6	115/230	15⅝"	2¼" to 5"	16.9	25K770	25K771	25K772
2000 lb.	7 fpm	0.6	115/230	16½"	2¼" to 5"	16.9	25K773	25K774	25K775
	14 fpm	1.2	115/230	17 1/16"	2¼" to 5"	23.9	25K776	25K777	25K778
4000 lb.	7 fpm	1.2	115/230	22¼"	3¼" to 6"	23.9	25K779	25K780	25K781
6000 lb.	3.5 fpm	1.2	115/230	28⅞"	3¼" to 6"	23.9	25K782	25K783	25K784
SNERM 1-Phase Electric Chain Hoists with Motorized Trolley									
500 lb.	14 fpm	0.34	115/230	14⅝"	2⅜2" to 5"	7.7	6JFZ3	6JFZ4	6JFZ5
1000 lb.	7 fpm	0.34	115/230	14⅝"	2⅜2" to 5"	7.7	6JFZ6	6JFZ7	6JFZ8
	15 fpm	0.6	115/230	15 1/16"	2⅜2" to 5"	16.9	6JFZ9	6JGA0	6JGA1
2000 lb.	7 fpm	0.6	115/230	16½"	2⅜2" to 5"	16.9	6JGA2	6JGA3	6JGA4
	14 fpm	1.2	115/230	17 1/16"	2⅜2" to 5"	23.9	6JGA5	6JGA6	6JGA7
4000 lb.	7 fpm	1.2	115/230	22 3/16"	3⅜2" to 6 3/16"	23.9	6JGA8	6JGA9	6JGC0
6000 lb.	3.5 fpm	1.2	115/230	28 15/16"	3⅜2" to 6 3/16"	23.9	6JGC1	6JGC2	6JGC3

Find Trolleys on pages 1060 and 1061.

DEMAG
Cranes & Components

H4-Rated Electric Chain Hoists

- Pendant control
- CSA and HMI Certified

Gearbox, brake, and slip clutch are maintenance-free for up to 10 yr. Simple plug connections are located in a centralized area.



No. 33Z981

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Amps @ Low Volts	16-ft. Lift 2- to 12-ft. Control Cord Item No.	26-ft. Lift 12- to 22-ft. Control Cord Item No.
2-Speed							
250 lb.	32/8 fpm	0.3	230	3	2.9	33Z983	33Z984
			460	3	1.35	33Z981	33Z982
			575	3	1.2	33Z985	33Z986
500 lb.	24/6 fpm	0.48	230	3	3	33Z989	—
			460	3	1.55	33Z987	33Z988
			575	3	1.0	33Z990	—
1000 lb.	18/4.5 fpm	0.66	230	3	5	33Z993	—
			460	3	2.5	33Z991	33Z992
			575	3	1.8	33Z994	—
2000 lb.	16/4 fpm	1.2	230	3	4.5	33Z997	—
			460	3	2.25	33Z995	33Z996
			575	3	1.6	33Z998	—
4000 lb.		2.4	460	3	6.1	33Z999	34A001
			575	3	3.9	34A002	—
Variable Speed							
250 lb.	0 to 100 fpm	0.98	480	3	3.1	34A033	34A034
500 lb.	0 to 52 fpm		480	3	3.1	34A035	34A036
1000 lb.	0 to 26 fpm		480	3	2.9	34A037	34A038
2000 lb.	0 to 20 fpm	2.95	480	3	4.5	34A039	34A040
	0 to 40 fpm		480	3	4.5	34A041	—
4000 lb.	0 to 20 fpm		480	3	4.5	34A042	34A043
5000 lb.	0 to 13 fpm		480	3	4.5	34A044	—

HARRINGTON
A KITO GROUP COMPANY

H4-Rated NER Food-Grade 3-Phase Electric Chain Hoists

- Food-grade lubricants meet FDA standards
- Epoxy paint
- Nickel-painted load chain
- Stainless steel and nickel-plated components
- Designed for the food processing industry
- ASME H4 classification for high-duty cycle
- RoHS Compliant
- Meet ANSI/ASME B30.16



No. 33RV58

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
500 lb.	15 fpm	0.75	230/460	13 13/16"	3.4	33RV52	33RV53	33RV54
	15/2.5 fpm	0.75	460	13 13/16"	3.4	33RV64	33RV65	33RV66
1000 lb.	15 fpm	0.75	230/460	14 5/8"	3.4	33RV55	33RV56	33RV57
	15/2.5 fpm	0.75	460	14 5/8"	3.4	33RV67	33RV68	33RV69
2000 lb.	14 fpm	1.2	230/460	17"	4.8	33RV58	33RV59	33RV60
	14/2.5 fpm	1.2	460	17"	4.8	33RV70	33RV71	33RV72
4000 lb.	14 fpm	2.4	230/460	22 5/8"	2.4	33RV61	33RV62	33RV63
	14/2.5 fpm	2.4	460	22 5/8"	2.4	33RV73	33RV74	33RV75

HARRINGTON
A KITO GROUP COMPANY

H4-Rated TNER Theatrical Electric Hoists

- Matches common speed requirements
- Can fit in common road cases
- Handles offered as standard
- Outdoor-rated as standard
- Grease-packed gear-box
- Designed for the unique requirements of the theater industry
- 5-yr. brake warranty


No. 33RW54

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10-ft. Hoist Lift Item No.	60-ft. Hoist Lift Item No.
1000 lb.	16 fpm	0.65	230/460	13 13/16"	3.7	33RW49	33RW50
2000 lb.	16 fpm	1.3	230/460	16"	5.6	33RW51	33RW52
4000 lb.	8 fpm	1.3	230/460	22 13/16"	5.6	33RW53	33RW54

Find more information on Hoist selection on page 1050. Find Trolleys on pages 1060 and 1061.



No. 2XY32


No. 4GU72

H2-Rated Single-Phase Electric Chain and Wire Rope Hoists

Dayton

- Gears are enclosed in a sealed grease case
- Electric disc motor brakes
- Thermal overload protection
- 115V
- 1000- and 2000-lb. models include chain container
- Hardened alloy steel chain

Ideal for applications that require multiple lift points. Commercial-duty hoists feature latch-style swivel hooks for positive load engagement. Brakes stop and hold load, even during power loss, while upper and lower limit switches prevent chain overtravel. 12-min. "On" per hr. duty cycle. Include 13", 3-prong plug power cord. Meet NEMA 1 Standard, UL and C-UL Listed.

Electric Chain Hoists—¼-ton, 800-lb., and 1-ton capacity hoists are double-chained.

Electric Wire Rope Hoist—Paddle limit switch provides positive protection in the "Up" direction.

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10-ft. Hoist Lift 6-ft. Control Cord Item No.	15-ft. Hoist Lift 11-ft. Control Cord Item No.	20-ft. Hoist Lift 16-ft. Control Cord Item No.
Electric Chain Hoists									
300 lb.	14 fpm	0.16	115	1	14½"	3	**4GU70**	**2GTC9**	**2GTD1**
500 lb.	7 fpm	0.16	115	1	16"	3	**4GU71**	**2GTD2**	**2GTD3**
800 lb.	7 fpm	0.2	115	1	16¾"	3	**4ZY98**	**2GTD4**	**2GTD5**
1000 lb.	16 fpm	0.67	115	1	19³⁄₃₂"	10	**2XY32**	**2GTD6**	**2GTD7**
2000 lb.	8 fpm	0.66	115	1	22⁷⁄₁₆"	10	**2XY33**	**2GTD8**	**2GTD9**
Electric Wire Rope Hoist									
500 lb.	10 fpm	1/6	115	1	14½"	3.0	**4GU72**	— —	— —

Single-Phase Dual-Speed Electric Chain Hoists

HARRINGTON


No. 6HJP7

- Heat-treated gearing
- High-performance friction clutch
- Compact and lightweight, die-cast aluminum body
- Precise load positioning
- Chain container included
- Corrosion-resistant, nickel-plated load chain
- Meet ANSI/ASME B30.16, ASME HST-1, and NFPA 70 Standards

Single Adjustable Speed V-Models—Engineered with Smart Speed Technology so you can change the factory set speed to a higher speed with a simple adjustment inside the hoist. These compact units provide low headroom and are easily installed, transported, or stored. Perfect for industrial and commercial applications.

Dual-Speed—Low speed can be adjusted from 0 to 100% of maximum speed by setting a screw within pendant.

Ergonomic Dual Adjustable Speed—One-handed cylinder control frees other hand to easily position load. Rocker switch above handgrip permits easy low- and high-speed selection, while finger turn knobs set speeds from 0 to 100%.

Classification	Load Capacity	Lift Speed	Motor HP	Voltage	Min. Dist. Between Hooks	Amps	6-ft. LIFT Control Cord	6-ft. LIFT Item No.	10-ft. LIFT Control Cord	10-ft. LIFT Item No.	15-ft. LIFT Control Cord	15-ft. LIFT Item No.	20-ft. LIFT Control Cord	20-ft. LIFT Item No.
Single Adjustable-Speed V Models														
H2	250 lb.	16/26 fpm	0.4	120	12¹³⁄₃₂"	6	—	—	7 ft.	**49CZ46**	12 ft.	**49CZ47**	17 ft.	**49CZ48**
H2	350 lb.	16/44 fpm	0.8	120	13"	10	—	—	7 ft.	**49CZ49**	12 ft.	**49CZ50**	17 ft.	**49CZ51**
Dual-Speed DS Models														
H2	125 lb.	69/13 fpm	0.4	120	12¹³⁄₃₂"	5	—	—	7 ft.	**23XP92**	12 ft.	**23XP93**	16 ft.	**23XP94** *
H2	220 lb.	43/10 fpm	0.4	120	12¹³⁄₃₂"	5	—	—	7 ft.	**23XR03**	12 ft.	**23XR04**	16 ft.	**23XR05** *
H2	250 lb.	26/10 fpm	0.4	120	12⁷⁄₁₆"	5	—	—	6 ft.	**6HJP7**	11 ft.	**6HJP8**	16 ft.	**6HJP9**
H3	350 lb.	66/13 fpm	0.8	120	13"	10	—	—	7 ft.	**23XR18**	12 ft.	**23XR19**	17 ft.	**23XR20**
H3	525 lb.	44/10 fpm	0.8	120	13"	10	—	—	6 ft.	**6HJR0**	11 ft.	**6HJR1**	16 ft.	**6HJR2**
H3	1050 lb.	22/6 fpm	0.8	120	20½"	10	—	—	6 ft.	**6HJR3**	11 ft.	**6HJR4**	16 ft.	**6HJR5**
Dual Adjustable DA Models														
H2	125 lb.	69 fpm	0.4	120	37⁷⁄₃₂"	5	6 ft.	**1VW82**	—	—	—	—	—	—
H2	250 lb.	26 fpm	0.4	120	37⁷⁄₃₂"	6	6 ft.	**1VW83**	—	—	—	—	—	—
H3	350 lb.	66 fpm	0.8	120	37¹³⁄₁₆"	10	6 ft.	**1VW84**	—	—	—	—	—	—
H2	525 lb.	44/10 fpm	0.8	120	37¹³⁄₁₆"	10	6 ft.	**23XR37**	—	—	—	—	—	—

** 19 ft. Lift*

Tractel

Minifor® H3-Rated Single-Speed Portable Electric Wire Rope Hoists

- 1-phase
- Grease lubricated
- Electromagnetic cone brake
- Unlimited lift height
- 10-ft. pendant control
- NEMA 3R push-button control pendant

Electric Wire Rope Hoist No. 6XXG5



Lightweight, compact hoists lift loads to any height with unlimited length of wire rope that does not accumulate in hoist. Cast-aluminum housing and thermal overload protection. Sheaving doubles the load capacities. Wire Rope Assemblies are constructed of ¼"-dia. alloy steel wire rope with thimble eye and safety latch hook included. Meet ASME/ANSI B30.16 Standards.

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Dist. Between Hooks	Amps @ Low Volts	Item No.
Electric Wire Rope Hoists						
220 lb.	50 fpm	½	115	28⅛"	9.3	**6XXG5**
660 lb.	17 fpm	1.5	115	28⅛"	9.3	**6XXG6**
660 lb.	43 fpm	1.5	220	27¾"	20	**6XXG7**
1100 lb.	23 fpm	1.5	115	27¾"	20	**6XXG8**
1100 lb.	23 fpm	1.5	220	27¾"	10	**6XXG9**
Wire Rope Assemblies with Safety Latch Hook						
100 ft. Length						**6XXH0**
150 ft. Length						**6XXH1**
200 ft. Length						**6XXH2**

No. 5NPL3



No. 48RD44



No. 48RD45



OZ LIFTING PRODUCTS LLC

Electric Builder's Hoists

These hoists are designed for use on commercial building sites and in various construction workplaces, warehouses, storage facilities, and factories. Lightweight and compact for convenient mounting. Feature sensor arm for automatic shut-off to prevent reverse winding. Plug-in cords for ease of use. 360° hook rotation with safety latch. Built-in safety features and easy control of lifting for a wide range of applications.

Load Capacity	Lift	Lift Speed	Motor HP	Voltage	Phase	Amps	Item No.
500 lb.	90 ft.	75 fpm	1.3	115	1	17.5	**5NPL3**
1000 lb.	90 ft.	37 fpm	2	115	1	15.5	**48RD44**
Required Bracket							
Builders Hoist Bracket							**48RD45**

Dayton

500- to 2000-lb. Capacity Air Chain Hoists

- Operate on 48 cfm at 90 psi
- Heat-treated alloy steel spur gears
- Shoe-type brake
- Steel alloy load chain
- Upper and lower limit stops
- ½" NPT hose connection

Pendant throttle allows one-handed control. Aluminum frames and cover. Top and bottom latch hooks swivel 360°. 8-vane motor has tapped exhaust port. Meet ANSI/ASME B30.16 Standards.

Note: Air line lubricator required.



Air Chain Hoist
No. 29XL85

Load Capacity	Lift Speed	Min. Between Hooks	Reeving	Housing Length	Housing Width	10-ft. Lift Air Chain Hoists Item No.	20-ft. Lift Air Chain Hoists Item No.	Metal Chain Containers Item No.
500 lb.	65 fpm	15¼"	1	12⅛"	10⅜6"	29XL85	29XL90	29XL91
1000 lb.	45 fpm	15¼"	1	12⅛"	10⅜6"	29XL86	29XL87	29XL91
2000 lb.	23 fpm	18"	2	12⅛"	10⅜6"	29XL88	—	29XL91
2000 lb.	23 fpm	18"	2	12⅛"	10⅜6"	—	29XL89	29XL92

HARRINGTON

250- to 4000-lb. Capacity Air Chain Hoists

- Low headroom
- Fine feathering control for precise positioning
- Self-adjusting disc brake system
- Continuous-duty cycle
- Nickel-plated load chain and chain container included
- Built-in adjustable load limiter and limit switches
- Meet ANSI/ASME B30.16 Standards

AH Series hoists are compact and lightweight. TCS Series include external speed adjustment. TCR Series are designed for heavy load lifting with pilot air and spring-loaded vanes for ultimate load control.



AH Series



TCR Series



TCS Series

Load Capacity	Lift Speed	Min. Between Hooks	Reeving	Housing Length	Housing Width	Air Consumption	Control	10-ft. Lift Item No.	15-ft. Lift Item No.	20-ft. Lift Item No.
AH Series										
250 lb.	47 fpm	12"	1	9 1⁄16"	4"	32 scfm	Pull Cord	5DZF3	5DZF4	5DZF5
250 lb.	42 fpm	12"	1	9 1⁄16"	4"	28 scfm	Pendant	5DZF6	5DZF7	5DZF8
250 lb.	41 fpm	33"	1	11 5⁄16"	4"	28 scfm	Manipulator	5DZF9 *	—	—
250 lb.	41 fpm	45"	1	11 5⁄16"	4"	28 scfm	Manipulator	5DZG0 †	—	—
500 lb.	32 fpm	12"	1	9 1⁄16"	4"	29 scfm	Pull Cord	5DZG1	5DZG2	5DZG3
500 lb.	29 fpm	12"	1	9 1⁄16"	4"	26 scfm	Pendant	5DZG4	5DZG5	5DZG6
500 lb.	29 fpm	33"	1	9 1⁄16"	4"	26 scfm	Manipulator	5DZG7 *	—	—
500 lb.	29 fpm	45"	1	9 1⁄16"	4"	26 scfm	Manipulator	5DZG8 †	—	—
TCR Series										
500 lb.	52 fpm	18 3⁄16"	1	13½"	6 29⁄32"	48 scfm	Pull Cord	5DZJ7	5DZJ8	5DZJ9
500 lb.	52 fpm	18 3⁄16"	1	13½"	6 29⁄32"	48 scfm	Pendant	5DZK0	5DZK1	5DZK2
1000 lb.	37 fpm	18 3⁄16"	1	13½"	6 29⁄32"	48 scfm	Pull Cord	5DZK3	5DZK4	5DZK5
1000 lb.	37 fpm	18 3⁄16"	1	13½"	6 29⁄32"	48 scfm	Pendant	5DZK6	5DZK7	5DZK8
2000 lb.	21 fpm	18 5⁄16"	1	13½"	6 29⁄32"	53 scfm	Pull Cord	5DZK9	5DZL0	5DZL1
2000 lb.	21 fpm	18 5⁄16"	1	13½"	6 29⁄32"	53 scfm	Pendant	5DZL2	5DZL3	5DZL4
4000 lb.	11 fpm	21 13⁄16"	2	13½"	8"	53 scfm	Pull Cord	5DZL5	5DZL6	5DZL7
4000 lb.	11 fpm	21 13⁄16"	2	13½"	8"	53 scfm	Pendant	5DZL8	5DZL9	5DZN0
TCS Series										
500 lb.	121 fpm	16 5⁄16"	1	14 3⁄8"	8 1⁄16"	64 scfm	Pull Cord	5DZG9	5DZH0	5DZH1
500 lb.	121 fpm	16 5⁄16"	1	14 3⁄8"	8 1⁄16"	60 scfm	Pendant	5DZH2	5DZH3	5DZH4
1000 lb.	60 fpm	16 5⁄16"	1	14 3⁄8"	8 1⁄16"	60 scfm	Pull Cord	5DZH5	5DZH6	5DZH7
1000 lb.	60 fpm	16 5⁄16"	1	14 3⁄8"	8 1⁄16"	60 scfm	Pendant	5DZH8	5DZH9	5DZJ0
2000 lb.	30 fpm	17 7⁄8"	2	14 3⁄8"	9"	60 scfm	Pull Cord	5DZJ1	5DZJ2	5DZJ3
2000 lb.	30 fpm	17 7⁄8"	2	14 3⁄8"	6 3⁄16"	60 scfm	Pendant	5DZJ4	5DZJ5	5DZJ6

** 6½-ft. Lift † 13-ft. Lift*



No. 1VW51



No. 29XP24

Dayton

½- to 3-Ton Manually Operated Chain Hoists

- Load-tested to 125% of rated load
- Through-hardened load chain
- Available with optional Overload Protection

Lubricated roller bearings and bushings, bearing-mounted pinions, and heat-treated spur gearing. Hand chain hangs 2 ft. shorter than lift. Meet ANSI/ASME B30.16 Standards.

Load Capacity	Chain Pull to Lift Load†	Min. Between Hooks	8-ft. LIFT Item No.	10-ft. LIFT Item No.	15-ft. LIFT Item No.	20-ft. LIFT Item No.
No Overload Protection						
1000 lb.	58 lb.	11 2/64"	1VW54	1VW51	1VW52	1VW53
2000 lb.	60 lb.	13 25/32"	—	1VW55	1VW56	1VW57
4000 lb.	86 lb.	17 1/8"	—	1VW58	1VW59	1VW60
6000 lb.	91 lb.	21 17/64"	—	1VW61	1VW62	1VW63
Overload Protection						
1000 lb.	56 lb.	11 39/64"	—	29XP24	29XP25	29XP26
2000 lb.	73 lb.	12 63/64"	—	29XP27	29XP28	29XP29
4000 lb.	75 lb.	15 3/4"	—	29XP30	29XP31	29XP32
6000 lb.	78 lb.	20 5/64"	—	29XP33	29XP34	29XP35

† Pulling force in pounds required to lift rated load.



No. 6HJF4

HARRINGTON
A KITO GROUP COMPANY

½- to 5-Ton CF Series Hand Chain Hoists

- Die-cast aluminum body
- Weston-type load brake
- High-strength main pinion and load gear
- Heat-treated alloy steel hooks
- Economical design uses fewer parts
- Prelubricated ball bearings and precision-machined gears
- Meet ANSI/ASME B30.16 Standards

Designed for efficient, trouble-free service and exceptional durability.

Load Capacity	Chain Pull to Lift Load	Min. Between Hooks	10-ft. LIFT Item No.	15-ft. LIFT Item No.	20-ft. LIFT Item No.
No Overload Protection					
1000 lb.	60 lb.	12 13/16"	6HJF4	6HJF5	6HJF6
2000 lb.	72 lb.	14 5/8"	6HJF7	6HJF8	6HJF9
3000 lb.	84 lb.	17 5/16"	6HJG0	6HJG1	6HJG2
4000 lb.	80 lb.	20"	6HJG3	6HJG4	6HJG5
6000 lb.	92 lb.	23 3/16"	6HJG6	6HJG7	6HJG8
10,000 lb.	92 lb.	24 3/8"	6HJG9	6HJH0	6HJH1



No. 38EV02

Dayton

½- to 3-Ton Manually Operated Low Headroom Chain Hoists

- Self-adjusting brake
- ½- to 2-ton have single-reeved load chain; 3-ton are double-reeved

Low headroom features compact design and jamproof chain guide. Smooth operation is provided by friction-reducing roller and ball bearings. Hand chain hangs 1.64 ft. shorter than lift. Meets ANSI/ASME B30.16 Standards.

Load Capacity	Chain Pull to Lift Load†	Min. Between Hooks	10-ft. LIFT Item No.	15-ft. LIFT Item No.	20-ft. LIFT Item No.
No Overload Protection					
1000 lb.	49 lb.	10 5/8"	38EV02	38EV03	38EV04
2000 lb.	67 lb.	13 25/64"	38EV05	38EV06	38EV07
4000 lb.	101 lb.	16 11/32"	38EV08	38EV09	38EV10
6000 lb.	86 lb.	21 21/32"	38EV11	38EV12	38EV13

† Pulling force in pounds required to lift rated load.



HARRINGTON
A KITO GROUP COMPANY

¼- and ½-Ton CX Series Mini Hand Chain Hoists with Overload Protection

- Compact hoist with low headroom
- Weston-type brake
- Nickel-plated, Grade 100 load chain
- Standard overload protection
- Lightweight and compact design for high or difficult to reach places
- Meet ANSI/ASME B30.16

The best ratio of compact size to lifting power in the industry.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	8-ft. LIFT Item No.	10-ft. LIFT Item No.	20-ft. LIFT Item No.
Overload Protection					
500 lb.	33 lb.	8½"	45NV36	1AEX9	49CY84
1000 lb.	42 lb.	10¼"	—	49CY86	49CY88



No. 33RW71

HARRINGTON
A KITO GROUP COMPANY

½- to 20-Ton CB Series Manual Hand Chain Hoists with Overload Protection

- All-steel construction
- Low headroom and lightweight design
- Heat-treated alloy steel hooks
- Overload protection included
- Heavy-duty construction for demanding industrial applications
- Meet ANSI/ASME B30.16 Standards

These hoists offer one of the best size to lifting power ratios along with a heavy-duty industrial design.

Load Capacity	Chain Pull to Lift Load	Min. Between Hooks	8-ft. LIFT Item No.	12-ft. LIFT Item No.
Overload Protection				
1000 lb.	48 lb.	11 1/16"	33RW71	—
2000 lb.	58 lb.	11½"	33RW72	—
3000 lb.	70 lb.	13 13/16"	33RW73	—
4000 lb.	72 lb.	14 13/16"	33RW74	—
5000 lb.	66 lb.	16½"	33RW75	—
6000 lb.	72 lb.	20"	33RW76	—
10,000 lb.	68 lb.	23⅜"	33RW77	—
16,000 lb.	75 lb.	30"	33RW78	—
20,000 lb.	72 lb.	30"	—	33RW79
30,000 lb.	74 lb.	40¼"	—	33RW80
40,000 lb.	72 lb.	46½"	—	33RW81

HARRINGTON

1- to 10-Ton Ultra-Low Headroom Trolley Hoists



No. 6HJH2

- All-steel construction
- 20-ft. standard lift
- Double-enclosed brake cover
- Grade 100, heat-treated manganese alloy load chain
- Trolley wheels fit on both tapered and flat flanged beams
- Ideal for applications where longer hook travel is required
- Meet ANSI/ASME B30.16 Standards

Offering one of the lowest headroom hoists on the market today, these hoists provide a minimal distance between the bottom hook when at its highest point and the support beam.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	Fits Beam Flange W	Item No.
2000 lb.	59 lb.	4½"	2⁹⁄₃₂" to 6⁷⁄₆₄"	6HJH2
4000 lb.	54 lb.	5¾"	3¹⁵⁄₆₄" to 8¹⁄₃₂"	6HJH3
6000 lb.	63 lb.	6½"	3¹⁵⁄₆₄" to 8¹⁄₃₂"	6HJH4
10,000 lb.	75 lb.	7¾"	3¹⁵⁄₁₆" to 8¹⁄₃₂"	6HJH5
16,000 lb.	65 lb.	10"	5½" to 8²¹⁄₃₂"	6HJH6
20,000 lb.	81 lb.	10"	5½" to 8²¹⁄₃₂"	6HJH7

HARRINGTON

1- to 5-Ton NTH Navy Trolley Hoists



No. 45NV54

- Integral trolley for low headroom
- Easily adjustable flange width
- Can accommodate flat or tapered beam
- Meet ANSI/ASME B30.16 Standards

These hoists are designed for applications where headroom is limited. They combine the economical CF hand chain hoist with a unique permanently attached trolley resulting in an extremely durable and compact trolley/hoist for use in tight quarters. Flanged trolley wheels provide smooth travel.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	Item No.
2000 lb.	72 lb.	12½"	45NV54
4000 lb.	80 lb.	16½"	45NV55
6000 lb.	92 lb.	19"	45NV56
10,000 lb.	92 lb.	20¼"	45NV57

Dayton

550- and 1000-lb. Mini Ratchet Chain Pullers



- Weston-type load brake
- Single-stage reduction gearing
- Hardened and plated alloy steel load chain
- Load-tested
- Meet ANSI/ASME B30.21 Standards

One-handed operation from any position. Free-chaining feature enables quick load attachment. Constructed of forged steel. Upper and lower hooks include latches to secure loads. Feature rubber grip.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	Lift	Lever Length	Item No.
550 lb.	60 lb.	9¹⁄₁₆"	5 ft.	6¼"	5YGF5
1000 lb.	79 lb.	10³⁄₆₄"	10 ft.	8³⁵⁄₆₄"	425Z67



½-Ton 30-Ton

OZ LIFTING PRODUCTS LLC

¼- to 30-Ton Manually Operated Hand Chain Hoists with Overload Protection

- Load-tested at 150% capacity
- Forged alloy steel hooks with cast-steel safety latch and bolt-and-lock nut
- Weatherproof load-holding Weston-type brake with twin pawl design
- Fully enclosed gearing protects gears from debris and contamination

When activated, factory-set overload protection will not let hoist operate, but allows operator to lower load (if lifting) or release load (if pulling). Hand-wheel design enables hand chain to feed directly into wheel sprocket from any direction or angle. Lower block has a thrust bearing, allowing easy rotation of a suspended load without twisting load chain. Meet HMI and ANSI/ASME B30.16, CE, AS 1418.2 Standards. No. 48RD59 meets ASME B30.16 Standard.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	Housing Length	Housing Width	Housing Depth	10-ft LIFT Item No.	20-ft LIFT Item No.
500 lb.	27 lb.	10"	4¹⁹⁄₆₄"	3⁵¹⁄₆₄"	7³⁹⁄₆₄"	48RD59	—
1000 lb.	50 lb.	10⅝"	5¼"	5"	5⅛"	2YAY4	2YAY5
2000 lb.	66 lb.	12½"	6½"	6³⁄₁₆"	5½"	2YAY6	2YAY7
3000 lb.	70 lb.	15¹¹⁄₁₆"	7¼"	7⅜"	6⁵⁄₁₆"	2YAY8	2YAY9
4000 lb.	77 lb.	16⁵⁄₁₆"	8"	7⅜"	6⁵⁄₁₆"	2YAZ1	2YAZ2
6000 lb.	60 lb.	18⁵⁄₁₆"	7"	8¼"	6⁵⁄₁₆"	2YAZ3	2YAZ4
10,000 lb.	90 lb.	25"	9"	9¹⁵⁄₁₆"	7¼"	2YAZ5	2YAZ6
20,000 lb.	86 lb.	29½"	10"	14¹¹⁄₁₆"	7¼"	2YAZ7	2YAZ8
40,000 lb.	112 lb.	35½"	13"	25⁹⁄₁₆"	8⅜"	2YAZ9	2YCA1
60,000 lb.	112 lb.	48"	17"	25⅛"	18³⁄₁₆"	2YCA2	2YCA3

HARRINGTON

500- and 1000-lb. LX Series Mini Ratchet Chain Pullers



No. 4ZY93

- Rugged die-cast aluminum body with steel frame
- Weston-type load brake
- Designed for fine adjustment of load tension
- Compact, low headroom for use in tight quarters
- Strong hook latches with notched tip
- Nickel-plated, Grade 100 load chain
- Load-tested
- Meet ANSI/ASME B30.21 Standards

These pullers provide one of the best ratios of compact size to lifting power in the industry.

Load Capacity	Pull to Lift Rated Load	3-ft LIFT Item No.	5-ft LIFT Item No.	10-ft LIFT Item No.	15-ft LIFT Item No.	20-ft LIFT Item No.
500 lb.	40 lb.	45NV37	4ZY92	49CY80	49CY81	49CY82
1000 lb.	62 lb.	—	4ZY93	45NV38	45NV39	49CY83



Dayton

Lever-Operated ¾- to 3-Ton Chain Pullers

- Powder-coat finish
- Ratch and pawl mechanical load brake
- Zinc-plated hardened steel chain
- Single reeved
- Available with Overload Protection
- Weston-type brake
- Meet ANSI/ASME B30.21 Standards

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	5-ft LIFT Item No.	10-ft LIFT Item No.	15-ft LIFT Item No.	20-ft LIFT Item No.
No Overload Protection						
1500 lb.	31 lb.	12 51/64"	4ZX43	4ZX44	48ME55	4ZX45
3000 lb.	49 lb.	15 3/4"	4ZX46	4ZX47	48ME56	4ZX48
6000 lb.	71 lb.	20 15/32"	5HT16	4ZX49	48ME57	4ZX50
Overload Protection						
1500 lb.	31 lb.	12 51/64"	29XP45	29XP46	49CX78	29XP47
3000 lb.	49 lb.	15 3/4"	29XP48	29XP49	49CX79	29XP50
6000 lb.	71 lb.	20 15/32"	29XP53	29XP51	49CX80	29XP52



Dayton

Lever-Operated ¾- to 3-Ton Chain Pullers with Double Disc Brake

- Zinc-plated finish
- Dual-stage reduction gearing
- Metric rating, 2200 lb./ton
- Hardened, Grade 80 steel load chain
- Load-tested
- Available with Overload Protection

Double disc brake provides exact load positioning and tensioning. Capacity-adjusted handle force minimizes overloading. Short handle stroke with ribbed grip rotates 360°. Flip selector to neutral for free chaining. Hardened swivel hooks with safety latches secure and align loads. Steel construction with zinc-/nickel-/chrome-plated finish. Meet ANSI/ASME B30.21 Standards.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	5-ft LIFT Item No.	10-ft LIFT Item No.	20-ft LIFT Item No.
No Overload Protection					
1500 lb.	42 lb.	11 13/16"	3TP94	3TP92	3TP93
3000 lb.	46 lb.	14 3/8"	3TP97	3TP95	3TP96
6000 lb.	68 lb.	18 1/2"	3TR01	3TP98	3TP99
Overload Protection					
1500 lb.	42 lb.	11 13/16"	29XP38	29XP36	29XP37
3000 lb.	46 lb.	14 3/8"	29XP41	29XP39	29XP40
6000 lb.	68 lb.	18 1/2"	29XP44	29XP42	29XP43



HARRINGTON
A KITO GROUP COMPANY

Lever-Operated ¾- to 9-Ton Chain Pullers

- Compact, steel body
- Weston-style load brake
- Spring-loaded, free-wheeling device
- 360° hook rotation
- Dual-stage reduction gearing
- Hardened alloy steel, nickel-plated Grade 100 load chain
- Load-tested
- Use horizontally, vertically, inverted, or at any other load angle
- Meet ANSI/ASME B30.21 Standards
- Shipyard hooks are available on Grainger.com®

Spring-loaded, free-wheel device safeguards against accidental free wheeling. Designed with patented heat treating process on hooks to prevent fracturing under overloads. Durable internal components provide dropped load prevention in case of abuse.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	5-ft LIFT Item No.	10-ft LIFT Item No.	15-ft LIFT Item No.	20-ft LIFT Item No.
No Overload Protection						
1500 lb.	54 lb.	11"	1TAH9	1TAJ1	23XR44	23XR45
2000 lb.	72 lb.	11 13/16"	1TAJ2	1TAJ3	23XR48	23XR49
3000 lb.	64 lb.	13 13/64"	1TAJ4	1TAJ5	23XR50	23XR51
4000 lb.	59 lb.	14 13/16"	23XR57	23XR54	23XR55	23XR56
5500 lb.	81 lb.	14 13/16"	1TAJ6	1TAJ7	23XR58	23XR59
6000 lb.	69 lb.	15 39/64"	1TAJ8	1TAJ9	23XR60	23XR61
12000 lb.	72 lb.	21 5/16"	23XR67	23XR64	23XR65	23XR66
18000 lb.	78 lb.	26 13/16"	23XR75	23XR72	23XR73	23XR74
Overload Protection						
1500 lb.	36 lb.	11"	6HJE8	6HJE9	23XR46	23XR47
3000 lb.	45 lb.	13 13/64"	6HJF0	6HJF1	23XR52	23XR53
6000 lb.	69 lb.	15 39/64"	6HJF2	6HJF3	23XR62	23XR63
12000 lb.	72 lb.	21 5/16"	23XR71	23XR68	23XR69	23XR70



DZ LIFTING PRODUCTS LLC

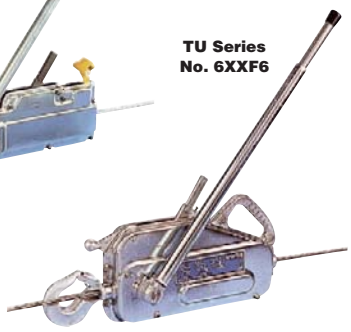
Lever-Operated ¾- to 9-Ton Chain Pullers with Overload Protection

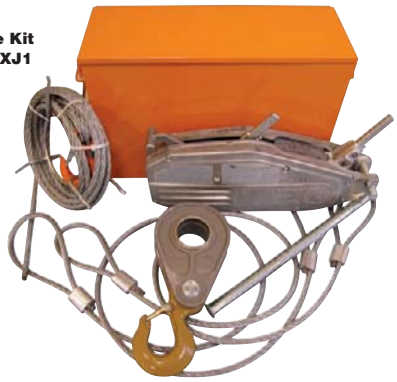
- Twin-pawl, weatherproof Weston-type load brake
- Zinc-plated steel chain
- Load-tested at 150% capacity
- Extra set of latches are included
- Meet CE, AS 1418.2 and ANSI B30.21 Standards

When activated, factory-set overload protection will not let hoist operate, but allows operator to lower the load. Feature safety chain stop, rubber grip, and fully enclosed lift wheel that protects gears. Powder-coat finish.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	5-ft LIFT Item No.	10-ft LIFT Item No.	15-ft LIFT Item No.	20-ft LIFT Item No.
1500 lb.	31 lb.	12 13/16"	5GAM7	5GAM8	5GAM9	5GAN0
3000 lb.	48 lb.	15"	5GAN1	5GAN2	5GAN3	5GAN4
6000 lb.	71 lb.	18 7/8"	5GAN5	5GAN6	5GAN7	5GAN8
12,000 lb.	75 lb.	24 3/8"	5GAN9	5GAP0	5GAP1	5GAP2
18,000 lb.	80 lb.	27 9/16"	5GAP3	5GAP4	5GAP5	5GAP6


T500 Series
No. 6XXG2


TU Series
No. 6XXF6


Rescue Kit
No. 6XXJ1

Tractel®

Griphoist®/Tirfor® Cable Hoists

Manual Cable Hoists—Portable, safe, reliable, and efficient lever-operated wire rope hoist with traversing wire rope. One-person operation allows lifting, pulling, or placing loads without exceeding maximum working load limit. .

- Overload protection
- No wire rope length limit
- Meet ASME/ANSI B30-21 Standards

Cable Hoist Rescue Kits—Include steel box with 60-ft. galvanized wire rope, telescopic handle for hoist, snatch block pulley, 6-ft. wire rope sling with choker hook, and 6-ft. and 9-ft. wire rope slings.

Lifting Capacity	Cable Length	Min. Between Hooks	Hook Opening	Item No.
Manual Cable Hoists				
T500 Series				
2000 lb.	30 ft.	20½"	1"	**6XXG2**
4000 lb.	60 ft.	26"	1"	**6XXG3**
8000 lb.	30 ft.	29"	1"	**6XXG4**
TU Series				
2000 lb.	30 ft.	28½"	1"	**6XXF6**
4000 lb.	60 ft.	36½"	1"	**6XXF8**
8000 lb.	30 ft.	32½"	1"	**6XXG0**
Rescue Kits				
2000 lb.	60 ft.	—	1"	**6XXJ1**
4000 lb.	60 ft.	—	1"	**6XXJ2**
8000 lb.	60 ft.	—	1"	**6XXJ3**

FIND MORE ONLINE
Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!


Cable Puller, Single Line
No. 3AY59


Rope Hoist/ Block Tackle
No. 4RU48


Web-Strap Puller
No. 4LY46


Cable Puller, Single/ Double Line
No. 4ZA73

Ratchet Pullers

Dayton® WESTWARD® TUF-TUG PRODUCTS

Positive-locking ratchet teeth have a larger metal surface engaging the holding mechanism. Large ratchet dia. with high tooth count permits accurate positioning of loads. Heat-treated, drop-forged steel latch hooks are zinc-plated to resist corrosion. Include preformed galvanized aircraft cable and a self-aligning cable guide that minimizes cable wear. Comply with ASME B30.21 requirements for pulling, lifting, and tensioning, except No. 3AY61.

CABLE PULLERS

Dual-interlocking ratchet-drive design centers load stresses across unit for easier operation while lifting or pulling. Zinc-plated solid steel construction with heat-treated levers and fasteners provides extra strength and durability. 28" tubular steel handle. ¼" cable dia. Unit can be used in single- and double-line configuration.

WEB-STRAP PULLERS

Dual ratchet-drive mechanism is designed for lasting durability in electrical utility work, construction, and industrial maintenance/repair operations. 1¾"W web strap is nonconductive when clean and dry.

Single-line web puller features 1" nylon web with red warning cores and a 23½" steel handle with vinyl grip. Safety-latched hooks rotate 360°.

ROPE HOIST/BLOCK & TACKLE

- 4:1 mechanical advantage
- 50-ft. rope

Assists with light industrial lifting, pulling, positioning, and stretching tasks. Roller cam lock holds load in position. Zinc-plated with heat-treated, drop-forged steel latch hooks will provide years of tough service. ⅜" rope dia.

Description	Lifting Capacity	Pull Capacity	Cable Length	Min. Between Hooks	Hook Opening	Brand	Item No.
Cable Pullers							
3/16" Cable, Single-Line	1000 lb.	2000 lb.	6 ft.	18"	⅞"	Dayton	**3AY59**
3/16" Cable, Single-Line	1000 lb.	2000 lb.	15 ft.	16"	¾"	Westward	**4LY45**
3/16" Cable, Single-Line Double-Line	1000/2000 lb.	2000/4000 lb.	15 ft.	18"	⅞"	Dayton	**3AY60**
3/16" Cable, Double-Line	1500 lb.	3000 lb.	7½ ft.	21"	1"	Westward	**4LY47**
3/16" Cable, Single-Line	500 lb.	1000 lb.	30 ft.	31"	¾"	Tuf-Tug	**48XW04**
7/32" Cable, Single-Line	700 lb.	1500 lb.	25 ft.	31"	13/16"	Tuf-Tug	**48XW03**
3/16" Cable, Single-Line	1000 lb.	2000 lb.	30 ft.	31"	¾"	Tuf-Tug	**48XW07**
7/32" Cable, Single-Line	1500 lb.	3000 lb.	25 ft.	31"	13/16"	Tuf-Tug	**48XW05**
3/16" Cable, Single-Line	3000 lb.	6000 lb.	6 ft.	31"	13/16"	Tuf-Tug	**48XW06**
¼" Cable, Single-Line Double-Line	1250/2500 lb.	2500/5000 lb.	20/10 ft.	27"	1"	Tuf-Tug	**4ZA73**
¼" Cable, Single-Line Double-Line	—	1700/3400 lb.	20/10 ft.	17"	⅞"	Dayton	**3AY61**
Web-Strap Pullers							
1" Nylon Strap	—	2000 lb.	—	17"	⅞"	Westward	**4LY46**
1¾" Nylon Strap	—	3000 lb.	—	24"	1"	Tuf-Tug	**2YB15**
1¾" Nylon Strap	—	6000 lb.	—	24"	1⅛"	Tuf-Tug	**6XDZ6**
Rope Hoist/Block and Tackle							
⅜" Rope	350 lb.	700 lb.	—	18"	⅝"	Tuf-Tug	**4RU48**
Accessories							
Y Pull Cable, ½ Ton Vertical Capacity						Tuf-Tug	**6XDZ8**
Zinc Plated Wire Clamp, 1000-lb Pull Capacity						Tuf-Tug	**6XDZ7**
Field Fence Pull Bar, 1000-lb Pull Capacity, Includes Attachment Cables						Tuf-Tug	**6XDZ9**



No. 3MB59

Push Trolleys

- Designed at 5:1 to hold either manual or powered hoists
- Fit flange widths up to 8.06"
- Permanently lubricated, sealed precision bearings

For use with tapered and flat beams. Steel construction with cast-iron wheels. Axles are rivet-locked in place and aligned. Safety-enhanced rail sweeps/drop stops. Suspension bail permits quick hoist changeout and use of oversized hooks.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
1000 lb.	4" to 24"	2⅝" to 8"	36"	6¼"	2¼"	3MB59
2000 lb.	5" to 24½"	3" to 8"	48"	6³⁄₁₆"	2¾"	3MB60
4000 lb.	6" to 24"	3⁵⁄₁₆" to 8"	60"	6¼"	4¼"	3MB61
6000 lb.	8" to 24"	4" to 8"	60"	8⅜"	4¼"	3MB62

** Dimensions given are for minimum I-beam and will vary with larger beams.*



No. 55HE58



No. 25K805

Quick-Install Push Trolleys

- Sealed bearings
- Include suspension bail

Attach lifting devices such as hoists to portable gantry cranes of permanent workstations. Steel trolleys utilize a manual screw to adjust flange width or tighten to keep trolley stationary. Accidental changes in trolley width are avoided through the use of a locking ring.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
With Bail						
1000 lb.	3" to 15"	2⅜" to 5⅝"	18⅜"	5" to 6⅛"	2³⁄₁₆"	55HE58
2000 lb.	5" to 24½"	3" to 8"	27⅜"	5⁹⁄₁₆" to 7¼"	2¹¹⁄₁₆"	55HE59
With Clamp						
2000 lb.	—	2½" to 8"	—	6⁵⁄₁₆"	2¹¹⁄₁₆"	25K805
4000 lb.	—	3" to 8"	—	6"	3⅛"	25K806
6000 lb.	—	3" to 8"	—	5¹⁵⁄₁₆"	3¹⁵⁄₁₆"	25K807
10,000 lb.	—	4" to 12"	—	7¹¹⁄₁₆"	4¾"	25K808
20,000 lb.	—	6" to 12"	—	7-1/6"	5¹⁵⁄₁₆"	25K809

** Dimensions given are for minimum I-beam and will vary with larger beams.*



No. 3MB57

Easy-Rolling Push Trolleys

- Use with electric, air, and manual hoists
- Fit flange widths up to 6"
- Sealed precision bearings

Maintenance-free trolleys have solid machined cast-iron wheels. Self-aligning, wraparound side plates prevent falls in case of wheel failure. Include universal hook plate.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
1000 lb.	4" to 10"	2¼" to 5"	24"	5²⁵⁄₃₂"	3⅛"	3MB56
2000 lb.	5" to 12"	2⅝" to 5⅝"	36"	6³⁄₃₂"	4"	3MB57
4000 lb.	6" to 18"	3⁵⁄₁₆" to 6⁵⁄₁₆"	48"	6⁷⁄₃₂"	4⅞"	3MB58

** Dimensions given are for minimum I-beam and will vary with larger beams.*



No. 6XTG8

DAVIDROUND
Engineered Handling Solutions Since 1869

Stainless Steel Trolleys

- FDA-Approved bearings and lubricants
- Meet ANSI/ASME B30.16 Standard

Ideal for washdown production areas. Sealed bearings for low- and high-temperature environments.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Head Room To Bail	Trolley Wheel Dia.	Item No.
2000 lb.	5" to 18"	3" to 6"	6"	3¼"	6XTG8
3000 lb.	6" to 24"	3⁵⁄₁₆" to 7"	6"	3¼"	6XTG9
4000 lb.	6" to 24"	3⁵⁄₁₆" to 7"	6"	3¼"	6XTH0

** Dimensions given are for minimum I-beam and will vary with larger beams.*



No. 36T678

Geared Beam Trolleys

Gearing provides positive load positioning along the beam. Lightweight trolleys fit most I-, S-, and W-beams. Designed with durable baked enamel paint protection and precision ball bearing wheels. Feature antidrop plate and individual ID tag. Individual test certificate and serial number included.

Load Capacity	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
2000 lb.	2½" to 8"	39"	4²³⁄₃₂"	2³¹⁄₆₄"	36T678
4000 lb.	3½" to 8"	51"	6⁵⁄₆₄"	2¹¹⁄₁₆"	36T679
6000 lb.	3½" to 8"	59"	7¼"	2⅝"	36T680
10,000 lb.	4½" to 8"	63"	9³⁄₃₂"	3⁵⁵⁄₆₄"	36T681
20,000 lb.	5" to 8"	118"	8⁵⁄₁₆"	5¹⁹⁄₆₄"	36T682
40,000 lb.	8¼" to 13"	157"	9⁶¹⁄₆₄"	6¹¹⁄₁₆"	36T683
60,000 lb.	5½" to 13"	197"	15¹¹⁄₃₂"	7⁵⁵⁄₆₄"	36T684

** Dimensions given are for minimum I-beam and will vary with larger beams.*

Caution! Obtain professional structural engineering assistance to determine load carrying capability of new and existing structural steel beam work.

Dayton HARRINGTON

Beam Clamps

- For commercial, construction, and industrial applications
- Adjustable to fit a wide range of beam sizes

Provide a temporary or permanent mount to tapered or flat I-beams. In addition, they position the load beneath the center of the I-beam. Designed to reduce I-beam stress by applying the load inside of the flange edge. Include suspension bar. Comply with ASME Standards.



No. 4ZW25

Safe Working Load	Jaw Cap.	Brand	Item No.
2000 lb.	3" to 7½"	Harrington	23XT08
	3" to 9"	Dayton	3KR11
4000 lb.	3" to 7½"	Harrington	23XT09
	3" to 9"	Dayton	3KR12
6000 lb.	4" to 12"	Harrington	23XT10
	3 3/16" to 12 19/32"	Dayton	3KR13
10,000 lb.	4" to 12"	Harrington	23XT11
	3 3/16" to 12 19/32"	Dayton	4ZW25
20,000 lb.	6" to 13¼"	Harrington	6HJH8

HARRINGTON

½- to 10-Ton Push Trolleys

- Contoured wheels
- Load equalizing suspension
- Maintenance-free sealed ball bearings
- Bearings are lubed for life
- Fit both tapered and flat-flanged beams
- Meet ANSI/ASME B30.11 Standards



No. 23XR94

Feature specially designed contoured wheels that fit both tapered and flat flange beams. Load equalizing suspension distributes the load to all wheels. Maintenance-free, sealed precision ball bearings are lubed for life and offer smooth movement, with low friction and long life.

Load Capacity	Fits Beam Flange W	Min. Radius Curve	Head Room To Bail	Item No.
1000 lb.	2 9/32 to 4"	13⅛"	3⅞"	23XR96
2000 lb.	2 9/32" to 5"	17¾"	4¼"	23XR97
4000 lb.	3 15/64" to 6 1/64"	21¾"	5⅛"	23XR98
6000 lb.	3 15/64" to 6 1/64"	25¾"	6⅞"	23XR99
10,000 lb.	4 59/64" to 8 21/32"	78⅛"	3⅞"	23XT01
16,000 lb.	5½" to 8 21/32"	118⅛"	4⅝"	23XR94
20,000 lb.	5½" to 8 21/32"	118⅛"	4⅝"	23XR95

Caldwell

Lifting and Spreader Beams

Provide safer lifting and movement for long, heavy objects with hoist or lifting equipment and a single-hook, point-of-lifting contact. Beams comply with ASME Standards.

Working Load Limit	Max. Spread	Min. Spread	Headroom	Overall Length	Item No.
Adjustable Spreader Beams w/Hooks					
4000 lb.	72"	48"	48 to 57"	72"	5TDH2
	120"	72"	72 to 88"	120"	5TDH3
	240"	144"	132 to 166"	240"	5TDH5
10,000 lb.	72"	48"	55 to 64"	72"	5TDH6
	120"	72"	79 to 95"	120"	5TDH7
	168"	96"	102 to 126"	168"	5TDH8
	240"	144"	138 to 172"	240"	5TDH9
20,000 lb.	72"	48"	60 to 69"	72"	5TDJ0
	120"	72"	74 to 111"	120"	5TDJ1
	168"	96"	108 to 132"	168"	5TDJ2
30,000 lb.	72"	48"	64 to 72"	72"	5TDJ4
	168"	96"	111 to 135"	168"	5TDJ6



Adjustable with Hooks
No. 5TDH2



Nonconductive
No. 8N230

Working Load Limit	Max. Spread	Min. Spread	Headroom	Overall Length	Item No.
Nonconductive Battery Spreader Beams					
4800 lb.	36"	36"	29"	36"	9G315
	42"	30"	39"	36"	8N230
7000 lb.	36"	36"	30"	36"	8RH01
	42"	30"	40½"	36"	8AJD4
	45"	24"	18¼"	50"	5TDK2

Caldwell

Composite Lifting and Spreader Beams

Beams are designed with an innovative composite material that is bonded together to form lightweight lifting products. Nonconductive, noncorrosive, and less than half the weight of steel. Meet ASME Standards.



No. 39RK28



No. 39RK08

Working Load Limit	Max. Spread	Headroom	Usable Upper Bail Length	Usable Upper Bail Width	Overall Length	Item No.
Lifting Beams						
500 lb.	24"	13½"	2"	1½"	24"	39RK28
	36"	13½"	2"	1½"	36"	39RK53
	48"	13½"	2"	1½"	48"	39RK68
	72"	16½"	2"	1½"	72"	39RK14
	96"	16½"	2"	1½"	96"	39RK29
1000 lb.	24"	13 15/16"	1 15/16"	1½"	24"	39RJ95
	36"	13 15/16"	1 15/16"	1½"	36"	39RK72
	48"	14 15/16"	1 15/16"	1½"	48"	39RK40
	72"	16 15/16"	1 15/16"	1½"	72"	39RK62
	96"	18 15/16"	1 15/16"	1½"	96"	39RK61
2000 lb.	24"	19⅜"	4½"	2 13/16"	24"	39RK23
	36"	19⅜"	4½"	2 13/16"	36"	39RJ94
	48"	21⅝"	4½"	2 13/16"	48"	39RK43
	72"	23⅝"	4½"	2 13/16"	72"	39RK75
4000 lb.	24"	21 13/16"	4 5/16"	2 13/16"	24"	39RK39
	36"	24⅛"	4 5/16"	2 13/16"	36"	39RK51
	48"	25 15/16"	4 5/16"	2 13/16"	48"	39RK22
6000 lb.	24"	24 15/16"	4 5/16"	2 13/16"	24"	39RK46
	36"	24 15/16"	4 5/16"	2 13/16"	36"	39RK32
Spreader Beams						
500 lb.	24"	24"	5"	2 13/16"	24"	39RK08
	36"	30"	5"	2 13/16"	36"	39RK17
	48"	36"	5"	2 13/16"	48"	39RK21
	72"	48"	5"	2 13/16"	72"	39RK07
	96"	60"	5"	2 13/16"	96"	39RK25

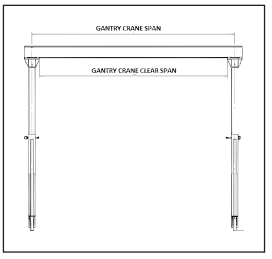
Working Load Limit	Max. Spread	Headroom	Usable Upper Bail Length	Usable Upper Bail Width	Overall Length	Item No.
1000 lb.	24"	24½"	5"	2 13/16"	24"	39RK20
	36"	30½"	5"	2 13/16"	36"	39RK27
	48"	36½"	5"	2 13/16"	48"	39RK26
	72"	48½"	5"	2 13/16"	72"	39RK18
	96"	62"	5"	2 13/16"	96"	39RK09
2000 lb.	24"	25"	5"	2 13/16"	24"	39RK31
	36"	31"	5"	2 13/16"	36"	39RK54
	48"	37"	5"	2 13/16"	48"	39RK65
	72"	51"	5"	2 13/16"	72"	39RK57
	96"	64"	5"	2 13/16"	96"	39RK50
4000 lb.	24"	27"	5"	2 13/16"	24"	39RK03
	36"	33"	5"	2 13/16"	36"	39RK34
	48"	40"	5"	2 13/16"	48"	39RK56
	72"	53"	5"	2 13/16"	72"	39RJ96
	96"	65"	5"	2 13/16"	96"	39RK33
6000 lb.	24"	27"	5"	2 13/16"	24"	39RK10
	36"	33"	5"	2 13/16"	36"	39RK13
	48"	42"	5"	2 13/16"	48"	39RK42
	72"	54"	5"	2 13/16"	72"	39RK35



Caldwell

Adjustable- and Fixed-Height Gantry Cranes

- Balanced design for easy rolling even under load
- Simple, bolt-together construction
- Easy set-up and maintenance
- Heavy-duty Conform to AISC, OSHA, and CMAA Specifications.



Adjustable-Height Aluminum—Lightweight, all-aluminum gantry cranes are perfect for applications where crane weight is critical. Height and span are adjustable. Height adjusts down from maximum in 6" increments.
- 4 poly-coated swivel casters

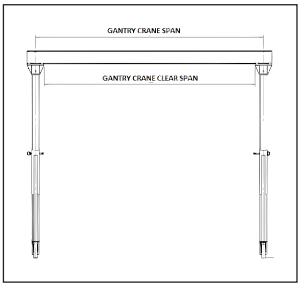
Adjustable-Height Steel—Heavy-duty, supported leg design. Adjustable span on 10- to 16-ft. models. Height adjusts down from maximum in 12" increments.
- 4 steel swivel casters

Fixed-Height Steel—Designed with supported legs for heavy-duty appliations. Adjustable span is standard. Assembly instructions provided.
- 4 steel swivel casters

Load Capacity	Min. I Beam Height	Max. I Beam Height	Gantry Crane Span	Gantry Crane Clear Span	I Beam Height	I Beam Flange Width	Wheel Dia.	Item No.
Adjustable-Height Aluminum								
2000 lb.	74 13/32"	110"	9 ft. 7½"	8 ft. 11"	8"	4"	6"	**40N133**
	74 13/32"	110"	11 ft. 7½"	10 ft. 10"	8"	4"	6"	**40N134**
	90"	129"	7 ft. 5½"	6 ft. 7"	6"	3.44"	6"	**40N129**
	90"	129 19/32"	9 ft. 7½"	8 ft. 11"	8"	4"	6"	**40N130**
	93 19/32"	129"	7 ft. 5½"	6 ft. 7"	6"	3.44"	6"	**40N135**
	93 19/32"	129"	9 ft. 7½"	8 ft. 8"	8"	4"	6"	**40N136**
	93 19/32"	129"	11 ft. 7½"	10 ft. 8"	8"	4"	6"	**40N137**
	114"	150"	11 ft. 7½"	10 ft. 10"	8"	4"	6"	**40N140**
	114"	150"	7 ft. 5½"	6 ft. 7"	6"	3.44"	6"	**40N138**
	114"	150"	9 ft. 7½"	8 ft. 8"	8"	4"	6"	**40N139**
	129 19/32"	110"	7 ft. 5½"	6 ft. 7"	6"	3.44"	6"	**40N132**
4000 lb.	66"	90"	9 ft. 4"	8 ft. 3"	10"	4.66"	8"	**40N142**
	66"	90"	7 ft. 2"	6 ft.	8"	4"	8"	**40N141**
	66"	90"	11 ft. 7"	10 ft. 6"	10"	4.66"	8"	**40N143**
	74 13/32"	110"	9 ft. 4"	8 ft. 3"	10"	4.66"	8"	**40N145**
	74 13/32"	110"	11 ft. 7"	10 ft. 6"	10"	4.66"	8"	**40N146**
	74 13/32"	110"	7 ft. 2"	6 ft.	8"	4"	8"	**40N144**
	93 19/32"	129"	11 ft. 7"	10 ft. 6"	10"	4.66"	8"	**40N149**
	93 19/32"	129"	7 ft. 2"	6 ft.	8"	4"	8"	**40N147**
	114"	150"	11 ft. 7"	10 ft. 6"	10"	4.66"	8"	**40N152**
	114"	150"	7 ft. 2"	6 ft.	8"	4"	8"	**40N150**
Adjustable-Height Steel								
2000 lb.	70 13/16"	108"	14 ft. 11½"	14 ft. 4"	8"	4"	6"	**40M901**
	72"	108"	12 ft. 11½"	12 ft. 5"	8"	4"	6"	**40M899**
	84"	120"	10 ft. 11½"	10 ft. 5"	6"	3.33"	6"	**40M905**
	88 13/16"	144"	14 ft. 11½"	14 ft. 4"	8"	4"	6"	**40M913**
	96"	144"	10 ft. 11½"	10 ft. 5"	6"	3.33"	6"	**40M911**
	96"	144"	12 ft. 11½"	12 ft. 5"	8"	4"	6"	**40M912**
	100 13/16"	168"	16 ft. 11½"	16 ft. 4"	10"	4.66"	6"	**40M920**
	108"	168"	10 ft. 11½"	10 ft. 5"	6"	3.33"	6"	**40M917**
4000 lb.	74 13/32"	108"	10 ft. 11½"	10 ft. 5"	8"	4"	8"	**40M935**
	86 13/32"	120"	10 ft. 11½"	10 ft. 5"	8"	4"	8"	**40M941**
	92"	144"	14 ft. 11½"	14 ft. 4"	10"	4.66"	8"	**40M949**
	98"	144"	10 ft. 11½"	10 ft. 5"	8"	4"	8"	**40M947**
	98"	144"	12 ft. 11½"	12 ft. 5"	8"	4"	8"	**40M948**
	104 13/16"	168"	14 ft. 11½"	14 ft. 4"	10"	4.66"	8"	**40M955**
	110 13/32"	168"	10 ft. 11½"	10 ft. 5"	8"	4"	8"	**40M953**
	110 13/32"	168"	12 ft. 11½"	12 ft. 5"	8"	4"	8"	**40M954**
6000 lb.	84"	120"	10 ft. 5½"	9 ft. 5"	10"	4.66"	8"	**40M977**
	106 13/16"	168"	14 ft. 5½"	9 ft. 5"	10"	4.66"	8"	**40M991**
	108"	168"	10 ft. 5½"	9 ft. 5"	10"	4.66"	8"	**40M989**
	108"	168"	12 ft. 5½"	11 ft. 5"	10"	4.66"	8"	**40M990**
8000 lb.	94 13/16"	144"	14 ft. 5½"	13 ft. 4"	12"	5.50"	8"	**40N022**
	96"	144"	10 ft. 5½"	9 ft. 5"	10"	4.66"	8"	**40N020**
	106 13/16"	168"	14 ft. 5½"	13 ft. 4"	12"	5.50"	8"	**40N028**
	108"	168"	20 ft. 4"	19 ft. 5"	15"	5.50"	8"	**40N030**
10000 lb.	108"	168"	10 ft. 5½"	9 ft. 5"	12"	5.50"	8"	**40N062**
16000 lb.	108"	168"	14 ft.	12 ft. 6"	18.00	6"	8"	**40N101**
Fixed-Height Steel								
2000 lb.	120"	120"	10 ft. 11"	10 ft. 4"	6"	3.33"	6"	**40M747**
	120"	120"	12 ft. 11"	12 ft. 4"	8"	4"	6"	**40M748**
	120"	120"	14 ft. 11"	14 ft. 4"	8"	4"	6"	**40M749**
	144"	144"	12 ft. 11"	12 ft. 4"	8"	4"	6"	**40M754**
4000 lb.	120"	120"	12 ft. 11"	12 ft. 4"	8"	4"	8"	**40M772**
	120"	120"	14 ft. 11"	14 ft. 4"	10"	4.66"	8"	**40M773**
	144"	144"	12 ft. 11"	12 ft. 4"	8"	4"	8"	**40M778**
	192"	192"	16 ft. 11"	16 ft. 4"	10"	4.66"	8"	**40M792**
10000 lb.	120"	120"	10 ft. 4½"	9 ft. 4"	12"	5.50"	8"	**40M844**
	192"	192"	14 ft. 4½"	13 ft. 4"	15"	5.50"	8"	**40M864**
16000 lb.	192"	192"	20 ft.	18 ft. 6"	16.43"	7.12"	8"	**40M890**







Portable Steel and Aluminum Gantry Cranes

GRAINGER APPROVED

- 4 swivel casters
- 2 uprights and 1 crossbar I-beam

Accept most manual and electric hoists and trolleys (not included). Ship unassembled.

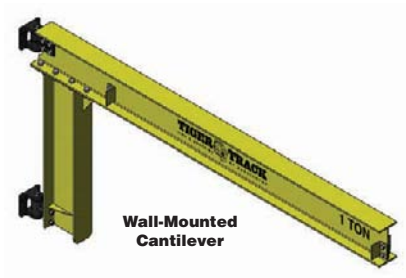
Heavy-Duty Steel—Casters feature a 4-position swivel lock in 90° intervals. Red paint finish.

Heavy-Duty Aluminum—Suitable for two-person assembly in the field or where repeated assembly and knock-down is required. Pinned-together modular design completely disassembles. Casters feature 4-position swivel locks in 90° intervals.

Adjustable-Height Models—Adjust in 6" increments by using come-along, fork truck, or overhead crane (not included). Uprights have ratchet puller/come-along attachment points.

Load Capacity	Min. I Beam Height	Max. I Beam Height	Gantry Crane Span	Gantry Crane Clear Span	I Beam Height	I Beam Flange Width	Wheel Dia.	Color	Item No.
Fixed-Height Heavy-Duty Steel									
2000 lb.	90"	90"	6 ft.	5 ft. 9"	4"	2.660"	5"	Blue	**48TC36**
	120"	120"	10 ft.	7 ft. 6"	6"	4"	8"	Blue	**48TC30**
	120"	120"	20 ft.	17 ft. 6"	10"	4"	8"	Blue	**48TC31**
4000 lb.	120"	120"	10 ft.	7 ft. 6"	8"	4"	8"	Blue	**48TC32**
Adjustable-Height Heavy-Duty Steel									
2000 lb.	90"	144"	10 ft.	7 ft. 6"	6"	4"	8"	Blue	**48TC25**
	102"	168"	15 ft.	12 ft. 6"	6"	4"	8"	Blue	**48TC27**
	114"	169"	10 ft.	7 ft. 6"	6"	4"	8"	Blue	**48TC26**
4000 lb.	90"	144"	10 ft.	7 ft. 6"	8.12"	4"	8"	Blue	**48TC28**
	102"	168"	10 ft.	7 ft. 6"	8.12"	4"	8"	Blue	**48TC29**
Adjustable-Height Heavy-Duty Aluminum									
2000 lb.	114"	144"	8 ft.	6 ft.	6"	3.31"	8"	Gray	**48TC23**
	114"	144"	12 ft.	10 ft.	8"	4"	8"	Gray	**48TC22**
4000 lb.	92"	122"	10 ft.	8 ft.	8"	4.19"	8"	Gray	**48TC24**







Jib Cranes and Mounting Kits

Caldwell
HARRINGTON

Cranes accommodate most standard trolleys that support electric or manual hoists. Anchor bolts not included. Mounting kits support hoists and trolleys (not included).

WALL-MOUNTED

Rotate up to 180° in large applications. Up to 35-ft. span on tie rod style. Heavy-duty fittings made with roller bearings and zerk fitting for easy field lubrication. Easily mount to reinforced columns or walls. Include beam with end stops, fitting kit, and assembly hardware. Painted safety yellow.

BASE-MOUNTED PILLARS

Rotate 360° on tapered roller bearings with self-aligning guide rollers. Heavy gussets reinforce base plates to ensure alignment and rigidity. Rolled steel, wide-flange beams provide smooth trolley travel, with stops at both ends. Concrete footing required.

Cap.	Reach	Brand	Item No.
Wall Mounted			
Tie Rod			
1100 lb.	10 ft.	Harrington	**48ZG92**
1100 lb.	14 ft.	Harrington	**48ZG93**
2200 lb.	14 ft.	Harrington	**48ZG94**
2200 lb.	20 ft.	Harrington	**48ZG95**
Cantilever			
550 lb.	10 ft.	Harrington	**48ZH03**
1100 lb.	10 ft.	Harrington	**48ZG96**
1100 lb.	14 ft.	Harrington	**48ZG97**
2200 lb.	10 ft.	Harrington	**48ZG98**
2200 lb.	14 ft.	Harrington	**48ZG99**
4400 lb.	10 ft.	Harrington	**48ZH01**
4400 lb.	14 ft.	Harrington	**48ZH02**

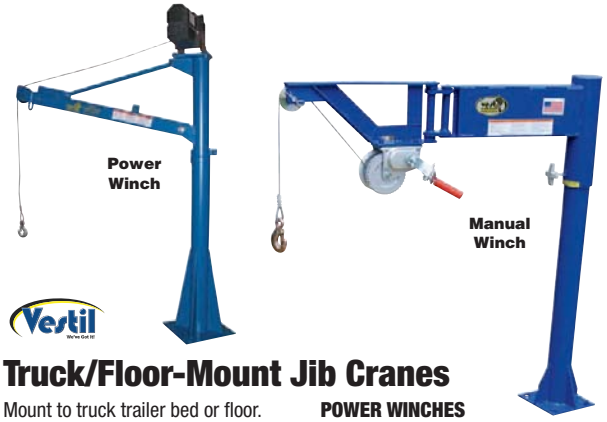
Reach	Height Under Span	Brand	Item No.
Base Mounted			
500-lb. Capacity			
8 ft.	8 ft.	Caldwell	**40M367**
	10 ft.	Caldwell	**40M374**
	12 ft.	Caldwell	**40M381**
	14 ft.	Caldwell	**40M388**
	16 ft.	Caldwell	**40M395**
	18 ft.	Caldwell	**40M403**
	20 ft.	Caldwell	**40M410**
10 ft.	8 ft.	Harrington	**48ZH16**
	10 ft.	Harrington	**48ZH15**
	12 ft.	Caldwell	**40M382**
	14 ft.	Caldwell	**40M389**
	16 ft.	Caldwell	**40M396**
	18 ft.	Caldwell	**40M404**
	20 ft.	Caldwell	**40M411**
12 ft.	8 ft.	Caldwell	**40M369**
	10 ft.	Harrington	**48ZH17**
	12 ft.	Caldwell	**40M383**
	14 ft.	Caldwell	**40M390**
	16 ft.	Caldwell	**40M397**
	18 ft.	Caldwell	**40M405**
	20 ft.	Caldwell	**40M412**
14 ft.	8 ft.	Caldwell	**40M370**
	10 ft.	Caldwell	**40M377**
	12 ft.	Caldwell	**40M384**
	14 ft.	Caldwell	**40M391**
	16 ft.	Caldwell	**40M398**
	18 ft.	Caldwell	**40M406**
	20 ft.	Caldwell	**40M413**
16 ft.	8 ft.	Caldwell	**40M371**
	10 ft.	Caldwell	**40M378**
	12 ft.	Caldwell	**40M385**
	14 ft.	Caldwell	**40M392**
	16 ft.	Caldwell	**40M399**
	18 ft.	Caldwell	**40M407**
	20 ft.	Caldwell	**40M414**
18 ft.	8 ft.	Caldwell	**40M372**
	10 ft.	Caldwell	**40M379**
	12 ft.	Caldwell	**40M386**
	14 ft.	Caldwell	**40M393**
	16 ft.	Caldwell	**40M401**
	18 ft.	Caldwell	**40M408**
	20 ft.	Caldwell	**40M415**
20 ft.	8 ft.	Caldwell	**40M373**
	10 ft.	Caldwell	**40M380**
	12 ft.	Caldwell	**40M387**
	14 ft.	Caldwell	**40M394**
	16 ft.	Caldwell	**40M402**
	18 ft.	Caldwell	**40M409**
	20 ft.	Caldwell	**40M416**
1000-lb. Capacity			
8 ft.	8 ft.	Harrington	**48ZH10**
	10 ft.	Caldwell	**40M424**
	12 ft.	Caldwell	**40M431**
	14 ft.	Caldwell	**40M438**
	16 ft.	Caldwell	**40M445**
	18 ft.	Caldwell	**40M452**
	20 ft.	Caldwell	**40M459**
10 ft.	8 ft.	Harrington	**48ZH05**
	10 ft.	Harrington	**48ZH04**
	12 ft.	Caldwell	**40M432**
	14 ft.	Caldwell	**40M439**
	16 ft.	Caldwell	**40M446**
	18 ft.	Caldwell	**40M453**
	20 ft.	Caldwell	**40M460**
12 ft.	8 ft.	Caldwell	**40M419**
	10 ft.	Harrington	**48ZH07**
	12 ft.	Caldwell	**40M433**
	14 ft.	Caldwell	**40M440**
	16 ft.	Caldwell	**40M447**
	18 ft.	Caldwell	**40M454**
	20 ft.	Caldwell	**40M461**
14 ft.	8 ft.	Caldwell	**40M420**
	10 ft.	Harrington	**48ZH08**
	12 ft.	Caldwell	**40M434**
	14 ft.	Caldwell	**40M441**
	16 ft.	Caldwell	**40M448**
	18 ft.	Caldwell	**40M455**
	20 ft.	Caldwell	**40M462**
16 ft.	8 ft.	Caldwell	**40M421**
	10 ft.	Caldwell	**40M428**
	12 ft.	Harrington	**48ZH09**
	14 ft.	Caldwell	**40M442**
	16 ft.	Harrington	**48ZH21**
	18 ft.	Caldwell	**40M456**
	20 ft.	Caldwell	**40M463**
18 ft.	8 ft.	Caldwell	**40M422**
	10 ft.	Caldwell	**40M429**
	12 ft.	Caldwell	**40M436**
	14 ft.	Caldwell	**40M443**
	16 ft.	Caldwell	**40M450**
	18 ft.	Caldwell	**40M457**
	20 ft.	Caldwell	**40M464**
20 ft.	8 ft.	Caldwell	**40M423**
	10 ft.	Caldwell	**40M430**
	12 ft.	Harrington	**48ZH22**
	14 ft.	Caldwell	**40M444**
	16 ft.	Caldwell	**40M451**
	18 ft.	Caldwell	**40M458**
	20 ft.	Caldwell	**40M465**
2000-lb. Capacity			
8 ft.	8 ft.	Caldwell	**40M466**
	10 ft.	Caldwell	**40M473**
	12 ft.	Caldwell	**40M480**
	14 ft.	Caldwell	**40M487**
	16 ft.	Caldwell	**40M494**
	18 ft.	Caldwell	**40M502**
	20 ft.	Caldwell	**40M509**
10 ft.	8 ft.	Caldwell	**40M467**
	10 ft.	Harrington	**48ZH12**
	12 ft.	Harrington	**48ZH13**
	14 ft.	Caldwell	**40M488**
	16 ft.	Caldwell	**40M495**
	18 ft.	Caldwell	**40M503**
	20 ft.	Caldwell	**40M510**
12 ft.	8 ft.	Caldwell	**40M468**
	10 ft.	Caldwell	**40M475**
	12 ft.	Harrington	**48ZH23**
	14 ft.	Caldwell	**40M489**
	16 ft.	Caldwell	**40M496**
	18 ft.	Caldwell	**40M504**
	20 ft.	Caldwell	**40M511**
14 ft.	8 ft.	Caldwell	**40M469**
	10 ft.	Caldwell	**40M476**
	12 ft.	Caldwell	**40M483**
	14 ft.	Harrington	**48ZH24**
	16 ft.	Caldwell	**40M497**
	18 ft.	Caldwell	**40M505**
	20 ft.	Caldwell	**40M512**
18 ft.	8 ft.	Caldwell	**40M471**
	10 ft.	Caldwell	**40M478**
	12 ft.	Harrington	**48ZH25**
	14 ft.	Caldwell	**40M492**
	16 ft.	Caldwell	**40M499**
	18 ft.	Caldwell	**40M507**
	20 ft.	Caldwell	**40M514**
20 ft.	8 ft.	Caldwell	**40M472**
	10 ft.	Caldwell	**40M479**
	12 ft.	Harrington	**48ZH26**
	14 ft.	Caldwell	**40M493**
	16 ft.	Caldwell	**40M501**
	18 ft.	Caldwell	**40M508**
	20 ft.	Caldwell	**40M515**
4000-lb. Capacity			
8 ft.	8 ft.	Caldwell	**40M516**
	10 ft.	Caldwell	**40M521**
	12 ft.	Caldwell	**40M528**
	14 ft.	Caldwell	**40M535**
	16 ft.	Caldwell	**40M542**
	18 ft.	Caldwell	**40M549**
	20 ft.	Caldwell	**40M556**
10 ft.	8 ft.	Caldwell	**40M517**
	10 ft.	Harrington	**48ZH27**
	12 ft.	Caldwell	**40M529**
	14 ft.	Caldwell	**40M536**
	16 ft.	Caldwell	**40M543**
	18 ft.	Caldwell	**40M550**
	20 ft.	Caldwell	**40M557**
12 ft.	8 ft.	Caldwell	**40M518**
	10 ft.	Caldwell	**40M523**
	12 ft.	Caldwell	**40M530**
	14 ft.	Caldwell	**40M537**
	16 ft.	Caldwell	**40M544**
	18 ft.	Caldwell	**40M551**
	20 ft.	Caldwell	**40M558**
14 ft.	8 ft.	Caldwell	**40M519**
	10 ft.	Caldwell	**40M524**
	12 ft.	Harrington	**48ZH28**
	14 ft.	Harrington	**48ZH29**
	16 ft.	Caldwell	**40M545**
	18 ft.	Caldwell	**40M552**
	20 ft.	Caldwell	**40M559**
16 ft.	12 ft.	Harrington	**48ZH30**
	14 ft.	Caldwell	**40M539**
	12 ft.	Harrington	**48ZH31**
18 ft.	12 ft.	Caldwell	**40M533**
	16 ft.	Caldwell	**40M547**
	18 ft.	Caldwell	**40M554**
	20 ft.	Caldwell	**40M561**
20 ft.	10 ft.	Caldwell	**40M527**
	12 ft.	Caldwell	**40M534**
	16 ft.	Caldwell	**40M548**
	18 ft.	Caldwell	**40M555**
	20 ft.	Caldwell	**40M562**
6000-lb. Capacity			
8 ft.	12 ft.	Harrington	**48ZH34**
10 ft.	10 ft.	Harrington	**48ZH32**
	10 ft.	Caldwell	**40M564**
12 ft.	12 ft.	Caldwell	**40M572**
	16 ft.	Caldwell	**40M586**
	18 ft.	Caldwell	**40M593**
14 ft.	14 ft.	Harrington	**48ZH33**
16 ft.	16 ft.	Caldwell	**40M588**
10000-lb. Capacity			
12 ft.	16 ft.	Caldwell	**40M627**



Steel Davit Cranes

Individually tested and certified at 125%. Each davit crane features 360° rotation with four different boom height adjustments. Optional AC and DC winches. Cranes include mounting base and steel cable.

Cap.	Lift Range	Finish	Base Type	MANUAL OPERATION Item No.	115VAC OPERATION Item No.	12VDC OPERATION Item No.
1000 lb.	0" to 600"	Zinc Plated	Socket Base	**302J59**	**302J61**	**302J64**
1000 lb.	0" to 600"	Zinc Plated	Pedestal Base	**302J60**	**302J62**	**302J63**
1000 lb.	0" to 80"	Painted Mil-Spec Zinc	Pedestal Base	**321H27**	**321H28**	**321H29**



Truck/Floor-Mount Jib Cranes

Mount to truck trailer bed or floor. Crane swivels 360°, and boom manually telescopes. Steel construction with painted finish. Mounting base has predrilled holes (hardware not included).

MANUAL WINCH

Boom is raised with manual hydraulic hand pump. Cable winch raises and lowers the lifting hook. 8" x 8" base plate.

POWER WINCHES

- 12" x 12" base plate

DC Models

50-ft., 3/16"-dia. wire cable and 12½-ft. power cord for attaching to truck battery (battery not included). Handheld remote control on 8-ft. cord.

AC Models

25-ft., ¼"-dia. wire cable and 9-ft. power cord have molded plug. They operate with toggle switch on side of winch.

Cap.	Reach	Lift Range	Item No.
Manual Winch			
400 lb.	0" to 38.5"	0" to 120"	**4ZB24**
Power Winches, 12VDC			
1500 lb.	43.06" to 66.75"	47⅛" to 73⅝"	**4ZB22**
2000 lb.	51.25" to 87.25"	59½" to 106½"	**4ZB20**
Power Winches, 115VAC			
1500 lb.	43.06" to 66.75"	48⅛" to 73⅝"	**4ZB23**
2000 lb.	51.25" to 87.25"	59½" to 106½"	**4ZB21**



CompOZite Davit Cranes

DAVIT CRANES

Cranes use a combination of advanced composite materials and Mil-Spec, zinc-plated steel to create a light, long-lasting, and easy-to-use system for lifting. Composite material also has excellent corrosion resistance. Each crane is proof tested and includes a test certificate.

MOUNTING BASES

Include mounting pattern template. Wall-mount base has a 360° swivel angle.

CABLES

The galvanized assembly is good for general purpose, and the stainless steel is ideal for corrosive environments.

Cap.	Lift Range	Finish	Operation Mode	Item No.
Davit Cranes				
1200 lb.	0 to 960"	Painted Mil-Spec Zinc	115VAC	**48RD46**
1200 lb.	0 to 960"	Painted Mil-Spec Zinc	12VDC	**48RD47**
1200 lb.	0 to 960"	Painted Mil-Spec Zinc	Manual	**49P538**

Description	Cap.	Finish	Item No.
Mounting Bases			
Socket Base	1200 lb.	Mil-Spec Zinc Plated	**49P539**
Pedestal Base	1200 lb.	Mil-Spec Zinc Plated	**49P540**
Wall Mount Base	1200 lb.	Powder Coated	**53DN42**

Cable Size	L	Working Load Limit	Material	Item No.
Cables for 49P538				
3/16"	80 ft.	800 lb.	Galvanized Steel	**49P541**
3/16"	80 ft.	800 lb.	Stainless Steel	**49P542**
¼"	55 ft.	1200 lb.	Galvanized Steel	**49P543**
¼"	55 ft.	1200 lb.	Stainless Steel	**49P544**

Description	Item No.
Cables for 48RD46, 48RD47	
Cable Assembly, Galvanized, 3/16" x 90 ft.	**58RH60**
Cable Assembly, Stainless Steel, 3/16" x 90 ft.	**58RH61**
Cable Assembly, Galvanized, ¼" x 45 ft.	**58RH62**
Cable Assembly, Stainless Steel, ¼" x 45 ft.	**58RH63**



Counterbalanced Mobile Floor Cranes

Counterbalanced design eliminates the need for front legs. Allows easier maneuverability in tight and hard-to-reach areas. Boom is raised with a manual hydraulic hand pump.

Cap.	Lifting Height Max. (in.)	Lifting Height Min. (in.)	Boom Length (in.)	Item No.
500	90	5	53½" to 77½"	**5XPG3**
1000	90	5	53½" to 77½"	**5XPG4**
2000	96	15	53½" to 77½"	**5XPG5**

GA GRAINGER APPROVED

Handheld Vacuum Cups

Units feature a rubber platform, red-line vacuum indicator, check valve, and instant-release lift tabs. Include carrying case.


No. 24VT69


No. 24VT71

Cup Size	Handle Material	Handle Type	Max. Load Capacity	Item No.
6" dia.	Nylon	T-Handle	70 lb.	24VT69
8" dia.	ABS Plastic	Horizontal Handle	125 lb.	24VT70
8" dia.	Metal	Horizontal Handle	125 lb.	24VT71
9" dia.	Metal	Horizontal Handle	150 lb.	24VT72
10" dia.	Metal	Horizontal Handle	175 lb.	24VT73

Handheld Vacuum Cups

Attach to most nonporous surfaces without marring or scratching. For metal, glass, stone, concrete, laminates, and plastics. A finger-operated vacuum pump removes air from between the load and the rubber vacuum pad to hold the cup in place. A red-line indicator provides a visual warning if cup should lose holding power. Includes a heavy plastic pad protector, except Nos. 2MDE3 and 2MDE4. Nos. 6A985 to 6A988 include a plastic carrying case.


No. 2MDE3


No. 2MDE4


No. 6A984


No. 6A988

Cup Size	Handle Material	Handle Type	Max. Load Capacity	Item No.
1½" dia.	Polypropylene	Vertical Handle	3 lb.	2MDE3
3" x 6" Oblong	Aluminum	T-Handle	40 lb.	2MDE4
4½" dia.	Aluminum	T-Handle	40 lb.	2MDE5
6" dia.	Metal	Vertical Handle	70 lb.	6A984
6" dia.	Aluminum	T-Handle	70 lb.	2MDE6
8" dia.	ABS Plastic	Horizontal Handle	125 lb.	6A985
8" dia.	Metal	Horizontal Handle	125 lb.	6A986
9" dia.	Metal	Horizontal Handle	150 lb.	6A987
10" dia.	Metal	Horizontal Handle	175 lb.	6A988

Plate, Girder, and Handgrip Clamps

DAYTON®

Clamps are equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered. 300% overload factory tested.

WARNING: Universal Plate Clamps

DO NOT use to lift loads that weigh less than 20% of the working load limit (e.g., 3300-lb. clamp should only be used for plates weighing 660 to 3300 lb.). Lift only one plate at a time.

RENFROE

Clamps are equipped with a safety mechanism, ensuring the clamp's gripping surface remains in contact with the plate when no load is applied or during no load conditions. All clamps are proof tested prior to shipment.

WARNING: Plate Clamps

Use the proper size clamp for the load. Lift only one plate at a time when using vertical plate lifting clamps. See the manufacturer's manual for additional warnings.

Locking Type	Lifting Point	Safe Working Load	Jaw Cap.	Pkg. Qty.	Brand	Item No.
Horizontal Lift						
Plate Clamps						
Load Activated	Shackle Eye	16,000 lb.	0" to 3"	1	Renfroe	48GP91
Nonlocking	Load Ring	500 lb.	0" to 1"	2	Renfroe	36G568
	Load Ring	1000 lb.	0" to 2"	2	Renfroe	36G569
	Load Ring	3000 lb.	0" to 2"	2	Renfroe	36G571
Vertical and 90 Lifting						
Plate Clamps						
Lock Closed	Load Ring	1000 lb.	0" to ¾"	1	Renfroe	36G558
	Load Ring	2000 lb.	0" to ¾"	1	Renfroe	36G559
	Load Ring	4000 lb.	0" to 1"	1	Renfroe	36G560
	Load Ring	6000 lb.	0" to 1¼"	1	Renfroe	36G561
Vertical Lift						
Beam Clamps						
Locking Screw	Load Ring	6000 lb.	3" to 7½"	1	Renfroe	36G566
	Load Ring	10,000 lb.	6" to 10"	1	Renfroe	36G567
Plate Clamps						
Load Activated	Load Ring	220 to 1100 lb.	0" to ⅝"	1	Dayton	22NC07
	Pivoting Shackle Eye	440 to 2200 lb.	0" to ¾"	1	Dayton	22NC10
	Load Ring	660 to 3300 lb.	0" to ¾"	1	Dayton	22NC08
	Load Ring	880 to 4400 lb.	0" to 1"	1	Dayton	22NC06
	Shackle Eye	1000 lb.	0" to ⅝"	1	Renfroe	48GP78
	Pivoting Shackle Eye	1000 lb.	0" to ⅝"	1	Renfroe	48GP80
	Pivoting Shackle Eye	1320 to 6600 lb.	0" to 1¼"	1	Dayton	22NC12
	Shackle Eye	2000 lb.	0" to ¾"	1	Renfroe	48GP79
	Pivoting Shackle Eye	2000 lb.	0" to ¾"	1	Renfroe	48GP81
	Shackle Eye	4000 lb.	0" to 1"	1	Renfroe	48GP82
	Pivoting Shackle Eye	4000 lb.	0" to 1"	1	Renfroe	48GP83
	Shackle Eye	6000 lb.	0" to 1"	1	Renfroe	48GP84
	Pivoting Shackle Eye	6000 lb.	0" to 1"	1	Renfroe	48GP85
Vertical Lift with Side Pull						
Plate Clamps						
Load Activated	Pivoting Shackle Eye	1000 lb.	0" to ⅝"	1	Renfroe	36G562
	Pivoting Shackle Eye	2000 lb.	0" to ¾"	1	Renfroe	36G563
	Pivoting Shackle Eye	4000 lb.	0" to 1"	1	Renfroe	36G564
Locking Screw	Connecting Link	3000 lb.	0" to 1¼"	1	Renfroe	36G577
	Connecting Link	6000 lb.	0" to 2"	1	Renfroe	36G578
Vertical Only Lifting						
Plate Clamps						
Lock Closed	Load Ring	1000 lb.	0" to ¾"	1	Renfroe	36G554
	Load Ring	2000 lb.	0" to ¾"	1	Renfroe	36G555
	Load Ring	4000 lb.	0" to 1"	1	Renfroe	36G556
	Load Ring	6000 lb.	0" to 1¼"	1	Renfroe	36G557


No. 36G568


No. 22NC06


No. 36G562

Caldwell

Pallet and Adjustable Load Lifters

These lifters allow the user to convert an overhead crane into a lift truck to handle palletized loads. No slings or chains necessary. Pallet lifters have 48" throat height, adjustable load lifter has 40 11/16" min., 52 11/16" mid., and 64 3/16" max. throat heights. Meet ASME B30.20 Standards.



Adjustable Lifter

Fixed-Fork Lifter

Cap.	Fork Height	Fork Length	Fork Width	Fork Spacing	Bail Center of Gravity	Item No.
Adjustable Load Lifter						
4000 lb.	2"	43"	4"	17½" to 36"	12" to 24"	5TAE5
Fixed-Fork Pallet LIfters						
4000 lb.	2"	36"	3"	19"	18"	5TAD9
	2"	42"	4"	21"	21"	5TAE0
	2"	48"	4"	24"	24"	5TAE1
6000 lb.	2½"	48"	4½"	18"	24"	5TAE3
	2½"	54"	4½"	30"	27"	5TAE4
Lightweight Fixed-Fork Pallet Lifter						
4000 lb.	2"	36"	4"	25"	24"	5TAE9

Tractel | Ron Crane Scales by Eilon Engineering Weighing Systems Ltd.

Load Indicators, Crane Scales, and Crane Dynamometers


No. 49P426


No. 22F450


No. 3EKX3


No. 3EKW7

Crane dynamometers are load indicators used to measure hanging loads. Search products on Grainger.com® for more information.

TRACTEL

Load Indicators, Wireless Base Layer—Precision force sensors measure forces and indicate loads. Accuracy: ±0.2%.

Load Indicators with Remote Display—Load indicators measure hanging loads (lb./kg) and tensile forces (N). Accuracy: ±0.1% (Nos. 22F449–22F450) and 0.2% (Nos. 22F443-22F444).

Crane Scales, LCD—Designed to quantify hanging loads (lb.) in industrial environments. Accuracy: ±0.2%.

RON CRANE SCALES BY EILON ENGINEERING

User-selectable units of measure and calibration.

Crane Dynamometers with Wireless Remote—Programmed to ensure that received and indicated values are identical to transmitted value. Long transmission range up to 450 ft./150m.

Crane Dynamometers with Wired Remote—Remote indicator reads measured data on all models up to 300t.

Crane Scales with Wireless Remote—Cage protects against external shocks. LCD with remote IR control.

Cap.	Item No.
Tractel	
Load Indicators, Wireless	
4000 lb.	49P424
25,000 lb.	49P426
40,000 lb.	49P427
Load Indicator	
6400 lb.	22F449
10,000 lb.	22F450
100,000 lb.	22F443
200,000 lb.	22F444
Crane Scales, LCD	
2000 lb.	22F435
6400 lb.	22F437
Ron Crane Scales	
Crane Dynamometer, Steel, Wireless Remote	
20,000 lb.	3EKX9
50,000 lb.	3EKY1
Crane Dynamometer, Steel, Wired Remote	
10,000 lb.	3EKX1
40,000 lb.	3EKX3
Crane Scales with Protective Cage, Aluminum, Wireless Remote	
6000 lb.	3EKW1
10,000 lb.	3EKW7



No. 2VCA2



No. 2RUZ8



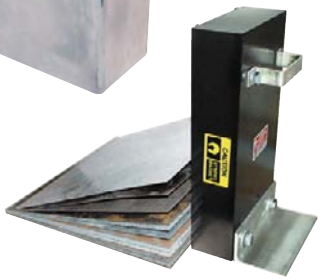
No. 2RVA2



No. 2RVA3



No. 2VCA6



No. 2VCC5

Lifting Magnets

MAG-MATE®

Require no electricity to operate.

PowerLift® Rare Earth—Reduce the chance of dropping a load due to a power failure. On/Off magnet with a locking system ensures that the magnet is ready. Magnets can be used on flat or round surfaces. For handling steel plates, billets, blocks, and containers. RFID enabled. 3:1 design factor. Meet ASME B30.20 Standards.

BASICLIFT™—Full-width cam releases angle iron or strip steel. Stainless steel casings. Large lift lug accommodates most crane hooks. Max. temp.: 300°F. 2:1 design factor.

Creative Lift® Ceramic—Nonmarring roller cam release requires less torque to release parts. Max. temp.: 300°F. Rust- and chip-resistant stainless steel casing. For thick nonflexing metal. 3:1 design factor. Meet ASME B30.20 Standards.

Trigger Lift®—For removing hot metal parts from cutting tables. Max. temp.: 300°F 1-handed trigger release. Lightweight aluminum housing.

Sheet Handlers—Lift or move stacked steel plates. 1 sheet at a time.

Power Grips—Securely grip steel plates, sheets, or parts. Loop handle makes it easy to move items.

Parts Retriever—A T-handle makes it easy to release parts after retrieval. For use where small parts need to be counted or collected.

Grip Sticks—Reach tight spots with long straight end or 10° angled end. Lightweight aluminum shaft with interchangeable grip and magnet.

Salvage Magnets—Suitable for use in both wet and dry environments for coating, stripping, plating, and chemical operations.

Sheet Fanners—A magnetic field separates the steel sheets. Fanner height should be 2" to 3" higher than the stack.

Manhole Cover Lift System—Combined dolly with magnets to eliminate the need for pry bars when handling manhole covers or lids. Dolly adjusts to lift most manhole covers or lids.

VERSALIFT™—On/Off magnet with test feature. Can be used on flat or round surfaces. RFID enabled, supports custom pole shoes. 3:1 design factor.

Max. Rated Flat Capacity	Min. Material Thickness for Activation	Overall Length	Magnet Length	Magnet Width	Magnet Height	Item No.
PowerLift® Rare Earth						
250 lb.	¼"	5"	3⅜"	2⅜"	2⅜"	2VCA1
800 lb.	¼"	7⅞"	6⅜"	3⅜"	3⅞"	2VCA2
1600 lb.	½"	10¾"	9⅛"	4⅞"	4¾"	2VCA3
2500 lb.	1"	12⅝"	10⅝"	7⅛"	6½"	2VCA4
5000 lb.	2"	16½"	14⅞"	9¼"	8⅜"	2VCA5
Basiclift™						
400 lb.	3⁄16"	7½"	3⅜"	4½"	1⅝"	4DMP8
1000 lb.	3⁄16"	11"	6½"	4½"	1⅝"	4DMP9
1500 lb.	3⁄16"	14½"	10¾"	4½"	1⅝"	4DMR1
Creative Lift® Ceramic						
400 lb.	3⁄16"	7¾"	4"	6½"	2½"	2RUZ6
1000 lb.	3⁄16"	10¾"	7"	6½"	2½"	2RUZ7
1500 lb.	3⁄16"	14¾"	10½"	6½"	2½"	2RUZ8
2200 lb.	3⁄16"	15"	11¼"	9¾"	2½"	2RUZ9
3000 lb.	3⁄16"	19¼"	15¼"	9¾"	2½"	2RVA1

Max. Lifting Capacity	Magnet Length	Magnet Width	Magnet Height	Item No.
Trigger Lift®				
50 lb.	3⅜"	2⅜"	4 13⁄16"	2RVA2
Sheet Handlers				
50 lb.	6⅛"	3⅜"	1⅜"	2RVA3
125 lb.	6⅛"	7¼"	1⅜"	2RVA4
200 lb.	6⅛"	7¼"	1⅜"	2RVA5
300 lb.	6⅛"	7¼"	1⅜"	2RVA6
Power Grips				
25 lb.	2⅛"	¾"	2"	2RVA7
50 lb.	6"	9⁄16"	1½"	48KR14
51½ lb.	4"	¾"	2¼"	2RVA8
92½ lb.	5¼"	1⅞"	2¾"	2RVA9
200 lb.	6"	9⁄16"	1½"	48KR15
125 lb.	6"	9⁄16"	1½"	48KR16

Lifting Capacity	L	Item No.
Parts Retrievers		
5 lb.	7½"	2VCA6
5 lb.	33½"	2VCA9
7 lb.	7½"	2VCA7
7 lb.	33½"	2VCC1
11 lb.	7½"	2VCA8
11 lb.	33½"	2VCC2
Grip Sticks		
12½ lb.	14"	4DMR2
43½ lb.	14"	4DMR3
Salvage Magnets		
50 lb.	6"	2VCC3
35 lb.	3½"	2VCC4

Metal Gauge	Overall Height	Item No.
Sheet Fanners		
20 to 30 ga.	6 3⁄16"	2VCC5
	9¼"	2VCC6
	12¼"	2VCC7
	15¼"	2VCC8
12 to 22 ga.	9¼"	2VCC9
	12¼"	2VCD1
	15¼"	2VCD2
	18 5⁄16"	2VCD3
7 to 12 ga.	9¼"	2VCD4
	12¼"	2VCD5
	15¼"	2VCD6
	18 5⁄16"	2VCD7

Description	Cap.	Collapsed Height	Overall Length	Item No.
Manhole Cover Lift System				
Magnet Lift System	400 lb.	—	29½"	2VCD8
Steel Lifting Dolly	—	—	78"	2VCD9
Aluminum Lifting Dolly	—	—	78"	2VCE1
Steel Manhole Cover Lid Lifter	800 lb.	12¼"	75½"	34JG53
	800 lb.	15¼"	75½"	34JG54
	1600 lb.	12¼"	75½"	34JG55
	1600 lb.	15¼"	75½"	34JG56
Aluminum Manhole Cover Lid Lifter	600 lb.	12¼"	75½"	34JG57
	600 lb.	15¼"	75½"	34JG58
	1200 lb.	12¼"	75½"	34JG59
	1200 lb.	15¼"	75½"	34JG60

Description	Overall Length	Max. Rated Flat Capacity	Magnet Length	Magnet Width	Magnet Height	Item No.
VersaLift Rare Earth™						
Lifting Magnet	7"	600 lb.	5⅝"	5"	3¾"	38V889
Lifting Magnet	11"	1200 lb.	10"	5"	3¾"	38V890
Lift Magnet Adaptor	4"	—	—	—	—	38V891

ERIEZ

Lifting Magnets

Safely lift and transfer steel and iron without slings, hooks, or cables. Use individually or in series with a spreader beam. Capacity is lower on thinner materials. Paint, coatings, scale, or other materials on the contact surface may significantly reduce holding power. Conform to ASME B30.20.

For more information on Eriez® Lifting Magnets, see documentation on Grainger.com®.

SafeHold® Manual On/Off—Permanent, 2-pole magnets lift round and flat materials without electricity. Include hook bale.

SafeHold® Automatic On/Off—Suitable for lifting flat materials from burn tables and where access is limited. Permanent magnets; no electricity required. Turn on or off automatically each time they go through a full lift cycle. Include lifting eye.

Selecto® Electric—Lift/Off/Drop switch is top-mounted. Magnetizing requires 115VAC electric power. Includes lifting eye.



No. 490P78



No. 1TAF1

Max. Rated Flat Capacity	Max. Rated Round Capacity	Overall Height	Overall Length	Overall Width	Item No.
Safehold® Manual On/Off					
250 lb.	125 lb.	4 13/16"	4 3/4"	2 1/2"	**490P78**
750 lb.	375 lb.	7 3/32"	7 3/4"	3 5/8"	**490P79**
1500 lb.	750 lb.	8 5/8"	10 23/32"	4 13/16"	**490P80**
2500 lb.	1250 lb.	11 17/32"	12 1/2"	6 15/16"	**490P81**
Safehold® Automatic On/Off					
1100 lb.	—	21 1/2"	16 3/8"	17 7/8"	**1TAF4**
2400 lb.	—	22 1/4"	22 13/16"	18 11/16"	**1TAF5**

Max. Lifting Capacity	Overall Dia.	Overall Height	Item No.
Selecto® Electric			
375 lb.	4"	5 5/8"	**1TAF1**
1030 lb.	5 9/16"	8 5/16"	**1TAF2**
2800 lb.	8 5/8"	10 1/2"	**1TAF3**



No. 49P417

Dayton

Permanent Lifting Magnets

Lightweight, small-volume magnets are easy to transport, provide a more effective use of available floor space, and increase stacking height. Large, heavy pieces can easily be moved by one operator. Can be used with both flat and round components. Stable structure is made with high-energy rare earth NdFeB magnets. Use with spreader beam to handle long plates, pipes, or bars.

Max. Rated Flat Capacity	Max. Rated Round Capacity	Bail Opening Height	Bail Opening Width	Overall Length	Magnet Length	Magnet Width	Magnet Height	Item No.
250 lb.	125 lb.	2 3/8"	1 3/8"	4 3/4"	3 1/4"	2 1/2"	2 5/8"	**49P417**
800 lb.	400 lb.	2 7/8"	1 3/4"	7 5/8"	6"	3 5/8"	3 1/2"	**49P418**
1600 lb.	800 lb.	4"	2 3/4"	10 3/8"	8 3/4"	4 5/8"	4 3/4"	**49P419**
2500 lb.	1250 lb.	6 3/4"	4"	12 1/8"	10 1/4"	7"	6 1/2"	**49P420**
5000 lb.	2500 lb.	8 3/4"	4 1/2"	16 3/4"	14 5/8"	9 1/8"	8 3/8"	**49P421**



No. 29WP72

Crosby® Bolt, Nut, and Cotter Shackles

- Galvanized per ASME B30.26

Heavy-duty shackles provide a secure, semipermanent connection. Marked with size and working load limit (WLL), in tons.

Working Load Limit	Width Between Eyes	Pin Dia.	Body Size	Item No.
4,000 lb.	1 3/16"	21/32"	1/2"	**29WP72**
6,500 lb.	1 1/16"	3/4"	5/8"	**29WP73**
9,500 lb.	1 1/4"	7/8"	3/4"	**29WP74**
13,000 lb.	1 7/16"	1"	7/8"	**29WP75**
17,000 lb.	1 11/16"	1 1/8"	1"	**29WP76**
19,000 lb.	1 13/16"	1 1/4"	1 1/8"	**29WP77**
24,000 lb.	2 1/32"	1 3/8"	1 1/4"	**29WP78**
27,000 lb.	2 1/4"	1 1/2"	1 3/8"	**29WP79**
34,000 lb.	2 3/8"	1 5/8"	1 1/2"	**29WP80**
50,000 lb.	2 7/8"	2"	1 3/4"	**29WP81**
70,000 lb.	3 1/4"	2 1/4"	2"	**29WP82**
110,000 lb.	4 1/8"	3 3/4"	2 1/2"	**29WP83**

RONSTAN

Screw Pin Shackles

- 316 stainless steel construction

Marine-grade design and materials provide corrosion resistance. Feature low-profile and compact design. No. 5GAA5 has a bolt head for wrench tightening.



Screw Pin D Shackle

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Bow Shackles				
660 lb.	7/16"	9/16"	5/32"	**5FZZ3**
880 lb.	1/2"	23/32"	3/16"	**5FZZ4**
1545 lb.	5/8"	13/16"	1/4"	**5FZZ5**
2975 lb.	5/8"	1 1/16"	5/16"	**5FZZ6**
3970 lb.	13/16"	2 1/16"	3/8"	**5FZZ7**

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
D Shackles				
310 lb.	11/32"	15/32"	1/8"	**5FZZ8**
660 lb.	13/32"	5/8"	5/32"	**5FZZ9**
880 lb.	7/16"	23/32"	3/16"	**5GAA0**
1545 lb.	9/16"	7/8"	1/4"	**5GAA1**
2975 lb.	5/8"	1 5/32"	5/16"	**5GAA2**
3970 lb.	21/32"	1 1/2"	3/8"	**5GAA3**
8265 lb.	3/4"	1 31/32"	1/2"	**5GAA4**
12,125 lb.	1"	1 25/32"	5/8"	**5GAA5**

Crosby® Screw Pin Anchor Shackles

- Galvanized per ASME B30.26

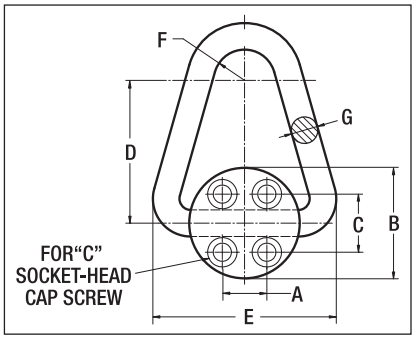
For applications where the shackle is removed frequently. Shackles are permanently marked with size and working load limit (WLL), in tons. Wide-body shackle units have powder-coat finish.



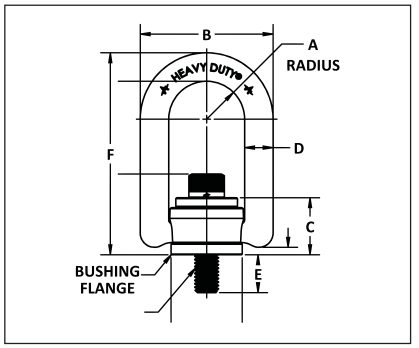
No. 29WP42

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Painted Finish, Carbon Steel Body & Pin				
1000 lb.	15/32"	1/4"	5/16"	**29WP42**
1500 lb.	17/32"	5/16"	3/8"	**29WP43**
2000 lb.	21/32"	3/8"	7/16"	**29WP44**
3000 lb.	3/4"	7/16"	17/32"	**29WP45**
4000 lb.	13/16"	1/2"	21/32"	**29WP46**
6500 lb.	1 1/16"	5/8"	3/4"	**29WP47**
9500 lb.	1 1/4"	3/4"	7/8"	**29WP48**
13,000 lb.	1 7/16"	7/8"	1"	**29WP49**
17,000 lb.	1 11/16"	1"	1 1/8"	**29WP50**
19,000 lb.	1 13/16"	1 1/8"	1 1/4"	**29WP51**
24,000 lb.	2 1/32"	1 1/4"	1 3/8"	**29WP52**
27,000 lb.	2 1/4"	1 3/8"	1 1/2"	**29WP53**
50,000 lb.	2 7/8"	1 3/4"	2"	**29WP55**
70,000 lb.	3 1/4"	2"	2 1/4"	**29WP56**
110,000 lb.	4 1/8"	2 1/2"	2 3/4"	**29WP57**

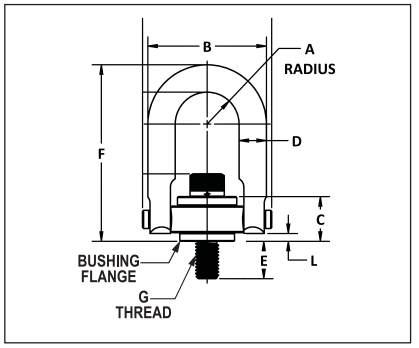
Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Galvanized Finish, Carbon Steel Body & Pin				
660 lb.	3/8"	3/16"	1/4"	**29WP58**
1000 lb.	15/32"	1/4"	5/16"	**29WP59**
1500 lb.	17/32"	5/16"	3/8"	**29WP60**
2000 lb.	21/32"	3/8"	7/16"	**29WP61**
4000 lb.	13/16"	1/2"	21/32"	**29WP63**
6500 lb.	1 1/16"	5/8"	3/4"	**29WP64**
9500 lb.	1 1/4"	3/4"	7/8"	**29WP65**
13,000 lb.	1 7/16"	7/8"	1"	**29WP66**
17,000 lb.	1 11/16"	1"	1 1/8"	**29WP67**
19,000 lb.	1 13/16"	1 1/8"	1 1/4"	**29WP68**
24,000 lb.	2 1/32"	1 1/4"	1 3/8"	**29WP69**
27,000 lb.	2 1/4"	1 3/8"	1 1/2"	**29WP70**
34,000 lb.	2 3/8"	1 1/2"	1 5/8"	**29WP71**



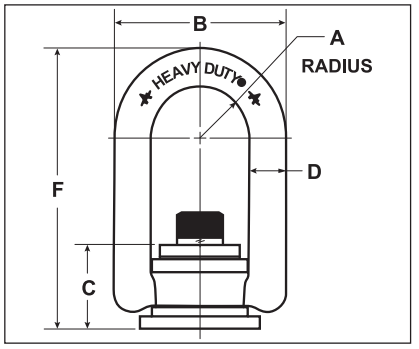
Pivot Only



HDHR/ENHDHR/HDHRM



SEHR/SEHRM



WMHR

Hoist Rings

PIVOT-ONLY

Rings are built with forged chrome moly steel, with black oxide finish. Heat-treated and pivot 180° under load. 6:1 design factor.

EN-GUARD™ ENHDHR

Desinged with 4140 alloy steel. Corrosion-resistant electroless nickel finish. Serialized; disassemble and reassemble for easy inspection. Rings bolt-on and swivel 360° and pivot 180° and have 5:1 design factor.

HDHR AND HDHR-METRIC

Rings feature forged 4140 alloy steel with black oxide finish. They have individual serial numbers. Bolt-on and swivel 360° and pivot 180° under load. 5:1 design factor.

SEHR, SEHR-METRIC, AND SEHRSS

These rings are serialized, bolt-on, and feature 5:1 design factor. They swivel 360° and pivot 180° under load. SEHR and SEHRM rings are designed with 4140 alloy steel and black oxide finish. SEHRSS are designed with 300 series stainless steel.

WMHR

4140 alloy steel construction with black oxide finish. Welded and swivel 360° and pivot 180° under load.

Working Load Limit	A	B	C	D	E	F	Bail Dia.	Thread Size	Installation Torque	Item No.	
Pivot Only											
20000 lb.	5"	3 3/8"	2 1/16"	1"	6 3/16"	1 7/8"	1"	5/8 (4 PLCS)	42 to 50 ft.-lb.	**4R976**	†
Pivot/Swivel											
En-Guard™ ENHDHR											
1000 lb.	2 1/32"	2 19/64"	31/32"	7/16"	9/16"	3 15/64"	1"	3/8-16	12 ft.-lb.	**39RJ70**	#
2500 lb.	1"	3 1/2"	1 1/2"	3/4"	3/4"	5 5/16"	1"	1/2-13	28 ft.-lb.	**39RJ55**	#
4000 lb.	1"	3 1/2"	1 1/2"	3/4"	1"	5 5/16"	1"	5/8-11	60 ft.-lb.	**39RH89**	#
5000 lb.	1"	3 1/2"	1 1/2"	3/4"	1"	5 5/16"	1"	3/4-10	100 ft.-lb.	**39RJ25**	#
10000 lb.	1 1/2"	5 7/64"	1 3/64"	1"	1 29/64"	7 3/8"	1"	1-19	230 ft.-lb.	**39RH95**	
15000 lb.	2"	6 3/4"	2 7/8"	1 1/4"	1 7/8"	9 7/32"	1"	1 1/4-7	470 ft.-lb.	**39RJ39**	#
HDHR											
550 lb.	2 1/32"	2 19/64"	31/32"	7/16"	9/16"	3 15/64"	1"	1/4-20	5 ft.-lb.	**39RJ53**	#
800 lb.	2 1/32"	2 19/64"	31/32"	7/16"	1 1/16"	3 15/64"	1"	5/16-18	7 ft.-lb.	**39RJ23**	#
	2 1/32"	2 19/64"	31/32"	7/16"	9/16"	3 15/64"	1"	5/16-18	7 ft.-lb.	**39RH92**	#
1000 lb.	2 1/32"	2 19/64"	31/32"	7/16"	9/16"	3 15/64"	7/16"	3/8-16	12 ft.-lb.	**4R968**	†
	2 1/32"	2 19/64"	31/32"	7/16"	1 1/16"	3 15/64"	7/16"	3/8-16	12 ft.-lb.	**4ZW85**	†
2250 lb.	2 1/32"	2 19/64"	31/32"	7/16"	1 1/16"	3 15/64"	1"	1/2-13	26 ft.-lb.	**39RJ41**	#
2500 lb.	1"	3 1/2"	1 1/2"	3/4"	3/4"	5 5/16"	1"	1/2-13	28 ft.-lb.	**39RJ67**	#
	1"	3 1/2"	1 1/2"	3/4"	1"	5 5/16"	3/4"	1/2-13	28 ft.-lb.	**4R982**	†
	1"	3 1/2"	1 1/2"	3/4"	1 1/4"	5 5/16"	3/4"	1/2-13	28 ft.-lb.	**4R984**	†
4000 lb.	1"	3 1/2"	1 1/2"	3/4"	1"	5 5/16"	3/4"	5/8-11	60 ft.-lb.	**4R986**	†
	1"	3 1/2"	1 1/2"	3/4"	1 1/4"	5 5/16"	3/4"	5/8-11	60 ft.-lb.	**4ZW89**	†
5000 lb.	1"	3 1/2"	1 1/2"	3/4"	1"	5 5/16"	3/4"	3/4-10	100 ft.-lb.	**4R990**	†
	1"	3 1/2"	1 1/2"	3/4"	1 1/2"	5 5/16"	3/4"	3/4-10	100 ft.-lb.	**4ZW90**	†
7000 lb.	1 1/2"	5 7/64"	1 3/64"	1"	1 13/64"	7 3/8"	1"	3/4-10	100 ft.-lb.	**4ZW80**	†
	1 1/2"	5 7/64"	1 3/64"	1"	1 29/64"	7 3/8"	1"	3/4-10	100 ft.-lb.	**4ZW81**	†
8000 lb.	1 1/2"	5 7/64"	2 3/64"	1"	1 1/4"	7 3/8"	1"	7/8-9	160 ft.-lb.	**4ZW79**	†
10000 lb.	1 1/2"	5 7/64"	1 3/64"	1"	1 29/64"	7 3/8"	1"	1-18	230 ft.-lb.	**4ZW82**	†
	1 1/2"	5 7/64"	1 3/64"	1"	1 1/4"	7 3/8"	1"	1-17	230 ft.-lb.	**4R970**	†
	1 1/2"	5 7/64"	1 3/64"	1"	2 13/64"	7 3/8"	1"	1-20	230 ft.-lb.	**4ZW83**	†
15000 lb.	2"	6 3/4"	2 7/8"	1 1/4"	2 5/8"	9 7/32"	1 1/4"	1 1/4-7	470 ft.-lb.	**4ZW86**	†
20000 lb.	2"	6 3/4"	2 7/8"	1 1/4"	2 5/8"	9 7/32"	1 1/4"	1 3/8-6	670 ft.-lb.	**4ZW87**	†
24000 lb.	2"	6 3/4"	2 7/8"	1 1/4"	2 5/8"	9 7/32"	1 1/4"	1 1/2-6	800 ft.-lb.	**4ZW88**	†
30000 lb.	2"	6 3/4"	2 7/8"	1 1/4"	2 31/32"	9 7/32"	1"	2-4-1/2	1100 ft.-lb.	**39RH96**	
HDHR - Metric											
990 lb.	16.5mm	58.2mm	24.4mm	11.1mm	16mm	82mm	1"	M10 x 1.5	16 ft.-lb.	**39RJ87**	#
2300 lb.	25.4mm	88.9mm	38.1mm	19.1mm	25mm	134.9mm	1"	M12 x 1.75	37 ft.-lb.	**39RH82**	#
4100 lb.	25.4mm	88.9mm	38.1mm	19.1mm	25mm	134.9mm	1"	M16 x 2.0	80.0 ft.-lb.	**39RJ06**	#
4800 lb.	25.4mm	88.9mm	38.1mm	19.1mm	25mm	134.6mm	1"	M20 x 2.5	135 ft.-lb.	**39RJ40**	
27500 lb.	50.8mm	171.5mm	72.9mm	31.8mm	80mm	234.2mm	1"	M42 x 4.5	1085.5 ft.-lb.	**39RJ24**	#
SEHR											
550 lb.	7/16"	1 39/64"	23/32"	3/8"	35/64"	2 43/64"	3/8"	1/4-20	5 ft.-lb.	**39RH91**	
800 lb.	7/16"	1 39/64"	23/32"	3/8"	19/64"	2 43/64"	3/8"	1/4-20	7 ft.-lb.	**39RJ26**	
1000 lb.	7/16"	1 39/64"	23/32"	3/8"	35/64"	2 43/64"	3/8"	3/8-16	12 ft.-lb.	**39RJ79**	
2500 lb.	45/64"	2 13/32"	15/16"	1/2"	1 5/64"	3 25/32"	1/2"	1/2-13	28 ft.-lb.	**39RJ43**	#
	7/8"	3 1/4"	1 7/32"	3/4"	25/32"	4 25/32"	3/4"	1/2-13	28 ft.-lb.	**39RJ86**	#
	7/8"	3 1/4"	1 7/32"	3/4"	25/32"	6 23/32"	3/4"	1/2-13	28 ft.-lb.	**4R980**	†
4000 lb.	7/8"	3 1/4"	1 7/32"	3/4"	1 1/32"	4 25/32"	3/4"	5/8-11	60 ft.-lb.	**39RJ60**	#
	7/8"	3 1/4"	1 7/32"	3/4"	1 9/32"	4 25/32"	3/4"	5/8-11	60 ft.-lb.	**39RJ30**	#
5000 lb.	7/8"	3 1/4"	1 7/32"	3/4"	1 9/32"	4 25/32"	3/4"	1/2-13	28 ft.-lb.	**39RH83**	#
	7/8"	3 1/4"	1 7/32"	3/4"	1 17/32"	4 25/32"	3/4"	3/4-10	100 ft.-lb.	**39RJ91**	#
	7/8"	3 1/4"	1 7/32"	3/4"	1 1/32"	4 25/32"	3/4"	3/4-10	100 ft.-lb.	**39RJ50**	
7000 lb.	1 13/32"	4 51/64"	1 23/32"	1"	1 35/64"	6 33/64"	1"	3/4-10	100 ft.-lb.	**39RH88**	#
10000 lb.	1 13/32"	4 51/64"	1 23/32"	1"	1 35/64"	6 33/64"	1"	1-11	230 ft.-lb.	**39RJ54**	#
15000 lb.	1 3/4"	6"	2 7/64"	1 1/4"	1 57/64"	8 47/64"	1 1/4"	1 1/4-7	470 ft.-lb.	**39RJ45**	#
30000 lb.	2 1/4"	8"	2 13/16"	1 3/4"	2 31/32"	12 15/32"	1"	2-4-1/2	1100 ft.-lb.	**39RJ84**	#
50000 lb.	3"	10 1/2"	4 3/32"	2 1/4"	4"	16 7/8"	1"	2 1/2-8	2100 ft.-lb.	**39RH79**	#
75000 lb.	3 3/4"	13"	5 17/64"	2 3/4"	5 13/64"	19 1/2"	1"	3-4	4300 ft.-lb.	**39RJ89**	#
SEHR - Metric											
4100 lb.	22.4mm	82.5mm	31mm	19mm	24mm	121.4mm	1"	M16 x 2.0	80 ft.-lb.	**39RJ16**	#
9200 lb.	35.6mm	121.2mm	43.4mm	25.4mm	34mm	165.8mm	1"	M24 x 3.0	311.0 ft.-lb.	**39RJ75**	
69300 lb.	95.25mm	330.2mm	133.9mm	69.85mm	132mm	495.3mm	1"	M72 x 6.0	5670 ft.-lb.	**39RJ62**	#
SEHRSS											
275 lb.	7/16"	1 39/64"	23/32"	3/8"	35/64"	2 43/64"	3/8"	1/4-20	2.5 ft.-lb.	**39RJ77**	
1250 lb.	45/64"	2 13/32"	15/16"	1/2"	1 5/64"	3 25/32"	1/2"	1/2-13	14 ft.-lb.	**39RJ14**	#
2500 lb.	7/8"	3 1/4"	1 7/32"	3/4"	1 17/32"	4 25/32"	3/4"	3/4-10	50 ft.-lb.	**39RJ38**	#
WMHR											
5000 lb.	1"	3 1/2"	1 5/8"	3/4"	—	5 15/32"	1"	1/4"	—	**39RJ19**	#
24000 lb.	2"	6 3/4"	3 1/8"	1 1/4"	—	9 1/2"	1"	1/2"	—	**39RJ61**	#

† Magnetic particle inspected per ATSME 1444. # Complies with ASME B30.26

Hoist Rings

RUD

Heat-treated alloy steel with a high-visibility fluorescent pink powder coating that permanently changes color at increased temperatures. The color changes to a deep black with small bubbles if the chain/component reaches 752°F to indicate overheating. Attach to machinery or static loads to lift, move, or position with a lifting sling. 100% electromagnetic crack detection according to EN 1677, except INOX-STAR and VLBG-Plus.

WARNING! Working load limit of an assembly is determined by the component with the lowest working load limit; do not exceed.

BOLT-ON

Swivel load rings maintain working load limit (WLL) during lift without unintended loosening and adjust to the load direction.

Powerpoint®—Universal connection for hook-and-ring assemblies, round sling, loop, endless sling, and more. Double ball bearing enables friction-free turns, swivels, and tilts. Maximum working load limit (WLL) with smallest thread diameter.

Starpoint®—Swivel eye bolt rotates 360°, adjusts to the direction of the pull, and allows for full engagement of the bolt. Come with tightening key.

Starpoint® Eye Nuts—Pivots 360° for an easy adjustment in load direction. Can be side-loaded when adjusted to the correct plane. Available in metric sizes. Safety factor: 4:1.

INOX-STAR Eyebolt—Stainless steel eyebolt pivots 360° in load direction. Body and bolt are designed with Duplex Steel 1.4462 that offers high resistance in sea water and in environments with a high concentration of chlorine ions.

VLBG—Engineered with lifting points that pivot 360°; foldable suspension ring pivots 180°. Designed with a captive, but exchangeable, 100% crack-tested bolt and clear marking of the minimum WLL for all loading directions. Safety factor: 4:1.

VLBG-Plus—360° swivel hoist rings with typically higher working limit in all directions. Bracket adjustable in force direction.

VWBG-V—Double ball-bearing hoist ring is designed for heavy loads which need to be twisted and turned. Pivots 360° so it can be loaded in all directions. 100% crack-tested with a 4:1 safety factor.


Powerpoint® Swivel Hook with Latch


Starpoint® Swivel with Tightening Key


Starpoint® Eye Nut


INOX-STAR Eyebolt


VWBG-V Swivel Load Ring

Working Load Limit	Key	Pivot	Bail Dia.	UNC THREAD Thread Size	UNC THREAD Item No.	METRIC THREAD Thread Size	METRIC THREAD Item No.
Powerpoint®, 360° Swivel, Latch Hook Style							
1380 lb.	1	180°	—	½-13	**1MLR2**	M12 x 1.75	**1MLU5**
3300 lb.	1	180°	—	⅝-11	**1MLR3**	M16 x 2	**1MLU6**
5500 lb.	1	180°	—	¾-10	**1MLR4**	M20 x 2.5	**1MLU7**
5500 lb.	1	180°	—	⅞-9	**1MLR5**	—	—
8800 lb.	1	180°	—	1-8	**1MLR6**	—	—
17630 lb.	1	180°	—	1½-6	**1MLR8**	M36 x 4	**1MLV1**
Starpoint® Swivel Eyebolt with Tightening Key							
220 lb.	2	360°	—	¼-20	**16A756**	M6 x 1	**16A758**
660 lb.	2	360°	—	5/16-18	**16A757**	M8 x 1.25	**16A759**
880 lb.	2	0°	63/64"	⅜-16	**1MLX6**	M10 x 1.5	**1MLZ4**
1650 lb.	2	0°	1 3/16"	½-13	**1MLX7**	M12 x 1.75	**1MLZ5**
3300 lb.	2	0°	1⅜"	⅝-11	**1MLX8**	M16 x 2	**1MLZ6**
5070 lb.	2	0°	1 37/64"	¾-10	**1MLX9**	M20 x 2.5	**1MLZ7**
5070 lb.	2	0°	1 37/64"	⅞-9	**1MLY1**	—	—
7050 lb.	2	0°	1⅞"	1-8	**1MLY2**	M24 x 3	**1MLZ8**
9920 lb.	2	0°	2 23/64"	1¼-7	**1MLY3**	M30 x 3.5	**1MLZ9**
15430 lb.	2	0°	2 53/64"	1½-6	**1MLY4**	M36 x 4	**1MMA1**
19480 lb.	2	0°	3 7/32"	1¾-5	**1MLY5**	M42 x 4.5	**1MMA2**
24640 lb.	2	0°	3 45/64"	2-4-1/2	**1MLY6**	M48 x 5	**1MMA3**
Starpoint® VRM 360° Swivel Eye Nut							
660 lb.	3	0°	7/16"	—	—	M8 x 1.25	**6LYA1**
880 lb.	3	0°	7/16"	—	—	M10 x 1.5	**6LYA2**
1650 lb.	3	0°	33/64"	—	—	M12 x 1.75	**6LYA3**
3300 lb.	3	0°	19/32"	—	—	M16 x 2	**6LYA4**
5070 lb.	3	0°	43/64"	—	—	M20 x 2.5	**6LYA5**
7050 lb.	3	0°	53/64"	—	—	M24 x 3	**6LYA6**
9920 lb.	3	0°	1 1/32"	—	—	M30 x 3.5	**6LYA7**
INOX-STAR, 360° Swivel Eyebolt							
1100 lb.	4	0°	9/16"	—	—	M12 x 1.75	**6LYA8**
2200 lb.	4	0°	⅝"	—	—	M16 x 2	**6LYA9**
4400 lb.	4	0°	¾"	—	—	M20 x 2.5	**6LYC0**
5500 lb.	4	0°	15/16"	—	—	M24 x 3	**6LYC1**

Working Load Limit	Key	Pivot	Bail Dia.	UNC THREAD Thread Size	UNC THREAD Item No.	METRIC THREAD Thread Size	METRIC THREAD Item No.
VLBG, 360° Swivel Hoist Ring							
2200 lb.	5	180°	1 1/32"	½-13	**1MLY7**	—	—
3300 lb.	5	180°	1 13/32"	⅝-11	**1MLY8**	—	—
5500 lb.	5	180°	2 5/32"	¾-10	**1MLY9**	—	—
5500 lb.	5	180°	2 5/32"	⅞-9	**1MLZ1**	—	—
8800 lb.	5	180°	2 9/32"	1-8	**1MLZ2**	—	—
11000 lb.	5	180°	2 9/16"	1¼-7	**1MLZ3**	—	—
15430 lb.	5	180°	2 9/16"	—	—	M36 x 4	**1MMB2**
17630 lb.	5	180°	3 7/32"	—	—	M36 x 4	**1MMB3**
33060 lb.	5	180°	3 15/16"	—	—	M42 x 4.5	**1MMB4**
44090 lb.	5	180°	3 15/16"	—	—	M48 x 5	**1MMB5**
VLBG-Plus, 360° Swivel Hoist Ring							
1385 lb.	6	180°	⅜"	—	—	M8 x 0.63	**53JJ19**
1980 lb.	6	180°	⅜"	—	—	M10 x 0.9	**53JJ20**
2970 lb.	6	180°	⅜"	—	—	M12	**53JJ21**
4400 lb.	6	180°	½"	—	—	M16 x 2	**53JJ22**
7700 lb.	6	180°	½"	—	—	M20 x 3.5	**53JJ23**
9900 lb.	6	180°	½"	—	—	1 1/16"	**53JJ24**
14740 lb.	6	180°	¾"	—	—	M30 x 6.7	**53JJ25**
VWBG-V, 360° Swivel Hoist Ring							
660 lb.	7	180°	5/16"	5/16-18	**16A749**	M8 x 1.25	**16A737**
990 lb.	7	180°	5/16"	⅜-16	**16A750**	M10 x 1.5	**16A738**
1320 lb.	7	180°	⅜"	½-13	**16A751**	—	—
2860 lb.	7	180°	½"	⅝-11	**16A752**	M16 x 2	**16A740**
3120 lb.	7	180°	⅜"	—	—	M12 x 1.75	**16A739**
4400 lb.	7	180°	½"	¾-10	**16A753**	M20 x 2.5	**16A741**
7700 lb.	7	180°	1 1/16"	1-8	**16A754**	M24 x 3	**16A742**
11000 lb.	7	180°	⅞"	1¼-7	**16A755**	M30 x 3.5	**16A743**
17600 lb.	7	180°	⅞"	—	—	M36 x 4	**16A744**
26400 lb.	7	180°	1"	—	—	M42 x 4.5	**16A745**
28600 lb.	7	180°	1"	—	—	M48 x 5	**16A746**
35200 lb.	7	180°	1¼"	—	—	M56 x 1.5	**16A747**
35200 lb.	7	180°	1¼"	—	—	M64 x 1.5	**16A748**

RUD

Weld-On Load Rings

Tested weld-on lifting points are made from high-quality steel, and heat-treated for increased strength. All parts are 100% electromagnetic crack detected according to EN 1677 and have clear identification of nominal WLL. Safety factor: 4:1.

Working Load Limit	Bail Dia.	Pivot	Item No.
Weld-On with Supporting Lug			
3300 lb.	63/64"	180°	**1MLW5**
5500 lb.	—	180°	**16A760**
8800 lb.	1 17/64"	180°	**1MLW6**
14,770 lb.	1 47/64"	180°	**1MLW7**
22,000 lb.	2 5/32"	180°	**1MLW8**
35,300 lb.	2 23/32"	180°	**1MLW9**
Weld-On with Distance Lugs			
8800 lb.	1⅛"	180°	**1MLX1**
14,770 lb.	2 23/64"	180°	**1MLX2**
22,040 lb.	2 9/16"	180°	**1MLX3**
35,270 lb.	3 35/64"	180°	**1MLX4**
69,300 lb.	5 7/64"	180°	**1MLX5**
Weld-On Pad Eyes			
3500 lb.	—	0°	**16A769**
7050 lb.	—	0°	**16A770**
11,000 lb.	—	0°	**16A771**
22,000 lb.	—	0°	**16A772**


Weld-On with Supporting Lug


Weld-On Pad Eyes


Weld-On with Distance Lugs



Grade 70 Steel Clevis Hook



Grade 80 Alloy Steel Clevis Hook



Grade 100 Alloy Steel Eye Hook

Grab Hooks

B/A PRODUCTS CO. YOKE Safety is our first priority™

Excellent for use with chain-to-chain hooking, over-the-road safety chains, vehicle stailization, and general applications in place of slip hooks. Grade 70 and 80 Steel feature a Twist Lock™ grab hook design which prevents accidental release of chain from hook connection and also prevents inadvertent rehooking. Yoke features supporting wings to prevent chain link deformation.

Hook Attachment Type	Trade Size	Working Load Limit	Brand	Item No.
Grade 70 Steel				
Clevis	5/16"	4700 lb.	B/A Products Co.	**9XDN7**
	3/8"	6600 lb.	B/A Products Co.	**9XD05**
Grade 80 Steel				
Clevis	1/4"	3500 lb.	B/A Products Co.	**20Y814**
	5/16"	4500 lb.	B/A Products Co.	**12Z643**
	3/8"	7100 lb.	B/A Products Co.	**12Z644**
	1/2"	12,000 lb.	B/A Products Co.	**12Z657**
	5/8"	18,100 lb.	B/A Products Co.	**20Y815**
Grade 80 Alloy Steel				
Clevis	1/4"	3500 lb.	B/A Products Co.	**3YFZ1**
	5/16"	5300 lb.	B/A Products Co.	**3YFZ3**
	3/8"	7100 lb.	B/A Products Co.	**3YFZ5**
	1/2"	12,000 lb.	B/A Products Co.	**3YFZ7**
	5/8"	18,100 lb.	B/A Products Co.	**3YFZ9**
Grade 100 Alloy Steel				
Eye	1/4" to 5/16"	5700 lb.	Yoke	**13H159**
	3/8"	8800 lb.	Yoke	**13H160**
	1/2"	15,000 lb.	Yoke	**13H161**
	5/8"	22,600 lb.	Yoke	**13H162**
Clevis	1/4" to 5/16"	5700 lb.	Yoke	**13H163**
	3/8"	8800 lb.	Yoke	**13H164**
	1/2"	15,000 lb.	Yoke	**13H165**
	5/8"	22,600 lb.	Yoke	**13H166**



No. 29WR16



No. 29WP90

Crosby® Slip Hooks

Ideal for applications requiring chain or cable to pass through the opening without binding. Forged hooks are quenched and tempered providing maximum strength without excessive weight and bulk. Deformation indicators help determine if throat opening has changed indicating abuse or overload. Angle indicators indicate the maximum included angle which is allowed between 2 sling legs in the hook. These indicators also help approximate other included angles between 2 sling legs. Swivel hooks help prevent tangling and help with positioning during connection. Alloy steel hooks are designed with a 4:1 safety factor; carbon steel are designed with a 5:1 safety factor. Replacement safety latches are available on page 1071.

Working Load Limit	Hook Opening	Hook Reach Length	Eye Inside Width	Eye Inside Height	Dia.	Color	Item No.
Alloy Steel, Includes Latch							
Eye Hook Attachment							
2000 lb.	29/32"	3 1/32"	3/4"	3/4"	1 1/32"	Gold	**29WP93**
3000 lb.	29/32"	3 13/16"	29/32"	29/32"	1 3/32"	Gold	**29WP94**
4000 lb.	1"	4 5/32"	1 1/8"	1 1/8"	1 7/32"	Gold	**29WP95**
6000 lb.	1 3/32"	4 11/16"	1 1/4"	1 1/4"	1/32"	Gold	**29WP96**
10,000 lb.	1 11/32"	5 25/32"	1 9/16"	1 9/16"	2 3/32"	Gold	**29WP97**
14,000 lb.	1 19/32"	7 3/8"	2"	2"	2 9/32"	Gold	**29WP98**
22,000 lb.	2 13/16"	9 3/32"	2 7/16"	2 7/16"	1 3/32"	Gold	**29WP99**
30,000 lb.	2 9/32"	10 25/32"	2 27/32"	2 27/32"	1 1/4"	Gold	**29WR01**
44,000 lb.	3 1/32"	12 17/32"	3 1/2"	3 1/2"	1 1/32"	Gold	**29WR02**
Swivel Eye Hook Attachment							
2000 lb.	29/32"	4 17/32"	1 1/4"	13/16"	3/8"	Gold	**29WR12**
3000 lb.	29/32"	5 3/8"	1 1/2"	1 5/16"	1/2"	Gold	**29WR13**
4000 lb.	1"	6 1/8"	1 3/4"	1 1/2"	5/8"	Gold	**29WR14**
6000 lb.	1 29/32"	6 1/2"	1 3/4"	1 1/2"	5/8"	Gold	**29WR15**
10,000 lb.	1 11/32"	7 1/2"	2"	1 5/8"	3/4"	Gold	**29WR16**
14,000 lb.	1 19/32"	9 5/8"	2 1/2"	2 9/32"	1"	Gold	**29WR17**
22,000 lb.	2 25/32"	11 3/8"	2 3/4"	2 7/16"	1 1/8"	Gold	**29WR18**
30,000 lb.	2 9/32"	12 1/4"	3 1/8"	2 15/32"	1 1/4"	Gold	**29WR19**
44,000 lb.	3 7/32"	16 23/32"	4 3/32"	3 3/4"	1 1/2"	Gold	**29WR20**
Carbon Steel, Includes Latch							
Eye Hook Attachment							
1500 lb.	29/32"	3 1/32"	3/4"	3/4"	1 1/32"	Red	**29WP84**
2000 lb.	29/32"	3 13/16"	29/32"	29/32"	1 3/32"	Red	**29WP85**
3000 lb.	1"	4 5/32"	1 1/8"	1 1/8"	1 7/32"	Red	**29WP86**
4000 lb.	1 29/32"	4 11/16"	1 1/4"	1 1/4"	1/32"	Red	**29WP87**
6000 lb.	1 11/32"	5 25/32"	1 9/16"	1 9/16"	2 3/32"	Red	**29WP88**
10,000 lb.	1 5/8"	7 3/8"	2"	2"	2 9/32"	Red	**29WP89**
15,000 lb.	2 13/16"	9 3/32"	2 7/16"	2 7/16"	1 3/32"	Red	**29WP90**
20,000 lb.	2 9/32"	10 25/32"	2 27/32"	2 27/32"	1 1/4"	Red	**29WP91**
30,000 lb.	3 1/32"	12 17/32"	3 1/2"	3 1/2"	1 1/32"	Red	**29WP92**
Swivel Eye Hook Attachment							
1500 lb.	29/32"	4 17/32"	1 1/4"	13/16"	3/8"	Red	**29WR03**
2000 lb.	29/32"	5 3/8"	1 1/2"	1 5/16"	1/2"	Red	**29WR04**
3000 lb.	1"	6 1/8"	1 3/4"	1 1/2"	5/8"	Red	**29WR05**
4000 lb.	1 29/32"	6 1/2"	1 3/4"	1 1/2"	5/8"	Red	**29WR06**
6000 lb.	1 11/32"	7 1/2"	2"	1 5/8"	3/4"	Red	**29WR07**
10,000 lb.	1 19/32"	9 5/8"	2 1/2"	2 9/32"	1"	Red	**29WR08**
15,000 lb.	2 25/32"	11 3/8"	2 3/4"	2 7/16"	1 1/8"	Red	**29WR09**
20,000 lb.	2 9/32"	12 1/4"	3 1/8"	2 15/32"	1 1/4"	Red	**29WR10**
30,000 lb.	3 7/32"	16 23/32"	4 3/32"	3 3/4"	1 1/2"	Red	**29WR11**
Carbon Steel, Without Latch							
Swivel Eye Hook Attachment							
15,000 lb.	2 3/32"	11 3/8"	2 1/2"	2 9/32"	1 1/8"	Red	**400D86**



Master Link Sub Assembly



Swivel Latch Lock



Clevis Pin Latch Lock Slip Hook

Dayton

Grade 80 Chain Sling Components

Build chain slings to meet specific application needs and requirements. Latch lock, slip hooks, and coupling links meet ANSI/ASME B30.9 and OSHA Standards. OSHA requires ID tag on overhead chain slings.

Description	Working Load Limit	Trade Size	Finish	Item No.
Master Link Sub Assembly	9100 lb.	¾"	Powder Coated	5WRT1 *
Swivel Latch Lock	3500 lb.	9/32"	Powder Coated	5WRT4
Swivel Latch Lock Slip Hook	7100 lb.	⅜"	Powder Coated	5WRT5
	12,000 lb.	½"	Powder Coated	5WRT6
Clevis Pin Latch Lock Slip Hook	3500 lb.	9/32"	Powder Coated	5WRT7
	7100 lb.	⅜"	Powder Coated	5WRT8
	12,000 lb.	½"	Powder Coated	5WRT9
Sling ID Tag	N/A	1/16"	Zinc-Plated	5WRU0
Sling ID Tag With Ring	N/A	1/16"	Zinc-Plated	5WRU1

** Trade size shown is for chain used on sublinks.*



No. 13H131



No. 9Y241

YOKE
Safety is our first priority™

Grade 100 Foundry Hooks

Powder-coated finish. Clevis are steel; eyes are alloy steel.

Trade Size	Working Load Limit	Hook Opening	Color	Item No.
Clevis				
⅜"	8800 lb.	2 31/32"	Orange	9YFV9
½"	15,000 lb.	3 15/32"	Orange	9Y241
⅝"	22,600 lb.	3⅞"	Red	9Y150
Eye				
¼" to 5/16"	5700 lb.	2 7/16"	Blue	13H131
⅜"	8800 lb.	2 29/32"	Blue	13H132
½"	15,000 lb.	3 15/32"	Blue	13H133
⅝"	22,600 lb.	3⅞"	Blue	13H134



Master Link

Coupling Link

Eye-Grab Hook

Eye Sling Hook

pewag
STRONG IS NOT ENOUGH

Grade 120 Chain Sling Components

Powder-coat finish. Master Links and Sling Hook are alloy steel. Coupling Links, Grab Hooks, and Slip Hooks are made of steel.

Description	Working Load Limit	Trade Size	Item No.
Master Link			
Oblong	6100 lb.	9/32"	13H211
	12,800 lb.	⅜"	13H206
	30,000 lb.	½"	13H202
Coupling Link			
Connecting Link	5200 lb.	9/32"	3WYG3
	10,600 lb.	⅜"	3WYG6
	17,900 lb.	½"	3WYG9
Grab Eye			
Grab Hook	5200 lb.	9/32"	3WZC9
	10,600 lb.	⅜"	3WZD3
	17,900 lb.	½"	3WZD6
Sling Hook	5200 lb.	9/32"	3YGZ5
Slip Hook	10,600 lb.	⅜"	3YGZ8
	17,900 lb.	½"	3YHA2

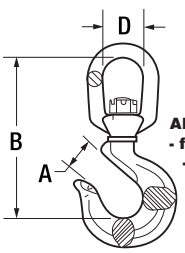
Dayton

Swivel Hooks with Latch

Prevent wire rope and chain from twisting while lifting and aligning loads. Hooks are heat treated.

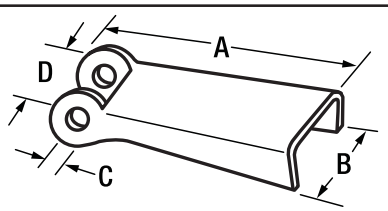


No. 1DNH6



Alloy Steel
- for Lifting
- Swivel

Working Load Limit	Dim. A	Dim. B	Dim. D	Item No.
2000 lb.	15/16"	4⅜"	1¼"	1DNH6
3000 lb.	31/32"	5 7/16"	1½"	1DNH7
4000 lb.	1 1/16"	6¼"	1¾"	1DNH8
6000 lb.	1 3/16"	6½"	1¾"	1DNH9
10,000 lb.	1½"	7½"	2"	1DNJ1



Crosby® Replacement Safety Latches

Designed to fit most hooks with a drilled pin hole. Match the distance of your hook opening to dimension A. Include mounting hardware.

C	A	B	D	Item No.
Stainless Steel				
1 1/64"	2 13/32"	1"	9/16"	48FR92
3/16"	1 27/32"	53/64"	15/32"	48FR91
13/64"	2 31/32"	1 7/32"	37/64"	48FR93

C	A	B	D	Item No.
Steel				
5/32"	1 7/16"	½"	½"	29WR21
1 1/64"	1 9/16"	½"	35/64"	29WR22
	1 21/32"	½"	⅝"	29WR23
	1 29/32	⅝"	21/32"	29WR24
13/64"	2 5/16"	⅝"	53/64"	29WR25
	2 7/8"	15/16"	1 3/64"	29WR26
17/64"	3 9/16"	1 9/64"	1¼"	29WR27
	3 13/16"	1 9/64"	1 23/64"	29WR28
25/64"	5 5/32"	1½"	1 21/32"	29WR29

Dayton
PEERLESS A KING GROUP COMPANY



Grade 30 Proof Coil Chains



Grade 43 High Test Chain



Grade 70 Transport Chain



Grade 80 Lifting Chain

Straight Chains

Grade 30 Proof Coil— Constructed of low-carbon steel for light- to medium-duty use.

Grade 43 High Test—Steel chains have greater tensile strength than proof coil. Use as binder chains for securing loads.

Grade 70 Transport—High-strength, heat-treated chains offer durability for securing loads. Gold chromate finish.

Grade 80 and 100 Lifting—Made from heat-treated alloy steel for overhead lifting and towing applications.

L	Links per Ft.	Finish	Brand	Item No.
Grade 30 Coil Chain				
3/16" - 800 lb. Working Load				
20 ft.	12.3	Galvanized	Dayton	**34RY91**
	12.3	Self Colored	Dayton	**34RY87**
	13	Galvanized	Dayton	**1DJT6**
250 ft.	12.3	Galvanized	Dayton	**34RY92**
	12.3	Self Colored	Dayton	**34RY88**
	13	Galvanized	Dayton	**1DJT7**
800 ft.	12.3	Galvanized	Dayton	**34RY93**
	12.3	Self Colored	Dayton	**34RY89**
	13	Galvanized	Dayton	**1DJT8**
1600 ft.	12.3	Galvanized	Dayton	**34RY95**
4/0 - 670 lb. Working Load				
100 ft.	8.6	Galvanized	Dayton	**34RZ86**
5/0 - 880 lb. Working Load				
100 ft.	7.9	Galvanized	Dayton	**34RZ87**
5/0 - 925 lb. Working Load				
100 ft.	11.2	Galvanized	Dayton	**34RZ88**
1/4" - 1300 lb. Working Load				
20 ft.	9.67	Galvanized	Dayton	**34RZ01**
	9.67	Self Colored	Dayton	**34RY96**
	10	Galvanized	Dayton	**1DJT9**
140 ft.	10	Galvanized	Dayton	**1DJU1**
141 ft.	9.67	Galvanized	Dayton	**34RZ02**
	9.67	Self Colored	Dayton	**34RY97**
800 ft.	9.67	Galvanized	Dayton	**34RZ04**
	9.67	Galvanized	Dayton	**34RZ06**
	9.67	Self Colored	Dayton	**34RY99**
5/16" - 1900 lb. Working Load				
20 ft.	9.3	Galvanized	Dayton	**34RZ11**
	9.3	Self Colored	Dayton	**34RZ07**
	10	Galvanized	Dayton	**1DJU2**
90 ft.	10	Galvanized	Dayton	**1DJU3**
92 ft.	9.3	Galvanized	Dayton	**34RZ12**
	9.3	Self Colored	Dayton	**34RZ08**
275 ft.	9.3	Galvanized	Dayton	**34RZ13**
550 ft.	9.3	Galvanized	Dayton	**34RZ14**
	9.3	Self Colored	Dayton	**34RZ10**
3/8" - 2650 lb. Working Load				
20 ft.	9	Galvanized	Dayton	**1DJU4**
60 ft.	9	Galvanized	Dayton	**1DJU5**
200 ft.	8.7	Galvanized	Dayton	**34RZ15**
400 ft.	8.7	Galvanized	Dayton	**34RZ16**
1/2" - 4500 lb. Working Load				
20 ft.	6.7	Galvanized	Dayton	**34RZ22**
	6.7	Self Colored	Dayton	**34RZ17**
50 ft.	6.7	Galvanized	Dayton	**34RZ24**
100 ft.	6.7	Galvanized	Dayton	**34RZ25**
	6.7	Galvanized	Dayton	**34RZ28**
	6.7	Self Colored	Dayton	**34RZ20**
200 ft.	6.7	Galvanized	Dayton	**34RZ26**
	6.7	Galvanized	Dayton	**34RZ29**
Grade 30 Proof Coil Chain				
3/16" - 800 lb. Working Load				
20 ft.	12	Galvanized	Peerless	**48RR04**
	12	Zinc	Peerless	**48RP80**
250 ft.	12	Galvanized	Peerless	**48RP99**
400 ft.	12	Galvanized	Peerless	**48RP94**
	12	Self Colored	Peerless	**48RP59**
	12	Zinc	Peerless	**48RP70**
800 ft.	12	Galvanized	Peerless	**48RP85**
	12	Self Colored	Peerless	**48RP50**
	12	Zinc	Peerless	**48RP64**
1/4" - 1300 lb. Working Load				
20 ft.	10	Galvanized	Peerless	**48RR05**
	10	Zinc	Peerless	**48RP81**
141 ft.	10	Galvanized	Peerless	**48RR01**
400 ft.	10	Galvanized	Peerless	**48RP95**
	10	Self Colored	Peerless	**48RP60**
	10	Zinc	Peerless	**48RP71**
800 ft.	10	Galvanized	Peerless	**48RP86**
	10	Self Colored	Peerless	**48RP51**
	10	Zinc	Peerless	**48RP65**
5/16" - 1900 lb. Working Load				
20 ft.	9	Galvanized	Peerless	**48RR06**
	9	Zinc	Peerless	**48RP82**
92 ft.	9	Galvanized	Peerless	**48RR02**
	9	Zinc	Peerless	**48RP77**
275 ft.	9	Galvanized	Peerless	**48RP96**
	9	Self Colored	Peerless	**48RP61**
	9	Zinc	Peerless	**48RP72**
550 ft.	9	Galvanized	Peerless	**48RP87**
	9	Self Colored	Peerless	**48RP52**
	9	Zinc	Peerless	**48RP66**
3/8" - 2650 lb. Working Load				
20 ft.	9	Galvanized	Peerless	**48RR07**
	9	Zinc	Peerless	**48RP83**
63 ft.	9	Galvanized	Peerless	**48RR03**
	9	Zinc	Peerless	**48RP78**
200 ft.	9	Galvanized	Peerless	**48RP97**
	9	Self Colored	Peerless	**48RP62**
	9	Zinc	Peerless	**48RP73**
400 ft.	9	Galvanized	Peerless	**48RP88**
	9	Self Colored	Peerless	**48RP53**
	9	Zinc	Peerless	**48RP67**
1/2" - 4500 lb. Working Load				
20 ft.	7	Zinc	Peerless	**48RP84**
35 ft.	7	Zinc	Peerless	**48RP79**
100 ft.	7	Galvanized	Peerless	**48RP98**
	7	Self Colored	Peerless	**48RP63**
	7	Zinc	Peerless	**48RP74**
200 ft.	7	Galvanized	Peerless	**48RP89**
	7	Self Colored	Peerless	**48RP54**
	7	Zinc	Peerless	**48RP68**
5/8" - 6900 lb. Working Load				
150 ft.	6	Galvanized	Peerless	**48RP90**
	6	Self Colored	Peerless	**48RP55**
	6	Zinc	Peerless	**48RP69**
3/4" - 10,600 lb. Working Load				
100 ft.	5	Galvanized	Peerless	**48RP91**
	5	Self Colored	Peerless	**48RP56**
7/8" - 12,800 lb. Working Load				
75 ft.	5	Galvanized	Peerless	**48RP92**
	5	Self Colored	Peerless	**48RP57**
1" - 17,900 lb. Working Load				
60 ft.	4	Galvanized	Peerless	**48RP93**
	4	Self Colored	Peerless	**48RP58**
Grade 43 High Test Chain				
1/4" - 2600 lb. Working Load				
20 ft.	9.67	Galvanized	Dayton	**34RZ34**
	10	Self Colored	Dayton	**1DJR3**
130 ft.	10	Self Colored	Dayton	**1DJR4**
135 ft.	9.67	Galvanized	Dayton	**34RZ35**
400 ft.	9.67	Galvanized	Dayton	**34RZ36**
	9.67	Galvanized	Dayton	**34RZ38**
800 ft.	9.67	Galvanized	Dayton	**34RZ39**
5/16" - 3900 lb. Working Load				
20 ft.	9.3	Galvanized	Dayton	**34RZ44**
	9.3	Galvanized	Dayton	**34RZ48**
	9.3	Self Colored	Dayton	**34RZ40**
90 ft.	9.3	Galvanized	Dayton	**34RZ49**
275 ft.	9.3	Galvanized	Dayton	**34RZ46**
3/8" - 5400 lb. Working Load				
20 ft.	9	Self Colored	Dayton	**1DJR5**
60 ft.	9	Self Colored	Dayton	**1DJR6**
63 ft.	8.7	Galvanized	Dayton	**34RZ57**
200 ft.	8.7	Galvanized	Dayton	**34RZ58**
	8.7	Galvanized	Dayton	**34RZ60**
	8.7	Self Colored	Dayton	**34RZ54**
400 ft.	8.7	Galvanized	Dayton	**34RZ59**
	8.7	Galvanized	Dayton	**34RZ61**
	8.7	Self Colored	Dayton	**34RZ55**
1/2" - 9200 lb. Working Load				
20 ft.	6.7	Galvanized	Dayton	**34RZ67**
	7	Self Colored	Dayton	**1DJR7**
50 ft.	6.7	Galvanized	Dayton	**34RZ69**
Grade 70 Transport Chain				
1/4" - 3150 lb. Working Load				
20 ft.	9.67	Gold Chromate	Dayton	**34RZ75**
	10	Gold Chromate	Peerless	**48RP05**
150 ft.	10	Gold Chromate	Peerless	**48RP02**
400 ft.	9.67	Gold Chromate	Dayton	**34RZ77**
	10	Gold Chromate	Peerless	**48RN96**
800 ft.	10	Gold Chromate	Peerless	**48RN90**
5/16" - 4700 lb. Working Load				
20 ft.	10	Gold Chromate	Dayton	**1DJR9**
	11	Gold Chromate	Peerless	**48RP06**
90 ft.	10	Gold Chromate	Dayton	**1DJT1**
100 ft.	11	Gold Chromate	Peerless	**48RP03**
275 ft.	9.3	Gold Chromate	Dayton	**34RZ79**
550 ft.	11	Gold Chromate	Peerless	**48RN97**
	11	Gold Chromate	Peerless	**48RN91**
3/8" - 6600 lb. Working Load				
20 ft.	9	Gold Chromate	Dayton	**1DJT2**
	9	Gold Chromate	Peerless	**48RP07**
60 ft.	9	Gold Chromate	Dayton	**1DJT3**
75 ft.	9	Gold Chromate	Peerless	**48RP04**
400 ft.	8.7	Gold Chromate	Dayton	**34RZ82**
	9	Gold Chromate	Peerless	**48RN92**
7/16" - 8750 lb. Working Load				
300 ft.	7	Gold Chromate	Peerless	**48RN93**
1/2" - 11,300 lb. Working Load				
20 ft.	7	Gold Chromate	Dayton	**1DJT4**
	7	Gold Chromate	Peerless	**48RP08**
37 ft.	6.7	Gold Chromate	Dayton	**34RZ83**
	7	Gold Chromate	Peerless	**48RP09**
50 ft.	7	Gold Chromate	Dayton	**1DJT5**
	7	Gold Chromate	Peerless	**48RP10**
100 ft.	6.7	Gold Chromate	Dayton	**34RZ84**
	7	Gold Chromate	Peerless	**48RN99**
200 ft.	6.7	Gold Chromate	Dayton	**34RZ85**
	7	Gold Chromate	Peerless	**48RN94**
5/8" - 15,800 lb. Working Load				
75 ft.	6	Gold Chromate	Peerless	**48RP01**
150 ft.	6	Gold Chromate	Peerless	**48RN95**
Grade 80 Lifting Chain				
9/32" - 3500 lb. Working Load				
5 ft.	15	Black Oxide	Dayton	**5WRP6**
10 ft.	15	Black Oxide	Dayton	**5WRP7**
20 ft.	15	Black Oxide	Dayton	**5WRP8**
40 ft.	15	Black Oxide	Dayton	**5WRP9**
3/8" - 7100 lb. Working Load				
5 ft.	13	Black Oxide	Dayton	**5WRR0**
10 ft.	13	Black Oxide	Dayton	**5WRR1**
20 ft.	13	Black Oxide	Dayton	**5WRR2**
30 ft.	13	Black Oxide	Dayton	**5WRR3**
1/2" - 12,000 lb. Working Load				
5 ft.	8	Black Oxide	Dayton	**5WRR4**
10 ft.	8	Black Oxide	Dayton	**5WRR5**
20 ft.	8	Black Oxide	Dayton	**5WRR7**
Grade 100 Lifting Chain				
9/32" - 4300 lb. Working Load				
5 ft.	14	Black Thermadep	Peerless	**48RN36**
10 ft.	14	Black Thermadep	Peerless	**48RN37**
15 ft.	14	Black Thermadep	Peerless	**48RN38**
20 ft.	14	Black Thermadep	Peerless	**48RN39**
800 ft.	14	Black Thermadep	Peerless	**48RN24**
5/16" - 5700 lb. Working Load				
5 ft.	12	Black Thermadep	Peerless	**48RN41**
10 ft.	12	Black Thermadep	Peerless	**48RN42**
15 ft.	12	Black Thermadep	Peerless	**48RN43**
20 ft.	12	Black Thermadep	Peerless	**48RN44**
30 ft.	12	Black Thermadep	Peerless	**48RN45**
3/8" - 8800 lb. Working Load				
5 ft.	10	Black Thermadep	Peerless	**48RN46**
10 ft.	10	Black Thermadep	Peerless	**48RN47**
15 ft.	10	Black Thermadep	Peerless	**48RN48**
20 ft.	10	Black Thermadep	Peerless	**48RN49**
30 ft.	10	Black Thermadep	Peerless	**48RN50**
1/2" - 15,000 lb. Working Load				
5 ft.	8	Black Thermadep	Peerless	**48RN51**
10 ft.	8	Black Thermadep	Peerless	**48RN52**
15 ft.	8	Black Thermadep	Peerless	**48RN53**
20 ft.	8	Black Thermadep	Peerless	**48RN54**
30 ft.	8	Black Thermadep	Peerless	**48RN55**
5/8" - 22,600 lb. Working Load				
10 ft.	6	Black Thermadep	Peerless	**48RN56**

GA GRAINGER APPROVED Dayton

General Utility Chains

Durable, welded-steel links are for use as barriers or tailgates in addition to other applications where low-tensile strength is required. They are zinc-plated for corrosion resistance. Do not use utility chains for lifting. Meet NACM Standards, except Double Loop Link and Jack Link Chains.

Trade Size	L	Working Load Limit	Finish	Brand	Item No.
Double Loop Link Chains					
5	100 ft.	55 lb.	Zinc	GA	**2ZDH3**
4	100 ft.	70 lb.	Zinc	GA	**2ZDH4**
	100 ft.	70 lb.	Galvanized	GA	**2ZDJ1**
3	100 ft.	90 lb.	Galvanized	GA	**2ZDJ2**
	100 ft.	90 lb.	Zinc	GA	**2ZDK1**
	100 ft.	100 lb.	Plain	GA	**2ZDJ6**
2	100 ft.	115 lb.	Zinc	GA	**2ZDH5**
1	100 ft.	155 lb.	Zinc	GA	**2ZDH6**
	100 ft.	155 lb.	Plain	GA	**2ZDJ7**
1/0	100 ft.	200 lb.	Galvanized	GA	**2ZDJ3**
2/0	100 ft.	255 lb.	Zinc	GA	**2ZDH7**
	100 ft.	255 lb.	Galvanized	GA	**2ZDJ4**
	100 ft.	255 lb.	Plain	GA	**2ZDJ8**
3/0	100 ft.	305 lb.	Zinc	GA	**2ZDH8**
4/0	100 ft.	365 lb.	Zinc	GA	**2ZDH9**
Jack Link Chains					
10	100 ft.	34 lb.	Plain	GA	**2ZDG6**
	100 ft.	43 lb.	Zinc	GA	**2ZDE8**
	100 ft.	43 lb.	Nickel	GA	**2ZDF5**
	100 ft.	43 lb.	Brass	GA	**2ZDG2**
	100 ft.	43 lb.	Plain	GA	**2ZDH2**
12	100 ft.	29 lb.	Nickel	GA	**2ZDF4**
	100 ft.	29 lb.	Brass	GA	**2ZDG1**
	100 ft.	29 lb.	Plain	GA	**2ZDH1**
	100 ft.	29 lb.	Zinc	GA	**2ZDJ9**
14	100 ft.	11 lb.	Plain	GA	**2ZDG4**
	100 ft.	16 lb.	Zinc	GA	**2ZDE7**
	100 ft.	16 lb.	Nickel	GA	**2ZDF3**
	100 ft.	16 lb.	Plain	GA	**2ZDG9**
16	100 ft.	8 lb.	Plain	GA	**2ZDG3**
	100 ft.	10 lb.	Zinc	GA	**2ZDE6**
	100 ft.	10 lb.	Nickel	GA	**2ZDF2**
	100 ft.	10 lb.	Brass	GA	**2ZDF8**
	100 ft.	10 lb.	Plain	GA	**2ZDG8**
18	100 ft.	5 lb.	Zinc	GA	**2ZDE5**
	100 ft.	5 lb.	Nickel	GA	**2ZDF1**
	100 ft.	5 lb.	Brass	GA	**2ZDF7**
	100 ft.	5 lb.	Plain	GA	**2ZDG7**
20	100 ft.	3 lb.	Nickel	GA	**2ZDE9**
	100 ft.	3 lb.	Brass	GA	**2ZDF6**
Straight Link Coil Chains					
4	25 ft.	205 lb.	Galvanized	Dayton	**1DKE2**
	100 ft.	205 lb.	Galvanized	Dayton	**1DKE3**
2	10 ft.	310 lb.	Galvanized	Dayton	**1DKE4**
	50 ft.	310 lb.	Galvanized	Dayton	**1DKE5**
1	10 ft.	370 lb.	Galvanized	Dayton	**1DKE6**
	50 ft.	370 lb.	Galvanized	Dayton	**1DKE7**
1/0	10 ft.	440 lb.	Self Colored	Dayton	**1DKD3**
	10 ft.	440 lb.	Galvanized	Dayton	**1DKE8**



Straight Link Coil



Straight Passing Link Chain

Trade Size	L	Working Load Limit	Finish	Brand	Item No.
2/0	10 ft.	520 lb.	Self Colored	Dayton	**1DKD5**
	10 ft.	520 lb.	Galvanized	Dayton	**1DKF1**
	50 ft.	520 lb.	Self Colored	Dayton	**1DKD6**
	50 ft.	520 lb.	Galvanized	Dayton	**1DKF2**
3/0	10 ft.	605 lb.	Galvanized	Dayton	**1DKF3**
	50 ft.	605 lb.	Galvanized	Dayton	**1DKF4**
4/0	10 ft.	670 lb.	Zinc Plated	Dayton	**1DKF5**
	50 ft.	670 lb.	Galvanized	Dayton	**1DKF6**
5/0	50 ft.	880 lb.	Galvanized	Dayton	**1DKF8**
6/0	10 ft.	999 lb.	Galvanized	Dayton	**1DKF9**
	50 ft.	999 lb.	Galvanized	Dayton	**1DKG1**
Straight Link Machine Chains					
4	25 ft.	215 lb.	Self Colored	Dayton	**1DJZ9**
	25 ft.	215 lb.	Galvanized	Dayton	**1DKB3**
	100 ft.	215 lb.	Self Colored	Dayton	**1DKA1**
	100 ft.	215 lb.	Galvanized	Dayton	**1DKB4**
3	25 ft.	270 lb.	Galvanized	Dayton	**1DKB5**
	100 ft.	270 lb.	Galvanized	Dayton	**1DKB6**
2	25 ft.	325 lb.	Self Colored	Dayton	**1DKA2**
	25 ft.	325 lb.	Galvanized	Dayton	**1DKB7**
	50 ft.	325 lb.	Self Colored	Dayton	**1DKA3**
	100 ft.	325 lb.	Galvanized	Dayton	**1DKB8**
1	25 ft.	390 lb.	Galvanized	Dayton	**1DKB9**
	100 ft.	390 lb.	Galvanized	Dayton	**1DKC1**
1/0	10 ft.	465 lb.	Galvanized	Dayton	**1DKC2**
	25 ft.	465 lb.	Self Colored	Dayton	**1DKA4**
	50 ft.	465 lb.	Galvanized	Dayton	**1DKC3**
2/0	10 ft.	545 lb.	Galvanized	Dayton	**1DKC4**
	25 ft.	545 lb.	Self Colored	Dayton	**1DKA6**
	50 ft.	545 lb.	Self Colored	Dayton	**1DKA7**
	50 ft.	545 lb.	Galvanized	Dayton	**1DKC5**
4/0	10 ft.	700 lb.	Galvanized	Dayton	**1DKC8**
	50 ft.	700 lb.	Self Colored	Dayton	**1DKA9**
	50 ft.	700 lb.	Galvanized	Dayton	**1DKC9**
5/0	50 ft.	925 lb.	Self Colored	Dayton	**1DKB2**
	50 ft.	925 lb.	Galvanized	Dayton	**1DKD2**
Straight Passing Link Chains					
2/0	10 ft.	450 lb.	Galvanized	Dayton	**1DKH3**
	50 ft.	450 lb.	Galvanized	Dayton	**1DKH4**
4/0	10 ft.	600 lb.	Galvanized	Dayton	**1DKH5**
	50 ft.	600 lb.	Galvanized	Dayton	**1DKH6**
Twist Link Coil Chains					
4	10 ft.	195 lb.	Galvanized	Dayton	**1DKG2**
	50 ft.	195 lb.	Zinc	Dayton	**1DKG3**
3	50 ft.	240 lb.	Galvanized	Dayton	**1DKG5**
2	10 ft.	295 lb.	Galvanized	Dayton	**1DKG6**
1/0	10 ft.	415 lb.	Galvanized	Dayton	**1DKG8**
	50 ft.	415 lb.	Galvanized	Dayton	**1DKG9**
2/0	50 ft.	495 lb.	Galvanized	Dayton	**1DKH2**



CAMPBELL

Grade 30 Connecting Links

Attach accessories to connect chain pieces together. Drop-forged, heat-treated carbon steel is self-colored. Meet design requirements of Federal Specification RR-C-271D, Type II. Do not exceed the working load limit.

Trade Size	Working Load Limit	Item No.
¼"	1400 lb.	**49JN74**
5/16"	2000 lb.	**49JN75**
⅜"	2800 lb.	**49JN76**



No. 9XEF4

B/A PRODUCTS CO.

Grade 70 Double Clevis Links

Reusable, easy-to-install connectors for short- or long-term use. Steel with natural finish. Not for overhead lifting.

Trade Size	Working Load Limit	Item No.
5/16"	4700 lb.	**9XHY2**
⅜"	6600 lb.	**9XDM5**
½"	11,300 lb.	**9XEF4**
⅝"	15,800 lb.	**9XE48**



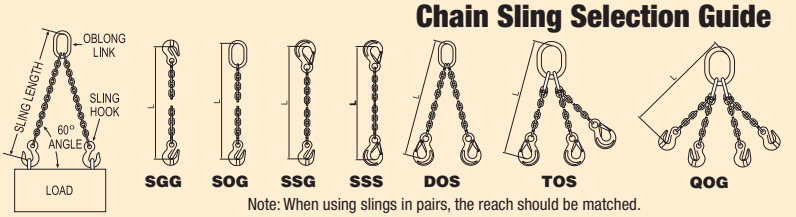
PEERLESS A KITO GROUP COMPANY RONSTAN

Quick Links

Large opening and threaded locking sleeves make attachments easy and secure. Grade 316 stainless steel provides corrosion resistance and extra strength. Zinc-plated, low-carbon steel prevents rusting.

Trade Size	Working Load Limit	Brand	Item No.
Low Carbon Steel			
¼"	880 lb.	Peerless	**38XH96**
316 Stainless Steel			
5/32"	616 lb.	Ronstan	**6HJC6**
¼"	7165 lb.	Ronstan	**6HJC7**
5/16"	2425 lb.	Ronstan	**6HJC8**
7/16"	3960 lb.	Ronstan	**6HJC9**

Chain Sling Selection Guide



Note: When using slings in pairs, the reach should be matched.

Type	Description
SGG	Single, grab hook each end
SOG	Single, oblong master link and grab hook
SOS	Single, oblong master link and sling hook
SSG	Single, sling hook one end, grab hook one end
SSS	Single, sling hook each end
DOG	Double, oblong master link and grab hook each leg
DOS	Double, oblong master link and sling hook each end
TOS	Triple, oblong master link and sling hook each leg
TOG	Triple, oblong master link and grab hook each leg
QOG	Quad, oblong master link and grab hook each leg
QOS	Quad, oblong master link and sling hook each leg



SGG



TOS

Dayton™ LiftAll® pewag®

Chain Slings

Durable metal ID tag is attached to each sling.

Note: See Grainger.com® to view sling capacities for the lowest angle at which slings are rated for use.

Grade 63 Stainless Steel— Chain and components are rated for overhead lifting. Not for temperatures over 650°F.

Grade 80 Alloy—Manufactured from alloy steel and engineered for superior strength, lightness, and durability. Chain is embossed with Grade 80.

Grade 120 Alloy—Workload limits are up to 50% higher compared to G80. Lighter in weight when you downsize your sling, with higher design factors and improved wear resistance when used at Grade 80 workload limits.

Chain Size	Sling Capacity @ 90°	Sling Type	5 FT SLING LENGTH Item No.		10 FT SLING LENGTH Item No.	
Grade 63 Stainless Steel - Pewag						
3/16 in	1,400 lb	SOS	2VCR5		2VCR6	
		SSS	2VCT3		2VCT4	
	2,400 lb	DOS	2VCU1	*	2VCU2	*
	3,600 lb	TOS	2VCU8	*	2VCU9	*
		QOS	—		2VCW1	*
9/32 in	2,700 lb	SSS	2VCG6		2VCT5	
		SOS	2VCG5		2VCR7	
	4,600 lb	DOS	2VCG7	*	2VCU3	*
	7,000 lb	TOS	2VCV1	*	2VCV2	*
		QOS	2VCW2	*	2VCW3	*
3/8 in	5,500 lb	SOS	2VCG8		2VCR8	
		SSS	2VCG9		2VCT6	
	9,300 lb	DOS	2VCH1	*	2VCU4	*
	14,300 lb	TOS	2VCV3	*	2VCV4	*
		QOS	2VCW4	*	2VCW5	*
1/2 in	9,300 lb	SSS	—		2VCT7	
		SOS	2VCH2		2VCR9	
	13,900 lb	SSS	2VCH3		—	
	15,800 lb	DOS	2VCH4	*	2VCU5	*
	24,200 lb	TOS	2VCV5	*	2VCV6	*
		QOS	2VCW6	*	2VCW7	*
5/8 in	9,300 lb	SSS	—		2VCT9	
	13,900 lb	SOS	2VCT1		2VCT2	
		SSS	2VCT8		—	
	23,600 lb	DOS	2VCU6	*	2VCU7	*
	36,100 lb	TOS	2VCV7	*	2VCV8	*
		QOS	2VCW8	*	2VCW9	*

Chain Size	Sling Capacity @ 90°	Sling Type	5 FT SLING LENGTH Item No.		10 FT SLING LENGTH Item No.	
Grade 80 Alloy Steel - Dayton						
9/32 in	3,500 lb	SGG	2UKD5		2UKD7	
	6,100 lb	DOS	2UKD9	*	—	
3/8 in	7,100 lb	SGG	2UKE9		2UKE3	
	12,300 lb	DOS	2UKE5	*	—	
	18,400 lb	TOS	400F09	*	—	
Grade 100 Steel - Lift-All						
7/32 in	2,700 lb	SOS	33KE95		33KE87	
	4,700 lb	DOS	33KE84	*	33KE76	*
9/32 in	4,300 lb	SOS	38Y955		38Y947	
	7,400 lb	DOS	38Y944	*	38Y936	*
3/8 in	8,800 lb	SOS	38Y933		38Y925	
	15,200 lb	DOS	38Y922	*	38Y914	*
1/2 in	15,000 lb	SOS	38Y892		38Y886	
	26,000 lb	DOS	38Y883	*	38Y877	*
5/8 in	22,600 lb	SOS	38Y874		38Y868	
	39,100 lb	DOS	38Y865	*	38Y859	*
3/4 in	35,300 lb	SOS	38Y911		38Y905	
	61,100 lb	DOS	38Y902	*	38Y895	*
Grade 120 Alloy Steel - Pewag						
9/32 in	5,200 lb	SOS	2VCF2		2VCK8	
		SOG	2VCH5		2VCH6	
		SSG	2VCJ2		2VCJ3	
		SGG	2VCJ8		2VCF3	
		SSS	2VCK2		2VCK3	
	9,000 lb	DOS	2VCF4	*	2VCL5	*
		DOG	2VCF5	*	2VCL2	*
	13,500 lb	TOG	2VCL8	*	2VCL9	*
		TOS	2VCN5	*	2VCN6	*
		QOG	2VCP2	*	2VCP3	*
		QOS	2VCP8	*	2VCP9	*
3/8 in	10,600 lb	SOS	2VCF6		2VCK9	
		SOG	2VCH7		2VCH8	
		SSG	2VCJ4		2VCJ5	
		SSS	2VCK4		2VCK5	
		SGG	2VCJ9		2VCF7	
	18,400 lb	DOG	2VCF9	*	2VCL3	*
		DOS	2VCF8	*	2VCL6	*
	27,500 lb	TOG	2VCN1	*	2VCN2	*
		TOS	2VCN7	*	2VCN8	*
		QOG	2VCP4	*	2VCP5	*
		QOS	2VCR1	*	2VCR2	*
1/2 in	17,900 lb	SOS	2VCG1		2VCL1	
		SOG	2VCH9		2VCJ1	
		SSG	2VCJ6		2VCJ7	
		SGG	2VCK1		2VCG2	
		SSS	2VCK6		2VCK7	
	31,000 lb	DOS	2VCG3	*	2VCL7	*
		DOG	2VCG4	*	2VCL4	*
	46,500 lb	TOG	2VCN3	*	2VCN4	*
		TOS	2VCN9	*	2VCP1	*
		QOG	2VCP6	*	2VCP7	*
		QOS	2VCR3	*	2VCR4	*

Load capacity @ 60° angle.

Dayton™ LiftAll® pewag®

Adjustable Chain Slings

Handle odd-shaped, hard-to-position loads using either 1- or 2-point lifts. Proof tested and supplied with certificate of test. Ideal for use where headroom is limited, with portable hydraulic cranes and balanced or unbalanced loads.

Note: See Grainger.com® to view sling capacities for the lowest angle at which slings are rated for use.

Grade 100 Alloy—+25% WLL compared to G80. Pewag chain slings include integrated "XK" shortening hook to adjust chain length. Heat resistant to 400°F. Meet the 20,000 cycle ASTM Standard fatigue test for G100.



Chain Size	Sling Length	Sling Capacity@ 60°	Sling Type	Item No.
Grade 80 Alloy Steel - Dayton				
7/32 in	6 ft	3,600 lb	2 Adjustable, Control Plate, Sling Hook	4PGW1
	10 ft	3,600 lb		4PGW2
9/32 in	6 ft	6,100 lb		4PGW3
	10 ft	6,100 lb		4PGW4
3/8 in	10 ft	12,300 lb		4PGW5
	14 ft	12,300 lb		4PGW6
Grade 100 Alloy Steel - Lift-All				
7/32 in	6 ft	4,700 lb	2 Adjustable, Control Plate, Sling Hook	4TZK2
	10 ft	4,700 lb		4TZK3
9/32 in	6 ft	7,400 lb		4TZK4
	10 ft	7,400 lb		4TZK5
3/8 in	10 ft	15,200 lb		4TZK6
	14 ft	15,200 lb		4TZK7
Grade 100 Alloy Steel - Pewag				
9/32 in	5 ft	4,300 lb	1 Adjustable, Oblong, Sling Hook	2VCE6
	5 ft	7,400 lb	2 Adjustable, Grab Hook, Oblong	2VCE3
	5 ft	11,200 lb	4 Adjustable, Oblong, Sling Hook	2VCE5
	10 ft	7,400 lb	2 Adjustable, Oblong, Sling Hook	2VCE4
3/8 in	5 ft	15,200 lb		2VCE9
	10 ft	4,300 lb	1 Adjustable, Oblong, Sling Hook	2VCE7 *
	10 ft	15,200 lb	2 Adjustable, Oblong, Sling Hook	2VCF1
	10 ft	15,200 lb	2 Adjustable, Grab Hook, Oblong	2VCE8

Load capacity @ 90° angle.

Warning! *Do not exceed sling capacity. Sling capacity for an assembly with multiple slings is equal to the lowest sling capacity of the slings in the assembly. Chain slings should never be used at angles lower than the lowest angle for which they have a rated sling capacity.*



Endless - Type 5



Universal Link - Type U



Attached Eye Cargo Basket - Type 9



Flat Eye and Eye - Type 3

Nylon Web Slings

- Nylon webbing is recommended for general purpose lifting
- Red core warning yarns indicate wear for easy inspection and replacement
- Required tags show rated capacities and material type
- Meet OSHA 29 CFR 1910.184 and AMSE B30.9 Standards

Endless–Type 5—Versatile slings economically priced for use in all three types of hitches: vertical, choker, and basket. Spread sling legs for improved load balance. Sling rotates to minimize wear.

Flat Eye and Eye–Type 3—Popular slings for use in all three types of hitches. Easier to remove from beneath the load than sling Types 1, 2, and 4.

LiftAll® PRODUCTS FOR BETTER LIFTING

STREN-FLEX® STRENGTH & FLEXIBILITY IN LIFTING

Reverse Eye–Type 6—Features reinforced eyes and wear pads on both sides of body and eyes for maximum wear resistance. Butted edges are sewn together to double the sling width.

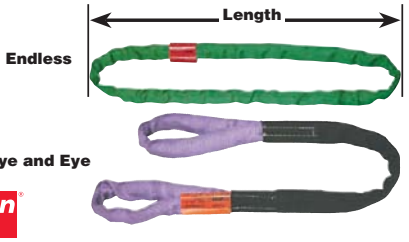
Twisted Eye and Eye–Type 4—Similar to Type 3 except eyes are turned 90° and nest easily on the crane hook.

Universal Link–Type U—Helps extend sling life by protecting webbing from abrasion on rough crane hooks. Features Unilink fitting with Web-Trap on each end for use in three hitch types. Unilinks allow choking from either end to help vary wear points.

Attached Eye Cargo Baskets–Type 9—Light-duty basket sling has a wide body for load stability.

No. of Plies	Width	Length	Vertical Hitch Capacity	Choker Hitch Cap.	Basket Hitch Capacity	Brand	Item No.
Endless - Type 5							
1	1"	3 ft.	2000 lb.	1600 lb.	4000 lb.	Lift-All	38R697
		4 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8U113
		6 ft.	2000 lb.	1600 lb.	4000 lb.	Lift-All	38R698
		6 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	8AR61
		6 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8EXX2
	2"	6 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	8PK93
		10 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	8ETL0
2	1"	4 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38V229
		4 ft.	6200 lb.	4900 lb.	12,400 lb.	Lift-All	38U182
		5 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38V230
		6 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38V231
	2"	6 ft.	9600 lb.	7700 lb.	19,200 lb.	Lift-All	8XCR5
		9 ft.	9600 lb.	7700 lb.	19,200 lb.	Lift-All	38V247
		12 ft.	12,400 lb.	9900 lb.	9900 lb.	Lift-All	9T011
Flat Eye and Eye - Type 3							
1	1"	2 ft.	1200 lb.	950 lb.	2400 lb.	Lift-All	38U821
		2 ft.	1600 lb.	1280 lb.	3200 lb.	Lift-All	38T753
		3 ft.	1000 lb.	800 lb.	2000 lb.	Lift-All	38R689
		3 ft.	1600 lb.	1280 lb.	3200 lb.	Lift-All	38T755
		4 ft.	1200 lb.	950 lb.	2400 lb.	Lift-All	8AWL0
		4 ft.	1600 lb.	1280 lb.	3200 lb.	Lift-All	38T756
		6 ft.	1000 lb.	800 lb.	2000 lb.	Lift-All	38R690
		6 ft.	1600 lb.	1280 lb.	3200 lb.	Lift-All	38T758
		6 ft.	2000 lb.	1600 lb.	4000 lb.	Lift-All	38R694
		8 ft.	1600 lb.	1280 lb.	3200 lb.	Lift-All	38T760
	2"	2 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	38U853
		2 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T790
		4 ft.	2000 lb.	1600 lb.	4000 lb.	Lift-All	38R691
		4 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	8AWL1
		4 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T793
		6 ft.	2000 lb.	1600 lb.	4000 lb.	Lift-All	38R692
		6 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T795
		6 ft.	4000 lb.	3200 lb.	8000 lb.	Lift-All	38R696
		8 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T797
		10 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T780
		12 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T782
		20 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T791
	3"	6 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38T833
		20 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38T829
		24 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	36LG60
	4"	10 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T855
		12 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T857
	6"	12 ft.	7200 lb.	5800 lb.	14,400 lb.	Lift-All	38U946
2	1"	2 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	38U988
		2 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T936
		3 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8Z262
		4 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	8RMP6
		4 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8EW55
		5 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	38U990
		6 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8EN90
		8 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	9T118
		10 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8UY66
		12 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	8EPC5
		20 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T937
	2"	2 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38V021
		2 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T968
		4 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	8UY67
		6 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	8YD55
		7 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T971
		8 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	9UGC0
		10 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	8EPC7
		12 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	9LGY6
		16 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T964
		18 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T966
		20 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38V022
		20 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38T969
	3"	4 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38U005
		6 ft.	6600 lb.	5280 lb.	13,200 lb.	Lift-All	9CTR5
		6 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38U007
		8 ft.	6600 lb.	5280 lb.	13,200 lb.	Lift-All	9R098
		8 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38U009
		10 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38T992
		12 ft.	6600 lb.	5280 lb.	13,200 lb.	Lift-All	9KEM3
		12 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38T994
		20 ft.	8800 lb.	7040 lb.	17,600 lb.	Lift-All	38U003
	4"	6 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U043
		8 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U045
		10 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U029
		12 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U031
		14 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U033
		20 ft.	11,500 lb.	9200 lb.	23,000 lb.	Lift-All	38U039
	6"	6 ft.	16,500 lb.	13,200 lb.	33,000 lb.	Lift-All	38U079
		20 ft.	16,500 lb.	13,200 lb.	33,000 lb.	Lift-All	38U075
4	1"	4 ft.	5000 lb.	4000 lb.	10,000 lb.	Lift-All	36LG61
Reverse Eye - Type 6 (With Wear-Resistant Cover)							
1	2"	4 ft.	3600 lb.	2900 lb.	7200 lb.	Lift-All	36LG62
Twisted Eye and Eye - Type 4							
1	2"	5 ft.	3200 lb.	2500 lb.	6400 lb.	Lift-All	38T814
		10 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	38U858
	3"	20 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38T847
	4"	12 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38U928
Universal Link - Type U							
1	2"	4 ft.	2400 lb.	1900 lb.	4800 lb.	Lift-All	38T053
2		3 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38R888
		4 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38R889
		5 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38R890
		8 ft.	4800 lb.	3800 lb.	9600 lb.	Lift-All	38T112
		20 ft.	6400 lb.	5000 lb.	12,800 lb.	Lift-All	38R887
	4"	8 ft.	8600 lb.	6900 lb.	17,200 lb.	Lift-All	38T148
	6"	20 ft.	16,500 lb.	13,200 lb.	33,000 lb.	Lift-All	38U093

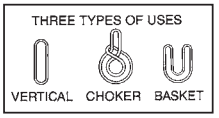
No. of Plies	Width	Length	Basket Hitch Capacity	Brand	Item No.
Attached Eye Cargo Basket - Type 9					
1	6"	4 ft.	3000 lb.	Stren-Flex	25K433
		6 ft.	3000 lb.	Stren-Flex	30H213
	8"	8 ft.	3000 lb.	Stren-Flex	25K439
	10"	6 ft.	3000 lb.	Stren-Flex	30H223
	12"	4 ft.	3000 lb.	Stren-Flex	25K448
		6 ft.	3000 lb.	Stren-Flex	30H228
		8 ft.	3000 lb.	Stren-Flex	25K449
	16"	4 ft.	5000 lb.	Stren-Flex	25K453
		6 ft.	5000 lb.	Stren-Flex	30H233
		12 ft.	5000 lb.	Stren-Flex	25K455
	20"	8 ft.	5000 lb.	Stren-Flex	25K459
	24"	6 ft.	5000 lb.	Stren-Flex	30H243
		8 ft.	5000 lb.	Stren-Flex	25K464
		12 ft.	5000 lb.	Stren-Flex	25K465
2	6"	4 ft.	6000 lb.	Stren-Flex	25K468
	12"	4 ft.	6000 lb.	Stren-Flex	25K483
		6 ft.	6000 lb.	Stren-Flex	30H263
		8 ft.	6000 lb.	Stren-Flex	25K484
	16"	4 ft.	10,000 lb.	Stren-Flex	25K488
		6 ft.	10,000 lb.	Stren-Flex	30H268
		10 ft.	10,000 lb.	Stren-Flex	30H269
	20"	6 ft.	10,000 lb.	Stren-Flex	30H273
		8 ft.	10,000 lb.	Stren-Flex	25K494
	24"	6 ft.	10,000 lb.	Stren-Flex	30H278
		8 ft.	10,000 lb.	Stren-Flex	25K499
		12 ft.	10,000 lb.	Stren-Flex	25K501
		14 ft.	10,000 lb.	Stren-Flex	30H280
		18 ft.	10,000 lb.	Stren-Flex	25K502



Dayton

LiftAll

Polyester Round Slings



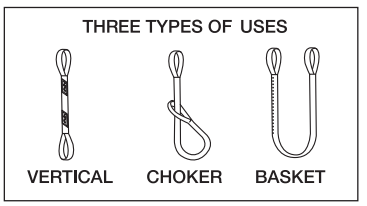
- Color-coded for quick identification
- Sling flattens against load to grip tightly
- Only 3% stretch for better load control

Load-bearing yarns protected by UV degradation and slings are resistant to grease and most acids. Wear points of all endless-style slings shift with each use for maximum sling life. Temperature range: -50° to 200°F. All load fibers protected by two woven covers. Eye and Eye style has an additional wear-resistant cover to extend sling life. Remove sling from service when red striped white core yarns are exposed. Meet or exceed all OSHA and ASME B30.9 Standards.

L	Eye Length	Vertical Load	Choker Hitch Cap.	Basket Hitch Capacity	Color Code	DAYTON Width Under Load	DAYTON Item No.	LIFT-ALL Width Under Load	LIFT-ALL Item No.
Endless									
3 ft.	—	2600 lb.	2100 lb.	5200 lb.	Purple	1⅛"	**2MJK3**	1"	**4A767**
3 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJL4**	1⅜"	**3KN79**
3 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN3**	1¾"	**2RU55**
4 ft.	—	2600 lb.	2100 lb.	5200 lb.	Purple	1⅛"	**2MJK5**	1"	**3KN75**
4 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJL6**	1⅜"	**3KN80**
4 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN4**	1¾"	**3KN81**
6 ft.	—	2600 lb.	2100 lb.	5200 lb.	Purple	1⅛"	**2MJK7**	1"	**3KN76**
6 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJL7**	1⅜"	**4A768**
6 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN5**	1¾"	**3KN82**
6 ft.	—	13,200 lb.	10,600 lb.	26,400 lb.	Red	2¼"	**2MJP1**	2"	**2RU58**
6 ft.	—	21,200 lb.	17,000 lb.	42,400 lb.	Blue	3"	**2MJP6**	2⅝"	**2RU61**
8 ft.	—	2600 lb.	2100 lb.	5200 lb.	Purple	1⅛"	**2MJK9**	1"	**3KN77**
8 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJL8**	1⅜"	**4A769**
8 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN6**	1¾"	**3KN83**
8 ft.	—	13,200 lb.	10,600 lb.	26,400 lb.	Red	2¼"	**2MJP2**	2"	**3KN73**
8 ft.	—	21,200 lb.	17,000 lb.	42,400 lb.	Blue	3"	**2MJP7**	2⅝"	**2RU62**
10 ft.	—	2600 lb.	2100 lb.	5200 lb.	Purple	1⅛"	**2MJL2**	1"	**2RU52**
10 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJL9**	1⅜"	**3KN78**
10 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN7**	1¾"	**4A770**
10 ft.	—	13,200 lb.	10,600 lb.	26,400 lb.	Red	2¼"	**2MJP3**	2"	**3KN72**
10 ft.	—	21,200 lb.	17,000 lb.	42,400 lb.	Blue	3"	**2MJP8**	2⅝"	**3KN74**
12 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJN1**	1⅜"	**2RU53**
12 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN8**	1¾"	**2RU56**
12 ft.	—	13,200 lb.	10,600 lb.	26,400 lb.	Red	2¼"	**2MJP4**	2"	**2RU59**
12 ft.	—	21,200 lb.	17,000 lb.	42,400 lb.	Blue	3"	**2MJP9**	2⅝"	**2RU63**
20 ft.	—	5300 lb.	4200 lb.	10,600 lb.	Green	1½"	**2MJN2**	1⅜"	**2RU54**
20 ft.	—	8400 lb.	6700 lb.	16,800 lb.	Yellow	1⅞"	**2MJN9**	1¾"	**2RU57**
20 ft.	—	13,200 lb.	10,600 lb.	26,400 lb.	Red	2¼"	**2MJP5**	2"	**2RU60**
20 ft.	—	21,200 lb.	17,000 lb.	42,400 lb.	Blue	3"	**2MJR1**	2⅝"	**2RU64**
Eye and Eye									
4 ft.	10"	2600 lb.	2100 lb.	5200 lb.	Purple	2¼"	**2MJR2**	2¼"	**2RU65**
4 ft.	10"	5300 lb.	4200 lb.	10,600 lb.	Green	2¼"	**2MJR4**	2½"	**2RU67**
4 ft.	12"	8400 lb.	6700 lb.	16,800 lb.	Yellow	2½"	**2MJR6**	2½"	**2RU69**
6 ft.	10"	2600 lb.	2100 lb.	5200 lb.	Purple	2¼"	**2MJR3**	2¼"	**2RU66**
6 ft.	10"	5300 lb.	4200 lb.	10,600 lb.	Green	2¼"	**2MJR5**	2½"	**2RU68**
6 ft.	12"	8400 lb.	6700 lb.	16,800 lb.	Yellow	2½"	**2MJR7**	2½"	**2RU70**



Twisted Eye and Eye - Type 4
Flat Eye and Eye - Type 3
Endless - Type 5



LiftAll

Poly Web Slings

- Woven surface yarns cover each side and carry a portion of the load
- Longitudinal core yarns carry the majority of load
- Red core warning yarns indicate damage
- Tuff-Tag™ provides serial numbered identification for traceability

Surface yarns are connected side to side to protect core yarns, but also position surface and tensile yarns to work together to support the load. Meet or exceed all OSHA and ASME B30.9 Standards.

Endless-Type 5—Versatile slings economically priced for use in all three types of hitches: vertical, choker, and basket. Spread sling legs for improved load balance. Sling rotates to minimize wear.

Flat Eye and Eye–Type 3—Popular slings for use in all three types of hitches: vertical, basket, and choker. Easier to remove from beneath the load than sling Types 1, 2, and 4.

Twisted Eye and Eye–Type 4—Similar to Type 3 except eyes are turned 90° and nest easily on the crane hook.

Universal Link-Type U—Helps extend sling life by protecting webbing from abrasion on rough crane hooks. Features Unilink fitting with Web-Trap on each end for use in three hitch types. Unilinks allow choking from either end to help vary wear points.

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
Endless - Type 5						
Single-Ply						
1"	2 ft.	3200 lb.	2500 lb.	6400 lb.	**38U637**	**38T668**
	4 ft.				**38U640**	**4ZV42**
	5 ft.				**38U641**	**38T670**
	6 ft.				**38U642**	**1A595**
	8 ft.				**38U644**	**4ZV43**
	9 ft.				**38U645**	**38T672**
	10 ft.				**38U627**	**9U386**
	12 ft.				**38U629**	**8WPP4**
	13 ft.				**38U630**	**38T661**
	14 ft.				**38U631**	**38T662**
	16 ft.				**38U633**	**38T664**
	17 ft.				**38U634**	**38T665**
	18 ft.				**38U635**	**38T666**
	20 ft.				**38U638**	**38T669**
2"	2 ft.	6400 lb.	5000 lb.	12,800 lb.	**38U656**	**38T681**
	4 ft.				**38U659**	**4ZV46**
	5 ft.				**38U660**	**38T684**
	6 ft.				**38U661**	**1A596**
	8 ft.				**38U663**	**38T686**
	9 ft.				**38U664**	**38T687**
	10 ft.				**38U646**	**4ZV44**
	12 ft.				**38U648**	**4ZV45**
	13 ft.				**38U649**	**38T674**
	14 ft.				**38U650**	**38T675**
	16 ft.				**38U652**	**38T677**
	17 ft.				**38U653**	**38T678**
	18 ft.				**38U654**	**38T679**
	20 ft.				**38U657**	**38T682**
3"	4 ft.	8800 lb.	7040 lb.	17,600 lb.	**38U677**	**38T701**
	5 ft.				**38U678**	**38T702**
	6 ft.				**38U679**	**38T703**
	8 ft.				**38U681**	**38T705**
	9 ft.				**38U682**	**38T706**
	10 ft.				**38U665**	**38T688**
	12 ft.				**38U667**	**38T690**
	13 ft.				**38U668**	**38T691**
	14 ft.				**38U669**	**38T692**
	16 ft.				**38U671**	**38T694**
	17 ft.				**38U672**	**38T695**
	18 ft.				**38U673**	**38T696**
	20 ft.				**38U675**	**38T698**
4"	4 ft.	11,500 lb.	9200 lb.	23,000 lb.	**38U695**	**38T719**
	5 ft.				**38U696**	**38T720**
	6 ft.				**38U697**	**38T721**
	8 ft.				**38U699**	**38T723**
	9 ft.				**38U701**	**38T724**
	10 ft.				**38U683**	**38T707**
	12 ft.				**38U685**	**38T709**
	13 ft.				**38U686**	**38T710**
	14 ft.				**38U687**	**38T711**
	16 ft.				**38U689**	**38T713**
	17 ft.				**38U690**	**38T714**
	18 ft.				**38U691**	**38T715**
	20 ft.				**38U693**	**38T717**
6"	4 ft.	16,500 lb.	13,200 lb.	33,000 lb.	**38U714**	**38T737**
	5 ft.				**38U715**	**38T738**
	6 ft.				**38U716**	**38T739**
	8 ft.				**38U718**	**38T741**
	9 ft.				**38U719**	**38T742**
	10 ft.				**38U702**	**38T725**
	12 ft.				**38U704**	**38T727**
	13 ft.				**38U705**	**38T728**
	14 ft.				**38U706**	**38T729**
	16 ft.				**38U708**	**38T731**
	17 ft.				**38U709**	**38T732**
	18 ft.				**38U710**	**38T733**
	20 ft.				**38U712**	**38T735**
Double-Ply						
1"	2 ft.	6200 lb.	4900 lb.	12,400 lb.	**38U730**	**38T422**
	5 ft.				**38U734**	**38T424**
	6 ft.				**38U735**	**38T425**
	8 ft.				**38U737**	**38T427**
	9 ft.				**38U738**	**38T428**
	10 ft.				**38U720**	**38T412**
	12 ft.				**38U722**	**38T414**
	13 ft.				**38U723**	**38T415**
	14 ft.				**38U724**	**38T416**
	16 ft.				**38U726**	**38T418**
	17 ft.				**38U727**	**38T419**
	18 ft.				**38U728**	**38T420**
	20 ft.				**38U731**	**38T423**

CONTINUED

CONTINUED

Poly Web Slings

LiftAll® PRODUCTS FOR BETTER LIFTING

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
Endless - Type 5 (Cont.)						
Double-Ply (Cont.)						
2"	2 ft.	12,400 lb.	9900 lb.	24,800 lb.	38U749	38T439
	4 ft.				38U752	38T442
	5 ft.				38U753	38T443
	6 ft.				38U754	38T444
	8 ft.				38U756	38T446
	9 ft.				38U757	38T447
	10 ft.				38U739	38T429
	12 ft.				38U741	38T431
	13 ft.				38U742	38T432
	14 ft.				38U743	38T433
	16 ft.				38U745	38T435
	17 ft.				38U746	38T436
	18 ft.				38U747	38T437
	20 ft.				38U750	38T440
3"	4 ft.	16,300 lb.	13,000 lb.	32,600 lb.	38U770	38T460
	5 ft.				38U771	38T461
	6 ft.				38U772	38T462
	8 ft.				38U774	38T464
	9 ft.				38U775	38T465
	10 ft.				38U758	38T448
	12 ft.				38U760	38T450
	13 ft.				38U761	38T451
	14 ft.				38U762	38T452
	16 ft.				38U764	38T454
	17 ft.				38U765	38T455
	18 ft.				38U766	38T456
	20 ft.				38U768	38T458
4"	4 ft.	20,700 lb.	16,500 lb.	41,400 lb.	38U788	38T478
	5 ft.				38U789	38T479
	6 ft.				38U790	38T480
	8 ft.				38U792	38T482
	9 ft.				38U793	38T483
	10 ft.				38U776	38T466
	12 ft.				38U778	38T468
	13 ft.				38U779	38T469
	14 ft.				38U780	38T470
	16 ft.				38U782	38T472
	17 ft.				38U783	38T473
	18 ft.				38U784	38T474
	20 ft.				38U786	38T476
6"	4 ft.	28,600 lb.	23,000 lb.	57,200 lb.	38U807	38T496
	5 ft.				38U808	38T497
	6 ft.				38U809	38T498
	8 ft.				38U811	38T501
	9 ft.				38U812	38T502
	10 ft.				38U794	38T484
	12 ft.				38U796	38T486
	13 ft.				38U797	38T487
	14 ft.				38U798	38T488
	16 ft.				38U801	38T490
	17 ft.				38U802	38T491
	18 ft.				38U803	38T492
	20 ft.				38U805	38T494
Flat Eye and Eye - Type 3						
Single-Ply						
1"	4 ft.	1600 lb.	1280 lb.	3200 lb.	38U268	4ZT98
	6 ft.				38U270	4ZT99
	8 ft.				38U272	4ZV01
	9 ft.				38U273	38T515
	10 ft.				38U255	38T503
	12 ft.				38U257	38T505
	13 ft.				38U258	38T506
	14 ft.				38U259	38T507
	16 ft.				38U261	38T509
	17 ft.				38U262	38T510
	18 ft.				38U263	38T511
	20 ft.				38U266	38T513
2"	2 ft.	3200 lb.	2500 lb.	6400 lb.	38U304	38T541
	4 ft.				38U307	4ZV04
	5 ft.				38U308	38T542
	6 ft.				38U309	1A597
	8 ft.				38U311	1A598
	9 ft.				38U312	38T544
	10 ft.				38U293	4ZV02
	12 ft.				38U295	2RU89
	13 ft.				38U296	38T536
	14 ft.				38U297	38T537
	16 ft.				38U299	38T538
	17 ft.				38U301	38T539
	18 ft.				38U302	4ZV03
	20 ft.				38U305	2RU90
3"	4 ft.	4800 lb.	3800 lb.	9600 lb.	38U344	38T571
	5 ft.				38U345	38T572
	6 ft.				38U346	1A599
	8 ft.				38U348	4ZV08
	9 ft.				38U349	38T574
	10 ft.				38U332	4ZV05
	12 ft.				38U334	4ZV06
	13 ft.				38U335	38T565
	14 ft.				38U336	38T566
	16 ft.				38U338	38T567
	17 ft.				38U339	38T568
	18 ft.				38U340	4ZV07
	20 ft.				38U342	2RU91
4"	4 ft.	6400 lb.	5000 lb.	12,800 lb.	38U380	38T602
	5 ft.				38U381	38T603
	6 ft.				38U382	4ZV10
	8 ft.				38U384	1A600
	9 ft.				38U385	38T605
	10 ft.				38U368	6A259
	12 ft.				38U370	8AHE8
	13 ft.				38U371	38T594
	14 ft.				38U372	38T595
	16 ft.				38U374	38T596
	17 ft.				38U375	38T597
	18 ft.				38U376	38T598
	20 ft.				38U378	4ZV09
6"	4 ft.	9600 lb.	7700 lb.	19,200 lb.	38U417	38T636
	5 ft.				38U418	38T637
	6 ft.				38U419	38T638
	8 ft.				38U421	38T640
	9 ft.				38U422	38T641
	10 ft.				38U405	38T624
	12 ft.				38U407	38T626
	13 ft.				38U408	38T627
	14 ft.				38U409	38T628
	16 ft.				38U411	38T630
	17 ft.				38U412	38T631
	18 ft.				38U413	38T632
	20 ft.				38U415	38T634
Double-Ply						
1"	4 ft.	3200 lb.	2500 lb.	6400 lb.	38U454	4ZV24
	5 ft.				38U455	38T269
	6 ft.				38U456	4ZV25
	8 ft.				38U458	4ZV26
	9 ft.				38U459	38T271
	10 ft.				38U441	2RU93
	12 ft.				38U443	38T260
	13 ft.				38U444	38T261
	14 ft.				38U445	38T262
	16 ft.				38U447	38T264
	17 ft.				38U448	38T265
	18 ft.				38U449	38T266
	20 ft.				38U452	38T268
2"	4 ft.	6400 lb.	5000 lb.	12,800 lb.	38U492	4ZV29
	5 ft.				38U493	38T296
	6 ft.				38U494	4ZV30
	8 ft.				38U496	6A241
	9 ft.				38U497	38T298
	10 ft.				38U479	6A242
	12 ft.				38U481	4ZV27
	13 ft.				38U482	38T292
	16 ft.				38U485	2RU95
	17 ft.				38U486	38T294
	18 ft.				38U487	4ZV28
	20 ft.				38U490	2RU96
3"	5 ft.	8800 lb.	7040 lb.	17,600 lb.	38U531	38T326
	6 ft.				38U532	6A243
	8 ft.				38U534	6A244
	9 ft.				38U535	38T328
	10 ft.				38U518	6A245
	12 ft.				38U520	4ZV31
	13 ft.				38U521	38T320
	14 ft.				38U522	38T321
	16 ft.				38U524	2RU97
	17 ft.				38U525	38T323
	18 ft.				38U526	4ZV32
	20 ft.				38U528	2RU98
4"	4 ft.	11,500 lb.	9200 lb.	23,000 lb.	38U566	38T354
	5 ft.				38U567	38T355
	6 ft.				38U568	4ZV34
	8 ft.				38U570	6A246
	9 ft.				38U571	38T357
	10 ft.				38U554	6A247
	12 ft.				38U556	6A248
	13 ft.				38U557	38T348
	16 ft.				38U560	2RU99
	17 ft.				38U561	38T350
	18 ft.				38U562	38T351
	20 ft.				38U564	4ZV33
6"	4 ft.	16,500 lb.	13,200 lb.	33,000 lb.	38U603	38T388
	5 ft.				38U604	38T389
	6 ft.				38U605	38T390
	8 ft.				38U607	38T392
	9 ft.				38U608	38T393
	10 ft.				38U590	38T376
	12 ft.				38U592	38T378
	13 ft.				38U593	38T379
	14 ft.				38U594	38T380
	16 ft.				38U596	38T382
	17 ft.				38U597	38T383
	18 ft.				38U598	38T384
	20 ft.				38U601	38T386
Twisted Eye and Eye - Type 4						
Single-Ply						
1"	2 ft.	1600 lb.	1280 lb.	3200 lb.	38U284	38T526
	4 ft.				38U287	38T529
	5 ft.				38U288	38T530
	6 ft.				38U289	38T531
	8 ft.				38U291	38T533
	9 ft.				38U292	38T534
	10 ft.				38U274	38T516
	12 ft.				38U276	38T518
	13 ft.				38U277	38T519
	14 ft.				38U278	38T520
	16 ft.				38U280	38T522
	17 ft.				38U281	38T523
	18 ft.				38U282	38T524
	20 ft.				38U285	38T527

CONTINUED



CONTINUED Poly Web Slings

LiftAll PRODUCTS FOR BETTER LIFTING

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
Twisted Eye and Eye - Type 4 (Cont.)						
Single-Ply (Cont.)						
2"	2 ft.	3200 lb.	2500 lb.	6400 lb.	38U323	38T555
	4 ft.				38U326	38T558
	5 ft.				38U327	38T559
	6 ft.				38U328	38T560
	8 ft.				38U330	38T562
	9 ft.				38U331	38T563
	10 ft.				38U313	38T545
	12 ft.				38U315	38T547
	13 ft.				38U316	38T548
	14 ft.				38U317	38T549
	16 ft.				38U319	38T551
	17 ft.				38U320	38T552
	18 ft.				38U321	38T553
	20 ft.				38U324	38T556
3"	4 ft.	4800 lb.	3800 lb.	9600 lb.	38U362	38T587
	5 ft.				38U363	38T588
	6 ft.				38U364	38T589
	8 ft.				38U366	38T591
	9 ft.				38U367	38T592
	10 ft.				38U350	38T575
	12 ft.				38U352	38T577
	13 ft.				38U353	38T578
	14 ft.				38U354	38T579
	16 ft.				38U356	38T581
	17 ft.				38U357	38T582
	18 ft.				38U358	38T583
	20 ft.				38U360	38T585
4"	4 ft.	6400 lb.	5000 lb.	12,800 lb.	38U398	38T618
	5 ft.				38U399	38T619
	6 ft.				38U401	38T620
	8 ft.				38U403	38T622
	9 ft.				38U404	38T623
	10 ft.				38U386	38T606
	12 ft.				38U388	38T608
	13 ft.				38U389	38T609
	14 ft.				38U390	38T610
	16 ft.				38U392	38T612
	17 ft.				38U393	38T613
	18 ft.				38U394	38T614
	20 ft.				38U396	38T616
6"	4 ft.	9600 lb.	7700 lb.	19,200 lb.	38U435	38T654
	5 ft.				38U436	38T655
	6 ft.				38U437	38T656
	8 ft.				38U439	38T658
	9 ft.				38U440	38T659
	10 ft.				38U423	38T642
	12 ft.				38U425	38T644
	13 ft.				38U426	38T645
	14 ft.				38U427	38T646
	16 ft.				38U429	38T648
	17 ft.				38U430	38T649
	18 ft.				38U431	38T650
	20 ft.				38U433	38T652
Double-Ply						
1"	2 ft.	3200 lb.	2500 lb.	6400 lb.	38U470	38T282
	4 ft.				38U473	38T285
	5 ft.				38U474	38T286
	6 ft.				38U475	38T287
	8 ft.				38U477	38T289
	9 ft.				38U478	38T290
	10 ft.				38U460	38T272
	12 ft.				38U462	38T274
	13 ft.				38U463	38T275
	14 ft.				38U464	38T276
	16 ft.				38U466	38T278
	17 ft.				38U467	38T279
	18 ft.				38U468	38T280
	20 ft.				38U471	38T283
2"	2 ft.	6400 lb.	5000 lb.	12,800 lb.	38U509	38T310
	4 ft.				38U512	38T313
	5 ft.				38U513	38T314
	6 ft.				38U514	38T315
	8 ft.				38U516	38T317
	9 ft.				38U517	38T318
	10 ft.				38U498	38T299
	12 ft.				38U501	38T302
	13 ft.				38U502	38T303
	14 ft.				38U503	38T304
	16 ft.				38U505	38T306
	17 ft.				38U506	38T307
	18 ft.				38U507	38T308
	20 ft.				38U510	38T311
3"	4 ft.	8800 lb.	7040 lb.	17,600 lb.	38U548	38T341
	5 ft.				38U549	38T342
	6 ft.				38U550	38T343
	8 ft.				38U552	38T345
	9 ft.				38U553	38T346
	10 ft.				38U536	38T329
	12 ft.				38U538	38T331
	13 ft.				38U539	38T332
	14 ft.				38U540	38T333
	16 ft.				38U542	38T335
	17 ft.				38U543	38T336
	18 ft.				38U544	38T337
	20 ft.				38U546	38T339
4"	4 ft.	11,500 lb.	9200 lb.	23,000 lb.	38U584	38T370
	5 ft.				38U585	38T371
	6 ft.				38U586	38T372
	8 ft.				38U588	38T374
	9 ft.				38U589	38T375
	10 ft.				38U572	38T358
	12 ft.				38U574	38T360
	13 ft.				38U575	38T361
	14 ft.				38U576	38T362
	16 ft.				38U578	38T364
	17 ft.				38U579	38T365
	18 ft.				38U580	38T366
	20 ft.				38U582	38T368
6"	4 ft.	16,500 lb.	13,200 lb.	33,000 lb.	38U621	38T406
	5 ft.				38U622	38T407
	6 ft.				38U623	38T408
	8 ft.				38U625	38T410
	9 ft.				38U626	38T411
	10 ft.				38U609	38T394
	13 ft.				38U612	38T396
	14 ft.				38U613	38T397
	16 ft.				38U615	38T399
	17 ft.				38U616	38T401
	18 ft.				38U617	38T402
	20 ft.				38U619	38T404
Universal Link - Type U						
Single-Ply						
2"	4 ft.	3200 lb.	2500 lb.	6400 lb.	38R944	38R730
	6 ft.				38R946	6A251
	8 ft.				38R948	38R732
	9 ft.				38R949	38R733
	10 ft.				38R932	38R718
	12 ft.				38R934	38R720
	13 ft.				38R935	38R721
	14 ft.				38R936	38R722
	16 ft.				38R938	38R724
	17 ft.				38R939	38R725
	18 ft.				38R940	38R726
	20 ft.				38R942	38R728
3"	4 ft.	4800 lb.	3800 lb.	9600 lb.	38R962	38R746
	5 ft.				38R963	38R747
	6 ft.				38R964	38R748
	8 ft.				38R966	38R750
	9 ft.				38R967	38R751
	10 ft.				38R950	38R734
	12 ft.				38R952	38R736
	13 ft.				38R953	38R737
	14 ft.				38R954	38R738
	16 ft.				38R956	38R740
	17 ft.				38R957	38R741
	18 ft.				38R958	38R742
	20 ft.				38R960	38R744
4"	4 ft.	6400 lb.	5000 lb.	12,800 lb.	38R980	38R764
	5 ft.				38R981	38R765
	6 ft.				38R982	6A252
	8 ft.				38R984	6A253
	9 ft.				38R985	38R767
	10 ft.				38R968	38R752
	12 ft.				38R970	38R754
	13 ft.				38R971	38R755
	14 ft.				38R972	38R756
	16 ft.				38R974	38R758
	17 ft.				38R975	38R759
	18 ft.				38R976	38R760
	20 ft.				38R978	38R762
Double-Ply						
2"	4 ft.	6400 lb.	5000 lb.	12,800 lb.	38R998	38R780
	5 ft.				38R999	38R781
	6 ft.				38T001	38R782
	8 ft.				38T003	38R784
	9 ft.				38T004	38R785
	10 ft.				38R986	38R768
	12 ft.				38R988	38R770
	13 ft.				38R989	38R771
	14 ft.				38R990	38R772
	16 ft.				38R992	38R774
	17 ft.				38R993	38R775
	18 ft.				38R994	38R776
	20 ft.				38R996	38R778
3"	4 ft.	8800 lb.	7040 lb.	17,600 lb.	38T017	38R798
	5 ft.				38T018	38R799
	6 ft.				38T019	38R801
	8 ft.				38T021	38R803
	9 ft.				38T022	38R804
	10 ft.				38T005	38R786
	12 ft.				38T007	38R788
	13 ft.				38T008	38R789
	14 ft.				38T009	38R790
	16 ft.				38T011	38R792
	17 ft.				38T012	38R793
	18 ft.				38T013	38R794
	20 ft.				38T015	38R796
4"	4 ft.	11,500 lb.	9200 lb.	23,000 lb.	38T035	38R817
	5 ft.				38T036	38R818
	6 ft.				38T037	38R819
	8 ft.				38T039	38R821
	9 ft.				38T040	38R822
	10 ft.				38T023	38R805
	12 ft.				38T025	38R807
	13 ft.				38T026	38R808
	14 ft.				38T027	38R809
	16 ft.				38T029	38R811
	17 ft.				38T030	38R812
	18 ft.				38T031	38R813
	20 ft.				38T033	38R815



No. 6A257



No. 38X511

Wire Mesh Slings

LiftAll®

- Galvanized high-tensile steel mesh
- Use in basket or choker hitch
- Terminal thickness ½"

Use Roughneck 10-ga. wire mesh slings in metalworking or other industries where loads are abrasive, hot, or tend to cut web slings. Withstand temperatures to 550°F. Plated fittings fit most crane hooks.

Width	Length	Terminal Dia.	Choker Hitch Cap.	Basket Hitch Capacity	TRIANGLE AND CHOKER - TYPE 1 Item No.	TRIANGLE AND TRIANGLE - TYPE 2 Item No.
2"	4 ft.	2"	2300 lb.	4600 lb.	38X501	38X511
	6 ft.	2"	2300 lb.	4600 lb.	38X502	38X512
	8 ft.	2"	2300 lb.	4600 lb.	38X503	38X513
	10 ft.	2"	2300 lb.	4600 lb.	38X493	38X504
3"	4 ft.	2¼"	3500 lb.	7000 lb.	38X521	38X531
	6 ft.	2¼"	3500 lb.	7000 lb.	38X522	38X532
	8 ft.	2¼"	3500 lb.	7000 lb.	38X523	38X533
	10 ft.	2¼"	3500 lb.	7000 lb.	38X514	38X524
4"	4 ft.	3"	4800 lb.	9600 lb.	38X541	38X549
	6 ft.	3"	4800 lb.	9600 lb.	6A257	38X550
	8 ft.	3"	4800 lb.	9600 lb.	6A258	38X551
	10 ft.	3"	4800 lb.	9600 lb.	38X534	38X542
6"	4 ft.	3½"	7200 lb.	14,400 lb.	38X559	38X569
	6 ft.	3½"	7200 lb.	14,400 lb.	38X560	38X570
	8 ft.	3½"	7200 lb.	14,400 lb.	38X561	38X571
	10 ft.	3½"	7200 lb.	14,400 lb.	38X552	38X562
8"	4 ft.	4½"	9600 lb.	19,200 lb.	38X578	38X588
	6 ft.	4½"	9600 lb.	19,200 lb.	38X579	38X589
	8 ft.	4½"	9600 lb.	19,200 lb.	38X580	38X590
	10 ft.	4½"	9600 lb.	19,200 lb.	38X572	38X581

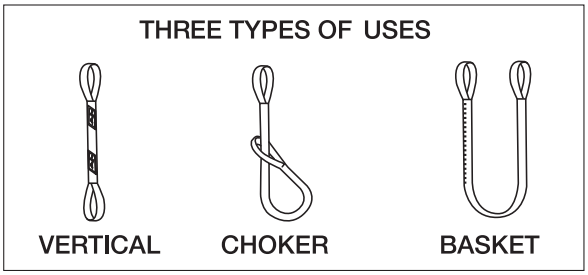


Hardware Web Slings

LiftAll®

Polyester webbing with metal eyes at both ends. Suitable for choker and basket configurations.

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Item No.
2"	6 ft.	3200 lb.	2500 lb.	6400 lb.	6A251
4"	6 ft.	6400 lb.	5000 lb.	12,800 lb.	6A252
4"	8 ft.	6400 lb.	5000 lb.	12,800 lb.	6A253





Wire Rope Slings

Dayton® LiftAll®

Eye and Eye slings constructed of 6 x 19 IWRC (Independent Wire Rope Core) class wire rope. Operating temperature rating: -60° to 400°F.

Rope Dia.	L	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	DAYTON Item No.	LIFT-ALL Item No.
¼"	2 ft.	1300 lb.	960 lb.	2600 lb.	1DNG7	2RU71
¼"	3 ft.	1300 lb.	960 lb.	2600 lb.	1DNG8	2RU72
¼"	4 ft.	1300 lb.	960 lb.	2600 lb.	1DND9	1A591
⅜"	2 ft.	2800 lb.	2200 lb.	5800 lb.	1DNG9	2RU73
⅜"	3 ft.	2800 lb.	2200 lb.	5800 lb.	1DNH2	2RU75
⅜"	4 ft.	2800 lb.	2200 lb.	5800 lb.	1DNF6	4ZT78
⅜"	6 ft.	2800 lb.	2200 lb.	5800 lb.	1DNE1	1A592
⅜"	8 ft.	2800 lb.	2200 lb.	5800 lb.	1DNF7	4ZT79
⅜"	10 ft.	2800 lb.	2200 lb.	5800 lb.	1DNF5	4ZT77
½"	4 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNE8	4ZT69
½"	5 ft.	5000 lb.	3800 lb.	10,200 lb.	—	38Z444 *
½"	6 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNE2	1A593
½"	8 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNE3	1A594
½"	10 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNE6	4ZT67
½"	11 ft.	5000 lb.	3800 lb.	10,200 lb.	—	38Z431 *
½"	12 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNE7	4ZT68
½"	20 ft.	5000 lb.	3800 lb.	10,200 lb.	1DNH1	2RU74
⅝"	4 ft.	7800 lb.	5800 lb.	15,600 lb.	1DNG1	4ZT82
⅝"	6 ft.	7800 lb.	5800 lb.	15,600 lb.	1DNG2	4ZT83
⅝"	8 ft.	7800 lb.	5800 lb.	15,600 lb.	1DNG3	4ZT84
⅝"	10 ft.	7800 lb.	5800 lb.	15,600 lb.	1DNF8	4ZT80
⅝"	10 ft.	7800 lb.	5800 lb.	15,600 lb.	—	38Z796 *
⅝"	12 ft.	7800 lb.	5800 lb.	15,600 lb.	1DNF9	4ZT81
⅝"	20 ft.	7800 lb.	5800 lb.	15,600 lb.	—	2RU76
¾"	4 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNF2	4ZT74
¾"	6 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNF3	4ZT75
¾"	8 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNF4	4ZT76
¾"	10 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNE9	4ZT72
¾"	10 ft.	11,200 lb.	8200 lb.	22,000 lb.	—	38Z651 *
¾"	12 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNF1	4ZT73
¾"	20 ft.	11,200 lb.	8200 lb.	22,000 lb.	1DNH4	2RU77
1"	8 ft.	19,600 lb.	14,400 lb.	40,000 lb.	—	38Z593 *
1"	10 ft.	19,600 lb.	14,400 lb.	40,000 lb.	1DNE4	4ZT65
1"	10 ft.	19,600 lb.	14,400 lb.	40,000 lb.	—	38Z577 *
1"	12 ft.	19,600 lb.	14,400 lb.	40,000 lb.	1DNE5	4ZT66
1"	20 ft.	19,600 lb.	14,400 lb.	40,000 lb.	1DNH5	2RU78
1"	20 ft.	19,600 lb.	14,400 lb.	40,000 lb.	—	38Z587 *

** Made using imported rope.*

Wear Pads

LiftAll® B/A PRODUCTS CO.

Help protect against property damage and personal injury. Attach easily with hook-and-loop fastener closures and move to other slings, as needed. Sewn construction. Color coded by pad thickness/material construction.

Thickness	For Sling Width	L	Material	Color	Brand	Item No.
3/16"	2"	12"	Pukka	Yellow	Lift-All	4JY68
	4"	12"	Pukka	Yellow	Lift-All	4JY69
	4"	24"	Polyester	Yellow	B/A Products Co.	12M168
	6"	24"	Polyester	Yellow	B/A Products Co.	12M169
	8"	24"	Polyester	Yellow	B/A Products Co.	12M170
	12"	24"	Polyester	Yellow	B/A Products Co.	12M171
⅜"	1"	1 ft.	Nylon	Yellow	Lift-All	36LG49
	2"	1 ft.	Nylon	Yellow	Lift-All	36LG51
5/16"	2"	12"	Pukka	White	Lift-All	4JY70
	4"	12"	Pukka	White	Lift-All	4JY71



No. 36LG49



No. 4JY70

Winch Selection Guide

Winch Rating—Pulling capacity or the "rated max. load" for a winch is determined by the max. load a winch can pull with only the first layer of rope on the drum, an industry standard. Full capacity is retained on the first two layers. This rating does not include any friction factors, which will vary according to the specific applications.

Pulling vs. Lifting—Unless specifically indicated, the winches featured are designed for pulling only. Winches may not have all of the features necessary for every lifting application. Winches rated for lifting are marked as such. Winches are not designed to meet hoisting applications. Refer to all ANSI/ASME requirements for specific applications. All of the winches featured are not to be used for lifting, supporting, or transporting people or loads over areas where people could be present.

Power—Most Dayton® electric and hydraulic winches have power "in" and "out". Some also have a clutch and/or freewheel feature.

Duty Cycle—Unless specified otherwise, most electric DC and AC powered winches cannot be operated continuously. To do this will overheat and damage the motor. The typical normal duty cycle is 1 to 3 min. ON, followed by a 20-min. cool-down period. For more frequent operation needs, refer to long cycle or longer duty rated electric units, and continuous duty rated hydraulic winches.

ROLLING WEIGHT

Rated Line Pull (RLP)*	Grade 10%	20%	40%	60%	80%	100%
1000 lb.	5025	3401	2155	1664	1422	1285
1500 lb.	7538	5102	3233	2496	2134	1928
2000 lb.	10,050	6803	4308	2816	2407	2175
2500 lb.	12,563	8503	5388	4160	3556	3213
3000 lb.	15,075	10,251	6428	4991	4268	3854
3500 lb.	17,588	11,905	7543	5824	4979	4499
4000 lb.	20,100	13,668	8643	6655	5690	5138
4500 lb.	22,613	15,306	9698	7488	6401	5784
5000 lb.	25,126	17,009	10,776	8320	7112	6427
6000 lb.	30,151	20,408	12,931	9983	8535	7712
9000 lb.	45,226	30,612	19,397	14,975	12,802	11,568

* Most winch ratings are based on the first layer of wire rope on the drum. You could experience a loss of up to 13% pulling capacity per layer of wire rope (see example below)

Rolling Weight—For safe, sure loading, find the column in the table that matches your percentage of slope or grade. Determine the slope by dividing the amount of your rise by ramp length. Match the slope with the nearest weight of what you may be pulling, always round up, and locate the corresponding winch Rated Line Pull (RLP)*. This guide includes 10% rolling friction. Some applications may require larger capacity winches than indicated. To convert lb. to kg. multiply by 0.4536.

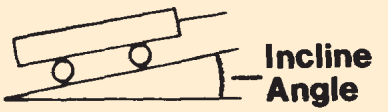
- **A 10% grade is a rise of 1 ft. in 10 ft.**
- **Winches are not intended as a load securing device**
- **Secure load with appropriate tiedowns**

ROLLING LOAD CAPACITY

Maximum Pull Capacities For Rolling Type Loads at Various Angles of Inclines

Percent Incline	Multiply by:	Percent Incline	Multiply by:
Level Surface	10	30 (17°)	2.61
5 (3°)	6.67	50 (26°)	1.86
10 (6°)	5.02	70 (35°)	1.53
20 (11°)	3.4	100 (45°)	1.29

To calculate the rolling load capacity of a winch (the amount of load that can be pulled up an incline), multiply the rated capacity, single or double line, by the factor shown in the chart at the left. Multiplication factor shown includes a 10% rolling friction factor; actual friction factors may vary.



Example of the effect of each layer of cable drum wind on Rated Line Pull (RLP) and rolling loads for a 5000-lb. capacity winch. RLP-The weight the winch can pull perpendicular to the ground with a single line on the first layer of wire rope on drum.

5000 lb. Capacity Winch	RLP	10%	20%	40%	60%	80%	100%
1st layer	5000 lb.	25,126	17,007	10,776	8320	7112	6427
2nd layer	4231 lb.	21,260	14,390	9118	7040	6018	5438
3rd layer	3667 lb.	18,426	12,471	7902	6101	5216	4713
4th layer	3236 lb.	16,258	11,004	6972	5383	4602	4159
5th layer	2894 lb.	14,547	9846	6239	4817	4118	3721

When to Consider a Pulley Block— If you need to offset the winch but retain a straight shot, a pulley block lets you, with a hook for mounting and a pulley for the wire rope. A pulley block also adds to the winch's pulling capacity; simply attach the pulley block's hook directly to the load and the winch's hook to a sturdy mount nearby.

Electrical Performance—To maintain electrical performance from a battery to the winch, it is recommended dropping three wire sizes for every doubling of the length of the standard wire harness. Example: No. 6 to No. 3 or 2 ga.





FEATURE EXPLANATION FOR CHARTS

1. Clutch Release—Ability to control release of a load with a clutch instead of a winch motor.

2. Freewheel—Ability to pull cable freely from the winch drum by hand under no load conditions.

3. Pulley Block—For double line winch operation and pull redirection. Doubles pulling capacity of winch, but results in lower speed, lower amp draw, and longer run time.

4. Mechanical Brake—Friction within the winch gears or separate friction brake device which automatically holds the load in position when the power switch is released.

5. Dynamic Brake—Electromechanical stopping and holding of a motor that holds a load only when there is power connected to the winch.

TYPES OF GEARING

Planetary Gearing—Has a coaxial shaft capable of large reductions in a small space. Capable of handling high bearing loads.

Worm Gearing—Has right-angle shafting, requires only two gears, and is self locking. Generally provides high ratios.

Spur Gearing—A simple gear design using two or more parallel shafts with gears operating in the same plane. Produces less friction than worm or planetary gearing for greater efficiency. Requires a braking system.

Find more information on winch selection on page 1080.



Medium-Duty



Premium Truck



Heavy-Duty Truck



Heavy-Duty

12/24VDC Electric Winches

Versatile wenches for a variety of pulling tasks.

Utility—No. 29JU84 is ideal for use on trailers or hitch mounts. Easy-to-use clutch lever and corded remote control. Use No. 29JU85 for trailers or the jobsite. Includes durable steel rope, roller fairlead, and remote control.

Medium-Duty Truck—Cone brake holds the full-rated load for trucks and SUVs. Features low-profile design with separate control box. Chip-resistant, powder-coated finish.

Premium Truck—Built to last. Offers durability, style, and performance for trucks, Jeeps, and SUVs. Premium components. Full IP68 waterproofing. Rated to 408 hr. in rigorous salt-spray tests. Large dia. drum for durable rope attachment and long rope life. Convertible control pack for upright or low-profile mounting.

Heavy-Duty Truck—Handles the heaviest winch loads. Features cone brake and chip-resistant, powder-coated finish to resist corrosion. Nos. 3EXT2 and 16Y217 include remote-mount control box. No. 3EXT3 has thermometric indicator for feedback via LED on remote control.

Powersport Winches—All-metal construction with advanced digital controls, built-in load limiter, and clutch design. IP68 waterproof sealing. Modular controls for expandability. Standard-duty permanent magnet motor on Nos. 492P72 to 492P77. Use on ATVs and 2-person side by sides. Nos. 492P78 to 492P84 feature Motactor™ (motor + digital contactor) which simplifies winch installation and increases performance. Ideal for ATVs and 4-person side by sides.

Pulling Capacity *	1st Layer Line Speed	No Load Line Speed	Voltage Rating	Full Load Amps	Rope Material	Included Rope Dia.	Included Rope Length	Gear Type	Clutch Release	Mechanical Brake	Winch Dim. L	Winch Dim. W	Winch Dim. H	Item No.
Utility														
2000 lb.	4.4 fpm	7.0 fpm	12VDC	83	Wire	3/16"	35 ft.	Compound Coupled Planetary Gear	Yes	No	13"	4"	6"	**29JU84**
4000 lb.	5.5 fpm	20.0 fpm	12VDC	297	Wire	7/32"	43 ft.	3-Stage Planetary	Yes	No	16"	16"	7"	**29JU85**
Medium-Duty Truck														
8000 lb.	8.0 fpm	42.0 fpm	12VDC	435	Wire	5/16"	100 ft.	3-Stage Planetary	Yes	Yes	18"	26"	8"	**16Y216**
9000 lb.	6.3 fpm	38.0 fpm	12VDC	460	Wire	5/16"	100 ft.	3-Stage Planetary	Yes	Yes	21 4/5"	6 19/64"	7 3/5"	**3EXT1**
Premium Truck														
8000 lb.	6.3 fpm	42.0 fpm	12VDC	413	Wire	5/16"	100 ft.	3-Stage Planetary	Yes	Yes	24"	7"	11"	**29JU92**
	6.3 fpm	42.0 fpm	12VDC	413	Synthetic	3/8"	100 ft.	3-Stage Planetary	Yes	Yes	24"	7"	11"	**29JU93**
10,000 lb.	4.7 fpm	33.0 fpm	12VDC	409	Wire	3/8"	100 ft.	3-Stage Planetary	Yes	Yes	24"	7"	11"	**29JU94**
	4.7 fpm	33.0 fpm	12VDC	409	Synthetic	3/8"	100 ft.	3-Stage Planetary	Yes	Yes	24"	7"	11"	**29JU95**
12,000 lb.	3.2 fpm	30.0 fpm	12VDC	438	Wire	3/8"	80 ft.	3-Stage Planetary	Yes	Yes	24"	7"	11"	**29JU99**
Heavy-Duty Truck														
12,000 lb.	3.8 fpm	30.0 fpm	12VDC	440	Wire	3/8"	125 ft.	3-Stage Planetary	Yes	Yes	24 3/8"	8 1/2"	11"	**3EXT2**
15,000 lb.	2.4 fpm	22.2 fpm	12VDC	460	Wire	7/16"	90 ft.	3-Stage Planetary	Yes	Yes	28 1/4"	13"	10 1/4"	**16Y217**
16,500 lb.	3.2 fpm	23.6 fpm	12VDC	507	Wire	7/16"	90 ft.	3-Stage Planetary	Yes	Yes	24 1/5"	8 1/2"	9 2/3"	**3EXT3**
Powersports														
2500 lb.	14.3 fpm	17.5 fpm	12VDC	159	Galvanized Steel Cable	3/16"	50 ft.	3-Stage Planetary	Yes	Yes	13 3/16"	13 3/16"	4 47/64"	**492P72**
	14.3 fpm	17.5 fpm	12VDC	159	Synthetic	3/16"	50 ft.	3-Stage Planetary	Yes	Yes	13 3/16"	13 3/16"	4 47/64"	**492P73**
3500 lb.	13.4 fpm	15.8 fpm	12VDC	192	Galvanized Steel Cable	7/32"	50 ft.	3-Stage Planetary	Yes	Yes	13 23/64"	13 23/64"	4 47/64"	**492P74**
	13.4 fpm	15.8 fpm	12VDC	192	Synthetic	3/16"	50 ft.	3-Stage Planetary	Yes	Yes	13 25/64"	13 23/64"	4 47/64"	**492P75**
	17.8 fpm	20.0 fpm	12VDC	204	Galvanized Steel Cable	7/32"	50 ft.	3-Stage Planetary	Yes	Yes	13 5/16"	13 5/16"	4 3/4"	**492P78**
	17.8 fpm	20.0 fpm	12VDC	204	Synthetic	3/16"	50 ft.	3-Stage Planetary	Yes	Yes	13 5/16"	13 5/16"	4 3/4"	**492P79**
4500 lb.	13.8 fpm	16.3 fpm	12VDC	208	Galvanized Steel Cable	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	15"	15"	4 53/64"	**492P81**
	13.8 fpm	16.3 fpm	12VDC	208	Synthetic	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	15"	15"	4 53/64"	**492P82**
	14.0 fpm	16.3 fpm	12VDC	198	Synthetic	1/4"	25 ft.	3-Stage Planetary	Yes	Yes	13 5/16"	13 5/16"	4 3/4"	**492P80**
	14.1 fpm	16.2 fpm	12VDC	252	Galvanized Steel Cable	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	14 31/32"	14 31/32"	4 47/64"	**492P76**
	14.1 fpm	16.2 fpm	12VDC	252	Synthetic	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	14 31/32"	14 31/32"	4 47/64"	**492P77**
5500 lb.	13.4 fpm	15.8 fpm	12VDC	254	Galvanized Steel Cable	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	15"	15"	4 53/64"	**492P83**
	13.4 fpm	15.8 fpm	12VDC	254	Synthetic	1/4"	50 ft.	3-Stage Planetary	Yes	Yes	15"	15"	4 53/64"	**492P84**

** Pulling capacity is based on first layer of cable on the drum.*

Find more information on winch selection on page 1080.



No. 1VN79



No. 1VN80

THERN

115VAC Worm Gear Winches

Power "In" and "Out" with 15 min. of continuous "On" time at full load. Internal mechanical brake provides positive load control for lifting and lowering. Ball bearings and self-aligning bronze bearings provide smooth operation. Corrosion-resistant, cast-aluminum gearbox and drum. Single-phase motor has power cord and push-button control. Winch cable is available separately.

No. 2ZU40 features high-speed direct drive, and includes 8-ft. pendant cord. No. 1VN79 may be permanently installed in industrial settings. No. 1VN80 has handles and large wire rope storage.

1st Layer Load Cap.	Motor HP	Winch Drum Capacity ¼" Cable	Winch Drum Capacity 5/16" Cable	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
800 lb.	1.0	280 ft.	190 ft.	17½"	21"	12¾"	**2ZU40**
2000 lb.	1.3	130 ft.	90 ft.	14⅜"	8⅞"	17½"	**1VN79**
2000 lb.	1.3	280 ft.	190 ft.	16⅝"	17¾"	14½"	**1VN80**

	No. 2ZU40		No. 1VN79		No. 1VN80	
Layer	Max. Load	Line Speed	Max. Load	Line Speed	Max. Load	Line Speed
1	800 lb.	26 fpm	2000	13 fpm	2000 lb.	8 fpm
2	680 lb.	31 fpm	1700	15 fpm	1600 lb.	10 fpm
3	600 lb.	35 fpm	1500	17 fpm	1400 lb.	11 fpm
4	530 lb.	39 fpm	1300	19 fpm	1200 lb.	13 fpm
5	480 lb.	44 fpm	1200	21 fpm	1100 lb.	15 fpm



Planetary Gear
No. 6DLV4



Spur Gear
No. 13R483

WARN StrongArm

AC Electric Winches

Include power In/Out. Pulling capacity given as a reference only and does not include friction factors that will vary according to specific applications.

Note: Not recommended for outdoor use or areas where units could get wet. Should be used with a ground fault circuit interrupter.

PLANETARY GEAR

All-steel, high-speed winches have prewired remote on 6-ft. cable with cable tension plate. Includes mounting bolts.

SPUR GEAR

Dutton-Lainson StrongArm models are rugged, high-performance winches with efficient spur gear systems. Pulling capacities are based on third layer of cable rather than the first for a more realistic estimate of actual use. Precision needle bearings provide low friction and longer life. Final drive gears are heat-treated carbon steel for greater strength. Dynamic motor brake and friction brake for load holding. High-impact cover and stainless steel front plate completely enclose cable drum. Factory installed, 10-ft. remote control cord.

Pulling Capacity *	1st Layer Line Speed	No Load Line Speed	Voltage Rating	Full Load Amps	Rope Material	Included Rope Dia.	Included Rope Length	Gear Type	Clutch Release	Mechanical Brake	Winch Dim. L	Winch Dim. W	Winch Dim. H	Brand	Item No.
Planetary Gear															
1000 lb.	6.6 fpm	10.1 fpm	115VAC	6.5	Wire	3/16"	43 ft.	Differential Planetary	Yes	No	15-3/7"	6"	6¼"	Warn	**6DLV4**
3000 lb.	8.1 fpm	12.2 fpm	115/230VAC	20.9	Wire	5/16"	100 ft.	3-Stage Planetary	Yes	Yes	25¾"	8¾"	8"	Warn	**6DLV3**
Spur Gear															
1200 lb.	9.0 fpm	35.0 fpm	115VAC	8	Wire	3/16"	20 ft.	Spur	Yes	Yes	10 13/16"	8⅜"	8⅛"	StrongArm	**13R483**
2700 lb.	2.0 fpm	9.0 fpm	120VAC	8	Wire	7/32"	50 ft.	Spur	Yes	Yes	11⅜"	8 13/16"	8"	StrongArm	**13R481**
2700 lb.	3.5 fpm	18.0 fpm	115VAC	8	Wire	7/32"	25 ft.	Spur	No	Yes	11⅜"	8 1/16"	8"	StrongArm	**13R482**
2700 lb.	3.5 fpm	18.0 fpm	115VAC	8	Wire	7/32"	25 ft.	Spur	Yes	Yes	11⅜"	8 1/16"	8"	StrongArm	**33W158**

** Pulling capacity is based on first layer of cable on the drum.*



No. 3KEJ9

WARN

Hydraulic Planetary Winches

Perfect for most tow, utility, and trailer applications. Hydraulic motors and hardened steel, 2-stage planetary gear trains deliver efficient and reliable operation, plus fast line speeds. Anticlockwise drum rotation.

1st Layer Line Pull	Min. Required Flow	Max. Pressure	Winch Dim. L	Winch Dim. W	Winch Dim. H	Recommended Wire Rope Dia.	Item No.
9000 lb.	10 gpm	2200 psi	23 17/32"	8 1/16"	9 9/16"	⅜"	**3KEK2**
12,000 lb.	10 gpm	1950 psi	24 5/32"	8 1/16"	9 9/16"	7/16"	**3KEJ9**

For more information on winch selection, see page 1080.



WARN

Portable Electric Lift/Pull Winches

Portable for convenient, one-person operation. No. 6DLV1 is corded. No. 6DLV2 is cordless. Includes 2 rechargeable NiMH battery packs and rapid charger. Features forward/reverse switch and variable speed.

1st Layer Load Cap.	1st Layer Line Speed	Voltage Rating	Full Load Amps	Winch Dim. L	W	H	Item No.
1000 lb.	8.0 fpm	115VAC	7.7	20"	12½"	13¼"	**6DLV1**
1000 lb.	6.0 fpm	24VDC	24.6	16"	7¾"	10¾"	**6DLV2**

Ingersoll Rand

Air Winches

Winch-mounted throttles, except Nos. 3CPD3 and 3CPD6, are remote pendant controls. Both controls provide precise control when lifting, lowering, or pulling a load. Automatic disc brakes, except for Nos. 3CPD4, 3CPD9, and 3CPE2 are manual band brakes. Enclosed construction keeps out contaminants.

(F)NPT Inlet	Hose Size	Winch Dim. L	W	H	Winch Type	Item No.
For Use With ¼"-dia. Wire Rope						
½"	¾"	19 13/16"	10"	15"	Pulling	**3CPD4**
¾"	1"	20 9/32"	11 9/32"	10 15/16"	Lifting, Pulling	**3CPD3**
¾"	1"	20 9/32"	11 9/32"	10 15/16"	Lifting, Pulling	**3CPD6**
¾"	1"	20 9/32"	11 9/32"	13 3/16"	Lifting, Pulling	**3CPD2**
¾"	1"	20 9/32"	11 9/32"	13 3/16"	Lifting, Pulling	**3CPD5**
For Use With ½"-dia. Wire Rope						
1¼"	1½"	51 3/32"	22 1/8"	27 19/32"	Pulling	**3CPD9**
1¼"	1½"	51 23/32"	22 1/8"	27 19/32"	Lifting, Pulling	**3CPE1**
For Use With ¾"-dia. Wire Rope						
1¼"	1½"	58½"	28 1/32"	31½"	Pulling	**3CPE2**
1¼"	1½"	58½"	28 1/32"	31½"	Lifting, Pulling	**3CPE3**
For Use With 7/16"-dia. Wire Rope						
¾"	¾"	25 1/16"	13 1/16"	16 1/16"	Lifting	**403U11**
¾"	¾"	25 1/16"	13 1/16"	16 1/16"	Lifting	**403U12**

Air Winch Specifications	GEAR MOTOR No. 3CPD2 No. 3CPD3	No. 3CPD5 No. 3CPD6	No. 403U11 No. 403U12	RADIAL PISTON MOTOR No. 3CPD4	No. 3CPD9 No. 3CPE1	No. 3CPE2 No. 3CPE3
Air Consumption	141 scfm	141 scfm	170 scfm	50 scfm	350 scfm	700 scfm
Required Pressure	90 psi	90 psi	90 psi	90 psi	90 psi	90 psi
1st Layer Line Pull	878 lb.	1724 lb.	—	1200 lb.	5169 lb.	13,167 lb.
1st Layer Line Speed	131.0 fpm	66.0 fpm	31.0 fpm	37.0 fpm	79.0 fpm	38.0 fpm
2nd Layer Line Pull	811 lb.	1564 lb.	3300 lb.	1091 lb.	4710 lb.	11,910 lb.
2nd Layer Line Speed	56 fpm	29 fpm	32 fpm	40 fpm	81 fpm	42 fpm
3rd Layer Line Pull	753 lb.	1432 lb.	3300 lb.	1000 lb.	4326 lb.	10,872 lb.
3rd Layer Line Speed	61 fpm	31 fpm	32 fpm	43 fpm	89 fpm	46 fpm
4th Layer Line Pull	704 lb.	1320 lb.	3300 lb.	923 lb.	4000 lb.	10,000 lb.
4th Layer Line Speed	65 fpm	34 fpm	32 fpm	48 fpm	96 fpm	50 fpm
5th Layer Line Pull	660 lb.	—	3300 lb.	857 lb.	3720 lb.	9258 lb.
5th Layer Line Speed	69 fpm	—	32 fpm	51 fpm	103 fpm	54 fpm







ALLGEAR

Synthetic Winch Line Extension

Synthetic winch line extensions are made from 12-strand braided Dyneema®, which offers an excellent alternative to wire rope. They are designed to be strong, lightweight, and easy to splice. Reinforced eyes help provide added durability.

Size	Working Load Limit	L	Item No.
5/16"	3060 lb.	100 ft.	**20Y666**
3/8"	4160 lb.	100 ft.	**20Y667**
½"	7100 lb.	100 ft.	**20Y668**
5/8"	11,420 lb.	100 ft.	**20Y669**



For more information on winch selection, see page 1080.



Bright Carbon Steel
No. 3WUE9



Galvanized Steel Winch Cable
No. 1DLH8



Stainless Steel Winch Cable
No. 35Z854



Vehicle Recovery Strap
No. 1DKW8

LiftAll® Dayton®

Winch Cables and Winch Strap

Winch Cables—For use on manual and electric winches. Bright winch cables feature carbon steel wire construction. Winches constructed from Galvanized steel help resist corrosion in demanding applications. Stainless steel winch cables are for use in corrosive environments.

Vehicle Tow Cable—Assembled with hooks at each end for easy use. Corrosion-resistant. Includes hook-and-loop cable straps and forged hooks. Do not use for lifting. 2"W.

Vehicle Recovery Straps—Light polymer/nylon fabric eases storage and application. Cut- and abrasionproof straps are for use in all types of weather. Internal warning markers indicate when replacement is necessary.

Size	L	Color	Working Load Limit	Brand	Item No.
Bright Carbon Steel Wire Winch Cables					
3/8"	35 ft.	Natural	4800 lb.	Lift-All	**3YYC5**
	50 ft.	Natural	4800 lb.	Lift-All	**3YYE7**
	75 ft.	Natural	4800 lb.	Lift-All	**3WUG3**
	100 ft.	Natural	4800 lb.	Lift-All	**3WZG1**
	150 ft.	Natural	4800 lb.	Lift-All	**3WZJ3**
7/16"	50 ft.	Natural	6400 lb.	Lift-All	**3WUJ5**
	75 ft.	Natural	6400 lb.	Lift-All	**3WUU2**
	100 ft.	Natural	6400 lb.	Lift-All	**3WUL7**
	150 ft.	Natural	6400 lb.	Lift-All	**3WUP9**
1/2"	75 ft.	Natural	8400 lb.	Lift-All	**3WXA8**
	100 ft.	Natural	8400 lb.	Lift-All	**3WUW4**
	150 ft.	Natural	8400 lb.	Lift-All	**3WUY6**
Includes Latch Hook					
3/8"	35 ft.	Natural	3760 lb.	Lift-All	**3WYX3**
	35 ft.	Natural	4800 lb.	Lift-All	**3YYC1**
	50 ft.	Natural	3760 lb.	Lift-All	**3WYX6**
	50 ft.	Natural	4800 lb.	Lift-All	**3YYE3**
	75 ft.	Natural	4800 lb.	Lift-All	**3WUF8**
	100 ft.	Natural	3760 lb.	Lift-All	**3WYX9**
	100 ft.	Natural	4800 lb.	Lift-All	**3YYK8**
	150 ft.	Natural	3760 lb.	Lift-All	**3WYY3**
	150 ft.	Natural	4800 lb.	Lift-All	**3WZH8**
7/16"	50 ft.	Natural	6400 lb.	Lift-All	**3WUJ1**
	75 ft.	Natural	6400 lb.	Lift-All	**3WUT7**
	100 ft.	Natural	6400 lb.	Lift-All	**3WUL3**
	150 ft.	Natural	6400 lb.	Lift-All	**3WUP5**
1/2"	75 ft.	Natural	8400 lb.	Lift-All	**3WXA4**
	100 ft.	Natural	8400 lb.	Lift-All	**3WUV9**
	150 ft.	Natural	8400 lb.	Lift-All	**3WUY2**
Includes Swivel Latch Hook					
3/8"	35 ft.	Natural	3760 lb.	Lift-All	**3WYY6**
	35 ft.	Natural	4800 lb.	Lift-All	**3YYD4**
	50 ft.	Natural	3760 lb.	Lift-All	**3WYY9**
	50 ft.	Natural	4800 lb.	Lift-All	**3YYF6**
	75 ft.	Natural	4800 lb.	Lift-All	**3WUH2**
	100 ft.	Natural	3760 lb.	Lift-All	**3WYZ3**
	100 ft.	Natural	4800 lb.	Lift-All	**3WZG9**
	150 ft.	Natural	3760 lb.	Lift-All	**3WYZ6**
	150 ft.	Natural	4800 lb.	Lift-All	**3WUE9**
7/16"	50 ft.	Natural	6400 lb.	Lift-All	**3WUK4**
	75 ft.	Natural	6400 lb.	Lift-All	**3WUV1**
	100 ft.	Natural	6400 lb.	Lift-All	**3WUN6**
	150 ft.	Natural	6400 lb.	Lift-All	**3WUR8**
1/2"	75 ft.	Natural	8400 lb.	Lift-All	**3WXC3**
	100 ft.	Natural	8400 lb.	Lift-All	**3WUX3**
	150 ft.	Natural	8400 lb.	Lift-All	**3WUZ5**
Galvanized Steel Winch Cables					
Includes Ball End					
1/4"	60 ft.	Silver	2333 lb.	Dayton	**35Z858**
Includes Heavy Duty Thimble Eye, Swagged Loop, Zinc Plated Latch Hook					
1/8"	100 ft.	Zinc	400 lb.	Dayton	**1DLH6**
7/32"	75 ft.	Zinc	1120 lb.	Dayton	**1DLJ8**
3/8"	150 ft.	Zinc	2880 lb.	Dayton	**1DLH8**
Includes Thimble Eye, Swagged Loop, Zinc Plated Safety Latch Hook					
5/32"	25 ft.	Zinc	520 lb.	Dayton	**1DLJ1**
3/16"	25 ft.	Zinc	840 lb.	Dayton	**1DLJ3**
	50 ft.	Zinc	840 lb.	Dayton	**1DLJ4**
	75 ft.	Zinc	840 lb.	Dayton	**1DLJ5**
7/32"	25 ft.	Zinc	1120 lb.	Dayton	**1DLJ6**
	50 ft.	Zinc	1120 lb.	Dayton	**1DLJ7**
1/4"	25 ft.	Zinc	1400 lb.	Dayton	**1DLJ9**
	50 ft.	Zinc	1400 lb.	Dayton	**1DLK1**
5/16"	50 ft.	Zinc	1960 lb.	Dayton	**1DLK2**
	100 ft.	Zinc	1960 lb.	Dayton	**1DLH9**
3/8"	90 ft.	Zinc	2880 lb.	Dayton	**1DLH7**
Stainless Steel Winch Cables					
Includes Latch Hook					
3/16"	20 ft.	Silver	884 lb.	Dayton	**35Z854**
	45 ft.	Silver	884 lb.	Dayton	**35Z861**
1/4"	36 ft.	Silver	1236 lb.	Dayton	**35Z859**
	60 ft.	Silver	1236 lb.	Dayton	**35Z860**

Size	L	Working Lifting Limit	Brand	Item No.
Vehicle Tow Cable				
5/16"	20 ft.	1960 lb.	Dayton	**1DLK5**

L	W	Web Tensile Strength	Breaking Strength	Rated Capacity	Brand	Item No.
Vehicle Recovery Straps						
20 ft.	2"	20,000 lb.	15,900 lb.	5300 lb.	Dayton	**1DKW8**
30 ft.	2"	40,000 lb.	32,000 lb.	10,700 lb.	Dayton	**1DKW9**



No. 1DLX4



No. 1DLK4

Dayton®

Winch Line Hooks

Eye Hooks—For use with winch cable. Zinc-plated, forged steel hooks include a safety clip.

Pulley Block with Swivel Hook—For use in double-line operation. Includes safety latch. Compatible with lines up to 1/4" dia.

Description	Working Load Limit	Item No.
Eye Hook	1500 lb.	**1DLX4**
Eye Hook	3000 lb.	**1DLX5**
Pulley Block w/Swivel Hook	2400 lb.	**1DLK4**


No. 1VN82


No. 1VN86


No. 2ZU39


No. 3DNZ8

1st Layer Load Capacity	Winch Gear Ratio	Brake Included	Frame Material	Winch Drum Capacity 1/8" Cable	3/16" Cable	1/4" Cable	5/16" Cable	Overall Dimensions L	W	H	Brand	Item No.
Spur Gear												
For Lifting Applications												
1000 lb.	3.83:1	Yes	SS	240 ft.	110 ft.	59 ft.	39 ft.	8¼"	8"	6⅞"	Dayton	**36WF99**
2000 lb.	14.7:1	Yes	Steel	—	110 ft.	59 ft.	39 ft.	10¼"	8"	7¼"	Dayton	**36WG02**
2000 lb.	14.7:1	Yes	SS	—	110 ft.	59 ft.	39 ft.	10¼"	11"	7¼"	Dayton	**36WG03**
For Lifting or Pulling Applications												
1000 lb.	3.83:1	Yes	SS	240 ft.	110 ft.	59 ft.	—	8¼"	13 25/32"	13½"	Thern	**1VN83**
2000 lb.	14.7:1	Yes	Steel	—	110 ft.	59 ft.	39 ft.	10"	14½"	15 5/16"	Thern	**1VN85**
10,000 lb.	25:1	Yes	Steel	—	—	—	540 ft.	20⅜"	25"	26"	Thern	**3DNZ3**
1000 lb.	2.85:1	Yes	Steel	130 ft.	57 ft.	—	—	7 9/16"	12⅛"	13⅛"	Thern	**1VN82**
2000 lb.	14.7:1	Yes	SS	—	110 ft.	59 ft.	39 ft.	10"	14½"	15 5/16"	Thern	**1VN86**
4000 lb.	19.54:1	Yes	Steel	—	—	300 ft.	200 ft.	15¼"	22"	24 3/16"	Thern	**3DNZ7**
For Pulling Applications												
1000 lb.	3.5:1	Yes	Steel	—	55 ft.	—	—	7 5/32"	6"	5¾"	Dayton	**35Z846**
1000 lb.	2.85:1	No	Steel	130 ft.	57 ft.	—	—	7 5/16"	9"	13 3/16"	Thern	**1VN81**
1000 lb.	3.83:1	Yes	SS	—	95 ft.	—	—	8¾"	7½"	6 27/32"	Dayton	**35Z847**
2000 lb.	14.7:1	No	Steel	—	110 ft.	59 ft.	39 ft.	10"	12 1 1/16"	13 1 3/32"	Thern	**1VN84**
2000 lb.	3.83:1, 14.7:1	No	Steel	—	110 ft.	59 ft.	39 ft.	10¼"	8"	7¼"	Dayton	**36WG01**
2500 lb.	8.8:1	Yes	Steel	—	95 ft.	—	—	8¾"	7 1 1/16"	6¾"	Dayton	**35Z848**
2500 lb.	8.8:1	Yes	SS	—	95 ft.	—	—	8¾"	7½"	6 27/32"	Dayton	**35Z850**
4000 lb.	19.54:1	No	Steel	—	—	300 ft.	200 ft.	15¼"	22"	24½"	Thern	**3DNZ6**
10,000 lb.	25:1	No	Steel	—	—	—	540 ft.	20⅜"	25"	30"	Thern	**3DNZ2**
10,000 lb.	5:1, 25:1	No	Steel	—	—	—	540 ft.	20⅜"	18⅜"	18¾"	Dayton	**36WG06**
Worm Gear												
For Lifting or Pulling Applications												
1000 lb.	15:1	Yes	Steel	140 ft.	61 ft.	—	—	7½"	11 13/16"	15 19/32"	Thern	**2VKH6**
2000 lb.	32:1	Yes	Steel	—	—	77 ft.	52 ft.	13½"	15 9/16"	17 5/16"	Thern	**2ZU39**
4000 lb.	26:1	Yes	Steel	—	—	300 ft.	200 ft.	14"	21"	29 3/16"	Thern	**2VKH8**
For Pulling Applications												
1000 lb.	15:1	No	Steel	140 ft.	61 ft.	—	—	6½"	10¼"	13⅜"	Thern	**3DNZ4**
2000 lb.	32:1	Yes	Aluminum and Steel	—	—	60 ft.	—	13¼"	11 5/8"	8½"	Dayton	**35Z849**
2000 lb.	24:1	No	Steel	—	140 ft.	77 ft.	52 ft.	10"	12"	13⅜"	Thern	**3DNZ5**
2000 lb.	24:1	No	Steel	—	140 ft.	77 ft.	52 ft.	10⅜"	8"	7⅜"	Dayton	**36WF96**
4000 lb.	26:1	No	Steel	—	—	300 ft.	200 ft.	14"	19"	22⅝"	Thern	**3DNZ8**

Dayton

THERN

Industrial-Duty Hand Winches

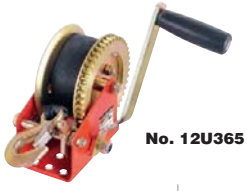
- Cable sold separately

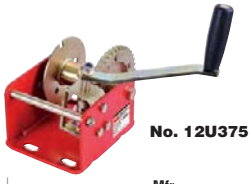
Adjustable-length handles to change the force required to lift or pull a load. Use bronze and ball bearings.

Spur Gear with Brake—Automatic Weston-style brake provides positive load control to assist with lifting and lowering.

Worm Gear—Provides load-holding capability when handle is released. Use in applications where fine adjustments may be necessary. No. 2ZU39 is designed to be operated with 400 rpm max drill drive.


No. 2Z601


No. 12U365


No. 12U375

1st Layer Load Capacity	Winch Gear Ratio	Brake Included	Frame Material	Winch Drum Capacity 1/8" Cable	3/16" Cable	1/4" Cable	5/16" Cable	Overall Dimensions L	W	H	Mfr. Model Brand	Mfr. Model	Item No.
Spur													
For Lifting Applications													
800 lb.	4.4:1	Yes	Steel	147 ft.	67 ft.	—	—	6 1/16"	6¼"	5½"	Dutton-Lainson	DLB800A	**6W045**
For Lifting or Pulling Applications													
800 lb.	3.5:1	Yes	Steel	183 ft.	72 ft.	—	—	7⅛"	6"	5¾"	Dayton	12U370	**12U370**
1200 lb.	4.3:1	Yes	Steel	183 ft.	72 ft.	36 ft.	—	7⅛"	6"	5¾"	Dayton	12U372	**12U372**
1200 lb.	5.36:1	Yes	Steel	220 ft.	72 ft.	36 ft.	24 ft.	7⅝"	6"	6⅜"	Dayton	12U371	**12U371**
3500 lb.	18.4:1	Yes	Steel	—	—	105 ft.	69 ft.	10⅛"	8¼"	8¼"	Dayton	12U373	**12U373**
1500 lb.	5.1:1	Yes	Steel	—	72 ft.	—	—	7⅛"	6"	5¾"	Dayton	12U379	**12U379**
2500 lb.	11:1	Yes	Steel	—	114 ft.	56 ft.	39 ft.	8¾"	7¾"	6¾"	Dayton	12U380	**12U380**
For Pulling Applications													
900 lb.	3.2:1	No	Steel	87 ft.	40 ft.	—	—	5⅛"	5¼"	4"	Dutton-Lainson	DL900A	**6Z001**
900 lb.	3.25:1	No	Steel	118 ft.	42 ft.	—	—	6¾"	5¾"	4⅞"	Dayton	12U358	**12U358**
1100 lb.	4.2:1	No	Steel	183 ft.	85 ft.	42 ft.	—	7⅛"	4⅝"	6⅛"	Dayton	12U359	**12U359**
1200 lb.	4.25:1	No	Steel	183 ft.	72 ft.	36 ft.	—	7⅛"	6"	5¾"	Dayton	12U376	**12U376**
1400 lb.	4.4:1	No	Steel	—	75 ft.	40 ft.	—	7 1/16"	5¾"	5 3/16"	Dutton-Lainson	DL1402A	**2Z601**
1400 lb.	5:1	No	Steel	—	85 ft.	42 ft.	—	7¼"	4⅞"	6 3/16"	Dayton	12U360	**12U360**
1800 lb.	1:1, 4.6:1, 9.7:1	No	Steel	—	85 ft.	42 ft.	30 ft.	8"	8"	6¼"	Dayton	12U378	**12U378**
1800 lb.	5.1:1, 9.78:1	No	Steel	—	123 ft.	59 ft.	40 ft.	10"	6½"	6½"	Dayton	12U361	**12U361**
1800 lb.	5.4:1, 10.3:1	No	Steel	—	130 ft.	70 ft.	47 ft.	8⅛"	6½"	6⅞"	Dutton-Lainson	DL1800A	**2Z602**
2500 lb.	5.44:1, 15.24:1	Yes	Steel	—	—	62 ft.	45 ft.	10"	7⅞"	7⅜"	Dayton	12U362	**12U362**
2500 lb.	5.4:1, 17.3:1	No	Steel	—	130 ft.	70 ft.	47 ft.	9½"	6½"	7½"	Dutton-Lainson	DL2500AB	**2Z603**
3200 lb.	5.44:1, 17.5:1	No	Steel	—	—	62 ft.	45 ft.	10"	7⅞"	7⅜"	Dayton	12U363	**12U363**
900 lb.	3.25:1	No	Steel	—	—	—	—	6¾"	5¾"	4⅞"	Dayton	12U364	**12U364**
1100 lb.	4.2:1	No	Steel	—	—	—	—	7⅛"	4⅝"	6⅛"	Dayton	12U365	**12U365**
1400 lb.	5:1	No	Steel	—	—	—	—	7¼"	4⅞"	6 3/16"	Dayton	12U366	**12U366**
1800 lb.	9.78:1	No	Steel	—	—	—	—	10"	6½"	6½"	Dayton	12U367	**12U367**
2500 lb.	15.2:1	Yes	Steel	—	—	—	—	10"	7⅞"	7⅜"	Dayton	12U368	**12U368**
3200 lb.	17.5:1	No	Steel	—	—	—	—	10"	7⅞"	7⅜"	Dayton	12U369	**12U369**
1200 lb.	5.4:1	Yes	Steel	205 ft.	93 ft.	50 ft.	—	7½"	6½"	6¾"	Dutton-Lainson	DLB1205A	**2YA27** *
Worm													
For Lifting Applications													
2000 lb.	40:1	No	Steel	—	—	59 ft.	—	7½"	6"	5 29/32"	Dutton-Lainson	WG2000HEX	**33UD44**
For Pulling Applications													
2000 lb.	40:1	No	Steel	109 ft.	82 ft.	65 ft.	—	11"	6 7/16"	6¼"	Dayton	12U375	**12U375**
3000 lb.	50:1	No	Steel	—	102 ft.	75 ft.	60 ft.	10¼"	8¼"	9 1/16"	Dayton	12U381	**12U381**
Accessories													
Ceiling Mount For Hand Winch, Pulling Capacity Single Line 4000 lb.													**12U374**
Stand For Use With Winches With Capacity 900 to 2000 lb.													**12U377**

**** Includes lever to activate no-load freewheeling.***

Dayton

Hand Winches

- Cable sold separately
- Some models include winch strap with sewn-in hook

Feature a corrosion-resistant frame, with a rubberized handle grip for added comfort. Floor- and wall-mounted options available.

Spur Without Brake—Designed for applications where it may be necessary to pull the line freely from the winch. Manual ratchet locks the load in position; winch will freewheel with the ratchet released. Not recommended for lifting applications.

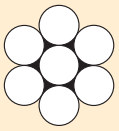
Spur With Brake—Designed for applications where freewheeling is not a requirement. Self-activating disc brake system holds load when the handle is released. Include a guard for the brake.

Worm Gear—Provides load-holding capability when handle is released. Use in applications where fine adjustments may be necessary.

Cable Selection Guide

CONSTRUCTION

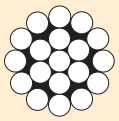
1 x 7 Strand



Attributes—Provides excellent abrasion resistance with low flexibility and low stretch.

Applications—Used as guying wire, tensioning members, and for applications with straight pulling and pushing requirements.

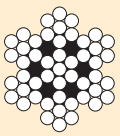
1 x 19 Strand



Attributes—Provides excellent abrasion and compression resistance with limited flexibility.

Applications—Used as guying wire and as tensioning members with pulling and pushing requirements.

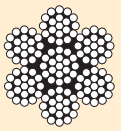
7 x 7 Strand



Attributes—Provides excellent abrasion resistance with good flexibility. Best for strength and flexibility.

Applications—Can be used over small-diameter pulleys and also used as control cable for equipment.

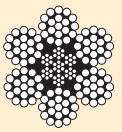
7 x 19 Strand



Attributes—Excellent flexibility, strength, and greatest amount of stretch. Resistant to crushing.

Applications—Can be used over small-diameter pulleys and also used as control cable for equipment.

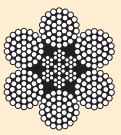
6 x 19 Class IWRC



Attributes—Provides abrasion and crush resistance with excellent flexibility.

Applications—Logging ropes, choker rope, rotary drilling, and cable track lines.

6 x 37 Class IWRC



Attributes—High strength, extremely flexible, and excellent fatigue resistance with super flexibility. Lower abrasion resistance.

Applications—Winch lines, cranes, and towing.

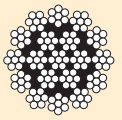
6 x 42 Fiber Core



Attributes—Balanced combination of abrasion and fatigue resistance for machinery operation.

Applications—Winch lines, cranes, and towing.

19 x 7 Strand Core



Attributes—Provides rotation resistance with superior flexibility. Susceptible to crushing and kinking. Extra care must be exercised when using cable.

Applications—Lifting and pulling applications.

MATERIAL TYPES

Galvanized

Galvanized steel provides some corrosion resistance and is an economical alternative to stainless steel.

302/304 Stainless Steel

Good corrosion resistance and more economical than 316 stainless.

Fiber Core

Provides support while remaining flexible. More susceptible to crushing.

Nylon-Jacketed

Provides high flexibility and abrasion resistance. Typically used for drive cables and physical fitness equipment.

Vinyl-Jacketed

General purpose PVC provides high flexibility and superior appearance. Typically used as barriers and lanyards.

Polypropylene-Jacketed

Polypropylene impregnated and coated galvanized steel.

Construction Material	Type	Cable Size	Coated Size
Galvanized	1 x 7 Strand Core	1/32"	—
		3/64"	—
Galvanized	1 x 19 Strand Core	1/16"	—
		3/32"	—
		1/8"	—
		5/32"	—
		1/4"	—
Galvanized	7 x 7 Strand Core	3/16"	—
		1/4"	—
Galvanized	7 x 19 Strand Core	1/4"	—
		5/16"	—
		3/8"	—
304 Stainless	1 x 19 Strand Core	1/4"	—
		1/8"	—
		1/16"	—
		3/8"	—
		3/16"	—
		5/16"	—
304 Stainless	6 x 19 Class IWRC	7/16"	—
		1/2"	—
304 Stainless	6 x 37 Class IWRC	3/16"	—
		1/4"	—
		5/16"	—
		3/8"	—

Construction Material	Type	Cable Size	Coated Size
304 Stainless	6 x 42 Fiber Core	1/8"	—
		3/16"	—
		1/4"	—
		5/16"	—
		3/8"	—
304 Stainless	7 x 7 Strand Core	1/4"	—
304 Stainless	7 x 19 Strand Core	1/16"	—
		1/8"	—
		3/16"	—
		7/32"	—
304 Stainless	19 x 7 Strand Core	1/4"	—
		3/8"	—
		7/16"	—
Nylon-Coated Galvanized Construction Material	7 x 19 Strand Core	3/16"	1/4"
		3/16"	5/16"
		1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
Galvanized Clear Vinyl Jacketed	7 x 19 Strand Core	1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
302/304 Stainless Steel Clear Vinyl Jacketed	7 x 19 Strand Core	3/16"	1/4"
		3/16"	5/16"
		1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
Polypropylene-Impregnated & Coated Galvanized	7 x 7 Strand Core	1/4"	—

Dayton®

Coated and Uncoated Steel Cable

- Do not exceed working load limit
- Precut cable includes permanent thimble eye on one end; safety-fused on the opposite end
- See Grainger.com® for domestic steel cable offering

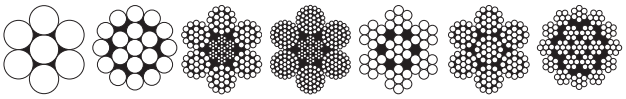
For use with manual or electric winches. Galvanized steel cable with safety orange vinyl coating provides high visibility for hazardous areas.



Cable Spool



Precut Cable Length



1 x 7 | 1 x 19 | 6 x 19 Class IWRC | 6 x 37 Class IWRC | 7 x 7 | 7 x 19 | 19 x 7

Cable Size	Outside Dia.	Working Load Limit	Strand Type	25 FT. LENGTH Item No.	50 FT. LENGTH Item No.	100 FT. LENGTH Item No.	250 FT. LENGTH Item No.	500 FT. LENGTH Item No.
Nylon Coated								
Galvanized Steel								
3/64"	1/16"	54 lb.	7 x 7	33RG27	—	—	2VJF1	—
1/16"	3/32"	96 lb.	7 x 7	—	—	2VJF3	2VJF4	2VJF5
	1/8"	96 lb.	7 x 7	—	—	—	—	2VJF8
3/32"	1/8"	184 lb.	7 x 7	—	—	—	2VJG1	2VJG2
	3/16"	184 lb.	7 x 7	—	—	—	—	2VJG8
1/8"	3/16"	400 lb.	7 x 19	33RG13	—	2VJG9	2VJH1	2VJH2
	7/32"	400 lb.	7 x 19	—	—	—	2VJH4	2VJH5
3/16"	1/4"	840 lb.	7 x 19	—	—	2VJH6	2VJH7	2VJH8
	5/16"	840 lb.	7 x 19	—	—	—	—	2VJJ2
1/4"	5/16"	1400 lb.	7 x 19	—	—	—	2VJJ4	2VJJ5
5/16"	13/32"	1960 lb.	7 x 19	—	—	—	2VJJ7	—
Polypropylene Coated								
Galvanized Steel								
1/8"	5/32"	340 lb.	7 x 7	—	—	2VJW8	2VJW9	—
3/16"	1/4"	740 lb.	7 x 7	—	2VJX1	2VJX2	2VJX3	—
1/4"	5/16"	1220 lb.	7 x 7	33RG33	2VJX4	2VJX5	2VJX6	—
Polypropylene Coated, Yellow								
Galvanized Steel								
1/8"	5/32"	340 lb.	7 x 7	—	—	2VJX8	2VJX9	—
Polypropylene Coated, Green								
Galvanized Steel								
1/8"	5/32"	340 lb.	7 x 7	—	—	2VJY2	—	33RG06
Vinyl Coated, Clear								
302/304 Stainless Steel								
3/64"	1/16"	54 lb.	7 x 7	33RF74	33RF75	2VJP6	2VJP7	2VJP8
1/16"	3/32"	96 lb.	7 x 7	33RF56	33RF58	2VJP9	2VJR1	2VJR2
	1/8"	96 lb.	7 x 7	33RF57	33RF59	2VJR3	2VJR4	2VJR5
3/32"	1/8"	184 lb.	7 x 7	33RF70	33RF72	2VJR6	2VJR7	2VJR8
	3/16"	184 lb.	7 x 7	—	—	2VJR9	2VJT1	2VJT2
1/8"	3/16"	352 lb.	7 x 19	33RF63	33RF65	2VJT3	2VJT4	2VJT5
	7/32"	352 lb.	7 x 19	33RF62	33RF64	2VJT6	2VJT7	2VJT8
3/16"	1/4"	740 lb.	7 x 19	2VJT9	2VJU1	2VJU2	33RF67	33RF69
	5/16"	740 lb.	7 x 19	—	—	2VJU5	33RF66	—
1/4"	5/16"	1280 lb.	7 x 19	2VJU6	2VJU7	2VJU8	33RF60	33RF61
5/16"	13/32"	1800 lb.	7 x 19	2VJU9	—	—	33RF78	—
Galvanized Steel								
3/64"	1/16"	54 lb.	7 x 7	33RF97	33RF98	33RF96	2VJK3	33RF99
1/16"	3/32"	96 lb.	7 x 7	—	2VJK4	2VJK5	2VJK6	33RF82
	1/8"	96 lb.	7 x 7	33RF81	—	2VJK8	2VJK9	33RF83
3/32"	1/8"	184 lb.	7 x 7	—	2VJL1	2VJL2	2VJL3	33RF95
	5/32"	184 lb.	7 x 7	—	—	—	2VJL6	33RF94
	7/32"	200 lb.	7 x 19	—	2VJL9	—	—	—
1/8"	3/16"	340 lb.	7 x 7	33RF86	2VJL7	2VJL8	1DLA7	33RF87
3/16"	1/4"	840 lb.	7 x 19	—	—	—	1DLA9	—
	5/16"	840 lb.	7 x 19	—	—	—	33RF88	33RF89
1/4"	5/16"	1400 lb.	7 x 19	—	2VJN7	2VJN8	33RF84	33RF85
5/16"	13/32"	1960 lb.	7 x 19	—	—	2VJP2	33RG03	—
3/8"	15/32"	2880 lb.	7 x 19	2VJP3	2VJP4	2VJP5	—	—
Vinyl Coated, Safety Orange								
Galvanized Steel								
1/16"	1/8"	96 lb.	7 x 7	—	2VJV6	2VJV7	2VJV8	33RG44
3/32"	3/16"	184 lb.	7 x 7	—	—	2VJW1	2VJW2	33RG48
1/8"	1/4"	340 lb.	7 x 7	—	1DLB2	2VJW3	1DLB1	33RG50
3/16"	1/4"	740 lb.	7 x 7	—	2VJW5	2VJW6	33RG45	33RG46
Clear Vinyl Coated Pre-Cut Lengths								
Galvanized Steel								
1/8"	3/16"	340 lb.	7 x 7	—	—	1DLB8	—	—
3/16"	1/4"	840 lb.	7 x 19	—	1DLC1	—	—	—
1/4"	5/16"	1400 lb.	7 x 19	—	1DLB9	—	—	—
Uncoated								
304 Stainless Steel								
1/32"	1/32"	30 lb.	1 x 19	2TAK5	—	2TAK7	33RG74	33RG75
	1/32"	28 lb.	7 x 7	—	—	2TAY1	33RG76	33RG77
1/16"	1/16"	96 lb.	7 x 19	2TAY8	2TAY9	2TAZ1	33RG67	33RG68
	1/16"	100 lb.	1 x 19	33RG63	33RG64	2TAL5	2TAL6	2TAL7
	1/16"	96 lb.	7 x 7	33RG69	33RG71	—	33RG70	1DLC3
	1/16"	100 lb.	1 x 7	—	33RG66	2TAK2	2TAK3	2TAK4
3/32"	3/32"	184 lb.	7 x 7	—	33RH06	—	33RH05	1DLC4
1/8"	1/8"	300 lb.	19 x 7	2VJD3	—	2VJD5	33RG91	—
	1/8"	420 lb.	1 x 7	33RG89	33RG90	—	—	2TAK1
	1/8"	140 lb.	6 x 42 Fiber Core	—	2TAV3	—	—	—
	1/8"	352 lb.	7 x 19	—	2TAZ3	2TAZ4	33RG93	33RG94
	1/8"	420 lb.	1 x 19	—	—	2TAL2	2TAL3	2TAL4
	1/8"	340 lb.	7 x 7	—	—	—	—	1DLC5
3/16"	3/16"	940 lb.	1 x 19	2TAN2	2TAN3	2TAN4	—	—
	3/16"	740 lb.	7 x 19	2TAZ5	2TAZ6	—	1DLC6	—
	3/16"	660 lb.	19 x 7	—	2VJD7	2VJD8	33RG97	—
	3/16"	600 lb.	6 x 37 Class IWRC	—	—	2TAT7	—	—
	3/16"	320 lb.	6 x 42 Fiber Core	—	—	2TAV7	—	—
7/32"	7/32"	1000 lb.	7 x 19	—	2TAZ8	2TAZ9	—	—
1/4"	1/4"	1640 lb.	1 x 19	2TAK8	2TAK9	2TAL1	33RG78	33RG79
	1/4"	900 lb.	6 x 37 Class IWRC	2TAT8	2TAT9	2TAU1	33RG82	33RG83
	1/4"	1280 lb.	7 x 19	33RG84	—	—	1DLC7	—
	1/4"	1220 lb.	7 x 7	—	2TAY6	2TAY7	33RG87	—
	1/4"	1152 lb.	19 x 7	—	2VJE1	2VJE2	—	—
5/16"	5/16"	2500 lb.	1 x 19	2TAN5	2TAN6	2TAN7	33RH17	—
	5/16"	1660 lb.	6 x 37 Class IWRC	—	2TAU3	2TAU4	—	—
	5/16"	980 lb.	6 x 42 Fiber Core	—	—	2TAW4	—	—
	5/16"	1800 lb.	7 x 19	—	—	—	33RH22	—
3/8"	3/8"	3500 lb.	1 x 19	2TAL8	—	2TAN1	—	—
	3/8"	1320 lb.	6 x 42 Fiber Core	2TAW5	—	—	—	—
	3/8"	2340 lb.	6 x 37 Class IWRC	—	2TAU6	2TAU7	33RH11	—
	3/8"	2400 lb.	7 x 19	—	33RH15	—	—	—
	3/8"	2160 lb.	19 x 7	—	—	2VJE5	33RH09	—
7/16"	7/16"	3260 lb.	6 x 19 Class IWRC	—	—	2TAT1	—	—
1/2"	1/2"	4560 lb.	6 x 19 Class IWRC	2TAT2	2TAT3	2TAT4	33RG72	33RG73
Galvanized Steel								
1/32"	1/32"	37 lb.	1 x 7	—	—	—	—	2RZX6
3/64"	3/64"	75 lb.	1 x 7	—	—	—	—	2RZX9
1/16"	1/16"	96 lb.	7 x 7	—	—	2TAA1	2TAA2	1DLA1
	1/16"	100 lb.	1 x 19	—	—	2RZY1	2RZY2	2RZY3
3/32"	3/32"	200 lb.	7 x 19	—	—	2TAC8	—	—
	3/32"	240 lb.	1 x 19	—	—	2RZY4	2RZY5	2RZY6
	3/32"	184 lb.	7 x 7	—	—	—	2TAA4	2TAA5
1/8"	1/8"	400 lb.	7 x 19	—	33RH48	2TAE2	2TAE3	2TAE4
	1/8"	420 lb.	1 x 19	—	33RH46	2RZY7	2RZY8	2RZY9
	1/8"	340 lb.	7 x 7	—	—	2TAA6	2TAA7	1DLA2
5/32"	5/32"	560 lb.	7 x 19	—	33RH71	2TAE5	2TAE6	—
	5/32"	520 lb.	7 x 7	—	33RH73	—	2TAA9	—
	5/32"	660 lb.	1 x 19	—	—	—	2RZZ2	—
3/16"	3/16"	940 lb.	1 x 19	—	33RH50	2RZZ4	2RZZ5	2RZZ6
	3/16"	840 lb.	7 x 19	—	33RH52	2TAE8	1DLA3	2TAE9
	3/16"	740 lb.	7 x 7	—	—	2TAC2	2TAC3	2TAC4
1/4"	1/4"	1400 lb.	7 x 19	—	33RH42	2TAF1	1DLA4	2TAF2
	1/4"	1220 lb.	7 x 7	—	—	2TAC5	2TAC6	2TAC7
	1/4"	1640 lb.	1 x 19	—	—	2RZZ7	2RZZ8	2RZZ9
5/16"	5/16"	1960 lb.	7 x 19	—	33RH67	2TAF3	33RH66	2TAF4
3/8"	3/8"	2880 lb.	7 x 19	—	33RH64	2TAF5	2TAF6	2TAF7
Uncoated Pre-Cut Lengths								
304 Stainless Steel								
3/32"	3/32"	184 lb.	7 x 7	—	—	1DLD2	—	—
1/8"	1/8"	340 lb.	7 x 7	—	—	1DLD3	—	—
3/16"	3/16"	740 lb.	7 x 19	—	—	1DLD4	—	—
1/4"	1/4"	1280 lb.	7 x 19	—	—	1DLD5	—	—
5/16"	5/16"	1800 lb.	7 x 19	—	—	1DLD6	—	—
Galvanized Steel								
1/8"	1/8"	340 lb.	7 x 7	—	—	1DLB3	—	—
3/16"	3/16"	840 lb.	7 x 19	—	—	1DLB4	—	—
1/4"	1/4"	1400 lb.	7 x 19	—	—	1DLB5	—	—
5/16"	5/16"	1960 lb.	7 x 19	—	—	1DLB6	—	—
3/8"	3/8"	2880 lb.	7 x 19	—	—	1DLB7	—	—


No. 2VKH9

Dayton

Wire Rope Clips

- Sizes ⅛" to ⅞" will develop 80% of cable breakage strength
- 1" size will develop 90% of cable breakage strength

Secure end of wire rope when turning back to form a loop. Galvanized finish.

For Wire Rope Dia.	Rope Turn Back	DAYTON MALEABLE IRON Min. No. of Clips	DAYTON MALEABLE IRON Item No.	DAYTON FORGED STEEL Min. No. of Clips	DAYTON FORGED STEEL Item No.	CROSBY® FORGED STEEL Min. No. of Clips	CROSBY® FORGED STEEL Item No.	DAYTON 304 STAINLESS STEEL Min. No. of Clips	DAYTON 304 STAINLESS STEEL Item No.
⅛"	3¼"	3	2VKH9	2	4DV33	2	29WP16	3	2VKG6
3⁄16"	3¾"	3	2VKJ1	2	4DV34	2	29WP17	3	2VKH1
¼"	4¾"	—	—	2	4DV35	2	29WP18	3	2VKH3
5⁄16"	5¼"	3	2VKJ3	2	4DV36	2	29WP19	3	2VKH5
⅜"	6½"	3	2VKJ4	2	4DV37	2	29WP20	3	2VKH7
7⁄16"	7"	3	2VKJ5	2	4DV38	—	—	—	—
7⁄16" to ½"	11½"	—	—	—	—	3	29WP22	—	—
½"	11½"	4	2VKJ6	3	4DV39	—	—	—	—
9⁄16"	12"	—	—	3	4DV40	—	—	—	—
9⁄16" to ⅝"	12"	—	—	—	—	3	29WP24	—	—
⅝"	12"	4	2VKJ8	3	4DV41	—	—	—	—
¾"	18"	5	2VKJ9	4	4DV42	4	29WP25	—	—
⅞"	20"	5	2VKK1	4	4DV43	4	29WP26	—	—
1"	26"	6	2VKK2	5	4DV44	5	29WP27	—	—
1⅛"	34"	—	—	—	—	6	29WP28	—	—
1¼"	44"	—	—	—	—	7	29WP29	—	—
1⅜"	44"	—	—	—	—	7	29WP30	—	—
1½"	54"	—	—	—	—	8	29WP31	—	—


No. 1DKK4

Dayton

Clip and Thimble Sets

Each set includes 1 thimble and 2 U-bolt type wire rope clips, except No. 2VKK6 which includes 1 thimble and 3 U-bolt-type clips.

For Wire Rope Dia.	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
⅛"	1DKK4	1DKK9
3⁄16"	1DKK5	1DKL1
¼"	—	1DKL2
5⁄16"	—	1DKL3
⅜"	1DKK8	1DKL4
7⁄16"	2VKK3	—
½"	2VKK4	2VKK6


No. 4FRY5

RONSTAN

316 Stainless Steel Wire Rope Clip and Thimble Sets

Each set includes 1 thimble and the appropriate number of U-bolt type clips. Made with 316 stainless steel.

For Wire Rope Dia.	Min. No. of Clips	Item No.
5⁄64" to 3⁄32"	2	4FRY5
⅛"	2	4FRY6
5⁄32"	2	4FRY7
3⁄16"	2	4FRY8
¼"	2	4FRY9
5⁄16"	3	4FRZ1
⅜"	3	4FRZ2
½"	3	4FRZ3
⅝"	3	4FRZ4
¾"	4	4FRZ5


No. 29WP32

Crosby® Fist Grip Clips

Double saddle allows for quick installation. Steel construction with galvanized finish. Include heavy hex nuts. Meet FF-C-450 Standards.

For Wire Rope Dia.	Min. No. of Clips	Rope Turn Back	Min. Torque	Item No.
3⁄16" to ¼"	2	4"	30 ft.-lb.	29WP32
5⁄16"	2	5"	30 ft.-lb	29WP33
⅜"	2	5¼"	45 ft.-lb.	29WP34
7⁄16" to ½"	3	11"	65 ft.-lb.	29WP35
9⁄16" to ⅝"	3	13½"	130 ft.-lb.	29WP36
¾"	3	16"	225 ft.-lb.	29WP37
⅞"	4	26"	225 ft.-lb.	29WP38
1"	5	37"	225 ft.-lb.	29WP39
1⅛"	5	41"	360 ft.-lb.	29WP40
1¼"	6	55"	360 ft.-lb.	29WP41


No. 1DLG1

Dayton

Wire Rope Thimbles

Thimbles extend usable life of cable by protecting against everyday wear. Compatible with sleeves or wire rope clips.

For Wire Rope Dia.	DAYTON ZINC-PLATED Item No.	DAYTON ZINC-PLATED Pkg. Qty.	DAYTON GALVANIZED Item No.	DAYTON GALVANIZED Pkg. Qty.	CROSBY GALVANIZED Item No.	CROSBY GALVANIZED Pkg. Qty.	DAYTON STAINLESS STEEL Item No.	DAYTON STAINLESS STEEL Pkg. Qty.
1⁄16"	—	—	—	—	—	—	1DLG6	25
⅛"	1DLG1	25	2VKK7	25	48FR63	1	1DLG8	25
3⁄16"	1DLG2	25	2VKK8	25	48FR64	1	1DLG9	25
¼"	1DLG3	25	2VKL1	25	48FR68	1	1DLH1	25
5⁄16"	1DLG4	25	2VKL2	25	48FR69	1	1DLH2	25
⅜"	1DLG5	25	2VKL3	25	48FR66	1	1DLH3	25
7⁄16"	—	—	2VKL4	25	—	—	—	—
½"	—	—	2VKL5	25	—	—	—	—
⅝"	—	—	—	—	48FR67	1	—	—


No. 1DKJ3

Dayton

Sleeve and Thimble Sets

Allow 100% cable strength. Use with cable swaging tools, sold separately.

Galvanized Steel—Include 2 zinc-plated thimbles and 2 aluminum alloy sleeves.

Stainless Steel—Include 2 stainless steel thimbles and 2 tin-plated copper sleeves.

For Wire Rope Dia.	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
1⁄16"	—	1DKJ6
⅛"	1DKJ3	1DKJ8
3⁄16"	1DKJ4	1DKJ9
¼"	1DKJ5	1DKK1
5⁄16"	—	1DKK2
⅜"	—	1DKK3



Crosby® Steel Tapered Sleeves

Standard steel sleeve terminations have an efficiency rating of 96% with IWRC or 93% with FC based on strength of wire rope. These sleeves are used for wire rope constructions: 6 x 19, 6 x 37, RRL, FC, and IWRC.

For Wire Rope Dia.	Steel Item No.
⅜"	48FR72
½"	48FR73
⅝"	48FR74
1¼"	48FR75

Dayton

Loos & Co. CABLEWARE® DIVISION

Wire Rope Sleeves


No. 1DLE3


No. 16X825


No. 2VKD3

Generate professional-quality loops with a clean look. When used appropriately and swaged accurately, sleeves allow 100% cable strength. Tin-plated copper sleeves are designed for use with stainless steel cable. Stainless steel oval sleeves provide maximum corrosion resistance.

For Wire Rope Dia.	For Use With	Finish	Brand	WIRE ROPE SLEEVE Item No.	WIRE ROPE SLEEVE Pkg. Qty.	WIRE ROPE STOP SLEEVE Item No.	WIRE ROPE STOP SLEEVE Pkg. Qty.
304 Stainless Steel							
1/32"	Stainless Steel Cable	Natural	Loos	**16X825**	1	—	—
3/64"	Stainless Steel Cable	Natural	Loos	**16X826**	1	—	—
1/16"	Stainless Steel Cable	Natural	Loos	**16X827**	1	—	—
3/32"	Stainless Steel Cable	Natural	Loos	**16X828**	1	—	—
1/8"	Stainless Steel Cable	Natural	Loos	**16X829**	1	—	—
5/32"	Stainless Steel Cable	Natural	Loos	**16X830**	1	—	—
3/16"	Stainless Steel Cable	Natural	Loos	**16X831**	1	—	—
1/4"	Stainless Steel Cable	Natural	Loos	**16X833**	1	—	—
5/16"	Stainless Steel Cable	Natural	Loos	**16X834**	1	—	—
Aluminum Alloy							
1/16"	1DMU9, 1DMV2	Natural	Dayton	**1DLD7**	25	**2VKC5**	50
3/32"	1DMU9, 1DMV2	Natural	Dayton	**2VJZ1**	25	**2VKC6**	50
1/8"	1DMU9, 1DMV1, 1DMV2	Natural	Dayton	**1DLD8**	25	**2VKC7**	50
5/32"	1DMV1, 1DMV2, 1DMV4	Natural	Dayton	**2VJZ2**	25	**2VKC8**	50
3/16"	1DMV1, 1DMV2	Natural	Dayton	**1DLD9**	25	**2VKC9**	50
1/4"	1DMV1, 1DMV4	Natural	Dayton	**1DLE1**	25	**2VKD1**	10
5/16"	1DMV4	Natural	Dayton	**1DLE2**	25	**2VKD2**	10
3/8"	1DMV3	Natural	Dayton	**1DLE3**	25	—	—
1/2"	—	Natural	Dayton	**2VJZ3**	10	—	—
Copper							
1/32"	—	Zinc Plated	Dayton	**2VKA2**	25	**2VKE5**	50
1/32"	—	Natural	Dayton	—	—	**2VKD3**	50
3/64"	—	Tin Plated	Dayton	**2VJZ8**	25	—	—
3/64"	—	Zinc Plated	Dayton	**2VKA3**	25	**2VKE6**	50
3/64"	—	Natural	Dayton	—	—	**2VKD4**	50
1/16"	1DMU9, 1DMV2	Tin Plated	Dayton	**1DLF2**	25	—	—
1/16"	1DMU9, 1DMV2	Zinc Plated	Dayton	**2VKA4**	25	**2VKE7**	50
1/16"	1DMU9, 1DMV2	Natural	Dayton	**1DLE4**	25	**2VKD5**	50
3/32"	1DMU9, 1DMV2	Zinc Plated	Dayton	**2VKA5**	25	**2VKE8**	50
3/32"	1DMV2	Tin Plated	Dayton	**1DLF3**	25	—	—
3/32"	1DMU9, 1DMV2	Natural	Dayton	**1DLE5**	25	**2VKD6**	50
1/8"	1DMU9, 1DMV1, 1DMV2	Tin Plated	Dayton	**1DLF4**	25	—	—
1/8"	1DMV1, 1DMV2	Zinc Plated	Dayton	**2VKA6**	25	**2VKE9**	50
1/8"	1DMU9, 1DMV1, 1DMV2	Natural	Dayton	**1DLE6**	25	—	—
1/8"	1DUM9, 1DMV1, 1DMV2	Natural	Dayton	—	—	**2VKD7**	50
5/32"	1DMV1, 1DMV2, 1DMV4	Zinc Plated	Dayton	**2VKA7**	25	**2VKF1**	50
5/32"	1DMV1, 1DMV2, 1DMV4	Tin Plated	Dayton	**2VJZ9**	25	—	—
3/16"	1DMV1, 1DMV2	Zinc Plated	Dayton	—	—	**2VKF3**	50
3/16"	1DMV1, 1DMV2	Tin Plated	Dayton	**1DLF5**	25	—	—
3/16"	1DMV1, 1DMV2	Natural	Dayton	**1DLE7**	25	—	—
7/32"	—	Tin Plated	Dayton	**2VKA1**	25	—	—
7/32"	—	Zinc Plated	Dayton	**2VKA9**	25	**2VKF5**	10
7/32"	—	Natural	Dayton	**2VJZ6**	25	**2VKE1**	10
1/4"	1DMV1	Tin Plated	Dayton	**1DLF6**	25	—	—
1/4"	1DMV1, 1DMV4	Zinc Plated	Dayton	**2VKC1**	25	—	—
1/4"	1DMV1, 1DMV4	Natural	Dayton	**1DLE8**	25	—	—
5/16"	1DMV4	Tin Plated	Dayton	**1DLF7**	25	—	—
5/16"	1DMV4	Natural	Dayton	**1DLE9**	25	**2VKE3**	10
5/16"	1DMV4	Zinc Plated	Dayton	**2VKC2**	25	**2VKF9**	10
3/8"	1DMV3	Tin Plated	Dayton	**1DLF8**	25	—	—
3/8"	1DMV3	Zinc Plated	Dayton	**2VKC3**	25	—	—
3/8"	1DMV3	Natural	Dayton	**1DLF1**	25	—	—

For Wire Rope Dia.	For Use With	Brand	WIRE ROPE CYLINDRICAL TERMINAL Item No.	WIRE ROPE CYLINDRICAL TERMINAL Pkg. Qty.
303 SE / 304				
1/8"	MIL-DTL-83420 Cable	Loos	**16X636**	1

Crosby® Terminator™ Wedge Sockets


No. 29WR30

- Meet ASME B30.26 requirements

Sockets secure the tail of the wire rope to the wedge to eliminate wedge loss and the need for an extra piece of wire rope. Also eliminate potential breaking off of the tail from fatigue. Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.

For Wire Rope Dia.	Item No.
3/8"	**29WR30**
1/2"	**29WR31**
5/8"	**29WR32**
3/4"	**29WR33**
7/8"	**29WR34**
1"	**29WR35**
1 1/8"	**29WR36**
1 1/4"	**29WR37**


No. 12R355

GA GRAINGER APPROVED

Loos & Co. CABLEWARE® DIVISION


No. 12R375

Swaging Tools

- For oval- and stop-sleeve swaging
- Heat-treated steel jaw
- Used for making loops and splicing cable
- Easily provide accurate cutting and crimping

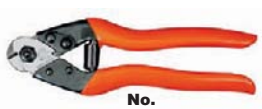
Hand Swaging Tools—Single-compression die, except No. 12R355 is multi-compression. Nos. 12R359 and 12R360 are scissor-action type. No. 12R375 is a hydraulic compression tool; includes interchangeable dies and packaged in a plastic carrying case. Include test gauge.

Bench Swaging Tool—For shop location and permanent workstations. Fully adjustable. Multicompression jaws. For copper and aluminum only. Includes test gauge.

Hand Swager/Cutter—Designed for use with cable up to 3/16" thick. Hardened steel jaws allow tool to taper as it cuts, leaving evenly cut ends.

Hand Swaging Kits—Kit Nos. 12R364 and 12R365 include Hand Swaging Tool No. 12R355, cable cutter, and an assortment of sleeves, thimbles, and stops. Packaged in a steel tool box. No. 12R364 has aluminum sleeves and zinc-plated steel thimbles; No. 12R365 has copper sleeves and stainless steel thimbles. Kit No. 12R376 includes Hand Swaging Tool No. 12R375 and 6 sets of dies and gauges. Packaged in a plastic case.

For Cable Size (in.)	Handle Length (in.)	Brand	Item No.
Single-Groove Hand Swaging Tool			
3/8	26	GA	**1DMV3**
Multigroove Hand Swaging Tool			
5/32, 1/4, 5/16	30	GA	**1DMV4**
Hand Swagger/Cutter			
1/16, 3/32, 1/8, 5/32, 3/16	19	GA	**1DMV2**
Clamping Bolt Type			
1/16, 3/32, 1/8	—	GA	**1DMU9**
1/8, 5/32, 3/16, 1/4	—	GA	**1DMV1**
Hand Swaging Tools			
1/16, 3/32, 1/8, 5/32, 3/16	22 1/2	Loos	**12R355**
1/16 Aluminum and Copper, 3/32 Stainless Steel	17	Loos	**12R357**
3/32 Aluminum and Copper, 1/8 Stainless Steel	17	Loos	**12R358**
1/8 Aluminum and Copper Sleeves, 5/32, 3/16, 7/32 Stop Sleeves and 5/32 Stainless Steel	17	Loos	**12R359**
3/16 Aluminum and Copper, 7/32 Stainless Steel	17	Loos	**12R360**
1/4 Aluminum and Copper Sleeves, 1/4, 9/32, 5/16, 3/8 Stop Sleeves	25	Loos	**12R361**
5/16 Aluminum and Copper	25	Loos	**12R362**
1/32, 3/64, 1/16 Aluminum and Copper	7	Loos	**12R363**
1/4, 9/32, 5/16, 3/8, 7/16, 1/2	18	Loos	**12R375**
Hand Swaging Kits			
1/16, 3/32, 1/8, 5/32, 3/16	22 1/2	Loos	**12R364**
1/16, 3/32, 1/8, 5/32, 3/16	22 1/2	Loos	**12R365**
1/4, 9/32, 5/16, 3/8, 7/16, 1/2	18	Loos	**12R376**
Bench Swaging Tool			
1/16, 3/32, 1/8, 5/32, 3/16	22 1/2	Loos	**12R356**


No. 12R371


No. 12R372

FELCO® SWISS MADE


No. 12R373

Cable Cutters

Unique triangular cutting blades eliminate fraying and crushing of cable ends. Blades are constructed of hardened and tempered steel.

Cutting Cap./Material	Overall Length	Item No.
Plastic-Coated Handle		
Up to 3mm High Tensile Wire	7 1/2"	**12R370**
Up to 9/32" SS	7 1/2"	**12R371**
Forged Aluminum Handle		
Up to 1/4" SS	13"	**12R372**
Up to 3/8" SS	19"	**12R373**
Up to 5/8" SS	23"	**12R374**



Flat-Mount Pulley Block



Swivel Eye Pulley Block



Swivel Hook with Latch Pulley Block



Plain Snatch Block

GA GRAINGER APPROVED

Wire Rope Blocks and Sheaves

Forged fittings with zinc finish are weather-resistant and riveted to the all-steel sheaves. Suitable for use with heavy-duty wire rope and aircraft cable in high-load and medium-speed applications. Bronze bearings are self-lubricating.

Warning: Do not exceed recommended work load limit of cable/block.

Attachment Type	Max. Cable Size	Working Load Limit	Sheave Outside Dia.	Sheave Inside Dia.	Eye Hook Inside Dia.	Item No.
Pulley Blocks						
Epoxy	¾"	6000 lb.	6"	1 1/32"	1 11/32"	**5RRT1**
Fixed Eye, Zinc Plated	3/16"	525 lb.	1½"	—	—	**5RRW2**
	3/16"	600 lb.	2"	—	—	**5RRW3**
	¼"	685 lb.	2½"	—	—	**5RRW4**
Flat Mount, Galvanized	⅜"	1100 lb.	4½"	5/16"	—	**5ULL8**
Flat Mount, Zinc Plated	3/16"	525 lb.	1½"	—	—	**5RRX2**
	3/16"	600 lb.	2"	—	—	**5RRX3**
	3/16"	600 lb.	2"	½"	None	**493R64**
	¼"	685 lb.	2½"	½"	None	**493R68**
	¼"	800 lb.	3"	½"	None	**493R65**
Side Mount, Galvanized	7/16"	1210 lb.	4"	—	—	**5ULN1**
Swivel Eye, Epoxy	¾"	6000 lb.	6"	1 1/32"	2"	**5RRR7**
Swivel Eye, Zinc Plated	3/16"	600 lb.	2"	½"	None	**493R63**
	¼"	685 lb.	2½"	—	⅞"	**5RRV9**
	¼"	800 lb.	3"	—	⅞"	**5RRW0**
	5/16"	1550 lb.	3½"	—	—	**5RRW1**
	5/16"	1550 lb.	3½"	¾"	None	**493R66**
Swivel Hook, Zinc Plated	3/16"	525 lb.	1-1/12"	—	—	**5RRW7**
	¼"	800 lb.	3"	—	—	**5RRX0**
	5/16"	1550 lb.	3½"	—	15/16"	**5RRX1**
Swivel Shackle, Powder Coated	½"	8000 lb.	4½"	1"	—	**5ULL0**
Double Pulley Blocks						
Flat Mount, Galvanized	¼"	660 lb.	3¼"	—	—	**5ULN3**
Snatch Blocks						
Plain, Powder Coated	⅝"	3000 lb.	4"	—	—	**5RRU9**
Sheaves						
Ball Bearing, Galvanized	9/32"	300 lb.	2¾"	⅝"	—	**5RTD3**
Center Bore, Zinc Plated	¼"	685 lb.	2½"	½"	None	**493R60**
	¼"	800 lb.	3"	½"	None	**493R61**
	5/16"	1550 lb.	3½"	¾"	None	**493R62**
	5/16"	1700 lb.	4"	⅞"	None	**493R67**
	⅜"	1700 lb.	4"	1"	None	**493R69**



No. 4FRX5



No. 4FRV4



No. 4FRX9



No. 4FRU8

Stainless Steel Fibrous and Wire Rope Sheaves and Pulleys

RONSTAN

Provide a strong, low-friction turning point. High compression-grade acetal ball bearings provide minimal friction across a full working load range. Pulley Blocks allow quick rope removal and block detachment. Additional items available on Grainger.com®.

Designed For	Rope Dia.	Working Load Limit	Type	Sheave Outside Dia.	Item No.
Sheave					
Fibrous Rope	¼"	—	Acetal, Solid	¾"	**4FRW4**
	¼"	—	Acetal, Ball Bearing	1 1/8"	**4FRX5**
	5/16"	—	Acetal, Solid	1½"	**4FRW9**
	½"	—	Acetal, Solid	1½"	**4FRX2**
	9/16"	—	Acetal, Solid	1 15/16"	**4FRW7**
Pulley Block					
Fibrous Rope	7/16"	880 lb.	Loop Top	1 9/16"	**4FRX8**
	7/16"	880 lb.	Swivel Shackle Hd	1 9/16"	**4FRX9**
	7/16"	880 lb.	Swivel Shackle Hd, Becket	1 9/16"	**4FRY1**
	½"	1650 lb.	Loop Top	2"	**4FRY2**
	½"	1650 lb.	Swivel Shackle Hd	2"	**4FRY3**
	½"	1650 lb.	Swivel Shackle Hd, Becket	2"	**4FRY4**
	½"	1760 lb.	Flat Mount	2"	**4FRV4**
	½"	1760 lb.	Swivel Shackle Head	2"	**4FRV6**
Wire Rope	⅛"	990 lb.	Removable Clevis Pin Hd	1"	**4FRV1**
	⅛"	990 lb.	Ferrule Top, Removable Sheave	1"	**4FRU9**
	¼"	1870 lb.	Ferrule Top, Removable Sheave	1¾"	**4FRU8**
	5/16"	830 lb.	Sheave Box-9/16" Width	1 3/16"	**4FRV8**

GA GRAINGER APPROVED



Forged Galvanized Steel Turnbuckle Body - No End Fitting



Eye & Eye Fitting



Jaw End Fitting

Turnbuckles

Turnbuckles quickly tighten and loosen chain and wire rope, providing secure connections with the precise tension required. When ordering components, order 1 body and 2 ends (1 left-handed thread and 1 right-handed thread) to make a complete unit.

WARNING: Do not exceed working load limit. Working load limit of an assembly is determined by the component with the lowest working load limit.

Working Load Limit (lb.)	Take Up (in.)	Thread Dia. (in.)	Close Length (in.)	Material	Item No.
Turnbuckle Bodies					
No End Fitting					
2200	6	½	—	Forged SS	**2ULW3**
Eye & Eye Fittings					
5200	18	¾	29	Forged Galvanized Steel	**4DV26**
Oval Eye Fitting					
Orientation Right					
3500	6	⅝	—	316 Forged Stainless steel	**2ULX7**
Eye End Fitting					
2200	12	½	—	Forged Galvanized Steel	**2ULE6**
5200	6	¾	—	Forged Galvanized Steel	**2ULF5**
10,000	18	1	—	Forged Galvanized Steel	**2ULH5**

Working Load Limit (lb.)	Take Up (in.)	Thread Dia. (in.)	Close Length (in.)	Material	Item No.
Hook End Fitting					
Orientation Left					
1500	6	½	—	Forged Galvanized Steel	**2ULJ3**
Orientation Right					
400	4	¼	—	Forged Galvanized Steel	**2ULH7**
1100	6	⅜	—	Forged Galvanized Steel	**2ULJ2**
3000	6	¾	—	Forged Galvanized Steel	**2ULK7**
Jaw End Fitting					
2800	8	⅝	—	Cast Stainless Steel	**2UMF7**
5200	6	¾	—	316 Forged Stainless steel	**2UMA8**

Warning! This winch equipment is not to be used for lifting, supporting, or transporting people or loads over areas where people could be present.

Chicago Hardware & Fixture Company

Turnbuckles and Swivels

Turnbuckles are made with USA steel for full traceability. Aluminum midget turnbuckles are corrosion-resistant for light-duty applications. Safety snap hooks are forged carbon steel with stainless steel latch, spring, machine screw, and nut; vertical loads are based on a safety factor of 5:1. All swivels are heat-treated and hot-dipped galvanized for corrosion resistance. Drop-forged turnbuckles, except stub ends, meet performance requirements of ASTM F1145, Type 1, Grade 1 Standards for heavy-duty tensioning applications.

Thread Dia. (in.)	Take Up (in.)	JAW AND JAW Working Load Limit (lb.)	JAW AND JAW Close Length (in.)	JAW AND JAW Item No.	EYE AND EYE Working Load Limit (lb.)	EYE AND EYE Close Length (in.)	EYE AND EYE Item No.	JAW AND EYE Working Load Limit (lb.)	JAW AND EYE Close Length (in.)	JAW AND EYE Item No.
Drop-Forged Turnbuckles										
1/4	4	500	8 1/2	6NDH3	500	8	49P587	500	8 1/4	6NDF2
5/16	4 1/2	800	9 1/4	6NDH4	800	9	49P588	800	9 1/8	6NDF3
3/8	6	1200	11 1/2	6NDH5	1200	11 1/2	49P589	1200	11 1/2	6NDF4
1/2	2	2200	8 7/8	6NDH6	2200	8 1/2	49P590	2200	8 3/4	6NDF5
	6	2200	13 1/2	6NDH7	2200	13	49P591	2200	13 1/4	6NDF6
	9	2200	16 1/2	6ZFJ0	2200	16	49P592	2200	16 1/4	6NDF7
	12	2200	19 1/2	6ZFJ1	2200	19	49P593	2200	19 1/4	6NDF8
5/8	6	3500	15 3/4	6ZFJ2	3500	13 1/2	49P594	3500	14 5/8	6NDF9
	9	3500	18 3/4	6ZFJ3	3500	17	49P595	3500	17 7/8	6NDG0
	12	3500	21 3/4	6ZFJ4	3500	20 1/2	49P596	3500	21 1/8	6NDG1
	18	3500	27 3/4	6ZFJ5	3500	26 1/2	49P597	3500	27 1/8	6NDG2
3/4	6	5200	16 1/2	6ZFJ6	5200	14 3/4	49P598	5200	15 5/8	6NDG3
	9	5200	19 1/2	6ZFJ7	5200	18	49P599	5200	18 3/4	6NDG4
	12	5200	22 1/2	6ZFJ8	5200	21 3/4	49P601	5200	22	6NDG5
	18	5200	28 1/2	6ZFJ9	5200	27 3/4	49P602	5200	28	6NDG6
7/8	6	7200	19 1/2	6ZFK0	7200	18	49P603	7200	19	6NDG7
	12	7200	24 1/2	6ZFK1	7200	22 1/2	49P604	7200	23 1/2	6NDG8
	18	7200	30 1/2	6ZFK2	7200	28 1/2	49P605	7200	29 1/2	6NDG9
1	6	10,000	20 3/16	6ZFK3	10,000	17	49P606	10,000	19 1/8	6NDH0
	12	10,000	25 1/2	6ZFK4	10,000	25	49P607	10,000	25 1/4	6NDH1
	18	10,000	31 1/2	6ZFK5	10,000	31	49P608	10,000	31 1/4	6NDH2

Thread Dia. (in.)	Take Up (in.)	HOOK AND EYE Working Load Limit (lb.)	HOOK AND EYE Close Length (in.)	HOOK AND EYE Item No.	HOOK AND HOOK Working Load Limit (lb.)	HOOK AND HOOK Close Length (in.)	HOOK AND HOOK Item No.	STUB END Working Load Limit (lb.)	STUB END Close Length (in.)	STUB END Item No.
Drop-Forged Turnbuckles										
1/4	4	400	8 1/4	6NDA0	400	8 1/2	6NDD1	500	10	6ZFR9
5/16	4 1/2	700	9 1/4	6NDA1	700	9 1/2	6NDD2	800	11	6ZFT0
3/8	6	1000	11 3/4	6NDA2	1000	12	6NDD3	1200	16	6ZFT1
1/2	2	1500	9 1/4	6NDA3	1500	10	6NDD4	2200	10 1/4	6ZFT2
	6	1500	13 3/8	6NDA4	1500	14 1/4	6NDD5	2200	16	6ZFT3
	9	1500	16 3/8	6NDA5	1500	17 1/4	6NDD6	2200	19	6ZFT4
	12	1500	19 5/8	6NDA6	1500	20 1/4	6NDD7	2200	22	6ZFT5
5/8	6	2250	14 1/8	6NDA7	2250	14 3/4	6NDD8	3500	16	6ZFT6
	9	2250	17 3/8	6NDA8	2250	17 3/4	6NDD9	3500	19	6ZFT7
	12	2250	20 5/8	6NDA9	2250	20 3/4	6NDE0	3500	22	6ZFT8
	18	2250	26 5/8	6NDC0	2250	26 3/4	6NDE1	3500	28	6ZFT9
3/4	6	3000	15 3/4	6NDC1	3000	16 3/4	6NDE2	5200	17	6ZFV0
	9	3000	18 7/8	6NDC2	3000	19 3/4	6NDE3	5200	20	6ZFV1
	12	3000	22 1/8	6NDC3	3000	22 3/4	6NDE4	5200	23	6ZFV2
	18	3000	28 1/8	6NDC4	3000	28 3/4	6NDE5	5200	29	6ZFV3
7/8	6	3200	18 1/2	6NDC5	3200	19	6NDE6	7200	18	6ZFV4
	12	3200	23 1/8	6NDC6	3200	23 3/4	6NDE7	7200	24	6ZFV5
	18	3200	29 1/8	6NDC7	3200	29 3/4	6NDE8	7200	30	6ZFV6
1	6	5000	19 1/2	6NDC8	5000	20	6NDE9	9800	19	6ZFV7
	12	5000	25 1/4	6NDC9	5000	25 1/2	6NDF0	9800	25	6ZFV8
	18	5000	31 1/4	6NDD0	5000	31 1/2	6NDF1	9800	31	6ZFV9
1 1/8	6	—	—	—	—	—	—	11500	19	6ZFW0
	12	—	—	—	—	—	—	11500	25	6ZFW1
1 1/4	6	—	—	—	—	—	—	14800	20	6ZFW2
1 3/8	6	—	—	—	—	—	—	17500	20 1/2	6ZFW3
1 1/2	6	—	—	—	—	—	—	21000	20 1/2	6ZFW4

Trade Size	Finish	EYE AND EYE Working Load Limit	EYE AND EYE Item No.	JAW AND EYE Working Load Limit	JAW AND EYE Item No.	CHAIN Working Load Limit	CHAIN Item No.	SAFETY SNAP Working Load Limit	SAFETY SNAP Item No.
Drop-Forged Swivels									
1/4"	Galvanized	860 lb.	6ZFL0	860 lb.	6ZFL6	520 lb.	6ZFN2	—	—
5/16"	Galvanized	1260 lb.	6ZFL1	1260 lb.	6ZFL7	920 lb.	6ZFN3	—	—
3/8"	Galvanized	2200 lb.	6ZFL2	2200 lb.	6ZFL8	1240 lb.	6ZFN4	—	—
1/2"	Galvanized	3600 lb.	6ZFL3	3600 lb.	6ZFL9	2200 lb.	6ZFN5	—	—
5/8"	Galvanized	5200 lb.	6ZFL4	5200 lb.	6ZFN0	3200 lb.	6ZFN6	—	—
3/4"	Galvanized	7000 lb.	6ZFL5	7000 lb.	6ZFN1	4000 lb.	6ZFN7	—	—
Drop-Forged Hooks With Eye									
7/16"	Self Color	—	—	—	—	—	—	750 lb.	6ZFK6
	Galvanized	—	—	—	—	—	—	750 lb.	6ZFK8
9/16"	Self Color	—	—	—	—	—	—	1000 lb.	6ZFK7
	Galvanized	—	—	—	—	—	—	1000 lb.	6ZFK9

Thread Dia. (in.)	Take Up (in.)	EYE AND EYE Working Load Limit (lb.)	EYE AND EYE Close Length (in.)	EYE AND EYE Item No.	HOOK AND EYE Working Load Limit (lb.)	HOOK AND EYE Close Length (in.)	HOOK AND EYE Item No.	HOOK AND HOOK Working Load Limit (lb.)	HOOK AND HOOK Close Length (in.)	HOOK AND HOOK Item No.
Aluminum Midget Turnbuckles										
1/4-20	2 1/8	74	5 1/2	6ZFP1	68	5 1/2	6ZFP8	—	—	—
1/64	1 5/8	38	4	6ZFN9	—	—	—	—	—	—
9/32	1-2/8	36	3 3/8	6ZFN8	36	3 3/8	6ZFP5	36	3 3/8	6ZFR2
1 1/4	2 1/8	—	—	—	—	—	—	68	5 1/2	6ZFR5
3/8-16	3	144	7 1/2	6ZFP3	144	7 1/2	6ZFR0	174	7 1/2	6ZFR7
	6	144	11 3/8	6ZFP4	144	11 3/8	6ZFR1	174	11 3/8	6ZFR8
5/16-18	2 1/2	96	6 3/4	6ZFP2	96	6 3/4	6ZFP9	112	6 3/4	6ZFR6
10-24	1 5/8	—	—	—	38	4	6ZFP6	44	4	6ZFR3
12-24	1 7/8	52	4 1/2	6ZFP0	52	4 1/2	6ZFP7	52	4 1/2	6ZFR4



Jaw and Jaw Turnbuckle



Eye and Eye



Jaw and Eye Turnbuckle



Hook and Eye Turnbuckle



Hook and Hook Turnbuckle



Stub End Turnbuckle



Eye and Eye Swivel



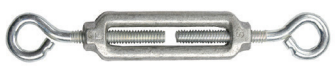
Jaw and Eye Swivel



Chain Swivel



Safety Snap Hook



Eye and Eye Midget Turnbuckle



No. 11C399

Gleason Reel

Wire Rope Festoon Kits

- Trolley capacity: 15 lb.
- Nylon wheels

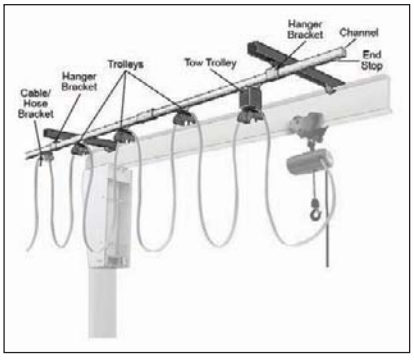
All kits include wire rope, hardware, intermediate trolleys, end clamp, tow clamp, and bumper stop.

Description	Cable Size (in.)	Item No.
Wire Rope Festoons for 3/16" to 3/8" O.D. Components		
Round Cable Type		
Festoon Cable/Hose Carrier Trolley	0.31 to 0.59	**35V720**
	0.60 to 0.94	**11C383**
	0.95 to 1.25	**11C384**
Wire Rope System Components		
Flat Cable Type		
Festoon Cable Carrier	2.1 x 0.66	**11C385**
Festoon End Clamp	2.0 x 1.25	**11C388**
Festoon Tow Clamp	2.0 x 1.25	**11C391**
Round Cable Type		
Festoon End Clamp	0.60 to 0.94 O.D.	**11C386**
	0.95 to 1.25 O.D.	**11C387**
Festoon Tow Clamp	0.31 to 0.59	**35V732**
	0.60 to 0.94 O.D.	**11C389**
	0.95 to 1.25 O.D.	**11C390**
Optional Accessories		
Festoon Tension Bracket	—	**11C392**
Festoon Tow Arm	—	**11C393**

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/ Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
0.65 x 2.0 Cable				
14 to 23	20.0	24	2	**11C394**
19 to 30	27.0	32	3	**11C395**
23 to 37	33.0	39	4	**11C396**
27 to 44	40.0	47	5	**11C397**
32 to 51	47.0	55	6	**11C398**
36 to 58	54.0	63	7	**11C399**
40 to 65	60.0	70	8	**11C401**
44 to 72	72.0	75	9	**11C402**
Round Festoon System Kits				
0.31 to 0.59 Cable				
13 to 21	18.0	25	2	**11C403**
17 to 27	24.0	34	3	**11C404**
21 to 34	30.0	42	4	**11C405**
25 to 40	37.0	50	5	**11C406**
28 to 47	43.0	58	6	**11C407**
32 to 53	49.0	67	7	**11C408**
36 to 60	55.0	75	8	**11C409**
40 to 67	61.0	82	9	**11C410**
44 to 74	67.0	89	10	**11C411**
0.60 to 0.94 Cable				
13 to 21	18.0	25	2	**11C412**
17 to 27	24.0	34	3	**11C413**
21 to 34	30.0	42	4	**11C414**
25 to 40	37.0	50	5	**11C415**
28 to 47	43.0	58	6	**11C416**
32 to 53	49.0	67	7	**11C417**
36 to 60	55.0	75	8	**11C418**
40 to 67	61.0	82	9	**11C419**
44 to 74	67.0	89	10	**11C420**
0.95 to 1.25 Cable				
13 to 21	18.0	25	2	**11C421**
17 to 27	24.0	34	3	**11C422**
21 to 34	30.0	42	4	**11C423**
25 to 40	37.0	50	5	**11C424**
28 to 47	43.0	58	6	**11C425**
32 to 53	49.0	67	7	**11C426**
36 to 60	55.0	75	8	**11C427**
40 to 67	61.0	82	9	**11C428**
44 to 74	67.0	89	10	**11C429**



No. 11C430



Gleason Reel

C-Rail Cable Festooning Systems

- Trolley capacity: 45 lb.
- Steel wheels

All systems include C-rail track, end clamp, intermediate trolleys, tow trolley, end caps, coupler/hanger, and end stop.

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/ Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
1.50 x 2.12" Cable				
20	17.0	26	3	**11C430**
30	26.0	37	5	**11C431**
40	36.0	48	6	**11C432**
50	45.0	59	8	**11C433**
60	55.0	70	10	**11C434**
70	64.0	82	12	**11C435**
80	72.0	93	14	**11C436**
90	82.0	103	16	**11C437**
100	92.0	113	18	**11C438**
Round Festoon System Kits				
0.60 to 0.94" Cable				
20	16.9	23	3	**11C474**
30	26.5	34	5	**11C475**
40	35.7	45	6	**11C476**
50	44.8	56	8	**11C477**
60	54.4	67	10	**11C478**
70	63.6	79	12	**11C479**
80	72.8	90	14	**11C480**
90	82.3	100	16	**11C481**
100	91.5	110	18	**11C482**
0.95 to 1.25" Cable				
20	16.9	23	3	**11C483**
30	26.5	34	5	**11C484**
40	35.7	45	6	**11C485**
50	44.8	56	8	**11C486**
60	54.4	67	10	**11C487**
70	63.6	79	12	**11C488**
80	72.8	90	14	**11C489**
90	82.3	100	16	**11C490**
100	91.5	110	18	**11C491**

Description	Cable Size (in.)	Item No.
Flat Cable Festooning Components		
Festoon Tow Trolley	1.50 x 2.12	**11C439**
Festoon Intermediate Trolley	1.50 x 2.12	**11C440**
Festoon Fixed Clamp	1.50 x 2.12	**11C441**
Festoon Beam Clamp	—	**11C448**
Festoon Track, 10 ft. L	—	**11C442**
Festoon Cross Arm, 2½ ft. L	—	**11C443**
Festoon Tow Arm, 1½ ft. L	—	**11C447**
Festoon Track Splice	—	**11C444**
Festoon End Stop	—	**11C445**
Festoon Track Bracket	—	**11C446**
Brass Flat Cable Connector	0.45 x 1.18 Max	**11C449**
	0.47 x 1.77 Max	**11C450**
	0.45 x 1.57 Max	**11C451**
	0.47 x 1.97 Max	**11C452**
Round Cable Festooning Components		
Festoon Tow Trolley	0.60 to 0.94	**11C467**
	0.95 to 1.25	**11C470**
Festoon Intermediate Trolley	0.60 to 0.94	**11C468**
	0.95 to 1.25	**11C471**
Festoon Fixed Clamp	0.60 to 0.94	**11C469**
	0.95 to 1.25	**11C472**
Festoon Track Bracket	—	**11C473**
Festoon End Stop		
I-Beam Hung	—	**11C497**



No. 7CZ29

Dayton

Box Track Festoon Systems

Easy-to-assemble systems support flat or round cable and hoses for delivering power and control.

Overall Length (ft.)	Item No.
Festoon System Kit	
With Trolleys for Flat Cable - 1.38 x 2.13	
20	7CZ29
30	7CZ30
40	7CZ31
50	7CZ32
60	7CZ33
70	7CZ34
80	7CZ35
90	7CZ36
100	7CZ37
With Trolleys for Round Cable - .97 to 1.4	
20	7CZ38
30	7CZ39
40	7CZ40
50	7CZ41
60	7CZ42
70	7CZ43
80	7CZ44
90	7CZ45
100	7CZ46

Overall Length (ft.)	Item No.
With Trolleys for Round Cable - .6 to .96	
20	7CZ47
30	7CZ48
40	7CZ49
50	7CZ50
60	7CZ51
70	7CZ52
80	7CZ53
90	7CZ54
100	7CZ55
Festoon Track Kit	
Without Trolleys	
20	7CZ56
30	7CZ57
40	7CZ58
50	7CZ59
60	7CZ60
70	7CZ61
80	7CZ62
90	7CZ63
100	7CZ64



No. 11C492

Gleason Reel

Adjustable S-Beam Trolleys

Intermediate and control box trolleys include 4 steel ball bearing wheels. S-beam trolleys are economical, durable, and expandable. Festoon cable trolley runs on various size S-beams (S3 x 5.7, S4 x 7.7, S6 x 12.5). These trolleys roll on 4 steel ball bearing wheels that have a static load capacity of 1000 lb. each. This provides a rolling capacity of 154 lb. at 262 ft. per minute. Multiple cable saddle configurations provide a variety of cable carrying options for single or dual flat cable or round cable.

Cable Size (in.)	Cable Type	Item No.
Festoon Intermediate Trolley		
0.60 to 0.94	Round	11C492
0.95 to 1.25	Round	11C493
1.25 to 3.50	Dual Flat	11C494
1.25 x 3.50	Flat	11C495
Festoon End Clamp		
0.60 to 0.94	Round	11C501
0.95 to 1.30	Round	11C502
1.25 x 3.50	Flat	11C498
1.25 x 3.50	Dual Flat	11C499
Festoon Control Box Trolley		
0.94 to 1.25	—	11C496
Festoon End Stop		
—	—	11C497

Description	Item No.
Festoon Tow Arm	
1 ft. Overall L - I-Beam Hung	11C503
1¼ ft. Overall L - I-Beam Hung	11C504
1½ ft. Overall L - I-Beam Hung	11C505



No. 33N203

Dayton

Festoon System Kits

- Trolley capacity: 13 lb.
- Molded concave nylon wheels

All kits include wire rope, hardware, intermediate trolleys, and end clamp.

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/ Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
0.88 x 2.38" Cable				
20	20.0	32	3	33N203
40	40.0	54	6	33N204
60	60.0	76	9	33N205
80	80.0	98	13	33N206
Round Festoon System Kits				
0.91 to 1.25" Cable				
20	20.0	32	3	33N207
40	40.0	54	6	33N208
60	60.0	76	9	33N209
80	80.0	98	13	33N210
0.49 to 0.91" Cable				
20	20.0	32	3	33N211
40	40.0	54	6	33N212
60	60.0	76	9	33N213
80	80.0	98	13	33N214

Description	Item No.
Box Track Components	
Festoon Track Section	33N234
Festoon Joint Bracket	33N235
Festoon Hanger Bracket	33N236
Festoon End Stop	33N237
Festoon Support Bracket	33N238
Festoon Support Bracket Clip	33N239
End Cap	35W634
Tow Bar	35W635
Festoon Hardware Kit	33N273
Tow Car	33N201

Cable Size (in.)	Item No.
Festoon Lead Trolleys	
Flat Cable	
1.38 x 2.13	33N227
Round Cable	
0.6 to 0.96	33N229
0.97 to 1.4	33N228
Festoon Intermediate Trolleys	
Flat Cable	
0.59 x 2.13	33N230
0.87 x 2.13	33N267
1.38 x 2.13	33N224
1.50 x 2.32	33N199
Round Cable	
0.49 to 0.91	33N268
0.6 to 0.96	33N226
0.91 to 1.25	33N269
0.97 to 1.4	33N225
Festoon End Clamps	
Flat Cable	
0.87 x 2.13	33N270
1.38 x 2.13	33N231
1.50 x 2.32	33N202
Round Cable	
0.6 to 0.96	33N233
0.91 to 1.25	33N272
0.97 to 1.4	33N232

Gleason Reel

Festoon Cable and Connectors

- 660V
- Black color

Flat electrical cable is PVC jacketed; temp. range: -40° to 105C°.

Round electrical cable is type SO; temp. range: -40° to 90C°. UL Listed and CSA Certified.



Flat Festoon Cable



Flat Cable Connector

Cable Size (in.)	Item No.
Flat Cable Connectors	
Nylon	
0.45 x 1.18 Max	11C453
0.45 x 1.57 Max	11C454
0.47 x 1.77 Max	11C455
Round Cable Connectors	
Nylon	
.231 to .394	11C462
.270 to .480	11C463
.428 to .546	11C464

Conductor Size (AWG)	Conductors	Amps	H (in.)	W (in.)	Weight/ ft. (lb.)	Item No.
Flat Electrical Cables						
16	12	14	0.225	1.700	0.27	11C510
14	4	27	0.24	0.690	0.13	11C511
	8	19	0.24	1.290	0.24	11C512
	12	19	0.24	1.825	0.37	11C513
12	4	33	0.26	0.800	0.16	11C514
10	4	44	0.29	0.890	0.23	11C516
8	4	60	0.375	1.225	0.42	11C517
6	4	82	0.435	1.490	0.65	11C518
Round Electrical Cables						
16	3	10	—	0.393	0.11	11C521
14	3	15	—	0.538	0.18	11C524
	4	12	—	0.584	0.22	11C525
	8	10.5	—	0.770	0.37	11C526
12	3	20	—	0.616	0.24	11C527
	4	16	—	0.668	0.28	11C528
10	4	20	—	0.730	0.37	11C529

MALIN SINCE 1884

Baling and Safety Wire

- Packaged in spools, except as noted.



No. 16X974 – Spool


No. 16X997 – Coil



No. 16Y047 – Canister

ALUMINUM WIRE
- Grade 1100 soft temper
- Max. tensile strength: 15,500 psi

This 99% aluminum wire is lightweight, matte finish, offers good electrical conductivity, and is fair with corrosion resistance applications.

GALVANIZED ANNEALED WIRE
- Grade 1008-1010 soft temper
- Max. tensile strength: 75,000 psi

Galvanized wire has better corrosion resistance than matte and oil-finished wire.

BLACK ANNEALED WIRE
- Grade 1006-1008 high-carbon wire
- Max. tensile strength: 65,000 psi

Designed for baling, stove, or pipe wire. Ranges in color from dark gray to brown.

STAINLESS STEEL LOCKWIRE
- Grade 302/304 soft temper
- Min. tensile strength: 75,000 psi

Commonly used as safety-lock wire in food processing and chemical environments.

INCONEL WIRE
- Grade 600 soft temper
- Max. tensile strength: 115,000 psi

Nickel wire is frequently used as a safety-lock wire in harsh environments.

MONEL WIRE
- Grade 400 soft temper
- Max. tensile strength: 85,000 psi

Nickel wire is often used as a safety-lock wire in acidic environments. Provides good corrosion resistance.

	Weight							
	¼ LB.		1 LB.		5 LB.		12 LB.	
Dia.	L	Item No.	L	Item No.	L	Item No.	L	Item No.
Aluminum Baling Wire								
0.0126"	1735 ft.	**16X974**	6940 ft.	**16X985**	—	—	—	—
0.0159"	1090 ft.	**16X975**	4358 ft.	**16X986**	—	—	—	—
0.0201"	682 ft.	**16X976**	2727 ft.	**16X987**	—	—	—	—
0.0253"	430 ft.	**16X977**	1721 ft.	**16X988**	—	—	—	—
0.0319"	269 ft.	**16X978**	1076 ft.	**16X989**	—	—	—	—
0.0403"	170 ft.	**16X979**	678 ft.	**16X990**	—	—	—	—
0.0508"	107 ft.	**16X980**	427 ft.	**16X991**	—	—	—	—
0.064"	67 ft.	**16X981**	268 ft.	**16X992**	—	—	—	—
0.0808"	42 ft.	**16X982**	169 ft.	**16X993**	—	—	2026 ft.	**16X996** †
0.1144"	21 ft.	**16X983** †	84 ft.	**16X994**	—	—	1010 ft.	**16X997** †
0.125"	17 ft.	**16X984** †	67 ft.	**16X995**	—	—	808 ft.	**16X998** †
Galvanized Annealed Wire								
0.023"	177 ft.	**16Y021**	709 ft.	**16Y028**	3544 ft.	**16Y035**	—	—
0.0286"	115 ft.	**16Y022**	458 ft.	**16Y029**	2292 ft.	**16Y036**	—	—
0.0348"	77 ft.	**16Y023**	310 ft.	**16Y030**	1548 ft.	**16Y037**	—	—
0.041"	56 ft.	**16Y024**	223 ft.	**16Y031**	1115 ft.	**16Y038**	—	—
0.0475"	42 ft.	**16Y025**	166 ft.	**16Y032**	831 ft.	**16Y039**	—	—
0.0625"	24 ft.	**16Y026**	96 ft.	**16Y033**	480 ft.	**16Y040**	—	—
0.08"	15 ft.	**16Y027**	59 ft.	**16Y034**	293 ft.	**16Y041**	—	—
Black Annealed Wire								
0.023"	177 ft.	**16X999**	709 ft.	**16Y007**	3544 ft.	**16Y014**	—	—
0.0286"	115 ft.	**16Y001**	458 ft.	**16Y008**	2292 ft.	**16Y015**	—	—
0.0348"	77 ft.	**16Y002**	310 ft.	**16Y009**	1548 ft.	**16Y016**	—	—
0.041"	56 ft.	**16Y003**	223 ft.	**16Y010**	1115 ft.	**16Y017**	—	—
0.0475"	42 ft.	**16Y004**	166 ft.	**16Y011**	830 ft.	**16Y018**	—	—
0.0625"	24 ft.	**16Y005**	96 ft.	**16Y012**	480 ft.	**16Y019**	—	—
0.08"	15 ft.	**16Y006**	59 ft.	**16Y013**	293 ft.	**16Y020**	—	—
Stainless Steel Lockwire								
0.02"	232.75 ft.	**16Y042**	931 ft.	**16Y047** *	4655 ft.	**16Y052**	—	—
0.025"	149 ft.	**16Y043**	596 ft.	**16Y048** *	2980 ft.	**16Y053**	—	—
0.032"	91 ft.	**16Y044**	364 ft.	**16Y049** *	1820 ft.	**16Y054**	—	—
0.041"	55.25 ft.	**16Y045**	221 ft.	**16Y050** *	1105 ft.	**16Y055**	—	—
0.051"	35.75 ft.	**16Y046**	143 ft.	**16Y051** *	715 ft.	**16Y056**	—	—
Inconel Lockwire								
0.02"	207.75 ft.	**16Y057**	831 ft.	**16Y061** *	—	—	—	—
0.0253"	133 ft.	**16Y058**	532 ft.	**16Y062** *	—	—	—	—
0.0319"	81.5 ft.	**16Y059**	326 ft.	**16Y063** *	—	—	—	—
0.041"	51.78 ft.	**16Y060**	207.12 ft.	**16Y064** *	—	—	—	—
Monel Lockwire								
0.0201"	207.75 ft.	**16Y065**	831 ft.	**16Y069**	—	—	—	—
0.0253"	133 ft.	**16Y066**	532 ft.	**16Y070**	—	—	—	—
0.0319"	81.5 ft.	**16Y067**	326 ft.	**16Y071**	—	—	—	—
0.051"	31.948 ft.	**16Y068**	127.79 ft.	**16Y072**	—	—	—	—

** Canister packaging. † Coil packaging.*


No. 38D182



No. 38D196

Baling Ties and Wire

COASTAL WIRE COMPANY

Painted ties combine the clean handling of a galvanized tie with the ease of tying associated with black annealed ties. Paint coating does not peel or flake. Wire features 65,000 to 70,000 tensile strength with a minimum of 25% elongation.

Dia.	L	Gauge	Weight	GALVANIZED STEEL Item No.	PAINTED STEEL Item No.
Single Loop Bale Ties					
0.08"	13 ft.	14 ga.	58 lb.	**38D187**	**38D194**
	14 ft.	14 ga.	62 lb.	**38D188**	**38D195**
0.092"	14 ft.	13 ga.	40½ lb.	**38D186**	**38D193**
0.121"	21 ft.	11 ga.	52 lb.	**38D185**	**38D192**
0.106"	14 ft.	12 ga.	54 lb.	**38D182**	**38D189**
	18 ft.	12 ga.	69 lb.	**38D183**	**38D190**
	21 ft.	12 ga.	80 lb.	**38D184**	**38D191**

Dia.	L	Gauge	Weight	ANNEALED WIRE Item No.
Double Loop Bale Ties				
0.0625"	10"	16 ga.	57 lb.	**39UK40**
	1½ ft.	16 ga.	44 lb.	**39UK41**
	½ ft.	16 ga.	48 lb.	**39UK42**

Dia.	L	Gauge	Weight	ANNEALED STEEL Item No.
Baling Wire				
0.121"	1287 ft.	11 ga.	50 lb.	**38D199**
	2575 ft.	11 ga.	100 lb.	**38D197**
0.135"	1026 ft.	10 ga.	50 lb.	**38D198**
	2053 ft.	10 ga.	100 lb.	**38D196**


No. 20Y781

GA GRAINGER APPROVED

Steel Wire Bale Ties

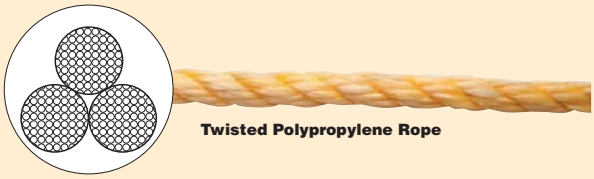
- Galvanized finish

L	Gauge	Weight	Item No.	Pkg. Qty.
13 ft.	13 ga.	75 lb.	**20Y783**	250
	14 ga.	57 lb.	**20Y781**	250
14 ft.	13 ga.	80 lb.	**20Y784**	250
	14 ga.	62 lb.	**20Y782**	250
18 ft.	12 ga.	68 lb.	**20Y785**	125
21 ft.	12 ga.	80 lb.	**20Y786**	125

All-Purpose Rope Terminology



Twisted Cotton Rope



Twisted Polypropylene Rope



Hollow Braided Rope

MATERIAL SELECTION GUIDE

	Natural Fiber	Nylon	Polyester	Polypropylene
Strength	Low	Highest	High	Average
Abrasion Resistance	Low	High	Highest	Average
Stretch Resistance	Highest	Low	High	Average
Rot/Mildew Resistance	Low	Average	High	Highest
Chemical Resistance	Low	Average	Highest	High
Critical Temperature	300°F/150°C	350°F/175°C	350°F/175°C	250°F/125°C
Storage	Dry	Dry or Wet	Dry or Wet	Dry or Wet
Floats	No	No	No	Yes

CONSTRUCTION

Twisted—Also known as 3-strand. Available in a wide variety of fibers for general purpose uses. Can be easily spliced.

Knit Braid—Braided jacket, usually lightweight and economical. Ideal for applications that require the rope to stretch.

Braid/Solid Braid—Firm, round rope with lock-stitch construction. Maintains shape under load, making it ideal in blocks or pulley applications. Cannot be spliced.

Hollow Braid—Constructed of 8, 12, or 16 strands. Used in marine applications. Can easily be spliced.

Double Braid—Solid braid core covered by a braided jacket. Torque free and nonrotational. High strength, can be easily spliced.

Diamond Braid—Constructed by braiding fibers to form diamond shapes. Rope is often flat or box-like and very easy to splice.

FIBER

Composite—Blend of polyester and polypropylene. Stronger and better resilience to UV rays and other corrosives. Firmer than traditional polyester rope.

Natural Fiber (Cotton, Jute, and Manila)—Knots well and has good abrasion resistance, but not as strong or durable as synthetic fibers. Cotton must be kept dry, and has low resistance to rot, mildew, oils, gas, grease, and chemicals.

Nylon—Excellent shock absorption. It stretches, is rotproof, and resistant to UV rays, oils, gasoline, grease, and nonacidic chemicals.

Polyester—Minimal stretch and high strength. Rotproof and resistant to UV rays, oils, gasoline, grease, and nonacidic chemicals.

Polypropylene—Lightweight, economical fiber, can be made in many colors and floats. Should not be exposed to UV rays or high heat.

SNAPBACK SAFETY WARNING: A dangerous situation occurs if personnel are in line with a rope under tension. Should the rope fail, it may recoil with considerable force. Death may result. Warn people against standing in line with the rope or its bight. To help ropes last longer: AVOID overloading, abrasion, sudden strain, kinks, sharp angles, chemicals, and improper storage. Use correct size rope for job, reverse ends of rope, and keep rope clean.



Braid, Cotton
No. 35MN88



3-Strand Twisted Manila
No. 35MN96



Solid Braid, Nylon
No. 35MP14



Double Braid, Polyester
No. 45AU87



Twisted, Polypropylene
No. 45AU93

★GA GRAINGER APPROVED

All-Purpose Rope

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Working Load Limit	Package Type	Item No.
Composite							
Twisted	3/8"	600 ft.	293 lb.	Black Tracer/White	293 lb.	Spool	**45AU86**
	1/2"	600 ft.	465 lb.	Black Tracer/White	465 lb.	Spool	**45AV40**
	3/4"	600 ft.	1065 lb.	Black Tracer/White	1065 lb.	Spool	**45AV14**
Cotton							
Knit Braid	3/16"	50 ft.	15 lb.	White	15 lb.	Hank	**35MN88**
Solid Braid	5/32"	100 ft.	75 lb.	White	75 lb.	Hank	**35MN85**
	1/4"	100 ft.	75 lb.	White	75 lb.	Hank	**35MN86**
	5/16"	100 ft.	120 lb.	White	120 lb.	Hank	**35MN87**
Twisted	3/8"	600 ft.	30 lb.	White	30 lb.	Spool	**45AV28**
	1/2"	300 ft.	215 lb.	White	215 lb.	Reel	**35MP23**
	5/8"	600 ft.	50 lb.	White	50 lb.	Spool	**45AV43**
Manila							
Twisted	1/4"	1200 ft.	54 lb.	Natural	54 lb.	Coil	**12U281**
	1/4"	1200 ft.	54 lb.	Manila	54 lb.	Carton	**35MN96**
	3/8"	600 ft.	122 lb.	Natural	122 lb.	Coil	**12U282**
	3/8"	600 ft.	122 lb.	Manila	122 lb.	Carton	**35MN97**
	1/2"	100 ft.	239 lb.	Natural	239 lb.	Coil	**12U283**
	1/2"	600 ft.	238 lb.	Manila	238 lb.	Carton	**35MN98**
	1/2"	600 ft.	239 lb.	Natural	239 lb.	Coil	**12U284**
	5/8"	600 ft.	396 lb.	Natural	396 lb.	Coil	**12U285**
	5/8"	600 ft.	396 lb.	Manila	396 lb.	Carton	**35MN99**
	3/4"	600 ft.	486 lb.	Natural	486 lb.	Coil	**12U286**
	3/4"	600 ft.	486 lb.	Manila	486 lb.	Carton	**35MP01**
	1"	600 ft.	810 lb.	Natural	810 lb.	Coil	**12U287**
	1"	600 ft.	810 lb.	Manila	810 lb.	Carton	**35MP02**

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Working Load Limit	Package Type	Item No.
Nylon							
Braid	1/4"	100 ft.	130 lb.	White	130 lb.	Hank	**35MP09**
Double Braid	1/4"	600 ft.	215 lb.	White	215 lb.	Spool	**45AU83**
	3/8"	600 ft.	450 lb.	White	450 lb.	Spool	**45AU92**
	1/2"	600 ft.	810 lb.	White	810 lb.	Spool	**45AU96**
	5/8"	600 ft.	1400 lb.	White	1400 lb.	Spool	**45AV15**
	3/4"	600 ft.	1820 lb.	White	1820 lb.	Spool	**45AV61**
	1"	600 ft.	3330 lb.	White	3330 lb.	Spool	**45AV45**
Solid Braid	1/8"	500 ft.	39 lb.	White	39 lb.	Reel	**35MP14**
	3/16"	100 ft.	62 lb.	White	62 lb.	Bag	**12U273**
	3/16"	1000 ft.	62 lb.	White	62 lb.	Spool	**20RX11**
	3/16"	1000 ft.	79 lb.	White	79 lb.	Reel	**35MP15**
	1/4"	100 ft.	108 lb.	White	108 lb.	Bag	**12U274**
	1/4"	500 ft.	108 lb.	White	108 lb.	Spool	**12U275**
	5/16"	100 ft.	162 lb.	White	162 lb.	Hank	**12U276**
	5/16"	500 ft.	193 lb.	White	193 lb.	Reel	**35MP16**
	3/8"	100 ft.	229 lb.	White	229 lb.	Hank	**12U278**
	3/8"	200 ft.	229 lb.	White	229 lb.	Spool	**12U279**
	3/8"	500 ft.	247 lb.	White	247 lb.	Reel	**35MP17**
	1/2"	250 ft.	387 lb.	White	387 lb.	Spool	**12U280**
	1/2"	500 ft.	396 lb.	White	396 lb.	Reel	**35MP18**

CONTINUED

CONTINUED

All-Purpose Rope

GRAINGER APPROVED

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Working Load Limit	Package Type	Item No.
Twisted	¼"	50 ft.	110 lb.	White	110 lb.	Bag	45AV42
	¼"	600 ft.	154 lb.	White	154 lb.	Spool	45AU81
	¼"	600 ft.	180 lb.	White	180 lb.	Reel	35MP05
	¼"	1200 ft.	180 lb.	White	180 lb.	Spool	45AV08
	⅜"	100 ft.	250 lb.	White	250 lb.	Hank	45AV69
	⅜"	100 ft.	324 lb.	White	324 lb.	Hank	8CGV5
	⅜"	600 ft.	322 lb.	White	322 lb.	Reel	35MP12
	⅜"	600 ft.	379 lb.	White	379 lb.	Reel	35MP06
	⅜"	600 ft.	379 lb.	White	379 lb.	Spool	45AV02
	½"	50 ft.	450 lb.	White	450 lb.	Hank	45AU91
	½"	200 ft.	630 lb.	White	630 lb.	Spool	45AV49
	½"	300 ft.	635 lb.	White	635 lb.	Spool	45AU88
	½"	600 ft.	630 lb.	White	630 lb.	Spool	45AU90
	½"	600 ft.	750 lb.	White	750 lb.	Reel	35MP07
	½"	600 ft.	750 lb.	White	750 lb.	Spool	45AV17
	⅝"	300 ft.	1100 lb.	White	1100 lb.	Spool	45AV44
	⅝"	600 ft.	940 lb.	White	940 lb.	Spool	45AV38
	⅝"	600 ft.	1120 lb.	White	1120 lb.	Spool	45AU97
	¾"	300 ft.	1210 lb.	White	1210 lb.	Spool	45AV63
	¾"	600 ft.	1200 lb.	White	1200 lb.	Spool	45AV57
	¾"	600 ft.	1430 lb.	White	1430 lb.	Spool	45AV70
	1"	600 ft.	1120 lb.	White	1120 lb.	Reel	35MP08
	1"	600 ft.	2700 lb.	White	2700 lb.	Spool	45AV19
	1¼"	600 ft.	3400 lb.	White	3400 lb.	Spool	45AV56
	1½"	600 ft.	4300 lb.	White	4300 lb.	Spool	45AU94
Nylon/Polyester							
Solid Braid	5⁄16"	300 ft.	162 lb.	White	162 lb.	Spool	12U277
Polyester							
Diamond Braid	7⁄32"	100 ft.	21 lb.	White	21 lb.	Hank	12U288
	¼"	100 ft.	28 lb.	White	28 lb.	Hank	12U289
	⅜"	100 ft.	64 lb.	White	64 lb.	Hank	12U290
Double Braid	¼"	600 ft.	200 lb.	Green Tracer/White	200 lb.	Spool	45AV68
	⅜"	600 ft.	440 lb.	Green Tracer/White	440 lb.	Spool	45AU74
	½"	600 ft.	790 lb.	Green Tracer/White	790 lb.	Spool	45AU82
	⅝"	600 ft.	1260 lb.	Green Tracer/White	1260 lb.	Spool	45AV62
	¾"	600 ft.	1850 lb.	Green Tracer/White	1850 lb.	Spool	45AV51
	1"	600 ft.	3120 lb.	Green Tracer/White	3120 lb.	Spool	45AU87
Polyester/ Polypropylene							
Twisted	⅝"	600 ft.	790 lb.	Black Tracer/White	790 lb.	Spool	45AV31
Polyolefin							
Braid	⅛"	50 ft.	10 lb.	Black/Blue/ Orange/Red	10 lb.	Hank	45AV24
	⅜"	100 ft.	16 lb.	Black/Blue/Green/ Orange/Red/Yellow	16 lb.	Hank	45AV32
Polypropylene							
Diamond Braid	3⁄16"	100 ft.	60 lb.	Blue	60 lb.	Hank	20TL72
	¼"	100 ft.	120 lb.	Blue	120 lb.	Hank	20TL73
	⅜"	50 ft.	120 lb.	Black/Blue/ Red/Yellow	120 lb.	Hank	20TL79
	⅜"	50 ft.	240 lb.	Blue	240 lb.	Hank	20TL74
	⅜"	100 ft.	240 lb.	Blue	240 lb.	Hank	20TL75
	⅜"	250 ft.	120 lb.	Black/Blue/ Red/Yellow	120 lb.	Spool	20TL80
	½"	50 ft.	440 lb.	Blue	440 lb.	Hank	20TL76
	½"	100 ft.	440 lb.	Blue	440 lb.	Hank	20TL77
	⅝"	100 ft.	600 lb.	Blue	600 lb.	Hank	20TL78

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Working Load Limit	Package Type	Item No.
Hollow Braid	¼"	500 ft.	110 lb.	Black	110 lb.	Spool	45AV64
	¼"	1000 ft.	100 lb.	Black	100 lb.	Spool	45AV33
	¼"	1000 ft.	100 lb.	Blue	100 lb.	Spool	45AV34
	¼"	1000 ft.	122 lb.	Yellow	122 lb.	Spool	45AU89
	¼"	1000 ft.	198 lb.	Yellow	198 lb.	Spool	20TL63
	⅜"	100 ft.	215 lb.	Yellow	215 lb.	Bag	8URR3
	⅜"	500 ft.	257 lb.	Yellow	257 lb.	Reel	35MP13
	⅜"	500 ft.	257 lb.	Black	257 lb.	Spool	45AV16
	⅜"	600 ft.	215 lb.	Yellow	215 lb.	Reel	8PJ99
	½"	300 ft.	440 lb.	Yellow	440 lb.	Spool	45AU80
	½"	500 ft.	350 lb.	Yellow	350 lb.	Reel	8CL16
Twisted	3⁄16"	1000 ft.	70 lb.	Yellow	70 lb.	Spool	45AV30
	3⁄16"	3000 ft.	70 lb.	Yellow	70 lb.	Spool	45AV09
	¼"	50 ft.	90 lb.	Yellow	90 lb.	Bag	45AV05
	¼"	600 ft.	105 lb.	Yellow	105 lb.	Reel	35MN92
	¼"	600 ft.	108 lb.	Yellow	108 lb.	Reel	35MP03
	¼"	1200 ft.	90 lb.	Tan	90 lb.	Spool	45AV23
	¼"	1200 ft.	108 lb.	Yellow	108 lb.	Spool	45AU78
	5⁄16"	600 ft.	160 lb.	Magenta/Yellow	160 lb.	Spool	45AV10
	5⁄16"	600 ft.	160 lb.	Black/Yellow	160 lb.	Spool	45AV39
	5⁄16"	1200 ft.	146 lb.	Black/Yellow	146 lb.	Reel	35MN93
	⅜"	50 ft.	195 lb.	Yellow	195 lb.	Bag	45AV47
	⅜"	50 ft.	215 lb.	Black/Orange	215 lb.	Ball	45AV21
	⅜"	600 ft.	195 lb.	Tan	195 lb.	Spool	45AU79
	⅜"	600 ft.	214 lb.	Yellow	214 lb.	Reel	35MN94
	⅜"	600 ft.	215 lb.	Yellow	215 lb.	Spool	45AU77
	⅜"	600 ft.	215 lb.	Orange	215 lb.	Spool	45AU95
	⅜"	600 ft.	215 lb.	Black	215 lb.	Spool	45AU98
	⅜"	600 ft.	215 lb.	Blue	215 lb.	Spool	45AV22
	⅜"	600 ft.	215 lb.	Black/Orange	215 lb.	Spool	45AV25
	⅜"	1200 ft.	215 lb.	Yellow	215 lb.	Spool	45AV03
	½"	50 ft.	420 lb.	Black/Orange	420 lb.	Shrink Pack	9WP25
	½"	600 ft.	300 lb.	Tan	300 lb.	Spool	45AV07
	½"	600 ft.	340 lb.	Black/Orange	340 lb.	Spool	45AU99
	½"	600 ft.	347 lb.	Yellow	347 lb.	Reel	35MP04
	½"	600 ft.	387 lb.	Yellow	387 lb.	Reel	35MN95
	⅝"	200 ft.	700 lb.	Yellow	700 lb.	Reel	9CKC8
	⅝"	600 ft.	440 lb.	Tan	440 lb.	Spool	45AV35
	⅝"	600 ft.	582 lb.	Yellow	582 lb.	Spool	45AV67
	⅝"	600 ft.	598 lb.	Black/Orange	598 lb.	Spool	45AV26
	¾"	600 ft.	605 lb.	Tan	605 lb.	Spool	45AU85
	¾"	600 ft.	790 lb.	Yellow	790 lb.	Spool	45AV04
	¾"	600 ft.	790 lb.	Black/Orange	790 lb.	Spool	45AV55
	1"	600 ft.	1220 lb.	Black/Orange	1220 lb.	Spool	45AV46
	1"	600 ft.	1220 lb.	Yellow	1220 lb.	Spool	45AV54
	1"	600 ft.	1220 lb.	Black/Yellow	1220 lb.	Spool	45AV60
	1¼"	600 ft.	1294 lb.	Tan	1294 lb.	Reel	35MP11
	1¼"	600 ft.	1850 lb.	Yellow	1850 lb.	Spool	45AV52
	1½"	300 ft.	2600 lb.	Black/Yellow	2600 lb.	Coil	45AU93
	1½"	600 ft.	2640 lb.	Yellow	2640 lb.	Spool	45AV37
	2"	300 ft.	6000 lb.	White	6000 lb.	Spool	45AU76



No. 45AU84



No. 45AV11



No. 45AV06

GRAINGER APPROVED

Rigging Rope

Light-duty polyester solid braid rigging rope is made from economically priced biodegradable fiber yarn, braided into a smooth round rope. Loses no strength when wet.

Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
Braid						
⅛"	600 ft.	White	2000 lb.	200 lb.	Spool	45AU84
3⁄16"	50 ft.	White	280 lb.	28 lb.	Hank	45AV18
	600 ft.	White	3000 lb.	300 lb.	Spool	45AV41
7⁄32"	100 ft.	White	260 lb.	26 lb.	Bag	45AV11
Twisted						
¼"	600 ft.	White	1695 lb.	160 lb.	Spool	45AV50
⅜"	600 ft.	White	3567 lb.	350 lb.	Spool	45AV59
½"	600 ft.	White	7059 lb.	700 lb.	Spool	45AV06
⅝"	600 ft.	White	10,537 lb.	1000 lb.	Spool	45AV29
¾"	600 ft.	White	13,489 lb.	1320 lb.	Spool	45AV65
1"	600 ft.	White	28,141 lb.	2800 lb.	Spool	45AV58

GA GRAINGER APPROVED

Twine

Use for a variety of light-duty bundling and binding applications.

Natural Fiber—Including cotton and jute, is biodegradable and has a slightly lower cost. Excellent for parcel shipping, meatpacking and food service, and sewing applications.

Synthetic—Including nylon and polypropylene, offers high resistance to abrasion, rot, mildew, and chemicals. Commonly used in more demanding applications, such as lumberyard binding and bundling, manufacturing, and fishing.

Rope Construction	Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
Natural Fiber							
Cotton							
Plies	1/16"	370 ft.	White	20 lb.	2 lb.	Spool	**45AV48**
Twisted	1/16"	300 ft.	White	40 lb.	4 lb.	Spool	**45AV01**
	1/16"	400 ft.	Cream	24 lb.	2 lb.	Ball	**12U297**
	1/16"	400 ft.	White	100 lb.	10 lb.	Tube	**35MP21**
	9/64"	300 ft.	White	120 lb.	10 lb.	Tube	**35MP10**
	3/8"	600 ft.	White	300 lb.	30 lb.	Spool	**45AV28**
	5/8"	600 ft.	White	500 lb.	50 lb.	Spool	**45AV43**
Jute							
Plies	1/16"	140 ft.	Manila	40 lb.	4 lb.	Spool	**45AU75**
	1/16"	140 ft.	Green	40 lb.	4 lb.	Spool	**45AV12**
Synthetic Fiber							
Nylon							
Twisted	1/16"	250 ft.	Orange	100 lb.	10 lb.	Tube	**35MP19**
	1/16"	250 ft.	White	100 lb.	10 lb.	Tube	**35MP20**
	1/16"	525 ft.	White	150 lb.	27 lb.	Tube	**12U291**
	1/16"	525 ft.	Orange	150 lb.	27 lb.	Tube	**12U292**
	1/16"	525 ft.	Opti-Brite Yellow	150 lb.	27 lb.	Tube	**12U293**
	1/16"	1050 ft.	White	150 lb.	27 lb.	Tube	**12U295**
	1/16"	1050 ft.	Opti-Brite Yellow	150 lb.	27 lb.	Tube	**12U294**
	1/16"	1050 ft.	Orange	150 lb.	27 lb.	Tube	**12U296**
Polyester							
Diamond Braid	7/32"	100 ft.	White	235 lb.	21 lb.	Hank	**12U288**
	1/4"	100 ft.	White	315 lb.	28 lb.	Hank	**12U289**
	3/8"	100 ft.	White	710 lb.	64 lb.	Hank	**12U290**
Solid Braid	3/16"	500 ft.	White	800 lb.	160 lb.	Spool	**20TL67**
Polyolefin							
Braid	1/8"	50 ft.	Black/Blue/ Orange/Red	100 lb.	10 lb.	Hank	**45AV24**
	3/8"	100 ft.	Black/Blue/Green/ Orange/Red/Yellow	160 lb.	16 lb.	Hank	**45AV32**
Polypropylene							
Filament Twine	1/16"	6000 ft.	Green/White	210 lb.	21 lb.	Bucket	**35MN89**
	1/16"	6500 ft.	Green/White	210 lb.	21 lb.	Bucket	**35MN90**
Plies	1/16"	160 ft.	White	140 lb.	14 lb.	Spool	**45AV20**
	1/16"	3000 ft.	White	400 lb.	40 lb.	Carton	**45AV36**
	1/16"	4500 ft.	White	256 lb.	25 lb.	Carton	**45AV53**
	1/16"	9000 ft.	White	136 lb.	10 lb.	Carton	**45AV66**
Twisted	1/16"	6500 ft.	Green/White	210 lb.	21 lb.	Ball	**45UG37**
	1/8"	6500 ft.	Blue/White	210 lb.	42 lb.	Bucket	**12W347**



Cotton
No. 35MP10



Jute
No. 45AU75



Nylon
No. 35MP19



Polyester
No. 20TL67



Polyolefin
No. 45AV24



Polypropylene
No. 45UG37

Weeping Cord

GA GRAINGER APPROVED

Made of 100% premium solid braid cotton with no polypropylene core; soft for hand use. Excellent water absorption wick. Knots well.

Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
7/32"	100 ft.	Natural	100 lb.	20 lb.	Hank	**20TL83**
1/4"	100 ft.	Natural	120 lb.	20 lb.	Hank	**20TL86**
5/16"	100 ft.	Natural	220 lb.	40 lb.	Hank	**20TL81**
3/8"	100 ft.	Natural	300 lb.	60 lb.	Hank	**20TL84**
1/2"	100 ft.	Natural	400 lb.	80 lb.	Hank	**20TL82**



No. 20TL83

Rescue Rope

STERLING

HTP Static Rope—100% High-Tenacity Polyester (HTP) kernmantle construction gives this rope extremely low stretch and excellent durability, making it ideal for tower construction, raising systems, and industrial safety projects. Polyester also resists moisture and UV degradation. Certified to NFPA 1983:2012.

SuperStatic2—High-angle, technical rescue rope designed for rescue system mainlines and belays. 41/59 sheath/core ratio. Ideal for all types of technical rescue, confined space rescue, USAR, and industrial safety applications. 100% nylon, low-stretch kernmantle certified to NFPA 1983:2012.

Rope Dia.	Tensile Strength	Color	150 ft. L Item No.	200 ft. L Item No.	300 ft. L Item No.	600 ft. L Item No.
HTP Static						
3/8"	5979 lb.	Black	**40L877**	**40L878**	**40L879**	—
3/8"	5979 lb.	White	—	—	—	**40L880**
7/16"	6856 lb.	Red	**40L873**	**40L874**	**40L875**	**40L876**
1/2"	9081 lb.	Blue	**40L869**	**40L870**	**40L871**	**40L872**
5/8"	12,993 lb.	White	**40L865**	**40L866**	**40L867**	**40L868**
SuperStatic						
3/8"	5170 lb.	Blue	**40L889**	**40L890**	**40L891**	**40L892**
7/16"	6519 lb.	Orange	**40L885**	**40L886**	**40L887**	**40L888**
1/2"	9284 lb.	Yellow	**40L881**	**40L882**	**40L883**	**40L884**



No. 40L865



No. 40L889



Rigging Line (Bull Rope)



Climbing Line



Throw Line

GRAINGER APPROVED ALLGEAR

Arborist Rope

Rigging Line Rope (Bull Rope)—Double braid composite has a polyester jacket and nylon core. Urethane-coated, abrasion-resistant rope knots well.

Climbing Line Rope—Premium polyester construction. Good for tree climbing and no-pulley rigging. Knots well.

Throw Line—Nos. 3LAW1 and 12A632 to 12A634 are made from 100% Dyneema®. Smooth braided line with a high-tensile strength. Extremely slick. Nos. 3LAW2 and 12A631 are made of 100% braided polyethylene.

Rope Dia.	L	Tensile Strength	Working Load Limit	Color	Package Type	Brand	Item No.
Rigging Line Rope (Bull Rope)							
Double Braid							
½"	150 ft.	9500 lb.	1900 lb.	Blue	Bag	All Gear	**3VAH7**
	150 ft.	7800 lb.	1560 lb.	Blue/Green Tracer	Spool	GA	**20TL65**
	600 ft.	9500 lb.	1900 lb.	Blue	Reel	All Gear	**12A614**
	600 ft.	7800 lb.	1560 lb.	Blue/Green Tracer	Spool	GA	**20TL66**
9⁄16"	150 ft.	14,000 lb.	2800 lb.	Yellow	Bag	All Gear	**3VAH8**
	600 ft.	14,000 lb.	2800 lb.	Yellow	Reel	All Gear	**3VAK3**
5⁄8"	150 ft.	18,000 lb.	3600 lb.	Red	Bag	All Gear	**3VAJ9**
	600 ft.	18,000 lb.	3600 lb.	Red	Reel	All Gear	**12A615**
¾"	150 ft.	23,000 lb.	4600 lb.	Orange	Bag	All Gear	**3VAK1**
	600 ft.	23,000 lb.	4600 lb.	Orange	Reel	All Gear	**3VAK4**
7⁄8"	150 ft.	32,000 lb.	6400 lb.	Green	Reel	All Gear	**3VAK2**
Twisted							
5⁄8"	150 ft.	8100 lb.	1620 lb.	Blue/Red/White Tracer	Hank	GA	**20TL64**
Climbing Line Rope							
Diamond Braid							
7⁄16"	120 ft.	6300 lb.	630 lb.	Black/Blue/Green/Yellow	Bag	GA	**20TL55**
	120 ft.	6300 lb.	630 lb.	Black/Orange/Yellow	Bag	GA	**20TL57**
	150 ft.	5800 lb.	580 lb.	Blue/Green	Bag	GA	**20TL45**
	600 ft.	6300 lb.	630 lb.	Black/Blue/Green/Yellow	Spool	GA	**20TL56**
	600 ft.	6300 lb.	630 lb.	Black/Orange/Yellow	Spool	GA	**20TL58**
½"	120 ft.	7300 lb.	730 lb.	Red/White Tracer	Bag	GA	**20TL46**
	120 ft.	7500 lb.	750 lb.	Blue/Green/Yellow	Bag	GA	**20TL49**
	120 ft.	7300 lb.	730 lb.	Green/White/Yellow	Bag	GA	**20TL51**
	120 ft.	7500 lb.	750 lb.	Orange/Yellow	Bag	GA	**20TL60**
	150 ft.	7300 lb.	730 lb.	Red/White Tracer	Bag	GA	**20TL47**
	150 ft.	7300 lb.	730 lb.	Orange/Red/Yellow	Bag	GA	**20TL41**
	150 ft.	7300 lb.	730 lb.	Green/White/Yellow	Bag	GA	**20TL52**
	150 ft.	7500 lb.	750 lb.	Orange/Yellow	Bag	GA	**20TL61**
	150 ft.	8200 lb.	820 lb.	Red/Yellow Checker	Bag	GA	**20TL68**
	150 ft.	8200 lb.	820 lb.	Black Checker/Yellow	Bag	GA	**20TL69**
	600 ft.	7300 lb.	730 lb.	Red/White Tracer	Spool	GA	**20TL48**
	600 ft.	7300 lb.	730 lb.	Orange/Red/Yellow	Spool	GA	**20TL43**
5⁄8"	120 ft.	11,000 lb.	1100 lb.	Red/White Tracer	Spool	GA	**20TL59**
	150 ft.	11,000 lb.	1100 lb.	Red/White Tracer	Spool	GA	**20TL62**
Double Braid							
½"	150 ft.	7500 lb.	750 lb.	Blue/Neon Green/Yellow	Bag	All Gear	**3VAH2**
	600 ft.	7500 lb.	750 lb.	Blue/Neon Green/Yellow	Reel	All Gear	**12A616**
Throw Line							
Hollow Braid							
1⁄16"	180 ft.	450 lb.	66 lb.	Safety Orange	Spool	All Gear	**3LAW1**
	1000 ft.	450 lb.	90 lb.	Safety Orange	Spool	All Gear	**12A632**
5⁄64"	180 ft.	650 lb.	130 lb.	Safety Orange	Spool	All Gear	**12A633**
	1000 ft.	650 lb.	130 lb.	Safety Orange	Spool	All Gear	**12A634**
1⁄8"	200 ft.	250 lb.	50 lb.	Neon Orange/Yellow	Spool	All Gear	**3LAW2**
	1000 ft.	250 lb.	50 lb.	Neon Orange/Yellow	Spool	All Gear	**12A631**

No. 40L923



STERLING

Marathon Dynamic Rope

11mm rope is constructed with a thick sheath for long-lasting performance. Designed for military, rope course, high-abuse guiding, work access, rigging, and industrial safety applications.

Rope Dia.	L	Working Load Limit	Color	Item No.
7⁄16"	164 ft.	310 lb.	Purple	**40L923**
7⁄16"	196 ft.	310 lb.	Purple	**40L924**



PETZL

Kernmantle Ropes

- Meet NFPA 1983

Vector 12.5mm static rope is designed for fire rescue teams, with low stretch and large diameter for strength and handling when manipulating heavy loads, even in conditions such as water, dust, and mud.

L	Item No.
200 ft.	**405F65**
600 ft.	**405F68**

No. 6TEL1



PETZL

Anchor Straps and Foot Loop

Anchor straps have sewn webbing loop for easy anchoring. Foot loop features adjustable webbing; underfoot strap resists abrasion and is slightly rigid to allow easy access.

Description	L	Item No.
Anchor Straps	23⅜"	**6TEK9**
	47¼"	**6TEK7**
	59"	**6TEK8**
Foot Loop	—	**6TEL1**



POLAR PLASTICS INC.

Plastic Construction Film

High-strength polyethylene resin film.

Thickness	W	L	Color	Item No.
1 mil	9 ft.	250 ft.	Clear	15J251
1.5 mil	8 ft. 4"	200 ft.	Clear	4JX91
1.5 mil	10 ft.	200 ft.	Clear	21XR49
1.5 mil	12 ft.	200 ft.	Clear	21XR50
1.5 mil	20 ft.	200 ft.	Clear	21XR48
2 mil	10 ft.	100 ft.	Clear	15J255
3 mil	6 ft.	100 ft.	Clear	21XR51
3 mil	8 ft. 4"	100 ft.	Clear	15J262
3 mil	10 ft.	25 ft.	Clear	15J252
3 mil	10 ft.	100 ft.	Clear	15J256
3 mil	12 ft.	100 ft.	Clear	15J257
3 mil	20 ft.	100 ft.	Clear	15J260
4 mil	6 ft.	100 ft.	Clear	15J261
4 mil	6 ft.	100 ft.	Black	21XR58
4 mil	6 ft.	100 ft.	White	21XR59
4 mil	8 ft. 4"	25 ft.	Clear	21XR52
4 mil	8 ft. 4"	100 ft.	Clear	4JX92
4 mil	8 ft. 4"	100 ft.	Black	21XR53
4 mil	8 ft. 4"	100 ft.	White	21XR54
4 mil	10 ft.	100 ft.	Clear	4JX87
4 mil	10 ft.	100 ft.	Black	6FLZ4
4 mil	10 ft.	100 ft.	White	6FLZ6
4 mil	12 ft.	100 ft.	Clear	15J258
4 mil	12 ft.	100 ft.	Black	21XR55
4 mil	12 ft.	100 ft.	White	21XR56
4 mil	12 ft.	100 ft.	Clear	21XR64
4 mil	16 ft.	100 ft.	Clear	15J259
4 mil	20 ft.	100 ft.	Black	4JX85
4 mil	20 ft.	100 ft.	Clear	4JX89
4 mil	20 ft.	100 ft.	White	21XR57
4 mil	20 ft.	50 ft.	Clear	21XR65
6 mil	8 ft. 4"	100 ft.	Clear	15J263
6 mil	8 ft. 4"	100 ft.	Black	21XR60
6 mil	8 ft. 4"	100 ft.	White	21XR61
6 mil	10 ft.	100 ft.	Black	6FLZ5
6 mil	10 ft.	100 ft.	White	6FLZ7
6 mil	10 ft.	100 ft.	Clear	4JX88
6 mil	12 ft.	100 ft.	Clear	21XR62
6 mil	20 ft.	100 ft.	Black	4JX86
6 mil	20 ft.	100 ft.	Clear	4JX90
10 mil	20 ft.	100 ft.	Clear	21XR63

Plasticover™
TRIMACO

Carpet Protection Film and Applicators

CARPET PROTECTION FILM

Self-adhesive film applies quickly and removes easily to protect carpets during construction, renovation, and event traffic. Nonslip surface grips carpet firmly to promote safety. Tear-resistant film can be left in place for up to 60 days. Clear color.



Carpet Film Applicator w/Film

ADJUSTABLE FILM APPLICATORS

Roller design allows for fast application. Steel construction adjusts to fit various sizes.

W	Brand	200 ft. Item No.	500 ft. Item No.
Carpet Protection Film			
24"	Plasticover	2NYH7	2NYJ1
36"	Plasticover	2NYH9	2NYH6
48"	Plasticover	—	2NYH8
Carpet Film Applicator			
Adjustable, For Use with 24", 30" or 36" Rolls	Trimaco	52MU69	
Adjustable, For Use With 24", 36", and 48" Rolls	Plasticover	18F254	

Americover
PROTECTION FROM THE GROUND UP
SUPPLIER DIVERSITY

String-Reinforced Construction Film

High-strength virgin polyethylene resin film reinforced with polyester scrim for enhanced tear resistance.



Thickness	W	L	Color	Item No.
String Reinforced Poly Sheeting				
6 mil	12 ft.	100 ft.	Clear	6HHZ7
6 mil	20 ft.	100 ft.	Clear	6HHZ8
NFPA Certified Fire-Retardant Poly Sheeting				
6 mil	12 ft.	100 ft.	Off-White	6HHZ9
6 mil	20 ft.	100 ft.	Off-White	6HJA0



Americover
PROTECTION FROM THE GROUND UP
SUPPLIER DIVERSITY

Antistatic Fire-Retardant Poly Sheeting

Superior dust containment for healthcare environments. White color. Sold on a roll. Fire Standards are printed in red directly on the film. Meet NFPA 701-2015 Standards.

Thickness	W	L	Item No.
6 mil	12 ft.	100 ft.	4FPK8
6 mil	20 ft.	100 ft.	4FPK9

Plasticover™

Floor Protection Mats

Sticky surface removes dirt and debris from shoes to eliminate damage to interior surfaces. When the mat is dirty, the top layer can be removed to expose a fresh surface. Adhesive backing sticks to clean, smooth floors to stay in place. Each mat has 30 numbered sheets and are packed 2 per box.

FLOOR PROTECTION MAT BASE

Recommended base provides a secure mounting surface for the mats in dusty conditions and enables portability to multiple locations. Nonskid backing.



No. 45MT84 Mat shown on No. 45MT87 Base

Material	W	L	Color	Item No.
Mats				
Polyethylene	18"	36"	Blue	45MT86
Polyethylene	18"	36"	White	45MT85
Polyethylene	24"	36"	Blue	45MT84
Polyethylene	24"	36"	White	45MT83
Base				
HDPE	25"	37"	White	45MT87

Americover
PROTECTION FROM THE GROUND UP
SUPPLIER DIVERSITY

Fire-Retardant Deck Covers

Heavy-duty, reusable polyethylene sheeting protects floors and decks during construction, refit, and new build. Film can easily be cut, sized, and taped down in place. Smooth bottom side eliminates pattern imprinting as can occur with embossed films. Matte side is antislip and antiskid. Meet NFPA 701.



Thickness	W	L	Item No.
14 mil	36"	150 ft.	6DLR6
30 mil	36"	100 ft.	6DLR7

Americover
PROTECTION FROM THE GROUND UP
SUPPLIER DIVERSITY

Rapid Wall Cover

Clings to surfaces. Quick-and-easy to install because the tape is already attached to the poly. Replaces the traditional tape and poly method.



Thickness	W	L	Item No.
2 mil	10 ft.	100 ft.	39J395



Floor Protection Film



Temporary Floor Protection Board



Reinforced Kraft Paper

Plasticover™ TRIMACO Floor and Multisurface Protection

Floor Protection Film—Temporary, self-adhesive film protects multiple surfaces including tile, vinyl, hardwood, VCT, laminates, marble, granite, countertops, and factory-finished hardwood. Applies quickly and removes easily. Can be left in place for up to 60 days.

Reinforced Kraft Paper—Nonadhesive, waterproof, tear-resistant paper can be taped down to protect virtually any surface. Heavy-duty kraft paper is bonded with polyethylene and reinforced threading provides durability for long-term usage.

Temporary Floor Protection Board—Nonadhesive fiber paper board protects against scratches and impact. Recycled content may qualify builder for LEED points.

W	L	Color	Brand	Item No.
Floor Protection Film				
24"	200 ft.	Blue	Plasticover	**2NYJ3**
30"	100 ft.	White	Plasticover	**45MT88**
30"	100 ft.	Gray	Plasticover	**45MT89**
36"	200 ft.	Blue	Plasticover	**4GHW8**
Reinforced Kraft Paper				
36"	200 ft.	Brown	Plasticover	**5NAL7**
Temporary Floor Protection Board				
38"	100 ft.	Brown	Trimaco	**52MU68**



Red Rosin
No. 30KE55



Brown Rosin
No. 45MT90

Plasticover™ Rosin Paper

This high-quality, single-ply protection paper is commonly used to protect floors, windows, counter tops, fixtures, and many other surfaces during construction and remodeling. It can be applied as an inner lining, "sheathing paper" in walls, roofing, or wood flooring applications to protect against wind and dust infiltration, while minimizing squeaks.

Available in standard red, brown (for dye leakage concerns in wet applications) and heavy-duty brown, which is up to 50% thicker for your heaviest jobs.

W	L	Color	Item No.
Rosin Paper			
36"	200 ft.	Red	**30KE55**
36"	200 ft.	Brown	**45MT90**
Heavy-Duty Rosin Paper			
36"	150 ft.	Brown	**45MT91**



Mesh Tarps

GA GRAINGER APPROVED

Windscreen Fence and Mesh Tarps

Knitted polyethylene offers 95% shade while allowing air passage. Mesh tarps act as windscreens. Feature reinforced wide web binding and aluminum grommets every 24" including top, bottom, and sides. 10 mil thickness, 5.4 oz. per sq. yd. polyester.

Cut Size	▶CHOOSE: Color	Item No.
Windscreen Fence		
4 x 165 ft.	Black, Tan	**G8805**
Mesh Tarps		
6 x 8 ft.	Black, Green, Tan	**G8814**
8 x 12 ft.	Black, Green, Tan	**G8806**
10 x 12 ft.	Black, Green, Tan	**G8815**
10 x 20 ft.	Black, Green, Tan	**G8816**
10 x 24 ft.	Black, Tan	**G8807**
10 x 30 ft.	Black, Tan	**G8808**
12 x 14 ft.	Black, Green, Tan	**G8809**
12 x 16 ft.	Black, Green	**G8810**
12 x 20 ft.	Black, Green, Tan	**G8811**
12 x 24 ft.	Black, Green, Tan	**G8817**
14 x 24 ft.	Black	**G8812**
20 x 20 ft.	Black, Green, Tan	**G8813**



No. 5WUF1

GA GRAINGER APPROVED

Hay Covers

12 mil thick polyethylene tarps resist water, mildew, and UV rays to protect hay bales from harmful weather. Heat-sealed seams with brass grommets. Silver/black color.

Cut Size	Finished Size	Item No.
15 x 54 ft.	14 ft. 6" x 53 ft. 8"	**5WUF1**
20 x 48 ft.	19 ft. 6" x 47 ft. 8"	**5WUF2**
25 x 48 ft.	24 ft. 6" x 47 ft. 8"	**5WUF3**
30 x 48 ft.	29 ft. 6" x 47 ft. 8"	**5WUF4**
35 x 48 ft.	34 ft. 6" x 47 ft. 8"	**5WUF5**
45 x 48 ft.	44 ft. 6" x 47 ft. 8"	**5WUF6**
48 x 55 ft.	54 ft. 6" x 47 ft. 8"	**5WUF7**
60 x 48 ft.	59 ft. 6" x 47 ft. 8"	**5WUF8**



No. 2HCW5



No. 3ZRT8

GA GRAINGER APPROVED

Machine and Pallet Covers

Cotton sheeting is coated with plastisol, allowing it to breathe while remaining water-resistant. Perimeter is roll-hemmed with magnets at the corners. Machine covers are gray color. Pallet covers are silver/black color.

Finished Size	Item No.
HTC Machine Cover Tarp	
2 ft. 3" x 3 ft.	**2HCW3**
3 ft. x 4 ft. 8"	**2HCW2**
4 ft. 8" x 6 ft.	**2HCW4**
6 ft. x 9 ft. 4"	**2HCW5**
Pallet Cover	
3 ft. x 4 ft. x 4 ft.	**3ZRT8**
3 ft. x 4 ft. x 6 ft.	**3ZRT9**
4 ft. x 4 ft. x 4 ft.	**3ZRU1**
4 ft. x 4 ft. x 6 ft.	**3ZRU2**

Tarps

GA GRAINGER APPROVED MAURITZON

STANDARD-DUTY POLYETHYLENE

- Resist UV rays, mildew, and tears
- Rustproof aluminum grommets approximately every 36"

Made from high-density 10 x 10 weave (1000 denier). Lightweight fabric weighs only 3.4 oz. per sq. yd., wet or dry. Seams are heat-sealed with polyethylene rope-lined hems.

Flame-resistant style will not support combustion.

HEAVY-DUTY POLYETHYLENE

- Superior resistance to UV rays, water, mildew, and tears
- Rustproof aluminum grommets approximately every 18"
- Reinforced corners

Made from super-strong 5.4 oz. per sq. yd. heavy-gauge material. Durable 14 x 14 weave (1000 denier).

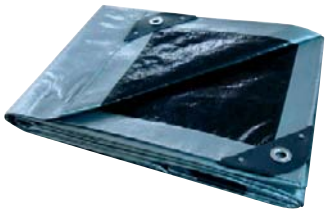
WATERPROOF VINYL

- Superior resistance to UV rays, tears, and water
- Nickel-plated brass and D-ring grommets approximately every 24"

Lighter than canvas and nonabsorbent. Made from 13 oz. per sq. yd. material and suitable for long-term outdoor use covering trucks, boats, and equipment.

Fire-resistant style will not support combustion.

Heavy-duty models are made from 18 oz. per sq. yd. material for premium resistance to abrasion and punctures.



No. 5WTN5



No. 5WTT7



No. 5WUE7

Tarp Strength	Cut Size	Finished Size	Thickness	▶CHOOSE: Color	Brand	Item No.
Waterproof Polyethylene						
Flame-Resistant, Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	5.1 mil	Blue	GA	5WTL9
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	5.1 mil	White	GA	5WTN0
	10 x 20 ft.	9 ft. 4" x 19 ft. 6"	5.1 mil	Blue	GA	2ZJ47
	10 x 20 ft.	9 ft. 4" x 19 ft. 6"	5.1 mil	White	GA	5WTN1
	15 x 20 ft.	14 ft. 2" x 19 ft. 6"	5.1 mil	White	GA	5WTN2
	15 x 20 ft.	14 ft. 2" x 19 ft. 6"	5.1 mil	Blue	GA	2ZJ48
	20 x 20 ft.	19 ft. x 19 ft. 6"	5.1 mil	Blue	GA	2ZJ49
	20 x 20 ft.	19 ft. x 19 ft. 6"	5.1 mil	White	GA	5WTN3
	20 x 30 ft.	19 ft. x 29 ft. 4"	5.1 mil	Blue	GA	2ZJ50
	20 x 30 ft.	19 ft. x 29 ft. 4"	5.1 mil	White	GA	5WTN4
Grease-Resistant, Mildew-Resistant						
Heavy Duty	10 x 12 ft.	9 ft. 9" x 11 ft. 8"	12 mil	Silver/Black	Mauritzon	8C604
	12 x 15 ft.	11 ft. 8" x 14 ft. 9"	12 mil	Silver/Black	Mauritzon	8UKW5
	12 x 20 ft.	11 ft.8" x 19 ft. 9"	12 mil	Silver/Black	Mauritzon	9EVK9
	12 x 24 ft.	11 ft. 8" x 23 ft. 9"	12 mil	Silver/Black	Mauritzon	9T025
Mildew-Resistant, Tear-Resistant						
Standard Duty	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	3.2 mil	Blue	GA	22JC25
	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	3.2 mil	Blue	GA	22JC26
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	3.2 mil	Blue	GA	22JC27
	12 x 16 ft.	—	3.2 mil	Blue	GA	22JC28
	15 x 20 ft.	—	3.2 mil	Blue	GA	22JC29
	20 x 30 ft.	—	3.2 mil	Blue	GA	22JC30
	25 x 40 ft.	—	3.2 mil	Blue	GA	22JC31
	30 x 50 ft.	—	3.2 mil	Blue	GA	22JC32
	40 x 60 ft.	—	3.2 mil	Blue	GA	22JC33
Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8818
	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8819
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8820
	12 x 16 ft.	11 ft. 4" x 15 ft. 6"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8821
	12 x 20 ft.	11 ft. 8" x 19 ft. 6"	3/16"	Orange	GA	5WUE7
	12 x 24 ft.	11 ft. 8" x 23 ft. 6"	1/4"	Orange	GA	5WUF0
	12 x 25 ft.	11 ft. 4" x 24 ft. 4"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8822
	15 x 20 ft.	14 ft. 2" x 19 ft. 6"	5.1 mil	Blue Top/Green Back, Transparent, Brown/Black	GA	G8823
	20 x 20 ft.	19 ft. x 19 ft. 6"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8825
	20 x 30 ft.	19 ft. x 29 ft. 4"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8824
	25 x 40 ft.	23 ft. 10" x 39 ft. 4"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8826
	30 x 50 ft.	28 ft. 10" x 49 ft. 2"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8827
	40 x 60 ft.	38 ft. 6" x 59 ft.	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8828
	50 x 80 ft.	48 ft. x 79 ft. 4"	5.1 mil	Blue/Green, Brown/ Black, Transparent	GA	G8829
Heavy Duty	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	10.5 mil	Silver/Black	GA	2ZJ45
	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	10.5 mil	Silver/Black	GA	5WTN5
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	10.5 mil	Silver/Black	GA	4VZ56
	12 x 16 ft.	11 ft. 4" x 15 ft. 6"	10.5 mil	Silver/Black	GA	2ZJ46
	12 x 20 ft.	11 ft. 4" x 19 ft. 6"	10.5 mil	Silver/Black	GA	5WTN6
	12 x 25 ft.	11 ft. 4" x 24 ft. 4"	10.5 mil	Silver/Black	GA	5WTN7
	15 x 30 ft.	14 ft. 2" x 29 ft. 4"	10.5 mil	Silver/Black	GA	5WTN8
	16 x 20 ft.	15 ft. 2" x 19 ft. 6"	10.5 mil	Silver/Black	GA	4VZ57
	20 x 20 ft.	19 ft. x 19 ft. 6"	10.5 mil	Silver/Black	GA	5WTN9
	20 x 30 ft.	19 ft. x 29 ft. 4"	10.5 mil	Silver/Black	GA	4VZ58
	40 x 40 ft.	38 ft. 6" x 39 ft. 4"	10.5 mil	Silver/Black	GA	5WTP0
Waterproof Vinyl						
Flame-Resistant, Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	15 mil	Black/Green	GA	5WTW5
	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	15 mil	White	GA	5WTW6
	20 x 20 ft.	19 ft. x 19 ft. 6"	15 mil	White	GA	5WTW9
	20 x 30 ft.	19 ft. x 29 ft. 4"	15 mil	White	GA	5WTX0

Tarp Strength	Cut Size	Finished Size	Thickness	▶CHOOSE: Color	Brand	Item No.
Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	15 mil	Black/Green	GA	2ZJ56
	6 x 10 ft.	5ft. 6" x 9ft. 6"	15 mil	Black/Green	GA	2ZJ57
	10 x 10 ft.	9 ft. 4" x 9 ft. 6"	15 mil	Black/Green	GA	2ZJ58
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	15 mil	Black/Green	GA	2ZJ59
	12 x 16 ft.	11 ft. 4" x 15 ft. 6"	15 mil	Black/Green	GA	2ZJ60
	16 x 20 ft.	15 ft. 2" x 19 ft. 6"	15 mil	Black/Green	GA	2ZJ61
	20 x 20 ft.	19 ft. x 19 ft. 6"	15 mil	Black/Green	GA	2ZJ62
	20 x 30 ft.	19 ft. x 29 ft. 4"	15 mil	Black/Green	GA	2ZJ63
Heavy Duty	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	20 mil	Black	GA	5WTX1
	6 x 10 ft.	5 ft. 6" x 9 ft. 6"	20 mil	Black, Tan	GA	G8845
	8 x 10 ft.	7 ft. 4" x 9 ft. 6"	20 mil	Black, Tan	GA	G8846
	10 x 10 ft.	9 ft. 4" x 9 ft. 6"	20 mil	Black, Tan	GA	G8847
	10 x 12 ft.	9 ft. 6" x 11 ft. 4"	20 mil	Black, Tan	GA	G8848
	12 x 16 ft.	11 ft. 4" x 15 ft. 6"	20 mil	Black, Tan	GA	G8849
	12 x 20 ft.	11 ft. 4" x 19 ft. 6"	20 mil	Black	GA	5WTY9
	12 x 24 ft.	11 ft. 4" x 23 ft. 6"	20 mil	Black, Tan	GA	G8850
	12 x 25 ft.	24 ft. 6" x 11 ft. 4"	20 mil	Black	GA	5WTZ1
	14 x 20 ft.	19 ft. 6" x 13 ft. 4"	20 mil	Black	GA	5WTZ0
	14 x 25 ft.	24 ft. 6" x 13 ft. 4"	20 mil	Black	GA	5WTZ2
	16 x 20 ft.	15 ft. 2" x 19 ft. 6"	20 mil	Black, Tan	GA	G8851
	20 x 30 ft.	19 ft. x 29 ft. 4"	20 mil	Black	GA	G8852
	20 x 30 ft.	—	20 mil	Tan	GA	G8852
Water Resistant Cotton Canvas						
Flame-Resistant, Mildew-Resistant						
Standard Duty	4 x 8 ft.	3 ft. 6" x 7 ft. 6"	20 mil	Green	GA	10P540
	4 x 12 ft.	3 ft. 6" x 11 ft. 6"	20 mil	Green	GA	10P541
	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	20 mil	Green	GA	10P542
	6 x 10 ft.	5 ft. 6" x 9 ft. 6"	20 mil	Green	GA	10P543
	8 x 10 ft.	7 ft. 6" x 9 ft. 6"	20 mil	Green	GA	10P544
	8 x 16 ft.	7 ft. 6" x 15 ft. 6"	20 mil	Green	GA	10P545
	8 x 20 ft.	7 ft. 6" x 19 ft. 6"	20 mil	Green	GA	10P546
	10 x 12 ft.	9 ft. 6" x 11 ft. 6"	20 mil	Green	GA	10P547
	10 x 20 ft.	9 ft. 6" x 19 ft. 6"	20 mil	Green	GA	10P548
	12 x 16 ft.	11 ft. 6" x 15 ft. 6"	20 mil	Green	GA	10P549
	15 x 20 ft.	14 ft. 6" x 19 ft. 6"	20 mil	Green	GA	10P550
	16 x 24 ft.	15 ft. 6" x 23 ft. 6"	20 mil	Green	GA	10P551
	20 x 20 ft.	19 ft. 6" x 19 ft. 6"	20 mil	Green	GA	10P552
	20 x 30 ft.	19 ft. 6" x 29 ft. 6"	20 mil	Green	GA	10P553
Mildew-Resistant, UV-Resistant						
Heavy Duty	4 x 8 ft.	3 ft. 6" x 7 ft. 6"	30 mil	Olive Green	GA	5WTT7
	4 x 12 ft.	3 ft. 6" x 11 ft. 6"	30 mil	Olive Green	GA	5WTT8
	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	30 mil	Olive Green	GA	5WTT9
	6 x 10 ft.	5 ft. 6" x 9 ft. 6"	30 mil	Olive Green	GA	5WTU0
	8 x 10 ft.	7 ft. 6" x 9 ft. 6"	30 mil	Olive Green	GA	5WTU1
	8 x 16 ft.	7 ft. 6" x 15 ft. 6"	30 mil	Olive Green	GA	5WTU2
	8 x 20 ft.	7 ft. 6" x 19 ft. 6"	30 mil	Olive Green	GA	5WTU3
	10 x 12 ft.	9 ft. 6" x 11 ft. 6"	30 mil	Olive Green	GA	5WTU4
	10 x 20 ft.	9 ft. 6" x 19 ft. 6"	30 mil	Olive Green	GA	5WTU5
	12 x 16 ft.	11 ft. 6" x 15 ft. 6"	30 mil	Olive Green	GA	5WTU6
	15 x 20 ft.	14 ft. 6" x 19 ft. 6"	30 mil	Olive Green	GA	5WTU7
	16 x 24 ft.	15 ft. 6" x 23 ft. 6"	30 mil	Olive Green	GA	5WTU8
	20 x 20 ft.	19 ft. 6" x 19 ft. 6"	30 mil	Olive Green	GA	5WTU9
	20 x 30 ft.	19 ft. 6" x 29 ft. 6"	30 mil	Olive Green	GA	5WTV0
Water Resistant Polyester Coated Cotton Canvas						
Mildew-Resistant						
Standard Duty	4 x 8 ft.	3 ft. 6" x 7 ft. 6"	15 mil	Jade Green	GA	10P554
	4 x 12 ft.	3 ft. 6" x 11 ft. 6"	15 mil	Jade Green	GA	10P555
	6 x 8 ft.	5 ft. 6" x 7 ft. 6"	15 mil	Jade Green	GA	10P556
	6 x 10 ft.	5 ft. 6" x 9 ft. 6"	15 mil	Jade Green	GA	10P557
	8 x 10 ft.	7 ft. 6" x 9 ft. 6"	30 mil	Jade Green	GA	10P558
	8 x 20 ft.	7 ft. 6" x 19 ft. 6"	15 mil	Jade Green	GA	10P560
	10 x 12 ft.	9 ft. 6" x 11 ft. 6"	15 mil	Jade Green	GA	10P561
	10 x 20 ft.	9 ft. 6" x 19 ft. 6"	15 mil	Jade Green	GA	10P562
	12 x 16 ft.	11 ft. 6" x 15 ft. 6"	15 mil	Jade Green	GA	10P563
	15 x 20 ft.	14 ft. 6" x 19 ft. 6"	15 mil	Jade Green	GA	10P564
	16 x 24 ft.	15 ft. 6" x 23 ft. 6"	15 mil	Jade Green	GA	10P565
	20 x 20 ft.	19 ft. 6" x 19 ft. 6"	30 mil	Jade Green	GA	10P566
	20 x 30 ft.	19 ft. 6" x 29 ft. 6"	15 mil	Jade Green	GA	10P567



KEEPER PERFORMANCE ENGINEERED. GOLDLINE® GA GRAINGER APPROVED BULK-N-STRAP SUPPLIER DIVERSITY®

Bungee Cords and Hooks

EPDM Tarp Straps—For heavy-duty strapping jobs. Straps stretch to approximately 1½ times their original length. Extra reinforcement at hook ends. Zinc-plated steel hooks.

Industrial Bungee Cords—Work well in most tarp applications and with heavier loads. Nylon-coated cords have hardened hooks with yellow dichromate finish.

Adjustable Bungee Cord—For light-duty bundling or tie-down assists. Safety tab on polycarbonate hook prevents slipping out of tarp grommets. ¼'' dia. Length adjustable up to 36".

Bungee Cord Rolls—Multicolor bungee cords are general purpose. White cord is nylon-wrapped for greater durability

Bungee Hooks—Attach easily to make or repair cords. Includes clamping wire. Adjustable hooks require no tools to install. See hook descriptions for cord sizes.

Description	L	Color	Brand	Item No.
Adjustable Tarp Straps				
EPDM Tarp Strap	24"	Black	Keeper	**39J421**
	36"	Black	Keeper	**39J422**
Tarp Straps				
EPDM Tarp Strap	10"	Black	Goldline	**14J847**
	15"	Black	Goldline	**14J848**
	21"	Black	Goldline	**14J849**
	31"	Black	Goldline	**14J850**
	41"	Black	Goldline	**14J851**
Bungee Strap Assortment				
Assorted EPDM Tarp Straps, (4) 10" Strap, (2) 15" Strap, (2) 21" Strap, and (2) 31" Strap	31"	Black	Goldline	**14J852**
Bungee Cords				
Industrial Bungee Cord	13"	Black	GA	**4HXD6**
	18"	Black	GA	**4HXD7**
	24"	Black	GA	**4HXE2**
	32"	Black	GA	**4HXD8**
	48"	Black	GA	**4HXE1**
Adjustable Bungee Cord	36"	Multicolored	GA	**4HXC7**
Bungee Cord Rolls				
3/16" Bungee Width	100 ft.	White/Black Tracer	Bulk-Strap	**14A763**
¼" Bungee Width	100 ft.	White/Black Tracer	Bulk-Strap	**14A764**
5/16" Bungee Width	100 ft.	White/Black Tracer	Bulk-Strap	**14A765**
	250 ft.	Multicolored	GA	**4HXC8**
3/8" Bungee Width	100 ft.	White/Black Tracer	Bulk-Strap	**14A766**
	300 ft.	Multicolored	GA	**4HXC9**
½" Bungee Width	100 ft.	White/Black Tracer	Bulk-Strap	**14A767**

Material	Description	Color	Brand	Item No.	Pkg. Qty.
Bungee Hooks					
Hardened Steel	For Use With 5/16" dia. Cord	Black	GA	**4HXD2**	50
Dichromate Steel	For Use With 3/16" dia. Cord	Silver	Bulk-Strap	**14A751**	10
	For Use With ¼" dia. Cord	Silver	Bulk-Strap	**14A752**	10
	For Use With 5/16" dia. Cord	Silver	Bulk-Strap	**14A753**	10
	For Use With 3/8" dia. Cord	Silver	Bulk-Strap	**14A754**	4
	For Use With ½" dia. Cord	Silver	Bulk-Strap	**14A755**	4
Stainless Steel	For Use With 3/16" dia. Cord	Silver	Bulk-Strap	**14A756**	10
	Includes C-Ring - For Use With ¼" dia. Cord	Silver	Bulk-Strap	**14A757**	10
	Includes C-Ring - For Use With 5/16" dia. Cord	Silver	Bulk-Strap	**14A758**	10
	Includes C-Ring - For Use With 3/8" dia. Cord	Silver	Bulk-Strap	**14A759**	4
	Includes C-Ring - For Use With ½" dia. Cord	Silver	Bulk-Strap	**14A760**	4
Adjustable Bungee Hooks					
Co-Polymer	1 1/4" Width - For Use With 3/16" or ¼" dia. Cord	Black	Bulk-Strap	**14A761**	10
	1 3/4" Width - For Use With 5/16" or 3/8" dia. Cord	Black	Bulk-Strap	**14A762**	10
Polycarbonate	Adjustable Bungee Hooks, For Use With ¼ or 3/8" dia. Cord	Black	GA	**4HXD1**	50
Bungee Cord Assortment					
Nylon/Rubber	Assorted Bungee Cords, 2 Each of 13, 18, 24, 30, and 36"	Multicolored	GA	**4HXF7**	10

THE BETTER BUNGEE™

Rope, Hook Ends, and Replacement Hooks


No. J4694

Solid Core Urethane Stretch Rope—Industrial strength, high-tech urethane stretch rope is a superior replacement to shock cord (no cloth or elastic) will not break, rot, or become brittle and maintains its stretch even under extreme weather conditions. Safely stretches two times its length. Make custom length bungee cords and cargo webs using the adjustable nylon hook ends.

Adjustable Nylon Hook Ends—Patented adjustable hook ends create safer and stronger custom bungee cords. Match hook sizes to rope size. ¼" hook has a 102-lb. break rating, 5/16" has a 140-lb. break rating.

Steel Triangular Replacement Strap Hooks—0.188" (3/16") galvanized or stainless steel hook with triangular S end, made for safer strap. Gale break rating of 250 lb. Stainless steel break rating of 225 lb.

Description	L	Dia.	▶CHOOSE: Color	Item No.
Solid Core Polyurethane Stretch Rope				
Bungee Cord Roll	50 ft.	¼"	Black, Military Green	**J4694**
Bungee Cord Roll	50 ft.	5/16"	Black, Military Green	**J4695**
Bungee Cord/Strap Hook Ends				
Adjustable Nylon Hook End, For ¼" Rope	4"	—	Black	**46CC08**
Adjustable Nylon Hook End, For 5/16" Rope	4"	—	Black	**46CC09**
Triangular S Hook, Galvanized Steel	2½"	3/16"	Gray	**46CC02**
Triangular S Hook, Stainless Steel	2½"	3/16"	Gray	**46CC03**


No. 1DJN6

RopeRATCHET TIE-DOWN

Rope Tie-Downs

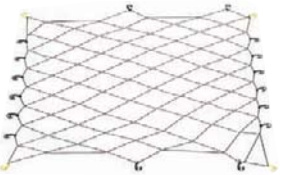
Secure a wide variety of loads quickly and easily.

Rope Ratchets—Keep rope locked in place for a firm hold; no webbing or bungee cords required. Thumb-lever provides easy release. Ratchets are made of 33% glass-filled nylon with interior of die-cast zinc and stainless steel springs. Hooks are zinc-plated steel.

L	Dia.	Working Load Limit	Item No.
Rope Ratchets w/ Polyester Rope			
6 ft.	1/8"	75 lb.	**1DJN7**
8 ft.	3/16"	110 lb.	**1DJN6**
Rope Ratchets w/ Polypropylene Rope			
8 ft.	¼"	150 lb.	**1DJN8**
15 ft.	¼"	150 lb.	**1DJN9**
8 ft.	3/8"	250 lb.	**1DJP2**
15 ft.	3/8"	250 lb.	**1DJP3**
8 ft.	½"	500 lb.	**1DJP4**
15 ft.	½"	500 lb.	**1DJP5**
Ratchets Only			
¼" Ratchet			**1DJP1**
3/8" Ratchet			**1DJP6**


No. 2ZA95


No. 2ZA97


No. 2ZB14

Bungees and Cargo Nets

Master Lock

E-Z Grip™ Bungees—Improved grip on hook for enhanced operator safety.

Tarp Lok™ Bungee—Hooks lock in place for securing loads through eyelets or rings.

SteelCor™—Steel-reinforced polypropylene stretch bungees have an offset hook, and is adjustable from 20" to 40". Can be used for a wide range of applications.

Cargo Nets—Can be used for securing cargo in truck beds. Include storage bag. 60"W.

Bungee Organizer Kits—Cords wrapped around a lightweight frame to keep them untangled and accessible. No. 2ZB13 includes 10", 18", 24", 32", and 40" cords. No. 2ZA94 includes 18", 24", 32", and 40" cords.

Description	Bungee Length	Color	Item No.
E-Z Grip™ Bungee	24"	Black	**2ZA95**
	32"	Black	**2ZA96**
Tarp Lok™ Bungee	24"	Black	**2ZA97**
SteelCor™	40"	Gray	**2ZB12**
Cargo Net	—	Black	**2ZB14**
Bungee Organizer Kit - 10 Count SteelCor™	40", 32", 24", 18"	Gray	**2ZB13**
Bungee Organizer Kit - 15 Count Twin Wire Assortment	40"	Multicolored	**2ZA94**


No. J4678


No. J4682


No. J4683

THE BETTER BUNGEE™


No. J4681


No. 46CA99

Polyurethane Bungee Straps

Industrial strength polyurethane and heavy-duty hook ends make safer, stronger bungee cords and straps. High-tech, lightweight material will not break, rot, or become brittle when exposed to harsh weather elements, oils, or fuels.

Cords—Glass-filled nylon hooks are overmolded into a one-piece cord for superior performance and durability. Max. stretch is two times length. Hook ends have a 180# break rating. Synch cord has loop on one end and hook on the other.

Straps—High-tech industrial strength urethane straps have three types of hook ends to chose from: 2 0.188 (3.16) galvanized with a 250# break rating, stainless steel with a 225# break rating (both have triangular S-hook shapes) or fiber-filled nylon overmolded ends (rated at 180#) for nonmarring applications. Two times max. stretch. The slotted strap is very versatile as it will adjust to just about any size and comes with galvanized or overmolded nylon ends.

L	▶CHOOSE: Color	Item No.
Bungee Cords		
Nylon J-Hook End		
12"	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4678
18"		J4679
24"		J4680
Nylon J-Hook, Loop End		
30"	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4681
Bungee Straps		
Galvanized Steel S-Hook End		
6"	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4682
18"		J4685
24"		J4688
36"		J4691
Stainless Steel S-Hook End		
12"	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4684
18"		J4687
24"		J4690
36"		J4693
Nylon J-Hook End		
12"	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4683
18"		J4686
24"		J4689
36"		J4692
Bungee Straps with Slots		
Stainless Steel S-Hook End		
36"	Black	46CA99
Nylon J-Hook End		
36"	Black	46CC01

BULK STRAP

Custom Strapping, Buckles, and Fittings

CUSTOM STRAPPING

Create custom-length straps with no stitching required.

Nylon—Strong and flexible material has good elasticity and recovery. Absorbs moisture, dries easily, and is mildew- and insect-resistant.

Polypropylene—Material features excellent chemical resistance and low moisture absorption. Floats and is resistant to mildew and abrasion. For lightweight applications.

Polyester—Durable material is quick drying. Resists most chemicals, stretching and shrinking, wrinkles, mildew, and abrasion. For medium- and heavy-duty applications.

BUCKLES AND FITTINGS

Metal or plastic attach without sewing to make finished assemblies.

ANCHOR PLATES

Secure webbing to a solid surface. 1" plates have ¼" bolt hole. 1½" to 2" plates have ⅜" bolt hole. Webbing slots will accommodate 1", 1.5", and 2" webbing, offset at 128°.


No. G2350
(Buckle Not Included)


No. G2350


No. 4TLP4


No. 4TLP8


No. 4TLT4


No. 4TLR8


No. 14A768

W	▶CHOOSE: Color	Length 27 ft. Item No.	50 ft. Item No.	51 ft. Item No.	102 ft. Item No.	150 ft. Item No.	300 ft. Item No.
Custom Strapping							
Nylon							
¾"	Black, Blue, Orange, Red	G2350	—	G2351	G2352	G2353	14A772 *
1"		G2354	—	G2355	G2356	G2357	14A773 *
1½"		G2358	—	G2359	G2360	G2361	14A774 *
2"		G2362	—	G2363	G2364	G2365	14A775 *
3"		—	—	—	—	—	14A776 *
Polyester							
3"	Yellow	—	53PW80	—	—	53PW81	53PW82
4"		—	53PW83	—	—	53PW84	—
2"		—	53PW77	—	—	53PW78	53PW79
Polypropylene							
1"	Black, Blue, Orange, Red	—	—	G2369	G2370	—	G2371
1½"		—	—	G2372	G2373	—	G2374
2"		—	—	G2375	G2376	—	G2377
¾"		—	—	G2366	G2367	—	G2368

Size	Material	Pkg. Qty.	Item No.
Buckles and Fittings			
Side-Squeeze Buckles			
¾"	Plastic	10	4TLP4
1"	Plastic	10	4TLP5
1½"	Plastic	10	4TLP6
2"	Plastic	5	4TLP7
SlideBar Buckles			
¾"	Plastic	25	4TLP8
1"	Plastic	25	4TLP9
1½"	Plastic	25	4TLR1
2"	Plastic	5	4TLR2
Cam Buckles			
1"	Zinc	2	4TLT4
1½"	Zinc	2	4TLT5
2"	Zinc	2	4TLT6
1"	Plastic	10	4TLR7
1½"	Plastic	10	4TLR8
2"	Plastic	5	4TLR9

Size	Material	Pkg. Qty.	Item No.
Slip-Lok Buckles			
1"	Steel	10	4TLT1
1½"	Steel	10	4TLT2
2"	Steel	10	4TLT3
¾"	Plastic	25	4TLR3
1"	Plastic	25	4TLR4
1½"	Plastic	25	4TLR5
2"	Plastic	25	4TLR6
Anchor Plates			
1"	Nickel Plated Steel	5	14A768
1" x 29/32"	Stainless Steel	2	14A770
1½ to 2"	Nickel Plated Steel	5	14A769
1½ to 2"	Stainless Steel	2	14A771

** Available in Black only.*



No. 48PX49
Cam Buckle with S-Hook



No. 38Z862
Ratchet Adjustment, Endless



No. 48PX71
Ratchet Adjustment with Grab Hook & Chain Anchor End



No. 2VKP8
Ratchet Adjustment with J-Hook



No. 38Z887
Ratchet Adjustment with Sewn Eye End



No. 2VKP6
Ratchet Adjustment with Snap Hook End



No. 2VKP4
Ratchet Adjustment with S-Hook End



No. 22P615
Ratchet Adjustment with Spring E-Track End

Cargo Straps and Tie-Downs

- Polyester strap and tie-down construction, except as noted.

Length	Width	Breaking Strength	Working Load Limit	Color	Cargo Tie Down End Material	Brand	Item No.	Pkg. Qty.
Cam Buckle Adjustment								
Endless End								
10 ft.	1"	1000 lb.	330 lb.	Black	Steel	Lift-All	**38Z863**	1
Flat Hook End								
12 ft.	1"	500 lb.	167 lb.	Blue	Zinc/Steel	Kinedyne	**48PX34**	1
15 ft.	1"	1000 lb.	330 lb.	Black	Steel	Lift-All	**38Z877**	1
S-Hook End								
6 ft.	1"	1200 lb.	400 lb.	Blue	Steel	Kinedyne	**48PX49**	2
6 ft.	1"	1500 lb.	500 lb.	Red	Steel	Kinedyne	**48PX54**	1
10 ft.	1"	1200 lb.	400 lb.	Blue	Steel	Kinedyne	**48PX55**	1
12 ft.	1"	1200 lb.	400 lb.	Blue	Steel	Kinedyne	**48PX37**	1
15 ft.	1"	1200 lb.	400 lb.	Blue	Steel	Kinedyne	**48PX47**	1
Spring E-Track End								
12 ft.	2"	2500 lb.	800 lb.	Yellow	Steel	Lift-All	**3KN66**	1
12 ft.	2"	2500 lb.	835 lb.	Gold	Steel	Kinedyne	**22P619**	1
16 ft.	2"	2500 lb.	800 lb.	Gray	Steel	Lift-All	**3KN67**	1
16 ft.	2"	2500 lb.	835 lb.	Gray	Steel	Kinedyne	**22P616**	1
20 ft.	2"	2500 lb.	835 lb.	Blue	Steel	Kinedyne	**22P620**	1
Ratchet Adjustment								
Endless End								
10 ft.	1"	2100 lb.	700 lb.	Black	Steel	Lift-All	**38Z862**	1
15 ft.	1"	2505 lb.	835 lb.	Blue	—	Kinedyne	**48PX40**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	—	Kinedyne	**48PX43**	1
Flat Hook End								
20 ft.	2"	10,000 lb.	3330 lb.	Yellow	Steel	Lift-All	**3LLJ2**	1
20 ft.	2"	10,000 lb.	3330 lb.	Yellow	Steel	Lift-All	**3LLG1**	1
20 ft.	2"	10,000 lb.	3335 lb.	Gold	Steel	Kinedyne	**48PX53**	1
27 ft.	2"	5000 lb.	1600 lb.	Yellow	Steel	Lift-All	**2W726**	1
27 ft.	2"	5000 lb.	1670 lb.	Gold	Zinc/Steel	Kinedyne	**48PX24**	1
27 ft.	2"	10,000 lb.	3300 lb.	Yellow	Steel	Lift-All	**2A468**	1
27 ft.	2"	10,000 lb.	3333 lb.	Orange	Steel	Ancra	**16V910**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	Steel	Kinedyne	**48PX48**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**22P577**	1
27 ft.	3"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**3XNR7**	1
27 ft.	3"	16,200 lb.	5400 lb.	Gold	Steel	Kinedyne	**48PX50**	1
27 ft.	4"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**38Z894**	1
27 ft.	4"	16,200 lb.	5400 lb.	Gold	Steel	Kinedyne	**48PX42**	1
30 ft.	2"	10,000 lb.	3333 lb.	Yellow	Carbon Steel	GA	**2VKP9**	1
30 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**22P582**	1
30 ft.	3"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**3MLU9**	1
30 ft.	3"	16,200 lb.	5400 lb.	Gold	Steel	Kinedyne	**48PX26**	1
30 ft.	4"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**3MLV4**	1
30 ft.	4"	16,200 lb.	5400 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**22P583**	1
Grab Hook and Chain Anchor End								
30 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Steel	Kinedyne	**48PX71**	1
30 ft.	3"	16,200 lb.	5400 lb.	Gold	Zinc/Steel	Kinedyne	**48PX67**	1
30 ft.	4"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**3MLV6**	1
30 ft.	4"	16,200 lb.	5400 lb.	Gold	Zinc/Steel	Kinedyne	**48PX44**	1
J-Hook and Keeper End								
16 ft.	1"	2100 lb.	700 lb.	Black	Steel	Lift-All	**3MLU5**	1
J-Hook End								
6 ft.	1½"	3000 lb.	1000 lb.	Black	Alloy Steel	GA	**2VKP5**	2
10 ft.	1"	2500 lb.	835 lb.	Blue	Zinc/Steel	Kinedyne	**48PX38**	1
12 ft.	1"	2505 lb.	835 lb.	Blue	Zinc/Carbon Steel	Kinedyne	**22P574**	1
15 ft.	1"	2500 lb.	835 lb.	Blue	Zinc/Steel	Kinedyne	**48PX29**	1
15 ft.	1"	3000 lb.	1000 lb.	Red	Alloy Steel	GA	**34RY84**	1
15 ft.	1½"	4000 lb.	1333 lb.	Black	Alloy Steel	GA	**2VKP7**	1
15 ft.	1¾"	4400 lb.	1670 lb.	Blue	Steel	Kinedyne	**48PX56**	1
15 ft.	2"	5000 lb.	1600 lb.	Yellow	Steel	Load Hugger	**36LG54**	1
15 ft.	2"	5000 lb.	1666 lb.	Yellow	Alloy Steel	GA	**2VKP8**	1
15 ft.	2"	10,000 lb.	3300 lb.	Yellow	Steel	Load Hugger	**36LG47**	1
16 ft.	1"	2505 lb.	835 lb.	Blue	Zinc/Carbon Steel	Kinedyne	**22P576**	1
20 ft.	1"	2505 lb.	835 lb.	Blue	Zinc/Steel	Kinedyne	**48PX66**	1
20 ft.	1½"	6600 lb.	2200 lb.	Yellow	Alloy Steel	GA	**34RY83**	1
20 ft.	2"	5000 lb.	1600 lb.	Yellow	Steel	Lift-All	**3LLH9**	1
20 ft.	2"	5000 lb.	1600 lb.	Yellow	Steel	Lift-All	**3LLG3**	* 1
20 ft.	2"	5000 lb.	1670 lb.	Gold	Zinc/Steel	Kinedyne	**48PX51**	1
25 ft.	1"	2505 lb.	835 lb.	Blue	Zinc/Steel	Kinedyne	**48PX69**	1
25 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Steel	Kinedyne	**48PX35**	1
27 ft.	2"	10,000 lb.	3300 lb.	Yellow	Alloy Steel	GA	**34RY82**	1
27 ft.	2"	10,000 lb.	3300 lb.	Yellow	Steel	Lift-All	**4LA47**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**22P578**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Steel	Kinedyne	**48PX25**	1
27 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**26W539**	1
27 ft.	3"	15,000 lb.	5000 lb.	Hi-Visibility Yellow	Steel	Lift-All	**38Z891**	1
27 ft.	3"	16,200 lb.	5400 lb.	Gold	Zinc/Steel	Kinedyne	**48PX41**	1
27 ft.	4"	20,000 lb.	6670 lb.	Gold	Zinc/Steel	Kinedyne	**48PX45**	1
30 ft.	2"	5000 lb.	1670 lb.	Gold	Zinc/Steel	Kinedyne	**48PX32**	1
30 ft.	2"	10,000 lb.	3300 lb.	Yellow	Steel	Lift-All	**38Z893**	1
30 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Carbon Steel	Kinedyne	**22P580**	1
30 ft.	3"	15,000 lb.	5000 lb.	Hi-Visibility Yellow	Steel	Lift-All	**38Z944**	1
30 ft.	3"	16,200 lb.	5400 lb.	Gold	Zinc/Steel	Kinedyne	**48PX31**	1
40 ft.	2"	10,000 lb.	3335 lb.	Gold	Zinc/Steel	Kinedyne	**48PX27**	1
Sewn Eye End								
27 ft.	3"	15,000 lb.	5000 lb.	Yellow	Steel	Lift-All	**38Z887**	1
S-Hook End								
6 ft.	1½"	3000 lb.	1000 lb.	Black	Alloy Steel	GA	**2VKP4**	2
10 ft.	1"	1200 lb.	400 lb.	Blue	Steel	Kinedyne	**48PX28**	4
10 ft.	1"	1200 lb.	400 lb.	Black	Steel	Kinedyne	**48PX39**	1
12 ft.	1¼"	2500 lb.	833 lb.	Black	Alloy Steel	GA	**32J628**	2
14 ft.	1"	1200 lb.	400 lb.	Black	Steel	Kinedyne	**48PX36**	1
15 ft.	1"	1200 lb.	400 lb.	Blue	Zinc/Carbon Steel	Kinedyne	**22P575**	1
15 ft.	1"	1200 lb.	400 lb.	Red	Alloy Steel	GA	**2VKP3**	2
15 ft.	1"	1500 lb.	500 lb.	Black	Alloy Steel	GA	**34RY85**	1
15 ft.	1"	2100 lb.	700 lb.	Black	Steel	Lift-All	**6A265**	1
15 ft.	1"	2100 lb.	700 lb.	Black	Steel	Lift-All	**38Z871**	16
Snap Hook End								
15 ft.	1½"	4000 lb.	1333 lb.	Black	Carbon Steel	GA	**2VKP6**	1
20 ft.	2"	5000 lb.	1600 lb.	Yellow	Steel	Lift-All	**3LLG5**	1
Spring E-Track End								
12 ft.	2"	3000 lb.	1000 lb.	Gold	Steel	Kinedyne	**22P613**	1
12 ft.	2"	3000 lb.	1000 lb.	Yellow	Steel	Lift-All	**3KN69**	1
12 ft.	2"	3999 lb.	1333 lb.	Yellow	Steel	Ancra	**16V915**	1
12 ft.	2"	4400 lb.	1500 lb.	Gold	Steel	Kinedyne	**52XH69**	1
16 ft.	2"	3000 lb.	1000 lb.	Gray	Steel	Kinedyne	**22P614**	1
16 ft.	2"	3000 lb.	1000 lb.	Gray	Steel	Kinedyne	**48PX62**	1
16 ft.	2"	3000 lb.	1000 lb.	Gray	Steel	Lift-All	**3KN70**	1
16 ft.	2"	3999 lb.	1333 lb.	Gray	Steel	Ancra	**16V916**	1
16 ft.	2"	4400 lb.	1500 lb.	Gold	Steel	Kinedyne	**52XH70**	1
20 ft.	2"	3000 lb.	1000 lb.	Blue	Steel	Kinedyne	**22P615**	1
20 ft.	2"	3000 lb.	1000 lb.	Blue	Steel	Lift-All	**3KN71**	1
20 ft.	2"	3999 lb.	1333 lb.	Blue	Steel	Ancra	**16V917**	1
20 ft.	2"	4400 lb.	1500 lb.	Gold	Steel	Kinedyne	**52XH71**	1

** Tuff-Edge construction.*

PROGRIP CARGO CONTROL

Back-Off Technology Cargo Straps



Controlled-release cargo straps allow you to release one tooth at a time. Safe and easy to use, this step release action prevents sudden jerks that might cause a load to fall.

Description	Length	Width	Breaking Strength	Working Load Limit	Item No.
J-Hook Fitting Style	16 ft.	1¼"	3000 lb.	1000 lb.	**53FK21**
J-Hook Fitting Style	20 ft.	1½"	5000 lb.	1665 lb.	**53FK22**
J-Hook Fitting Style	27 ft.	2"	10,000 lb.	3300 lb.	**39RH10**
Flat Hook Fitting Style	27 ft.	2"	10,000 lb.	3333 lb.	**39RH06**







No. 1DKZ9

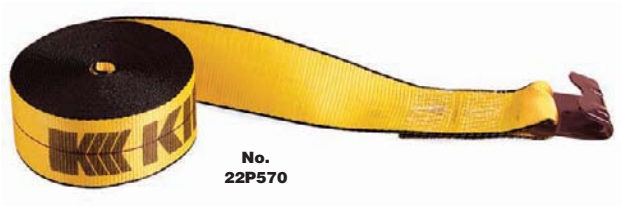
LiftAll® PRODUCTS FOR BETTER LIFTING | KINEDYNE® The Cargo Control People® | ★GA GRAINGER APPROVED | ANCRA INTERNATIONAL

Tie-Down Winches and Winch Bars

Tie-Down Winches—Ensure smooth transit of cargo with tightened strap locked into place by ratchet.

Winch Bars—Provide added leverage to tighten winch. For use with weld-on or portable-style winches.

Description	Working Load Limit	Brand	Item No.
Winches			
Bolt-on Mounting			
Portable Load Hugger	5000 lb.	Lift-All	**2A465**
Portable Webbing Winch with 2 Set Screws	5400 lb.	Kinedyne	**22P590**
Weld-on Mounting			
Tie Down Winch	5000 lb.	GA	**1DKZ7**
Standard Fixed	5000 lb.	Lift-All	**2A464**
Low-Profile 3-Bar, No Paint	5000 lb.	Kinedyne	**22P594**
Standard Fixed	5500 lb.	Kinedyne	**22P584**
Low-Profile Fixed	5500 lb.	Kinedyne	**22P585**
Double "L" Style Winch Track Mounting			
Standard Double "L" Webbing Winch - Sliding	5500 lb.	Kinedyne	**22P586**
Sliding Track Mounting			
Standard Webbing Winch - Sliding	5500 lb.	Kinedyne	**22P588**
Storable Webbing Winch - Sliding	5500 lb.	Kinedyne	**22P589**
Standard Webbing Winch - Sliding	5500 lb.	Kinedyne	**22P591**
Winch Bars			
Knurled Grips - 33"L	—	GA	**1DKZ9**
Chrome Knurled Handle - 34"L	—	Lift-All	**2A466**
Painted Knurled Handle - 35"L	—	Kinedyne	**22P592**
Chrome Knurled Handle - 35"L	—	Kinedyne	**22P593**
Combination Winch Bar, Knurled Grips	—	Kinedyne	**48PX68**
Knurled Grips - 34"L	—	Ancra	**16V907**
Knurled Grips - 34"L	—	Ancra	**16V908**
Ergonomic 360° - 34"L	—	Ancra	**16V926**
Ergonomic 360° - 38⅝"L	—	Ancra	**16V927**
Outward Truck/Trailer Winch	5500 lb.	Ancra	**16V921**
Inward Truck/Trailer Winch	5500 lb.	Ancra	**16V922**
Accessories			
Plastic Corner Protector For 2" To 4" Webbing & Chain	—	Kinedyne	**22P596**
Plastic Corner Protector for 2" To 4" Webbing	—	Kinedyne	**22P595**
Coil Rack	—	Kinedyne	**22P597**
Weld-On Mounting			
72" Steel Sliding C Channel Winch Track	—	Kinedyne	**22P587**
Heavy Duty Strap Band	—	Kinedyne	**48PX78**
Corner Protector	—	Kinedyne	**48PX81**



LiftAll® PRODUCTS FOR BETTER LIFTING | KINEDYNE® The Cargo Control People®

Winch Straps

- Tuff-edge webbing for cut and abrasion resistance

Polyester construction. Available with a flat hook, sewn eye, or triangle ring.

WARNING: Do not exceed working load limit. This is the maximum load that may be applied per the Commercial Vehicle Safety Alliance.

Cargo Tie Down Width	Cargo Tie Down Length	Working Load Limit	Cargo Tie Down Material	Brand	Item No.
Grab Hook and Chain Anchor					
3"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z997**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A020**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A021**
	30 ft.	5400 lb.	Polyester	Kinedyne	**22P567**
4"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z996**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A018**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A019**
	30 ft.	5400 lb.	Polyester	Kinedyne	**22P572**
Flat Hook					
2"	30 ft.	3335 lb.	Polyester	Kinedyne	**48PX52**
3"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z989**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A008**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A009**
	30 ft.	5400 lb.	Polyester	Kinedyne	**22P566**
4"	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A006**
	27 ft.	5000 lb.	Polyester	Lift-All	**2A461**
	27 ft.	5400 lb.	Polyester	Kinedyne	**22P568**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A007**
	30 ft.	5400 lb.	Polyester	Kinedyne	**22P570**
Grab Hook					
3"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z994**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A016**
	30 ft.	5000 lb.	Polyester	Lift-All	**38Z995**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A017**
4"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z992**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A014**
	30 ft.	5000 lb.	Polyester	Lift-All	**38Z993**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A015**
No Fittings					
4"	30 ft.	5400 lb.	Polyester	Kinedyne	**22P631**
Sewn Eye					
3"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z999**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A024**
	30 ft.	5000 lb.	Polyester	Lift-All	**39A001**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A025**
4"	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A022**
	30 ft.	5000 lb.	Polyester	Kinedyne	**22P571**
	30 ft.	5000 lb.	Polyester	Lift-All	**38Z998**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A023**
Triangle Ring					
2"	27 ft.	3335 lb.	Polyester	Kinedyne	**48PX46**
3"	27 ft.	5000 lb.	Polyester	Lift-All	**38Z991**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A012**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A013**
4"	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A010**
	30 ft.	5000 lb.	Polyester	Lift-All	**38Z990**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A011**
	30 ft.	5400 lb.	Polyester	Kinedyne	**22P569**
U-Hook					
3"	27 ft.	5000 lb.	Polyester	Lift-All	**39A004**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A028**
	30 ft.	5000 lb.	Polyester	Lift-All	**39A005**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A029**
4"	27 ft.	5000 lb.	Polyester	Lift-All	**39A002**
	27 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A026**
	30 ft.	5000 lb.	Polyester	Lift-All	**39A003**
	30 ft.	5000 lb.	Tuff-Edge Polyester	Lift-All	**39A027**



Folding Steel Cargo Bar



Cargo Hoops

GA GRAINGER APPROVED — KINEDYNE The Cargo Control People!

Cargo Bars and Decking Beams

Cargo Bars and Hoops—Hold loads in place.

Folding Steel Cargo Bar—4" square, articulating rubber end pads. 1½" square 14-ga. tubing. Mechanical ratchet will not slip or vibrate. 2-pc. hinged bar folds.

E-Track Decking Beams—E-track bars are used for stocking and cargo control.

Description	Brand	Item No.
Ratcheting Cargo Bars		
Round Tubing - 40" to 70" Service Range	GA	**32J634**
Round Tubing - 81" to 105" Service Range	GA	**32J635**
Round Tubing - 63" to 114" Service Range	GA	**32J649**
Cargo Bars		
Folding Steel Cargo Bar	GA	**5A351**
E-Track Decking Beams		
Standard Duty - 85⅝" to 95" Service Range	Kinedyne	**22P624**
Standard Duty - 92 15/16" to 102.3" Service Range	Kinedyne	**22P625**
Heavy Duty Decking Beam - 85⅝" to 95" Service Range	Kinedyne	**22P622**
Heavy Duty Decking Beam - 92 15/16" to 102.3" Service Range	Kinedyne	**22P623**
Jack Bars		
Square Tubing - 54" to 107" Service Range	Kinedyne	**48PX80**
Square Tubing - 86 To 104" Service Range	Kinedyne	**22P628**
SAF-T-LOK Bars		
Steel - 90 To 105" Service Range	Kinedyne	**22P626**
Aluminum - 90 To 105" Service Range	Kinedyne	**22P627**



No. 4HXC3 E-Track System



No. 4HXC5 E-Fitting w/Ring

GA GRAINGER APPROVED — KINEDYNE The Cargo Control People!

E-Track Systems and Accessories

Use to affix items to trailer wall. Horizontal E-Track can be used to secure vehicles to the floor during transit.

Description	L	D	W	Brand	Item No.	Pkg. Qty.
E-Track System						
Vertical E-Track	48"	7/16"	3½"	GA	**4HXC3**	1
Horizontal E-Track	60"	29/64"	5"	GA	**4HXC4**	1
12 ga. Series E Track - Galvanized	120"	13/32" to 29/64"	4⅞"	Kinedyne	**22P617**	1
12 ga. Horizontal E-Track Powder Coated	120"	13/32" to 29/64"	4.87"	Kinedyne	**22P618**	1
11 ga. Series E Track - Powder Coat	120"	7/16"	3 15/32"	Kinedyne	**22P621**	1
E-Track Accessories						
E-Fitting w/Ring, ¼"-dia.	—	—	—	GA	**4HXC5**	8
E-Fitting w/Ring, 5/16"-dia.	3"	—	½"	GA	**4HXC6**	12
Series E or A Beam Socket - Positive Locking Mechanism	4"	3"	3"	Kinedyne	**22P629**	1
Series E or A Rope Tie-Off, 2"-dia. Ring	6"	⅜"	2"	Kinedyne	**22P630**	1
Series E or A Rope Tie-Off, 2"-dia. Ring	6"	⅜"	2"	Kinedyne	**48PX63**	2
Door Pull w/Steel Mount Plate	24"	—	—	Kinedyne	**48PX72**	1

SNAP-LOC CARGO CONTROL SYSTEMS

Snap-Loc® E-Track Cargo Control System

This next generation tie-down system uses proven E-track technology in a single placement anchor where you want it. For use on pickups, truck racks, trailers, service vehicles, flat beds, vans, off-road vehicles, and more.



No. 15X206 Black Snaploc E-Track Single



No. 15X214 O-Style Ring Connects Ropes and Hook Straps



No. 15X210 E-Strap Link



No. 15X212 E-Strap Hook

Description	L	Item No.
Snap-Loc® Logistic E-Strap Anchors		
Black Snaploc - 1000 lb. WLL	6"	**15X206**
Black Snaploc 2 Pack with Fasteners	6"	**15X239**
Stainless Steel Snaploc - 1000 lb. WLL	6"	**15X208**
Zinc Snaploc - 1000 lb. WLL	6"	**15X204**
Zinc Snaploc 2 Pack with Fasteners	6"	**15X241**
Unfinished Snaploc - 1000 lb. WLL	6"	**15X202**
Weld-On Snaploc - 1467 lb. WLL	4½"	**15X199**
Heavy Duty Zinc Fastener Sets for Snaplocs		
Carriage Bolt Set, 5/16 x 1" (Fastens 2 Snaplocs)	1"	**19XZ82**
Allen Socket Head Cap Screw Set, 5/16 x 1" (Fastens 2 Snaplocs)	1"	**19XZ83**
Hex Head Lag Screw Set, 5/16 x 3" (Fastens 2 Snaplocs)	3"	**19XZ84**
Self Drilling Screw Set, 12-14, 5/16 x 1½" (Fastens 2 Snaplocs)	1½"	**19XZ85**
System Accessories		
Snaplocs Ring	3"	**15X214**
E-Strap Link (connects E-Straps together or to itself)	4½"	**15X210**
E-Strap Hook (slips on and turns E-Straps into hook straps)	—	**15X212**
Snaplocs Snap-Hook Carabiner	2"	**19XZ81**
E-Fitting 2 Pack - 1000 lb. WLL	2"	**19XZ80**
Snaplocs E-Strap Dolly - 1500 lb. WLL	—	**40AL30**
Snaplocs E-Strap Push Cart Dolly - 1500 lb. WLL	—	**40AL31**
Military Cargo Nets		
Cargo Net 62" x 72" (short bed pick-up)	—	**15X243**
Cargo Net 62" x 96" (long bed pick-up)	—	**15X244**
Cargo Net 96" x 144" (12 foot trailer)	—	**15X245**
Cargo Net 96" x 192" (16 foot trailer)	—	**15X246**
Logistic E-Straps		
2"W Multi-Use E-Strap - 4400 lb. Assembly Strength	6"	**19XZ71**
2"W Multi-Use E-Strap - 4400 lb. Assembly Strength	1 ft.	**19XZ70**
2"W Cam E-Strap - 3000 lb. Assembly Strength	8 ft.	**19XZ66**
2"W Ratchet E-Strap - 4400 lb. Assembly Strength	8 ft.	**19XZ67**
2"W Cam E-Strap - 3000 lb. Assembly Strength	16 ft.	**15X219**
2"W Cam E-Strap - 3000 lb. Assembly Strength	16 ft.	**19XZ64**
2"W Ratchet E-Strap - 4400 lb. Assembly Strength	16 ft.	**15X220**
2"W Ratchet E-Strap - 4400 lb. Assembly Strength	16 ft.	**19XZ65**

Description	L	Item No.
Cinch Straps		
1"W Cinch Cam Strap, Pair	24"	**52RW90**
1"W Cinch Cam Strap, Pair	36"	**52RW91**
1"W Cinch Cam Strap, Pair	48"	**52RW92**
1"W Cinch Cam Strap, Pair	72"	**52RW93**
1"W Cinch Cam Strap	50 ft.	**19XZ72**
1"W Cinch Cam Strap	100 ft.	**19XZ73**
2"W Cinch Cam Strap	8 ft.	**19XZ68**
2"W Cinch Ratchet Strap	8 ft.	**19XZ69**
Hook Straps		
1"W Hook Cam Strap	8 ft.	**19XZ74**
1" Hook Ratchet Strap	8 ft.	**19XZ75**
Tow and Lift Straps		
1" x 15 ft. Tow and Lift Strap - 2333 lb. WLL	15 ft.	**45MJ62**
2" x 30 ft. Tow and Lift Strap - 3333 lb. WLL	30 ft.	**45MJ63**
Hand Truck Cargo Strap		
2" x 15" Hand Truck Cargo Strap, 400 lb. Load Capacity	—	**52RW89**

Description	Item No.
Snap-Loc® System Combo Packs	
(2) 2"x12" E-Straps, (2) Black Snaplocs, (2) Stainless Steel Snaplocs, (2) Hooks, (4) Lag Bolts, (4) Hex Screws, (4) Washers, (4) Nuts	**19XZ77**
Safety Strap Kit (1) 2"x12" E-Strap, (2) Black Snaplocs with Fasteners	**15X238**
(1) 2"x16' Cam E-Strap, (2) Black Snaplocs with Fasteners	**15X232**
(1) 2"x16' Cam E-Strap, (2) Black Snaplocs with Fasteners, (2) Rings	**15X233**
(1) 2"x16' Cam E-Strap, (2) Black Snaplocs with Fasteners, (2) Hooks	**19XZ78**
(1) 2"x16' Ratchet E-Strap, (2) Black Snaplocs with Fasteners	**15X234**
(1) 2"x16' Ratchet E-Strap, (2) Black Snaplocs with Fasteners, (2) Rings	**15X235**
(1) 2"x16' Ratchet E-Strap, (2) Black Snaplocs with Fasteners, (2) Hooks	**19XZ79**
(2) 2"x16' Ratchet E-Straps, (6) Black Snaplocs with Fasteners	**15X223**
(2) 2"x16' Ratchet E-Straps, (6) Black Snaplocs with Fasteners, (2) Hooks, (2) Rings	**15X226**



No. 22P610
Lever Load Binder



No. 4EB92
Lever Load Binder



No. 3YDG1
Ratchet Load Binder

GA GRAINGER APPROVED · KINEDYNE The Cargo Control People® · B/A PRODUCTS CO.

Lever and Ratchet Load Binders

Ideal for most trucking and marine industry chain binding applications. Drop-forged steel construction. See Grainger.com® for applicable standards.

WARNING: Do not exceed working load limit. Working load limit of an assembly is determined by the component with the lowest working load limit.

Working Load Limit	Trade Size G30/G43	Trade Size G70	Brand	Item No.
Lever Load Binders				
2600 lb.	¼"	—	GA	**4EB91**
2600 lb.	¼" to 5⁄16"	—	Kinedyne	**48PX61**
5400 lb.	⅜"	5⁄16"	Kinedyne	**22P610**
5400 lb.	⅜"	5⁄16"	Kinedyne	**22P609**
5400 lb.	⅜"	5⁄16"	GA	**4EB92**
5400 lb.	⅜"	5⁄16"	Kinedyne	**22P608**
9200 lb.	½"	⅜"	Kinedyne	**22P612**
Ratchet Load Binders				
5400 lb.	⅜"	5⁄16"	Kinedyne	**22P607**
6600 lb.	5⁄16 to ⅜"	5⁄16" to ⅜"	B/A Products Co.	**3YDG1**
9200 lb.	½"	⅜"	Kinedyne	**22P611**
13,000 lb.	½" to 5⁄8"	—	Kinedyne	**48PX60**
Accessories				
Lever Binder Lok			Kinedyne	**48PX77**



No. 5JDU0



No. 4HXF2

Truck and Trailer Anchors

GA GRAINGER APPROVED

Provide a safe, secure, and easily accessible anchor point for tie-downs or rope. Mount on the inside of a pickup truck box, bed, or walls of a trailer. Rust-resistant.

Description	Working Load Limit	Ring Dia.	Finish	Material	Item No.	Pkg. Qty.
Surface Mount Anchor	400 lb.	¼"	Zinc Plated	Steel	**4HXF1**	12
Recessed Mount Anchor	400 lb.	¼"	Zinc Plated	Steel	**5JDU0**	6
Wire Ring	400 lb.	¼"	Yellow Zinc Plated	Steel	**4HXE9**	20
Flip Ring	5000 lb.	⅝"	Natural	Forged Steel	**5JDU9**	10
Screw Mount Anchor Ring	1300 lb.	2"	Zinc Plated	Steel	**34RY81**	1
Recessed Anchor Ring	1667 lb.	⅜"	Zinc Plated	Steel	**4HXF3**	6
Heavy-Duty Anchor Ring	3667 lb.	½"	Yellow Zinc Plated	Forged Steel	**4HXF2**	12



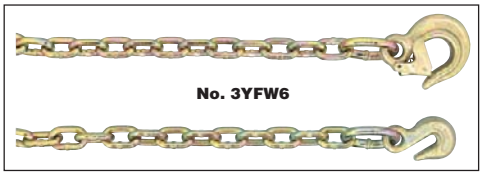
No. 22P598



No. 1DJU8



No. 3WXK8



No. 3YFW6

★Dayton · KINEDYNE The Cargo Control People® · B/A PRODUCTS CO.

Transport Chains and Chain Binders

Binder Chains—Ideal for towing or securing loads to trailers. All have clevis grab hooks, except No. 1DJV1 has a welded, grab-style hook. Steel construction. Meet National Association of Chain Manufacturers' Standards.

Transport Chains—Gold dichromate color. Meet NACM Standard.

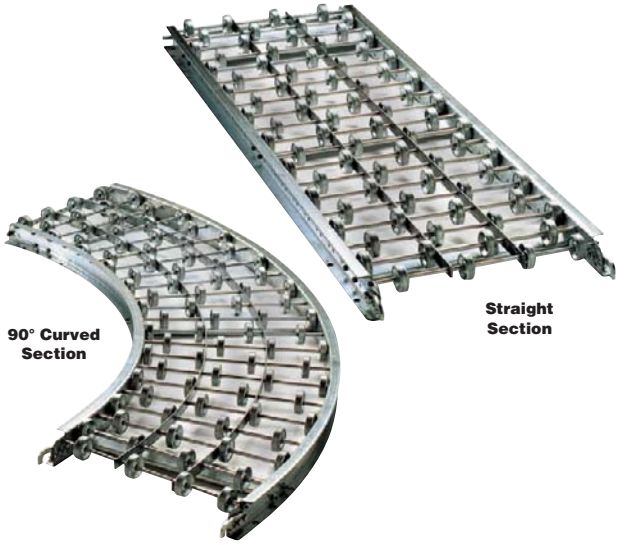
Chains with Grabs—Gold chromate color with twist lock grab hooks on each end.

Auto Tie-Down Chains—DOT-approved Grade 70 chain Tagged-ECT.

Safety Chains—Tagged with grade and WLL DOT-Approved Grade 70 chain.

Trade Size	L	Grade	Rated Capacity	Brand	Item No.
Binder Chains					
5⁄16"	20 ft.	70	4700 lb.	Dayton	**1DJU8**
⅜"	20 ft.	43	5400 lb.	Dayton	**1DJU9**
⅜"	20 ft.	70	6600 lb.	Dayton	**1DJV1**
⅜"	20 ft.	70	6600 lb.	Dayton	**1DJV2**
Transport Chains with Grab Hook					
5⁄16"	16 ft.	70	4700 lb.	Kinedyne	**22P598**
5⁄16"	20 ft.	70	4700 lb.	Kinedyne	**22P599** *
5⁄16"	20 ft.	70	4700 lb.	Kinedyne	**22P601**
5⁄16"	25 ft.	70	4700 lb.	Kinedyne	**22P602**
⅜"	16 ft.	70	6600 lb.	Kinedyne	**22P603**
⅜"	20 ft.	70	6600 lb.	Kinedyne	**22P604** *
⅜"	20 ft.	70	6600 lb.	Kinedyne	**22P605**
⅜"	25 ft.	70	6600 lb.	Kinedyne	**22P606**
Transport Chains with a Patented Twist Lock™ Grab Hook On Each End					
⅜"	10 ft.	70	6600 lb.	B/A Products Co.	**12Z654**
⅜"	15 ft.	70	6600 lb.	B/A Products Co.	**12Z655**
⅜"	20 ft.	70	6600 lb.	B/A Products Co.	**12Z656**
5⁄16"	10 ft.	70	4700 lb.	B/A Products Co.	**12Z651**
5⁄16"	15 ft.	70	4700 lb.	B/A Products Co.	**12Z652**
5⁄16"	20 ft.	70	4700 lb.	B/A Products Co.	**12Z653**
Auto Tie-Down Chain with Sling Hook and Heavy-Duty Latch					
5⁄16"	4 ft.	70	4700 lb.	B/A Products Co.	**3WXK8**
5⁄16"	5 ft.	70	4700 lb.	B/A Products Co.	**3WXL3**
5⁄16"	6 ft.	70	4700 lb.	B/A Products Co.	**3WXL7**
5⁄16"	8 ft.	70	4700 lb.	B/A Products Co.	**3WXN2**
Safety Chains					
5⁄16"	12 ft.	70	4700 lb.	B/A Products Co.	**3YFW6**

** Come packaged as 25 pieces of 20-ft. chain in a barrel.*



Light-Duty Rigid-Frame Skate Wheel Conveyors

ASHLAND CONVEYOR PRODUCTS

Conveyors allow users to move flat-bottomed, lightweight loads with reduced effort. Sections connect to build custom conveyor systems. Each section must be supported by compatible conveyor stands, sold separately. Conveyor section load capacity depends on the number and spacing of the support stands. Staggered wheel design.

Aluminum Frame—Lighter than steel for applications with frequent disassembly and reconfiguration of conveyors.

Galvanized Steel Frame—Stronger than aluminum, with better resistance to abrasion and impacts. For assembly lines, shipping departments, and stocking areas.

Note: A minimum of three axles and five wheels should be under the load at all times.

Overall Width	Between Frame Width	Axle Spacing	Load Capacity @ 5 ft. Centers	Wheels per Axle	10 FT. STRAIGHT Item No.	5 FT. STRAIGHT Item No.	90° CURVED Item No.
Aluminum Frame							
Aluminum Skate Wheels							
12"	10"	3"	150 lb./ft.	2 and 3	**2W851**	**1PDF5**	**3W430**
15"	13"	3"	150 lb./ft.	2 and 3	**2WKL3**	**2WKL2**	**2WKL4**
18"	16"	3"	150 lb./ft.	4	**2W852**	**1PDF6**	**3W431**
24"	22"	3"	150 lb./ft.	5	**3MY85**	**1PDF7**	**3MY86**
Galvanized Steel Frame							
Nylon Skate Wheels							
12"	10"	3"	260 lb./ft.	2 and 3	**2WKL6**	**2WKL5**	**2WKL7**
15"	13"	3"	260 lb./ft.	2 and 3	**2WKN2**	**2WKL9**	**2WKN4**
18"	16"	3"	260 lb./ft.	4	**2WKN6**	**2WKN5**	**2WKN7**
24"	22"	3"	260 lb./ft.	5	**2WKN9**	**2WKN8**	**2WKP1**
Steel Skate Wheels							
12"	10"	3"	260 lb./ft.	2 and 3	**2W849**	**1PDF2**	**3W428**
12"	10"	1½"	260 lb./ft.	4	**42X952**	**42X953**	**42X954**
15"	13"	3"	260 lb./ft.	2 and 3	**2WKN1**	**2WKL8**	**2WKN3**
18"	16"	3"	260 lb./ft.	4	**2W850**	**1PDF3**	**3W429**
18"	16"	1½"	260 lb./ft.	4	**42X955**	**42X956**	**42X957**
24"	22"	3"	260 lb./ft.	5	**3MY70**	**1PDF4**	**3MY84**
24"	22"	1½"	260 lb./ft.	5	**42X958**	**42X959**	**42X960**
Replacement Parts							
Conveyor Connecting Hook Kit For use with Skate Wheel and Light Duty Conveyors, Both Aluminum and Zinc Plated Steel							**6GKJ0**

H-Stands sold separately on page 1113.



GA GRAINGER APPROVED

Medium-Duty Extendable Flexible-Frame Skate Wheel Conveyors

CONVEYORS
- Shipped assembled
- 200 lb./ft. max. load

Conveyors have accordion-style, flexible frames that stretch, curve, and contract to change conveyor shape and length. Conveyors collapse for compact storage. Skate wheels help move loads with firm, flat bottoms from one place to another with reduced effort. Adjustable legs can be raised or lowered to change the height of the conveyor from 28½" to 41½", or to adjust the slope. Swivel casters allow the conveyors to be rolled into position. Suitable for loading and unloading trailers, creating temporary assembly lines, and adding length to an existing conveyor.

CONVEYOR ACCESSORIES

Pivoting Package Stops—Stops can be raised to prevent items from falling off the end of the conveyor, or lowered to allow items to flow onto other conveyors and surfaces.

Replacement Connecting Hooks—Replace worn connecting hooks on compatible conveyor sections to avoid conveyor malfunction.

Overall Width	Between Frame Width	Min. Length	Max. Length	Wheels per Axle	Item No.
Steel Frame Conveyors					
Plastic Skate Wheels					
20⅜"	18"	2 ft.	8 ft.	7	**13D466**
		3 ft.	12 ft.	7	**13D467**
		6 ft.	24 ft.	7	**13D468**
25$^{13}/_{16}$"	23⅝"	2 ft.	8 ft.	9	**13D470**
		3 ft.	12 ft.	9	**13D471**
		6 ft.	24 ft.	9	**13D472**
31$^{7}/_{16}$"	29¼"	3 ft.	12 ft.	10	**13D474**
		6 ft.	24 ft.	10	**13D475**
Steel Skate Wheels					
20⅜"	18"	6 ft.	24 ft.	7	**13D469**
25$^{13}/_{16}$"	23⅝"	2 ft. 6"	8 ft.	9	**13D477**
		3 ft. 9"	12 ft.	9	**13D478**
		6 ft.	24 ft.	9	**13D473**
		7 ft. 6"	24 ft.	9	**13D479**
31$^{7}/_{16}$"	29¼"	6 ft.	24 ft.	10	**13D476**

Item	For Between Frame Width	Item No.
Accessories		
Package Stop	18"	**13D480**
Package Stop	23⅝"	**13D481**
Conveyor Connecting Hook	—	**13D485**


High Strength


Nonmarring


Lightweight Corrosion-Resistant

Skate Wheels

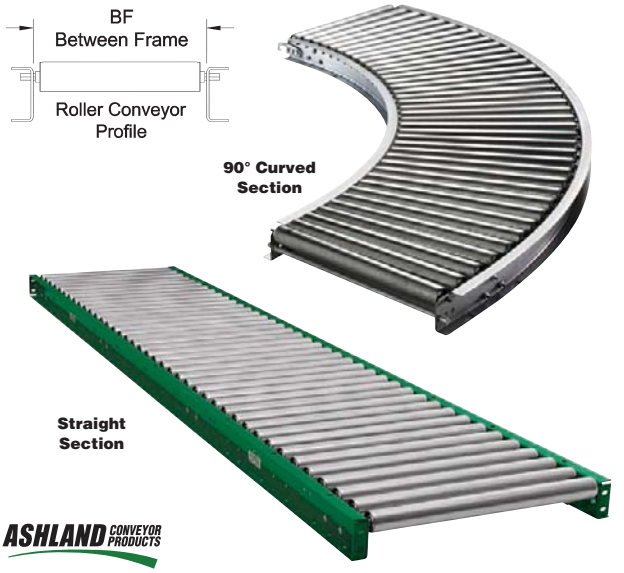
USDI ASHLAND CONVEYOR PRODUCTS

Replacement wheels mount into gravity-flow skate wheel conveyor sections, flow racks, and flow rails to easily move loads with firm, flat bottoms. They roll on ball bearings.

Wheel Dia.	Wheel Bore Diameter	Wheel Width	Hub Width	Wheel Load Capacity	Brand	Item No.	Pkg. Qty.
High Strength Galvanized Steel							
1½"	0.258"	½"	$^{13}/_{16}$"	100 lb.	United Sales	**22FA26**	1
1$^{15}/_{16}$"	0.250"	—	$^{13}/_{16}$"	75 lb.	Ashland Conveyor	**2WKP5**	50
		—	$^{13}/_{16}$"	100 lb.	Ashland Conveyor	**2WKP2**	50
	0.255"	⅝"	$^{13}/_{16}$"	150 lb.	United Sales	**22FA22**	1
	0.318"	⅝"	$^{13}/_{16}$"	150 lb.	United Sales	**22FA24**	1
4"	0.760"	1"	1⅜"	300 lb.	United Sales	**22FA30**	1
Non-Marring Plastic Coated Steel							
2$^{3}/_{16}$"	0.250"	⅝"	$^{13}/_{16}$"	150 lb.	United Sales	**22FA27**	1
	0.312"	⅝"	$^{13}/_{16}$"	150 lb.	United Sales	**22FA28**	1
Non-Marring Plastic							
1$^{15}/_{16}$"	0.250"	—	$^{13}/_{16}$"	75 lb.	Ashland Conveyor	**2WKP3**	50
Lightweight Corrosion-Resistant Aluminum							
1$^{15}/_{16}$"	0.250"	—	$^{13}/_{16}$"	75 lb.	Ashland Conveyor	**2WKP4**	50

H-Stands sold separately on page 1113.

Overall Width	Between Frame Width	Roller Spacing	Load Capacity @ 5 ft. Centers	Roller Dia.	10 FT. STRAIGHT Item No.	90° CURVED Item No.
Light-Duty						
Aluminum Frame, 18 ga. Aluminum Rollers						
12"	10"	1½"	120 lb./ft.	1⅜"	2WJU2	2WJV1
		3"	120 lb./ft.	1⅜"	2WJT7	—
		4½"	120 lb./ft.	1⅜"	2WJU6	—
15"	13"	1½"	120 lb./ft.	1⅜"	2WJU3	2WJV2
		4½"	120 lb./ft.	1⅜"	2WJU7	—
18"	16"	1½"	120 lb./ft.	1⅜"	2WJU4	2WJV3
		3"	120 lb./ft.	1⅜"	2WJT9	—
24"	22"	1½"	120 lb./ft.	1⅜"	2WJU5	2WJV4
		3"	120 lb./ft.	1⅜"	2WJU1	—
		4½"	120 lb./ft.	1⅜"	2WJU9	—
Galvanized Steel Frame, 18 ga. Galvanized Steel Rollers						
12"	10"	1½"	260 lb./ft.	1⅜"	4W569	1PDG1
		4½"	260 lb./ft.	1⅜"	2WJV9	—
15"	13"	1½"	260 lb./ft.	1⅜"	2WJV8	2WJW4
		3"	260 lb./ft.	1⅜"	2WJV7	—
		4½"	260 lb./ft.	1⅜"	2WJW1	—
18"	16"	1½"	260 lb./ft.	1⅜"	4W570	4W573
		4½"	260 lb./ft.	1⅜"	2WJW2	—
24"	22"	1½"	260 lb./ft.	1⅜"	4W571	4W574
		4½"	260 lb./ft.	1⅜"	2WJW3	—
Medium-Duty						
Aluminum Frame, 16 ga. Aluminum Rollers						
12¾"	10"	3"	420 lb./ft.	1 15⁄16"	2WJW9	2WJY3
		4½"	420 lb./ft.	1 15⁄16"	2WJX8	—
		6"	420 lb./ft.	1 15⁄16"	2WJX4	—
15¾"	13"	3"	420 lb./ft.	1 15⁄16"	—	2WJY4
		4½"	420 lb./ft.	1 15⁄16"	2WJX9	—
18¾"	16"	3"	420 lb./ft.	1 15⁄16"	—	2WJY5
		6"	420 lb./ft.	1 15⁄16"	2WJX6	—
24¾"	22"	3"	420 lb./ft.	1 15⁄16"	2WJX3	2WJY6
		4½"	420 lb./ft.	1 15⁄16"	2WJY2	—
Steel Frame, 16 ga. Steel Rollers						
12¾"	10"	3"	600 lb./ft.	1 15⁄16"	4W575	1PDH2
		4½"	600 lb./ft.	1 15⁄16"	2WKA2	—
		6"	600 lb./ft.	1 15⁄16"	2WJZ4	—
15¾"	13"	3"	600 lb./ft.	1 15⁄16"	2WJZ1	2WKA9
		6"	600 lb./ft.	1 15⁄16"	2WJZ5	—
18¾"	16"	3"	600 lb./ft.	1 15⁄16"	4W576	4W580
		4½"	600 lb./ft.	1 15⁄16"	2WKA4	—
		6"	600 lb./ft.	1 15⁄16"	2WJZ6	—
24¾"	22"	3"	600 lb./ft.	1 15⁄16"	4W577	4W581
		4½"	600 lb./ft.	1 15⁄16"	2WKA5	—
		6"	600 lb./ft.	1 15⁄16"	2WJZ7	—
29¾"	27"	3"	600 lb./ft.	1 15⁄16"	2WJZ2	2WKC1
		4½"	600 lb./ft.	1 15⁄16"	2WKA6	—
		6"	600 lb./ft.	1 15⁄16"	2WJZ8	—
33¾"	31"	3"	600 lb./ft.	1 15⁄16"	2WJZ3	2WKC2
		6"	600 lb./ft.	1 15⁄16"	2WJZ9	—
38¾"	36"	3"	600 lb./ft.	1 15⁄16"	4W578	4W582
		4½"	600 lb./ft.	1 15⁄16"	2WKA8	—
		6"	600 lb./ft.	1 15⁄16"	2WKA1	—
Heavy-Duty						
Steel Frame, 11 ga. Steel Rollers						
16"	13"	3"	1050 lb./ft.	2½"	2WKC6	—
		6"	1050 lb./ft.	2½"	2WKC9	—
24"	21"	3"	1050 lb./ft.	2½"	2WKC7	—
30"	27"	3"	1050 lb./ft.	2½"	1PDH9	—
54"	51"	3"	1050 lb./ft.	2½"	1PDJ1	—
Extra Heavy-Duty						
Steel Frame, 11 ga. Steel Rollers						
30 3⁄16	27"	3"	1550 lb./ft.	2½"	42X973	—
42 3⁄16	39"	3"	1550 lb./ft.	2½"	42X974	—
54 3⁄16	51"	3"	1550 lb./ft.	2½"	42X975	—



ASHLAND CONVEYOR PRODUCTS

Steel and Aluminum Roller Conveyors

Roller conveyors move loads along a downward slope, using gravity to reduce effort required in package handling, warehousing, dock, assembly, or inspection tasks. Rollers provide a stable surface for loads with rimmed or uneven bottoms. Loads can be pushed from side-to-side across the full width of the conveyors. Each section consists of rollers with axles attached to rigid frames. Roller conveyors typically offer more weight capacity than skate wheel conveyors. Sections must be supported by compatible conveyor stands, sold separately. Conveyor section load capacity depends on the number and spacing of the support stands.

Aluminum Frame—Lighter than steel for applications with frequent disassembly and reconfiguration of conveyors.

Steel Frame—Stronger than aluminum, with better resistance to abrasion and impacts.

LIGHT-DUTY

For moving low-weight and low-volume items such as pails and bags. Sections have hooks and pins that connect to create custom conveyor lines.

MEDIUM-DUTY

For moving medium-weight drums, pails, and pallets. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

HEAVY-DUTY

For pallets, drums, and other heavy items. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

EXTRA-HEAVY-DUTY

For very heavy items such as large pallets, castings, sheet metal, and metal bins. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

ASHLAND CONVEYOR PRODUCTS

Telescoping Steel-Frame Roller Conveyors

Frame sections slide in and out to expand for conveying tasks or contract for moving and storage. They are suitable for loading and unloading trailers or adding length to an existing conveyor. Unlike flexible-frame conveyors, roller spacing does not change when telescoping conveyors are expanded or collapsed. Telescoping conveyors have adjustable leg height and can provide a slope that keeps items moving along the rollers. Loads weighing 5 to 40 lb. require a slope of 4" to 6" per 10 ft. For loads over 40 lb., a slope of 2" to 4" per 10 ft. is adequate.



Overall Width	Between Frame Width	Min. Length	Max. Length	Roller Spacing	Load Capacity @ 10 ft. Centers	Roller Dia.	Item No.
31¼"	24"	14 ft.	40 ft.	1½"	140 lb./ft.	1⅜"	42X946
		14 ft. 8"	50 ft.	1½"	140 lb./ft.	1⅜"	42X948
		16 ft. 4"	60 ft.	1½"	140 lb./ft.	1⅜"	42X950
39¼"	30"	14 ft.	40 ft.	1½"	140 lb./ft.	1⅜"	42X947
		14 ft. 8"	50 ft.	1½"	140 lb./ft.	1⅜"	42X949
		16 ft. 4"	60 ft.	1½"	140 lb./ft.	1⅜"	42X951

Find more information on Ashland Conveyor Rollers on Grainger.com®.



Lightweight
No. 1VAU6



Corrosion Resistant
No. 1VBE5



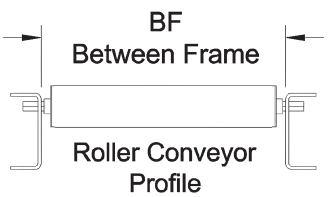
Sprocketed
No. 42X971



High Performance
No. 1VBL2



Nonmarring
No. 1VAT4



Conveyor Rollers

ASHLAND CONVEYOR PRODUCTS

Replacement rollers support and move bulky items on roller conveyors and material transport stands. They help reduce the effort required to move loads.

Lightweight—Commonly used in unpowered (gravity-flow) conveying applications.

General Purpose—For light-duty and medium-duty unpowered (gravity-flow) conveying tasks in warehousing, package handling, manufacturing, and distribution applications.

Corrosion Resistant—Stainless steel conveyor rollers can withstand frequent washdowns, high humidity, exposure to corrosive chemicals, and other harsh conditions that might corrode steel or aluminum rollers. Suitable for conveying applications in facilities that process food, chemicals, or pharmaceuticals.

Sprocketed—For moving heavy items such as pallets, drums, and bulk containers on heavy-duty chain-drive conveyors. Sprocketed rollers have teeth that engage with the drive chain to prevent slipping in dirty or oily conditions.

High Performance—For high-speed conveying tasks on powered conveyor systems in warehousing, transportation, and sorting operations.

High Durability—Have a higher weight capacity and provide more resistance to impact, shock, and abrasion than general purpose steel rollers. For conveying heavy loads such as pallets, drums, and castings.

Nonmarring—Covered with smooth plastic to prevent damaging delicate surfaces or finishes on conveyed items, such as glass or paint. They are quieter than rollers with metal surfaces, and they also provide better traction.

Roller BF	Load Cap.	Material†	Item No.
Lightweight			
1 15/16" Roller Dia. with 1/4" Round Axle			
7"	130 lb.	A	1VAW2
10"	130 lb.	A	1VAW3
13"	107 lb.	A	1VAW4
16"	86 lb.	A	1VAW5
18"	76 lb.	A	1VAW6
22"	62 lb.	A	1VAW7
1 3/8" Roller Dia. with 1/4" Round Axle			
7"	94 lb.	A	1VAT8
10"	94 lb.	A	1VAT9
13"	71 lb.	A	1VAU1
15"	60 lb.	A	1VAU2
16"	56 lb.	A	1VAU3
19"	47 lb.	A	1VAU4
21"	42 lb.	A	1VAU5
22"	40 lb.	A	1VAU6
General Purpose			
1 15/16" Roller Dia. with 1/4" Round Axle			
7"	130 lb.	GS	1VAW9
10"	130 lb.	GS	1VAX1
13"	107 lb.	GS	1VAX2
15"	92 lb.	GS	1VAX3
17"	81 lb.	GS	1VAX4
18"	76 lb.	GS	1VAX5
22"	62 lb.	GS	1VAX6
24"	57 lb.	A	1VAW8
24"	57 lb.	GS	1VAX7
1 15/16" Roller Dia. with 7/16" Hex Axle			
7"	270 lb.	GS	24K702
8"	270 lb.	GS	24K703
9"	270 lb.	GS	24K704
10"	270 lb.	GS	1PDL5
11"	270 lb.	GS	24K705
12"	270 lb.	GS	24K706
13"	270 lb.	GS	1VAX8
14"	270 lb.	GS	24K707
15"	270 lb.	GS	1VAX9
16"	270 lb.	GS	1PDL6
17"	270 lb.	GS	1VAY1
18"	270 lb.	GS	1VAY2
19"	270 lb.	GS	1VAY3
20"	657 lb.	GS	1VBA4
21"	539 lb.	GS	1VBA5
22"	270 lb.	GS	1PDL7
23"	270 lb.	GS	1VAY6
24"	270 lb.	GS	1VAY7
25"	270 lb.	GS	1VAY8
27"	270 lb.	GS	1VAY9
30"	270 lb.	GS	1VAZ1
31"	270 lb.	GS	1VAZ2
33"	270 lb.	GS	1VAZ3
34"	270 lb.	GS	24K712
36"	270 lb.	GS	1PDL8
37"	270 lb.	GS	1VAZ4
38"	270 lb.	GS	24K714
39"	270 lb.	GS	1VAZ5

Roller BF	Load Cap.	Material†	Item No.
40"	270 lb.	GS	24K715
1 15/16" Roller Dia. with 1/4" Round Axle			
43"	270 lb.	GS	24K718
45"	270 lb.	GS	24K720
48"	261 lb.	GS	24K723
49"	256 lb.	GS	24K724
51"	241 lb.	GS	24K726
1 3/8" Roller Dia. with 1/4" Round Axle			
10"	94 lb.	GS	1PDL2
7"	94 lb.	GS	1VAU7
13"	71 lb.	GS	1VAU8
15"	60 lb.	GS	1VAU9
16"	56 lb.	GS	1PDL3
19"	47 lb.	GS	1VAV1
21"	42 lb.	GS	1VAV2
22"	40 lb.	GS	1PDL4
2 1/2" Roller Dia. with 7/16" Hex Axle			
10"	496 lb.	US	2WKH9
13"	496 lb.	GS	38AP34
1 15/16" Roller Dia. with 1/4" Round Axle			
13"	496 lb.	US	2WKJ1
15"	496 lb.	US	2WKJ2
16"	496 lb.	GS	38AP36
16"	496 lb.	US	2WKJ3
18"	443 lb.	GS	38AP38
18"	443 lb.	US	2WKJ5
19"	418 lb.	US	2WKJ6
20"	395 lb.	US	2WKJ7
21"	375 lb.	US	2WKJ8
24"	326 lb.	US	2WKK2
27"	288 lb.	US	2WKK4
30"	258 lb.	US	2WKK5
33"	234 lb.	US	2WKK7
39"	197 lb.	GS	38AP52
Corrosion Resistant			
1 15/16" Roller Dia. with 7/16" Hex Axle			
10"	260 lb.	SS	1VBD1
13"	260 lb.	SS	1VBD2
16"	260 lb.	SS	1VBD4
19"	260 lb.	SS	1VBD7
20"	260 lb.	SS	1VBD8
22"	260 lb.	SS	1VBE1
27"	260 lb.	SS	1VBE5
31"	260 lb.	SS	1VBE7
33"	260 lb.	SS	1VBE8
36"	260 lb.	SS	1VBE9
37"	260 lb.	SS	1VBF1
Sprocketed			
2 1/2" Roller Dia. with 11/16" Hex Axle			
43"	702 lb.	US	42X969
51"	587 lb.	US	42X971
High Performance			
1 15/16" Roller Dia. with 7/16" Hex Axle			
7"	1760 lb.	GS	24K727
8"	1515 lb.	GS	24K728
9"	1330 lb.	GS	24K729
10"	1185 lb.	GS	1VAZ6
11"	1069 lb.	GS	24K730
12"	973 lb.	GS	24K731

Roller BF	Load Cap.	Material†	Item No.
13"	893 lb.	GS	1VAZ7
14"	825 lb.	GS	24K732
15"	767 lb.	GS	1VAZ8
16"	717 lb.	GS	1VAZ9
17"	672 lb.	GS	1VBA1
18"	633 lb.	GS	1VBA2
19"	598 lb.	GS	1VBA3
20"	270 lb.	GS	1VAY4
21"	270 lb.	GS	1VAY5
22"	514 lb.	GS	1VBA6
23"	491 lb.	GS	1VBA7
24"	469 lb.	GS	1VBA8
25"	450 lb.	GS	1VBA9
26"	433 lb.	GS	24K733
27"	416 lb.	GS	1VBB1
28"	402 lb.	GS	24K734
29"	388 lb.	GS	24K735
30"	374 lb.	GS	1VBB2
32"	349 lb.	GS	24K736
33"	338 lb.	GS	1VBB4
34"	328 lb.	GS	24K737
36"	309 lb.	GS	1VBB5
37"	301 lb.	GS	1VBB6
38"	292 lb.	GS	24K739
39"	285 lb.	GS	1VBB7
40"	278 lb.	GS	24K740
41"	271 lb.	GS	24K741
42"	264 lb.	GS	24K742
43"	258 lb.	GS	24K743
45"	246 lb.	GS	24K745
46"	240 lb.	GS	24K746
48"	229 lb.	GS	24K748
49"	225 lb.	GS	24K749
50"	221 lb.	GS	24K750
High Durability			
1 15/16" Roller Dia. with 7/16" Hex Axle			
10"	270 lb.	GS	1VBG7
10"	270 lb.	US	2WKF7
13"	270 lb.	GS	1VBG8
13"	270 lb.	US	2WKF8
15"	270 lb.	GS	1VBG9
15"	270 lb.	US	2WKF9
16"	270 lb.	US	2WKG1
16"	270 lb.	GS	1VBH1
18"	270 lb.	GS	1VBH3
18"	270 lb.	US	2WKG3
19"	270 lb.	GS	1VBH4
19"	270 lb.	US	2WKG4
20"	270 lb.	US	2WKG5
20"	270 lb.	GS	1VBH5
21"	270 lb.	GS	1VBH6
21"	270 lb.	US	2WKG6
22"	270 lb.	GS	1VBH7
22"	270 lb.	US	2WKG7
23"	270 lb.	GS	1VBH8
24"	270 lb.	GS	1VBH9
24"	270 lb.	US	2WKG9

Roller BF	Load Cap.	Material†	Item No.
25"	270 lb.	GS	1VBJ1
25"	270 lb.	US	2WKH1
27"	270 lb.	GS	1VBJ2
27"	270 lb.	US	2WKH2
31"	270 lb.	GS	1VBJ4
33"	270 lb.	US	2WKH5
33"	270 lb.	GS	1VBJ5
37"	270 lb.	US	2WKH7
2 1/2" Roller Dia. with 11/16" Hex Axle			
7"	850 lb.	US	24K752
7"	850 lb.	GS	24K789
8"	850 lb.	US	24K753
8"	850 lb.	GS	24K790
10"	850 lb.	GS	24K791
10"	850 lb.	US	24K754
11"	850 lb.	US	24K755
12"	850 lb.	US	24K756
13"	850 lb.	GS	1VBL9
13"	850 lb.	US	1VBK1
14"	850 lb.	GS	24K794
14"	850 lb.	US	24K757
15"	850 lb.	GS	1VBN1
15"	850 lb.	US	1VBK2
16"	850 lb.	US	24K758
16"	850 lb.	GS	24K795
17"	850 lb.	US	24K759
19"	850 lb.	US	1VBK4
19"	850 lb.	GS	1VBN3
20"	850 lb.	US	24K760
20"	850 lb.	GS	24K797
21"	850 lb.	GS	1VBN4
21"	850 lb.	US	1VBK5
22"	850 lb.	US	24K761
22"	850 lb.	GS	24K798
23"	850 lb.	US	1VBK6
23"	850 lb.	GS	1VBN5
24"	850 lb.	GS	24K799
26"	850 lb.	GS	24K763
26"	850 lb.	GS	24K801
27"	850 lb.	US	1VBK8
27"	850 lb.	GS	1PDL9
28"	850 lb.	US	24K764
28"	850 lb.	GS	24K802
31"	850 lb.	US	1VBL1
31"	850 lb.	GS	1VBN8
32"	850 lb.	GS	24K804
32"	850 lb.	US	24K766
33"	850 lb.	GS	1VBN9
33"	850 lb.	US	1VBL2
34"	850 lb.	GS	24K805
34"	850 lb.	US	24K767
36"	846 lb.	GS	24K807
36"	846 lb.	US	24K769

Roller BF	Load Cap.	Material†	Item No.
37"	822 lb.	US	1VBL3
37"	822 lb.	GS	1VBP1
38"	799 lb.	US	24K770
38"	799 lb.	GS	24K808
39"	777 lb.	GS	1VBP2
39"	777 lb.	US	1VBL4
40"	757 lb.	US	24K771
40"	757 lb.	GS	24K809
41"	738 lb.	US	24K772
41"	738 lb.	GS	24K810
42"	719 lb.	GS	24K811
42"	719 lb.	US	24K773
43"	702 lb.	GS	1VBP3
43"	702 lb.	US	1VBL5
44"	685 lb.	GS	24K812
44"	685 lb.	US	24K774
45"	669 lb.	US	24K775
45"	669 lb.	GS	24K813
46"	654 lb.	US	24K776
46"	654 lb.	GS	24K814
48"	626 lb.	GS	24K815
48"	626 lb.	US	24K777
49"	612 lb.	GS	24K816
49"	612 lb.	US	24K778
50"	600 lb.	US	24K779
50"	600 lb.	GS	24K817
2 5/8" Roller Dia. with 11/16" Hex Axle			
13"	850 lb.	US	1VBP6
15"	850 lb.	US	1VBP7
19"	850 lb.	US	1VBP9
21"	850 lb.	US	1VBR1
23"	850 lb.	US	1VBR2
27"	850 lb.	US	1VBR4
31"	850 lb.	US	1VBR6
33"	850 lb.	US	1VBR7
37"	822 lb.	US	1VBR8
39"	777 lb.	US	1VBR9
43"	702 lb.	US	1VBT1
Nonmarring			
1 15/16" Roller Dia. with 7/16" Hex Axle			
10"	60 lb.	PVC	1VBB8
10"	270 lb.	GS	42X933
13"	60 lb.	PVC	1VBB9
16"	60 lb.	PVC	1VBC2
16"	270 lb.	GS	42X936
17"	60 lb.	PVC	1VBC3
18"	60 lb.	PVC	1VBC4
21"	53 lb.	PVC	1VBC6
21"	270 lb.	GS	42X940
22"	48 lb.	PVC	1VBC7
24"	40 lb.	PVC	1VBC8
24"	270 lb.	GS	42X942
30"	25 lb.	PVC	1VBC9
13/16" Roller Dia. with 1/4" Round Axle			
4"	20 lb.	PVC	1VAT3
6"	20 lb.	PVC	1VAT4
10"	20 lb.	PVC	1VAT6

† A=Aluminum, GS=Galvanized Steel, PVC=PVC Plastic, SS=Stainless Steel, US=Unfinished Steel

For Axle	Bearing OD	Flange Outside Dia.	Overall Width	Bearing Load Rating	Item No.	
Close-Tolerance Conveyor Roller Bearings						
7/16" Hex	1.125"	1 1/4"	7/16"	80 lb.	**22FA88**	
	1.500"	1 5/8"	1/2"	175 lb.	**22FA90**	
1/2" Hex	1.500"	1 5/8"	11/16"	175 lb.	**22FA94**	
3/4" Hex	2.000"	2 13/16"	3/4"	240 lb.	**22FA96**	
General Purpose Conveyor Roller Bearings						
1/4" Hex	0.878"	15/16"	3/8"	40 lb.	**22FA33**	
5/16" Round	0.878"	15/16"	3/8"	40 lb.	**22FA34**	
5/16" Hex	0.908"	1"	7/16"	35 lb.	**22FA31**	
	1.277"	1 3/8"	5/8"	47 lb.	**22FA39**	
3/8" Hex	0.908"	1"	7/16"	35 lb.	**22FA32**	
	1.502"	1 5/8"	3/4"	145 lb.	**22FA45**	
	1.703"	1 7/8"	1/2"	140 lb.	**22FA58**	
7/16" Hex	1.712"	—	1 1/16"	300 lb.	**22FA55**	
	1.753"	1 7/8"	5/8"	140 lb.	**22FA52**	
	1.780"	1 7/8"	1/2"	140 lb.	**22FA59**	
1/2" Round	1.502"	1 5/8"	3/4"	145 lb.	**22FA46**	
5/8" Hex	1.958"	—	1 3/16"	200 lb.	**22FA98**	
	2.000"	2 1/8"	1"	225 lb.	**22FA61**	
11/16" Hex	2.270"	2 7/16"	1 3/16"	425 lb.	**22FA62**	
	2.329"	—	3/8"	300 lb.	**22FA99**	
1 1/16" Hex	3.066"	—	1 1/8"	603 lb.	**22FA72**	

**** Relube holes on inner race.***

For Axle	Bearing OD	Flange Outside Dia.	Overall Width	Bearing Load Rating	Item No.	
Heavy-Duty Precision Conveyor Roller Bearings						
11/16" Hex	2.256"	2 1/2"	1 1/8"	1500 lb.	**22FA66**	
	2.265"	2 1/2"	1 1/2"	2450 lb.	**22FA81**	*
	2.265"	—	1 1/2"	2450 lb.	**22FA79**	*
1 1/16" Hex	3.073"	—	1 1/16"	4300 lb.	**22FA82**	
Sealed Close-Tolerance Conveyor Roller Bearings for Harsh Environments						
3/8" Hex	1.125"	1 1/4"	1/2"	80 lb.	**22FA87**	
	1.375"	1 1/2"	9/16"	140 lb.	**22FA89**	
7/16" Hex	1.750"	1 7/8"	11/16"	195 lb.	**22FA91**	
	2.125"	2 1/4"	3/4"	330 lb.	**22FA93**	
5/8" Hex	1.750"	1 7/8"	13/16"	195 lb.	**22FA95**	
Sealed General Purpose Conveyor Roller Bearings for Harsh Environments						
	1.53"	1 5/8"	11/16"	145 lb.	**22FA44**	
7/16" Hex	1.628"	1 3/4"	11/16"	125 lb.	**22FA50**	
	1.879"	2"	13/16"	190 lb.	**22FA60**	
	2.260"	2 1/2"	1 1/8"	1000 lb.	**22FA80**	
11/16" Hex	2.270"	2 7/16"	1 3/16"	425 lb.	**22FA63**	
	2.270"	2 7/16"	1 3/16"	425 lb.	**22FA64**	
	2.270"	2 7/16"	1 3/16"	425 lb.	**22FA65**	
	2.270"	2 7/16"	1 3/16"	425 lb.	**22FA71**	
	3.066"	—	1 1/4"	603 lb.	**22FA73**	
1 1/16" Hex	3.066"	—	1 1/4"	603 lb.	**22FA74**	*
	3.066"	—	1 3/16"	603 lb.	**22FA75**	
	3.066"	—	1 1/4"	603 lb.	**22FA76**	



Round Axle
No. 22FA46



Hex Axle
No. 22FA82

USDI

Conveyor Roller Bearings

Replace worn or damaged bearings to repair seized rollers and prevent conveyor downtime or malfunction. Sealed bearings prevent dirt and moisture from causing damage and malfunction in wet, humid, dirty, or hot conditions. Close-tolerance bearings fit tighter than general purpose bearings to spin more freely and at higher speeds.

Surface Mount L-Shaped Conveyor Mounting Brackets

ASHLAND CONVEYOR PRODUCTS

Bolt-on, steel construction allows conveyor rollers to be mounted without a conveyor system. L-brackets are commonly used to build custom conveying racks and stands for supporting and moving materials in sawing, machining, and metalworking operations. Mounting hardware sold separately.

For Axle Shape	For Axle Size	Item No.
Round	1/4"	**42X888**
Hex	5/16"	**42X889**
Hex	7/16"	**42X890**
Hex	11/16"	**42X891**



No.
42X888

Find more Conveyor Roller Cover styles at Grainger.com®.

For Roller Diameter	Overall Length	I.D. Before Shrinking	I.D. After Shrinking	Roller Cover Material	Color	Item No.	
Straight							
1 3/8"	5 ft.	1 1/2"	3/4"	PVC	Black	**11A352**	
	5 ft.	1 1/2"	3/4"	PVC	Orange	**11A356**	
1 29/32 to 2"	5 ft.	2 1/16"	1"	Elastomer	Black	**49U108**	
	50 ft.	2 1/16"	1"	Elastomer	Black	**49U109**	
2"	5 ft.	2 1/16"	1"	PVC	Black	**11A353**	
	5 ft.	2 1/16"	1"	PVC	Orange	**11A357**	
	5 ft.	2 1/16"	1"	PVC	White	**11C791**	*
2 1/2"	5 ft.	2 9/16"	1 1/2"	PVC	Black	**11A354**	
	5 ft.	2 9/16"	1 1/2"	PVC	Orange	**11A358**	
Tapered							
2 1/2"	5 ft.	2 9/16"	1 1/4"	PVC	Black	**11A355**	
	5 ft.	2 9/16"	1 1/4"	PVC	Orange	**11A359**	

**** Meets FDA 21 CFR Standards for food-grade applications.***

VINYL GUARD®

Heat Shrink Conveyor Roller Covers



Tubing shrinks via heat gun to fit tightly over straight and tapered rollers. Protects delicate surfaces and reduces noise and vibration. Resistant to abrasion, chemicals, oils, grease, acids, chlorinated cleansers, moisture, and corrosion. Easy to clean. Nos. 49U108 and 49U109 are made from elastomer, which grips conveyed items as they pass over the roller and prevents them from slipping on the conveyor.

Flow Rails

ASHLAND CONVEYOR PRODUCTS

Each straight flow rail has a single row of skate wheels, ball transfers, or rollers to guide cartons, totes, pallets, and other flat-bottomed items in conveying applications. Multiple flow rails can be installed side by side to create a flow rack, and they can also be mounted to surfaces, floors, or walls. Skate wheels attach to channel shapes or angles.

Note: Recommended 3-wheel min. under load.

Flange Side	Overall Length	Overall Width	Wheels per Ft.	Wheel Alignment	Wheel Dia.	Skate Wheel Material	Item No.
Light-Duty Controlled-Tracking Flanged Skate Wheel Flow Rails							
35 lb./ft. (5 ft. Supports) Max. Capacity							
Left Hand	10 ft.	3 13/16"	4	Inline	1 5/8"	Plastic	**42X990**
40 lb./ft. (5 ft. Supports) Max. Capacity							
Left Hand	5 ft.	4 7/8"	4	Inline	2"	Steel	**42X992**
Right Hand	10 ft.	4 7/8"	4	Inline	2"	Steel	**42X993**
Light-Duty General Purpose Skate Wheel Flow Rails							
35 lb./ft. (5 ft. Supports) Max. Capacity							
—	5 ft.	3"	4	Inline	1 5/8"	Plastic	**42X985**
—	10 ft.	3"	4	Inline	1 5/8"	Plastic	**42X986**
195 lb./ft. (5 ft. Supports) Max. Capacity							
—	5 ft.	2 1/4"	4	Inline	1 15/16"	Steel	**2WGY5**
—	5 ft.	2 1/4"	8	Staggered	1 15/16"	Steel	**2WGY4**
—	5 ft.	2 13/16"	4	Inline	1 15/16"	Steel	**2WGY7**
—	10 ft.	2 1/4"	4	Inline	1 15/16"	Steel	**2WGY9**
—	10 ft.	2 1/4"	8	Staggered	1 15/16"	Steel	**2WGY8**
250 lb./ft. (5 ft. Supports) Max. Capacity							
—	5 ft.	5 1/4"	16	Staggered	1 15/16"	Steel	**42X931**
—	10 ft.	5 1/4"	16	Staggered	1 15/16"	Steel	**42X930**
260 lb./ft. (5 ft. Supports) Max. Capacity							
—	5 ft.	3 3/8"	8	Staggered	1 15/16"	Steel	**2WGY6**
—	10 ft.	2 13/16"	4	Inline	1 15/16"	Steel	**1PDF8**
—	10 ft.	3 3/8"	8	Staggered	1 15/16"	Steel	**1PDF9**



Staggered
Skate Wheel



Ball Transfer,
Flange Style



Inline Right-
Hand Flanged
Skate Wheel



Roller
Flow Rail

Overall Length	Overall Width	Ball Spacing	Ball Diameter	Ball Material	THREADED STUD BALL Item No.	FLANGE BALL Item No.
Light-Duty Multi-Directional Ball Transfer Flow Rails						
120 lb./ft. (5 ft. Supports) Max. Capacity						
5 ft.	2"	2"	5/8"	Steel	**42X929** *	—
5 ft.	2 1/2"	6"	1"	Steel	**2WGX8**	**2TVR3**
5 ft.	2 1/2"	3"	1"	Steel	**2LTZ1**	**2TVR2**
10 ft.	2 1/2"	6"	1"	Steel	**2WGY3**	**2WGY2**

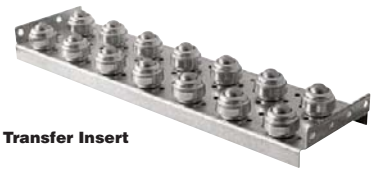
Overall Length	Overall Width	Roller Spacing	Roller Dia.	Roller Material	Item No.
Heavy-Duty Roller Flow Rails					
1050 lb./ft. (5 ft. Supports) Max. Capacity					
5 ft.	7"	3"	2 1/2"	Steel	**42X928**
10 ft.	7"	3"	2 1/2"	Steel	**42X927**

**** Low profile.***

Find more information on Ball Transfer Table selection on Grainger.com®.



Ball Transfer Table (H-Stand Sold Separately)



Ball Transfer Insert

Ball Transfer Tables

- Steel ball construction
- H-stands sold separately

Ball transfer tables have ball transfers attached to rigid frames. They allow flat-bottomed loads to roll from one place to another, reducing the effort required to move loads. Ball transfers allow loads to move in all directions, and are typically installed at the start and end of conveyor systems, or at points where loads need to change direction.

Note: The length and width of the smallest conveyed item should be at least three times the table's ball spacing dimension, and the heaviest conveyed item must weigh less than the combined capacity of the ball transfers supporting it.

BALL TRANSFER TABLES

Tables attach to compatible medium-duty roller conveyors and stands to allow conveyed items to move in all directions at transition points.

BALL TRANSFER INSERTS

Can replace rollers in light- and medium-duty roller conveyor sections. Inserts are plates with ball transfers attached.

Overall Width	Between Frame Width	Overall Length	Load Capacity @ 5 ft. Centers	Ball Load Capacity	Item No.
Ball Transfer Tables					
3" Ball Spacing					
12¾"	10"	2 ft.	600 lb./ft.	75 lb.	**42X844**
24¾"	22"	2 ft.	600 lb./ft.	75 lb.	**3MY65**
29¾"	27"	3 ft.	350 lb./ft.	75 lb.	**42X850**
29¾"	27"	4 ft.	350 lb./ft.	75 lb.	**42X852**
38¾"	36"	4 ft.	500 lb./ft.	75 lb.	**3MY73**
4" Ball Spacing					
12¾"	10"	1 ft.	600 lb./ft.	75 lb.	**42X843**
24¾"	22"	2 ft.	500 lb./ft.	75 lb.	**42X838**
24¾"	22"	3 ft.	500 lb./ft.	75 lb.	**42X839**
24¾"	22"	4 ft.	500 lb./ft.	75 lb.	**42X840**
29¾"	27"	3 ft.	350 lb./ft.	75 lb.	**42X851**
29¾"	27"	4 ft.	350 lb./ft.	75 lb.	**42X853**
38¾"	36"	4 ft.	250 lb./ft.	75 lb.	**42X841**
Ball Transfer Inserts					
2" Ball Spacing					
—	27"	5⅞"	175 lb./ft.	75 lb.	**42X855**
3" Ball Spacing					
—	10"	5⅞"	—	75 lb.	**3MY67**
—	13"	5⅞"	375 lb./ft.	75 lb.	**42X854**
—	16"	5⅞"	—	75 lb.	**3MY74**
—	22"	5⅞"	250 lb./ft.	75 lb.	**3MY75**
—	36"	5⅞"	125 lb./ft.	75 lb.	**3MY76**
Replacement Ball Transfer					
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing					
—	—	—	—	75 lb.	**3MY68**



Countersunk Flange No. 1YXB2



Drop-In No. 1PDY2



Flange No. 1PDY3



Internally Threaded Pipe No. 2WHD1



Threaded Stud No. 3MY68

Ball Transfers

Replace existing ball transfers in ball transfer tables, inserts, and stands, or use to create a custom conveying installation. Mount at conveyor entrances, intersections, or exits to reduce the effort required for moving loads in warehousing, package handling, manufacturing, and distribution applications.

Countersunk Flange Style—Each has a flanged mounting plate that installs into a countersunk hole for limited-space applications. They fasten from the front.

Ball Diameter	Ball Load Capacity	Projection	Housing Diameter	Item No.
Countersunk Flange				
Carbon Steel Ball with Black Oxide Steel Housing				
1"	135 lb.	5/16"	1 3/16"	**38LU63**
1"	150 lb.	3/16"	1 3/16"	**2WGZ9**
1 1/8"	200 lb.	3/16"	1 1/4"	**2WGZ2**
1 1/4"	225 lb.	1 1/2"	2"	**38LU59**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
5/8"	20 lb.	3/8"	15/16"	**1YXB2**
1"	75 lb.	5/8"	1 1/2"	**1YXB7**
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1"	35 lb.	3/4"	1 3/4"	**1YXB3**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1"	75 lb.	5/8"	2 1/4"	**1YXB8**
1"	75 lb.	3/4"	1 3/4"	**1YXB5**
Drop-In				
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
5/8"	33 lb.	3/8"	1 3/16"	**1PDY2**
1"	200 lb.	5/8"	1 43/64"	**1PDX9**
1 3/16"	500 lb.	1/2"	2"	**1PDY4**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1 3/16"	500 lb.	1/2"	2"	**1PDY8**
Flange				
Carbon Steel Ball with Black Oxide Steel Housing				
1"	135 lb.	1/4"	1 3/16"	**38LU65**
1"	135 lb.	1/4"	1 3/16"	**38LU68**

Drop-in Style—Designed to press-fit into drilled holes without fasteners. Low profile, for limited-space applications.

Flange Style—Each has a flanged mounting plate that fastens in place from the front.

Ball Diameter	Ball Load Capacity	Projection	Housing Diameter	Item No.
1 1/8"	180 lb.	5/16"	1 5/16"	**38LU66**
1 1/4"	225 lb.	3/8"	1 7/16"	**38LU67**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
1"	75 lb.	5/16"	1 11/16"	**3MY77**
1 1/2"	250 lb.	1 13/16"	2 9/16"	**1PDY3**
1 1/2"	250 lb.	2 1/16"	2 9/16"	**1YXA9** *
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1"	35 lb.	5/16"	1 11/16"	**3MY78**
1 1/2"	125 lb.	1 3/16"	2 9/16"	**1YXA6**
Nylon Ball with Stainless Steel Housing				
1"	35 lb.	1 3/16"	1 11/16"	**1YXA4**
1 1/2"	125 lb.	1 3/16"	2 9/16"	**1YXA7**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1"	75 lb.	1 3/16"	1 11/16"	**1YXA5**
1 1/2"	250 lb.	1 13/16"	2 9/16"	**1YXA8**
Stainless Steel Ball with Stainless Steel Housing				
1"	75 lb.	1 3/16"	1 11/16"	**1PDY6**
1 1/2"	250 lb.	1 13/16"	2 9/16"	**1PDY7**
1 1/2"	250 lb.	2 1/16"	2 9/16"	**1YXB1** *
Flange/Threaded-Stud				
Carbon Steel Ball with Black Oxide Steel Housing				
1 1/8"	200 lb.	5/16"	1-5/16"	**38LU69**

Internally Threaded Pipe Style—Transfers mount onto externally threaded NPT pipe couplings. Commonly installed on pipe pedestals to position materials for metal-forming machinery such as shears or press breaks.

Threaded Stud Style—Each has a threaded stud that screws into a tapped hole and secures with a nut. They fasten from the back.

Ball Diameter	Ball Load Capacity	Projection	Housing Diameter	Item No.
Internally Threaded Pipe				
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
1 1/2"	250 lb.	3 13/16"	3"	**2WHD2**
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1 1/2"	125 lb.	3 13/16"	3"	**2WHD1**
Threaded Stud				
Carbon Steel Ball with Black Oxide Steel Housing				
1"	150 lb.	1/4"	1 3/16"	**38LU72**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
5/8"	33 lb.	1/8"	1 3/16"	**1PDY1**
1"	75 lb.	1 3/8"	1 3/4"	**3MY68**
1"	75 lb.	1 3/8"	1 3/4"	**1YVZ7**
1"	200 lb.	1/4"	1 11/16"	**1PDX7**
1 1/2"	250 lb.	2 5/16"	2 9/16"	**1YXA2**
1 1/2"	250 lb.	2 5/16"	2 9/16"	**1YXA3** *
Nylon Ball with Galvanized Zinc Plated Steel Housing				
5/8"	17 lb.	1/8"	1 3/16"	**1YVZ3**
1"	35 lb.	1 3/8"	1 3/4"	**1PDY9**
1"	35 lb.	1 3/8"	1 3/4"	**1YVZ5**
1"	100 lb.	1 1/4"	1 3/8"	**1YXA1**
Nylon Ball with Stainless Steel Housing				
1"	35 lb.	1 3/8"	1 3/4"	**1YVZ4**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1"	75 lb.	1 3/8"	1 3/4"	**1YVZ8**
Stainless Steel Ball with Stainless Steel Housing				
1"	75 lb.	1 3/8"	1 3/4"	**1YVZ9**

** Includes cushion.*

Find more information on Conveyor Stand selection on Grainger.com®.

GA GRAINGER APPROVED

Roller Material Support and Transfer Tables

- 500-lb. load capacity

Portable roller tables provide stability to feed material into or out of machinery in machine shops, woodshops, and fabrication facilities. Table height can be adjusted to keep material aligned for the intended tool or process.



No. 2YE11

Roller Width	Overall Width	Overall Length	Min. Height	Max. Height	Item No.
13"	26½"	1 ft. 5"	26½"	43½"	2YE11
22"	15"	5 ft. 6"	26½"	43½"	4FE14
23⅜"	24"	5 ft. 6"	26½"	43½"	2YE12

GA GRAINGER APPROVED

Material Support and Transfer Stands

Portable flat roller stands each have a single roller to support flat-bottomed sheets, planks, and bars. Portable V-roller stands each have two rollers in a V-shape to cradle cylindrical materials.



No. 33VE08



No. 33VE16

Overall Width	For Between Frame Width	Min. Height	Max. Height	Stand Load Capacity	Color	Item No.
Flat Roller						
15⅝"	14"	23"	38½"	1760 lb.	Gray	33VE10
	14"	27"	42"	1760 lb.	Gray	33VE11
16¾"	16½"	22½"	35½"	500 lb.	White	33VE08
	16½"	28½"	47½"	500 lb.	White	33VE09
V-Roller						
12¾"	8⅞"	23"	38⅛"	1760 lb.	Gray	33VE16
	8⅞"	27"	42"	1760 lb.	Gray	33VE17
16¾"	8⅜"	28"	45"	500 lb.	White	33VE13

GA GRAINGER APPROVED

Temporary Tripod Conveyor Support Stands

- 400-lb. capacity

Stands can temporarily support straight or curved sections of gravity-flow skate wheel or light-duty roller conveyors. Height adjusts to create a level or sloped conveying surface.



No. 3W432

For Between Frame Width	Min. Height	Max. Height	Overall Width	Item No.
10"	16"	27"	12"	2WJL5
	25"	43"	12"	3W432
	42"	60"	12"	2WJL6
13"	16"	27"	15"	2WJL7
	25"	43"	15"	2WJL8
	42"	60"	15"	2WJL9
16"	16"	27"	18"	2WJN1
	25"	43"	18"	3W433
	42"	60"	18"	2WJN2
22"	16"	27"	24"	2WJN3
	25"	43"	24"	3MY71
	42"	60"	24"	2WJN4

GA GRAINGER APPROVED

Low-Profile Permanent Mount Conveyor Support Stands

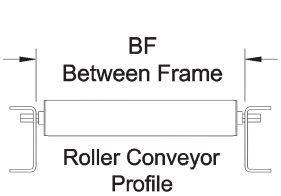
- 2500-lb. load capacity per pair

Stands permanently mount light to extra-heavy duty conveyor sections close to the floor. Suitable for items that are too tall or too heavy to be lifted far off the ground.



No. 38AP28

Min. Height	Max. Height	Item No.
1⅞"	3"	38AP28
2 1⅛"	4⅜"	38AP29
4⅜"	5"	38AP30
4 1⅛"	5⅝"	38AP31
5⅝"	6⅝"	38AP32





Portable Single-Tier



Stationary Multitier

GA GRAINGER APPROVED ASHLAND CONVEYOR PRODUCTS

H-Style Conveyor Support Stands

Stands support conveyor sections and can be adjusted to create a level or sloped conveying surface. Pivoting mounting brackets allow sloped installations. Choose an H-stand based on between-frame (BF) dimension and duty rating.

Note: Range of adjusted height is to top of H-stand.

Note: For a stand-alone conveyor, a min. of two supports is required. For two sections of conveyor, a min. of three supports is required (the middle stand supports both sections).

STATIONARY SINGLE-TIER

Stands bolt to the floor to provide permanent support for powered or unpowered (gravity-flow) conveyors.

STATIONARY MULTITIER

Stands each have two tiers for gravity-flow skate wheel or roller conveyors. Can help create multi-level flow racks. Each level has adjustable height.

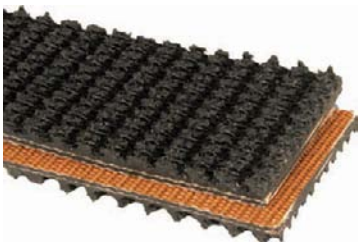
PORTABLE SINGLE-TIER

Stands have casters that make skate wheel and roller conveyor sections portable. Brakes prevent the stands from rolling when locked.

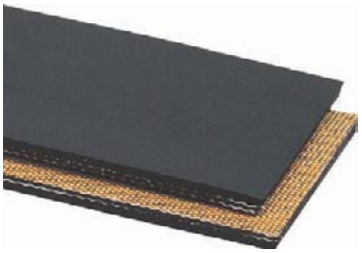
For Between Frame Width	Overall Width	Min. Height	Max. Height	Brand	Item No.
Portable Single-Tier					
Light- to Medium-Duty — 1800 lb. Load Cap.					
13"	13"	22⅞"	32⅝"	GA	2WJK3
16"	16"	22⅞"	32⅝"	GA	1PDP3
22"	22"	22⅞"	32⅝"	GA	1PDP4
27"	27"	22⅞"	32⅝"	GA	2WJK4
—	36"	22⅞"	32⅝"	GA	1PDP5
Permanent Mounted Multi-Tier H-Stand					
Light- to Extra Heavy-Duty — 2500 lb. Load Cap.					
10"	10"	3¾"	46"	Ashland Conveyor	6GKK3
	10"	3¾"	82"	Ashland Conveyor	6GKL0
13"	13"	3¾"	46"	Ashland Conveyor	6GKK4
	13"	3¾"	82"	Ashland Conveyor	6GKL1
16"	16"	3¾"	46"	Ashland Conveyor	6GKK5
	16"	3¾"	82"	Ashland Conveyor	6DKX7
22"	22"	3¾"	46"	Ashland Conveyor	6GKK6
	22"	3¾"	82"	Ashland Conveyor	6DKX8
27"	27"	3¾"	46"	Ashland Conveyor	6GKK7
	27"	3¾"	82"	Ashland Conveyor	6DKX9
31"	31"	3¾"	46"	Ashland Conveyor	6GKK8
	31"	3¾"	82"	Ashland Conveyor	6DKY0
36"	36"	3¾"	46"	Ashland Conveyor	6GKK9
Permanent Mounted H-Stand					
Light- to Medium-Duty — 1500 lb. Load Cap.					
10"	10"	19½"	31"	GA	5W812
	10"	31"	43"	GA	5W813
	10"	43"	55"	Ashland Conveyor	42X892
	10"	55"	67"	Ashland Conveyor	42X899
	10"	67"	79"	Ashland Conveyor	42X907
	10"	79"	109"	Ashland Conveyor	42X914
13"	13"	19½"	31"	GA	2WJJ6
	13"	31"	43"	GA	2WJJ9
	13"	43"	55"	Ashland Conveyor	42X893
	13"	55"	67"	Ashland Conveyor	42X901
	13"	67"	79"	Ashland Conveyor	42X908
	13"	79"	109"	Ashland Conveyor	42X915
16"	17"	19½"	31"	GA	5W814
	16"	31"	43"	GA	5W815
	16"	43"	55"	Ashland Conveyor	42X894
	16"	55"	67"	Ashland Conveyor	42X902
	16"	67"	79"	Ashland Conveyor	42X909
	16"	79"	109"	Ashland Conveyor	42X916

For Between Frame Width	Overall Width	Min. Height	Max. Height	Brand	Item No.
22"	22"	31"	43"	GA	5W817
	22"	43"	55"	Ashland Conveyor	42X895
	22"	55"	67"	Ashland Conveyor	42X903
	22"	67"	79"	Ashland Conveyor	42X910
	22"	79"	109"	Ashland Conveyor	42X917
27"	27"	19½"	31"	GA	2WJJ7
	27"	31"	43"	GA	2WJK1
	27"	43"	55"	Ashland Conveyor	42X896
	27"	55"	67"	Ashland Conveyor	42X904
	27"	67"	79"	Ashland Conveyor	42X911
	27"	79"	109"	Ashland Conveyor	42X918
31"	31"	19½"	31"	GA	2WJJ8
	31"	31"	43"	GA	2WJK2
	31"	43"	55"	Ashland Conveyor	42X897
	31"	55"	67"	Ashland Conveyor	42X905
	31"	67"	79"	Ashland Conveyor	42X912
	31"	79"	109"	Ashland Conveyor	42X919
36"	36"	19½"	31"	GA	5W818
	36"	31"	43"	GA	5W819
	36"	43"	55"	Ashland Conveyor	42X898
	36"	55"	67"	Ashland Conveyor	42X906
	36"	67"	79"	Ashland Conveyor	42X913
	36"	79"	109"	Ashland Conveyor	42X920
Heavy-Duty — 3000 lb. Load Cap.					
13"	13"	16½"	26¼"	GA	2WJK8
	13"	25¾"	36¾"	GA	2WJL2
21"	21"	16½"	26¼"	GA	2WJK9
	21"	25¾"	36¾"	GA	2WJL3
27"	27"	25¾"	36¾"	GA	1PDR1
39"	39"	25¾"	36¾"	GA	2WJL4
51"	51"	12¼"	17"	GA	1PDP7
	51"	25¾"	36¾"	GA	1PDR2
Extra Heavy-Duty — 5000 lb. Load Cap.					
27"	27"	17"	27¼"	Ashland Conveyor	42X979
	27"	25"	41½"	Ashland Conveyor	42X982
39"	39"	17"	27¼"	Ashland Conveyor	42X980
	39"	25"	41½"	Ashland Conveyor	42X983
51"	51"	17"	27¼"	Ashland Conveyor	42X981
	51"	25"	41½"	Ashland Conveyor	42X984

For Between Frame Width	Brand	Item No.
Tier Addition Kits for Light- to Extra Heavy-Duty Conveyors		
13"	Ashland Conveyor	6DKY3
16"	Ashland Conveyor	6DKY4
27"	Ashland Conveyor	6DKY6
31"	Ashland Conveyor	6DKY7
36"	Ashland Conveyor	6DKY8



High-Grip



Oil-Resistant



Cleated

Multi-Ply Conveyor Belting

Constructed with an internal layer of strong, woven fabric surrounded by protective top and bottom covers. Replace a worn or damaged conveyor belt to prevent belt malfunction and conveyor downtime. Belts priced by the foot; to order 10 ft. your order quantity must be 10. All belts on this page are black; additional color options available on Grainger.com®.

Low-Friction—Coated to reduce friction so items can slide freely when diverted. It can also travel under accumulated items without damaging them.

Light-Duty—Suitable for conveying lightweight packages with intermittent use.

High-Grip—Textured or coated to increase friction between the belt surface and conveyed items. Suitable for moving items up an incline or keeping items from sliding side-to-side on the belt.

Oil-Resistant—Resists absorbing oils from conveyed items or production environments. Suitable for manufacturing facilities and similar applications with oil exposure.

Low-Stretch—Resists stretching and reduces the chance that the belt will move or slip during conveying tasks. Suitable for applications that require proper belt tension as items are conveyed.

Extreme-Temperature—Withstands exposure to very high or very low temperatures. Suitable for conveying very hot or very cold items and for moving items in industrial refrigerators, freezers, or ovens.

Fire-Retardant—Coated to resist ignition when exposed to flames. Suitable for environments with flammable materials, such as grain elevators and wood shops.

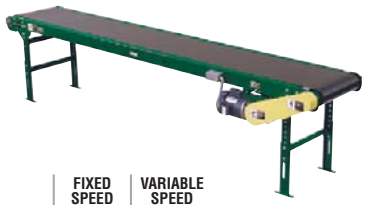
Heavy-Duty—Can withstand demanding conveying applications with heavy loads or continuous use.

Cleated—Has raised ridges that grab items more effectively than high-grip belting. Suitable for moving loose items up a steep incline while preventing them from rolling or sliding off the belt edge.

Conveyor Belt Material	Belt Thickness	For Minimum Pulley Diameter	Maximum Working Tension	Top Surface	6"W Item No.	8"W Item No.	10"W Item No.	12"W Item No.	14"W Item No.	16"W Item No.	18"W Item No.	20"W Item No.	24"W Item No.	30"W Item No.	36"W Item No.
Low-Friction															
PVC	3/32"	4"	150 PIW	Friction	36TC99	36TD01	36TD02	36TD03	36TD04	36TD05	36TD06	36TD07	36TD08	36TD09	36TD10
	7/64"	3"	120 PIW	Friction	36TA03	36TA04	36TA05	36TA06	36TA07	36TA08	36TA09	36TA10	36TA11	36TA12	36TA13
Light-Duty															
PVC	5/64"	1 1/2"	60 PIW	Smooth	36TA33	36TA34	36TA35	36TA36	36TA37	36TA38	36TA39	36TA40	36TA41	36TA42	36TA43
High-Grip															
Polyester	1/8"	2"	100 PIW	Embossed	36TK36	36TK37	36TK38	36TK39	36TK40	36TK41	36TK42	36TK43	36TK44	36TK45	36TK46
	1/8"	2"	100 PIW	Lattice Top	36TL57	36TL58	36TL59	36TL60	36TL61	36TL62	36TL63	36TL64	36TL65	36TL66	36TL67
	3/16"	3"	150 PIW	Roughtop	36TL72	36TL73	36TL74	36TL75	36TL76	36TL77	36TL78	36TL79	36TL80	36TL81	36TL82
	5/16"	2"	150 PIW	Steep-Grade	36TM63	36TM64	36TM65	36TM66	36TM67	36TM68	36TM69	36TM70	36TM71	36TM72	36TM73
PVC	3/32"	1 1/2"	100 PIW	Longitudinal Rib	36TG33	36TG34	36TG35	36TG36	36TG37	36TG38	36TG39	36TG40	36TG41	36TG42	36TG43
	7/64"	1 1/2"	100 PIW	Pebbletop	36TE96	36TE97	36TE98	36TE99	36TF01	36TF02	36TF03	36TF04	36TF05	36TF06	36TF07
	3/16"	3"	120 PIW	Roughtop	36RW35	36RW36	36RW37	36RW38	36RW39	36RW40	36RW41	36RW42	36RW43	36RW44	36RW45
SBR Rubber	9/32"	2"	150 PIW	Roughtop	36RV29	36RV30	36RV31	36RV32	36RV33	36RV34	36RV35	36RV36	36RV37	36RV38	36RV39
	9/32"	4"	150 PIW	Diamond Top	36TF42	36TF43	36TF44	36TF45	36TF46	36TF47	36TF48	36TF49	36TF50	36TF51	36TF52
	5/16"	2 1/2"	150 PIW	V-Top	36RZ87	36RZ88	36RZ89	36RZ90	36RZ91	36RZ92	36RZ93	36RZ94	36RZ95	36RZ96	36RZ97
Oil-Resistant															
Nitrile Rubber	1/8"	4"	200 PIW	Friction	36RX30	36RX31	36RX32	36RX33	36RX34	36RX35	36RX36	36RX37	36RX38	36RX39	36RX40
	1/8"	2"	150 PIW	Smooth	36TC09	36TC10	36TC11	36TC12	36TC13	36TC14	36TC15	36TC16	36TC17	36TC18	36TC19
	1/8"	4"	150 PIW	Smooth	36TJ75	36TJ76	36TJ77	36TJ78	36TJ79	36TJ80	36TJ81	36TJ82	36TJ83	36TJ84	36TJ85
	1/4"	10"	220 PIW	Smooth	36RT26	36RT27	36RT28	36RT29	36RT30	36RT31	36RT32	36RT33	36RT34	36RT35	36RT36
	5/16"	12"	220 PIW	Smooth	36RV59	36RV60	36RV61	36RV62	36RV63	36RV64	36RV65	36RV66	36RV67	36RV68	36RV69
	3/8"	12"	220 PIW	Smooth	36RU83	36RU84	36RU85	36RU86	36RU87	36RU88	36RU89	36RU90	36RU91	36RU92	36RU93
	13/32"	16"	330 PIW	Smooth	36RT41	36RT42	36RT43	36RT44	36RT45	36RT46	36RT47	36RT48	36RT49	36RT50	36RT51
Polyester	3/16"	6"	200 PIW	Friction	36TH24	36TH25	36TH26	36TH27	36TH28	36TH29	36TH30	36TH31	36TH32	36TH33	36TH34
	3/16"	5"	150 PIW	Cover	36TH99	36TJ01	36TJ02	36TJ03	36TJ04	36TJ05	36TJ06	36TJ07	36TJ08	36TJ09	36TJ10
	5/16"	4 11/16"	150 PIW	Waffle Top	36TH84	36TH85	36TH86	36TH87	36TH88	36TH89	36TH90	36TH91	36TH92	36TH93	36TH94
PVC	9/64"	4"	150 PIW	Cover	36TF57	36TF58	36TF59	36TF60	36TF61	36TF62	36TF63	36TF64	36TF65	36TF66	36TF67
Low-Stretch															
PVC	9/64"	3"	120 PIW	Cover	36RW95	36RW96	36RW97	36RW98	36RW99	36RX01	36RX02	36RX03	36RX04	36RX05	36RX06
	11/64"	4"	150 PIW	Cover	36RV44	36RV45	36RV46	36RV47	36RV48	36RV49	36RV50	—	36RV52	36RV53	36RV54
Extreme-Temperature															
EPDM Rubber	3/8"	12"	220 PIW	Smooth	36RT77	36RT78	36RT79	36RT80	36RT81	36RT82	36RT83	36RU45	36RT85	36RT86	36RT87
	3/8"	12"	220 PIW	Smooth	36RU38	36RU39	36RU40	36RU41	36RU42	36RU43	36RU44	36RT84	36RU46	36RU47	36RU48
	1/2"	18"	330 PIW	Smooth	36RT56	36RT57	36RT58	36RT59	36RT60	36RT61	36RT62	36RT63	36RT64	36RT65	36RT66
SBR Rubber	1/4"	12"	220 PIW	Chevron	36RY66	36RY67	36RY68	36RY69	36RY70	36RY71	36RY72	36RY73	36RY74	36RY75	36RY76
Fire-Retardant															
PVC	1/4"	7"	200 PIW	Cover	36RZ42	36RZ43	36RZ44	36RZ45	36RZ46	36RZ47	36RZ48	36RZ49	36RZ50	36RZ51	36RZ52
Heavy-Duty															
PVC	5/64"	1"	100 PIW	Bare	36TD45	36TD46	36TD47	36TD48	36TD49	36TD50	36TD51	36TD52	36TD53	36TD54	36TD55
SBR Rubber	5/32"	4"	150 PIW	Smooth	13R727	13R728	13R729	13R730	13R731	13R732	13R733	13R734	13R735	13R736	13R737
	1/4"	8"	150 PIW	Smooth	—	—	—	36RU71	36RU72	36RU73	36RU74	36RU75	36RU76	36RU77	36RU78
	5/16"	10"	220 PIW	Smooth	36RR89	36RR90	36RR91	36RR92	36RR93	36RR94	36RR95	36RR96	36RR97	36RR98	36RR99
	13/32"	16"	330 PIW	Smooth	36RR47	36RR48	36RR61	36RR62	36RR50	36RR51	36RR65	36RR52	13E773	13E774	13E775
	13/32"	16"	330 PIW	Smooth	36RR59	36RR60	36RR49	13E771	36RR63	36RR64	13E772	36RR66	36RR67	36RR68	36RR69
	9/16"	20"	440 PIW	Smooth	36RR74	36RR75	36RR76	36RR77	36RR78	36RR79	36RR80	36RR81	36RR82	36RR83	36RR84
Cleated															
Nitrile Rubber	5/16"	12"	220 PIW	Chevron	36RT05	36RT06	36RT07	—	36RT08	36RT09	—	36RT10	—	—	—
	5/16"	10"	220 PIW	Chevron	36RT92	36RT93	36RT94	36RT95	36RT96	36RT97	36RT98	36RT99	36RU01	36RU02	36RU03
	5/16"	12"	330 PIW	Chevron	36RV89	36RV90	36RV91	36RV92	36RV93	36RV94	36RV95	36RV96	36RV97	36RV98	36RV99
	3/8"	18"	330 PIW	Chevron	36RT11	36RT12	36RT13	36RT14	36RT15	36RT16	36RT17	36RT18	36RT19	36RT20	36RT21
PVC	3/16"	2"	120 PIW	Crescent	36RV74	36RV75	36RV76	36RV77	36RV78	36RV79	36RV80	36RV81	36RV82	36RV83	36RV84

Medium-Duty Slider Bed Belt Conveyors

ASHLAND CONVEYOR PRODUCTS



General-purpose, powered conveyors are suitable for moving light items and items with small or irregularly shaped bottoms. Each has a motor that moves a wide PVC belt over a metal bed. Friction between the belt and surface helps control speed on declining conveyor sections. The belt also keeps items stable, and moves them at a consistent speed and spacing. Commonly used in sorting, packing, inspection, assembly, testing, manufacturing, distribution, and warehouse applications. Units less than 16-ft. long include 2 adjustable-height H-stands; those longer than 16 ft. include 3 stands. Sealed and prelubricated bearings. 4"D steel beds. Powder-coated steel frames.

Note: Field assembly required; units are nonreversing.

Belt Width	Overall Length	Maximum Load Capacity	FIXED SPEED 60 FPM Item No.	VARIABLE SPEED 6-60 FPM Item No.
18"	6 ft.	475 lb.	1PEB2	2WJN8
	11 ft.	435 lb.	3MY69	2WJN5
	16 ft.	410 lb.	1PEB3	2WJN6
30"	6 ft.	435 lb.	1PEB4	2WJP3
	11 ft.	415 lb.	1PEB5	2WJN9
	16 ft.	380 lb.	1PEB6	2WJP1
	21 ft.	350 lb.	1PEB7	2WJP2

For Use With	Item No.
Replacement Belt for Ashland Slider Bed Conveyors, Black PVC 120	
1PEB2, 2WJN8, 42X867, 42X859	1PEB8
3MY69, 2WJN5, 42X864, 42X856	1PEB9
1PEB3, 2WJN6, 42X865, 42X857	1PEC1
1PEB4, 2WJP3, 42X871, 42X863	1PEC3
1PEB5, 2WJN9, 42X868, 42X860	1PEC4
1PEB6, 2WJP1, 42X869, 42X861	1PEC5
1PEB7, 2WJP2, 42X870, 42X862	1PEC6

FLEXCO

Conveyor Belt Lacing and Lacing Tools

These mechanical fasteners allow conveyor belt installation without having to disassemble the entire system, minimizing downtime. Require tools for application.

Clipper® Lacing—Wire-hook lacing provides a strong grip across the width of the belt and won't weaken the belt's internal support layer, to help retain belt integrity. Low profile minimizes noise, helps reduce lacing wear, and provides a smooth surface.

Alligator® Lacing—Hammer-on lacing provides uniform tension across the width of the belt. Low-profile design minimizes noise, helps prevent lacing wear and tear, and provides a smooth surface. Use on belts of any width. Requires hammer for simple installation.

Staple-Style Alligator Lacing—Conjoined plates provide a strong connection that minimizes flex and fatigue at the joint. Larger surface area improves abrasion resistance. Use in light- and medium-duty applications.

Bolt-Hinge Lacing—Provides a strong joint that can withstand aggressive belt tensioning, and is flexible enough to travel over small pulleys. Conjoined hinged plates are fastened to the ends of a conveyor belt with bolts that can be removed for belt length adjustment.



Clipper® Lacing



Alligator Lacing, Galvanized



Bolt-Hinge Lacing



Clipper® Lacing Tool, #36 Vice Lacer



Clipper® Lacing Tool, 14" Microlacer Installation Tool



Staple Lacing Tool, ST5-5 Ready Set Lacer

Lacing Number	Lacing Length	Belt Thickness	Item No.	Pkg. Qty.
Clipper® Lacing				
Steel				
#1	6"	1/8"–5/32"	2TJU8	24
#2	12"	5/32"–3/16"	2TJV1	12
Stainless Steel				
#1	12"	3/32"–1/8"	2TKH1	12
#2	12"	5/32"–3/16"	13E789	12
Alligator Lacing				
Steel				
#7	12"	3/32"–9/64"	2TJU9	4
#7	24"	3/32"–9/64"	13E791	4
#15	12"	1/8"–5/32"	2TKH5	4
#15	24"	1/8"–5/32"	2TKH6	4
#15	36"	1/8"–5/32"	2TKH7	4
#20	12"	5/32"–3/16"	2TJV2	4
#20	30"	5/32"–3/16"	13E793	4
Stainless Steel				
#7	24"	3/32"–9/64"	13E792	4
#15	12"	1/8"–5/32"	2TKH8	4
#15	24"	1/8"–5/32"	2TKH9	4
#15	36"	1/8"–5/32"	2TKJ1	4

Lacing Number	Lacing Length	Belt Thickness	Item No.	Pkg. Qty.
Staple-Style Alligator Lacing				
Steel				
RS62	12"	1/16"–1/8"	2TKN2	4
RS125	12"	1/8"–3/16"	2TJU6	4
RS125	24"	1/8"–3/16"	2TKJ2	4
RS125	36"	1/8"–3/16"	2TKN5	4
RS187	12"	3/16"–1/4"	2TKJ6	4
RS187	24"	3/16"–1/4"	2TKJ7	4
RS187	36"	3/16"–1/4"	2TKN4	4
Stainless Steel				
RS125	12"	1/8"–3/16"	2TKJ3	4
RS125	24"	1/8"–3/16"	2TKJ4	4
RS125	36"	1/8"–3/16"	2TKJ5	4
RS187	12"	3/16"–1/4"	2TKJ8	4
RS187	24"	3/16"–1/4"	2TKJ9	4
RS187	36"	3/16"–1/4"	2TKK1	4
Bolt-Hinge Lacing				
Steel				
550	18"	1/4"–5/8"	2TKK3	1
550	24"	1/4"–5/8"	2TKK4	1
550	36"	1/4"–5/8"	2TKK5	1
Stainless Steel				
550	48"	1/4"–5/8"	13E797	1

Lacing Tool Type	For Lacing Number	Mfr. Model	Item No.
Clipper Lacing Tools			
Lacers	#36	28000350	2TJV3
	#1	28000355	2TJV4
	#2	28000360	2TJV5
	—	28001425	2TKH4
	#1	28000380	4AVE6
	#2	28000385	4AVE7
	#2-7; #U2-U7	28000362	13E790
Staple-Style Alligator Lacing Tools			
Lacers	#62; 125; 187	28000367	13E795
	RS62, RS125, RS187	28001510	2TKK2
	#62; 125; 187	28000365	2TJV6
Bolt-Hinge Lacing Tools			
Templates	550	28001545	2TKK9
	550	28001550	2TKL1
	550	28001555	2TKL2
Bolt Breaker	550	28001560	2TKL3
Wrench	550	28001570	2TKL5
Power Wrench	550	28001575	2TKL6
Power Boring Bit	550	28001580	2TKL7
Wrench Bit	550	28001585	2TKL8
	550	28001590	2TKL9
Quick Change Chuck	550	28001595	2TKN1

Conveyor Belt Tensioners

BRYANT Products, Inc.

Tensioners simplify bearing changes and help ensure proper tracking, with a modular design that adapts to application needs. An adjusting rod is enclosed in a protective telescoping tube that helps prevent freeze-up. As the rod is turned, the tube extends or retracts to adjust belt tension.

Quick-Release No. 33UL08 has a toggle clamp that allows faster tension and release than manual tensioners. Excellent in applications where conveyor belts are frequently replaced or removed, such as food processing.

Tensioner Retracted Length	Maximum Adjustment Stroke	Bearing Mount Slot Height	Bearing Mount Slot Width	Maximum Tension Force	Item No.
Carbon Steel Manual Screw Adjustment					
6 7/8"	3"	11/16"	7/16"	700 lb.	33UK86
10 3/8"	6"	11/16"	7/16"	700 lb.	33UK87
14 3/8"	9"	11/16"	7/16"	700 lb.	33UK88
11 1/2"	6"	15/16"	9/16"	1500 lb.	33UK90
14 1/2"	9"	15/16"	9/16"	1500 lb.	33UK91
11 1/8"	6"	1 9/16"	1 1/16"	3000 lb.	33UK93
19 1/8"	12"	1 9/16"	1 1/16"	3000 lb.	33UK95
Stainless Steel Manual Screw Adjustment					
6 7/8"	3"	11/16"	7/16"	700 lb.	33UL05
10 3/8"	6"	11/16"	7/16"	700 lb.	33UL06
Stainless Steel Quick Release Screw Adjustment					
10 3/8"	6"	11/16"	7/16"	700 lb.	33UL08



No. 33UK86

H-Stands sold separately on page 1113.



Roller Conveyor

ASHLAND CONVEYOR PRODUCTS

Heavy-Duty Chain-Drive Powered Roller Conveyors

For moving heavy items such as pallets, drums, and bulk containers in manufacturing, distribution, and other dirty or oily applications. Each section has a bed of sprocketed rollers that engage with the drive chain to help prevent slipping. Steel frames.

Note: Roller spacing affects the size of the items that can be conveyed on it. The smallest item on the conveyor should be supported by at least three rollers at all times.

Unpowered Extensions—Connect with powered drive sections to create a complete conveyor system.

Overall Width	Between Frame Width	Overall Length	Roller Spacing	Maximum Load Capacity	Roller Dia.	DRIVE SECTION Item No.	UNPOWERED EXTENSION Item No.
34"	27"	5 ft.	5"	800 lb./ft.	2½"	**45VY55**	**45VY56**
	27"	10 ft.	5"	800 lb./ft.	2½"	**45VY53**	**45VY54**
58"	51"	5 ft.	5"	800 lb./ft.	2½"	**45VY51**	**45VY52**
	51"	10 ft.	5"	800 lb./ft.	2½"	**45VY49**	**45VY50**



No. 5VEJ4

BESTFLEX

Light-Duty Extendable Flexible-Frame Belt-Drive Powered Roller Conveyors

Conveyors help minimize the effort required to move loads with rimmed or uneven bottoms. Excellent for loading and unloading trailers, creating temporary assembly lines, and adding length to an existing conveyor. The accordion-style aluminum frames can stretch, curve, and contract to change length and shape, or collapse for compact storage. Rollers are self-tracking to ensure that items follow conveyor curves. Locking swivel casters allow units to be rolled into position.

Note: Roller spacing affects the size of the items that can be conveyed on it. The smallest item on the conveyor should be supported by at least 3 rollers at all times.

Overall Length	Roller Spacing	Maximum Load Capacity	Roller Dia.	Overall Width 24" Item No.	Overall Width 30" Item No.
12 ft.	Up to 5"	100 lb./ft.	1½"	**5YDF3**	**5VEJ1**
24 ft.	Up to 5"	100 lb./ft.	1½"	**5YDF4**	**5VEJ2**
36 ft.	Up to 5"	100 lb./ft.	1½"	**5YDF5**	**5VEJ3**
48 ft.	Up to 5"	100 lb./ft.	1½"	**5YDF6**	**5VEJ4**



Rectangular Grate No. 34TA01



Round Grate No. 34TA09



Tube Magnet No. 34TA17

GA GRAINGER APPROVED

Magnetic Separators

High-strength magnets remove metal shavings and contamination from conveyors. They help prevent ferrous particles and parts from contaminating the product, causing damage in machinery downstream, and potentially creating a spark that could ignite explosive materials.

Ceramic magnets capture large ferrous contaminants such as nuts, bolts, or staples.

Rare earth magnets capture fine or weakly magnetic material such as rust or scale.

Grate Magnets—Made up of magnetic tubes arranged in a grid and welded into a frame. They drop into openings on steep-sloped hoppers, odd and irregularly shaped hoppers, floor openings, vertical closed chutes, and ducts. As bulk material falls through the grate during conveying, any ferrous particles and parts stick to the face of the magnetic tubes, removing them from the conveyed material.

Tube Magnets—Can be passed over bulk materials to attract and remove ferrous particles. Multiple tubes can be screwed onto stainless steel tie bars to create custom-configured grates. 1"-dia.

Overall Length	Overall Width	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Rectangular Grate Magnets					
6"	6"	**34TA01**	20 oz.	**34TA28**	80 oz.
	10"	**34TA03**	20 oz.	**34TA30**	80 oz.
8"	8"	**34TA02**	20 oz.	**34TA29**	80 oz.
	12"	**34TA05**	20 oz.	—	—
10"	10"	**34TA04**	20 oz.	—	—
12"	12"	**34TA06**	20 oz.	**34TA33**	80 oz.
	16"	**34TA07**	20 oz.	**34TA34**	80 oz.
14"	14"	**34TA08**	20 oz.	—	—

Dia. (in.)	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Round Grate Magnets				
6	**34TA09**	20 oz.	**34TA36**	80 oz.
8	**34TA10**	20 oz.	**34TA37**	80 oz.
10	**34TA11**	20 oz.	**34TA38**	80 oz.
16	**34TA14**	20 oz.	**34TA41**	80 oz.
20	**34TA16**	20 oz.	**34TA43**	80 oz.
14	—	—	**34TA40**	80 oz.
18	—	—	**34TA42**	80 oz.

Overall Length	Tube Magnet Diameter	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Tube Magnets					
4"	1"	**34TA17**	20 oz.	**34TA44**	80 oz.
6"	1"	**34TA18**	20 oz.	**34TA45**	80 oz.
12"	1"	**34TA21**	20 oz.	**34TA48**	80 oz.
14"	1"	**34TA22**	20 oz.	—	—
20"	1"	**34TA25**	20 oz.	—	—
24"	1"	**34TA27**	20 oz.	—	—

TANIS INCORPORATED

Conveyor Cylinder Brushes

These long, tubular brushes each consist of a strip brush wrapped around a cylindrical metal core. Light-duty brushes have open-wound nylon bristles for lightly cleaning and positioning conveyed items. They are effective in wet or intermittently hot environments. Medium-duty brushes have closely wound polypropylene bristles and are typically mounted under conveyors to clean belts, chains, and other components. They can also clean, debur, sort, or position items. They resist water, chemicals, and oil, and maintain their stiffness when wet.

Brush Face Length	Overall Length	Bristle Diameter	Bristle Material	Bristle Color	Item No.
Light-Duty					
3½"-dia. Brush for ½" Shaft					
30"	30"	0.012"	Nylon	Natural	**1VKF1**
30"	30"	0.018"	Nylon	Natural	**1VKF3**
30"	30"	0.030"	Nylon	Black	**1VKF5**
4"-dia. Brush for ½" Shaft					
30"	30"	0.012"	Nylon	Natural	**1VKF7**
30"	30"	0.018"	Nylon	Natural	**1VKF9**
30"	30"	0.030"	Nylon	Natural	**1VKG2**
Medium-Duty					
4"-dia. Brush for 1" Shaft					
12"	14"	0.006"	Polypropylene	Black	**18A162**
18"	20"	0.006"	Polypropylene	Black	**1VKH7**
20"	22"	0.006"	Polypropylene	Black	**1VKH9**
24"	26"	0.006"	Polypropylene	Black	**1VKJ2**
32"	34"	0.006"	Polypropylene	Black	**1VKJ4**
36"	38"	0.006"	Polypropylene	Black	**1VKJ6**



Brush Face Length	Overall Length	Bristle Diameter	Bristle Material	Bristle Color	Item No.
6"-dia. Brush for 1" Shaft					
18"	20"	0.020"	Polypropylene	Black	**1VKK1**
20"	22"	0.020"	Polypropylene	Black	**1VKK3**
24"	26"	0.020"	Polypropylene	Black	**1VKK5**
36"	38"	0.020"	Polypropylene	Black	**1VKK9**
48"	50"	0.020"	Polypropylene	Black	**1VKL2**
10"-dia. Brush for 1" Shaft					
22"	24"	0.035"	Polypropylene	Black	**1TCV9**
20"	22"	0.035"	Polypropylene	Black	**1VKN9**
36"	38"	0.035"	Polypropylene	Black	**1VKP9**

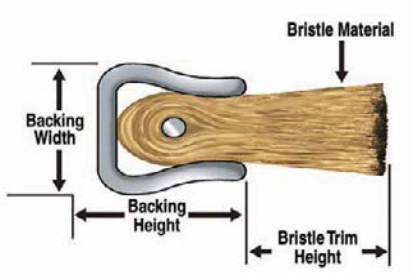
Conveyor Strip Brushes

TANIS INCORPORATED

These conveyor strip brushes are typically mounted along conveyors to direct and separate items on the conveyor and clean debris from conveyed items and conveyor belts and parts. Also known as metal-backed strip brushes, they have a rigid metal backing with densely compressed bristles that are securely held in a U-shaped metal channel with a retaining wire. Models with stainless steel backing offer additional corrosion resistance. All brushes are installed into a compatible Strip Brush Holder (sold separately on this page) to help maximize contact between the brush and conveyor when the brush is mounted. Strip brushes are typically mounted along conveyors in material handling, packaging, food processing, and can be used for nonconveyor applications such as a creating a barrier at the bottom of a door to keep out air, dust, debris, and other contaminants.

Nylon—Provide good resistance to wear and abrasion and are effective when used in wet or intermittently hot environments. Max. operating temperature: 250°F.

Horsehair—Durable, natural horsehair bristles will not abrade surfaces. Max. operating temperature: 400°F.



Bristle Trim Height	Bristle Diameter	Bristle Type	Bristle Material	Bristle Color	36" Length Item No.	72" Length Item No.
Stainless Steel Backing						
Backing Size: ⅛"H x ⅛"W (#2-1/2)						
⅝"	0.006"	Crimped Wire	Nylon	Black	**1TCN8**	**1TCN9**
Backing Size: 3⁄16"H x 3⁄16"W (#4)						
¾"	0.010"	Crimped Wire	Nylon	Black	**1VKF6**	**1VKF8**
Backing Size: 5⁄16"H x 5⁄16"W (#7)						
1 1⁄16"	0.014"	Crimped Wire	Nylon	Black	**1VKW2**	**1VKW4**
2 1⁄16"	0.030"	Crimped Wire	Nylon	Black	**1TCK8**	**1TCK9**
Steel Backing						
Backing Size: ⅛"H x ⅛"W (#2-1/2)						
¾"	0.006"	Crimped Wire	Nylon	Black	**1TCL9**	**1TCN1**
1"	0.008"	Crimped Wire	Nylon	Black	**1TCN2**	**1TCN3**
3"	0.012"	Crimped Wire	Nylon	Black	**1TCN6**	**1TCN7**
Backing Size: 3⁄16"H x 3⁄16"W (#4)						
¾"	—	Straight Wire	Horsehair	Brown	**1VKN8**	**1VKP1**
	0.010"	Crimped Wire	Nylon	Black	**1VKD9**	**1VKE1**
1¾"	—	Straight Wire	Horsehair	Brown	**1VKP4**	**1VKP7**
	0.010"	Crimped Wire	Nylon	Black	**1VKE2**	**1VKE3**
	0.014"	Crimped Wire	Nylon	Black	**1VKE4**	**1VKE5**
2¾"	—	Straight Wire	Horsehair	Brown	**1VKR1**	**1VKR4**
	0.014"	Crimped Wire	Nylon	Black	**1VKE6**	**1VKE7**
3¾"	0.014"	Crimped Wire	Nylon	Black	**1VKE8**	**1VKE9**
5¾"	0.014"	Crimped Wire	Nylon	Black	**1VKF2**	**1VKF4**

Bristle Trim Height	Bristle Diameter	Bristle Type	Bristle Material	Bristle Color	36" Length Item No.	72" Length Item No.
Backing Size: 5⁄16"H x 3⁄16"W (#7)						
9 1⁄16"	0.045"	Crimped Wire	Nylon	Black	—	**1TCK1**
Backing Size: 5⁄16"H x 5⁄16"W (#7)						
1 1⁄16"	0.010"	Crimped Wire	Nylon	Black	**1VKR6**	**1VKR8**
1 1⁄16"	0.014"	Crimped Wire	Nylon	Black	**1VKT1**	**1VKT3**
	0.020"	Crimped Wire	Nylon	Black	—	**1VKT7**
2 1⁄16"	0.014"	Crimped Wire	Nylon	Black	**1VKT9**	**1VKU2**
	0.020"	Crimped Wire	Nylon	Black	**1VKU4**	**1VKU6**
	0.030"	Crimped Wire	Nylon	Black	**1TCJ1**	**1TCJ2**
3 1⁄16"	0.020"	Crimped Wire	Nylon	Black	**1VKU8**	**1VKV1**
	0.030"	Crimped Wire	Nylon	Black	**1TCJ3**	**1TCJ4**
5 1⁄16"	0.020"	Crimped Wire	Nylon	Black	**1VKV3**	**1VKV5**
	0.045"	Crimped Wire	Nylon	Black	**1TCJ5**	**1TCJ6**
7 1⁄16"	0.045"	Crimped Wire	Nylon	Black	**1TCJ7**	**1TCJ8**
9 1⁄16"	0.045"	Crimped Wire	Nylon	Black	**1TCJ9**	—
Backing Size: 7⁄16"H x 7⁄16"W (#10)						
2"	0.014"	Crimped Wire	Nylon	Black	**1TCP7**	**1TCP8**
3"	0.020"	Crimped Wire	Nylon	Black	**1TCP9**	**1TCR1**
4"	0.020"	Crimped Wire	Nylon	Black	**1TCR2**	**1TCR3**
6"	0.045"	Crimped Wire	Nylon	Black	**1TCR4**	**1TCR5**
8"	0.045"	Crimped Wire	Nylon	Black	**1TCR6**	—
10"	0.045"	Crimped Wire	Nylon	Black	**1TCR8**	**1TCR9**

Strip Brush Holders

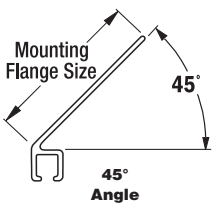
TANIS INCORPORATED

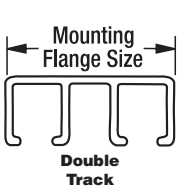
These holders allow compatible strip brushes to be mounted in a variety of orientations in a conveying system. They help maximize contact between the brushes and conveyor as the brushes direct and separate items on the conveyor, support delicate items, and clean debris from conveyed items and conveyor belts and parts. All holders can accept one brush strip, while double track models can accept two. The holder should be compatible with the backing height and width of the strip brush.

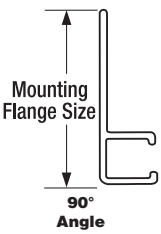
Aluminum—The brush's rigid backing slides into the channel in the holder, and the holder is then surface mounted using drilling or welding. Holder is corrosion-resistant anodized aluminum with a clear finish.

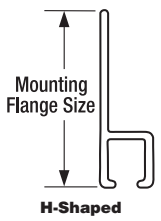
Stainless Steel—The brush's rigid backing slides into the channel in the holder, and the holder is then surface mounted using drilling or welding. Holder is suitable for use in high temperatures and corrosive environments.

For Backing Height	For Backing Width	Mounting Flange Size	Backing Material - Brush	36" LENGTH Item No.	72" LENGTH Item No.
45° Angle Mounting Profile					
5⁄16"	5⁄16"	1⅛"	Aluminum	**1VKV2**	**1VKV4**
90° Angle Mounting Profile					
⅛"	⅛"	¾"	Aluminum	**1TCU3**	**1TCU4**
3⁄16"	3⁄16"	1"	Aluminum	**1VKR5**	**1VKR7**
5⁄16"	5⁄16"	1½"	Aluminum	**1VKW1**	**1VKW3**
7⁄16"	7⁄16"	1½"	Aluminum	**1TCV2**	**1TCV3**
Double Track Mounting Profile					
5⁄16"	5⁄16"	1 3⁄16"	Aluminum	**1VKW9**	**1VKX2**
H-Shaped Mounting Profile					
⅛"	⅛"	⅞"	Aluminum	**1TCU5**	**1TCU6**
3⁄16"	3⁄16"	1¼"	Aluminum	**1VKT8**	**1VKU1**
	3⁄16"	1"	Stainless Steel	**1VKX8**	**1VKY1**
5⁄16"	5⁄16"	1¼"	Aluminum	**1VKX4**	**1VKX6**
	5⁄16"	1"	Stainless Steel	**1VKY3**	**1VKY5**
7⁄16"	7⁄16"	2"	Aluminum	**1TCV4**	**1TCV5**



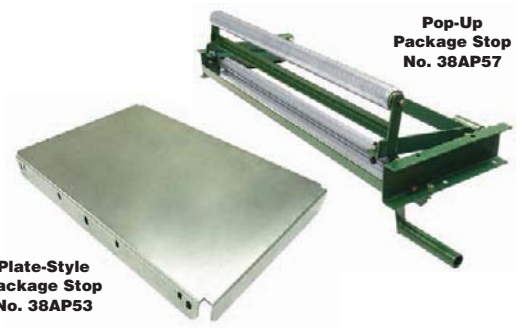








Bolt-On Angle Package Stop No. 6GKJ1



Pop-Up Package Stop No. 38AP57

Plate-Style Package Stop No. 38AP53

For Between Frame Width	Item No.
Axle-Mount L Package Stop	
For Light-Duty Skate Wheel Flow Rails	
—	42X932
Bolt-On Angle Package Stops	
For Heavy-Duty Rigid-Frame Skate Wheel & Roller Conveyors	
13"	6GKJ8
21"	6GKJ9
27"	6GKK0
39"	6GKK1
51"	6GKK2
For Light- to Medium-Duty Rigid-Frame Skate Wheel & Roller Conveyors	
10"	6GKJ1
13"	6GKJ2
16"	6GKJ3
22"	6GKJ4
27"	6GKJ5
31"	6GKJ6
36"	4GY62

For Between Frame Width	Item No.
Bolt-On Package Stops	
For Heavy-Duty Rigid-Frame Skate Wheel & Roller Conveyors	
13"	38AP70
21"	38AP71
27"	38AP72
39"	38AP73
51"	38AP74
For Medium-Duty Rigid-Frame Skate Wheel & Roller Conveyors	
10"	38AP63
13"	38AP64
16"	38AP65
22"	38AP66
27"	38AP67
31"	38AP68
36"	38AP69

For Between Frame Width	Item No.
Plate-Style Package Stops	
For Light- to Medium-Duty Roller Conveyors	
10"	38AP53
16"	38AP54
22"	38AP55
36"	38AP56
Pop-Up Roller Package Stops	
For Light-Duty Rigid-Frame Roller Conveyors	
10"	38AP57
16"	38AP58
22"	38AP59
For Medium-Duty Rigid-Frame Roller Conveyors	
10"	38AP60
16"	38AP61
22"	38AP62

ASHLAND CONVEYOR PRODUCTS

Package Stops

These install onto unpowered (gravity-flow) conveyors to help control the movement of items on the conveyor.

Axle-Mount—These L-shaped stops install onto the axles of skate wheel flow rails. The stop is mounted on the end of the rail so that the L projects above the surface to prevent conveyed material from moving past the end of the rail.

Bolt-On—Angle end stops attach to the top flange of the conveyor frame. Flat stops mount to the existing butt plate on the conveyor frame.

Plate-Style—Also known as dead plates, they create a flat surface for stopping conveyed items and also provide work space for tasks such as packaging, assembling, or inspecting conveyed items. These plates replace the rollers in the conveyor and bolt into place using the existing mounting holes on the frame of the conveyor.

Pop-Up Roller—Package stop replaces a standard roller in the frame, and has a handle to manually raise or lower the roller to temporarily stop or restart the flow of materials on the conveyor.



No. 2RCP8



No. 2RCR1



No. 5JTC1



No. 5JTA9



No. 5JRY3



No. 5JRZ2

80/20® Inc.
The Industrial Erector Set®

T-Slotted Framing Extrusion

These strong, straight sections of extruded aluminum can be machined to size using common shop tools and easily assembled without welding. The T-slot design allows strong connections anywhere along the axis of the framing for an infinite number of mounting points, and it can be disassembled and reassembled as needed. The 6101-T5 aluminum extrusion alloy is strong, lightweight, has a high strength-to-weight-ratio, and has a clear anodize which helps prevent oxidation and corrosion while providing a matte finish. Framing is suitable for use in factory automation, machine guarding and enclosures, workstations, tooling specialties, machine frames, carts, shelving, and displays.

Series	No. of Open Slots	W (in.)	H (in.)	Slot Width (in.)	Bore Dia. (in.)	Weight/ ft. (lb.)	72" LENGTH Mfr. Model	72" LENGTH Item No.	97" LENGTH Mfr. Model	97" LENGTH Item No.	145" LENGTH Mfr. Model	145" LENGTH Item No.
10 Series	4	1.00	1.00	0.26	0.21	0.51	1010-72	2RCP8	1010-97	2RCP9	—	—
	6	1.00	2.00	0.26	0.21	0.92	1020-72	2RCR1	1020-97	2RCR2	—	—
	8	1.00	3.00	0.26	0.21	1.33	1030-72	5JTA6	—	—	1030-145	5JTC6
	8	2.00	2.00	0.26	0.21	1.44	2020-72	5JTA7	—	—	2020-145	5JTC7
15 Series	4	1.50	1.50	0.32	0.26	1.35	1515-72	5JTA8	1515-97	5JTC8	—	—
	6	1.50	3.00	0.32	0.26	2.43	1530-72	5JTC1	1530-97	5JTD1	—	—
	8	1.50	4.50	0.32	0.26	3.51	1545-72	5JTC3	—	—	1545-145	5JTD3
	8	3.00	3.00	0.32	0.26	3.76	3030-72	5JTC4	—	—	3030-145	5JTD4
15 Series Lite	4	1.50	1.50	0.32	0.26	1.05	1515-LITE-72	2RCR3	1515-LITE-97	2RCR4	—	—
	6	1.50	3.00	0.32	0.26	2.02	1530-LITE-72	2RCR5	1530-LITE-97	2RCR6	—	—
15 Series Lite Smooth	4	1.50	1.50	0.32	0.26	0.86	1515-LS-72	5JTC0	—	—	1515-LS-145	5JTD0
	6	1.50	3.00	0.32	0.26	1.97	1530-LS-72	5JTC2	—	—	1530-LS-145	5JTD2
	8	3.00	3.00	0.32	0.26	3.11	3030-LS-72	5JTC5	—	—	3030-LS-145	5JTD5
15 Series Ultra Lite Smooth	4	1.50	1.50	0.32	0.26	0.95	1515-ULS-72	5JTA9	—	—	1515-ULS-145	5JTC9

Series	No. of Open Slots	Width (mm)	Height (mm)	Slot Width (mm)	Bore Dia. (mm)	Weight/ft. (lb.)	4m LENGTH Mfr. Model	4m LENGTH Item No.	6m LENGTH Mfr. Model	6m LENGTH Item No.
25 Series	4	25.00	25.00	6.50	5.00	0.50	25-2525-4M	5JRY3	25-2525-6M	5JRZ3
	6	25.00	50.00	6.50	5.00	0.88	25-2550-4M	5JRY4	25-2550-6M	5JRZ4
	8	50.00	50.00	6.50	5.00	1.36	25-5050-4M	5JRY7	25-5050-6M	5JRZ5
30 Series	4	30.00	30.00	8.13	6.65	0.59	30-3030-4M	5JRY8	30-3030-6M	5JRZ6
	6	30.00	60.00	8.13	6.65	1.10	30-3060-4M	5JRY9	30-3060-6M	5JRZ7
40 Series	4	40.00	40.00	8.13	6.81	1.59	40-4040-4M	5JRZ0	40-4040-6M	5JRZ8
	6	40.00	80.00	8.13	6.81	2.78	40-4080-4M	5JRZ1	40-4080-6M	5JTA0
	8	80.00	80.00	8.13	6.81	4.28	40-8080-4M	5JRZ2	40-8080-6M	5JTA2
40 Series Lite	4	40.00	40.00	8.13	6.81	1.20	40-4040-LITE-4M	5JRY5	40-4040-LITE-6M	5JRZ9
	6	40.00	80.00	8.13	6.81	2.78	40-4080-LITE-4M	5JRY6	40-4080-LITE-6M	5JTA1
45 Series	4	45.00	45.00	10.13	10.00	1.37	45-4545-4M	5JRY1	45-4545-6M	5JTA3
	6	45.00	90.00	10.13	10.00	2.29	45-4590-4M	5JRY2	45-4590-6M	5JTA5
45 Series Lite	4	45.00	45.00	10.13	10.00	0.94	45-4545-LITE-4M	5JRE5	45-4545-LITE-6M	5JTA4

Description	10 SERIES Item No.	10 SERIES Pkg. Qty.	15 SERIES Item No.	15 SERIES Pkg. Qty.	25 SERIES Item No.	25 SERIES Pkg. Qty.	30 SERIES Item No.	30 SERIES Pkg. Qty.	40 SERIES Item No.	40 SERIES Pkg. Qty.	45 SERIES Item No.	45 SERIES Pkg. Qty.
Anchor Fasteners												
Zinc Casting	2RCU3	1	2RCU4	1	5JRH1	1	5JRH8	1	5JRH3	1	—	
Base Plates												
1" x 2", ¼-20 Center Tap	2RCV1	1	—		—		—		—		—	
1" x 2", ⅜-16 Center Tap	2RCV2	1	—		—		—		—		—	
1.5" x 3", ⅜-16 Center Tap	—		2RCV3	1	—		—		—		—	
2" x 2", ⅜-16 Center TapCenter	5JRN3	1	—		—		—		—		—	
3" x 3", ½-13 Center Tap	—		5JRN5	1	—		—		—		—	
Flange Mount	5JRN1	1	5JRN2	1	5JRL3	1	—		5JRL4	1	—	
Butt Hinges												
Aluminum, 4 Hole	5JRL8	1	5JRL9	1	5JRK6	1	—		5JRK7	1	—	
Plastic, 4 Hole	—		—		5JRK8	1	5JRK9	1	5JRL0	1	5JRL1	1
Deluxe Leveling Feet												
½-13, 5000-lb. Capacity per Foot	5JRN4	1	5JRN4	1	—		—		—		—	
¼-20, 1000-lb. Capacity per Foot	2RCV5	1	—		—		—		—		—	
⅜-16, 3750-lb. Capacity per Foot	2RCV4	1	2RCV4	1	—		—		—		—	
M6, 317kg Capacity per Foot	—		—		5JRK3	1	—		—		—	
End Caps												
Rectangle, Single Width	—		2RCT1	2	—		—		—		—	
Rectangle, Single Width, Double Length	2RCR8	2	2RCR9	2	—		—		—		—	
Rectangle, Single Width, Triple Length	5JRG2	2	5JRG3	2	—		—		—		—	
Square, Double Width	5JRG0	2	5JRG1	2	5JRF4	2	—		5JRF5	2	—	
Square, Single Width	2RCR7	2	—		5JRE6	2	5JRF6	2	5JRE8	2	5JRF2	2
End Fasteners												
Carbon Steel	2RCU1	1	2RCU2	1	5JRH0	1	—		5JRH2	1	—	
Flat Joining Plates												
90° Angled, 5 Hole	—		—		5JRP2	1	5JRT6	1	5JRR2	1	5JRR8	1
Rectangular, 8 Hole	—		—		5JRP3	1	—		5JRR3	1	—	
Straight, 3 Hole	—		—		—		5JRT5	1	—		5JRR7	1
Straight, 4 Hole	—		—		5JRN8	1	—		5JRP9	1	—	
Tee, 12 Hole	—		—		5JRU4	1	—		5JRU5	1	—	
Tee, 5 Hole	—		—		5JRP1	1	5JRT7	1	5JRR1	1	5JRR6	1
Framing Extrusions												
45° Support, Square Profile	2RCV7	1	2RCV9	1	—		—		—		—	
45° Support, Rectangle Profile	2RCV8	1	2RCW1	1	—		—		—		—	
Inside Corner Brackets												
2 Hole	2RCW6	1	2RCW7	1	5JRN9	1	5JRT2	1	5JRP7	1	5JRR9	1
4 Hole, Tall	2RCW4	1	2RCW5	1	5JRN7	1	5JRT3	1	5JRP6	1	5JRT1	1
4 Hole, Wide	5JRU8	1	5JRU9	1	5JRU6	1	—		5JRU7	1	—	
6 Hole, Wide, 3 x 3	5JRV0	1	5JRV1	1	—		—		—		—	
8 Hole	2RCW2	1	2RCW3	1	5JRN6	1	5JRT4	1	5JRP8	1	5JRT0	1
Inside Gusset Corner Brackets												
2 Hole	5JRV4	1	5JRV5	1	5JRT8	1	—		5JRT9	1	—	
4 Hole, Tall	5JRV6	1	5JRV7	1	5JRU0	1	—		5JRU1	1	—	
8 Hole	5JRV8	1	5JRV9	1	5JRU2	1	—		5JRU3	1	—	
Joining Plates												
Flat Angle Plate, 12 Hole, 90°	2RCX5	1	2RCX6	1	—		—		—		—	
Flat Angle Plate, 5 Hole, 90°	2RCX3	1	2RCX4	1	—		—		—		—	
Flat Rectangular Plate, 8 Hole	2RCX1	1	2RCX2	1	—		—		—		—	
Flat Straight Plate, 4 Hole	2RCW8	1	2RCW9	1	—		—		—		—	
Tee Flat Plate, 12 Hole	5JRV2	1	5JRV3	1	—		—		—		—	
Tee Flat Plate, 5 Hole	2RCX7	1	2RCX8	1	—		—		—		—	
L-Brake Handles												
Nylon Plastic	2RCP2	1	—		5JRX2	1	—		—		—	
Zinc	—		2RCP3	1	—		—		5JRX3	1	—	
Pivot Nub Assemblies												
0°, Dual Straight Arms	2RCY2	1	2RCY3	1	—		—		—		—	
Universal, Dual Straight Arms	2RCX9	1	2RCY1	1	—		—		—		—	
Supports												
45° Support, Square Profile	—		—		5JRG4	1	—		5JRG6	1	—	
45° Support, Rectangle Profile	—		—		5JRG5	1	—		5JRG7	1	—	
Swivel Casters w/Brake												
Bolt Kit, Socket Head Cap Screw	5JRK1	25	5JRK1	25	—		—		—		—	
Plate Caster, 300-lb. Capacity, Flange Mount	5JRN0	1	5JRN0	1	—		—		—		—	
Stem Caster, 70-lb. Capacity	2RCV6	1	2RCV6	1	—		—		—		—	
T-Nut and Screw Kits												
Base Plate Bolt Kit, Socket Head Cap Screw and T-Nut	2RCU7	15	2RCU8	15	—		—		—		—	
Double T-Nut & (2) Flanged Button Head Socket Cap Screws	2RCT8	6	2RCT9	6	—		—		—		—	
Drop-In T-Nut & Button Head Socket Cap Screw	—		—		—		5JRJ0	6	—		5JRH7	6
Drop-In T-Nut & Flanged Button Head Socket Cap Screw	2RCU5	1	2RCU6	1	—		—		—		—	
Drop-In T-Nut & Socket Head Cap Screw	—		—		—		5JRH9	6	—		5AEZ4	15
Hinge Bolt Kit, T-Nut & Button Head Socket Cap Screw	—		—		5JRJ1	15	—		5JRJ2	15	—	
Hinge Bolt Kit, T-Nut & Flanged Button Head Socket Cap Screw	5JRJ9	15	5JRK0	15	—		—		—		—	
Hinge Bolt Kit, T-Nut & Flat Head Socket Cap Screw	—		—		5JRJ3	6	5JRJ4	6	5JRJ5	6	5JRJ6	6
T-Nut & Button Head Socket Cap Screw	2UWP8	15	2RCU9	6	—		—		—		—	
T-Nut & Button Head Socket Screw, Blue	—		—		5JRH4	15	—		5JRH6	15	—	
T-Nut & Flanged Button Head Socket Cap Screw	2RCT6	15	2RCT7	15	—		—		—		—	
T-Nut & Socket Head Cap Screw	—		—		5JRH5	15	—		5JRJ8	15	—	
T-Slot Covers												
Black	2RCT2	1	2RCT3	1	5JRF0	1	5JRF9	1	5JRF1	1	5JRF8	1


Base Plate


Deluxe Leveling Foot


12-Hole 90° Angled Flat Joining Plate


Inside Corner Bracket


L-Handle Linear Bearing Brake Kit


Universal Pivot Nub Assembly

80/20® Inc.
The Industrial Erector Set®

T-Slotted Extruded Aluminum Profile Accessories

For use in machine guards and enclosures, workstations, displays, carts, shelving, and more.

Anchor Fasteners—Create strong, adjustable 90° connections.

Base Plates—Threaded center hole in aluminum plate is used to mount leveling feet or casters. Bolt kits sold separately.

Butt Hinges—Aluminum hinges have a clear iridite finish to match color of profiles. Use to mount lighter weight doors or two profiles side by side. Plastic hinges are black, fiberglass-reinforced nylon with stainless steel pin.

Deluxe Leveling Feet—Install in base plate or directly in the end of a tapped profile. Swivel up to 20° on uneven floors.

End Caps—Black plastic caps for T-slot profile ends. Fasteners included.

End Fasteners—Create concealed 90° connections between profiles.

Flat Joining Plates and Joining Plates—External fasteners ease connecting of profiles with no machining required.

Framing Extrusions—Provide a clean, flush connection and are typically used to reinforce a 90° connection.

Inside Corner Brackets —6105-T5 aluminum alloy with a clear anodized finish except for 30 Series Nos. 5JRT2, 5JRT3, and 5JRT4, which are die-cast aluminum with natural finish.

L-Brake Handles—Ratcheting matte handle secures brake-ready linear slide bearing in a semipermanent position.

Pivot Nub Assemblies—Add axial motion to T-slot profiles: connect two same-series profiles in parallel configuration, allowing one profile 180° axial motion. 6105-T5 aluminum alloy.

Supports—6" supports made from T-slot profile add strength to 90° corners. Fasteners included.

Swivel Casters with Brake—No. 2RCV6 has ⅜-16 x 1.5" zinc-plated steel threaded stem with 2"-dia. rubber wheel. No. 5JRN0 has 4"-dia. polyurethane wheel.

T-Nut and Screw Kits—Fasteners to attach joining plates and brackets. Zinc-plated steel, except No. 2RCU9 is stainless steel.

T-Slot Covers—Black cover snaps into profile slots to conceal wire and keep out dirt. Cut to size with scissors. 10 and 25 Series are PVC, the rest are polypropylene. 25 and 40 Series are 72½" long, and 30 and 45 Series are 78¾" long.







TMI LLC

Industrial PVC Strip Doors

Strip doors reduce air loss at doorways, creating a more comfortable work environment while saving energy costs. Standard smooth strips are the most economical while Ribbed PVC materials will reduce scratches and last longer. Cooler/Freezer strips will resist cracking in subfreezing temperatures. These kits include Save-T-Loc® universal mounting hardware and safety orange end strips.

Strip Width	Opening Width	Opening Height	No. of Strips	% Overlap	STANDARD Smooth Item No.	STANDARD Ribbed Item No.	COOLER/FREEZER Smooth Item No.	COOLER/FREEZER Ribbed Item No.
6"	3 ft.	7 ft.	9	67	39J443	52NL65	39J455	52NL85
	4 ft.	7 ft.	12	67	39J444	52NL66	39J456	52NL86
	5 ft.	7 ft.	15	67	39J445	52NL67	39J457	52NL87
	6 ft.	7 ft.	18	67	39J446	52NL68	39J458	52NL88
8"	3 ft.	7 ft.	6	50	36LT05	36LT21	52NL73	52NL89
	3 ft.	8 ft.	6	50	36LT08	36LT25	52NL76	52NL93
	4 ft.	7 ft.	8	50	3TB17	36LT22	39J459	52NL90
	4 ft.	8 ft.	8	50	3TA91	3TB27	39J460	39J463
	5 ft.	7 ft.	10	50	36LT06	36LT23	52NL74	52NL91
	5 ft.	8 ft.	10	50	3TB20	3TB28	39J461	39J464
	6 ft.	7 ft.	12	50	36LT07	36LT24	52NL75	52NL92
	6 ft.	8 ft.	12	50	3TB21	3TB29	39J462	39J465
	7 ft.	8 ft.	14	50	36LT09	52NL69	52NL77	52NL94
	8 ft.	8 ft.	16	50	36LT10	36LT26	52NL78	52NL95
12"	7 ft.	10 ft.	10	67	3TB37	3TB30	39J466	39J472
	8 ft.	8 ft.	12	67	3TB18	3TB31	39J467	39J473
	8 ft.	10 ft.	12	67	3TB19	3TB32	39J468	39J474
	8 ft.	12 ft.	12	67	36LT19	52NL72	52NL84	52NM02
	9 ft.	10 ft.	13	67	36LT18	52NL70	52NL81	52NL98
	10 ft.	8 ft.	15	67	52NL61	36LT34	52NL79	52NL96
	10 ft.	10 ft.	15	67	3TB22	3TB24	39J469	39J475
	10 ft.	12 ft.	15	67	3TB23	3TB25	39J470	39J476
	11 ft.	10 ft.	16	67	52NL63	52NL71	52NL82	52NL99
	12 ft.	8 ft.	18	67	52NL62	36LT35	52NL80	52NL97
	12 ft.	10 ft.	18	67	52NL64	36LT38	52NL83	52NM01
	12 ft.	12 ft.	18	67	3TA90	3TB26	39J471	39J477
16"	12 ft.	14 ft.	12	50	39J447	39J451	39J478	39J482
	14 ft.	14 ft.	14	50	39J448	39J452	39J479	39J483
	14 ft.	16 ft.	14	50	39J449	39J453	39J480	39J484
	16 ft.	16 ft.	16	50	39J450	39J454	39J481	39J485



TMI LLC

Industrial PVC Replacement Strips

These replacement PVC strips for strip doors are precut to length and prepunched with holes on 2" centers. They fit all TMI strip door hardware types.

Strip Width	Strip Length	Strip Thickness	No. of Strips	STANDARD Smooth Item No.	STANDARD Ribbed Item No.	COOLER/FREEZER Smooth Item No.	COOLER/FREEZER Ribbed Item No.
6"	7 ft. 3"	0.060"	5	52NM03	52NM06	52NM09	52NM17
8"	7 ft. 3"	0.080"	5	3TA96	3TB11	52NM10	52NM18
	8 ft. 3"	0.080"	5	3TA99	3TB12	52NM11	52NM19
12"	8 ft. 3"	0.120"	5	3TA97	3TB13	52NM12	52NM20
	10 ft. 3"	0.120"	5	3TA98	3TB14	52NM13	52NM21
	12 ft. 3"	0.120"	5	3TB10	3TB15	52NM14	52NM22
16"	14 ft. 3"	0.160"	5	52NM04	52NM07	52NM15	52NM23
	16 ft. 3"	0.160"	5	52NM05	52NM08	52NM16	52NM24



TMI LLC

Flexible PVC Bulk Rolls

Material comes in several compounds to meet a wide variety of applications for doorways, curtains, and other partitioning requirements.

Strip Width	Strip Thickness	Roll Length	STANDARD Smooth Item No.	STANDARD Ribbed Item No.	COOLER/FREEZER Smooth Item No.	COOLER/FREEZER Ribbed Item No.
6"	0.060"	75 ft.	52NM81	52NM83	52NM86	52NM95
	0.060"	150 ft.	6GJH4	52NM84	52NM87	52NM96
	0.060"	300 ft.	6GJH5	—	52NM88	—
8"	0.080"	75 ft.	6GJH6	6GJJ6	6GJJ1	6GJJ8
	0.080"	150 ft.	36LT41	3TA95	52NM89	3TB40
	0.080"	300 ft.	3TA92	—	52NM90	—
12"	0.120"	75 ft.	6GJH7	6GJJ7	6GJJ2	6GJJ9
	0.120"	150 ft.	3TA93	3TA94	52NM91	3TB41
	0.120"	200 ft.	36LT42	—	52NM92	—
16"	0.160"	100 ft.	6GJH8	36LT43	52NM93	52NM97
	0.160"	150 ft.	52NM82	52NM85	52NM94	52NM98



TMI LLC

Rip-A-Strip® Rolls Replacement Strips

Prepunched PVC strips come on a continuous roll, scored at the length specified, allowing strips to be separated without tools.

Strip Width	Strip Length	Strip Thickness	No. of Strips	Roll Length	STANDARD Smooth Item No.	STANDARD Ribbed Item No.	COOLER/FREEZER Smooth Item No.	COOLER/FREEZER Ribbed Item No.
6"	7 ft. 3"	0.060"	10	75 ft.	52NM25	52NM37	52NM49	52NM65
	7 ft. 3"	0.060"	20	150 ft.	52NM26	52NM38	52NM50	52NM66
8"	7 ft. 3"	0.080"	10	75 ft.	5LY39	5LY40	52NM51	52NM67
	7 ft. 3"	0.080"	20	150 ft.	52NM27	52NM39	52NM52	52NM68
	8 ft. 3"	0.080"	9	75 ft.	5LY41	5LY42	52NM53	52NM69
	8 ft. 3"	0.080"	18	150 ft.	52NM28	52NM40	52NM54	52NM70
12"	8 ft. 3"	0.120"	9	75 ft.	52NM29	52NM41	52NM55	52NM71
	8 ft. 3"	0.120"	18	150 ft.	52NM30	52NM42	52NM56	52NM72
	10 ft. 3"	0.120"	7	75 ft.	5LY43	5LY45	52NM57	52NM73
	10 ft. 3"	0.120"	14	150 ft.	52NM31	52NM43	52NM58	52NM74
	12 ft. 3"	0.120"	6	75 ft.	5LY44	5LY46	52NM59	52NM75
	12 ft. 3"	0.120"	12	150 ft.	52NM32	52NM44	52NM60	52NM76
16"	14 ft. 3"	0.160"	7	100 ft.	52NM33	52NM45	52NM61	52NM77
	14 ft. 3"	0.160"	10	150 ft.	52NM34	52NM46	52NM62	52NM78
	16 ft. 3"	0.160"	6	100 ft.	52NM35	52NM47	52NM63	52NM79
	16 ft. 3"	0.160"	9	150 ft.	52NM36	52NM48	52NM64	52NM80





TMI LLC

Industrial Strip Door Hardware

- Compatible with TMI materials.

Save-T-Loc®—Save-T-Loc® studded pins on 2" centers secured with keyhole retainer bars and locking tabs.

Standard—Threaded studs on 2" centers, secured by retainer bars with locking nuts.

L	GALVANIZED STEEL Save-T-Loc® Item No.	GALVANIZED STEEL Standard Item No.	ALUMINUM Save-T-Loc® Item No.	ALUMINUM Standard Item No.
2 ft.	52NN99	52NN02	36LT72	52NN04
3 ft.	1VKC3	3TB42	1VKC6	3TB34
4 ft.	1VKC2	3TB43	1VKC5	3TB35
5 ft.	1VKC1	3TB44	1VKC4	3TB36
6 ft.	52NN01	52NN03	36LT73	52NN05
10 ft.	—	—	36LT76	—

Antistatic Industrial PVC Strip Doors

Designed to reduce the buildup of static electricity from contact with the material, dissipate static electric discharge, and prevent dust and airborne particles from adhering. Aluminum mounting hardware.

Strip Width	Opening Width	Opening Height	No. of Strips	% Overlap	Item No.
8"	3 ft.	7 ft.	6	50	36LT49
	4 ft.	7 ft.	8	50	36LT50
	5 ft.	7 ft.	10	50	36LT51
	6 ft.	7 ft.	12	50	36LT52
	3 ft.	8 ft.	6	50	36LT53
	4 ft.	8 ft.	8	50	36LT54
	5 ft.	8 ft.	10	50	36LT55
	6 ft.	8 ft.	12	50	36LT56
	8 ft.	8 ft.	16	50	36LT57
12"	8 ft.	8 ft.	12	67	36LT58
	8 ft.	10 ft.	12	67	36LT59
	10 ft.	10 ft.	15	67	36LT60
	10 ft.	12 ft.	15	67	36LT61
	12 ft.	12 ft.	18	67	36LT62



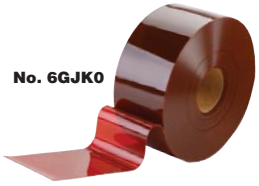
No. 36LT49

Strip Width	Strip Length	No. of Strips	Item No.
Replacement Strips			
8"	7 ft. 3"	5	36LT66
	8 ft. 3"	5	36LT67
12"	8 ft. 3"	5	36LT68
	10 ft. 3"	5	36LT69
	12 ft. 3"	5	36LT70

Specialty Flexible PVC Bulk Rolls

Specialty materials help reduce static discharge, block welding flash, or remain flexible at low temperatures.

Strip Width	Strip Thickness	Roll Length	Strip Color	Item No.
Antistatic				
8"	0.080"	150 ft.	Clear	36LT63
12"	0.120"	75 ft.	Clear	36LT64
	0.120"	150 ft.	Clear	36LT65
Cooler/Freezer				
6"	0.060"	300 ft.	Clear	6GJJ3
8"	0.080"	300 ft.	Clear	3TB38



No. 6GJK0

Strip Width	Strip Thickness	Roll Length	Strip Color	Item No.
12"	0.120"	200 ft.	Clear	3TB39
Welding				
8"	0.080"	300 ft.	Amber Weld Tint	6GJJ4
12"	0.120"	200 ft.	Amber Weld Tint	6GJJ5
8"	0.080"	300 ft.	Red Weld Tint	6GJK0
12"	0.120"	200 ft.	Red Weld Tint	6GJK1
Standard				
48"	0.080"	30 ft.	Clear	6GJH9
	0.080"	60 ft.	Clear	6GJJ0

Walk-In Cooler/ Freezer Doors

Designed to act as a secondary barrier for walk-in coolers and freezers, refrigeration doors are made from low-temperature PVC approved for incidental food contact.

Strip Width	Opening Width	Opening Height	Gauge	No. of Strips	Mounting Hardware Material	Item No.
Strip Doors						
6"	3 ft. 4"	7 ft.	0.06	10	Polypropylene	1VKB7
8"	3 ft. 4"	6 ft. 8"	0.08	7	Polypropylene	1VKB8
8"	3 ft. 4"	7 ft.	0.08	7	Polypropylene	1VKB9
8"	3 ft. 4"	7 ft.	0.08	7	Aluminum	3TB33
Replacement Strips						
8"	—	7 ft.	0.08	5	—	3TB16

Door Thickness	Opening Width	Opening Height	Mounting Hardware Material	Item No.
Flexible Swinging Doors				
5/64"	2 ft. 10"	6 ft. 8"	Stainless Steel	4EY32
5/64"	3 ft.	7 ft.	Stainless Steel	4EY33
5/64"	4 ft.	7 ft.	Stainless Steel	4EY34
5/64"	5 ft.	7 ft.	Stainless Steel	4EY35
5/64"	5 ft.	8 ft.	Stainless Steel	4EY36



Strip Door



Swinging Doors

Curtain Wall Partitions

Curtains are PVC-coated polyester with an optional clear vision panel. The kits include roller track hardware with universal track supports and hook/loop closures to link multiple curtains. NFPA-701 Compliant.

W	H	Item No.
Solid Blue with Clear Vision Panel		
6 ft.	8 ft.	4EE10
	10 ft.	4EE11
	12 ft.	4EE12
12 ft.	8 ft.	4EE13
	10 ft.	4EE14
	12 ft.	4EE15
24 ft.	8 ft.	4EE16
	10 ft.	4EE17
	12 ft.	4EE18
Solid Blue		
6 ft.	8 ft.	4EE19
	10 ft.	4EE20
	12 ft.	4EE21
12 ft.	8 ft.	4EE22
	10 ft.	4EE23
	12 ft.	4EE24
24 ft.	8 ft.	4EE25
	10 ft.	4EE26
	12 ft.	4EE27
90° Curved Track		
—	—	4EE28



No. 4EE10

Flexible PVC Swinging Doors

Opening Width	Opening Height	Item No.
Industrial Flexible PVC Swinging Door		
8 ft.	8 ft.	4EY37
	10 ft.	4EY38
9 ft.	9 ft.	4EY39
	10 ft.	4EY40
Industrial Swinging Door with Impact Panel		
8 ft.	8 ft.	4EY41
	10 ft.	4EY42
9 ft.	9 ft.	4EY43
	10 ft.	4EY44



No. 4EY41



Sliding Bug Screens

- Simple under-header installation

Flexible sliding barriers keep out insects, birds, and dust, while letting in sunlight and fresh air; help improve employee comfort and productivity, as well as facility sanitation. The roller-and-track mechanism can be easily slid open or closed by a single individual. Hook-and-loop fasteners and steel bar-reinforced side seams help seal the sides of the screen. All-weather vinyl-coated polyester construction is UV-resistant.

Opening Width	Opening Height	Item No.
8 ft.	8 ft.	483L35
	9 ft.	483L36
	10 ft.	483L37
9 ft.	10 ft.	483L38
10 ft.	8 ft.	483L39
	10 ft.	483L40
	12 ft.	483L41
12 ft.	10 ft.	483L42
	12 ft.	483L43
	14 ft.	483L44



No. 45AP93 (Plastic Sheeting Not Included)



No. 32V061

ZipWall® Dust Barrier Systems

Tapeless dust barrier systems are easy to set up, work with a variety of ceiling heights, and prevent damage to finished surfaces. Requires only one person for installation.

Description	Includes	Mfr. Model	Item No.
ZipWall® Dust Barrier System Kits (Plastic Sheeting Not Included)			
10 ft	(4) 10 ft Spring-Loaded Poles With Parts, (2) Standard Zippers and (1) Carry Bag	ZP4	**32V058**
12 ft	(4) Spring-Loaded Poles With Parts, (2) Standard Zippers and (1) Carry Bag	SLP4	**45AP93**
ZipWall® Dust Barrier Tool Kit (Includes Sheeting)			
12 ft. x 16 ft.	(5) ZipWall 12 ft Spring Loaded Poles, (6) Foam Rail Span Adjustable Tapeless Seals, Foam Rail Tapeless Seal 2-Pack, (4) Wall Mounts, (5) Heads and Non Skid Plates, (5) Grip Disk Non Slip Pads, (2) Floor Adaptors, ZipWall Heavy Duty Zipper 2-Pack, Zip Door Standard Door Kit, (2) Edge Heads and Non Skid Plates, Zip Fast Reusable Barrier Panel Multi Pack, and Carry Bags	ZWTK	**54DC47**
ZipWall® Barrier Zippers and Doors			
Magnetic Barrier Door Kit, 7 ft. 2"	Door Panel, 4-3 ft 8 in and 2-2 ft 1 in Magnetic Strips, Header Bar with Clips for 10 ft and 12 ft, 20 ft ZipWall Spring Loaded Poles, Carry Bag	MDK	**54DC46**
Heavy-Duty Zipper, Pack of 2	(2) 7 ft Self-Adhesive Zippers, (2) Flap Hooks, (1) ZipperKnife(TM) Sheeting Cutter	HDAZ2	**9UTK2**
Heavy-Duty Zipper, Pack of 12	(12) Self-Adhesive Heavy Duty Zippers, (12) Flap Hooks and (1) Plastic Sheeting Cutter	HDAZ12	**32V059**
Standard Zipper, Pack of 2	(2) 7 ft Self-Adhesive Zippers and (2) Flap Hooks	AZ2	**9VD84**
ZipDoor® for Standard Doorways, 7 ft. H x 3 ft. L	Door, Built-In Zippers, Two-Sided Tape	ZDS	**32V060**
ZipDoor® for Commercial Doorways 8 ft. H x 4 ft. L, Flame Retardant	Door, Built-In Zippers, Two-Sided Tape	ZDC	**32V061**
ZipFast® Reusable Nylon Barrier Panels			
12 ft. H x 5 ft. L	—	ZF5	**45AP94**
12 ft. H x 5 ft. L	(3) 5 ft Wide Zippered Panel, 2 ½ ft Wide Zippered Panel, Carry Bag	ZFMP	**45AP92**
12 ft. H x 10 ft. L	—	ZF10	**45AR02**

Description	For Use With	Color	Mfr. Model	Item No.
ZipWall® Poles				
ZipWall® 10, Includes (2) 10 ft. Spring-Loaded Poles With Parts	Dust Barrier System Kits	Black	ZP2	**32V057**
ZipWall® 12, Includes (2) Poles, (2) Sets Of Parts	Dust Barrier System Kits	Silver	SLP2	**4FPK3**
ZipWall® 12, Includes Pack of (6) 12 ft. Spring-Loaded Poles with Parts	Dust Barrier System Kits	Silver	SLP6	**9VD17**
ZipWall® 20, Includes (2) 20 ft. Spring-Loaded Poles With Parts	Dust Barrier System Kits	Red	KT20	**9X846**
ZipWall® Accessories				
Side Pack Kit, 6 Clamps, 6 3' Foam Rails, Bag	Dust Barrier System Kits	—	SDPK	**9X847**
FoamRail™ Tapeless Seals	—	Black	FR2	**45AP96**
ZipWall® Carry Bag, Polyester	Dust Barrier System Kits	Black with Red Trim	CB1	**9XA26**
ZipWall® 10 Carry Bag, Polyester	Dust Barrier System Kits	Black With Blue Trim	ZPCB1	**32V066**
Dust Barrier ZipHook	Dust Barrier System Kits	Black	ZHK1	**32V065**
Dust Barrier Floor Adaptor	12" Pole	Black	FA12	**32V068**
Replacement Head	Spring Loaded Poles	Gray	HS1U	**54DC48**
Replacement Head/Plate Pack	Dust Barrier System Kits	—	TPH1	**9VDP1**
Replacement Non-Skid Plate, Pk. of 2	Dust Barrier System Kits	—	NSP2	**8EYU9**
GripDisk™ Pk. Of 2	Dust Barrier System Kits	Red	GD2	**9XA27**
Dust Barrier Floor Adaptor	10' ZipPole	Blue	FA10	**32V067**
Adustable Tapeless Seal	—	Silver, Black	SPN	**48UH58**



No. H1816



No. H1839



No. H1814

Polyethylene Traffic Doors

Chase Doors

- 24" bumpers included
- 30" and 36"W doors are sold individually, all others are sold in pairs

Polyethylene construction for durability. Corrosion-resistant panels have no gaps or joint seams. Double-acting V-Cam hinging system operates smoothly. Permanently lubricated needle-bearing roller assembly.

►**Please choose:** Beige, Black, Burgundy, Cadet Blue, Chocolate Brown, Cloud Gray, Forest Green, Jade, Medium Brown, Metallic Gray, Navy, Red, Royal Blue, or White.

Door Height	Door Width	Window Height	Window Width	Item No.
High Usage/Washdown				
7 ft.	2 ft. 6"	18"	12"	**H1816**
	3 ft.	16"	16"	**H1818**
	5 ft.	16"	16"	**H1836**
	6 ft.	16"	16"	**H1839**
8 ft.	3 ft.	16"	16"	**H1822**
	7 ft.	16"	16"	**H1850**
9 ft.	8 ft.	16"	16"	**H1853**
10 ft.	8 ft.	16"	16"	**H1855**

Door Height	Door Width	Window Height	Window Width	Item No.
Medium-Duty				
7 ft.	2 ft. 6"	18"	12"	**H1814**
	3 ft.	16"	16"	**H1815**
	5 ft.	16"	16"	**H1831**
	6 ft.	16"	16"	**H1835**
8 ft.	6 ft.	16"	16"	**H1837**
	8 ft.	16"	16"	**H1843**

Door Height	Door Width	Window Height	Window Width	Item No.
Heavy-Duty				
7 ft.	5 ft.	22"	14"	**G4687**
	6 ft.	22"	20"	**G4689**
8 ft.	6 ft.	22"	20"	**G4690**
	8 ft.	22"	20"	**G4691**
9 ft.	8 ft.	22"	20"	**G4692**
10 ft.	8 ft.	22"	20"	**G4693**



No. G2995



No. H1829

Flexible Traffic Doors

Chase Doors

- Textured vinyl construction with PVC body
- 36"W doors are sold individually, all others are sold in pairs

Designed for heavy-traffic applications, these traditional doors provide maximum opening clearance for wide loads. Replacement for existing doors is fast and easy due to simple construction of a top-mounted gravity hinging system.

►**Please choose:** Forest Green, Navy, Metallic Gray, Medium Brown, Red, Royal Blue, Chocolate Brown, or Black.

Door Height	Door Width	Window Height	Window Width	Item No.
7 ft.	3 ft.	14"	15"	**G2990**
	5 ft.	14"	15"	**G2992**
	6 ft.	14"	15"	**G2994**
8 ft.	5 ft.	14"	15"	**G2993**
	6 ft.	14"	15"	**G2995**
	7 ft.	35"	76"	**H1829**
	8 ft.	35"	88"	**H1832**



No. 12A736

Chase Doors

Smooth Aluminum Traffic Doors

Easy-to-open doors weigh less than impact doors, making them ideal for light-duty applications where cost and aesthetic appeal are considerations.

Door Height	Door Width	Window Height	Window Width	Item No.
Single Doors				
7 ft.	3 ft.	14"	9"	**12A736**
8 ft.	3 ft.	14"	9"	**12A737**
Pair of Doors				
8 ft.	5 ft.	14"	9"	**12A739**
8 ft.	6 ft.	14"	9"	**12A741**

Garage Door Locking Components

American garage door supply inc. ★ GA GRAINGER APPROVED

Description	Finish	Brand	Item No.
Inside Slide Lock	Galvanized	American Garage Door Supply	5MVG8
Inside Lock Mechanism	Galvanized	American Garage Door Supply	5MVG9
Lift Handle	Zinc	American Garage Door Supply	5MVH4
Blank T-Handle For Use with Snap Locks	Chrome	GA	1RBH8
Rotating Eye Corner Hasp	Natural	GA	1RBG5
Deadbolt Lock and Cylinder For Use with Slidable Locking Bar Locks	Aluminum	GA	1XND2
Outside Locking L-Handle For Use with Snap Locks	Chrome	GA	1XNC8
Outside Locking T-Handle	Chrome	GA	1XNC9


No. 5MVG8


No. 5MVG9


No. 5MVH4

American garage door supply inc.

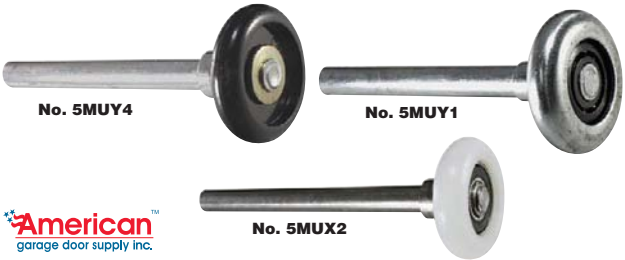
Vertical Lift Garage and Dock Doors

- U-shaped bottom astragal protects against the elements and provides a positive seal
- Heavy-duty 10-ball commercial rollers
- Hinges are 14-ga., hot-dipped galvanized steel
- Include all hardware needed to install


No. 36R638

Noninsulated doors are embossed and ribbed steel. The exterior and interior are prefinished, then finish coated with baked-on polyester primer and acrylic. Insulated doors feature polystyrene insulation bonded between 26-ga. substrate. Provide incredible strength and thermal protection. Flush wood grain embossed panels.

Door Width	Opening Height	Opening Width	Minimum Height Clearance	Includes Windows	NONINSULATED Item No.	INSULATED Item No.
7 ft. 8"	10 ft.	7 ft. 6"	21 ft.	Yes	36R638	36R686
8 ft.	8 ft.	7 ft. 10"	17 ft.	No	36R664	36R713
8 ft. 2"	8 ft.	8 ft.	17 ft.	No	36R668	36R717
8 ft. 2"	9 ft.	8 ft.	19 ft.	No	36R669	36R718
8 ft. 2"	10 ft.	8 ft.	21 ft.	No	36R670	36R719
9 ft. 2"	10 ft.	9 ft.	21 ft.	Yes	36R654	36R703


No. 5MUY4

No. 5MUY1

No. 5MUX2

American garage door supply inc.

Garage Door Rollers

Roller Width/ Dia. (in.)	Shaft Length	Bearings	Item No.	Pkg. Qty.
Nylon				
2	4"	—	5MUY4	10
Roller				
1¾	4"	Steel 10 Ball	5MUY5	10
Steel				
2	4½"	Steel 10 Ball	5MUY1	4
2	7"	Steel 10 Ball	5MUY2	4
2	9"	Steel 10 Ball	5MUY3	4
3	4"	Steel 10 Ball	5MUX8	4
3	7"	Steel 10 Ball	5MUX9	4
3	9"	Steel 10 Ball	5MUY0	4
Stainless Steel With UHMW Polyethylene Tire, For Harsh Conditions				
2	4½"	Precision Chrome Steel, Sealed	5MUX2	4
3	7½"	Stainless Steel Sealed	5MUX7	4
2¾	4½"	—	5MUX0	4


No. 36R944

American garage door supply inc.

Garage and Dock Door Extension Springs

- Double-end loop style
- Sold in pkg. of 2

All extension springs include high-quality, black-coated spring wire and are rated for a minimum of 10,000 cycles on an appropriate door height and weight. Color-coded for easy identification.

Description	Item No.
Garage Door Extension Spring	
7-ft. High Garage Doors - 25" to 42" Stretch	
80 lb. Pull Per Pair	36R944
90 lb. Pull Per Pair	36R945
100 lb. Pull Per Pair	36R946
110 lb. Pull Per Pair	36R947
120 lb. Pull Per Pair	36R948
130 lb. Pull Per Pair	36R949
140 lb. Pull Per Pair	36R950
150 lb. Pull Per Pair	36R951
160 lb. Pull Per Pair	36R952
8-ft. High Garage Doors - 27" to 48" Stretch	
80 lb. Pull Per Pair	36R953
90 lb. Pull Per Pair	36R954
100 lb. Pull Per Pair	36R955
110 lb. Pull Per Pair	36R956
120 lb. Pull Per Pair	36R957
130 lb. Pull Per Pair	36R958
140 lb. Pull Per Pair	36R959
150 lb. Pull Per Pair	36R960
160 lb. Pull Per Pair	36R961
Accessories	
Clip Extension Spring Cable Adjustment	36R962
Fork Extension Spring, 3"	36R963
Fork Extension Spring, 4"	36R964
Tandum Hookup Kit Extension Springs	36R965


No. 5MVE4


No. 5MVF7

American garage door supply inc.

Garage Door Drums, Pulleys, and Cable Assemblies

Description	Max. Wt. (Lb.)	Item No.
Drums and Pulleys, Pkg. of 2		
3" Cable Pulley	200	5MVF4
4" Cable Pulley	200	5MVF5
Commercial Drum, Keyed	1000	5MVF0
Commercial Drum, Specialty Coated, Keyed	1000	5MVE4
High Lift Drum, Keyed	550	5MVF1
	1000	5MVF2
High Lift Drum, Specialty Coated, Keyed	550	5MVE5
	1000	5MVE6
Light Commercial Drum, Keyed	750	5MVE9
Light Commercial Drum, Specialty Coated, Keyed	750	5MVE3
Residential Drum	530	5MVE8
Residential Drum, Specialty Coated	530	5MVE2
Vertical Lift Drum, Keyed	850	5MVF3
Vertical Lift Drum, Specialty Coated, Keyed	850	5MVE7

Outside Dia.	L (in.)	Pkg. Qty.	STAINLESS Item No.	STAINLESS Includes	GALVANIZED Item No.	GALVANIZED Includes
⅛	104	2	5MVF6	Thimble	5MVG2	Loop Only
⅛	116	2	5MVF7	Thimble	5MVG3	Loop Only
⅛	140	2	5MVF8	Thimble	5MVG4	Thimble
5/32	140	2	5MVF9	Thimble	5MVG5	Thimble
⅛	164	2	5MVG0	Thimble	5MVG6	Thimble
5/32	164	2	5MVG1	Thimble	5MVG7	Thimble

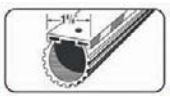

No. 5MUZ1


No. 5MVC7

American garage door supply inc.

Garage Door Hinges and Brackets

Description	Material	Finish	Item No.	Pkg. Qty.
Hinges and Brackets				
Adjustable Top Roller Bracket	Steel	Zinc	1RBX2	1
Garage Door Hinges				
#1 Heavy Duty	Zinc	Galvanized Steel	5MVA2	4
#2 Heavy Duty	Zinc	Galvanized Steel	5MVA3	2
#3 Heavy Duty	Zinc	Galvanized Steel	5MVA4	2
#4 Heavy Duty	Zinc	Galvanized Steel	5MVA5	2
#5 Heavy Duty	Zinc	Galvanized Steel	5MVA6	2
#6 Heavy Duty	Zinc	Galvanized Steel	5MVA7	2
	Stainless Steel	Mill Stainless Steel	5MUZ1	2
#9 Heavy Duty	Stainless Steel	Mill Stainless Steel	5MUZ4	2
Brackets				
Top Fixture, Adjustable	Steel	Zinc Plated	5MVC7	2


No. 2RRT5


No. 2RRT9

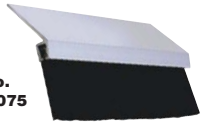

No. 5MFH0

GA GRAINGER APPROVED

Garage Door Thresholds and Seals


No. 2RRT5

Description	Color	L	W	H	Item No.
Threshold Kits					
10 ft. Single	Gray	10 ft.	3½"	½"	5MFH0
20 ft. Double	Gray	20 ft.	3½"	½"	5MFH1
Type	**▶CHOOSE: Color**	**Overall Length**	**Overall Width**	**Overall Height**	**Item No.**
Seals for Top and Sides					
Nonadhesive	Brown, White	9 ft.	2½"	—	G2344
Bottom Seals					
Base Mount PVC Vinyl, Aluminum Flange	Black	9 ft.	1⅝"	—	2RRT5
	Black	18 ft.	1⅝"	—	2RRT6
PVC Vinyl Replacement for Base Mount	Black	9 ft.	2½	—	2RRT7
	Black	18 ft.	2⅝"	—	2RRT8
Rubber Nail-On, No Flange	Black	9 ft.	2"	1"	2RRU1
	Black	16 ft.	2"	1"	2RRU2
	Black	100 ft.	2"	1"	2RRU2


No. 36T075


No. 36T071

Overall Length	Brush Size	Item No.
45° Angle 1¼" Retainer		
8 ft.	1" Brush	36T075
	1½" Brush	36T079
	2" Brush	36T083
10 ft.	1" Brush	36T076
	1½" Brush	36T080
	2" Brush	36T084
12 ft.	1" Brush	36T077
	1½" Brush	36T081
	2" Brush	36T085
14 ft.	1" Brush	36T078
	1½" Brush	36T082
	2" Brush	36T086
Straight 3" Retainer		
8 ft.	3" Brush	36T071
10 ft.	3" Brush	36T072
12 ft.	3" Brush	36T073
14 ft.	3" Brush	36T074

American garage door supply inc.

Garage and Dock Door Brush Weather Seals

- Polypropylene brush

Energy-saving overhead door brush weather seals help prevent elements from entering the building through gaps in or around the loading docks.


No. 5MVD5


No. 5MVD6


No. 5MVD7


No. 5MVJ4

American garage door supply inc.

Garage Door Accessories

Description	Finish	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Garage Door Bearings					
Stainless Steel Greasable Bearing with Aluminum Housing	Stainless Steel	1	—	5MVD5	2
Steel Freeway Bearing, 3" Hole to Hole	Zinc Plated	1	2	5MVD6	4
Steel Football Bearing, 3" Hole to Hole	Zinc Plated	1	—	5MVD7	4

Description	Material	Finish	L (in.)	Item No.	Pkg. Qty.
Garage Door Fasteners					
Self Driller Hinge Screw With Rubber Washer	400 Stainless Steel	—	1	5MVA0	24
Self Tapper Hinge Screw With Rubber Washer	304 Stainless Steel	—	1	5MVA1	24
¼" dia. Self Driller Hinge Screw	Steel	Galvanized	⅝	5MVD3	24
Self Driller Hinge Screw	Steel	Galvanized	—	5MVD1	24
Self Tapper Hinge Screw	Steel	Galvanized	1	5MVD2	24
Carriage Bolt	Steel	Galvanized	2¼	5MVD4	24
Track Bolts	Stainless Steel	Mill Finish Stainless Steel	⅝	5MVH9	16

Description	Material	L (in.)	Item No.	Pkg. Qty.
Counterbalance Hardware				
¼" Square Key Stock	304 Stainless Steel	3	5MVD8	8
¼" Square	Zinc Plated Galvanized Steel	3	5MVD9	8
Painted Coupler	Painted Steel	1	5MVE0	1
Coated Coupler	Powder Coated Steel	1	5MVE1	1

Description	For Use With	Item No.	Pkg. Qty.
Aluminum Exhaust Ports			
Latching 3"	Up to ¼" Doors	5MVJ0	1
Latching 3"	Up to 2" Doors	5MVJ1	1
Latching 4"	Up to ¼" Doors	5MVJ2	1
Latching 4"	Up to 2" Doors	5MVJ3	1

Material	Item No.	Pkg. Qty.
Leaf Bumper With Brackets		
Steel	5MVJ4	2


No. 36R789


No. 36R805


No. 36R780


No. 36R796

Truck Door Parts

American garage door supply inc.

All hardware is suitable for direct replacement on original OEM truck doors. For additional parts, see Grainger.com®.

Description	Item No.	Pkg. Qty.
Hinges		
Bottom Fixture Assembly	36R787	1
Center Hinge	36R788	4
Recessed End Mounting Roller Hinge	36R789	2
Flush Mounting Adjustable Top Fixture	36R790	2
Flush Mount Center Hinge	36R803	4
End Hinge, Galvanized Steel, Flush	36R798	2
Top Fixture, Flush Mount	36R804	2
Face Hardware		
Lift handle	36R805	1
Locks		
Lock Keeper	36R780	1
Latch Plate	36R781	1
Maximum Security Lock	36R782	1


No. 36R791


No. 36R815


No. 36R813


No. 36R801

Description	Item No.	Pkg. Qty.
Door Cable Assembly		
3" Diameter	36R779	1
Cable Anchor Bracket	36R796	2
Heavy Duty Cable Anchor Bracket	36R797	2
95" Long x ⅛" O.D., 7 x 19 Strand	36R806	1
110" Long x ⅛" O.D., 7 x 19 Strand	36R807	1
115" Long x ⅛" O.D., 7 x 19 Strand	36R808	1
120" Long x ⅛" O.D., 7 x 19 Strand	36R809	1
125" Long x ⅛" O.D., 7 x 19 Strand	36R810	1
125" Long x ⅛" O.D., 7 x 19 Strand	36R811	1
130" Long x ⅛" O.D., 7 x 19 Strand	36R812	1
Counter Balance		
Left Hand Cable Drum and Bearing Assembly	36R791	1
Right Hand Cable Drum and Bearing Assembly	36R792	1
Repair Tape		
4" x 15 mil x 100 ft.	36R815	1
6" x 15 mil x 100 ft.	36R816	1
Door Pull Strap Assembly		
2" x 18"	36R813	1
2" x 24"	36R814	1
Rollers for Overhead Truck Doors		
Zinc Galvanized Finish Stem and Steel Tire For Use with 1"D Track	36R786	4
Zinc Galvanized Finish Stem and Nylon Tire For Use with 2"D Track	36R801	4
Zinc Galvanized Finish Stem and Steel Tire For Use with 2"D Track	36R802	4

LiftMaster
American garage door supply inc.

Overhead Door Openers and Control Systems

COMMERCIAL

½ HP, 115V motor for 12 cycles per hour, max. 50 cycles per day.

Hoist-Type Door Openers— Floor-level emergency chain hoist with electric interlock allows manual operation. Adjustable-friction clutch reversal system. Can be right or left mounted. Include wall-mounted, 3-button control station and standard solenoid brake. Prewired to accept sensing devices and optional radio control receiver No. 3ZRX2 and transmitters Nos. 46K657 and 3ZRX1.

Trolley-Type Door Opener— Solid double "L" rail handles heavier doors and allows quick installation. Internal auxiliary reversal system. Wired to accept optional radio control receiver No. 3ZRX2.

COMMERCIAL ACCESSORIES

Transmitters— Feature rolling code antiburglary technology. 315 MHz. No. 46K657 controls up to four separate doors and includes two 5-year, 3V lithium batteries. No. 3ZRX1 controls one door.

Note: 390 MHz frequency transmitters and receivers are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "garage door opener accessories."

INDUSTRIAL

½ HP, 115V continuous-duty motor for 25 cycles per hour, up to 80 to 90 cycles per day. Door closure timer can be set for 5-sec. or 1-min. increments.

Hoist-type door opener No. 2TRN1 has an emergency chain hoist with electric interlock. Nos. 36R922 through 36R924 are manually operated chain hoists. Trolley-type door openers Nos. 2TRN2 to 2TRN6 have a low profile.

UNIVERSAL ACCESSORIES

Photo Eyes— Feature a noncontact, infrared door-reversing sensor that provides protection on doors up to 30 ft. wide. Door automatically opens when beam is broken. Include emitter, receiver, mounting brackets, and operator interface. Wall- or floor-mounted. No. 6XZV7 is water- and dust-tight.


No. 4GY87


No. 6UR99


No. 46K657


No. 2TRN1


No. 36R922


No. 2TRN3


No. 6XZV6

Description	Max. Door Width (ft.)	Max. Door Height (ft.)	Brand	Item No.
Commercial				
Hoist-Type Door Opener, Right Hand Mount	22	14	LiftMaster	4GY87
Hoist-Type Door Opener, Left Hand Mount	22	14	LiftMaster	4UKX7
Trolley-Type Door Opener	22	14	LiftMaster	6UR99
Commercial Accessories				
4-Button Remote Control Transmitter for No. 3ZRX2	—	—	LiftMaster	46K657
1-Button Transmitter for No. 3ZRX2	—	—	LiftMaster	3ZRX1
Radio Control Receiver	—	—	LiftMaster	3ZRX2
Industrial				
Hoist-Type Door Opener, Right Hand Mount	22	24	LiftMaster	2TRN1
Hoist-Type Door Opener, Left Hand Mount	22	24	LiftMaster	4UKX6
Manual Chain Hoist Wall Mount - 1" Bore	—	18	American Garage Door Supply	36R922
Manual Chain Hoist Shaft Mount - 1" Bore	—	18	American Garage Door Supply	36R923 *
Manual Chain Hoist Shaft Mount - 1¼" Bore	—	18	American Garage Door Supply	36R924 *
Trolley-Type Door Opener	22	16	LiftMaster	2TRN3
	22	18	LiftMaster	2TRN4
	22	20	LiftMaster	2TRN5
	22	24	LiftMaster	2TRN6
Universal Accessories				
Universal Keyless Entry	—	—	LiftMaster	2TRL8
1-Button Transmitter for No. 6UR93	—	—	LiftMaster	6UR95
Photo Eyes	—	—	LiftMaster	6XZV6
NEMA 4 Photo Eyes	—	—	LiftMaster	6XZV7

** Jack Shaft Mounting*


No. 2ELV3

TELECTRON

SUPPLIER DIVERSITY®

Radio-Operated Control System

Radio Control System— For use with all start and stop operations and garage door openers.

Extra Transmitters— Allow control by multiple users. Check receiver code number and set transmitter code to match receiver code.

3-Button Control Station— 3 controls allow separate open and close operations as well as stop function. Operates on 24V power.



No. 6X891

Description	Item No.
Radio Control System, 433.9 Mhz	2ELV3
Extra Transmitter, 225 Mhz	6X893
Extra Transmitter, 433.9 Mhz	2ELV4
3-Button Control Station	6X891

American garage door supply inc.

NEMA 1 Control Stations for Garage and Dock Doors

Description	Item No.
Stainless Steel Faceplate, Back Box, Momentary Contacts and (2) Buttons with OPEN-CLOSE	36R988
Stainless Steel Faceplate, Back Box, Momentary Contacts and (3) Buttons with OPEN-CLOSE-STOP	36R989
Faceplate, Back Box, Momentary Contacts and (3) Oval Buttons with OPEN-CLOSE-STOP	36R990
Non-Metallic Enclosure, Faceplate, Momentary Contacts and (3) Buttons with OPEN-CLOSE-STOP	36T005
Non-Metallic Enclosure, Double Pole Contacts and (3) Buttons with OPEN-CLOSE-STOP	36T008


No. 36R989



No. 36R990

American garage door supply inc.

Radio Controls for Garage and Dock Doors

- Rated for continuous-duty
- 318 MHz

Compact garage and dock door radio controls provide easy access to doors. Additional controls available on Grainger.com®.

Radio Control Sets— No. 36T057 includes Receiver No. 36T039 and Transmitter No. 36T056. No. 36T058 combines Receiver No. 36T039 and Transmitter No. 36T045. No. 36T059 combines Receiver No. 36T039 and Transmitter No. 36T045.

Radio Transmitters— Include 9V battery and visor clip. Nos. 36T043, 36T044, and 36T046 have Open, Close, and Stop functions. Other models are single function.


No. 36T046


No. 36T045



No. 36T043


No. 36T055

Type	Voltage	For Use With	Item No.
Radio Control Set			
1 Channel	—	(1) Door	36T057
1 Channel	—	(2) Doors	36T058
3 Channel	—	(3) Doors	36T059
Radio Transmitter			
1 Channel	9V DC	(1) Door	36T046
1 Channel	9V DC	(1) Door	36T064
1 Channel	9V DC	(3) Doors	36T045
3 Channel, Beige	9V DC	(1) Door	36T043
3 Channel, Black	9V DC	(1) Door	36T044
Radio Control Transmitter			
1 Channel	9V DC	(1) Door	36T055
1 Channel	9V DC	(1) Door	36T056
2 Channel	9V DC	(2) Doors	36T065


No. 437V13


No. 437V17


No. 437V15


No. 437V18

Industrial Tricycles

GA GRAINGER APPROVED

- **Front cantilever V-brakes**
- **Durable steel frames**

Industrial-quality tricycles are the quick-and-easy way to get around large facilities. Rider-friendly—these 3-wheel bikes are capable of handling various size loads. Easy-to-grab hand brakes. Wide cruiser seat adjusts for differing heights. Large wire basket on Nos. 437V12–437V13 and 437V16–437V17.

Basket—60-lb. capacity. Fits Nos. 437V15, 437V18, and 437V19.

Description	Load Capacity	Wheel Dia.	Spokes	Color	Item No.
Bicycles					
Standard Duty Chain	250 lb.	24"	0.080 ga.	Blue	**437V12**
	250 lb.	24"	0.080 ga.	Green	**437V13**
	250 lb.	24"	0.080 ga.	Purple	**437V16**
	250 lb.	24"	0.080 ga.	Red	**437V17**
Medium Duty Chain	350 lb.	24"	0.080 ga.	Yellow	**437V15**
Heavy Duty Chain	500 lb.	26"	0.105 ga.	Black	**437V18**
	500 lb.	26"	0.105 ga.	Yellow	**437V19**
Basket					
Basket, 21 x 15 x 9"	—	—	—	—	**437V14**


No. 26W613


No. 2W877


No. 2W878


No. 3KR77


No. 1F144



No. 26W611

Trailer-Stabilizing Jacks and Notice Sign

Dayton IRONguard Protecting Your People

Jacks prevent up-ending semitrailers not connected to tractors, level trailers parked on slopes, and prevent landing gear from sinking into soft surfaces. High-strength steel. Flush-type zerk fitting for relubricating Acme screw. With reflective night-visible collar.

GAS-ACTIVATED JACKS

Gas-operated system automatically raises the stand and operator locks in place.

HYDRAULIC JACK

Lift heavy loads using force created by a hydraulic cylinder. The force is created by the pressure in the cylinder chamber.

RATCHET JACKS

Have 8"-dia. wheels.

No. 4W287—Triangular base has 18" sides. Two-way reversible ratchet with 2"-dia. thread screw allows a 12" adjustment range. 8"-dia. swivel head.

No. 3KR77—Extra-wide 6"W x 24"L lifting beam aids trailer support. Two handles assist positioning jack under trailer. Two-way reversible ratchet for adjusting height.

No. 2W878—With easily reversible 2-way ratchet, 2½"-dia. thread screw, and 12" adjustment range. 8"-dia. swivel head, 8"-dia. solid rubber wheels.

SPIN TOP JACKS

Manually turned Acme thread screw raises and lowers jack for fast installation and removal.

No. 2W877—With 10"L lift screw. 14"-dia. dome-shaped base for max. leveling stability. Not made for lifting.

No. 1F144—12" adjustment range. 8"-dia. swivel head and 8"-dia. solid rubber wheels.

NOTICE SIGN

Notifies drivers that OSHA requires use of trailer stabilizer jacks during loading and unloading.

Lifting Capacity	Static Load Capacity	Adjustment Range	Wheel Dia.	Brand	Item No.
Gas Activated					
Not Rated	100,000 lb.	37" to 48"	16"	Ironguard Safety Products	**458R40**
		39¼" to 52½"	10"	Dayton	**26W613**
Hydraulic					
40,000 lb.	100,000 lb.	41" to 47"	10"	Dayton	**26W618**
Ratchet					
40,000 lb.	80,000 lb.	39" to 51½"	10"	Dayton	**26W612**
		39" to 51"	8"	Dayton	**4W287**
		39½" to 51"	8"	Dayton	**3KR77**
	100,000 lb.	39" to 51½"	10"	Dayton	**26W614**
		44½" to 57"	10"	Dayton	**26W615**
50,000 lb.		39" to 51"	8"	Dayton	**2W878**
Spin Top					
5000 lb.	50,000 lb.	41" to 57½"	8"	Dayton	**26W617**
		44" to 51"	None	Dayton	**2W877**
		44" to 51"	None	Dayton	**26W616**
40,000 lb.	100,000 lb.	39" to 51"	8"	Dayton	**1F144**
Not Rated		38½" to 49½"	10"	Ironguard Safety Products	**458R41**
Notice Sign					
Aluminum, 9⅞ x 11 13/16"				Dayton	**26W611**


2 Sections
No. 3CA84

GA GRAINGER APPROVED

Telescopic Support Braces

Provide extra support for leveling and stabilizing floor beams and joists during construction and repairs. Telescopic style with removable pins lets you properly position the brace for better leveling. End pad includes screw and turning bar for height adjustment. Welded steel construction.

Min. Service Height (in.)	Max. Service Height (in.)	No. of Sections	Cap. @ Min. Height (lb.)	Cap. @ Max. Height (lb.)	Item No.
12	16	1	9738	9738	**3CA86**
19	36	2	9738	6863	**3CA84**
54	100	2	8438	5600	**3CA85**
54	150	3	11,200	2588	**3CA83**

BLUFF MANUFACTURING, INC.

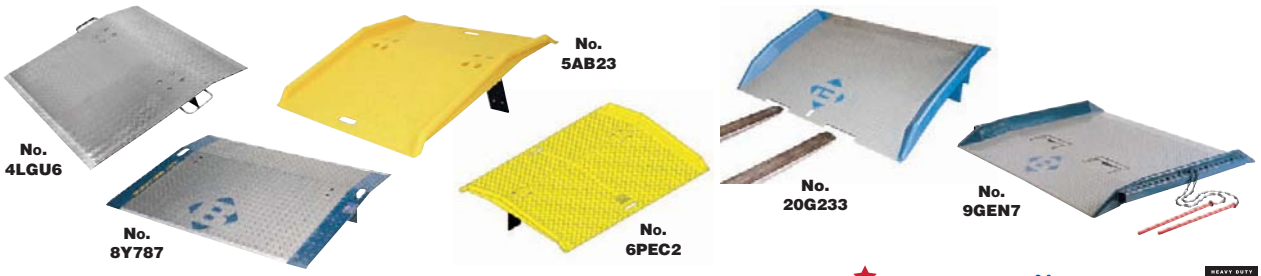
GA GRAINGER APPROVED


No. 20G280

Steel Yard Ramps

These ramps are designed to load trailers from ground level. Deep side members prevent run-off for forklift use. The usable width of 78" allows transit of most lift trucks and electric vehicles.

Load Capacity	Overall Length	Overall Width	Lowered Height	Raised Height	Brand	Item No.
16,000 lb.	30 ft.	84"	40"	72"	Bluff	**9DL31**
	36 ft. Including a 6 ft. Level Off	84"	33"	67"	Bluff	**8AKJ2**
20,000 lb.	36 ft. Including a 6 ft. Level Off	84"	33"	67"	Bluff	**8AKJ3**
30,000 lb.	30 ft.	70"	40"	72"	GA	**32KG02**
	30 ft.	84"	40"	72"	GA	**32KG03**
	36 ft. Including a 6 ft. Level Off	70"	33"	67"	GA	**32KG05**
	36 ft. Including a 6 ft. Level Off	84"	33"	67"	GA	**20G280**



Dockplates, Dockboards, and Container Ramps

GA GRAINGER APPROVED

Aluminum Dockplates—Nonskid tread plate. Zinc-plated handle or hand-holds on each side. Locking legs secure dockplate when in use.

Aluminum Fork Truck Dockboards with Aluminum Curbs—Handle higher load capacities than dockplates. Feature safety curbs. Positive traction treadplate with beveled entrance and exit lip. Legs allow easy fork truck positioning and secure dockboard when in use, for OSHA compliance. When using 3-wheeled fork truck, order dockboard with capacity at least four times the lifting capacity of the fork truck.

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
Aluminum Dockplates					
1,400 lb.	48"	30"	7"	GA	**4LGV4**
1,800 lb.	60"	48"	9"	GA	**4LGU7**
1,900 lb.	48"	36"	7"	GA	**4LGV6**
2,500 lb.	36"	36"	5"	GA	**4LGV3**
2,600 lb.	48"	48"	7"	GA	**4LGV9**
2,900 lb.	48"	60"	7"	GA	**4LGU8**
3,000 lb.	30"	36"	4"	GA	**4LGV5**
3,300 lb.	30"	42"	4"	GA	**4LGV7**
3,500 lb.	36"	48"	5"	GA	**4LGU6**
3,600 lb.	24"	36"	3"	GA	**4LGV2**
3,800 lb.	48"	48"	7"	GA	**4LGU9**
4,100 lb.	36"	60"	5"	GA	**4LGW1**
4,000 lb.	24"	36"	1"	Bluff	**8Y787**
5,200 lb.	24"	48"	3"	GA	**4LGV8**
5,300 lb.	36"	48"	5"	GA	**4LGW2**
6,600 lb.	36"	60"	5"	GA	**4LGV1**
9,500 lb.	30"	72"	4"	GA	**4LGW3**
11,350 lb.	30"	72"	2"	Bluff	**9HPE2**
Aluminum Fork Truck Dockboards with Aluminum Curbs					
5,000 lb.	30"	60"	3" to 4"	GA	**6XW86**

Aluminum Fork Truck Dockboards with Steel Curbs—Structural steel safety curbs are bolted to each side of dockboard. When using 3-wheeled fork truck, order dockboard with capacity at least four times the lifting capacity of the fork truck.

Aluminum Hand Truck Dockboards—Use with 2-wheel hand trucks only. Diamond tread surface and beveled edges. Bolted locking legs for OSHA compliance.

Container Ramps—For fast loading and unloading at ground level. Eliminate the need for queuing.

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
8,000 lb.	48"	72"	5½" to 7"	GA	**4W598**
15,000 lb.	59¾"	60"	7" to 10"	GA	**6XW90**
Aluminum Fork Truck Dockboards with Steel Curbs					
10,000 lb.	72"	60"	8½" to 11"	Bluff	**9MHD0**
15,000 lb.	60"	60"	7" to 9"	Bluff	**9MHD1**
	36"	60"	5"	GA	**6XX29**
20,000 lb.	36"	72"	5"	GA	**6XX31**
	48"	60"	7"	GA	**6XX30**
	48"	72"	7"	GA	**6XX32**
Aluminum Hand Truck Dockboards					
800 lb.	59⅞"	37¼"	10"	GA	**6XW74**
Steel Container Ramps					
	60"	60"	7" to 9"	Bluff	**20G252**
15,000 lb.	72"	60"	8½" to 11"	Bluff	**20G253**
	72"	72"	8½" to 11"	Bluff	**20G258**
20,000 lb.	60"	72"	7" to 9"	Bluff	**20G262**
Aluminum Container Ramps					
	36"	36"	8"	Heavy Duty Ramps	**401J33**
5,000 lb.	48"	36"	8"	Heavy Duty Ramps	**401J34**
	48"	45"	8"	Heavy Duty Ramps	**401J35**
10,000 lb.	48"	63"	8"	Heavy Duty Ramps	**401J36**
	60"	63"	8"	Heavy Duty Ramps	**401J37**

BLUFF MANUFACTURING, INC. HEAVY DUTY HD RAMPS

Polyethylene Portable Dockplates—Designed for light-duty applications. Integrated guardrails and handles. Hardware included. Meet OSHA 1910.30(a).

Steel Fork Truck Dockboards with Steel Curbs—Lever lift mechanism raises front edge of dockboard off the ground to allow for one-person operation. Lever automatically falls to rest position as dockboard is lifted. When using 3-wheeled fork truck, select capacity +20% greater than the lifting capacity of the fork truck.

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
Polyethylene Dockplates					
750 lb.	36"	35"	4"	GA	**5AB23**
	36"	48"	4"	GA	**6PEC2**
Steel Fork Truck Dockboards with Steel Curbs					
	36"	72"	5"	GA	**6XX34**
10,000 lb.	48"	60"	5" to 7"	Bluff	**20G233**
	48"	72"	7"	GA	**4W600**
	60"	60"	7" to 9"	Bluff	**20G234**
	36"	72"	5"	GA	**4W601**
	48"	60"	5" to 7"	Bluff	**9GEN7**
	48"	72"	5" to 7"	Bluff	**8CEG6**
15,000 lb.	48"	72"	7"	GA	**6XX37**
	54"	72"	8½"	GA	**4W602**
	60"	60"	7" to 9"	Bluff	**9HY65**
	60"	72"	7" to 9"	Bluff	**20G243**
	72"	72"	8½" to 11"	Bluff	**8AKH9**
	48"	72"	5" to 7"	Bluff	**20G248**
	48"	84"	5" to 7"	Bluff	**20G272**
20,000 lb.	72"	84"	8½" to 11"	Bluff	**20G274**
	72"	72"	8½" to 11"	Bluff	**8XPZ3**

Aluminum Walk Ramps

GA GRAINGER APPROVED

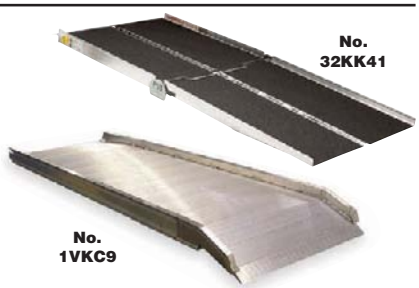
- Nonskid surfaces

Nos. 1VKC9 and 1VKD1 to 1VKD8 have 3¾"H curb. Nos. 1FC73 to 1FC75 have 4¼"H side rails to keep load safely on ramp. Two 36"L safety chains hold ramp in place.

Note: Ramps are designed for use with hand trucks. Do not use with powered equipment or pallet jacks.

Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Adjustable Ramps - Without Side Rail				
800 lb.	32"	1 ft.	1" to 2"	**32KK54**
800 lb.	32"	2 ft.	2" to 4"	**32KK56**
800 lb.	32"	3 ft.	3½" to 6"	**32KK58**
800 lb.	32"	4 ft.	4" to 6"	**32KK60**
800 lb.	36"	1 ft.	1" to 2"	**32KK55**
800 lb.	36"	2 ft.	2" to 4"	**32KK57**
800 lb.	36"	3 ft.	3½" to 6"	**32KK59**
800 lb.	36"	4 ft.	4" to 6"	**32KK61**
Multi Fold Ramps - 1½" Side Rail				
800 lb.	30"	5 ft.	5" to 10"	**32KK41**
800 lb.	30"	6 ft.	6" to 12"	**32KK42**
800 lb.	30"	7 ft.	7" to 14"	**32KK43**
800 lb.	30"	8 ft.	8" to 16"	**32KK44**

Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Ramps with Handrails - 2" Side Rail				
850 lb.	36"	4 ft.	4" to 8"	**32KK68**
850 lb.	36"	5 ft.	5" to 10"	**32KK69**
850 lb.	36"	6 ft.	6" to 12"	**32KK70**
850 lb.	36"	7 ft.	7" to 14"	**32KK71**
850 lb.	36"	8 ft.	8" to 16"	**32KK72**
Single Fold Ramps - 1½" Side Rail				
800 lb.	30"	2 ft.	2" to 4"	**32KK34**
800 lb.	30"	3 ft.	3" to 6"	**32KK35**
800 lb.	30"	4 ft.	4" to 8"	**32KK36**
800 lb.	30"	5 ft.	5" to 10"	**32KK37**
Solid Ramps - 1½" Side Rail				
800 lb.	30"	3 ft.	3" to 6"	**32KK62**
800 lb.	30"	4 ft.	4" to 8"	**32KK64**
800 lb.	30"	5 ft.	5" to 10"	**32KK66**
800 lb.	36"	3 ft.	3" to 6"	**32KK63**
800 lb.	36"	4 ft.	4" to 8"	**32KK65**
800 lb.	36"	5 ft.	5" to 10"	**32KK67**
Solid Ramps - 3¾" Side Rail				
1000 lb.	40"	16 ft.	6 to 62"	**1VKD8**
1200 lb.	38"	14 ft.	6 to 54"	**1VKD6**
1400 lb.	28"	12 ft.	6 to 46"	**1VKD5**
1400 lb.	38"	12 ft.	6 to 48"	**4YFP2**
1400 lb.	40"	12 ft.	6 to 46"	**1VKD7**
1500 lb.	38"	10 ft.	6 to 38"	**1VKD4**
1700 lb.	28"	8 ft.	6 to 29"	**1VKD2**
1700 lb.	38"	8 ft.	6 to 29"	**1VKD3**
2000 lb.	28"	6 ft.	6 to 21"	**1VKC9**
2000 lb.	38"	6 ft.	6 to 21"	**1VKD1**



Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Solid Ramps - 4¼" Side Rail				
2200 lb.	39½"	10 ft.	2 to 37"	**1FC75**
2500 lb.	29"	8 ft.	2 to 31"	**1FC74**
2800 lb.	29"	69"	2 to 21"	**1FC73**
Threshold Ramps - Without Side Rail				
600 lb.	32"	8"	½" to 1¼"	**32KK47**
600 lb.	32"	10"	½" to 1¼"	**32KK48**
600 lb.	32"	12"	1" to 2"	**32KK49**
600 lb.	32"	16"	1¼" to 2½"	**32KK50**
600 lb.	32"	24"	2" to 4"	**32KK52**
600 lb.	36"	16"	1¼" to 2½"	**32KK51**
600 lb.	36"	24"	2" to 4"	**32KK53**

Loading Ramps

GA GRAINGER APPROVED

For loading machines and small vehicles. Ramps have rubber-tipped fingers that provide traction and prevent scratching. Safety straps included.

Description	Load Capacity	L	W	Item No.
1-Piece Steel	1000 lb. / Pair	72"	9"	**1DLU8**
1-Piece Steel	1000 lb. / Pair	96"	9"	**1DLU9**
Centerfold Steel Mesh Ramp	1600 lb.	80"	11"	**52JU43**
Straight Arched Aluminum Ramp	1200 lb	90"	11"	**5JDT6**
Straight Aluminum Ramp	1400 lb.	72"	15"	**52JU42**
Folding Aluminum	1500 lb.	78"	50"	**1TFZ3**





Hand Pump Hydraulic



Mechanical Spring Counterbalance



Electric Hydraulic

GA GRAINGER APPROVED

Dock Levelers

- Load capacity: 20,000 lb.
- For docks at least 48"H

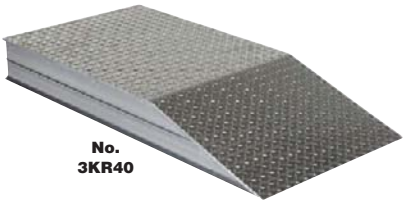
Permanently attach to dock face. Provide service range of 5" up, 5" down. No concrete recess required. Include 2" x 8" x 18" bumpers and steel bumper boxes. Can be used with Dock Seal No. 3KR49 or Dock Shelter No. 3KR50.

Dock Leveler Lift Mechanism	Usable Width	Overall Width	Item No.
Mechanical Spring Counterbalance	66"	93"	5Z151
	72"	99"	3KR66
Hand Pump Hydraulic	66"	93"	6XX23
	72"	99"	6XX24
Electric Hydraulic	66"	93"	6XX21
	72"	99"	6XX22

Mechanical Spring Counterbalances—Include handle for manual operation.

Hand Pump Hydraulics—Include hand pump, brackets, cylinder, hydraulic line, and oil.

Electric Hydraulics—Powered by ¾ HP, 110/220V, single-phase motor prewired to 115V, single-phase standard. Include motor, pump, control box, cylinder, brackets, lines, and oil.



No. 3KR40

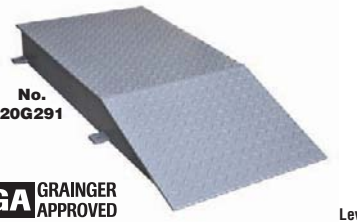
GA GRAINGER APPROVED

Aluminum Truck Wheel Risers

- Priced and sold individually

30,000-lb. capacity per pair.

H	W	L	Level Length	Item No.
6"	18"	48"	30"	4UP78
6"	24"	48"	30"	3KR40
6"	24"	60"	42"	6XW79
8"	18"	54"	30"	6XW77
8"	24"	54"	30"	6XW81
8"	24"	60"	36"	6XW82
8"	24"	108"	84"	6XW80
12"	24"	72"	36"	6XW78



No. 20G291

GA GRAINGER APPROVED

Steel Truck Wheel Risers

- 40,000-lb. capacity per pair
- Priced and sold individually

H	W	L	Level Length	Item No.
4"	24"	96"	84"	20G297
6"	24"	48"	30"	20G291
6"	24"	102"	84"	20G292
8"	24"	54"	30"	20G293
8"	24"	108"	84"	20G294
10"	24"	60"	30"	20G295
12"	24"	120"	84"	20G296



Dock Seal



Dock Seal/Shelter Combination

Dock Seals and Seal/Shelter Combinations

GA GRAINGER APPROVED

Dock seals have 36-oz. nylon-reinforced vinyl facing, mounted and bonded on wolmanized wood. Dock seal/shelter combinations have 18-oz. nylon-reinforced sides and 40-oz. nylon-reinforced top. Seals fasten directly to surface of building wall. Include 24"H yellow guide stripes and installation hardware.

Projection	Side Width	Side Height	Header Height	Overall Width	Overall Height	Fits Door Width	Fits Door Height	Item No.
Dock Seal								
10"	12"	96"	12"	120"	108"	8 ft.	8 ft.	5Z152
10"	12"	108"	12"	120"	120"	8 ft.	9 ft.	2HEP9
12"	12"	96"	12"	120"	108"	8 ft.	8 ft.	5MKA5
12"	12"	108"	12"	120"	120"	8 ft.	9 ft.	5MKA7
20"	12"	96"	12"	120"	108"	8 ft.	8 ft.	3KR49
20"	10"	108"	12"	120"	120"	8 ft.	9 ft.	2HER1
Dock Seal/Shelter Combination								
10"	12"	120"	30"	114"	126"	8 ft.	10 ft.	2HER4
12"	12"	120"	30"	114"	126"	8 ft.	10 ft.	5MKA6
20"	12"	120"	30"	114"	126"	8 ft.	10 ft.	2HER5



No. 2HER3



Dock Shelter

GA GRAINGER APPROVED

Dock Shelters

- Max. door size of 10 ft. W x 10 ft. H
- 132"W x 126"H

Seal off warehouse and interior loading dock from outside elements, keeping heating and cooling air inside and the elements out while allowing full access to truck door height and width. Heavy-duty reinforced vinyl exterior reduces wear.

Includes	Projection	Item No.
Safety Yellow Steel Guide Protectors and Corner Filler Pads, 36" Drop Curtain with 40 oz. Pleat, 21" Vertical Flaps, Installation Hardware and Instructions	18"	2HER2
	24"	3KR50
Independent Spring Loaded Scissors Mechanism to Allow Shelter to Retract With the Trailer Keeping the Shelter Square, Installation Hardware and Instructions	24"	2HER3 *
Safety Yellow Steel Guide Protectors and Corner Filler Pads, 36" Drop Curtain with 40 oz. Pleat, 21" Vertical Flaps, Installation Hardware and Instructions	30"	5MKA8
	36"	5MKA9
Dock Seal Patch Kit		
(2) Pieces of 18 oz. Vinyl 12" x 36"; (2) Pieces of 18 oz. Vinyl 12" x 24"; (2) Pieces of 18 oz. Vinyl 12"x12"; (1) 18 oz. Can Of Glue and Instructions		5MKC0

** Retractable.*



No. 5GAC5

Dock Barricades

GA GRAINGER APPROVED

- Welded steel construction
- Safety yellow finish
- 24"W

Mechanical model No. 5GAC5 has a hand crank winch and counter balance weight. Electric hydraulic models Nos. 5GAC3 and 5GAC4 include powered lift with 115V lift motor and 24V hand control.

Description	Overall Length	Raised Arm Height	Lowered Arm Height	Item No.
Mechanical Hand Winch For Use With 8 ft. x 8 ft. Doors	133¼"	149"	32"	5GAC5
Electric Hydraulic For Use With 8 ft. x 8 ft. Doors	130"	148⅝"	28½"	5GAC3
Electric Hydraulic For Use With 10 ft. x 10 ft. Doors	157"	172⅝"	28½"	5GAC4
Manual For Use With 8 ft. Wide Doors	—	—	—	33RZ23

Dock Bumpers

Weather- and abrasion-resistant; protect docks, dock levelers, and shelters from impact damage. Individual sections can be replaced if damaged. Installation Kits Nos. 36F680 and 36F681 are sold separately.

LAMINATED DOCK BUMPERS

Prevent impact damage at loading dock. Constructed from same material used in heavy-duty tire cord. Weld to channel or to curb angle with one preset bolt. Mount with anchor bolts in new concrete construction or with lag bolts and shields for existing concrete. Wood dock mount requires lagging. Flush-mounted.

D-SHAPE

Compress on contact, reducing impact force between building and vehicle. Mounting holes on the back of the bumper protect vehicle's finish. 1-piece construction reduces gaps between bumpers.

L- AND T-SHAPE

T-Shape No. 2MYR8 includes a reflector.

GA GRAINGER APPROVED

RECTANGULAR

Include a thick molded-in steel bar running the length of each bumper; anchor the rubber to the dock. Mounting fasteners not included.

BUMPER STOP

Draws attention to high-traffic areas. Features a neon yellow caution stripe down its center, recessed to protect it from impact damage.

INSTALLATION KITS

Single Bumper—Includes four concrete anchor bolts (¾" x 4"L) and one ¾" masonry drill bit for installing one laminated dock bumper.

Additional Bumper—Includes four concrete anchor bolts (¾" x 4"L). Does not include masonry drill bit.



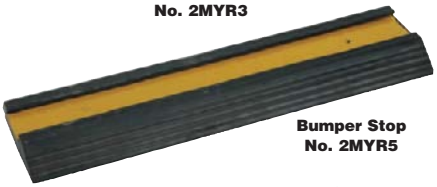
Rectangular
No. 5W823



Rectangular
No. 2MYR2



L-Shape
No. 2MYR3



Bumper Stop
No. 2MYR5

Overall Width	Overall Height	Overall Depth	Mounting Holes O.C. W	Mounting Hole Dia.	Item No.
Laminated Rubber					
Rectangular					
13"	24"	4½"	11"	⅞"	22NT90
	36"	4½"	11"	⅞"	22NT91
14"	10"	4½"	12"	13⁄16"	3KR36
	12"	4½"	12"	⅞"	22NT86
16"	10"	4½"	14"	13⁄16"	5W823
20"	10"	4½"	18"	13⁄16"	5W824
	10"	4½"	18"	⅞"	22NT83
	10"	6"	18"	13⁄16"	4W942
	12"	4½"	18"	⅞"	22NT87
26"	10"	4½"	24"	13⁄16"	5W825
	10"	4½"	24"	⅞"	22NT84
	12"	4½"	24"	⅞"	22NT88
38"	6"	4½"	36"	13⁄16"	5W826
	10"	4½"	36"	⅞"	22NT85
	12"	4½"	36"	13⁄16"	5W827
	12"	4½"	36"	⅞"	22NT89
Molded Rubber					
D-Shape					
12"	1 1 1⁄16"	2"	6"	⅜"	22NT58
	4"	4¼"	6"	⅞"	22NT61
24"	1 1 1⁄16"	2"	18"	⅜"	22NT59
	4"	4¼"	18"	⅞"	22NT62
36"	1 1 1⁄16"	2"	15"	⅜"	22NT60
	4"	4¼"	15"	⅞"	22NT63
L-Shape					
18"	18"	4"	10¼"	3¾"	2MYR3
Rectangular					
2"	2½"	8"	—	½"	22NT80
3½"	6"	3½"	—	½"	22NT82
4½"	10"	3"	5"	1½"	2MYP8
	30"	3"	5"	1½"	2MYP9
5½"	8"	3½"	5½"	19⁄32"	22NT81
16"	2"	2"	—	½"	22NT79
18"	8"	2"	8"	2"	2MYR2
24"	12"	3"	6"	⅞"	2MYR9
Rectangular Bumper Stop					
5¼"	18"	1⅜"	3"	1⅛"	2MYR5
Solid Black Rectangular					
12"	13"	4"	9¼"	⅞"	2MYR1
T-Shape					
22"	22"	3"	15 13⁄16"	⅞"	2MYR8
Yellow Face					
12"	13"	4"	7½"	⅞"	2MYR4

Overall Width	Overall Height	Overall Depth	Mounting Holes O.C. W	Mounting Hole Dia.	Item No.
Recycled Rubber					
Rectangular					
10"	13"	5"	7"	13⁄16"	32KL52
10⅛"	20"	4½"	8"	13⁄16"	26W604
13"	20"	4½"	11"	13⁄16"	26W591
	20"	6"	11"	13⁄16"	26W595
	24"	4½"	11"	13⁄16"	26W592
	24"	6"	11"	13⁄16"	26W596
	30"	4½"	11"	13⁄16"	26W593
	30"	6"	11"	13⁄16"	26W597
	36"	4½"	11"	13⁄16"	26W594
	36"	6"	11"	13⁄16"	26W598
13⅛"	10"	4½"	6"	13⁄16"	26W603
14"	10"	6"	12"	13⁄16"	26W579
	12"	4½"	12"	13⁄16"	26W573
	12"	6"	12"	13⁄16"	26W584
16"	10"	6"	14"	13⁄16"	26W580
	12"	4½"	14"	13⁄16"	26W574
	12"	6"	14"	13⁄16"	26W585
20"	12"	4½"	18"	13⁄16"	26W575
	12"	6"	18"	13⁄16"	26W586
26"	6"	4½"	24"	13⁄16"	26W569
	10"	6"	24"	13⁄16"	26W581
	12"	4½"	24"	13⁄16"	26W576
	12"	6"	24"	13⁄16"	26W587
32"	10"	4½"	30"	13⁄16"	26W570
	10"	6"	30"	13⁄16"	26W582
38"	10"	4½"	36"	13⁄16"	26W571
	10"	6"	36"	13⁄16"	26W583
	12"	6"	36"	13⁄16"	26W589
98"	10"	4½"	96"	13⁄16"	26W572
	12"	4½"	96"	13⁄16"	26W578
	12"	6"	96"	13⁄16"	26W590
Steel Face					
13"	20"	5¼"	11"	⅞"	22NT72
	24"	5¼"	11"	⅞"	22NT73
	36"	5¼"	11"	⅞"	22NT74
16"	10"	5¼"	14"	⅞"	22NT64
	12"	5¼"	14"	⅞"	22NT68
20"	10"	5¼"	18"	⅞"	22NT65
	12"	5¼"	18"	⅞"	22NT69
Installation Kits					
Single Bumper Installation Kit					33F680
Additional Bumper Installation Kit					33F681



Solid Black
No. 2MYR1



T-Shape
No. 2MYR8



No.
32KL52



Steel Face
No. 22NT72

GA GRAINGER APPROVED

Trailer/Crane Bumpers

- Priced and sold in sets of 2

Mount directly onto truck trailers and cranes to protect them from contact with docks, buildings, or other trailers and cranes. Mounting hardware not included. No. 2MYR7 includes steel washers molded in bottom of access holes.



No.
2MYR6

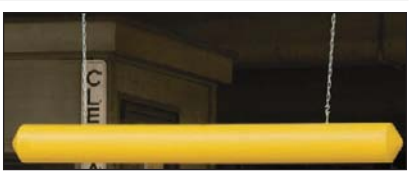
Overall Width	Overall Height	Overall Depth	Mounting Hole Dia.	Mounting Holes O.C. W	Item No.
3½"	6"	3⅛"	1¼"	3"	2MYR6 *
3½"	6¼"	3⅝"	1¼"	3½"	2MYR7

** Slotted to 3".*

GA GRAINGER APPROVED

Clearance Bars

Include eye bolts. Nos. 6MGV7 and 6MGV8 include lettering kit.



No. 4PHE1



No. 6MGV7

Overall Length	Outside Dia.	Material	Item No.
76"	5"	Polyethylene	4PHD9
77"	7"	Polyethylene	4PHE1
80"	5"	Polyethylene	6MGV7
80"	7⅜"	Polyethylene	6MGV8



Molded Rubber with Eyebolt No. 1GUL1



Extruded Aluminum No. 5A347



No. 22XW88



No. 22XW75

**Meet OSHA Specification 1910.178(k).*

General Purpose Wheel Chocks

GA GRAINGER APPROVED

RUBBER

Molded Rubber—Resist tearing, abrasion, and ozone weathering. No. 3W666 wedges both sides of wheel with two molded rubber chocks. Order one unit for each wheel. No. 22XW75 is made of recycled rubber for utility trucks and trailers. Nos. 1GUK4 to 1GUK6 feature a grooved surface. Nos. 1GUK7 to 1GUK9 are hollow and 3-sided.

Molded Urethane—Rubber pads grip pavement. Width of chock has molded open area for attaching security chain.

Laminated Rubber—Cord-reinforced serrated rubber on steel rods. Feature large handle.

STEEL

Heavy-Duty Steel—Bottom teeth for maximum traction. With easy-grip slot for pickup and positioning. No. 1GUL3 includes 10-ft. chain.

Formed Steel—Long-life, all-weather chocks have saw tooth bottom. Include hole for attaching security chain and hanger.

ALUMINUM

Extruded Aluminum—Serrated surface grips tire, and triple-edged bottom grips ground.

Description	W	H	D	Color	Item No.	
Rubber						
Molded Rubber						
With Carrying Handle	4"	6"	7⅝"	Black	**22XW85**	
With Carrying Handle, Grip Bottom	4½"	7"	10½"	Black	**22XW83**	
Kit includes Mfr. No. 22XW75, 22XW77, 22XW78, 22XW79	8"	5½"	10"	Black	**22XW80**	
With Steel Grab Handle, Ice Cleat Tread	8"	5½"	10"	Black	**22XW75**	
With Steel Grab Handle, Serrated Tread	8"	5½"	10"	Black	**22XW79**	
With Steel Grab Handle, Hollow Tread	8"	5½"	10"	Black	**22XW78**	
With Steel Grab Handle, Smooth Tread	8"	5½"	10"	Black	**22XW77**	
With Steel Grab Handle	8"	5½"	9½"	Black	**22XW74**	
	8"	6"	10"	Black	**22XW88**	
	8"	6"	10"	Orange	**22XW89**	
	9¼"	6"	8"	Orange	**19P541**	*
	8"	6"	9⅞"	Black	**22XW72**	
	8"	5"	10"	Black	**22XW73**	
With Steel Grab Handle and Eye Bolt	10"	6"	8"	Orange	**1GUK3**	
	10"	6"	8"	Black	**2A092**	
With Rubber Grab Handle and Hole for Attaching Chain	7¼"	7⅝"	9⅜"	Black	**1GUL2**	*
With Eyebolt	9"	6"	8"	Black	**1GUL1**	
With Steel Eyebolt	8"	5½"	9"	Black	**22XW81**	
	8"	5½"	9"	Black	**22XW82**	
	8"	5¾"	9"	Orange	**22XW71**	
	6"	7½"	11½"	Black	**22XW84**	
With Molded Hole	8"	8"	13¾"	Orange	**22XW87**	
With Rope Handle	3⅜"	2½"	8"	Black	**22XW86**	
	10"	4½"	5"	Black	**3W666**	
With Hollow Center	4"	3"	6¾"	Black	**1GUK4**	
	6"	3"	6¾"	Black	**1GUK5**	*
	12"	3"	6¾"	Black	**1GUK6**	*

Description	W	H	D	Color	Item No.	
With Reflective Tape	10"	4"	4¼"	Black with Yellow Tape	**1GUK7**	*
	12"	6"	6½"	Black with Yellow Tape	**1GUK8**	*
	30"	6"	6½"	Black with Yellow Tape	**1GUK9**	*
Extruded with Molded Hole for Attaching Chain	6½"	4½"	5"	Black	**19P546**	*
Molded Urethane						
Molded Urethane	9¼"	6"	8"	Orange	**19P545**	*
With Molded Hole for Attaching Chain	14½"	14¼"	17¼"	Orange	**1GUL6**	*
	15"	11"	11¾"	Yellow	**1GUL5**	*
Molded Urethane	7⅝"	8¼"	11¾"	Orange	**33K204**	
With Molded Hole for Attaching Chain	8"	8"	11"	Orange	**4W941**	*
Laminated Rubber						
Laminated with Steel Hook Loop	11⅛"	13¾"	13¾"	Black	**19P550**	*
With Steel Hook Loop	7"	7½"	7½"	Black	**1GUL4**	*
With Large Handle	10"	5½"	10½"	Black	**3KR79**	
Steel						
Heavy-Duty Steel	8½"	8¼"	7"	Yellow	**22XW76**	
	9¾"	7¾"	10½"	Yellow	**1GUL3**	*
Formed Steel	6"	9"	17⅛"	Yellow	**19P547**	*
	8"	9"	10¾"	Yellow	**3KR56**	*
Welded Steel	7⅝"	9"	9³⁄₁₆"	Yellow	**19P548**	*
Fabricated Steel with 10 Ft. Chain	10½"	7½"	10½"	Yellow	**19P549**	*
Cast Iron						
Heavy-Duty Cast Steel	9"	8½"	8"	Silver	**2W874**	*
Aluminum						
Extruded Aluminum	7"	8"	11⅝"	Yellow	**19P542**	*
Extruded Aluminum with Handle	7"	8"	11⅝"	Silver	**19P543**	*
Extruded Aluminum with Triple Edged Bottom Grip Ground	7"	8½"	11"	Silver	**5A347**	
Extruded Aluminum includes Flag With Sign	7"	8"	11⅝"	Silver	**19P544**	*
Accessories						
Chain and Anchor	—	—	—	Silver	**5A348**	



Rail Car Wheel Chock No. 22XW90



Monster® Aviation Wheel Chocks No. 5NHP9



Monster® Wheel Chocks No. 21ZF79

GA GRAINGER APPROVED MONSTER MOTION SAFETY

Specialty Wheel Chocks

Rail Car Wheel Chocks—All-welded steel chocks for securing rail cars for safe loading and unloading. No. 22XW93 is sold as a pair.

Monster® Wheel Chocks—Urethane construction made for mining and construction trucks. Will not cause tire damage. Oil- and chemical-resistant. Feature carrying handle.

Monster® Aviation Wheel Chocks—Impact-absorbing urethane construction. Oil- and chemical-resistant. Will not rot or splinter. Feature replaceable nylon rope lanyards.

Monster® All-Terrain Urethane Wheel Chocks—Oil- and chemical-resistant. For use with utility trucks and trailers. Urethane chocks are designed for fire trucks and all-terrain applications. Feature carrying handle. All-Terrain Urethane chocks comply with NFPA 1901-1909 and meet SAE-J348 Specifications.

Description	W	H	D	Color	Brand	Item No.
Rail Car Wheel Chocks						
With (1) Chock	7½"	3¾"	12½"	Yellow	GA	**22XW91**
With (2) Chocks and Chain	7½"	3¾"	12½"	Yellow	GA	**22XW93**
Chocks Include Legend: "Chock Your Wheels" and Flag	7½"	20"	41"	Yellow	GA	**22XW90**
Chocks Include Legend: "Chock Your Wheels" (2) Chocks, Chain and Flag	7½"	20"	41"	Yellow	GA	**22XW92**
Monster® Urethane Heavy Duty Wheel Chocks						
For Use with Heavy Equipment	14½"	16"	24⅝"	Yellow	Monster	**21ZF81**
	14¹⁵⁄₁₆"	10¹⁹⁄₃₂"	21¹⁵⁄₁₆"	Yellow	Monster	**21ZF82**
	15¹³⁄₆₄"	10"	17¹¹⁄₁₆"	Yellow	Monster	**21ZF80**
	15⁷⁄₆₄"	11"	15"	Yellow	Monster	**21ZF79**
Mounting Bracket for use with Monster® Chocks						
Chock Holder	36"	5"	6"	Steel	Monster	**5NHP0**
Monster® Urethane Aviation Wheel Chocks						
24" Rope	4½"	2¾"	5½"	Hi-Vis Yellow	Monster	**5NHP9**
Wheel Chock	5"	3"	12"	Hi-Vis Yellow	Monster	**5NHR0**
	6"	4"	14"	Hi-Vis Yellow	Monster	**5NHR8**
	5"	3"	15"	Hi-Vis Yellow	Monster	**5NHR2**
	5"	3"	18"	Hi-Vis Yellow	Monster	**5NHR4**
	8"	6"	20"	Hi-Vis Yellow	Monster	**5NHT0**
Aircraft Wheel Chock	5"	3"	21"	Hi-Vis Yellow	Monster	**5NHR6**
With 24" Rope	5"	3¼"	12"	Hi-Vis Yellow	Monster	**5NHR1**
	5"	3¼"	15"	Hi-Vis Yellow	Monster	**5NHR3**
	5"	3¼"	18"	Hi-Vis Yellow	Monster	**5NHR5**
	5"	3¼"	21"	Hi-Vis Yellow	Monster	**5NHR7**
With 36" Rope	6"	4¼"	14"	Hi-Vis Yellow	Monster	**5NHR9**
	8"	6"	20"	Hi-Vis Yellow	Monster	**5NHT1**
With 48" Rope	8"	6"	56"	Hi-Vis Yellow	Monster	**5NHT2**
Monster® All-Terrain Urethane Wheel Chocks						
All-Terrain	8½"	8¼"	15½"	Yellow	Monster	**5NHT4**
	8½"	8¼"	15½"	Yellow	Monster	**5NHT6**
	11¼"	12¼"	21"	Yellow	Monster	**5NHU0**
	11¼"	12¼"	21"	Yellow	Monster	**5NHU2**
Utility Vehicles	7½"	6¼"	8½"	Orange	Monster	**8Y016**
	9"	8½"	11½"	Orange	Monster	**3KRT7**
Mounting Brackets for use with Monster® All-Terrain Wheel Chocks						
Horizontal for No. 5NHT6	11⅛"	6¾"	16"	Silver	Monster	**5NHT7**
Vertical for No. 5NHT6	12"	5¾"	14"	Silver	GA	**5NHT8**
Horizontal for Nos. 5NHU0 to 5NHU2	14⅛"	6¾"	21¾"	Silver	Monster	**5NHU3**
Vertical for Nos. 5NHU0 to 5NHU2	12¼"	1⅝"	21¾"	Silver	Monster	**5NHU4**



No. 29NH30



No. 2GTG3



No. 29NH34

GA GRAINGER APPROVED

Parking Curbs, Mounting Kits, and Signs

- Mounting kits sold separately

Description	L	W	H	Color	Item No.
Parking Curbs - 100% Recycled Rubber					
Installs to Asphalt with Spikes	3 ft.	6"	4"	Black/Yellow	**490W86**
Installs to Concrete with Bolts	3 ft.	6"	4"	Black/Yellow	**490W87**
Installs to Asphalt, Concrete with Bolts, Spikes	1 ft. 10"	6"	4"	Black/Yellow	**29NH30**
	4 ft.	6"	4"	Black/White	**29NH42**
	4 ft.	6"	4"	Black/Yellow	**29NH41**
	6 ft.	6"	4"	Blue/White	**29NH34**
	6 ft.	6"	4"	Black/White	**29NH32**
	6 ft.	6"	4"	Black/Yellow	**29NH31**
	6 ft.	6"	4"	Red/White	**29NH33**
Parking Curbs - Polyethylene					
Installs to Asphalt, Concrete with Spikes	6 ft.	6"	4"	White	**491T27**
Installs to Asphalt, Concrete with Asphalt Adhesive, Spikes	6 ft.	8"	4"	Black/Yellow	**8PHZ1**
Parking Curbs - HDPE					
Installs to Asphalt, Concrete with Asphalt Adhesive, Spikes	6 ft.	8"	4"	Blue	**2GTG5**
	6 ft.	8"	4"	Gray	**2GTG4**
	6 ft.	8"	4"	Yellow	**2GTG3**
Mounting Kits					
Asphalt					
For Parking Curbs and Speed Bumps w/2-Holes	5⅜"	6"	12½"	Gray	**2VDA7**
For 72" L Parking Curbs	5⅜"	6"	12½"	Gray	**4UP84**
For Parking Curbs and Speed Bumps w/4-Holes or Less	5⅜"	6"	12½"	Gray	**2VDA9**
Concrete					
For Parking Curbs and Speed Bumps w/2-Holes	¾"	¾"	6⅜"	Silver	**2VDA6**
For 72" L Parking Curbs	¾'	¾"	6⅜"	Silver	**4UP82**
For Parking Curbs and Speed Bumps w/4-Holes or Less	¾"	¾"	6⅜"	Silver	**2VDA8**
Parking Curb Glue Down Kit					
For Use With 48" L Car Stops	5"	5"	⅝"	Silver	**5XPR2**
For Use With 72" L Car Stops	5"	5"	⅝"	Silver	**5XPR3**
For Use With 96" L Car Stops	5"	5"	⅝"	Silver	**5XPR4**
Accessories					
Lag Bolts				Silver	**29NH37**
Lag Bolts Shields				Silver	**29NH38**
Rebar Spikes				Silver	**29NH39**



No. 33K180



GA GRAINGER APPROVED

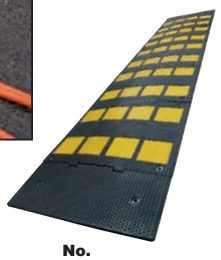
Portable Speed Bump

- 1¾"H x 8¾"W

Includes	Color	L	Item No.
Carrying Case	Yellow	10 ft.	**33K180**



No. 2GTG6



No. 29NH25



No. 29NH35



No. 36A808

GA GRAINGER APPROVED

Speed Bumps, Mounting Kits, and Caution Sign

HOSE AND CABLE RAMPS

Nos. 2GWL7 to 2GWL9 are wider to increase channel height while retaining incline. Mounting kit not included.

RECYCLED PLASTIC SPEED BUMPS

Bottom side includes two ¾" x 1" channels for hoses and cables.

POLYETHYLENE SPEED BUMPS

Constructed of durable and lightweight HDPE. Highly visible bright yellow. Flexible design fits contour of road or factory floor. Can be used as a cable protector. Include asphalt mounting kit.

MOLDED RUBBER SPEED BUMPS

Multipiece speed bumps allow easy installation and different length requirements. Include 1 center, 2 end modules, and mounting hardware.

SPEED BUMP GLUE DOWN KITS

For applications where drilling holes in the mounting surface is not recommended. For 72"L speed bumps order 2 Glue Down Kits No. 5XPR8.

RECYCLED RUBBER SPEED BUMPS

Cover cabling, piping, and have channeled bottom for drainage. No. 29NH36 is a bump end cap.

L	W	H	Material	Item No.
Cable Ramps				
3 ft.	7⅛"	1⅛"	Aluminum	**1TFT9**
3 ft.	9⅛"	1½"	Aluminum	**2GWL7**
4 ft.	7⅛"	1⅛"	Aluminum	**1F141**
4 ft.	9⅛"	1½"	Aluminum	**2GWL8**
6 ft.	9⅛"	1½"	Aluminum	**2GWL9**
Hose and Cable Ramps				
6 ft.	10"	2"	Polyethylene	**2GTG6**
9 ft.	10"	2"	Polyethylene	**2GTG7**
Speed Bumps - Rubber with Concrete Mounting Hardware				
9 ft.	24"	1⅛"	Rubber	**29NH25**
10 ft.	36"	2"	Rubber	**29NH27**
Speed Bumps - Rubber with Asphalt Mounting Hardware				
9 ft.	24"	1⅛"	Rubber	**29NH26**
10 ft.	36"	2"	Rubber	**29NH28**
Speed Bumps - Recycled Rubber				
4 ft.	12"	2¼"	Rubber	**29NH40**
6 ft.	12"	2¼"	Rubber	**29NH35**

Description	L	W	H	Item No.
Installation Kits for Asphalt				
For Use with Nos. 2VDC1 and 5XPR5	13"	7"	6"	**2VDC2**
For Use with No. 5XPR6	13"	7"	6"	**4UP95**
For Use With No. 4UP94	13"	7"	6"	**5ZW59**
Speed Bump Glue Down Kits				
For Use With 48" L Speed Bumps w/3-Holes	9"	5"	4"	**5XPR7**
For Use With 36" L Speed Bumps w/4-Holes	9"	5"	4"	**5XPR8**
For Use With 108" L Speed Bumps w/5-Holes	9"	5"	4"	**5XPR9**
End Caps				
For Use with Nos. 29NH40 and 29NH35	9"	12"	2¼"	**29NH36**
Caution Sign				
18"H x 12"W, Recycled Aluminum	—	12"	18"	**36A808**



No. 5AB22





No. 6YG07

Column and Corner Protectors

GA GRAINGER APPROVED

100% HDPE is resistant to chemicals, rust, stress, and cracks. For indoor and outdoor use. Safety yellow.

Column Protectors—Fit all types of columns. Key-lock minimizes slippage and assists with alignment during installation. Protectors install with two 2" black nylon belts with hook-and-loop fasteners (included) and are stackable. No. 5AB22 has a slim profile.

Corner Protectors—Install on overhead door frames, corners, vertical columns, or horizontally as machine or rack guards. Protectors install with bolts or nylon straps (not included). Sold in sets of two.

Fits Column Size	Overall Height	Item No.
Column Protectors		
4" to 6"	42"	**5AB22**
6"	42"	**5PW11**
8"	42"	**5PW12**
10"	24"	**32NC66**
10"	42"	**5PW13**
12"	24"	**32NC68**
12"	42"	**5PW14**

Overall Height	Overall Depth	Overall Width	Inside Dimensions	Item No.
Corner Protectors				
10"	10"	6"	4" x 8"	**6YG07**
10"	10"	6"	4" x 8"	**6YG08**

No. F0485



No. E7132

GA GRAINGER APPROVED

Bollard Covers

Nonconductive, chemical-resistant polyethylene sleeves slide over bollard posts and can be trimmed for an exact fit. Reduce rusting, chipping, discoloration, and painting. Sleeve wall is approx. 3/16" thick.

For Post Size	Outside Dia.	Inside Dia.	Overall Height	▶CHOOSE: Color	Item No.
Ribbed					
4" dia.	5¾"	4¾"	56"	Black, Blue, Brown, Green, Lime Green, Orange, Red, White, Yellow	**F0486**
6" dia.	7⅞"	6⅞"	56"		**F0485**
8" dia.	10"	8⅞"	57"		**F0487**
Smooth					
4" dia.	5¼"	4¾"	56"	Red, Yellow	**E7131**
6" dia.	7⅜"	6⅞"	56"		**E7132**
8" dia.	9⅜"	8⅞"	57"		**E7133**



No. 45XC48



No. 4NEN3

Security Bollards

GA GRAINGER APPROVED

No. 45XC48 features a removable plastic cap with chain slots. No. 4NEN3 can be mounted indoors or outdoors.

Overall Height	Outside Dia.	Mounting Plate Dimensions	Color	Item No.
24"	4½"	8" x 8"	Yellow	**45XC48**
42"	1 11/16"	6" x 6"	Silver	**5NPR6**
42"	1 11/16"	6" x 6"	Yellow	**5NPR7**
42⅛"	4"	8" dia.	Silver	**4NEN3**



No. 4GRE7



No. 4GRF1



No. 4GRF4

GA GRAINGER APPROVED

Bollard Covers With Reflective Strips

HDPE is weather-, chemical-, and abrasion-resistant. Each comes with two foam strips and installation instructions.

Overall Height	Inside Dia.	Outside Dia.	Yellow with Red Tape Item No.	Yellow with White Tape Item No.	Red with White Tape Item No.
52"	4¾"	5"	**4GRE5**	**4GRE8**	**4GRF2**
60"	7"	7 23/64"	**4GRE6**	**4GRE9**	**4GRF3**
72"	8 13/16"	9 3/16"	**4GRE7**	**4GRF1**	**4GRF4**

Premium Column Protectors



No. 33RH93



No. 33RJ03



No. 33RJ09

PREMIUM COLUMN PROTECTORS

These protectors are heavy-duty with air vents and deep pockets that deflect impact energy away from columns. LLDPE is semiflexible and stress-crack resistant. Chemical-resistant, nonconductive, waterproof, easy to clean, and removable for maintenance. Easy to install. Straps included. Sizes to fit most columns.

CONCRETE WRAP COLUMN PROTECTION

Easy-to-install polyurethane foam wrap adds a layer of protection around concrete columns, helping eliminate the constant chipping, painting, and maintenance to concrete columns. Semiflexible and crack-resistant.

COLLISION PROTECTION FOR PARKING STRUCTURE COLUMNS AND WALLS

Easy and attractive way to add a layer of effective of protection around parking structure columns and walls. Made of ARPRO®, a high-tech material specifically engineered to absorb impact. Provides soft, scratch-resistant protection to protect vehicles and columns from collision damage. These modular designs are easily customizable for any size column or wall space.

Fits Column Size	Fits Column Shape	Overall Height	Overall Width	Includes	YELLOW Item No.	BLACK Item No.
Column Protectors						
4" to 8"	Rectangle, Round, Square	42"	16"	(2) Straps	**448T02**	—
6"	Round or Square	42"	24"	(2) Black Nylon Straps	**33RH92**	—
8"	Square	42"	24"	(2) Straps	**448R94**	—
8"	Round or Square	42"	24"	(2) Black Nylon Straps, Cutout for Fire Ext.	**33RH93**	—
8" to 12"	Rectangle, Round, Square	42"	20"	(2) Straps	**448T01**	—
9"	Round	42"	24"	(2) Black Nylon Straps	**33RH94**	—
10"	Square	42"	24"	(2) Straps	**448R95**	—
12"	Square	42"	24"		**448R96**	—
12"	Square	42"	24"	(2) Straps, Cutout for Fire Extinguisher	**448R97**	—
12" x 24"	Rectangle	42"	38"	(2) Straps	**448R98**	—
14"	Round or Square	42"	33"	(2) Black Nylon Straps	**33RH96**	—
16"	Round or Square	42"	33"		**33RH97**	—
18"	Round or Square	42"	38"		**33RH98**	—
20"	Round or Square	42"	38"		**33RH99**	—
30"	Round	42"	44"	(2) Straps	**448R99**	—
Concrete Wrap Column Protectors						
24"	Round	42"	44"	(2) Black Nylon Straps and (2) Panels	**33RJ03**	—
24"	Round	48"	44"		**33RJ04**	—
Collision Protection						
24"	Square	39¼"	2¼"	(4) Corners/Carton and Interlocking Keys	—	**33RJ07**
24"	Square	39¼"	17¼"	(4) Planks/Carton and Interlocking Keys	**33RJ06**	**33RJ08**
24"	Square	39¼"	17¼"	(4) Corners (2) Straps, (4) Planks	**33RJ09**	—
24"	Round	39¼"	27½"	(3) Planks Per Carton	**33RJ11**	**33RJ12**
—	—	1 37/64"	27 39/64"	(12) Panels, (12) Wall Clips	**448T03**	**448T04**
Collision Protection - Wall Clips						
55½"	Rectangle	1½"	1½"	(12) Clips Per Carton	—	**33RJ13**

L	W	Color	Item No.	Pkg. Qty.
Parking Column Protector Straps				
100"	2"	Yellow	**33RJ14**	2
100"	2"	Black	**33RJ18**	2
158"	2"	Black	**33RJ20**	2


No. 21XL91


No. 21XM05

Galvanized Steel Guard Rails

GA GRAINGER APPROVED

Corrosion- and impact-resistant rails mount on center. 5"-dia. mounting posts have 8" holes on center and 10" x 10" mounting plates. For indoor and outdoor use.

	Overall Height	Overall Length	Color	Item No.
Guard Rail				
	12¼"	4 ft.	Silver	**21XL91**
	12¼"	6 ft.	Silver	**21XL92**
	12¼"	8 ft.	Silver	**21XL93**
	12¼"	10 ft.	Silver	**21XL94**
	12¼"	12 ft.	Silver	**21XL95**
End Post				
	18"	10"	Safety Yellow	**21XL98**
	42"	10"	Safety Yellow	**21XL99**
	60"	10"	Safety Yellow	**21XM01**
	72"	10"	Safety Yellow	**21XM02**
Accessories				
Flared End Guard	16½"	28¼"	Silver	**21XM05**
Buffer End Guard	15¾"	26"	Silver	**21XM04**
End Cap	13½"	7"	Yellow	**21XL96**
Spring Post	24"	10¾"	Yellow	**21XL97**

Steel Guard Rails

GA GRAINGER APPROVED

Guard rails include four end and top caps. Modular base unit has a 10" x 10" mounting plate.

	Overall Height	Overall Length	Item No.
Guard Rail Systems			
	19"	4 ft.	**21XL83**
	19"	6 ft.	**21XL84**
	19"	8 ft.	**21XL85**
	19"	10 ft.	**21XL86**
Modular Base Unit			
	8⅜"	10"	**21XL87**
Collar Connectors			
	4"	9"	**21XL89**
	4"	14¼"	**21XL90**


No. 21XL83


No. 21XL90

Description	Overall Height	Item No.
Guard Rails		
3 ft. 7"L	4"	**22DN01**
5 ft. 7"L	4"	**22DN02**
7 ft. 8"L	4"	**22DN03**
9 ft. 7"L	4"	**22DN04**
For Single Guard Rails		
End Post	21"	**22DN07**
Flush End Post	21"	**22DN09**
Inline Post	21"	**22DN11**
Three Way Post	21"	**22DN13**
Corner Post	21"	**22DN05**
For Double Guard Rails		
End Post	45"	**22DN08**
Flush End Post	45"	**22DN10**
Inline Post	45"	**22DN12**
Three Way Post	45"	**22DN14**
Corner Post	45"	**22DN06**


No. 22DN01


No. 22DN06

GA GRAINGER APPROVED

Modular Steel Guard Rails

- 4"-dia. posts include rubber caps and mounting bolts and have 11" x 11" mounting plates.


No. 19N881


No. 33K166

GA GRAINGER APPROVED

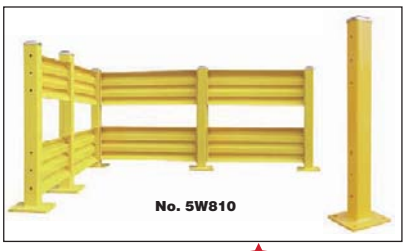
Plastic Barriers

No. 33K166 links with other barriers for longer spans. Two of the wheels are lockable. Nos. 19N881 and 19N882 interconnect with each other.

Description	Overall Height	Overall Length	W	Color	Item No.
Barricades					
Expandable Barricade	37"	132"	Portable Barricade with 4 wheels	Black/Yellow	**33K166**
Barrier Guards					
Plastic	39¾"	77½"	23¼"	Yellow	**19N881**
Plastic	40"	77"	23¼"	Red	**19N882**


No. 5JEU5


No. 5W809


No. 5W810

GA GRAINGER APPROVED

Ribbed Guard Rails

Combine as a modular system that can be installed, removed, or expanded. ⅛"-thick (11-ga.) galvanized steel for outdoor use. Industrial yellow powder-coat finish for indoor use only.

Bolt-On Guard Rails—Easy to assemble and install. Impact-resistant, 2- and 3-ribbed corrugated design have no sharp edges or corners. Galvanized construction resists corrosion.

Lift-Out Rails—Provide a strong barrier with easy accessibility. They have the same construction and profile as bolt-on rails, yet slide into post saddles for simple assembly. Each rail section includes two post saddles.

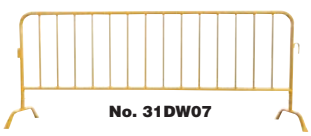
Posts—Two post heights come in both in-line and corner configurations for single-row (high) and double-row (high) installation. Posts are made of round-corner, 4" square steel tube with ¼"-thick walls, and are welded to a 10" square, round-corner ⅝"-thick steel base plate. Include hardware, bolts, anchors, washers, and nuts.

Description	Overall Height	SAFETY YELLOW Item No.	SILVER Item No.
Bolt-On Guard Rails			
2-Ribbed			
1 ft	10 ½ in	**5JEU5** *	—
2 ft	10 ½ in	**5JEU6** *	—
3 ft	10 ½ in	**5JEU7** *	—
4 ft	10 ½ in	**5JEU8** *	—
5 ft	10 ½ in	**5JEU9** *	—
69 in	10 ½ in	**5JEV0** *	—
7 ft	10 ½ in	**5JEV1** *	—
8 ft	10 ½ in	**5JEV2** *	—
9 ft	10 ½ in	**5JEV3** *	—
10 ft	10 ½ in	**5JEV4** *	—
3-Ribbed			
8 in	14 ½ in	**5JEU1** *	—
1 ft 8 in	14 ½ in	**5AE57** *	—
2 ft 8 in	14 ½ in	**5AE58** *	**5JEV7**
3 ft 8 in	14 ½ in	—	**5JEV8**
4 ft	14 ½ in	**5W804** *	—
4 ft 8 in	14 ½ in	—	**5JEV9**
5 ft	14 ½ in	**5AE59** *	—
5 ft 8 in	14 ½ in	**5W805** *	—
6 ft 8 in	14 ½ in	**5AE60** *	**5JEX1**
7 ft 8 in	14 ½ in	**5W806** *	**5JEX2**
8 ft 8 in	14 ½ in	**5JEU2** *	—
9 ft 8 in	14 ½ in	**5W807** *	**5JEX4**
10 in	14 ½ in	—	**5JEV5**
1 ft. 8"	14½"	—	**5JEV6**

** Rail length is 4" shorter than the nominal size.*
† Rail length is 6" shorter than the nominal size.

Description	Overall Height	SAFETY YELLOW Item No.	SILVER Item No.
Lift-Out Rails			
3-Ribbed			
6 in	14 ½ in	**5JEU3** †	—
1 ft 6 in	14 ½ in	**5AE30** †	—
2 ft 6 in	14 ½ in	**5AE31** †	—
3 ft 6 in	14 ½ in	**4WZ74** †	—
4 ft 6 in	14 ½ in	**5AE32** †	—
5 ft 6 in	14 ½ in	**4WZ75** †	—
6 ft 6 in	14 ½ in	**5AE56** †	—
7 ft 6 in	14 ½ in	**4WZ76** †	—
8 ft 6 in	14 ½ in	**5JEU4** †	—
9 ft 6 in	14 ½ in	**4WZ77** †	—
Posts			
2-Ribbed			
Single High Universal Center	12⅝"	**5JEX9**	—
Triple High Universal Center	42½"	**5JEY0**	—
3-Ribbed			
Single High Corner	18½"	**5W808**	**5JEX5**
Single High Center	18½"	**5W809**	**5JEX6**
Double High Corner	42⅝"	**5W810**	**5JEX7**
Double High Center	42⅝"	**5W811**	**5JEX8**
Lift-Out Rail Pocket			
For 2-Ribbed Posts	10 ¼ in	**5JEY1**	—


No. 12G309


No. 31DW07

Crowd Control Interlocking Barriers

GA GRAINGER APPROVED

All-welded steel construction with gray or yellow powder-coat finish. Multiple units can be attached together with welded-on rod hook and sleeves. Upright bars are vertically spaced at 5¼" intervals.

Pipe Dia.	Overall Length	Overall Height	Includes	Color	Item No.
Frame 1½", Vertical Bars ½"	101''	42¼''	Linking Hooks and Eyes	Silver	**12G309**
	125''	42¼''	Linking Hooks and Eyes	Silver	**12G310**
Frame 1¼", Vertical Bars ⅝"	102"	40½"	(2) Curved Removable Feet	Yellow	**31DW07**
	102"	40½"	(2) Flat Removable Feet	Yellow	**31DW09**
	102"	40½"	(2) Wheels Removable Feet	Yellow	**31DW08**
Frame 1⅝", Verticals ¾"	102"	40½"	(2) Curved Removable Feet	Yellow	**31DW06**





GA GRAINGER APPROVED

Machine Guards and Safety Bollards

All-welded construction. Mounting plate is 8" x 8" and predrilled with four ⅞"-dia. x 1¼" slotted holes. Steel has yellow powder-coat finish. Order Installation Kit No. 1F138 or 1F139 separately. Nos. 1GUD7 and 1GUD8 have 10" x 10" mounting plate and come with removable caps that can be concrete filled.

Overall Height	Overall Length	Pipe Dia.	Item No.	
Machine Guards - Low Profile				
9"	3 ft.	4½"	1GUD9	
9"	4 ft.	4½"	3KR78	
16"	3 ft.	4½"	1GUE1	
16"	4 ft.	4½"	1GUE2	
Machine Guards - High Profile				
24"	3 ft.	4½"	1GUE3	
24"	4 ft.	4½"	1GUE4	
36"	3 ft.	4½"	1GUE5	
36"	3 ft.	4½"	2WJJ3	*
36"	4 ft.	4½"	1GUE6	
36"	4 ft.	4½"	2WJJ4	*
42"	4 ft.	4½"	3KR70	
42"	4 ft.	4½"	2WJJ5	*
Corner Guards				
24"	2 ft.	4½"	2WJH8	
24"	2 ft. 6"	4½"	2WJH9	
36"	2 ft.	4½"	2WJJ1	
36"	2 ft. 6"	4½"	2WJJ2	
Bollards				
24"	—	4½"	1GUD5	
36"	—	4½"	3KR45	
36"	—	5½"	1GUD7	
42"	—	4½"	1GUD6	
42"	—	5½"	1GUD8	

** Includes Mid-Rail.*





GA GRAINGER APPROVED

Safety Handrail System

- Yellow powder-coat finish

Round steel pipe system is 1⅝"D x 42"H, with 21" midrail. Installs and removes easily. Square system has ⅜" slotted holes on 4" x 4" mounting plate. Use connector pieces to make 90° turns or length adjustments.

Description	Overall Length	Overall Height	Item No.
Round			
Handrail Section - Steel Pipe Construction	48"	42"	2HER9
	72"	42"	2HET1
	96"	42"	2HET2
Handrail Section - Aluminum Pipe Construction	24"	42"	5NPN2
	36"	42"	5NPN3
	48"	42"	5NPN4
	60"	42"	5NPN5
	72"	42"	5NPN6
	84"	42"	5NPN7
	96"	42"	5NPN8
Single Socket Mounting Base	5"	4"	2HER7
Double Socket Mounting Base	7½"	4"	2HER8
Mounting Kit with Pkg. of 4, ½" O.D. x 3" L Concrete Lag Bolts	3"	½"	2HET3
Square			
Handrail Section	48"	42⅛"	2HEK7
	96"	42⅛"	2HEK8
Handrail Section w/ Toe Board	48"	42⅛"	2HEK9
	96"	42⅛"	2HEN1
Connecting Rail	48"	—	2HEN2
	96"	—	2HEN3
Corner Connector	8⅝"	—	2HEN4



Double
No. 54XU47

GA GRAINGER APPROVED

Steel Folding Dock Gates

¾" x ⅜" 15-ga. U-channels riveted back-to-back construction. Equipped with self-securing center drop-in pin. 12-ga. steel vertical gate rails are 1½" x 1½". Universal mounting on face or in casing. Powder-coated finish. Include brackets, bearing washers, casters, and lock lugs. Padlocks not included.

Opening Width	Folded Height	Folded Width	In Use Height	Item No.
Single				
3 to 4 ft.	7 ft.	11"	6 ft.	54XU44
5 to 6 ft.	7 ft.	11"	6 ft.	54XU43
6 to 7 ft.	7 ft.	11"	6 ft.	54XU42
	7 ft.	11"	6½ ft.	54XU41
	7 ft.	11"	7 ft.	54XU40
	7 ft.	11"	7½ ft.	54XU39
	7 ft.	11"	8 ft.	54XU38
7 to 8 ft.	6½ ft.	10⅝"	6 ft.	35LF13
	7 ft.	11"	6 ft.	54XU37
	7 ft.	11"	6½ ft.	54XU36
	7 ft.	11"	7 ft.	54XU35
	8 ft.	11"	7½ ft.	54XU34
	8 ft.	11"	8 ft.	54XU33
8 to 9 ft.	7 ft.	11"	7 ft.	54XU31
	7 ft.	15"	6½ ft.	54XU32
8 to 10 ft.	7 ft.	15"	6½ ft.	54XU46
	7 ft.	15"	7½ ft.	54XU45
8 to 9 ft.	8 ft.	11"	7½ ft.	35LF20
	8 ft.	15"	7½ ft.	54XU30
Double				
6 to 8 ft.	7 ft.	11"	6 ft.	54XU47
8 to 10 ft.	6 ft.	11"	6 ft.	54XU57
	7 ft.	11"	7 ft.	54XU56
10 to 12 ft.	7 ft.	11"	6 ft.	54XU55
12 to 14 ft.	7 ft.	11"	7 ft.	54XU54
14 to 16 ft.	7 ft.	11"	6 ft.	54XU53
16 to 18 ft.	7 ft.	11"	7 ft.	54XU51
	7 ft.	15"	6½ ft.	54XU52
	7 ft.	15"	7½ ft.	54XU50
	7 ft.	22½"	6½ ft.	35LF23
	7½ ft.	22½"	7 ft.	35LF24
18 to 20 ft.	7 ft.	15"	6½ ft.	54XU49
	7 ft.	15"	7½ ft.	54XU48
Portable Single				
6 to 7 ft.	6 ft.	11"	6 ft.	54XU28
Portable Double				
1 to 12 ft.	6 ft.	27"	6 ft.	54XU29











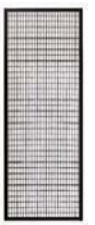
GA GRAINGER APPROVED

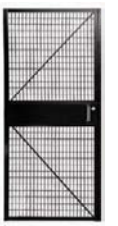
Machine Guard System

Up to 12" sweep. Panel system is held in place with pins, brackets, and safety nuts. Can be reconfigured. All-steel, welded-wire post. Lockable hinged doors. Includes safety socket wrench. Meets ANSI and OSHA standards.

Description	W	H	Item No.
Wire Partition Panels			
1 Panel and 2 Safety Nuts	2 ft.	5 ft.	19N873
	2 ft.	7 ft.	19N868
	3 ft.	5 ft.	19N872
	3 ft.	7 ft.	19N867
	4 ft.	5 ft.	19N871
	4 ft.	7 ft.	19N866
	5 ft.	5 ft.	19N870
	5 ft.	7 ft.	19N865
	8 ft.	5 ft.	19N869

Description	W	H	Item No.
Posts			
Machine Guard	2"	6 ft.	19N876
Line Post	2"	8 ft.	19N874
Offset Wire Partition Post	2"	8 ft.	19N875
Wire Partition Corner Post	2"	6 ft.	19N877
Doors			
Machine Guard	4 ft.	7 ft.	19N878
Hinged Door	3 ft.	7 ft.	19N879
Welded Wire Door	4 ft.	5 ft.	19N880





Saf-T-Fence® Machine Perimeter Guarding

Folding Guard® Corporation

- Economical alternative to permanent walls
- Combines security, strength, and flexibility

An all-steel, modular system of panels, posts, and hinged doors protect machinery, employees, and visitors. Easy to assemble with interchangeable panels and posts. 10-ga. welded wire mesh with 1¼" x 2½" grid openings welded to 1½" x 1½" x 14-ga. steel angle frames.

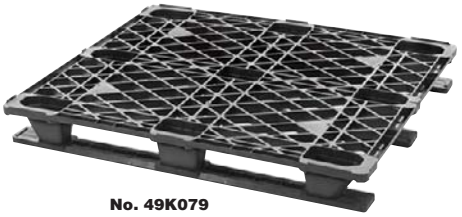
Description	Overall Height	Overall Width	Item No.
Panels			
Includes (1) Panel and Hardware Kit	4 ft. 10"	10"	19H236
	4 ft. 10"	1 ft. 4"	19H238
	4 ft. 10"	1 ft. 7"	19H240
	4 ft. 10"	2 ft. 3"	19H243
	4 ft. 10"	2 ft. 10"	19H221
	4 ft. 10"	3 ft. 10"	19H222
	4 ft. 10"	4 ft. 10"	19H223
	4 ft. 10"	5 ft. 10"	19H245
	4 ft. 10"	7 ft. 10"	19H224
	5 ft.	1 ft. 10"	19H220
	7 ft. 10"	10"	19H237
	81"	16"	19H239
	7 ft. 10"	1 ft. 7"	19H241
	7 ft. 10"	1 ft. 10"	19H225
	7 ft. 10"	2 ft. 3"	19H244
	7 ft. 10"	2 ft. 10"	19H226
	82"	3 ft. 10"	19H227
	6 ft. 10"	4 ft. 10"	19H228
Posts			
6"D x 2"W Base	5 ft. 3"	3"	19H232
6"D x 6"W Base	5 ft. 3"	3"	19H233
6"D x 2"W Base	7 ft.	2"	19H234
6"D x 6"W Base	7 ft.	2"	19H235

Description	Overall Height	Overall Width	Item No.
Hinged Doors			
Includes (1) Door and Mounting Hardware	5 ft.	3 ft.	19H246
	5 ft.	4 ft.	19H248
Includes (1) Door with Cylinder Lock and Mounting Hardware	5 ft.	4 ft.	19H229
Includes (1) Door with Header Bar and Mounting Hardware	7 ft.	3 ft.	19H247
	7 ft.	4 ft.	19H249
Includes (1) Door with Cylinder Lock and Header Bar and Mounting Hardware	7 ft.	3 ft.	19H230
	7 ft.	4 ft.	19H231


No. 4RCN2


No. 45VY63


No. 3AZG6


No. 49K079


No. 5WRP0

Pallet Entry	Dynamic Load Capacity	Static Load Capacity	L	W	H	Color	Item No.	
Extruded Aluminum Pallets								
Stackable								
2-Way	1500 lb.	6000 lb.	48"	42¼"	6"	Silver	**1MCU1**	
		6000 lb.	48"	48¼"	6"	Silver	**1MCU2**	
Plastic Pallets								
Modular								
4-Way	—	500 lb.	24"	24"	3⅝"	Brown	**4RCN2**	
		1000 lb.	70"	24"	3⅝"	Brown	**4RCN3**	
Nestable								
4-Way	1500 lb.	3500 lb.	48"	40"	5⅛"	Black	**49K078**	
	4000 lb.	30,000 lb.	48"	48"	5⅞"	Black	**3VAU1**	
	2750 lb.	15,000 lb.	48"	40"	5¾"	Black	**45VY63**	
	1200 lb.	7000 lb.	48"	40"	6"	Black	**2PE64**	
Rackable								
4-Way	5000 lb.	30,000 lb.	48"	40"	5⅝"	Black	**20HK76**	
		30,000 lb.	48"	40"	6¼"	Black	**20HK77**	
		30,000 lb.	48"	40"	6¼"	Black	**418C83**	
		30,000 lb.	48"	40"	6¼"	Blue	**418C84**	
		30,000 lb.	48"	40"	6¾"	Black	**418C85**	
		30,000 lb.	48"	40"	6¾"	Blue	**418C86**	
Partial 4-Way	6000 lb.	30,000 lb.	48"	40"	6"	Black	**3VAT7**	
		30,000 lb.	48"	40"	6"	Black	**3AZG6**	
Stackable								
2-Way	500 lb.	1000 lb.	24"	24"	4"	Gray/Black	**24PK34**	
	1500 lb.	1500 lb.	48"	40"	9"	Gray/Black	**24PK33**	*
		3000 lb.	36"	32"	4½"	Gray/Black	**33W748**	
		3000 lb.	36"	36"	5"	Gray/Black	**33W749**	
		3000 lb.	60"	42"	4½"	Gray/Black	**33W752**	
	3000 lb.	6000 lb.	96"	48"	5"	Gray/Black	**33W753**	
4-Way	1500 lb.	3000 lb.	48"	40"	4½"	Gray/Black	**33W750**	
	2000 lb.	4000 lb.	48"	48"	5"	Gray/Black	**33W751**	
	2200 lb.	6600 lb.	47¼"	47¼"	6"	Gray	**1MCT3**	
	2300 lb.	6500 lb.	48"	40"	5⅝"	Black	**49K079**	
	3000 lb.	6000 lb.	96"	48"	5"	Gray/Black	**24PK32**	
	4000 lb.	30,000 lb.	48"	40"	5⅛"	Black	**20HK79**	
		30,000 lb.	48¾"	45¾"	7½"	Black	**20HK80**	
		30,000 lb.	48⅞"	45⅞"	6"	Black	**20HK81**	
		30,000 lb.	48"	40"	5⅞"	Black	**48KR13**	
		30,000 lb.	48⅞"	48¾"	5½"	Black	**3VAT5**	
Presswood Pallets								
Nestable								
4-Way	2000 lb.	2000 lb.	40¼"	48¼"	5⅝"	Brown	**5WRP0**	
	2500 lb.	8800 lb.	43"	43"	5½"	Black	**19UA99**	
	4000 lb.	20,000 lb.	48"	48"	6¼"	Gray	**19UC19**	
Stackable								
4-Way	1000 lb.	8000 lb.	24"	24"	5½"	Black	**38TA10**	
	2000 lb.	15,000 lb.	48"	24"	5½"	Black	**38TA11**	
	3000 lb.	7500 lb.	48"	40"	5⅞"	Black	**19UA98**	

Includes 4 casters

★GA GRAINGER APPROVED

Pallets

Extruded Aluminum Pallets— Feature three strings across the bottom for increased strength.

Plastic Pallets—Provide two-way entry by pallet truck and four-way entry by fork truck. Maintenance-free and moisture-resistant, will not rot or splinter.

Presswood Pallets—Nestable design allows stacking. Does not contain any nails or staples. Manufactured from recycled wood materials.

Stackable—Provide high load capacities for handling and shipping heavy products. Stackable for efficient storage.

Modular—Allows pallets to be configured to any length or width.

Nestable—Lightweight and durable for easy handling. Nestable when empty to reduce space and freight cost.

Rackable—Allow products to be stored in a variety of supported or edge rack systems.



Adaptable Pallet

FAST LOCK PALLET

Save floor space by creating custom pallets from 12" to 8-ft. long using interlocking units. EZ Band notch on end of each unit provides a way to cross-band product to the assembled pallet at every 12". Lightweight pallets are ideal for closed loop or returnable system, in-house movement, and shipping of varying-sized items. Units allow for easy storage of supplies that need to be kept off the ground.

Pallet Entry	Dynamic Load Capacity	Static Load Capacity	Rackable Cap.	L	W	H	Item No.
4-Way	625 lb.	625 lb.	Not Rackable	12"	40"	6"	**38G104**

★GA GRAINGER APPROVED

Aluminum Tilting Pallet Dollies

Steel, replaceable hexagonal axles prevent axle rotation. Dollies are compatible with all pallet systems. 4½" overall height.


6 Roller
No. 48J103

Platform Width	Platform Length	6 ROLLER 4000-lb. Load Cap. Item No.	8 ROLLER 6000-lb. Load Cap. Item No.	10 ROLLER 8000-lb. Load Cap. Item No.
36"	36"	**48J103**	**48J110**	**48J114**
36"	48"	**48J105**	—	—
42"	42"	**48J107**	—	—
42"	48"	**48J108**	**48J113**	**48J118**
48"	48"	**48J109**	—	**48J119**



No. 49EN65


No. 6KDZ2


No. 42X641


No. 49EN46


No. 2YA65

GA GRAINGER APPROVED

Plastic Shipping and Storage Pails

Commercial-grade containers for all industries are designed for food, water, and chemical applications. No. 49EN65 features Grainger logo printed on the side. FDA 21 CFR 177.1520 except as noted.

Cap.	Dia.	H	PAIL W/ METAL HANDLE Color	PAIL W/ METAL HANDLE Item No.	PAIL W/ PLASTIC HANDLE Color	PAIL W/ PLASTIC HANDLE Item No.	PAIL W/NO HANDLE Color	PAIL W/NO HANDLE Item No.
Square Pails (Lids Included)								
4.0 gal.	9½"	13"	White	**49EN39**	—	—	—	—
Round Pails (With Lids)								
3.5 gal.	11¼"	12¼"	—	—	White	**49EN28**	—	—
5.0 gal.	11¼"	16"	—	—	White	**49EN59**	—	—
6.5 gal.	11¼"	19½"	—	—	White	**49EN30**	—	—
Round Pails (Lids Sold Separately)								
1.0 gal.	8"	7¼"	—	—	White	**49EN46**	—	—
2.0 gal.	9½"	9⁷⁄₁₆"	White	**49EN50**	—	—	—	—
2.0 gal.	9½"	9¼"	—	—	White	**49EN51**	—	—
3.5 gal.	11⅞"	10⅞"	White	**49EN25**	White	**49EN26**	—	—
5.0 gal.	11⅞"	14⅞"	Blue	**49EN54**	Blue	**49EN55**	—	—
5.0 gal.	11⅞"	14⅞"	Green	**49EN60**	White	**49EN49**	—	—
5.0 gal.	11⅞"	14⅞"	Red	**49EN64**	Natural	**49EN36**	—	—
5.0 gal.	11⅞"	14⅞"	Red	**49EN65**	—	—	—	—
5.0 gal.	11⅞"	14⅞"	White	**49EN48**	—	—	—	—
5.0 gal.	11⅞"	14⅞"	Yellow	**49EN70**	—	—	—	—
5.0 gal.	11⅞"	14⅞"	Black	**49EN34**	—	—	—	—
5.0 gal.	11⅞"	14⅞"	Natural	**49EN35**	—	—	—	—
5.0 gal.	12"	14½"	—	—	White	**6KDZ2** *	—	—
6.0 gal.	11⅞"	17⅜"	White	**49EN27**	—	—	—	—
10.7 gal.	14½"	20¾"	—	—	—	—	White	**42X641** *
12.2 gal.	15½"	21"	—	—	—	—	White	**6KDZ5** *
Round Pails (Closed Head)								
5.0 gal.	11¹³⁄₃₂"	14¹³⁄₁₆"	—	—	White	**49EN29**	—	—

For Use With	SNAP TYPE LID Color	H	Dia.	Item No.	TEAR TAB W/GASKET LID Color	H	Dia.	Item No.	TEAR TAB W/SPOUT LID Color	H	Dia.	Item No.	PLAIN LID W/SPOUT Color	H	Dia.	Item No.	TAMPER EVIDENT SCREW CAP W/REDUCER Color	H	Dia.	Item No.	SCREW CAP W/REDUCER Color	H	Dia.	Item No.
Lids for Round Pails																								
49EN25, 49EN26, 49EN27, 49EN48, 49EN49	White	9⁄16"	12³⁄₁₆"	**49EN37**	White	1⁹⁄₁₆"	12³⁄₁₆"	**49EN43**	White	1⁹⁄₁₆"	12³⁄₁₆"	**49EN45**	White	1⁹⁄₁₆"	12³⁄₁₆"	**49EN38**	—	—	—	—	—	—	—	—
49EN29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	White	1¹⁄₆₄"	2¾"	**53CJ85**	White	1¹⁄₆₄"	2¾"	**53CJ86**
49EN34	Black	9⁄16"	12³⁄₁₆"	**49EN31**	Black	1³⁄₁₆"	12¼"	**49EN33**	Black	1³⁄₁₆"	12¼"	**49EN32**	—	—	—	—	—	—	—	—	—	—	—	—
49EN35, 49EN36	Natural	9⁄16"	12³⁄₁₆"	**49EN40**	Natural	1³⁄₁₆"	12¼"	**49EN42**	Natural	1³⁄₁₆"	12¼"	**49EN41**	—	—	—	—	—	—	—	—	—	—	—	—
49EN46	White	1¹⁄₁₆"	8¼"	**49EN47**	White	1"	8¼"	**406F13**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
49EN50, 49EN51	—	—	—	—	White	1⅛"	9⅞"	**49EN53**	White	1¹⁄₁₆"	9⅞"	**49EN52**	—	—	—	—	—	—	—	—	—	—	—	—
49EN54, 49EN55	Blue	9⁄16"	12³⁄₁₆"	**49EN56**	Blue	1³⁄₁₆"	12¼"	**49EN58**	Blue	1³⁄₁₆"	12¼"	**49EN57**	—	—	—	—	—	—	—	—	—	—	—	—
49EN60	Green	9⁄16"	12³⁄₁₆"	**49EN61**	Green	1³⁄₁₆"	12¼"	**49EN63**	Green	1³⁄₁₆"	12¼"	**49EN62**	—	—	—	—	—	—	—	—	—	—	—	—
49EN64, 49EN65	Red	9⁄16"	12³⁄₁₆"	**49EN67**	Red	1³⁄₁₆"	12¼"	**49EN69**	Red	1³⁄₁₆"	12¼"	**49EN68**	—	—	—	—	—	—	—	—	—	—	—	—
49EN70	Yellow	9⁄16"	12³⁄₁₆"	**49EN71**	Yellow	1³⁄₁₆"	12¼"	**49EN73**	Yellow	1³⁄₁₆"	12¼"	**49EN72**	—	—	—	—	—	—	—	—	—	—	—	—
42X641	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	White	2.25"	14.54"	**6KDZ6** *
6KDZ5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	White	2.25"	15.47"	**6KDZ7** *
Accessories																								
Plastic Pail Liner	Natural	13½"	11¼"	**49EN66**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Low Density Polyethylene Pail Liner	Natural	—	—	**490Z11**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High Density Polyethylene Pail Liner	Natural	—	—	**490Z12**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drum Bung Wrench	Gold/ Blue	—	—	**2YA65** *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

**Do not meet FDA 21 CFR 177.1520.*


No. 1TMH6


No. 6MRH9

Steel Pails

GA GRAINGER APPROVED

Black steel pails feature a rust inhibitor lining to resist corrosion.

Cap.	Dia.	H	Item No.	STANDARD LIDS Item No.	SPOUT W/TEAR TAB LIDS Item No.	LEVER LOCK LIDS Item No.
Black Pails						
5.0 gal.	11⅞"	13 ⅜"	**1TMH6**	**1TMH8**	**1TMH9**	**6MRJ0**
5.0 gal.	11¾"	13 ⅜"	**1TMH7** *	**1TMJ1** *	**1TMJ2** *	**6MRJ1** *
Pail Accessories						
Pail Lid Closer For Use With 1TMH6, 1TMH8, 1TMH9			**6MRH9**	—	—	—
Pail Liner For Use With Steel Pails			**490Z08**	—	—	—

** Meets UN 1A2/Y1.5/70 Standards.*


Black | Blue | Green | Red | Yellow

Screw-On Lids

GA GRAINGER APPROVED

- 12" dia.

For use with 3½- to 7-gal. plastic pails. Constructed of polyethylene and styrene-butadiene rubber.

▶CHOOSE: Color	Item No.
Black, Blue, Green, Red, White, Yellow	**H0995**

Buckets

GA GRAINGER APPROVED

Galvanized and stainless steel tapered pails are corrosion resistant. Round shape.

Cap.	Dia.	H	Item No.
Steel			
3.3 gal.	12¾"	9 ¹³⁄₁₆"	**3CYK9**
5.0 gal.	14¼"	11"	**3CYL1**
304 Stainless Steel			
3.3 gal.	12¾"	10"	**3CYL2**
5.0 gal.	15⅜"	11"	**3CYL3**





No. 3GFG7

No. 3GFH4

GA GRAINGER APPROVED

Jugs and Carboys

CARBOYS

Translucent resin carboys store larger volumes of liquids or solvents.

JUGS

Store smaller quantities of liquids and powders at the jobsite.Lightweight metal jugs are made of tin-plated steel to protect against breakage. Threaded caps are tin-plated steel with rubber liner.

Style	Cap.	Includes	Material	Item No.
Plastic Carboys				
Square, Low Profile	4 gal	Threaded Cap	PE	**3GFG7**
Rectangular	2.5 gal	Threaded Cap	PE	**21YL13**
Cylindrical	64 oz	Threaded Cap	HDPE	**21YK24**
	1 gal	Threaded Cap	HDPE	**21YK23**
	2 gal	Pour Spout	PE	**3GFH4**
F-Style	64 oz	Threaded Cap	HDPE	**21YK20**
	1 gal	Threaded Cap	HDPE	**21YK19**
Metal Jugs				
Rectangular	64 oz	Threaded Cap	Metal	**3DAA8**

** Wide mouth.*



No. 2ZRF1



No. 2ZRA5

SNYDER INDUSTRIES, INC.

Vertical Liquid Storage Tanks and Stands

- UV-resistant
- High-density linear polyethylene
- Wal thickness: 3/16"
- Max. temp.: 130°F

NSF and FDA Compliant (except tanks with fittings). Horizontal Liquid Storage Tanks and Stands are sold on page 1137.

Tanks—High-density polyethylene tanks are designed for storing, mixing, and transferring compatible liquids in industrial and manufacturing applications. They feature gallon and liter indicators, and 14" to 18" fill openings (35-gal. tanks have 6" openings). Open-top tanks come with lid cover. For bulkhead fittings, see page 2817.

Stands—Can be used with all vertical tanks.

			CLOSED TOP TANKS					OPEN TOP TANKS	
			No Fitting		w/Fitting			No Fitting	
Tank (gal.)	Tank Bottom Dia. (in.)	Dia. (in.)	H (in.)	Item No.	H (in.)	Item No.	Connec. (in.)	H (in.)	Item No.
30	18	22	—	—	—	—	—	31	**2ZRD5**
35	18	22	36	**2ZPZ8**	36	**2ZPZ9**	1	—	—
55	22	26	—	—	—	—	—	37	**2ZRD6**
60	22	26	40	**2ZRA1**	40	**2ZRA2**	1	—	—
90	30	34	41	**2ZRA3**	41	**2ZRA4**	1	36	**2ZRD7**
120	30	34	51	**2ZRA5**	51	**2ZRA6**	1	47	**2ZRD8**
150	30	34	61	**2ZRA7**	61	**2ZRA8**	1	57	**2ZRD9**
200	36	40	57	**2ZRA9**	57	**2ZRC1**	2	53	**2ZRE1**
250	36	40	69	**2ZRC2**	69	**2ZRC3**	2	65	**2ZRE2**
275	42	47	59	**2ZRC4**	59	**2ZRC5**	2	53	**2ZRE3**
330	42	47	68	**2ZRC6**	68	**2ZRC7**	2	63	**2ZRE4**
360	48	53	59	**2ZRC8**	59	**2ZRC9**	2	53	**2ZRE5**
440	48	53	69	**2ZRD1**	69	**2ZRD2**	2	64	**2ZRE6**
500	48	53	77	**2ZRD3**	77	**2ZRD4**	2	72	**2ZRE7**

H (in.)	W (in.)	For Use With	Item No.
Tank Stands			
40	31	90, 120 and 150 Gal. Tanks	**2ZRE8**
41	36	200 and 250 Gal. Tanks	**2ZRE9**
42	48	275 and 330 Gal. Tanks	**2ZRF1**
43	53	360, 440, and 500 Gal. Tanks	**2ZRF2**



No. 21YK53

GA GRAINGER APPROVED

Intermediate Bulk Containers (IBC)

- 6" top fill cap
- 2" butterfly valve with EDPM gasket
- Natural color
- Accessories available on Grainger.com®

Use in applications where it is critical to ship and store materials in the same container. Can be used with either hazardous or nonhazardous liquids. HDPE plastic tank has a UV-blocking additive.

Cap.	Outside Dim. H	D	W	Item No.
275 gal.	45½"	47¼"	39¼"	**21YK53**
330 gal.	53¾"	47¼"	39½"	**21YK54**



No. 2ZRG1

SNYDER INDUSTRIES, INC.

Horizontal Liquid Storage Tanks

- UV resistant
- High-density linear polyethylene
- Wall thickness: ¼"
- Max. temp.: 130°F

All storage tanks are NSF 61 and FDA Compliant (except tanks with fittings).

HORIZONTAL-LEG TANKS

Used in municipal, transportation, agricultural, and construction markets to carry compatible liquids to remote locations.

RECTANGULAR AND SADDLE TANKS

For sprayer pumps, see page 2669.

Rectangular—Taller and narrower than Saddle Tanks, these tanks provide equal storage space and are suited for smaller vehicles.

Saddle—Each has hose rack and brass studs for mounting spray pumps. Small size suits them for use on all-terrain vehicles. For replacement fittings, see pages 2556, 2557.

Tank (gal.)	L (in.)	Dia. (in.)	H (in.)	Fill Opening Dia. (in.)	Connec. (in.)	Item No.	
Horizontal Leg, Closed Top							
30	20	23	26	6	—	**2ZRF5**	
30	20	23	26	6	1 FNPT	**2ZRF6**	*
60	39	23	26	6	—	**2ZRF7**	
60	39	23	26	6	1 FNPT	**2ZRF8**	*
125	49	30	35	10	—	**2ZRF9**	
125	49	30	35	10	1 FNPT	**2ZRG1**	*
230	52	38	43	10	—	**2ZRG2**	
230	52	38	43	10	1 FNPT	**2ZRG3**	*
300	72	38	43	10	—	**2ZRG4**	
300	72	38	43	10	1 FNPT	**2ZRG5**	*
525	75	48	53	10	—	**2ZRG6**	
525	75	48	53	10	2 FNPT	**2ZRG7**	*
Pest Carrier, Closed Top, Rectangular							
30	25	19	22	6	—	**2ZRG8**	
50	38	20	22	6	—	**2ZRG9**	
100	38	30	31	10	—	**2ZRH1**	
150	48	36	29	10	—	**2ZRH2**	
200	49	37	39	10	—	**2ZRH3**	
325	69	38	37	18	—	**2ZRH4**	
Saddle Tank, Closed Top							
15	32	14	14	6	—	**2ZRF3**	
25	36	18	16	6	—	**2ZRF4**	

** Supplied with FNPT Banjo® bulkhead fitting.*



No. 21YK41



No. 5ERJ3

GA GRAINGER APPROVED

Carbon Steel Transport Drums

Lined drums feature a modified phenolic coating that resists corrosion and chemical reactivity. Unlined drums are treated with a mild rust inhibitor.

Open-Head—Removable covers are EPDM-gasketed with either a UN-qualified lever lock or bolt. No tools, torque, or ring gap measurements are required for lever lock ring.

Closed-Head—Drum lids are permanently secured and include 2" and 3/4" steel plugs and flanges with Buna gaskets.

Salvage/Overpack—Use open drums for transporting leaking or damaged containers. Covers are EPDM-gasketed and secured with lever lock ring closures or bolt. Yellow drums with red cover feature "Salvage Drum" logo.

Volume Capacity	Gauge	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Drum Color	Item No.
Open Head							
Bolt Ring Closure							
5 gal.	20	1A2/X60/S	1A2/Y1.8/150	10⅜"	14"	Black w/White Cover	**19K299**
10 gal.	20	1A2/X120/S	1A2/Y1.8/150	19"	14"	Black w/White Cover	**4GY27**
16 gal.	20	1A2/X200/S	1A2/Y1.5/150	27⅛"	14"	Black w/White Cover	**1HBG8**
20 gal.	18	1A2/X220/S	1A2/Y1.5/150	21¾"	18¼"	Black w/White Cover	**1HBG9**
30 gal.	20	1A2/X235/S	1A2/Y1.5/150	29"	18¼"	Black w/White Cover	**5ERH3**
	18	1A2/X235/S	1A2/Y1.5/150	29"	18¼"	Black w/White Cover	**4GY28**
55 gal.	18/20/20	1A2/Y425/S	1A2/Y1.2/100	34½"	22½"	Black w/White Cover	**5ERH2**
	16	1A2/X430/S	1A2/Y1.5/175	34½"	22½"	Black w/White Cover	**1HBH2**
	18	1A2/X435/S	1A2/Y1.5/150	34½"	22½"	Black w/White Cover	**4GY29**
	18/18/18	1A2/X400/S	1A2/Y1.8/200	34½"	22½"	Black	**9KYY6**
	18/20/18	1A2/X400/S	1A2/Y1.8/200	34½"	22½"	Blue	**23Y332**
	18/20/18	1A2/X400/S	1A2/Y1.8/200	34½"	22½"	Gray	**23Y345**
	16/18/18	1A2/X400/S	1A2/Y1.8/200	35"	23½"	Black w/White Cover	**484X61**
	18/19/18	1A2/X400/S	1A2/Y1.8/200	35"	23½"	Black w/White Cover	**484X62**
	18/20/18	—	1A2/Y1.6/200	35"	23½"	Black w/White Cover	**484X63**
Bolt Ring Closure, Lined							
10 gal.	20	1A2/X120/S	1A2/Y1.8/150	19"	14"	Black w/White Cover	**1MKZ5**
30 gal.	18	1A2/X235/S	1A2/Y1.5/150	29"	18¼"	Black w/White Cover	**1MKZ9**
Bolt Ring Closure, Lined with 2 x ¾" Fittings in the Cover							
55 gal.	18	1A2/X435/S	1A2/Y1.5/150	34½"	22½"	Black w/White Cover	**2GTW7**
Bolt Ring Closure with 2 x ¾" Fittings in the Cover							
30 gal.	18	1A2/X235/S	1A2/Y1.5/150	29"	18¼"	Black w/White Cover	**2GTW9**
55 gal.	18	1A2/X435/S	1A2/Y1.5/150	34½"	22½"	Black w/White Cover	**2GTW5**
Lever Lock Ring Closure							
16 gal.	18/20/20	1A2/Y200/S	—	27"	27"	Black w/White Cover	**1MKZ7**
20 gal.	18	1A2/X220/S	—	21½"	18¼"	Black w/White Cover	**1MKZ8**
30 gal.	18	1A2/X235/S	—	29"	18¼"	Black w/White Cover	**1MLA1**
55 gal.	20/18/18	—	—	34¼"	22½"	Black	**21YK41**
	18/20	1A2/Y425/S	—	34½"	22½"	Black w/White Cover	**5ERH4**
	18	1A2/X435/S	—	34½"	22½"	Black w/White Cover	**1MLA2**
Lever Lock Ring Closure, Lined							
55 gal.	18	1A2/X435/S	—	34½"	22½"	Black w/White Cover	**2GTW4**
Closed Head							
Lined							
10 gal.	20	—	1A1/X1.4/250	19¼"	14"	Black w/White Cover	**1MLA4**
16 gal.	20	—	1A1/X1.4/250	27¼"	14"	Black w/White Cover	**19K309**
30 gal.	16/20/16	—	1A1/X1.8/300	29½"	18¼"	Black w/White Cover	**2GTX6**
55 gal.	18/20/18	—	1A1/X1.8/300	34¾"	22½"	Black	**19H067**
	18/20/18	—	1A1/X1.8/300	34¾"	22½"	Gray	**23Y339**
	18/20/18	—	1A1/X1.8/300	34¾"	22½"	Blue	**23Y341**
	16	—	1A1/X1.8/300	35¼"	22½"	Black w/White Cover	**2GTX7**
	18/20/18	—	1A1/X1.8/300	34⅞"	22½"	Black	**9CEJ1**
	18/20/18	—	1A1/X1.6/300	36"	22½"	Black w/White Cover	**476H48**
Unlined							
5 gal.	20	—	1A1/X1.6/250	10⅜"	14"	Black w/White Cover	**19K302**
10 gal.	20	—	1A1/X1.4/250	19¼"	14"	Black w/White Cover	**4GY30**
16 gal.	20	—	1A1/X1.4/250	27"	14"	Black w/White Cover	**1MLA5**
30 gal.	20	—	1A1/Y1.5/300	29½"	18¼"	Black w/White Cover	**4GY31**
	16/20/16	—	1A1/X1.8/300	29½"	18¼"	Black w/White Cover	**2GTX4**
55 gal.	16	—	1A1/X1.8/300	35¼"	22½"	Black w/White Cover	**1MLA8**
	18/20/18	—	1A1/X1.6/300	36"	22½"	Black w/White Cover	**476H50**
	18	—	1A1/X1.8/300	36"	22½"	Black w/White Cover	**476H51**
	20/20/20	—	1A1/Y1.4/200	34¾"	22½"	Black w/White Cover	**476H49**
Salvage Drums							
Bolt Ring Closure							
5 gal.	20/20/20	1A2/X60/S	1A2/Y1.8/150	10½"	14"	Yellow w/Red Cover	**20UK65**
30 gal.	16/18/18	1A2/X235/S	1A2/Y1.5/150	29"	18¼"	Yellow w/Red Cover	**5ERJ3**
55 gal.	16/18/18	1A2/X400/S	1A2/Y1.5/150	34½"	22½"	Yellow w/Red Cover	**2GTY3**
85 gal.	18	1A2/X440/S	1A2T/Y320/S	39½"	26"	Yellow	**2GTY4**
96 gal.	16	1A2/X440/S	—	42¾"	26"	Yellow w/Red Cover	**2GTX8**
110 gal.	16	1A2/Y409/S	—	42¾"	30"	Yellow w/Red Cover	**1MLA9**
Lever Lock Ring Closure							
10 gal.	18/20/20	1A2/X120/S	—	19"	14"	Yellow w/Red Cover	**4GY33**
20 gal.	18	1A2/X220/S	—	21½"	18¼"	Yellow w/Red Cover	**4GY34**
55 gal.	16/18/18	1A2/X400/S	—	34½"	22½"	Yellow w/Red Cover	**4GY35**
85 gal.	18	1A2/X440/S	1A2T/Y320/S	38¾"	26"	Yellow	**4GY36**



No. 2GTY5



No. 4GY37

GA GRAINGER APPROVED

Stainless Steel Transport Drums

Stainless steel drums feature better corrosion resistance and tensile strength than carbon steel drums. Type 304, 2B finish. Open-head drums close easily with a carbon steel bolt ring closure. Closed-head drums feature a 2" x ¾" flanged fitting with a Buna gasket.

Volume Cap.	Gauge	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Item No.
Open Head						
5 gal.	20/20/20	1A2/X60/S	1A2/Y1.5/150	10⅜"	14"	**20UK70**
8 gal.	20	1A2/X96/S	1A2/Y1.8/150	15⅞"	14"	**5ERJ6**
10 gal.	20	1A2/X120/S	1A2/Y1.8/150	19"	14"	**1MLC2**
16 gal.	20	1A2/X200/S	1A2/Y1.5/150	27"	14"	**2GTY7**
20 gal.	16/18/18	1A2/X160/S	1A2/Y1.5/150	21½"	18¼"	**2GTY5**
30 gal.	16/18/18	1A2/X225/S	1A2/Y1.5/150	29"	18¼"	**1HBH3**
55 gal.	16/18/18	1A2/X440/S	1A2/Y1.5/150	35¼"	22½"	**1MLC4**
	16	1A2/X430/S	1A2/Y1.5/200	34½"	22½"	**4GY38**
	18/18/18	—	—	36"	22½"	**20UL06**
85 gal.	16/16/16	1A2/X440/S	—	39"	26"	**20UK71**
Open Head with 2 and ¾" Fittings in the Cover						
55 gal.	16	1A2/X430/S	1A2/Y1.5/200	34½"	22½"	**2GTY9**
Closed Head						
8 gal.	20	—	1A1/X1.4/250	16¾"	14"	**5ERJ7**
10 gal.	20	—	1A1/X1.4/250	19¼"	14"	**1MLC1**
16 gal.	20	—	1A1/X1.2/250	27"	14"	**2GTY8**
20 gal.	18	—	1A1/X1.2/300	21½"	18¼"	**2GTY6**
30 gal.	18	—	1A1/X1.2/300	29½"	18¼"	**1MLC3**
55 gal.	18/18/18	—	1A1/X1.2/300	29½"	18¼"	**20UK83** *
	16	—	1A1/X1.8/550	35¼"	22½"	**19K327**
	18	—	1A1/X1.8/300	35¼"	22½"	**4GY37**
	18/18/18	—	1A1/X1.8/300	35¼"	22½"	**20UK84** *

** Type 316, 2B finish.*



No. 8DRE7



No. 19H066

GA GRAINGER APPROVED

Fiber Transport Drums

For dry or solid materials. Open-head drums with carbon steel covers, lever lock ring closures, and galvanized chime bands.

Volume Cap.	UN Rating Solid	Overall Height	Inside Dia.	Item No.
With Fiber Lid				
5 gal.	1G/Y60/S	8¾"	11⅝"	**8DRE7**
47 gal.	—	31"	—	**23Y340**
55 gal.	—	35½"	21½"	**23Y338**
With Plastic Lid				
55 gal.	—	35½"	21½"	**23Y347**
55 gal.	1G/Y235/S	36"	21½"	**23Y348**
With Steel Lid				
15 gal.	1G/Y106/S	19½"	15½"	**19H071**
30 gal.	1G/Y140/S	27"	18½"	**19H066**
55 gal.	1G/Y260/S	35½"	21½"	**19H072**

GRAINGER APPROVED

UN-Rated Drum Covers


White Cover Gasket


2" x ¾" Tri-Sure Style Fittings


Bolt Ring with Bolt and Nut


Lever Lock Ring

Description	For Use With	Item No.
Steel Covers For 5-, 8-, 10- & 16-Gallon		
20-ga. Cover, Painted White, with Gasket	4GY27, 19K299, 1HBG8, 20UK65	**2GTU5**
20-ga. Cover, Painted White, with 2" x ¾" Tri-Sure Style Fittings	4GY27, 19K299, 1HBG8, 20UK65	**19K319**
18-ga. Cover, Painted White, with 2" x ¾" Tri-Sure Style Fittings	1MKZ7, 5ERJ4, 4GY33, 1MKZ7	**19K320**
18-ga. Cover, Painted White, with Gasket	1MKZ7, 5ERJ4, 4GY33, 8PKX7	**2GTU6**
Steel Covers For 20- & 30-Gallon		
16-ga. Cover, Painted White, with Gasket	8DGK0, 5ERJ3	**2GTV1**
18-ga. Cover, Painted White, with Gasket	1HBG9, 1MKZ8, 4GY28, 1MLA1, 4GY34, 2GTX1, 2GTW9	**2GTV2**
18-ga. Cover, Painted White, with 2" x ¾" Tri-Sure Style Fittings	1HBG9, 1MKZ8, 4GY28, 1MLA1, 4GY34, 2GTX1, 2GTW9	**19K321**
Steel Covers For 55-Gallon		
18-ga. Cover, Painted White, with Gasket	5ERH2, 5ERH4, 5ERH6, 5ERH5, 20UK75, 4GY29, 1MLA2, 2GTW6, 2GTW5, 20UK76	**2GTV6**
18-ga. Cover, Painted White, with 2" x ¾" Tri-Sure Style Fittings,	4GY29, 1MLA2, 2GTW5, 20UK76, 5ERH2, 5ERH4, 5ERH6, 5ERH5, 20UK75, 2GTW6	**19K322**
18-ga. Cover, Painted White, with Epoxy/Phenolic Lining and EPDM Gasket	5ERH7, 5ERH9, 5ERH8, 5ERJ0, 1MLA3, 2GTW7, 2GTW4, 2GTW8	**43Y435**
18-ga. Cover, Painted White, Epoxy/Phenolic Lining, with 2" x ¾" Tri-Sure Style Fittings and Modified Phenolic Lining	5ERH7, 5ERH9, 5ERH8, 5ERJ0, 1MLA3, 2GTW7, 2GTW4, 2GTW8	**19K323**
16-ga. Cover, Painted White, with Gasket	20UK77, 1HBH2, 20UK78, 19K316, 8CPP2, 2GTY3, 4GY35	**2GTV7**
16-ga. Cover, Painted White, with 2" x ¾" Tri-Sure Style Fittings	20UK77, 1HBH2, 20UK78, 19K316, 8CPP2, 2GTY3, 4GY35	**19K324**
16-ga. Cover, Painted White, Epoxy/Phenolic Lining, with 2" x ¾" Tri-Sure Style Fittings and Modified Phenolic Lining	20UK77, 1HBH2, 20UK78, 19K316, 8CPP2, 2GTY3, 4GY35	**19K325**
Stainless Steel Covers For 55-Gallon		
16-ga. Cover, 304 Stainless Steel	4GY38, 2GTY9, 1MLC4	**19K326**
16-ga. Cover, 304 Stainless Steel, with EPDM Gasket	20UL06	**43Y436**
5-, 8-, 10- & 16-Gallon Cover Replacement Parts		
Gasket, EDPM		**2GTU7**
Bolt Ring, Includes Bolt and Nut	19K299, 19K303, 19K304, 4GY27, 1MKZ5, 1HBG8, 20UK65, 2GTX9, 19K315	**2GTU8**
Outside Leverlock Ring		**2GTU9**
20- & 30-Gallon Cover Replacement Parts		
Gasket, EDPM	1HBG9, 1MKZ8, 19K311, 5ERH3, 20UK74, 4GY28, 1MKZ9, 1MLA1, 2GTX3, 2GTX1, 2GTW9, 19K313, 8DGK0, 4GY34, 5ERJ3	**2GTV3**
Bolt Ring, Includes Bolt and Nut	1HBG9, 20UK74, 4GY28, 1MKZ9, 2GTW9, 19K313, 5ERJ3	**2GTV4**
Outside Leverlock Ring	1MKZ8, 19K311, 1MLA1, 2GTX3, 2GTX1, 4GY34, 2GTX1, 1MKZ8	**2GTV5**
55-Gallon Cover Replacement Parts		
Gasket, EDPM	5ERH2, 5ERH7, 5ERH9, 5ERH4, 5ERH8, 5ERJ0, 5ERH6, 5ERH5, 20UK75, 4GY29, 1MLA3, 2GTW7, 1MLA2, 2GTW4, 2GTW8, 2GTW6, 2GTW5, 20UK76, 20UK77, 1HBH2, 19K314, 20UK78, 19K316, 8CPP2, 2GTY3, 4GY35	**2GTV8**
Bolt Ring, Includes Bolt and Nut	5ERH2, 5ERH7, 5ERH9, 5ERH5, 20UK75, 4GY29, 1MLA3, 2GTW7, 2GTW5, 20UK76, 20UK77, 1HBH2, 19K314, 19K316, 2GTY3	**2GTV9**
Outside Leverlock Ring	5ERH4, 5ERH8, 5ERJ0, 5ERH6, 1MLA2, 2GTW4, 2GTW8, 2GTW6, 20UK78, 8CPP2, 4GY35, 1MLA2	**2GTW1**


No. 2GTZ1

No. 2GTZ3

GRAINGER APPROVED

Polyethylene Transport Drums

High-density polyethylene (HDPE) is compatible with a wide range of chemicals. Open-head drums feature lever lock ring closure. Closed-head drums have two top fittings, a 2" NPT, and a 2" buttress fitting, except 15-gal. drums have 2" NPT, and ¾" NPT. Nos. 19H055, 19H056, and 2GTZ3 have double handles.

Volume Cap.	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Drum Color	Item No.	
Open Head							
30 gal.	1H2/Y180/S	—	29¼"	18½"	Blue w/White Cover	**2GTZ1**	
55 gal.	1H2/Y130/S	—	34¼"	23½"	Blue w/White Cover	**2GTZ2**	
	1H2/Y130/S	—	34"	23"	White	**20UK92**	
Open Head with Fittings							
30 gal.	1H2/Y180/S	—	30"	19⅛"	Blue w/White Cover	**1MLC6**	
55 gal.	1H2/Y130/S	—	34"	23"	White	**20UK93**	
	1H2/Y130/S	—	34¾"	23-1/6"	Blue w/White Cover	**4GY40**	*
Closed Head							
	—	1H1/Y1.9/150	23¼"	15½"	Blue	**2GTZ3**	
	—	1H1/Y1.8/100	26¼"	14"	Blue	**1MLC5**	
	—	1H1/Y1.8/100	26¼"	14"	Translucent White	**2GTZ4**	
15 gal.	—	1H1/Y1.9/100	26⅜"	—	Blue	**19H053**	
	—	1H1/Y1.9/100	26⅜"	—	White	**19H054**	
	—	1H1/Y2.0/150	20⅝"	—	Blue	**19H055**	
	—	1H1/Y2.0/150	20⅝"	—	Translucent White	**19H056**	
20 gal.	—	1H1/Y2.0/150	27⅛"	—	Blue	**23Y342**	
	—	1H1/Y2.0/150	27⅛"	—	White	**23Y343**	
	—	1H1/Y1.8/100	29"	19"	Blue	**4GY39**	*
	—	1H1/Y1.9/150	29⅝"	—	Blue	**19H061**	
30 gal.	—	1H1/Y1.9/150	29⅝"	—	Black	**19H062**	
	—	1H1/Y1.9/150	29⅝"	—	Translucent White	**19H063**	
	—	1H1/Y1.9/150	29⅝"	—	Red	**23Y336**	
	—	1H1/Y1.9/150	29⅝"	—	Yellow	**23Y337**	
35 gal.	1H1/Y1.4/100	1H1/Y1.9/150	33⅞"	—	White	**23Y335**	
	—	1H1/Y1.8/100	34¾"	23"	Blue	**4GY41**	*
	—	1H1/Y1.9/150	34⅞"	—	Blue	**19H057**	
	—	1H1/Y1.9/150	34⅞"	—	Black	**19H058**	
55 gal.	—	1H1/Y1.9/150	34⅞"	—	Translucent White	**19H059**	
	—	1H1/Y1.9/150	34⅞"	—	White	**19H060**	
	—	1H1/Y1.9/150	34⅞"	—	Red	**23Y333**	
	—	1H1/Y1.9/150	34⅞"	—	Yellow	**23Y334**	
	—	1H1/Y1.9/150	35"	—	White w/Green Cover	**23Y346**	

**FDA Approved*


No. 21YL66


No. 490Z17

GRAINGER APPROVED

Drum Inserts and Liners

- LDPE construction

INSERTS

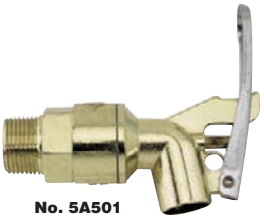
- Vacuum-formed
- Seamless

Inserts are designed to withstand tough applications such as mixing and pumping; won't crack or tear. Contoured lip prevents leakage between insert and drum wall.

DRUM LINERS

Meet FDA requirements.

Cap.	Gauge	L	Color	Pkg. Qty.	Item No.
Inserts					
Pleated					
55 gal.	15 mil	33⅞"	Pink	1	**21YL66**
Accordion Wall					
55 gal.	15 mil	34 ½"	Natural	20	**490Z17**
Straight-Sided					
30 gal.	15 mil	28 ½"	Natural	25	**490Z15**
55 gal.	15 mil	34 ¼"	Natural	20	**490Z13**
55 gal.	24 mil	34 ¼"	Natural	15	**490Z18**
Drum Liners					
Straight					
30 gal.	4 mil	48"	Natural	100	**35KT72**
55 gal.	4 mil	65"	Natural	50	**35KT73**
85 gal.	8 mil	72"	Natural	10	**35KT83**
Round Head					
55 gal.	5 mil	40"	Natural	20	**35KT76**
55 gal.	4 mil	40"	Natural	100	**35KT77**
55 gal.	4 mil	52"	Natural	100	**35KT78**
55 gal.	8 mil	40"	Natural	50	**35KT79**
55 gal.	8 mil	52"	Natural	50	**35KT80**
55 gal.	10 mil	40"	Natural	50	**35KT81**
55 gal.	10 mil	53"	Natural	50	**35KT82**


No. 5A501


No. 5A506


No. 1WXB6

GA GRAINGER APPROVED

Drum Faucets and Drum Safety Vents

FM Approved, except No. 1XPX8; No. 5A501 is FM Approved for viscous liquids only, and No. 5A502 is FM Approved for nonviscous liquids only.

DRUM FAUCETS

Brass Adjustable, Stainless Steel Adjustable, and Brass Rigid—Self-closing. Use with oils up to 30W, noncorrosive flammables, and nonflammables. For use with drum in horizontal position. No. 5A504 has an internal flame arrestor and adjustable feature that allows the nozzle to be positioned after being threaded into drum. No. 5A503 has an external flame arrestor.

Economy Zinc Rigid—Self-closing with padlock holes. Cannot be used with chlorinated solvents. Brass color. No. 5A502 has a flame arrestor.

Brass Gate Valve—Self-closing wide mouth opening. Knife-style, spring-activated PTFE blade has positive shutoff when 4½"W handle is released. Use with viscous noncorrosive liquids heavier than 30W motor oil. Use with drums in horizontal position.

Polypropylene Fiberglass Reinforced—Allows drums with 2" plug to be emptied or filled from a horizontal position. Locking ring connects faucet to drum handle, unscrews plug for tapping or filling.

DRUM SAFETY VENTS

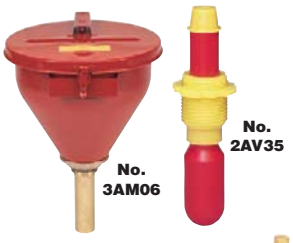
Horizontal—Fusible emergency relief plug melts at 135°F. Brass bung vent and a flame-arresting baffle; max. content flow of 220 cfm at 20 psi.

Vertical—Provides manual vacuum relief. Internal flash arrestor.

Material	Shank Type	Seal Material	(M)NPT Inlet	Item No.	
Drum Faucets					
Brass	Adjustable	PTFE	¾"	**5A504**	
Brass	Rigid	PTFE	¾"	**5A503**	
Brass	Rigid	PTFE	—	**5W685**	*
Die-Cast Zinc Alloy	Rigid	Viton	¾"	**5A501**	*
Die-Cast Zinc Alloy	Rigid	Viton	¾"	**5A502**	
Polypropylene	—	Nitrile	2"	**1XPX8**	

** For use with viscous liquids.*

Type	(M)NPT Inlet	Cracking Pressure	Item No.
Drum Safety Vents			
Horizontal	—	5 psi	**5A506**
Vertical	2"	5 to 8 psi	**1WXB6**


No. 3AM06

No. 2AV35


No. 3KR44


No. 5A507

No. 9TM76

Description	Pkg. Qty.	Item No.
Safety Drum Funnel	1	**3AM06**
Drum Level Gauge	1	**5A507**
Polyethylene Pop-Up Gauge	1	**2AV35**
Drum Lock	1	**3KR44**
Drum Plug Locking Device	2	**9TM76**

GA GRAINGER APPROVED

Drum Cover Accessories

Safety Drum Funnel—Fits into 2" drum bung. Accommodates padlock, not included.

Drum Level Gauge—Special plated fitting threads into ¾" NPT drum bung and has a female ¾" NPT provision to fit most faucets. Not for use with chlorinated solvents, high-concentrated acids, or alkalis.

Polyethylene Pop-Up Gauge—Indicator warns when nearing capacity. Screw into ¾" opening of a vertical drum.

Drum Lock—Solid brass with ½" zinc-plated steel lockarm, predrilled with a hole for a padlock, not included. Fits both 2" and ¾" standard dia. drum threads.

Drum Plug Locking Device—Locking device prevents access to the material contained in your drums. Simply slide the two halves of the locking device around the bung flange, slip the joining bar through the halves, and insert a padlock (sold separately) through the end hole of the bar. Sold in a set of two 2" plugs; fits plastic drums with raised bung flanges.


No. 3JJN3


No. 2VAE1

Drum Covers

GA GRAINGER APPROVED

Polyethylene Drum Covers—Lightweight, economical covers have UV screener.

Steel Safety Drum Covers—16-ga. steel drums convert open-top drums into fire-safe receptacles.

Description	Outside Dia.	Pkg. Qty.	Item No.
Polyethylene			
Clear, For 5 gal. Pails	9¼" to 13¼"	100	**8VU25**
Clear, For 30 gal. Drums	14¼" to 18¼"	100	**3JJN5**
Clear, For 55 gal. Drums	19¼" to 23¼"	100	**3JJN3**
Clear, For 55 gal. Drums	22¾"	1	**490Z10**
Clear, For 55 gal. Drums	25⅜"	1	**490Z09**
Steel			
Red, For 30 gal. Drums	18⅜"	1	**2VAE1**
Red, For 55 gal. Drums	22½ to 22¾"	1	**9G926**
Red, For 55 gal. Drums	22¾"	1	**6AX40**


No. 2GWZ7


No. 38UJ21


No. 3AY72


No. 5WAH1


No. 2GWZ4


No. 1DHY3

GA GRAINGER APPROVED

Drum Deheaders and Plug Wrenches

Drum Deheaders—Open 5-gal. pails and 30- and 55-gal. drums. No. 2GWZ7 is for use with a ½" manual ratchet drive, not included. For ratchet drivers, see Grainger.com®.

Drum Bung Sockets—Fit ¾" and 2" bungs. For use with standard hand socket wrenches, except No. 1DJL9 is for use with ½" pneumatic ratchet drivers, not included.

Description	Construc.	Item No.
Drum Deheaders		
With Ergonomic Handle	Forged Steel	**3AY68**
Express Open Drum Deheader For Use With To Open 30 and 55 Gallon Steel Drums and 5 Gallon Pails	Forged Head	**2GWZ7**
Comfort Hand Grip, For Use with 30- and 55-gal. Steel Drums	Steel	**38UJ21**
Non-sparking Drum Deheader	Aluminum Bronze	**1RD22**
Replacement Blades		
For Use With Non-sparking Drum Deheader No. 1RD22	Hardened Non-Ferrous Alloy	**1RD23**
For Use With Drum Deheader No. 3AY68	Forged Steel	**1VKC7**
Drum Wrenches		
Drum Wrench	Steel	**45EC97**
Drum Plug Wrench	Cast Iron	**1VKC8**
Universal Drum Plug Wrench	Brass Alloy	**3AY71**
Deluxe Drum Plug Wrench	Brass Alloy	**3AY72**
Drum Bung Wrench	Steel	**5WAH1**
	Stainless Steel	**45ED03**
Drum Bung Wrench, Straight Handle	Non Sparking Bronze Alloy	**2GWZ6**
	Solid Nylon-66	**5WAH0**
Drum Bung Wrench, Curved Handle	Zinc Plated Cast Steel	**2GWZ3**
	Non Sparking Bronze Alloy	**2GWZ4**
Drum Plug Torque Wrench, Straight Handle	Cast Iron	**21YL87**
Drum Bung Sockets		
Standard Sockets ⅜" Drive	Bronze	**1DHY3**
	Zinc Plated Cast Steel	**1DHY5**
Standard Sockets ½" Drive	Bronze	**1DHY4**
	Zinc Plated Cast Steel	**1DHY6**
Standard Sockets ¾" Drive	Zinc Plated Cast Steel	**1DHY7**
Impact Socket ½" Drive	Chrome Vanadium Steel	**1DJL9**

GA GRAINGER APPROVED

Drum Heaters

- Dielectric tested at 1250V for 115V drum heaters and at 1500V for 230V

Mount below drum contents for freeze protection, viscosity control, melting, or keeping elevated temperatures. Nickel alloy heating element and electrically grounded, insulated screen. 115V units have 6-ft. cord set with 3-prong molded plug; 230V have a pigtail end. UL Recognized and CSA Certified.

Note: Actual temperature of the contents is affected by thermostat setting, heater wattage, type of drum contents, ambient temperature, and other system characteristics. Multiple heaters may be required for some applications.



For Horizontal Metal



For Vertical Metal



For Poly

FOR VERTICAL METAL

Wraparound heaters connect with a spring-and-clip device. Control range: 50° to 400°F. Temperature control stem rotates 310°. All have adjustable thermostats, except for No. 3CDA1.

FOR HORIZONTAL METAL

Reusable heater can be used while drum is in cradle. Control range: 50° to 400°F.

FOR POLY

Control range: 50° to 160°F, plus over temperature control.

Drum Cap.	Drum Dia.*	Strap Width	Voltage	Watts	Amps AC	Item No.
For Vertical Metal Drums						
5 gal.	11¼"	3"	115	300	2.6	**3CDA7**
5 gal.	11¼"	4"	115	450	3.9	**3CDA8**
15 gal.	14"	3"	115	500	4.3	**3CDA6**
15 gal.	14"	4"	115	750	6.5	**3CDA5**
30 gal.	18¼"	3"	115	750	6.5	**3CDA4**
30 gal.	18¼"	4"	115	1100	9.6	**3CDA3**
55 gal.	22½"	3"	115	1000	8.7	**3CCZ9**
55 gal.	22½"	3"	115	1000	8.7	**3CDA1**
55 gal.	22½"	3"	230	1000	4.3	**3CDA2**
55 gal.	22½"	4"	115	1500	13	**3CCZ7**
55 gal.	22½"	4"	230	1500	6.5	**3CCZ8**
For Horizontal Metal Drums						
55 gal.	22½"	8"	115	500	4.3	**3CDA9**
For Poly Drums						
5 gal.	11¼"	6"	115	300	2.60	**3CDC1**
55 gal.	22½"	6"	115	750	6.5	**3CDC2**

** Plus or minus 1".*

GA GRAINGER APPROVED

Drum Blankets and Pipe Heaters

DRUM BLANKET HEATERS

Heaters fit 55-gal. drums. For No. 3JJJ4, control range is 50° to 160°F. For Nos. 3JJJ2 and 3JJJ6, control range is 50° to 450°F. No. 3CDC4 has aluminized cloth exterior with 1" fiberglass insulation. Easy to install with hook-and-loop fasteners. Control range is 50° to 400°F.



Drum Blanket Heater



Silicone Rubber Pipe Heater

SILICONE RUBBER PIPE HEATERS

- Control range: 40° to 60°F

Reusable heaters thaw and keep metal pipes from freezing. Fit dia. from ½" to 1½". Preset thermostat. Install with hook-and-loop fastener straps. Not for plastic pipes.



Silicone Rubber Flexible Heater

SILICONE RUBBER FLEXIBLE HEATERS

- Operate to 400°F
- Resistance tolerance: ±10%

Install with RTV (Dow 732 or equal) adhesive. Include 12" PTFE insulated leads. UL Recognized and CSA Certified.



Polyimide Flexible Heater

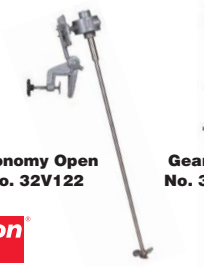
POLYIMIDE FLEXIBLE HEATER

- Operating temp.: -70° to 390°F
- Resistance tolerance: ±10%
- Max. thickness: 0.10", except in lead exit area

Low-profile, low-watt density Kapton® heater. PTFE insulated leads. Easy to install with RTV (Dow 732 or equal) adhesive.

Watt Density	Voltage	Watts	Amps AC	Drum Dia.	H	Item No.
Drum Blanket Heaters						
1.00W/sq. In	120	770	6.4	24"	33"	**3JJJ4**
2.00W/sq. in.	120	1600	13.3	22"	36 19/32"	**3JJJ2**
2.00W/sq. in.	240	1600	6.67	24"	33"	**3JJJ6**
5.70W/sq. in.	115	1000	8.7	22½"	32½"	**3CDC4**

Watt Density	Voltage	Watts	Amps AC	L	W	Item No.
Silicone Rubber Pipe Heaters						
2.50W/sq. In.	115	150	1.3	24"	1"	**3CDC7**
2.50W/sq. In.	115	230	2	48"	1"	**3CDC8**
2.50W/sq. In.	115	345	3	72"	1"	**3CDC9**
Silicone Rubber Flexible Heaters						
5.00W/sq. in.	115	60	0.5	6"	2"	**3CDD2**
5.00W/sq. in.	115	100	0.9	10"	2"	**3CDD4**
5.00W/sq. in.	115	720	4.3	12"	12"	**3CDD3**
5.00W/sq. in.	115	1440	12.5	24"	12"	**3CDD1**
Polyimide Flexible Heater						
2.50W/sq. In.	115	160	1.4	8"	8"	**3CDD7**



Economy Open No. 32V122



Gear Drive No. 32V139



Direct Drive No. 32V127

Dayton

Drum and Tank Mixers

- Shipped unassembled
- 115 to 230V, 1-Phase

Feature TEFC electric motor or air motor and include 316 stainless steel shaft with propeller.

Economy Open Drum Mixers— Mount directly to tanks or on rails with 1⅞" opening adjustable clamp. Adjustable bracket. 4"-dia., 3-blade fixed-propeller. Nos. 32V133 and 32V134 include junction box.

Bung-Entering Drum Mixers—For use with 55-gal. or smaller closed-head drums. Enter 2" bung opening with 2-blade folding propeller.

Bung-Entering Intermediate Bulk Container (IBC) Mixers—For use on 275- to 550-gal. drums. 9" propeller folds to pass through 2" coupling. No. 32V148 provides a metallic 2" coupling by mounting directly to plastic cap of poly IBCs.

Gear-Drive Tank Mixers—Cast-aluminum, handle up to 5000 gal. with viscosities up to 15,000 cps. Clutch-free with 3-blade square-pitch marine propellers. Index marks for angle and radial adjustment.

Direct-Drive Tank Mixers—Clamp to tank rim. Adjustable motor speed, utilizes standard shafting to extend propeller to 48".

- Air-driven

Laboratory Mixer—Clamp can be used to make angular and radial adjustments. Shaft for use with tanks up to 50 gal.

Laboratory Mixer With Stand—Features four shafts. Adjustable height with hand knob. Includes cast-aluminum base with 36" mast. Base bolts to work surface.

- Air-driven

Handheld Air Mixer—Air control valve allows low-speed mixing and easy speed adjustment. Multiblade cage impeller protects blades. Cast-iron aluminum pistol grip. For 5- and 10-gal. open containers.

- Air-driven

Paint Supply Mixers—No. 32V131 is for use with 5-gal. HVLP spray packages. No. 32V132 is for use with any 55-gal. drum cover. Max. torque of No. 32V131 is 6.5 in.-lb. (at 650 rpm); max. torque of No. 32V132 is 26.1 in-lb. (at 350 rpm). Removable shafts for use with lids and containers.

- Air-driven

HP	Motor	Shaft Dia. (in.)	Shaft Length (in.)	Max. RPM	Item No.
Economy Open Drum Mixers					
¼	115 to 230V 1-Phase	½	32	1750	**32V133**
½	115 to 230V 1-Phase	⅝	32	1750	**32V134**
¼ to ½	Pneumatic	⅝	35	2000	**32V122**
Bung Entering Drum Mixers					
½	115 to 230V 1-Phase	⅝	32	1725	**32V135**
¼ to ½	Pneumatic	⅝	32	2000	**32V124**
½	115 to 230V 1-Phase	⅝	29	1725	**32V136**
½	Pneumatic	⅝	32	2000	**32V123**
Bung Entering Intermediate Bulk Container (IBC) Mixers					
½	115 to 230V 1-Phase	1	40	450	**32V137**
¾	115 to 230V 1-Phase	1	40	450	**32V138**
½	Pneumatic	¾	40	430	**32V125**
Gear Drive Tank Mixers					
⅓	115 to 230V 1-Phase	¾	48	350	**32V139**
½	115 to 230V 1-Phase	¾	48	350	**32V140**
¾	115 to 230V 1-Phase	¾	60	350	**32V141**
Direct Drive Tank Mixers					
1	Pneumatic	⅝	36	2000	**32V127**
2	Pneumatic	¾	36	2000	**32V128**
Laboratory Mixer					
1/20	115V 1-Phase	5/16	30	1700	**32V142**
Laboratory Mixer w/Stand					
½	Pneumatic	½	12,16,20,24	2000	**32V129**
Handheld Air Mixer					
½	Pneumatic	½	20½	1000	**32V130**
Paint Supply Mixers					
⅓	Pneumatic	½	12	2000	**32V131**
½	Pneumatic	½	32	2000	**32V132**

Description	For Use With	Item No.
Replacement Parts		
Propeller, 4" Dia. x ½"	32V131, 32V133	**32V143**
Propeller, 4" Dia. x ⅝"	32V122, 32V134	**32V144**
Propeller, Folding	32V123, 32V124, 32V135, 32V136	**32V145**
Clamp Assembly	32V122, 32V133, 32V134	**32V146**
Shaft, ⅝ x 32"	32V123, 32V124, 32V134, 32V136	**32V147**
Bulkhead Fitting, 2"	32V137, 32V138	**32V148**

Polypropylene Dollies


No. 38RY67


No. 38RY68


No. 48J133

Steel Dollies


No. 48J134


No. 48J135


No. 48J138


No. 6FVJ2


No. 6FVJ4


No. 1XUZ8 and 1XUZ9


No. 3JJH2


No. 3KMZ9


No. 3JJG9


No. 6FVJ3


No. 6FVJ5


No. 9TV13


No. 6FVJ1


No. 1XWA1 and 1XWA2


No. 6FVJ6


No. 48J136


No. 48J137

304 Stainless Steel Dollies


No. 6FVH5


No. 6FVH6


No. 6FVH7


No. 6FVH8


No. 6FVH9


No. 6FVJ0

Drum Dollies

GA GRAINGER APPROVED

Load Capacity	For Container Capacity	Outside Dia.	Inside Dia.	H	Caster Dia.	No. of Casters	Caster Material	Color	Item No.
Polypropylene									
75 lb	5 gal to 15 gal	15¼"	11"	3¾"	1½"	5	Polypropylene	Brown	**38RY67**
75 lb	5 gal to 15 gal	15¼"	11"	3¾"	1½"	5	Polypropylene	Black	**38RY68**
900 lb	30 gal to 55 gal	24¼"	18¾" to 23-1/4"	7⅞"	3"	5	Polypropylene	Gray	**48J133**
Steel									
150 lb	5 gal	25½"	11⅝"	5⅝"	3"	4	Polyurethane	Red	**48J134**
750 lb	55 gal	27⁹⁄₁₆"	23¹³⁄₁₆"	7¾"	3"	3	Steel	Red	**48J135**
900 lb	55 gal	24⅛"	23⅞"	5¹⁵⁄₁₆"	3"	5	Polypropylene/Steel	Red	**48J138**
900 lb	5 gal to 55 gal	—	—	6"	3"	4	Polypropylene	Red	**6FVJ2**
900 lb	5 gal to 55 gal	24"	23½"	6⅛"	3"	4	Steel	Silver	**6FVJ1**
1,000 lb	30 gal	22¼"	19¼"	6½"	3"	4	Polyolefin	Gray	**1XUZ8**
1,000 lb	30 gal	20"	19¾"	5½"	3"	4	Polyolefin	Blue	**3JJH2**
1,000 lb	55 gal	24"	23½"	5½"	3"	4	Polyolefin	Gray	**3KMZ9**
1,000 lb	55 gal	26⅜"	23¼"	6½"	3"	4	Polyolefin	Gray	**1XUZ9**
1,000 lb	55 gal	24"	24"	5½"	3"	4	Polyolefin	Blue	**3JJG9**
1,000 lb	85 gal	27"	27"	—	3"	4	Sintered Iron	Red	**9TV13**
1,200 lb	5 gal to 55 gal	—	24⅛"	6"	(1) 3", (2) 6"	3	Rubber	Yellow	**6FVJ3**
1,200 lb	30 gal to 95 gal	20"	Adjustable	5⅜"	3"	4	Polypropylene	Red	**6FVJ4**
1,200 lb	30 gal to 95 gal	20"	Adjustable	5⅜"	3"	4	Steel	Red	**6FVJ5**
1,200 lb	55 gal	24"	23⅛"	6¼"	3"	4	Polypropylene	Silver	**6FVJ6**
1,250 lb	55 gal	24⅞"	23⅜"	6½"	3"	5	Polyolefin	Gray	**1XWA1**
1,250 lb	55 gal	25"	23⅜"	6½"	3"	5	Cast Iron	Gray	**1XWA2**
2,000 lb	55 gal	26¹¹⁄₁₆"	24³⁄₁₆"	7¹³⁄₁₆"	4"	8	Nylon	Red	**48J136**
2,000 lb	55 gal	24⅜"	24¹⁄₁₆"	7³⁄₁₆"	4"	4	Nylon	Red	**48J137**
304 Stainless Steel									
800 lb	30 gal	21"	19⅛"	6½"	3"	4	Polypropylene	Silver	**6FVH5**
800 lb	55 gal	24"	23⅛"	6½"	3"	4	Polypropylene	Silver	**6FVH6**
1,100 lb	55 gal	24"	23⅛"	6½"	3"	4	Polypropylene	Silver	**6FVH7**
1,100 lb	55 gal	24"	23⅞"	6½"	3"	5	Polypropylene	Silver	**6FVH8**
1,100 lb	55 gal	24"	23⅛"	6½"	3"	5	Polypropylene	Silver	**6FVH9**
1,200 lb	55 gal	24"	23⅛"	8¾"	5"	5	Polypropylene	Silver	**6FVJ0**


No. 34D646


No. 34D644


No. 34D647


No. 30YP18


No. 34D649


No. 34D650


No. 34D653

Dayton

Drum Trucks/Dispensers

- Load capacity: 1000 lb.

STEEL TRUCKS

Adjustable chime hook is self-storing. Allows transport of 55-gal. drum. 1" schedule 40 steel pipe frame is double-welded.

Steel Drums—No. 34D644 includes a kickstand and mold-on rubber wheels.

No. 34D646 has replaceable beveled drum shoes. Floating axle for easy handling.

No. 34D647 includes kickstand and welded drum shoes. Truck has combination handle, rear wheels, and swivel casters.

Poly Drums—One-way belt system for poly and fiber drums. Feature extra-wide nose pads and oversized handles with belt hooks. Include kickstand. No. 34D649 has spring-loaded axle for easy handling.

ALUMINUM DRUM TRUCKS

Drums are automatically engaged through the use of a spring-load chime hook. Reversible nose prongs are for use with 30- or 50-gal. drums. No. 34D653 has hand brake.

Description	Material	Overall Height	Overall Depth	Overall Width	Front Wheel Dia.	Rear Wheel Dia.	Item No.
For Use With Steel Drums							
2-Wheel Drum Truck	Steel	59½"	18"	23½"	10"	—	**34D646**
4-Wheel Drum Truck/Dispenser	Steel	56½"	21½"	24"	10"	6"	**34D644**
4-Wheel Drum Truck	Steel	59"	19½"	24"	10"	6"	**34D647**
	Steel	57½"	23¼"	23¾"	10"	6"	**34D665**
	—	37"	—	26¼"	—	—	**30YP18**
For Use With Polyethylene and Steel Drums							
2-Wheel Drum Truck/Dispenser	Steel	56½"	14½"	23½"	10"	—	**34D664**
For Use With Polyethylene Drums							
2-Wheel Easy Handling Truck	Steel	59½"	25"	24"	10"	—	**34D649**
4-Wheel Truck/Dispenser	Steel	57½"	24½"	23¾"	10"	6"	**34D650**
For Use With Polyethylene and Steel Drums							
2-Wheel Drum Truck/Dispenser	Steel	56½"	14½"	23½"	10"	—	**34D664**
4-Wheel Drum Truck	Aluminum	38¼"	55¼"	25"	10"	6"	**34D652**
	Aluminum	35½"	57½"	28"	12"	6"	**34D654**
4-Wheel Drum Truck w/Brake	Aluminum	38¼"	55¼"	25"	10"	6"	**34D651**
	Aluminum	35½"	57½"	28"	12"	6"	**34D653**



Steel Drum Upender

GA GRAINGER APPROVED

Use with one 55-gal. drum. Powder-coat finish.

Drum Cap.	Overall Height	Overall Width	Overall Length	Item No.
55 gal.	7"	6"	40"	**21VG52**



Dayton

Drum Cradles

55-GAL.

Cross-braced, channeled steel cradle frame with nonsparking oil- and chemical-resistant wheels.

No. 1GC91—Four 3" rigid polyolefin wheels are mounted inside the frame.

No. 3BA26—Two 3" rigid polyolefin wheels and two 3" polyolefin swivel casters.

30- AND 55-GAL.

Four 4" rigid polyolefin rollers allow drum to be rotated for positioning; resist reaction with fats, oil, and chemicals. Partially assembled. Top section has welded steel construction that bolts to the uprights. Retractable hardwood handles.

Cap. (lb.)	Dispensing Height (in.)	Level Height (in.)	L (in.)	W (in.)	Item No.
55-Gal.					
600	15	20	31.875''	—	**1GC91**
600	15	19¾	31	19	**3BA26**
30- and 55-Gal.					
1000	16½	25	43	19¾	**3BA27**


No. 30YN83


No. 31CA32

GA GRAINGER APPROVED

Horizontal Steel Drum Storage Racks

Bolt together to form a rigid rack. Forklift accessible. Red powder-coat finish.

Drum Rack Capacity	Cap.	H	W	D	Item No.
(2) 55 gal.	800 lb.	12"	45½"	30"	**30YN83**
(3) 55 gal.	800 lb.	12"	71½"	30"	**30YN84**
	2400 lb.	70"	33"	34¼"	**31CA28**
(4) 55 gal.	3200 lb.	48⅜"	60"	34¼"	**31CA29**
(6) 55 gal.	4800 lb.	48⅜"	85½"	34¼"	**31CA30**
	4800 lb.	70"	60"	34¼"	**31CA31**
(9) 55 gal.	7200 lb.	70"	85½"	34¼"	**31CA32**


No. 21VG34


No. 12R539


No. 12R542


No. 12R543


No. 12R538


No. 12R541


No. 21VG33


No. 21VG31


No. 12R540

GRAINGER APPROVED

Drum Lifters

VERTICAL DRUM LIFTERS
▪ Ship assembled

Move drums to a different location automatically. Align on drum chime using grip pads. Use with overhead hoist or crane. Crane lift hook engages lifter and grab hooks. Orange enamel finish.

ECONOMY DRUM LIFTERS

Lock pin provides safe transportation for drums by preventing them from opening. 1½"-dia. lifting eye is mounted on top of four ¼" x 1" hot-rolled steel supports.

SALVAGE DRUM LIFTERS
▪ Ship assembled

Orange enamel lifter places a 55-gal. drum into an 85-gal. steel or poly salvage/overpack drum using one moving part.

VERTICAL DRUM LIFTERS/DISPENSERS
▪ Ship assembled

Yellow lifter requires just one-person to transport and pour from open- and closed-head drums. Fiber Drum Adapter No. 4W966 sold separately.

Manual No. 12R538

Control provides 360°, low-level pouring and dumping. Holds drum vertically or horizontally during transit with positive tilt lock on drum saddle.

Geared No. 12R541

Features 5½-ft. control chain to lock drum in position. Drums that are less full are easier to tilt. Pour from remote heights.

ECONOMY OVERHEAD DRUM LIFTER

The three removable arms have either a drum faucet wrench, a removable top-ring wrench, or a built-in bung nut wrench. Drums can be lifted, transported, or lowered. Does not include required overhead lifting device.

OVERHEAD DRUM LIFTER

When lifting force is applied, an adjustable safety and positioning brake is engaged. Drum tops are automatically secured by a release lock. Welded steel construction. Requires an overhead lifting device (not included).

OVERHEAD MOUNT LIFTERS

Drums can be lifted by arm return spring on scissor arms. 21-ft. L x 9-ft. W x 16"H for 55-gal. 2-ft. 19¼"L x 9-ft. W x 15½"H for 30-gal. Use with Nos. 6XDR6 and 6XDR7, sold separately.

HOIST-MOUNTED DRUM LIFTER

When lowered, lifter automatically engages drum rim. Stabilizing arm reduces damage to drums. 3-pt. drum contact. Orange enamel finish.

Description	For Use With	Drum Cap.	Lifting Cap.	Overall Length	Overall Width	Overall Height	Item No.
Vertical Lifter	Steel, plastic or fiber drums	30 gal.	1000 lb.	19¾"	9 1⁄16"	18½"	**21VG35**
	Steel or Plastic Drums	55 gal.	1000 lb.	24"	9"	16 1⁄8"	**21VG34**
Vertical Drum Lifter	Steel Drums	55 gal.	1000 lb.	24"	9 1⁄16"	16 1⁄8"	**21VG36**
	Steel Drums	30, 55 gal.	1100 lb.	38"	22½"	2"	**30YP26**
	Steel Drums	55 gal.	1000 lb.	24½"	5"	2"	**21VG59**
	Closed Steel Drums	55 gal.	1000 lb.	29''	8''	18½"	**12R539**
Economy Drum Lifter	Closed-head steel drums	55 gal.	700 lb.	37¾''	23"	13"	**12R542**
Salvage Drum Lifter	Closed head steel drums	55, 85 gal.	1000 lb.	24"	9''	16"	**12R543**
Vertical Drum Lifter/Dispenser	Steel Drums	55 gal.	800 lb.	8''	27''	44''	**12R538**
	Steel Drums	55 gal.	800 lb.	8''	33¼''	45½''	**12R541**
Manual Vertical Drum Lifter/Dispenser	Steel Drums	55 gal.	800 lb.	8''	27"	44''	**21VG37**
	Steel Drums	55 gal.	800 lb.	8"	33¼''	45½''	**21VG38**
Drum Lifter	Steel Drums	55 gal.	800 lb.	30"	33"	8"	**30YP27**
Economy Overhead Drum Lifter	Steel and fiber drums that have a top lip	55 gal.	800 lb.	17 ½"	8"	8"	**21VG33**
Overhead Drum Lifter	Plastic, steel and fiber drums that have a top lip	55 gal.	800 lb.	23"	20"	31"	**21VG31**
Horizontal Drum Lifter	Steel Drums	55 gal.	1100 lb.	30½"	2 ¾"	6"	**30YP25**
Hoist Mounted Drum Lifter	For 30 gal. and 55 gal. Open or Closed Head Steel and Poly Drums	30, 55 gal.	1000 lb.	—	28''	8''	**12R540**
Adapter for 30 Gal. drum	30 Gal steel drum	30 gal.	less than 545 Lbs	21 ¼"	20"	8"	**21VG58**


Vertical Lift Polyester Sling No. 1XWA3


Vertical Lift Steel Sling No. 21VG53


Horizontal Lift Polyester Sling No. 1XWA5

GRAINGER APPROVED

Drum Slings

Polyester webbing slings are easy to use and store. Padded to prevent drums from cutting into sling. Rated for operation at temperatures up to 200°F. Include ratchet.

Construc.	Load Capacity	Overall Width	Overall Length	Item No.
Vertical				
Polyester	850 lb.	2"	40"	**1XWA3**
Polyester	850 lb.	2"	48"	**1XWA4**
Steel	1000 lb.	2¾"	40"	**21VG53**
Steel	2000 lb.	3½"	28"	**21VG32**
Horizontal				
Polyester	1500 lb.	1"	100"	**1XWA5**

Dayton

Automatic Fork Truck Drum Lifters

Units feature heavy-duty steel construction and can lift drums easily and quickly without hydraulic or electric connections. Simply slip drum onto forks and tighten hand screws. Attach or hang lifter on hook from an overhead hoist or crane.

SINGLE-DRUM

Single-jaw can be used with steel, plastic, or fiber drums.

DOUBLE-DRUM

For light-gauge steel, removable lid, plastic, and fiber drums with standard top chime. Double-jaw engages the drum in two places, approximately 7" apart, for even weight distribution.







Description	For Drum Material	Drum Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Single Drum							
Drum Lifter	Plastic, Steel, Fiber	55 gal.	1000 lb.	43¼"	28"	32½"	**21VG56**
Drum Grab	Steel	30, 55, 85 gal.	1000 lb.	34"	28"	34"	**29PH19**
Drum Lifter, Single Chime Jaw	Steel	15, 30, 55, 85 gal.	1500 lb.	38¾"	38¼"	36"	**29PH23**
Drum Grab	Steel	30, 55, 85 gal.	1600 lb.	33¾"	28"	35¼"	**29PH20**
Double Drum							
Drum Lifter	Plastic, Steel, Fiber	55 gal.	2000 lb.	43¼"	40½"	32½"	**21VG57**
Drum Grab	Steel	30, 55 gal.	2000 lb.	42"	44"	35½"	**29PH21**
Drum Grab	Steel	30, 55 gal.	3200 lb.	42"	44"	35½"	**29PH22**
Drum Lifter, Double Chime Jaw	Steel	30, 55, 85 gal.	4000 lb.	38¾"	46¾"	36"	**29PH17**
Accessories							
Single Jaw		55, 85 gal.	1000 lb.	17"	16"	31"	**21VG60**

















Dayton

Fork-Mounted Drum Handling Equipment

Designed for transporting and lifting closed-head drums.

DRUM GRABS

Hand-tightened lock screws secure grabs to forks. Bar jaws are made of steel. All-welded construction. No tools necessary to adjust drum grabs.

Note: 2-drum models should only be used with two same-sized drums.

Steel Drum Models—For closed-head drums.

Poly Drum Model—Use with drums with at least ⅜" top lip (chime).

AUTO-GRIP

For steel drums only. Mechanical grip is gravity-actuated for heavy-duty applications. For various size overpack drums, spring- and cam-actuated rubber-lined jaws can be manually adjusted. Adjustable distance between forks.

ROUNDED-BOTTOM

No. 21VG55 is used for egg-shaped plastic drums. Low drum attachment point. No. 21VG47 is used for steel, plastic, and fiber closed-head drums with a top lip. High drum attachment point requires at least 3/16" drum top lip.

Description	No. of Drums	For Use With	Drum Cap.	Load Capacity	Fork Pocket Size	Item No.
Drum Grabs						
Steel Drum Standard	1	Steel Drums	55 gal.	800 lb.	5½" x 2"	**21VG39**
	1	Steel Drums	55 gal.	1000 lb.	5½" x 2"	**21VG40**
	2	Steel Drums	55 gal.	1000 lb.	7" x 2¼"	**21VG45**
Steel Drum Adjustable	1	Steel Drums	30, 55 gal.	1000 lb.	5½" x 2"	**21VG42**
	2	Steel Drums	30, 55 gal.	1000 lb.	7" x 2¼"	**21VG46**
Poly Drum Adjustable	1	Poly Drums	30, 55 gal.	1000 lb.	5⅜" x 1½"	**21VG44**
Auto-Grip						
Gravity-Actuated	1	Steel Drums	55 gal.	1500 lb.	5½" x 2"	**21VG41**
	1	Steel Drums	30, 55 gal.	1500 lb.	5½" x 2"	**21VG43**
	1	Steel Drums	55 gal.	1500 lb.	5½" x 1½"	**21VG54**
Drum Positioners						
Horizontal	1	Steel Drums	55 gal.	660 lb.	2⅛"H x 5½"W	**30YP20**
Horizontal to Vertical	1	Steel Drums	55 gal.	880 lb.	2½"H x 5¾"W	**30YP19**

Load Capacity	Overall Width	Overall Length	Overall Height	Item No.
Rounded-Bottom				
800 lb.	28¼"	56"	22"	**21VG55**
1100 lb.	28¼"	48"	22⅛"	**21VG47**

Dayton

Fork-Mounted Drum Lifters/Dispensers

- For 55-gal. drums

Vertical-type dispensers feature an 360° rotation angle. 7½"W x 2½"H fork-pocket size. 31¼" min. between fork pockets. Powder-coat finish.

For Drum Material	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Steel	800 lb.	26⅜"	38½"	16¼"	**21VG49**
Steel	1500 lb.	30½"	38½"	16¼"	**21VG50**











Dayton

Drum Carrier, Handler, and Truck

Ergonomically lifts, transports, and places drums on and off pallets. Features a spring-loaded clamp to securely hold any rimmed drum and legs that adjust for different sized pallets. Swivel steering wheels provide easy positioning and precision roller bearing load wheels ensure maximum stability.

Description	For Use With	Drum Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Drum Carrier	Steel Drums	55 gal.	880 lb.	53"	33½"	43"	**29PH16**
Drum Truck	Steel Drums, Plastic Drums	55, 85 gal.	880 lb.	45"	60"	73"	**29PH14**
Ergonomic Drum Handler	Steel Drums, Plastic Drums	30, 55, 85 gal.	1000 lb.	37"	45"	49"	**29PH15**



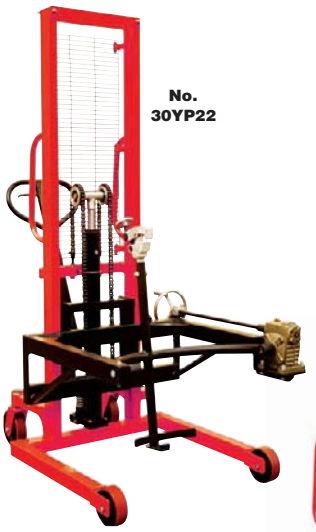


Dayton

Drum Carrier and Palletizer

Steel construction with a powder-coat finish.

Description	For Use With	Drum Cap.	Load Capacity	Item No.
Drum Carrier	Steel Drums	55 gal.	800 lb.	**21VG48**
Drum Palletizer	Steel Drums	55 gal.	880 lb.	**30YP24**





Dayton

Drum Stackers

Steel, powder-coat drums can be rotated 360°. Use with 880-lb., 55-gal. capacity drums. 7" polyurethane casters.

For Use With	Drum Cap.	Load Capacity	Overall Height	Overall Width	Overall Length	Item No.
Close-head Drum	55 gal.	880 lb.	77⅛"	31¾"	52⅛"	**30YP22**
Open and Close-head Drum	55 gal.	880 lb.	77⅛"	31¾"	52⅛"	**30YP23**



GA GRAINGER APPROVED

Portable Electric Hydraulic Drum Dumpers

- For open- and closed-head drums
- For use with 30- and 55-gal. steel, plastic, or fiber drums
- Overall width is 36"

Allow one person to load or unload and stop drum at any angle during dumping cycle. Electric limit switch stops unit when max. dumping angle (135°) has been reached. 40-sec. controlled rotation. ¾ HP, 110/208-230V, single-phase electric motor is prewired to 110VAC. 24VAC push-button hand control is mounted on coil cord. Two rigid and two swivel casters.

Dispensing Height (in.)	Rotated Height (in.)	Level Height (in.)	Cap. (lb.)	Item No.
48	116¾	72¼	1000	**1TZ83**
60	137¼	84½	750	**1TZ85**

Shelf and Utility Cart Selection Guide

MATERIAL

- **Metal:** Metal shelf and utility carts are more rugged and typically can hold heavier loads than plastic shelf and utility carts.
- **Plastic:** Plastic shelf and utility carts are lighter and provide more resistance to dents, corrosion, and water damage than metal shelf and utility carts.

HANDLES

- **(2) Handles:** Front and rear handles allow cart to be pushed from either side when maneuvering in tight spaces.
- **Ergonomic Handle:** Provides comfortable grip.
- **Flat Handle:** Low-profile handle stays out of the way.
- **Raised Handle:** Provides comfortable hand placement and push height.
- **U-Shaped Handles:** Offer secure grip when climbing ladders on vertical-access carts.

SHELVES

- **Adjustable Shelf:** Shelf can be raised or lowered to accommodate items of different sizes.
- **Compartmented Shelf:** Deep compartments keep containers of chemicals stable and capture spills.
- **Deep-Lipped Shelf:** Tall lip contains spills and better protects against items sliding off the shelf than a shorter lip.
- **Fixed Shelf:** Shelf cannot be moved.
- **Flush Shelf:** Flush sides let items slide onto or off of the shelf.
- **Lipped Shelf:** Short lip stops items from sliding off shelf, and heavy items don't need to be lifted far to clear the lip.
- **Perforated Shelf:** Small openings on shelf surface let liquid and debris fall through, which helps keep the shelf clean.
- **Removable Shelf:** Shelf can be removed for cleaning or to accommodate tall items.
- **Shelf with Lipped Guards:** Tall guards run along the length and width of the shelf to prevent items from sliding off it.
- **Single-Side Flush Shelf:** One flush side lets items slide onto or off of the shelf, and three lipped sides stop items from falling off the shelf.

Deep Lipped Shelf w/ Flat Handle No. 5UTH9



METRO We put space to work. | GA GRAINGER APPROVED | Rubbermaid Commercial Products

Utility Carts with Deep-Lipped Plastic Shelves

All have 2 swivel casters and 2 swivel casters with brake, except as noted. Assembly required.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Top Shelf Height	Distance Between Shelves	Shelf Color	Brand	Item No.	
3 Shelves and Raised Handle										
400 lb	33 ¾"	21½"	34"	21½"	33¼"	11"	Black	Metro	**8DH66**	*
	39 ½"	27"	39½"	27"	33¼"	11"	Black	Metro	**2XJR8**	*
3 Shelves and Flat Handle										
300 lb	24"	18"	24"	18"	38"	24¾"	Black	GA	**8ZRY7**	
	24"	18"	24"	18"	38½"	10¾"	Gray	GA	**9JDN1**	
	24"	18"	24"	18"	38½"	11¾"	Red	GA	**13W633**	
	24"	18"	24"	18"	38½"	12"	Black	GA	**8DGV2**	
	24"	18"	24"	18"	38½"	36½"	Blue	GA	**13W634**	
400 lb	32"	24"	32"	24"	38"	10¾"	Black	GA	**9LDN6**	
	32"	24"	32"	24"	38"	10¾"	Gray	GA	**9APA5**	
	32"	24"	32"	24"	38"	24¾"	Black	GA	**8GPT8**	
2 Shelves and Raised Handle										
300 lb	24"	18"	24"	18"	37½"	26"	Gray	GA	**9F954**	
400 lb	33 ¾"	21½"	34"	21½"	33¼"	24"	Black	Metro	**8URD4**	*
	39 ½"	27"	39½"	27"	33¼"	24"	Black	Metro	**2XJR6**	*
2 Shelves and Flat Handle										
300 lb	24"	18"	24"	18"	37½"	26"	Blue	GA	**13W631**	
	24"	18"	24"	18"	37½"	26"	Red	GA	**13W630**	
400 lb	32"	24"	32"	24"	37¼"	24¾"	Black	GA	**5WCU8**	
500 lb	29 ½"	15½"	40¼"	25⅜"	31¼"	18⅞"	Black	Rubbermaid	**2ZB53**	†
	30"	16"	34"	16"	31¼"	19⅞"	Gray	Rubbermaid	**9G428**	†
	30"	17½"	34½"	17½"	33"	19"	Beige	GA	**5UTH8**	†
	30"	17½"	34½"	17½"	33"	19"	Gray	GA	**5UTH9**	†
	30"	17½"	34½"	17½"	33"	19"	Green	GA	**5UTJ0**	†
	31 ½"	18"	39"	18"	33"	18⅞"	Beige	Rubbermaid	**1FD39**	†
	31 ½"	18"	39"	18"	33"	18⅞"	Black	Rubbermaid	**1FD38**	†
	35 ½"	23½"	40"	33"	32¼"	18⅞"	Black	Rubbermaid	**2ZB54**	†
	35 ⅞"	24"	40½"	26"	31¼"	18⅞"	Gray	Rubbermaid	**8Z623**	†
	36"	24"	40"	25½"	37¼"	19¾"	Gray	GA	**401R92**	†
	36 ⅞"	24⅞"	45½"	26"	34¼"	18⅞"	Black	Rubbermaid	**1FD42**	†
	37"	25⅜"	41"	26"	33"	19"	Beige	GA	**5UTJ1**	†
	37"	25⅜"	41"	26"	33"	19"	Gray	GA	**5UTJ2**	†
	37"	25⅜"	41"	26"	33"	19"	Green	GA	**5UTJ3**	†
	37 ½"	26"	45½"	26"	34¼"	18⅞"	Beige	Rubbermaid	**1FD43**	†
2 Shelves and Ergonomic Handle										
500 lb	31 ¼"	17"	39"	18"	33¼"	18⅛"	Beige	Rubbermaid	**4AAZ9**	†
	31 ¼"	17"	39"	18"	33¼"	18⅛"	Black	Rubbermaid	**4ACA1**	†
	36 ¾"	25"	45½"	26"	37"	18⅛"	Black	Rubbermaid	**4ACA5**	†
	36 ⅜"	25"	44"	25½"	33½"	19¼"	Beige	Rubbermaid	**4ACA6**	†
	36 ⅜"	25"	44"	25½"	33½"	19¾"	Black	Rubbermaid	**4VZF9**	†
750 lb	38 ⅛"	24¼"	38½"	24½"	32"	20⅛"	Black	GA	**52TV60**	
	38 ⅛"	24¼"	38½"	24½"	32"	20⅛"	Gray	GA	**52TV58**	
	46 ½"	25"	55"	26"	33¼"	18⅞"	Black	Rubbermaid	**4DFV6**	†

** 4 swivel casters. † 2 swivel, 2 rigid casters.*

Lipped Shelves w/ Flat Handle No. 13W538



GA GRAINGER APPROVED | METRO We put space to work. | Rubbermaid Commercial Products

Utility Carts with Lipped Plastic Shelves

All have 2 swivel casters and 2 swivel casters with brake, except as noted. Assembly required.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Top Shelf Height	Distance Between Shelves	Shelf Color	Brand	Item No.	
5 Shelves and Flat Handle										
300 lb	24"	18"	24"	18"	46"	8½"	Black	GA	**8EJ11**	
	24"	18"	24"	18"	46"	46"	Gray	GA	**9NW14**	
3 Shelves and Flat Handle										
300 lb	24"	18"	24"	18"	32"	11¾"	Black	GA	**8PLK4**	
	24"	18"	24"	18"	32"	11¾"	Blue	GA	**13W645**	
	24"	18"	24"	18"	34"	9½", 16½"	Black	GA	**13W538**	
	24"	18"	24"	18"	34"	9½", 16½"	Blue	GA	**4HRN9**	
	24"	18"	24"	18"	34"	9½", 16½"	Gray	GA	**4HRP8**	
	24"	18"	24"	18"	34"	9½", 16½"	Green	GA	**4HRV4**	
	24"	18"	24"	18"	34"	9½", 16½"	Purple	GA	**13W539**	
	24"	18"	24"	18"	34"	9½", 16½"	Red	GA	**13W565**	
	24"	18"	24"	18"	42"	16½"	Black	GA	**4HRR4**	
	24"	18"	24"	18"	42"	16½"	Blue	GA	**5WCZ1**	
	24"	18"	24"	18"	42"	16½"	Gray	GA	**5WCP3**	
	24"	18"	24"	18"	42"	16½"	Green	GA	**8G427**	
	24"	18"	24"	18"	42"	16½"	Red	GA	**4HRU2**	
	32"	24"	24"	18"	33½"	10¾"	Black	GA	**9RYW0**	
400 lb	24"	18"	24"	18"	34"	8½", 17¾"	Black	GA	**8DXD2**	
	24"	18"	24"	18"	34"	11¾"	Black	GA	**8Y889**	
	28⅝"	18¼"	31½"	18½"	35¾"	11"	Black	Metro	**29JU28**	*
	28⅝"	18¼"	31½"	18½"	35¾"	11"	Gray	Metro	**29JU30**	*
	31¼"	23⅜"	34½"	24"	35¾"	11"	Black	Metro	**29JU34**	*
	31¼"	23⅜"	34½"	24"	35¾"	11"	Gray	Metro	**29JU36**	*
500 lb	37"	27⅞"	40½"	28"	36⅜"	11"	Black	Metro	**29JU40**	*
	37"	27⅞"	40½"	28"	36⅜"	11"	Gray	Metro	**29JU42**	*
2 Shelves and Flat Handle										
200 lb	24"	18"	24"	18"	24½"	16½"	Black	GA	**4HRK3**	
	24"	18"	24"	18"	24½"	20½"	Black	GA	**9GMU7**	
	24"	18"	24"	18"	24½"	24½"	Blue	GA	**4HRK2**	
	24"	18"	24"	18"	24½"	24½"	Green	GA	**4HRU7**	
300 lb	24"	18"	24"	18"	33"	26"	Black	GA	**9LDN5**	
	24"	18"	24"	18"	33"	26"	Gray	GA	**9WRA1**	
	24"	18"	24"	18"	33"	26"	Red	GA	**13W641**	
	24"	18"	24"	18"	33½"	26"	Black	GA	**9LDF2**	
	24"	18"	24"	18"	33½"	26"	Gray	GA	**9KC23**	
	28⅝"	18¼"	31½"	18½"	35¾"	24"	Black	Metro	**29JU25**	*
	28⅝"	18¼"	31½"	18½"	35¾"	24"	Gray	Metro	**29JU27**	*
	31¼"	23⅜"	34½"	24"	35¾"	24"	Black	Metro	**29JU31**	*
	31¼"	23⅜"	34½"	24"	35¾"	24"	Gray	Metro	**29JU33**	*
400 lb	32"	24"	24"	32"	34½"	25"	Black	GA	**9MN33**	
	32"	24"	32"	24"	32¾"	24¾"	Black	GA	**9APA4**	
	32"	24"	32"	24"	32¾"	24¾"	Gray	GA	**8NLW2**	
	32"	24"	32"	24"	34½"	25"	Gray	GA	**9GV15**	
	37"	27⅝"	40½"	28"	36⅜"	24"	Black	Metro	**29JU37**	*
	37"	27⅝"	40½"	28"	36⅜"	24"	Gray	Metro	**29JU39**	*

** 4 swivel casters.*



Cart w/ Lockable Sliding Drawer
No. 3NE61



Lockable Instrument Cart
No. 4MC26

Enclosed and Lockable Plastic Service Carts

GA GRAINGER APPROVED

Rubbermaid Commercial Products

- Assembly required

GA
- Ergonomic, easy-grip handles
- 4 ball-bearing swivel casters (2 with brake)

Rubbermaid®
- Carts have aluminum uprights, except No. 3NE61 has plastic
- 4 swivel casters

Load Capacity	No. of Shelves	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
2-Sided Enclosed Service Cart							
400 lb.	3	43⅜"	20¼"	39¾"	Off-White	GA	**35KT29**
3-Sided Enclosed Service Carts							
300 lb.	3	40⅜"	20"	37½"	Black	Rubbermaid	**4YX42**
300 lb.	3	40⅜"	20"	37½"	Off-White	Rubbermaid	**5M692**
400 lb.	3	43⅜"	20¼"	39¾"	Black	GA	**35KT30**
400 lb.	3	43⅜"	20¼"	39¾"	Off-White	GA	**35KT31**
Carts w/ Lockable Cabinet							
300 lb.	2	40⅜"	20"	37½"	Black	Rubbermaid	**4YX43**
400 lb.	3	34¼"	19"	39½"	Black	GA	**35KT33**
Carts w/ Lockable Sliding Drawer							
200 lb.	2	33⅜"	18⅝"	37¾"	Black	Rubbermaid	**3NE61**
400 lb.	3	34¼"	19"	39½"	Black	GA	**35KT32**
Lockable Instrument Carts							
300 lb.	2	40⅝"	20"	37 13/16"	Gray	Rubbermaid	**4MC26**
400 lb.	3	34¼"	19"	39½"	Black	GA	**35KT34**
Accessories							
30 lb. Bin for Utility Carts with Plastic or Wire Shelves - Black						Rubbermaid Commercial Products	**3NE59**
65 lb. Bin for Utility Carts with Plastic or Wire Shelves - Black						Rubbermaid Commercial Products	**3NE60**



No. 406R91



No. 406R93

Adaptable-Design Utility Carts with Deep Lipped Plastic Shelves

Rubbermaid Commercial Products

Adaptable-design utility carts can be reconfigured for different tasks. The carts' ergonomic handle can be repositioned to improve operator comfort. A flip-up shelf provides a flat work surface without having to rearrange items on the top shelf. Tool-holding slots, snap hooks, and other storage features keep items organized on the carts. V-notch holds pipe or conduit during cutting. The carts' shelves have a tall lip that contains spills and stops items from sliding off the shelves. All have two locking swivel casters and two rigid casters. Assembly required.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Shelf Color	Item No.
Utility Carts								
500 lb.	44"	17"	46½"	18"	36"	20"	Black	**406R89**
	44"	17"	46½"	18"	36"	20"	Gray	**406R90**
	48"	25"	51½"	25½"	36"	22"	Black	**406R91**
	48"	25"	51½"	25½"	36"	22"	Gray	**406R92**
Accessory Hooks, Pkg. of 4								
10 lb.	—	—	—	5"	5"	—	—	**406R93**



No. 4YT95

AKRO-MILS

Utility Carts with Flip-Gate Flush Plastic Shelves

The shelves on these carts have hinged sides that flip up to create a lip that stops items from falling off them or flip down to create a flush surface that lets items slide onto or off of the shelves during loading or unloading. The carts' I-shaped support posts provide unobstructed access to the bottom shelf. All have two swivel casters with brake and 2 rigid casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Item No.
400 lb.	28"	17"	42"	19"	34"	**5YM99**
	32"	22"	46"	24"	34"	**4YT95**

Nestable Utility Carts with Perforated Lipped Plastic Shelves

These utility carts nest together to save space when storing the carts. The carts' perforated plastic shelves let liquids, dirt, and debris fall through them, which helps keep the shelves clean when the carts are used in dirty or wet areas. The shelves have a short lip that stops items from sliding off them. All have two swivel and two rigid casters.



No. 6WZK8

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
600 lb.	37"	22"	40"	26½"	44"	18"	**6WZK8**
	37"	22"	40"	29½"	44"	18"	**6WZK9**

Cart Position Shown



Truck Position Shown



Convertible Utility Carts with Flush Plastic Shelf and Platform

Rubbermaid Commercial Products

The top shelf on this cart folds down to convert it to a solid-back platform truck so it can carry items that would be too large to fit on it when the top shelf is in place. The shelf and platform are flush, which lets items slide onto or off of them during loading and unloading. The platform has a 250-lb. capacity. The cart has four swivel casters, two of which are locking. Ships assembled.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Item No.
400 lb.	32"	23½"	45½"	24"	34½"	**1MDN4**


No. 4UR44


No. 4UR43


No. 5M738


No. 1FD40


No. 1FD41


No. 1FD45

Rubbermaid Commercial Products

Structural Foam Plastic Mobile Cabinet Workbenches

Mobile cabinet workbenches provide tool storage and a flat work space. Made from structural foam plastic, which will not rust, dent, or chip. Models with lockable drawers feature ball bearing full-extension slides. Some assembly required, except for No. 4UR44.

250-LB. CAPACITY

Five metal storage drawers. Pegboard side panels provide hanging storage. Locking bar keeps contents secure. Built-in cord wrap. Four 4" nonmarking casters (2 swivel, 2 rigid).

330-LB. CAPACITY

Multiple compartmentalized boxes and slide-out trays. Molded compartments on handle provide extra storage. Built-in cord wrap. Four 5" nonmarking casters (2 locking swivel, 2 rigid).

500-LB. CAPACITY

Locking cabinet with shelves or four locking drawers. Includes 3-outlet surge-suppressor power strip with 10 ft. cord. Four 5" nonmarking casters (2 locking swivel, two rigid).

750-LB. CAPACITY

Locking cabinet and four locking drawers. Includes 3-outlet surge-suppressor power strip with 10-ft. cord. Four 5" casters (2 locking swivel, 2 rigid).

Load Capacity	D	W	H	Item No.
250 lb	19 13/16 in	32 5/8 in	33 1/2 in	4UR44
330 lb	19 1/4 in	38 in	33 3/8 in	4UR43
	19 1/4 in	38 in	33 7/8 in	5M738
500 lb	18 1/4 in	41 5/8 in	38 3/8 in	1FD40
	18 3/8 in	40 5/8 in	33 3/8 in	1FD41
750 lb	26 1/4 in	49 in	38 in	1FD45

GA GRAINGER APPROVED

METRO We put space to work.

Chemical-Resistant Utility Carts with Plastic Shelves

Made from chemical-resistant materials that withstand exposure to acids and corrosives. All have two swivel and two rigid casters (6GJY8 has locking casters), two shelves, and a flat handle. **Antimicrobial** shelves have been treated with an antimicrobial compound to prevent the growth of odor- and stain-causing bacteria, mold, and mildew.


With Compartmented Plastic Shelves No. 9NKX9


With Antimicrobial Lipped Shelves No. 6GJY8

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Brand	Item No.
With Compartmented Plastic Shelves							
150 lb	23 in	15 1/4 in	29 in	16 1/2 in	38 in	GA	9NKX9
250 lb	30 3/4 in	23 in	36 1/2 in	24 in	36 in	GA	9T856
With Antimicrobial Lipped Plastic Shelves							
600 lb	36 in	18 in	36 in	18 in	40 in	Metro	6GJY8

METRO We put space to work.

Utility Carts with Antimicrobial Plastic Shelves

The blue plastic shelves on these carts have been treated with an antimicrobial compound that prevents odor- and stain-causing bacteria, mold, and mildew from growing on the shelves. All have four swivel casters.


No. 20W685

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
Perforated Flush Shelves							
Ergonomic Handle and 2 Shelves							
900 lb	30 in	18 in	34 1/2 in	20 1/2 in	39 1/2 in	26 in	20W686
	36 in	24 in	40 1/2 in	26 1/2 in	39 1/2 in	26 in	20W688
Ergonomic Handle and 3 Shelves							
900 lb	30 in	18 in	34 1/2 in	20 1/2 in	39 1/2 in	11 in	20W687
	36 in	24 in	40 1/2 in	26 1/2 in	39 1/2 in	11 in	20W685
Lipped Shelves							
Flat Handle and 2 Shelves							
300 lb	28 5/16 in	18 1/4 in	31 1/2 in	18 1/2 in	35 1/2 in	24 in	29JU26
	31 1/4 in	23 3/8 in	34 1/2 in	24 in	35 1/2 in	24 in	29JU32
400 lb	37 in	27 5/8 in	40 1/2 in	28 in	37 in	24 in	29JU38
Flat Handle and 3 Shelves							
400 lb	28 5/16 in	18 1/4 in	31 1/2 in	18 1/2 in	35 1/2 in	11 in	29JU29
	31 1/4 in	23 3/8 in	34 1/2 in	24 in	35 1/2 in	11 in	29JU35
500 lb	37 in	27 5/8 in	40 1/2 in	28 in	37 in	11 in	29JU41
Deep Lipped Shelves							
Flat Handle and 2 Shelves							
400 lb	33 3/4 in	21 1/2 in	34 in	21 1/2 in	41 in	24 in	9CD06
Raised Handle and 3 Shelves							
400 lb	39 1/2 in	27 in	39 1/2 in	27 in	41 in	11 in	36NK67

METRO We put space to work.

Antimicrobial Polymer Mobile Shelving

- NSF Listed, except No. 3TJ71
- 5" casters

Feature Microban® antimicrobial product protection. Lift-off removable shelf mats are dishwasher-safe and easy to clean and maintain. Shelf height adjusts using quick-release mechanism.

MetroMax Q—Feature gray epoxy-coated steel posts and shelf frame.

MetroMax i—Feature all polymer posts and shelf frames.


MetroMax Q® Ventilated and Solid Shelves No. 20W696

Load Capacity	Overall Depth	Overall Width	Overall Height	Distance Between Shelves	Caster Material	Item No.
MetroMax Q®						
4 Ventilated Shelves						
900 lb	60 in	24 in	67 5/16 in	—	Polyurethane	3TJ72
	24 in	36 in	67 5/16 in	—	Polyurethane	3TJ71
900 lb.	24 in	48 in	67 5/16 in	17"	Rubber	20W682
	24 in	60 in	67 5/16 in	17"	Rubber	20W683
4 Ventilated Shelves & 1 Solid Shelf						
	18 in	36 in	79 in	15"	Polyurethane	20W696
900 lb.	24 in	48 in	79 in	15"	Polyurethane	20W701
	24 in	60 in	79 in	15"	Polyurethane	20W702
MetroMax i®						
4 Solid Shelves						
	18 in	60 in	67 5/16 in	17"	Polyurethane	20W663
900 lb.	24 in	36 in	67 5/16 in	17"	Polyurethane	20W666
	24 in	48 in	67 5/16 in	17"	Polyurethane	20W668
	24 in	60 in	67 5/16 in	17"	Polyurethane	20W671
4 Ventilated Shelves						
900 lb.	18 in	48 in	67 5/16 in	17"	Rubber	20W659

Find More Utility Cart Option Information on pg. 1147.



2 Shelves w/ 2 Raised Handles
No. 3JHU1



2 Shelves w/ Ergonomic Handle
No. 16D355



2 Shelves w/ Flat Handle
No. 1TGT8



5 Shelves w/ Flat Handle
No. 19G698

METRO · GA GRAINGER APPROVED · LITTLE GIANT · WESTWARD

Utility Carts with Flush Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and (2) Raised Handles								
600 lb	36"	18"	36"	18"	42"	—	Metro	**3JHU1**
	36"	24"	36"	24"	42"	—	Metro	**3JHU3**
2 Shelves and Ergonomic Handle								
3,600 lb	48"	24"	54¼"	24¼"	40¾"	22¼"	GA	**16D355**
2 Shelves and Flat Handle								
	36"	24"	42"	24"	39"	19½"	GA	**5CHA3**
	36"	24"	42½"	24½"	36"	26¾"	GA	**49Y228**
1,500 lb	48"	24"	51⅞"	24½"	38"	18¾"	GA	**5CHA4**
	60"	30"	66⅜"	30½"	36"	18¾"	GA	**5CHA6**
	60"	30"	66⅜"	30½"	38"	26¾"	GA	**49Y231**
	36"	24"	42½"	24½"	39"	19¼"	GA	**16D362**
2,400 lb	48"	24"	51⅞"	24½"	38"	19¼"	GA	**16D363**
	48"	30"	53½"	30"	36"	19½"	Little Giant	**39E635**
	60"	30"	66⅜"	30½"	60"	19¼"	GA	**16D365**
3,600 lb	60"	30"	65½"	30"	36"	19½"	Little Giant	**19G769**
	36"	24"	36½"	24½"	36"	26¾"	GA	**1TGT4**
	48"	24"	51⅞"	24½"	36"	26¾"	GA	**1TGT5**
4,000 lb	48"	30"	51⅞"	30¼"	38½"	26¾"	GA	**1TGT6**
	48"	36"	51⅞"	36¼"	35½"	26¾"	GA	**1TGT7**
	72"	36"	78⅜"	36⅜"	39"	26¾"	GA	**1TGT8**
	36"	24"	48"	24½"	34½"	23¼"	GA	**1TGV8**
	48"	24"	51⅞"	24½"	33½"	23¼"	GA	**1TGV9**
	48"	24"	51⅞"	24½"	45"	26¾"	Westward	**52CL38**
	48"	30"	51⅞"	30¼"	35"	23¼"	GA	**1TGW1**
	48"	30"	51⅞"	30¼"	36½"	26¾"	GA	**49Y157**
5,000 lb	48"	30"	51⅞"	30¼"	38"	26¾"	Westward	**52CL41**
	60"	24"	65½"	24"	36"	23"	Little Giant	**19G770**
	60"	30"	65½"	30"	36"	23"	Little Giant	**8CGA9**
	60"	30"	66⅜"	30½"	35"	23¼"	GA	**10F435**
	72"	36"	77½"	36"	36"	23"	Little Giant	**9CKA8**
	72"	36"	78⅜"	36⅜"	39"	23¼"	GA	**1TGW3**
600 lb	36"	24"	42½"	24½"	36"	—	GA	**2HDR1**
3 Shelves and Flat Handle								
1,200 lb	30"	18"	42½"	24½"	66½"	12½"	GA	**423P54**
2,000 lb	48"	24"	53½"	24"	35"	11¾"	Little Giant	**49Y471**
3,000 lb	48"	24"	51⅞"	24½"	38"	12½"	GA	**9NKW3**
5,000 lb	48"	30"	51⅞"	30¼"	57½"	12½"	GA	**49Y167**
	60"	30"	65½"	30"	36"	10½"	Little Giant	**10F430**
5 Shelves and Flat Handle								
3,000 lb	60"	30"	78½"	30¼"	63"	12½"	GA	**19G698**



2 Shelves w/ Flat Handle
No. 2CZY4



5 Shelves w/ Flat Handle
No. 1TGV4

Jamco carts · GA GRAINGER APPROVED · WESTWARD · LITTLE GIANT

Utility Carts with Lipped Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and Ergonomic Handle								
	36"	18"	42"	19"	39"	25"	Jamco	**16C098**
	36"	24"	36"	24½"	41"	24"	GA	**16C432**
	36"	24"	39"	24½"	41"	31"	GA	**2XJR9**
	36"	24"	54½"	24½"	40"	26¾"	GA	**49Y185**
1,200 lb	36"	30"	42"	31"	39"	25"	Jamco	**16C104**
	48"	24"	54"	25"	43"	25"	Jamco	**16C433**
	48"	30"	54"	31"	43"	25"	Jamco	**16C437**
	48"	36"	54"	37"	43"	25"	Jamco	**16C440**
	72"	24"	78⅜"	24½"	41"	26¾"	GA	**16C435**
1,400 lb	36"	24"	42"	24½"	35"	24"	GA	**4HTN7**
2 Shelves and Flat Handle								
	24"	18"	30¼"	18¼"	33"	23"	GA	**16C184**
	24"	18"	54½"	24½"	36"	23¾"	GA	**19G933**
	30"	18"	54½"	24½"	36"	23¾"	GA	**2NXV2**
	30"	24"	36"	25"	35"	19"	Jamco	**16C403**
	32"	18"	64½"	24½"	40½"	26¾"	GA	**9GE64**
	36"	18"	42"	24½"	37"	23"	GA	**16C186**
	36"	24"	42"	24"	35"	25"	GA	**9GEY9**
	36"	24"	54"	24½"	37"	26¾"	GA	**49Y123**
	36"	24"	75½"	24½"	51½"	24½"	GA	**8RR22**
1,200 lb	36"	30"	42"	31"	35"	19"	Jamco	**8ER52**
	48"	18"	54"	19"	35"	20"	Jamco	**16C754**
	48"	24"	54½"	24½"	38"	26¾"	GA	**49Y124**
	48"	30"	54"	31"	39"	25"	Jamco	**8VXZ9**
	48"	36"	54"	37"	39"	25"	Jamco	**16C721**
	48"	36"	64½"	36¼"	38"	21"	GA	**16C764**
	60"	24"	66⅜"	24¼"	44"	21"	GA	**16C758**
	60"	30"	66"	31"	39"	25"	Jamco	**8VYF9**
	60"	30"	66⅜"	30½"	38½"	26¾"	GA	**49Y125**
	72"	30"	78"	31"	35"	19"	Jamco	**16C406**
1,400 lb	36"	24"	42"	25"	35"	25"	GA	**1NFA8**
	36"	24"	42"	24"	39"	18"	GA	**5CGZ9**
	36"	24"	54½"	24½"	34"	19¼"	GA	**49Y555**
	36"	24"	54½"	24½"	43½"	26¾"	GA	**49Y224**
	36"	24"	78½"	24½"	47"	19¼"	GA	**49Y556**
1,500 lb	48"	24"	51"	24½"	40"	19¼"	GA	**49Y559**
	48"	24"	54"	24"	39"	18"	GA	**5CHA0**
	48"	30"	51⅞"	30½"	36"	17¼"	GA	**5CHA1**
	48"	30"	63½"	30¼"	60"	26¾"	GA	**49Y226**
	60"	30"	66⅜"	30½"	39½"	17¼"	GA	**5CHA2**
100 lb	27"	18"	30"	24½"	36"	12⅝"	Westward	**2CZY4**
2,000 lb	36"	24"	39"	24½"	41½"	19¾"	GA	**39E629**
	36"	24"	36"	24½"	41½"	17¾"	GA	**16D366**
	36"	24"	54½"	24½"	38"	26¾"	GA	**49Y160**
2,400 lb	36"	24"	54½"	24½"	41"	17¾"	GA	**39E637**
	48"	24"	51⅞"	24½"	35"	23¾"	GA	**49Y581**
	60"	30"	66⅜"	30½"	68"	26¾"	GA	**49Y163**
3,000 lb	36"	24"	66½"	24½"	40"	23¾"	GA	**8DGG1**
3,600 lb	48"	24"	53½"	24"	36"	18"	Little Giant	**19G782**
2 Shelves and Raised Handle								
1,200 lb	36"	24"	39"	24"	36"	16"	GA	**10F449**
3 Shelves and Ergonomic Handle								
1,200 lb	36"	24"	39"	24½"	41"	12½"	GA	**19G674**
	60"	36"	66⅜"	36¼"	41½"	12½"	GA	**16C116**
3 Shelves and Flat Handle								
	30"	18"	54½"	24½"	38"	10½"	GA	**16C190**
	30"	18"	54½"	24½"	45"	12½"	GA	**2NXV5**
	30"	24"	36"	25"	39"	12"	Jamco	**16C392**
	32"	18"	64½"	24½"	40½"	12½"	GA	**9PP81**
	36"	18"	54½"	24½"	38"	12½"	GA	**49Y132**
1,200 lb	36"	24"	42"	24"	35"	11¾"	GA	**9CM21**
	36"	24"	54½"	24½"	36"	14⅜"	GA	**49Y461**
	36"	30"	42"	31"	35"	12"	Jamco	**16C732**
	36"	30"	42"	31"	39"	12"	Jamco	**16C395**
	48"	24"	51⅞"	24¼"	34"	12½"	GA	**49Y135**
	48"	24"	51⅞"	24½"	40"	10½"	GA	**16C193**
	48"	36"	54"	37"	35"	12"	Jamco	**16C734**
1,500 lb	36"	48"	48"	48¼"	36"	12"	GA	**40LF03**
2,000 lb	60"	30"	65½"	30"	36½"	11¾"	Little Giant	**49Y482**
	36"	24"	66½"	24½"	36"	17"	GA	**8XEW4**
3,000 lb	48"	24"	54"	24½"	35"	17"	GA	**8CYY7**
	48"	30"	54½"	30¼"	60"	12½"	GA	**10F425**
	60"	36"	66⅜"	36¼"	41"	17"	GA	**16A931**

CONTINUED

CONTINUED

Jamco carts ★GA GRAINGER APPROVED ★WESTWARD LITTLE GIANT

Utility Carts with Lipped Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
4 Shelves and Flat Handle								
3,000 lb	36"	24"	39"	24½"	40"	14¾"	GA	**49Y149**
	48"	24"	51⅞"	24¼"	36½"	14¾"	GA	**2TUH8**
	48"	30"	54"	31"	60"	15"	Jamco	**16A935**
	60"	30"	66⅜"	30½"	40½"	14¾"	GA	**49Y151**
	72"	36"	78"	37"	60"	15"	Jamco	**8ER69**
5 Shelves and Flat Handle								
1,200 lb	36"	18"	54½"	24½"	63"	9¾"	GA	**1TGV3**
	36"	24"	42¼"	24¼"	55⅝"	9¾"	GA	**1TGV4**
	48"	24"	51⅞"	24¼"	63"	9¾"	GA	**1TGV5**
	60"	30"	66⅜"	30½"	63"	9¾"	GA	**49Y142**
3,000 lb	60"	30"	66⅜"	30½"	63"	12½"	GA	**2TUJ3**
	72"	36"	78"	37"	68"	13"	Jamco	**9LED9**
3,600 lb	48"	30"	53"	30"	65"	12"	Little Giant	**19G702**
6 Shelves and Flat Handle								
3,000 lb	48"	30"	54"	31"	72"	11"	Jamco	**16A949**



Ergonomic Handle
No. 2XJT2

★GA GRAINGER APPROVED Jamco Products

Utility Carts with Lipped and Flush Metal Shelves

The top shelf of these carts has a flush surface, and the other shelves have a short lip on all sides.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and Ergonomic Handle								
1,200 lb	36"	24"	46"	24½"	60"	24¼"	GA	**2XJT2**
3,600 lb	48"	24"	51½"	24½"	51½"	26¾"	GA	**49Y194**
2 Shelves and Flat Handle								
1,200 lb	24"	18"	30"	18"	35"	25"	GA	**19G817**
	32"	18"	38"	24½"	40½"	14"	GA	**9CG29**
	36"	24"	42"	24"	35"	25"	GA	**8AE95**
	48"	24"	54"	24"	35"	25"	GA	**8AE96**
	48"	30"	52½"	30¼"	40½"	26¾"	GA	**8D327**
	60"	30"	66⅜"	30½"	65"	26¾"	GA	**8D331**
3,000 lb	30"	24"	36"	24½"	40½"	23¾"	GA	**9GUG5**
	36"	24"	42½"	24½"	36"	23¾"	GA	**1NFB3**
	48"	30"	51⅞"	30½"	48"	23¾"	GA	**1NFB5**
	60"	30"	66⅜"	30½"	36"	23¾"	GA	**1NFB6**
	60"	36"	66⅜"	36¼"	48"	23¾"	GA	**8NJ07**
	72"	24"	78⅜"	24½"	43½"	23¾"	GA	**16C742**
4,800 lb	30"	24"	36"	25"	38"	25"	Jamco	**16C736**
3 Shelves and Flat Handle								
1,200 lb	24"	18"	30"	24½"	36"	11¼"	GA	**49Y467**
	48"	24"	51⅞"	24¼"	43½"	12½"	GA	**10J381**
3,000 lb	36"	24"	42½"	24½"	48"	12½"	GA	**49Y136**
	48"	24"	51⅞"	24½"	39"	12½"	GA	**4DKT1**
	48"	30"	51⅞"	30½"	45½"	12½"	GA	**49Y138**
	60"	30"	66⅜"	30½"	48"	12½"	GA	**4DKT3**



No. 52CL52

★WESTWARD

Utility Carts with Lipped and Single-Side Flush Metal Shelves

The top shelf of these carts is flush on one side and has a short lip on the other three sides. The carts' lower shelves have a short lip on all four sides. All have 2 rigid and 2 swivel casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
2 Shelves and Flat Handle							
1,200 lb	48"	24"	54½"	24½"	34"	26¾"	**52CL51**
3 Shelves and Flat Handle							
1,200 lb	36"	24"	52½"	24½"	42"	12½"	**52CL52**



2 Shelves w/ Ergonomic Handle
No. 16C059



2 Shelves w/ Flat Handle
No. 2GMH6



3 Shelves w/ Flat Handle
No. 16C411

Jamco carts ★GA GRAINGER APPROVED LITTLE GIANT StrongHold

Utility Carts with Deep-Lipped Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and Ergonomic Handle								
1,200 lb	30"	18"	36"	19"	35"	16"	Jamco	**16C059**
	30"	18"	36"	19"	35"	22"	Jamco	**16C050**
	30"	24"	36"	25"	35"	16"	Jamco	**16C061**
	48"	24"	54"	25"	35"	16"	Jamco	**16C063**
	48"	24"	54"	25"	35"	22"	Jamco	**16C054**
2,400 lb	36"	18"	42"	19"	35"	22"	Jamco	**16C534**
	48"	24"	54"	25"	35"	22"	Jamco	**16C537**
2 Shelves and Flat Handle								
1,200 lb	30"	18"	36"	24"	36"	18¼"	GA	**2GMH7**
	30"	18"	37½"	20"	38"	25½"	GA	**2GMH5**
	30"	18"	42"	18½"	47"	16½"	GA	**2GMH9**
	30"	24"	36"	25"	35"	16"	Jamco	**16C443**
	36"	18"	42¼"	18"	36"	24¼"	GA	**16D875**
	36"	24"	36"	24½"	34½"	16½"	GA	**2GMH8**
	36"	24"	36½"	24¼"	35½"	11¼"	GA	**49Y518**
	36"	24"	36½"	24¼"	39"	20½"	GA	**49Y521**
	36"	24"	42¼"	24¼"	32"	14¾"	GA	**49Y522**
	36"	24⅛"	39½"	24½"	37½"	25½"	GA	**2GMH6**
	48"	24"	51⅞"	24½"	32"	17¾"	GA	**49Y528**
	48"	24"	53½"	24"	36"	17"	Little Giant	**49Y533**
	48"	24"	54"	25"	35"	16"	Jamco	**16C444**
2,000 lb	24"	36"	24"	36"	40"	26½"	Strong Hold	**40V889**
2,400 lb	30"	18"	36"	19"	36"	22"	Jamco	**16C555**
	30"	24"	36"	25"	36"	22"	Jamco	**16C557**
	36"	18"	42"	19"	36"	22"	Jamco	**16C556**
	48"	24"	54"	25"	36"	22"	Jamco	**16C559**
3,600 lb	30"	18"	36"	18½"	39"	22¾"	GA	**1MDT1**
	30"	18"	36"	18½"	53"	16½"	GA	**2GMJ1**
	36"	24"	36"	24"	35"	16½"	GA	**49Y184**
	36"	24"	38"	24¼"	36"	22¾"	GA	**1MDT2**
	36"	24"	42"	24¼"	39"	18¼"	GA	**49Y176**
	36"	24"	42¼"	24¼"	35"	16½"	GA	**2GMJ2**
	48"	24"	51⅞"	24½"	34"	22¾"	GA	**1MDT3**
	48"	24"	51⅞"	24½"	39"	24¼"	GA	**49Y174**
3 Shelves and Flat Handle								
1,200 lb	30"	18"	36"	19"	35"	9"	Jamco	**16C411**
	36"	24"	42"	25"	35"	9"	Jamco	**16C414**
3,600 lb	30"	18"	37"	24"	36"	10"	GA	**16C545**



★Dayton

Utility Cart with Lipped Guards & Removable Metal Shelf

This cart has a removable top shelf with a flush surface. The cart's lower shelves have lipped guards on all sides.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1,200 lb	36"	24"	36"	24"	55"	18⅛"	**1DE94**

Find More Utility Cart Option Information on pg. 1147.

Jamco carts ★GA GRAINGER APPROVED

Corrosion-Resistant Metal Shelf and Utility Carts

Stainless steel carts resist rusting when used in environments where they will be exposed to frequent cleaning, washdown, or other corrosive materials. They are used in commercial kitchens, food-service facilities, laboratories, medical facilities, cleanrooms, manufacturing plants, marine areas, and similar areas.



Deep Lipped Shelves
No. 16D086



Flush & Single-Sided Flush Shelves
No. 5JNJ3



Lipped Shelves
No. 16C988



Single-Side Flush Shelves
No. 16D065

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Deep Lipped Shelves								
2 Shelves and Ergonomic Handle								
1200 lb.	30"	18"	36"	19"	35"	22"	Jamco	**9NW74**
2 Shelves and Flat Handle								
600 lb.	30"	16"	37"	17"	34"	11¾"	GA	**16D086**
1200 lb.	30"	18"	37"	18"	34"	21⅜"	GA	**2LPN8**
	36"	24"	37"	24¼"	34"	21⅜"	GA	**2LPP1**
	36"	24"	41"	24"	35"	22"	GA	**11A470**
	36"	24"	42"	25"	35"	22"	Jamco	**8PJF4**
Flush & Single-Sided Flush Shelves								
3 Shelves and Flat Handle								
300 lb.	24"	15½"	30½"	17"	34"	(2) 12½"	GA	**5JNJ3**
	27½"	17⅝"	30½"	18½"	35"	(2) 12½"	GA	**5JNJ4**
500 lb.	27½"	18"	31"	19"	33½"	13", 14¼"	GA	**5JNJ6**
	18¾"	16¾"	31"	20"	30⅛"	(2) 10⅜"	GA	**23AR45**
	35¼"	21"	48"	24"	30½"	(2) 14½"	GA	**5JNJ7**
3 Shelves and No Handle Handle								
300 lb.	18⅜"	16⅝"	30½"	18½"	38"	10⅜", 9⅜"	GA	**5JNK4**
1200 lb.	18"	18"	19"	19"	34"	(2) 11"	Jamco	**9K653**
Lipped Shelves								
2 Shelves and Ergonomic Handle								
600 lb.	36"	21½"	36½"	22"	34"	24¾"	GA	**16D069**
1200 lb.	30"	18"	36"	19"	39"	25"	Jamco	**16C988**
	36"	18"	42"	19"	39"	25"	Jamco	**16C989**
	36"	24"	42"	25"	39"	25"	Jamco	**9PMM4**
	48"	24"	54"	25"	35"	25"	Jamco	**8C023**
2 Shelves and Flat Handle								
600 lb.	30"	15¾"	36½"	18½"	33"	21¾"	GA	**16D060**
	36"	21½"	36½"	22"	40"	24¾"	GA	**16D061**
1200 lb.	24"	18"	29"	18"	35"	25"	GA	**11A454**
	36"	18"	41"	18"	35"	25"	GA	**11A458**
	36"	24"	41"	24"	35"	25"	GA	**11A460**
	36"	24"	42"	25"	35"	25"	Jamco	**9WHX2**
	48"	30"	53"	30"	35"	25"	GA	**11A464**
	60"	30"	65"	30"	35"	25"	GA	**11A466**
	36"	18"	36½"	18½"	38"	24⅛"	GA	**1NFD5**
	36"	24"	36½"	24¼"	38"	24⅛"	GA	**1NFD6**
	36"	24"	36½"	24¼"	38"	23¾"	GA	**16D011**
	48"	24"	51⅞"	24½"	38"	24⅛"	GA	**1NFD7**
	60"	30"	66⅜"	30½"	38"	24⅛"	GA	**1NFD9**
3 Shelves and Flat Handle								
1200 lb.	24"	18"	29"	18"	35"	(2) 12"	GA	**11A455**
	24"	18"	30"	19"	35"	(2) 11"	Jamco	**16C937**
	36"	18"	42"	19"	35"	(2) 11"	Jamco	**8PA29**
	36"	24"	42"	25"	35"	(2) 11"	Jamco	**8NDL6**
	48"	24"	54"	25"	35"	(2) 11"	Jamco	**1NFE5**
	48"	24"	54"	25"	35"	(2) 11"	Jamco	**9GF45**
	48"	30"	54"	31"	35"	(2) 11"	Jamco	**16C938**
4 Shelves and Flat Handle								
1200 lb.	48"	24"	51⅞"	24½"	38"	(3) 12½"	GA	**16C950**
Single-Side Flush Shelves								
2 Shelves and Flat Handle								
600 lb.	24"	16"	28"	16½"	34"	25"	GA	**16D063**
	36"	21½"	39"	22"	40"	24¾"	GA	**16D065**
	30"	15⅝"	36 7/16"	16¾"	40"	21⅜"	GA	**16D064**
	48"	21½"	51⅞"	22"	36"	24¾"	GA	**16D066**
700 lb.	27"	18"	35"	18½"	36"	17"	GA	**5JNJ8**
	24"	15½"	36"	18½"	41"	17"	GA	**5JNK2**
1200 lb.	24"	18"	38½"	18½"	38"	24⅛"	GA	**16C971**
	30"	18"	38½"	18½"	35"	26⅛"	GA	**8CPJ8**
	36"	24"	42½"	24¼"	38"	24⅛"	GA	**16C974**
	48"	24"	51⅞"	24½"	56"	24⅛"	GA	**16C975**
3 Shelves and Flat Handle								
600 lb.	30"	15⅝"	63"	18½"	40"	(2) 11¾"	GA	**16D076**
	24"	15⅝"	30 7/16"	16¾"	34"	(2) 11"	GA	**16D075**
	24"	16"	38½"	18½"	38"	(2) 11¾"	GA	**5JNJ5**
	36"	21½"	42½"	22½"	40"	(2) 11¾"	GA	**16D077**
	48"	21½"	51⅞"	22"	36"	(2) 11¾"	GA	**16D078**
1200 lb.	48"	24"	54"	25"	35"	(2) 10"	Jamco	**16C999**
	48"	30"	54"	31"	35"	(2) 10"	Jamco	**16D001**
	30"	18"	42½"	18½"	38"	(2) 11¼"	GA	**16C996**
	36"	24"	42½"	24¼"	33"	(2) 11¼"	GA	**16C998**
	60"	30"	66⅜"	30½"	40½"	(2) 11¼"	GA	**16D002**



No. 2XJW3

★GA GRAINGER APPROVED

Easy-Access Metal Shelf and Utility Carts

Easy-access metal shelf and utility carts have central pillars that support the top shelf at the front and back of the carts rather than the corners. This lets users load and unload items on the carts' bottom shelf more easily than they could on a cart with four corner supports. The carts have a flush top shelf and lipped bottom shelves.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1200 lb.	24"	18"	42"	18½"	41"	24⅞"	**2XJW1**
	32"	18"	36"	18½"	41"	24⅞"	**2XJW2**
	36"	18"	42"	18½"	36"	24⅞"	**49Y165**
	36"	24"	36"	24"	35"	24⅞"	**2XJW3**



No. 16C236

GA GRAINGER APPROVED

Metal Shelf and Utility Carts with Ventilated Walls

Metal mesh walls surround the top shelf on these carts to provide maximum protection against items falling off the shelf while the carts are moving. The mesh walls also allow air to flow through them for ventilation and let users see items on the shelf. The carts have a lipped bottom shelf.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1400 lb.	30"	18"	42"	24½"	37½"	14"	**16C236**
	30"	24"	36"	24½"	37½"	14"	**16C238**
3600 lb.	48"	24"	51⅞"	24½"	39½"	14"	**16C245**



Perforated Shelves
No. 19C138



Corrosion-Resistant Slotted Shelves
No. 12G993

GA GRAINGER APPROVED LITTLE GIANT

Flow-Through Metal Shelf and Utility Carts

These flow-through utility carts have metal shelves with openings that let debris and liquid fall through them, which helps keep the carts clean when used in dirty or wet areas. **Perforated** shelves have small holes. **Slotted** shelves have long vertical openings.

No. of Shelves	Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Perforated Lipped Shelves									
2	1000 lb.	36"	24"	42¼"	24¼"	34½"	18⅛"	GA	**19C185**
	1000 lb.	48"	24"	51⅞"	24½"	30½"	18⅛"	GA	**19C186**
	1200 lb.	36"	24"	42¼"	24¼"	21½"	24¼"	GA	**19G831**
	1200 lb.	36"	24"	42¼"	24¼"	32½"	18⅛"	GA	**19G878**
3	1200 lb.	60"	30"	66¼"	30¼"	63"	(2) 24⅝"	GA	**19C135**
4	1600 lb.	60"	30"	65½"	30"	63"	(3) 16"	Little Giant	**19C137**
5	2000 lb.	48"	24"	51⅞"	24½"	63"	(4) 11⅜"	GA	**19C138**
	2000 lb.	60"	30"	65½"	30"	63"	(4) 11½"	Little Giant	**19C139**
Corrosion-Resistant Slotted Flush Shelves									
2	600 lb.	41"	19"	47"	19"	47½"	29"	GA	**414X83**
	1000 lb.	41"	19"	48"	19"	42"	20"	GA	**12G993**

Easy Access & Load w/ Tube Frame
No. 16C390



Lipped & Flush Shelves w/ Raised Handle
No. 16C842



Lipped Shelves w/ Raised Handle
No. 49Y596



GA GRAINGER APPROVED Jamco carts LITTLE GIANT

Low-Profile Metal Shelf and Utility Carts

The top shelf on these carts is set at a lower height than other styles of metal shelf and utility carts. This reduces how far bulky or heavy items must be lifted when loading them onto the top shelf. **Easy access and load** carts have two rear corner posts and a front central pillar that support the carts' top shelf and reduce obstructions when moving items onto or off of the carts. They also have flush tube shelves that let items slide onto or off of the shelves and allow dirt and debris to fall through the spaces between the tubes.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Easy Access & Load Carts with Tube Frame								
2 Shelves and Raised Handle								
1400 lb.	36"	18"	42½"	24½"	39"	17⅜"	GA	**16C390**
	36"	24"	42½"	24½"	36"	17⅜"	GA	**9AKU3**
	48"	18"	51⅞"	24½"	35½"	17⅜"	GA	**16C391**
	48"	24"	54½"	24½"	36"	17⅜"	GA	**8DLD3**
Lipped & Flush Shelves								
2 Shelves and Raised Handle								
1200 lb.	24"	18"	43"	25½"	34"	13⅛"	GA	**49Y588**
	24"	18"	43"	25½"	34"	13¼"	GA	**49Y595**
	30"	18"	43"	25½"	34"	20"	GA	**16C180**
	30"	24"	31"	25"	37"	17"	Jamco	**8EN38**
	32"	18"	43"	25½"	34"	13⅛"	GA	**10F443**
	36"	18"	36"	23"	40½"	20"	GA	**16C181**
	36"	24"	39"	25½"	34"	16¾"	GA	**16C804**
	36"	24"	40"	24"	36"	17"	GA	**10F444**
	36"	24"	43"	25½"	31"	16¾"	GA	**4YW64**
	36"	24"	43"	25½"	35½"	16¾"	GA	**4YW68**
	36"	24"	44"	25½"	35½"	20"	GA	**16C182**
	48"	24"	51⅞"	26"	39"	13⅛"	GA	**10F445**
	48"	24"	51⅞"	30½"	34½"	16¾"	GA	**16C805**
	48"	30"	51⅞"	30½"	30"	13⅛"	GA	**10F446**
	60"	24"	66"	25"	43"	17"	Jamco	**16C806**
	60"	30"	66⅜"	30½"	38"	13⅛"	GA	**10F447**
1400 lb.	30"	18"	43"	25½"	35½"	16¾"	GA	**8EK82**
	36"	24"	43"	25½"	35½"	16¾"	GA	**8WC16**
	36"	30"	48"	30½"	34½"	16¾"	GA	**16C770**
	48"	24"	51⅞"	26"	39"	16¾"	GA	**16C787**
	48"	30"	51⅞"	30¼"	31"	16¾"	GA	**4YW73**
	72"	30"	78⅜"	30⅜"	34"	16¾"	GA	**16C773**
2400 lb.	30"	24"	36"	25"	40"	17"	Jamco	**16C835**
	36"	30"	42"	31"	40"	17"	Jamco	**16C840**
	48"	24"	54"	25"	40"	17"	Jamco	**16C837**
	48"	30"	54"	31"	40"	17"	Jamco	**16C841**
	60"	30"	66"	31"	40"	17"	Jamco	**16C842**
4800 lb.	30"	24"	36"	25"	42"	17"	Jamco	**16C824**
	48"	36"	54"	37"	42"	17"	Jamco	**16C833**
3 Shelves and Raised Handle								
1400 lb.	36"	24"	43"	25½"	39⅝"	(2) 7⅝"	GA	**4DKP9**
4800 lb.	60"	30"	66⅜"	30½"	40"	(2) 9⅛"	GA	**4DKT7**
Lipped Shelves								
2 Shelves and Raised Handle								
1200 lb.	32"	18"	39"	30½"	40"	13¼"	GA	**10F448**
	36"	24"	39"	30½"	40"	16¾"	GA	**49Y596**
	48"	24"	51"	24"	40½"	11½"	Little Giant	**49Y598**
	48"	24"	54½"	30½"	30"	13¼"	GA	**10F450**
	48"	30"	54½"	30½"	39"	13¼"	GA	**10F451**
	60"	30"	66⅜"	30½"	38"	13¼"	GA	**10F452**
	60"	30"	66⅜"	30½"	36"	16¾"	GA	**49Y171**

Find More Utility Cart Option Information on pg. 1147.



Deep Lipped Shelves w/ Flat Handle No. 49Y526



Lipped Shelves w/ Flat Handle No. 49Y480

LITTLE GIANT · GA GRAINGER APPROVED · Jamco carts

Order-Picking Metal Shelf and Utility Carts

The flat surface near the handle of these carts holds documents for note-taking, inventory, and similar tasks. Order-picking utility carts are used in settings such as manufacturing plants, stock rooms, warehouses, and distribution centers.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Deep Lipped Shelves								
2 Shelves and Flat Handle								
3600 lb.	48"	24"	64"	24"	42½"	15½"	Little Giant	**49Y526**
	48"	24"	64"	24"	42½"	16½"	Little Giant	**49Y532**
Flush Shelves								
5 Shelves and Flat Handle								
3600 lb.	36"	24"	52"	24"	63½"	(4) 12"	Little Giant	**19G704**
	48"	24"	64"	24"	63½"	(4) 12"	Little Giant	**19G705**
Lipped & Flush Shelves								
2 Shelves and Flat Handle								
1200 lb.	32"	18"	54½"	30½"	38"	24⅛"	GA	**19G827**
	48"	24"	54½"	30½"	38"	24⅛"	GA	**8AHD3**
3 Shelves and Flat Handle								
1200 lb.	32"	18"	48"	18"	40"	(2) 11¾"	Little Giant	**19G677**
	48"	24"	54½"	30½"	39"	(2) 11¼"	GA	**49Y472**
Lipped Shelves								
2 Shelves and Flat Handle								
1200 lb.	36"	18"	54½"	30½"	38½"	26¾"	GA	**16D880**
	36"	24"	54½"	30½"	38½"	26¾"	GA	**49Y144**
	36"	24"	54½"	30½"	48"	24⅛"	GA	**8WPP2**
	36"	24"	54½"	30½"	56"	24⅛"	GA	**8XAF3**
	36"	24"	64"	24"	39"	18"	Little Giant	**49Y558**
	36"	30"	51"	31"	39"	25"	Jamco	**16C798**
	48"	24"	63"	30½"	36"	26¾"	GA	**49Y145**
	48"	24"	64"	24"	39"	18"	Little Giant	**49Y562**
	48"	30"	63"	31"	39"	25"	Jamco	**8ELY3**
	60"	30"	66⅜"	30½"	41"	26¾"	GA	**16D883**
3600 lb.	36"	24"	39"	30½"	44"	21⅜"	GA	**49Y520**
3 Shelves and Flat Handle								
1200 lb.	30"	18"	45"	19"	39"	(2) 12"	Jamco	**16C416**
	32"	18"	39"	30½"	41"	(2) 11¼"	GA	**49Y476**
	36"	24"	54½"	30½"	45"	(2) 12⅜"	GA	**49Y147**
	48"	24"	51"	30½"	36"	(2) 12⅜"	GA	**49Y148**
	48"	24"	64"	24"	40"	(2) 12"	Little Giant	**49Y480**
	48"	30"	51⅞"	30½"	41"	(2) 12⅜"	GA	**16C425**
	48"	30"	63"	31"	39"	(2) 12"	Jamco	**16C422**
3000 lb.	36"	24"	39"	30½"	37½"	(2) 17⅛"	GA	**8EP55**
	48"	30"	87½"	30½"	41"	(2) 17⅛"	GA	**16A953**
	60"	24"	63"	30½"	36"	(2) 17⅛"	GA	**8TY70**
3600 lb.	60"	30"	78½"	30½"	43½"	(2) 17⅛"	GA	**19G686**
4 Shelves and Flat Handle								
3000 lb.	36"	24"	51"	30½"	60"	(3) 14¾"	GA	**16C002**
	48"	24"	63"	30½"	37½"	(3) 14¾"	GA	**16C003**
	48"	30"	54½"	30½"	36"	(3) 14¾"	GA	**16C007**
3600 lb.	48"	24"	64"	24"	65"	(3) 16½"	Little Giant	**19G692**
	60"	30"	66⅜"	30½"	45½"	(3) 16½"	GA	**19G694**
5 Shelves and Flat Handle								
3000 lb.	48"	24"	54"	25"	68"	(4) 13"	Jamco	**16C079**
	72"	24"	78⅜"	24½"	63"	(4) 12⅜"	GA	**16C081**



Flush Shelves w/ Flat Handle No. 49Y608



Lipped Shelves w/ Flat Handle No. 49Y566



Low-Profile w/ Flush Shelves & Raised Handle No. 16A867

Metal Shelf and Utility Carts for Instruments

GA GRAINGER APPROVED · LITTLE GIANT

The shock-absorbing casters and cushioned shelf matting on these carts absorb shock and vibration, which helps protect instruments and delicate, vibration-sensitive equipment on the carts from damage when moving them in laboratories, testing facilities, and similar areas. The matting also has a nonslip surface that stops items from sliding on the shelves and colliding with each other. Also known as instrument carts. **Low-profile** carts have a top shelf that is set at a lower height than other carts to reduce how far bulky or heavy items must be lifted when loading them onto the top shelf.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Flush Shelves								
2 Shelves and Flat Handle								
1000 lb.	36"	24"	48"	30½"	39½"	14⅜"	GA	**49Y603**
	36"	24"	54½"	36½"	36"	18⅞"	GA	**49Y610**
	36"	24"	66½"	30½"	39"	14⅜"	GA	**49Y605**
	36"	24"	66½"	30½"	60"	20⅝"	GA	**20HK74**
	36"	24"	66½"	36½"	36"	18⅞"	GA	**49Y609**
	36"	24"	66½"	36½"	48"	25¼"	GA	**49Y608**
	36"	24"	75"	36½"	40"	18⅞"	GA	**49Y607**
1200 lb.	30"	18"	66½"	30½"	45"	21⅛"	GA	**16A804**
	36"	24"	66½"	30½"	41"	21⅛"	GA	**49Y550**
	36"	24"	66½"	30½"	68"	21⅝"	GA	**16C856**
	36"	24"	66½"	36½"	43½"	20⅜"	GA	**49Y232**
	48"	24"	53½"	24"	38"	19½"	Little Giant	**49Y544**
	48"	30"	53½"	30"	38"	19½"	Little Giant	**49Y548**
2 Shelves and No Handle Handle								
1200 lb.	36"	30"	66"	30½"	35"	21⅛"	GA	**16A861**
	48"	24"	48"	24"	34"	19½"	Little Giant	**49Y577** *
3 Shelves and Flat Handle								
1200 lb.	36"	24"	66½"	30½"	48"	(2) 15⅛"	GA	**49Y456**
Lipped Shelves								
2 Shelves and Flat Handle								
1200 lb.	36"	24"	41½"	24"	34"	18"	Little Giant	**49Y566**
	36"	24"	78½"	36½"	56"	18¼"	GA	**49Y557**
	48"	24"	53½"	24"	34"	18"	Little Giant	**49Y568**
	48"	24"	72"	36½"	36"	18¼"	GA	**49Y561**
3 Shelves and Flat Handle								
1200 lb.	36"	24"	48"	36½"	37½"	(2) 14⅜"	GA	**49Y462**
	36"	24"	72"	36½"	37½"	(2) 21⅛"	GA	**4YW83**
Low-Profile with Flush Shelves								
2 Shelves and Raised Handle								
1200 lb.	30"	18"	63½"	30½"	41"	16¾"	GA	**16A867**
	36"	24"	63½"	30½"	51½"	16¾"	GA	**16A869**
Low-Profile with Lipped & Flush Shelves								
2 Shelves and Flat Handle								
1200 lb.	48"	24"	51"	24"	40½"	11½"	Little Giant	**49Y592**
2 Shelves and Raised Handle								
1200 lb.	36"	24"	66½"	30½"	39"	16¾"	GA	**4YW79**
	36"	24"	66½"	30½"	66½"	16¾"	GA	**8RRM5**
	48"	24"	54½"	24½"	34"	16¾"	GA	**8Z416**
	48"	24"	66½"	30½"	36"	16¾"	GA	**4YW80**
	48"	30"	55"	30¼"	34"	16¾"	GA	**4YW81**
	48"	30"	66½"	30½"	36"	16¾"	GA	**49Y594**
	60"	30"	66½"	30½"	38"	16¾"	GA	**8Y153**
Low-Profile with Lipped Shelves								
1200 lb.	36"	24"	66½"	30½"	38"	16¾"	GA	**49Y597**
	48"	24"	51"	24"	40½"	11½"	Little Giant	**49Y599**
	48"	30"	51"	30"	40½"	11½"	Little Giant	**49Y602**

** 4 swivel casters.*

Lipped Shelves w/ 2 U-Shaped Handles No. 4EY10





Flush Shelves w/ 2 U-Shaped Handles No. 4ZD40



Corrosion-Resistant Lipped Shelves w/ Raised Handle No. 459V60

Vertical-Access Metal Shelf and Utility Carts

GA GRAINGER APPROVED · Vestil

The built-in ladder on these carts can be used for reaching high areas in warehouses, stock rooms, and similar locations. Also known as stock-picker trucks or ladder trucks, vertical-access carts save workers from having to carry or move a separate ladder for their work. The ladder has a spring-loaded mechanism that prevents the cart or ladder from moving when a worker is on the ladder. This mechanism also raises the ladder and allows the cart to roll when the ladder is not in use.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Lipped Shelves								
2 Shelves and (2) U-Shaped Handle								
1000 lb.	35⅝"	21⅝"	40"	22"	50½"	28"	GA	**4ZD41**
	47⅝"	27⅝"	52"	28"	50½"	28"	Vestil	**4ZD43**
3 Shelves and (2) U-Shaped Handle								
1000 lb.	35¾"	21⅜"	40"	22"	50½"	13½"	GA	**4ZD44**
	50¾"	27½"	56½"	28"	73½"	27"	GA	**4EY10**
Flush Shelves								
2 Shelves and (2) U-Shaped Handle								
440 lb.	41"	20½"	41½"	20½"	41"	28¼"	GA	**4ZD40**
Corrosion-Resistant Lipped Shelves								
2 Shelves and Raised Handle								
800 lb.	35", 36", 41"	22"	51½"	22"	69½"	12¹¹⁄₁₆"	GA	**459V61**
	36", 41"	22"	51½"	22"	69½"	12⅝"	GA	**459V60**
3 Shelves and (2) U-Shaped Handle								
660 lb.	35⅝"	21⅜"	40"	22"	50½"	13½"	GA	**4EU98**

Find More Utility Cart Option Information on pg. 1147.

METRO GA GRAINGER APPROVED

Steel Wire Shelf Carts

- Shipped unassembled
- 4 adjustable shelves

Overall W	Overall D	Overall H	Brand	CHROME PLATED Item No.	ZINC PLATED Item No.	BLACK POWDER COATED Item No.	WHITE POWDER COATED Item No.
600-lb. Load Capacity; (2) Swivel, (2) Swivel with Brakes Casters							
36 in	18 in	67 ⅞ in	Metro	45TY48	—	—	—
	18 in	68 in	GA	3TPA3	3TPC2	3TPD3	3TPE4
	24 in	68 in	GA	3TPV6	3TPC5	3TPD6	3TPE7
48 in	18 in	67 ⅞ in	Metro	45TY47	—	—	—
	18 in	68 in	GA	3TPA4	3TPC3	3TPD4	3TPE5
	18 in	69 in	GA	1ECH6	2HDK9	—	—
	24 in	68 in	GA	3TPA5	3TPC6	3TPD7	3TPE8
	24 in	69 in	GA	1ECH9	—	—	—
60 in	18 in	68 in	GA	3TPV5	3TPC4	3TPD5	3TPE6
	24 in	68 in	GA	3TPA6	3TPC7	3TPD8	3TPE9
	24 in	69 in	GA	1ECJ1	—	—	—
900-lb. Load Capacity; (4) Swivel Casters							
48 in	24 in	67 ⅞ in	Metro	45TY54	—	—	—
60 in	18 in	67 ⅞ in	Metro	45TY50	—	—	—
72 in	18 in	67 ⅞ in	Metro	45TY49	—	—	—
	24 in	67 ⅞ in	Metro	45TY53	—	—	—
1200-lb. Load Capacity; (4) Swivel Casters							
36 in	18 in	70 in	GA	2HDE5	2HDG7	2HDJ9	—
	24 in	70 in	GA	2HDE9	—	2HDK4	—
48 in	18 in	70 in	GA	2HDE6	—	—	—
	24 in	70 in	GA	2HDF1	2HDH3	2HDK5	—
60 in	18 in	70 in	GA	2HDE7	—	—	—
	24 in	70 in	GA	2HDF2	—	2HDK6	—
72 in	18 in	70 in	GA	2HDE8	—	—	—
	24 in	70 in	GA	2HDF3	2HDH5	2HDK7	—



Chrome-Plated
No. 3TPA6



Black
Powder-Coated
No. 2HDK7

Overall W	Overall D	Overall H	Brand	STAINLESS STEEL Item No.
1200-lb. Load Capacity; (4) Swivel Casters				
36 in	18 in	69 in	GA	45TW17
	24 in	69 in	GA	45TW20
48 in	18 in	69 in	GA	45TW18
	24 in	69 in	GA	45TW21
60 in	18 in	69 in	GA	45TW19
	24 in	69 in	GA	45TW22

METRO We put space to work. GA GRAINGER APPROVED

Wire Shelf and Utility Carts

Wire shelves let dust and debris fall through and away from them, which helps keep them clean. Air can circulate through the shelves for ventilation, and users can see through the shelves to view their contents. All carts have four swivel casters, except as noted. **Heavy-duty** shelves are supported by square corner posts and can hold more weight than shelves that are supported with round corner posts.

Load Capacity	Overall L	Overall W	Overall H	Brand	CHROME Item No.	ZINC PLATED Item No.	BLACK POWDER COATED Item No.
Deep & Shallow Lipped Shelves							
2 Shelves and (2) Raised Handles							
375 lb	36 in	18 in	38 in	Metro	45TY52 *	—	—
3 Shelves and Flat Handle							
225 lb	24 in	14 in	34 in	GA	—	—	450W92 *
Deep Lipped Shelves							
2 Shelves and (2) Raised Handles							
375 lb	36 in	18 in	38 in	Metro	45TY51 *	—	—
800 lb	36 in	18 in	39 in	Metro	8PER9	—	—
Shallow Lipped Shelves							
2 Shelves and (2) Raised Handles							
350 lb	41 in	18 in	39 in	GA	3TNZ8 *	3TPA7 *	3TPC8 *
	41 in	24 in	39 in	GA	3TPA1 *	—	3TPD1 *
	53 in	18 in	39 in	GA	3TNZ9 *	—	3TPC9 *
	53 in	24 in	39 in	GA	3TPA2 *	—	3TPD2 *
375 lb	26 in	18 in	38 in	Metro	20W640	—	—
	38 in	21 in	39 in	Metro	20W645	—	—
	38 in	24 in	39 in	Metro	20W647	—	—
400 lb	36 in	18 in	40 in	GA	—	16A689	—
600 lb	30 in	18 in	39 in	Metro	2KTE1	—	—
	30 in	24 in	39 in	Metro	2KTE3	—	—
	36 in	18 in	39 in	Metro	4W648	—	—
	36 in	24 in	39 in	Metro	4W650	—	—
	37 in	18 in	39 in	GA	1ECJ2	—	2HDN6 †
	37 in	24 in	39 in	GA	1ECJ4	—	2HDN8 †
	48 in	18 in	39 in	Metro	4W649	—	—
	48 in	24 in	39 in	Metro	4W651	—	—
	49 in	18 in	39 in	GA	1ECJ3	—	2HDN7 †
	49 in	24 in	39 in	GA	1ECJ5	2HDL8 †	2HDN9 †
	54 in	18 in	39 in	Metro	2KTE2	—	—
	54 in	24 in	39 in	Metro	2KTE4	—	—
	60 in	24 in	39 in	Metro	8Z509	—	—
2 Shelves and No Handle							
900 lb	36 in	24 in	39 in	Metro	3JHN7	—	—
3 Shelves and (2) Raised Handles							
375 lb	38 in	18 in	38 in	Metro	20W652	—	—
	38 in	21 in	39 in	Metro	20W653	—	—
	38 in	24 in	39 in	Metro	20W655	—	—
400 lb	48 in	24 in	40 in	GA	—	16A688	—
600 lb	36 in	18 in	39 in	Metro	3JKY6	—	—
Heavy-Duty with Flush Shelves							
2 Shelves and (2) Raised Handles							
800 lb	39 ½ in	18 in	42 in	GA	2HDD2	—	2HDH6
	39 ½ in	24 in	42 in	GA	2HDD5	2HDF7	2HDH9
	51 ½ in	18 in	42 in	GA	2HDD3	—	2HDH7
	51 ½ in	24 in	42 in	GA	2HDD6	2HDF8	2HDJ1
	63 ½ in	24 in	42 in	GA	2HDD7	—	2HDJ2
3 Shelves and (2) Raised Handles							
1,200 lb	63 ½ in	24 in	42 in	GA	—	—	2HDJ8
800 lb	39 ½ in	18 in	42 in	GA	2HDD8	2HDG1	2HDJ3
	39 ½ in	24 in	42 in	GA	2HDE2	2HDG4	—
	51 ½ in	18 in	42 in	GA	2HDD9	—	—
	51 ½ in	24 in	42 in	GA	2HDE3	—	2HDJ7

** 2 swivel casters, 2 swivel casters with brake.*
† 2 swivel casters with brake, 2 rigid casters.



Deep & Shallow
Lipped, Black
No. 450W92



Deep Lipped,
Chrome
No. 45TY51



Shallow Lipped,
Chrome
No. 3JKY6



Heavy-Duty w/
Flush, Black
No. 2HDJ3



2 Shelves, Stainless Steel No. 45TW16



3 Shelves, Chrome No. 20W636

METRO We put space to work. QUANTUM™ STORAGE SYSTEMS

Corrosion-Resistant Wire Shelf and Utility Carts

These carts are made from stainless steel or a combination of stainless steel and chrome. They resist rusting when used in areas where they will be exposed to frequent cleaning, washdown, or other corrosive materials. The carts have wire shelves with a shallow lip and do not require objects to be lifted very far to put them onto or take them off of the shelves. The shelves' height can be adjusted in 1" increments to accommodate different sizes of items. All have 4 swivel casters, except as noted.

Load Capacity	Overall L	Overall W	Overall H	Finish	Brand	Item No.
2 Shelves and (2) Raised Handles						
375 lb.	26"	18"	38"	Stainless Steel	Metro	**20W641**
	37½"	20"	38"	Stainless Steel	Metro	**6GJY3**
1200 lb.	36"	18"	37½"	Stainless Steel	Quantum	**45TW13** *
	36"	24"	37½"	Stainless Steel	Quantum	**45TW15** *
	48"	18"	37½"	Stainless Steel	Quantum	**45TW14** *
	48"	24"	37½"	Stainless Steel	Quantum	**45TW16** *
3 Shelves and (2) Raised Handles						
375 lb.	26"	18"	38"	Stainless Steel	Metro	**20W649**
	32"	18"	38"	Stainless Steel	Metro	**20W651**
	32"	18"	38"	Chrome	Metro	**20W636**
	38"	18"	38"	Chrome	Metro	**20W637**
	38"	21"	39"	Chrome	Metro	**20W638**
	37½"	26"	39"	Stainless Steel	Metro	**6GJY6**

(2) swivel casters, (2) swivel casters w/ brake.



GRAINGER APPROVED **No. 33Y360**



No. 33Y379

Wire Shelf and Utility Cart Covers

Covers fit over carts to protect their contents from dust and other airborne particles. They also conceal the carts' contents to maintain an attractive appearance and deter theft or tampering. **Hook-and-loop** closure fastens and unfastens quickly. **Zipper** closure is more secure than hook-and-loop closure. **Blue nylon** covers are made from waterproof, fire-retardant vinyl-coated nylon fabric, which resists tearing, mildew, and odors. **White vinyl** covers resist tears and are antimicrobial, which means they inhibit the growth of bacteria and other organisms that can cause odors and stains.

Overall Length	Overall Width	Overall Height	BLUE NYLON Item No.	WHITE VINYL Item No.
Hook-and-Loop Closure				
48"	18"	54"	**33Y355**	**33Y371**
		62"	**33Y356**	**33Y372**
		74"	**33Y357**	**33Y373**
		86"	**33Y358**	**33Y374**
	24"	54"	**33Y359**	**33Y375**
		62"	**33Y360**	**33Y376**
		74"	**33Y361**	**33Y377**
		86"	**33Y362**	**33Y378**

Overall Length	Overall Width	Overall Height	BLUE NYLON Item No.	WHITE VINYL Item No.
Zipper Closure				
48"	18"	54"	**33Y363**	**33Y379**
		62"	**33Y364**	**33Y380**
		74"	**33Y365**	**33Y381**
		86"	**33Y366**	**33Y382**
	24"	54"	**33Y367**	**33Y383**
		62"	**33Y368**	**33Y384**
		74"	**33Y369**	**33Y385**
		86"	**33Y370**	**33Y386**

GRAINGER APPROVED METRO We put space to work.

Wire Shelf and Utility Carts with Angled Shelves

Angled wire shelves make it easier to see items on the shelves than on flat shelves. Gravity moves items at the back of the shelves forward when items at the front of the shelves are removed. The shelves have a short lip on one side and a tall lip on the other side that prevent items from falling off. The shelves can be reversed to put either the short or tall lip at the front. Shelf height can be adjusted in 1" increments to fit different sizes of items. All have four shelves and four swivel casters (two of the casters have brakes).



No. 1EVG6

Load Capacity	Overall L	Overall W	Overall H	Finish	Brand	Item No.
300 lb.	36"	18½"	68"	Zinc Plated	GA	**1EVG4**
	60"	18½"	68"	Zinc Plated	GA	**1EVG6**
600 lb.	48"	18"	78"	Chrome	Metro	**45TY55**

GRAINGER APPROVED

Wire Shelf and Utility Cart with Removable Basket Shelves

This cart has two removable wire baskets that sit on the cart's shelves and hold loose items. The cart's shelves have a short lip that stops the baskets from sliding off. A hanger rod holds clothing or other hanging items. Shelf height can be adjusted in 1" increments to accommodate different sizes of items. Cart has two swivel and two rigid casters.



Load Capacity	Overall L	Overall W	Overall H	Item No.
300 lb.	36"	18"	41"	**16A710**

METRO We put space to work.

Quick-Release Super Adjustable Carts™

- 4-shelves
- Shipped unassembled
- 600-lb. load capacity
- 4 swivel casters (2 with brake)

Choose from carts with four quick-release shelves or two quick-release shelves and two standard adjustable shelves.



Quick Release



No. 2EWR3

Overall Width	Overall Depth	Overall Height	Item No.
4-Shelf Cart with 2-Quick Adjust Shelves			
36"	18"	67⅞"	**2EWR4**
	24"	67⅞"	**2EWT1**
48"	18"	67⅞"	**2EWR6**
	24"	67⅞"	**2EWT3**
60"	18"	67⅞"	**2EWR8**
	24"	67⅞"	**2EWT5**
4-Shelf Cart with 4-Quick Adjust Shelves			
36"	18"	67⅞"	**2EWR3**
	24"	67⅞"	**2EWR9**
48"	18"	67⅞"	**2EWR5**
	24"	67⅞"	**2EWT2**
60"	18"	67⅞"	**2EWR7**
	24"	67⅞"	**2EWT4**

Find More Utility Cart Option Information on pg. 1147.



Adjustable Shelves
No. 16A690



Removable Shelves
No. 49VU09

GA GRAINGER APPROVED METRO We put space to work. SUMNER A Sentinel Company

Wire Security Carts

Wire security carts are rolling wire cages with doors that lock for secure storage. They are lighter and allow users to see items on the carts more easily than welded mesh security carts. The wire mesh walls and doors let air circulate through the carts and allow dirt and dust to fall through them, which helps keep them clean.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
Fixed Shelves								
5 in-dia. Polypropylene Wheels, (2) Rigid, (2) Swivel								
900 lb	60 in	24 in	64 in	28 ½ in	68 in	2	GA	**1ECH1**
1,800 lb	48 ½ in	24 in	48 ½ in	24 in	71 in	1	GA	**1ECG6**
Adjustable Shelves								
5 in-dia. Polyurethane Wheels, (2) Swivel, (2) Swivel with Brake								
900 lb	36 in	18 in	41 in	21 ½ in	68 ½ in	2	Metro	**20W743**
	36 in	30 in	41 in	33 ½ in	68 ½ in	2	Metro	**2HEF7**
	48 in	24 in	50 ½ in	28 in	68 ½ in	2	Metro	**20W750**
	60 in	24 in	63 ½ in	28 in	68 ½ in	2	Metro	**20W751**
	60 in	30 in	65 in	33 ½ in	68 ½ in	2	Metro	**2HEF9**
5 in-dia. Polyurethane Wheels, (4) Swivel								
900 lb	36 in	24 in	41 in	27 ½ in	68 in	2	Metro	**3W570**
	48 in	24 in	53 in	27 ½ in	68 in	2	Metro	**3W571**
	60 in	24 in	65 in	27 ½ in	68 ½ in	2	Metro	**4ZJ44**
5 in-dia. Thermoplastic Rubber Wheels, (4) Swivel								
1,000 lb	48 in	24 in	52 in	27 in	69 in	4	GA	**16A690**
Removable Shelves								
6 in-dia. Nylon Wheels, (2) Rigid, (2) Swivel with Brake								
1,500 lb	30 in	24 ½ in	63 ½ in	34 in	58 in	4	Sumner	**49VU08**
6 in-dia. Nylon Wheels, (2) Swivel, (2) Swivel with Brake								
1,500 lb	30 in	24 ½ in	34 in	31 ½ in	58 in	4	Sumner	**49VU10**
	30 in	24 ½ in	51 ½ in	34 in	58 in	4	Sumner	**49VU09**



Louvered Panels
No. 5LVF6



Adjustable Shelves
No. 8EHF0

GA GRAINGER APPROVED DURHAM MFG Est. 1922 LITTLE GIANT

Welded Mesh Security Carts

The welded steel mesh doors and/or walls on these carts have small openings that let air circulate through them and keep items on the carts visible. The carts' doors have a latch or hasp that can be locked with a padlock or other locking device to secure the carts' contents. All carts have two swivel and two rigid casters. **Louvered panels** hold compatible bins for organizing and storing small parts.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
Adjustable Shelves								
6 in-dia. Polyurethane Wheels								
2,000 lb	57 ⅞ in	26 ⅞ in	66 ½ in	32 in	56 ½ in	1	GA	**8EHF0**
6 in-dia. Phenolic Wheels								
2,000 lb	45 ⅞ in	20 ⅞ in	54 ½ in	26 in	56 ½ in	2	GA	**9WHD0**
	57 ⅞ in	20 ⅞ in	66 ½ in	26 in	56 ½ in	2	GA	**8RRU5**
	57 ⅞ in	26 ⅞ in	66 ½ in	32 in	56 ½ in	2	Durham Mfg	**8EKJ9**
10 in-dia. Rubber Wheels								
1,500 lb	48 in	24 in	49 in	27 in	60 in	2	Little Giant	**49Y677**
	48 in	30 in	49 in	33 in	60 in	2	Little Giant	**49Y679**
	60 in	24 in	61 in	27 in	60 in	2	Little Giant	**49Y678**
Dual-Side-Access Louvered Panels								
6 in-dia. Phenolic Wheels								
2,000 lb	48 in	24 in	48 in	24 in	36 in	1	Durham Mfg	**5LVF6**



Adjustable Shelves
No. 5LVU4



Fixed Shelves
No. 2CFN2

GA GRAINGER APPROVED LITTLE GIANT

Single-Side-Access Mesh-Wall Metal Stock Trucks

Mesh walls enclose three sides of the shelves on these stock trucks to keep items from falling off the shelves. The shelves can be loaded on the one side that does not have a wall. Mesh walls can retain large and small items. They allow air to circulate through the stock truck and let users see items on the shelves.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Brand	Item No.
Adjustable Shelves							
3,000 lb	30 in	48 in	30 ½ in	54 ½ in	56 ½ in	GA	**5LVU3**
	30 in	60 in	30 ½ in	66 ½ in	56 ½ in	GA	**5LVU4**
	36 in	24 in	24 ½ in	42 ½ in	56 ½ in	GA	**16C201**
	36 in	60 in	36 ½ in	66 ½ in	56 ½ in	GA	**5LVU1**
	36 in	72 in	36 ½ in	78 ½ in	56 ½ in	GA	**5LVU0**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	GA	**9PW27**
	60 in	30 in	30 ½ in	66 ½ in	56½"	GA	**8RHU4**
	70 in	32 ⅞ in	78 ½ in	36 in	56 ½ in	GA	**5LVU6**
3,600 lb	48 in	24 in	24 in	54 in	57 in	Little Giant	**19G924**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	GA	**19G930**
	60 in	30 in	30 in	66 in	57 in	Little Giant	**19G927**
Fixed Shelves							
2,000 lb	36 in	24 in	24 ½ in	42 ½ in	56 ½ in	GA	**9PY30**
	48 in	24 in	24 ½ in	54 ½ in	43 ½ in	GA	**9GFD2**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	GA	**8ZN03**
	48 in	30 in	30 ½ in	54 ½ in	43 ½ in	GA	**9JE98**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	GA	**16D044**
	48 in	36 in	36 ½ in	54 ½ in	56 ½ in	GA	**16D045**
	60 in	24 in	24 ½ in	66 ½ in	56 ½ in	GA	**49Y207**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	GA	**49Y209**
	72 in	36 in	36 ½ in	78 ½ in	56 ½ in	GA	**9DX93**
2,400 lb	48 in	30 in	54 ½ in	30 ½ in	45 ½ in	GA	**458R48**
3,000 lb	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	GA	**16D046**
	48 in	36 in	36 ½ in	54 ½ in	56 ½ in	GA	**16D049**
	72 in	30 in	30 ½ in	78 ½ in	56 ½ in	GA	**16D056**
3,600 lb	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	GA	**2CFN2**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	GA	**2CFP1**
	48 in	30 in	30 in	54 ½ in	47 in	Little Giant	**8WPP1**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	GA	**2CFN4**
	60 in	24 in	24 ½ in	66 in	57 in	Little Giant	**2CFN7**
	60 in	24 in	24 ½ in	66 ½ in	56 ½ in	GA	**2CFN3**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	GA	**2CFP4**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	GA	**2CFN5**
	60 in	30 in	30 ½ in	66 in	57 in	Little Giant	**2CFN9**

GA GRAINGER APPROVED Jamco Products LITTLE GIANT

Dual-Latch Welded Mesh Security Carts

The two latches on these carts can be locked with a padlock or other locking device to secure the carts' contents. The carts' doors and/or walls are made from welded steel mesh and have small openings that let air circulate through them and keep the carts' contents visible. The carts' fixed shelves are welded in place and cannot be moved. All carts have two swivel and two rigid casters.



No. 8FCF7

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
6 in-dia. Phenolic Wheels								
2,000 lb	48 in	24 in	54 ½ in	26 in	56 ½ in	4	GA	**16C899**
	48 in	30 in	54 ½ in	32 in	56 ½ in	1	GA	**1TGU7**
	48 in	36 in	40 in	54 in	57 in	1	Jamco	**9LEW8**
	60 in	24 in	66 ½ in	26 in	56 ½ in	4	GA	**16C901**
	60 in	24 in	66 in	28 in	57 in	1	Jamco	**8ZMD9**
	60 in	30 in	66 ½ in	32 in	56 ½ in	1	GA	**1TGU8**
	60 in	30 in	66 ½ in	32 in	56 ½ in	4	GA	**16C903**
	60 in	36 in	66 ½ in	38 in	56 ½ in	4	GA	**16C905**
3,000 lb	48 in	36 in	54 in	40 in	57 in	3	Jamco	**8FCF7**
	60 in	24 in	66 in	28 in	57 in	2	Jamco	**8FCE6**
6 in-dia. Polyurethane Wheels								
2,000 lb	36 in	72 in	78 ½ in	38 in	56 ½ in	2	GA	**8RH84**
	48 in	24 in	54 ½ in	26 in	56 ½ in	2	GA	**9WMJ8**
	48 in	24 in	54 ½ in	26 in	56 ½ in	3	GA	**8RWG7**
10 in-dia. Rubber Wheels								
1,500 lb	48 in	24 in	49 in	27 in	60 in	1	Little Giant	**49Y680**
	48 in	24 in	49 in	27 in	60 in	2	Little Giant	**49Y674**
	48 in	24 in	49 in	27 in	60 in	3	Little Giant	**49Y671**
	48 in	30 in	49 in	33 in	60 in	2	Little Giant	**49Y676**
	48 in	30 in	49 in	33 in	60 in	3	Little Giant	**49Y673**
	60 in	24 in	61 in	27 in	60 in	1	Little Giant	**49Y681**
	60 in	24 in	61 in	27 in	60 in	2	Little Giant	**49Y675**
	60 in	24 in	61 in	27 in	60 in	3	Little Giant	**49Y672**



Low-Profile



Front-Release



Optional Caster Kit

Self-Dumping Steel Hoppers

Dayton

- Red powder-coat finish on hopper, black base

HOPPERS

Automatically dump loads when locking latch is released, then return to locked position. Constructed with precision robotic weld; base is formed steel. Safety chain secures hopper to fork truck, while cable enables dumping from fork truck seat.

Low-Profile

Feature a 90° dump angle and half-length fork entry. Hoppers return to locked position when lowered to ground.

Front-Release

Bumper dumps hopper a minimum of 70° when activated. Full-length fork entry. Predrilled for caster kit.

OPTIONAL CASTER KITS

Casters are field installable with hardware included. Include 2 rigid and 2 swivel casters. Intended for use on front-release hoppers only.

Volume Cap.	Overall Length	Overall Width	Overall Height	2000 lb. Item No.	4000 lb. Item No.	6000 lb. Item No.
Low Profile Self-Dumping Hoppers						
¼ cu. yd.	46"	25"	18¼"	**5PKE8**	**5PKE9**	**5PKF0**
½ cu. yd.	51¼"	25"	28"	**5PKF1**	**5PKF2**	**5PKF3**
1 cu. yd.	51¼"	49"	28"	**5PKF4**	**5PKF5**	**5PKF6**
1½ cu. yd.	51¼"	49"	41"	**5PKF7**	**5PKF8**	**5PKF9**
Front Release Self-Dumping Hoppers						
⅓ cu. yd.	52"	26"	38¼"	**5PKG0**	—	—
⅓ cu. yd.	49¼"	26"	38¼"	—	—	**5PKG1**
½ cu. yd.	52"	33½"	38¼"	**5PKG2**	—	**5PKG3**
¾ cu. yd.	61½"	31½"	43"	**5PKG4**	—	**5PKG5**
1 cu. yd.	61½"	41½"	43"	**5PKG6**	—	**5PKG7**
1½ cu. yd.	69"	43½"	52"	**5PKG8**	—	**5PKG9**
2 cu. yd.	69"	56½"	52"	**5PKH0**	**5PKH1**	**5PKH2**
2½ cu. yd.	69"	69½"	52"	**5PKH3**	—	**5PKH4**
3 cu. yd.	69"	81¾"	52"	**5PKH5**	**5PKH6**	**5PKH7**

Wheel/Tread Material	Load Rating	6"-dia. Wheels Item No.	8"-dia. Wheels Item No.
Plate Caster Kits			
Rubber	2400 lb.	**5PKH8**	**5PKH9**
Polyurethane	4800 lb.	**5PKJ2**	**5PKJ3**
Nylon	4800 lb.	**5PKJ4**	**5PKJ5**



With Casters No. F1970

Without Casters No. 4UCC5

Self-Dumping Poly Hoppers

GRAINGER APPROVED

- Dump up to 40° below horizontal
- All-welded steel framework
- Bumper release

Seamless, molded polyethylene bodies are supported by steel tubular frames.

Hoppers with casters have 2 swivel, 2 rigid casters. Hoppers without casters are forklift capable for elevated dumping and mobility.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Item No.
Hoppers with (4) 6" Rubber Casters						
⅝ cu. yd.	750 lb.	59"	26"	42"	Blue, Green, Red, White, Yellow	**F1970**
1 cu. yd.	1000 lb.	71"	31"	46"	Blue, Green, Red, White, Yellow	**F1972**
1⅝ cu. yd.	1200 lb.	80"	40"	62½"	Blue, Green, Red, White, Yellow	**F1974**
2¼ cu. yd.	1500 lb.	80"	51"	55"	Blue, Green, Red, White, Yellow	**F1976**
Hoppers without Casters						
½ cu. yd.	750 lb.	59"	26"	42"	Blue, Green, White, Yellow	**F1969**
⅝ cu. yd.	750 lb.	59"	26"	42"	Red	**F1969**
1 cu. yd.	1000 lb.	71"	32"	46"	Blue, Green, Red, White, Yellow	**F1971**
1 cu. yd.	1000 lb.	71"	32"	46"	Gray	**4UCC1**
1⅝ cu. yd.	1200 lb.	80"	40"	55"	Gray	**F1974** *
1¾ cu. yd.	1200 lb.	80"	40"	55"	Blue, Green, Red, White, Yellow	**F1973**
2¼ cu. yd.	1500 lb.	80"	51"	55"	Blue, Green, Red, White, Yellow	**F1975**
2¼ cu. yd.	1500 lb.	80"	51"	55"	Gray	**4UCC5**

**** Not forklift capable.***



300-Lb. Capacity

Rubbermaid Commercial Products

2-Wheel Wheelbarrows

These wheelbarrows have large 20"-dia. wheels and a one-piece plastic container that won't leak, cleans easily, and resists mild chemicals.

Cubic Ft. Capacity	Load Capacity	Wheel Material	Wheel Type	Item No.
3½ cu. ft.	200 lb.	Rubber	Semi-Pneumatic	**2KTD7**
7½ cu. ft.	300 lb.	Vulcanized Rubber	Semi-Pneumatic	**4W504**
7½ cu. ft.	700 lb.	Vulcanized Rubber	Pneumatic	**4DU48**



No. 46V230

GRAINGER APPROVED

2-Wheel Steel Trailer Carts

2-wheel steel trailer carts can be pulled by all-terrain and utility task vehicles (ATVs and UTVs). Feature rust-resistant powder-coated finish and pneumatic tires that roll smoothly across rough terrain.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Wheel Dia.	Wheel Width	Item No.
10.3 cu. ft.	500 lb.	58⅞"	30½"	30"	15"	3½"	**46V231**
18.4 cu. ft.	1000 lb.	80"	32⅜"	38⅜"	16"	5"	**46V233**
13.6 cu. ft.	1500 lb.	67¾"	45"	37⅞"	18"	8"	**46V234**
18.4 cu. ft.	1500 lb.	80¼"	37⅛"	32⅝"	16"	5"	**46V230**



General Purpose
No. 21VK50



Steel Reinforced
No. 1D653

TOUGH GUY · Rubbermaid Commercial Products · GA GRAINGER APPROVED

General Purpose Plastic Tilt Trucks

General purpose plastic tilt trucks have a seamless plastic container that won't rust, dent, chip, peel, corrode, or absorb moisture. It withstands exposure to many chemicals and can be cleaned with high-pressure jets of water or steam.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.		OPTIONAL LIDS Item No.
General Purpose Plastic Tilt Trucks									
With a Flat Handle									
27.0 cu. ft.	600 lb.	77"	34"	43¾"	Black	Tough Guy	**21VK40**	*	**21VK31**
	850 lb.	72¼"	33½"	43¾"	Black	Rubbermaid	**5M654**		**1D651**
		77"	34"	44¾"	Black	Tough Guy	**21VK49**		**21VK31**
With a Raised Handle									
9.0 cu. ft.	275 lb.	48"	26"	30"	Green	GA	**8YCN4**	*	—
		48"	26"	30"	Yellow	GA	**9HT90**	*	—
		48"	26"	30"	Blue	GA	**9HT96**	*	—
		48"	26"	30"	Gray	GA	**8RHX3**	*	—
		48"	26"	30"	White	GA	**9UCF0**	*	—
		48"	26"	30"	Black	GA	**8EK72**	*	—
		48"	26"	30"	Red	GA	**9PW62**	*	**9HR54**
16.0 cu. ft.	300 lb.	55½"	26½"	36"	Yellow	GA	**8EF30**	*	—
		55½"	26½"	36"	Orange	GA	**9TCR7**	*	—
	600 lb.	55½"	26½"	36"	Yellow	GA	**9DPA8**		**8ANZ2**
	1000 lb.	55½"	26½"	37½"	Gray	GA	**8RHM7**		—
		55½"	26½"	37½"	Yellow	GA	**8Z976**		**8ANZ2**
29.0 cu. ft.	900 lb.	69"	31½"	39½"	White	GA	**9UAA8**		—
		69"	31½"	39½"	Gray	GA	**9HN67**		—
		69"	31½"	39½"	Orange	GA	**8EPR8**		**9LGE7**
	1400 lb.	69"	31½"	39½"	Yellow	GA	**8AP19**		—
		69"	31½"	39½"	Green	GA	**8TX69**		—
50.0 cu. ft.	1000 lb.	74"	40"	50½"	Blue	GA	**8AP21**		—
		74"	40"	50½"	Green	GA	**8TVG3**		—
		74"	40"	50½"	Black	GA	**9UA43**		—
		74"	40"	50½"	Red	GA	**9UAC0**		—
	1700 lb.	74"	40"	53½"	Gray	GA	**4UCE1**		**4UCE3**
		74"	40"	53½"	Red	GA	**8WUK6**		**8ANM5**
		74"	40"	53½"	Green	GA	**9WZ86**		—
59.0 cu. ft.	1200 lb.	74"	51"	52¼"	Yellow	GA	**8YA88**		—
		74"	51"	52¼"	Black	GA	**9KFN4**		—
		74"	51"	52¼"	Red	GA	**9HN59**		—
		74"	51"	52¼"	Blue	GA	**9NUD6**		—
		74"	51"	52¼"	Orange	GA	**8RPN8**		**9DVT6**
		74"	51"	52¼"	Green	GA	**8ZK89**		—
	2000 lb.	74"	51"	53½"	Red	GA	**8ANN0**		—
		74"	51"	53½"	Blue	GA	**9AH59**		—
		74"	51"	53½"	Yellow	GA	**9AHJ9**		—
		74"	51"	53½"	Black	GA	**9KCJ3**		—
Without Handle									
13.5 cu. ft.	300 lb.	60"	28"	38½"	Black	Tough Guy	**21VK39**	*	**21VK32**
	450 lb.	56¾"	28"	38½"	Black	Rubbermaid	**1D657**		**1D651**
		60"	28"	38½"	Black	Tough Guy	**21VK50**		**21VK32**
27.0 cu. ft.	600 lb.	72¼"	33½"	43¾"	Black	Rubbermaid	**3LU58**	*	**1D651**
Steel-Reinforced Plastic Tilt Trucks									
With a Flat Handle									
13.5 cu. ft.	850 lb.	65"	28"	38½"	Blue	Tough Guy	**21VK41**		—
		65"	28"	38½"	Yellow	Tough Guy	**21VK43**		—
		65"	28"	38½"	Red	Tough Guy	**21VK42**		—
		65"	28"	38½"	Black	Tough Guy	**21VK47**		**21VK32**
	1400 lb.	65"	28"	38½"	Black	Tough Guy	**21VK33**		**21VK32**
27.0 cu. ft.	1250 lb.	77"	34"	44¾"	Red	Tough Guy	**21VK45**		—
		77"	34"	44¾"	Yellow	Tough Guy	**21VK46**		—
		77"	34"	44¾"	Blue	Tough Guy	**21VK44**		—
		77"	34"	44¾"	Black	Tough Guy	**21VK48**		**21VK31**
	2100 lb.	77"	34"	44¾"	Black	Tough Guy	**21VK34**		**21VK31**
With a Raised Handle									
9.0 cu. ft.	1200 lb.	48"	26"	31½"	Gray	GA	**4UCC8**		**4UCC9**
16.0 cu. ft.	1500 lb.	55½"	26½"	37½"	Green	GA	**9WCW3**		**9GM87**
		55½"	26½"	37½"	Orange	GA	**9PY61**		**8ERX1**
		55½"	26½"	37½"	Blue	GA	**9UAA3**		—
		55½"	26½"	37½"	White	GA	**8AN70**		—
29.0 cu. ft.	2100 lb.	69"	31½"	41½"	White	GA	**8RHN1**		—
		69"	31½"	41½"	Green	GA	**9TCP3**		—
50.0 cu. ft.	2200 lb.	74"	40"	53½"	Gray	GA	**4UCE2**		**4UCE3**
59.0 cu. ft.	2500 lb.	74"	51"	53½"	Green	GA	**9MK87**		—
		74"	51"	53½"	Black	GA	**9LF01**		—
78.0 cu. ft.	2800 lb.	81"	56"	56"	Gray	GA	**4UCE9**		—
Without Handle									
13.5 cu. ft.	850 lb.	60½"	28"	38½"	Black	Rubbermaid	**1D656**		**1D654**
	1400 lb.	60½"	28"	38⅝"	Black	Rubbermaid	**1D655**		**1D654**
27.0 cu. ft.	1250 lb.	72¼"	33½"	43¾"	Black	Rubbermaid	**1D653**		**1D651**
	2100 lb.	72¼"	33½"	43¾"	Black	Rubbermaid	**1D652**		**1D651**

** (1) swivel caster, (2) axle-mounted casters.*



Plastic Truck
No. 3LU57



Steel Reinforced
No. 2ZB51

Rubbermaid Commercial Products · TOUGH GUY · suncast

Forkliftable Plastic Tilt Trucks

These tilt trucks have forklift pockets and can be picked up and moved with forklifts and automated lifters. This increases efficiency and reduces physical effort when moving loaded trucks.



Steel Reinforced
Recycling Truck
No. 5M653

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	OPTIONAL LIDS Item No.
Forkliftable Plastic Tilt Trucks								
Without Handle								
13.5 cu. ft.	300 lb.	56¾"	28"	38⅝"	Black	Rubbermaid	**3LU57**	**1D654**
Forkliftable Steel-Reinforced Plastic Tilt Trucks								
With a Flat Handle								
13.5 cu. ft.	850 lb.	60½"	28"	38⅝"	Black	Rubbermaid	**2ZB50**	**1D654**
	1400 lb.	65"	30"	38½"	Black	Tough Guy	**21VK35**	**21VK32**
	1200 lb.	77"	36"	44¾"	Black	Tough Guy	**21VK36**	**21VK31**
27.0 cu. ft.	1250 lb.	72¼"	33½"	43¾"	Black	Rubbermaid	**2ZB51**	**1D651**
	1300 lb.	70"	33⅛"	43⅞"	Gray	Suncast Commercial	**48LW44**	—
	2200 lb.	70"	33⅛"	43⅛"	Gray	Suncast Commercial	**48LW45**	—
40.5 cu. ft.	1200 lb.	80½"	43"	49½"	Black	Rubbermaid	**5Z192**	**5Z196**
	1300 lb.	85⅛"	41¼"	47⅞"	Gray	Suncast Commercial	**48LW46**	—
	2100 lb.	80½"	43"	49½"	Black	Rubbermaid	**5M641**	**5Z196**
	2200 lb.	85⅛"	41¼"	49"	Gray	Suncast Commercial	**48LW47**	—
54.0 cu. ft.	2300 lb.	81¼"	46¾"	50"	Black	Rubbermaid	**5M643**	—
67.5 cu. ft.	1900 lb.	81½"	55½"	50"	Black	Rubbermaid	**5M644**	—
		81¼"	46¾"	50"	Black	Rubbermaid	**5Z193**	—
	2300 lb.	81½"	55½"	50"	Black	Rubbermaid	**5M645**	—
Without Handle								
13.5 cu. ft.	850 lb.	60½"	28"	38⅝"	Blue	Rubbermaid	**4YX34**	**1D654**
		60½"	28"	38⅝"	Red	Rubbermaid	**4YX35**	**1D651**
		60½"	28"	38⅝"	Yellow	Rubbermaid	**4YX36**	**1D654**
27.0 cu. ft.	1250 lb.	72¼"	33½"	43¾"	Blue	Rubbermaid	**4YX37**	**1D651**
		34"	72¼"	43⅜"	Red	Rubbermaid	**4YX38**	**1D651**
		72¼"	33½"	43¾"	Yellow	Rubbermaid	**4YX39**	**1D651**
40.5 cu. ft.	1500 lb.	80½"	43"	50¼"	Black	Rubbermaid	**2ZB52**	—
Forkliftable Steel-Reinforced Plastic Tilt Trucks for Recyclables								
With a Flat Handle								
13.5 cu. ft.	850 lb.	60½"	28"	38⅝"	Blue	Rubbermaid	**5M653**	**1D654**



No. 4UR31

Rubbermaid Commercial Products · TOUGH GUY

Towable Steel-Reinforced Plastic Tilt Trucks

Towable tilt trucks have a tow bar, hitch, and frame and can be connected to other towable tilt trucks and/or towing equipment. They have a flat handle, two swivel casters, and two axle-mounted wheels.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Brand	Item No.	OPTIONAL LIDS Item No.
13.5 cu. ft.	1400 lb.	65"	30"	41½"	Tough Guy	**21VK37**	**21VK32**
27.0 cu. ft.	2100 lb.	72¼"	33½"	42¼"	Rubbermaid	**4UR31**	**1D651**
		77"	36"	44¾"	Tough Guy	**21VK38**	**21VK31**
40.5 cu. ft.		92"	44"	51"	Rubbermaid	**3LU56**	—



Blank Sides
No. 36FK89



Recycling Symbol
No. 5M733

GA GRAINGER APPROVED | Rubbermaid Commercial Products | ROYAL BASKET TRUCKS

High-Maneuverability Cube Trucks

High-maneuverability cube trucks can spin 360°, allowing them to navigate tight areas such as laundry rooms, hallways, aisles, stock rooms, production floors, and kitchens.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	OPTIONAL LID Item No.
Blank Sides								
Polyurethane Tread Wheels with (2) Swivel, (2) Rigid Diamond Mounting Location								
	200 lb.	38"	24"	29½"	Gray	GA	36FK87	—
	300 lb.	38"	24"	29½"	Black	GA	36FK89	—
8.0 cu. ft.	300 lb.	38"	26"	28⅛"	Black	Rubbermaid	5M726	5M728
	700 lb.	38"	24"	29½"	Black	GA	36FK88	—
	700 lb.	38⅜"	26"	28¼"	Black	Rubbermaid	4UR37	5M728
	250 lb.	43"	28"	33½"	Gray	GA	36FK90	—
11.9 cu. ft.	400 lb.	43"	28"	33½"	Black	GA	36FK92	—
	800 lb.	43"	28"	33½"	Black	GA	36FK91	—
12.0 cu. ft.	400 lb.	42¾"	28"	33"	Black	Rubbermaid	5Z204	5Z208
	800 lb.	43¼"	28"	33⅞"	Black	Rubbermaid	4UR38	5Z208
	300 lb.	44"	31"	33½"	Gray	GA	36FK93	—
14.0 cu. ft.	500 lb.	44"	31"	34½"	Black	GA	36FK94	—
	500 lb.	44⅛"	31"	32½"	Black	Rubbermaid	5Z205	5Z209
	400 lb.	44"	31"	36½"	Gray	GA	36FK95	—
	500 lb.	44"	31"	37½"	Black	GA	36FK98	—
16.0 cu. ft.	500 lb.	43¾"	31"	37"	Black	Rubbermaid	5Z206	5Z209
	1000 lb.	44"	31"	37½"	Black	GA	36FK96	—
	1000 lb.	44⅜"	31"	38¼"	Black	Rubbermaid	4UR39	5Z209
	500 lb.	48"	36½"	37½"	Gray	GA	36FK99	—
	600 lb.	48½"	35"	36¾"	Black	GA	36FL02	—
20.0 cu. ft.	600 lb.	48"	34⅛"	36½"	Black	Rubbermaid	5Z207	5Z210
	1200 lb.	48"	35½"	37½"	Black	GA	36FL01	—
	1200 lb.	48¼"	34⅛"	37⅛"	Black	Rubbermaid	4UR40	5Z210
Polyurethane Tread Wheels with (4) Swivel Diamond Mounting Location								
27.0 cu. ft.	1200 lb.	59"	34"	42⅞"	Black	Rubbermaid	4UR41	4VM70
Polyurethane Tread Wheels with (4) Swivel Standard Mounting Location								
	600 lb.	34"	24"	27"	Blue	Royal	1MDN9	10F461
6.7 cu. ft.	600 lb.	34"	24"	26"	Blue	Royal	22E937	10F461
	600 lb.	34"	24"	26"	Gray	Royal	22E942	10F456
	600 lb.	40"	28"	31½"	Blue	Royal	1MDR1	10F462
11.9 cu. ft.	600 lb.	43"	28"	35½"	Blue	GA	36FL14	—
	600 lb.	43"	28"	35½"	Gray	GA	36FL15	—
14.0 cu. ft.	600 lb.	44"	31"	35½"	Blue	GA	36FL19	—
14.2 cu. ft.	600 lb.	40"	30"	34"	Blue	Royal	1MDR2	10F463
	600 lb.	40"	30"	33"	Gray	Royal	22E944	10F458
18.6 cu. ft.	600 lb.	44"	32"	35½"	Blue	Royal	22E940	10F464
	600 lb.	44"	32"	36½"	Blue	Royal	1MDR3	10F464
	600 lb.	52"	36"	35½"	Blue	Royal	22E941	10F465
	600 lb.	52"	36"	35½"	Gray	Royal	22E946	10F460
25.6 cu. ft.	600 lb.	52"	36"	36½"	Gray	Royal	10F470	10F460
	600 lb.	52"	36"	36½"	Blue	Royal	1MDR4	10F465
	800 lb.	52"	36"	35½"	Red	Royal	35LF50	5M728
27.0 cu. ft.	1200 lb.	59"	34"	44½"	Black	GA	36FL03	—
Recycling								
Polyurethane Tread Wheels with (2) Swivel, (2) Rigid Diamond Mounting Location								
16.0 cu. ft.	500 lb.	44"	31"	37½"	Blue	GA	36FK97	—
	500 lb.	43¾"	31"	37"	Blue	Rubbermaid	5M733	5Z209

GA GRAINGER APPROVED | ROYAL BASKET TRUCKS

General Purpose Cube Trucks

No. 36FL23



General purpose cube trucks are used for a variety of material-handling applications. They have a mix of rigid casters and swivel casters that allow them to both move around curves and obstacles and track a straight course while rolling.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
(2) Swivel, (2) Rigid Polyurethane Tread Casters/Wheels							
7.6 cu. ft.	400 lb.	36¼"	24¼"	27"	Gray	GA	8ARC6
					White	GA	8ARC8
8.0 cu. ft.	500 lb.	38"	24"	30½"	Red	GA	36FL08
					Gray	GA	36FL10
					White	GA	36FL11
					Yellow	GA	36FL12
11.9 cu. ft.	600 lb.	43"	28"	35¼"	Red	GA	36FL16
				35½"	White	GA	36FL17
					Yellow	GA	36FL18
16.0 cu. ft.		44"	31"	38½"	Blue	GA	36FL23
					Yellow	GA	36FL25
					White	GA	36FL26
20.0 cu. ft.		48"	34"		Blue	GA	36FL29
					Gray	GA	36FL30
					White	GA	36FL31
	800 lb.				Red	GA	36FL33
					White	GA	36FL36
27.0 cu. ft.		59"	36"	43½"	Blue	GA	36FL37
					Gray	GA	36FL38
					Yellow	GA	36FL39
(4) Swivel, (2) Rigid Rubber Tread Casters/Wheels							
23.0 cu. ft.	800 lb.	43½"	29"	37"	Blue	Royal Basket Trucks	4AAC7
					Blue	Royal Basket Trucks	4AAC9



Blank Sides
No. 2ENC4

GA GRAINGER APPROVED | ROYAL BASKET TRUCKS



Recycling
No. 4HTF9

Easy-Load Cube Trucks

The side cutouts on these trucks allow trash, packages, and other heavy or bulky objects to be loaded into the trucks without having to lift them over the full height of the trucks' container wall.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	
Blank Sides								
23.0 cu. ft.	1100 lb.	48½"	31½"	36¼"	Blue	GA	4HTF3	
					Green	GA	4HTF4	
					Gray	GA	4HTF5	
					Orange	GA	4HTF6	
					Red	GA	4HTF7	
					Yellow	GA	4HTF8	
26.5 cu. ft.	1200 lb.	48"	31¾"	37"	Blue	Royal	2ENC4	*
42.1 cu. ft.	1000 lb.	71"	43"	42"	Gray	GA	4UCA5	*
Cardboard Only								
23.0 cu. ft.	1100 lb.	48½"	31½"	36¼"	Blue	GA	4HTG5	
					Green	GA	4HTG6	
					Gray	GA	4HTG7	
					Orange	GA	4HTG8	
					Yellow	GA	4HTG9	
					Red	GA	9WFM5	
26.5 cu. ft.	1000 lb.	48"	31¾"	37"	Green	Royal	22E961	*
					Gray	Royal	22E962	*
					Yellow	Royal	22E964	*
					Red	Royal	22E965	*
					Blue	Royal	22F134	*
Recycling								
23.0 cu. ft.	1100 lb.	48½"	31½"	36¼"	Blue	GA	4HTF9	
					Green	GA	4HTG1	
					Gray	GA	4HTG2	
					Orange	GA	4HTG3	
					Yellow	GA	4HTG4	
					Red	GA	8C778	
26.5 cu. ft.	1000 lb.	48"	31¾"	37"	Blue	Royal	22F135	*
					Gray	Royal	22F137	*
					Red	Royal	22F140	*
Trash Only								
23.0 cu. ft.	1100 lb.	48½"	31½"	36¼"	Blue	GA	4HTH1	
					Green	GA	4HTH2	
					Gray	GA	4HTH3	
					Orange	GA	4HTH4	
					Red	GA	4HTH5	
					Yellow	GA	8NEJ6	
26.5 cu. ft.	1000 lb.	48"	31¾"	37"	Orange	Royal	22F144	*
					Red	Royal	22F146	*

** Without brake.*

Box Truck Side Panel Information

Expanded-metal side panels have openings that allow air to circulate through the trucks. **Solid** side panels prevent small objects from falling out of the trucks.



Drop-Gate Raised Platfrom
No. 19G909



Open Sided Raised Platform
No. 16A895



Raised-Platform
No. 19G901

Jamco Products | GA GRAINGER APPROVED | LITTLE GIANT

Drop-Gate & Raised-Platform Box Trucks

These box trucks have features that reduce effort when loading and unloading the trucks. All have two swivel casters and two rigid casters, except as noted. **Drop-gate** trucks have one side wall that folds down halfway to reduce how far items have to be lifted to get them over the wall. **Open-sided** trucks do not have a wall on one side of their container, which lets users slide heavy objects into or out of the container. **Raised-platform** trucks have a platform that elevates the trucks' container to reduce bending and straining when reaching into the container.

Load Capacity	Overall Length	Overall Width	Overall Height	Handle Type	Caster Wheel/ Tread Material	Brand	Item No.	
Drop-Gate Box Trucks								
With 1 Shelf and Expanded Metal Side Panels								
1,200 lb	54 in	31 in	44 in	Flat	Polyurethane	Jamco	**16C256**	
1,400 lb	66 ½ in	30 ½ in	43 ⅝ in	Flat	Polyolefin	GA	**16C257**	*
3,600 lb	54 in	24 in	47 in	Flat	Polyurethane	Little Giant	**49Y489**	
	54 ½ in	30 ½ in	47 ⅛ in	Flat	Polyurethane	GA	**49Y491**	
	66 ½ in	30 ½ in	45 ⅛ in	Flat	Polyurethane	GA	**49Y496**	
Drop-Gate Raised-Platform Box Trucks								
With 2 Shelves and Expanded Metal Side Panels								
2,000 lb	54 ½ in	30 ⅜ in	40 in	Ergonomic	Polyurethane	GA	**19G910**	
With 1 Shelf and Solid Side Panels								
1,200 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G907**	
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G909**	
Open-Sided Raised-Platform Box Trucks								
With 2 Shelves and Solid Side Panels								
1,200 lb	42 ⅛ in	18 ½ in	39 ⅞ in	Flat	Polyurethane	GA	**2XJV2**	*
	42 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	GA	**16A895**	*
	42 ½ in	24 ⅜ in	40 ⅛ in	Flat	Polyurethane	GA	**39E645**	*
2,000 lb	42 ⅛ in	24 ⅛ in	31 ¼ in	Flat	Phenolic	GA	**49Y199**	*
	54 ⅛ in	24 ⅛ in	41 ¼ in	Flat	Phenolic	GA	**49Y201**	*
With 2 Shelves and Expanded Metal Side Panels								
1,200 lb	42 ½ in	30 ⅜ in	40 ⅛ in	Flat	Polyurethane	GA	**16C226**	*
With 1 Shelf and Solid Side Panels								
2,000 lb	65 in	30 in	40 in	Flat	Polyurethane	Little Giant	**9MJD4**	
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**39E646**	
	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**39E648**	
Raised-Platform Box Trucks								
With 2 Shelves and Solid Side Panels								
1,200 lb	54 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	GA	**5LVG2**	*
	42 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	GA	**2XJV7**	*
2,000 lb	54 ⅛ in	24 ⅛ in	41 ¼ in	Flat	Phenolic	GA	**49Y205**	*
With 2 Shelves and Expanded Metal Side Panels								
1,200 lb	38 ½ in	18 ½ in	40 ⅛ in	Flat	Polyurethane	GA	**19G901**	*
	66 in	31 in	40 in	Flat	Polyurethane	Jamco	**16C235**	
1,400 lb	42 ½ in	18 ½ in	40 ⅛ in	Flat	Polyolefin	GA	**16C229**	*
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G903**	
	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G905**	

** Swivel casters include brake.*

Rubbermaid Commercial Products | GA GRAINGER APPROVED

Towable Cube Trucks

These trucks have a tow bar and hitch and can be connected to other towable cube trucks and/or towing equipment. They also have a handle and can be pushed manually.



No. 4UR42

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
27.0 cu. ft.	1200 lb.	59"	34"	42⅞"	Black	Rubbermaid	**4UR42**
				44½"	Black	GA	**36FL04**

CORTECH

Easy-Drain Dual-Handle Cube Trucks

These cube trucks have built-in drain for easy cleaning and two handles that allow them to be steered from either side. The handles can hold spray bottles, liners, and other cleaning supplies. The trucks' handles and body are made from break-resistant plastic, and their casters are attached with tamper-resistant mounts. Suitable for use in correctional facilities.



Flame-Retardant
No. 5EMF0

Color	Item No.	
Easy-Drain Dual-Handle Cube Trucks		
Black	**5EME6**	
Blue	**5EME9**	*
Green	**5EME8**	*
White	**5EME7**	*
Flame-Retardant Easy-Drain Dual-Handle Cube Trucks		
Blue	**5EMF2**	
Gray	**5EMF0**	
Green	**5EMF1**	

** Food grade.*



Security Box Truck
No. 5CHJ0



Drop-Gate Security Box Truck
No. 1TTZ6

GA GRAINGER APPROVED | LITTLE GIANT

Security Box Trucks with Hinged Lid

Security box trucks have a hinged lid that can be closed and locked with a padlock to prevent theft and vandalism of the trucks' contents. All have two swivel and two rigid casters. **Drop-gate** trucks have one side wall that folds down halfway to reduce how far items have to be lifted to get them over the wall.

Load Capacity	Overall Length	Overall Width	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Security Box Trucks						
With 1 Shelf and Solid Side Panels						
2000 lb.	42⅛"	24¼"	32¾"	Phenolic	GA	**5CHJ0**
	66⅛"	30¼"				**5CHJ3**
With 1 Shelf and Expanded-Metal Side Panels						
2000 lb.	42¼"	24¼"	32⅝"	Phenolic	GA	**5CHH6**
	54¼"	30¼"				**5CHH8**
Drop-Gate Security Box Trucks						
With 1 Shelf and Solid Side Panels						
2000 lb.	66⅛"	30⅜"	46¼"	Rubber	GA	**34AN51**
With 1 Shelf and Expanded-Metal Side Panels						
1500 lb.	54"	30"	50½"	Rubber	Little Giant	**49Y669**
	66"					**49Y670**
3600 lb.	54½"	24½"	46¼"	Polyurethane	GA	**1TTZ3**
	66½"	30½"				**1TTZ6**



Solid Sides
No. 16A913



Expanded Metal Sides
No. 5CHH1

Jamco Products | GA GRAINGER APPROVED | LITTLE GIANT

General Purpose Box Trucks

Suitable for moving packages, products, equipment, and bulk items in a variety of material-handling applications. Two swivel casters, and two rigid casters.

Load Capacity	Overall Length	Overall Width	Overall Height	Handle Type	Caster Wheel/ Tread Material	Brand	Item No.
With 1 Shelf and Solid Side Panels							
1200 lb.	66"	31"	27"	Flat	Polyurethane	Jamco	**16A919**
1400 lb.	42⅛"	18¼"	28⅛"	Flat	Polyolefin	GA	**16A913** *
		24¼"	28⅛"	Flat	Polyolefin	GA	**16A914** *
2000 lb.	41"	24"	33"	Flat	Rubber	Little Giant	**5CHH2**
	53"	24"	33"	Flat	Rubber	Little Giant	**5CHH3**
	66⅛"	30¼"	34⅝"	Ergonomic	Phenolic	GA	**49Y219** *
With 1 Shelf and Expanded Metal Side Panels							
1200 lb.	54½"	24½"	33⅞"	Ergonomic	Polyurethane	GA	**16C248** *
		30½"	33⅞"	Ergonomic	Polyurethane	GA	**16C251** *
1400 lb.	42½"	24½"	28⅛"	Flat	Polyolefin	GA	**16C247** *
		24½"	29⅜"	Flat	Phenolic	GA	**5CHG8**
		24½"	35⅛"	Ergonomic	Phenolic	GA	**49Y212** *
2000 lb.	54½"	24½"	35⅛"	Ergonomic	Phenolic	GA	**49Y213** *
	66½"	30½"	33"	Flat	Phenolic	GA	**5CHH1**
		30½"	35⅛"	Ergonomic	Phenolic	GA	**49Y215** *

**** Swivel casters include brake.***



Permanent Mildew-Resistant Vinyl Liner
No. 4W331

TOUGH GUY | ROYAL BASKET TRUCKS

Basket Trucks

Basket trucks have soft fabric liners that keep items from falling out of the trucks as they're moving. The liners may be permanently attached to the carts' frame, or they may be removable to allow for cleaning and replacement. Also called laundry or mail hampers, these lightweight carts can carry laundry, sports equipment, packages, and other bulk materials. All have a wood base. **Canvas** liners resist abrasion but are prone to mold and mildew if exposed to dampness or moisture. **Vinyl** liners are stronger than canvas liners. They resist mold, mildew, and tears and withstand exposure to UV rays. Vinyl liners are also flame-retardant, but other parts of these basket trucks may not be.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Inside Height	Liner Color	Brand	Item No.
Permanent Abrasion-Resistant Canvas Liner								
12.40 cu. ft.	600 lb.	36"	24"	31½"	31"	White	Tough Guy	**33W331**
12.50 cu. ft.	600 lb.	36"	24"	31½"	25"	White	Royal	**4W328**
14.90 cu. ft.	600 lb.	36"	26"	34"	27½"	White	Royal	**4W283**
15.00 cu. ft.	600 lb.	36"	26"	34"	33½"	White	Tough Guy	**33W333**
17.80 cu. ft.	600 lb.	40"	28"	34"	27½"	White	Royal	**9MDY3**
19.40 cu. ft.	600 lb.	40"	28"	36½"	30"	White	Royal	**4W330**
20.00 cu. ft.	600 lb.	40"	28"	36½"	36"	White	Tough Guy	**33W335**
24.90 cu. ft.	600 lb.	48"	32"	36½"	36"	White	Tough Guy	**33W337**
26.70 cu. ft.	600 lb.	48"	32"	36½"	30"	White	Royal	**4W284**
29.90 cu. ft.	600 lb.	54"	34"	37½"	36"	White	Tough Guy	**33W340**
31.90 cu. ft.	800 lb.	54"	34"	37½"	30"	White	Royal	**2ENC3**
7.10 cu. ft.	600 lb.	30"	20"	27"	20½"	White	Royal	**4W282**
7.50 cu. ft.	600 lb.	30"	20"	27"	26½"	White	Tough Guy	**33W329**
Permanent Mildew-Resistant Vinyl Liner								
12.40 cu. ft.	600 lb.	36"	24"	31½"	31"	Red	Tough Guy	**33W307**
	600 lb.	36"	24"	31½"	31"	Blue	Tough Guy	**33W308**
12.50 cu. ft.	600 lb.	36"	24"	31½"	25"	Blue	Royal	**2CFP6**
	600 lb.	36"	24"	31½"	25"	Yellow	Royal	**2CFP9**
	600 lb.	36"	24"	31½"	25"	Red	Royal	**2ENA7**
14.90 cu. ft.	600 lb.	36"	26"	34"	27½"	Yellow	Royal	**2CFR1**
	600 lb.	36"	26"	34"	27½"	Red	Royal	**4W285**
	600 lb.	36"	26"	34"	27½"	Blue	Royal	**4W329**
	600 lb.	36"	26"	34"	27½"	Green	Royal	**8AEY0**
	600 lb.	36"	26"	34"	27½"	Gray	Royal	**8AEY1**
	600 lb.	36"	26"	34"	27½"	White	Royal	**8NER9**
15.00 cu. ft.	600 lb.	36"	26"	34"	33½"	Blue	Tough Guy	**33W311**
	600 lb.	36"	26"	34"	33½"	Red	Tough Guy	**33W312**
15.30 cu. ft.	600 lb.	50"	23"	31"	23"	Blue	Royal	**2HEG5**
17.80 cu. ft.	600 lb.	40"	28"	34"	27½"	Blue	Royal	**8DRV4**
	600 lb.	40"	28"	34"	27½"	Red	Royal	**8DT85**
	600 lb.	40"	28"	34"	27½"	Gray	Royal	**8UWG2**
	600 lb.	40"	28"	34"	27½"	Yellow	Royal	**9NZA4**
19.40 cu. ft.	600 lb.	40"	28"	36½"	30"	Blue	Royal	**2CFP7**
	600 lb.	40"	28"	36½"	30"	Yellow	Royal	**2CFR2**
	600 lb.	40"	28"	36½"	30"	Red	Royal	**2ENA8**
	600 lb.	40"	28"	36½"	30"	Green	Royal	**8AEJ5**
	600 lb.	40"	28"	36½"	30"	White	Royal	**8TPH4**
20.00 cu. ft.	600 lb.	40"	28"	36½"	36"	Blue	Tough Guy	**33W315**
	600 lb.	40"	28"	36½"	36"	Red	Tough Guy	**33W316**
21.90 cu. ft.	600 lb.	42"	30"	36½"	30"	White	Royal	**8RFN2**
	600 lb.	42"	30"	36½"	30"	Green	Royal	**8XRC1**
	600 lb.	42"	30"	36½"	30"	Red	Royal	**8ZEN4**
	600 lb.	42"	30"	36½"	30"	Blue	Royal	**9MF30**
24.90 cu. ft.	600 lb.	48"	32"	36½"	36"	Red	Tough Guy	**33W319**
	600 lb.	48"	32"	36½"	36"	Blue	Tough Guy	**33W320**
25.60 cu. ft.	600 lb.	60"	32"	30¾"	23"	Blue	Royal	**2ENC8**
	600 lb.	60"	32"	30¾"	23"	Yellow	Royal	**2END1**
26.70 cu. ft.	600 lb.	48"	32"	36½"	30"	Yellow	Royal	**2ENA6**
	600 lb.	48"	32"	36½"	30"	Red	Royal	**4W286**
	600 lb.	48"	32"	36½"	30"	Blue	Royal	**4W331**
	600 lb.	48"	32"	36½"	30"	White	Royal	**8AEH1**
	600 lb.	48"	32"	36½"	30"	Green	Royal	**8UL40**
	600 lb.	48"	32"	36½"	30"	Gray	Royal	**9GEZ8**
28.30 cu. ft.	600 lb.	85"	24"	32"	24"	Blue	Royal	**2HEG9**
29.80 cu. ft.	600 lb.	70"	32"	30¾"	23"	Red	Royal	**2END4**
	600 lb.	70"	32"	30¾"	23"	Yellow	Royal	**2END5**
31.90 cu. ft.	800 lb.	54"	34"	37½"	30"	Blue	Royal	**2ENA9**
	800 lb.	54"	34"	37½"	30"	Red	Royal	**2ENC1**
	800 lb.	54"	34"	37½"	30"	Yellow	Royal	**2ENC2**
	600 lb.	54"	34"	37½"	36"	Blue	Tough Guy	**33W325**
31.9 cu. ft.	600 lb.	54"	34"	37½"	36"	Red	Tough Guy	**33W326**
7.10 cu. ft.	600 lb.	30"	20"	27"	20½"	Blue	Royal	**2CFP5**
	600 lb.	30"	20"	27"	20½"	Yellow	Royal	**2CFP8**
	600 lb.	30"	20"	27"	20½"	Red	Royal	**4W327**
7.50 cu. ft.	600 lb.	30"	20"	27"	26½"	Blue	Tough Guy	**33W303**
	600 lb.	30"	20"	27"	26½"	Red	Tough Guy	**33W304**
Removable Abrasion-Resistant Canvas Liner								
12.50 cu. ft.	600 lb.	36"	24"	31½"	25"	White	Royal	**9W593**
14.90 cu. ft.	600 lb.	36"	26"	34"	27½"	White	Royal	**4ZZ49**
15.00 cu. ft.	600 lb.	36"	26"	34"	33½"	White	Tough Guy	**33W339**
19.40 cu. ft.	600 lb.	40"	28"	36½"	30"	White	Royal	**8VTD0**
21.90 cu. ft.	600 lb.	42"	30"	36½"	30"	White	Royal	**8PFC5**
26.70 cu. ft.	600 lb.	48"	32"	36½"	30"	White	Royal	**8PFC6**
Removable Mildew-Resistant Vinyl Liner								
10.00 cu. ft.	600 lb.	34"	22"	29½"	23"	Blue	Royal	**31XG56**
12.50 cu. ft.	600 lb.	36"	24"	31½"	25"	Red	Royal	**8ARC5**
	600 lb.	36"	24"	31½"	25"	Blue	Royal	**8ZCU1**
14.90 cu. ft.	600 lb.	36"	26"	34"	27½"	Blue	Royal	**4ZZ48**
	600 lb.	36"	26"	34"	27½"	Red	Royal	**4ZZ50**
15.00 cu. ft.	600 lb.	36"	26"	34"	33½"	Blue	Tough Guy	**33W323**
	600 lb.	36"	26"	34"	33½"	Red	Tough Guy	**33W324**
17.80 cu. ft.	600 lb.	40"	28"	34"	27½"	Blue	Royal	**9JER1**
19.40 cu. ft.	600 lb.	40"	28"	36½"	30"	Blue	Royal	**9GFD7**
	600 lb.	40"	28"	36½"	30"	Red	Royal	**9JEP6**

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Brand	Item No.
Phenolic Caster Wheel/Tread							
1,600 lb	48 in	24 in	9 in	39 ¼ in	6 in	GA	**3BE78**
	54 in	27 in	9 in	39 ¼ in	6 in	GA	**3BE79**
2,000 lb	48 in	24 in	9 in	39 in	5 in	Jamco	**16C688**
	48 in	24 in	9 in	39 in	6 in	GA	**13X490** *
	48 in	30 in	9 in	39 in	5 in	Jamco	**16C692**
	48 in	30 in	9 in	39 in	6 in	GA	**13X491**
	60 in	30 in	9 in	39 in	5 in	Jamco	**16C693**
	60 in	30 in	9 in	39 in	6 in	GA	**13X492** *
3,600 lb	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN57**
4,000 lb	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN56**
Polyolefin Caster Wheel/Tread							
2,500 lb	60 in	30 in	11 ¼ in	42 ¼ in	8 in	GA	**3BE80**
Polyurethane Caster Wheel/Tread							
1,200 lb	32 in	18 in	6 in	34 in	5 in	GA	**13X507** *
	36 in	24 in	6 in	34 in	5 in	GA	**13X508** *
	36 in	24 in	12 ⅞ in	40 in	8 in	GA	**49DM83**
	48 in	24 in	6 in	34 in	5 in	GA	**13X509** *
	48 in	24 in	7 ¾ in	35 ½ in	5 in	Little Giant	**8DK84**
	48 in	24 in	11 ⅜ in	38 ½ in	8 in	GA	**49DM98**
	72 in	24 in	12 ⅞ in	40 in	8 in	GA	**49DN29**
	72 in	30 in	9 in	39 in	5 in	Jamco	**16C665**
	72 in	36 in	11 ⅜ in	38 ½ in	8 in	GA	**49DP34**
1,400 lb	36 in	18 in	9 ¼ in	36 ⅜ in	5 in	GA	**49DN52**
	36 in	30 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN50**
	48 in	18 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN48**
	48 in	24 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN27**
	48 in	30 in	9 ¼ in	36 ⅜ in	5 in	GA	**49DN53**
	48 in	36 in	9 ¼ in	36 ⅜ in	5 in	GA	**49DN54**
	60 in	24 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN22**
	60 in	30 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN28**
	60 in	36 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN51**
	72 in	24 in	7 ¾ in	34 ⅞ in	5 in	GA	**49DN49**
1,500 lb	48 in	30 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DN02**
2,000 lb	36 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN55**
2,400 lb	48 in	18 in	11 ⅜ in	38 ½ in	8 in	GA	**49DN43**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN58**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM94**
3,600 lb	36 in	24 in	10 ⅝ in	37 ¾ in	6 in	GA	**49DN08**
	48 in	24 in	10 ⅝ in	37 ¾ in	6 in	GA	**49DN09**
	48 in	24 in	11 in	40 in	8 in	Little Giant	**16D330**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN70**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN71**
	60 in	30 in	12 ⅝ in	39 ¾ in	8 in	GA	**49DN10**
	72 in	36 in	11 in	40 in	8 in	Little Giant	**16D349**
4,000 lb	48 in	24 in	11 ¼ in	42 ¼ in	8 in	GA	**3BE81**
	60 in	30 in	14 in	43 ½ in	8 in	GA	**13X501** *

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Brand	Item No.
Rubber Caster Wheel/Tread							
750 lb	42 in	24 in	6 ¼ in	41 ½ in	5 in	GA	**3BE77**
1,200 lb	36 in	18 in	11 ⅜ in	38 ½ in	8 in	GA	**49DP40**
	36 in	24 in	7 ¾ in	35 ½ in	5 in	Little Giant	**9T869**
	36 in	24 in	12 in	42 in	8 in	GA	**13X483**
	36 in	24 in	12 ½ in	41 ½ in	9 in	Little Giant	**16D327**
	48 in	24 in	11 ⅛ in	38 ½ in	8 in	GA	**49DM90**
	48 in	24 in	12 in	42 in	8 in	GA	**13X484** *
	48 in	24 in	12 ⅞ in	40 in	8 in	GA	**49DM84**
	48 in	30 in	11 ⅜ in	38 ½ in	8 in	GA	**49DN59**
	48 in	30 in	12 in	42 in	8 in	Jamco	**16C633**
	48 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**19C192**
	60 in	24 in	12 in	42 in	8 in	GA	**13X485** *
	60 in	24 in	12 ½ in	41 ½ in	9 in	Little Giant	**19G872**
	60 in	30 in	12 in	42 in	8 in	GA	**13X486**
	60 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**16D347**
	60 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**19C195**
	60 in	36 in	11 ⅜ in	38 ½ in	8 in	GA	**49DN44**
	72 in	30 in	11 ⅜ in	38 ½ in	8 in	GA	**49DN85**
	72 in	36 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DN60**
1,500 lb	36 in	24 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D326**
	36 in	24 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DM85**
	48 in	24 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D331**
	48 in	24 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DM87**
	48 in	30 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D337**
	60 in	30 in	8 ⅛ in	35 ¼ in	5 in	GA	**49DP37**
	60 in	30 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D344**
	60 in	30 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DM92**
	72 in	30 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DN03**
	72 in	36 in	13 ⅞ in	40 ⅞ in	10 in	GA	**49DN04**
1,600 lb	48 in	24 in	11 ¾ in	42 ¾ in	9 in	GA	**3BE83**
2,000 lb	36 in	24 in	9 ⅛ in	36 ¼ in	6 in	GA	**49DM86**
	48 in	24 in	9 in	38 in	6 in	Little Giant	**16D335**
	48 in	30 in	9 in	38 in	6 in	Little Giant	**16D341**
	60 in	24 in	9 ⅛ in	36 ¼ in	6 in	GA	**49DN86**
	60 in	30 in	9 in	38 in	6 in	Little Giant	**16D348**
	60 in	30 in	9 ⅛ in	36 ¼ in	6 in	GA	**49DP26**
	60 in	36 in	9 in	38 in	6 in	Little Giant	**19G876**
	72 in	30 in	9 in	38 in	6 in	Little Giant	**19G875**
	72 in	36 in	9 in	38 in	6 in	Little Giant	**19G877**
2,400 lb	36 in	24 in	11 in	40 in	8 in	Little Giant	**19G864**
	36 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN83**
	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM88**
	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM89**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM91**
	60 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN80**
	60 in	30 in	11 in	40 in	8 in	Little Giant	**16D345**
	60 in	36 in	11 in	40 in	8 in	Little Giant	**19G871**
	60 in	36 in	11 ⅜ in	40 ¾ in	8 in	GA	**49DN45**
	60 in	36 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN82**
	72 in	30 in	11 in	40 in	8 in	Little Giant	**19G870**
	72 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN81**
	72 in	36 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM95**
	72 in	36 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM96**
2,500 lb	60 in	30 in	13 ¾ in	44 ¾ in	10 in	GA	**3BE84**
3,000 lb	60 in	30 in	14 in	43 ½ in	8 in	GA	**13X497** *
3,600 lb	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DN68**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	GA	**49DM93**

4 swivel, 2 rigid casters.

GA GRAINGER APPROVED · Jamco Products · LITTLE GIANT

General Purpose Steel-Deck Platform Trucks

Platform trucks with a steel deck provide good strength for transporting a wide variety of materials. They are commonly used for moving raw materials, packages, tools, and equipment in warehouses, factories, loading docks, stock rooms, and mail rooms. All have two swivel and two rigid casters, except as noted.


No. 16D330


No. 13X486

RAYMOND PRODUCTS · Dayton · LITTLE GIANT · GA GRAINGER APPROVED

Narrow Steel-Deck Platform Trucks

These platform trucks have a long, narrow steel deck with tall handles at the ends. Also called U-boat platform trucks, they are used for moving tall stacks of packaged goods and other boxed items. The trucks can pivot 360° when maneuvering in tight spaces such as aisles in warehouses, supermarkets, retail stores, and stock rooms. All have four swivel and two rigid casters, except as noted.


No. 4VMC5

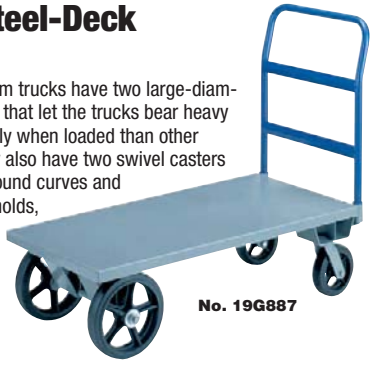
Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Color	Brand	Item No.
Solid Deck with Ribbed Surface								
1500 lb.	54"	16¼"	—	33¾"	Rubber	Gray	Raymond Products	**4ADJ2** *
Solid Deck with Smooth Surface								
2000 lb.	48"	16"	10¾"	60¼"	Polyurethane	Red	Dayton	**4VMC7**
			10¾"	60¼"	Polyurethane	Gray	Dayton	**4VMC9**
			10"	58"	Polyurethane	Blue, Gray	Little Giant	**19G785**
			10"	58"	Polyurethane	Blue, Gray	Little Giant	**49Y571**
		24"	11⅛"	57¼"	Rubber	Gray	GA	**49DN78**
	60"	16"	10¾"	60¼"	Polyurethane	Red	Dayton	**4VMC5**
		24"	10¾"	60¼"	Polyurethane	Red	Dayton	**4VMC6**
		16"	10¾"	60¼"	Polyurethane	Gray	Dayton	**4VMC8**
			10"	58"	Polyurethane	Blue, Gray	Little Giant	**19G786**
		24"	10"	58"	Rubber	Blue, Gray	Little Giant	**19G789**
		16"	10"	58"	Polyurethane	Blue, Gray	Little Giant	**49Y572**
	72"	18"	11⅛"	57¼"	Polyurethane	Gray	GA	**49DN01**
	63½"	16"	9½"	61¾"	Polyurethane	Red	Dayton	**4VMD7**

4 swivel casters.

GA GRAINGER APPROVED · LITTLE GIANT

High-Capacity Steel-Deck Platform Trucks

High-capacity steel-deck platform trucks have two large-diameter, rigid, axle-mounted wheels that let the trucks bear heavy loads and start rolling more easily when loaded than other steel-deck platform trucks. They also have two swivel casters that allow them to maneuver around curves and obstacles. Suitable for moving molds, dies, metal sheets and coils, and other heavy equipment in industrial locations such as manufacturing plants, warehouses, and construction sites.


No. 19G887

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Solid Deck with Ribbed Surface							
1750 lb.	48"	30"	13⅞"	43¼"	Phenolic	GA	**49DP12**
	60"	36"	13⅞"	43¼"	Rubber	GA	**49DP14**
	72"	30"	13⅞"	43¼"	Rubber	GA	**49DP13**
Solid Deck with Smooth Surface							
2500 lb.	72"	30"	21"	41"	Rubber	Little Giant	**39E660**
3000 lb.	48"	24"	13⅜"	40¾"	Rubber	GA	**49DP07**
	48"	30"	13⅜"	40¾"	Phenolic	GA	**49DP08**
	48"	30"	13⅜"	43⅛"	Polyurethane	GA	**49DN23**
	48"	30"	18⅛"	48⅜"	Rubber	GA	**49DP05**
	60"	30"	13⅜"	40¾"	Phenolic	GA	**49DP09**
	60"	36"	13⅜"	40¾"	Phenolic	GA	**49DP10**
	60"	36"	16½"	43"	Rubber	Little Giant	**19G887**
	60"	36"	18⅛"	48⅜"	Rubber	GA	**49DP06**
	72"	30"	13⅜"	43⅛"	Rubber	GA	**49DN87**
	72"	36"	13⅜"	40¾"	Phenolic	GA	**49DP11**
4000 lb.	48"	30"	16½"	43"	Phenolic	Little Giant	**8NAT9**
5000 lb.	72"	30"	16½"	43"	Phenolic	Little Giant	**39E665**







suncast · LITTLE GIANT · Jamco Products · GA GRAINGER APPROVED

High-Maneuverability Steel-Deck Platform Trucks

High-maneuverability steel-deck platform trucks have a caster configuration that lets them make tighter turns and navigate more easily in warehouse aisles and similar tight spaces than other styles of platform trucks. Carts with a **standard** or **diamond** caster/wheel configuration have two swivel casters and two rigid casters. Carts with a **6-wheel** caster/wheel configuration have four swivel casters and two rigid casters and provide more stability than carts with fewer casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Standard Caster/Wheel Mounting							
1000 lb.	36"	24"	11½"	40"	Polyurethane	Suncast	**48LW37**
	48"	24"	11½"	40"	Polyurethane	Suncast	**48LW38**
	60"	30"	—	40"	Polyurethane	Suncast	**48LW39**
2000 lb.	48"	24"	11½"	40"	Polyurethane	Suncast	**48LW40**
	60"	30"	—	40"	Polyurethane	Suncast	**48LW41**
Diamond Caster/Wheel Mounting							
1000 lb.	36"	24"	7¾"	35½"	Rubber	Little Giant	**8DFE3**
1200 lb.	36"	24"	9"	39"	Polyurethane	Jamco	**16C610**
	48"	24"	9"	39"	Polyurethane	Jamco	**16C611**
	60"	24"	9"	39"	Polyurethane	Jamco	**16C612**
	60"	30"	9"	39"	Polyurethane	Jamco	**16C616**
1400 lb.	32"	18"	7¾"	34⅞"	Polyurethane	GA	**49DN07**
	36"	30"	7¾"	34⅞"	Rubber	GA	**49DN41**
	48"	24"	7¾"	34⅞"	Polyurethane	GA	**49DN25**
	48"	36"	7¾"	34⅞"	Polyurethane	GA	**49DN42**
	60"	24"	7¾"	34⅞"	Rubber	GA	**49DN24**
6-Wheel Caster/Wheel Mounting							
3600 lb.	48"	24"	9⅛"	36¼"	Polyurethane	GA	**49DN15**
	48"	30"	9⅛"	36¼"	Polyurethane	GA	**49DN17**
	60"	24"	9⅛"	36¼"	Polyurethane	GA	**49DN16**
	60"	30"	9⅛"	36¼"	Polyurethane	GA	**49DN18**
	72"	36"	9⅛"	36¼"	Polyurethane	GA	**49DN19**

GA GRAINGER APPROVED

Combination Shelf & Platform Steel-Deck Platform Trucks

The long bottom deck on these platform trucks can accommodate bulky or lengthy items. The trucks' short upper shelves can hold tools, equipment, and other small items. All of these trucks have two swivel casters and two rigid casters.



Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
1200 lb.	48"	24"	8"	36⅝"	Rubber	**49DM82**
	60"	30"	8"	36⅝"	Polyurethane	**49DN26**

GA GRAINGER APPROVED

Steel-Deck Platform Trucks with Compact Folding Handles

The handles on these platform trucks fold down to save space when the trucks are not in use. These trucks are used in applications where they will be taken to different job sites or where there is minimal space for storing the carts. All have two swivel casters and two rigid casters.



Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Item No.
440 lb.	29⅜"	19"	5⅝"	45⅝"	4"	**33H178**
660 lb.	36"	24¼"	7"	47"	5"	**33H179**



LITTLE GIANT · DURHAM MFG Est. 1922 · GA GRAINGER APPROVED

Load-Securing Steel-Deck Platform Trucks

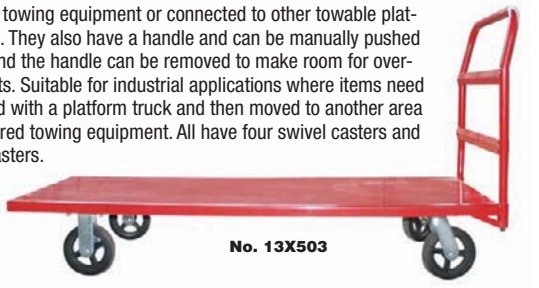
These steel-deck platform trucks have side panels that install onto three or four sides of the trucks' deck to keep items from falling off while the trucks are moving. The panels can be removed to facilitate loading and unloading. All of these trucks have two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
(3) Removable Panels							
2,000 lb	48 in	24 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V42**
	60 in	30 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V38**
3,600 lb	48 in	24 in	9 ⅛ in	42 ¾ in	Rubber	GA	**49DP15**
	48 in	30 in	9 ⅛ in	42 ¾ in	Polyurethane	GA	**49DP16**
	60 in	24 in	9 in	45 in	Rubber	Little Giant	**49Y509**
	60 in	30 in	9 ⅛ in	42 ¾ in	Polyurethane	GA	**49DP17**
(4) Removable Panels							
2,000 lb	48 in	24 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V44**
	60 in	30 in	—	38 ¼ in	Rubber	Durham Mfg	**488V40**

GA GRAINGER APPROVED

Towable Steel-Deck Platform Trucks

Towable platform trucks have a drawbar and hitch and can be attached to towing equipment or connected to other towable platform trucks. They also have a handle and can be manually pushed or pulled, and the handle can be removed to make room for oversized objects. Suitable for industrial applications where items need to be picked with a platform truck and then moved to another area using powered towing equipment. All have four swivel casters and two rigid casters.



Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
2000 lb.	60"	30"	11"	41"	Rubber	**13X503**
	60"	36"	11"	41"	Rubber	**13X504**
	72"	30"	11"	41"	Rubber	**13X505**
	72"	36"	11"	41"	Rubber	**13X506**



Truck w/ Ribbed Surface
No. 5PVZ6



Narrow Truck w/ Smooth Surface & Tall Handles
No. 22NP38

Dayton MAGLINER® NEWAGE INDUSTRIAL

Aluminum-Deck Platform Trucks

Aluminum-deck platform trucks resist corrosion and are lighter than platform trucks with stainless-steel or steel decks. **Compact folding handles** collapse to save space when storing the trucks. **Extendable decks** can be pulled out to allow the trucks to carry large items. **Narrow decks** can maneuver in aisles and other tight spaces. **Tall handles** prevent tall stacks of packaged goods and other boxed items from falling off the trucks as they're moving.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.	
Platform Trucks								
Solid Deck with Ribbed Surface								
2,000 lb	36 in	24 in	8 ½ in	41 in	Polyolefin	Dayton	**13X471**	
	48 in	24 in	8 ½ in	41 in	Polyolefin	Dayton	**13X472**	*
	48 in	30 in	8 ½ in	41 in	Polyolefin	Dayton	**13X473**	
	60 in	30 in	8 ½ in	41 in	Polyolefin	Dayton	**13X474**	
	60 in	36 in	8 ½ in	41 in	Polyolefin	Dayton	**13X475**	*
2,400 lb	60 in	30 in	12 in	44 in	Rubber	Dayton	**13X476**	*
	60 in	36 in	12 in	44 in	Rubber	Dayton	**13X477**	
	72 in	36 in	12 in	44 in	Rubber	Dayton	**13X478**	
2,800 lb	36 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ6**	
	48 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ8**	
	48 in	30 in	9 ½ in	41 in	Thermoplastic Rubber	Magliner	**5PWA0**	
Solid Deck with Smooth Surface								
2,000 lb	36 in	24 in	10 in	42 in	Rubber	Dayton	**13X463**	
	48 in	24 in	10 in	42 in	Rubber	Dayton	**13X464**	
	48 in	30 in	10 in	42 in	Rubber	Dayton	**13X465**	
	60 in	36 in	10 in	42 in	Rubber	Dayton	**13X467**	
2,800 lb	36 in	24 in	12 ½ in	39 in	Rubber	Magliner	**5PVZ5**	
	48 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ7**	
	48 in	30 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ9**	
3,000 lb	60 in	30 in	11 ½ in	44 in	Phenolic	Dayton	**13X468**	
	72 in	36 in	11 ½ in	44 in	Phenolic	Dayton	**13X470**	
Platform Trucks with Compact Folding Handles								
Grated Deck with Ribbed Surface								
1,500 lb	61 ⅛ in	23 ¼ in	10 in	39 in	Thermoplastic Rubber	Magliner	**59UZ05**	*
Solid Deck with Ribbed Surface								
330 lb	29 ½ in	18 ½ in	7 ¾ in	35 ¾ in		GA	**33H180**	
	30 in	18 in	6 in	35 ½ in	Rubber	GA	**2PLG4**	*
400 lb	30 in	18 ½ in	7 ⅜ in	33 ½ in	Polyurethane	GA	**36JP52**	
550 lb	35 ½ in	24 in	7 ¾ in	37 ⅜ in	Polyurethane	GA	**33H181**	
	36 in	24 in	7 ¾ in	37 ½ in	Rubber	GA	**2PLG5**	
660 lb	48 in	24 in	7 ¾ in	37 ½ in	Rubber	GA	**2PLG6**	
770 lb	60 in	30 in	7 ¾ in	37 ½ in	Rubber	GA	**2PLG7**	*
Tube Deck with Smooth Surface								
300 lb	16 ½ in	16 in	6 ½ in	9 in	Rubber	GA	**49EL85**	
Platform Trucks with Compact Folding Handles & Extendable Deck								
Tube Deck with Smooth Surface								
250 lb	19 ¾ in	17 ½ in	6 ½ in	37 ½ in	Rubber	GA	**2TUT8**	
Platform Trucks with Narrow Deck								
Solid Deck with Smooth Surface								
1,200 lb	60 in	16 in	10 in	59 in	Thermoplastic Rubber	Magliner	**22NP38**	*
1,800 lb	60 in	18 in	10 in	59 in	Thermoplastic Rubber	Magliner	**22NP39**	*
Platform Trucks with Narrow Deck & Folding Handles								
Solid Deck with Smooth Surface								
1,200 lb	61 in	18 in	9 ⅛ in	63 in	Polyurethane	New Age	**12G971**	*

** (4) swivel, (2) rigid casters.*

High-Strength Stainless-Steel-Deck Platform Trucks

Jamco Products

GA GRAINGER APPROVED

Platform trucks with a stainless-steel deck are stronger and more corrosion-resistant than aluminum-deck platform trucks, and they have a polished finish that eases cleanup. Suitable for labs, medical facilities, food- and beverage-manufacturing plants, and other areas where the trucks will be cleaned and washed down often. All have two swivel and two rigid casters.



No. 2TUH3

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Brand	Item No.
1200 lb.	30"	18"	9"	39"	Rubber	5"	Jamco	**8CA55**
	36"	18"	9"	39"	Polyurethane	5"	GA	**2TUH3**
		24"	9"	39"	Polyurethane	5"	GA	**2TUH4**
		24"	9"	39"	Polyurethane	5"	Jamco	**8CA56**
		24"	9"	39"	Phenolic	5"	Jamco	**9NP54**
	48"	24"	9"	39"	Polyurethane	5"	GA	**2TUH5**
		24"	9"	39"	Polyurethane	5"	Jamco	**8CAE9**
		24"	9"	39"	Rubber	5"	Jamco	**9EVL7**
	60"	30"	9"	39"	Polyurethane	5"	GA	**2TUH6**
		30"	9"	39"	Rubber	5"	Jamco	**9CHK7**
		30"	9"	39"	Rubber	5"	Jamco	**9PN48**

General Purpose Wooden-Deck Platform Trucks

Jamco Products WESTWARD Dayton

Wooden-deck platform trucks make less noise and are less likely to damage delicate materials and finishes on products carried on the trucks than metal-deck platform trucks. **General purpose** trucks are suitable for a wide range of applications. They have two swivel and two rigid casters unless noted otherwise. **Narrow tall-handle** trucks are used for moving tall stacks of packaged goods and other boxed items. They have a combination of two rigid casters and four swivel casters and can pivot 360° when maneuvering in warehouse aisles and other tight spaces.



Platform Truck
No. 8WC38



Narrow Truck w/ Tall Handles
No. 4VMD1

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Brand	Item No.	
General Purpose Wooden-Deck Platform Trucks									
1,200 lb	48 in	24 in	11 ½ in	35 ⅞ in	Rubber	8 in	Fairbanks	**8ZLX9**	
	60 in	30 in	10 in	40 in	Polyurethane	5 in	Jamco	**16C575**	
1,400 lb	30 in	18 in	8 ½ in	32 ⅞ in	Rubber	5 in	Fairbanks	**9WTU0**	
	48 in	24 in	8 ½ in	32 ⅞ in	Phenolic	5 in	Fairbanks	**8WC38**	
	48 in	24 in	14 in	36 ¼ in	Rubber	10 in	Westward	**48XK58**	
	48 in	30 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK69**	
	60 in	30 in	8 ½ in	32 ⅞ in	Polyurethane	5 in	Fairbanks	**9E653**	
	60 in	30 in	11 ½ in	39 ⅛ in	Rubber	8 in	Fairbanks	**9NWZ6**	
	60 in	30 in	14 in	36 in	Polyurethane	10 in	Westward	**48XK50**	
	60 in	30 in	14 in	36 ¼ in	Rubber	10 in	Westward	**48XK52**	
	72 in	36 in	8 ½ in	32 ⅞ in	Polyurethane	5 in	Fairbanks	**8EKZ7**	
1,800 lb	72 in	36 in	18 in	43 in	Rubber	12 in	Fairbanks	**18F440**	
2,000 lb	48 in	24 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK57**	
	48 in	24 in	11 ½ in	34 ¼ in	Rubber	8 in	Westward	**48XK59**	
	48 in	30 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK67**	
	54 in	27 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK55**	
	60 in	30 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK51**	
	60 in	30 in	11 ½ in	34 ¼ in	Rubber	8 in	Westward	**48XK53**	
	72 in	36 in	11 ½ in	33 ½ in	Plastic	8 in	Westward	**48XK66**	
	72 in	36 in	11 ½ in	35 ⅞ in	Rubber	8 in	Fairbanks	**9RYW1**	
	72 in	36 in	12 in	35 ⅞ in	Polyurethane	5 in	Fairbanks	**9WTP3**	
2,200 lb	72 in	36 in	9 ¼ in	34 ¼ in	Plastic	6 in	Fairbanks	**18F436**	
2,500 lb	60 in	30 in	11 ½ in	36 ½ in	Plastic	8 in	Fairbanks	**18F434**	
2,600 lb	48 in	24 in	8 ½ in	30 ⅜ in	Plastic	5 in	Westward	**48XK65**	
	48 in	24 in	8 ½ in	31 ¼ in	Plastic	5 in	Westward	**48XK62**	
	54 in	27 in	8 ½ in	30 ¾ in	Plastic	5 in	Westward	**48XK64**	
	54 in	27 in	8 ½ in	31 ¼ in	Plastic	5 in	Westward	**48XK61**	
2,800 lb	60 in	30 in	9 ¼ in	31 ¼ in	Plastic	6 in	Westward	**48XK63**	
	60 in	30 in	9 ¼ in	32 ¼ in	Rubber	6 in	Westward	**48XK60**	
	60 in	30 in	14 in	39 in	Rubber	12 in	Fairbanks	**18F442**	†
Narrow Wooden-Deck Platform Trucks for Confined Spaces									
2,000 lb	48 in	16 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD3**	*
	60 in	16 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD1**	*
	60 in	24 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD2**	*

** 2 rigid, 4 swivel casters † 2 swivel, 2 axle-mounted casters*

High-Capacity Wooden-Deck Platform Trucks

Jamco Products

These wooden-deck platform trucks have large, rigid axle-mounted wheels that let them bear heavier loads and start rolling more easily when loaded than trucks with smaller wheels of a similar construction. They also have swivel casters that allow them to maneuver around curves and obstacles. Suitable for moving molds, dies, metal sheets and coils, and other heavy industrial equipment.



No. 18F444

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Brand	Item No.
2500 lb.	48"	24"	20"	36"	Rubber	12"	Jamco	**16C140**
	60"	30"	20"	36"	Rubber	12"	Jamco	**16C141**
4000 lb.	48"	24"	18"	43"	Rubber	6"	Fairbanks	**18F444**
	60"	30"	18"	43"	Rubber	6"	Fairbanks	**18F445**
	72"	36"	18"	43"	Rubber	6"	Fairbanks	**18F446**

Load-Securing Wooden-Deck Platform Trucks

Jamco Products

Load-securing wooden-deck platform trucks have side panels that install onto three or four sides of the trucks' deck to keep items from falling off while the trucks are moving. The panels can be removed to facilitate loading and unloading. All of these trucks have two swivel casters and two rigid casters.



No. 9WJE4

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Item No.
(3) Removable Panels							
1200 lb.	48"	24"	10"	40"	Polyurethane	5"	**16C057**
(4) Removable Panels							
1200 lb.	48"	24"	10"	40"	Polyurethane	5"	**8DV33**
	60"	30"	10"	40"	Polyurethane	5"	**9WJE4**



DURHAM MFG Est. 1922

LITTLE GIANT

Work-Height Wooden-Deck Platform Trucks

Work-height wooden-deck platform trucks have high decks that minimize lifting and bending when moving items between the trucks and high surfaces such as storage racks, work tables, conveyors, or receiving stations. All have two swivel and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Caster Wheel Dia.	Brand	Item No.
1800 lb.	48"	24"	26½"	40⅛"	Rubber	8"	Durham Mfg	**443X62**
	48"	24"	26¾" to 35¾"	49⅜"	Rubber	8"	Durham Mfg	**443X60**
	60"	30"	26½"	40⅛"	Rubber	8"	Durham Mfg	**443X63**
	60"	30"	26¾" to 35¾"	49⅜"	Rubber	8"	Durham Mfg	**443X61**
2000 lb.	48"	24"	24" to 34"	48"	Rubber	6"	Little Giant	**49Y652**
	48"	24"	26"	40"	Polyurethane	6"	Little Giant	**49Y651**
	48"	30"	24" to 34"	48"	Rubber	6"	Little Giant	**49Y656**
	48"	30"	26"	40"	Rubber	6"	Little Giant	**49Y655**
	60"	24"	24" to 34"	48"	Rubber	6"	Little Giant	**49Y654**
	60"	24"	26"	40"	Rubber	6"	Little Giant	**49Y653**
	60"	30"	24" to 34"	48"	Rubber	6"	Little Giant	**49Y658**
	60"	30"	26"	40"	Rubber	6"	Little Giant	**49Y657**





Rubbermaid Commercial Products | Dayton | AKRO-MILS® | Jamco Products

General Purpose Plastic-Deck Platform Trucks

The plastic deck on these platform trucks resists damage from impacts and exposure to chemicals and moisture. The trucks have a high strength-to-weight ratio and are used in settings such as retail stores, warehouses, construction sites, and manufacturing facilities. All have two swivel and two rigid casters unless noted otherwise. **Single-end** trucks have one handle. **Dual-end** trucks have two handles.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Solid Deck with Ribbed Surface							
Single End							
1000 lb.	36"	24"	9¼"	39¾"	Polyolefin	Rubbermaid	**4AAU8**
1200 lb.	48"	24"	11¼"	41¾"	Polyolefin	Rubbermaid	**4AAV6**
	60"	30"	11¼"	41⅝"	Thermoplastic Rubber	Rubbermaid	**4AAV4**
2000 lb.	36"	24"	9¼"	39¾"	Thermoplastic Rubber	Rubbermaid	**4AAU9**
	48"	24"	11¼"	41¾"	Polyolefin	Rubbermaid	**4AAV1**
	48"	24"	9"	39½"	Rubber	R.W. Rogers	**6WZL7**
	60"	30"	11¼"	41⅝"	Polyolefin	Rubbermaid	**4AAV3**
	60"	30"	9"	40½"	Rubber	R.W. Rogers	**6WZL8**
2500 lb.	48"	24"	11¼"	41¾"	Thermoplastic Rubber	Rubbermaid	**4AAV2**
	60"	30"	11¼"	41⅝"	Rubber	Rubbermaid	**4AAV5**
Dual Ends							
880 lb.	60"	30"	11"	40"	Polyurethane	Dayton	**2TUL3**
2200 lb.	60"	30"	11"	40"	Polyurethane	Dayton	**2TUL1**
Solid Deck with Smooth Surface							
Single End							
2000 lb.	48"	24"	12¼"	41½"	Polyurethane	Akro-Mils	**44U434**
2500 lb.	48"	24"	10"	40"	Phenolic	Jamco	**20WU28**
	60"	30"	10"	40"	Phenolic	Jamco	**20WU29**
3000 lb.	48"	24"	12¼"	41½"	Polyolefin	Akro-Mils	**44U462**
	60"	30"	10¼"	39½"	Polyurethane	Akro-Mils	**44U439**
	60"	30"	12¼"	41½"	Polyolefin	Akro-Mils	**44U468**
Dual Ends							
880 lb.	60"	30"	11"	40"	Polyurethane	Dayton	**2TUL2**
2200 lb.	60"	30"	11"	40"	Polyurethane	Dayton	**2TUK9**
3300 lb.	60"	30"	11"	40"	Polyurethane	Dayton	**2TUK7**
	60"	30"	11"	40"	Polyurethane	Dayton	**2TUK8** *

** (4) Swivel, (2) Rigid casters.*





SNAP-LOC | GA GRAINGER APPROVED | Rubbermaid Commercial Products

Load-Securing Plastic-Deck Platform Trucks

Load-securing plastic-deck platform trucks have either built-in E-track fittings or removable side panels. **E-track fittings** provide anchor points for attaching compatible straps to tie down large or bulky items. They can also be used with compatible mini-straps to connect multiple trucks together to create a larger truck. **Side panels** install onto all sides of the trucks' deck to keep items from falling off while the trucks are moving. They can be removed to facilitate loading and unloading.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster/Wheel Configuration	Caster Wheel/Tread Material	Brand	Item No.
With E-Track Fittings								
Solid Deck with Non-Slip Surface								
1500 lb.	32"	20½"	7"	38"	(2) Swivel with Brake, (2) Rigid	Polyurethane	Snap-Loc	**40AL31**
	32"	20½"	7"	38"	(2) Swivel with Brake, (2) Rigid	Polyurethane	Snap-Loc	**20UY86**
	32"	20½"	7"	38"	(2) Swivel with Brake, (2) Rigid	Polyurethane	Snap-Loc	**40AL28**
	32"	20½"	9½"	40½"	(2) Swivel with Brake, (2) Rigid	Polyurethane	Snap-Loc	**40AL25**
1200 lb.	32"	20½"	7"	34"	(4) Swivel	Polyolefin	GA	**45NC08**
With Side Panels								
Solid Deck with Ribbed Surface								
2000 lb.	48"	24"	8"	41"	(2) Swivel, (2) Rigid	Polyolefin	Rubbermaid	**4AAN1**

GA GRAINGER APPROVED

Plastic-Deck Platform Trucks with Compact Folding Handles



The handles on these platform trucks fold down to save space when the trucks are not in use. These trucks are used in applications where they will be taken to different job sites or where there is minimal space for storing the carts. All have a solid deck with ribbed surface as well as two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.	
330 lb	28 in	18 in	6 in	36 in	Rubber	**2TUT3**	*
	28 in	18 in	6 in	36 in	Rubber	**2TUT5**	
660 lb	36 in	23 ½ in	8 in	38 in	Rubber	**2TUT4**	*
	36 in	23 ½ in	8 in	38 in	Rubber	**2TUT6**	

** Includes locking foot brake.*

Nestable Plastic-Deck Platform Trucks



Nestable plastic-deck platform trucks have slanted, tapered decks that can raise in the back to allow multiple trucks to be pushed together to save space when the trucks are not in use. All of these trucks have a solid deck with ribbed surface.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
2000 lb.	60"	30"	9"	40½"	Rubber	**6WZN0**
	48"	24"	9"	39½"	Rubber	**6WZL9**



No. 26Y483



No. 26Y460



No. 26Y489

Jamco Products ★GA GRAINGER APPROVED

Steel-Deck Wagon Trucks

Wagon trucks are typically pulled instead of pushed, and they have a front-mounted handle that lets users guide heavy loads and maneuver them around corners. **Lipped** deck has a lipped edge that stops items from sliding off it. **Flush** deck lets heavy items slide onto or off of the deck to reduce effort during loading and unloading. **Flow-through** deck has openings that let debris and liquid fall through it to keep the trucks clean when used in dirty or wet areas. **Towable** trucks have a T-bar handle with a ring and can be manually pushed or connected to towing equipment for occasional low-speed towing applications. All of these trucks are constructed of 12-ga. steel and all ship assembled, except No. 26Y475.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Width	Wheel Type	Brand	Item No.
Wagon Trucks with Lipped Metal Deck							
T-Shaped Handle							
2,000 lb	48"	24"	19"	25"	12" Pneumatic	Jamco	**8D334**
		30"	16½"	30"	12" Pneumatic	GA	**26Y470**
3,000 lb		24"	18½"	24"	16" Pneumatic	GA	**26Y471**
	72"	36"	18½"	36"	16" Pneumatic	GA	**26Y474**
J-Shaped Handle							
1,000 lb	36"	24"	11¼"	24"	10"-Standard	GA	**26Y475**
		24"	11¼"	24"	10"-Standard	GA	**26Y483**
Wagon Trucks with Flush Metal Deck							
T-Shaped Handle							
2,000 lb	48"	24"	16½"	24"	12" Pneumatic	GA	**26Y460**
		30"	16½"	30"	12" Pneumatic	GA	**26Y465**
	60"	30"	16½"	30"	12" Pneumatic	GA	**26Y461**
	72"	36"	16½"	36"	12" Pneumatic	GA	**26Y462**
3,000 lb	48"	30"	18½"	30"	16" Pneumatic	GA	**26Y466**
	60"	30"	18½"	30"	16" Pneumatic	GA	**26Y467**
	72"	36"	18½"	36"	16" Pneumatic	GA	**26Y468**
3,500 lb	48"	24"	16½"	24"	12"-Standard	GA	**26Y457**
	60"	30"	16½"	30"	12"-Standard	GA	**26Y458**
	72"	36"	16½"	36"	12"-Standard	GA	**26Y459**
Wagon Trucks with Flow-Through Lipped Metal Deck							
J-Shaped Handle							
1,000 lb	36"	24"	11¼"	24"	10"-Standard	GA	**26Y489**
		24"	11¼"	24"	10" Pneumatic	GA	**26Y490**
Towable Wagon Trucks with Flush Metal Deck							
T-Shaped Handle							
2,500 lb	48"	30"	18½"	30"	16" Pneumatic	GA	**26Y485**
	60"	30"	18½"	30"	16" Pneumatic	GA	**26Y486**



No. 12X312



No. 12X315

★GA GRAINGER APPROVED

Wagon Trucks with Flow-Through High-Volume Side-Panel Metal Deck

- Overall height, with sides: 21 ½ in (No. 12X312); 26 in (No. 12X313); 24 in (No. 12X315)

The perforated metal deck on these wagon trucks has openings that let debris and liquid fall through it, which helps keep the wagons clean when used in dirty or wet areas. The wagons' side walls stop loads from falling off and can be folded down or removed to reduce straining and lifting when loading or unloading heavy items. The trucks ship unassembled.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Width	Wheel Dia.	Wheel Type	Item No.
400 lb.	34"	18"	13½"	20"	10"	Pneumatic	**12X312**
1000 lb.	48"	22"	16⅜"	24"	13"	Pneumatic	**12X313**
1400 lb.	60"	31"	15¼"	31"	13"	Pneumatic	**12X315**



Bins sold separately, available on Grainger.com

★GA GRAINGER APPROVED

Wire-Spool Dispensing Cart

This cart has spindles that hold spools of wire and allow quick access for replacing spools. Wire guides under the cart's work surface hold wire ends for dispensing and cutting. The cart has louvered panels for attaching bins, shelves, and other optional accessories that hold items that are not stored on spools. Shipped assembled. 1200-lb. load capacity. Comes with two swivel and two rigid casters.



Overall Length	Overall Width	Overall Height	Item No.
32¼"	18⅛"	46⅛"	**5LVF8**

GB Gardner Bender

Two-Wheel Wire-Dispensing Carts

These carts have two semipneumatic wheels and can be tilted and rolled like a hand truck. They have multiple spindles that hold wire and other materials stored on reels or spools. The spindles can be removed when replacing spools and reels. Wire guides keep the ends of wires accessible and organized for dispensing.



No. 15V950

Load Capacity	No. of Spindles	Overall Length	Overall Width	Overall Height	Item No.
300 lb.	4	22"	16"	43"	**15V949**
400 lb.	5	22"	18½"	43"	**15V950**
700 lb.	5	22"	18½"	45"	**15V951**



A-Frame
No. 4ZJ29



Single-Height w/ Adjustable Rails
No. 30F040



Single-Height w/ Fixed Rails
No. 4ZJ28



Single-Height w/ Nonmarring Adjustable Rails
No. 30F027



Sloped-Frame
No. 423P52

Panel Trucks

GA GRAINGER APPROVED · Dayton · LITTLE GIANT · Rubbermaid Commercial Products · DURHAM MFG Est. 1922

The frame on these trucks supports long, thin panels or sheets. Also known as drywall carts, these trucks are used to store or move items such as drywall, plywood, glass panels, and partitions. The trucks' flush platform lets items slide onto and off of the carts during loading and unloading. All have two swivel and two rigid casters, unless noted otherwise. **A-frame** and **sloped-frame** trucks allow panels to lean toward the trucks' center to keep them balanced during transport. Sloped-frame trucks can be loaded from one side. A-frame trucks can be loaded from two sides. **Single-height vertical** trucks keep panels oriented at 90° to the trucks' deck and are all the same height. **Adjustable rails** can be repositioned or removed to make room for items of different sizes and save space when storing the trucks. **Fixed rails** uprights cannot be moved. **Nonmarring rails** have a vinyl coating that helps prevent damage to delicate finishes or surfaces.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	Number of Rails	Brand	Item No.	
A-Frame Panel Trucks								
2000 lb.	48½"	30"	56½"	9⅛"	1	GA	**1TGN2**	†
	48½"	57"	24"	10⅝"	1	GA	**16C867**	*
	75½"	36½"	55"	8¼"	—	Dayton	**4ZJ29**	
3600 lb.	60"	24"	57"	9⅛"	—	Little Giant	**39E673**	†
Single-Height Vertical Panel Trucks with Adjustable Rails								
1000 lb.	39½"	24½"	34"	7⅝"	3	GA	**19C202**	
1400 lb.	31"	28"	34½"	10"	3	GA	**2TUJ6**	†
	31½"	28½"	34"	7⅝"	3	GA	**2TUJ5**	†
1500 lb.	54"	16½"	35"	7¼"	2	Dayton	**30F041**	
2000 lb.	31½"	28½"	34"	8⅛"	3	GA	**2TUJ4**	†
	48"	24"	39"	11¼"	3	Rubbermaid	**4AAL6**	
	51½"	30"	36"	9⅛"	2	GA	**8RML0**	
	63½"	30"	36"	9⅛"	2	GA	**8DVA8**	
3200 lb.	54"	30"	38½"	7¼"	4	Dayton	**30F040**	†
3600 lb.	39½"	24"	36"	9⅛"	2	GA	**5DZA1**	
	51½"	24"	36"	9¼"	—	GA	**5DZA2**	
	51½"	30"	36"	9⅛"	3	GA	**8DVA9**	
	63½"	30"	36"	9⅛"	2	GA	**5DZA5**	
	63½"	36"	36"	9⅛"	2	GA	**5DZA6**	
	75½"	24"	36"	9⅛"	2	GA	**49Y486**	
	75½"	30"	36"	9⅛"	2	GA	**49Y487**	
Single-Height Vertical Panel Trucks with Fixed Rails								
1500 lb.	30"	27½"	44"	7¾"	4	Dayton	**4ZJ27**	
4000 lb.	35½"	30½"	38"	8½"	3	Dayton	**4ZJ28**	
Single-Height Vertical Panel Trucks with Nonmarring Adjustable Rails								
2400 lb.	38½"	27½"	34"	6"	3	Dayton	**30F022**	
	38½"	27½"	34"	6"	3	Dayton	**30F027**	†
	38½"	27½"	34"	6"	3	Dayton	**30F024**	
	38½"	27½"	56"	6"	3	Dayton	**30F035**	
Sloped-Frame Panel Trucks								
2000 lb.	44"	24"	51"	13½"	—	GA	**5DYZ2**	†
	48"	24"	45"	10½"	—	Rubbermaid	**4AAK8**	
3000 lb.	47½"	20½"	43½"	13¼"	1	Durham Mfg	**459W36**	†
	47½"	23½"	50"	13¼"	1	Durham Mfg	**423P52**	‡
	47½"	23½"	50"	13¼"	1	Durham Mfg	**459W34**	†
	47½"	30"	52"	13¼"	1	Durham Mfg	**459W33**	
	47½"	30"	52"	13¼"	1	Durham Mfg	**459W35**	†

** 2 swivel casters with brake, 2 rigid casters. † 4 swivel casters.*
‡ 2 swivel casters with brake, 2 swivel casters



Bar Cradle Truck
No. 4DPZ9



Mobile Bar & Pipe Rack
No. 4GA96

GA GRAINGER APPROVED · Jamco Products · GREENLEE

Bar and Pipe Trucks

Bar and pipe trucks are used to organize, store, and transport pipe, bar stock, and other long items.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	No. of Levels	Brand	Item No.	
Cradle-Style Bar & Pipe Trucks								
Phenolic Wheels								
3000 lb.	24"	28"	34½"	20"	1	GA	**4DPZ9**	†
	36"	28"	34½"	20"	1	GA	**49Y537**	†
	48"	28"	34½"	20"	1	GA	**49Y538**	†
5000 lb.	60"	28"	30½"	15½"	1	GA	**19C146**	
10,000 lb.	60"	28½"	30½"	15½"	1	GA	**16A957**	
	96"	28½"	30½"	15½"	1	GA	**16A958**	
Mobile Bar & Pipe Racks								
Rubber Wheels								
4000 lb.	48"	36"	59"	11"	3	Jamco	**9TAP7**	
	72"	36"	59"	11"	3	Jamco	**8EFY9**	
Polyolefin Wheels								
1000 lb.	58½"	34"	63½"	61½"	4	Greenlee	**4GA96**	
Phenolic Wheels								
1200 lb.	63"	30"	74"	9"	3	GA	**6HHZ5**	†
3600 lb.	48"	36"	59½"	11⅛"	3	GA	**4DRA1**	‡
	60"	36"	59½"	11⅛"	3	GA	**4DRA2**	‡
	72"	36"	59½"	11⅛"	3	GA	**4DRA3**	‡
4000 lb.	48"	36"	59½"	11⅛"	3	GA	**16C885**	*
	60"	36"	59½"	11⅛"	3	GA	**16C886**	

** 2 swivel casters with brake, 2 rigid casters. † 4 swivel casters. ‡ 4 swivel casters with brake.*

GA GRAINGER APPROVED

V-Groove Cradle-Style Bar and Pipe Truck



V-shaped cradle holds large sizes or bundles of long materials and prevents round items from rolling off the truck. Also known as a bar and pipe dolly and big-wheel cradle truck, this truck has two large pneumatic wheels that can roll over rough terrain or flooring. The truck's T-handle is used to push the truck and control its movement, and it is offset so the operator walks alongside the truck instead of behind it.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	Item No.
1200 lb.	58"	34½"	36"	17"	**19C219**

Dayton · GA GRAINGER APPROVED

Table Carts

Vertical divider rails span the length of these carts to support round and rectangular tables that are being transported on the carts. The rails can be removed to reduce effort during loading and unloading. The carts' frames have been coated with smooth vinyl to prevent damage to tables on the carts.



No. 30F002

Load Capacity	Overall Length	Overall Width	Overall Height	For Maximum Number of Vertical Tables	Caster/Wheel Configuration	Brand	Item No.
1000 lb.	48"	36"	52¼	36	(4) Swivel With Brake	Dayton	**30F008**
1600 lb.	48"	24"	52"	—	(2) Swivel, (2) Rigid	GA	**4ADC7**
	48"	32¾"	51¼"	33	(4) Swivel With Brake	Dayton	**30F002**



GA GRAINGER APPROVED

Steel Mobile Service Bench

- Assembly required
- 500-lb. load capacity
- 2" shelf lips
- 2 swivel, 2 rigid casters

Features 4 hanging plastic bins and a built-in tool caddy in the handle. Drawers can be locked with a padlock (not included).

Overall Height	Shelf Length	Shelf Width	Overall Width	Work Surface Height	Item No.
34"	28"	16"	16"	34"	**6YE55**



No. 5LVH9



No. 5LVH8

GA GRAINGER APPROVED

Welded Steel Mobile Workstations

- Shipped assembled
- Casters (2 swivel, 2 rigid)
- Gray powder-coat finish

Load Capacity	D	W	H	Caster Material	Caster Dia.	Item No.
Mobile Workstations, Steel						
300 lb	23 ¼ in	24 ⅜ in	49⅜ in	Polyurethane	5 in	**49Y095**
4,000 lb	30 in	60 in	40 in	Phenolic	3 in	**49Y091**
	30 in	72 in	40 in	Phenolic	3 in	**49Y092**
	36 in	60 in	40 in	Phenolic	3 in	**49Y093**
Mobile Workstations, Stainless Steel						
300 lb	23 ¼ in	24 ⅜ in	49⅜ in	Polyurethane	5 in	**49Y096**
Workbench w/Pegboard Panel, Steel						
1,200 lb	42 ½ in	24 ½ in	66 in	Polyurethane	5 in	**5LVH9**
4,000 lb	30 in	60 in	40 in	Phenolic	3 in	**49Y088**
Workbench w/Louvered Panel, Steel						
1,200 lb	42 ½ in	18 ½ in	67 in	Polyurethane	5 in	**49Y085**
	42 ½ in	24 ½ in	66 in	Polyurethane	5 in	**5LVH8**
4,000 lb	36 in	60 in	40 in	Phenolic	3 in	**49Y090**

WESTWARD®

Mobile Cabinet Workbench

- Shipped assembled
- 5"-dia. casters (2 swivel, 2 rigid)
- Gray powder-coat finish
- Cabinet measures 25⅜"H x 16$^{13}/_{16}$"W
- (4) 15⅝"W x 14$^{11}/_{16}$"D x 5⅞"H drawers

W	D	H	Item No.
36 in	24 in	36 ⅜ in	**52CK63**



GA GRAINGER APPROVED

Mechanical Work Stands

- Polyurethane swivel casters, 2 double locking
- Nos. 11A566 and 11A567 have a red finish
- Nos. 2WTR4 and 2WTR3 have blue powder-coat platform and base

Platform height and tilt angle are manually adjusted.



No. 2WTR3

Load Capacity	W	D	Height	Lip Height	Tilting Angle	Item No.
150 lb.	21"	20"	28" to 38"	2"	45°	**11A566**
300 lb.	24"	20"	31½" to 42"	3"	30°	**11A567**
330 lb.	16"	20"	28" to 42"	1¼"	40°	**2WTR4**
330 lb.	19"	20"	20" to 28"	1¼"	40°	**2WTR3**



No. 5CHN2



No. 16A706

GA GRAINGER APPROVED

Mobile Worktables

- Wood and powder-coat steel construction

Mobile Worktables—Gray and black. No. 5CHN2 includes flip-and-fold board with brackets.

- Shipped partially assembled
- Nos. 49Y116, 16A706, and 16A705 feature dual-folding extension boards
- Laminated work surface
- Casters (2 rigid, 2 swivel with brake)



No. 49Y120

Load Capacity	No. of Shelves	D	W	H	Item No.
Mobile Worktables					
200 lb.	1	20"	40"	35" to 42"	**16A699**
	1	20"	46"	38¾"	**5CHN2**
	1	26"	20"	35" to 42"	**16A697**
	1	26"	68"	35" to 42"	**49Y116**
	1	54"	20"	35" to 42"	**16A698**
300 lb.	1	18"	46"	35" to 42"	**16A696**
	1	26"	51"	35" to 40"	**16A706**
	1	26"	87"	35" to 40"	**16A705**
Shop Desk					
300 lb.	—	24"	26¼"	49"	**49Y120**

GA GRAINGER APPROVED

Welded Steel Mobile Work Desk

- Shipped assembled
- 3" polyurethane swivel casters

Lockable security cage cabinet.

Load Capacity	D	W	H	Item No.
150 lb.	22"	22"	50⅛"	**1DE91**





No. 6YE51



No. 6YE53

GA GRAINGER APPROVED

Mobile Service Benches

- 5" casters (2 locking swivel, 2 rigid)
- Doors lock with included key
- Gray powder-coat finish

Feature removable top with steel back and end stops. Recessed-handle with roller drawers.

Description	Load Capacity	D	W	H	Drawer Width	Drawer Height	Drawer Depth	Door Cabinet Width	Door Cabinet Height	Item No.
2 Doors, Tubular Handle	1200 lb.	18"	36"	36½"	—	—	—	18"	26"	**6YE51**
Wood Top, 1 Door, 4 Drawers, Tubular Handle	1200 lb.	18"	36"	38⅜"	20⁷⁄₁₆"	5⅞"	14¹¹⁄₁₆"	11⅛"	24¼"	**6YE53**



No. 4VM51

LISTA

Modular Mobile Service Benches

- Shipped assembled; just attach handles
- 6" casters (2 swivel, 2 rigid)
- Steel construction with powder-coated finishes

Choose stainless steel, rubber mat, or 1¾" hardwood working surface. Drawers automatically latch when closed. All cabinets feature patented PrevenTip® lock that prevents cabinets from tipping over. Cabinets with 17 drawers and up have 6 casters (4 swivel, 2 rigid).

Description	Width	Depth	Height	Work Surface Material	Drawer Width	Usable Drawer Height	Color	Item No.
165 lb. Drawer Load Rating								
5 Drawers	22¼"	28½"	35½"	Rubber Mat	18"	(2) 2", (2) 3", (1) 5", (1) 7"	Classic Blue	**3W545**
5-Drawers, 1-Door	39"	28½"	37¼"	Butcher Block	18"	—	Classic Blue	**4VM51**
6 Drawers	28¼"	22½"	43¼"	Butcher Block	24"	(2) 2", (2) 3", (1) 5", (1) 9"	Bright Blue	**4VZU3**
440 lb. Drawer Load Rating								
6 Drawers	40¼"	22½"	43¼"	Rubber Mat	36"	(2) 2", (2) 3", (1) 5", (1) 9"	Bright Blue	**4VZT8**
10 Drawers	60"	28"	42"	Butcher Block	(3) 52³⁄₁₆", 3-18", (4) 43"	(3) 2", (3) 3", (2) 4", (1) 5", (1) 10"	Bright Blue	**52JU47**
	60"	28"	42"	Stainless Steel	(3) 52³⁄₁₆", 3-18", (4) 43"	(3) 2", (3) 3", (2) 4", (1) 5", (1) 10"	Bright Blue	**52JU48**
11 Drawers	60"	28"	42"	Butcher Block	52³⁄₁₆", (4) 18", (6) 43"	(4) 2", (2) 3", (2) 4", (2) 5", (1) 11"	Bright Blue	**52JU49**
13 Drawers	60"	28"	48"	Butcher Block	(3) 52³⁄₁₆", (4) 18", (6) 43"	(3) 2", (5) 3", (2) 4", (1) 5", (1) 11"	Bright Blue	**52JU55**
14 Drawers	60"	28"	48"	Butcher Block	52³⁄₁₆", (6) 18", (7) 43"	(4) 2", (5) 3", (2) 4", (2) 5", (1) 11"	Bright Blue	**52JU57**
	60"	28"	48"	Stainless Steel	52³⁄₁₆", (6) 18", (7) 43"	(4) 2", (5) 3", (2) 4", (2) 5", (1) 11"	Bright Blue	**52JU58**
17 Drawers	82¼"	28"	42"	Butcher Block	(3) 52³⁄₁₆", (3) 18", (5) 43", (6) 24"	(4) 2", (4) 3", (2) 4", (1) 8", (1) 12"	Bright Blue	**52JU51**
	82¼"	28"	42"	Stainless Steel	(3) 52³⁄₁₆", (3) 18", (5) 43", (6) 24"	(4) 2", (4) 3", (2) 4", (1) 8", (1) 12"	Bright Blue	**52JU52**
21 Drawers	82¼"	28"	48"	Stainless Steel	(3) 52³⁄₁₆", (4) 18", (6) 43", (8) 24"	(5) 2", (8) 3", (4) 4", (1) 5", (1) 9", (1) 12"	Bright Blue	**52JU60**
23 Drawers	82¼"	28"	48"	Butcher Block	52³⁄₁₆", (6) 18", (7) 43", (9) 24"	(7) 2", (8) 3", (5) 4", (2) 5", (1) 11"	Bright Blue	**52JU61**



No. 4YW33



No. 4YW40



No. 1AAF6



No. 1AAF7

GA GRAINGER APPROVED

tennsco Storage Made Easy

Steel Mobile Service Benches

- Shipped assembled
- Casters included (2 locking swivel, 2 rigid)
- Drawer locking system with included keys

Drawers open easily on sliding glides.

Description	Load Capacity	W	D	H	Drawer Width	Drawer Height	Drawer Depth	Door Cabinet Width	Door Cabinet Height	Door Cabinet Depth	Item No.
GA											
1 Door, 1 Drawers	1000 lb.	36"	22"	34"	18¾"	5¼"	20"	11"	26¼"	21"	**4YW34**
	1000 lb.	45"	22"	34"	18¾"	5¼"	20"	19¼"	26¼"	21"	**4YW39**
	1200 lb.	36"	18"	38⅜"	20⁷⁄₁₆"	5⅞"	14¹¹⁄₁₆"	11⅛"	24.25"	18"	**49Y079**
	1200 lb.	36"	18"	38⅜"	20⁷⁄₁₆"	5⅞"	14¹¹⁄₁₆"	11⅛"	24¼"	18"	**49Y082**
1 Door, 2 Drawers	1000 lb.	23"	22"	34"	18¾"	5¼"	20"	19½"	15"	21"	**4YW38**
1 Door, 4 Drawers	1,200 lb.	36"	18"	36½"	20⁷⁄₁₆"	5⅞"	14¹¹⁄₁₆"	11⅛"	24¼"	18"	**4YW33**
	1200 lb.	36"	18"	38⅜"	20⁷⁄₁₆"	5⅞"	14¹¹⁄₁₆"	11⅛"	24¼"	18"	**49Y081**
1 Door, 6 Drawers	1200 lb.	52¾"	19"	40¼"	(2) 20⁷⁄₁₆	(2) 4⅞", (4) 2⅛"	14¹¹⁄₁₆"	24¼"	11"	17⅞"	**16D884**
2 Door, 8 Drawers	4000 lb.	66"	33"	33⅞"	29⁹⁄₁₆"	(4) 4"; (2) 6"; (2) 8"	14⅛"	26"	24¾"	13⁷⁄₁₆"	**1TGL7**
2 Doors	1200 lb.	42"	24"	37¾"	—	—	—	36"	21⅛"	21⅛"	**1TGL5**
	2000 lb.	66"	24"	37¾"	—	—	—	48"	24"	24"	**1TGL6**
8 Drawers	1000 lb.	45"	22"	34"	18¾"	5¼"	20"	—	—	—	**4YW40**
Tennsco											
1 Door Cabinet, 3 Drawer Pedestal, 1 Door Cabinet	1000 lb.	48"	25"	43"	13½"	(2) 6¹¹⁄₁₆", (1) 13½"	22"	15"	32"	24"	**1AAF6**
1 Door Cabinet, 4 Drawer Pedestal, 1 Door Cabinet	1000 lb.	38"	25"	43"	13½"	6¹¹⁄₁₆"	22"	15"	32"	24"	**1AAF5**
2 Door Cabinet	1000 lb.	33"	25"	43"	12⅝"	—	—	30"	32"	24"	**6YE44**
4 Drawer Pedestal,1 Door Cabinet, 4 Drawer Pedestal	1000 lb.	48"	25"	43"	13½"	6¹¹⁄₁₆"	22"	15"	32"	24"	**1AAF7**
20 Bin Cabinet, 1 Door Cabinet, 3 Drawer Pedestal	1000 lb.	48"	25"	43"	13½"	(2) 6¹¹⁄₁₆", (1) 13½"	22"	15"	32"	24"	**6YE41**
20 Bin Cabinet, 2 Door Cabinet	1000 lb.	48"	25"	43"	5½"	4⁹⁄₁₆"	13¾"	30"	32"	24"	**6YE42**





GA GRAINGER APPROVED

Rolling Garment Racks

- Steel construction
- Shipped unassembled

Description	Holds	D (in.)	W (in.)	H (in.)	Item No.
Rolling Garment Racks					
Nesting, Z-Rack	Up to 24 Garments	24	48	72	**14A059**
Collapsible Adjustable, Z-Rack	Up to 36 Garments	24	40	56-73	**5CHV7**
Nesting, Z-Rack	Up to 48 Garments	24	63	72	**5CHV4**
Adjustable Rack with Wire Basket	Up to 18 Garments	20	34	51-69	**14A063**
Collapsible Adjustable, Rack	Up to 24 Garments	22	50½	56, 61, 66	**5CHV8**
Accessories					
Middle Hang Bar For Use With No. 14A059					**14A060**
Middle Hang Bar For Use With No. 5CHV4					**5CHV6**
Bumper Set For Use With 14A059 and 5CHV4					**14A061**

GA GRAINGER APPROVED

Plastic Shopping Basket

- 12¼"W x 18¼"L x 8⅝"D
- Sold in pkg. of 12

Polyethylene hand basket holds items for customers as they shop in grocery, convenience, and department stores. The basket's metal handles are coated with PVC for a comfortable grip. Sign and display stand included.

▶CHOOSE: Color	Item No.
Black, Green, Blue, Red, Gray	**G1931**







GA GRAINGER APPROVED

Manual and Motorized Wheelchair Shopping Carts

These carts carry customers and their purchases as they shop. The carts have a wire basket where riders can place items, and they have vinyl-covered seats that can be wiped down for cleaning.

Manual Wheelchair Cart—Wheelchair cart is propelled by hand and can navigate tight spaces such as aisles more easily than motorized carts. 315-lb. total weight capacity.

Value Shopper and Smart Shopper Motorized Carts—Motorized carts are propelled by a battery-powered electric motor and require less effort to move than wheelchair carts. 625-lb. total weight capacity.

Finish	Overall Length	Overall Width	Overall Height	Item No.
Manual Wheel Chair				
Chrome	47"	26¾"	38"	**4YFE6**
Motorized Value Shopper - Front Wheel Drive				
Silver	55"	24"	35"	**4YFE1**
Red	55"	24"	35"	**4YFD8**
Blue	55"	24"	35"	**4YFD9**
Green	56"	24"	33"	**5DYH0**
Motorized Smart Shopper - Rear Wheel Drive				
Silver	56"	24"	33"	**4YFE2**
Red	56"	24"	33"	**4YFE4**

GA GRAINGER APPROVED

Shopping Carts and Cart Corrals

WIRE SHOPPING & PLATFORM CARTS

Two-tier cart has two vertically stacked wire baskets that can hold groceries and other items. This compact cart can navigate crowded aisles and tight spaces more easily than platform shopping carts. Made from powder-coated steel. **Platform carts** have a flat wire deck that holds large or bulky flat items such as cartons, bulk containers, and large bags. All are made from zinc-plated steel.

CART CORRALS

Galvanized steel cart corrals keep shopping carts organized and contained when not in use. They help prevent loss or damage to carts by providing a place for customers to return empty carts. No tools required for assembly.

Description	Load Capacity	Overall Length	Overall Width	Overall Height	Brand	Item No.
Two-Tier Shopping Cart						
With Two 20⅝"L x 17½"W x 9⅞", 6½"H Baskets	300 lb.	29"	22½"	41½"	R.W. Rogers Company, Inc	**6PPZ9**
Platform Carts						
With 25½"L x 19"W x 7"H Top Basket	90 lb.	36½"	19"	41"	GA	**3HGF7**
Without Basket	90 lb.	52"	29"	43½"	GA	**3HGF9**
With 26"L x 11"W x 15½"H Top Basket	275 lb.	59½"	29"	37"	GA	**3HGF8**
Cart Corrals						
Single Wide	—	14 ft.	32"	8 ft.	GA	**4YFD7**
Double Wide	—	14 ft.	5' 6"	8 ft.	GA	**4YFD6**









No. 2TRJ7

METRO
We put space to work.

Medical Exchange Carts

Exchange carts are used to transport and store linens and supplies in healthcare facilities. Wire mesh shelves and walls let air circulate through the carts, keep their contents visible, and allow dirt to fall through to keep them clean. The shelves' height can be adjusted to fit different supplies based on the changing needs of patient populations. Bins, dividers, and other optional accessories can be added to organize items on the shelves. All have two standard swivel casters and two swivel casters with a brake, unless noted otherwise.

Load Capacity	Overall Height	Shelf Length	Shelf Width	Caster Dia.	Includes	Item No.
4 Shelves						
750 lb.	69"	48"	24"	8"	Super Slide, (4) Shelf Dividers, (2) 6" Tote Boxes	**2TRJ9**
1000 lb.	70½"	60"	24"	6"	Enclosure Panels, Aluminum Dolly Frame	**2TRK2** *
5 Shelves						
750 lb.	68"	48"	24"	5"	Super Slide, (4) Shelf Dividers, (2) 6" Tote Boxes	**2TRJ7** *
750 lb.	68"	60"	24"	5"	(2) Super Slides, (6) Shelf Dividers, (4) 6" Tote Boxes	**2TRJ8**
750 lb.	69"	60"	24"	8"	(2) Super Slides, (6) Shelf Dividers, (4) 6" Tote Boxes	**2TRK1**

**** 4 swivel casters.***



No. 20UY91

Rubbermaid Commercial Products

Space-Saving Basket Trucks with Removable Mildew-Resistant Vinyl Liner

The frame on these basket trucks collapses to save space when storing the trucks. The trucks' removable vinyl liners attach to the frame and can be replaced with a new one when they become damaged or dirty. Vinyl liners resist mold, mildew, UV-damage, and tears. They are also flame-retardant, but other parts of these trucks may not be. No. 20UY93 has compartments for sorting materials. All have four swivel casters.

No. of Compart.	Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Removable Vinyl Liner Basket Truck							
1	5.00 cu. ft.	220 lb.	24⅛"	20¼"	34"	1881749	**20UY91**
1	10.00 cu. ft.	220 lb.	37¾"	24⅛"	34"	1881750	**20UY92**
2	10.00 cu. ft.	220 lb.	37¾"	24⅛"	34"	1881781	**20UY93**
Replacement Liner							
Mfr. No. 1881749, 1881781			15¼"	22⅜"	27¼"	1881782	**20UY94**
Mfr. No. 1881750			35½"	22⅜"	27¼"	1881783	**20UY95**



No. 2HEJ4

ROYAL BASKET TRUCKS

Collecting Carts

Lightweight, collapsible carts have vinyl and vinyl mesh bags that fit securely over 1" powder-coated steel tubular frame. Antimicrobial bags are flame-retardant and resist mildew, UV-damage, and tears. All have four 3" polyolefin casters.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Color	VINYL Item No.	VINYL MESH Item No.
7.5 cu. ft.	150 lb.	22"	20"	35½"	Blue	**22E952**	**22E956**
	150 lb.	22"	20"	35½"	Green	**22E955**	**22E959**
	150 lb.	22"	20"	35½"	Red	**22E953**	**22E957**
	150 lb.	22"	20"	35½"	White	**22E954**	**22E958**
10.0 cu. ft.	150 lb.	26"	21"	35½"	Blue	**2HEJ4**	**22E948**
	150 lb.	26"	21"	35½"	Green	**22E947**	**22E951**
	150 lb.	26"	21"	35½"	Red	**2HEJ5**	**22E949**
	150 lb.	26"	21"	35½"	White	**2HEJ6**	**22E950**



No. 22E976



No. 19D629

ROYAL BASKET TRUCKS

Poly Bulk Laundry Trucks

- Drain holes for easy drainage and cleaning
- 6" casters
- 48 cu. ft. volume capacity

Bulk Poly Trucks—Large-capacity carts carry bulky, hard-to-handle items. Ideal for hospital and hotel laundry or bulk supplies.

Convertible Poly Trucks—Two movable shelves can be positioned horizontally or vertically for three different configurations. When shelves are vertical, the lower shelf can be flipped out and up to ease unloading.



No. 19D630

Security Poly Truck—Includes two fixed shelves with locking door.

Load Capacity	Overall Length	Overall Width	Overall Height	Caster Type	Item No.
Bulk Poly Trucks					
800 lb.	48"	28"	68½"	(4) Swivel	**2HEJ7**
800 lb.	50½"	28"	66¾"	(4) Swivel	**22E976**
Convertible Poly Trucks					
800 lb.	48"	28"	68½"	(2) Rigid, (2) Swivel	**2HEG4**
—	50½"	28"	66¾"	(2) Rigid, (2) Swivel	**19D629**
800 lb.	50½"	28"	54¾"	(4) Swivel	**19D631**
Security Poly Truck					
800 lb.	50½"	28"	67"	(2) Swivel, (2) Rigid	**19D630**



Pallet Trucks

GA GRAINGER APPROVED

Dayton®

Dayton® pallet trucks feature a cushion grip with a 3-position lever and a flow valve for controlled lowering. Push rods are fixed with no adjustment needed. 4mm-thick steel with reinforced fork bracing and sealed ball bearings on wheels.

Standard—Nos. 490Z06 and 445K83 have a quick-lift operation for loads under 300 lbs. No. 12U123 includes a fingertip-actuated hand brake for safety and security on ramps or inclined surface. No. 30LU68 has longer 70" forks.

Low-Profile—For easy access to pallets with 2"H opening.

Narrow—Narrow fork design with entry glides and exit rollers allows easier access to smaller pallets with decks up to 24"W.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Color	Brand	Item No.	
Standard										
3800 lb.	2 15/16"	7¾"	27"	15"	48"	6"	Blue	GA	**12U124**	
4400 lb.	2¾"	7½"	27"	14⅜"	48"	6¼"	Blue	GA	**5LA79**	
	3"	7¾"	27"	14½"	70"	6¼"	Red	Dayton	**30LU68**	
5000 lb.	2 15/16"	7¾"	27"	14½"	48"	6¼"	Blue	GA	**12U125**	
5500 lb.	2⅞"	7½"	27"	14⅜"	48"	6¼"	Red	Dayton	**490Z07**	
	2⅞"	7½"	27"	14⅜"	48"	6¼"	Red	Dayton	**490Z06**	†
	2 15/16"	7¾"	27"	14⅜"	36"	6 5/16"	Red	Dayton	**2TUR7**	
	2 15/16"	7¾"	27"	14⅜"	42"	6 5/16"	Red	Dayton	**2TUR5**	
	3"	7¾"	27"	14½"	48"	6¼"	Red	Dayton	**12U123**	*
	3"	8"	27"	15"	48"	6"	Gray	GA	**445K83**	†
6000 lb.	3"	7½"	27"	14⅜"	48"	27"	Red	Dayton	**493X18**	
8000 lb.	3"	7½"	27"	14⅜"	48"	27"	Red	Dayton	**493X17**	
Low Profile										
4400 lb.	1¾"	6¼"	33"	19"	48"	7"	Red	Dayton	**30LU67**	
	2"	6¾"	27"	14⅜"	48"	6 5/16"	Red	Dayton	**2ZE59**	
5000 lb.	1¾"	6¼"	27"	13"	48"	7"	Red	Dayton	**24L322**	
Narrow										
5500 lb.	2 15/16"	7¾"	20½"	7⅞"	36"	6 5/16"	Red	Dayton	**2TUR8**	
	2 15/16"	7¾"	20½"	7⅞"	42"	6 5/16"	Red	Dayton	**2TUR6**	
	2 15/16"	7¾"	20½"	7⅞"	48"	6 5/16"	Red	Dayton	**2ZE58**	
Low Profile, Narrow										
4400 lb.	2"	6¾"	20½"	7⅞"	48"	6 5/16"	Red	Dayton	**2ZE63**	

Includes hand brake. † Quick lift.



Dayton®

Weigh-and-Go Manual Pallet Jack

Accurately check load weight without a platform scale. Cushion grip with a 3-position lever and a flow valve for controlled lowering. Scale operates on (6) AA batteries.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Item No.
4400 lb.	3"	7½"	27¾"	13¼"	48"	7"	**54YG30**



Dayton®

Corrosion-Resistant Pallet Trucks

These manual pallet jacks are ideal for demanding environments. No. 2ZE62 is constructed of stainless steel, and works well for food processing, cleanrooms, and other applications requiring washdown. Nos. 2TUR4, 2TUR3 and 24L321 have steel frames for use in cold storage environments requiring cleanliness.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Item No.
4400 lb.	3"	7¾"	27"	14⅜"	48"	6 5/16"	**2ZE62**
5500 lb.	2 15/16"	7¾"	20½"	7⅞"	48"	6 5/16"	**2TUR4**
	2 15/16"	7¾"	27"	14⅜"	48"	6 5/16"	**2TUR3**
	3"	7½"	27"	14½"	48"	6¼"	**24L321**

Pallet Truck Accessories

GA GRAINGER APPROVED

Caddy—Transforms a standard pallet truck into a mobile workstation. Includes cup holder, pen and pencil tray, clipboard holder, tool pockets, and a storage compartment. Mounting hardware included.

Magnet Wedge—Secures an empty pallet truck to prevent damage in moving vehicles. Magnet used to store wedge on side of pallet truck.

Stop—Parking device keeps pallet truck in place to prevent damage in transit. Rubber construction for a firm grip on the trailer floor.

Description	Overall Length	Overall Width	Overall Height	Item No.
Caddy	8¾"	16⅛"	18⅜"	**2YA32**
Magnet Wedge	5¾"	4"	2¼"	**1XFD7**
Stop	13¾"	12"	1¾"	**33N455**


No. 2YA32


No. 1XFD7


No. 33N455


Adjustable Width
No. 36N196


Box Guard
No. 24L324


Confined Space
No. 24L323


For Coils
No. 30LU69

YELLOW JACK·IT™ GRAINGER APPROVED Dayton

Special-Application Pallet Trucks

Adjustable Width—Adjust the width of forks to accommodate all types of pallets. No. 36N996 adjusts manually without tools.

All Terrain—Lightweight, strong tubular frame truck evenly distributes loads. Large pneumatic wheels roll over most surfaces. Easy-to-operate 3-position handle.

Box Guard—Prevents accidental lifting of second pallet by lowering frame guard and reducing fork length by 9". Holds cargo in place.

Confined Space—Operator can use foor or hand to operate dual pump. Foot pump folds away for storage.

Quiet Operation—Ultra-quiet operation (less than 60 dB) for use in hospitals.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Color	Brand	Item No.
Adjustable Width									
2200 lb.	2 15/16"	7 11/16"	13" to 27"	4 to 18"	45 1/4"	4 1/2"	Yellow	Yellow Jack-It	**36N196**
5500 lb.	3"	7 3/4"	21" to 27"	9" to 15"	48"	6"	Gray	GA	**6JE31**
All Terrain									
2000 lb.	3"	9"	9 1/2" to 26"	1 1/2 to 18"	32"	4"	Yellow	GA	**2XY40**
Box Guard									
5500 lb.	3"	7 1/2"	27"	14 1/2"	48"	6 1/4"	Red	Dayton	**24L324**
Confined Space									
5500 lb.	3"	7 1/2"	27"	14 1/2"	48"	6 1/4"	Red	Dayton	**24L323**
For Coils									
4400 lb.	3 3/8"	7 1/2"	39 3/8"	24 1/2"	48"	6 1/4"	Red	Dayton	**30LU69**
Quiet Operation									
4400 lb.	2 15/16"	7 1/2"	27"	14 3/8"	48"	6 5/16"	Red	Dayton	**32HD10**
5500 lb.	2 15/16"	7 1/2"	27"	14 3/8"	48"	6 5/16"	Red	Dayton	**32HD11**



Dayton

Semi-Electric Pallet Racks

Engineered to help you move palletized loads with minimal effort. Designed for indoor use, it moves on 3"-dia. polyurethane rollers and a 7"-dia. polyurethane wheels. With electric dual-speed forward/reverse and manual hydraulic lift, the jack helps to move heavy loads with ease. Also features 3-position lever and pump handle. Loading limit valve helps prevent overload. An emergency braking system is included, along with a 24V battery and charger.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Item No.
3300 lb.	3 1/8"	4 1/2"	27"	14 3/8"	48"	6 1/4"	**487A11**


No. 32H818



No. 478N31



No. 478N30

BIG JOE Dayton

Motorized Pallet Trucks

Electric drive and lift mechanisms, variable forward/reverse speeds, and push-button operation require minimal operator effort. Include emergency braking system and key lock for safety. Include LED battery level meter and charger. Dual-load wheels.

Load Capacity	Fork Height Lowered	Fork Height Raised	Width Across Forks	Width Between Forks	Fork Size L	Fork Size W	Color	Brand	Item No.
3000 lb.	3"	7 1/2"	27"	15"	45"	6"	Black	Big Joe	**32H818**
4000 lb.	3"	7 3/4"	27"	14"	48"	6 3/4"	Red	Dayton	**478N31**
4500 lb.	3 1/4"	8"	27"	14"	48"	6 3/4"	Red	Dayton	**478N30**

Warehouse Vehicles

CUSHMAN

- To find replacement parts, go to Grainger.com®

Emission-free, fully electric vehicles help keep products, heavy materials, equipment, and people moving efficiently through your facility. Rugged construction features a powder-coated welded steel frame and diamond plate-patterned body with acrylic finish over polyester primer. Safety yellow color.

Titan® Series—Brawny, reliable 4-wheeled carriers have a spacious cargo deck to help boost productivity. Choose the versatile HD, or powerhouse XD model. HD model has rear wheel hydraulic drum brakes. XD models have front and rear hydraulic brakes.

Tug™ Series—3-wheeler easily and quietly tows large loads through confined aisles and spaces. The simple, responsive handlebar steering and comfortable seat helps reduce driver fatigue over a long shift. Cargo deck holds your tools and equipment. 2-wheel hydraulic drum brakes.

Minute Miser™—Quick 3-wheeled transport has a flip-down seat for an additional passenger or small cargo deck. Rear wheel mechanical drum brakes.

Stock Chaser™—Maneuverable 4-wheeler has a 9.6-sq.-ft. cargo deck and slim design to work its way through narrow aisles and standard doorways. Rear wheel mechanical drum brakes.


No. 35LR57


No. 35LR59


No. 35LR60

Description	HP	Overall Height	Overall Width	Overall Length	Cargo Box W x L x D	Seating Capacity	Vehicle Load Capacity	Towing Capacity	Power Source	Speed	Item No.
Titan Series											
Titan HD 2 Passenger 36V Electric	8	46"	44½"	114"	41½" x 75" x 2"	2	2500 lb.	4600 lb.	36VDC Battery	13 mph	**35LR54**
Titan XD 2 Passenger 48V Electric	17.2	47"	44½"	114"	41½" x 75" x 2"	2	3000 lb.	5000 lb.	48VDC Battery	14 mph	**35LR57**
Titan XD 4 Passenger 48V Electric	17.2	47"	44½"	114"	41½" x 53½" x 2"	4	3000 lb.	5000 lb.	48VDC Battery	14 mph	**35LR58**
Tug Series											
Cushman Tug - 5K	11.1	37"	34½"	76"	21" x 33½" x 1¾"	1	650 lb.	8000 lb.	48V Battery	7.8 mph	**35LR61**
Minute Miser											
Cushman Minute Miser	8	46"	30"	85"	23" x 29" x 4"	2	550 lb.	2000 lb.	24VDC Battery	10 mph	**35LR59**
Stock Chaser											
Cushman Stock Chaser	8	48"	29½	84"	29" x 48"	1	1000 lb.	5000 lb.	24VDC Battery	8.5 mph	**35LR60**

Electric Forklift Trucks

Compact 3-wheel electric trucks use 48VAC drive and hydraulics. Roomy ergonomic cab has wide-view mast, hydrostatic power steering with spinner knob, adjustable steering column, and adjustable suspension seat to ensure comfortable working position. Feature sideshift functionality, solid pneumatic tires for improved traction, and a high-visibility 3-stage mast.



No. 32H819

Load Capacity	Lifting Height Min.	Lifting Height Max.	Fork Size L	Fork Size W	Overall Length *	Item No.
2800 lb.	2"	189"	42"	4"	72½"	**32H819**
3500 lb.	2"	189"	42"	4"	76½"	**32H820**

Overall Length does not include forks.

Forklift Accessories

GA GRAINGER APPROVED IRONguard Protecting Your People

Seats feature adjustable backrest with suspension, fore and AFT side rail, document bag, and universal mount. Seat belts are retractable with 2" wide belt material. Safety light projects a blue warning light onto floor behind forklift to alert pedestrians. Strobe light includes impact-resistant casing with mounting plate. Head light includes adjustable mounting bracket. Safety front and side lights include adjustable mounting brackets. Tail light includes running, brake, and reverse light. Mirror is curved constructed of high-visibility impact-resistant material.


No. 19ND73


No. 19ND81

Load Capacity	Fork Thickness	Fork Width	Brand	Fork Length 36" Item No.	Fork Length 42" Item No.	Fork Length 48" Item No.	Fork Length 60" Item No.
Forklift Forks							
3000 lb.	1⅜"	4"	GA	**19ND73**	**19ND74**	**19ND75**	—
5000 lb.	1¾"	4"	GA	**19ND76**	**19ND77**	**19ND78**	**19ND79**

Description	Includes	Brand	Item No.
Forklift Seat and Seat Belts			
Forklift Seat	Mechanical Suspension Integrated Into Backrest	GA	**19ND80**
Forklift Seat Belt	Mounting Hardware	GA	**19ND81**
Premium Forklift Seat	Full Suspension with Dustproof Mantle, Weight Adjustment and Microswitch	GA	**19ND82**
Premium Forklift Seat Belt	Mounting Hardware	GA	**19ND83**


No. 19ND82


No. 19ND84

Item	Includes	For Use With	Brand	Item No.
Accessories				
Safety Light Blue LED	Mounting Hardware	Forklift Trucks	Ironguard	**48WH75**
Forklift Red Strobe Light	Wiring Lead	Forklift Trucks	GA	**19ND84**
Forklift Basic Head Light	Wiring Lead	Forklift Trucks	GA	**19ND86**
Safety Front Light	Mounting Hardware	Forklift Trucks	Ironguard	**53KJ79**
Safety Side Light	Mounting Hardware	Forklift Trucks	Ironguard	**53KJ78**
Forklift Basic Tail Light	Wiring Lead	Forklift Trucks	GA	**19ND87**
Forklift Mirror	Mounting Plate and Hardware	Forklift Trucks	GA	**19ND88**


No. 19ND87


No. 19ND88


No. 5UEW6


No. 5UEW3


No. 8E631

Fork Truck Work Platforms and Accessories

- 1000-lb. capacity
- Powder-coat finish

These work platforms are intended to be used to lift personnel along with light tools and equipment to allow work and inspections to be safely performed on elevated equipment. Include 42" railing, 4" toe guard, safety strap, and lock.

NOTE: OSHA requirement; before platform is purchased contact the manufacturer of the fork lift before using the platform, as the load label affixed to the forklift truck will need to accommodate the platform load.

DAYTON®

Feature autoclosing entry door with lanyard attachment rail. Double-Door models have 2 autoclosing entry doors, allowing access from both sides of platform.

BALLYMORE®

Heavy-duty forklifts feature 60"H screen that shields operator from the forklift mast. Rugged steel construction with a nonskid platform. Convenient 2" x 7" fork pockets are mounted on 29" centers. 4" swivel casters on base permit easy positioning. Ship flat in box for easy assembly or assembled.

ACCESSORIES

Sliding Tool Tray—¾" lip keeps tools and parts from sliding off.

Fluorescent Tube Caddy—Mounts to outside of side rails to hold fluorescent tubes. Not for use with No. 5UEW6.

Description	Base Length	Base Width	Overall Height	Item No.
Dayton Assembled Forklift Work Platform				
Single Door	36"	36"	66"	5UEW0
	48"	36"	66"	5UEW1
	48"	48"	66"	5UEW2
Double Door	37"	37"	66"	5UEW6
	36"	36"	66"	5UEW3
	48"	36"	66"	5UEW4
	48"	48"	66"	5UEW5
Ballymore Forklift Work Platform				
Unassembled	36"	36"	66"	8E631
	40"	48"	66"	8EFA4
	48"	36"	66"	9CRE2
Assembled	36"	36"	66"	8DZ92
	40"	48"	66"	8DZ93
	48"	36"	66"	8VXW4

Item	For Use With	L	W	H	Item No.
Dayton® Accessories					
Sliding Tool Tray	5UEW2	8¼"	49"	1¾"	5UEW8
Fluorescent Tube Caddy	5UEW0 5UEW1 5UEW2 5UEW3 5UEW4 5UEW5	10¼"	24½"	36"	5UEW9


Heavy-Duty


Low-Profile


Orbit Boom

Telescoping Fork Truck Booms

- Fork pockets on 24" centers
- 2 swivel safety latch lifting hooks
- Painted red finish

Include safety strap that secures boom to carriage of fork truck and 2 swivel hooks. Welded steel construction.

Heavy-Duty—Safety chain secures boom to carriage of fork truck.

Orbit—1-person height adjustments. Rotate for additional 6 ft. of usable height.

Low-Profile—Prevent overextension.

Max. Cap.	Horizontal Reach	Usable Fork Pocket W	Usable Fork Pocket H	Item No.
Heavy-Duty				
4000 lb.	80" to 12 ft. Adjustable in 7½" Increments	7¼"	2½"	4WYR6
6000 lb.		7"	2½"	4WYR7
Orbit				
4000 lb.	80" to 12 ft. Adjustable in 7½" Increments	7¼"	2½"	4WYR8
6000 lb.		7"	2½"	4WYR9
Low-Profile				
4000 lb.	52" to 90" Adjustable in 7½" Increments	7¼"	2½"	4WYT1
4000 lb.	80" to 12 ft. Adjustable in 7½" Increments	7¼"	2½"	4WYT2
6000 lb.		7"	2½"	4WYT3

MAXIMUM SINGLE HOOK BOOM CAPACITIES* (LBS.)

	HOOK POSITION									
Item No.	144"	132"	120"	108"	96"	84"	72"	60"	48"	36"
4WYR6, 4WYR8	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
4WYT3, 4WYR7, 4WYR9	1800	2000	2300	2600	3000	3500	4000	4500	5000	6000
4WYT1, 4WYT2	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000

LIFTING CAPACITY GUIDELINES IN LBS.
Distance from Mast Face to Load Center

Fork Truck Capacity†	6-ft.	8-ft.	10-ft.	12-ft.
2000	590	500	410	325
3000	925	800	675	550
4000	1400	1200	1000	800
5000	1725	1500	1275	1050
6000	2125	1850	1575	1300
7000	2565	2225	1885	1550
8000	3000	2600	2200	1800
9000	3350	2900	2450	2000
10,000	3900	3400	2900	2400

**Attaining max. capacities depends on the size and fork capacity of the fork truck used.*
†Consult your fork truck owner's manual to verify that truck meets or exceeds capacity listed.


No. 5UET5


No. 5UEU3


No. 5PVJ8


No. 5UEV4

Fork Truck Rams

GA GRAINGER APPROVED

Can be fork mounted with 7½"W x 2½"H fork pockets or carriage mounted with spring-loaded lock pin. Sturdy steel construction.

Coil Lifting Rams—Transport a variety of types of coiled materials and accommodate multiple core sizes.

Load Capacity	Pole Length	Pole Dia.	Carriage Class	Item No.
Coil Lifting Rams				
Fork Mounted-Inverted				
3000 lb.	24"	4½"	—	5UET5
	36"	4½"	—	5UET7
	48"	4½"	—	5UET9
	60"	4½"	—	5UEU1
5500 lb.	24"	5⅝"	—	5UET6
	36"	5⅝"	—	5UET8
	48"	5⅝"	—	5UEU0
	60"	5⅝"	—	5UEU2
Carriage Mounted				
3000 lb.	24"	4½"	2	5UEU3
	36"	4½"	2	5UEU5
	48"	4½"	2	5UEU7
	60"	4½"	2	5UEU9
5500 lb.	24"	5⅝"	2	5UEU4
	36"	5⅝"	2	5UEU6
	48"	5⅝"	2	5UEU8
	60"	5⅝"	2	5UEV0

Carpet Lifting Rams—High-strength, rotatable poles with tapered tips move rolls of carpet or rugs. Replaceable.

Load Capacity	Pole Length	Pole Dia.	Carriage Class	Item No.
Carpet Lifting Rams				
Fork Mounted-Inverted				
1800 lb.	144½"	2¾"	—	5PVK0
2200 lb.	120½"	2¾"	—	5PVJ9
2500 lb.	108½"	2¾"	—	5PVJ8
Fork Mounted				
1800 lb.	144½"	2¾"	—	5UEV3
2200 lb.	120½"	2¾"	—	5UEV2
2500 lb.	108½"	2¾"	—	5UEV1
Carriage Mounted				
1800 lb.	144½"	2¾"	2	5UEV6
	144½"	2¾"	3	5UEV9
2200 lb.	120½"	2¾"	2	5UEV5
	120½"	2¾"	3	5UEV8
2500 lb.	108½"	2¾"	2	5UEV4
	108½"	2¾"	3	5UEV7



No. 5TAF1

Fork Covers

Caldwell

Slide over and clip to fork to protect load from being marred or scratched. Constructed of nylon webbing.

Fork Length	Fork Width	Fork Height	Item No.
42"	4"	1½"	5TAF1
48"	5"	1½"	5TAF2
48"	6"	2"	5TAF3
54"	5"	1½"	5TAF4
84"	6"	4"	5TAF5

GA GRAINGER APPROVED

Fork Truck Lifting Hooks

Include belt, hook, and tightening bolt. Cast-steel construction. Zinc-plated finish.



Style	Load Capacity	Fork Pocket Size	Item No.
Single Fork, Single Swivel Hook	4000 lb.	2¼" H x 6½" W	22MW68
Double Fork, Single Swivel Hook	4000 lb.	2½" H x 6¾" W	22MW67
Double Fork, Single Swivel Hook	10,000 lb.	3½" H x 6¾" W	22MW69

GA GRAINGER APPROVED ★Dayton

Pallet Pullers

Pull pallet to the rear of a smooth truck floor for forklift access. 2¾"H heads are self-cleaning and unaffected by wood particles, paint, or grease. ¼" proof coil chain included. Steel construction.

Note: Not to be used for lifting.

Single Scissor Action—Allow for wider jaw opening. Overall closed length: 19½".

Double Scissor Action—1-pc. curved heads have integral spurs for gripping pallet stringers.



No. 3KR81



No. 2A093

Description	Pulling Capacity	For Stringers	Chain Length	Jaw Height	Brand	Item No.
Pallet Puller Single Scissor Action	3000 lb.	Up to 3½"	13"	2¼"	GA	21XU18
	5000 lb.	Up to 5½"	30"	2¾"	Dayton	3KR81
	6000 lb.	Up to 5"	12½"	1¾"	GA	21XU19
Pallet Puller Double Scissor Action	5000 lb.	Up to 3"	13"	2⅞"	GA	21XU20
	5000 lb.	Up to 3"	30"	2¾"	Dayton	2A093

GA GRAINGER APPROVED

Carousel Pallet Turns

Heavy-gauge steel carousels rotate pallets to facilitate stretch wrapping. 2"H.



No. 26W561

Load Capacity	Top Inside Dia.	Item No.
2000 lb.	26½"	26W561
2000 lb.	32½"	26W560
2000 lb.	36½"	26W557
4000 lb.	36½"	26W558
4000 lb.	44½"	26W562
6000 lb.	36½"	26W559



No. 3AA38



No. 35LU54



No. 35LU58

GA GRAINGER APPROVED ★Dayton

Fork Truck Fork Extensions

- Fit onto forks up to 2" thick
- Pkg. of 2

Include steel retaining strap and pin to prevent extensions from sliding off forks. Welded steel construction.

Note: See OSHA 29 CFR 1910.178(a)(4-5) and ASME/ANSI B.56.1-1992 (7.35) for application guidelines.

Fork Width	Extension Length	Min. Fork Length	Brand	Item No.
Fork Extensions				
Includes Steel Retaining Strap				
4"	48"	32"	GA	35LU28
	54"	36"	GA	35LU29
	60"	40"	Dayton	3AA38
	72"	48"	GA	2KFG8
	84"	56"	GA	35LU30
	90"	64"	GA	35LU31
	96"	64"	GA	2KFG9
	108"	64"	GA	35LU32
5"	48"	32"	GA	35LU35
	54"	36"	GA	35LU36
	60"	40"	Dayton	3AA41
	72"	48"	Dayton	3AA39
	84"	56"	GA	35LU37
	90"	64"	GA	35LU38
	96"	64"	GA	2KFH1
	108"	64"	GA	35LU39
6"	48"	32"	GA	35LU42
	63"	40"	GA	35LU44
	84"	56"	GA	35LU45
	90"	64"	GA	35LU46
	96"	64"	GA	2KFH2
	108"	64"	GA	35LU47
6½"	72"	48"	Dayton	3AA40
Includes Steel Retaining Pin				
4"	108"	64"	GA	35LU33
5"	120"	64"	GA	35LU34
	108"	64"	GA	35LU40
6"	120"	64"	GA	35LU41
	108"	64"	GA	35LU48
	120"	64"	GA	35LU49
Rounded Shaped Fork Extensions				
Includes Steel Retaining Strap				
4"	54"	36"	GA	35LU54
Rack				
Fork Extensions Rack			GA	35LU58



No. 5TAF6

Caldwell

Clamp-On Bucket Forks

Designed to add forklift capability to an end loader. Feature open fork design and tool-free attachment. For use on buckets without teeth. Blade must be less than ½" thick at the tip for proper attachment.

Load Capacity per Pair	Fork Length	Fork Width	Fork Height	Load Center	Overall Height	Item No.
1900 lb.	36"	3"	2"	18"	11⅛"	5TAF6
2500 lb.	42"	4"	2"	21"	11⅛"	5TAF7
5500 lb.	48"	5"	3"	24"	12⅛"	5TAF8

Disc Turntables

GA GRAINGER APPROVED

- Rotate pallets 360°
- Steel construction

Benchtop Turntables allow workers to quickly gain access to the different sides of the item being worked on. Plates rotate smoothly on ball bearings and include a serrated rubber top cover. Manual Turntables allow efficient loading and unloading of both pallet trucks and forklifts. Safety detent lock prevents the carousel from rotating when not in use.



No. 26W563

Load Capacity	Top Inside Dia.	H	Item No.
Benchtop Turntable			
300 lb.	18"	21 to 32"	26W568
500 lb.	12"	4"	26W566
1000 lb.	18"	⅞"	26W567
1000 lb.	24"	⅞"	26W565
Manual Turntable			
4000 lb.	45"	⅞"	26W564
4000 lb.	51"	⅞"	26W563



No. 4ZC17



No. 437J87



No. 444F36



No. 2RDN8



No. 4ZC16

SOUTHWORTH making work faster, safer, and easier

GA GRAINGER APPROVED

Stationary Pallet Level Loaders

SOUTHWORTH®

- 43⅝"-dia. top
- Built-in fork pockets make relocating easy

Low-friction, bearing-supported turntable top is easily rotated, with a center pivot and cross bar. No. 38TA15 includes vinyl bellows.

Pneumatic—Pressure-adjustable air bag automatically positions load with 75 psi of shop air.

- No. 4FE90 is powered with foot valve

Hydraulic—Work on standard 115V power. Nos. 444F36 and 444F37 are roll-on units for use with hand pallet trucks.

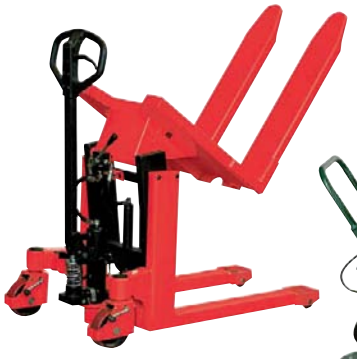
Compression Spring—No need for manual adjustments or tools.

Load Capacity	Lowered Height	Raised Height	Platform Size	Frame Material	Brand	Item No.
Pneumatic Lift Mechanism						
2000 lb.	9⁷⁄₁₆"	33⁷⁄₁₆"	43⅝" dia.	Steel	Southworth	**4FE90**
4500 lb.	9½"	27¾"	43⅝" dia.	Steel	Southworth	**4ZC17**
	9½"	27¾"	43⅝" dia.	Steel	Southworth	**38TA15**
	9½"	27¾"	43⅝" dia.	Stainless Steel	Southworth	**437J87**
Hydraulic Lift Mechanism						
2500 lb.	1¾"	30"	43⅝" x 48"	Steel	Southworth	**444F36**
	1¾"	30"	43⅝" x 48"	Steel	Southworth	**444F37**
4000 lb.	8¹¹⁄₁₆"	32¹¹⁄₁₆"	43⅝" dia.	Carbon Steel	Southworth	**36Y007**
Compression Spring Lift Mechanism						
2000 lb.	8¹¹⁄₁₆"	32¹¹⁄₁₆"	43⅝" dia.	Carbon Steel	Southworth	**36Y006**
4400 lb.	9½"	27¾"	43⅝" dia.	Steel	GA	**45NC12**
4500 lb.	9"	27¾"	43⅝" dia.	Stainless Steel	Southworth	**2RDN8**
	9½"	27¾"	43⅝" dia.	Steel	Southworth	**38TA16**
	9½"	28"	43⅝" dia.	Steel	Southworth	**4ZC16**

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**



No. 33W285



No. 6WU48



No. 6WU49

SOUTHWORTH making work faster, safer, and easier

Dayton

Hydraulic Pallet Tilters

MANUAL

- 12½" load center

Backplate lift range is 29" to 37" when tilted 90°. Feature fingertip controls and foot brakes that keep lift in place. 3" to 11" forklift range in horizontal mode.

ELECTRIC

- 20" load center
- Run on 12VDC; include 10A charger
- Pressure-compensation controls descent speed

Low-pressure hydraulic systems have reservoir-venting lift cylinder. Permanently lubricated bushings. Include handheld remote control, built-in onboard charger, and floor lock. 85° tilt. For use with open-bottom pallets or open-bottom wire containers.

Load Capacity	Fork Length	Width Between Forks	Width Across Forks	Overall Length	Overall Width	Overall Height	Caster Wheel Dia.	Caster Wheel Material	Brand	Item No.
Manual										
2200 lb.	31¾"	9¼"	22"	48"	27"	45"	6"	Polyurethane	Dayton	**33W285**
Electric										
2000 lb.	40"	11½"	24½"	52½"	34"	35⅛"	6"	Phenolic	Southworth	**6WU48**
4000 lb.	41⅜"	13⅜"	26⅛"	61½"	33⅜"	35"	8"	Phenolic	Southworth	**6WU49**



No. 2JFE7



No. 2ENE2



No. 478N34

Presto LIFTS Dayton®

Battery-Powered Hydraulic Stackers

▪ Optional forks and platforms available on Grainger.com®

Electrically powered with speed forward, reverse, and lift. Ergonomic handle, with controls and switch. Include reversing belly bump, battery status indicator, battery charger, and 24V batteries.

Fork Over Base—For narrow aisles and confined areas, with fixed legs and forks for open pallets and skids only.

Adjustable Straddle Base—Forks adjust from side-to-side to accommodate a wide range of skid widths.

Presto—Narrow mast for increased visibility.

Dayton®—Include emergency braking system, external charger, and removable key. Some assembly required.

Load Capacity	Lifting Height Max	Lifting Height Min.	Fork Size L	Fork Size W	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Fork Over Base											
2200 lb.	62"	3½"	42"	6"	9"	21"	67"	32"	78"	Presto Lifts	**3CGC4**
	62"	3½"	42"	6"	15"	27"	67"	32"	78"	Presto Lifts	**2JFE7**
Counterweight Base											
1100 lb.	62"	1⅜"	30"	3"	—	—	51"	35"	86"	Presto Lifts	**2ENE2**
Adjustable Straddle Base											
2200 lb.	62"	2¾"	42"	6"	40" to 50"	48" to 58"	69"	48" to 58"	80"	Presto Lifts	**2JFE2**
	63"	2½"	45"	4"	38" to 50"	46" to 58"	66"	46" to 58"	83"	Dayton	**21XU83**
	101"	2¾"	42"	6"	40" to 50"	48" to 58"	74"	48" to 58"	73" to 123"	Presto Lifts	**2JFE6**
	114"	2½"	45"	4"	38" to 50"	46" to 58"	66"	46" to 58"	81"	Dayton	**21XU84**
	125"	2¾"	42"	6"	40" to 50"	48" to 58"	74"	48" to 58"	85" to 147"	Presto Lifts	**2JFE4**
	150"	2¾"	42"	6"	40" to 50"	48" to 58"	74"	48" to 58"	99" to 173"	Presto Lifts	**2ENE1**
3500 lb.	114"	114"	42"	4⅜"	38" to 50"	46" to 58"	80"	50"	90"	Dayton	**478N35**
	141"	141"	42"	4⅜"	38" to 50"	46" to 58"	80"	50"	90"	Dayton	**478N34**

Dayton®

Manual Drive Battery-Powered Hydraulic Stackers

Units have adjustable base legs to help with lifting loads, skids, racks, and similar objects; forks adjust from side to side to accommodate different skid widths. Include 110VAC plug-in charger and 12VDC battery. On/Off switch and illuminated volt meter indicate battery and charge status.

Load Capacity	Lifting Height Max	Lifting Height Min	Fork Size L	Fork Size W	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
2200 lb.	63"	2⅛"	42"	4"	38 to 50"	46" to 58"	66½"	46 to 58"	80"	**5RRZ4**
2200 lb.	118"	2⅛"	42"	4"	38 to 50"	46" to 58"	66½"	46 to 58"	80"	**5RRZ5**
2200 lb.	137"	2⅛"	42"	4"	38 to 50"	46" to 58"	66½"	46 to 58"	89½"	**5RRZ6**



No. 5RRZ4

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**



Dayton
Genie A TEREX BRAND

Manual Platform Lifts


No. 2MPU2


No. 26Y451

Hand-crank lifts for lighter loads. 2 swivel and 2 locking swivel casters. Platform Lift No. 18F640 is manufactured by Genie®.

Low-Profile—Lift loads starting from floor level.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Dim. L	Platform Dim. W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Material	Item No.
Standard									
200 lb.	67"	2"	14"	16¾"	32"	20½"	45"	Aluminum	**18F640**
220 lb.	59"	4½"	18½"	24⅝"	33⅝"	24"	72"	Steel	**2MPU2**
440 lb.	59"	4½"	18½"	24⅝"	34¾"	24"	76"	Steel	**2MPU3**
500 lb.	58"	3¼"	20"	20"	28½"	20"	66¼"	Steel	**26Y451**
500 lb.	59"	6¼"	20"	24"	28½"	27¼"	69½"	Steel	**26Y452**
Low-Profile									
500 lb.	55"	¼"	20"	20"	30"	30½"	66½"	Steel	**26Y453**

Dayton

Manual Hydraulic Stackers


No. 2MPU9


No. 2MPT8

Feature fold-away hydraulic foot pump for raising loads and a hand-turn valve for lowering. No. 2MPU9 has forks that lower to the floor to slide under loads, tilts back, and stacks to unload. 2 rigid and 2 swivel wheels, except for No. 2MPU9 has 2 rigid only.

Load Capacity	Lifting Height Max	Lifting Height Min	Fork Size L	Fork Size W	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
Fixed Base Legs										
750 lb.	54"	½"	18"	3"	11⅜"	15⅜"	30"	20"	60½"	**2MPU9**
1000 lb.	56"	1"	30"	3"	26"	30"	47"	32"	72"	**2MPT8**
	64"	1"	30"	3"	26"	30"	47"	32"	80"	**2MPT9**
	76"	1"	30"	3"	26"	30"	47"	32"	92"	**2MPU1**
2000 lb.	63"	3⅝6"	43"	6⅝6"	14 ⅜"	24⅜64"	63"	28½"	80"	**4VMD9**
	98"	3⅝6"	43"	6⅝6"	14 ⅜"	24⅜64"	63"	28½"	72"	**4VME2**
	118"	3⅝6"	43"	6⅝6"	14 ⅜"	24⅜64"	63"	28½"	82"	**4VME3**
3000 lb.	63"	3⅝6"	43"	6⅝6"	14 ⅜"	24⅜64"	63"	28½"	80"	**4VME1**
Adjustable Base Legs										
2000 lb.	63"	2¾"	36"	4"	36" to 48"	43" to 54"	56"	43" to 54"	79½"	**4VME8**
	98"	2¾"	36"	4"	36" to 48"	43" to 54"	56"	43" to 54"	69¾"	**4VME9**
	118"	2¾"	36"	4"	36" to 48"	43" to 54"	56"	43" to 54"	79½"	**4VMF1**

Portable Pneumatic Lifts

Genie A TEREX BRAND

Lightweight, compact lifts are easy to set up and require no special tools. Powered by carbon dioxide (CO_2) or compressed air, these units lift, position, and install a wide variety of materials including metal, fiberboard, air ducts, overhead sprinklers, plumbing, drywall, and ceiling panels.


No. 18F655

Load Capacity	Lifting Height Max.	Lifting Height Min.	Base Legs Outside Dia.	Item No.
Standard Base Legs				
250 lb.	220½"	54"	38"	**18F656**
300 lb.	149⅝"	41"	38"	**18F655**
Manual Lift Accessories				
20 lb. CO_2 Tank For Use With 18F655, 18F656				**18F657**
5 x 5" Regulator For Use With 18F655 & 18F656				**39FW21**
10 x 10" Control Assembly For Use With 18F655 & 18F656				**39FW22**


No. 11N196


No. 4YZ83


No. 11N202

Dayton Genie A TEREX BRAND

Manual Material Stackers

Help keep wall and overhead-mounted objects steady for installation. Forks can be inverted to provide 2 different heights. Hold-down mechanism secures load during transport. Reversible winch handle.

Standard—Compact footprint maneuvers into areas not accessible to fork lifts.

Straddle—Adjustable straddle arms allow maneuvering close to machinery and pallet racks.

Counterbalanced—Have no base legs. Allow units to get close to walls, tables, and machines that have little or no clearance below.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Base Legs Fork L	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Standard Base Legs									
400 lb.	120"	3½"	22"	20"	34½"	24"	67"	Dayton	**11N196**
	120½"	3½"	22½"	24¾"	34¾"	24¾"	67½"	Genie	**4YZ85**
500 lb.	70"	3½"	22"	20"	34½"	24"	67"	Dayton	**11N197**
	71"	3½"	22½"	24¾"	34¾"	24¾"	67½"	Genie	**4YZ83**
Straddle Base Legs									
350 lb.	140"	2"	22½"	28¾" to 43½"	43"	28¾" to 43½"	78½"	Genie	**4YZ81**
	142"	2"	22"	28½" to 43¼"	43"	29"	79¾"	Dayton	**11N198**
	165½"	3½"	22½"	28¾" to 43½"	43"	28¾" to 43½"	91"	Genie	**4YZ82**
400 lb.	120"	2"	22"	28½" to 43¼"	43"	29"	67"	Dayton	**11N199**
	120½"	3½"	22½"	28¾" to 43½"	43"	28¾" to 43½"	67½"	Genie	**4YZ86**
500 lb.	70"	2"	22"	28½" to 43¼"	43"	29"	67"	Dayton	**11N201**
	71"	3½"	22½"	28¾" to 43½"	43"	28¾" to 43½"	67½"	Genie	**4YZ84**
Counterbalanced									
350 lb.	140"	3½"	22½"	43½"	28½"	43½"	78½"	Genie	**18F634**
400 lb.	120"	2"	22"	28" to 42½"	46"	29"	67"	Dayton	**11N203**
	120½"	3½"	22½"	43½"	28½"	43½"	67½"	Genie	**18F633**
500 lb.	70"	2"	22"	28" to 42½"	46"	29"	67"	Dayton	**11N202**
	71"	3½"	22½"	43½"	28½"	43½"	67½"	Genie	**18F632**
Accessories									
Four Point Caster Set For Use With Nos. 4YZ81, 4YZ82, 4YZ86, 4YZ84							5"	Genie	**18F635**
Load Platform (24"L x 22"W x 6"H)							6"	Genie	**4YZ76**
Boom (Turns Lift Into Vertical Crane/Hoist)							7½"	Genie	**4YZ77**
Platform Deck 24½"L x 20½"W							6⅛"	Dayton	**11N205**
Ladders For Use With									
Nos. 4YZ83, 4YZ84, 4YZ85, & 4YZ86							8½"	Genie	**4YZ78**
No. 4YZ81							8½"	Genie	**4YZ79**
No. 4YZ82							17½"	Genie	**4YZ80**


No. 16X837


No. 16X838

Presto LIFTS

Foot Pump Stackers

Rugged, user-friendly stackers have high-impact phenolic wheels (5" front dia., 4" rear dia.). No. 16X837 includes a 24"W x 24"L platform with 15" load center, and No. 16X838 includes a 30" adjustable fork with 18" load center.

Includes	Load Capacity	Lifting Height Max.	Lifting Height Min.	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
Platform	1000 lb.	52"	5½"	15¼"	22¼"	38½"	24¼"	66"	**16X837**
Adjustable Forks	1000 lb.	50"	3¼"	26"	33"	49"	32"	66"	**16X838**


Manual
No. 11K273


Manual
No. 2PLH7


Manual
No. 2PLJ2


Electric
No. 11K281

Pallet Lifters

Dayton

- Red powder-coat finish, except No. 2PLJ2 is stainless
- Cylinder bypass valve prevents overloading

Automatic brakes engage for stability when lift height exceeds 12".

MANUAL

Nos. 11K273 to 11K276 have captured scissor rollers and a foot pump. Nos. 11K277 and 11K278 feature an adjustable hydraulic lift, 3" polyurethane load rollers, and fingertip controls.

ELECTRIC

Powered units provide easier and faster lifting. Feature 3" polyurethane load rollers and fingertip controls, plus battery and charger.

Load Capacity	Fork Height Raised	Fork Height Lowered	Fork Size L	Fork Size W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
Manual								
1100 lb.	32¾"	3⅜"	44"	6¼"	61"	29"	42"	**11K273**
	32¾"	3⅜"	44"	6¼"	61"	22½"	42"	**11K274**
2200 lb.	31½"	3⅜"	46"	6¼"	61¾"	21¼"	48¼"	**2PLH9**
	31½"	3⅜"	46"	6¼"	61¾"	27"	48¼"	**2PLH7**
	31½"	3⅜"	46"	6¼"	61¾"	27"	48¼"	**2PLJ2**
	32¾"	3⅜"	44"	6¼"	64½"	22"	50"	**11K275**
	32¾"	3⅜"	44"	6¼"	64½"	28"	50"	**11K276**
3000 lb.	31½"	3⅜"	46"	6¼"	67"	22½"	65"	**11K277**
	31½"	3⅜"	46"	6¼"	67"	28"	65"	**11K278**
Electric								
3000 lb.	31½"	3⅜"	46"	6¼"	67"	22½"	50"	**11K280**
	31½"	3⅜"	46"	6¼"	67"	28"	50"	**11K281**


No. 4ZC02

Mechanical Scissor Lift Carts

SOUTHWORTH
making work faster, safer, and easier

- Casters with lock (2 rigid, 2 swivel)

Tension knob allows adjustment when load conditions change. Mechanical actuator does not require any connection to air or electric power source.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Size L	Platform Size W	Item No.
330 lb.	26⅒"	10⅞"	28"	17¾"	**4ZC01**
1100 lb.	31½"	15"	34¾"	23⅝"	**4ZC02**


No. 4ZC05


No. 33W286


No. 33W289


No. 2MPP5

Dayton | SOUTHWORTH making work faster, safer, and easier | GA GRAINGER APPROVED

Hydraulic Scissor Lift Carts

- Include hydraulic foot pump
- Casters (2 rigid, 2 swivel w/brake)
- Lowered and raised heights are measured with platform in level position

STEEL

Dayton®

- Down speed control valve
- Internal hydraulic velocity fuse in each cylinder

Southworth® Dandy Lift™—Self-locking lowering control provides precise lowering. No. 4YZ95 has double scissors.

STEEL TILTING PLATFORM

Heavy-duty platforms have 45° tilt.

STEEL ROLLING PLATFORM

Steel roller balls raise so loads can easily slide on and off the surface. Balls can also be lowered into the table for stability during transport.

STAINLESS STEEL

Velocity fuse stops free fall of platform in case of hydraulic failure. Scissor legs, pump assemblies, and hydraulic cylinders are zinc-plated. Nos. 2TKY3 and 2TKY4 have chrome-plated pump pedals, pump assemblies, and hydraulic cylinders.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Size L	Platform Size W	Brand	Item No.
Steel Frame						
330 lb.	29"	8⅜"	28"	17¾"	Southworth	**4ZC04**
400 lb.	29¼"	8¼"	27½"	17⅝"	Dayton	**3KR46**
550 lb.	31 45⁄64"	9½"	31½"	19¾"	Southworth	**4ZC05**
	36"	13"	32½"	19½"	Dayton	**33W288**
600 lb.	33"	10"	32"	20"	Southworth	**437J79**
660 lb.	35"	11½"	32"	19¾"	Dayton	**35KT59**
	63"	17"	39½"	20½"	Dayton	**33W295**
770 lb.	49 51⁄64"	13 19⁄32"	35 13⁄16"	23 19⁄32"	Southworth	**4YZ95**
800 lb.	51"	13½"	35½"	20"	Dayton	**3KR47**
1000 lb.	35½"	11¼"	32"	19½"	Dayton	**6W803**
	35¼"	12¼"	63"	31½"	Dayton	**4ZC18**
1100 lb.	36 19⁄32"	11 51⁄64"	35 13⁄16"	23⅝"	Southworth	**4YZ96**
	39½"	17"	39½"	20½"	Dayton	**33W286**
1500 lb.	59"	18⅜"	48"	24"	Dayton	**4ZD01**
1760 lb.	40 13⁄64"	13"	39 13⁄32"	23 19⁄32"	Southworth	**4YZ97**
	39½''	17"	39½"	20½"	Dayton	**33W287**
2000 lb.	39"	15"	40"	20"	Dayton	**6W804**
5000 lb.	48"	8¾"	72"	48"	Dayton	**35KT49**
	48"	10"	56"	32"	Dayton	**35KT48**


No. 11A564

Mechanical Lift Tables

Dayton

- 5" polyurethane casters (2 rigid, 2 swivel)
- Powder-coat finish
- 2,000-lb. load capacity

Provide height adjustment with control crank.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Size L	Platform Size W	Overall Size L	Overall Size W	Overall Size H	Item No.
2000 lb.	42"	24"	36"	24"	36"	24"	42"	**11A564**
2000 lb.	42"	24"	48"	30"	48"	30"	42"	**11A565**



Southworth®
Dandy Lift™
No. 2RDN5



Dayton®
No. 35KT55

Dayton SOUTHWORTH making work faster, safer, and easier

Battery-Operated Scissor Lift Carts

- 12V battery included, except Nos. 2RDN7 and 35KT55 have a 24V battery
- 10A built-in battery charger, operating on 115VAC power
- Phenolic casters, 2 rigid and 2 swivel, except No. 2RDN7 has 4 swivel casters

SOUTHWORTH® DANDY LIFT™
All electrical components are shielded. High-speed linear actuator. Carts include battery status indicator, onboard charger, On/Off switch, and floor locks.

DAYTON®
Includes removable handle, onboard charger, and key-operated On/Off switch. Platform lifts and lowers using a button-controlled hand pendant.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Size L	Platform Size W	Up Speed Seconds	Brand	Item No.
220 lb.	51"	13"	31½"	20"	26	Southworth	**2RDN3**
	51"	13"	36"	24"	26	Southworth	**2RDN4**
330 lb.	33¼"	14¾"	31½"	20"	17	Southworth	**2RDN5**
	33¼"	14¾"	36"	24"	17	Southworth	**2RDN6**
500 lb.	32½"	14¼"	31½"	20"	36	Southworth	**2RDN7**
660 lb.	63"	17½"	40"	20½"	14	Dayton	**35KT55**



Southworth®
No. 19A866



Southworth®
No. 4ZC10



Southworth®
No. 19A868



Southworth®
No. 4ZC15

SOUTHWORTH making work faster, safer, and easier Dayton

Stationary Electric Scissor Lift Tables

- Electric lifts are 115V

Dayton®—Low-profile tables feature a lowered height of 4 5⁄16" or less allow to allow easy loading and unloading with a hand pallet truck (requires an optional ramp). All tables include a 4-sided electrical perimeter toe guard and hand control.

Southworth®—Furnished with foot switch control with safety cover and control cord. Adjustable down speed. Lift cylinder vented to reservoir. Maintenance-free pins, rollers, and bushings lubricated-for-life. Nos. 4ZC14, 4ZC15, 19A872 and 19A873 have a comfort-molded edge platform. Turntable Lift No. 4ZC15 features a 43"-dia. flush-mount turntable in platform top. Nonelectric Lift No. 19A867 features an attachment that allows table to be raised or lowered with the use of an electric drill.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Size L	Platform Size W	Up Speed Seconds	Brand	Item No.
Electric Lift							
200 lb.	40"	24"	49½"	25½"	26	Southworth	**19A866**
500 lb.	36"	6"	24"	16"	20	Southworth	**4ZC09**
1000 lb.	36"	6"	24"	16"	20	Southworth	**4ZC10**
1100 lb.	31½"	5½"	36"	20"	16	Southworth	**5NP23**
	30"	3¼"	40"	24"	15	Dayton	**35KT53**
1500 lb.	41¼"	6¼"	48"	24"	32	Southworth	**4ZC07**
	39"	8"	48"	24"	24	Dayton	**35KT67**
2000 lb.	41¼"	8¾"	48"	24"	19	Southworth	**4ZC11**
	39"	8"	48"	24"	25	Dayton	**35KT68**
	39"	8"	48"	36"	25	Dayton	**35KT45**
	35"	⅜"	48"	44"	48	Southworth	**19A868**
	41¼"	8¾"	48"	48"	19	Southworth	**4ZC12**
	39"	8"	48"	48"	25	Dayton	**35KT69**
	35"	⅜"	48"	50"	48	Southworth	**19A869**
3000 lb.	39"	8"	48"	36"	35	Dayton	**35KT47**
4000 lb.	42¾"	6¾"	48"	24"	42	Southworth	**19A872**
	42¾"	6¾"	48"	36"	42	Southworth	**19A873**
	35"	⅜"	48"	44"	48	Southworth	**19A870**
	42¾"	6¾"	48"	48"	42	Southworth	**4ZC14**
	39"	8"	48"	48"	40	Dayton	**35KT70**
	35"	⅜"	48"	50"	48	Southworth	**19A871**
Non-Electric Lift							
300 lb.	17¾"	3½"	23 3⁄16"	22 3⁄16"	—	Southworth	**19A867**
	17¾"	3½"	23 3⁄16"	22 3⁄16"	—	Dayton	**35KT63**
550 lb.	28"	6"	32"	19½"	—	Dayton	**35KT60**
1100 lb.	31½"	6"	40"	20"	—	Dayton	**35KT57**
Turntable Lift							
2000 lb.	41½"	11½"	43"	43"	17	Dayton	**38TJ92**
3500 lb.	43⅜"	7⅝"	48"	48"	42	Southworth	**4ZC15**
	43⅜"	7⅝"	48"	48"	40	Dayton	**38TJ93**
Accessories							
Electric Handle Control for Southworth Models Only						Southworth	**4ZC03**

Manual Hydraulic Platform Lifts

Dayton®

Steel frame construction. Fold-away hydraulic foot pumps raise loads, and hand-turn valves lower them. Platforms on Nos. 2MPU5 and 2MPU6 lower to the floor, tilt back for transporting, and act as a stacker for unloading. Nos. 2MPU7 and 2MPU8 also tilt back, but feature swivel casters. Nos. 4ECW6 and 4ECW7 include adjustable forks and platforms.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Dim. L	Platform Dim. W	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Wheels	Item No.
750 lb.	54"	½"	22"	22"	11⅜"	15⅜"	32"	22½"	60½"	(2) Rigid	**2MPU5**
	54"	½"	22"	30"	11⅜"	15⅜"	32"	30"	60½"	(2) Rigid	**2MPU6**
	54"	5¾"	22"	22"	16"	22"	32"	22½"	60½"	(2) Swivel, (2) Rigid	**2MPU7**
	54"	5¾"	22"	30"	16"	22"	32"	30"	60½"	(2) Swivel, (2) Rigid	**2MPU8**
880 lb.	33½"	8"	25⅝"	21½"	14"	19½"	40"	23³⁄₁₆"	38⅝"	(2) Swivel, (2) Rigid	**4ECW8**
	47"	3⅜"	25⅝"	22¾"	14¾₁₆"	18½"	40¾"	23³⁄₁₆"	56⅛"	(2) Swivel, (2) Rigid	**4ECW6**
	47"	8"	25⅝"	21½"	14"	19½"	40"	23³⁄₁₆"	52⅜"	(2) Swivel, (2) Rigid	**4ECW9**
	59"	3⅜"	25⅝"	22¾"	14¾₁₆"	18½"	40¾"	23³⁄₁₆"	67⅞"	(2) Swivel, (2) Rigid	**4ECW7**
	59"	8"	25⅝"	21½"	14"	19½"	40"	23³⁄₁₆"	64³⁄₁₆"	(2) Swivel, (2) Rigid	**4ECX1**
1000 lb.	60"	5¾"	24"	24"	15⅛"	21¼"	36"	25½"	72"	(2) Swivel, (2) Rigid	**2MPT2**
	60"	5¾"	30"	32"	26"	29¾"	44"	32"	72"	(2) Swivel, (2) Rigid	**2MPT5**
	68"	5¾"	24"	24"	15⅛"	21¼"	40"	25½"	80"	(2) Swivel, (2) Rigid	**2MPT3**
	68"	5¾"	30"	32"	26"	29¾"	44"	32"	80"	(2) Swivel, (2) Rigid	**2MPT6**
	80"	5¾"	24"	24"	15⅛"	21¼"	36"	25½"	92"	(2) Swivel, (2) Rigid	**2MPT4**
	80"	5¾"	30"	32"	26"	29¾"	44"	32"	92"	(2) Swivel, (2) Rigid	**2MPT7**
2000 lb.	63"	6"	30"	32"	28"	34"	54"	34"	79½"	(2) Swivel, (2) Rigid	**4VME4**
	98"	6"	30"	32"	28"	34"	54"	34"	69¾"	(2) Swivel, (2) Rigid	**4VME6**
	118"	6"	30"	32"	28"	34"	54"	34"	84"	(2) Swivel, (2) Rigid	**4VME7**
3000 lb.	63"	6"	30"	32"	28"	34"	54"	34"	81½"	(2) Swivel, (2) Rigid	**4VME5**









GA GRAINGER APPROVED | Dayton® | SOUTHWORTH making work faster, safer, and easier

Battery-Powered Platform Lifts

- 4 swivel casters (2 locking) except Belt Drive

Chain Drive—Include 110VAC charger, push-button control pad with digital display. No. 38ER33 includes detachable control wand.

Belt Drive—Combines the vertical lifting capabilities of a small powered stacker with the convenience, versatility and simplicity of a 2-wheel hand truck. Transfer loads to shelves, workbenches, conveyors, processing equipment, delivery trucks, and customer vehicles in a wide range of facilities.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Platform Dim. L	Platform Dim. W	Base Legs I.D.	Base Legs O.D.	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Chain/Cable, Steel Frame											
125 lb.	72"	5½"	19"	23¾"	18⅞"	22"	33"	24"	86½"	Dayton	**13X479**
220 lb.	67"	5½"	19"	23¾"	18⅞"	22"	33"	24"	79⅝"	Dayton	**38ER33**
400 lb.	72"	5½"	19"	23¾"	18⅞"	22"	33"	24"	88"	Dayton	**13X481**
Chain/Cable, Aluminum Frame											
125 lb.	72"	5½"	18½"	23½"	15"	20⁷⁄₁₆"	36⅛"	23½"	85³⁄₁₆"	GA	**1XFD5**
175 lb.	57"	5½"	18½"	23½"	15"	20⁷⁄₁₆"	36⅛"	23½"	70³⁄₁₆"	GA	**1XFD4**
Belt Drive, Aluminum Frame											
200 lb.	38½"	Ground Level	16"	20"	—	—	25"	20"	52"	Lift'N Buddy	**52JU44**
Accessories											
Detachable Hand Control Pendant For Use With 13X479, 13X480, 13X481										Dayton	**13X482**







Genie® A TEREX BRAND

Manual Superlift™ Material Lifts

Telescoping mast system, manual 1-speed winch, and standard fixed width tubular forks (27½"L x 23½"W x 2½"D). Forks can be inverted to provide 2 different heights. Setup requires no tools. Legs fold up for storage. Roll through standard single doorways. Flat Pallet Forks No. 4YZ71 are required to lift pallets.

Load Capacity	Lifting Height Max.	Lifting Height Min.	Base Legs I.D.	Base Legs O.D.	Item No.
Standard Base Legs					
650 lb.	155"	6"	23½"	31½"	**3RAT8**
	222"	6"	23½"	31½"	**3RAT9**
	288"	6"	23½"	31½"	**3RAU1**
800 lb.	196"	6"	23½"	31½"	**4YZ89**
	196"	6"	23½" to 51"	31½" to 58"	**4YZ90**
1000 lb.	79"	6"	23½"	31½"	**4YZ93**
	79"	6"	23½" to 51"	31½" to 58"	**4YZ94**
	137½"	6"	23½"	31½"	**4YZ87**
	137½"	6"	23½" to 51"	31½" to 58"	**4YZ88**
Straddle Base Legs with Stabilizer					
650 lb.	312½"	6"	23½"	31½"	**4YZ92**
800 lb.	254½"	6"	23½"	31½"	**4YZ91**
Accessories					
Adjustable Tubular Forks (27½"L x 12" to 30"W x 15"D)					**4YZ70**
Boom (Turns Lift Into Vertical Crane/Hoist)					**4YZ72**
Flat Pallet Forks 3"W x 30"L (For Nos. 4YZ93, 4YZ87, and 4YZ89)					**4YZ71**
Load Platform (29"L x 23"W x 7"H)					**4YZ73**
Rear Transport Wheel Assembly					**4YZ75**
Stabilizer Set For Use With Nos. 4YZ93, 4YZ87, 4YZ89					**18F645**

Hand Truck Information


Continuous Frame Flow-Back Handle


Continuous Frame Loop Handle


Continuous Frame Dual-Pin Handle


Continuous Frame Single-Pin Handle


Dual Handle


Stair Climber Brackets


Standard Steel Hand Truck
No. 1W617


Easy-Load Steel Hand Truck
No. 9KCY5


Easy-Load & Tilt Steel Hand Truck
No. 49Y704


Lightweight Corrosion-Resistant Modular Hand Truck
No. 5YN95

General Purpose Hand Trucks

General purpose hand trucks are upright wheeled carts that let one person move large or heavy loads, such as boxes, crates, bins, equipment, and raw materials. Also known as dollies, hand trollies, or stack trucks.

Steel hand trucks have steel frames and nose plates and are suitable for a wide range of tasks.

Corrosion-resistant stainless steel hand trucks will not rust when exposed to water, cleaning chemicals, and other corrosives.

Lightweight corrosion-resistant aluminum hand trucks weigh less than steel or stainless steel hand trucks and will not rust when used in damp or wet environments.

Standard hand trucks are the basic option for general purpose tasks.

Easy-load hand trucks have nose plates with bevels or other features that help them slide under loads easily.

Easy-load and tilt hand trucks have foot kicks that can be used to push the bottom of the trucks forward as the trucks are tilted back, which makes it easier to start loaded trucks rolling. They also have nose plates with bevels or other features that help them slide under loads easily.

Nonmarring hand trucks have a frame coating and wheel guards that prevent the trucks' frame or wheels from rubbing against items on the trucks and damaging them.

Ergonomic tilt-back hand trucks have two swivel casters mounted on a frame extension behind their two primary wheels. The hand trucks rest on all four wheels when tilted back, which makes it easier to keep them upright when moving heavy loads and lets users open doors and do other tasks without having to support the hand trucks or return them to vertical and then re-tilt them again.

All-terrain hand trucks have large-diameter flat-free wheels that absorb shock and will not puncture when rolling over uneven ground, cracked floors, gravel, thresholds, and obstructions.

Modular aluminum hand trucks allow users to replace parts of the hand trucks as they become worn or damaged.

Welded hand trucks do not allow users to replace components of the hand trucks when they become worn.

Extended folding nose hand trucks have an extension that increases the length of their nose plate to allow the trucks to carry bulky loads like cartons of snack foods or suitcases. The extensions fold up to save space when not in use.

Narrow-aisle hand trucks have a slim profile and can maneuver better in tight spaces than wider hand trucks.

Stair climber kits allow users to install rear stair climbers on the hand trucks to help them roll smoothly over stairs and curbs.

Folding nose plate extension kits let users install a folding extension on the hand truck's nose plate to increase its length.

Nose plate expander kits let users install an extension on the hand truck's nose plate to increase its length and width.

Handle Type	Nose Plate Width	Nose Plate Depth	Overall Width	Overall Height	Overall Depth	Load Capacity	Wheel Type	Brand	Item No.	Stair Climber Kit Item No.	Folding Nose Plate Extension Item No.	Nose Plate Expander Kit Item No.
Standard Steel Hand Trucks												
Continuous Frame Dual Pin	14"	8"	17½"	57"	—	500 lb.	Semi-Pneumatic	Dayton	**5Z080**	—	—	—
	14"	8"	20½"	50½"	—	800 lb.	Solid	Dayton	**6W858**	—	**6W851**	**6B472**
	19"	14"	19½"	65"	—	400 lb.	Semi-Pneumatic	Dayton	**1W680**	—	—	—
Continuous Frame Flow-Back	14"	7"	18"	40"	15"	300 lb.	Solid	Ability One	**487V29**	—	—	—
	14"	7"	22"	48"	17"	600 lb.	Solid	Ability One	**487V27**	—	—	—
	14"	7"	22"	48"	17"	700 lb.	Pneumatic	Ability One	**487V31**	—	—	—
	14"	8"	18"	51½"	14"	550 lb.	Solid	GA	**18F501**	—	—	—
	14"	8"	18½"	46"	—	300 lb.	Semi-Pneumatic	Dayton	**1W617**	—	**6W851**	**6B472**
	14"	8"	20½"	46"	—	800 lb.	Solid	Dayton	**6W856**	—	**6W851**	**6B472**
	14"	8"	22"	46"	—	650 lb.	Pneumatic	Dayton	**2W179**	—	**6W851**	**6B472**
	14"	10"	18"	48"	—	1000 lb.	Mold-On	Dayton	**2W157**	**6W052**	**5W661**	—
	14"	10"	19"	48"	—	1000 lb.	Mold-On	Dayton	**4ZH99**	**6W052**	**5W661**	—
	17½"	12½"	20½"	53¼"	—	900 lb.	Solid	Dayton	**2NXC1**	—	—	—
Continuous Frame Loop	14"	6½"	13½"	51½"	—	550 lb.	Pneumatic	GA	**4HRH3**	—	—	—
	14"	7"	22"	48"	17"	600 lb.	Pneumatic	Ability One	**487V30**	—	—	—
	14"	7½"	20¼"	55½"	—	800 lb.	Solid	Dayton	**2NXA7**	—	—	—
	14"	8"	20"	46"	—	400 lb.	Semi-Pneumatic	Dayton	**2W063**	—	**6W851**	**6B472**
	14"	10"	19"	49"	20"	400 lb.	Semi-Pneumatic	Saftcart	**5WXG6**	—	—	—
	14"	12"	19⅜"	49¼"	20"	800 lb.	Solid	GA	**9CX22**	—	—	—
Continuous Frame Single Pin	14"	10"	19"	49"	20"	400 lb.	Semi-Pneumatic	Saftcart	**5WXG5**	—	—	—
Dual Handle	14"	6½"	18"	44½"	14"	550 lb.	Semi-Pneumatic	GA	**18F504**	—	—	—
	14"	6½"	18"	44½"	14"	550 lb.	Pneumatic	GA	**18F503**	—	—	—
	14"	7"	18"	45"	17"	600 lb.	Solid	Ability One	**487V28**	—	—	—
	14"	8"	13¾"	47½"	—	550 lb.	Pneumatic	GA	**4HRG9**	—	—	—
	14"	8"	20½"	47"	—	800 lb.	Solid	Dayton	**6W857**	—	**6W851**	**6B472**
	14"	10"	20"	56"	20"	400 lb.	Semi-Pneumatic	Saftcart	**5WXG7**	—	—	—

CONTINUED

CONTINUED

General Purpose Hand Trucks

Handle Type	Nose Plate Width	Nose Plate Depth	Overall Width	Overall Height	Overall Depth	Load Capacity	Wheel Type	Brand	Item No.	Stair Climber Kit Item No.	Folding Nose Plate Extension Item No.	Nose Plate Expander Kit Item No.
Easy-Load Steel Hand Trucks												
Continuous Frame Flow-Back	14"	8"	17½"	45"	17"	500 lb.	Semi-Pneumatic	GA	18F481	—	—	—
	16"	13½"		47"	—	800 lb.	Pneumatic	GA	8TV03	—	—	—
	16"	13½"	20½"	47"	22¾"	800 lb.	Solid	GA	8DPT1	—	—	—
	17½"	12½"	25"	53¼"	—	800 lb.	Pneumatic	Dayton	2NXC2	—	—	—
Continuous Frame Loop	14"	8"	17½"	46"	17"	500 lb.	Semi-Pneumatic	GA	18F479	—	—	—
	14"	8"	18"	50"	18"	800 lb.	Solid	GA	18F487	—	—	—
	14"	8"	18"	50"	18"	800 lb.	Semi-Pneumatic	GA	18F485	—	—	—
	16"	13½"	20¼"	49¼"	23"	800 lb.	Solid	GA	9DUU1	—	—	—
	16"	13½"	22½"	49¼"	23"	800 lb.	Pneumatic	GA	9KF39	—	—	—
Dual Handle	14"	8"	17½"	47"	17"	500 lb.	Semi-Pneumatic	GA	18F480	—	—	—
	16"	13½"	20⅜"	48½"	20¾"	800 lb.	Solid	GA	9KCY5	—	—	—
	16"	13½"	22½"	48½"	22¾"	800 lb.	Pneumatic	GA	8YFH1	—	—	—
Easy-Load & Tilt Steel Hand Trucks												
Continuous Frame Flow-Back	14"	12"	21"	48"	24"	800 lb.	Solid	GA	49Y686	—	—	—
	16"	13½"	18"	47"	23"	600 lb.	Solid	GA	49Y696	—	—	—
	16"	13½"	18"	47"	23"	800 lb.	Solid	GA	49Y695	—	—	—
	16"	13½"	18"	47"	23"	800 lb.	Pneumatic	GA	49Y697	—	—	—
	16"	13½"	18"	60"	23"	600 lb.	Solid	GA	49Y709	—	—	—
	16"	13½"	18"	60"	23"	800 lb.	Pneumatic	GA	49Y710	—	—	—
	16"	13½"	18"	60"	23"	800 lb.	Solid	GA	49Y711	—	—	—
Continuous Frame Loop	14"	12"	21"	48"	24"	800 lb.	Solid	GA	49Y694	—	—	—
	16"	13½"	18"	49"	23"	600 lb.	Solid	GA	49Y705	—	—	—
	16"	13½"	18"	49"	23"	800 lb.	Pneumatic	GA	49Y706	—	—	—
	16"	13½"	18"	49"	23"	800 lb.	Solid	GA	49Y704	—	—	—
Dual Handle	16"	13½"	18"	49"	23"	600 lb.	Solid	Little Giant	49Y701	—	—	—
	16"	13½"	18"	49"	23"	800 lb.	Solid	GA	49Y699	—	—	—
	16"	13½"	18"	49"	23"	800 lb.	Pneumatic	GA	49Y702	—	—	—
Non-Marring Steel Hand Trucks												
Continuous Frame Loop	21¾"	7¼"	22"	52"	19"	600 lb.	Pneumatic	Dayton	34D660	—	—	—
	21¾"	7¼"	22"	52"	19"	600 lb.	—	Dayton	34D661	—	—	—
Ergonomic Tilt-Back Steel Hand Trucks												
Continuous Frame Dual Pin	14"	8"	20½"	48"	—	800 lb.	Semi-Pneumatic	Dayton	2NXA9	—	—	—
Continuous Frame Flow-Back	14"	8"	18¾"	40"	38¼"	800 lb.	Solid	GA	39E624	—	—	—
Dual Handle	17"	10"	22¼"	51½"	19"	1000 lb.	Mold-On	Dayton	2NXC3	—	—	—
All-Terrain Ergonomic Tilt-Back Steel Hand Trucks												
Continuous Frame Loop	24"	17"	50"	25"	16⅞"	750 lb.	Pneumatic	GA	55CR77	—	—	—
	30"	30"	63"	31"	20⅞"	1000 lb.	Pneumatic	GA	55CR78	—	—	—
Corrosion-Resistant Stainless Steel Hand Trucks												
Continuous Frame Loop	13¾"	7½"	17¼"	52"	18"	500 lb.	—	Dayton	34D680	—	—	—
	14"	8"	22½"	48"	16½"	600 lb.	Mold-On	GA	445K86	—	—	—
Lightweight Corrosion-Resistant Modular Aluminum Hand Trucks												
Continuous Frame Dual Pin	14"	8½"	21¼"	48"	—	500 lb.	Pneumatic	Dayton	6W048	6W052	5W661	—
	18"	7½"	18½"	48"	20½"	500 lb.	Solid	Magliner	59UY91	5YN92	5YN87	—
Continuous Frame Flow-Back	14"	7½"	17½"	48"	17½"	500 lb.	Solid	Magliner	59UY87	5YN92	5YN87	—
	14"	7½"	18½"	48"	17½"	500 lb.	Solid	Magliner	59UY88	5YN92	5YN87	—
	14"	8½"	18"	48"	—	500 lb.	Mold-On	Dayton	6W046	6W052	5W661	—
	14"	8½"	21¼"	48"	—	500 lb.	Pneumatic	Dayton	6W047	6W052	5W661	—
	15"	7"	21"	50"	18"	600 lb.	Pneumatic	Dayton	4ZJ31	—	—	—
	16"	12"	17½"	48"	22"	500 lb.	Solid	Magliner	59UY89	5YN92	5YN87	—
	18"	7½"	18"	52"	16½"	500 lb.	Mold-On	Magliner	9DRC7	5YN92	5YN87	—
	18"	7½"	20¾"	48"	20½"	500 lb.	Pneumatic	Magliner	59UY90	5YN92	5YN87	—
	20"	12"	20½"	68"	25"	500 lb.	Solid	Magliner	59UY92	5YN92	5YN87	—
Continuous Frame Loop	14"	7½"	17⅛"	48"	18½"	500 lb.	Pneumatic	Magliner	8UMK9	5YN92	5YN87	—
	14"	7½"	17⅛"	48"	16½"	500 lb.	Mold-On	Magliner	9DRC9	5YN92	5YN87	—
	14"	7½"	17⅛"	48"	18½"	500 lb.	Mold-On	Magliner	5YN95	5YN92	5YN87	—
	14"	7½"	18"	48"	16½"	500 lb.	Solid	Magliner	6LGJ8	5YN92	5YN87	—
	14"	7½"	18½"	48"	18½"	500 lb.	Pneumatic	Magliner	8Z516	5YN92	5YN87	—
	14"	7½"	18½"	49"	18½"	500 lb.	Solid	Magliner	3JJZ9	5YN92	5YN87	—
	14"	7½"	21"	52"	20"	500 lb.	Balloon Cushion	Magliner	5YN99	5YN92	5YN87	—
	14"	8½"	21¼"	51½"	—	500 lb.	Pneumatic	Dayton	6W049	6W052	5W661	—
	14"	9"	18"	48"	20"	500 lb.	Mold-On	Magliner	5YP02	5YN92	5YN87	—
	16"	12"	17½"	49"	21	500 lb.	Mold-On	Magliner	3JKA2	5YN92	5YN87	—
	16"	12"	21"	49"	22¾"	500 lb.	Pneumatic	Magliner	3JKA4	5YN92	5YN87	—
	18"	7½"	18"	48"	16½"	500 lb.	Mold-On	Magliner	3JKD2	5YN92	5YN87	—
	18"	7½"	20½"	52"	20½"	500 lb.	Solid	Magliner	59UY93	5YN92	5YN87	—
	18"	7½"	21"	48"	20"	500 lb.	Balloon Cushion	Magliner	5YN98	5YN92	5YN87	—
	18"	7½"	21"	49"	18½"	500 lb.	Pneumatic	Magliner	3JKA6	5YN92	5YN87	—
	18"	7½"	21"	50"	—	600 lb.	Solid	GA	4HRH1	—	—	—
	18"	7½"	21"	52"	18½"	500 lb.	Pneumatic	Magliner	5YN96	5YN92	5YN87	—
	18"	9"	21"	52"	20½"	500 lb.	Microcellular	Magliner	1FC78	5YN92	5YN87	—
	20"	12"	21"	51⅞"	23	500 lb.	Pneumatic	Magliner	36UV03	5YN92	5YN87	—
Continuous Frame Single Pin	18"	7½"	18"	52"	16½"	500 lb.	Mold-On	Magliner	3JKC5	5YN92	5YN87	—
	18"	7½"	20¾"	60"	20½"	500 lb.	Pneumatic	Magliner	59UY94	5YN92	5YN87	—
	18"	7½"	21"	52"	18½"	500 lb.	Pneumatic	Magliner	1FC77	5YN92	5YN87	—
Dual Handle	14"	7½"	18½"	47⅝"	16½"	500 lb.	Solid	Magliner	3JKC1	5YN92	5YN87	—
	16"	12"	20"	48"	20"	500 lb.	Balloon Cushion	Magliner	5YN97	5YN92	5YN87	—
	18"	7½"	18"	47⅝"	16½"	500 lb.	Mold-On	Magliner	3JKC3	5YN92	5YN87	—
	18"	7½"	18"	52"	16½"	500 lb.	Mold-On	Magliner	8AJJ2	5YN92	5YN87	—
	18"	7½"	21"	52"	18½"	500 lb.	Pneumatic	Magliner	9JZ69	5YN92	5YN87	—
Lightweight Corrosion-Resistant Welded Aluminum Hand Truck												
Continuous Frame Loop	14"	8½"	20"	50½"	22¾"	900 lb.	Solid	GA	8WXR2	—	—	—
Ergonomic Tilt-Back Lightweight Corrosion-Resisant Aluminum Hand Trucks												
Continuous Frame Loop	18"	7½"	20½"	52"	25½"	500 lb.	Microcellular Solid	Magliner	59UY95	—	—	—
	18"	7½"	20¾"	52"	25½"	500 lb.	Pneumatic	Magliner	59UY96	—	—	—
	18"	7½"	21"	48"	18½"	500 lb.	Pneumatic	Magliner	31XC08	—	—	—
	18"	7½"	21"	51⅞"	18½"	500 lb.	Polyurethane	Magliner	31XC07	—	—	—
Extended Folding Nose Lightweight Corrosion-Resistant Aluminum Hand Trucks												
Continuous Frame Flow-Back	14"	7½"	17½"	63"	17½"	500 lb.	Mold-On	Magliner	443L11	—	—	—
Continuous Frame Loop	14"	7½"	17"	61½"	20"	80 lb.	Mold-On	Magliner	20UZ24	—	—	—
	14"	7½"	21"	55"	20"	500 lb.	Balloon Cushion	Magliner	5PWC0	—	—	—
Lightweight Corrosion-Resistant Welded Aluminum Hand Trucks												
Continuous Frame Flow-Back	14"	8¼"	20½"	46"	—	400 lb.	Semi-Pneumatic	Dayton	3W154	—	5W661	—
Continuous Frame Loop	14"	8¼"	22½"	48"	—	400 lb.	Pneumatic	Dayton	3W153	—	5W661	—
Narrow-Aisle Lightweight Corrosion-Resistant Modular Aluminum Hand Trucks												
Continuous Frame Dual Loop	14"	9"	14"	62"	18"	500 lb.	Balloon Cushion	Magliner	20UZ39	—	—	—
	14"	9"	14"	62"	20"	500 lb.	Balloon Cushion	Magliner	20UZ38	—	—	—



GA GRAINGER APPROVED

Powered 2-Position Aluminum Convertible Hand Trucks

The battery-powered motor on these hand trucks reduces effort when moving heavy loads. Lowering the motor throttle activates a braking mechanism that slows the trucks on ramps and inclines, and the trucks stop rolling when the throttle is at zero. These convertible hand trucks can be used as an upright two-wheel hand truck or a horizontal four-wheel platform truck. They are made from aluminum, which weighs less than steel and resists rust when used in damp or wet environments. Ship assembled and include rechargeable battery pack and charger.

Handle Type	Nose Plate Width	Nose Plate Depth	Platform Size	Overall Width	Overall Height	Overall Depth	Load Capacity	Wheel Type	Item No.
Continuous Frame	18"	7½"	46 x 12 x 50¾"	22"	61¾"	55½"	1200 lb.	Pneumatic	**1AGW2**
Continuous Frame Dual Pin	18"	7½"	41½ x 12 x 38"	22"	51¾"	42¾"	1200 lb.	Pneumatic	**1AGW3**

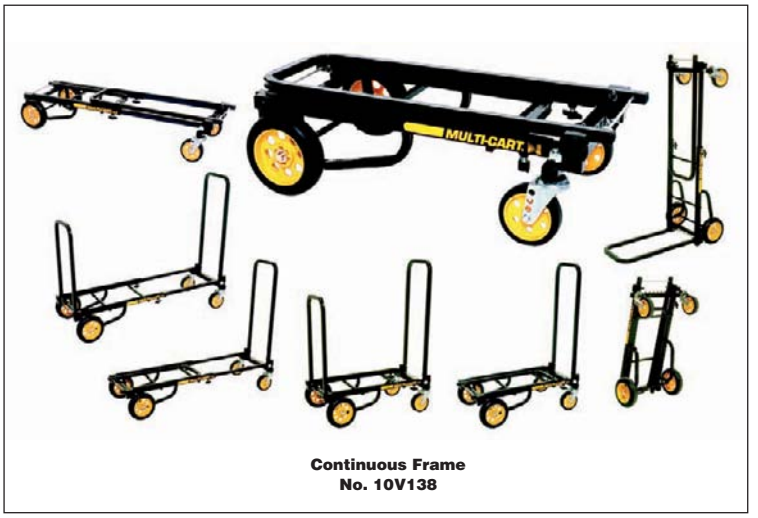


MAGLINER® GA GRAINGER APPROVED Dayton

Convertible Hand Trucks

Also known as multiposition hand trucks, these hand trucks can be used as an upright hand truck or as a platform truck, allowing them to carry a wider range of items than other types of hand trucks. Load capacity may change depending on the configuration they are being used in.

Nose Plate Width	Nose Plate Depth	Platform Size	Overall Width	Overall Height	Overall Depth	Vertical Load Cap.	Horizontal Load Cap.	Wheel Type	Brand	Item No.
Continuous Frame										
18"	7½"	12 x 50"	21"	51"	50"	500 lb	750 lb	Pneumatic	Magliner	**5YP03**
Continuous Frame Dual Pin										
18"	7½"	12" W x 39" L x 42" H	21"	52"	39"	600 lb	800 lb	Pneumatic	GA	**4HRG5**
		38" x 12"	21"	51"	47½"	500 lb	1000 lb	Solid	Magliner	**59UY85**
		38 x 12"	21"	51"	47½"	500 lb	1000 lb	Pneumatic	Magliner	**5YN93**
		38" x 12"	21"	51"	47½"	500 lb	1000 lb	Solid	Magliner	**59UY86**
	8¼"	38½" x 12"	21¼"	53⅜"	19½"	500 lb	1000 lb	Pneumatic	GA	**21U665**
	8¼	48½" x 12"	21¼"	62¾"	19"	500 lb	1000 lb	Pneumatic	GA	**21U664**
	8½"	38½ x 12"	21¼"	51¾"	51¾"	500 lb	650 lb	Pneumatic	Dayton	**6W050**
	10½"	48½ x 13¾"	20"	58"	58"	700 lb	800 lb	Solid	Dayton	**6W855**
Continuous Frame Flow-Back										
14"	7½"	45⅝ x 13¾"	19¼"	55"	18½"	700 lb	1000 lb	Solid	Dayton	**34D670**
		45⅝" x 13¾"	19¼"	55"	19	700 lb	1000 lb	Semi-Pneumatic	Dayton	**34D667**
	8"	38 x 13⅝"	18"	47"	47"	400 lb	500 lb	Semi-Pneumatic	Dayton	**2W065**
			20½"	47"	47"	650 lb	750 lb	Pneumatic	Dayton	**4W323**
		42½ x 13¾"	20"	53½"	43"	500 lb	600 lb	Semi-Pneumatic	Dayton	**4ZJ30**
15"	7"	40 x 13"	21"	50"	18"	600 lb	600 lb	Pneumatic	Dayton	**4ZJ32**
18"	7½"	38½" x 12" x 38"	21¼"	53⅜"	19"	600 lb	1200 lb	Pneumatic	Dayton	**34D671**
		48½" x 12" x 50¾''	21¼"	62¾"	19"	600 lb	1200 lb	Pneumatic	Dayton	**34D672**
		50" x 12"	21"	51"	50"	500 lb	750 lb	Solid	Magliner	**59UZ36**
		51 x 12"	21"	61"	55¾"	500 lb	1000 lb	Pneumatic	Magliner	**5YN94**
			21"	52"	19½"	500 lb	750 lb	Pneumatic	Dayton	**34D655**
	8½"	48½ x 12"	21¼"	61½"		500 lb	650 lb	Pneumatic	Dayton	**4ZJ34**
	9"	53¾" x 17"	22¾"	62¾"	57¼"	500 lb	1250 lb	Solid	Magliner	**59UZ37**
	10"	51½" x 20"	18½"	61½"	51½"	500 lb	1000 lb	Solid	GA	**24L330**
Continuous Frame Loop										
14"	7½"	66½"	17¼"	73"	16"	—	200 lb	Mold-On	Magliner	**19D209**
Dual Handle										
16¼"	10¾"	42⅜" x 15 ¾"	24½"	50"	22"	400 lb	400 lb	Pneumatic	Dayton	**34D677**



Extra-Versatile 4-Position Convertible Hand Trucks

GA GRAINGER APPROVED

Four-position convertible hand trucks can be used as an upright hand truck, a platform truck, a U-boat truck, and a dolly. The trucks' frame can be extended in all positions to accommodate a wide range of items. Also known as 8-in-1 hand trucks, these hand trucks have a steel frame, two no-flat rear wheels, and two soft-tread front casters with brake. They require assembly and are used in maintenance, warehouse, storage facility, contractor, live performance, HVAC, delivery, and trade show applications.

Overall Width	Overall Height	Overall Depth	Vertical Load Cap.	Horizontal Load Cap.	Caster Dia.	Item No.
Continuous Frame						
14"	30¾"	40½"	350 lb	350 lb	4 in Front and 6 in Rear	**10V138**
18"	33¼"	45"	500 lb	500 lb	4 in Front and 6 in Rear	**10V139**
19"	38¾"	55¼"	500 lb	500 lb	5 in Front and 8 in Rear	**10V140**
20"	40½"	55¼"	500 lb	500 lb	5 in Front and 10 in Rear	**10V141**
	40½"	55¼"	500 lb	500 lb	8 in Front and 10 in Rear	**10V142**
Continuous Frame Flow-Back						
20"	52"	11"	200 lb	600 lb	6 in	**52NT85**
22"	60"	12"	200 lb	700 lb	6 in	**52NT84**
	60"	14"	200 lb	700 lb	8 in	**52NT86**



Raised Handle
No. 5WXH7



Raised Handle
No. 5WXG9



Adjustable Single-Grip Handle
No. 5WXG8

SAF-T-CART

Medical Cylinder Carts

Medical cylinder carts are used to store and transport medical gas cylinders in healthcare facilities such as hospitals, clinics, and nursing homes.

Cylinder Cap.	Load Capacity	Overall Height	Overall Width	Max. Tank Dia. Oxygen	Wheel Type	Wheel Dia.	Item No.
Holds M6 Medical Cylinders							
Raised Handle							
36	2400 lb.	38"	35"	3 ¼ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH7** *
Holds D, E Medical Cylinders							
Raised Handle							
4	250 lb.	35"	12"	4 ½ in	Semi-Pneumatic	8 in	**5WXG9**
6	250 lb.	21½"	18½"	4 ½ in	Semi-Pneumatic	8 in	**5WXH0**
12	2400 lb.	35"	21"	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH1** *
24	2400 lb.	33"	31½"	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH2** *
(2) Raised Handle							
50	2400 lb.	38"	55"	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXL8**
Adjustable Single-Grip Handle							
1	100 lb.	38"	12"	4 ½ in	Plastic	6 in	**5WXG8**
Single-Grip Handle							
2	250 lb.	35"	12"	4 ½ in	Semi-Pneumatic	8 in	**5WXL7**

Locking swivel casters



No. 26W609



No. 26W610

Dayton

Manual Cylinder Lift Platform Trucks

Manual cylinder platform lift trucks are used to move and lift heavy gas cylinders short distances, such as onto vehicle beds or storage platforms. They have a 300-lb. capacity. Their curved frame cradles cylinders, and they come with chains that secure cylinders in place. They ship assembled and come with two 5" swivel casters and two 5" rigid casters.

Description	Lifting Height Max.	Overall Length	Overall Width	Overall Height	Item No.
Hydraulic Foot Pump-Operated	40"	20¾"	29¼"	52"	**26W609**
Winch-Operated	40"	20¾"	29¼"	58"	**26W610**

Equipment and cylinders not included.



Single-Cylinder
No. 5WXN0



Single-Cylinder with Shelf
No. 5WXN5



Dual-Cylinder with Shelf
No. 5WXN6

SAF-T-CART

Running Gear Carts

Description	Item No.
Holds Cylinders up to 8¼" dia., Welder Platform 12" x 17"	**5WXN0**
Holds Cylinders 9½" dia.	**5WXN5**
29" W x 33" H, Holds (2) Cylinders 19" dia.	**5WXN6**
Holds Cylinders 6-9" in Diameter. Width 24"	**5WXN2**
Holds Cylinders 6-9" in Diameter. Width 17"	**5WXN1**
Holds Most Engine Driven Welding Machines	**5WXN4**
Holds Cylinders and Welder Platform	**453V24**



Forklift
No. 10U481



Forklift
No. 39J511

GA GRAINGER APPROVED

Cylinder Caddies

Caddies allow multiple cylinders to be lifted together using a forklift or pallet jack. All caddies have a maximum tank dia. of 9", except Nos. 10U481 and 10U482 have a maximum tank dia. of 9.5".

FORKLIFT

Cylinders can roll in and out individually. Nos. 39J511, 39J513, and 39J515 have casters.

PALLET TRUCK

For narrow access, cylinders fit in single row.



Pallet Truck
No. 10U482

Cylinder Cap.	Caddy Dimensions Cap.	H	W	L	Finish	Item No.
Forklift						
4	1500 lb.	41"	34"	23"	Orange Enamel	**39J512**
	1500 lb.	46"	34"	23"	Orange Enamel	**39J513**
6	600 lb.	35½	38"	35½	Red Powder Coated	**10U481**
	1500 lb.	41"	34"	33"	Orange Enamel	**39J514**
	1500 lb.	46"	34"	33"	Orange Enamel	**39J515**
8	1500 lb.	41"	34"	43"	Orange Enamel	**39J516**
	—	46"	34"	—	Orange Enamel	**39J511**
Pallet Truck						
4	400 lb.	39"	16"	39	Red Powder Coated	**10U482**



Ergonomic Tilt-Back No. 34D673



Spark- & Corrosion-Resistant No. 4ZH90

Cylinder Hand Trucks

Ergonomic tilt-back hand trucks are made from steel and have two swivel casters mounted on a frame extension behind their two primary wheels. The hand trucks rest on all four wheels when tilted back, which makes it easier to keep them upright when moving heavy loads.

Spark- and corrosion-resistant hand truck is made from plastic and will not create sparks that might ignite volatile gases such as welding gases. Won't rust when used in wet or damp environments.

Standard hand trucks are made from steel and are suitable for routine applications.

Handle Type	Load Capacity	Cylinder Cap.	Overall Width	Overall Height	Overall Depth	Wheel Type	Brand	Item No.
Ergonomic Tilt-Back Cylinder Trucks								
Continuous Frame Flow-Back	250 lb	1	19 in	42 in	9 ¼ in	Solid	Dayton	**34D673**
	500 lb	2	28 ¾ in	42 in	9 ¼ in	Solid	Dayton	**34D674**
		1	22 in	54 in	21 in	Pneumatic	GA	**8DEV1**
	800 lb	1	20 in	47 in	—	Solid	GA	**19G945**
Dual Handle	890 lb	2	32 in	53 in	18 ½ in	Pneumatic	Saftcart	**5WXF8**
		1	20 in	63 in	—	Pneumatic	Saftcart	**5WXG2**
Spark- & Corrosion-Resistant Cylinder Hand Trucks								
Continuous Frame Flow-Back	250 lb	1	24 ¾ in	46 in	22 ½ in	Solid	GA	**4ZH90**
	500 lb	2	23 ½ in	45 in	13 in	Semi-Pneumatic	GA	**4ZH92**
Standard Cylinder Hand Trucks								
Continuous Frame Flow-Back	250 lb	1	18 in	49 in	—	Semi-Pneumatic	Saftcart	**5WXF6**
	400 lb	1	19 in	49 in	6 in	Semi-Pneumatic	Saftcart	**5WXF9**
	500 lb	1	19 ⅝ in	48 in	9 in	Solid	Dayton	**2MPV1**
		1	21 in	48 in	9 in	Pneumatic	Dayton	**2MPV2**
		1	21 in	48 in	17 in	⅝ in Bore Size, Solid	Dayton	**4ZJ12**
	800 lb	1	14 in	47 in	8 in	Solid	GA	**9KGM3**
	1,000 lb	2	35 in	66 in	12 in	Pneumatic	Saftcart	**45PC86**
Continuous Frame Single Pin	500 lb	1	17 in	52 ¾ in	11 ½ in	Semi-Pneumatic	Dayton	**34D685**
Dual Handle	400 lb	2	20 in	49 in	9 ½ in	Semi-Pneumatic	Saftcart	**5WXG0**
	800 lb	1	14 in	49 in	8 in	Solid	GA	**9KCY2**
Specialty	500 lb	1	17 in	49 in	26 ½ in	Semi-Pneumatic	Dayton	**34D683**



Ergonomic Tilt-Back Welding Hand Truck No. 6W055



Firewall Welding Hand Truck No. 34D682



Welding Hand Truck No. 5WXD4

Welding Cylinder Hand Trucks

Hold two gas cylinders and come with a chain or strap for securing cylinders. These steel trucks can be used to move oxygen and acetylene cylinders in welding applications.

Ergonomic tilt-back welding cylinder truck has two swivel casters mounted on a frame extension behind its two primary wheels. Truck rests on all four wheels when tilted back, which makes it easier to keep it upright when moving heavy cylinders. Suitable for temporary storage applications (less than 24 hours).

Firewall welding cylinder trucks have a steel firewall that creates a barrier between cylinders on the hand trucks to help prevent fires or explosions while also protecting cylinders from damage during transport and storage. Suitable for extended-storage applications (more than 24 hours).

Welding cylinder hand trucks are suitable for temporary storage applications (less than 24 hours).

Handle Type	Load Capacity	Overall Width	Overall Height	Overall Depth	Wheel Type	Brand	Item No.
Ergonomic Tilt-Back Welding Cylinder Hand Truck							
T-Handle	500 lb.	22"	43½"	14"	Semi-Pneumatic	Dayton	**6W055**
Firewall Welding Cylinder Hand Trucks							
Continuous Frame	780 lb.	35"	62"	12½"	Pneumatic	Saftcart	**5WXF3**
		38"	75"	12½"	Pneumatic	Saftcart	**5WXK9**
	1000 lb.	40"	62"	12½"	—	Saftcart	**5WXF4**
Continuous Frame Flow-Back	400 lb.	19"	62"	8½"	Semi-Pneumatic	Saftcart	**5WXF1**
		22"	62"	12½"	Semi-Pneumatic	Saftcart	**5WXL0**
		35"	62"	12½"	Pneumatic	Saftcart	**5WXF2**
Dual Handle	500 lb.	40"	66"	9½"	Pneumatic	Dayton	**34D682**
Welding Cylinder Hand Trucks							
Continuous Frame	500 lb.	34"	64"	25.5"	Pneumatic	Dayton	**4ZJ08**
	780 lb.	35"	62"	12½"	Pneumatic	Saftcart	**5WXF5**
		35"	62"	12½"	Pneumatic	Saftcart	**5WXE8**
	1680 lb.	40"	62"	12½"	—	Saftcart	**5WXF0**
Continuous Frame Flow-Back	200 lb.	22"	42"	8"	Semi-Pneumatic	Saftcart	**5WXD2**
	250 lb.	25"	45"	6½"	Semi-Pneumatic	Saftcart	**5WXK6**
	400 lb.	19"	50"	6½"	Semi-Pneumatic	Saftcart	**5WXD8**
		21"	42"	6½"	Semi-Pneumatic	Saftcart	**5WXD5**
		27"	45"	6½"	Polyolefin	Saftcart	**5WXK8**
		27"	45"	6½"	Semi-Pneumatic	Saftcart	**5WXD4**
		30"	44"	12½"	Semi-Pneumatic	Saftcart	**5WXD9**
		31"	42"	6½"	—	Saftcart	**5WXD7**
		31"	46"	12½"	Semi-Pneumatic	Saftcart	**5WXE2**
		33"	44"	12½"	—	Saftcart	**5WXE1**
		33"	46"	12½"	—	Saftcart	**5WXE4**
		33"	50"	12½"	Steel	Saftcart	**5WXL1**
		34"	46"	12½"	—	Saftcart	**5WXE6**
	500 lb.	27"	42"	18"	Solid	Dayton	**4ZJ05**
		32¾"	43½"	22"	Semi-Pneumatic	Dayton	**5Z082**
	780 lb.	27"	42"	9½"	Pneumatic	Saftcart	**5WXD6**
		35"	44"	12½"	Pneumatic	Saftcart	**5WXE0**
	800 lb.	30"	45"	6½"	Pneumatic	Saftcart	**5WXK7**
	1680 lb.	40"	46"	12½"	Auto Tire	Saftcart	**5WXE7**
T-Handle	225 lb.	22"	43½"	14"	Semi-Pneumatic	Dayton	**2W514**
	250 lb.	21"	45"	6½"	Semi-Pneumatic	Saftcart	**5WXD3**



Powered Drum Truck No. 448F53



Standard Pail Truck No. 9MK73



Ergonomic Tilt-Back Drum Truck No. 34D654

Pail and Drum Hand Trucks

Come with hooks or straps to secure items.

Standard hand trucks are suitable for general purpose applications.

Powered hand trucks have a battery-powered motor that reduces effort when moving loaded trucks.

Knock-down hand trucks are sold unassembled and cost less to ship.

Ergonomic tilt-back hand trucks have two swivel casters mounted on a frame extension behind their two primary wheels. The hand trucks rest on all four wheels when tilted back, which makes it easier to keep them upright when moving heavy loads.

Corrosion-resistant hand trucks resist rusting when exposed to frequent washdowns or cleaning.

Handle Type	Load Capacity	Drum Cap.	Overall Width	Overall Height	Wheel Material	Brand	Item No.
For Use with Drums							
Standard							
Continuous Frame Flow-Back	600 lb.	30, 55 gal	19¾"	50"	Rubber	GA	**9WEK8**
	650 lb.	17 to 32 gal	22½"	48"	Pneumatic	Dayton	**6W854**
	800 lb.	17 to 32 gal	20½"	48"	Rubber	Dayton	**6W853**
Dual Handle	1000 lb.	30, 55, 85 gal	24½"	59¾"	Polyurethane	Wesco	**445K76**
		30, 55 gal	23½"	56½"	Polyolefin	Dayton	**34D664**
		30, 55 gal	26"	60"	Rubber	GA	**9WCX3**
		55 gal	23½"	59½"	Rubber	Dayton	**34D646**
		55 gal	24"	59½"	Rubber	Dayton	**34D649**
		55 gal	24½"	61½"	Rubber	GA	**447H71**
	1200 lb.	30 to 85 gal	24½"	59½"	Rubber	GA	**8AZL5**
Powered							
Dual Handle	800 lb.	30, 55 gal	24½"	60"	Pneumatic	Valley Craft	**448F54**
		30, 55 gal	24½"	60"	Rubber	Valley Craft	**448F53**
Knock-Down							
Dual Handle	1000 lb.	30, 55, 85 gal	24½"	59¾"	Polyurethane	Wesco	**445K75**
Ergonomic Tilt-Back							
Dual Handle	700 lb.	30 to 85 gal	28"	35½"	Pneumatic	Dayton	**34D654**
	1000 lb.	30 to 85 gal	25"	38¼"	Rubber	Dayton	**34D652**
		55 gal	23¾"	57½"	Rubber	Dayton	**34D650**
		55 gal	23¾"	57½"	Polyolefin	Dayton	**34D665**
		55 gal	24"	56½"	Rubber	Dayton	**34D644**
		55 gal	24"	59"	Rubber	Dayton	**34D647**
Corrosion-Resisant							
Continuous Frame Loop	600 lb.	—	22½"	48"	Polyurethane	GA	**445K87**
Dual Handle	1000 lb.	30, 55, 85 gal	24½"	59¾"	Polyolefin	Wesco	**445K78**
		30, 55, 85 gal	24½"	59¾"	Polyolefin	Wesco	**445K77**
For Use with Pails							
Standard							
Continuous Frame Flow-Back	300 lb.	5 gal	18½"	55½"	Rubber	GA	**9MK73**
Dual Handle	500 lb.	—	20"	55"	—	Dayton	**2NXC4**

Dayton ★GA GRAINGER APPROVED

Appliance Hand Trucks

The short, wide nose plate on these hand trucks slides under the edge of an appliance and supports it as it's moved on the trucks. The trucks have rear stair crawlers that roll smoothly over stairs and curbs. They also have a dual-loop handle and come with belts for securing loads to the trucks. **Tilt-back hand trucks** have two swivel casters mounted on a frame extension behind their two primary wheels. The hand trucks rest on all four wheels when tilted back, which makes it easier to keep them upright when moving heavy loads and lets users open doors and do other tasks without having to support the hand trucks or return them to vertical and then re-tilt them again.

Load Capacity	Nose Plate Width	Nose Plate Depth	Overall Width	Overall Height	Overall Depth	Includes	Brand	Item No.
Hand Trucks								
Aluminum								
550 lb.	24"	4⅞"	24"	61"	11½"	With (2) Security Belts With Auto-Rewind Ratchet	Dayton	**34D657**
	24"	4⅞"	24"	61"	11½"	With Security Belt With Auto-Rewind Ratchet	Dayton	**34D656**
Steel								
700 lb.	24"	4½"	24"	60"	11⅛"	With Ratchet Belt	Dayton	**3W042**
	24"	4½"	24"	60"	11⅛"	With Manual Belt Crank	Dayton	**4W326**
750 lb.	24"	5¼"	24"	61½"	15⅜"	With Cargo Belt and Ratchet Tightener	Dayton	**34D669**
Aluminum/Steel								
700 lb.	24"	4½"	24"	60"	11⅛"	With Ratchet Belt	Dayton	**3W311**
Tilt-Back Hand Trucks								
Aluminum								
550 lb.	24"	4⅞"	24"	61"	11½"	With Security Belt With Auto-Rewind Ratchet	Dayton	**34D681**
Steel								
1200 lb.	24"	5¼"	24"	61¼"	15½"	With Ratchet Belt	Dayton	**4XKJ2**
	24"	5¼"	24"	66"	15½"	With Ratchet Belt	Dayton	**4XKJ3**
	24"	5¼"	24"	72"	15½"	With Ratchet Belt	Dayton	**4XKJ4**
1800 lb.	24"	2½"	27"	72"	16"	With Cargo Belt and Ratchet Tightener	GA	**445K81**
	24"	2½"	27"	78"	16"	With Cargo Belt and Ratchet Tightener	GA	**445K82**



No. 34D657



No. 445K81



No. 13V407



No. 13V409

Dayton

Machinery and Equipment Movers

Machinery and equipment movers have forks or nose plates that slide under heavy equipment such as furniture, crates, and machinery, and they have a lifting mechanism that reduces physical effort when raising equipment off the floor. They are sold in pairs and must be used in pairs. Each mover requires one operator. Nos. 13V412, 13V407, 13V408, and 13V411 include load-securing straps.

Load Capacity	Overall Dim. W	Overall Dim. H	Roller Material	Roller Dia.	Lift Height	Item No.
Furniture and Crate Mover						
4000 lb.	15"	49"	—	—	12"	**13V412**
Machinery Mover Hand Trucks						
1300 lb.	15½"	32½"	Mold-on Polyurethane	6"	15"	**13V407**
1320 lb.	15"	32½"	Mold-on Polyurethane	6"	12"	**13V408**
2000 lb.	12½"	48½"	Phenolic	5"	5"	**13V409**
	12½"	48½"	Mold-on Polyurethane	5"	5"	**13V410**
4000 lb.	15"	42"	Mold-on Polyurethane	6"	12"	**13V411**
	16½"	43⅝"	Steel	6"	12"	**13V413**
	16½"	43⅜"	Urethane	6"	12"	**13V414**
6000 lb.	18½"	41⅜"	Urethane	6"	6"	**13V416**
	18½"	41⅜"	Steel	6"	6"	**13V415**
	18½"	44"	Urethane	6"	12"	**13V418**
8000 lb.	18½"	43⅜"	Urethane	8"	6"	**13V419**
10,000 lb.	18½"	47⅝"	Steel	8"	6"	**13V420**
	18½"	47⅝"	Urethane	8"	6"	**13V421**



No. 4XKJ2

Dayton

Vending Machine Hand Trucks

These hand trucks have two swivel casters mounted on a frame extension behind their two 8"-dia. rubber wheels. The hand trucks rest on all four wheels when tilted back, which makes it easier to keep them upright when moving heavy vending machines and lets users open doors and do other tasks without having to support the hand trucks or return them to vertical and then re-tilt them. Ratchet belt tightener with auto-rewind secures loads to the trucks. All have a steel frame except No. 34D681, which has an aluminum frame.

Load Capacity	Overall Height	Overall Width	Overall Depth	Nose Plate Depth	Nose Plate Width	Item No.
550 lb.	61"	24"	11½"	4⅞"	24"	**34D681**
1200 lb.	61¼"	24"	15½"	5¼"	24"	**4XKJ2**
1200 lb.	66"	24"	15½"	5¼"	24"	**4XKJ3**
1200 lb.	72"	24"	15½"	5¼"	24"	**4XKJ4**

Find ramps on page 1127.



Stacking Chair Truck
No. 18F457



File Cabinet Truck
No. 2LRL3



Folded Chair Truck
No. 30F012

Dayton GA GRAINGER APPROVED

Furniture Hand Trucks

Furniture hand trucks are used to move furniture such as cabinets and chairs. They have continuous frame flow-back handles.

Stacking chair hand trucks cradle columns of stackable chairs.

Folded chair hand truck has hanger posts that can hold multiple folding chairs.

File cabinet hand truck has a shallow nose plate that slides under the edge of a file cabinet, and it has an adjustable arm that grasps the top front edge of the cabinet and hold it in place on the trucks.

Load Capacity	Overall Height	Overall Depth	Wheel Type	Brand	Item No.
Stacking Chair Trucks					
240 lb.	48"	33"	Rubber	Dayton	**30F010**
	48"	35½"	Rubber	Dayton	**30F009**
	50"	23½"	Pneumatic	Dayton	**30F011**
500 lb.	60"	36"	Solid	GA	**18F457**
Folded Chair Truck					
180 lb.	44"	22½"	Rubber	Dayton	**30F012**
File Cabinet Hand Truck					
400 lb.	67"	13"	Polyurethane	Dayton	**2LRL3**



No. 59UY80

Dayton MAGLINER®

Beverage-Delivery Hand Trucks

Beverage-delivery hand trucks are used to move items such as kegs, beverage cases, and 5-gal. water bottles. These upright trucks have lightweight aluminum frames and nose plates and will not rust when used in damp or wet environments.

Load Capacity	Nose Plate Width	Nose Plate Depth	Overall Height	Overall Width	Wheel Type	Brand	Item No.
Continuous Frame Loop							
500 lb.	10"	14"	51"	19"	Semi-Pneumatic	Dayton	**4W324**
	14"	12"	55"	22"	Pneumatic	Magliner	**5PWC7**
Continuous Frame Flow-Back							
500 lb.	14"	12"	49"	20¾"	Pneumatic	Magliner	**59UY80**
Continuous Frame Single Pin							
300 lb.	13½"	9"	48½"	21"	Solid	Magliner	**59UY81**
Continuous Frame Dual Pin							
500 lb.	10"	14"	51"	19"	Pneumatic	Dayton	**4W325**



Bag Truck
No. 3W487

Fork Truck
No. 2LRL4

Dayton

Bag and Pallet Hand Trucks

Bag and pallet hand trucks are used to transport mini-pallets of goods or irregularly shaped loads such as bags of cement, fertilizer, animal feed, and flour. They have dual handles and wheel guards that prevent items on the trucks from rubbing against the wheels.

Description	Load Capacity	Overall Height	Overall Width	Overall Depth	Wheel Type	Item No.
Bag Hand Truck	500 lb.	45"	19"	12¼"	Semi-Pneumatic	**3W487**
Fork Hand Truck	1000 lb.	53"	25½"	24¼"	Mold-On	**2LRL4**



No. 48J068



No. 48J062



No. 48J078



No. 48J066

Hardwood and Fiberwood Dollies

GA GRAINGER APPROVED

- Shipped assembled
- 4 swivel casters

HARDWOOD

Double-ball raceway, hard rubber casters are secured with nylon locknuts. Natural color. Nos. 48J062 through 48J065 have towing eye.

FIBERWOOD

2 hand holes for ease of moving. PVC edges. Black color.

Platform Material	Load Capacity	Platform Length	Platform Width	Platform Height	Caster Wheel Dia.	Color	Item No.
Open, Carpeted Raised Ends							
		16"	16"	5¼"	3"	Natural	**48J067**
Hardwood	1000 lb.	30"	18"	5¼"	3"	Natural	**48J068**
		30"	18"	6⅛"	4"	Natural	**48J069**
Open, Flush							
		24"	16"	5⅛"	3"	Natural	**48J062**
Hardwood	1000 lb.	30"	18"	5⅛"	3"	Natural	**48J063**
		36"	24"	6¼"	4"	Natural	**48J064**
Open, Rubber Raised Ends							
		30"	18"	6¾"	3"	Natural	**48J070**
Hardwood	1000 lb.	30"	18"	6⅞"	4"	Natural	**48J072**
		30"	18"	6¾"	4"	Natural	**48J071**
Solid, Flush							
	600 lb.	36"	24"	4⅝16"	3"	Black	**48J078**
Fiberwood		36"	24"	5⅜"	4"	Black	**48J079**
	700 lb.	36"	18"	4⅝16"	3"	Black	**48J080**
	800 lb.	24"	18"	4⅝16"	3"	Black	**48J081**
Hardwood	1000 lb.	30"	18"	5¼"	3"	Natural	**48J065**
		36"	24"	6⅛"	4"	Natural	**48J066**
	900 lb.	36"	24"	6¾"	3"	Black	**48J075**
Vinyl Covered Hardwood		24"	16"	7¾"	4"	Black	**48J074**
	1200 lb.	36"	24"	7¾"	4"	Black	**48J076**
		48"	24"	7¾"	4"	Black	**48J077**



No. 10Z905



No. 10Z910

Plastic Dollies

GA GRAINGER APPROVED

- Shipped assembled
- Nonmarking swivel casters

Nos. 10Z905 and 10Z910 include hand hold. No. 10Z910 can be connected at edges to form a larger dolly. No. 10Z908 features PVC pads to help prevent wall damage.

Platform Material	Load Capacity	Platform Length	Platform Width	Platform Height	Caster Wheel Dia.	Color	Item No.
Open, Flush							
Plastic	1000 lb.	30"	18"	6¼"	4"	Blue	**10Z909**
Open, Raised Ends							
Plastic	1000 lb.	30"	18"	6¼"	4"	Blue	**10Z908**
	1200 lb.	30"	18"	6½"	4"	Red	**35YM02**
Solid, Flush							
Plastic	220 lb.	24"	16"	4½"	3"	Blue	**10Z905**
	300 lb.	24"	16"	4½"	3"	Black	**10Z910**
Polypropylene	500 lb.	35"	23"	8"	5"	Blue	**10Z907**
		28½"	19"	6"	4"	Blue	**10Z906**



No. 29AK53



No. 4HRG7

Pry-Lever Bars

GA GRAINGER APPROVED

Two 5" x 2" wheels, ½"-thick beveled edge noseplate.

Load Capacity	Noseplate Depth	Noseplate Width	Overall Length	Wheel Material	Item No.
Steel Handle					
5000 lb.	3½"	6"	60"	Poly on Steel	**29AK53**
	3½"	6"	72"	Poly on Steel	**29AK54**
Wood Handle					
3500 lb.	3"	5"	60"	Rubber Mold-on Cast Iron	**4HRG6**
	3"	5"	60"	Semi-Steel with Plain Bore	**3KNA3**
4250 lb.	3"	5"	72"	Rubber Mold-on Cast Iron	**4HRG7**
	3"	5"	72"	Semi-Steel with Plain Bore	**3KNA4**
5000 lb.	3"	5"	84"	Semi-Steel with Plain Bore	**3KNA5**
	3"	5"	84"	Rubber Mold-on Cast Iron	**4HRG8**



Adjustable Dolly, Open, Flush
No. 48J131



General Purpose, Channel Deck
No. 2TUN8



General Purpose, Solid w/ Lip Up
No. 24WF58

GA GRAINGER APPROVED

Metal Dollies

All include receivers for pulling handle. No. 4ZD55 has foot lever action.

Platform Material	Load Capacity	Platform Length	Platform Width	Platform Height	Caster Wheel Dia.	Color	Item No.	
Adjustable Dollies								
Open								
Steel	500 lb.	—	—	2¾"	3"	—	**4ZD55**	
Open, Flush								
Steel	2000 lb.	24½"	34"	7"	4"	Red	**48J131**	
	3000 lb.	24½"	34"	8⅞"	6"	Red	**48J132**	
General Purpose Dollies								
Channel Deck								
Aluminum	2000 lb.	36"	21"	9"	5"	Silver	**2TUN8**	
		42"	24"	9"	5"	Silver	**2TUN9**	
Open, Flush								
Aluminum	900 lb.	24"	18"	5¼"	3"	Silver	**2TUP1**	
		30"	21"	5¼"	3"	Silver	**2TUP2**	
Steel	1600 lb.	30"	18"	5½"	4"	Red	**2TUL5**	
		36"	24"	5½"	4"	Red	**2TUL6**	
	2000 lb.	30"	18"	5½"	4"	Red	**2TUL7**	
		36"	24"	5½"	4"	Red	**2TUL8**	
Perforated								
Steel	1000 lb.	36"	24"	4"	3"	Red	**48J094**	
		36"	24"	6"	3"	Red	**48J098**	
Solid, Flush								
Steel	1000 lb.	24"	18"	4"	3"	Red	**48J095**	
		32"	18"	4"	3"	Red	**48J096**	
		36"	24"	4"	3"	Red	**48J097**	
	1600 lb.	30"	18"	5⅜"	4"	Red	**2TUL9**	
		36"	24"	5⅜"	4"	Red	**2TUN1**	
	2000 lb.	30"	18"	5⅜"	4"	Red	**2TUN2**	
		36"	24"	5⅜"	4"	Red	**2TUN3**	
Solid, With Lip Up								
Steel	500 lb.	16½"	26⅞"	4 1⁄16"	3"	Gray	**24WF55**	
		26 13⁄16"	18⅜"	3½"	2"	Gray	**24WF54**	
		36"	24"	5"	4"	Gray	**24WF52**	
	900 lb.	19"	14½"	5"	3"	Gray	**24WF53**	
		19½"	14"	5"	3"	Gray	**24WF56**	*
		21¼"	16¼"	5"	3"	Gray	**24WF59**	
		24¼"	16¼"	5"	3"	Gray	**24WF58**	
		27½"	17½"	5"	3"	Gray	**24WF57**	*
	1000 lb.	24"	18"	6"	3"	Red	**48J099**	
		32"	18"	6"	3"	Red	**48J101**	
		36"	24"	6"	3"	Red	**48J102**	
	1600 lb.	30"	18"	6⅜"	4"	Red	**2TUN4**	

** Includes 2 floor locks.*

With (2) Floor Locks
No. 48J088



With Handle
No. 48J085



GA GRAINGER APPROVED

Steel Pallet Dollies

- Open, flush design
- 6"-dia. casters

Load Capacity	Platform Length	Platform Width	Platform Height	Item No.	WITH (2) FLOOR LOCKS Item No.	WITH HANDLE Item No.	WITH HANDLE AND (2) FLOOR LOCKS Item No.
3600 lb.	48"	40"	9"	**48J082**	**48J088**	**48J085**	**48J091**
	48"	42"	9"	**48J083**	**48J089**	**48J086**	—
	48"	48"	9"	**48J084**	**48J090**	**48J087**	**48J093**



No. 48J129



No. 48J128



No. 2TUT2



No. 2TUT1

GA GRAINGER APPROVED

Steel and Aluminum Cabinet Dollies

- Shipped unassembled
- 3 swivel casters, except Nos. 48J129 and 48J130 come with 4 swivel casters

Nos. 2TUT2, 2TUR9, and 2TUT1 allow the corner of the load to be raised to slide the dolly underneath.

Platform Style	Load Capacity	Platform Length	Platform Width	Platform Height	Caster Wheel Dia.	Item No.	Pkg. Qty.
Steel							
V-Groove	500 lb.	8"	8"	4"	2"	**48J129**	2
	500 lb.	8"	8"	4"	2"	**48J130**	4
Recessed Platform	400 lb.	19¾"	8"	4"	2½"	**48J128**	1
Recessed Pocket	200 lb.	5¾"	2¼"	2 1⁄16"	1¼"	**3JJF2**	1
	1320 lb.	10¼"	10¼"	3½"	2"	**2TUT2**	4
Vinyl Coated Steel							
Recessed Platform	550 lb.	19¾"	8"	3"	2½"	**14G827**	1
Aluminum							
Recessed Pocket	880 lb.	7¾"	6½"	3½"	2"	**2TUT1**	4
Recessed Platform	880 lb.	8¾"	8¾"	3½"	2"	**2TUR9**	4



No. 30E983

RAYMOND PRODUCTS Dayton

Desk Lifts

Allow a single person to transport desks up to 600 lb. Table lift attachment helps you lift small equipment. Use the single pedestal attachment when moving desks that have drawers on only 1 side.

Platform Depth	Platform Width	Lowered Height	Raised Height	Caster Dia.	Brand	Item No.	
16"	32"	4¼"	9¾"	2½"	Raymond Products	**4ADE2**	
		4¾"	10¼"	3"	Raymond Products	**4ADE5**	
		5"	9¾"	2½"	Dayton	**30E983**	*
		5½"	10¼"	3"	Dayton	**30E986**	*
			10¾"	3½"	Dayton	**30E989**	*
			10¾"	3½"	Raymond Products	**4ADE8**	
		6"	11¼"	4"	Dayton	**30E992**	*
			11¼"	4"	Raymond Products	**4ADF2**	
	40"	1¼"	6¼"	4"	Dayton	**30E995**	*
		4¼"	9¾"	2½"	Raymond Products	**4ADE3**	
			10¼"	3"	Raymond Products	**4ADE6**	
		4¾"	10¼"	3"	Dayton	**30E987**	*
		5"	9¾"	2½"	Dayton	**30E984**	*
		5½"	10¾"	3½"	Dayton	**30E990**	*
			10¾"	3½"	Raymond Products	**4ADE9**	
		6"	11¼"	4"	Dayton	**30E993**	*
			11¼"	4"	Raymond Products	**4ADF3**	
	46"	4¼"	9¾"	2½"	Raymond Products	**4ADE4**	
		4¾"	10¼"	3"	Raymond Products	**4ADE7**	
		5"	9¾"	2½"	Dayton	**30E985**	*
		5½"	10¼"	3"	Dayton	**30E988**	*
			10¾"	3½"	Dayton	**30E991**	*
			10¾"	3½"	Raymond Products	**4ADF1**	
		6"	11¼"	4"	Dayton	**30E994**	*
			11¼"	4"	Raymond Products	**4ADF4**	
Accessories							
Table Lift Attachment, 250 lb Capacity, 17½" x 20 in x 19 in					Dayton	**30E996**	
Single Pedestal Attachment, 250 lb Capacity, 17½" x 14 ½ in x 19 in					Dayton	**30E997**	

** Swivel casters.*

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Dayton GKS

Back & Front-Support Machine Rollers

For transporting heavy industrial machinery.

BACK & FRONT STEERMAN SKATES

Front skate trolleys work with the steering handle and the center turntable which is supported on a large-diameter thrust bearing. Front skates feature a rugged steel frame, rubber grip on handle, and a rubber pad. Front and back units can be mixed and matched to accommodate varying load capacities.

ROTATING DOLLIES

Rotate a full 360° for ultimate maneuverability of heavy loads in confined spaces. Steel dollies are 4 5/16" high. No. 4YCR8 is 27"L x 20 5/16"W and has 3 wheels; Nos. 4YCR9 is 29 1/2"L x 22 1/8"W and has 5 wheels.


Back Skate
No. 5ERK6


Machine Dolly
No. 4YCZ7


Rotating Machine Dollies
No. 4YCR9


Tandem Machine Dolly
No. 4YCT6

Load Capacity	No. of Rollers	Overall Length	Roller Dia.	Brand	Item No.
Back Steerman Skates					
11,000 lb.	8	40"	3 3/8"	Dayton	5ERK2
16,500 lb.	12	40"	3 3/8"	Dayton	5ERK4
22,000 lb.	16	40"	3 3/8"	Dayton	5ERK6
33,000 lb.	16	41 3/4"	5 1/2"	Dayton	5ERK8
Front Steerman Skates					
11,000 lb.	8	20"	3 3/8"	Dayton	5ERK1
16,500 lb.	12	22 3/4"	3 3/8"	Dayton	5ERK3
22,000 lb.	16	24 5/16"	3 3/8"	Dayton	5ERK5
33,000 lb.	16	29 5/16"	5 1/2"	Dayton	5ERK7
Machine Dollies					
4400 lb.	4	7 3/16"	2 5/8"	Gks-Perfekt	4YCZ2
	4	9 5/16"	2 5/8"	Gks-Perfekt	4YCZ3
6600 lb.	4	5 7/8"	3 5/16"	Gks-Perfekt	4YCZ4
	4	10 5/8"	3 5/16"	Gks-Perfekt	4YCZ5
13,200 lb.	8	7 7/8"	3 5/16"	Gks-Perfekt	4YCZ6
	8	24"	3 5/16"	Gks-Perfekt	4YCZ7
19,800 lb.	12	7 7/8"	3 5/16"	Gks-Perfekt	4YCZ8
	12	33 1/8"	3 5/16"	Gks-Perfekt	4YCZ9
26,400 lb.	16	8 1 1/16"	3 5/16"	Gks-Perfekt	4YDA1
	16	40 5/8"	3 5/16"	Gks-Perfekt	4YDA2
39,600 lb.	16	8 1 1/16"	3 5/16"	Gks-Perfekt	4YDA3
	16	40 5/8"	3 5/16"	Gks-Perfekt	4YDA4
44,000 lb.	8	11"	5 1/2"	Gks-Perfekt	4YDA5
	8	28 1 1/16"	5 1/2"	Gks-Perfekt	4YDA6
66,000 lb.	12	13 3/4"	5 1/2"	Gks-Perfekt	4YDA7
	12	31 7/8"	5 1/2"	Gks-Perfekt	4YDA8
88,000 lb.	16	16 5/8"	5 1/2"	Gks-Perfekt	4YDA9
	16	33 1 1/16"	5 1/2"	Gks-Perfekt	4YDC1
132,000 lb.	24	17 7/16"	5 1/2"	Gks-Perfekt	4YDC2
	24	32 7/8"	5 1/2"	Gks-Perfekt	4YDC3
Rotating Machine Dollies					
4400 lb.	3	27"	3 5/16"	Gks-Perfekt	4YCR8
8800 lb.	5	29 1/2"	3 5/16"	Gks-Perfekt	4YCR9
Tandem Machine Dollies					
13,200 lb.	16	—	3 5/16"	Gks-Perfekt	4YCT6
26,400 lb.	8	46 9/32"	3 5/16"	Gks-Perfekt	4YCT7
44,000 lb.	16	46 9/32"	5 1/2"	Gks-Perfekt	4YCT8
88,000 lb.	16	46 9/32"	5 1/2"	Gks-Perfekt	4YCT9


No. 2MPP9


No. 2MWK6

Dayton HILMAN ROLLERS WWW.HILMANROLLERS.COM

Machine Roller Kits

All kits include 4 swivel-base steel rollers, 2 steering handles, and a lockable steel case (except Nos. 2MWK3 and 2MWK4 which do not come with case).

Dayton®—Nos. 2MPR1 to 2MPR3 have spring-loaded locks at 45° increments.

Hilman—Nos. 2MWK5 to 2MWK8 have rollers constructed of high-impact nylon that will not damage finished floor surfaces.

Load Capacity	Handle Length	Item No.
Dayton		
8800 lb.	33 1/2"	2MPP9
33,000 lb.	54 1/2"	2MPR1
88,000 lb.	54 1/2"	2MPR2
132,000 lb.	54 1/2"	2MPR3
Hilman		
6000 lb.	36"	6W041
8000 lb.	30"	2MWK5
16,000 lb.	28 1/4"	6W042
16,000 lb.	48"	2MWK6
24,000 lb.	48"	2MWK7
30,000 lb.	48"	3VH82
48,000 lb.	48"	2MWK8
80,000 lb.	48"	6W043
120,000 lb.	48"	3VH83
240,000 lb.	60"	2MWK3
400,000 lb.	60"	2MWK4


No. 2MPR8

Dayton

Nylon Equipment Skates

Steel frame housing and built-in handles. Overall height is 4 3/4".

Roller Type	Load Capacity	Item No.
Rigid	2200 lb.	2MPR4
	4400 lb.	2MPR5
	5500 lb.	2MPR6
	6600 lb.	2MPR7
	13,200 lb.	2MPR8
(2) Swivel (2) Rigid	2200 lb.	2MPR9
Swivel	2200 lb.	2MPT1


Roller Unit


Steering Bar

Turning Bar

Dayton

Iron Equipment Rollers

Rollers include a rigid chain of steel rolls that rotate around a central load plate within the frame. Steering bars allow precise control for maneuvering large machinery or navigating tight areas. Turning bar has swivel-top rollers with a spring-loaded 45° lock.

Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Equipment Roller				
2000 lb.	8"	3 5/8"	3 3/16"	21D020
8000 lb.	10 1/2"	5 3/4"	4 3/4"	21D021
15,000 lb.	10 1/2"	5 3/4"	5"	21D022
30,000 lb.	12 3/4"	6 1/2"	4 3/4"	21D023

For Use With	Overall Length	Item No.
Steering Bar		
No. 21D020 Roller Unit	36"	21D024
	49 1/2"	21D025
Nos. 21D021, 21D022, 21D023 Roller Units	36"	21D026
	49 1/2"	21D027
Turning Bar		
Nos. 21D021, 21D022, 21D023 Roller Units	36"	21D028

GKS

Hydraulic Pumps, Toe Jacks, and Rollers

Hydraulic Pumps—Enable 1-person operation or increasing load capacity with use of multiple jacks. Synchronous pressure pumps provide the ability to safely lift heavy loads with multiple toe jacks simultaneously.

Hydraulic Toe Jacks—Made of high-grade stainless material. Include cast-iron toe, antislip pad on load surface, coupling adapter for remote operation of 2 or more jacks with a pump, and telescopic handle. Toe hook can be height-adjusted to the lifting point. Safety valve prevents overloading. Meet ASME/ANSI standards.


Hydraulic Toe Jack

Description	Application	Item No.
Hydraulic Pumps		
Hydraulic Hand Pump	Use with Two 5, 10, 15 or 20-Ton Toe Jacks	4YCT4
Hydraulic Electric Hand Pump	Use with Two 5, 10, 15, 20 and 30-Ton Toe Jacks	4YCT5

Load Cap.	Lifting Height Max.	Lifting Height Min.	Item No.
Hydraulic Toe Jacks			
5 tons	5 1/4"	5/8"	4YDD6
10 tons	6 5/16"	5/8"	4YDD7
15 tons	6 5/16"	1"	4YDD8
20 tons	6 5/16"	1 3/16"	4YDD9
30 tons	6 1/8"	1 5/8"	4YDE1

Description	Load Capacity	L	Item No.
Rollers			
Black Roller	1650 lb.	3 5/16"	4YCP6
White Roller	2475 lb.	3 5/16"	4YCP7
White Roller	5500 lb.	3 5/16"	4YCP8

Caster Selection Guide

Swivel Caster: Caster raceway capable of rotating 360°.

Rigid Caster: Fixed caster without a raceway, that can roll forward or backward, but restricted from swiveling 360°.

Kingpinless Caster: Swivel caster constructed without a kingpin, provides a superior raceway for shock conditions.

Bolt Hole Caster: Stemless caster where a standard bolt is inserted into the hole and bolted to the equipment.

Pneumatic Caster: Air-filled wheels, designed for low-speed manually moved applications, providing a cushioned ride, shock absorption, and quiet operation.

Semipneumatic Caster: Extra-thick, solid, soft rubber tire has no air and eliminates the risk of a flat tire. Designed to reduce the vibration and shock caused by floor surfaces which are not smooth.

Solid Rubber Wheel Caster: Designed for high-capacity applications, featuring a solid tire construction.

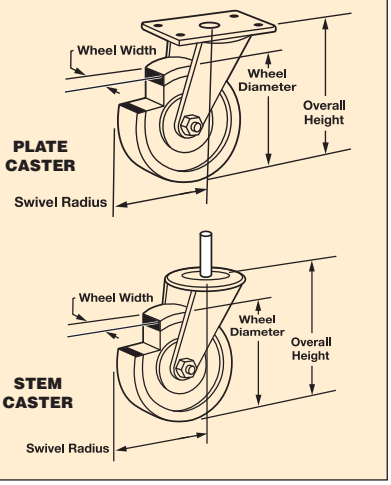
Brake: Prevents movement of the caster wheel. Not designed to stop moving equipment, nor intended for use on ramps or inclines.

4-Position Directional-Lock: Locks the swivel of the caster to a rigid position, for straight line travel.

Total-Lock: Simultaneously locks both the swivel and wheel of the caster to hold equipment in place.

Flat-Free Wheel: Solid, super elastic solid rubber tire provides shock-absorption and load handling characteristics similar to a pneumatic tire with the benefit of never going flat.

Wheel Size & Overall Height



Wheel Material Guide

Cast-Iron: High-capacity and abrasion-resistant for easy rolling and long service life on concrete.

Ductile-Iron: Superior resistance to breakage, cracking, and chipping for long service life in the most severe of applications.

Forged-Steel: Indestructible in normal applications and long service life. Used where floor protection is a secondary consideration, or for use on steel plates.

Glass-Filled Nylon: Will not chip, absorb water, or breakdown in caustic environments.

Neoprene: High resistance from oil and chemicals while providing sufficient cushioning to substantially lower or eliminate shock, vibration, and noise levels.

Nylon: Withstands solvents, corrosive environments, and temperature extremes.

Phenolic: Highly resistant to oil, grease, gasoline, and mild acids. Recommended for use on smooth concrete. Not recommended for wet applications or use over rough surfaces.

Polyolefin: Lightweight, one-piece solid sanitary design suited for use in wet and corrosive applications.

Polypropylene: Resists absorption and withstands most chemicals and solvents.

Polyurethane: Easy-rolling wheels, cushion loads, protect floors, and offer superior chemical resistance.

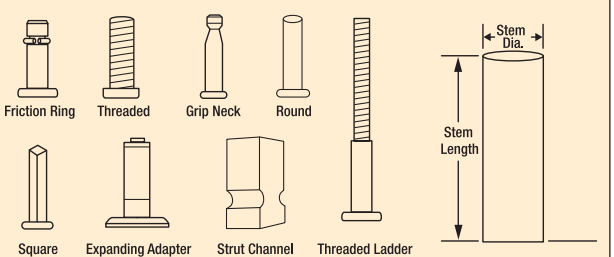
Rubber: Long-wearing wheel provides floor protection and quiet operation.

Stainless Steel: Strong and durable design, ideal for use in a wet, corrosive, or sanitary environments.

Steel: Provides strength and shock resistance with long service life and economy for use in rough service conditions.

Thermoplastic Rubber (TPR): Chemical- and water-resistant, absorbs shock and protects floors, while providing easy rollability.

Stem Types



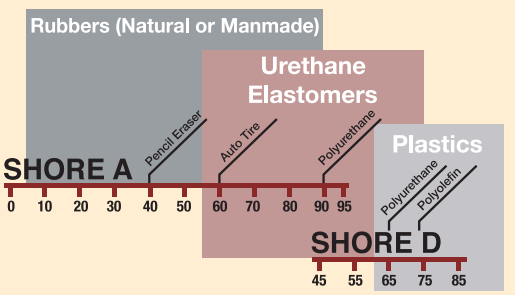
Floor-to-Wheel Guide

	Forged Steel	V-Groove Forged Steel	V-Groove Iron	V-Groove Polyurethane	Cast Iron	Phenolic	Hig Temperature Phenolic	Hig Temperature Nylon	Polyolefin	Hard Rubber	Soft Rubber	Rubber on Aluminum	Rubber on Cast Iron	Thermoplastic Rubber	Pneumatics
Finished Wood Floor	X	X	X	X	X	X	X	X	F	G	G	G	G	G	G
Finished Concrete Floor	F	X	X	X	F	E	E	E	E	G	E	E	E	E	E
Concrete Floor	G	X	X	X	G	E	E	E	E	G	E	E	E	E	E
Ceramic Tile	X	X	X	X	X	X	X	X	F	F	G	G	G	G	G
Vinyl Asphalt Rubber Tile	X	X	X	X	X	F	F	F	F	F	G	G	G	G	G
Oil, Grease, Solvents	G	G	G	G	G	F	F	F	E	G	G	G	G	G	F
Alkaline - Inorganic	F	F	F	G	G	F	F	F	E	G	G	G	G	G	F
Metal Chips on Floor	F	X	X	X	F	F	F	F	F	F	E	E	E	E	X

E = Excellent G = Good F = Fair X = Not Recommended

Wheel/Tread Hardness Rating

Measures the hardness of the wheel material—the higher the number, the harder the material. The preferred method is using either the Shore A or Shore D scale.



Load Rating

Load Rating is the maximum weight (lb.) each caster can support individually. To determine the appropriate rating for your application, divide the total weight of the load by the number of casters that will support it. It is recommended that you utilize a safety factor and multiply your load capacity by 1.33. It is important to choose a caster with a capacity that exceeds, rather than meets, load requirements.

$$\text{Load Rating} = \frac{(\text{Load Capacity} \times 1.33)}{\text{No. of Wheels}}$$

GA GRAINGER APPROVED

Light-Duty Standard Plate Casters

Light-duty standard plate casters install onto carts, dollies, food-service equipment, business machines, store fixtures, and similar equipment that will be moved manually at moderate speeds. Sometimes known as institutional plate casters, these casters have zinc-plated steel frames and are suitable for transporting relatively light loads along smooth, flat surfaces in offices, retail stores, schools, government buildings, and other settings where they won't encounter shock loading.



Rigid Caster No. 1ULJ1



Swivel Caster No. 1UKW8



Swivel Caster w/ Total Lock No. 2G035



Swivel w/ Brake No. 33H636



Plate A



Plate B



Plate C



Plate D

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size**	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Soft Thermoplastic Rubber Tread									
Plain Bearing									
2"	1"	75 lb.	2 7/16"	1 7/8" x 2 9/16"	D	435X74	435X76	435X75	
4"	1"	135 lb.	4 13/16"	2 3/4" x 3 3/4"	D	—	1UHN1	—	
Precision Ball Bearing									
3"	1 1/4"	200 lb.	4 1/4"	2 1/2" x 3 5/8"	C	1UHY2	—	1UHY6	*
4"	1 1/4"	250 lb.	5 1/8"	2 1/2" x 3 5/8"	C	1UHY4	—	1UHY8	*
	1 1/4"	250 lb.	5 3/16"	2 1/2" x 3 5/8"	C	—	1UHZ3	—	
5"	1 1/4"	325 lb.	6 3/16"	2 1/2" x 3 5/8"	C	400K44	1UHZ4	1UHY9	*
Roller Bearing									
4"	2"	350 lb.	5 5/8"	4" x 4 1/2"	B	—	1ULJ1	—	
5"	2"	400 lb.	6 1/2"	4" x 4 1/2"	B	—	—	435X89	
Delrin Bearing									
3"	1 1/4"	200 lb.	4 1/4"	2 1/2" x 3 5/8"	C	1UHW8	1UHZ1	1UHX3	*
4"	1 1/4"	300 lb.	5 1/8"	2 1/2" x 3 5/8"	C	1UHX1	—	1UHX5	*
	1 1/4"	300 lb.	5 3/16"	2 1/2" x 3 5/8"	C	—	1UHX9	—	
5"	1 1/4"	325 lb.	6 3/16"	2 1/2" x 3 5/8"	C	1UHX2	1UHY1	1UHX6	*
Soft Rubber Tread									
Plain Bearing									
2"	3/4"	110 lb.	2 1 1/16"	2 3/8" x 2 3/8"	A	16D121	19YD35	16D122	
	7/8"	75 lb.	2 1/2"	1 3/16" x 2"	D	3A814	—	—	
2 1/2"	1 1/8"	175 lb.	3 1/4"	2 3/4" x 3 7/8"	D	454Y33	—	487G82	
3"	7/8"	120 lb.	3 1/2"	1 3/4" x 2 5/8"	D	454Y32	487G73	—	
	7/8"	154 lb.	3 13/16"	2 3/8" x 2 3/8"	A	16D123	—	16D124	
	1 1/4"	125 lb.	3 3/4"	3 1/8" x 4 1/8"	A	1UKP7	—	—	
	1 1/4"	195 lb.	3 3/4"	2 3/4" x 3 3/4"	D	—	—	400K69	
4"	1"	130 lb.	4 1/8"	2 1/2" x 3 5/8"	C	487G72	489A57	—	
	1 1/8"	176 lb.	5 3/16"	3" x 3"	D	—	19YD37	—	
	1 1/4"	165 lb.	4 1 1/16"	2 3/4" x 3 3/4"	D	5X729	—	—	
	1 3/8"	225 lb.	5"	4" x 5 1/8"	D	33H787	—	—	
	1 3/8"	250 lb.	5"	4" x 5 1/8"	D	—	—	487H08	
Precision Ball Bearing									
5"	1 1/4"	200 lb.	6 3/16"	3 3/4" x 4 3/8"	B	440A72	—	—	
Roller Bearing									
4"	2"	350 lb.	5 5/8"	4" x 4 1/2"	B	—	1NWJ1	—	
Delrin Bearing									
2"	7/8"	75 lb.	2 1/2"	1 7/8" x 2 5/8"	D	1UHH5	—	1UHJ1	
	7/8"	100 lb.	3 1 1/16"	1 7/8" x 2 5/8"	D	1UHH6	—	1UHJ2	
3"	1 1/4"	125 lb.	3 3/4"	3 1/8" x 4 1/8"	A	—	1UKR6	1UKR2	
	1 1/4"	125 lb.	4 1/4"	2 1/2" x 3 5/8"	C	490V58	490V50	—	
	1 1/4"	150 lb.	3 13/16"	2 1/2" x 3 5/8"	C	33H601	—	—	
4"	1 1/4"	150 lb.	5 1/8"	2 1/2" x 3 5/8"	C	490V60	490V52	490V61	
Firm Thermoplastic Rubber Tread									
Plain Bearing									
3"	7/8"	100 lb.	3 1/2"	1 3/4" x 2 5/8"	D	—	—	1UHL1	
	7/8"	120 lb.	3 1/2"	1 3/4" x 2 5/8"	D	489A58	—	—	
Precision Ball Bearing									
3"	1 1/4"	200 lb.	4 1/4"	2 1/2" x 3 5/8"	C	4DE57	—	—	
	1 1/4"	210 lb.	4 1/4"	2 1/2" x 3 5/8"	C	—	—	2G035	*
3 1/2"	1 1/4"	200 lb.	4 1 1/16"	2 1/2" x 3 5/8"	C	4DE60	—	—	
Delrin Bearing									
5"	1 1/2"	240 lb.	6 1/4"	4" x 4 1/2"	B	487G89	—	487G83	
Firm Rubber Tread									
Plain Bearing									
3"	1"	100 lb.	3 3/4"	2 3/4" x 3 3/4"	D	—	—	1UHT8	
4"	1"	120 lb.	4 13/16"	2 3/4" x 3 3/4"	D	—	—	1UHV3	
5"	1"	125 lb.	5 13/16"	2 3/4" x 3 3/4"	D	—	1UHU7	—	
	1 1/4"	145 lb.	6 3/16"	2 1/2" x 3 5/8"	C	—	—	1UHL7	
Precision Ball Bearing									
3 1/2"	1 1/4"	250 lb.	4 1 1/16"	2 1/2" x 3 5/8"	C	1UHY3	—	1UHY7	*
4"	1 1/4"	300 lb.	5 1/8"	2 1/2" x 3 5/8"	C	—	—	490V56	
5"	1 1/4"	325 lb.	6 3/16"	2 1/2" x 3 5/8"	C	—	—	490V57	
Delrin Bearing									
3 1/2"	1 1/4"	250 lb.	4 1 1/16"	2 1/2" x 3 5/8"	C	1UHW9	—	—	
4"	1"	115 lb.	4 13/16"	2 3/4" x 3 3/4"	D	—	1UHK2	—	
6"	1 1/4"	325 lb.	7 1/4"	2 1/2" x 3 5/8"	C	454N51	454N52	—	
	1 1/4"	325 lb.	7 1/4"	3 1/8" x 4 1/8"	C	454Y19	—	—	
Firm Polyurethane Tread									
Plain Bearing									
3"	1"	125 lb.	3 13/16"	2 3/4" x 3 3/4"	D	1UHN3	1UHP3	1UHN9	
4"	1"	140 lb.	4 13/16"	2 3/4" x 3 3/4"	D	—	—	1UHP1	
	1 1/2"	550 lb.	5 5/16"	4" x 4 1/2"	B	487G94	487H07	—	
5"	1"	125 lb.	5 3/4"	2 3/4" x 3 3/4"	D	—	—	1UHP2	
	1"	145 lb.	5 3/4"	2 3/4" x 3 3/4"	D	1UHN5	1UHP5	1UHN8	
Precision Ball Bearing									
3"	1 1/4"	250 lb.	4 1/4"	2 1/2" x 3 5/8"	C	—	1UKA4	—	
3 1/2"	1 1/4"	275 lb.	4 1 1/16"	2 1/2" x 3 5/8"	C	—	—	435X80	*
4"	1 1/4"	250 lb.	5 3/16"	2 1/2" x 3 5/8"	C	4DE53	4DE54	—	
	1 1/4"	350 lb.	5 3/16"	2 1/2" x 3 5/8"	C	1UHZ7	1UKA6	1UKA2	*
	1 1/4"	400 lb.	5 1/8"	2 3/8" x 3 5/8"	D	45XC24	45XC26	45XC25	*
5"	1 1/4"	250 lb.	6 3/16"	2 1/2" x 3 5/8"	C	4DE55	4DE56	—	
	1 1/4"	350 lb.	6 3/16"	2 1/2" x 3 5/8"	C	1UHZ8	1UKA7	435X81	*
	1 1/4"	450 lb.	6 1/4"	2 3/8" x 3 5/8"	D	45XC27	45XC29	45XC28	*
Delrin Bearing									
3"	1 1/4"	175 lb.	3 3/4"	2 3/4" x 3 3/4"	D	—	—	400K66	
4"	1 1/4"	195 lb.	4 1 1/16"	2 3/4" x 3 3/4"	D	—	—	400K67	
5"	1 1/4"	220 lb.	5 5/8"	2 3/4" x 3 3/4"	D	—	435X69	400K68	

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size**	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Hard Rubber Tread									
Plain Bearing									
2"	7/8"	75 lb.	2 7/16"	1 7/8" x 2 9/16"	D	435X85	435X88	435X83	
	7/8"	150 lb.	2 7/16"	1 7/8" x 2 9/16"	B	—	—	33H636	
	7/8"	150 lb.	2 1/2"	1 1/2" x 2 5/8"	D	—	33H790	—	
	1"	100 lb.	2 1/2"	1 7/8" x 2 9/16"	D	437V27	—	—	
4"	1 1/8"	176 lb.	5 3/16"	3" x 3"	D	16D125	—	16D126	
5"	1"	200 lb.	5 7/8"	2 1/2" x 3 5/8"	C	437V26	400K72	—	
Delrin Bearing									
2 1/2"	1 1/8"	175 lb.	3 3/8"	2 1/2" x 3 5/8"	C	435X95	—	—	
	1 1/4"	175 lb.	3 3/8"	2 1/2" x 3 5/8"	C	1UKU1	—	1UKU6	
4"	1 1/4"	350 lb.	5 1/8"	3 1/8" x 4 1/8"	C	454Y21	—	—	
	1 3/8"	300 lb.	5 1/8"	4" x 5"	D	1UKU4	—	—	
Hard Polyurethane Tread									
Precision Ball Bearing									
5"	1 1/4"	325 lb.	6 3/16"	2 1/2" x 3 5/8"	C	49H605	—	—	
Delrin Bearing									
4"	1 1/2"	350 lb.	5 5/16"	4" x 4 1/2"	B	—	—	487G84	
5"	1 1/2"	440 lb.	6 1/4"	4" x 4 1/2"	B	—	—	487G88	
Hard Polypropylene Tread									
Plain Bearing									
3"	1 1/4"	210 lb.	3 13/16"	3 1/8" x 4 1/8"	C	—	—	440A70	
Precision Ball Bearing									
4"	1 1/4"	275 lb.	5 1/8"	3 3/4" x 4 3/8"	B	440A73	33J013	33H644	
5"	1 1/4"	300 lb.	6 3/16"	3 3/4" x 4 3/8"	B	440A74	33J008	33H645	
Hard Polyolefin Tread									
Plain Bearing									
2"	7/8"	100 lb.	2 1/2"	1 7/8" x 2 5/8"	D	1UHP6	—	1UHR2	
3"	1"	125 lb.	3 13/16"	2 3/4" x 3 3/4"	D	426A77	—	—	
4"	1"	140 lb.	4 13/16"	2 3/4" x 3 3/4"	D	416P27	—	—	
5"	1"	145 lb.	5 13/16"	2 3/4" x 3 3/4"	D	—	—	1UHR6	
6"	1 1/4"	400 lb.	7 5/16"	3 1/8" x 4 1/8"	A	33J010	—	—	
Delrin Bearing									
3"	1 1/4"	175 lb.	3 3/4"	2 3/4" x 3 3/4"	D	4X694	4X696	—	
4"	1 1/4"	195 lb.	4 1 1/16"	2 3/4" x 3 3/4"	D	426A81	426A82	—	
	1 1/4"	255 lb.	4 1 1/16"	2 3/4" x 3 3/4"	D	4X620	—	—	
5"	1 1/4"	220 lb.	5 5/8"	2 3/4" x 3 3/4"	D	—	—	5UX74	
	1 1/4"	220 lb.	5 5/8"	2 3/8" x 3 5/8"	D	—	435Y02	—	
	1 1/4"	220 lb.	5 3/4"	2 3/4" x 3 3/4"	D	4X695	—	—	
Hard Phenolic Tread									
Roller Bearing									
3"	1 1/2"	350 lb.	4 1/4"	3 3/4" x 4 1/2"	B	33H775	—	—	
	1 7/8"	500 lb.	3 7/8"	4" x 4 1/2"	B	426A89	—	—	
	1 7/8"	600 lb.	3 7/8"	3 1/8" x 4 1/8"	A	426A88	—	—	
Hard Nylon Tread									
Plain Bearing									
4"	1 1/4"	330 lb.	5"	4" x 3 1/8"	A	16D109	16D108	16D110	*
5"	1 1/4"	330 lb.	6"	3 1/8" x 4"	A	16D115	16D114	16D116	*
Extra-Hard Iron Tread									
Plain Bearing									
2"	1"	125 lb.	2 1 1/16"	1 15/16" x 2 9/16"	D	1UKW6	1UKX7	1UKX2	
2 1/2"	1"	175 lb.	3 7/16"	2 1/2" x 5"	A	1UKW7	—	—	
	1 1/8"	175 lb.	3 1/4"	2 3/4" x 3 7/8"	D	33H732	—	488T97	
3"	1 1/4"	210 lb.	3 13/16"	2 5/16" x 4 7/8"	D	—	33J089	—	
	1 1/4"	250 lb.	3 3/4"	3 1/8" x 4 1/8"	A	1UKW8	1UKX9	1UKX4	
	1 1/4"	300 lb.	3 3/16"	3 1/8" x 4 1/8"	C	455U12	—	—	
4"	1 3/8"	250 lb.	5"	4" x 5 1/8"	D	33J090	—	488T98	
	1 3/8"	250 lb.	5"	3 1/16" x 6 1/8"	D	—	33J092	—	
Roller Bearing									
4"	1 1/2"	450 lb.	5 1/8"	3 3/16" x 6 1/8"	C	—	1UKY1	—	

** With total lock. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*



Copper
No. 3A784



Polished Brass
No. 19YX22



Nylon with Side-Pedal Brake
No. 454N49



Plate D

GA GRAINGER APPROVED

Light-Duty Standard Plate Casters for Furniture

Swivel casters mount onto chairs, furniture, and other office equipment that will be moved manually at moderate speeds. The casters have a decorative frame finish that enhances the look of the furniture or equipment. Also known as institutional plate casters, these casters are suitable for transporting light loads along smooth, flat surfaces in offices and other areas where they won't encounter shock loading.

Tread Style	Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Frame Finish	Item No.
Soft Polyolefin Tread	2½"	⅝"	75 lb.	3"	1¾6" x 2"	D	Precision Ball	Copper	**3A784**
Soft Rubber Tread	2"	⅞"	75 lb.	2½"	1¾6" x 2"	D	Plain	High Nickel	**19YX29**
	2"	⅞"	75 lb.	2⅝"	1¾6" x 2"	D	Precision Ball	Polished Brass	**3A777**
	2½"	⅝"	75 lb.	3⅛"	1¾6" x 2"	D	Precision Ball	Copper	**2G007**
Firm Vinyl Tread	2"	2"	75 lb.	2½"	1¾6" x 2"	D	Precision Ball	Polished Brass	**19YX22**
	2"	2"	75 lb.	2⅝"	1¾6" x 2"	D	Precision Ball	Black Oxide	**19YX23**
Hard Nylon Tread	1 15⁄16"	1⅞"	75 lb.	2 9⁄16"	1½" x 1½"	D	Plain	—	**454N49** *
Hard Polyolefin Tread	2"	1¾"	75 lb.	2⅝"	1¾6" x 2"	D	Plain	Zinc Plated	**437V29**
Hard Polypropylene Tread	2"	2"	80 lb.	2⅝"	1½" x 2⅛"	D	Plain	Chrome Plated	**487G79**
	2"	2"	80 lb.	2⅝"	1½" x 2⅛"	D	Plain	Antique	**490W20**
	2"	2"	80 lb.	2⅝"	1½" x 2⅛"	D	Plain	Bright Brass	**490W21**
Hard Polyurethane Tread	1 15⁄16"	1⅞"	75 lb.	2 9⁄16"	1½" x 1½"	D	Plain	—	**454N50**

**** With side-pedal brake.***

GA GRAINGER APPROVED

Low-Profile and Easy-Turn Standard Plate Casters

Low-profile standard plate casters install onto equipment that needs to stay close to the ground to maximize its stability while rolling. Easy-turn standard plate casters each have two wheels mounted on one axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters. **Light-duty** and **medium-duty** casters have steel frames and are used on carts, business machines, and other equipment that will be moved manually at moderate speeds along smooth, flat surfaces in areas where the casters won't encounter shock loading.



Swivel
No. 16D120



Plate A



Plate B



Rigid Caster
No. 1VJD4



Plate D



Swivel w/Brake
No. 33H781



Plate G

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Low-Profile Light- & Medium-Duty									
Firm Polyurethane Tread									
1⅜"	1⅛"	220 lb.	2"	2⅜" x 2⅜"	B	Precision Ball	**22N062**	—	—
3"	1¾"	450 lb.	3 15⁄16"	3⅛" x 4⅛"	A	Precision Ball	**33H701**	**33H703**	—
Firm Thermoplastic Rubber Tread									
2"	1¼"	330 lb.	2⅞"	3 9⁄16" x 2 9⁄16"	B	Precision Ball	**490V43**	—	—
Hard Glass-Filled Nylon Tread									
3"	1¾"	800 lb.	4⅛"	3⅛" x 4⅛"	D	Precision Ball	**416P22**	**1VJD8**	—
Hard Nylon Tread									
2½"	1½"	550 lb.	3½"	3⅛" x 4"	A	Roller	**16D120**	—	—
3"	1⅝"	1000 lb.	3 15⁄16"	3⅛" x 4⅛"	D	Precision Ball	—	**487G75**	—
Hard Phenolic Tread									
3"	1¾"	500 lb.	3⅞"	4" x 4½"	B	Roller	—	**33H707**	**33H706**
	1⅞"	500 lb.	3⅞"	3⅛" x 4⅛"	A	Roller	—	**33H609**	**33H608**
Hard Polypropylene Tread									
3"	1⅝"	550 lb.	3 15⁄16"	3¼" x 3¼"	D	Precision Ball	**454Y15**	—	—
	1¾"	500 lb.	4 1⁄16"	3⅛" x 4⅛"	D	Roller	—	**1VJD4**	—
	1⅞"	500 lb.	4 1⁄16"	3⅛" x 4⅛"	D	Roller	**1VJD5**	—	—
Low-Profile Easy-Turn Light- & Medium-Duty									
Firm Polyurethane Tread									
2"	⅝"	350 lb.	2½"	3¾" x 3¾"	G	Plain	**4W778**	—	—
3"	1"	220 lb.	4"	2⅜" x 2⅜"	A	Plain	**490V31**	—	**490V32** *
Hard Nylon Tread									
2"	⅝"	350 lb.	2½"	3¾" x 3¾"	G	Plain	**4RF58**	—	—
2⅜"	1¼"	1540 lb.	3⅜"	3 11⁄32" x 3 15⁄16"	D	Precision Ball	**22N195**	—	—
3"	1¼"	1320 lb.	4 5⁄16"	3 11⁄32" x 3 15⁄16"	D	Precision Ball	**22N196**	—	—
Hard Rubber Tread									
2"	⅞"	200 lb.	2 15⁄16"	3⅛" x 4⅛"	A	Plain	**26Y506**	—	**33H781**
3"	⅞"	350 lb.	3⅞"	3⅛" x 4⅛"	A	Plain	**26Y510**	—	—
Extra-Hard Steel Tread									
2"	⅝"	590 lb.	2½"	3¾"	G	Plain	**400K26**	—	—

**** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.***

CAD DRAWINGS
Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**

CAD

For information on selecting casters, see page 1194.





Swivel Caster w/ Total Lock No. 416P20

GA GRAINGER APPROVED

Debris-Resistant Standard Plate Casters

Debris-resistant standard plate casters have thread guards that stop debris from getting into the casters' axles and damaging or contaminating them. This helps extend the casters' life when used in dusty or dirty environments. These casters mount onto carts, dollies, tables, storage racks, and other equipment that will be moved manually at moderate speeds. They are suitable for transporting loads along smooth, flat surfaces in areas where they won't encounter shock loading, such as laundry rooms, textile factories, offices, retail stores, schools, and government buildings. **Light-duty** casters are also known as institutional casters. **Medium-duty** casters can typically bear more weight and withstand more industrial conditions than light-duty casters.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Debris-Resistant Light-Duty									
Soft Phenolic Tread									
4"	2"	600 lb.	5⅝"	4" x 4½"	B	Roller	4HXN3	—	4HXN4 *
Soft Polyurethane Tread									
4"	2"	600 lb.	5⅝"	4" x 4½"	B	Roller	—	—	4HXH4 *
	2"	600 lb.	5⅝"	2¾" x 3¾"	C	Roller	—	—	4HXH8 *
Soft Rubber Tread									
3"	1¼"	195 lb.	3¾"	2¾" x 3¾"	D	Plain	5X728	—	—
3½"	1⅝"	350 lb.	4 11/16"	2½" x 3⅝"	C	Precision Ball	49C247	—	49C250 *
3 15/16"	1½"	400 lb.	5⅛"	2½" x 3⅝"	C	Precision Ball	—	—	491A21 *
5"	1¼"	330 lb.	5⅝"	2¾" x 3¾"	D	Plain	5X730	—	—
Soft Thermoplastic Rubber Tread									
3"	1¼"	150 lb.	3¾"	2¾" x 3¾"	D	Delrin	1G190	—	—
	1¼"	175 lb.	4 11/16"	2¾" x 3¾"	D	Delrin	1G191	—	—
4"	1¼"	260 lb.	5 3/16"	3⅛" x 4"	A	Precision Ball	437V21	—	416P20 *
	2"	300 lb.	5⅝"	4" x 4½"	B	Roller	—	—	4HXG1 *
5"	1¼"	195 lb.	5⅝"	2¾" x 3¾"	D	Delrin	1G192	1G195	—
	1¼"	250 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	4DE68	4DE69	—
	1¼"	280 lb.	6¼"	2½" x 3¾"	C	Precision Ball	416P30	2G063	—
	1¼"	305 lb.	6 3/16"	3⅛" x 4"	A	Precision Ball	400K71	437V22	416P21 *
	1½"	400 lb.	6⅛"	2⅜" x 3⅝"	C	Precision Ball	426A84	406P65	400K28 *
6"	1¼"	150 lb.	7 21/64"	2½" x 3⅝"	C	Precision Ball	406P71	—	406P72
	1¼"	325 lb.	7 5/16"	2½" x 3¾"	C	Precision Ball	—	406P66	406P67
	1¼"	325 lb.	7⅜"	2½" x 3¾"	C	Precision Ball	400K30	—	—
Firm Polyurethane Tread									
3"	1¼"	175 lb.	3¾"	2¾" x 3¾"	D	Delrin	1G196	1G199	—
	1¼"	250 lb.	4¼"	2½" x 3⅝"	C	Precision Ball	—	2G047	2G029 *
	1¼"	275 lb.	4¼"	2½" x 3⅝"	C	Precision Ball	435X77	—	435X79 *
3½"	1¼"	275 lb.	4 11/16"	2½" x 3⅝"	C	Precision Ball	435X78	435X82	—
4"	1¼"	195 lb.	4 11/16"	2¾" x 3¾"	D	Delrin	1G197	1G200	—
	1¼"	300 lb.	5 3/16"	2½" x 3⅝"	C	Precision Ball	2G043	—	2G031 *
5"	1¼"	220 lb.	5⅝"	2¾" x 3¾"	D	Delrin	1G198	—	—
	1¼"	315 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	2G045	2G051	2G033 *
	1¼"	315 lb.	6 13/64"	2½" x 3⅝"	C	Precision Ball	29XW86	—	—
6"	1¼"	300 lb.	7¼"	2½" x 3⅝"	C	Precision Ball	—	3ENW9	—
	1¼"	300 lb.	7 21/64"	2½" x 3⅝"	C	Precision Ball	3ENX9	—	3ENY1
Firm Rubber Tread									
4"	1¼"	250 lb.	5⅛"	2½" x 3⅝"	C	Precision Ball	454Y10	4DE66	—
6"	1¼"	300 lb.	7¼"	2½" x 3⅝"	C	Precision Ball	3ENX7	3ENW8	440A77
Firm Thermoplastic Rubber Tread									
5"	1¼"	250 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	2LU81	2LU79	—
	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	40N479	40N481	40N480
Hard Nylon Tread									
3 15/16"	1⅜"	330 lb.	4⅞"	3⅜" x 3 15/16"	D	Precision Ball	22N047	—	22N048 *
	1⅜"	400 lb.	4 15/16"	2½" x 3⅝"	D	Precision Ball	21HK19	—	—
4 15/16"	1⅜"	330 lb.	5⅞"	3⅜" x 3 15/16"	D	Precision Ball	22N050	—	22N052 *
Hard Phenolic Tread									
4"	2"	600 lb.	5⅝"	4" x 4½"	B	Roller	—	4HXN6	—
6"	2"	700 lb.	7½"	4" x 4½"	B	Roller	—	—	4HXP3 *
Hard Polyolefin Tread									
3"	1¼"	175 lb.	3¾"	2¾" x 3¾"	D	Delrin	—	—	5UX73
4"	2"	600 lb.	5⅝"	4" x 4½"	B	Roller	4HXK9	4HXL3	435Y01 *
Hard Rubber Tread									
3"	1¼"	210 lb.	3¾"	2¾" x 3¾"	C	Delrin	2G301	2G303	—
Debris-Resistant Medium-Duty									
Firm Polyurethane Tread									
5"	2"	1000 lb.	6½"	4" x 4½"	B	Roller	—	1ULP4	—
8"	2"	1400 lb.	9½"	4" x 4½"	B	Roller	1ULP5	1ULP6	—
Hard Phenolic Tread									
6"	2"	1200 lb.	7½"	4" x 4½"	B	Roller	1ULP9	1ULR1	—

** With total lock.*



GA GRAINGER APPROVED

Heat-Resistant Standard Plate Casters

Heat-resistant standard plate casters have hard nylon wheels and can withstand continuous exposure to dry heat up to 480°F. They are used in areas such as bakeries, laboratories, light manufacturing facilities, pharmaceutical plants, and electronics parts testing sites. The casters have zinc-plated steel frames and mount onto racks and other equipment that will be moved manually at moderate speeds. These swivel casters can rotate up to 360°, allowing equipment to change directions while rolling.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Item No.
3⅛"	1¼"	330 lb.	4⅞"	3⅜" x 3 15/16"	C	Plain Bearings	22N137
7⅞"	2"	770 lb.	9¼"	4 5/16" x 5½"	C	Plain Bearings	22N149



GA GRAINGER APPROVED

Corrosion-Resistant Standard Plate Casters

Corrosion-resistant standard plate casters have stainless-steel frames that resist rusting and withstand exposure to corrosives like water or cleaning chemicals used in food-service facilities, pharmaceutical plants, laboratories, cleanrooms, hospital waste areas, marine environments, and similar settings. The casters mount onto carts, dollies, tables, racks, and other equipment that will be moved manually at moderate speeds. They are suitable for transporting loads along smooth, flat surfaces in areas where they won't encounter shock loading. **Light-duty** casters are also called institutional casters. **Medium-duty** casters can typically bear more weight and withstand more industrial conditions than light-duty casters.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Corrosion-Resistant Light-Duty									
Soft Rubber Tread									
2"	¾"	85 lb.	2 13/16"	2⅜" x 2⅜"	B	Plain	22N122	22N126	22N123 *
3"	1"	130 lb.	3⅞"	2⅜" x 2⅜"	B	Plain	22N124	22N127	22N125 *
3⅛"	1¼"	305 lb.	4"	3⅜" x 3 15/16"	D	Roller	44YU31	—	44YU43 *
3⅞"	1½"	330 lb.	4⅞"	3⅜" x 3 15/16"	D	Roller	44YU46	44YU58	44YU49 *
Soft Thermoplastic Rubber Tread									
2"	¾"	110 lb.	2 13/16"	2⅜" x 2⅜"	B	Plain	22N116	22N120	22N117 *
3⅞"	1¼"	240 lb.	5⅜"	2⅝" x 3 9/16"	B	Plain	44YU77	—	44YU40 *
Hard Polyurethane Tread									
4"	1¼"	275 lb.	5⅛"	2½" x 3⅝"	C	Delrin	23J808	23J809	—
5"	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	Delrin	23J810	23J811	—
Corrosion- & Heat-Resistant Light-Duty									
Hard Nylon Tread									
3⅞"	1¼"	330 lb.	4⅞"	3 15/16" x 3 15/16"	D	Plain	22N140	—	22N142 *
Hard Phenolic Tread									
4"	1¼"	220 lb.	5 3/16"	2½" x 3⅝"	C	Plain	454Y20	—	—
Corrosion- & Debris-Resistant Light-Duty									
Firm Rubber Tread									
5"	1¼"	325 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	487H28	—	455T51
6"	1¼"	325 lb.	7¼"	2½" x 3⅝"	C	Precision Ball	455T53	—	455T54
Firm Thermoplastic Rubber Tread									
4"	1¼"	300 lb.	5⅛"	2½" x 3⅝"	C	Precision Ball	33H722	33H726	40N489
5"	1¼"	325 lb.	6 3/16"	2½" x 3⅝"	C	Precision Ball	33H723	33H727	—
Corrosion-Resistant Medium-Duty									
Firm Thermoplastic Rubber Tread									
4"	2"	300 lb.	5⅝"	4" x 4½"	B	Delrin	2LY18	2LY16	—
6"	2"	500 lb.	7½"	4" x 4½"	B	Delrin	2LY26	2LY24	—
Hard Glass-Filled Nylon Tread									
4"	2"	800 lb.	5⅝"	4" x 4½"	B	Roller	5VP31	5VP30	—
5"	2"	900 lb.	6½"	4" x 4½"	B	Roller	5VP33	5VP32	—
6"	2"	900 lb.	7½"	4" x 4½"	B	Roller	5VP35	5VP34	—
Hard Nylon Tread									
4"	2"	880 lb.	5⅝"	4" x 4½"	B	Precision Ball	454M92	454M93	454N11 *
4⅞"	2"	1650 lb.	6 11/16"	4 5/16" x 5½"	C	Precision Ball	—	—	22N247 *
Hard Polyurethane Tread									
4"	2"	600 lb.	5⅝"	4" x 4½"	B	Precision Ball	454M90	454M91	454N10 *
5"	2"	750 lb.	6½"	4" x 4½"	B	Delrin	3G103	3G110	—
	2"	750 lb.	6½"	4" x 4½"	B	Delrin	3G111	23J823	—
	2"	880 lb.	7½"	4" x 4½"	B	Precision Ball	454M94	454M95	—
6"	2"	900 lb.	7½"	4" x 4½"	B	Precision Ball	—	—	454M88 *
	2"	900 lb.	7½"	4" x 4½"	B	Delrin	3G105	3G104	—

** With total lock.*

For information on selecting casters, see page 1194.



Rigid Caster
No. 1VJA1



Swivel Caster
No. 1NWJ6



Swivel Caster w/
Four-Position Swivel Lock
No. 490W06



Plate A



Plate B



Plate C



Plate D

colson ★ GA GRAINGER APPROVED ALBION® GREENLEE

Medium-Duty Standard Plate Casters

Medium-duty standard plate casters mount onto carts, dollies, platform trucks, tool boxes, storage racks, and other industrial equipment that will be moved manually at moderate speeds. They have zinc-plated steel frames and are suitable for transporting moderately heavy to heavy loads along smooth, flat surfaces in industrial settings where the casters won't encounter shock loading, such as shops, docks, warehouses, waste-disposal areas, and manufacturing plants.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Monoprene Tread									
Radial Ball Bearing									
8"	2½"	350 lb.	10⅛"	4" x 4½"	B	Colson	**20PL93**	—	—
10"	4⅛"	440 lb.	13"	4" x 4½"	B	Colson	**25VT58**	—	—
Soft Polyurethane Tread									
Precision Ball Bearing									
3⅞"	1⅝"	660 lb.	5⅛"	3⅜" x 3 15⁄16"	D	GA	**22N164**	**489C57**	**489C56** *
	1⅝"	770 lb.	6⅛"	3⅜" x 3 15⁄16"	D	GA	**22N167**	—	**22N169** *
3 15⁄16"	1⅝"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	—	—	**21HJ80** *
4⅞"	1⅝"	770 lb.	6⅛"	3⅜" x 3 15⁄16"	D	GA	—	**22N168**	—
Soft Rubber Tread									
Precision Ball Bearing									
3 15⁄16"	1½"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	**21HJ58**	—	—
4"	1½"	400 lb.	5⅛"	3¼" x 4"	D	GA	—	**21HJ59**	—
	1⅝"	440 lb.	5⅛"	4" x 4½"	B	GA	**454Y05**	**487G20**	—
6"	2"	600 lb.	7¼"	4" x 4½"	B	GA	—	**1NWG9**	—
8"	2"	600 lb.	9½"	4½" x 6¼"	A	GA	—	—	**454N05** ‡
	2"	660 lb.	9¼"	4" x 4½"	B	GA	**454Y07**	**454Y08**	—
Roller Bearing									
4"	2"	350 lb.	5⅝"	4" x 4½"	B	GA	**1NWJ2**	—	—
5"	2"	400 lb.	6½"	4" x 4½"	B	GA	**1NWJ4**	**1NWJ3**	—
6"	2"	410 lb.	7½"	4" x 4½"	B	GA	**1NWJ6**	**1NWJ5**	—
	2"	500 lb.	7¼"	4" x 4½"	B	Albion	**30XK14**	—	—
	2"	550 lb.	7½"	4½" x 6¼"	A	GA	**454N01**	—	—
	2"	600 lb.	7¼"	4" x 4½"	B	Albion	**32LG48**	**32LG47**	—
8"	2"	600 lb.	9½"	5" x 5½"	D	GA	—	**489A29**	—
	2"	600 lb.	9½"	4" x 4½"	B	GA	**1NWJ8**	**426A76**	—
	2"	675 lb.	7¼"	4" x 4½"	B	Albion	**32LG49**	—	—
Soft Thermoplastic Rubber Tread									
Precision Ball Bearing									
8"	2"	675 lb.	9½"	4" x 4½"	B	GA	**1NWH3**	**1NWH2**	—
Roller Bearing									
4"	2"	350 lb.	5⅝"	4" x 4½"	B	GA	**1ULH9**	—	—
5"	2"	400 lb.	6½"	4" x 4½"	B	GA	**1ULJ2**	**1ULJ4**	**1ULJ3**
6"	2"	450 lb.	7½"	4" x 4½"	B	GA	**435X90**	**1NVD8**	**435X91**
8"	2"	600 lb.	9½"	4" x 4½"	B	GA	**400K49**	**435X92**	—
Firm Polyurethane Tread									
Plain Bearing									
5"	2"	1050 lb.	6½"	4" x 4½"	B	GA	**29XU51**	—	—
Precision Ball Bearing									
3⅞"	1¼"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	—	**21HJ68**	—
	1⅝"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	—	**21HJ84**	—
3 15⁄16"	1¼"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	**21HJ67**	—	**21HJ71** *
	1⅝"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	**21HJ83**	—	**21HJ85** *
4"	2"	700 lb.	5⅝"	4½" x 6¼"	A	GA	—	—	**455U01** ‡
4⅞"	1¼"	400 lb.	6⅛"	2½" x 3⅜"	C	GA	—	**21HJ73**	—
4 15⁄16"	1¼"	400 lb.	5⅞"	2½" x 3⅜"	D	GA	**21HJ72**	—	**21HJ74** *
	1⅝"	400 lb.	5⅞"	2½" x 3⅜"	D	GA	**21HJ89**	—	**21HJ90** *
5"	1⅝"	400 lb.	6 1⁄10"	2½" x 3⅜"	C	GA	—	**19YP94**	—
6"	2"	1250 lb.	7½"	4" x 4½"	B	GA	—	**5VG64**	—
8"	2"	1250 lb.	9½"	4" x 4½"	B	GA	**454N28**	—	—
Roller Bearing									
4"	2"	600 lb.	5⅜"	4" x 4½"	B	GA	**1NUW7**	**1NUW9**	**400K42**
	2"	700 lb.	5⅜"	4" x 4½"	B	GA	**1NWK1**	**1NWJ9**	**487H29** †
	2"	750 lb.	5⅜"	4" x 4½"	B	GA	—	**1NUY3**	**1NUY2**
	2"	750 lb.	7½"	4" x 4½"	B	GA	**1NUY1**	—	—
5"	2"	700 lb.	6½"	4½" x 6¼"	A	GA	—	**455T74**	—
	2"	750 lb.	6½"	4" x 4½"	B	GA	**400K50**	**400K52**	**400K43**
	2"	1000 lb.	6½"	4" x 4½"	B	GA	**1ULP1**	—	—
	2"	1050 lb.	6½"	4½" x 6¼"	A	GA	**400K27**	—	—
	2"	1050 lb.	6½"	5" x 5½"	D	GA	**1NVL7**	**1NVL9**	**1NVL8**
	2"	1100 lb.	6½"	5" x 5½"	D	GA	**489A32**	**489A34**	**489A33** *
	2"	1500 lb.	6½"	4½" x 6¼"	A	GA	—	**1NVR8**	—
6"	2"	800 lb.	7½"	4" x 4½"	B	GA	**400K53**	**400K55**	**400K54**
	2"	900 lb.	7½"	4" x 4½"	B	GA	**1NUX4**	—	**1NUX5**
	2"	900 lb.	7½"	4" x 4½"	B	Greenlee	—	**35MM28**	—
	2"	1200 lb.	7½"	4" x 4½"	B	GA	**1ULP2**	**1ULP3**	**1NVF4** †
	2"	1200 lb.	7½"	5" x 5½"	D	GA	**1NVN1**	**1NVN3**	**1NVN2**
	2"	1250 lb.	7½"	4" x 4½"	B	GA	**454Y22**	—	**49H599**
	2"	1250 lb.	7½"	5" x 5½"	D	GA	—	**489A37**	**489A36** *
	2"	1750 lb.	6½"	4½" x 6¼"	A	GA	**1NVR9**	—	—
	2"	1750 lb.	7½"	4½" x 6¼"	A	GA	—	**1NVT1**	—
	2½"	1750 lb.	7½"	4½" x 6¼"	A	GA	**1NVU7**	**1NVU8**	—
8"	2"	900 lb.	9½"	4" x 4½"	B	GA	**400K56**	**1ULK8**	—
	2"	900 lb.	9½"	4" x 4½"	B	Greenlee	—	—	**35MM24**
	2"	1200 lb.	9½"	4½" x 6¼"	A	GA	**426A74**	**426A75**	—
	2"	1200 lb.	9½"	5" x 5½"	D	GA	**1NVN4**	**1NVN6**	**1NVN5**
	2"	1250 lb.	9½"	5" x 5½"	D	GA	—	**489A40**	**490W05**
10"	2½"	1750 lb.	11½"	4½" x 6¼"	A	GA	**1NVX2**	**1NVX3**	—
Firm Rubber Tread									
Precision Ball Bearing									
4"	2"	400 lb.	5⅝"	4" x 4½"	B	GA	**29XU58**	—	—
6"	2"	500 lb.	7½"	4" x 4½"	B	GA	—	—	**29XU45**
8"	2"	600 lb.	9½"	4" x 4½"	B	GA	—	**29XV52**	—
Roller Bearing									
8"	2"	500 lb.	9½"	5" x 5½"	D	GA	—	—	**1NVH2**
Firm Thermoplastic Rubber Tread									
Precision Ball Bearing									
4"	2"	300 lb.	5⅝"	4" x 4½"	B	GA	—	**4DE89**	—
6"	2"	500 lb.	7¼"	4" x 4½"	B	GA	**1NWH1**	—	—
	2"	500 lb.	7½"	4" x 4½"	B	GA	—	**490V75**	—
8"	2"	600 lb.	9½"	4" x 4½"	B	GA	**2LY34**	**4DU12**	—
Roller Bearing									
4"	2"	300 lb.	5⅝"	4" x 4½"	B	GA	**1NWR1**	**5VP82**	—
5"	2"	350 lb.	6½"	4" x 4½"	B	GA	**5VP85**	**1VJC5**	**490V99** *
6"	2"	500 lb.	7¼"	4" x 4½"	B	GA	**1NWR5**	**5VP86**	**49H614**
	2"	500 lb.	7½"	4" x 4½"	B	GA	—	**487H27**	**490W01** †
8"	2"	600 lb.	9½"	4" x 4½"	B	GA	**5VP89**	**5VP88**	**483N54** †
Hard Glass Filled Nylon Tread									
Roller Bearing									
4"	2"	800 lb.	5⅜"	4" x 4½"	B	GA	**1NWN3**	**1NWN2**	—
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	**1NWN5**	—	—
6"	2"	1200 lb.	7¼"	4" x 4½"	B	GA	**1NWN7**	**1NWN6**	—
8"	2"	1250 lb.	9½"	4" x 4½"	B	GA	**1NWN9**	—	—
Hard Nylon Tread									
Plain Bearing									
3½"	1¼"	330 lb.	4 1⁄16"	2½" x 3⅜"	C	GA	**21HJ94**	**21HJ95**	**21HJ96** *
3⅞"	1½"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	—	**21HK02**	—
3 15⁄16"	1½"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	**21HK01**	—	**21HK03** *
4"	1½"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	**454Y18**	—	—
4 15⁄16"	1⅝"	400 lb.	5⅞"	2½" x 3⅜"	D	GA	**21HK10**	—	**21HK12** *
7⅞"	2"	770 lb.	9¼"	3⅜" x 3 15⁄16"	C	GA	—	**22N150**	—
Precision Ball Bearing									
3½"	1¼"	330 lb.	4 1⁄16"	2½" x 3⅜"	C	GA	**21HJ97**	—	**21HJ99** *
3⅞"	1½"	400 lb.	5⅛"	2½" x 3⅜"	C	GA	—	—	**21HK09** *
	1⅝"	770 lb.	3⅜"	3⅜" x 3 15⁄16"	D	GA	**22N185**	—	—
3 15⁄16"	1⅜"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	—	—	**21HK21** *
	1½"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	**21HK07**	—	—
	1⅜"	400 lb.	4 15⁄16"	3⅛" x 3 15⁄16"	D	GA	**49C254**	—	—
4 15⁄16"	1⅜"	400 lb.	4 15⁄16"	2½" x 3⅜"	D	GA	—	—	**21HK23** *
	1⅝"	400 lb.	5⅞"	2½" x 3⅜"	D	GA	**21HK16**	—	**21HK18** *
Roller Bearing									
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	—	**1NWN4**	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.*

CONTINUED

CONTINUED

colson ★GA GRAINGER APPROVED ALBION® GREENLEE.

Medium-Duty Standard Plate Casters

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Hard Phenolic Tread									
Ball Bearing									
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	55KC24	55KC20	55KC13
	2"	1000 lb.	6½"	4½" x 6¼"	A	GA	55KC10	55KC11	—
6"	2"	1200 lb.	7½"	5" x 5½"	D	GA	55KC04	55KC06	55KC05 *
	2"	1200 lb.	7½"	4" x 4½"	B	GA	55KC14	55KC21	55KC15
8"	2"	1250 lb.	9½"	5" x 5½"	D	GA	55KC07	55KC09	55KC08 *
	2"	1250 lb.	9½"	4½" x 6¼"	A	GA	55KC12	—	—
	2"	1250 lb.	9½"	4" x 4½"	B	GA	55KC22	55KC23	—
	3"	2500 lb.	10⅛"	4½" x 6¼"	A	GA	55KC27	55KC28	—
10"	3"	2900 lb.	11½"	4½" x 6¼"	A	GA	55KC29	55KC30	—
Roller Bearing									
3¼"	2"	700 lb.	5¼"	4" x 4½"	B	GA	—	1NUZ5	—
4"	1½"	450 lb.	5⅛"	3⅜" x 6⅛"	C	GA	—	1UKW5	—
	2"	800 lb.	5⅜"	4" x 4½"	B	GA	1NUZ6	435X70	1NUZ7
	2"	800 lb.	5⅜"	4½" x 6¼"	A	GA	—	455T92	455U02 ‡
5"	2"	1000 lb.	6½"	5" x 5½"	D	GA	1NVK7	1NVK9	435X71 *
	2"	1000 lb.	6½"	4" x 4½"	B	GA	1ULL8	1ULN1	1ULL9
	2"	1400 lb.	6½"	4½" x 6¼"	A	GA	1NVT4	1NVT5	—
6"	2"	1200 lb.	7½"	5" x 5½"	D	GA	1NVL1	1NVL3	1NVL2 *
	2"	1200 lb.	7½"	4½" x 6¼"	A	GA	435X73	1NVT7	—
	2"	1200 lb.	7½"	4" x 4½"	B	GA	1ULN2	1ULN4	1ULN3
8"	2"	1200 lb.	9½"	5" x 5½"	D	GA	1NVL4	1NVL6	1NVL5 *
	2"	1400 lb.	9½"	4" x 4½"	B	GA	1ULN5	1ULN6	—
	2"	1750 lb.	9½"	4½" x 6¼"	A	GA	1NVT8	—	—
	2½"	1750 lb.	9½"	4½" x 6¼"	A	GA	1NVX6	1NVX7	—
10"	2½"	1750 lb.	11½"	4½" x 6¼"	A	GA	1NVX8	1NVX9	—
Hard Polyolefin Tread									
Roller Bearing									
5"	2"	750 lb.	6½"	4" x 4½"	B	GA	—	435X93	—
	2"	800 lb.	6½"	4" x 4½"	B	GA	1ULK9	—	400K57
6"	2"	900 lb.	7½"	4" x 4½"	B	GA	1ULL3	1ULL5	426A80
	2"	900 lb.	7½"	5" x 5½"	D	GA	—	1NVP3	1NVP2
8"	2"	900 lb.	9½"	5" x 5½"	D	GA	—	435X72	—
	2"	900 lb.	9½"	4" x 4½"	B	GA	1ULL6	1ULL7	—
	2"	1000 lb.	9½"	5" x 5½"	D	GA	1NVP4	—	1NVP5
Hard Polypropylene Tread									
Precision Ball Bearing									
6"	1¼"	300 lb.	7¼"	3¾" x 4⅜"	B	GA	—	—	33H687
Roller Bearing									
4"	2"	450 lb.	5⅝"	4" x 4½"	B	GA	25VT36	25VT37	—
5"	2"	550 lb.	6½"	4" x 4½"	B	GA	—	25VT39	—
	2"	650 lb.	6½"	4" x 4½"	B	GA	25VT38	—	490V88 †
6"	2"	650 lb.	7¼"	4" x 4½"	B	GA	25VT40	25VT41	—
8"	2"	850 lb.	9½"	4" x 4½"	B	GA	25VT42	25VT43	—
Hard Polyurethane Tread									
Delrin Bearing									
4"	2"	600 lb.	5⅜"	4" x 4½"	B	GA	455U50	455U51	—
Precision Ball Bearing									
4"	2"	1000 lb.	5⅜"	4" x 4½"	B	GA	1NWP2	1NWP1	—
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	1NWP4	1NWP3	—
6"	2"	1000 lb.	7¼"	4" x 4½"	B	GA	1NWP6	1NWP5	—
8"	2"	1000 lb.	9½"	4" x 4½"	B	GA	489C19	489C18	—
	2"	1200 lb.	9½"	4" x 4½"	B	GA	—	1NWP7	—
Roller Bearing									
4"	2"	600 lb.	5⅜"	4" x 4½"	B	GA	406U27	1VJB4	—
5"	2"	750 lb.	6½"	4" x 4½"	B	GA	—	1VJB6	490W06 †
6"	2"	900 lb.	7½"	4" x 4½"	B	GA	—	1VJB8	—
	2"	1200 lb.	7¼"	4" x 4½"	B	Albion	32LG44	—	—
8"	2"	1000 lb.	10⅛"	4" x 4½"	B	GA	—	54JE10	—
	2"	1000 lb.	9½"	4" x 4½"	B	GA	29XU50	—	—
Hard Rubber Tread									
Precision Ball Bearing									
10"	2"	350 lb.	12½"	4" x 4½"	B	GA	—	25VT59	—
Extra Hard Ductile Iron Tread									
Roller Bearing									
5"	2"	1250 lb.	6½"	4" x 4½"	B	GA	—	1VJA1	—
6"	2"	1250 lb.	7½"	4" x 4½"	B	GA	—	1VJA3	—
8"	2"	1250 lb.	10⅛"	4" x 4½"	B	GA	—	1VJA5	—
Extra Hard Iron Tread									
Precision Ball Bearing									
8"	2"	1250 lb.	9½"	4½" x 6¼"	A	GA	—	—	455U04 ‡
Roller Bearing									
3¼"	2"	700 lb.	4¼"	4" x 4½"	B	GA	1NWL2	1NWL1	—
4"	1½"	450 lb.	5⅛"	4" x 5"	D	GA	1UKW9	—	1UKX5
	2"	700 lb.	5⅜"	4" x 4½"	B	GA	1NWH9	1NWH8	—
	2"	1000 lb.	5⅜"	4" x 4½"	B	GA	33H771	33H770	33H671
5"	2"	1000 lb.	6½"	5" x 5½"	D	GA	—	488U02	488T99
	2"	1000 lb.	6½"	4" x 4½"	B	GA	1NWL4	1NWL3	33H672
	2"	1000 lb.	6½"	4½" x 6¼"	A	GA	—	490V67	—
	2"	1200 lb.	6½"	5" x 5½"	D	GA	1NVH4	1NVH6	1NVP8
6"	2"	1200 lb.	7½"	5" x 5½"	D	GA	1NVR1	1NVR3	1NVR2
	2"	1200 lb.	7¼"	4" x 4½"	B	GA	1NWL6	1NWL5	—
	2"	1750 lb.	7½"	4½" x 6¼"	A	GA	1NVU2	1NVU3	—
8"	2"	1200 lb.	9½"	5" x 5½"	D	GA	1NVR4	1NVR6	1NVR5
	2"	1250 lb.	9½"	4½" x 6¼"	A	GA	—	455U06	—
	2"	1250 lb.	9½"	4" x 4½"	B	GA	1NWL8	1NWL7	—
	2"	1250 lb.	9½"	5" x 5½"	D	GA	—	483N45	—
	2"	1750 lb.	9½"	4½" x 6¼"	A	GA	1NVU4	1NVU5	—
Extra Hard Steel Tread									
4"	2"	1000 lb.	5⅜"	4" x 4½"	B	GA	—	1NVC2	1NVC1
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	1NVC3	1NVC5	1NVC4
6"	2"	1200 lb.	7½"	4" x 4½"	B	GA	1NVC6	1NVC8	1NVC7
8"	2"	1200 lb.	9½"	4" x 4½"	B	GA	1NVC9	1NVD2	1NVD1

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.*

★GA GRAINGER APPROVED

Heavy-Duty Standard Plate Casters

Heavy-duty standard plate casters have zinc-plated welded steel frames and a stronger kingpin than light-duty or medium-duty standard plate casters. They withstand heavy loads and frequent use and are mounted onto racks, utility trucks, production jigs, fixtures, and other heavy equipment used in industrial settings where the casters will be rolling along irregular or rough surfaces and may encounter shock loading.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Rubber Tread								
Precision Ball Bearing								
4⅞"	2"	705 lb.	6¹¹⁄₁₆"	4⅝" x 5½"	C	22N216	22N217	22N218 *
9¹³⁄₁₆"	2⅜"	1870 lb.	11⅝"	4⅝" x 5½"	C	489A74	489A75	489A77 *
Firm Polyurethane Tread								
Precision Ball Bearing								
3⅞"	1⅝"	770 lb.	5½"	4" x 4½"	B	489C64	—	—
4⅞"	1⅝"	770 lb.	6½"	4" x 4½"	B	489C66	—	—
5⅞"	2"	1650 lb.	7⅞"	4⅝" x 5½"	C	489A69	—	—
7⅞"	2"	2200 lb.	9⅝"	4⅝" x 5½"	C	489A70	489A71	489A76 *
	3⅛"	2425 lb.	9⅝"	4⅝" x 5½"	C	489D12	489D15	489D14 *
8"	2"	2000 lb.	9¼"	4½" x 6¼"	A	—	—	490W24 †
Hard Nylon Tread								
Precision Ball Bearing								
3"	1¼"	660 lb.	4⅝"	3⅜" x 3¹⁵⁄₁₆"	D	22N191	22N192	22N193 *
3⅛"	1⅝"	1540 lb.	4¹¹⁄₁₆"	3⅜" x 3¹⁵⁄₁₆"	D	22N063	22N064	22N065 *
3⅞"	1⅝"	1540 lb.	5½"	3⅜" x 3¹⁵⁄₁₆"	D	22N066	22N067	22N068 *

** With total lock. † With four-position swivel lock.*



Rigid Caster
No. 455T93



Swivel Caster
No. 22N216



Swivel Caster w/
Four-Position Swivel Lock
No. 490W24



Plate A



Plate B



Plate C



Plate D

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Extra-Hard Iron Tread								
Precision Ball Bearing								
3⅞"	1⅝"	880 lb.	5½"	3⅜" x 3¹⁵⁄₁₆"	D	489D07	—	—
7⅞"	2"	2425 lb.	9⅝"	4⅝" x 5½"	C	489D13	489D16	—
Roller Bearing								
8"	2"	1250 lb.	9⅝"	4½" x 6¼"	A	455T95	455T93	455T96 *



Rigid Caster
No. 1VHT9



Swivel Caster
No. 5VH19



Swivel Caster w/ Four-Position Swivel Lock and Brake
No. 5VH92



Plate A



Plate B



Plate C



Plate D

HAMILTON. GA GRAINGER APPROVED

Extra-Heavy-Duty Standard Plate Casters

Extra-heavy-duty standard plate casters have forged steel frames and forged or welded steel kingpins and can bear heavy loads. They tolerate more frequent use and withstand more shock and impact from rolling over rough or uneven ground than light-duty, medium-duty, and heavy-duty standard plate casters. The casters are installed onto the bottom of dumpsters, trailer frames, die carts, and other heavy equipment used in industrial areas such as manufacturing plants, construction sites, and assembly plants.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Polyurethane Tread									
Precision Ball Bearing									
4"	2"	600 lb.	5⅝"	4" x 5"	B	Hamilton	49H502	—	—
	2"	700 lb.	5⅝"	4" x 5"	B	Hamilton	49H521	—	—
	2"	700 lb.	5⅝"	4½" x 6½"	A	Hamilton	49H479	—	—
6"	2"	940 lb.	7½"	4" x 5"	B	Hamilton	4DB64	4DB68	4DB66 ‡
	2"	960 lb.	7¾"	4½" x 6½"	A	Hamilton	6AZJ6	—	—
	2"	1920 lb.	7¾"	6¼" x 6½"	A	Hamilton	—	1VHR8	—
	3"	2450 lb.	7¼"	5" x 7"	A	Hamilton	—	45AN43	—
8"	2"	1200 lb.	9½"	4" x 5"	B	Hamilton	4DB65	4DB69	4DB67 ‡
	2"	1200 lb.	9¾"	4½" x 6½"	A	Hamilton	6AZJ9	6AZN0	6AZL1 ‡
	2"	2000 lb.	9½"	4" x 5"	B	Hamilton	49H523	—	—
	2"	2000 lb.	9¾"	4½" x 6½"	A	Hamilton	1VHT2	—	45RH59 ‡
Soft Rubber Tread									
Precision Ball Bearing									
6"	2½"	540 lb.	7½"	4½" x 6½"	A	Hamilton	1VHT8	1VHT9	1VHV1 ‡
8"	2½"	670 lb.	10¼"	4½" x 6½"	A	Hamilton	1VHU3	1VHU4	1VHV3 ‡
10"	2½"	790 lb.	11½"	4½" x 6½"	A	Hamilton	1VHU7	1VHU8	1VHV5 ‡
Roller Bearing									
8"	2"	1000 lb.	9¾"	4½" x 6½"	A	Hamilton	1VHT4	1VHT5	45RH62 ‡
10"	2½"	790 lb.	11½"	4½" x 6½"	A	Hamilton	5VH22	—	—
Firm Polyurethane Tread									
Precision Ball Bearing									
7⅞"	3⅛"	3525 lb.	10"	5½" x 6⅞"	D	GA	489D21	—	489D22 *
11¾₁₆"	2⅜"	3950 lb.	14"	5½" x 6⅞"	D	GA	489D18	489D20	489D19 *
4"	2"	750 lb.	5⅝"	4" x 5"	B	Hamilton	5VH87	5VG54	45RH73 ‡
	2"	750 lb.	5⅝"	4½" x 6½"	A	Hamilton	6AZJ1	—	6AZK0 ‡
	2"	900 lb.	5⅝"	4½" x 6½"	A	Hamilton	49H470	49H486	—
	2"	1500 lb.	5⅝"	4½" x 6½"	A	Hamilton	1VHP8	—	45RH56 ‡
6"	2"	1200 lb.	7½"	4" x 5"	B	Hamilton	5VJ08	—	—
	2"	1200 lb.	7¾"	4½" x 6½"	A	Hamilton	6AZJ3	6AZL4	6AZK3 ‡
	2"	2400 lb.	7¾"	4½" x 6½"	A	Hamilton	1VHR5	—	—
	2"	2400 lb.	7¾"	6¼" x 6½"	A	Hamilton	1VHR5	—	—
	2½"	1600 lb.	7½"	4½" x 6½"	A	Hamilton	1VHT6	1VHT7	1VHU9 ‡
	3"	900 lb.	8"	5¼" x 7¼"	A	Hamilton	—	—	45RH75 ‡
	3"	2200 lb.	7½"	4½" x 6½"	A	Hamilton	55HA50	55HA46	55HA22 ‡
	3"	2200 lb.	8"	5¼" x 7¼"	A	Hamilton	5VH01	5VF93	—
8"	2"	1400 lb.	9½"	4" x 5"	B	Hamilton	49H505	—	49H514 ‡
	2"	1500 lb.	9½"	4" x 5"	B	Hamilton	5VJ20	5VG70	45RH76 ‡
	2"	1500 lb.	9¾"	4½" x 6½"	A	Hamilton	6AZJ7	6AZL8	6AZK8 ‡
	2½"	2000 lb.	10¼"	4½" x 6½"	A	Hamilton	1VHU1	1VHU2	1VHV2 ‡
	3"	2500 lb.	10½"	5¼" x 7¼"	A	Hamilton	5VH10	5VF98	5VH11 ‡
10"	2½"	2200 lb.	11½"	4½" x 6½"	A	Hamilton	1VHU5	1VHU6	1VHV4 ‡
	3"	3000 lb.	12½"	5¼" x 7¼"	A	Hamilton	5VG92	5VF89	45RH77 ‡
	3"	3600 lb.	12½"	5¼" x 7¼"	A	Hamilton	49H548	—	—
Roller Bearing									
8"	3"	990 lb.	11"	8½" x 8½"	D	Hamilton	1VHK5	1VHK6	—
	3"	7000 lb.	11"	8½" x 8½"	D	Hamilton	—	—	1VHJ7 †
10"	3"	2200 lb.	11½"	4½" x 6½"	A	Hamilton	5VH19	—	—
	3"	6000 lb.	13"	8½" x 8½"	D	Hamilton	1VHK7	—	1VHJ8 ‡
	4"	10,000 lb.	13"	8½" x 8½"	D	Hamilton	—	—	1VHJ9 †
Tapered Roller Bearing									
10"	4"	10,000 lb.	13"	8½" x 8½"	D	Hamilton	1VHK9	1VHL1	55HA35 ‡

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Hard Nylon Tread									
Precision Ball Bearing									
3⅛"	3⅛"	3850 lb.	4⅞"	4⅝₁₆" x 5½"	C	GA	22N099	22N108	—
3⅞"	2¼"	3300 lb.	5¹¹⁄₁₆"	4⅝₁₆" x 5½"	C	GA	22N072	—	22N073 *
	3⅛"	4850 lb.	6¼"	5½" x 6⅞"	D	GA	22N101	22N109	—
3¹⁵⁄₁₆"	2¼"	3850 lb.	6¹¹⁄₁₆"	4⅝₁₆" x 5½"	C	GA	—	22N077	—
4⅞"	2¼"	3850 lb.	6¹¹⁄₁₆"	4⅝₁₆" x 5½"	C	GA	22N075	—	22N076 *
	4⅝₁₆"	7925 lb.	8⅛"	7⅞" x 10¹⁄₁₆"	D	GA	22N102	22N110	—
4¹⁵⁄₁₆"	2¼"	3300 lb.	5¹¹⁄₁₆"	4⅝₁₆" x 5½"	C	GA	—	22N074	—
	2¼"	5500 lb.	8⅛"	5½" x 6⅞"	D	GA	—	22N080	—
5⅞"	2¼"	5500 lb.	8⅛"	5½" x 6⅞"	D	GA	22N078	—	22N079 *
4"	2"	800 lb.	5⅝"	4" x 5"	B	Hamilton	49H524	—	45RH66 ‡
	2"	975 lb.	5⅝"	4" x 4½"	B	Hamilton	—	49H531	—
	2"	2000 lb.	5⅝"	4" x 5"	B	Hamilton	49H509	—	—
	2"	2000 lb.	5⅝"	4" x 4½"	B	Hamilton	—	49H534	—
	2"	2000 lb.	5⅝"	4½" x 6½"	A	Hamilton	154M41	154F83	55HA25 ‡
	2"	7200 lb.	5⅝"	4" x 5"	B	Hamilton	—	—	49H518 ‡
6"	2"	1000 lb.	7½"	4" x 5"	B	Hamilton	49H525	49H532	49H519 ‡
	3"	4000 lb.	8"	5¼" x 7¼"	A	Hamilton	49H549	49H564	45RH68 ‡
Hard Phenolic Tread									
Roller Bearing									
4"	2"	800 lb.	5⅝"	4" x 5"	B	Hamilton	5VH91	5VG56	5VH92 ‡
	2"	800 lb.	5⅝"	4½" x 6½"	A	Hamilton	5VH40	—	—
6"	2"	1200 lb.	5⅝"	4½" x 6½"	B	Hamilton	—	5VG67	—
	2"	1200 lb.	7½"	4" x 5"	B	Hamilton	5VJ14	—	5VJ15 ‡
	2"	1200 lb.	7¾"	4½" x 6½"	A	Hamilton	5VH56	5VG34	6AZK6 ‡
	3"	2000 lb.	8"	5¼" x 7¼"	A	Hamilton	5VH07	5VF96	5VH08 ‡
8"	2"	1400 lb.	9½"	4" x 5"	B	Hamilton	5VJ24	5VG72	5VJ25 ‡
	2"	1400 lb.	9¾"	4½" x 6½"	A	Hamilton	5VH64	5VG38	6AZL0 ‡
	3"	3000 lb.	10½"	5¼" x 7¼"	A	Hamilton	5VH16	5VG02	5VH17 ‡
10"	3"	2900 lb.	12½"	5¼" x 7¼"	A	Hamilton	5VG98	5VF92	5VG99 ‡
Hard Polyurethane Tread									
Precision Ball Bearing									
4"	2"	975 lb.	5⅝"	4" x 5"	B	Hamilton	49H506	—	49H515 ‡
	2"	975 lb.	5⅝"	4½" x 6½"	A	Hamilton	49H473	49H489	—
6"	2"	1560 lb.	7½"	4" x 5"	B	Hamilton	49H507	—	—
	2"	1560 lb.	7¾"	4½" x 6½"	A	Hamilton	49H474	49H490	—
	3"	3500 lb.	8"	5¼" x 7¼"	A	Hamilton	49H555	49H570	—
8"	2"	2500 lb.	9¾"	4½" x 6½"	A	Hamilton	—	45AN50	—
	3"	4000 lb.	10½"	5¼" x 7¼"	A	Hamilton	—	49H571	—
10"	3"	4000 lb.	12½"	5¼" x 7¼"	A	Hamilton	49H557	49H572	—
Tapered Roller Bearing									
8"	3"	4000 lb.	10½"	5¼" x 7¼"	A	Hamilton	49H556	—	—
Extra-Hard Iron Tread									
Precision Ball Bearing									
4"	2"	1000 lb.	5⅝"	4" x 5"	B	Hamilton	5VH89	5VG55	45RH63 ‡
	2"	1000 lb.	5⅝"	4½" x 6½"	A	Hamilton	6AZJ2	6AZL3	6AZK1 ‡
6"	2"	1400 lb.	7½"	4" x 5"	B	Hamilton	5VJ12	5VG66	45RH64 ‡
	2"	1400 lb.	7¾"	4½" x 6½"	A	Hamilton	6AZJ5	—	6AZK5 ‡
8"	2"	1500 lb.	9½"	4" x 5"	B	Hamilton	5VJ22	5VG71	45RH65 ‡
	2"	2000 lb.	9¾"	4½" x 6½"	A	Hamilton	571Z76	—	571Z75 ‡
Roller Bearing									
6"	2"	1200 lb.	8"	4½" x 6¼"	A	GA	489D75	489C11	—
	2½"	2200 lb.	7½"	4½" x 6½"	A	Hamilton	5VH24	5VG15	—
Extra-Hard Steel Tread									
Precision Ball Bearing									
6"	2"	2000 lb.	7½"	4" x 5"	B	Hamilton	5VJ10	—	—
	2"	2000 lb.	7¾"	4½" x 6½"	A	Hamilton	6AZJ4	6AZL5	6AZK4 ‡
	3"	4000 lb.	8"	5¼" x 7¼"	A	Hamilton	5VH03	5VF94	—
8"	3"	4000 lb.	10½"	5¼" x 7¼"	A	Hamilton	5VH12	5VF99	5VH13 ‡
10"	3"	4000 lb.	12½"	5¼" x 7¼"	A	Hamilton	5VG94	5VF90	—
Extra-Hard Thermoplastic Rubber Tread									
Precision Ball Bearing									
8"	2"	1400 lb.	9¾"	4½" x 6½"	A	Hamilton	—	571Z70	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

For information on selecting casters, see page 1194.



Swivel Caster w/ Four-Position Swivel Lock and Brake No. 55HA33



Swivel Caster No. 49H573



Plate A



Plate B



Plate D

GA GRAINGER APPROVED HAMILTON

Super-Duty Standard Plate Casters

Super-duty standard plate casters have forged steel frames and forged steel kingpins and can bear very heavy loads. They tolerate more frequent use and withstand more shock and impact from rolling over rough or uneven ground than light-duty, medium-duty, heavy-duty, and extra-heavy-duty standard plate casters. These casters mount onto die carts and other heavy equipment used in shipbuilding sites, aerospace plants, automotive factories, steel mills, heavy equipment manufacturers, and other industrial operations.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Firm Polyurethane Tread									
Precision Ball Bearing									
6"	3"	2100 lb.	8"	5¼" x 7¼"	A	GA	455T64	455T65	—
8"	3"	2500 lb.	10½"	5¼" x 7¼"	A	GA	489D54	454N06	489D55 ‡
10"	3"	3000 lb.	12½"	5¼" x 7¼"	A	GA	454N29	454N30	—
Tapered Roller Bearing									
8"	3"	3500 lb.	11"	8½" x 8½"	D	Hamilton	5VH82	5VG50	5VH83 †
10"	4"	5000 lb.	13"	8½" x 8½"	D	Hamilton	5VH73	5VG45	55HA29 ‡
	4"	5000 lb.	13"	8½" x 8½"	D	Hamilton	—	—	5VH74 †
12"	4"	6000 lb.	15½"	8½" x 8½"	D	Hamilton	5VH75	5VG46	55HA30 ‡
	4"	6000 lb.	15½"	8½" x 8½"	D	Hamilton	—	—	5VH76 †
Firm Steel Tread									
Tapered Roller Bearing									
8"	3"	3500 lb.	11"	8½" x 8½"	D	Hamilton	—	—	55HA33 ‡
Hard Nylon Tread									
Precision Ball Bearing									
6"	3"	3500 lb.	8"	5¼" x 7¼"	A	GA	—	455T66	455T71 ‡
8"	3"	6500 lb.	10½"	6½" x 7½"	B	Hamilton	6AZN4	6AZP2	6AZN8 ‡
	3"	7200 lb.	11"	8½" x 8½"	D	Hamilton	49H573	49H579	—
10"	3"	8200 lb.	13"	8½" x 8½"	D	Hamilton	49H574	49H580	—
12"	4"	10,000 lb.	15½"	8½" x 8½"	D	Hamilton	49H575	49H581	—
Hard Phenolic Tread									
Roller Bearing									
6"	3"	2000 lb.	8"	5¼" x 7¼"	A	GA	489D52	—	489D53 ‡
10"	3"	2900 lb.	12½"	5¼" x 7¼"	A	GA	489D49	—	489D50 ‡
Extra-Hard Steel Tread									
Tapered Roller Bearing									
6"	3"	10,000 lb.	8½"	6½" x 7½"	B	Hamilton	6AZN1	6AZN9	6AZN5 ‡
	3"	12,000 lb.	10"	8½" x 8½"	D	Hamilton	5VH78	5VG47	5VH79 †
	3"	12,000 lb.	10"	8½" x 8½"	D	Hamilton	—	—	55HA31 ‡
8"	3"	10,000 lb.	10½"	6½" x 7½"	B	Hamilton	6AZN3	6AZP1	6AZN7 ‡
	3"	14,000 lb.	11"	8½" x 8½"	D	Hamilton	5VH80	5VG49	5VH81 †
	3"	14,000 lb.	11"	8½" x 8½"	D	Hamilton	—	—	55HA32 ‡
	4"	17,000 lb.	11"	8½" x 8½"	D	Hamilton	5VH84	5VG51	5VH85 †
	4"	17,000 lb.	11"	8½" x 8½"	D	Hamilton	—	—	55HA34 ‡
10"	3"	16,000 lb.	13"	8½" x 8½"	D	Hamilton	5VH68	5VG42	5VH69 †
	3"	16,000 lb.	13"	8½" x 8½"	D	Hamilton	—	—	55HA27 ‡
	4"	18,000 lb.	13"	8½" x 8½"	D	Hamilton	5VH70	5VG43	5VH71 †
	4"	18,000 lb.	13"	8½" x 8½"	D	Hamilton	—	—	55HA28 ‡

† With four-position swivel lock. ‡ With four-position swivel lock and brake.



With Side-Pedal Brake No. 449U04



Plate A

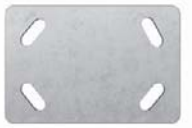


Plate B



Without Brake No. 31AR68

GA GRAINGER APPROVED GREENLEE

Standard Plate Caster Kits

Standard plate caster kits contain parts for replacing worn or damaged casters on equipment or adding new casters to equipment. The kits each include two swivel plate casters and two rigid plate casters that are used together to allow the equipment to both maneuver around curves and obstacles and maintain a straight course while rolling. Each kit's load rating is the sum of the load ratings for all the casters in the kit. All the casters in these kits have roller bearings, which are suitable for moving heavy loads. **NSF-listed** standard plate caster kits satisfy the National Sanitation Foundation's (NSF) rigorous testing requirements for casters that are used in environments where they will be exposed to frequent washdowns, oils, or chemicals.

Wheel Dia.	Wheel Width	Kit Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Caster Brake Type	Brand	Item No.
Soft Polyurethane Tread								
6"	2"	4800 lb.	7 ½"	4" x 4½"	B	No Brake Included	GA	5PKJ2
8"	2"	4800 lb.	9 ½"	4" x 4½"	B	No Brake Included	GA	5PKJ3
Soft Rubber Tread								
6"	1½"	4800 lb.	7½"	4" x 4½"	A	Face Contact Brake	GA	4LLN4
6"	2"	2200 lb.	7½"	4" x 4½"	B	No Brake Included	GA	489D05 *
8"	2"	2400 lb.	9 ½"	4" x 4½"	B	No Brake Included	GA	5PKH9
Firm Polyurethane Tread								
4"	1½"	3200 lb.	5½"	4" x 4½"	A	No Brake Included	GA	437V70
6"	2"	3600 lb.	7½"	4" x 4½"	B	Side Pedal Brake	Greenlee	449U04
8"	1½"	5000 lb.	9½"	4" x 4½"	A	Side Pedal Brake	GA	437V68
8"	2"	3600 lb.	9½"	4" x 4½"	B	Side Pedal Brake	Greenlee	449U05
Firm Rubber Tread								
6"	2"	2400 lb.	7½"	4" x 4½"	B	No Brake Included	GA	5PKH8
Hard Nylon Tread								
6"	2"	4800 lb.	7 ½"	4" x 4½"	B	No Brake Included	GA	5PKJ4
8"	2"	4800 lb.	9 ½"	4" x 4½"	B	No Brake Included	GA	5PKJ5
Hard Phenolic Tread								
4"	2"	2100 lb.	5⅝"	4" x 4½"	B	No Brake Included	GA	24WA38
5"	2"	2700 lb.	6½"	4" x 4½"	B	No Brake Included	GA	24WA39
6"	2"	3600 lb.	7½"	4" x 4½"	B	No Brake Included	GA	24WA40
Hard Polyolefin Tread								
5"	2"	2600 lb.	6½"	4" x 4½"	B	No Brake Included	GA	435X97
6"	2"	3000 lb.	7½"	4" x 4½"	B	No Brake Included	GA	435X98
Hard Polypropylene Tread								
4"	2"	1800 lb.	5⅝"	4" x 4½"	B	No Brake Included	GA	31AR68
Extra-Hard Steel Tread								
4"	1½"	3200 lb.	5½"	4" x 4½"	A	No Brake Included	GA	437V69
6"	2"	2700 lb.	7½"	4" x 4½"	B	No Brake Included	GA	4LLN3
8"	1½"	5000 lb.	9½"	4" x 4½"	A	Side Pedal Brake	GA	437V67

** NSF listed.*

CAD DRAWINGS
Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**

CAD

For information on selecting casters, see page 1194.



Medium-Duty Swivel No. 5VF73



Extra-Heavy-Duty Swivel w/ Brake No. 4W704



Super-Duty Swivel No. 1VHW9



Plate A



Plate B



Plate D



Plate E

GA GRAINGER APPROVED · RWM · HAMILTON · colson

Kingpinless Plate Casters

Kingpinless plate casters do not use a kingpin to hold the caster together. They distribute weight more evenly, roll more smoothly, tolerate higher speeds, and can better withstand impacts and shock forces than standard plate casters, and they are suitable for industrial applications where they will be rolling on rough or uneven surfaces. **Light-duty triangular-mount** casters have a triangular mounting plate and can be installed in areas where a caster with a square mounting plate would not fit. **Medium-duty** casters have zinc-plated steel frames and are suitable for pushing and lightly towing carts and trucks in assembly lines, metal fabrication, and waste- and scrap-disposal applications. **Heavy-duty** casters have zinc-plated or powder-coated steel frames and are suitable for pushing and towing carts, trucks, and equipment in heavy manufacturing plants and automotive assembly lines. **Extra-heavy-duty** casters have thick steel frames and are suitable for pushing and towing carts, dollies, trailers, heavy machinery, storage tanks, gantry cranes, and other equipment in heavy industrial operations. **Super-duty** casters are suitable for pushing or towing equipment such as gantry cranes, storage tanks, and large machinery in automotive and aerospace manufacturing, shipbuilding, and airport ground support operations. **Easy-swivel extended-lead** casters take less effort to start rolling, provide better tracking, and create less chatter (wobble) than plate casters with standard-length leads. **Easy-turn** casters each have two wheels mounted on a single axle, which reduces the friction between the floor and the wheels and allows them to swivel more easily than single-wheel casters. **Corrosion-resistant** casters have stainless-steel frames that resist rusting when used in areas where they will be exposed to water, cleaning chemicals, and other corrosives.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Light-Duty Triangular-Mount									
Hard Phenolic Tread									
3"	1½"	380 lb.	4½"	5½" x 5½"	E	GA	5VF67	—	—
4"	1½"	550 lb.	5½"	5½" x 5½"	E	GA	5VF68	—	—
Medium-Duty									
Soft Polyurethane Tread									
8"	2"	1500 lb.	9½"	4" x 4½"	B	GA	—	—	489C39
Soft Rubber Tread									
4"	2"	400 lb.	5⅜"	4" x 4½"	B	RWM	29XV13	29XV14	—
5"	1⅜"	440 lb.	6½"	4" x 4½"	A	GA	5VF71	5VF61	—
	2"	500 lb.	6½"	4" x 4½"	B	RWM	29XV19	29XV20	—
6"	1⅜"	660 lb.	7½"	4" x 4½"	A	GA	5VF73	5VF63	—
8"	1⅜"	880 lb.	9½"	4" x 4½"	A	GA	5VF75	5VF65	—
Soft Thermoplastic Rubber Tread									
6"	2"	600 lb.	7½"	4" x 4½"	B	GA	4DE96	4DE98	—
Firm Nythane Tread									
5"	1¾"	550 lb.	6½"	4" x 4½"	A	GA	16D129	—	—
8"	2"	880 lb.	9½"	4" x 4½"	A	GA	16D133	—	—
Firm Polyurethane Tread									
4"	2"	650 lb.	5⅜"	4" x 4½"	B	GA	49H860	49H862	—
5"	2"	750 lb.	6½"	4" x 4½"	B	GA	49H863	49H864	—
	2"	990 lb.	6½"	4½" x 6¼"	A	GA	455T73	—	—
	2"	1000 lb.	6½"	4" x 4½"	B	Colson	1VJA8	1VJA7	—
	2"	1050 lb.	6½"	4" x 4½"	B	RWM	29XV17	29XV18	—
6"	2"	1000 lb.	7½"	4" x 4½"	B	GA	423J19	49H867	—
	2"	1200 lb.	7½"	4" x 4½"	B	GA	489C70	489C73	489C71 ‡
	2"	1200 lb.	7½"	4" x 4½"	B	GA	—	—	490W16 ‡
	2"	1200 lb.	7½"	4½" x 6¼"	A	GA	—	—	489D77 ‡
	2"	1230 lb.	7½"	4" x 4½"	B	RWM	29XV23	29XV24	—
	2"	1650 lb.	7½"	4" x 4½"	B	GA	—	—	455T61
	3"	2000 lb.	7½"	4½" x 6¼"	A	GA	36HW71	36HW72	—
8"	2"	1200 lb.	9½"	4" x 4½"	B	GA	19YW82	49H870	—
	2"	1250 lb.	9½"	4" x 4½"	B	GA	—	—	489C72 ‡
	2"	1250 lb.	9½"	4½" x 6¼"	A	GA	—	—	489D78 ‡
	2"	1500 lb.	9½"	4" x 4½"	B	RWM	29XV29	29XV30	—
	2"	1500 lb.	9½"	4" x 4½"	B	GA	490W09	—	—
Firm Rubber Tread									
4"	2"	300 lb.	5⅜"	4" x 4½"	B	GA	29XV35	29XV36	—
6"	2"	500 lb.	7½"	4" x 4½"	B	GA	29XV41	29XV42	—
8"	2"	600 lb.	9½"	4" x 4½"	B	GA	29XV51	—	—
Firm Thermoplastic Rubber Tread									
4"	2"	300 lb.	5⅜"	4" x 4½"	B	GA	440A59	—	—
5"	2"	350 lb.	6½"	4" x 4½"	B	GA	1VJC6	—	—
6"	2"	500 lb.	7½"	4" x 4½"	B	GA	1VJC8	—	—
Hard Elastomer Tread									
4"	2"	1050 lb.	5⅜"	4" x 4½"	B	RWM	29XV09	29XV10	—
6"	2"	1500 lb.	7½"	4" x 4½"	B	RWM	29XV21	29XV22	—
8"	2"	1500 lb.	9½"	4" x 4½"	B	RWM	29XV27	—	—
	2"	1500 lb.	9½"	5" x 5½"	D	RWM	53CF24	—	—
Hard Nylon Tread									
4"	2"	350 lb.	5⅜"	4" x 4½"	B	GA	45XA97	45XA98	—
	2"	1000 lb.	5⅜"	4" x 4½"	B	GA	45XA96	—	—
	2"	1000 lb.	5⅜"	4" x 4½"	B	GA	489C51	—	—
	2"	1750 lb.	5⅜"	4" x 4½"	B	GA	489C61	489C63	489C62 ‡
5"	2"	500 lb.	6½"	4" x 4½"	B	GA	29XV37	45XC01	—
	2"	1250 lb.	6½"	4" x 4½"	B	GA	45XA99	—	—
6"	2"	720 lb.	7½"	4" x 4½"	B	GA	45XC03	—	—
	2"	720 lb.	7½"	4" x 4½"	B	GA	29XV39	45XC04	—
	2"	1760 lb.	7½"	4" x 4½"	B	GA	—	—	455T62 ‡
8"	2"	880 lb.	9½"	4" x 4½"	B	GA	29XV49	—	—
	2"	880 lb.	10⅛"	4" x 4½"	B	GA	45XC08	45XC10	—
	2"	880 lb.	10⅛"	4½" x 6¼"	A	GA	45XC11	—	—
	2"	880 lb.	10⅛"	4½" x 6¼"	A	GA	45XC12	—	—
	2"	2200 lb.	9½"	4" x 4½"	A	GA	2GML2	2GML3	—
Hard Phenolic Tread									
3¼"	2"	700 lb.	4¼"	4" x 4½"	B	GA	490W11	—	—
4"	2"	700 lb.	5⅜"	4" x 4½"	A	GA	5VF70	5VF60	—
	2"	800 lb.	5⅜"	4" x 4½"	B	GA	489D32	—	—
5"	2"	1000 lb.	6½"	4" x 4½"	B	GA	5VF72	—	—
6"	2"	1200 lb.	7½"	4" x 4½"	B	GA	489D64	5VF64	489D65 ‡
	2"	1200 lb.	7½"	4" x 4½"	B	GA	5VF74	—	—
8"	2"	1400 lb.	9½"	4" x 4½"	B	GA	5VF76	5VF66	—
Hard Polyurethane Tread									
4"	2"	600 lb.	5⅜"	4" x 4½"	B	GA	1VJB5	—	—
5"	2"	750 lb.	6½"	4" x 4½"	B	GA	1VJB7	—	—
	2"	770 lb.	7½"	4" x 4½"	B	GA	454M61	—	—
6"	2"	900 lb.	7½"	4" x 4½"	B	GA	1VJB9	—	—
	2"	1000 lb.	7½"	4" x 4½"	B	GA	4DE80	4DE81	—
8"	2"	1000 lb.	10⅛"	4" x 4½"	B	GA	440A60	—	—
Hard Thermoplastic Rubber Tread									
5"	2"	1000 lb.	6½"	4" x 4½"	B	RWM	29XU43	—	—
Extra-Hard Ductile Iron Tread									
5"	2"	1500 lb.	6½"	4" x 4½"	B	GA	1VJA2	—	—
6"	2"	1400 lb.	7½"	4" x 4½"	B	GA	1VJA4	—	—
8"	2"	1400 lb.	10⅛"	4" x 4½"	B	GA	1VJA6	—	—
Extra-Hard Iron Tread									
6"	2"	1200 lb.	7½"	4" x 4½"	B	GA	489D63	—	489C46 ‡
8"	2"	1400 lb.	9½"	4" x 4½"	B	GA	489D67	—	489C47 ‡
Heavy-Duty									
Soft Polyurethane Tread									
4"	2"	600 lb.	5⅜"	4" x 5"	B	Hamilton	—	—	45AN20 ‡
6"	2"	960 lb.	7½"	4" x 5"	B	Hamilton	—	—	45AN54 ‡
	2"	1230 lb.	7½"	4" x 4½"	B	RWM	—	—	53CG35 ‡
8"	2"	1200 lb.	9½"	4" x 5"	B	Hamilton	—	—	45AN05 ‡
	2"	1500 lb.	9½"	4" x 4½"	B	RWM	53CG39	—	53CG42 ‡
Soft Rubber Tread									
5"	2"	600 lb.	6½"	4" x 4½"	B	RWM	53CF59	—	—
6"	2"	410 lb.	7½"	4½" x 6½"	A	RWM	53CF67	—	—
	2"	600 lb.	7½"	4" x 4½"	B	RWM	29XV84	29XV85	—
	2"	615 lb.	7½"	4" x 4½"	B	RWM	53CF61	—	—
8"	2"	700 lb.	10⅛"	4" x 4½"	B	RWM	29XV98	29XV99	—
	2"	750 lb.	9½"	4" x 4½"	B	RWM	53CF65	—	—
	2"	750 lb.	10⅛"	4½" x 6½"	A	RWM	53CF64	53CF62	—
	2"	1200 lb.	10⅛"	6⅜" x 5¾"	A	GA	4W682	4W686	—
Soft Thermoplastic Rubber Tread									
6"	2"	525 lb.	7½"	4" x 4½"	B	RWM	53CF74	—	—
8"	2"	600 lb.	10⅛"	4" x 4½"	B	RWM	53CF76	—	—

† With four-position swivel lock. ‡ With four-position swivel lock and brake.

CONTINUED

CONTINUED

GA GRAINGER APPROVED RWM HAMILTON colson

Kingpinless Plate Casters

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Firm Polyurethane Tread									
4"	1½"	480 lb.	6⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W664**	**4W667**	—
	2"	700 lb.	5⅝"	4" x 4½"	B	RWM	**29XV67**	**53CF94**	—
	2"	700 lb.	5⅝"	4" x 4½"	B	RWM	**53CF95**	—	—
	2"	700 lb.	5⅝"	4" x 4½"	B	RWM	**53CF96**	—	—
5"	2"	750 lb.	6½"	4" x 4½"	B	RWM	**53CG62**	**53CG53**	—
	2"	1050 lb.	6½"	4" x 4½"	B	RWM	**53CF99**	**53CF97**	—
	2"	1050 lb.	6½"	4" x 4½"	B	RWM	**53CG02**	—	—
	2"	1050 lb.	6½"	4½" x 6½"	A	RWM	**53CG45**	**53CG44**	—
6"	1½"	1600 lb.	8⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W676**	**4W680**	**4W678**
	2"	900 lb.	7½"	4" x 4½"	B	RWM	**53CG64**	**53CG55**	—
	2"	1200 lb.	7½"	4" x 5"	B	Hamilton	—	**45AM82**	**45AN16** ‡
	2"	1230 lb.	7½"	4" x 4½"	B	RWM	**29XV92**	**29XV93**	—
	2"	1230 lb.	7½"	4" x 4½"	B	RWM	**53CG05**	—	—
	2"	1230 lb.	7½"	4½" x 6½"	A	RWM	**53CG48**	**53CG46**	**53CG49**
	2"	1230 lb.	7⅝"	5¼" x 7¼"	A	RWM	—	—	**53CG51**
8"	1½"	2400 lb.	10⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W683**	**4W687**	**4W685**
	2"	1000 lb.	9½"	4" x 4½"	B	RWM	**53CG58**	—	—
	2"	1500 lb.	9½"	4" x 5"	B	Hamilton	**45AN11**	—	—
	2"	1500 lb.	9½"	4" x 4½"	B	RWM	**53CG13**	**53CG37**	**53CG41** ‡
	2"	1500 lb.	9½"	4" x 4½"	B	RWM	**53CG14**	—	—
	2"	1500 lb.	9½"	4" x 4½"	B	RWM	**53CG38**	—	—
	2"	1500 lb.	10⅛"	4" x 4½"	B	RWM	**29XW03**	**29XW04**	—
10"	1¾"	2640 lb.	12⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W690**	—	—
12"	1¾"	3080 lb.	14"	6⁹⁄₁₆" x 5¾"	A	GA	**4W697**	**4W700**	—
Hard Elastomer Tread									
4"	2"	1050 lb.	5⅜"	4" x 4½"	B	RWM	**53CF42**	—	—
5"	2"	1200 lb.	6½"	4" x 4½"	B	RWM	**53CF45**	**53CF44**	—
6"	2"	1500 lb.	7½"	4" x 4½"	B	RWM	**29XU55**	**29XV83**	**29XU56** †
8"	2"	1800 lb.	9½"	4" x 4½"	B	RWM	**53CF57**	—	—
	2"	1800 lb.	10⅛"	4" x 4½"	B	RWM	—	—	**29XU49** ‡
Hard Phenolic Tread									
4"	2"	800 lb.	5⅜"	4" x 4½"	B	RWM	**53CF28**	**53CF27**	—
5"	2"	1000 lb.	6½"	4" x 4½"	B	RWM	**53CF30**	**53CF29**	—
6"	2"	1200 lb.	7½"	4" x 4½"	B	RWM	**29XV79**	**29XV80**	—
8"	2"	1400 lb.	9½"	4" x 4½"	B	RWM	**53CF33**	—	—
	2"	1400 lb.	9½"	4" x 4½"	B	RWM	**53CF34**	—	—
Hard Polyurethane Tread									
4"	2"	1100 lb.	5⅜"	4" x 4½"	B	RWM	**53CF79**	—	—
	2"	1100 lb.	5⅜"	4½" x 6½"	A	RWM	—	**53CF77**	**53CF80** ‡
	2"	3500 lb.	5⅜"	4" x 5"	B	Hamilton	**45AN03**	—	—
6"	2"	2000 lb.	7½"	4" x 4½"	B	RWM	—	—	**53CF86** ‡
	2"	2000 lb.	7½"	4½" x 6½"	A	RWM	**53CF84**	—	—
	2"	2400 lb.	7½"	4" x 5"	B	Hamilton	**45AN15**	**45AM98**	**45AN33** ‡
8"	2"	2000 lb.	9½"	4½" x 6½"	A	RWM	**53CF90**	**53CF88**	—
	2"	2500 lb.	9½"	4" x 5"	B	Hamilton	**45AM95**	—	**45AN31** ‡
Extra-Hard Iron Tread									
4"	1¾"	700 lb.	6⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W665**	**4W668**	—
5"	1¾"	1400 lb.	7⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W671**	—	—
6"	1¾"	2000 lb.	8⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W677**	**4W681**	—
	2½"	3500 lb.	7¹⁵⁄₁₆"	5¼" x 7¼"	A	GA	**416P26**	—	—
8"	1¾"	2250 lb.	10⅛"	6⁹⁄₁₆" x 5¾"	A	GA	**4W684**	**4W688**	—
Extra-Hard Steel Tread									
5"	2"	1500 lb.	6½"	4" x 4½"	B	RWM	**53CF36**	**53CF35**	—
6"	2"	1800 lb.	7½"	4" x 4½"	B	RWM	**29XV81**	**29XV82**	—
	2"	2500 lb.	7½"	4" x 5"	B	Hamilton	**45AN52**	—	**45AN51** ‡
Extra-Heavy-Duty									
Soft Polyurethane Tread									
4"	2"	600 lb.	5⅜"	4½" x 6½"	A	Hamilton	**45AM92**	—	—
6"	3"	2400 lb.	7½"	4½" x 6½"	A	Hamilton	**45AN18**	—	**45AM85** ‡
Firm Polyurethane Tread									
6"	1½"	1600 lb.	8½"	6" x 7⁷⁄₁₆"	A	GA	**4W702**	**4W706**	**4W704**
	2"	1200 lb.	7¾"	4½" x 6½"	A	Hamilton	**45AM99**	—	—
	3"	2000 lb.	7½"	4½" x 6½"	A	RWM	**29XW25**	**29XW26**	—
	3"	2000 lb.	7½"	4½" x 6¼"	A	GA	—	**489A95**	**490W17**
	3"	2000 lb.	8"	5¼" x 7¼"	A	RWM	**53CH39**	—	—
	4"	2000 lb.	7½"	4½" x 6¼"	A	GA	**454M99**	—	—
8"	2"	3000 lb.	10⅛"	4½" x 6½"	A	RWM	**53CH11**	—	—
	3"	2500 lb.	10⅛"	4½" x 6½"	A	RWM	**29XU42**	**29XU44**	**53CH15** ‡
	3"	2500 lb.	10⅛"	4½" x 6¼"	A	GA	**454N61**	—	—
	3"	2500 lb.	10⅛"	4½" x 6¼"	A	GA	**490W18**	—	—
	3"	2500 lb.	10⅛"	4½" x 6½"	A	RWM	**53CH14**	—	—
	3"	2500 lb.	10¼"	4½" x 6½"	A	Hamilton	—	—	**45AN21** ‡
	3"	2550 lb.	10⅞"	4½" x 6¼"	A	GA	—	—	**455T68** ‡
	3"	3965 lb.	10½"	6" x 7⁷⁄₁₆"	A	GA	**4W711**	—	—
9¹⁵⁄₁₆"	3¼"	3950 lb.	12½"	5¼" x 7¼"	A	GA	**455T81**	—	**454N32**
10"	3"	3000 lb.	11½"	4½" x 6½"	A	RWM	**29XW35**	**29XW36**	—
	3"	3000 lb.	12½"	4½" x 6¼"	A	GA	**454N63**	**454N64**	—
	3"	5000 lb.	12½"	5¼" x 7¼"	A	RWM	**53CH52**	**53CH46**	**53CH50**
12"	3"	3400 lb.	13½"	4½" x 6½"	A	RWM	**53CH20**	—	—
	3"	3500 lb.	15½"	5¼" x 7¼"	A	GA	—	—	**489C49** ‡
Hard Elastomer Tread									
6"	2½"	2300 lb.	7½"	4½" x 6½"	A	RWM	**29XW19**	**29XW20**	—
Hard Nylon Tread									
6"	3"	2600 lb.	7½"	4½" x 6½"	A	RWM	**53CG88**	—	—
	3"	4100 lb.	7½"	4½" x 6¼"	A	GA	**483N19**	**483N18**	—
	3"	4100 lb.	7½"	5¼" x 7¼"	A	GA	**440A58**	—	—
	3"	7000 lb.	8"	5¼" x 7¼"	A	RWM	**53CH35**	**53CH34**	—
8"	3"	3200 lb.	10¼"	4½" x 6½"	A	Hamilton	—	—	**45AN35** ‡
	3"	5400 lb.	10⅛"	5¼" x 7¼"	A	GA	**483N24**	**483N23**	—
	3"	6000 lb.	10⅛"	4½" x 6½"	A	RWM	—	—	**53CG93** ‡
10"	3"	4100 lb.	12½"	4½" x 6¼"	A	GA	**440A63**	—	—
	3"	6000 lb.	11½"	4½" x 6½"	A	RWM	**53CG95**	—	—
Hard Phenolic Tread									
6"	2½"	1600 lb.	7½"	4½" x 6½"	A	RWM	**29XW15**	**29XW16**	—
	3"	3000 lb.	8"	5¼" x 7¼"	A	RWM	**29XW39**	**29XW40**	—
8"	2½"	2000 lb.	10⅛"	4½" x 6½"	A	RWM	**29XW27**	**29XW28**	—
	3"	2500 lb.	10½"	5¼" x 7¼"	A	RWM	**29XW47**	—	—
Hard Polyurethane Tread									
4"	2"	1100 lb.	5⅝"	4½" x 6½"	A	Hamilton	**45AN32**	—	—
6"	3"	3200 lb.	7½"	4½" x 6½"	A	Hamilton	**45AM80**	—	**45AM81** ‡
8"	3"	3200 lb.	10¼"	4½" x 6½"	A	Hamilton	**45AM73**	—	—
	3"	3850 lb.	10⅛"	4½" x 6½"	A	RWM	**53CH02**	—	—
Extra-Hard Ductile Iron Tread									
6"	3"	3500 lb.	7½"	4½" x 6¼"	A	GA	**1VJE2**	**1VJE1**	—
	3"	4100 lb.	7½"	4½" x 6¼"	A	GA	**1VJE4**	**1VJE3**	—
	3"	5400 lb.	7½"	5¼" x 7¼"	A	GA	**1VJG6**	—	—
8"	3"	4100 lb.	10⅛"	4½" x 6¼"	A	GA	**1VJE6**	**1VJE5**	—
10"	3"	4100 lb.	12½"	4½" x 6¼"	A	GA	**1VJE8**	**1VJE7**	—
Extra-Hard Iron Tread									
10"	3"	4000 lb.	11½"	4½" x 6½"	A	RWM	**53CG74**	**53CG73**	—
Extra-Hard Steel Tread									
6"	2"	2500 lb.	7¾"	4½" x 6½"	A	Hamilton	**45AM90**	—	**45AN06** ‡
	2½"	5000 lb.	7½"	4½" x 6½"	A	RWM	**29XW17**	**29XW18**	—
	3"	3200 lb.	7½"	4½" x 6½"	A	Hamilton	**45AN46**	—	**45AM74** ‡
	3"	6000 lb.	7½"	4½" x 6½"	A	RWM	**29XW21**	**29XW22**	—
	3"	7000 lb.	8"	5¼" x 7¼"	A	RWM	**53CH23**	**53CH22**	—
	3"	7000 lb.	8"	5¼" x 7¼"	A	RWM	**53CH29**	**53CH28**	—
8"	2½"	4500 lb.	10⅛"	4½" x 6½"	A	RWM	**29XW29**	—	—
	3"	5500 lb.	8"	5¼" x 7¼"	A	RWM	**53CH25**	**53CH24**	—
	3"	5500 lb.	10⅛"	4½" x 6½"	A	RWM	**53CG83**	**53CG84**	—
	3"	5500 lb.	10½"	5¼" x 7¼"	A	RWM	**53CH31**	—	—
	3"	5500 lb.	10½"	5¼" x 7¼"	A	RWM	**29XW49**	**29XW50**	—
	3"	6000 lb.	11½"	4½" x 6½"	A	RWM	**53CG86**	—	—
10"	3"	6000 lb.	12½"	5¼" x 7¼"	A	RWM	**53CH27**	—	—
	3"	6000 lb.	12½"	5¼" x 7¼"	A	RWM	**53CH33**	—	—
Super-Duty									
Firm Polyurethane Tread									
6"	3"	2200 lb.	8"	5¼" x 7¼"	A	Hamilton	**1VHW1**	**1VHW2**	—
8"	3"	2500 lb.	10½"	5¼" x 7¼"	A	Hamilton	**1VHW7**	—	—
10"	3"	3000 lb.	12½"	5¼" x 7¼"	A	Hamilton	**1VHX4**	**1VHX5**	—
	3"	3000 lb.	12½"	6½" x 7½"	B	Hamilton	**52YU34**	—	—
Hard Nylon Tread									
6"	3"	10,000 lb.	8½"	6¼" x 7½"	B	RWM	**29XW60**	**29XW61**	—
8"	3"	6000 lb.	10½"	5¼" x 7¼"	A	Hamilton	**49H585**	**49H587**	—
10"	3"	10,000 lb.	12½"	6¼" x 7½"	B	RWM	**29XW72**	—	—
Extra-Hard Steel Tread									
6"	3"	3500 lb.	8"	5¼" x 7¼"	A	Hamilton	**52YU05**	—	**52YU40** ‡
	3"	6000 lb.	8"	5¼" x 7¼"	A	Hamilton	**1VHW3**	**1VHW4**	—
8"	3"	3500 lb.	10½"	5¼" x 7¼"	A	Hamilton	**52YU07**	—	—
	3"	6000 lb.	10½"	5¼" x 7¼"	A	Hamilton	**1VHW9**	**1VHX1**	—
	4"	20,000 lb.	10½"	6¼" x 7½"	B	RWM	**29XW68**	**29XW69**	—
10"	3"	6000 lb.	12½"	5¼" x 7¼"	A	Hamilton	**1VHX6**	**1VHX7**	—
Easy-Swivel Extended-Lead Medium-Duty									
Firm Polyurethane Tread									
4"	2"	650 lb.	5⅝"	4" x 4½"	B	GA	**49H861**	—	—
5"	2"	750 lb.	6½"	4" x 4½"	B	GA	**45XC21**	—	—
6"	2"	1000 lb.	7½"	4" x 4½"	B	GA	**49H866**	—	—
8"	2"	1200 lb.	9½"	4" x 4½"	B	GA	**49H869**	—	**38GV52**
	2"	1200 lb.	10⅛"	4" x 4½"	B	GA	**49H868**	—	—
	2"	1200 lb.	10⅛"	4½" x 6¼"	A	GA	**19YW86**	—	—
Easy-Turn Extra-Heavy-Duty									
Firm Polyurethane Tread									
6"	2"	2460 lb.	8"	4½" x 6½"	A	RWM	**53CF21**	—	—
Hard Elastomer Tread									
6"	2"	3000 lb.	8"	4½" x 6½"	A	RWM	—	—	**53CH64** †
Extra-Hard Iron Tread									
6"	2"	2400 lb.	8"	4½" x 6½"	A	RWM	**53CF19**	—	—
Corrosion-Resistant Medium-Duty									
Firm Polyurethane Tread									
5"	2"	750 lb.	6½"	4" x 4½"	B	RWM	**53CH61**	**53CH60**	—
Corrosion-Resistant Extra-Heavy-Duty									
Hard Nylon Tread									
6"	3"	3000 lb.	7½"	4½" x 6¼"	A	GA	**483N26**	—	—

† With four-position swivel lock. ‡ With four-position swivel lock and brake.

CAD DRAWINGS
Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**

CAD



Corrosion- & Heat-Resistant Swivel No. 33J044



Medium-Duty Swivel w/ 4-Position Directional Lock No. 489C48

GA GRAINGER APPROVED

NSF-Listed Sanitary Plate Casters

These casters satisfy the National Sanitation Foundation's (NSF) rigorous testing requirements for casters that are used in environments where sanitary conditions must be maintained. They mount onto carts, prep tables, food-service equipment, racks, and similar items that will be exposed to frequent washdowns, oils, or chemicals. **Light-duty** casters have zinc-plated or nickel-plated steel frames and are suitable for transporting relatively light loads over smooth, flat surfaces. **Medium-duty** casters have thick steel frames and can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than light-duty casters. They are suitable for transporting moderately heavy to heavy loads over smooth, flat surfaces. **Corrosion-resistant** casters have stainless-steel frames that resist rusting when exposed to water, cleaning chemicals, and other corrosives. **Heat-resistant** casters have nylon wheels that can withstand exposure to high temperatures up to 550°F. **Debris-resistant long-swivel-life** casters have a dust cap that stops debris from entering the casters' swivel raceways and preventing the caster from swiveling.



Plate A



Plate B



Plate C



Plate D

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Corrosion- & Heat-Resistant Light-Duty								
Hard Nylon Tread								
3"	1¼"	200 lb.	4¼"	2½" x 3⅝"	C	33J044	33J043	—
3½"	1¼"	250 lb.	4 11/16"	2½" x 3⅝"	C	33J045	—	—
4"	1¼"	275 lb.	5⅛"	2½" x 3⅝"	C	33J047	33J046	—
5"	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	33J049	33J048	—
Corrosion-Resistant Light-Duty								
Firm Polypropylene Tread								
3"	1¼"	200 lb.	4¼"	2½" x 3⅝"	C	—	33J058	—
3½"	1¼"	250 lb.	4 11/16"	2½" x 3⅝"	C	—	483N48	—
4"	1¼"	300 lb.	5⅛"	2½" x 3⅝"	C	—	33J062	—
5"	1¼"	325 lb.	6 3/16"	2½" x 3⅝"	C	—	33J064	—
Firm Rubber Tread								
4"	1¼"	300 lb.	5⅛"	2½" x 3⅝"	C	33J063	—	—
5"	1¼"	325 lb.	6 3/16"	2½" x 3⅝"	C	33J065	—	—
Firm Thermoplastic Rubber Tread								
3"	1¼"	200 lb.	4¼"	2½" x 3⅝"	C	33J059	—	—
Hard Polyurethane Tread								
3"	1¼"	300 lb.	4¼"	2½" x 3⅝"	C	33J051	33J050	—
3½"	1¼"	325 lb.	4 11/16"	2½" x 3⅝"	C	33J053	33J052	—
4"	1¼"	325 lb.	5⅛"	2½" x 3⅝"	C	33J055	33J054	—
Debris-Resistant Long-Swivel-Life Light-Duty								
Soft Rubber Tread								
4"	1¼"	165 lb.	5⅛"	3¾" x 4⅜"	B	—	—	33H642
	1¼"	200 lb.	5 3/16"	3⅛" x 4⅛"	A	33H917	—	33H637
5"	1¼"	200 lb.	6 3/16"	3¾" x 4⅜"	B	—	—	33H682
	1¼"	240 lb.	6 3/16"	3⅛" x 4⅛"	A	33H918	—	33H660
Soft Thermoplastic Rubber Tread								
4"	1½"	275 lb.	5 3/16"	3⅛" x 4⅛"	A	33H929	—	33H662
	1½"	275 lb.	5 3/16"	3¾" x 4½"	B	33H905	—	33H716
5"	1½"	300 lb.	6 3/16"	3⅛" x 4⅛"	A	33H930	—	33H663
	1½"	300 lb.	6 3/16"	3¾" x 4½"	B	33H906	—	33H717
Firm Polyurethane Tread								
4"	1½"	375 lb.	5 3/16"	3⅛" x 4⅛"	A	33H935	—	33H713
	1½"	375 lb.	5 3/16"	3¾" x 4½"	B	33H911	—	33J041
5"	1½"	450 lb.	6 3/16"	3⅛" x 4⅛"	A	33H936	—	33H714
	1½"	450 lb.	6 3/16"	3¾" x 4½"	B	33H912	—	33J042
6"	1½"	450 lb.	7 9/16"	3¾" x 4½"	B	33H913	—	33H719
Hard Phenolic Tread								
4"	1½"	350 lb.	5 3/16"	3¾" x 4½"	B	406P68	—	406P70
5"	1½"	450 lb.	6 3/16"	3¾" x 4½"	B	—	—	33H686
6"	1½"	450 lb.	7 9/16"	3¾" x 4½"	B	33H623	—	33H643
Hard Polyolefin Tread								
5"	1¼"	450 lb.	6 3/16"	3⅛" x 4⅛"	A	33H924	—	33J036
Hard Polypropylene Tread								
6"	1¼"	300 lb.	7¼"	3¾" x 4⅜"	B	33H901	—	—
Extra-Hard Iron Tread								
3"	1¼"	450 lb.	4¼"	3¾" x 4⅜"	B	33H777	—	—
Light-Duty								
Soft Rubber Tread								
3"	1¼"	125 lb.	4¼"	2½" x 3⅝"	C	—	—	489C26
3½"	1¼"	155 lb.	4 11/16"	2½" x 3⅝"	C	455U17	—	—
	1¼"	155 lb.	4 11/16"	3¾" x 4⅜"	B	488U03	—	—
4"	1¼"	150 lb.	5⅛"	3⅛" x 4⅛"	C	—	487H10	—
	1¼"	150 lb.	5⅛"	3¾" x 4⅜"	B	489C27	—	—
	1¼"	165 lb.	5⅛"	2½" x 3⅝"	C	4W906	400K58	—
	1¼"	165 lb.	5⅛"	3¾" x 4⅜"	B	—	33H895	—
	1¼"	200 lb.	5⅛"	3¾" x 4⅜"	B	455U18	—	—
	1¼"	200 lb.	5 3/16"	3⅛" x 4⅛"	A	—	33H920	—
5"	1¼"	175 lb.	6 3/16"	2½" x 3⅝"	C	489C24	489C25	—
	1¼"	200 lb.	6⅛"	2½" x 3⅝"	C	4W907	400K59	—
	1¼"	200 lb.	6 3/16"	3¾" x 4⅜"	B	—	33H896	—
	1¼"	240 lb.	6 3/16"	3⅛" x 4⅛"	A	—	33H921	—
	1¼"	325 lb.	6 3/16"	3⅛" x 4⅛"	C	483N49	487H11	—
6"	1¼"	325 lb.	7¼"	3⅛" x 4⅛"	C	483N43	—	—
	1¼"	325 lb.	7¼"	3¾" x 4⅜"	B	487G96	487G97	487G85
Soft Thermoplastic Rubber Tread								
3½"	1¼"	155 lb.	4⅝"	2¾" x 3¾"	C	—	4W920	—
4"	1¼"	165 lb.	5⅛"	2¾" x 3¾"	C	—	4W921	—
	1½"	275 lb.	5 3/16"	3⅛" x 4⅛"	A	—	33H932	—
	1½"	275 lb.	5 3/16"	3¾" x 4½"	B	—	33H908	—
5"	1¼"	200 lb.	6 3/16"	2½" x 3⅝"	C	—	400K62	—
	1¼"	200 lb.	6 3/16"	2½" x 3⅝"	C	400K61	4W922	—
	1½"	300 lb.	6 3/16"	3⅛" x 4⅛"	A	—	33H933	—
	1½"	300 lb.	6 3/16"	3¾" x 4½"	B	—	33H909	—
Firm Polyurethane Tread								
3"	1¼"	250 lb.	4¼"	2½" x 3⅝"	C	2G041	—	—
3½"	1¼"	250 lb.	4⅝"	2½" x 3⅝"	C	400K63	4W926	—
	1¼"	250 lb.	4⅝"	2½" x 3⅝"	C	1G095	1G098	5UX86
4"	1¼"	250 lb.	5⅛"	2½" x 3⅝"	C	1G096	1G099	—
	1¼"	275 lb.	5⅛"	2½" x 3⅝"	C	4W924	400K64	5UX87
	1½"	375 lb.	5 3/16"	3⅛" x 4⅛"	A	—	33H938	—
	1½"	375 lb.	5 3/16"	3¾" x 4½"	B	—	33H914	—
5"	1¼"	250 lb.	6⅛"	2½" x 3⅝"	C	1G097	1G100	—
	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	4W925	400K65	5UX88
	1½"	450 lb.	6 3/16"	3⅛" x 4⅛"	A	—	33H939	—
	1½"	450 lb.	6 3/16"	3¾" x 4½"	B	—	33H915	—
6"	1½"	450 lb.	7 9/16"	3¾" x 4½"	B	—	33H916	—
Firm Rubber Tread								
3½"	1¼"	155 lb.	4⅝"	2¾" x 3¾"	C	4W905	—	—
	1¼"	250 lb.	4 11/16"	2½" x 3⅝"	C	455U13	—	489A67 *
4"	1¼"	300 lb.	5⅛"	2½" x 3⅝"	C	455U14	455U16	—
5"	1¼"	325 lb.	6 3/16"	2½" x 3⅝"	C	455U15	488Z86	—
6"	1¼"	325 lb.	7¼"	3⅛" x 4⅛"	C	—	487H04	—
	1¼"	325 lb.	7¼"	3¾" x 4⅜"	B	487G99	487H01	—
Firm Thermoplastic Rubber Tread								
2"	⅞"	80 lb.	2⅝"	1¾" x 2⅝"	D	29XW87	—	—
3"	1¼"	210 lb.	4¼"	2½" x 3⅝"	C	2G053	—	—
Hard Phenolic Tread								
3"	1½"	350 lb.	4¼"	3¾" x 4½"	B	—	400K76	400K75
5"	1½"	450 lb.	6 3/16"	3¾" x 4½"	B	400K73	—	—
6"	1½"	450 lb.	7 9/16"	3¾" x 4½"	B	—	33H626	—
Hard Polyolefin Tread								
2½"	1⅜"	175 lb.	3½"	2¾" x 3¾"	C	1UKR9	—	—
3"	1¼"	210 lb.	3¾"	3⅛" x 4⅛"	A	1UKT2	435X84	1UKT4
	1¼"	250 lb.	4¼"	2⅝" x 3¾"	D	55FE17	55FE15	—
3½"	1¼"	250 lb.	4 11/16"	2½" x 3⅝"	C	4W911	4W914	5UX83
4"	1¼"	275 lb.	5⅛"	2½" x 3⅝"	C	4W912	400K60	5UX84
	1½"	300 lb.	5 3/16"	3⅛" x 4⅛"	A	33J002	33J004	33J015
5"	1¼"	300 lb.	6⅛"	2½" x 3⅝"	C	—	—	400K70
	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	4W913	4W916	5UX85
	1¼"	350 lb.	6 3/16"	3⅛" x 4⅛"	A	—	400K77	—
	1½"	350 lb.	6 3/16"	3⅛" x 4⅛"	A	33J003	33J005	33J016
6"	1¼"	400 lb.	7 19/64"	3⅛" x 4⅛"	A	—	33J011	33H641
Hard Polypropylene Tread								
3"	1¼"	210 lb.	3 13/16"	3⅛" x 4⅛"	C	33H744	—	—
4"	1¼"	275 lb.	5⅛"	3⅛" x 4⅛"	C	488Z81	—	483N47
	1¼"	275 lb.	5⅛"	3⅛" x 4⅛"	C	483N46	455U21	488Z82 *
	1¼"	275 lb.	5⅛"	3¾" x 4⅜"	B	455U19	—	—
5"	1¼"	300 lb.	6 3/16"	2½" x 3⅝"	C	489A65	489A66	—
	1¼"	300 lb.	6 3/16"	3⅛" x 4⅛"	C	488Z84	488Z83	—
6"	1¼"	250 lb.	7¼"	3¾" x 4⅜"	B	—	—	487H09
	1¼"	300 lb.	7¼"	3⅛" x 4⅛"	C	—	—	488U04
	1¼"	325 lb.	7¼"	3⅛" x 4⅛"	C	487H02	487H03	—
	1¼"	325 lb.	7¼"	3¾" x 4⅜"	B	—	487G98	—
Hard Polyurethane Tread								
6"	1¼"	325 lb.	7¼"	3⅛" x 4⅛"	C	487H05	487H06	—
Hard Rubber Tread								
3"	1¼"	210 lb.	3¾"	3⅛" x 4⅛"	A	1UKU3	1UKV4	1UKU7
4"	1¼"	150 lb.	5⅛"	3⅛" x 4⅛"	C	—	487G77	—
6"	1¼"	325 lb.	7¼"	3⅛" x 4⅛"	C	487G76	487G78	—
Extra-Hard Iron Tread								
3"	1¼"	450 lb.	4¼"	3¾" x 4⅜"	B	—	455U20	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

CONTINUED

CONTINUED

For information on selecting casters, see page 1194.

NSF-Listed Sanitary Plate Casters

GA GRAINGER APPROVED

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Medium-Duty									
Soft Rubber Tread									
5"	2"	400 lb.	6½"	4" x 4½"	B	488Z87	—	489A15	*
6"	2"	550 lb.	7½"	4" x 4½"	B	488Z88	489A17	489A16	*
	2"	550 lb.	7½"	4" x 4½"	B	489C32	—	—	
8"	2"	600 lb.	9½"	4" x 4½"	B	3G135	488Z91	488Z90	
	2"	600 lb.	9½"	4" x 4½"	B	488Z89	—	489A18	*
	2"	600 lb.	9½"	5" x 5½"	D	489A28	—	—	
Soft Thermoplastic Rubber Tread									
6"	2"	600 lb.	7¼"	4" x 4½"	B	2LY30	2LY28	—	
Firm Polyurethane Tread									
4"	2"	700 lb.	5⅝"	4" x 4½"	B	—	489D41	489C48	‡
	2"	700 lb.	5⅝"	4" x 4½"	B	—	—	489D59	‡
5"	2"	750 lb.	6½"	4" x 4½"	B	1ULE9	1ULF6	400K46	*
	2"	1050 lb.	6½"	4" x 4½"	B	1ULF9	3G138	—	
	2"	1050 lb.	6½"	4" x 4½"	B	3G139	—	—	
	2"	1050 lb.	6½"	5" x 5½"	D	—	1ULG4	—	
	2"	1100 lb.	6½"	4" x 4½"	B	488Z92	488Z94	488Z93	
	2"	1100 lb.	6½"	4" x 4½"	B	—	—	489A19	*
	2"	1100 lb.	6½"	4" x 4½"	B	—	—	489A20	†
6"	2"	800 lb.	7½"	4" x 4½"	B	400K45	400K48	400K47	*
	2"	1200 lb.	7½"	4" x 4½"	B	489C03	—	—	
	2"	1200 lb.	7½"	4½" x 6¼"	A	489D73	—	—	
	2"	1230 lb.	7¼"	4" x 4½"	B	—	3G140	—	
	2"	1250 lb.	7½"	4" x 4½"	B	—	—	489A21	*
	2"	1250 lb.	7½"	4" x 4½"	B	—	488Z97	488Z96	
	2"	1250 lb.	7½"	5" x 5½"	D	489A35	—	—	
8"	2"	900 lb.	9½"	4" x 4½"	B	1ULF2	1ULF8	1ULF5	*
	2"	1250 lb.	9½"	4" x 4½"	B	3G143	489A01	488Z99	
	2"	1250 lb.	9½"	4" x 4½"	B	—	489D44	489A23	†
	2"	1250 lb.	9½"	4" x 4½"	B	488Z98	3G142	489A22	*
	2"	1250 lb.	9½"	4½" x 6¼"	A	489A42	489A43	—	
	2"	1250 lb.	9½"	5" x 5½"	D	489A38	—	—	
Firm Rubber Tread									
8"	2"	600 lb.	9½"	4" x 4½"	B	—	3G134	—	
Firm Thermoplastic Rubber Tread									
4"	2"	300 lb.	5⅝"	4" x 4½"	B	—	—	489C76	*
5"	2"	350 lb.	6½"	4" x 4½"	B	—	—	489A12	
6"	2"	500 lb.	7½"	4" x 4½"	B	489C78	—	489C79	*
8"	2"	600 lb.	9½"	4" x 4½"	B	—	—	489A13	
Hard Nylon Tread									
4"	2"	1250 lb.	5⅝"	4" x 4½"	B	489A51	—	—	
	2"	1250 lb.	9½"	4" x 4½"	B	489A52	—	—	
Hard Phenolic Tread									
3¼"	2"	700 lb.	5⅜"	4" x 4½"	B	489A02	—	—	
4"	1½"	350 lb.	5³⁄₁₆"	3¾" x 4½"	B	—	406P69	—	
	2"	800 lb.	5⅜"	4" x 4½"	B	33H746	33H747	489D62	‡
	2"	800 lb.	5⅜"	4" x 4½"	B	489D61	—	—	
5"	1½"	450 lb.	6⁹⁄₁₆"	3¾" x 4½"	B	—	400K74	—	
	2"	900 lb.	6½"	4" x 4½"	B	33H880	33H883	—	
	2"	1000 lb.	6½"	4" x 4½"	B	—	—	489D01	*
	2"	1000 lb.	6½"	4" x 4½"	B	489C99	—	489A04	
6"	2"	900 lb.	7½"	4" x 4½"	B	33H881	33H884	—	
	2"	1200 lb.	7½"	4" x 4½"	B	—	—	489A25	*
	2"	1200 lb.	7½"	4" x 4½"	B	489D03	489D04	489A07	
	2"	1200 lb.	7½"	4½" x 6¼"	A	489A44	489A45	—	
8"	2"	900 lb.	9½"	4" x 4½"	B	33H882	33H885	—	
	2"	1250 lb.	9½"	4" x 4½"	B	—	—	489A27	†
	2"	1250 lb.	9½"	4" x 4½"	B	—	—	489A26	*
	2"	1250 lb.	9½"	4" x 4½"	B	489A09	489D46	489A10	
Hard Polypropylene Tread									
5"	2"	650 lb.	6½"	4" x 4½"	B	—	—	489C97	*
6"	2"	700 lb.	7½"	4" x 4½"	B	—	—	489C98	*
Hard Polyurethane Tread									
4"	2"	600 lb.	5⅝"	4" x 4½"	B	33J019	33J022	—	
5"	2"	660 lb.	6½"	4" x 4½"	B	33J020	33J023	489C85	*
	2"	660 lb.	6½"	4" x 4½"	B	489C84	489C83	489C86	†
	2"	660 lb.	6½"	4" x 4½"	B	489C81	489C87	489C82	*
	2"	770 lb.	7½"	4" x 4½"	B	489C92	489C95	489C90	†
	2"	770 lb.	7½"	4" x 4½"	B	—	—	489C93	*
6"	2"	770 lb.	7½"	4" x 4½"	B	489C88	489C91	489C89	*
	2"	770 lb.	7½"	4" x 4½"	B	—	—	489C94	†
	2"	1230 lb.	7¼"	4" x 4½"	B	3G141	—	—	
Extra-Hard Iron Tread									
4"	2"	700 lb.	5⅝"	4" x 4½"	B	489D60	489D42	489C45	‡
	2"	700 lb.	5⅝"	4½" x 6¼"	A	489D72	489D79	489D76	‡
5"	2"	1000 lb.	6½"	4½" x 6¼"	A	489A41	—	—	
6"	2"	1200 lb.	7½"	4" x 4½"	B	—	489D43	—	
	2"	1200 lb.	7½"	4½" x 6¼"	A	489A46	489A47	—	
	2"	1200 lb.	7½"	5" x 5½"	D	489A30	—	—	
8"	2"	1250 lb.	9½"	4" x 4½"	B	—	489D45	—	
	2"	1250 lb.	9½"	4½" x 6¼"	A	489A48	—	—	
	2"	1250 lb.	9½"	5" x 5½"	D	489A31	—	—	

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.*
*** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*



Plate A



Plate C

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Antimicrobial Corrosion- & Debris-Resistant									
Firm Thermoplastic Rubber Tread									
3"	1¼"	165 lb.	4⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMH1	1MMH2	*
	1¼"	165 lb.	4⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMH3	†
4"	1¼"	190 lb.	5⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMH4	1MMH5	*
	1¼"	190 lb.	5⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMH6	†
5"	1¼"	220 lb.	6⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMH7	1MMH8	*
	1¼"	220 lb.	6⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMH9	†
6"	1¼"	240 lb.	7⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMJ1	1MMJ2	*
	1¼"	240 lb.	7⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMJ3	†
General Purpose									
Soft Neoprene Tread									
2"	1"	125 lb.	2¹⁵⁄₁₆"	1¼" x 2⅜"	C	GA	455U07	455U08	*
3"	1"	175 lb.	4⅛"	2½" x 3⅝"	C	GA	455U09	455U10	*
Firm Thermoplastic Rubber Tread									
3"	1¼"	165 lb.	4⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMC9	1MMD1	*
	1¼"	165 lb.	4⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMD2	†
4"	1¼"	190 lb.	5⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMD3	1MMD4	*
	1¼"	190 lb.	5⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMD5	†
5"	1¼"	220 lb.	6⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMD6	1MMD7	*
	1¼"	220 lb.	6⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MMD8	†
6"	1¼"	240 lb.	7⁷⁄₁₆"	2½" x 3⅝"	C	GA	1MMD9	1MME1	*
	1¼"	240 lb.	7⁷⁄₁₆"	2½" x 3⅝"	C	GA	—	1MME2	†
High-Performance									
Soft Thermoplastic Rubber Tread									
3"	1¼"	200 lb.	4¼"	2½" x 3⅝"	C	Colson	40N392	40N393	*
Firm Thermoplastic Rubber Tread									
3"	1¼"	165 lb.	4⅛"	2½" x 3⅝"	C	GA	454Y36	454Y37	*
4"	1¼"	190 lb.	5¹³⁄₁₆"	2½" x 3⅝"	C	GA	1MML2	1MML3	†
	1¼"	190 lb.	5¹³⁄₁₆"	2½" x 3⅝"	C	GA	—	1MML4	*
5"	1¼"	220 lb.	6⅞"	2½" x 3⅝"	C	GA	1MML5	1MML6	†
	1¼"	220 lb.	6⅞"	2½" x 3⅝"	C	GA	—	1MML7	*
6"	1¼"	240 lb.	7¹³⁄₁₆"	2½" x 3⅝"	C	GA	454Y42	454Y43	*
Low-Profile Easy-Turn									
Soft Thermoplastic Rubber Tread									
3"	2"	200 lb.	4¹⁄₁₆"	2½" x 3⅝"	C	Colson	1MMB8	—	
	2"	220 lb.	4¹⁄₁₆"	2½" x 3⅝"	C	Colson	—	1MMB9	*
Soft Rubber Tread									
2"	1⅝"	200 lb.	2⅞"	2⅝" x 3"	A	Colson	40N390	40N391	*

** With total lock. † With swivel lock.*



Antimicrobial Swivel w/Total Lock No. 1MMH2



Low-Profile, Easy-Turn Swivel No. 1MMB8

GA GRAINGER APPROVED colson

Quiet-Roll Medical Plate Casters

Medical plate casters have precision ball bearings that provide smooth rolling and minimize noise that can disturb patients in medical settings. They also have thread guards that keep debris from getting into the casters' axles and damaging them. These casters mount onto equipment used in hospitals, rehabilitation centers, pharmacies, laboratories, and similar medical facilities. **Antimicrobial corrosion- and debris-resistant** casters are made from stainless steel and resist corrosion when exposed to water and chemicals. The casters' wheels are impregnated with an antimicrobial compound that prevents odor-causing, damaging microbes from growing on them. Suitable for use where high standards of cleanliness must be maintained and equipment will be washed down frequently. **General purpose** casters are suitable for a wide range of applications in hospitals and other medical facilities. **High-performance** casters have precision ball bearings and provide smoother, quieter rolling than other types of medical plate casters. They also have nylon frames that resist chemicals and corrosion and weigh less than metal frames. Suitable for use on equipment that will be moved frequently and may be exposed to chemicals. **Low-profile easy-turn** casters are used on patient lifts and other equipment that must stay low to the ground to maximize its stability. These casters have two wheels mounted on a single axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters.



Medium-Duty Swivel No. 489A96



Shock-Absorbing Medium-Duty Rigid No. 29XV44



Heavy-Duty Swivel No. 29XW11



Plate A



Plate B



Plate C

GA GRAINGER APPROVED RWM ALBION®

Maintenance-Free Plate Casters

Maintenance-free plate casters have sealed precision ball bearings in their swivel raceways and wheels that do not need to be routinely greased, which reduces time spent on maintenance and helps extend the casters' life. The casters roll quietly and require minimal force to start and keep them rolling. **Medium-duty** casters have zinc-plated steel frames and are used on carts, racks, and similar equipment that will be carrying moderately heavy to heavy loads over flat, smooth surfaces. **Shock-absorbing** casters have spoked wheels that absorb and distribute shock to prevent damage to the caster and minimize noise while rolling. **Heavy-duty** casters have zinc-plated steel frames and can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than medium-duty casters. They are suitable for carts, trucks, towline fixtures, and other equipment that will be pushed manually or towed by powered equipment in manufacturing, aerospace and automotive assembly, warehouses, and similar industrial applications.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.
Medium-Duty								
Soft Polyurethane Tread								
8"	2"	1500 lb.	10 1/8"	4 1/2" x 6 1/4"	A	GA	489A96	489C37
Soft Rubber Tread								
5"	2"	500 lb.	6 1/2"	4" x 4 1/2"	B	RWM	126M83	126M84
6"	2"	615 lb.	7 1/2"	4" x 4 1/2"	B	RWM	29XV47	29XV48
6 5/16"	2"	990 lb.	8"	4 5/16" x 5 1/2"	C	GA	490V45	—
8"	2"	750 lb.	9 1/2"	4" x 4 1/2"	B	RWM	29XV57	—
Firm Polyurethane Tread								
6"	2"	1650 lb.	8"	4 5/16" x 5 1/2"	C	GA	489D09	—
	2"	1760 lb.	7 1/2"	4" x 4 1/2"	B	GA	455T56	—
8"	2"	1200 lb.	10 1/8"	4 1/2" x 6 1/4"	A	GA	36HW77	36HW78
	2"	1500 lb.	9 1/2"	4" x 4 1/2"	B	RWM	29XV55	29XV56
	2"	1760 lb.	9 1/2"	4" x 4 1/2"	B	GA	455T57	—
Firm Thermoplastic Rubber Tread								
4"	2"	300 lb.	5 5/8"	4" x 4 1/2"	B	GA	4DE87	—
5"	2"	350 lb.	6 1/2"	4" x 4 1/2"	B	GA	4DE92	—
8"	2"	600 lb.	9 1/2"	4" x 4 1/2"	B	GA	4DU10	—
Hard Nylon Tread								
6 5/16"	2"	1650 lb.	8"	4 5/16" x 5 1/2"	C	GA	490V46	—
7 15/16"	2"	1650 lb.	9 3/8"	4 5/16" x 5 1/2"	C	GA	490V47	—
Hard Polymer Tread								
4"	2"	1250 lb.	5 5/8"	4" x 4 1/2"	B	Albion Casters	55FE35	—
Hard Polyurethane Tread								
4"	2"	1000 lb.	5 5/8"	4" x 4 1/2"	B	GA	454Y26	—
Shock-Absorbing Medium-Duty								
Firm Polyurethane Tread								
6"	2"	1000 lb.	7 1/2"	4" x 4 1/2"	B	RWM	29XV43	29XV44
8"	2"	1200 lb.	10 1/8"	4 1/2" x 6 1/2"	A	RWM	53CG71	53CG70
	2"	1200 lb.	9 1/2"	4" x 4 1/2"	B	RWM	29XV53	29XV54
Heavy-Duty								
Firm Polyurethane Tread								
8"	2"	1500 lb.	10 1/8"	4 1/2" x 6 1/2"	A	RWM	29XW13	29XW14
	2"	2000 lb.	10 1/8"	4 1/2" x 6 1/2"	A	RWM	—	53CG69
Hard Elastomer Tread								
8"	2"	1800 lb.	10 1/8"	4 1/2" x 6 1/2"	A	RWM	29XW11	29XW12



Quiet-Roll Rigid Caster No. 6JY71



Medium-Duty Swivel Caster No. 3G203



Heavy-Duty Swivel Caster w/ Brake No. 490V41



Plate A



Plate B



Plate D

GA GRAINGER APPROVED

Shock-Absorbing Plate Casters

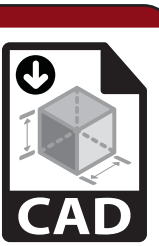
These casters have spring-loaded suspensions that absorb shocks and vibration when rolling over obstacles or rough terrain. They help prevent damage to the equipment the casters are attached to as well as any shock- or vibration-sensitive cargo that is being transported on it. Each caster's suspension can be adjusted to achieve the smoothest ride possible. **Quiet-roll** casters provide smooth, quiet rolling in areas where noise levels are a concern. **Medium-duty** casters are used on carts, trucks, racks, and trolleys that will be moving moderately heavy loads in manufacturing plants, laboratories, and computer and networking rooms. **Heavy-duty** casters can withstand heavier loads and more frequent use than medium-duty casters. They are used on racks, trolleys, and fixtures in manufacturing plants, computer and networking rooms, sound and lighting applications, and other industrial settings. **Extra-heavy-duty** casters can bear very heavy loads and withstand more shock and impact than heavy-duty casters. They are used on airport ground-support equipment, assembly line dollies, and production equipment in manufacturing plants and other industrial environments.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Quiet-Roll									
Firm Polyurethane Tread									
4"	1 1/4"	165 lb.	6 5/16"	2 7/8" x 2 7/8"	D	Precision Ball	—	—	6JY69
6"	1 5/8"	550 lb.	9 1/16"	3 3/4" x 3 3/4"	D		—	6JY71	6JY75
8"	1 5/8"	550 lb.	10 3/4"	3 3/4" x 3 3/4"	D		—	6JY79	6JY83
Medium-Duty									
Soft Rubber Tread									
3 15/16"	1 9/16"	440 lb.	6 1/16"		D	Precision Ball	490W26	—	—
6"	2"	410 lb.	8 1/2"	4" x 4 1/2"	B	Roller	3G203	488U05	—
Firm Polyurethane Tread									
6"	2"	500 lb.	8 1/2"	4" x 4 1/2"	B	Roller	487H26	454Y23	—
8"	2"	500 lb.	10 1/2"	4" x 4 1/2"	B		483N51	483N50	—
Heavy-Duty									
Firm Polyurethane Tread									
6"	2"	1100 lb.	9 1/2"	4 1/2" x 6 1/4"	A	Precision Ball	483N41	—	—
8"	2"	1760 lb.	10 7/16"	4 1/2" x 6 1/4"	A		—	—	490V41
Extra-Heavy-Duty									
Firm Polyurethane Tread									
6"	3"	1630 lb.	11 1/4"	5 1/4" x 7 1/4"	A	Precision Ball	1VHV6	1VHV7	—
8"	3"	1630 lb.	12 1/4"	5 1/4" x 7 1/4"	A		1VHV8	1VHV9	—

CAD DRAWINGS Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**



See page 1219 for tread info.


Plate A


Plate B


Plate C


Plate D

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Medium-Duty										
6⅛"	1⅛"	200 lb.	7½"	4" x 4½"	B	Centipede	GA	1ULG7	1ULG9	1ULG8 *
	1⅛"	200 lb.	7½"	2¾" x 3⅝"	C	Centipede	GA	1ULH1	1ULH3	1ULH2 *
6⅝"	1⅛"	200 lb.	7½"	2¾" x 3¾"	C	Sawtooth	GA	32J680	—	—
7⅛"	2"	165 lb.	9¼"	4⅝" x 5½"	C	Ribbed	GA	454N13	454N15	454N14 *
8"	2"	210 lb.	10⅛"	4" x 4½"	B	Diamond	GA	455U48	455U49	—
	2⅝"	220 lb.	10"	4⅝" x 5½"	C	Centipede	GA	454N65	454N66	—
8¹¹⁄₁₆"	2⅝"	220 lb.	10"	4⅝" x 5½"	C	Ribbed	GA	483N28	—	483N29 *
	2⅝"	220 lb.	10"	4⅝" x 5½"	C	Ribbed	GA	—	—	490W25 *
8¾"	2½"	80 lb.	10⅛"	4" x 4½"	B	Sawtooth	GA	—	—	32J673
	2½"	220 lb.	10⅛"	4" x 4½"	B	Sawtooth	GA	32J672	32J674	—
9"	2½"	300 lb.	10"	4" x 4½"	B	Sawtooth	GA	1ULH4	1ULH6	1ULH5
	3"	220 lb.	10"	4" x 4½"	B	Sawtooth	GA	—	3G144	5VP72
	3"	295 lb.	11"	4" x 4½"	B	Sawtooth	GA	3G147	—	5VP73
10"	3¾"	350 lb.	12½"	4" x 4½"	B	Sawtooth	GA	3G149	3G148	—
10¼"	3⅜"	330 lb.	12⅛"	4¾" x 8¹¹⁄₁₆"	D	Diamond	GA	—	489A98	—
	3⅜"	330 lb.	12⅛"	6⅞" x 6⅞"	D	Diamond	GA	489C01	—	—
	3⅜"	550 lb.	12⅛"	6⅞" x 6⅞"	D	Ribbed	GA	—	—	454Y04 *
	3⅜"	550 lb.	12⅛"	6⅞" x 6⅞"	D	Diamond	GA	22N203	—	22N205 *
	3⅜"	550 lb.	12⅛"	4¾" x 8¹¹⁄₁₆"	D	Diamond	GA	—	22N204	—
10⅝"	3¼"	350 lb.	11⅞"	4" x 4½"	B	Sawtooth	GA	1ULH7	1ULH8	—
	3½"	350 lb.	12⅛"	4" x 4½"	B	Sawtooth	GA	32J675	32J676	—
Extra-Heavy-Duty										
8"	2½"	330 lb.	10⅝"	4½" x 6½"	A	Sawtooth	Hamilton	—	36T702	36T698 †
	3"	330 lb.	10⅝"	4½" x 6½"	A	Sawtooth	Hamilton	36T705	—	—
10"	3"	480 lb.	12½"	4½" x 6½"	A	Sawtooth	Hamilton	—	—	36T699 †
	3½"	480 lb.	12½"	4½" x 6½"	A	Sawtooth	Hamilton	36T706	36T703	—
12"	4⅛"	625 lb.	15½"	6⅛" x 7½"	D	Sawtooth	Hamilton	36T707	36T704	36T701 †
	4⅛"	1210 lb.	14¹⁄₁₆"	6⅝" x 7⅞"	D	Diamond	GA	—	454N69	—
15¾"	4"	770 lb.	18½"	6⅝" x 7⅞"	D	Diamond	GA	—	454M98	—
16"	4⅞"	960 lb.	18¾"	6⅛" x 7½"	D	Sawtooth	Hamilton	5VG81	5VF83	—
	4⅞"	1220 lb.	18¾"	6⅛" x 7½"	D	Sawtooth	Hamilton	5VG83	5VF84	—

** With total lock. † With four-position swivel lock. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*


Ribbed Tread, Rigid No. 454N15


Sawtooth Tread, Swivel No. 36T707


Centipede Tread, Swivel w/ Brake No. 1ULG8

GA GRAINGER APPROVED HAMILTON

Pneumatic-Wheel Plate Casters

Pneumatic-wheel plate casters have air-filled wheels that absorb shock and vibration and reduce noise as they roll. They are suitable for moving fragile or vibration-sensitive loads on equipment that is traveling over rough or uneven surfaces in indoor and outdoor areas. All swivel casters have a double-ball bearing raceway. Casters with a brake have an over-the-wheel strap brake. **Medium-duty** casters are used on carts, trucks, and equipment in warehouses, transportation facilities, lawn and garden centers, and hospitality sites. **Extra-heavy-duty** casters bear heavier loads, withstand rougher terrain, and absorb more shock and impact than medium-duty casters. They are used on heavy carts, trucks, and equipment in towing applications, such as aerospace ground support, airport baggage trolleys, and manufacturing and maintenance operations.

GA GRAINGER APPROVED GREENLEE

Semipneumatic-Wheel Plate Casters

These casters have semipneumatic wheels that absorb shock and vibration and will not go flat if they are punctured. They are used on carts, trucks, and similar equipment that will be moving fragile or vibration-sensitive loads over rough or uneven surfaces in areas with sharp debris, such as warehouses, transportation facilities, lawn and garden centers, and hospitality sites.


Plate B


Plate D


Swivel Caster No. 404L09

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.
6¼"	1⅞"	200 lb.	7⅜"	4" x 4½"	B	Ribbed	GA	3G151	3G150
	1⅞"	200 lb.	7⅜"	5" x 5½"	D	Ribbed	GA	404L09	3G116
8"	2½"	350 lb.	10"	5" x 5½"	D	Ribbed	GA	3G119	3G118
10"	3"	650 lb.	12"	4" x 4½"	B	Ribbed	Greenlee	35MM23	35MM22

GA GRAINGER APPROVED MARASTAR HAMILTON

Flat-Free-Wheel Plate Casters

Flat-free-wheel plate casters have solid wheels that absorb more shock and vibration than semipneumatic wheels and will not go flat if punctured. They are suitable for moving fragile or vibration-sensitive loads and for traveling over rough or uneven surfaces in areas with sharp debris. **Medium-duty** casters can bear moderately heavy loads and are used on carts, trucks, and similar equipment in warehouses, transportation facilities, lawn and garden centers, and hospitality sites. **Heavy-duty** casters can bear heavy loads and are used on heavy carts or trucks in warehouses, transportation facilities, and manufacturing sites. **Extra-heavy-duty** casters can bear very heavy loads and are used on heavy carts, trucks, and equipment in towing applications for aerospace ground support, shipbuilding, automotive manufacturing, and maintenance operations.


Plate B


Plate C


Plate D


Rigid Caster No. 38ER62

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Medium-Duty										
Soft Rubber Tread										
6"	2"	250 lb.	7¼"	4" x 4½"	B	Centipede	GA	437V23	437V25	437V24
8"	2"	280 lb.	9½"	4" x 4½"	B	Centipede	GA	—	426A87	426A86
	2"	400 lb.	9½"	4" x 4½"	B	Centipede	GA	426A85	—	—
10¼"	3⅜"	440 lb.	12⅛"	6⅞" x 6⅞"	D	Smooth	GA	22N206	22N207	22N208 *
Soft Polyurethane Tread										
8"	3"	275 lb.	9⅞"	4" x 4½"	B	Sawtooth	Marastar	38ER63	38ER62	—
8½"	2⅞"	275 lb.	9⅞"	4½" x 4"	B	Sawtooth	GA	53CM44	53CM43	—
10"	3¼"	300 lb.	11⅞"	4" x 4½"	B	Sawtooth	Marastar	38ER65	38ER64	—
10¼"	3¼"	300 lb.	11⅞"	4½" x 4"	B	Sawtooth	GA	53CM46	53CM45	—
Heavy-Duty										
Soft Rubber Tread										
7¹⁵⁄₁₆"	2"	770 lb.	9⅝"	4⅝" x 5½"	C	Smooth	GA	487G18	—	487G19 *
9¹³⁄₁₆"	2⅜"	770 lb.	11⅜"	6¹³⁄₁₆" x 6¹³⁄₁₆"	D	Smooth	GA	—	—	487G16 *
	3⅜"	990 lb.	11⅜"	6⅞" x 6⅞"	D	Ribbed	GA	22N199	22N201	22N202 *
Extra-Heavy-Duty										
Soft Rubber Tread										
16"	4⅞"	960 lb.	18¾"	6⅛" x 7½"	D	Sawtooth	Hamilton	—	—	35W143
	5⅛"	2900 lb.	18½"	6⅛" x 7½"	D	Ribbed	Hamilton	6AZP3	6AZP5	6AZP4 ‡

** With total lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

Leveling Plate Casters

GA GRAINGER APPROVED

Leveling plate casters are used on equipment that will be moved often but must stay stationary when in use. Each caster has a leveling pad that can be raised to allow it to roll and lowered to prevent it from rolling, and a thumbwheel adjusts the pad's height to level the equipment. All are swivel casters that can rotate 360°, and all have impact-resistant nylon wheels. **General purpose** casters are used on furniture and equipment in high-automation manufacturing, medical, retail, and laboratory settings. **High-adjustability extended-stem** casters have long leveling stems and can be adjusted to a greater range of heights than other leveling plate casters to accommodate very uneven floors or raise furniture or equipment high off the ground in areas such as food-processing plants, medical settings, pharmaceutical facilities, packaging and conveying operations, and laboratories. **Quick-engage pedal-style** casters have a foot pedal that users step on to quickly start or stop the casters from rolling. They are used on reconfigurable machinery and production lines in heavy manufacturing and industrial applications.

Note: For safety, working load cap. for 4-caster installations should not exceed 2 x individual caster load rating. Example: Working load cap. is 1100 lb. for 4 of No. 24WK16 (load rating is 550 lb. each).


Plate D


General Purpose
No. 24WK16


High-Adjustablilty Extended-Stem
No. 34RU55


Quick-Engage Pedal-Style
No. 489A92

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Maximum Leveling Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
General Purpose							
2"	1"	275 lb.	3¼"	3¹¹⁄₁₆"	2⅞" x 2⅞"	D	**34RU52**
	1"	550 lb.	3¼"	3⅞"	2⅞" x 2⅞"	D	**24WK16**
2½"	1⅛"	1100 lb.	4⅛"	4⅜"	—	D	**489A81**
	1¼"	550 lb.	4³⁄₃₂"	4¹¹⁄₁₆"	3⅜" x 3⅜"	D	**34RU53**
2⅞"	1¼"	2200 lb.	4¹³⁄₁₆"	5¼"	3¾" x 3¾"	D	**454N23**
3"	1⅜"	880 lb.	4¾"	5³⁄₁₆"	3¾" x 3¾"	D	**34RU54**
3½"	2¼"	4400 lb.	5⅛"	5¹⁵⁄₁₆"	—	D	**454N24**
High-Adjustability Extended-Stem							
2"	1"	220 lb.	2⅞"	4¹³⁄₁₆"	2⅞" x 2⅞"	D	**34RU55**
3"	2¼"	1100 lb.	4¹³⁄₃₂"	6¾"	3¾" x 3¾"	D	**34RU57**
Quick-Engage Pedal-Style							
3"	1¼"	440 lb.	4¹¹⁄₁₆"	4¾"	—	D	**489A92**


V-Groove Swivel Caster
No. 1NWB2


Single-Flange Rigid Caster
No. 5VG40


Dual-Flange Rigid Caster
No. 5VG05


Plate A


Plate B


Plate C


Plate D

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.
V-Groove									
Firm Polyurethane Tread									
4"	2"	350 lb.	5⅝"	4" x 4½"	B	Roller Bearings	GA	—	**1NWC9**
6"	2"	450 lb.	7½"	4" x 4½"	A	Roller Bearings	GA	—	**1NWD4**
Hard Nylon Tread									
5"	2"	1540 lb.	6½"	4" x 4½"	B	Precision Ball Bearings	GA	**454M81**	—
6"	1⅜"	880 lb.	7½"	4" x 4½"	B	Precision Ball Bearings	GA	**454M82**	—
Extra-Hard Iron Tread									
4"	1½"	800 lb.	5⅝"	4" x 4½"	B	Roller Bearings	GA	**1NWB2**	**1NWB3**
	2"	700 lb.	5⅝"	4" x 4½"	B	Roller Bearings	GA	**490V85**	**490V66**
	2"	800 lb.	5⅝"	4" x 4½"	B	Roller Bearings	GA	**1NWC2**	**1NWC3**
	2"	800 lb.	5⅝"	4½" x 6¼"	A	Roller Bearings	GA	**1NWD5**	**1NWD6**
5"	2"	800 lb.	6½"	4½" x 6¼"	A	Roller Bearings	GA	—	**489C14**
	2"	900 lb.	6½"	4" x 4½"	B	Roller Bearings	GA	—	**1NWC5**
	2"	1000 lb.	6½"	4" x 4½"	B	Roller Bearings	GA	**490V86**	—
6"	2"	800 lb.	6½"	4½" x 6¼"	B	Roller Bearings	GA	**490V87**	—
	2"	1000 lb.	7½"	4" x 4½"	B	Roller Bearings	GA	**1NWC6**	**1NWC7**
	2"	1000 lb.	7½"	4½" x 6¼"	A	Roller Bearings	GA	—	**1NWE1**
	2"	1000 lb.	7½"	5" x 5½"	D	Roller Bearings	GA	**489C12**	**489C13**
	2"	1000 lb.	8"	4½" x 6¼"	A	Roller Bearings	GA	**489C16**	—
	2"	1200 lb.	7½"	4" x 4½"	B	Roller Bearings	GA	—	**490V68**
	2"	1200 lb.	7½"	5" x 5½"	D	Roller Bearings	GA	—	**1NWB5**
	2½"	2000 lb.	7½"	4½" x 6¼"	A	Roller Bearings	GA	—	**1NWE3**
	2½"	2500 lb.	8"	5¼" x 7¼"	A	Roller Bearings	GA	—	**1NWE7**
8"	2"	1200 lb.	10½"	4½" x 6¼"	A	Roller Bearings	GA	—	**489C17**
	2½"	2000 lb.	10⁵⁄₁₆"	4½" x 6¼"	A	Roller Bearings	GA	—	**1NWE5**
10"	2½"	3000 lb.	12½"	5¼" x 7¼"	A	Roller Bearings	GA	—	**1NWF2**
Extra-Hard Stainless Steel Tread									
4"	2"	800 lb.	6"	4" x 4½"	B	Precision Ball Bearings	GA	—	**1UBL6**
6"	2"	800 lb.	7½"	3¾" x 4½"	B	Precision Ball Bearings	Hamilton	—	**1UBL8**
Extra-Hard Steel Tread									
5"	2"	1250 lb.	6½"	4" x 4½"	B	Precision Ball Bearings	GA	—	**454M85**
6"	1⅜"	1760 lb.	7¾"	4⅝" x 5⁹⁄₁₆"	C	Precision Ball Bearings	GA	**454M84**	—
	1⅜"	1760 lb.	7¾"	4½" x 6¼"	A	Precision Ball Bearings	GA	—	**455T91**
	2¾"	2500 lb.	8"	5¼" x 7¼"	A	Roller Bearings	Hamilton	—	**23DA06**
	3"	4500 lb.	8½"	6½" x 7½"	B	Roller Bearings	Hamilton	**52YU11**	**52YU12**
8"	1⅜"	1650 lb.	9⅝"	4⅝" x 5⁹⁄₁₆"	C	Precision Ball Bearings	GA	—	**489A50**
	1⅜"	2000 lb.	9⅝"	4⅝" x 5⁹⁄₁₆"	C	Precision Ball Bearings	GA	**454M83**	—
	3"	5000 lb.	10½"	6½" x 7½"	B	Roller Bearings	Hamilton	**52YU13**	**52YU14**
	4"	10,000 lb.	10½"	6½" x 7½"	B	Tapered Roller Bearings	Hamilton	**52YU15**	**52YU16**
10"	2½"	3000 lb.	12½"	5¼" x 7¼"	A	Roller Bearings	Hamilton	**52YU09**	**52YU10**
Single-Flange									
Extra-Hard Iron Tread									
3½"	1⅞"	1400 lb.	5⅜"	4½" x 6½"	A	Roller Bearings	Hamilton	—	**5VG40**
4¹⁵⁄₁₆"	2⅛"	1500 lb.	6⅛"	4½" x 6½"	A	Roller Bearings	Hamilton	—	**5VG41**
6⅛"	2"	2000 lb.	8"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG08**
8"	3"	3000 lb.	9½"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG09**
Extra-Hard Steel Tread									
4½"	2½"	3000 lb.	7¼"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG04**
5"	2¾"	4300 lb.	8"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG06**
Dual-Flange									
Extra-Hard Iron Tread									
6"	3"	2500 lb.	8"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG07**
Extra-Hard Steel Tread									
5"	3"	4200 lb.	8"	5½" x 7½"	D	Roller Bearings	Hamilton	—	**5VG05**

GA GRAINGER APPROVED

HAMILTON

Track-Wheel Plate Casters

Track-wheel plate casters have wheels that fit into compatible steel tracks or rails. They mount to containers, racks, carts, and other equipment and provide precise control over movement and alignment when moving the equipment between two locations, such as from one machine to another, into and out of an oven, or between points on an assembly line. All swivel casters have double-ball hardened raceways. **V-groove** casters have wheels with a V-shaped tread that mates with a compatible angle-iron track. They have flat edges and can also roll on flat surfaces. **Single-flange** casters have wheels with one flange that guides them along a flat track or rail. They create less friction between the wheel and the track or rail than dual-flange track-wheel casters. **Dual-flange** have wheels with two flanges that guide them along a flat track or rail. They maintain their alignment better than single-flange track wheels in applications with impact loads, debris, or obstructions.

GA GRAINGER APPROVED

Inverted-Mount Plate Casters

Inverted-mount plate casters are installed with their wheels pointing up to create a low-friction surface for moving bulky and heavy loads. Groups of these casters are mounted in floor recesses in dock areas, airport cargo-loading areas, or aircraft to reduce the effort it takes to move and manuever large cargo containers on the floor. They can also be mounted on conveyors or portable dollies and fixtures that are used for handling large containers to provide multidirectional movement in transition, infeed, or outfeed sections. All are swivel casters and can rotate 360°, and all have precision ball bearings. **5VF59** has a **foot guard** that prevents toes and feet from slipping into the caster's mounting recesses and causing falls or injuries.


Plate A


Plate D


Plate F


Plate H


General Purpose
No. 4W782


With Foot Guard
No. 5VF59

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
General Purpose						
2¼"	1⅜"	440 lb.	3¾"	2¾" x 4⅜"	A	**455T85**
	1½"	450 lb.	3¾"	3⅛" x 4⅞"	H	**1F146**
2⁵⁄₁₆"	1⅜"	450 lb.	3¾"	2" x 2¾"	F	**4W782**
2¾"	1½"	450 lb.	4⅛"	3⅛" x 4⅞"	H	**1F147**
With Foot Guard						
2¼"	1⅜"	440 lb.	3¾"	3⅛" x 4⅛"	D	**5VF59**

GA GRAINGER APPROVED

Threaded Stem Casters

Threaded stem casters screw into a hole, bracket, insert, or socket and are typically used to add casters on equipment where there is not enough room to attach a plate caster's mounting plate. All are swivel casters and can rotate 360°. **General purpose** casters are used on carts, furniture, storage cabinets, storage bins, display stands, appliances, retail fixtures, and other equipment in a wide variety of settings. **Extended-stem casters for ladders** are used on ladders, platforms, and similar equipment in areas such as warehouses, stockrooms, and loading docks. Each caster has an extra-long threaded stem with a spring-loaded assembly that allows the equipment to lower to keep it stationary when it's in use and raises the equipment when it's not in use so it can roll.

For information on selecting casters, see page 1194.



General Purpose
Swivel w/Brake
No. 490W37



Extended-Stem
No. 400K80

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
General Purpose						
Thermoplastic Rubber Tread						
3"	⅞"	110 lb.	3½"	3/18"-16 x 1½"	—	49H591
	1¼"	210 lb.	3 13/16"	⅜"-16 x 1"	32J866	—
	1¼"	210 lb.	3 13/16"	½"-13 x 1½"	32J890	—
4"	1¼"	300 lb.	4 13/16"	⅜"-16 x 1"	32J867	—
5"	1¼"	325 lb.	5 13/16"	½"-13 x 1½"	32J892	—
	1¼"	325 lb.	6"	½"-13 x 1½"	20TM56	—
Rubber Tread						
3"	1"	100 lb.	3⅝"	⅜"-16 x 1½"	32J787	—
	1¼"	150 lb.	3 13/16"	⅜"-16 x 1"	32J860	—
	1¼"	175 lb.	4⅛"	½"-13 x 1½"	—	489C42
3½"	1¼"	250 lb.	4 9/16"	½"-13 x ¾"	488U06	—
4"	⅞"	115 lb.	4 13/16"	7/16" x 1½"	32J986	—
	1"	130 lb.	4⅞"	7/16"-14 x 1½"	487G61	—
	1¼"	170 lb.	4 13/16"	⅜"-16 x 1"	32J861	—
	1¼"	170 lb.	4 13/16"	7/16"-14 x 1½"	32J967	—
	1¼"	170 lb.	4 13/16"	½"-13 x 1"	32J873	—
	1¼"	170 lb.	4 13/16"	½"-13 x 1½"	32J970	—
	1¼"	240 lb.	5"	½"-13 x 2⅜"	—	489C28
	1¼"	300 lb.	5"	½"-13 x 1½"	—	490W37
5"	1"	125 lb.	5 13/16"	⅜"-16 x 1½"	32J789	—
	1"	125 lb.	5 13/16"	½"-13 x 1½"	32J953	—
	1¼"	200 lb.	5 13/16"	⅜"-16 x 1"	32J862	—
	1¼"	200 lb.	5 13/16"	7/16"-14 x 1½"	32J968	—
	1¼"	200 lb.	5 13/16"	½"-13 x 1½"	32J971	—
	1¼"	325 lb.	6 1/16"	½"-13 x 1½"	—	490W38
6"	1¼"	280 lb.	7⅛"	⅝"-11 x 1¼"	32J978	—
Polyurethane Tread						
3"	⅞"	120 lb.	3½"	⅜"-16 x 1"	487G54	487H16
	1¼"	210 lb.	3 13/16"	⅜"-16 x 1"	32J869	—
	1¼"	210 lb.	3 13/16"	7/16"-14 x 1½"	32J887	—
	1¼"	210 lb.	3 13/16"	½"-13 x 1½"	32J893	—
	1¼"	210 lb.	3 13/16"	½"-13 x 1"	32J878	—
4"	1"	130 lb.	4⅞"	5/16"-18 x 1"	487H20	487H19
	1"	130 lb.	4⅞"	⅜"-16 x 1"	487H21	487H22
	1"	150 lb.	4 13/16"	⅜"-16 x 1½"	32J806	—
	1"	150 lb.	4 13/16"	½"-13 x 1½"	32J803	—
	1¼"	275 lb.	4 13/16"	⅜"-16 x 1"	32J870	—
	1¼"	275 lb.	4 13/16"	7/16"-14 x 1½"	32J888	—
	1¼"	275 lb.	4 13/16"	½"-13 x ¾"	32J885	—
	1¼"	275 lb.	4 13/16"	½"-13 x 1"	32J879	—
	1¼"	275 lb.	4 13/16"	½"-13 x 1½"	32J894	—
5"	1¼"	300 lb.	5 13/16"	⅜"-16 x 1"	32J871	—
	1¼"	300 lb.	5 13/16"	½"-13 x 1½"	32J895	—
	1¼"	300 lb.	5 13/16"	½"-13 x 1"	32J880	—
Polyolefin Tread						
3"	1"	125 lb.	3⅝"	⅜"-16 x 1½"	20TM42	—
	1"	125 lb.	3⅝"	7/16"-14 x 1½"	32J959	—
	1¼"	210 lb.	3 13/16"	⅜"-16 x 1"	32J863	—
	1¼"	210 lb.	3 13/16"	7/16"-14 x 1½"	32J988	—
	1¼"	210 lb.	3 13/16"	½"-13 x 1½"	429H12	—
	1¼"	210 lb.	3 13/16"	½"-13 x 1"	32J875	—
	1¾"	350 lb.	3¾"	½"-13 x ¾"	32J896	—
	1¾"	350 lb.	3⅞"	¾"-10 x 1"	32J897	—
4"	1"	130 lb.	4⅞"	7/16"-14 x 1½"	487G57	—
	1"	150 lb.	4 13/16"	⅜"-16 x 1½"	20TM46	—
	1"	150 lb.	4 13/16"	½"-13 x 1½"	32J964	—
	1¼"	275 lb.	4 13/16"	⅜"-16 x 1"	32J864	—
	1¼"	275 lb.	4 13/16"	7/16"-14 x 1½"	32J989	—
	1¼"	275 lb.	4 13/16"	½"-13 x 1½"	32J974	—
	1¼"	275 lb.	4 13/16"	½"-13 x ¾"	32J882	—
	1¼"	275 lb.	4 13/16"	½"-13 x 1"	32J876	—
	1¼"	275 lb.	5"	⅜"-16 x 1½"	20TM48	—
5"	1"	150 lb.	5 13/16"	⅜"-16 x 1½"	32J792	—
	1"	150 lb.	5 13/16"	½"-13 x 1½"	32J965	—
	1¼"	300 lb.	5 13/16"	⅜"-16 x 1"	32J865	—
	1¼"	300 lb.	5 13/16"	7/16"-14 x 1½"	32J972	—
	1¼"	300 lb.	5 13/16"	½"-13 x 1"	32J877	—
	1¼"	300 lb.	5 13/16"	½"-13 x 1½"	32J975	—
	1¼"	300 lb.	5 13/16"	½"-13 x ¾"	32J883	—
Phenolic Tread						
2"	1⅛"	200 lb.	2 13/16"	½"-13 x 1½"	—	19MP15
3"	1¾"	350 lb.	3¾"	½"-13 x 2½"	—	32J976
Nylon Tread						
3"	1¾"	500 lb.	3 15/16"	½"-13 x 1½"	416P08	—
Extended-Stem for Ladders						
Rubber Tread						
3"	⅞"	100 lb.	3 23/32"	5/16"-18 x 4 49/64"	400K80	—
Polyolefin Tread						
2"	⅞"	75 lb.	2½"	5/16"-18 x 4 25/32"	32J912	—
3"	⅞"	100 lb.	3 1/16"	5/16"-18 x 4 25/32"	416P14	—



No. 454Y30

GA GRAINGER APPROVED

Maintenance-Free Expanding Stem Casters

Expanding stem casters can be installed into structural tubing with a range of diameters and don't need to be secured with bolts or pins. Each caster has a knurled nut that is tightened to expand the rubber sleeve on the caster's stem until it is large enough to firmly grip the inside of the tubing. The casters have sealed precision ball bearings that do not need to be routinely greased, which minimizes maintenance and extends the casters' life. Their lightweight nylon frames resist chemicals and corrosion, and they have thread guards that prevent dirt and debris from entering the casters and damaging them. Suitable for carts, racks, and equipment in medical facilities, pharmacies, laboratories, food-service areas, and other areas where the equipment will be moved frequently and may be exposed to water, chemicals, and debris. All are swivel casters that can rotate 360°, and all have a thermoplastic rubber tread.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	Item No.
4 15/16"	1¼"	240 lb.	6 7/16"	63/64" x 2 35/64"	454Y31
5"	1¼"	240 lb.	6 7/16"	½"-13 x 2 35/64"	454Y30



Ball Wheel
No. 19YX24



Single Wheel
No. 19YX28

GA GRAINGER APPROVED

Grip-Neck Stem Casters

Grip-neck stem casters install into a specially designed socket that grips the stem head for a secure hold. They are used on office furniture, cabinetry, retail displays, and other light-duty equipment made from wood or metal tubing that has these special sockets. **Ball-wheel** casters have a spherical wheel covered by a hood that hides dirt and scuffs. **Single-wheel** casters each have one wheel.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	Frame Finish	Item No.
Ball Wheel Grip-Neck Stem Casters						
Polyolefin Tread						
2"	1¾"	75 lb.	2 37/64"	5/16" x 1½"	Polished Brass	19YX24
	1¾"	75 lb.	2 37/64"	5/16" x 1½"	Black Oxide	19YX25
	2"	80 lb.	2⅝"	5/16" x 1½"	Bright Brass	454N46
	2"	80 lb.	2⅝"	5/16" x 1½"	Chrome Plated	454N47
Single Wheel Grip-Neck Stem Casters						
Rubber Tread						
2"	⅞"	75 lb.	2½"	5/16" x 1½"	Brass Plated	3A776
	⅞"	75 lb.	2½"	5/16" x 1½"	Nickel Plated	19YX28
2½"	⅝"	75 lb.	3"	5/16" x 1½"	Antique Copper Plated	2G002
	⅞"	75 lb.	3 1/16"	5/16" x 1½"	Antique Brass	429H15



General Purpose
No. 490W49



Wall-Protecting
No. 483N56

GA GRAINGER APPROVED

Friction-Ring Stem Casters

Each of these casters has a stem that presses into an appropriately sized hole or socket in tubes, pipes, wood, or brackets on furniture and equipment. A spring ring at the end of the stem expands to hold the caster in place once it's installed. The casters require few or no tools for installation and are suitable for applications where casters need to be replaced frequently. All are swivel casters that can rotate 360°. **General purpose** casters are used on carts, furniture, storage cabinets, storage bins, display stands, retail fixtures, and other equipment in a wide variety of settings. **Wall-protecting** casters have rubber rings that protect walls and other surfaces from damage if the casters collide with them.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
General Purpose							
Thermoplastic Rubber Tread							
2"	7/8"	75 lb.	2 1/2"	7/16" x 1 3/8"	Plain Bearings	400K81	—
3"	1 1/4"	210 lb.	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	32J856	—
Rubber Tread							
2"	7/8"	90 lb.	2 5/8"	7/16" x 7/8"	Plain Bearings	490W47	490W48
	7/8"	90 lb.	2 5/8"	7/16" x 1 7/16"	Plain Bearings	490W45	490W46
2 1/2"	7/8"	75 lb.	3-1/6"	7/16" x 7/8"	Plain Bearings	416P12	—
	7/8"	95 lb.	3 1/8"	7/16" x 1 7/16"	Plain Bearings	490W49	490W50
3"	7/8"	120 lb.	3 1/2"	7/16" x 7/8"	Plain Bearings	490W51	—
	1 1/4"	150 lb.	3 13/16"	7/16" x 1 3/8"	Plain Bearings	32J850	—
	1 1/4"	175 lb.	3 5/8"	7/16" x 1 7/8"	Plain Bearings	1G009	—
	1 1/4"	200 lb.	4 1/4"	27/32" x 2 7/32"	Delrin Bearings	5GPL9	5GPL8
	1 1/4"	200 lb.	4 1/8"	7/16" x 1 7/16"	Precision Ball Bearings	—	490W35
4"	1"	115 lb.	4 13/16"	7/16" x 1 29/32"	Plain Bearings	32J794	—
	1"	115 lb.	4 13/16"	7/16" x 1 3/8"	Plain Bearings	32J993	—
	1"	115 lb.	4 13/16"	13/16" x 1 3/4"	Plain Bearings	32J938	—
	1 1/4"	170 lb.	4 13/16"	7/16" x 1 3/8"	Plain Bearings	32J851	—
	1 1/4"	240 lb.	5"	7/16" x 1 7/16"	Delrin Bearings	—	489C41
	1 1/4"	300 lb.	5"	7/16" x 1 7/16"	Precision Ball Bearings	490W36	—
5"	1"	125 lb.	5 13/16"	7/16" x 1 29/32"	Plain Bearings	32J795	—
	1"	125 lb.	5 13/16"	7/16" x 1 3/8"	Plain Bearings	32J994	—
	1 1/4"	200 lb.	5 13/16"	7/16" x 1 3/8"	Plain Bearings	32J852	—
	1 1/4"	280 lb.	6"	27/32" x 2 5/16"	Delrin Bearings	1ZTJ1	—
	1 1/4"	280 lb.	6"	27/32" x 2 7/32"	Delrin Bearings	—	1ZTJ2
Polyurethane Tread							
3"	7/8"	120 lb.	3 1/2"	7/16" x 1 7/16"	Plain Bearings	487G53	—
	1"	125 lb.	3 5/8"	7/16" x 1 29/32"	Plain Bearings	32J808	—
	1"	125 lb.	3 5/8"	7/16" x 1 3/8"	Plain Bearings	32J799	—
	1"	135 lb.	3 5/8"	7/16" x 1 3/8"	Precision Ball Bearings	400K82	—
	1 1/4"	210 lb.	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	32J857	—
4"	1"	130 lb.	4 7/8"	7/16" x 7/8"	Plain Bearings	487H17	487H18
	1"	140 lb.	4 13/16"	7/16" x 1 3/8"	Plain Bearings	32J801	—
	1"	150 lb.	4 3/4"	7/16" x 1 29/32"	Plain Bearings	20TM18	—
	1 1/4"	275 lb.	5"	7/16" x 1 7/16"	Delrin Bearings	32J858	—
5"	1"	145 lb.	5 13/16"	7/16" x 1 29/32"	Plain Bearings	32J810	—
	1 1/4"	300 lb.	6 1/16"	7/8" x 2"	Precision Ball Bearings	454Y14	—
	1 1/4"	300 lb.	5 13/16"	15/32" x 1 3/8"	Delrin Bearings	32J859	—
Polyolefin Tread							
3"	1"	125 lb.	3 5/8"	7/16" x 1 29/32"	Plain Bearings	32J796	—
	1 1/4"	210 lb.	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	32J853	—
4"	1"	130 lb.	4 7/8"	7/16" x 1 7/16"	Plain Bearings	487G56	—
	1"	150 lb.	4 13/16"	7/16" x 1 3/8"	Plain Bearings	32J956	—
	1 1/4"	275 lb.	4 13/16"	7/16" x 1 3/8"	Delrin Bearings	32J854	—
5"	1"	150 lb.	5 13/16"	7/16" x 1 29/32"	Plain Bearings	32J798	—
	1 1/4"	300 lb.	5 13/16"	7/16" x 1 3/8"	Delrin Bearings	32J855	—
Wall-Protecting							
Polyurethane Tread							
5"	1 1/4"	300 lb.	6 1/16"	7/8" x 2"	Delrin Bearings	483N56	—



Round Stem
No. 1XGJ6



Round Stem
w/ Total Lock
No. 487G62



Square Stem
No. 32J899

GA GRAINGER APPROVED

Bolt-In Stem Casters

These casters each have a round or square stem that fits into structural framing made of metal tubing or angle iron. The shape and size of the stem determines the type of framing the caster will fit into, and the caster is held in place with a bolt or pin that is installed into cross-drilled mounting holes in the framing and the caster's stem. Casters with a **round stem** fit into round metal tubing on light-duty scaffolding, work platforms, workbenches, and tables. Casters with a **square stem** fit into square or octagonal metal tubing or angle iron on carts, racks, and similar equipment.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Stem Dia.	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Round Stem							
Rubber Tread							
5"	1 1/4"	150 lb.	6 1/16"	1"	Delrin Bearings	—	487G62 *
6"	2"	500 lb.	7 11/32"	1 3/8"	Roller Bearings	—	5VP46 *
8"	2"	500 lb.	9"	1 3/8"	Roller Bearings	—	5VP47 *
Polyurethane Tread							
10"	3"	1350 lb.	12 1/4"	1 3/8"	Roller Bearings	—	45JR96
Nythane Tread							
5"	1 3/4"	1320 lb.	6 15/16"	1 1/2"	Plain Bearings	1XGJ6	—
6"	1 3/4"	1320 lb.	7 1/2"	1 1/2"	Plain Bearings	1XGJ7	—
8"	1 3/4"	1320 lb.	9 1/2"	1 1/2"	Plain Bearings	1XGJ8	—
Square Stem							
Rubber Tread							
3"	1"	100 lb.	3 5/8"	3/4"	Plain Bearings	32J903	—
4"	1"	115 lb.	4 13/16"	3/4"	Plain Bearings	32J998	—
5"	1"	125 lb.	5 27/32"	3/4"	Plain Bearings	20TM38	—
	1"	125 lb.	5 13/16"	3/4"	Plain Bearings	32J999	—
	1"	150 lb.	5 13/16"	3/4"	Plain Bearings	32J905	—
	1 1/4"	240 lb.	6 5/32"	1 1/4"	Plain Bearings	—	20TM40
Polyurethane Tread							
4"	1 1/4"	275 lb.	4 13/16"	3/4"	Delrin Bearings	32J899	—
5"	1 1/4"	300 lb.	6"	3/4"	Delrin Bearings	32J901	—
	1 1/4"	300 lb.	6 1/64"	3/4"	Delrin Bearings	20TM37	—
	1 1/4"	350 lb.	5 7/8"	3/4"	Precision Ball Bearings	5VN79	—

** With total lock.*

For information on selecting casters, see page 1194.

Low-Profile Easy-Turn Stem Casters

GRAINGER APPROVED

Low-profile easy-turn stem casters have small wheels and are used on equipment that must be kept low to the ground to maximize its stability while rolling, such as business machines, vending machines, store fixtures, lab equipment, refrigeration units, dollies, and server cabinets. The casters each have two wheels mounted on one axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters. All are swivel casters and can rotate 360°. **Friction-ring stem** casters have a stem that presses into an appropriately sized hole or socket in tubes, pipes, wood, or brackets on furniture and equipment. A spring ring at the end of the stem expands to hold the caster in place. **Threaded stem** casters screw into a hole, bracket, insert, or socket.



Swivel Caster w/Brake No. 26Y501

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER Pkg. Qty.	SWIVEL CASTER WITH BRAKE Item No.	SWIVEL CASTER WITH BRAKE Pkg. Qty.
Friction-Ring Stem								
Rubber Tread with Plain Wheel Bearing								
2"	7/8"	200 lb.	2 3/4"	7/16" x 1 1/2"	**26Y503**	1	—	
Nylon Tread with Plain Wheel Bearing								
2"	2"	110 lb.	2 39/32"	7/16" x 7/8"	**416P10**	5	—	
Threaded Stem								
Rubber Tread with Plain Wheel Bearing								
2"	7/8"	200 lb.	2 3/4"	1/2"-13 x 1 1/2"	—		**26Y501**	1
3"	7/8"	350 lb.	3 3/4"	1/2"-13 x 1 1/2"	**26Y502**	1	—	

Furniture Stem Casters

GRAINGER APPROVED BEVCO

Furniture stem casters are installed on chairs, carts, fixtures, and similar items in offices, retail settings, and other areas where they won't be exposed to heavy loads, chemicals, liquids, or high temperatures. Soft-wheel casters are less likely to damage hard tile or wood floors than hard-wheel casters, and hard-wheel casters won't grab or snag carpets. **Friction-ring stem** casters have a stem that presses into an appropriately sized hole or socket in tubes, pipes, wood, or brackets on furniture and equipment. A spring ring at the end of the stem expands to hold the caster in place. **Threaded stem** casters screw into a hole, bracket, insert, or socket.



Friction-Ring Stem No. 2G001

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	Features	Brand	Item No.	Pkg. Qty.	
Friction-Ring Stem										
Nylon Tread										
	1/2"	440 lb.	2 7/16"	7/16" x 7/8"	Plain Bearings	Hard Tread	GA	**19YX32**	4	
	1/2"	550 lb.	2 7/16"	7/16" x 7/8"	Plain Bearings	Hard Tread	GA	**19YX33**	5	
	1 3/4"	550 lb.	2"	7/16" x 1 3/8"	Plain Bearings	—	Bevco	**1RL26**	5	
2"	1 3/4"	550 lb.	2"	7/16" x 7/8"	Plain Bearings	—	Bevco	**36R593**	5	
	1 3/4"	550 lb.	2"	7/16" x 7/8"	Plain Bearings	—	Bevco	**36R611**	5	*
	2"	110 lb.	2 39/32"	7/16" x 7/8"	Plain Bearings	Noiseless Stem, Hooded	GA	**416P09**	4	
	2"	440 lb.	2 39/32"	7/16" x 7/8"	Plain Bearings	Soft Tread	GA	**19YX30**	4	
	2"	550 lb.	2"	7/16" x 7/8"	Plain Bearings	—	Bevco	**36R592**	5	
2 3/16"	2 1/8"	375 lb.	2 1/2"	7/16" x 7/8"	Plain Bearings	Hooded Wheel	GA	**416P18**	5	
3"	1 3/4"	650 lb.	3"	7/16" x 7/8"	Plain Bearings	—	Bevco	**422L34**	5	
Polyolefin Tread										
	1 3/4"	75 lb.	2 37/64"	7/16" x 7/8"	Plain Bearings	Multipurpose Ball	GA	**19YX27**	1	
2"	2"	80 lb.	2 5/8"	3/8" x 1"	Plain Bearings	Sealed Precision Bearing Raceway	GA	**487G49**	1	
	2"	80 lb.	2 5/8"	7/16" x 1 7/16"	Plain Bearings	Swivel Force Reduction	GA	**454N48**	1	
Polyurethane Tread										
2"	1/2"	550 lb.	2 7/16"	7/16" x 7/8"	Plain Bearings	Soft Tread	GA	**19YX31**	5	
Rubber Tread										
	7/8"	75 lb.	2 7/16"	7/16" x 7/8"	Plain Bearings	Soft Tread	GA	**2G001**	1	
	7/8"	75 lb.	2 1/2"	3/8" x 1"	Plain Bearings	Soft Tread	GA	**3A785**	1	
	7/8"	75 lb.	2 1/2"	3/8" x 1"	Precision Ball Bearings	Soft Tread	GA	**3A778**	1	
	7/8"	75 lb.	2 1/2"	7/16" x 7/8"	Plain Bearings	Fully Heat Treated	GA	**429H23**	1	
2"	7/8"	75 lb.	2 1/2"	7/16" x 7/8"	Precision Ball Bearings	Soft Tread	GA	**2G009**	1	
	7/8"	75 lb.	2 1/2"	7/16" x 1 3/8"	Plain Bearings	Hard Tread	GA	**1G011**	1	
	7/8"	75 lb.	2 1/2"	7/16" x 1 3/8"	Plain Bearings	Soft Tread	GA	**3A787**	1	
	7/8"	75 lb.	2 1/2"	7/16" x 1 3/8"	Precision Ball Bearings	Soft Tread	GA	**3A779**	1	
	7/8"	440 lb.	2"	7/16" x 1"	Plain Bearings	—	Bevco	**36R601**	4	
	7/8"	550 lb.	2"	7/16" x 1"	Plain Bearings	—	Bevco	**36R605**	5	
	5/8"	75 lb.	3"	3/8" x 1"	Precision Ball Bearings	Soft Tread	GA	**2G003**	1	
2 1/2"	7/8"	75 lb.	3 39/32"	3/8" x 1"	Plain Bearings	—	GA	**429H16**	1	
	7/8"	75 lb.	3 39/32"	7/16" x 1 3/8"	Plain Bearings	—	GA	**429H17**	1	
	7/8"	75 lb.	3 39/32"	7/16" x 7/8"	Plain Bearings	—	GA	**429H11**	1	
3"	1 1/4"	110 lb.	3 3/8"	7/16" x 1 3/8"	Plain Bearings	Soft Tread	GA	**1G005**	1	
	1 1/4"	165 lb.	3 3/4"	7/16" x 1 3/8"	Plain Bearings	—	GA	**429H07**	1	
Threaded Stem										
Polyolefin Tread										
2"	1 7/8"	75 lb.	2 9/16"	5/16" x 1"	Plain Bearings	Multipurpose Ball	GA	**429H24**	1	
	2"	80 lb.	2 5/8"	5/16" x 1"	Plain Bearings	Sealed Precision Bearing Raceway	GA	**487G48**	1	
Rubber Tread										
	7/8"	75 lb.	2 1/2"	5/16"-18 x 1"	Plain Bearings	Soft Tread	GA	**4A002**	1	
	7/8"	75 lb.	2 1/2"	5/16"-18 x 3/4"	Plain Bearings	Soft Tread	GA	**34TA55**	1	
	7/8"	75 lb.	2 1/2"	5/16"-18 x 1 1/8"	Plain Bearings	Hard Tread	GA	**1G013**	1	
2"	7/8"	75 lb.	2 1/2"	3/8"-16 x 1 1/2"	Plain Bearings	Soft Tread	GA	**1G002**	1	
	7/8"	75 lb.	2 1/2"	3/8"-16 x 1"	Plain Bearings	Soft Tread	GA	**1G001**	1	
	7/8"	75 lb.	2 1/2"	3/8"-16 x 1"	Plain Bearings	Hard Tread	GA	**1G003**	1	
	7/8"	75 lb.	2 1/2"	3/8"-16 x 1 1/2"	Plain Bearings	Hard Tread	GA	**1G004**	1	
2 1/2"	7/8"	75 lb.	2 1/2"	3/8"-16 x 1 1/2"	Plain Bearings	Soft Thread	GA	**416P11**	1	
	7/8"	75 lb.	3 39/32"	3/8"-16 x 1 1/2"	Plain Bearings	—	GA	**429H08**	1	
	1 1/4"	110 lb.	3 3/8"	3/8"-16 x 3/4"	Plain Bearings	Soft Tread	GA	**1G007**	1	
3"	1 1/4"	110 lb.	3 3/4"	3/8"-16 x 1 1/2"	Plain Bearings	Soft Tread	GA	**1G016**	1	
	1 1/4"	165 lb.	3 3/4"	3/8"-16 x 1 1/2"	Plain Bearings	Hard Tread	GA	**1G018**	1	
	1 1/4"	175 lb.	3 3/4"	3/8"-16 x 3/4"	Plain Bearings	Hard Tread	GA	**1G010**	1	



Threaded Stem No. 1G004

** Includes brake.*



Friction Ring Stem w/ Total Lock No. 487G58



Threaded Stem No. 20TM22

GA GRAINGER APPROVED

NSF-Listed Sanitary Stem Casters

These casters satisfy the National Sanitation Foundation's (NSF) rigorous testing requirements for casters that are used in environments where sanitary conditions must be maintained. They mount onto carts, prep tables, food-service equipment, racks, and similar items that will be exposed to frequent washdowns, oils, or chemicals. All are swivel casters and can rotate 360°.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Friction-Ring Stem						
Thermoplastic Rubber Tread						
5"	1¼"	325 lb.	6"	⅞" x 2 3/16"	**32J812**	—
Rubber Tread						
2"	1"	75 lb.	2 29/64"	7/16" x 1 3/8"	**20TM13**	—
3"	1"	100 lb.	3 9/16"	7/16" x 1 29/32"	**20TM15**	—
	1"	100 lb.	3 9/16"	7/16" x 1 3/8"	**20TM14**	—
3½"	1¼"	150 lb.	4 9/16"	7/16" x 1 29/32"	**32J833**	—
	1¼"	150 lb.	4 9/16"	7/16" x 1 3/8"	**32J842**	—
4"	1"	115 lb.	4⅝"	7/16" x 1 29/32"	**20TM16**	—
	1¼"	150 lb.	5"	7/16" x 1 7/16"	**487G42**	—
	1¼"	150 lb.	5"	7/16" x 1 7/8"	**487G40**	—
5"	1¼"	150 lb.	6 1/16"	⅞" x 2⅛"	**487G50**	**487G58** *
	1¼"	200 lb.	5 13/16"	1" x 2½"	**32J941**	—
	1¼"	200 lb.	6 1/16"	7/16" x 1 7/8"	**32J835**	—
Polyurethane Tread						
3"	1"	135 lb.	3 9/16"	7/16" x 1 3/8"	**20TM19**	—
3½"	1¼"	325 lb.	4 9/16"	7/16" x 1 7/16"	**487G44**	—
4"	1¼"	350 lb.	4 13/16"	7/16" x 1 3/8"	**32J848**	—
	1¼"	350 lb.	4 13/16"	7/16" x 1 29/32"	**32J840**	—
5"	1¼"	250 lb.	5 13/16"	1" x 2½"	**32J814**	—
	1¼"	250 lb.	5 13/16"	⅞" x 2⅜"	**32J813**	—
	1¼"	300 lb.	5 13/16"	27/32" x 2 3/16"	—	**32J933**
	1¼"	300 lb.	6 1/64"	⅞" x 2⅜"	**20TM20**	—
	1¼"	300 lb.	6 1/16"	7/16" x 1 3/8"	**32J849**	—
	1¼"	300 lb.	6 1/16"	7/16" x 1 7/8"	**32J841**	—
	1¼"	325 lb.	6 1/16"	⅞" x 2⅛"	**487G52**	—
Polyolefin Tread						
3½"	1¼"	230 lb.	4 9/16"	7/16" x 1 7/16"	**487G43**	—
	1¼"	250 lb.	4 9/16"	7/16" x 1 7/8"	**32J839**	—
4"	1¼"	275 lb.	5"	7/16" x 1 3/8"	**32J846**	—
	1¼"	275 lb.	5"	7/16" x 1 7/8"	**487G41**	—
5"	1¼"	300 lb.	6 1/16"	7/16" x 1 7/8"	**32J838**	—

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Threaded Stem						
Thermoplastic Rubber Tread						
3"	1¼"	210 lb.	4"	⅜"-16 x 1"	**20TM55**	—
4"	1¼"	300 lb.	4 13/16"	½"-13 x 1½"	**32J828**	—
Rubber Tread						
2"	⅞"	75 lb.	2 7/16"	½"-13 x 1½"	**20TM49**	—
	⅞"	75 lb.	2 29/64"	⅜"-16 x 1⅛"	**20TM12**	—
3"	1"	100 lb.	3⅜"	½"-13 x 1½"	**20TM50**	—
3½"	1¼"	160 lb.	4⅜"	½"-13 x 1½"	**32J821**	—
	1¼"	160 lb.	4 35/64"	½"-13 x 2½"	**20TM32**	**20TM31**
4"	1"	115 lb.	4 13/16"	⅜"-16 x 1½"	**20TM51**	—
	1"	115 lb.	4 13/16"	½"-13 x 1½"	**20TM52**	—
	1¼"	170 lb.	4 13/16"	½"-13 x 1½"	**32J822**	—
	1¼"	170 lb.	4 13/16"	½"-13 x 2½"	**32J935**	**32J927**
	1¼"	170 lb.	5"	½"-13 x 2½"	**20TM33**	**20TM34**
5"	1¼"	200 lb.	5 13/16"	½"-13 x 2½"	**32J936**	**32J928**
	1¼"	200 lb.	6"	½"-13 x 1½"	**32J823**	—
	1¼"	200 lb.	6 1/64"	½"-13 x 2½"	**20TM35**	**20TM30**
Polyurethane Tread						
3"	1¼"	300 lb.	4⅛"	½"-13 x ¾"	**487G45**	—
3½"	1¼"	250 lb.	4⅜"	½"-13 x 1½"	**32J830**	—
	1¼"	250 lb.	4 35/64"	½"-13 x 2½"	**20TM22**	**20TM23**
	1¼"	350 lb.	4 35/64"	½"-13 x 1½"	**20TM21**	—
4"	1¼"	275 lb.	5"	½"-13 x 1½"	**20TM24**	—
	1¼"	275 lb.	5"	½"-13 x 2½"	**20TM25**	**20TM26**
	1¼"	350 lb.	4 13/16"	½"-13 x ¾"	**32J819**	—
	1¼"	350 lb.	4 13/16"	½"-13 x 2½"	**32J981**	**32J982**
5"	1¼"	300 lb.	6 1/64"	½"-13 x 2½"	**20TM28**	**20TM29**
	1¼"	325 lb.	6 1/16"	½"-13 x ¾"	**487G46**	—
	1¼"	350 lb.	5 13/16"	½"-13 x 2½"	**32J983**	—
	1¼"	350 lb.	6"	½"-13 x ¾"	**32J820**	—
	1¼"	350 lb.	6 1/64"	½"-13 x 1½"	**20TM27**	—
Polyolefin Tread						
3"	1¾"	350 lb.	3⅞"	½"-13 x ¾"	**20TM58**	—
	1¾"	350 lb.	3⅞"	½"-13 x 2½"	**20TM59**	—
3½"	1¼"	250 lb.	4⅜"	½"-13 x ¾"	**32J815**	—
	1¼"	250 lb.	4⅜"	½"-13 x 1½"	**32J824**	—
4"	1¼"	275 lb.	5"	½"-13 x 1½"	**20TM36**	—
	1¼"	350 lb.	4 13/16"	½"-13 x ¾"	**32J816**	—
	1¼"	350 lb.	4 13/16"	½"-13 x 1½"	**32J825**	—
5"	1¼"	350 lb.	6"	½"-13 x 1½"	**32J826**	—

** With total lock.*

GA GRAINGER APPROVED

Corrosion- and Debris-Resistant Stem Casters

Antimicrobial casters have wheels that are impregnated with an antimicrobial compound that prevents damaging or odor-causing microbes from growing on them. **Corrosion-resistant** stem casters will not rust or corrode in environments where the casters will be exposed to water or cleaning chemicals. **Debris-resistant** stem casters have a thread guard that stops debris from getting inside the caster and damaging or contaminating it. Suitable for racks, carts, and other equipment that will be used in areas where the casters will be exposed to dirt or frequent washdowns, such as laundry rooms, textile factories, food-service facilities, restaurants, offices, government buildings, and schools. All are swivel casters and can rotate 360°.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Antimicrobial Corrosion- & Debris-Resistant Expanding Stem							
Thermoplastic Rubber Tread							
3"	1¼"	165 lb.	4 7/16"	½"-13 x 2¼"	Precision Ball	**455U23**	**455U39** *
4"	1¼"	190 lb.	5 7/16"	½"-13 x 2¼"	Precision Ball	**455U27**	**455U33** *
5"	1¼"	220 lb.	6 7/16"	½"-13 x 2¼"	Precision Ball	**455U25**	**455U40** *
6"	1¼"	240 lb.	7 7/16"	½"-13 x 2¼"	Precision Ball	**455U41**	**455U34** *
Corrosion- & Debris-Resistant Threaded Stem							
Polyolefin Tread							
3"	1"	110 lb.	4 5/16"	3/18"-16 x ¾"	Delrin	**429H21**	**429H22**
	1"	110 lb.	4 5/16"	5/16"-18 x 1"	Delrin	**429H19**	**429H20**
Debris-Resistant Friction-Ring Stem							
Polyurethane Tread							
5"	1¼"	300 lb.	5 13/16"	27/32" x 2 3/16"	Precision Ball	**32J932**	—
Debris-Resistant Threaded Stem							
Thermoplastic Rubber Tread							
5"	1¼"	280 lb.	6 1/64"	½"-13 x 1"	Precision Ball	**29XW85**	—

** With total lock.*



Antimicrobial Expanding Stem w/ Total Lock No. 455U33



Debris-Resistant Friction-Ring No. 32J932

CAD DRAWINGS
Available Online

Grainger's CAD capability lets you download 2D drawings and 3D CAD files in your choice of format.

> CAD available on select products. Go to **Grainger.com®**



For information on selecting casters, see page 1194.

GA GRAINGER APPROVED

Medical Stem Casters

Medical stem casters roll quietly and smoothly to minimize noise that can disturb patients. They are used on beds, gurneys, IV poles, maintenance carts, food-service equipment, and other items in areas such as hospitals, rehabilitation centers, and laboratories. All are swivel casters and can rotate 360°. **Antimicrobial** casters have wheels that are impregnated with an antimicrobial compound that stops damaging or odor-causing microbes from growing on them. **Corrosion-resistant** casters will not rust or corrode when exposed to water or cleaning chemicals. **Debris-resistant** casters have a thread guard that keeps debris from getting inside the casters and damaging or contaminating them. **Maintenance-free** casters have sealed precision ball bearings that do not need to be routinely greased. **Single-wheel** casters each have one wheel. **Twin-wheel** casters each have two wheels that let them swivel and start rolling more easily than single-wheel casters.



Antimicrobial Friction-Ring w/ Total Lock No. 455U35



Quiet-Roll Expanding Stem No. 455U22



Quiet-Roll Friction-Ring Stem No. 455U30



Single-Wheel Threaded Stem w/ Total Lock No. 454M80



Twin-Wheel Threaded Stem No. 54JE12

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Antimicrobial Corrosion- & Debris-Resistant Friction-Ring Stem							
Thermoplastic Rubber Tread							
3"	1¼"	165 lb.	4 7/16"	27/32" x 2⅛"	455U36	455U35	*
4"	1¼"	190 lb.	5 7/16"	27/32" x 2⅛"	455U32	455U37	*
5"	1¼"	220 lb.	6 7/16"	27/32" x 2⅛"	—	455U38	*
Maintenance-Free High-Performance Friction-Ring Stem							
Thermoplastic Rubber Tread							
3"	1¼"	165 lb.	4⅞"	7/16" x 1 7/16"	—	454Y41	*
	1¼"	165 lb.	4⅞"	7/16" x ⅞"	—	454Y39	*
5"	1¼"	220 lb.	6⅞"	27/32" x 2 3/16"	1MMN1	1MMN2	*
Polyurethane Tread							
3"	1¼"	165 lb.	4⅞"	7/16" x ⅞"	487H12	487H13	*
Polyolefin Tread							
3"	1¼"	165 lb.	4⅞"	7/16" x 1 7/16"	454Y40	—	
	1¼"	165 lb.	4⅞"	7/16" x ⅞"	454Y38	—	
4"	1¼"	190 lb.	5 13/16"	7/16" x 1 7/16"	19YX01	19YX05	*
5"	1¼"	220 lb.	6⅞"	7/16" x 1 7/16"	19YX03	19YX07	*
Quiet-Roll Expanding Stem							
Thermoplastic Rubber Tread							
3"	1¼"	165 lb.	4 7/16"	½"-13 x 2¼"	455U22	455U29	*
4"	1¼"	190 lb.	5 7/16"	½"-13 x 2¼"	455U26	455U46	*
6"	1¼"	240 lb.	7 7/16"	½"-13 x 2¼"	455U42	455U43	*
Rubber Tread							
5"	1¼"	175 lb.	6 1/16"	½"-13 x 2 9/16"	—	490W39	*
Polyurethane Tread							
3"	1¼"	250 lb.	4¼"	1 37/64" x 2 37/64"	—	49H627	
Quiet-Roll Friction-Ring Stem							
Thermoplastic Rubber Tread							
3"	1¼"	165 lb.	4 7/16"	27/32" x 2⅛"	455U31	455U30	*
4"	1¼"	190 lb.	5 7/16"	27/32" x 2⅛"	455U28	455U47	*
6"	1¼"	240 lb.	7 7/16"	27/32" x 2⅛"	455U45	455U44	*
Neoprene Tread							
2"	1"	125 lb.	2 15/16"	7/16" x ⅞"	—	38R621	*
3"	1"	175 lb.	4⅛"	7/16" x ⅞"	454Y13	454Y44	*

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Single-Wheel Threaded Stem							
Thermoplastic Rubber Tread							
4"	1¼"	190 lb.	5 13/16"	M12-20 x 25/32"	—	454M80	*
5"	1¼"	220 lb.	6⅞"	M12-20 x 25/32"	454Y29	—	
Polyurethane Tread							
3"	1¼"	165 lb.	4⅞"	5/16"-18 x 1"	487H14	487H15	*
Polyolefin Tread							
4"	1¼"	190 lb.	5 13/16"	M12-20 x 25/32"	454M79	—	
	1¼"	190 lb.	5 13/16"	½"-13 x 1"	—	19YX06	*
5"	1¼"	220 lb.	6⅞"	½"-13 x 1½"	—	19YX08	*
Neoprene Tread							
3"	1"	175 lb.	4⅛"	⅜"-16 x 1"	455T49	455T50	*
Twin-Wheel Threaded Stem							
Polyurethane Tread							
2 15/16"	2⅜"	165 lb.	3 13/16"	15/32" x 63/64"	490W44	—	
3"	1⅞"	195 lb.	3 9/16"	M10-15 x 9/16"	2GU84	—	
3 15/16"	2¾"	220 lb.	5⅛"	15/32" x 63/64"	—	483N15	*
	2¾"	220 lb.	5 1/16"	15/32" x 63/64"	490W40	—	
4"	2½"	275 lb.	4 11/16"	3/16" x 15/32"	—	24WA54	*
	2½"	275 lb.	4¾"	31/64" x 25/32"	—	2GU87	*
	2½"	275 lb.	4¾"	5/32" x 25/32"	2GU86	—	
	2¾"	175 lb.	4⅞"	25/64" x 9/16"	2GU76	2GU77	*
	2¾"	220 lb.	4¾"	5/32" x 25/32"	16D127	—	
4 15/16"	3⅛"	275 lb.	6 1/16"	15/32" x 63/64"	490W42	—	
	3¼"	220 lb.	6 1/16"	M12-25 x 25/32"	—	54JE11	*
	3¼"	275 lb.	6 1/16"	15/32" x 63/64"	—	490W43	*
5"	2¾"	295 lb.	5 13/16"	3/16" x 5/16"	24WA56	24WA57	*
	3⅛"	220 lb.	5¾"	5/32" x 25/32"	2GU78	—	
Nylon Tread							
3 15/16"	2¾"	220 lb.	5⅛"	M12-25 x 25/32"	—	54JE09	
4"	2¾"	220 lb.	5⅛"	5/8"-18 x 15/32"	54JE12	—	

** With total lock.*

GA GRAINGER APPROVED

Side-Mount Casters

Side-mount casters have vertical mounting plates that attach to the sides of gates, doors, fences, and other heavy equipment that won't support a traditional plate or stem caster. Also known as gate casters, these casters have a spring-loaded suspension that absorbs shocks to provide a smooth ride even when the casters are rolling on uneven surfaces. All have a rubber tread.

Wheel Dia.	Wheel Width	Load Rating	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Item No.
2"	⅞"	100 lb.	5⅜" x 2"	I	Delrin	32J780
3"	⅞"	100 lb.	4" x 1"	I	Plain	32J778
	⅞"	125 lb.	5⅜" x 2"	I	Plain	32J781
4"	1"	125 lb.	4" x 1"	I	Plain	22W968
8"	2½"	210 lb.	5½" x 3¾"	K	Precision Ball	22W969

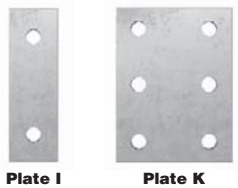


Plate I **Plate K**



No. 22W968

Heavy-Duty Long-Swivel-Life No. 32MZ44



Corrosion-Resistant Swivel No. 22N037



GA GRAINGER APPROVED

Bolt-Hole Casters

Bolt-hole casters have an open hole that provides versatility when mounting the casters to carts, furniture, storage cabinets, racks, and other equipment. They can be installed in tubing using compatible expanding mounting stems that get larger as they're tightened to keep the caster firmly in place, or they can be installed in wood using a lag bolt. **General purpose** casters are suitable for a wide variety of uses, including light-duty to medium-duty maintenance, contracting, janitorial, manufacturing, warehousing, and transportation applications. **Low-profile** casters are used on equipment that must stay low to the ground to keep it stable while rolling. **Easy-turn** casters each have two wheels, which reduces friction between the floor and the wheels and lets them swivel more easily than single-wheel casters. **Corrosion-resistant** casters have stainless-steel frames that withstand frequent washdowns or exposure to chemicals. **Heavy-duty long-swivel-life** casters each have a sealed swivel mechanism that prevents dust and dirt from entering them and making it hard for them to swivel. They also have thick steel frames that can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than other types of bolt-hole casters.

Wheel Dia.	Wheel Width	Load Rating	Mounting Height	Bolt Hole Dia.	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Low-Profile Easy-Turn									
Soft Thermoplastic Rubber Tread									
2"	¾"	175 lb	2¾"	⅜"	Plain	22M991	—	22M992	*
3"	1"	220 lb	3⅛"	⅜"	Plain	22M995	—	22M996	*
Low-Profile									
Soft Thermoplastic Rubber Tread									
2"	¾"	110 lb	2¾"	7⁄16"	Plain	22M977	—	22M978	*
	¾"	110 lb	2¾"	7⁄16"	Precision Ball	22M979	—	22M980	*
Hard Nylon Tread									
1⅜"	1"	165 lb	2"	7⁄16"	Plain	22M999	—	—	
2"	¾"	165 lb	2 1⁄16"	7⁄16"	Plain	22N001	—	22N002	*
Heavy-Duty Long-Swivel-Life									
Hard Phenolic Tread									
6"	2"	1200 lb	8"	¾"	Roller	32MZ42	—	—	
Extra Hard Iron Tread									
6"	1¾"	1320 lb	7⅞"	¾"	Roller	32MZ44	—	—	
General Purpose									
Soft Thermoplastic Rubber Tread									
3"	1"	165 lb	3⅛"	7⁄16"	Plain	22M981	22M989	22M982	*
	1"	165 lb	3⅛"	7⁄16"	Precision Ball	22M983	22M990	22M984	*
3⅛"	1"	155 lb	4¾"	7⁄16"	Plain	22M985	—	22M986	*
Soft Rubber Tread									
3 1⁄16"	1¼"	310 lb	4"	½"	Roller	22N005	—	—	
	1¼"	310 lb	4"	9⁄16"	Roller	—	—	22N006	*
4"	1¼"	395 lb	5½"	½"	Roller	38LU24	—	38LU25	*
5"	1¼"	440 lb	6 7⁄16"	½"	Roller	38LU26	—	38LU27	*
Soft Polyurethane Tread									
3⅛"	1⅝"	660 lb	5 1⁄16"	½"	Precision Ball	22N020	—	22N022	*
Soft Nylon Tread									
3⅛"	1¼"	330 lb	4⅞"	½"	Precision Ball	22N007	—	22N008	*
4⅞"	1½"	330 lb	5⅞"	½"	Precision Ball	22N009	—	22N010	*
Soft Neoprene Tread									
3"	1"	175 lb	4"	7⁄16"	Precision Ball	—	—	454Y11	
	1"	175 lb	4"	7⁄16"	Precision Ball	—	—	454Y12	*
Hard Phenolic Tread									
3"	1½"	400 lb	4½"	½"	Roller	38LU19	—	—	
5"	1½"	495 lb	6 7⁄16"	½"	Roller	38LU22	—	38LU23	*
Hard Nylon Tread									
3"	1⅜"	350 lb	4½"	½"	Roller	38LU14	—	—	
3⅛"	1½"	770 lb	5 1⁄16"	½"	Precision Ball	22N016	—	22N018	*
4"	1⅜"	495 lb	5½"	½"	Roller	38LU15	—	38LU16	*
Firm Polyurethane Tread									
3⅛"	1⅝"	550 lb	5 1⁄16"	½"	Precision Ball	22N025	—	22N027	*
Corrosion-Resistant									
Soft Thermoplastic Rubber Tread									
3 1⁄16"	1¼"	220 lb	4¼"	½"	Precision Ball	22N033	—	22N034	*
4⅞"	1¼"	265 lb	6 3⁄16"	½"	Precision Ball	22N037	—	22N038	*

Expanding Stem Size Range	Stem Length	CARBON STEEL Item No.	STAINLESS STEEL Item No.
Bolt-Hole Caster Expanding Mounting Stems			
For Round Stem with 7⁄16" Bolt Hole			
25⁄32" to 63⁄64"	2½"	22N255	22N264
63⁄64" to 1 3⁄16"	2½"	22N256	22N265
1 3⁄16" to 1⅜"	2½"	22N257	22N266
1⅜" to 1 37⁄64"	2½"	22N258	22N267
For Square Stem with 7⁄16" Bolt Hole			
45⁄64" to 53⁄64"	2½"	22N259	22N268
53⁄64" to 63⁄64"	2½"	22N260	22N269
63⁄64" to 1 9⁄64"	2½"	22N261	22N270
1 9⁄64" to 1 17⁄64"	2½"	22N262	—
1¼" to 1½"	2 5⁄16"	—	22N272
1 17⁄64" to 1 33⁄64"	2½"	22N263	—

** With total lock.*

GA GRAINGER APPROVED

Polyolefin Tread Wheels

Wheels with hard polyolefin treads will not mark or chip floor surfaces. These lightweight, corrosion-resistant wheels can withstand impacts and exposure to water, oils, and chemicals. They are also nonabsorbent and can be steam cleaned. Not suitable for prolonged exposure to heat or cold.



No. 1NWT3

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Item No.
3"	1"	125 lb.	5⁄16"	1⅛"	No	Plain	2RZF8
	1¼"	210 lb.	5⁄16"	1½"	No	Plain	26Y398
3½"	1¼"	250 lb.	⅜"	1 9⁄16"	No	Precision Ball	26Y347
	1¼"	250 lb.	⅜"	1½"	No	—	26Y346
	1⅜"	250 lb.	⅜"	1½"	No	Delrin	402M57
4"	1"	140 lb.	5⁄16"	1⅛"	No	Plain	426A73
	1¼"	250 lb.	⅜"	1 9⁄16"	No	Precision Ball	26Y355
	1¼"	255 lb.	5⁄16"	1½"	No	Plain	26Y399
	1¼"	300 lb.	⅜"	1 9⁄16"	No	Delrin	400K85
	1¼"	300 lb.	⅜"	1 9⁄16"	No	Precision Ball	400K86
	1¼"	375 lb.	⅜"	1½"	No	Delrin	1KA99
	2"	300 lb.	⅝", ¾"	2 1⁄16"	Yes	Roller	1NWT3
	2"	600 lb.	½"	2 3⁄16"	No	Roller	2RZG1
5"	1"	145 lb.	5⁄16"	1⅛"	No	Plain	2RZG2
	1¼"	250 lb.	⅜"	1 9⁄16"	No	Precision Ball	26Y369
	1¼"	280 lb.	5⁄16"	1½"	No	Plain	26Y401
	1¼"	350 lb.	⅜"	1 9⁄16"	No	Delrin	26Y368
	1¼"	450 lb.	⅜"	1 9⁄16"	No	Precision Ball	400K87
	1⅜"	400 lb.	½"	1½"	No	Plain	426A65
	1⅜"	450 lb.	⅜"	1½"	No	Delrin	1KB21
	1½"	350 lb.	⅜"	1 9⁄16"	No	Plain	26Y366
	2"	300 lb.	⅝", ¾"	2 1⁄16"	Yes	Roller	1NWT5
	2"	650 lb.	½"	2 1⁄16"	No	Roller	2RZG3
	2"	800 lb.	½"	2 3⁄16"	No	Roller	1ULT2
6"	1¼"	450 lb.	⅜"	1 9⁄16"	No	Delrin	26Y379
	1¼"	450 lb.	⅜"	1 9⁄16"	No	Precision Ball	26Y382
	2"	300 lb.	⅝", ¾"	2 1⁄16"	Yes	Roller	1NWT6
	2"	500 lb.	½", ⅝"	2¼"	Yes	Plain	1NWT7
	2"	700 lb.	½"	2 1⁄16"	No	Roller	2RZG5
	2"	900 lb.	½"	2 3⁄16"	No	Roller	1ULT3
8"	2"	900 lb.	½"	2 3⁄16"	No	Roller	1ULT4
	2"	900 lb.	½"	2 1⁄16"	No	Roller	2RZG7
	2"	1000 lb.	⅝", ¾"	2 1⁄16"	Yes	Roller	1NWT8

GA GRAINGER APPROVED

Phenolic Tread Wheels



No. 2RYZ4



No. 1UBN8

Wheels with hard phenolic treads resist oils, grease, gasoline, and mild acids and can handle heavy loads without damaging floors. For use in dry environments with smooth, hard flooring like concrete. Nos. 1UBN6 to 1UBN8 are laminated phenolic.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.	
3¼"	2"	700 lb.	½"	2 1⁄16"	No	Roller	Black	2RYZ4	
4"	2"	1200 lb.	½"	2 1⁄16"	No	Roller	Black	55KC39	
	1½"	500 lb.	⅜"	1¾"	No	Roller	Black	1G450	
	1½"	600 lb.	⅜"	1¾"	No	Roller	Black	55KC34	
	2"	800 lb.	½"	2 1⁄16"	No	Roller	Black	2G223	
	2"		½"	2 1⁄16"	No	Delrin	Black	2G224	
	2"		½"	2 1⁄16"	No	Delrin	Black	55KC36	
5"	1½"	600 lb.	⅜"	1¾"	No	Roller	Black	1G451	
	1½"		⅜"	1¾"	No	Roller	Black	55KC35	
	2"	900 lb.	½"	2 1⁄16"	No	Delrin	Black	2G225	
	2"	1000 lb.	½"	2 1⁄16"	No	Precision Ball	Black	16V368	
	2"		½"	2 1⁄16"	No	Roller	Black	2RYZ6	
	2"		½"	2 1⁄16"	No	Delrin	Black	55KC37	
6"	1½"	500 lb.	⅜"	2⅛"	No	Roller	Black	416P24	
	2"	1200 lb.	½"	2 3⁄16"	No	Roller	Brown	489C23	*
	2"		½"	2 1⁄16"	No	Roller	Black	2RYZ9	
	2"	1500 lb.	¾"	2 3⁄16"	No	Roller	Brown	1UBN5	*
	2½"	1600 lb.	¾"	3½"	No	Roller	Black	55KC40	
	2½"	1750 lb.	½"	3"	No	Roller	Black	2RYZ8	
	2½"	1800 lb.	1"	3¼"	No	Roller	Black	5VJ70	
	3"	2000 lb.	1"	3¼"	No	Roller	Black	423J18	
8"	2"	1200 lb.	½"	2 1⁄16"	No	Roller	Black	2RZA2	
	2"	1400 lb.	½"	2 1⁄16"	No	Precision Ball	Black	16V370	
	2"		½"	2 1⁄16"	No	Roller	Black	1G421	
	2"		¾"	2¼"	No	Roller	Black	5VJ83	
	2"	1750 lb.	¾"	2 3⁄16"	No	Roller	Brown	1UBN6	*
	2½"	2000 lb.	½"	3"	No	Roller	Black	2RZA4	
	2½"		¾"	3½"	No	Roller	Black	55KC41	
	3"	2500 lb.	¾"	3¼"	No	Roller	Black	16V330	
	3"	3000 lb.	1"	3¼"	No	Roller	Black	5VJ94	
10"	2½"	2500 lb.	¾"	3½"	No	Roller	Black	55KC38	
	3"	2900 lb.	1"	3½"	No	Roller	Black	423J15	
	3"	3600 lb.	1"	3¼"	No	Roller	Brown	1UBN7	*
12"	3"	3500 lb.	¾"	3¼"	No	Roller	Black	16V332	
	3"		1"	3¼"	No	Roller	Black	52YU04	
	3"	4400 lb.	1"	3¼"	No	Roller	Brown	1UBN8	*

** Impact resistant.*

GA GRAINGER APPROVED

Rubber Tread Wheels

Wheels with rubber treads are suitable for most types of flooring. **Soft** treads offer more cushioning and better floor protection than hard treads. **Hard** treads provide more weight capacity, better abrasion resistance, and easier rolling than soft treads. **Nonmarking** treads will not leave marks on floors.

Aluminum wheel cores are lighter and more rust- and corrosion-resistant than iron cores. **Plastic, nylon,** and **polyurethane** wheel cores are lighter and more corrosion-resistant than metal cores. **Iron** wheel cores typically have high load capacities but must be used in dry environments. Wheels with a **rubber** core have a rubber tread and core that are molded as a single piece, eliminating the risk of the tread and core separating during use.



Nonmarking Soft Rubber Tread No. 5VF40



Nonmarking Soft Thermoplastic Rubber Tread No. 2RYW6



Soft Rubber Tread No. 3G268



Nonmarking Firm Thermoplastic Rubber Tread No. 26Y430



Hard Rubber Tread No. 1NWT9



Nonmarking Hard Rubber Tread No. 29XU73

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Nonmarking Soft Rubber Tread								
Aluminum Core								
3⅞"	1⅝"	440 lb.	⅜"	1⅝"	No	Precision Ball	Black	**487G13**
5"	2"	440 lb.	½"	2 7/16"	No	Precision Ball	Green	**5VF29**
5⅞"	2"	880 lb.	¾"	2⅜"	No	Precision Ball	Black	**487G14**
6"	2"	660 lb.	½"	2 7/16"	No	Precision Ball	Green	**5VF33**
	2"	820 lb.	½"	2½"	No	Precision Ball	Blue	**29XU69**
7⅞"	2"	1100 lb.	¾"	2⅜"	No	Precision Ball	Gray	**454Y03**
8"	2"	880 lb.	½"	2 7/16"	No	Precision Ball	Green	**5VF40**
	2"	1000 lb.	½"	2 7/16"	No	Precision Ball	Blue	**426A83**
Nylon Core								
3½"	1¼"	225 lb.	⅜"	1⅝"	No	Precision Ball	Blue	**29XU71**
4"	1¼"	250 lb.	⅜"	1⅝"	No	Precision Ball	Blue	**29XU72**
	2"	400 lb.	½"	2 7/16"	No	Precision Ball	—	**307Z95**
5"	2"	500 lb.	½"	2 7/16"	No	Precision Ball	Blue	**29XU74**
6"	2"	600 lb.	½"	2 7/16"	No	Precision Ball	Blue	**29XU75**
8"	2"	700 lb.	½"	2 7/16"	No	Precision Ball	Blue	**29XU76**
Plastic Core								
3"	1¼"	200 lb.	⅜"	1 9/16"	No	Delrin	Gray	**2RYW3**
3½"	1¼"	250 lb.	⅜"	1 9/16"	No	Delrin	Gray	**2RYW7**
Steel Core								
3⅛"	1¾"	440 lb.	¾"	1 13/16"	No	Precision Ball	Gray	**40L538**
6 5/16"	2"	990 lb.	¾"	2⅜"	No	Precision Ball	Gray	**40L539**
7⅞"	2"	1320 lb.	¾"	2⅜"	No	Precision Ball	Gray	**40L540**
11 13/16"	3"	2200 lb.	1 3/16"	3 5/16"	No	Precision Ball	Gray	**40L544**
Nonmarking Soft Thermoplastic Rubber Tread								
Plastic Core								
3"	1¼"	200 lb.	⅜"	1½"	No	Precision Ball	Gray	**2RYW6**
3½"	1¼"	250 lb.	⅜"	1½"	No	Precision Ball	Gray	**2RYW8**
4"	1"	135 lb.	5/16"	1 3/16"	No	Plain	Gray	**26Y335**
	1¼"	275 lb.	⅜"	1 9/16"	No	Delrin	Gray	**26Y352**
	1¼"	300 lb.	⅜"	1½"	No	Delrin	Gray	**2RYX1**
	1¼"	300 lb.	⅜"	1½"	No	Precision Ball	Gray	**2RYX3**
	1¼"	300 lb.	½"	1½"	No	Delrin	Gray	**5VT75**
	1½"	275 lb.	⅜"	1¾"	No	Delrin	Gray	**26Y358**
5"	1¼"	200 lb.	⅜"	1⅝"	No	Precision Ball	Gray	**1KB19**
	1¼"	300 lb.	⅜"	1 9/16"	No	Delrin	Gray	**26Y367**
	1¼"	325 lb.	⅜"	1½"	No	Delrin	Gray	**2RZK2**
	1¼"	325 lb.	⅜"	1 9/16"	No	Precision Ball	Gray	**5VT78**
	1¼"	325 lb.	½"	1 7/16"	No	Delrin	Gray	**5VT79**
	1¼"	350 lb.	5/16"	1⅝"	No	Precision Ball	Blue	**5VT77**
	1½"	300 lb.	⅜"	1¾"	No	Precision Ball	Gray	**26Y373**
	1½"	300 lb.	⅜"	1¾"	No	Delrin	Gray	**26Y372**
	2"	375 lb.	½"	2 7/16"	No	Roller	Gray	**2RYX6**
6"	1½"	300 lb.	⅜"	2⅛"	No	Delrin	Gray	**26Y380**
	2"	450 lb.	½"	2 7/16"	No	Roller	Gray	**426A67**
	2"	450 lb.	½"	2 7/16"	No	Roller	Gray	**2RZJ1**
	2"	600 lb.	½"	2 7/16"	No	Roller	Gray	**2RYX9**
	2"	600 lb.	½"	2½"	No	Roller	Gray	**5VT81**
8"	2"	500 lb.	½"	2 7/16"	No	Precision Ball	Gray	**2RYY4**
	2"	675 lb.	½"	2 7/16"	No	Roller	Gray	**2RYY3**
	2"	675 lb.	½"	2½"	No	Roller	Gray	**5VT82**
10"	2"	250 lb.	⅝"	2¼"	No	Precision Ball	Black	**16V335**
Polyurethane Core								
5"	1¼"	280 lb.	5/16"	1½"	No	Delrin	Gray	**26Y396**
6"	2"	450 lb.	½"	2 15/32"	No	Roller	Gray	**26Y431**

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Soft Rubber Tread								
Aluminum Core								
3⅞"	1⅝"	440 lb.	9/16"	1⅝"	No	Precision Ball	Black	**40L496**
3 15/16"	1⅝"	220 lb.	9/16"	1 13/16"	No	Precision Ball	Black	**483N34**
4⅞"	1⅝"	550 lb.	9/16"	1¾"	No	Precision Ball	Black	**40L497**
	2"	595 lb.	¾"	2⅜"	No	Precision Ball	Black	**40L498**
	2"	595 lb.	¾"	2⅜"	No	Precision Ball	Black	**487G27**
5"	2"	350 lb.	½"	2 7/16"	No	Roller	Black	**2RYX7**
	2"	500 lb.	¾"	2 3/16"	No	Roller	Black	**26Y448**
5⅞"	2"	880 lb.	¾"	2⅜"	No	Precision Ball	Black	**40L499**
6"	2"	550 lb.	¾"	2 3/16"	No	Roller	Black	**26Y449**
6¼"	2"	880 lb.	¾"	2⅜"	No	Precision Ball	Black	**40L501**
7⅞"	2"	1100 lb.	¾"	2⅜"	No	Precision Ball	Black	**40L502**
9 13/16"	2"	1430 lb.	¾"	2⅜"	No	Precision Ball	Black	**40L503**
Iron Core								
4"	2"	300 lb.	½"	2 3/16"	No	Roller	Black	**2RZJ6**
	2"	300 lb.	½"	2 7/16"	No	Roller	Black	**3G266**
5"	2"	450 lb.	½"	2½"	No	Roller	Black	**3G267**
	2"	500 lb.	½"	2 7/16"	No	Roller	Black	**2RZJ7**
6"	2"	410 lb.	½"	2 7/16"	No	Roller	Black	**2RYY1**
	2"	500 lb.	½"	2 7/16"	No	Roller	Black	**2RZJ8**
	2"	500 lb.	½"	2½"	No	Roller	Black	**3G268**
	2"	810 lb.	½"	2 7/16"	No	Roller	Black	**5VF36**
8"	2"	500 lb.	½"	2 7/16"	No	Roller	Black	**2RYY2**
	2"	600 lb.	½"	2 7/16"	No	Roller	Black	**2RZJ9**
	2"	600 lb.	½"	2 15/32"	No	Roller	Black	**3G269**
	2"	1175 lb.	½"	2 3/16"	No	Roller	Black	**400K38**
10"	2⅛"	1350 lb.	⅝"	2⅜"	No	Roller	Black	**5VF54**
15⅞"	5⅛"	3300 lb.	1¾"	5⅛"	No	Precision Ball	Black	**483N52**
Plastic Core								
6"	2"	400 lb.	½"	2 3/16"	No	Roller	Black	**2RZH9**
Rubber Core								
5"	1¼"	240 lb.	⅜"	1 9/16"	No	Precision Ball	Black	**26Y411**
Steel Core								
6¼"	1⅝"	495 lb.	¾"	2⅜"	No	Roller	Black	**40L535**
7⅞"	2"	770 lb.	¾"	2⅜"	No	Roller	Black	**40L536**
9 13/16"	2⅜"	1870 lb.	1"	2 13/16"	No	Precision Ball	Black	**489D29**
9 15/16"	2⅜"	990 lb.	1"	2⅜"	No	Roller	Black	**40L537**
Nonmarking Firm Rubber Tread								
Aluminum Core								
3½"	1¼"	250 lb.	⅜"	1½"	No	Delrin	Gray	**26Y427**
Plastic Core								
3½"	1¼"	250 lb.	½"	1 7/16"	No	Delrin	Gray	**5VT73**
4"	1¼"	165 lb.	⅜"	1½"	No	Delrin	Gray	**1KA95**
	1¼"	300 lb.	⅜"	1½"	No	Precision Ball	Gray	**488T93**
6"	1¼"	240 lb.	⅜"	1 7/16"	No	Precision Ball	Gray	**487G26**
Nonmarking Firm Thermoplastic Rubber Tread								
Plastic Core								
4"	1¼"	325 lb.	⅜"	1 7/16"	No	Precision Ball	Gray	**2LU25**
5"	1¼"	500 lb.	⅜"	1 7/16"	No	Precision Ball	Gray	**2LU27**
	2"	350 lb.	½"	2 3/16"	No	Roller	Gray	**26Y430**
8"	2"	600 lb.	½"	2 3/16"	No	Roller	Gray	**26Y432**
Hard Rubber Tread								
Rubber Core								
5"	1½"	300 lb.	½", ⅝"	1⅝"	Yes	Plain	Black	**1NWT9**
6"	2"	350 lb.	½", ⅝"	2¼"	Yes	Plain	Black	**426A66**
Nonmarking Hard Rubber Tread								
Nylon Core								
4"	1¼"	400 lb.	½"	2 3/16"	No	Precision Ball	Blue	**29XU73**



Glass-Filled Nylon Core
No. 29XU37



Plastic Core
No. 1ULR8



Polyurethane Core
No. 2RZD6

GA GRAINGER APPROVED

Polyurethane Tread on Plastic Core Wheels

These wheels have plastic cores, which weigh less and are more corrosion-resistant than metal cores. They can withstand exposure to water. The wheels' polyurethane treads resist abrasion and chemicals, roll quietly, and will not mark floors. **Glass-filled nylon** cores will not chip, absorb water, or break down in caustic environments. **Nylon** cores withstand exposure to solvents, corrosive environments, and extreme temperatures. **Polyurethane** cores provide excellent chemical resistance. **Rubber** cores absorb shock and resist impact.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/ Tread Hardness Rating	Wheel Color	Item No.
Glass-Filled Nylon Core									
4"	2"	600 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU37**
Nylon Core									
4"	1¼"	195 lb.	5/16"	1½"	No	Delrin	Firm	Blue	**1KB27**
	1"	145 lb.	5/16"	1⅛"	No	Plain	Firm	Blue	**2RZC9**
5"	1¼"	220 lb.	5/16"	1½"	No	Delrin	Firm	Blue	**1KB29**
	1¼"	250 lb.	⅜"	1½"	No	Delrin	Firm	Blue	**1KB23**
	2"	750 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC8**
Plastic Core									
3"	1¼"	210 lb.	⅜"	1 9/16"	No	Delrin	Hard	Maroon	**26Y385**
	1¼"	300 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LE95**
	1¼"	300 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**402M58**
3½"	1¼"	250 lb.	⅜"	1½"	No	Delrin	Firm	Blue	**1KA89**
	1¼"	250 lb.	⅜"	1⅝"	No	Precision Ball	Firm	Blue	**426A63**
	1¼"	350 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**426A71**
4"	1¼"	250 lb.	⅜"	1⅝"	No	Precision Ball	Firm	Blue	**1KB13**
	1¼"	275 lb.	⅜"	1½"	No	Delrin	Firm	Blue	**1KB11**
	1¼"	275 lb.	⅜"	1 9/16"	No	Delrin	Firm	Maroon	**26Y356**
	1¼"	350 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LE99**
	1¼"	350 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**402M59**
	2"	600 lb.	½"	2 7/16"	No	Roller	Firm	Red	**2RZC5**
	2"	600 lb.	½"	2½"	No	Roller	Firm	Gray	**3G303**
5"	1¼"	220 lb.	5/16"	1 7/16"	No	Precision Ball	Hard	Gray	**454Y09**
	1¼"	280 lb.	5/16"	1½"	No	Delrin	Firm	Maroon	**26Y443**
	1¼"	300 lb.	⅜"	1 9/16"	No	Delrin	Firm	Maroon	**26Y370**
	1¼"	350 lb.	5/16"	1⅝"	No	Precision Ball	Firm	Blue	**5VT65**
	1¼"	350 lb.	5/16"	1⅝"	No	Precision Ball	Firm	Blue	**400K33**
	1¼"	350 lb.	5/16"	1⅝"	No	Precision Ball	Firm	Blue	**400K34**
	1¼"	350 lb.	⅜"	1⅝"	No	Precision Ball	Firm	Gray	**426A72**
	1¼"	360 lb.	⅜"	1⅝"	No	Precision Ball	Firm	Blue	**426A64**
	1¼"	375 lb.	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LU15**
	1½"	450 lb.	⅜"	1¾"	No	Delrin	Firm	Maroon	**26Y375**
	1½"	450 lb.	⅜"	1¾"	No	Precision Ball	Firm	Maroon	**26Y376**
	2"	750 lb.	½"	2 9/16"	No	Delrin	Hard	Gray	**490V06**
	2"	750 lb.	½"	2 7/16"	No	Roller	Firm	Red	**1ULR8**
	2"	750 lb.	½"	2½"	No	Roller	Firm	Gray	**3G304**
6"	1½"	450 lb.	⅜"	2⅛"	No	Delrin	Firm	Maroon	**26Y383**
	2"	650 lb.	½"	2 9/16"	No	Roller	Firm	Red	**2RZD9**
	2"	800 lb.	½"	2 7/16"	No	Roller	Firm	Gray	**400K89**
	2"	900 lb.	½"	2 9/16"	No	Delrin	Firm	Blue	**2RZD8**
	2"	900 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**2RZE2**
	2"	900 lb.	½"	2 7/16"	No	Roller	Firm	Red	**426A69**
	2"	1100 lb.	½"	2 9/16"	No	Roller	Firm	Blue	**400K31**
8"	2"	900 lb.	½"	2 9/16"	No	Roller	Firm	Red	**1ULT1**
	2"	900 lb.	½"	2 9/16"	No	Roller	Firm	Blue	**2RZF2**
	2"	900 lb.	½"	2 9/16"	No	Delrin	Firm	Blue	**2RZF5**
	2"	900 lb.	½"	2 7/16"	No	Roller	Firm	Gray	**416P25**
Polyurethane Core									
4"	2¼"	1000 lb.	½"	2 7/16"	No	Precision Ball	Hard	Green	**2RZA9**
	2"	650 lb.	½"	2 7/16"	No	Roller	Firm	Red	**2RZD6**
5"	2"	750 lb.	½"	2 9/16"	No	Precision Ball	Hard	Green	**489A90**
	2"	1000 lb.	½"	2 9/16"	No	Precision Ball	Hard	Green	**2RZD1**
6"	2"	900 lb.	½"	2 9/16"	No	Precision Ball	Hard	Green	**5VT68**
8"	2"	1000 lb.	½"	2 9/16"	No	Precision Ball	Hard	Green	**489A91**
Rubber Core									
3"	1"	125 lb.	5/16"	1 3/16"	No	Plain	Firm	Maroon	**26Y331**



Aluminum Core
No. 2RZE7



Iron Core
No. 4DB70



Steel Core
No. 19YU64

GA GRAINGER APPROVED

Polyurethane Tread on Metal Core Wheels

These wheels have metal cores and typically provide higher weight capacities than wheels with plastic cores. The wheels' polyurethane treads resist abrasion and chemicals, roll quietly, and will not mark floors. **Aluminum** wheel cores are lighter and more resistant to rust and corrosion than iron or steel cores. **Iron** wheel cores provide good wear resistance and must be used in dry environments to avoid rusting. **Steel** wheel cores provide more wear resistance and have higher load capacities than iron or aluminum wheel cores. They must be used in dry environments to avoid rusting.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/ Tread Hardness Rating	Wheel Color	Item No.
Aluminum Core									
3"	1¼"	210 lb.	5/16"	1½"	No	Delrin	Firm	Maroon	**26Y397**
4"	2"	600 lb.	½"	2 3/16"	No	Delrin	Hard	Gray	**26Y434**
	2"	600 lb.	½", ¾"	2 7/16"	Yes	Roller	Firm	Blue	**26Y433**
	2"	650 lb.	½"	2½"	No	Precision Ball	Firm	Orange	**49H856**
	2"	700 lb.	½"	2 7/16"	No	Roller	Hard	Green	**3G270**
5"	2"	750 lb.	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H857**
	2"	900 lb.	½"	2 3/16"	No	Roller	Firm	Blue	**402M60**
	2"	1050 lb.	½"	2 3/16"	No	Roller	Firm	Red	**2RZD7**
	2"	1050 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU78**
	2"	1050 lb.	½"	2 7/16"	No	Roller	Hard	Green	**3G271**
	2"	1250 lb.	½"	2 3/16"	No	Roller	Firm	Blue	**2RZD2**
6"	2"	900 lb.	½"	2 3/16"	No	Roller	Hard	Gray	**26Y436**
	2"	1000 lb.	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H858**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Firm	Blue	**2RZE1**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Firm	Red	**2RZE7**
	2"	1230 lb.	½"	2 7/16"	No	Roller	Hard	Green	**3G272**
	2"	1230 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU79**
	2"	1250 lb.	½"	2 7/16"	No	Precision Ball	Firm	Green	**16V363**
7⅞"	2"	1760 lb.	¾"	2⅜"	No	Precision Ball	Firm	Tan	**40L506**
8"	2"	900 lb.	½", ¾"	2 7/16"	Yes	Roller	Firm	Blue	**26Y437**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Firm	Blue	**2RZF3**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Firm	Red	**2RZE9**
	2"	1200 lb.	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H859**
	2"	1250 lb.	½"	2 3/16"	No	Roller	Firm	Green	**2RZE8**
	2"	1500 lb.	½"	2 7/16"	No	Roller	Hard	Green	**3G273**
	2"	1500 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU80**
	2½"	1500 lb.	½"	2 11/16"	No	Roller	Firm	Blue	**2RZF6**
10"	2½"	1750 lb.	½"	2 11/16"	No	Roller	Firm	Blue	**2RZF7**
Iron Core									
3"	1"	125 lb.	5/16"	1 3/16"	No	Plain	Firm	Blue	**2RZA7**
4"	1"	140 lb.	5/16"	1⅛"	No	Plain	Firm	Blue	**2RZC3**
	1¼"	350 lb.	⅜"	1½"	No	Precision Ball	Hard	Gray	**2RZC1**
	1¼"	400 lb.	⅜"	1⅝"	No	Precision Ball	Firm	Orange	**45XC22**
	1½"	375 lb.	⅜"	1¾"	No	Delrin	Firm	Maroon	**26Y362**
	1½"	375 lb.	⅜"	1¾"	No	Precision Ball	Firm	Maroon	**26Y363**
	2"	600 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC2**
	2"	700 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC6**
	2"	750 lb.	½"	2¼"	No	Precision Ball	Firm	Green	**4DU67**
	2"	750 lb.	¾"	2¼"	No	Roller	Firm	Green	**423J16**
	2"	975 lb.	½"	2½"	No	Precision Ball	Hard	Black	**49H454**
5"	1½"	935 lb.	½"	2⅜"	No	Roller	Firm	Tan	**5VF30**
	2"	1050 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU84**
	1½"	1600 lb.	½"	2¼"	No	Precision Ball	Firm	Tan	**5VF35**
	1½"	1600 lb.	½"	2⅜"	No	Roller	Firm	Maroon	**5VF34**
	2"	960 lb.	½"	2¼"	No	Precision Ball	Firm	Blue	**4DB70**
	2"	1200 lb.	½"	2¼"	No	Precision Ball	Firm	Green	**4DU68**
	2"	1200 lb.	¾"	2¼"	No	Roller	Firm	Green	**5VJ61**
6"	2"	1230 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU85**
	2"	1560 lb.	½"	2½"	No	Precision Ball	Hard	Black	**49H455**
	2½"	1600 lb.	1"	3¼"	No	Roller	Firm	Green	**5VJ67**
	3"	2200 lb.	¾"	3¼"	No	Precision Ball	Firm	Green	**4DU69**
	3"	2200 lb.	1"	3¼"	No	Roller	Firm	Green	**5VJ72**
	3"	2860 lb.	¾"	3½"	No	Precision Ball	Hard	Black	**49H457**
8"	1¾"	2420 lb.	½"	2⅜"	No	Roller	Firm	Maroon	**5VF41**
	2"	1200 lb.	½"	2¼"	No	Precision Ball	Firm	Blue	**4DB71**
	2"	1500 lb.	½"	2¼"	No	Precision Ball	Firm	Green	**4DU70**
	2"	1500 lb.	½"	2 7/16"	No	Roller	Firm	Blue	**29XU87**
	2"	1500 lb.	¾"	2¼"	No	Roller	Firm	Green	**5VJ82**
	2"	1950 lb.	½"	2½"	No	Precision Ball	Hard	Black	**49H456**
	2½"	1800 lb.	¾"	3½"	No	Roller	Firm	Blue	**29XU88**
	3"	2500 lb.	¾"	3¼"	No	Precision Ball	Firm	Green	**4DU71**
	3"	2500 lb.	¾"	3½"	No	Roller	Firm	Blue	**29XU35**
	3"	2500 lb.	1"	3¼"	No	Roller	Firm	Green	**5VJ90**
	3"	3950 lb.	1"	3½"	No	Tapered Roller	Firm	Tan	**5VF44**
	4"	3500 lb.	1¼"	4½"	No	Roller	Firm	Blue	**29XU38**
10"	1¾"	2640 lb.	⅝"	2¼"	No	Precision Ball	Firm	Tan	**5VF50**
	1¾"	2640 lb.	⅝"	2⅜"	No	Roller	Firm	Tan	**5VF49**
	3"	3000 lb.	¾"	3¼"	No	Precision Ball	Firm	Green	**4DU72**
	3"	3000 lb.	1"	3¼"	No	Roller	Firm	Green	**5VJ33**
12"	1¾"	3080 lb.	⅝"	2⅜"	No	Roller	Firm	Tan	**5VF55**
	3"	3500 lb.	1"	3¼"	No	Roller	Firm	Green	**5VJ42**
Steel Core									
3"	3"	1100 lb.	¾"	2 15/16"	No	Precision Ball	Firm	Yellow	**19YU64**
10"	4"	5000 lb.	1¼"	4½"	No	Precision Ball	Firm	Blue	**5VJ41**
12"	4"	6000 lb.	1¼"	4½"	No	Tapered Roller	Firm	Blue	**5VJ43**



Ergonomic
No. 490V04



Heat-Resistant
No. 406P64



Nylon Tread
No. 5VF22

GA GRAINGER APPROVED

Nylon Tread Wheels

Nylon tread wheels are hard, lightweight, and will not mark floors. They withstand exposure to solvents, corrosive environments, and temperature extremes, but they are not recommended for heavily acidic or basic environments. The wheels can be steam cleaned and will not chunk or separate. **Ergonomic** wheels roll smoothly and provide very low resistance to rolling and swiveling. **Heat-resistant** wheels are made from reinforced nylon and withstand exposure to very high temperatures. **Nylon tread wheels for pallet jacks** are sized to fit pallet jacks and can carry heavy loads for their size.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Ergonomic Nylon Tread								
2⅝"	1⅝"	1400 lb.	9/16"	1 13/16"	No	Precision Ball	White	**490U96**
3⅛"	1½"	350 lb.	9/16"	1 11/16"	No	Precision Ball	Gray	**490V04**
	1⅝"	2200 lb.	¾"	1 13/16"	No	Precision Ball	White	**490U97**
3 5/16"	3"	1760 lb.	1 1/16"	3 5/64"	No	Precision Ball	White	**489D24**
4"	2"	3000 lb.	½"	2 3/16"	No	Precision Ball	Black	**454N26**
4⅞"	1⅝"	660 lb.	⅜"	1 13/16"	No	Precision Ball	Gray	**490V03**
7⅛"	2"	2200 lb.	13/16"	2⅜"	No	Precision Ball	Gray	**489C50**
8"	2"	3000 lb.	½"	2 3/16"	No	Precision Ball	Beige	**489A84**
Heat-Resistant Nylon Tread								
3½"	1⅜"	700 lb.	½"	1½"	No	Plain	Black	**406P64**
4"	1¼"	700 lb.	½"	1⅜"	No	Plain	Black	**5VR55**
	2"	800 lb.	½"	2 1/16"	No	Roller	Black	**5VR56**
	2"	800 lb.	¾"	2 3/16"	No	Plain	—	**55GZ64**
5"	1⅜"	800 lb.	½"	1½"	No	—	Black	**416P31**
	2"	1000 lb.	½"	2 1/16"	No	Roller	Black	**5VR58**
6"	2"	1200 lb.	¾"	2 3/16"	No	Plain	—	**55GZ55**
8"	2"	1400 lb.	½"	2 1/16"	No	Roller	Black	**5VR60**
	2"	1400 lb.	¾"	2 3/16"	No	Sleeve Bearing	—	**55GZ58**
Nylon Tread								
2"	1"	550 lb.	25/64"	1"	No	Plain	Black	**24WK28**
2 9/16"	1⅜"	715 lb.	15/32"	1 11/16"	No	Roller	White	**5VF22**
3"	1⅜"	350 lb.	7/16"	1¾"	No	Plain	White	**4DB76**
	1¼"	660 lb.	½"	1 1/16"	No	Precision Ball	White	**40L476**
3⅛"	1⅝"	2200 lb.	¾"	1 13/16"	No	Precision Ball	Beige	**40L483**
3¼"	2"	700 lb.	½"	2 3/16"	No	Roller	Black	**5VR61**
3⅜"	3"	900 lb.	½"	2⅞"	No	Precision Ball	White	**5VF24**
3⅞"	1⅝"	2750 lb.	¾"	1 13/16"	No	Precision Ball	Beige	**40L484**
	2⅛"	3300 lb.	1"	2⅜"	No	Precision Ball	Beige	**40L485**
4"	1½"	1100 lb.	½"	1⅞"	No	Precision Ball	White	**40L477**
	2"	2000 lb.	½"	2½"	No	Precision Ball	Gray	**29XU98**
	2"	2000 lb.	¾"	2½"	No	Precision Ball	Black	**49H445**
	2"	2160 lb.	½"	2 3/16"	No	Precision Ball	Black	**1VJJ5**
4⅞"	2"	1650 lb.	¾"	2⅜"	No	Precision Ball	White	**40L478**
	2⅛"	4400 lb.	1"	2⅜"	No	Precision Ball	Beige	**40L486**
5"	1⅜"	580 lb.	7/16"	1¾"	No	Plain	White	**4DB78**
	2"	1000 lb.	½"	2 3/16"	No	Roller	Black	**2RZH1**
	2"	2000 lb.	½"	2½"	No	Precision Ball	Gray	**29XU99**
	2"	3000 lb.	½"	2 3/16"	No	Precision Ball	Black	**1VJJ7**
5⅛"	2"	1760 lb.	¾"	2⅜"	No	Precision Ball	White	**40L479**
	2⅛"	5500 lb.	1 3/16"	2⅜"	No	Precision Ball	Beige	**40L487**
	3⅛"	6600 lb.	1⅜"	3½"	No	Precision Ball	Beige	**40L488**
6"	2"	720 lb.	½"	2 3/16"	No	Precision Ball	White	**16V305**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Black	**2RZH2**
	2"	2300 lb.	½"	2¼"	No	Precision Ball	Black	**49H446**
	2"	3000 lb.	½"	2 3/16"	No	Precision Ball	Black	**1VJJ9**
	3"	5400 lb.	¾"	3¼"	No	Precision Ball	Black	**49H448**
7⅛"	2⅛"	6600 lb.	1⅜"	2⅜"	No	Precision Ball	Beige	**40L489**
8"	2"	1400 lb.	½"	2 1/16"	No	Roller	Black	**2RZH3**
	2"	2500 lb.	½"	2¼"	No	Precision Ball	Black	**49H447**
	2"	3000 lb.	½"	2 3/16"	No	Precision Ball	Black	**440A69**
	3"	7200 lb.	¾"	3¼"	No	Precision Ball	Black	**52YU21**
	3"	7200 lb.	¾"	3¼"	No	Precision Ball	Black	**440A65**
9 13/16"	2⅝"	11,020 lb.	1¾"	2 13/16"	No	Precision Ball	Beige	**40L491**
	3⅛"	13,225 lb.	2"	3½"	No	Precision Ball	Beige	**40L492**
10"	2½"	7000 lb.	¾"	3"	No	Precision Ball	Black	**52YU22**
	3"	7200 lb.	¾"	3¼"	No	Precision Ball	Black	**440A66**
	3"	8200 lb.	¾"	3½"	No	Precision Ball	Black	**52YU23**
Nylon Tread for Pallet Jacks								
3⅛"	2⅜"	1320 lb.	¾"	2⅝"	No	Precision Ball	White	**31DM89**
3¼"	2¾"	1540 lb.	¾"	2¾"	No	Precision Ball	White	**31DM94**
	4"	2205 lb.	¾"	3 15/16"	No	Precision Ball	White	**31DM90**
3 5/16"	2⅜"	1430 lb.	¾"	2 23/64"	No	Precision Ball	White	**31DM91**







GA GRAINGER APPROVED

Iron Tread
No. 4DU78

Iron Tread
No. 1VJL4

Heat-Resistant
Iron Tread
No. 55GZ65

Metal Tread Wheels

Metal tread wheels offer high weight capacities and withstand shock, abrasion, impact, rough use, and exposure to temperature extremes. They are suitable for moving heavy loads over rough terrain. The wheels' tread and core are made from the same material. **Iron** wheels withstand exposure to corrosive chemicals, grease, and oils better than steel. **Steel** wheels can bear heavier loads than iron wheels. **Heat-resistant** wheels have double-shielded maintenance-free bearings and an enamel coating that allow the wheels to withstand exposure to very high temperatures.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Iron Tread Wheels								
3"	1¼"	450 lb.	⅜"	1½"	No	Roller	Silver	**26Y417**
3⅛"	1"	550 lb.	½"	1⅜"	No	Plain	Silver	**487H31**
3¼"	2"	700 lb.	½"	2 3/16"	No	Roller	Black	**2RZK1**
4"	1½"	650 lb.	⅜", ½"	1⅝"	Yes	Roller	Silver	**26Y418**
	1¾"	700 lb.	½"	2 1/16"	No	Roller	Silver	**5VF26**
	2"	700 lb.	½"	2 3/16"	No	Roller	Gray	**489A88**
	2"	700 lb.	½"	2 1/16"	No	Roller	Black	**2RYY5**
	2"	1000 lb.	½"	2¼"	No	Precision Ball	Red	**4DU77**
	2"	1000 lb.	½", ¾"	2 1/16"	Yes	Roller	Silver	**26Y438**
	2"	1000 lb.	¾"	2¼"	No	Roller	Red	**5VJ50**
5"	1¾"	1385 lb.	½"	2 1/16"	No	Roller	Silver	**5VF28**
	2"	800 lb.	½"	2 3/16"	No	Roller	Silver	**490V01**
	2"	1000 lb.	½"	2 1/16"	No	Roller	Black	**2RYY7**
	2"	1300 lb.	½"	2 1/16"	No	Roller	Gray	**26Y439**
	2"	1500 lb.	½"	2 3/16"	No	Roller	Silver	**1VJL1**
	2"	1700 lb.	½"	2 1/16"	No	Roller	Black	**426A70**
6"	1¾"	1200 lb.	½"	2⅜"	No	Roller	Silver	**5VF31**
	2"	1000 lb.	½"	2 3/16"	No	Roller	Silver	**490V02**
	2"	1200 lb.	½"	2 3/16"	No	Roller	Silver	**455T86**
	2"	1200 lb.	½"	2 1/16"	No	Roller	Black	**2RYY8**
	2"	1400 lb.	½"	2¼"	No	Precision Ball	Red	**4DU78**
	2"	1400 lb.	½"	2 1/16"	No	Roller	Gray	**26Y440**
	2"	1400 lb.	¾"	2¼"	No	Roller	Red	**5VJ62**
	2"	2000 lb.	½"	2 3/16"	No	Roller	Black	**400K32**
	2½"	3500 lb.	1"	3¼"	No	Roller	Red	**52YU24**
	3"	6000 lb.	½"	3¼"	No	Roller	Black	**1VJL4**
	3"	6000 lb.	1"	3¼"	No	Roller	Red	**52YU25**
8"	1¾"	2525 lb.	½"	2⅜"	No	Roller	Gray	**5VF38**
	2"	1400 lb.	½"	2 3/16"	No	Roller	Silver	**455T87**
	2"	1400 lb.	½"	2 1/16"	No	Roller	Black	**2RYZ2**
	2"	1500 lb.	½"	2 3/16"	No	Roller	Black	**1VJL5**
	2"	1800 lb.	½", ¾"	2 1/16"	Yes	Roller	Silver	**26Y441**
	2½"	1750 lb.	½"	2 3/16"	No	Roller	Gray	**2RYZ1**
	3"	2600 lb.	1"	3¼"	No	Roller	Red	**5VJ93**
9 13/16"	2⅜"	3085 lb.	1"	2 13/16"	No	Plain	Silver	**490U94**
	2⅜"	3085 lb.	1"	2 13/16"	No	Plain	Silver	**490U95**
10"	2⅛"	2750 lb.	⅝"	2⅜"	No	Roller	Gray	**5VF48**
Heat-Resistant Iron Tread Wheels								
4"	2"	800 lb.	½"	2¼"	Yes	Precision Ball	—	**55GZ65**
6"	2"	1100 lb.	½"	2¼"	Yes	Precision Ball	—	**55GZ56**
	2"	1600 lb.	½"	2½"	Yes	Precision Ball	—	**55GZ57**
	3"	2000 lb.	¾"	3½"	No	Precision Ball	—	**55GZ60**
8"	2"	1200 lb.	½"	2¼"	Yes	Precision Ball	—	**55GZ59**
	3"	2080 lb.	¾"	3½"	No	Precision Ball	—	**55GZ62**
Steel Tread Wheels								
5⅞"	2¼"	8815 lb.	1¾"	2⅜"	No	Precision Ball	Gray	**489A89**
6"	2"	1800 lb.	½"	2 1/16"	No	Roller	Blue	**29XU93**
	2"	2500 lb.	½"	2¼"	No	Precision Ball	Gray	**4DU73**
	2"	2500 lb.	¾"	2¼"	No	Roller	Gray	**423J17**
	2½"	5000 lb.	¾"	3¼"	No	Roller	Silver	**52YU31**
	2½"	5000 lb.	¾"	3½"	No	Roller	Blue	**29XU94**
	3"	4000 lb.	¾"	3¼"	No	Precision Ball	Silver	**4DU74**
	3"	6000 lb.	1"	3¼"	No	Roller	Silver	**5VJ73**
	3"	10,000 lb.	1¼"	3½"	No	Tapered Roller	Blue	**29XU95**
	3"	12,000 lb.	1¼"	3¼"	No	Tapered Roller	Silver	**5VJ75**
8"	2½"	5000 lb.	¾"	3¼"	No	Roller	Silver	**52YU36**
	3"	6000 lb.	1"	3¼"	No	Roller	Silver	**5VJ91**
	3"	7000 lb.	¾"	3¼"	No	Precision Ball	Silver	**4DU75**
	3"	10,000 lb.	1¼"	3½"	No	Tapered Roller	Blue	**29XU97**
	3"	14,000 lb.	1¼"	3½"	No	Tapered Roller	Silver	**52YU33**
10"	3"	6500 lb.	¾"	3¼"	No	Precision Ball	Silver	**4DU76**
Heat-Resistant Steel Tread Wheels								
4"	1½"	1100 lb.	½"	2½"	Yes	Precision Ball	—	**55GZ66**
6"	3"	4000 lb.	¾"	3½"	No	Precision Ball	—	**55GZ61**
	3"	5000 lb.	1¼"	3½"	Yes	Precision Ball	—	**55GZ67**
8"	3"	4500 lb.	¾"	3½"	No	Precision Ball	—	**55GZ63**
	3"	6000 lb.	1¼"	3½"	Yes	Precision Ball	—	**55GZ68**
10"	4"	6700 lb.	1¼"	4¼"	Yes	Precision Ball	—	**55GZ69**
12"	4"	7000 lb.	1¼"	4½"	Yes	Precision Ball	—	**55GZ70**



Polyurethane Tread
No. 2LE91



Thermoplastic Rubber Tread
No. 483N33

GA GRAINGER APPROVED

Antimicrobial Wheels

These wheels are impregnated with an antimicrobial compound that stops damaging, odor-causing microbes from growing on them. They have a lightweight, corrosion-resistant plastic core. **Polyurethane** treads will not mark floors and are more resistant to abrasion and chemicals than rubber treads. **Rubber** treads are suitable for most floor types. **Thermoplastic rubber** treads withstand exposure to chemicals and water and will not damage floors.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/Tread Hardness Rating	Wheel Color	Item No.
Polyurethane Tread									
3"	1¼"	300 lb.	½"	1 7/16"	No	Delrin	Hard	Teal	**2LE87**
3½"	1¼"	360 lb.	½"	1 7/16"	No	Delrin	Hard	Gray	**2LE89**
4"	1¼"	400 lb.	½"	1 7/16"	No	Delrin	Hard	Teal	**2LE91**
	2"	550 lb.	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N30**
5"	1¼"	440 lb.	⅜"	1 7/16"	No	Delrin	Hard	Teal	**2LE93**
	2"	750 lb.	½"	2 3/16"	No	Roller	Hard	Gray	**2LU39**
6"	2"	770 lb.	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N31**
	2"	900 lb.	½"	2 3/16"	No	Roller	Hard	Gray	**2LU41**
8"	2"	880 lb.	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N32**
	2"	1000 lb.	½"	2 3/16"	No	Roller	Hard	Gray	**2LE85**
Rubber Tread									
3½"	1¼"	250 lb.	½"	1 7/16"	No	Delrin	Firm	Teal	**2LU53**
Thermoplastic Rubber Tread									
3"	1¼"	200 lb.	⅜"	1 7/16"	No	Precision Ball	Firm	Gray	**483N33**
	1¼"	250 lb.	½"	1 7/16"	No	Delrin	Firm	Gray	**2LU51**
3½"	1¼"	250 lb.	⅜"	1 7/16"	No	Precision Ball	Firm	Teal	**2LU35**
4"	1¼"	325 lb.	⅜"	1 7/16"	No	Precision Ball	Firm	Teal	**2LU47**
5"	1¼"	200 lb.	⅜"	1 7/16"	No	Precision Ball	Firm	Gray	**2LU49**
8"	2"	500 lb.	½"	2 3/16"	No	Precision Ball	Firm	Gray	**2LU65**



No. 20PM11

GA GRAINGER APPROVED

Conductive Rubber Tread on Plastic Core Wheels

These wheels have a lightweight, corrosion-resistant plastic core and a conductive rubber tread that disperses static electricity by letting it flow to the ground. They are used on carts in medical settings, laboratories, computer rooms, cleanrooms, electronics manufacturing facilities, and other areas where static electricity buildup is a concern. They dissipate static electricity buildup that can damage equipment on the carts, injure people who touch the carts, or cause sparks that can ignite flammable vapors near the carts. The wheels have precision ball bearings and will not mark floors.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel/Tread Hardness Rating	Item No.
3½"	1¼"	225 lb.	⅜"	1½"	No	Soft	**20PM11**
4"	1¼"	250 lb.	⅜"	1½"	No	Soft	**20PM12**
	2"	300 lb.	½"	2 3/16"	No	Firm	**20PM14**
5"	1¼"	250 lb.	⅜"	1½"	No	Soft	**20PM13**
	2"	325 lb.	½"	2 7/16"	No	Soft	**20PM15**
6"	2"	410 lb.	½"	2 7/16"	No	Soft	**20PM16**
8"	2"	500 lb.	½"	2 3/16"	No	Firm	**20PM17**



Polyurethane V-Groove
No. 3G307



Steel V-Groove
No. 52YU29



Steel Single-Flange
No. 5VK07



Steel Dual-Flange
No. 5VK06

GA GRAINGER APPROVED

V-Groove and Flanged Track Wheels

Track wheels fit into compatible steel tracks or rails and provide precise control over movement and alignment when installed on containers, racks, and other equipment that will be moving between two locations, such as from one machine to another, into and out of an oven, or between points on an assembly line. **V-groove** wheels have a V-shaped tread that mates with a compatible angle-iron track. They have flat edges and can also roll on flat surfaces. **Single-flange** wheels have one flange that guides the wheels along a flat track or rail. They create less friction between the wheel and the track or rail than dual-flange wheels. **Dual-flange** wheels have two flanges that guide the wheels along a flat track or rail. They maintain their alignment better than single-flange wheels in applications with impact loads, debris, or obstructions.

Wheel Dia.	Wheel Width	Load Rating	Wheel/Tread Material	Wheel Bearing Type	For Axle Size	Wheel Color	Item No.
V-Groove							
4"	1½"	400 lb.	Iron	Roller	⅜"	Silver	**400K35**
	1½"	400 lb.	Iron	Roller	½"	Silver	**400K36**
	1½"	600 lb.	Steel	Roller	¾"	Red	**5VJ44**
	1½"	800 lb.	Iron	Roller	½"	Black	**1NWB8**
	2"	300 lb.	Polyurethane	Roller	½"	Green	**3G307**
	2"	800 lb.	Iron	Roller	½"	Black	**1NWF9**
	2"	800 lb.	Iron	Roller	¾"	Black	**5VJ53**
	2"	850 lb.	Stainless Steel	Precision Ball	½"	Silver	**1UBN1**
5"	2"	800 lb.	Iron	Roller	½", ¾"	Silver	**3G299**
	2"	900 lb.	Iron	Roller	½"	Black	**1NWG1**
5⅞"	1⅜"	1760 lb.	Steel	Precision Ball	¾"	Silver	**454Y24**
6"	2"	1000 lb.	Iron	Roller	¾"	Red	**5VJ80**
	2"	1200 lb.	Iron	Roller	½"	Black	**1NWB9**
	2"	1200 lb.	Stainless Steel	Precision Ball	½"	Silver	**1UBN3**
	2½"	900 lb.	Iron	Roller	¾"	Black	**1NWC1**
	2¾"	2500 lb.	Iron	Roller	1"	Red	**5VJ71**
	3"	4500 lb.	Steel	Roller	1"	Silver	**52YU37**
	3"	5000 lb.	Steel	Tapered Roller	¾"	Silver	**52YU29**
	3"	7000 lb.	Steel	Tapered Roller	¾"	Blue	**29XU91**
7⅞"	1⅜"	2204 lb.	Steel	Precision Ball	¾"	Silver	**454N71**
8"	2½"	2000 lb.	Iron	Roller	¾"	Black	**1NWG5**
	2¾"	2500 lb.	Steel	Roller	1"	Red	**5VJ81**
	3"	550 lb.	Steel	Tapered Roller	¾"	Silver	**52YU30**
	4"	6500 lb.	Steel	Roller	1"	Silver	**52YU38**
	4"	6500 lb.	Steel	Roller	1¼"	Silver	**52YU19**
	4"	15,000 lb.	Steel	Precision Ball	1¼"	Gray	**5VK01**
10"	2½"	2500 lb.	Metal	Roller	1¼"	Red	**52YU17**
	3"	3000 lb.	Steel	Roller	1"	Red	**5VJ30**
Single-Flange							
3½"	1½"	1400 lb.	Iron	Roller	¾"	Red	**5VK03**
4½"	1⅝"	3000 lb.	Steel	Roller	1"	Red	**5VK04**
4 15/16"	1½"	1500 lb.	Iron	Roller	¾"	Red	**5VK05**
5"	2⅛"	4300 lb.	Steel	Roller	1"	Gray	**5VK07**
6⅛"	1¾"	2500 lb.	Iron	Roller	1"	Red	**5VK09**
8"	2¼"	4500 lb.	Iron	Roller	1"	Red	**5VK10**
Dual-Flange							
5"	1¾"	5000 lb.	Steel	Roller	1"	Silver	**5VK06**
6"	2⅛"	2500 lb.	Iron	Roller	1"	Red	**5VK08**

Tread Type Information

Tread Type

Tread refers to the part of a wheel that makes contact with a surface when rolling. Wheel treads may be smooth, or they may have ridges, bumps, or other features that provide maneuverability or traction.

Ribbed—Provides good contact on many surfaces.

Sawtooth—Provides traction and maneuverability on turf and grass.

Diamond—Offers two-way traction on soft ground or snow.

Centipede—Keeps wheels from slipping.

Smooth—Allows wheels to roll on tacky surfaces such as tar or asphalt.

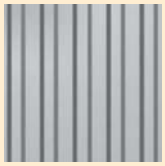
Knobby—Offers traction on soft ground or snow.

Turf—Provides traction and helps prevents damage when rolling on lawns and other soft surfaces.

Hub Type

Center-mount hubs have equal clearance on all sides of the hub.

Offset hubs provide extra clearance between the wheel and the equipment it is mounted on.

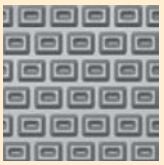

Ribbed


Sawtooth


Diamond


Centipede


Smooth


Knobby


Turf


Center-Mount Hub w/ Centipede Tread No. 2RZJ3


Offset Hub w/ Sawtooth Tread No. 4DE47

GA GRAINGER APPROVED MARASTAR

Pneumatic Wheels

Pneumatic wheels are filled with air to cushion loads against shock and vibration. They provide a quieter, more cushioned ride than semipneumatic and flat-free wheels but require maintenance to keep them filled to the correct pressure. They can be punctured and are recommended for areas without sharp debris.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Tread Color	Brand	PNEUMATIC WHEEL Item No.	REPLACEMENT TIRE AND INNER TUBE KIT Item No.	REPLACEMENT TIRE Item No.	REPLACEMENT INNER TUBE Item No.
Center-Mount Steel Hub										
Centipede Tread										
6"	1"	150 lb.	½"	2 7/16"	Black	GA	53CM80	—	—	—
	1"	200 lb.	½"	2 7/16"	Gray	Marastar	26W995	—	—	—
6¼"	2½"	200 lb.	½"	2¼"	Gray	GA	2RZJ3	—	—	—
Diamond Tread										
15 11/32"	3⅜"	670 lb.	⅝"	6"	Black	GA	1NWV6	—	1NWY1	—
Ribbed Tread										
13"	3¼"	350 lb.	⅝"	4"	Black	GA	1NWV2	—	32RU45	—
13 3/16"	3⅝"	350 lb.	⅝"	6"	Black	GA	1NWV3	—	1NWX6	1NWX7
15 5/32"	3⅛"	435 lb.	⅝"	4"	Black	GA	1NWV4	—	1NWX8	—
	3⅛"	435 lb.	⅝"	6"	Black	GA	1NWV5	—	1NWX8	—
15 11/32"	3⅜"	435 lb.	¾"	6"	Black	GA	1NWV7	—	1NWX8	1NWY2
	3½"	670 lb.	¾"	6"	Black	GA	1NWV8	1NWX9	—	1NWY2
Sawtooth Tread										
8"	2⅜"	220 lb.	½"	3"	Black	GA	1NWU2	1NWX1	—	32RU43
	4⅞"	295 lb.	½"	3½"	Black	GA	1NWU3	1NWX1	—	—
8½"	2"	220 lb.	½"	3½"	Gray	Marastar	26W996	—	—	—
	2"	250 lb.	½"	3½"	Black	GA	53CM81	—	—	—
9"	2½"	300 lb.	½"	3⅛"	Gray	GA	2RZJ4	—	—	—
10"	2⅛"	350 lb.	½"	3½"	Black	GA	1NWU7	1NWX2	—	—
	3"	230 lb.	⅝"	3¼"	Black	GA	1NWU6	1NWX2	—	1NWX4
	3"	350 lb.	¼"	3½"	Black	GA	53CM82	—	—	—
	3"	350 lb.	½"	3½"	Gray	Marastar	26W997	—	—	—
10⅝"	2½"	350 lb.	½"	3¾"	Gray	GA	2RZJ5	1NWX2	—	—
12¼"	1⅞"	445 lb.	¾"	4½"	Black	GA	1NWV1	—	—	—
	2⅛"	290 lb.	⅝"	3¼"	Black	GA	1NWU8	—	1NWX5	32RU44
	3½"	290 lb.	¾"	3¼"	Black	GA	1NWU9	—	1NWX5	1NWX7
14¼"	2"	565 lb.	¾"	4½"	Black	GA	1NWV9	—	—	32RU46
Offset Plastic Hub										
Sawtooth Tread										
10"	3"	350 lb.	⅝"	2¼"	Black	Marastar	4DE47	1NWX2	—	—
Offset Steel Hub										
Sawtooth Tread										
8"	2⅞"	300 lb.	¾"	2⅞"	Black	GA	1NWU4	1NWX1	—	—
10"	3"	350 lb.	⅝"	2¼"	Black	GA	53CM94	—	—	—
	4⅛"	230 lb.	⅝"	2¼"	Black	GA	1NWU5	—	1NWX3	—


Center-Mount Hub No. 1NWZ9


Offset Hub No. 1NXA2

GA GRAINGER APPROVED

Semipneumatic Wheels

Semipneumatic wheels have a thick rubber wall with a nonpressurized air pocket in the center that cushions loads against shock and vibration. They will not go flat if punctured and can be used in areas that may contain sharp debris. Semipneumatic wheels are lighter than flat-free wheels, and they require less maintenance than pneumatic wheels because they do not have to have their air pressure checked.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Item No.
Center-Mount Steel Hub, Ribbed Tread					
6"	4"	55 lb.	½"	1⅜"	1NXA6
8"	2⅝"	150 lb.	½"	2⅛"	1NXA8
	3"	60 lb.	½"	1⅜"	1NXA7
10"	1¾"	80 lb.	½"	1½"	1NXA9
	3⅞"	200 lb.	⅝"	2¼"	1NXC1
	3⅞"	200 lb.	¾"	2¾"	1NXC2
	3⅞"	300 lb.	⅝"	3¼"	1NWZ1
12"	2⅝"	90 lb.	½"	1½"	1NXB1
	3⅞"	140 lb.	⅝"	3¼"	1NXC3
	3⅞"	185 lb.	¾"	3¼"	1NXC4
14"	1¾"	175 lb.	⅝"	2⅛"	1NXB3
	3½"	100 lb.	½"	2⅛"	1NXB2
16"	3⅝"	450 lb.	¾"	6"	1NWZ9
	3⅝"	450 lb.	1"	4"	1NWZ8
Offset Steel Hub, Diamond Tread					
6"	3⅝"	50 lb.	½"	1⅜"	1NXA2
	3⅝"	55 lb.	½"	1⅜"	1NXA1
7"	3⅝"	55 lb.	½"	1⅜"	1NXA3
8"	2⅝"	60 lb.	½"	1⅜"	1NXA5
	3⅝"	55 lb.	½"	1⅜"	1NXA4



Center-Mount
No. 16V340



Offset Hub
No. 22NY39

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Brand	Item No.
Center-Mount Plastic Hub						
Ribbed Tread						
6⅛"	1⅞"	550 lb.	⅝"	3¼"	Marastar	**40N436**
	1⅞"	550 lb.	¾"	3¼"	Marastar	**40N437**
Center-Mount Steel Hub						
Centipede Tread						
6"	2"	250 lb.	½"	2⁷⁄₁₆"	GA	**53CM75**
8"	1½"	280 lb.	½"	2⁷⁄₁₆"	Marastar	**16V340**
	2"	300 lb.	½"	2⁷⁄₁₆"	GA	**53CM76**
Knobby Tread						
15½"	3¼"	500 lb.	⅝"	6"	Marastar	**46G098**
	3½"	500 lb.	¾"	3"	Marastar	**46G099**
	4"	375 lb.	⅝"	6"	GA	**53CM70**
	4"	375 lb.	¾"	3"	GA	**53CM71**
Ribbed Tread						
6"	2"	200 lb.	½"	2½"	GA	**1NWY3**
	3⅜"	200 lb.	⅝"	2¼"	GA	**1NWY7**
	3½"	200 lb.	⅝"	2¼"	GA	**1NXB4**
	3½"	250 lb.	¾"	2¼"	GA	**1NXB6**
8"	2"	600 lb.	¾"	3¼"	Marastar	**40N439**
	3⅜"	350 lb.	½"	3"	GA	**1NWY4**
	3¼"	400 lb.	⅝"	2½"	GA	**1NWZ4**
	3⅜"	350 lb.	⅝"	2¾"	GA	**1NWY8**
	3½"	250 lb.	⅝"	2¾"	GA	**1NXB8**
	3⅞"	250 lb.	¾"	2¾"	GA	**1NXB9**
	4"	350 lb.	¾"	2¾"	GA	**1NWY9**
10"	3⅛"	350 lb.	½"	3½"	GA	**1NWY5**
	3¼"	300 lb.	¾"	3"	GA	**1NWZ2**
	6⅜"	450 lb.	⅝"	3¼"	GA	**1NWZ7**
12"	2"	600 lb.	⅝"	3¼"	Marastar	**40N438**
	3¼"	300 lb.	¾"	3¼"	GA	**1NWZ3**
	3⅜"	540 lb.	½"	3½"	GA	**1NWY6**
13⁵⁄₁₆"	1⅞"	350 lb.	¾"	3"	Marastar	**46G090**
	2"	350 lb.	⅝"	3"	Marastar	**46G089**
	2½"	350 lb.	⅝"	6"	Marastar	**46G091**
15½"	3"	500 lb.	⅝"	3"	Marastar	**46G095**
	3"	500 lb.	⅝"	6"	Marastar	**46G096**
	3"	500 lb.	¾"	3"	Marastar	**46G097**
	4"	375 lb.	⅝"	3"	GA	**53CM67**
	4"	375 lb.	¾"	3"	GA	**53CM69**
Sawtooth Tread						
6"	1"	100 lb.	½"	2⅜"	GA	**53CM52**
	3"	325 lb.	¾"	3"	GA	**53CM59**
	3"	325 lb.	¾"	4½"	GA	**53CM60**

Flat-Free Wheels

MARASTAR. GA GRAINGER APPROVED

Flat-free polyurethane foam wheels absorb more shock and provide a more cushioned ride than semipneumatic wheels. They do not need to have their air pressure checked and will not go flat if punctured, making them suitable for rolling over rough or uneven terrain in areas with sharp debris.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Brand	Item No.
6⅛"	1½"	150 lb.	½"	2⅜"	Marastar	**46G080**
8"	1¾"	150 lb.	½"	2⅜"	Marastar	**46G081**
	2"	100 lb.	½"	2⅜"	GA	**53CM53**
8½"	2"	200 lb.	¾"	3"	GA	**53CM47**
	3"	200 lb.	½"	3"	GA	**53CM55**
8⅝"	1¾"	275 lb.	½"	3"	Marastar	**46G083**
10"	3"	225 lb.	⅝"	3½"	GA	**53CM57**
	3"	225 lb.	⅝"	4"	GA	**53CM49**
	3"	225 lb.	¾"	3½"	GA	**53CM58**
	3"	225 lb.	¾"	4"	GA	**53CM50**
10⁵⁄₁₆"	1¾"	300 lb.	⅝"	3½"	Marastar	**46G085**
	1¾"	300 lb.	¾"	3½"	Marastar	**46G086**
12¹³⁄₃₂"	1⅞"	400 lb.	¾"	4³¹⁄₆₄"	Marastar	**46G088**
12⁷⁄₁₆"	1⅞"	400 lb.	¾"	3"	Marastar	**46G087**
15½"	3½"	675 lb.	¾"	3"	GA	**53CM51**
Smooth Tread						
9⁵⁄₁₆"	1¾"	300 lb.	¾"	4"	Marastar	**46G084**
15½"	3⅜"	500 lb.	1"	6"	Marastar	**36LE96**
	4"	425 lb.	1"	6"	GA	**53CM42**
Turf Tread						
6"	3½"	325 lb.	¾"	3"	GA	**53CM64**
6⁵⁄₁₆"	2½"	400 lb.	¾"	3"	Marastar	**46G094**
13⁵⁄₁₆"	2½"	400 lb.	¾"	3³⁄₆₄"	Marastar	**46G092**
13¹⁵⁄₃₂"	2½"	400 lb.	¾"	3³⁄₆₄"	Marastar	**46G093**
Offset Plastic Hub						
Ribbed Tread						
8"	1½"	500 lb.	⅝"	2¼"	Marastar	**16V338**
9⁵⁷⁄₆₄"	1⅞"	550 lb.	¾"	2¼"	Marastar	**40N435**
10"	2"	500 lb.	⅝"	2¼"	GA	**53CM72**
	6¼"	450 lb.	⅝"	2¼"	GA	**1NWZ6**
Offset Steel Hub						
Centipede Tread						
10"	3"	440 lb.	⅝"	2¼"	Marastar	**16V341**
10⁵⁄₁₆"	3"	390 lb.	⅝"	2¼"	GA	**53CM77**
Ribbed Tread						
6"	3½"	200 lb.	⅝"	2¼"	GA	**1NXB5**
	3½"	250 lb.	¾"	2¼"	GA	**1NXB7**
8"	2"	250 lb.	½"	2¼"	GA	**53CM83**
	4½"	400 lb.	⅝"	2¼"	GA	**1NWZ5**
Sawtooth Tread						
8½"	3⅞"	300 lb.	½"	2¼"	GA	**22NY37**
8⅝"	1¾"	275 lb.	⅝"	2¼"	Marastar	**46G082**
10"	3"	225 lb.	⅝"	2¼"	GA	**53CM41**
	3"	350 lb.	⅝"	2¼"	GA	**53CM95**
	3⅜"	300 lb.	⅝"	2¹³⁄₆₄"	Marastar	**36LE95**
10¼"	4¼"	350 lb.	⅝"	2¼"	GA	**22NY38**
10½"	1⅞"	350 lb.	⅝"	2¼"	GA	**22NY39**



No. 5VR16



Plate B

General Purpose Floor Locks

GA GRAINGER APPROVED

General purpose floor locks are made from zinc-plated steel. They mount onto carts and other wheeled equipment and have a foot pedal that users step on to engage a spring-loaded brake pad that presses against the floor to create friction and stop the equipment from moving.

For Wheel Dia.	Floor Lock Retracted Height	Floor Lock Extended Height	For Caster Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
4"	4⅜"	6"	5⅜"	4" x 4½"	B	**5VP58**
	4⅞"	6"	5⅝"	4" x 4½"	B	**16V371**
5"	5½"	6¹³⁄₁₆"	6½"	4" x 4½"	B	**5VP59**
	6¹¹⁄₁₆"	6¹¹⁄₁₆"	5¾"	4¹³⁄₃₂" x 4³¹⁄₆₄"	B	**16V372**
6"	6⅝"	7¹³⁄₁₆"	7¼"	4" x 4½"	B	**5VP60**
	6⅝"	7¹³⁄₁₆"	7½"	4" x 4½"	B	**5VR15**
8"	8⅜"	9¾"	9½"	4" x 4½"	B	**5VP61**
	9¹⁄₁₆"	10½"	10⅛"	4" x 4½"	B	**5VR16**
	9¹¹⁄₁₆"	9¹¹⁄₁₆"	8¾"	4¹³⁄₃₂" x 4³¹⁄₆₄"	B	**16V374**

Heavy-Duty Adjustable-Height and Low-Profile Floor Locks

GA GRAINGER APPROVED

These heavy-duty floor locks have cast steel or stainless steel bodies and provide more strength and abrasion resistance than general purpose floor locks. **Adjustable-height** locks allow users to change the height of the locks' friction pads. This allows the locks to be used with casters in a range of heights, and it lets users compensate for wear on the pads to maintain proper locking and unlocking action. **Low-profile** locks help ensure sufficient clearance when they are used on low-profile carts.



No. 16D136



No. 1VJN4



Plate B



Plate D



Plate M

For Wheel Dia.	Floor Lock Retracted Height	Floor Lock Extended Height	For Caster Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Material	Item No.
Heavy-Duty							
6"	6⅜"	8⅛"	7⅞"	4½" x 6"	D	Steel	**16D135**
	6½"	8¹⁄₁₆"	8"	6" x 4½"	D	Steel	**16D136**
Heavy-Duty Adjustable-Height							
4", 5", 6"	5"	6⅛" to 8"	6¼" to 8"	4½" x 6½"	M	Steel	**1VJN4**
	5"	6⅛" to 8"	6⅛" to 8"	4½" x 6½"	B	Stainless Steel	**2EMZ8**
6", 8"	6¼"	11½"	6¼" to 9½"	4½" x 6½"	M	Stainless Steel	**2EMZ9**
	6⅜"	11½"	8¼" to 11½"	4½" x 6½"	M	Steel	**1VJN5**
Heavy-Duty Low-Profile Adjustable-Height							
—	3⅛"	4⅜"	4⅜"	5½" x 5½"	D	Steel	**2GWZ8**

Spring Hanger Vibration Isolators

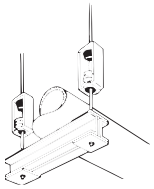
GA GRAINGER APPROVED · MASON INDUSTRIES

Steel springs reduce vibration transmission 2 to 6 times better than neoprene, as performance improves with larger deflections. LDS (Low Dynamic Stiffness) rubber cups under the springs and a projecting rubber bushing prevent sound transmission.

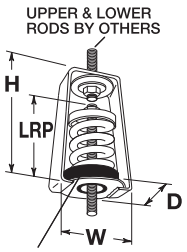
Cap. Range	Deflection Range	D	H	W	Lower Rod Penetration	Max. Rod Dia.	Spring Color	Brand	Item No.
55 to 76 lb.	0.75" to 1.02"	—	4¼"	2⅞"	3½"	⅜"	Black	GA	**48PW81**
80 to 113 lb.	0.75" to 1.00"	—	4¼"	2⅞"	3½"	⅜"	Yellow	GA	**48PW82**
130 to 175 lb.	0.75" to 1.00"	—	4¼"	2⅞"	3½"	⅜"	Silver	GA	**48PW83**
162 to 210 lb.	0.75" to 1.00"	—	4¼"	2⅞"	3½"	⅜"	Blue	GA	**48PW85**
230 to 310 lb.	0.75" to 1.00"	—	5¾"	3¼"	4"	⅝"	Yellow	GA	**48PW86**
300 to 400 lb.	0.75" to 1.00"	—	5¾"	3¼"	4"	⅝"	Green	GA	**48PW84**
380 to 510 lb.	0.75" to 1.00"	2¾"	5¾"	3¼"	4"	⅝"	Red	Mason	**5XR57**
460 to 625 lb.	0.75" to 1.00"	2¾"	5¾"	3¼"	4"	⅝"	White	Mason	**5C147**
500 to 750 lb.	0.75" to 1.12"	4"	7¼"	4¾"	4¼"	¾"	White	Mason	**5C148**
750 to 1000 lb.	0.75" to 1.00"	4"	7¼"	4¾"	4¼"	¾"	Blue	Mason	**5C150**
940 to 1250 lb.	0.75" to 1.00"	4"	7¼"	4¾"	4¼"	¾"	Gray	Mason	**5C151**



No. 5C150



Pipe Hangers



LDS RUBBER SPRING CUP with a projecting bushing to prevent steel to steel contact.

LDS (Low Dynamic Stiffness) Rubber Hanger Vibration Isolators

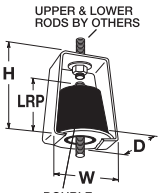
GA GRAINGER APPROVED · MASON INDUSTRIES

Reduce noise transmission and vibration from equipment running over 1000 rpm. General purpose double deflection for ceiling-suspended mechanical equipment and piping.

Cap. Range	Deflection Range	D	H	W	Lower Rod Penetration	Max. Rod Dia.	Color Mark	Brand	Item No.
10 to 35 lb.	0.05" to 0.20"	—	2 13/32"	2"	1¼"	⅜"	Green	GA	**48PW75**
30 to 75 lb.	0.10" to 0.20"	—	2 13/32"	2"	1¼"	⅜"	White	GA	**48PW76**
20 to 45 lb.	0.18" to 0.35"	—	2¾"	2¼"	1¾"	½"	Black	GA	**48PW78**
40 to 75 lb.	0.18" to 0.35"	—	2¾"	2¼"	1¾"	½"	Green	GA	**48PW77**
60 to 125 lb.	0.18" to 0.35"	—	2¾"	2¼"	1¾"	½"	Red	GA	**48PW79**
115 to 235 lb.	0.20" to 0.40"	—	4½"	4¼"	3"	¾"	Red	GA	**48PW80**
190 to 380 lb.	0.24" to 0.40"	3¼"	4½"	4¼"	3"	¾"	White	Mason	**5C011**
325 to 650 lb.	0.24" to 0.40"	3¼"	4½"	4¼"	3"	¾"	Yellow	Mason	**5XR52**
500 to 1000 lb.	0.24" to 0.40"	3¼"	4½"	4¼"	3"	¾"	Blue	Mason	**5XR53**



No. 5XR52



DOUBLE DEFLECTION LDS RUBBER ELEMENT with a projecting bushing to prevent steel to steel contact.

Floor-Mount Vibration Isolators

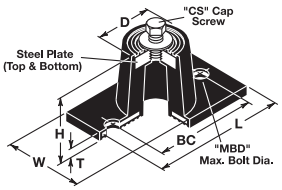
GA GRAINGER APPROVED · MASON INDUSTRIES

Thicker, taller vibration isolators provide more deflection than isolation pads. Neoprene bottom eliminates the need for bolting to floor. Mountings are oil-resistant. Include top bolts and washers.

Capacity Range	Deflection	Dimensions H	D	L	T	MBD	W	BC	Cap Screw Dia. and Length	Color Mark	Brand	Item No.
15 to 45 lb	0.20" to 0.40"	1½"	1 7/64"	3 3/16"	¼"	—	1 39/64"	2 13/32"	M8 x 30mm	Black	GA	**48PW87**
40 to 75 lb	0.25" to 0.50"	1½"	1 7/64"	3 3/16"	¼"	—	1 39/64"	2 13/32"	M8 x 30mm	Green	GA	**48PW90**
60 to 125 lb	0.20" to 0.40"	1½"	1 7/64"	3 3/16"	¼"	—	1 39/64"	2 13/32"	M8 x 30mm	Red	GA	**48PW88**
85 to 175 lb	0.25" to 0.50"	1 29/32"	1 21/32"	3 9/64"	13/32"	—	2 21/64"	3"	M10 x 30mm	Green	GA	**48PW91**
125 to 250 lb	0.25" to 0.50"	1 29/32"	1 21/32"	3 33/64"	13/32"	—	2 21/64"	3"	M10 x 30mm	Red	GA	**48PW89**
190 to 380 lb	0.25" to 0.50"	1 29/32"	1 21/32"	3 9/64"	13/32"	—	2 21/64"	3"	M10 x 30mm	White	GA	**48PW92**
550 to 1100 lb	0.25" to 0.50"	2¾"	2 35/64"	5½"	13/32"	—	3 19/64"	4⅛"	M12 x 30mm	Yellow	GA	**48PW94**
275 to 550 lb	0.25" to 0.50"	2¾"	2 9/16"	5½"	¼"	½"	3 5/16"	4⅛"	½ x 1 in	Red	Mason	**4C991**
375 to 750 lb	0.25" to 0.50"	2¾"	2 9/16"	5½"	¼"	½"	3 5/16"	4⅛"	½ x 1 in	White	Mason	**4C992**
300 to 600 lb	0.25" to 0.50"	1 29/32"	1 21/32"	3 9/64"	13/32"	—	2 21/64"	3"	M10 x 30mm	Yellow	GA	**48PW93**
1150 to 2300 lb	0.25" to 0.50"	2¾"	3⅜"	6¼"	5/16"	½"	4"	5"	½ x 1 in	Yellow	Mason	**4C995**
2150 to 4300 lb	0.25" to 0.50"	2¾"	3⅜"	6¾"	5/16"	½"	4⅜"	5½"	½ x 1 in	Yellow	Mason	**4C997**



No. 4C991



Floor-Mount Seismic and Wind Vibration Isolators

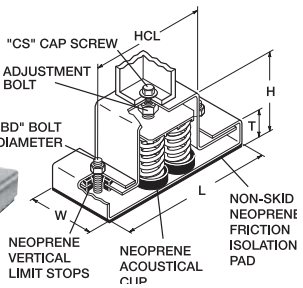
MASON INDUSTRIES

Combine spring floor-mount vibration isolators and neoprene vertical limit stops for greater safety. G ratings meet the horizontal requirements of most seismic zones.

Capacity Range	Deflection	Max. Horiz. G Rating	Dimensions H	L	T	W	BD	CS	HCL	Spring Color	Item No.
35 to 75 lb	0.75" to 1.50"	10.7"	11½"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Orange	**5XR76**
76 to 125 lb	0.75" to 1.33"	6.4"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Brown	**5XR70**
130 to 200 lb	0.75" to 1.15"	4.0"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Black	**5XR71**
230 to 310 lb	0.75" to 1.00"	2.6"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Yellow	**5XR72**
300 to 400 lb	0.75" to 1.00"	2.0"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Green	**5XR73**
380 to 510 lb	0.75" to 1.00"	1.6"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	Red	**5XR74**
460 to 625 lb	0.75" to 1.00"	1.3"	5⅛"	8¾"	1⅜"	2½"	⅜"	⅜ x 1"	6"	White	**5XR75**
600 to 800 lb	0.75" to 1.00"	1.3"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	Green	**5XR66**
765 to 1020 lb	0.75" to 1.00"	1.0"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	Red	**5XR64**
940 to 1250 lb	0.75" to 1.00"	0.8"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	White	**5XR65**



No. 5XR64



2-Pc. Center-Bonded Mounts

GA GRAINGER APPROVED

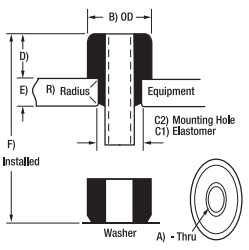
Isolate unwanted noise, vibration, and shock in all directions, including rebound direction. Easily installed through a supporting structure mounting hole. Neoprene elastomer effectively resists flame, gasoline, oil, natural aging, abrasion, and weather. Zinc-plated steel snubbing washer included.

Warning: Not suitable for exposures over 165°F.

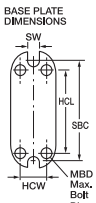
Max. Load Radial	Max. Load Axial	Dimensions A	B	C1	C2	D	E	F	R	Structural Support Thick	Durometer Hardness	Item No.
80 lb	130 lb	0.39"	1.31"	0.75"	0.79"	⅝"	0.38"	1.25"	0.04"	0.38"	60"	**2NPG8**
120 lb	200 lb	0.531"	1.88"	1.25"	1.3"	39/50"	0.5"	1.94"	0.06"	0.5"	60"	**2NPG9**
280 lb	380 lb	0.657"	2.55"	1.5"	1.58"	9/10"	0.75"	2.45"	0.09"	0.75"	60"	**2NPH1**

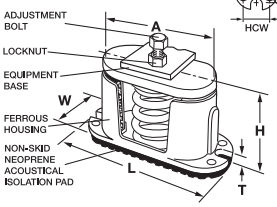


Shown Apart
No. 2NPG8









Floor-Mounted Spring Vibration Isolators

GRAINGER APPROVED — MASON INDUSTRIES

Performance improves as deflections increase. Sponge rubber guides improve stability. Bolt to beam; nonskid pads reduce need for bolting to floors. Select mounting based on weight distribution.

Capacity Range	Deflection	Dimensions A	H	L	T	W	HCL	HCW	MBD	SBC	SW	Bolt Size	Spring Color	Brand	Item No.
35 to 75 lb.	0.75" to 1.50"	4"	4½"	5¾"	½"	2⁵⁄₃₂"	4¾"	1"	¼"	5"	5⁄₁₆"	M10 x 100mm	Orange	GA	**48PW95**
76 to 125 lb.	0.75" to 1.33"	4"	4½"	5¾"	½"	2⁵⁄₃₂"	4¾"	1"	¼"	5"	5⁄₁₆"	M10 x 100mm	Brown	GA	**48PW96**
130 to 200 lb.	0.75" to 1.15"	4"	4½"	5¾"	½"	2⁵⁄₃₂"	4¾"	1"	¼"	5"	5⁄₁₆"	M10 x 100mm	Black	GA	**48PW97**
230 to 310 lb.	0.75" to 1.00"	4"	4½"	5¾"	½"	2⁵⁄₃₂"	4¾"	1"	¼"	5"	5⁄₁₆"	M10 x 100mm	Yellow	GA	**48PW98**
300 to 400 lb.	0.75" to 1.00"	4"	4½"	5¾"	½"	2⁵⁄₃₂"	4¾"	1"	¼"	5"	5⁄₁₆"	M10 x 100mm	Green	GA	**48PW99**
380 to 510 lb.	0.75" to 1.00"	4"	4½"	5¾"	½"	2⅛"	4¾"	1"	¼"	5"	5⁄₁₆"	⅜ x 4"	Red	Mason	**5C131**
460 to 625 lb.	0.75" to 1.00"	4"	4½"	5¾"	½"	2⅛"	4¾"	1"	¼"	5"	5⁄₁₆"	⅜ x 4"	White	Mason	**5C132**
500 to 750 lb.	0.75" to 1.12"	5¾"	5⅝"	8¼"	½"	2¾"	6½"	1½"	⅜"	7¼"	7⁄₁₆"	½ x 4"	White	Mason	**5C133**
750 to 1000 lb.	0.75" to 1.00"	5¾"	5⅝"	8¼"	½"	2¾"	6½"	1½"	⅜"	7¼"	7⁄₁₆"	½ x 4"	Blue	Mason	**5XR50**
940 to 1250 lb.	0.75" to 1.00"	5¾"	5⅝"	8¼"	½"	2¾"	6½"	1½"	⅜"	7¼"	7⁄₁₆"	½ x 4"	Gray	Mason	**5C136**
1240 to 1650 lb.	0.75" to 1.00"	5¾"	5⅝"	8¼"	½"	2¾"	6½"	1½"	⅜"	7¼"	7⁄₁₆"	½ x 4"	Black	Mason	**5C137**
1575 to 2100 lb.	0.75" to 1.00"	6⅜"	5⅝"	8⅞"	9⁄₁₆"	3½"	7¼"	1¾"	⅜"	7⅞"	7⁄₁₆"	⅝ x 4½"	Yellow	Mason	**5XR51**
1990 to 2650 lb.	0.75" to 1.00"	6⅜"	5⅝"	8⅞"	9⁄₁₆"	3½"	7¼"	1¾"	⅜"	7⅞"	7⁄₁₆"	⅝ x 4½"	Red	Mason	**5C140**







AirLoc Adjustable Jack Mounts/Vibration Isolators

Neoprene provides better equipment stability. Nitrile provides greater vibration damping.

Low-Profile—Provide low-profile leveling and isolation with attachment stud and hardware.

Higher-Floor Inclination—Automatically compensate for floor unevenness up to 4°. Include 2 nuts and 2 washers.

Internally Leveled—Provide up to 1" height adjustment. Include 1 nut and 1 washer.

Thread Size	Bolt Length	Dia.	W	NEOPRENE H	NEOPRENE L	NEOPRENE Load Capacity	NEOPRENE Item No.	NEOPRENE Pkg. Qty.	NITRILE H	NITRILE L	NITRILE Load Capacity	NITRILE Item No.	NITRILE Pkg. Qty.
Low Profile Adjustable Leveler with Stud													
M12	5"	—	2"	13⁄16"	2"	50–120 lb.	**15D901**	4	⅞"	2"	140–360 lb.	**15D906**	4
M12	5"	—	3⅜"	⅞"	3⅜"	120–340 lb.	**15D902**	4	1"	3⅜"	360–1,360 lb.	**15D907**	4
M16	5"	—	4⅜"	1"	4⅜"	340–840 lb.	**15D903**	4	1⅛"	4⅜"	1,360–3,000 lb.	**15D908**	4
M20	7"	—	5⅛"	1⅛"	5⅛"	840–1,200 lb.	**15D904**	4	1⅜"	5⅛"	3,000–4,900 lb.	**15D909**	4
M24	7"	—	6⅛"	1¼"	9⅜"	1,200–2,280 lb.	**15D905**	4	1⅜"	9⅛"	4,900–7,800 lb.	**15D910**	4
Leveling Mount, Higher Floor Inclination													
M12	4"	3⅜"	—	5½"	—	750–2400 lb.	**3ECP6**	1	—	—	—	—	
M16	4"	4⅝"	—	6"	—	2400–5400 lb.	**3ECP7**	1	6"	—	1600–3600 lb.	**3ECP3**	1
M20	4"	6⅛"	—	6"	—	5400–8000 lb.	**3ECP8**	1	6"	—	3600–7200 lb.	**3ECP4**	1
M24	4"	9⅛"	—	6"	—	8000–10,800 lb.	**3ECP9**	1	6"	—	7200–10,800 lb.	**3ECP5**	1
Leveling Mount													
M12	4"	3⅜"	—	—	—	—	—		1½"	—	500–1,600 lb.	**3ECP2**	1
Leveling Mount, Internally Leveled													
M12	5"	4"	—	7"	—	750–2700 lb.	**3ECR7**	1	7"	—	500–1800 lb.	**3ECR1**	1
M16 x 1.5	7"	4⅜"	—	9"	—	2700–3200 lb.	**3ECR8**	1	—	—	—	—	
M20	7"	6⅝"	—	9⅛"	—	3200–6300 lb.	**3ECR9**	1	9⅛"	—	2700–5400 lb.	**3ECR3**	1
M24	7"	8⅛"	—	9⅛"	—	6300–7200 lb.	**3ECT1**	1	9⅛"	—	5400–7200 lb.	**3ECR4**	1
M24	7"	10¼"	—	9"	—	7200–14,400 lb.	**3ECT2**	1	9⅜"	—	7200–14,400 lb.	**3ECR5**	1
M30	7"	12"	—	9⅞"	—	14,400–18,000 lb.	**3ECT3**	1	9⅞"	2⅞"	14,400–18,000 lb.	**3ECR6**	1
M16	7"	4⅜"	—	—	—	—	—		9"	—	1800–2700 lb.	**3ECR2**	1





Adjustable Wedge Mounts/Vibration Isolators AirLoc

Adjust within 1/1000" accuracy by wrench or socket head. Choose neoprene for better equipment stability, nitrile for greater vibration damping.

Bolt-On—Permanent attachment lets equipment move freely on flooring. Include bolt, nut, and washer.

Freestanding—Provide lateral and longitudinal stability when placed under equipment.

Thread Size	Bolt Length	L	W	NEOPRENE Max. Steady H	NEOPRENE Max. Steady Load	NEOPRENE Item No.	NITRILE Max. Steady H	NITRILE Max. Steady Load	NITRILE Item No.
Bolt On									
M16	6"	4½"	4½"	2⅜"	7200 lb.	**3ECV9**	2⅜"	4500 lb.	**3ECV2**
M16	6"	5½"	5½"	2⅜"	10,800 lb.	**3ECW1**	2⅜"	6800 lb.	**3ECV3**
M20	6"	6¹¹⁄₁₆"	6¹¹⁄₁₆"	2¹¹⁄₁₆"	14,400 lb.	**3ECW2**	2¹¹⁄₁₆"	9900 lb.	**3ECV4**
M20	6"	7⅛"	9⅛"	3⅛"	18,000 lb.	**3ECW3**	3⅛"	14,400 lb.	**3ECV5**
M24	8"	9¹³⁄₁₆"	7⅛"	3⅛"	39,600 lb.	**3ECW4**	3⅛"	18,000 lb.	**3ECV6**
M24	8"	11¹³⁄₁₆"	15¾"	3²⁹⁄₃₂"	90,000 lb.	**3ECW6**	3²⁹⁄₃₂"	43,200 lb.	**3ECV8**

L	W	Neoprene Leveling Pads Top and Bottom H	Neoprene Leveling Pads Top and Bottom Max. Steady Load	Neoprene Leveling Pads Top and Bottom Item No.	Nitrile Damping Pads Top and Bottom H	Nitrile Damping Pads Top and Bottom Max. Steady Load	Nitrile Damping Pads Top and Bottom Item No.
Freestanding							
4⅛"	2³⁄₁₆"	1²¹⁄₃₂"	4500 lb.	**3ECU3**	2¹¹⁄₃₂"	2000 lb.	**3ECT4**
5⅞"	2¹⁵⁄₁₆"	1²¹⁄₃₂"	9000 lb.	**3ECU4**	2¹¹⁄₃₂"	4000 lb.	**3ECT5**
4½"	9¹³⁄₁₆"	2²⁹⁄₃₂"	14,400 lb.	**48RH30**	3⁹⁄₁₆"	9900 lb.	**48RH29**
7⅛"	3¾"	1³¹⁄₃₂"	13,500 lb.	**3ECU5**	2¹⁹⁄₃₂"	6600 lb.	**3ECT6**
7⅛"	7⅛"	1³¹⁄₃₂"	25,000 lb.	**3ECU6**	2¹⁹⁄₃₂"	14,000 lb.	**3ECT7**
9¹³⁄₁₆"	7⅛"	2²³⁄₃₂"	39,600 lb.	**3ECU8**	3¹¹⁄₃₂"	18,000 lb.	**3ECT9**
11¹³⁄₁₆"	15¾"	3¹⁵⁄₃₂"	90,000 lb.	**3ECV1**	4⅛"	43,000 lb.	**3ECU2**







Leveling Mounts/Vibration Isolators

MASON INDUSTRIES

Leveling Mounts—Machine rests on full surface of mount.

Stud Mounts—Machine rests on lower-leveling nut and washer.

Wedge Jack Mounts—Provide rigid support. Mating parts with spherical seats allow automatic adjustment up to 7° on uneven floors. Through-hole for bolting. 3½"W.

Load Capacity	Base Dia.	Bolt H	Bolt Length	L	Item No.
Leveling Mount - Leveling Range up to ⅝"					
500 lb.	3½"	4"	3½"	—	**4C978**
1000 lb.	5"	6¾"	5"	—	**5C028**
4000 lb.	6¼"	6¾"	5"	—	**5C029**
12,000 lb.	8"	10"	8"	—	**5C030**
Stud Mount - Leveling Range up to 2"					
250 lb.	2⅜"	3⅛"	3"	—	**2LVN5**
500 lb.	3"	4⅞"	4"	—	**2LVN6**
1000 lb.	3⅜"	5"	4"	—	**2LVN7**
3000 lb.	5"	1¼"	5"	6¼"	**2LVN8**
6000 lb.	6¾"	1⅜"	6"	7⅜"	**2LVN9**
Wedge Jack Mount - Leveling Range up to ⅜"					
15,000 lb.	—	3"	—	6"	**2LVN2**
20,000 lb.	—	3¼"	—	6⅝"	**2LVN3**



MASON INDUSTRIES

Neoprene Seismic Restrained Mounts

High-capacity, low-deflection (up to 0.15") floor mounts designed for earthquake zones feature all-direction, fail-safe steel housings. Provide high-frequency noise isolation of equipment. Excellent for truck and mobile applications.

Capacity Range	Color Mark	D	H	W	Item No.
0 to 525 lb.	Green	3"	2½"	4¾"	**20UZ14**
0 to 1000 lb.	White	3"	2½"	4¾"	**20UZ15**
0 to 2100 lb.	Red	3¾"	2¾"	6¼"	**20UZ16**
0 to 3500 lb.	White	3¾"	2¾"	6¼"	**20UZ17**

Cylindrical Vibration Isolators

Isolators are compression-mounted to control noise, vibration, and shock. 50 durometer, natural rubber pads are chemically bonded to steel with superior abrasion resistance and high tensile strength. Grade 5 screws are clear, zinc-plated.

GA GRAINGER APPROVED

Note: Not for wall- or ceiling-suspended installations. Not suitable for excess exposure to oil, grease, and solvents, or temps. over 150°F.

Max. Load Downward Compression (lb.)	Max. Load Sideways Shear (lb.)	Cylinder Dia.	H	Thread Length	Thread Size	Item No.
Female Threads Both Ends						
25	5	5/8"	1/2"	—	8-32	2NPD2
55	8	1"	1"	—	3/16-18	2NPD3
165	55	2"	1 3/8"	—	3/8-16	2NPD5
170	40	1 1/2"	1"	—	M8 x 1.25	2NPD7
170	40	1 1/2"	1"	—	5/16-18	2NPD6
180	45	2"	1 3/8"	—	3/8-16	2NPD4
210	30	1	1/2"	—	1/4-20	2NPD8
720	140	3 1/8	2 1/4"	—	1/2-13	2NPD9
Female Threads Top End, Male Threads, Bottom End						
7	1	3/8"	1/2"	1/2"	8-32	2NPE1
20	3	5/8"	1/2"	1/2"	8-32	2NPE2
31	4 1/2	5/8"	5/8"	1/2"	1/4-20	2NPE3
50	15	1"	3/4"	1/2"	1/4-20	2NPE4
50	15	1"	3/4"	1/2"	M6 x 1	2NPE5
55	8	1"	1"	5/8"	5/16-18	2NPE6
55	8	1"	1"	5/8"	M8 x 1.25	2NPE7
75	25	1"	1/2"	1/2"	1/4-20	2NPE8
80	15	1 3/8"	1"	5/8"	5/16-18	2NPE9
125	20	1 1/2"	1"	5/8"	5/16-18	2NPF1
125	20	1 1/2"	1"	5/8"	M8 x 1.25	2NPF2
165	55	2"	1 5/8"	5/8"	3/8-16	2NPF5
165	55	2"	1 5/8"	5/8"	M10 x 1.50	2NPF6
180	45	2"	1 3/8"	5/8"	3/8-16	2NPF3
180	45	2"	1 3/8"	5/8"	M10 x 1.50	2NPF4
720	140	3 1/8	2 1/4"	1 1/4"	1/2-13	2NPF7
720	140	3 1/8	2 1/4"	1 1/4"	M12 x 1.75	2NPF8
Male Threads, Bottom End						
20	—	1 5/16	5/8"	1/2"	1/4-20	2NPF9
7	1	3/8"	1/2"	1/2"	8-32	2NNZ5
20	3	5/8"	1/2"	1/2"	8-32	2NNZ6
40	6	3/4"	3/4"	5/8"	1/4-20	2NNZ7
40	6	3/4"	3/4"	5/8"	M6 x 1	2NNZ8
45	8	1"	1"	5/8"	5/16-18	2NNZ9
50	9	1"	3/4"	1/2"	1/4-20	2NPA1
50	9	1"	3/4"	1/2"	M6 x 1	2NPA2
50	9	1"	3/4"	5/8"	5/16-18	2NPA3
50	9	1"	3/4"	5/8"	M8 x 1.25	2NPA4
75	12	1 1/4"	3/4"	1/2"	1/4-20	2NPA5
75	12	1 1/4"	3/4"	5/8"	5/16-18	2NPA6
75	12	1 1/4"	3/4"	5/8"	M8 x 1.25	2NPA7
80	15	1 3/8"	1"	5/8"	5/16-18	2NPA8
125	20	1 9/16	1"	5/8"	5/16-18	2NPA9
125	20	1 9/16	1"	5/8"	M8 x 1.25	2NPC1
125	20	1 9/16	1"	5/8"	3/8-16	2NPC2
125	20	1 9/16	1"	5/8"	M10 x 1.50	2NPC3
165	55	2"	1 5/8"	5/8"	3/8-16	2NPC5
180	45	2"	1 3/8"	5/8"	3/8-16	2NPC4
370	90	2"	3/4"	1 1/8"	3/8-16	2NPC6
370	90	2"	3/4"	1 1/8"	M10 x 1.50	2NPC7
460	155	2"-1/2"	7/8	1 1/8"	3/8-16	2NPC8
720	140	3 1/8	2 1/4"	1 1/4"	1/2-13	2NPC9
720	140	3 1/8	2 1/4"	1 1/4"	M12 x 1.75	2NPD1
Male Threads Top End						
60	—	1"	5/8"	5/8"	5/16-18	2NPG3
80	—	1 5/8"	1"	5/8"	5/16-18	2NPG1
80	—	1 5/8"	1"	5/8"	M8 X 1.25	2NPG2
125	—	1 1/2"	1"	5/8"	5/16-18	2NPG4
125	—	1 1/2"	1"	5/8"	M8 x 1.25	2NPG5
310	—	2"	3/4"	1 1/8"	3/8-16	2NPG6
310	—	2"	3/4"	1 1/8"	M10 x 1.50	2NPG7



Female Threads Both Ends



Female Threads Top End, Male Threads Bottom End



Male Threads, Bottom End



Male Threads Both Ends



Male Threads Top End

Vibration Isolation Pads

MASON INDUSTRIES

Pads protect equipment from shaking and are designed for use when machines are bolted to the floor.

NEOPRENE

Pad modules are easy to cut to size. Self-gasketing waffle pattern helps contain spills and improves suction and grip.

Mini Super W Pads— Provide 1/16" max. deflection.

Super W Pads—Provide 1/8" max. deflection.

NEOPRENE AND STEEL

For concentrated loads such as heavy machines with small legs or formed sheet metal legs without a bottom surface.

Type A—Have a cemented steel plate between a bottom super waffle pad and top 1/4" friction pad.

Type B—Have a 3/4"-dia. center hole for bolting, no top friction pad. Includes 3/4" neoprene isolation washer cemented to a steel washer.

NEOPRENE AND CORK

2 honeycombed neoprene sheets are adhered to a dense, granulated cork core.

NITRILE PADS

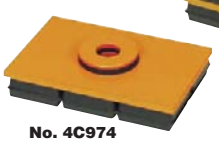
Oil-resistant pads are great for applications with constant exposure to oil, grease, or gasoline.



No. 5XR47 Super W



No. 4C975 Type A



No. 4C974 Type B



No. 5C027 Neoprene & Cork



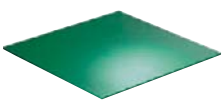
No. 20UZ23 Nitrile Pad

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene - Mini Super W 2" x 2" Modules 45 Duro.					
4"	4"	3/8"	720 lb.	4C973	2
6"	6"	3/8"	1620 lb.	5C022	1
18"	18"	3/8"	180 per 2x2	4C972	1
Neoprene - Super W 2" x 2" Modules 45 Duro.					
2"	2"	3/4"	180 lb.	2LVR4	2
3"	3"	3/4"	45 psi	2LVR5	2
4"	4"	3/4"	720 lb.	2LVR6	2
6"	6"	3/4"	1620 lb.	2LVR7	1
18"	18"	3/4"	180 per 2x2	5XR47	1
Neoprene - Super W 3" x 3" Modules 60 Duro.					
3"	3"	3/4"	600 lb.	20UZ18	2
6"	6"	3/4"	2400 lb.	20UZ19	2
18"	18"	3/4"	600 per 3x3	20UZ20	1
Neoprene and Steel - Type A					
4"	4"	1 1/4"	800 lb.	2LVP1	1
6"	4"	1 1/4"	1200 lb.	4C975	1
6"	6"	1 1/4"	1800 lb.	2LVP3	1
8"	8"	1 1/4"	3200 lb.	2LVP4	1
10"	10"	1 1/4"	5000 lb.	2LVP5	1
10"	12"	1 1/4"	6000 lb.	2LVP6	1

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene and Steel - Type B					
4"	4"	1"	800 lb.	2LVP7	1
6"	4"	1"	1200 lb.	4C974	1
6"	6"	1"	1800 lb.	2LVP9	1
8"	8"	1"	3200 lb.	2LVR1	1
10"	10"	1"	5000 lb.	2LVR2	1
Neoprene and Cork					
2"	2"	1"	200 lb.	5C027	2
3"	3"	1"	450 lb.	4C976	2
4"	4"	1"	800 lb.	4C977	2
6"	6"	1"	1800 lb.	5XR49	1
12"	12"	1"	7200 lb.	5C026	1
18"	18"	1"	16,200 lb.	5C025	1
Nitrile Pads (Highest Oil Resistance)					
6"	6"	5/16"	7200 lb.	20UZ21	2
18"	18"	5/16"	200 psi	20UZ22	1
18"	18"	1/2"	280 psi	20UZ23	1



No. 3ECK4



No. 3ECN7

AirLoc®

Vibration Isolation Pads

Profile neoprene provides best isolation; flat neoprene provides better equipment stability. Nitrile provides greater vibration damping.

Precut Pad Packs—Provide 4 points of support. Include 4 primary pads and 4 shim pads. Use metal shim between pad surfaces to compensate different heights of equipment.

Elastomer Sheets—Reduce noise and vibration of equipment. Use whole or cut sheets to custom sizes.

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene Elastomer Sheets					
19 11/16"	19 11/16"	1/2"	58 psi	3ECL7	1
	19 11/16"	1"	87 psi	3ECN2	1
	39 3/8"	1"	87 psi	3ECN1	1
	19 11/16"	3/8"	116 psi	3ECL9	1
	39 3/8"	3/8"	116 psi	3ECL8	1
	19 11/16"	5/8"	464 psi	3ECN8	1
	39 3/8"	5/8"	464 psi	3ECN7	1
	39 3/8"	1"	464 psi	3ECN9	1
	19 11/16"	1"	464 psi	3ECP1	1
Neoprene Precut Pad Packs - Pkg. of 4					
2"	2"	3/4"	8500 lb.	3ECL3	4
4"	4"	3/4"	20,000 lb.	3ECL4	4
6"	6"	3/4"	35,000 lb.	3ECL5	4
8"	8"	3/4"	90,000 lb.	3ECL6	4
Neoprene Precut Pad Packs - Pkg. of 8					
2"	2"	1/16"	1000 lb.	3ECK4	8
4"	4"	1/16"	2500 lb.	3ECK5	8
6"	6"	1/16"	4000 lb.	3ECK6	8
8"	8"	1/16"	10,000 lb.	3ECK7	8
Nitrile Elastomer Sheets					
19 11/16"	19 11/16"	5/8"	232 psi	3ECN4	1
	39 3/8"	5/8"	232 psi	3ECN3	1
	19 11/16"	1"	232 psi	3ECN6	1
	39 3/8"	1"	232 psi	3ECN5	1
Nitrile Precut Pad Packs - Pkg. of 4					
2"	2"	3/4"	3500 lb.	3ECK8	4
4"	4"	3/4"	8000 lb.	3ECK9	4
6"	6"	3/4"	14,000 lb.	3ECL1	4
8"	8"	3/4"	28,000 lb.	3ECL2	4



Leveling Jacks

Designed for permanent installation, these screw-style jacks hold platforms and portable equipment in place and keep them stabilized. Typically, for use with work platform applications. Include folding crank handle.

Cap. (lb.)	Overall H (in.)	Min. Height Below Equip Frame (in.)	Max. Extended Height Below Equip Frame (in.)	Screw Travel	Item No.
5000	30	4½	25½	21"	**2KMA6**
5000	18	4½	13½	9"	**2KMA7**
5000	26	4½	21½	17"	**2KMA8**
5000	30	4½	25½	21"	**2KMA9**





Threaded Tube Ends

Material is glass-fiber reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, grease, and other chemical agents. Standard execution. Brass boss, threaded pass-through hole. Color: black, matte finish.

Tube Wall Size	Brand	Outside Dia.	ROUND Load Capacity	Item No.	Outside Dia.	SQUARE Load Capacity	Item No.
1" Thread Size							
0.079"	Elesa	1.75"	1232 lb.	**29AU90**	—	—	—
⅜-16 Thread Size							
0.065"	S & W	1½"	1500 lb.	**1XEY1**	1½" sq.	1500 lb.	**1XEX1**
	Elesa	—	—	—	1.5"	1344 lb.	**29AU81**
½-13 Thread Size							
0.065"	S & W	1½"	1500 lb.	**1XEY2**	1½" sq.	1500 lb.	**1XEX2**
	S & W	2"	2000 lb.	**1XEY4**	2" sq.	2000 lb.	**1XEX6**
	Elesa	1.5"	1120 lb.	**29AU85**	—	—	—
0.120"	S & W	—	—	—	1½" sq.	1500 lb.	**1XEX4**
	S & W	—	—	—	2" sq.	2000 lb.	**1XEX7**
	Elesa	—	—	—	1.5"	1344 lb.	**29AU82**
27/49 Thread Size							
0.079"	Elesa	1.181"	1008 lb.	**29AU77**	1.378"	1344 lb.	**29AU75**
	Elesa	1.654"	1120 lb.	**29AU79**	—	—	—
⅝-11 Thread Size							
0.065"	S & W	1½"	1500 lb.	**1XEY3**	1½" sq.	1500 lb.	**1XEX3**
	Elesa	1.5"	1120 lb.	**29AU86**	1.5"	1344 lb.	**29AU83**
0.079"	Elesa	1.75"	1232 lb.	**29AU88**	—	—	—
0.120"	S & W	—	—	—	1½" sq.	1500 lb.	**1XEX5**
	S & W	—	—	—	2" sq.	2000 lb.	**1XEX8**
¾-10 Thread Size							
0.065"	Elesa	1.5"	1120 lb.	**29AU87**	1.5"	1792 lb.	**29AU80**
0.079"	Elesa	1.75"	1232 lb.	**29AU89**	—	—	—
0.120"	S & W	—	—	—	2" sq.	2000 lb.	**1XEX9**
	Elesa	—	—	—	1.5"	1792 lb.	**29AU84**
42/89 Thread Size							
0.079"	Elesa	1.181"	1008 lb.	**29AU76**	1.378"	1344 lb.	**29AU74**
	Elesa	1.654"	1120 lb.	**29AU78**	—	—	—
M12 Thread Size							
0.079"	Elesa	—	—	—	1.181"	1008 lb.	**29AU72**
M14 Thread Size							
0.079"	Elesa	—	—	—	1.181"	1008 lb.	**29AU73**





Boltless Leveling Mounts

Level-It™—Choose from steel, nonskid steel, stainless steel, and Delrin® base. See Grainger.com® for additional leveling mounts.

PolyMount™—Polyglass-filled nylon base is corrosion-resistant. Lag holes allow permanent floor mounting. For washdown applications. See Grainger.com® for additional leveling mounts.

Base Dia.	H	Hex	Load Capacity	Base	Finish	Item No.
Level-It						
¼-20						
1"	13⁄16"	½"	200 lb.	Delrin®	Stainless Steel	**4TPW8**
		½"	750 lb.	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH2**
⅜-16						
1-1/14"	⅞"	⅝"	3750 lb.	Steel	Black Oxide	**20KK61**
		⅝"	3750 lb.		Yellow Zinc	**2G377**
		⅝"	3750 lb.		Nickel	**2G378**
1¼"	1"	⅝"	300 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	**4TPW3**
		⅝"	1800 lb.	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH3**
		⅝"	1800 lb.		Nickel	**4TVE9**
½-13						
1⅞"	1⅛"	¾"	700 lb.	Delrin®	Yellow Zinc	**4NYU4**
		¾"	5000 lb.	Steel	Yellow Zinc	**2G379**
		¾"	5000 lb.		Nickel	**2G380**
		¾"	5000 lb.		Black Oxide	**20KK62**
	1¼"	¾"	700 lb.	Delrin® w/ Non-Skid Pad	Stainless Steel	**4TPX7**
		¾"	3750 lb.	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH4**
		¾"	3750 lb.		Nickel	**4TVF1**
⅝-11						
2½"	1¼"	⅞"	6000 lb.	Steel	Yellow Zinc	**2G381**
		⅞"	6000 lb.		Nickel	**2G382**
		⅞"	6000 lb.		Black Oxide	**20KK63**
	1⅜"	⅞"	1200 lb.	Delrin® w/ Non-Skid Pad	Stainless Steel	**4TPX8**
		⅞"	4500 lb.	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH5**
¾-10						
3"	1½"	1 1⁄16"	7400 lb.	Steel	Yellow Zinc	**2G383**
		1 1⁄16"	7400 lb.		Nickel	**2G384**
		1 1⁄16"	7400 lb.		Black Oxide	**20KK64**
	1⅝"	1 1⁄16"	5550 lb.	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH6**
		1 1⁄16"	5550 lb.		Nickel	**4TVF3**
		1 1⁄16"	5550 lb.	Stainless Steel w/ Non-Skid Pad	Stainless Steel	**4NYJ3**
1-8						
4"	1⅞"	1⅜"	20,000 lb.	Steel	Yellow Zinc	**2G385**
M8						
1"	13⁄16"	½"	1000 lb.	Stainless Steel	Stainless Steel	**14H426**
M16						
2½"	1⅜"	⅞"	6000 lb.	Stainless Steel	Stainless Steel	**14H429**
M20						
3"	1⅝"	1 1⁄16"	7400 lb.	Steel	Yellow Zinc	**14H424**
		1 1⁄16"	7400 lb.	Stainless Steel	Stainless Steel	**14H430**
M24						
4"	2"	1⅜"	20,000 lb.	Steel	Yellow Zinc	**14H425**
PolyMount						
⅜-16						
2"	1 7⁄16"	⅝"	4000 lb.	Nylon	Clear Zinc	**4TRX4**
		¾"	4000 lb.		Stainless Steel	**4TRY9**
	1½"	¾"	3000 lb.	Nylon w/ Non-Skid Pad	Clear Zinc	**4TTA5**
4"	1 11⁄16"	¾"	3750 lb.		Stainless Steel	**4TTD5**
⅝-11						
3"	1 11⁄16"	⅞"	5000 lb.	Nylon	Clear Zinc	**4TRX7**
4"	1⅞"	⅞"	6000 lb.		Clear Zinc	**4TRY1**
	1 15⁄16"	⅞"	4500 lb.	Nylon w/ Non-Skid Pad	Clear Zinc	**4TTC2**
¾-10						
4"	2"	1 1⁄16"	7500 lb.	Nylon	Stainless Steel	**4TRZ7**
5"	3"	1 1⁄16"	10,000 lb.		Clear Zinc	**4TRY5**
1-8						
5"	3 5⁄16"	1⅜"	7500 lb.	Nylon w/ Non-Skid Pad	Stainless Steel	**4TTE3**


No. 2G416


No. 4TVG7


No. 1XEV2


No. 4NYE5


No. 5VM95

Standard Leveling Mounts with Bolts

Stabilize equipment with a 10° to 15° swivel in every direction. Leveling mounts with studs include jam nuts.

Base Dia.	H	Bolt Length	Hex	Load Capacity	Base	Finish	Item No.
Level-It							
¼-20 Thread Size							
1"	1 15/16"	1¼"	½"	200 lb.	Delrin®	Yellow Zinc	2G416
		1¼"	½"	200 lb.		Stainless Steel	1XEV8
		1¼"	½"	1000 lb.	Steel	Yellow Zinc	2G361
		1¼"	½"	1000 lb.		Nickel	2G362
		1¼"	½"	1000 lb.	Stainless Steel	Stainless Steel	14H397
	2 1/16"	1¼"	½"	200 lb.	Delrin® w/ Non-Skid Pad	Stainless Steel	4TVG7
		1¼"	½"	750 lb.	Steel, Non-Skid	Yellow Zinc	2G402
		1¼"	½"	750 lb.	Stainless Steel, Non-Skid	Stainless Steel	1XEV2
		1¼"	½"	1000 lb.	Steel, Non-Skid	Nickel	14H391
	3 3/16"	2½"	½"	1000 lb.	Steel	Yellow Zinc	4NYE5
		2½"	½"	1000 lb.	Stainless Steel	Stainless Steel	4NYF4
		2½"	½"	1000 lb.	316 Stainless Steel	Stainless Steel	14H398
	3 5/16"	2½"	½"	750 lb.	Steel, Non-Skid	Yellow Zinc	4TVC2
⅜-16 Thread Size							
1¼"	2⅞"	2"	⅝"	300 lb.	Delrin®	Yellow Zinc	2G417
		2"	⅝"	300 lb.		Stainless Steel	1XEV9
		2"	⅝"	3750 lb.	Steel	Yellow Zinc	2G363
		2"	⅝"	3750 lb.	303 Stainless Steel	Stainless Steel	2G389
		2"	⅝"	3750 lb.	Steel	Nickel	2G364
		2"	⅝"	3750 lb.	316 Stainless Steel	Stainless Steel	14H399
	3"	2"	⅝"	300 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4TVG2
		2"	⅝"	300 lb.		Stainless Steel	4TVG8
		2"	⅝"	2800 lb.	Stainless Steel, Non-Skid	Stainless Steel	1XEV3
		2"	⅝"	2800 lb.	Steel, Non-Skid	Yellow Zinc	2G403
		2"	⅝"	2800 lb.		Nickel	14H392
	4⅞"	4"	⅝"	300 lb.	Delrin®	Yellow Zinc	4NYN7
		4"	⅝"	3750 lb.	Steel	Yellow Zinc	4NYE6
		4"	⅝"	3750 lb.		Nickel	4NYG4
		4"	⅝"	3750 lb.	316 Stainless Steel	Stainless Steel	14H401
	5"	4"	⅝"	300 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4NYP6
		4"	⅝"	300 lb.		Stainless Steel	4NYT4
		4"	⅝"	2800 lb.	Stainless Steel, Non-Skid	Stainless Steel	4TVE1
		4"	⅝"	2800 lb.	Steel, Non-Skid	Yellow Zinc	4TVC3
		4"	⅝"	2800 lb.		Nickel	4TVD2
2"	4⅛"	3"	¾"	4000 lb.	Nylon	Clear Zinc	4TTE6
	5⅛"	4"	¾"	4000 lb.		Clear Zinc	5VM98
½-13 Thread Size							
1⅞"	3⅛"	2"	¾"	700 lb.	Delrin®	Yellow Zinc	2G418
		2"	¾"	700 lb.		Stainless Steel	1XEW1
		2"	¾"	5000 lb.	Steel	Yellow Zinc	2G365
		2"	¾"	5000 lb.	303 Stainless Steel	Stainless Steel	2G390
		2"	¾"	5000 lb.	Steel	Nickel	2G366
		2"	¾"	5000 lb.	316 Stainless Steel	Stainless Steel	14H402
	3¼"	2"	¾"	700 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4TVG3
		2"	¾"	700 lb.		Stainless Steel	4TVG9
		2"	¾"	3750 lb.	Stainless Steel, Non-Skid	Stainless Steel	1XEV4
		2"	¾"	3750 lb.	Steel, Non-Skid	Yellow Zinc	2G404
		2"	¾"	5000 lb.		Nickel	14H393
	5⅛"	4"	¾"	700 lb.	Delrin®	Yellow Zinc	4NYN8
		4"	¾"	700 lb.		Stainless Steel	4NYR6
		4"	¾"	5000 lb.	Steel	Yellow Zinc	4NYE7
		4"	¾"	5000 lb.	Stainless Steel	Stainless Steel	4NYF6
		4"	¾"	5000 lb.	Steel	Nickel	4NYG5
		4"	¾"	5000 lb.	316 Stainless Steel	Stainless Steel	14H403
	5¼"	4"	¾"	700 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4NYP7
		4"	¾"	3750 lb.	Stainless Steel, Non-Skid	Stainless Steel	4TVE2
		4"	¾"	3750 lb.	Steel, Non-Skid	Yellow Zinc	4TVC4
		4"	¾"	3750 lb.		Nickel	4TVD3
3"	5⅛"	4"	¾"	5000 lb.	Nylon	Clear Zinc	5VN01
⅝-11 Thread Size							
2½"	3¼"	2"	⅞"	6000 lb.	Steel	Yellow Zinc	2G367
		2"	⅞"	6000 lb.	303 Stainless Steel	Stainless Steel	2G391
		2"	⅞"	6000 lb.	Steel	Nickel	2G368
		2"	⅞"	6000 lb.	316 Stainless Steel	Stainless Steel	14H404
	3⅜"	2"	⅞"	1200 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4TVG4
		2"	⅞"	4500 lb.	Stainless Steel, Non-Skid	Stainless Steel	1XEV5
		2"	⅞"	4500 lb.	Steel, Non-Skid	Yellow Zinc	2G405
		2"	⅞"	6000 lb.		Nickel	14H394
	5¼"	4"	⅞"	1200 lb.	Delrin®	Yellow Zinc	4NYN9
		4"	⅞"	1200 lb.		Stainless Steel	4NYR7
		4"	⅞"	6000 lb.	Steel	Yellow Zinc	4NYE8
		4"	⅞"	6000 lb.	Stainless Steel	Stainless Steel	4NYF7
		4"	⅞"	6000 lb.	Steel	Nickel	4NYG6
		4"	⅞"	6000 lb.	316 Stainless Steel	Stainless Steel	14H405
	5⅜"	4"	⅞"	4500 lb.	Steel, Non-Skid	Yellow Zinc	4TVC5
5"	8¼"	6"	1 1/16"	10,000 lb.	Nylon	Stainless Steel	4TTT4

Base Dia.	H	Bolt Length	Hex	Load Capacity	Base	Finish	Item No.
¾-10 Thread Size							
3"	3½"	2"	1 1/16"	7400 lb.	Steel	Yellow Zinc	2G369
		2"	1 1/16"	7400 lb.		Nickel	2G370
		2"	1 1/16"	7400 lb.	316 Stainless Steel	Stainless Steel	14H411
	3⅝"	2"	1 1/16"	1800 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4TVG5
		2"	1 1/16"	1800 lb.		Stainless Steel	4TVH2
		2"	1 1/16"	5500 lb.	Stainless Steel, Non-Skid	Stainless Steel	1XEV6
		2"	1 1/16"	7400 lb.	Steel, Non-Skid	Nickel	14H395
	5½"	4"	1 1/16"	1800 lb.	Delrin®	Yellow Zinc	4NYP1
		4"	1 1/16"	1800 lb.		Stainless Steel	4NYR8
		4"	1 1/16"	7400 lb.	Steel	Yellow Zinc	4NYE9
		4"	1 1/16"	7400 lb.	Stainless Steel	Stainless Steel	4NYF8
		4"	1 1/16"	7400 lb.	Steel	Nickel	4NYG7
		4"	1 1/16"	7400 lb.	316 Stainless Steel	Stainless Steel	14H406
	5⅝"	4"	1 1/16"	1800 lb.	Delrin® w/ Non-Skid Pad	Yellow Zinc	4NYP9
		4"	1 1/16"	5500 lb.	Stainless Steel, Non-Skid	Stainless Steel	4TVE4
		4"	1 1/16"	5500 lb.	Steel, Non-Skid	Yellow Zinc	4TVC6
1-8 Thread Size							
4"	5⅜"	3½"	1⅜"	20,000 lb.	Steel	Yellow Zinc	2G371
	5½"	3½"	1⅜"	15,000 lb.	Steel, Non-Skid	Yellow Zinc	2G407
		3½"	1⅜"	20,000 lb.		Nickel	14H396
	6⅛"	4¼"	1⅜"	20,000 lb.	Steel	Yellow Zinc	4NYF1
	7⅛"	6"	1⅜"	20,000 lb.	Stainless Steel	Stainless Steel	4NYG1
		6"	1⅜"	20,000 lb.	Steel	Yellow Zinc	4NYF2
	8"	6"	1⅜"	15,000 lb.	Stainless Steel, Non-Skid	Stainless Steel	4TVE6
		8"	1⅜"	20,000 lb.	Stainless Steel	Stainless Steel	4NYG2
	9⅛"	8"	1⅜"	20,000 lb.	Steel	Yellow Zinc	4NYF3
		8"	1⅜"	20,000 lb.	316 Stainless Steel	Stainless Steel	14H410
	10"	8"	1⅜"	15,000 lb.	Steel, Non-Skid	Yellow Zinc	4TVC9
M8 Thread Size							
1"	2 1/16"	1¼"	½"	750 lb.	Steel, Non-Skid	Yellow Zinc	4NYL1
		1¼"	½"	750 lb.	Stainless Steel, Non-Skid	Stainless Steel	4NYL8
M10 Thread Size							
1¼"	2⅞"	2"	⅝"	3750 lb.	Steel	Yellow Zinc	4NYJ6
		2"	⅝"	3750 lb.	316 Stainless Steel	Stainless Steel	14H414
M12 Thread Size							
1⅞"	3⅛"	2"	¾"	5000 lb.	Steel	Yellow Zinc	4NYJ7
		2"	¾"	5000 lb.	316 Stainless Steel	Stainless Steel	14H415
	3¼"	2"	¾"	3750 lb.	Steel, Non-Skid	Yellow Zinc	4NYL3
		2"	¾"	3750 lb.	Stainless Steel, Non-Skid	Stainless Steel	4NYN1
M24 Thread Size							
4"	4¼"	4¼"	1⅜"	20,000 lb.	Steel	Yellow Zinc	4NYK2
Low Profile							
⅜-16 Thread Size							
2"	4 1/16"	3"	¾"	2000 lb.	Steel	Clear Zinc	5VM94
		3"	¾"	1500 lb.	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRP1
2½"	4 1/16"	3"	¾"	1500 lb.	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRU8
½-13 Thread Size							
2"	4 1/16"	3"	¾"	3500 lb.	Steel	Clear Zinc	5VM95
	7 7/16"	6"	¾"	3000 lb.	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRU5
3"	4 1/16"	3"	¾"	3500 lb.	Steel	Clear Zinc	4TRH6
	4 1/16"	3"	¾"	3000 lb.	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRR6
4"	4 1/16"	3"	¾"	3500 lb.	Stainless Steel	Stainless Steel	4TRN2
	4 1/16"	3"	¾"	3000 lb.	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRT3
⅝-11 Thread Size							
2½"	7 7/16"	6"	⅞"	4500 lb.	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRP6
		6"	⅞"	4500 lb.	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRV4
3"	4 1/16"	3"	⅞"	5000 lb.	Steel	Clear Zinc	5VM96
4"	7 7/16"	6"	⅞"	4500 lb.	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRT6

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**

Pallet Rack Information

PALLET RACK CONSTRUCTION



Bolted | Lynx® | Teardrop

PALLET RACK STYLE



Roll-Formed | Structural

Pallet racks are designed to store large and often heavy loads that are on a pallet, in a container, or loose, such as bar stock. In order to choose the correct pallet rack, first determine the measurements of the largest load that will be stored and the weight of the heaviest load. This will help determine the load capacity and number of levels required.

Upright frames and beams can then be ordered to complete the pallet rack. Bays can be strung together by ordering the proper number of beams and one additional upright for each bay added. After the pallet rack is assembled, pallet rack decking can be used to help secure loads. Accessories can also be added as needed.

Before selecting a pallet rack, please be sure to check local ordinances for building code and seismic requirements, which may reduce the capacities listed or require factory modifications.

ACCESSORIES

Crossbars/Beam Ties
Span the distance between beams to stabilize loads.

Wall Spacers
Connect racks to walls for added stability.

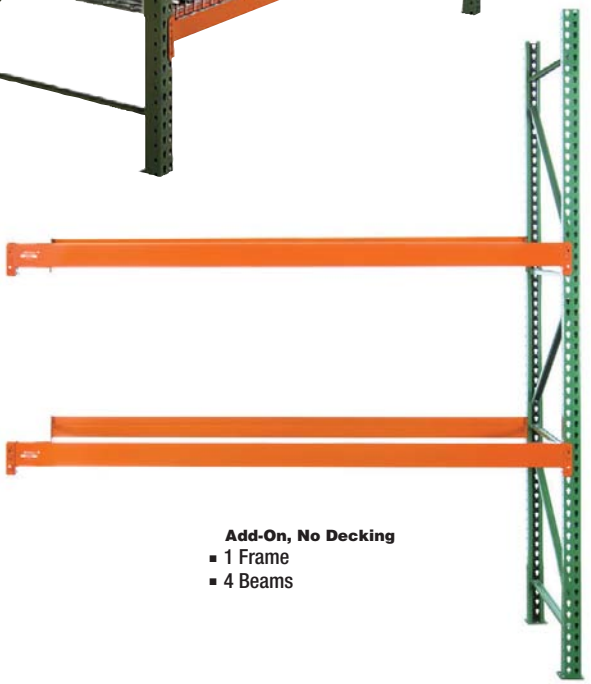
Row Spacers
Connect and evenly space two rows of rack back to back.

Rack and Frame Protectors
Reduce impact damage from vehicular traffic.



Starter with Decking
- 2 Frames
- 4 Beams
- 4 Decks





Add-On, No Decking
- 1 Frame
- 4 Beams

Teardrop Roll-Formed Pallet Rack Units

HUSKY RACK & WIRE™

- Fully-welded, steel teardrop frame design
- Rack Manufacturer's Institute (RMI) Certified
- Boltless assembly

Fully configured rack units include frames, beams, and choice of decking or no decking.

Usable Width	Overall Height	Overall Depth	Cap. per Shelf*	STARTER WITH WIRE DECKING Item No.	ADD-ON WITH WIRE DECKING Item No.	STARTER NO DECKING Item No.	ADD-ON NO DECKING Item No.
96"	96"	36"	6111 lb.	59LA55	59LA56	—	—
	96"	42"	6111 lb.	21E923	21E934	—	—
	96"	42"	4044 lb.	21E922	21E933	—	—
	96"	48"	6111 lb.	59LA59	59LA60	59LA57	59LA58
	120"	36"	6111 lb.	48WK62	48WK61	48WK60	48WK59
	120"	42"	4044 lb.	21E926	21E937	—	—
	120"	42"	6111 lb.	21E927	21E938	—	—
	120"	48"	6111 lb.	41E308	41E309	41D998	41D999
	144"	36"	6111 lb.	41E316	41E317	41E314	41E315
	144"	42"	5047 lb.	41E320	41E321	41E318	41E319
	144"	42"	6111 lb.	41E324	41E325	41E322	41E323
	144"	48"	5047 lb.	41E328	41E329	41E326	41E327
	192"	42"	4044 lb.	453C47	453C48	453C49	453C50
	192"	42"	5047 lb.	453C51	453C52	453C53	453C54
	192"	42"	6111 lb.	453C55	453C56	453C57	453C58
108"	96"	36"	5000 lb.	21E920	21E931	—	—
	96"	42"	5000 lb.	21E924	21E935	—	—
	120"	36"	5000 lb.	48WK66	48WK65	48WK64	48WK63
	120"	42"	5000 lb.	21E928	21E939	—	—
	144"	42"	5000 lb.	41E332	41E333	41E330	41E331
	192"	42"	5000 lb.	453C59	453C60	453C61	453C62
120"	96"	36"	4062 lb.	21E921	21E932	—	—
	96"	42"	4062 lb.	21E925	21E936	—	—
	96"	48"	4062 lb.	41D996	41D997	41D994	41D995
	120"	36"	4062 lb.	48WK70	48WK69	48WK68	48WK67
	120"	42"	4062 lb.	21E929	21E940	—	—
	120"	48"	4062 lb.	41E312	41E313	41E310	41E311
	144"	42"	4062 lb.	41E336	41E337	41E334	41E335
	192"	42"	4062 lb.	453C63	453C64	453C65	453C66

** Capacity based on evenly distributed loads.*

HUSKY RACK & WIRE™

Teardrop Roll-Formed Pallet Rack Components

- Fully-welded, steel teardrop frame design
- Rack Manufacturer's Institute (RMI) Certified, except No. 41D989
- Boltless assembly
- Choose frames, beams, and wire decking separately for custom configurations

Upright Frames—Feature teardrop punch pattern every 2". Horizontally and diagonally braced frames create a strong, stable system. Standard prepunched footplates make anchoring easy. Corrosion-resistant, green polyurethane finish.

Overall Height	Overall Depth	Load Cap.†	Item No.
Upright Frames			
96"	36"	21,400 lb.	**1KBC1**
	42"	21,400 lb.	**1KBC3**
	48"	21,400 lb.	**1KBC7**
120"	42"	21,400 lb.	**1KBC4**
	48"	21,400 lb.	**1KBC8**
144"	36"	21,400 lb.	**1KBC2**
	42"	21,400 lb.	**1KBC5**
	42"	29,400 lb.	**1KBD1**
	48"	21,400 lb.	**1KBC9**
192"	42"	19,380 lb.	**1KBC6**
	42"	29,400 lb.	**1KBD2**
	48"	24,957 lb.	**8E593**
240"	42"	29,400 lb.	**1KBD3**

Overall Width	Overall Height	Load Cap.*	Item No.
Beams			
48"	3"	7580 lb.	**21E914**
96"	3½"	4190 lb.	**21E915**
	4"	5210 lb.	**1KBD6**
	4½"	6270 lb.	**1KBD7**
108"	4⅝"	5060 lb.	**21E916**
	5½"	9100 lb.	**1KBE2**
120"	4⅜"	4190 lb.	**21E917**
144"	4⅝"	3020 lb.	**21E918**
	5½"	5680 lb.	**1KBE3**
	6"	8300 lb.	**1KBE4**

Beams—Beams feature a safety clip which cannot be sprung or removed without first removing the beam; no special tools required. An audible click or simple glance confirms the lock is engaged. Corrosion-resistant, orange polyurethane finish.

Wire Decking—Made from 6-ga., galvanized steel wire. Wire decking offers strength and allows airflow around materials. Drop-in design makes setup fast and easy; no tools required.

Many county fire marshals require the use of wire decks instead of plywood supports.

Overall Width	Overall Depth	Load Cap.*	Item No.
Pallet Rack Wire Decking			
46"	36"	3250 lb.	**2JGK2**
	42"	2610 lb.	**2JGK5**
	48"	2100 lb.	**6GGL3**
52"	36"	3250 lb.	**2JGK3**
	42"	2610 lb.	**2JGK6**
	48"	2100 lb.	**6GGL4**
58"	36"	3900 lb.	**2JGK4**
	42"	3150 lb.	**6GGL2**
	48"	2630 lb.	**6GGL5**

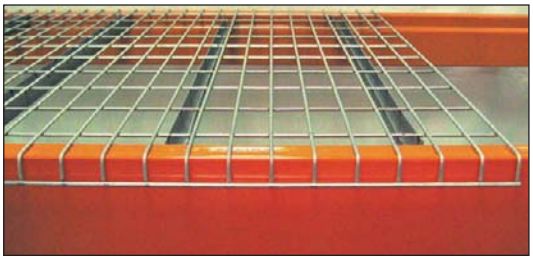
Overall Width	Overall Depth	Overall Height	Item No.
Cross Bar, Galvanized			
36"	3⅜"	1½"	**1KBF3**
42"	3⅜"	1½"	**1KBF4**
48"	3⅜"	1½"	**1KBF5**
Row Spacer‡, Galvanized			
Back of Upright to Anchor to the Wall			
6"	3¼"	1⅝"	**1KBE8**
8"	3¼"	1⅝"	**1KBE9**
12"	3¼"	1⅝"	**1KBF1**
Back to Back Uprights			
6"	3¼"	1⅝"	**1KBE5**
8"	3¼"	1⅝"	**1KBE6**
12"	3¼"	1⅝"	**1KBE7**
Pallet Rack Guard, Yellow			
4¼"	2½"	12"	**1KBF2**
4¼"	2½"	18"	**2CAX9**
Upright Shim, Gray			
4¼"	—	—	**41D989**
Floor Anchor, Gray			
½"	½"	4¾"	**53CU97**



Welded Upright Frame No. 1KBC1



Beam No. 21E914



Wire Decking No. 2JGK2

** Capacity based on evenly distributed loads. † Capacity based on 36" max. beam spacing. ‡ Hardware included.*

Teardrop Roll-Formed Pallet Rack Components

STEEL KING BUILT TO DELIVER

- Boltless assembly
- Seismic components are available online, see Grainger.com®

Closed tubular columns and braces generate 250% greater durability against fork truck damage.

Upright Frames—Multiple offset anchor holes provide flexibility in anchor placement. Footpad with nesting ridge provides easy shim nesting, and flush footpad to column base evenly disperses load weight. Vista green powder-coat finish.

Beams—Teardrop and rivet design with heavy-duty connection plates allows easy installation and greater connection integrity. Auto-engaging safety clip resists beam disengagement and provides an audible click when secured. Poppy orange powder-coat finish.

Overall Height	Overall Depth	Load Cap.*	Item No.
Teardrop Pallet Rack Upright Frames			
96"	36"	27,790 lb.	**4GWA9**
	42"	27,790 lb.	**4GWC3**
	48"	27,790 lb.	**4GWC8**
120"	36"	27,790 lb.	**4GWC1**
	42"	27,790 lb.	**4GWC4**
	48"	27,790 lb.	**4GWC9**
144"	36"	27,790 lb.	**4GWC2**
	42"	27,790 lb.	**4GWC5**
	42"	41,430 lb.	**4GWD2**
	48"	27,790 lb.	**4GWD1**
192"	42"	27,790 lb.	**4GWC6**
	42"	41,430 lb.	**4GWD3**
	48"	41,430 lb.	**46M190**
216"	42"	41,430 lb.	**4GWD4**
240"	42"	27,790 lb.	**4GWC7**
	42"	41,430 lb.	**4GWD5**

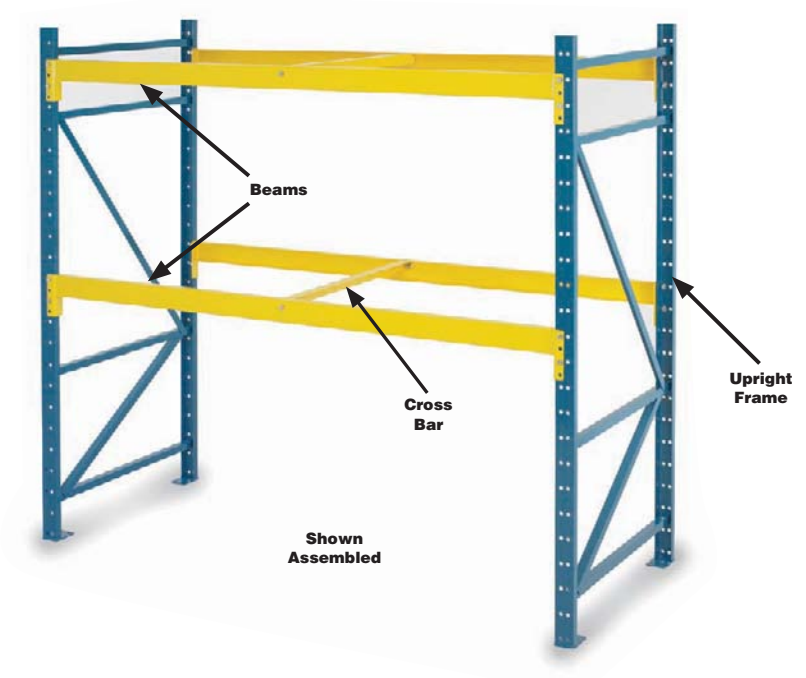
Overall Width	Overall Height	Load Cap.*	Item No.
Teardrop Pallet Rack Beams			
48"	2⅝"	4260 lb.	**10W860**
96"	3⅜"	3020 lb.	**10W861**
	3⅝"	4000 lb.	**10W862**
	4⅛"	5080 lb.	**10W863**
	4 13⁄16"	6080 lb.	**10W864**
108"	3 11⁄16"	3240 lb.	**10W865**
	5½"	7320 lb.	**10W866**
120"	5⅝"	6700 lb.	**10W867**
144"	6⅛"	8020 lb.	**10W868**

Overall Depth	Overall Width	Overall Height	Item No.
Pallet Rack Supports†, Galvanized			
Hat-Shaped Style			
42"	3"	1½"	**4GWA2**
Waterfall Style			
36"	2⅞"	1½"	**4GWA3**
42"	2⅞"	1½"	**4GWA4**
48"	2⅞"	1½"	**4GWA5**
Teardrop Pallet Rack Row Spacers†, Galvanized			
8"	3"	2 1⁄16"	**4GWA7**
3"	10"	2 1⁄16"	**4GWA8**



Shown Assembled

** Capacity based on 48" max. beam spacing. † Hardware included.*



STEEL KING
BUILT TO DELIVER

Bolted Structural Channel Pallet Rack Components

- Fully welded steel construction
- Powder-coat finish resists chips and chemicals

Upright Frames—Hot-rolled structural channel columns are specially punched for 2" beam adjustability. Full horizontal and diagonal bracing increases frame strength. 7-ga. baseplate welded to column disperses floor load and increases stability. Multiple anchor holes allow easy floor mounting. Precaution Blue color.

Beams—Made with high-strength structural steel (50,000 psi min.) for superior rigidity and durability. Feature 2-bolt beam connections and 7-ga. wraparound connector plate to help square rack into position and create a tighter connection. Yellow color.

Cross bars are sold separately.

		LOAD CAPACITY*			
		39,990 lb.		56,860 lb.	
H	D	Width	Item No.	Width	Item No.
Upright Frames					
96"	36"	3"	2KGC3	4"	2CAA5
	42"	3"	2KGC4	4"	2CAA6
	48"	3"	2KGC5	4"	2CAA7
120"	36"	3"	2KGC6	4"	2CAA8
	42"	3"	2KGC7	4"	2CAA9
	48"	3"	2KGC8	4"	2CAC1
144"	36"	3"	2KGC9	4"	2CAC2
	42"	3"	2KGD1	4"	2CAC3
	48"	3"	2CAA1	4"	2CAC4
192"	36"	3"	2CAA2	4"	2CAC5
	42"	3"	2CAA3	4"	2CAC6
	48"	3"	2CAA4	4"	2CAC7

** Capacity based on 48" max. beam spacing.*

L	H	Cap. per Shelf*	Pkg. Qty.	Item No.
Channel Beams				
72"	3"	5960 lb. with no Beam Tie, 7480 lb. with Beam Tie	2	2CAC8
96"	3"	4900 lb. with no Beam Tie, 5460 lb. with Beam Tie	2	2CAC9
	4"	7120 lb. with no Beam Tie, 10,180 lb. with Beam Tie	2	2CAE2
108"	3"	4040 lb. with no Beam Tie, 4420 lb. with Beam Tie	2	2CAE3
	4"	5660 lb. with no Beam Tie, 8820 lb. with Beam Tie	2	2CAE5
	5"	7880 lb. with no Beam Tie, 12,880 lb. with Beam Tie	2	2CAE6
120"	3"	3320 lb. with no Beam Tie, 3680 lb. with Beam Tie	2	2CAE7
	4"	4600 lb. with no Beam Tie, 7340 lb. with Beam Tie	2	2CAE8
	5"	6360 lb. with no Beam Tie, 11,180 lb. with Beam Tie	2	2CAE9
144"	5"	4420 lb. with no Beam Tie, 8580 lb. with Beam Tie	2	2CAF1

W	H	D	Item No.
Rack Guard Right Side, Yellow			
7¾"	5"	—	2KFZ9
Rack Guard Left Side, Yellow			
7¾"	5"	—	2KGA1
Rack Frame Protector, Yellow			
8"	12"	4"	2KGA6
8"	24"	4"	2KGA7

L	Color	Item No.
Beam Ties		
For 3" and 4"H Beams		
36"	Yellow	2ZNZ6
42"	Yellow	2ZNZ7
48"	Yellow	2ZNZ8
For 5"H Beams		
36"	Yellow	2ZNZ9
42"	Yellow	2ZPA1
48"	Yellow	2ZPA2
Row Spacers		
3"W		
8"	Precaution Blue	2CAF2
10"	Precaution Blue	2CAF3
12"	Precaution Blue	2CAF4
4"W		
8"	Precaution Blue	2CAF5
10"	Precaution Blue	2CAF6
12"	Precaution Blue	2CAF7



HUSKY RACK & WIRE

Lynx® Roll-Formed Pallet Rack Components

- Fully-welded steel construction
- Upright frames and step beams are sold separately to allow for custom configurations
- Boltless assembly
- Corrosion-resistant polyurethane finish
- Accessories can be found on page 1227

Welded Upright Frames—Angle keyhole-slotted punch pattern every 3". Horizontally and diagonally braced frame creates a strong, stable upright system. Prepunched footplates for easy anchoring. Gray color.

Beams—Install without tools. The 3-prong connector features a front engaged spring-loaded safety clip that seats in the upright frame. Yellow color.

H	D	Load Capacity*	Item No.
Welded Upright Frames			
72"	36"	19,380 lb.	2CAV7
	42"	19,380 lb.	2CAW2
96"	36"	19,380 lb.	2CAV8
	42"	19,380 lb.	2CAW3
120"	36"	19,380 lb.	2CAV9
	42"	19,380 lb.	2CAW4
	42"	24,957 lb.	2CAW7
144"	36"	19,380 lb.	2CAW1
	36"	24,957 lb.	2CAW6
	42"	19,380 lb.	2CAW5
	42"	24,957 lb.	2CAW8
192"	42"	24,957 lb.	2CAW9

L	H	Load Capacity*	Item No.
Pallet Rack Beams			
96"	4"	4564 lb.	2CAX1
	5"	6906 lb.	2CAX2
	5½"	9674 lb.	2CAX3
108"	4½"	4489 lb.	2CAX4
	5½"	8530 lb.	2CAX5
120"	5"	4828 lb.	2CAX6
	5½"	7182 lb.	2CAX7
144"	6"	6125 lb.	2CAX8

** Capacity based on 48" max. beam spacing.*



No. 21Y415

Wire Mesh Decking for Pallet Racks and Bulk Storage

worldwide materialhandling

- 14-ga. support channel design
- Gray powder-coat finish

Heavy-gauge, all-welded construction is stronger and more cost effective than wood. Provide maximum waterflow for fire code compliance, and maximum airflow and light for enhanced visibility and improved housekeeping. Drop-in design allows for easy, tool-free installation.

Overall Width	Overall Depth	Load Cap.*	Item No.
Bulk Storage Wire Decking			
48"	24"	750 lb.	**21Y436**
	36"	750 lb.	**21Y437**
	48"	750 lb.	**21Y438**
72"	24"	750 lb.	**21Y439**
	36"	750 lb.	**21Y440**
	48"	750 lb.	**21Y441**

** Based on evenly distributed loads.*

Wire Decking Style	Overall Width	Overall Depth	Load Cap.*	Item No.
Pallet Rack Wire Decking				
Waterfall, Flare Channel	46"	24"	3200 lb.	**21Y415**
	46"	30"	3000 lb.	**21Y416**
	46"	36"	2500 lb.	**21Y417**
	46"	42"	2500 lb.	**49P404**
	46"	48"	2500 lb.	**49P406**
	52"	42"	2500 lb.	**49P405**
Waterfall, Standard Channel	46"	36"	3200 lb.	**21Y421**
	46"	42"	2000 lb.	**49P412**
	46"	42"	2500 lb.	**21Y424**
	46"	44"	2500 lb.	**21Y429**
	46"	48"	2500 lb.	**21Y431**
	46"	48"	2850 lb.	**21Y432**
	46"	60"	2500 lb.	**49P411**
	52"	36"	3000 lb.	**21Y422**
	52"	42"	2500 lb.	**21Y427**
	52"	44"	2500 lb.	**49P408**
	52"	48"	2500 lb.	**49P409**
	58"	36"	2500 lb.	**21Y423**
	58"	42"	2500 lb.	**21Y428**
	58"	48"	2500 lb.	**49P410**

worldwide materialhandling

Double-Flanged Pallet Support Crossbars

- 16-ga. steel construction
- 4-corner roll-formed design
- Galvanized finish

Designed to lay on top of the pallet rack beam to help reduce beam spread. For use with all 1⅝" step beams. Easy to install without tools.



No. 49P413

Overall Depth	Overall Width	Load Cap.	Item No.
36"	2"	1550 lb.	**49P413**
42"	2"	1450 lb.	**49P414**
44"	2"	1350 lb.	**49P415**
48"	2"	1250 lb.	**49P416**

HUSKY RACK & WIRE™

Pallet Rack Guards and Mounting Clips

Aisle Shield™ Rack Guards—Designed with heavy-duty 8-ga. welded wire that has been stiffened with longitudinal flutes. Easy to install with specifically engineered eyebolts, combining simple and fast installation with rigid steel protection.

Mounting Clips—Guards mount to any open side and/or back pallet rack using mounting clips. Require 4 clips per panel; 2 on each side of the rack guard frame. For flush mounting applications, use No. 1LWX2. To offset guard 4" from frame, use No. 1LWX3; 6" from frame, use No. 1LWX4.



Overall Width	Overall Height	Item No.
Aisle Shield™		
96"	36"	**20JJ38**
	48"	**20JJ42**
	60"	**20JJ46**
120"	60"	**20JJ48**
144"	60"	**20JJ49**
Flush Mounting Clips		
¼"	1"	**1LWX2**
Offset Mounting Clips		
4"	1"	**1LWX3**
6"	1"	**1LWX4**



No. 4AYN7

NashvilleWire PRODUCTS

Wire Decking for Pallet Racks

- Fully-welded steel construction
- Upright frames and beams are sold separately to allow for custom configurations

Made from 5-ga. wire with 14-ga. channels. Wire mesh decking improves fire safety and inventory visibility. Drop-in design for easy installation without tools.

Overall Width	Overall Depth	Load Cap.†	Item No.
46"	36"	2900 lb.	**4AYN7**
	42"	2550 lb.	**4AYP1**
	48"	2550 lb.	**4AYP4**
52"	36"	3000 lb.	**4AYN8**
	42"	2450 lb.	**4AYP2**
	48"	2650 lb.	**4AYP5**
58"	36"	3150 lb.	**4AYN9**
	42"	2600 lb.	**4AYP3**
	48"	2900 lb.	**4AYP6**

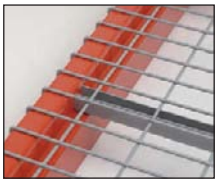
† Based on evenly distributed loads.

NashvilleWire PRODUCTS

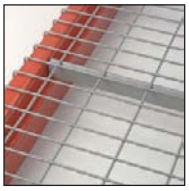
Pallet Rack Decking

- 2½" x 4" wire mesh pattern allows waterflow for enhanced fire safety
- Compatible with Wireway Husky, Interlake, and many other brands of 36", 42", and 48" deep pallet racks

Waterfall-style decking wraps over the beam and provides a secure brace, eliminating movement between deck and beam. 5-ga. welded wire.



Standard Channel, Gray Powder-Coated



Inverted Channel, Zinc-Plated

Overall Width	Overall Depth	GRAY POWDER COATED Load Cap.*	GRAY POWDER COATED Item No.	ZINC Load Cap.*	ZINC Item No.
Standard Channel Decking					
46"	36"	3450 lb.	**4AYR7**	2700 lb.	**14F906**
	42"	2950 lb.	**4AYR1**	2500 lb.	**14F909**
	48"	3000 lb.	**4AYR4**	2500 lb.	**14F912**
52"	36"	3600 lb.	**4AYP8**	2700 lb.	**14F907**
	42"	3050 lb.	**4AYR2**	2700 lb.	**14F910**
	48"	3200 lb.	**4AYR5**	2500 lb.	**14F913**
58"	36"	3750 lb.	**4AYP9**	2700 lb.	**14F908**
	42"	3200 lb.	**4AYR3**	2750 lb.	**14F911**
	48"	3300 lb.	**4AYR6**	2500 lb.	**14F914**
Inverted Channel Decking					
46"	36"	—	—	2700 lb.	**4AYR7**
	42"	—	—	2600 lb.	**4AYT1**
	48"	—	—	2600 lb.	**4AYT4**
52"	36"	—	—	2850 lb.	**4AYR8**
	42"	—	—	2700 lb.	**4AYT2**
	48"	—	—	2750 lb.	**4AYT5**
58"	36"	—	—	2950 lb.	**4AYR9**
	42"	—	—	2800 lb.	**4AYT3**
	48"	—	—	2850 lb.	**4AYT6**

** Based on evenly distributed loads.*

Overall Width	Overall Depth	Overall Height	Item No.
2 Shelving Bays			
96"	36"	96"	**38XY38**
		120"	**38XY74**
		144"	**38XY44**
108"	42"	96"	**38XY77**
		120"	**38XY47**
		144"	**38XY65**
	48"	96"	**38XZ16**
		120"	**38XY98**
		144"	**38XZ52**
120"	36"	96"	**38XZ47**
		120"	**38XZ17**
		144"	**38XY86**
	42"	96"	**38XY95**
		120"	**38XZ09**
		144"	**38XX97**
	48"	96"	**38XY09**
		120"	**38XZ55**
		144"	**38XZ58**
3 Shelving Bays			
96"	42"	96"	**38XZ30**
		120"	**38XY53**
		144"	**38XY61**
108"	48"	144"	**38XX95**



No. 38XY53 3 Shelving Bays

WireCrafters

Pallet Rack Enclosures

Secure bulk items and help prevent theft of high-value inventory. Panels and doors are made of 10-ga. wire welded in a 2" x 2" square mesh. Enclosures are durable and easy to install.

Magnetic C-Channel Cardholders



Slip 'N Stik™ Label Holder Kit



Superscan® Label Holder



ALH AIGNER LABEL HOLDER SUPERSCAN

Shelving and Pallet Rack Identification

Magnetic Label Rolls, Write-On/Wipe-Off—Custom labels that can be easily erased and reused. Clear vinyl topcoat can be used with any standard wet- or dry-erase marker.

Magnetic C-Channel Cardholders—Allow for quick changes in ID cards. Easily repositioned.

Slip 'N Stik™ Label Holder Kit—Print signs using the high-visibility yellow laser/inkjet paper provided. Snap into pallet rack assembly holes and snap out to relocate. Holds any sign up to ⅛" thick. Kit includes 10 holders and twelve 11" x 8½" sheets of laser/inkjet paper.

Superscan® Label Holders—Special matte finish for accurate bar code scanning. Laser/inkjet-ready inserts are easy to print, insert, and remove.

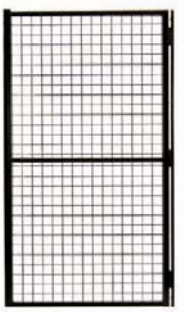
W	L	Color	Brand	Item No.
Magnetic Label Roll, Write On/Wipe Off				
1"	50 ft.	White	Aigner Index	4DE44
2"	50 ft.			4DE45
3"	50 ft.			4DE46
Magnetic C-Channel Cardholders, Rolls				
1"	50 ft.	Black	Aigner Index	1FYB1
2"	50 ft.			1FYB2
3"	50 ft.			1FYB3

Color	Brand	Item No.	Pkg. Qty.
Slip 'N Stik™ Label Holder Kit			
Yellow	Aigner Index	4DE40	10

W	H	Color	Brand	Item No.	Pkg. Qty.
Superscan® Label Holder - Self-Adhesive					
5"	3"	Clear	Superscan	3FU86	50
Superscan® Label Holder - Magnetic					
5"	3"	Clear	Superscan	3FU87	50
6"	4"	Clear	Superscan	4TR23	50



Hinged Door



HUSKY

Velox® Machine Guard System

- Includes installation hardware

Easy-to-assemble barriers protect workers from dangerous machinery, equipment, and robotic cells. 8-ga. panels are welded to a 2" x 2" wire grid pattern. Order panels separately. Use hook fasteners and drive pins (included) to fasten into a 16-ga. 2½" square steel post. Components come with welded footplates and anchor bolts. System installs 50% faster than most other wire guarding products and are easily modified to accommodate field obstructions.

Description	H	W	Item No.
Doors			
Machine Guard Sliding Door Left Open	6 ft.	5 ft.	48RN11
Machine Guard Sliding Door Right Open	6 ft.	5 ft.	48RN12
Machine Guard Swing Door	5½ ft.	2 ft. 10"	6TMK9
Machine Guard Swing Door	6 ft.	3 ft. 10"	6TML0
Machine Guard Custom Panel Kit	—	—	6TML6

H	W	Item No.
Machine Guard Panels		
6 ft.	10"	23PC13
6 ft.	22"	23PC14
6 ft.	34"	23PC15
6 ft.	46"	23PC16
6 ft.	58"	23PC17
6 ft.	70"	23PC18
6 ft.	82"	23PC19
6 ft.	94"	23PC20

Description	H	Item No.
Posts		
Machine Guard Corner Post	6 ft.	6TMK6
Machine Guard Slide Door Post	6 ft.	48RN13
Machine Guard Swing Door Post	6 ft.	6TMK7
Adjustable Machine Guard Adjustable Corner Post	6 ft.	6TMK8



Collision Sentry® Warning Device

Infrared motion detectors alert forklift drivers and pedestrians to movement in dangerous blind corner intersections. Highly visible LEDs flash and an audible alarm is issued when a collision is imminent. Volume is adjustable. Portable and compact device snaps onto racking for immediate deployment. Runs on D batteries (included) and features a low-battery indicator.

Overall Depth	Overall Width	Color	Item No.
3½"	6½"	Yellow	437T14



No. 41A011

Rack Sentry® Pallet Rack Protectors

Attach protectors to rack uprights to create a highly visible protective layer that withstands abuse from forklift collisions. Flexible EVA construction absorbs impact and then quickly returns to shape. Install directly onto uprights eliminating the need for drilling into and putting additional stress on the floor.

Usable Opening W	Usable Opening D	Overall Dim. W	Overall Dim. H	Item No.
3"	3"	5¼"	18"	41A011
3¼"	3"	5¼"	18"	41A014
3½"	3"	6½"	18"	41A015
4"	3"	6¼"	18"	41A016
4¾"	3"	7¼"	18"	41A018
w/Beam Cutout				
3"	3"	5¼"	18"	41A012
4"	3"	6½"	18"	41A017
Rack End Mount				
3"	3"	6"	18"	41A013



No. 22NP57

Rack Guard Protectors

GA GRAINGER APPROVED

Floor-mounted uprights are cast steel with rubber bumpers to limit impact damage. Feature C-channel design and easily install to concrete surface. High-visibility powder-coat finish in safety yellow. Include four ⅞"-dia. mounting holes.

Usable Opening W	Usable Opening D	Overall Dim. W	Overall Dim. D	Overall Dim. H	Item No.
Pallet Rack Guard with Bumper					
4½"	3⅜"	8 1/16"	7¾"	12¼"	22NP57
	3⅝"	8 1/16"	7¾"	18¼"	22NP58
	3⅝"	8 1/16"	7¾"	24¼"	22NP59
	3⅝"	8 1/16"	7¾"	36¼"	22NP60
6½"	3⅜"	10 1/16"	7¾"	12¼"	22NP61
	3⅜"	10 1/16"	7¾"	18¼"	22NP62
	3⅜"	10 1/16"	7¾"	24¼"	22NP63
	3⅜"	10 1/16"	7¾"	36¼"	22NP64
Aisle Guard Mounting Clip					
Includes (4) Anchor Bolts					22NP65

Storage Rack Decking Options



NO DECKING
Allows for customization of decking based on need.



PARTICLEBOARD DECKING
Economical choice for heavy load storage. Durable, smooth solid surface. Meets or exceeds ANSI-M2 standards.

LAMINATE DECKING
Laminate surface bonded to particle-board core provides a smooth finished surface that is easy to clean and moisture-resistant.



WIRE DECKING
Wire-mesh design allows a clear view of inventory and prevents accumulation of dirt, oil, and debris. It also maximizes the efficiency of sprinkler systems and allows better air circulation and light penetration.



RIBBED-STEEL DECKING
Provides extra strength and rigidity for heavy load storage. Ribs create a space to grab packages easily without pinching fingers.

ADDITIONAL DECKING
Bulk Storage and Boltless Storage Racks are available with or without decking. Additional decking can be ordered separately on page 1234.

ADDITIONAL SHELF LEVELS
Additional shelves increase the available volume of storage while reducing the customer cost per square foot of storage.

Overall Height	Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.	Ribbed Steel Decking Item No.
48"W Racks, 4150-lb. Shelf Capacity					
Starter					
120"	24"	7D033	7B457	7B493	7B529
	36"	7D034	7B458	7B494	7B530
	48"	7D035	7B459	7B495	7B531
96"	24"	7B995	7D057	7B481	7B517
	36"	7B996	7D058	7B482	7B518
	48"	7B997	7D059	7B483	7B519
72"	24"	7B983	7D045	7B469	7B505
	36"	7B984	7D046	7B470	7B506
	48"	7B985	7D047	7B471	7B507
Add-On					
120"	24"	7B919	7B955	7B181	7B971
	36"	7B920	7B956	7B183	7B972
	48"	7B921	7B957	7B198	7B973
96"	24"	7B907	7B943	7B347	7B289
	36"	7B908	7B944	7B348	7B296
	48"	7B909	7B945	7B349	7B308
72"	24"	7B895	7B931	7B967	7B223
	36"	7B896	7B932	7B968	7B236
	48"	7B897	7B933	7B323	7B260
60"W Racks, 3800-lb. Shelf Capacity					
Starter					
120"	24"	7D036	7B460	7B496	7B532
	36"	7D037	7B461	7B497	7B533
	48"	7D038	7B462	7B498	7B534
96"	24"	7B998	7D060	7B484	7B520
	36"	7B999	7B449	7B485	7B521
	48"	7D026	7B450	7B486	7B522
72"	24"	7B986	7D048	7B472	7B508
	36"	7B987	7D049	7B473	7B509
	48"	7B988	7D050	7B474	7B510
Add-On					
120"	24"	7B922	7B958	7B199	7B974
	36"	7B923	7B959	7B200	7B975
	48"	7B924	7B960	7B201	7B976
96"	24"	7B910	7B946	7B350	7B309
	36"	7B911	7B947	7B142	7B310
	48"	7B912	7B948	7B145	7B311
72"	24"	7B898	7B934	7B324	7B261
	36"	7B899	7B935	7B325	7B262
	48"	7B900	7B936	7B333	7B263
72"W Racks, 2750-lb. Shelf Capacity					
Starter					
120"	24"	7D039	7B463	7B499	7B535
	36"	7D040	7B464	7B500	7B536
	48"	7D041	7B465	7B501	7B537
96"	24"	7D027	7B451	7B487	7B523
	36"	7D028	7B452	7B488	7B524
	48"	7D029	7B453	7B489	7B525
72"	24"	7B989	7D051	7B475	7B511
	36"	7B990	7D052	7B476	7B512
	48"	7B991	7D053	7B477	7B513
Add-On					
120"	24"	7B925	7B961	7B202	7B977
	36"	7B926	7B962	7B213	7B978
	48"	7B927	7B963	7B215	7B979
96"	24"	7B913	7B949	7B147	7B312
	36"	7B914	7B950	7B149	7B313
	48"	7B915	7B951	7B152	7B321
72"	24"	7B901	7B937	7B334	7B270
	36"	7B902	7B938	7B335	7B284
	48"	7B903	7B939	7B336	7B285
96"W Racks, 2150-lb. Shelf Capacity					
Starter					
120"	24"	7D042	7B466	7B502	7B538
	36"	7D043	7B467	7B503	7B539
	48"	7D044	—	7B504	7B540
96"	24"	7D030	—	7B490	7B526
	36"	7D031	7B455	7B491	7B527
	48"	7D032	—	7B492	7B528
72"	24"	7B992	7D054	7B478	7B514
	36"	7B993	7D055	7B479	7B515
	48"	7B994	—	7B480	7B516

Starter
- 2 upright frames
- 3 shelf levels





Add-On
- 1 upright frame
- 3 shelf levels

tennsco® Storage Made Easy

14-Ga. Bulk Storage Racks

- 3 shelf levels
- Gray electro-coated finish
- Adjustable in 2" increments

Allow clear and convenient access from the front or rear. Include welded footplates for floor mounting. Upright assemblies are prewelded for strength and will support up to 17,000 lb. based on 24" shelf centers. Racks include front-to-back supports: 2 per shelf level on 48" and 60"W beams, 3 per level on 72"W beams, and 4 per level on 96"W beams. Available with or without decking. Easy to assemble. No tools required.

Note: Not for use with pallets or as scaffolding.

Overall Height	Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.	Ribbed Steel Decking Item No.
Add-On					
120"	24"	7B928	7B964	7B217	7B980
	36"	7B929	7B965	7B220	7B981
	48"	7B930	—	7B222	7B982
96"	24"	7B916	7B952	7B177	7B322
	36"	7B917	7B953	7B178	7B969
	48"	7B918	—	7B180	7B970
72"	24"	7B904	7B940	7B337	7B286
	36"	7B905	7B941	7B345	7B287
	48"	7B906	—	7B346	7B288

Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.	22-Ga. Ribbed-Steel Decking Item No.
Additional Shelf Levels				
48"W Racks, 4150-lb. Shelf Capacity				
24"	4TV18	7E570	7D438	7D450
36"	4TV19	7E571	7D439	7D451
48"	4TV20	7E572	7D440	7D452
60"W Racks, 3800-lb. Shelf Capacity				
24"	4TV21	7E573	7D441	7D453
36"	4TV22	7E574	7D442	7D454
48"	4TV23	7E575	7D443	7D455
72"W Racks, 2750-lb. Shelf Capacity				
24"	4TV24	7E576	7D444	7D456
36"	4TV25	7E577	7D445	7D457
48"	4TV26	7E578	7D446	7D458
96"W Racks, 2150-lb. Shelf Capacity				
24"	4TV27	7E579	7D447	7D459
36"	4TV28	7E580	7D448	7D460
48"	4TV29	—	7D449	7D461

Description	Item No.
Optional Deck Supports	
For use with 24"D Decking	23WN75
For use with 36"D Decking	32ZT92
For use with 48"D Decking	32ZT93

Find additional Storage Rack Decking information on page 1231.

Starter
- 2 upright frames
- 3 shelf levels



edsal

14-Ga. Bulk Storage Racks

- 3 shelf levels
- Powder-coated finish
- Adjustable in 3" increments

Convenient racks provide easy access from the front or rear and work great in double-entry aisleways. Fully welded with footplate for floor mounting. Starter units include 2 upright frames; add-on units include 1 upright frame. 48" and 60"W units include 1 front-to-back support per level; 72" and 96"W units include 3 front-to-back supports per level.

Overall Height	Overall Height	Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.	Ribbed Steel Decking Item No.
48 inW Racks, 3,800 lb Shelf Capacity						
Starter						
96 in	96 in	24 in	10Z419	10Z491	10Z455	10Z576
		36 in	10Z421	10Z493	10Z457	10Z578
		48 in	10Z423	10Z495	10Z459	10Z580
72 in	72 in	24 in	10Z413	10Z485	10Z449	10Z570
		36 in	10Z415	10Z487	10Z451	10Z572
		48 in	10Z417	10Z489	10Z453	10Z574
Add-On						
96 in	96 in	24 in	10Z420	10Z492	10Z456	10Z577
		36 in	10Z422	10Z494	10Z458	10Z579
		48 in	10Z424	10Z496	10Z460	10Z581
72 in	72 in	24 in	10Z414	10Z486	10Z450	10Z571
		36 in	10Z416	10Z488	10Z452	10Z573
		48 in	10Z418	10Z490	10Z454	10Z575
60 inW Racks, 3,600 lb Shelf Capacity						
Starter						
96 in	96 in	24 in	10Z437	10Z510	12M965	10Z594
		36 in	10Z439	10Z512	12M967	10Z596
		48 in	10Z441	10Z514	12M969	10Z598
72 in	72 in	24 in	10Z431	10Z504	12M959	10Z588
		36 in	10Z433	10Z506	12M961	10Z590
		48 in	10Z435	10Z508	12M963	10Z592
Add-On						
96 in	96 in	24 in	10Z438	10Z511	12M966	10Z595
		36 in	10Z440	10Z513	12M968	10Z597
		48 in	10Z442	10Z515	12M970	10Z599
72 in	72 in	24 in	10Z432	10Z505	12M960	10Z589
		36 in	10Z434	10Z507	12M962	10Z591
		48 in	10Z436	10Z509	12M964	10Z593
72 inW Racks, 2,000 lb Shelf Capacity						
Starter						
72 in	72 in	24 in	—	10Z540	12M977	—
72 inW Racks, 2,800 lb Shelf Capacity						
96 in	96 in	24 in	10Z473	10Z546	12M983	12M893
		36 in	10Z475	10Z548	12M985	12M895
		48 in	10Z477	10Z550	12M987	12M897
72 in	72 in	24 in	10Z467	—	—	12M887
		36 in	10Z469	10Z542	12M979	12M889
		48 in	10Z471	10Z544	12M981	12M891
Add-On						
96 in	96 in	24 in	10Z474	10Z547	12M984	12M894
		36 in	10Z476	10Z549	12M986	12M896
		48 in	10Z478	10Z551	12M988	12M898
72 in	72 in	24 in	10Z468	10Z541	12M978	12M888
		36 in	10Z470	10Z543	12M980	12M890
		48 in	10Z472	10Z545	12M982	12M892
96 inW Racks, 1,800 lb Shelf Capacity						
Starter						
96 in	96 in	24 in	10Z528	10Z562	12N002	12M912
		36 in	10Z530	10Z564	12N004	12M914
		48 in	10Z532	—	12N006	12M916
72 in	72 in	24 in	10Z522	10Z558	12M995	12M906
		36 in	10Z524	10Z560	12M997	12M908
		48 in	10Z526	—	12M999	12M910
Add-On						
96 in	96 in	24 in	10Z529	—	12N003	12M913
		36 in	10Z531	10Z565	12N005	12M915
		48 in	10Z533	—	12N007	12M917
72 in	72 in	24 in	10Z523	10Z559	12M996	12M907
		36 in	10Z525	10Z561	12M998	12M909
		48 in	10Z527	—	12N001	12M911

Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.	Ribbed Steel Decking Item No.
Additional Shelf Levels				
48 inW Racks, 3,800 lb Shelf Capacity				
24 in	12M924	12M948	12N014	12M936
36 in	12M925	12M949	12N015	12M937
48 in	12M926	12M950	12N016	12M938
60 inW Racks, 3,600 lb Shelf Capacity				
24 in	12M927	12M951	12N017	12M939
36 in	12M928	12M952	12N018	12M940
48 in	12M929	12M953	12N019	12M941
72 inW Racks, 2,800 lb Shelf Capacity				
24 in	12M930	12M954	12N020	12M942
36 in	12M931	12M955	12N021	12M943
48 in	12M932	12M956	12N022	12M944
96 inW Racks, 1,800 lb Shelf Capacity				
24 in	12M933	12M957	12N023	12M945
36 in	12M934	12M958	12N024	12M946
48 in	12M935	—	12N025	12M947



Starter
- 2 upright frames
- 3 shelf levels

Overall Height	Overall Depth	Particle Board Decking Item No.	Std.	Galvanized Wire Decking Item No.	Std.
60"W Racks					
Starter					
72"	18"	—		2EKN9	*
	19⅞"	2EKL6	*	—	
	24"	2EKL9		2EKP3	*
	36"	3NUY1		3NUY5	*
Add-On					
72"	18"	2EKL7		2EKP1	*
	24"	2EKN1		2EKP4	*
	36"	3NUY2	*	3NUY6	*
72"W Racks					
Starter					
72"	18"	1LXG3		1LXF3	*
	24"	1LXG6		1LXF6	*
	36"	2EKN3		2EKP6	*



Add-On
- 1 upright frame
- 3 shelf levels

Overall Height	Overall Depth	Particle Board Decking Item No.	Std.	Galvanized Wire Decking Item No.	Std.
Add-On					
72"	18"	1LXG4		1LXF4	*
	24"	1LXG7		1LXF7	*
	36"	2EKN4		2EKP7	*
96"W Racks					
Starter					
96"	18"	3NUY3	*	3NUY7	*
	24"	1LXG9	*	1LXF9	*
	36"	2EKN6	*	2EKP9	*
Add-On					
96"	18"	3NUY4		3NUY8	*
	24"	1LXH1		1LXG1	*
	36"	2EKN7		2EKR1	*

** NSF Certified.*

edsal

16-Ga. Bulk Storage Racks

- 3 shelf levels
- Silver powder-coated finish
- Galvanized wire decking
- Adjustable in 3" increments
- 1500-lb. beam capacity

Convenient racks provide easy access from the front or rear and work great in double-entry aisleways. Ideal for use in the foodservice industry. Units feature a welded foot plate for floor mounting.

Overall Depth	Particle Board Decking Item No.		Galvanized Wire Decking Item No.	
Additional Shelf Levels				
60"W				
18"	2EKL8		2EKP2	*
24"	2EKN2		2EKP5	*
36"	3NUY9		3NUZ2	*
72"W				
18"	1LXG5		1LXF5	*
24"	1LXG8		1LXF8	*
36"	2EKN5		2EKP8	*
96"W				
18"	3NUZ1		3NUZ3	*
24"	1LXH2		1LXG2	*
36"	2EKN8		2EKR2	*

Find additional Storage Rack Decking information on page 1231.

Overall Height	Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Galvanized Wire Decking Item No.
48"W Racks, 2250-lb. Shelf Capacity*				
Starter				
84"	24"	13D112	13D198	13D249
	36"	13D114	13D201	13D251
	48"	13D116	13D203	13D253
60"	24"	13D110	13D196	13D247
Add-On				
84"	24"	13D113	13D199	13D250
	36"	13D115	13D202	13D252
	48"	13D117	13D204	13D254
60"	24"	13D111	13D197	13D248
48"W Racks, 2500-lb. Shelf Capacity*				
Starter				
84"	24"	13C182	13D190	13D241
	36"	13C184	13D192	13D243
	48"	13D108	13D194	13D245
Add-On				
84"	24"	13C183	13D191	13D242
	36"	13C185	13D193	13D244
	48"	13D109	13D195	13D246
72"W Racks, 1750-lb. Shelf Capacity*				
Starter				
84"	24"	13D130	13D217	13D267
	36"	13D132	13D219	13D269
	48"	13D134	13D221	13D271
60"	24"	13D124	13D211	13D261
	36"	13D126	13D213	13D263
	48"	13D128	13D215	13D265
Add-On				
84"	24"	13D131	13D218	13D268
	36"	13D133	13D220	13D270
	48"	13D135	13D222	13D272
60"	24"	13D125	13D212	13D262
	36"	13D127	13D214	13D264
	48"	13D129	13D216	13D266
72"W Racks, 2000-lb. Shelf Capacity*				
Starter				
84"	24"	13D118	13D205	13D255
	36"	13D120	13D207	13D257
	48"	13D122	13D209	13D259
Add-On				
84"	24"	13D119	13D206	13D256
	36"	13D121	13D208	13D258
	48"	13D123	13D210	13D260
96"W Racks, 1250-lb. Shelf Capacity*				
Starter				
84"	24"	13D148	13D235	13D285
	36"	13D150	13D237	13D287
	48"	13D152	13D239	13D289
60"	24"	13D142	13D229	13D279
	36"	13D144	13D231	13D281
	48"	13D146	13D233	13D283
Add-On				
84"	24"	13D149	13D236	13D286
	36"	13D151	13D238	13D288
	48"	13D153	13D240	13D290
60"	24"	13D143	13D230	13D280
	36"	13D145	13D232	13D282
	48"	13D147	13D234	13D284
96"W Racks, 1600-lb. Shelf Capacity*				
Starter				
84"	24"	13D136	13D223	13D273
	36"	13D138	13D225	13D275
	48"	13D140	13D227	13D277
Add-On				
84"	24"	13D137	13D224	13D274
	36"	13D139	13D226	13D276
	48"	13D141	13D228	13D278



Starter
- 4 angle posts
- 3 shelf levels



Add-On
- 2 T-posts
- 3 shelf levels

14-Ga. Boltless Storage Racks

edsal

- 3 shelf levels
- Gray baked enamel finish
- Shelf levels adjust in 1½" increments

Racks have a double rivet beam design, which provides unobstructed access for 4 sides and allows faster assembly. Designed for storage of medium to large bulky items. Start a shelving system with starter units; complete the system with add-on units as required. Add additional shelf levels as needed. Racks include center supports: 1 per shelf level on 48"W beams, 2 per shelf level on 72"W beams, and 3 per shelf level on 96"W beams.

Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Steel Wire Decking Item No.
Additional Shelf Levels			
48"W Racks, 2500-lb. Shelf Capacity*			
24"	13D154	13D172	13D291
36"	13D155	13D173	13D292
48"	13D156	13D174	13D293
48"W Racks, 2250-lb. Shelf Capacity*			
24"	13D157	13D175	13D294
36"	13D158	13D176	13D295
48"	13D159	13D177	13D296
72"W Racks, 2000-lb. Shelf Capacity*			
24"	13D160	13D178	13D297
36"	13D161	13D179	13D298
48"	13D162	13D180	13D299
72"W Racks, 1750-lb. Shelf Capacity*			
24"	13D163	13D181	13D301
36"	13D164	13D182	13D302
48"	13D165	13D183	13D303
96"W Racks, 1600-lb. Shelf Capacity*			
24"	13D166	13D184	13D304
36"	13D167	13D185	13D305
48"	13D168	13D186	13D306
96"W Racks, 1250-lb. Shelf Capacity*			
24"	13D169	13D187	13D307
36"	13D170	13D188	13D308
48"	13D171	13D189	13D309

**** Shelves handle capacity shown. However, based on upright strength, individual units should not exceed 8000 lb.***

Overall Height	Overall Depth	No Decking Item No.	Particle Board Decking Item No.	Steel Decking Item No.
60"W Racks, 1300-lb. Shelf Capacity				
Starter				
84"	24"	3HA73	3GY80	3GY88
	36"	3HA74	3GY81	3GY89
	48"	3HA75	3GY82	3GY90
Add-On				
84"	24"	3GY97	3HA16	3HA25
	36"	3GY98	3HA17	3HA26
	48"	3GY99	3HA18	3HA27
72"W Racks, 1000-lb. Shelf Capacity				
Starter				
84"	24"	3HA61	3GY83	3GY91
	36"	3GY75	3GY84	3GY92
	48"	3GY76	1PP39	3GY93
Add-On				
84"	24"	3HA10	3HA19	3HA28
	36"	3HA11	3HA20	3HA29
	48"	3HA12	3HA21	3HA30
96"W Racks, 800-lb. Shelf Capacity				
Starter				
84"	24"	3GY77	3GY85	3GY94
	36"	3GY78	3GY86	3GY95
	48"	3GY79	3GY87	3GY96
Add-On				
84"	24"	3HA13	3HA22	3HA31
	36"	3HA14	3HA23	3HA32
	48"	3HA15	3HA24	3HA33

16-Ga. Boltless Storage Racks

edsal ULTRA RACK

- 3 shelf levels
- Gray baked-enamel finish
- Adjustable in 1½" increments

Z-style beam locks into keyhole slots. Decking rests on a recessed ledge for a flush fit and larger height shelf opening. Store items too large for standard shelving.

Overall Depth	No Decking Item No.	Steel Decking Item No.	Particle Board Decking Item No.
Additional Shelf Levels			
60"W, 1300-lb. Shelf Capacity			
24"	3HA34	3HA52	3HA43
36"	3HA35	3HA53	3HA44
48"	3HA36	3HA54	3HA45
72"W, 1000-lb. Shelf Capacity			
24"	3HA37	3HA55	3HA46
36"	3HA38	3HA56	3HA47
48"	3HA39	3HA57	3HA48
96"W, 800-lb. Shelf Capacity			
24"	3HA40	3HA58	3HA49
36"	3HA41	3HA59	3HA50
48"	3HA42	—	3HA51



Starter
- 4 angle posts
- 3 shelf levels



Add-On
- 2 T-posts
- 3 shelf levels



Starter
- 4 angle posts
- 5 shelf levels



Add-On
- 2 T-posts
- 3 shelf levels

14-Gauge Boltless Storage Racks

tennsco Storage Made Easy

- 3 shelf levels adjust in 1½" increments
- Gray electro-coat finish

Double rivet connections provide strength and stability and boltless design allows easy installation with just a mallet. No cross bracing is required which provides easy access to all four sides of unit.

Wire Decking—4-ga. wire in a 2" x 4" grid.

Particleboard Decking—⅝" thick for a smooth, durable surface.

Overall Height	Overall Depth	No Decking Item No.	Steel Wire Decking Item No.	Particle Board Decking Item No.
48⅝"W Racks, 2500-lb. Beam Capacity				
Starter				
84"	24⅝"	36K216	36K326	36K282
84"	36⅝"	36K218	36K328	36K284
84"	48⅝"	36K220	36K330	36K285
48⅝"W Racks, 2250-lb. Beam Capacity				
60"	24⅝"	36K222	36K332	36K287
84"	24⅝"	36K224	36K334	36K289
84"	36⅝"	36K226	36K336	36K291
84"	48⅝"	36K228	36K338	36K293
49"W Racks, 2500-lb. Beam Capacity				
Add-On				
84"	24⅝"	36K217	36K327	36K283
84"	36⅝"	36K219	36K329	44P213
84"	48⅝"	36K221	36K331	36K286
49"W Racks, 2250-lb. Beam Capacity				
60"	24⅝"	36K223	36K333	36K288
84"	24⅝"	36K225	36K335	36K290
84"	36⅝"	36K227	36K337	36K292
84"	48⅝"	36K229	36K339	36K294
72⅝"W Racks, 2000-lb. Beam Capacity				
Starter				
84"	24⅝"	36K230	36K340	36K295
84"	36⅝"	36K232	36K342	36K297
84"	48⅝"	36K234	36K344	36K299
72⅝"W Racks, 1750-lb. Beam Capacity				
60"	24⅝"	36K236	36K346	36K302
60"	36⅝"	36K238	36K348	36K304
60"	48⅝"	36K240	36K350	36K306
84"	24⅝"	36K242	36K352	36K308
84"	36⅝"	36K244	36K354	36K310
84"	48⅝"	36K246	36K356	36K312
73"W Racks, 2000-lb. Beam Capacity				
Add-On				
84"	24⅝"	36K231	36K341	36K296
84"	36⅝"	36K233	36K343	36K298
84"	48⅝"	36K235	36K345	36K301
73"W Racks, 1750-lb. Beam Capacity				
60"	24⅝"	36K237	36K347	36K303
60"	36⅝"	36K239	36K349	36K305
60"	48⅝"	36K241	36K351	36K307
84"	24⅝"	36K243	36K353	36K309
84"	36⅝"	36K245	36K355	36K311
84"	48⅝"	36K247	36K357	36K313
96⅝"W Racks, 1600-lb. Beam Capacity				
Starter				
84"	24⅝"	36K248	36K358	36K314
84"	36⅝"	36K250	36K360	36K316
84"	48⅝"	36K252	36K362	—
96⅝"W Racks, 1250-lb. Beam Capacity				
60"	24⅝"	36K256	36K364	36K318
60"	36⅝"	36K258	36K366	36K320
60"	48⅝"	36K254	36K368	—
84"	24⅝"	36K260	36K370	36K322
84"	36⅝"	36K262	36K372	36K324
84"	48⅝"	36K264	36K374	—
97"W Racks, 1600-lb. Beam Capacity				
Add-On				
84"	24⅝"	36K249	36K359	36K315
84"	36⅝"	36K251	36K361	36K317
84"	48⅝"	36K253	36K363	—
97"W Racks, 1250-lb. Beam Capacity				
60"	24⅝"	36K255	36K365	36K319
60"	36⅝"	36K257	36K367	36K321
60"	48⅝"	36K259	36K369	—
84"	24⅝"	36K261	36K371	36K323
84"	36⅝"	36K263	36K373	36K325
84"	48⅝"	36K265	36K375	—

Overall Width	Overall Depth	No Decking Item No.	Steel Wire Decking Item No.	Particle Board Decking Item No.
Additional Shelf Levels				
2500-lb. Beam Capacity, Heavy-Duty				
48"	24"	4UZ34	36K376	36K266
48"	36"	4UZ35	36K377	36K267
48"	48"	4UZ36	36K378	36K268



Particleboard



Galvanized Wire



Ribbed Steel

Decking for Bulk and Boltless Storage Racks

edsal NashvilleWire PRODUCTS

Easy to install; decking simply drops into place on rack. Bulk storage racks, boltless racks, and add-ons are sold separately on pages 1231 and 1233.

Edsal® Particleboard—⅝", medium-density, industrial-grade particleboard provides a solid, sturdy shelf for general storage. 96"W ships in two 48"W pieces.

Nashville Wire® Galvanized Wire—Open 2" x 4" wire-mesh design allows a clear view of inventory, prevents accumulation of dirt, oil, and debris, and maximizes the efficiency of sprinkler systems. Galvanized steel construction resists rust and corrosion.

Edsal® 20-Ga. Ribbed Steel—Provides the strength and rigidity needed for heavy load storage. Items slide on and off the shelf easily. Gray powder-coat finish. Ships in 12"W pieces.

Overall Width	Overall Depth	PARTICLE BOARD Item No.	GALVANIZED STEEL WIRE Item No.	RIBBED STEEL Item No.
48"	24"	8ZD17	3VH73 *	12T046
	36"	12T035	3VH75 *	12T047
	48"	12T036	3VH77 *	12T048
60"	24"	12T037	4VP72	12T049
	36"	12T038	4VP73	12T050
	48"	12T039	4VP74	12T051
72"	24"	12T040	3VH74	12T052
	36"	12T041	3VH76	12T053
	48"	12T042	3VH78	12T054
96"	24"	12T043	—	12T055
	36"	12T044	—	12T056
	48"	12T045	—	12T057

** Order two 48"W wire decking units to complete one 96"W rack shelf level.*

14-Gauge Boltless Shelving

tennsco Storage Made Easy

- 5 shelf levels adjust in 1½" increments
- Height: 84"
- Gray electro-coat finish
- Shipped unassembled
- More sizes are available, see Grainger.com®

Double rivet connections provide strength and stability. Boltless design allows easy installation using just a mallet. Uses no cross bracing for easy access to all sides of shelving.

MEDIUM PROFILE
2" tall supports for superior load capacities.

LOW PROFILE
Features 1⅛" tall supports.

PARTICLEBOARD DECKING
⅝" thick for a smooth, durable surface.





Overall Width	Overall Depth	NO DECKING Item No.	PARTICLEBOARD DECKING Item No.
500-lb. Beam Capacity, Low Profile			
Starter			
48⅝"	12⅝"	36K412	36K436
48⅝"	18⅝"	36K414	36K438
48⅝"	24⅝"	36K416	36K440
Add-On			
49"	12⅝"	36K413	36K437
49"	18⅝"	36K415	36K439
49"	24⅝"	36K417	36K441
600-lb. Beam Capacity, Low Profile			
Starter			
36⅝"	12⅝"	36K401	36K430
36⅝"	18⅝"	36K408	36K432
36⅝"	24⅝"	36K410	36K434
Add-On			
37"	12⅝"	36K407	36K431
37"	18⅝"	36K409	36K433
37"	24⅝"	36K411	36K435

Overall Width	Overall Depth	NO DECKING Item No.	PARTICLEBOARD DECKING Item No.
850-lb. Beam Capacity, Medium Profile			
Starter			
48⅝"	12⅝"	44P903	36K423
48⅝"	18⅝"	36K403	36K426
48⅝"	24⅝"	36K405	36K428
Add-On			
49"	12⅝"	36K402	36K425
49"	18⅝"	36K404	36K427
49"	24⅝"	36K406	36K429
1000-lb. Beam Capacity, Medium Profile			
Starter			
36⅝"	12⅝"	36K394	36K418
36⅝"	18⅝"	36K396	36K420
36⅝"	24⅝"	36K398	36K421
Add-On			
37"	12⅝"	36K395	36K419
37"	18⅝"	36K397	36K424
37"	24⅝"	36K399	36K422

Overall Width	Overall Depth	NO DECKING Item No.	PARTICLEBOARD DECKING Item No.
Additional Shelf Levels			
1000-lb. Beam Capacity, Medium Profile			
36"	12"	4UZ13	44R114
36"	18"	4UZ14	44R116
36"	24"	4UZ15	44R117
850-lb. Beam Capacity, Medium Profile			
48"	12"	4UZ17	44R126
48"	18"	4UZ18	44R128
48"	24"	4UZ19	44R129
600-lb. Beam Capacity, Low-Profile			
36"	12"	4TW05	44P851
36"	18"	4TW05	44P853
36"	24"	4TW05	44P854
500-lb. Beam Capacity, Low-Profile			
48"	12"	4TW06	44P863
48"	18"	4TW06	44P865
48"	24"	4TW06	44P866

16-Gauge Boltless Shelving

edsal

- 5 shelf levels adjust in 1½" increments
- Height: 84"
- Gray enamel finish
- Shipped unassembled

Double rivet connection on all shelf supports provides strength and unit rigidity. Easy to assemble and reconfigure; no hardware needed.

Low Profile—1" tall supports are located on all four sides of the top, middle, and bottom shelves.

Medium Profile—Feature 2¾" tall supports on all four sides for superior load capacities.

Extra Shelf Level—Shelving without decking offers flexibility of installing alternative decking types.

Particleboard Decking—Offers a smooth and durable surface in a complete, ready-to-use unit.





Overall Width	Overall Depth	NO DECKING Item No.	PARTICLEBOARD DECKING Item No.
500-lb. Beam Capacity, Low Profile			
Starter			
48"	12"	10X258	10X282
48"	18"	10X260	10X284
48"	24"	10X262	10X286
Add-On			
48"	12"	10X259	10X283
48"	18"	10X261	10X285
48"	24"	10X263	10X287
600-lb. Beam Capacity, Low Profile			
Starter			
36"	12"	10X252	10X276
36"	18"	10X254	10X278
36"	24"	10X256	10X280
Add-On			
36"	12"	10X253	10X277
36"	18"	10X255	10X279
36"	24"	10X257	10X281

Overall Width	Overall Depth	NO DECKING Item No.	PARTICLEBOARD DECKING Item No.
850-lb. Beam Capacity, Medium Profile			
Starter			
48"	12"	10X246	10X270
48"	18"	10X248	10X272
48"	24"	10X250	10X274
Add-On			
48"	12"	10X247	10X271
48"	18"	10X249	10X273
48"	24"	10X251	10X275
1000-lb. Beam Capacity, Medium Profile			
Starter			
36"	12"	11M965	10X264
36"	18"	10X242	10X266
36"	24"	10X244	10X268
Add-On			
36"	12"	10X241	10X265
36"	18"	10X243	10X267
36"	24"	10X245	10X269

Overall Width	Overall Depth	Item No.
Particleboard Decking		
36"	12"	10X296
36"	18"	10X297
36"	24"	10Z408
48"	12"	10Z409
48"	18"	10Z410
48"	24"	10Z411
Overall Width	**Overall Depth**	**Item No.**
Extra Shelf Levels		
1000-lb. Beam Capacity, Medium Profile		
36"	12"	10X288
36"	18"	10X289
36"	24"	10X290
850-lb. Beam Capacity, Medium Profile		
48"	12"	10X291
48"	18"	10X292
48"	24"	10X293
600-lb. Beam Capacity, Low Profile		
36"	24"	10X294
500-lb. Beam Capacity, Low Profile		
48"	24"	10X295



Starter
- 4 angle posts
- 6 side-to-side beams
- 6 front-to-back beams
- 3 center supports
- Decking for 3 levels (if ordered with decking)

Add-On
- 2 tee posts
- 6 side-to-side beams
- 6 front-to-back beams
- 3 center supports
- Decking for 3 levels (if ordered with decking)



14-ga. Heavy-Duty Boltless Shelving

Hallowell

- 3 shelf levels adjustable in 1½" increments
- Double rivet connection on all shelf supports
- All shelves center supported for maximum capacity
- Black powder-coated finish
- 84"H
- Shelf capacity based upon decking selected; no deck units based upon beam capacity

Ez Deck steel decking is 22-ga. galvanized sheet steel formed into 6" deep channel parks. Multiple planks are used to meet unit depth. Particleboard decking is ⅝" industrial grade type 1-M-2. Both decks must be center supported and cannot be used on single rivet units.

Overall Depth	NO DECK* Item No.	NO DECK* Shelf Cap.	PARTICLEBOARD Item No.	PARTICLEBOARD Shelf Cap.	STEEL WIRE DECK Item No.	STEEL WIRE DECK Shelf Cap.	STEEL EZ DECK Item No.	STEEL EZ DECK Shelf Cap.
48" Wide Racks								
Starter								
18"	**14L083**	1400 lb.	**14L144**	770 lb.	**14C690**	900 lb.	**14L265**	770 lb.
24"	**14L085**	1400 lb.	**14L146**	700 lb.	**14C692**	700 lb.	**14L267**	700 lb.
30"	**14L087**	1310 lb.	**14L148**	705 lb.	**14C694**	550 lb.	**14L269**	705 lb.
36"	**14L089**	1220 lb.	**14L150**	755 lb.	**14C696**	500 lb.	**14L271**	755 lb.
48"	**14L091**	1125 lb.	**14L152**	920 lb.	**14C698**	500 lb.	**14L273**	920 lb.
Add On								
18"	**14L084**	1400 lb.	**14L145**	770 lb.	**14C691**	900 lb.	**14L266**	770 lb.
24"	**14L086**	1400 lb.	**14L147**	700 lb.	**14C693**	700 lb.	**14L268**	700 lb.
30"	**14L088**	1310 lb.	**14L149**	705 lb.	**14C695**	550 lb.	**14L270**	705 lb.
36"	**14L090**	1220 lb.	**14L151**	755 lb.	**14C697**	500 lb.	**14L272**	755 lb.
48"	**14L092**	1125 lb.	**14L153**	920 lb.	**14C699**	500 lb.	**14L274**	920 lb.
60" Wide Racks								
Starter								
18"	**14L093**	1200 lb.	**14L154**	835 lb.	**14C701**	1800 lb.	**14C640**	835 lb.
24"	**14L095**	1200 lb.	**14L156**	700 lb.	**14C703**	1400 lb.	**14C642**	700 lb.
30"	**14L097**	1200 lb.	**14L158**	650 lb.	**14C705**	1000 lb.	**14C644**	650 lb.
36"	**14L099**	1200 lb.	**14L160**	665 lb.	**14C707**	1000 lb.	**14C646**	665 lb.
48"	**14L102**	1200 lb.	**14L162**	750 lb.	**14C709**	1000 lb.	**14C648**	750 lb.
Add On								
18"	**14L094**	1200 lb.	**14L155**	835 lb.	**14C702**	1800 lb.	**14C641**	835 lb.
24"	**14L096**	1200 lb.	**14L157**	700 lb.	**14C704**	1400 lb.	**14C643**	700 lb.
30"	**14L098**	1200 lb.	**14L159**	650 lb.	**14C706**	1000 lb.	**14C645**	650 lb.
36"	**14L101**	1200 lb.	**14L161**	665 lb.	**14C708**	1000 lb.	**14C647**	665 lb.
48"	**14L103**	1200 lb.	**14L163**	750 lb.	**14C710**	1000 lb.	**14C649**	750 lb.
72" Wide Racks								
Starter								
18"	**14L104**	1000 lb.	**14L164**	1000 lb.	**14C711**	1000 lb.	**14C650**	1000 lb.
24"	**14L106**	1000 lb.	**14L166**	770 lb.	**14C713**	1000 lb.	**14C652**	770 lb.
30"	**14L108**	1000 lb.	**14L168**	680 lb.	**14C715**	1000 lb.	**14C654**	680 lb.
36"	**14L110**	1000 lb.	**14L170**	655 lb.	**14C717**	1000 lb.	**14C656**	655 lb.
48"	**14L112**	1000 lb.	**14L172**	685 lb.	**14C719**	1000 lb.	**14C658**	685 lb.
Add On								
18"	**14L105**	1000 lb.	**14L165**	1000 lb.	**14C712**	1000 lb.	**14C651**	1000 lb.
24"	**14L107**	1000 lb.	**14L167**	770 lb.	**14C714**	1000 lb.	**14C653**	770 lb.
30"	**14L109**	1000 lb.	**14L169**	680 lb.	**14C716**	1000 lb.	**14C655**	680 lb.
36"	**14L111**	1000 lb.	**14L171**	655 lb.	**14C718**	1000 lb.	**14C657**	655 lb.
48"	**14L113**	1000 lb.	**14L173**	685 lb.	**14C720**	1000 lb.	**14C659**	685 lb.
96" Wide Racks								
Starter								
18"	**14L114**	620 lb.	**14L174**	620 lb.	**14C721**	620 lb.	**14C660**	620 lb.
24"	**14L116**	620 lb.	**14L176**	620 lb.	**14C723**	620 lb.	**14C662**	620 lb.
30"	**14L118**	620 lb.	**14L178**	620 lb.	**14C725**	620 lb.	**14C664**	620 lb.
36"	**14L120**	620 lb.	**14L180**	620 lb.	**14C727**	620 lb.	**14C666**	620 lb.
48"	**14L122**	620 lb.	**14L182**	620 lb.	**14C729**	620 lb.	**14C668**	620 lb.
Add On								
18"	**14L115**	620 lb.	**14L175**	620 lb.	**14C722**	620 lb.	**14C661**	620 lb.
24"	**14L117**	620 lb.	**14L177**	620 lb.	**14C724**	620 lb.	**14C663**	620 lb.
30"	**14L119**	620 lb.	**14L179**	620 lb.	**14C726**	620 lb.	**14C665**	620 lb.
36"	**14L121**	620 lb.	**14L181**	620 lb.	**14C728**	620 lb.	**14C667**	620 lb.
48"	**14L123**	620 lb.	**14L183**	620 lb.	**14C730**	620 lb.	**14C669**	620 lb.
Additional Shelf Levels								
48" Wide								
18"	**14L124**	1400 lb.	**14L184**	770 lb.	**14C731**	900 lb.	**14C670**	770 lb.
24"	**14L125**	1400 lb.	**14L185**	700 lb.	**14C732**	700 lb.	**14C671**	700 lb.
30"	**14L126**	1310 lb.	**14L186**	705 lb.	**14C733**	550 lb.	**14C672**	705 lb.
36"	**14L127**	1220 lb.	**14L187**	755 lb.	**14C734**	500 lb.	**14C673**	755 lb.
48"	**14L128**	1125 lb.	**14L188**	920 lb.	**14C735**	500 lb.	**14C674**	920 lb.
60" Wide								
18"	**14L129**	1200 lb.	**14L189**	835 lb.	**14C736**	1800 lb.	**14C675**	835 lb.
24"	**14L130**	1200 lb.	**14L190**	700 lb.	**14C737**	1400 lb.	**14C676**	700 lb.
30"	**14L131**	1200 lb.	**14L191**	650 lb.	**14C738**	1000 lb.	**14C677**	650 lb.
36"	**14L132**	1200 lb.	**14L192**	665 lb.	**14C739**	1000 lb.	**14C678**	665 lb.
48"	**14L133**	1200 lb.	**14L193**	750 lb.	**14C740**	1000 lb.	**14C679**	750 lb.
72" Wide								
18"	**14L134**	1000 lb.	**14L194**	1000 lb.	**14C741**	1000 lb.	**14C680**	1000 lb.
24"	**14L135**	1000 lb.	**14L195**	770 lb.	**14C742**	1000 lb.	**14C681**	770 lb.
30"	**14L136**	1000 lb.	**14L196**	680 lb.	**14C743**	1000 lb.	**14C682**	680 lb.
36"	**14L137**	1000 lb.	**14L197**	655 lb.	**14C744**	1000 lb.	**14C683**	655 lb.
48"	**14L138**	1000 lb.	**14L198**	685 lb.	**14C745**	1000 lb.	**14C684**	685 lb.
96" Wide								
18"	**14L139**	620 lb.	**14L199**	620 lb.	**14C746**	620 lb.	**14C685**	620 lb.
24"	**14L140**	620 lb.	**14L201**	620 lb.	**14C747**	620 lb.	**14C686**	620 lb.
30"	**14L141**	620 lb.	**14L202**	620 lb.	**14C748**	620 lb.	**14C687**	620 lb.
36"	**14L142**	620 lb.	**14L203**	620 lb.	**14C749**	620 lb.	**14C688**	620 lb.
48"	**14L143**	620 lb.	**14L204**	620 lb.	**14C750**	620 lb.	**14C689**	620 lb.

** No Deck Shelf Cap. based upon beam capacity.*

tennsco Storage Made Easy

High-Capacity Boltless Shelving



- Shelves adjust in 1½" increments
- Gray baked enamel finish
- 5 shelf levels

Easy to assemble with tapered keyhole slots and snap-in rivet design; no additional hardware needed. 16-ga. steel shelves and 14-ga. support framework ideal for heavy materials. Braceless construction allows easy access from all sides; smooth steel surface makes placing and moving items easy.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	Item No.
36"	18"	72"	4000 lb.	8CJK3
	18"	84"	4000 lb.	9NUN4
	24"	72"	4000 lb.	9MEZ3
	24"	84"	4000 lb.	9CV93
48"	18"	72"	4000 lb.	8PHA5
	18"	84"	4000 lb.	8CHM7
	18"	96"	4000 lb.	9PRP3
	24"	72"	4000 lb.	9XA34
	24"	84"	4000 lb.	9DY21
60"	24"	72"	3250 lb.	9NUN3
	24"	84"	3250 lb.	8CHM8
72"	24"	72"	2750 lb.	9HR23
	24"	84"	2750 lb.	8ZA32
	24"	96"	2750 lb.	8CJ74
	36"	84"	2750 lb.	9K587
96"	24"	84"	2600 lb.	9PRP2
	24"	96"	2600 lb.	9EZK0
	36"	96"	2600 lb.	9NV28

** Based on evenly distributed loads.*

edsal

High-Capacity Boltless Shelving

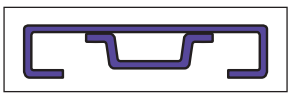


- Shelves adjust in 1½" increments
- 14-ga. steel posts
- 5 shelf levels, 16-ga. steel
- Gray powder-coated finish
- Shipped unassembled

Central cross-brace reinforcement ensures a flat, level shelf surface. Double-rivet design allows easy assembly with just a hammer or rubber mallet; no nuts or bolts required.

Overall Width	Overall Depth	Shelf Cap.*	84"H Item No.	96"H Item No.
36"	18"	4000 lb.	1PWT2	1PWU9
48"	18"	4000 lb.	1PWT4	1PWV2
	24"	4000 lb.	1PWT6	1PWV4
60"	24"	3250 lb.	1PWT8	1PWV6
72"	24"	2750 lb.	1PWU1	1PWV8
	36"	2750 lb.	1PWU3	1PWX1
96"	24"	2600 lb.	1PWU5	1PWX3
	36"	2600 lb.	1PWU7	1PWX5

** Based on evenly distributed loads.*



Each shelf has an additional channel-formed stiffener welded to the underside of the shelf to prevent flexing under heavy loads.



edsal

High-Capacity Reinforced Shelving

- Shelves adjust in 1" increments
- 14-ga. steel, gray powder-coated finish
- 5 shelf levels
- Nut and bolt assembly
- Holds up to 3000 lb. per shelf (based on evenly distributed loads)
- Shipped unassembled

Overall Width	Overall Depth	Overall Height	Item No.
36"	18"	84"	7E504
48"	18"	84"	7E510
48"	24"	84"	7E511
60"	24"	84"	7E513
72"	24"	84"	7E514



No. 30LV72



No. 30LV88

Hallowell

High-Capacity Shelving

- Shipped unassembled

GREENGUARD Gold Certified.

Boltless—Shelves adjust in 1½" increments and are center supported to ensure a strong level surface. Easy to assemble. Black powder-coated finish. 14-ga. uprights.

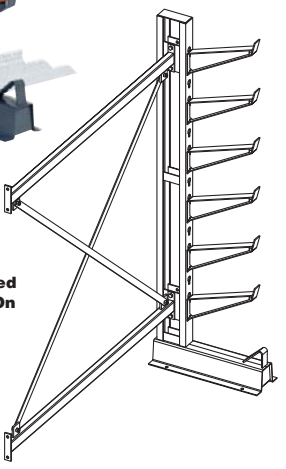
Bolted—Hat channel reinforced shelves adjust in 1" increments. Easy nut and bolt assembly with 13-ga. steel uprights. Gray powder-coated finish.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	Item No.
Boltless				
36"	18"	84"	2300 lb.	30LV72
	18"	96"	2300 lb.	30LV80
48"	18"	84"	2200 lb.	30LV73
	18"	96"	2200 lb.	30LV81
	24"	84"	2000 lb.	30LV74
	24"	96"	2000 lb.	30LV82
60"	24"	84"	2000 lb.	30LV75
	24"	96"	2000 lb.	30LV83
72"	24"	84"	1900 lb.	30LV76
	24"	96"	1900 lb.	30LV84
	36"	84"	1900 lb.	30LV77
	36"	96"	1900 lb.	30LV85
96"	24"	84"	1900 lb.	30LV78
	24"	96"	1900 lb.	30LV86
	36"	84"	1900 lb.	30LV79
	36"	96"	1900 lb.	30LV87
Bolted				
36"	18"	84"	2800 lb.	30LV88
48"	18"	84"	2600 lb.	30LV89
	24"	84"	2500 lb.	30LV90
60"	24"	84"	2300 lb.	30LV91
72"	24"	84"	2000 lb.	30LV92

** Based on evenly distributed loads.*



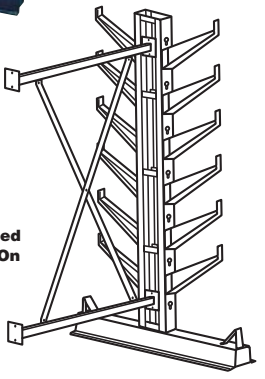
1-Sided Starter



1-Sided Add-On



2-Sided Starter



2-Sided Add-On

Cantilever Racks

- Arms are adjustable on 4" centers
- All units include a brace set
- Hardware included
- Shipped unassembled
- Gray powder-coated finish

Load up to 2000 lb. at 1 time with a lift truck, or deposit materials manually for quick, organized storage and retrieval. All-welded 3/16" 12-ga. steel arms with 18° slope; simply "button" into place for storage versatility. Columns are made with two 3" x 5" channels welded to 3/16" steel base. Brace sets are made from 1½" x 2½" tubing and heavy steel diagonals. Starter and Add-On Units offer the flexibility of having a two upright unit or a continuous row of shelving that can accommodate longer materials.

Quiktree® Series—Light-duty racks have a column capacity of 3500 lb. per column per side (not including base).

Steeltree® 08 Series—Medium-duty racks are ideal for storing light bar stock, tubing, lumber, or other lightweight materials.

Steeltree® 25 Series—Heavy-duty racks are great for storing large amounts of awkward or heavy stock in a compact area. Quick and easy assembly requires no special tools.

Button-On™—Feature a column capacity of 12000 lb. per column per side. Unique inclined arm with 18" slope is ideal for storing pipe, tubing, lumber, and bar stock. Buttons into position and adjusts on 4" centers.

Shelving Type	No. of Arms	Overall Height	Arm L	Cap. per Arm*	Cap. per Unit†	Cap.	Base Length	Center Brace Length	Item No.
Quiktree® Series									
1-Sided									
Starter	14	7 ft.	14"	500 lb.	3500 lb.	3500 lb.	21"	36"	**4UK90**
Starter	14	83¼"	14"	500 lb.	3500 lb.	3500 lb.	21"	72"	**4UK92**
Add-On	7	7 ft.	14"	500 lb.	3500 lb.	7000 lb.	21"	36"	**4UK91**
Add-On	7	7 ft.	14"	500 lb.	3500 lb.	7000 lb.	21"	72"	**4UK93**
2-Sided									
Starter	28	7 ft.	14"	500 lb.	7000 lb.	7000 lb.	34"	36"	**4UK86**
Starter	28	7 ft.	14"	500 lb.	7000 lb.	3500 lb.	34"	72"	**4UK88**
Add-On	14	7 ft.	14"	500 lb.	7000 lb.	3500 lb.	34"	36"	**4UK87**
Add-On	14	7 ft.	14"	500 lb.	7000 lb.	3500 lb.	34"	72"	**4UK89**
Steeltree® 08 Series									
1-Sided									
Starter	12	10 ft.	36"	430 lb.	5700 lb.	5160 lb.	46"	72"	**9RUP0**
Starter	8	8 ft.	24"	650 lb.	7500 lb.	5200 lb.	37"	48"	**9JZ59**
2-Sided									
Starter	24	10 ft.	36"	430 lb.	11,400 lb.	10,320 lb.	82"	72"	**9MGR0**
Steeltree® 25 Series									
1-Sided									
Starter	8	8 ft.	24"	2000 lb.	12,530 lb.	16,000 lb.	37"	72"	**3W588**
Starter	12	10 ft.	36"	1300 lb.	12,340 lb.	15,600 lb.	46"	72"	**1WG17**
Starter	16	12 ft.	48"	1000 lb.	9690 lb.	16,000 lb.	58"	72"	**3W589**
Add-On	4	8 ft.	24"	2000 lb.	12,530 lb.	8000 lb.	37"	72"	**3W592**
Add-On	6	10 ft.	36"	1300 lb.	12,340 lb.	7800 lb.	49"	72"	**1WG16**
Add-On	8	12 ft.	48"	1000 lb.	8000 lb.	8000 lb.	58"	72"	**3W593**
2-Sided									
Starter	16	8 ft.	24"	2000 lb.	25,060 lb.	32,000 lb.	65"	72"	**3W590**
Starter	24	10 ft.	36"	1300 lb.	24,680 lb.	32,000 lb.	82"	72"	**1WG14**
Starter	32	12 ft.	48"	1000 lb.	19,380 lb.	32,000 lb.	106"	72"	**3W591**
Add-On	8	8 ft.	24"	2000 lb.	25,060 lb.	16,000 lb.	65"	72"	**3W594**
Add-On	12	10 ft.	36"	1300 lb.	24,680 lb.	16,000 lb.	82"	72"	**1WG13**
Add-On	16	12 ft.	48"	1000 lb.	19,380 lb.	16,000 lb.	106"	72"	**3W595**
Button-On™ Series									
1-Sided									
Starter	12	7 ft.	16"	1000 lb.	12,000 lb.	12,000 lb.	26½"	72"	**4UK77**
Starter	12	7 ft.	12"	1000 lb.	12,000 lb.	12,000 lb.	26½"	72"	**8N402**
Starter	12	7 ft.	16"	1000 lb.	12,000 lb.	12,000 lb.	72"	72"	**8ALG4**
Add-On	6	7 ft.	16"	1000 lb.	6000 lb.	6,000 lb.	26½"	72"	**4UK78**
2-Sided									
Starter	24	7 ft.	16"	1000 lb.	24,000 lb.	24,000 lb.	45"	72"	**4UK79**
Add-On	12	7 ft.	16"	1000 lb.	24,000 lb.	12,000 lb.	45"	72"	**4UK80**

Description	Overall Height	Overall Depth	Item No.
Steeltree® 25 Series Uprights & Components			
Uprights			
1-Sided	10 ft.	49"	**1CHW5**
1-Sided	12 ft.	49"	**1CHW9**
2-Sided	8 ft.	65"	**1CHX3**
2-Sided	8 ft.	82"	**1CHX4**
2-Sided	10 ft.	82"	**1CHX8**
Arm Components			
24"L	—	—	**1CJA4**
36"L	—	—	**1CJA6**
48"L	—	—	**1CJA8**
Center Brace Set			
8-ft. Steel Brace Sets	11"	1½"	**1CHY8**
Button-On™ Series Uprights & Components			
Uprights			
1-Sided	7 ft.	21"	**8TX57**
2-Sided	7 ft.	45"	**8NGV9**
Arm Component			
16"L	—	—	**9JA60**
Center Brace Set			
3-ft. Steel Brace Set	11"	1½"	**9JA43**

**Based on evenly distributed loads. Multiply by 2 for capacity per pair of arms.*
†Based on evenly distributed loads. Does not include base load.

GA GRAINGER APPROVED

14-ga. Steel Records Storage Racks

- Shelves adjust in 2" increments
- Gray powder-coat finish
- Particleboard decking included

Welded frames have reinforced construction with boltless steel beams that install easily without tools.



Starter
- 2 upright frames
- 3 shelf levels

Overall Height	Overall Depth	STARTER Item No.	ADD-ON Item No.
60" Wide Racks, 4000-lb. Shelf Capacity*			
72"	18"	1KAC4	1KAD1
72"	36"	1KAC5	1KAD2
72" Wide Racks, 3500-lb. Shelf Capacity*			
72"	18"	1KAC6	1KAD4
72"	36"	1KAC7	1KAD6
96" Wide Racks, 2800-lb. Shelf Capacity*			
72"	18"	1KAC8	1KAD8
72"	36"	1KAC9	1KAE1

** Based on evenly distributed loads.*

edsal

14-ga. Boltless Records Storage Racks

- Shelves adjust in 1½" increments
- Gray enamel finish

Width and depth of shelving matches letter-size archive box dimensions to maximize floor space. Double rivet shelf supports lock into upright posts without tools.



With Particleboard Decking

Without Decking— Enables deck selection for general storage use.

With Particleboard Decking—Sturdy 7/16" particleboard recesses into shelf support to maximize clear opening; ideal for general-purpose storage.

Overall Height	Overall Depth	No. of Shelves	WITHOUT DECKING Item No.	PARTICLEBOARD DECKING Item No.
42" Wide Racks, 900 lb. Shelf Capacity*				
60"	16 5/16"	3	13E036	13E044
60"	32 7/8"	3	13E037	13E045
84"	16 5/16"	4	13E038	13E046
84"	32 7/8"	4	13E039	13E047
69" Wide Racks, 650 lb. Shelf Capacity*				
60"	16 5/16"	3	13E040	13E048
60"	32 7/8"	3	13E041	13E049
84"	16 5/16"	4	13E042	13E050
84"	32 7/8"	4	13E043	13E051

** Based on evenly distributed loads.*

Freestanding Vertical Bar Rack

LITTLE GIANT

- Gray powder-coated finish
- 6000-lb. capacity

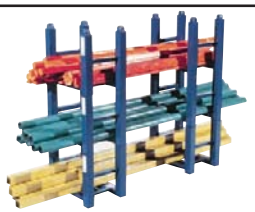
Easy to access and organize bar stock and tubing. Vertical storage requires less floor space. Includes security chain and hooks.



Overall Width	Overall Depth	Overall Height	Item No.
48"	24"	60"	20VA66

GA GRAINGER APPROVED

Modular Stacking Racks



6 Stacking Racks (3 Levels High) Shown

Sturdy, lightweight, and easy to handle; a highly flexible storage system for all types of materials. Feature heavy-duty, all-welded steel construction. No bolts, tools, or fittings required for setup or take-down.

Load Capacity	L	W	Inside Width	H	Item No.
2500 lb.	16"	12"	12"	13½"	4UK83
3700 lb.	19"	14"	15"	17"	4UK84
5600 lb.	22"	15"	18"	20½"	4UK85
7500 lb.	26"	16"	22"	23½"	1WG15

DURHAM MFG Est. 1922

Gas Cylinder Racks



4 Vertical No. 55PW85

- For 12"-dia. cylinders

Safely restrain and store gas cylinders in storage rooms. Feature steel tubing construction with a black powder-coated finish.

Cylinder Cap.	Overall Height	Overall Width	Overall Depth	Item No.
(1) Vertical	30"	16"	12"	55PW89
(2) Vertical	30"	16"	24"	55PW88
	30"	30"	12"	55PW86
(3) Vertical	30"	16"	36"	55PW87
	30"	44"	12"	55PW82
(4) Vertical	30"	30"	24"	55PW85
(6) Vertical	30"	30"	36"	55PW84
(8) Vertical	30"	30"	48"	55PW83

LITTLE GIANT

Heavy-Duty Welded Steel Shelving



No. 20VA68

Reinforced 12-ga. steel shelves have 2" x 2" x 3/16" corner angles with footpads and anchor holes. The bottom shelf has 3½" under clearance. 4-shelf models have 20¾" shelf clearance and 5-shelf models have 15" shelf clearance. Ships assembled.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	4-SHELF UNITS Item No.	5-SHELF UNITS Item No.
32"	18"	72"	2000 lb.	20VA68	20VA77
36"	24"	72"	2000 lb.	20VA69	20VA78
48"	24"	72"	2000 lb.	20VA70	20VA79
	30"	72"	2000 lb.	20VA72	20VA81
60"	24"	72"	2000 lb.	20VA71	20VA80
	30"	72"	2000 lb.	20VA73	20VA82
	36"	72"	2000 lb.	20VA75	20VA84
72"	30"	72"	2000 lb.	20VA74	20VA83
	36"	72"	2000 lb.	20VA76	20VA85

** Based on evenly distributed loads.*

Hallowell

Antimicrobial Industrial Shelving



Open Starter Unit



Closed Add-On Unit

- Shelves adjust on 1½" centers
- 22-ga. box-formed steel
- Light gray antimicrobial powder-coated finish

Finish inhibits the growth of stain and odor causing bacteria on the surface of the coating.

Overall Depth	Overall Height	8-SHELF UNITS Open Item No.	8-SHELF UNITS Closed Item No.	11-SHELF UNITS Open Item No.	11-SHELF UNITS Closed Item No.
36" Wide Racks, 500 lb. Shelf Capacity*					
Starter					
12"	87"	14C751	14C763	14C775	14C787
18"	87"	14C753	14C765	14C777	14P335
24"	87"	14C755	14C767	14C779	14P337
Add-On					
12"	87"	14C752	14C764	14C776	14C788
18"	87"	14C754	14C766	14C778	14P336
24"	87"	14C756	14C768	14C780	14P338
48" Wide Racks, 350 lb. Shelf Capacity*					
Starter					
24"	87"	14C761	14C773	14C785	14P343
Add-On					
24"	87"	14C762	14C774	14C786	14P344
48" Wide Racks, 375 lb. Shelf Capacity*					
Starter					
12"	87"	14C757	14C769	14C781	14P339
18"	87"	14C759	14C771	14C783	14P341
Add-On					
12"	87"	14C758	14C770	14C782	14P340
18"	87"	14C760	14C772	14C784	14P342

**Based on evenly distributed loads.*





GA GRAINGER APPROVED

Adjustable Reel Storage Racks

Axle position is adjustable in 2" increments to accommodate spools of different diameters on the same rack. Steel A-frame construction supports 2000 lb. per axle evenly distributed, for a max. of 6000 lb. per unit.

Overall Depth	Overall Width	Overall Height	Includes	STARTER UNIT, A-FRAME Item No.	ADD-ON UNIT, A-FRAME Item No.
36"	39"	97½"	(3) 2¼" O.D. Axles, 3 Pairs Axle Brackets	1XED5	1XED9
36"	51"	97½"		1XED7	1XEE2
36"	39"	121½"	(4) 2¼" O.D. Axles, 4 Pairs Axle Brackets	1XED4	1XED8
36"	51"	122⅞"		1XED6	1XEE1





GA GRAINGER APPROVED

Stacking Racks

Combine the load capabilities of pallet racks with the product protection of stacking posts. Removable posts allow racks to be stacked or stored in knock-down fashion, utilizing vertical and lateral storage space.

Load Capacity	Height	Item No.
Stack Rack Post Set of 4		
2000 lb.	36"	1CJD7
2000 lb.	42"	1CJD8
2000 lb.	48"	1CJD9
4000 lb.	36"	1CJC3
4000 lb.	42"	1CJC5
4000 lb.	48"	1CJC4

Load Capacity	L	W	Inside Width	BASE W/ WOOD DECK Item No.	OPEN BASE Item No.
Stack Rack Base					
2000 lb.	42"	60"	56½"	1CJD4	1CJC9
2000 lb.	48"	48"	44½"	1CJD5	1CJD1
2000 lb.	48"	60"	56½"	1CJD6	1CJD2
4000 lb.	42"	48"	43"	1CJB9	1CJB6
4000 lb.	42"	60"	55"	1CJC1	1CJB7
4000 lb.	48"	48"	43"	1CJC2	1CJB8
4000 lb.	48"	60"	55"	1CJC7	1CJC6





GA GRAINGER APPROVED

Sheet Racks

Blue powder-coated finish.

Vertical—Feature 4 storage bays, lag down holes, and sturdy welded steel construction.

Horizontal—Features 5 shelves with 9½" clearance between them. 4-sided access when using sheets 4 x 8 ft. or smaller.

Shelf Cap.	Overall Depth	Overall Width	Overall Height	Distance Between Shelves	Item No.
Vertical					
1500 lb.	36"	47⅜"	41¾"	6⅞"	3FY90
1500 lb.	84"	50"	44"	10"	3FY92
Horizontal					
2000 lb.	102¾"	54½"	48"	9½"	1BBY4







SK STEEL KING BUILT TO DELIVER

Stac-King® Portable Racks

Steel racks provide protection for loads during handling, stacking, and shipping. Versatile racks act as their own pallets, eliminating the need for wooden pallets. Racks with vertical posts can be stacked up to 6 high without load-on-load contact. Baked enamel finish.

Load Capacity	L	W	Inside Width	OPEN DECK Item No.	WOOD DECK Item No.
Stack Rack Bases					
4000 lb.	42"	48"	46"	46M179	46M180
4000 lb.	42"	60"	58"	46M181	46M182
4000 lb.	48"	48"	46"	46M183	46M184

Load Capacity	L	W	H	Item No.
Stack Rack Posts				
4000 lb.	2"	2"	36"	46M177
4000 lb.	2"	2"	48"	46M178



GA GRAINGER APPROVED

14-ga. Steel Tire Racks

Boltless—Made of roll-formed steel with rivet-lock connection system. Easy assembly without tools. Designed for automobile and light truck tires. No. 1KAD3 attaches to wall for 1-sided access.

- Gray baked-enamel finish
- Beams adjust in 1½" increments

Heavy-Duty—12-ga. steel beam connectors and 3 hooks for easy, tool-free installation. Designed for a variety of tires from automobile to tractor trailer tires. Available in starter and add-on units.

- Gray powder-coated finish
- Beams adjust in 2" increments

W	H	D	Tire Cap.	Shelf Cap.	Item No.
Boltless					
Single-Sided					
60"	84"	12"	24	1000 lb.	1KAD3
Double-Sided					
60"	84"	42"	42	1000 lb.	1KAD5
Heavy-Duty					
Starter					
60"	72"	18"	21	1500 lb.	1KAD7
72"	72"	18"	27	1500 lb.	1KAD9
96"	72"	18"	36	1500 lb.	1KAE2
Add-On					
60"	72"	18"	21	1500 lb.	1KAE3
72"	72"	18"	27	1500 lb.	1KAE4
96"	72"	18"	36	1500 lb.	1KAE5

OPEN UNITS
(6-Shelf Unit Shown)



Starter Unit
- 4 posts
- 87"H—3 braces
- 123"H—6 braces



Add-On Unit
- 2 posts
- 87"H—2 braces
- 123"H—4 braces

CLOSED UNITS
(8-Shelf Unit Shown)



Starter Unit
- 2 side panel assemblies
- 1 back panel assembly



Add-On Unit
- 1 side panel assembly
- 1 back panel assembly

Hallowell

High-Capacity H-Post Industrial Shelving

- Shelves adjust in 1½" increments
- Powder-coated finish

High-capacity H-posts allow use of full shelf width and are common between adjoining units to reduce cost, and assembly and installation time. Shelves are box-formed at front and back with triple-flanged sides for added strength. Included compression shelf clips add to overall unit capacity.

Open shelving includes sway braces and closed shelving includes 18-ga. side, and 24-ga. back panels for enhanced stability.

Overall Width	Overall Depth	Shelf Cap.*	Item No.
Additional Shelves, Pkg. of 5			
20-ga.			
36"	18"	800 lb.	4CPP1
36"	24"	800 lb.	4CPP2
48"	18"	450 lb.	4CPP3
48"	24"	500 lb.	4CPP4
18-ga.			
36"	18"	1200 lb.	4CPP5
36"	24"	1250 lb.	4CPP6
48"	18"	900 lb.	4CPP7
48"	24"	900 lb.	4CPP8

				5-SHELF UNITS		6-SHELF UNITS		8-SHELF UNITS	
Overall Width	Overall Depth	Overall Height	Shelf Cap.*	OPEN Item No.	CLOSED Item No.	OPEN Item No.	CLOSED Item No.	OPEN Item No.	CLOSED Item No.
20-ga. Shelving									
Starter									
36"	18"	87"	800 lb.	4GZL3	4GZP9	4GZL7	4GZR4	4GZN2	4GZR8
	18"	123"	800 lb.	4GZU6	4GZX3	4GZV1	4GZX7	4GZV5	4GZY2
	24"	87"	800 lb.	4GZL4	4GZR1	4GZL8	4GZR5	4GZN3	4GZR9
	24"	123"	800 lb.	4GZU7	4GZX4	4GZV2	4GZX8	4GZV6	4GZY3
48"	18"	87"	450 lb.	4GZN6	4GZT3	4GZP1	4GZT7	4GZP5	4GZU2
	18"	123"	450 lb.	4GZV9	4GZY6	4GZW4	4GZZ1	4GZW8	4GZZ5
	24"	87"	500 lb.	4GZN7	4GZT4	4GZP2	4GZT8	4GZP6	4GZU3
	24"	123"	500 lb.	4GZW1	4GZY7	4GZW5	4GZZ2	4GZW9	4GZZ6
Add-On									
36"	18"	87"	800 lb.	4GZL5	4GZR2	4GZL9	4GZR6	4GZN4	4GZT1
	18"	123"	800 lb.	4GZU8	4GZX5	4GZV3	4GZX9	4GZV7	4GZY4
	24"	87"	800 lb.	4GZL6	4GZR3	4GZN1	4GZR7	4GZN5	4GZT2
	24"	123"	800 lb.	4GZU9	4GZX6	4GZV4	4GZY1	4GZV8	4GZY5
48"	18"	87"	450 lb.	4GZN8	4GZT5	4GZP3	4GZT9	4GZP7	4GZU4
	18"	123"	450 lb.	4GZW2	4GZY8	4GZW6	4GZZ3	4GZX1	4GZZ7
	24"	87"	500 lb.	4GZN9	4GZT6	4GZP4	4GZU1	4GZP8	4GZU5
	24"	123"	500 lb.	4GZW3	4GZY9	4GZW7	4GZZ4	4GZX2	4GZZ8
18-ga. Shelving									
Starter									
36"	18"	87"	1200 lb.	4GZZ9	4HAD6	4HAA4	4HAE1	4HAA8	4HAE5
	18"	123"	1200 lb.	4HAH3	4HAK9	4HAH7	4HAL4	4HAJ2	4HAL8
	24"	87"	1250 lb.	4HAA1	4HAD7	4HAA5	4HAE2	4HAA9	4HAE6
	24"	123"	1250 lb.	4HAH4	4HAL1	4HAH8	4HAL5	4HAJ3	4HAL9
48"	18"	87"	900 lb.	4HAC3	4HAE9	4HAC7	4HAF4	4HAD2	4HAF8
	18"	123"	900 lb.	4HAJ6	4HAM3	4HAK1	4HAM7	4HAK5	4HAN2
	24"	87"	900 lb.	4HAC4	4HAF1	4HAC8	4HAF5	4HAD3	4HAF9
	24"	123"	900 lb.	4HAJ7	4HAM4	4HAK2	4HAM8	4HAK6	4HAN3
Add-On									
36"	18"	87"	1200 lb.	4HAA2	4HAD8	4HAA6	4HAE3	4HAC1	4HAE7
	18"	123"	1200 lb.	4HAH5	4HAL2	4HAH9	4HAL6	4HAJ4	4HAM1
	24"	87"	1250 lb.	4HAA3	4HAD9	4HAA7	4HAE4	4HAC2	4HAE8
	24"	123"	1250 lb.	4HAH6	4HAL3	4HAJ1	4HAL7	4HAJ5	4HAM2
48"	18"	87"	900 lb.	4HAC5	4HAF2	4HAC9	4HAF6	4HAD4	4HAH1
	18"	123"	900 lb.	4HAJ8	4HAM5	4HAK3	4HAM9	4HAK7	4HAN4
	24"	87"	900 lb.	4HAC6	4HAF3	4HAD1	4HAF7	4HAD5	4HAH2
	24"	123"	900 lb.	4HAJ9	4HAM6	4HAK4	4HAN1	4HAK8	4HAN5

** Based on evenly distributed loads.*

OPEN UNITS
(5-Shelf Unit Shown)

OPEN AND CLOSED UNITS
- Shelves as ordered

CLOSED UNITS
(5-Shelf Unit Shown)



Starter Unit
- 2 beaded posts
- 2 angle posts
- 3 braces
- 4 clips per shelf



Add-On Unit
- 1 beaded post
- 2 angle posts
- 2 braces
- 4 clips per shelf



Starter Unit
- 2 side panel assemblies
- 1 back panel assembly



Add-On Unit
- 1 side panel assembly
- 1 back panel assembly

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	5-SHELF UNITS OPEN Item No.	5-SHELF UNITS CLOSED Item No.	6-SHELF UNITS OPEN Item No.	6-SHELF UNITS CLOSED Item No.	8-SHELF UNITS OPEN Item No.	8-SHELF UNITS CLOSED Item No.
22-ga. Shelving									
Starter									
36"	12"	87"	500 lb.	1BFL8	1BLH9	1BGL2	1BLJ6	1BGL5	1BLK1
	18"	87"	500 lb.	1BFL9	1BLJ2	1BGL3	1BLJ8	1BGL6	1BLK2
	24"	87"	500 lb.	1BGL1	1BLJ4	1BGL4	1BLJ9	1BGL7	1BLK3
48"	12"	87"	375 lb.	1BGL8	1BLK4	1BHL2	1BLK8	1BHL5	1BLL5
	18"	87"	375 lb.	1BGL9	1BLK5	1BHL3	1BLL1	1BHL6	1BLL7
	24"	87"	350 lb.	1BHL1	1BLK6	1BHL4	1BLL3	1BHL7	1BLL9
Add-On									
36"	12"	87"	500 lb.	1BHL8	1BLN2	1BJL1	1BLN8	1BJL4	1BLP5
	18"	87"	500 lb.	1BHL9	1BLN4	1BJL2	1BLP1	1BJL5	1BLP7
	24"	87"	500 lb.	1BHV8	1BLN6	1BJL3	1BLP3	1BJL6	1BLP9
48"	12"	87"	375 lb.	1BJL7	1BLR2	1BKL1	1BLR7	1BKL4	1BLT1
	18"	87"	375 lb.	1BJL8	1BLR4	1BKL2	1BLR8	1BKL5	1BLT2
	24"	87"	350 lb.	1BJL9	1BLR6	1BKL3	1BLR9	1BKL6	1BLT3
Freestanding									
36"	12"	87"	500 lb.	39K739	39K793	39K745	39K799	39K751	39K806
	18"	87"	500 lb.	39K740	39K794	39K746	39K801	39K752	39K807
	24"	87"	500 lb.	39K741	39K795	39K747	39K802	39K753	39K808
48"	12"	87"	375 lb.	39K742	39K796	39K748	39K803	39K754	39K809
	18"	87"	375 lb.	39K743	39K797	39K749	39K804	39K755	39K810
	24"	87"	350 lb.	39K744	39K798	39K750	39K805	39K756	39K811
20-ga. Shelving									
Starter									
36"	18"	87"	800 lb.	1BKL8	1BLT5	1BLA2	1BLT8	1BLA5	1BLU2
	24"	87"	800 lb.	1BKL9	1BLT6	1BLA3	1BLT9	1BLA6	1BLU3
48"	12"	87"	400 lb.	1BLA7	1BLU4	1BLB1	1BLU7	1BLB4	1BLV1
	18"	87"	450 lb.	1BLA8	1BLU5	1BLB2	1BLU8	1BLB5	1BLV2
	24"	87"	500 lb.	1BLA9	1BLU6	1BLB3	1BLU9	1BLB6	1BLV3
36"	12"	87"	800 lb.	1BKL7	1BLT4	1BLA1	1BLT7	1BLA4	1BLU1
Add-On									
36"	12"	87"	800 lb.	1BLB7	1BLV4	1BLC1	1BLV7	1BLC4	1BLW1
	18"	87"	800 lb.	1BLB8	1BLV5	1BLC2	1BLV8	1BLC5	1BLW2
	24"	87"	800 lb.	1BLB9	1BLV6	1BLC3	1BLV9	1BLC6	1BLW3
48"	12"	87"	400 lb.	1BLC7	1BLW4	1BLD1	1BLW7	1BLD4	1BLX1
	18"	87"	450 lb.	1BLC8	1BLW5	1BLD2	1BLW8	1BLD5	1BLX2
	24"	87"	500 lb.	1BLC9	1BLW6	1BLD3	1BLW9	1BLD6	1BLX3
Freestanding									
36"	12"	87"	800 lb.	39K757	39K812	39K763	39K818	39K769	39K824
	18"	87"	800 lb.	39K758	39K813	39K764	39K819	39K770	39K825
	24"	87"	800 lb.	39K759	39K814	39K765	39K820	39K771	39K826
48"	12"	87"	400 lb.	39K760	39K815	39K766	39K821	39K772	39K827
	18"	87"	450 lb.	39K761	39K816	39K767	39K822	39K773	39K828
	24"	87"	500 lb.	39K762	39K817	39K768	39K823	39K774	39K829
18-ga. Shelving									
Starter									
36"	12"	87"	1100 lb.	1BLD7	1BLX4	1BLE1	1BLX7	1BLE4	1BLY1
	18"	87"	1200 lb.	1BLD8	1BLX5	1BLE2	1BLX8	1BLE5	1BLY2
	24"	87"	1250 lb.	1BLD9	1BLX6	1BLE3	1BLX9	1BLE6	1BLY3
48"	12"	87"	750 lb.	1BLE7	1BLY4	1BLF1	1BLY7	1BLF4	1BLZ1
	18"	87"	900 lb.	1BLE8	1BLY5	1BLF2	1BLY8	1BLF5	1BLZ2
	24"	87"	900 lb.	1BLE9	1BLY6	1BLF3	1BLY9	1BLF6	1BLZ3
Add-On									
36"	12"	87"	1100 lb.	1BLF7	1BLZ4	1BLG1	1BLZ7	1BLG4	1BML1
	18"	87"	1200 lb.	1BLF8	1BLZ5	1BLG2	1BLZ8	1BLG5	1BML2
	24"	87"	1250 lb.	1BLF9	1BLZ6	1BLG3	1BLZ9	1BLG6	1BML3
48"	12"	87"	750 lb.	1BLG7	1BML4	1BLH1	1BML7	1BLH4	1BNL1
	18"	87"	900 lb.	1BLG8	1BML5	1BLH2	1BML8	1BLH5	1BNL2
	24"	87"	900 lb.	1BLG9	1BML6	1BLH3	1BML9	1BLH7	1BNL3
Freestanding									
36"	12"	87"	1100 lb.	39K775	39K830	39K781	39K836	39K787	39K842
	18"	87"	1200 lb.	39K776	39K831	39K782	39K837	39K788	39K843
	24"	87"	1250 lb.	39K777	39K832	39K783	39K838	39K789	39K844
48"	12"	87"	750 lb.	39K778	39K833	39K784	39K839	39K790	39K845
	18"	87"	900 lb.	39K779	39K834	39K785	39K840	39K791	39K846
	24"	87"	900 lb.	39K780	39K835	39K786	39K841	39K792	39K847

** Based on evenly distributed loads.*

Hallowell

Industrial Shelving

- Shelves adjust in 1½" increments
- Gray powder-coated finish
- Shipped unassembled

Shelves are box-formed at front and rear, with triple-flanged sides and welded corners for maximum strength. Beaded front post allows use of full shelf width. Angle back posts bolt together when adding units; quick, easy assembly.

Freestanding Shelving Units—Ideal where a single unit is required, or where it may be necessary to change shelving configuration.

ACCESSORIES FOR CLOSED SHELVING

Vertical Shelf Dividers—Clip into shelves using nylon fasteners to provide additional organization.

Double Swinging Doors—Create cabinet-like storage. Include chrome-finish handle with built-in cylinder key lock for 3-pt. positive locking.

Closed Base Strips—Close the gap between floor and bottom shelf to prevent dirt and debris from accumulating under shelving.

Overall Width	Overall Depth	Item No.
Additional Shelves, Pkg. of 5		
22-ga.		
36"	12"	1BNL4
	18"	1BNL5
	24"	1BNL6
48"	12"	1BNL7
	18"	1BNL8
	24"	1BNL9
20-ga.		
36"	12"	1BPL1
	18"	1BPL2
	24"	1BPL3
48"	12"	1BPL4
	18"	1BPL5
	24"	1BPL6
18-ga.		
36"	12"	1BPL7
	18"	1BPL8
	24"	1BPL9
48"	12"	1BRL1
	18"	1BRL2
	24"	1BRL3

Overall Depth	Overall Height	Item No.
Vertical Shelf Dividers, Pkg. of 12		
12"	6"	1BRL4
12"	9"	1BRL5
12"	12"	1BRL6
18"	6"	1BRL7
18"	9"	1BRL8
18"	12"	1BRL9
24"	6"	1BTL1
24"	9"	1BTL2
24"	12"	1BTL3

Overall Width	Overall Height	Item No.
Double Swinging Doors		
36"	84"	1BTL4
Base Strip, Pkg. of 10		
36"	3"	1BTL6
48"	3"	1BTL7

GA GRAINGER APPROVED

Industrial Shelving

- Shelves adjust in 1" increments
- Gray powder-coated finish
- Shipped unassembled, hardware included
- Height: 85"

Tubular-welded, box-beam shelf construction is welded to shelves at front and rear on 3" centers, with lapped and welded corners. Each shelf clip provides a wedge-type compression grip on all corners.

Starter/Add-On—Select starter unit and add-on units as needed. 14-ga., common box-formed front posts on starter/add-on units provide full shelf width access and reduced assembly time.

Freestanding—Select a freestanding unit if add-on units are not needed in the future, or full shelf width access is not required.

Overall Width	Overall Depth	Shelf Cap.*	5-SHELF UNITS Open Item No.	5-SHELF UNITS Closed Item No.	6-SHELF UNITS Open Item No.	6-SHELF UNITS Closed Item No.	8-SHELF UNITS Open Item No.	8-SHELF UNITS Closed Item No.
Premier Shelving, 20-Gauge								
Starter								
36"	12"	1000 lb.	7E466	7E526	7E472	7E532	7E478	7E538
	18"	1050 lb.	7E467	7E527	7E473	7E533	7E479	7E539
	24"	1100 lb.	7E468	7E528	7E474	7E534	7E480	7E540
48"	12"	650 lb.	7E469	7E529	7E475	7E535	7E481	7E541
	18"	675 lb.	7E470	7E530	7E476	7E536	7E482	7E542
	24"	750 lb.	7E471	7E531	7E477	7E537	7E483	7E543
Add-On								
36"	12"	1000 lb.	7E484	7E544	7E490	7E550	7E496	7E556
	18"	1050 lb.	7E485	7E545	7E491	7E551	7E497	7E557
	24"	1100 lb.	7E486	7E546	7E492	7E552	7E498	7E558
48"	12"	650 lb.	7E487	7E547	7E493	7E553	7E499	7E559
	18"	675 lb.	7E488	7E548	7E494	7E554	7E500	7E560
	24"	750 lb.	7E489	7E549	7E495	7E555	7E501	7E561
Freestanding								
36"	12"	1000 lb.	7E448	7E502	7E454	7E509	7E460	7E520
	18"	1050 lb.	7E449	7E503	7E455	7E515	7E461	7E521
	24"	1100 lb.	7E450	7E505	7E456	7E516	7E462	7E522
48"	12"	650 lb.	7E451	7E506	7E457	7E517	7E463	7E523
	18"	675 lb.	7E452	7E507	7E458	7E518	7E464	7E524
	24"	750 lb.	7E453	7E508	7E459	7E519	7E465	7E525
UltraCap™ Shelving, 22-Gauge								
Starter								
36"	12"	750 lb.	7E356	7E412	7E362	7E418	7E368	7E424
	18"	750 lb.	7E357	7E413	7E363	7E419	7E369	7E425
	24"	750 lb.	7E358	7E414	7E364	7E420	7E370	7E426
48"	12"	500 lb.	7E359	7E415	7E365	7E421	7E371	7E427
	18"	500 lb.	7E360	7E416	7E366	7E422	7E372	7E428
	24"	500 lb.	7E361	7E417	7E367	7E423	7E373	7E429
Add-On								
36"	12"	750 lb.	7E374	7E430	7E380	7E436	7E387	7E442
	18"	750 lb.	7E375	7E431	7E382	7E437	7E388	7E443
	24"	750 lb.	7E376	7E432	7E383	7E438	7E389	7E444
48"	12"	500 lb.	7E377	7E433	7E384	7E439	7E390	7E445
	18"	500 lb.	7E378	7E434	7E385	7E440	7E391	7E446
	24"	500 lb.	7E379	7E435	7E386	7E441	7E392	7E447
Freestanding								
36"	12"	750 lb.	7E338	7E394	7E344	7E400	7E350	7E406
	18"	750 lb.	7E339	7E395	7E345	7E401	7E351	7E407
	24"	750 lb.	7E340	7E396	7E346	7E402	7E352	7E408
48"	12"	500 lb.	7E341	7E397	7E347	7E403	7E353	7E409
	18"	500 lb.	7E342	7E398	7E348	7E404	7E354	7E410
	24"	500 lb.	7E343	7E399	7E349	7E405	7E355	7E411

** Based on evenly distributed loads.*

Overall Width	Overall Depth	Item No.	Pkg. Qty.
Additional Shelf, Premier, 20-Gauge			
36"	12"	1VG15	3
	18"	1VG17	3
	24"	1VG19	3
48"	12"	1VG21	3
	18"	1VG23	3
	24"	1VG25	3
Additional Shelf, UltraCap™, 22-Gauge			
36"	12"	1VG27	3
	18"	1VG29	3
	24"	1VG31	3
48"	12"	1VG33	3
	18"	1VG35	3
	24"	1VG37	3

OPEN UNITS



Starter Unit
- 2 box posts
- 2 angle posts
- 3 braces
- 4 clips per shelf



Add-On Unit
- 1 box post
- 2 angle posts
- 2 braces
- 4 clips per shelf



Freestanding Unit
- 4 angle posts
- 3 braces
- 4 clips per shelf

CLOSED UNITS



Starter Unit
- 2 side panel assemblies
- 1 back panel assembly
- 4 clips per shelf



Add-On Unit
- 1 side panel assembly
- 1 back panel assembly
- 4 clips per shelf



Freestanding Unit
- 2 side panel assemblies
- 1 back panel assembly
- 4 clips per shelf



Open Unit
- 4 angle posts
- Shelves as ordered
- (3) 16-ga. steel braces



Closed Unit
- 4 angle posts
- Shelves as ordered
- 2 side panels
- 1 back panel

GA GRAINGER APPROVED

Commercial Shelving

- Shelves adjust in 1" increments
- 22-ga. steel shelves
- 16-ga. steel corner posts
- Baked-enamel finish

Connect multiple units to create complete storage systems.

H	W	D	No. of Shelves	Shelf Cap.*	OPEN SHELVING GRAY Item No.	OPEN SHELVING TAN Item No.	CLOSED SHELVING GRAY Item No.	CLOSED SHELVING TAN Item No.
42"	36"	12"	3	400 lb.	7D406	7D409	—	—
	36"	18"	3	375 lb.	7D407	7D410	—	—
	36"	24"	3	350 lb.	7D408	7D411	—	—
75"	36"	12"	5	400 lb.	7D370	7D373	7D371	7D372
	36"	12"	6	400 lb.	7D374	7D377	7D375	7D376
	36"	18"	5	375 lb.	7D382	7D385	7D383	7D384
	36"	18"	6	375 lb.	7D386	7D389	7D387	7D388
	36"	24"	5	350 lb.	7D394	7D397	7D395	7D396
	36"	24"	6	350 lb.	7D398	7D401	7D399	7D400
85"	36"	12"	8	400 lb.	7D378	7D381	7D379	7D380
	36"	18"	8	375 lb.	7D390	7D393	7D391	7D392
	36"	24"	8	350 lb.	7D402	—	7D403	7D404

For Use With	Shelf Cap.*	Pkg. Qty.	GRAY Item No.	TAN Item No.
Shelf with Shelf Clips				
Fits all 12" D Units	400 lb.	3	4TX60	4TX61
Fits all 18" D Units	375 lb.	3	4TX64	4TX65
Fits all 24" D Units	350 lb.	3	4TX68	4TX69

** Based on evenly distributed loads.*



Particleboard Shelves No. 1VG39



Compact "Z" shaped beam design with recessed step protects particleboard deck from chipping, prevents splinters, and increases usable storage height and load capacity.

GA GRAINGER APPROVED

Industrial Boltless Shelving

- 16-ga. "Z"-shaped beams for added strength
- 5 shelf levels adjust in 1½" increments
- 2-piece post units may be assembled vertically or horizontally
- Shipped unassembled

Particleboard Shelves—Durable particleboard shelves provide a smooth, solid surface. Double-riveted beams lock into heavy-duty corner posts to form structurally secure joint. Gray powder-coated finish.

Perforated Shelves—Waterproof perforated shelves can be used indoor or outdoors, including lawn and garden applications. Perforated surface allows drainage and ventilation. Shelves can be used flat or inclined for improved visibility and gravity flow. Smooth hidden post design hides rivets. Silver powder-coated finish.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	Item No.
36 in	18 in	72 in	1,200 lb	1VG39
	24 in	72 in	1,800 lb	1VG43
48 in	18 in	72 in	1,000 lb	1VG40
	24 in	72 in	1,400 lb	1VG44
60 in	18 in	72 in	1,000 lb	1VG41
	24 in	72 in	700 lb	1VG45
	36 in	72 in	600 lb	1VG47
72 in	18 in	72 in	1,000 lb	1VG42
	24 in	72 in	700 lb	1VG46
	36 in	72 in	600 lb	1VG48

** Based on evenly distributed loads.*



8-Shelf Unit

Hallowell

Freestanding Shelving

- Intermediate shelves adjust in 1½" increments
- 20-ga. steel shelves, gray powder-coated finish

Durable shelving provides adjustable storage with access from all four sides. Top and bottom shelves are triple-flanged on all sides and bolted for maximum strength and stability. Units include four angle posts.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	5-SHELF UNITS Item No.	7-SHELF UNITS Item No.	8-SHELF UNITS Item No.
36"	12"	87"	800 lb.	1BLK7	1BLL4	1BLN1
	18"	87"	800 lb.	1BLK9	1BLL6	1BLN3
	24"	87"	800 lb.	1BLL2	1BLL8	1BLN5
48"	12"	87"	400 lb.	1BLN7	1BLP4	1BLR1
	18"	87"	450 lb.	1BLN9	1BLP6	1BLR3
	24"	87"	500 lb.	1BLP2	1BLP8	1BLR5

** Based on evenly distributed loads.*

StrongHold

Closed Shelving Units

- Shelves adjust in 2" increments
- 12-ga. steel, gray enamel finish

Overall Width	Overall Depth	Overall Height	No. of Shelves	Shelf Cap.*	Item No.
Assembled					
36"	14"	72"	6	1900 lb.	3ZYD3
	18"	60"	5	1900 lb.	3ZYC8
	18"	72"	6	1900 lb.	3ZYD5
	24"	60"	5	1900 lb.	3ZYD1
	24"	72"	6	1900 lb.	3ZYD7
40"	20"	74"	5	1350 lb.	16A410
48"	18"	60"	5	1200 lb.	3ZYD9
	18"	72"	6	1200 lb.	3ZYE4
	24"	60"	5	1200 lb.	3ZYE2
	24"	72"	6	1200 lb.	3ZYE6
52"	20"	74"	5	850 lb.	16A411
60"	24"	60"	5	1650 lb.	3ZYE8
	24"	72"	6	1650 lb.	3ZYF1
72"	24"	60"	5	1525 lb.	3ZYF3
	24"	72"	6	1525 lb.	3ZYF5
Unassembled					
48"	18"	72"	5	1200 lb.	16A412
	24"	72"	5	1600 lb.	16A413
60"	24"	72"	5	2000 lb.	16A414

** Based on evenly distributed loads.*





Roller Starter Unit No. 46KF55



Wheelbed Starter Unit No. 46KF83



Roller Mobile Unit No. 46KF19



Wheelbed Mobile Unit No. 46KF25

UNEX

Flow Cell Gravity Flow Racks

Modular racks provide a dynamic storage unit to keep inventory organized and facilitate maximum picking efficiency. Ergonomically designed to minimize reaching and help reduce worker injury and fatigue. Versatile racks are also reconfigurable to accommodate possible line or process changes. Feature heavy-duty steel construction, clean sightlines, easy-to-adjust levels on 1" centers, and a powder-coat finish. Units are easy to assemble in under an hour. Mobile units feature 4"-dia. casters. Ideal for use as lineside storage, subassembly stations, supermarket racks, and modular mobile carts.

Overall Depth	Overall Height	No. of Shelves	ROLLER STARTER Item No.	ROLLER ADD-ON Item No.	WHEELBED STARTER Item No.	WHEELBED ADD-ON Item No.
60" Wide Racks, 1000-lb. Level Capacity						
48"	72"	3	46KF55	46KF57	46KF83	46KF85
48"	72"	4	46KF56	46KF58	46KF84	46KF86
60"	72"	3	46KF59	46KF61	46KF87	46KF89
60"	72"	4	46KF60	46KF62	46KF88	46KF90
72" Wide Racks, 1000-lb. Level Capacity						
48"	72"	3	46KF63	46KF71	46KF94	46KF93
48"	72"	4	46KF64	46KF72	46KF95	46KF96
60"	72"	3	46KF65	46KF67	46KF99	46KG02
60"	72"	4	46KF66	46KF68	46KG01	46KG03
72"	72"	3	46KF69	46KF73	46KF91	46KF97
72"	72"	4	46KF70	46KF74	46KF92	46KF98

Overall Depth	Overall Height	No. of Shelves	ROLLER MOBILE Item No.	WHEELBED MOBILE Item No.
36" Wide Racks, 1000-lb. Level Capacity				
48"	54"	3	46KF19	46KF25
60"	54"	3	46KF20	46KF26
72"	54"	3	46KF21	46KF27

Overall Depth	Overall Height	No. of Shelves	ROLLER MOBILE Item No.	WHEELBED MOBILE Item No.
48" Wide Racks, 1000-lb. Level Capacity				
48"	54"	3	46KF22	46KF28
60"	54"	3	46KF23	46KF29
72"	54"	3	46KF24	46KF30

UNEX

Roller Rack Gravity Flow Racks

Roller Rack structures are preconfigured, easy to assemble, and provide carton flow for order picking operations. Ideal applications include distribution, manufacturing, and retail operations where carton flow is important and there is no need to store pallets above the rack. These convenient racks use less steel than pallet racks, and feature a quick-to-build design to reduce freight costs and possible damage. Allow workers to replenish from the back without interrupting the pick line in front. Feature tilt-in beam clips for fast installation and adjustability, knockdown design for compact storage and transport, and a flexible modular design allowing for standalone units or add units for a bay of carton flow. Included posts are 2" on center punching.

Roller Starter Unit No. 46KG71



Wheelbed Starter Unit No. 46KG77

Overall Depth	ROLLER STARTER Overall Height	ROLLER STARTER Item No.	ROLLER ADD-ON Overall Height	ROLLER ADD-ON Item No.	ROLLER EXTRA LEVEL Overall Height	ROLLER EXTRA LEVEL Item No.	WHEELBED STARTER Overall Height	WHEELBED STARTER Item No.	WHEELBED ADD-ON Overall Height	WHEELBED ADD-ON Item No.	WHEELBED EXTRA LEVEL Overall Height	WHEELBED EXTRA LEVEL Item No.
48" Wide Racks, 3000 lb. Level Capacity												
96"	84"	46KG71	84"	46KG72	2⅝"	46KG73	84"	46KG77	84"	46KG78	2⅝"	46KG79
96" Wide Racks, 3000 lb. Level Capacity												
96"	84"	46KG83	84"	46KG84	2⅝"	46KG85	84"	46KG89	84"	46KG90	2⅝"	46KG91
96" *	84"	46KH02	84"	46KH03	84"	46KH04	84"	46KH08	84"	46KH09	2⅝"	46KH10

** Knuckled flow.*



Starter Unit
- 4 shelves
- 4 posts
- "S" hooks



Add-On Unit
- 4 shelves
- 2 posts
- "S" hooks

GA GRAINGER APPROVED — QUANTUM™ STORAGE SYSTEMS

Industrial Wire Shelving and Accessories

- Shelves adjust in 1" increments
- 800-lb. shelf capacity on 24", 36", and 48" widths (based on evenly distributed loads)
- 600-lb. shelf capacity on 60" and 72" widths (based on evenly distributed loads)

Shelves snap into place for easy set-up and repositioning. Tapered split-sleeve securely locks shelf to post. Raised shelf edges prevent roll-off. Posts include levelers to adapt to uneven flooring.

Push handles for 18"D units available on Grainger.com®. NSF Certified except shelf liners.

Zinc—An economical choice for general storage applications where a bright finish is not required.

Chrome—Bright finish resists rust and corrosion and is ideal for high-visibility areas.

Stainless Steel—Easy-to-clean Type 304 stainless steel resists rust and corrosion.

Overall Width	Overall Depth	ZINC Starter Item No.	ZINC Add-On Item No.	ZINC Wire Shelf Item No.	ZINC Wire Shelf Post Item No.
63"H Units					
24"	18"	1ZTF8	2HGL5	5GRT9	5GTD1
	24"	1ZTG4	2KNX4	5GRX4	5GTD1
36"	18"	1ZTF9	2KNW9	5GRU6	5GTD1
	24"	1ZTG5	2KNX5	5GRY1	5GTD1
48"	18"	1ZTG1	2KNX1	5GRV3	5GTD1
	24"	1ZTG6	2KNX7	5GRY8	5GTD1
	36"	2KPA1	2KPC8	5GTC2	5GTD1
60"	18"	1ZTG2	2KNX2	5GRW0	5GTD1
	24"	1ZTG7	2KNX6	5GRZ5	5GTD1
	36"	2KPA2	—	5GTC5	5GTD1
72"	18"	1ZTG3	2KNX3	5GRW7	5GTD1
	24"	1ZTG8	2KNX8	5GTA2	5GTD1
	36"	2KPA3	—	5GTC8	5GTD1
74"H Units					
24"	18"	1ZTG9	2KNX9	5GRT9	5GTD8
	24"	1ZTH5	2KNY5	5GRX4	5GTD8
36"	18"	1ZTH1	2KNY1	5GRU6	5GTD8
	24"	1ZTH6	2KNY6	5GRY1	5GTD8
	36"	2KPA4	—	—	—
48"	18"	1ZTH2	2KNY2	5GRV3	5GTD8
	24"	1ZTH7	2KNY7	5GRY8	5GTD8
	36"	2KPA5	2KPD3	5GTC2	5GTD8
60"	18"	1ZTH3	2KNY3	5GRW0	5GTD8
	24"	1ZTH8	2KNY8	5GRZ5	5GTD8
	36"	2KPA6	2KPD4	5GTC5	5GTD8
72"	18"	1ZTH4	2KNY4	5GRW7	5GTD8
	24"	1ZTH9	2KNY9	5GTA2	5GTD8
	36"	2KPA7	2KPD5	5GTC8	5GTD8
85"H Units					
24"	18"	2KPF2	—	5GRT9	5GTE5
	24"	2KPF7	—	5GRX4	5GTE5
36"	18"	2KPF3	—	5GRU6	5GTE5
	24"	2KPF8	—	5GRY1	5GTE5
48"	24"	2KPG1	—	5GRY8	5GTE5
	36"	2KPG4	—	5GTC2	5GTE5
60"	18"	2KPF5	—	5GRW0	5GTE5
	24"	2KPF9	—	5GRZ5	5GTE5
	36"	2KPG5	—	5GTC5	5GTE5
72"	24"	2KPG2	—	5GTA2	5GTE5
	36"	2KPG6	—	5GTC8	5GTE5

Overall Width	Overall Depth	BLACK Item No.	WHITE Item No.	CLEAR Item No.
Shelf Liners†, Pkg. of 4				
47⅝"	17⅜2"	5GRJ4	5GRE2	5GRF6
	23-11/32"	5GRJ9	5GRE7	5GRG1
	35-1/8"	5GRK3	5GRF1	5GRG5
70²⁹⁄₃₂"	17⅜2"	5GRJ6	5GRE4	5GRF8
	23-11/32"	5GRK1	5GRE9	5GRG3
	35-1/8"	5GRK5	5GRF3	5GRG7
23-11/32"	23-11/32"	—	5GRE5	5GRF9
	17⅜2"	5GRJ2	5GRE0	5GRF4
35-1/8"	23-11/32"	5GRJ8	5GRE6	5GRG0
	35-1/8"	5GRK2	—	5GRG4
	17⅜2"	5GRJ3	5GRE1	5GRF5
59-31/32"	23-11/32"	5GRK0	5GRE8	5GRG2
	17⅜2"	5GRJ5	5GRE3	5GRF7
	35-1/8"	—	—	5GRG6
Shelf Split Sleeve, Pkg. of 8 (Required)				
1"	1¼"	5GRT8	—	—

† Not NSF Certified. ‡ Quantum Storage Systems.

Overall Width	Overall Depth	CHROME PLATED Starter Item No.	Add-On Item No.	Wire Shelf Item No.	Wire Shelf Post Item No.	Shelf Dividers Item No.	Ledge Item No.	Hanger/ Rail Rod Item No.
63"H Units								
24"	18"	1ZTJ3	2HGJ3	5GRU0	5GTD2	5GRP2	5GRN1	—
	24"	1PGF2	2HGJ8	5GRX5	5GTD2	5GRP3	5GRN1	—
36"	18"	1ZTJ4	2HGJ4	5GRU7	5GTD2	5GRP2	5GRN2	—
	24"	1PGF3	2HGJ9	5GRY2	5GTD2	5GRP3	5GRN2	—
	36"	2KNZ1	2KPA8	—	5GTD2	5GRP4	5GRN2	—
48"	18"	1ZTJ5	2HGJ5	5GRV4	5GTD2	5GRP2	5GRN3	—
	24"	1PGF5	2HGK1	5GRY9	5GTD2	5GRP3	5GRN3	—
	36"	2KNZ2	2KPA9	5GTC3	5GTD2	5GRP4	5GRN3	—
60"	18"	1PGE9	2HGJ6	5GRW1	5GTD2	5GRP2	5GRN4	5GRT1
	24"	1PGF6	2HGK2	5GRZ6	5GTD2	5GRP3	5GRN4	5GRT1
	36"	2KNZ3	—	5GTC6	5GTD2	5GRP4	5GRN4	5GRT1
72"	18"	1PGF1	2HGJ7	5GRW8	5GTD2	5GRP2	5GRN5	5GRT2
	24"	1PGF7	2HGK3	5GTA3	5GTD2	5GRP3	5GRN5	5GRT2
	36"	2KNZ4	2KPC2	5GTC9	5GTD2	5GRP4	5GRN5	5GRT2
74"H Units								
24"	18"	1PGF8	2HGK4	5GRU0	5GTD9	5GRP2	5GRN1	—
	24"	1PGG5	2HGK9	5GRX5	5GTD9	5GRP3	5GRN1	—
36"	18"	1PGF9	2HGK5	5GRU7	5GTD9	5GRP2	5GRN2	—
	24"	1ANZ8	2HGL1	5GRY2	5GTD9	5GRP3	5GRN2	—
	36"	2KNZ5	2KPC3	—	5GTD9	5GRP4	5GRN2	—
48"	18"	1PGG2	2HGK6	5GRV4	5GTD9	5GRP2	5GRN3	—
	24"	1ANZ9	2HGL2	5GRY9	5GTD9	5GRP3	5GRN3	—
	36"	2KNZ6	2KPC4	5GTC3	5GTD9	5GRP4	5GRN3	—
60"	18"	1PGG3	2HGK7	5GRW1	5GTD9	5GRP2	5GRN4	5GRT1
	24"	1APA1	2HGL3	5GRZ6	5GTD9	5GRP3	5GRN4	5GRT1
	36"	2KNZ7	2KPC5	5GTC6	5GTD9	5GRP4	5GRN4	5GRT1
72"	18"	1PGG4	2HGK8	5GRW8	5GTD9	5GRP2	5GRN5	5GRT2
	24"	1APA2	2HGL4	5GTA3	5GTD9	5GRP3	5GRN5	5GRT2
	36"	2KNZ8	—	5GTC9	5GTD9	5GRP4	5GRN5	5GRT2
85"H Units								
24"	18"	2KPD6	—	5GRU0	5GTE6	5GRP2	5GRN1	—
	24"	2KPE2	—	5GRX5	5GTE6	5GRP3	5GRN1	—
36"	18"	2KPD7	—	5GRU7	5GTE6	5GRP2	5GRN2	—
	24"	2KPE3	—	5GRY2	5GTE6	5GRP3	5GRN2	—
	36"	2KPE7	—	—	5GTE6	5GRP4	5GRN2	—
48"	18"	2KPD8	—	5GRV4	5GTE6	5GRP2	5GRN3	—
	24"	2KPE4	—	5GRY9	5GTE6	5GRP3	5GRN3	—
	36"	2KPE8	—	5GTC3	5GTE6	5GRP4	5GRN3	—
60"	18"	2KPD9	—	5GRW1	5GTE6	5GRP2	5GRN4	5GRT1
	24"	2KPE5	—	5GRZ6	5GTE6	5GRP3	5GRN4	5GRT1
	36"	2KPE9	—	5GTC6	5GTE6	5GRP4	5GRN4	5GRT1
72"	18"	2KPE1	—	5GRW8	5GTE6	5GRP2	5GRN5	5GRT2
	24"	2KPE6	—	5GTA3	5GTE6	5GRP3	5GRN5	5GRT2
	36"	2KPF1	—	5GTC9	5GTE6	5GRP4	5GRN5	5GRT2

Overall Width	Overall Depth	STAINLESS STEEL Starter Item No.	Wire Shelf‡ Item No.	Shelf Divider‡ Item No.	Ledge‡ Item No.	Hanger/ Rail Rod‡ Item No.
63"H Units						
24"	18"	45TW03	45TW41	45TW29	45TW24	—
36"	24"	45TW05	45TW47	45TW30	45TW25	45TW37
48"	18"	45TW04	45TW43	45TW29	45TW26	45TW38
	24"	45TW06	45TW48	45TW30	45TW26	45TW38
60"	24"	45TW07	45TW49	45TW30	45TW27	45TW39
72"	24"	45TW08	45TW50	45TW30	45TW28	45TW40
74"H Units						
36"	18"	45TW09	45TW42	45TW29	45TW25	45TW37
48"	18"	45TW10	45TW43	45TW29	45TW26	45TW38
	24"	45TW11	45TW48	45TW30	45TW26	45TW38
60"	24"	45TW12	45TW49	45TW30	45TW27	45TW39

Description	Overall Width	Finish	Item No.
Shelf S Hooks, 1½ H x 1⁵⁄₁₆" W, Pkg. of 8			
Steel, Galvanized	1⁵⁄₁₆"	Galvanized	5GRP8
Steel, Chrome Plated	1⁵⁄₁₆"	Chrome Plated	5GRP9
Rubber Tread			
5" Rubber Swivel Zinc-Plated Caster	—		1ZTJ1
5" Rubber Swivel Zinc-Plated Caster with Over-The-Wheel Cam Brake	—		1ZTJ2

No. of Shelves	W	D	ZINC PLATED Item No.	CHROME PLATED Item No.	POWDER COATED Item No.
74" Height					
4	36"	18"	32V409	32V410	32V411
	48"	18"	5GPK8	5GPK2	5GPL4
	60"	18"	32V418	32V419	32V420
5	36"	18"	32V412	32V413	32V414
	48"	18"	5GPK7	5GPK1	5GPL3
	60"	18"	32V421	32V422	32V423
6	36"	18"	32V415	32V416	32V417
	48"	18"	5GPK6	5GPK0	5GPL2
	60"	18"	32V424	32V425	32V426
63" Height					
4	36"	18"	32V390	32V391	32V392
	48"	18"	5GPL1	5GPK5	5GPL7
	60"	18"	32V399	32V401	32V402
5	36"	18"	32V393	32V394	32V395
	48"	18"	5GPL0	5GPK4	5GPL6
	60"	18"	32V403	32V404	32V405
6	36"	18"	32V396	32V397	32V398
	48"	18"	5GPK9	5GPK3	5GPL5
	60"	18"	32V406	32V407	32V408

Description	Item No.
Rubber Tread	
Swivel with Lock	5GPL8
Swivel	5GPL9

GRAINGER APPROVED

Commercial Wire Shelving Units

- Shelves adjust in 1" increments
- 300-lb. shelf capacity (based on evenly distributed loads)

Quickly assembles and adjusts, without tools. Include 4 posts with leveling feet and S hooks. NSF Certified.

Zinc—Economical choice for general storage applications where a bright finish is not required.

Chrome—Bright finish resists rust and corrosion and is ideal for high-visibility areas.

Powder-Coated—Black, powder-coated steel combines structural strength with a more-attractive appearance for high-traffic, nonindustrial areas.



METRO
We put space to work.

MetroMax Q® Polymer Mat Shelving and Components

- Shelves and posts are sold separately to allow reconfiguration as storage needs change
- For Starter Units, order 1 pack of 4 shelves and 1 pack of 4 posts
- For Add-On Units, order 1 pack of 4 shelves and 1 pack of 2 posts; each add-on unit begins assembly at the posts of previous unit
- Steel posts and shelf frames have epoxy-coated finish for corrosion resistance
- 4 shelves adjust quickly and easily in 1" increments

Removable, polypropylene open grid-style shelf mats for easy cleaning. NSF Listed.

Shelves—Designed for cooler/freezer environments and dry storage. Built-in Microban® antimicrobial protection keeps surfaces cleaner between routine cleanings.

Casters—5" polyurethane casters are available with or without brake. Sold separately below.

Posts—Starter and add-on posts are fitted with adjustable leveling bolts to compensate for uneven surfaces. Stem caster posts come without leveling bolts to accommodate easier stem caster installations.



Swivel Caster w/Brake No. 2ENL4



Removable Mats

Overall Width	Overall Depth	Shelf Cap.*	Item No.	Pkg. Qty.
Open Grid Shelves, Metro				
30"	18"	800 lb.	5JNP2	4
	24"	800 lb.	5JNP8	4
36"	18"	800 lb.	5JNP3	4
	24"	800 lb.	5JNP9	4
48"	18"	800 lb.	5JNP4	4
	24"	800 lb.	5JNR0	4
54"	18"	600 lb.	5JNP5	4
	24"	600 lb.	5JNR1	4
60"	18"	600 lb.	5JNP6	4
	24"	600 lb.	5JNR2	4
72"	18"	600 lb.	5JNP7	4
	24"	600 lb.	5JNR3	4

** Based on evenly distributed loads.*

Description	Item No.	Pkg. Qty.
Optional Casters for Metromax Q® Shelving		
Swivel Caster	2ENL3	1
Swivel Caster w/Brake	2ENL4	1

Description	Overall Height	Overall Depth	Overall Width	Item No.	Pkg. Qty.
Shelving Posts, Metro					
Starter	62 3/16"	1 7/32"	1 3/4"	5JNR4	4
Add-On	62 3/16"	1 7/32"	1 3/4"	5JNR5	2
Starter	74 3/16"	1 7/32"	1 3/4"	5JNR6	4
Add-On	74 3/16"	1 7/32"	1 3/4"	5JNR7	2
Stem Caster, Starter	61 3/16"	1 7/32"	1 3/4"	5JNR8	4
Stem Caster, Starter	73 3/16"	1 7/32"	1 3/4"	5JNR9	4

Overall Height	Overall Width	Item No.	Pkg. Qty.
Side Ledges, Metro			
2"	18"	5JNT2	2
	24"	5JNT3	2
Back Ledges, Metro			
2"	36"	5JNT5	2
	48"	5JNT6	2
Overall Height	**Overall Depth**	**Item No.**	**Pkg. Qty.**
Dividers, Metro			
8"	18"	5JNT0	6
	24"	5JNT1	6

qwikSLOT® Post No. G6368



METRO
We put space to work.

qwikSLOT® Display Shelving

Shelving system provides the versatility to easily add, remove or adjust a shelf. Innovative shelf support system snaps into the post allowing instant shelf adjustment. Can be used for dry storage in a noncritical environment or for retail display, or any application where shelf position changes on a regular basis.

Overall Width	Overall Depth	Shelf Cap.	CHROME PLATED Each	CHROME PLATED Pkg. 4	CHROMATE Each	CHROMATE Pkg. 4
qwikSLOT® Shelves						
36"	14"	300 lb.	25W978	26C333	25W986	26C341
	18"	300 lb.	25W980	26C335	25W988	26C343
	21"	300 lb.	25W982	26C337	25W990	26C345
	24"	300 lb.	25W984	26C339	25W992	26C347
48"	14"	300 lb.	25W979	26C334	25W987	26C342
	18"	300 lb.	25W981	26C336	25W989	26C344
	21"	300 lb.	25W983	26C338	25W991	26C346
	24"	300 lb.	25W985	26C340	25W993	26C348

** Silver posts have plated finish.*

H	▶CHOOSE: Color Silver*, White, Black, Smoked Glass Pkg. 4
qwikSLOT® Posts	
33"	G6368
54"	G6369
63"	G6370
74"	G6371
86"	G6372

Pkg. Qty.	Item No.
qwikSLOT® Locking Shelf Clips	
4	39F255

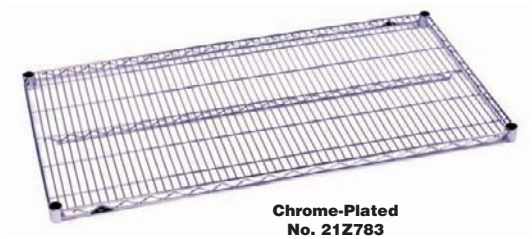


Chrome No. 25W978

Metro® Wire Shelving General Information

- Shelves adjust in 1" increments
- Shelves and posts are sold separately to allow reconfiguration
- For Starter Units, order 1 pack of 4 shelves and 1 pack of 4 posts
- For Add-On Units, order 1 pack of 4 shelves and 1 pack of 2 posts
- Each add-on unit begins assembly at the posts of the previous unit
- 5 pack of shelves are available on Grainger.com®

Open wire design allows air and light penetration for air circulation and sight management of contents. Simple no-tool assembly. **Chrome-plated** shelving is ideal for dry storage. **Metroseal 3™** features corrosion-resistant epoxy finish for damp/moist environments and includes Microban® antimicrobial product protection. Electro-polished **stainless steel** shelving can be used in laboratory and electronic manufacturing applications. Selected shelves and posts are NSF Listed.



Chrome-Plated
No. 21Z783



Metroseal 3™
No. 21Z940

Super Erecta® Wire Shelving

METRO — We put space to work.

- Max. load per shelving unit: 2000 lb.
- NSF Listed

W	D	Shelf Cap.*	CHROME PLATED Each	CHROME PLATED Pkg. 4	STAINLESS STEEL Each	STAINLESS STEEL Pkg. 4	CHROMATE Each	CHROMATE Pkg. 4	METROSEAL 3™ Each	METROSEAL 3™ Pkg. 4
18"	24"	800 lb.	—	21Z173	—	—	—	—	—	—
24"	14"	800 lb.	21Z783	21Z166	21Z815	21Z197	21Z846	21Z229	21Z940	21Z323
	18"	800 lb.	21Z790	—	21Z822	21Z205	21Z853	21Z236	21Z947	21Z330
	21"	800 lb.	21Z798	21Z181	21Z830	21Z213	21Z861	21Z244	21Z955	21Z338
	24"	800 lb.	21Z807	21Z189	21Z838	21Z221	21Z869	21Z252	21Z963	21Z346
30"	14"	800 lb.	21Z784	21Z167	21Z816	21Z198	21Z847	21Z230	21Z941	21Z324
	18"	800 lb.	21Z791	21Z174	21Z823	21Z206	21Z854	21Z237	21Z948	21Z331
	21"	800 lb.	21Z799	21Z182	21Z831	21Z214	21Z862	21Z245	21Z956	21Z339
	24"	800 lb.	21Z808	21Z190	21Z839	21Z222	21Z870	21Z253	21Z964	21Z347
36"	14"	800 lb.	21Z785	21Z168	21Z817	21Z199	21Z848	21Z231	21Z942	21Z325
	18"	800 lb.	21Z792	21Z175	21Z824	21Z207	21Z855	21Z238	21Z949	21Z332
	21"	800 lb.	21Z801	21Z183	21Z832	21Z215	21Z863	21Z246	21Z957	21Z340
	24"	800 lb.	3W572	21Z191	21Z840	21Z223	21Z871	21Z254	21Z965	21Z348
42"	14"	800 lb.	21Z786	21Z169	21Z818	21Z201	21Z849	21Z232	21Z943	21Z326
	18"	800 lb.	21Z793	21Z176	21Z825	21Z208	21Z856	21Z239	21Z950	21Z333
	21"	800 lb.	21Z802	21Z184	21Z833	21Z216	21Z864	21Z247	21Z958	21Z341
	24"	800 lb.	21Z810	21Z192	21Z841	21Z224	21Z872	21Z255	21Z966	21Z349
48"	14"	800 lb.	21Z787	21Z170	21Z819	21Z202	21Z850	21Z233	21Z944	21Z327
	18"	800 lb.	21Z794	21Z177	21Z826	21Z209	21Z857	21Z240	21Z951	21Z334
	21"	800 lb.	21Z803	21Z185	21Z834	21Z217	21Z865	21Z248	21Z959	21Z342
	24"	800 lb.	21Z811	21Z193	21Z842	21Z225	21Z873	21Z256	21Z967	21Z350
54"	18"	600 lb.	21Z795	21Z178	21Z827	21Z210	21Z858	21Z241	21Z952	21Z335
	21"	600 lb.	21Z804	21Z186	21Z835	21Z218	21Z866	21Z249	21Z960	21Z343
	24"	600 lb.	21Z812	21Z194	21Z843	21Z226	21Z874	21Z257	21Z968	21Z351
60"	14"	600 lb.	21Z788	21Z171	21Z820	21Z203	21Z851	21Z234	21Z945	21Z328
	18"	600 lb.	21Z796	21Z179	21Z828	21Z211	21Z859	21Z242	21Z953	21Z336
	21"	600 lb.	21Z805	21Z187	21Z836	21Z219	21Z867	21Z250	21Z961	21Z344
	24"	600 lb.	21Z813	21Z195	21Z844	21Z227	21Z875	21Z258	21Z969	21Z352
72"	14"	600 lb.	21Z789	21Z172	21Z821	21Z204	21Z852	21Z235	21Z946	21Z329
	18"	600 lb.	21Z797	21Z180	21Z829	21Z212	21Z860	21Z243	21Z954	21Z337
	21"	600 lb.	21Z806	21Z188	21Z837	21Z220	21Z868	21Z251	21Z962	21Z345
	24"	600 lb.	21Z814	21Z196	21Z845	21Z228	21Z876	21Z259	21Z970	21Z353

** Based on evenly distributed loads.*



4-Shelf Starter Unit
No. 9T502



METRO — We put space to work.

Super Adjustable Super Erecta® Wire Shelving

- Max. load per shelving unit: 2000 lb.
- Chrome finish

Innovative corner release system and SiteSelect Posts make changing shelf levels quick and easy without using tools. NSF Listed.

H	W	D	Item No.
63"	24"	18"	9T502
		24"	8DC50
	30"	18"	8NGP4
		24"	9NW94
	36"	18"	8TK84
		24"	9DZP0
	42"	18"	8DAR4
		24"	8XCG2
	48"	18"	8DAR5
		24"	8W964
	60"	18"	8RPZ9
		24"	9KJ79
	72"	18"	8DC49
		24"	8DMZ0



No. 22A708

SiteSelect® Shelving Posts

METRO — We put space to work.

- Sold separately to allow reconfiguration as storage needs change
- Include 8 "S" hooks per pair of Add-On posts
- SiteSelect posts work with both Super Erecta and Super Erecta Adjustable shelves
- NSF Listed

H	Pkg. Qty.	CHROME PLATED Item No.	STAINLESS STEEL Item No.	METROSEAL 3™ Item No.
Metro Starter Posts				
54"	4	22A708	22A716	22A740
63"	4	22A710	22A718	22A742
74"	4	22A712	22A720	22A744
86"	4	22A714	22A722	22A746
Metro Add-On Posts				
54"	2	22A709	22A717	22A741
63"	2	22A711	22A719	22A743
74"	2	22A713	22A721	22A745
86"	2	22A715	22A723	22A747

No. 23PA84



No. 4YW92



ALH — Label Holders

Label Holders

- Clear, 1¼" high
- Include white paper inserts

Description	Item No.
Adjustable	
1¼" x 3", Angle 30°, 60° or 90°	23PA84
Fixed	
1¼" x 3"	4YW91
1¼" x 6"	4YW92
1½" x 3"	5AU71

Super Adjustable™ Super Erecta® Shelving

We put space to work.

- Unique corner release makes adjusting shelf heights quicker and easier
- See page 1248 for posts and accessories

Metroseal 3™ finish is a special green epoxy finish with built-in Microban® product protection to keep surfaces cleaner between routine cleanings. NSF Listed.

W	D	Shelf Cap.	CHROME PLATED Item No.	CHROME PLATED Pkg. 4	METROSEAL 3™ Item No.	METROSEAL 3™ Pkg. 4	STAINLESS STEEL Item No.	STAINLESS STEEL Pkg. 4
14"	24"	800 lb.	22A305	21Z687	22A367	21Z750	22A336	21Z719
	30"	800 lb.	22A306	21Z688	22A368	21Z751	22A337	21Z720
	36"	800 lb.	22A307	21Z689	22A369	21Z752	22A338	21Z721
	42"	800 lb.	22A308	21Z690	22A370	21Z753	22A339	21Z722
	48"	800 lb.	22A309	21Z691	22A371	21Z754	22A340	21Z723
	60"	600 lb.	22A310	21Z692	22A372	21Z755	22A341	21Z724
	72"	600 lb.	22A311	21Z693	22A373	21Z756	22A342	21Z725
18"	24"	800 lb.	22A312	21Z694	22A374	21Z757	22A343	21Z726
	30"	800 lb.	22A313	21Z695	22A375	21Z758	22A344	21Z727
	36"	800 lb.	22A314	21Z696	22A376	21Z759	22A345	21Z728
	42"	800 lb.	22A315	21Z697	22A377	21Z760	22A346	21Z729
	48"	800 lb.	22A316	21Z698	22A378	21Z761	22A347	21Z730
	54"	600 lb.	22A317	21Z699	22A379	21Z762	22A348	21Z731
	60"	600 lb.	22A318	21Z701	22A380	21Z763	22A349	21Z732
	72"	600 lb.	22A319	21Z702	22A381	21Z764	22A350	21Z733
21"	24"	800 lb.	22A320	21Z703	22A382	21Z765	22A351	21Z734
	30"	800 lb.	22A321	21Z704	22A383	21Z766	22A352	21Z735
	36"	800 lb.	22A322	21Z705	22A384	21Z767	22A353	21Z736
	42"	800 lb.	22A323	21Z706	22A385	21Z768	22A354	21Z737
	48"	800 lb.	22A324	21Z707	22A386	21Z769	22A355	21Z738
	54"	600 lb.	22A325	21Z708	22A387	21Z770	22A356	21Z739
	60"	600 lb.	22A326	21Z709	22A388	21Z771	22A357	21Z740
	72"	600 lb.	22A327	21Z710	22A389	21Z772	22A358	21Z741
24"	24"	800 lb.	22A328	21Z711	22A390	21Z773	22A359	21Z742
	30"	800 lb.	22A329	21Z712	22A391	21Z774	22A360	21Z743
	36"	800 lb.	22A330	21Z713	22A392	21Z775	22A361	21Z744
	42"	800 lb.	22A331	21Z714	22A393	21Z776	22A362	21Z745
	48"	800 lb.	22A332	21Z715	22A394	21Z777	22A363	21Z746
	54"	600 lb.	22A333	21Z716	22A395	21Z778	22A364	21Z747
	60"	600 lb.	22A334	21Z717	22A396	21Z779	22A365	21Z748
	72"	600 lb.	22A335	21Z718	22A397	21Z780	22A366	21Z749



Chrome-Plated
No. 22A305



Metroseal 3™
No. 22A367

Super Erecta® Solid Shelving

We put space to work.

- See page 1248 for posts and accessories

Shelves designed with a raised edge on all 4 sides to contain spills. Louvered shelving allows air circulation. Galvanized shelving features uncoated cast corners. Stainless solid steel shelves have epoxy-coated cast corners and autoclavable shelves are all-stainless steel construction to withstand high temperatures and corrosive applications. NSF Listed.

W	D	Shelf Cap.	Pkg. Qty.	SOLID STEEL SHELVING Autoclavable Item No.	SOLID STEEL SHELVING Galvanized Item No.	SOLID STEEL SHELVING Stainless Item No.	LOUVERED STEEL SHELVING Galvanized Item No.	LOUVERED STEEL SHELVING Stainless Item No.
14"	24"	800 lb.	1	22A280	22A183	22A208	22A232	22A256
	24"	800 lb.	4	21Z663	21Z566	21Z590	21Z615	21Z639
	30"	800 lb.	1	22A281	22A184	22A209	22A233	22A257
	30"	800 lb.	4	21Z664	21Z567	21Z591	21Z616	21Z640
	36"	800 lb.	1	22A282	22A185	22A210	22A234	22A258
	36"	800 lb.	4	21Z665	21Z568	21Z592	21Z617	21Z641
	42"	800 lb.	1	22A283	22A186	22A211	22A235	22A259
	42"	800 lb.	4	21Z666	21Z569	21Z593	21Z618	21Z642
	48"	800 lb.	1	22A284	22A187	22A212	22A236	22A260
	48"	800 lb.	4	21Z667	21Z570	21Z594	21Z619	21Z643
	60"	600 lb.	1	22A285	22A188	22A213	22A237	22A261
	60"	600 lb.	4	21Z668	21Z571	21Z595	21Z620	21Z644
18"	24"	800 lb.	1	22A286	22A189	22A214	22A238	22A262
	24"	800 lb.	4	21Z669	21Z572	21Z596	21Z621	21Z645
	30"	800 lb.	1	22A287	22A190	22A215	22A239	22A263
	30"	800 lb.	4	21Z670	21Z573	21Z597	21Z622	21Z646
	36"	800 lb.	1	22A288	22A191	22A216	22A240	22A264
	36"	800 lb.	4	21Z671	21Z574	21Z598	21Z623	21Z647
	42"	800 lb.	1	22A289	22A192	22A217	22A241	22A265
	42"	800 lb.	4	21Z672	21Z575	21Z599	21Z624	21Z648
	48"	800 lb.	1	22A290	22A193	22A218	22A242	22A266
	48"	800 lb.	4	21Z673	21Z576	21Z601	21Z625	21Z649
	60"	600 lb.	1	22A291	22A194	22A219	22A243	22A267
	60"	600 lb.	4	21Z674	21Z577	21Z602	21Z626	21Z650
21"	24"	800 lb.	1	22A292	22A195	22A220	22A244	22A268
	24"	800 lb.	4	21Z675	21Z578	21Z603	21Z627	21Z651
	30"	800 lb.	1	22A293	22A196	22A221	22A245	22A269
	30"	800 lb.	4	21Z676	21Z579	21Z604	21Z628	21Z652
	36"	800 lb.	1	22A294	22A197	22A222	22A246	22A270
	36"	800 lb.	4	21Z677	21Z580	21Z605	21Z629	21Z653
	42"	800 lb.	1	22A295	22A198	22A223	22A247	22A271
	42"	800 lb.	4	21Z678	21Z581	21Z606	21Z630	21Z654
	48"	800 lb.	1	22A296	22A199	22A224	22A248	22A272
	48"	800 lb.	4	21Z679	21Z582	21Z607	21Z631	21Z655
	60"	600 lb.	1	22A297	22A201	22A225	22A249	22A273
	60"	600 lb.	4	21Z680	21Z583	21Z608	21Z632	21Z656
24"	24"	800 lb.	1	22A298	22A202	22A226	22A250	22A274
	24"	800 lb.	4	21Z681	21Z584	21Z609	21Z633	21Z657
	30"	800 lb.	1	22A299	22A203	22A227	22A251	22A275
	30"	800 lb.	4	21Z682	21Z585	21Z610	21Z634	21Z658
	36"	800 lb.	1	22A301	22A204	22A228	22A252	22A276
	36"	800 lb.	4	21Z683	21Z586	21Z611	21Z635	21Z659
	42"	800 lb.	1	22A302	22A205	22A229	22A253	22A277
	42"	800 lb.	4	21Z684	21Z587	21Z612	21Z636	21Z660
	48"	800 lb.	1	22A303	22A206	22A230	22A254	22A278
	48"	800 lb.	4	21Z685	21Z588	21Z613	21Z637	21Z661
	60"	600 lb.	1	22A304	22A207	22A231	22A255	22A279
	60"	600 lb.	4	21Z686	21Z589	21Z614	21Z638	21Z662



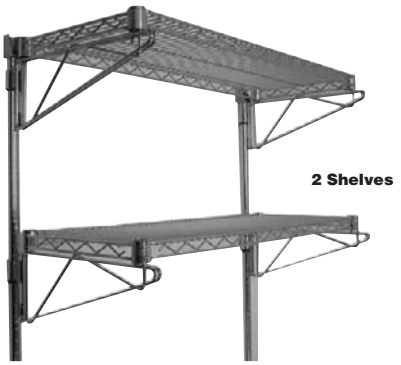
Solid Stainless Steel
Autoclavable
No. 22A280



Solid Stainless Steel
No. 22A208



Louvered Steel
Galvanized
No. 22A232



Wall-Mount Wire Shelving Kits

GRAINGER APPROVED

- Shelves adjust in 1" increments
- Shelf capacity: 250 lb., evenly distributed

Add extra storage space to work area, up and out of the way. Open wire design minimizes dust accumulation and allows good air circulation and light penetration. Kits include shelving and 2 post mounts. Chrome Wire is NSF Certified.

Overall Width	Overall Height	Overall Depth	CHROME WIRE Item No.	STAINLESS STEEL Item No.
1 Shelf and 2 Post Mounts				
24"	14"	14"	2HGC9	—
24"	14"	18"	2HGD1	45TV79
36"	14"	14"	2HGD2	45TV80
36"	14"	18"	2HGD3	45TV81
48"	14"	14"	2HGD4	45TV82
48"	14"	18"	2HGD5	45TV83
60"	14"	14"	2HGD6	45TV84
60"	14"	18"	2HGD7	45TV85
2 Shelves and 2 Post Mounts				
24"	34"	14"	2HGD8	—
24"	34"	18"	2HGD9	45TV87
36"	34"	14"	2HGE1	45TV88
36"	34"	18"	2HGE2	45TV89
48"	34"	14"	2HGE3	45TV90
48"	34"	18"	2HGE4	45TV91
60"	34"	14"	2HGE5	45TV92
60"	34"	18"	2HGE6	45TV93
3 Shelves and 2 Post Mounts				
24"	54"	14"	2HGE7	—
24"	54"	18"	2HGE8	45TV95
36"	54"	14"	2HGE9	45TV96
36"	54"	18"	2HGF1	45TV97
48"	54"	14"	2HGF2	45TV98
48"	54"	18"	2HGF3	45TV99
60"	54"	14"	2HGF4	45TW01
60"	54"	18"	2HGF5	45TW02



GRAINGER APPROVED

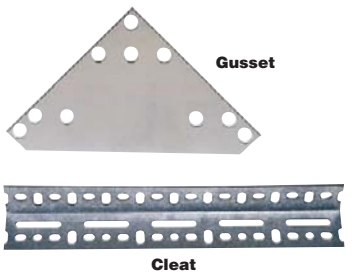
Wall-Mount Solid Shelving Kits

- Shelf capacity: 100 lb., evenly distributed

Highly corrosion-resistant solid shelving is easy to clean. 1½" backsplash protects walls from debris. Rolled front lip allows easy access to shelf surface. No. 2HFX9 is NSF Certified.

Overall Width	Overall Depth	GALVANIZED STEEL Overall Height	GALVANIZED STEEL Item No.	STAINLESS STEEL Overall Height	STAINLESS STEEL Item No.
24"	12"	13½"	2HFX9	11½"	2HFZ9
24"	16"	17½"	2HFY9	11½"	2HGA9
36"	12"	13½"	2HFY1	11½"	2HGA1
36"	16"	13½"	2HFZ1	11½"	2HGC1
48"	12"	13½"	2HFY2	11½"	2HGA2





GRAINGER APPROVED

Slotted Angle and Accessories

POST KITS

Bolt together to make custom steel shelving, racks, platforms, carts, and more. Kits include 75 zinc-plated hex head bolts and nuts. Rust-resistant, galvanized steel. Shipped unassembled.

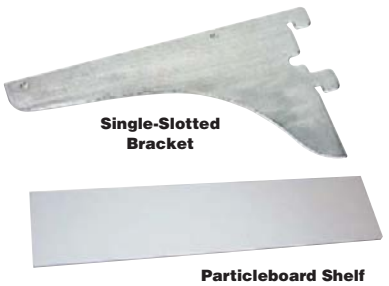
Cleat and Gusset Kit—Bolt-on cleats join and reinforce slotted-angle posts to create longer lengths; gussets reinforce corner joints. Rust-resistant, galvanized steel.

Post Position	LOAD CAPACITIES (LB.) OF SLOTTED ANGLE POSTS* 3-ft. Length 14-Ga.	3-ft. Length 12-Ga.	4-ft. Length 14-Ga.	4-ft. Length 12-Ga.	5-ft. Length 14-Ga.	5-ft. Length 12-Ga.	6-ft. Length 14-Ga.	6-ft. Length 12-Ga.	7-ft. Length 14-Ga.	7-ft. Length 12-Ga.	8-ft. Length 14-Ga.	8-ft. Length 12-Ga.
Vertical as an Upright Post	2540	3470	2190	2870	1690	1970	1190	1280	740	775	1025	1075
Horizontal as a Beam, Long Leg Up	750	1140	500	850	370	690	215	370	160	170	140	150
Horizontal as a Beam, Short Leg Down	910	1250	600	850	400	600	230	400	170	300	160	280
Horizontal as a Beam, Long Leg Down	1690	2750	1170	1800	880	1000	670	790	530	610	380	430

Gauge	L	W	D	No. Posts per Kit	Item No.
Slotted Angle Post Kit					
14	12 ft.	2¼"	1½"	5	3W095
12	12 ft.	3"	1½"	5	3W151

** Based on evenly distributed loads.*

Description	Item No.
Cleat and Gusset Kit	
Six 12-ga. Cleats (9"L x 2¼"H x 1½"D) and Six 14-ga. Gussets (8⅝"L x 6" x 6")	6X833



Slotted Standards, Brackets, and Shelving

GRAINGER APPROVED

Note: For optimum weight capacity, center-to-center spacing between brackets or standards should not exceed 18". Load ratings are based on uniformly distributed loads.

SINGLE-SLOTTED STANDARDS AND BRACKETS

- Shelves adjust in 2" increments

Brackets are tapped with screw holes. Nylon cam lock lever secures brackets to standards. Mounting holes on standards are on 12" centers; standards are ⅞"W and ⅝"D.

H	SINGLE-SLOTTED Item No.	DOUBLE-SLOTTED Item No.
Standards		
24"	1WDN8	1WDR2
36"	1WDN9	1WDR3
48"	1WDP1	1WDR4
60"	1WDP2	1WDR5
72"	1WDP3	1WDR6
84"	1WDP4	1WDR7
96"	1WDP5	1WDR8

D	SINGLE-SLOTTED Item No.	DOUBLE-SLOTTED Item No.
Brackets		
8"	1WDP6	1WDR9
10"	1WDP7	1WDT1
12"	1WDP8	1WDT2
14"	1WDP9	1WDT3
16"	1WDR1	1WDT4

DOUBLE-SLOTTED

Designed for lateral stability and support; compatible with laminate particleboard or wood shelving.

Standards and Brackets

- Shelves adjust in 1" increments

Mounting holes on standards are on 11 5/16" centers; standards are 1¼"W and ½"D.

Laminate Particleboard Shelving

- Stain- and scratch-resistant ⅝" particleboard
- White melamine-coated finish
- Shelf capacity: 200 lb.

W	D	Item No.
Laminated Particleboard Shelving		
48"	10"	1WDU2
48"	12"	1WDU4
60"	16"	1WDU6
72"	10"	1WDU3
72"	12"	1WDU5

SPC INDUSTRIAL

Plastic Bulk Shelving and Containment Trays

Grid and Solid Top Shelving— Rugged high-density polyethylene construction provides extra-high load capacities, while the modular design enables a variety of configurations. Resistant to oils, gas, acids, solvents, and most industrial chemicals. UV protected.

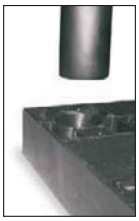
Containment Trays—Keep materials separated and confine spills to prevent damage to stored items. Use 1 tray between each section of leg posts. Come in chemical storage color coding. Can only be used with 24" deep and 36", 66", or 96" wide shelving units.

Overall Width	Overall Depth	Shelf Cap.*	2-SHELF, 27" H SYSTEM Item No.	3-SHELF, 51" H SYSTEM Item No.	4-SHELF, 75" H SYSTEM Item No.
Grid Top Shelving					
36"	16"	170 lb.	4UX41	4DV13	4DV12
36"	24"	250 lb.	4UX43	4DV11	4DV10
48"	24"	344 lb.	1PWY1	1PWY3	1PWY5
66"	24"	470 lb.	4UX47	4DU99	4DU98
96"	16"	450 lb.	4UX49	4DU97	4DU96
96"	24"	680 lb.	4UX51	4DU95	4DU94
Solid Top Shelving					
36"	24"	330 lb.	14U077	14U084	14U091
36"	36"	492 lb.	14U078	14U085	14U092
48"	24"	452 lb.	14U079	—	14U093
66"	24"	605 lb.	14U080	14U087	14U094
66"	36"	900 lb.	14U081	14U088	14U095
96"	24"	885 lb.	14U082	14U089	14U096
96"	36"	1320 lb.	14U083	14U090	14U097

Description	Color	Item No.
Containment Trays		
General Storage	Black	14U098
Health Hazards/Toxics	Black w/Blue Stripe	14U101
Flammables	Black w/Red Stripe	14U099
Contact Hazards	Black w/White Stripe	14U103
Reactives/Oxidizers	Black w/Yellow Stripe	14U102

Based on evenly distributed loads.





Legs Connect Securely in Sockets



Leg Stackers Lock Components Together

PLANO

Plastic Shelving



Solid Shelves



Ventilated Shelves

Durable, lightweight ventilated and solid polypropylene shelving will not rust or peel and is chemical resistant. Interlocking shelves connect multiple units for added storage. Snap-Fit Assembly™—no tools required. May be wall-mounted for extra strength and stability.

H	Dim. W	D	No. of Shelves	Shelf Cap.*	Color	Item No.
Solid Shelves						
48"	22"	14"	4	50 lb.	White	54VJ08
55½"	30"	14"	4	100 lb.	White	54VJ06
74¾"	29¼"	13¼"	5	75 lb.	White	54VJ05
Ventilated Shelves						
73½"	36"	23"	5	200 lb.	Gray	54VJ04
73¾"	36"	18"	5	150 lb.	Dark Gray	54VJ03

Based on evenly distributed loads.

METRO
We put space to work.

Freestanding Ventilated Plastic Shelving

- Shelves adjust on 1" increments
- 800 lb. shelf capacity (based on evenly distributed loads)
- 63"H

Easy-to-assemble shelving made of removable polymer open grid shelf mats, wire shelf frames, and corner releases. Shelf frames and steel posts feature an epoxy coating over an electroplated substrate. Built-in Microban® antimicrobial protection on shelf mats and posts. Resists rust and corrosion. NSF Listed.



Overall Width	Overall Depth	No. of Shelves	Item No.
36"	18"	4	9F154
36"	24"	4	9DLJ1
48"	18"	4	8CEW2
60"	18"	4	8CEW3
72"	18"	4	8ZAA2
72"	24"	4	9PTY5



Quick-to-Adjust Corner Release

Sandusky

Freestanding Plastic Shelving Units

Durable, ventilated resin shelving will never rust, dent or peel and is chemical resistant. Can be used indoors and outdoors. Easy to assemble in minutes with no tools required. Color black.

Includes	H	Dim. W	D	Shelf Cap.*	Item No.
(12) Posts, (4) Shelves	56"	36"	18"	150 lb.	39EY61
(16) Posts, (5) Shelves	72"	36"	18"	150 lb.	39EY62
(16) Posts, (5) Shelves	72"	36"	24"	150 lb.	39EY63

Based on evenly distributed loads.

No. 39EY61





No. 39EY62



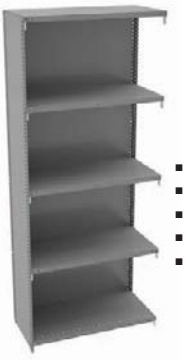
Open Starter Unit
- 4 angle posts
- 3 sets of braces
- 4 clips per shelf



Open Add-On Unit
- 2 angle posts
- 1 beaded post
- 2 sets of braces
- 4 clips per shelf



Closed Starter Unit
- 4 angle posts
- 1 back panel
- 2 end panels
- 4 clips per shelf



Closed Add-On Unit
- 2 angle posts
- 1 beaded post
- 1 back panel
- 1 end panel
- 4 clips per shelf

tennsco Storage Made Easy

Industrial Shelving

- Shelves adjust on 1" centers
- Medium gray powder-coated finish
- Shipped unassembled

Affordable and versatile system of open and closed units can be easily incorporated into your office, warehouse, or factory. Shelves have a welded box formed construction at front and rear, lapped and welded corners, and sides with triple bend construction. Perforated shelves help meet fire codes when storing flammables by allowing water from overhead sprinklers to reach all levels of the unit.

Overall Width	Overall Depth	Overall Height	Shelf Cap.*	OPEN UNITS STARTER Item No.	OPEN UNITS ADD-ON Item No.	CLOSED UNITS STARTER Item No.	CLOSED UNITS ADD-ON Item No.
20-ga. Shelving							
36"	12"	87"	1000 lb.	9EYK0	8N795	9MH92	9LA94
	18"	87"	850 lb.	8CJU6	8CL88	9PRA1	9A729
	24"	87"	800 lb.	8CJU7	9A730	9NU59	8TKE1
48"	12"	87"	650 lb.	9W723	8CL89	8UR51	9WD06
	18"	87"	550 lb.	8CJU8	8CL90	9CLY8	8N794
	24"	87"	550 lb.	8CL87	8X965	8N793	9WYP4
22-ga. Shelving							
36"	12"	87"	750 lb.	9MH95	9NU62	8CLP8	9WC86
	18"	87"	750 lb.	8CLP3	8RHN9	8CLP9	8RHP0
	24"	87"	700 lb.	9MH96	8PGR9	8CLR0	9PP46
48"	12"	87"	500 lb.	9K424	8Y608	8PGT0	8Y609
	18"	87"	500 lb.	8CLP4	9LA96	9PP43	8CLR1
	24"	87"	450 lb.	8CLP5	8CLP7	9MH98	8CLM8
22-ga. Shelving with Perforated Shelves							
36"	12"	87"	450 lb.	9J758	9N113	8A146	8RV13
	18"	87"	450 lb.	8U674	8ZRX5	8FZX2	9LK60
	24"	87"	400 lb.	9FGY4	8RV10	8ZRX6	9EF68
48"	12"	87"	300 lb.	8FZW9	9FGY5	8A147	8FZX3
	18"	87"	300 lb.	8FZX0	9P908	9CXE6	8V309
	24"	87"	250 lb.	8FZX1	8RV11	8RV12	8U675

** Based on evenly distributed loads.*

Overall Width	Overall Depth	Item No.
Additional Shelves		
20-ga.		
36"	12"	9PRA3
	18"	9DYH4
	24"	8X967
48"	12"	9HNE4
	18"	9A735
	24"	8RHN6
22-ga.		
36"	12"	9PRA2
	18"	8CLM9
	24"	8PGR6
48"	12"	9U978
	18"	9NU61
	24"	8VRC1
22-ga. with Perforated Shelf		
36"	12"	8G262
	18"	9KFE8
	24"	8G263
48"	12"	9GMY4
	18"	8G264
	24"	8ZHY8



METRO We put space to work.

Dunnage Racks

- 1-pc., rust- and corrosion-resistant polymer construction

Bow-tie connectors join racks in end-to-end and back-to-back configurations. Snag-free surfaces are easy to clean. Front-to-back slots increase air circulation for longer product life. Antimicrobial models feature Microban® antimicrobial product protection.

W	Dim. H	D	Load Cap.	Item No.
Polyethylene				
30"	12"	22"	1500 lb.	8TJN7
36"	12"	22"	1500 lb.	9AH85
48"	12"	22"	3000 lb.	8CGC7
60"	12"	22"	3000 lb.	8RRZ4
Polyethylene w/Antimicrobial Treatment				
30"	12"	22"	1500 lb.	1BEY1
36"	12"	22"	1500 lb.	1BEY2
48"	12"	22"	3000 lb.	1BEY3
60"	12"	22"	3000 lb.	1BEY4



Grid Top



Solid Top

SPC INDUSTRIAL

Plastic Dunnage Racks

- Constructed of high-density polyethylene
- 12" leg posts
- Snap together for easy assembly

Heavy-duty construction provides extra-high load capacities and can withstand extreme temperatures. Long-lasting, noncorrosive material is impervious to oils, salts, acids, and most industrial chemicals. Easy to steam-clean or disinfect. Lightweight and portable.

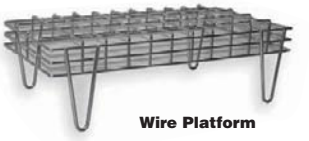
Grid Top—Flow-through design permits scrap and liquids to fall or drain below.

Solid Top—Boxes can slide on and off without catching corners or damaging containers.

W	Dim. H	D	Load Cap.	Item No.
Grid Top				
36"	12"	24"	500 lb.	4UW54
48"	12"	24"	700 lb.	1PXA1
66"	12"	24"	1000 lb.	4UW56
96"	12"	24"	1400 lb.	4UW58
96"	12"	36"	2000 lb.	1PWZ8
Solid Top				
36"	12"	24"	700 lb.	1PXA9
48"	12"	24"	900 lb.	1PWZ6
66"	12"	24"	1400 lb.	1PXA7
96"	12"	24"	1800 lb.	1PXA4
96"	12"	36"	2700 lb.	1PXA2



Wire Shelf and 4 Posts



Wire Platform



All-Welded

GA GRAINGER APPROVED NEWAGE INDUSTRIAL

Wire and All-Welded Dunnage Racks

Open design promotes good air circulation and reduces dust and dirt buildup.

Wire—Shelf and post units include adjustable leveling feet to compensate for uneven floors and require assembly. Sturdy, 1-pc. platform style requires no assembly.

All-Welded—Welded tubular construction provides superior strength for extra-high load capacities and requires no assembly. All feet are permanently sealed welded aluminum caps. NSF Certified.

Finish	W	Dim. H	D	Load Cap.	Brand	Item No.
Wire Shelf and 4 Posts						
Chrome Plated	24"	14"	18"	800 lb.	GA	2HFX2
	36"	14"	24"	800 lb.	GA	2HFX3
Natural	36"	14"	24"	800 lb.	GA	2HFX5
Wire Platform						
Chrome Plated	36"	10½"	24"	1400 lb.	GA	2HFX6
	48"	10½"	24"	1400 lb.	GA	2HFX7
	60"	10½"	24"	1400 lb.	GA	2HFX8
All-Welded Aluminum						
Natural	24"	12"	18"	3200 lb.	New Age	16D665
	36"	8"	20"	2000 lb.	New Age	6TJH1
	36"	8"	24"	2000 lb.	New Age	6TJH7
	36"	12"	18"	3000 lb.	New Age	16D666
	36"	12"	20"	2000 lb.	New Age	6TJH4
	36"	12"	20"	3000 lb.	New Age	16D662
	36"	12"	24"	2000 lb.	New Age	6TJJ0
	48"	8"	20"	2000 lb.	New Age	6TJH2
	48"	8"	24"	2000 lb.	New Age	6TJH8
	48"	8"	24"	2500 lb.	New Age	16D661
	48"	12"	18"	2500 lb.	New Age	16D667
	48"	12"	20"	2000 lb.	New Age	6TJH5
	48"	12"	20"	2500 lb.	New Age	16D663
	48"	12"	24"	2000 lb.	New Age	6TJJ1
	60"	8"	20"	1500 lb.	New Age	6TJH3
	60"	8"	24"	1500 lb.	New Age	6TJH9
	60"	12"	18"	2000 lb.	New Age	16D668
	60"	12"	20"	1500 lb.	New Age	6TJH6
	60"	12"	20"	2000 lb.	New Age	16D664
	60"	12"	24"	1500 lb.	New Age	6TJJ2

Locker General Information

- 5- and 6-Tier—Multiple compartments in a small footprint
- 16-Person—16 individual compartments with common garment rod
- Wall-Mount—4 individual openings grouped horizontally

HALLOWELL®

Steel Wardrobe Lockers include: Single-Hat Shelf and Double-Tier: 1 double ceiling hook and 2 single hooks. Triple-Tier: 1 double ceiling hook. All have seamless stainless steel recessed handle and multipoint locking system. Steel Box Lockers include: single-point through-the-door padlock hasp/finger pull. Plastic and Wood (see page 1260).

GA

Wardrobe Lockers include: Single-Tier: 12" and 15"D models have 1 double ceiling hook, 2 single hooks, and hat shelf; 18" and 21"D models have 2 single hooks, hat shelf, and coat rod. Double-Tier: 1 double ceiling hook and 2 single hooks. Triple-Tier: 1 double ceiling hook. Recessed handle and multi-point locking system. Box Lockers include: 6-Tier: multiple compartments in a small footprint. 16-Person: 16 individual compartments with a common coat rod. Padlock hasp and finger-pull.

W	H	D	▶CHOOSE: Color	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Lockers					
(1) Wide, (1) Tier					
12"	66"	12"	Dark Gray, Tan	G3731	G3732
12"	66"	15"		G3733	G3734
12"	66"	18"		G3735	G3736
12"	78"	12"		G7188	G7189
12"	78"	15"		G7190	G7191
12"	78"	18"		G7192	G7193
15"	78"	15"		G3737	G3738
15"	78"	18"		G3739	G3740
15"	78"	21"	Tan	1ABY6	1AEF5
15"	78"	24"		1ABY7	1AEF6
18"	78"	18"	Dark Gray, Tan	G3741	G3742
18"	78"	21"		G3743	G3744
18"	78"	24"	Tan	1ABZ4	1AEG3
(3) Wide, (1) Tier					
36"	66"	12"	Dark Gray, Tan	G3745	G3746
36"	66"	15"		G3747	G3748
36"	66"	18"		G3749	G3750
36"	78"	12"		G7194	G7195
36"	78"	15"		G7196	G7197
36"	78"	18"		G7198	G7199
45"	78"	15"		G3751	G3752
45"	78"	18"		G3753	G3754
45"	78"	21"	Tan	1ABY9	1AEF8
45"	78"	24"		1ABZ1	1AEF9
54"	78"	18"	Dark Gray, Tan	G3755	G3756
54"	78"	21"		G3757	G3758
54"	78"	24"	Tan	1ABZ5	1AEG4
(1) Wide, (2) Tier					
12"	66"	12"	Dark Gray, Tan	G3759	G3760
12"	66"	15"		G3761	G3762
12"	66"	18"		G3763	G3764
12"	78"	12"		G7200	G7201
12"	78"	15"		G7202	G7203
12"	78"	18"		G7204	G7205
15"	78"	15"		G3765	G3766
15"	78"	18"		G3767	G3768
15"	78"	21"	Tan	1AEB1	1AEJ6
15"	78"	24"		1AEB2	1AEJ7
(3) Wide, (2) Tier					
36"	66"	12"	Dark Gray, Tan	G3769	G3770
36"	66"	15"		G3771	G3772
36"	66"	18"		G3773	G3774
36"	78"	12"		G7206	G7207
36"	78"	15"		G7208	G7209
36"	78"	18"		G7210	G7211
45"	78"	15"		G3775	G3776
45"	78"	18"		G3777	G3778
45"	78"	21"	Tan	1AEB4	1AEJ9
45"	78"	24"		1AEB5	1AEK1
(1) Wide, (3) Tier					
12"	78"	12"	Dark Gray, Tan	G7212	G7213
12"	78"	15"		G7214	G7215
12"	78"	18"		G7216	G7217
(3) Wide, (3) Tier					
36"	78"	12"	Dark Gray, Tan	G7218	G7219
36"	78"	15"		G7220	G7221
36"	78"	18"		G7222	G7223
Box Lockers					
(1) Wide, (5) Tier					
12"	66"	12"	Dark Gray, Tan	G3791	G3792
12"	66"	15"		G3793	G3794
12"	66"	18"		G3795	G3796
(3) Wide, (5) Tier					
36"	66"	12"	Dark Gray, Tan	G3797	G3798
36"	66"	15"		G3799	G3800
36"	66"	18"		G3801	G3802
(1) Wide, (6) Tier					
12"	78"	12"	Dark Gray, Tan	E1556	E1562
12"	78"	15"		E1557	E1563
12"	78"	18"		E1558	E1564
(3) Wide, (6) Tier					
36"	78"	12"	Dark Gray, Tan	E1559	E1565
36"	78"	15"		E1560	E1566
36"	78"	18"		E1561	E1567
Box Locker Unit with Coat Rod					
(6) Wide, (6) Tier					
72"	78"	18"	Dark Gray, Tan	G3803	G3804

Hallowell

Premium™ Steel Wardrobe and Box Lockers

- 24-ga. solid body
- 16-ga. frames
- 16-ga. louvered doors on wardrobe lockers, 18-ga. on box lockers
- 6"H legs, except wall-mount lockers
- Continuous piano hinge
- Powder-coated finish

Number plates and lock hole cover plate included. Optional sloping top, closed metal bases, and finished end panels to match locker front for exposed ends available on page 1254.

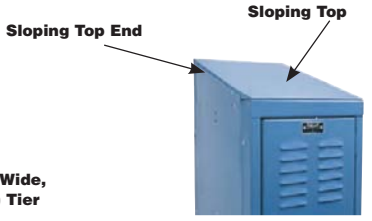


(3) Wide, (1) Tier



Box Locker Unit w/Coat Rod





(3) Wide, (2) Tier



(3) Wide, (3) Tier

Hallowell

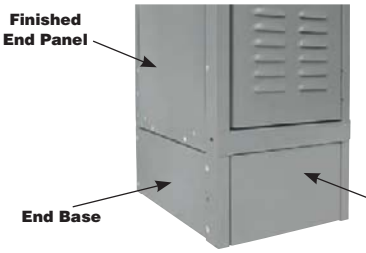
Decorative Premium™ Steel Wardrobe Lockers

All the features of Hallowell® Premium™ wardrobe lockers sold on page 1253.

W	H	D	Color	UNASSEMBLED Item No.	ASSEMBLED Item No.
(1) Wide, (1) Tier					
12"	78"	12"	Marine Blue	4HA79	4HB23
12"	78"	15"		4HA81	4HB25
12"	78"	18"		4HA83	4HB27
(1) Wide, (2) Tier					
12"	78"	12"	Marine Blue	4HB45	4HB67
12"	78"	15"		4HB47	4HB69
12"	78"	18"		4HB49	4HB71
(1) Wide, (3) Tier					
12"	78"	12"	Marine Blue	4HB85	4HE13
12"	78"	15"		4HB87	4HE15
12"	78"	18"		4HB89	4HE17
(3) Wide, (1) Tier					
36"	78"	12"	Marine Blue	4HA80	4HB24
36"	78"	15"		4HA82	4HB26
36"	78"	18"		4HA84	4HB28
(3) Wide, (2) Tier					
36"	78"	12"	Marine Blue	4HB46	4HB68
36"	78"	15"		4HB48	4HB70
36"	78"	18"		4HB50	4HB72
(3) Wide, (3) Tier					
36"	78"	12"	Marine Blue	4HB86	4HE14
36"	78"	15"		4HB88	4HE16
36"	78"	18"		4HB90	4HE18

W	H	D	Color	Item No.
Accessories				
Front Locker Bases				
12"	6"	—	Marine Blue	4HU29
End Locker Bases				
—	6"	12"	Marine Blue	4HU38
	6"	15"		4HU39
	6"	18"		4HU40
Finished End Panels				
—	72"	12"	Marine Blue	1AEU5
	72"	15"		1AEU6
	72"	18"		1AEU7
Sloping Top Ends				
—	4"	12"	Marine Blue	4HU64
	5"	15"		4HU65
	6"	18"		4HU66
Sloping Tops				
12"	4"	12"	Marine Blue	4HU53
	5"	15"		4HU54
	6"	18"		4HU55





Hallowell

Premium™ Steel Wardrobe and Box Locker Accessories

Sloping Tops—Easy bolt-on installation. Order 1 sloping top per locker; order 1 sloping top end per exposed row end.

Finished End Panels—Attach 18-ga. cold-rolled steel panels to exposed locker row ends to increase strength. Perimeter punched only.

Locker Bases—Front bases snap into place; end bases must be bolted. Order 1 front base per locker; order 1 end base per exposed row end.

W	H	D	▶CHOOSE: Color	Item No.
Sloping Tops				
12"	4"	12"	Tan, Dark Gray	G9592
	5"	15"		G9593
	6"	18"		G9594
15"	5"	15"		G3807
	6"	18"		G3808
	7"	21"	Tan	1AEN6
	8"	24"		1AEN7
18"	6"	18"	Tan, Dark Gray	G3809
	7"	21"		G3810
	8"	24"	Tan	1AEN9
Sloping Top Ends				
—	4"	12"	Tan, Dark Gray	G9595
	5"	15"		G9596
	6"	18"		G9597
	7"	21"		G3811
	8"	24"	Tan	1AEP1

W	H	D	▶CHOOSE: Color	Item No.
Finished End Panels				
—	60"	12"	Tan, Dark Gray	G3812
	60"	15"		G3813
	60"	18"		G3814
	72"	12"		E1568
	72"	15"		E1569
	72"	18"		E1570
	72"	21"		G3815
	72"	24"	Tan	1AET6
Front Locker Bases				
12"	6"	—	Tan, Dark Gray	G9598
15"	6"	—		G3816
18"	6"	—		G3817
End Locker Bases				
—	6"	12"	Tan, Dark Gray	G9599
	6"	15"		G9600
	6"	18"		G9601
	6"	21"		G3818
	6"	24"	Tan	1AER1



Pedestal Bench Top

Hallowell

Bench Tops and Pedestals

PEDESTAL BENCH TOPS

- Laminated hardwood tops with clear lacquer finish
- 1¼" thick x 9½"W

BENCH PEDESTALS

- Parchment powder-coated finish, except No. 14L053 stainless steel model
- Hardware for bench top mounting included; can also be floor mounted
- Order 2 pedestals per bench top



Steel Bench Pedestal



Stainless Steel Bench Pedestal

W	Item No.
Pedestal Bench Tops	
36"	2PGZ5
48"	2PGZ6
60"	2PGZ7
72"	2PGZ8
96"	2PGZ9

Description	W	H	D	Item No.
Bench Pedestals				
Cast-Iron	6"	16¾"	6"	2PHA3
Ht.-Adjustable, Steel w/Aluminum Base	8"	16¾"	8"	2PHA4
Portable, Aluminum	4"	16¾"	12"	2PHA5
Steel	8"	15⅞"	8"	14L052
Stainless Steel	15⅛"	16¼"	3"	14L053

Single-Point Locking Mechanism Steel Lockers

GA GRAINGER APPROVED

- 24-ga. solid body
- 16-ga. louvered doors and frame
- 6"H legs
- Powder-coated finish

Through-the-door, maintenance-free latching mechanism has no moving parts and includes a projecting finger-pull handle. Compatible with padlocks (not included). Single-tier models come with hat shelf.

W	H	D	UNASSEMBLED Tan Item No.	UNASSEMBLED Dark Gray Item No.	ASSEMBLED Tan Item No.	ASSEMBLED Dark Gray Item No.
(1) Wide, (1) Tier						
12"	78"	12"	4VFD2	4VFF2	4VFH2	4VFK2
12"	78"	15"	4VFD4	4VFF4	4VFH4	4VFK4
12"	78"	18"	4VFD6	4VFF6	4VFH6	4VFK6
(1) Wide, (2) Tier						
12"	78"	12"	4VFD8	4VFF8	4VFH8	4VFK8
12"	78"	15"	4VFE1	4VFG1	4VFJ1	4VFL1
12"	78"	18"	4VFE3	4VFG3	4VFJ3	4VFL3
(1) Wide, (3) Tier						
12"	78"	12"	4VFE5	4VFG5	4VFJ5	4VFL5
12"	78"	15"	4VFE7	4VFG7	4VFJ7	4VFL7
12"	78"	18"	4VFE9	4VFG9	4VFJ9	4VFL9
(3) Wide, (1) Tier						
36"	78"	12"	4VFD3	4VFF3	4VFH3	4VFK3
36"	78"	15"	4VFD5	4VFF5	4VFH5	4VFK5
36"	78"	18"	4VFD7	4VFF7	4VFH7	4VFK7
(3) Wide, (2) Tier						
36"	78"	12"	4VFD9	4VFF9	4VFH9	4VFK9
36"	78"	15"	4VFE2	4VFG2	4VFJ2	4VFL2
36"	78"	18"	4VFE4	4VFG4	4VFJ4	4VFL4
(3) Wide, (3) Tier						
36"	78"	18"	4VFF1	4VFH1	4VFK1	4JWU3
36"	78"	12"	4VFE6	4VFG6	4VFJ6	4VFL6
36"	78"	15"	4VFE8	4VFG8	4VFJ8	4VFL8



(3) Wide, (3) Tier

Maintenance-Free Quiet™ Steel Wardrobe Lockers

Hallowell

- 24-ga. solid body
- 16-ga. flush front doors
- 18-ga., 3"-wide, welded-in full-height door stiffener for maximum rigidity
- 11-ga. welded latch
- 6"H legs
- Continuous piano hinge
- Powder-coated finish

Lockers feature single-point through-the-handle latching system with no moving parts for quiet operation. Number plates are included. Accessories, including sloping tops, closed metal bases, and end panels, are available separately on page 1254.

W	H	D	UNASSEMBLED Tan Item No.	UNASSEMBLED Dark Gray Item No.	ASSEMBLED Tan Item No.	ASSEMBLED Dark Gray Item No.
(1) Wide, (1) Tier						
12"	78"	12"	2PFW3	2PFZ8	2PGF4	2PGJ9
	78"	15"	2PFW5	2PGC1	2PGF6	2PGK2
	78"	18"	2PFW7	2PGC3	2PGF8	2PGK4
15"	78"	15"	2PFW9	2PGC5	2PGG1	2PGK6
	78"	18"	2PFX2	2PGC7	2PGG3	2PGK8
18"	78"	18"	2PFX4	2PGC9	2PGG5	2PGL1
	78"	21"	2PFX6	2PGD2	2PGG7	2PGL3
(1) Wide, (2) Tier						
12"	78"	12"	2PFX8	2PGD4	2PGG9	2PGL5
	78"	15"	2PFY1	2PGD6	2PGH2	2PGL7
	78"	18"	2PFY3	2PGD8	2PGH4	2PGL9
15"	78"	15"	2PFY5	2PGE1	2PGH6	2PGN2
	78"	18"	2PFY7	2PGE3	2PGH8	2PGN4
18"	78"	18"	2PFY9	2PGE5	2PGJ1	2PGN6
(1) Wide, (3) Tier						
12"	78"	12"	2PFZ2	2PGE7	2PGJ3	2PGN8
	78"	15"	2PFZ4	2PGE9	2PGJ5	2PGP1
	78"	18"	2PFZ6	2PGF2	2PGJ7	2PGP3
(3) Wide, (1) Tier						
36"	78"	12"	2PFW4	2PFZ9	2PGF5	2PGK1
	78"	15"	2PFW6	2PGC2	2PGF7	2PGK3
	78"	18"	2PFW8	2PGC4	2PGF9	2PGK5
45"	78"	15"	2PFX1	2PGC6	2PGG2	2PGK7
	78"	18"	2PFX3	2PGC8	2PGG4	2PGK9
54"	78"	18"	2PFX5	2PGD1	2PGG6	2PGL2
	78"	21"	2PFX7	2PGD3	2PGG8	2PGL4
(3) Wide, (2) Tier						
36"	78"	12"	2PFX9	2PGD5	2PGH1	2PGL6
	78"	15"	2PFY2	2PGD7	2PGH3	2PGL8
	78"	18"	2PFY4	2PGD9	2PGH5	2PGN1
45"	78"	15"	2PFY6	2PGE2	2PGH7	2PGN3
	78"	18"	2PFY8	2PGE4	2PGH9	2PGN5
54"	78"	18"	2PFZ1	2PGE6	2PGJ2	2PGN7
(3) Wide, (3) Tier						
36"	78"	12"	2PFZ3	2PGE8	2PGJ4	2PGN9
	78"	15"	2PFZ5	2PGF1	2PGJ6	2PGP2
	78"	18"	2PFZ7	2PGF3	2PGJ8	2PGP4



(3) Wide, (3) Tier



(1) Wide, (2) Tier



(3) Wide, (3) Tier



Box Locker Unit with Coat Rod

Quick-Assembly Steel Wardrobe and Box Lockers and Accessories

GRAINGER APPROVED

- 22-ga. solid body
- 16-ga. louvered doors and frames; 16-ga. doors on box lockers
- 6"H legs
- Powder-coated finish
- Not all colors are available in all configurations; see Grainger.com® for current selection

Quick-Assembly Steel Wardrobe and Box Lockers—Box lockers are equipped with a padlock-hasp pull-handle. Wardrobe lockers include a steel-recessed, kickproof, vandal-resistant handle. Snap-together design assembles in minutes. Frame assembly requires no nuts or bolts.

Assembled Steel Wardrobe and Box Lockers—Steel construction with welded door frame provides a strong, rigid locker unit. 6-knuckle door hinges provide strong, trouble-free operation. Optional accessories sold separately, this page.

W	H	D	QUICK-ASSEMBLY Item No.	▶CHOOSE: Color	ASSEMBLED Item No.	▶CHOOSE: Color
Wardrobe Locker						
(1) Wide, (1) Tier						
12"	66"	12"	D7482	Tan	D4607	Gray, Tan, Blue
12"	66"	15"	—	—	D4609	
12"	66"	18"	—		D4612	
12"	78"	12"	D7488	Gray	D4614	
12"	78"	15"	D7491		D4616	
12"	78"	18"	F8315		D4618	
15"	78"	18"	F8313		D4619	
18"	78"	18"	D7493	Gray, Tan	D4621	
18"	78"	21"	D7495		D4625	
(1) Wide, (2) Tier						
12"	66"	12"	—	—	D4627	Gray, Tan, Blue
12"	66"	15"	—		D4629	
12"	66"	18"	—		D4632	
12"	78"	12"	—		D4634	
12"	78"	15"	D7511	Gray, Tan	D4636	
12"	78"	18"	—	—	D4638	
15"	78"	18"	—		D4639	
(1) Wide, (3) Tier						
12"	78"	12"	—	—	D4643	Gray, Tan, Blue
12"	78"	15"	D7517	Gray	D4645	
12"	78"	18"	—	—	D4647	
(3) Wide, (1) Tier						
36"	66"	12"	—	—	D4608	Gray, Tan, Blue
36"	66"	15"	—		D4611	
36"	66"	18"	—		D4613	
36"	78"	12"	—		D4615	
36"	78"	15"	—		D4617	
36"	78"	18"	F8314	Gray, Tan	D4622	
45"	78"	18"	F8312		D4623	
54"	78"	18"	D7494	Gray	D4624	
54"	78"	21"	D7496	Gray, Tan	D4626	
(3) Wide, (2) Tier						
36"	66"	12"	D7505	Gray, Tan	D4628	Gray, Tan, Blue
36"	66"	15"	—	—	D4631	
36"	66"	18"	—		D4633	
36"	78"	12"	F8349	Tan	D4635	
36"	78"	15"	D7512	Gray	D4637	
36"	78"	18"	F8323	Gray, Tan	D4641	
45"	78"	18"	D7514		D4642	
(3) Wide, (3) Tier						
36"	78"	12"	D7516	Gray	D4644	Gray, Tan, Blue
36"	78"	15"	—	—	D4646	
36"	78"	18"	D7521	Gray	D4648	
Box Locker Unit with Coat Rod						
(6) Wide, (6) Tier						
72"	78"	18"	—	—	D4656	Gray, Tan, Blue
Box Locker						
(1) Wide, (6) Tier						
12"	78"	12"	D7522	Tan	D4649	Gray, Tan, Blue
12"	78"	15"	—	—	D4652	
12"	78"	18"	F8363	Tan	D4654	
(3) Wide, (6) Tier						
36"	78"	12"	D7523	Gray, Tan	D4651	Gray, Tan, Blue
36"	78"	15"	D7525	Gray	D4653	
36"	78"	18"	F8362	Gray, Tan	D4655	

** Note: Sloping-top kits do not work with assembled units.*

W	D	▶CHOOSE: Color	Item No.
Single-Frame Sloping-Top Kits *			
12"	18"	Tan	F8356
15"	18"	Gray	2HFN3
Front Bases			
10⅛"	—	Gray, Tan	F8354
15"	—	Gray	F8353
18"	—	Tan	4RZR7
End Bases			
—	11"	Tan	F8352



(3) Wide, (2) Tier

Assembled Ready-Built™ II Steel Wardrobe and Box Lockers

Hallowell

- 24-ga. solid body
- 16-ga. frames
- 16-ga. louvered doors on wardrobe lockers, 18-ga. on box lockers
- Continuous piano hinge
- Powder-coated finish

Shipped fully assembled including master keyed combination padlocks, sloping top, and closed locker base. Padlocks with 3-number combinations for maximum security are included for each door. 6-tier models include aluminum strike plates to prevent padlocks from marring door finish.

W	H	D	▶CHOOSE: Color	Item No.
(1) Wide, (1) Tier				
12"	82"	12"	Tan, Dark Gray, Marine Blue	D4811
12"	83"	15"		D4813
12"	84"	18"		D4815
(1) Wide, (2) Tier				
12"	82"	12"	Tan, Dark Gray, Marine Blue	D4817
12"	83"	15"		D4819
12"	84"	18"		D4822
(1) Wide, (3) Tier				
12"	82"	12"	Tan, Dark Gray, Marine Blue	D4824
12"	83"	15"		D4826
12"	84"	18"		D4828
(1) Wide, (6) Tier				
12"	82"	12"	Tan, Dark Gray, Marine Blue	D4831
12"	83"	15"		D4833
12"	84"	18"		D4835

W	H	D	▶CHOOSE: Color	Item No.
(3) Wide, (1) Tier				
36"	82"	12"	Tan, Dark Gray, Marine Blue	D4812
36"	83"	15"		D4814
36"	84"	18"		D4816
(3) Wide, (2) Tier				
36"	82"	12"	Tan, Dark Gray, Marine Blue	D4818
36"	83"	15"		D4821
36"	84"	18"		D4823
(3) Wide, (3) Tier				
36"	82"	12"	Tan, Dark Gray, Marine Blue	D4825
36"	83"	15"		D4827
36"	84"	18"		D4829
(3) Wide, (6) Tier				
36"	82"	12"	Tan, Dark Gray, Marine Blue	D4832
36"	83"	15"		D4834
36"	84"	18"		D4836

Hallowell

Antimicrobial Steel Wardrobe Lockers

- 24-ga. solid body
- 16-ga. louvered doors and frames
- 6"H legs
- Stainless steel recessed handle with gravity lift type latching
- Continuous piano hinge
- Platinum powder-coated finish

Specially-formulated finish protects against bacteria, mold, yeast, and mildew for up to 20 yr. Ideal for environments where risk of bacterial infestation is high. Number plates included.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
(1) Wide, (1) Tier				
12"	78"	18"	1RZR7	1RZT8
15"	78"	18"	1RZR9	1RZU1
18"	78"	18"	1RZT2	1RZU3
(1) Wide, (2) Tier				
12"	78"	18"	1RZT4	1RZU5
15"	78"	18"	1RZT6	1RZU7
(3) Wide, (1) Tier				
36"	78"	18"	1RZR8	1RZT9
45"	78"	18"	1RZT1	1RZU2
54"	78"	18"	1RZT3	1RZU4
(3) Wide, (2) Tier				
36"	78"	18"	1RZT5	1RZU6
45"	78"	18"	1RZT7	1RZU8



(1) Wide, (2) Tier



(3) Wide, (6) Tier Box Lockers



(1) Wide, (1) Tier Wardrobe

(3) Wide, (2) Tier Wardrobe

304 Stainless Steel Lockers

Hallowell

- 24-ga. body
- 6"H legs
- 16-ga. louvered doors on single- and double-tier, 18 ga. for 6-tier

Sturdy, rust-resistant stainless steel construction. Suitable for food industry and outdoor applications.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Lockers				
(1) Wide, (1) Tier				
12"	78"	18"	14L054	14L066
18"	78"	18"	14L056	14L068
(1) Wide, (2) Tier				
12"	78"	18"	14L058	14L070
18"	78"	18"	14L060	14L072
(3) Wide, (1) Tier				
36"	78"	18"	14L055	14L067
54"	78"	18"	14L057	14L069
(3) Wide, (2) Tier				
36"	78"	18"	14L059	14L071
54"	78"	18"	14L061	14L073
Box Lockers				
(1) Wide, (6) Tier				
12"	78"	18"	14L062	14L074
18"	78"	18"	14L064	14L076
(3) Wide, (6) Tier				
36"	78"	18"	14L063	14L075
54"	78"	18"	14L065	14L077

Corrosion-Resistant Steel Lockers

Hallowell

- 24-ga. galvanneal steel solid body
- 16-ga. galvanneal steel doors on wardrobe lockers, 18-ga. on box lockers
- 16-ga. galvanneal steel frames
- 6"H legs
- Continuous piano hinge
- Parchment powder-coated finish

For high humidity and corrosion prone areas. Number plates and a lock hole cover plate included. Sloping tops and closed metal bases are available separately, see page 1254.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Locker				
(1) Wide, (1) Tier				
12"	78"	12"	4VED6	4HE47
12"	78"	15"	4VED8	4VEG3
12"	78"	18"	4VEE1	4HE49
(1) Wide, (2) Tier				
12"	78"	12"	4VEE3	4HE51
12"	78"	15"	4VEE5	4VEG5
12"	78"	18"	4VEE7	4HE53
(1) Wide, (3) Tier				
12"	78"	12"	4VEE9	4HE55
12"	78"	15"	4VEF2	4VEG7
12"	78"	18"	4VEF4	4HE57
(3) Wide, (1) Tier				
36"	78"	12"	4VED7	4HE48
36"	78"	15"	4VED9	4VEG4
36"	78"	18"	4VEE2	4HE50
(3) Wide, (2) Tier				
36"	78"	12"	4VEE4	4HE52
36"	78"	15"	4VEE6	4VEG6
36"	78"	18"	4VEE8	4HE54
(3) Wide, (3) Tier				
36"	78"	12"	4VEF1	4HE56
36"	78"	15"	4VEF3	4VEG8
36"	78"	18"	4VEF5	4HE58
Box Locker				
(1) Wide, (6) Tier				
12"	78"	12"	4VEF6	4HE59
12"	78"	15"	4VEF8	4VEG9
12"	78"	18"	4VEG1	4HE61
(3) Wide, (6) Tier				
36"	78"	12"	4VEF7	4HE60
36"	78"	15"	4VEF9	4VEH1
36"	78"	18"	4VEG2	4HE62



(3) Wide, (2) Tier Wardrobe Locker



(6) Wide, (6) Tier Box Locker Unit w/Coat Rod (Shown with optional metal base)

Hallowell

Transparent-Door Steel Lockers

- 24-ga. solid body
- 16-ga. doors on wardrobe lockers
- 6"H legs
- Parchment powder-coated finish

Wardrobe lockers feature see-through polycarbonate door inserts, while box lockers have a clear, injection-molded polycarbonate door. Both styles offer better security by discouraging contraband or weapon storage and inventory theft. Number plates included. Sloping tops and closed metal bases are sold separately on page 1254. Programmable Day Use models allow individuals to lock and unlock any available door with a user-selected 4-digit code. Locks operate with 2 AA batteries (included).

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Lockers				
(1) Wide, (1) Tier				
12"	78"	12"	4VEX2	4VFA5
12"	78"	15"	4VEX4	4VFA7
12"	78"	18"	4VEX6	4HE95
(1) Wide, (2) Tier				
12"	78"	12"	4VEX8	4HE97
12"	78"	15"	4VEY1	4HE99
12"	78"	18"	4VEY3	4HU11
(1) Wide, (3) Tier				
12"	78"	12"	4VEY5	4VFA9
12"	78"	15"	4VEY7	4VFC2
12"	78"	18"	4VEY9	4HU13
(3) Wide, (1) Tier				
36"	78"	12"	4VEX3	4VFA6
36"	78"	15"	4VEX5	4VFA8
36"	78"	18"	4VEX7	4HE96
(3) Wide, (2) Tier				
36"	78"	12"	4VEX9	4HE98
36"	78"	15"	4VEY2	4HU10
36"	78"	18"	4VEY4	4HU12
(3) Wide, (3) Tier				
36"	78"	12"	4VEY6	4VFC1
36"	78"	15"	4VEY8	4VFC3
36"	78"	18"	4VEZ1	4HU14
Box Lockers				
(1) Wide, (6) Tier				
12"	78"	12"	4VEZ2	4HU15
12"	78"	15"	4VEZ4	4HU17
12"	78"	18"	4VEZ6	4HU19
(3) Wide, (6) Tier				
36"	78"	12"	4VEZ3	4HU16
36"	78"	15"	4VEZ5	4HU18
36"	78"	18"	4VEZ7	4HU20
Programmable Day Use Box Lockers				
(1) Wide, (6) Tier				
12"	78"	12"	30LW46	30LW54
12"	78"	15"	30LW48	30LW56
12"	78"	18"	30LW50	30LW58
(3) Wide, (6) Tier				
36"	78"	12"	30LW47	30LW55
36"	78"	15"	30LW49	30LW57
36"	78"	18"	30LW51	30LW59
Wall Mount Box Locker				
(4) Wide, (1) Tier				
48"	14¾"	18"	—	4HU22
Programmable Day Use Wall Mount Box Lockers				
48"	14¾"	18"	30LW53	30LW61
Box Locker Unit with Coat Rod				
(6) Wide, (6) Tier				
72"	78"	18"	—	4HU21
Programmable Day Use Box Locker Unit with Coat Rod				
72"	78"	18"	30LW52	30LW60



(3) Wide, (3) Tier Wardrobe Locker



User-Programmable Electronic Lock

Hallowell

Keyless Electronic Day Use Steel Lockers

- All the features of Hallowell® Premium™ wardrobe and box lockers sold on page 1253, plus user-programmable electronic locks for shared use
- Parchment powder-coated finish

Allow individuals to lock and unlock any available door with a user-selected 4-digit code. Management has access with 2 levels of master codes. Lockers can also be programmed for single-use applications where code is needed only to open locker. Locks operate with 2 AA batteries (included). Number plates included.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Lockers				
(1) Wide, (1) Tier				
12"	78"	12"	2PGP5	2PGU2
12"	78"	15"	2PGP7	2PGU4
12"	78"	18"	2PGP9	2PGU6
(1) Wide, (2) Tier				
12"	78"	12"	2PGR2	2PGU8
12"	78"	15"	2PGR4	2PGV1
12"	78"	18"	2PGR6	2PGV3
(1) Wide, (3) Tier				
12"	78"	12"	2PGR8	2PGV5
12"	78"	15"	2PGT1	2PGV7
12"	78"	18"	2PGT3	2PGV9
(3) Wide, (1) Tier				
36"	78"	12"	2PGP6	2PGU3
36"	78"	15"	2PGP8	2PGU5
36"	78"	18"	2PGR1	2PGU7
(3) Wide, (2) Tier				
36"	78"	12"	2PGR3	2PGU9
36"	78"	15"	2PGR5	2PGV2
36"	78"	18"	2PGR7	2PGV4
(3) Wide, (3) Tier				
36"	78"	12"	2PGR9	2PGV6
36"	78"	15"	2PGT2	2PGV8
36"	78"	18"	2PGT4	2PGW1
Box Lockers				
(1) Wide, (6) Tier				
12"	78"	12"	2PGT5	2PGW2
12"	78"	15"	2PGT7	2PGW4
12"	78"	18"	2PGT9	2PGW6
(3) Wide, (6) Tier				
36"	78"	12"	2PGT6	2PGW3
36"	78"	15"	2PGT8	2PGW5
36"	78"	18"	2PGU1	2PGW7

Heavy-Duty Ventilated Steel Lockers

Hallowell

- 16-ga. ventilated body
- 14-ga. ventilated doors
- 18-ga. solid back
- 6"H legs
- Continuous piano hinge
- Gray powder-coated finish

Diamond-perforated front and sides provide maximum air flow. Lock hole cover plate and number plates included.

Accessories, including sloping tops and closed metal bases, are available separately on page 1254.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Lockers				
(1) Wide, (1) Tier				
12"	78"	12"	4VEH2	4VEK2
	78"	15"	4VEH4	4VEK4
	78"	18"	4HE63	4HE71
15"	78"	15"	4VEH6	4VEK6
	78"	18"	4HE65	4HE73
18"	78"	18"	4HE67	4HE75
	78"	21"	4HE69	4HE77
(1) Wide, (2) Tier				
12"	78"	12"	4VEH8	4VEK8
	78"	15"	4VEJ1	4VEL1
	78"	18"	4HE79	4HE85
15"	78"	15"	4VEJ3	4VEL3
	78"	18"	4HE81	4HE87
18"	78"	18"	4HE83	4HE89
	78"	21"	4VEJ5	4VEL5
(3) Wide, (1) Tier				
36"	78"	12"	4VEH3	4VEK3
	78"	15"	4VEH5	4VEK5
	78"	18"	4HE64	4HE72
45"	78"	15"	4VEH7	4VEK7
	78"	18"	4HE66	4HE74
54"	78"	18"	4HE68	4HE76
	78"	21"	4HE70	4HE78
(3) Wide, (2) Tier				
36"	78"	12"	4VEH9	4VEK9
	78"	15"	4VEJ2	4VEL2
	78"	18"	4HE80	4HE86
45"	78"	15"	4VEJ4	4VEL4
	78"	18"	4HE82	4HE88
54"	78"	18"	4HE84	4HE90
	78"	21"	4VEJ6	4VEL6
Box Lockers				
(1) Wide, (6) Tier				
12"	78"	12"	4VEJ7	4VEL7
	78"	15"	4VEJ9	4VEL9
	78"	18"	4HE91	4HE93
(3) Wide, (6) Tier				
36"	78"	12"	4VEJ8	4VEL8
	78"	15"	4VEK1	4VEN1
	78"	18"	4HE92	4HE94



(3) Wide, (6) Tier Box Locker

(1) Wide, (2) Tier Wardrobe Locker



(3) Wide, (1) Tier

Hallowell

Extra Heavy-Duty All-Welded Steel Quiet™ Ventilated Wardrobe Lockers

- 16-ga. body
- 14-ga. diamond-perforated doors with 3"W, full-height door stiffener for maximum rigidity
- 18-ga. solid back
- 11-ga. MIG-welded latch
- 16-ga. continuous piano hinge
- Gray powder-coated finish
- Fully assembled

Maintenance-free lockers feature single-point through-the-handle latching system with continuous vertical door strike at both hinge and latch side. No moving parts allow quiet operation. Number plates included.

W	H	D	Item No.
(1) Wide, (1) Tier			
12"	72"	12"	2PGY2
	72"	18"	2PGY4
18"	72"	18"	2PGY6
(1) Wide, (2) Tier			
12"	72"	12"	2PGY8
	72"	18"	2PGZ1
18"	72"	18"	2PGZ3
(3) Wide, (1) Tier			
36"	72"	12"	2PGY3
	72"	18"	2PGY5
54"	72"	18"	2PGY7
(3) Wide, (2) Tier			
36"	72"	12"	2PGY9
	72"	18"	2PGZ2
54"	72"	18"	2PGZ4



(1) Wide, (2) Tier



Double-Tier, 3 Wide

★GA GRAINGER APPROVED

Ventilated Steel Wardrobe Lockers

- 16-ga. ventilated doors and 16-ga. ventilated sides
- 6"H legs
- Powder-coated finish

Welded door frame provides a strong, rigid locker unit. Combines security, visibility, and optimal air flow. Features diamond-shaped front and side perforations. See page 1256 for optional accessories for unassembled units.

Unassembled

- Snap-together design assembles in minutes

W	H	D	▶CHOOSE: Color	UNASSEMBLED Item No.		ASSEMBLED Item No.
(1) Wide, (1) Tier						
12"	78"	18"	Gray, Tan	F8361	*	D7532
15"	78"	18"	Gray, Tan	—		D7533
(1) Wide, (2) Tier						
12"	78"	18"	Gray, Tan	F8359	*	D7536
15"	78"	18"	Gray, Tan	—		D7537
(3) Wide, (1) Tier						
36"	78"	18"	Gray, Tan	F8360	*	D7534
45"	78"	18"	Gray, Tan	D7528	*	D7535
(3) Wide, (2) Tier						
36"	78"	18"	Gray, Tan	F8358		D7538
45"	78"	18"	Gray, Tan	D7531	*	D7539

** Not available in Tan.*



(1) Wide, (6) Tier Box Locker

Hallowell

VersaMax™ Phenolic Wardrobe and Box Lockers

- Phenolic construction
- 5/16"-thick sides and backs; 3/8"-thick tops, bottoms, and shelves; 1/2"-thick doors

Non-porous surface eliminates the ability for mold, bacteria, and mildew to grow; ideal for wet environments. Graffiti- and water-resistant and easy to clean. Prepared for padlock (not included) or electronic lock. Frameless design maximizes clear opening.

W	H	D	PADLOCK HASP Item No.	ELECTRONIC KEYPAD Item No.
Wardrobe Locker				
(1) Wide, (1) Tier				
12"	72"	18"	38Y843	38Y851
(1) Wide, (2) Tier				
12"	72"	18"	38Y845	38Y853
Box Locker				
(1) Wide, (6) Tier				
12"	72"	18"	38Y847	38Y855
Wardrobe Z Locker				
(1) Wide, (2) Tier				
12"	72"	18"	38Y849	38Y857



(1) Wide, (1) Tier Wardrobe Locker



(1) Wide, (6) Tier Box Locker



(1) Wide, (2) Tier Z Locker



(1) Wide, (2) Tier Z Locker

Hallowell

Antimicrobial AquaMax™ Plastic Wardrobe Lockers

- High-density polyethylene construction
- Microbiocidal to help prevent the spread of bacteria
- 3/8"-thick locker body; 1/2"-thick doors

Provide permanent protection against bacteria, MRSA, Staph, and E. Coli in applications where the spread of microbes is a concern. Ideal for use in healthcare facilities and locker rooms. Frameless design maximizes clear opening. Easy-to-clean lockers are impact- and dent-resistant; will never rust and are resistant to most common chemicals. Wardrobe doors have a surface-mounted lift handle with padlock lug and multiple point latching (padlock not included).

Locker Configuration	W	H	D	Item No.
Wardrobe Locker				
(1) Wide, (1) Tier	12"	72"	18"	38Y837
(1) Wide, (2) Tier	12"	72"	18"	38Y839
Wardrobe Z Locker				
(1) Wide, (2) Tier	12"	72"	18"	38Y841

Heavy-Duty Assembled Plastic Wardrobe and Box Lockers

Hallowell

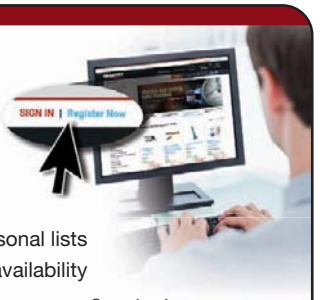
- High-density polyethylene solid plastic construction
- Locker body is 3/8" thick; doors are 1/2" thick

Wardrobe lockers feature surface-mounted solid plastic handle with padlock hasp, gravity lift locking system, and 2 single hooks per opening; single, double and 2 tier models. Box lockers feature single point padlock hasp and pull handle (padlock not included).

W	H	D	TAUPE Item No.	TAUPE BODY, BLUE DOORS Item No.
Wardrobe Locker				
(1) Wide, (1) Tier				
12"	72"	18"	16X108	16X110
(1) Wide, (2) Tier				
12"	72"	18"	16X112	16X114
(1) Wide, (3) Tier				
12"	72"	18"	16X116	16X118
Box Locker				
(1) Wide, (6) Tier				
12"	72"	18"	16X120	16X122
Wardrobe Z Locker				
(1) Wide, (2) Tier				
12"	72"	18"	16X124	16X126

REGISTER NOW!

Enjoy These Features & More!



- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com**® today!

Hallowell

Cubix™ Lockers

- 16-ga. knockdown body
- 16-ga. continuous piano hinges
- Powder-coated finish

Backs have keyhole punching for easy wall mounting and top, bottom, sides, and backs are prepunched to attach to other Cubix lockers. 18-ga. doors are solid and nonvented or diamond perforated for increased airflow. Finger-pull latch is ready for padlock (sold separately).



No. 30LW67



No. 30LW62

Locker Door Type	W	H	D	UNASSEMBLED Blue Item No.	UNASSEMBLED Black Item No.	UNASSEMBLED Light Gray Item No.
Prepared for Padlock (Padlock Not Included)						
(1) Wide, (1) Tier						
Ventilated	11 5/16"	12 11/16"	12"	30LW62	30LW63	30LW64
Solid	11 5/16"	12 11/16"	12"	30LW65	30LW66	30LW67
Clearview	11 5/16"	12 11/16"	12"	30LW68	30LW69	30LW70
With Built-In Key Lock						
(1) Wide, (1) Tier						
Ventilated	11 5/16"	12 11/16"	12"	30LW71	30LW72	30LW73
Solid	11 5/16"	12 11/16"	12"	30LW74	30LW75	30LW76
Clearview	11 5/16"	12 11/16"	12"	30LW77	30LW78	30LW79

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Locking Cell Phone Lockers

- A doors are 6½"W x 5¼"H
- B doors are 13"W x 5¼"H
- Combination have 12 A doors and 4 B doors



(5) Wide, (5) Tier

Can safely store and secure cameras, cell phones, keys, tablet PCs, wallets, and other personal items. Aluminum construction with a durable powder-coated finish. Surface or counter-top mounting. Resettable combination locks can be set to a fixed combination, or a combination that resets after each use. Master keyed locks include 3 keys and allow access to all compartments with a master control key.

W	H	D	▶CHOOSE: Color	RESETTABLE COMBINATION Item No.	KEYED Item No.
A-Doors					
(3) Wide, (5) Tier					
24"	31"	9¼"	Aluminum, Bronze, Gold, Sand	G3235	G3240
(4) Wide, (5) Tier					
30½"	31"	9¼"	Aluminum, Bronze, Gold, Sand	G3233	G3238
(5) Wide, (5) Tier					
37"	31"	9¼"	Aluminum, Bronze, Gold, Sand	G3232	G3237
B-Doors					
(2) Wide, (5) Tier					
30½"	31"	9¼"	Aluminum, Bronze, Gold, Sand	G3236	G3241
Combination Doors					
(4) Wide, (5) Tier					
30½"	31"	9¼"	Aluminum, Bronze, Gold, Sand	G3234	G3239

GRAINGER APPROVED

Cell Phone Lockers

Store cell phones, keys, wallets, and other personal items. Easy to assemble. Can accommodate a padlock (sold separately).



(3) Wide, (10) Tier

Locker Configuration	W	H	D	GRAY Item No.	TAN Item No.	BLUE Item No.
(1) Wide, (10) Tier	9"	66 5/8"	9"	10Y618	10Y619	10Y620
(3) Wide, (10) Tier	27"	66"	9"	10Y621	—	—
(3) Wide, (10) Tier	27"	66 5/8"	9"	—	10Y622	10Y623

Hallowell

Black Tie™ Lockers

- 16-ga. hinges
- Black body and frame
- Powder-coated finish

Sturdy, knockdown 24-ga. body with 16-ga. wardrobe doors and 18-ga. box doors. Louvered for ventilation. Continuous piano-type hinges. Stainless steel recessed handle with multipoint gravity lift type on wardrobe doors. Box doors have friction catch finger-pull handle.



No. 35UW59



No. 35UW88

W	H	D	UNASSEMBLED Black Item No.	UNASSEMBLED Light Gray/Black Item No.	UNASSEMBLED Red/Black Item No.	ASSEMBLED Black Item No.	ASSEMBLED Light Gray/Black Item No.	ASSEMBLED Red/Black Item No.
Wardrobe Locker								
(1) Wide, (1) Tier								
12"	72"	18"	35UW44	35UW45	35UW46	35UW68	35UW69	35UW70
(1) Wide, (2) Tier								
12"	72"	18"	35UW47	35UW48	35UW49	35UW71	35UW72	35UW73
(1) Wide, (3) Tier								
12"	72"	18"	35UW50	35UW51	35UW52	35UW74	35UW75	35UW76
(3) Wide, (1) Tier								
36"	72"	18"	35UW56	35UW57	35UW58	35UW80	35UW81	35UW82
(3) Wide, (2) Tier								
36"	72"	18"	35UW59	35UW60	35UW61	35UW83	35UW84	35UW85
(3) Wide, (3) Tier								
36"	72"	18"	35UW62	35UW63	35UW64	35UW86	35UW87	35UW88
Box Locker								
(1) Wide, (6) Tier								
12"	72"	18"	35UW53	35UW54	35UW55	35UW77	35UW78	35UW79
(3) Wide, (6) Tier								
36"	72"	18"	35UW65	35UW66	35UW67	35UW89	35UW90	35UW91



(1) Wide, (3) Tier



(3) Wide, (4) Tier

Hallowell

Charging Station Lockers

Lockers charge laptops and other electronic devices while keeping items secure with electronic access doors. Each unit features side ventilation for max. airflow while still keeping your items safe and secure. Powder-coated, 16-ga. cold rolled sheet steel with 14-ga. solid sheet steel door. Include built-in channel with electrical outlet punch outs for concealed aftermarket wiring to convert lockers to charging stations. Also include electronic, code access locking handle.

W	H	D	UNASSEMBLED Item No.	ASSEMBLED Item No.
Wardrobe Locker				
(1) Wide, (3) Tier				
15"	78"	18"	30LW09	30LW25
	78"	21"	30LW11	30LW27
18"	78"	18"	30LW13	30LW29
	78"	21"	30LW15	30LW31
(3) Wide, (3) Tier				
45"	78"	18"	30LW10	30LW26
	78"	21"	30LW12	30LW28
54"	78"	18"	30LW14	30LW30
	78"	21"	30LW16	30LW32
Box Locker				
(1) Wide, (4) Tier				
15"	78"	18"	30LW17	30LW33
	78"	21"	30LW19	30LW35
18"	78"	18"	30LW21	30LW37
	78"	21"	30LW23	30LW39
(3) Wide, (4) Tier				
45"	78"	18"	30LW18	30LW34
	78"	21"	30LW20	30LW36
54"	78"	18"	30LW22	30LW38
	78"	21"	30LW24	30LW40



Gear Locker No. H5127

Hallowell

Rookie™ KD Steel Team/ Gear Lockers

- 16-ga. ventilated body
- 14-ga. doors
- 18-ga. solid backs

Upper security box has finger-pull padlock hasp. Lockers include number plate, hat shelf, 2 single hooks, and stainless steel coat rod. Padlocks sold separately.

W	H	D	▶CHOOSE: Color	UNASSEMBLED Item No.	ASSEMBLED Item No.
Gear Locker with Shelf					
24"	72"	18"	Red, Blue	**H5121**	**H5129**
24"	72"	22"	Red, Blue	**H5122**	**H5130**
Gear Locker with Security Box					
24"	72"	18"	Red, Blue	**H5123**	**H5131**
24"	72"	22"	Red, Blue	**H5124**	**H5132**
Gear Locker with Foot Locker					
24"	72"	18"	Red, Blue	**H5125**	**H5133**
24"	72"	22"	Red, Blue	**H5126**	**H5134**
Gear Locker with Security Lock and Foot Locker					
24"	72"	18"	Red, Blue	**H5127**	**H5135**
24"	72"	22"	Red, Blue	**H5128**	**H5136**



Single-Tier Starter

Double-Tier Starter

Hallowell

Bulk Storage Lockers

Provide durable security for larger items. 16-ga., ½" flattened expanded metal construction with heavy-gauge channels and angles. Doors are hinged with 13-ga., 7-knuckle butt hinges. Light gray powder-coated finish.

LOCKER TOPS

Recommended for use where ceiling height is 12" or more above locker height. Include 16-ga. rear angle for increased rigidity.

LOCKER BACKS

Required for use between back-to-back units, or where locker backs are away from walls.

Overall Width	Overall Depth	Overall Height	STARTER Item No.	ADD-ON Item No.
Bulk Storage Lockers				
Single-Tier				
36"	36"	90"	**5JML8**	**5JML9**
	48"	90"	**5JMN0**	**5JMN1**
	60"	90"	**5JMN2**	**5JMN3**
48"	36"	90"	**5JMN4**	**5JMN5**
	48"	90"	**5JMN6**	**5JMN7**
	60"	90"	**5JMN8**	**5JMN9**
Double-Tier				
36"	36"	90"	**5JMP0**	**5JMP1**
	48"	90"	**5JMP2**	**5JMP3**
	60"	90"	**5JMP4**	**5JMP5**
48"	36"	90"	**5JMP6**	**5JMP7**
	48"	90"	**5JMP8**	**5JMP9**
	60"	90"	**5JMR0**	**5JMR1**

W	D	Item No.
Locker Top		
36"	36"	**5JMR2**
	48"	**5JMR3**
	60"	**5JMR4**
48"	36"	**5JMR5**
	48"	**5JMR6**
	60"	**5JMR7**
Overall W	**Overall Height**	**Item No.**
Locker Back		
36"	90"	**5JMR8**
48"	90"	**5JMR9**



(1) Wide, (1) Tier

GA GRAINGER APPROVED

Snap-Together Lockers

- Steel construction
- Powder-coated finish

Feature a recessed handle and built-in lock with 2-pt. locking system. Include 2 keys. Doors have vented holes for air circulation. All lockers have a coat rod, door hook, and lower removable shelf. Single-tier lockers also include a hat shelf.

W	H	D	GRAY Item No.	PUTTY Item No.	BLACK Item No.
(1) Wide, (1) Tier					
12"	72"	18"	**4MUU5**	**4MUU9**	**4MUV4**
(3) Wide, (1) Tier					
36"	72"	18"	**4MUU6**	**4MUV5**	—
(1) Wide, (2) Tier					
12"	72"	18"	**4MUU7**	**4MUV2**	**4MUV6**
(3) Wide, (2) Tier					
36"	72"	18"	**4MUU8**	**4MUV3**	**4MUV7**



Hallowell

Visibility Locker

- 13-ga. flattened expanded metal sides and back
- Four 16-ga. welded-in metal shelves
- Light gray powder-coated finish

Provides durable storage with full content visibility from all sides. All-welded galvanneal, corrosion-resistant sheet steel construction. Doors are 14-ga. diamond perforated, reinforced, with heavy-duty butt hinges.

Note: Lock not included. See Index under "Locks" or go to Grainger.com®.

W	D	H	No. of Shelves	Item No.
18"	18"	74¾"	4	**1AEL7**



2-Shelf Unit

LITTLE GIANT

Bulk Storage Lockers

- 13-ga. expanded metal with ¾" x 1½" diamond-shaped openings
- 72" interior height, 78" overall height
- Ship assembled

Secure, visible storage for large and bulky items. Each door opens a full 270° and features a padlockable slide latch (padlock not included). Easy-to-move using forklift or pallet truck with handy 4" underclearance.

Overall Width	Overall Depth	Overall Height	1-Shelf Unit Item No.	2-Shelf Unit Item No.	Without Shelves Item No.
49"	33"	78"	**20WT96**	**20WU08**	**20WU15**
60"	33"	78"	—	—	**20WU16**
61"	33"	78"	**20WT97**	**20WU09**	—
72"	33"	78"	—	—	**20WU17**
73"	33"	78"	**20WT98**	**20WU10**	—

Modular Storage Cabinets Drawer Compartment Information

For modular storage cabinets, see example table below to help identify drawer compartment information.

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	▶CHOOSE: Color	Item No.
30" Modular Drawer Cabinets						
37"	8	176	(5) 24, (2) 20, (1) 16	(5) 2¼", (2) 3¾", (1) 5¼"	Black, Dark Blue, Light Gray	G8297

How tall is the unit? — **How many drawers does the unit contain?** — **How many compartments are in the whole unit?** — **How many compartments are in each drawer?** — **How tall is the usable space in each drawer?**

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	▶CHOOSE: Color	Item No.
30" Mobile Modular Drawer Cabinets						
35"	4	100	(1) 48, (2) 20, (1) 12	(1) 2¼", (1) 3¾", (1) 4½", (1) 10"	Bright Blue	4TT08
33"	5	64	(1) 28, (2) 15, (1) 12, (1) 9	(1) 2¼", (1) 3", (1) 3¾", (1) 5¼", (1) 8½"	Bright Blue	4KC71
		72	(2) 24, (1) 20, (1) 16, (1) 12	(1) 2¼", (1) 3", (1) 3¾", (1) 5¼", (1) 8½"	Bright Blue	4KC83
	6	56	(3) 24, (2) 20, (1) 12	(1) 2¼", (1) 3", (1) 3¾", (1) 7"	Bright Blue	4KC81
30" Modular Drawer Cabinets						
59"	5	37	(1) 12, (3) 8, (1) 1	(1) 7", (1) 8½", (1) 13¼", (2) 8½"	Black, Dark Blue, Light Gray	G8306
	6	57	(1) 16, (2) 12, (2) 8, (1) 1	(1) 7", (1) 11¾", (2) 6¼", (2) 8½"	Black, Dark Blue, Light Gray	G8305
	7	70	(2) 16, (2) 12, (3) 8	(1) 5¼", (6) 7"	Black, Dark Blue, Light Gray	J4647
	8	104	(1) 20, (2) 16, (3) 12, (2) 8	(6) 5¼", (2) 7"	Black, Dark Blue, Light Gray	G8304
		100	(1) 20, (2) 16, (2) 12, (3) 8	(2) 3¾", (3) 5¼", (2) 7", (1) 8½"	Dark Blue	36NL32
	9	156	(4) 20, (4) 16, (1) 12	(4) 3¾", (4) 5¼", (1) 8½"	Black, Dark Blue, Light Gray	G8302
		144	(1) 24, (2) 20, (3) 16, (2) 12, (1) 8	(2) 3¾", (2) 4½", (2) 6¼", (3) 5¼"	Black, Dark Blue, Light Gray	G8303
	10	184	(6) 20, (4) 16	(6) 3¾", (4) 5¼"	Black, Dark Blue, Light Gray	G8300
		188	(2) 24, (4) 20, (3) 16, (1) 12	(2) 2¼", (4) 3¾", (3) 5¼", (1) 8½"	Black, Dark Blue, Light Gray	G8301
	13	256	(1) 32, (3) 24, (4) 20, (3) 16, (2) 12	(7) 2¼", (5) 3¾", (1) 7"	Black, Dark Blue, Light Gray	G8296
	15	360	(7) 24, (8) 24	(7) 2¼", (8) 3"	Black, Dark Blue, Light Gray	G8290
44"	6	96	(2) 20, (2) 16, (2) 12	(1) 3¾", (1) 4½", (2) 5¼", (2) 7"	Black, Dark Blue, Light Gray	G8299
	7	114	(1) 32, (2) 20, (1) 16, (1) 12, (1) 8, (1) 6	(1) 2¼", (1) 3", (1) 5¼", (2) 3¾", (2) 7"	Black, Dark Blue, Light Gray	G8292
	9	222	(2) 40, (1) 4, (4) 30, (2) 9	(4) 2¼", (1) 3", (2) 3¾", (2) 5¼"	Black, Dark Blue, Light Gray	G8294
		231	(1) 48, (1) 32, (1) 16, (2) 36, (2) 25, (1) 9, (1) 4	(5) 2¼", (2) 3¾", (1) 4½", (1) 7"	Black, Dark Blue, Light Gray	G8295
	11	448	(2) 50, (2) 30, (1) 96, (1) 48, (2) 36, (2) 16, (1) 40	(7) 2¼", (3) 3", (1) 3¾"	Black, Dark Blue, Light Gray	G8293
37"	6	112	(4) 20, (2) 16	(4) 3¾", (2) 5¼"	Black, Dark Blue, Light Gray	G8298
	8	176	(5) 24, (2) 20, (1) 16	(5) 2¼", (2) 3¾", (1) 5¼"	Black, Dark Blue, Light Gray	G8297
45" Extra-Wide Modular Cabinets						
59"	7	110	(1) 20, (6) 15	(1) 5¼", (6) 7"	Black, Dark Blue, Light Gray	G8284
	9	170	(7) 20, (2) 15	(4) 3¾", (3) 5¼", (2) 7"	Black, Dark Blue, Light Gray	G8285
		57	(4) 24, (4) 18, (1) 15	(4) 3¾", (4) 5¼", (1) 8½"	Dark Blue	36NL31
60" Double-Wide Modular Cabinets						
59"	7	132	(1) 24, (6) 18	(1) 5¼", (6) 7"	Black, Dark Blue, Light Gray	G8282
	9	220	(4) 28, (3) 24, (2) 18	(4) 3¾", (3) 5¼", (2) 7"	Black, Dark Blue, Light Gray	G8283
60" Stationary Work Centers						
44"	13	232	(1) 28, (2) 30, (2) 20, (4) 16, (2) 12, (2) 8	(4) 2½", (5) 3¾", (2) 5¼", (2) 10"	Black, Dark Blue, Light Gray	G8288
37"	10	166	(1) 28, (1) 30, (3) 16, (2) 12, (2) 8, (1) 20	(2) 3", (5) 3¾", (1) 5¼", (1) 7", (1) 10"	Black, Dark Blue, Light Gray	G8287

W	H	D	No. of Cabinet Shelves	Shelf Cap.*	▶CHOOSE: Color	Item No.
Overhead Storage Cabinet						
30"	31"	27¾"	2	400 lb.	Black, Gray, Dark Blue	G8289
Extra Wide Overhead Cabinet						
45"	31"	27¾"	2	400 lb.	Black, Gray, Dark Blue	G8286
Double Wide Overhead Cabinet						
60"	31"	27¾"	2	400 lb.	Black, Gray, Dark Blue	G8281

** Based on evenly distributed loads.*



30"W Modular Drawer Cabinet





60"W Stationary Workcenter Cabinet

Extra-Wide Overhead Cabinet

Vidmar

Stanley® Vidmar® Modular Storage Cabinets

- 400-lb. capacity per drawer, based on evenly distributed loads
- All-welded steel; powder-coated finish
- Single key locking system
- Shipped with drawer partitions installed
- All cabinets are 27¾" deep

Adjustable partitions and dividers allow configuring compartments to meet specific needs. Fully extendable drawers are guaranteed against failure.

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





For Modular Cabinet Compartment Information, see page 1263.



28¼"W Modular Drawer Cabinet, Bright Blue No. G8230



28¼"W Modular Drawer Cabinet, Classic Blue No. G8232

Modular Storage Cabinets

LISTA

- 440-lb. capacity per drawer, based on evenly distributed loads
- All-welded steel, powder-coated finish
- Built-in drawer locking system includes 2 keys
- 28¼"W cabinets are 28½"D; 40¼"W cabinets are 22½"D

Full-extension drawers provide full access, while included drawer dividers allow creating custom compartments. Unique PrevenTip® locking system allows only 1 open drawer at a time. Flush full-width recessed handles. Hinged handle label holder and printable labels included.

Additional dividers available; call 1-800-GRAINGER (472-4643).

OPEN-FRONT

Stack on top of cabinets. No. G8246 fits on single extra-wide cabinets; No. G8240 fits on 2 side-by-side standard-width cabinets. Stationary bottom shelf has 1½" lips on both sides. Center shelf adjusts in 1" increments.

Additional dividers available; call 1-800-GRAINGER (472-4643).

SLIDING-DOOR

Allow easy access to items on shelves, while providing secure storage with lockable door. No. G8248 fits on single extra-wide cabinets to save floor space, or use as a counter unit and No. G8239 fits top of 2 side-by-side standard-width cabinets.

Additional dividers available; call 1-800-GRAINGER (472-4643).



Open-Front Shelf Cabinet, Bright Blue No. G8246



Sliding-Door Shelf Cabinet, Light Gray No. G8239

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	▶CHOOSE: Color	Item No.
22¼" Width Modular Drawer Cabinet						
33½"	5	53	—	(2) 2¼", (1) 3¼", (1) 5¼", (1) 7¼"	Bright Blue	1VD84
28¼" Width Modular Drawer Cabinet						
59½"	8	88	(6) 12, (2) 8	(6) 5", (1) 7", (1) 9"	Bright Blue, Classic Blue, Light Gray	G8234
	9	124	(9) 12, (9) 16	(9) 5"		G8235
	10	206	(3) 30, (3) 20, (2) 16, (2) 12	(6) 4", (4) 5"		J5880
	11	172	(4) 20, (4) 16, (2) 12, (1) 4	(4) 2", (4) 4", (2) 5", (1) 9"		G8236
	12	210	(4) 24, (3) 20, (3) 12, (2) 9	(4) 2", (3) 3", (5) 5"		G8237
		264	(4) 30, (4) 20, (4) 16	(6) 3", (6) 4"		J5881
	13	273	(4) 30, (4) 20, (4) 16, (1) 9	(4) 2", (4) 3", (4) 4", (1) 5"		J5883
	14	282	—	(6) 2", (6) 3", (2) 5"		E8513
	15	300	(15) 20	(7) 2", (7) 3", (1) 4"		G8238
41¾"	5	61	(3) 16, (1) 9, (1) 4	(3) 5", (1) 7", (1) 9"		G8230
	7	114	(4) 20, (1) 16, (1) 9	(2) 2", (2) 3", (1) 5", (2) 7"		G8231
	9	154	(2) 20, (2) 24, (3) 16, (2) 9	(4) 2", (3) 3", (2) 5"		G8232
	10	210	(2) 36, (2) 24, (2) 20, (2) 16, (2) 9	(4) 2", (6) 3"		G8233
40¼" Width Modular Drawer Cabinet						
59½"	7	66	(3) 12, (1) 12, (1) 6, (2) 6	(3) 5", (2) 7", (2) 9"	Bright Blue, Classic Blue, Light Gray	G8244
	8	126	(5) 18, (3) 12	(5) 5", (3) 7"		J5884
	9	105	(3) 15, (4) 12, (2) 6	(3) 3", (3) 5", (3) 7"		F9092
	10	159	(2) 21, (3) 18, (3) 15, (1) 12, (1) 6	(2) 2", (3) 3", (3) 5", (1) 7", (1) 9"		G8245
		177	(3) 21, (5) 18, (2) 12	(6) 4", (4) 5"		J5885
	12	204	(4) 21, (4) 18, (4) 12	(6) 3", (6) 4"		J5886
	13	312	(4) 36, (4) 21, (4) 18, (1) 12	(4) 2", (4) 3", (4) 4", (1) 5"		J5887
41¾"	5	57	(2) 15, (1) 12, (1) 9, (1) 6	(3) 5", (1) 7", (1) 9"		G8243
	7	96	(2) 18, (2) 15, (2) 12, (1) 6	(4) 3", (2) 5", (1) 7"		G8242
	9	117	(2) 18, (3) 15, (2) 12, (2) 6	(4) 2", (3) 3", (2) 5"		G8241

W	H	D	No. of Cabinet Shelves	Shelf Cap.*	▶CHOOSE: Color	Item No.
Base Cabinet						
40¼"	33½"	22½"	2	440 lb.	Light Gray, Classic Blue, Bright Blue	G8246
56½"	33½"	28½"	2			G8240
40¼"	41¾"	22½"	3			G8248
56½"	41¾"	28½"	2		Light Gray, Classic Blue	G8239

**** Based on evenly distributed loads.***



No. 2HFP4



No. 2HFP5



No. 2HFP6

GA GRAINGER APPROVED

Modular Storage Cabinets

- 320-lb. capacity per drawer, based on evenly distributed loads
- All-welded steel; powder-coated finish: black with red drawers
- Right-side locking system secures all drawers with 2 keys (included)
- All cabinets measure 28"W x 28¼"D

Full drawer extension allows complete access to contents. Adjustable drawer dividers are included to create smaller compartments as needed. Ball-bearing telescoping slide suspension enables smooth drawer opening and closing. Large, full-width handles provide space for included labels.

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	Item No.
62¼"	9	90	(6) 9, (3) 12	(2) 2¾", (4) 4¾", (3) 6¾"	2HFP5
	13	117	(13) 9	(11) 2¾", (2) 4¾"	2HFP6
44¾"	7	66	(6) 9, (1) 12	(3) 2¾", (3) 4¾", (1) 6¾"	2HFP4

LYON®

Modular Storage Cabinets

- 400-lb. capacity per drawer, based on evenly distributed loads
- Steel construction with powder-coated finish
- All cabinets are 28¼" deep

Flexible, high-density storage saves floor space and reduces storage footprint up to 50%. Ergonomic drawer handles with labels and shields for easy access and part identification. Feature single wall drawer construction and independent suspension on fully-extendable drawers. Slotted interior drawer walls compartmentalize and organize parts. Key lockable.



22 13/16"W, Putty



22 13/16"W, Dove Gray

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	▶CHOOSE: Color	SINGLE DRAWER ACCESS Item No.	MULTIPLE DRAWER ACCESS Item No.
22¾"W Modular Drawer Cabinets							
33¼"	6	108	(1) 24, (2) 20, (2) 16, (1) 12	(2) 2¼", (1) 3", (2) 3¾", (1) 7"	Putty, Dove Gray	G8560	G8561
30"W Modular Drawer Cabinets							
59¼"	6	64	(1) 16, (2) 12, (3) 8	(2) 6¾", (1) 7", (2) 8½", (1) 11¾"	Putty, Dove Gray	G8570	G8571
	7	80	(2) 16, (2) 12, (3) 8	(1) 5¼", (6) 7"		G8568	G8569
44¼"	11	248	(2) 32, (3) 24, (4) 20, (2) 16	(7) 2¼", (3) 3", (1) 3¾"		G8566	G8567
37¼"	4	48	(4) 48	(4) 7"		G8564	G8565
	8	176	(5) 24, (2) 20, (1) 16	(5) 2¼", (2) 3¾", (1) 5¼"		G8562	G8563
36½"W Modular Drawer Cabinets							
59¼"	11	269	(1) 48, (1) 32, (1) 36, (1) 25, (3) 24, (2) 16, (2) 12	(2) 2¼", (2) 3", (3) 3¾", (4) 5¼"	Putty, Dove Gray	G8572	G8573
44½"W Modular Drawer Cabinets							
59¼"	9	244	(4) 32, (4) 24, (1) 20	(4) 3¾", (4) 5¼", (1) 8½"	Putty, Dove Gray	G8574	G8575
	11	192	(2) 24, (3) 20, (3) 16, (3) 12	(3) 2¼", (5) 3¾", (2) 5¼", (1) 7"		G8576	G8577



No. 410Y11



No. 410Y16



No. 410Y27



No. 410Y21

CRAFTLINE Storage Systems
A PLATT & LABONIA COMPANY LLC

Modular Drawer Cabinets

- Black textured powder-coat finish
- Aluminum extruded drawer pulls with label areas
- All cabinets are 22"D, except No. 410Y27 is 12½"D

Large-capacity drawer systems are equipped with heavy-duty ball bearing slides that allow drawers to fully extend. Inserts with adjustable dividers allow users to customize each drawer for storage of tools or larger items.

Cabinet Height	No. of Drawers	No. of Compart. per Cabinet	No. of Compartments Per Drawer	Usable Drawer Height	KNOB LOCK Item No.	KEY LOCK Item No.	NON-LOCKING Item No.
Drawer Systems							
26"	4	48	(4) 12	(1) 3", (3) 6"	410Y11	410Y15	—
	5	60	(5) 12	(3) 3", (2) 6"	410Y10	410Y14	—
	6	72	(6) 12	(5) 3", (1) 6"	410Y09	—	—
		70	(6) 12	(5) 3", (1) 6"	—	410Y13	—
	7	84	(7) 12	(7) 3"	410Y08	410Y12	—
15"	4	48	(4) 12	(4) 3"	—	—	410Y16
Slide Rack							
15"	4	48	(4) 12	(4) 3"	—	—	410Y21
Utility Cabinet							
9"	1	0	0	(1) 7"	—	410Y27	—

Choosing the Right Strength Storage Cabinet



Heavy-Duty Cabinets
Constructed of 12- or 14-gauge steel, designed for use in the most demanding environments.



Industrial Cabinets
Constructed of 16- or 18-gauge steel, great for use in manufacturing facilities and other industrial environments.



Commercial Cabinets
Constructed of 20-, 22-, or 24-gauge steel, ideal for general purpose, light-duty storage applications.



Full Height with Bi-Fold Doors
No. 3NYJ8



Full Height Clearview Doors
No. 1UCD2

DURHAM MFG Est. 1922 | StrongHold | LYON® | Hallowell

Heavy-Duty Shelving Storage Cabinets

- Adjustable shelves

Galvanneal Steel—Prime galvanneal sheet steel construction provides excellent corrosion resistance for outdoor applications and general high-humidity conditions.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Locking Points	Cabinet Locking Mechanism	Brand	ASSEMBLED STEEL Item No.
Full Height									
Bi-Fold Doors									
84"	36"	18"	4	500 lb.	14	8	Padlock Hasp	Durham Mfg	**3NYJ9**
72"	36"	18"	3	500 lb.	14	8	Padlock Hasp	Durham Mfg	**3NYJ8**
	36"	24"	3	300 lb.	14	8	Padlock Hasp	Durham Mfg	**3NYK1**
Clearview Doors									
78"	36"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**34A495**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UBW4**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Durham Mfg	**34A947**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**34A496**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Strong Hold	**1UBW5**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Durham Mfg	**34A948**
66"	48"	24"	3	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UBW3**
Standard Doors									
84"	36"	18"	4	1250 lb.	14	3	Keyed	Durham Mfg	**3NYL4**
	36"	24"	2	1000 lb.	14	3	Keyed	Durham Mfg	**3NYN1**
	36"	24"	4	900 lb.	14	8	Padlock Hasp	Durham Mfg	**3NYK2**
82"	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**5JL39**
	36"	24"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**5JL40**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**5JL45**
	60"	24"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**3MA47**
78"	36"	18"	4	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**16D690**
	36"	20"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**5ZH07**
	36"	20"	4	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A979**
	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF6**
	36"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF7**
	36"	24"	4	1750 lb.	14	3	Padlock Hasp	Durham Mfg	**34A982**
	36"	24"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**4UZ08**
	36"	24"	4	1900 lb.	12	3	Keyed	Durham Mfg	**16D691**
	36"	24"	8	950 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC6**
	36"	24"	8	950 lb.	12	3	Keyed	Durham Mfg	**16D696**
	48"	24"	4	700 lb.	14	3	Keyed	Durham Mfg	**3NYN5**
	48"	24"	4	1200 lb.	12	3	Keyed	Durham Mfg	**16D693**
	48"	24"	4	1200 lb.	14	3	Padlock Hasp	Durham Mfg	**34A983**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF9**
	48"	24"	5	700 lb.	14	3	Keyed	Durham Mfg	**3NYN6**
	48"	24"	8	600 lb.	12	3	Padlock Hasp	Strong Hold	**5ZH08**
	48"	24"	8	1275 lb.	12	3	Keyed	Durham Mfg	**16D697**
	60"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHG1**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Strong Hold	**4UZ10**
	60"	24"	4	1650 lb.	12	3	Keyed	Durham Mfg	**16D694**
	60"	24"	4	1650 lb.	14	3	Padlock Hasp	Durham Mfg	**34A984**
	60"	24"	8	825 lb.	12	3	Padlock Hasp	Strong Hold	**5ZH09**
	60"	24"	8	1525 lb.	12	3	Keyed	Durham Mfg	**16D698**
	72"	24"	4	1525 lb.	12	3	Padlock Hasp	Strong Hold	**5ZH10**
	72"	24"	4	1525 lb.	12	3	Keyed	Durham Mfg	**16D695**
	72"	24"	8	765 lb.	12	3	Padlock Hasp	Strong Hold	**5ZH11**
	72"	24"	8	1200 lb.	12	3	Padlock Hasp	Durham Mfg	**34A980**
72"	36"	18"	4	700 lb.	14	3	Keyed	Durham Mfg	**3NYL2**
	36"	24"	3	1000 lb.	14	3	Keyed	Durham Mfg	**3NYL7**
	36"	24"	4	1000 lb.	14	3	Keyed	Durham Mfg	**3NYL6**
	48"	24"	3	700 lb.	14	3	Keyed	Durham Mfg	**3NYN3**
	48"	24"	4	700 lb.	14	3	Keyed	Durham Mfg	**3NYN2**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Strong Hold	**4UZ09**
66"	36"	24"	3	1900 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC1**
	36"	24"	3	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A953**
	36"	24"	6	950 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC5**
	36"	24"	6	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A956**
	48"	24"	3	1200 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC2**
	48"	24"	3	1200 lb.	12	3	Keyed	Durham Mfg	**16D692**
	48"	24"	3	1200 lb.	12	3	Padlock Hasp	Durham Mfg	**34A946**
	48"	24"	6	600 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC7**
	48"	24"	6	1275 lb.	12	3	Padlock Hasp	Durham Mfg	**34A957**
	60"	24"	3	1650 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC3**
	60"	24"	3	1650 lb.	12	3	Padlock Hasp	Durham Mfg	**34A954**
	60"	24"	6	825 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC8**
	60"	24"	6	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A958**
	72"	24"	3	1300 lb.	12	3	Padlock Hasp	Durham Mfg	**34A955**
	72"	24"	3	1525 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC4**
	72"	24"	6	765 lb.	12	3	Padlock Hasp	Strong Hold	**2RNC9**
	72"	24"	6	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A959**
64"	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**5JL38**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**3MA46**
60"	36"	18"	3	1250 lb.	14	3	Keyed	Durham Mfg	**3NYL1**
	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF5**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF8**
Ventilated Doors									
84"	36"	18"	4	900 lb.	14	3	Keyed	Durham Mfg	**1UBL3**
	36"	24"	3	900 lb.	14	3	Keyed	Durham Mfg	**3NYK6**
78"	36"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**34A493**
	36"	24"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBU9**
	36"	24"	4	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A934**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV1**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Durham Mfg	**34A935**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**34A494**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV2**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Durham Mfg	**34A936**
72"	36"	18"	4	900 lb.	14	3	Keyed	Durham Mfg	**1UBL2**
	36"	24"	3	900 lb.	14	3	Keyed	Durham Mfg	**3NYK5**
	48"	18"	3	700 lb.	14	3	Keyed	Durham Mfg	**1UBL4**
	48"	24"	2	900 lb.	14	3	Keyed	Durham Mfg	**3NYP2**
	48"	24"	3	700 lb.	14	3	Keyed	Durham Mfg	**3NYK7**
60"	36"	18"	3	900 lb.	14	3	Keyed	Durham Mfg	**1UBL1**

** Based on evenly distributed loads.*

CONTINUED

CONTINUED

DURHAM MFG Est. 1922 | StrongHold | LYON® | Hallowell

Heavy-Duty Shelving Storage Cabinets

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Locking Points	Cabinet Locking Mechanism	Brand	ASSEMBLED STEEL Item No.
Counter Height									
Clearview Doors									
42"	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A965**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A967**
	48"	24"	2	1200 lb.	12	3	Padlock Hasp	Strong Hold	**2RNE9**
Standard Doors									
48"	36"	14"	2	1750 lb.	12	3	Padlock Hasp	Durham Mfg	**410Y49**
	36"	18"	2	1250 lb.	14	3	Keyed	Durham Mfg	**3NYK9**
46"	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Lyon	**5JL37**
42"	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV5**
	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A939**
	36"	21"	2	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHF4**
	36"	24"	2	1000 lb.	14	3	Keyed	Durham Mfg	**3NYL5**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV7**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A941**
	36"	24"	2	1900 lb.	14	3	Padlock Hasp	Durham Mfg	**34A981**
	48"	24"	2	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV8**
	48"	24"	2	1200 lb.	12	3	Padlock Hasp	Durham Mfg	**34A942**
Ventilated Doors									
42"	36"	24"	2	900 lb.	14	3	Keyed	Durham Mfg	**3NYK4**
Desk or Table Height									
Clearview Doors									
36"	24"	20"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**2RNE4**
	24"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A963**
	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A964**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A966**
Standard Doors									
36"	24"	20"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV3**
	24"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A937**
	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV4**
	36"	20"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A938**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UBV6**
	36"	24"	2	1900 lb.	12	3	Padlock Hasp	Durham Mfg	**34A940**

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Locking Points	Cabinet Locking Mechanism	Brand	ASSEMBLED STAINLESS STEEL Item No.
Full Height									
Clearview Doors									
78"	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UCD2**
66"	48"	24"	3	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UCD1**
Standard Doors									
78"	36"	20"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**2RND4**
	36"	24"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**2RND5**
	48"	24"	4	1200 lb.	12	3	Padlock Hasp	Strong Hold	**2RND6**
	60"	24"	4	1650 lb.	12	3	Padlock Hasp	Strong Hold	**2RND7**
	72"	24"	8	765 lb.	12	3	Padlock Hasp	Strong Hold	**2RNE3**
66"	36"	24"	3	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UCC6**
	36"	24"	6	950 lb.	12	3	Padlock Hasp	Strong Hold	**1UCD7**
	48"	24"	3	1200 lb.	12	3	Padlock Hasp	Strong Hold	**1UCC7**
	48"	24"	6	600 lb.	12	3	Padlock Hasp	Strong Hold	**1UCD8**
Ventilated Doors									
78"	36"	24"	4	1900 lb.	12	3	Padlock Hasp	Strong Hold	**1UCD4**

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Locking Points	Cabinet Locking Mechanism	Brand	ASSEMBLED GALVANNEAL STEEL Item No.
Full Height									
Standard Doors									
78"	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHJ7**
	36"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHJ8**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHK1**
	60"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHK2**
60"	36"	21"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHJ6**
	48"	24"	4	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHJ9**

** Based on evenly distributed loads.*



Full Height with Ventilated Doors No. 1UCD4



Counter Height with Standard Doors No. 5JL37



Countertop with Clearview Doors No. 2RNE4



Cabinet Leg Kit No. 1YHG9

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Locking Points	Cabinet Locking Mechanism	Brand	ASSEMBLED GALVANNEAL STEEL Item No.
Counter Height									
42"	36"	21"	2	1450 lb.	14	3	Padlock Hasp	Hallowell	**1YHJ5**

Description	GALVANNEAL Brand	GALVANNEAL Gauge	GALVANNEAL Item No.	STEEL Brand	STEEL Gauge	STEEL Item No.
Additional Shelves						
36"W x 21"D	Hallowell	14	**1YHK7**	—	—	—
36"W x 21"D	Hallowell	16	**1YHJ2**	—	—	—
36"W x 24"D	Hallowell	14	**1YHK8**	Durham Mfg	14	**34A986**
36"W x 24"D	Hallowell	16	**1YHJ3**	—	—	—
48"W x 24"D	Hallowell	14	**1YHK9**	Durham Mfg	14	**34A987**
48"W x 24"D	Hallowell	16	**1YHJ4**	—	—	—
Cabinet Leg Kits, Pkg. of 2						
4"H x 21"D	Hallowell	12	**2KEJ7**	—	—	—
4"H x 24"D	Hallowell	12	**1YHG9**	—	—	—

StrongHold | DURHAM MFG Est. 1922

Heavy-Duty Steel Wardrobe Storage Cabinets

- Adjustable shelves
- 3-pt. locking mechanism; padlock hasp
- Standard doors
- Powder-coated finish

Designed with a hanger shelf on 1 side, and an upper area for hat storage. Other side can store heavy materials and tools.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Brand	ASSEMBLED Item No.
78"	60"	24"	5	975 lb.	12	Strong Hold	**3THP9**
	60"	24"	5	1200 lb.	12	Durham Mfg	**34A971**
	48"	24"	5	700 lb.	12	Strong Hold	**3THP8**
	48"	24"	5	1900 lb.	12	Durham Mfg	**34A970**
	36"	24"	5	1150 lb.	12	Strong Hold	**3THP7**
	36"	24"	5	1900 lb.	12	Durham Mfg	**34A969**

** Based on evenly distributed loads.*



No. 3THP7



Combination Drawer Cabinet No. 34A943



Combination Wardrobe Cabinet No. 5JL46



Wardrobe/ Drawer Cabinet No. 34A972

DURHAM MFG Est. 1922 LYON® Hallowell

Heavy-Duty Combination Storage Cabinets

- Adjustable shelves
- 3-pt. locking system
- Powder-coated finish
- Standard doors
- Ship fully assembled

Galvanneal models provide excellent corrosion resistance for outdoor applications and general high-humidity conditions.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Brand	ASSEMBLED STEEL Item No.	ASSEMBLED GALVANNEAL STEEL Item No.
Combination Drawer Cabinets								
78"	36"	24"	2	1900 lb.	12	Durham Mfg	**34A951**	—
	36"	24"	3	1900 lb.	12	Durham Mfg	**34A949**	—
	36"	24"	4	1900 lb.	12	Durham Mfg	**34A950**	—
	48"	24"	3	1200 lb.	12	Durham Mfg	**34A943**	—
	60"	24"	3	1650 lb.	12	Durham Mfg	**34A944**	—
	72"	24"	3	1600 lb.	12	Durham Mfg	**34A945**	—
Combination Wardrobe Cabinets								
82"	36"	24"	4	1450 lb.	14	Lyon	**5JL46**	—
	48"	24"	4	1450 lb.	14	Lyon	**3MA48**	—
	60"	24"	4	1450 lb.	14	Lyon	**3MA49**	—
78"	36"	24"	4	1450 lb.	14	Hallowell	**1YHG2**	**1YHK3**
	48"	24"	4	1450 lb.	14	Hallowell	**1YHG3**	**1YHK4**
	60"	24"	4	1450 lb.	14	Hallowell	**1YHG4**	**1YHK5**
Combination Wardrobe/Drawer Cabinets								
78"	36"	24"	1	1900 lb.	12	Durham Mfg	**34A972**	—
	48"	24"	1	1900 lb.	12	Durham Mfg	**34A973**	—
	60"	24"	1	1025 lb.	12	Durham Mfg	**34A974**	—

** Based on evenly distributed loads.*



Shelving Cabinet No. 34A975



Combination Drawer Cabinet No. 410Y39

DURHAM MFG Est. 1922

Heavy-Duty Steel Pegboard Storage Cabinets

- 3-pt. locking mechanism; padlock hasp
- Powder-coated finish
- Standard doors

Durable cabinets feature high-capacity shelves and standard-sized peg holes in the doors for hanging and secure storage of tools.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	ASSEMBLED Item No.
Shelving Cabinets						
78"	36"	24"	4	1375 lb.	12	**34A975**
	36"	24"	4	1750 lb.	12	**410Y42**
	48"	24"	2	1000 lb.	12	**410Y43**
	48"	24"	3	1000 lb.	12	**410Y44**
	48"	24"	4	1000 lb.	12	**410Y45**
	48"	24"	4	1750 lb.	12	**34A976**
	48"	30"	2	1000 lb.	12	**410Y47**
	60"	24"	4	750 lb.	12	**410Y46**
	60"	24"	4	1525 lb.	12	**34A977**
	60"	30"	3	1000 lb.	12	**410Y48**
Combination Drawer Cabinets						
78"	36"	24"	1	1750 lb.	12	**410Y41**
	36"	24"	3	1750 lb.	12	**410Y39**
	48"	24"	4	400 lb.	12	**410Y40**

** Based on evenly distributed loads.*



No. 2RND1



No. 34A960

StrongHold DURHAM MFG Est. 1922

Heavy-Duty Steel Outdoor Storage Cabinets

- 3-pt. locking mechanism; padlock hasp
- Powder-coated finish
- Standard doors

Designed specifically for outdoor use with a sloped top to shed water and a gasketed sealed door frame and rain guard to provide additional weather resistance.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Brand	ASSEMBLED Item No.
78"	36"	24"	4	1900 lb.	12	Strong Hold	**2RND1**
	36"	24"	4	1900 lb.	12	Durham Mfg	**34A960**
	48"	24"	4	1200 lb.	12	Strong Hold	**2RND2**
	48"	24"	4	1200 lb.	12	Durham Mfg	**34A961**
	60"	24"	4	1650 lb.	12	Strong Hold	**2RND3**
	60"	24"	4	1650 lb.	12	Durham Mfg	**34A962**

** Based on evenly distributed loads.*

StrongHold® DURHAM MFG Est. 1922

Heavy-Duty Steel Janitorial Storage Cabinets

- Shelves are adjustable
- 3-pt. locking mechanism
- Powder-coated finish

Designed with a convenient broom storage area and shelves for storage of heavy materials, tools, and other industrial items.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Cabinet Locking Mechanism	Gauge	Brand	ASSEMBLED Item No.
Standard Doors								
78"	36"	24"	4	1150 lb.	Padlock Hasp	12	Strong Hold	**3THR4**
	36"	24"	4	950 lb.	Keyed	12	Durham Mfg	**16D699**
	48"	24"	4	700 lb.	Padlock Hasp	12	Strong Hold	**3THR5**
	48"	24"	4	1600 lb.	Keyed	12	Durham Mfg	**16D701**
	60"	24"	4	975 lb.	Padlock Hasp	12	Strong Hold	**3THR6**
	60"	24"	4	1300 lb.	Keyed	12	Durham Mfg	**16D702**
Ventilated Doors								
84"	36"	24"	5	900 lb.	Keyed	14	Durham Mfg	**3NYK8**

** Based on evenly distributed loads.*



Standard Doors No. 3THR4



Ventilated Doors No. 3NYK8

DURHAM MFG Est. 1922 | Hallowell | ★GA GRAINGER APPROVED | Jamco Products

Industrial Shelving Storage Cabinets

- Shelves are adjustable

Cabinet models constructed from galvanneal sheet steel feature excellent corrosion resistance for outdoor applications and general high-humidity conditions.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Locking Points	Cabinet Locking Mechanism	Gauge	Brand	STEEL Item No.	ASSEMBLED GALVANNEAL STEEL Item No.	STAINLESS STEEL Item No.
Cabinets w/ Standard Doors											
84"	36"	18"	4	1250 lb.	3 Points	Keyed	16	Durham Mfg	**16D678**	—	—
	36"	24"	4	1250 lb.	3 Points	Keyed	16	Durham Mfg	**16D681**	—	—
	48"	24"	4	500 lb.	3 Points	Keyed	16	Durham Mfg	**16D684**	—	—
	60"	24"	4	300 lb.	3 Points	Keyed	16	Durham Mfg	**16D685**	—	—
78"	36"	21"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE2**	**1YHH3**	—
	36"	24"	4	400 lb.	2 Points	Keyed	18	GA	—	—	**6MNW4**
	36"	24"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE3**	**1YHH4**	—
	48"	24"	4	400 lb.	2 Points	Keyed	18	GA	—	—	**6MNW5**
	48"	24"	4	500 lb.	3 Points	Keyed	16	Durham Mfg	**16D683**	—	—
	48"	24"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE5**	**1YHH6**	—
	60"	24"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE6**	**1YHH7**	—
73"	36"	18"	4	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA40**
	36"	24"	4	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA42**
	48"	24"	4	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA43**
72"	36"	18"	4	400 lb.	2 Points	Keyed	18	GA	—	—	**6MNW3**
	36"	18"	4	700 lb.	3 Points	Keyed	16	Durham Mfg	**16D677**	—	—
	36"	24"	4	700 lb.	3 Points	Keyed	16	Durham Mfg	**16D680**	—	—
	48"	24"	4	1000 lb.	3 Points	Keyed	16	Durham Mfg	**16D682**	—	—
62¾"	64"	28"	3	1450 lb.	1 Point	Padlock Hasp	16	Durham Mfg	**1UBL5**	—	—
61"	36"	18"	3	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA36**
	36"	24"	3	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA38**
	48"	24"	3	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA39**
60"	36"	18"	3	700 lb.	3 Points	Keyed	16	Durham Mfg	**16D676**	—	—
	36"	21"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE1**	**1YHH2**	—
	48"	24"	4	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHE4**	**1YHH5**	—
48"	36"	18"	2	700 lb.	3 Points	Keyed	16	Durham Mfg	**16D675**	—	—
42"	36"	18"	2	400 lb.	2 Points	Keyed	18	GA	—	—	**6MNW2**
	36"	21"	2	1000 lb.	3 Points	Padlock Hasp	16	Hallowell	**1YHD9**	**1YHH1**	—
	36"	24"	2	1250 lb.	3 Points	Keyed	16	Durham Mfg	**16D679**	—	—
37"	36"	18"	2	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA32**
	36"	24"	2	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA34**
	48"	24"	2	400 lb.	2 Points	Keyed	18	Jamco	—	—	**23PA35**

Description	W	Material	Brand	Item No.
Additional Shelves				
For use with Nos. 23PA32, 23PA36, 23PA40	15½"	Stainless Steel	Jamco	**23PA44**
For use with Nos. 23PA34, 23PA38, 23PA42	21½"	Stainless Steel	Jamco	**23PA46**
For use with Nos. 23PA35, 23PA39, 23PA43	21½"	Stainless Steel	Jamco	**23PA47**
For use with Nos. 6MNW3, 6MNW2	36"	Stainless Steel	GA	**6MNW7**
For use with Nos. 6MNW4	36"	Stainless Steel	GA	**6MNW8**
For use with Nos. 6MNW5	48"	18-Ga. Steel	GA	**6MNW9**
For use with Nos. 1YHD9, 1YHE1	36"	16 Gauge Cold Rolled Steel	Hallowell	**1YHF1**
For use with Nos. 1YHE3, 1YHE7	36"	16 Gauge Cold Rolled Steel	Hallowell	**1YHF2**
For use with Nos. 1YHE4, 1YHE5, 1YHE8	48"	16 Gauge Cold Rolled Steel	Hallowell	**1YHF3**
For use with Nos. 1YHH1, 1YHH2, 1YHH3	36"	16 Gauge Galvanneal Steel	Hallowell	**1YHJ2**
For use with Nos. 1YHH4, 1YHH8	36"	16 Gauge Galvanneal Steel	Hallowell	**1YHJ3**
For use with Nos. 1YHH5, 1YHH6, 1YHH9	48"	16 Gauge Galvanneal Steel	Hallowell	**1YHJ4**

** Based on evenly distributed loads.*

No. 1YHE2





No. 16D683



No. 6MNW2



No.
23PA30

GA GRAINGER APPROVED

Jamco Products
A Myers Industries Company

Industrial Wall-Mount Storage Cabinets

- 2-pt. locking paddle handle includes 2 keys
- Standard doors
- Stainless steel finish

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Includes Mounting Hardware	Cabinet Shelf Style	Gauge	Brand	UNASSEMBLED Item No.	ASSEMBLED Item No.	ADDITIONAL SHELF Item No.
30"	30"	12"	1	150 lb.	Yes	Fixed	18	GA	6MNU8	—	6MNW6
	30"	12"	1	150 lb.	No	Adjustable	18	GA	—	6MNW1	6MNW6
	30"	12"	2	150 lb.	No	Adjustable	18	Jamco	—	23PA30	23PA31

** Based on evenly distributed loads.*

No.
1YHE7



Hallowell

Industrial Combination Storage Cabinets

- Shelves adjust in 3" increments
- 3-pt. locking mechanism with ⅜" locking rod and padlock hasp
- Powder-coated finish
- Standard doors

Feature full-width top shelf, 3 adjustable partial-width shelves, and a hanger rod. Standard steel cabinets feature DuraTough™ prime cold-rolled sheet steel construction and are ideal for general purpose storage. Galvanneal steel models feature prime galvanneal sheet construction that provides excellent corrosion resistance for outdoor applications and general high-humidity conditions.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	ASSEMBLED STEEL Item No.	ASSEMBLED GALVANNEAL STEEL Item No.
78"	36"	24"	4	1000 lb.	16	1YHE7	1YHH8
	48"	24"	4	1000 lb.	16	1YHE8	1YHH9
	60"	24"	4	1000 lb.	16	1YHE9	1YHJ1

** Based on evenly distributed loads.*

No. 31XW98



Sandusky

Industrial Stainless Steel Storage Cabinet

- Shelves adjust in 2" increments
- 3-pt. locking mechinism (2 keys included)
- Clearview doors

Durable 18-gauge, type 304 stainless steel construction. Shelves support up to 400 lb. each. Full length piano hinges on doors.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	ASSEMBLED Item No.
72"	36"	18"	5	500 lb.	18	31XW97
78"	48"	24"	5	500 lb.	18	31XW98

** Based on evenly distributed loads.*

tennsco Storage Made Easy | Hallowell | GA GRAINGER APPROVED | Sandusky

Commercial Steel Shelving Storage Cabinets

- Shelves adjust in 2" increments
- Powder-coated finish

Shelves adjust on integrated support tabs and fit tightly to sides and back with no clips needed. Raised bases protect doors from damage by mops. Reinforced doors with nylon lock bar guides open 180° for full access to contents. Cabinets feature a 3-pt. locking mechanism with keyed chrome handle (key included), except Nos. E1446, E1448, G6554, E1445, E1447, E1449, G6552, and G6553, which have a 2-pt. locking mechanism. Clearview cabinets have see-through acrylic doors to provide visibility to contents and 2 swing handles, 1 with key lock.



Clearview Doors
No. 34A348



Standard Doors
No. 6MNY2

H	W	D	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color †	Brand	ASSEM. Item No.	UNASSEM. Item No.
Clearview Doors									
	36"	18"	4	150 lb.	22	LG, MG	Tennsco	E4468	—
	36"	18"	4	250 lb.	20	B	Hallowell	34A384	34A348
	36"	18"	4	250 lb.	20	LG	Hallowell	34A457	34A421
	36"	18"	4	250 lb.	20	P	Hallowell	34A312	34A275
	36"	24"	4	200 lb.	22	MG	Tennsco	E4469	—
	36"	24"	4	250 lb.	20	B	Hallowell	34A386	34A350
	36"	24"	4	250 lb.	20	LG	Hallowell	34A459	34A423
	36"	24"	4	250 lb.	20	P	Hallowell	34A314	34A277
	48"	18"	4	150 lb.	20	G	GA	411M01	—
78"	48"	18"	4	250 lb.	20	B	GA	—	34A364
	48"	18"	4	250 lb.	20	LG	Hallowell	34A473	34A437
	48"	18"	4	250 lb.	20	P	GA	34A328	34A291
	48"	18"	4	400 lb.	20/22	MG	Tennsco	E4497	—
	48"	24"	4	150 lb.	20	G	GA	411M06	—
	48"	24"	4	250 lb.	20	B	GA	—	34A367
	48"	24"	4	250 lb.	20	B	Hallowell	34A404	—
	48"	24"	4	250 lb.	20	LG	Hallowell	—	34A440
	48"	24"	4	250 lb.	20	P	GA	34A331	34A294
	48"	24"	4	400 lb.	20/22	B, MG	Tennsco	E4498	—
	48"	24"	4	400 lb.	20/22	LG, MG	Tennsco	—	E4496
	36"	18"	4	150 lb.	24	B, MG	Tennsco	E4462	—
	36"	18"	4	150 lb.	24	B, G, P	GA	—	J6216
	36"	18"	4	150 lb.	24	G, P	GA	J6212	—
	36"	18"	4	200 lb.	22	B, G, P	Hallowell	—	G6759
	36"	18"	4	200 lb.	22	B, G, P	GA	G6760	—
	36"	18"	4	200 lb.	22/24	G, LG	Sandusky	F1922	—
	36"	24"	4	150 lb.	24	B	GA	—	J6217
72"	36"	24"	4	200 lb.	24	B, LG, MG, S	Tennsco	E4463	—
	36"	24"	4	200 lb.	22	B, G	Hallowell	—	G6761
	36"	24"	4	200 lb.	22	B, G	GA	G6762	—
	36"	24"	4	200 lb.	22/24	G, Y	Sandusky	F1923	—
	36"	24"	4	200 lb.	24	LG, MG, S	Tennsco	—	E4475
	36"	24"	4	200 lb.	22	P	GA	—	G6761
	48"	18"	4	200 lb.	22	B, G, P	Hallowell	H2200	H2199
	48"	24"	4	200 lb.	22	B, G, P	Hallowell	H2202	H2201
	36"	18"	2	150 lb.	24	B, LG, MG, S	Tennsco	E4467	—
42"	36"	18"	2	150 lb.	24	B, G, P	GA	—	J6220
	36"	18"	2	150 lb.	24	MG	Tennsco	—	E4478
	48"	18"	2	150 lb.	20	B, P	GA	J6227	—
	48"	18"	2	400 lb.	20/22	LG, MG	Tennsco	E4501	—
Standard Doors									
	36"	18"	4	180 lb.	22/24	B, C, DG, S	Sandusky	G6545	—
	36"	18"	4	200 lb.	20/22	B, C, DG, S	Sandusky	E1446	—
	36"	18"	4	200 lb.	20/22	B, C, DG, S	Sandusky	G6536	—
	36"	18"	4	250 lb.	20	B	Hallowell	6MNZ4	6MNX6
	36"	18"	4	250 lb.	20	LG	Hallowell	6MPA0	6MNY2
	36"	18"	4	250 lb.	20	P	Hallowell	6MNY8	6MNX0
	36"	24"	4	180 lb.	22/24	B, C, DG, S	Sandusky	G6546	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	E1448	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	G6537	—
	36"	24"	4	250 lb.	20	B	Hallowell	6MNZ5	6MNX7
78"	36"	24"	4	250 lb.	20	LG	Hallowell	6MPA1	6MNY3
	36"	24"	4	250 lb.	20	P	Hallowell	6MNY9	6MNX1
	46"	24"	4	230 lb.	20/22	B, C, DG, S	Sandusky	G6539	—
	46"	24"	4	230 lb.	20/22	B, C, DG, S	Sandusky	G6554	—
	48"	18"	4	250 lb.	20	B	GA	34A399	—
	48"	18"	4	250 lb.	20	LG	Hallowell	34A472	34A436
	48"	18"	4	250 lb.	20	P	GA	34A327	—
	48"	18"	4	400 lb.	20	LG	Tennsco	—	F0320
	48"	24"	4	250 lb.	20	B	GA	34A403	34A366
	48"	24"	4	250 lb.	20	LG	Hallowell	34A475	34A439
	48"	24"	4	250 lb.	20	P	GA	34A330	34A293
	48"	24"	4	400 lb.	20	S	Tennsco	—	F0321
	36"	18"	4	150 lb.	24	B, G, P	GA	J6201	J6199
	36"	18"	4	180 lb.	22/24	B, C, DG, S	Sandusky	F1274	—
	36"	18"	4	200 lb.	20/22	B, C, DG, S	Sandusky	E1445	—
	36"	18"	4	200 lb.	20/22	B, C, DG, S	Sandusky	G6534	—
	36"	18"	4	200 lb.	22	B, G, P	Hallowell	—	G6755
	36"	18"	4	200 lb.	22	B, G, P	GA	G6756	—
	36"	24"	4	150 lb.	24	B, G, P	GA	—	J6200
	36"	24"	4	150 lb.	24	G, P	GA	J6202	—
72"	36"	24"	4	180 lb.	22/24	B, C, DG, S	Sandusky	F8183	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	E1447	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	G6535	—
	36"	24"	4	200 lb.	22	B, G, P	Hallowell	—	G6757
	36"	24"	4	200 lb.	22	B	Hallowell	G6758	—
	36"	24"	4	200 lb.	22	G, P	GA	G6758	—
	46"	24"	4	230 lb.	20/22	B, C, DG, S	Sandusky	E1449	—
	46"	24"	4	230 lb.	20/22	B, C, DG, S	Sandusky	G6538	—
	48"	18"	4	200 lb.	22	B, G, P	Hallowell	H2196	H2195
	48"	24"	4	200 lb.	22	B, G, P	Hallowell	H2198	H2197
	36"	18"	2	150 lb.	22	B, Y, LG, MG, S	Tennsco	D4923	—
	36"	18"	2	150 lb.	22	B, LG	Tennsco	—	F0314
	36"	18"	2	150 lb.	24	B, G, P	GA	—	J6208
	36"	18"	2	150 lb.	24	P	GA	J6209	—
	36"	18"	2	180 lb.	22/24	B, C, DG, S	Sandusky	F4492	—
	36"	18"	2	200 lb.	20/22	B, C, DG, S	Sandusky	G6531	—
	36"	18"	2	200 lb.	20/22	B, C, DG, S	Sandusky	G6551	—
	36"	24"	2	180 lb.	22/24	B, C, DG, S	Sandusky	G6544	—
42"	36"	24"	2	200 lb.	20/22	B, C, DG, S	Sandusky	G6532	—
	36"	24"	2	200 lb.	20/22	B, C, DG, S	Sandusky	G6552	—
	36"	24"	2	200 lb.	22	B, P	GA	—	J6230
	36"	24"	2	200 lb.	22	G, P	GA	J6195	—
	46"	24"	2	230 lb.	20/22	B, C, DG, S	Sandusky	G6533	—
	46"	24"	2	230 lb.	20/22	B, C, DG, S	Sandusky	G6553	—
	48"	18"	2	150 lb.	20	G	GA	J6224	—
	48"	24"	2	150 lb.	20	B, G, P	GA	—	J6223
	48"	24"	2	150 lb.	20	G, P	GA	J6225	—
	18"	24"	1	85 lb.	20/22	B, C, DG, Y	Sandusky	G6529	—
30"	36"	18"	1	150 lb.	24	G, P	GA	J6196	—
	36"	18"	1	150 lb.	24	G	GA	—	J6210
	36"	18"	1	200 lb.	20/22	B, C, DG, Y	Sandusky	G6530	—
Ventilated Doors									
84"	36"	24"	4	250 lb.	20	B	Hallowell	34A390	—
	36"	24"	4	250 lb.	20	LG	Hallowell	34A463	—
	36"	18"	4	250 lb.	20	B	Hallowell	34A385	34A349
	36"	18"	4	250 lb.	20	LG	Hallowell	34A458	34A422
	36"	18"	4	250 lb.	20	P	Hallowell	34A313	34A276
	36"	24"	4	250 lb.	20	B	Hallowell	34A387	34A351
	36"	24"	4	250 lb.	20	LG	Hallowell	34A460	34A424
78"	36"	24"	4	250 lb.	20	P	Hallowell	34A315	34A278
	48"	18"	4	250 lb.	20	B	Hallowell	34A402	34A365
	48"	18"	4	250 lb.	20	LG	Hallowell	34A474	34A438
	48"	18"	4	250 lb.	20	P	Hallowell	34A329	34A292
	48"	24"	4	250 lb.	20	B	Hallowell	34A405	34A368
	48"	24"	4	250 lb.	20	LG	Hallowell	34A477	34A441
	48"	24"	4	250 lb.	20	P	Hallowell	34A332	34A295
	36"	18"	4	200 lb.	22	B, G, P	Hallowell	G6764	G6763
72"	36"	24"	4	200 lb.	22	B, G, P	Hallowell	G6766	G6765
	48"	18"	4	200 lb.	22	B, G, P	Hallowell	H2204	H2203
	48"	24"	4	200 lb.	22	B, G, P	Hallowell	H2206	H2205

W	L	▶CHOOSE: Color	Brand	Item No.
Storage Cabinet Dollies				
36"	18"	Light Gray, Champagne/Putty, Black, Medium Gray, Sand	Tennsco	F0996
36"	24"		Tennsco	F0997
48"	24"	Medium Gray, Sand, Black, Light Gray, Champagne/Putty	Tennsco	E2262

** Based on evenly distributed loads. † AG Antimicrobial Gray, B Black, C Charcoal, DG Dove Gray, G Gray, LG Light Gray, MG Medium Gray, P Parchment, S Sand, Y Putty*



Clearview Doors
No. 34A353



Ventilated Doors
No. 34A281

Hallowell Sandusky GA GRAINGER APPROVED

Mobile Commercial Steel Shelving Storage Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed chrome handle (key included)
- Include four 5" swivel casters (2 with brakes)
- Powder-coated finish

Side Push Handles—Mount to either side of mobile cabinet to provide easier maneuverability.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color †	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors									
84"	36"	24"	4	250 lb.	20	B	Hallowell	**34A389**	**34A353**
	36"	24"	4	250 lb.	20	P	Hallowell	**34A317**	**34A280**
	48"	24"	4	250 lb.	20	B	Hallowell	**34A407**	**34A370**
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A479**	**34A443**
	48"	24"	4	250 lb.	20	P	Hallowell	**34A334**	**34A297**
72"	36"	24"	4	200 lb.	22	B, G, P	Hallowell	**G6770**	**G6769**
	48"	24"	4	200 lb.	22		Hallowell	**H2210**	**H2209**
Standard Doors									
84"	36"	24"	4	250 lb.	20	B	Hallowell	**34A388**	**34A352**
	36"	24"	4	250 lb.	20	AG	Hallowell	**34A461**	**34A425**
	36"	24"	4	250 lb.	20	P	Hallowell	**34A316**	**34A279**
	48"	24"	4	250 lb.	20	B	Hallowell	—	**34A369**
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A478**	**34A442**
	48"	24"	4	250 lb.	20	P	Hallowell	**34A333**	**34A296**
78"	36"	24"	1	200 lb.	20/22		Sandusky	**F1960**	—
	36"	24"	4	200 lb.	20/22		Sandusky	**E2313**	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	**F1959**	—
	46"	24"	4	230 lb.	20/22		Sandusky	**E2314**	—
	46"	24"	4	230 lb.	20/22		Sandusky	**G6561**	—
	48"	18"	4	250 lb.	20	B	GA	—	**34A363**
	48"	18"	4	250 lb.	20	P	GA	—	**34A290**
	48"	24"	4	250 lb.	20	B	Hallowell	**34A406**	—
72"	30"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	**F5326**	—
	36"	24"	4	200 lb.	22	B, G, P	Hallowell	**G6768**	**G6767**
	48"	24"	4	200 lb.	22		Hallowell	**H2208**	**H2207**
66"	36"	24"	3	200 lb.	20/22		Sandusky	**G6560**	—
	46"	24"	3	230 lb.	20/22		Sandusky	**F5325**	—
48"	46"	24"	2	230 lb.	20/22	B, C, DG, S	Sandusky	**G6559**	—
36"	18"	24"	1	200 lb.	20/22		Sandusky	**F5718**	—
	36"	24"	1	200 lb.	20/22		Sandusky	**F5686**	—
Ventilated Doors									
84"	36"	24"	4	250 lb.	20	B	Hallowell	—	**34A354**
	36"	24"	4	250 lb.	20	AG	Hallowell	—	**34A427**
	36"	24"	4	250 lb.	20	P	Hallowell	**34A318**	**34A281**
	48"	24"	4	250 lb.	20	B	Hallowell	**34A408**	**34A371**
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A480**	**34A444**
	48"	24"	4	250 lb.	20	P	Hallowell	**34A335**	**34A298**
72"	36"	24"	4	200 lb.	22	B, G, P	Hallowell	**G6772**	**G6771**
	48"	24"	4	200 lb.	22		Hallowell	**H2212**	**H2211**

W	H	D	Color	Brand	Item No.
Side Push Handles					
23"	5"	4½"	Sand	Sandusky	**5DCW1**
23"	5"	4½"	Black	Sandusky	**5DCW2**
23"	5"	4½"	Dove Gray	Sandusky	**4BE66**

**** Based on evenly distributed loads. † AG Antimicrobial Light Gray, B Black, C Charcoal, DG Dove Gray, G Gray, P Parchment, S Sand***



Clearview Doors
No. 34A284



Standard Doors
No. 1UBU1



Ventilated Doors
No. 34A394

Hallowell GA GRAINGER APPROVED tennsco Storage Made Easy Sandusky

Commercial Wardrobe Storage Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed chrome handle (key included)
- Powder-coated finish
- 1 swing handle with key lock

Include 1 full-width shelf, 1 coat rod, and 2 keys. Shelves adjust on integrated support tabs and fit tightly to sides and back with no clips needed. Raised bases protect doors from damage by mops. Reinforced doors with nylon lock bar guides open 180° for full access to contents. Clearview cabinets have see-through acrylic doors to provide visibility to contents and 2 swing handles, 1 with key lock.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	Cabinet Color	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors									
78"	36"	18"	1	250 lb.	20	B	Hallowell	**34A391**	—
	36"	24"	1	250 lb.	20	B	Hallowell	**34A393**	**34A357**
	36"	24"	1	250 lb.	20	AG	Hallowell	**34A466**	**34A430**
	36"	24"	1	250 lb.	20	P	Hallowell	**34A321**	**34A284**
	48"	18"	1	250 lb.	20	B	Hallowell	**34A410**	**34A373**
	48"	18"	1	250 lb.	20	AG	Hallowell	**34A482**	**34A446**
	48"	18"	1	250 lb.	20	P	Hallowell	**34A337**	**34A301**
	48"	24"	1	250 lb.	20	B	Hallowell	**34A413**	—
	48"	24"	1	250 lb.	20	AG	Hallowell	**34A485**	**34A449**
	48"	24"	1	250 lb.	20	P	Hallowell	**34A340**	**34A304**
Standard Doors									
78"	36"	18"	1	150 lb.	22	MG	Tennsco	**1UBU1**	—
	36"	18"	1	200 lb.	20/22	B, C, DG	Sandusky	**G6557**	—
	36"	18"	1	200 lb.	20/22	B, C, DG	Sandusky	**G6542**	—
	36"	18"	1	250 lb.	20	B	Hallowell	**6MNZ6**	**6MNX8**
	36"	18"	1	250 lb.	20	AG	Hallowell	**6MPA2**	**6MNY4**
	36"	18"	1	250 lb.	20	P	Hallowell	**6MNZ0**	**6MNX2**
	36"	24"	1	200 lb.	20/22	B, C, DG, S	Sandusky	**G6558**	—
	36"	24"	1	200 lb.	20/22	B, C, DG, S	Sandusky	**G6543**	—
	36"	24"	1	200 lb.	22	P	Tennsco	**3HNJ9**	—
	36"	24"	1	250 lb.	20	B	Hallowell	**6MNZ7**	**6MNX9**
	36"	24"	1	250 lb.	20	AG	Hallowell	**6MPA3**	**6MNY5**
	36"	24"	1	250 lb.	20	P	Hallowell	**6MNZ1**	**6MNX3**
	48"	18"	1	250 lb.	20	B	Hallowell	**34A409**	**34A372**
	48"	18"	1	250 lb.	20	AG	Hallowell	**34A481**	**34A445**
	48"	18"	1	250 lb.	20	P	Hallowell	**34A336**	**34A299**
	48"	24"	1	250 lb.	20	B	Hallowell	**34A412**	**34A375**
	48"	24"	1	250 lb.	20	AG	Hallowell	**34A484**	**34A448**
	48"	24"	1	250 lb.	20	P	Hallowell	**34A339**	**34A303**
72"	36"	18"	1	150 lb.	24	B, G, P	GA	**J6204**	**J6203**
	36"	24"	1	180 lb.	22/24	B, DG, S	Sandusky	**G6549**	—
Ventilated Doors									
78"	36"	18"	1	250 lb.	20	B	Hallowell	**34A392**	**34A356**
	36"	18"	1	250 lb.	20	AG	Hallowell	**34A465**	**34A429**
	36"	18"	1	250 lb.	20	P	Hallowell	**34A320**	**34A283**
	36"	24"	1	250 lb.	20	B	Hallowell	**34A394**	**34A358**
	36"	24"	1	250 lb.	20	AG	Hallowell	**34A467**	**34A431**
	36"	24"	1	250 lb.	20	P	Hallowell	**34A322**	**34A285**
	48"	18"	1	250 lb.	20	B	Hallowell	**34A411**	**34A374**
	48"	18"	1	250 lb.	20	AG	Hallowell	**34A483**	**34A447**
	48"	18"	1	250 lb.	20	P	Hallowell	**34A338**	**34A302**
	48"	24"	1	250 lb.	20	B	Hallowell	**34A414**	**34A377**
	48"	24"	1	250 lb.	20	AG	Hallowell	**34A486**	**34A450**
	48"	24"	1	250 lb.	20	P	Hallowell	**34A341**	**34A305**

**** Based on evenly distributed loads.***



Clearview Doors
No. 34A379



Standard Doors
No. F0310



Ventilated Doors
No. 34A433

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Cabinet Color †	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors									
78"	36"	18"	4	250 lb.	20	B	Hallowell	**34A395**	**34A359**
	36"	18"	4	250 lb.	20	AG	Hallowell	**34A468**	**34A432**
	36"	18"	4	250 lb.	20	P	Hallowell	**34A323**	**34A286**
	36"	24"	4	250 lb.	20	B	Hallowell	**34A397**	**34A361**
	36"	24"	4	250 lb.	20	AG	Hallowell	**34A470**	**34A434**
	36"	24"	4	250 lb.	20	P	Hallowell	**34A325**	**34A288**
	48"	18"	4	250 lb.	20	B	GA	—	**34A379**
	48"	18"	4	250 lb.	20	B	Hallowell	**34A416**	—
	48"	18"	4	250 lb.	20	AG	Hallowell	**34A488**	**34A452**
	48"	18"	4	250 lb.	20	P	Hallowell	**34A343**	**34A307**
	48"	24"	4	250 lb.	20	B	Hallowell	**34A419**	—
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A491**	**34A455**
	48"	24"	4	250 lb.	20	P	Hallowell	**34A346**	**34A310**
Standard Doors									
78"	36"	18"	4	180 lb.	22/24	B, C, DG, S	Sandusky	**G6547**	—
	36"	18"	4	200 lb.	20/22	B, C, DG, S	Sandusky	**G6540**	—
	36"	18"	4	200 lb.	20/22	B, C, DG	Sandusky	**G6555**	—
	36"	18"	4	250 lb.	20	B	Hallowell	**6MNZ8**	**6MNY0**
	36"	18"	4	250 lb.	20	AG	Hallowell	**6MPA4**	**6MNY6**
	36"	18"	4	250 lb.	20	P	Hallowell	**6MNZ2**	**6MNX4**
	36"	18"	5	150 lb.	22	P	Tennsco	—	**F0310**
	36"	24"	4	180 lb.	22/24	B, C, DG, S	Sandusky	**G6548**	—
	36"	24"	4	200 lb.	20/22	B, C, DG	Sandusky	**G6541**	—
	36"	24"	4	200 lb.	20/22	B, C, DG, S	Sandusky	**G6556**	—
	36"	24"	4	250 lb.	20	B	Hallowell	**6MNZ9**	**6MNY1**
	36"	24"	4	250 lb.	20	AG	Hallowell	**6MPA5**	**6MNY7**
	36"	24"	4	250 lb.	20	P	Hallowell	**6MNZ3**	**6MNX5**
	36"	24"	5	200 lb.	22	B, P, MG, S	Tennsco	**F0313**	—
	36"	24"	5	200 lb.	22	S	Tennsco	—	**4W541**
	48"	18"	4	250 lb.	20	B	Hallowell	**34A415**	**34A378**
	48"	18"	4	250 lb.	20	AG	Hallowell	**34A487**	**34A451**
	48"	18"	4	250 lb.	20	P	Hallowell	**34A342**	**34A306**
	48"	24"	4	250 lb.	20	B	GA	**34A418**	**34A381**
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A490**	**34A454**
	48"	24"	4	250 lb.	20	P	GA	**34A345**	**34A309**
72"	36"	18"	4	150 lb.	24	B, G, P	GA	—	**J6205**
	36"	18"	4	150 lb.	24	G, P	GA	**J6206**	—
	36"	18"	4	180 lb.	22/24	B, C, DG, S	Sandusky	**F1275**	—
	36"	24"	4	150 lb.	24	B, G, P	GA	—	**J6211**
	36"	24"	4	150 lb.	24	G, P	GA	**J6207**	—
	36"	24"	4	180 lb.	22/24	B, C, DG, S	Sandusky	**F5926**	—
Ventilated Doors									
78"	36"	18"	4	250 lb.	20	B	Hallowell	**34A396**	**34A360**
	36"	18"	4	250 lb.	20	AG	Hallowell	**34A469**	**34A433**
	36"	18"	4	250 lb.	20	P	Hallowell	**34A324**	**34A287**
	36"	24"	4	250 lb.	20	B	Hallowell	**34A398**	**34A362**
	36"	24"	4	250 lb.	20	AG	Hallowell	**34A471**	**34A435**
	36"	24"	4	250 lb.	20	P	Hallowell	**34A326**	**34A289**
	48"	18"	4	250 lb.	20	B	Hallowell	**34A417**	**34A380**
	48"	18"	4	250 lb.	20	AG	Hallowell	**34A489**	**34A453**
	48"	18"	4	250 lb.	20	P	Hallowell	—	**34A308**
	48"	24"	4	250 lb.	20	B	Hallowell	**34A420**	**34A383**
	48"	24"	4	250 lb.	20	AG	Hallowell	**34A492**	**34A456**
	48"	24"	4	250 lb.	20	P	Hallowell	**34A347**	**34A311**

** Based on evenly distributed loads. † AG Antimicrobial Gray, B Black, C Charcoal, DG Dove Gray, G Gray, MG Medium Gray, S Sand, Y Champagne/Putty*

Hallowell ★ GA GRAINGER APPROVED Sandusky tennsco Storage Made Easy

Commercial Combination Storage Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed chrome handle (key included)
- Powder-coated finish
- 1 swing handle with key lock

Include full-width top shelf, adjustable half-width shelves, and garment hanger rod. Shelves adjust on integrated support tabs and fit tightly to sides and back with no clips needed. Raised bases protect doors from damage by mops. Reinforced doors with nylon lock bar guides open 180° for full access to contents. Clearview cabinets have see-through acrylic doors to provide visibility to contents and 2 swing handles, 1 with key lock.

Hallowell Sandusky

Commercial Steel Wall-Mount Storage Cabinets

- Shelves adjust on 2" centers
- Full door height continuous hinges
- 3-pt. locking mechanism (keys included)
- Powder-coated finish

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color †	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors									
30"	36"	12"	1	150 lb.	22	B, G, P	Hallowell	**G6784**	**G6783**
26"	16"	12"	1	80 lb.	22	B, G, P	Hallowell	**G6780**	**G6779**
	30"	12"	1	150 lb.	22	B, G, P	Hallowell	**G6782**	**G6781**
Standard Doors									
30"	30"	12"	1	150 lb.	20/22	B, C, DG, Y	Sandusky	**E4143**	—
	36"	12"	1	150 lb.	22	B, G, P	Hallowell	**G6778**	**G6777**
26"	16"	12"	1	80 lb.	22	B, G, P	Hallowell	**G6774**	**G6773**
	18"	12"	1	85 lb.	20/22	B, C, DG, Y	Sandusky	**E4144**	—
	30"	12"	1	150 lb.	22	B, G, P	Hallowell	**G6776**	**G6775**

** Based on evenly distributed loads. † B Black, C Charcoal, DG Dove Gray, G Gray, P Parchment, Y Putty*



Clearview Doors
No. G6782



Standard Doors
No. E4144



Putty

Sandusky

Commercial Steel Janitorial Storage Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed chrome handle (key included)
- Powder-coated finish
- 1 swing handle with key lock
- Standard doors

Quiet closing doors have 2 sets of hinges and full-welded door stiffener to maintain alignment and rigidity.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color	ASSEMBLED Item No.
66"	30"	15"	3	85 lb.	24	Black, Charcoal, Dove Gray, Putty	G6550

** Based on evenly distributed loads.*



Sand

tennsco Storage Made Easy

Commercial Bookcase Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed brushed chrome handle (2 keys included)
- Powder-coated finish
- Dual handles
- Adjustable levers
- Standard doors

Shelves adjust on integrated support tabs and fit tightly to sides and back with no clips needed. Raised bases protect doors from damage by mops. Reinforced doors with nylon lock bar guides open 180° for full access to contents.

Height	Width	Depth	No. of Shelves	Gauge	▶CHOOSE: Color	ASSEMBLED Item No.
72"	36"	18"	5	24	Medium Gray, Sand, Black, Light Gray, Champagne Putty	D4884



Medium Gray
No. F8338

tennsco Storage Made Easy

Commercial Steel File Cabinets

- Shelves adjust in 2" increments
- 3-pt. locking mechanism with keyed brushed chrome handle (2 keys included)
- Powder-coated finish
- Dual handles
- Adjustable levers

Shelves adjust on integrated support tabs and fit tightly to sides and back with no clips needed. Raised bases protect doors from damage by mops. Reinforced doors with nylon lock bar guides open 180° for full access to contents. Combined file drawer and cabinet in one unit meets unique storage needs. Locks on cabinet and drawer are keyed the same for easy and safe security.

Height	Width	Depth	No. of Shelves	▶CHOOSE: Color	ASSEMBLED Item No.
66"	36"	18"	3	Medium Gray, Sand	F8519
42"	36"	18"	2	Medium Gray, Sand	F8338



Sandusky®

No. D4889



No. D4892

Commercial Keyless Steel Storage Cabinets

- Shelves adjust in 2" increments
- Powder-coated finish

Pull handle has electronic lock with 2 programmable passwords and keypad records cabinet entry. Exterior battery pack and hidden key provide access options in case of battery failure. Unassembled cabinets snap together for easy assembly.

CABINET CONFIGURATIONS

Storage—Includes adjustable full-width shelves.

Wall-Mount—Can also be used freestanding. Mounting hardware not included.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
Shelving Storage Cabinets								
78"	36"	18"	4	200 lb.	22	Black, Dove Gray, Putty	D4894	—
	36"	24"	4	200 lb.	22		D4896	D4891
	46"	24"	4	230 lb.	22		D4898	—
	48"	24"	4	200 lb.	22		—	D4892
72"	36"	18"	4	200 lb.	22	Dove Gray ,Putty	D4893	—
	36"	18"	4	200 lb.	22	Black, Dove Gray, Putty	—	D4889
	36"	24"	4	200 lb.	22		D4895	—
	46"	24"	4	230 lb.	22		D4897	—
Wall-Mount Storage Cabinet								
30"	30"	12"	1	150 lb.	22	Black, Dove Gray, Putty	—	D4899

** Based on evenly distributed loads.*



Radius Edge Corner

No. F8653



GA GRAINGER APPROVED

Commercial Radius Edge Corner Steel Storage Cabinets

- 20-ga. doors
- 22-ga. shelves
- Shelves adjust in 2" increments
- Recessed locking handle with nylon guides
- Powder-coated finish

Radius edge corner running the full height of the cabinet's front edge gives a soft, modern appearance. Raised base protects doors against damage from mops or brooms. Strong, reinforced doors open 180° for full access to contents. Premium flush recessed handle provides a smooth door front for added safety and protection.

Height	Width	Depth	No. of Cabinet Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color	Item No.
78"	36"	18"	4	180 lb.	24	Charcoal, Sand	F8653
78"	36"	24"	4	180 lb.	24	Charcoal, Sand	F8652
78"	48"	24"	4	180 lb.	24	Charcoal, Sand	F8651

** Based on evenly distributed loads.*



Shelving Storage Cabinet No. F8667



Desk-Height Storage Cabinet No. F8663



Wardrobe Cabinet No. F8665

Commercial Boltless Steel Storage Cabinets

GA GRAINGER APPROVED

- Interlocking panels allow cabinets to be assembled in minutes without nuts or bolts
- Shelves are adjustable in 2" increments
- 3-pt. locking system with keyed chrome handle
- Powder-coated finish
- Standard doors

Reinforced doors with nylon lock bar guides open 180° for full access to contents. Fully enclosed base protects doors from damage.

Height	Width	Depth	No. of Shelves	Shelf Cap.*	Gauge	▶CHOOSE: Color	UNASSEMBLED Item No.
Shelving Storage Cabinets							
78"	36"	18"	4	150 lb.	20	Gray, Sand, Black	F8702
	36"	24"	4	200 lb.	16/20/22	Gray, Sand, Black	F8670
72"	36"	18"	4	150 lb.	24	Gray, Sand, Black	F8667
	36"	24"	4	200 lb.	24	Gray, Sand, Black	F8666
42"	36"	18"	2	150 lb.	24	Gray, Sand, Black	F8662
30"	36"	18"	1	150 lb.	24	Gray, Sand, Black	F8663
Wardrobe Storage Cabinets							
72"	36"	18"	1	150 lb.	24	Gray, Sand, Black	F8665
Combination Storage Cabinets							
72"	36"	18"	5	150 lb.	24	Gray, Sand, Black	F8664
78"	36"	24"	5	100 lb.	16	Gray, Sand, Black	F8668
	36"	18"	5	150 lb.	16/20/22	Gray, Sand, Black	F8669

Height	Width	Depth	▶CHOOSE: Color	Item No.
Dollies				
5"	18½"	36½"	Gray, Sand, Black	D4929
6"	24½"	36½"	Gray, Black	D4931

** Based on evenly distributed loads.*

Sliding Doors No. F8471





Standard Doors No. E4491

tennsco Storage Made Easy

Commercial Jumbo Cabinets

- 20-ga. doors and sides
- 22-ga. backs
- Shelves adjust in 2" increments

Extra-wide 48" cabinets provide 33% more storage space than a standard 36"W cabinet. Each door rides on 4 heavy-duty leaf hinges to accommodate heavy loads and a 3-pt. locking system ensures security. Models with sliding doors provide an ideal solution for areas where space is restricted, such as hallways, and only add 3½"D to the cabinet.

Height	Width	Depth	No. of Cabinet Shelves	Shelf Cap.*	▶CHOOSE: Color †	ASSEMBLED Item No.	UNASSEMBLED Item No.
Shelving Storage Cabinets w/Sliding Doors							
78"	48"	27"	4	400 lb.	B, LG, MG, P, S	F8471	—
Combination Wardrobe Storage Cabinets w/Standard Doors							
78"	48"	18"	5	75 lb.	B, LG, MG, S	E4493	E4491
78"	48"	24"	5	75 lb.	MG	—	E4492
78"	48"	24"	5	75 lb.	LG	E4494	—

** Based on evenly distributed loads. † B Black, LG Light Gray, MG Medium Gray, P Parchment, S Sand*


Basic


Open


Secure


Mixed


Complete

Hallowell

Fort Knox Series Modular Storage System

Durable and aesthetically appealing, this tough utility/garage storage system features numerous components and a modular design for customization of individual workspaces. Feature heavy-duty welded storage components. Textured 2-tone colors black and red with powder-coated finish. Cabinets, pedestals, and lockers ship assembled. Individual components available, see Grainger.com®.

Description	Overall Width	Overall Height	Overall Depth	Shelf Capacity*	Work Surface Material: LAMINATED HARDWOOD Item No.	Work Surface Material: 12 GA. STEEL Item No.
Basic Modular Units						
Work Surface, Drawer Cabinets, Metal Peg Board, Light Fixture, Electrical Strip, Adjustable Peg Board Shelves	60"	78"	24"	—	22CT54	22CT55
	72"	78"	24"		22CT56	22CT57
Open Modular Units						
Work Surface, Drawer Cabinets, Metal Peg Board, Light Fixture, Electrical Strip, Adjustable Peg Board Shelves, (2) 5-Level Shelving Units	132"	78"	24"	—	22CT58	—
	132"	78"	24"	575 lb. (Shelving Unit)	—	22CT59
	168"	78"	24"	700 lb. (Shelving Unit)	22CT60	22CT61
Secure Modular Units						
Work Surface, Drawer Cabinets, Metal Peg Board, Light Fixture, Electrical Strip, Adjustable Peg Board Shelves, Lockable Extra Heavy-Duty Cabinet with 2 internal drawers, and 2 Locker Variations	132"	78"	24"	1450 lb. (Cabinet)	22CT62	22CT63
	168"	78"	24"		22CT64	22CT65
Mixed Modular Units						
Work Surface, Drawer Cabinets, Metal Peg Board, Light Fixture, Electrical Strip, Adjustable Peg Board Shelves, Lockable Heavy-Duty Cabinet with 2 Internal Drawers, Open Shelving Unit	132"	78"	24"	1450 lb. (Cabinet) / 575 lb. (Shelving Unit)	22CT66	22CT67
	168"	78"	24"	1450 lb. (Cabinet) / 700 lb. (Shelving Unit)	22CT68	22CT69
Complete Modular Units						
Work Surface, Drawer Cabinets, Metal Peg Board, Light Fixture, Electrical Strip, Adjustable Peg Board Shelves, Extra Heavy-Duty Lockable Cabinets/Lockers with Extra Drawer Space and 5-Level Open Shelving	168"	78"	24"	1450 lb. (Cabinet) / 575 lb. (Shelving Unit)	22CT70	22CT71
	210"	78"	24"	1450 lb. (Cabinet) / 700 lb. (Shelving Unit)	22CT72	22CT73

** Based on evenly distributed loads.*


System in Platinum/ Slate color


No. 49WX83


No. 49WX84


No. 32XT01


No. 49WX81


No. 49WX82


No. 49WX80


No. 49WX79

suncast

Plastic Utility Storage System

Durable resin construction resists dents and will not rust. Multi-wall panels are engineered for strength and stability. Easy to assemble with minimal tools and is virtually maintenance-free.

Note: Not intended for flammable, caustic, or hot items.

Cabinets—Feature metal reinforced adjustable shelves and padlockable doors (lock not included). All cabinets are wall-mountable.

Height	Width	Depth	No. of Cabinet Shelves	Locking Points	Shelf Capacity*	Cabinet Color	Item No.
Shelving Storage Cabinets							
80¼"	40"	20¼"	3	1 Point	75 lb.	Platinum/Slate	32XT02
	40"	20¼"	4	2 Points	200 lb.	Dark Gray	49WX83
	40"	20¼"	6	2 Points	200 lb.	Dark Gray	49WX84
72"	30"	20¼"	3	1 Point	75 lb.	Platinum/Slate	32XT01
	30"	20¼"	4	2 Points	200 lb.	Dark Gray	49WX81
	30"	20¼"	6	2 Points	200 lb.	Dark Gray	49WX82
36"	30"	20¼"	2	1 Point	75 lb.	Platinum/Slate	32XR99
	30"	20¼"	2	1 Point	200 lb.	Dark Gray	49WX80
Wall Cabinets							
30¼"	30"	12"	1	—	50 lb.	Platinum/Slate	32XR98
	30"	12"	1	1 Point	50 lb.	Dark Gray	49WX79

** Based on evenly distributed loads.*

DURHAM MFG® Est. 1922

All-Welded Bin Cabinets

Series A
- 14-ga. steel, gray powder-coated finish
- 3-pt. locking mechanism; most have 5/16" locking rod and keyed handle, No. 3NYP3 has a padlock hasp (padlock not included)

Series B—Yellow polypropylene bins are removable and have a hopper front with label holder.
- 12-ga. construction
- 6"H, 7-ga. legs for forklifting or to secure cabinet to floor
- 3-pt. locking system with padlock hasp (padlock not included)

Series C—Deep box cabinets include 7" deep forward-swing doors. Hard swivel casters help provide smooth operation during heavy loads. Include large, fixed in-place parts bins inside cabinet.
- 14-ga. steel; powder-coated finish
- 3-point locking mechanism has 3/8" lock rods
- 4" legs
- Shipped fully assembled



Standard Doors, Series B No. 33VE40



Standard Doors, Series C No. 33VE20



Box Doors, Series A No. 3NYN9

Series	Overall Dim. H	W	D	Total No. of Bins	Bins per Door	Bin Height	Bin Width	Bin Depth	Item No.
Standard Doors									
A	72"	36"	24"	132	96	(48) 3", (48) 3", (18) 5", (12) 7", (6) 7"	(48) 4", (48) 4", (18) 6", (12) 8", (6) 16"	(48) 5", (48) 7", (18) 11", (12) 15", (6) 15"	3NYL9 †
A	72"	36"	24"	208	96	3"	4"	5"	3PAT1
A	78"	48"	24"	171	128	(64) 3", (64) 3", (24) 5", (13) 7", (6) 7"	(64) 4", (64) 4", (24) 6", (13) 8", (6) 16"	(64) 5", (64) 7", (24) 11", (13) 15", (6) 15"	3NYN8 †
A	84"	72"	24"	264	192	(96) 3", (96) 3", (36) 5", (24) 7", (12) 7"	(96) 4", (96) 4", (36) 6", (24) 8", (12) 16"	(96) 5", (96) 7", (36) 11", (24) 15", (12) 15"	3NYP3 †
B	78"	36"	24"	126	96	(48) 3", (48) 3", (12) 5", (12) 7", (6) 7"	(48) 4", (48) 4", (12) 6", (12) 8", (6) 16"	(48) 5", (48) 7", (12) 11", (12) 15", (6) 15"	33VE33 †
B	78"	48"	24"	192	128	(60) 3", (84) 3", (24) 5", (24) 7"	(60) 4", (84) 4", (24) 6", (24) 8"	(60) 5", (84) 7", (24) 11", (24) 15"	33VE40 †
C	78"	36"	24"	132	96	(96) 3', (36) 7"	(96) 4", (36) 8"	(96) 5', (36) 15"	33VE20 †
Box Doors									
A	72"	36"	24"	132	96	(48) 3", (48) 3", (18) 5", (12) 7", (6) 7"	(48) 4", (48) 4", (18) 6", (12) 8", (6) 16"	(48) 5", (48) 7", (18) 11", (12) 15", (6) 15"	1UBK6 †
A	72"	48"	24"	176	128	(64) 3", (64) 3", (24) 5", (18) 7", (6) 7"	(64) 4", (64) 4", (24) 6", (18) 8", (6) 16"	(64) 5", (64) 7", (24) 11", (18) 15", (6) 15"	1UBJ6
A	78"	48"	24"	192	144	(72) 3', (72) 3", (24) 5", (18) 7", (6) 7"	(72) 4", (72) 4", (24) 6", (18) 8", (6) 16"	(72) 5', (72) 7", (24) 11", (18) 15", (6) 15"	3NYN9

† 6"H legs for forklift access or to secure cabinet to the floor.

DURHAM MFG® Est. 1922

All-Welded Bin Cabinets with Drawers

Series A
- 14-ga. steel, gray powder-coated finish
- 3-pt. locking mechanism; most have 5/16" locking rod and keyed handle

Series B—Yellow polypropylene bins are removable and include a hopper front with label holder. Drawers hold up to 400 lb., based on evenly distributed loads.
- 12-ga. steel, gray enamel finish
- 3-pt. locking system with padlock hasp (padlock not included)



Standard Doors, Series B No. 33VE37



Box Doors, Series A No. 1UBK1

Series	Overall Dim. H	W	D	Total No. of Bins	Bins per Door	Bin Height	Bin Width	Bin Depth	Total No. of Shelves	Shelf Cap.*	Total No. of Drawers	Inside Drawer H x W x D	Item No.
Standard Doors													
A	72"	36"	24"	156	96	3"	4"	5"	2	900 lb.	0	3½" x 5⅜" x 11¼"	3PAR9
B	78"	36"	24"	120	96	(96) 3", (12) 5", (12) 7"	(96) 4", (12) 6", (12) 8"	(96) 5", (12) 11", (12) 15"	1	1900 lb.	4	(2) 4" x 36" x 14", (2) 6" x 36" x 14"	33VE37 †
Box Doors													
A	72"	36"	24"	52	36	(36) 3", (12) 5", (4) 7"	(36) 4", (12) 6", (4) 8"	(36) 5", (12) 11", (4) 15"	13	900 lb.	4	(2) 3" x 28 13/16" x 14 11/16", (1) 5" x 28 13/16" x 14 11/16", (1) 6" x 28 13/16" x 14 11/16"	1UBK2
A	72"	36"	24"	58	36	(36) 3", (18) 5", (4) 7"	(36) 4", (18) 6", (4) 8"	(36) 5", (18) 11", (4) 15"	13	900 lb.	4	(2) 3" x 28 13/16" x 14 11/16", (1) 5" x 28 13/16" x 14 11/16", (1) 6" x 28 13/16" x 14 11/16"	1UBK1 †
A	72"	48"	24"	72	56	(56) 3", (8) 5", (6) 7", (2) 7"	(56) 4", (8) 6", (6) 8", (2) 16"	(56) 5", (8) 11", (6) 15", (2) 15"	13	900 lb.	4	(2) 3" x 40 13/16" x 14 11/16", (1) 5" x 40 13/16" x 14 11/16", (1) 6" x 40 13/16" x 14 11/16"	1UBJ5
B	78"	60"	36"	78	78	(60) 3", (18) 6½"	(60) 4", (18) 15"	(60) 5", (18) 5¾"	2	1625 lb.	4	(2) 4" x 30 9/16" x 20 1/8", (2) 6" x 30 9/16" x 20 1/8"	33VE41 †

Description	Item No.
Additional Cabinet Shelves	
For Use w/Nos. 1UBK1 through 1UBK6	1UBJ2
For Use w/Nos. 1UBJ4 through 1UBJ9	1UBH9

Description	Item No.
Additional Door Shelves	
For Use w/Nos. 1UBK1 and 1UBK6	1UBJ3
For Use w/Nos. 1UBJ4 and 1UBJ9	1UBJ1

** Based on evenly distributed loads. † 6"H legs for forklift access or to secure cabinet to the floor.*



Standard Doors, Series A No. 3NYN7



Standard Doors, Series C No. 33VE31



Box Doors, Series B No. 33VE23



Box Doors, Series D No. 1UBK9

DURHAM MFG Est. 1922

All-Welded Cabinets with Shelves

- Standard Doors are flush in order to mount cabinets next to each other and the smaller depth allows doors to fully open
- Box Doors allow full-size bins to store on its doors for additional storage, plus the greater door depth provides extra strength and rigidity

Series A
- 14-ga. steel, gray powder-coated finish
- Shelves adjust in 4" increments
- 3-pt. locking mechanism; most have 5/16" locking rod and keyed handle
- No. 3NYP4 has a padlock hasp (padlock not included)

Series B—Shelves and bins hook into place; no tools required.
- 14-ga. steel; textured powder-coated finish
- 1450-lb. shelf capacity, based on evenly distributed loads
- 3-point locking mechanism with 5/16" lock rods
- Shipped fully assembled

Series C—Shelves bolt into place using included fasteners. Bins hook into place; no tools required.
- 12-ga. steel; powder-coated finish
- 3-pt. locking system with 3/8" rods and padlock hasp (padlock not included)

Series D—Include 4" deep "pocket doors" with hinges and leveling feet.
- 14-ga. steel; gray powder-coated finish
- 30-lb. capacity door shelves adjust in 2" increments
- 700/800-lb. capacity interior shelves adjust in 4½" increments
- Cabinets lock with padlock (not included)
- Cabinets shipped fully assembled; bins, louvered panels, and shelves shipped separately

Bin Cabinet Without Bins—Adjustable shelves on louver uprights adjust on 4" centers; no tools required. Doors open at 180° for full and easy access.
- 14-ga. steel; textured powder-coated finish
- 3-pt. locking system with 5/16" rods

Series	Overall Dim. H	W	D	Total No. of Bins	Bins per Door	Bin Height	Bin Width	Bin Depth	Total No. of Shelves	Shelf Cap.*	Item No.
Standard Doors, Includes Bins											
A	72"	36"	18"	14	0	(12) 7", (2) 7"	(12) 8", (2) 16"	(12) 15", (2) 15"	2	1250 lb.	**3NYL3**
A	72"	36"	24"	102	96	(48) 3", (48) 3", (6) 7"	(48) 4", (48) 4", (6) 16"	(48) 5", (48) 7", (6) 15"	3	1250 lb.	**3NYL8**
A	78"	48"	24"	137	128	(64) 3", (64) 3", (3) 7", (6) 7"	(64) 4", (64) 4", (3) 8", (6) 16"	(64) 5", (64) 7", (3) 15", (6) 15"	3	700 lb.	**3NYN7** †
A	78"	48"	24"	212	192	(96) 3", (96) 3", (8) 7", (12) 7"	(96) 4", (96) 4", (8) 8", (12) 16"	(96) 5", (96) 7", (8) 15", (12) 15"	3	700 lb.	**3NYP4** †
B	78"	36"	24"	16	0	7"	8"	15"	3	1900 lb.	**33VE21** †
C	78"	36"	24"	134	120	(48) 3", (48) 3", (8) 7", (6) 7"	(60) 4", (60) 4", (8) 8", (6) 16"	(60) 5", (60) 7", (8) 15", (6) 15"	4	1900 lb.	**33VE30** †
C	78"	36"	24"	108	96	(96) 3", (12) 7"	(96) 4", (12) 8"	(96) 7", (12) 15"	3	1900 lb.	**33VE32** †
C	78"	36"	24"	96	96	3"	4"	5"	4	1900 lb.	**33VE35** †
C	78"	36"	24"	60	48	(48) 3", (12) 7"	(48) 4", (12) 8"	(48) 5", (12) 15"	4	1900 lb.	**33VE42** †
C	78"	48"	24"	144	120	(120) 3", (24) 3"	(120) 4", (24) 4"	(120) 5", (24) 7"	4	1200 lb.	**33VE31** †
C	78"	48"	24"	156	120	(120) 3", (20) 5", (12) 7"	(120) 4", (20) 6", (12) 8"	(120) 5", (20) 11", (12) 15"	4	1900 lb.	**33VE44** †
Box Doors, Includes Bins											
A	72"	36"	24"	64	48	(48) 3", (16) 7"	(48) 4", (16) 8"	(48) 7", (16) 15"	8	1250 lb.	**1UBK3**
A	72"	36"	24"	96	96	3"	4"	5"	4	900 lb.	**1UBK5**
A	72"	48"	24"	84	64	(64) 7", (20) 15"	(64) 4", (20) 8"	(64) 3", (20) 7"	8	750 lb.	**1UBJ7**
A	72"	48"	24"	128	0	3"	4"	5"	4	750 lb.	**1UBJ8**
B	72"	36"	24"	48	48	3"	4"	5"	10	900 lb.	**33VE23**
B	72"	48"	24"	114	78	(72) 3", (24) 5", (12) 7", (6) 7"	(72) 4", (24) 6", (12) 8", (6) 16"	(72) 7", (24) 11", (12) 15", (6) 15"	6	700 lb.	**33VE26**
B	72"	48"	24"	72	72	3"	4"	5"	10	700 lb.	**33VE28**
B	78"	48"	24"	185	170	(64) 3", (64) 3", (3) 7", (6) 7"	(80) 4", (80) 4", (6) 8", (8) 16"	(80) 5", (90) 7", (6) 15", (9) 15"	3	700 lb.	**33VE45**
C	36"	36"	24"	48	48	3"	4"	5"	2	900 lb.	**33VE22**
C	78"	36"	36"	36	12	(24) 6½", (12) 7"	(24) 15", (12) 8"	(16) 14¾", (24) 5¾"	2	1900 lb.	**33VE34** †
C	78"	36"	36"	12	12	(12) 6½"	(12) 8", (24) 15"	(12) 15"	10	1900 lb.	**33VE36** †
C	78"	36"	36"	24	24	6½"	15"	5¾"	4	1900 lb.	**33VE39** †
C	78"	48"	36"	36	24	(12) 7", (24) 6½"	(12) 8", (24) 15"	(12) 15", (24) 5¾"	4	1900 lb.	**33VE43** †
D	72"	36"	18"	15	0	5"	6"	11"	2	1250 lb.	**1UBK9**
Box Door Cabinets Without Bins											
12 Door Shelves	72"	36"	24"	0	0	—	—	—	16	1250 lb.	**1UBK4**
12 Door Shelves	72"	48"	24"	0	0	—	—	—	16	750 lb.	**33VE27**
14 Door Shelves	72"	48"	24"	0	0	—	—	—	16	750 lb.	**1UBJ9**
14 Door Shelves	84"	48"	24"	0	0	—	—	—	18	750 lb.	**1UBJ4**

** Based on evenly distributed loads. † 6"H legs for forklift access or to secure cabinet to the floor.*

Selecting Storage Bins

BIN TYPES

Hanging—A lip on the back of the bin allows it to be hung from a rack or panel.

Hopper-Front—The most-common type of bin has a partially-open front that provides easy access to contents.

Nesting—When empty, bins slide inside each other to save space.

Stacking—Bins may be placed on top of one another to save space.

Tote—All 4 walls are of equal height; there is no hopper. Can be filled to near the top rim.

BIN MATERIAL

Corrugated—Lightweight, inexpensive bins usually ship unassembled.

Conductive/ESD—Designed to protect sensitive parts from static discharge. Conductive materials have a surface resistance of less than 1 x 10^5 ohms/sq. Dissipative items have a surface resistance of more than 1 x 10^5 ohms/sq., but less than 1 x 10^{11} ohms/sq.

Polypropylene—High-impact plastic resin is known for its stiffness and durability.

Fiberglass-Reinforced Plastic—Has higher impact resistance, higher weight capacity, and better resistance to heat than plastics not impregnated with fiberglass.

Polyethylene—High-flexibility plastic resin provides better crack resistance.

Steel—Galvanized metal sheet can be exposed to aggressive chemicals and extreme temperature variations up to 375ºF.

Wire Mesh—Dust- and dirt-free storage offers instant visibility of stored product. Bins can stack or hang.

BIN SYSTEMS

Rail Systems—Economical systems are constructed of individual flat steel rails that span between uprights. Used to hold hanging bins that are all the same size. User must know at the time of assembly what size bin will be used so that rails can be spaced accordingly.

Panel Systems—Constructed of flat steel panels that span between uprights. Most-commonly used to hold a combination of multiple-size hanging bins, which can be easily placed exactly where needed on the rack.

Pick Rack Systems—Sloped shelves keep shelf bins or system bins at an angle so that parts stay at the front of the bin for easy picking.

Shelving Systems—These units typically have higher weight capacities than other rack systems and can be used with any size or type of bin. Traditional steel shelving is least expensive; chrome-plated wire shelving tends to collect less dust.

Bin Carts—Mobile units provide easy organization and a convenient work surface.



No. J5787
Blue



No. J5789
Green



No. J5791
Red



No. J5793
Yellow

Hang and Stack Bins

GA GRAINGER APPROVED

Industrial grade polymer construction. Same-size bins are stackable to make best use of space on shelves and benches. Bins hang from rail and panel systems to create efficient storage. Each bin has one slot for a length divider and one for a width-wise divider. Ideal for inventory control and Kanban systems.

Load Capacity	Outside L	Outside W	Outside H	Bin Color	HANG AND STACK BINS Item No.	HANG AND STACK BINS Pkg. Qty.	FRONT TO BACK DIVIDERS Item No.	FRONT TO BACK DIVIDERS Pkg. Qty.	SIDE TO SIDE DIVIDERS Item No.	SIDE TO SIDE DIVIDERS Pkg. Qty.
7 lb.	5⅜"	4⅛"	3"	Blue, Yellow, Red, Green	J5787	1	54DE74	6	—	
7 lb.	7⅜"	4⅛"	3"		J5788	1	54DE75	6	54DE76	6
20 lb.	11"	5½"	5"		J5789	1	54DE77	6	54DE78	6
35 lb.	11"	11"	5"		J5790	1	54DE77	6	54DE79	6
35 lb.	11"	8¼"	7"		J5791	1	54DE80	6	—	
40 lb.	14¾"	8¼"	7"		J5792	1	54DE82	8	54DE81	8
50 lb.	14¾"	16½"	7"		J5793	1	54DE82	8	54DE83	8

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done



Stack and Hang Bin
No. 10H835



Mobile Stack Bin
No. 6GAP3

Shelf Bin
No. 6GAR5

Clear View Bins and Shelving Units

QUANTUM™ STORAGE SYSTEMS

Store and organize items in clear, stackable open hopper front bins. Heavy-duty. Additional Shelving Units and Bins are available, see Grainger.com®.

Outside L	Outside W	Outside H	Load Cap.	BINS Item No.	BINS Pkg. Qty.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
Hang and Stack Bins							
5"	4⅛"	3"	8 lb.	**10H835**	1	**33Z354**	6
5⅜"	4⅛"	3"	10 lb.	**10H836**	1	**8Y078**	6
7⅜"	4⅛"	3"	10 lb.	**10H837**	1	**9T480**	6
9¼"	6"	5"	20 lb.	**10H838**	1	**33Z355**	6
10¾"	8¼"	7"	50 lb.	**10H844**	1	**9AFJ3**	6
10⅞"	4⅛"	4"	30 lb.	**10H839**	1	**8DA43**	6
	5½"	5"	30 lb.	**10H840**	1	**9ME47**	6
	11"	5"	50 lb.	**10H843**	1	**9ME47**	6
	16½"	5"	60 lb.	**10H848**	1	**8C771**	6
13⅜"	8¼"	6"	60 lb.	**10H846**	1	**33Z356**	6
	8¼"	8"	60 lb.	**10H847**	1	**33Z357**	6
14¾"	5½"	5"	50 lb.	**10H842**	1	**8PCC3**	6
	8¼"	7"	60 lb.	**10H845**	1	**9NPP0**	6
	16½"	7"	75 lb.	**10H849**	1	**9NPP0**	6
16"	11"	8"	75 lb.	**10H850**	1	**9ME48**	6
18"	8¼"	9"	60 lb.	**10H852**	1	**9WKE2**	6
	11"	10"	75 lb.	**10H851**	1	**8C773**	6
	16½"	11"	75 lb.	**10H853**	1	**8C774**	6
Mobile Bins							
18"	16½"	14"	75 lb.	**10H854**	1	**8C774**	6
23⅞"	16½"	14"	250 lb.	**6GAP3**	1	**11M595**	6
	18¼"	15"	250 lb.	**6GAP5**	1	**11M596**	6
Shelf Bins							
11⅝"	2¾"	4"	50 lb.	**6GAR5**	1	—	—
	4⅛"	4"	50 lb.	**6GAR6**	1	**8PCC8**	50
	6⅜"	4"	50 lb.	**6GAR7**	1	**8C964**	50
	6⅜"	6"	30 lb.	**49H215**	1	**2ZMR3**	50
	8⅜"	4"	50 lb.	**6ECE7**	1	**9WTC4**	50
	8⅜"	6"	50 lb.	**49H216**	1	**2ZMR4**	50
	11⅛"	4"	50 lb.	**6ECE8**	1	**8C965**	50
17⅞"	4⅛"	4"	50 lb.	**6ECE9**	1	**8PCC8**	50
	6⅜"	4"	50 lb.	**6ECF0**	1	**8C964**	50
	6⅜"	6"	40 lb.	**49H219**	1	**2ZMR3**	50
	8⅜"	4"	50 lb.	**6ECF1**	1	**9WTC4**	50
	8⅜"	6"	50 lb.	**49H220**	1	**2ZMR4**	50
	11⅛"	4"	50 lb.	**6ECF2**	1	**8C965**	50
	11⅛"	6"	60 lb.	**49H221**	1	**2ZMR5**	50
	11⅛"	8"	70 lb.	**49H209**	1	**33Z353**	50
23⅝"	4⅛"	4"	50 lb.	**6ECF3**	1	**8PCC8**	50
	4⅛"	8"	60 lb.	**49H210**	1	**33Z350**	50
	6⅜"	4"	50 lb.	**6ECF4**	1	**8C964**	50
	6⅜"	6"	50 lb.	**49H223**	1	**2ZMR3**	50
	8⅜"	4"	50 lb.	**6ECF5**	1	**9WTC4**	50
	8⅜"	6"	65 lb.	**49H224**	1	**2ZMR4**	50
	8⅜"	8"	75 lb.	**49H212**	1	**33Z352**	50
	11⅛"	4"	50 lb.	**6ECF6**	1	**8C965**	50
	11⅛"	8"	75 lb.	**49H213**	1	**33Z353**	50

Includes	No. of Shelves	Overall Depth	Overall Width	Overall Height	Load Capacity	Item No.
Wire Shelving Units with Clear Bins						
(8) 18¼"W x 23⅞"D x 12"H Bins	5	24"	42"	74"	4000 lb.	**6GAR4**
(10) 16½"W x 23⅞"D x 11"H Bins	6	24"	36"	74"	4800 lb.	**6GAR2**
(15) 11"W x 23⅞"D x 10"H Bins	6	24"	36"	74"	4800 lb.	**6GAR1**
(55) 6⅜"W x 11⅝"D x 4"H Bins	12	12"	36"	74"	9600 lb.	**6ECF8**

Includes	Overall Depth	Overall Width	Overall Height	Load Capacity	Item No.
Single Gray Louvered Bench Racks					
(12) 5½"W x 10⅞"D x 5"H Clear Bins	¼"	27"	21"	140 lb.	**10E923**
(18) 5½"W x 10⅞"D x 5"H Clear Bins	¼"	36"	19"	150 lb.	**10E926**
(24) 4⅛"W x 5⅜"D x 3"H Clear Bins	¼"	27"	21"	140 lb.	**10E921**
(32) 4⅛"W x 5⅜"D x 3"H Clear Bins	¼"	36"	19"	150 lb.	**10E924**
(32) 4⅛"W x 7⅜"D x 3"H Clear Bins	¼"	36"	19"	150 lb.	**10E925**
Single-Sided Gray Bin Rail Rack					
(16) 7⅜" x 4⅛" x 3", (18) 10⅞" x 5½" x 5", (12) 14¾" x 8¼" x 7" Clear Bins	15"	36"	53"	600 lb.	**10E954**
Double-Sided Gray Bin Rail Racks					
(96) 5½"W x 10⅞"D x 5"H Clear Bins	20"	36"	53"	1600 lb.	**10E956**
Without Bins	24"	36"	53"	500 lb.	**4RR26**
Single-Sided Gray Louvered Panels					
(32) 4⅛"W x 5⅜"D x 3"H Clear Bins	¼"	36"	19"	175 lb.	**10E930**
(60) 5½"W x 10⅞"D x 5"H Clear Bins	1"	36"	61"	500 lb.	**10E934**
(120) 4⅛"W x 7⅜"D x 3"H Clear Bins	1"	36"	61"	500 lb.	**10E933**
Double-Sided Gray Mobile Louvered Floor Racks					
(72) 10⅞"W x 5½"D x 5"H and (24) 14¾"W x 8¼"D x 7"H Clear Bins	25"	36"	72"	1200 lb.	**10E962**
(120) 5½"W x 10⅞"D x 5"H Clear Bins	25"	36"	72"	1200 lb.	**10E960**



Shelf Bin
No. 40K437

Louvered Floor Rack
No. 40K481



AKRO-MILS®

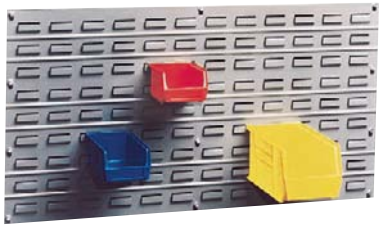
Plastic Shelf Bins and Shelving Units

Clear bins and shelving keep contents visible and allow you to quickly identify your stored parts and supplies. Additional Shelving Units and Bins are available, see Grainger.com®.

Outside L	Outside W	Outside H	Load Capacity	BINS Item No.	BINS Pkg. Qty.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
Plastic Shelf Bins							
11⅝"	2¾"	4"	7 lb.	**40K437**	1	—	—
	4⅛"	4"	10 lb.	**40K438**	1	**3A563**	24
	4⅛"	6"	20 lb.	**40K450**	1	**4KEX9**	12
	6⅜"	4"	15 lb.	**40K441**	1	**3A564**	24
	6⅜"	6"	30 lb.	**40K454**	1	**4KEY1**	12
	8⅜"	4"	15 lb.	**40K443**	1	**3A565**	24
	8⅜"	6"	35 lb.	**40K452**	1	**10F123**	12
	11⅛"	4"	20 lb.	**40K446**	1	**6A278**	24
17⅞"	4⅛"	4"	15 lb.	**40K440**	1	**3A563**	24
	4⅛"	6"	25 lb.	**40K451**	1	**4KEX9**	12
	6⅜"	4"	20 lb.	**40K442**	1	**3A564**	24
	6⅜"	6"	35 lb.	**40K456**	1	**4KEY1**	12
	8⅛"	4"	20 lb.	**40K444**	1	**3A565**	24
	8⅜"	6"	35 lb.	**40K453**	1	**10F123**	12
	11⅛"	4"	20 lb.	**40K448**	1	**6A278**	24
23⅝"	4⅛"	4"	20 lb.	**40K439**	1	**3A563**	24
	6⅜"	4"	20 lb.	**40K445**	1	**3A564**	24
	6⅜"	6"	35 lb.	**40K455**	1	**4KEY1**	12
	8⅜"	6"	35 lb.	**40J801**	1	**10F123**	12
	8⅞"	4"	20 lb.	**40K449**	1	**3A565**	24
	11⅛"	4"	20 lb.	**40K447**	1	**3A563**	24
	11⅛"	6"	35 lb.	**40J782**	1	—	—

Includes	No. of Shelves	Overall Depth	Overall Width	Overall Height	Load Capacity	Item No.
Wire Shelving Units with Clear AkroBins®						
(10) 16½"W x 23⅞"D x 11"H Bins	3	24"	36"	74"	2000 lb.	**40K511**

Includes	Overall Depth	Overall Width	Overall Height	Load Capacity	Item No.
Single-Sided Gray Louvered Floor Racks with Clear AkroBins®					
(36) 8¼"W x 14¾"D x 7"H Bins	17"	35¾"	75⅛"	1000 lb.	**40K481**
Wall-Mounted Gray Louvered Panel with Clear AkroBins®					
(24) 8¼"W x 14¾"D x 7"H Bins	8¾"	36"	61"	1000 lb.	**40K466**



Louvered Panel
No. H4609



Louvered
Floor Rack
No. H3972



Floor Rack,
2-Sided
No. 5YM90



Bin Utility Cart
No. 5YM99



Wire Louvered
Panel
No. 49H198

AKRO-MILS® QUANTUM™ STORAGE SYSTEMS

Floor and Wall Hanging Systems

AKRO-MILS® FLOOR AND WALL HANGING SYSTEM

- 16-ga. steel construction
- Powder-coated finish
- Used to hang AkroBins® (not included)

Louvered Panels—Versatile panels can be installed on shelving, workbenches, walls, or even inside service vans. Mounting hardware not included. Louvered panel hooks are available, see Grainger.com®.

Louvered Bench Racks—Ideal for use on workstations. Side supports bolt onto unit.

Louvered Floor Racks—Racks provide high-density storage. Assembly required.

Rail Floor Racks—Ideal for creating stationary storage islands.

Rail Mobile Kit—Converts 2-sided floor rack No. 5YM90 into mobile storage center. Includes reinforcing braces, handle, and 4" polyolefin wheel casters. Rear caster locks to prevent rolling.

Structural Foam Bin Utility Cart—Mobile workstation has a sturdy top that converts from box top to flat top and provides a convenient work surface. Bin Rail Accessory Kit No. 4YT93 must be used to hang bins on cart.

Bin Cart—Cart provides mobile, easy organization and parts retrieval. Double-sided rails can be picked from both sides. 14-ga. steel worktop.

QUANTUM™ FLOOR AND WALL HANGING SYSTEM

- 16-ga. steel construction
- Bins sold separately

Louvered Panels and Racks—Modular and economical wall-mount system hangs bins to add valuable storage space. High load capacities. Baked enamel finish resists rust and corrosion.

Rail Systems—Economical way to store several bins of different sizes in a small area. Can be single- or double-sided; configure to fit any application.

Description	D	Overall W	H	Load Capacity	▶CHOOSE: Color	Item No.	
Akro-Mils® Louvered Hanging Systems							
Louvered Panel	5/16"	18"	19"	140 lb.	Gray	**H4608**	*
	5/16"	18"	19"	160 lb.	White	**H4608**	*
	5/16"	18"	61"	500 lb.	Gray	**1UMD7**	*
	5/16"	35¾"	19"	160 lb.	Beige, Gray, White	**H4609**	*
	5/16"	36"	61"	1000 lb.	Beige, Gray	**H3996**	*
	1"	52"	34⅛"	750 lb.	Gray	**40L708**	
Spinning Louvered Bench Rack	18"	16"	32"	200 lb.	Gray	**36MX76**	
Louvered Bench Rack	8"	36"	20"	120 lb.	Gray	**1UMD9**	
	8 9/16"	27 15/16"	19 9/16"	120 lb.	Gray	**H4610**	
Louvered Floor Rack, 1-Sided	13½"	36 3/16"	66⅜"	500 lb.	Gray	**H3972**	
	17"	35¾"	75⅛"	1000 lb.	Gray	**1UME5**	
Louvered Floor Rack, 2-Sided	25"	36 3/16"	66⅜"	1000 lb.	Gray	**H4579**	
	32"	35¾"	75⅛"	2000 lb.	Gray	**4TJ79**	
Akro-Mils® Rail Hanging Systems							
Bin Rail Floor Rack, 1-Sided	14⅛"	36"	53"	250 lb.	Gray	**3AA11**	
Bin Rail Floor Rack, 2-Sided	20"	36"	53"	500 lb.	Gray	**5YM90**	
Structural Foam Bin Utility Cart	42"	19"	34"	400 lb.	Gray	**5YM99**	
Structural Foam Bin Utility Cart w/Cup Holder	46"	24"	34"	400 lb.	Gray	**4YT95**	
Bin Cart	24"	38½"	36½"	250 lb.	Gray	**5W888**	
Akro-Mils® Accessories							
Dolly for use with No. H4579	37"	26"	6"	700 lb.	Gray	**1UME4**	
Mobile Kit for use with No. 5YM90	—	—	5½"	500 lb.	Gray	**5W876**	
Bin Rail Accessory Kit for No. 4YT95	—	—	—	400 lb.	Gray	**4YT93**	

** Priced each, sold in cartons of 4 only.*

Akro Item	Quantum Item	MAXIMUM NO. OF BINS PER SYSTEM/RACK Choose No. of Bins Based on Size: 5⅜ x 4⅛"	7⅜ x 4⅛"	10⅞ x 4⅛"	10⅞ x 5½"	14¾ x 5½"	10⅞ x 11"	10¾ x 8¼"	14¾" x 8¼"	14¾ x 16½"	10⅞ x 16½"	18 x 11"
For Rail Hanging Systems												
3AA11	33Z143	96	96	48	48	48	24	24	24	12	16	8
5YM90	33Z142	192	192	96	96	96	48	48	48	24	32	16
N/A	33Z140	192	192	—	—	—	—	48	48	24	16	—
N/A	33Z141	96	96	—	—	—	—	24	24	12	—	8
For Louvered Hanging Systems												
H4608	G6998	16	16	12	9	9	3	4	4	2	3	—
H4609	H4578	32	32	24	18	18	9	8	8	4	6	3
40L708	—	96	96	60	45	45	20	24	24	12	—	8
1UMD7	G6999	48	48	36	30	30	14	12	12	6	9	—
H3996	G7000	120	120	80	60	60	30	28	28	14	20	10
H4610	33Z135	30	30	18	12	12	6	6	6	—	—	—
1UMD9	33Z137	40	40	24	18	18	9	8	8	4	6	3
1UME5	N/A	144	144	98	72	72	36	36	36	18	24	11
H3972	33Z145	120	120	80	60	60	30	28	28	14	20	10
H4579	33Z138	192	192	144	108	108	56	48	48	24	36	20
4TJ79	N/A	288	288	192	144	144	72	72	72	36	48	24
N/A	33Z116	18	18	12	12	12	6	4	4	2	4	2
N/A	33Z120	55	55	24	24	24	12	10	10	4	6	2
N/A	G7001	165	165	80	80	80	40	35	35	14	20	10
N/A	33Z134	16	16	12	9	9	3	4	4	2	3	1
N/A	33Z136	18	18	12	12	12	6	4	4	2	4	2
N/A	33Z144	60	60	30	30	30	15	14	14	7	10	5
N/A	33Z139	240	240	160	120	120	60	56	56	28	40	20
Structural Foam Bin Utility Carts												
5YM99	N/A	70	70	42	30	—	12	12	—	—	—	—
4YT95	N/A	80	80	48	36	36	18	16	16	8	12	—
Wire Louvered Panels with Wire Hang and Stack Bins												
N/A	49H198	32	32	—	18	—	9	8	8	4	3	2
N/A	49H199	56	56	—	30	—	15	16	16	6	6	6
N/A	49H201	77	77	—	40	—	20	20	2	8	12	6

Description	D	Overall W	H	Load Capacity	▶CHOOSE: Color	Item No.
Quantum™ Louvered Hanging Systems						
Louvered Panel	¼"	18"	19"	175 lb.	Oyster White, Gray	**G6998**
	¼"	18"	61"	175 lb.	Oyster White	**G6999**
	1½"	18"	61"	175 lb.	Gray	**G6999**
	¼"	27"	21"	175 lb.	Gray	**33Z115**
	¼"	36"	12"	175 lb.	Gray	**33Z116**
	¼"	36"	19"	175 lb.	Oyster White, Gray	**H4578**
	1"	36"	61"	500 lb.	Oyster White	**G7000**
	½"	36"	61"	500 lb.	Gray	**G7000**
	1"	48"	19"	250 lb.	Gray	**33Z120**
	1"	48"	61"	500 lb.	Oyster White, Gray	**G7001**
Wire Louvered Panel	1"	18"	36"	175 lb.	Chrome	**49H198**
	1"	36"	30"	175 lb.	Chrome	**49H199**
	1"	30"	48"	250 Lb.	Chrome	**49H201**
Louvered Bench Rack	¼"	18"	19"	140 lb.	Gray	**33Z134**
	¼"	27"	21"	150 lb.	Gray	**33Z135**
	¼"	36"	12"	150 lb.	Gray	**33Z136**
	¼"	36"	19"	125 lb.	Gray	**33Z137**
Louvered Floor Rack, 1-Sided	12"	36"	66"	800 lb.	Gray	**33Z145**
	12½"	18"	66"	375 lb.	Gray	**33Z144**
Louvered Floor Rack, 2-Sided	25"	36"	66"	2000 lb.	Gray	**33Z138**
	25"	36"	72"	1200 lb.	Gray	**33Z139**
Quantum™ Rail Systems						
Rail System w/12 Rails	20"	36"	53"	1600 lb.	Gray	**33Z140**
Rail System w/16 Rails	20"	36"	53"	1600 lb.	Gray	**33Z142**
Rail System, 1-Sided	15"	36"	53"	600 lb.	Gray	**33Z141**
Rail System, 2-Sided	15"	36"	53"	600 lb.	Gray	**33Z143**
Wall Rail	—	¼"	3"	125 lb.	Gray	**8EZW4**
Quantum™ Accessories						
Mobile Kit for use with Nos. 33Z140 and 33Z142	36"	25"	72"	—	Gray	**9MHY8**
Mobile Kit for use with No. 33Z138	—	—	—	—	Gray	**10E997**



Yellow Bin, No. F8647



Black Bin No. F8699



Green Bin, No. F8697



Light Blue Bin, No. D5417



Wire Shelving Units w/Blue Bins, No. D5367



Wire Shelving Unit w/Red Bins, No. D5519

AKRO-MILS®

AkroBins® Hanging Plastic Bins and Wire Shelving Units

- For additional Bin Shelving Units, see Grainger.com®

Hang bins from racks and panels; reinforced rib design prevents sides from spreading when loaded or stacked. All bins (except 18"D models) have slot on front panel for inventory cards or large labels. Full-width hanger lip supports heavy loads. Black plastic dividers and clear lids sold separately.

Wire Shelving Units with Bins—Chrome-plated shelving comes complete with colored bins. Assembles easily. All units are 14"D x 36"W x 74"H and include 4 posts. 800-lb. shelf capacity; 2000-lb. total load capacity per unit. Meet NSF standards.

Outside D	Outside W	Outside H	▶CHOOSE: Color	BINS Item No.	BIN LIDS Item No.	DIVIDERS PKG. of 6 Item No.
Stack and Hang Bins						
Standard Colors						
5⅜"	4⅛"	3"	Black, Blue, Clear, Green, Red, Stone, Yellow	F8648	46U433	5KY84
7⅜"	4⅛"	3"		F8647	46U434	5KY85
10¾"	8¼"	7"		F8698	—	5KY87
10⅞"	4⅛"	4"		F8685	46U437	20XK04
10⅞"	5½"	5"		F8657	46U435	5KY86
10⅞"	11"	5"		F8699	46U436	5KY86
10⅞"	16½"	5"		F8695	—	5KY86
14¾"	5½"	5"		F8659	—	20XK05
14¾"	8¼"	7"		F8697	—	5KY88
14¾"	16½"	7"		F8696	—	5KY88
18"	8¼"	9"		F8694 †	—	5KY89
18"	11"	10"		F8691 †	—	20XK06
18"	16½"	11"		F8693 †	—	5KY90
Premium Colors						
10⅞"	5½"	5"	Light Blue, Purple	D5417	46U435	5KY86
10⅞"	11"	5"	Purple	D5418	46U436	5KY86
14¾"	8¼"	7"	Light Blue, Purple	D5419	—	5KY88
14¾"	16½"	7"		D5421	—	5KY88

† 18"D bins are not recommended for use on rail and louvered hanging systems.

Description	▶CHOOSE: Bin Color	Item No.
Wire Shelving Unit with Bins		
Includes (9) 18"D x 16½"W x 11"H Bins	Black, Blue, Clear, Green, Red, Yellow	D5367
Includes (18) 14¾"D x 16½"W x 7"H Bins		D5521
Includes (24) 18"D x 11"W x 10"H Bins	Black, Blue, Clear, Green, Red, Stone, Yellow	D5366
Includes (36) 14¾"D x 8¼"W x 7"H Bins		D5519

Description	H	W	Item No.
Bin Rail			
For AkroBins up to 14¾"D	3"	47¾"	6GDD0

Description	Color	Item No.	Pkg. Qty.
Printer Labels and Card Stock Holders			
13⁄16 x 3" Card Stock Holder	Clear/White	21D064	25
1 x 3" Label Holder	Clear/White	21D065	25
1¾ x 4" Label Holder	Clear/White	21D066	25



No. G0165



No. F0598



No. F0610

Ultra Stack and Hang Plastic and Wire Shelving Units

QUANTUM™ STORAGE SYSTEMS

- For additional Bin Shelving Units, see Grainger.com®
- For clear bins, see page 1280

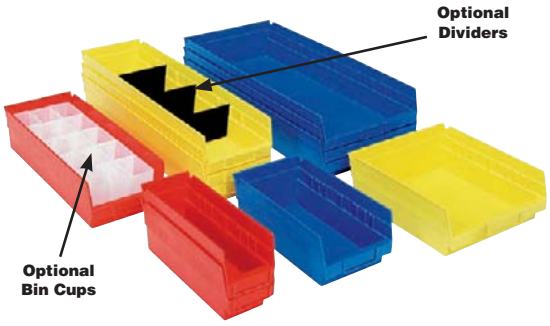
Stackable and hanging bins provide an ideal, customized storage space solution. Durable injection molded bins are impervious to most chemicals. Industrial strength wire shelving allows shelves to be adjusted; smaller or larger depending upon requirements, creating a useful, workable storage system. Easy assembly, no tools required.

Outside D	Outside W	Outside H	▶CHOOSE: Bin Color	BINS Item No.	DIVIDERS, PKG. of 6 Item No.	WINDOWS Item No.
Stack and Hang Bins						
5"	4⅛"	3"	Black, Blue, Green, Ivory, Red, Yellow	G0165	33Z354	—
5⅜"	4⅛"	3"		F0598	8Y078	—
7⅜"	4⅛"	3"		F0599	9T480	—
9¼"	6"	5"		G7039	33Z355	33Z128
10⅞"	4⅛"	4"		E1526	8DA43	9MGZ9
11"	5½"	5"		F0600	9ME47	9KGM6
11"	8¼"	7"		F0604	9AFJ3	8D886
11"	11"	5"		F0603	9ME47	9J668
11"	16½"	5"		F0606	8C771	9R505
13⅜"	8¼"	6"		G7040	33Z356	33Z129
13⅜"	8¼"	8"		G7041	33Z357	33Z130
14¾"	5½"	5"		F0602	8PCC3	9KGM6
14¾"	8¼"	7"		F0605	9NPP0	8D886
14¾"	16½"	7"		F0607	9NPP0	8UNA6
16"	11"	8"		F0608	9ME48	9EYL1
18"	8¼"	9"		F0610	9WKE2	9MGZ6
18"	11"	10"		F0609	8C773	8Y470
18"	16½"	11"		F0611	8C774	8NGN7
Mobile Stack and Hang Bins						
18"	16½"	11"	Black, Blue	G7042	8C774	8NGN7

Description	▶CHOOSE: Bin Color	Item No.
Wire Shelving Units With Bins		
Includes (36) 5½ x 5 x 10⅞" and (12) 8¼ x 7 x 14¾" Bins	Black, Blue, Green, Red, Yellow	G7059
Includes (28) 10¾"D x 8¼"W x 7"H Bins	Blue, Green, Yellow	G7065
Includes (28) 14¾"D x 8¼"W x 7"H Bins	Blue, Red, Yellow	G7066
Includes (21) 16"D x 11"W x 8"H Bins	Blue	33Z212
Includes (20) 17⅞"D x 8¼"W x 9"H Bins	Black, Green, Yellow, Blue	E3963
Includes (15) 18"D x 11"W x 10"H Bins	Green, Ivory, Red	G7064
Includes (14) 14¾"D x 16½"W x 7"H Bins	Black, Blue, Yellow	G7067
Includes (8) 17⅞"D x 16½"W x 11"H Bins	Red, Blue	E3964

Description	Item No.
Swivel Stem Caster Kit	
4 Swivel Casters (2 with Brakes)	19YY17

Description	Load Capacity	H	W	Item No.
Bin Rail				
Wall Rail	125 lb.	3"	48"	8EZW4







L	W	▶CHOOSE: Bin Color	BINS Item No.	CROSS DIVIDERS Item No.	CROSS DIVIDERS Pkg. Qty.
4"H Shelf Bins					
11⅝"	2¾"	Blue, Red, Yellow, Green, White	F8465	—	—
11⅝"	4⅛"		F8466	3A563	24
11⅝"	6⅝"		F8464	3A564	24
11⅝"	8⅜"		F8877	3A565	24
11⅝"	11⅛"		F8874	6A278	24
17⅞"	4⅛"		F8462	3A563	24
17⅞"	6⅝"		F8476	3A564	24
17⅞"	8⅜"		F8876	3A565	24
17⅞"	11⅛"		F8873	6A278	24
23⅝"	4⅛"		F8872	3A563	24
23⅝"	6⅝"		F8875	3A564	24
23⅝"	8⅜"		F8871	3A565	24
23⅝"	11⅛"		F8909	6A278	24
6"H Shelf Bins					
17⅞"	6⅝"	Blue, Red, Yellow	D5525	4KEY1	12

L	W	H	Item No.	Carton Qty.
Bin Cups, Translucent				
3¼"	2"	3"	4TJ75	48
2¾"	5"	3"	1UGR9	24

Description	Color	Item No.
Label Holders		
1¾16 x 3" Card Stock Holder	Clear/White	21D064
2¼" x 2¼"	Black	8VM40

Description	▶CHOOSE: Bin Color	Item No.
Wire Shelving Units		
(60) 11⅝"D x 6⅝"W x 4"H Bins	Red, Yellow	D5526
(60) 17⅞"D x 6⅝"W x 4"H Bins	Red, Yellow, Blue	D5528
(96) 11⅝"D x 4⅛"W x 4"H Bins	Red, Yellow, Blue	D5527
(96) 17⅞"D x 4⅛"W x 4"H Bins	Red, Blue	D5529
Steel Shelving Units		
(48) 11⅝"D x 8⅜"W x 4"H Bins	Yellow	9TD05
(96) 11⅝"D x 4⅛"W x 4"H Bins	Yellow	8CMX4
(144) 11⅝"D x 2¾"W x 4"H Bins	Yellow	9PV22

AKRO-MILS®

Plastic Shelf Bins and Shelving Units

- More dividers are available, see Grainger.com®
- Clear bins are available, see page 1280

Sturdy industrial grade polymer shelf bins are ideal for use with 12", 18", and 24" deep shelving or vertical storage and retrieval units. 1-pc. construction is waterproof and unaffected by grease or oil.

Optional black industrial grade polymer dividers and removable bin cups are sold separately.

Wire and Steel Shelving Units—Chrome-plated wire and 22-ga. steel shelving units come complete with colored bins. Easy to assemble with quick-adjust clips. Both measure 36"W x 74"H and include 4 posts. Wire units have 800-lb. shelf capacity, based on evenly distributed loads; 2000-lb. total load capacity per unit. Steel units have 500 lb. per shelf capacity; 3000-lb. total load capacity per unit. Wire units meet NSF standard.

GA GRAINGER APPROVED

Plastic Shelf Bins

Bins are sized to fit shelving with depths of 12", 18", or 24" and help you organize inventory and improve productivity. Ideal for all environments including industrial, commercial, healthcare, and foodservice. Plastic construction allow these bins to outlast corrugated bins. Dividers are available separately to help create multiple compartments, see Grainger.com®. Use multiple colors to code inventory and facilitate order picking.

L	W	H	▶CHOOSE: Bin Color	Item No.
11⅝"	2¾"	4"	Blue, Green, Red, Yellow	J5051
	4⅛"	4"		J5052
	6⅝"	4"		J5055
	8⅜"	4"		J5057
	11⅛"	4"		J5060
17⅞"	4⅛"	4"		J5054
	6⅝"	4"		J5056
	8⅜"	4"		J5058
	11⅛"	4"		J5062
23⅝"	4⅛"	4"		J5053
	6⅝"	4"		J5059
	8⅜"	4"		J5063
	11⅛"	4"		J5061





No. D5563



No. G6996

L	W	▶CHOOSE: Bin Color	BINS Item No.		DIVIDERS, PKG. OF 50 Item No.
4"H Shelf Bins					
11⅝"	2¾"	Blue, Green, Ivory, Red, Yellow	F0612		—
	4⅛"		F0613		8PCC8
	6⅝"		F0614		8C964
	8⅜"		F0615		9WTC4
	11⅛"		F0616		8C965
17⅞"	4⅛"		F0617		8PCC8
	6⅝"		F0618		8C964
	8⅜"		F0619		9WTC4
	11⅛"		F0620		8C965
23⅝"	4⅛"		F0621		8PCC8
	6⅝"		F0622		8C964
	8⅜"		F0623		9WTC4
	11⅛"		F0624		8C965
6"H Shelf Bins					
11⅝"	4⅛"	Blue, Red, Yellow	D5563		2ZMR2
	6⅝"		E5729		2ZMR3
	8⅜"		E5730		2ZMR4
	11⅛"		E5731		2ZMR5
17⅞"	4⅛"		E5732		2ZMR2
	6⅝"		F9082		2ZMR3
	8⅜"		E5733		2ZMR4
	11⅛"		E5734		2ZMR5
23⅝"	4⅛"		E5735		2ZMR2
	6⅝"		E5736		2ZMR3
	8⅜"		E5737		2ZMR4
	11⅛"		E5738		2ZMR5
8"H Shelf Bins					
11⅝"	4⅜"	Blue, Red, Yellow	G7026		33Z350
	6⅝"		G7027		33Z351
	8⅜"		G7032		33Z352
	11⅛"		G7034		33Z353
17⅞"	4⅜"		G7028		33Z350
	6⅝"		G7029		33Z351
	8⅜"		G7033		33Z352
	11⅛"		G7035		33Z353
23⅝"	4⅜"	Blue, Red	G7030	*	33Z350
	6⅝"	Blue, Red, Yellow	G7031		33Z351
	8⅜"		G7036		33Z352
	11⅛"		G7037		33Z353

Not available in yellow.

QUANTUM™ STORAGE SYSTEMS

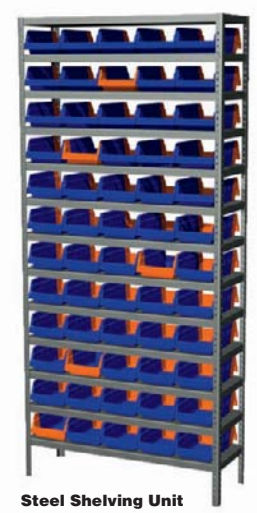
Plastic Shelf Bins and Shelving Units

- Additional Plastic Shelf Bins, Cups, and Shelving Units are available, see Grainger.com®
- Clear bins are available, see page 1280

High-density shelf bins feature a molded-in label holder, and a wide hopper front and built-in hanglock for easy access to contents. Optional dividers fit horizontally across bin and allow easy part labeling with individual label slots. 4" and 8" bins can accommodate up to 7 dividers and 6" bins can accommodate up to 8 dividers.

Description	▶CHOOSE: Color	Size	Item No.	Pkg. Qty.
Bin Accessories				
Plastic Bin Cups	Blue, Yellow	3¼"L x 1¾"W x 3"H	F2398	1
Plastic Bin Cups	Blue, Yellow	5⅛"L x 2¾"W x 3"H	F2399	1
Label Holder	Black	2¼"W x 4"L	2ZMR6	24
Label Holder	Black	2¼"W x 4"L	33Z131	24
Swivel Stem Caster Kit	—	4 Swivel Casters (2 with Brakes)	19YY17	1

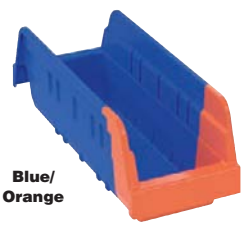
Bin Height	Bin Width	Bin Depth	Total No. of Bins	▶CHOOSE: Bin Color	Item No.
Steel Shelving Units					
75"H x 18"D Units					
4"	4⅛"	17⅞"	96	Blue, Ivory, Red	E1515
	6⅝"	17⅞"	60	Blue, Red, Yellow	E1516
	8⅛"	17⅞"	48	Blue, Yellow	E1517
6"	4⅛"	17⅞"	72	Blue, Red, Yellow	G6994
	6⅝"	17⅞"	45		G6995
	8⅜"	17⅞"	36		G6996
75"H x 12"D Units					
4"	4⅛"	11⅞"	96	Black, Blue, Green, Ivory, Red, Yellow	E1506
	6⅝"	11⅞"	60	Blue, Green, Black, Yellow, Ivory, Red	E1507
	8⅜"	11⅞"	48	Black, Blue, Green, Ivory, Red, Yellow	E1508
6"	4⅛"	11⅝"	72	Blue, Red, Yellow	G6986
	6⅝"	11⅝"	45		G6987
	8⅜"	11⅝"	36		G6988
		11⅜"	28		G7420
8"	11⅛"	11⅝"	21		G7421
	4⅛"	11⅝"	56	Blue	G7418
60"H x 12"D Units					
4"	4⅛"	11⅝"	64	Black, Blue, Ivory, Red, Yellow	E1545
6"		11⅝"	64	Blue, Red, Yellow	G7016
	6⅝"	11⅝"	40		G7017
	11⅛"	11⅝"	24		G7019
39"H x 12"D Units					
6"	4⅛"	11⅝"	32	Blue, Red, Yellow	G6982
	6⅝"	11⅝"	20		G6983
	11⅛"	11⅝"	12		G6985
Steel Wire Shelving Units					
74"H x 24"D Units					
4"	6⅝"	23⅝"	55	Black, Blue	G7062
74"H x 18"D Units					
4"	4⅛"	17⅞"	88	Red, Yellow	E3957
	6⅝"	17⅞"	55	Black, Blue, Green, Red	E3958
	8⅜"	17⅞"	44	Black, Blue, Red	E3959
74"H x 12"D Units					
4"	6⅝"	11⅝"	55	Black, Blue, Green, Red, Yellow	G7061
6"	4⅛"	11⅝"	64	Blue	G7080
	6⅝"	11⅝"	40	Blue, Yellow	G7081



Steel Shelving Unit w/Bins
No. 6GDL2



Black/ Red



Blue/ Orange

AKRO-MILS®

Indicator Bins and Systems

Identify low-stock or out-of-stock items using this system of two-toned bins. When main compartment is low or empty, turn the blue side around to the orange "order more" trigger color side. Sloped shelves on wire or steel pick racks keep inventory at front of bin for easy visibility.

Outside Length	Outside Width	Outside Height	▶CHOOSE: Color	BINS Item No.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
Double Hopper Shelf Bins						
11⅝"	4¼"	4"	Black/Red, Blue/Orange	H8694	21D137	12
	6¾"	4"		H8695	3A563	24
17⅞"	4⅛"	4"		H8696	21D138	12
	6⅝"	4"		H8697	3A564	24

Description	Item No.
79"H x 12"D Steel Shelving Unit with Bins	
(60) 11⅝ x 6¾ x 4" Bins	6GDL2
(96) 11⅝ x 4¼ x 4" Bins	6GDL1

QUANTUM™ STORAGE SYSTEMS

Stackable Shelf Bins and Shelving Units

Strong, durable polypropylene construction. The 12", 14" and 18"D bins have a built in rear hanger that allows bins to hang from louvered panels and rail systems. Bins have a raised front opening to maximize storage capacity. Waterproof bins are rust- and corrosion-resistant. Large molded in front label slots for ID labels. Autoclavable up to 250°F and resistant to extreme cold.

Outside W	Outside H	Outside D	▶CHOOSE: Bin Color	BINS Item No.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
6"	7"	14"	Ivory, Blue, Gray, Black, Orange	G7045	24K172	6
	7"	18"		G7048	24K172	6
8¼"	7"	12"		G7043	24K173	6
	7"	14"		G7046	24K173	6
	7"	18"		G7049	24K173	6
	7"	20½"		G7051	24K173	6
11"	7"	12"		G7044	24K174	6
	7"	14"		G7047	24K174	6
	7"	18"		G7050	24K174	6
	7"	20½"		G7052	24K174	6

Includes	▶CHOOSE: Bin Color	Item No.
74"H x 12"D Wire Shelving Units w/Bins		
(28) 8¼"W x 12"D x 7"H Bins	Orange	G7069
(21) 11"W x 12"D x 7"H Bins	Blue, Gray, Black, Orange	G7070
74"H x 14"D Wire Shelving Units w/Bins		
(28) 8¼"W x 14"D x 7"H Bins	Blue	G7072
(21) 11"W x 14"D x 7"H Bins		G7073
74"H x 18"D Wire Shelving Units w/Bins		
(35) 6"W x 18"D x 7"H Bins	Gray	G7074
(28) 8¼"W x 18"D x 7"H Bins	Blue	G7075
(21) 11"W x 18"D x 7"H Bins	Black	G7076
74"H x 21"D Wire Shelving Units w/Bins		
(28) 8¼"W x 20½"D x 7"H Bins	Blue, Orange	G7077
(24) (12) 8¼", (12) 11"W x 20½"D x 7"H Bins	Orange	G7078
(21) 11"W x 20½"D x 7"H Bins	Ivory, Blue	G7079
Swivel Stem Caster Kit		
4 Swivel Casters (2 with Brakes)	—	19YY17



No. G7048



No. G7070



Red
No. F8690

AKRO-MILS®

Molded-In 6-Compartment Bins

System Bins™ with molded-in front-to-back dividers keep small parts stored and sorted. Fit all standard 36"W shelving, racks, and benches. Wide, smooth bin fronts allow easy labeling (labels not included). Nest when not in use.

Outside L	Outside W	Outside H	▶CHOOSE: Bin Color	BINS Item No.
33"	12"	5"	Blue, Red, Yellow	F8690
33"	18"	5"		F8689



Bin w/Divider



Mobile Wire Shelving Unit w/Bins

AKRO-MILS®

Stackable Shelf Bins and Shelving Unit

Tall heavy-duty industrial-grade polymer bins hold more heavy and bulky parts than most plastic bins. Use with 18" or 24"D shelving, or stack between shelves and cabinets. Bins include 1 plastic divider; additional dividers are sold separately. Beige color bins.

MOBILE WIRE SHELVING UNIT WITH BINS

Chrome-plated shelving unit comes complete with beige bins. Easy to assemble. Four 5" casters, 2 with brakes. Unit is 24"D x 60"W x 68"H and includes 4 posts. 2000-lb. total load capacity. 1 divider included per bin. Meets NSF standard.

Includes	Item No.
Mobile Wire Shelving Unit with Bins	
(30) 11 x 7 x 20½" Bins	4KEV3

Outside W	Outside H	Outside D	Load Cap.	BINS Item No.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
Stackable Shelf Bins						
8¼"	7"	20½"	60 lb.	2RV53	2RV55	6
11"	7"	20½"	75 lb.	2RV54	2RV56	6



Hang and Stack Bin
No. 1NTV2



Shelf Bin
No. 1NTX3



Giant Hopper Bin
No. 1NTW8

QUANTUM™ STORAGE SYSTEMS

Recycled Bins

- 100% post-consumer, high-density polypropylene/polyethylene
- Black color
- Printer labels are available separately, see Grainger.com®

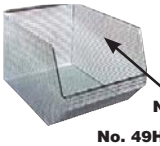
Hang and Stack Bins—Front, back, and side grips provide easy handling. Built-in rear hanger allows bins to hang from louvered panels or rails. Wide stacking ledge and antislide lock keep stacked bins steady and prevent shifting.

L	Outside W	H	Item No.
Hang and Stack Bins			
4⅜"	4⅛"	3"	**43Y402**
5⅜"	4⅛"	3"	**1NTV2**
7⅜"	4⅛"	3"	**1NTV3**
10¾"	8¼"	7"	**1NTV9**
10⅞"	4⅛"	4"	**1NTV4**
	5½"	5"	**1NTV5**
	11"	5"	**1NTV8**
	16½"	5"	**1NTW2**
14¾"	5½"	5"	**1NTV7**
	8¼"	7"	**1NTW1**
	16½"	7"	**1NTW3**
16"	11"	8"	**1NTW4**
18"	8¼"	9"	**1NTW6**
	11"	10"	**1NTW5**
	16½"	11"	**1NTW7**

Shelf Bins—Built-in rear hanglock allows bins to tilt out for complete access when on shelving.

Giant Hopper Bins—Heavy-duty, extra-strong bins have reinforced walls and double-wall thickness with preformed lip, which allows bins to interlock and provides up to 150-lb. stack capacity.

L	Outside W	H	Item No.
Shelf Bin			
4"	11⅝"	4⅛"	**1NTX1**
	11⅝"	8⅜"	**1NTX3**
	11⅝"	11⅛"	**1NTX4**
	17⅞"	4⅛"	**1NTX5**
	17⅞"	6⅝"	**1NTX6**
	17⅞"	8⅜"	**1NTX7**
	23⅝"	4⅛"	**1NTY1**
	23⅝"	6⅝"	**1NTY3**
	23⅝"	8⅜"	**1NTY5**
	23⅝"	11⅛"	**1NTY7**
11⅝"	2¾"	4"	**1NTW9**
	6⅝"	4"	**1NTX2**
17⅞"	11⅛"	4"	**1NTX8**
Giant Stack Containers			
15¼"	19⅞"	12²⁷⁄₁₆"	**1NTW8**
Giant Hopper Bins			
5⅞"	19¾"	12⅜"	**1NTY9**
7⅞"	19¾"	12⅜"	**1NTZ2**
11⅞"	19¾"	18⅜"	**1UNJ2**
	29"	18⅜"	**1UNJ4**
19¾"	12⅜"	11⅞"	**1NTZ4**



Stacking Bracket
No. 35JG34

No. 49H196



No. 35JG35

QUANTUM™ STORAGE SYSTEMS

Wire Mesh Hang and Stack Bins

- 175-lb. stack capacity
- See page 1281 for Wire Louver Panels

Mesh pattern allows complete visibility of bin's contents. Built-in rear hanger allow bins to hang from louvered panels or rails and can be stacked one on top of the other.

L	Outside W	H	BINS Item No.	STACKING BRACKETS Item No.	DIVIDERS Item No.
5¼"	4¼"	3"	**49H189**	—	**35JG35**
7¼"	4¼"	3"	**49H190**	**35JG30**	**35JG36**
10½"	8"	7"	**49H193**	**35JG31**	**35JG37**
10¾"	5½"	5"	**49H191**	**35JG32**	**35JG38**
10¾"	11"	5"	**49H192**	**35JG32**	**35JG38**
14½"	8"	7"	**49H194**	**35JG33**	**35JG39**
14½"	16¼"	7"	**49H195**	**35JG33**	**35JG39**
18½"	11"	10¼"	**49H196**	**35JG34**	**35JG40**
18½"	17"	11¼"	**49H197**	**35JG34**	**35JG40**

AKRO-MILS®

Economy Nest and Stack Bins

Strong, industrial-grade polymer bins have wide label area (labels are available separately, see Grainger.com®). Fit on 12"- or 18"-deep shelving. Black color.

D	Outside W	H	Load Cap.	Item No.
8⅞"	6⅝"	5"	6 lb.	**3HRZ8**
11"	8⅜"	5"	15 lb.	**3HTA2**
11⅞"	6⅝"	5"	12 lb.	**3HRZ9**
17"	6⅝"	7"	24 lb.	**3HTA1**
17"	8⅜"	7"	24 lb.	**3HTA3**



No. 3HRZ8

Shelf Bin
No. 4RR27



QUANTUM™ STORAGE SYSTEMS



Stackable Bins, No. 4RR38
(Dividers Sold Separately)

ESD Conductive Bins

Permanently conductive, black polypropylene bins protect electronic components during storage and transportation. Surface resistivity $<10^5$ Ohms per square. Electrostatic decay rate is tested to meet Mil. Spec. B81075B at <0.1 seconds. Shelf bins nest when empty for space-saving storage. Stackable bins have a wide stacking ledge to ensure stability. Bin Hanging Systems are available, see Grainger.com®.

L	Outside W	H	Item No.	BINS Item No.	DIVIDERS, PKG. OF 6 Item No.
Shelf Bins					
11⅝"	4⅛"	4"	**4RR27**		
11⅝"	6⅝"	4"	**5LY63**		
17⅞"	4⅛"	4"	**4RR28**		
23⅝"	4⅛"	4"	**5LY64**		
23⅝"	6⅝"	4"	**5LY65**		
23⅝"	8⅜"	4"	**5LY66**		
Stackable Bins					
5"	4⅛"	3"		**43Y401**	—
5⅜"	4⅛"	3"		**4RR35**	**8RHX9**
7⅜"	4⅛"	3"		**4RR36**	**8NAK3**
10¾"	8¼"	7"		**2TB25**	**8XCC3**
10⅞"	5½"	5"		**4RR37**	**11M588**
	11"	5"		**4RR38**	**11M588**
14¾"	8¼"	7"		**4RR39**	**11M589**
	16½"	7"		**4RR40**	**11M589**
16"	11"	8"		**2TB26**	**9F060**
18"	16½"	11"		**4RR42**	**11M590**

AKRO-MILS®

ESD Conductive Bins

Protect electronic components during storage and transportation. ESD protection is 10^6 to 10^9 ohms per square. Stackable bins can be suspended from any stationary Akro-Mils® hanging system (see page 1281).



No. 5ZK98

L	Outside W	H	Item No.
5⅜"	4⅛"	3"	**5ZK97**
7⅜"	4⅛"	3"	**5ZK98**
10⅞"	5½"	5"	**5ZK99**
10⅞"	11"	5"	**5ZL01**
14¾"	8¼"	7"	**5ZL02**

ESD Conductive Hopper Bins

LEWIS BINS+ Powered by Menasha Corporation

Protect parts from static electricity. Permanently molded in conductive material for use in cleanrooms and workstations. <1.0 x 10^5 ohms per square. Label insert area for easy identification. Bins hang on most louvered panels or rails, except No. 19YY14.

L	Outside W	H	Color	Item No.
ESD Conductive Bins				
7"	4"	3"	Black	**19YY05**
9⅜"	8⅞"	5"	Black	**19YY10**
9½"	5⅞"	5"	Black	**19YY08**
12⅛"	8⅛"	6"	Black	**19YY12**
12⅞"	11½"	6"	Black	**19YY13**
18½"	11⅝"	7⅛"	Black	**19YY14**
ESD Conductive Bins with Divider				
7"	4"	3"	Black	**19YY06**
9⅜"	8⅞"	5"	Black	**19YY11**
9½"	5⅞"	5"	Black	**19YY09**



No. 19YY08



No. 19YY11



No. 10E134



No. 10E135

Open-Front Hopper Bins

LEWIS BINS+ Powered by Menasha Corporation

Strong, injection-molded HDPE construction. Bins stack up to 3 high when full and nest when empty for high-density storage and easy access. Blue color. No. 10E134 has swing arm that can withstand a static weight load of 25 lb.

L	Outside W	H	Cap.	Item No.
14⅞"	11⅝"	12½"	6 gal.	**10E134**
15¼"	20¼"	12½"	12 gal.	**10E135**

Giant Open Hopper Magnum Bins and Shelving Units

- 150-lb. stack capacity
- Molded-in divider slots, label slots, and rear carrying handle

Preformed interlock lip and a wide stacking ledge allow secure stacking. Double-thick ribbed walls provide extra strength. Injection-molded, high-density polypropylene is resistant to solvents, corrosion, rust, and rot. Mobile bins feature four 3" swivel casters with brakes and have a 300-lb. load capacity.

QUANTUM™ STORAGE SYSTEMS

SHELVING UNITS WITH BINS

Economical, high-density shelving is made from 22-ga. steel. 350-lb. capacity per shelf (based on evenly distributed loads). 18"D x 42"W x 75"H. Gray color.



Open Hopper Bin No. F0817



Mobile Open Hopper Bin with Spread Bar No. D5569

Outside L	Outside W	Outside H	▶CHOOSE: Bin Color	BINS Item No.	DIVIDERS Item No.	WINDOWS Item No.
Bins						
19¾"	12⅜"	5⅞"	Blue, Green, Red, Yellow	F0817	12R262	33Z124
19¾"	12⅜"	7⅞"		F8681	11M577	—
19¾"	12⅜"	11⅞"		F0818	11M578	—
19¾"	18⅜"	11⅞"		F8680	1VH15	33Z127
29"	18⅜"	11⅞"		F8679 *	—	—
Mobile Bins						
29"	18⅜"	14⅞"	Blue, Green, Red, Yellow	D5569 *	—	—

** Includes heavy-duty spread bar for extra strength and support.*

Description	▶CHOOSE: Bin Color	Item No.
Shelving Units with Bins		
10-Shelf Unit with (27) 19¾"D x 12⅜"W x 5⅞"H Bins	Blue, Green, Red, Yellow	E1528
8-Shelf Unit with (21) 19¾"D x 12⅜"W x 7⅞"H Bins		E1529
6-Shelf Unit with (15) 19¾"D x 12⅜"W x 11⅞"H Bins	Blue, Green	E1530
6-Shelf Unit with (10) 19¾"D x 18⅜"W x 11⅞"H Bins	Blue, Green, Red, Yellow	E1531
7-Shelf Unit with 16 Mixed-Size Bins	Blue, Green	D5571
6-Shelf Unit with 16 Mixed-Size Bins	Red, Yellow	D5571

Hulk Hopper Bins and Shelving Units

QUANTUM™ STORAGE SYSTEMS

- 150-lb. stack capacity
- Front, back, and side grips for easy handling

Organize inventory with strong injection-molded polypropylene bins. Optional clear crystal styrene windows increase bin capacity and allow quick view of contents.

Mobile Hopper Bins—Come with four 3" swivel casters with brakes. 250-lb. load capacity.

Stack Bin Shelving Units—Chrome wire shelving units have an 800-lb. capacity per shelf.



Hopper Bin No. E4449



Mobile Hopper Bin No. E4548



Stack Bin Dolly

Outside L	Outside W	Outside H	▶CHOOSE: Bin Color	BINS Item No.	CLEAR BINS Item No.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.	WINDOWS Item No.	WINDOWS Pkg. Qty.
Hopper Bins									
23⅞"	8¼"	7"	Blue, Red, Yellow	E4445	6GAN8	11M591	6	8PH18	6
	8¼"	9"		E4446	6GAN9	11M592	6	—	—
	11"	7"		F8433	6GAP0	11M593	6	11M652	4
	11"	10"	Yellow	E4447	6GAP1	11M594	6	8THV0	4
	16½"	11"	Blue, Red, Yellow	E4448	6GAP2	11M595	6	2TA83	1
	18¼"	12"		E4449	6GAP4	11M596	6	2TA84	1
29⅞"	8¼"	7"		E4543 *	—	33Z358	6	8PH18	6
	11"	10"		E4544 †	—	33Z359	4	8THV0	4
	16½"	11"		E4545	—	33Z360	1	2TA83	1
	18¼"	12"		E4546	—	33Z361	1	2TA84	1
	16½"	15"		E4547	—	33Z362	1	1UVR9	1
35⅞"	16½"	17½"		E6586 *	—	—	—	—	—
	19⅞"	17½"		E6587	—	—	—	—	—
	23⅞"	17½"		E6588	—	—	—	—	—
Mobile Hopper Bins									
29⅞"	16½"	11"	Blue, Red, Yellow	E4548	—	33Z360	1	2TA83	1
	18¼"	12"		E4549	—	33Z361	1	2TA84	1
	16½"	15"		E4550	—	33Z362	1	1UVR9	1
35⅞"	16½"	17½"	Red, Yellow	D5572	—	—	—	—	—
	19⅞"	17½"	Blue, Red, Yellow	D5573	—	—	—	—	—
	23⅞"	17½"		D5574	—	—	—	—	—

Description	Overall Depth	Overall Width	Overall Height	▶CHOOSE: Bin Color	Item No.
Bin Shelving					
(8) 23⅞ x 8¼ x 7", (3) 23⅞ x 11 x 7", (4) 23⅞ x 8¼ x 9", (3) 23⅞ x 11 x 10", and (2) 23⅞ x 16½ x 11" Bins	24"	36"	74"	Blue, Yellow	D5604
(10) 23⅞" x 16½" x 11" Bins	24"	36"	74"	Yellow	D5605
(13) 29⅞" x (9) 11", (4) 16½" x (9) 10", (4) 11" Bins	30"	36"	74"	Blue, Red, Yellow	D5606
(8) 29⅞" x 18¼" x 12" Bins	30"	42"	74"	Blue, Yellow	D5607
Stack Bin Dolly					
With Padded Rubber Ledge	30"	18"	5"	Blue	1UVT1
Swivel Stem Caster Kit					
4 Swivel Casters (2 with Brakes)	—	—	—	—	19YY17

** Not available in Red. † Not available in Yellow.*

QUANTUM™ STORAGE SYSTEMS

Pallet Rack Bins

Extra-large bins provide almost 3½ ft. of length and ensure no space is wasted when used on a 42"D rack. Front, back, and side grips for easy handling. Feature wide stacking ledge and an antislide lock to keep stacked bins steady and prevent forward shifting. Waterproof and corrosion-free. Polypropylene construction.



No. G7020

Outside L	Outside W	Outside H	▶CHOOSE: Bin Color	Item No.
Pallet Rack Bins				
41⅞"	16½"	17½"	Gray, Blue	G7020
41⅞"	19⅞"	17½"		G7022
41⅞"	23⅞"	17½"		G7024
Mobile Pallet Rack Bins				
41⅞"	16½"	20½"	Gray, Blue	G7021
41⅞"	19⅞"	20½"		G7023
41⅞"	23⅞"	17½"	Gray	G7025

Fiberglass Stack and Nest Hopper Bins

- Compression-molded fiberglass-reinforced polyester construction
- Load capacity: 500 lb.
- Temp. range: -60° to 250°F
- Rack systems are available, see Grainger.com®

Tough Plexton® polyester hoppers offer high-density storage and quick access to product in extreme environments. Containers stack securely for efficient use of space, nest when empty, and offer smooth contoured surfaces and radius corners for safe and easy handling.

LEWIS BINS+ Powered by Menasha Corporation



Stacking and Nesting Hopper Bins

Outside D	Outside W	Outside H	▶CHOOSE: Color	Item No.
18"	11⅜"	7½"	Gray, Green, Red	F9004
24"	11⅜"	7⅞"		F9005
24"	16¼"	8"		F9003

Super-Size AkroBins® and Carts

AKRO-MILS® GRAINGER APPROVED

Additional Shelving Units and Bin Carts are available, see Grainger.com®.

SUPER-SIZE AKROBINS®

- Industrial grade polymer construction
- Large, open hopper front
- Molded-in rear carry handle

Extra-wide ledge around sides of bin ensures secure stacking. Reinforced design prevents sides from spreading under heavy loads. Large area on front panel allows room for adhesive labels. Gray bins available on Grainger.com®.



Clear Bin
No. 40K424



Wire Shelving Unit with Bins
No. D5362

WIRE SHELVING UNITS WITH BINS

Chrome-plated shelving units come complete with colored bins. Assemble easily. All units are 18"D x 48"W x 74"H and include 4 posts. 800-lb. shelf capacity; 2000-lb. total load capacity per unit. NSF Certified.

Outside L	Outside W	Outside H	▶CHOOSE: Bin Color	BINS Item No.	CLEAR BINS Item No.	DIVIDERS, FRONT TO BACK Item No.	DIVIDERS, FRONT TO BACK Pkg. Qty.	DIVIDERS, SIDE TO SIDE Item No.	DIVIDERS, SIDE TO SIDE Pkg. Qty.
Super-Size AkroBins®									
20"	12⅜"	6"	Blue, Red, Yellow	F9075	40K416	10A045	2	—	—
	12⅜"	8"		F8566	40K417	10A046	3	—	—
	12⅜"	12"		F9074	40K418	10A047	1	—	—
	18⅜"	12"		F9073	40K419	10A047	1	—	—
23⅞"	8¼"	7"		D5437	40K420	4MXK9	4	10A043	2
	11"	7"		D5556	40K421	4MXK9	4	4MXL1	2
	11"	10"		D5557	40K422	3FWC1	6	3HRW7	6
	16½"	11"		D5558	40K423	3FWC1	6	3HRW8	6
	18¼"	12"		D5559	40K424	—	—	4MXL4	2
29¼"	18⅜"	12"		F9078	40K425	10A048	1	—	—
29⅞"	11"	10"		D5561	40K426	3HRW6	6	3HRW7	6
	16½"	11"		D5562	40K427	3HRW6	6	3HRW8	6

Includes	▶CHOOSE: Bin Color	Item No.
Wire Shelving Units with Bins		
(8) 18⅜" W x 20"D x 12"H Super-Size AkroBins®	Red, Blue, Yellow	D5365
(12) 12⅜" W x 20"D x 12"H Super-Size AkroBins®		D5364
(18) 12⅜" W x 20"D x 8"H Super-Size AkroBins®		D5363
(24) 12⅜" W x 20"D x 6"H Super-Size AkroBins®		D5362

For Use With Stacking Bin	Brand	Item No.
General Purpose Dollies		
No. F9078	GA	24WF54
No. F5562	GA	24WF55



Stacking Bin
No. F8828



No. 24WF53

AKRO-MILS® GRAINGER APPROVED

Stacking Containers, Shelving Units, and Dolly

- Industrial grade polymer construction
- Wide hopper front for easy access

Virtually unbreakable bins stack to form tall, stable storage arrangements on floors or shelving; side ribs ensure stability. Comfortable grip for easy handling.

Optional dollies help create mobile storage systems.

WIRE SHELVING UNITS

Chrome-plated shelving comes complete with bins. Easy to assemble with quick-adjust clips. Units are 48"W x 18"D x 74"H and include 4 posts. 800-lb. shelf capacity; 2000-lb. total load capacity per unit. Meet NSF standard.

Outside Top L	Outside Top W	Outside Top H	Cap.	▶CHOOSE: Color	Item No.
Akro-Mils® Stacking Bin					
15¼"	19⅞"	12⅞"	1.7 cu. ft.	Blue, Clear, Gray, Red	F8828
17½"	10⅞"	12½"	0.98 cu. ft.		F8813
17½"	16½"	12½"	1.6 cu. ft.		F8826

Description	▶CHOOSE: Bin Color	Item No.
Akro-Mils® Wire Shelving w/Containers		
Includes (8) 17½"D x 16½"W x 12½"H Bins	Gray, Blue	G3473
Includes (8) 15½"D x 19⅞"W x 12⅞"H Bins	Blue	G3471
Includes (6) 17½"D x 10⅞"W x 12½"H and (6) 12½"D x 19⅞"W x 12⅞"H Bins	Blue, Clear	G3474
Includes (12) 17½"D x 10⅞"W x 12½"H Bins	Gray, Blue	G3472

For Use With Stacking Bin	Item No.
GA General Purpose Dolly	
No. F8828	24WF53





QUANTUM™ STORAGE SYSTEMS

No. G2978 **No. G2981**

Stacking Containers and Shelving Units

Wide open hopper front provides easy access for large part storage. Stack up to 6 bins high. Injection-molded from high-density polypropylene construction is easy to clean and rust-, corrosion-, and chemical-resistant. Large label holder for quick identification. Six ¼" drill hole pattern on bottom of bin for easy hole insertion for drainage. Optional clear bin windows add extra storage capacity, see Grainger.com®.

Outside L	Outside W	Outside H	Load Cap.	▶CHOOSE: Bin Color	BINS Item No.	CLEAR BINS Item No.
Giant Stack Containers						
17½"	10⅞"	12½"	100 lb.	Blue, Gray, Red	G2978	10H856
15¼"	19⅞"	12⁷⁄₁₆"	100 lb.		G2987	10H855
17½"	16½"	12½"	100 lb.		G2980	10H857
Mobile Giant Stack Containers						
17½"	16½"	15¾"	250 lb.	Blue, Gray, Red	G2981	—
15¼"	19⅞"	15¹³⁄₁₆"	250 lb.		G2979	—

Description	▶CHOOSE: Bin Color	Item No.
75"H x 42"W x 18"D Wire Shelving Unit w/Containers		
(10) 19⅞"W x 15¼"D x 12⁷⁄₁₆"H Bins	Blue, Gray	F1001
75"H x 36"W x 18"D Wire Shelving Unit w/Containers		
(12) 19⅞"W x 15¼"D x 12⁷⁄₁₆"H Bins	Blue, Red	E1495
(10) 16½"W x 17½"D x 12½"H Bins	Blue, Gray	E1496
(15) 10⅞"W x 17½"D x 12½"H Bins	Blue, Gray, Red	E1494
74"H x 42"W x 18"D Wire Shelving Unit w/Containers		
(8) 19⅞"W x 15¼"D x 12⁷⁄₁₆"H Bins	Blue, Clear, Red	F1591
74"H x 36"W x 18"D Wire Shelving Unit w/Containers		
(6) 10⅞"W x 17½"D x 12½"H and (4) 16½"W x 17½"D x 12½"H Bins	Blue, Gray, Red	F1593

Description	Item No.
Swivel Stem Caster Kit	
4 Swivel Casters (2 with Brakes)	19YY17

QUANTUM™ STORAGE SYSTEMS

Tip-Out Bin Systems

Flexible modular systems feature bins that tip open to 45° for easy access. Stack, wall mount, attach to other fixtures, or use individually.

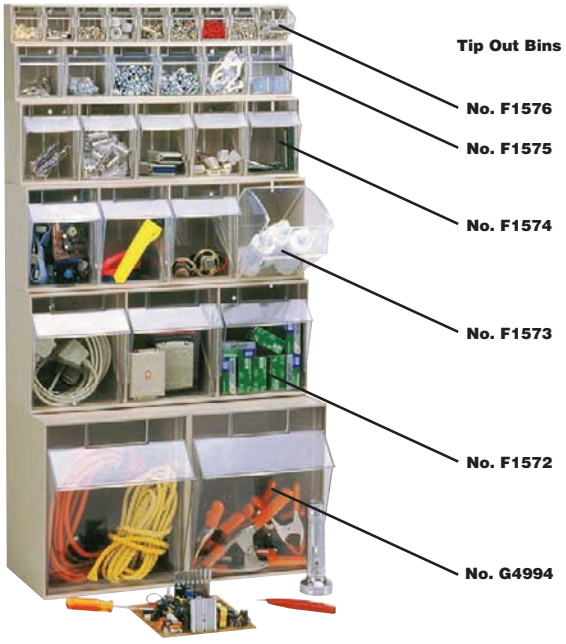
Wall-Mount Tip-Out Bin Frames—Preset parallel distance allows tip-out bins to be stacked and removed easily. Bottom ledge helps secure bins for placement above ground level. 14-ga. steel construction with baked enamel finish. Accept several sizes of Quantum™ clear tip-out bins (not included). Mounting hardware included.

Clear Tip-Out Bins—Injection-molded tip-out compartment is made from a custom blend of Phillips K Resin® and crystal styrene. Exterior housing is made from high-impact polystyrene.

Dividable Clear Tip-Out Bins—Removable and adjustable dividers allow partitioning into smaller compartments. Ideal for longer or larger items. Made from high-impact polystyrene.

Floor Standing Systems—14-ga. steel frames have a smooth, durable powder-coated finish. Bins included. Choose from single-sided, double-sided, and mobile double-sided.

Freestanding Slider Systems—Front and middle panels slide from side to side to provide an ample supply of storage compartments in a space-saving footprint. Easily customizable. Can be forklifted for safe transport. Stands are 14-ga. steel with baked enamel finish. Bins included.



Dim. W	Dim. H	Number of Bins Needed to Fill Each Frame 1VH68 1VH67	1VH70 2RR29	1VH72 2RR30	1VH74 2RR31	1VH76 2RR32	1VH78 2RR33	Item No.
Wall-Mount Tip-Out Bin Frames (Bins Not Included)								
24"	24"	1	2	3	3	5	8	**2TB21**
24"	48"	3	5	6	7	10	16	**2TB22**
24"	70"	5	7	8	10	15	23	**2TB23**

No. of Bins	D	Drawer W	Drawer H	▶CHOOSE: Color	BINS Item No.	REPLACEMENT BINS Item No.
Clear Tip-Out Bins						
1	8⅞"	11 1⁄16"	13⅜"	Ivory, White	**G4993**	—
2	8⅞"	11 1⁄16"	13⅜"		**G4994**	**24D265**
3	5⅞"	7⅜"	5⅝"	Gray, Ivory, White	**F1572**	**24D266**
4	5"	5⅝"	7½"		**F1573**	**24D267**
5	3¾"	4¼"	5¾"		**F1574**	**24D268**
6	2⅝"	3½"	3¾"		**F1575**	**24D269**
9	1¾"	2 3⁄16"	2½"		**F1576**	**24D270**
Individual Tip-Out Bins						
1	1¾"	2 3⁄16"	2½"	Red, White	**G7038**	—
1	2⅝"	3½"	3¾"	Ivory, White	**F8472**	—
1	3¾"	4¼"	5¾"		**F8473**	—
Dividable Clear Tip-Out Bins						
1	4¼"	11"	5¼"	Ivory, White	**F8435**	—
1	4¼"	22½"	5¼"		**F8474**	—
2	4¼"	11"	5¼"		**F8475**	—
Clear Dividers for Dividable Tip-Out Bins, Pkg. of 4						
—	—	—	—	Clear	**11M561**	—

Description	Outside L	Outside H	Outside W	Color	Item No.
Compartment Box System, Double-Sided					
42 Compartments, Multisize Bins	8½"	15"	24"	Gray, Ivory, White	**F8957**
Floor Standing Systems, Single-Sided					
31 Compartments, 1-Size Bins	8"	28"	23⅝"	Gray, Ivory	**F8956**
35 Compartments, 1-Size Bins	8"	52"	23⅝"	Gray, Ivory, White	**F8683**
144 Compartments, 1-Size Bins	14⅝"	52"	23⅝"		**F1773**
Floor Standing Systems, Double-Sided					
66 Compartments, 1-Size Bins	8"	52"	23⅝"	Ivory, White	**F8682**
70 Compartments, 1-Size Bins	14⅝"	52"	23⅝"	Gray, Ivory, White	**F1768**
288 Compartments, 1-Size Bins	14⅝"	52"	23⅝"		**F1770**
132 Compartments, 1-Size Bins	16"	52"	23⅝"		**F1769**
Mobile Floor Standing Systems, Double-Sided					
10 Compartments, Multisize Bins	14⅝"	75"	23⅝"	Gray, Ivory, White	**F1774**
24 Compartments, Multisize Bins	14⅝"	28"	23⅝"		**F1775**
76 Compartments, Multisize Bins	14⅝"	52"	23⅝"		**F1776**
70 Compartments, 1-Size Bins	16"	52"	23⅝"	Gray, Ivory	**F8954**
Freestanding Slider Systems					
364 Compartments, Multisize Bins	18"	77"	48"	Gray, Ivory	**F8911**
Accessories					
Mobilization Kit for Double Sided Unit, Includes Four Casters And One Handle				Black	**1VH40**
Locking Rod, For Bin Storage System				—	**8E830**
Bin Mounting Hardware, Includes (2) Disks, (2) Screws				Silver	**33Z123**



No. 4VL36

Steel Bin Boxes

SSI SCHAFER

Heavily reinforced side walls and angular construction transport and store heavy goods such as solid materials and castings. Strong base allows secure stackability. Galvanized steel plate prevents corrosion. Withstands temperatures up to 375ºF.

Outside L	Outside W	Outside H	Load Cap.	Item No.
6¾"	4"	3"	11 lb.	**4VL39**
9½"	6"	5"	22 lb.	**4VL38**
14"	8½"	8"	66 lb.	**4VL37**
20"	12½"	8"	88 lb.	**4VL36**

AKRO-MILS®

TiltView™ Bin Systems

Space-saving system keeps products at your fingertips to improve organization and efficiency. Clear bins tilt out smoothly and can be easily removed for cleaning. Durable polystyrene system can be used on a desk, attached to steel rails, frames, or louvered panels; can also be mounted to the wall.

No. of Bins	D	Outside W	Outside H	Load Capacity	Item No.
2	12 5⁄16"	23⅝"	14"	10 lb.	**39T747**
3	7⅞"	23⅝"	9 7⁄16"	5 lb.	**39T748**
4	6¾"	23⅝"	8 3⁄16"	3.75 lb.	**39T749**
5	5⅜"	23⅝"	6½"	2 lb.	**39T750**
6	3¾"	23⅝"	4½"	1.33 lb.	**39T751**



No. 39T747



No. 39T750



Yellow Bin
No. H7137



Blue Bin
No. D5541



Enclosed Shelving
Unit w/Bins
No. D5549



No.
2RV75



No.
39H620



No. 39H619

AKRO-MILS®

Drawer Bins, Shelving, and Cabinets

- Additional Shelving Units and Cabinets available, see Grainger.com®

AKRODRAWER™ DRAWER BINS

Pull handle on front of bins provides easy access to contents, while large label area allows easy identification. Solid front walls help prevent dust accumulation in bins when stored on a shelving system. Optional black dividers sold separately. Colored bins are made of high-impact polystyrene. Clear bins are copolymer plastic.

ENCLOSED SHELVING

Help protect contents from dust and have a max. capacity of 8500 lb., based on evenly distributed loads.

L	W	H	▶CHOOSE: Bin Color	BINS Item No.	DIVIDERS Item No.	DIVIDERS Pkg. Qty.
AkroDrawer™ Drawer Bins						
11⅝"	3¾"	4⅝"	Blue, Gray	D5541	4KFC3	6
	5⅝"	4⅝"		D5542	4KFC4	6
	8⅜"	4⅝"		D5543	4KFC5	6
	11⅛"	4⅝"		D5438	10A160	8
17⅝"	3¾"	4⅝"		D5439	4KFC3	6
	5⅝"	4⅝"		D5544	4KFC4	6
	8⅜"	4⅝"		D5545	4KFC5	6
	11⅛"	4⅝"		H7137	10A160	8

Includes	Overall Depth	▶CHOOSE: Bin Color	Item No.
Enclosed Bin Shelving - 79"H x 36"W			
(108) 11⅝"D x 3¾"W x 4⅝"H Bins	12"	Blue, Yellow, Gray	D5546
(72) 11⅝"D x 5⅜"W x 4⅝"H Bins	12"		D5547
(27) 11⅝ x 3¾ x 4⅝" Bins, (36) 11⅝ x 5⅜ x 4⅝" Bins, (12) 11⅝ x 8⅜ x 4⅝" Bins	12"	Red, Blue, Yellow, Gray	D5548
(48) 11⅝"D x 8⅜"W x 4⅝"H Bins	12"	Blue, Yellow, Gray	D5549
(72) 17⅝"D x 5⅜"W x 4⅝"H Bins	18"	Yellow, Gray	D5551
(48) 17⅝"D x 8⅜"W x 4⅝"H Bins	18"	Blue	D5552
(36) 17⅝ x 5⅜ x 4⅝" Bins, (24) 17⅝ x 8⅜ x 4⅝" Bins	18"	Red, Blue, Yellow, Gray	D5553

AKRO-MILS® ★ GA GRAINGER APPROVED

Pick-Racks

- 16-ga. construction
- 12"D or 18"D shelves
- 50-lb. capacity per shelf, based on evenly distributed loads
- For additional Pick Rack Kits, see Grainger.com®

Tilted shelves allow for easy viewing and picking. Purchase racks and bins separately using chart to determine bin quantity per rack (shelf bins available on page 1283), or choose complete kits which include bins. Dollies are available for double-sided racks.

	MAX. NO. SHELF BINS PER RACK Choose No. of Bins Based on Bin Size					
						6-Compartment Bins
For Pick Rack Nos. 2RV76, 2RV75, and 2RV77						
BIN SIZE	**11⅝" x 2¾"**	**11⅝" x 4⅛"**	**11⅝" x 6⅝"**	**11⅝" x 8⅜"**	**11⅝" x 11⅛"**	**33" x 12"**
2RV76	39	24	15	12	9	3
2RV75	96	64	40	32	24	8
2RV77	192	128	80	64	48	16
For Pick Rack Nos. 39H621 and 39H620						
BIN SIZE	**17⅝" x 4⅛"**	**17⅝" x 6⅝"**	**17⅝" x 8⅜"**	**17⅝" x 11⅛"**	**33" x18"**	—
39H621	72	48	36	24	8	—
39H620	132	84	72	48	16	—

Description	Overall Width	Overall Depth	Overall Height	Load Cap.*	Brand	Item No.
1-Sided Pick Racks (Bins Not Included)						
Bench Pick Rack	36¾"	12"	25"	150 lb.	Akro-Mils	2RV76
Pick Rack	36¾"	12"	60¼"	400 lb.	Akro-Mils	2RV75
Pick Rack	36¾"	18"	60¼"	900 lb.	Akro-Mils	39H621
2-Sided Pick Racks (Bins Not Included)						
Pick Rack	36¾"	24"	60¼"	800 lb.	Akro-Mils	2RV77
Pick Rack	36¾"	36¾"	60¼"	1800 lb.	Akro-Mils	39H620
Dolly						
General Purpose Dolly	24"	36"	5"	500 lb.	GA	24WF52
Dollies						
Pick Rack Dolly	37"	33"	6¾"	1800 lb.	Akro-Mils	39H619

Based on evenly distributed loads.



Shelving Units w/ Corrugated Bins

GA GRAINGER APPROVED

Store-All Shelving Units

- 16-ga. posts and uprights; 22-ga. shelves
- Shelf capacity: 400 lb., based on evenly distributed loads
- Gray powder-coated finish
- Shipped unassembled
- Bins included

Bin dividers and additional bins available on page 1283.

Corrugated Bins—1-pc. bins fold easily into shape. 200-lb. test, 4-ply, B-flute board with hopper-style front. Oyster white.

Molded Polypropylene Bins—Waterproof; grease- and oil-resistant. Molded-in label holder accommodates cards or self-adhesive labels. Yellow color.

Total No. of Bins	No. of Shelves	Includes	Overall Dim. W	D	H	Item No.
Corrugated						
40	6	(32) 4¼ x 11 x 4¾" and (8) 8¼ X 11 x 4¾" Bins	36"	12"	42"	**7D412**
80	12	(64) 4¼ x 11 x 4¾" and (16) 8¼ X 11 x 4¾" Bins	36"	12"	75"	**7D413**
80	12	(64) 4¼ x 17 x 4¾" and (16) 8¼ X 17 x 4¾" Bins	36"	18"	75"	**7D414**
100	12	(64) 4¼ x 23 x 4¾" and (16) 8¼ X 23 x 4¾" Bins	36"	24"	75"	**7D415**
Polypropylene						
48	6	(48) 4⅛ x 11⅝ x 4" Bins	36"	12"	42"	**7D416**
60	12	(60) 6⅝ x 23⅜ x 4" Bins	36"	24"	75"	**7D419**
96	12	(96) 4⅛ x 11⅝ x 4" Bins	36"	12"	75"	**7D417**
96	12	(96) 4⅛ x 17⅞ x 4" Bins	36"	18"	75"	**7D418**



Drawer Bin



Shelving Unit w/Bins Included

QUANTUM™ STORAGE SYSTEMS

Euro Drawer Bins and Shelving Units

Euro drawer bins are injection molded from a virgin-grade, high-impact polystyrene. Extra-strong bins have a 12-ga. wall thickness; can be used on shelf units and pick racks. Black bin dividers available separately.

SHELVING UNITS

Heavy-duty, high-grade steel closed shelving units come complete with drawer bins. 400-lb. capacity per shelf (based on evenly distributed loads). Gray color.

L	Outside W	H	▶CHOOSE: Bin Color	BINS Item No.	DIVIDERS Item No.	Pkg. Qty.
Drawer Bins						
11⅝"	3¾"	4⅝"	Blue, Gray, Red, Yellow	**D5565**	**11M562**	4
	5⅜"	2⅝"		**D5564**	**11M563**	4
	5⅜"	4⅝"		**F1577**	**11M565**	4
	8⅜"	4⅝"		**D5566**	**11M566**	4
	11⅛"	4⅝"		**D5567**	**11M567**	4
17⅝"	3¾"	4⅝"		**F1580**	**11M563**	4
	5⅜"	4⅝"		**F1578**	**11M565**	4
	8⅜"	4⅝"		**D5568**	**11M566**	4
23⅞"	5⅜"	4⅝"	Blue, Red, Gray	**F1579**	**11M565**	4

Description	Cabinet D	W	H	▶CHOOSE: Bin Color	Item No.
Drawer Cabinets					
Includes (108) 3¾"W x 11⅝"D x 4⅝"H Bins	12"	36"	75"	Blue, Gray, Red, Yellow	**D5586**
Includes (72) 5⅜"W x 11⅝"D x 4⅝"H Bins	12"	36"	75"		**D5587**
Includes (108) 3¾"W x 17⅞"D x 4⅝"H Bins	18"	36"	75"		**D5598**
Includes (72) 5⅜"W x 17⅞"D x 4⅝"H Bins	18"	36"	75"		**D5599**
Includes (54) 3¾ x 4⅝" and (36) 5⅜ x 4⅝" Bins	18"	36"	75"		**D5601**
Includes (72) 8⅜"W x 23⅞"D x 4⅝"H Bins	24"	36"	75"	Blue, Red, Yellow	**D5602**

Bench Pick Racks

QUANTUM™ STORAGE SYSTEMS

- Keeps small and medium parts easily accessible
- Open hopper front bins with label area
- 250-lb. capacity

Convenient access to sloped shelving with economical shelf bins. All-in-one units are easy to clean; won't rust or corrode.



Total No. of Bins	Bin Height	Bin Width	Bin Depth	▶CHOOSE: Bin Color	Item No.
21"H x 12"D Units with Euro Drawers					
18	4⅝"	5⅜"	11⅝"	Blue, Gray, Red, Yellow	**F1586**
23"H x 12"D Units with Shelf Bins					
36	4"	2¾"	11⅝"	Black, Blue, Red, Yellow	**E1539**
24	4"	4⅛"	11⅝"	Black, Blue, Green, Ivory, Red, Yellow	**E1540**
15	4"	6⅝"	11⅝"		**E1541**
12	4"	8⅜"	11⅝"	Black, Blue, Red, Yellow	**E1542**
9	4"	11⅛"	11⅝"	Black, Blue, Green, Ivory, Red, Yellow	**E1543**
26½"H x 12"D Units with Shelf Bins					
24	6"	4⅛"	11⅝"	Blue, Red, Yellow	**G7012**
15	6"	6⅝"	11⅝"	Gray, Yellow	**G7013**
12	6"	8⅜"	11⅝"		**G7014**
9	6"	11⅛"	11⅝"		**G7015**



• Optional label holder No. 8DA36 is available on Grainger.com®

Stack-and-Nest Containers

QUANTUM™ STORAGE SYSTEMS

- High-density polypropylene construction

Ribbed design prevents jamming when nesting and ensures stability when stacked. Textured bottoms provide a no-slip grip on conveyor belts.

Outside L	Outside W	Outside H	Cap.	▶CHOOSE: Bin Color	TOTES Item No.	LIDS Item No.
18"	11"	6"	0.5 cu. ft.	Blue, Gray, Red	E1878	E1887
18"	11"	9"	0.76 cu. ft.		E1879	E1887
19½"	13½"	8"	0.8 cu. ft.		E1882	E1889
19½"	15½"	10"	1.2 cu. ft.		E1880	E1888
19½"	15½"	13"	1.7 cu. ft.		E1881	E1888
23½"	15½"	12"	1.7 cu. ft.		E1885	E1891
23½"	19½"	10"	2.0 cu. ft.		E1883	E1890
23½"	19½"	13"	2.6 cu. ft.		E1884	E1890
29½"	19½"	15"	3.7 cu. ft.		E1886	E1892



Lid



Container No. D6937

LEWIS BINS+ Powered by Menasha Corporation

Stack-and-Nest Containers

- Containers and lids are injection molded

Stack when full, with or without lids, and nest at alternate 180° positions when empty. Easy to clean with no sharp edges, burrs, or splinters. Resist rust, corrosion, and temps. from 0° to 120°F. Containers have a 70-lb. load capacity. Produced with FDA compliant materials.

Outside L	Outside W	Outside H	Volume Cap.	▶CHOOSE: Color	CONTAINERS Item No.	LIDS Item No.
19½"	13"	12⅛"	1.30 cu. ft.	Blue, Gray, Red	F0142	F0148
20⅛"	13"	6¼"	0.60 cu. ft.		F0141	F0147
21"	17"	12"	1.80 cu. ft.		D6937	D6939
24"	14⅛"	8"	1.10 cu. ft.		F0143	F0149
26⅛"	18¾"	10½"	2.10 cu. ft.		F0145	F0151
28½"	18¾"	10½"	2.30 cu. ft.		D6938	—
29⅝"	22½"	6⅛"	2.10 cu. ft.		F0146	—
30⅛"	24"	15⅛"	4.70 cu. ft.		D6936	—



Container No. 10E136



Dolly No. 10E141

ORBIS Powered by Menasha Corporation

Stack-and-Nest Containers

- HDPE construction

Integrated system of 180° containers stack when full, with or without a cover. Nest when empty to maximize space. Containers will perfectly cube a 40" x 48" pallet. Gray color.

L	Outside W	H	Volume Cap.	Load Capacity	Item No.
Stack and Nest Containers					
23⅜"	15¾"	5¼"	0.80 cu. ft.	70 lb.	10E136
23⅜"	15¾"	7⅛"	1.00 cu. ft.	70 lb.	10E137
23⅜"	15¾"	8½"	1.30 cu. ft.	70 lb.	10E138
23⅜"	15¾"	10¾"	1.60 cu. ft.	70 lb.	10E139
Lid					
24"	16⅛"	1¼"	—	—	10E140
Container Dolly					
—	—	—	—	650 lb.	10E141

Lids Sold Separately



Rubbermaid Commercial Products

Palletote® Boxes

- HDPE construction

These nestable totes can be stacked with or without lids, for space-efficient, cost-effective storage and transport in a variety of applications. High crack resistance, slip-resistant textured bottoms, and secure snap-on lids help prevent spillage and other accidents. USDA 3A sanitary standards and Meat and Poultry Equipment Group listed. Materials are FDA-compliant for food contact and certified to NSF Std. #2.

Outside L	Outside W	Outside H	Volume Cap.	CONTAINERS Item No.	LIDS Item No.
19½"	15½"	10"	1.30 cu. ft.	9PP41	9U035
19½"	15½"	13"	1.60 cu. ft.	8Y221	9U035
23½"	19½"	10"	2.00 cu. ft.	8AG61	8N033

ORBIS Powered by Menasha Corporation

Green, No. 10E156



Stack-and-Nest Vented Totes

- HDPE construction

Durable handheld containers provide an efficient way to protect and transport products. Ventilated design for easy cleaning, accurate temp. control, and minimized cooling times. Ideal for moist environments. 40-lb. load cap., except No. 49K910 is 70-lb. load cap.

L	Outside W	H	Volume Cap.	Color	Item No.
23⅜"	15¾"	10¼"	1.60 cu. ft.	Green	10E157
23⅜"	15¾"	13¼"	2.10 cu. ft.	Green	10E158
23¾"	16"	7½"	1.20 cu. ft.	Green	10E156
24"	16"	7⅜"	1.00 cu. ft.	Yellow	10E155
24"	16"	8¾"	1.16 cu. ft.	Green	49K910
24"	20"	13½"	2.90 cu. ft.	Beige	10E160
24"	20¼"	6¾"	1.25 cu. ft.	Beige	10E142



Heavy-Duty Fiberglass Stack-and-Nest Containers

MFG TRAY

- Fiberglass-reinforced thermoset composite construction
- Temp. range: -60° to 250°F constant

Bottom container can support a max. stack capacity of 3500 lb. Containers stack when full and nest when empty.

Outside L	Outside W	Outside H	Load Capacity	▶CHOOSE: Container and Lid Color	CONTAINERS Item No.	LIDS Item No.	DOLLIES Item No.
17⅞"	10⅝"	5"	300 lb.	Blue, Gray, Red	D5613	D5619	5EU71
19¾"	12½"	6"	300 lb.		D5614	D5621	5EU74
20½"	12⅞"	8"	300 lb.		D5615	D5622	5EU76
24¼"	14¾"	8"	300 lb.		D5616	D5623	5EU78
25¼"	18"	6"	500 lb.		D5617	D5624	1NTL2
25¼"	18"	10"	500 lb.		D5618	D5624	1NTL2

MFG TRAY

Fiberglass Nesting Boxes

- Fiberglass-reinforced thermoset composite construction
- Load capacity: 50 to 150 lb.
- Temp. range: -60° to 250°F constant

Lightweight containers stack on the lids, and nest when empty to save storage space. Dimensionally stable; can be modified without destroying the structural integrity of the part (drain holes, slotted sides, handles, latches, etc.). Lids available separately.


No. E9326


No. E9328

Outside L	Outside W	Outside H	▶CHOOSE: Box and Lid Color	NESTING CONTAINER Item No.	LIDS Item No.
6⅛"	4⅞"	2⅛"		E9326	E9331
9¾"	6⅛"	2⅛"	Black, Blue, Gray, Red, White	E9327	E9332
9¾"	6⅛"	4½"		E9329	E9332
9¾"	9¼"	2⅛"	Gray, White	D5609	D5612
9¾"	9¼"	4½"		D5611	D5612
11⅜"	9¼"	3⅜"	White	1NTR6	1NTR7
11¾"	8¾"	4⅛"	Black, Blue, Gray, Red, White	E9325	E9330
12⅜"	9¾"	2⅛"		E9328	E9333

LEWIS BINS+ Powered by Menasha Corporation


No. F0109

Fiberglass Stack-and-Nest Containers

- Temp. range: -60º to 250ºF
- Lids are available, see Grainger.com®

Heavy-duty Plexton® fiberglass-reinforced containers are ideal for extreme storage, work-in-progress, and distribution applications. Stack-N-Nest® containers are designed to stack when full and nest when empty at an alternating 180° position. Bottom container in stack can support up to 3000 lb.

Outside L	Outside W	Outside H	Load Cap.	▶CHOOSE: Color	Item No.
17⅞"	10¹³⁄₁₆"	5"	500 lb.	Blue, Yellow, Red, Green, Gray	F0109
19¹³⁄₁₆"	12¹³⁄₁₆"	6"	500 lb.		F0110
20⅝"	13"	8"	500 lb.		F0111
24⅛"	11⅜"	9"	500 lb.		D5451
25⁹⁄₁₆"	18⅛"	10⅛"	500 lb.		F0113
27½"	19⅛"	14⅛"	500 lb.		F0114
30⅝"	16⅞"	11⅛"	500 lb.		F0115
34⅛"	24"	8⅛"	500 lb.		D5453

LEWIS BINS+ Powered by Menasha Corporation


No. D5576


No. D5577

Fiberglass Nesting Containers

- Compression molded-in fiberglass reinforced polyester construction
- Temp. range: -60° to 250°F
- Lids available in blue only

Thin, lightweight Plexton® containers are designed to provide maximum strength and to withstand extreme environments. Ideal for heavy, dense part handling. Nest when empty or stack with lid (sold separately) to optimize work and storage space.

Outside L	Outside W	Outside H	Volume Cap.	Load Capacity	▶CHOOSE: Color	CONTAINERS Item No.	LIDS Item No.
6⅜"	4⅞"	2"	0.03 cu. ft.	25 lb.	Blue, Green, Yellow	D5576	D5582
9⅞"	6¼"	2"	0.06 cu. ft.	50 lb.		D5577	D5583
9⅞"	6¼"	4½"	0.14 cu. ft.	75 lb.		D5578	D5583
11⅞"	8¾"	4"	0.21 cu. ft.	75 lb.		D5579	D5584
12⅜"	9¾"	2"	0.13 cu.ft	75 lb.		D5581	D5585
14⅝"	11⅝"	4"	0.36 cu. ft.	200 lb.	Gray	8TUX1	—

L	Outside W	D	Load Capacity	▶CHOOSE: Color	Item No.
Toteline™ Stacking Containers					
16½"	11⅜"	4⅝"	200 lb.	Gray, White	H3424
17¾"	10½"	4⅛"	200 lb.		H3425
18¾"	11⅞"	1¾"	200 lb.	Blue, Gray, White	H3423
20¾"	11¼"	2⅜"	150 lb.	Gray, White	H3421
22"	12"	1¼"	150 lb.		H3426
23⅜"	12"	3⅛"	200 lb.	Blue, Gray, White	H3427
23⅜"	12"	4⅜"	225 lb.		H3429
23⅜"	12"	6"	300 lb.		H3428
25¾"	17¾"	3"	400 lb.	Gray, White	F8688
25¾"	17¾"	4½"	400 lb.		F8673
25¾"	17¾"	6"	400 lb.		F8686
30⅜"	15⅞"	2¾"	150 lb.		H3422
33"	15⅝"	8"	400 lb.	White	8PTU8
Container Lids					
For Use w/Container Nos. F8688, F8673, and F8686				Gray, White	D5625
For Use w/Container Nos. H3427 to H3429				Blue, Gray, White	H3430
Dolly					
For Use w/Container Nos. F8688, F8673, and F8686				Gray	1UTZ7

MFG TRAY


No. H3425


No. H3423

Toteline™ Fiberglass Stacking Containers

- Fiberglass-reinforced thermoset composite construction
- Temp. range: -60° to 250°F constant

Durable containers resist cutting oils, grease and solvents. Feature radius corners and integral molded-in handles for safe and easy handling. Easy to clean with hot water or steam using standard detergents. Ideal for forgings, machined parts, stampings, ceramics, rubber, and other hot parts emerging from molds or processing machines.

ESD Trays

- Black fiberglass-reinforced thermoset composite material
- Load capacity: 100 to 200 lb.
- Temp. range: -60° to 250°F constant

Minimize handling of PC boards and other electronic components. Surface resistivity ESD trays is 10^5 to 10^{11}.

MFG TRAY

Outside L	Outside W	Outside H	Color	Item No.	
ESD Trays					
13¾"	10⅝"	1"	Black	2TU38	
17¾"	11¾"	1"	Black	2TU40	
18"	14"	1"	Black	2TU39	
25¾"	17⅞"	1⅛"	Black	2TU29	
ESD Tray with Drop Sides					
27"	20"	1"	Black	2TU36	
22½"	20"	1"	Black	2TU37	
24½"	23"	1"	Black	2TU35	
ESD Stacking Trays					
19½"	19½"	1¼"	Black	2TU41	*
26"	20"	1½"	Black	2TU42	*

** Stackable without using tray cart to protect from dust and contamination.*


No. 2TU29



No. D5442



No. 40K429

AKRO-MILS® GRAINGER APPROVED

Modular Divider Boxes

- Industrial-grade polymer construction

Reinforcing ribs and strong stacking rims provide strength, rigidity, and shape retention. Optional black intersecting dividers, sold separately, create efficient multisized compartments.

No. 24WF59 optional 13-ga. steel dolly with four 3" casters helps create a mobile storage unit.

	Outside L	Outside W	Outside H	Item No.	Pkg. Qty.
Label Holders					
	5¾"	4¾"	⅛"	**3HRX5**	6
General Purpose Dolly, GA					
	900-lb. Load Cap., 21¼"L x 16¼"W x 5"H Platform			**24WF59**	1

Outside L	Outside W	Outside H	Cap.	▶CHOOSE: Color	COLOR DIVIDER BOXES Item No.	CLEAR DIVIDER BOXES Item No.	LONG DIVIDERS Item No.	LONG DIVIDERS Pkg. Qty.	SHORT DIVIDERS Item No.	SHORT DIVIDERS Pkg. Qty.	LIDS Item No.	LIDS Pkg. Qty.
10⅞"	8¼"	5"	0.16 cu. ft.	Blue, Gray, Red	**F8520**	**40K428**	**494D07**	6	**494C97**	6	**18C961**	1
16½"	10⅞"	2½"	0.20 cu. ft.	Gray, Red	**J4496**	—	**45YM67**	6	—	—	**18C962**	1
16½"	10⅞"	4"	0.29 cu. ft.	Blue, Gray, Red	**F8505**	**40K429**	**494D08**	6	**494C98**	6	**18C962**	1
16½"	10⅞"	5"	0.39 cu. ft.	Gray, Red	**J4497**	—	**45YM69**	6	—	—	**18C962**	1
16½"	10⅞"	6"	0.44 cu. ft.	Blue, Gray, Red	**F8518**	**40K430**	**494D09**	6	**494C99**	6	**18C962**	1
16½"	10⅞"	8"	0.59 cu. ft.		**F8532**	**40K431**	**494D10**	6	**494D01**	6	**18C962**	1
22⅜"	17⅜"	4"	0.61 cu. ft.		**F8515** *	—	**494D13**	6	**494D04**	6	**10A123**	1
22⅜"	17⅜"	6"	0.96 cu. ft.		**F8514** *	**40K435**	**494D14**	6	**494D05**	6	**10A123**	1
22⅜"	17⅜"	8"	1.30 cu. ft.		**F8513** *	—	**494D15**	6	**494D06**	6	**10A123**	1
22⅜"	17⅜"	10"	1.66 cu. ft.		**F8516** *	**40K432**	**494D11**	6	**494D02**	6	**10A123**	1
22½"	17⅜"	3⅛"	0.47 cu. ft.	Red, Blue, Gray	**D5442**	—	**494D12**	6	**494D03**	6	**10A123**	1
22½"	17½"	12"	2.10 cu. ft.		**J4498**	—	**45YM71**	6	—	—	**10A123**	1

**** Optional dolly is No. 24WF59.***



Conductive Dividable Grid Containers

QUANTUM™ STORAGE SYSTEMS

- Extra-thick, reinforced walls for rigidity
- Surface resistivity <10^5 Ohms per square
- Electrostatic decay rate is tested to meet Mil. Spec. B81075B at <0.1 seconds
- Bin Hanging Systems are available, see Grainger.com®

Permanently conductive, black polypropylene bins protect electronic components during storage and transportation. Customize box with long or short dividers (sold separately) into compartments at 1⅛" intervals. Unaffected by washing with normal cleaners. 100-lb. capacity. Blue-tinted label holders and black covers available separately. Must be properly grounded before use.

Outside L	Outside W	Outside H	BINS Item No.	SHORT DIVIDERS, PKG. OF 6 Item No.	LONG DIVIDERS, PKG. OF 6 Item No.	COVERS Item No.	LABEL HOLDERS, PKG. OF 6 Item No.
10⅞"	8¼"	3½"	**2TB27**	**11M579**	**11M568**	**2TB54**	**11M597**
	8¼"	5"	**2TB28**	**11M580**	**11M569**	**2TB54**	**11M598**
16½"	10⅞"	3½"	**2TB29**	**11M581**	**11M570**	**2TB55**	**11M597**
	10⅞"	6"	**2TB30**	**11M582**	**11M571**	**2TB55**	**11M598**
	10⅞"	8"	**2TB31**	**11M583**	**11M572**	**2TB55**	**11M599**
22½"	17½"	3"	**2TB32**	**11M584**	**11M573**	**2TB56**	**11M597**
	17½"	6"	**2TB33**	**11M585**	**11M574**	**2TB56**	**11M598**
	17½"	8"	**2TB34**	**11M586**	**11M575**	**2TB56**	**11M599**
	17½"	12"	**2TB35**	**11M587**	**11M576**	**2TB56**	**11M599**



No. 49H885



No. 49H890



No. 49H894

ELB Containers

SSI SCHÄFER

Lightweight but extremely sturdy containers work great for all-around, every day use. Easy to clean, resists grease, soils and most alkalis. Designed to meet OSHA recommendation of max. 40-lb. handheld weight for improved ergonomics while storing more product per container.

Outside L	Outside W	Outside H	Cap.	Color	CONTAINERS Item No.	LIDS WITH CLIPS Item No.	1-HINGE LIDS Item No.	2-HINGE LIDS Item No.
16"	12"	5"	0.37 cu. ft.	Gray	**49H885**	**49H890**	**49H892**	**49H894**
16"	12"	9"	0.69 cu. ft.		**49H886**	**49H890**	**49H892**	**49H894**
24"	16"	5"	0.80 cu. ft.		**49H887**	**49H891**	**49H893**	**49H895**
24"	16"	9"	1.53 cu. ft.		**49H888**	**49H891**	**49H893**	**49H895**
24"	16"	13"	2.19 cu. ft.		**49H889**	**49H891**	**49H893**	**49H895**



No. 39T741 shown with Optional Bin Cups



No. 39T742

Multi-Load Totes

AKRO-MILS

- Straight wall design for high-cube on pallets and AS/RS systems
- Dividers are available, see Grainger.com®

Versatile totes for order picking, automated storage retrieval systems, and conveyors. Maximize space and feature a sidewall clip design that allows cups and dividers to be securely and quickly attached.

	Outside L	Outside W	Outside H	Color	Capacity	Item No.
Straight Wall Container						
	23⅜"	15¾"	8⅝"	Gray	1.50 cu. ft.	**39T741**
Bin Cups						
	5⅜"	7¼"	8⅜"	Yellow	0.14 cu. ft.	**39T742**

Attached-Lid Containers

ORBIS® Powered by Menasha Corporation

- HDPE injection-molded; Clear units are polypropylene

Colored Attached-Lid Containers— Attached lids prevent loss of product. Stack with lids closed and nest when open. 70-lb. capacity.

Clear Attached-Lid Containers—Clear, translucent FliPak® containers stack when closed and nest when empty for optimal use of space. 40-lb. capacity.

L	Outside W	H	Volume Cap.	▶CHOOSE: Color	COLOR CONTAINERS Item No.		CLEAR CONTAINERS Item No.
11¾"	9¾"	7¾"	0.30 cu. ft.	Blue, Gray	H4627		3CLU6
15¼"	10 15/16"	9⅞"	0.60 cu. ft.	Blue, Gray	H5663		3CLU7
19¾"	11¾"	7¼"	0.70 cu. ft.	Blue, Gray	H7036		3CLU8
20⅜"	13¼"	11⅝"	1.40 cu. ft.	Gray	10E130		—
20⅜"	13½"	6½"	0.80 cu. ft.	Gray	10E128		—
20¾"	13⅜"	9¾"	1.00 cu. ft.	Gray	10E129		—
21¾"	15 3/16"	17⅛"	2.20 cu. ft.	Blue, Gray	J0286		3CLV1
21 13/16"	14 15/16"	12⅛"	1.70 cu. ft.	Gray	49K914		—
21⅞"	15¼"	12⅞"	1.80 cu. ft.	Blue, Gray, Green, Red	E3369		49K917
21 15/16"	15¼"	9⅜"	1.30 cu. ft.	Blue, Gray, Red	H6168		—
22¼"	13"	13¾"	1.60 cu. ft.	Blue, Gray	E3358		—
23½"	15¾"	13"	1.90 cu. ft.	Gray	10E131		—
23⅞"	19½"	12½"	2.70 cu. ft.	Blue, Gray, Red	E3391		3CLV3
26⅞"	16⅞"	12⅛"	2.30 cu. ft.	Blue, Gray, Green, Red	E3380		3CLV2
27⅞"	20⅞"	15 13/16"	4.00 cu. ft.	Blue, Gray, Red	E3402	*	—
30"	22"	20½"	6.10 cu. ft.	Gray	21P615		—
39"	14"	13"	3.30 cu. ft.	Gray	10E132		—

** Self-standing lid feature.*



No. H5663



No. 3CLU8



No. E9243



No. 10E133



No. 3FZC2

ORBIS® Powered by Menasha Corporation BUCKHORN®

Straight Wall Containers

- HDPE construction
- See Grainger.com® for additional sizes and lids

ORBIS®—StakPak containers are used for all types of long parts, drawings, bumpers and molding strips. Stack securely to maximize work space. Dairy Crate No. 10E133 has 40-lb. load capacity.

Buckhorn®—Straight wall design maximizes the cube of a standard 48" x 45" pallet. Units with same footprint are stackable. Molded-in ergonomic handles for a comfortable grip.

L	Outside W	H	Cap.	▶CHOOSE: Color	CONTAINERS Item No.	LIDS Item No.
ORBIS® StakPak						
12"	7 1/16"	5"	0.13 cu. ft.	Blue, Gray	H6169	—
12"	15"	5"	0.32 cu. ft.	Blue, Gray, Green	E9243	E9246
12"	15"	7½"	0.48 cu. ft.		E9244	E9246
12"	15"	9½"	0.62 cu. ft.		E9245	E9246
24"	15"	11½"	1.78 cu. ft.		H6170	E7309
24"	15"	14½"	2.20 cu. ft.		E7308	E7309
24"	15"	5"	0.72 cu. ft.		E7303	E7309
24"	15"	7½"	1.09 cu. ft.		E7304	E7309
24"	15"	9½"	1.42 cu. ft.		E7307	E7309
24"	22½"	10¾"	2.64 cu. ft.		F1326	8UYJ4
32"	15"	7½"	1.50 cu. ft.		D5575	49K908
48"	15"	7½"	2.30 cu. ft.		F9002	—
48"	15"	10¾"	3.50 cu. ft.		F9001	—
48"	22½"	7¼"	3.50 cu. ft.		F9000	—
ORBIS® Dairy Crate						
13⅛"	13⅛"	11"	1.10 cu. ft.	Black	10E133	—
Buckhorn® Containers						
24"	15"	7½"	1.11 cu. ft.	Gray	3FZA3	—
24"	15"	14½"	2.23 cu. ft.		3FZA7	—
32"	15"	7½"	1.52 cu. ft.		3FZA9	—
48"	15"	7½"	2.35 cu. ft.		3FZC2	—



Rubbermaid® Commercial Products

Utility Totes

- Polyethylene construction

Reinforced handles, bottom, and ribs provide economical heavy load storage. Easy-to-clean, round-corner design. Commercial dishwasher-safe. Gray lid available separately.

Volume Capacity	Outside L	Outside W	Outside H	▶CHOOSE: Color	Item No.
Nesting Container					
0.61 cu. ft.	20"	15"	5"	Gray, White	H3505
0.94 cu. ft.	21½"	17⅛"	7"	Brown, Gray	H3506
Lid					
Lid for No. H3505				Gray	5M687



THE KENNEDY GROUP® LABELING AND PACKAGING SOLUTIONS TRACK, TRACE AND ID SOLUTIONS DIRECT RESPONSE SOLUTIONS

Container Placard Label Holders

Feature Hold & Release Technology™ that eliminates messy and mislabeled returnable containers.

Economy—For indoor applications on plastic and corrugated materials. Use where washing is limited.

All-Purpose—For outdoor and indoor applications on plastic and metal. Excellent washing capabilities with mild detergents.

W	L	Thickness	Color	Item No.	Pkg. Qty.
Economy					
3"	5"	⅛"	White	49K205	25
4½"	6½"	⅛"		49K207	25
All-Purpose					
3"	5"	⅛"	White	49K206	25
4½"	6½"	⅛"		49K208	25



Blue
No. G2677



Gray
No. F8714



Gray
No. 39UV70



Black/Gray
No. 33RF07

hõmz Rubbermaid Commercial Products Sterilite® J. Terence Thompson

Storage Totes with Lids

Durabilt®—Stackable for maximum space utilization. Durable with impact-resistant corners. Easy to carry with 4 handle grip areas. Bases nest inside each other when not in use.

Rubbermaid®—Brute® Tote containers have reinforced ribbed bottom that allow them to be dragged. Lids snap tight to keep contents secure and dry. Holes in easy-access handles allow water to drain. Containers stack securely to save space.

- Commercial-grade construction

Sterilite®—Durable totes can be stacked securely on top of each other. Contoured ends provide a comfortable surface for lifting and moving. Include molded handles for easy transport along with an opaque base and lid that allow contents to be concealed.

Durabilt® Recycled—Multipurpose, eco-friendly totes are made from 99% recycled material. 4 built-in grip areas for carrying. Stackable.

J. Terrence Thompson Recycled—Reinforced padlock holes and ribs increase security. Nest when empty; stack securely with lids. Ideal for lightweight, cost-effective storage. 70-lb. load capacity. Snap-fit lid and large molded handles ease transport. Planet Friendly Plastic™ recycled polypropylene construction. Slate blue color.

No. 415M74 features thick-wall design for superior strength; excellent for repeated use. Has a 400-lb. load capacity. Flat, black color with lockable lid.

Volume Capacity	Outside Dim. H	L	W	▶CHOOSE: Color	Item No.
Storage Totes with Lids					
Durabilt®					
18.0 gal.	15½"	23½"	17½"	Blue, Gray	**G2677**
32.0 gal.	17¾"	31⅛"	20"		**G2678**
49.0 gal.	18½"	38⅛"	24"		**G2676**
Rubbermaid Commercial Products					
14.0 gal.	10¾"	27⅛"	16½"	Gray, White	**F8714**
20.0 gal.	15⅛"	27⅛"	17⅝"		**F8728**
Sterilite®					
45.0 gal.	19½"	36⅝"	21"	Gray	**39UV70**
Recycled Storage Totes with Lids					
Durabilt®					
18.0 gal.	15½"	23½"	17½"	Black/Gray	**33RF07**
32.0 gal.	17¾"	31⅛"	20"		**33RF08**
J Terence Thompson					
27.0 gal.	14¾"	28½"	19¾"	Black	**415M74**



No. 13N880



No. 49H269



No. 13N910

hõmz

Durabilt® Modular Clear Storage Totes

Ultra-clear modular design allows customized stacking across all sizes to maximize storage space. Large contoured latches snap lid securely in place.

Volume Capacity	Outside Dim. H	L	W	Item No.	
1.8 gal.	6⅛"	16¼"	7"	**49H268**	
3.9 gal.	6⅛"	16¼"	13"	**13N880**	
7.7 gal.	12⅛"	16¼"	13"	**13N881**	
10.0 gal.	13½"	19"	15¾"	**13N910**	
15.0 gal.	6⅛"	40"	20"	**49H269**	*
16.0 gal.	10⅝"	28¾"	16"	**49H267**	
22.0 gal.	17¼"	23¾"	18"	**13N912**	
28.0 gal.	18¼"	28¾"	16"	**13N883**	

Mobile, includes wheels.



No. 49H270



No. 13N917

hõmz

Durabilt® Heavy-Duty Storage Totes

Tough Totes—Thick, durable tote features superior stacking support, 6 hasp areas for tie-down straps or locks, and a strong handle.

LLDPE Totes—Impact-resistant totes are extremely flexible, resistant to blemishes and dents, and shatterproof. Weather-resistant material hold up well in extreme elements. Nos. 38LU47 through No. 38LU49 feature latches to keep contents secure.

Locker Boxes—Thick and durable construction features a hinged lid for easy access, padlock hasp for extra security, secure closures, and a strong handle design.

Volume Capacity	Color	Outside Dim. H	L	W	Item No.
Tough Totes					
15.0 gal.	Black/Yellow	12¼"	26"	17¾"	**49H270**
27.0 gal.	Black/Yellow	14⅜"	30¾"	20½"	**49H271**
LLDPE Totes					
18.0 gal.	Black/Yellow	16½"	22½"	17½"	**45MW95**
Latching LLDPE Totes					
10.0 gal.	Black/Yellow	13¼"	19"	15¾"	**38LU47**
22.0 gal.	Black/Yellow	17¼"	23¾"	18"	**38LU48**
31.0 gal.	Black/Yellow	17¼"	28½"	18⅞"	**38LU49**
LLDPE Totes					
34.0 gal.	Black	18½"	32½"	16¾"	**13N917**
Locker Boxes					
Totelocker with Tray	Black/Yellow	14⅝"	23⅜"	19"	**38LU45**



No. 39UV72

Sterilite®

Latched Clear Storage Boxes

Ergonomic latches attach the lid securely to the box and are easy to unlatch. See-through base allows you to easily view contents and multiple boxes are able to stack on top of each other.

Volume Capacity	Outside Dim. H	L	W	Item No.
4.5 gal.	7"	18⅛"	12¼"	**39UV72**
6.2 gal.	7¾"	19⅞"	15½"	**52JM06**
10.2 gal.	6⅛"	34⅞"	16⅜"	**52JM10**
12.0 gal.	9¼"	23⅜"	18⅜"	**52JL98**
12.5 gal.	14¾"	19⅞"	15½"	**52JM07**
18.0 gal.	13⅜"	23⅜"	18⅜"	**52JM01**
26.0 gal.	20⅛"	23⅜"	18⅜"	**52JM03**



Cross-Stacking Tub, No. 4HY34



Mobile Tub Rack (Tubs sold separately.) No. 16D037

AKRO-MILS® ★ GA GRAINGER APPROVED

Cross-Stacking Tubs and Rack

Lightweight, durable tubs nest when empty and cross-stack 90° for convenient storage. Comfortable handles for easy lifting. Akro-Mils products feature industrial-strength, FDA-sanctioned copolymer material that is smooth and easy to clean.

Mobile Cross-Stacking Tub Rack—Stainless steel rack includes 12 gray bins.

L	Outside W	H	Cap.	Color	Brand	Item No.
Cross-Stacking Tubs						
17¼"	11"	8"	0.51 cu. ft.	Gray	Akro-Mils	**4HY31**
19"	24½"	9½"	2.19 cu. ft.	Gray	Akro-Mils	**8AHX0**
23¾"	17¼"	8"	1.31 cu. ft.	Gray	Akro-Mils	**4HY33**
23¾"	17¼"	12"	1.93 cu. ft.	Gray	Akro-Mils	**4HY34**
Mobile Cross-Stacking Tub Rack						
36¾"	26"	73¾"	—	—	Durham Mfg	**16D037**

Rubbermaid Commercial Products

Structural Foam Stock Tanks

- 1½" drain opening
- Drain plug included

Seamless black high-density structural foam tanks hold liquids and granular materials without leaking. Structural foam is durable in all kinds of weather.



150 gal. No. 1MDB6

Cap.	Outside Dim. L	W	H	Item No.
50 gal.	52"	31"	12"	**1MDC1**
100 gal.	53"	31"	25"	**1MDB7**
150 gal.	58"	39"	25"	**1MDB6**
300 gal.	63¼"	69"	25"	**1MDB5**
Replacement Drain Plug Kit				**1MDB9**



Navy No. G2681

homz

Rope-Handled Tubs

Durable multipurpose tub has heavy-duty nylon ropes for easy carrying. Easy access storage container for indoor and outdoor use.

Volume Cap.	▶CHOOSE: Color	Outside Dim. H	W	Item No.
18.0 gal.	Black, Navy	16½"	21½"	**G2681**



Cross-Stacking Tubs



Rack with Tubs No. G7057

QUANTUM™ STORAGE SYSTEMS

Cross-Stacking Tubs and Racks

Nesting totes are constructed from easy-to-clean, injection-molded high-density polypropylene. Each tote can hold up to 100 lb. Rolled top rim provides comfortable grip, and rounded corners add strength to stress points. Six ¼" drill hole pattern on bottom of bins for easy hole insertion for optional air flow and drainage.

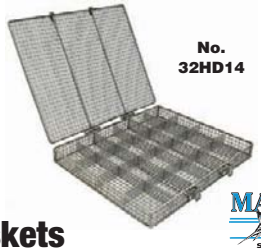
All-welded aluminum tub racks transport and store a variety of products. Runners allow bins to slide in and out from both sides.

L	Outside W	H	▶CHOOSE: Color	TUBS/TOTES Item No.	LIDS Item No.
Nesting Tote					
24½"	19"	9½"	Blue, Gray	**G7058**	—
Cross-Stacking Tubs					
17¼"	11"	8"	Blue, Gray, White	**G2983**	**G8854**
17¼"	11"	12"		**G2982**	**G8854**
23¾"	17¼"	8"		**G2985**	**G8855**
23¾"	17¼"	12"		**G2984**	**G8855**
25⅛"	16"	8½"	Blue, Gray, White, Red, Yellow	**G2986**	**G8856**

W	Overall D	H	▶CHOOSE: Bin Color	Includes	Item No.
Racks w/Tubs					
16"	25"	21"	Gray	(1) 25"L x 16"W x 1¼"H Tub	**414X85**
16"	25"	21"	Blue	(1) 25"L x 16"W x 1¼"H Tub	**414X86**
18"	26"	42"	Gray	(3) No. G2986 Tubs	**16D010**
19"	27"	41"	Gray	(3) No. G2986 Tubs	**G7055**
19"	27"	51"	Blue, Gray, White	(4) No. G2986 Tubs	**G7056**
19"	27"	61"	Gray, White	(5) No. G2986 Tubs	**G7057**
19"	27"	71"	White	(6) No. G2986 Tubs	**F1589**



No. 32HD23



No. 32HD14

MARLIN STEEL

Parts Washing Baskets

Rugged baskets are ideal for washing parts, ultrasonic cleaning, and for curing in chemical bath, heating treating, and cryogenics applications. Can also be used as cleaning and degreasing baskets. Baskets with handles allow for easy gripping. Dividers and lids keep parts securely in place. More sizes and styles are available, see Grainger.com®.

L (in.)	W (in.)	H (in.)	Material	Finish	Mesh Size	Item No.
Mesh Baskets with Handles						
10	14½	8	Steel	Plastic Coat	#4	**32HD23**
12	17½	9	Steel	Plastic Coat	#4	**32HD29**
13½	13½	8	Steel	Plastic Coat	#4	**32HD30**
13½	13½	8	Stainless Steel	Electropolish	#4	**32HD22**
15	10	8	Stainless Steel	Electropolish	#4	**32HD21**
18	12	9	Stainless Steel	Electropolish	#4	**32HD26**
18	18	9	Stainless Steel	Electropolish	#4	**32HD20**
18¾	11¾	3	304 Stainless Steel	Raw	#4	**32HD12**
Mesh Baskets with Lids						
3 1/32	3 25/64	4	Stainless Steel	Electropolish	#6	**32HD28**
11	6½	2¾	Stainless Steel	Raw	#12	**32HD18**
14	10	6	Stainless Steel	Electropolish	#4	**32HD19**
16	11	3	Stainless Steel	Electropolish	#4	**32HD13**
Mesh Baskets with Lids and Adjustable Dividers						
20¼	16¼	2 7/16	Stainless Steel	Raw	#2	**32HD14**

H (in.)	Dia. (in.)	Material	Finish	Mesh Size	Item No.
Round Mesh Baskets with Handles					
8	9½	Steel	Plastic Coat	#4	**32HD25**
8	10	Stainless Steel	Electropolish	#4	**32HD27**



Mesh Sides/ Solid Bottom



Solid Sides and Bottom

AKRO-MILS® SSI SCHAEFER GA GRAINGER APPROVED

Heavy-Duty Stacking Containers

- HDPE construction
- Resist stress cracks, and most solvents and chemicals
- 1320-lb. stacking capacity
- Sized to cube out 48" x 40" pallets for maximum efficiency

Ergonomically designed hand holes on all 4 sides. Optional dolly provides easy movement of stacked containers.

Solid Sides and Bottoms—Ideal for small or loose items and most conveyor systems.

Mesh Sides and Bottoms—Provide visibility and ventilation—great for refrigeration or drying.

Outside L	Outside W	Outside H	Cap.	Color	Brand	SOLID SIDES AND BOTTOM Load Capacity	SOLID SIDES AND BOTTOM Item No.	MESH SIDES AND BOTTOM Load Capacity	MESH SIDES AND BOTTOM Item No.	MESH SIDES/ SOLID BOTTOM Load Capacity	MESH SIDES/ SOLID BOTTOM Item No.
15¾"	11¾"	8¼"	0.88 cu. ft.	Gray	Akro-Mils	83 lb.	**5YN07**	30 lb.	**5YN05**	83 lb.	**5YN06**
16"	12"	9"	0.68 cu. ft.		Ssi Schaefer	40 lb.	**49H886**	—	—	—	—
23¾"	15¾"	8¼"	1.78 cu. ft.		Akro-Mils	83 lb.	**5YN16**	45 lb.	**5YN08**	83 lb.	**5YN13**
23¾"	15¾"	12¼"	2.65 cu. ft.		Akro-Mils	125 lb.	**5YN14**	45 lb.	**5YN09**	125 lb.	**5YN11**
23¾"	15¾"	16⅛"	3.49 cu. ft.		Akro-Mils	150 lb.	**5YN15**	45 lb.	**5YN10**	150 lb.	**5YN12**
24"	16"	9"	1.50 cu. ft.		Ssi Schaefer	40 lb.	**49H888**	—	—	—	—
24"	16"	13"	2.21 cu. ft.		Ssi Schaefer	40 lb.	**49H889**	—	—	—	—
24"	16"	17"	2.96 cu. ft.		Ssi Schaefer	55 lb.	**4VL90**	—	—	—	—



No. 24WF58

Description	Brand	Item No.
Dolly		
24¼"L x 16¼"W, Includes (4) 3" x 1¼" Polyolefin Swivel Casters	GA	**24WF58**



No. 19MP07



No. 19MP11



No. 38XV51



No. 38XV53

ShopTough

Containment and Canvas Bulk Transfer Bags

Containment Bags—Strong, coated recyclable material is ideal for clean-up jobs, disposal projects, heavy loads, and lifting. Bags are easily moved by a fork-lift and feature duffel or spout tops with ties for securing contents. Collapsible for easy storage.

Canvas Bulk Transfer Bags—Nos. 38XV51 and 38XV52 have a removable bottom plastic insert and an open top with 2 hook-and-loop closure strips to secure carrying and lifting tools. No. 38XV53 has an open top and a 2-ply bottom. All bags have 2" reflective webbing with D-rings that extend 12" above the top of the bags.

Outside L	Outside W	Outside H	Folded L	Folded W	Folded H	Load Cap.	Color	Pkg. Qty.	Item No.
Standard Duty Containment									
Includes Spout Top and Spout Bottom									
36"	36"	36"	14"	14"	4"	2500 lb.	White	5	**38XV43**
36"	36"	45"	14"	14"	4"	2500 lb.	White	5	**38XV44**
36"	36"	52"	24"	24"	6"	2500 lb.	White	5	**38XV45**
Includes Duffle Top and Spout Bottom									
36"	36"	36"	14"	14"	4"	2500 lb.	White	5	**38XV46**
36"	36"	45"	14"	14"	4"	2500 lb.	White	5	**38XV47**
36"	36"	52"	24"	24"	6"	2500 lb.	White	5	**38XV48**
Heavy-Duty Containment									
Includes Forklift Handles and Duffle Top									
20"	20"	24"	14"	14"	3"	500 lb.	White	1	**19MP07**
24"	24"	24"	14"	14"	4"	1000 lb.	Black	1	**19MP10**
30"	30"	36"	14"	14"	3"	1000 lb.	White	1	**19MP08**
35"	35"	35"	14"	17"	4"	1500 lb.	White	1	**19MP11**
42"	42"	42"	14"	14"	6"	2205 lb.	White	1	**19MP12**
Includes Built-In Liner, Pad and Duffle Top									
40"	40"	50"	18"	15"	10"	2205 lb.	Black	1	**19MP14**
Canvas Bulk Transfer									
Includes 2 Top Row Hook & Loop Closure Strips and Removable Plastic Bottom									
26"	24"	10"	28"	28"	4"	150 lb.	Red	1	**38XV51**
26"	24"	10"	28"	28"	4"	150 lb.	Black	1	**38XV52**
Includes Open Top and 2-Ply Bottom									
58"	20"	18"	14"	14"	8"	150 lb.	Black	1	**38XV53**

NashvilleWire PRODUCTS

Collapsible Wire Storage Containers

- Drop gate design allows easy access
- 3⅞" underclearance allows easy movement by fork trucks with 4-way entry access
- Zinc-electroplated finish

Open-wire design allows full visibility for easy inventory checks, excellent ventilation, and improved cleanliness. Units fold down flat to stack for storage and reduce return shipment costs.

Nashville Wire Jr.—Load-bearing surfaces along top edges of each wall feature double-wire reinforcements. Stackable up to 3 units high. All-welded base reinforces and protects legs and deck edges. No. 3W547 has 1" x 1" mesh. No. 3W548 has ½" x ½" mesh.

Nashville Wire—Welded channel base safely stacks up to 4 high. Flow-through base mat design.



Container
No. 3W547



Container with Casters
No. 5EU67



Container with Security Lid
No. 5EU69

Outside L	Outside W	Inside Length	Inside Width	Inside Height	Gauge	WITHOUT CASTERS Outside H	Load Cap.	Item No.		WITH CASTERS Outside H	Load Cap.	Item No.	
Nashville Wire Jr. Collapsible Wire Containers													
20"	32"	18"	30"	16"	11	21"	1000 lb.	**3W547**	*	21"	1000 lb.	**5EU66**	*
20"	32"	18"	30"	16"	11	21"	1000 lb.	**3W548**	*	22"	1000 lb.	**24VT21**	
Nashville Wire Collapsible Wire Containers													
32"	40"	30"	38"	28"	11	34½"	4000 lb.	**3W550**	*	35½"	2800 lb.	**5EU67**	*
32"	42"	31"	41"	33"	11	39"	2000 lb.	**5EU65**	*	—	—	—	
40"	48"	38"	46"	24"	11	30½"	4000 lb.	**5EU63**	*	—	—	—	
40"	48"	38"	46"	30"	11	36½"	4000 lb.	**3W552**	*	37½"	2800 lb.	**5EU68**	*
40"	48"	38"	46"	36"	11	42½"	4000 lb.	**5EU64**	*	—	—	—	
32"	42"	30"	40"	33"	3	—	—	—		40"	2000 lb.	**24VT22**	
40"	48"	38"	46"	24"	3	—	—	—		32"	4000 lb.	**24VT23**	
40"	48"	38"	46"	36"	3	—	—	—		44"	4000 lb.	**24VT24**	
w/Security Lids													
32"	40"	30"	38"	28"	3	34½"	4000 lb.	**5EU69**	*	—	—	—	
40"	48"	38"	46"	30"	11	36½"	4000 lb.	**5EU70**	*	—	—	—	

Meet or exceed ANSI specifications.

Collapsible Wire Storage Containers

worldwide materialhandling

Units stack up to 4 high to optimize available storage space. Heavy-gauge wire and fully welded base have a rust-resistant electro-galvanized zinc finish; withstands harsh conditions. Feet and base are robotically welded for excellent durability. Additional accessories are available online, see Grainger.com®.

Outside L	Outside W	Outside H	Inside Length	Inside Width	Inside Height	Load Cap.	Gauge	Item No.
Collapsible Wire Containers								
20¼"	33½"	22¼"	19"	32"	16"	1500 lb.	11	**21D069**
32"	41½"	33"	30½"	37¾"	27½"	4000 lb.	3	**21D070**
40"	48½"	35"	38¼"	45½"	29½"	4000 lb.	3	**21D071**
40"	48½"	41"	38¼"	45½"	35½"	4000 lb.	3	**21D072**
Collapsible Wire Containers w/Casters								
20¼"	33½"	22¼"	19"	32"	16"	1500 lb.	11	**21D073**
32"	41½"	33"	30½"	37¾"	27½"	4000 lb.	3	**21D074**
40"	48½"	35"	38¼"	45½"	29½"	4000 lb.	3	**21D075**
40"	48½"	41"	38¼"	45½"	35½"	4000 lb.	3	**21D076**
Collapsible Wire Containers w/Security Lid								
20¼"	33¾"	22¼"	19"	32"	16"	1500 lb.	11	**19YR08**
32"	41½"	33"	30½"	37¾"	27½"	4000 lb.	3	**21D077**
40"	48½"	35"	38¼"	45½"	29½"	4000 lb.	3	**21D078**
40"	48½"	41"	38¼"	45½"	35½"	4000 lb.	3	**21D079**
Collapsible Wire Containers w/Divider								
32"	41½"	33"	30½"	37¾"	27½"	4000 lb.	3	**21D080**
40"	48½"	35"	38¼"	45½"	29½"	4000 lb.	3	**21D081**
40"	48½"	41"	38¼"	45½"	35½"	4000 lb.	3	**21D082**



Container
No. 21D069



Container with Casters
No. 21D075



Container with Security Lid
No. 21D078



Container with Divider
No. 21D082

Rigid Wire Containers

NashvilleWire PRODUCTS

- 4-way fork entry

Durable containers can hold up to 4000 lb., even with 3 more fully loaded containers stacked on top. The 2-ga. wire sides and end panels are reinforced for extra protection and the base is constructed of heavy-duty, roll-formed channel. 3" x 3" x 3/16" angle iron corner posts have stacking gussets for superior strength. Each unit has a half-drop gate on the long side.

Outside Dim. L	Outside Dim. W	Outside Dim. H	Inside Dim. L	Inside Dim. W	Inside Dim. H	Load Cap.	Gauge	Item No.
32"	40"	34"	30"	38"	28"	4000 lb.	2	**20JK01**
40"	48"	36"	38"	46"	30"	4000 lb.	2	**20JJ98**
40"	48"	42"	38"	46"	36"	4000 lb.	2	**20JJ99**



No.
20JJ98



No. 4TF40



No. 2YA79



No. 3HFJ6



No. 9CXA0

	Outside Dim.					
	L	W	H	Use With	Brand	Item No.
Accessories						
Lids						
	33"	31"	2"	1XGG5, 1NUR6, 14L049, 14L050	Buckhorn	**4TF36**
	40"	48"	2"	4TF40, 4TF41	Buckhorn	**4TF39**
	45"	48"	3"	2YA80, 2YA81	Buckhorn	**4TF37**
	48"	40"	2¼"	1XGG6	Buckhorn	**1XGG8**
	48"	45"	2¼"	1XGG7	Buckhorn	**1XGG9**
	48½"	40¼"	2⅞"	1NUR7, 1NUR8	Buckhorn	**1NUR9**
Dolly						
	48"	40"	8"	—	ORBIS	**9CXA0**

** Steel corner hitplates prevent damage from fork tines.*

BUCKHORN ORBIS Powered by Menasha Corporation

Bulk Collapsible Containers

- 4-way fork entry

Buckhorn—Lightweight, impact-resistant, HDPE structural-foam construction is maintenance-free and recyclable. Sanitary use from factory to field, industrial to grocery. Fold down to save space. Feature 2 access doors on opposite sides. Nos. 1XGG6 and 1XGG7 feature steel runners that add extra strength, and an interlocking post-and-pocket panel design that keeps walls upright, even under heavy loads. No. 2ZRR8 welded-steel dolly has up to 2000-lb. capacity. 5" casters, 2 fixed, 2 swivel.

ORBIS—Stackable to optimize warehouse space. Reusable containers are an economic and environmentally-preferred alternative to single-use gaylords. Containers are structural foam molded polyethylene and are moisture resistant and easily cleaned. Nos. 3HFJ6 and 3HFJ7 have solid side walls and a ventilated base.

	Outside Dim.			Inside Dim.			Load			Item	
	L	W	H	L	W	H	Cap.	Color	Brand	No.	
Collapsible Bulk Containers											
	32"	30"	25"	29⅜"	27¼"	17⅜"	1800 lb.	Black	Buckhorn	**14L050**	
		30"	34"	29½"	27⅜"	27¼"	1800 lb.	Black	Buckhorn	**1NUR6**	*
	39⅜"	47⅝6"	25⅝6"	43⅜"	36"	18½"	2000 lb.	Black	ORBIS	**49H260**	
		47⅝6"	34⅝6"	43⅜"	36"	27⅝"	2000 lb.	Black	ORBIS	**49H261**	
	48"	40"	25"	44"	36⅜6"	18⅝6"	2500 lb.	Black	Buckhorn	**36XE23**	
		40"	33"	45"	37"	28"	1200 lb.	Blue	Buckhorn	**4TF40**	
		40"	34"	44"	36¼"	26½"	2500 lb.	Black	Buckhorn	**1XGG6**	
		40"	34"	45"	36½"	27⅛6"	2000 lb.	Black	ORBIS	**8YKH1**	
		40"	39"	45"	36½"	32⅛6"	2000 lb.	Black	ORBIS	**9FGR4**	
		40"	40"	44⅛"	36¼"	32⅝"	1600 lb.	Black	Buckhorn	**1NUR8**	
		40"	46"	45"	37"	41"	1200 lb.	Blue	Buckhorn	**4TF41**	
		45"	25"	44½"	41½"	18⅝6"	2500 lb.	Black	Buckhorn	**39H822**	
		45"	34"	44¼"	41¼"	27⅛"	2500 lb.	Black	Buckhorn	**1XGG7**	
		45"	34"	44½"	41½"	27"	2500 lb.	Blue	Buckhorn	**39H824**	
		45"	34"	44½"	41½"	27"	2500 lb.	Black	Buckhorn	**39H823**	
		45"	41"	44½"	41½"	34"	2000 lb.	Black	Buckhorn	**36XE25**	
		45"	44"	44½"	41½"	37"	2000 lb.	Black	Buckhorn	**36XE26**	
		45"	51"	44½"	41½"	44"	2000 lb.	Black	Buckhorn	**36XE27**	
Extended Length Collapsible Bulk Containers											
	56½"	48"	25⅝"	53⅝6"	44Ⅼ⅜6"	18"	2000 lb.	Black	ORBIS	**49H264**	
	62½"	48"	25"	59"	44½"	17⅝6"	1500 lb.	Black	ORBIS	**49H265**	
		48"	34"	59"	44½"	27½"	1500 lb.	Black	ORBIS	**3HFJ6**	
		48"	50"	59"	44½"	43½"	1500 lb.	Black	ORBIS	**3HFJ7**	
	64"	48"	34"	60⅛"	44½"	27"	2000 lb.	Black	Buckhorn	**2YA79**	
	64½"	48"	34⅝"	61⅝6"	44Ⅼ⅜6"	26Ⅼ⅜6"	2000 lb.	Black	ORBIS	**49H266**	
	70"	48"	34"	66⅜"	44½"	26⅔"	1500 lb.	Black	ORBIS	**3HFJ8**	
	78"	48"	34"	74½"	44½"	26⅔"	1500 lb.	Black	ORBIS	**3HFJ9**	



No. 10A142



No. 49H263

BUCKHORN ORBIS Powered by Menasha Corporation

Bulk Noncollapsible Containers

- 4-way fork entry, except No. 10A142 is 2-way fork entry

Noncollapsible, doorless containers can be stacked securely without crushing contents. Shorter height allows easy access with bulky items.

	Outside Dim.			Inside Dim.			Load		Item
	L	W	H	L	W	H	Capacity	Color	No.
Bulk Containers by Buckhorn									
	42"	29"	28"	39⅜"	26⅜"	22⅞10"	900 lb.	Black	**10A142**
	48"	44"	29"	45⅜"	42"	23⅜"	700 lb.	Black	**10A141**
Bulk Containers by Orbis									
	48"	45"	19⅝6"	44⅝6"	41⅜6"	12⅝⅝64"	2000 lb.	Black	**49H263**
Bulk Container Covers by Buckhorn									
	49" L x 44⅞" W x 2⅞" H							Black	**10A143**
	42½" L x 29¾" W x 3¼" H							Black	**10A144**



No. 20WT13

SNYDER INDUSTRIES, INC.

ASM Insulated Bulk Containers

- 2000-lb. capacity
- Squared interior corners
- Meet FDA standards

Suitable for transporting temperature-sensitive items, these bins feature durable LLDPE construction with polyurethane foam insulation. Ideal for catering, concessions, and vending applications, and can be used for storing or transporting dry ice pellets and blocks. Hinged lids have a rubber latching system.

	Outside Dim.			Volume	Item	
	L	W	H	Cap.	No.	
Removable Lid Containers						
	24"	30"	21"	2.0 cu. ft.	**20PF44**	
	43"	49½"	43½"	30.0 cu. ft.	**20WT16**	
Hinged Lid Containers						
	37"	30"	18"	5.0 cu. ft.	**20WT12**	
	36"	42"	28"	11.0 cu. ft.	**20WT13**	
	39⅞6"	43"	27½"	11.0 cu. ft.	**20WT15**	*
	40"	42"	28"	11.0 cu. ft.	**20WT14**	*

** Includes 6" casters, two locking.*



MACX®
No. J2328



MACX48®
No. J2330



MACX® Vented
No. 39UV18



KitBin®
No. 39UV33

Bin Type	Outside Dim. L	W	H	Inside Dim. L	W	H	Load Cap.	▶CHOOSE: Color	Item No.
Long-Side Runners									
MACX®	48"	40"	31"	45"	36¾"	25¾"	1500 lb.	Blue, Gray, Green, Red, White, Yellow	**J2328**
Short-Side Runners									
MACX®	48"	40"	31"	45"	36¾"	25¾"	1500 lb.	Blue, Gray, Green, Red, White, Yellow	**J2329**
MACX®	48"	40"	46"	45"	36¾"	40¾"	1500 lb.	Blue, Gray	**J2332**
Square Containers									
MACX®48	48"	48"	28"	44¾"	44¾"	24"	1500 lb.	Blue, Gray, White, Yellow	**J2330**
Vented Containers									
MACX®	48"	40"	31"	45"	36¾"	25¾"	1500 lb.	Gray	**39UV18** *
MACX®	48"	40"	31"	45"	36¾"	25¾"	1500 lb.	Gray	**39UV16** †
MACX®48	48"	48"	28"	44¾"	44¾"	24"	1500 lb.	Gray	**39UV21**
Drop Door Containers									
MACX®	48"	40"	31"	45"	36¾"	25¾"	1500 lb.	Gray	**J2333**
Mobile Container									
MACX®	48"	40"	34⅝"	45"	36¾"	25¾"	1500 lb.	Gray	**39UV34**
Container with Removable Walls									
KitBin®	48"	40"	28"	44"	36"	23"	1320 lb.	Gray	**39UV33**

Outside Dim. L	W	H	For Use With	▶CHOOSE: Color	Item No.
Lids					
48"	40"	3"	MACX® Bin	Blue, Gray, Yellow, White	**J2331**
48"	48"	3"	MACX®48 Bin	White	**39UV44**

** Long-side runners. † Short-side runners.*

DECADE PRODUCTS®

MACX®, MACX48® and KitBin® Bulk Bins

- 4-way fork entry

MACX® and MACX48® Bins—High-impact-resistant HDPE structural foam, fixed wall bins are durable and recyclable. Can be stacked up to 10-ft. high on a firm level surface with evenly distributed weight. Compact containers are also temperature-resistant and UV-resistant.

KitBin®—Designed so that all walls can be completely detached from the pallet for easy storage. Include a pallet base and 4 independent sides that fit together to create a strong and durable container. Removable walls also provide easy access for loading and unloading.

MODRoto Noncollapsible Bulk Containers

- 2-way fork entry, except No. H6444 is 4-way fork entry

Bulk containers cube out tractor trailers to maximize cost and logistical efficiencies. Stack when full and nest when empty, with molded nesting lugs to prevent units from jamming together.

Ship Shape—Nos. H6442 and H6443 have 2-way forklift access. No. H6444 has 4-way forklift access. HDPE plastic construction

Flat Bottom USDA/FDA—No-metal design is impervious to corrosion and rust and eliminates the potential to contaminate poultry and other food products. Rugged USDA/FDA approved construction of high density polyethylene (HDPE) is immune to cleaners, salts, water, and other chemicals. Has no internal pockets, dimples, or other bacteria-harboring reservoirs. 4-way forklift access.

Outside Dim. L	W	H	Inside Dim. L	W	H	Load Capacity	▶CHOOSE: Color	Item No.
Ship Shape Bulk Containers								
45"	45"	33"	39"	39"	32"	700 lb.	Blue	**H6442**
45"	45"	44"	39"	39"	43"	800 lb.		**H6443**
47"	47"	40"	42"	42"	39"	1200 lb.	Natural, Blue, Forest Green	**H6444**
Flat Bottom USDA/FDA Bulk Containers								
50"	45"	36"	49"	44"	31"	2000 lb.	Natural	**19ZA16**



No. H6443



No. H6444



No. 19ZA16



Round-Corner Corrugated Steel



Hold 'N Fold® Corrugated Metal



Hold 'N Fold® Wire Mesh



Workingtainer® Steel

STEEL KING BUILT TO DELIVER

Bulk Steel Storage Containers

- 4-way fork entry
- 4000-lb. capacity
- Ample underclearance allows lifting with forklift

Outside Dim. L	W	H	Inside Dim. L	W	H	Gauge	Item No.
Round-Corner Steel							
41½"	33½"	28½"	40"	32"	24"	12	**4TJ25**
49½"	41½"	28½"	48"	40"	24"	12	**4TJ26**
Hold 'N Fold®, Steel							
48"	45"	42"	39"	42"	33½"	14	**2MVU5**
Hold 'N Fold®, Steel Wire Mesh							
48"	45"	42"	45"	42"	33½"	14	**4TJ24**
Workingtainer® Steel							
36"	30"	30½"	34"	28"	24"	14	**4TJ19**
40"	32"	30½"	35"	30"	24"	14	**4TJ20**
44"	36"	30½"	42"	34"	24"	14	**4TJ21**
48"	40"	30½"	46"	38"	24"	14	**4TJ22**

Round-Corner Corrugated Steel—Feature heavy, 11-ga. ribbed steel bottom; 12-ga. ribbed steel sides; heavy, ¼"-thick gusseted stacking legs; and double-thick top edges.
- All-welded construction
- Stackable to 4 units high

Hold 'N Fold®—Units stack securely when empty; no need for banding on return shipments. Half-drop gates on both 48" sides for easy access to contents.
- Fold down 3:1
- Tubular corner columns and base structure
- Stackable to 6 units high

Workingtainer® Steel—Hopper door on narrow side of container is adjustable from fully closed to fully open. Ready for the assembly line; no additional movement of parts needed.
- Adjustable hopper chute ergonomically dispenses small parts
- Tubular corner columns and base structure
- Stackable to 6 units high


No. 30F075


No. 30C447


No. 4TJ27

Flambeau PLANO

Compartment Satchel-Style Cases

Flambeau—Sturdy boxes are rustproof, sparkproof, and resistant to dents and scratches, as well as oils and common chemicals. Gray models have pinned hinges and tongue-and-groove fitted cover

Plano—Satchels are ideal for medium and large tool and fastener kits. Connectable satchel Stowaway® Nos. 30F075 and 36N217 allow for 2 units to be fixed to each other for a double-sided unit.

Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	No. of Removable Dividers	Color	Brand	Item No.
Single Compartment							
15"	14"	2"	1	0	Clear	Flambeau	**30C448**
	14"	3½"	1	0	Clear	Flambeau	**5MU43**
Adjustable							
11"	8½"	2¼"	5 to 17	12	Clear	Plano	**36N217**
11¾"	2½"	15½"	9 to 24	15	Gray	Flambeau	**2W786**
15"	11¼"	2¼"	5 to 22	17	Clear	Plano	**30F075**
	14"	2"	4 to 40	20	Clear	Flambeau	**30C449**
	14"	2"	8 to 48	20	Clear	Flambeau	**30C450**
15¼"	14"	6¼"	1 to 8	7	Clear	Flambeau	**30C451**
15⅜"	11⅞"	4⅞"	12 to 36	10	Beige/Brown	Plano	**19YM97**
18½"	13"	3"	4 to 40	12	Gray	Flambeau	**3KN84**
	13"	3"	8 to 32	24	Gray	Flambeau	**3KN85**
Fixed							
12⅝"	8⅞"	4⅛"	20	0	Beige/Green	Plano	**19YM83**
15"	14"	3½"	6	0	Clear	Flambeau	**30C447**
16⅞"	12"	5"	36	0	Beige/Blue	Plano	**19YM85**
18½"	13"	3"	21	0	Gray	Flambeau	**4TJ27**
	13"	3"	24	0	Gray	Flambeau	**19YZ83**
Deluxe Super Satchel™ Boxes							
17¼"	16¾"	5"	15 to 24	15	Clear	Flambeau	**30C452**
	16¾"	5"	18 to 73	15	Clear	Flambeau	**30C453**
	16¾"	5"	25 to 89	15	Clear	Flambeau	**30C454**


No. 15V207


No. 2HFR6


No. 2W467

Flambeau

DURHAM MFG Est. 1922

WESTWARD

Fixed Compartment Boxes

Fixed Compartment—Translucent material allows quick viewing of contents.

Ultra Clear—High-strength, abrasion-resistant K-resin copolymer protects and stores small items and is see-through for fast selection.

ESD Conductive—Reduces electrical resistance and dissipates static charge buildup to alleviate electrostatic discharge (ESD).

Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	Compart. Dim. W	Compart. Dim. L	Compart. Dim. H	Brand	Item No.
Fixed Compartment Boxes								
4⅝"	2⅝"	1¾₁₆"	4	2¾₁₆"	1⅝₁₆"	1"	Flambeau	**30C413**
	2⅝"	1¾₁₆"	6	1⅜"	1¼"	1"	Flambeau	**30C412**
5⅞"	3½"	1⅝₁₆"	5	1"	2⅞"	1⅛"	Flambeau	**30C405**
7"	3⁷⁄₁₆"	1⅜"	5	1⅝₁₆"	3⅝₁₆"	1¾₁₆"	Flambeau	**30C410**
	3⁷⁄₁₆"	1⅜"	9	1⅝₁₆"	1⅝₁₆"	1¾₁₆"	Flambeau	**30C409**
	3⁷⁄₁₆"	1⅜"	12	1⁷⁄₁₆"	1⅛₁₆"	1¾₁₆"	Flambeau	**30C411**
8¼"	4⅜"	1⅜"	6	1¼"	4"	1¾₁₆"	Flambeau	**30C408**
	4⅜"	1⅜"	12	1⅝₁₆"	1⅝₁₆"	1¾₁₆"	Flambeau	**30C407**
	4⅜"	1⅜"	18	1¼"	1¼"	1¾₁₆"	Flambeau	**30C406**
10¾"	6⁷⁄₁₆"	1¾"	6	1¹¹⁄₁₆"	6¼"	1⅝₁₆"	Flambeau	**30C415**
	6⁷⁄₁₆"	1¾"	12	1¹¹⁄₁₆"	3⅛₁₆"	1⅝₁₆"	Flambeau	**30C414**
	6⁷⁄₁₆"	1¾"	12	1¹¹⁄₁₆"	2"	1⅝₁₆"	Flambeau	**30C417**
	6⁷⁄₁₆"	1¾"	13	10⅜"	2¾"	1⅝₁₆"	Flambeau	**30C420**
	6⁷⁄₁₆"	1¾"	18	1¾"	2⅛₁₆"	1⅝₁₆"	Flambeau	**30C419**
	6⁷⁄₁₆"	2⅛₁₆"	6	1¹¹⁄₁₆"	6¼"	2¼"	Flambeau	**30C416**
11"	7¼"	1¾"	1	10⅜₁₆"	6⅝₁₆"	1⅝₁₆"	Flambeau	**30C431**
13"	8¾"	2⅝₁₆"	6	2⅛₁₆"	8½"	2⅛"	Flambeau	**30C421**
16½"	9¾"	3⅜₁₆"	1	15¼"	8⅞"	3"	Flambeau	**30C443**
13⅛"	9"	2⅝₁₆"	12	2⅛₁₆"	4⅜₁₆"	2⅛₁₆"	Durham Mfg	**15V207**
	9"	2⅝₁₆"	16	3⅛"	9"	2⅝₁₆"	Durham Mfg	**15V208**
	9"	2⅝₁₆"	24	2⅛₁₆"	2⅛₁₆"	2"	Durham Mfg	**15V210**
13½"	10¹¹⁄₃₂"	2⁷⁄₃₂"	9	—	—	—	Westward	**2HFR6**
Ultra Clear Fixed Compartment Boxes								
7¼"	4¼"	1⅝₁₆"	11	7"	4"	1⅛₁₆"	Flambeau	**19YZ96**
	4¼"	1⅝₁₆"	17	7"	4"	1⅛₁₆"	Flambeau	**19YZ95**
10¾"	6⁷⁄₁₆"	1¹³⁄₁₆"	12	1¹¹⁄₁₆"	3⅛₁₆"	1⅝₁₆"	Flambeau	**2W782**
	6⁷⁄₁₆"	1¹³⁄₁₆"	18	2⅛₁₆"	1¾"	1⅝₁₆"	Flambeau	**2W781**
12³⁄₁₆"	6³⁄₁₆"	1¹¹⁄₁₆"	6	11⁵⁄₁₆"	5¹⁵⁄₁₆"	1⅞₁₆"	Flambeau	**19YZ87**
	6³⁄₁₆"	1¹¹⁄₁₆"	24	11⁵⁄₁₆"	5¹⁵⁄₁₆"	1⅞₁₆"	Flambeau	**19YZ97**
13"	8¾"	2¹³⁄₁₆"	6	2⅛₁₆"	8¼"	2⅛"	Flambeau	**2W468**
	8¾"	2¹³⁄₁₆"	12	2⅛₁₆"	4⅜₁₆"	2⅛"	Flambeau	**2W469**
	8¾"	2¹³⁄₁₆"	24	2⅛₁₆"	2⅛₁₆"	2⅛"	Flambeau	**2W467**
ESD Storage Boxes								
10¾"	6⁷⁄₁₆"	1¹³⁄₁₆"	1	10½"	6³⁄₁₆"	1⅝₁₆"	Flambeau	**19YZ93**
13"	8¾"	2⅜"	1	12¾"	8½"	2⅛"	Flambeau	**19ZA02**
ESD Compartment Boxes								
10¾"	6⁷⁄₁₆"	1¹³⁄₁₆"	18	2⅛₁₆"	1¾"	1⅝₁₆"	Flambeau	**19ZA01**
13"	8¾"	2⅜"	24	2¼"	2¼"	2⅛"	Flambeau	**19YZ94**


No. 2HFR4


No. 2HFR2


No. 1NTH3


No. 30F072

Flambeau WESTWARD PLANO

Adjustable Compartment Boxes

- Translucent lid allows quick view of contents

Flambeau—See-through boxes feature a detachable lid and movable dividers. Ribbed IDS models provide flexibility to move each divider 1⁄16". EcoFriendly units are 100% recyclable. ZeRust® units are polypropylene, creating a nontoxic, odorless, maintenance-free vapor shield.

Westward—Portable boxes keep small parts and fasteners organized and easily accessible.

Plano—Pro-Latch™ StowAway® utility boxes include the exclusive Pro-Latch™ locking system that keeps contents secure even if the box is dropped.

Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	No. of Removable Dividers	Color	Latch	Brand	Item No.
4⅝"	3⅜"	1⅝₁₆"	4 to 6	2	Translucent	Single, Clear	Flambeau	**30C427**
7"	4⅛"	1½"	3 to 18	15	Translucent	Double, Clear	Flambeau	**5MU37**
9"	5"	1⅜"	3 to 18	15	Clear	Double, Clear	Westward	**2HFR3**
11½"	7⅜"	1²¹⁄₃₂"	6 to 18	12	Clear	Double, Clear	Westward	**2HFR4**
15"	9³⁄₃₂"	1⅞"	4 to 24	20	Clear	Double, Clear	Westward	**2HFR5**
	11⁷⁄₃₂"	3½"	11 to 46	10	Black	Double, Yellow	Westward	**2HFR2**
	14"	3½"	6 to 18	12	Translucent	Double, Black	Flambeau	**5MU44**
15⅓"	12"	2⁷⁄₁₆"	5 to 20	15	Black	—	Westward	**2HFR7**
16½"	9¾"	3⅜₁₆"	6 to 9	20	Translucent	Double, Clear	Flambeau	**30C444**
	9¾"	3¼"	7 to 16	9	Translucent	Double, Clear	Flambeau	**5MU42**
20"	12¹³⁄₁₆"	2½"	5 to 22	17	Black	Double, Clear	Westward	**2HFR8**
Ribbed (IDS) Infinite Divider System								
7"	4⅛"	1½"	3	6	Translucent	Double, Clear	Flambeau	**3KN90**
11"	6¾"	1¾"	6	10	Translucent	Double, Clear	Flambeau	**3KN91**
13½"	9⅝"	2"	4	16	Translucent	Double, Clear	Flambeau	**3KN88**

Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	No. of Removable Dividers	Color	Latch	Brand	Item No.
EcoFriendly								
7"	4⅛"	1½"	3 to 18	16	Translucent	Double, Clear	Flambeau	**30C429**
11"	7¼"	1¾"	4 to 24	12	Translucent	—	Flambeau	**30C436**
14¼"	9⅛"	1¹⁵⁄₁₆"	4 to 48	20	Translucent	Double,Black	Flambeau	**30C441**
Zerust® Rust Prohibitor (Blue Dividers)								
4⅝"	3⅜"	1¼"	4 to 6	2	Translucent	Single, Clear	Flambeau	**1NTH2**
5"	9¾"	1½"	3 to 18	15	Translucent	Double, Clear	Flambeau	**1NTH4**
7"	4⅛"	1½"	3 to 18	15	Translucent	Double, Clear	Flambeau	**1NTH3**
7¼"	10⅞"	1¾"	4 to 24	10	Translucent	Double, Blue	Flambeau	**1NTH5**
9"	14⅛"	2"	4 to 35	15	Translucent	Double, Blue	Flambeau	**1NTH6**
16½"	9"	1½"	4 to 24	16	Translucent	Double, Clear	Flambeau	**1NTH7**
Tarnish Inhibitor (Silver Dividers)								
11"	7¼"	1¾"	4 to 24	12	Translucent	Double, Silver	Flambeau	**30C434**
14¼"	9⅛"	1¹⁵⁄₁₆"	35	18	Translucent	Double, Silver	Flambeau	**30C439**
Pro-Latch™ Stowaway®								
11"	7¼"	1¾"	5 to 20	15	Clear	ProLatch	Plano	**19YM86**
14"	9"	2"	3 to 28	25	Clear	ProLatch	Plano	**30F072**


No. 31TT92


No. 31TT94


No. 3AJ37


No. 3AJ39

DURHAM MFG Est. 1922 ★WESTWARD AKRO-MILS®

Parts Cabinets

- Wall-mountable or stackable

Steel Frame units have a durable gray powder-coat finish, interlocking design drawers, and full-width handles. High-impact polystyrene plastic frame cabinets features strong see-through drawers and removable dividers. Nos. 31TT93 to 31TT95 include a nonslip pad.

No. of Drawers	Overall Dim. D	Overall Dim. W	Overall Dim. H	Drawer Dim. D	Drawer Dim. W	Drawer Dim. H	Brand	Item No.
Steel Frame								
20	6¼"	16¾"	11¼"	5½"	2 13/16"	1⅞"	Durham Mfg	**31TT92**
Plastic Frame								
13	7"	17¾"	9¾"	6¼"	(10) 3½", (3) 8¾"	(12) 1½", (1) 3 5/16"	Westward	**31TT94**
14	7"	17¾"	9¾"	6¼"	(10) 3½", (4) 8¾"	(13) 1½", (1) 3 5/16"	Westward	**31TT95**
16	6¼"	10½"	8½"	2¼"	6"	1⅝"	Akro-Mils	**9NT07**
20	6"	14¾"	7¼"	5¾"	2½"	1½"	Westward	**31TT93**
24	6¼"	20"	15¾"	6"	4½"	2"	Akro-Mils	**9AGY9**
26	6¼"	20"	10¼"	5¼"	(20) 2⅛", (6) 4⅜"	(20) 1½", (6) 2"	Akro-Mils	**3AJ37**
44	6¼"	20"	15¾"	5¼"	(32) 2¼", (12) 4½"	(32) 1½", (12) 2"	Akro-Mils	**8TTD7**
64	6¼"	20"	15¾"	5¼"	2⅛"	1½"	Akro-Mils	**3AJ39**
Dividers								
For use with No. 31TT93, Pkg. of 10				—	—	—	Westward	**31TT96**
For use with No. 31TT94, 31TT95, Pkg. of 10				—	—	—	Westward	**31TT97**

Removable Bin Cup Compartment Boxes

★WESTWARD STANLEY

Westward®—Feature durable polypropylene construction with translucent lid and molded-on handles.

STANLEY®—Feature clear, impact-resistant lid and built-in wide handle. FATMAX® Nos. 13U670 and 13U671 feature a water seal. Wide side latches allow secure stacking. Compartments are removable to accommodate larger items.


No. 2HFR9


No. 13U670

Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	No. of Removable Dividers	Item No.
Westward®					
13⅜"	8⅜"	2 7/16"	1	15	**2HFR9**
16½"	13 5/32"	4½"	8	19	**2HFT2**
	13 3/16"	2 7/16"	19	8	**2HFT1**
Stanley®					
16½"	13¼"	2⅛"	25	0	**3FRC4**
Stanley® FATMAX®					
17⅜"	14"	2⅞"	1	10	**13U671**
	14"	4½"	1	10	**13U670**
Stanley® Sortmaster™					
11⅝"	8⅜"	2⅞"	10	8	**19YU42**
14⅝"	11⅜"	2¾"	14	8	**13U672**
17⅜"	13"	3½"	14	8	**39AL10**


No. 3KN86


No. 4TJ28


No. 19YZ99


No. 30F061

PLANO Flambeau

Small Parts Storage Systems

No. 3KN86 building box portable storage system features a large yellow toolbox top made from chemically resistant polypropylene, no-spill latches, and a sturdy built-in handle. Includes 2 No. 3KN88 removable compartment boxes with built-in handles and 16 adjustable dividers. Trays are black; boxes are transparent.

Description	Outside Dim. W	Outside Dim. L	Outside Dim. H	No. of Compart.	No. of Removable Dividers	Color	Brand	Item No.
Storage Systems								
Building Box Portable Storage System	18½"	12½"	11¾"	3	16	Yellow	Flambeau	**3KN86**
Small Parts Cabinets								
Small Parts Cabinet	15¼"	14¾"	16"	5	0	Black/Clear	Flambeau	**4TJ28**
Small Parts Cabinet	15¼"	14¾"	16"	4	16	Black/Clear	Flambeau	**19YZ99** *
Small Parts Cabinet	16"	12"	10"	5	60	Red	Plano	**30F061**

** Features black handles on front of bins.*



No. G5377

plasticase NANUK™ PROFESSIONAL PROTECTIVE CASES

Equipment Protection Cases

- See Grainger.com® for adjustable padded divider cases and replacement foam

Crushproof, lightweight, and watertight cases feature PowerClaw latching system, impact-resistant resin, cubed foam inserts, O-ring seal, automatic pressure equalizer, fold-down soft grip handle, and stainless steel hardware.

Inside Dim. L	W	D	▶CHOOSE: Color	Item No.
Equipment Case Only, No Foam				
7 3/8"	4 7/8"	3 1/8"	Black, Orange, Yellow	H7663
8 3/8"	6"	3 3/4"		H7664
13 1/4"	9 1/4"	4 1/8"		J4861
13 7/8"	9 3/8"	6 1/4"		G5370
15"	10 1/2"	6 1/4"		G5373
17"	11 7/8"	6 3/8"		G5376
18"	13"	6 7/8"		G5379
20"	14"	8"		G5382
22"	17"	8 1/4"		G5385
Includes Case with a Convoluted Foam Pad and a Pre-Scored Foam Layer				
7 3/8"	4 7/8"	3 1/8"	Black, Orange, Yellow	H7667
8 3/8"	6"	3 3/4"		H7668
9 3/8"	7 3/8"	5 1/2"		G5368
13 1/8"	9 1/8"	4 1/8"		J4860
13 7/8"	9 3/8"	6 1/8"		G5371
15"	10 1/2"	6 1/8"		G5374
17"	11 7/8"	6 3/8"		G5377
20"	14"	8"		G5383
22"	17"	8 1/8"		G5386
Wheeled Case with a Convoluted Foam Pad and a Pre-Scored Foam Layer				
20 1/2"	11 3/8"	7 1/2"	Black, Orange, Yellow	H7670
20 1/2"	15 3/8"	10 1/8"		H7671
22"	17"	12 7/8"		H7672



No. 29PH25



No. 1NTK4



No. 14C636



No. 45MY67

WESTWARD PLANO

J. Terence Thompson STANLEY

Storage Trunks and Jobsite Boxes

Outside Dim. L	W	H	Color	Brand	Item No.
Storage Trunks					
14 1/4"	19"	16 3/4"	Gray	Westward	29PH25
14 1/4"	30"	12 3/4"	Black	Plano Molding	30F068
15 3/4"	32 1/2"	13 3/4"	Black	J Terence Thompson	1NTK4
16 1/4"	21 1/2"	18 1/2"	Gray	Westward	29PH26
18"	24"	20 1/2"	Gray	Westward	29PH27
24"	15"	13"	Black	Plano Molding	30F067
Storage Trunks with All-Terrain Wheels					
	14"	16"	Black	STANLEY	14C632
19"	30"	19"	Black	STANLEY	14C636
37"	17 1/2"	14"	Black	J Terence Thompson	1NTK5
37 3/4"	18 1/4"	14"	Black	Plano Molding	45MY67



No. 1NTG6



No. 1NTK2



No. 36N199

Flambeau PLANO

Equipment Protection Cases

FLAMBEAU

Infinity™ Carrying Cases— Impervious to most chemicals, oil, and gasoline. Feature natural dust seal, interior impact-barrier walls, and dual latch system for adding a padlock (not included). Include foam.

Defender® Carrying/Shipping Cases—Stackable cases are chemical- and water-resistant. Interior rubber gasket seal makes cases virtually airtight. Purge valve equalizes interior pressure. Include foam, 4 latches, and padlock holes (padlock not included).

PLANO®

Protective Equipment Cases—Sturdy construction with molded handles, heavy-duty latches, and padlock tabs for excellent storage and protection.

All-Weather™—Industrial strength construction with a continuous Dri-Loc® Seal protects contents from damage and the elements. Withstand airline travel with heavy-duty, dual-stage lockable latches and a built-in pressure valve.

Inside Dim. L	W	D	Color	Brand	Item No.
Infinity™ Protective Cases					
11 1/2 in	8 1/2 in	3 3/16 in	Black	Flambeau	1NTH1
14 3/8 in	10 in	3 7/16 in	Black	Flambeau	1NTG6
	10 in	5 9/16 in	Black	Flambeau	1NTG9
17 3/4 in	12 5/8 in	4 1/16 in	Black	Flambeau	1NTG7
	12 5/8 in	7 1/2 in	Black	Flambeau	1NTG8
Defender® Protective Cases					
15 1/2 in	10 1/4 in	6 in	Black	Flambeau	1NTJ9
19 1/2 in	15 in	7 3/4 in	Black	Flambeau	1NTK1
22 3/4 in	17 3/4 in	8 in	Black	Flambeau	1NTK2
Protective Cases					
13 in	9 1/2 in	2 1/2 in	Black	Plano	30F063
16 1/4 in	11 3/8 in	5 3/4 in	Black	Plano	30F066
16 1/2 in	14 1/4 in	5 1/4 in	Black	Plano	30F064
All Weather™					
17 in	12 in	7 1/4 in	Black	Plano	36N199
18 3/4 in	14 1/4 in	8 1/4 in	Black	Plano	30F062



No. 2YU14

Rubbermaid Commercial Products

ActionPacker® Storage with Lids

- Polypropylene construction
- Black with gray lid

Lockable red latches keep contents secure and dry. Stackable. Molded-in hand grips.

Volume Capacity	Outside Dim. L	W	D	Item No.
3.20 cu. ft.	26 1/4"	16 15/16"	18 5/8"	2YU13
4.67 cu. ft.	34 1/2"	16 3/8"	18 1/2"	2YU14
6.41 cu. ft.	43 3/4"	17 1/8"	20 1/2"	2YU15



No. 19YZ91

Flambeau

Conductive Parts Cabinets

Conductive storage cabinets reduce electrical resistance and dissipate static-charge buildup to alleviate electrostatic discharge (ESD).

No. of Drawers	Overall Dim. D	W	H	Drawer Dim. D	W	H	Item No.
Drawer Bin Cabinets							
20	6¼"	12"	11¼"	5¼"	2"	1⅜"	**19YZ91**
26	6¼"	12"	16½"	5¼"	2"	1⅜"	**19YZ92**
30	6¼"	12"	11¼"	5¼"	2"	1⅜"	**19YZ89**
45	6¼"	12"	16½"	5¼"	2"	1⅜"	**19YZ90**

Description	Item No.	Pkg. Qty.
ESD Bin Dividers		
For use with ESD Storage Cabinets	**19YZ86**	25

AKRO-MILS®

Steel Storage Cabinets and Revolving Rack

- Gray, powder-coated finish

Steel Frame Storage Cabinets—Welded-steel-frame cabinets feature extra-deep strong-impact industrial-grade plastic drawers. Transparent windows and label holder allow instant content identification. Cabinets can be securely stacked. Each drawer includes 2 dividers and 1 label.

Revolving Storage Rack Only—Steel base rotates 360° in less than 3 sq.-ft. of floor space and allows easy access to 20 storage cabinets (sold separately) and up to 560 drawers. Assembly required. Includes hardware.

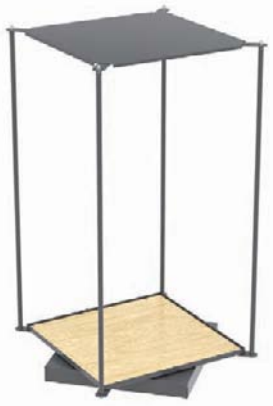
No. of Drawers	Overall Dim. D	W	H	Drawer Dim. D	W	H	▶CHOOSE: Drawer Color	Item No.
Steel Frame Storage Cabinets								
9	11"	17"	11"	10½"	5⅜16"	3⅛16"	Blue, Black, Gray	**G2393**
15	11"	17"	11"	10½"	3⅜16"	3⅛16"		**G2392**
16	11"	17"	11"	10½"	4"	2⅛"		**G2391**
20	11"	17"	11"	10½"	3⅜16"	2⅛16"		**G2390**
28	11"	17"	11"	10½"	2⅜16"	2⅛16"		**G2389**

Load Cap.*	Overall Dim. L	W	H	Item No.
Revolving Storage Rack				
1000 lb.	31"	31"	60"	**5LA31**

** Based on evenly distributed loads.*



9-Drawer Bin Cabinet
No. G2393



Revolving Storage Rack Only (Cabinets Sold Separately)

Sliding Drawer Parts Cabinets

DURHAM MFG® Est. 1922

- Gray powder-coated finish
- Prime cold rolled steel
- Small and large cabinets hold 40 lb. per drawer
- Large heavy-duty bearing slide models hold 75 lb. per drawer

4-Drawer Cabinets—4 steel drawers, each with a hinged steel top, steel pull handle, closure latch, and molded polypropylene tray. Each compartment has a scooped bottom for easy access. Drawers ride on sliding full-suspension slides fixed within the cabinet and can be easily removed.

Cabinets Only—Drawer stops prevent unintentional pull-out. Cabinets are available empty allowing users to chose any drawer configuration. Cabinets can be stacked and bolted together, or bolted to a rigid surface, such as optional base, for added stability. Steel parts are rust and acid resistant.

Extra Drawers—Models with adjustable compartments include plastic dividers that can be removed or rearranged.

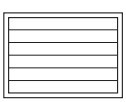


4-Drawer Cabinet

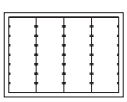
Base

Extra Drawer
No. 6A274

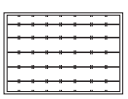
Compartment Arrangements



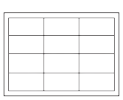
6 Horizontal Compartments



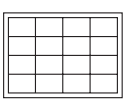
9 Vertically Adjustable Compartments



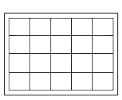
12 Horizontally Adjustable Compartments



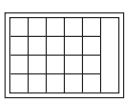
12 Compartments



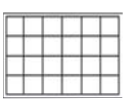
16 Compartments



20 Compartments



21 Compartments



24 Compartments

Cabinet Dim. D	W	H	Compart. per Drawer	Item No.
4-Drawer Cabinets				
Small				
11¾"	15¼"	11¼"	12	**5W880**
			16	**5W881**
			20	**5W882**
			24	**2W431**
			16, 20, 21, 24	**5W883**
Large				
15¾"	20"	15"	12	**4HY18**
			16	**4HY23**
			16, 20, 21, 24	**4HY17**
			24	**2W430**
			32	**5W884**
			4 to 13	**5W885**
Large Heavy Duty				
15¾"	20¼"	14¾"	12	**6RHH2**
			16	**6RHH3**
			24	**6RHH5**
			16, 20, 21, 24	**6RHH6**

Cabinet Dim. D	W	H	No. of Drawers	Item No.
Cabinets Only—Drawers Not Included				
Small				
11¾"	15¼"	6¼"	2	**5LE85**
11¾"	15¼"	11¼"	4	**4UJ36**
15¼"	11¾"	16¾"	0	**1XHL7**
Large				
12½"	20"	15"	4	**1XHL6**
15¾"	20"	8"	2	**5LE86**
15¾"	20"	15"	4	**4UJ35**
Large Heavy Duty				
12½"	20¼"	8"	2	**49H248**
12½"	20½"	21"	5	**49H249**
15¾"	20¼"	14¾"	4	**6RHH7**
16"	20¼"	21¾"	6	**49H250**

Description	Cabinet Dim. D	W	H	Item No.
Accessories				
Locking Hinge	—	—	—	**1XHL9**
Optional Base For Slide Rack	16¼"	20⅝"	15⅝"	**4HY15**
Optional Cabinet Base	12⅝"	20⅝"	16⅜"	**4NDW9**
Optional Base For Slide Rack	12⅛"	15½"	15⅛"	**4HY13**

Compartments per Drawer	Item No.
Extra Drawers	
For Small Cabinets	
8 (Fixed)	**1XHL8**
12 (Fixed)	**6A272**
16 (Fixed)	**6A273**
20 (Fixed)	**6A274**
21 (Fixed)	**5LE84**
24 (Fixed)	**4HY22**
(4 to 13) Vertically Adjustable	**3KP98**
For Large Cabinets	
6 (Fixed)	**4HY19**
6 (Fixed)	**4HY20**
12 (Fixed)	**3KR03**
16 (Fixed)	**3KR04**
20 (Fixed)	**3KR05**
21 (Fixed)	**3KR06**
24 (Fixed)	**1A793**
32 (Fixed)	**6A276**
(12 to 18) Horizontally Adjustable	**4HY21**
(4 to 13) Vertically Adjustable	**6A277**



36-Drawer Unit
No. 7E323

Component Parts Storage Units and Drawers

GRAINGER APPROVED

- Hanglock feature on drawers prevents contents from spilling
- Gray powder-coated finish

COMPONENT PARTS STORAGE UNITS

- 14-ga. steel posts
- 750-lb. shelf capacity, based on evenly distributed loads

Freestanding units can be arranged for customized small-part management solutions. Include drawers with 2 adjustable dividers per drawer. Shelves adjust in 1" increments.

DRAWERS FOR SHELVING AND STORAGE UNITS

- Sturdy 22-ga. welded steel
- Drawers can be easily removed from shelves
- 2 adjustable dividers per drawer are included

Label holders on drawer front and on each galvanized metal divider. Drawers are slotted in 1" increments to secure dividers.

Total No. of Bins	Overall Dim. D	W	H	Drawer Dim. D	W	H	Item No.
Enclosed Bin Shelvings							
12	18"	36"	85"	17 9⁄16"	5 9⁄16"	4 5⁄8"	**7E332**
25	12"	36"	85"	11 5⁄8"	5 9⁄16"	4 5⁄8"	**7E331**
36	12"	36"	85"	11 5⁄8"	(12) 8 1⁄4", (24) 11 1⁄4"	4 5⁄8"	**7E329**
	12"	36"	85"	11 7⁄8"	5 9⁄16"	4 5⁄8"	**7E323**
	18"	36"	85"	17 9⁄16"	(12) 8 1⁄4", (24) 11 1⁄4"	4 5⁄8"	**7E330**
	18"	36"	85"	17 9⁄16"	5 9⁄16"	4 5⁄8"	**7E324**
48	12"	36"	85"	11 7⁄8"	8 1⁄4"	4 5⁄8"	**7E327**
	18"	36"	85"	17 9⁄16"	8 1⁄4"	4 5⁄8"	**7E328**
84	12"	36"	85"	11 7⁄8"	5 9⁄16"	4 5⁄8"	**7E325**
	18"	36"	85"	17 9⁄16"	5 9⁄16"	4 5⁄8"	**7E326**

L	Outside Dim. W	H	Item No.	Ship Pkg. Qty.*
Drawer Bins for Shelving and Storage Units				
11"	5 1⁄2"	4 9⁄16"	**1VL72**	12
11"	8 1⁄4"	4 9⁄16"	**1VL74**	12
11"	11 1⁄8"	4 9⁄16"	**1VL70**	8
17"	5 1⁄2"	4 9⁄16"	**1VL73**	12
17"	8 1⁄4"	4 9⁄16"	**1VL75**	1
17"	11 1⁄8"	4 9⁄16"	**1VL71**	8

** Priced each, shipped in pkg. qty. only.*



Pigeonhole Adjustable Bin
No. 5W886



Drawer Cabinet
No. 3KP88

Pigeonhole Bin
No. 3W126

12" Depth Base
No. 4HU92

Modular Drawer Cabinets and Pigeonhole Bins

DURHAM MFG Est. 1922

- Prime cold-rolled steel, fully-welded construction
- Gray powder-coated finish
- Shipped fully assembled and ready to use

Cabinets and bins of the same width and depth can be stacked for increased storage capacity.

Drawer Cabinets—Drawers have slotted sides in 1" intervals for use with dividers. 2 movable plastic dividers per drawer are included. Vertical supports add strength and rigidity. Stop feature at rear of drawers prevents accidental spilling. Steel drawers have formed steel runners for smooth operation. Extra drawer dividers are available.

Pigeonhole Bins—8½"-deep units feature a hemmed lip to keep parts from spilling out; no sharp edges. Slope bin front on 12"-deep units allows for easier removal of parts.

Pigeonhole Adjustable Bin—5 removable vertical dividers enable the creation of multiple width openings in 3¾" increments. Bin has keyhole slots for wall mounting.

Item	D	W	Item No.
Cabinet/Bin Bases, 5¾"H			
Base for 8½" Pigeonhole Bins	9"	34"	**1XHL5**
Base For 17" Drawer Cabinets	17½"	34⅛"	**4HU91**
Base For 11-12" Drawer Cabinets	12¼"	34⅛"	**4HU92**
Bin Topper	12"	33¾"	**49H251**

No. of Bins	Overall Dim. D	W	H	Bin Dim. D	W	H	Item No.
Pigeonhole Bins (Base Sold Separately)							
4	12"	33¾"	23⅞"	11⅞"	16¾"	11⅞"	**1ANU4**
8	8½"	33¾"	19¼"	8½"	8"	9"	**6RHH0**
	12"	33¾"	23⅞"	12"	8¼"	10"	**6ALJ3**
10	12"	33¾"	42"	12"	16¼"	7¼"	**6ALJ4**
12	12"	33¾"	23⅞"	11⅞"	7 11⁄16"	6⅛"	**4HU93**
16	12"	33¾"	11½"	11⅞"	4"	5⅛"	**5LE88**
18	12"	33¾"	19¼"	11⅞"	5⅜"	6⅜"	**1XHK8**
20	8½"	33¾"	22¼"	8½"	8"	4½"	**6RHH1**
	12"	33¾"	42"	11⅞"	8"	8½"	**1XHK7**
24	12"	33¾"	23⅞"	11⅞"	5 5⁄16"	4 5⁄16"	**3KP89**
32	8½"	33¾"	19¼"	8⅜"	4"	4½"	**1XHL1**
	12"	33¾"	19¼"	11⅞"	3 13⁄16"	3 13⁄16"	**5LE87**
	12"	33¾"	64½"	12"	7 13⁄16"	6⅝"	**15V212**
36	12"	17⅞"	42"	11⅞"	3 13⁄16"	3⅛"	**1XHK9**
40	8½"	33¾"	22¼"	8⅜"	3-3⁄16", 3-13⁄16"	4", 2⅞"	**1XHL3**
	12"	33¾"	23⅞"	11⅞"	3 13⁄16"	3 13⁄16"	**3W126**
42	12"	33¾"	42"	11⅞"	5 3⁄16"	4 5⁄16"	**3KP92**
44	12"	33¾"	42"	12"	(40) 4", (4) 16¼"	(40) 4½", (4) 7"	**6ALJ5**
48	12"	33¾"	42"	12"	(40) 4", (8) 8"	(40) 4½", (8) 7¾"	**6ALJ6**
56	12"	33¾"	42"	11⅞"	4⅞"	5⅛"	**3KP93**
60	12"	33¾"	64½"	12"	(20) 7 13⁄16", (40) 3 13⁄16"	(20) 6⅞", (40) 3 13⁄16"	**15V213**
72	8½"	33¾"	42"	8⅜"	4"	4½"	**1XHL4**
	12"	33¾"	42"	11⅞"	3 13⁄16"	3⅜"	**3W127**
84	12"	33¾"	64½"	12"	(4) 16¼", (80) 4"	(4) 11⅞", (80) 4½"	**15V214**
104	12"	33¾"	64½"	11⅞"	4⅜"	4⅜"	**15V215**
112	12"	33¾"	64½"	12"	3 13⁄16"	3⅜"	**15V216**
Pigeonhole Adjustable Bin							
36	4¾"	23¾"	23¾"	4¾"	3¾"	3¾"	**5W886**

No. of Drawers or Bins	Overall Dim. D	W	H	Drawer Dim. D	W	H	Item No.
Drawer Cabinets (Base Included)							
30	12¼"	34"	26¼"	11¼"	4⅞"	3½"	**3HFK1**
	17¼"	34"	26¼"	17¾"	4⅞"	3½"	**3HFK2**
48	12¼"	34¼"	33¾"	11¼"	4⅞"	2¾"	**4HY11**
60	12¼"	34"	48"	11¼"	5⅜"	3½"	**3HFK3**
	17¾"	34"	48"	17"	5⅜"	3½"	**3HFK4**
72	12¼"	34"	48"	11¼"	5⅜"	2¾"	**4HU99**
90	12¼"	34"	68⅜"	11¼"	5⅜"	3½"	**3HFK5**
	17¾"	34"	68⅜"	17"	5⅜"	3½"	**3HFK6**
96	12¼"	34"	62½"	11¼"	5⅜"	2¾"	**3KP96**
Drawer Cabinets (Base Sold Separately)							
6	11½"	11¾"	10¾"	11¼"	5⅜"	2¾"	**1XHJ6**
	11½"	33¾"	4"	11¼"	5⅜"	2¾"	**3KP94**
8	11½"	22¾"	7¼"	11¼"	5⅜"	2¾"	**1XHJ7**
9	11½"	17¼"	10¾"	11¼"	4⅞"	2¾"	**3KP97**
12	11½"	33¾"	7¼"	11¼"	5⅜"	2¾"	**1XHJ9**
18	11½"	17¼"	21¼"	11¼"	4⅞"	2¾"	**1XHJ8**
	11½"	33¾"	10¾"	11¼"	4⅞"	2¾"	**3KP88**
	11¾"	33¾"	12¾"	11¼"	4⅞"	3½"	**2W265**
	17¼"	33¾"	12¾"	17"	4⅞"	3½"	**2W267**
24	11½"	33¾"	14¼"	11¼"	4⅞"	2¾"	**3KP90**
	11¾"	33¾"	17"	11¼"	4⅞"	3½"	**2W266**
	17¼"	33¾"	17"	17"	4⅞"	3½"	**2W268**
30	11½"	33¾"	17¾"	11¼"	4⅞"	2¾"	**1XHK1**
	11¾"	33¾"	21"	11¼"	4⅞"	3½"	**2W787**
	17¼"	33¾"	21"	17"	4⅞"	3½"	**3W400**



Utility Cabinet, Four Section
No. 1ANU5



Can Caddy
No. 5LE89

DURHAM MFG Est. 1922

Aerosol Utility and Storage Cabinets

- All-steel construction
- Gray powder-coated finish

Units can stand alone. Nos. 3KR01 and 3KR02 feature lock attachment (padlock not included) and can be wall mounted. No. 3KP99 is divided into 4 sections and includes a lock and 2 keys. Bench top model No. 49H243 has a locking door and 2 keys.

Description	Overall Dim. D	W	H	No. of Cabinet Shelves	Item No.
Wall Cabinet, Flush Door	12¾"	13¾"	30"	2	3KR01
Wall Cabinet, Flush Door	14¼"	19¾"	32¾"	2	3KR02
Storage Cabinet, Flush Door	8½"	33¾"	22¼"	1	3KP99
Storage Cabinet, Four Section	12"	33¾"	23¾"	1	1ANU5
Storage Cabinet, Bench Top	15¾"	20¼"	21¾"	1	49H243
Can Caddy, 6 Openings	—	—	—	—	5LE89



Keystock Rack
No. 3HFK7

Threaded Rod Rack
No. 3KP91



DURHAM MFG Est. 1922

Specialty Storage Units

- All-steel construction
- Gray powder-coated finish, except Nos. 4HU95 and 4HU94 are black.

ROD WIRE RACKS

Removable, plated-steel rods store and dispense spools of wire. Easy-to-assemble units can be counter-, wall-, or vehicle-mounted. Racks accommodate spools up to 10" dia.

LOOP HOSE CLAMP RACKS

Heavy-gauge wire construction for durability. Place on countertops or wall mount. Included sign panel lists clamp diameters.

5-Loop—Accommodates clamps from 2$\frac{1}{16}$" to 5".

10-Loop—Designed to hold clamps ranging in size from the smallest mini-clamp up to 2¾".

WIRE AND TERMINAL STORAGE CABINET

Accommodates 24 3½" spools. Features 16 grommets to guide wires and a compartment box with 21 compartments for storing smaller components.

HYDRAULIC HOSE CABINETS

Heavy-duty all steel construction with a gray powder-coated finish. No. 49H244 is a single hose rack, No. 49H245 is a hose rack with 1 divider, No. 49H246 is a hose rack with 2 dividers.

Description	Overall Dim.	Item No.
Keystock Rack, ¾" Square w/10 Openings	6¼"D x 12¼"W x 12"H	3HFK7
Threaded Rod, w/18 2$\frac{1}{16}$" dia. Openings	6⅞"D x 24⅛"W x 24"H	3KP91
Rod Storage Rack, (6) Compartments	18½"D x 16⅛"W x 8⅛"H	3HFK8
Rod Wire Rack (2 Rods)	6"D x 26⅛"W x 21½"H	4HU97
Rod Wire Rack (4 Rods)	5⅞"D x 26⅛"W x 36½"H	5W887
Loop Hose Clamp Rack (5)	5⅜"D x 23¼"W x 16⅛"H	4HU95
Loop Hose Clamp Rack (10)		4HU94
Wire Spool Storage Cabinet	11⅞"D x 15³⁄₁₆"W x 16½"H	49H247
Hydraulic Hose Storage Cabinet	24¼"D x 8½"W x 34¾"H	49H244
	24¼"D x 13¾"W x 24"H	49H245
	24¼"D x 21½"W x 24"H	49H246

DURHAM MFG Est. 1922

Rotobin™ Revolving Storage Bins

- More accessibility and visibility than standard shelving
- Shelves rotate independently, even when fully loaded
- Save up to 40% more floor space vs. linear storage
- Gray powder-coated finish
- Easily assembled

FLAT-BOTTOM SHELVES

Shelf compartments can be further divided on 1" centers using dividers that must be ordered separately.

SCOOP-BOTTOM SHELVES

Compartment shape makes it easier to remove bulk parts.

ACCESSORIES FOR REVOLVING STORAGE BINS

Dividers—Bolt in place on 1" centers.

Pans—Removable polypropylene organizers.



28" Flat Bottom Shelves
No. 1XHK5

Shelf Dia.	Overall Height	No. of Shelves	Permanent Bins/Shelf	Load Cap. per Shelf*	Compartment Dim. W	D	H	Item No.
Flat-Bottom Shelves								
17"	17⅜"	4	4	60 lb.	13"	7½"	3⅜"	1XHK2
	25⅜"	6	4	60 lb.	13"	7½"	3⅜"	1XHK3
	41⅜"	10	4	60 lb.	13"	7½"	3⅜"	1XHK4
28"	40⅜"	6	6	500 lb.	14½"	12"	5¾"	9GH68
	46⅝"	6	6	500 lb.	14½"	12"	5¾"	8DR05
	52⅛"	8	6	500 lb.	14½"	12"	5¾"	8DR07
	59⅛"	9	6	500 lb.	14½"	12"	5¾"	1XHK5
	65½"	10	6	500 lb.	14½"	12"	5¾"	8DRZ1
34"	42"	5	5	500 lb.	21"	15"	7"	9T541
	49¾"	6	5	500 lb.	21"	15"	7"	9DXA0
	65½"	8	5	500 lb.	21"	15"	7"	8TTW2
	65¾"	6	5	500 lb.	21"	15"	7"	1XHK6
Scoop-Bottom Shelves								
44"	46½"	4	5	625 lb.	—	—	—	8TJA3
	57½"	5	5	625 lb.	26½"	19½"	9¾"	4TJ66
	57½"	5	10	500 lb.	14"	19½"	9¾"	4TJ67
	69½"	6	5	625 lb.	26½"	19½"	9¾"	4TJ65
58"	66⁵⁄₁₆"	5	10	2000 lb.	18"	25"	11"	4TJ72
Extra Flat-Bottom Shelves, For Use w/6-Shelf Units								
28"	6"	—	6	500 lb.	14"	12"	6"	3W242
34"	7"	—	5	500 lb.	21"	15"	7"	3W240

Item	Item No.
Accessories for 28" dia. Shelf Bins	
Rotary Bin Divider	494L01
Accessories for 34" dia. Shelf Bins	
Rotary Bin Divider	494K99
Rotary Bin Pan	1TFR7

** Based on evenly distributed loads.*

edsal

Hallowell

Steel Bin Units

- Edsal® models 750-lb. shelf capacity, Hallowell® models 800-lb. shelf capacity, based on evenly distributed loads
- Gray powder-coated finish



No. 7E319



No. 35KU26

No. of Bins	Overall Dim. D	W	H	Bin Dim. D	W	H	Item No.
Edsal®							
15	12"	36"	85"	12"	(9) 12", (6) 12"	(9) 18", (6) 15"	7E315
	18"	36"	85"	18"			7E316
21	12"	36"	85"	12"	(21) 12"	(21) 12"	7E317
	18"	36"	85"	18"			7E318
36	12"	36"	85"	12"	(2) 7½", (2) 10½", (16) 7½", (2) 10½"	(2) 12", (2) 12", (16) 9", (16) 9"	7E319
	18"	36"	85"	18"			7E320
54	12"	36"	85"	12"	(6) 6", (48) 6"	(6) 12", (48) 9"	7E321
	18"	36"	85"	18"		(6) 12", (48) 12"	7E322
Hallowell®							
14	18"	36"	87"	17"	18"	12"	35KU26
21	18"	36"	87"	17"	12"		35KU32
36	18"	36"	87"	17"	9"	(32) 9", (4) 12"	35KU38
54	18"	36"	87"	17"	6"	(48) 9", (6) 12"	35KU44
	18"	36"	87"	17"			35KU56 *
78	18"	36"	87"	17"		(66) 6", (12) 9"	35KU50

** Includes bin front.*

Cast-Iron Pipe Fittings and Pipe

GRAINGER APPROVED

PIPE FITTINGS

Galvanized iron pipe fittings have a tensile strength of no more than 50,000 lb. Manufactured per international standards for durability and corrosion resistance. Feature quality set screws with antirust coating. Fittings build with no welding required; pipe cutters and a standard hex tool are usually the only tools needed. Use No. 30LX45 screws for ¾" and 1" pipe sizes, and No. 30LX47 screws for 1¼", 1½", and 2" pipe sizes; order separately on Grainger.com®. Constructed to ASTM Standards.

PIPE

Pipe is welded and hot-dipped galvanized for corrosion resistance. Tensile strength of 30,000 lb. Constructed to ASTM Standards.

Pipe I.D.	Pipe O.D.
¾"	1.05"
1"	1.32"
1¼"	1.66"
1½"	1.90"
2"	2.38"


A.

B.

C.

D.

E.

F.

G.

H.

I.

J.

K.

L.

M.

N.

O.

P.

Q.

R.

S.

T.

U.

V.

W.

X.

Key	Description	NOMINAL PIPE SIZE (IN.) ¾ Item No.	1 Item No.	1¼ Item No.	1½ Item No.	2 Item No.
Structural Pipe Fittings						
A	Single-Socket Tee	30LW89	4NXP5	4NXT2	4NXU8	30LW90
B	Straight Coupling	30LW91	4NXP6	4NXT3	4NXU9	30LW92
C	Elbow	30LW93	4NXP7	4NXT4	4NXV1	30LW94
D	Adjustable Side-Outlet Tee	30LW95	4NXP8	4NXT5	4NXV2	30LW96
E	Side-Outlet Elbow	30LW97	4NXP9	4NXT6	4NXV3	30LW98
F	Side-Outlet Tee	30LW99	4NXR1	4NXT7	4NXV4	30LX01
G	Three-Socket Tee	30LX02	4NXR2	4NXT8	4NXV5	30LX03
H	Slip-On Cross	30LX04	4NXR3	4NXT9	4NXV6	30LX05
I	Swivel Flange	30LX06	4NXR4	4NXU1	4NXV7	30LX07
J	Clamp-On Crossover	30LX08	4NXR5	4NXU2	4NXV8	30LX09
K	Base Flange	30LX10	4NXR6	4NXU3	4NXV9	30LX11
L	Railing Base Flange	30LX12	4NXR7	4NXU4	4NXW1	30LX13
M	Wall Flange	30LX14	4NXR8	4NXU5	4NXW2	30LX15
N	Slip-On Plug	30LX16	4NXR9	4NXU6	4NXW3	30LX17
O	Single-Swivel Socket	30LX18	4NXT1	4NXU7	4NXW4	30LX19
P	Combination Socket Tee and Crossover	30LX20	30LX21	30LX22	30LX23	30LX24
Q	Crossover	30LX25	30LX26	30LX27	30LX28	30LX29
R	Eye Fitting	30LX30	30LX31	30LX32	30LX33	30LX34
S	Four-Socket Cross	30LX35	30LX36	30LX37	30LX38	30LX39
T	Three-Socket Cross	30LX40	30LX41	30LX42	30LX43	30LX44
U	Double Swivel Socket	30LX50	30LX51	30LX52	30LX53	30LX54
V	Corner Swivel Socket	30LX55	30LX56	30LX57	30LX58	30LX59
W	Rail Support	30LX60	30LX61	30LX62	30LX63	30LX64
Galvanized Pipe						
X	7-ft. Length, Pkg. of 5	—	4NXW5	4NXW6	4NXW7	—

Aluminum Slip-On Pipe Fittings and Pipe

Hollaender Your Handrail Source.

- Corrosion-resistant, nonmagnetic, nonsparking

Rugged fittings are as strong as malleable iron, but only ⅓ the weight. The 535 alloy aluminum fittings are suitable for use with aluminum pipe, black iron, galvanized carbon steel, or stainless steel with no electrolytic corrosion. You can easily assemble the railing and structure with just a standard hex key. Innovative set screw design can drastically reduce loosening caused by vibration, and they can resist pull-out and rotational slip. All pipe is anodized aluminum. OSHA, IBC, BOCA, SBC, and UBC Compliant.

Pipe I.D.	Pipe O.D.
1"	1.32"
1¼"	1.66"
1½"	1.90"
2"	2.38"


A.

B.

C.

E.

F.

G.

H.

I.

J.

K.

L.

M.

N.

O.

P.

Q.

R.

S.

T.

U.

V.

Key	Type	NOMINAL PIPE SIZE (IN.) 1 Item No.	1¼ Item No.	1½ Item No.	2 Item No.
Structural Pipe Fittings					
A	Elbow	54WK13	54WK14	54WK15	54WJ78
B	Adjustable Elbow	54WK10	54WJ96	54WJ77	54WJ81
C	Side-Outlet Elbow	54WK38	54WK39	54WJ95	14G939
D	Adjustable Elbow/Tee	—	54WK11	54WK12	—
E	Tee	54WK23	54WK24	54WK25	54WJ79
F	Tee-E	54WK29	—	—	—
G	Adjustable Tee	—	54WJ76	54WJ99	—
H	Side-Outlet Tee-E	54WK04	54WK05	54WK06	14G940
I	Adjustable Cross Tee	54WJ85	—	—	14G942
J	Cross-E	54WK35	54WK36	54WK37	54WJ80
K	Offset Cross	54WK07	54WK08	54WK09	—
L	Round Base Flange	—	54WK19	54WK20	—
M	Base Flange	54WJ86	54WK21	54WK22	54WJ82
N	Rectangular Flange	54WJ87	—	—	—
O	Adjustable Flange	54WJ88	54WK01	54WK02	—
P	Wall Flange	54WK26	54WK27	54WK28	—
Q	External Coupling	54WK32	54WK33	54WK34	54WJ84
R	Plug	54WJ89	54WJ90	54WJ91	54WJ83
S	Shelf Tab	54WJ92	54WJ93	54WJ94	—
T	Adjustable Swivel	54WK16	54WK17	54WK18	—
U	Handrail Bracket	—	54WK03	—	—
Anodized Pipe					
V	8 ft. L, Pkg. of 5	54XN47	54XN49	54XN48	—



Storage Shed
No. 32XT05



Horizontal Shed
with Split Lid
No. 2ERX1

suncast Rubbermaid

Plastic Outdoor Storage Sheds

SUNCAST®

Easy-to-assemble and feature a reinforced resin floor with front ramp. Sturdy padlock ready doors for added security (lock not included). Multi-wall panels are engineered for strength and stability and will not rust or rot.

Note: Not intended for flammable, caustic, or hot items.

RUBBERMAID®

Impact- and weather-resistant polypropylene construction is UV protected. Interlocking double-wall panels are easy to assemble. Feature a heavy-duty floor with an angled entry ramp. Wide double doors are lockable (padlocks not included).

All models are designed to accommodate 1 wood shelf (not included). No. 2ERX1 has a split lid to allow access from either side.



Vertical Shed
No. 2ERW6

Cap.	Overall Width	Overall Height	Overall Depth	Brand	Item No.
Storage Sheds					
206 cu. ft.	8 ft. 4½"	8 ft. 7"	4 ft. ¾"	Suncast	**32XT04**
378 cu. ft.	100½"	103"	85¾"	Suncast	**32XT05**
547 cu. ft.	8 ft. 4½"	8 ft. 7"	10 ft. 2¼"	Suncast	**32XT06**
715 cu. ft.	8 ft. 4½"	8 ft. 7"	13 ft. 2¾"	Suncast	**32XT07**
882 cu. ft.	100½"	103"	195¼"	Suncast	**32XT08**
Horizontal Sheds					
18 cu. ft.	4 ft. 7"	3 ft.	2 ft. 4"	Rubbermaid Commercial Products	**2ERW8**
32 cu. ft.	5 ft.	3 ft. 11"	2 ft. 8"	Rubbermaid Commercial Products	**2ERW7**
70 cu. ft.	70½"	52"	44¼"	Suncast	**32XT03**
Horizontal Shed w/Split Lid					
18 cu. ft.	4 ft. 7"	3 ft.	2 ft. 4"	Rubbermaid Commercial Products	**2ERX1**
Vertical Shed					
17 cu. ft.	2 ft. 6"	6 ft.	2 ft. 1"	Rubbermaid Commercial Products	**2ERW6**

suncast

Plastic Outdoor Storage Boxes

Impact-resistant polypropylene construction is UV protected and is virtually maintenance free.

Note: Not intended for flammable, caustic, or hot items.

Deck Box/Bench—Dual-function box offers storage, as well as additional seating area. Convenient storage tray holds accessories. Features weather-resistant design. Easy assembly without tools.

Deck Box with Wheels—Wheels and handles allow easy portability. Feature weather-resistant design and tool-free assembly.

Patio Bench and Seat—Feature weather-resistant design.



Extended Deck
Box/Bench
No. 2XJF7



Deck Box
with Wheels
No. 2XJF8



Patio Bench
No. 4AYV1

Description	Cap.	Overall Dim. W	Overall Dim. H	Overall Dim. D	Item No.
Extended Deck Box/Bench	129 gal.	53"	27½"	29"	**2XJF7**
Deck Box	127 gal.	54¼"	27¼"	27¼"	**15X399**
Deck Box	99 gal.	53½"	24"	27½"	**15X401**
Deck Box with Wheels	73 gal.	46"	23"	22"	**2XJF8**
Deck Box with Wheels	73 gal.	46"	25½"	24"	**15X398**
Patio Bench	50 gal.	52¾"	34½"	21"	**4AYV1**
Patio Seat	31 gal.	30⅝"	29⅞"	20¾"	**4AYV2**



Smoker's Shelter
No. 49P403



Smoking Shelter with Aluminum Bench
No. 3CHN8

Smoking Shelters

GA

Galvanized tube construction. Include lag-down plates for secure installation. Ship unassembled.

No. 49P403—PC panels and a PVC sloped roof provide added protection from inclement weather.

No. 49P402—Feature 28-ga. color steel siding and roofs. 42"W clear plastic shield provides protection from the weather and visibility from the outside. A wooden bench on the back panel offers a comfortable place to lean back. Blue powder-coat frames and beige panels.

PORTA-KING

All structural steel smoking shelters ship completely assembled and ready for immediate use. Simply anchor base plates onto existing concrete slab. Feature 11-ga. heavy-duty welded-steel construction. Steel surfaces include a rust-resistant coating. Integral roof structures include self-contained gutters.

GA GRAINGER APPROVED PORTA-KING BUILDING SYSTEMS

Standard Smoking Shelters—Include full-length windows with maintenance-free anodized aluminum frames and 3/16" tempered safety glass to provide 360° visibility.

Smoking Shelters with Aluminum Bench—Include full-length maintenance-free aluminum bench, with back rest, factory-installed onto shelter frame.

Smoking Shelters with Aluminum Bench, Light Fixture, and Exhaust Fan—Include a ceiling mounted 160 cfm exhaust fan with damper/vent and a 64W fluorescent light fixture with weatherproof ballast. Each is prewired in surfaced-mounted conduit to separate wall-mounted switches. Both devices are wired to a surface-mounted junction to facilitate electrical connection from onsite power source.

Dim. W	Dim. H	Dim. L	Item No.
GA Smoking Shelters			
77"	84"	46"	**49P403**
100 3/8"	91"	96"	**49P402**
Porta-King Standard Smoking Shelters			
96"	93 1/2"	60"	**3CHN7**
120"	93 1/2"	72"	**3EPN2**
144"	93 1/2"	96"	**3EPN5**
Porta-King Smoking Shelters w/Aluminum Bench			
96"	93 1/2"	60"	**3CHN8**
120"	93 1/2"	72"	**3EPN3**
144"	93 1/2"	96"	**3EPN6**
Porta-King Smoking Shelters w/Aluminum Bench, Light Fixture & Exhaust Fan			
96"	93 1/2"	60"	**3EPN1**
120"	93 1/2"	72"	**3EPN4**
144"	93 1/2"	96"	**3EPN7**



Slope Roof, Beige
No. D7717



A-Shape Roof, Green
No. D7721

Steel Sheds

GA GRAINGER APPROVED

Strong, waterproof, corrugated steel sheds can be easily assembled by a single person in just 4 hr. Support 27-lb./sq. ft. and withstand winds of up to 91km/hr. Include pre-made 1-pc. hinged doors with locking latches; Nos. D7719 and D7723 have 2-pc. doors.

Cap.	W	H	D	▶CHOOSE: Shed Color	Item No.
Slope Roof					
175 cu. ft.	5 ft. 8 45/64"	6 ft. 2 51/64"	6 ft. 2 51/64"		**D7717**
258 cu. ft.	8 ft. 6 13/32"	6 ft. 2 51/64"	6 ft. 2 51/64"	Beige, Brown, Green	**D7718**
342 cu. ft.	11 ft. 3 51/64"	6 ft. 2 51/64"	6 ft. 2 51/64"		**D7719**
A-Shape Roof					
248 cu. ft.	8 ft. 6 13/32"	6 ft. 10 45/64"	6 ft. 2 51/64"		**D7721**
492 cu. ft.	11 ft. 3 51/64"	6 ft. 10 45/64"	8 ft. 6 13/32"	Beige, Brown, Green	**D7722**
653 cu. ft.	11 ft. 3 51/64"	6 ft. 10 45/64"	11 ft. 3 51/64"		**D7723**



No. 2RMZ1

GA GRAINGER APPROVED

Galvanized Shelters

Maintenance-free corrugated galvanized steel construction provides secure, weather-resistant storage. Include wood floor and built-in rain gutters. Single swing-out door with right-side hinge is lockable (padlock not included). Fully assembled building can be transported with a forklift. Easy to assemble.

Overall Dim. W	Overall Dim. H	Overall Dim. D	Item No.
109 3/16"	84 3/4"	76 1/2"	**2RMZ1**
109 1/2"	84 13/16"	152 13/16"	**2RMZ2**

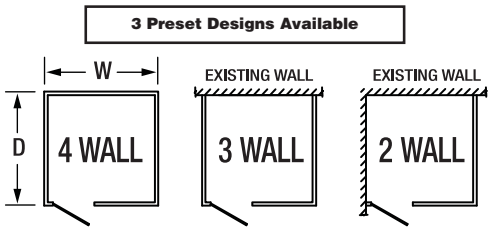


ARROW STORAGE PRODUCTS

Shed Storage Buildings

Extra-large storage buildings are constructed of corrosion-resistant vinyl-coated steel for years of durability. A roll-up garage-style door and second sliding door both provide convenient access. Ideal for storage or as additional workspace.

Overall Dim. W	Overall Dim. H	Overall Dim. D	Door Opening Dim. H	Door Opening Dim. W	Item No.
146 1/8"	103 1/4"	117"	72"	95"	**36LR06**
146 1/8"	103 1/4"	203 1/4"	72"	95"	**36LR07**
146 1/8"	103 1/4"	289 1/2"	72"	95"	**36LR08**
146 1/8"	103 1/4"	375 3/4"	72"	95"	**36LR09**
169"	116"	260 3/4"	91 3/4"	106 1/2"	**36LR10**
169"	116"	375 3/4"	91 3/4"	106 1/2"	**36LR11**



PORTA-KING BUILDING SYSTEMS

Modular Unassembled In-Plant Offices

- Assembled units are available online, see Grainger.com®

Designed for ease of assembly; can be easily modified at any time. 2- and 3-wall buildings are designed to attach to existing walls, not to each other. Sturdy 3"-thick panel design. Steel/Vinyl covered panels have steel on the outside and vinyl on the inside. Vinyl covered panels feature vinyl on both sides.

ALL OFFICES INCLUDE:

- All wall panels, connecting posts, framing, and hardware
- 1 heavy-duty 20 ga. steel swing door with large vision lite that aesthetically matches posts, wall panels, and framing
- 8-ft.-tall panels with Class A fire rating
- Outlets/switches include boxes and devices; install as needed in connecting posts; no wire included
- For the number of outlets in each model, see Grainger.com®

Note: PE-stamped drawings are not included; call 1-800-GRAINGER (472-4643). Before purchasing, consult your local building department for applicable code requirements. Consult an electrician for all electrical installations.



4-Wall Unit (Shown with Optional Windows) Nonprogressive Design—Remove and Exchange Wall Panels without Disturbing Adjacent Panels

Description	▶CHOOSE: Color	Item No.
Accessories		
Optional Window	White, Beige, Gray	G4894
Extra Door Assembly	White, Beige, Gray	G4895
Extra Light Fixture, Prewired	White	3NYE5
Extra Light Fixture, No-Wire	White	3NYX9
Modular Electric Kit, Pre-Wired, 8W x 8"H	—	3NYE6
Modular Electric Kit, Pre-Wired, 8W x 10"H	—	3NYE7
Modular Electric Kit, Pre-Wired, 8W x 12"H	—	3NYE8
Modular Electric Kit, Pre-Wired, 10W x 10"H	—	3NYE9
Modular Electric Kit, Pre-Wired, 10W x 12"H	—	3NYF1
Modular Electric Kit, Pre-Wired, 12W x 12"H	—	3NYF2
Modular Electric Kit, Pre-Wired, 12W x 16"H	—	3NYF3
Modular Electric Kit, Pre-Wired, 16W x 16"H	—	3NYF4
Standard Duplex Outlet, No-Wire, 115V	White, Beige, Gray	G4896
Modular Duplex Outlet, Pre-Wired, 115V	White, Beige, Gray	G4897
A/C Cutout and Frame	White, Beige, Gray	G4898

D	W	Lights	▶CHOOSE: Color	UNASSEMBLED 4-WALL Item No.	UNASSEMBLED 3-WALL Item No.	UNASSEMBLED 2-WALL Item No.
Steel/Vinyl Covered Drywall Panels, R-12 Insulation						
8 ft.	8 ft.	1	Beige, Gray, White	D5454	D5472	D5489
	10 ft.	2		D5455	D5473	D5491
	12 ft.	2		D5456	D5474	D5492
10 ft.	10 ft.	2		D5457	D5475	D5493
	12 ft.	3		D5458	D5476	D5494
	20 ft.	2		—	H7580	H7574
12 ft.	12 ft.	3		D5459	D5477	D5495
	16 ft.	4		D5461	D5478	D5496
	28 ft.	4		—	H7593	H7584
	32 ft.	4		H7616	H7597	H7587
16 ft.	16 ft.	5		D5462	D5479	D5497
	20 ft.	5		H7606	H7598	H7585
	32 ft.	7		—	H7613	H7604
20 ft.	20 ft.	8		H7615	H7605	H7594
	24 ft.	9		H7618	H7610	H7600
	32 ft.	10		H7624	H7619	H7611
	40 ft.	14		H7625	H7623	H7620

D	W	Lights	▶CHOOSE: Color	UNASSEMBLED 4-WALL Item No.	UNASSEMBLED 3-WALL Item No.	UNASSEMBLED 2-WALL Item No.
Vinyl Covered Drywall Panels, R-9 Insulation						
8 ft.	8 ft.	1	Beige, Gray, White	D5463	D5481	D5498
	10 ft.	2		D5464	D5482	D5499
	12 ft.	2		D5465	D5483	D5501
10 ft.	10 ft.	2		D5466	D5484	D5502
	12 ft.	3		D5467	D5485	D5503
	20 ft.	2		H7578	H7573	H7572
12 ft.	12 ft.	3		D5468	D5486	D5504
	16 ft.	4		D5469	D5487	D5505
	28 ft.	4		H7589	H7579	H7575
	32 ft.	4		—	H7581	H7577
16 ft.	16 ft.	5		D5471	D5488	D5506
	20 ft.	5		H7588	H7583	H7576
	32 ft.	7		H7607	H7601	H7591
20 ft.	20 ft.	8		H7599	H7590	H7582
	24 ft.	9		H7603	H7595	H7586
	32 ft.	10		H7614	H7608	H7602
	40 ft.	14		—	H7617	H7612

Assembled Guard Buildings

PORTA-KING BUILDING SYSTEMS

- Non-Ballistic Rated have fully insulated R-10 walls and ceiling; corrosion-resistant anodized aluminum exterior
- Ballistic-Rated have fully insulated R-10 walls and R-19 ceiling; high strength white steel exterior

Buildings ship to site ready for immediate use. Forklift pockets in the baseframe allow buildings to be easily moved.

Include 1 sliding door with window, 1 steel counter, one 115V duplex outlet, one 230V outlet, one 12-circuit breaker box, 1 light with switch (except Nos. 3CHN5 and 3CHN6 have 2 lights with switch), 2 fixed windows, and sliding windows (quantities listed in table).

Top suspended, 1¾"-thick sliding door has laminated hook bolt deadlock with master-key option. 360° glazing provides unobstructed views. Weatherproof surface on exterior roof creates weather tight seal.

Note: Dimensions listed do not include HVAC unit dimensions. Call 1-800-GRAINGER (472-4643) for additional dimensions.

Ballistic-Rated Steel—All-welded steel exterior has Level 3 ballistic-rated glazing and no exposed fasteners; provide a sturdy shelter for security personnel and equipment in more-hazardous areas. Conform to standards for UL752 Level 3 ballistic protection from grade to roof overhang.

W (in.)	L (in.)	H (in.)	Description	HVAC UNIT NOT INCLUDED Item No.	HVAC UNIT INCLUDED Item No.
Pre-Wired, Non-Ballistic Rated					
48⅞	75	98¼	3 Sliding Windows	3CHL8	3CHL9
81	101	98¼	4 Sliding Windows	3CHN1	3CHN2
101	101	98¼	6 Sliding Windows	3CHN3	3CHN4
101	129	98¼	6 Sliding Windows	3CHN5	3CHN6
Ballistic-Rated, Level 3					
54	78	103	5 Fixed Windows	10F335	10F336
54	102	103	7 Fixed Windows	10F337	10F338
78	102	103	9 Fixed Windows	10F339	10F340
102	102	103	11 Fixed Windows	10F341	10F342



4 Sliding Windows w/HVAC Unit No. 3CHN2

Note: Dimensions listed do not include HVAC unit dimensions. Please call 1-800-GRAINGER (472-4643) for additional dimensions.



Modular In-Plant Offices

PORTAFAB

Painted steel stud framing system uses 3"-thick, 8-ft. tall walls to create a standalone, free-standing structure within a facility.

ALL OFFICES INCLUDE:

- All wall panels, posts, framing, and hardware
- Corrugated non-load bearing steel roof
- 24" x 48" acoustical ceiling
- 36"W x 84"H x 1¾"-thick, 20-ga. steel door and 18-ga. steel frame with a 24"W x 36"H x ¼"-thick tempered glass window, left-hand swing lever lockset, hinges, sweep, lights, outlets, and switch; no wire included

ACCESSORIES

Air Conditioner Frame—Factory-trimmed 26"W x 15⅝"H opening centered at 60" above finished floor. Painted aluminum.

Optional Fixed Window—¼"-thick tempered safety glass comes preglazed in aluminum window frame.

Optional Swing Door—20-ga., 1¾"-thick steel door with baked enamel finish is prehung in an 18-ga. frame with mortised hinges, sweep, and lever lock.

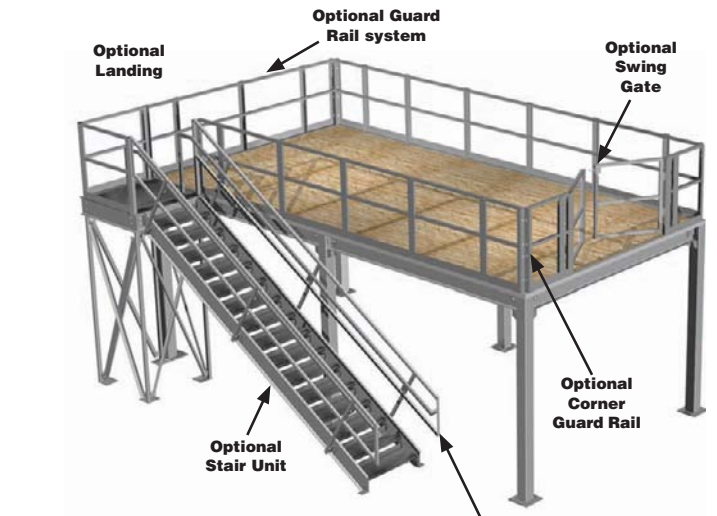
Standard and Modular Light Fixtures—2-ft. x 4-ft. recessed troffer fluorescent light fixtures with acrylic lenses. T8 bulbs not included.

Standard Duplex Outlet—Includes handy box, 10 ft. of conduit, and coverplate. 2"W x 3"H.

Modular Wiring Kits—Provide your office with everything it needs for simple wiring installation. All outlet boxes, switches, wiring, and conduits fit neatly into the studs of the framing system.

D	W	▶CHOOSE: Color	STEEL-COVERED DRYWALL Outlets	Lights	Item No.	VINYL-COVERED DRYWALL Outlets	Lights	Item No.
Unassembled 2-Wall								
8 ft. 1¼"	10 ft. 1¼"	Gray, Beige	2	1	**J6441**	2	1	**J6447**
	12 ft. 1¼"		2	2	**J6444**	2	2	**J6450**
10 ft. 1¼"	10 ft. 1¼"		2	2	**J6453**	2	2	**J6465**
	12 ft. 1¼"		3	2	**J6459**	3	2	**J6468**
16 ft. 1¼"	16 ft. 1¼"		5	6	**J6462**	5	6	**J6456**
Unassembled 3-Wall								
8 ft. 1¼"	10 ft. 4½"	Gray, Beige	2	1	**J6442**	2	1	**J6448**
	12 ft. 4½"		2	2	**J6445**	2	2	**J6451**
10 ft. 1¼"	10 ft. 4½"		2	2	**J6454**	2	2	**J6466**
	12 ft. 4½"		3	2	**J6460**	3	2	**J6469**
16 ft. 1¼"	16 ft. 4½"		5	6	**J6463**	5	6	**J6457**
Unassembled 4-Wall								
8 ft. 4½"	10 ft. 4½"	Gray, Beige	2	1	**J6440**	2	1	**J6446**
	12 ft. 4½"		2	2	**J6443**	2	2	**J6449**
10 ft. 4½"	10 ft. 4½"		2	2	**J6452**	2	2	**J6464**
	12 ft. 4½"		3	2	**J6458**	3	2	**J6467**
16 ft. 4½"	16 ft. 4½"		5	6	**J6461**	5	6	**J6455**

Description	▶CHOOSE: Color	Item No.
Accessories		
Air Conditioner Frame, 60" Sill Height	Champagne	**6CFA7**
Optional Fixed Window, 48"W x 36"H	Champagne	**6CEZ3**
Optional Swing Door, 36"W x 84"H	Champagne	**6CEZ4**
Standard Light Fixture, 2' x 4', 110V	White	**6CEZ5**
Modular Light Fixture, 2' x 4', 110V	White	**6CEZ6**
Standard Duplex Outlet, 110V	Ivory	**6CFA5**
Modular Wiring Kit, 8' x 10', 110V	Gray, Champagne	**J0424**
Modular Wiring Kit, 8' x 12', 110V	Gray, Champagne	**J0425**
Modular Wiring Kit, 10' x 10', 110V	Gray, Champagne	**J0426**
Modular Wiring Kit, 10' x 12', 110V	Gray, Champagne	**J0427**
Modular Wiring Kit, 16' x 16', 110V	Gray, Champagne	**J0430**



PORTA-KING BUILDING SYSTEMS

Bolt Assembly Mezzanines

Designed for 125 lb./sq.-ft. uniform load, L/360 deflection. Meet IBC building code for seismic design categories A to C. Categories D to F require modifications to standard designs at additional cost. Mezzanines are 110"H to top of deck. Structural steel beams, purlins, and girders with 5" x 5" square columns help create a rigid floor space. Underside has a white finish to enhance light levels. A full perimeter steel fascia conceals the edges of the deck surface. Mezzanines are stand alone structures. Gray polyurethane acrylic enamel painted finish.

High-density composite flooring is highly recommended for structures that need to accommodate heavy pallet jacks, carts, or dollies.

ACCESSORIES

Guardrail—Welded 1-pc. design with kick plate. Can be easily secured to mezzanine deck surface.

Corner Guardrail—Welded 2-pc. design with kick plate.

Swing Gate—Allows for easy relocation within the guardrail system. Includes latch.

Mezzanine Stair Unit (Without Landing)—Stairs are fully welded with closed risers and nonskid treads. Welded, 1-pc. unit has 34" high fully-welded handrail and 42" high guardrail. Meets IBC.

Mezzanine Landing—Freestanding unit can be installed anywhere on the mezzanine and easily moved to another location. Features steel diamond plate finished floor. Includes a guardrail on 2 sides and vertical corner posts that can accept either left- or right-handed stair placement.

W (ft.)	L (ft.)	H	¾" OSB on 20-ga. Deck Item No.	¾" High-Density Board on 20-ga. Deck Item No.
Platform Mezzanines				
8	8	110"	**3NYH3**	**10F343**
8	12	110"	**3NYG8**	**10F344**
8	16	110"	**3NYG9**	**10F345**
8	20	110"	**3NYH1**	**10F346**
8	24	110"	**3NYH2**	**10F347**
12	12	110"	**3NYF8**	**10F348**
12	16	110"	**3NYF9**	**10F349**
12	20	110"	**3NYG1**	**10F350**
12	24	110"	**3NYG2**	**10F351**
16	16	110"	**3NYG3**	**10F352**
16	20	110"	**3NYG4**	**10F353**
16	24	110"	**3NYG5**	**10F354**
20	20	110"	**3NYG6**	**10F355**
20	24	110"	**3NYG7**	**10F356**

Description	W (ft.)	L (ft.)	Item No.
Accessories			
Guardrail	3½	4	**3NYH9**
Corner Guardrail	3½	2	**3NYH5**
Swing Gate	3½	6¼	**3NYH6**
Mezzanine Stair Unit	3¾	15	**3NYH8**
Mezzanine Landing	4	4	**3NYH4**

Adjustable Opening	GALVANIZED STEEL Item No.	SAFETY YELLOW POWDER COATED Item No.
Standard Size, 12" Vertical Coverage		
17" to 18½"	31TT42	31TT66
19" to 21½"	31TT43	31TT67
22" to 24½"	31TT44	31TT68
25" to 27½"	31TT45	31TT69
28" to 30½"	31TT46	31TT70
31" to 33½"	31TT47	31TT71
34" to 36½"	31TT48	31TT72
37" to 39½"	31TT49	31TT73
Extended 22" Vertical Coverage		
17" to 18½"	31TT58	31TT50
19" to 21½"	31TT59	31TT51
22" to 24½"	31TT60	31TT52
25" to 27½"	31TT61	31TT53
28" to 30½"	31TT62	31TT54
31" to 33½"	31TT63	31TT55
34" to 36½"	31TT64	31TT56
37" to 39½"	31TT65	31TT57



No. 31TT66



No. 31TT58

Condor

Self-Closing, Adjustable Safety Swing Gates

- Right- or left-swing

Easy-to-install adjustable gate will fit in a variety of different-sized openings. Auto-close with positive stops. Include mounting hardware.

PS DOORS

Adjustable Ladder Safety Gates

- Right- or left-swing

Self-closing swing gate provides 42" top- and mid-rail protection and minimizes the chances of a fall on elevated platforms, mezzanines or ladder ways. OSHA compliant.

Adjustable Opening	YELLOW POWDER COATED Item No.	GALVANIZED Item No.	304 STAINLESS STEEL Item No.
13¾" to 17½"	39L626	39L640	39L654
16¾" to 20½"	39L627	39L641	39L655
19¾" to 23½"	39L628	39L642	39L656
22¾" to 26½"	39L629	39L643	39L657
25¾" to 29½"	39L630	39L644	39L658
28¾" to 32½"	39L631	39L645	39L659
31¾" to 35½"	39L632	39L646	39L660
34¾" to 38½"	39L633	39L647	39L661
38¾" to 42½"	39L634	39L648	39L662
42¾" to 46½"	39L635	39L649	39L663
46¾" to 50½"	39L636	39L650	39L664



No. 39L626



No. 39L640



No. 39L654

Self-Closing, Adjustable Safety Swing Gates

Cotterman

- Width is adjustable in 2" increments
- Universal design for either right- or left-swing
- Friction-reducing bushings eliminate metal-to-metal contact
- Tested to 1,000,000 cycles without spring or hinge failure
- 2-part powder-coated finish,
- zinc-rich primer with UV-resistant polyester top coat

Help facilities meet OSHA and ANSI requirements for mandatory guarding of platform railing system openings. Include hardware for easy installation with no drilling, welding, or cutting. Stainless steel spring won't rust or corrode.

Adjustable Opening	POWDER COATED GRAY STEEL Item No.	POWDER COATED YELLOW STEEL Item No.	STAINLESS STEEL Item No.	GALVANIZED STEEL Item No.
16" to 26"	489H94	489H96	489H98	489J01
24" to 40"	489H95	489H97	489H99	489J02



Powder Coated Gray Steel
No. 489H94



Yellow Powder Coated Steel
No. 489H96

Universal Swing Gate

YellowGate®

- Width is adjustable in unlimited increments
- Universal design for either right- or left-swing
- Malbec tensioner for easy adjustment in the field
- Aluminum construction

Mount in just minutes with simple hand tools; no cutting, welding, or drilling required. Attach to walls, square and round tubing, or angle iron in either parallel or perpendicular mountings.

Adjustable Opening	Finish	Color	Item No.
16" to 36"	Powder Coated	Safety Yellow	22M481



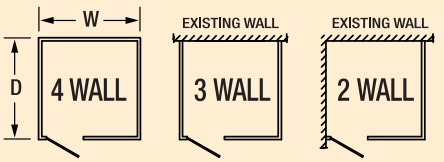
Welded and Woven Wire Mesh Partition Selection Guide

WELDED WIRE MESH PARTITIONS

- Welded wire construction allows the installer to make modifications with relative ease
- Lightweight but strong
- Feature straight lines; steel wires are placed perpendicularly and welded at each intersection, which allows it to maintain its shape when stressed
- Typically has larger openings than woven wire
- Less expensive than woven wire partitions

WOVEN WIRE MESH PARTITIONS

- Woven mesh often requires metal framing or edging to secure the partition panels
- Heavier product
- There are no easy footholds or handholds with woven wire panels
- Has a textured look with steel wires precision-crimped into a diamond shape, which locks them in to place and provides extra-strength



3 Preset Designs Available

How To Order Wire Partitions

1. Make a sketch of proposed enclosure. Label overall dimensions of walls required.

2. What is the height of the material required?

3. Post must be used between panels and doors.

4. Determine the size of door/s (width and height/swing or slide) and locate the door on the drawing.

A.—Which way will the door swing? In or out and either left or right. Please note on the drawing to clarify.

B.—With slide doors, do they slide left or right? Remember if the door has a 3-ft. opening, in the direction the door opens there needs to be a 3-ft. panel and post behind it for support.

5. Multiple panels are required to create desired height of structure (folding guard would require this step).

Example:

A.—Partitioning that is 8-ft. tall requires two 4-ft. tall panels between a set of posts.

B.—Partitioning that is 10-ft. tall requires two 5-ft. tall panels between a set of posts.

OR

Provide a drawing and forward all the information to your Grainger Account Manager and/or your local Grainger branch.

Welded Wire Partition/Fencing Systems and Predesigned Room Kits

FOLDING GUARD®


Shown with 3 Panels, 4 Posts, and 1 Sliding Door

- **Hinged door is available with a 3- or 4-ft. clear-width opening and a 94" clear height**
- **Sliding doors are available with a 4-, 6-, or 8-ft. clear-width opening and 96" clear height**
- **Galvanized finish**
- **Powder-coated doors**

Provide security with an unobstructed view of operation and/or contents. Modular design enables fast installation and easy relocation; more economical than woven wire. Panels trim easily with common wire cutting tools. Panels are 8-ga. (0.162") galvanized wire welded into a 1½" x 3" grid. 1½" bends on the top and bottom add rigidity and provide a mounting point to bolt horizontally stacked panels together (hardware included). Slide door track extends to prior panel post for increased strength. All doors include a cylinder lock with 2 keys. Heavy-duty 14-ga. 2" x 2" posts are welded to 6" x 2" x ¼" predrilled mounting plate. Posts are predrilled for panel attachment (capping channel and hardware included).

Depth	Width	Height	4-SIDED Item No.	3-SIDED Item No.	2-SIDED Item No.
Predesigned Hinged-Door Room Kits					
8 ft.	12 ft.	8 ft.	7A589	7A595	7A599
12 ft.	12 ft.	8 ft.	7A590	—	7A600
12 ft.	16 ft.	8 ft.	7A591	7A597	7A601
16 ft.	16 ft.	8 ft.	7A592	7A598	7A602

**** Nominal size. Panel is designed to fit between posts 8-ft. apart from center of post to center of post.***

Description	Item No.
Panels	
8 ft. W x 2 ft. H*	6H366
8 ft. W x 4 ft. H*	6H365
Hinged Doors	
2 ft. 8⅝"W x 7 ft. 9 13⁄64" H	488V88
4 ft. 8⅝" W x 7 ft. 9 13⁄16" H	488V94
Slide Doors	
4 ft. 8⅝"W x 7 ft. 9 13⁄16" H	488V89
6 ft. 5¼"W x 7 ft. 9 13⁄16" H	488V90
8 ft. 5¼"W x 7 ft. 9 13⁄16" H	488V91

Description	Item No.
Post	
8 ft. H	6H367
Post Extensions	
2 ft. H	6H368
4 ft. H	6H369
Kits	
Wall Clamp Kit	6H374
Transom Kit—10 Ft.	9YRJ3
Transom Kit—12 Ft.	7W344

PREDESIGNED WELDED WIRE ROOM KITS

Standard-size room kits include all components needed to put together a predesigned room. Include 4-ft. wide x 8-ft. high hinged door with cylinder lock and 2 keys.

Preconfigured Partition Cages

WireCrafters


Partition Cage No. 35W457

- **Hinged and sliding door locks are available on Grainger.com®**

Easy-to-install, modular design features the flexibility of welded wire mesh with the strength of framed panels. Powder-coated gray cage kits feature 2" square, 10-ga. welded wire and include 3-ft. wide hinged or 5-ft. wide sliding doors with cylinder locks. Include pre-hung doors framed in 1¼" x 1¼" x 13-ga. angle. Individual doors come with door strikes, padlock hasps, and spun-pin hinges welded into place. Wall panels are framed with 1¼" x 1¼" x 13-ga. angle. Include standard-grade ⅜" plated nuts and bolts for assembly.

Depth	Width	Height	4-SIDED Item No.	3-SIDED Item No.	2-SIDED Item No.	4-SIDED WITH CEILING Item No.
Partition Cages						
8 ft. 6"	8 ft. 4"	8 ft. 5¼"	35W461	35W459	35W457	35W462
10 ft. 4"	10 ft. 4"	10 ft. 5¼"	35W467	35W466	35W465	35W468
12 ft. 6"	12 ft. 6"	8 ft. 5¼"	35W463	35W460	35W458	35W464
20 ft. 6"	20 ft. 6"	10 ft. 5¼"	35W469	—	—	—

Overall Height	Overall Width	Includes	Item No.
Panels			
8 ft.	5 ft.	(2) 4 ft. H Panels	35W521
8 ft.	10 ft.		35W526
10 ft.	5 ft.	(2) 5 ft. H Panels	35W531
10 ft.	10 ft.		35W536
12 ft.	5 ft.	(3) 4 ft. H Panels	35W541
12 ft.	10 ft.		35W546

Description	Item No.
Run Posts	
8 ft. 5¼" H	35W547
10 ft. 5¼" H	35W548
12 ft. 5¼" H	35W549
Hinged Doors	
7 ft. 3⅝"H x 3 ft.W Door	35W583
Sliding Doors	
8 ft.H x 5 ft.W Door	35W587
10 ft.H x 5 ft.W Door	35W595

FOLDING GUARD®

Woven Wire Partitions and Predesigned Room Kits

Partitions make it easy to create enclosed, lockable areas for securing valuables. Designs can be reconfigured or expanded by adding components. Made of 10-ga. steel wire crimped and woven into 1½" diamond mesh and securely clinched to steel channel framing. Leveling shoes on posts and top capping channels help maintain structural stability. Panels mount 3" from floor and bolt together quickly with included hardware. Doors include cylinder lock with 2 keys. Gray powder coat finish. Roofs, as well as custom sizes, are available; call 1-800-GRAINGER (472-4643) or visit Grainger.com®.



PREDESIGNED WOVEN WIRE ROOM KITS

Convenient, prepackaged kits contain everything needed to put together a specific room design. Include 4-ft. wide x 8-ft. high sliding door with built-in, keyed-different cylinder lock.

Overall Width	Overall Height	Item No.
Woven Wire Partition Panels		
5 ft.	8 ft.	**4KY68**
	10 ft.	**4KY69**
4 ft.	8 ft.	**4KY70**
	10 ft.	**4KY71**
3 ft.	8 ft.	**4KY72**
	10 ft.	**4KY73**
2 ft.	8 ft.	**4KY74**
	10 ft.	**4KY75**
1 ft.	8 ft.	**4KY76**
	10 ft.	**4KY77**
Woven Wire Partition Adjustable Panels		
2½" to 1 ft. 1"	8 ft.	**4KY78**
	10 ft.	**4KY79**

Description	Item No.
Hinged Doors	
3 ft. 10"W x 6 ft. 7½" H, 3-ft. Transom	**4KY91**
3 ft. 10" W x 6 ft. 7½" H, 1-ft. Transom	**4KY89**
Sliding Doors	
8 ft.W x 9 ft. 5¼" H	**4LA11**
7 ft. 9½"W x 8 ft. H	**4KY99**
Line Posts with 5" x 9" Foot Plate	
10 ft.	**4KY81**
8 ft.	**4KY80**
Corner Posts (No Foot Plate)	
10 ft.	**4KY83**
8 ft.	**4KY82**
Kits	
Wall Clamp Kit	**4KY85**
T-Joint Panel Intersection Kit	**4KY87**

Depth	Width	Height	4-SIDED Item No.	3-SIDED Item No.	2-SIDED Item No.
Predesigned Woven Wire Room Kits					
12 ft.	16 ft.	8 ft.	**4JY86**	**4JY85**	**4JY84**
8 ft.	12 ft.	8 ft.	**4JY83**	**4JY82**	**4JY81**

Woven Wire Partitions

HUSKY RACK & WIRE™

Designed for fast installation. Create secure storage area, driver cage or maintenance cage. Designs can be configured in a wide variety of shapes and sizes. Hook easily slips into place and locks securely into a pre-punched 2½" square post not easily accessible from the outside. Made of 10-ga. crimped wire and woven into 1½" diamond mesh. Gray polyurethane finish. All doors include cylinder lock and 2 keys. Partitional panels sold in pairs.

Overall Width	Overall Height	Item No.	Pkg. Qty.
Woven Wire Partition Panels			
10 ft.	5 ft.	**8DXT8**	2
	4 ft.	**8DV07**	2
9 ft.	5 ft.	**8EGN3**	2
	4 ft.	**8DW75**	2
8 ft.	5 ft.	**9WLA8**	2
	4 ft.	**9T403**	2
7 ft.	5 ft.	**9EYT0**	2
	4 ft.	**8X601**	2
6 ft.	5 ft.	**9JA55**	2
	4 ft.	**8DW57**	2
5 ft.	5 ft.	**8YCK8**	2
	4 ft.	**9CU46**	2
4 ft.	5 ft.	**8V502**	2
	4 ft.	**9GK92**	2
3 ft.	5 ft.	**9TC80**	2
	4 ft.	**9MEY4**	2
2 ft.	5 ft.	**9MDE9**	2
	4 ft.	**9FAL6**	2
1 ft.	5 ft.	**8W519**	2
	4 ft.	**9KEK6**	2
Fill-a-Gap Panels			
1 ft.	8 ft.	**8DHR5**	1
1" to 1 ft.	10 ft.	**8DJA7**	1

Overall Width	Overall Height	Item No.	Pkg. Qty.
Wire Partition Hinged Doors with 1-ft. Transom			
4 ft.	8 ft.	**9RCT0**	1
3 ft.	8 ft.	**8DHR2**	1
Wire Partition Hinged Doors with 3-ft. Transom			
4 ft.	10 ft.	**8DHR3**	1
3 ft.	10 ft.	**8RKE7**	1
Wire Partition Sliding Doors			
10 ft.	10 ft.	**8NFN7**	1
	8 ft.	**9T399**	1
8 ft.	10 ft.	**8DVK7**	1
	8 ft.	**9EY93**	1
6 ft.	10 ft.	**8ZCD8**	1
	8 ft.	**8NKA5**	1
5 ft.	10 ft.	**9K676**	1
	8 ft.	**8YAG9**	1
4 ft.	10 ft.	**8DHR4**	1
	8 ft.	**9JA15**	1
3 ft.	10 ft.	**9KE29**	1
	8 ft.	**8DVK4**	1
Wire Partition Line Posts			
—	10 ft.	**8DJ84**	1
	8 ft.	**8WAW0**	1
Wire Partition Corner Posts			
2½"	10 ft.	**8ZCE4**	1
	8 ft.	**8YAH4**	1



Workbench Top Selection Guide

Steel stringer and fasteners included. Choose from 4 edges and 7 work surfaces.

Steel—Smooth surface will not crack or absorb oil. 12-ga. Gray powder-coated finish.

Shop—Versatile, oil- and moisture-resistant surface. Top and bottom are ⅜" super-hard custom board, sanded and sealed.

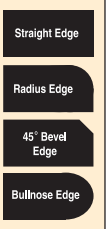
Plastic Laminate—Nonconductive surface, ideal for electronics assembly or repair and service of component parts. Melamine-laminated, gray scrim satin finish.

ESD Plastic Laminate—Protect circuit boards and other electronic components from electrostatic discharge. Built-in ground snap for easy connection. Resist stains, oils, and diluted chemicals. Almond finish.

Butcher Block Maple—Resist damage; provides maximum shock absorption. Top-quality, kiln-dried, hardwood maple laminated strips. Oil-rubbed natural finish.

Oak—Nonconductive, impact-resistant solid oak strips laminated together and sanded for a smooth, tough surface. Clear lacquer finish.

Phenolic—Nonconductive with higher resistance to chemicals, stains, abrasions, scratching, and humidity. Black finish.



GA GRAINGER APPROVED

Workbench Tops and Legs


No. 4TW34

WORKBENCH TOPS

See Selection Guide at the top of this page for further information.

Description	Top Width	Top Thickness	30" DEPTH Item No.	36" DEPTH Item No.
Workbench Tops				
Steel, Straight Edge	60"	1½"	4TW34	—
	72"	1½"	4TW35	4TW36
	96"	1½"	20GZ70	20GZ71
Plastic Laminate, Straight Edge	48"	1¾"	4KYZ7	—
	60"	1¾"	4TW74	—
	72"	1¾"	4TW75	4TW77
	96"	1¾"	—	4TW78 *
Plastic Laminate, Bullnose Edge	60"	1¾"	4KZA1	—
	72"	1¾"	4KZA2	4KZA3
	96"	1¾"	4KZA4 *	—
ESD Plastic Laminate, Straight Edge	72"	1¼"	4KZA8	—
Engineered Wood, Straight Edge	48"	1½"	4KYZ4	—
	60"	1½"	4TW87	—
	72"	1½"	4TW88	4TW90
	96"	1½"	4KYZ5 *	4KYZ6 *
Butcher Block Birch, Straight Edge	48"	1¾"	4KYY2	—
	60"	1¾"	4TW44	—
	72"	1¾"	4TW45	4TW47
	96"	1¾"	4TW46 *	4TW48 *
	120"	1¾"	4KYY3 *	4KYY4 *
Butcher Block Birch, Radius Edge	48"	1¾"	4KYY5	—
	60"	1¾"	4KYY6	—
	72"	1¾"	4KYY7	4KYY8
	96"	1¾"	4KYY9 *	4KYZ1 *
	120"	1¾"	4KYZ2 *	4KYZ3 *

WORKBENCH LEGS

Use with 30" or 36"D workbench tops. Prepunched for tops, stringer, and lower shelf. Double electrical knockouts, front and back, adaptable to standard 1⅞"W electrical box. Feet can be mounted to floor. Load rating based on evenly distributed loads. Sold in pairs. Gray powder-coated finish.


No. 5W681

Adjustable-Height Straight Legs
- 4000-lb. load rating per pair
- Adjustable in 1" increments
- Legs for 96" workbenches are available, see Grainger.com®

Heavy-Duty Flared Legs
- 6000-lb. load rating per pair
- Formed channel shape for extra strength

Description	W	D	H	Item No.
Workbench Legs				
Adjustable-Height Straight Legs, Pair	2¾"	30"	29" to 33"	5W681
	2¾"	36"	29" to 33"	5W682
Heavy-Duty Flared Legs, Pair	4¾"	30"	32"	4TW39
	4¾"	36"	32"	4TW40

**** 96" and 120"W workbench tops require 3 legs.***

Preconfigured Industrial Workbenches

GA GRAINGER APPROVED

Industrial workbench kits include workbench top, legs, and stringer. Gray powder-coated finish.

ACCESSORIES

Gray powder-coated finish.

Standard Shelf Risers—2"H back stop.

Electrical Shelf Risers—1½"H back stop. Knockouts provided for 4 duplex receptacles and switch; order workbench electric kit No. 4TW73 separately.

Stackable Drawer—Includes ball bearing rollers, knockout for cylinder key lock, and padlock hasp.

Note: Keylock is available separately. Order Part #101-1824.

Electric Wiring Kit—Includes 4 duplex outlets, circuit breaker switch with pilot light, and 8-ft. grounded cord and plug; 15A, 115V.



Description	D	H*	48" WIDTH Item No.	60" WIDTH Item No.	72" WIDTH Item No.	96" WIDTH Item No.
Preconfigured Flared-Leg Workbenches						
12-ga. Steel Top	30"	33¾"	—	7D178	7D179	—
	36"	33¾"	—	—	7D180	7DG17
Butcher Block Maple Top	30"	34"	7AN80	7D196	7D197	—
	36"	34"	—	—	7D198	7DG29
Plastic Laminate Top	30"	34"	7AN81	7D184	7D185	—
	36"	34"	—	—	7D186	7DG25
Shop Top	30"	33¾"	7AN82	7D190	7D191	—
	36"	33¾"	—	—	7D192	7DG21
Preconfigured Adjustable-Height-Leg Workbenches						
12-ga. Steel Top	30"	30½-34½"	—	7D175	7D176	—
	36"	30½-34½"	—	—	7D177	—
Butcher Block Maple Top	30"	30¾-34¾"	7AN84	7D193	7D194	—
	36"	30¾-34¾"	—	—	7D195	—
Plastic Laminate Top	30"	30¾-34¾"	7AN85	7D181	7D182	—
	36"	30¾-34¾"	—	—	7D183	—
Shop Top	30"	30½-34½"	7AN86	7D187	7D188	—
	36"	30½-34½"	—	—	7D189	—

**** Height from floor to top of work surface.***

Description	W	D	H	Item No.
Accessories				
Standard Shelf Riser	60"	10"	12"	5W672
	72"	10"	12"	5W673
Electrical Shelf Riser	60"	15"	18"	5W674
	72"	15"	18"	5W675
	96"	15"	18"	4TW58
Lower Shelf	60"	15"	2"	5W679
	72"	15"	2"	5W680
Side and Back Rail Kit	60"	30"	3"	5W676
	72"	30"	3"	5W677
	72"	36"	3"	5W678
	96"	30"	3"	4TW38
	96"	36"	3"	4TW67
Stackable Drawer	17¼"	20"	6⅝"	5W671
Wiring Kit	—	—	—	4TW73

ACCESSORIES

Standard Shelf Risers—1½" back stop. Electrical risers are available to add optional electrical outlets.

Lower Shelf—Adds extra work space and features a 1½" protective back stop.

Side and Back Rail Kits—16"-ga. steel rails bolt to workbench top and can be used with other bench accessories. Easy to install with standard tools.

Stackable Drawer—Features adjustable divider, pencil tray, and adjustable ball bearing slides. Includes padlock hasp; optional cam lock No. 2ZV23 available separately.

Stackable Drawer Cam Lock—Compatible with stackable drawer No. 1PB13. Includes 2 keys.

Electric Wiring Kit—Kit No. 1PB78 comes 90% preassembled with 4 duplex receptacles, On/Off switch with pilot light, circuit breaker, and 8-ft. grounded cord and plug.

Mobile Caster Kit—No. 2ZV22 can be used with 48", 60", and 72" Tennsco workbenches. 1000-lb. load rating. Recommend using a lower shelf for stability.

Description	W	D	H	Item No.
Accessories				
Standard Shelf Riser	48"	10½"	12"	4TKT2
	60"	10½"	12"	1PA95
	72"	10½"	12"	1PB70
	96"	10½"	12"	4TKT3
	60"	10½"	18"	1PA97
	72"	10½"	18"	1PA99
Electrical Shelf Riser	48"	15"	18"	4TKT4
	60"	15"	18"	1PB72
	72"	15"	18"	1PB74
	96"	15"	18"	4TKT6
Lower Shelf	48"	14"	1"	4TLK2
	60"	14"	1"	1PB76
	72"	14"	1"	1PB11
	96"	14"	1"	4TLK3
Side and Back Rail Kit	48"	30"	3"	4TKR8
	60"	30"	3"	1PA93
	72"	30"	3"	1PB64
	96"	30"	3"	4TKR9
	48"	36"	3"	19PA20
	60"	36"	3"	1PB66
	72"	36"	3"	1PB68
	96"	36"	3"	4TKT1
Stackable Drawer	15"	18"	8¼"	1PB13
Stackable Drawer Cam Lock	1"	2"	1"	2ZV23
Electric Wiring Kit	—	—	—	1PB78
Workbench Mobile Caster Kit	29"	—	6½"	2ZV22



Adjustable-Height Legs No. 1PA85

tennsco Storage Made Easy

Preconfigured Industrial Workbenches

Extra heavy-duty steel construction. All benches have legs with front and rear knockouts for 2" electrical boxes. 3" side and back stop keeps items from rolling off the workbench. Feature 14-ga. steel stringers with a deep profile. Medium-gray powder-coated finish. Steel tops have 2 intermediate reinforcement channels. Adjustable Leg workbenches adjust from 27⅞" to 35⅜" in 1½" increments.

Description	D	H*	48" WIDTH Item No.	60" WIDTH Item No.	72" WIDTH Item No.	96" WIDTH Item No.
Fixed-Leg Workbenches						
12-ga. Steel Top	30"	33½"	4TKN2	1PA89	1PA91	4TKN6
	36"	33½"	19PA14	1PA90	1PA92	4TKP1
Composition Top	30"	33¾"	4TKN5	1PB47	1PB52	4TKN9
	36"	33¾"	—	1PB50	1PB54	4TKP4
High-Pressure Plastic Laminate Top	30"	33½"	4TKN4	1PB33	1PB40	4TKN8
	36"	33½"	19PA15	1PB36	1PB44	4TKP3
Laminated Butcher Block Top	30"	33¾"	4TKN3	1PB56	1PB60	4TKN7
	36"	33¾"	19PA16	1PB58	1PB62	4TKP2
Adjustable-Leg Workbenches						
12-ga. Steel Top	30"	27⅞"–35⅜"	4TKP5	1PA81	1PA83	4TKP9
	36"	27⅞"–35⅜"	19PA17	1PA82	1PA84	4TKR4
Composition Top	30"	27⅞"–35⅜"	4TKP8	1PB23	1PB27	4TKR3
	36"	27⅞"–35⅜"	—	1PB25	1PB30	4TKR7
High-Pressure Plastic Laminate Top	30"	27⅞"–35⅜"	4TKP7	1PB15	1PB19	4TKR2
	36"	27⅞"–35⅜"	19PA18	1PB17	1PB21	4TKR6
Laminated Butcher Block Top	30"	27⅞"–35⅜"	4TKP6	1PA85	1PA87	4TKR1
	36"	27⅞"–35⅜"	19PA19	1PA86	1PA88	4TKR5

** Height from floor to top of work surface. Adjustable Leg workbenches adjust from 27⅞" to 35⅜".*

Industrial Adjustable-Height Workbenches and Accessories

edsal Premier BY EDSAL

- 14-ga. steel construction
- 5000-lb. load capacity, based on evenly distributed loads
- Prepunched dual leg braces to accommodate accessories
- Adjustable leg levelers for stabilization on uneven surfaces
- Powder-coated finish
- Shipped unassembled

ACCESSORIES

A. Dual Shelf Risers—Steel construction with 150-lb. load rating. 2" back stops keep items from falling off the back; lower shelf has dividers to keep supplies organized.

B. Back and End Stops—Extend 3" above the workbench top and keep items from falling off the sides and back. Rounded corners provide additional worker safety.

C. Lower Shelves—Choose 2 shelves to utilize the full capacity of bench legs. Each shelf adds 15" depth for extra parts storage. 150-lb. load rating.

D. Stackable Drawers—20-ga. steel drawer attaches under top and provides secure storage. Recessed handle and ball bearing rollers for smooth drawer operation. Stack multiple drawers to free floor space. Includes knockout for cylinder key lock (not included). 75-lb. load rating.

E. Adjustable Bench Legs—Each pair has 5000-lb. load capacity, based on evenly distributed loads. Height is adjustable in 1" increments.

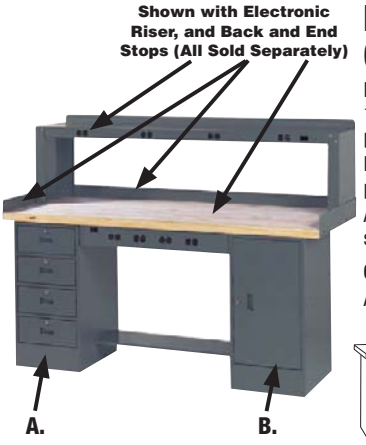


Butcher Block Top Workbench (Shown w/ Optional Accessories) No. 1PB26

Description	W	D	H*	BLUE Item No.	TAN Item No.
Preconfigured Workbenches					
12-ga. Steel Top	60"	30"	31½"-35½"	1PA94	1PA96
	72"	30"	31½"-35½"	1PB20	1PB22
	72"	36"	31½"-35½"	1PB43	1PB46
Butcher Block Maple Top	60"	30"	31¾"-35¾"	1PA98	1PB10
	72"	30"	31¾"-35¾"	1PB24	1PB26
	72"	36"	31¾"-35¾"	1PB49	1PB51
Plastic Laminate Top	60"	30"	31¾"-35¾"	1PB16	1PB18
	72"	30"	31¾"-35¾"	1PB35	1PB39
	72"	36"	31¾"-35¾"	1PB57	1PB59
Shop Top	60"	30"	31½"-35½"	1PB12	1PB14
	72"	30"	31½"-35½"	1PB29	1PB32
	72"	36"	31½"-35½"	1PB53	1PB55

Key	Description	W	D	H	BLUE Item No.	TAN Item No.
Accessories						
A	Dual Shelf Risers	60"	10"	12"	1PB91	1PB93
A	Dual Shelf Risers	72"	10"	12"	1PB95	1PB97
B	Back and End Stops	60"	30"	3"	1PB77	1PB79
B	Back and End Stops	72"	30"	3"	1PB80	1PB81
B	Back and End Stops	72"	36"	3"	1PB83	1PB85
C	Lower Shelves	60"	15"	2"	1PB69	1PB71
C	Lower Shelves	72"	15"	2"	1PB73	1PB75
D	Stackable Drawer	17"	20"	6½"	1PB87	—
D	Stackable Drawer	17"	20"	6"	—	1PB89
E	Adjustable Bench Legs, Pair	2¾"	36"	30" to 34"	1PB65	1PB67
E	Adjustable Bench Legs, Pair	2¾"	30"	30" to 34"	1PB61	1PB63

** Height from floor to top of work surface.*



Preconfigured Modular Workbenches, Components, and Accessories

edsal

Panel legs are box formed for maximum stability and 1-pc., all-welded pedestals provide extra rigidity. Gray powder-coated finish.

For more information regarding workbench tops, see page 1316.

Additional accessories, including risers and back and end stops, are also available separately on Grainger.com®.

COMPONENTS

All components have gray powder-coated finish.

4- and 3-Drawer Pedestals

Flush front has recessed handles and knockouts for cylinder locks (sold separately). Feature 75-lb. capacity drawers. Box drawers measure 13"W x 23"D x 5½"H inside clear. File drawer is 11¾"H.

1-Door Pedestal

Features right-swinging door and 1 adjustable shelf.

Panel Leg

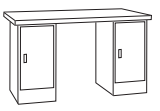
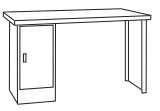
Feature sturdy box-formed legs.






Workbench/Table Surface Material	W	D	H	4 DRAWER/4 DRAWER Item No.	4 DRAWER/3 DRAWER Item No.	4 DRAWER/1 DOOR Item No.	4 DRAWER/1 PANEL LEG Item No.
Preconfigured Workbenches							
Butcher Block	60"	30"	34"	7D061	7D064	7D067	7D070
	72"	30"	34"	7D062	7D065	7D068	7D071
	96"	30"	34"	7D063	7D066	7D069	7D072
Shop Top	60"	30"	34"	7D088	7D091	7D094	7D097
	72"	30"	34"	7D089	7D092	7D095	7D098
Laminate	60"	30"	34"	7D115	7D118	7D121	7D124
	72"	30"	34"	7D116	7D119	7D122	7D125
Steel	60"	30"	34"	7D142	7D145	—	7D151
	72"	30"	34"	7D143	7D146	7D149	7D152
	96"	30"	34"	7D144	7D147	7D150	7D153



Workbench/ Table Surface Material	W	D	H	3 DRAWER/3 DRAWER Item No.	3 DRAWER/1 DOOR Item No.	3 DRAWER/1 PANEL LEG Item No.	1 DOOR/1 DOOR Item No.	1 DOOR/1 PANEL LEG Item No.
Preconfigured Workbenches								
Butcher Block	60"	30"	34"	7D073	7D076	7D079	7D082	7D085
	72"	30"	34"	7D074	7D077	7D080	7D083	7D086
	96"	30"	34"	7D075	7D078	7D081	7D084	7D087
Shop Top	60"	30"	34"	7D100	7D103	7D106	7D109	7D112
	72"	30"	34"	7D101	7D104	7D107	7D110	7D113
Laminate	60"	30"	34"	7D127	7D130	7D133	7D136	7D139
	72"	30"	34"	7D128	7D131	7D134	7D137	7D140
Steel	60"	30"	34"	7D154	7D157	7D160	7D163	—
	72"	30"	34"	7D155	7D158	7D161	7D164	7D167

Key	Description	W	D	H	Item No.
Components					
A	4-Drawer Pedestal	15¾"	24"	32"	4TW42
—	3-Drawer Pedestal	15¾"	24"	32"	4TW43
B	1-Door Pedestal	15¾"	24"	32"	4TW41
—	Workbench Panel Leg	3"	24"	32"	4TW84



Butcher Block Top with Single Pedestal



Gray Plastic Laminate Top with Double Pedestal and Riser Shelf

Preconfigured Industrial Workbenches

LISTA

- Drawer capacity: 165 lb., based on evenly distributed loads
- 100% drawer extension
- Back and end stops extend 3" above work surface to retain small items
- Bright blue powder-coated finish

Designed to maximize storage in the work area, while heavy-duty, steel construction provides durability in tough environments. Pedestals have ergonomically designed drawer handles located at the top of the drawer and are flush with pedestal front when drawer is closed for added safety. Drawers include preinstalled partitions with dividers. Pedestals have overall dimensions of 22$^{3}/_{16}$"W x 28½"D x 33½"H and come with a removable core lock for greater security and easy replacement. 2 keys included. Combination drawer/door pedestal features 1 drawer and hinged bottom door section with 1 fixed shelf. Drawer and door lock separately. 4 keys (keyed alike) included. Legs feature sturdy, 1-pc., all-welded construction with bottom hole for leveling glides (included). Feet have anchor holes for floor mounting. Models are also available with 13½"H x 10½"D steel riser shelf with 2"H back stop.

Description	D	H	No. of Compartments	No. of Drawers	WITHOUT RISER 60"W Item No.	WITHOUT RISER 72"W Item No.	WITH RISER 60"W Item No.	WITH RISER 72"W Item No.
Butcher Block Top								
2 Legs	30"	35¼"	—	—	2MNN7	2MNN8	2MNN9	2MNP1
Single Pedestal	30"	35¼"	53	5	2MNP2	2MNP3	2MNP4	2MNP5
Single Pedestal	30"	35¼"	4	1	2MNP6	2MNP7	2MNP8	2MNP9
Double Pedestal	30"	35¼"	57	6	—	2MNR1	—	2MNR2
Gray Plastic Laminate Top								
2 Legs	30"	35¼"	—	—	2MNR3	2MNR4	2MNR5	2MNR6
Single Pedestal	30"	35¼"	53	5	2MNR7	2MNR8	2MNR9	2MNT1
Single Pedestal	30"	35¼"	4	1	2MNT2	2MNT3	2MNT4	2MNT5
Double Pedestal	30"	35¼"	57	6	—	2MNT6	—	2MNT7

LISTA

Preconfigured Technical Workbenches

- Drawer capacity: 165 lb., based on evenly distributed loads
- 100% drawer extension
- Light gray plastic laminate top
- Powder-coated finish

For electronic testing and repair, assembly, and other technical applications. Drawers include dividers to customize space. Pedestals come with a removable core lock and 2 keys. Sturdy steel legs have anchor holes for floor mounting. Available with powered riser shelf that includes 6 outlets.



Description	D	H	No. of Drawers	WITHOUT RISER 60"W Item No.	WITHOUT RISER 72"W Item No.	WITH RISER 60"W Item No.	WITH RISER 72"W Item No.
Bright Blue Powder Coat							
2 Legs	30"	35¼"	—	2MNT8	2MNT9	2MNU1	2MNU2
Single Pedestal	30"	35¼"	3	2MNU3	2MNU4	2MNU5	2MNU6
Double Pedestal	30"	35¼"	7	2MNU7	2MNU8	2MNU9	2MNV1
Gray Powder Coat							
2 Legs	30"	35¼"	—	2MNV2	2MNV3	2MNV4	2MNV5
Single Pedestal	30"	35¼"	3	2MNV6	2MNV7	2MNV8	2MNV9
Double Pedestal	30"	35¼"	7	2MNW1	2MNW2	2MNW3	2MNW4



Pro-Line

Lab Workbenches

- 1000-lb. capacity, based on evenly distributed loads
- Light beige, powder-coated finish

Workbenches have a sturdy 4-leg design with 4" front, side, and back rails to support the work surface and allow operators to work on all 4 sides. Squared work surfaces allow units to be slid together with no gaps. Modular design allows optional accessories to easily bolt on. See this page for available accessories.

Chem-Guard®—Black chemical-resistant work surface is 1.250" thick.

Stainless Steel—Work surface is 16-ga. with 0.125" radius edges.

Epoxy Resin—Benches are black with 1" eased edges.

Workbench/ Table Surface Material	D	W	H	Item No.
Chem-Guard®	30"	60"	30"	1NXZ1
	30"	72"	30"	1NXZ4
Stainless Steel	30"	60"	30"	1NXY8
	30"	72"	30"	1NXZ2
Epoxy Resin	30"	60"	30"	1NXY9
	30"	72"	30"	1NXZ3





edsal

Commercial Adjustable-Height Workbenches

Ergonomic steel legs adjust from 28" to 33" in 1" increments to help reduce stress-related injuries. Double electrical knockouts enable electrical service to be wired without cutting holes in frame. Heavy-gauge welded steel frame supports load capacities to 200 lb. per sq. ft., based on evenly distributed loads. 12"-deep steel lower shelf adds lateral support. Shipped unassembled. Workbench drawer attaches to underside of all commercial benches and stock carts with included hardware. Gray powder-coated finish.

Width	Depth	Height*	Item No.
Compressed Wood Top			
48"	24"	29" to 34"	1W810
60"	24"	29" to 34"	1W811
72"	24"	29" to 34"	1W888
Hardboard/Compressed Wood Top			
48"	30"	29" to 34"	3W252
60"	30"	29" to 34"	1W890
72"	30"	29" to 34"	1W891
Under Bench Drawer			
12"	18"	4"	1W682

** Height from floor to top of work surface.*

Vidmar

Stand-Alone Workbench Pedestals and Accessories



- Drawer capacity: 400 lb., based on evenly distributed loads
- 100% drawer extension
- Dark blue powder-coated finish

Drawer pedestals offer superior storage efficiency and organization. Drawers feature adjustable partitions and dividers. Single key locking system locks all drawers at once. All-welded steel construction.

H	No. of Drawers	No. of Compartments	Item No.
Workbench Cabinet Pedestals			
33"	6	124	4KC80
33"	5	96	4KC82
33"	3	40	4KC84

Description	W	H	Item No.
Accessories			
Open Bench Leg	3"	33"	4KC67
Workbench Riser, Adjustable	72"	12 to 22"	4GE49
Workbench Riser, Powered	72"	15"	4GE50
Workbench Riser, Fixed	60"	14"	4KC65



Dyna-Lift®

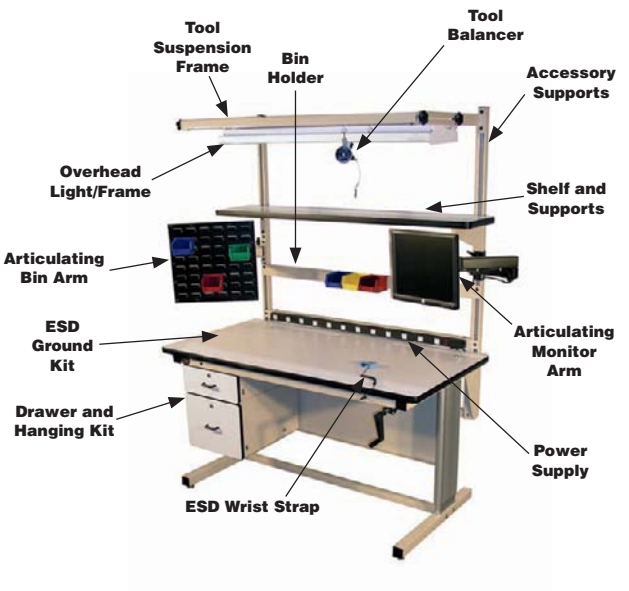
Hydraulic Lift Kits

- Aluminum construction
- 1000-lb. load capacity

Ergonomic systems quickly convert a stationary workbench or structure into a height-adjustable unit. Come fully charged; simply bolt the pump and leg cylinders onto the structure with the included mounting templates.

Adjustment Range	Item No.
Manual	
6"	16Y670
8"	16Y671
10"	16Y672
12"	16Y673
16"	16Y674

Adjustment Range	Item No.
Electric	
6"	16Y675
8"	16Y676
10"	16Y677
12"	16Y678
16"	16Y679



Basics Workbench (Shown w/Optional Accessories)



Adjustable-Height Workbenches and Accessories

Pro-Line

1¼"-thick work surface has durable "T" mold edges with rounded corners. Base station includes surface, frame, and leveling glides.

Pull-Pin—Top-grade construction features 16-ga. 2"-square legs, 2"-thick front, and 8"-thick back rails.

Hand-Crank—Hand crank safely and easily folds out of the way. 20" steel modesty panel provides lateral support.

Electric—Adjust to any height between 30½" and 46½". 3-position memory allows workers to preset and access their own height preferences. Assemble workstations with standard tools. 120V.

D	W	H	Load Cap.**	▶CHOOSE: Color	ESD LAMINATE TOP Item No.	LAMINATE TOP Item No.
Pull-Pin						
30"	60"	30" to 36"	5000 lb.	Beige, Blue, Gray	G3655	G3656
36"					G3657	G3658
30"	72"				G3659	G3660
36"					G3661	G3662
Hand Crank						
30"	60"	30" to 42"	750 lb.	Beige, Blue, Gray	G3663	G3664
			330 lb.		G3667	G3668
	72"		750 lb.		G3665	G3666
			330 lb.		G3669	G3670
Electric						
30"	60"	30½" to 46½"	1000 lb.	Beige, Blue, Gray	G3671	G3672
	72"				G3673	G3674

Description	Fits Workstations	Item No.	
Optional Modular Accessories			
Accessory Supports, Extend 48" Above Surface (Sold in Pairs)	60" and 72"	4UJ66	
Drawer, 6H" x 15W" x 19¼"L	60" and 72"	4UJ60	*
Drawer, 12H" x 15W" x 19¼"L	60" and 72"	4UJ59	*
Drawer Hanging Kit (1 per Bench)	60" and 72"	4UJ55	
ESD Ground Kit (ESD Station Only)	60" and 72"	4UJ63	
ESD Wrist Strap (ESD Station Only)	60" and 72"	4UJ64	
Articulating Bin Arm (17" x 18")	60" and 72"	4UJ43	†
Articulating Monitor Arm (14" x 14") with Keyboard Tray	60" and 72"	4UJ58	†
Tool Balancer (For Tools up to 5 lb., Mounts to Nos. 4UJ56 or 4UJ57)	60" and 72"	4UJ65	
Overhead Light/Frame	60"	4UJ61	†
Overhead Light/Frame	72"	4UJ62	†
12" Laminate Shelf and Supports	60"	4UJ47	†
12" Laminate Shelf and Supports	72"	4UJ48	†
Bin Holder (Bins Sold Separately)	60"	4UJ45	†
Bin Holder (Bins Sold Separately)	72"	4UJ46	†
Power Supply (8 Outlets, 120V, 15 Amp) and Mounting Rail	60"	4UJ54	†
Power Supply (8 Outlets, 120V, 15 Amp) and Mounting Rail	72"	4UJ49	†
Tool Suspension Frame (Mounts to No. 4UJ61. Includes 2 Trolleys)	60"	4UJ56	†
Tool Suspension Frame (Mounts to No. 4UJ62. Includes 2 Trolleys)	72"	4UJ57	†
Foot Rest	60"	1UG98	
Foot Rest	72"	1UG99	

When mounting initial drawer to bottom of bench top, purchase No. 4UJ55 Drawer Hanging Kit.

****Based on evenly distributed loads. † Require Accessory Supports No. 4UJ66; order separately.***

Adjustable-Height Steel Cantilever Workbenches

Pro-Line

- Load capacity: 750 lb., based on evenly distributed loads
- 1⅝"-thick steel construction and uprights
- Dark blue powder-coated finish

The modular design allows custom workbench configuration. Nonmarking HDPE glides protect floors and make moving unit easy. Standard Grounding Kit No. 2MXJ3 includes 2 banana jacks and a mounting bracket.

Starter units with add-on units enable workspace customization. Steel frame-supported work surface is pull pin adjustable (independent of frame) from 30" to 36"H. Frames are 65"H.

Starter Units—Include work surface, frame, 2 top supports, and 2 horizontal leg supports.

Add-On Units—Include work surface, frame, 1 top support, and 1 horizontal leg support.

For ESD laminate surfaces; use Standard Optional Ground Kit No. 2MXJ3 and Wrist Strap No. 2WXT8, sold separately, to help protect static-sensitive electronics.

Workbench/ Work Table Type	D	W	H	PLASTIC LAMINATE TOP Item No.	ESD LAMINATE TOP Item No.
Workbenches					
Starter	30"	60"	30" to 36"	2WXP9	2WXR1
Add-On	30"	60"	30" to 36"	2WXR2	2WXR3
Starter	30"	72"	30" to 36"	2WXR4	2WXR5
Add-On	30"	72"	30" to 36"	2WXR6	2WXR7

Description	Fits Workbenches	W	H	D	Item No.
Accessories					
Overhead Light/Frame	60"	60"	24"	24"	2WXR8
	72"	72"	24"	24"	2WXR9
Metal Cantilever Shelf	60"	60"	4"	12"	2WXT1
	72"	72"	4"	12"	2WXT2
Bin Rail	60"	60"	5"	1½"	2WXT3
	72"	72"	5"	1½"	2WXT4
Electrical Supply Mounting Rail	60"	60"	1¾"	1½"	2WXT5
	72"	72"	1¾"	1½"	2WXT6
Power Strip, 120V, 12 Outlets	60" and 72"	49"	1½"	1½"	2WXT7
Modular Workbench Drawer	60" and 72"	15"	6"	19¼"	2UMT4
Standard Grounding Kit	60" and 72"	6"	3"	8"	2MXJ3

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

GRAINGER APPROVED

Adjustable-Height Workbenches and Accessories

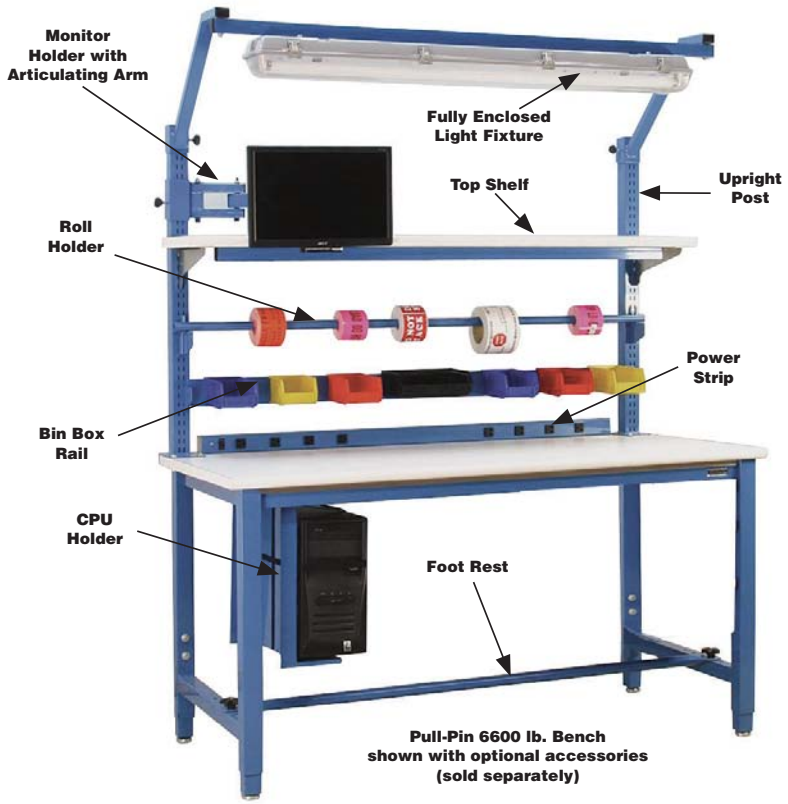
- Chemical- and corrosion-resistant powder-coated finish
- Easy to assemble
- 25-yr. warranty

When ordering Upper Shelf, Light Fixture, Bin Rail, Roll Holder, Articulating Monitor Arm, or Pegboard, Upright Post must be ordered additionally. Tool Balancers include one Tool Balancer Trolley, for additional Trolley, order No. 12V569.

Workbench with Electric Hydraulic Lift and Hand Crank—1000-lb. capacity workbenches include a heavy-duty leveling glide. Adjust up to 12" in height with either a hand crank or electric hydraulic lift. Legs are constructed with ¼"-thick diagonally welded steel tubing.

Pull-Pin—1600-lb. capacity workbenches are height-adjustable from 30" to 36"H with 13-ga. steel construction. 6600-lb. capacity workbenches provide a sturdy work surface and feature stainless steel trim and ergonomically contoured top.

Fixed Leg—20,000-lb. capacity workbenches feature heavy 3" square legs.



Pull-Pin 6600 lb. Bench shown with optional accessories (sold separately)

W	D	▶CHOOSE: Color	FORMICA™ PLASTIC LAMINATE TOP Item No.	LISSTAT™ STATIC CONTROL LAMINATE TOP Item No.	OILED BUTCHER BLOCK TOP Item No.	GRADE 304 STAINLESS STEEL TOP Item No.
Workbench with Electric Hydraulic Lift, 1000 lb. Capacity						
48"	30"	Blue	13E274	13E281	13E288	13E295
60"	30"	Blue	13E275	13E282	13E289	13E296
60"	36"	Blue	13E278	13E285	13E292	13E299
72"	30"	Blue	13E276	13E283	13E290	13E297
72"	36"	Blue	13E279	13E286	13E293	13E301
96"	30"	Blue	13E277	13E284	13E291	13E298
96"	36"	Blue	13E280	13E287	13E294	13E302
Workbench with Hand Crank, 1000 lb. Capacity						
48"	30"	Blue	13E246	13E253	13E260	13E267
60"	30"	Blue	13E247	13E254	13E261	13E268
60"	36"	Blue	13E250	13E257	13E264	13E271
72"	30"	Blue	13E248	13E255	13E262	13E269
72"	36"	Blue	13E251	13E258	13E265	13E272
96"	30"	Blue	13E249	13E256	13E263	13E270
96"	36"	Blue	13E252	13E259	13E266	13E273
Pull-Pin Height-Adjustable Bench, 1600 lb. Capacity						
60"	24"	Gray	16Y073	16Y089	16Y097	16Y106
60"	30"	Gray	16Y074	16Y090	16Y098	16Y107
72"	30"	Gray	16Y075	16Y091	16Y099	16Y108
72"	36"	Gray	16Y078	16Y094	16Y103	16Y111
96"	30"	Gray	16Y076	16Y092	16Y101	16Y109
96"	36"	Gray	16Y079	16Y095	16Y104	16Y112
117"	36"	Gray	—	—	—	16Y113
117"	30"	Gray	—	—	—	16Y110
120"	30"	Gray	16Y077	16Y093	16Y102	—
120"	36"	Gray	16Y080	16Y096	16Y105	—
Pull-Pin Height-Adjustable Bench, 6600 lb. Capacity						
48"	30"	Blue	13E303	13E312	13E321	13E330
60"	30"	Blue	13E304	13E313	13E322	13E331
60"	36"	Blue	13E308	13E317	13E326	13E335
72"	30"	Blue	13E305	13E314	13E323	13E332
72"	36"	Blue	13E309	13E318	13E327	13E336
96"	30"	Blue	13E306	13E315	13E324	13E333
96"	36"	Blue	13E310	13E319	13E328	13E337
120"	30"	Blue	13E307	13E316	13E325	13E334
120"	36"	Blue	13E311	13E320	13E329	13E338
Fixed Leg, 20,000 lb. Capacity						
60"	30"	Black, Gray	G4814	G4823	G4805	G4796
60"	36"	Black, Gray	G4818	G4827	G4809	G4800
72"	30"	Black, Gray	G4815	G4824	G4806	G4797
72"	36"	Black, Gray	G4819	G4828	G4810	G4801

W	D	FORMICA™ PLASTIC LAMINATE Item No.	LISSTAT™ STATIC CONTROL LAMINATE Item No.	OILED BUTCHER BLOCK Item No.	GRADE 304 STAINLESS STEEL Item No.
Upper Shelf*					
60"	12"	12V547	12V552	12V557	12V562
72"	12"	12V548	12V553	12V558	12V563

Description	W	D	H	Item No.
Light Fixtures				
Fully Enclosed Light Fixture	24"	4"	4"	12V566 *
Fully Enclosed Light Fixture	48"	4"	4"	12V567 *

Description	W	D	H	▶CHOOSE: Color	Item No.		Pkg. Qty.
Accessories							
36" Upright Post	2"	2"	36"	Blue, Gray, Black	H6350		1
	2"	2"	36"		H6352		3
	2"	6"	36"		G4834		1
	2"	10"	36"		G4836		3
48" Upright Post	2"	2"	48"		H6351		1
	2"	2"	48"		H6353		3
	2"	6"	48"		G4835		1
	2"	10"	48"		G4837		3
Pull-Pin Leg Extender	6"	6"	8"		G4838		4
Drawer with Soft Closing Feature	14½"	20"	2"		G4839		1
	14½"	20"	4"		G4840		1
	14½"	20"	6"		G4841		1
	14½"	20"	12"		G4842		1
Power Strip, 8 Outlets, 15A	42"	4"	2"		G4843		1
	54"	4"	2"		G4844		1
	66"	4"	2"		G4845		1
	90"	4"	2"		G4846		1
	114"	4"	2"		G4847		1
Foot Rest	60"	4"	4"		G4849		1
	72"	4"	4"		G4850		1
Bin Rail	60"	1½"	4"		G4854	*	1
	72"	1½"	4"		G4855	*	1
Roll Holder	60"	4"	4"		G4859	*	1
	72"	4"	4"		G4860	*	1
CPU Holder	17"	17"	17"		G4862		1
Articulating Monitor Arm	4"	8"	18"		G4863	*	1
Pegboard Backwall	60"	2"	14"		G4865	*	1
	72"	2"	14"		G4866	*	1
Task Light Frame, 45°	60"	8"	10"		G4868		1
	72"	8"	10"		G4869		1
Task Light Frame, 90°	60"	8"	6"		G4873		1
	72"	8"	6"		G4874		1
Tool Balancer	60"	8"	6"		G4878	†	1
	72"	8"	6"		G4879	†	1
Metal Keyboard Tray with Tilt	21"	—	4"	Black	33HY60		1
Tool Trolley	3"	3½"	3"	Silver	12V569		1

** When ordering Upper Shelf, Light Fixture, Bin Rail, Roll Holder, Articulating Monitor Arm, or Pegboard, Upright Post must be ordered additionally.*
† Tool Balancer includes one Tool Balancer Trolley, for additional Trolley, order No. 12V569.



No. 16A210



No. 4KZE9

Strong Hold

All-Welded Steel Workbenches with Drawers



No. 2RNG2

All workbenches feature a 7-ga. steel top.

Nos. 2RNG2 and 2RNG3 feature a bottom shelf.

Nos. 2RNG9 and 2RNH1 feature locking drawers with key locks and a bottom shelf.

W	D	H	Load Cap.*	Item No.
Standard with 2 Drawers				
48"	30"	34"	5500 lb.	**2RNG2**
60"	36"	34"	8250 lb.	**2RNG3**
Standard with 4 Locking Drawers				
48"	30"	34"	5500 lb.	**2RNG9**
60"	36"	34"	8250 lb.	**2RNH1**

** Based on evenly distributed loads.*



Bench-in-a-Box
No. 16D756



Technician Station (Comes with all Accessories as Shown)
No. 2WXU1

Strong Hold | edsal | DURHAM MFG Est. 1922 | Jamco Products

All-Welded Steel Workbenches and Work Tables

Gray enamel powder-coated finish.

Strong Hold®—Workbenches have 2" x 2" x ¼" steel angle legs and 7-ga. steel top.

Edsal—Heavy-duty, 12-ga. work surface. Welded 1½" x 1½" x 3⁄16" steel angle legs with pre-drilled footplates for floor mounting. 500-lb. capacity lower shelf with 3" rear lip. Ship assembled.

Durham®—12-ga. lower shelf withstands tough environments; 500-lb. shelf capacity. Rust- and corrosion-resistant finish. Ship fully assembled.

Jamco—Standard Workbenches feature rugged 12 ga. steel top. Include 2" square tubular corner construction with floor pads, lower shelf, half shelf, and 4" back support. Standard Work Tables have flush tops and 3" x 3" x 3⁄16" angle corner posts.

W	D	H	Load Cap.*	Item No.
Standard Workbenches				
Strong Hold				
30"	24"	34"	2750 lb.	**2RNF3**
Edsal				
48"	30"	36"	3000 lb.	**4KZE9**
60"	30"	36"	3000 lb.	**4KZF1**
72"	30"	36"	3000 lb.	**4KZF2**
72"	36"	36"	3000 lb.	**4KZF3**
Durham mfg				
48"	30"	34¼"	12,000 lb.	**1PE52**
48"	36"	34"	14,000 lb.	**4NUR2**
60"	36"	34"	14,000 lb.	**4NUR3**
60"	36"	34"	12,000 lb.	**4NUR1**
72"	36"	34"	12,000 lb.	**1PE53**
72"	36"	34"	14,000 lb.	**4NUR4**
Jamco				
48"	24"	34"	3000 lb.	**16A210**
60"	30"	34"	3000 lb.	**16A212**
72"	30"	34"	3000 lb.	**16A213**
72"	36"	34"	3000 lb.	**16A215**
Standard Work Tables				
Jamco				
48"	36"	34"	8000 lb.	**9MKU9**
60"	36"	34"	4000 lb.	**16A255**
60"	36"	34"	8000 lb.	**9WDK8**
60"	36"	34"	12,000 lb.	**16A217**
60"	36"	34"	16,000 lb.	**9KHD7**
72"	36"	34"	4000 lb.	**16A256**
72"	36"	34"	12,000 lb.	**16A218**
72"	36"	34"	16,000 lb.	**8A069**
Standard Adjustable Workbenches				
Strong Hold				
30"	24"	30" to 40"	2750 lb.	**2RNF7**

** Based on evenly distributed loads.*

PROLINE

Adjustable-Height Electronic Workbenches

No. 16D756—Includes lower shelf with dividers, storage shelf with 4" clearance, 60"H uprights, paper spool holder, overhead light, corrugated storage shelf, and bin holder. Also has 120V, 15A power supply. Light gray painted frame.

No. 16D761—Includes 2 lockable drawers, 1 padlock drawer, riser with built-in outlets, footrest, and 90° rolled front edge.

Technician Station Heavy-Duty Workbenches—Include 2 modular drawers with laminate face, personal padlock drawer with hanging kit, riser with 6 prewired outlets, and a 90° rolled front edge. ESD laminate benches include a ESD work and shelf surfaces, and a standard ground kit with 2 banana jacks.

D	W	H	Load Capacity	Color	Item No.
Bench-in-a-Box					
ESD Laminate					
30"	72"	30" to 36"	750 lb.	Gray	**16D756**
30"	72"	30" to 36"	5000 lb.	Blue	**16D761**
Technician Station Heavy-Duty Workbenches					
Laminate					
30"	72"	30" to 36"	5000 lb.	White	**2MNN3**
36"	72"	30" to 36"	5000 lb.	White	**2MNN5**
ESD Laminate					
30"	60"	30" to 36"	5000 lb.	White	**2WXU1**
30"	72"	30" to 36"	5000 lb.	White	**2MNN4**
36"	60"	30" to 36"	5000 lb.	White	**2MNN2**
36"	72"	30" to 36"	5000 lb.	White	**2MNN6**



No. 16A237

All-Welded Steel Workbenches with ½ Riser

Rugged, 12-ga. steel shelves. 2" square tubular corner construction with floor pads. Top shelf has a lip on 3 sides, and lower shelf has a 4" back support. Height with riser is 48".

W	D	H*	Load Cap.†	Item No.
48"	24"	34"	3000 lb.	**16A237**
60"	24"	34"	3000 lb.	**16A238**
60"	30"	34"	3000 lb.	**16A239**
72"	30"	34"	3000 lb.	**16A240**
72"	36"	34"	3000 lb.	**16A242**

** Work surface height. † Based on evenly distributed loads.*



No. 16A315

Stainless Steel Work Tables

All-welded steel construction with 16-ga. polished shelves and 1½" corner angles. Flush shelves have a 20" clearance between them. Shelf height: 30". Include prepunched mounting pads.

Includes	W	D	H	Load Cap.*	Item No.
Top, Legs, Lower Shelf	24"	18"	30"	1200 lb.	**16A315**
	30"	18"	30"	1200 lb.	**8VYH1**
	36"	24"	30"	1200 lb.	**8PGF2**
	48"	24"	30"	1200 lb.	**8DPR6**

** Based on evenly distributed loads.*



Worktable w/ Backsplash and Undershelf



Flat Top w/ Tubular Base



Flat Top w/Galvanized Undershelf

GA GRAINGER APPROVED

Stainless Steel and Steel Worktables

Easily assembled worktables and utility stands feature stainless steel tops with stainless steel or heavy-duty 16-ga. galvanized legs and undershelf. Rolled edges on front and rear, 90° turned down ends allow additional tables to be placed flush to end. 600-lb. capacity, based on evenly distributed loads. All models are compatible with Caster Kit No. 2KRE5. Gray color. NSF approved.

Description	Type	W (in.)	Load Rating (lb.)*	Item No.
Accessories				
Worktable Caster Kit	4" dia.	1	200	**2KRE5**

** Based on evenly distributed loads.*

Includes	D	H	24" WIDE Item No.	30" WIDE Item No.	36" WIDE Item No.	48" WIDE Item No.	60" WIDE Item No.	72" WIDE Item No.
Worktables, All Stainless Steel								
Backsplash and Undershelf	30"	34½"	—	—	—	**4UEJ9**	**4UEK1**	**4UEK2**
Flat Top and Tubular Base	30"	34½"	—	—	—	**4UEJ3**	**4UEJ4**	**4UEJ5**
Flat Top and Undershelf	30"	34½"	—	—	—	**4UEJ6**	**4UEJ7**	**4UEJ8**
Worktables, Stainless Steel Top								
Backsplash and Galvanized Undershelf	30"	34½"	—	—	—	**2KRD6**	—	**2KRD7**
Flat Top and Galvanized Tubular Base	30"	34½"	—	—	—	**2KRE1**	**4UEK3**	**2KRE2**
Flat Top and Galvanized Undershelf	24"	24"	**2KRE3**	—	—	—	—	—
	24"	34½"	**2KRE6**	—	—	**2KRE7**	—	**2KRE8**
	30"	24"	—	**2KRE4**	**4UEL2**	—	—	—
	30"	34½"	—	—	—	**2KRD8**	**4UEK4**	**2KRD9**

All Steel Workbenches with Stainless Steel Tops

StrongHold

All-welded workbenches with 7-ga. top and 12-ga. bottom shelf are designed to withstand heavy manufacturing, assembly, and maintenance work. Legs are 2" x 2" x ¼" steel angle. Models are available with drawers that are 14-ga. steel and have a 400-lb. capacity, based on evenly distributed loads. Adjustable-Leg models adjust from 30" to 40"H. Ship fully assembled.

Includes	W	D	H	Load Cap.*	Item No.
Fixed-Leg					
Top, Legs and Lower Shelf	30"	24"	34"	2750 lb.	**4NWD1**
	48"	30"	34"	5500 lb.	**4NWD2**
	60"	36"	34"	8250 lb.	**4NWD3**
	72"	36"	34"	10,000 lb.	**4NWD4**
Top, Legs, Lower Shelf, and 2 Drawers	60"	36"	34"	8250 lb.	**4NWE9**
	72"	36"	34"	10,000 lb.	**4NWF1**
Top, Legs, Lower Shelf, Riser Shelf and 6 Drawers	72"	36"	46"	10,000 lb.	**4NWH2**
Top, Legs, Lower Shelf, 4 Locking Drawers and 4 Keys	48"	30"	34"	5500 lb.	**4NWH9**
	60"	36"	34"	8250 lb.	**4NWJ1**
	72"	36"	34"	10,000 lb.	**4NWJ2**
Adjustable-Leg					
Top, Legs and Lower Shelf	30"	24"	30" to 40"	2750 lb.	**4NWK3**
	72"	36"	30" to 40"	10,000 lb.	**4NWK6**

** Based on evenly distributed loads.*



No. 4NWD4



No. 4NWH2


No. 22NE51


No. 4GHP7


No. 22ND72

DURHAM MFG Est. 1922 | Jamco carts | edsal

Work/Machine Tables

Durham®—Ideal as a workspace for machines and other items that require a sturdy table with a high load rating.

Jamco—Heavy-duty tables are all-welded construction with durable, flush-mounted, 12-ga. shelves. 1½" x 3⁄16"-thick angle corner posts.

Edsal—Durable, 12-ga. work surface and lower shelf. 60"W models have a tray-style lower shelf with retaining lips to help keep items secure. Feature reinforced steel braces and thick angle iron legs with predrilled footplates for floor mounting. Ship assembled.

W	D	H	Load Capacity	Item No.
No Shelf				
Durham Mfg				
24"	18"	18"	2000 lb.	**22ND70**
	18"	24"	2000 lb.	**22ND74**
	18"	30"	2000 lb.	**22ND76**
	18"	36"	2000 lb.	**22ND78**
	18"	42"	2000 lb.	**22ND80**
36"	24"	18"	2000 lb.	**22ND82**
	24"	24"	2000 lb.	**22ND84**
	24"	30"	2000 lb.	**22ND88**
	24"	36"	2000 lb.	**22ND90**
	24"	42"	2000 lb.	**22ND92**
48"	24"	18"	2000 lb.	**22ND94**
	24"	24"	2000 lb.	**22ND96**
	24"	30"	2000 lb.	**22ND99**
	24"	36"	2000 lb.	**22NE02**
	24"	42"	2000 lb.	**22NE05**
	36"	24"	14,000 lb.	**22NE51**
	36"	30"	14,000 lb.	**22NE52**
	36"	34"	14,000 lb.	**22NE53**
60"	36"	24"	14,000 lb.	**22NE54**
	36"	30"	14,000 lb.	**22NE55**
	36"	34"	14,000 lb.	**22NE56**
72"	36"	24"	14,000 lb.	**22NE57**
	36"	30"	14,000 lb.	**22NE58**
	36"	34"	14,000 lb.	**22NE59**
2-Shelf				
Jamco				
24"	18"	32"	2000 lb.	**16A287**
	24"	32"	2000 lb.	**16A291**
30"	18"	32"	2000 lb.	**16A288**
36"	18"	32"	2000 lb.	**16A289**
	24"	32"	2000 lb.	**16A293**
48"	24"	32"	2000 lb.	**16A294**
60"	30"	32"	2000 lb.	**16A298**
Durham Mfg				
36"	18"	30"	2000 lb.	**22ND72**
	24"	30"	2000 lb.	**22ND87**

W	D	H	Load Capacity	Item No.
1-Shelf				
Jamco				
24"	18"	30"	2000 lb.	**9R530**
	24"	30"	2000 lb.	**8DRG2**
30"	18"	30"	2000 lb.	**8VZZ4**
	24"	30"	2000 lb.	**16A274**
36"	18"	30"	2000 lb.	**8RP01**
	24"	30"	2000 lb.	**8RHF1**
	30"	30"	2000 lb.	**16A277**
48"	24"	30"	2000 lb.	**8DUK7**
60"	30"	30"	2000 lb.	**16A279**
Durham Mfg				
36"	18"	30"	2000 lb.	**22ND71**
	24"	30"	2000 lb.	**22ND86**
48"	24"	30"	2000 lb.	**22ND98**
	24"	36"	2000 lb.	**22NE04**
	30"	36"	3000 lb.	**22NE08**
	36"	36"	3000 lb.	**22NE09**
60"	24"	30"	2000 lb.	**22NE07**
72"	36"	36"	3000 lb.	**22NE10**
Edsal				
36"	18"	30"	2000 lb.	**4GHP7**
	24"	30"	2000 lb.	**4GHP8**
48"	18"	30"	2000 lb.	**4GHP9**
	24"	30"	2000 lb.	**4GHR1**
60"	24"	32"	2000 lb.	**4GHR2**
	30"	32"	2000 lb.	**4GHR3**
1-Drawer				
Durham Mfg				
24"	18"	18"	2000 lb.	**22ND73**
	18"	24"	2000 lb.	**22ND75**
	18"	30"	2000 lb.	**22ND77**
	18"	36"	2000 lb.	**22ND79**
	18"	42"	2000 lb.	**22ND81**
36"	24"	18"	2000 lb.	**22ND83**
	24"	24"	2000 lb.	**22ND85**
	24"	30"	2000 lb.	**22ND89**
	24"	36"	2000 lb.	**22ND91**
	24"	42"	2000 lb.	**22ND93**
48"	24"	18"	2000 lb.	**22ND95**
	24"	24"	2000 lb.	**22ND97**
	24"	30"	2000 lb.	**22NE01**
	24"	36"	2000 lb.	**22NE03**
	24"	42"	2000 lb.	**22NE06**


No. 1W973

edsal

Adjustable-Height Steel Work/Machine Tables

- Gray powder-coated finish
- Load capacity: 1500 lb., based on evenly distributed loads
- Ship unassembled

Ideal for use with drill presses, arbor presses, lathes, and benchtop sanders/grinders; provide additional work and storage space. Leg flange on bottom prevents floor surface from being cut. Sturdy, 16-ga. steel top shelf. Full-depth lower shelf provides additional storage and added rigidity.

W	D	H	Item No.
24"	18"	18" to 24"	**4GHW9**
	18"	30" to 36"	**1W973**
30"	24"	18" to 24"	**4GHP3**
	24"	30" to 36"	**4GHP5**
36"	24"	18" to 24"	**4GHX1**
	24"	30" to 36"	**1W975**
48"	24"	18" to 24"	**4GHP4**
	24"	30" to 36"	**4GHP6**



No. 4UEN4

GA GRAINGER APPROVED

Work Surface System

System creates a customized workstation suited for specific requirements which can be adjusted as needs change. Constructed of 16-ga., 304 brushed stainless steel with chrome base. All models, except accessories, are NSF Approved.

WORKTABLES

Worktables have four 33" posts.

WORKTABLES WITH CANTILEVERED OVERHEAD SYSTEM

Come with two 33" front posts, two 63" rear posts, and 2 overhead shelves. Order additional cantilever shelves separately.

Description	D	H	Load Capacity	48" WIDE Item No.	60" WIDE Item No.
Worktables					
2 C-Frame Bases	30"	34½"	600 lb.	4UEL3	4UEL4
1 C-Frame Base and 1 Wire Shelf	30"	34½"	600 lb.	4UEL5	4UEL6
2 Wire Shelves	30"	34½"	600 lb.	4UEL7	4UEL8
1 H-Frame Base and 1 Wire Shelf	30"	34½"	600 lb.	4UEL9	4UEN1
Worktables with Cantilevered Overhead System					
2 C-Frame Bases	30"	63"	600 lb.	4UEN2	4UEN3
1 C-Frame Base and 1 Wire Shelf	30"	63"	600 lb.	4UEN4	4UEN5



No. 5HZP8



No. 5HZR2

StrongHold

Workbench Cabinets

12-ga. steel cabinets come fully assembled. Units are lockable with a 3-pt. locking system that accommodates a padlock (not included). Benches with drawers have a weight capacity of 400 lb. per drawer, based on evenly distributed loads.

Top Material	W	D	H	Item No.
Multi-Compartments				
Butcher Block	48"	36"	37"	5HZP1
	50"	30"	34"	5HZP7 *
	60"	36"	37"	5HZP2
	72"	36"	37"	5HZP3
	84"	36"	37"	5HZP4
	96"	36"	37"	5HZP5
	108"	36"	37"	5HZP6
Steel	84"	30"	34"	5HZN8
	96"	30"	34"	5HZN9
	108"	30"	34"	5HZP0
With 12"H Riser				
Steel	60"	30"	46"	5HZP8
	72"	30"	46"	5HZP9
With 2 Upper Compartments				
Steel	72"	30"	62"	5HZR0
	84"	30"	62"	5HZR1
Bi-Fold Doors, 1-Shelf				
Butcher Block	48"	36"	37"	10A010
	72"	36"	37"	10A011
	84"	36"	37"	10A012
With Pegboard, 12 Bins and Outlet Strip				
Steel	72"	30"	72"	5HZR2

** Includes 2 drawers.*



No. 1PB34

DURHAM MFG Est. 1922

Adjustable-Height Folding-Leg Steel Workbench

- 2000-lb. capacity, based on evenly distributed loads
- Gray powder-coated finish is acid- and rust-resistant

Sturdy workbenches have hinged legs that fold away for simple, convenient storage. All-steel welded construction. Work surface height adjusts in 1" increments.

W	D	H	STEEL Item No.	PARTICLEBOARD Item No.
60"	30"	28" to 42"	4NUR5	—
72"	30"	28" to 42"	1PB34	4NUR9
	36"	28" to 42"	1PB28	1PB45
96"	30"	28" to 42"	1PB37	4NUU1
	36"	28" to 42"	1PB31	1PB48
	48"	28" to 42"	4NUR7	4NUU3
120"	30"	28" to 42"	—	4NUR8
	36"	28" to 42"	4NUR6	—
	48"	28" to 42"	1PB41	4NUU2



No. 34AU98



No. 34AU94



No. 34AW20

LITTLE GIANT

Cabinet Workbenches

- Heavy-duty, all-welded steel construction
- Powder-coated steel worksurface
- Choose butcher block or hardboard top on cabinet with shelf

All cabinets with drawers and no shelves have a fixed 34"H and locking handles. Cabinets with single shelf have an adjustable height and leg levelers.

Top Material	W	D	H	Cabinet Door Type	Item No.
Cabinet Benches without Shelves					
Steel	48"	30"	34"	Standard	34AW12
	60"	30"	34"	Standard	34AW13
	72"	30"	34"	Standard	34AW14
	72"	36"	34"	Standard	34AW15
Cabinet Benches with 1 Shelf					
Butcher Block	48"	24"	41" to 44"	Standard	34AU94
	48"	24"	41" to 44"	Ventilated	34AU97
Hardboard	48"	24"	41" to 44"	Standard	34AU95
	48"	24"	41" to 44"	Ventilated	34AU98
Cabinet Benches with 1 Drawer					
Steel	48"	30"	34"	Standard	34AW16
	60"	30"	34"	Standard	34AW17
	72"	30"	34"	Standard	34AW18
	72"	36"	34"	Standard	34AW19
Cabinet Benches with 2 Drawers					
Steel	72"	30"	34"	Standard	34AW20
	72"	36"	34"	Standard	34AW21



GA GRAINGER APPROVED

Steel Workstand

Sturdy workstand tilts from 10° to 35° and can hold up to 100 lb. Height adjusts from 56" to 64".

Lip Height	W	D	Item No.
5/16"	23"	23½"	49JK63



No. 1W814



No. 1W703



No. 1UBK8



No. 6RHH8



No. 7D223

GA GRAINGER APPROVED

Closed Service Writer

- Locking drawer with recessed pull
- Durable powder-coated finish

10° sloped writing surface. Locking lower door compartment includes 1 shelf; top and bottom sections are fully welded. Shipped partially assembled.

Overall Dim. W	D	H	Color	Item No.
31½"	21"	72½"	Gray	7D223



No. 39FT06

tennsco Storage Made Easy

Open Shelving

Freestanding shelving built with premium-quality steel. Shelves are easy to adjust in 2" increments without tools. Integrated tabs secure shelves tightly. Back is ventilated with punched lances.

Overall Depth	Overall Width	Overall Height	Shelf Cap.	Color	Item No.
24"	36"	42"	200 lb.	Light Gray	39FT06
				Medium Gray	39FT07

GA GRAINGER APPROVED DURHAM MFG Est. 1922

Table Cabinets

GA—Cylinder locks are built into the T-handle on the door (keyed differently). Gray powder-coated finish; shipped unassembled. No. 1W814 has 3 shelves that are adjustable on 2" centers. Work surface can be mounted to form a 2" deep tray or reversed to provide a smooth, rimless work table. No. 1W909 has 3 shelves and No. 1W703 includes 1 shelf that is adjustable on 3" centers.

Durham®—Include 1 fixed, 200-lb. capacity shelf (based on evenly distributed loads), and 3-pt. locking mechanism with keyed locking handle. Models with vise support have a 2000-lb. capacity. Shipped assembled.

Description	Width	Depth	Height	Item No.	
Table Cabinets					
GA					
Single Door	21"	15¾"	34"	1W814	
Single Door	24"	25"	37"	1W909	
Double Door	36"	24"	37"	1W703	
Durham®					
Single Door	24"	24"	34½"	1UBK7	*
Double Door	36"	24"	33⅝"	1UBK8	*
Table Cabinets with Vise Support					
Durham®					
Single Door, 4 Drawers	48"	24"	36¼"	6RHH9	*
Single Door, 5 Drawers	48"	24"	38¼"	6RHJ0	*
Double Door	48"	24"	34"	6RHH8	*

** Ships assembled.*

tennsco Storage Made Easy | ★ GA GRAINGER APPROVED | GMI Greene Manufacturing, Inc. | DURHAM MFG Est. 1922

Lockable Shop Desks

OPEN SHOP DESKS

No. 8CFK6—14-ga. steel riser with compartments. Free standing desk w/ lockable drawer. Includes a bottom shelf for extra storage or as a footrest. Fully progressive ball bearing suspension. Shipped partially assembled.

No. 1W907—Steel sloping top is 43"H at front. Features single level riser and bottom shelf. 5° sloped writing surface. Shipped unassembled.

No. 4TX91—Steel desk features a dual riser, leg levelers, and legs with rolled edges for strength and rigidity. Sloping top is 42½"H at front. Open desk has lower shelf for footrest or extra storage space. 6° sloped writing surface. Shipped unassembled.

CABINET SHOP DESKS

No. 422W92—Angled steel writing surface has a storage drawer below with ball bearing glides. Rear organizer shelf has multiple organizational compartments. Cylinder style locks are keyed alike. Shipped assembled.

No. 422W97—Welded-on door hinges have a secure 3-pt. locking system with padlock hasp. Includes adjustable-height shelf inside the lower right storage compartment and convenient rear organizer shelf. Open compartment on lower left has pull-out shelf. Angled steel writing surface. Drawer easily opens on ball bearing glides and has padlock hasp. Shipped assembled.

No. 422W93—Includes adjustable-height shelf inside the lower storage compartment, convenient rear organizer shelf, and 5" caster kit (2 swivel/locking and 2 fixed). Features welded-on door hinges with a secure 3-pt. locking system and angled steel writing surface. Drawer opens on ball bearing glides and has padlock hasp for locking. Shipped assembled.

No. 422W90—Includes a rear organizer shelf for papers and forms and an adjustable-height shelf inside the lower storage compartment. Welded-on door hinges have a secure 3-pt. locking door system and padlock hasp. Angled writing surface. Drawer features ball bearing glides and padlock hasp. Shipped assembled.

No. 9TCF7—Free standing desk w/ lockable drawer and cabinet. Adjustable shelves allow you to modify the storage space to fit your needs. Bottom cabinet features a 3-pt. locking system to secure items. Drawer glides easily on fully progressive, ball bearing suspension. Shipped partially assembled.

No. 1W908—Cabinet includes "T" handle and built-in lock with 2 keys. 32"W x 28"D inside. 20-ga. steel top; single level riser. 5° sloped writing surface. Shipped unassembled.

No. 4TX92—Enclosed lower storage cabinet has adjustable lower shelf and 3-pt. locking door. 18-ga. steel top. 6° sloped writing surface. Shipped unassembled.

COMBINATION SHOP DESKS

No. 1PB42—Includes 2 lockable storage drawers and 2 lockable file drawers. Recessed-handle drawers operate smoothly on ball-bearing slides. Level writing surface is 42" above the floor.

No. 4W345—Desk includes level writing surface, 8-compartment dual riser/sorter, box drawer, 2 double-deep file drawers with knockouts for cylinder locks, 1 tray drawer with cylinder lock and 2 keys, and lower shelf/footrest. Shipped partially assembled.

No. 422W96—Features flat steel writing surface with lower drawer storage. Drawers are mounted on ball bearing glides. Rear organizer shelf has multiple compartments. Cylinder style locks are keyed alike. Lower foot rest shelf. Shipped unassembled.

WALL-MOUNTED SHOP DESKS

No. 1W952—Adds storage and saves floor space. Wall mounting bracket included. 5° sloped writing surface. Shipped unassembled.

No. 8CFK7—Mounts to the wall to provide a convenient work surface in areas where floor space is limited. Lockable drawer glides easily on fully progressive ball bearing suspension. Shipped partially assembled.

MOBILE SHOP DESK

No. 422X01—Features an angled steel writing surface with locking drawer storage below and open base design. Drawer mounted on ball bearing glides. Includes 4" locking casters and a rear organizer above work surface. Shipped unassembled.

No. 1PB38—Has a 10° sloped work surface with pencil rest and includes 2 lockable drawers and 1 lockable storage cabinet with 2 sections. Center shelf is welded in place. Four 3" swivel casters. 500-lb. capacity, based on evenly distributed loads.



No. 4TX91



No. 9TCF7



No. 1PB42



No. 422X01



No. 1PB38

	Overall Dim.					Item	
	W	D	H	Color	Brand	No.	
Open Shop Desks							
	34½"	29"	53"	Medium Gray	Tennsco	**8CFK6**	
	34½"	30"	53"	Industrial Gray	GA	**1W907**	†
	34"	30¼"	55½"	Beige	GA	**4TX91**	
Cabinet Shop Desks							
	36"	29"	54"	Charcoal Gray	Greene Mfg.	**422W92**	
	36"	28"	54"	Charcoal Gray	Greene Mfg.	**422W97**	
	36"	28"	54"	Charcoal Gray	Greene Mfg.	**422W93**	
	36"	28"	54"	Charcoal Gray	Greene Mfg.	**422W90**	
	34½"	29"	53"	Medium Gray	Tennsco	**9TCF7**	
	34½"	30"	52⅜"	Industrial Gray	GA	**1W908**	†
	34"	30¼"	53"	Beige	GA	**4TX92**	

	Overall Dim.					Item	
	W	D	H	Color	Brand	No.	
Combination Shop Desks							
	39"	29"	55"	Gray	Durham Mfg	**1PB42**	
	39"	29"	56"	Industrial Gray	GA	**4W345**	†
	36"	31"	54"	Charcoal Gray	Greene Mfg.	**422W96**	
Wall-Mounted Shop Desks							
	34½"	30"	37½"	Industrial Gray	GA	**1W952**	*
	34½"	29"	17½"	Medium Gray	Tennsco	**8CFK7**	
Mobile Shop Desks							
	24"	20"	52"	—	Greene Mfg.	**422X01**	
	23"	20"	51"	Gray	Durham Mfg	**1PB38**	

**** Height from bottom of bracket to top of desk. † Height from floor to top of work surface.***



No. 4KG36



No. 462D18



No. 4KG35



No. 1UG96



No. 462D22



No. 462D19

GRAINGER APPROVED

Computer Security Cabinets

Feature separate locking upper and lower compartments. Fit most 19" CRT monitors. Mobile units roll on 5" casters. Powder-coated finish. Vented back.

DESKTOP CABINETS

No. 4KG36—Includes slide-in pocket doors and inner compartments. 25¾"W x 19"D x 22¾"H compartment. Shipped fully assembled.

MOBILE CABINETS

Nos. 462D18—26¾"W x 23¾"D x 11¾"H compartment. 4 fixed shelves. Includes slideout keyboard tray and open printer shelf. Assembly required.

No. 4KG35—2 adjustable shelves in the 22½"W x 23"D x 30"H lower section. 6-outlet power strip has built-in surge protection. Shipped fully assembled.

Nos. 1UG95 and 1UG96—Slide-out keyboard tray can be accessed while top and bottom compartments remain locked. 20¾"W x 21¼"D x 23½"H lower compartment has 1 fixed and 1 adjustable shelf. Locking bottom doors in front and rear for easy access. Acrylic top compartment window for viewing most 20" monitors. Some assembly required.

Nos. 462D22 to 462D24—Each cabinet features 24"W x 9"D x 19¼"H compartment. Include 2 folding wing shelves, an adjustable shelf with ball guide, clear acrylic window, and lock. Assembly required.

STATIONARY

No. 462D19—35"W x 18"D x 41"H desktop. 4-position roll-out printer shelf adjusts to accommodate equipment. Lateral file drawer accommodates hanging files. Roll-out keyboard drawer. 4 fixed shelves. Locking upper compartment with retracting door. Assembly required.

Description	Overall Width	Overall Depth	Overall Height	Color	Item No.
Desktop					
Desktop Cabinet	30"	27¾"	30"	Blue/Gray	**4KG36**
Mobile					
Mobile Cabinet with Lock	27"	24"	49¾"	Blue	**462D18**
Mobile Cabinet with Adjustable Shelves	26"	24"	64"	Blue/Light Gray	**4KG35**
Enclosed Mobile Cabinet with Acrylic Window	24½"	22½"	59½"	Light Gray	**1UG95**
Enclosed Mobile Cabinet with Acrylic Window	21"	22½"	59½"	Putty	**1UG96**
Mobile Cabinet with Acrylic Window	24½"	22½"	62¾"	Light Gray	**462D22**
Mobile Cabinet with Acrylic Window	24½"	22½"	62¾"	Black	**462D23**
Mobile Cabinet with Acrylic Window	24½"	22½"	62¾"	Blue	**462D24**
Stationary					
Computer Enclosure	35"	24⅛"	62"	Light Gray	**462D19**

GRAINGER APPROVED

Pegboards and Accessories

Square-Hole Pegboards
- ⅜" square holes spaced on 1½" centers

Round-Hole Pegboards
- 9/32" holes spaced on 1" centers
- Use with lockable peghooks (sold separately) or standard ¼" peghooks
- Simple wall mounting with spacer kit No. 6YB42

Polypropylene Pegboard Panels—Offer an easily washable surface that is ideal for damp and poorly lit areas. Poly boards are higher capacity than wood boards and are more easily contoured to curved surfaces.

Hardwood Pegboard Swing Panels—Increase usable storage with these wall-mounted, two-sided pegboard panels. Steel frame with tempered pegboard panels hold up to 575 lb. per panel. Panels pivot at the wall mounting to allow multiple panels to be mounted side by side and still allow easy access.

Round-Hole Plastic Bin Kits and Shelf Tray—Yellow molded bins include mounting clips. Clips remain securely fastened to the board; bins are removable.



Square Hole Pegboard Hook No. G0527



Square Hole Curved Pegboard Hook No. G0551



Square Hole Single Ring Tool Holder No. G0548



Round Hole Swing Panel No. 6YB75



Round Hole Pegboard Hook Assortment No. G0587

Description	Overall Height	Overall Width	▶CHOOSE: Color	Pkg. Qty.	Item No.
Square-Hole Pegboards					
Steel Pegboard Panel	24"	24"	Blue, Red, Yellow, Tan, Gray, White	2	G0589
	42½"	24"	Blue, Red, Yellow, Tan, Gray, White	2	G0590
Square-Hole Peg Hooks and Accessories					
Single Rod Pegboard Hooks					
30° x ¾"H Bend, 1"D			Silver	5	G0525
30° x ½"H Bend, 1"D			Silver	5	G0527
30° x ½"H Bend, 3"D			Black, Silver	5	G0531
30° x ½"H Bend, 4"D			Black, Silver	5	G0532
30° x ½"H Bend, 8"D			Black, Silver	5	G0534
90° x ⅝"H Bend, 1"D			Black, Silver	5	G0528
90° x ⅝"H Bend, 2"D			Black, Silver	5	G0529
90° x ¾"H Bend, 6"D			Black, Silver	5	G0533
Straight, 1½"D			Silver	5	G0526
Straight, 3"D			Silver	5	G0530
Double Rod Pegboard Hooks					
30° x ½"H Bend, 1"D			Black	5	G0535
30° x ½"H Bend, 2"D			Black, Silver	5	G0537
30° x ½"H Bend, 3"D			Silver	5	G0538
80° x ¾"H Bend, 5¾"D			Black, Silver	5	G0541
90° x ¾"H Bend, 1"D			Silver	5	G0536
90° x ¾"H Bend, 3"D			Black	5	G0539
90° x ¾"H Bend, 4"D			Black, Silver	5	G0540
Curved Pegboard Hooks					
2"W Inside			Silver	5	G0551
3 9/32"W Inside			Silver	5	G0552
Double Closed Pegboard Hooks					
5"D, 2¾"W Inside			Black, Silver	5	G0554
8"D, 2¾"W Inside			Black, Silver	5	G0555
Extended Spring Clips					
¼" – ½" Hold Range			Black, Silver	5	G0543
¾" – 1¼" Hold Range			Black, Silver	5	G0544
1½" – 2¾" Hold Range			Black, Silver	5	G0542
Pliers/Wrench Tool Holders					
1¼"D			Black, Silver	5	G0553
Single Ring Tool Holders					
½" Inside Width			Silver	5	G0548
1¾" Inside Width			Black, Silver	5	G0550
Multi-Prong Tool Holders					
1 13/32"D			Silver	1	G0556
Pegboard Hook Assortment Kits					
46 Assorted Hooks			Black, Silver	1	G0558
63 Assorted Hooks			Black, Silver	1	G0559
Steel Shelf					
18"W x 6½"D, 100 lb. Load Cap.			Gray	1	6YE21
Spray Can Holders					
1–2" Hold Range			Silver	5	G0547
Standard Spring Clips					
½" – ¾" Hold Range			Silver	5	G0545
¾" – 1¼" Hold Range			Black, Silver	5	G0546
Bin Mounting Clip					
Bright Zinc Finish			Silver	5	6YE26

Description	Overall Height	Overall Width	▶CHOOSE: Color	Item No.	Pkg. Qty.
Round-Hole Pegboards					
Hardwood Pegboard Panel	24"	48"	Brown	6YE32	2
Polypropylene Pegboard Panel	24"	48"	White	2MRV2	2
	24"	48"	White	2MRV3	4
Hardwood Pegboard Swing Panel	48"	24"	Brown	6YB75	1
	48"	48"	Brown	6YB76	1
	72"	48"	Brown	6YB77	1
Round-Hole Peg Hooks and Accessories					
Single Rod Pegboard Hooks					
30° x ½"H Bend, 4"D			Silver, Black	G0564	10
30° x ½"H Bend, 2"D			Silver	5TPC9	10
30° x ½"H Bend, 2½"D			Black	5TPG0	10
30° x ½"H Bend, 6"D			Silver, Black	G0565	10
30° x ½"H Bend, 8"D			Silver, Black	G0567	5
30° x 1"H Bend, 1⅛"D			Black	5TPF9	10
90° x ½"H Bend, 1⅛"D			Silver, Black	G0560	10
90° x ½"H Bend, 2¾"D			Silver, Black	G0563	10
90° x ½"H Bend, 6"D			Silver, Black	G0566	10
Double Rod Pegboard Hooks					
80° x ¾"H Bend, 2 13/16"D			Silver, Black	G0568	10
80° x ¾"H Bend, 5¾"D			Silver, Black	G0569	10
80° x ¾"H Bend, 8¼"D			Silver, Black	G0570	5
Curved Pegboard Hooks					
2"W Inside			Silver, Black	G0579	10
Double Closed Pegboard Hooks					
5"D, 2¾"W Inside			Silver, Black	G0582	5
8"D, 2¾"W Inside			Silver, Black	G0583	5
Extended Spring Clips					
7/32" – 5/16" Hold Range			Black	G0572	10
⅝" – 1 9/32" Hold Range			Silver, Black	G0573	10
Pliers/Wrench Tool Holders					
15/16"D			Silver, Black	G0571	10
Single Ring Tool Holders					
¾" Inside Width			Silver, Black	G0577	10
Double Ring Tool Holders					
¾" Inside Width			Silver, Black	G0578	10
Multi-Prong Tool Holders					
1 13/32"D			Silver, Black	G0584	5
Multi-Ring Tool Holders					
1¾"D			Silver, Black	G0585	2
Pegboard Hook Assortment Kits					
12 Rods and Clips			Silver/Yellow, Black	G0588	1
26 Hooks and Bins			Silver/Yellow, Black	G0586	1
95 Assorted Pieces			Silver/Yellow, Black	G0587	1
Spray Can Holders					
2⅞"D			Silver, Black	G0574	5
Standard Spring Clips					
¼" – ½" Hold Range			Silver, Black	G0575	10
7/16" – ⅞" Hold Range			Silver, Black	G0576	10
1¾" Inside Width			Silver, Black	G0581	5
Bin Mounting Clip					
Bright Zinc Finish			Silver	5TPF4	5
Round-Hole Pegboard Bin Kits and Shelf Tray					
Bin Kits					
Yellow, 3"H x 4⅛"W x 5⅜"D			Yellow	5TPP2	24
Yellow, 3"H x 4⅛"W x 7⅜"D			Yellow	5TPP3	24
Yellow, 5"H x 11"W x 10⅞"D			Yellow	5TPP4	6
Shelf Tray					
12"D x 6"W			Blue	6YB63	1

No. 38P115
(Bins and other accessories sold separately.)



TRITON PRODUCTS

XtraWall® Swinging Pegboard Panels

- Hold a large amount of tools and parts
- Mount multiple panels side-by-side for easy access
- Designed to pivot at the wall mounting

Swing panels increase usable storage with 2-sided accessibility. Each Hardwood unit comes with ¼" perforated and tempered pegboard that attaches to a heavy-duty powder-coated steel frame system. No. 38P190 uses ¼" durable polypropylene pegboard for heavy power and hand tools or large items. Steel pivot wall brackets mount to cement block or wood stud walls. Include wall mounting bracket and hardware. Assembly required.

Load Capacity	Tool Storage Space	Overall Height	Overall Width	No. of Panels	Color	Item No.
Hardwood						
275 lb.	16 sq. ft.	48"	24"	1	Brown	**38P115**
275 lb.	16 sq. ft.	48"	24"	2	Brown	**38P116**
475 lb.	32 sq. ft.	48"	48"	1	Brown	**38P117**
575 lb.	48 sq. ft.	72"	48"	1	White	**38P118**
Polypropylene						
575 lb.	48 sq. ft.	72"	48"	1	White	**38P190**

No. 35YR18



TRESTON

Perfo-Stor™ Tool Storage System

- 172 sq. ft. of tool storage on 21 sq. ft. of floor space
- Each panel holds up to 220 lb.
- Add up to 10 panels for more storage

Keeps tools organized and accessible. Freestanding system stands firmly on its own. Durable steel construction with blue pegboard panels. Adjust distance between panels—caster on lower edge make them easy to move. Additional Panels include pull handle, hanging hardware, and caster.

Description	Overall Height	Overall Width	Overall Depth	Item No.
4-Panel Storage System	83⅜"	40⅜"	40¾"	**35YR18**
Additional Panel	77⅛"	37⅜"	½"	**35YR19**



No. 5RXD1
(Bins Sold Separately.)



No. 5RXD3

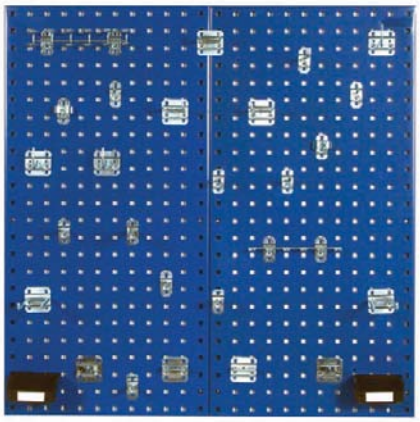
DURHAM MFG Est. 1922

Pegboard and Bin Storage Trucks

- Overall height: 57"
- 1½" angle iron frame
- 2000 lb. total capacity
- Shipped fully assembled

Transport and organize small parts and tools. Various configurations are available with 16-ga. louvered panels and/or 16-ga. steel pegboard on both sides, opposite sides, or paired on each side. All units have a 12-ga. steel deck 8" above the floor with reinforced channels underneath; 1½" lip on deck keeps parts from falling off. 6" x 2" phenolic casters; 2 rigid and 2 swivel with side brakes. Durable gray powder-coat finish. Pegboard holes are punched on 1" centers and accommodate standard peg hooks (sold separately; see page 1329). Louvered panels accommodate bins (sold separately, see page 1329).

Description	Item No.
Louvered Panel Both Sides	**5RXD1**
Round Hole Pegboard Both Sides	**5RXD2**
Louvered Panel/Round Hole Pegboard on Opposite Sides	**5RXD3**



No. 49WL35



No. 49WL49
(Tools not included.)



No. 45MX12



No. 45MX19

TRITON PRODUCTS

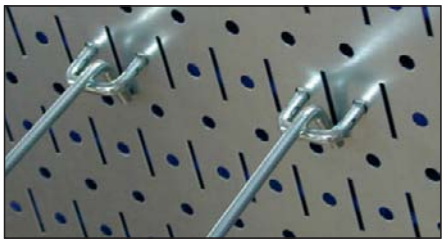
Pegboards

Heavy-duty, scratch-resistant, and epoxy-coated steel pegboard with square holes is ideal for use in clean room, factory floor production, maintenance, repair areas, and garages. Industrial-strength hooks create a very reliable pegboard system. Storage requirements for power tools, and even large and odd shaped tools are easily met using steel pegboards. Kits include assorted tool holder, hook, and/or bin accessories for immediate setup. For full list of kit contents, see Grainger.com®.

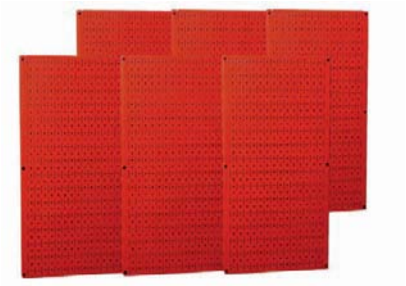
Overall Width	Overall Height	Color	Item No.
Pegboard Panel Kits			
18"	36"	Black	49WL36
		Blue	49WL35
		Silver	45MX05
	24"	Blue	49WL38
		Tan	49WL40
		White	49WL39
24"		Blue	49WL42
	42½"	Red	49WL43
		Silver	45MX22
		White	36RE11

Overall Width	Overall Height	Color	Item No.
Pegboard Strip Kits			
18"	4½"	Silver	49WL46
		White	49WL47
31½"	9"	Silver	49WL52
		White	52YP01
36"	4½"	Silver	49WL48
		White	49WL49
Pegboard Panels			
18"	36"	Silver	45MX04
24"	24"	White	36RE11
	42½"	Silver	45MX21

Description	Item No.
Accessories	
Shelf, 18"W x 6½"D	45MX17
90° Single Rod Pegboard Hook, ¾"H x 6½"D	45MX11
30° Single Rod Pegboard Hook, ½"H x 1⅝"D	45MX09
30° Single Rod Pegboard Hook, ½"H x 3½"D	45MX10
90° Double Rod Pegboard Hook, ¾"H x 4½"D	45MX12
Curved Pegboard Hook, 3"D	45MX16
Extended Spring Clip, 2"D	45MX14
Extended Spring Clip, ⅞"D	45MX13
Extended Spring Clip, 1¼"D	45MX15
Bin Mounting Clip, 2³⁄₁₆"H x ⅜"D	45MX20
Multi-Ring Tool Holder, 1⅞"D	45MX19
30° Multi-Prong Tool Holder, ⅜"H x 1¹³⁄₃₂"D	45MX18
Mounting Hardware	45MX08



¼" Round and 1" Slotted Metallic Pegboard (Hooks not included)



No. G0361



No. G0365

WALL CONTROL

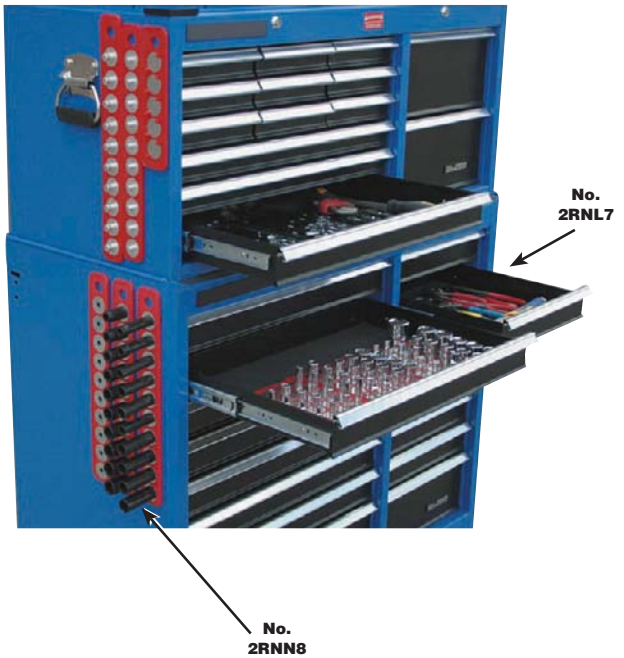
Wall Control® Systems

Pegboards—Versatile pegboards accommodate multiple variations of commercial-grade hooks, brackets, shelves, and magnetic accessories. Easy-to-install toolboards feature a pre-formed framed flange to space panel off of a wall, workbench, tool cart, stud, or any other vertical surface so no additional space is required and no peg hole must be used for mounting. 20-ga. steel construction is fire-, rust-, and corrosion-resistant.

Toolboard Hook Kits and Workstations—Hooks, brackets, and shelves provide secure tool storage on slotted Wall Control® pegboards. All hooks are made from 14-ga. steel with a durable baked-on finish.

Load Rating	H	W	▶CHOOSE: Color	Item No.
¼" Round and 1" Slotted Toolboard Pack Pegboard				
600 lb.	32"	48"	Silver, Blue, White, Gray, Black, Red	G0361
1200 lb.	32"	96"		G0362

Description	Includes	▶CHOOSE: Color	Item No.
Slotted Toolboard Hook Kits			
13-pc.	(6) Standard Slotted Toolboard Hooks, ¾" Reach (2) Medium Slotted Toolboard Hooks, 1⅞" Reach (2) Medium 90 Degree Toolboard Hooks (1) Slotted Toolboard U-Hooks, 3" Reach (1) Slotted Toolboard C-Brackets, 1" x 1" (1) Slotted Toolboard C-Brackets, 2" x 2"	Black, Red	G0363
26-pc.	(10) Standard Slotted Toolboard Hooks, ¾" Reach (4) Medium Slotted Toolboard Hooks, 1⅞" Reach (4) Medium 90 Degree Toolboard Hooks (2) Slotted Toolboard U-Hooks, 3" Reach (2) Slotted Toolboard C-Brackets, 1" x 1" (2) Slotted Toolboard C-Brackets, 2"		G0364
Toolboard Accessory Kits			
Workstation	(12) Standard Slotted Toolboard Hooks, ¾" Reach (4) Medium Slotted Toolboard Hooks, 1⅞" Reach (3) Plastic Bins and Bin Hanger (2) Slotted Toolboard C-Brackets, 1" x 1" (1) Slotted Toolboard C-Brackets, 2" x 2" (1) Slotted Toolboard U-Hooks, 3" Reach	Black, Red	G0365



TRITON PRODUCTS

Magnetic Socket and Tool Holders

Magnetic Socket Holder Strips—Designed to fit shallow or deep, standard or metric sockets. Allows quick, 1-handed release. Resists grease, oil, and chemicals. High-impact plastic base.

Universal Magnetic Tool Holder—Designed to hold wrenches, screwdrivers, pliers, and other hand tools. Resists grease, oil, chemicals, and rust.

Magnetic Tool Storage Power Mats—Made of a high-impact, flexible rubber magnetic grid. Designed to customize any tool box or vertical storage space.

Magnetic Socket Caddies—Include 28 interchangeable Power Pegs in 3 drive sizes.

Power Peg Socket Posts—Interchangeable steel posts for Socket Strips, Socket Caddy, and Power Mat.

Magnetic Pegboard Mag Mount—Magnetic tool storage solution for ¼" or ⅛" pegboard. Removable and reusable.

Description	Item No.	Pkg. Qty.
Magnetic Socket Holder Strips		
10 Fixed ¼" Power Pegs	**2RNK9**	1
10 Fixed ⅜" Power Pegs	**2RNL1**	1
10 Fixed ½" Power Pegs	**2RNL2**	1
10 Interchangeable ¼" Power Pegs	**2RNL3**	1
10 Interchangeable ⅜" Power Pegs	**2RNL4**	1
10 Interchangeable ½" Power Pegs	**2RNL5**	1
Universal Magnetic Tool Holder		
Universal Magnetic Tool Holder	**2RNN8**	1
Magnetic Tool Storage Power Mats		
2-Panel, No Pegs	**2RNL9**	1
3-Panel, No Pegs	**2RNN1**	1
3-Panel w/84 Assorted Power Pegs	**2RNN2**	1
Magnetic Socket Caddies		
28 Interchangeable ¼" Power Pegs	**2RNL6**	1
28 Interchangeable ⅜" Power Pegs	**2RNL7**	1
28 Interchangeable ½" Power Pegs	**2RNL8**	1
Power Peg Socket Posts		
¼" Drive Size	**2RNN3**	10
⅜" Drive Size	**2RNN4**	10
½" Drive Size	**2RNN5**	10
Magnetic Pegboard Mag Mounts		
1½" Diameter	**2RNN6**	3
1½" Diameter	**2RNN7**	5


Slat Wall Loop Hook


Slat Wall


Slat Wall J Hook


Slat Wall Utility Hook

suncast

Slat Wall Storage

SLAT WALL

Features lightweight resin panel. Tongue-and-groove design allows seamless installation with no visible brackets or screws. Add hooks and wire baskets (available separately) that are easily repositioned to customize wall storage.

SLAT WALL STARTER KITS

Provide different levels and types of storage accessories for all Suncast wall-mounted slat wall panels. Include 4 slat wall pieces, 4 J molding pieces, 100 drywall screws, one 24" tool bar, two 4" double hooks, one 8" double hook, one 4" loop hook, one 6" J hook, one 8" loop hook, one 8" x 12" basket, one 12" x 24" basket, 3 notch hooks, three 1" hooks, and six 4" hooks.

ACCESSORIES

Slat Wall Hooks—Powder-coated finish with a rubberized coating.

Wire Storage Baskets—Durable wire baskets are tapered for easy access. Black powder-coated finish.

Description	Overall Width	Overall Height	Overall Depth	Pkg. Qty.	GRAY Item No.	WHITE Item No.	TAN Item No.
Slat Wall	48"	12"	¾"	6	**1FER3**	**5AZA7**	**5AZA8**
Slat Walls Starter Kits	96"	12"	¾"	1	**5AZA6**	**5AZA4**	**5AZA5**

Description	Overall Width	Overall Height	Overall Depth	Load Capacity	Item No.	Pkg. Qty.
Accessories						
Double Closed Slatwall Hook	8½"	3⅝"	9½"	50 lb.	**1FEP4**	6
Slatwall J-Hook	2⅞"	7⅞"	7"	40 lb.	**1FEP6**	6
Slatwall Double Hook	2⅞"	4½"	8¾"	50 lb.	**1FEP5**	6
	2⅞"	4½"	4½"	30 lb.	**1FEP7**	6
Slatwall Utility Hook	2⅞"	5½"	6¼"	30 lb.	**1YAN2**	6
Wire Storage Basket	8"	7¾"	12"	40 lb.	**2XJF9**	4
	18"	7¾"	12"	60 lb.	**2XJG1**	4
	24"	5"	12"	60 lb.	**2XJG2**	6

Includes	Item No.
Accessory Assortments	
(1) 24" Tool Bar, (2) 4" Double Hooks, (1) 8" Double Hook, (1) 4" Loop Hook, (1) 6" J Hook, (1) 8" Loop Hook, (1) 8" x 12" Basket, (1) 12" x 24" Basket, 3 Notch Hooks, (3) 1" Hooks and (6) 4" Hooks	**5AZA0**
(1) 14" x 24" Shelf, (1) 24" Tool Bar, (1) 4" Loop Hook, (2) 8" Loop Hooks, (3) 4" Double Hooks, (2) 8" Double Hooks, (1) 6" J Hook, (1) 8" x 12" Basket, (1) 12" x 18" Basket, (1) 12" x 24" Basket, 1 Shoe Rack, 3 Notch Hooks, (3) 1" Hooks, (6) 4" Hooks, (	**5AZA1**
1 Tilt Bin Storage with 6 Bins, 1 Tilt Bin Storage with 9 Bins, 1 Paper Towel Holder, (1) 13" Magnetic Tool Holder, 1 Screwdriver Rack, (1) 8" x 12" Basket and (3) 4" Hooks	**5AZA2**
(1) 14" x 48" Shelf, (1) 14" x 24" Shelf, (2) 24" Tool Bars, (4) 4" Double Hooks, (2) 6" J Hooks, (1) 4" Loop Hook, (2) 8" Loop Hooks, (3) 8" Double Hooks, (2) 8" x 12" Baskets, (1) 12" x 18" Basket, (1) 12" x 24" Basket, 2 Shoe Racks, 3 Notch Hooks, (6)	**5AZA3**


No. 4FE66


No. 9NTD2


No. 38XX88


No. 8TT10

BEVCO

Ergonomic Task Chairs With Glides

- Weight capacity: 300 lb.
- 360° swivel
- Waterfall edge seat
- Pneumatic height adjustment
- Meet ANSI/BIFMA Standards

Nos. E8558 and E8810 offer superior ergonomic industrial seating for tough workplace environments. Have fully adjustable back and sturdy five-leg black nylon base with mushroom glides.

Polyurethane Seat Material units feature a 1½"-thick seat and ventilated ribs for lasting comfort and support.

Seat Height Range	Seat Width	Seat Depth	Back Width	Back Height	Footring	▶CHOOSE: Back Color	Item No.	
Fabric Seat								
16" to 21"	18"	18"	16"	15"	No	Black, Blue, Gray	**G8859**	
17" to 22"	18"	17"	16"	10"	No	Black, Gray	**E8558**	
16" to 21"	20"	18"	17½"	19"	No	Black, Gray	**E0252**	
23" to 33"	20"	17"	16"	10"	Yes	Gray	**F1977**	
	20"	17"	16"	10"	Yes	Black, Blue	**F1977**	
	18"	18"	16"	15"	Yes	Black, Blue, Gray	**G6691**	
	18"	17"	16"	10"	Yes	Black, Gray	**E8810**	
	18"	17"	16"	10"	Yes	Black	**9RV23**	†
	18"	17"	16"	10"	Yes	Gray	**8AJD6**	†
Polyurethane Seat								
15" to 20"	18½"	17"	16½"	12½"	No	Black	**9HPE8**	
	18½"	17"	16½"	12½"	No	Black	**8XAV2**	†
	18"	17"	17"	12"	No	Black	**8DJL8**	
21" to 31"	18½"	17"	16½"	12½"	Yes	Black	**1RL22**	
	18½"	17"	16½"	12½"	Yes	Black	**4FE66**	†
	19¼"	17½"	15½"	14½"	Yes	Black	**9NTD2**	†
22" to 31"	18"	17"	17"	12"	Yes	Black	**9KJ58**	
21" to 31"	19¼"	17½"	15½"	14½"	Yes	Black	**8AL73**	
24" to 29"	18½"	17"	16½"	12½"	Yes	Black	**1RL23**	
	18½"	17"	16½"	12½"	Yes	Black	**1RL24**	†
	18½"	17"	16½"	12½"	Yes	Black	**38XX88**	*†
Vinyl Seat								
17" to 22"	18"	17"	16"	10"	No	Black	**8AG88**	
16" to 21"	20"	18"	17½"	19"	No	Black	**8PKF0**	
23" to 33"	18"	17"	16"	10"	Yes	Black	**8TT10**	
	18"	17"	16"	10"	Yes	Black	**8AJD5**	†

** Adjustable arms. † Tilting back.*


No. 8PJ77


No. 3LLW2


No. 48RH33

BEVCO ShopSol

Scooter Stool and Tool Trolleys

- Meet ANSI/BIFMA Standards

No. 48RH33 has an adjustable tray.

Seat Material	Seat Height Range	Seat Size	Weight Cap.	Brand	Item No.
Round Stools					
Polyurethane	15½" to 20½"	14"-dia.	300 lb.	Bevco	**3LLW1**
Polyurethane	16" to 20"	14"-dia.	300 lb.	Bevco	**8PJ77**
Polyurethane	20" to 27"	14"-dia.	300 lb.	Bevco	**3LLW2**
Task Chair					
Polyurethane	23" to 33"	17¾"W x 17"D	300 lb.	Shopsol	**48RH33**


No. G6692


No. 36P746


No. G6682

BEVCO cramer

Ergonomic Task Chairs with Casters

Bevco®—Feature a pneumatic seat height adjustment with a 5-star reinforced black nylon base and 2¾"-thick upholstered waterfall seat. Bumper-guard trim on back and seat provide additional protection and durability.
- Weight capacity: 300 lb.
- 360° swivel
- Meet ANSI/BIFMA Standards

Cramer—Polyurethane seat material models feature durable molded polyurethane seats and backs providing resistance to chemical and physical damage while remaining easy to clean. The functional utility supports a wide range of applications in intense environments.
- Weight capacity: 350 lb.
- Molded seats with waterfall edge
- Meet ANSI/BIFMA Standards

Nominal Seat Height Range	Seat Size		Back Size		▶CHOOSE: Color	Caster Type	Brand	Item No.
	Width	Depth	Width	Height				
Fabric Seat Material								
17" to 22"	18"	18"	16"	15"	Black, Blue, Gray	Hard Floor	Bevco	G6692
	18"	18"	16"	15"	Blue, Black	Carpet	Bevco	E1590
19" to 22"	26"	22"	22"	22"	Black	Carpet	Bevco	36P746
24" to 34"	18"	18"	16"	15"	Black, Blue, Gray	Hard Floor	Bevco	G8860
	18"	18"	16"	15"	Black, Blue, Gray	Carpet	Bevco	E1593
Polyurethane Seat Material								
16" to 21"	18"	17"	17"	12"	Black	Carpet	Bevco	9NKY4
22" to 32"	18"	17"	17"	12"	Black	Hard Floor	Bevco	8DJM0
	18"	17"	17"	12"	Black	Carpet	Bevco	9LAG4
24" to 34"	19½"	19½"	17¼"	15"	Blue	Multisurface	Cramer, Inc.	G6682


Class 1000 w/ Glides
No. 53YJ66


Class 1000 w/ Glides
No. 53YJ63


Class 10 w/ Glides
No. 36R260

BEVCO

Cleanroom Task Chairs

- Weight capacity: 300 lb.
- Meet ANSI/BIFMA Standards

Class 1000 cleanroom stools are ideal for effective contamination control. Feature vinyl-covered 2½"-thick cushions, pneumatic seat height adjustment, 360° swivel, adjustable back with lumbar support, and sturdy 5-legged base with mushroom glides.

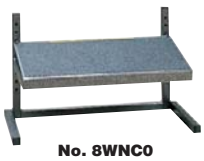
Material	Seat Height Range	Seat Width	Seat Depth	Color	Item No.
Cleanroom Task Chairs w/Glides					
Class 1000 (ISO 6)					
Vinyl (Antibacterial)	19½" to 24½"	20"	17"	Blue	53YJ61
	15½" to 20½"	20"	17"	Blue	53YJ59 ‡
	15½" to 20½"	20"	17"	Blue	53YJ57
	22" to 32"	20"	17"	Blue	53YJ66
	22" to 32"	20"	17"	Blue	53YJ62 ‡
	24½" to 29½"	20"	17"	Blue	53YJ68
	24½" to 29½"	20"	17"	Blue	53YJ63 ‡
Class 10 (ISO 4)					
Polyurethane	15" to 20"	18½"	17"	Black	36R224
	19" to 26½"	18½"	17"	Black	36R250
	21" to 31"	18½"	17"	Black	36R259
	21" to 31"	18½"	17"	Blue	36R260
ESD/Cleanroom Task Chairs w/Glides					
Class 1000 (ISO 6)					
Vinyl (Antibacterial)	22" to 32"	20"	17"	Blue	53YJ67
	24½" to 29½"	20"	17"	Blue	53YJ69
Nylon Tread					
Friction-Ring Stem Caster Kit for Furniture & Office Equipment, Pkg. of 5					1RL26 * 1RL21 †
Accessories					
ESD/Cleanroom Stool Footring, 18"-dia.					415Y50

For use with chrome tubular steel bases. † For use with 5-star base. ‡ Feature seats that tilt forward and backward 6°; backs tilt forward 11°, backward 15°.


No. 8TRV5


No. 5NWH3


No. 44N715


No. 8WNC0

GA GRAINGER APPROVED

National Public Seating

SAFCO

BEVCO

BIOFIT Dedicated to Design. Committed to Quality.

Round and Square Seat Stools

Seat Material	Seat Height Range	Weight Cap.	Color	Brand	Item No.
Round Stools					
Steel	27½"	300 lb.	Black	Traxion	**3KYP7**
Hardboard	18"	300 lb.	Gray	NPS	**8TRV5**
	24"	250 lb.	Gray	GA	**44N706**
	30"	250 lb.	Gray	GA	**44N707**
	30"	300 lb.	Gray	NPS	**9AE90**
	25" to 33"	300 lb.	Gray	NPS	**3LLV9**
Masonite Board	18"	300 lb.	Black	NPS	**20HW54**
	24"	300 lb.	Gray	NPS	**9RZR7**
	24"	300 lb.	Black	NPS	**20HW55**
	19" to 27"	300 lb.	Black	NPS	**20HW56**
	25" to 33"	300 lb.	Black	NPS	**20HW57**
Vinyl	16" to 21"	250 lb.	Black	Safco	**49H933**
	24"	300 lb.	Gray	NPS	**9HZA2**
w/Backrest					
Hardboard	18" to 27"	250 lb.	Black	GA	**5NWH3**
	24" to 33"	250 lb.	Black	GA	**5NWH5**
Padded	24" to 28"	250 lb.	Black	GA	**5NWH8**
	24" to 33"	250 lb.	Black	GA	**5NWH4**
Vinyl	19" to 27"	300 lb.	Gray	NPS	**8ZDK3**
	24" to 28"	300 lb.	Gray	NPS	**9CU75**
	25" to 33"	300 lb.	Gray	NPS	**9F713**
	30"	300 lb.	Gray	NPS	**8CV34**
	31" to 39"	300 lb.	Gray	NPS	**8CV35**
Square Stools					
w/Backrest					
Natural Plywood	18" to 26"	250 lb.	Natural Wood	GA	**5NWH6**
	24" to 32"	250 lb.	Natural Wood	GA	**5NWH7**
Padded	27¼" to 31⅞"	250 lb.	Gray	GA	**44N715**
Vinyl	24" to 31"	300 lb.	Black	Bevco	**9CU59**
Footrests, Steel with Rubber Matting					
14½"W x 13"H x 13"D				Bio Fit	**8WNC1**
22¼"W x 13"H x 13"D				Bio Fit	**8WNC0**


No. 4FE65


No. 6XKA0


No. 6XJZ8

BEVCO National Public Seating

Sit and Stand Stools

Help reduce leg strain caused by standing for extended periods, without limiting reach or restricting movement.

Seat Material	Seat Height	Seat Size Width	Seat Size Depth	Weight Cap.	Brand	Item No.
With Backrest						
Polyurethane	20" to 30"	14"	14"	300 lb.	Bevco	**8LK69**
	22" to 32"	14"	14"	300 lb.	Bevco	**4FE65**
Blowmolded Plastic	18"	16¾"	16¼"	300 lb.	NPS	**6XJZ9**
	22"	16¾"	16¼"	300 lb.	NPS	**6XKA0**
	24"	16¾"	16¼"	300 lb.	NPS	**6XKA1**
Without Backrest						
Blowmolded Plastic	18"	16¾"	16¼"	300 lb.	NPS	**6XJZ6**
	22"	16¾"	16¼"	300 lb.	NPS	**6XJZ7**
	24"	16¾"	16¼"	300 lb.	NPS	**6XJZ8**


No. 3LLW4


No. 45HL44

BEVCO

Pneumatic Stools

- Dual-wheel casters
- Polyurethane seat

Seat Height Range	Overall Height	Seat Width	Weight Cap.	Base Material	Color	Item No.
16" to 21"	21"	14"	300 lb.	Nylon	Black	**3LLW3**
18½" to 22½"	22½"	14½"	300 lb.	Nylon	Gray	**45HL47**
19½" to 27"	27"	14"	300 lb.	Nylon	Black	**3LLW4**
20" to 27½"	27½"	14½"	300 lb.	Polished Aluminum	Gray	**45HL51**
21" to 28½"	28½"	14½"	300 lb.	Nylon	Black	**45HL44**
23" to 33"	33"	15"	300 lb.	Nylon	Black	**36P848**


No. 29WT90


No. 29WT86

BEVCO

ESD Task Chairs

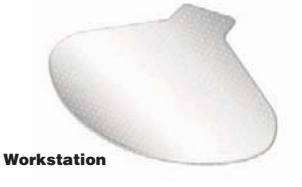
- Weight capacity: 300 lb.
- Meet ANSI/BIFMA standards

Material	Seat Height Range	Seat Width	Seat Depth	Base Material	Color	Item No.	
With Glides							
Fabric	15½" to 21"	20"	18"	Aluminum	Navy	**29WT87**	
	16" to 21"	18"	18"	Black Nylon	Navy	**29WT83**	
	19" to 26½"	20"	18"	Aluminum	Navy	**29WT89**	
	19" to 26½"	20"	18"	Aluminum	Black	**29WT90**	
	21½" to 31½"	20"	18"	Aluminum	Navy	**29WT91**	
	21½" to 31½"	20"	18"	Aluminum	Black	**29WT92**	
	23" to 33"	18"	18"	Black Nylon	Navy	**29WT85**	
Polyurethane	20½" to 30½"	18½"	17"	Aluminum	Black	**36R305**	*
Vinyl (Antibacterial)	20" to 27½"	20"	18"	Aluminum	Royal Blue	**8CG55**	
	22" to 29½"	20"	18"	Aluminum	Black	**9AAH9**	
	23" to 33"	20"	18"	Aluminum	Black	**9F061**	
With Casters							
Fabric	17" to 22"	18"	18"	Black Nylon	Navy	**29WT84**	
	24" to 34"	18"	18"	Black Nylon	Navy	**29WT86**	
Backless Stool w/Glides							
Vinyl	18½" to 26"	16"	16"	Polished Aluminum	Blue	**53YJ54**	
Accessories							
ESD Hard Floor Casters, Pkg. of 5						**4GJN1**	
ESD Adjustable Arm Kit - Doral & Integra Series, Black						**4GJN2**	
ESD Stool Plastic Glide, Pkg. of 5						**415Y52**	

Meets CAL 117 standards







AbilityOne PROGRAM ★ GA GRAINGER APPROVED

Chairmats

Durable mats save your carpet or hard floor from caster wear and tear. EconoMat® is an occasional use chairmat for low-pile carpet that provides a great value while offering economical performance. Supermat™ is medium-weight and for frequent use on medium-pile carpet.

Shape	Overall Dim.	ECONOMAT® CARPET UP TO ¼" THICK Item No.	ECONOMAT® HARD FLOORS Item No.	SUPERMAT™ CARPET UP TO ¼" THICK Item No.	SUPERMAT™ CARPET UP TO ¾" THICK Item No.
Traditional Lip	36" x 48"	**29PL62**	—	—	**29PL65**
Traditional Lip	45" x 53"	**29PL63**	**5WYC6**	—	**29PL66**
Rectangular	46" x 60"	**29PL64**	**29PL74**	—	—
Rectangular	36" x 48"	—	**29PL76**	**29PL75**	—
Workstation	66" W x 60" L	—	—	—	**29PL68**



Big and Tall Leather Chair

ALERA

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Item No.
Fixed Arms						
19" to 22"	Black	Black	Soft Leather	Soft Leather	450 lb.	**38EG83**









★ GA GRAINGER APPROVED balt OFFICE STAR PRODUCTS

Mesh-Back Desk Chairs

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Brand	Item No.
Adjustable Arms							
17" to 20"	Black	Black	Mesh	Fabric	300 lb.	Balt	**15Y336**
18" to 21"	Black	Black	Mesh	Mesh	275 lb.	GA	**36FJ99**
18" to 21"	Black	Black	Mesh	Mesh	300 lb.	Balt	**49UF42**
18" to 22"	Coal	Coal	Mesh	Fabric	250 lb.	Office Star	**19TX38**
19" to 23"	Black	Black	Mesh	Leather	275 lb.	GA	**452R25**











Executive Chairs

★ GA GRAINGER APPROVED OFFICE STAR PRODUCTS

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Brand	Item No.
Fixed Arms							
18" to 22"	Black	Black	Leather	Leather/ Polyurethane	275 lb.	GA	**6GNN4**
19" to 21"	Black	Black	Eco Leather	Eco Leather	250 lb.	Office Star	**15Z275**
19" to 22"	Black	Black	Leather	Leather	275 lb.	GA	**36FK01**
19" to 22"	Black	Black	Leather	Leather	400 lb.	GA	**452R31**
19" to 22"	Black	Black	Vinyl	Vinyl	400 lb.	GA	**36FK02**







Desk Chairs

OFFICE STAR PRODUCTS ★ GA GRAINGER APPROVED

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Brand	Item No.
2-Way Adjustable Arms							
15" to 20"	Black	Black	Fabric	Fabric	250 lb.	Office Star	**15Z366**
Fixed Arms							
18" to 22"	Black	Black	Polyester	Fabric	275 lb.	GA	**6GNN8**
19" to 22"	Black	Black	Vinyl	Vinyl	400 lb.	GA	**6GNN9**


Cherry


Mahogany


Office Desk, Cherry
No. 12T505


Conference Table Power/Data Port


Fax/Printer Stand, Mahogany
No. 12T566


Conference Table, Mahogany
No. 12U542


L-Shape Desk
No. 15X427


Lateral File, Mahogany
No. 12T572

REGENCY BESTAR

Office and Conference Room Furniture

Work surfaces feature a melamine finish that resists scratches and stains. Meet ANSI/BIFMA standards, except Nos. 12U550, 12U551, 12U556, and 12U557.

Prestige+ and Flare Series—Drawers have ball-bearing slides for quiet and smooth operation. Prestige+ Series features durable 1"-thick work surface with melamine finish and 2.5mm PVC edge, a modesty panel, and classic moldings. Each pedestal has 2 utility drawers and 1 file drawer with letter/legal filing system. Flare Series comes with a ¾" decorative rail under the top and silver decorative moldings for an elegant appearance. Pedestal comes with 1 utility drawer and 1 file drawer, while the hutch has a decorative rail under the top and 2 doors.

Legacy Series—Modern design is constructed with 1"-thick melamine laminate with matching 3mm PVC edges. All drawers and doors feature ergonomically designed pulls and include interchangeable locks. File drawers have a 150-lb. weight capacity with full extension, 3-step suspension slides, and hanging rails for letter/legal filing.

Conference Tables—Race track tables have 2"-thick tops and feature power/data ports.

Description	L	W	H	CHERRY Item No.	MAHOGANY Item No.
Conference Table, Race Track	6 ft.	35"	29"	12U526	12U527
	8 ft.	43"	29"	12U529	12U530
	10 ft.	47"	29"	12U532	12U533
	12 ft.	52"	29"	12U535	12U536
	14 ft.	52"	29"	31XK16	31XK17
	16 ft.	52"	29"	12U538	12U539
	18 ft.	52"	29"	31XK18	31XK19
	20 ft.	52"	29"	12U541	12U542
	22 ft.	52"	29"	31XK20	31XK21
	24 ft.	52"	29"	12U544	12U545
Conference Table, Round	—	42" dia.	29"	12U520	12U521
Conference Table Extension	48"	52"	29"	12U547	12U548

Description	Series	Overall W	Overall H	Overall D	BESTAR, TUSCANY BROWN Item No.	BESTAR, BORDEAUX Item No.	BESTAR, BORDEAUX/ GRAPHITE Item No.	REGENCY, CHERRY Item No.	REGENCY, MAHOGANY Item No.
Office Desks									
L-Shape Office Desk, (1) Full Pedestal	Embassy	73⅜"	30⅜"	66"	15X427	—	—	—	—
	Prestige +	71¼"	30 13/32"	69 13/64"	—	38XR02	—	—	—
L-Shape Office Desk, (1) Full Pedestal, Hutch	Prestige +	71¼"	66 13/16"	69 13/64"	—	38XP61 *	—	—	—
L-Shape Office Desk, (2) Full Pedestals, Hutch	Prestige +	71"	66¾"	62¾"	—	—	15X406	—	—
L-Shape Office Desk, (2) Pedestal Box/File	Legacy	60"	29"	77"	—	—	—	12T492 *	12T493 *
	Legacy	66"	29"	77"	—	—	—	12T498 *	—
	Legacy	71"	29"	82"	—	—	—	12T505 *	12T506 *
Office Desk, Bow Front, (2) Pedestal Box/File	Legacy	71"	29"	35"	—	—	—	12T480 *	12T481 *
Office Desk, Straight Front, (2) Pedestal Box/File	Legacy	60"	29"	30"	—	—	—	12T462 *	12T463 *
	Legacy	66"	29"	30"	—	—	—	—	12T469 *
	Legacy	71"	29"	35"	—	—	—	12T474 *	12T475 *
U-Shape Office Desk, (2) Pedestal Box/File	Legacy	71"	29"	106"	—	—	—	12T529 *	12T530 *
Reception Desks									
L-Shape Reception Desk, (2) Pedestal Box/File	Legacy	71"	42"	82"	—	—	—	12U511 *	12U512 *
Credenzas									
Credenza, (2) Pedestal Box/File	Legacy	71"	29"	24"	—	—	—	12T486 *	12T487 *
Hutches									
Hutch, 4-Door	Legacy	71"	36"	15"	—	—	—	12T538	12T539
Hutch, Open 2-Shelf	Legacy	35"	36"	15"	—	—	—	12T541	12T542
Hutch w/ Lateral File Cabinet, Open 2-Shelf, File/File	Legacy	36"	65"	24"	—	—	—	12T547 *	12T548 *
Hutch w/ Storage Cabinet, Open 2-Shelf, 2-Door	Legacy	36"	65"	24"	—	—	—	12T553 *	12T554 *
File Cabinets									
Combination File Cabinet, Box/Box/File/Lateral	Legacy	31"	29"	24"	—	—	—	12T568 *	12T569 *
Lateral File Cabinet, 2-Drawer, File/File	Legacy	36"	29"	24"	—	—	—	12T571 *	12T572 *
Storage Cabinets									
Conference Room Dry Erase Cabinet, Porcelain Covered Steel Dry Erase	Legacy	47"	47"	5"	—	—	—	12U550	12U551
Storage Buffet, 4-Door	Legacy	72"	36"	24"	—	—	—	12T556 *	12T557 *
Storage Cabinet, 2-Door	Legacy	35"	29"	24"	—	—	—	12T562 *	12T563 *
Storage Cabinet, Double Stacked	Legacy	36"	65"	24"	—	—	—	12T550 *	12T551 *
Storage Cabinet, Stackable, 2-Door	Legacy	35"	35"	24"	—	—	—	12T559 *	12T560 *
Storage Cabinet w/ Lateral File Cabinet, 2-Door, File/File	Legacy	36"	65"	24"	—	—	—	12T544 *	12T545 *
Wardrobe Cabinets									
Wardrobe Cabinet	Legacy	14"	65"	24"	—	—	—	—	12T575
Floor Lecterns									
Floor Lectern, w/(1) Inside Shelf, (4) Casters with 2 Locking	—	24"	44"	18"	—	—	—	12U556	12U557
Fax/Printer Stands									
Fax/Printer Stand, 1-Drawer	Legacy	21"	29"	21"	—	—	—	12T565	12T566

Includes locks.


No. 454Z59


No. 454Z58


No. 454Z55

Executive and Pedestal Desks

Hirsh Industries

Durable, laminated tops with lockable steel file drawers. For use with lateral filing cabinets, vertical filing cabinets, mobile pedestal filing cabinets, and bookcases. Meet ANSI/BIFMA standards.

Executive Desks—Include locks with 2 keys each, grommet holes, pencil tray, and drawer divider. Desks are shipped fully assembled.

Pedestal Desks—Include locks with 2 keys each and grommet holes. Require some assembly.

Pedestal Location	Color Top	Color Base	No. of Pedestals	Overall Width	Overall Depth	Overall Height	Mfr. Model	Item No.
Executive Desks								
Left and Right	Mahogany	Charcoal	2	60"	30"	29½"	20534	**454Z59**
Left and Right	Walnut	Black	2	72"	36"	29½"	20531	**454Z61**
Right	Mahogany	Charcoal	1	48"	30"	29½"	20540	**454Z58**
Pedestal Desks								
Left and Right	Oak	White	2	60"	30"	29½"	20445	**454Z55**
Left and Right	Walnut	Black	2	60"	30"	29½"	20446	**454Z56**
Left and Right	Gray	Gray	2	60"	30"	29½"	20448	**454Z57**
Right	Walnut	Black	1	48"	30"	29½"	20437	**454Z62**



Radius-Edge Office Desk

MBI

High-pressure laminate top is moisture-, scratch-, and stain-resistant and features 2 cord management grommets. Each pedestal has full-extension steel file drawers that lock, have built-in full width handles, and include dividers. 1"-thick side panel legs have adjustable leg levelers. Ships assembled. Meets BIFMA standards.

Series	Pedestal Location	Color Top	Color Base	No. of Pedestals	Overall Width	Overall Depth	Overall Height	Mfr. Model	Item No.
700	Left and Right	Medium Oak	Putty	2	60"	30"	29½"	DP706030PO	**4WYP5**


No. 9NJ16


No. 13F578


No. 13F579


No. 9FXP6

Computer Workstations

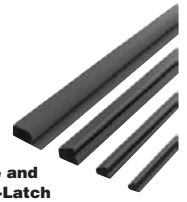
balt

Full pedestal styles, except for No. 9FXP6. All models feature lockable CPU bays, retractable keyboard shelves, and built-in wire management conduits. Require assembly.

Series	Pedestal Location	Color Top	Color Base	Overall Width	Overall Depth	Overall Height	Mfr. Model	Item No.
Computer Workstation								
LX	Right	Teak	Black	48"	24"	29"	89843	**9NJ16**
LX	Right	Teak	Black	72"	24"	29"	89844	**8UH84**
LX	Right	Gray	Black	48"	24"	29"	90106	**13F578**
LX	Right	Gray	Black	72"	24"	29"	90107	**13F579**
Split Level Workstation	None	Gray	Black	72"	36"	25½ to 31½"	83080	**9FXP6**
Cable Management Tray								
Includes (1) Tray				21½"	2½"	3"	65850	**13F586**


Adjustable Desk Grommet


Flexible Desk Grommet


J Style and Locking-Latch Channels


Self-Adhesive Wall/Desk Wire Clips

Desk Grommets, Wire Clips, and Channels

Problem Solving Products Master Manufacturing Master Caster — Supplier Diversity

Desk Grommets—Adjustable grommets open to 3 different widths. Flexible grommets can receive multiple wires from any direction.

Wall/Desk Wire Clips—Direct wires around corners or angles, keeping them safely off the floor and out of the way.

Channels—Block wires from view and prevent tangling. Self-adhesive backing. Locking-latch channels deter overstuffing; nonlocking ("J"-style) channels are designed for thicker cords.

Description	Dia.	H	L	W	Opening Size	Item No.
Desk Grommets						
Adjustable	2"	1⅛"	—	—	⅜ to 1"	**1APP7**
Adjustable	2⅜"	1"	7"	4"	⅝ to 1¼'	**1APP8**
Adjustable	3⅛"	1⅛"	—	—	1 to 1¾"	**1APP9**
Flexible	2⅜"	1⅛"	—	—	2¼"	**1APU1**
Wall/Desk Wire Clips, Pkg. of 6						
Self-Adhesive	—	⅞"	1"	1½"	¾ x 1¼"	**1APU2**
Channels						
J Style	—	1⅛"	48"	2⅜"	1½ x 15⁄16"	**1APU3**
Locking-Latch	—	½"	48"	¾"	5⁄16 x ⅝"	**1APU4**
Locking-Latch	—	⅝"	48"	1"	½ x ⅞"	**1APU5**
Locking-Latch	—	⅞"	48"	1½"	¾ x 1¼"	**1APU6**


Rectangle
No. 13F563


Half Round
No. 13F568

Flipper Series Mobile Tables

Easily flip the PVC top back to nest together for space-saving storage. Include 2" casters (2 locking, 2 nonlocking), modesty panel, integral cable trough, and grommets.

Shape	W	D	H	TEAK Item No.	MAHOGANY Item No.
Rectangle	36"	24"	30"	13F563	13F565
	60"	24"	30"	13F564	13F566
	72"	24"	30"	8PRF2	13F567
Half Round	48"	24"	30"	9FTV5	13F568


No. 13F573


No. 13F572


No. 13F576

Brawny Series Computer Desks

Ideal for use in training rooms, classrooms, as workstations, or as general purpose tables for any work area. Black powder-coated steel frame with high-pressure laminate top. top. Include 3" casters (2 locking, 2 nonlocking) and optional glides.

Overall Width	Overall Depth	Overall Height	MEDIUM OAK Item No.	GRAY Item No.
Computer Desks				
36"	30"	25½ to 33½"	13F573	9C707
60"	30"	25½ to 33½"	13F574	13F571
72"	30"	25½ to 33½"	13F575	13F572

Color	Overall Width	Overall Depth	Overall Height	Item No.
CPU Holder				
Black	8"	16½"	1¼"	13F576


Gray
No. 16W967


Mahogany
No. 16W968

OfficeWorks™ Series Mobile Tables

Functional training tables can easily be reconfigured to improve meeting productivity. Feature thermal-fused melamine laminate top, perforated modesty panel, and 4 casters (2 locking, 2 nonlocking).

Shape	W	D	H	GRAY Item No.	MAHOGANY Item No.
Rectangle	60"	18"	29"	16W967	16W968
	72"	18"	29"	16W969	16W970


No. 39A163


No. 39A161


No. 39A157

Height-Adjustable Sit/Stand Flipper Series Mobile Tables

Flexible tables adjust to accommodate sitting or standing heights up to 45". Tops flip back with a simple 1-handed lever for easy transport and nesting for storage. Black powder-coated steel frame with high pressure laminate top. Feature a stabilizing stretcher bar and 3" locking casters.

Shape	W	D	H	GRAY NEBULA Item No.	FUSION MAPLE Item No.	AMBER CHERRY Item No.
Rectangle	60"	24"	29" to 45"	39A163	39A160	39A157
	72"	24"	29" to 45"	39A164	39A161	39A158
Half Round	48"	24"	29" to 45"	39A165	39A162	39A159


Rectangle
No. 13F597


Corner Connector
No. 13F603

Agility Series Mobile Training Tables

Multifunctional tables with PVC flip top set up quickly and easily. Powder-coated black steel base includes modesty panel, storage shelf, and casters.

Shape	W	D	H	MAHOGANY Item No.
Mobile Training Tables				
Rectangle	60"	24"	30"	13F597
	72"	24"	30"	13F598
	60"	30"	30"	13F599
	72"	30"	30"	13F601

For Use With	Size	Item No.
Corner Connector		
13F599, 13F601	30" x 30"	13F603

KeepStock®
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**


No. 4GE26


No. 12F628


No. 12F633


No. 13V434


No. 12F622


No. 12F614


No. 12F617


No. 1RL27

GRAINGER APPROVED

Blow-Molded Polyethylene Folding Tables

High-density, scratch- and dent-resistant construction. Sturdy upper crossbar and steel tube legs. Use quarter round tables for conference and buffet uses. Bifold tables include handle for easy handling and storage.

Shape	Dia.	W	L	H	Top Thickness	WHITE Item No.	GRAY Item No.
Folding Tables							
Square	—	36"	36"	29"	1¾"	**13V430**	**13V431**
Rectangle	—	30"	60"	29"	1¾"	**4GE25**	**12F624**
	—	30"	72"	29"	1⅞"	**4GE26**	—
	—	30"	72"	29"	2"	—	**12F625**
	—	30"	96"	30"	2"	**4GE27**	**12F626**
Round	60"	—	—	30"	2"	**4NHN3**	—
	60"	—	—	29"	2"	—	**12F628**
Quarter Round	—	30"	30"	29"	1¾"	**12F633**	—
Bifold Tables							
Rectangle	—	30"	61"	29"	1½"	**13V434**	**13V435**
	—	30"	96"	29"	1¾"	—	**13V436**
	—	29"	96"	30"	1¾"	**12F613**	—
Square	—	36"	36"	28"	1½"	—	**13V433**
Folding Cocktail Tables							
Round	32"	—	—	44"	1¾"	**12F622**	—
Folding Training Tables							
Rectangle	—	20"	71"	29"	2"	**12F614**	**12F615**

Description	Item No.
Benches, Blow-Molded Polyethylene Frame	
69"W x 11½"D x 18¼"H, Gray	**12F617**
72½"W x 12"D x 17½"H, Gray	**12F619**
Table Storage Caddy	
With 2 Rigid and 2 Swivel 5" Casters	**1RL27**


No. 8RMK2


No. 23PG33

Blow-Molded Polypropylene Folding Tables

National Public Seating

Weather-resistant tables feature a lightly textured surface that resists scratching, but is smooth enough to write on.

Shape	W	L	H	Dia.	Top Thickness	SPECKLED GRAY Item No.
Rectangle	30"	60"	30"	—	1¾"	**8RMK2**
	30"	72"	30"	—	1¾"	**9UDW2**
	30"	96"	30"	—	2"	**8ZED9**
Round	—	—	30"	48"	2"	**23PG33**
	—	—	30"	60"	2"	**8PN51**
	—	—	30"	71"	2"	**23PG34**



Blow-Molded Polyethylene Adjustable Folding Table

Iceberg

Lightweight table has assembled contemporary style top. Heavy gauge, powder-coated oval tubing legs are 1" round. Comes with nonmarring protective foot caps. Easy to transport, set-up, and store.

Shape	W	L	H	Top Thickness	PLATINUM Item No.
Rectangle	20"	30"	25" to 28"	2"	**16W956**


No. 16W966

Iceberg

Blow-Molded Polypropylene Training Table

IndestrucTable TOO™ adjustable height tables are durable, dent- and scratch-resistant, and washable. Powder-coated steel tube base has nonmarring, adjustable leveling guides. Hold up to 300 lb., evenly distributed. Unassembled.

Shape	W	D	H	Top Thickness	CHARCOAL Item No.
Rectangle	48"	24"	21" to 31"	2"	**16W966**
	60"	30"	21" to 31"	2"	**16W965**


No. 13V424


No. 13V429


No. 13V425


No. 2W957


No. 3W076

Folding Chairs

GA GRAINGER APPROVED

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Item No.
Unpadded						
Beige	Beige	18⅛"	20"	29¼"	300 lb.	**1W985**
Black	Black	18⅛"	20"	29¼"	300 lb.	**13V423**
Blue	Blue	18⅛"	20"	29¼"	300 lb.	**13V424**
Blow-Molded Plastic						
White	Gray	18½"	21¼"	33⅜"	300 lb.	**4NHN5**
Gray	Gray	18½"	21¼"	33⅜"	300 lb.	**13V429**
Vinyl Padded						
Beige	Beige	18¼"	20⅛"	30¼"	300 lb.	**2W158**
Black	Black	18¼"	20⅛"	30¼"	300 lb.	**13V425**
Gray	Gray	18¼"	20⅛"	30¼"	300 lb.	**4GE54**
Fabric Padded						
Beige	Beige	18½"	20½"	32¼"	300 lb.	**2W957**
Gray	Beige	18½"	20½"	32¼"	300 lb.	**13V426**
Blue	Gray	18½"	20½"	32¼"	300 lb.	**13V427**
Gray	Gray	18½"	20½"	32¼"	300 lb.	**13V428**
Chair Mover						
Folding Chair Cart, 300 lb. Load Cap.				41²¹⁄₃₂"	—	**3W076**


No. 3KYF7


No. 3KYL1


No. 3KYH4


No. 9DZD7

National Public Seating

GA GRAINGER APPROVED

Plastic Folding Chairs

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Brand	Item No.
800 Series							
Gray	Gray	18¾"	20¾"	29¾"	480 lb.	NPS	**3KYG7**
Blue	Gray	18¾"	20¾"	29¾"	480 lb.	NPS	**3KYF7**
Black	Black	18¾"	20¾"	29¾"	480 lb.	NPS	**3KYG1**
White	White	18¾"	20¾"	29¾"	480 lb.	NPS	**3KYH1**
600 Series							
Speckled Gray	Textured Gray	18¾"	21½"	32"	300 lb.	NPS	**3KYL1**
Storage and Transport Dollies							
Folding Chair Dolly, Holds 36 Chairs						GA	**3KYH4**
Folding Chair Cart, Holds 84 Chairs						GA	**3KYJ4**
Folding Chair/Coat Cart, Holds 84 Chairs/70 Coats						GA	**9DZD7**


No. 4NHL2


No. 3W034


No. 4KK09


No. 3W033

CORTECH USA

GA GRAINGER APPROVED

REGENCY YOUR COMPLETE OFFICE SOLUTION

Stack Chairs

Series	Frame Material	Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Brand	Item No.
RazorBack	Polypropylene	Gray	Gray	20"	21"	30"	Cortech	**4NHL2**
RazorBack	Polypropylene	Slate Blue	Slate Blue	20"	21"	30"	Cortech	**4NHK7**
RazorBack	Polypropylene	Teal	Teal	20"	21"	30"	Cortech	**4NHL3**
Maestro	Steel	Black	Black	21"	23"	30½"	GA	**4KK08**
—	Steel	Black	Black	21¾"	18⅞"	32⅛"	GA	**3W034**
Maestro	Steel	Blue	Gray	21"	23"	30½"	GA	**4KK09**
—	Steel	Blue	Gray	21¾"	18⅞"	32⅛"	GA	**16A323**
—	Steel	Sand	Sand	21¾"	18⅞"	32⅛"	GA	**3W033**
Zeng	Steel	Black	Black	22"	17"	31"	Regency	**38HU21**


No. 23PG13


No. 23PG14


No. 9JAM4

National Public Seating

GA GRAINGER APPROVED

9200 Series Stack Chairs

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Brand	Item No.
Vinyl Upholstery							
Blue	Black	18"	20"	34"	300 lb.	NPS	**23PG19**
Blue	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG11**
Burgundy	Black	18"	20"	34"	300 lb.	NPS	**23PG20**
Burgundy	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG12**
Black	Black	18"	20"	34"	300 lb.	NPS	**23PG21**
Black	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG13**
Fabric Upholstery							
Blue	Black	18"	20"	34"	300 lb.	NPS	**23PG22**
Blue	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG14**
Burgundy	Black	18"	20"	34"	300 lb.	NPS	**23PG23**
Burgundy	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG15**
Black	Black	18"	20"	34"	300 lb.	NPS	**23PG24**
Black	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG16**
Fabric Diamond Pattern Upholstery							
Diamond Navy	Black	18"	20"	34"	300 lb.	NPS	**23PG25**
Diamond Navy	Silvervein	18"	20"	34"	300 lb.	NPS	**23PG17**
Storage and Transport Dollies							
Stacked Chair Dolly, Holds 10 Chairs					—	GA	**3KYK1**
Stacked Chair Dolly Holds 12 Chairs					—	GA	**9JAM4**



Big Foot®

No. 4JG44

No-Slip Doorstops

BIG FOOT®

Wide flange holds doors securely in any position. Gray color.

GIANT FOOT®

Extra-large, impact-resistant doorstop holds doors with clearances up to 2". Safety yellow color.

Description	W	L	H	Item No.	Pkg. Qty.
Big Foot®	2¼"	4¾"	1¼"	**4JG43**	2
Giant Foot®	3½"	6¾"	2"	**4JG44**	2



No. 1AYD7

3M

Self-Adhesive Bumpers

Bumpon™ peel-and-stick polyurethane bumpers adhere to a variety of surfaces.

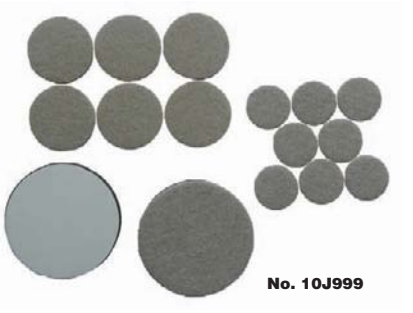
Shape	H	W	Color	Item No.	Pkg. Qty.
Tapered Square	0.230"	0.50"	Black	**1AYD3**	80
Hemisphere	0.085"	0.312"	Clear	**1AYD5**	96
Cylindrical	0.140"	0.50"	Clear	**1AYD7**	56
Hexagonal Cone	0.120"	0.433"	Clear	**1AYD9**	132



No. 10J992



No. 10J995



No. 10J999

Self-Stick Pads

GA GRAINGER APPROVED

Help protect surfaces from scratches and marring. Pads have a self-stick adhesive, except for No. 10J995. Convenient Multi Packs contain a variety of sizes and shapes.

Description	Dia.	H	Item No.	Pkg. Qty.
Felt Pads, Tan				
Round	⅜"	3⁄32"	**10G210**	84
Round	¾"	7⁄32"	**10G211**	20
Round	1"	7⁄32"	**10J989**	16
Round	1½"	7⁄32"	**10J990**	8
Round	2"	7⁄32"	**10J991**	6
Round	2½"	7⁄32"	**10J992**	4

Description	Dia.	H	Item No.	Pkg. Qty.
Round	3"	7⁄32"	**10J993**	4
Square 1"L x 1"W	—	7⁄32"	**10J994**	16
Rectangle 9"L x 2½"W	—	⅝"	**10J995**	4
Furniture Gripper Pads, Black				
Round	1"	7⁄32"	**10J998**	16
Round	1½"	7⁄32"	**10J997**	8
Rectangle 5"L x 4"W	—	7⁄32"	**10J996**	2

Item	Primary Furniture Tip Color	H	Includes	Item No.
Multi Packs				
Felt Pads	Tan	7⁄32", ⅝"	(16) 1'', (16) 1½'', (4) 2½''	**10J999**
Felt Pads	Brown	7⁄32"	(40) ¾'', (32) 1'', (8) 1½''	**10K001**



Rubber Angled, Straight

GA GRAINGER APPROVED



Plastic Angled

Slip-On Protective Leg Tips

Rubber—Nonskid cushioned rubber tips fit over straight or angled round tubular metal and wood furniture legs.

Plastic—Slip easily over tubular metal or wood furniture legs.

Shape	Cap Type	Leg Outside Dia.	Pkg. Qty.	WHITE Item No.	BLACK Item No.
Rubber					
Round	Angled, Straight	⅜"	24	**6J559**	—
Round	Angled, Straight	½"	24	**6J560**	**6J568**
Round	Angled, Straight	⅝"	24	**6J561**	**6J569**
Round	Angled, Straight	¾"	24	**6J562**	**6J570**
Round	Angled, Straight	⅞"	24	**6J563**	**6J571**
Round	Angled, Straight	1"	24	**6J564**	**6J572**
Round	Angled, Straight	1⅛"	24	**6J565**	**6J573**
Round	Angled, Straight	1¼"	24	**6J566**	**6J574**

Shape	Cap Type	Leg Outside Dia.	Pkg. Qty.	WHITE Item No.	BLACK Item No.
Plastic					
Square	Straight	1"	24	—	**6J576**
Round	Straight	⅞"	24	**6J589**	**6J598**
Round	Straight	1"	24	**6J590**	**6J599**
Round	Straight	1⅛"	24	**6J591**	—
Round	Angled	¾"	24	—	**6J580**
Round	Angled	⅞"	24	—	**6J581**
Round	Straight	¾"	24	—	**6J582**
Round	Straight	⅞"	24	—	**6J583**
Round	Straight	1"	24	—	**6J584**

Furniture Glides

GA GRAINGER APPROVED

Slide easily on wood, carpet, linoleum, and ceramic tiles. You can affix glides to furniture legs, and strip glides to entertainment centers and desks. Non-adhesive glides are reusable. No. 10K003 includes (4) 9'' x 2½'' rectangles, (4) 3½"-dia., and (4) 7''-dia. round shapes.

Shape	Tip/Cushion Material	Color	L	W	Dia.	Item No.	Pkg. Qty.
Non-Adhesive							
Multiple	Plastic/Felt and Foam	Tan	9"	2½"	3½", 7"	**10K003**	1
Rectangle	Plastic/Foam	Tan	9"	2½"	—	**10G207**	4
Square	Plastic/Foam	Tan	5"	5"	—	**10G208**	4
Self-Stick Adhesive							
Oval	Plastic/Foam	White	9½"	5¾"	—	**10G209**	4
Round	Plastic/Felt	Tan	—	—	1¼"	**10G203**	4
Round	Plastic/Felt	Tan	—	—	1 11⁄16"	**10G205**	4
Round	Plastic/Felt	Tan	—	—	2¼"	**10G204**	4
Round	Plastic/Felt and Foam	Tan	—	—	5"	**10K002**	4
Square	Plastic/Felt	Tan	2½"	2½"	—	**10G202**	4



No. 10G204



No. 10G202


No. 15Y305


No. 15Y316


No. 15Y311


No. 15Y318

Mobile Workstations and Stands

Description	H (in.)	Overall W (in.)	D (in.)	Color	No. of Casters	Caster Size (in.)	Mfr. Model	Item No.
Computer Workstation	27½ to 52½	30	24	Black	4	3	42551	**15Y305**
A/V Workstation	38½ to 44½	34	31	Black	4	3	85052	**15Y316**
Laptop Stand	21 ¼ to 31 ¼	25¾	15¾	Black	5	2	48752	**15Y311**
Laptop Stand	21¼ to 31¼	25¾	15¾	Mahogany	5	2	47262	**15Y310**
Laptop Stand	27 to 42	18	22	Black	3	2	89819	**15Y318**


No. 15Y285


No. 15Y283


No. 15Y282


No. 15Y281


No. 15Y286

Mobile Printer Stands

Description	H (in.)	Overall W (in.)	D (in.)	Color	No. of Shelves	Mfr. Model	Item No.
Dual Purpose	42½	25⅛	20	Gray	3	25983	**15Y285**
Dual Laser	31	24	24	Gray	3	23701	**15Y283**
All Purpose	27½	32½	25	Gray	3	22601	**15Y282**
Adjustable	27	24 to 35	29	Gray	3	21701	**15Y281**
Low Laser	14	17	17	Gray	2	27501	**15Y286**


No. 15X695


No. 15X701


No. 15X702


No. 15X704


No. 15X718


No. 15X717

Computer Racks, Workstations, and Carts

Description	W (in.)	Overall H (in.)	D (in.)	Color	Mfr. Model	Item No.
Racks, Workstations, and Carts						
Open Frame Shelf Rack, 5 Shelf with Server Shelf	24	72	30	Black	95-72241-004	**15X695**
Open Frame Shelf Rack, 5 Shelf	24	72	30	Black	95-72241-006	**15X696**
Computer Workstation, 3 Shelf	24	72	35	Black/Gray	95-72241-000	**15X694**
Computer Workstation, 2 Shelf	36	84	35	Black/Gray	95-UNI84-360	**15X701**
Double Frame Computer Workstation	60	84	35	Black/Gray	95-DUO84-600	**15X702**
Triple Frame Computer Workstation with Desk Mount CPU Holder	72	84	35	Black/Gray	95-TRI84-720	**15X703**
Triple Frame Computer Workstation with Overhead Storage	60	84	35	Black/Gray	95-TRIMO-000	**15X706**
Low Profile Computer Workstation, 5 Casters	48	42	35	Black/Gray	95-MIDIW-048	**15X704**
PACS Medical Workstation, 4 Casters	30	30	35	Black/Gray	95-21PAC-030	**15X718**
PACS Medical Workstation, 4 Casters	36	30	35	Black/Gray	95-21PAC-036	**15X719**
Low Profile Computer Cart, 4 Casters	24	42	35	Black/Gray	95-00042-024	**15X715**
Low Profile Computer Cart, 4 Casters	30	42	35	Black/Gray	95-00042-030	**15X716**
Low Profile Computer Cart, 4 Casters	36	42	35	Black/Gray	95-00042-036	**15X717**
Accessories						
Flat Panel Desk Clamp Assembly, 7" Extension				—	95-HE502-035	**15X723**
Flat Panel Desk Clamp Assembly, 14" Extension				—	95-HE502-045	**15X724**
Under Desk Articulating Keyboard/MouseTray				—	25-00110-000	**15X725**
Leg Mounted CPU Cradle				—	14-00830-000	**15X726**
Cable Raceway for 24" Wide Frame				—	38-00124-000	**15X727**
Cable Raceway for 30" Wide Frame				—	38-00130-000	**15X728**
Cable Raceway for 36" Wide Frame				—	38-00136-000	**15X729**
Power Strip for 24" Wide Frame				—	46-00050-624	**15X730**
Power Strip for 30" Wide Frame				—	46-00054-630	**15X731**
Power Strip for 36" Wide Frame				—	46-00058-836	**15X732**


No. 15X709


No. 15X710


No. 15X711


No. 15X713

Mobile Laptop Carts

Description	W (in.)	Overall H (in.)	D (in.)	Mfr. Model	Item No.
Mobile Laptop Carts					
Laptop Cart	24	66½	24	95-00140-155	**15X709**
Laptop Cart w/Locking Shelf	24	66½	24	95-00140-157	**15X710**
Laptop Cart Accessories					
Mouse Plate Set	8	¾	10	15-00051-004	**15X711**
Flat Panel Mount	3½	3½	9	15-00049-170	**15X712**
CPU Holder	10	14	5	15-00202-000	**15X713**



No. 11X418



No. 11X395



No. 11X402



No. 11X421

FireKing®

Fire-Resistant File Cabinets

High-security Medeco® key locks resist picking and drilling. UL Class 350 1-hr. fire rating with impact.

LATERAL AND VERTICAL FILE CABINETS

Fire-resistant insulation is 100% gypsum reinforced by a 1" x 2" lattice of 14-ga. galvanized welded-steel wire. Insulation is placed between each drawer to make each a separate fire-resistant container. Scratch-resistant and environmentally-friendly powder-coated finish. Drawer bodies have high sides for hanging files; no additional frames are required.

Safe-In-A-File vertical file cabinets conceal a 2.4 cu. ft. burglary-resistant safe behind a false-top drawer panel.

STORAGE CABINETS

Accomodate oversized documents, binders, or any other valuable items.

File Size	Overall Height	Overall Width	Overall Depth	No. of Drawers	BLACK Item No.	PARCHMENT Item No.
Vertical Files						
Letter	27¾"	17¾"	25 1⁄16"	2	**11X395**	**11X391**
Letter/Legal	27¾"	17¾"	22⅛"	2	—	**11X398**
Letter	27¾"	17¾"	31 9⁄16"	2	**11U575**	**11U571**
Legal	27¾"	20 13⁄16"	25 1⁄16"	2	**11X396**	**11X392**
Legal	27¾"	20 13⁄16"	31 9⁄16"	2	**11U576**	**11U572**
Letter/Legal	52¾"	17¾"	22⅛"	4	—	**11X397**
Letter	52¾"	17¾"	25 1⁄16"	4	**11X393**	**11X389**
Letter	52¾"	17¾"	31 9⁄16"	4	**11U573**	**11U569**
Legal	52¾"	20 13⁄16"	25 1⁄16"	4	**11X394**	**11X390**
Legal	52¾"	20 13⁄16"	31 9⁄16"	4	**11U574**	**11U570**
Safe-In-A-File Vertical Files						
Legal	27¾"	20 13⁄16"	31 9⁄16"	2	—	**11X420**
Legal	40½"	20 13⁄16"	31 9⁄16"	3	—	**11X419**
Legal	52¾"	20 13⁄16"	31 9⁄16"	4	—	**11X418**
Lateral Files						
Letter/Legal	27¾"	31 3⁄16"	22⅛"	2	**11X415**	**11X412**
Letter/Legal	27¾"	37½"	22⅛"	2	**11X416**	**11X413**
Letter/Legal	27¾"	44½"	22⅛"	2	**11X417**	**11X414**
Letter/Legal	40¼"	31 3⁄16"	22⅛"	3	**11X409**	**11X406**
Letter/Legal	40¼"	37½"	22⅛"	3	**11X410**	**11X407**
Letter/Legal	40¼"	44½"	22⅛"	3	**11X411**	**11X408**
Letter/Legal	52¾"	31 3⁄16"	22⅛"	4	**11X403**	**11X399**
Letter/Legal	52¾"	37½"	22⅛"	4	**11X404**	**11X401**
Letter/Legal	52¾"	44½"	22⅛"	4	**11X405**	**11X402**
No. of Shelves	**H**	**W**	**D**		**Color**	**Item No.**
Storage Cabinet						
2	44"	36"	19¼"		Parchment	**11X422**
4	72"	36"	19¼"		Parchment	**11X421**



No. 48YC56



No. 48YC55



No. 48YC58



No. 48YC57

Hirsh Industries

Vertical File Cabinets

File cabinets feature precision ball-bearing slide suspension and core removable lock. High-side drawers eliminate the need for hang rails. 22"-deep cabinets include follower wires, all others include follower blocks. Contain up to 30% recycled material. Meet ANSI/BIFMA standards.

File Size	Overall Height	Overall Width	Overall Depth	No. of Drawers	BLACK Item No.	PUTTY Item No.
Letter	28.38	15	22	2	**48YC56**	**48YC55**
	52	15	22	4	**48YC58**	**48YC57**

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

Flat Filing Systems

GA GRAINGER APPROVED

FLAT FILE CABINETS

Organize and protect stored documents such as blueprints and drawings with these heavy-duty welded steel files. Hinged paper weights in drawer fronts and hoods at the rear keep papers from curling. Drawers open smoothly and quietly, while sturdy drawer rails help ensure smooth alignment. Drawer stops help prevent accidental drawer pull-out. Each drawer includes 2 pull handles and chrome label holder. Include field-installed lock kit with 2 keys. Durable powder-coated finish.

BASES

Durable powder-coated finish. Shipped unassembled.

Closed—Raise flat files 4" off the floor to ease access. Support up to 5 stacked file units.

Open—Raise a single file unit 20" off the floor. The lower shelf helps provide extra storage space.


10-Drawer Flat File


Closed Base


Open Base

Description	Inside Drawer Height	Inside Drawer Width	Inside Drawer Depth	Overall Height	Overall Width	Overall Depth	PUTTY Item No.	BLACK Item No.	GRAY Item No.
Flat File Cabinets									
5 Drawer, Small	1 7/8"	37 13/64"	26 7/64"	16 7/64"	40 13/16"	28 3/8"	2CLA4	2CLA5	—
5 Drawer, Medium	1 7/8"	43 13/64"	32 13/16"	16 7/64"	46 45/64"	35 13/32"	2CLA7	2CLA8	2CLA9
5 Drawer, Large	1 7/8"	50 13/64"	38 45/64"	16 7/64"	53 3/4"	41 5/16"	2CLC1	2CLC2	2CLC3
10 Drawer, Medium	7/8"	43 13/64"	32 13/16"	16 7/64"	46 45/64"	35 13/32"	2CLC4	2CLC5	2CLC6
Closed Bases									
For 5 and 10 Drawer, Medium Cabinets	—	—	—	4"	46 3/4"	35 3/8"	—	2CLD2	—
For 5 Drawer, Large Cabinets	—	—	—	4"	53 13/16	41 3/8"	2CLD4	2CLD5	2CLD6
Open Bases									
For 5 and 10 Drawer, Medium Cabinets	—	—	—	20"	46 3/4"	35 3/8"	2CLE1	—	—
For 5 Drawer, Large Cabinets	—	—	—	20"	53 3/4"	41 3/8"	2CLE4	2CLE5	—


No. 415G35


No. 48YA88


No. 48YC07


No. 48YC30


No. 48YC34


No. 48YC39


No. 48YC53


No. 48YC90

Hirsh Industries

Lateral File Cabinets

Feature ball-bearing slide suspension for smooth door operation and full drawer accessibility. Models have an interlock system and core-removable locks. Tough steel construction with a powder-coated finish. Full-width drawer pulls, except Nos. 48YA83 to 48YA88. All models meet ANSI/BIFMA standards.

File Size	Includes	Overall Width (in.)	Overall Height (in.)	Overall Depth (in.)	No. of Drawers	BLACK Item No.	CHARCOAL Item No.	LIGHT GRAY Item No.	PUTTY Item No.
Lateral File Cabinets									
A4/Legal/Letter	Hang Rails, Label Holders, Core Removable Lock	36"	52 1/2"	18 41/64"	—	415G37	—	415G38	415G36
	Hang Rails, Label Holders, Core Removable Lock	36"	28"	18 41/64"	—	—	—	—	415G35
	Hang Rails, Label Holders, Core Removable Lock	42"	52 1/2"	18 41/64"	—	415G40	—	—	—
Letter	Hang Rails	30	28	18.63	2	48YA84	—	—	48YA83
	Hang Rails and Magnetic Label Holders	30	28	18.63	2	—	—	48YA91	48YA89
	Hang Rails and Magnetic Label Holders	30	40.3	18.63	3	48YA94	—	—	48YA93
	Hang Rails	30	52.5	18.63	4	—	—	48YA88	48YA86
	Hang Rails and Magnetic Label Holders	30	52.5	18.63	4	48YA98	—	48YA99	—
	Hang Rails and Magnetic Label Holders, Roll Out Binder Storage and Posting Shelf	30	67.63	18.63	5	48YC03	—	48YC04	48YC02
	Hang Rails 12", File Drawer	36	28	18.63	3	48YC46	—	—	—
	Hang Rails and Magnetic Label Holders	36	28	18.63	2	48YC07	48YC09	48YC08	—
	Hang Rails and Magnetic Label Holders	36	40.3	18.63	3	—	48YC13	—	48YC10
	Hang Rails and Magnetic Label Holders	36	52.5	18.63	4	—	48YC17	—	—
	Hang Rails, Magnetic Label Holders, Roll-Out Shelves	36	52.5	18.63	4	48YC48	—	—	48YC47
	Hang Rails 12", File Drawer	36	60	18.63	2	48YC44	—	—	—
	Hang Rails and Magnetic Label Holders, Roll Out Binder Storage and Posting Shelf	36	67.63	18.63	5	—	48YC21	—	—
	Hang Rails, Magnetic Label Holders, Roll-Out Shelves	36	68.63	18.63	5	48YC50	—	—	48YC49
	Hang Rails and Magnetic Label Holders	42	28	18.63	2	48YC23	48YC25	—	48YC22
	Hang Rails and Magnetic Label Holders	42	40.3	18.63	3	48YC28	48YC30	—	48YC27
	Hang Rails, Magnetic Label Holders, Roll-Out Shelves	42	52.5	18.63	4	48YC52	—	—	48YC51
	Hang Rails and Magnetic Label Holders	42	52.5	18.63	4	—	48YC35	48YC34	48YC32
	Hang Rails and Magnetic Label Holders	42	67.63	18.63	5	48YC38	48YC40	48YC39	48YC37
	Hang Rails, Magnetic Label Holders, Roll-Out Shelves	42	68.63	18.63	5	48YC54	—	—	48YC53
Desk Pedestals									
Box/Box/File 3 Drawers, Lock, Casters		15"	27 3/4"	19 7/8"	3	—	48YC90	—	—



Starter
No. 5UFA4



Add-On
No. 5UFA3

Open Shelf Filing

tennsco Storage Made Easy

- See Grainger.com® for the number of dividers, uprights, shelves, and supports

Space-saving design saves up to 60% floor space compared to conventional filing cabinets. Shelves adjust vertically in 1½" increments with 5 adjustable dividers per shelf. Backstop keeps folders from falling off shelves. Snap-together assembly. Sand powder-coated finish.

				STARTER		ADD-ON	
H	W	D	No. of Shelves	Shelf Cap.	Item No.	Shelf Cap.	Item No.
76"	48"	12"	6	550 lb.	**5UFA4**	550 lb.	**5UFA3**
76"	36"	12"	6	600 lb.	**5UFA6**	500 lb.	**5UFA5**
76"	36"	15"	6	500 lb.	**5RGX8**	500 lb.	**5RGX7**
88"	48"	12"	6	550 lb.	**5RGX4**	550 lb.	**5RGX3**
88"	36"	12"	6	600 lb.	**5RGX6**	500 lb.	**5RGX5**
88"	36"	15"	6	500 lb.	**5RGY0**	500 lb.	**5RGX9**



No. 3CRZ5
Standard



No. 3CTC3
Clearview

Radius-Edge Storage Cabinets

Locking handle helps secure contents. Heavy-gauge, all-welded steel construction with 90° rounded edges for a modern look. 3 shelves adjust in 1" increments (center shelf is fixed). 200-lb. capacity per shelf, based on evenly distributed loads. Leg levelers allow adjustment for uneven flooring. Powder-coated finish. Clearview cabinets feature a clear acrylic window on each door. Ship assembled.



Radius Edge

Door Type	H	W	D	No. of Shelves	BLACK Item No.	DOVE GRAY Item No.	PUTTY Item No.
Standard	72"	36"	24"	4	**3CRZ8**	—	—
Standard	72"	36"	18"	3	**3CRZ5**	**3CRZ6**	**3CRZ7**
Standard	72"	36"	24"	3	—	**3CRZ9**	**3CTA1**
Clearview	72"	36"	18"	3	**3CTC2**	**3CTC3**	**3CTC4**
Clearview	72"	36"	24"	3	**3CTC5**	**3CTC6**	**3CTC7**



No. 3CRW8



No. 3CRX6



No. 3CRY4

Sliding Door Storage Cabinets

Sliding doors allow easy access; cam lock helps protect and secure contents. Heavy-gauge all-welded steel construction. Shelves adjust on 1" centers. 200-lb. capacity per shelf, based on evenly distributed loads. Powder-coated finish. Ship assembled.

H	W	D	No. of Shelves	Includes	Black Item No.	Dove Gray Item No.	Putty Item No.
29"	36"	18"	2	(2) Adjustable Shelves	**3CRW8**	**3CRW9**	**3CRX1**
42"	36"	18"	3	(3) Adjustable Shelves	**3CRX5**	**3CRX6**	**3CRX7**
72"	36"	18"	5	(4) Adjustable Shelves, Raised Bottom Shelf	**3CRY2**	**3CRY3**	**3CRY4**



No. 16X010



No. 16X007

Iceberg

OfficeWorks™ Storage Cabinets

Lockable cabinets have double-walled dent- and scratch-resistant blow-molded high-density polyethylene (HDPE) construction for stability and security. Chemical-resistant and easy to clean. Quick and easy assembly with minimal tools.



No. 16X015

H	W	D	No. of Shelves	Includes	BLACK Item No.	PLATINUM Item No.
46"	36"	22"	2	(1) Adjustable Shelf Holds 125 lbs. (1) Fixed Shelf Holds 125 lbs. Each, (2) Keys	**16X010**	**16X012**
66"	33"	18"	3	(2) Adjustable Shelves Holds 75 lbs. Each, (1) Fixed Shelf Holds 75 lbs. Each, (2) Keys	**16X007**	**16X009**
72"	36"	22"	4	(3) Adjustable Shelves Holds 125 lbs. Each, (1) Fixed Shelf Holds 125 lbs. Each, (2) Keys	**16X013**	**16X015**

GA GRAINGER APPROVED

Vertical Filing Systems

Easily store and access large paperwork, such as engineering drawings. Tan color.

Note: Hanging clamps sold separately.

Pivot Mobile Stand—Rolls on 4 swivel casters (2 locking). Frame adjusts to accommodate 1200 sheets up to 54" long. Includes 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Drop/Lift Mobile Plan Center—1800-sheet capacity unit has 4 swivel casters (2 locking). Includes 18 pivot brackets to hold 24" to 48" clamps (sold separately).

Pivot Wall Rack—Mounts for space-saving storage of up to 1200 sheets. Includes mounting hardware and 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Drop/Lift Wall Rack—Space-efficient model extends less than 12" from wall; holds up to 1200 sheets. Includes mounting hardware and 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Hanging Clamps (Sold Separately)—Extruded aluminum clamps hold 100 sheets each (20-lb. max. weight). Clear plastic label holders and black end caps included. Sold in carton of 6.



Description	Req. No. of Clamps	H	W	D	Item No.
Filing Systems					
Pivot Mobile Stand	12	43½ to 61½"	27"	27½ to 37½"	**5W268**
Drop/Lift Mobile Plan Center	18	52"	30⅜" to 48⅜"	21⅓"	**4KH75**
Pivot Wall Rack	12	9¾"	24"	—	**5W269**
Drop/Lift Wall Rack	12	7¾"	1¼"	11½"	**4KH74**

Holds Sheets up to	Clamp Size	Item No.
Hanging Clamps		
18"	19¾"	**4KH73**
24"	25¾"	**5W270**
30"	31¾"	**5W271**
36"	37¾"	**5W272**
42"	43¾"	**5W273**

GA GRAINGER APPROVED

Roll Filing Systems

MOBILE WIRE

Economical units reduce filing and retrieval time. Assemble quickly and easily.

No. 4KH35—Constructed of heavy-gauge steel rods with white plastic coating and grandstand bottom for easy identification of same-length rolls. 4 swivel casters.

Nos. 5CRX0 and 5CRX1—Four 2" poly dual-wheel casters (2 locking), will not mar floors. Include insert to accommodate various size rolled documents. Black finish.

MOBILE WOODCORE

Heavy-duty grandstand design with square compartments stores rolled materials at graduated heights for easy accessibility. Textured putty, vinyl laminate finish. Has four 2" swivel casters.

STATIONARY CORRUGATED FIBERBOARD

Light-duty, portable filing system holds rolls upright in square compartments with reinforced plastic molding to prevent tears and snags. Walnut woodgrain finish.



No. of Compartments	H	W	D	Tube Size	Item No.
Mobile Wire					
24	31¾"	21"	14¼"	3⅛ sq. in.	**4KH35**
36	32⅜"	35⅜"	15"	3½ sq. in.	**5CRX0**
60	32⅜"	34"	15"	2½ sq. in.	**5CRX1**
Mobile Woodcore					
20	23¼"	15¼"	13¼"	2¾ sq. in.	**4KH33**
21	29¼"	30¼"	15¾"	3¾ sq. in.	**1RK42**
50	29¼"	30¼"	15¾"	2¾ sq. in.	**4KH34**
Stationary Corrugated Fiberboard					
12	22"	15"	12"	3⅛ sq. in.	**4KH31**
20	22"	15"	12"	2¾ x 2¾ sq. in.	**4KH32**

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready





No. 4KJ20



No. 4KJ23

tennsco Storage Made Easy

Steel Unassembled Bookcases

- Powder-coated finish

Assemble easily with provided hand tool. Reinforced shelves slide out easily to adjust in 1½" increments, lock securely when slid back in, and are slotted on 1" centers to accept bookstops (1 per shelf included). Bottom shelf does not adjust. 20-gauge steel construction.

H	W	D	No. of Shelves	Shelf Cap.*	BLACK Item No.	CHAMP/ PUTTY Item No.
Stationary Bookcase						
42"	38"	12"	3	200 lb.	**4KJ20**	**4KJ21**
30"	38"	12"	2	200 lb.	—	**4KJ19**
60"	38"	12"	5	200 lb.	—	**4KJ22**
84"	38"	12"	6	200 lb.	**3W085**	**4KJ23**

** Based on evenly distributed loads.*



No. 3CTE2



No. 3CTE4



No. 3CTD6



No. 3CTL2
Radius Edge

tennsco Storage Made Easy

Stationary Assembled Bookcases

- Powder-coated finish

Atlantic Metal units have 18" extra-deep shelves, accommodating large books, 3-ring binders, catalogs, ledgers, videos, and other reference materials. Shelves adjust on 1" centers. Tennsco shelves adjust vertically without tools in 2⅝₄" increments.

Radius Edge—Contemporary looking bookcases have leveling guides, allowing adjustment for uneven flooring.

H	W	D	No. of Shelves	Shelf Cap.*	Brand	BLACK Item No.	BLUE Item No.	DOVE GRAY Item No.	PUTTY Item No.
Stationary Bookcases									
30"	36"	18"	2	200 lb.	Atlantic Metal	—	**3CTD7**	—	**3CTD6**
42"	36"	18"	3	200 lb.	Atlantic Metal	—	**3CTE2**	**3CTD9**	**3CTE1**
42"	46"	18"	3	230 lb.	Atlantic Metal	—	**3CTF9**	**3CTF7**	**3CTF8**
52"	36"	18"	4	200 lb.	Atlantic Metal	**3CTE3**	**3CTE6**	**3CTE4**	**3CTE5**
66"	34½"	13½"	5	130 lb.	Tennsco	**1PX78**	—	—	—
72"	46"	18"	5	230 lb.	Atlantic Metal	—	**3CTG4**	—	—
78"	34½"	13½"	6	130 lb.	Tennsco	**1PX81**	—	—	—
84"	36"	18"	6	200 lb.	Atlantic Metal	—	**3CTF5**	**3CTF3**	—
Stationary Bookcases with Radius Edge									
30"	36"	18"	2	200 lb.	Atlantic Metal	**3CTJ7**	**3CTK1**	**3CTJ8**	**3CTJ9**
42"	36"	18"	3	200 lb.	Atlantic Metal	**3CTK2**	**3CTK5**	**3CTK3**	**3CTK4**
52"	36"	18"	4	200 lb.	Atlantic Metal	**3CTK6**	**3CTK9**	**3CTK7**	**3CTK8**
72"	36"	18"	5	200 lb.	Atlantic Metal	**3CTL1**	**3CTL4**	**3CTL2**	**3CTL3**

** Based on evenly distributed loads.*



No. 3CTG5



No. 3CTJ2



No. 3CTH1



No. 3CTH6

Mobile Assembled Bookcases

- Powder-coated finish

Mobile units have 4 heavy-duty 5" swivel casters, 2 are locking. 18" extra-deep shelves can accommodate large books, 3-ring binders, catalogs, ledgers, videos, and other reference materials. Shelves adjust on 1" centers.

H	W	D	No. of Shelves	Shelf Cap.*	BLACK Item No.	BLUE Item No.	DOVE GRAY Item No.	PUTTY Item No.
36"	36"	18"	2	200 lb.	**3CTG5**	**3CTG8**	**3CTG6**	**3CTG7**
48"	36"	18"	3	200 lb.	**3CTG9**	**3CTH3**	**3CTH1**	**3CTH2**
48"	46"	18"	3	230 lb.	**3CTJ3**	**3CTJ6**	**3CTJ4**	**3CTJ5**
58"	36"	18"	4	200 lb.	**3CTH4**	**3CTH7**	**3CTH5**	**3CTH6**
78"	36"	18"	5	200 lb.	**3CTH8**	**3CTJ2**	**3CTH9**	**3CTJ1**

** Based on evenly distributed loads.*


No. 11U531




No. 11U524


No. 11U523


No. 11U527

No. 11U533


No. 11U525


No. 11U526

Mailroom Sorting Tables

MARVEL®

- Powder-coated finish

Offer outstanding durability and easy care. Feature a scratch- and mar-resistant high-pressure laminate top for easy cleanup. Adjustable height legs increase functionality. Steel construction. Assembly required.

Description	No. of Compartments	H	W	D	Item No.
Sorting Table Center w/Open Shelf	50	76" to 84"	60"	30"	11U531
Sorting Cabinet w/Writing Space	30	80"	42"	16"	11U533
Sorting Table w/Doors	1	28" to 36"	60"	30"	11U524
Sorting Table	1	28" to 36"	60"	30"	11U523
Sorter Corner Table Bridge	0	28" to 36"	30"	30"	11U527
Fixed Sorter with Riser	35	42"	60"	14"	11U525
Adjustable Sorter	25	16"	60"	14"	11U526


No. 5CRX9


No. 5CRY3


No. 5CRY7

GA GRAINGER APPROVED

Steel Shell/Plastic Compartment Horizontal Literature Organizers

Organize and display a variety of literature in space-saving units. Heavy-duty polypropylene compartments accommodate letter-size file folders, catalogs, or other documents and hold up to 550 sheets. Wide shelf fronts have built-in label holders for easy content identification (labels included). Compartment size is 2½"H x 10⅓"W x 12"D. Assembly required.

Description	No. of Compartments	H	W	D	BLACK Item No.	GRAY Item No.	TAN Item No.
Letter	24	30"	34½"	13"	5CRX9	—	5CRY1
Letter, Unassembled	24	30"	34½"	13"	—	5CRY0	—
Letter	36	42"	34½"	13"	5CRY2	5CRY3	5CRY4
Letter	72	84"	34½"	13"	5CRY5	5CRY6	5CRY7


No. 1ECJ7

GA GRAINGER APPROVED

Wire Basket Mail Carts

Chrome-plated carts have lift-out removable baskets for easy loading and unloading. Also feature heavier-duty 5" swivel and 10" rigid casters.

Overall Dim. L	Overall Dim. W	Overall Dim. H	Top Basket Dim. L	Top Basket Dim. W	Top Basket Dim. H	Bottom Basket Dim. L	Bottom Basket Dim. W	Bottom Basket Dim. H	Item No.
30"	23"	38"	28"	21"	11"	28"	21"	7½"	1ECJ7
41"	23"	38"	39"	21"	11"	39"	21"	7½"	1ECJ8


No. 4YTC7


No. 4YTE3


No. 4YTC8

Welded Steel Horizontal Literature Organizers

tennsco Storage Made Easy

- Powder-coated finish
- Organizer trays adjust on 1½" centers

Fully-assembled organizers hold letter- or legal-sized documents and can be double-stacked or ganged side-by-side.

Type	No. of Compartments	H	W	D	BLACK Item No.	CHAMP/PUTTY Item No.	LIGHT GRAY Item No.
Literature Sorter							
Letter Size Opening	21	33"	30⅝"	11½"	4YTC7	4YTC9	4YTC8
Legal Size Openings	21	33"	30⅝"	14¼"	4YTD1	4YTD3	4YTD2
Horizontal Literature Organizer							
Letter, Drawers	30	33"	30⅔"	11½"	4YTE1	4YTE3	4YTE2
Legal, Drawers	30	33"	30⅔"	14½"	4YTE4	4YTE6	—
Legal, Drawers	30	33"	30⅔"	14½"	—	—	4YTE5


No. 3NVF4


No. 3NVF6


No. 3NVE8


No. 3NVE5

Sandusky

Book Trucks

- Powder-coated finish

Heavy-duty, 20-gauge steel construction. Nos. 3NVF1, 3NVE9, and 3NVE8 have 3" furniture-style casters and no handles. All others have 5" polypropylene swivel casters and handles.

No. of Shelves	H	W	D	Cap. per Shelf*	BLUE Item No.	CHARCOAL Item No.	DOVE GRAY Item No.
Sloped Shelves, Single-Sided							
2	24½"	28"	13"	200 lb.	3NVF1	3NVE9	3NVE8
3	46"	31"	13"	166 lb.	—	3NVF3	3NVF2
3	46"	31"	13"	166 lb.	3NVF4	—	—
Sloped Shelves, Double-Sided							
6	46"	37"	18"	166 lb.	—	3NVF6	3NVF5
6	46"	37"	18"	166 lb.	3NVF7	—	—
Flat Shelves							
3	46"	37"	18"	166 lb.	—	3NVE6	3NVE5
3	46"	37"	18"	166 lb.	3NVE7	—	—

** Based on evenly distributed loads.*



No. 38W824



No. 38W826



No. 38W839

No. 38W841

No. 30HH75



No. 38W839



No. 38W840

Umbrella Stands and Bags

Rustproof aluminum stands are easy to clean and maintain. Nos. 38W822 and 38W824 include removable water pans, all other models have weighted bases. Umbrella bags, sold separately, are dispensed from 2-sided floor standing holders. Holder Nos. 30HH74 and 30HH75 accept No. 38W839 sign, which is sold separately. Clear durable bags fit all umbrella sizes and are easy to use.

Umbrella Capacity	Finish	Dim.	Item No.
Umbrella Stands			
12	Satin Aluminum	18"H x 12"W x 10"D	**38W822**
24	Satin Aluminum	18"H x 24"W x 10"D	**38W824**
30	Satin Aluminum	23"H x 15"Dia.	**38W826**

Description	Finish	H	W	Item No.	
Wet Umbrella Holders, Sign, and Bags					
Floor Standing Umbrella Bag Holder	Satin Black	43"	11½"	**38W831**	*
	Satin Aluminum	43"	11½"	**38W832**	*
2-Sided Umbrella Bag Floor Stand for use with Sign	Satin Black	43"	11½"	**30HH74**	
Floor Standing Umbrella Bag Holder for use with Sign	Satin Aluminum	43"	11½"	**30HH75**	
Wet Umbrella Bag Sign	—	11"	7"	**38W839**	
Wet Umbrella Bags, Pkg. 100	—	31"	7"	**38W841**	
Wet Umbrella Bags, Pkg. 1000	—	31"	7"	**38W840**	

**** Not for use with No. 38W839 sign.***



No. 5M655



No. 2W330



No. 9WZF7



No. 8A811

Step Stools

GRAINGER APPROVED

cramer

Bottom Width	Top Step Height	Color	Load Cap.	Brand	Item No.
Plastic					
15¾"	13½"	Beige	350 lb.	GA	**5M655**
15¾"	13½"	Black	350 lb.	GA	**5M656**
Steel					
16"	14¼"	Black	350 lb.	Cramer	**2W330**
16"	14¼"	Red	350 lb.	Cramer	**9WZF7**
16"	14¼"	Sand	350 lb.	Cramer	**1UG81**
16"	14¼"	Slate	350 lb.	Cramer	**8A784**
16"	14¼"	Silvertone	350 lb.	Cramer	**8A811**



No. 2KEF9



Rotary
No. 2KEG2



Vertical
No. 1RH21



Vertical
No. 1RH13
(5 Units Shown)



No. 49J426

Steel Vertical and Rotary Literature Organizers

DURHAM MFG® Est. 1922
Buddy Products

- Powder-coated finish except No. 49J426

Store and display a variety of literature in a compact area. Vertical racks come assembled, rotary racks require assembly. Wall-mount, hardware not included.

No. of Compartments	H	W	D	Brand	BLACK Item No.	TAN Item No.	PLATINUM Item No.
Vertical							
5	20¼"	9¾"	4⅛"	Durham Mfg	**2KEF8**	**1RH21**	—
11	36"	9¾"	4⅛"	Durham Mfg	**2KEF7**	**1RH17**	—
16	45⅝"	13⁹⁄₁₆"	2⅛"	Buddy Products	—	—	**49J426**
23	65½"	9¾"	4⅛"	Durham Mfg	**2KEF6**	**1RH13**	—
Rotary							
20	23⅛"	14⅛"	14⅛"	Durham Mfg	**2KEF9**	**1RH33**	—
44	48½"	14⅛"	14⅛"	Durham Mfg	**2KEG1**	**1RH37**	—
92	68⅜"	14⅛"	14⅛"	Durham Mfg	**2KEG2**	**1RH41**	—



No. 2KEK1



No. 2KEK2

Mail/Suggestion Boxes

GRAINGER APPROVED

Constructed from cold-rolled steel and feature a powder-coated finish. Include 2 keys, mounting screws, adhesive labels, form templates, and pen.

H	W	D	Color	Item No.
7"	9¾"	3"	Gray	**2KEK1**
11"	12½"	10"	Gray	**2KEK2**

Outdoor Flags

Annin FLAGMAKERS

Made in the USA with embroidered stars and reinforced fray-resistant lock-stitched stripes on the fly end of the flag. 6 x 10-ft. and smaller size flags have brass lock grommets; 8 x 12-ft. and larger flags have roped heading. Nylon flags provide the best UV resistance and fly in the lightest breeze. 2-ply spun polyester flags provide the longest wear and resist high winds. For additional Flags, Flag Poles, and Accessories go to Grainger.com®.



No. 4XM79

Height	Width	Min. Flagpole H	COTTON Item No.	NYLON Item No.	POLYESTER Item No.
3 ft.	5 ft.	20 ft.	—	3JN76	—
3 ft.	5 ft.	—	—	—	2NED3
4 ft.	6 ft.	25 ft.	—	3JN77	2NED4
5 ft.	8 ft.	30 ft.	3GRH6	3JN78	2NED5
6 ft.	10 ft.	35 ft.	—	—	2NED6
6 ft.	10 ft.	40 ft.	—	4XM79	—
8 ft.	12 ft.	40 ft.	—	—	2NED7
8 ft.	12 ft.	45 ft.	—	2ZE44	—
10 ft.	15 ft.	50 ft.	—	3GRG6	3GRJ4
12 ft.	18 ft.	60 ft.	—	3GRG7	3GRJ5
15 ft.	25 ft.	80 ft.	—	3GRG8	3GRJ6
20 ft.	30 ft.	80 ft.	—	3GRG9	3GRJ7

Annin FLAGMAKERS

Flagpole Accessories



No. 5JFC5

No. 5JFC7

No. 5JFC3

No. 5JFC4

No. 5JFA7

Description	Item No.
Snap Hook, 2½"H, ⅜" L	5JFC7
Halyard, ⅜" Dia., 100 ft. L	5JFC6
Halyard, 5/16" Dia., 100 ft. L	5JFC5
Cleat, A-9, 9" L	5JFC4
Revolving Truck, 2S-HR, Aluminum	5JFC3
Ball Ornament, 3" Dia., Aluminum	5JFA7
Ball Ornament, 4" Dia., Aluminum	5JFA8
Ball Ornament, 5" Dia., Aluminum	5JFA9
Ball Ornament, 6" Dia., Aluminum	5JFC0
Ball Ornament, 8" Dia., Aluminum	5JFC1

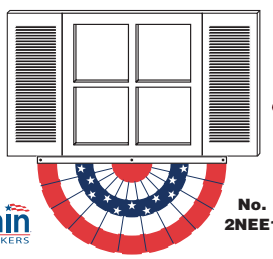
Annin FLAGMAKERS

Indoor/Outdoor Estate Flag Set

Sewn and embroidered flag includes 6-ft. aluminum spinning pole and 1" dia. mounting bracket. Nylon flag will not furl in the wind.



Height	Width	Item No.
3 ft.	5 ft.	5JGD3



Annin FLAGMAKERS

No. 2NEE1



No. 5JGE2

Pleated Fans and Bunting

- For indoor and outdoor

Height	Width	Material	Item No.
Pleated Fans			
18"	36"	Poly/Cotton Blend	5JGE3
3 ft.	6 ft.	Nylon	2NEE1
4 ft.	8 ft.	Nylon	2NEE2

Height	Width	Material	Item No.
Bunting			
180 ft.	3 ft.	Poly/Cotton Blend	5JGE2



No. 2NED8

Annin FLAGMAKERS

Indoor Flag Sets

Nylon flag has gold fringe, cord, and tassels. Include 2-pc. oak pole, gold eagle ornament, and gold color floor stand.

Pole L	Height	Width	Item No.
8-ft.	3 ft.	5 ft.	2NED8
9-ft.	4 ft.	6 ft.	2NED9

Annin FLAGMAKERS

State Flags

Durable and fast drying flags are made to official state design specifications. Nylon with strong duck heading and large brass grommets.



ILLINOIS

▶CHOOSE:	3 ft. x 5 ft. Item No.	4 ft. x 6 ft. Item No.	5 ft. x 8 ft. Item No.
Any State or District of Columbia	D3761	D3771	D3772



US Army | US Marine Corps | US Navy | US Air Force

Armed Forces Flags

Annin FLAGMAKERS

Nylon flags are made in the USA and manufactured to military branch specifications.

▶CHOOSE:	3 ft. x 5 ft. Item No.	4 ft. x 6 ft. Item No.	5 ft. x 8 ft. Item No.
US Army, US Marine Corps, US Navy, US Air Force, US Coast Guard, POW-MIA	D4226	D4227	D4228

Annin FLAGMAKERS

Classroom Flags

Indoor flags are made from nylon material. Mounting brackets, sold separately. For additional Flags, Flag Poles, and Accessories go to Grainger.com®.



No. 5JGD4

Height	Width	Item No.	Pkg. Qty.
12"	18"	5JGD4	12
16"	24"	5JGD5	12
24"	36"	5JGD6	12

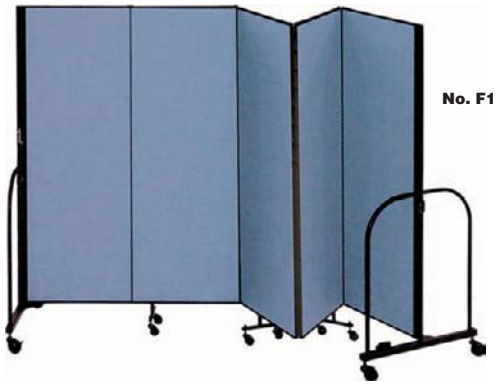
Annin FLAGMAKERS

Desk Flag

- Includes black styrene stand with 10" staff



Height	Width	Material	Item No.
4"	6"	Nylon	2NEE3



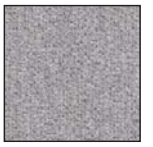
No. F1883



Beige



Blue



Gray



Mauve

SCREENFLEX Commercial Edition
Portable Room Dividers

Room Dividers

Sound-absorbing divider panels are free of external connections and glide across floors on self-leveling casters. No assembly or installation required. Black powder-coated painted metal trim, hinges, and caster covers. Tackable panels are treated with fabric protector.

No. of Panels	Overall Width	▶CHOOSE: Color	4 FT. HEIGHT Item No.	5 FT. HEIGHT Item No.	6 FT. HEIGHT Item No.	6 FT. 8 IN. HEIGHT Item No.	7 FT. 4 IN. HEIGHT Item No.	8 FT. HEIGHT Item No.
3	5 ft. 9 in.	Beige, Blue, Gray, Mauve	**F1876**	**F1877**	**F1878**	**F1879**	**F1880**	**F1881**
5	9 ft. 5 in.	Beige, Blue, Gray, Mauve	**F1882**	**F1883**	**F1884**	**F1885**	**F1886**	**F1887**
7	13 ft. 1 in.	Beige, Blue, Gray, Mauve	**F1888**	**F1889**	**F1890**	**F1891**	**F1892**	**F1893**
9	16 ft. 9 in.	Beige, Blue, Gray, Mauve	**F1894**	**F1895**	**F1896**	**F1897**	**F1898**	**F1899**
11	20 ft. 5 in.	Beige, Blue, Gray, Mauve	**F1900**	**F1901**	**F1902**	**F1903**	**F1904**	**F1905**
13	24 ft. 1 in.	Beige, Blue, Gray, Mauve	**F1906**	**F1907**	**F1908**	**F1909**	**F1910**	**F1911**



No. 39A134



No. 39A072

Best-Rite

Panels and Partitions

Desktop Privacy Panels—Define work areas, provide privacy, and help shield sound without impairing visibility. Attaches to any work top from .75" to 1.5" thick without using any permanent hardware or damaging surface. Porcelain steel dry erase surface.

Whiteboard Partitions—Mobile, double-sided partitions can be used to divide, organize, and customize your work or display areas. Include hardware, 2 markers, and eraser cloth. Locking casters. Steel board frame.

Description	Height	Width	Item No.
Desktop Privacy Panels	17"	21½"	**39A134**
	17"	32"	**39A135**
	17"	41"	**39A136**
	17"	48"	**39A137**
	17"	58"	**39A138**
	17"	66"	**39A139**
Porcelain Steel Magnetic Whiteboard	72"	72"	**39A072**
	72"	96"	**39A074**
Dura Rite® HPL Whiteboard	72"	72"	**39A073**
	72"	96"	**39A075**



Best-Rite

Dry-Erase Room Divider

Easily turn any space into a multifunctional environment; add to a personal work area for increased privacy or combine several dividers to create a new, separate meeting area. Double-sided magnetic divider with 5" casters makes it easy to move. Painted board steel frame. Includes hardware, 2 markers, and eraser cloth.

Dry Erase Height	Dry Erase Width	Includes	Item No.
74¼"	37½"	Hardware, 2 Chart Hooks	**39A077**



No. 20ZA27



No. 49UG17

balt

Tablet Charging Carts

Keeps mobile computing devices secured and charged when not in use. Allows easy front loading access of devices and electrical assemblies. Units have locking mechanism and ventilation doors, preventing devices from overheating.

Description	Includes	Compatible With	Cap.	Material	H	W	D	Item No.
A La Cart Charging Cart	(4) ETL Listed Power Strips, Non-Skid Top, Ventilated Side Panels, (2) Handles, (2) Auxiliary Power Outlets, On/Off Switch, Cord Winder, (4) 4" Heavy Duty Casters	Chromebook, Otterbox Defender Series Cases	32	Steel	36¾"	31¾"	20⅛"	**20ZA27**
Charging Cart	Power Cord	All Tablets, Chromebooks	32	Steel	39½"	41¼"	23¾"	**49UG17**



AMPLIVOX PORTABLE SOUND SYSTEMS

Adjustable Height Metal Cart

Cart includes keyboard tray with runners, 3-outlet UL and CSA Listed electric assembly, 15-ft. cord, cord plug snap, and hardware.

Monitor Size	Color	Caster Type	Load Capacity	H	W	D	Item No.
19"	Black	4" Rubber (2 Locking)	100 lb./shelf	42"	46"	18"	30F322



No. 6NWC9



No. 6NWD0



No. 6NWD1



No. 6NWD3

Kensington

Computer Locks

Description	Item No.
Grommet Hole Cable Anchor	6NWC9
Desk Mount Cable Anchor	6NWD0
Desktop & Peripherals Locking Kit	6NWD1
ClickSafe(R) Laptop Lock	6NWD3



Wall/Ceiling Projection Screen No. 1UEN9



Tripod Projection Screen No. 1UEP1

quartet.

Projection Screens

Wall or Ceiling—Heavy-duty springs keep retraction tension consistent over time. Optional wall mount bracket extends screen 6" from wall, sold separately.

Tripod—Durable and lightweight screen comes with a steel protective case. Rolling springs help ensure a properly tensioned viewing surface.

Mounting Method	Screen Size	Item No.
Wall or Ceiling	60 x 60"	1UEN9
	70 x 70"	1UEN8
	84 x 84"	1UEN7
Tripod	60 x 60"	1UEP1
	70 x 70"	30P074
Wall Mount Bracket, Pkg. of 2		1UEN6



No. 30P075



No. 1UEP2



No. 1UEP3



No. 1UEP4

quartet.

Laser Pointers

- Batteries included

WARNING: Avoid direct eye exposure.

Multifunctional No. 1UEP4— 4 functions in 1: laser pointer, LED light, pen, and PDA stylus.

Description	Beam Color	Class	Projection	Material	Item No.
Laser Pointer	Red	2	655 ft.	Plastic	30P075
	Red	3A	655 ft.	Plastic	1UEP2
	Red	3A	1500 ft.	Aluminum	1UEP3
Multifunction Laser Pointer	Red	2	919 ft.	Metal	1UEP4



No. 40KJ49



No. 19MX53



No. 2RRD2

Aerosol Dusters

Provide air blast that cleans and removes embedded debris and dust without damaging sensitive electronics, equipment, computers, dvd players, or detectors. 100% ozone safe and contains a bitterant to help discourage inhalant abuse. Include extension straws for hard-to-reach areas.

Size	Brand	Item No.		Pkg. Qty.
10 oz.	Dust-Off	**40KJ49**		1
10 oz.	Dust-Off	**40KJ50**		2
—	Dust-Off	**40KJ48**		1
17 oz.	Dust-Off	**40KJ51**		2
16 oz.	CRC	**19MX53**	*	1
16 oz.	Ability One	**2RRD2**	†	1

RoHS Compliant. †VOC Compliant.



Net Weight	Item No.
18.2 oz.	**36P713**

Rechargeable Industrial Use Canless Air System

Easily cleans keyboards, servers, retail displays, camera equipment, and circuit boards. Lasts for 18 min. per charge, which is equal to 2 to 3 cans of canned air. Features a battery life of over 500 charges; system equals over 1000 cans of air in its lifetime. Includes straws and charger.



Critical Air Duster

Blasts dry, filtered air for cleaning and removing dirt and debris off computers, electronics equipment, printers, copiers, and cameras. Includes ⅞" air concentrator, air-flare nozzle, and 4-pc. micro cleaning tool kit.

Net Weight	Item No.
2.7 lb.	**5NJJ4**



No. 14F879



No. 14F881



No. 14F821



No. 14F848

Verbatim

Media

Description	Cap.	Speed	Color	Item No.
Flash Drives				
Store 'n' Go USB Flash Drive	8 GB	5 MBps	Red	**14F879**
	16 GB	5 MBps	Red	**14F884**
	32 GB	—	Red	**14F892**
	64 GB	—	Red	**14F896**

Description	Cap.	Item No.
Memory Cards		
CompactFlash Memory Card	4 GB	**14F868**
Premium SDHC Memory Card	4 GB	**14F881**
	8 GB	**14F885**

Description	Cap.	Speed	Time	Item No.	Pkg. Qty.
CDs, DVDs, Blue Rays					
CD-R Disc	700 MB	52x	80 min.	**14F821**	100
DVD+R Disc	4.70 GB	16x	120 min.	**14F848**	100



No. 6PKP2



No. 6PKP5

Logitech

Corded Mouse and Wireless Keyboard Mouse Set

No. 6PKP2—Fingertip control allows fast, accurate back and forth cursor movement. Contoured shape provides comfortable use. Trackball reduces hand and wrist motion.

No. 6PKP5—Spill-resistant board has convenient and essential keys, giving direct access to media, calculator, and battery check functions. Easy to plug and play USB connection. Keyboard extends with adjustable tilt legs. Included contoured-shaped mouse fits comfortably in either palm and provides precise tracking and cursor control.

Corded/ Wireless	Compatible With	Features	Includes	No. of Buttons	Connector Type	Item No.
Optical Trackball Mouse						
Corded	Mac® OS X 10.3.9 and Later, Windows® XP, Vista(TM)	Trackman Mobile Mouse	—	2	USB/PS2	**6PKP2**
Keyboard/Mouse Set						
Wireless	Windows® XP, Vista(TM), 7	Scroll Wheel and 30 ft. Wireless Range	(2) AA (Keyboard) and (1) AAA (Mouse) Batteries	3	USB	**6PKP5**



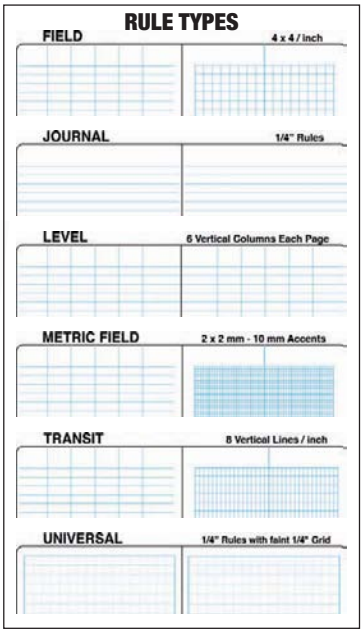
Task Specific
No. 3WHC8



General Purpose
No. 10R352



General Purpose
No. 3WHD3



Rite in the Rain ALL-WEATHER WRITING PAPER



No. 10R312

All-Weather Notebooks, Paper, and Pens

These notebooks withstand work conditions in construction and utilities, agricultural, survey and engineering, forestry, and mining applications. Covers and pages resist water, sweat, oils, grease, and mud.

Rule	Sheet Size	Paper Weight	Backing	Cover Color	Number of Sheets	Item No.	Pkg. Qty.
Task Specific							
Nonwirebound, Fabrikoid Cover							
Field	4¾" x 7½"	32 lb.	Polydura	Yellow	80	**10R341**	1
Level	4¾" x 7½"	32 lb.	Polydura	Yellow	80	**10R340**	1
Metric Field	4¾" x 7½"	32 lb.	Polydura	Yellow	80	**10R342**	1
Transit	4¾" x 7½"	32 lb.	Fabrikoid	Yellow	80	**10R339**	1
Nonwirebound, Field Flex Cover							
Tally	3½" x 8"	20 lb.	Fabrikoid	Yellow	70	**18A107**	1
Nonwirebound, Notebooks with Numbered Pages, Field Flex Cover							
Field	4⅜" x 7"	32 lb.	Fabrikoid	Yellow	24	**38TD89**	3
Level	4⅜" x 7"	32 lb.	—	Yellow	24	**38TD88**	3
Metric Field	4⅜" x 7"	32 lb.	—	Yellow	24	**38TD90**	3
Wirebound, Polydura Cover							
Field	4⅜" x 7"	32 lb.	Polydura	Yellow	32	**3WHC8**	1
Level	4⅜" x 7"	32 lb.	Fabrikoid	Yellow	32	**3WGK9**	1
Metric Field	4⅜" x 7"	32 lb.	Polydura	Yellow	32	**3WHF5**	1
Transit	4⅜" x 7"	32 lb.	Polydura	Yellow	32	**3WGK7**	1
General Purpose							
Nonwirebound, Fabrikoid Cover							
Blank	4¾" x 7½"	32 lb.	Fabrikoid	Yellow	80	**10R352**	1
Journal	4¾" x 7½"	32 lb.	Polydura	Yellow	80	**3WHC4**	1
Nonwirebound, Field Flex Cover							
Universal	3½" x 5"	20 lb.	—	Green	56	**3WGZ5**	1
Universal	3½" x 5"	20 lb.	—	Tan	56	**3WGZ4**	1
Universal	3½" x 6"	20 lb.	—	Green	60	**3WGZ7**	1
Universal	3½" x 6"	20 lb.	—	Tan	60	**3WGZ6**	1
Universal	3½" x 5"	20 lb.	Fabrikoid	Yellow	56	**10R337**	1
Universal	4⅜" x 7¼"	32 lb.	Field Flex	Yellow	64	**10R335**	1
Nonwirebound Notebooks with Numbered Pages, Field Flex Cover							
Journal	4⅜" x 7"	32 lb.	Hard Cover	Yellow	24	**38TD93**	3
Universal	4⅜" x 7"	32 lb.	Polydura	Yellow	24	**38TD91**	3
Wirebound, Polydura Cover							
Journal	4⅜" x 7"	32 lb.	Hard Cover	Yellow	32	**3WHC7**	1
Universal	3" x 5"	20 lb.	Polydura	Yellow	50	**3WHD3**	1
Universal	4" x 6"	20 lb.	Polydura	Yellow	50	**3WHD4**	1
Universal	4⅜" x 7"	32 lb.	Field Flex	Yellow	32	**10R328**	1
Universal	8½" x 11"	32 lb.	Field Flex	Yellow	42	**3WHG3**	1
Wirebound, Top-Spiral, Polydura Cover							
Universal	3" x 5"	20 lb.	—	Green	50	**3WGW7**	1
Universal	3" x 5"	20 lb.	—	Tan	50	**3WGW9**	1
Universal	4" x 6"	20 lb.	—	Green	50	**3WGZ9**	1
Universal	4" x 6"	20 lb.	—	Tan	50	**3WGZ8**	1

Sheet Size	Paper Weight	Brightness	Color	Finish	Total No. of Sheets	Item No.
All Weather Printer Paper						
8½" x 11"	20 lb.	85/91	White	Matte	200	**3XFR7**

Pen Ink Color	Pen Tip	Pen Cap	Barrel Material	Item No.
All-Weather Ballpoint Pens				
Black	0.9mm	Retractable	Metal	**10R312**
Blue	0.9mm	Retractable	Metal	**10R313**
All-Weather Pen Ink Refill, Fine Point				
Black	—	—	—	**3WHD6**

TOPS universal

Lined Notepads



No. 35X014



No. 35X013

- 50 sheets per pad

Lined notepads provide space to organize notes and lists. They are bound at the top for quick access to notes, and are backed with sturdy cardstock for support when writing. They can be used to record measurement, create supply lists, and log hours.

Sheet Size	Rule	Paper Color	Chipboard Backing	Brand	Item No.		Pkg. Qty.
5" x 8"	Narrow	Canary	29 pt	Tops	**35X014**		12
		White	29 pt	Tops	**35X013**		12
		White	30 pt	Tops	**35X007**		12
		White	40 pt	Tops	**35W986**		12
		White	60 pt	Tops	**35W994**		12
8½" x 11"		Canary	30 pt	Universal	**35X065**		12
8½" x 11¾"	Legal	Canary	28 pt	Tops	**35X028**	†	12
		Canary	28 pt	Tops	**35X022**	*	12
		Canary	30 pt	Tops	**35X023**		12
		White	27 pt	Universal	**35X064**		12
		White	28 pt	Tops	**35X025**		12
		White	40 pt	Tops	**35W988**		12

** 2-Hole punch. † 3-Hole punch.*



No. 35X023



No. 35X025

universal

Wirebound Notebook



- 50 sheets per pad

Opens easily and can be doubled-over for convenient handling while recording measurements, creating supply lists, and logging hours in jobsite applications. The sturdy coils are designed to keep from catching on backpacks, papers, or clothing.

Sheet Size	Rule	Paper Color	Item No.	Pkg. Qty.
3" x 5"	Narrow	White	**35X062**	12

Mead Black n' Red
TOPS

Nonwirebound Notebooks



No. 35W834



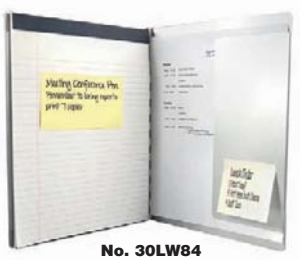
No. 35W809

Smooth binding edges won't snag on clothes or other items. They can be used in jobsite applications to record measurements, create supply lists, and log hours.

Sheet Size	Rule	Paper Color	Cover Color	Cover Material	Total No. of Sheets	Brand	Item No.
7½" x 9¾"	College	White	Black	Cardboard	100	Mead	**35W834**
	Legal	White	Black	Cardboard	100	Mead	**35W833**
8¼" x 5⅜"	Legal	White	Black	Casebound	96	Black N' Red	**35W809**
8¼" x 11¾"	Legal	White	Black	Casebound	96	Black N' Red	**35W808**
7½" x 9¾"	Legal	White	Black Marble	Coated Board 1-Side	100	Tops	**35W956**



No. 6YTT6



No. 30LW84

Portfolios

SAUNDERS "The Clipboard People" samsill VICTOR

Keep notes and writing instruments organized and protected inside covers with a professional appearance. They include notepads and pockets for storing business cards and promotional materials.

Sheet Size	Cover Color	Brand	Item No.
3½" x 5½"	Black	Saunders	**30LW86**
5½" x 8½"	Silver	Saunders	**30LW85**
8½" x 11"	Black	Samsill	**6YTT6**
8½" x 11¾"	Silver	Saunders	**30LW84**
11" x 8½"	Black	Victor	**38Y739**



3 Hole Punch Paper
No. 15U649



Multipurpose Paper
No. 15U674



Laser Paper
No. 15U646



Inkjet Paper
No. 15U662

AbilityOne PROGRAM | Hammermill | universal | universal one | hp

Standard Copy and Printer Paper

Multipurpose Paper—Multipurpose paper can be used in copiers, laser printers, and plain paper fax machines. Its versatility makes it suitable for small business owners sending and processing work orders, invoices, estimates, and receipts.

Laser Paper—Withstands the high-heat process required to fuse powdered ink, or toner, in place via laser printing. Laser paper produces high-quality color images and text on documents such as design proposals, photographs, flyers, and brochures.

Inkjet Paper—Features high surface strength and even porosity to absorb the liquid ink used in inkjet printing processes. Its structure keeps wet ink from spreading and produces crisp lines for high-quality text and images.

Paper Size Name	Sheet Size	Paper Weight	Brightness	Finish	Color	Brand	Item No.	Pkg. Qty.
Three-Hole Punch Paper								
Letter	8½" x 11"	20 lb.	92	Matte	White	Ability One	**31UF71**	10
Letter	8½" x 11"	24 lb.	98	Matte	White	Hammermill	**15U649**	500
Multipurpose Paper								
Letter	8½" x 11"	20 lb.	92	Matte	White	Universal	**24WJ60**	200000
Letter	8½" x 11"	20 lb.	96	Matte	White	Hammermill	**15U643**	5000
Letter	8½" x 11"	20 lb.	98	Matte	Bright White	Universal One	**15U674**	5000
Letter	8½" x 11"	24 lb.	96	Matte	White	Hammermill	**15U644**	5000
Letter	8½" x 11"	28 lb.	100	Matte	Photo White	Hammermill	**15U639**	500
Legal	8½" x 14"	20 lb.	96	Matte	White	Hammermill	**15U645**	500
Legal	8½" x 14"	28 lb.	100	Matte	Photo White	Hammermill	**15U640**	500
Tabloid	11" x 17"	28 lb.	100	Matte	Photo White	Hammermill	**15U641**	500
Laser Paper								
Letter	8½" x 11"	24 lb.	98	Matte	White	Hammermill	**15U646**	500
Letter	8½" x 11"	32 lb.	94	Glossy	White	Hammermill	**15U654**	300
Letter	8½" x 11"	32 lb.	100	Matte	Ultra White	Hp	**15U661**	500
Legal	8½" x 14"	24 lb.	98	Matte	White	Hammermill	**15U647**	500
Tabloid	11" x 17"	24 lb.	98	Matte	White	Hammermill	**15U648**	500
Inkjet Paper								
Letter	8½" x 11"	24 lb.	100	Matte	Bright White	Hp	**15U662**	500

**** 3-Hole punched.***



No. 15U667



No. 19NY55

universal one | Boise | Neenah

Colored Multipurpose Paper



No. 15U676

Suitable for use in both inkjet and laser printers, including copiers and plain paper fax machines. This versatile, matte finish paper is ideal for color-coding documents, such as work orders, invoices, estimates, and receipts for quick identification.

Paper Size Name	Sheet Size	Paper Weight	Color	Brand	Item No.	Pkg. Qty.
Letter	8½" x 11"	20 lb.	Green	Universal One	**15U667**	500
Letter	8½" x 11"	20 lb.	Orchid	Universal One	**15U672**	500
Letter	8½" x 11"	20 lb.	Flashing Ivory™	Boise	**19NY55**	500
Letter	8½" x 11"	20 lb.	Jammin' Salmon™	Boise	**19NY53**	500
Letter	8½" x 11"	24 lb.	Lunar Blue™	Neenah Paper	**15U675**	500
Letter	8½" x 11"	24 lb.	Solar Yellow™	Neenah Paper	**15U676**	500

AbilityOne PROGRAM | hp

No. 15U666



Glossy Finish Photo Paper

Offers a bright photo finish with vibrant white color. This paper is thicker and denser than standard paper, allowing it to absorb ink for high-quality photos and color images. It also dries quickly, which reduces wait times when producing presentation documents and portfolio images.

Paper Size Name	Sheet Size	Paper Weight	Brand	Item No.	Pkg. Qty.
—	4" x 6"	10.5 mil	Hp	**15U664**	100
Letter	8½" x 11"	7 mil	Ability One	**52CE81**	25
Letter	8½" x 11"	8 mil	Hp	**15U666**	50

hp | universal one

Wide Format Paper Rolls



Suitable for printing large-format visuals in high-production CAD, AEC, and GIS segment environments. Rolls can be used with compatible wide-format printers to produce high-quality posters, presentations, and retail displays.

L	W	Paper Weight	Paper Color	Brand	Item No.	Pkg. Qty.
75 ft.	36"	5 mil	Clear	Hp	**19NV81**	1
100 ft.	42"	7.4 mil	White	Hp	**19NV89**	1
127 ft.	4⅜"	—	White	Universal One	**45GZ07**	50
150 ft.	24"	4.2 mil	White	Hp	**19NX38**	1
150 ft.	24"	24 lb.	White	Hp	**19NX34**	1
150 ft.	24"	26 lb.	White	Hp	**19NW99**	1
150 ft.	36"	24 lb.	White	Hp	**19NX08**	1
150 ft.	42"	4.9 mil	White	Hp	**19NW44**	1

We Have Ink and Toner Online

Find OEM and Remanufactured Ink and Toner from HP, Lexmark, Clover Technologies and more at Grainger.com®, search for Ink and Toner Cartridges.



OEM Cartridges



Remanufactured Cartridges

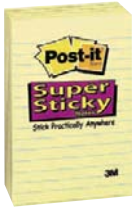


No. 29PK94



No. 2NU75

No. 2NU74





No. 2VZD8

Post-it® Super Sticky Notes

- Ideal for vertical and hard-to-stick places

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
3" x 3"	Unruled	Canary Yellow	90	**29PK94**	12
3" x 3"	Unruled	Marrakesh	90	**2NU75**	5
3" x 3"	Unruled	Rio De Janeiro	90	**29PK95**	12
3" x 5"	Unruled	Canary Yellow	90	**29PL04**	12
4" x 4"	Ruled	Canary Yellow	90	**2NU78**	6
4" x 4"	Ruled	Canary Yellow	90	**1AYC5**	12
4" x 4"	Ruled	Rio De Janeiro	90	**29PL10**	6
4" x 6"	Ruled	Canary Yellow	90	**2NU74**	5
4" x 6"	Unruled	Rio De Janeiro	45	**2NU83**	8
6" x 8"	Unruled	Rio De Janeiro	45	**2NU84**	4
Sticky Notes—Product Contains a Minimum of 30% Post-Consumer Recycled Content					
3" x 3"	Unruled	Bali	90	**2VZD8**	5
4" x 4"	Ruled	Bali	90	**2VZE1**	6



No. 1TRW1



No. 29PL34

Post-it® Pop-Up Note Refills

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
3" x 3"	Unruled	Canary Yellow	90	**1TRW1**	12
Sticky Notes, Original					
3" x 3"	Unruled	Cape Town	100	**29PL34**	12



No. 29PK97



No. 29PL07



No. 29PL01



No. 29PL02

Post-It® Original Notes

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
1½" x 2"	Unruled	Canary Yellow	100	**29PK92**	24
3" x 3"	Unruled	Canary Yellow	100	**29PK96**	18
3" x 3"	Unruled	Cape Town	100	**29PK97**	14
3" x 5"	Unruled	Canary Yellow	100	**29PL05**	24
4" x 4"	Ruled	Canary Yellow	300	**29PL11**	2
4" x 6"	Ruled	Marseille	100	**29PL07**	5
Sticky Notes—Product Contains a Minimum of 30% Post-Consumer Recycled Content					
3" x 3"	Unruled	Canary Yellow	100	**29PL01**	12
3" x 3"	Unruled	Helsinki	100	**29PL02**	12
3" x 5"	Unruled	Canary Yellow	100	**29PL06**	12



No. 29PL17



No. 2VZE8



No. 2VZE9



No. 2UY41



No. 2VZE6



No. 29PL18

Post-it® Flags and "Sign Here" Flags

Size	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Flags				
½" x 1¾"	Assorted Bright and Assorted Primary	35	**29PL17**	10
1" x 1¾"	Orange	50	**2VZE8**	2
1" x 1¾"	Purple	50	**2VZE9**	2
Sticky Flag and Arrow Set				
1" x 1½", ½" x 1¾"	Assorted Bright	96 Arrows, 100 Flags	**2UY41**	1
"Sign Here" Sticky Flags				
½" x 1¾"	Assorted Primary	30	**29PL18**	4
1" x 1¾"	Yellow	50	**2VZE6**	2
"Sign Here" Sticky Arrows				
½" x 1¾"	Red	20	**2VZF2**	4

Scotch® Tapes and Dispenser

- Ideal for permanent paper mending
- Invisible when applied, won't show on copies

Description	W	L	Item No.
Scotch® Magic™ Office Tape			
1 Roll	¾"	36 yd.	**2A684**
6 Rolls	¾"	1000"	**29PL25**
10 Rolls	¾"	1000"	**2NU69**
12 Rolls	¾"	1000"	**29PL21**
16 Rolls	¾"	1000"	**29PL22**
24 Rolls	¾"	1000"	**29PL24**
Scotch® Magic™ Office Tape and Dispenser			
Dispenser and 6 Rolls	¾"	1000"	**29PL19**

Description	W	L	Item No.
Scotch® Desktop Tape Dispenser			
Black with Non-Slip Foam Rubber Base, 1" Core	—	—	**2JCK8**
Scotch® Transparent Office Tape			
3 Rolls	¾"	1000"	**29PK91**



No. 2NU69



No. 29PL19



No. 29PK91


No. 1AYF3


No. 1AYF4


No. 1MLH7

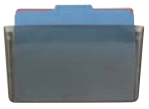

No. 1MLH9


No. 2RLK5


No. 1WDZ9


No. 1WEA2


No. 1WDZ7


No. 1WEA1


No. 1WEA5


No. 2RLH6


No. 1WEA6


No. 1WDZ8

Wall Files

GRAINGER APPROVED

Officemate OIC

Description	Type	No. of Compartments	W	H	D	Color	Brand	Item No.	Pkg. Qty.
Wall Racks									
Steel	Letter	3	12¼"	18⅞"	9"	Black	GA	**1AYF3**	1
Steel	Letter	1	12¼"	10¼"	1⅜"	Black	GA	**1AYF4**	1
Plastic	Letter/Legal	1	16⅝"	8¾"	3⅛"	Black	Officemate	**1MLH7**	1
Plastic	Letter/Legal	1	15¾"	9¾"	3⅛"	Black	Officemate	**1MLH8**	1
Plastic	Letter/Legal	4	16⅝"	27½"	5"	Black	Officemate	**1MLH9**	1
Wall File Back Plate and Hangers	Adjustable	—	2"	12"	½"	Black	Officemate	**2RLK5**	1
Wall Pockets									
Plastic	Letter	3	13"	7"	4⅛"	Black	Officemate	**1WDZ9**	3
Plastic	Letter	1	13"	7"	4⅛"	Black	Officemate	**1WEA2**	1
Plastic	Legal	1	16¾6"	7"	4⅛"	Black	Officemate	**1WEA4**	1
Plastic	Letter	3	13"	7"	4⅛"	Smoke	Officemate	**1WDZ7**	3
Plastic	Letter	1	13"	7"	4⅛"	Smoke	Officemate	**1WEA1**	1
Plastic	Legal	1	16¾6"	7"	4⅛"	Smoke	Officemate	**1WEA3**	1
Plastic w/Magnetic Backing	Letter	1	13"	7"	4⅛"	Smoke	Officemate	**1WEA5**	1
Recycled Plastic	Letter	3	13"	21"	4⅛"	Black	Officemate	**2RLH6**	1
Unbreakable Polycarbonate	Letter/Legal	2	17"	8"	5½"	Clear	Officemate	**1WEA7**	1
Unbreakable Polycarbonate	Letter/Legal	2	17"	8"	5½"	Smoke	Officemate	**1WEA6**	1
Partition Hangers	Adjustable	—	2½"	7¾"	⅝"	Black	Officemate	**1WDZ8**	2


No. 1MLK2


No. 1MLK3


No. 1MLK4


No. 1MLK6


No. 1MLK7


No. 1MLK8


No. 1MLK9


No. 1MLL1


No. 1MLL2


No. 1MLL3


No. 1MLL4

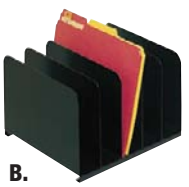
Officemate OIC

SUPPLIER DIVERSITY

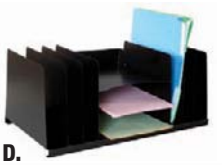
Cubicle Organizers and Accessories

Description	D	W	H	Item No.
Tool Tube	3"	3"	5½"	**1MLK2**
Pencil Cup	2½"	4¼"	5"	**1MLK3**
Utility Tray	3"	12"	3⅜"	**1MLK4**
Photo Frame	⅛"	8"	6"	**1MLK6**
CD/DVD Rack Partition Organizer	1"	6½"	18"	**1MLK7**
Wall File	3"	13½"	7"	**1MLK8**
Cubicle Wall Panel Clip	1"	4½"	2"	**1MLK9**
Certificate Holder	½"	12½"	10"	**1MLL1**
Wall Organizer w/3 Compartments	3¼"	12"	4"	**1MLL2**
Magnetic Dry Erase Board	1"	15⅞"	12⅞"	**1MLL3**
Bulletin Board Cork Bar	⅞"	18⅞"	1⅝"	**1MLL4**


A.


B.


C.


D.


E.


F.

Steel Desktop Organizers

GRAINGER APPROVED
Buddy Products

Key	W	H	L	No. of Compart.	File Size	Brand	Item No.
File Holders							
A	15"	9¼"	8¾"	(4) Horizontal	Legal	GA	**1AYE5**
A	12"	9¼"	8¾"	(4) Horizontal	Letter	GA	**1AYF2**
A	12"	12⅛"	8¾"	(5) Horizontal	Letter	GA	**1DNP5**
A	12"	14¾"	8¾"	(6) Horizontal	Letter	GA	**1AYE9**
A	12"	17¾"	8¾"	(7) Horizontal	Letter	GA	**2KEK8**
B	12"	8⅛"	11"	(5) Vertical	Letter	GA	**1AYE6**
B	15"	8⅛"	11"	(8) Vertical	Letter	GA	**1AYE8**
B	15¾"	7¼"	10¾"	(8) Vertical	Letter	Buddy Products	**49J401**
C	18⅜"	7½"	8⅛"	(8) Vertical	Letter	GA	**1DNP7**
D	21½"	8¾"	11"	(3) Horizontal, (6) Vertical	Letter	GA	**2KEK9**
E	11⅜"	21"	3¾"	(5) Horizontal	Letter	GA	**3MUY4**

Key	W	H	D	No. of Compart.	Brand	Item No.
Desktop Organizers						
F	47¼"	18⅜"	9½"	15 w/3 Adjustable Dividers	GA	**2KEJ8**
F	58¼"	18¼"	9½"	17 w/4 Adjustable Dividers	GA	**2KEJ9**



A.
No. 2WFX3



B.
No. 2WFX5



C.
No. 2WFV5



D.
No. 2WFV6

GA GRAINGER APPROVED

Binder and Bulldog Clips

Key	Size	Holding Cap.	Color	Item No.		Pkg. Qty.
Binder Clips						
A	½"	¼"	Black	**2WFX3**		60
	¾"	⅜"	Black	**2WFX4**		40
	1¼"	⅝"	Black	**2WFX6**		24
	2"	1"	Black	**2WFX8**		12
B	¾"	⅜"	Assorted	**2WFX5**	*	40
	1¼"	⅝"	Assorted	**2WFX7**		24
C	1¾"	⅞"	Silver	**2WFW5**		2
Bulldog Clips						
D	1"W	¼"	Silver	**2WFV6**		36
	1¼"W	7⁄16"	Silver	**2WFV7**		36
	2⅝"W	⅝"	Silver	**2WFV8**		12
	3"W	⅞"	Silver	**2WFV9**		12
E	1¼"W	7⁄16"	Assorted	**2WFW2**		12
	2⅝"W	⅞"	Assorted	**2WFW3**		12
	3"W	1"	Assorted	**2WFW4**		12
F	1"W	1 1⁄16"	Silver	**2WFW6**	*	2

** Magnetic.*



E.
No. 2WFW2



F.
No. 2WFW6

Officemate OIC

Metal Paper Clips

Sold in 10 boxes of 100.

Size	Color	Item No.	Pkg. Qty.
No. 1	Silver	**1WEB7**	1000
Large	Silver	**1WEB8**	1000



No.
1WEB8

WESTCOTT Since 1872®

Rulers

Key	Graduation Type	Graduations	Size	Item No.
Stainless Steel Rulers				
A	Inch/Metric	1⁄16", 1⁄32"	6"	**10F263**
	Inch/Metric	1⁄16", 1⁄32"	12"	**41N636**
	Inch/Metric	1⁄16", 1⁄32"	15"	**10F264**
	Inch/Metric	1⁄16", 1⁄32"	18"	**41N637**
Wood Rulers				
B	Inch	1⁄16"	12"	**41N623**
	English	⅛"	36"	**41N528**
	Inch/Metric	⅛"	36"	**41N529**
Wood Yardstick				
C	Inch/Yard	⅛"	36"	**10F261**
Wood Meter Sticks				
D	Inch/Metric	⅛"	39"	**41N530**
	Inch/Metric	⅛"	39½"	**10F262**



A.
No. 41N636



B.
No. 41N623



C.
No. 10F261



D.
No. 10F262

universal

Rubber Bands

Size	Length	Width	Color	Item No.	Pkg. Qty.
19	3½"	1⁄16"	Beige	**33F198**	1240
32	3"	⅛"	Beige	**33F201**	820
33	3½"	⅛"	Beige	**33F204**	640
64	3½"	¼"	Beige	**33F199**	320
105	5"	⅝"	Beige	**33F196**	55
117	7"	⅛"	Beige	**33F205**	50
117	7"	⅛"	Beige	**33F202**	210



No.
33F198



No.
1JU68



No.
2LTR4



No.
4AZP6



No.
2LTR5

Correction Fluid and Tape

Liquid Paper®

Description	Item No.	Pkg. Qty.
Correction Fluid, Foam Wedge, 22mL	**1JU68**	3
Correction Tape	**2LTR4**	2
Correction Tape	**2LTR5**	2
Dryline® Recycled	**4AZP6**	2
Dryline® Grip	**1TNK7**	2



No. 1TNK7



A.
No. 2WFX1



B.
No. 10F271

GA GRAINGER APPROVED

WESTCOTT Since 1872®

Scissors



C.
No. 41N640



D.
No. 41N621

Key	Handle Description	Blade Material	Overall Length	Item No.	Pkg. Qty.
GA					
A	Hard Grip Black Plastic	Stainless Steel	8"	**2WFX1**	1
	Soft Grip Black Plastic	Stainless Steel	8"	**2WFX2**	1
Westcott					
B	Straight Gray/Yellow ABS/TPR	Nonstick, Titanium Bonded Stainless Steel	7"	**10F270**	1
		Nonstick, Titanium Bonded Stainless Steel	8"	**10F271**	1
	Bent Gray/Yellow Plastic	Nonstick, Titanium Bonded Stainless Steel	8"	**10F272**	1
C	Straight Gray/Yellow ABS/TPR	Titanium Bonded Stainless Steel	5"	**41N641**	1
		Titanium Bonded Stainless Steel	7"	**41N640**	1
		Titanium Bonded Stainless Steel	8"	**41N554**	2
		Titanium Bonded Stainless Steel	8"	**41N638**	1
	Bent Gray/Yellow Plastic	Titanium Bonded Stainless Steel	8"	**10F273**	1
D	Straight Blue Plastic	Stainless Steel	7"	**10F276**	1
	Straight Blue Polypropylene	Stainless Steel	7"	**41N621**	1
	Straight Blue Plastic	Stainless Steel	8"	**10F277**	1
	Bent Blue Plastic	Stainless Steel	8"	**10F278**	1



A.
No. 36WE32



VICTOR

B. No. 36WE33

Easy Read Ruler™

Key	Graduation Type	Graduations	Size	Item No.
Plastic				
A	Inch	¼", ⅛", 1⁄16", 1⁄32"	12"	**36WE32**
Stainless Steel				
B	Inch	¼", ⅛", 1⁄16", 1⁄32"	12"	**36WE33**
	Inch	¼", ⅛", 1⁄16", 1⁄32"	18"	**36WE34**

Officemate OIC

Cubicle Panel Clips

Color	Size	Pkg. Qty.	Item No.
White	1"W	24	**2RLK9**
Assorted	1"W	24	**2RLL1**



No. 2RLL1

GA GRAINGER APPROVED

Officemate OIC

Push Pins



No.
2WFW7



No. 2WFW9

Color	L	H	W	Item No.	Pkg. Qty.
Push Pins					
Clear	½"	—	—	**1WEA9**	1200
Assorted	1"	13⁄16"	—	**2WFW7**	100
Transparent Assorted	⅞"	¾"	—	**2WFW8**	100
Magnetic Tacks					
Assorted	—	¾	½	**2WFW9**	30


No. 24Y084


No. 24Y083


No. 1UEB1


No. 24Y085


No. 35Y644


No. 35Y658


No. 2WFT1


No. 2WFT3


No. 2WFR8


No. 2WFR9


No. 2WFR5


No. 2WFR7


No. 24Y087


No. 24Y081


No. 2VZF7


No. 2VZG1


No. 2VZG6


No. 24Y090


No. 1UEB3


No. 35Y669

Swingline

STANLEY BOSTITCH

GA GRAINGER APPROVED


No. 35Y667


No. 35Y653


No. 35Y659

Staplers and Accessories


No. 2WFR2

Sheet Cap.	Throat Depth	For Use With	Brand	Item No.
Electric Staplers				
20	¼ to 1½"	¼" Standard Staples	Swingline	**24Y084**
45	¼ to 1½"	Optima™ Premium Staples	Swingline	**24Y083**
30	¼ to ¾"	¼" Cartridge Staples	Swingline	**1UEB1**
30	¼ to ¾"	¼" Cartridge Staples	Swingline	**24Y085**
25	½"	¼" Standard Staples	Stanley Bostitch	**35Y644**
45	½"	¼" B8 Powercrown Staples	Stanley Bostitch	**35Y658**
Manual Staplers				
20	3¼"	¼" Staples	GA	**2WFT1**
20	2⅜"	¼" Staples	GA	**2WFT3**
15	2"	¼" Staples	GA	**2WFR8**
15	2"	¼" Staples	GA	**2WFR9**
25	2"	¼" Staples	GA	**2WFR5**
100	2¾"	⅜, ½" Staples	GA	**2WFR7**
Manual Standard Staplers				
20	3⅝"	¼" Staples	Swingline	**24Y087**
Manual Commercial Desk Staplers				
20	4"	¼" Staples	Swingline	**24Y081**
Manual Staplers				
25	3⅛"	¼" Staples	Swingline	**2VZF7**
20	4"	¼" Staples	Swingline	**2VZG1**
70	2¼"	Optima™ High Capacity Staples	Swingline	**2VZG6**
160	2⅜"	Heavy-Duty Staples (½", ¼", ¾", ⅜", ⅝")	Swingline	**24Y090**
120	2¾"	⅝" Heavy-Duty Staples	Swingline	**1UEB3**
20	2½"	¼" Staples	Stanley Bostitch	**35Y669**
45	2½"	⅜" or ¼" Staples	Stanley Bostitch	**35Y667**
130	2⅜"	Heavy-Duty Staples (½", ¼", ⅜", ⅝")	Stanley Bostitch	**35Y653**
215	2¾"	Heavy-Duty Staples (½", ⅜", ⅝", 13⁄16", 15⁄16")	Stanley Bostitch	**35Y659**

	Staple Type	Leg Length	Brand	Item No.	Pkg. Qty.
Staples					
	Standard	¼"	GA	**2WFU4**	5000
	Heavy-Duty	½"	GA	**2WFU5**	1000
	Heavy-Duty	⅝"	GA	**2WFU6**	1000
	Standard, Chisel Point	¼"	Swingline	**2VZG5**	5000
	Optima(TM) High Capacity	⅜"	Swingline	**2VZG7**	2500
	Optima(TM) Premium, Chisel Point	¼"	Swingline	**24Y092**	3750
	Heavy-Duty, Chisel Point	⅝"	Swingline	**1UEB4**	2500
	Cartridge, Chisel Point	¼"	Swingline	**1UEB2**	5000
	High-Capacity Premium Cartridge, Flat Clinch, Chisel Point	⅜"	Swingline	**2VZG3**	5000
	B8 Powercrown	¼"	Stanley Bostitch	**35Y686**	5000
	Chisel Point Heavy-Duty	½"	Stanley Bostitch	**35Y690**	1000
	B8 Powercrown	⅜"	Stanley Bostitch	**35Y683**	5000
	Heavy-Duty	⅜"	Stanley Bostitch	**35Y687**	5000

Description	Brand	Item No.	Pkg. Qty.
Staple Removers			
Pinch Style	GA	**2WFR2**	3
Lever Style	GA	**2WFR3**	1


No. 2WFT9


No. 6HKC1


No. 1MLJ7


No. 24Y099


No. 1UEB6


No. 2WFT6


No. 1MLJ8


No. 1MLJ9


No. 24Y097


No. 1UEB5


No. 24Y096


No. 2VZF9

Paper Punches

GA GRAINGER APPROVED

SIRCLE CORP

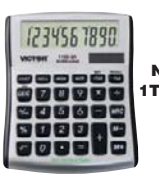
Swingline

GBC

Description	Sheet Cap.	Brand	Item No.
One-Hole Paper Punch	6	GA	**2WFT9**
Heavy-Duty Slot Hole Paper Punch	12	Sircle	**6HKC1**
Two-Hole Paper Punch	50	Officemate	**1MLJ7**
Two- to Three-Hole Paper Punch	10	Swingline	**24Y099**
Two- to Seven-Hole Paper Punch	20	Swingline	**1UEB6**
Three-Hole Paper Punch	40	GA	**2WFT6**
Three-Hole Paper Punch	40	Officemate	**1MLJ8**
Three-Hole Paper Punch	45	Officemate	**1MLJ9**
Two- to Seven-Hole Paper Punch	32	Swingline	**24Y097**
Three-Hole Paper Punch	40	Swingline	**1UEB5**
Two- to Three-Hole Electric Paper Punch	24	GBC	**24Y096**
Three-Hole Electric Paper Punch	50	Swingline	**2VZF9**


No. 1TLV5


No. 1TLV1


No. 1TLV9


No. 36WE05

No. 2TVZ4

No. 1TLU8

No. 1TLU9

No. 35W792

No. 35W793

LCD Calculators

VICTOR

Texas Instruments

Description	Display Digits	L	W	Brand	Item No.
Pocket	8	4"	2½"	Victor	**1TLV5**
Pocket	8	4¼"	2¼"	Victor	**1TLV1**
Desktop	10	5"	4½"	Victor	**1TLV9**
Desktop	12	6"	7½"	Victor	**36WE05**
Water-Resistant	12	6½"	4¼"	Victor	**2TVZ4**
Executive Desktop	12	7¾"	6"	Victor	**1TLU8**
Scientific	10	6"	3"	Victor	**1TLU9**
Minidesk	8	5⅜"	4⅛"	Texas Instruments	**35W792**
Scientific	10	6"	3⅛"	Texas Instruments	**35W793**

Pendaflex
universal
universal one

File Folders and Hanging File Folders



No. 6XWD2

No. 6XWF0

Description	Color	Tab Cut	Expanded Width	Brand	Item No.	Pkg. Qty.	
File Folders							
Top Tab File Folders							
Letter	Manila	1/3	3¼"	Universal	**6XWF0**	100	
Interior File Folders							
Letter	Manila	1/3	3¼"	Universal	**6XWD7**	100	*
Letter	Assorted	1/3	3¼"	Universal	**6XWD4**	100	*
Letter	Blue	1/3	3¼"	Universal	**6XWD5**	100	*
Letter	Green	1/3	3¼"	Universal	**6XWD6**	100	*
Letter	Red	1/3	3¼"	Universal	**6XWD8**	100	*
Letter	Violet	1/3	3¼"	Universal	**6XWD9**	100	*
Letter	Yellow	1/3	3¼"	Universal	**6XWE0**	100	*
Pressboard Classification File Folders							
Letter, 4-Section	Light Green	2/5	2"	Pendaflex	**23K460**	10	
Letter, 4-Section	Red	2/5	2"	Pendaflex	**23K466**	10	
Letter, 6-Section	Light Green	2/5	2"	Pendaflex	**23K422**	10	
Letter, 6-Section	Red	2/5	2"	Pendaflex	**23K358**	10	
Legal, 4-Section	Light Green	2/5	2"	Pendaflex	**23K748**	10	
Legal, 4-Section	Red	2/5	2"	Pendaflex	**23K625**	10	
Legal, 6-Section	Light Green	2/5	2"	Pendaflex	**23K532**	10	
Legal, 6-Section	Red	2/5	2"	Pendaflex	**23K444**	10	
Hanging File Folders							
Hanging File Folders							
Letter	Standard Green	—	¾"	Universal	**6XWD2**	25	
Legal	Standard Green	—	¾"	Universal	**6XWD3**	25	
Hanging Box Bottom File Pockets							
Letter	Standard Green	—	3½"	Universal	**6XWE1**	10	
Bright Colors Hanging File Folders							
Letter	Assorted	—	¾"	Universal One	**6XWC6**	25	
Letter	Blue	—	¾"	Universal One	**6XWC7**	25	
Letter	Green	—	¾"	Universal One	**6XWC8**	25	
Letter	Red	—	¾"	Universal One	**6XWC9**	25	
Letter	Violet	—	¾"	Universal One	**6XWD0**	25	
Letter	Yellow	—	¾"	Universal One	**6XWD1**	25	
Hanging Folder Plastic Tabs							
Angled, 2¼"W	Clear	—	—	Universal	**6XWE2**	25	
Angled, 3½"W	Clear	—	—	Universal	**6XWE3**	25	
SpeedFrame™ Hanging File Folder Frame							
8½"H x 11 or 14"W	Rust-Proof Steel	—	—	Pendaflex	**23K370**	1	

** Tabs shorter to fit in hanging file folders.*



No. 1WEB2



No. 6HCH7



No. 6HCH4



No. 1DPB7

Officemate OIC · ELMER'S · INSTANT Krazy GLUE · DAP · SUPPLIER UNIVERSITY

Glues and Adhesives

Description	Size	Item No.	Pkg. Qty.
Officemate			
Glue Stick	1.3 oz.	**1WEB2**	12
Elmer's			
Glue, Extra Strength	0.88 oz.	**6HCH6**	12
Glue-All® Glue	7.625 oz.	**6HCH7**	1
Glue-All® Glue	1 gal.	**6HCJ3**	1
Rubber Cement	8 oz.	**6HCJ4**	1
	1 qt.	**6HCJ5**	1
Krazy Glue			
Instant Krazy® Glue	0.07 oz.	**6HCH4**	1
	0.07 oz.	**6HCH5**	4
DAP			
BLUESTIK™ Adhesive Putty	1 oz.	**1DPB7**	1
STRONGSTIK™ Instant Grab Adhesive	5 fl. oz.	**1DPB6**	1



No. 2LJH5 · No. 2LJK1



No. 24Y197 · No. 2LJR6

Polypropylene 3-Ring Binders

wilson jones

Binders are made with polypropylene with an inner pocket on each side. Binders with view-sleeve cover feature clear sleeves on the front, back, and spine.

Ring Size	Durability	BLACK Item No.	WHITE Item No.
3-Ring Binder w/Round Ring & Clear Sleeve Cover			
½"	Standard	**2LJH2**	**2LJH3**
1"	Standard	**2LJH4**	**2LJH5**
1½"	Standard	**2LJH6**	**2LJH7**
2"	Standard	**2LJH8**	**2LJH9**
3"	Standard	**2LJJ1**	**2LJJ2**

Ring Size	Durability	BLACK Item No.	BLUE Item No.
3-Ring Binder w/Round Ring & Plain Cover			
½"	Standard	**2LJJ3**	**2LJJ4**
1"	Standard	**2LJJ5**	**2LJJ6**
1½"	Standard	**2LJJ7**	**2LJJ8**
2"	Standard	**2LJJ9**	**2LJK1**
3"	Standard	**2LJK2**	**2LJK3**

Ring Size	Durability	BLACK Item No.	WHITE Item No.
3-Ring Binder w/D-Ring Ring & Clear Sleeve Cover			
1"	Standard	**2LJR2**	**2LJR3**
1½"	Standard	**2LJR4**	**2LJR5**
2"	Standard	**2LJR6**	**2LJR7**
3"	Standard	**2LJR8**	**2LJR9**
4"	Standard	**2LJT3**	**2LJT4**
5"	Standard	**2LJT1**	**2LJT2**
1"	Heavy Duty	**24Y190**	**24Y191**
1½"	Heavy Duty	**24Y192**	**24Y193**
2"	Heavy Duty	**24Y194**	**24Y195**
3"	Heavy Duty	**24Y196**	**24Y197**
4"	Heavy Duty	**24Y198**	**24Y199**
5"	Heavy Duty	**24Y201**	**24Y202**

C-LINE® PRODUCTS, INC.

No. 1PRR2



Binder Sheet Protectors

Provide durable storage for documents and reference material. No need to punch sheets and photo copies will not stick.

Description	Thickness	W	H	Item No.	Pkg. Qty.
Sheet Protectors					
Clear	2 mil	8½"	11"	**1PRR2**	50
Nonglare	2 mil	8½"	11"	**1PRR3**	50
Antimicrobial	3 mil	8½"	11"	**1PRR1**	100
Specialty	2 mil	8½"	11"	**2TDC7**	50
Sheet Protector Set, Top Load, 8 Insertable Index Tabs					
Clear Tabs	3 mil	8½"	11"	**1PRR7**	8
Multicolor Tabs	3 mil	8½"	11"	**1PRR6**	8

QUALITY PARK PRODUCTS

Kraft Coin and Small Parts Envelopes

- Gummed flap
- Light brown color

No. 23K930



H	W	Item No.	Pkg. Qty.
Kraft			
2¼"	3½"	**23K930**	500
2½"	4¼"	**23K990**	500
3⅛"	5½"	**23L032**	500
2¼"	3½"	**23K955**	500
2½"	4¼"	**23K963**	500
2⅞"	5¼"	**23L084**	500
3⅛"	5½"	**23K989**	500
3⅜"	6"	**23L031**	500
3½"	6½"	**23K949**	500

Mailer Envelopes

GRAINGER APPROVED

- Self-seal



No. 36DY91 · No. 36DZ01

Lining	W	L	Color	Item No.	Pkg. Qty.
Polyethylene					
—	6"	9"	White	**36DZ01**	1000
—	12"	15½"	White	**36DZ04**	500
Kraft Paper					
Bubble	6"	10"	Kraft	**36DY91**	250
Bubble	8½"	12"	Kraft	**36DY95**	100

AVERY

Index Tab Dividers

- 8½" x 11", 3-hole punched



No. 6XVU3



No. 6XVU6



No. 6XVX0


No. 6XVX8


No. 6XVX4


No. 6XVU0

Description	No. of Tabs	Index Tab Color	Mfr. Model	Item No.
Index Maker® Print and Apply Clear Label Dividers for Laser and Inkjet Printers				
Print-On	5	White	7278211416	**6XVU3**
Print-On	8	White	7278211417	**6XVU4**
Ready Index® Customizable Table of Contents Dividers for Laser and Inkjet Printers				
A to Z Tabs	26	Multicolor	7278211125	**6XVU8**
Jan. to Dec. Tabs	12	Multicolor	7278211127	**6XVU9**
Numbered 1-5	5	Multicolor	7278211131	**6XVU5**
Numbered 1-5	5	White	7278211130	**6XVX0**
Numbered 1-8	8	Multicolor	7278211133	**6XVU6**
Numbered 1-8	8	White	7278211132	**6XVX1**
Numbered 1-31	31	Multicolor	7278211129	**6XVU7**

Description	No. of Tabs	Index Tab Color	Mfr. Model	Item No.
Big Tab™ Insertable Buff Colored Dividers with Gold Reinforced Binding Edge for Laser and Inkjet Printers				
Inserts for Laser/Inkjet	5	Clear	7278211110	**6XVX9**
Inserts for Laser/Inkjet	5	Multicolor	7278211109	**6XVX8**
Inserts for Laser/Inkjet	8	Clear	7278211112	**6XVY1**
Inserts for Laser/Inkjet	8	Multicolor	7278211111	**6XVY0**
Write and Erase Dividers with Gold Reinforced Binding Edge				
Write-On	5	Multicolor	7278223076	**6XVX5**
Write-On	5	White	7278223075	**6XVX4**
Write-On	8	Multicolor	7278223079	**6XVX7**
Write-On	8	White	7278223078	**6XVX6**
Office Essentials™ Preprinted Buff Colored Tab Dividers				
A to Z Tabs	25	Black	7278211483	**6XVU0**
Jan. to Dec. Tabs	12	Black	7278211484	**6XVU1**
Numbered 1-31	31	Black	7278211485	**6XVU2**



No. 5NHF3



No. 5NHH2



No. 5NHH7



No. 5NHK8



No. 5NHG8



No. 5NHG3



No. 5NHL2

AVERY

Printer Labels



No. 5NHL3



No. 5NHL7



No. 5NHL5



No. 5NHL8



No. 5NHN2



No. 5NHN5

TrueBlock®—Totally opaque labels completely cover old labels and markings to allow re-use of mailing tubes, boxes, and more.

WeatherProof™—Durable polyester labels have an extra-strong adhesive that resists the moisture, scuffing, tearing, and smudging that can occur in many harsh environments.

Repositionable—Can be removed and reapplied without damaging the label or envelope. Labels become permanent over time and are guaranteed to not fall off.

EcoFriendly—All label paper and packaging consists of 100% recycled materials using chlorine-free processes that are still 100% recyclable. Soy- and vegetable-based inks are derived from renewable sources.

Easy Peel®—Simply bend the sheet to expose the Pop-up Edge™ for fast peeling.

Permanent—Holds tight to many surfaces for permanent labeling, unless otherwise noted.

Removable—Labels stick, stay, and can be removed cleanly without leaving any residue.

Color	H	W	Labels per Sheet	Mfr. Model	Item No.	Pkg. Qty.
Laser Shipping Labels with TrueBlock® Technology						
White	2"	4"	10	7278205163	**5NHF3**	100
	3⅓"	4"	6	7278205164	**5NHF4**	100
	3½"	5"	4	7278205168	**5NHF5**	100
	5½"	8½"	2	7278205126	**5NHF6**	100
	11"	8½"	1	7278205165	**5NHF7**	100
	8½"	11"	1	727825265	**5NHF2**	25
Inkjet Shipping Labels with TrueBlock® Technology						
White	2"	4"	10	727828463	**5NHJ3**	100
	5½"	8½"	2	727828126	**5NHJ1**	25
	8½"	11"	1	727828165	**5NHJ2**	25
WeatherProof™ Durable Laser Labels with TrueBlock® Technology						
White	1"	2⅝"	30	727825520	**5NHH1**	50
	1⅓"	4"	14	727825522	**5NHH2**	50
	2"	4"	10	727825523	**5NHH3**	50
	3⅓"	4"	6	727825524	**5NHH4**	50
	5½"	8½"	2	727825526	**5NHH5**	50
Repositionable Laser Labels						
White	1"	2⅝"	30	7278255160	**5NHH6**	100
	2"	4"	10	7278255163	**5NHH7**	100
	3⅓"	4"	6	7278255164	**5NHH8**	100
EcoFriendly Easy Peel® Laser/Inkjet Labels						
White	½"	1¾"	80	7278248467	**5NHK7**	100
	1"	2⅝"	30	7278248460	**5NHK8**	100
	1⅓"	4"	14	7278248462	**5NHK9**	100
	2"	4"	10	7278248163	**5NHL0**	100
	3⅓"	4"	6	7278248464	**5NHL1**	100
Easy Peel® Laser Mailing Labels						
Clear	1"	2⅝"	30	727825660	**5NHG6**	50
	1"	4"	20	727825661	**5NHG7**	50
	1⅓"	4"	14	727825662	**5NHG8**	50
	2"	4"	14	727825663	**5NHG9**	50
	3⅓"	4"	6	727825664	**5NHH0**	50
Easy Peel® Inkjet Mailing Labels						
Clear	½"	1¾"	80	727828667	**5NHK2**	25
	1"	2⅝"	30	727828660	**5NHK3**	25
	1⅓"	4"	14	727828662	**5NHK4**	25
	2"	4"	10	727828663	**5NHK5**	25
	8½"	11"	1	727828665	**5NHK6**	25

Color	H	W	Labels per Sheet	Mfr. Model	Item No.	Pkg. Qty.
Easy Peel® Laser Address Labels						
White	½"	1¾"	80	7278205167	**5NHG2**	100
	½"	1¾"	80	727825267	**5NHF8**	25
	1"	2⅝"	30	7278205160	**5NHG3**	100
	1"	4"	20	7278205161	**5NHG4**	100
	1⅓"	4"	14	7278205162	**5NHG5**	100
Easy Peel® Inkjet Address Labels						
White	⅔"	1¾"	60	727828195	**5NHJ5**	25
	1"	2⅝"	30	727828460	**5NHJ9**	100
	1"	2⅝"	30	727828160	**5NHJ6**	25
	1"	4"	20	727828461	**5NHK0**	100
	1⅓"	4"	14	727828462	**5NHK1**	100
Dot Matrix Printer Mailing Labels						
White	15⁄16"	3/1-2"	1	7278204013	**5NHL2**	5000
Clear Laser/Inkjet File Folder Labels						
Clear	⅔"	3 1⁄16"	30	7278205029	**5NHL3**	15
Permanent Laser/Inkjet File Folder Labels with TrueBlock® Technology						
White	⅔"	3 1⁄16"	30	727828366	**5NHL6**	25
Blue, Green, Red, White, Yellow	⅔"	3 1⁄16"	30	727825266	**5NHL7**	25
Extra-Large Laser/Inkjet File Folder Labels with TrueBlock® Technology						
White	15⁄16"	3 1⁄16"	18	7278205027	**5NHL5**	25
Blue, Green, Purple, Red, Yellow	15⁄16"	3 1⁄16"	18	7278205026	**5NHL4**	25
EcoFriendly Laser/Inkjet File Folder Labels						
White	⅔"	3 1⁄16"	30	7278245366	**5NHL8**	50
Permanent Durable Laser ID Labels with TrueBlock® Technology						
White	⅝"	3"	32	727826577	**5NHN1**	50
	1¼"	1¾"	32	727826576	**5NHN0**	50
	2"	2⅝"	15	727826578	**5NHN2**	50
	5"	8⅛"	2	727826579	**5NHN3**	50
Flexible Self-Adhesive Laser/Inkjet Removable Name Badge Labels						
White with Blue Border	2⅓"	3⅜"	8	727825895	**5NHN5**	50
White	2⅓"	3⅜"	8	727825395	**5NHN4**	50





No. 52XJ15



No. 36EA39



No. 4YDC4

Message and Date Stamps

COSCO

These self-inking stamps feature a shutter mechanism for one-handed operation. Predefined with Multiple Message Options allow users to select from standard office messages along with numbers that can be adjusted according to day, month, and year.

Legend	Stamp Ink Color	Material	Imprint Area H	Imprint Area W	No. of Bands	Item No.
Predefined Single Message						
DATE	Red	Plastic	1 13/16"	1"	4	**52XJ15**
FAXED	Red, Blue	Metal	5/32"	1"	4	**4YDC9**
PAID	Red, Blue	Metal	5/32"	1"	4	**4YDC8**
RECEIVED	Red	Plastic	1 13/16"	1"	4	**52XJ14**
RECEIVED	Red, Blue	Metal	5/32"	1"	4	**4YDC7**
Predefined with Multiple Message Options						
ANSWERED, BALANCE, CANCELLED, CHARGED, C.O.D., ENTERED, FILLED, FILED, PAID, RECEIVED,RETURNED, SHIPPED	Black	Metal	1/4"	1 3/4"	5	**4YDD1**
COMPLETED, EMAILED, ENTERED, SCANNED	Red, Blue	Plastic	1"	1 3/4"	5	**36EA39**
ENTERED, FAXED, PAID, RECEIVED	Red, Blue	Metal	5/32"	1"	5	**4YDC4**

Numbering Stamps

COSCO Officemate OIC

Bands of numbers and special characters can be configured for custom identification. Self-inking numbering stamps automatically apply fresh ink to the stamp after each use, so they can be operated one-handed and don't require separate ink pads. The stamp's housing is made of metal.

No. of Bands	Imprint Area H	Imprint Area W	Overall L	Overall W	Brand	Item No.
Self-Inking Machine Stamp						
6	3/16"	3/4"	5 3/8"	2 13/16"	Cosco	**1CZV6**
	1/4"	1"	2"	2 1/2"	Officemate	**1WEB4**
Ink Pad Required Stamp						
6	1/8"	13/16"	1 1/8"	3"	Cosco	**1CZN8**
	1/8"	13/16"	1 3/8"	5 1/2"	Cosco	**1CZR5**
	3/16"	13/16"	1 1/2"	3 3/8"	Cosco	**1CZP2**
	3/16"	13/16"	2 1/4"	5 1/2"	Cosco	**1CZR8**
	1/4"	13/4"	2 1/8"	4 1/4"	Cosco	**1CZP5**
	5/16"	1 1/8"	3"	5"	Cosco	**1CZP8**
	1/2"	2 11/16"	4"	7 1/8"	Cosco	**1CZR2**
8	1/8"	1 1/8"	1 3/8"	3"	Cosco	**1CZN9**
	3/16"	1 5/8"	2"	3 3/8"	Cosco	**1CZP3**
	1/4"	2 1/4"	2 3/4"	4 1/4"	Cosco	**1CZP6**
	5/16"	2 1/2"	3"	5"	Cosco	**1CZP9**
	1/2"	3 9/16"	4 1/4"	7 1/8"	Cosco	**1CZR3**
10	1/8"	1 7/16"	1 5/8"	3"	Cosco	**1CZP1**
	1/8"	1 7/16"	2 1/4"	5 1/2"	Cosco	**1CZR7**
	3/16"	2 1/16"	2 1/2"	3 3/8"	Cosco	**1CZP4**
	3/16"	2 1/16"	4 1/2"	7 1/2"	Cosco	**1CZT1**
	1/4"	2 1/8"	2 3/4"	4 1/4"	Cosco	**1CZP7**
	1/4"	2 13/16"	4 1/2"	7 1/2"	Cosco	**1CZT4**
	5/16"	2 3/4"	4 1/2"	7 1/2"	Cosco	**1CZT7**
	5/16"	3 1/4"	4"	5"	Cosco	**1CZR1**
	1/2"	4 1/2"	5 3/8"	7 1/8"	Cosco	**1CZR4**



No. 1WEB4



No. 1CZN8



No. D3766



No. D3767



No. D3769



No. D3768

Message Stamps

COSCO

Self-inking rubber stamps are used to print predefined messages. They have a shutter mechanism for one-handed operation. Housing is made of plastic.

▶CHOOSE: Legend	Stamp Ink Color	Imprint Area Height	Imprint Area Width	Item No.
APPROVED, COMPLETED, COPY, DEPOSIT, E-MAILED with line, ENTERED, ORIGINAL, VOID	Blue	1/2"	1 5/8"	**D3769**
CONFIDENTIAL, COPY, VOID	Blue	1/2"	1 1/2"	**D3766**
CONFIDENTIAL, DRAFT, FAXED with Box, FILE, FRAGILE, MAILED with line, PAID, PAST DUE, POSTED with Box, PRIORITY, RECEIVED with Box, REVISED with Box, RUSH, URGENT	Red	1/2"	1 5/8"	**D3768**
ENTERED, FAXED, PAID, POSTED, RECEIVED	Red	1/2"	1 1/2"	**D3767**
SCANNED	Red	15/16"	1 3/4"	**D3768**

Pad Required Alphanumeric Stamps

COSCO

Bands of numbers, letters, and punctuation marks can be configured in any combination for custom messages or identification. Housing is made of metal.

No. of Bands	Character Height	Imprint Area H	Imprint Area W	Overall L	Overall W	Item No.
8	1/8"	1/8"	1 3/16"	5 3/4"	1 3/8"	**1CZT9**
	3/16"	3/16"	1 5/8"	8 1/2"	2 1/2"	**1CZU4**
10	1/8"	1/8"	1 7/16"	5 3/4"	1 1/2"	**1CZU1**
	3/16"	3/16"	2 1/16"	8 1/2"	2 3/4"	**1CZU5**
	1/4"	1/4"	2 1/4"	9"	2 13/16"	**1CZU9**
12	1/8"	1/8"	1 1/2"	5 3/4"	2-1-2"	**1CZU2**
	3/16"	3/16"	2 9/16"	8 1/2"	3"	**1CZU6**
	1/4"	1/4"	2 13/16"	8 3/4"	4 1/4"	**1CZV1**
	5/16"	5/16"	3 3/8"	10 1/2"	3 5/8"	**1CZV5**



No. 1CZT9

AAAAAAAA

Stamp Pads and Ink Refills

COSCO

Pads—Saturated with ink, these felt pads are used with rubber stamps to date and number invoices, or to apply seals to official documents. They are enclosed in resealable cases to prevent ink from drying out. They can be replenished with compatible ink refills.

Refills—Replenish and extend the life of compatible ink pads, self-inking stamps, and pre-inked stamps.



Ink Pad No. 1DAA3

Overall Length	Overall Width	Overall Height	BLACK Item No.	BLUE Item No.	RED Item No.
Stamp Ink Pads					
4 1/4"	2 3/4"	1/4"	—	1DAA5	—
4 1/4"	2 3/4"	1/2"	—	—	1DAA4
4 1/4"	2 3/4"	1/2"	1DAA3	—	—
6 1/4"	3 1/2"	5/8"	1DAA6	1DAA8	1DAA7

Size	Pkg. Qty.	BLACK Item No.	BLUE Item No.	RED Item No.
Stamp Ink Refills				
For Pre-Inked Stamps Including Accustamp2				
0.35 oz.	1	1CZZ8	1CZZ9	1DAA1
0.35 oz.	2	—	—	1DAA2
For Self-Inking and Traditional Style Stamps				
0.9 oz	1	1CZZ7	1CZZ6	1CZZ5



Ink Refill No. 1CZZ7

Date Stamps

COSCO

Print configurable dates on documents. Self-Inking and pre-inked date stamps can be maintained with compatible black ink refills.

Stamp Date Range	Material	Imprint Area H	Imprint Area W	Item No.
Self-Inking				
Jan 01 2019 - Dec 31 2024	Metal	5/32"	1/8"	**1DAB1**
	Metal	5/32"	1"	**4YDD4**
	Metal	3/16"	1 1/4"	**1DAA9**
	Metal	3/16"	1 1/2"	**4YDD3**
	75% Recycled Plastic and Metal	1/8"	1"	**3RAP6**
Jan 01 2019 - Dec 31 2025	Plastic	5/32"	1"	**52XJ13**
Ink Pad Required				
Jan 01 2019 - Dec 31 2024	Metal	3/16"	1 1/4"	**1CZV8**



No. 4YDD3





No. 1CZV8



Wooden
No. 31UF11



Wooden
No. 6NEC6



Mechanical
No. 2LUC7

Mechanical
No. 1XUZ4



Mechanical
No. 2LTU4



Mechanical
No. 1JU67

DIXON · AbilityOne PROGRAM · Paper Mate · universal · Pentel · ZEBRA · BIC · Rite in the Rain ALL-WEATHER WRITING PAPER

Pencils

Point Size	Barrel Color	Material	Includes Eraser	Brand	Item No.	Pkg. Qty.
Wooden						
#2	Yellow	Wood	No	Dixon	**35Y432**	12
#2	Yellow	Wood	Yes	Ability One	**31UF11**	12
#2 HB	Black	Wood	Yes	Paper Mate	**2LTY8**	12
#2 HB	Yellow	Wood	No	Universal	**6NEC6**	144
#2 HB	Yellow	Wood	Yes	Universal	**6NEC8**	12
Mechanical						
0.5mm	Black	Plastic	Yes	Paper Mate	**2LUC5**	12
0.5mm	Black	Plastic	Yes	Pentel	**35Y437**	1
0.5mm	Black	Plastic	Yes	Pentel	**35Y450**	12
0.5mm	Black, Silver	Plastic, Stainless Steel	Yes	Zebra Pen	**1XUZ4**	1
0.5mm	Burgundy, Green, Navy, Plum	Plastic	Yes	Paper Mate	**2LTU3**	12
0.7mm	Blue	Plastic	Yes	Paper Mate	**2LUC7**	12
0.7mm	Blue, Gray, Green, Red, Yellow	Plastic	Yes	Bic	**35Y430**	12
0.7mm	Blue, Green, Purple, Red, Smoke, Turquoise	Plastic	Yes	Ability One	**35LX12**	12
0.7mm	Burgundy, Green, Navy, Plum	Plastic	Yes	Paper Mate	**2LTU4**	12
0.7mm	Yellow	Plastic	Yes	Paper Mate	**1JU67**	12
0.9mm	Black	Plastic	Yes	Zebra Pen	**2EJW5**	1
0.9mm	Yellow	Plastic	Yes	Bic	**35Y479**	12
0.9mm	Yellow	Plastic	Yes	Pentel	**35Y468**	1
1.1mm	Black	Resin	Yes	Rite In The Rain	**36JH42**	1
1.1mm	Red	Resin	Yes	Rite In The Rain	**426C13**	1
1.1mm	Yellow	Resin	Yes	Rite In The Rain	**426C12**	1



Electric (Battery)
No. 2WFU2



Electric (Plug)
No. 35Y611



Electric (Plug)
No. 2WFU3



Electric (Plug)
No. 35Y610



Electric (Plug)
No. 35Y618



Electric (Plug)
No. 35Y614



Electric (Plug)
No. 41N608



Manual
No. 35Y616

Swingline · GBC · GA GRAINGER APPROVED · STANLEY BOSTITCH · WESTCOTT Since 1872

Pencil Sharpeners

Hole Location	No. of Holes	Color	Housing Material	Brand	Item No.
Electric (Battery)					
Front	1	Gray, Green	Plastic	Swingline	**24Y103**
Top	1	Black	Plastic	GA	**2WFU2**
Electric (Plug)					
Front	1	Black	Hardened Steel	Stanley Bostitch	**35Y611**
	1	Black	Plastic	GA	**2WFU3**
	1	Blue	Hardened Steel	Stanley Bostitch	**35Y610**
	1	Gray	Hardened Steel	Stanley Bostitch	**35Y618**
	1	Gray, Green	Plastic	Swingline	**24Y105**
	1	Gray, Orange	Plastic	Swingline	**24Y104**
	6	Blue	Plastic, Steel	Stanley Bostitch	**35Y615**
Top	1	Black	Plastic, Steel	Stanley Bostitch	**35Y614**
	1	Gray	ABS	Westcott	**41N608**
Manual					
Front	8	Black	Steel Body, Rubber Handle	Stanley Bostitch	**35Y616**



Single-Color
Pen Style
No. 5TCG7



Single-Color
Pen Style
No. 1TNG6



Single-Color
Pocket
No. 1TNG1



Single-Color
Wide
No. 2LTK5



Single-Color
Wide
No. 2LTK1



Multicolor
Original
No. 5TCH0

Sharpie
Standard Highlighters

Barrel Type	Marker Ink Color	Features	Item No.	Pkg. Qty.
Single-Color Highlighter Packs				
Pen Style	Orange	Liquid	**5TCG9**	12
Pen Style	Pink	Liquid	**5TCG8**	12
Pen Style	Pink	Retractable	**1TNG8**	12
Pen Style	Yellow	Liquid	**5TCG7**	12
Pen Style	Yellow	Retractable	**1TNG6**	12
Pocket	Blue	—	**1TNF7**	12
Pocket	Green	—	**1TNG1**	12
Pocket	Orange	—	**1TNF5**	12
Pocket	Pink	—	**1TNF6**	12
Pocket	Yellow	—	**1TNF9**	12
Wide	Blue	Smear Guard	**2LTK6**	12
Wide	Green	Smear Guard	**2LTK4**	12
Wide	Orange	Smear Guard	**2LTK5**	12
Wide	Pink	Smear Guard	**2LTK2**	12
Wide	Purple	Smear Guard	**2LTK7**	12
Wide	Yellow	Smear Guard	**2LTK1**	12



Multicolor
Pocket
No. 1TNG2



Multicolor
Wide
No. 2LTK3



Multicolor
Wide
No. 1TNF4

Barrel Type	Marker Set Ink Colors	Features	Item No.	Pkg. Qty.
Multicolor Highlighter Sets				
Original	Green, Orange, Pink, Yellow, Blue	Liquid	**5TCH0**	5
Pen Style	Yellow, Orange, Green, Pink, Blue, Berry, Indigo, Red	Retractable	**1TNE9**	8
Pen Style	Yellow, Orange, Pink, Blue, Green	Liquid	**1TNF3**	5
Pen Style	Yellow, Orange, Pink, Blue, Green, Purple, Berry, Indigo, Red, Coral	Liquid	**1TNF2**	10
Pocket	Yellow, Orange, Pink, Blue, Green	—	**1TNG2**	5
Wide	Yellow, Green, Orange, Pink, Blue	Smear Guard	**2LTK3**	12
Wide	Yellow, Orange, Yellow, Pink, Blue, Green	Smear Guard	**1TNF4**	6



No. D7947



No. D7946

uni PAINT

Permanent Paint Markers

Oil-based valve-action pens make glossy, opaque markings on light or dark surfaces. Fast-drying paint formula resists spreading and running when in contact with water or water-based fluids. Create bright, permanent marks with superior adhesion on surfaces including steel and iron, aluminum, pipes and tubes, plastics, glass, rubber, and ceramic.

▶CHOOSE: Marking Tool Color Family	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
Blacks, Reds, Blues, Greens, Yellows, Oranges, Whites, Silvers	Medium	D7946	12
Blacks, Reds, Blues, Greens, Yellows, Whites	Fine	D7947	12



Ultra Fine/Fine Tip
No. F5596



Fine/Chisel Tip
No. 4AZL4



Ultra Fine/
Fine Tip
No. 4AZK8



Fine/Chisel
Tip
No. 4AZL3

Sharpie

Twin Tip Markers

Also known as dual-tip, these markers feature bold and fine tips that allow a user to alternate between marking and writing with precision, or creating broad lines that can easily be spotted.

Marker Tip Combination	▶CHOOSE: Marker Ink Color	Item No.	Pkg. Qty.
Single-Colors			
Ultra Fine/Fine	Black, Red, Blue	F5596	12
Ultra Fine/Fine	Black	4AZK7	2
Fine/Chisel	Black	4AZL4	12
Marker Tip Combination	**Marker Set Ink Colors**	**Item No.**	**Pkg. Qty.**
Multicolors			
Ultra Fine/Fine	Black, Blue, Green, Red	4AZK8	4
Fine/Chisel	Black, Blue, Red	4AZL3	3



Fine Tip
No. 4AZL1



Medium Tip
No. 5TCE8



Jumbo Tip
No. 2LTH3



Large Tip
No. 2LTH2

Sharpie

Industrial Markers

Designed to make permanent marks on various surfaces, including metal, wood, plastic, glass, and cardboard. They resist impact in demanding applications.

Marking Tool Color Family	Marking Tool Tip Size Group	Item No.		Pkg. Qty.
Blacks	Fine	4AZL1		12
Blacks	Medium	5TCE8		12
Blacks, Blues, Reds	Large	2LTH2	*	4
Reds	Jumbo	2LTH3		12
Blues	Jumbo	2LTH4		12
Blacks	Jumbo	9LW82		12

** Pack contains 2 black, 1 blue and 1 red marker.*



Bullet Tip
No. 1JU70



Chisel Tip
No. 1JU73



Chisel Tip
No. F8500



Fine Tip
No. 4AZK9



Fine Tip
No. F8631



Fine Tip
No. F8727



Fine Tip
No. 1TNJ8



Ultra Fine Tip
No. D7944

Fine Tip
No. 4AZN2





Ultra Fine Tip
No. 2LTG1

Sharpie

Permanent Markers

Felt tips that transfer permanent inks to writing surfaces and building materials. The fast-drying inks are formulated to be waterproof and smear-resistant, making the markers suitable for transferring measurements and cut lines to glass, wood, stone, metal, and some plastics. They can also be used on surfaces that are too moist, oily, or abrasive for pens or pencils.

Marker Tip	▶CHOOSE: Marker Ink Color	Barrel Type	Item No.	Pkg. Qty.
Single-Color Markers				
Bullet	White, Yellow	Original	D7948	12
Bullet	White	Original	1JU70	1
Chisel	Black	Wide	1JU73	1
Chisel	Black, Blue, Red	Wide	F8500	12
Oversized Chisel	Black	Wide	1JU72	1
Fine	Black	Original	4AZK9	12
Fine	Black, Blue, Green, Purple, Red	Original	F8631	12
Fine	Black, Blue, Red	Original	F8727	12
Fine	Bronze, Gold	Original	K1954	12
Fine	Silver	Original	1TNJ8	12
Ultra Fine	Black, Blue, Red	Original	D7944	12
Marker Tip	**Marker Set Ink Colors**		**Item No.**	**Pkg. Qty.**
Multicolor Marker Sets				
Fine	Black, Blue, Red		4AZN2	3
Fine	Aqua, Berry, Black, Blue, Brown, Green, Lime, Red, Orange, Purple, Red, Turquoise		1JU54	12
Fine	Aqua, Berry, Black, Blue, Green, Lime, Magenta, Navy, Orange, Purple, Red, Turquoise		1TNH6	12
Ultra Fine	Black, Blue, Red		2LTF9	3
Ultra Fine	Aqua, Black, Blue, Green, Lime, Red, Tangerine, Turquoise		2LTG1	8
Ultra Fine	Aqua, Berry, Black, Blue, Brown, Green, Lime, Orange, Purple, Red, Turquoise, Yellow		5TCE7	12



No. F8722

Sharpie DIXON

China Marker

Water-soluble markers are suitable for marking on any porous and nonporous surfaces. Use on cardboard, ceramics, glass, metal, plastic, paper, and wood.

Marking Tool Surface Material	▶CHOOSE: Color	Marking Tool Tip Shape	Brand	Item No.	Pkg. Qty.
Glass, Metal, Plastic	Black, Red, Yellow, White	Bullet	Sharpie	F8722	12
Glass, Plastic, Rubber, Metal, Fabric, Wood, Stone	Green	Bullet	Dixon	35Y041	12



Series Clic Stic®
No. 6NED5



Series F-301®
No. 1XUV4



Series F-402®
No. 2EJW6



Series F-701®
No. 2EJW1



Series FlexGrip® Elite™
No. 2LTW1



Series Lubriglide
No. 2LTU7



Series Profile®
No. 2LTZ2



Series Soft Feel®
No. 35Y374



Series Write Bros®
No. 1JU57



Series Z-Grip
No. 2EJW2

BIC ZEBRA PAPER·MATE

Ballpoint Pens

Pen Ink Color	Pen Tip	Pen Cap	Includes Pen Cushion	Barrel Material	Brand	Item No.	Pkg. Qty.
Series Clic Stic®							
Black	1.0mm	Retractable	No	Plastic	Bic	**6NED5**	12
Blue	1.0mm	Retractable	No	Plastic	Bic	**6NED6**	12
Red	1.0mm	Retractable	No	Plastic	Bic	**6NED7**	12
Series F-301®							
Black	0.7mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**1XUV4**	1
Blue	0.7mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**1XUV5**	1
Series F-402®							
Black	0.7mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**2EJW6**	1
Series F-701®							
Black	0.7mm	Retractable	Yes	Stainless Steel	Zebra Pen	**2EJW1**	1
Series FlexGrip® Elite™							
Black	0.8mm	Retractable	No	Plastic	Paper Mate	**2LTW1**	12
	1.0mm	Retractable	No	Plastic	Paper Mate	**2LTV8**	12
Blue	0.8mm	Retractable	No	Plastic	Paper Mate	**2LTW2**	12
	1.0mm	Retractable	No	Plastic	Paper Mate	**2LTV9**	12
Series Lubriglide							
Black	0.8mm	Retractable	No	Plastic	Paper Mate	**2LTU7**	12
	1.0mm	Retractable	No	Plastic	Paper Mate	**2LTU5**	12
Blue	0.8mm	Retractable	No	Plastic	Paper Mate	**2LTU8**	12
	1.0mm	Retractable	No	Plastic	Paper Mate	**2LTU6**	12
Series Profile®							
Black	1.4mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ2**	12
Blue	1.4mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ3**	12
Purple	1.4mm	Retractable	Yes	Plastic	Paper Mate	**3MNP3**	12
Red	1.4mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ4**	12
Series Soft Feel®							
Black	0.8mm	Retractable	Yes	Plastic	Bic	**35Y374**	12
	1.0mm	Retractable	Yes	Plastic	Bic	**6NED2**	12
Blue	0.8mm	Retractable	Yes	Plastic	Bic	**35Y373**	12
	1.0mm	Retractable	Yes	Plastic	Bic	**6NED3**	12
Red	1.0mm	Retractable	Yes	Plastic	Bic	**6NED4**	12
Series Write Bros®							
Black	0.8mm	Capped	No	Plastic	Paper Mate	**1JU57**	12
Series Z-Grip							
Black	1.0mm	Retractable	Yes	Plastic	Zebra Pen	**2EJW2**	12
Blue	1.0mm	Retractable	Yes	Plastic	Zebra Pen	**2EJW3**	12



Series G2® Premium
No. 35Y296



Series G2® Premium
No. 35Y295



Series G2® Premium
No. 35Y294



Series Paper Mate® Gel
No. 2LTX6



Series Uni Super Ink™
No. 24U028



Series Uni Super Ink™
No. 2LUF9

PILOT PAPER·MATE uni-ball

Gel Pens & Rollerball Pens

- Plastic barrels
- Comfortable cushion grips

Water- and gel-based inks are less viscous than ballpoint inks, offering smoother and bolder writing, but with longer drying time. They are suitable for signing official documents, checks, and work orders.

Pen Ink Color	Pen Tip	Pen Cap	Barrel Color	Brand	Item No.	Pkg. Qty.
Series G2® Premium						
Black	0.5mm	Retractable	Clear	Pilot	**35Y296**	12
	0.7mm	Retractable	Black	Pilot	**6NEC9**	12
	0.7mm	Retractable	Clear	Pilot	**35Y280**	2
	1.0mm	Retractable	Clear	Pilot	**35Y202**	12
Black, Blue, Green, Pink, Purple, Red	0.7mm	Retractable	Black, Blue, Burgundy, Green, Pink, Purple, Red, Turquoise	Pilot	**35Y209**	8
Black, Blue, Red	0.7mm	Retractable	Black, Blue, Red	Pilot	**35Y278**	3
Blue	0.5mm	Retractable	Clear	Pilot	**35Y295**	12
	0.7mm	Retractable	Blue	Pilot	**6NED0**	12
	0.7mm	Retractable	Clear	Pilot	**35Y279**	2
	1.0mm	Retractable	Clear	Pilot	**35Y201**	12
Green	0.5mm	Retractable	Clear	Pilot	**35Y297**	12
	0.7mm	Retractable	Clear	Pilot	**35Y293**	12
Purple	0.5mm	Retractable	Clear	Pilot	**35Y298**	12
	0.7mm	Retractable	Clear	Pilot	**35Y294**	12
Red	0.5mm	Retractable	Clear	Pilot	**35Y299**	12
	0.7mm	Retractable	Red	Pilot	**6NED1**	12
	1.0mm	Retractable	Clear	Pilot	**35Y203**	12
Series Paper Mate® Gel						
Black	0.7mm	Retractable	Black	Paper Mate	**2LTX6**	2
Series Uni Super Ink™						
Black	0.38mm	Retractable	Transparent	Uni-Ball	**24U028**	12
	0.7mm	Capped	Gray	Uni-Ball	**2LUC8**	12
	0.7mm	Retractable	Black	Uni-Ball	**2LUF7**	12
	0.7mm	Retractable	Gray	Uni-Ball	**5TCH1**	12
	1.0mm	Retractable	Black	Uni-Ball	**5TCH3**	12
	1.0mm	Retractable	Transparent	Uni-Ball	**24U024**	12
Blue	0.38mm	Retractable	Transparent	Uni-Ball	**24U029**	12
	0.7mm	Capped	Gray	Uni-Ball	**2LUC9**	12
	0.7mm	Retractable	Black	Uni-Ball	**2LUF8**	12
	0.7mm	Retractable	Gray	Uni-Ball	**5TCH2**	12
	1.0mm	Retractable	Blue	Uni-Ball	**5TCH4**	12
	1.0mm	Retractable	Transparent	Uni-Ball	**24U025**	12
Red	0.7mm	Retractable	Black	Uni-Ball	**2LUF9**	12



No. 36WG09

GRAINGER APPROVED

Post-it Brand



No. 36WG13

Dry-Erase Sheets

Apply on painted drywall or steel, glass, finished wood, resurface existing white-boards, or chalkboards.

Description	H	W	Item No.
Dry-Erase Sheet	36"	48"	36WG09
	48"	72"	36WG10
	48"	96"	36WG11
Dry-Erase Cleaning Cloth	10⅝"	10⅝"	36WG12
Dry-Erase Accessory Tray	5¼"	8⅞"	36WG13
Dry-Erase Wallpaper	96"	48"	49CE70



SMARTSHEETS®

Dry-Erase Sheets on a Roll

Create an instant writing area by clinging to walls, windows, and doors using electrostatic charge. No tape, adhesives, or tacks required. Recyclable plastic film. 40 sheets per box.

Dry-Erase Width	Dry-Erase Height	Item No.
23½"	31½"	5PWH8



No. 32GT57



No. 32GU39



No. 32GT60

Prestige® 2 Connects™ Accessories

quartet.

Attach to the frame of Prestige® 2 whiteboards for added functionality.

Description	Item No.
Marker Holder, Includes 4 EnduraGlide® Markers and 1 Eraser	32GU39
Spray Cleaner Caddy, Includes 16 oz. Bottle and Microfiber Cloth	32GT57
Cork Bulletin Bar, 36"W x 1"H, Brown/Silver	32GT60
Cork Bulletin Bar, 48"W x 1½"H, Brown/Silver	32GT61
Cork Bulletin Bar, 96"W x 1"H, Brown/Silver	32GT63
Plastic Accessory Storage Cup, 3"D, Black	32GT58



No. F8498



No. 1JY11



No. 2LTN9



No. 24U017

Low-Odor Dry-Erase Markers

EXPO

Wipe off from most nonpourous surfaces with one swipe.

Includes	Tip Size	▶CHOOSE: Ink Color (Marker Sets Include All Colors Listed)	Item No.	Pkg. Qty.
Dry-Erase Markers				
—	Chisel	Black, Blue, Red, Green	F8498	12
Dry-Erase Marker Sets				
—	Chisel	Black, Blue, Green, Red	1JU97	4
Eraser	Chisel	Black, Blue, Brown, Green, Orange, Red	1JY11	1
Cleaner, Eraser	Chisel/Fine	Black, Blue, Green, Red, Brown, Orange, Purple, Yellow	1JY10	1
Cleaner, Eraser	Chisel	Black, Blue, Green, Red	2LTN9	1
Caddy and Eraser	Chisel	Black, Blue, Red, Green	24U017	4

EXPO

No. 1JY14



Dry-Erase Accessories

Description	Item No.	Pkg. Qty.
Dry-Erase Board Cleaner, 8 oz.	1JY14	1
Dry-Erase Board Cleaner, 22 oz.	4AZJ6	1
Dry-Erase Board Cleaning Wipes, 6 x 9"	1JY15	50
Dry-Erase Cloth	5NVH6	1
Block Eraser	1JY16	1



Best-Rite®

Frameless Dry-Erase Surfaces

Flexible lightweight magnetic surface lays flat and features a permanent self-adhesive backing for easy installation to any flat surface. Include magnetic accessory tray.

Dry-Erase Height	Dry-Erase Width	Item No.
18"	24"	39A048
24"	36"	39A049
36"	48"	39A050
48"	48"	39A051
48"	72"	39A052
48"	96"	39A053



No. 2RXH8

quartet.

Magnets

Use versatile magnets to post documents or color code important dates on your magnetic board.



No. 2RXH9

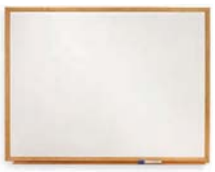
Description	Color	Item No.	Pkg. Qty.
25 Strips, 2""W x ⅛""H	White	2RXH8	25
25 Strips, 6""W x ⅛""H	White	2RXH9	25



Silver
No.2RXJ5



Silver
No. 1NUP9



Oak
No. 2CY98

quartet. GA GRAINGER APPROVED

Non-Magnetic Dry-Erase Boards

Melamine surface whiteboards provide a durable platform for brainstorming, project organizing, and taking notes. Wall-mounted.

Quartet®—Durable Total Erase® surface resists ghosting and staining. Can be mounted vertically or horizontally.

GA—U-channel aluminum frame. Include dry-erase marker.

W	H	Brand	SILVER FRAME Item No.	OAK FRAME Item No.
24"	18"	Quartet	2RXJ5	—
36"	24"	Quartet	2RXJ6	2CY98
36"	24"	GA	1NUP9	—
48"	36"	Quartet	2RXJ7	2CY99
48"	36"	GA	1NUR1	—
72"	48"	Quartet	2RXJ8	2DA10
72"	48"	GA	1NUR2	—
72"	48"	GA	1NUP5	—
96"	48"	Quartet	2RXJ9	30P024
96"	48"	GA	1NUP4	—



Silver

balt

Green-Rite® Whiteboard

Environmentally friendly boards contain between 40% and 55% rapidly renewing materials. Provide excellent writability, color contrast with markers, and extreme durability. Wall-mounted.

W	H	SILVER FRAME Item No.
36"	24"	15Y257
48"	36"	15Y258
48"	48"	15Y259
72"	48"	15Y260
96"	48"	15Y261

No.
8EHU9





No. 9UD44

ghent

Magnetic Porcelain Dry-Erase Boards

Durable whiteboards resists scratching, denting, or staining. Wall-mounted.

W	H	SILVER FRAME Item No.
48½"	36½"	8EHU9
72½"	48½"	9MLX6
96½"	48½"	8RRV2
120½"	48½"	9UD44
144½"	48½"	8XCR0



balt

Magne-Rite Magnetic Dry Erase Boards

PVC-coated steel surface erases cleanly with no ghosting. Round anodized aluminum trim with injection-molded plastic curved corners. PVC-coated steel frame. Wall-mounted.

W	H	SILVER FRAME Item No.
36"	24"	15Y120
48"	36"	15Y121
48"	48"	15Y122
72"	48"	15Y123
96"	48"	15Y124



Silver

GA GRAINGER APPROVED

Contemporary Magnetic Dry-Erase Boards

Steel surface. Include dry-erase marker. Wall-mounted.

W	H	SILVER FRAME Item No.
23"	16"	1NUP1
34"	23"	1NUP2
48"	31"	1NUP3



Black

GA GRAINGER APPROVED quartet.

Magnetic Dry-Erase Boards

Include dry-erase marker. Wall-mounted.

W	H	Dry Erase Surface Type	Brand	BLACK FRAME Item No.
36"	24"	Steel	GA	492P18
48"	36"	Steel	GA	492P20
60"	36"	Steel	Quartet	48LW86
60"	36"	Porcelain	Quartet	48LW89
72"	48"	Steel	GA	492P19



Mahogany



Graphite



Silver

quartet.

Prestige® 2 Total Erase® Whiteboards

Durable stain- and ghost-resistant surface with subtle grid pattern. Include tray. Wall-mounted. Prestige® 2 Connects™ accessories sold separately, see page 1367.

W	H	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER/ALUM. FRAME Item No.
36"	24"	32GU12	32GU08	32GU04
48"	36"	32GU13	32GU09	32GU05
72"	48"	32GU14	32GU10	32GU06
96"	48"	32GU15	32GU11	32GU07



Mahogany



Silver

quartet.

Prestige® 2 Magnetic Total Erase® Whiteboards

Durable surface is stain- and ghost-resistant. Double as a bulletin board and feature subtle grid pattern. Include full-length tray. Wall-mounted. Prestige® 2 Connects™ accessories are sold separately, see page 1367.

W	H	BLACK FRAME Item No.	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER FRAME Item No.
36"	24"	32GT95	32GT99	32GT91	32GT87
48"	36"	32GT96	32GU01	32GT92	32GT88
72"	48"	32GT97	32GU02	32GT93	32GT89
96"	48"	32GT98	32GU03	32GT94	32GT90



W	H	Item No.
36"	24"	39A196
48"	36"	39A197
48"	48"	39A198
72"	48"	39A199
96"	48"	39A201
120"	48"	39A202
144"	48"	39A203
192"	48"	39A204

Porcelain Steel Magnetic Dry Erase Boards

balt

Low-gloss surface provides excellent writablilty, erasability with no ghosting, and enhanced visibility with reduced glare. Anodized aluminum trim with full-length tackable map rail and accessory tray. Wall-mounted.

quartet.

Prestige® 2 Porcelain Magnetic Whiteboards

Stain-, ghost-, and dent-resistant surface erases cleanly and doubles as a bulletin board. Full-length tray for dry-erase markers. Wall-mounted. Prestige® 2 Connects™ accessories attach to the board frame, sold separately, see page 1367.



Black



Graphite

W	H	BLACK FRAME Item No.	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER FRAME Item No.
48"	36"	32GT80	32GT84	32GT76	32GT72
72"	48"	32GT81	32GT85	32GT77	32GT73
96"	48"	32GT82	32GT86	32GT78	32GT74

Enclosed Magnetic Whiteboard

★GA GRAINGER APPROVED

No need for pins. Weather-resistant seal keeps messages protected behind swing-style door. Include showcase lock, 2 keys, and mounting hardware. Wall-mounted.


Gray Frame

W	H	GRAY FRAME Item No.
24"	36"	2RXC7
36"	48"	2RXC8

balt

Visionary® Magnetic Glass Dry-Erase Boards

Borderless and seamless design for a modern image. Gloss white surface is compatible with any dry or wet erase marker or grease pen; cleans easily without ghosting. Include tray, magnets, markers, and eraser. Wall-mounted.



W	H	Item No.
36"	24"	39A068
48"	36"	39A069
72"	48"	39A070
96"	48"	39A071

Magnetic Changeable Planner Kits

MAGNA VISUAL®

Flexible planning systems have everything your organization needs to start planning and tracking a project. Porcelain whiteboard has 1" horizontal lines for easy organization and is magnetic for displaying documents. Each kit includes: 4 dry-erase markers, ⅛" removable chart tape, magnetic felt eraser, ⅞" magnetic strips, ½" press on letters and numbers, and mounting hardware. Wall-mounted.


No. 38Y313

W	H	Item No.
36"	24"	38Y313
48"	36"	38Y314

Magnetic Planning Kits

MAGNA VISUAL®

Multipurpose kit has a 1" x 2" grid pattern on the steel surface, dry-erase whiteboard. Include magnetic strips (5 colors), magnetic round indicators (3 colors), month, day and date headings, black water-soluble marker, and hanging hardware. Wall-mounted.


No. 38Y311

W	H	Item No.
48"	36"	38Y311
72"	48"	38Y312

ghent

Cintra Magnetic Acrylic/Enamel Dry-Erase Boards

Contemporary design can be hung portrait or landscape. Include tray, dry-erase marker, and eraser. Wall-mounted.


Silver

W	H	SILVER FRAME Item No.
24"	18"	8LMF3
36"	24"	8HP41
48"	36"	9WT42

Aluminum



quartet.

Classic Porcelain Magnetic Whiteboards

Will not stain, ghost, dent, or scratch, and erases cleanly after each use. Also can be used as a bulletin board. Wall mount vertically or horizontally.

W	H	SILVER FRAME Item No.
36"	24"	2RXJ1
48"	36"	2RXJ2
72"	48"	2RXJ3
96"	48"	2RXJ4

Frosted White





Magnetic White



Magnetic Black

quartet.

Infinity™ Glass Dry-Erase Boards

Tempered glass surface erases cleanly every time and will not stain or ghost. Magnets included. Wall-mounted.

W	H	FROSTED WHITE WHITE Item No.	FROSTED WHITE Item No.	MAGNETIC WHITE Item No.	MAGNETIC BLACK Item No.
24"	18"	32GU16	—	32GU21	32GU26
36"	24"	—	32GU17	32GU22	32GU27
48"	36"	—	32GU18	32GU23	32GU28
72"	48"	—	32GU19	32GU24	32GU29
96"	48"	—	32GU20	32GU25	32GU30

ghent

Premium Magnetic Glass Markerboards

Include clear acrylic rear-mounted accessory holder, 4 magnets, dry-erase markers, and eraser. Radius corners. Wall-mounted.


Blue

W	H	BLUE Item No.	GREEN Item No.	GRAY Item No.	WHITE Item No.	YELLOW Item No.
36"	24"	38ET76	38ET91	38ET96	38EU07	38EU12
48"	36"	38ET77	38ET92	38ET97	38EU08	38EU13
48"	48"	38ET78	38ET93	38ET98	38EU09	38EU14
72"	48"	38ET79	38ET94	38ET99	38EU10	38EU15
96"	48"	38ET80	38ET95	38EU01	38EU11	38EU16

Chart Tape

MAGNA VISUAL®

Removable vinyl tape helps you create custom tables.



W	L	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
1/16"	54 ft.	31TW50	31TW53	—	31TW54	31TW51	31TW52
¼"	27 ft.	38Y329	38Y332	38Y333	38Y334	38Y330	38Y331
⅛"	27 ft.	38Y323	38Y326	38Y327	38Y328	38Y324	38Y325


No. 39A091


No. 39A089

Platinum Reversible Boards

Double-sided porcelain white gloss dry-erase board has anodized aluminum trim, rotates 360º, and locks in place with the turn of a knob. Include full-length accessory tray with perforated panel, molded bumpers, and 3" locking casters.

Board Material	W	H	ALUMINUM FRAME Item No.
Magnetic Porcelain Steel	30"	40"	39A091
	72"	48"	39A090
	96"	48"	39A089
Non-Magnetic Dura Rite HPL	30"	40"	15Y241
	72"	48"	15Y240
	96"	48"	39A088


No. 44ZC28

GA GRAINGER APPROVED

Rolling Reversible Dry-Erase Boards

2-sided steel, white gloss dry-erase boards provide portable writing surface. Include 4 casters.

W	H	ALUMINUM FRAME Item No.
47"	35 7/16"	44ZC25
74¼"	75"	44ZC28


2" x 1" Grid

quartet.

Prestige® 2 DuraMax® Magnetic Grid Planning System

Preprinted, perfectly even grid squares make schedules easy to read and organize. Porcelain, white/gray gloss whiteboard resists ghosting, staining, scratches, and dents. Include mounting hardware, 4 markers, 48 round color magnets, and vinyl peel-and-stick letters. Wall-mounted.

W	H	Columns Across	2" X 1" GRID Item No.
36"	24"	17	36XP92
48"	36"	17	36XP93
72"	48"	17	36XP94


Monthly


4-Month

quartet.

Prestige® 2 Magnetic Monthly Calendar Boards

Feature generous writing space for each day of the week. Total Erase® melamine, white/tan/red gloss will not ghost or stain. Wall-mounted. Prestige® 2 Connects™ accessories attach to the board frame, sold separately on page 1367.

W	H	MONTHLY Item No.	4-MONTH Item No.
36"	24"	32GU31	32GU33
48"	36"	32GU32	32GU34


Aluminum


Oak Frame

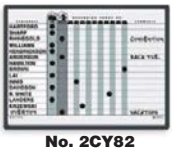
Combination Bulletin Boards

GA GRAINGER APPROVED

Saves wall space in breakrooms, offices, or warehouses. Wall-mounted.

Description	W	H	ALUMINUM FRAME Item No.	OAK FRAME Item No.
Melamine/Cork	12"	18"	1NUH1	—
	36"	24"	1NUH2	—
	48"	36"	1NUH3	1NUL8
	24"	18"	—	1NUK6
	18"	24"	—	1NUL9


No. 30P034

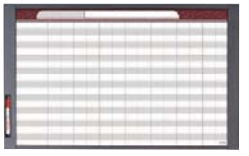

No. 2CY82

Magnetic In/ Out Boards

quartet.

Keep track of the itineraries. Porcelain, gloss dry-erase surface. Wall-mounted.

Description	W	H	Board Frame Material	Board Color	Item No.
Matrix®					
15-Person	11"	16"	Aluminum	White/Gray	30P033
15-Person	23"	16"	Aluminum	White/Gray	30P034
15-Person	23"	34"	Aluminum	White/Gray	30P035
Classic with DuraMax®					
15-Person	24"	18"	Aluminum	White/Gray	2CY82
18-Person	11"	14"	Plastic	White/Gray	2CY52
36-Person	24"	36"	Aluminum	White/Gray	2CY83


No. 6RFD9

quartet.

InView™ Magnetic Custom Boards

Use online templates and save your design as a PDF to email or take to your local printer. Slip the printed design between the board's frame and the clear, flexible lens that provides a Total Erase® writing surface.

Includes	W	H	Item No.
Built-In Marker Tray, Dry Erase Marker, Mounting System, Pre-Printed Project Planner, Monthly Calendar Template and 7-Year Warranty	47½"	35"	6RFD9
	37½"	23"	6RFE0
	23"	20"	6RFE1


2" x 1" Grid

quartet.

Prestige® 2 DuraMax® Magnetic Horizontal Line Planning System

Preprinted horizontal lines for organizing and planning. Total Erase® porcelain, white/gray whiteboard resists ghosting, staining, scratches, and dents. Include mounting hardware, 4 markers, 48 round color magnets, and vinyl peel-and-stick letters. Wall-mounted.

W	H	Columns Across	Item No.
36"	24"	1	36XP95
48"	36"	1	36XP96
72"	48"	1	36XP97


3-Month

quartet.

Prestige® 2 Sliding Monthly Calendar Board

Sliding panel keeps the current month in the primary position, with generous writing space for each day of the week. Total Erase® melamine, white/tan/red gloss surface will not ghost or stain. Wall-mounted.

W	H	Columns Across	3-MONTH Item No.
36"	24"	21	32GU36


No. 30P055


No. 2CY79


No. 30P057


No. 30P056


No. 30P059


No. 30P058

Display and Presentation Easels

quartet

Description	W	H	Adjustable Height Range	Frame Material	Frame Color	Item No.
Display Holder, 5 lb. cap.	—	63"	15" to 63"	Aluminum	Black	30P055
Display Holder	34"	63"	Not Adjustable	Aluminum	Black	2CY79
Board Holder	48"	66"	38" to 66"	Aluminum	Black	30P057
	48"	66"	38" to 66"	Aluminum	Silver	30P056
Board Holder, 45 lb. cap.	48"	66"	38" to 66"	Aluminum	Black	30P059
	48"	66"	38" to 66"	Aluminum	Silver	30P058

ghent

Magnetic Marker Easel

4-legged adjustable easel has a permanently attached aluminum-frame. Includes full-length chart bar and tray.



W	H	Height Adjustment	Frame Material	Frame Color	Item No.
27"	38"	38" to 69¾"	Aluminum	Silver	10F281


No. 15Y112


No. 15Y113

balt

The Wheasel® Easel

Versatile double-sided dry-erase easels are mobile and work well in any environment.

Description	W	H	Surface Type	BLACK STEEL FRAME Item No.
The Wheasel® Dry Erase Board with Tray	28¾"	41"	Melamine	15Y112
The Wheasel® Magnetic Dry Erase Board with Tray	28¾"	41"	Porcelain	15Y113


Cork/Porcelain, Magnetic


Porcelain, Magnetic


Dura-Rite®

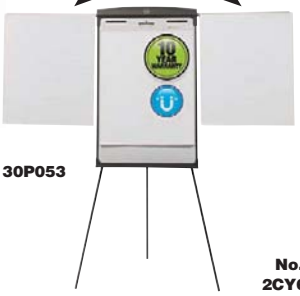
balt

Deluxe Reversible Boards

Double-sided board locks in place with the turn of a knob and easily rotates 360°. Include full-length tray and 3" locking casters. Designed with a wide base for increased stability.

W	H	CORK/ PORCELAIN SURFACE, MAGNETIC Item No.	PORCELAIN SURFACE, MAGNETIC Item No.	DURA-RITE® PLASTIC SURFACE Item No.
Aluminum Frame				
30"	40"	39A097	39A096	39A098
60"	48"	39A101	39A099	39A102
72"	48"	39A104	39A103	39A105
96"	48"	39A107	39A106	39A108


No 30P054


No. 30P053

Extension arms for hanging flipcharts


No. 1NUR4

GA GRAINGER APPROVED

quartet

Dry-Erase Board Easels

No. 30P053 includes extension arms on each side of the easel to hang flipcharts.


No. 2CY68

Board Properties	W	H	Adjustable Height Range	Frame Material	Frame Color	Surface Type	Brand	Item No.
Non-Magnetic, Reversible	27"	34"	40" to 70"	Metal	Black	Melamine	Quartet	30P054
Magnetic	27"	35"	42" to 70"	Metal	Gray	Steel	Quartet	30P053
Non-Magnetic	29¼"	37½"	40" to 70"	Aluminum	—	Melamine	GA	1NUR4
Non-Magnetic	35"	26"	40" to 67"	Aluminum	Black	Melamine	Quartet	2CY68

quartet

Magnetic Dry-Erase Cubicle Boards

Mount to fabric panels or walls. Aluminum board frame.

Description	W	H	Item No.
Magnetic Dry-Erase	24"	14"	30P041
Magnetic Dry-Erase	30"	18"	30P040
1-Month Magnetic Calendar	30"	18"	30P043


No. 30P041


No. 30P043



No. 44ZC27



No. 2RXD7

GA GRAINGER APPROVED

Sign Holders

Description	Overall Height	Display Size	Item No.
Pedestal Sign Holder	49"	14""W x 11"H	44ZC27
Enclosed Sign Holder, Wall Mount	12"	8½"W x 11"H	2RXD8
	25"	18"W x 24"H	2RXD7



No. 5YGE8



No. 5YGF0



No. 5YGE9

nudell by ARTISTIC LLC

Sign Holders

Description	Overall Height	Display Size	Item No.
Single-Sided, Wall Mount	11"	8½"W x 11"H	5YGE8
Single-Sided, Free-Standing	11"	8½"W x 11"H	5YGF0
Double-Sided, Free-Standing	11"	8½"W x 11"H	5YGE9



No. 2RXK1



No. 2RXK3



No. 30P063

quartet

Sign Holders

No. 30P063 sign stand with adjustable telescoping tube and bottom ledge creates flexible surface area, sliding up and down to hold 11" to 40" signs.

Description	Overall Height	Display Size	Item No.
A-Frame, Freestanding, Dry Erase	50"	24""W x 36"H	2RXK1
Wall Mount	12"	8½""W x 11"H	2RXK6
Wall Mount	17"	11""W x 17"H	2RXK5
Wall Mount	36"	24""W x 36"H	2RXK3
Adjustable Dual-Sided Sign Stand	44" to 73"	11" to 40"	30P063



No. 10F283

Indoor Enclosed Recycled Rubber Boards

ghent

Textured surface is made with 90% recycled materials and is self-healing. Feature lockable hinged doors with shatter-resistant acrylic panels.

W	H	Frame Color	No. of Doors	Board Color	Item No.
24"	36"	Silver	1	Confetti	10F282
48"	36"	Silver	2	Confetti	10F283



No. 29PK88

Post-it

Post-it® Wall and Easel Pads

Stick securely, remove cleanly, and resist marker bleed-through.

Description	Sheet Size	Number of Sheets	Item No.	Pkg. Qty.
Wall Pad, Plain	20 x 23"	20	2NU86	1
Tabletop Easel Pad, Plain	20 x 23"	20	29PK88	1
Easel Pad, Plain	25" x 30"	30	2NU94	4



No. 6MVG1



No. 6MVG2

United Visual Products, Inc.

A-Frame Message Board

Double-sided board has built-in handle.

Description	W	H	Includes	Item No.
Letter Board Sign	24"	36"	Double Sided, Plastic Foldable Sign	6MVG1
Letter/Number Kit	22"	28"	2 Panels and 350-Piece 3" Letter/Number Set	6MVG2



No. 6MVE4



No. 6MVF0

United Visual Products, Inc.

Poster/Sign Pedestal Holders

Poster Frame Pedestals accept 2 panels (not included), each up to ¼" thick.

Sign holders are all-steel with a 36" tall post. Slotted at top, holders accept signs up 1/16" thick.

Overall Height	Display Size	BLACK Item No.	CHROME Item No.
Poster Frame Pedestals			
58"	14"W x 22"H	6MVE2	6MVE1
58"	22"W x 28"H	6MVE4	6MVE3
58"	24"W x 36"H	6MVE6	6MVE5
Sign Holders			
47"	7"W x 11"H	6MVF5	6MVF0
47"	8½"W x 11"H	6MVF6	6MVF1
47"	14"W x 11"H	6MVF7	6MVF2
64"	22"W x 28"H	6MVF8	6MVF3
72"	24"W x 36"H	6MVF9	6MVF4



No. 15Y212

Rubber-Tak™ Board

Made with recycled rubber for superior resilience. Easy-to-clean surface resists microbes and is sound- and shock-absorbent. Aluminum frame.

W	H	Mfr. Model	TAN BOARD Item No.	BLACK BOARD Item No.	BLUE BOARD Item No.
48"	36"	321RC	15Y212	15Y213	15Y214
60"	48"	321RF	15Y218	15Y219	15Y220
72"	48"	321RG	15Y221	15Y222	15Y223
96"	48"	321RH	15Y224	15Y225	15Y226



No. 2RXC9

GA GRAINGER APPROVED

Enclosed Cork Bulletin Board

Dense, nonporous cork panels provide a resilient tacking surface; holes reseal themselves when pins are removed. Aluminum frame, lockable hinged door. For indoor use only.

W	H	Frame Color	No. of Doors	Board Color	Item No.
24"	36"	Gray	1	Gray	2RXC9
36"	48"	Gray	1	Gray	2RXD1

GA GRAINGER APPROVED

Economy Cork Bulletin Boards

Ideal for breakrooms and factory floors.

W	H	Frame Color	Item No.
36"	24"	Silver	1NUL7
48"	36"	Silver	1NUL6



No. 1NUL7

quartet.

Cork Bulletin Boards

Self-healing surface. Includes mounting system.

W	H	SILVER FRAME Item No.	NATURAL FRAME Item No.
72"	48"	2CY60	2CY45
96"	48"	2CY61	2RXL2
48"	36"	—	2CY44



No. 2CY60



No. 2CY45

quartet.

Indoor Enclosed Cork Boards

Easily post signs to board surface. Feature shatterproof locking acrylic doors.

W	H	No. of Doors	SILVER Item No.	LIGHT OAK Item No.
24"	36"	1	4W096	3W290
48"	36"	2	3W289	4W097
72"	48"	3	2CY64	—



No. 3W290



No. 4XT51

Outdoor Enclosed Cork Boards

quartet.

Protect documents from inclement weather. Feature locking, water-resistant, shatterproof acrylic doors.

W	H	Frame Color	No. of Doors	Item No.
24"	36"	Silver	1	4XT50
48"	36"	Silver	2	4XT51



No. 30P018



No. 30P016



No. 30P022

quartet.

Cork Roll, Tiles, and Display Rails

Roll is self-healing and noise-absorbent. Tiles have self-stick backing to create custom bulletin boards. Roll is 1/16" thick, Natural tile is 1/4" thick, Dark tile is 3/8" thick. Rails have aluminum frame with 5/8" cork.

Material	W	H	Item No.	Pkg. Qty.
Bulletin Board Roll				
Natural Cork	24"	48"	30P018	1
Bulletin Board Tiles				
Natural Cork	12"	12"	30P017	4
Dark Cork	12"	12"	30P016	4
Bulletin Board Display Rails				
Natural Cork	18"	1"	30P019	1
Natural Cork	24"	1"	30P020	1
Natural Cork	36"	1"	30P021	1
Natural Cork	48"	1"	30P022	1

VT Logic Tackboards with Ultra Trim

Recyclable surface is resilient and has good tack-holding ability.

W	H	Frame Color	Item No.
48"	48"	Silver	15Y274
72"	48"	Silver	15Y275
96"	48"	Silver	15Y276



No. 15Y274

ghent

Indoor Enclosed Cork Boards

Self-healing surface. Lockable hinged doors are covered with shatter-resistant acrylic.

W	H	Frame Color	No. of Doors	Item No.
30"	36"	Silver	1	8NG93
36"	36"	Silver	1	8ZGK8
48"	36"	Silver	2	8AWX0
60"	36"	Silver	2	9CW03
60"	48"	Silver	2	8DYE0
72"	36"	Silver	3	8AWX1
72"	48"	Silver	3	8EEV8
96"	48"	Silver	3	9EYV0



No. 8DYE0



No. 9GYU9

ghent

Outdoor Enclosed Vinyl Boards

Protected behind lockable hinged doors with shatter-resistant acrylic. Mount under awning or overhang.

W	H	Frame Color	No. of Doors	Item No.
30"	36"	Silver	1	8EAT9
36"	36"	Silver	1	8EPT4
48"	36"	Silver	2	9ATE1
60"	36"	Silver	2	9UF84
60"	48"	Silver	2	8ERC6
72"	36"	Silver	3	8ERC7
72"	48"	Silver	3	9GYU9
96"	48"	Silver	3	8RL54



No. 6NN64



No. 2CHZ4



No. 6NN65



No. 6NN67



No. 6NN69



No. 6H356

GA GRAINGER APPROVED

Battery-Operated Analog Quartz Wall Clocks

Arabic display clocks require manual adjustment for time changes. Operate on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	7"	6"	Plastic	Plastic	**6NN64**
Black	14"	12⅛"	Plastic	Glass	**2CHZ4**
Black	15"	13"	Plastic	Glass	**6NN65**
Black	24"	19¼"	Plastic	Glass	**6NN67**
Burgundy	14"	10"	Wood	Glass	**6NN69**
Silver	18"	15¼"	Plastic	Glass	**6H356**



GA GRAINGER APPROVED

24/12-Hr. Format Battery-Operated Analog Quartz Wall Clock

Arabic display clock requires manual adjustment for time changes. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	12"	11⅜"	Plastic	Glass	**2CHZ8**



GA GRAINGER APPROVED

Radio Controlled/Atomic Battery-Operated Analog Quartz Wall Clock

Arabic display clock automatically adjusts for accurate readings and time changes. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	12⅛"	9¾"	Plastic	Glass	**2CJA3**



Includes Remote Sensor

CONTROL COMPANY
Digital, Traceable®, and Unique Products

Digital Rectangle LCD Wall Clock

Displays giant-sized digits to view time, weather temperature, and humidity. Features alarm settings and automatically adjusts for daylight saving. Operates on (2) AA batteries, not included.

Case Color	H	W	Case Material	Lens Material	Item No.
Black	10½"	16½"	ABS Plastic	Glass	**8YPG2**



GA GRAINGER APPROVED

Round Arabic Wall Clock

Indoor or outdoor clock is engineered with highly-accurate quartz movement to ensure reliable time keeping. Designed with bold numbers to help you clearly tell time from a distance. Durable, weather-resistant clock is ideal for most job sites, factories, workshops, classroom, or offices. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
White	12½"	12½"	ABS Plastic	Polycarbonate	**3LYK5**

PYRAMID

3500 and 3700 Series Time Clocks

Track employee time, perform job costing, or date and time stamp documents. Feature 14 preprogrammed messages. No. 15F553 is heavy-duty to withstand harsh environments.



No. 15F552



No. 15F553

Description	W	H	D	Item No.
3500 Series Time Clock, Digital LCD Display	6⅜"	5¾"	7"	15F552
LCD;3700 Series Heavy-Duty Time Clock, Digital LCD Display	8¼"	8"	6⅝"	15F553
Time Clock Replacement Ribbon, Black	2⅜"	3¼"	⅜"	15F555
Time Card, Pkg. of 100	4"	9"	—	15F554

PYRAMID

7000 Series Wired Synchronized Clock System



No. 1PB82

No. 1PB92





No. 1PB84

Improve productivity and efficiency with perfectly synchronized clocks throughout your facility. Synchronizes up to 200 clocks and supports up to 35 bells, 20 horns and 4 zones. Automatically adjusts for daylight savings time.

Description	W	H	D	Item No.
Timetrax Sync™ Master Clock Terminal	7⅛"	5¼"	1¾"	1PB82
Wired Synchronized Digital Clock	11½"	6¼"	1½"	1PB92
Wired Synchronized Analog Clock	13¼"	13¼"	2¾"	1PB84
Signal Bell, 24V DC	8"	8"	3¼"	1PB86

PYRAMID

2650 Series Time Clock

6-column printing can accommodate 3 in/out punch intervals for breaks and lunches and 2-color ribbon indicates early/late punches in red ink. Compact design works well in small workplaces. Flexible unit has no employee limit and offers manual or automatic shift options to prevent overprinting on the card.



No. 52VT38

Description	W	H	D	Item No.
Time Clock, Digital LCD Display	7¼"	8½"	5"	52VT38
Time Cards (100 per Pkg.)	3⅜"	7⅜"	—	15F550
Black/Red Time Clock Replacement Ribbon	2½"	2⅝"	1 3/16"	52VT39
Black/Red Time Clock Replacement Ribbon	2¾"	4¾"	1⅜"	15F551
Expanding Time Card Rack	4⅞"	8¼" to 34½"	6¾"	25KK06
Heavy Duty Time Card Rack	4⅝"	37"	1¾"	25KK07

AMANO CINCINNATI INC.

PIX-95 Series Time Recorder

Features include an atomic clock and 60 Hz frequency. Prints regular or military time.



Description	W	H	D	Item No.
Time Clock, Digital LCD Display	6 1/16"	6 9/64"	6 29/32"	45TT90
Black Replacement Time Clock Ribbon Cartridge	—	—	—	3VH94
Double Sided Payroll Time Cards (1000 per Pkg.)	3⅜"	8¼"	—	6T198
Job Cost Time Cards (1000 per Pkg.)	3⅜"	8¼"	—	6T199

PYRAMID

TimeTrax Sync™ Synchronized Clock System

Precisely synchronizes analog or digital clocks throughout an entire facility to help promote productivity and efficiency. Wireless transmitter sends dependable radio frequency time signal to an unlimited number of clocks. Automatically adjusts for daylight saving time or power outages. No FCC license required. Nos. 15F569 and 15F570 Clock Bundles include wireless RF wall mount transmitter, TimeTrax™ Sync software, and 5 analog or digital wireless clocks.



No. 4XLA2



No. 4XLA4



No. 15F570

Description	W	H	D	Item No.	
Wireless Battery-Operated Analog Clocks					
12/24 Hour	13¼"	13¼"	2"	4XLA2	*
12 Hour	13¼"	13¼"	2½"	2LMU5	*
12 Hour	17"	17"	2"	4XKZ8	*
Clock Bundle, 12 Hour, Analog, Arabic Display	13¼"	13¼"	2"	15F569	*
Wireless Battery-Operated Digital Clocks					
6-Digit, 2.5" Black LCD Digits	11¼"	4½"	1½"	15F567	*
4-Digit, 4" Red LED Digits	11½"	6¼"	1½"	2LMU4	
4-Digit, 3" Red LED Digits	11½"	4½"		15F566	
6-Digit, 2½" Red LED Digits	11¼"	4½"	1½"	4XLA4	
6-Digit, 4" Red LED Digits	15½"	6¼"	1½"	4XLA5	
Timer Controller, 6-Digit, 2½" Red LED Digits	11⅛"	4½"	1½"	4XLA9	
Clock Bundle, 4-Digit, 4" Red LED Digits	11½"	4½"	1½"	15F570	
Accessories					
RF Wireless Ethernet Transmitter	6½"	6½"	6½"	2LMU3	
RF Wireless Add-On Transmitter	6½"	5⅜"	1¾"	2LMU8	
GPS Signal Receiver	2½"	2½"	½"	2LMU6	

** Operate on 3.6V lithium battery, included.*

PYRAMID

Standalone Digital Clocks

Feature vibrant red LED display and simple setup. 115V, 6 ft. cord.



No. 38G230

Description	W	H	D	Item No.
4-Digit	11½"	6¼"	1½"	38G229
6-Digit	15½"	6¼"	1½"	38G230

AMANO CINCINNATI INC.

TCX-11 Series Time Recorder

Automatic or manual punch with large analog dial. Prints regular or military time.



No. 4TH70

Description	W	H	D	Item No.
Time Clock	6⅞"	8¼"	6¼"	4TH70
Black Replacement Time Clock Ribbon Cartridge	—	—	—	3VH94
Double Sided Payroll Time Cards (1000 per Pkg.)	3⅜"	8¼"	—	6T198
Job Cost Time Cards (1000 per Pkg.)	3⅜"	8¼"	—	6T199

AMANO CINCINNATI INC.

Wall-Mount Racks

Hold 25 time cards or badges.



No. 6T195



No. 6NN73

Description	W	H	D	Item No.
Time Card Rack	4¼"	31"	1½"	6T195
Badge Rack	4½"	21½"	¾"	6NN73

AMANO CINCINNATI INC.

MJR-7000 Series Computerized Time Recorder

Calculates regular and and overtime and totals hours for up to 100 employees. Identifies late arrivals.



No. 6H362

Description	W	H	D	Item No.
Computerized Time Clock, Digital LCD	9½"	13½"	8"	6H362
Black Replacement Time Clock Ribbon	—	—	—	6H364
Payroll Time Cards (1000 per Pkg.)	3¼"	7⅜"	—	6H363
Bell ringer/signal kit for MJR series	—	—	—	4MC23

Shredders Cut Style and Security Level Definitions

Strip-Cut—Shreds paper into strands. This style provides the lowest level of security, and is used for nonsensitive information.

Cross-Cut—Shreds paper both lengthwise and widthwise. These shredders create small pieces rather than strips and are used to shred everyday, nonpersonal paperwork.

Micro-Cut—Cuts paper into tiny bits. These shredders are used for sensitive personal information in law firms, medical practices, and accounting firms.

High-Security—Thoroughly destroys confidential documents. These shredders are for any business that needs to securely dispose of highly sensitive documents.

Security Levels—The higher the assigned security level number, the smaller the shredded pieces will be.



Intermittent Duty
7/45 Duty
No. 54JH98



Intermittent Duty
4/15 Duty
No. 54JH97



Intermittent Duty
15/30 Duty
No. 54JJ01



Continuous Duty
No. 49GU70



Continuous Duty
No. 54JH81



Continuous Duty
No. 45NJ51



Continuous Duty
No. 5NXD9



Continuous Duty
No. 45NJ49



Continuous Duty
No. 10K102



Continuous Duty
No. 10K104

HSM®

Standard Paper Shredders

Intermittent Duty—Require brief rest periods between shredding jobs to keep motors cool and functioning properly.

Continuous Duty—Capable of running continuously, without the need to stop and cool down. These shredders are ideal for high-volume shredding jobs.

Shreds	Max. Shredding Capacity	Cut Style	Security Level	Wastebasket Capacity	Shredding Speed	D	H	W	Throat Width	Mfr. Model	Item No.
Intermittent Duty											
7/45 Duty*											
Paper, Staples, Credit Cards, CDs	6 Sheets	Micro-Cut	5	5.3 gal.	9 fpm	9 2/5"	17 1/2"	13 3/5"	8 3/4 in	shredstar X6pro	**54JH98**
	10 Sheets	Cross-Cut	3	5.3 gal.	9 fpm	9 19/32"	18 19/64"	13 19/32"	8 3/4 in	shredstar X10	**54JH99**
4/15 Duty*											
Paper, Staples, Credit Cards, CDs	5 Sheets	Cross-Cut	3	4.8 gal.	9 fpm	8-6/7"	15 15/16"	13 1/5"	8 3/4 in	shredstar X5	**54JH95**
	8 Sheets	Cross-Cut	3	4.8 gal.	9 fpm	8-6/7"	15 15/16"	13 1/5"	8 3/4 in	shredstar X8	**54JH96**
	10 Sheets	Strip-Cut	2	4.8 gal.	8 fpm	9 19/32"	17 1/2"	13 19/32"	8 3/4 in	shredstar S10	**54JH97**
15/30 Duty*											
Paper, Paper Clips, Staples, Credit Cards, CDs	12 Sheets	Cross-Cut	3	6.1 gal.	9 fpm	11"	21 45/64"	15 19/32"	9 in	shredstar X12	**54JJ01**
	14 Sheets	Cross-Cut	3	6.1 gal.	9 fpm	11"	21 45/64"	15 19/32"	9 in	shredstar X14	**54JJ02**
	17 Sheets	Cross-Cut	3	6.9 gal.	9 fpm	11"	21 7/10"	15 3/5"	9 in	shredstar X17	**54JJ03**
	20 Sheets	Cross-Cut	3	6.9 gal.	9 fpm	11-9/11"	23-3/7"	15-4/11"	9 in	shredstar X20	**54JJ04**
	25 Sheets	Strip-Cut	2	6.9 gal.	9 fpm	11"	21 45/64"	15 19/32"	9 in	shredstar S25	**54JJ05**
Continuous Duty											
HSM OF AMERICA											
Paper, Paper Clips, Staples, Credit Cards, CDs	16 Sheets	Cross-Cut	3	9.2 gal.	13 fpm	11 1/2"	24 1/2"	15 19/32"	9 1/2 in	Pure 420c	**49GU70**
	18 Sheets	Cross-Cut	3	21.0 gal.	13 fpm	14 1/4"	28"	19 1/2"	12 in	Pure 530c	**49GU80**
	19 Sheets	Cross-Cut	4	14 1/2 gal.	13 fpm	15 19/32"	26 19/32"	19 19/32"	9 1/2 in	SECURIO B26c	**54JH81**
	24 Sheets	Strip-Cut	2	9.2 gal.	13 fpm	11 1/2"	24 1/2"	15 19/32"	9 1/2 in	Pure 420	**49GU73**
	26 Sheets	Cross-Cut	4	34.3 gal.	16 fpm	20 19/32"	34 13/64"	24 19/64"	15 3/4 in	SECURIO B35c	**54JH82**
	27 Sheets	Cross-Cut	3	34.3 gal.	17 fpm	19"	35"	24 13/32"	12 in	Pure 630c	**49GU69**
	27 Sheets	Cross-Cut	3	38.3 gal.	17 fpm	19"	35"	24 13/32"	15 3/4 in	Pure 740c	**49GU67**
	30 Sheets	Strip-Cut	2	14 1/2 gal.	13 fpm	15 19/32"	26 19/32"	19 19/32"	9 1/2 in	SECURIO B26s	**54JH80**
	30 Sheets	Strip-Cut	2	21.0 gal.	13 fpm	14 1/4"	28"	19 1/2"	12 in	Pure 530	**49GU72**
	41 Sheets	Cross-Cut	3	39.6 gal.	22 fpm	21 1/2"	37 1/2"	22 45/64"	13 in	Pure 830c	**49GU66**
	42 Sheets	Strip-Cut	2	34.3 gal.	17 fpm	19"	35"	24 13/32"	12 in	Pure 630	**49GU71**
	42 Sheets	Strip-Cut	2	38.3 gal.	17 fpm	19"	35"	24 13/32"	15 3/4 in	Pure 740	**49GU68**
	49 Sheets	Strip-Cut	2	39.6 gal.	22 fpm	21 1/2"	37 1/2"	22 45/64"	13 in	Pure 830	**49GU81**
SECURIO BY HSM											
Paper, Paper Clips, Staples, Credit Cards	150 Sheets	Micro-Cut	4	9.0 gal.	13 fpm	29 3/32"	15 1/2"	15"	10 in	AF150 L4	**45NJ51**
	300 Sheets	Micro-Cut	4	9.0 gal.	13 fpm	32 29/32"	15 1/2"	17 3/32"	10 in	AF300 L4	**45NJ52**
	500 Sheets	Micro-Cut	4	21.7 gal.	13 fpm	39 1/2"	19 19/32"	19 19/64"	10 in	AF500 L4	**45NJ53**
Paper, Paper Clips, Staples, Credit Cards, CDs	19 Sheets	Cross-Cut	3	21.7 gal.	13 fpm	15 45/64"	31 13/64"	19 19/32"	12 1/4 in	SECURIO B32C	**5NXD9**
	24 Sheets	Cross-Cut	3	26.4 gal.	17 fpm	17 19/64"	33 13/64"	21 13/64"	12 1/4 in	SECURIO B34C	**5NXE1**
	30 Sheets	Strip-Cut	2	21.7 gal.	13 fpm	15 45/64"	31 13/64"	19 19/32"	12 1/4 in	SECURIO B32S	**5NXD8**
	31 Sheets	Cross-Cut	3	38.3 gal.	18 fpm	21 45/64"	36 29/32"	22 51/64"	13 in	SECURIO P36C	**5NXE3**
	37 Sheets	Strip-Cut	2	26.4 gal.	17 fpm	17 19/64"	33 13/64"	21 13/64"	12 1/4 in	SECURIO B34S	**5NXE0**
	42 Sheets	Strip-Cut	2	34.3 gal.	17 fpm	20 43/64"	34 1/4"	24 19/64"	15 3/4 in	SECURIO B35S	**36GK52**
	150 Sheets	Cross-Cut	3	9.0 gal.	13 fpm	29 3/32"	15 1/2"	15"	10 in	AF150c	**45NJ48**
	300 Sheets	Cross-Cut	3	9.0 gal.	13 fpm	32 29/32"	15 1/2"	17 3/32"	10 in	AF300c	**45NJ49**
	500 Sheets	Cross-Cut	3	21.7 gal.	13 fpm	39 1/2"	19 19/32"	19 19/64"	10 in	AF500c	**45NJ50**
Paper, Paper Clips, Staples, Credit Cards, CDs, Disks	37 Sheets	Cross-Cut	3	40.0 gal.	18 fpm	22 1/2"	36 29/32"	23 1/2"	13 in	SECURIO P40C	**10K103**
	49 Sheets	Strip-Cut	2	38.3 gal.	18 fpm	21 45/64"	36 29/32"	22 51/64"	13 in	SECURIO P36S	**5NXE2**
	60 Sheets	Strip-Cut	2	40.0 gal.	18 fpm	22 1/2"	36 29/32"	23 1/2"	13 in	SECURIO P40S	**10K102**
Paper, Paper Clips, Staples, Credit Cards, CDs, Disks, USB	46 Sheets	Cross-Cut	3	55.0 gal.	18 fpm	23 19/64"	40 13/32"	27 19/32"	16 in	SECURIO P44C	**10K105**
	78 Sheets	Strip-Cut	2	55.0 gal.	18 fpm	23 19/64"	40 13/32"	27 19/32"	16 in	SECURIO P44S	**10K104**

Minutes run time/minutes cool down time.

For Cut Style and Security Level Definitions, see page 1376.

HSM®

High-Security Paper Shredders

These continuous-duty shredders with higher security levels are capable of cutting paper into smaller pieces for additional protection against identify theft and fraud.

Paper Only—Paper-only high-security shredders cross-cut paper into small pieces to prevent exposure of sensitive or confidential data.

Paper and More—These shredders cut paper and other materials into thin, small pieces for protection against identity theft and fraud. They are capable of shredding items such as credit cards, staples, and CDs.



Paper Only
No. 10K108



Paper & More
No. 10K112

Shreds	Security Level	Cut Style	Shred Size	Max. Shredding Capacity	Wastebasket Capacity	D	H	W	Throat Width	Mfr. Model	Item No.
Paper Only											
Paper	6	Cross-Cut	1/32" x 3/16"	14 Sheets	38.3 gal.	22 1/2"	36 29/32"	23 1/2"	13 in	SECURIO P36L6	**10K111**
	6	Cross-Cut	1 x 5mm	12 Sheets	26.4 gal.	17 19/64"	33 19/64"	21 19/64"	12 1/5 in	SECURIO B34L6	**10K110**
	6	High-Security	1 x 5mm	7 Sheets	20 gal.	13 19/32"	32 19/32"	17 19/32"	10 in	125.2cL6	**1DZA9**
	6	High-Security	1 x 5mm	8 Sheets	9.0 gal.	15 1/2"	23 51/64"	12 1/2"	9 1/2 in	SECURIO B24L6	**10K108**
	6	High-Security	1 x 5mm	12 Sheets	31.7 gal.	18 1/2"	35 13/64"	19 45/64"	12 in	225.2cL6	**1DZB1**
	7	High-Security	1/32" x 3/16"	16 Sheets	38.5 gal.	18 1/2"	37 51/64"	23 13/32"	16 in	Classic 411.2L6	**54JH77**
Paper & More											
Paper, CD/DVDs	6	High-Security	1 x 5mm	14 Sheets	38.3 gal.	22 1/2"	36 29/32"	23 1/2"	13 in	SECURIO P36L6 OMDD	**10K112**
Paper, Paper Clips, Staples	6	High-Security	1/32" x 7/16"	150 Sheets	9 gal.	15"	29 3/32"	15 1/2"	9 1/2 in	SECURIO AF150L5	**54JH93**
	6	High-Security	1/32" x 7/16"	300 Sheets	9 gal.	17 3/32"	32 29/32"	15 1/2"	9 1/2 in	SECURIO AF300L5	**54JH94**
	6	High-Security	1/32" x 7/16"	500 Sheets	21 gal.	19 19/64"	39 1/2"	19 19/32"	9 1/2 in	SECURIO AF500L5	**54JH92**

HSM®

CD and Hard Drive Shredders

These continuous-duty shredders offer secure disposal of data storage media, including hard drives, credit cards, CDs, DVDs, floppy disks, USB sticks, and magnetic tapes. They reduce the digital data carriers into small particles, making data re-creation or recovery virtually impossible, and reducing the possibility of identify theft and fraud.



No. 1DZB4



No. 40N285

Shreds	Cut Style	Wastebasket Capacity	D	H	W	Mfr. Model	Item No.
Credit Cards, CDs, Floppy Discs	High-Security	38.5 gal.	18 1/2"	37 51/64"	23 13/32"	411.2OMDD	**1DZB4**
Hard Drives and Backup Media	Cross-Cut	—	120 3/8"	66 3/4"	41"	HDS230-1	**40N285**
	Cross-Cut	—	129 7/8"	66 3/4"	41"	HDS230-2	**40N286**

HSM®

Cardboard Shredders

Cut and perforate used cardboard to convert it into packing material. The resulting product is a soft, perforated layer of padding that offers an alternative to air bubble packaging. These continuous-duty shredders reduce waste by allowing users to re-use cardboard boxes that would otherwise be discarded.



No. 5NXF8



No. 1DZB7

Max. Shredding Capacity	Shredding Speed	D	H	W	Throat Width	Mfr. Model	Item No.
1 Sheet	32 fpm	14 1/2"	14 13/64"	23 7/32"	16 1/2 in	Profi Pack 400	**5NXF8**
3 Sheets	43 fpm	19"	38 13/64"	27 1/2"	16 3/4 in	Profi Pack 425	**1DZB7**

HSM®

Shredder Bags and Oils

Shredder Bags—Clear plastic HSM shredder bags fit inside compatible HSM shredders for containing and disposing of shredded particles. They help to keep work areas clean by eliminating messes caused by dumping shredder bins. Recyclable.

Shredder Oil—Petroleum-based circulating mineral oil is designed specifically for use in machines and resists rust, oxidation, and wear. It reduces friction between parts and helps reduce squeaks and other noises.



No. 1DZC4

For Use With	Size	Mfr. Model	Item No.
Shredder Bags			
Classic 108, SECURIO B24/AF150/AF300	13 gal.	1408	**1DZB8**
Classic 125, SECURIO B26/B32/ B34/AF500, Pure 530/630	34 gal.	1815	**1DZC5**
Classic 225/386/390/411/412, SECURIO B35/P36/P40, Pure 740/830	58 gal.	2117	**1DZC4**

Container Size	Base Oil	ISO Viscosity Grade	Item No.
Shredder Oil			
12 oz.	Mineral	32	**1DZC1**
16 oz.	Mineral	32	**3AED2**
1 gal.	Mineral	32	**1DZC2**



No. 420R56



No. 487F12

Desktop Label Printers

brother at your side

High speed label printers quickly create paper labels for packages, envelopes, file folders, name badges, and postage. Auto cutter allows for printing 1 or multiple labels at time, eliminating wasted label sheets. Permit users to create and print customized labels. Compatible with Windows, Linux and Mac® and integrates with Microsoft Word, Excel, and Outlook. Free download App allows you to design labels with your mobile device when connected to a wireless network. Up to 300 dpi print resolution for crisp text and graphics. Drop-in rolls require no ink or toner.

QL-800—Create easy-peel Black/Red labels with No. 420R61, sold separately on Grainger.com®. Prints up to 93 labels per minute.

QL-1110NWB and QL-1100—Use direct thermal label printing. Automatic crop function lets on-line sellers easily print barcode labels and other product labels from A4/Letter size label sheet templates (Windows only). Prints up to 69 standard labels per minute.

Description	Tape Width	Includes	Item No.
QL-800 Label Printer	2 13/32"	USB Cable, AC Adapter, (2) Starter Rolls	**420R56**
QL1110NWB P-Touch® Label Printer - Bluetooth, Ethernet, USB, WiFi Connection	4"	Software, USB Cable, AC Adapter, Quick Setup Guide, Documentation, Die Cut Large Shipping Labels (41 labels) Starter Roll, 2.4" (62mm) Continuous Length Black on White Paper Tape (8m) Starter Roll	**487F12**
QL1100 P-Touch® Label Printer - USB Connection			**487F11**



No. 13C490



No. 30RR08



No. 13C557



No. 13C529



No. 13C558

Item	W	L	Color	Labels Per Roll	Mfr. Model	Item No.	Pkg. Qty.
DK Paper Label Rolls for use with QL Series Printer							
Label	2 1/32"	2 9/64"	Black/White	400	DK1204	**13C561**	1
Label	57/64"	29/32"	Black/White	1000	DK1221	**13C567**	1
Label	2"	4"	Black/White	600	DK1240	**13C568**	1
Label Tape Cartridge	4"	100 ft.	Black/White	Continuous	DK2243	**13C576**	1
Label Tape Cartridge	7/64"	50 ft.	Black/White	Continuous	DK2211	**13C573**	1
Label Tape Cartridge	7/64"	100 ft.	Black/White	Continuous	DK2210	**13C572**	1
Label Tape Cartridge	2 13/32"	50 ft.	Black/White	Continuous	DK2212	**13C574**	1
Label Tape Cartridge	2 13/32"	100 ft.	Black/White	Continuous	DK2205	**13C571**	1
Printer Label	4"	6"	Black/White	200	DK1241	**13C569**	1
Printer Label	1 1/64"	3 1/2"	Black/White	400	DK1201	**13C558**	1
Printer Label	1 1/64"	2 13/32"	Black/White	800	DK1209	**13C564**	1

brother at your side

Labels and Label Tape

- Find more colors and sizes online, go to Grainger.com® and search "Brother Labels and Tape Labels".

Color	W	L	Mfr. Model	Item No.	Pkg. Qty.
Standard Laminated					
Black/Fluorescent Orange	3/4"	26 ft. 4"	TZeB41	**13C518**	1
	1 13/32"	26 ft. 4"	TZeB51	**13C519**	1
Black/Red	45/64"	26 ft. 4"	TZe441	**13C509**	1
Black/White	1/4"	26 ft. 4"	TZe211	**13C488**	1
	3/8"	26 ft. 4"	TZe221	**13C489**	1
	1/2"	26 ft. 4"	TZe231	**13C490**	1
	45/64"	26 ft. 4"	TZe241	**13C493**	1
	29/32"	26 ft. 4"	TZe251	**13C496**	1
	1 13/32"	26 ft. 4"	TZe261	**13C498**	1
Black/Yellow	15/32"	26 ft. 4"	TZe631	**13C513**	1
	45/64"	26 ft. 4"	TZe641	**13C514**	1
	29/32"	26 ft. 4"	TZe651	**13C515**	1
Red on White	0.47"	26 ft. 4"	TZe232	**13C492**	1
	3/4"	26 ft. 4"	TZe242	**13C494**	1
	29/32"	26 ft. 4"	TZe252	**13C497**	1
White/Black	3/4"	26 ft. 4"	TZe345	**13C505**	1
	29/32"	26 ft. 4"	TZe355	**13C507**	1
	1 13/32"	26 ft. 4"	TZe335	**13C503**	1
HSe Tapes					
White	0.23"	5 ft.	HSE211	**30RR08**	1
	0.34"	5 ft.	HSE221	**30RR09**	1
	0.45"	5 ft.	HSE231	**30RR10**	1
	0.69"	5 ft.	HSE241	**30RR11**	1
	0.93"	5 ft.	HSE251	**30RR12**	1
M-Tapes					
Black/Clear	15/32"	26 ft. 4"	M131	**13C548**	1
Black/White	15/32"	26 ft. 4"	M231	**13C549**	1
Black/Yellow	15/32"	26 ft. 4"	MK631	**13C557**	1
TZeFX Tapes					
Black/White	15/32"	26 ft.	TZEFX231	**22KD91**	1
	45/64"	26 ft.	TZEFX241	**22KD92**	1
	15/16"	26 ft.	TZEFX251	**22KD93**	1
	1 13/32"	26 ft.	TZEFX261	**22KD94**	1
Black/Yellow	15/32"	26 ft.	TZEFX631	**22KD95**	1
	15/16"	26 ft.	TZEFX651	**22KD96**	1
Extra-Strength Adhesive					
Black/White	15/32"	26 ft. 2 13/32"	HGeS2315PK	**23M319**	5
	45/64"	26 ft. 2 13/32"	HGeS2415PK	**23M320**	5
	15/16"	26 ft. 4"	HGeS2515PK	**23M321**	5
	1 13/32"	26 ft. 4"	HGeS2615PK	**23M322**	5
Black/Yellow	15/32"	26 ft. 2 13/32"	HGeS6315PK	**23M324**	5
	45/64"	26 ft. 4"	HGeS6415PK	**23M325**	5
	15/16"	26 ft. 4"	HGeS6515PK	**23M326**	5
	1 13/32"	26 ft. 4"	HGeS6615PK	**23M327**	5
Extra-Strength Adhesive Laminated					
Black/White	23/64"	26 ft. 2 13/32"	TZeS221	**13C529**	1
	15/32"	26 ft. 2 13/32"	TZeS231	**13C530**	1
	45/64"	26 ft. 2 13/32"	TZeS241	**13C532**	1
	15/16"	26 ft. 2 13/32"	TZeS251	**13C534**	1
	1 13/32"	26 ft. 2 13/32"	TZeS261	**13C535**	1
Black/Yellow	23/64"	26 ft. 2 13/32"	TZeS621	**13C536**	1
	15/32"	26 ft. 2 13/32"	TZeS631	**13C537**	1
	45/64"	26 ft. 2 13/32"	TZeS641	**13C538**	1
	15/16"	26 ft. 2 13/32"	TZeS651	**13C540**	1
	1 13/32"	26 ft. 2 13/32"	TZeS661	**13C541**	1


No. 4NHL6


No. 4NHL8


No. 4NHL7


No. 4NHL9


No. 23M340

LabelWriter® Printers

DYMO

Print mailing, filing, and media labels from a variety of software programs. Print up to 71 labels per minute. Feature DYMO Label version 8 software to create and print a variety of labels. DYMO Stamps® software (included) allows printing USPS-approved postage. All printers include power supply, USB cable, CD user's guide, quick-start guide, and address labels.

LW450 Turbo—Maximizes efficiency with high-speed label printing.

LW450 Twin Turbo—Labeler can hold 2 label rolls at once for even greater efficiency. Includes stamps.

LW450 Duo—Prints paper and plastic labels: top portion uses white paper label rolls; bottom uses permanent D1 label tape cartridges. Includes stamps and ¾" black on white D1 label cartridge.

LW450 Desktop Mailing Solution—Features a postal scale that weighs package and then prints out a USPS-approved postage label. No commitment or contract required as with traditional postage meters. Labeler comes with DYMO Stamps® software to weigh, address, and print USPS labels for first class, flat rate, Priority Mail®, Express Mail®, postcards, and international mail. Includes stamps.

LW 4XL—Prints labels up to 4.16"W, including 4.1"W x 6.275"L shipping, warehouse, barcode and identification, bulk mailing, and other large-format labels. Thermal printing technology never requires ink or toner.

Description	Mfr. Model	Item No.	
LabelWriter® Printers			
LW450 Turbo	1752265	**4NHL6**	
LW450 Twin Turbo	1752266	**4NHL7**	
LW450 Duo	1752267	**4NHL8**	
LW450 Desktop Mailing Solution	1757660	**4NHL9**	
LW 4XL	1755120	**23M340**	
Printer Labels, Black on White			
Printer Label for No. 23M340, 6"W	1744907	**23M346**	
General Purpose Labels, 500 per Roll, 3½"W	30336	**2XZN6**	
File Folder Labels, 260 per Roll, 1¼"W	30277	**2XZN5**	
Return Address Labels, 500 per Roll, 3½"W	30330	**1ZTB9**	
Address Labels, 260 per Roll, 3½"W	30320	**2XZN3**	
Address Labels, 350 per Roll, 2¾"W	30252	**1ZTB7**	
Address Labels, 260 per Roll, 3¼"W	30321	**2XZN4**	
Shipping Labels, 300 per Roll, 3½"W	30256	**1ZTB8**	
Internet Postage Labels, 150 per Roll , 3½"W	30384	**1ZTC3**	*
Adhesive Name Badge Labels, 250 per Roll, 3½"W	30857	**2XZN8**	

**** For use only with free online postage service Endicia.***


No. 23M342


No. 2RCJ1


No. 4NHN1

D1 LabelManager® Printers

DYMO

Create smearproof labels using thermal transfer technology. Use D1 label tape cartridges.

LM160 with QWERTY Keyboard—Computer-style QWERTY keyboard allows fast text entry. Choose from 6 font sizes, 8 text styles, and 4 boxes plus underline, as well as 228 symbols and clip art images. Format with 1-touch smart keys for text size, bold, italic, underline/box, and vertical text. Large LCD display allows you to preview an image of your label.

LM210D Labeler and Kit—Labeler has a large semigraphical display that displays label before printing. Prints 6 font sizes, 7 styles, 8 boxes, and underline. Includes a ½" black-on-white label cartridge. Requires 6 AA batteries or AC adapter No. 5AU10, sold separately on page 372. Kit No. 2RCJ2 comes with a labeler, two ½" black-on-white label cartridges, 6 AA batteries, AC adapter, and carrying case.

LM360D—Prints up to 4 lines of text with choice of 7 font sizes. 1½" x 2¾" display shows 2 lines of label text. Printer comes with lithium-ion battery, AC adapter, and starter label cartridge.

LM500TS with Touch Screen—Create, edit, and format customized labels directly from the full-color touch screen. Choose from 10 fonts, 25 font sizes, and 5 boxes plus underline, 32 text styles, and 325 built-in symbols and clip art images. Create and save user profiles to store settings and data for up to 5 different users. Computer-style keyboard permits fast text entry, while the automatic label cutter speeds cutting.

D1 Label Tape Cartridges—Tape cartridges are 23 ft. long. Durable, polyester-coated labels are scratch and chemical resistant. All cartridges feature easy-peel, split-back tape.

Description	Tape Width	Mfr. Model	Item No.
D1 LabelManager® Printers			
LM160 w/QWERTY Keyboard	¼, ⅜, ½"	1790415	**23M342**
LM210D	¼, ⅜, ½"	1738345	**2RCJ1**
LM210D Kit	¼, ⅜, ½"	1738976	**2RCJ2**
LM360D	¼, ⅜, ½, ¾"	1754488	**4NHN1**
LM500TS w/Touch Screen	¼, ⅜, ½, ¾, 1"	1790417	**23M341**
D1 LabelManager® Label Tape Cartridges, 23 ft. L			
Black/Clear	¼"	43610	**6JG36**
Black/White	¼"	43613	**6JG37**
Black/Clear	⅜"	40910	**6JG34**
Black/White	⅜"	41913	**6JG35**
Red on White	½"	45015	**2ZRV1**
Black/Green	½"	45019	**2ZRV3**
Black/Blue	½"	45016	**5AU29**
Black/Red	½"	45017	**5AU30**
Black/Clear	½"	45010	**6JG38**
Black/White	½"	45013	**6JG39**
White/Black	½"	45021	**6JG41**
Red on White	¾"	45805	**2ZRV4**
Black/Clear	¾"	45800	**6JG42**
Black/White	¾"	45803	**6JG43**
Black/Yellow	¾"	45808	**6JG44**
White/Black	¾"	45811	**6JG45**
Black/Clear	1"	53710	**5AU27**
Black/White	1"	53713	**5AU28**

Embossing Labels and Label Maker

DYMO

Vinyl Label Tape Rolls—Adhesive labels are designed for indoor or outdoor applications.

Office-Mate II Manual Label Maker—Produces 3/16"-high characters. Includes forward and reverse tape control, 0.200"-high horizontal character wheel, and one ⅜" x 12-ft. vinyl adhesive black tape roll. Accepts ⅜" and ½"W tape.

Color	Item No.
Vinyl Tape, ⅜" W x 12 ft. L	
Black	**2NCA4**
Red	**2NCA2**
Blue	**2NCA3**
Office-Mate II Manual Label Maker	
Black	**5AU23**


Vinyl Label Tape Roll


Office-Mate II Manual Label Maker



No. 1UEJ8

GBC

Film Laminating Machine and Film

Laminator features EZload® technology to prevent incorrect film loading, integrated trimmers, auto shutoff, and fast warm-up times.

Description	Max. Document Width	Max. Document Thickness	Speed	Item No.
Film Laminating Machine				
Ultima 35 EZload™	12"	1.7 to 5 mil	39 in./min.	**1UEJ8**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 2		
5 mil	12" x 100 ft.	**1UEK2**
3 mil	12" x 200 ft.	**1UEK1**
1.7 mil	12" x 300 ft.	**1UEJ9**



No. 24Y155



No. 24Y157



No. 24Y158

Pouch Laminating Machines and Pouches

Swingline GBC

Fusion™ 3100L and 3000L—Green light and audible beep indicate readiness and pouch jams. For medium to small offices. 60-second warm-up.

Fusion™ 1100L and 1000L—Feature ready indicator light, pouch thickness, and slider switch. Ideal for small projects or home use.

Description	Max. Document Width	Max. Document Thickness	Speed	Brand	Item No.
Pouch Laminating Machines					
Fusion™ 3100L	12"	3, 5 and 7 mil	31 in./min.	GBC	**24Y155**
Fusion™ 3000L	12"	3 and 5 mil	19 in./min.	GBC	**24Y156**
Fusion™ 1100L	9"	3 and 5 mil	13 in./min.	GBC	**24Y157**
Fusion™ 1000L	12"	3 mil	13 in./min.	GBC	**24Y158**
Fusion™ 1000L	9"	3 and 5 mil	13 in./min.	GBC	**24Y159**

Description	Thickness	W	L	Brand	Item No.	Pkg. Qty.
Laminating Pouches						
Letter, Gloss, UV Coating	3 mil	9"	11½"	GBC	**1UEK8**	100
Letter, Gloss, UV Coating	5 mil	9"	11½"	GBC	**1UEK9**	100
Menu, Gloss, UV Coating	3 mil	11½"	17½"	GBC	**1UEL5**	100
Menu, Clear	5 mil	11½"	17½"	Swingline Gbc	**24Y160**	100
Letter, Gloss	3 mil	9"	11½"	GBC	**1UEL2**	100
Legal, Gloss	3 mil	9"	14½"	GBC	**1UEL1**	100
ID Badge, Gloss	5 mil	2⁹⁄₁₆"	3¾"	GBC	**1UEL6**	25

SIRCLE CORP

Wide-Format Heat Roll Laminating Machine and Film



No. 6HJX6

Laminating machine features a sliding lower idler bar, auto shutoff, and a SmartShaft mandrel for easy film threading and loading. Includes handheld cutter.

Max. Document Width	Max. Document Thickness	Speed	Item No.
Film Laminating Machine			
27"	1.5 to 3 mil	3 ft./min.	**6HJX6**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 2		
1.5 mil	18" x 500 ft.	**6HJX7**
1.5 mil	25" x 500 ft.	**6HJX8**
1.5 mil	27" x 500 ft.	**6HJX9**
3 mil	18" x 250 ft.	**6HJY0**
3 mil	25" x 250 ft.	**6HJY1**
3 mil	27" x 250 ft.	**6HJY2**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 1		
3 mil	40" x 250 ft.	**6HJY3**
5 mil	40" x 200 ft.	**6HJY4**



No. 30D507



No. 30D504

Fellowes

Laminating Machines and Pouches

Proteus™ 125—Professional 6 roller system laminates documents up to 10 mil thick. Rapid lamination up to 41" per minute. Auto shut-off.

Voyager™ 125—High-performance laminator has an AutoSense system which detects pouch thickness up to 10 mil and self-adjusts. Advanced 4-roller system guides documents for jam-free performance. Auto shut-off.

Description	Max. Document Width	Max. Document Thickness	Speed	Item No.
Pouch Laminating Machines				
Proteus™ 125	12½"	10 mil	41 in./min.	**30D507**
Voyager™ 125	12½"	10 mil	35 in./min.	**30D504**

Description	Thickness	W	L	Item No.	Pkg. Qty.
Laminating Pouches					
Letter, Clear, UV Protection	3 mil	9"	11½"	**30D519**	25
	3 mil	9"	11½"	**30D515**	50
	3 mil	9"	11½"	**30D508**	100
	5 mil	9"	11½"	**30D509**	100
Letter, Clear	7 mil	9"	11½"	**30D510**	100
	10 mil	9"	11½"	**30D512**	50
Legal, Clear	3 mil	9"	14½"	**30D511**	50
	5 mil	9"	14½"	**30D517**	100
Menu, Clear	3 mil	12"	18"	**30D518**	25
Business Card, Clear	5 mil	3¾"	2¼"	**30D514**	100
	10 mil	3¾"	2¼"	**30D516**	100
Self-Adhesive Sheet, Clear	3 mil	9½"	12"	**30D513**	50



No. 6HJY7



Credit Card-Size Pouch
No. 6HJY9

Heavy-Duty Pouch Laminating Machines and Pouches

SIRCLE CORP

Metal-frame machines feature a solid state heating core, silicone rollers, and separate power and ready/run switches.

Max. Document Width	Max. Document Thickness	Speed	Item No.
Pouch Laminating Machines			
9¹³⁄₁₆"	3 to 10 mil	33 in./min.	**6HJY6**
12⁹⁄₁₆"	3 to 10 mil	33 in./min.	**6HJY7**

Type	Thickness	W	L	Item No.	Pkg. Qty.
Laminating Pouches, Gloss Finish					
Credit Card	5 mil	3⅜"	2⅛"	**6HJY9**	100
Credit Card	7 mil	3⅜"	2⅛"	**6HJZ0**	100
Business Card	5 mil	3¾"	2¼"	**6HJZ1**	100
Business Card	7 mil	3¾"	2¼"	**6HJZ2**	100
Luggage Tag	5 mil	4¼"	2½"	**6HJZ3**	100
Luggage Tag	7 mil	4¼"	2½"	**6HJZ4**	100
Luggage Tag	5 mil	4¼"	2½"	**6HJZ5**	100
Luggage Tag	7 mil	4¼"	2½"	**6HJZ6**	100
Military Card Size	5 mil	3⅞"	2⅝"	**6HJZ7**	100
Military Card Size	7 mil	3⅞"	2⅝"	**6HJZ8**	100
Index Card	5 mil	5½"	3½"	**6HJZ9**	100
Index Card	7 mil	5½"	3½"	**6HKA0**	100
Letter	3 mil	11½"	9"	**6HKA1**	100
Letter	5 mil	11½"	9"	**6HKA2**	100
Letter	7 mil	11½"	9"	**6HKA3**	100
Letter	10 mil	11½"	9"	**6HKA4**	50
Legal	3 mil	14½"	9"	**6HKA5**	100
Legal	5 mil	14½"	9"	**6HKA6**	100
Legal	10 mil	14½"	9"	**6HKA7**	50
Display or Chart	5 mil	15"	12"	**6HKA8**	100
Menu	5 mil	18"	12"	**6HKA9**	100
Menu	7 mil	18"	12"	**6HKC0**	100
Luggage Loop					
—	—	¼"	—	**6HKC2**	100


No. 1UDZ9


No. 24Y111


No. 1UEA3


No. 1UEA1


No. 24Y107

Swingline

Paper Cutters and Trimmers

ClassicCut®/CL800pro™—Battery-operated light illuminates cutting area. Features full-width handle for leverage and an adjustable magnetic guide.

ClassicCut® Ingento™—Feature die-cast metal cutting arm with steel spring and self-sharpening hardened steel blades. Include safety guard rail and handle lock on solid maple base. No. 24Y111 is a table unit.

ClassicCut® Pro—Feature wood cutting surface and self-sharpening metal cutting arm. Protective guard rail and blade latch hook lock blade in place.

Description	Base Material	Cutting Length	Sheet Cap.	Mfr. Model	Item No.
ClassicCut®/CL800pro	Metal	12"	150	1500	**1UDZ9**
ClassicCut® Ingento™	Wood	12"	15	1132A	**24Y109**
	Wood	15"	15	1142A	**1UEA1**
	Wood	18"	15	1152A	**1UEA2**
	Wood	24"	15	1162A	**1UEA3**
	Wood	36"	15	1184	**24Y111**
ClassicCut® Pro	Wood	12"	15	9112A	**24Y108**
	Wood	15"	15	9115A	**24Y107**
	Wood	18"	15	9118A	**24Y110**

BANKERS BOX®

Storage Boxes

BASIC-DUTY

Designed for inactive files.

Stor/File™—Lid ships attached, then tears off for storage.

MEDIUM-DUTY

Designed for occasional access to files.

Shipping and Storage—Reusable shipping and storage box in 1. Adhesive strip seals for secure transport. Shipping lid tears off, with flip-top storage lid inside.

Stor/File™—FastFold® quick, easy assembly. Nos. 2PWU6 and 2PWU7 have smooth rolled edges to deter paper cuts and add strength. Nos. 2PWU8 and 2PWU9 have reinforced plastic handle.

Stor/File™ DividerBox™—FastFold® quick, easy assembly and multilayer construction with five 5" dividers.

HEAVY-DUTY

Designed for durability and frequent use.

Presto™—Instant setup; simply push corners. Double-bottom, double-end, double-side construction with tear-resistant handholes. No. 2PWT2 has extra reinforcement and ergonomic handholes.

R-Kive®—Multilayered corrugate construction enhances stacking strength. Reinforced handholes resist tearing. FastFold® quick, easy assembly.

R-Kive® DividerBox™—Three 5" dividers keep contents upright and organized. FastFold® quick, easy assembly.

Liberty®—FastFold® quick, easy assembly. Reinforced plastic handle.

BinderBox™—Hold eight 1½" binders, or a variety of binders up to 3". FastFold® setup, tear-resistant hand holes.

Description	Color	File Size	Inside Dim. W	Inside Dim. H	Inside Dim. D	Stacking Cap.*	Closure	Item No.
Basic-Duty								
Stor/File™	White Box/Blue Trim	Letter/Legal	12"	10"	15"	450 lb.	Lift-Off Lid	**2PWX5**
Medium-Duty								
Shipping and Storage	White Box/Blue Trim	Letter/Legal	12"	10"	15"	500 lb.	Flip-Top Lid	**2PWT9**
Stor/File™	White Box/Blue Trim	Letter	12"	10"	24"	650 lb.	Lift-Off Locking Lid	**2PWU6**
Stor/File™	White Box/Blue Trim	Letter/Legal	12"	10¼"	15½"	550 lb.	String & Button	**2PWU3**
Stor/File™	White Box/Blue Trim	Letter	12"	10"	24"	500 lb.	String & Button	**2PWU8**
Stor/File™	White Box/Blue Trim	Legal	15"	10"	24"	550 lb.	String & Button	**2PWU9**
Stor/File™	White Box/Blue Trim	Letter/Legal	12"	10"	15"	550 lb.	Lift-Off Locking Lid	**2PWX4**
Stor/File™	White Box/Blue Trim	Legal	15"	10"	24"	700 lb.	Lift-Off Locking Lid	**2PWU7**
Stor/File™ DividerBox™	White Box/Blue Trim	Letter	12"	10"	24"	650 lb.	Lift-Off Locking Lid	**2PWT7**
Stor/File™ DividerBox™	White Box/Blue Trim	Legal	15"	10"	24"	700 lb.	Lift-Off Locking Lid	**2PWT6**
Heavy-Duty								
Presto™	White Box/Blue Trim	Letter	12"	10"	24"	750 lb.	Lift-Off Locking Lid	**2PWT3**
Presto™	White Box/Blue Trim	Legal	15"	10"	24"	800 lb.	Lift-Off Locking Lid	**2PWT4**
Presto™ w/Ergonomic Handles	White Box/Blue Trim	Letter/Legal	12"	10"	15"	850 lb.	Lift-Off Locking Lid	**2PWT2**
R-Kive®	White Box/Black Trim	Letter/Legal	12"	10"	15"	850 lb.	Lift-Off Locking Lid	**2PWU4**
R-Kive®	Woodgrain	Letter/Legal	12"	10"	15"	850 lb.	Lift-Off Locking Lid	**2PWU5**
R-Kive® DividerBox™	White Box/Blue Trim	Letter/Legal	12"	10"	15"	850 lb.	Lift-Off Locking Lid	**2PWT5**
Liberty®	White Box/Blue Trim	Letter	12"	10"	24"	750 lb.	String & Button	**2PWU1**
Liberty®	White Box/Blue Trim	Legal	15"	10"	24"	850 lb.	String & Button	**2PWU2**
BinderBox™	White Box/Blue Trim	Binders	12¼"	12"	18½"	850 lb.	Lift-Off Locking Lid	**2PWT8**

** Based on evenly distributed loads.*


Shipping and Storage


Presto™


R-Kive® w/Woodgrain Trim


R-Kive® DividerBox™


Liberty®


No. 2LJX5


No. 2LJX3


No. 2LJX4

Clipboards

GA GRAINGER APPROVED

File Size	Color	W	H	Clip Capacity	Item No.
Plastic Clipboards with Low Profile Clip					
Letter	Black	8⅞"	12⅜"	½ in	**2LJX7**
Letter	Dark Green	8⅞"	12⅜"	½ in	**2LJX6**
Letter	Red	8⅞"	12⅜"	½ in	**2LJX5**
Letter	Royal Blue	8⅞"	12⅜"	½ in	**2LJX8**
Metal Clipboard with Wire Clip					
Letter	Silver	9⅛"	11 13⁄16"	½ in	**2LJX3**
Metal Clipboard with Butterfly Clip					
Letter	Silver	9⅛"	12½"	1 in	**2LJX4**


No. 1GEJ7


No. 1GEJ3


No. 1DNT6


No. 1GEH5

Recycled Clipboards

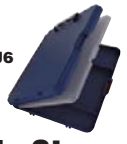
SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.	Pkg. Qty.
Hardboard Clipboard with Clamp Clip						
Letter	Light Brown	9"	12½"	1 in	**1GEJ7**	2
Legal	Light Brown	8⅞"	18"	1 in	**1GEJ8**	2
Hardboard Clipboard with High Capacity Clip						
Jumbo	Brown	26"	23"	1 in	**3XMR2**	1
Plastic Clipboard with High Capacity Clip						
Letter	Black	8⅞"	13¼"	1 in	**1GEJ4**	1
Letter	Blue	8⅞"	13¼"	1 in	**1DNT8**	1
Letter	Green	8⅞"	13¼"	1 in	**1DNT9**	1
Letter	Pink	9"	13¼"	1 in	**44R211**	1
Letter	Purple	8⅞"	13¼"	1 in	**1DNU2**	1
Letter	Red	8⅞"	13¼"	1 in	**1GEJ3**	1
Letter	Yellow	8⅞"	13¼"	1 in	**1DNU1**	1
Plastic Clipboard with Low Profile Clip						
Letter	Ice Blue	8⅞"	12½"	½ in	**1DNT6**	1
Letter	Pearl	8⅞"	12½"	½ in	**1DNT7**	1
Metal Clipboard with High Capacity Clip						
Letter	Silver	8 15⁄16"	13 13⁄16"	1 in	**1GEH5**	1


No. 1GEJ2


No. 3XJH8


No. 38UJ20


No. 1GEJ6


No. 3XFP9


No. 3ZHY8

Plastic Storage Clipboards

SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.
DeskMate II™ Storage Clipboard					
Letter	Black	10"	16"	½ in	**3XJH6**
Letter w/ Calculator	Black	10"	16"	½ in	**44R206**
Letter w/ Calculator	Orange	10"	16 1⁄16"	½ in	**1GEJ2**
SlimMate™ Clipboard					
Letter	Black	9½"	13½"	½ in	**3XJH8**
SlimMate™ Storage Clipboard					
Letter	Pink	9½"	13½"	½ in	**44R210**
Letter	Red/Green	9"	13¼"	½ in	**38UJ20**
WorkMate™ Storage Clipboard					
Letter	Blue/Maroon	10⅝"	13⅜"	½ in	**1GEJ6**
Letter	Gray	9"	12"	½ in	**3XFP9**
RingMate® Storage Clipboard, 3-Ring					
Letter	Gray/Maroon	11¼"	13½"	½ in	**3ZHY8**


No. 3XFN9

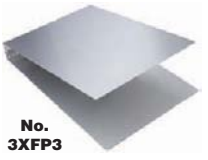

No. 3ULJ7


No. 3XJH5


No. 3XFP6


No. 3XMT1


No. 1GEH2


No. 3XFP3


No. 1GEH6


No. 1GEK2


No. 30LW85

Aluminum Storage Clipboards, Binders, and Padfolios

SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.
A-Holder® Storage Clipboards					
Memo	Silver	5½"	9½"	½ in	**3XFN9**
Letter	Silver	9⅛"	12½"	½ in	**1DNR6**
Legal	Silver	9⅛"	14½"	½ in	**1DNR9**
Legal	Silver	8½"	15"	½ in	**3XFP1**
Citation Holder II Storage Clipboard					
Form	Black	6¼"	11¾"	½ in	**3ULJ7**
CruiserMate II™ Storage Clipboard					
Letter	Silver	8½"	12"	½ in	**3XJH5**
CruiserMate™ Storage Clipboards					
Letter	Black	9¼"	13¾"	1 in	**3ZHY9**
Letter	Silver	9"	14 3⁄16"	1 in	**1GEH4**
Legal	Silver	8½"	14"	1 in	**3XFP6**
Portfolio					
Letter	Silver	9½"	13"	½ in	**3XMT1**
RediRite™ Storage Clipboards					
Memo	Silver	6"	10¼"	½ in	**3ZHY7**
Letter	Silver	9"	14 3⁄16"	1 in	**1GEH2**
Legal	Silver	9"	16 3⁄16"	1 in	**1GEH8**
Letter with Calculator	Silver	9"	14 7⁄16"	1 in	**1GEH7**
Sheet Holder					
Letter	Silver	8½"	12"	½ in	**3XFP3**
Snapak® Storage Clipboards					
Memo	Silver	6⅛"	10 3⁄16"	⅜ in	**1GEJ1**
Letter	Silver	9 1⁄16"	12⅝"	½ in	**1GEH6**
Legal	Silver	9 1⁄16"	14⅝"	½ in	**1GEH9**
TuffWriter Storage Clipboard					
Letter	Silver	9½"	13½"	½ in	**44R205**

Ring Size	Ring Type	Sheet Size	Sheet Capacity	Item No.
TuffBinder 3-Ring Binders, Recycled Aluminum				
1 in	Round	8 ½ in x 11 in	200	**1GEK2**
2 in	Round	8 ½ in x 11 in	400	**1GEK3**

Cover Color	Backing	Sheet Size	Number of Sheets	Item No.
Notepads				
Black	0.01 pt Faux Leather	3½" x 5½"	144	**30LW86**
Silver	0.04 pt Chipboard	8½" x 11¾"	50	**30LW84**
Padfolio with Writing Pad				
Silver	0.04 pt. Chipboard	5½" x 8½"	50	**30LW85**


No. 2TDC1


No. 4YNT3


No. 1PRP6


No. 4YNT4


No. 4YNR5

Shop Ticket Holders

GA GRAINGER APPROVED

Store and protect documents. Heavy-duty plastic minimizes rips and tears. Materials stay organized and can be quickly changed as necessary.

Seam Style	Opening	W	H	Color	Item No.	Pkg. Qty.
¼" Grommet						
Stitched	Top	4"	6"	Clear	**4YNT1**	25
	Top	5"	8"	Clear	**4YNT2**	25
	Top	6"	9"	Clear	**2TDC2**	25
	Top	8½"	11"	Clear Front/Black Back	**1PRN5**	25
	Top	8½"	11"	Clear	**2TDC3**	25
	Top	9"	12"	Neon Red/Clear	**4YNR6**	15
	Top	9"	12"	Neon Yellow/Clear	**4YNR7**	15
	Top	9"	12"	Clear Front/Black Back	**2TDC1**	25
	Top	9"	12"	Clear	**1PRN9**	25
	Top	9"	12"	Clear	**4YNU1**	15
	Long Side	11"	8½"	Clear	**4YNR9**	25
	Long Side	12"	9"	Clear	**4YNR8**	25
Hanging						
Stitched	Top	10½"	12"	Clear	**1DNP8**	15
	Top, 2	9"	12"	Clear	**4YNT3**	15
Magnetic						
Welded	Top	8½"	11"	Clear	**1PRP6**	15
	Top	9"	12"	Clear	**1PRP7**	15
Punched Hole						
Welded	Top	4"	6"	Clear	**4YNT4**	50
	Top	5"	8"	Clear	**4YNT5**	50
	Top	6"	9"	Clear	**4YNT6**	50
	Top	8½"	11"	Clear	**4YNT7**	50
	Top	9"	12"	Clear	**4YNT8**	50
	Long Side	12"	9"	Clear	**4YNT9**	50
Zippered	Top	9"	12"	Clear	**4YNR5**	15

C-LINE® PRODUCTS, INC.

Shop Ticket Holder, Self Adhesive

Store and protect documents. Heavy-duty plastic with welded seams keeps materials organized and all parts of a project together. Insert sizes shown.



Opening	W	H	Color	Item No.	Pkg. Qty.
Top	9"	12"	Clear	**2TDC5**	50


Document Wall Display
No. 1HEK9


Desktop Display Foldfive
No. 1HEN5


Desktop Document Display
No. 1HEN4


Individual Pocket with Magnet
No. 1TKK7


6" Catalog Rack Starter Set
No. 1HEN7

Tarifold Ideas that work !

Document Displays

Organize, protect, and display reference documents. Durable, powder-coated metal brackets encase wire-reinforced PVC pockets.

Document Wall Displays—Mount to wall, expand desktop displays, or mount to accessories. Include index tabs. No. 1HEP2 features antimicrobial display pockets, for greater workplace health and safety.

Desktop Document Displays—Viewable at a 60° angle on a desktop, or at a 30° angle when wall-mounted. Available in portrait or B-size landscape formats. Include desk base, mounting bracket, display pockets, and index tabs.

Catalog Racks—Hold 1" or 2" sections of bulky manuals at a 45° reading angle. Heavy-gauge steel construction with powder-coated finish.

Display Accessories—For mounting wall displays to other surfaces to keep documents accessible for easy viewing. No. 1HEN2 telescoping desk column mounts to assembly benches or desks. No. 1HEN3 rack/shelf bracket mounts to shelving or pallet racks.

Description	Sheet Size	Sheet Cap.	Color	Item No.	Pkg. Qty.
Document Wall Displays					
5 Pockets	8½" x 11"	10	Assorted	**1HEK8**	1
10 Pockets	8½" x 11"	20	Assorted	**1HEK9**	1
10 Pockets, Magnetic	8½" x 11"	20	Assorted	**1HEN1**	1
10 Pockets, Antimicrobial	8½" x 11"	20	Black	**1HEP2**	1
Desktop Document Displays					
10 Pockets	8½" x 11"	20	Assorted	**1HEN4**	1
10 Pockets, B Sized Drawing	11" x 17"	20	Assorted	**1HEP4**	1
50 Pockets, Foldfive	8½" x 11"	100	Assorted	**1HEN5**	1
10 Pockets, Antimicrobial	8½" x 11"	20	Black	**1HEP3**	1
Sheet Pocket w/Hangers					
Wall	8½" x 11"	1 Sheet Viewable	Blue	**1TKK6**	5
Magnetic Sheet Pockets					
Wall	8½" x 11"	1 Sheet Viewable	Blue	**1TKK7**	5

Description	Sheet Size (in.)	Sheet Cap.	Color	Item No.	Pkg. Qty.
Wall and Desktop Display Accessories					
Replacement Regular Pivoting Pockets	8½" x 11"	20	Assorted	**1HEN6**	10
Replacement Antimicrobial Pivoting Pockets	8½" x 11"	20	Black	**1HEP5**	10
Display Accessories					
PivoRack/Shelf Bracket	—	—	Gray	**1HEN3**	1
Telescoping Desk Column	—	—	Gray	**1HEN2**	1
Catalog Racks					
Catalog Rack Starter Set	8½" x 11"	6" Reference Material	Black	**1HEN7**	1
Catalog Rack Base, 45° Viewing Angle	8½" x 11"	12" Reference Material	Black	**1HEN8**	1
Catalog Rack Ring Section	8½" x 11"	1" Reference Material	Black	**1HEN9**	1
Catalog Rack Post Section	8½" x 11"	2" Reference Material	Black	**1HEP1**	1
Display Accessories					
PivoRack/Shelf Bracket	—	—	Gray	**1HEN3**	1
Telescoping Desk Column	—	—	Gray	**1HEN2**	1



No. 20PJ24



No. 41C895



No. 41C890

Painter's Masking Tape

TapeCase — a 3M Preferred Converter

GA GRAINGER APPROVED

Scotch

Selection Guide

Model No.	Tape Thickness	Max. Performance Temp.	Color	Applications
Delicate Surfaces				
Scotch-Blue™ 2080	5.40 mil	200°F	Purple	Low adhesion for freshly painted surfaces (1 day old), primed wallboard, and vinyl-coated wallpaper.
Multisurfaces				
TapeCase	5.50 mil	400°F	Blue	Fine structured crepe backed tape with rubber adhesive provides clean paint lines, removes easily from surfaces and leaves no residue.
GA	5.70 mil	200°F	Blue	Medium-adhesion for interior or exterior painted walls, trim, woodwork, glass, and metal.
Scotch-Blue™ 2090	5.40 mil	200°F	Blue	

Tape Width	Tape Adhesive Strength	Clean Removal Time	Brand	Item No.
60 yd				
⅛"	32 oz/in	Not Rated	GA	**20PJ18**
¼"	32 oz/in	Not Rated	GA	**20PJ19**
½"	32 oz/in	Not Rated	GA	**20PJ20**
¾"	32 oz/in	Not Rated	GA	**20PJ21**
¾"	35 oz/in	8 days	GA	**497C23**
1"	32 oz/in	14 days	GA	**20PJ22**
1"	34 oz/in	14 days	GA	**497C32**
1"	35 oz/in	8 days	GA	**497C24**
1½"	26 oz/in	14 days	Tapecase	**15D696**

Tape Width	Tape Adhesive Strength	Clean Removal Time	Brand	Item No.
1½"	32 oz/in	14 days	GA	**20PJ23**
1½"	34 oz/in	14 days	GA	**497C33**
1½"	35 oz/in	8 days	GA	**497C25**
2"	32 oz/in	14 days	GA	**20PJ24**
2"	34 oz/in	14 days	GA	**497C34**
2"	35 oz/in	8 days	GA	**497C26**
3"	32 oz/in	Not Rated	GA	**20PJ25**
3"	35 oz/in	8 days	GA	**497C27**
4"	32 oz/in	Not Rated	GA	**20PJ26**

Tape Width	Tape Adhesive Strength	SCOTCH-BLUE™ 2080 Clean Removal Time	SCOTCH-BLUE™ 2080 Item No.	SCOTCH-BLUE™ 2090 Clean Removal Time	SCOTCH-BLUE™ 2090 Item No.	
55m						
24mm	20 oz/in	14 days	**41C895**	14 days	**41C890**	**
24mm	30 oz/in	—	—	Not Rated	**41C898**	
36mm	20 oz/in	—	—	7 days	**45FD18**	*
36mm	20 oz/in	—	—	14 days	**41C892**	
36mm	25 oz/in	Not Rated	**41C896**	—	—	
48mm	12 oz/in	—	—	60 days	**41C893**	*
48mm	12 oz/in	—	—	60 days	**41C894**	

** 6-roll contractor pack. ** Pk. of 9 rolls.*

GA GRAINGER APPROVED

ipg intertape polymer group



No. 20PJ11

Masking Tape Rolls

- 60-yd./55m rolls
- Crepe paper structured with rough surface and rubber adhesive
- Clean removal
- Withstand specified temperatures up to 30 min.

Selection Guide

Model No.	Min. Perf. Temp.	Max. Perf. Temp.	Tape Color	Applications
High-Temperature				
GA	Not Rated	325°F	Tan	For coatings cured in hot drying ovens. Excellent adhesion and stain resistance on surfaces for functional coatings or paints, even while warm.
Medium-Temperature				
GA	Not Rated	225°F	Tan	For critical paint lines, urethane coatings, rubber molding, weatherstripping, and general-purpose applications.
IPG PG5	50°F	200°F	Tan	
IPG 534	30°F	200°F		Medium-grade flatback tape with low curl is highly conformable for carton sealing and splicing. Can be used with automatic tape heads.
Low-Temperature				
GA	60°F	150°F	Tan	For light-duty bundling, attaching, labeling, and general-purpose applications.
IPG PG500	50°F	140°F	Tan	
GA Flatback	60°F	150°F	Brown	For packaging and splicing.
IPG 539	175°F	175°F	Tan	Best for carton sealing, packaging, silk screening, beaming/leasing, splicing, tabbing, and picture framing.

Tape Width	Tape Thickness	Item No.	Pkg. Qty.
High-Temp.			
GA TC650			
1"	6.30 mil	**497C89**	1
2"	6.30 mil	**497C91**	1
Medium-Temp.			
GA CP450			
½"	6.80 mil	**20PJ01**	1
¾"	6.80 mil	**20PJ02**	1
1"	6.80 mil	**20PJ03**	1
1½"	6.80 mil	**20PJ04**	1
2"	6.80 mil	**20PJ05**	1
3"	6.80 mil	**20PJ06**	1
GA CP650			
½"	6.30 mil	**20PH94**	1
¾"	6.30 mil	**20PH95**	1
1"	6.30 mil	**20PH96**	1
1½"	6.30 mil	**20PH97**	1
2"	6.30 mil	**20PH98**	1
3"	6.30 mil	**20PH99**	1
GA TC450			
¾"	7.00 mil	**497C39**	1
1"	7.00 mil	**497C40**	1
1½"	7.00 mil	**497C41**	1
2"	7.00 mil	**497C42**	1
IPG PG5			
24mm	6.30 mil	**23M218**	36
36mm	6.30 mil	**23M219**	24
48mm	6.30 mil	**23M203**	24
IPG 534			
48mm	7.50 mil	**23M199**	24

Tape Width	Tape Thickness	Item No.	Pkg. Qty.
Low-Temp.			
GA CP106			
½"	4.80 mil	**20PJ07**	1
¾"	4.80 mil	**20PJ08**	1
1"	4.80 mil	**20PJ09**	1
1½"	4.80 mil	**20PJ10**	1
2"	4.80 mil	**20PJ11**	1
3"	4.80 mil	**20PJ12**	1
GA TC083			
½"	5.00 mil	**497C11**	1
1"	5.00 mil	**497C13**	1
2"	5.00 mil	**497C15**	1
GA TC106			
1"	4.80 mil	**497C19**	1
IPG PG500			
12mm	5.00 mil	**23M224**	72
18mm	5.00 mil	**23M205**	48
24mm	5.00 mil	**23M206**	36
48mm	5.00 mil	**23M207**	24
Low-Temp. Flatback			
GA			
1"	6.10 mil	**20PJ14**	1
1½"	6.10 mil	**20PJ15**	1
2"	6.10 mil	**20PJ16**	1
3"	6.10 mil	**20PJ17**	1
IPG 539			
18mm	7.30 mil	**23M192**	48
72mm	7.30 mil	**23M193**	16
96mm	7.30 mil	**23M194**	12



No. 29WT63

3M

Industrial Masking Tape Rolls

- 60-yd. rolls

Selection Guide

Model No.	Min. Perf. Temp.	Max. Perf. Temp.	Tape Color	Applications
High-Temperature				
3M 501+	50°F	150°F	Tan	For high temperature paint baking, fascia painting, and pipe coating. Excellent adhesion to metal, rubber, glass, and plastic.
Medium-Temperature				
3M 401+	Not Rated	250°F	Green	For high performance industrial painting, including 2-tone color application on vehicles. Excellent adhesion to metal, rubber, glass, and plastic.
3M 301+	Not Rated	250°F	Yellow	For industrial paint masking, bundling, holding, marking, color-coding, and sealing.
Low-Temperature				
3M 201+	Not Rated	200°F	Tan	For general indoor in light- to medium-duty applications. For bundling, labeling, and identifying. Not for use in paint applications.
3M 101+	Not Rated	150°F	Tan	For indoor use in light-duty applications. For marking, temporary holding, wrapping, and sealing. Not for use in paint applications.

Tape Width	Tape Thickness	BULK PACK Item No.	BULK PACK Pkg. Qty.	INDIVIDUAL ROLL Item No.	INDIVIDUAL ROLL Pkg. Qty.
High-Temp.					
3M 501+					
18mm	7.30 mil	**52ND38**	48	—	—
24mm	7.30 mil	**29WT61**	36	**35HX25**	1
36mm	6.70 mil	**29WT62**	24	—	—
48mm	5.60 mil	—	—	**35HX27**	1
48mm	5.20 mil	**29WT63**	24	—	—
72mm	9.50 mil	**52ND42**	12	—	—
Medium-Temp.					
3M 401+					
12mm	6.70 mil	**20XG29**	48	—	—
18mm	6.70 mil	**20XG30**	48	—	—
24mm	6.70 mil	**29WT58**	24	—	—
36mm	7.30 mil	**29WT59**	16	—	—
48mm	7.30 mil	**29WT60**	12	—	—
3M 301+					
36mm	6.70 mil	**29WT56**	24	—	—
36mm	6.30 mil	—	—	**52JE70**	1
48mm	6.70 mil	**29WT57**	24	—	—
Low-Temp.					
3M 201+					
24mm	4.40 mil	**29WT52**	36	**52JE62**	1
3M 64741					
36mm	6.30 mil	**29WT53**	24	—	—
3M 201+					
36mm	4.40 mil	—	—	**52JE63**	1
48mm	6.30 mil	**29WT54**	24	**35HX18**	1
3M 101+					
12mm	5.10 mil	**19YP47**	72	—	—
18mm	5.10 mil	**19YP48**	48	—	—
24mm	5.10 mil	**19YP49**	36	—	—
48mm	5.10 mil	**19YP51**	24	—	—


No. 15R434


No. 1P105


No. 499L74


No. 6JD46


No. 15R459


No. 26W990


No. 26VC84

Duct Tape

3M Nashua® TAPE PRODUCTS ★GA GRAINGER APPROVED

▪ Find more colors of Grainger Approved duct tape on Grainger.com®

For manufacturing, construction, and HVAC industries on ducts and equipment. Conforms well to irregular surfaces and is for all-purpose and general repair applications. Tested in accordance with UL 723, except Nos. 499L74, 15F769, 15R445, and 494K10.

Duct Tape Width	Duct Tape Length	Color	Item No.	Pkg. Qty.
Premium Grade				
Nashua 349				
48 mm	36m	Black	**15R434**	1
Nashua 357				
4 in	60 yd	Olive Drab	**15R451**	1
48 mm	55m	Gray	**15R449**	1
48 mm	55m	Black	**15R452**	1
48 mm	55m	White	**15R447**	1
48 mm	55m	Olive Drab	**1P105**	1
48 mm	55m	Red	**10C002**	1
48 mm	55m	Silver	**499L74**	1
72 mm	55m	Gray	**15R446**	1
72 mm	55m	Black	**15R453**	1
72 mm	55m	White	**15R448**	1
72 mm	55m	Olive Drab	**15R450**	1
Industrial Grade				
3M 6969				
2 in	60 yd	Silver	**15F769**	1
GA General Purpose				
4 in	60 yd	Gray	**26VC96**	1
48 mm	55m	Gray	**26VC89**	1
48 mm	55m	Black	**26VC87**	1
72 mm	55m	Gray	**26VC95**	1
Nashua 345				
48 mm	55m	Gray	**2W502**	1
48 mm	55m	Black	**10C003**	1
72 mm	55m	Gray	**1P116**	1
Nashua 394				
48 mm	55m	Gray	**6JD46**	1
Nashua 396				
48 mm	55m	Gray	**5AD15**	1
72 mm	55m	Gray	**15R454**	1

Duct Tape Width	Duct Tape Length	Color	Item No.	Pkg. Qty.
Nashua 398				
1 ½ in	60 yd	Gray	**15R456**	1
4 in	60 yd	Gray	**15R460**	1
48 mm	55m	Gray	**2W504**	1
48 mm	55m	Black	**15R465**	1
48 mm	55m	White	**15R455**	1
48 mm	55m	Red	**15R457**	1
48 mm	55m	Green	**15R461**	1
48 mm	55m	Blue	**15R462**	1
48 mm	55m	Brown	**15R463**	1
48 mm	55m	Olive Drab	**15R464**	1
48 mm	55m	Yellow	**15R459**	1
72 mm	55m	Gray	**15R458**	1
72 mm	55m	Black	**15R442**	1
72 mm	55m	White	**15R438**	1
72 mm	55m	Red	**15R439**	1
72 mm	55m	Green	**15R440**	1
72 mm	55m	Olive Drab	**15R441**	1
Nashua 398N				
48 mm	55m	Yellow	**15R445**	1
Nashua 2280				
1 ⅞ in	60 yd	Gray	**26W990**	1
1 ⅞ in	60 yd	White	**26W993**	1
1 ⅞ in	60 yd	Yellow	**26W994**	1
1 ⅞ in	60 yd	Black	**30F047**	1
1 ⅞ in	60 yd	Olive Drab	**30F052**	1
1 ⅞ in	60 yd	Red	**30F053**	1
Utility Grade				
GA				
48 mm	55m	Silver	**494K10**	24
Light-Duty Grade				
GA				
48 mm	55m	Gray	**26VC84**	1

Selection Guide

Model No.	Thickness	Perf. Temp.	Applications
Premium Grade			
Nashua 349	16.0 mil	40° to 200°F	Premium grade tape for heavy-duty applications. Rubber adhesives.
Nashua 357	13.0 mil	40° to 200°F	
Industrial Grade			
3M 6969	16.0 mil	40° to 200°F	Industrial grade tape has a strong film backing and is moisture and abrasion-resistant. Rubber resin adhesive provides excellent bond and conforms to irregular surfaces with-out rubbing off.
GA General Purpose	9.0 mil	40° to 200°F	Industrial grade tape covers a wide range of maintenance, manufacturing, construction, and HVAC applications. Rubber adhesive.
Nashua 345	12.0 mil	40° to 200°F	
Nashua 394	9.0 mil	40° to 200°F	
Nashua 396	10.0 mil	40° to 200°F	
Nashua 398	11.0 mil	40° to 200°F	
Nashua 398N	11.0 mil	40° to 200°F	
Nashua 2280	9.0 mil	40° to 200°F	
Utility Grade			
GA	7.0 mil	40° to 200°F	General purpose polyethylene coated cloth tape with rubber adhesive backing is easy to tear and has a high tensile strength with strong holding power and is water-resistant.
Light-Duty Grade			
GA	6.0 mil	40° to 180°F	Light-duty tape for less demanding applications. Rubber adhesive.


No. 52ND50


No. 15F807

Specialty Duct Tape

3M Nashua® TAPE PRODUCTS POLYKEN®

Selection Guide

Model No.	Tape Thickness	Perf. Temp.	Applications
All Climate Duct Tape			
Nashua	9.00 mil	40° to 200°F	Indoor/outdoor mending, repair, and securing outdoor tarps and sheeting.
Double-Faced Cloth Tape			
Polyken 105C	11 mil	40° to 200° F	Adheres on both sides for carpet hold-down, hanging polyethylene sheets, and general mounting and holding.
Polyken FastFloor	11 mil	35° to 150° F	For temporary carpet installation in convention and hospitality industries. Mounting and bonding where clean removal is required.
Flexible Duct Tape			
Nashua 557	14.00 mil	40° to 200°F	HVAC specialty tape printed with UL compliance information. Meets UL 181B-FX requirements.
Metallic Duct Tape			
Nashua 365	11.00 mil	40° to 200°F	Repairs any metallic surface or assembly.

Model No.	Tape Thickness	Perf. Temp.	Applications
Military-Grade Duct Tape			
Polyken 231	12.00 mil	40° to 200°F	Highly adhesive with durable waterproof backing. Ideal for packing, sealing, and waterproofing. ASTMD 5486 Type 4 Class 1.
Nuclear-Grade Duct Tape			
Nashua 357N	13.00 mil	40° to 200°F	For use where corrosion is a concern and containment is required. Sealing insulation, color coding, wrapping pipe ends, packaging, and more in power plants and ships. Nashua 357N and Shurtape PC 623 meet NRC and ASME standards.
3M 8979N	12.10 mil	Up to 200°F	
Polyken 226	12.00 mil	40° to 200°F	
Nashua 398N	11.00 mil	40° to 200°F	
UV-Resistant Clean Removal Duct Tape			
3M 8979	12.60 mil	40° to 200°F	Rubber-backed polyethylene film laminated to cloth. Stays on for up to 1 year without deterioration.

Tape Width	Tape Length	Tape Color	Item No.	Pkg. Qty.
All Climate Duct Tape				
Nashua				
48mm	55m	Black	**3NJZ5**	1
Double-Faced Cloth Tape				
Polyken 105C				
1 in	25 yd	Tan	**15R469**	1
48 mm	23 m	Tan	**16D173**	24
48 mm	33 m	Tan	**15R504**	1
72 mm	23 m	Tan	**16D174**	16
Polyken FastFloor				
48 mm	23 m	Blue	**35UX91**	24
Flexible Duct Tape				
Nashua 557				
48mm	55m	Black	**10A995**	1
48mm	55m	Metallic	**6JD47**	1
48mm	55m	Silver	**10A996**	1

Tape Width	Tape Length	Tape Color	Item No.	Pkg. Qty.
Metallic Duct Tape				
Nashua 365				
48mm	55m	Metallic	**6A067**	1
Military-Grade Duct Tape				
Polyken 231				
48mm	55m	Olive Drab	**15R474**	1
72mm	55m	Olive Drab	**15R475**	1
Nuclear-Grade Duct Tape				
Nashua 357N				
48mm	55m	Red	**15R437**	1
48mm	55m	Silver	**15R435**	1
72mm	55m	Silver	**15R436**	1
3M 8979N				
2 53/64"	55m	Red	**52ND50**	24

Tape Width	Tape Length	Tape Color	Item No.	Pkg. Qty.
Polyken 226				
48mm	55m	Black	**15R471**	1
48mm	55m	Red	**15R472**	1
48mm	55m	Silver	**15R470**	1
48mm	55m	White	**15R473**	1
Nashua 398N				
48mm	55m	Silver	**15R443**	1
48mm	55m	White	**15R444**	1
UV-Resistant, Clean Removal Duct Tape				
3M 8979				
2"	25 yd	Slate Blue	**15F805**	1
2"	60 yd	Black	**15F807**	1
2"	60 yd	Slate Blue	**15F803**	1
3M 8979N				
2"	60 yd	Olive	**15F806**	1



No. 16V093

Gorilla Tape

Weatherproof, airtight tape is easy to tear by hand. For indoor and outdoor use.

Duct Tape—Double-thick adhesive grips smooth, rough, and uneven surfaces. Withstands moisture, UV rays, and temperature extremes.

Double-Sided Tape—Bonds plastic, metal, wood, glass, brick, ceramic, and stone. No. 45DV48 holds up to 15 lb. on smooth and rough surfaces for easy hanging; No. 49UU23 is an industrial strength double-sided tape with a heavy duty bond. Holds up to 30 pounds. Ideal for indoor and outdoor projects and sticks to smooth and rough surfaces.

Repair Tape—Fix, patch, seal, hold, and protect almost any surface.

Description	Thickness	Color	W	L	Mfr. Model	Item No.
Duct Tape	7 mil	Clear	1½"	5 yd.	6015002	**45DV43**
	17 mil	Black	1"	30 ft.	6100101	**16V093**
	17 mil	Black	1.88"	12 yd.	60123	**1TMA5**
	17 mil	Black	1.88"	35 yd.	6035062	**1TMA6**
	17 mil	Black	2.88"	30 yd.	6003001	**5REA3**
Double-Sided Tape	17 mil	Clear	1"	5 ft.	6065001	**45DV48**
	43 mil	Black	1"	5 ft.	6055002	**49UU23**
Repair Tape	8.20 mil	Clear	2"	9 yd.	6027002	**30WM01**

Gaffer's Tape

POLYKEN

Selection Guide

Model No.	Thickness	Perf. Temp.	Applications
Polyken 510	11.50 mil	40° to 200°F	For the film, TV, and stage industries; indoor or outdoor.
Polyken 235FR	12.00 mil	40° to 200°F	For duct work, fiberglass and harness insulation and building applications where fire retardence is required.



No. 22VC17



No. 35UX90



No. 22VC23

Duct Tape Width	Duct Tape Length	Color	Item No.	Pkg. Qty.
Polyken 510				
1"	55 yd	Black	**22VC30**	1
1"	55 yd	Red	**22VC16**	1
1"	55 yd	White	**22VC18**	1
1.5"	55 yd	Black	**22VC17**	1
48-mm	45 m	Neon Green	**15R497**	1
48-mm	45 m	Neon Orange	**15R495**	1
48-mm	45 m	Neon Pink	**15R494**	1
48-mm	45 m	Neon Yellow	**15R496**	1
48-mm	50 m	Black	**22VC29**	1
48-mm	50 m	Brown	**22VC20**	1
48-mm	50 m	Gray	**22VC27**	1
48-mm	50 m	Green	**22VC24**	1
48-mm	50 m	Red	**22VC25**	1
48-mm	50 m	White	**22VC19**	1
48-mm	50 m	Yellow	**22VC21**	1
72-mm	50 m	Brown	**22VC22**	1
72-mm	50 m	Gray	**22VC28**	1
72-mm	50 m	Green	**22VC23**	1
72-mm	50 m	White	**22VC26**	1
72-mm	50 m	Black	**22VC31**	1
4"	55 yd	Black	**19YP90**	1
Polyken 235FR				
48-mm	55 m	Gray	**35UX90**	24



No. 4YME6

GA GRAINGER APPROVED

High-Temperature Cloth Tape

- Performance temp.: 0° to 1800°F

Offer maximum protection for pipes, electrical cable, hydraulic lines, gaskets, furnace curtains, and rubber hoses from fire and heat. Feature woven edge, preventing fraying and unraveling after installation.

Duct Tape Width	25 FT LENGTH Duct Tape Thickness	Item No.	50 FT LENGTH Duct Tape Thickness	Item No.
1 ½ in	125.00 mil	**4YMF5**	62.00 mil	**4YMF4**
1 in	125.00 mil	**4YME7**	62.00 mil	**4YME5**
2 in	25.00 mil	**4YMF2**	30.00 mil	**4YME9**
2 in	125.00 mil	**4YME8**	62.00 mil	**4YME6**
4 in	54.00 mil	**4YMF3**	30.00 mil	**4YMF1**

TapeCase SINCE 1972 a 3M Preferred Converter 3M

Vinyl Film Duct Tape



Selection Guide

Model No.	Duct Tape Thickness	Perf. Temp.	Applications
3M 3903	6.30 mil	Up to 250°F	For coding pipes and conduit, identifying trip hazards, fine line paint masking, and more.

Duct Tape Width	Duct Tape Length	Color	Item No.		Pkg. Qty.
3M 3903					
1 in	50 yd	Blue	**15C917**	*	1
1 in	50 yd	Gray	**15C919**	*	1
1 in	50 yd	Green	**15C918**	*	1
1 in	50 yd	Red	**15C920**	*	1
1 in	50 yd	White	**15C921**	*	1
1 in	50 yd	Yellow	**15C922**	*	1
1.5 in	50 yd	Blue	**15C929**	*	1
1.5 in	50 yd	Gray	**15C931**	*	1
1.5 in	50 yd	Green	**15C930**	*	1
1.5 in	50 yd	Red	**15C932**	*	1
1.5 in	50 yd	White	**15C933**	*	1
1.5 in	50 yd	Yellow	**15C934**	*	1
2 in	50 yd	Black	**15F770**		1

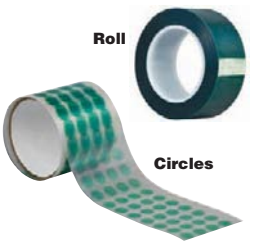
Duct Tape Width	Duct Tape Length	Color	Item No.		Pkg. Qty.
2 in	50 yd	Blue	**15F771**		1
2 in	50 yd	Gray	**15F772**		1
2 in	50 yd	Green	**15F773**		1
2 in	50 yd	Red	**15F774**		1
2 in	50 yd	White	**15F775**		1
2 in	50 yd	Yellow	**15F776**		1
4 in	50 yd	Black	**15D152**	*	1
4 in	50 yd	Blue	**15D153**	*	1
4 in	50 yd	Gray	**15D155**	*	1
4 in	50 yd	Green	**15D154**	*	1
4 in	50 yd	Red	**15D156**	*	1
4 in	50 yd	White	**15D157**	*	1
4 in	50 yd	Yellow	**15D158**	*	1

** TapeCase product manufactured from 3M material.*

Polyester 3M Masking Tape Rolls and Shapes

TapeCase SINCE 1972 a 3M Preferred Converter

Silicone adhesive is heat, shrink, and abrasion resistant for powdercoating, flashbreaker, and bag sealing applications. Leaves a sharp paint line and removes cleanly in up to 20 min.



Selection Guide

Model No.	Thickness	Perf. Temp.	Color	Adhesion	Applications
3M 8992	3.20 mil	400°F	Green	33 oz/in	Silicone adhesive is heat, shrink, and abrasion resistant for powdercoating, flashbreaker, and bag sealing applications. Leaves a sharp paint line and removes cleanly in up to 20 min.
TapeCase M Series	3.30 mil	400°F	Green	35 oz/in	

Tape Width	72 YD ROLL 3M 8992 Item No.		TapeCase M Series Item No.
Rolls			
⅜"	—		**15C567**
½"	**15C498**	*	**15C568**
¾"	—		**15C569**
1"	**15C501**	*	**15C570**
2"	**15C502**	*	**15C572**
4"	**15C505**	*	**15C573**

Tape Width	Pkg. Qty.	3M 8992 Item No.		TapeCase A Series Item No.
Circles				
⅜"	250	—		**15C636**
½"	250	—		**15C637**
⅝"	250	—		**15C638**
¾"	250	**15C495**	*	—

** TapeCase product manufactured from 3M material.*

Glass Cloth Tape

3M TapeCase SINCE 1972 a 3M Preferred Converter POLYKEN

Selection Guide

Model No.	Thickness	Perf. Temp.	Color	Applications
Glass Cloth				
3M 361	6.40 mil	-65° to 450°F	White	Silicone adhesive with abrasion-resistant backing for high-temperature ducts, thermal spray masking, and submerged arc welding.
3M 3615	7.00 mil	-65° to 450°F	White	
Fiberglass Cloth				
Polyken 296FR	7.00 mil	40° to 200°F	White	Fiberglass seam tape for sealing and seaming where flame retardancy is required, including airplane cargo pit areas.



No. 15C122

Duct Tape Width	3M 361 60 yd Item No.		3M 3615 5 yd Item No.		POLYKEN 296FR 36 yd Item No.
½ in	**15D056**	*	**15C122**	*	—
1 in	—		**15C123**	*	**15R476**
2 in	—		**15C124**	*	**15R477**
3 in	—		**15D058**	*	**15R478**

** TapeCase product manufactured from 3M material.*

Tape Roll
No. 6A064





Circles
No. 15C181

Nashua® TAPE PRODUCTS POLYKEN®

3M TapeCase since 1872 a 3M Preferred Converter GA GRAINGER APPROVED

Foil Tape Rolls and Shapes

Tape Width	Tape Length	Item No.	
Aluminum Foil Tape			
NASHUA 322			
2½"	50 yd	15R466	
48mm	46m	2W500	
72mm	46m	6A063	
POLYKEN 337			
48mm	46m	499L72	
72mm	46m	499L73	
Polyken 360-17			
48mm	31m	15R467	
72mm	31m	15R468	
Nashua 361-11			
48mm	10m	29XM19	
3M 363			
½"	5 yd	15C125	*
¾"	5 yd	15C128	*
1"	5 yd	15C126	*
2"	5 yd	15C127	*
3"	5 yd	15C129	*
½"	36 yd	15D090	*
¾"	36 yd	15D093	*
1"	36 yd	15D091	*
2"	36 yd	15D092	*
3"	36 yd	15D094	*
TapeCase			
½"	5 yd	15C649	
¾"	5 yd	15C647	
1"	5 yd	15C646	
2"	5 yd	15C648	
3"	5 yd	15C645	
½"	36 yd	15D641	
1"	36 yd	15D642	
2"	36 yd	15D643	
3"	36 yd	15D644	
Aluminum All Weather Foil Tape			
Nashua 330X			
48mm	46m	6JD44	
72mm	46m	6JD45	
Aluminum Printed Foil Tape			
Nashua 324A			
2½"	60 yd	6A068	
72mm	55m	1P118	
Aluminum Extreme Temp. Foil Tape			
3M 438			
1"	5 yd	15D126	*
2"	5 yd	15D127	*
3"	5 yd	15D128	*
4"	5 yd	15D129	*
6"	5 yd	15D130	*
3M 425			
1"	5 yd	15D114	*
2"	5 yd	15D115	*
3"	5 yd	15D116	*
4"	5 yd	15D117	*
6"	5 yd	15D118	*
3M 431			
1"	5 yd	15D119	*
2"	5 yd	15D120	*
3"	5 yd	15D121	*
4"	5 yd	15D122	*
6"	5 yd	15D123	*
3M 433			
1"	5 yd	15D124	*
2"	5 yd	15D125	*
Aluminum Extreme Temp. FSK Foil Tape			
Nashua FSK			
48mm	46m	10A994	
72mm	46m	6A064	
Aluminum Extreme Temp. ASJ Foil Tape			
Nashua 348			
72mm	46m	6A065	
Aluminum Sound Damping Foil Tape			
3M 2552			
½"	5 yd	15C973	*
¾"	5 yd	15C976	*
1"	5 yd	15C974	*
2"	5 yd	15C975	*

Tape Width	Tape Length	Item No.	
Lead Foil Tape			
3M 420			
½"	5 yd	15D104	*
¾"	5 yd	15D107	*
1"	5 yd	15D105	*
2"	5 yd	15D106	*
3M 421			
½"	5 yd	15D110	*
¾"	5 yd	15D113	*
1"	5 yd	15D111	*
2"	5 yd	15D112	*
Copper Shielding Foil Tape (Non-Conductive)			
3M 1194			
¼"	6 yd	15C828	*
½"	6 yd	15C827	*
¾"	6 yd	15C831	*
1"	6 yd	15C829	*
2"	6 yd	15C830	*
3"	6 yd	15C832	*
Copper Foil Tape (Non-Conductive)			
TapeCase			
¼"	6 yd	15D557	
½"	6 yd	15D558	
¾"	6 yd	15D559	
1"	6 yd	15D560	
2"	6 yd	15D561	
3"	6 yd	15D562	
Copper Shielding Foil Tape (Conductive)			
3M 1181			
¼"	6 yd	15C817	*
½"	6 yd	15C816	*
¾"	6 yd	15C820	*
1"	6 yd	15C818	*
2"	6 yd	15C819	*
3"	6 yd	15C821	*
Copper Foil Tape (Conductive)			
TapeCase			
¼"	6 yd	15D563	
½"	6 yd	15D564	
¾"	6 yd	15D565	
1"	6 yd	15D566	
2"	6 yd	15D567	
3"	6 yd	15D568	
Stainless Steel Foil Tape			
TapeCase			
1"	3 yd	15D569	
2"	3 yd	15D570	
3"	3 yd	15D571	
8"	3 yd	15D572	
12"	3 yd	15D573	
Metalized Polypropylene Duct Tape			
NASHUA 555			
48 mm	110m	499L71	
Polyethylene Coated Cloth Duct Tape			
NASHUA 555			
48 mm	110m	499L76	
Polypropylene Duct Tape			
GA			
48 mm	55m	494K06	

Dia.	Item No.		Pkg. Qty.
Aluminum Extreme Temp. Foil Shapes, Circles			
3M 425			
¼"	15C181	*	1000
¼"	15C183	*	100
½"	15C180	*	1000
½"	15C182	*	100
¾"	15C187	*	500
¾"	15C191	*	50
1"	15C184	*	250
1"	15C188	*	50
2"	15C185	*	250
2"	15C189	*	50
3"	15C186	*	250
3"	15C190	*	50

** TapeCase product manufactured from 3M material.*

Selection Guide

Model No.	Thickness	Perf. Temp.	Applications
Aluminum Foil Tape			
Nashua 322	5.00 mil	40° to 200°F	Tapes joints and seams, sealing out moisture, vapor, and for general repairs. UL 723 Classified.
Polyken 337	3.70 mil	200°F	Protects against moisture and vapor on foil jacket insulation. Seals, patches, and secure insulation for heating, refrigeration systems, and air conditioning. UL 723 requirements.
Polyken 360-17	17.00 mil	20° to 200°F	Seals cracks and seams in gutters and eaves, around chimneys, vent stacks, and repairs gouges in metal panels.
Nashua 361-11	11.00 mil	20° to 200°F	
3M 363	7.30 mil	-65° to 600°F	Heat reflective, high-temperature protective wrap for insulation cables, instruments, or other high temperature applications.
TapeCase	6.80 mil	-60° to 600°F	
Aluminum All Weather Foil Tape			
Nashua 330X	3.50 mil	-35° to 260°F	Tapes joints and seams while sealing out moisture and vapor. Performs well in colder temperatures. UL 723 Classified.
Aluminum Printed Foil Tape			
Nashua 324A	4.80 mil	-20° to 325°F	Sealing and seaming UL listed fiberglass duct board and flexible duct systems. UL 181A-P and UL 181B-FX listed. UL info printed on tape.
Aluminum Extreme Temp. Foil Tape			
3M 438	7.20 mil	-65° to 300°F	Barrier, protector, and thermal conductor applications. Patches tears in skins of aircraft and truck trailers. Acrylic adhesive. Meets UL 723 requirements.
3M 425	4.60 mil	-65° to 300°F	Use over refrigeration coils or to dampen door panel vibration. Repair tears on truck trailers and aircraft. Acrylic adhesive. Meets UL 723 requirements.
3M 431	3.10 mil	-65° to 300°F	General-purpose sealing, holding, splicing, or masking; indoors or out. Acrylic adhesive. Meets UL 723 requirements.
3M 433	3.60 mil	-65° to 600°F	Holding, splicing, patching, or general protection tape. Silicone adhesive. Meets FAR 25.853(a).
Aluminum Extreme Temp. FSK Foil Tape			
Nashua FSK	8.00 mil	30° to 300°F	Use as fiberglass duct wrap where strength is required. UL 723 Classified.
Aluminum Extreme Temp. ASJ Foil Tape			
Nashua 348	8.80 mil	-35° to 260°F	Provides permanent closure system and vapor barrier on ASJ-faced duct and pipe systems. UL 723 Classified.
Aluminum Sound Damping Foil Tape			
3M 2552	15.00 mil	-25° to 175°F	Apply to vibrating panels and support members and almost anywhere plastic or metal contact with materials where damaging vibration can occur.
Lead Foil Tape			
3M 420	6.80 mil	-60° to 225°F	Conformable tape for a variety of application conditions; indoors and out. 3M 420 tapes are linered.
3M 421	6.30 mil	-60° to 225°F	
Copper Shielding Foil Tape (Non-Conductive)			
3M 1194	2.60 mil	Up to 149°F	Electrical bonding, grounding, and EMI shielding. Solderable and resist oxidation and discoloration. Nonconductive acrylic adhesive.
Copper Foil Tape (Non-Conductive)			
TapeCase	3.50 mil	Up to 311°F	
Copper Shielding Foil Tape (Conductive)			
3M 1181	2.60 mil	Up to 200°F	Excellent electrical conductivity, including grounding and EMI shielding. Solderable and resist oxidation and discoloration. Conductive acrylic adhesive.
Copper Foil Tape (Conductive)			
TapeCase	3.50 mil	Up to 311°F	
Stainless Steel Foil Tape			
TapeCase	4.00 mil	-30° to 350°F	Noncorrosive, nonmagnetic tape for use in marine, food processing, and nuclear applications.
Metalized Polypropylene Duct Tape			
Nashua 555	3.10 mil	-40° to 212°F	Class 1 tape for sealing, seaming, and patching bubble reflection insulation materials.
Polyethylene Coated Cloth Duct Tape			
Nashua 555	3.10 mil	-40° to 212°F	Class 1 tape for sealing ducts, air connectors, and dryer vents.
Polypropylene Duct Tape			
GA	3.10 mil	-40° to 185°F	UV resistant polypropylene tape for sealing and securing flexible air ducts and air connectors.



3M 5490
No. 15D215



3M 5453
No. 15C453

Selection Guide

3M Model No.	Thickness	Color	Applications
PTFE Glass Cloth Tape, -100° to 500°F			
5151	4.50 mil	Light Brown	
5451	5.60 mil	Brown	
5153	6.80 mil	Light Brown	
5453	8.20 mil	Brown	Packaging and heat sealing machines, ironing and pressing equipment. Lining conveyor chutes, troughs and ducts.
PTFE Skived Film Tape, -65° to 500°F			
5480	3.70 mil	Gray	
5481	6.80 mil	Gray	Wrap rubber laminating rollers on hot polyethylene extruders. Sealing and masking.
PTFE Extruded Film Tape, -65° to 500°F			
5490	3.70 mil	Gray	
5491	6.70 mil	Gray	Wrap rubber nip roller on hot polyethylene extrusion machines. Create easy-release surface for ink and adhesive on rollers, plates, belts, etc.
PTFE Silicone-Free Film Tape, 40° to 350°F			
5498	4.00 mil	Brown	Lining of composite bonding tool frames and masking and bundling of composite parts where there is concern of silicone contamination.

3M TapeCase SINCE 1972 a 3M Preferred Converter

PTFE Cloth and Film Tape

- TapeCase product manufactured from 3M material

W	5 YD. ROLL Item No.	36 YD. ROLL Item No.
3M 5151		
½"	15C404	15C849
¾"	15C408	15D025
1"	15C406	15C894
2"	15C407	15C950
3"	15C409	15D002
6"	15C410	15D248
12"	15C405	15C850
3M 5451		
½"	15C446	15C865
¾"	15C450	15D033
1"	15C448	15C903
2"	15C449	15C958
3"	15C451	15D010
6"	15C452	15D256
12"	—	15C866
3M 5153		
½"	15C411	15C851
¾"	15C415	—
1"	15C413	15C895
2"	15C414	15C951
3"	15C416	15D003
6"	15C417	15D249
12"	—	15C852
3M 5453		
½"	15C453	15C867
¾"	15C457	15D034
1"	15C455	15C904
2"	15C456	15C959
3"	15C458	15D011
6"	—	15D257
12"	15C454	15C868

W	5 YD. ROLL Item No.	36 YD. ROLL Item No.
3M 5480		
½"	15D201	15C869
¾"	—	15D035
1"	15D203	15C905
2"	15D204	15C960
3"	15D206	15D012
6"	15D207	15D258
12"	—	15C870
3M 5481		
½"	15D208	—
¾"	15D212	—
1"	15D210	15C906
2"	15D211	15C961
3"	15D213	15D013
6"	15D214	15D259
12"	—	15C872
3M 5490		
½"	15D215	15D221
¾"	15D219	15D223
1"	15D217	1VJT6
2"	15D218	1VJT7
3"	15D220	15D224
6"	15D226	15D225
12"	15D216	15D222
3M 5491		
½"	15D227	15C873
¾"	15D231	15D037
1"	15D229	15C907
2"	15D230	15C962
3"	15D232	15D014
6"	—	15D260
12"	15D228	15C874
3M 5498		
½"	15D234	15C875
¾"	15D238	15D038
1"	15D236	15C908
2"	15D237	15C963
3"	15D239	15D015
6"	15D240	15D261
12"	15D235	15C876



Continuous Roll
No. 15D371



Circles
No. 15D598

TapeCase SINCE 1972 a 3M Preferred Converter

PTFE Cloth Tape Rolls and Shapes

Duct Tape Width	5 YD ROLL Item No.	36 YD ROLL Item No.
Continuous Rolls, 4.70 mil Thickness		
¼ in	15D599	15D370
½ in	15D601	15D332
¾ in	15D602	15D471
1 in	15D603	15D364
2 in	15D604	15D429
3 in	15D605	15D458
4 in	15D606	15D525
6 in	15D607	15D627
Continuous Rolls, 11.70 mil Thickness		
¼ in	15D608	15D371
½ in	15D609	15D333
¾ in	15D610	15D472
1 in	15D611	15D365
2 in	15D612	15D430
3 in	15D613	15D459
6 in	15D615	15D628
4 in	—	15D526

- Brown color
- Performance temp.: -100° to 500°F

Coated with pressure-sensitive silicone adhesive. Use as a release surface in the composite aircraft industry, and on heat sealers, blister formation, and form-fill-seal equipment in the packaging industries. Ideal for lining of guard rails, chutes, and slides.

Duct Tape Width	Item No.	Pkg. Qty.
Circles, 4.70 mil Thickness		
½ in	15D590	139
¾ in	15D591	139
1 in	15D592	75
1 ¾ in	15D598	17
Squares, 4.70 mil Thickness		
½ in	15D593	64
¾ in	15D594	42
2 in	15D596	15



TapeCase SINCE 1972 a 3M Preferred Converter

PTFE Abrasion-Resistant Tape

- Tan color
- Performance temp.: up to 500°F

Glass fabric coated with silicone adhesive provides strength and dimensional stability; the PTFE provides a smooth antistick surface. Use in mechanical applications such as heat sealing bars, conveyor belt coverings, and gaskets/seals.

Duct Tape Width	5 YD ROLL Item No.	36 YD ROLL Item No.
5.00 mil Thickness		
¼ in	15C707	15D368
½ in	15C711	15D315
¾ in	15C712	15D461
1 in	15C709	15D352
1 ½ in	15C715	15D385
2 in	15C714	15D417
3 in	15C716	15D450
4 in	15C708	15D520
6 in	15C713	15D617
12 in	15C710	15D316
7.00 mil Thickness		
¼ in	15C721	15D369
½ in	15C720	15D317
¾ in	15C719	15D462
1 in	15C718	15D353
1 ½ in	15C726	15D386
2 in	15C723	15D418
3 in	15C724	15D451
4 in	15C725	15D521
6 in	15C717	15D618
12 in	15C722	15D318
12.00 mil Thickness		
¼ in	15C731	15D367
½ in	15C728	15D313
¾ in	15C736	15D460
1 in	15C729	15D351
1 ½ in	15C734	15D384
2 in	15C733	15D416
3 in	15C732	15D449
4 in	15C735	15D519
6 in	15C730	15D616
12 in	15C727	15D314



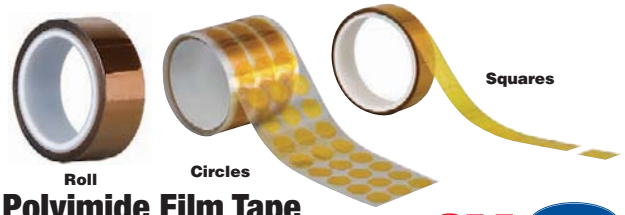
TapeCase SINCE 1972 a 3M Preferred Converter

Cotton Cloth Tape

- 60-yd. rolls
- 10.5-mil thick
- White color
- Performance temp.: up to 200°F

Protects metal and glass surfaces, pipe threads, and sharp metal edges. Use in tying, bundling, holding, and noncritical packaging applications.

Duct Tape Width	Item No.
½ in	31XL90
¾ in	15C775
1 in	15C776
2 in	15C777
3 in	31XL91
4 in	31XL92



Polyimide Film Tape Rolls and Shapes

3M TapeCase SINCE 1972 a 3M Preferred Converter

Selection Guide

Model No.	Thickness	Min. Perf. Temp.	Max. Perf. Temp.	Color	Applications
Silicone Adhesive					
TapeCase 2B	3.50 mil	-40°F	500°F	Amber	Designed for solder masking or other high-temperature applications. 2B series has 2 mil polyimide backing. B series and 7413 series have 1 mil polyimide backing.
TapeCase B	2.50 mil	-40°F	500°F	Amber	
Acrylic Adhesive					
3M 1218	3.00 mil	—	355°F	Amber	Designed for insulation of coils, capacitors, and motors. 1 mil polyimide backing.
TapeCase B-A	2.50 mil	—	400°F	Amber	

W	SILICONE TAPE ADHESIVE TAPECASE 2B Item No.	TAPECASE B Item No.	ACRYLIC TAPE ADHESIVE 3M 1218 Item No.	TAPECASE B-A Item No.
5-yd. Rolls				
¼"	15C604	15C588	15C038 *	15C620
⅜"	15C605	15C589	15C042 *	15C621
½"	15C606	15C590	15C037 *	15C622
¾"	15C607	15C591	—	15C623
1"	15C608	15C592	15C039 *	15C624
2"	15C609	15C593	—	15C625
4"	—	15C594	15C051 *	—
6"	15C611	15C595	—	15C627
36-yd. Rolls				
¼"	15C612	15C596	15C044 *	15C628
⅜"	15C613	15C545	15C048 *	15C629
½"	15C614	15C597	15C043 *	15C630
¾"	15C615	15C598	15C047 *	15C631
1"	15C616	15C599	15C045 *	15C632
2"	15C617	15C601	15C046 *	15C633
4"	15C618	15C602	—	15C634
6"	15C619	15C603	—	—

** TapeCase product manufactured from 3M material*

Tape Width	Pkg. Qty.	POLYIMIDE BACKING TAPECASE B Item No.
Circle Shape		
¼"	1000	16U711
⅜"	250	16U715
½"	100	16U717
¾"	100	16U718
1"	50	16U719
1½"	50	16U720
2"	49	16U725
3"	28	16U726
4¾"	17	16U727
Square Shape		
½"	64	16U721
¾"	42	16U722
1"	28	16U723
2"	15	16U724

3M TapeCase SINCE 1972 a 3M Preferred Converter

Low Static Polyimide Film Tape



Selection Guide

Model No.	Thickness	Min. Perf. Temp.	Max. Perf. Temp.	Color	Applications
3M 5419	2.70 mil	-100°F	500°F	Gold	Use as release surface in fabrication of parts cured at elevated temperatures or as mask for printed circuit boards during wave solder or solder dip process.
TapeCase BL	2.60 mil	-40°F	365°F	Amber	

W	SILICONE TAPE ADHESIVE 3M 5419 5-YD. ROLL Item No.	3M 5419 36-YD. ROLL Item No.	TAPECASE BL 5-YD. ROLL Item No.	TAPECASE BL 36-YD. ROLL Item No.
¼"	15C437 *	15C442 *	15C550	15C555
½"	15C436 *	15C441 *	15C551	15C556
¾"	15C440 *	15C445 *	—	15C557
1"	15C438 *	15C443 *	15C553	15C558
2"	15C439 *	15C444 *	—	15C559

** TapeCase product manufactured from 3M material*

3M

Kapton® Polyimide Film Tape



- TapeCase product manufactured from 3M material

Selection Guide

Model No.	Thickness	Min. Perf. Temp.	Max. Perf. Temp.	Color	Applications
3M 1205	3.00 mil	0°F	310°F	Amber	Thin insulating solvent-resistant tape used for high-temperature applications including wrapping coils, transformers, capacitors, and wire harness. Use as cover layer for many types of flexible printed circuits.
3M 5413	2.70 mil	-100°F	500°F	Amber	

W	ACRYLIC TAPE ADHESIVE 3M 1205 5-YD. ROLL Item No.	3M 1205 36-YD. ROLL Item No.	SILICONE ADHESIVE 3M 5413 5-YD. ROLL Item No.	3M 5413 36-YD. ROLL Item No.
¼"	15C022	15C028	15C421	15C427
⅜"	15C026	15C032	15C425	15C431
½"	15C021	15C027	15C420	15C426
¾"	15C025	15C031	15C424	15C430
1"	15C023	15C029	15C422	15C428
2"	15C024	15C030	15C423	15C429
4"	15C035	15C033	15C434	—
6"	15C036	15C034	15C435	15C433

DuPont™ Kapton®

Kapton® Nonadhesive Film Wrap



- Performance temp.: -452° to 752°F
- Rolls with no adhesive
- Amber color

Designed for applications that require an all-polyimide film. Use for mechanical parts, electronic parts, electrical insulation, fiber optics cable, insulation blankets and tubing, automotive diaphragms, sensors, and manifolds, etchings, and shims.

W	1.00 MIL THICKNESS 50 ft. Item No.	1.00 MIL THICKNESS 100 ft. Item No.	5.00 MIL THICKNESS 50 ft. Item No.	5.00 MIL THICKNESS 100 ft. Item No.
½"	15C514	15C512	15C515	15C513
1"	15C516	15C510	15C517	15C511
2"	15C520	15C518	15C521	15C519
3"	15C525	15C522	15C526	15C524
4"	15C529	15C527	15C530	15C528
5"	15C533	15C531	15C534	15C532
6"	15C537	15C535	15C538	15C536

UHMW Tape

3M TapeCase SINCE 1972 a 3M Preferred Converter



- Performance temp.: -30° to 225°F

Selection Guide

Model No.	Thickness	Color	Applications
Rubber Adhesive			
3M 5421	6.70 mil	Clear	Thick caliper for extended service life, providing a protective surface against extreme wear. Self-lubricating tape can be used where lubrication is not possible because of contamination.
3M 5423	11.70 mil	Clear	
Acrylic Adhesive			
3M 5425	5.00 mil	Clear	Protection for surfaces or bearings that experience heavy usage. Use on guide rails and chutes that require a more durable and solvent-resistant sliding surface.
TapeCase 2302-10	11.50 mil	Clear	
ZZTapeCase 2302-20	21.50 mil	Clear	

W	5-YD. ROLL Item No.	36-YD. ROLL Item No.
Rubber Adhesive		
3M 5421		
½"	15D172 *	15C857 *
¾"	15D176 *	15D029 *
1"	15D174 *	15C898 *
2"	15D175 *	15C954 *
6"	15D178 *	15D252 *
3M 5423		
½"	15D179 *	15C859 *
¾"	15D183 *	15D030 *
1"	15D181 *	15C899 *
2"	15D182 *	15C955 *
6"	15D185 *	15D253 *

W	5-YD. ROLL Item No.	36-YD. ROLL Item No.
Acrylic Adhesive		
3M 5425		
1"	15D188 *	15C901 *
2"	15D189 *	15C956 *
3"	15D191 *	15D008 *
TapeCase 2302-10		
1"	15D580	15D357
2"	15D581	15D422
3"	15D488	15D452
TapeCase 2302-20		
1"	15D583	15D358
2"	15D584	15D423
3"	15D489	15D453

** TapeCase product manufactured from 3M material*



No. 15C890



No. 15C397



No. 15C391



No. 15C343

3M TapeCase SINCE 1972 a 3M Preferred Converter

VHB™ Double-Sided Foam Tape Rolls and Shapes

VHB™ (Very High Bond) 100% closed-cell tapes form a tight, high-performance seal. Strong enough to replace spot welds, screws, rivets, and liquid adhesives with long-term durability, indoors and out.

Selection Guide

Model No.	Thickness	Tape Color	Tape Tensile Strength	Tape Adhesive Strength†	Applications
Acrylic Foam, Multipurpose Acrylic Adhesive					
RP62	62 mil	Gray	80 lb-in	Not Rated	Bonds to a variety of materials, including metal, plastic, and painted surfaces.
RP45	45 mil	Gray	85 lb-in	Not Rated	
RP32	32 mil	Gray	85 lb-in	288 oz/in	
RP25	25 mil	Gray	90 lb-in	256 oz/in	
RP16	16 mil	Gray	95 lb-in	192 oz/in	
Conformable Foam, Low Temperature Acrylic Adhesive					
4957F	62 mil	Gray	85 lb-in	Not Rated	Bonds cellular phone antennas and toll tags to vehicles. Bonds to metal, glass, and plastics.
4943F	45 mil	Gray	85 lb-in	Not Rated	
Conformable Foam, Modified Acrylic Adhesive					
5952	45 mil	Black	90 lb-in	—	Bonds to many powder-coated paint and medium-to-low energy paints and plastics, as well as metals and glass.
Conformable Foam, Multipurpose Acrylic Adhesive					
4991	90 mil	Gray	70 lb-in	Not Rated	Bonds muntin bars to windows; bonds and seals polycarbonate lenses over LCDs; bonds prepainted metals in truck assembly; mounts vinyl wiring ducts and conduit channels.
4941	45 mil	Gray	85 lb-in	Not Rated	
4936	25 mil	Gray	90 lb-in	272 oz/in	
4926	15 mil	Gray	95 lb-in	224 oz/in	
Firm Foam, General Purpose Acrylic Adhesive					
4959	120 mil	White	75 lb-in	Not Rated	Attach stiffeners in air conditioners, office furniture, and telecommunications equipment. Bonds aluminum skin to steel of vehicles and bonds architectural signs to frames.
4950	45 mil	White	140 lb-in	400 oz/in	
4949	45 mil	Black	140 lb-in	400 oz/in	
4930	25 mil	White	160 lb-in	Not Rated	
4929	25 mil	Black	160 lb-in	Not Rated	
Firm Foam, High Temp. General Purpose Acrylic Adhesive					
4646	25 mil	Gray	85 lb-in	240 oz/in	Use for prepowder-coat paint applications and attaching vinyl trim, bonding vinyl extrusions and prepainted truck and trailer skins. Bonds well to metal substrates.
4611	45 mil	Gray	85 lb-in	288 oz/in	
Firm Foam, Low Surface Energy Acrylic Adhesive					
4952	45 mil	White	80 lb-in	400 oz/in	Bonds powder-painted metal stiffeners to office desks and file cabinets. High-performance synthetic adhesive also bonds to smooth, general-purpose substrates.
Firm Foam, Low Temperature Acrylic Adhesive					
4951	45 mil	White	110 lb-in	288 oz/in	Bonds cellular phone antennas and toll tags to vehicles. Bonds to metal, glass, and plastics.
Solid Foam, General-Purpose Acrylic Adhesive					
4910	40 mil	Clear	100 lb-in	240 oz/in	Seal skylight inner/outer dome, mount backlit translucent signs and edge bond resin-filled glass. Suitable for high-energy substrates.
4905	20 mil	Clear	100 lb-in	192 oz/in	

† Adhesion varies by substrate, time and temperature.

W	L	Item No.	
Acrylic Foam, Multipurpose Acrylic Adhesive			
RP62, 50°F to 200°F			
½"	5 yd.	15C890	*
½"	18 yd.	15C843	*
¾"	5 yd.	15D048	*
¾"	18 yd.	15D022	*
1"	5 yd.	15C940	*
1"	18 yd.	15C826	*
2"	5 yd.	15C981	*
2"	18 yd.	15C947	*
6"	5 yd.	15D274	*
6"	18 yd.	15D245	*
12"	5 yd.	15C891	*
12"	18 yd.	15C844	*
RP45, 50°F to 200°F			
½"	5 yd.	15C888	*
½"	18 yd.	15C841	*
¾"	5 yd.	15D047	*
¾"	18 yd.	15D021	*
1"	5 yd.	15C939	*
1"	18 yd.	15C825	*
2"	5 yd.	15C980	*
2"	18 yd.	15C946	*
6"	5 yd.	15D273	*
6"	18 yd.	15D244	*
12"	5 yd.	15C889	*
12"	18 yd.	15C842	*
RP32, 50°F to 200°F			
½"	5 yd.	15C886	*
½"	18 yd.	15C839	*
¾"	5 yd.	15D046	*
¾"	18 yd.	15D020	*
1"	5 yd.	15C938	*
1"	18 yd.	15C824	*
2"	5 yd.	15C979	*
2"	18 yd.	15C945	*
6"	5 yd.	15D272	*
6"	18 yd.	15D243	*
12"	18 yd.	15C840	*
RP25, 50°F to 200°F			
½"	5 yd.	15C884	*
½"	18 yd.	15C837	*
¾"	5 yd.	15D045	*
¾"	18 yd.	15D019	*
1"	5 yd.	15C937	*
1"	18 yd.	15C823	*
2"	5 yd.	15C978	*
2"	18 yd.	15C944	*
6"	5 yd.	15D271	*
6"	18 yd.	15D242	*
12"	18 yd.	15C838	*
RP16, 50°F to 200°F			
½"	5 yd.	15C882	*
½"	18 yd.	15C835	*
¾"	5 yd.	15D044	*
¾"	18 yd.	15D018	*
1"	5 yd.	15C936	*
1"	18 yd.	15C822	*
2"	5 yd.	15C977	*
2"	18 yd.	15C943	*
6"	5 yd.	15D270	*
6"	18 yd.	15D241	*
12"	5 yd.	15C883	*
12"	18 yd.	15C836	*
Conformable Foam, Low Temperature Acrylic Adhesive			
4957F, 30°F to 200°F			
½"	5 yd.	15C387	*
¾"	5 yd.	15C390	*
1"	5 yd.	15C388	*
2"	5 yd.	15C389	*
4943F, 30°F to 200°F			
½"	5 yd.	15C358	*
¾"	5 yd.	15C362	*
1"	5 yd.	15C360	*
2"	5 yd.	15C361	*
6"	5 yd.	15C363	*
12"	5 yd.	15C359	*
Conformable Foam, Modified Acrylic Adhesive			
5952, -40°F to 250°F			
¾"	15 yd.	1YBZ5	
25mm	33m	54EN23	
Conformable Foam, Multipurpose Acrylic Adhesive			
4991, 60°F to 200°F			
½"	5 yd.	15C397	*
¾"	5 yd.	15C402	*
1"	5 yd.	15C399	*
2"	5 yd.	15C401	*
6"	5 yd.	15C403	*
12"	5 yd.	15C398	*
4941, 60°F to 200°F			
½"	5 yd.	15C332	*
¾"	5 yd.	15C336	*
1"	5 yd.	15C334	*
2"	5 yd.	15C335	*
6"	1 yd.	15C356	*
6"	5 yd.	15C357	*
12"	1 yd.	15C331	*
12"	5 yd.	15C333	*
4941, -40°F to 200°F			
½"	36 yd.	24A690	
19mm	33m	54EN59	
4936, 60°F to 200°F			
½"	5 yd.	15C325	*
¾"	5 yd.	15C329	*
1"	5 yd.	15C327	*
2"	5 yd.	15C328	*
6"	5 yd.	15C330	*
12"	5 yd.	15C326	*
4926, 60°F to 200°F			
½"	5 yd.	15C310	*
¾"	5 yd.	15C314	*
1"	5 yd.	15C312	*
2"	5 yd.	15C313	*
6"	5 yd.	15C315	*
12"	5 yd.	15C311	*
Firm Foam, General Purpose Acrylic Adhesive			
4959, 50°F to 300°F			
½"	5 yd.	15C391	*
¾"	5 yd.	15C395	*
1"	5 yd.	15C393	*
2"	5 yd.	15C394	*
6"	5 yd.	15C396	*
12"	5 yd.	15C392	*
4950, 50°F to 200°F			
½"	5 yd.	15C368	*
¾"	5 yd.	15C372	*
2"	5 yd.	15C371	*
6"	1 yd.	15C373	*
6"	5 yd.	15C374	*
12"	1 yd.	15C367	*
12"	5 yd.	15C369	*
4950, -31°F to 230°F			
1"	5 yd.	15C370	*
4949, 50°F to 200°F			
½"	5 yd.	15C364	*
¾"	5 yd.	15C366	*
1"	5 yd.	15C365	*
4930, 50°F to 200°F			
½"	5 yd.	15C319	*
¾"	5 yd.	15C323	*
1"	5 yd.	15C321	*
2"	5 yd.	15C322	*
6"	5 yd.	15C324	*
12"	5 yd.	15C320	*
4929, 50°F to 200°F			
½"	5 yd.	15C316	*
¾"	5 yd.	15C318	*
1"	5 yd.	15C317	*
Firm Foam, High Temp. General Purpose Acrylic Adhesive			
4646, 50°F to 300°F			
½"	5 yd.	15C281	*
¾"	5 yd.	15C285	*
1"	5 yd.	15C283	*
2"	5 yd.	15C284	*
6"	5 yd.	15C286	*
12"	5 yd.	15C282	*
4611, 50°F to 300°F			
½"	5 yd.	15C278	*
¾"	5 yd.	15C280	*
1"	5 yd.	15C279	*
Firm Foam, Low Surface Energy Acrylic Adhesive			
4952, 50°F to 160°F			
½"	5 yd.	15C381	*
¾"	5 yd.	15C385	*
1"	5 yd.	15C383	*
2"	5 yd.	15C384	*
6"	5 yd.	15C386	*
12"	5 yd.	15C382	*
Firm Foam, Low Temperature Acrylic Adhesive			
4951, 30°F to 200°F			
½"	5 yd.	15C375	*
¾"	5 yd.	15C379	*
1"	5 yd.	15C377	*
2"	5 yd.	15C378	*
6"	5 yd.	15C380	*
12"	5 yd.	15C376	*
Solid Foam, General Purpose Acrylic Adhesive			
4910, 50°F to 200°F			
½"	5 yd.	15C303	*
¾"	5 yd.	15C307	*
1"	5 yd.	15C305	*
2"	5 yd.	15C306	*
6"	1 yd.	15C308	*
6"	5 yd.	15C309	*
12"	1 yd.	15C302	*
12"	5 yd.	15C304	*
4905, 50°F to 200°F			
½"	5 yd.	15C294	*
¾"	5 yd.	15C298	*
1"	5 yd.	15C296	*
2"	5 yd.	15C297	*
6"	1 yd.	15C299	*
6"	5 yd.	15C301	*
12"	1 yd.	15C293	*
12"	5 yd.	15C295	*

Size	Item No.		Pkg. Qty.
Shapes, Conformable Foam, Multipurpose Acrylic Adhesive			
Square - 4941, 60°F to 200°F			
½" sq.	15C343	*	5
¾" sq.	15C355	*	5
1" sq.	15C348	*	5
1½" sq.	15C347	*	5
2" sq.	15C350	*	5
Strip - 4941, 60°F to 200°F			
½" x 2"	15C339	*	5
½" x 3"	15C340	*	5
½" x 4"	15C341	*	5
¾" x 2"	15C352	*	5
¾" x 3"	15C353	*	5
¾" x 4"	15C354	*	5
1" x 2"	15C342	*	5
1" x 3"	15C344	*	5
1" x 4"	15C345	*	5
Circle - 4941, 60°F to 200°F			
½" dia.	15C338	*	5
¾" dia.	15C351	*	5
1" dia.	15C337	*	5
1½" dia.	15C346	*	5
2" dia.	15C349	*	5

** TapeCase product manufactured from 3M material.*

W	L	Item No.
TapeCase TC 485		
16 mil		
½"	49 ft.	**15D740**
¾"	49 ft.	**15D742**
1"	49 ft.	**15D738**
32 mil		
½"	32 ft.	**15D741**
¾"	32 ft.	**15D743**

W	L	Item No.
1"	32 ft.	**15D739**
3M 9087		
25mm	50m	**54EN47**
3M 9579		
25mm	33m	**54EN09**
3M 410M		
25mm	33m	**54EN35**
50mm	33m	**54EN12**

W	L	Item No.
3M 444		
25mm	33m	**54EN55**
3M 9576		
12mm	55m	**54EN36**
25mm	55m	**54EN41**
3M 469		
2"	60 yd.	**48UV69**
3M 9420		
2"	108 ft.	**2DEB5**

Double-Sided Tape

- Feature pressure-sensitive adhesive on both sides
- For more sizes, go to Grainger.com® and search "Double-Sided Tape".

No. 54EN47



Selection Guide

Model No.	Thickness	Min. Performance Temp.	Max. Performance Temp.	Tape Color	Tape Backing Material	Tape Adhesive Strength*	Applications
TapeCase TC 485	16 and 32 mil	30°F	105°F	Clear	Rubber	700 oz/in	Bonds to fabrics, metals, plastics, and polyethylene sheeting. Also for lightweight insulation panels and kickplates, and lightweight trim. Solvent-free hot-melt rubber resin adhesive.
3M 9087	59 mil	0°F	160°F	White	PVC	142 oz/in	Ideal for metal fabrication, furniture trim, plastic extrusions, indoor/outdoor signs, badge and nameplates, print finishing, and splicing. Modified acrylic adhesive. Good adhesion for both low and high energy substrates. Bonds to wide variety of similar and dissimilar materials.
3M 9579	5 mil	0°F	120°F	White	Kraft Paper	80 oz/in	Bonds to UV coatings, provides temporary holding to metals, wood, plastic, concrete, and linoleum. Also used for splicing rough or coated materials and splicing carpet backing. Rubber adhesive.
3M 410M	5.9 mil	0°F	200°F	Tan	Paper	65 oz/in	Designed for temporary holding while parts are being finished in the milling process. Also used for mounting rubber or photopolymer printing plates to print cylinders, splicing and core starting papers, foils, films, and fabrics, and attaching golf club grips. Rubber adhesive.
3M 444	3.9 mil	0°F	180°F	Clear	Polyester	32 oz/in	Ideal for textured plastics, foam lamination, fabrics, coated papers, and gasket attachment. Medium-firm acrylic adhesive delivers high adhesion form for efficient laminating procedures.
3M 9576	3.9 mil	Not Rated	125°F	Clear	Polypropylene	30 oz/in	Performs well in high-speed applications and is ideal for the printing industry. Acrylic adhesive.
3M 469	1.0 mil	-40°F	200°F	Red	Paper	50 oz/in	For high-speed flying splices on a variety of paper grades and other printing applications that require visibility. Performs well in applications which require high temperature drying ovens.
3M 9420	4 mil	-40°F	150°F	Red	Polyester	25 oz/in	Provides excellent peel and shear strength making it great for rigorous slicing applications and bonding plastic to metals.

** Adhesion varies by substrate, time and temperature.*

Foam Tape

- Black color
- Performance temp.: 0° to 150°F
- TapeCase product manufactured from 3M material

Flexible and weather-resistant, this closed-cell vinyl tape can handle a variety of gasketing, sealing, baffling, cushioning, and insulating applications.

W	5-YD. ROLL Item No.
3M 4504, 250 mil Thickness	
¾"	**15D041**
1"	**15C923**
3M 4508, 125 mil Thickness	
¾"	**15D042**
1"	**15C924**
3M 4516, 62 mil Thickness	
¾"	**15D043**
1"	**15C925**



No. 15D042



No. 15C927

Polyken 3M TapeCase — Construction Seaming, Preservation, and Polyethylene Film Tape

Selection Guide

Model No.	Thickness	Perf. Temp.	Applications
Construction Seaming Tape			
8087	3.00 mil	-40° to 220°F	Polypropylene tape with acrylic adhesive. Resists sunlight and weather up to 4 months. Ideal for seaming, sealing, and repairing of house wrap, sheathing, moisture barriers, and other construction materials.
Preservation Sealing Tape			
481	9.80 mil	Up to 170°F	UV-, stain-, and moisture-resistant polyethylene tape with rubber-resin adhesive leaves no residue upon removal. Ideal for shrink-wrapped sheeting, tarps, and plastic sheeting. Also ideal for outdoor applications and transportation of equipment and marine craft.
No. 54EN32	9.50 mil	Up to 170°F	
4811	9.50 mil	Up to 170°F	
Polyethylene Film Tape			
Polyken 827	8.00 mil	40° to 200°F	UV- and moisture-resistant tape conforms to irregular surfaces. Superior adhesion to PE sheeting and rough surfaces. For seaming, sealing, splicing, label protection, and as boat shrink tape.

W	L	Tape Color	Item No.	
3M 8087				
48mm	5 yd.	Red	**15C941**	*
72mm	5 yd.	Red	**15C982**	*
3M 481				
1"	5 yd.	Black	**15C926**	*
2"	5 yd.	Black	**15C971**	*
3"	5 yd.	Black	**15D054**	*
50mm	32m	Black	**54EN32**	
3M 4811				
1"	5 yd.	White	**15C927**	*
2"	5 yd.	White	**15C972**	*

W	L	Tape Color	Item No.	
3"	5 yd.	White	**15D055**	*
4"	5 yd.	White	**15D159**	*
6"	5 yd.	White	**15D269**	*
Polyken 827				
48mm	33m	Clear	**10C010**	
48mm	33m	Black	**15R501**	
48mm	33m	White	**15R502**	
48mm	55m	Red	**15R498**	
48mm	55m	White	**15R499**	
48mm	55m	White	**15R503**	

** TapeCase product manufactured from 3M material.*

TapeCase — Polyethylene Film Tape

No. 15C767



Selection Guide

Model No.	Thickness	Min. Performance Temp.	Max. Performance Temp.	Applications
TapeCase S134	9.00 mil	30°F	160°F	Low-residue aggressive adhesive bonds well to most surfaces over a wide temp. range. For polyethylene splicing, surface protection, and industrial assembly applications. S133 series has serrated edge for easy tearing. Comformable.
TapeCase S133	7.50 mil	30°F	160°F	

W	L	Tape Color	Item No.
TapeCase S134			
¾"	5 yd.	White	**15D481**
¾"	36 yd.	White	**15C771**
1"	5 yd.	White	**15D409**
1"	36 yd.	White	**15C774**
2"	5 yd.	White	**15D442**
2"	36 yd.	White	**15C772**
3"	5 yd.	White	**15D499**
3"	36 yd.	White	**15C773**

W	L	Tape Color	Item No.
TapeCase S133			
2"	5 yd.	Black	**15D432**
2"	5 yd.	Red	**15D433**
2"	5 yd.	Silver	**15D434**
2"	5 yd.	White	**15D435**
48mm	55m	Red	**15C767**
48mm	55m	Silver	**15C768**
48mm	55m	Black	**15C769**
48mm	55m	White	**15C770**

Double-Sided Urethane Foam Tape Rolls and Shapes



Rolls



Squares

Selection Guide

3M Model No.	Thickness	Tape Adhesive Strength	Applications
4004	250 mil	62 oz/in	Open-cell foam is designed for indoor use: mounting soap dispensers and air fresheners, signage, kickplates, and other miscellaneous mounting. Offer excellent shear strength, good temperature resistance, and vibration damping characteristics. Acrylic adhesive.
4008	125 mil	Not Rated	
4016	62.5 mil	Not Rated	
4026	62 mil	—	
4032	31 mil	Not Rated	
4052	31 mil	Not Rated	
4056	62.5 mil	100 oz/in	

Tape Width	Tape Length	Item No.	
4004 Tape Rolls, Tan			
¼"	5 yd	**15C134**	*
½"	5 yd	**15C132**	*
¾"	5 yd	**15C137**	*
1"	5 yd	**15C135**	*
2"	5 yd	**15C136**	*
6"	5 yd	**15C138**	*
4008 Tape Rolls, Off-White			
¾"	7 yd	**1YBX5**	
4008 Tape Rolls, Tan			
¼"	5 yd	**15C141**	*
½"	5 yd	**15C139**	*
¾"	5 yd	**15C145**	*
1"	5 yd	**15C142**	
1½"	5 yd	**15C143**	*
2"	5 yd	**15C144**	*
3"	5 yd	**15C146**	*
4"	5 yd	**15C147**	*
6"	5 yd	**15C148**	*
12"	5 yd	**15C140**	*
4016 Tape Rolls, Tan			
¼"	5 yd	**15C151**	*
½"	5 yd	**15C149**	*
¾"	5 yd	**15C155**	*
¾"	15 yd	**1YBX4**	
1"	5 yd	**15C152**	*
1½"	5 yd	**15C153**	*
2"	5 yd	**15C154**	*
3"	5 yd	**15C156**	*
6"	5 yd	**15C157**	*
12"	5 yd	**15C150**	*
4032 Tape Rolls, Tan			
¼"	5 yd	**15C160**	*
½"	5 yd	**15C158**	*
¾"	5 yd	**15C164**	*
1"	5 yd	**15C161**	*
1½"	5 yd	**15C162**	*
2"	5 yd	**15C163**	*
3"	5 yd	**15C165**	*
4"	5 yd	**15C166**	*
6"	5 yd	**15C167**	*
12"	5 yd	**15C159**	*

Tape Width	Tape Length	Item No.	
4052 Tape Rolls, Black			
½"	5 yd	**15C168**	*
¾"	5 yd	**15C172**	*
1"	5 yd	**15C170**	*
2"	5 yd	**15C171**	*
6"	5 yd	**15C173**	*
12"	5 yd	**15C169**	*
4056 Tape Rolls, Black			
½"	5 yd	**15C174**	*
¾"	5 yd	**15C178**	*
1"	5 yd	**15C176**	*
2"	5 yd	**15C177**	*
6"	5 yd	**15C179**	*
12"	5 yd	**15C175**	*

Tape Shape	Size	Item No.	Pkg. Qty.	
Shapes				
4008, Tan				
Square	1" x 1"	**15D096**	162	*
Strip	2" x 1"	**16U611**	162	*
Strip	3" x 1"	**15D097**	108	*
4016, Tan				
Circle	¾ in	**16U618**	27	*
Circle	1 in	**16U613**	25	*
Square	½" x ½"	**16U612**	256	*
Square	¾" x ¾"	**16U619**	256	*
Square	1" x 1"	**15D098**	162	*
Square	1" x 1"	**16U614**	256	*
Strip	1½" x ¾"	**16U616**	256	*
Strip	2" x 1"	**16U615**	162	*
Strip	3" x 1"	**15D099**	108	*
Strip	4½" x ¾"	**16U617**	40	*
4026, Off-White				
Square	1" x 1"	**24A742**	1000	
4032, Tan				
Square	1" x 1"	**15D101**	324	*
Strip	2" x 1"	**15D102**	324	*
Strip	3" x 1"	**15D103**	216	*

** TapeCase product manufactured from 3M material.*



Double-Sided Removable Foam Tape

- 31-mil thick
- Adhesion: 240 oz./in.
- Clear color

3M™ model 4658F is a foam tape with high bond strength, temperature and solvent resistance, and static shear holding power. Use for mounting signs, smoke alarms, POP displays, dispensers, and nameplates. Performance temp.: 0° to 175°F.

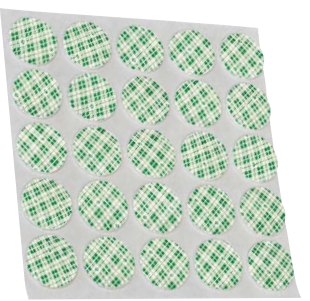
Tape Width	4 YD Item No.		27 YD Item No.
½ in	**15C287**	*	**32GV21**
¾ in	**15C291**	*	**32GV22**
1 in	**15C289**	*	**32GV23**
2 in	**15C290**	*	**32GV24**
6 in	**15C292**	*	**32GV25**
12 in	—		**32GV26**

** TapeCase product manufactured from 3M material.*

Double-Sided Polyethylene Foam Tape Rolls and Shapes

Selection Guide

3M Model No.	Thickness	Tape Adhesive Strength	Applications
50° to 120°F			
4462	31 mil	128 oz/in	For indoor mounting and joining applications: bonding to polyethylene, polypropylene, and other plastics. Rubber adhesive.
4466	62 mil	128 oz/in	
50° to 158°F			
4492	31 mil	128 oz/in	Used for mounting nameplates on awards and novelties, and point of purchase displays and signs. Acrylic adhesive.
4496	62 mil	128 oz/in	

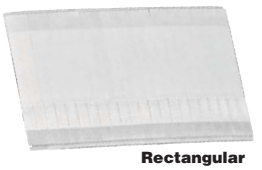


Circle

Size	Item No.	Pkg. Qty.	
Shapes, 4466 White			
Circle			
¾" dia.	**16U623**	100	*
1" dia.	**16U620**	100	*
Square			
½" sq.	**15C252**	256	*
¾" sq.	**16U624**	256	*
1" sq.	**16U621**	256	*
Strip			
1½" x ¾"	**16U622**	256	*
4½" x ¾"	**15C253**	40	*

Tape Width	Tape Length	BLACK Item No.		WHITE Item No.	
4462 Tape Rolls					
½"	5 yd	**15C228**	*	**15C230**	*
¾"	5 yd	**15C235**	*	**15C236**	*
1"	5 yd	**15C232**	*	**15C233**	*
2"	5 yd	**15C234**	*	**15C239**	*
6"	5 yd	**15C237**	*	**15C238**	*
12"	5 yd	**15C229**	*	**15C231**	*
4466 Tape Rolls					
½"	5 yd	**15C240**	*	**15C242**	*
¾"	5 yd	**15C248**	*	**15C249**	*
1"	5 yd	**15C244**	*	**15C245**	*
2"	5 yd	**15C246**	*	**15C247**	*
6"	5 yd	**15C250**	*	**15C251**	*
12"	5 yd	**15C241**	*	**15C243**	*
4492 Tape Rolls					
½"	5 yd	**15C254**	*	**15C256**	*
¾"	5 yd	**15C262**	*	**15C263**	*
¾"	72 yd	**15D144**	*	—	
1"	5 yd	**15C258**	*	**15C259**	*
1"	72 yd	**15D143**	*	—	
2"	5 yd	**15C260**	*	**15C261**	*
6"	5 yd	**15C264**	*	**15C265**	*
12"	5 yd	**15C255**	*	**15C257**	*
4496 Tape Rolls					
½"	5 yd	**15C266**	*	**15C268**	*
¾"	5 yd	**15C274**	*	**15C275**	*
¾"	36 yd	**15D146**	*	—	
1"	5 yd	**15C270**	*	**15C271**	*
1"	36 yd	**15D145**	*	—	
2"	5 yd	**15C272**	*	**15C273**	*
6"	5 yd	**15C276**	*	**15C277**	*
12"	5 yd	**15C267**	*	**15C269**	*
25mm	33m	—		**54EN24**	

** TapeCase product manufactured from 3M material.*



Rectangular



Circle

Tape Length	Tape Width	BLACK Item No.	WHITE Item No.
Circle			
½ in	½"	**16U780**	**16U774**
¾ in	¾"	**16U781**	**16U775**
1 ½ in	1½"	**15C803**	**16U777**
1 in	1"	**16U782**	**16U776**
2 in	2"	—	**16U778**
3 in	3"	**16U784**	**16U779**

Double-Sided Foam Tape Strips and Circles with Extended Pull Tab

- 62.5-mil thick
- Adhesion: 90 oz./in.
- Pkg. qty.: 25

Polyethylene foam tapes with acrylic adhesive for both indoor and outdoor applications. Excellent thermal insulation properties for good performance over a wide temperature range. Use for general bonding and mounting, cushioning, gasketing, spacing and sound attenuation. Performance temp.: -20° to 212°F.

Tape Length	¼" WIDTH Item No.	½" WIDTH Item No.	¾" WIDTH Item No.		1" WIDTH Item No.	
Rectangular Strips, White						
¾ in	**15C778**	**15C784**	**15C790**	*	—	
1 in	**15C779**	**15C785**	**15C791**		**15C796**	*
2 in	**15C780**	**15C786**	**15C792**		**15C797**	
4 in	**15C781**	**15C787**	**15C793**		**15C798**	
6 in	**15C782**	**15C788**	**15C794**		**15C799**	
10 in	**15C783**	**15C789**	—		**15C801**	
12 in	**15D690**	**15D689**	**15D691**		**15C802**	

** Square.*

Adhesive Hook-and-Loop Tape and Shapes

- Strips of stiff hooks and pliable loops engage to form quick-fastening attachment
- VELCRO® brand rubber adhesive features a strong water-resistant closure, excluding retail packs

Type	L	W	BLACK Item No.	WHITE Item No.
VELCRO® Brand Cut-to-Length Rolls				
Acrylic Adhesive				
Hook	75 ft	½ in	5GTN7	5GTN5
Loop	75 ft	½ in	5GTN8	5GTN6
Hook	75 ft	⅝ in	5GTP1	5GTN9
Loop	75 ft	⅝ in	5GTP2	5GTP0
Hook	75 ft	¾ in	5GTP5	5GTP3
Loop	75 ft	¾ in	5GTP6	5GTP4
Hook	75 ft	1 in	5GTP9	5GTP7
Loop	75 ft	1 in	5GTR0	5GTP8
Hook	75 ft	1 ½ in	5GTR3	5GTR1
Loop	75 ft	1 ½ in	5GTR4	5GTR2
Hook	75 ft	2 in	G8955	G8955
Loop	75 ft	2 in	G8956	G8956
Hook	75 ft	4 in	G8957	G8957
Loop	75 ft	4 in	5GTT2	5GTT0
Rubber Adhesive				
Hook	75 ft	1 in	5JLF7	—
Loop	75 ft	1 in	5JLF8	—
Hook	75 ft	2 in	5JLF9	—
Loop	75 ft	2 in	5JLG0	—
Scotchmate Cut-to-Length Rolls				
Acrylic Adhesive				
Hook	150 ft	1 in	1F222	1F220
Loop	150 ft	1 in	1F223	1F221

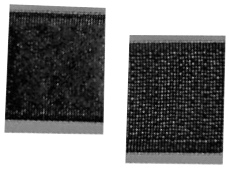
Type	L	W	BLACK Item No.	WHITE Item No.
3M Cut-to-Length Rolls				
Acrylic Adhesive				
Hook	30 ft	1 in	—	16U570 *
Loop	30 ft	1 in	—	16U571 *
Plasticizer Resistant Acrylic Adhesive				
Hook	30 ft	1 in	16U572 *	—
Loop	30 ft	1 in	16U573 *	—
Premium Performance Acrylic Adhesive				
Loop	30 ft	1 in	16U581 *	—
Hook	30 ft	1 in	16U582 *	—
General Purpose Rubber Adhesive				
Hook	15 ft	1 in	16U607 *	—
Loop	15 ft	1 in	16U608 *	—
Medium Tack Synthetic Rubber Adhesive				
Hook	30 ft	1 in	16U576 *	—
Loop	30 ft	1 in	16U577 *	—
High Tack Synthetic Rubber Adhesive				
Hook	30 ft	1 in	16U574 *	—
Loop	30 ft	1 in	16U575 *	—

L	W	Pkg. Qty.	BLACK Item No.	WHITE Item No.
VELCRO® Brand Hook-and-Loop Set				
Acrylic Adhesive				
1 in	1 in	50	5JLH2	5JLH3
4 in	1 in	50	5JLH4	5JLH5
2 in	2 in	50	5JLH6	5JLH7
Rubber Adhesive				
⅞ in	⅞ in	12	6PXV4	6PXV3

L	W	Pkg. Qty.	BLACK Item No.	WHITE Item No.
GA Hook-and-Loop Set				
Rubber Adhesive				
1 in	1 in	100	16U728	16U729
2 in	1 in	100	16U730	16U733
2 in	1 in	200	16U731	16U734
2 in	1 in	400	16U732	16U735
3 in	1 in	100	16U736	16U739
3 in	1 in	200	16U737	16U740
3 in	1 in	300	16U738	16U741
6 in	1 in	50	16U742	16U745
6 in	1 in	75	16U743	16U746
6 in	1 in	150	16U744	16U747
12 in	1 in	25	16U748	16U751
12 in	1 in	50	16U749	—
12 in	1 in	75	—	16U753
3M Hook-and-Loop Set				
Acrylic Adhesive				
1 in	1 in	100	—	16U585 *
2 in	1 in	100	—	16U592 *
3 in	1 in	100	—	16U599 *
Plasticizer Resistant Acrylic Adhesive				
1 in	1 in	100	16U586 *	—
2 in	1 in	100	16U593 *	—
3 in	1 in	100	16U601 *	—
Premium Performance Acrylic Adhesive				
1 in	1 in	100	16U591 *	—
2 in	1 in	100	16U598 *	—
3 in	1 in	100	16U606 *	—
General Purpose Rubber Adhesive				
1 in	1 in	100	16U587 *	—
2 in	1 in	100	16U594 *	—
3 in	1 in	100	16U602 *	—
Medium Tack Synthetic Rubber Adhesive				
1 in	1 in	100	16U589 *	—
2 in	1 in	100	16U596 *	—
3 in	1 in	100	16U604 *	—
High Tack Synthetic Rubber Adhesive				
1 in	1 in	100	16U588 *	—
2 in	1 in	100	16U595 *	—
3 in	1 in	100	16U603 *	—



Cut-to-Length Roll
No. 5GTN7



Hook-and-Loop Set
No. 16U728



Cut-to-Length Retail Pack
No. 1F215

W	Brand	BLACK Item No.	WHITE Item No.
Cut-to-Length Rolls, 15 ft Retail Packs			
Rubber Adhesive			
¾ in	VELCRO® Brand	5JLD8	5JLD7
¾ in	Tapecase	16U785	16U786
1 in	Scotchmate	1F216	1F215
2 in	VELCRO® Brand	5JLE1	5JLE0

Dia.	Color	Item No.	Pkg. Qty.
VELCRO® Brand Dots, Retail Packs			
Rubber Adhesive			
⅝"	Black	6PXV2	15
⅝"	White	6PXV1	15
¾"	Beige	5JLD9	200
¾"	Black	6PXV7	100
¾"	White	6PXV6	100

Dia.	Type	VELCRO® BRAND ACRYLIC ADHESIVE Black Item No.	Black Pkg. Qty.	White Item No.	White Pkg. Qty.	GA RUBBER ADHESIVE Black Item No.	Black Pkg. Qty.	White Item No.	White Pkg. Qty.
Dots									
⅜	Hook	5GTT5	1800	5GTT3	1800	16U754	1890	—	—
⅜	Loop	5GTT6	1800	5GTT4	1800	16U764	1890	16U769	1890
½	Hook	5GTT9	1440	5GTT7	1440	16U755	1565	16U760	1565
½	Loop	5GTU0	1440	5GTT8	1440	16U765	1565	16U770	1565
⅝	Hook	5GTU3	1200	5GTU1	1200	16U756	1261	16U761	1261
⅝	Loop	5JLC4	1200	5GTU2	1200	16U766	1261	16U771	1261
¾	Hook	5JLC7	1028	5JLC5	1028	16U757	1030	16U762	1030
¾	Loop	5JLC8	1028	5JLC6	1028	16U767	1030	16U772	1030
⅞	Hook	5JLD1	900	5JLC9	900	16U758	945	16U763	945
⅞	Loop	5JLD2	900	5JLD0	900	16U768	945	16U773	945
1⅜	Hook	5JLD5	600	5JLD3	600	—	—	—	—
1⅜	Loop	5JLD6	600	5JLD4	600	—	—	—	—

** TapeCase product manufactured from 3M material.*



Type	L	W	Color	Item No.
3M Fire-Resistant Hook and Loop Rolls				
No Adhesive				
Loop	150 ft	1 in	Black	29WR47
Hook	150 ft	1 in	Black	29WR48
Rubber Adhesive				
Loop	150 ft	⅝ in	Black	29WR50
Hook	150 ft	⅝ in	Black	29WR52
Loop	150 ft	1 in	Black	29WR49
Hook	150 ft	1 in	Black	29WR51

Nonadhesive Reclosable Hook-and-Loop Rolls

Thin, back-to-back fastener with 1 side covered in hooks and the reverse side covered in loops. For weather-resistant label, write on loop side. Used for cable management.

W	L	BLACK Item No.	WHITE Item No.	RED Item No.	BLUE Item No.	ORANGE Item No.
VELCRO® Brand One Wrap Tape						
½"	75 ft.	5JLE2	—	—	—	—
¾"	37 ft. 6"	5JLH8	5JLJ0	5JLH9	5JLJ1	5JLJ2
¾"	75 ft.	5JLE3	5JLE5	5JLE4	5JLE6	5JLE7
1"	75 ft.	5JLE8	—	—	—	—
1½"	75 ft.	5JLE9	—	—	—	—
2"	75 ft.	5JLF0	—	—	—	—

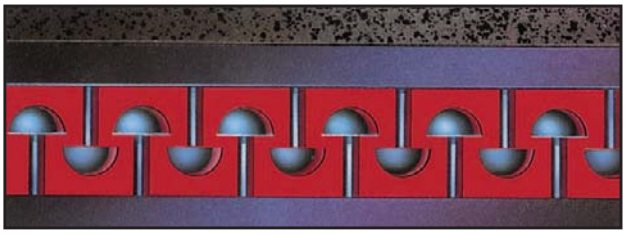
W	L	Pkg. Qty.	BLACK Item No.	WHITE Item No.	RED Item No.	BLUE Item No.	GREEN Item No.
VELCRO® Brand One Wrap Straps							
¾"	8"	45	5JLF1	5JLF2	5JLF3	5JLF4	5JLF5
¾"	12"	30	5JLF6	—	—	—	—

W	L	BLACK Item No.
3M Rolls		
½ in	5 ft	16U648
½ in	20 ft	16U644
½ in	50 ft	16U646
½ in	75 ft	16U650
⅝ in	5 ft	16U694
⅝ in	20 ft	16U690
⅝ in	50 ft	16U692
⅝ in	75 ft	16U696
¾ in	5 ft	16U680
¾ in	20 ft	16U676
¾ in	50 ft	16U678
¾ in	75 ft	16U682
1 ½ in	5 ft	16U658
1 in	5 ft	16U662

W	L	BLACK Item No.
1 ½ in	20 ft	16U654
1 in	20 ft	16U642
1 in	50 ft	16U652
1 ½ in	50 ft	16U656
1 ½ in	75 ft	16U660
1 in	75 ft	16U664
2 in	5 ft	16U670
2 in	20 ft	16U666
2 in	50 ft	16U668
2 in	75 ft	16U672
3 in	5 ft	16U686
3 in	20 ft	16U674
3 in	50 ft	16U684
3 in	75 ft	16U688



No. 5JLE4



No. 6JT53



No. 1YBZ7



No. 16U698

Reclosable Fasteners

3M™ Dual Lock™ Interlocking mushroom-shaped stems snap together to provide tensile strength strong enough to replace mechanical fasteners. Acrylic adhesive backing is suitable for outdoor use. Bond to glass, bare metal, sealed wood, vinyl, and polystyrene. Low-profile models are thinner and more flexible.

W	L	Adhesive Type	Color	Item No.	
Reclosable Fastener Rolls					
Self-Mating					
¾"	150 ft.	Rubber Adhesive	Black	**29WR55**	
¾"	150 ft.	Acrylic Adhesive	Black	**29WR56**	
1"	30 ft.	Acrylic Adhesive	Black	**16U579**	*
1"	30 ft.	Acrylic Adhesive	Clear	**16U580**	*
1"	30 ft.	Rubber Adhesive	Black	**16U578**	*
1"	150 ft.	Acrylic Adhesive	Black	**6JT53**	
1"	150 ft.	Acrylic Adhesive	Clear	**6JT64**	
1"	150 ft.	Rubber Adhesive	Black	**1YBZ7**	
Self-Mating, Low Profile					
1"	30 ft.	Acrylic Adhesive	Clear	**16U583**	*
1"	30 ft.	Acrylic Adhesive	Black	**16U584**	*
Reclosable Fastener Mini-Packs					
Self-Mating					
1"	15 ft.	Acrylic Adhesive	Clear	**1F219**	

Description	Adhesive Type	Pkg. Qty.	BLACK Item No.		CLEAR Item No.	
Reclosable Fastener Shapes						
Square						
1"W x 1"L	Acrylic Adhesive	100	**16U698**	*	**16U702**	*
1"W x 1"L	Rubber Adhesive	100	**16U590**	*	—	
Square, Low Profile						
1"W x 1"L	Acrylic Adhesive	100	**16U708**	*	**16U705**	*
Rectangle						
1"W x 2"L	Acrylic Adhesive	100	**16U699**	*	**16U703**	*
1"W x 3"L	Acrylic Adhesive	100	**16U701**	*	**16U704**	*
1"W x 2"L	Rubber Adhesive	100	**16U597**	*	—	
1"W x 3"L	Rubber Adhesive	100	**16U605**	*	—	
Rectangle, Low Profile						
1"W x 2"L	Acrylic Adhesive	100	**16U709**	*	**16U706**	*
1"W x 3"L	Acrylic Adhesive	100	**16U710**	*	**16U707**	*
Dots, Low Profile						
⅜" Dia. x 75 ft. L	Acrylic Adhesive	1800	—		**5JLG1**	
½" Dia. x 75 ft. L	Acrylic Adhesive	1440	—		**5JLG2**	
¾" Dia. x 75 ft. L	Acrylic Adhesive	1028	—		**5JLG3**	
⅞" Dia. x 75 ft. L	Acrylic Adhesive	900	—		**5JLG4**	

** TapeCase product manufactured from 3M material.*



Cinching Straps

Thin, back-to-back, hook-and-loop fastener. Reusable high-strength strap has plastic buckle and ¼" I.D. grommet. Used for cable management.

W	L	Pkg. Qty.	BLACK Item No.	ORANGE Item No.
1"	2½"	25	**6PXV5**	—
1"	8"	10	**5JLG7**	—
1"	12"	10	**5JLG8**	—
2"	18"	10	**5JLG9**	**38W986**
2"	24"	10	**5JLH0**	—
2"	25"	10	—	**38W987**
2"	3 ft.	10	**5JLH1**	**38W988**



No. 1F238



No. 49H655



No. 54EN53

Adhesive Transfer Tape and Applicator

Rolls of pressure-sensitive adhesive on a special release liner. Bonds thin, flexible materials where gap filling is not needed.

SCOTCH® ATG TAPES

- Applied with Scotch® ATG 700 Applicator

Model 926—Ideal for materials with glossy coatings, for bonding foam insulation, and for difficult-to-bond folders and boxes. Adhesion strength: 100 oz./in.

Model 969—For applications requiring a thicker, tackier adhesive with strong initial adhesion. Adhesion strength: 75 to 100 oz./in.

Model 924—For bonding materials such as metal, glass, wood, paper, and many plastics. Adhesion strength: 25 oz./in.

Model 928—Low-tack adhesive for bonding applications on 1 side and high adhesion on other side for permanent applications. Adhesion strength: 50 oz./in. Frontside, 3 oz./in. Backside.

ATG 700 APPLICATOR

Applies adhesive transfer tape while simultaneously removing and rewinding the liner.

3M™ STANDARD TAPES

- For hand applications only

Model 950—Provide high-strength adhesion for applications that require a thicker, tackier adhesive. Adhesion strength: 75 oz./in.

Model 465—All-purpose tape for bonding materials such as metal and glass. Adhesion strength: 25 to 100 oz./in.

Models 467MP and 468MP—Bonds graphic nameplates and overlays to metal and high surface energy plastics in the aerospace, medical and industrial equipment, automotive, appliance, and electronic markets. Model 467MP adhesion strength: 47 oz./in. Model 468MP adhesion strength: 66 oz./ in.

W	L	Item No.	
Scotch® ATG Tapes			
Model 926, 350°F, 5.00 mil Thickness			
13mm	16m	**54EN72**	
Model 969, 180°F, 5.00 mil Thickness			
½"	18 yd	**1F241**	
19mm	33m	**54EN50**	
Model 969, 180°F, 2.00 mil Thickness			
13mm	33m	**54EN58**	
Model 924, 180°F, 2.00 mil Thickness			
½"	60 yd	**29WT17**	
Model 928, 120°F, 2.00 mil Thickness			
½"	36 yd	**49H655**	
Scotch® ATG 700 Applicator			
For Use with ATG Tapes		**1F238**	

** TapeCase product manufactured from 3M material.*

W	Length	Item No.	
3M™ Standard Tapes			
Model 950, 250°F, 5.00 mil Thickness			
19mm	55m	**54EN53**	
25mm	55m	**54EN44**	
Model 465, 250°F, 2.00 mil Thickness			
19mm	55m	**54EN06**	
13mm	55m	**54EN61**	
25mm	55m	**54EN13**	
1½"	60 yd	**24A663**	
Model 467MP, 400°F, 2.30 mil Thickness			
½"	20 yd	**15C845**	*
¾"	20 yd	**15D023**	*
1"	20 yd	**15C833**	*
2"	20 yd	**15C948**	*
3"	20 yd	**15C999**	*
4"	20 yd	**15D108**	*
6"	20 yd	**15D246**	*
12"	20 yd	**15C846**	*
12"	12 in	**15C892**	*
Model 468MP, 400°F, 5.20 mil Thickness			
½"	20 yd	**15C847**	*
¾"	20 yd	**15D024**	*
1"	20 yd	**15C834**	*
2"	20 yd	**15C949**	*
3"	20 yd	**15D001**	*
4"	20 yd	**15D109**	*
6"	20 yd	**15D247**	*
12"	20 yd	**15C848**	*
12"	12 in	**15C893**	*


No. 52WX72


No. 3EGL7


No. 3KT68


No. 3EGL1


No. 3EGL4

GA GRAINGER APPROVED Scotch 3M

Handheld and Mountable Carton Sealing Tape Dispensers

- Dispensers accommodate tape with 3"-dia. core

PISTOL

Low Noise—Innovative tape roll loading enables "Low Noise" feature, for use in sensitive work environments.

Heavy-Duty—Innovative core holds rolls up to 250 yd. Dispenser also has an adjustable brake for easy tension control.

CLAM SHELL

Durable, lightweight construction reduces hand fatigue.

RIBBED

Roll-on applicator allows operator to attach, apply, and cut tape with 1 hand. Adjustable brake controls tape unwind and eliminates wrinkling.

MOUNTABLE

Custom-mount on walls, equipment, tables, and to the sides of work stations for easy dispensing.

Item	Tape Brake	Max. Tape Width	Construc.	Brand	Item No.
Pistol					
Tape Dispenser	Adjustable	2"	Plastic/Metal	GA	**52WX72**
Tape Dispenser	Adjustable	3"	Plastic/Metal	GA	**52WX73**
Tape Dispenser	—	2"	Plastic	Scotch	**3EGL3**
Tape Dispenser	Hand	1"	Plastic	3M	**2A671**
Low Noise Tape Dispenser	Spring Loaded	2"	Plastic/Metal	Scotch	**3EGL7**
Low Noise Tape Dispenser	Spring Loaded	3"	Plastic/Metal	Scotch	**3EGL8**
Heavy Duty Tape Dispenser	Adjustable	2"	Plastic/Metal	Scotch	**3EGL2**
Clam Shell					
Painter's Tape Applicator	—	2"	Metal	Scotch	**3EGL1**
Ribbed					
Tape Dispenser	—	2"	Plastic	Scotch	**3KT68**
Tape Dispenser	Built-In	2"	Plastic	Scotch	**3FKN6**
Mountable					
Pull/Cut Mountable Tape Dispenser	—	1"/24mm	Metal	3M	**3EGL4**
Pull/Cut Mountable Tape Dispenser	—	2"/48mm	Metal	3M	**3EGL5**

Security Tape

NovaVision

- Performance temp.: -40° to 160°F

Tape is designed to stop the theft of valuable goods. Once the tape strip is opened or removed, a hidden message alerts the user that contents may have been tampered with. Premium tapes Nos. 38UZ37 and 38UZ38 have full adhesive transfer for a larger bolder tamper message. Offers versatile performance with virtually all surfaces, including shrink wrap film. The No-Rez labels reveal a void message when the label is removed, and leave no sticky residue behind on the applied surface.



Tamper-Evident Trac Seal
No. 16G851

W	L	Thickness	Tape Color	Item No.	Pkg. Qty.
Tamper-Evident Tape					
1"	180 ft.	2.00 mil	Red	**16G849**	1
2"	180 ft.	2.00 mil	Red	**16G846**	1
2"	180 ft.	2.00 mil	Blue	**16G847**	1
2"	180 ft.	2.00 mil	Green	**16G848**	1
Premium Tamper-Evident Tape					
1"	250 ft.	2.00 mil	Red	**38UZ37**	1
2"	180 ft.	2.00 mil	Red	**38UZ38**	1
Tamper-Evident Trac Seal					
1"	4"	3.00 mil	Red/White	**16G850**	250
1"	2"	3.00 mil	Red/White	**16G851**	250
Tamper-Evident Secure Strip					
2"	9"	3.00 mil	Red	**16G852**	250
No-Rez, Tamper-Evident Label					
½"	1⅛"	3.00 mil	Red	**16G853**	250
½"	2⅛"	3.00 mil	Red	**16G854**	250
¾"	3⅛"	3.00 mil	Red	**16G856**	250
1"	1½"	3.00 mil	Red	**16G855**	250


No. 23M272


No. 29WT11


No. 54EN29

ipg intertape polymer group GA GRAINGER APPROVED Scotch 3M

Carton Sealing Filament Tape

- 3"-dia. core

GA—Reinforced tape with rubber adhesion has high shear strength and is good for light duty strapping, packaging, and bundling.

IPG®—Fiberglass-reinforced tape provides superior adhesion for light- to medium-load applications.

Scotch® Filament Tape—Scotch® Filament 880 tapes feature polyester yarn filaments with increased abrasion and shock resistance. Scotch® Filament 890MSR has continuous fiberglass yarn filaments for a very high tensile strength.

Scotch® Light Duty Packaging Tape 681—Features high-tack, moisture- and chemical-resistant rubber adhesive.

3M® Filament Tape 8934—General purpose clear fiberglass-reinforced tape features a synthetic rubber resin adhesive.

Width	Length	Tape Color	Tensile Strength	Item No.	Pkg. Qty.
GA					
12mm	55m	White	100 lb/in	**494K12**	72
18mm	55m	White	100 lb/in	**494K13**	48
24mm	55m	White	100 lb/in	**494K14**	36
48mm	55m	White	100 lb/in	**494K16**	24
IPG					
12mm	55m	Tan	110 lb/in	**23M278**	72
18mm	55m	Tan	175 lb/in	**23M272**	48
18mm	55m	Tan	300 lb/in	**23M275**	48
24mm	55m	Tan	110 lb/in	**23M270**	36
24mm	55m	Tan	300 lb/in	**23M276**	36
48mm	55m	Tan	175 lb/in	**23M274**	24
48mm	55m	Tan	300 lb/in	**23M277**	24
72mm	55m	Tan	110 lb/in	**23M279**	16
Scotch® Filament Tape 880					
1 1/16"	60 yd	Black	270 lb/in	**29WT05**	48
1 5/16"	60 yd	Clear	270 lb/in	**29WT06**	36
1⅞"	60 yd	Clear	270 lb/in	**29WT07**	24
Scotch® Filament Tape 890MSR					
1 5/32"	60 yd	Black	600 lb/in	**29WT11**	72
1 5/32"	60 yd	Clear	600 lb/in	**29WT12**	72
Scotch® Light Duty Packaging Tape 681					
13mm	66m	Clear	25 lb/in	**54EN29**	72
25.4mm	66m	Clear	25 lb/in	**54EN64**	36
3M® Filament Tape 8934					
9mm	55m	Clear	100 lb/in	**2DED1**	96
18mm	55m	Clear	100 lb/in	**3YTY7**	48
48mm	55m	Clear	100 lb/in	**15R520**	1
72mm	55m	Clear	100 lb/in	**54EN20**	12



No. 3W660

Scotch

Handheld Tape Dispenser Kit

Clam shell style dispenser securely seals packages quickly and efficiently. For heavy-duty packaging applications.

W	L	Includes	Mfr. Model	Item No.	Pkg. Qty.
2"	55 yd.	(2) 48mm x 50m Rolls of 375 Tape, (1) H122 Refillable Dispenser	PSD1	**3W660**	1
2"	55 Yd.	(4) 48mm x 50m Rolls of 375 Tape With (4) Built-in Disposable Hand Dispensers	PSD2	**3W661**	4


No. 11J925


No. 11J955


No. 11J978


No. 11J909


No. 11J922


No. 11J930

START International

Tape and Label Dispensers

- For additional Tape and Label Dispensers, see Grainger.com®

MANUAL

For tape rolls with 3" core. Nos. 11J931 to 11J933 are heavy-duty steel.

AUTOMATIC

Reliable electric models can autocut and dispense tape at specific lengths, reducing waste and improving consistency.

LABEL DISPENSERS

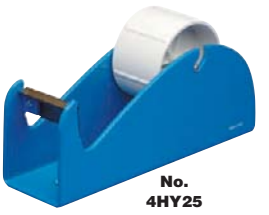
Easily peel and dispense labels or die-cut parts. Automatically rewind liner scrap and remove paper, vinyl, polyester, etc. from its liner for increased productivity.

Description	Max. Tape/ Label Width	Mfr. Model	Item No.
Manual Tape and Label Dispensers			
Multiroll, max. (2) 1" tape rolls	2"	SL7326	**11J925**
Multiroll, max. (3) 1" tape rolls	3"	SL7336	**11J926**
Multiroll, max. (4) 1" tape rolls	4"	SL7346	**11J927**
Multiuse Tape and Label	6"	SL9506	**11J931**
Multiuse Tape and Label	12"	SL9512	**11J932**
Multiuse Tape and Label	18"	SL9518	**11J933**
Tape Dispenser, 0.50" to 4"L	1"	ZCM0300	**11J975**
Automatic Electronic Tape Dispensers			
3 Preset Lengths, Battery or AC	1"	ZCM0800-WT	**11J976**
Auto Feed and Cut Tape Dispenser	2"	ZCM1000	**11J978**
For Narrow Tapes	2"	ZCM1000B	**11J979**
For Flimsy and Glass Cloth Tapes	2"	ZCM1000C	**11J980**
For Short Pieces of Tape, min. 0.2" cut L	2"	ZCM1000D	**11J981**
Dual Photo Sensors for 2-Rolls	2"	ZCM1000E	**11J982**
For Protective Film, Nonmarking Rollers	2"	ZCM1000NM	**11J984**
For Double-Sided and VHB Tapes	2"	ZCM1000-NS	**20XE13**
For Thin Tapes	2"	ZCM1000T	**11J987**
With Safety Guard Cutting Head	2"	ZCM1100	**11J988**
3 Programmable Lengths for Narrow Tapes	2"	ZCM2200B	**11K002**
3 Programmable Lengths For Flimsy and Glass Cloth Tapes	2"	ZCM2000C	**11J995**
2-Roll with 3 Programmable Lengths	2"	ZCM2000E	**11J996**
Electric Carousel Tape Dispenser	15/16"	TDA025B	**20XE12**
Heavy-Duty for High Production	3 1/8"	TDA080	**11J951**
Heavy-Duty with Laminator	2"	TDA080-LAM	**11J953**
Heavy-Duty with Liner Remover	2"	TDA080-LR	**11J954**
Heavy-Duty with 3 Programmable Lengths	3 1/8"	TDA080-M	**11J955**
Heavy-Duty for Protective Film	3 1/8"	TDA080-NM	**11J956**
Heavy-Duty for VHB and Foam Tapes	3 1/8"	TDA080-NS	**11J957**
Tape or Label Dispenser Stand			
Heavy-Duty External, 20" max. dia.	—	TDSTAND03	**11J970**
Label Dispensers			
Compact Electric Label Dispenser	2 1/4 in	LD3000	**39UL42**
Handheld Labeler	2 3/8"	LAP65-60	**11J895**
Electric Long and Wide Label Dispenser, 12" Max. Label Length	8 in	LDX8050	**11J912**
Electric Label Dispenser, 6" Max. Label Length	4 3/4 in	LD6050	**11J909**
Electric Long Label Dispenser, 12" Max. Label Length	5 in	LD8050	**11J910**
Electric Wide Label Dispenser	7 in	LDX6050	**11J911**
Electric Label Rewinder	4 1/2"	LR4500	**11J922**
Manual Bag Sealers with 3" Core			
Stainless Steel Sealer. 0.375" Slot Opening	3/8 in	SL7606	**11J929**
Heavy-Duty Steel Sealer w/ 0.625"W Neck Opening	3/4 in	SL7808K	**11J930**
Heavy-Duty Steel Sealer for Use with Paper or Thin Polyester Tape	3/8 in	SL7605K	**11J928**


No. 1UXR1


No. 3EGL6


No. 3FKN8


No. 4HY25


No. 52JH82


No. 2A673

BETTER PACKAGES, Inc. MARSH Marsh Shipping Supply Co., LLC Scotch

Benchtop Carton Sealing Tape Dispensers

ELECTRIC

- 115V, 60 Hz
- Cuts tape ¼" to 2" wide
- Max. roll dia.: 7"

2 operating modes (automatic, manual) with random length function.

No. 1UXR1—LED display and color-coded keypad. Dispenses premeasured lengths of tape from 1" to 39" and adjusts to accommodate 1" or 3" dia. core. Ideal for masking and strapping tapes.

MANUAL

No. 3EGL6—Automatically dispenses film-backed and paper tapes ½" to 4" lengths with each stroke.

No. 3FKN8—Pull-and-cut dispenser with multiple-roll capacity. Weighted design for stability on flat work surfaces. Dispenses film, paper, or filament tapes.

No. 4HY25—Coated steel frame, replaceable serrated blade, and rubber bottom prevent slipping. 2 mounting holes for securing to work surface. Dispenses 2"W nonreinforced tapes on 3" dia. core. Max. roll dia.: 5½".

No. 52JH82—Dispenses self adhesive tapes with a maximum width of 3", unlimited tape length.

No. 2A673—Ideal for frequent use. Dispenses 72-yd. rolls of tape. Rubber base holds dispenser firmly in place.

Power Requirements	H	W	L	Construc.	Max. Tape Width	Brand	Mfr. Model	Item No.
Benchtop Carton Sealing Tape Dispensers								
Electric	6"	5½"	8½"	Plastic	2"	Better Pack	PS2A	**1UXR1**
Manual	8½"	6½"	12½"	Plastic	1"/24mm	Scotch	M920	**3EGL6**
Manual	6¾"	5¼"	11"	Plastic	2"/48mm	Scotch	P52W	**3FKN8**
Manual	5"	2½"	9"	Metal	2"	Marsh	922	**4HY25**
Tape Dispenser								
Manual	4"	3⅝"	8⅞"	Metal	3"	Marsh	933	**52JH82**
Desktop Tape Dispenser								
Manual	—	—	—	Plastic	1"	Scotch	C25	**2A673**



No. 31HJ29



No. 15F814

GA GRAINGER APPROVED | ipg intertape polymer group | Scotch

Hot Melt Adhesive Carton Sealing Tape

- 3" dia. core

Bonds quickly, whether applied manually or automatically. For use with automatic carton sealing machines. Higher shear than acrylic.

For a complete list of Standards for Hot Melt Adhesive Carton Sealing Tape, go to Grainger.com® and enter "Item No.", and scroll down to "Standards" attribute.

Tape Width	Tape Length	Tape Application	Tape Color	Item No.	Pkg. Qty.
GA, 1.70 mil Thickness					
2"	110 yd.	Hand	Clear	**49XZ58**	36
GA, 1.90 mil Thickness					
48mm	50m	Hand	Tan	**31HJ30**	36
48mm	50m	Hand	Clear	**31HJ31**	6
48mm	100m	Hand	Clear	**31HJ32**	36
48mm	100m	Hand	Tan	**31HJ33**	36
48mm	914m	Machine	Clear	**31HJ34**	6
72mm	50m	Hand	Clear	**31HJ35**	24
72mm	50m	Hand	Tan	**31HJ37**	24
72mm	100m	Hand	Clear	**31HJ36**	24
72mm	100m	Hand	Tan	**31HJ38**	24
72mm	914m	Machine	Tan	**31HJ39**	4
48mm	50m	Hand	Clear	**31HJ29**	36
GA, 2.50 mil Thickness					
48mm	50m	Hand	Clear	**31HJ40**	36
GA, 2.60 mil Thickness					
72mm	50m	Hand	Clear	**31HJ60**	24
GA, 3.00 mil Thickness					
48mm	50m	Hand	Clear	**31HJ44**	6
48mm	50m	Hand	Clear	**31HJ43**	36
72mm	50m	Hand	Clear	**31HJ45**	24
IPG, 1.60 mil Thickness					
48mm	1000 yd.	Machine	Clear	**494D42**	6
IPG, 1.70 mil Thickness					
72mm	1000 yd.	Machine	Clear	**494D43**	4
IPG, 1.90 mil Thickness					
72mm	1000 yd.	Machine	Clear	**494D38**	4
IPG, 1.95 mil Thickness					
48mm	1000 yd.	Machine	Clear	**494D39**	6
IPG 7100, 1.85 mil Thickness					
48mm	100m	Hand	Clear	**23M238**	36
72mm	100m	Hand	Clear	**23M263**	24
IPG 7100, 1.95 mil Thickness					
48mm	914m	Machine	Clear	**23M239**	6
IPG 9100, 2.50 mil Thickness					
72mm	100m	Hand	Clear	**23M236**	24
48mm	914m	Machine	Clear	**23M226**	6
Scotch® 355, 3.40 mil Thickness					
48mm	50m	Hand	Tan	**24A671**	1
48mm	50m	Hand	Clear	**15F752**	1
Scotch® 371, 1.90 mil Thickness					
48mm	100m	Hand	Clear	**54EN22**	36
48mm	914m	Machine	Clear	**19N729**	6
48mm	1500m	Machine	Clear	**16L025**	6
72mm	1500m	Machine	Clear	**2DEB6**	4
Scotch® 372, 2.20 mil Thickness					
72mm	914m	Machine	Clear	**19N728**	4
Scotch® 373, 2.50 mil Thickness					
48mm	50m	Hand	Clear	**15F814**	1
48mm	50m	Hand	Tan	**15F815**	1
48mm	50m	Hand	Red	**24A633**	1
48mm	50m	Hand	Blue	**24A635**	1
48mm	50m	Hand	Orange	**24A708**	1
48mm	50m	Hand	Yellow	**24A715**	1
48mm	50m	Hand	Green	**24A750**	1
48mm	100m	Hand	Clear	**15F756**	1
48mm	914m	Machine	Clear	**19N734**	6
72mm	50m	Hand	Clear	**15F750**	1
72mm	50m	Hand	Tan	**15F751**	1
72mm	100m	Hand	Clear	**15F763**	1
Scotch® 375, 3.10 mil Thickness					
48mm	50m	Hand	Tan	**15F812**	1
48mm	50m	Hand	Clear	**24A626**	1
48mm	914m	Machine	Clear	**19N730**	6
72mm	50m	Hand	Clear	**15F811**	1
72mm	50m	Hand	Tan	**15F813**	1
72mm	914m	Machine	Clear	**2DEE4**	4



No. 31HJ53



No. 31HJ57

GA GRAINGER APPROVED | ipg intertape polymer group | Scotch | 3M

Acrylic Adhesive Carton Sealing Tape

- 3" dia. core

Clear and scannable for use with bar-coded labels. Ages well and will not yellow over time. Good initial adhesion, but takes 24 to 48 hr. to cure and achieve max. bond strength.

For a complete list of standards for Acrylic Adhesive Carton Sealing Tape, go to Grainger.com® and enter "Item No.", and scroll down to "Standards" attribute.

Width	Length	Tape Application	Tape Color	Item No.	Pkg. Qty.
GA, 1.80 mil Thickness					
48mm	50m	Hand	Clear	**31HJ46**	36
48mm	100m	Hand	Clear	**31HJ47**	36
72mm	100m	Hand	Clear	**31HJ50**	24
GA, 2.00 mil Thickness					
48mm	50m	Hand	Clear	**31HJ51**	36
48mm	100m	Hand	Clear	**31HJ52**	36
48mm	100m	Hand	Tan	**31HJ53**	36
72mm	100m	Hand	Clear	**31HJ55**	24
GA, 2.60 mil Thickness					
48mm	50m	Hand	Clear	**31HJ57**	36
48mm	100m	Hand	Clear	**31HJ58**	36
IPG 400, 2.10 mil Thickness					
48mm	100m	Hand	Clear	**23M243**	36
48mm	914m	Machine	Clear	**23M233**	6
72mm	100m	Hand	Clear	**23M244**	24
Scotch® 313, 2.55 mil Thickness					
48mm	100m	Hand	Clear	**6PCN6**	36
72mm	100m	Hand	Clear	**6PCN5**	24
3M 311+, 2.00 mil Thickness					
48mm	914m	Machine	Clear	**52WT51**	6
3M 311+, 2.10 mil Thickness					
48mm	100m	Hand	Clear	**53JU13**	36
72mm	100m	Hand	Clear	**53JV01**	24



Scotch No. 29WR67



No. 29WR73

Hot Melt Adhesive Corrugate Box Sealing Tape

Securely sticks to a variety of different substrates including recycled corrugate and fiberboard. The adhesive creates a strong bond to hold flaps tight. Easily apply rolls by hand, with a manual dispenser, or case sealer.

Width	Length	Color	Adhesion Strength	Item No.	Pkg. Qty.
Scotch® 3071, 2.10 mil Thickness					
48mm	100m	Clear	45 oz./in.	**29WR67**	36
72mm	100m	Clear	45 oz./in.	**29WR68**	24
Scotch® 3073, 2.60 mil Thickness					
48mm	100m	Clear	45 oz./in.	**29WR71**	36
48mm	100m	Clear	45 oz./in.	**29WR73**	1
72mm	100m	Clear	45 oz./in.	**29WR72**	24
72mm	100m	Clear	45 oz./in.	**29WR74**	1



Electric
No. 6BY99



Manual
No. 6CA10

Water-Activated Tape Machines

- 1-pc. metal chassis
- Stainless steel guillotine-style cutter
- 70-oz. water bottle
- Hold 1000-ft. rolls from 1" to 3"W

Measure, moisten, and cut paper or reinforced gummed tape.

ELECTRIC

- UL Listed 60950; CE Certified; CSA Certified C22.2; ANSI Rated
- 110/120V, 50/60 Hz
- Dispenses 36" per sec.

MARSH®
Marsh Shipping Supply Co., LLC

Keypad with LED display has 20 preset lengths, 2 repeat keys, and a cast urethane feed wheel. High-RPM motor with brake.

MANUAL

Dispense up to 36" length with 1 pull; longer with "double pull" feature. No. 6CA11 features a heater to improve adhesion.

Description	H	W	L	Mfr. Model	Item No.
Electric	12"	9½"	18"	TDE110	**6BY99**
Manual	13½"	9"	18"	TDH	**6CA10**
Manual with Heater	13½"	9"	18"	TDH110	**6CA11**

CENTRAL brand

Water-Activated Carton Sealing Tape

Tamper-evident, secure band tape works well in dusty and dirty environments. For all weather use.



No.
23M285

KRAFT PAPER

Designed for fast, permanent adhesion with superior strength. Cracking of the adhesive surface provides tape with excellent flexibility for sealing carton corners, edges, and irregular surfaces. Ideal for lightweight or standard-sized cartons shipped in unitized or full pallets.

FIBERGLASS-REINFORCED KRAFT PAPER

Provide consistent performance in carton sealing applications where durability, strength, and reliability are required. Extra-strong fiberglass yarns are bonded between high-tensile strength sheets for extra strength.

W	L	Color	Tensile Strength	Item No.	Pkg. Qty.
Kraft Paper					
2½"	600 ft.	Natural	45 lb./in.	**23M281**	12
Fiberglass-Reinforced Kraft Paper					
3"	375 ft.	Natural	74 lb./in.	**23M285**	8
3"	375 ft.	Natural	80 lb./in.	**23M292**	8
3"	375 ft.	Natural	83 lb./in.	**23M295**	8
3"	400 ft.	Natural	92 lb./in.	**23M286**	10
3"	450 ft.	White	70 lb./in.	**23M297**	10
3"	450 ft.	Natural	70 lb./in.	**23M284**	10
3"	450 ft.	Natural	80 lb./in.	**23M293**	10
3"	450 ft.	White	83 lb./in.	**23M288**	10
3"	450 ft.	Natural	83 lb./in.	**23M296**	10
76mm	137m	Natural	74 lb./in.	**23M294**	10
2¾"	137m	Natural	66 lb./in.	**23M290**	10
2¾"	137m	Natural	74 lb./in.	**23M291**	10



Electric
No. 1UXP4



Electric
No. 3TJJ1



Manual
No. 1UXP9



Manual
No. 1UXP7

BETTER PACKAGES, Inc.

Water-Activated Tape Machines

ELECTRIC

- UL Listed; meets CE, CSA, C-UL standards
- 115V, 60Hz

No. 3TJH9

- Dispenses 45" per sec.
- 44-oz. water bottle

14 preset lengths dispense from 6" to 45" of reinforced or nonreinforced tapes up to 3"W. Random key allows custom length up to 120". Features safety interlock switch.

Nos. 1UXP4 and 1UXP5

- Dispense 45" per sec.
- 64-oz. water bottle

Hold up to 1000 ft. of 1½" to 3"W tape. Feature color-coded keypad with 14 preset lengths. Larger motor and urethane feed wheel enhance efficiency. Self-oiling blade provides consistent cutting. No. 1UXP5 comes with a feature that automatically advances the next length of tape. Tape Aerial Accessory No. 1UXP6 delivers and holds a straight length of moistened tape.

No. 3TJJ1

- 64-oz. water bottle

Holds reinforced or nonreinforced tapes up to 4"W. Features thermal cutoff and color-coded keypad with 20 preset lengths. Dispenses 6" to 100" lengths of tape. Random key allows for continuous uninterrupted tape dispensing.

MANUAL

No. 1UXP9

Holds up to 600 ft. of 1" to 3"W reinforced and nonreinforced paper tape. Easy to operate and excellent for low-volume carton sealing.

No. 3TJJ2

Holds 500-ft. of gum-side out nonreinforced tape from 1" to 1½"W. Dispenses tape in lengths from 1" to 8".

Nos. 1UXP7 and 1UXP8

- 44-oz. water bottle

Hold up to 600 ft. of 1½" to 3"W tape. Dispense up to 30" with 1 pull. Urethane feedwheel and guillotine shear blades provide consistent cutting. No. 1UXP8 features a top heater to enhance water-activated tape adhesion.

L	W	H	Mfr. Model	Item No.	REPLACEMENT BRUSH Item No.	REPLACEMENT WATER BOTTLE Item No.	TAPE AERIAL ACCESSORY Item No.
Electric							
18"	12"	10½"	BP500	**3TJH9**	**3TJJ4**	**3TJJ3**	—
20"	12½"	12"	BP555es	**1UXP4**	**1UXR2**	—	**1UXP6**
20"	12½"	12"	BP555eSA	**1UXP5**	**1UXR2**	—	**1UXP6**
21"	10½"	9½"	BP755eS	**3TJJ1**	**3TJJ7**	**3TJJ6**	—
Manual							
14"	6"	6"	P3S	**1UXP9**	**1UXR6**	—	—
14½"	6"	6"	TS404	**3TJJ2**	**3TJJ5**	—	—
21"	10½"	9½"	BP333Plus	**1UXP7**	**1UXR4**	**1UXR5**	—
21"	10½"	9½"	BP333PLWHT	**1UXP8**	**1UXR4**	**1UXR5**	—

GA GRAINGER APPROVED ★ WESTWARD®

Carton Staples

Staples are interchangeable with other brands, such as CCC, Bostitch®, Kihlberg®, International Staple and Machine, Container Corp., JK, and Salco. Adhesive collation.

Crown	Leg Length	Staple Type	Stick Quantity	Coil Quantity	For Use With	Brand	Item No.	Pkg. Qty.
Copperized Metal Carton Staples								
1¼"	5/8"	Coil	—	1000	Bostitch Staplers	GA	**4PMF2**	24000
	5/8"	Coil	—	1000	Westward® and CCC Staplers	Westward	**3A530**	24000
	5/8"	Stick	50	—	Westward® and CCC Staplers	Westward	**3A528**	25000
	3/4"	Coil	—	1000	Bostitch Staplers	GA	**4PMF3**	24000
	3/4"	Coil	—	1000	Westward® and CCC Staplers	Westward	**4PMF1**	24000
	3/4"	Stick	50	—	Westward® and CCC Staplers	Westward	**4PME6**	25000
1⅜"	5/8"	Stick	50	—	Bostitch Staplers	GA	**4PME8**	25000
	5/8"	Stick	50	—	Westward® and CCC Staplers	Westward	**3A529**	25000
	3/4"	Stick	50	—	Bostitch Staplers	GA	**4PME9**	25000
	3/4"	Stick	50	—	Westward® and CCC Staplers	Westward	**4PME7**	25000
Galvanized Metal Carton Staples								
3/8"	1/4"	Stick	50	—	GA Staplers	GA	**4PMF6**	100000
7/16"	5/16"	Stick	50	—	GA Staplers	GA	**4PMF8**	100000
	3/8"	Stick	50	—	GA Staplers	GA	**4PMF9**	100000
	1/2"	Stick	50	—	GA Staplers	GA	**4PMG1**	100000
1/2"	1/4"	Stick	50	—	GA Staplers	GA	**4PMG4**	100000
	1/4"	Stick	100	—	GA Staplers	GA	**4PMG2**	100000
	3/8"	Stick	50	—	Westward® and Bostitch Staplers	Westward	**4PMG6**	25000
	1/2"	Stick	50	—	Westward® and Bostitch Staplers	Westward	**4PMG7**	25000
	5/8"	Stick	50	—	Westward® and Bostitch Staplers	Westward	**4PMG8**	25000

Style	Jaw Material	Jaw Finish	Handle Material	L	W	H	Brand	Item No.
Staple Remover								
Lever	Steel	Nickel Plated	Aluminum	5½"	¾"	5"	GA	**4PMD6**


No. 3A530


No. 3A528


No. 4PMF6


No. 4PMD6


No. 4CXW9


No. 33VC41


No. 33RJ67

Packaging Tables

PRO-LINE

Complete Pack Benches include a full lower shelf with 4 dividers, full-width storage shelf with 4" of clearance, bin holder, 6 outlet power supply, spool holder, enclosed metal shelf with 4 dividers, corrugated shelf with 4 dividers, uprights, and a shop light.

Packing Tables include powder-coated painted steel frame, uprights, paper spool holder, adjustable upper steel shelf with dividers, corrugated shelf with dividers, 120V 15A power supply, shop light, and 6" leg extenders with leveling feet.

Optional Scale Stands Nos. 33VC36 and 33VC35 are height adjustable with included 6" leg extensions.

Optional Cardboard Storage Stand No. 33VC37 keeps boxes clean and off the floor. 24" W x 36" with 5 steel dividers.

BENCHPRO

All sets include 6" height-adjustable with leveling glide feature, powder painted steel structure, roll holder, bin box rail, 8 outlets, 16A power strip, and top and lower bin shelves with steel dividers. Premium Packaging Bench Sets feature a 1,000-lb. weight capacity and 13-ga. steel frame. Heavy-Duty Packaging Bench Sets feature a 6600-lb. weight capacity and stainless steel trim.

Description	W	D	Brand	Item No.
Complete Packing Tables				
White Laminate Top	60"	30"	Pro-Line	**4CXW9**
White Laminate Top	72"	30"	Pro-Line	**4CXX6**
ESD White Laminate Top	60"	30"	Pro-Line	**4CXX2**
ESD White Laminate Top	72"	30"	Pro-Line	**4CXX8**
Maple Top	60"	30"	Pro-Line	**4CXX4**
Maple Top	72"	30"	Pro-Line	**4CXY1**
Packing Tables				
Particle Board Top	60"	30"	Pro-Line	**33VC38**
Particle Board Top	72"	30"	Pro-Line	**33VC42**
Plastic Laminate Top	60"	30"	Pro-Line	**33VC39**
Plastic Laminate Top	72"	30"	Pro-Line	**33VC43**

Description	W	D	Brand	Item No.
ESD Laminate Top	60"	30"	Pro-Line	**33VC40**
ESD Laminate Top	72"	30"	Pro-Line	**33VC44**
Solid Maple Top	60"	30"	Pro-Line	**33VC41**
Solid Maple Top	72"	30"	Pro-Line	**33VC45**
Balance Tables				
Plastic Laminate Top	24"	24"	Pro-Line	**33VC36**
Plastic Laminate Top	30"	30"	Pro-Line	**33VC35**
Cardboard Storage Stand				
Steel	—	—	Pro-Line	**33VC37**
Premium Packaging Bench Sets				
White Laminate Top	60"	30"	BenchPro	**33RJ67**
White Laminate Top	72"	30"	BenchPro	**33RJ68**

Description	W	D	Brand	Item No.
White Laminate Top	72"	36"	BenchPro	**33RJ69**
Maple Top	60"	30"	BenchPro	**33RJ70**
Maple Top	72"	30"	BenchPro	**33RJ71**
Maple Top	72"	36"	BenchPro	**33RJ72**
Heavy-Duty Packaging Bench Sets				
White Laminate Top	60"	30"	BenchPro	**33RJ73**
White Laminate Top	72"	30"	BenchPro	**33RJ74**
White Laminate Top	72"	36"	BenchPro	**33RJ75**
Heavy-Duty Packing Bench Sets				
Maple Top	60"	30"	BenchPro	**33RJ76**
Maple Top	72"	30"	BenchPro	**33RJ77**
Maple Top	72"	36"	BenchPro	**33RJ78**



UPS Guidlines	Fiber Box Handbook	Box Type
30-lb.	65-lb.	32 ECT Single Wall
40-lb.	65-lb.	200# Single Wall
50-lb.	95-lb.	44 ECT Single Wall
60-lb.	100-lb.	48 ECT Double Wall
80-lb.	120-lb.	51 ECT Double Wall
—	160-lb.	71 ECT Double Wall
—	280-lb.	90 ECT Triple Wall

What strength do you need?

Using the chart (at left), find the weight of your shipment to see the box strength that you'll need to support it. You may need to follow a particular set of guidelines depending on your carrier. Both the UPS and Fiber Box Handbook recommendations are represented in the chart.

There are two tests of box strength to consider:

ECT (Edge Crush Test) measures the stacking strength of the box. The greater the number, the greater the amount of force required to crush the box during stacking.

200# is a rating given to boxes that have received The Mullen Test for bursting strength. These boxes provide greater overall stacking strength than ECT boxes.

Single Wall, also known as double face boxes, have walls constructed of a corrugated medium glued between two sheets of linerboard.

Double Wall boxes can be used to ship rough-edged items. The walls are constructed of two corrugated mediums glued between three sheets of linerboard.

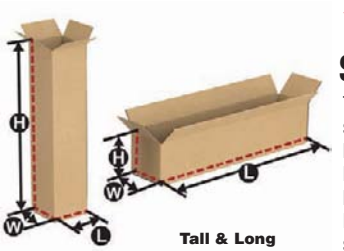
Triple Wall boxes can be used to ship heavy, sharp-edged metal parts. They have walls constructed of three corrugated mediums glued between four sheets of linerboard.



Cube



Flat



Tall & Long

GA GRAINGER APPROVED

Standard Shipping Boxes

These boxes are made of corrugated cardboard for storing and shipping products. Box strengths vary, but 200# and 32 ECT are common strength ratings. Boxes labeled 200# provide more protection against bursting and are stronger for stacking than boxes labeled 32 ECT. Heavy-duty boxes include 44 ECT single-wall and 48 ECT double-wall boxes.

Inside L x W x H	Box Description	Wall Type	Item No.
6" to 8" Length			
6 x 4 x 4"	32 ECT	Single Wall	**11K584**
6 x 6 x 4"	32 ECT	Single Wall	**11K587**
6 x 6 x 6"	32 ECT - Cube	Single Wall	**11K589**
6 x 6 x 6"	48 ECT - Cube, Heavy Duty	Double Wall	**55VM15**
8 x 6 x 6"	32 ECT	Single Wall	**11K606**
8 x 8 x 4"	32 ECT - Flat	Single Wall	**11K609**
8 x 8 x 8"	32 ECT - Cube	Single Wall	**11K613**
10" Length			
10 x 8 x 6"	32 ECT	Single Wall	**11R186**
10 x 10 x 10"	32 ECT - Cube	Single Wall	**11A675**
10 x 10 x 10"	48 ECT - Cube, Heavy Duty	Double Wall	**22XL98**
10 x 10 x 10"	200# - Cube	Single Wall	**55NM31**
10 x 10 x 24"	32 ECT - Tall	Single Wall	**11A679**
10 x 10 x 48"	32 ECT - Tall	Single Wall	**11A683**
12" to 13" Length			
12 x 10 x 6"	200#	Single Wall	**55NM38**
12 x 10 x 8"	32 ECT	Single Wall	**11R327**
12 x 10 x 8"	200#	Single Wall	**55NM39**
12 x 12 x 6"	200# - Flat	Single Wall	**55NM41**
12 x 12 x 8"	200#	Single Wall	**55NM42**
12 x 12 x 12"	32 ECT - Cube	Single Wall	**11A689**
12 x 12 x 12"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM10**
12 x 12 x 12"	200# - Cube	Single Wall	**55NM44**
12 x 12 x 60"	32 ECT - Tall	Single Wall	**11A701**
12 x 12 x 72"	32 ECT - Tall	Single Wall	**11A702**
13 x 11 x 5"	32 ECT	Single Wall	**11R344**
14" to 16" Length			
14 x 8 x 4"	32 ECT - Flat	Single Wall	**22XK34**
14 x 10 x 6"	200#	Single Wall	**55NM49**
14 x 10 x 10"	32 ECT	Single Wall	**11A707**
14 x 10 x 10"	200#	Single Wall	**55NM50**
14 x 14 x 14"	32 ECT - Cube	Single Wall	**11A713**
14 x 14 x 14"	200# - Cube	Single Wall	**55NM57**
15 x 10 x 4"	32 ECT - Flat	Single Wall	**22XK66**
16 x 12 x 8"	200#	Single Wall	**55NM63**
16 x 12 x 10"	32 ECT	Single Wall	**11A737**
16 x 12 x 12"	32 ECT	Single Wall	**11A738**
16 x 12 x 12"	200#	Single Wall	**55NM65**
16 x 16 x 8"	200#	Single Wall	**55NM68**
16 x 16 x 16"	32 ECT - Cube	Single Wall	**11A747**
16 x 16 x 16"	200# - Cube	Single Wall	**55NM71**
17" to 18" Length			
17 x 12 x 12"	32 ECT	Single Wall	**11A754**
17 x 13 x 5"	32 ECT	Single Wall	**11R402**
17 x 17 x 12"	32 ECT	Single Wall	**11A757**
18 x 12 x 6"	32 ECT - Printer	Single Wall	**11R410**
18 x 12 x 6"	200# - Printer	Single Wall	**55NM75**
18 x 12 x 10"	32 ECT - Printer	Single Wall	**11A761**
18 x 12 x 12"	32 ECT - Printer	Single Wall	**11A762**
18 x 12 x 12"	200# - Printer	Single Wall	**55NM78**
18 x 14 x 12"	32 ECT	Single Wall	**11A767**
18 x 14 x 12"	48 ECT - Heavy Duty	Double Wall	**22XM33**
18 x 14 x 12"	200#	Single Wall	**55NM82**
18 x 14 x 14"	32 ECT	Single Wall	**11A768**
18 x 16 x 16"	32 ECT	Single Wall	**11A772**
18 x 18 x 12"	200#	Single Wall	**55NM86**
18 x 18 x 16"	32 ECT	Single Wall	**11A776**
18 x 18 x 18"	32 ECT - Cube	Single Wall	**11A777**
18 x 18 x 18"	200# - Cube	Single Wall	**55NM88**
18 x 18 x 24"	32 ECT	Single Wall	**493T73**
20" to 22" Length			
20 x 14 x 12"	32 ECT	Single Wall	**11A791**
20 x 16 x 14"	32 ECT	Single Wall	**11A799**
20 x 16 x 14"	200#	Single Wall	**55NM97**
20 x 20 x 12"	200#	Single Wall	**55NN03**
20 x 20 x 16"	48 ECT - Heavy Duty	Double Wall	**22XM48**
20 x 20 x 20"	32 ECT - Cube	Single Wall	**493T86**
20 x 20 x 20"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM49**
20 x 20 x 20"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM50**
20 x 20 x 20"	200# - Cube	Single Wall	**55NN04**
22 x 18 x 16"	48 ECT - Heavy Duty	Double Wall	**55VM37**
22 x 22 x 22"	44 ECT - Heavy Duty	Single Wall	**22XM53**
24" to 26" Length			
24 x 10 x 4"	32 ECT - Long	Single Wall	**11A625**
24 x 10 x 6"	32 ECT - Long	Single Wall	**11A626**
24 x 10 x 8"	32 ECT - Long	Single Wall	**11A627**
24 x 12 x 12"	32 ECT - Long	Single Wall	**493T97**
24 x 12 x 12"	48 ECT - Heavy Duty, Long	Double Wall	**22XM56**
24 x 12 x 12"	200# - Long	Single Wall	**55NN12**
24 x 16 x 12"	32 ECT	Single Wall	**493U02**
24 x 16 x 12"	200#	Single Wall	**55NN16**
24 x 16 x 24"	32 ECT	Single Wall	**493U05**
24 x 18 x 12"	44 ECT - Heavy Duty	Single Wall	**22XM58**
24 x 18 x 12"	200#	Single Wall	**55NN19**
24 x 18 x 18"	32 ECT	Single Wall	**493U11**
24 x 18 x 18"	200#	Single Wall	**55NN20**
24 x 24 x 12"	44 ECT - Heavy Duty	Single Wall	**22XM64**
24 x 24 x 24"	32 ECT - Cube	Single Wall	**493U23**
24 x 24 x 24"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM67**
24 x 24 x 24"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM69**
24 x 24 x 24"	200# - Cube	Single Wall	**55NN23**
26 x 15 x 7"	32 ECT - Flat	Single Wall	**11A650**
30" to 36" Length			
30 x 20 x 20"	32 ECT	Single Wall	**493U48**
30 x 30 x 30"	200# - Cube	Single Wall	**55NN27**
36 x 24 x 12"	32 ECT	Single Wall	**493U51**
36 x 24 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM78**
36 x 36 x 36"	32 ECT - Cube	Single Wall	**11G188**
36 x 36 x 36"	200# - Cube	Single Wall	**55NN30**
48" Length			
48 x 40 x 36"	32 ECT	Single Wall	**11G193**



Multi-Height

GA GRAINGER APPROVED

Multi-Height Standard Shipping Boxes

Create multiple heights out of one box. These boxes reduce the need for void-fill packaging and save space in warehouses.

Inside L x W x H (adjustable height)	Board Test	Wall Type	Item No.
6" to 8" Length			
6 x 6 x 6-4"	32 ECT	Single Wall	**3AFT1**
8 x 8 x 8-4"	32 ECT	Single Wall	**55VG30**
8½ x 8½ x 12-8"	32 ECT	Single Wall	**49K015**
12" Length			
12 x 9 x 2-6"	200#	Single Wall	**55NM36**
12 x 12 x 8-4"	32 ECT	Single Wall	**5GMK7**
12 x 12 x 12-6"	32 ECT	Single Wall	**3AFT9**
20" to 22" Length			
20 x 12 x 12-6"	32 ECT	Single Wall	**493U74**
22 x 22 x 22-16"	32 ECT	Single Wall	**493U76**
24" Length			
24 x 16 x 12-6"	32 ECT	Single Wall	**493U78**
24 x 18 x 12-6"	32 ECT	Single Wall	**493U79**
24 x 18 x 18-14"	32 ECT	Double Wall	**1PJW2**
24 x 24 x 24-12"	32 ECT	Single Wall	**493U81**
30" to 36" Length			
30 x 17 x 16-10"	32 ECT	Single Wall	**493U84**
35 x 22 x 22-18"	—	Double Wall	**1PJV9**
36 x 36 x 36-30"	—	Double Wall	**5GMT0**



Gaylord Container



Lids

GA GRAINGER APPROVED

Gaylord Containers and Lids

Containers—These large boxes have outside measurements of 48"L x 40"W and varying heights that fit on a pallet. They hold and organize bulk loads and transfer large shipments between locations. They are commonly used to collect recycling, trash, or debris at a facility. Half Slotted Container (HSC) closure style boxes have bottom flaps that meet at the center of the box; however, there is no cover or flap on top. These boxes are for applications where boxes require frequent loading and unloading. Typically, a lid is required to close the box. Regular Slotted Container (RSC) have top flaps that meet at the center of the box when folded and are usually closed using tape or staples.

Lids—Cover and close Gaylord containers while protecting the contents from dirt and dust during transport or storage. These lids make Gaylord containers stackable within warehouses or storage facilities. They can be reused as covers or flipped upside down and used as a tray to store and organize items in a warehouse or facility.

Inside L x W x H	Board Test	Wall Type	Closure Style	Wall Thickness	Item No.
Gaylord Containers					
48 x 40 x 24"	90 ECT	Triple Wall	HSC	½''	**55VJ71**
48 x 40 x 36"	51 ECT	Double Wall	HSC	9/32"	**55VJ73**
48 x 40 x 36"	51 ECT	Double Wall	RSC	9/32"	**55VJ72**
48 x 40 x 36"	90 ECT	Triple Wall	HSC	½''	**55VJ75**
48 x 40 x 36"	90 ECT	Triple Wall	RSC	½''	**55VJ74**
48 x 40 x 48"	90 ECT	Triple Wall	HSC	½''	**55VJ76**
Gaylord Lids					
36¾ x 36¾ x 5"	48 ECT	Double Wall	—	¼"	**55VJ80**
40¾ x 30¾ x 5"	48 ECT	Double Wall	—	¼"	**55VJ81**
40¾ x 40¾ x 5"	48 ECT	Double Wall	—	¼"	**55VJ82**
48¾ x 24¾ x 5"	48 ECT	Double Wall	—	¼"	**55VJ83**
48¾ x 48¾ x 5"	48 ECT	Double Wall	—	¼"	**55VJ85**
49¼ x 41¼ x 5"	44 ECT	Single Wall	—	3/16"	**55VJ84**



GA GRAINGER APPROVED

Standard-Duty Corrugated Pads

These single-wall corrugated pads are sheets of 32 ECT cardboard for layering between items on a pallet. Corrugated pads separate products in a stack, protecting them from damage or slippage. They can be used to protect the floor from pallet base damage.

W	L	Thickness	Item No.	Pkg. Qty.
30"	30"	1/8"	**5HZT6**	10
30"	30"	1/8"	**5HZT2**	25
30"	40"	11/64"	**36MZ49**	5
30"	48"	11/64"	**36MZ50**	5
30"	60"	11/64"	**36MZ51**	5
36"	48"	5/32"	**55VK04**	1
36"	72"	5/32"	**55VK05**	1
40"	48"	5/32"	**55VK08**	1
40"	60"	1/8"	**56EC39**	1
42"	42"	5/32"	**55VK09**	1
42"	48"	5/32"	**55VK10**	1
48"	60"	5/32"	**55VK12**	1
48"	72"	5/32"	**55VK13**	1
60"	60"	5/32"	**55VK14**	1
60"	96"	5/32"	**55VK15**	1
72"	72"	1/8"	**5HZT5**	10

GA GRAINGER APPROVED

Reinforced Literature Mailers

Triple-layer sidewalls and double-layer front panels prevent the package from tearing or bursting during transit. They are stronger than standard literature mailers and ideal for shipping fragile items wrapped in protective packaging material.

Inside L x W x H	Color	Board Test	Item No.
4⅜ x 4⅜ x 2"	White	200#	**52RT03**
4⅜ x 4⅜ x 3½"	White	200#	**52RT27**
7 x 5 x 3"	White	200#	**52RR67**
8 x 4 x 4"	White	200#	**52RR78**
18 x 12 x 4"	White	200#	**52RT15**



No. 52RT03



No. 1PJZ3



No. 4NZE1



No. 1PKA2

GA GRAINGER APPROVED

Printed Moving Boxes and Kit

Printed Moving Boxes—Large enough to hold household items and small enough to be handled by movers and stacked in a truck or container for transport. They are preprinted with labels that allow movers to write in identifying information.

Kit—Includes a combination of products for packing and moving household items. Boxes have labeled areas for writing in contents or other identifying information. Protective packaging material wraps fragile items to protect them from damage during transport such as cracks or chips. Tape seals a packed box, and markers label boxes with contents. Moving kit includes:

(5) boxes: 16" x 12-½" x 12-½"; (4) boxes: 18" x 18" x 16";
(2) boxes: 24" x 18" x 18"; (1) tall box: 26" x 6" x 36-½"

(2) rolls of tape: 2" x 55 yds.; (2) rolls of bubble wrap: 16" x 9";
and (1) black marker.

Inside L x W x H	Board Test	Wall Type	Item No.
Printed Moving Boxes			
16 x 12½ x 12½"	200#	Single Wall	**1PJZ3**
18 x 18 x 16"	200#	Single Wall	**1PJZ4**
24 x 18 x 18"	200#	Single Wall	**1PJZ5**
24 x 18 x 24"	200#	Single Wall	**1PJZ6**

Inside L x W x H	Board Test	Wall Type	Item No.
Printed Moving Box Kit			
26 x 5¾ x 37"	200#	Single Wall	**1PKA2**

Includes	Item No.
Snap-Off Knife/Marker Pack	
Permanent, Waterproof, Non-Toxic Black Marker	**4NZE1**



No. 22EP43

DANGEROUS GOODS

PolarTech Industries

Paint Can Shipping Kits

- Berlin brand items are UN Rated
- Polar Tech brand items are UN/USA D.O.T. Approved containers

These preassembled boxes are for shipping containers of paint, primers, or floor coatings. They are labeled with codes that identify the contents, and they are printed with arrows that help handlers keep the boxes in an upright position during transit.

Inside L x W x H	UN Rating Solid	Holds Number of Containers/ Container Size	Board Test	Brand	Item No.
5 x 5 x 6"	4G/Y2.3/S	(1) 1 qt. Paint Can	275#	Berlin	**22EP43**
5⅜ x 5⅜ x 6⅜"	4G/Y1.8/S	(1) 1 qt. Can	275#	Polar Tech	**12F315**
5⅜ x 5⅜ x 6⅜"	4G/Y1.8/S	(1) 1 qt. Can	275#	Polar Tech	**40TE38**
8⅜ x 5⅞ x 12⅜"	4G/Y6.7/S	(1) 1 gal. Can	275#	Polar Tech	**12F321**
8⅜ x 5⅞ x 12⅜"	4G/Y6.7/S	(1) 1 gal. Can	275#	Polar Tech	**40TE35**
8½ x 8½ x 9¼"	4G/Y7.8/S	(1) 1 gal. Can	275#	Berlin	**22EP44**
8⅝ x 8⅝ x 10⅛"	4G/Y1.8/S	(1) 1 gal. Can	275#	Polar Tech	**12F318**
8⅝ x 8⅝ x 10⅛"	4G/Y6.8/S	(1) 1 gal. Can	275#	Polar Tech	**40TE34**
10 x 10 x 6"	4G/Y9.3/S	(4) 1 qt. Cans	200#DW	Berlin	**22EP45**
10⅝ x 10⅝ x 6⅜"	4G/Y1.8/S	(4) 1 qt. Cans	275#	Polar Tech	**12F317**
10⅝ x 10⅝ x 6⅜"	4G/Y7/S	(4) 1 qt. Cans	275#	Polar Tech	**40TE31**
10¾ x 5⅜ x 6⅜"	4G/Y1.8/S	(2) 1 qt. Cans	275#	Polar Tech	**12F316**
11⅝ x 8⅜ x 12⅜"	4G/Y6.7/S	(2) 1 gal. Cans	275#	Polar Tech	**12F322**
16½ x 11½ x 12⅜"	4G/Y26.5/S	(4) 1 gal. Cans	275#	Polar Tech	**40TE37**
17 x 17 x 9¼"	4G/Y35.3/S	(4) 1 gal. Cans	275#	Berlin	**22EP46**
17⅛ x 8⅝ x 10⅛"	4G/Y1.8/S	(2) 1 gal. Cans	275#	Polar Tech	**12F319**
17⅛ x 8⅝ x 10⅛"	4G/Y26.8/S	(2) 1 gal. Cans	275#	Polar Tech	**40TE28**
17⅛ x 17⅛ x 10⅛"	4G/Y1.8/S	(4) 1 gal. Cans	275#	Polar Tech	**12F320**
17⅝ x 17⅝ x 10⅛"	4G/Y26.8/S	(4) 1 gal. Cans	275#	Polar Tech	**40TE25**

Gel Pack No. 12F366



Freezer Pack No. 4YRJ3



PolarTech Industries

Cold Packs

- Reusable

Gel—These packs are flexible when not frozen and contain refrigerant gel that stays colder longer than ice. They help maintain a consistent temperature inside boxes or pallets of perishable products. Moisture safe packs have a nonwoven poly cloth that absorbs moisture.

Freezer—Rigid cold packs resist damage from punctures and can last for years. They contain a nontoxic gel that helps maintain a consistent temperature in coolers and ice chests to prevent perishable products from spoiling.

Cold Packs—These leakproof packs of refrigerant gel stay colder longer than ice. They help maintain a consistent temperature inside boxes or pallets of perishable products.

Cold Pack Styles	Weight	L	W	Item No.	Pkg. Qty.
Gel Packs					
Biodegradable	8 lb.	6¼"	6"	**12F377**	8
	9 lb.	6"	4"	**12F375**	18
	9 lb.	8"	6"	**12F378**	6
	10 lb.	6"	6"	**12F376**	12
	19 lb.	5½"	4"	**12F374**	48
Leak Proof	19 lb.	5½"	4"	**6TVL2**	48
	19 lb.	10"	6"	**6TVL3**	9
Moisture Safe	8 lb.	6"	4"	**12F367**	18
	8 lb.	6¼"	6"	**12F369**	8
	8 lb.	8"	8"	**12F371**	4
	9 lb.	6"	6"	**12F368**	12
	9 lb.	8"	6"	**12F370**	6
	9 lb.	10¼"	8"	**12F373**	3
	19 lb.	5½"	4"	**12F366**	48
	19 lb.	10"	6"	**12F372**	9

Weight	L	W	Item No.	Pkg. Qty.
Freezer Packs				
8 lb.	8"	8"	**4YRJ7**	4
9 lb.	6"	4"	**4YRJ3**	18
9 lb.	6"	6"	**4YRJ4**	12
9 lb.	6¼"	6"	**4YRJ5**	8
9 lb.	8"	6"	**4YRJ6**	6
9 lb.	10¼"	8"	**4YRJ8**	3
Cold Packs				
5 lb.	9"	4"	**4YRK2**	3
6 lb.	4"	2¼"	**4YRJ9**	12
6 lb.	4½"	4"	**4YRK1**	6



Insulated Foam Shipping Container No. 12F276



Insulated Box & Foam Shipping Kit No. 12F337

PolarTech Industries

Insulated Shipping Kits

Box and Foam Kits—Preassembled kits include a shipping box with a lidded foam insert for packaging and shipping food, beverage, and pharmaceutical products. The foam container holds the product and fits securely into the box. These kits help keep the package temperature constant and prevent damage to the products from excessive heat or cold.

Foam Containers—Lightweight boxes made of expanded polystyrene have a tight-fitting lid that closes the box opening with an insulated seal. These reusable containers resist leaks and keep food and medical supplies cold during transport.

Inside L x W x H	Insert Wall Thickness	Item No.	Pkg. Qty.
Insulated Foam Shipping Containers			
6 x 4½ x 3"	1.00"	**12F276**	1
6 x 4½ x 5¼"	1.00"	**12F275**	1
6 x 5 x 6½"	1.25"	**12F333**	2
10 x 10 x 4¼"	0.75"	**12T969**	3
10½ x 8¼ x 9¼"	1.50"	**12F334**	3
12 x 10 x 15"	1.50"	**12F335**	2

Inside L x W x H	Insert Wall Thickness	Item No.	Pkg. Qty.
Insulated Box and Foam Shipping Kits			
6 x 4½ x 5¼"	1.00"	**12F380**	2
6 x 5 x 4½"	1.25"	**12F381**	2
6 x 5 x 6½"	1.25"	**12F382**	2
7 x 6 x 5½"	0.75"	**12T966**	2
8 x 6 x 9"	1.50"	**12F337**	4
9½ x 7½ x 5½"	0.75"	**12T967**	3
9½ x 7½ x 10½"	0.75"	**12T968**	2
10⅜ x 10⅜ x 7¼"	1.25"	**12F401**	4
10⅜ x 10⅜ x 11"	1.25"	**12F402**	2
10½ x 8¼ x 9¼""	1.50"	**12F386**	2
10½ x 10½ x 8"	0.75"	**12T970**	2
10⅝ x 6½ x 3½"	0.75"	**12F413**	4
10⅝ x 6½ x 5"	0.75"	**12F414**	4
12 x 10 x 7"	1.50"	**12F338**	2
12 x 10 x 9"	1.50"	**12F339**	2
12 x 10 x 15"	1.50"	**12F387**	1
12 x 12 x 11½"	2.00"	**12F340**	1
12⅜ x 10½ x 10⅜"	2.00"	**12F388**	1
12¾ x 12¾ x 12½"	1.25"	**12F405**	1
13 x 13 x 12½"	1.50"	**12F341**	1
13⅜ x 11⅜ x 11⅞"	1.25"	**12F389**	1
14 x 8 x 10"	0.75"	**12T973**	1
14½ x 14½ x 13"	1.25"	**12F417**	1
14½ x 14½ x 14"	0.75"	**12T974**	1
15 x 13 x 13"	0.75"	**12T975**	1
16 x 9 x 13"	3.00"	**12F391**	1
17 x 10 x 12⅜"	1.50"	**12F392**	1
17 x 17 x 9"	1.50"	**12F343**	1
18 x 14 x 19"	1.25"	**12F344**	1
18¾ x 18¾ x 17"	0.75"	**12T980**	1
19 x 12 x 12½"	1.50"	**12F345**	1
19 x 12 x 16"	1.50"	**12F394**	1
21¼ x 15½ x 15½"	2.00"	**12F347**	1
22⅞ x 16⅞ x 16⅞"	1.25"	**12T983**	1
23 x 14 x 23"	2.50"	**12F395**	1
25 x 16½ x 12"	1.50"	**12F397**	1
30¼ x 14½ x 16"	1.50"	**12F398**	1

SONOCO THERMOSAFE

Insulated Plastic Shipping Containers

Reusable boxes or totes secure food products for transport. These hard plastic containers help maintain a constant temperature inside the package and protect the contents against damage from excessive heat or cold. They are more durable and maintain temperature longer than corrugated boxes and foam containers.

Inside Dim. L	W	H	Insert Wall Thickness	Insert Material	Item No.
15"	14"	15¼"	2.00"	Urethane Foam	**420M29**
22"	12"	26"	2.50"	Urethane	**420M05**
22⅞"	13½"	21"	2.00"	Urethane Foam	**420M27**
37"	41"	29"	3.00"	Urethane	**420M10**
37"	41"	31"	3.00"	Urethane	**420M11**
54"	41"	68½"	3.00"	Urethane	**420M13**



No. 420M05



Stencil Roller
No. 29WN99



Stencil Roller
Replacement Head
No. 5A143



Stencil Brush
No. 5A134



Stencil Roller
Handle
No. 29WP01



Foam Roller
Handle
No. 32UR96



Replacement
Fountain Brush Tip
No. 5A142

MARSH
Marsh Shipping Supply Co., LLC

Stencil Rollers

These rollers are used to apply roll-on inks to shipping stencils and transfer a message from the stencil to a shipping container or product.

Stencil Rollers—Shipping stencil rollers come with replaceable handle and head.

Stencil Brush—A valve dispenses compatible Rolmark and K-1 ink into hog hair brush bristles. The protective cover prevents drying when not in use.

Foam Roller Handle—Economical stenciling system uses Rolmark ink on porous and nonporous surfaces for occasional stenciling.

Replacement Fountain Brush Tip—Replacement tip with hog hair bristles is for stencil fountain brush No. 5A134.

Overall Length	Handle Length	Replacement Head Material	Replacement Head Diameter	Handle Material	Mfr. Model	Item No.
Stencil Rollers						
2½"	—	Neoprene	2"	—	70150	**6YLT5**
3 7/64"	—	Neoprene	2"	—	RM10-30F	**29WN99**
3½"	—	Neoprene	2"	—	70300	**6YLT6**
4¼"	—	Neoprene	2"	—	33575	**4HY28**
8½"	5"	Neoprene	2"	Aluminum	RFR200-30	**5A131**
8½"	5"	Neoprene	2"	Aluminum	FR100-30	**5A135**
Stencil Roller Handle						
6"	4"	Neoprene	2"	Plastic	RM15-30	**29WP01**
Stencil Roller Replacement Head						
3 7/64"	—	Neoprene	2"	—	30866	**5A143**
Stencil Brush						
8 13/64"	5"	Hog Hair Brush	2"	Aluminum	30322	**5A134**

For Use With	Mfr. Model	Item No.
Foam Roller Handle 3", for Rolmark Ink		
RM50	RM20-30	**32UR96**
Foam Pad for Rolmark Ink 5" x 7"		
RM20-30	RM-50	**32UR93**
Replacement Fountain Brush Tip, Includes Polypropylene Cap		
Mfr.No. 30322	30142	**5A142**



No.
48UH53

MSSC

Stencil Hand Coder

Lightweight coder prints high-resolution characters, logos, and QR codes. It is compact for use at multiple angles. Requires (4) AA batteries, not included.

Printhead	Print Type	Font Size	Max. Lines of Print	Item No.
Hand Coder				
Thermal Inkjet	True Type	Up to 0.5"	6	**48UH53**

Market Indicator Cartridge No.	Printer Brand	Ink/Toner Color	Item No.
Ink Cartridges			
90900	DailyJet	Black	**48UH54**
90925	DailyJet	Black	**48UH55**



No.
36XE28



No.
1F151

MARSH
Marsh Shipping Supply Co., LLC

Sprayon

AERVOE®



No. 4HY29

Stencil Ink

Shipping stencil inks are applied to shipping stencils to transfer the message from the stencil to a shipping container or product.

Spray Cans—Aerosol cans are used to spray ink onto a shipping stencil. This is a faster way to apply ink than rolling it on.

Roller Inks—Water-resistant ink is rolled onto a shipping stencil with a compatible ink roller.

Roller Ink Cartridges—These cartridges screw into express roller No. 4HY28 sold on this page.

Color	Stencil Ink Container Type	Container Size	Resistance Properties	Brand	Mfr. Model	Item No.	Pkg. Qty.
Stencil Ink Spray Cans							
Black	Aerosol Can	11 oz.	Water Resistant	Marsh	30395	**5XT13**	1
Dark Blue	Aerosol Can	12 oz.	Waterproof, Weather Resistant	Sprayon	S03109000	**1HGE2**	1
Orange	Aerosol Can	12 oz.	Waterproof	Aervoe	2805	**36XE31**	1
Red	Aerosol Can	12 oz.	Waterproof	Aervoe	2801	**36XE28**	1
Tan	Aerosol Can	12 oz.	Waterproof, Weather Resistant	Sprayon	SC3119000	**6KDU1**	1
White	Aerosol Can	11 oz.	Water Resistant	Marsh	30400	**5XT14**	1
White	Aerosol Can	12 oz.	Waterproof	Aervoe	2807	**36XE33**	1
Yellow	Aerosol Can	12 oz.	Waterproof	Aervoe	2802	**36XE29**	1
Stencil Roller Inks							
Black	Jug	1 qt.	Water Resistant	Marsh	20903	**5A132**	1
Black	Jug	1 qt.	Water Resistant	Marsh	K-BK-Q	**5A136**	1
Black	Bottle	1 qt.	Water Resistant	Marsh	70903	**6YLT8**	1
Clear	Jug	1 qt.	Water Resistant	Marsh	RMS-Q	**5A133**	1
Red	Jug	1 qt.	Water Resistant	Marsh	20909	**1F152**	1
White	Jug	1 qt.	Water Resistant	Marsh	20923	**1F151**	1
Yellow	Jug	1 qt.	Water Resistant	Marsh	20926	**1F153**	1
Stencil Roller Ink Cartridges							
Black	Bottle	4 oz.	Water Resistant	Marsh	70987	**6YLT7**	1
Black	Bottle	4 oz.	Water Resistant	Marsh	33564	**4HY29**	8
White	Bottle	4 oz.	Water Resistant	Marsh	33565	**4HY30**	8

MARSH
Marsh Shipping Supply Co., LLC

Stencil Cutting Machines and Oil Boards

Stencil Cutting Machines—Punch out letters and numbers on oil boards to create custom stencils for marking shipping containers with messages, warnings, and handling instructions. Compatible with individual shipping stencil oil boards. Not compatible with shipping stencil oil board rolls.

Stencil Oil Boards—Individual rectangular sheets of material are used with cutting machines to create custom stencils. After the machine punches the message into the board, ink is applied to paint the message onto a container or product. Boards are made from materials that resist ink bleedthrough, which helps ensure crisp, readable messages. They can be used on flat or curved surfaces.



No. 4W224
w/Oil Board
(Sold Separately)

Character Size	Characters per Foot	Lines per Board	Item No.
Stencil Cutting Machines			
½"	24	6	**48RD15**
¾"	16	4	**1F150**
1"	13	4	**4W224**

Color	Overall Width	Overall Length	Thickness	Item No.
Stencil Oil Boards				
Brown	6"	20"	0.015"	**52KE45**
	6"	24"	0.015"	**52KE44**
	6½"	24"	0.015"	**52KE47**
	7"	20"	0.015"	**52KE46**
Yellow	6"	20"	0.015"	**48RD17**
	6½"	24"	0.015"	**52JH80**
	7"	20"	0.015"	**52JH81**
	7"	24"	0.015"	**48RD16**



No. 29PH40



No. 29PH41



No. 29PH38

GA GRAINGER APPROVED Scotch 3M

General-Purpose Pre-Printed Packing List Envelopes

A message on the front of the envelope identifies the contents within. Adhesive-backed plastic pouches are stuck to the outside of a package to hold shipping documents.They ensure invoices, packing lists, and safety data sheets are visible and reduce the risk of them getting damaged, lost, or thrown out. Use on boxes, cartons, mailers, tubes, and large envelopes.

Message	Outside H	Outside L	Color	Message Location	Brand	Item No.	Pkg. Qty.
Side Loading							
Invoice Enclosed	4½"	5½"	Orange	Centered	GA	**29PH40**	250
	4½"	6"	Red	Top	GA	**29PH41**	250
	5½"	10"	Orange	Top	GA	**29PH42**	250
Packing List/Invoice Enclosed	4½"	5½"	Orange	Top	GA	**29PH30**	250
	4½"	5½"	Orange	Centered	GA	**29PH29**	250
Packing List Enclosed	4½"	5½"	Orange	Top	GA	**29PH32**	250
	4½"	5½"	Orange	Centered	GA	**29PH33**	250
	4½"	6"	Red	Top	GA	**29PH31**	250
	4½"	6"	Orange	Centered	GA	**29PH36**	250
	5"	6"	Clear	Top, Bottom	Scotch	**5A146**	1000
	5½"	10"	Orange	Top	GA	**29PH37**	250
	7"	5½"	Green	Top	GA	**39UK94**	1000
Top Loading							
Documents Enclosed	5"	6"	Clear	Centered	Scotch	**2A668**	500
	6"	10"	Clear	Centered	Scotch	**3KT65**	1000
Documents Enclosed/ Documentos Adjuntos	5"	6"	Clear	Centered	Scotch	**53JV04**	12
	6"	8"	Clear	Centered	3M	**53JV06**	8
	6"	10"	Clear	Centered	3M	**53JV03**	4
Invoice Enclosed	5½"	7"	Orange	Top	GA	**29PH39**	250
Material Safety Data Enclosed	5½"	7"	Orange	Centered	GA	**29PH38**	250
Packing List Enclosed	5½"	7"	Orange	Top	GA	**29PH34**	250
	5½"	7"	Orange	Centered	GA	**29PH35**	250


No. 29PH47


No. 19NY33

GA GRAINGER APPROVED

Blank Packing List Envelopes

These envelopes have an adhesive backing and can be stuck to the outside of a package to hold shipping documents.This reduces the risk of the documents getting damaged, lost, or thrown out. Use on boxes, cartons, mailers, tubes, and large envelopes.

Outside H	Outside L	Color	Item No.	Pkg. Qty.
Side Loading				
4"	8"	Clear	**29PH47**	250
4⅜"	9"	Clear	**29PH46**	250
4½"	5½"	Clear	**29PH44**	250
4½"	6"	Clear	**29PH43**	250
5½"	7"	Clear	**29PH45**	250
5½"	10"	Clear	**29PH52**	250
5½"	10"	Clear	**2JFH3**	1000
6¾"	10¾"	Red	**29PH51**	250
7"	10"	Clear	**29PH53**	250
8½"	11½"	Clear	**29PH50**	250
9½"	12"	Clear	**29PH49**	250
9½"	12½"	Clear	**29PH48**	250
Top Loading				
9½"	9½"	White	**19NY34**	25
13"	13"	White	**19NY33**	25

Scotch

Pouch Tape Dispensers

Pull/Cut Dispenser secures to a table or wall the for easy dispensing of pouch tape. 3" core. Tape Dispenser has adjustable feature that allows use of tape pouches and protection labels in lengths from 5" up to 12". Can be table top mounted or used as a portable dispenser for versatility.


No. 2A672


No. 53JV08

For Use With	Max. Tape Width	H	L	Item No.
Pull/Cut Mountable Tape Dispenser				
Self Adhesive Tapes	5"	—	—	**2A672**
Tape Dispenser				
Pouch and Label Protection Tape	6"	8½"	14¼"	**53JV08**

GA GRAINGER APPROVED

Inspection Tags

- Pkg. of 1000

These paper tags inform employees when equipment has been inspected and is in safe condition to operate. They improve equipment tracking and management. All tags include a 12" wire and fiber-reinforced patch to prevent ripping.


No. 1HAA9



No. 1HAB5

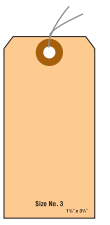
Legend	Color	Item No.
Inspection Tags, 4¾"H x 2⅜"W		
Accepted	Green	**1HAA9**
Inspected	Yellow	**1HAB4**
Rejected	Red	**1HAB2**
Repairable	Yellow	**1HAB1**
Scrap	Red	**1HAB3**
Inspection Tags, 6¼"H x 3⅛"W		
Caution	Yellow	**1HAB5**
Danger	White	**1HAB8**
Danger/Do Not Operate	White	**1HAB9**
Inspection Log	White	**1HAC3**
Inspection Record	White	**1HAC1**
Maintenance Log	Yellow	**1HAC2**
Notice	White	**1HAB7**
Warning	White	**1HAB6**

GA GRAINGER APPROVED

Blank Shipping Tags

- Pkg. of 1000

Paper tags can be attached to products that a label will not fit on, such as brooms. There is space for users to write or print information such as shipping addresses, product IDs, inventory tallies, and instructional messages like "hold for inspection" or "priority shipment." All tags include a 12" wire and fiber-reinforced patch to prevent ripping.


No. 1GYN7


No. 1GZL7

Tag Number	Tag Height	Tag Width	Card Stock Gauge	Item No.
Manila				
#2	3¼"	1⅝"	13 Points	**1GYN6**
#3	3¾"	1⅞"	13 Points	**1GYN7**
#5	4¾"	2⅜"	13 Points	**1GYN9**
#6	5¼"	2⅝"	13 Points	**1GYR1**
#7	5¾"	2⅞"	13 Points	**1GYR2**
#8	6¼"	3⅛"	13 Points	**4X886**
White				
#1	5¼"	2⅝"	13 Points	**1HAA7**
#2	3¼"	1⅝"	13 Points	**1HAC6**
#8	6¼"	3⅛"	13 Points	**1HAA8**

Tag Color	Card Stock Gauge	Item No.
Colored		
Tag #1, 2 ¾ inH x 1 ⅜ inW		
Blue	13 Points	**4WKY6**
Fluorescent Green		**4WLA4**
Fluorescent Pink		**4WLA8**
Fluorescent Red		**4WKZ5**
Fluorescent Yellow		**4WKZ9**
Green		**4WKX7**
Orange		**4WKZ1**
White		**4WKY2**
Tag #2, 3 ¼ inH x 1 ⅝ inW		
Blue	13 Points	**1GYX3**
Fluorescent Green		**1GZL7**
Fluorescent Red		**1GYY9**
Fluorescent Yellow		**1GYZ8**
Green		**1GYU5**
Orange		**1GYY2**
Red		**1GYR3**
Yellow		**1GYT2**
Tag #3, 3 ¾ inH x 1 ⅞ inW		
Blue	13 Points	**4WKY7**
Fluorescent Green		**4WLA5**
Fluorescent Pink		**4WLA9**
Fluorescent Red		**4WKZ6**
Fluorescent Yellow		**4WLA1**
Green		**4WKX8**
Tag Color	**Card Stock Gauge**	**Item No.**
Tag #4, 4 ¼ inH x 2 ⅛ inW		
Blue	13 Points	**1GYX5**
Fluorescent Green		**1GZL8**
Fluorescent Pink		**1HAA3**
Fluorescent Red		**1GYZ2**
Fluorescent Yellow		**1GZL1**
Green		**1GYU7**
Orange		**1GYY3**
Red		**1GYR5**
White	—	**1HAA6**
Yellow	13 Points	**1GYT5**
Tag #5, 4 ¾ inH x 2 ⅜ inW		
Fluorescent Green	13 Points	**4WLA6**
Fluorescent Pink		**4WLC1**
Fluorescent Yellow		**4WLA2**
Green		**4WKX9**
Orange		**4WKZ3**
Red		**4WKX1**
White		**4WKY4**
Yellow		**4WKX5**
Tag #6, 2 ¾ inH x 1 ⅜ inW		
White	30 Points	**4WLC3**
Tag #6, 5 ¼ inH x 2 ⅝ inW		
Blue	13 Points	**1GYX7**
Fluorescent Green		**1GZL9**
Fluorescent Pink		**1HAA4**
Fluorescent Red		**1GYZ4**
Fluorescent Yellow		**1GZL3**
Green		**1GYU9**
Orange		**1GYY5**
Red		**1GYR7**
White		**1GYV8**
Yellow		**1GYT8**
Tag #8, 6 ¼ inH x 3 ⅛ inW		
Blue	13 Points	**1GYX9**
Fluorescent Green		**1HAA1**
Fluorescent Pink		**1HAA5**
Fluorescent Red		**1GYZ6**
Fluorescent Yellow		**1GZL5**
Green		**1GYV2**
Orange		**1GYY7**
Red		**1GYR9**
White		**1GYX1**
Yellow		**1GYU2**

GA GRAINGER APPROVED

Inventory Control Labels

- Roll of 1000
- 3" core

Pressure-sensitive paper labels identify the status of supplies for storing, routing, and tracking. Labels with legend are 2" x 2" dia.


No. F8572



No. D6074



No. D6075

H	W	Shape	▶CHOOSE: Color	Item No.
Legend - Blank				
3"	2"	Rectangle	Green, Orange, Pink, Red, Yellow	**F8572**
3"	4"	Rectangle		**F8571**
1"	1"	Circle		**F8588**

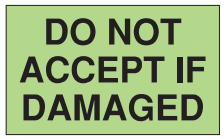
Legend	▶CHOOSE: Color	Item No.
With Legend		
Counted	Green, Orange, Pink, Yellow	**D6074**
Inspected	Green, Orange, Pink, Red, Yellow	**D6075**
Rejected		**D6076**
Return to Stock		**D6077**
Use First		**D6073**

Instructional Handling Labels

GA GRAINGER APPROVED

Communicate information on how to handle shipments, how to open shipments, what's inside shipments, and where the shipments are coming from. Labels are applied to boxes, mailers, crates, drums, etc. For more instructional handling labels, see Grainger.com®

Message	Label Width	Label Height	Background Color*	Material†	Labels per Roll 50 Item No.	Labels per Roll 500 Item No.
Shipping Arrows						
Arrow (Image Only)						
Arrows (This Side Up)	4"	6"	W	P	—	3WRX7
Up Arrow	3"	4"	W	P, AB	16V040	16U849
Arrows with Message						
This End Up	2"	3"	W	P, AB	16V033	16U862
This End Up	4"	8"	W	P, AB	16V034	16U861
Arrow with Multiple Messages						
This End Up, Comply w/Spec.	4"	8"	W	P, AB	16V036	16U860
Care Instruction						
Do Not						
Do Not Accept, Is Damaged	5"	3"	G	P, AB	16U961	16U885
Do Not Break Down Skid	5"	3"	R	P, AB	16U962	16U805
Do Not Drop	3"	2"	W	P, AB	16U964	16U873
Do Not Forklift	5"	3"	R	P, AB	16U966	16U833
Do Not Freeze	3"	4"	W	P, AB	16U967	16U808
Do Not Ship	5"	3"	G	P, AB	16U968	16U884
Do Not Stack	3"	4"	R	P	—	3WRZ1
Do Not Stack	3"	4"	W	P, AB	16U969	16U850
Do Not Stack	3"	4"	W	P	—	3WRX9
Do Not Use Blades To Open	3"	4"	W	P, AB	16U974	16U857
Hold, Do Not Ship	5"	3"	G	P, AB	16V001	16U883
Refrigerate Do Not Freeze	3"	4"	W	P, AB	16V030	16U853
Fragile						
Delicate Instruments, Fragile	5"	3"	W	P, AB	16U960	16U870
Fragile	3"	4"	R	P	—	3WRZ5
Fragile, 4 Square	4"	4"	W	P, AB	—	16U881
Fragile, Broken Glass	3"	4"	W	P, AB	16U993	16U790
Fragile, Electronic Equipment	5"	3"	Y	P, AB	16U983	16U792
Fragile, Liquid	3"	2"	W	P, AB	16U986	16U879
Fragile, Liquid	5"	3"	W	P, AB	16U987	16U878
Fragile, Thank You	3"	2"	W	P, AB	16U988	16U907
Fragile, Thank You	5"	3"	W	P, AB	16U989	16U863
Fragile, This Side Up	3"	2"	W	P, AB	16U991	16U869
Fragile, This Side Up	5"	3"	W	P, AB	16U990	—
Fragile 'This Side UP'	3"	1 5/64"	W	PP, AB	—	52RW32
Keep Dry, Fragile, Up	3"	4"	W	P, AB	16V006	16U859
Handle with Care						
Delicate Instr., Handle With Care	3"	2"	W	P, AB	16U956	16U877
Fragile, Handle With Care	3"	2"	W	P, AB	16U984	16U866
Glass, Handle With Care	3"	2"	W	P, AB	16U995	16U864
Glass, Handle With Care	5"	3"	W	P, AB	16U996	16U865
Handle With Care	3"	4"	W	P, AB	16U997	16U791
This Side Up	3 1/4"	1 1/8"	R	P	—	8UR35
This Side Up	5"	3"	W	P, AB	—	16U789
Inspection						
Skid__Of__	5"	3"	G	P, AB	16V031	—
Opening Instructions						
Open This End	5"	3"	Y	P, AB	16V018	16U832



No. 16U961



No. 16U960

Message	Label Width	Label Height	Background Color*	Material†	Labels per Roll 50 Item No.	Labels per Roll 500 Item No.
Special Instruction						
Electronic Material, Don't Drop	3"	2"	W	P, AB	16U976	16U875
Heavy	8"	2"	Y	P, AB	—	16U811
No Top Freight	5"	3"	Y	P, AB	16V017	16U899
Perishable	3"	4"	W	P, AB	—	16U851
Time Sensitive						
Rush	3"	3"	R	P	—	9WD25
Shipping Contents						
Climate						
Keep Away from Heat	3½"	5"	W	P	—	33W825
Keep Frozen	3"	4"	R	P	—	3WRZ3
Keep Frozen	3"	4"	W	P	—	3WRY4
Protect From Heat	3"	4"	W	P, AB	—	16U856
Protect From Heat	3"	4"	W	P	—	3WRX5
Enclosed Documents						
Instructions Enclosed	5"	3"	Y	P, AB	16V004	—
Packing List Enclosed	5"	3"	R	P, AB	16V022	16U831
Interior Components						
Delicate Instruments	3"	2"	R	P, AB	16U958	16U788
Glass	4"	4"	W	P, AB	—	16U880
Mixed Carton	3"	2"	G	P, AB	16V009	16U888
Mixed Merch., Check Contents	5"	3"	R	P, AB	16V011	16U891
Mixed Pallet	5"	3"	Y	P, AB	16V012	16U886
Partial Case	5"	3"	G	P, AB	16V024	16U901
Small Parts Enclosed	5"	3"	G	P, AB	16V032	16U797
Time Sensitive						
Perishable	3"	4"	W	P	—	3WRY2
Receiving						
Inspection						
Attention____	8"	3"	O	P, AB	16U950	16U803
Box__Of__	5"	3"	R	P, AB	16U951	16U794
Inspected By___	5"	3"	R	P, AB	16V003	16U802
Must Ship Today	5"	3"	R	P, AB	16V016	16U806
Ready to Ship	5"	3"	Y	P, AB	16V029	16U902
Skid__Of__	5"	3"	G	P, AB	—	16U795
Country of Origin						
USA						
Made in USA	1"	1"	W	P, AB	16V008	16U804

Message	Label Width	Label Height	Background Color*	Material†	Labels per Roll 1000 Item No.
Waste					
ORM-D					
Consumer Commodity, ORM-D	2½"	1½"	B	P, AB	16U819
Consumer Commodity, ORM-D-AIR	2½"	1½"	B	P, AB	16U818

W=White. G=Green. R=Red. Y=Yellow. B=Blue. O-Orange. †P = Paper. PP = Polypropylene. P, AB = Paper, Adhesive Back. PP, AB = Polypropylene, Adhesive Back.

GA GRAINGER APPROVED

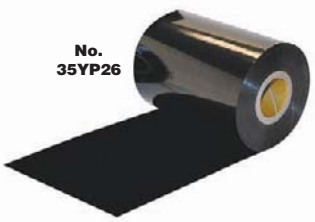
Thermal Transfer Labels

Blank paper labels require a ribbon to produce crisp images that will last longer than direct thermal label images. An adhesive backing allows the labels to stick to shipping containers. A thermal barcode label printer is used to customize the labels with print addresses, barcodes, and company logos. **Thermal transfer label rolls** save time because they contain more labels than a fanfold. **Fanfold labels** consist of multiple labels that are folded into a stack. **Colored labels** can be used for color-coding shipments, shipping locations, and products.



No. 35YP17

Label Width	Label Height	Label Color	Core Dia.	Label Material	Labels per Roll	Rolls per Case	Item No.
Thermal Transfer Label Rolls-Ribbon Required							
3"	5"	White	3"	Thermal Transfer Paper	1200	8	22D090
4"	2"	White	3"	Direct Thermal Paper	3000	4	22D104
4"	2"	White	3"	Thermal Transfer Paper	3000	4	22D091
4"	3"	White	3"	Direct Thermal Paper	2000	4	22D105
4"	3"	White	3"	Thermal Transfer Paper	2000	4	22D092
4"	4"	White	3"	Thermal Transfer Paper	1500	4	22D093
4"	6"	White	1"	Direct Thermal Paper	250	16	22D109
4"	6"	White	3"	Direct Thermal Paper	1000	4	22D107
Fanfold Thermal Transfer Labels - Ribbon Required							
4"	2"	White	—	Thermal Transfer Paper	5000	2	22D097
4"	6"	White	—	Thermal Transfer Paper	2500	2	22D101
Colored Thermal Transfer Label Rolls-Ribbon Required							
4"	6"	Green	3"	—	1000	4	35YP21
4"	6"	Orange	3"	—	1000	4	35YP18
4"	6"	Yellow	3"	—	1000	4	35YP17



No. 35YP26

GA GRAINGER APPROVED

Thermal Transfer Ribbons

Use with thermal barcode label printers to print information on thermal transfer labels. The ribbons contain ink that is absorbed into the label material to form a crisp image during printing. **Wax ribbons** create smudge-resistant images. They are suitable for labels that will be used in indoor environments. **Wax/Resin** and **Resin ribbons** resist smudges and scratches and can be used in indoor and outdoor environments. Wax/Resin ribbons may be exposed to light or moderate abrasion. Resin ribbons may be exposed to heat, heavy abrasion, greases, oils, and harsh chemicals.

Compatible Printer Brand	Ribbon Width	Ribbon Length	Color	Core Dia.	Rolls per Case	Item No.
Wax Thermal Transfer Ribbons						
Intermec	4.09	508 ft.	Black	1"	6	35YP31
Intermec	4.09	1499 ft.	Black	1"	6	35YP32
Zebra	2.38	1476 ft.	Black	1"	6	35YP26
Zebra	4.03	1476 ft.	Black	1"	6	35YP28
Zebra	4.34	1476 ft.	Black	1"	6	35YP29
Zebra	5.98	1476 ft.	Black	1"	6	35YP30
Wax/Resin Thermal Transfer Ribbons						
Intermec	4.09	508 ft.	Black	1"	6	35YP38
Zebra	4.03	1476 ft.	Black	1"	6	35YP35
Zebra	4.34	1476 ft.	Black	1"	6	35YP36
Resin Thermal Transfer Ribbons						
Zebra	2.38	1476 ft.	Black	1"	6	35YP39
Zebra	3.16	1476 ft.	Black	1"	6	35YP40
Zebra	4.34	1476 ft.	Black	1"	6	35YP41







DYMO brother at your side AVERY

Direct Thermal Labels

Create custom labels with barcodes and other useful information. These blank paper labels do not require a ribbon, ink, or toner for printing. Adhesive backing sticks to surfaces such as packages, shipping containers, and warehouse or retail racks. A compatible thermal barcode label printer is used to print addresses, barcodes, company logos, etc., see page 1379. Images on direct thermal labels may fade over time, so they're not recommended for lifetime identification

Direct Thermal Label Rolls—Multiple labels are stored on a roll core. Label rolls reduce reloading time because they contain more labels than a fanfold.

Fanfold Direct Thermal Labels—Multiple labels are folded into a stack. Fanfold labels take up less space than label rolls. There are typically more labels in a fanfold stack than on a label roll, which reduces how often labels need to be loaded into the printer.

Colored Direct Thermal Label Rolls—These labels can be used for color-coding shipments, shipping locations, and products in a container. Multiple labels that are stored on a roll core. They can also be used to draw attention to shipping information.

Label Width	Label Height	Label Color	Core Dia.	Labels per Roll	Rolls per Case	Brand	Item No.
Direct Thermal Label Rolls							
Printer Compatibility Desk Top Label Printer							
9/16"	3 1/16"	White	1"	260	1	Dymo	**2XZN5**
3/4"	2"	White	1"	500	10	Dymo	**1ZTB9**
1"	2 1/8"	White	1"	500	1	Dymo	**2XZN6**
1 1/8"	3 1/2"	White	1"	260	1	Dymo	**2XZN3**
1 1/8"	3 1/2"	White	1"	350	10	Dymo	**1ZTB7**
1 25/64"	3 1/2"	White	1"	260	1	Dymo	**2XZN4**
2 1/4"	4"	White	1"	250	1	Dymo	**2XZN8**
2 13/32"	1 7/64"	White	—	800	1	Brother	**13C564**
3 1/2"	1 7/64"	White	—	400	1	Brother	**13C558**
3 1/2"	1 13/32"	White	—	400	1	Brother	**13C563**
3 29/32"	2 13/32"	White	—	300	1	Brother	**13C559**
4"	2 1/8"	White	1"	220	1	Dymo	**23M345**
4"	2 5/16"	White	1"	250	1	Dymo	**23M347**
4"	2 5/16"	White	1"	300	10	Dymo	**1ZTB8**
6"	4"	White	1"	220	1	Dymo	**23M346**
6"	4"	White	—	200	1	Brother	**13C569**
7 1/2"	2 1/4"	White	1"	150	10	Dymo	**1ZTC3**
Printer Compatibility Industrial Label Printer							
2"	1"	White	3"	3000	4	Avery	**49VT59**
3"	2"	White	3"	1000	4	Avery	**49VT60**
4"	2"	White	3"	1000	2	Avery	**49VT61**
4"	3"	White	3"	1000	2	Avery	**49VT62**
6"	4"	White	3"	1000	1	Avery	**49VT58**
Fanfold Direct Thermal Labels							
Printer Compatibility Industrial Label Printer							
6"	4"	White	—	2000	—	Avery	**49VT57**
Colored Direct Thermal Label Rolls							
Printer Compatibility Desk Top Label Printer							
1 1/8"	3 1/2"	Clear	1"	130	1	Dymo	**23M344**



GA GRAINGER APPROVED

Self-Seal Bubble and Padded Mailers

- For more mailer envelopes, see Grainger.com

Kraft exterior has either bubble lining or glued-in macerated lining to absorb shock. Self-seal closure provides tamper evidence and product security. Kraft color.

W	L	Industry No.	Item No.	Pkg. Qty.
Bubble Lining				
4"	8"	000	**36DZ22**	500
5"	10"	00	**36DY92**	250
6"	10"	0	**36DY91**	250
6"	10"	0	**36DZ05**	25
7 1/4"	12"	1	**36DY94**	100
7 1/4"	12"	1	**39UL27**	25
8 1/2"	12"	2	**36DY95**	100
8 1/2"	12"	2	**36DZ08**	25
8 1/2"	14 1/2"	3	**36DZ18**	100
9 1/2"	14 1/2"	4	**36DY98**	100
9 1/2"	14 1/2"	4	**39UL29**	25
10 1/2"	16"	5	**36DY93**	100
10 1/2"	16"	5	**36DY97**	25
12 1/2"	19"	6	**36DZ02**	50
14 1/4"	20"	7	**39UK92**	50
Recycled Macerated Padding				
6"	10"	0	**4TU94**	250
8 1/2"	12"	2	**4TU96**	100
9 1/2"	14 1/2"	4	**4TU97**	100
10 1/2"	16"	5	**4TU98**	100
12"	7 1/4"	1	**5KMW4**	100
14 1/2"	8 1/2"	3	**5KMW5**	100
14 1/2"	20"	7	**4TU99**	50
19"	12 1/2"	6	**5KMW6**	50

GA GRAINGER APPROVED

Poly Mailers

- For expansion mailers, see Grainger.com®

White polyethylene exterior is stronger and lighter than a kraft mailer. Tamper-evident hot melt self-seal closure. Water-resistant. Bubble mailers are 100% recyclable. Mailers with silver inner lining provide document confidentiality.





W	L	Industry No.	Item No.	Pkg. Qty.
Bubble Lining				
4"	8"	000	**39UL18**	500
6 1/2"	10"	0	**36DY90**	250
6 1/2"	10"	0	**36DZ10**	25
8 1/2"	12"	2	**36DZ06**	25
8 1/2"	12"	2	**36DZ20**	100
9 1/2"	14 1/2"	4	**39UK66**	100
10 1/2"	16"	5	**36DZ19**	25
10 1/2"	16"	5	**36DY99**	100
12 1/2"	19"	6	**36DZ23**	50
14 1/4"	20"	7	**36DZ07**	50

W	L	Industry No.	Item No.	Pkg. Qty.
Silver Inner Lining				
6"	9"	—	**36DZ01**	1000
9"	12"	—	**36DY89**	500
10"	13"	—	**36DZ13**	500
12"	15 1/2"	—	**36DZ04**	500
14 1/2"	19"	—	**36DZ09**	250
19"	24"	—	**36DZ21**	125
24"	24"	—	**36DZ11**	125
No Lining				
13"	16"	—	**39UL13**	100
20"	20"	—	**39UK68**	100







GA GRAINGER APPROVED

Heat Poly Bag Sealers

Seal parts in plastic bags for shipping, distribution, or storage. Bag sealers use pressure and heat to close poly bags with a watertight, airtight seal. They crimp the top of a bag and apply heat that melts a strip of the bag to close it.

Foot-Operated—These sealers help with floor sealing jobs.

Hand-Operated—Spot crimp sealing for flat and gusseted poly bags or poly tubing.

Clamp-Style Hand-Held—Create a consistent seal on flat and gusseted poly bags or poly tubing.

Repair Kits—Kits include heating element, lower PTFE tape, and upper PTFE fabric.

Seal Length	Seal Width	Max. Seal Thickness	Overall Height	Overall Length	Item No.	REPAIR KITS Item No.
Foot-Operated Bag Sealers						
18"	3/32"	7 mil	29 1/2"	17"	**4LT32**	**5ZZ45**
24"	3/32"	7 mil	29 1/2"	17"	**5ZZ47**	**5ZZ48**
Hand-Operated Bag Sealers						
8"	1/16"	6 mil	21"	31"	**4LT36**	**5ZZ56**
8"	1/16"	6 mil	24"	37"	**2LED9**	**2LEE6**
12"	1/16"	6 mil	8 5/8"	18 1/8"	**4LT28**	**5ZZ38**
12"	1/16"	6 mil	11"	19"	**5ZZ35**	**2VAE2**
16"	1/16"	7 mil	27"	55"	**5ZZ40**	**5ZZ42**
20"	1/16"	7 mil	30"	67"	**2LED7**	**2LEE4**
20"	3/32"	7 mil	36"	68"	**2LEE2**	**2LEE8**
24"	3/32"	7 mil	13"	32"	**2LED8**	**2LEE5**
Clamp Style Hand Held Bag Sealers						
1/2"	1/2"	—	8"	20"	**3ZKV8**	—
6"	9/16"	—	3 15/16"	7 3/32"	**13F532**	—
12"	9/16"	—	8"	20"	**13F534**	—



Bags are Packaged in a Flat Pack



GA GRAINGER APPROVED

Flat, Open-End Poly Bags

Polyethylene bags meet USDA and FDA requirements for food applications. For heat impulse sealers, see page 1406.

LLDPE Poly Bags—Linear low-density bags have extra strength that can allow a lighter-gauge bag to replace a heavier-gauge LDPE bag.

LDPE Poly Bags—Low-density bags can be heat sealed, stapled, taped, or closed with a bag tie.

W	L	Item No.	Pkg. Qty.
Linear Low Density Poly (LLDPE)			
1 mil			
8"	8"	**5DRJ1**	1000
8"	10"	**5DRJ2**	1000
9"	15"	**8RNN6**	1000
10"	12"	**8YFW1**	1000
10"	18"	**5DRK8**	1000
12"	12"	**5DRL5**	1000
12"	13"	**5DRL6**	1000
18"	24"	**9MD47**	1000
22"	36"	**5DRT0**	500
1.2 mil			
32"	50"	**5DRU3**	250
Low Density Poly (LDPE)			
0.9 mil			
4"	4"	**5DRE8**	5000
1 mil			
10"	16"	**5DFV6**	1000
15"	18"	**5DFV8**	1000
1.5 mil			
2"	3"	**5DFX7**	10000
3½"	6"	**5DFZ2**	5000
4"	8"	**5DFZ6**	3000
5"	7"	**5DGA4**	2000
7"	10"	**5DGD1**	1000
7"	12"	**5DGD2**	1000
8"	10"	**5DGD7**	1000
9"	12"	**5DGE4**	1000
10"	12"	**5DGF0**	1000
11"	12"	**5DGF7**	1000
11"	15"	**5DGF8**	1000
12"	13"	**5DGG1**	1000
12"	20"	**5DGG5**	1000
20"	20"	**5DGK0**	1000
20"	30"	**5DGK2**	500
24"	30"	**5DGK9**	500
30"	30"	**5DGL6**	250

W	L	Item No.	Pkg. Qty.
2 mil			
3"	4"	**5DGP6**	5000
3"	5"	**5DGP7**	5000
4"	8"	**5DGR6**	2000
5"	7"	**5DGT5**	2000
5"	10"	**5DGT7**	2000
5"	15"	**5DGT9**	1000
6"	9"	**5DGU4**	1000
6"	10"	**5DGU5**	1000
6"	12"	**5DGU6**	1000
6"	15"	**5DGU7**	1000
7"	9"	**5DGV1**	1000
7"	12"	**5DGV3**	1000
8"	8"	**5DGV8**	1000
8"	12"	**5DGW0**	1000
8"	15"	**5DGW1**	1000
8"	18"	**5DGW2**	1000
10"	10"	**5DGW9**	1000
10"	12"	**5DGX0**	1000
10"	16"	**5DGX2**	1000
10"	18"	**5DGX3**	1000
12"	12"	**5DGX7**	1000
12"	16"	**5DGX8**	1000
12"	18"	**5DGX9**	1000
12"	20"	**5DGY0**	1000
14"	16"	**5DGY4**	1000
14"	20"	**5DGY5**	1000
14"	24"	**5DGY6**	500
15"	24"	**5DGY7**	500
16"	18"	**5DGZ0**	500
16"	20"	**5DGZ1**	500
16"	24"	**5DGZ2**	500
18"	24"	**5DGZ6**	500
18"	36"	**5DGZ8**	250
20"	20"	**5DGZ9**	500
20"	24"	**5DHA0**	500
20"	30"	**5DHA1**	500
22"	24"	**5DHA3**	250
24"	24"	**5DHA5**	500

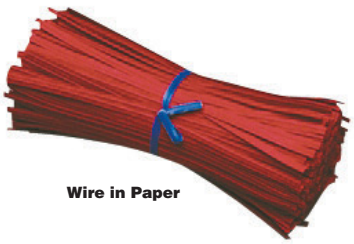
W	L	Item No.	Pkg. Qty.
24"	30"	**5DHA6**	500
24"	36"	**5DHA7**	250
24"	38"	**5DHA8**	250
28"	42"	**5DHC4**	250
32"	32"	**5DHD0**	250
38"	64"	**5DHD2**	100
44"	48"	**5DHD3**	100
3 mil			
4"	6"	**5DHF0**	2000
5"	8"	**5DHF8**	1000
6"	9"	**5DHG4**	1000
7"	10"	**5DHH0**	1000
8"	10"	**5DHH3**	1000
8"	12"	**5DHH4**	1000
9"	12"	**5DHH7**	1000
9"	15"	**5DHH8**	1000
10"	12"	**5DHJ0**	1000
12"	12"	**5DHJ2**	1000
14"	20"	**5DHJ7**	1000
16"	18"	**5DHJ9**	500
20"	30"	**5DHK2**	250
24"	30"	**5DHK3**	250
24"	36"	**5DHK4**	250
38"	64"	**5DHK6**	100
4 mil			
2"	3"	**5DHK8**	5000
3"	5"	**5DHL8**	2000
4"	4"	**5DHN4**	2000
4"	6"	**4DKX7**	2000
4"	8"	**5DHN6**	1000
5"	7"	**4DKX8**	1000
6"	8"	**4DKX9**	1000
6"	9"	**5DHR0**	1000
6"	10"	**5DHR1**	1000
6"	12"	**5DHR2**	1000
7"	9"	**5DHR6**	1000
8"	8"	**5DHT2**	1000
8"	10"	**4DKY1**	1000
9"	12"	**4DKY2**	1000

W	L	Item No.	Pkg. Qty.
10"	12"	**5DHU2**	1000
10"	16"	**5DHU3**	1000
10"	18"	**5DHU4**	500
12"	14"	**8AYW0**	1000
12"	18"	**4DKY3**	500
12"	24"	**5DHV3**	500
14"	20"	**5DHV6**	500
14"	24"	**5DHV7**	250
15"	24"	**9UAV1**	250
18"	20"	**5DHW8**	250
18"	24"	**5DHW9**	250
20"	24"	**5DHX3**	250
20"	30"	**5DHX4**	250
22"	30"	**5DHX8**	200
24"	24"	**9DKG8**	250
24"	30"	**8ZAD6**	200
24"	36"	**8AVL9**	200
24"	38"	**5DHY2**	100
24"	42"	**5DHY3**	200
24"	48"	**5DHY4**	100
28"	50"	**5DHY7**	100
30"	36"	**8AVM2**	100
36"	48"	**9M945**	100
36"	60"	**9HPX6**	50
38"	64"	**8UR15**	50
44"	54"	**9U950**	50
6 mil			
4"	6"	**5DRA8**	1000
8"	10"	**5DRC3**	1000
8"	12"	**9K462**	1000
9"	12"	**5DRC5**	1000
10"	12"	**5DRC6**	1000
12"	18"	**5DRC7**	500
18"	24"	**5DRC8**	250
20"	30"	**5DRC9**	200
24"	36"	**5DRD0**	100
30"	40"	**5DRD1**	100

GA GRAINGER APPROVED

Paper and Plastic Ties

- Bundles of 500



Wire in Paper

L	W	▶CHOOSE: Color	Pkg. Qty.	WIRE IN PAPER Item No.	WIRE IN PLASTIC Item No.
4"	¼"	Blue, Red, White	10000	**D6685**	**D6691**
5"	¼"	Blue, Red, White	10000	**D6686**	**D6692**
6"	⅛"	White	2000	**5ZW48**	—
6"	¼"	Blue, Red, White	10000	**D6687**	**D6693**
7"	¼"	Blue, Red, White	10000	**D6688**	**D6694**
8"	¼"	Blue, Red, White	10000	**D6689**	**D6695**

GA GRAINGER APPROVED

Header Pak™ Bags and Stand

Heat seal, staple, bag tie, or tape closed. LDPE bags come in packs of 100 stapled to a chipboard header.

W	L	Item No.	Pkg. Qty.
Bags			
1.5 mil			
3"	5"	**5CPH1**	5000
4"	6"	**5CPH2**	5000
6"	8"	**2EWG9**	2000
6"	12"	**5CPH3**	1000
8"	15"	**2EWH1**	1000
9"	12"	**2EWH2**	1000
10"	12"	**5CPH4**	1000
Metal Stand			
10"	12"	**2EWH3**	1







Bags are Packaged in a Flat Pack

GA GRAINGER APPROVED

Gusseted, Open-End Poly Bags

For heat impulse sealers, see page 1406.

LLDPE Poly Bags—Linear low-density bags have extra strength that can allow a lighter-gauge bag to replace a heavier-gauge LDPE bag.

LDPE Poly Bags—Low-density bags can be heat sealed, stapled, taped, or closed with a bag tie. Accordion folds on both sides accommodate bulky items.

W	D	L	Std.	Item No.	Pkg. Qty.
Linear Low Density Poly (LLDPE)					
0.6 mil					
4"	2"	8"	USDA/FDA	**5DRU9**	1000
4"	2"	12"	USDA/FDA	**5DRV0**	1000
5½"	4¾"	15"	USDA/FDA	**5DRV1**	1000
5½"	4¾"	19"	USDA/FDA	**5DRV2**	1000
6"	3"	15"	USDA/FDA	**5DRV3**	1000
8"	3"	15"	USDA/FDA	**5DRV4**	1000
8"	4"	18"	USDA/FDA	**5DRV5**	1000
0.75 mil					
4"	2"	8"	USDA/FDA	**5DRV8**	1000
4"	2"	12"	USDA/FDA	**5DRV9**	1000
5"	3½"	13"	USDA/FDA	**5DRW1**	1000
5"	3"	15"	USDA/FDA	**5DRW0**	1000
5"	4½"	15"	USDA/FDA	**5DRW4**	1000
5"	4"	24"	USDA/FDA	**5DRW3**	1000
6"	3"	12"	USDA/FDA	**5DRW8**	1000
6"	3½"	15"	USDA/FDA	**5DRX0**	1000
8"	4"	12"	USDA/FDA	**5DRX3**	1000
8"	3"	15"	USDA/FDA	**5DRX1**	1000
8"	5"	15"	USDA/FDA	**5DRX6**	1000
8"	4"	18"	USDA/FDA	**5DRX5**	1000
10"	4"	20"	USDA/FDA	**5DRX7**	1000
0.85 mil					
4"	2"	8"	USDA/FDA	**5DRX8**	1000
4"	2"	10"	USDA/FDA	**5DRX9**	1000
4"	2"	12"	USDA/FDA	**5DRY0**	1000
6"	3"	12"	USDA/FDA	**5DRY1**	1000
6"	3"	15"	USDA/FDA	**5DRY2**	1000
8"	4"	18"	USDA/FDA	**5DRY6**	1000
8"	4"	21"	USDA/FDA	**5DRY7**	1000
10"	8"	24"	USDA/FDA	**5DRY8**	500
12"	8"	30"	USDA/FDA	**5DRY9**	500
Low Density Poly (LDPE)					
0.75 mil					
5½"	4¾"	16"	USDA/FDA	**5DRV6**	1000
12"	6"	24"	USDA/FDA	**5DRV7**	500
1 mil					
4"	2"	8"	FDA	**3CTX7**	1000
4"	2"	12"	FDA	**3CTX8**	1000
5"	3½"	13"	FDA	**5DRZ1**	1000
5"	4½"	18"	FDA	**5DRZ5**	1000
6"	3"	12"	FDA	**5DRZ7**	1000
6"	3"	15"	FDA	**3CTY2**	1000
6"	3½"	15"	FDA	**5DRZ8**	1000
6"	3½"	18"	FDA	**5DRZ9**	1000
7"	6"	15"	FDA	**5DTA0**	1000
8"	4"	18"	FDA	**3CTY4**	1000
8"	5"	18"	FDA	**5DTA3**	1000
10"	8"	24"	FDA	**3CTY5**	500
12"	8"	30"	FDA	**3CTY6**	500
15"	11"	18"	FDA	**5DTA7**	1000
1.25 mil					
5"	3½"	13"	FDA	**5DTC1**	1000
6"	3½"	15"	FDA	**5DTC7**	1000
8"	3"	15"	FDA	**5DTC8**	1000
8"	4"	18"	FDA	**5DTD1**	1000
12"	6"	24"	FDA	**5DTD5**	500
12"	8"	30"	FDA	**5DTD6**	500
20"	18"	30"	FDA	**5DTD7**	500
20"	18"	31"	FDA	**5DTD8**	250
1.5 mil					
6"	4"	12"	FDA	**5DTE8**	1000
6"	3½"	15"	FDA	**5DTE6**	1000
6"	4"	15"	FDA	**5DTE9**	1000
8"	4"	15"	FDA	**5DTF2**	1000
8"	4"	18"	FDA	**5DTF3**	1000
8"	4"	21"	FDA	**5DTF4**	1000
8"	4"	24"	FDA	**5DTF5**	1000
12"	10"	24"	FDA	**5DTF9**	500
12"	8"	24"	FDA	**5DTG2**	500
15"	9"	24"	FDA	**5DTG4**	500
15"	9"	32"	FDA	**5DTG5**	500
16"	12"	24"	FDA	**5DTG6**	500
16"	14"	36"	FDA	**5DTG8**	250
18"	14"	32"	FDA	**5DTG9**	250
20"	18"	26"	FDA	**5DTH1**	500
20"	18"	30"	FDA	**5DTH2**	250
24"	20"	48"	FDA	**5DTH3**	200
2 mil					
2"	0	4"	USDA/FDA	**5ZW06**	1000
3"	0	5"	USDA/FDA	**5ZW07**	1000
4"	0	6"	USDA/FDA	**5ZW08**	1000
4"	2"	8"	FDA	**2KMP3**	1000
4"	2"	10"	FDA	**5DTH4**	1000
5"	0	7"	USDA/FDA	**5ZW09**	1000
5"	3½"	13"	FDA	**5DTH5**	1000
6"	0	8"	USDA/FDA	**5ZW10**	1000
6"	3"	12"	FDA	**5DTH6**	1000
6"	3"	15"	FDA	**5ZW17**	1000
6"	3"	18"	FDA	**5DTH8**	1000
8"	0	10"	USDA/FDA	**5ZW11**	1000
8"	3"	15"	FDA	**5DTJ0**	1000
8"	4"	18"	FDA	**5ZW18**	500
8"	4"	18"	FDA	**5DTJ1**	1000
8"	4"	21"	FDA	**5DTJ2**	1000
9"	0	12"	USDA/FDA	**5ZW12**	1000
10"	0	14"	—	**5ZW13**	1000
10"	8"	24"	FDA	**5DTJ5**	500
12"	0	15"	—	**5ZW14**	500
12"	0	18"	USDA/FDA	**5ZW15**	500
12"	8"	20"	FDA	**5DTJ7**	500
12"	8"	24"	FDA	**5DTJ8**	500
12"	8"	30"	FDA	**5DTJ9**	500
15"	0	20"	—	**5ZW16**	500
15"	9"	32"	FDA	**5DTK0**	250
16"	14"	36"	FDA	**5DTK1**	250
18"	16"	40"	FDA	**5DTK2**	250
20"	18"	30"	FDA	**5DTK3**	200
24"	20"	48"	FDA	**5DTK4**	100
28"	24"	60"	FDA	**5DTK6**	100
30"	26"	60"	FDA	**5DTK7**	100



Poly Tubing Rack No. 8AYX4



GA GRAINGER APPROVED

Poly Tubing and Rack

Poly Tubing—Cut to length for flexibility; heat seal, staple, bag tie, or tape closed. 100% virgin low-density polyethylene material is treated on 1 side to accept printing. 3" cores. Meet FDA or Amine-free requirements; see Grainger.com® for more standards information.

Cleanroom Poly Tubing—Polyethylene tubing is manufactured in a Class 100 cleanroom, where environmental control of particulate and microbial contamination is maintained. Use of Class 100 tubing is required in aseptic manufacturing/packaging environments.

Poly Tubing Rack—Holds multiple rolls.

W	1.25 mil 3,500 ft Roll Item No.	1.5 mil 2,900 ft Roll Item No.	2 mil 2,150 ft Roll Item No.	3 mil 1,450 ft Roll Item No.	4 mil 1,075 ft Roll Item No.	6 mil 725 ft Roll Item No.
Poly Tubing						
1½"	—	—	**5CPX9**	**5CPY0**	**5CPY1**	—
2"	—	**5CPY2**	**2EWL1**	**5CPY3**	**2EWL2**	**5CPY4**
2½"	—	**5CPY5**	**5CPY6**	—	**5CPY7**	—
3"	—	**5CPY8**	**2EWL3**	**5CPY9**	**2EWL4**	**2EWL5**
4"	—	**5CPZ0**	**2EWL6**	**5CPZ1**	**2EWL7**	**2EWL8**
4½"	—	—	**5CPZ2**	—	**5CPZ3**	—
5"	—	**5CPZ4**	**2EWL9**	**5CPZ5**	**2EWN1**	**2EWN2**
6"	—	**5CPZ6**	**5ZW51**	**5CPZ7**	**2EWN3**	**2EWN4**
7"	—	**5CPZ8**	**2EWN5**	**5CPZ9**	**2EWN6**	**2EWN7**
8"	—	**5CRA0**	**2EWN8**	**5CRA1**	**5ZW54**	**2EWN9**
9"	—	**5CRA2**	**2EWP1**	—	**2EWP2**	**2EWP3**
10"	**5CRA3**	**5CRA4**	**2EWP4**	**5CRA5**	**5ZW56**	**2EWP5**
12"	**5CRA6**	**5CRA7**	**2EWP6**	**5CRA8**	**5ZW58**	**2EWP7**
14"	**5CRC0**	**5CRC1**	**5CRC2**	**5CRC3**	**5CRC4**	**5CRC5**
16"	**5CRD0**	**5CRD1**	**5CRD2**	**5CRD3**	**5CRD4**	**5CRD5**
18"	**5CRD6**	**5CRD7**	**5CRD8**	**5CRD9**	—	**5CRE1**
20"	**5CRE2**	**5CRE3**	**5CRE4**	**5CRE5**	**5CRE6**	**5CRE7**
22"	**5CRE8**	**5CRE9**	—	**5CRF1**	—	—
24"	**5CRF3**	**5CRF4**	**5CRF5**	—	**5CRF7**	**5CRF8**
26"	**5CRF9**	**5CRG0**	—	**5CRG2**	**5CRG3**	—
30"	**5CRG8**	**5CRG9**	—	**5CRH1**	**5CRH2**	**5CRH3**
32"	**5CRH4**	—	—	—	—	—
36"	**5CRJ0**	**5CRJ1**	**5CRJ2**	**5CRJ3**	**5CRJ4**	**5CRJ5**
38"	**5CRJ6**	**5CRJ7**	—	**5CRJ9**	—	—
48"	—	**5CRK8**	—	**5CRL0**	**5CRL1**	—

W	Item No.
Cleanroom Poly Tubing, 500 ft-Roll	
4 mil	
16"	**5CRL3**
24"	**5CRL4**
6 mil	
4"	**5CRL6**
6"	**5CRL7**
Poly Tubing Rack	
24"	**8AYX4**

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

GA GRAINGER APPROVED

Reclosable Polyethylene Zipper and Slide-Seal Bags

- Secure seal helps eliminate spills or contamination
- Meet FDA requirements for food applications
- All items are LDPE bag material except where noted in footnote

Zip-Seal—Wide opening for easy sealing and resealing. Zipper seal bags are premium, leak-resistant bags with heavy-duty zipper.

Slide-Seal—Slide mechanism glides smoothly across bag.



Zip Seal with Write On Surface



Slide Seal with Write On Surface

W	L	Item No.		Pkg. Qty.
Zip Seal				
2 mil				
1½"	2"	**5CND4**		1000
2"	2"	**5CND5**		1000
2"	3"	**2EWP8**	*	100
2"	3"	**5CND6**		1000
2"	5"	**5CND7**		1000
3"	3"	**5CNE0**		1000
3"	4"	**5ZW30**	*	100
3"	4"	**6GGL9**		100
3"	4"	**5CNE1**		1000
3"	5"	**5ZW31**	*	100
3"	5"	**6GGN0**		100
3"	5"	**5CNE2**		1000
3"	6"	**5CNE3**		1000
3"	8"	**5CNE4**		1000
3"	12"	**5CNE6**		1000
4"	6"	**5ZW33**	*	100
4"	6"	**5CNE9**		1000
4"	7"	**5CNF0**		1000
4"	8"	**5CNF1**		1000
5"	7"	**5CNF4**		1000
5"	8"	**2EWP9**	*	100
5"	8"	**5CNF5**		1000
5"	10"	**5CNF6**		1000
5"	12"	**5CNF7**		1000
6"	4"	**5CNF8**		1000
6"	6"	**2EWR1**	*	100
6"	6"	**5CNF9**		1000
6"	8"	**3CTZ7**		1000
6"	9"	**5ZW35**	*	100
6"	9"	**5CNG0**		1000
6"	10"	**5CNG1**		1000
6"	12"	**5CNG2**		1000
6"	15"	**5CNG3**		1000
7"	8"	**5CNG4**		1000
8"	8"	**2EWR2**	*	100
8"	8"	**6GGN5**		100
8"	8"	**5CNG5**		1000
8"	10"	**5CNG6**		1000
8"	12"	**5CNG7**		1000
9"	12"	**6GGN6**		100
9"	12"	**5ZW37**	*	100
10"	10"	**5CNG9**		1000
10"	12"	**5CNH0**		1000
10"	13"	**5CNH1**		1000
12"	12"	**5CNH2**		1000
12"	15"	**5ZW38**	*	100
12"	15"	**6GGN7**		100
12"	15"	**5CNH3**		1000
13"	15"	**5CNH4**		1000
13"	18"	**5CNH5**		1000
14"	20"	**5CNH6**		500
18"	20"	**5CNH7**		500
4 mil				
2"	3"	**5CNH8**		1000
2½"	3"	**5CNH9**		1000
3"	4"	**5ZW39**	*	100
3"	4"	**6GGN8**		100
3"	4"	**5CNJ0**		1000
3"	5"	**5CNJ1**		1000
4"	4"	**5CNJ2**		1000
4"	6"	**5ZW42**	*	100
4"	6"	**6GGP0**		100
4"	6"	**5CNJ3**		1000
4"	8"	**5CNJ4**		1000
5"	8"	**5CNJ5**		1000
6"	4"	**5CNJ6**		1000
6"	6"	**5CNJ7**		1000
6"	8"	**5CNJ8**		1000
6"	9"	**5ZW44**	*	100
6"	9"	**6GGP1**		100
6"	9"	**5CNJ9**		1000
6"	10"	**5CNK0**		1000
8"	8"	**5CNK1**		1000
8"	10"	**5CNK2**		1000
9"	12"	**5ZW46**	*	100
9"	12"	**6GGP2**		100
9"	12"	**5CNK3**		1000
10"	10"	**5CNK4**		1000
10"	12"	**5CNK5**		1000
10"	13"	**5CNK6**		500
12"	12"	**5CNK7**		1000
12"	15"	**5ZW47**	*	100
12"	15"	**6GGP3**		100
12"	15"	**8AV55**		500
13"	15"	**3CUA1**		500
13"	18"	**5CNK9**		500
14"	24"	**3CUA2**		250
Double Zip Seal				
4 mil				
2½"	3"	**5CNL0**		1000
3"	4"	**5CNL1**		1000
3"	5"	**5CNL2**		1000
4"	6"	**5CNL4**		1000
5"	8"	**5CNL5**		1000
6"	8"	**5CNL7**		1000
8"	8"	**5CNL8**		1000
8"	10"	**5CNL9**		1000
9"	12"	**5CNN0**		1000
10"	12"	**5CNN1**		1000
12"	12"	**5CNN2**		1000
12"	15"	**5CNN3**		500
13"	18"	**5CNN4**		500
Zip Seal, Hang Hole				
2 mil				
2"	3"	**5CNX8**		1000
2"	8"	**5CNX9**		1000
3"	4"	**5CNY2**		1000
3"	5"	**5CNY3**		1000
4"	4"	**5CNY5**		1000
4"	6"	**5CNY6**		1000
4"	6"	**5CPC0**	†	1000
4"	8"	**5CNY7**		1000
5"	7"	**5CNY8**		1000
5"	7"	**5CPC1**	†	1000
5"	8"	**5CNY9**		1000
6"	8"	**5CNZ1**		1000
6"	8"	**5CPC4**	†	1000
6"	9"	**5CNZ2**		1000
8"	10"	**5CPC6**	†	1000
9"	12"	**5CNZ6**		1000
4 mil				
2½"	3"	**5CNZ7**		1000
3"	4"	**5CNZ8**		1000
3"	5"	**5CNZ9**		1000
4"	4"	**5CPA0**		1000
4"	6"	**5CPA1**		1000
5"	8"	**5CPA2**		1000
6"	8"	**5CPA4**		1000
6"	9"	**5CPA5**		1000
8"	10"	**5CPA6**		1000
9"	12"	**5CPA7**		1000
10"	12"	**5CPA8**		1000
Zip Seal, Write on Surface				
2 mil				
2"	2"	**5CNU8**		1000
2"	3"	**5CNU9**		1000
3"	4"	**5CNV0**		1000
3"	5"	**5ZW32**	*	100
3"	5"	**5CNV1**		1000
4"	6"	**5ZW34**	*	100
4"	6"	**6GGP5**		100
4"	6"	**5CNV2**		1000
4"	8"	**5CNV3**		1000
4"	10"	**5CNV4**		1000
5"	5"	**5CNV5**		1000
5"	8"	**5CNV6**		1000
6"	8"	**8RJP2**		1000
6"	9"	**5ZW36**	*	100
6"	9"	**6GGP6**		100
6"	9"	**5CNV8**		1000
8"	10"	**5CNV9**		1000
9"	12"	**5CNW0**		1000
10"	13"	**5CNW1**		1000
13"	15"	**5CNW2**		1000
4 mil				
2"	3"	**5CNW3**		1000
2½"	3"	**5CNW4**		1000
3"	4"	**5CNW5**		1000
3"	5"	**5ZW41**	*	100
3"	5"	**6GGP7**		100
3"	5"	**5CNW6**		1000
4"	6"	**5ZW43**	*	100
4"	6"	**6GGP8**		100
4"	6"	**5CNW7**		1000
5"	8"	**5CNW8**		1000
6"	8"	**5CNW9**		1000
6"	9"	**5ZW45**	*	100
6"	9"	**6GGP9**		100
6"	9"	**5CNX0**		1000
8"	10"	**5CNX1**		1000
9"	12"	**5CNX2**		1000
Slide Seal				
3 mil				
6"	6"	**5CNX3**		250
6"	9"	**5CNX4**		250
8"	7"	**3RB10**		250
8"	10"	**5CNX5**		250
14"	11"	**5CNX6**		250
16"	12"	**9AEK6**		250
Slide Seal, Write on Surface				
3 mil				
6"	9"	**3RB15**		250
9"	12"	**3RB16**		250

** Come in convenient dispenser box.*
† Polypropylene bag material.

Reclosable LDPE Zipper Seal Bags

MINIGRIP
A Member of Inteplast Group

- Reinforced double zipper seal
- All-LDPE construction
- Meet FDA packaging standards

Durable double zipper is easy to snap open, even with one hand, and zips securely shut. No. 36FF38 features white write-on block. No. 36FF27 features white write-on block and hang hole.

W	L	Size	Item No.	Pkg. Qty.
Double Zip Seal				
2 mil				
6 in	10 in	1 qt	**36FF35**	1000
8 in	10 in	1 gal	**36FF31**	1000
9 in	12 in	1 gal	**36FF32**	1000
10 in	12 in	1 gal	**36FF36**	1000
10 in	13 in	1 gal	**36FF42**	1000
12 in	12 in	1 gal	**36FF43**	1000
12 in	15 in	1 gal	**36FF28**	1000
13 in	15 in	1.5 gal	**36FF41**	1000
13 in	18 in	1.5 gal	**36FF29**	1000
4 mil				
8 in	10 in	1 gal	**36FF30**	1000
9 in	12 in	1 gal	**36FF40**	1000
10 in	10 in	1 gal	**36FF39**	500
10 in	13 in	1 gal	**36FF34**	500
12 in	12 in	1 gal	**36FF37**	500
12 in	15 in	1 gal	**36FF44**	500
13 in	18 in	1.5 gal	**36FF33**	500
Double Zip Seal, Write on Surface				
2 mil				
9 in	12 in	1 gal	**36FF38**	1000
Double Zip Seal, Write on Surface and Hang Hole				
4 mil				
9 in	12 in	1 gal	**36FF27**	1000

No. 36FF37

No. 36FF38

No. 36FF27



Clear Polyethylene


Cotton/ Poly Blend


Cotton/Poly Blend with Mailing Tag

Drawstring Parts Bags

GRAINGER APPROVED

Drawstring seals bag securely and provides a means for attaching enclosed parts to a larger member of assembly.

Polypropylene and Polyethylene—Clear bags with drawstring.

Cotton/Poly Blend—Breathable bags are 50% heavier than most muslin or mill bags and provide good closure. All items have a single drawstring except Nos. 5DHZ9 and 5DJA0 have double drawstrings. For very small parts.

Cotton/Poly Blend with Mailing Tag—Same as the cotton bags above, but with an 8 mil card stock mailing tag overstitched at the bottom of the bag. Write on surface.

W	L	Item No.	Pkg. Qty.
1.5 mil, Polypropylene (PP)			
3"	5"	**5CPD1**	2000
4"	6"	**5CPD2**	2000
4"	8"	**5CPD3**	2000
5"	6"	**5CPD4**	2000
5"	8"	**5CPD5**	2000
6"	8"	**5CPD6**	1000
6"	10"	**5CPD7**	1000
7"	12"	**5CPD8**	1000
8"	12"	**5CPD9**	1000
9"	12"	**5CPE0**	1000
9¼"	14"	**5CPE1**	1000
12"	18"	**5CPC9**	1000
15"	18"	**5CPD0**	1000
2 mil, Low Density Polyethylene (LDPE)			
3"	5"	**5CPE2**	2000
4"	6"	**5CPE3**	2000
5"	8"	**5CPE4**	2000
6"	8"	**2EWG4**	1000
6"	10"	**5CPE5**	1000
8"	12"	**5CPE6**	1000
9"	12"	**2EWG5**	1000
9½"	14"	**2EWG8**	1000
12"	18"	**2EWG6**	1000
15"	18"	**2EWG7**	1000

W	L	Item No.	Pkg. Qty.
Cotton/Poly Blend			
2¾"	4"	**5DHZ9**	100
3"	4"	**5DJA1**	100
3"	5"	**3KB44**	100
3"	5"	**5DJA0**	100
4"	6"	**3KB45**	100
5"	7"	**5DJA2**	100
5"	8"	**3KB46**	100
6"	8"	**5DJA3**	100
6"	10"	**2LEF9**	100
8"	10"	**5DJA4**	100
8"	12"	**3KB47**	100
8"	16"	**5DJA5**	100
12"	16"	**2LEG1**	100
Cotton/Poly Blend with Mailing Tag			
3"	5"	**5DJA6**	100
4"	6"	**3KB48**	100
5"	7"	**5DJA7**	100
5"	8"	**2LEG2**	100
6"	8"	**5DJA8**	100
6"	10"	**5DJA9**	100
8"	10"	**5DJC0**	100
8"	12"	**3KB49**	100


Door Jamb Protector No. 2NKU1


Nonwoven Pad No. 4LGK9


Lifting Straps No. 32TL81

Moving Pads, Covers, Bags, and Lifting Straps

GRAINGER APPROVED

All pads and covers are 50% cotton and feature zigzag lock stitching, 1-pc. linear batting, and finished corners to cushion items. The greater the weight, the thicker the material.

Pads—Woven pads have double-lock stitching and nonwoven pads have single-lock stitching.

Covers—Sofa and loveseat covers have ties, door jamb protector has 3 springs to hold cover in place. All other woven covers have hook-and-loop fasteners.

Lifting Straps and Moving Harness—Encourage proper lifting techniques by using leverage so that items being moved seem lighter. Also won't leave scrapes and scratches on floors like dollies or hand trucks.

Weight	L	W	Item No.	Pkg. Qty.
Woven Pads				
Blue				
1.75 lb.	72"	45"	**4LGL1**	1
4.5 lb.	72"	80"	**2NKT1**	6
4.5 lb.	72"	80"	**2NKR9**	12
6 lb.	72"	80"	**2NKT3**	12
Camo				
5.2 lb.	72"	80"	**2NKT5**	12
Green				
5.3 lb.	72"	80"	**2NKT2**	6
Nonwoven Pads				
Blue				
6 lb.	72"	80"	**2NKT4**	6
6.9 lb.	72"	80"	**2NKR8**	6
6.9 lb.	72"	80"	**2NKR7**	12
Blue/Green				
3 lb.	72"	80"	**4LGK9**	1
Multi-Color				
7.5 lb.	78"	100"	**2NKT6**	1

Description	Weight	L	W	Item No.
Woven Covers, Blue				
Sofa	17.6 lb.	109"	37"	**4LGK2**
Loveseat	12.9 lb.	63"	37"	**4LGK3**
Refrigerator	12.5 lb.	36"	32"	**4LGJ9**
Chair	8.6 lb.	45"	37"	**4LGK1**
Washer/Dryer/Range	8.5 lb.	28"	38"	**4LGJ8**
Door Jamb Protector Pad w/3 Springs to Secure to Frame	2.5 lb.	69"	24"	**2NKU1**
Hand Truck Cover	1.5 lb.	58"	18"	**2NKT9**
Lifting Straps and Moving Harness, 700 lb. Capacity				
Forearm Forklift Lifting Straps	—	9 ft. 4"	3"	**32TL81**
Moving Harness	—	2 ft. 2"	3"	**32TL82**

Description	Item No.
Moving Supplies	
Canvas Mattress Carrier, Fits All Sizes	**4LGK4**
Mover Bungee Kit, Pkg. of 6: (2) 29", (2) 36", (2)45"	**4TZZ3**

GRAINGER APPROVED

Mattress Bags

Clear, low-density polyethylene bags protect contents from dust, spills, and dirty hands. All bags can be recycled.


Single No. 4NPX2

Mattress Size	Dim. L	W	D	Thickness	Item No.		Pkg. Qty.
Crib	59½"	33"	—	1.10 mil	**5DTT3**		300
Single	81"	43"	—	1.10 mil	**5DTT4**		200
	84"	46"	—	1.10 mil	**4NPX2**		200
	87"	39"	10"	1.50 mil	**4NZF7**	*	1
	90"	39"	8"	1.50 mil	**5DTT5**		100
	90"	39"	10"	4 mil	**4NPX6**		25
	90"	40"	10"	2 mil	**5DTT6**		100
Double	81"	52"	—	1.10 mil	**5DTT7**		200
	84"	54"	7"	1.10 mil	**4NPX3**		150
	90"	54"	8"	1.50 mil	**5DTT8**		100
	90"	54"	12"	4 mil	**4NPX7**		25
Queen	90"	60"	8"	1.50 mil	**5DTT9**		100
	90"	60"	12"	4 mil	**4NPX8**		25
	92"	60"	9"	1.10 mil	**4NPX4**		125
	92"	60"	10"	2 mil	**4NZF8**	*	1
King	90"	76"	10"	1.50 mil	**5DTU0**		100
	90"	76"	14"	4 mil	**4NPX9**		25
	96"	70"	12"	1.10 mil	**4NPX5**		100
	96"	78"	10"	2 mil	**4NZF9**	*	1

Retail pack, nonvented bags.



Clear Equipment Covers

GRAINGER APPROVED

Polyethylene bags provide dust protection for sensitive equipment and materials; come on convenient rolls for easy handling.

W	L	D	Item No.	Pkg. Qty.
1 mil Thickness				
12"	26"	8"	**5CPF4**	500
14"	22"	3"	**5CPF5**	500
18"	21"	15"	**5CPF7**	250
19"	34"	—	**5CPF8**	500
20"	35"	5"	**5CPF9**	500
21"	30"	13"	**5CPG0**	500
22"	26"	12"	**5CPG1**	250
22"	58"	16"	**5CPG2**	100
28"	60"	22"	**5CPG6**	150
36"	45"	7"	**5CPG8**	150
38"	48"	26"	**5CPG9**	150
40"	48"	20"	**5CPH0**	150
1.50 mil Thickness				
16"	36"	14"	**5CPF6**	250
24"	30"	—	**5CPG3**	500
25"	30"	15"	**5CPG4**	250
26"	36"	—	**5CPG5**	250
30"	42"	—	**5CPG7**	250



Bin Liners

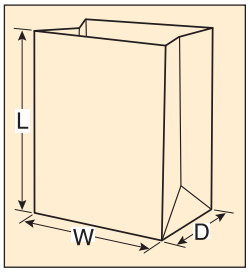
GRAINGER APPROVED

Protective liners shield bin contents from dust, dirt, and moisture. They are made from sturdy low-density polyethylene material and packaged on convenient rolls.

D	W	L	Thickness	Item No.	Pkg. Qty.
24"	40"	72"	2 mil	**2EWH7**	100
32"	42"	72"	2 mil	**2EWH8**	100
36"	46"	65"	2 mil	**2EWH9**	100
40"	48"	100"	1 mil	**2EWH4**	100
46"	48"	72"	2 mil	**2EWJ1**	100


Brown


White




Brown


White

GA GRAINGER APPROVED

DURO BAG MFG. CO.

Grocery Bags

Self-opening style bags feature a flat bottom for handling lightweight basics to heavier items like canned goods or milk jugs.

W	D	L	Bag Name	Basis Weight	Brand	Item No.	Pkg. Qty.
Brown							
4 5/16"	2 7/16"	7 7/8"	2#	30 lb.	GA	**12R024**	500
4 5/16"	2 7/16"	7 7/8"	2#	52 lb.	Duro	**493X74**	400
4 3/4"	2 5/16"	8 9/16"	3#	52 lb.	Duro	**493X75**	400
4 3/4"	2 15/16"	8 9/16"	3#	30 lb.	GA	**12R025**	500
5"	3 1/8"	9 3/4"	4#	52 lb.	Duro	**493X76**	400
5"	3 21/64"	9 3/4"	4#	30 lb.	GA	**12R026**	500
5 1/4"	3 7/16"	10 5/16"	5#	52 lb.	Duro	**493X77**	400
5 1/4"	3 7/16"	10 15/16"	5#	30 lb.	GA	**12R027**	500
6"	3 5/8"	11 1/16"	6#	35 lb.	GA	**12R028**	500
6"	3 5/8"	11 1/16"	6#	52 lb.	Duro	**493X78**	400
6 1/8"	4 1/8"	12 7/16"	8#	35 lb.	GA	**12R029**	500
6 1/8"	4 1/8"	12 7/16"	8#	50 lb.	Duro	**493X66**	400
6 1/8"	4 1/8"	12 7/16"	8#	57 lb.	Duro	**493X79**	400
6 5/16"	4 3/16"	13 3/8"	10#	35 lb.	GA	**12R030**	500
6 5/16"	4 3/16"	13 3/8"	10#	50 lb.	Duro	**493X67**	400
6 5/16"	4 3/16"	13 3/8"	10#	57 lb.	Duro	**493X80**	400
7 1/16"	4 1/2"	13 3/4"	12#	40 lb.	GA	**12R031**	500
7 1/16"	4 1/2"	13 3/4"	12#	50 lb.	Duro	**493X68**	400
7 1/16"	4 1/2"	13 3/4"	12#	57 lb.	Duro	**493X81**	400
7 3/4"	4 13/16"	16"	16#	40 lb.	GA	**12R032**	500
7 3/4"	4 13/16"	16"	16#	50 lb.	Duro	**493X69**	400
7 3/4"	4 13/16"	16"	16#	57 lb.	Duro	**493X82**	400
8 1/4"	5 1/4"	18"	25#	40 lb.	GA	**12R035**	500
8 1/4"	5 1/4"	18"	25#	50 lb.	Duro	**493X72**	400
8 1/4"	5 1/4"	18"	25#	57 lb.	Duro	**493X85**	400
8 1/4"	5 9/16"	13 3/8"	20# Shorty	57 lb.	Duro	**493X84**	400
8 1/4"	5 9/16"	16 1/8"	20#	40 lb.	GA	**12R033**	500
8 1/4"	5 9/16"	16 1/8"	20#	50 lb.	Duro	**493X70**	400
8 1/4"	5 9/16"	16 1/8"	20#	57 lb.	Duro	**493X83**	400
8 1/4"	5 15/16"	13 3/8"	20# Shorty	40 lb.	GA	**12R034**	500
8 1/4"	6 1/8"	15 7/8"	25# Shorty	40 lb.	GA	**12R036**	500
8 1/4"	6 1/8"	15 7/8"	25# Shorty	50 lb.	Duro	**493X73**	400
8 1/4"	6 1/8"	15 7/8"	25# Shorty	57 lb.	Duro	**493X86**	400
9 3/4"	6 1/4"	16 3/8"	1/8 BBL	52 lb.	GA	**12R104**	500
9 3/4"	6 1/4"	16 3/8"	1/8 BBL	57 lb.	GA	**12R106**	500
10 1/8"	6 3/4"	14 3/8"	1/8 BBL	52 lb.	GA	**12R105**	500
10 1/8"	6 3/4"	14 3/8"	1/8 BBL	57 lb.	GA	**12R107**	500
12"	7"	14"	1/7 BBL	57 lb.	GA	**12R109**	500
12"	7"	14"	1/7 BBL	66 lb.	GA	**12R111**	500
12"	7"	17"	1/6 BBL	40 lb.	GA	**12R103**	400
12"	7"	17"	1/6 BBL	52 lb.	GA	**12R094**	500
12"	7"	17"	1/6 BBL	57 lb.	GA	**12R095**	500
12"	7"	17"	1/6 BBL	60 lb.	GA	**12R096**	500
12"	7"	17"	1/6 BBL	66 lb.	GA	**12R097**	500
12"	7"	17"	1/6 BBL	70 lb.	GA	**12R099**	400
12"	7"	17"	1/6 BBL	70 lb.	GA	**12R098**	500
12"	7"	17"	1/6 BBL	76 lb.	GA	**12R101**	400
12"	7"	17"	1/6 BBL	80 lb.	GA	**12R102**	400
White							
4 5/16"	2 7/16"	7 7/8"	2#	30 lb.	GA	**12R038**	500
4 3/4"	2 15/16"	8 9/16"	3#	30 lb.	GA	**12R039**	500
5"	3 21/64"	9 3/4"	4#	30 lb.	GA	**12R040**	500
5 1/4"	3 7/16"	10 15/16"	5#	30 lb.	GA	**12R041**	500
6"	3 5/8"	11 1/16"	6#	35 lb.	GA	**12R042**	500
6 1/8"	4 1/8"	12 7/16"	8#	35 lb.	GA	**12R043**	500
6 5/16"	4 3/16"	13 3/8"	10#	35 lb.	GA	**12R044**	500
7 1/16"	4 1/2"	13 3/4"	12#	35 lb.	GA	**12R045**	500
7 3/4"	4 13/16"	16"	16#	40 lb.	GA	**12R046**	500
8 1/4"	5 1/4"	18"	25#	40 lb.	GA	**12R049**	500
8 1/4"	5 9/16"	16 1/8"	20#	40 lb.	GA	**12R047**	500
8 1/4"	5 15/16"	13 3/8"	20# Shorty	40 lb.	GA	**12R048**	500
8 1/4"	6 1/8"	15 7/8"	25# Shorty	40 lb.	GA	**12R050**	500
10 1/8"	6 3/4"	14 3/8"	1/8 BBL	52 lb.	GA	**12R115**	500
12"	7"	17"	1/6 BBL	52 lb.	GA	**12R113**	500
12"	7"	17"	1/6 BBL	60 lb.	GA	**12R114**	500

GA GRAINGER APPROVED

Paper Twist Handle Shopping Bags

Paper bags hold purchased items for transport. They open at the top for ease of filling. These bags are ideal for holding restaurant takeout containers.

W	D	L	Bag Name	Basis Weight	Pkg. Qty.	Brown Item No.	White Item No.
8"	4 1/2"	10 1/4"	Tempo	60 lb.	250	**12R072**	**12R082**
9"	5 3/4"	13 1/2"	Kary	60 lb.	250	**12R073**	**12R083**
10"	5"	13"	Missy	60 lb.	250	**12R074**	**12R084**
10"	6 3/4"	12"	Bistro	57 lb.	250	**12R091**	—
12"	9"	15 3/4"	Regal	65 lb.	200	**12R078**	—
13"	6"	15 3/4"	Traveler	60 lb.	250	**12R076**	**12R086**
13"	7"	13"	Jr. Mart	65 lb.	250	**12R075**	**12R085**
13"	7"	17"	Sup R Mart	65 lb.	250	**12R077**	**12R087**
14"	10"	15"	Super Royal	70 lb.	200	—	**12R093**
14"	10"	15 3/4"	Super Royal	70 lb.	200	**12R092**	—
16"	6"	12"	Tote	65 lb.	250	**12R079**	**12R088**
16"	6"	19 1/4"	Downtowner	65 lb.	200	**12R080**	**12R089**
18"	7"	18 3/4"	Cargo	70 lb.	200	**12R081**	**12R090**


No. 4TU93


No. 4NZE5

GA GRAINGER APPROVED

Packing Peanuts

Reusable, loose packing peanuts fill excess space in a container around a product and provide some protection against damage during transit for items that are not fragile. They are stored in bags or boxes at a packaging station to prepare items for shipment.

Recycled Polystyrene Peanuts— Dissolve in water. Reusable.

Biodegradable Peanuts—For packages that will not be exposed to moisture. 100% recycled fill is reusable and static-free. Will not chip or dust.

Bag Size	Peanut Color	Peanut Shape	Bag Height	Item No.
Recycled Polystyrene Peanuts				
7½ cu. ft.	White	S-shaped	20½"	**4TU93**
15 cu. ft.	White	S-shaped	32"	**4NZE7**
Biodegradable Peanuts				
7½ cu. ft.	White	S-shaped	24"	**4NZE5**
20 cu. ft.	White	S-shaped	49"	**4NZE6**

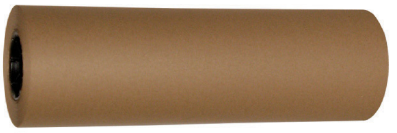
GA GRAINGER APPROVED

Instant Foam Packaging

The foam relies on pressure to form into the shape of items in a container. It doesn't need to be warmed and works faster than foam that requires heat. It is supplied in a bag containing two compounds. When mixed with pressure, the compounds harden into foam that surrounds the item in the box and fills all void space.



Bag Width	Bag Length	Bag No.	Bags per Case	Item No.
10¼"	15½"	10	36	**2CXC3**
10½"	15½"	20	36	**2CXC4**
10¼"	15½"	40	30	**2CXC5**
10¼"	15½"	60	30	**2CXD6**
10¼"	15½"	80	24	**2CXC6**



GA GRAINGER APPROVED

Kraft Paper Rolls

- Find more Kraft paper rolls on Grainger.com®.

Kraft heavy packaging recycled paper is used to wrap items for shipping or fill void areas of containers so that products don't shift during transit.

Roll Width	Roll Length	Roll Weight	Item No.
30 lb. Basis Weight			
12"	1200 ft.	12 lb.	**6TWR0**
18"	1200 ft.	18 lb.	**5PGL4**
24"	1200 ft.	24 lb.	**5PGL5**
30"	1200 ft.	30 lb.	**5PGL6**
36"	1200 ft.	36 lb.	**5PGL7**
48"	1200 ft.	48 lb.	**5PGL8**
40 lb. Basis Weight			
12"	900 ft.	12 lb.	**6TWR1**
18"	900 ft.	18 lb.	**5PGL9**
24"	900 ft.	24 lb.	**5PGN0**
	1225 ft.	33 lb.	**5PGN1**
30"	900 ft.	30 lb.	**5PGN2**
36"	900 ft.	36 lb.	**5PGN3**
	1225 ft.	49 lb.	**5PGN4**
48"	900 ft.	48 lb.	**5PGN5**

Roll Width	Roll Length	Roll Weight	Item No.
50 lb. Basis Weight			
12"	720 ft.	12 lb.	**6TWR2**
18"	720 ft.	18 lb.	**5PGN6**
24"	720 ft.	24 lb.	**5PGN7**
30"	720 ft.	30 lb.	**5PGN8**
36"	720 ft.	36 lb.	**5PGN9**
48"	720 ft.	48 lb.	**5PGP0**
60 lb. Basis Weight			
18"	600 ft.	18 lb.	**5PGP1**
24"	600 ft.	24 lb.	**5PGP2**
30"	600 ft.	30 lb.	**5PGP3**
36"	600 ft.	36 lb.	**5PGP4**
48"	360 ft.	34 lb.	**3EVT7**
	600 ft.	48 lb.	**5PGP5**

GA GRAINGER APPROVED

Kraft Paper Sheets

This heavy packaging recycled paper can be used to wrap small products by hand or fill space in small boxes to prevent items from shifting during shipping. Precut stacks don't need to be torn or cut to size.



Sheet Width	Sheet Length	Sheets per Bundle	Item No.
30 lb. Basis Weight			
24"	18"	1660	**5PGR0**
3 ft.	24"	830	**5PGR1**
50 lb. Basis Weight			
24"	18"	1000	**5PGR2**
3 ft.	24"	500	**5PGR3**
60 lb. Basis Weight			
24"	18"	400	**5PGR7**
3 ft.	24"	200	**5PGR8**

GA GRAINGER APPROVED

Bubble Rolls for General Use

Flexible plastic material made with regularly spaced air pockets is used to wrap and cushion items inside a package.

UPSable—Rolls meet standard UPS shipping guidelines. Because they're smaller than standard rolls, they are a good choice for small e-commerce businesses that ship low volumes and have limited space.

Standard—These rolls are ideal for e-commerce companies that pack and ship lightweight or midweight items without sharp corners.



UPSable



Standard

Bubble Size	Roll Width	Roll Length	Color	Rolls per Bundle	NON-PERFORATED Item No.	PERFORATED (every 12") Item No.
UPSable Bubble Rolls						
3/16"	12"	300 ft.	Clear	4	—	**36DY57**
	24"	300 ft.	Clear	2	**39UK86**	**36DY55**
	48"	300 ft.	Clear	1	**36DY61**	—
1/2"	12"	125 ft.	Clear	4	**39UL17**	**36DY53**
	24"	125 ft.	Clear	2	**36DY72**	**36DY50**
	48"	125 ft.	Clear	1	—	**36DY56**
Standard Bubble Rolls						
3/16"	12"	750 ft.	Clear	4	**39UL11**	**36DY62**
	16"	750 ft.	Clear	3	—	**39UK89**
	24"	750 ft.	Clear	2	**36DY68**	**36DY73**
	48"	300 ft.	Clear	1	—	**36DY69**
	48"	750 ft.	Clear	1	**36DY70**	**36DY78**
5/16"	12"	188 ft.	Clear	4	**5VEN6**	**36DY59**
	12"	375 ft.	Clear	4	**5VEK3**	—
	16"	188 ft.	Clear	3	—	**36DY77**
	16"	375 ft.	Clear	3	**5VEK4**	**36DY71**
	24"	188 ft.	Clear	2	**5VEN7**	**36DY79**
	24"	375 ft.	Clear	2	—	**5VER7**
	24"	375 ft.	Clear	2	**5VEK5**	**36DY66**
	24"	375 ft.	Clear	1	**39UK78**	—
	48"	188 ft.	Clear	1	**5VEN8**	—
	48"	375 ft.	Clear	1	**5VEL9**	—
1/2"	12"	250 ft.	Clear	4	**39UL01**	**36DY47**
	16"	250 ft.	Clear	3	—	**36DY46**
	24"	250 ft.	Clear	2	**36DY48**	**36DY54**
	48"	125 ft.	Clear	1	**36DY65**	—
	48"	250 ft.	Clear	1	**36DY64**	**36DY49**



GA GRAINGER APPROVED

A-Flute Corrugated Wraps

Layered packing material protects fragile items such as glass or china against damage during storage or shipment. A smooth layer of Kraft color paper is glued to a fluted layer that can be cut or torn to size with a utility knife.

Roll Width	Roll Length	Item No.
3"	250 ft.	**36MZ82**
4"	250 ft.	**36MZ83**
6"	250 ft.	**36MZ84**
9"	250 ft.	**36MZ85**
12"	250 ft.	**36MZ86**
15"	250 ft.	**36MZ87**
18"	250 ft.	**36MZ88**
24"	250 ft.	**3EVP2**
30"	50 ft.	**36MZ94**
36"	250 ft.	**3EVP3**
48"	250 ft.	**3EVP4**
60"	250 ft.	**36MZ92**
72"	250 ft.	**36MZ93**

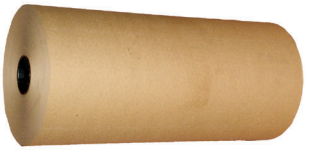


GA GRAINGER APPROVED

Newsprint Rolls

These rolls fit in dispensing stands so lengths can be torn or cut from the roll.

Roll Width	Roll Length	Roll Weight	Item No.
30 lb. Basis Weight			
18"	1200 ft.	18 lb.	**5PGT4**
24"	1200 ft.	24 lb.	**5PGT5**
30"	1200 ft.	30 lb.	**5PGT6**
36"	1200 ft.	36 lb.	**5PGT7**
48"	1200 ft.	48 lb.	**5PGT8**



GA GRAINGER APPROVED

Bogus Paper Rolls

Bogus paper is soft, making it easy to crumple by hand to fill space in containers. It's an economical choice for wrapping or layering between fragile items such as dishes, glassware, or small decorations. The paper is made from recycled paper fiber and newsprint.

Roll Width	Roll Length	Roll Weight	Item No.
50 lb. Basis Weight			
18"	720 ft.	18 lb.	**5PGR9**
24"	720 ft.	24 lb.	**5PGT0**
30"	720 ft.	30 lb.	**5PGT1**
36"	720 ft.	36 lb.	**5PGT2**
48"	720 ft.	48 lb.	**5PGT3**
70 lb. Basis Weight			
24"	1175 ft.	56 lb.	**5PGP9**



GA GRAINGER APPROVED

Poly-Coated Paper Rolls

This packaging material is made from heavy, stiff Kraft paper that has been coated with a wax layer on one side. It's a good choice for wrapping metal parts or items that must avoid contact with moisture, because the coating protects items against oil, grease, and water.

Roll Width	Roll Length	Roll Weight	Item No.
50 lb. Basis Weight			
18"	600 ft.	18 lb.	**5PGL0**
24"	600 ft.	24 lb.	**5PGL1**
36"	600 ft.	36 lb.	**5PGL2**
48"	600 ft.	48 lb.	**5PGL3**

GA GRAINGER APPROVED

Anti-Static Bubble Rolls

Anti-static material protects against electrostatic discharge (ESD), and is a good choice for packaging electronic devices or computers.



Roll W	Roll L	Pkg. Qty.	NON-PERFORATED Item No.	PERFORATED (every 12") Item No.
3/16" Bubble Size				
12"	300 ft.	4	**39UK81**	—
12"	750 ft.	4	**5VEP2**	**39UL09**
24"	175 ft.	1	—	**5VEX0**
24"	750 ft.	2	**5VEP3**	**36DY75**
48"	750 ft.	1	—	**5VEV6**
1/2" Bubble Size				
12"	250 ft.	4	**5VEP8**	**36DY63**
24"	250 ft.	2	**5VEP9**	**36DY67**
48"	250 ft.	1	**5VER0**	**5VEW2**



No. 20TM09



No. 36LP61



No. 20TL89

GA GRAINGER APPROVED SCS ARMOR PROTECTIVE PACKAGING
CONTROL COMPANY Digital, Traceable®, and Unique Products
Bel-Art • H-B Instrument SP SCIENCEWARE

Desiccant Bags

When added to packages, these packets absorb water vapor and protect items that must not get wet. They protect leather items, food products, or medicines.

Nonwoven—When the relative humidity (RH) is less than 20%, these bags absorb moisture better than silica gel. They are used to control humidity around metal and electronics, and are effective at temperatures up to 302°F.

Tyvek—These tear-proof, dust-free bags meet FDA specifications for contact with food and drugs. They are used to absorb moisture when shipping food, pharmaceuticals, and electronic components.

Capsule and Cartridge—FDA-approved desiccant bags are for use in food and pharmaceutical applications. The silica gel is packed in a hard capsule or cartridge to save space when used in pharmaceutical bottles. Cartridges and capsules are best suited for use at temperatures below 100°F, but can be used at up to 302°F.

W	L	Area Protected	Desiccant Bag Size	Container Type	Bags per Package	Brand	Item No.
Nonwoven Desiccant Bags							
2¼"	2⁹⁄₁₆"	0.14 cu. ft.	6g	Carton	1200	GA	**20TL98**
2¼"	3³⁵⁄₆₄"	0.42 cu. ft.	17g	Carton	550	GA	**20TM01**
3³⁄₆₄"	3¾"	0.83 cu. ft.	33g	Carton	300	GA	**20TM02**
3³⁄₆₄"	5⅛"	1.67 cu. ft.	66g	Carton	150	GA	**20TM03**
3³⁵⁄₆₄"	5²⁹⁄₃₂"	3.33 cu. ft.	132g	Carton	500	GA	**20TL87**
9¾"	14¼"	66.67 cu. ft.	2640g	Carton	30	GA	**20TM09**
Tyvek Desiccant Bags							
¼"	3½"	0.83 cu. ft.	18g	Pail, Plastic	550	SCS	**20FX09**
¾"	1⁷⁄₁₆"	0.03 cu. ft.	1g	Carton	6000	GA	**20TM10**
⅛"	1¹³⁄₁₆"	0.06 cu. ft.	2g	Carton	3500	GA	**20TM11**
1"	2½"	0.14 cu. ft.	1/6 oz.	Pail	1200	Armor Shield	**36LP57**
1"	3½"	0.28 cu. ft.	⅓ oz.	Pail	700	Armor Shield	**36LP58**
1¹⁄₆₄"	2¹¹⁄₁₆"	0.14 cu. ft.	5g	Carton	1750	GA	**20TL92**
1½"	2¾"	0.28 cu. ft.	10g	Carton	900	GA	**20TM08**
1½"	3⅛"	0.42 cu. ft.	½ oz.	Pail	550	Armor Shield	**36LP59**
2⅛"	2⅛"	0.03 cu. ft.	7g	Pail, Plastic	1200	SCS	**20RE41**
2⅛"	2½"	0.03 cu. ft.	12g	Pail, Plastic	700	SCS	**20RE40**
2¼"	2⁹⁄₁₆"	0.14 cu. ft.	6g	Carton	1200	GA	**20TM04**
2¼"	3¼"	0.28 cu. ft.	11g	Carton	700	GA	**20TM05**
2¼"	3³⁵⁄₆₄"	0.42 cu. ft.	17g	Carton	550	GA	**20TM06**
3"	3"	476.00 cu. in.	⅜ oz.	Bag	40	Control Company	**8C176**
3"	3"	476.00 cu. in.	⅜ oz.	Bag	40	Control Company	**8ZF81**
3"	4"	0.83 cu. ft.	1 oz.	Pail	300	Armor Shield	**36LP60**
3"	4"	0.83 cu. ft.	1 oz.	Drum	1300	Armor Shield	**36LP62**
3"	4½"	0.83 cu. ft.	40g	Pail, Plastic	300	SCS	**20FX10**
3"	6"	1.67 cu. ft.	2 oz.	Pail	150	Armor Shield	**36LP61**
3"	6"	1.67 cu. ft.	2 oz.	Drum	800	Armor Shield	**36LP63**
3³⁄₆₄"	3¾"	0.83 cu. ft.	33g	Carton	300	GA	**20TL90**
3³⁄₆₄"	5⅛"	1.67 cu. ft.	66g	Carton	150	GA	**20TM07**
3¾"	5²³⁄₃₂"	3.33 cu. ft.	132g	Carton	500	GA	**20TL93**
4⅛"	8¹⁷⁄₆₄"	6.67 cu. ft.	264g	Carton	300	GA	**20TL88**
5"	4½"	0.83 cu. ft.	68g	Pail, Plastic	150	SCS	**20FX11**
5"	5½"	3.33 cu. ft.	4 oz.	Drum	500	Armor Shield	**36LP64**
5"	8"	6.67 cu. ft.	8 oz.	Drum	300	Armor Shield	**36LP65**
5²⁹⁄₃₂"	8²¹⁄₃₂"	13.33 cu. ft.	528g	Carton	150	GA	**20TL89**
5²⁹⁄₃₂"	9¹⁹⁄₃₂"	104.00 cu. ft.	125g	Carton	72	GA	**20TL91**
Capsule Desiccant Bags							
½"	¾"	0.03 cu. ft.	1g	Carton	4000	GA	**20TL97**
Cartridge Desiccant Bags							
4"	2"	3.00 cu. ft.	—	Can	1	SP Scienceware	**9TZ71**

Roll Width	Roll Length	Rolls per Bundle	PERFORATED (every 12") Item No.	NON-PERFORATED Item No.
1⁄32" Foam Thickness				
6"	2000 ft.	12	**5VFF6**	**5VFC0**
12"	2000 ft.	6	—	**5VFC1**
18"	2000 ft.	4	**5VFF8**	**5VFC2**
24"	2000 ft.	3	**5VFF9**	**5VFC3**
48"	2000 ft.	1	—	**5VFC4**
72"	2000 ft.	1	**5VFG1**	**5VFC5**
1/20" Foam Thickness				
12"	1500 ft.	1	**1HAX1**	—
24"	1500 ft.	1	**1HAX9**	—
36"	1500 ft.	1	**1HAY8**	—
1⁄16" Foam Thickness				
6"	1250 ft.	12	**5VFG2**	**5VFC6**
12"	900 ft.	1	**1HAX3**	—
	1250 ft.	6	**5VFG3**	**5VFC7**
18"	1250 ft.	4	**5VFG4**	**5VFC8**
24"	900 ft.	1	**1HAY2**	—
48"	1250 ft.	1	**36DY84**	**36DY88**
72"	1250 ft.	1	—	**5VFD1**
3⁄32" Foam Thickness				
6"	750 ft.	12	**5VFG8**	**5VFD2**
12"	600 ft.	1	**1HAX5**	—
	750 ft.	6	**5VFG9**	—
18"	750 ft.	4	**5VFH0**	**5VFD4**
24"	600 ft.	1	**1HAY4**	—
	750 ft.	3	**5VFH1**	**5VFD5**
48"	750 ft.	1	**36DY87**	**5VFD6**
72"	750 ft.	1	**5VFH3**	**5VFD7**
⅛" Foam Thickness				
6"	550 ft.	12	**5VFH4**	**5VFD8**
12"	450 ft.	1	**1HAX7**	—
	550 ft.	6	—	**5VFD9**
18"	550 ft.	4	**5VFH6**	**5VFE0**
24"	450 ft.	1	**1HAY6**	—
48"	550 ft.	1	**36DY82**	**36DY85**
72"	550 ft.	1	**36DY86**	**5VFE3**
¼" Foam Thickness				
6"	250 ft.	12	—	**5VFE4**
12"	250 ft.	6	**5VFJ1**	—
18"	250 ft.	4	—	**5VFE6**
24"	250 ft.	3	—	**5VFE7**
48"	250 ft.	1	**36DY83**	—
72"	250 ft.	1	**5VFJ5**	—



GA GRAINGER APPROVED

Standard Foam Rolls

Foam sheeting is ideal for packing large volumes of fragile or breakable items. Rolls fit on a dispenser stand so foam can be pulled from the roll and cut to size or torn at perforations. White color packaging foam is thin, flexible and protects glass, ceramics, metal parts, or wood products from scratching or breaking during shipment.



No. 2GWN1



No. 2GWP2

GA GRAINGER APPROVED

Kraft Paper Dunnage Bags

Recyclable bags are inflated with air and reusable if not punctured, and help prevent items in trailers, railcars, and containers from shifting during transit. They provide a firm cushion around large items and protect products against damage. Inflator connects an air compressor to a dunnage bag for quick inflation.

L	W	Mil Thickness	Breaking Pressure	Working Pressure	Item No.
Kraft Paper Dunnage Bags					
36"	24"	28	6 psi	3 psi	**2GWN1**
48"	36"	28	6 psi	3 psi	**2GWN2**
48"	48"	28	6 psi	3 psi	**2GWN6**
60"	48"	28	6 psi	3 psi	**2GWN7**
66"	36"	28	6 psi	3 psi	**2GWN3**
72"	36"	28	6 psi	3 psi	**2GWN4**
72"	48"	28	6 psi	3 psi	**2GWN8**
84"	36"	28	6 psi	3 psi	**2GWN5**
84"	48"	28	6 psi	3 psi	**2GWN9**
96"	48"	28	6 psi	3 psi	**2GWP1**

Max. Air Pressure	L	W	Item No.
Dunnage Bag Inflator			
100 psi	6"	3"	**2GWP2**

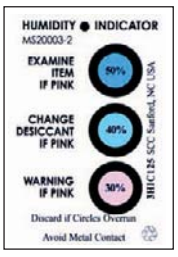
GA GRAINGER APPROVED SCS

Humidity Indicator Cards

Moisture-sensitive spots measure the percentage of relative humidity inside a shipment. The card hangs on the inside of a container wall. If the humidity level exceeds a certain percentage, the moisture sensing spot on the card changes color from blue to pink, alerting shippers to check the package for moisture or damage.

W	L	No. of Dots	Humidity Levels	Indicators per Case	Brand	Item No.
1½"	4¹⁄₆₄"	6	10%, 20%, 30%, 40%, 50%, 60%	200	GA	**20TL94**
1⁹⁄₁₆"	4¾"	6	10%, 20%, 30%, 40%, 50%, 60%	200	SCS	**9WXZ5**
2"	3"	3	5%, 10%, 15%	125	SCS	**8UY76**
2"	3"	3	5%, 10%, 60%	125	SCS	**8GFK3**
2"	3"	3	30%, 40%, 50%	125	SCS	**20FX02**
2"	3"	4	10%, 20%, 30%, 40%	100	SCS	**9KPX6**
3"	2¹⁄₆₄"	3	30%, 40%, 50%	125	GA	**20TL95**

No. 20FX02





GRAINGER APPROVED

Corrosion Inhibiting VCI Paper Rolls

Heavy packaging paper can be cut or torn to size. Rolls fit in a dispenser for use at a packing station. The paper wraps metal parts for shipment and storage, and it prevents rust from building up on items.

Basis Weight	Roll Width	Roll Length	Roll Weight	Brand	Item No.	Pkg. Qty.
30 lb.	12"	600 ft.	9 lb.	Armor Wrap	**36LP10**	3
30 lb.	18"	600 ft.	13 lb.	Armor Wrap	**36LP11**	2
30 lb.	24"	600 ft.	17 lb.	Armor Wrap	**36LP12**	2
30 lb.	36"	600 ft.	9 lb.	Armor Wrap	**36LP13**	1
30 lb.	48"	600 ft.	9 lb.	Armor Wrap	**36LP14**	1
30 lb.	36"	600 ft.	9 lb.	Armor Wrap	**36LP34**	1
30 lb.	36"	600 ft.	9 lb.	Armor Wrap	**36LP41**	1
35 lb.	36"	600 ft.	32 lb.	GA	**5VFY5**	1
35 lb.	48"	600 ft.	43 lb.	GA	**5VFY6**	1
80 lb.	48"	1500 ft.	9 lb.	Armor Wrap	**49JZ38**	1



Corrosion Inhibiting VCI Paper Sheets

Heavy packaging paper comes in presized stacks. Paper sheets wrap small metal parts for shipping or storage. They keep moisture out and prevent rust from forming on items.

Basis Weight	Sheet Width	Sheet Length	Sheets per Bundle	Item No.	Pkg. Qty.
2 lb.	4"	4"	5000	**49JZ25**	1000
8 lb.	9"	9"	1000	**49JZ31**	1000
15 lb.	12"	12"	1000	**49JZ32**	1000
20 lb.	29"	27"	500	**49JZ35**	250
30 lb.	6"	6"	2000	**55AJ94**	1000
30 lb.	12"	12"	1000	**55AK02**	1000
30 lb.	15"	10"	1000	**55AJ95**	1000
30 lb.	15"	12"	1000	**55AJ96**	1000
30 lb.	18"	18"	1000	**49JZ34**	1000
30 lb.	24"	12"	1000	**55AJ97**	1000
30 lb.	24"	18"	1000	**55AJ98**	1000
30 lb.	3 ft.	24"	1000	**55AJ99**	1000
30 lb.	3 ft. 6"	3 ft. 6"	1000	**55AK01**	1000
32 lb.	3 ft.	3 ft.	100	**49JZ36**	250
55 lb.	4 ft.	4 ft.	1000	**49JZ37**	250



VCI Open Poly Bags

These versatile bags combine beneficial barrier packing with anti-corrosion protection for safe, easy, and dry packaging of metal products. They are recyclable and nontoxic.

Thickness	W	D	L	Color	Item No.	Pkg. Qty.
2 mil	10"	19"	14"	Blue	**36LN91**	500
2 mil	48"	80"	50"	Blue	**36LN89**	75
4 mil	3"	—	5"	Blue	**36LN72**	5000
4 mil	4"	0	6"	Blue	**475W26**	2000
4 mil	6"	0	8"	Blue	**475W28**	2000
4 mil	8"	10"	10"	Blue	**36LN79**	1000
4 mil	9"	12"	12"	Blue	**36LN80**	1000
4 mil	10"	12"	12"	Blue	**36LN81**	1000
4 mil	10"	21"	16"	Blue	**475W25**	250
4 mil	10"	—	12"	Blue	**36LN75**	1000
4 mil	11"	12"	13"	Blue	**475W24**	250
4 mil	12"	18"	18"	Blue	**36LN82**	500
4 mil	12"	—	15"	Blue	**36LN76**	500
4 mil	16"	30"	20"	Blue	**36LN95**	100
4 mil	18"	24"	24"	Blue	**36LN83**	250
4 mil	20"	25"	27"	Blue	**36LN87**	100
4 mil	23"	17"	46"	Blue	**36LP02**	100
4 mil	24"	36"	36"	Blue	**36LN84**	125
4 mil	29"	56"	29"	Blue	**36LP03**	50
4 mil	33"	65"	34"	Blue	**36LN96**	50
4 mil	36"	80"	40"	Blue	**36LN86**	25
4 mil	44"	96"	54"	Blue	**36LN85**	25
4 mil	45"	68"	55"	Blue	**475W22**	35
4 mil	45"	80"	55"	Blue	**475W21**	40
4 mil	46"	90"	49"	Clear	**475W23**	35
4 mil	48"	80"	58"	Blue	**36LP06**	25



No. 36LP66



No. 36LP68

GRAINGER APPROVED

Corrosion Inhibiting VCI Stretch Wrap

VCI (volatile corrosion inhibiting) film is wrapped around a bundle or pallet to protect machinery and ferrous parts where corrosion of metal parts is a concern. **Hand-grade wrap** can be applied with or without a handheld dispenser. The worker applies the wrap by holding the roll and walking around the bundle. These rolls are smaller than machine-grade wrap rolls, making them easier to transport around a facility. It is used in low- to moderate-volume wrapping applications. **Machine-grade wrap** is installed on a stretch wrap machine. It comes on larger, heavier roils than hand-grade wrap. Opaque stretch wrap cannot be seen through, which provides added security by hiding product labels when shipping sensitive or valuable items.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Hand-Grade VCI Stretch Wrap Films						
Longer Core						
100	5 in	900 ft	Blue	12 Rolls	Armor Shield	**36LP66**
No Handle						
80	18 in	1,500 ft	Blue	4 Rolls	Armor Shield	**36LP67**
100	20 in	1,500 ft	Blue	1 Roll	GA	**5VFY3**
Machine-Grade VCI Stretch Wrap Films						
100	20 in	4,500 ft	Blue	1 Roll	Armor Shield	**36LP68**
100	20 in	4,500 ft	Blue	1 Roll	GA	**5VFY4**

Corrosion Inhibiting VCI Pads

Foam pads are infused with a volatile corrosion inhibitor for preventing rust. They can be placed in or between fragile metal items or electronic components to cushion them during transit or storage. VCI pads prevent moisture from accumulating on fragile metal parts that would cause water damage or rust.



W	L	Area Protected	Pads per Case	Thickness	Item No.	Pkg. Qty.
1"	1"	1 cu. ft.	2000	¼"	**36LP53**	2000
5"	2"	1 cu. ft.	1000	¼"	**36LP52**	1000
9⅝"	9⅝"	8 cu. ft.	250	¼"	**36LP51**	250



Corrosion Inhibiting VCI Films

Versatile films combine the benefits of barrier protection with anti-corrosion protection for safe, easy, and dry packaging of metal products.

Mil Thickness	Roll Width	Roll Length	Roll Weight	Item No.	Pkg. Qty.
4	20 ft.	100 ft.	47 lb.	**36LP46**	1
4	36"	500 ft.	30 lb.	**36LP48**	1
4	48"	500 ft.	40 lb.	**36LP49**	1
4	72"	500 ft.	56 lb.	**36LP50**	1
6	20 ft.	100 ft.	57 lb.	**36LP47**	1

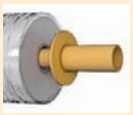
Stretch Wrap Style and Handle Types



Cast Stretch Wrap
High-clarity wrap tears quiet off the roll and is ideal for uniform loads.



Blown Stretch Wrap
Puncture-resistant wrap is ideal for irregular loads.



Handle w/Brake



Longer Core



Reusable Handle



No. 15G118

GA GRAINGER APPROVED

Hand-Grade Stretch Wrap

Protect pallets and bundles from contaminants such as dirt and moisture, keep items together, and prevent tampering. This wrap is for use with or without a handheld dispenser. Apply the wrap by holding the roll and walking around the bundle. These rolls are smaller than machine-grade wrap rolls. Use to wrap boxes and irregular loads or bundles, such as lumber or pallets with irregular sides.

Cast Stretch Wrap Films—This wrap is quieter to apply, and has more cling than blown film. It also provides improved clarity over blown film for viewing bundle contents and requires less force to stretch the wrap during application for uniform loads.

Blown Stretch Wrap Films—Puncture- and tear-resistant wrap is a good choice for irregular loads with sharp edges. It is less likely than cast film to change shape or stretch after application, which makes it good for heavy loads or loads that might shift during transport.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Item No.
Cast Stretch Wrap Films					
Light Duty					
60	12"	2000 ft.	Clear	1 Roll	**15A933**
60	12"	2000 ft.	Light Green	1 Roll	**15A942**
60	14"	2000 ft.	Clear	1 Roll	**15A983**
60	15"	2000 ft.	Clear	1 Roll	**15G111**
60	15"	2000 ft.	Light Green	1 Roll	**15A947**
60	18"	2000 ft.	Clear	1 Roll	**15A984**
60	18"	2000 ft.	Light Green	1 Roll	**15A952**
65	15 1/16"	1476 ft.	Clear	192 Rolls	**21XL08**
Standard Duty					
70	12"	1500 ft.	Clear	1 Roll	**15A988**
70	12"	1500 ft.	Light Green	1 Roll	**15A943**
70	15"	1500 ft.	Clear	1 Roll	**15G112**
70	15"	1500 ft.	Light Green	1 Roll	**15A948**
70	18"	1500 ft.	Clear	1 Roll	**15A998**
70	18"	1500 ft.	Light Green	1 Roll	**15A953**
70	18"	1500 ft.	Clear	4 Rolls	**15C019**
70	18"	1500 ft.	Clear	192 Rolls	**36P079**
80	12"	1500 ft.	Clear	1 Roll	**15A990**
80	12"	1500 ft.	Light Green	1 Roll	**15A944**
80	14"	1500 ft.	Clear	1 Roll	**15A934**
80	15"	1500 ft.	Clear	1 Roll	**15G113**
80	15"	1500 ft.	Light Green	1 Roll	**15A949**
80	18"	1500 ft.	Light Green	1 Roll	**15A954**
80	18"	1500 ft.	Clear	4 Rolls	**15A936**
80	18"	1500 ft.	Clear	192 Rolls	**36P080**
90	12"	1500 ft.	Clear	1 Roll	**15G110**
90	12"	1500 ft.	Light Green	1 Roll	**15A945**
90	15"	1500 ft.	Clear	1 Roll	**15G114**
90	15"	1500 ft.	Light Green	1 Roll	**15A950**
90	18"	1500 ft.	Clear	1 Roll	**15C003**
90	18"	1500 ft.	Light Green	1 Roll	**15A955**
Heavy Duty					
120	12"	1000 ft.	Light Green	1 Roll	**15A941**
120	15"	1000 ft.	Clear	1 Roll	**15G115**
120	15"	1000 ft.	Light Green	1 Roll	**15A946**
120	18"	1000 ft.	Clear	1 Roll	**15G118**
120	18"	1000 ft.	Light Green	1 Roll	**15A951**
Blown Stretch Wrap Films					
Light Duty					
60	18"	2000 ft.	Clear	4 Rolls	**54ZV63**
Standard Duty					
60	18"	1500 ft.	Clear	4 Rolls	**54ZV64**
80	12"	1500 ft.	Clear	4 Rolls	**54ZV61**
80	14"	1500 ft.	Clear	4 Rolls	**54ZV62**
80	18"	1500 ft.	Clear	4 Rolls	**54ZV65**
80	20"	1000 ft.	Clear	4 Rolls	**54ZV68**
90	18"	1500 ft.	Clear	4 Rolls	**54ZV66**
Heavy Duty					
120	18"	1000 ft.	Clear	4 Rolls	**54ZV67**

GOODWRAPPERS HANDWRAPPERS GA GRAINGER APPROVED

Color-Coding Stretch Wrap with Handles

Color-coding is used to quickly identify contents to sort and route items, and can be used to indicate tampering or repalletizing. This hand-grade stretch wrap has a handle that workers hold while applying wrap, protecting hands from cuts and scrapes caused by sharp cores and reducing hand fatigue. **Handle with brake stretch wrap** features a brake between the roll and the user's hand. **Reusable handle stretch wrap** can be removed from the roll when it's empty and reused. Ergonomic grip helps reduce worker fatigue.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Handle with Brake Stretch Wrap Films						
Cast						
80	20"	1000 ft.	Black	1 Roll	Goodwrappers	**15A986**
80	20"	1000 ft.	Blue	1 Roll	Goodwrappers	**15A878**
80	20"	1000 ft.	Red	1 Roll	Goodwrappers	**15A893**
80	20"	1000 ft.	Orange	4 Rolls	Goodwrappers	**15A890**
Reusable Handle Stretch Wrap Films						
Cast						
80	3"	1000 ft.	Black	4 Rolls	Goodwrappers	**15A879**
80	3"	1000 ft.	Blue	4 Rolls	GA	**15A919**
80	3"	1000 ft.	Blue	4 Rolls	Goodwrappers	**15A881**
80	3"	1000 ft.	Orange	4 Rolls	GA	**15A921**
80	3"	1000 ft.	Red	4 Rolls	GA	**15A918**
80	5"	1000 ft.	Black	4 Rolls	Goodwrappers	**15A880**
80	5"	1000 ft.	Blue	4 Rolls	GA	**15A925**
80	5"	1000 ft.	Green	4 Rolls	GA	**15A926**
80	5"	1000 ft.	Orange	4 Rolls	GA	**15A927**
80	5"	1000 ft.	Red	4 Rolls	GA	**15A924**



No. 15A878



No. 15A879



No. 15A909



No. 15A895



No. 15A846

GOODWRAPPERS HANDWRAPPERS GA GRAINGER APPROVED

Stretch Wrap with Handles

Handles are included to protect hands from the sharp edges of the core and reduce cuts and abrasions. To apply the wrap, the worker holds the handle and walks around the bundle. Smaller than machine-grade wrap for easy portability.

Longer Core Handle Stretch Wrap Films—Built-in handle extends from each end of the core, allowing workers to hold the core while wrapping. Handles are disposable.

Reusable Handle Stretch Wrap Films—Handles can be removed when the roll is empty and installed on refill rolls. An ergonomic grip allows wrap to be applied with one hand and helps reduce hand fatigue.

Handle with Brake Stretch Wrap Films—Hand-grade stretch wrap has a reusable handle with a brake between the handle and core to protect workers' hands from sharp edges.

Gauge	W	L (ft.)	Color*	Rolls/ Case	Brand	Cast Item No.	Blown Item No.
Longer Core Handle Stretch Wrap Films							
60	20"	1000	LG	1	GA	**15A957**	—
65	20"	1000	C	4	GA	**40TE22**	—
70	20"	1000	LG	1	GA	**15A958**	—
80	3"	1000	C	1	GA	**15A930**	—
80	5"	1000	C	1	GA	**15A909**	—
80	5"	1000	C	4	GA	**40TE23**	—
80	5"	1500	C	2	GA	—	**36P084**
80	20"	1000	C	1	GA	**15A908**	—
80	20"	1000	LG	1	GA	**15A959**	—
90	5"	1000	C	2	GA	—	**19R724**
90	20"	1000	LG	1	GA	**15A960**	—
120	3"	600	C	2	GA	—	**19R723**
120	3"	700	C	1	GA	**15A931**	—
120	5"	700	C	1	GA	**15A910**	—
120	20"	800	LG	1	GA	**15A956**	—
150	3"	600	C	1	GA	**15A932**	—
150	5"	600	C	1	GA	**15A911**	—
Reusable Handle Stretch Wrap Films							
60	2"	1000	LG	24	Good	**15A856**	—
70	18"	1500	C	1	Good	**15A985**	—
80	2"	1000	LG	4	Good	**15A859**	—
80	3"	1000	C	4	GA	**15A912**	—
80	3"	1000	G	4	Good	**15A888**	—
80	3"	1000	C	18	GA	**15C015**	—
80	3"	1500	C	2	GA	—	**36P085**
80	5"	1000	C	4	GA	**15A915**	—
80	5"	1000	C	12	GA	**15C017**	—
90	3"	1000	C	18	Good	**15A902**	—
120	2"	650	C	24	GA	**40TE21**	—
120	3"	600	P	18	Good	—	**15C009**
120	3"	650	C	4	Good	**15A895**	—
120	3"	700	C	4	GA	**15A913**	—
120	3"	700	C	18	GA	**15C020**	—
120	3"	700	LG	18	GA	**15A937**	—
120	5"	650	C	4	Good	**15A896**	—
120	5"	700	C	4	GA	**15A916**	—
120	5"	700	LG	4	GA	**15A978**	—
120	5"	700	C	12	GA	**15C016**	—
150	3"	600	C	4	GA	**15A914**	—
150	5"	600	C	4	GA	**15A917**	—
150	5"	650	C	4	Good	**15A898**	—
Handle with Brake Stretch Wrap Films							
60	20"	1000	LG	1	Good	**15A850**	—
70	10"	1000	C	4	GA	—	**15A833**
70	20"	1000	C	4	Good	—	**15A836**
70	30"	1000	C	4	Good	**15A840**	—
80	15"	1000	P	1	Good	—	**15A844**
80	20"	1000	P	1	Good	—	**15A846**
90	20"	1000	LG	1	Good	**15A853**	—
120	20"	800	C	1	Good	**15A885**	—
120	20"	800	P	1	Good	—	**15A845**

** LG=Light Green. C=Clear. P=Purple. G=Green.*

GA GRAINGER APPROVED

Color-Coding Cast Stretch Wrap Rolls

Standard duty wrap is used to identify and protect uniform bundles. It can help sort and route items, and can be used to indicate tampering or repalleting. It is quieter to apply, and has more cling than blown rolls. It also requires less force to stretch the wrap during application, reducing worker fatigue.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Item No.
80	18 in	1,500 ft	Blue	1 Roll	**15C004**
80	18 in	1,500 ft	Green	1 Roll	**15C006**
80	18 in	1,500 ft	Orange	1 Roll	**15A987**
80	18 in	1,500 ft	Red	1 Roll	**15C007**



No. 15A987

For Stretch Wrap Style and Handle Types, see page 1415.


No. 36P125

GRAINGER APPROVED

Machine-Grade Stretch Wrap


No. 36P113

This wrap is installed on a stretch wrap machine. It comes on larger, heavier rolls than hand-grade wrap. Stretch wrap machines are used in medium- to high-volume packing and shipping applications.

Cast Stretch Wrap Films—The film protects the contents from tampering and damage, and is quieter to apply and has more cling than blown film. It also provides improved clarity over blown film for viewing bundle labeling and requires less force to stretch the wrap during application, reducing worker fatigue.

Blown Stretch Wrap Films—Blown film is less likely than cast film to change shape or stretch after application, which makes it a good choice for heavy, irregular loads with sharp edges.

Gauge	Overall Width	Overall Length	Cling Type	Color	Rolls per Case	Item No.
Cast Stretch Wrap Films						
Light Duty						
50	20"	9000 ft.	1-Side	Clear	1 Roll	**36P127**
50	20"	9000 ft.	1-Side	Clear	40 Rolls	**36P104**
50	30"	9000 ft.	1-Side	Clear	20 Rolls	**36P103**
60	20"	7500 ft.	1-Side	Clear	40 Rolls	**21XL07**
60	20"	8000 ft.	1-Side	Clear	1 Roll	**15C011**
65	20"	7500 ft.	1-Side	Clear	1 Roll	**36P117**
Standard Duty						
70	20"	6000 ft.	1-Side	Clear	40 Rolls	**36P110**
70	20"	6000 ft.	2-Side	Clear	1 Roll	**19R726**
80	12"	5000 ft.	1-Side	Clear	1 Roll	**15C018**
80	20"	5000 ft.	1-Side	Clear	1 Roll	**15C012**
80	20"	5000 ft.	2-Side	Clear	40 Rolls	**36P118**
80	20"	6000 ft.	1-Side	Clear	1 Roll	**36P114**
80	20"	6000 ft.	1-Side	Clear	40 Rolls	**36P120**
80	20"	6000 ft.	2-Side	Clear	1 Roll	**19R727**
80	30"	6000 ft.	1-Side	Clear	20 Rolls	**36P101**
80	30"	6000 ft.	2-Side	Clear	1 Roll	**36P112**
80	30"	6000 ft.	2-Side	Clear	20 Rolls	**36P097**
90	20"	5000 ft.	1-Side	Clear	40 Rolls	**36P108**
90	20"	5000 ft.	2-Side	Clear	1 Roll	**19R728**
Heavy Duty						
100	20"	4750 ft.	1-Side	Clear	40 Rolls	**36P125**
100	30"	4500 ft.	1-Side	Clear	20 Rolls	**36P102**
110	20"	4250 ft.	2-Side	Clear	1 Roll	**19R729**
120	20"	4000 ft.	2-Side	Clear	40 Rolls	**36P119**
Blown Stretch Wrap Films						
Standard Duty						
70	20"	6000 ft.	2-Side	Clear	40 Rolls	**36P109**
80	20"	6000 ft.	2-Side	Clear	1 Roll	**36P113**
80	20"	6000 ft.	2-Side	Clear	40 Rolls	**36P098**
Heavy Duty						
120	20"	3750 ft.	2-Side	Clear	40 Rolls	**36P105**

GOODWRAPPERS HANDWRAPPERS

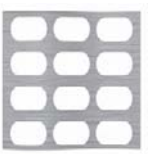
Breathable Stretch Wrap


No. 15A847


No. 15A907

Pallet netting is wrapped around bundles and bagged items to secure them to pallets. **Netted wrap** is used to bundle packaged produce, such as bags of onions and potatoes, or other food items that need refrigeration or freezing. **Vented wrap** is often used with perishables such as dairy products, fresh fruits and vegetables, beverages, frozen food, and pharmaceuticals. It is softer than netted stretch wrap, making it less likely to cut through bundle contents.


Netted


Vented

Gauge	Overall Width	Overall Length	Rolls per Case	Item No.
Netted Stretch Wraps				
80	20"	500 ft.	1 Roll	**15A847**
80	20"	1000 ft.	4 Rolls	**15A906**
Vented Stretch Wraps				
80	16"	500 ft.	4 Rolls	**15A907**

GOODWRAPPERS HANDWRAPPERS

Top Sheeting Replacement Roll



Top sheeting is used in stretch wrapping operations to cover the top of a pallet that can be reached while wrapping the sides. Replacement rolls are composed of perforated sheets. They have handles with brake and are smaller than top sheeting rolls, making them ideal for low-volume and hand-wrapping applications. Place the sheet on top of the pallet before wrapping the sides.

Sheet Length	Sheet Width	Mil Thickness	Core Size	Color	Sheets per Roll	Rolls per Case	Item No.
60"	60"	1.25	1" dia.	Clear	Continuous Roll	1 Roll	**15C010**

GOODWRAPPERS HANDWRAPPERS GRAINGER APPROVED

Product-Concealing Stretch Wrap

Opaque wrap provides added security by hiding product labels when shipping sensitive or valuable items. It is a continuous length of plastic that is wrapped around the sides of a pallet or bundle to protect the package from dust and moisture, prevent and indicate tampering, and keep items together.

Handle Opaque Stretch Wrap Films—This hand-grade wrap has an integrated handle that protects hands from the sharp edges of the core, reduces cuts and abrasions, and eliminates the need to purchase a handle separately.

Hand Opaque Stretch Wrap Films—This hand-grade wrap is manually wrapped and can be applied with or without a handheld dispenser. These rolls are smaller than machine-grade wrap rolls, making them easier to transport around a facility. Hand-grade wrap is used in low- to moderate-volume wrapping applications and can be used to wrap boxes and irregular loads or bundles, such as lumber.

Machine Opaque Stretch Wrap Films—This machine-grade wrap comes on larger, heavier rolls than hand-grade wrap and is installed on a stretch wrap machine. It is used in medium-to-high volume packing and shipping applications to conceal bundle contents.


No. 15A905


No. 15C013


No. 15C005

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Handle Opaque Stretch Wrap Films						
Handle with Brake						
80	20"	1000 ft.	Black	1 Roll	Goodwrappers	**15A883**
80	20"	1000 ft.	White	1 Roll	Goodwrappers	**15A848**
80	20"	1000 ft.	Black	4 Rolls	Goodwrappers	**15A837**
No Handle						
80	18"	1500 ft.	Black	1 Roll	GA	**15C005**
Reusable Handle						
80	3"	1000 ft.	Black	4 Rolls	GA	**15A922**
80	3"	1000 ft.	White	4 Rolls	GA	**15A923**
80	5"	1000 ft.	Black	4 Rolls	GA	**15A928**
80	5"	1000 ft.	White	4 Rolls	GA	**15A929**
Hand Opaque Stretch Wrap Films						
Reusable Handle						
80	3"	1000 ft.	White	4 Rolls	Goodwrappers	**15A904**
80	5"	1000 ft.	White	4 Rolls	Goodwrappers	**15A905**
Machine Opaque Stretch Wrap Films						
No Handle						
80	20"	5000 ft.	Black	1 Roll	GA	**15C013**

GRAINGER APPROVED GOODWRAPPERS HANDWRAPPERS

High-Performance Stretch Wrap

This wrap provides the same strength and puncture resistance at a thinner gauge than standard stretch wrap. It is a continuous length of plastic with one-sided cling that is wrapped around the sides of a pallet or bundle to protect the package from dust and moisture, prevent and indicate tampering, and keep items together.


No. 49XF32

Hand-Grade—Used in low-to-moderate volume wrapping applications or to wrap boxes and irregular loads or bundles, such as lumber.

Machine-Grade—Larger and heavier than hand-grade stretch wrap.


No. 21XL01

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Hand Grade High Performance Stretch Wrap						
30	15"	1476 ft.	Clear	1 Roll	GA	**11Y823**
35	15½"	2000 ft.	Clear	1 Roll	GA	**11Y824**
47	12 13/16"	1476 ft.	Clear	4 Rolls	Goodwrappers	**49XF32**
Machine Grade High Performance Stretch Wrap						
39	20"	10,000 ft.	Clear	40 Rolls	GA	**21XL04**
39	30"	10,000 ft.	Clear	20 Rolls	GA	**21XL01**
42	20"	9500 ft.	Clear	40 Rolls	GA	**21XL05**
42	30"	9500 ft.	Clear	20 Rolls	GA	**21XL02**
45	20"	9000 ft.	Clear	40 Rolls	GA	**21XL06**
70	20"	6500 ft.	Clear	40 Rolls	GA	**36P096**



GRAINGER APPROVED

Pallet Covers

These covers fit over loaded pallets to protect the contents from dust, dirt, and debris during transport or storage in a warehouse or loading dock.

Thickness	Color	W	D	H	Item No.	Pkg. Qty.
1.5 mil	Clear	51"	49"	73"	**2EWH5**	100
1.5 mil	Clear	51"	49"	85"	**2EWH6**	100
2 mil	Clear	51"	49"	73"	**2EWJ2**	50
2 mil	Clear	51"	49"	85"	**2EWJ3**	50
2 mil	Clear	55"	45"	73"	**2LCY4**	30
2 mil	Clear	55"	45"	85"	**2LCY5**	25
2 mil	Clear	55"	45"	97"	**2LCY6**	20
2 mil	Clear	68"	65"	82"	**2EWJ4**	50
3 mil	Black	51"	49"	73"	**2EWJ5**	50
3 mil	Clear	51"	49"	73"	**2EWJ7**	50
3 mil	Clear	51"	49"	85"	**2EWJ8**	50
3 mil	Clear	51"	49"	97"	**2EWJ6**	50
3 mil	Clear	55"	45"	73"	**2LCY7**	20
3 mil	Clear	55"	45"	85"	**2LCY8**	15
3 mil	Clear	55"	45"	97"	**2LCY9**	15
3 mil	Clear	68"	65"	87"	**2EWJ9**	50


Bar Handle Dispenser No. 5NVZ2


Rope Applicator No. 29PH62


Stand Up Bar Handle No. 2TKZ5


Reusable Mini Wrap Handle No. 5NVZ4


Orbital Dispenser No. 6MGV3


End Caps No. 29PH58

HIGHLIGHT INDUSTRIES, INC.

GA GRAINGER APPROVED

NELSON WRAP DISPENSER

Stretch Wrap Dispensers

These dispensers hold stretch wrap rolls, making it easier and quicker to manually apply stretch wrap to pallets and bundles.

Bar Handle Dispensers—Ergonomic handle and grip provide two-handed control when applying wrap. These dispensers are used with larger hand-grade stretch wrap, usually rolls 12" to 20" wide. Handles protect hands from sharp core material and reduce hand fatigue and strain.

Rope Applicators—These applicators apply wrap at full width and have an attachment that can be used to compress the full-width stretch wrap to the thickness of a rope. Stretch rope provides added stability over full-width wrap alone when bundling large or heavy loads.

Stand Up Bar Handles—Long handle allows workers to apply stretch wrap at the bottom of the pallet without stooping or bending at the waist or reaching up to wrap the top of tall pallets. They hold larger stretch wrap rolls, usually 12" to 20" wide.

Reusable Mini-Wrap Handles—Reusable handle and rotating mount allow workers to apply stretch wrap with one hand. The handle protects hands from the sharp edges of the core, reduces hand fatigue, and speeds application. Reusable mini-wrap handles are used with narrow stretch wrap rolls, generally 2" to 5" wide.

Orbital Bundler Dispensers—Manually-operated dispensers hold bundles off the ground while stretch wrap is applied vertically around the bundle. They can hold regular or irregularly shaped bundles. Arms can be adjusted vertically and horizontally to ensure bundles of different sizes are centered when wrapping.

End Caps—Caps are inserted into the stretch wrap roll core and protrude slightly from the core to provide a smooth surface that protects workers' hands from cuts and abrasions caused by sharp core edges. End caps can be removed and reused.

Minimum Roll Width	Maximum Roll Width	Overall Length	Fits Core Size	Dispenser Weight	Brand	Item No.
Bar Handle Dispensers						
6"	14"	18"	3"	60 lb.	Encore Packaging Corporation	**55KH53**
12"	18"	18"	3"	4 lb.	Highlight	**5A414**
12"	18"	25"	3"	5 lb.	GA	**9T562**
12"	20"	15"	3"	3 lb.	GA	**5NVZ1**
12"	20"	18"	3"	3 lb.	GA	**5NVZ2**
12"	20"	24"	3"	5 lb.	Encore	**29PH59**
12"	20"	24"	3"	7 lb.	Encore	**29PH60**
12"	20"	24"	3"	9 lb.	Encore	**29PH61**
Rope Applicators						
12"	20"	24"	3"	11 lb.	Encore	**29PH63**
12"	20"	24"	3"	12 lb.	Encore	**29PH62**
Stand Up Bar Handles						
11"	20"	60"	3"	3 lb.	Nelson Wrap Nwd	**2TKZ5**
Reusable Mini Wrap Handles						
2"	5"	8"	3"	1 lb.	GA	**5NVZ3**
2"	5"	7"	3"	1 lb.	GA	**5NVZ4**
Orbital Bundler Dispensers						
12"	18"	40"	3"	132 lb.	Highlight	**6MGV3**
End Caps						
Unlimited	Unlimited	5"	3"	1 lb.	GA	**4TZZ1**
Unlimited	Unlimited	3"	3"	1 lb.	Encore	**29PH58**
Unlimited	Unlimited	5"	3"	—	GA	**3UAX2**


No. 5NVZ6


No. 5NVZ5

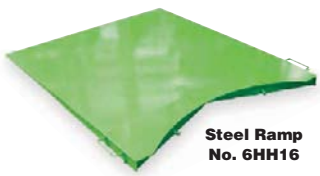
GA GRAINGER APPROVED ★ WESTWARD HIGHLIGHT INDUSTRIES, INC.

Stretch Film Cutters

Handheld cutters slice through stretch wrap, bubble rolls, paper, and twine from packages and bundles. They have a recessed blade that cuts long lengths without the stretch wrap jamming the blade. They are also used to cut wrapping from the roll or remove stretch wrap from a bundle.

Overall Length	Brand	Item No.
6.5"	GA	**5NVZ6**
7"	Westward	**4NZD9**
7.1"	GA	**5NVZ5**
8"	Highlight	**8PG33**


Stretch Wrap Turntable No. 3KB50


Steel Ramp No. 6HH16

Stretch Wrap Machine No. 3KB51

HIGHLIGHT INDUSTRIES, INC.

Stretch Wrap Machines, Turntables, and Ramps

Machines—Rotate the product and apply wrap in one operation, eliminating the need for workers to walk around a pallet, reducing worker fatigue, and freeing them up for other tasks. Use them on loading docks and in storage facilities to wrap pallets with uniform or irregular sides.

Turntables—Electric turntable holds the bundle and slowly rotates while workers stand in one place and hold the wrap. Use stretch wrap turntables on loading docks and in storage facilities to wrap pallets with uniform or irregular sides.

Ramps—Ramps allow operators to use a pallet jack to load heavy pallets onto stretch wrap machines and remove the pallet when wrapping is complete. The jack is pushed up the ramp, providing quick access to the machine table.

Motor HP	Max. Load Length	Max. Load Width	Max. Load Height	For Roll Width	Load Capacity	Current	Item No.
Stretch Wrap Machines							
Manual Machine							
½	52"	52"	80"	12" to 18"	4000 lb.	15A	**6HH17**
Semi-Automatic Machine							
¼	52"	52"	80"	20"	4000 lb.	15A	**3KB51**
¼	52"	52"	80"	20"	4000 lb.	15A	**6MGU9**
¼	52"	52"	110"	20"	4000 lb.	15A	**6MGU8**
Stretch Wrap Turntables							
Manual Machine							
¼	52"	52"	80"	12" to 18"	4000 lb.	15A	**3KB50**
¾	52"	52"	80"	12" to 18"	4000 lb.	15A	**6MGV1**
			L				Item No.
Steel Ramps							
			84⅝"				**6MGV0**
			55¾"				**6HH16**



Industrial Single Wound
No. 5URU6



Centerfold, PVC Heat Activated
No. 4LT30



PVC Shrink Tubing
No. 3ZKV2



PVC Shrink Bags
No. 3ZKX8



PVC Shrink Bands
No. 5URV0

GA GRAINGER APPROVED

Heat-Activated Shrink Wrap Films

Wrap tightly around items to keep them contained during transport or protected against weather. Film shrinks when exposed to heat. Use to protect small packages, loaded pallets, and dry docked boats. For use with heat guns or shrink tunnels, sold separately.

Industrial, Single-Wound Polyethylene Shrink Films—Waterproof, durable, and high puncture and tear resistant. Provides UV protection for up to 9 months. Shrink with propane heat gun, sold separately.

Centerfold Polyolefin Shrink Films—Polyolefin wrap is approved for direct food contact. It forms a skintight protective wrap over packages.

Centerfold PVC Shrink Films—Clear PVC has maximum shrink of 40%. This shrink film is economical for manual applications. It forms a skintight protective wrap over packages.

PVC Shrink Tubing—Provides crystal-clear, skintight wrap around contents. Makes bags of any length.

PVC Domed Shrink Bags—Domed feature provides extra space. Insert package into bag and seal open end.

PVC Shrink Bags—Insert package into bag and seal open end.

PVC Shrink Bands—Fit 4-, 8-, 12-, 16-, 24-, and 32-oz. deli pack containers with 4⅝"-dia. lid. Available clear or clear with red print that reads "Sealed for Your Protection." Preformed with round shape and built-in lip to quickly fit over container lids.

Roll Width	Roll Length	Color	Max. Shrink	Brand	Item No.
Industrial, Single Wound, Polyethylene Shrink Films					
7 mil Thickness					
20 ft.	100 ft.	White	30%TD, 30% MD	GA	**5URU6**
24 ft.	90 ft.	White	30%TD, 30% MD	GA	**5URU7**
Centerfold, Polyolefin Shrink Films					
0.75 mil Thickness					
10"	3500 ft.	Clear	40%TD, 40% MD	GA	**5URU0**
10"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ53**
12"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ54**
14"	3500 ft.	Clear	40%TD, 40% MD	GA	**5URU2**
14"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ55**
16"	3500 ft.	Clear	40%TD, 40% MD	GA	**5URU3**
16"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ56**
18"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ57**
22"	3500 ft.	Clear	40%TD, 40% MD	GA	**5URU5**
22"	3500 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ58**
0.6 mil Thickness					
10"	4350 ft.	Clear	40%TD, 40% MD	GA	**5URT4**
10"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ47**
12"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ48**
14"	4350 ft.	Clear	40%TD, 40% MD	GA	**5URT6**
14"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ49**
16"	4350 ft.	Clear	40%TD, 40% MD	GA	**5URT7**
16"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ50**
18"	4350 ft.	Clear	40%TD, 40% MD	GA	**5URT8**
18"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ51**
22"	4350 ft.	Clear	40%TD, 40% MD	GA	**5URT9**
22"	4375 ft.	Clear	65%TD, 65% MD	Gps Shrink Film	**45EJ52**
Centerfold, PVC Shrink Films					
0.75 mil Thickness					
10"	500 ft.	Clear	40%TD, 40% MD	GA	**3ZKX2**
10"	2000 ft.	Clear	40%TD, 40% MD	GA	**3ZKX3**
12"	500 ft.	Clear	40%TD, 40% MD	GA	**5ZZ34**
12"	2000 ft.	Clear	40%TD, 40% MD	GA	**5URR1**
14"	500 ft.	Clear	40%TD, 40% MD	GA	**3ZKX4**
14"	2000 ft.	Clear	40%TD, 40% MD	GA	**5URR2**
15"	500 ft.	Clear	40%TD, 40% MD	GA	**4LT30**
15"	2000 ft.	Clear	40%TD, 40% MD	GA	**4LT29**
16"	500 ft.	Clear	40%TD, 40% MD	GA	**5ZZ41**
16"	2000 ft.	Clear	40%TD, 40% MD	GA	**3ZKX6**
18"	500 ft.	Clear	40%TD, 40% MD	GA	**5ZZ44**
18"	2000 ft.	Clear	40%TD, 40% MD	GA	**3ZKX7**
22"	500 ft.	Clear	40%TD, 40% MD	GA	**5ZZ46**
22"	2000 ft.	Clear	40%TD, 40% MD	GA	**5URR3**
24"	500 ft.	Clear	40%TD, 40% MD	GA	**3ZKX5**
24"	2000 ft.	Clear	40%TD, 40% MD	GA	**5URR4**
1 mil Thickness					
10"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URR5**
12"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URR6**
14"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URR7**
15"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URR8**
16"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URR9**
18"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URT0**
22"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URT1**
26"	500 ft.	Clear	40%TD, 40% MD	GA	**4LT34**
26"	1500 ft.	Clear	40%TD, 40% MD	GA	**4LT33**
30"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URT2**
36"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URT3**
PVC Shrink Tubing					
1 mil Thickness					
3"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URK8**
4"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URK9**
6"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URL0**
8"	1500 ft.	Clear	40%TD, 40% MD	GA	**3ZKV3**
10"	1500 ft.	Clear	40%TD, 40% MD	GA	**3ZKV2**
18"	1500 ft.	Clear	40%TD, 40% MD	GA	**5URL3**

Width	Length	Color	Max. Shrink	Brand	Item No.	Pkg. Qty.
PVC Domed Shrink Bags						
1 mil Thickness						
18"	20"	Clear	40%TD, 40% MD	GA	**5URP3**	100
24"	24"	Clear	40%TD, 40% MD	GA	**5URP6**	100
26"	26"	Clear	40%TD, 40% MD	GA	**5URP7**	100
32"	29"	Clear	40%TD, 40% MD	GA	**5URR0**	50
PVC Shrink Bags						
0.8 mil Thickness						
6"	6"	Clear	40%TD, 40% MD	GA	**5URN6**	500
6½"	11"	Clear	40%TD, 40% MD	GA	**3ZKX8**	500
8"	12"	Clear	—	GA	**5ZZ55**	500
8"	14"	Clear	40%TD, 40% MD	GA	**5URN7**	100
9"	12"	Clear	40%TD, 40% MD	GA	**3ZKX9**	500
9"	14"	Clear	40%TD, 40% MD	GA	**5URN8**	500
12"	16"	Clear	40%TD, 40% MD	GA	**3ZKY1**	250
12"	18"	Clear	40%TD, 40% MD	GA	**5URP0**	250
PVC Shrink Bands						
25mm	192mm	Clear	40%TD, 10% MD	GA	**5URV0**	5000
25mm	192mm	Clear/Red Print	40%TD, 10% MD	GA	**5URV1**	5000



No. 13F520



No. 13F530

GA GRAINGER APPROVED

Heat-Activated Shrink-Wrap Systems

Feature a solid-state timer, special alloy heating element, film separator, film roll cradle, and heat gun. Also feature extra heating element and extra strip of lower PTFE tape.

MAINTENANCE KIT

Includes heating element, strip of lower PTFE tape, and 2-element cover tapes.

Sealing Capacity	Temp. Range	Voltage	Watts	L	W	H	Item No.	MAINTENANCE KIT Item No.
24.0"	600 to 1000°F	110VAC	1200	33½"	16"	12⅝"	**13F520**	—
32.0"	600 to 1000°F	110VAC	1200	45⅓"	16"	12⅝"	**13F522**	**13F530**

SIGNODE GA GRAINGER APPROVED

Standard Steel Strapping

Applied by hand, this strapping secures heavy loads with irregular or rough edges. **Standard-duty**, low-carbon steel strapping is for securing most moderate-to-heavy loads, such as heavy wooden crates. **High-tensile strapping** is used in the railroad industry. It is made of heat-treated high-carbon for use with heavy loads such as cement blocks, lumber, and machinery. **Portable standard-duty** is packaged on smaller rolls in a dispenser box. It is suitable for securing pipe and other quick strapping needs.



No. 5A419



No. 3XG72



No. 52YU47

Strapping Thickness	Break Strength	Strapping Length	Strapping Wind	Core Size	Brand	Item No.
Standard-Duty Steel Strapping						
½ in Strapping Width						
0.017"	1,275 lb	300 ft	Ribbon	½ in Dia	Signode	**5A419**
	1,275 lb	3,460 ft	Oscillated	3 in Dia	Signode	**3XG67**
0.02"	1,170 lb	3,087 ft	Oscillated	3 in Dia	Signode	**2CVC3**
	1,180 lb	2,942 ft	Oscillated	16 in Dia	GA	**3CTU2**
0.023"	1,350 lb	2,558 ft	Oscillated	16 in Dia	GA	**16P033**
⅝ in Strapping Width						
0.017"	1,625 lb	300 ft	Ribbon	¾ in Dia	Signode	**5A422**
	1,625 lb	2,770 ft	Oscillated	3 in Dia	Signode	**3XG68**
0.02"	1,460 lb	2,478 ft	Oscillated	3 in Dia	Signode	**2CVC4**
	1,470 lb	2,353 ft	Oscillated	16 in Dia	GA	**3CTU3**
0.023"	1,690 lb	2,046 ft	Oscillated	16 in Dia	GA	**16P034**
¾ in Strapping Width						
0.017"	1,900 lb	300 ft	Ribbon	⅝ in Dia	Signode	**5A425**
	1,900 lb	2,310 ft	Oscillated	16 in Dia	Signode	**3XG69**
0.02"	1,750 lb	2,058 ft	Oscillated	16 in Dia	Signode	**2CVC5**
	1,765 lb	1,961 ft	Oscillated	16 in Dia	GA	**3CTU4**
0.023"	1,950 lb	1,795 ft	Oscillated	3 in Dia	Signode	**5DVY1**
0.025"	2,770 lb	1,569 ft	Oscillated	16 in Dia	GA	**3CTU5**
0.029"	3,205 lb	1,330 ft	Oscillated	16 in Dia	GA	**3CTU6**
1 ¼ in Strapping Width						
0.029"	5,530 lb	811 ft	Ribbon	16 in Dia	GA	**3CTU7**
High-Tensile Steel Strapping						
½ in Strapping Width						
0.02"	1,525 lb	3,087 ft	Oscillated	3 in Dia	Signode	**3XG70**
⅝ in Strapping Width						
0.02"	1,900 lb	2,478 ft	Oscillated	3 in Dia	Signode	**3XG71**
¾ in Strapping Width						
0.02"	2,250 lb	2,060 ft	Oscillated	3 in Dia	Signode	**1ARZ7**
0.025"	2,800 lb	1,648 ft	Oscillated	3 in Dia	Signode	**3XG72**
0.029"	3,400 lb	1,428 ft	Oscillated	3 in Dia	Signode	**6AA21**
1 ¼ in Strapping Width						
0.029"	5,400 lb	891 ft	Ribbon	3 in Dia	Signode	**3XG74**
Portable Standard-Duty Steel Strapping						
⅜ in Strapping Width						
0.015"	665 lb	300 ft	Ribbon	2 in Dia	GA	**16P036**
½ in Strapping Width						
0.015"	890 lb	300 ft	Ribbon	2 in Dia	GA	**16P037**
0.017"	1,275 lb	300 ft	Ribbon	2 in Dia	GA	**52YU47**
0.02"	1,485 lb	300 ft	Ribbon	2 in Dia	GA	**16P041**
0.023"	1,350 lb	300 ft	Ribbon	2 in Dia	GA	**16P038**
⅝ in Strapping Width						
0.02"	1,855 lb	300 ft	Ribbon	2 in Dia	GA	**16P042**
¾ in Strapping Width						
0.025"	2,770 lb	300 ft	Ribbon	2 in Dia	GA	**3CTV2**

GA GRAINGER APPROVED SIGNODE

Seals for Steel Strapping

These high-grade galvanized steel seals are pinched tight around strapping ends to secure them in place. A tensioning tool is used to pull the strapping tight and a sealer tool compresses a seal to hold the strapping in place, see page 1420. **Open seals**, sometimes called snap-on or open flange seals, secure steel strapping around flat surfaces, such as boxes and pallets. They have an open face that is placed around the strapping during or after tensioning. **Pusher seals** secure steel strapping around round surfaces such as pipe and rebar. They are installed by threading the strapping through the seal.



No. 5A420



No. 5ZV46

Fits Strap Width	Seal Length	Seal Surface Type	Brand	Item No.	Pkg. Qty.
Open Seals					
High Tensile Seals					
¾"	1¾"	Flat	GA	**3CTV7**	500
1¼"	2¼"	Flat	GA	**3CTV8**	500
Regular Duty Seals					
⅜"	1⅛"	Flat	Signode	**5ZV43**	5000
½"	1⅛"	Flat	Signode	**5A420**	200
	1¼"	Flat	GA	**3CTV4**	200
⅝"	1"	Flat	Signode	**5ZV45**	5000
	1¼"	Flat	Signode	**5A423**	200
¾"	1¼"	Flat	GA	**3CTV6**	200
	1¼"	Flat	Signode	**5A426**	200
Pusher Seals					
High Tensile Seals					
¾"	1"	Round	Signode	**5ZV46**	4000
	2⅛"	Round	Signode	**5ZV48**	700
1¼"	2⅛"	Round	Signode	**5ZV47**	700
Regular Duty Seals					
½"	3/32"	Round	GA	**52YU63**	2500



No. 3CTW8

GA GRAINGER APPROVED SIGNODE

Steel Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal steel strapping. Wheeled strapping carts store and transport coils and tools around a facility. Tensioners pull strapping tight to ensure a secure fit, sealers apply seals to keep the straps from slipping, and cutters cut strapping to length.

Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Wind	Fits Core Size	Strapping Seal Type	Brand	Item No.
Cart, Tensioner, Sealer, Strapping, Cutter & Seals								
High Tensile								
½"	0.020"	1180 lb.	2942 ft.	Oscillated	16"	500 Open Seals	GA	**3CTX1**
½"	0.020"	1180 lb.	2942 ft.	Oscillated	16"	500 Pusher Seals	GA	**6LGD7**
¾"	0.020"	1765 lb.	1961 ft.	Oscillated	16"	500 Open Seals	GA	**3CUN5**
¾"	0.020"	1765 lb.	1961 ft.	Oscillated	16"	500 Pusher Seals	GA	**6LGD9**
⅝"	0.020"	1470 lb.	400 ft.	Oscillated	—	500 Open Seals	GA	**6LGE0**
⅝"	0.020"	1470 lb.	2353 ft.	Oscillated	16"	500 Open Seals	GA	**6LGD6**
Portable Strapping, Tensioner, Sealer, Cutter, Seals & Tool Box								
High Tensile								
½"	0.020"	1180 lb.	400 ft.	Oscillated	—	500 Open Seals	GA	**3CTW8**
¾"	0.020"	1765 lb.	400 ft.	Oscillated	—	500 Open Seals	GA	**3CTW9**

Fits Strap Width	Strapping Wind	Strapping Seal Type	Fits Core Size	Brand	Item No.
Cart, Tensioner, Sealer & Cutter					
High Tensile					
1¼"	Ribbon	Closed Seals	16"	Signode	**6BY67**
Standard					
½"	Oscillated	Open Seals	16"	Signode	**53YJ81**
⅝"	Oscillated	Open Seals	16"	Signode	**53YJ82**

Thickness	Fits Strap Width	Brand	Item No.
Tensioner, Sealer, Dispenser & Cutter			
0.035"	½"	GA	**66DK11**
	⅝"	GA	**66DK12**
	¾"	GA	**66DK14**

SIGNODE CARISTRAP GA GRAINGER APPROVED MIP Midwest Industrial Packaging

Strapping Carts

Carts secure coils through the core, so operators can pull strapping off the coil as needed. Wheels allow operators to move the carts around worksites. A brake stops the roll from turning or unwinding when not in use. A built-in bucket or tray holds tools and seals. **Plastic carts** hold polyester and polypropyene strapping coils. They are not compatible with steel or poly cord strapping coils. **Poly cord carts** are sized to hold poly cord strapping coils and are not compatible with steel, polyester, or polypropylene strapping coils. **Steel carts** hold core sizes and widths of steel strapping coils and are not compatible with plastic or poly cord strapping coils. **Plastic and Steel carts** feature an extension bar that holds wider cores than those generally found on steel strapping. They are for steel, polyester, and polypropylene strapping coils and are not compatible with poly cord strapping coils.



No. 2CVC1



No. 4BU76



No. 48UY02

Min. Strapping Width	Max. Strapping Width	Strapping Wind	Fits Core Size	Brand	Item No.
Strapping Carts for Plastic Strapping					
Standard Duty					
⅜"	¾"	Oscillated	16" dia.	Signode	**2CVC1**
7/16"	½"	Oscillated	6" dia.	Signode	**4BU78**
Strapping Cart for Poly Cord Strapping					
Standard Duty					
½"	1½"	Oscillated	3" dia.	Caristrap	**4DXA9**
Strapping Carts for Steel Strapping					
Standard Duty					
¼"	1"	Ribbon	16" dia.	GA	**6YPG1**
¼"	1½"	Ribbon	8" or 16" dia.	GA	**6YPG2**
⅜"	¾"	Oscillated	16" dia.	Signode	**4BU76**
¾"	1¼"	Ribbon	8" dia.	Signode	**4BU77**
Strapping Carts for Plastic and Steel Strapping					
Heavy Duty					
½"	1¼"	Oscillated	16" dia.	GA	**48UY02**
Standard Duty					
⅜"	¾"	Oscillated	16" dia.	Mip	**4CHV8**



MIP Midwest Industrial Packaging · GA GRAINGER APPROVED · HKP · SIGNODE

Cutter Tools for Steel Strapping

Cut off excess strapping to reduce the risk of injury caused by sharp edges. Strapping band cutters are used to cut steel and zinc-coated steel strapping to length, trim ends, and cut strapping free after it's been secured.

1-Handed—Use on light- to medium-duty strapping. One-handed operation keeps the opposite hand free.

2-Handed—Use with medium- to heavy-duty and high-tensile strength steel and zinc-coated steel strapping. Two-handed operation provides the extra power needed for quick cuts.

Fits Strap Width	Fits Strap Tensile	Overall Length	Tool Wt.	Brand	Item No.
1-Handed Cutter Tools					
Standard Duty					
⅜" to ¾"	.015 to .031	12"	3 lb.	Mip	**5ZW75**
Heavy Duty					
⅜" to 1¼"	.035	11¼"	2 lb.	GA	**3CTX4**
¾"	.035	9"	1 lb.	GA	**3CTX3**
¾"	.035	9"	1 lb.	Crescent H.K. Porter	**6A217**
1¼"	.035	12"	2 lb.	GA	**52YU76**
1¼"	.050	12"	2 lb.	Crescent H.K. Porter	**6A218**
2-Handed Cutter Tools					
Heavy Duty					
¾" to 2"	.015 to .050	24"	8 lb.	Mip	**5ZW77**
2"	.050	24"	6 lb.	GA	**52YU72**
2"	.050	24"	7 lb.	Crescent H.K. Porter	**6A219**
2"	.050	30"	8 lb.	Signode	**1ATA2**



GA GRAINGER APPROVED · SIGNODE · MIP Midwest Industrial Packaging · P&C Strapping Products Inc.

Combination Tools for Steel Strapping

These tools tension, seal, and cut steel and zinc-coated steel strapping in a single operation, eliminating the need to use different tools for each operation. They are used in medium- to high-volume applications to speed the processing and reduce operator fatigue over using separate tools to perform the same functions. Combination tools can be used on flat or round surfaces such as bundles and pipe.

Manual—Manually-operated tools can be brought to the work location and do not require an external power source or attachments, so are often used in applications where access to a power source is limited.

Pneumatic —Air-powered combination tools, are powered by a compressed air system. They speed the operation and reduce operator fatigue compared to manually-operated combination tools.

Fits Strap Width	Fits Strap Tensile	Tool Joint Type	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Combination Tools						
Feedwheel						
½" to ⅝"	1350 lb.	Sealless	Flat	8 lb.	GA	**52YU73**
Sealless						
½"	.023	3 Key Locking	Flat	8 lb.	Signode	**4NLJ7**
½"	.015 to .025	3 Key Locking	Flat	8 lb.	Mip	**16P173**
⅝"	.023	3 Key Locking	—	8 lb.	Signode	**4NLJ8**
⅝"	.015 to .025	3 Key Locking	Flat	8 lb.	Mip	**16P174**
¾"	.015 to .025	3 Key Locking	Flat	8 lb.	Mip	**16P175**
Pneumatic Combination Tools						
Pusher						
¾"	.025	Single Notch	Round	11 lb.	Signode	**3XH05**



GA GRAINGER APPROVED · MIP Midwest Industrial Packaging · SIGNODE

Sealer Tools for Steel Strapping

Crimp and secure strapping seals for steel and zinc-coated steel strapping. Strapping is wrapped around a bundle or package and tightened, then a seal is crimped in place using a sealer tool.

Manual—Use for low-volume applications or where access to an external power source is limited. They can be carried to the work location. The operator squeezes a lever to crimp and press the seal in place.

Pneumatic—Also called air-powered sealers, these tools connect to a compressed air system to automatically apply seals to steel strapping in medium-to-high volume applications. They can be used on flat and round surfaces, such as pallets and pipe, and are compatible with all seal sizes and strapping strengths.

Tool Action	Fits Strap Width	Fits Strap Tensile	Tool Seal Type	Tool Joint Type	Brand	Item No.
Manual Sealer Tools						
Standard Duty						
Front Action	⅜" to 1/32"	665 lb.	Open Seals	Double Down Notch	GA	**52YU53**
	½"	.015 to .023	Pusher Seals	Single Notch	Mip	**5ZW65**
	½"	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW62**
	½"	.023	Open Seals	Double Notch	Signode	**5A421**
	½"	.023	Open Seals	—	Signode	**3XG96**
	½" to 5/16"	1350 lb.	Open Seals	Double Down Notch	GA	**3CUN9**
	½" to ⅛"	1350 lb.	Pusher Seals	Single Up Notch	GA	**52YU66**
	⅝"	.015 to .023	Pusher Seals	Single Notch	Mip	**5ZW68**
	⅝"	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW64**
	⅝"	.023	Open Seals	Double Notch	Signode	**5A424**
	⅝"	.023	Open Seals	—	Signode	**3XG97**
	⅝" to 1/32"	1690 lb.	Open Seals	Double Down Notch	GA	**3CUP1**
	⅝"to 1/32"	1690 lb.	Pusher Seals	Single Up Notch	GA	**52YU67**
	¾"	.023	Open Seals	Double Notch	Signode	**5A427**
	¾"	.023	Open Seals	—	Signode	**5ZV49**
	¾" to 15/64"	2025 lb.	Pusher Seals	Single Up Notch	GA	**52YU68**
Heavy Duty						
Front Action	¾"	.015 to .023	Pusher Seals	Single Notch	Mip	**5ZW66**
	¾"	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW63**
	¾" to 5/16"	3205 lb.	Open Seals	Double Down Notch	GA	**3CUP2**
Side Action	¾"	.025 to .031	Snap On Seals	Double Notch	Mip	**5ZW80**
	¾"	.031	Pusher Seals	Double Notch	Signode	**3XG98**
	¾" to 23/64"	3205 lb.	Open Seals	Single Down Notch	GA	**52YU71**
	1¼"	.025 to .031	Snap On Seals	Double Notch	Mip	**5ZW79**
	1¼"	.031	Pusher Seals	Double Notch	Signode	**3XG99**
	1¼" to 23/64"	5530 lb.	Pusher Seals	Double Up Notch	GA	**52YU69**
	1¼" to 23/64"	5531 lb.	Open Seals	Single Down Notch	GA	**52YU70**
Pneumatic Sealer Tools						
Heavy Duty						
Front Action	¾"	.031	Pusher Seals	Single Notch	Signode	**1ARZ9**
	1¼"	.031	Pusher Seals	Single Notch	Signode	**1ATA1**

SIGNODE · GA GRAINGER APPROVED

Tensioner Tools for Steel Strapping

Pull the ends of the strapping to secure the strap around the bundle before sealing the ends together.

Manual—These tools can be brought to the work location and do not require an external power source or attachments. They are used for low-volume applications. The operator pushes a lever to tighten straps before a seal is applied using a sealing tool.

Pneumatic —Also called an air-powered tensioner, this tool connects to a compressed air system to secure the ends of steel strapping in medium- to high-volume strapping applications. The operator presses a button or squeezes a lever and the tool automatically tightens the steel strapping, speeding operation and reducing fatigue. It can be used on flat or round surfaces, including bundles and pipe.

Fits Strap Width	Fits Strap Tensile	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Tensioner Tools					
Standard Duty					
½" to ¾"	890 to 2025 lb.	Flat	7 lb.	GA	**3CUN7**
⅝" to ¾"	.035	Flat	5 lb.	Signode	**3XG89**
Heavy Duty					
⅜" to ¾"	.023	Flat		Signode	**3XG90**
⅜" to ¾"	.018 to .025	Flat	6 lb.	Encore	**49H258**
⅜" to ¾"	.023	Round	4 lb.	Signode	**3XG91**
¾" to 1¼"	.031	Flat	7 lb.	Signode	**3XG93**
¾" to 1¼"	.035	—	7 lb.	Signode	**3XG92**
Pneumatic Tensioner Tool					
Heavy Duty					
¾" to 1¼"	.044	Round	8 lb.	Signode	**3XH07**



CARISTRAP GA GRAINGER APPROVED

Poly Cord Strapping

Embedded cords provide more strength and higher resistance to shock and tearing than standard polyester. Poly cord is similar in strength to steel strapping but is more flexible. It does not scratch or mar surfaces and is more resistant to shock. It won't rust and withstands temperature changes when used outdoors. The ends are secured using a handle tie or sealed with a strapping buckle, seal, friction weld, or heat. Apply and seal using a strapping machine or manually-operated tools.



No. 4DWT9

Nonwoven—Light-duty strapping (sometimes called composite strapping) has embedded fibers along its length to resist snapping and tearing when securing lightweight boxes, papers, and magazines.

Woven—This nonmarring cord is used to secure heavier loads than nonwoven poly cord. Fibers run the length of the strapping and across the strapping to provide added strength and resistance to breaking. Use to secure bundles of brick, stone, and steel.

Break Strength	Overall Length	Color	Strapping Width	Core Width	Core Size	Coil Width	Brand	Item No.	Pkg. Qty.
Nonwoven Poly Cord Strapping									
Strap Width: ½ in Strap Width									
1,279 lb	3,623 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWT9**	2
Strap Width: ⅝ in Strap Width									
1,225 lb	1,960 ft	White	⅝ in	8 in	8 in Dia	8"	GA	**16P073**	1
1,627 lb	2,843 ft	Natural	⅝ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWU3**	2
Strap Width: ¾ in Strap Width									
1,400 lb	1,640 ft	White	¾ in	8 in	8 in Dia	8"	GA	**16P074**	1
1,830 lb	1,640 ft	Natural	¾ in	5 ½ in	3 in Dia	11½"	Caristrap	**4DWZ8**	2
2,130 lb	2,423 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWT7**	2
Strap Width: 1 in Strap Width									
2,811 lb	1,647 ft	Natural	1 in	5 ½ in	3 in Dia	16"	Caristrap	**4DWT8**	2
Strap Width: 1 ¼ in Strap Width									
3,527 lb	525 ft	Natural	1 ¼ in	1 ¼ in	3½ in Dia	18"	Caristrap	**4DXA1**	2
3,527 lb	1,082 ft	Natural	1 ¼ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWU8**	2
Strap Width: 1 ½ in Strap Width									
5,401 lb	892 ft	Natural	1 ½ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWU2**	2
Woven Poly Cord Strapping									
Strap Width: ¼ in Strap Width									
350 lb	7,800 ft	White	¼ in	6 in	4 in Dia	6"	GA	**40TP73**	1
Strap Width: ⅜ in Strap Width									
525 lb	5,250 ft	White	⅜ in	6 in	4 in Dia	6"	GA	**16P066**	1
Strap Width: ½ in Strap Width									
650 lb	1,500 ft	White	½ in	6 in	4 in Dia	6"	GA	**16P067**	1
700 lb	3,900 ft	White	½ in	6 in	4 in Dia	6"	GA	**16P068**	1
1,279 lb	3,624 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY4**	2
1,528 lb	3,085 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY5**	2
Strap Width: ⅝ in Strap Width									
850 lb	3,000 ft	White	⅝ in	6 in	4 in Dia	6"	GA	**16P069**	1
1,623 lb	2,910 ft	Natural	⅝ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY7**	2
Strap Width: ¾ in Strap Width									
1,050 lb	2,100 ft	White	¾ in	6 in	4 in Dia	6"	GA	**16P070**	1
1,830 lb	1,320 ft	White	¾ in	6 in	4 in Dia	5"	GA	**2CXP8**	1
1,830 lb	1,640 ft	Natural	¾ in	5 ½ in	3 in Dia	11½"	Caristrap	**4DWY2**	2
2,248 lb	2,056 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY9**	2
2,500 lb	250 ft	White	¾ in	6 in	3½ in Dia	6"	GA	**16P071**	1
3,450 lb	1,332 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWZ2**	2
Strap Width: 1 ¼ in Strap Width									
1,350 lb	600 ft	Tan	1 ¼ in	1 ¼ in	14¼ in Dia	1¼"	GA	**16P072**	1
3,285 lb	330 ft	White	1 ¼ in	1 ¼ in	—	1¼"	GA	**2CXP9**	1
3,527 lb	525 ft	Green	1 ¼ in	1 ¼ in	3½ in Dia	18"	Caristrap	**4DWZ3**	2
3,527 lb	1,083 ft	Green	1 ¼ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWZ5**	2
Strap Width: 1 ½ in Strap Width									
5,400 lb	479 ft	Blue	1 ½ in	1 ½ in	3½ in Dia	19½"	Caristrap	**4DWY6**	2

Buckles for Poly Cord Strapping

CARISTRAP GA GRAINGER APPROVED

Metal buckles maintain tension on poly cord strapping. Each end of the strapping is wrapped around the buckle and tightened using a tensioning tool. The buckles use strap tension to hold strapping in place and do not require sealing. They have a phosphated seal finish. **Standard-duty buckles** secure poly strapping in light-to-medium weight strapping applications. **Heavy-duty buckles** resist corrosion and secure poly strapping in medium- to heavy-duty applications, such as securing lumber, bricks, stone, metal, and pallets.

Fits Strap Width	Seal Inside Width	Seal Applic.	Brand	Item No.	Pkg. Qty.
Standard Duty Buckles					
⅝"	⅝ in	Regular Duty Tension	Caristrap	**4DXC8**	1000
¾"	¾ in	Regular to Heavy Duty Tension	Caristrap	**4DXC2**	1000
Heavy Duty Buckles					
¾"	¾ in	Heavy Duty Seals	GA	**2CXR1**	1000
¾"	¾ in	Extra Heavy, Special Duty Tension	Caristrap	**4DXC3**	500
1"	1 in	Special Duty Tension	Caristrap	**4DXC7**	200
1"	1 in	Heavy Duty Tension	Caristrap	**4DXC5**	500
1 ¼"	1 ¼ in	Heavy Duty Seals	GA	**2CXR2**	250
1 ¼"	1 ¼ in	Extra Heavy Duty Tension	Caristrap	**4DXC6**	250



No. 4DXC2



CARISTRAP GA GRAINGER APPROVED

Poly Cord Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal poly cord strapping. **Metal buckles** secure heavy products such as lumber, bricks, stone, or metal. **Plastic buckles** resist corrosion, won't scratch packages, and are ideal for bundles shipped using the U.S. Postal Service. **Strapping, tensioner, buckles, and tool box** kit lets your wrap strapping around a box, bundle, or item and then wrap each end of the strapping around the buckle. Pull the strapping tight using a tensioner. Buckles use strap tension to hold strapping in place and do not require sealing. Tool boxes hold and transport all necessary items.

Fits Strap Width	Thickness	Break Strength	Strapping Length	Core Dia.	Color	Coil Width	Brand	Item No.
Strapping and Metal Buckles								
½"	29.9 mil	1279 lb.	820 ft.	3"	Natural	13½"	Caristrap	**4DWX5**
½"	32.2 mil	1276 lb.	820 ft.	3"	Natural	13½"	Caristrap	**4DWX3**
⅝"	29.9 mil	1623 lb.	820 ft.	3"	Natural	13½"	Caristrap	**4DWX6**
⅝"	32.2 mil	1623 lb.	820 ft.	3"	Natural	13½"	Caristrap	**4DWX4**
Standard								
½"	0.018"	300 lb.	17 ft.	—	Black	—	GA	**16P025**
Strapping and Plastic Buckles								
Standard								
½"	0.018"	300 lb.	17 ft.	—	White	—	GA	**16P026**
Strapping, Tensioner, Buckles and Tool Box								
¾"	29.9 mil	1830 lb.	1640 ft.	3"	Natural	11½"	Caristrap	**4DXD4**
High Tensile								
¾"	0.050"	2500 lb.	250 ft.	3½"	Orange	6"	GA	**3CUN6**



TEKNIKA STRAPPING SYSTEMS GA GRAINGER APPROVED CARISTRAP MIP Midwest Industrial Packaging ORGAPACK

Tools for Poly Cord Strapping

Tension and cut strapping after it has been threaded through a buckle. Correct tensioning ensures bundles or packages stay secure. **Manual tools** can be carried to a work location. They do not require an external power source or attachments, so are often used in low-volume applications where access to a power source is limited. **Battery tool** is rechargeable and easily moved around a worksite. **Pneumatic tool** speeds processing and reduces fatigue compared to manual tools when used in medium-to-high volume settings.

Fits Strap Width	Fits Strap Tensile	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Tools					
Standard Duty					
½" to ¾"	.020 to .031	Flat	3 lb.	Mip	**5ZW81**
	.020 to .040	Flat	5 lb.	Mip	**5ZW82**
Up to ¾"	2811 ft.-lb.	Flat	3 lb.	Caristrap	**4DXA4**
Heavy Duty					
½" to ¾"	.070	Flat	4 lb.	Teknika	**49NT97**
½" to 1½"	5400 lb.	Flat	6 lb.	GA	**2CXR3**
¾" to 1⅝"	.080	Flat	7 lb.	Teknika	**49NT98**
¾" to 2"	.160	Flat	12 lb.	Teknika	**49NT99**
Up to 1½"	5400 ft.-lb.	Flat	4 lb.	Caristrap	**4DXA6**
	5400 ft.-lb.	Round	5 lb.	Caristrap	**4DXA7**
Battery Tool					
Standard Duty					
½" to ¾"	.040	—	13 lb.	Orgapack	**55NV92**
Pneumatic Tool					
Heavy Duty					
¾" to 1½"	5400 lb.	Flat	10 lb.	Caristrap	**4DXA8**

GRAINGER APPROVED



No. 33RZ08



No. 33RZ01

Polyester Strapping

These coils secure lumber, heavy pallets, and other medium-to-large loads for storage and shipment. Polyester construction is noncorrosive so it will not damage surfaces. It is a safer alternative to steel and is more rigid and stretches less than polypropylene strapping, allowing it to retain tension over time. Polyester strapping is stronger than polypropylene strapping, but has less overall strength than stainless steel strapping. Apply strapping using manually-operated strapping tools or a strapping machine.

Hand-Grade—Manually apply to lumber, heavy pallets, and other medium-to-large loads. This strapping is generally used in low-to-moderate volume applications. It is secured using tensioning tools, seals, and sealers.

Machine-Grade—This strapping does not require seals. Automatic strapping machines are used in moderate-to-high volume applications.

Strapping Width	Thickness	Break Strength	Overall Length	Color	Core Size	Coil Width	Item No.
Hand Grade Polyester Strapping							
Standard Duty							
7/16"	0.0210"	500 lb.	300 ft.	Green	—	1"	33RZ07
1/2"	0.0200"	600 lb.	3600 ft.	Black	16" dia.	3"	2CXK5
	0.0250"	775 lb.	2900 ft.	Black	16" dia.	3"	2CXK8
	0.0280"	820 lb.	300 ft.	Green	—	1"	33RZ08
	0.0280"	825 lb.	300 ft.	Green	1" dia.	1/2"	6LGA7
5/8"	0.0300"	1100 lb.	300 ft.	Green	1" dia.	5/8"	6LGA9
	0.0300"	1100 lb.	1800 ft.	Black	16" dia.	3"	2CXL1
Heavy Duty							
5/8"	0.0500"	1400 lb.	300 ft.	Green	—	1"	33RZ09
3/4"	0.0350"	2500 lb.	200 ft.	Green	—	1"	33RZ10
Machine Grade Polyester Strapping							
Standard Duty							
7/16"	0.0210"	460 lb.	11,550 ft.	Green	16" dia.	6"	33RZ18
1/2"	0.0180"	500 lb.	10,500 ft.	Green	16" dia.	6"	33RZ20
	0.0200"	600 lb.	7200 ft.	Black	16" dia.	6"	2CXK4
	0.0200"	600 lb.	7200 ft.	Green	16" dia.	6"	2CXK3
	0.0210"	600 lb.	9000 ft.	Green	16" dia.	6"	16P050
	0.0250"	650 lb.	7200 ft.	Green	16" dia.	6"	5JPR3
	0.0250"	775 lb.	5800 ft.	Black	16" dia.	6"	2CXK7
	0.0250"	775 lb.	5800 ft.	Green	16" dia.	6"	2CXK6
	0.0280"	820 lb.	6500 ft.	Green	16" dia.	6"	33RZ01
5/8"	0.0250"	900 lb.	4400 ft.	Black	16" dia.	6"	16P052
	0.0250"	900 lb.	4400 ft.	Green	16" dia.	6"	16P053
	0.0300"	1100 lb.	3600 ft.	Black	16" dia.	6"	2CXK9
	0.0300"	1100 lb.	3600 ft.	Green	16" dia.	6"	33RZ14
Heavy Duty							
5/8"	0.0350"	1300 lb.	4000 ft.	Black	16" dia.	6"	33RZ13
	0.0350"	1400 lb.	4000 ft.	Black	16" dia.	6"	16P055
	0.0350"	1400 lb.	4000 ft.	Green	16" dia.	6"	2CXL2
	0.0350"	1400 lb.	4000 ft.	Green	16" dia.	6"	16P054
	0.0350"	1400 lb.	4000 ft.	Green	16" dia.	6"	33RZ19
	0.0400"	1500 lb.	4000 ft.	Green	16" dia.	6"	5JPR5
	0.0400"	1600 lb.	4000 ft.	Black	16" dia.	6"	16P057
	0.0400"	1600 lb.	4000 ft.	Black	16" dia.	16"	41P109
	0.0400"	1600 lb.	4000 ft.	Green	16" dia.	6"	5JPR1
	0.0400"	1600 lb.	4999 ft.	Green	16" dia.	6"	16P056
3/4"	0.0400"	1800 lb.	3000 ft.	Green	16" dia.	6"	5JPR6
	0.0400"	1900 lb.	3000 ft.	Black	16" dia.	6"	3HJZ5
	0.0400"	1900 lb.	3000 ft.	Green	16" dia.	6"	5JPR2
	0.0500"	2500 lb.	2400 ft.	Green	16" dia.	6"	33RZ04
1"	0.0400"	2500 lb.	2200 ft.	Green	16" dia.	6"	16P060

SIGNODE

GRAINGER APPROVED MIP Midwest Industrial Packaging

Seals for Polyester Strapping

A textured surface grips the smooth polyester surface to prevent the strapping from slipping and losing tension. Secure seals using a manual strapping sealer.

Open—These seals secure polyester strapping on flat surfaces. They are placed over the strapping during or after tensioning and can be used where high-tensile strength is needed.

Gripper—Sometimes called serrated seals, these gripper-style seals have barbs that grip the polyester strapping. They are secured in place using a sealer tool.



No. 2MPX8



No. 2CXP5

Strap Width	Seal Length	Brand	Item No.	Pkg. Qty.
Open Seals				
Regular Duty Seals				
1/2"	3/4"	Signode	3A133	500
5/8"	1 1/2"	Signode	6BY60	1000
3/4"	2 1/8"	Signode	2MPX8	1000
Gripper Seals				
Heavy Duty Seals				
1/2"	1 13/64"	GA	2CXP5	1000
5/8"	1 13/64"	GA	2CXP6	1000
3/4"	1 1/4"	GA	16P031	250
3/4"	1 1/4"	GA	40TP76	1000
3/4"	1 1/4"	Mip	16P176	1000



No. 16P170



No. 16P077

SIGNODE

MIP Midwest Industrial Packaging

GRAINGER APPROVED

Sealer Tools for Polyester Strapping

These manually-operated tools apply pressure to crimp and secure strapping seals to polyester strapping.

Standard-Duty—These tools have shorter handles and apply less pressure than heavy-duty sealer tools. They crimp and secure strapping standard-duty seals.

Heavy-Duty—Longer handles for the pressure required when working with heavy-duty strapping and seals. They crimp standard and heavy seals.

Fits Strap Width	Fits Strap Tensile	Overall Length	Handle Length	Tool Joint Type	Brand	Item No.
Standard-Duty						
1/2"	.020	—	—	Crimp	Signode	3A124
1/2"	.028 to .050	19"	17"	Serrated Crimp	MIP	16P170
1/2" to 5/16"	600 to 820 lb.	19 1/2"	17"	Crimp	GA	2CXN5
5/8"	.028 to .050	21"	17"	Serrated Crimp	MIP	16P171
Heavy-Duty						
5/8" to 13/32"	750 to 1100 lb.	19 1/2"	17"	Crimp	GA	2CXN6
3/4"	.028 to .050	19"	17"	Serrated Crimp	MIP	16P172
3/4"	1900 to 2500 lb.	19 1/2"	17"	Crimp	GA	40TP77
3/4" to 13/32"	1100 to 1900 lb.	23"	20"	Crimp	GA	16P077

GRAINGER APPROVED

SIGNODE



Manual Tensioner Tools for Polyester Strapping

- Flat seal surface type

Tighten the strapping before securing it using a seal and sealing tool. Correct tensioning prevents damage caused by over tensioning, and keeps bundles and packages secure.



No. 49H257



No. 9ADJ5

Tensioner Type	Fits Strap Width	Fits Strap Tensile	Seal Surface Type	Tool Wt.	Brand	Item No.
Regular Duty						
—	1/2"	.020	Flat	1 lb.	Signode	3A083
Feedwheel Tensioner	1/2"	.020	Flat	4 lb.	Signode	3XG94
Windlass Tensioner	1/2" to 3/4"	.015 to .050	Flat	5 lb.	Encore	49H257
Windlass Tensioner	1/2" to 5/8"	.040	Flat	—	Signode	4FKW5
Windlass Tensioner	5/8" to 3/4"	.050	Flat	9 lb.	Signode	4FKW6
Heavy Duty						
Windlass Tensioner	1/2" to 3/4"	1900 lb.	Flat	4 lb.	GA	9ADJ5

SIGNODE

PAC Strapping Products Inc.

FROMM PACKAGING SYSTEMS



No. 196ZF3



No. 16P078

Combination Tools for Polyester Strapping

- Friction weld joint type

Tension, seal, and cut strapping in a single operation, eliminating the need to use a different tool for each operation. Combination tools can be used on flat or round surfaces, and are used in medium-to-high volume applications.

Battery—A rechargeable battery allows the tool to be easily moved around a worksite. One-hand operation with no need for external attachments or power sources.

Pneumatic—Also called air-powered combination tools, these pneumatic tools are powered by a compressed air system. They can be operated with one hand.

Fits Strap Width	Fits Strap Tensile	Tool Tension Capacity	Battery Voltage	Pressure	Brand	Item No.
Battery Combination Tools						
1/2", 5/8"	—	550 lb.	18V	—	Signode	429T82
5/8"	.023 to .053	880 lb.	18V	—	Pac Strapping	196ZF3
5/8", 3/4"	—	900 lb.	18V	—	Signode	429T83
3/4"	.042 to .053	900 lb.	18V	—	Fromm	45HY87
3/4"	.047 to .060	1575 lb.	36V	—	Pac Strapping	40TP70
Pneumatic Combination Tools						
3/8"	.020 to .035	450 lb.	—	70 to 99 psi	Pac Strapping	40TP65
3/8" to 1/2"	.025	180 lb.	—	—	Signode	16W206
5/8"	.035	800 lb.	—	85 to 90 psi	Signode	6ZGA4
5/8"	.040 to .055	1250 lb.	—	70 to 99 psi	Pac Strapping	40TP53
1" to 1 1/4"	.040 to .055	1280 lb.	—	70 to 99 psi	Pac Strapping	16P078


No. 2CXH1


No. 2CXJ1



GA GRAINGER APPROVED SIGNODE®

Polypropylene Strapping

Sometimes called poly strapping, these lightweight bands are used to bundle newspapers, seal and bundle cartons, and secure light loads. The embossed surface makes the strapping flexible so it's easier to bend around edges and irregular shapes.

Hand-Grade—Secure using hand-operated tensioning tools, seals, and sealers. Generally used in low-to-moderate volume applications.

Machine-Grade—Applied using a strapping machine, these bands do not require seals. Strapping machines are used in moderate-to-high volume applications.

Strapping Width	Thickness	Break Strength	Overall Length	Color	Core Size	Coil Width	Brand	Item No.	Pkg. Qty.
Hand-Grade Polypropylene Strapping									
Standard-Duty									
7/16"	0.0230"	500 lb.	300 ft.	Black	1" dia.	7/16"	GA	**6LFZ4**	1
½"	0.0180"	300 lb.	4500 ft.	Black	16" dia.	3"	GA	**2CXG9**	1
	0.0180"	300 lb.	9000 ft.	Black	8" dia.	8"	GA	**6LGA0**	1
	0.0180"	300 lb.	9000 ft.	Black	16" dia.	6"	GA	**2CXH1**	1
	0.0220"	400 lb.	9000 ft.	Black	8" dia.	8"	GA	**6LFZ8**	1
	0.0220"	400 lb.	9000 ft.	Black	16" dia.	6"	GA	**6LFZ7**	1
	0.0220"	500 lb.	300 ft.	Black	1" dia.	½"	GA	**6LFZ5**	1
	0.0260"	500 lb.	3600 ft.	Black	16" dia.	3"	GA	**2CXH2**	1
	0.0260"	500 lb.	7200 ft.	Black	8" dia.	8"	GA	**6LGA1**	1
	0.0260"	500 lb.	7200 ft.	Black	16" dia.	6"	GA	**2CXH3**	1
	0.0260"	600 lb.	300 ft.	Black	1" dia.	½"	GA	**6LFZ6**	1
	0.0300"	600 lb.	3600 ft.	Black	16" dia.	3"	GA	**2CXH4**	1
	0.0300"	600 lb.	7200 ft.	Black	8" dia.	8"	GA	**6LGA2**	1
	0.0300"	600 lb.	7200 ft.	Black	16" dia.	6"	GA	**2CXH5**	1
	0.0370"	750 lb.	5575 ft.	Black	16" dia.	6"	GA	**6LGA3**	1
⅝"	0.0280"	700 lb.	3000 ft.	Black	16" dia.	3"	GA	**2CXH6**	1
	0.0280"	700 lb.	6000 ft.	Black	16" dia.	6"	GA	**2CXH7**	1
Heavy-Duty									
⅝"	0.0320"	1000 lb.	3500 ft.	Black	6" dia.	16"	GA	**41P038**	24
	0.0330"	1000 lb.	2200 ft.	Black	16" dia.	3"	GA	**16P049**	1
	0.0330"	1000 lb.	3500 ft.	Black	16" dia.	6"	GA	**16P048**	1
¾"	0.0330"	1000 lb.	2200 ft.	Black	16" dia.	3"	GA	**6LGA6**	1
	0.0330"	1000 lb.	4500 ft.	Black	8" dia.	8"	GA	**6LGA5**	1
	0.0330"	1000 lb.	4500 ft.	Black	16" dia.	6"	GA	**6LGA4**	1
Machine-Grade Polypropylene Strapping									
Standard-Duty									
3/16"	0.0120"	100 lb.	30,000 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**4AYT7**	1
¼"	0.0120"	150 lb.	24,000 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**4AYT8**	1
	0.0160"	200 lb.	18,000 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**2MPV9**	1
	0.0160"	200 lb.	18,000 ft.	Yellow	7⅛" dia.	7 13/16"	Signode	**3XG63**	1
	0.0240"	200 lb.	18,000 ft.	Clear	8" dia.	8"	GA	**6LGC7**	1
	0.0240"	200 lb.	18,000 ft.	White	8" dia.	8"	GA	**6LGC8**	1
⅜"	0.0130"	225 lb.	16,000 ft.	Black	7⅛" dia.	7 13/16"	Signode	**4AYU1**	1
	0.0130"	225 lb.	16,000 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**4AYT9**	1
	0.0160"	300 lb.	12,000 ft.	Black	7⅛" dia.	7 13/16"	Signode	**3XG64**	1
	0.0160"	300 lb.	12,000 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**2MPW1**	1
	0.0220"	300 lb.	12,900 ft.	White	8" dia.	8"	GA	**2CXH8**	1
	0.0220"	300 lb.	12,900 ft.	White	9" dia.	8"	GA	**2CXH9**	1
	0.0240"	250 lb.	12,900 ft.	White	8" dia.	8"	Signode	**4PU41**	1
7/16"	0.0200"	400 lb.	10,500 ft.	Black	16" dia.	6"	GA	**2CXJ5**	1
	0.0200"	400 lb.	12,000 ft.	Clear	16" dia.	6"	Signode	**2MPW4**	1
	0.0230"	500 lb.	7500 ft.	Black	7⅛" dia.	7 13/16"	Signode	**3XG65**	1
	0.0230"	500 lb.	7500 ft.	Clear	7⅛" dia.	7 13/16"	Signode	**2MPW2**	1
	0.0230"	500 lb.	9000 ft.	Black	16" dia.	6"	GA	**2CXJ8**	1
	0.0250"	500 lb.	8000 ft.	Black	16" dia.	6"	GA	**2CXJ6**	1
½"	0.0220"	500 lb.	8000 ft.	Black	16" dia.	6"	GA	**33RZ21**	1
	0.0240"	325 lb.	9900 ft.	White	8" dia.	8"	GA	**2CXJ1**	1
	0.0240"	325 lb.	9900 ft.	White	8" dia.	8"	Signode	**6BY59**	1
	0.0240"	325 lb.	9900 ft.	White	9" dia.	8"	GA	**2CXJ2**	1
	0.0260"	600 lb.	7000 ft.	Black	16" dia.	6"	GA	**33RZ03**	1
	0.0280"	500 lb.	7200 ft.	White	8" dia.	8"	GA	**2CXJ3**	1
	0.0300"	600 lb.	6000 ft.	Black	8" dia.	8"	GA	**6LGC9**	1
	0.0330"	650 lb.	7200 ft.	Black	16" dia.	6"	GA	**6LGD0**	1


No. 52YU54


No. 2CXN2

GA GRAINGER APPROVED

Manual Tensioner Tools for Polypropylene Strapping

- Standard-duty seals
- Flat seal surface

Correct tensioning ensures bundles or packages are secure during shipping or storage, and help prevent over tensioning that can damage boxes and contents.

Tensioner Type	Fits Strap Width	Fits Strap Tensile	Tool Wt.	Item No.
—	½" to ¾"	300 to 1000 lb.	2 lb.	**52YU54**
Windlass Tensioner	½" to ¾"	300 to 1000 lb.	3 lb.	**2CXN2**


No. 2CXN3

GA GRAINGER APPROVED

Sealer Tools for Polypropylene Strapping

Apply pressure to crimp and secure strapping seals to polypropylene strapping.

Standard-Duty—These tools have shorter handles than heavy-duty sealer tools and they apply less pressure.

Heavy-Duty—With longer handles than standard-duty, these tools can apply greater pressure required when working with heavy-duty strapping and seals. They are used to crimp standard and heavy-duty polyester strapping and seals.

Fits Strap Width	Fits Strap Tensile	Overall Length	Handle Length	Tool Joint Type	Item No.
Standard-Duty					
½"	300 to 750 lb.	17"	14"	Crimp	**2CXN3**
⅝"	800 to 1000 lb.	17"	14"	Crimp	**2CXN4**
Heavy-Duty					
½"	300 to 750 lb.	19½"	17"	Crimp	**52YU55**
⅝"	800 to 1000 lb.	19½"	17"	Crimp	**52YU56**

GA GRAINGER APPROVED

Seals and Buckles for Polypropylene Strapping

- Regular-duty seals
- Flat seal surface

Apply to overlapping strap ends to maintain tension and keep the strapping from slipping.

Open Seals—Secure poly strapping on flat surfaces using a manually-operated sealing tool. Seals are placed over the strapping during or after tensioning and can be used where high-tensile strength is needed.

Buckles—Strapping is threaded around the buckle and pulled tight. Buckles are held in place with the tension on the strap and do not require special tools to ensure a secure fit.


No. 2CXP3


No. 16P027

Fits Strap Width	Seal Thickness	Material	Seal Length	Item No.	Pkg. Qty.
Open Seals					
½"	¼"	Steel	1¼"	**2CXP3**	1000
⅝"	¼"	Steel	1¼"	**2CXP4**	1000
¾"	5/16"	Steel	1¼"	**16P030**	250
Buckles					
⅜"	59/64"	Steel	—	**2JFF2**	1000
½" to ⅝"	—	Plastic	—	**16P029**	250
½"	⅛"	Steel	—	**2CXP2**	1000
½"	7/64"	Steel	—	**2CXP1**	1000
⅝"	⅛"	Steel	—	**16P027**	250
¾"	⅛"	Steel	—	**16P028**	250



Arch
No. 6LGD1



Arch
No. 2CXN1



Tabletop
No. 1ATA5



Tabletop
No. 2CXL8

PAC Strapping Products Inc. SIGNODE

Semi-Automatic Strapping Machines

Used to tension and heat-seal plastic strapping in medium- to high-volume shipping applications, such as loading docks and fulfillment centers. These machines require the operator to feed the strapping around the package. They speed processing and reduce operator fatigue by eliminating the need for workers to manually tension and seal strapping.

Overall Length	Overall Width	Overall Height	Max. Package Size	Fits Strap Width	Brand	Item No.
Arch						
48"	25½"	59¼"	25" W x 19" H	5mm, 6mm, 9mm, 12mm	Pac Strapping	**6LGD1**
48"	25½"	59¼"	25" W x 19" H	5mm, 6mm, 9mm, 12mm	Pac Strapping	**5JPP9**
56"	25½"	63¼"	25" W x 23" H	5mm, 6mm, 9mm, 12mm	Pac Strapping	**6LGD2**
56"	25½"	63¼"	25" W x 23" H	5mm, 6mm, 9mm, 12mm	Pac Strapping	**6LGD3**
56¼"	27⅜"	60⅔"	33½" W x 23½" H	⅜", ½"	Pac Strapping	**2CXN1**
57½"	24½"	61"	32" L x 30" W	5mm, 6mm, 9mm, 12mm	Pac Strapping	**40TP46**
57½"	24½"	61"	32" L x 30" W	5mm, 6mm, 9mm, 12mm	Pac Strapping	**40TP48**
57½"	24½"	61"	32" L x 30" W	5mm, 6mm, 9mm, 12mm	Pac Strapping	**40TP51**
Tabletop						
33½"	22"	37½"	Unlimited	¼" to ½"	Signode	**5Z093**
33½"	22"	37½"	Unlimited	¼" to ½"	Pac Strapping	**2CXL9**
34"	22"	30¼"	Unlimited	¼" to ½"	Signode	**1ATA5**
35"	23"	30"	Unlimited	¼" to ½"	Pac Strapping	**2CXL8**

GA GRAINGER APPROVED

Edge and Corner Protectors

Steel and plastic protectors feature raised edges to hold strapping firmly in place.



No. 4FEU3



No. 5JPP6

W	L	Thickness	Color	Item No.	Pkg. Qty.
Steel					
3"	2"	0.107"	Silver	**4FEU3**	500
High Density Polyethelyene					
2"	24"	⅛"	Black	**5JPP6**	50
	34"	⅛"	Black	**5JPP7**	50
	42"	⅛"	Black	**5JPP8**	50
Plastic					
1¼"	2"	0.094"	White	**5A431**	2000
1⅜"	1"	0.170"	White	**2CXP7**	2000
2½"	1¾"	0.170"	Black	**4FET8**	1000
	2"	0.170"	White	**4FET7**	1000
	6"	0.170"	White	**4FEU2**	500
5¼"	2"	0.170"	Black	**4FET9**	200
	2"	0.170"	White	**4FEU1**	250

No. 5A431



No. 4TZX6

W	L	Thickness	Color	Item No.	Pkg. Qty.
Recycled Paperboard					
2"	3"	0.16"	White	**4TZY7**	200
	3"	0.16"	White	**4TZY6**	1080
	48"	0.16"	White	**4TZX7**	10
2½"	24"	0.225"	White	**4TZX6**	10
	36"	0.225"	White	**4TZX8**	10
3"	3"	0.16"	White	**4TZY9**	100
	3"	0.16"	White	**4TZY8**	200
	24"	0.16"	White	**4TZX9**	10
	24"	0.225"	White	**4TZY1**	10
	36"	0.16"	White	**4TZY2**	10
	36"	0.225"	White	**4TZY3**	10
	48"	0.16"	White	**4TZY4**	10
	48"	0.225"	White	**4TZY5**	10

GA GRAINGER APPROVED

No Stack Cone

Corrugated cone attaches to the top of a shipment with packing straps as a notification that the pallet will not tolerate the weight of stacking.

H	L	W	Item No.	Pkg. Qty.
10"	8"	8"	**3EXF8**	100



GA GRAINGER APPROVED

Polyester Strapping Kits

Set up a new workstation for polyester strapping complete with a wheeled cart, strapping, tensioner, and compatible seals and sealer. These items work together to perform all the tasks required to strap and secure polyester strapping. It is noncorrosive so it will not damage surfaces, and can be used to secure lumber, heavy pallets, and other medium-to-heavy loads.



No. 2CXL6

Kit Applications	Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Seal Type	Item No.
High Tensile	½"	0.025"	775 lb.	5800 ft.	500 Gripper Seals	**2CXL6**
High Tensile	⅝"	0.035"	1400 lb.	4000 ft.	500 Gripper Seals	**2CXL7**
Standard	½"	0.026"	500 lb.	3600 ft.	500 Open Seals	**2CXL5**

GA GRAINGER APPROVED SIGNODE

Polypropylene Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal polypropylene strapping. Polypropylene strapping, sometimes called poly strapping, is a lightweight strap used to bundle newspapers, seal and bundle cartons, and secure light loads. The embossed surface makes the strapping flexible to make it easier to bend the strapping around edges and irregular shapes.

Strapping, Tensioner, and Buckles— Strapping is wrapped around a bundle and tightened with a tensioner tool. The ends of the strapping are wrapped around the buckle and tightened manually.

Strapping, Tensioner, Sealer, and Seals— These items work together to perform all the tasks required to strap and secure strapping. Pull the strapping tight using a tensioner, then use a sealing tool to secure a seal that ensures strapping does not come loose.

Strapping and Seals—Lightweight strap is used to bundle newspapers, seal and bundle cartons, and secure light loads. Seals secure strapping to maintain correct tension.

Strapping and Buckles—These kits can be used to replenish supplies at workstations and on strapping carts, or can be used independently of carts and workstations. The buckles are secured manually, without the need of a sealing tool.



No. 2CXL3



No. 16P044



No. 16P046



No. 3A082

Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Seal Type	Brand	Item No.
Strapping, Tensioner, and Buckles						
½"	0.018"	300 lb.	3000 ft.	300 Buckles	GA	**2CXL3**
½"	0.022"	400 lb.	9000 ft.	1,000 Buckles	GA	**16P045**
Strapping, Tensioner, Sealer, and Seals						
½"	0.022"	300 lb.	9000 ft.	1,000 Open Seals	GA	**16P044**
½"	0.022"	500 lb.	7200 ft.	1,000 Open Seals	GA	**2CXL4**
Strapping and Seals						
½"	0.022"	300 lb.	9000 ft.	500 Open Seals	GA	**16P046**
½"	0.026"	500 lb.	7200 ft.	1,000 Open Seals	GA	**16P047**
Strapping and Buckles						
½"	0.018"	300 lb.	250 ft.	40 Wire Buckles	Signode	**5A430**
½"	0.022"	400 lb.	2500 ft.	425 Wire Buckles	Signode	**3A082**

Platform Bench Scales

OHAUS MEASURETEK

- LCD

More scales are available online, see Grainger.com®.

Defender™ 3000—Application modes include weighing and parts counting. Ideal for production, warehouse, shipping, and receiving areas. Indicator can be wall, column, or tabletop mounted. Include stainless steel pan with painted carbon steel frame, IP67 load cell, and bi-directional RS232. Operate on AC adapter or 100-hr. internal rechargeable battery. Weigh in kg, g, lb., oz., lb.:oz.

MeasureTek—Applications include weighing, counting, checkweighing, percent weighing, accumulation, and hold modes. Ideal for general weighing and simple counting applications in production, packaging, warehouse, inventory, shipping and receiving areas. Rigid powder-coated steel base includes stainless steel platter and pole. Also feature large LCD and blue backlight. USB / RS232 interface and cables for communication with a PC.



Defender™ 3000
No. 1UXK9



MeasureTek
No. 12R963

Capacity	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
Defender™ 3000							
30kg/60 lb.	0.005kg/5g/0.01 lb.	14 13⁄16 in	12 in	23"	Ohaus	83998111	**1UXK5**
60kg/150 lb.	0.01kg/10g/0.02 lb.	14 13⁄16 in	12 in	23"	Ohaus	D31P60BR	**1UXK6**
60kg/150 lb.	0.01kg/10g/0.02 lb.	21 5⁄8 in	16 1⁄2 in	36"	Ohaus	D31P60BL	**1UXK7**
150kg/300 lb.	0.02kg/20g/0.05 lb.	21 5⁄8 in	16 1⁄2 in	36"	Ohaus	D31P150BL	**1UXK8**
150kg/300 lb.	0.02kg/20g/0.05 lb.	25 5⁄8 in	19 11⁄16 in	36"	Ohaus	D31P150BX	**1UXK9**
300kg/600 lb.	0.05kg/5g/0.1 lb.	25 5⁄8 in	19 11⁄16 in	36"	Ohaus	83998116	**1UXL1**
MeasureTek							
30kg/60 lb.	5g/0.01 lb.	14 5⁄8 in	12 in	21 1⁄2"	MeasureTek	12R963	**12R963**
60kg/150 lb.	0.01kg/0.02 lb.	14 5⁄8 in	12 in	21 1⁄2"	MeasureTek	12R964	**12R964**
60kg/150 lb.	0.01kg/0.02 lb.	21 5⁄8 in	16 1⁄2 in	29 1⁄2"	MeasureTek	12R965	**12R965**
150kg/300 lb.	0.02kg/0.05 lb.	21 5⁄8 in	16 1⁄2 in	29 1⁄2"	MeasureTek	12R966	**12R966**
150kg/300 lb.	0.02kg/0.05 lb.	25 5⁄8 in	19 3⁄4 in	35 1⁄2"	MeasureTek	12R967	**12R967**
300kg/600 lb.	0.05kg/0.1 lb.	25 5⁄8 in	19 3⁄4 in	35 1⁄2"	MeasureTek	12R968	**12R968**

Floor Scales

ADAM OHAUS

More scales are available online, see Grainger.com®.

GFC Series—A powerful asset for parts counting in applications including inventory, quality inspections, and in warehouse or production environments. Include built-in rechargeable battery for portability, preset tare to speed up repetitive weighing, and RS-232 interface to connect to a computer or printer. Weigh in kg or lb. Meet FCC, UL, CE standards.

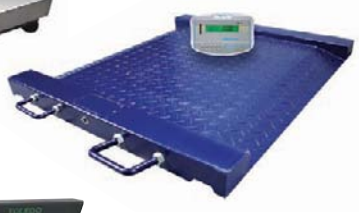
GFK Series—Efficient checkweigher with large scale benefits is excellent for quality control, production, warehousing, and packing applications. Features include LCD, programmable audible alarm, hold fuction to freeze displayed weight, and over, under, and acceptable weight LED lights. Include built-in rechargeable battery. Weigh in g, kg, lb., lb.:oz and oz. CE, UL, and CSA Certified.

PTM 500 Series—Features an easy-access base with built-in ramps and GK remote indicator. Integrated wheels permit easy movement and diamond plate surface improves grip. Backlit LCD displays weight in kg and lb. Includes AC adapter and charger. Ideal for warehouse or medical applications. Meets FCC, UL, and CE standards.

Defender™—Features epoxy-painted steel construction with beam lock mechanism to protect scale during storage, and phenolic wheels for portability. Beam calibrated to 100 lb. in 0.5 lb. increments. Includes counterpoise weights to increase capacity to 1,000 lb.: 2 × 100 lb., 1 × 200 lb., and 1 × 500 lb.



GFK Series
No. 5PVN6



PTM 500 Series
No. 15Y007



Defender™
No. 3CWN5

Capacity	Scale Display	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
Digital Floor Scales								
GFC Series								
75kg/165 lb.	LCD	0.01 lb.	19 5⁄8 in	15 5⁄8 in	33 7⁄8"	Adam	GFC 165a	**15Y028**
150kg/330 lb.	LCD	0.02 lb.	19 5⁄8 in	15 5⁄8 in	33 7⁄8"	Adam	GFC 330a	**15Y029**
300kg/660 lb.	LCD	0.05 lb.	19 5⁄8 in	15 5⁄8 in	33 7⁄8"	Adam	GFC 660a	**15Y030**
GFK Series								
75kg/165 lb.	LCD	1g	19 5⁄8 in	15 5⁄8 in	33 7⁄8"	Adam	GFK165AH	**5PVN5**
150kg/330 lb.	LCD	0.01kg/0.02 lb.	19 5⁄8 in	15 5⁄8 in	33 7⁄8"	Adam	GFK330A	**5PVN6**
PTM 500 Series								
500kg/1100 lb.	LCD	0.1kg/0.2 lb.	23 in	30 in	3"	Adam	PTM 500 & GK	**15Y007**
Mechanical Floor Scale								
Defender™								
1000 lb.	Graduated Beam	0.5 lb.	28 in	19 in	48 3⁄4"	Ohaus	D500M	**3CWN5**



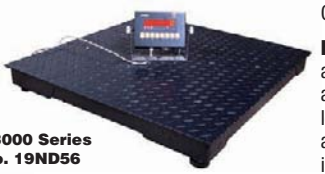
CPW Plus Series
No. 9TAJ8



B-Tek Bench Series
No. 36D855



B-Tek Floor Series
No. 36D839



PS3000 Series
No. 19ND56



MeasureTek
No. 12R960



VX Series
No. 3CWN3

Platform Scales

More scales are available online, see Grainger.com®.

CPW Plus Series—Portable scales with multiple configurations are ideal for many applications including warehouse, production, and field work. Operate on AC adapter (included) or battery power. Feature a large stainless steel platform and convenient hold function. Backlit LCD displays weight in kg, lb., lb.:oz and oz. Meet UL and CE standards.

B-Tek Bench Series—Scales have a stainless steel weighing platter and a structural tube base to ensure long-term performance in rugged and corrosive applications. Functions include weighing, checkweighing, bagging, packaging, and other high accuracy industrial weighing applications. NTEP Approved.

B-Tek Floor Series—Industrial scales are designed with a formed channel substructure and tread plate decking to ensure maximum durability for the life of the scale. Specially formulated, durable 2-part epoxy paint finish provides excellent hardness and protects against chipping and wear. NTEP Approved.

PS3000 Series—Heavy-duty diamond plate steel construction features a 2-part epoxy paint finish. Include a 20-ft. long braided interface cable with quick disconnect, RS232 cable for printer and PC connectivity, and bright 1" tall display. Ideal for use in shipping and receiving and inventory control applications.

MeasureTek—Thick top tread plate platform provides added durability and slip resistance and is IP65 waterproof. Run on AC adapter (included) or 4 AA batteries. Include large LCD and blue backlight. USB /RS232 interface allows communication with PC. Functions include weighing, counting, checkweighing, percent weighing, accumulation, and hold. See Grainger.com® for standards and regulation information.

VN and VX Series—Painted carbon steel top plate has raised cross-hatch surface for added slip resistance and shear beam load cells protected to IP67. Feature both weighing and counting functions. Include stainless steel indicator with bi-directional RS232, AC adapter, and internal rechargeable battery. Weigh in kg, g, lb., oz., lb.:oz. See Grainger.com® for standards and regulation information.

Capacity	Scale Display	Scale Readability	Weighing Surface D	Weighing Surface W	Overall H	Material	Brand	Mfr. Model	Item No.	
Bench Platform Scales										
CPW Plus Series										
33 lb, 15 kg	LCD	5 g	11 7/8 in	11 7/8 in	2 in	Stainless Steel	Adam	CPWPLUS15	**9RCP4**	
75 lb, 35 kg	LCD	0.02 lb, 0.01 kg	19 13/16 in	19 13/16 in	1 5/8 in	Stainless Steel	Adam	CPWPLUS 35M	**9LNT1**	
75 lb, 35 kg	LCD	10 g	11 7/8 in	11 7/8 in	2 in	Stainless Steel	Adam	CPWPLUS35	**9TAJ8**	
165 lb, 75 kg	LCD	20 g	11 7/8 in	11 7/8 in	2 in	Stainless Steel	Adam	CPWPLUS75	**8DG40**	
330 lb, 150 kg	LCD	50 g	11 7/8 in	11 7/8 in	2 in	Stainless Steel	Adam	CPWPLUS150	**8DG41**	
330 lb, 150 kg	LCD	50 g	19 13/16 in	19 13/16 in	1 5/8 in	Stainless Steel	Adam	CPWPLUS 150M	**9MRP5**	
440 lb, 200 kg	LCD	50 g	19 13/16 in	19 13/16 in	1 5/8 in	Stainless Steel	Adam	CPWPLUS 200M	**8XF58**	
B-Tek Bench Series										
50 lb, 25 kg	—	0.01 kg	12 in	12 in	6 in	Carbon Steel	B-Tek	BT-B-1212C-50	**36D855**	*
50 lb, 25 kg	—	0.01 kg	18 in	18 in	6 in	Carbon Steel	B-Tek	BT-B-1818C-50	**36D858**	*
50 lb, 25 kg	—	0.01 kg	12 in	12 in	6 in	Stainless Steel	B-Tek	BT-B-1212S-50	**36D864**	*
100 lb, 50 kg	—	0.02 kg	12 in	12 in	6 in	Carbon Steel	B-Tek	BT-B-1212C-100	**36D856**	*
100 lb, 50 kg	—	0.02 kg	12 in	12 in	6 in	Stainless Steel	B-Tek	BT-B-1212S-100	**36D865**	*
100 kg, 250 lb	—	0.05 kg	18 in	18 in	6 in	Carbon Steel	B-Tek	BT-B-1818C-250	**36D860**	*
Floor Platform Scales										
B-Tek Floor Series										
1,000 kg, 2,500 lb	—	1 lb	24 in	24 in	4 1/2 in	Carbon Steel	B-Tek	BT-2424-2.5K-DS	**36D846**	*
4,500 kg, 10,000 lb	—	2 lb	48 in	48 in	4 in	Carbon Steel	B-Tek	BT-F-4848-4S	**36D839**	*
4,500 kg, 10,000 lb	—	2 lb	48 in	48 in	4 in	Carbon Steel	B-Tek	BT-F-4848C	**36D840**	*
4,500 kg, 10,000 lb	—	2 lb	60 in	60 in	4 1/2 in	Carbon Steel	B-Tek	BT-F-6060C	**36D841**	*
4,500 kg, 10,000 lb	—	2 lb	60 in	60 in	4 1/2 in	Stainless Steel	B-Tek	BT-F-6060S	**36D844**	*
4,500 kg, 10,000 lb	—	2 lb	72 in	72 in	4 1/2 in	Carbon Steel	B-Tek	BT-F-7272C	**36D842**	*
PS3000 Series										
5,000 lb, 2,300 kg	LED	1 lb, 0.5 kg	48 in	48 in	3 1/4 in	Carbon Steel	Pinnacle	PS3000-44-5	**19ND56**	
5,000 lb, 2,300 kg	LED	2 lb, 1 kg	60 in	60 in	3 1/4 in	Carbon Steel	Pinnacle	PS3000-55-5	**19ND58**	
4,500 kg, 10,000 lb	LED	1 lb, 0.5 kg	48 in	48 in	3 1/4 in	Carbon Steel	Pinnacle	PS3000-44-10	**19ND57**	
4,500 kg, 10,000 lb	LED	2 lb, 1 kg	60 in	60 in	3 1/4 in	Carbon Steel	Pinnacle	PS3000-55-10	**19ND59**	
MeasureTek										
1,000 kg, 2,500 lb	LCD	0.2 kg, 0.5 lb	48 in	48 in	4 in	Diamond Plated Steel	MeasureTek	12R959	**12R959**	
2,200 kg, 5,000 lb	LCD	1 lb, 0.5 kg	48 in	48 in	4 in	Diamond Plated Steel	MeasureTek	12R960	**12R960**	
VN Series										
5,000 lb, 2,500 kg	LCD	1 lb, 0.5 kg	48 in	48 in	3 1/2 in	Painted Steel	Ohaus	VN31P5000L-US	**20FZ13**	
5,000 lb, 2,500 kg	LCD	1 lb, 0.5 kg	60 in	60 in	3 1/2 in	Painted Steel	Ohaus	VN31P5000X-US	**20FZ17**	
VX Series										
1,000 kg, 2,500 lb	LCD	0.2 kg, 0.5 lb	48 in	48 in	4 1/2 in	Carbon Steel	Ohaus	VX31P2500L	**3CWN2**	
1,000 kg, 2,500 lb	LCD	0.2 kg, 0.5 lb	48 in	48 in	4 1/2 in	Painted Steel	Ohaus	VX32XW2500L-US	**20FZ15**	
5,000 lb, 2,300 kg	LCD	1 lb, 0.5 kg	48 in	48 in	4 1/2 in	Carbon Steel	Ohaus	VX31P5000L	**3CWN3**	
5,000 lb, 2,300 kg	LCD	1 lb, 0.5 kg	48 in	48 in	4 1/2 in	Painted Steel	Ohaus	VX32XW5000L-US	**20FZ16**	
5,000 lb, 2,300 kg	LCD	1 lb, 0.5 kg	60 in	60 in	4 1/2 in	Painted Steel	Ohaus	VX32XW5000X-US	**20FZ18**	
4,500 kg, 10,000 lb	LCD	2 lb, 1 kg	48 in	48 in	4 1/2 in	Painted Steel	Ohaus	VX32XW10000L-US	**20FZ19**	
4,500 kg, 10,000 lb	LCD	2 lb, 1 kg	60 in	60 in	4 1/2 in	Painted Steel	Ohaus	VX32XW10000X-US	**20FZ20**	
Accessories for Floor Platform Scales										
Digital Indicator, ABS Housing					12 in	FRP	B-Tek	BT-P-103	**36D847**	
Digital Indicator, SS Housing					12 in	Stainless Steel	B-Tek	BT-SS-103	**36D848**	
Digital Indicator, SS w/Keypad					12 in	Stainless Steel	B-Tek	DD700i	**53YJ83**	
Floor Scale Ramp for Nos. 12R959 and 12R960					4 3/8 in		MeasureTek	12R961	**12R961**	

**** See Grainger.com® for required indicator.***

Shipping and Receiving Scales

- LCD

More scales are available online, see Grainger.com®.

MEASURETEK

Nos. 12R969 and 12R971 to 12R973 are simple to operate and feature a compact design, rugged ABS housing. Compatible with UPS Worldship.

No. 12R970 is NTEP, UL Approved and allowed for use in legal-for-trade applications. Functions include weighing, counting, checkweighing, and percent weighing. Feature accumulation and hold modes. Constructed with die-cast aluminum base, stainless steel platter, and aluminum housing indicator with big LCD display and blue backlight. Include USB/ RS232 and cables to communicate with PC.

C11 CATAPULT

Compact with built-in carrying handles and feature modes for both weighing and dynamic weighing. Also feature display hold function. Operate on AC adapter or 3 C batteries (not included), with power saving auto shutoff mode. Weigh in kg or lb.

ES SERIES

Features integral stainless steel platform and adjustable stainless steel indicator mounting plate, and a large 1" display. 150% overload protection. Coiled indicator cord allows mounting indicator to scale, table, or wall. Easy 2-button use with auto shutoff and stability and overload indicators. Weighs in kg, lb., lb./oz.

SD SERIES

Portable bench scales feature painted steel platform and indicator with 2-button operation. Applications include weigh, dynamic weighing, and a display hold. Coiled 9-ft. indicator cord and brackets allow mounting indicator to table or wall. Power with included AC adapter or up to 360 hr. with 3 C batteries (not included). Weigh in kg.

RUBBERMAID

Rugged 18-ga. scale designed to handle heavy packages and containers with a low-profile, nonskid platform. Remote ½" wall-mount indicator saves counter space and provides eye-level, readout (9-ft. cord reach) for employee-safe receiving. Tare feature removes weight of container.

TE SERIES

Durable and portable scales feature a separate platform and control panel with readout.



MeasureTek
No. 12R972



C11 Catapult Series
No. 2XKC7



ES Series
No. 6YG89



SD Series
No. 1UXJ9



Rubbermaid
No. 4TH72



TE Series
No. 3NZG3

Capacity	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
MeasureTek							
2kg/4 lb.	1g/0.1 oz.	5 7/8 in	5 7/8 in	1½"	MeasureTek	12R972	**12R972**
5kg/11 lb.	1g/0.1 oz.	5 7/8 in	5 7/8 in	1½"	MeasureTek	12R973	**12R973**
10kg/25 lb.	2g/0.1 oz.	5 1/4 in	8 1/8 in	1¾"	MeasureTek	12R969	**12R969**
60kg/150 lb.	0.02kg/0.05 lb.	12 in	14 in	3½"	MeasureTek	12R970	**12R970**
75kg/165 lb.	0.05kg/0.1 lb.	19 3/4 in	15 3/4 in	2⅝"	MeasureTek	12R980	**12R980**
200kg/440 lb.	0.1kg/0.2 lb.	19 3/4 in	15 3/4 in	2⅝"	MeasureTek	12R981	**12R981**
C11 Catapult Series							
9kg/20 lb.	0.005kg/0.01 lb.	11 in	12 7/16 in	2 7/16"	Ohaus	83998137	**2XKC7**
20kg/44 lb.	0.01kg/0.02 lb.	11 in	12 7/16 in	2 7/16"	Ohaus	C11P20	**2XKC8**
75kg/165 lb.	0.05kg/0.1 lb.	11 in	12 7/16 in	2 7/16"	Ohaus	C11P75	**2XKC9**
ES Series							
6kg/13 lb.	0.002kg/0.005 lb.	10 13/16 in	12 3/16 in	1⅝"	Ohaus	ES6R	**6YG89**
SD Series							
35kg/77 lb.	0.02kg/20g/0.05 lb.	12 3/8 in	11 in	1 13/16"	Ohaus	SD35	**1UXJ9**
75kg/165 lb.	0.05kg/50g/0.1 lb.	12 3/8 in	11 in	1 13/16"	Ohaus	SD75	**1UXK1**
75kg/165 lb.	0.05kg/0.1 lb.	15 1/16 in	20 ½ in	3"	Ohaus	SD75L	**1UXK2**
200kg/440 lb.	0.1kg/100g/0.2 lb.	12 3/8 in	11 in	1 13/16"	Ohaus	SD200	**1UXK3**
200kg/440 lb.	0.1kg/100g/0.2 lb.	15 1/16 in	20 ½ in	3"	Ohaus	SD200L	**1UXK4**
Rubbermaid							
68kg/150 lb.	0.2kg/2g/0.5 lb.	12 ½ in	12 in	2¼"	Rubbermaid Commercial Products	FG-4010G88	**4TH71**
180kg/400 lb.	0.2kg/0.5 lb.	12 ½ in	12 in	2¼"	Rubbermaid Commercial Products	FG4040G88	**4TH72**
TE Series							
60kg/150 lb.	0.1kg/0.2 lb.	12 ¼ in	12 in	2⅛"	Taylor	TE150	**3NZG3**
180kg/400 lb.	0.2kg/0.5 lb.	12 ¼ in	12 in	2⅛"	Taylor	TE400	**3NZG4**



EHC Series
No. 12R983



Ranger Count 3000
No. 20FY97



Ranger 7000
No. 38TH28

MEASURETEK QUALITY SCALES OHAUS

Digital and Counting Scales

More scales are available online, see Grainger.com®.

EHC SERIES

Functions include count, tare, preset tare, Hi/Low, and accumulation. Feature robust ABS housing with removable stainless steel platter, LED, RS232 interface, and 256 memories. Internal counting resolutions of 1:600,000 and a 30000. Powered by AC adapter and NiMH rechargeable battery. Meet UL and CE standards.

RANGER® COUNT 3000

Feature stainless steel pan with ABS housing, 30 item library, 210 hours of battery life, APW auto-optimization, numeric keypad, and low battery indicator. Stabilization occurs in under 1 second. Functions include weighing, parts counting, checkweighing, checkcounting, and accumulation. Include RS232 and 3 backlit LCDs. Weigh in kg, g, lb., oz., and lb.:oz.

RANGER® 7000

Feature a 300 item library for storage, keypad with graphical interface, standard RS232 or USB device. Additional connectivity options include a second RS232 or Ethernet, and standard USB host port for bar code scanner or flash drive. Application modes include weighing, parts counting, percent weighing, check weighing, dynamic weighing, filling, formulation, differential weighing, and density weighing. Backup, restore, and clone user profile library using USB port. Weigh in kg, g, lb., oz., lb.:oz. For standards and regulations, see Grainger.com®.

Capacity	Scale Display	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
EHC Series								
6kg/12 lb.	LED	0.2g/0.0005 lb.	8 5⁄8 in	11 1⁄2 in	4 5⁄8"	MeasureTek	12R983	**12R983**
15kg/30 lb.	LED	0.5g/0.001 lb.	8 5⁄8 in	11 1⁄2 in	4 5⁄8"	MeasureTek	12R984	**12R984**
30kg/60 lb.	LED	3g/0.006 lb.	8 5⁄8 in	11 1⁄2 in	4 5⁄8"	MeasureTek	12R985	**12R985**
Ranger Count 3000								
6kg/15 lb.	LCD	0.0002kg/0.0005 lb.	11 7⁄8 in	9 in	4 5⁄8"	Ohaus	RC31P6	**20FY95**
15kg/30 lb.	LCD	0.0005kg/0.001 lb.	11 7⁄8 in	9 in	4 5⁄8"	Ohaus	RC31P15	**20FY96**
30kg/60 lb.	LCD	0.001kg/0.002 lb.	11 7⁄8 in	9 in	4 5⁄8"	Ohaus	RC31P30	**20FY97**
Ranger® 7000								
3kg/6 lb.	LCD	0.00005kg/0.0001 lb.	11 in	11 in	4 1⁄2"	Ohaus	R71MD3	**38TH25**
6kg/15 lb.	LCD	0.00002kg/0.00005 lb.	11 in	11 in	4 1⁄2"	Ohaus	R71MHD6	**38TH30**
15kg/30 lb.	LCD	0.0002kg/0.0005 lb.	12 1⁄4 in	14 3⁄4 in	4 1⁄2"	Ohaus	R71MD15	**38TH27**
35kg/70 lb.	LCD	0.0005kg/0.001 lb.	12 1⁄4 in	14 3⁄4 in	4 1⁄2"	Ohaus	R71MD35	**38TH28**



Measuretek
EHC-W Series
No. 52WX78



Valor™ 1000
Series
No. 3RAK6



Valor™ 3000
Series
No. 1NZA5



TE Series
No. 3NZG9

MEASURETEK QUALITY SCALES OHAUS TAYLOR

Digital Packaging and Portioning Scales, Dry Use

- LCD

More scales are available, see Grainger.com®.

Measuretek EHC-W Series—Compact scales include AC adapter, rechargeable battery, RS232 port, and stainless steel pan. Functions include weighing, counting, check weighing, percent weighing, tare, and accumulation. Weigh in g and lb. Meet FCC standards.

Valor™ 1000—Economical, multipurpose, and compact scale has a backlit display and ABS plastic housing. Functions include weigh, accumulate, and checkweigh. Operate on AC adapter or 80-hr. internal rechargeable battery. Weigh in lb., oz., kg, g. NSF Listed/Certified and supports HAACP systems.

Valor™ 3000—Constructed with stainless steel housing and pan with added chemical resistance. Functions include weighing, percent weighing, combined zero/tare, and specific gravity (S). Operate on AC adapter or up to 100 hr. on 4 C batteries (not included). Weigh in kg, g, lb., oz., lb.:oz., fluid oz. NTEP Certified and NEMA 4X/IP65 models available. NSF Listed/Certified, USDA/AMS Accepted, and supports HAACP systems.

TE Series—Compact scale is ideal for commercial foodservice applications. Include a tare function and auto-off feature. Run on batteries (not included) or AC adapter. NSF Listed.

Capacity	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
Measuretek EHC-W Series							
3kg/6 lb.	0.1g/0.0002 lb.	8 3⁄4 in	11 1⁄2 in	4 5⁄16"	MeasureTek	GGS_42961	**52WX78**
6kg/12 lb.	0.2g/0.0005 lb.	8 3⁄4 in	11 1⁄2 in	4 5⁄16"	MeasureTek	GGS_42962	**52WX79**
15kg/30 lb.	0.5g/0.001 lb.	8 3⁄4 in	11 1⁄2 in	4 5⁄16"	MeasureTek	GGS_42963	**52WX80**
Valor™ 1000 Series							
3kg/6.6 lb.	0.0005kg/0.5g/0.001 lb.	7 1⁄8 in	9 7⁄8 in	11 7⁄8"	Ohaus	V11P3	**3RAK6**
6kg/13 lb.	0.001kg/1g/0.002 lb.	7 1⁄8 in	9 7⁄8 in	11 7⁄8"	Ohaus	V11P6	**3RAK7**
15kg/33 lb.	0.002kg/2g/0.01 lb.	7 1⁄8 in	9 7⁄8 in	6 1⁄4"	Ohaus	83998128	**3RAK8**
30kg/66 lb.	0.005kg/5g/0.01 lb.	7 1⁄8 in	9 7⁄8 in	11 7⁄8"	Ohaus	V11P30	**3RAK9**
Valor™ 3000 Series							
2kg/4.4 lb.	0.0001kg/0.1g/0.00005 lb.	5 3⁄4 in	6 1⁄4 in	3"	Ohaus	V31XH2	**1NZA6**
3kg/6 lb.	0.0005kg/0.5g/0.002 lb.	5 3⁄4 in	6 1⁄4 in	3"	Ohaus	V31X3	**1NZA8**
6kg/15 lb.	0.001kg/1g/0.005 lb.	5 3⁄4 in	6 1⁄4 in	3"	Ohaus	V31X6	**1NZB1**
200g/0.44 lb.	0.00001kg/0.01g/0.00005 lb.	5 3⁄4 in	4 3⁄4 in	3"	Ohaus	83998130	**1NZA5**
TE Series							
2 lb.	1g/0.1 oz.	5 3⁄8 in	5 3⁄8 in	1 3⁄8"	Taylor	TE32FT	**3NZG9**
5kg/10 lb.	0.001kg/0.002 lb.	5 3⁄8 in	5 3⁄8 in	1 3⁄8"	Taylor	TE10FT	**3NZH1**

OHAUS MEASURETEK

Digital Packaging and Portioning Scales, Washdown

More scales are available, see Grainger.com®.

Valor™ 3000—Constructed with stainless steel housing and pan with added chemical resistance. Operate on AC adapter or up to 100 hr. on 4 C batteries (not included). Functions include weighing, percent weighing, combined zero/tare, and specific gravity (S). Weigh in kg, g, lb., oz., lb.:oz., and fluid oz. NTEP Certified and NEMA 4X/IP65 models available. NSF Listed/Certified, USDA/AMS Accepted, and supports HAACP systems.

MeasureTek—Functions include weighing, checkweighing, and parts counting. IP68 waterproof scale has ABS housing with removable stainless steel platter and front and rear LED display. Powered by AC adapter and NiMH rechargeable battery. Meet CE and UL standards.



Valor™ 3000
No. 1NZB3



MeasureTek
No. 12R990

Capacity	Scale Display	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Height	Brand	Mfr. Model	Item No.
Valor™ 3000 Series								
3kg/6 lb.	LCD	0.001kg/1g/0.005 lb.	5 ¾ in	6 ¼ in	3"	Ohaus	V31XW3	**1NZB5**
6kg/13 lb.	LCD	0.002kg/2g/0.005 lb.	5 ¾ in	6 ¼ in	3"	Ohaus	V31XW6	**1NZB7**
300g/0.6 lb.	LCD	0.0001kg/0.1g/0.00005 lb.	5 ¾ in	6 ¼ in	3"	Ohaus	V31XW301	**1NZB3**
MeasureTek								
3kg/6.6 lb.	LED	0.5g/0.001 lb.	7 ½ in	9 ⅛ in	4⅜"	MeasureTek	12R990	**12R990**
6kg/13.2 lb.	LED	1g/0.002 lb.	7 ½ in	9 ⅛ in	4⅜"	MeasureTek	12R991	**12R991**
15kg/33 lb.	LED	2g/0.005 lb.	7 ½ in	9 ⅛ in	4⅜"	MeasureTek	12R992	**12R992**

Chatillon force measurement

Mechanical Hanging Scales

No. 3JKN1 is constructed of heavy-gauge japanned steel with a large, easy-to-read dial. Includes convenient zero adjustment screw and plated top loop and bottom hook. Nos. 3JKN5 and 3JKN7 are extra heavy-duty steel and cast iron construction and have a recessed pointer with deeply embossed numbers and graduations. Nos. 5A354 and 4VG68 feature a heavy-gauge solid brass construction with precision steel springs. Can be used in salt water applications. Feature avoirdupois and metric graduations.

Cap.	Weighing Units	Scale Graduations	Scale Accuracy	Scale Display	Mfr. Model	Item No.
100 lb.	lb.	0.5 lb.	±1 Graduation	Analog Dial	WH-100	**3JKN1**
200 lb.		2 lb.		Analog Linear	IC-200	**3JKN5**
500 lb.		5 lb.		Analog Linear	IC-500	**3JKN7**
25kg/50 lb.	kg, lb.	250g/8 oz.		Analog Linear	IN-050	**5A354**
50kg/100 lb.		50g/1 lb.		Analog Linear	IN-100	**4VG68**



No. 3JKN1



No. 3JKN5



No. 3JKN7



No. 4VG68

Rubbermaid Commercial Products TAYLOR

Mechanical Dial Scales

- **Analog dial display**

More scales available online, see Grainger.com®.

Dual-Read Washable—Features 30° angled, easy-to-read, shatter-resistant lens and shock absorbers to help prevent the needle from bouncing for quicker reads. Constructed from durable steel with baked enamel finish. No tools required to disassemble. Rotating dial allows for multiple ingredient weighing. NSF Listed.

Dial Scale—Features heavy-duty metal construction and handle with built-in dial lock for quick weighings. Also includes a white rotating dial with black graphics and red pointer.



Dual-Read Washable
No. 1VJX8



Dial Scale
No. 3NZG5

Capacity	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Mfr. Model	Item No.
Dual-Read Washable									
9kg/20 lb.	0.025kg/0.063 lb.	9 in	9 in	7¼"	10⅞"	10⅝"	Rubbermaid Commercial Products	FG820BW	**1VJX8**
Dial Scale									
250 lb.	1 lb.	12 in	13 ¼ in	12⅝"	13¼"	3½"	Taylor	TR250	**3NZG5**

GRAINGER APPROVED

A&D Weighing OHAUS



GA
No. 1NXG4



HL-WP Portable Series
No. 3JKD1



YA Series
No. 5RCZ4



HH Series
No. 5AE95

Digital Balances

- LCD

More scales available online, see Grainger.com®.

GA SERIES

Features a stainless steel platform, leveling feet , auto shut-off, and tare function. Weighs in kg, g, oz., lb., and pcs.. CE Certified.

HL-WP PORTABLE SERIES

Compact and portable IP67 washdown scales are great for harsh industrial environments, wet areas, and kitchens. Constructed with a stainless steel body and removable pan that can be fully submersed in water for cleaning. Use 6 AA batteries or AC adapter (optional). Battery level indicator with auto shut-Off. Weigh in g, oz., and lb. Meet NSF and HACCAP standards. No. 3JKD3 is NTEP legal-for-trade.

YA SERIES

Functional, portable design includes high-contrast backlit LCD, stainless steel weighing pan, hinged pan cover, low-battery indicator, and auto shut-off. Operate on 2 AAA batteries (included). Weigh in g, oz., ct., and gn.

HH SERIES

Compact and portable unit has a low-battery indicator and overload and underload indicators. Constructed of rugged plastic with a protective snap-on cover and button-activated luminescent display. Easy to calibrate. Operate on 2 AAA batteries (included). Weigh g., oz., dwt., and t oz.

Capacity	Scale Graduations	Weighing Surface D	Weighing Surface W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Mfr. Model	Item No.
GA Series									
5000g	1g	5 ½ in	5 13⁄16 in	8¾"	7¼"	3¼"	GA	—	**1NXG4**
HL-WP Portable Series									
300g	0.1g	5 in	5 in	5 1⁄16"	7½"	2"	A&D Weighing	HL-300WP	**3WRE8**
3000g	1g	5 in	5 in	5 1⁄16"	7½"	2"	A&D Weighing	HL-3000WP	**3JKD1**
3000g	1g	5 in	5 in	5 1⁄16"	7½"	2"	A&D Weighing	HL-3000WPN	**3JKD3**
YA Series									
100g	0.01g	2 in	3 in	4½"	3"	¾"	Ohaus	YA102	**5RCZ4**
300g	0.05g	2 in	3 in	4½"	3"	¾"	Ohaus	YA302	**5RCZ5**
500g	0.1g	2 in	3 in	4½"	3"	¾"	Ohaus	YA501	**5RCZ6**
HH Series									
120g	0.1g	3 in	3 ¼ in	5⅓"	3¼"	¾"	Ohaus	HH120	**5AE95**
320g	0.1g	3 in	3 ¼ in	5⅓"	3¼"	¾"	Ohaus	HH320	**5AE96**
Accessory for GA Series									
AC Adapter							GA	—	**12R974**

Calibration Weights - Certifications and Classifications

DOCUMENTATION:
- **Traceable**—Certificate meets ISO and traceability requirements for Classes 4 to 7 and Class F weights

CLASSIFICATIONS:
- **Class 5 & 6**—Weights used for laboratories
- **Class 7**—For rough weighing operations in physical and chemical laboratories, such as force measuring apparatus



Slotted

RICE LAKE WEIGHING SYSTEMS



Grip Handle



Hook



Cylinder



Leaf

Calibration Weights

- More sizes, documentations, and classifications are available online, see Grainger.com®

For routine calibration of scales or verification checks.

CAST IRON

Painted weights with an adjustable sealing cavity. Typical application is field standard for testing industrial weighing devices.

Slotted

Weights with a slot to stack on a hanger for checking or calibrating devices that do not have a surface to stack weights.

STAINLESS STEEL

Type 2 design weights feature a sealing cavity for adjusting material in 100g or larger weights. Applications include field standard for testing light industrial weighing devices.

Nom. Mass	Calibration Weight Style	Calibration Certificate No Certificate Item No.	Calibration Certificate Traceable - Accredited Item No.
Cast Iron			
6 Calibration Weight Class			
250 lb	Grip Handle	**15F116**	**15F115**
500 lb	Grip Handle	**15F114**	—
50 kg	Grip Handle	**15F065**	**15F064**
100 kg	Grip Handle	**15F120**	**15F119**
250 kg	Grip Handle	**15F118**	**15F117**
7 Calibration Weight Class			
0.5 lb	Slotted	**15F049**	**15F048**
1 lb	Grip Handle	**15F059**	**15F058**
1 lb	Slotted	**15F045**	**15F044**
2 lb	Grip Handle	**15F057**	**15F056**
2 lb	Slotted	**15F047**	**15F046**
5 lb	Grip Handle	**15F053**	**15F052**
5 lb	Slotted	**15F051**	**15F050**
10 lb	Grip Handle	**15F061**	**15F060**
5 kg	Grip Handle	**15F055**	**15F054**

Nom. Mass	Calibration Weight Style	Calibration Certificate No Certificate Item No.	Calibration Certificate Traceable - Accredited Item No.
Stainless Steel			
5 Calibration Weight Class			
1 g	Cylinder	**15F138**	—
2 g	Cylinder	**15F130**	**15F129**
5 g	Cylinder	**15F122**	—
50 g	Cylinder	**15F124**	—
20 mg	Leaf	**15F083**	**15F082**
100 mg	Leaf	**15F087**	**15F086**
200 mg	Leaf	**15F085**	**15F084**
500 mg	Leaf	**15F081**	**15F080**
6 Calibration Weight Class			
1 lb	Hook	**15F108**	**15F107**
2 lb	Hook	**15F099**	**15F098**
5 lb	Hook	**15F091**	**15F090**
10 lb	Hook	**15F112**	**15F111**
20 lb	Hook	**15F104**	**15F103**
1 oz	Hook	**15F106**	**15F105**
2 oz	Hook	**15F097**	**15F096**
4 oz	Hook	**15F095**	**15F094**
8 oz	Hook	**15F089**	**15F088**
1 kg	Hook	**15F110**	**15F109**
2 kg	Hook	**15F102**	**15F101**
5 kg	Hook	**15F093**	**15F092**

Find more Cup and Lid sizes and styles at Grainger.com®.

Coordinating Lids

Grainger offers a full selection of coordinating disposable cup lids in a variety of styles. Visit Grainger.com® and search for your disposable cup to find a corresponding lid.


Sip-Thru


Dome


Straw Slotted


Reclosable


Flat


Vented


Lock Back Tear Tab

DART®

GA GRAINGER APPROVED

White Hot/Cold Foam Cups

Standard white foam cups are an economical and efficient choice for insulating beverages.


No. 23UA55


No. 1PTN5


No. 6GEC4

Capacity	DART CUPS Mfr. Model	DART CUPS Item No.	DART CUPS Pkg. Qty.	DART LIDS Mfr. Model	DART LIDS Item No.	DART LIDS Pkg. Qty.	GA CUPS Mfr. Model	GA CUPS Item No.	GA CUPS Pkg. Qty.	GA LIDS Mfr. Model	GA LIDS Item No.	GA LIDS Pkg. Qty.
4 oz.	4J4	**23UA55**	1000	4JL	**23UC02**	1000	4C4W	**6GEA6**	1000	L4V	**6GEG4**	1000
6 oz.	6J6	**23UA56**	1000	6JL	**23UC03**	1000	6C6W	**6GEA7**	1000	L6V	**6GEG5**	1000
8 oz.	8J8	**1PTP7**	1000	8EL	**23UC07**	1000	H8S	**6GEA8**	1000	DT8	**6GUK8**	1000
10 oz.	10J10	**23UA57**	1000	10EL	**23UC12**	1000	H10S	**6GEA9**	1000	H10S	**6GUL1**	1000
12 oz.	12J12	**1PTN5**	1000	12EL	**23UC14**	1000	C12A	**6GEC0**	1000	—	—	—
16 oz.	16J16	**1PTP1**	1000	16EL	**23UC16**	1000	C1618	**6GEC2**	500	—	—	—
20 oz.	20J16	**23UA59**	500	16EL	**23UC16**	1000	C2022	**6GEC3**	500	—	—	—
24 oz.	24J16	**23UA60**	500	16EL	**23UC16**	1000	24C18	**6GEC4**	300	—	—	—
32 oz.	32TJ32	**23UA61**	500	32SL	**23UC20**	500	C3234	**6GEC5**	500	C3234	**6GUM1**	500


Javalicious Print


Simplicity Print

GA GRAINGER APPROVED

Printed Hot/Cold Foam Cups

Designed with attractive graphics to provide a more upscale appearance to consumers.

Capacity	JAVALICIOUS CUPS Mfr. Model	JAVALICIOUS CUPS Item No.	JAVALICIOUS CUPS Pkg. Qty.	SIMPLICITY CUPS Mfr. Model	SIMPLICITY CUPS Item No.	SIMPLICITY CUPS Pkg. Qty.
8 oz.	219868	**6GEE1**	1000	—	—	—
12 oz.	219869	**6GEE2**	1000	C12ASIM II	**6GED5**	1000
16 oz.	219870	**6GEE3**	500	C1618SIM II	**6GED6**	500
20 oz.	219871	**6GEE4**	500	C2022SIM II	**6GED7**	500
24 oz.	—	—	—	24C18SIM II	**6GED8**	300

GA GRAINGER APPROVED

Printed Wrapped Hot/Cold Foam Cups

Printed outer wrap provides an attractive appearance and an extra layer of insulation to protect hands without using a sleeve or double cupping.

Capacity	Mfr. Model	Item No.	Pkg. Qty.
16 oz.	217807	**22YJ50**	500
20 oz.	216082	**22YJ51**	500



Coffee House

Find Cup Lids at Grainger.com®; search for "Disposable Lids".

Types of Disposable Cups

Poly-Coated (PE) Paper
Polymer coating provides extra insulation and makes these cups ideal for hot or cold beverages. This material also helps protect the outside of the cup from weakening due to condensation or "sweating."

Foam
A great option for hot or cold beverages, foam cups hold their shape better than paper cups. 1-pc. molded construction provides effective insulation in a durable, low-cost vessel.

PET
Polyethylene terephthalate, or PET, is part of the polyester family and is lightweight and proficient at blocking moisture. PET cups are also strong and impact-resistant. Use only with cold beverages. Recyclable.

PLA
Polylactic acid fiber is a nontoxic, sustainable material made from plant-derived materials. Provides an eco-conscious alternative to petroleum-derived products.

Polystyrene
Heavy-duty, flexible cups have a medium wall construction that flexes but still remains crack-resistant, making them a perfect choice for parties and catered events.



Pathways Design



Patternless

DIXIE GA GRAINGER APPROVED

PE-Lined Paper Hot Cups

Polyethylene-lined cups help keep liquids from soaking through and provide an upscale image at an economical cost.

Capacity	Microwave Safe	Pkg. Qty.	PATHWAYS Brand	PATHWAYS Item No.	PATTERNLESS Brand	PATTERNLESS Item No.
8 oz.	NO	500	Dixie	**15J139**	—	—
8 oz.	YES	1000	Dixie	**38V882**	GA	**15J240**
10 oz.	YES	1000	Dixie	**38V884**	GA	**15J242**
12 oz.	NO	500	Dixie	**15J140**	—	—
12 oz.	YES	1000	Dixie	**38V883**	GA	**15J244**
16 oz.	YES	1000	Dixie	**38V885**	GA	**22YJ64**



Patternless Cold/Hot Cups



Viridian Hot Cups

boardwalk DIXIE

Disposable Cold/Hot Paper Cups

Save on dishwashing energy and breakage and efficiently handle hot and cold drinks. Keep coffee, tea and other hot drinks hot, and maintain the chill of cold drinks such as milk and soda. Microwave safe.

Capacity	Pattern	Color	Material	Brand	Item No.	Pkg. Qty.
Cold/Hot Cup						
8 oz.	Patternless	White	Polyethylene	Boardwalk	**659U73**	1000
12 oz.					**659U70**	
16 oz.					**659U71**	
Hot Cup						
8 oz.	Viridian	White/Green	PLA	Dixie	**659F31**	1000
12 oz.					**659V29**	
16 oz.					**659F32**	



Coffee Haze Design



White Design

DIXIE

PerfecTouch® PE-Lined Paper Hot Cups

Protect hands comfortably with a sturdy, nonslip polyethylene outer lining that helps reduce the need for double-cupping or sleeves. Attractive graphics are appealing to customers and provide an upscale appearance. Microwave safe.

Capacity	COFFEE HAZE Item No.	COFFEE HAZE Pkg. Qty.	WHITE Item No.	WHITE Pkg. Qty.
8 oz.	**1PTR3**	500	**22YJ65**	1000
8 oz.	**15J218**	1000	—	—
10 oz.	**15J217**	1000	**22YJ66**	1000
12 oz.	**1PTR8**	500	**22YJ67**	1000
12 oz.	**15J219**	1000	—	—
16 oz.	**1PTU6**	500	**22YJ68**	1000
16 oz.	**15J220**	1000	—	—

Find Cup Lids at Grainger.com®; search for "Disposable Lids".



No. 55GZ51



No. 22YJ80



No. 55GZ48

DIXIE

Polyethylene Plastic Cold Cups

Clear cups are made from recycled materials and provide a sustainable choice.

Capacity	Item No.	Pkg. Qty.
9 oz.	**55GZ51**	1000
10 oz.	**22YJ81**	500
10 oz.	**22YJ80**	1000
12 oz.	**55GZ48**	500
16 oz.	**55GZ50**	500

GA GRAINGER APPROVED

Polystyrene Plastic Cold Cups

Clear, patternless cups are lightweight and disposable for easy cleanup.

Capacity	Item No.	Pkg. Qty.
9 oz.	**4KMV6**	2500
12 oz.	**2ERU9**	1000
16 oz.	**2ERV1**	1000





No. 12N440



No. 12N441

SOLO

Polystyrene Plastic Cold Cups

Plastic cups provide additional rigidity and stability.

Capacity	Disposable Foodware Color	Item No.	Pkg. Qty.
16 oz.	Blue	**12N440**	1000
16 oz.	Red	**12N441**	1000





Wrapped

GA GRAINGER APPROVED

Polyethylene Wrapped Cold Cups

Clear plastic cups are individually wrapped.

Capacity	Item No.	Pkg. Qty.
9 oz.	**23MJ45**	1000



No. 23UA89



No. 481C42



No. 481C36



No. 481C41

DART DIXIE SOLO

PET Plastic Cold Cups

Plastic cups are crack resistant, sturdy, and yet flexible. Dart® and Dixie® cups are clear with no pattern. Bare® by Solo® cups are made from 20% post-consumer recycled content and feature an eco-friendly leaf pattern.

Capacity	Disposable Foodware Coating/Lining	Disposable Foodware Pattern	Item No.	Pkg. Qty.
DART				
16 oz.	Uncoated/Unlined	Patternless	**23UA89**	1000
DIXIE				
16 oz.	Uncoated/Unlined	Patternless	**55GZ49**	1000
SOLO CUP				
9 oz.	Polyethylene	Bare®	**481C42**	1000
12 oz.	Polyethylene	Bare®	**481C36**	2000
16 oz.	Polyethylene	Bare®	**481C37**	1000
20 oz.	Polyethylene	Bare®	**481C41**	600



No. 6ADN9



Cup and Condiment Dispensers

san jamar smart. safe. sanitary.

Cup dispensers feature an adjustable collar that easily conforms to each cup size.

Dispenser Holds	Foodservice Dispenser Mounting	Tube Length	Tube Dia.	H	W	D	Item No.
Cup Dispensers							
3 to 5 oz. Cups	Wall	16"	3"	17"	3"	3"	**6ADN9**
3 to 5 oz. Cups	Wall	16"	3½"	16½"	3½"	4"	**6ADP0**
4 to 10 oz. Cups	Wall	16"	4½"	17"	4½"	4"	**6ADL4**
4 to 10 oz. Cups	Stand	23½"	4¾"	24¾"	4¾"	4¾"	**6ADP1**
4½ to 12 oz. Cups	Wall	16"	4¾"	16¾"	4¾"	4¾"	**6ADL8**
6 to 10 oz. Cups	Wall	23½"	4⅛"	24¾"	4⅛"	4¾"	**6ADL7**
8 to 24 oz. Cups	Wall	16"	4¾"	17"	4¾"	4¾"	**6ADN3**
12 to 24 oz. Cups	Wall	23½"	4¾"	24¾"	4¾"	4¾"	**6ADP3**
12 to 24 oz. Cups	Wall	23½"	5"	24¾"	5"	5"	**6ADN2**

Description	Napkin Dispenser Cap./Fold Type	Dispenser Material	H	W	D	Item No.
Straw, Napkin, Lid, Condiment and Cutlery Dispensers						
Bulk Cutlery Stand	—	Plastic/Steel	16 37/64"	8 59/64"	12 1/16"	**483K93**
Lid and Straw Organizer Kit	—	Plastic/Steel	12½"	18 23/32"	18¾"	**483K89**
Lid and Straw Shallow Tray Organizer	—	Plastic	2¾"	5 53/64"	17"	**483K90**
Straw and Napkin Dispenser	500, Interfold	Plastic/Steel	22 5/32"	9 13/32"	13⅜"	**483K91**
Straw and Napkin Dispenser	500, Full Fold	Plastic/Steel	22 9/32"	9 13/32"	13 11/16"	**483K92**



No. 4CJ87



No. 52VG79



No. 6WA87



No. 4ECN1

DIXIE
DIXIE basic

Napkins

Description	Napkin Color	Ply	Napkin Fold Type	Napkin Folded Dimensions	Napkin Sheet Size	Uses Dispenser	Brand	Mfr. Model	Item No.	Pkg. Qty.
Dispenser Napkin										
MorNap®	White	1	Full Fold	5" x 6½"	12" x 17"	—	Dixie	37406	**45EV01**	6,000
HyNap®	White	1	Tall Fold	3½" x 6½"	7" x 13½"	No. 2U240	Dixie Basic	33201	**4CJ87**	10,000
Dixie Ultra®	Brown	2	Interfold	5" x 6½"	6½" x 9⅛"	—	Dixie	32019	**52VG79**	6,000
Dixie Ultra®	White	2	Interfold	5" x 6½"	6½" x 9⅛"	—	Dixie	32006	**52VG78**	6,000
Luncheon Napkin										
Acclaim®	White	1	¼ Fold	5¾" x 6¼"	11½" x 12½"	—	Dixie	37707	**6WA87**	6,000
Dinner Napkin										
Preference®	White	2	⅛ Fold	3¾" x 8"	15" x 16"	—	Dixie	31436	**4ECN1**	3,000



No. 29WJ76



No. 6CAE0



No. 4DB81

Stand (sold separately) No. 4DB84



No. 455A04

DIXIE DIXIE ULTRA san jamar smart. safe. sanitary.

Napkin Dispensers

Dixie Ultra® dispensers feature quick and simple loading, visual appeal, and are simple to use. One at a time dispensing is hygienic and helps reduce costs. No. 4DB81 is wall mountable, but is easily adapted for counter freestanding operation with optional No. 4DB84 base and pole stand. No. 455A04 includes a table top stand or can be wall mounted.

Napkin Fold Type	Product Series	Napkin Dispenser Capacity	Dispenser Color	Dispenser Material	D	H	W	Brand	Mfr. Model	Item No.
Countertop										
Interfold	Dixie Ultra®	300	Black	Plastic	7½"	6⅜"	5⅞"	Dixie	54527A	**29WJ76**
Interfold	Dixie Ultra®	500	Black	Plastic	13⅜"	7¼"	9¼"	Dixie	54510A	**12V372**
Interfold	—	500	White	Plastic	12 13/16"	6 39/64"	8 13/64"	Dixie Ultra	54511A	**455A03**
Low Fold	—	150	Red	Steel	4½"	6"	4½"	San Jamar	H985XGR	**6CAE2**
Tall Fold	—	150	Chrome	Steel	4½"	7¾"	4½"	San Jamar	H900XGR	**6CAE0**
Stand, Wall										
Interfold	Dixie Ultra®	1000	Black	Plastic	11"	21½"	10½"	Dixie	54223	**4DB81**
Interfold	—	1000	White	Plastic	9 5/16"	27 39/64"	8 13/16"	Dixie Ultra	54551A	**455A04**
Napkin Dispenser Base & Pole Stand, for No. 4DB81										
Interfold	Dixie Ultra®	1000	Red	Plastic/Steel	7½"	19½"	7"	Dixie	50223/01	**4DB84**

No. 485V83


No. 485V92


No. 485V98


No. 485W17

No. 485V86

Disposable Cutlery

GA GRAINGER APPROVED

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Material	Pack Count	FORK Item No.	KNIFE Item No.	TEASPOON Item No.	SOUP SPOON Item No.	SPORK Item No.
Unwrapped	Black	Heavy Weight	Polypropylene	1000	485W11	—	485V98	—	—
Unwrapped	Black	Heavy Weight	Polystyrene	1000	485V97	485V96	485W12	—	—
Unwrapped	Black	Heavy Weight	Polystyrene	1000	—	485W10	—	—	—
Unwrapped	White	Heavy Weight	Polypropylene	1000	—	—	—	485V95	—
Unwrapped	White	Heavy Weight	Polystyrene	1000	485V93	485V92	485W24	485W17	—
Unwrapped	White	Heavy Weight	Polystyrene	1000	485W07	485W06	485V94	—	—
Unwrapped	White	Medium Weight	Polypropylene	1000	—	—	—	—	485V91
Unwrapped	White	Medium Weight	Polypropylene	1000	485V83	485V82	485V84	—	485V86
Unwrapped	White	Medium Weight	Polystyrene	1000	—	—	—	485V85	—
Wrapped	Black	Heavy Weight	Polystyrene	1000	485W19	485W18	485W20	485W21	—
Wrapped	White	Medium Weight	Polypropylene	1000	485V88	485V87	485V89	485V90	—

No. 485W02

Set Contents	Pkg. Qty.	Item No.
Prepackaged Disposable Cutlery Set, Medium Weight, Polypropylene		
Fork, Knife, Spoon, Napkin	250	485W03
Fork, Spoon, Knife, Napkin, Salt, Pepper	250	485W02
Spork, Straw, Napkin	1000	485W04

Disposable Cutlery

DIXIE

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Material	Pkg. Qty.	CUTLERY SET: (60) FORKS, KNIVES, SPOONS Item No.	FORK Item No.	KNIFE Item No.	TEASPOON Item No.	SOUP SPOON Item No.	SPOON Item No.
Unwrapped	Black	Medium Weight	Polystyrene	1000	—	13F549	13F550	15J178	13F551	—
Unwrapped	Clear	Heavy Weight	Polystyrene	10	475M68	—	—	—	—	—
Unwrapped	Clear	Heavy Weight	Polystyrene	1000	—	15J147	15J154	15J174	—	—
Wrapped	Black	Heavy Weight	Polypropylene	1000	—	—	15J163	15J168	—	—
Wrapped	Black	Medium Weight	Polystyrene	540	—	45NP88	45NP89	—	—	45NP90
Wrapped	White	Medium Weight	Polypropylene	1000	—	—	15J157	15J179	—	—


No. 475M68


No. 45NP89


No. 15J168


No. 13F551

SmartStock CUTLERY DISPENSER DIXIE


No. 21AM96
Touchless


No. 21AN17
Mini

SmartStock® Dispensers and Cutlery

Enclosed dispensers store utensils and distribute one at a time for hygienic dispensing. Also help reduce waste and countertop clutter. Touchless Dispensers dispense individual utensils with guests only touching what they use; as one utensil is taken, another one automatically drops into tray. Mini Dispensers are 30% shorter and take up 30% less counter space versus the Classic SmartStock® Dispenser. Dispensers work with preassembled disposable cutlery refills, see table below.


No. 6ZCR0


No. 13F548

Foodservice Dispenser Mounting	Cutlery Dispenser Holds (pcs.)	Dispenser Color	H	W	Brand	DISPENSES FORK Cutlery Refill Mfr. No.	FORK Item No.	KNIFE Cutlery Refill Mfr. No.	KNIFE Item No.	SPOON Cutlery Refill Mfr. No.	SPOON Item No.	SPORK Cutlery Refill Mfr. No.	SPORK Item No.
Classic Dispenser													
Countertop, Stand, Wall	120	Translucent Smoke	24¾"	10"	SmartStock	SSF21P	33RL42	SSK21P	33RL43	SSS21P	33RL44	SSPK21P	33RL45
Countertop, Stand, Wall	120	Translucent Smoke	24½"	10"	SmartStock	SSFHW08	13F558	SSKHW08	13F559	SSHW08	13F560	—	—
Touchless Dispenser, Incl. (4) D-Cell Batteries													
Countertop, Stand	160	Gray	23"	10"	SmartStock	SSF11B, SSF51	21AM96	SSK11B, SSK51	21AM97	SSS11B, SSS51	21AM95	—	—
Mini Dispenser													
Countertop, Stand, Wall	80	Translucent Smoke	17 1/32"	8¼"	SmartStock	SSF11B, SSF51	21AN16	SSK11B, SSK51	21AN18	SSS11B, SSS51	21AN17	—	—

Color	Foodservice Item Weight	Material	Pkg. Qty.	Brand	FORK Mfr. Model	FORK Item No.	KNIFE Mfr. Model	KNIFE Item No.	SPOON Mfr. Model	SPOON Item No.	SPORK Mfr. Model	SPORK Item No.
Disposable Dispenser Refills, Unwrapped												
Beige	Medium Weight	Plastic	960	Dixie	SSF11B	21AN05	SSK11B	21AN07	SSS11B	21AN06	—	—
Black	Heavy Weight	Polystyrene	960	Dixie	SSFHW08	13F546	SSKHW08	13F547	SSSHW08	13F548	—	—
Black	Medium Weight	Polystyrene	960	Dixie	SSF51	6ZCR0	SSK51	6ZCR2	SSS51	6ZCR1	—	—
White	Medium Weight	Polypropylene	960	Dixie	SSF21P	13F542	SSK21P	13F543	SSS21P	13F545	SSPK21P	13F544

PrimeWare by PrimeLink Solutions, Inc.

Eco-Friendly Disposable Cutlery

Waterproof and oilproof cutlery is ideal for all hot and cold food applications. Made from renewable plant starch material resin.


No. 481C44


No. 481C43


No. 481C45

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Pkg. Qty.	FORK Item No.	KNIFE Item No.	SPOON Item No.
Unwrapped	Beige	Heavy Weight	1000	481C44	481C43	481C45

Dispenser Sublease Information

Note: The SmartStock® Cutlery Dispensers, owned by Dixie®, are not available for sale, but are subleased to end user customers by Grainger, an authorized distributor of these products. The Grainger price is therefore a one-time sublease acquisition fee. The sublease requires that only Dixie products be used in these dispensers. By paying the one-time sublicense fee, you are agreeing to be bound by such sublease. You can review the sublease by visiting the Grainger.com® listing for the relevant product.

Scan. Order. Done.
Details on page A1.


No. 38V873


No. 21AM92


No. 20Y358

DIXIE DART

GA GRAINGER APPROVED

PACTIV Advanced Packaging Solutions

Plates

Fiber plates have 100% total recycled content.

Size	Microwave Safe	Pattern	Basic Product Material	Foodservice Item Weight	Brand	Item No.	Pack Count	Packs per Case
Disposable Platter, Oval								
8⅝" x 11"	Yes	Pathways	Paper	Heavy Weight	Dixie	**38V873**	125	4
	Yes	Patternless	Paper	Heavy Weight	Dixie	**15J226**	125	4
Disposable Plate, Round								
5⅞"	Yes	Patternless	Paper	Heavy Weight	Dixie	**21AM92**	250	4
6"	No	Patternless	Foam	Light Weight	Dart	**481C49**	1000	8
	Yes	Patternless	Paper	Light Weight	GA	**39CR67**	100	10
6⅞"	Yes	Pathways	Paper	Medium Weight	Dixie	**38V881**	125	4
	Yes	Pathways	Paper	Medium Weight	Dixie	**38V880**	125	8
7"	Yes	Patternless	Paper	Medium Weight	GA	**39CR70**	250	2
8½"	—	Solo Bare	Paper	Medium Weight	GA	**12N428**	125	2
	Yes	Patternless	Paper	Medium Weight	Dixie	**39CR20**	125	4
	Yes	Pathways	Paper	Medium Weight	Dixie	**38V876**	125	4
	Yes	Pathways	Paper	Medium Weight	Dixie	**38V877**	125	8
	Yes	Pathways	Paper	Medium Weight	Dixie	**15J136**	300	2
	Yes	Pathways	Paper	Heavy Weight	Dixie	**15J134**	125	4

Size	Microwave Safe	Pattern	Basic Product Material	Foodservice Item Weight	Brand	Item No.	Pack Count	Packs per Case
9"	—	Patternless	Foam	Heavy Weight	Dart	**1JYY7**	125	4
	Yes	Patternless	Paper	Light Weight	GA	**39CR69**	100	10
	Yes	Patternless	Paper	Light Weight	GA	**39CR68**	100	12
	Yes	Patternless	Paper	Medium Weight	GA	**39CR71**	100	10
8½"	Yes	Patternless	Paper	Heavy Weight	GA	**20VG83**	125	2
9"	Yes	Patternless	Paper	Heavy Weight	GA	**20VG85**	600	1
10"	—	Patternless	Foam	Heavy Weight	Dart	**13E896**	125	4
	Yes	Patternless	Paper	Heavy Weight	GA	**20VG86**	125	2
10⅛"	Yes	Pathways	Paper	Heavy Weight	Dixie	**15J138**	125	4
Disposable Cafeteria Tray, Rectangular								
10½" x 8¼", 5 Compartment	No	Patternless	Foam	—	Pactiv	**20Y358**		


No. 38V872


No. 20VG82


No. 38V874


No. 30AC15


No. 39E393

WinCup Serving a better way!

DIXIE

GA GRAINGER APPROVED

Bowls and Buckets

Capacity	Pattern	Color	Disposable Foodware Coating/Lining	Microwave Safe	Brand	Item No.	Pkg. Qty.
Bowl							
Foam							
5 oz.	Patternless	White	Uncoated/Unlined	No	WinCup	**6GEF9**	1000
6 oz.	Patternless	White	Uncoated/Unlined	No	WinCup	**6GEG0**	1000
8 oz.	Patternless	White	Uncoated/Unlined	No	WinCup	**6GEG1**	1000
10 oz.	Patternless	White	Uncoated/Unlined	No	WinCup	**6GEG2**	1000
12 oz.	Patternless	White	Uncoated/Unlined	No	WinCup	**6GEG3**	1000
Paper							
12 oz.	Pathways	White/Brown/ Green	—	—	Dixie	**15J135**	500
12 oz.	Pathways	White/Brown/ Green	Water Based Overcoat	—	Dixie	**38V872**	1000

Capacity	Pattern	Color	Disposable Foodware Coating/Lining	Microwave Safe	Brand	Item No.	Pkg. Qty.
12 oz.	Patternless	White	Clay	Yes	GA	**20VG82**	500
20 oz.	Pathways	White/Brown/ Green	Water Based Overcoat	—	Dixie	**38V874**	500
20 oz.	Patternless	White	Clay	Yes	GA	**20VG81**	250

Cap.	Disposable Container Shape	Color	Microwave Safe	Item No.	Pkg. Qty.
GA Carry-Out Food Container					
Paper					
53 fl. oz.	Round	White	Yes	**30AC15**	300
83 fl. oz.	Round	White	Yes	**30AC14**	100
165 fl. oz.	Round	White	Yes	**39E393**	100


No. 659Z75


No. 12L822


No. 481C40

Carry-Out Containers

- Lids for round containers sold separately, see Grainger.com®

boardwalk

GA GRAINGER APPROVED

DART

SOLO

Basic Product Material	Container Lid	Microwave Safe	Max. Temp.	W	D	H	Brand	Item No.	Pkg. Qty.
Round									
Aluminum	Not Included	No	—	—	9	1 21/32	Boardwalk	**659Z75**	500
Paper	Not Included	Yes	205°F	3⅞"	—	3⅞"	GA	**12L822**	500
Paper	Not Included	Yes	205°F	4 9/16"	—	5 5/16"	GA	**12L823**	500
Plastic	Not Included	No	230°F	3"	—	3"	Dart	**485V64**	500
Square									
Fiber	Included, Hinged	No	212°F	9½"	9⅜"	3¼"	Solo Cup	**481C40**	200
Foam	Included, Hinged	No	212°F	6"	5⅞"	3"	Dart	**481C48**	500
Foam	Included, Hinged	No	212°F	9"	9⅜"	3"	Dart	**481C47**	200


No. 12M214

GA GRAINGER APPROVED

Disposable Trays

- Red/white plaid paper trays

Capacity	Microwave Safe	W	H	Item No.	Pkg. Qty.
½ lb.	Yes	5⅜"	1¼"	**12M210**	1000
1 lb.	Yes	6½"	1½"	**12M211**	1000
2 lb.	Yes	6½"	1¾"	**12M212**	1000
2½ lb.	Yes	7½"	1⅞"	**12M213**	500
3 lb.	Yes	8⅛"	2⅛"	**12M214**	500
5 lb.	Yes	9½"	2⅛"	**12N388**	500
10 lb.	Yes	11⅛"	3"	**12N389**	250


No. 39E401


No. 475M69

DIXIE

GA GRAINGER APPROVED

Portion Cups

Cap.	Color	Material	Brand	Item No.	Pkg. Qty.
1 oz.	Clear	Plastic	Dixie	**483N06**	4800
1 oz.	White	Paper	GA	**39E401**	5000
2 oz.	Black	Plastic	Dixie	**475M69**	2400
2 oz.	Clear	Plastic	Dixie	**475M70**	2400
4 oz.	Clear	Plastic	Dixie	**462C21**	2400
5.5 oz.	Clear	Plastic	Dixie	**429T76**	2400



No. 52WR58



No. 20VG61



No. 52WR44

Ground and Whole Bean Caffeinated Coffee

IRON BREW COFFEE

- 100% premium arabica beans

For more coffee options, including decaffeinated and french roast, go to Grainger.com®.

Beverage Package Style	Beverage Format	Individual Package Weight	Pkg. Qty.	Breakfast Roast (Light) Item No.	Carolina Classic (Medium) Item No.	Cerrado Gold (Full City) Item No.	French Roast (Dark) Item No.
Single Serve Cup	Ground	0.40 oz.	12	52WR57	52WR58	52WR59	52WR60
Fraction Pack	Ground	1.75 oz.	50	52WR68	20VG61	52WR69	20VG63
Pouch	Ground	12.00 oz.	1	52WR43	52WR44	52WR45	52WR46
	Whole Bean	12.00 oz.	1	52WR50	52WR51	52WR52	52WR53
	Ground	1.00 lb.	1	52WR64	—	52WR65	—
	Ground	1.00 lb.	8	—	20VG62	—	20VG64
	Whole Bean	1.00 lb.	1	52WR22	52WR23	52WR24	52WR25
	Ground	5.00 lb.	1	52WR29	52WR30	52WR31	52WR32
	Whole Bean	5.00 lb.	1	52WR36	52WR37	52WR38	52WR39



No. 40TU77

Single Serve Ground Coffee Cups

Coffee Roast/ Tea Type	Caffeine Type	Beverage Flavor	Package Net Weight	Item No.	Pkg. Qty.
Medium	Caffeinated	100% Arabica	2.37 lb.	40TU77	110
Dark	Caffeinated	French Roast	2.37 lb.	40TU79	110



No. 1BEZ3



No. 1BEZ7

Hot Chocolate and Lemonade Mixes

Flavor	Makes	Individual Package Weight	Brand	Item No.	Pkg. Qty.
Hot Chocolate					
Regular	1 Cup	0.73 oz.	Swiss Miss	1BEZ2	50
Sugar Free	1 Cup	0.55 oz.	Swiss Miss	1BEZ3	24
Lemonade					
Sugar Free	1 Cup	0.18 oz.	Crystal Light	1BEZ7	30



No. 12M201



No. 38F842



No. 4TDK7



No. 49AL52



No. 45NL35



No. 1BFL7

Ground Coffee

Description	Makes	Beverage Package Style	Net Weight	Brand	Item No.	Pkg. Qty.
Caffeinated Coffee						
Instant						
Regular Freeze-Dried	1 Cup	Packet	0.479 lb.	Taster's Choice	12M201	80
Ground						
Original	12 Cups	Fraction Pack	5 lb.	Maxwell House	1BEY8	42
Original Roast	240 Cups	Can	2.243 lb.	Maxwell House	38F842	1
Regular	8 to 10 Cups	Fraction Pack	2.29 lb.	Folgers	13E898	36
Classic Roast	10 Cups	Filter Pack	4.8 lb.	Folgers	49AL53	40
	12 Cups	Fraction Pack	4.62 lb.	Folgers	4TDK8	42
	240 Cups	Can	2.25 lb.	Folgers	45JR79	1
Ultra Roasted	12 Cups	Filter Pack	3.42 lb.	Folgers	4TDK7	40
	12 Cups	Vacuum Pack	3.35 lb.	Folgers	1BEY7	42
9 to 5 Medium Roast	160 to 180 Cups	Bag	2.10 lb.	Office Snax	23MJ64	1
Premium	10 to 12 Cups	Fraction Pack	5.90 lb.	Office Snax	23MJ66	63
100% Colombian	1 Cup	Filter Pack	0.813 lb.	Folgers	26ZL24	18
Black Silk	10 Cups	Filter Pack	4.8 lb.	Folgers	49AL54	40
	10 Cups	Fraction Pack	4.7 lb.	Folgers	49AL52	42
	190 to 200 Cups	Can	1.83 lb.	Folgers	45JR80	1
Gourmet Supreme	10 Cups	Fraction Pack	5.88 lb.	Folgers	26ZL19	42
Espresso Ground						
Regular	12 Cups	Fraction Pack	4.5 lb.	Cafe Bustelo	45NL35	30
Ground						
100% Colombian	10 Cups	Fraction Pack	5.88 lb.	Folgers	26ZL18	42
Decaffeinated Coffee						
Classic	160 to 180 Cups	Can	1.74 lb.	Folgers	1BFL7	1
Classic Roast	12 Cups	Fraction Pack	4.62 lb.	Folgers	4TDK9	42
	10 to 12 Cups	Filter Pack	3.42 lb.	Folgers	45NL32	40
Ultra Roasted	12 Cups	Vacuum Pack	3.35 lb.	Folgers	1BEY6	42



No. 1BEZ5



No. 55LE44



No. 55LE52

Tea Bags

Description	Caffeine Type	Brand	Item No.	Pkg. Qty.
Natural, Box of 100 Bags	Caffeinated	Lipton	1BEZ5	100
Green Tea Box of 15 Pk	Caffeinated	Mighty Leaf Tea	55LE44	15
Green Tea with Lemon Box of 28 Pk	Caffeinated	Bigelow	55LE52	28
Earl Grey Box of 28 Pk	Caffeinated	Bigelow	55LE53	28
English Breakfast Box of 18 Pk	Caffeinated	Bigelow	55LE54	18

For Coffee Filters, go to Grainger.com® and search for coffee filters.



No. 19YW88



No. 6GAM9

Capresso Cuisinart

Automatic Drip Coffee Makers

▪ For coffee, see page 1437

Capresso—No. 48UH48 features an Auto Off mode and uses standard paper filters and ground coffee. No. 19YW88 has a stainless steel-lined heating system to help reduce calcium deposits. No. 19YW89 features a permanent GoldTone filter.

Cuisinart—No. 6GAM9 has Brew Pause® feature that allows midcycle pouring.

Description	Color	Electrical	Warming Stations	Decanter/Carafe	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Capresso									
5-Cup	Black	120V, 15 Amps, 1500 Watts	No	Glass Decanter	10	—	8	426.05	**48UH48**
10-Cup	Black/Silver	120V, 60 Hz, 1200W	No	Stainless Steel Carafe	14	9	8	485.05	**19YW88**
12-Cup	Black	120V, 60 Hz, 900W	No	Glass Decanter	13	7¼	10	424.01	**19YW89**
Cuisinart									
4-Cup	Black	120V, 550 Watts	No	Glass Decanter	10.5	5.5	7.5	WCM04B	**6GAM9**



No. 45KK01



No. 6GAM8

TOUCH The Perfect Cup. Every Time. Cuisinart

Single Serve Coffee Brewers

Feature Auto Shutoff mode for safe operation. Coffee not included.

Touch—Quickly brew a hot cup of coffee in a minute. 30-sec. warm up time when turned on. Accept K-Cup® along with most portion pack coffee brands. Removable water reservoir.

Cuisinart—Brews an 8-oz cup in less than 4 min. Uses standard, single-serve coffee pods.

Min. Brewing Capacity	Max. Brewing Capacity	Color	Electrical	H	W	L	Mfr. Model	Item No.
Touch								
6 oz.	14 oz.	Black	120VAC	14"	8¾"	11½"	T214B	**45KJ98**
6 oz.	14 oz.	Silver	120VAC	14"	8¾"	11½"	T414S	**45KJ99**
6 oz.	18 oz.	Silver	120VAC	14"	8¾"	11½"	T526S	**45KK01**
Cuisinart								
8 oz.	1 Cup8 oz.	Black	120V, 450 Watts	99"	66"	66"	W1CM5	**6GAM8**



No. 19YW97

Coffee Grinders

Capresso

▪ Single hopper

COFFEE AND SPICE GRINDERS

Large-capacity grinders features a fast-stopping blade and see-through lid. Feature pulse mode and recessed cord storage in the base.

COFFEE GRINDERS

Conical burr grinders feature computer-controlled grinding heads 16 different grinding settings. Include measuring scoop and cleaning brush.

Description	Cap.	Voltage	Watts	H	W	D	Item No.
Coffee and Spice Grinders, Plastic							
Black	0.22 lb.	120	160	7¼"	4"	4"	**19YW97**
Silver	0.22 lb.	120	160	7¼"	4"	4"	**19YW98**
Coffee Grinders, Plastic/Stainless Steel							
Black	0.5 lb.	120	100	9½"	5½"	6½"	**19YW95**
Silver	0.55 lb.	120	100	10½"	7¾"	5"	**19YW94**

NEWCO BUNN CRESTWARE

Airpot and Infusion Coffee Brewers

- NSF Certified (except leaver airpots)
- For coffee, see page 1437

Stainless steel units brew directly into airpots (sold separately). Newco® No. 48FP52 is a fresh water system and only boils the required amount of water that is poured into the brewer, for a fresher cup of coffee. No. 48FP57 features a dump valve system and a water level detection system and a tank on/off switch. Bunn® airpot brewers include hot water faucet and cold brew lockout capability. SmartWAVE® brewers are low-profile and feature an energy-saver mode.

Infusion brewers feature preinfusion and pulse brew, energy saving mode, and 3 separate brewing profiles. Also allow full- and half-batch brewing.

Description	Plumbing Req.	Cap.	Brewing Cap.	H (in.)	W (in.)	D (in.)	Brand	Mfr. Model	Item No.
Airpot Brewers									
Pourover	No	4 gal.	0.5 gph	23 29/32	8½	17 45/64	Newco Coffee	AK-AP	**48FP52**
Automatic Electric	Yes	4 gal.	0.5 gph	23 29/32	8½	16 13/32	Newco Coffee	FC-AP	**48FP57**
CWTF Airpot, Single	Yes	102 oz.	3.8 gph	23⅝	9	18½	Bunn	CWTF Airpot	**6DHA5**
CW Aps, Pourover	No	102 oz.	3.9 gph	23⅝	9	18½	Bunn	CW Aps	**6DHD4**
Axiom APS, Single Head	Yes	102 oz.	4.2 gph	23⅝	9	18½	Bunn	Axiom APS	**6DHA1**
Axiom APS, Dual Head	Yes	102 oz.	15 gph	23½	16	17¾	Bunn	Axiom Twin APS	**6DHA2**
SmartWave Silver, Single Low Profile	Yes	102 oz.	3.9 gph	16⅞	8¾	17	Bunn	WAVE15S-APS	**6DHA3**
SmartWave, Single Low Profile	Yes	102 oz.	3.9 gph	16⅞	8¾	17	Bunn	WAVE15-APS	**6DHA4**
Infusion Brewers									
ICB Single	Yes	1.5 gal.	8.9 gph	26	11⅛	22⅜	Bunn	ICB	**6DGZ7**
ICB Black, Single	Yes	1.5 gal.	8.9 gph	26	11⅛	22⅜	Bunn	ICB Black	**6DGZ8**
ICB twin Black, Dual	Yes	1.5 gal.	18.9 gph	34	23	20	Bunn	ICB twin Black	**6DHA0**
Leaver Airpots									
Glass Lined	—	2.2L	—	16	6½	6½	Crestware	APL22G	**19H509**
Stainless Steel Lined	—	2.2L	—	15	6½	6½	Crestware	APL22S	**19H510**
Glass Lined	—	2.5L	—	18	6½	6½	Crestware	APL25G	**19H512**
Stainless Steel Lined	—	2.5L	—	15	6½	6½	Crestware	APL25S	**19H513**
Glass Lined	—	3.0L	—	17	6½	6½	Crestware	APL30G	**19H514**
Stainless Steel Lined	—	3.0L	—	16¼	6½	6½	Crestware	APL30S	**19H515**
Accessories									
Replacement Lid For Use With Crestware Airpots							Crestware		**19H516**
Insulated Server - 77 oz.							Newco Coffee		**48FP60**
Airpot Serving Rack							Newco Coffee		**48FP61**



No. 48FP52

Shown w/Airpots, Sold Separately

No. 6DHA1



No. 19H509

Decanter-Style Coffee Brewers

NEWCO BUNN CRESTWARE

- NSF Certified
- UL Listed
- 120V, 15A
- Stainless steel
- Carafes not included
- For coffee, see page 1437

Automatic Electric Coffee Brewers—Use dump valve solenoid operation for accurate brew volumes and brew temperatures. Standard ready light, pulse water inlet, gravity fed water faucet, and auto-arm with a smart multi-server base design. Plumbing required.

Pourover Coffee Brewers—Uses a traditional displacement hot water tank system, a ready light for optimum brewing temperature, and a master On/Off power switch.

Warming Stations	Cap.	Brewing Cap.	Watts	Plumbing Req.	H (in.)	W (in.)	D (in.)	Mfr. Model	Brand	Item No.	
Automatic Electric Coffee Brewers											
3	4 gal.	0.5 gph	1500	Yes	16 29/32	15 39/64	17 13/32	FC-3	Newco Coffee	**48FP56**	
3	4 gal.	0.5 gph	1500	Yes	18½	8½	21	FCS-3	Newco Coffee	**48FP55**	
3	64 oz.	3.9 gph	1500	Yes	17	16½	17¾	CWTF 15 - 3L	Bunn	**6DHC0**	
3	64 oz.	3.9 gph	1500	Yes	19	8½	17¾	CWTF 15 - 3	Bunn	**6DHA9**	
Pourover Coffee Brewers											
2	4 gal.	0.5 gph	1500	No	18½	8½	16 13/32	AK-2	Newco Coffee	**48FP50**	
2	4 gal.	0.5 gph	1500	No	18½	8½	16 13/32	AK-2AS	Newco Coffee	**48FP53**	*
2	64 oz.	3.9 gph	1575	No	26⅝	15⅞	8	VPR	Bunn	**6DHD1**	
3	4 gal.	0.5 gph	1500	No	16 29/32	15½	16 13/32	AK-3	Newco Coffee	**48FP51**	
3	4 gal.	0.5 gph	1500	No	16 29/32	15½	16 13/32	AK-3AS	Newco Coffee	**48FP54**	*
3	64 oz.	3.9 gph	1660	No	19¾	23½	8	VPS	Bunn	**6DHD2**	

Description	H	W (in.)	Dia.	Brand	Item No.
Warmer					
2 Station Warmer, 120V, 200W	3½"	14	—	Newco Coffee	**48FP65**
Replacement Decanters					
64-oz - Black	7"	6¼	6¾"	Crestware	**19H527**
64-oz - Orange	7"	6¼	6¾"	Crestware	**19H528**

Automatic warmer shutdown.



No. 48FP50



NO. 48FP51



No. 19H528

Coffee Urns

Automatic Drip—BUNN® urns feature large water tank and half-batch option. Draw off hot water during brewing cycle without affecting coffee quality.

Percolating—Coffee Pro™ Includes a permanent filter basket and locking safety lid with carrying handles.

BUNN CAMBRO

Insulated—Cambro® versatile servers can be used for both hot and cold beverages. Feature dripproof recessed spigot. Servers can be stacked for easy storage.

Description	Material	Cap.	Brewing Cap.	W x H x D	Brand	Mfr. Model	Item No.
Automatic Drip							
Twin	Stainless Steel	20 gal.	16.3 gph	34½" x 32⅜" x 21"	Bunn	U3	**6DHC2**
Percolating							
Single	Stainless Steel	—	50 Cup	12" W X 12" H	Coffee Pro	CP50	**51VN86**

Description	Material	Cap.	W x H x D	Color	Brand	Mfr. Model	Item No.
Insulated							
Single	Polyethylene	2½ gal.	16½" x 9" x 18⅜"	Black	Cambro	EA250LCD	**4UJL5**
Single	Polyethylene	2½ gal.	16½" x 9" x 18⅜"	Dark Brown	Cambro	EA250LCD	**4UJL6**
Single	Polyethylene	4¾ gal.	16½" x 9" x 24¼"	Black	Cambro	EA500LCD	**4UJL7**
Single	Polyethylene	4¾ gal.	16½" x 9" x 24¼"	Dark Brown	Cambro	EA500LCD	**4UJL8**



No. 6DHC2



No. 51VN86



No. 4UJL7

Scan. Order. Done.
Details on page A1.



Equal®



No. 4HDX5



No. 44NX60



No. 1BFL5



No. 647L14



No. 23MJ47



No. 23MJ49



No. 12M203



No. 4FCC6



No. 1BEZ8



No. 12M202



No. 12M199

Sweeteners and Creamers

Description	Size	Brand	Item No.	Pkg. Qty.
Sweeteners				
Aspartame Artificial Sweetener	0.035 oz.	Equal	**1BEZ9**	500
Saccharin Artificial Sweetener	1g	Sweet N Low	**4HDX5**	1600
Sugar Canister	20 oz.	Office Snax	**44NX60**	24
Sugar Packet	0.1 oz.	Domino	**1BFL5**	2000
Sugar Packet	0.20 oz.	Sugar In The Raw	**647L14**	400
Sugar Packet	2.8g	Office Snax	**23MJ48**	1200
Powder Creamers				
Non-Dairy Creamer Canister	12 oz.	Office Snax	**23MJ47**	24
Non-Dairy Creamer Packets	2.2g	Office Snax	**23MJ49**	800
Powder Coffee Creamer French Vanilla	15 oz.	Coffee Mate	**12M203**	12
Liquid Creamers				
Individual Liquid Coffee Creamer, French Vanilla	0.38 oz.	Coffee Mate	**4FCC6**	200
Individual Liquid Coffee Creamer, Original	0.38 oz.	Coffee Mate	**1BEZ8**	200
Liquid Coffee Creamer French Vanilla	1.5L	Coffee Mate	**26ZL37**	2
Liquid Coffee Creamer Hazelnut	0.38 oz.	Coffee Mate	**12M202**	200
Liquid Coffee Creamer Original	1.5 L	Coffee Mate	**12M199**	2



No. 38ED28



No. 38ED59

Crackers

Description	Size	Brand	Item No.	Pkg. Qty.
Keebler® Sandwich Club and Cheddar Crackers	1.8 oz.	Keebler	**38ED26**	12
Keebler® Sandwich Cheese and Peanut Butter Crackers	1.8 oz.	Keebler	**38ED27**	12
Keebler® Sandwich Crackers - Peanut Butter	1.8 oz.	Keebler	**38ED28**	12
Sunshine® Cheez-It® Crackers White Cheddar	1.5 oz.	Cheez-It	**38ED25**	8
Sunshine® Cheez-It® Crackers	48 oz.	Cheez-It	**38ED59**	1
Sunshine® Cheez-It® Crackers	1.5 oz.	Cheez-It	**38ED24**	8
Sunshine® Cheez-It® Crackers	1.5 oz.	Cheez-It	**38ED57**	45
Sunshine® Cheez-It® Crackers	1.5 oz.	Cheez-It	**38ED23**	60


No. 23MJ55


No. 23MJ57



No. 23MJ59


No. 23MJ53


No. 20VG50


No. 484P88

Snacks

Description	Size	Brand	Item No.	Pkg. Qty.
Candy				
All Tyme Mix Candy	2 lb.	Office Snax	**23MJ54**	12
	10 lb.	Office Snax	**40TU78**	1
Soft and Chewy Candy	2 lb.	Office Snax	**23MJ55**	12
	10 lb.	Office Snax	**40TU76**	1
Fancy Mix Candy	2 lb.	Office Snax	**23MJ56**	12
Tootsie Rolls	28 oz.	Office Snax	**23MJ57**	9
Suckers	220 pcs.	Office Snax	**23MJ60**	4
	1440 pcs.	Office Snax	**23MJ59**	1
Sugar Free Assorted Fruit Candy	160 pcs.	Office Snax	**23MJ61**	12
Hard Candy	10 lb.	Office Snax	**484P89**	1
Jelly Beans	0.35 oz.	Jelly Belly	**484P90**	300
Snacks				
Peanut Butter Pretzels	44 oz.	Office Snax	**23MJ53**	6
Graham Cracker Pretzels	32 oz.	Office Snax	**20VG50**	6
Peppermints				
Peppermint Puffs	10 lb.	Office Snax	**484P88**	1



Dog Treats

Ingredients: wheat flour, meat and bone meal, ground corn, soybean meal, poultry fat and salt.

Description	Flavor	Size	Item No.
Doggie Biscuits	Assorted	10 lb.	**23MJ63**

Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)

Snack Bars



No. 38ED61



No. 38ED41

Description	Flavor	Size	Item No.	Pkg. Qty.
Kashi				
Kashi TLC Chewy Granola Bars	Honey Almond Flax	35 g	**38ED46**	12
Kind				
KIND Plus Nutrition Boost Bar	Cranberry Almond plus Antioxidants	1.4 oz.	**38ED61**	12
KIND Plus Nutrition Boost Bar	Pomegranate Blueberry Pistachio Plus Antioxidants	1.4 oz.	**38ED62**	12
KIND Plus Nutrition Boost Bar	Chocolate Cherry Cashew Plus Antioxidants	1.4 oz.	**38ED63**	12
KIND Plus Nutrition Boost Bar	Peanut Butter Dark Chocolate Plus Protein	1.4 oz.	**38ED64**	12
KIND Fruit and Nut Bar	Fruit and Nut Delight	1.4 oz.	**38ED65**	12
KIND Fruit and Nut Bar	Almond, Coconut	1.4 oz.	**38ED66**	12
KIND Nuts and Spices Bar	Madagascar Vanilla Almond	1.4 oz.	**38ED67**	12
KIND Nuts and Spices Bar	Dark Chocolate Nuts with Sea Salt	1.4 oz.	**38ED68**	12
Special K				
Kellogg's® Special K® Protein Meal Bar	Strawberry	1.59 oz.	**38ED33**	8
Kellogg's® Special K® Protein Meal Bars	Chocolate, Peanut Butter	1.59 oz.	**38ED34**	8
Nutrigrain				
Kellogg's® Nutri-Grain® Cereal Bars	Apple Cinnamon	1.3 oz.	**38ED41**	16
Kellogg's® Nutri-Grain® Cereal Bars	Blueberry	1.3 oz.	**38ED42**	16
Kellogg's® Nutri-Grain® Cereal Bars	Raspberry	1.3 oz.	**38ED43**	16
Kellogg's® Nutri-Grain® Cereal Bars	Strawberry	1.3 oz.	**38ED44**	16



No. 38ED21



No. 38ED30



No. 38ED49



No. 38EE14

Cereal and Cereal Treats

Description	Size	Item No.	Pkg. Qty.
Cereal			
Froot Loops, Kellogg's®	1.5 oz.	**38ED19**	6
Frosted Flakes, Kellogg's®	2.1 oz.	**38ED21**	6
Raisin Bran, Kellogg's®	2.8 oz.	**38ED22**	6
Frosted Mini Wheats, Kellogg's®	2.5 oz.	**38ED49**	6
Real Medleys Oatmeal Apple Walnut, Quaker®	2.64 oz.	**38EE14**	12
Cereal Treats			
Rice Krispies® Treats, Kellogg's®	1.3 oz.	**38ED30**	20



No. 38ED35



No. 38ED36

Candy and Fruit Snacks

Description	Flavor	Size	Brand	Item No.	Pkg. Qty.
Kellogg's® Fruity Snacks	Assorted - Berry	2.5 oz.	Kellogg's	**38ED35**	48
Kellogg's® Fruity Snacks	Strawberry	2.5 oz.	Kellogg's	**38ED36**	48



No. 38ED29



No. 38ED55



No. 38ED60



No. 38ED71

Cookies

Description	Size	Brand	Item No.	Pkg. Qty.
Keeblers® Mini Fudge Stripes	2 oz.	Keebler	**38ED29**	8
Austin® Zoo Animal Crackers	2 oz.	Austin	**38ED55**	36
Austin® Zoo Animal Crackers	2 oz.	Austin	**38ED48**	80
Famous Amos Cookies - Chocolate Chip	2 oz.	Famous Amos	**38ED60**	8
Grandma's® Mini Vanilla Crème Sandwich Cookies - Vanilla	3.71 oz.	Grandma's	**38ED71**	24



No. 38EC84



No. 38EC85



No. 38EC86

Microwave Popcorn

Flavor	Size	Item No.	Pkg. Qty.
Butter	1.2 oz.	**38EC84**	10
Homestyle	1.2 oz.	**38EC85**	10
Movie Theatre Butter	1.75 oz.	**38EC86**	10
Movie Theatre Butter	3.5 oz.	**38EC96**	6



No. 38EC93



No. 38EC98

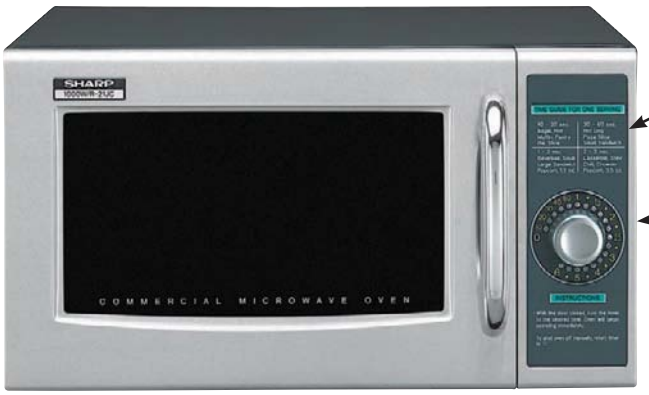


No. 38ED06

Trail Mix and Nuts

Description	Size	Item No.	Pkg. Qty.
Dry Roasted Almonds	5 oz.	**38EC90**	6
Deluxe Mixed Nuts	5 oz.	**38EC93**	6
Walnuts and Almonds	0.56 oz.	**38EC94**	7
Dark Chocolate Cocoa Roast Almonds	0.63 oz.	**38EC98**	7
Dark Chocolate Cocoa Roast Almonds	5 oz.	**38ED01**	6
Roasted & Salted Whole Cashews	5 oz.	**38ED06**	6
Cashews Sea Salt and Pepper Cashews	1.25 oz.	**38ED08**	12

Scan. Order. Done.
Details on page A1.



Heating Time Guide recommends times for heating a variety of popular foods

Dependable 6-Minute Electronic Dial Timer is clearly marked in 10, 15 and 30-second increments

No. 6T392



No. 6T038



No. 21HE87



No. 21HE86



No. 40GR47



No. 24T746



No. 24T745



No. 40GR49



No. 40GR48



No. 31EV59

Countertop Microwave Ovens

SHARP ★ GA GRAINGER APPROVED DAEWOO FRIGIDAIRE

- 1 touch settings
- Without convection cooking
- 120V

Commercial—Compact units feature automatic cook options that allow 1-touch cooking. Feature extremely durable hinges and handles that are suitable for high-volume use. Stainless steel interior is designed without a turntable to promote even cooking and allow for easy cleaning. Commercial UL Listed (E44459). C-UL Listed. NSF Certified. Meet FCC and DHHS standards.

Consumer—Cost-effective units are ideal for home use including several minutes a day of run time. Include turn table to help eliminate hot spots and cook or defrost food more evenly. UL Listed.

Cooking Wattage	Oven Capacity	Appliance Color	Features	Power Levels	Outside W	Outside H	Outside D	Brand	Mfr. Model	Item No.
Commercial, Without Turntable										
1000	0.95 cu. ft.	Stainless Steel	10 Memory Presets, Digital Display	11	20½"	12⅛"	16"	Sharp	R21LTF	**6T038**
		Stainless Steel	10 Memory Presets, Dial Timer	1	20½"	12⅛"	16"	Sharp	R21LCFS	**6T392**
1200	0.75 cu. ft.	Stainless Steel	10 Memory Presets (100 Total),Defrost Setting	11	17½"	13⅝"	20½"	Sharp	RCD1200M	**4GVY6**
Consumer, With Turntable										
900	0.90 cu. ft.	Black	—	—	19¹⁄₆₄"	11¹⁄₁₆"	14⅛"	GA	21HE87	**21HE87**
		White	8¹¹⁄₁₆" H x 13⅜" W x 14⅛" D, Turntable System	—	19¹⁄₆₄"	11¹⁄₁₆"	14⅛"	GA	21HE86	**21HE86**
1000	1.10 cu. ft.	Black	Counter Top, Painting Cavity	9	21¼"	11¹³⁄₁₆"	16¹¹⁄₁₆"	GA	40GR47	**40GR47**
		Silver	Concave Reflex System, 5 Auto Cook Menu, Auto Defrost, Child Safety Lock System	10	20¼"	12"	14¾"	Daewoo	40GR51	**40GR51**
		Stainless Steel	4-digit, LED, 30-sec. plus cook button, and 5 auto cook menus	10	20⅓"	12"	15"	Sharp	R331ZS	**24T746**
		White	4-digit, LED, 30-sec. plus cook button, and 5 auto cook menus	10	20⅓"	12"	15"	Sharp	SMC1131CW	**24T745**
		White	Painting Cavity	—	21¼"	11¹³⁄₁₆"	16¹¹⁄₁₆"	GA	40GR49	**40GR49**
	1.30 cu. ft.	Silver	Concave Reflex System, Auto Defrost, Child Safety Lock System	10	22¼"	12½"	16¾"	Daewoo	40GR50	**40GR50**
1100	1.60 cu. ft.	Black	Melt and Soften Easy-Set Start	10	21¾"	12⅞"	18½"	Frigidaire	FFMO1611LB	**31EV60**
		Silver	Concave Reflex System, Auto Defrost, Child Safety Lock System	—	23¼"	13½"	18½"	Daewoo	40GR48	**40GR48**
		Stainless Steel	Melt and Soften Easy-Set Start	10	21¾"	12⅞"	18½"	Frigidaire	FFMO1611LS	**31EV58**
		White	Melt and Soften Easy-Set Start	10	21¾"	12⅞"	18½"	Frigidaire	FFMO1611LW	**31EV59**


No. 36RC66


No. 36RC68


No. 36RC67


No. 36RC69


No. 36RC70


No. 36RC71


No. 36RC72
(Single Serve Cup Holder Included)


No. 36RC76



No. 32GM82

Officemate OIC Ziploc

Breakroom Storage

Description	Overall Height	Overall Width	Overall Depth	Item No.
Breakroom Storage Organizers				
Napkin/Towel Holder	15⅛"	16"	8"	**36RC65**
Multi Organizer - Includes (3) Condiment Trays, (4) Dividers	10⅜"	18³⁄₁₀"	14"	**36RC66**
Rotary Condiment/Cutlery Organizer - Includes (4) Condiment Trays, (4) Containers	11⅛"	11"	11"	**36RC67**
Cup/Cutlery Holder - Includes (2) Removable Side Pockets	14⁹⁄₁₀"	16⁷⁄₁₀"	5⁷⁄₁₀"	**36RC68**
Vertical Condiment Organizer - Includes (4) Condiment Trays, (4) Dividers	15⅛"	7⅜"	18⅜"	**36RC69**
Wide Condiment Organizer - Includes (3) Condiment Trays, (6) Dividers	8"	13½"	17"	**36RC70**
Condiment Tower - Includes (3) Condiment Trays, (3) Dividers	18⅛"	7⅜"	9⁷⁄₁₀"	**36RC71**
Giant Condiment Organizer - Includes (3) Condiment Trays, (6) Dividers, Serve Capsule Holder	15⅛"	15½"	11⅛"	**36RC72**
Replacement Trays				
Upper Cup for No. 36RC67, Pkg. of 2	4"	3¾"	3¾"	**36RC73**
Base Tray for No. 36RC67, Pkg. of 2	1⅜"	5⅜"	5⅜"	**36RC74**
2 Trays/2 Dividers for Nos. 36R69 & 36RC71	2½"	8⁷⁄₁₀"	6¼"	**36RC75**
Small 2 Trays/4 Dividers for Nos. 36R66 & 36RC70	2½"	12⁷⁄₁₀"	4¾"	**36RC76**

Description	L	W	Std.	Item No.
Ziploc Reclosable Bags, Clear				
Ziploc Sandwich, 500 Bags	6½"	5⅞"	FDA	**32GM81**
Ziploc Quart Storage, 500 Bags	7⁷⁄₁₆"	7"	FDA	**32GM85**
Ziploc Gallon Storage, 250 Bags	10¹⁵⁄₁₆"	10½"	FDA	**32GM82**


No. 46AD41


No. 46AD42


Sugar Dispenser
No. 46AD34


No. 46AD39

can honey do INTERNATIONAL

Cereal, Sugar and Coffee Dispensers

Color	W x D x H	Item No.
Single Cereal Dispenser, 17½ oz.		
Brushed Stainless Steel Stand	7" x 6½" x 15"	**46AD41**
Dual Cereal Dispenser, 35 oz.		
Brushed Stainless Steel Stand	14⁵⁄₁₆" x 6½" x 15"	**46AD42**
Sugar Dispenser, w/Measuring Spoons, 6 oz.		
Black/Chrome	2⅛ x 2⁹⁄₁₆ x 8⁵³⁄₆₄	**46AD35**
Silver/Chrome		**46AD34**
Coffee Dispenser, 8 oz.		
Black/Chrome	4¾ x 6½ x 15	**46AD39**
White/Chrome		**46AD40**

BUNN

Coffee Filters

Sturdy basket-shaped coffee filters hold coffee grounds and allow coffee to flow through.

Coffee Filter Size	Base Diameter	Flat/Top Diameter	For Use With	Item No.	Pkg. Qty.
6 gal.	8¾"	21"	6 Gallon Coffee Urns	**20Y349**	250
10 gal.	10¾"	24¼"	10 Gallon Coffee Urns	**20Y348**	252


No. 20Y348


No. 30XN07


No. 30XN02


No. 30XM92


No. 30XM84

Kitchen Organizers

Help organize your kitchen or breakroom counterspace, cabinets, and drawers with these innovative storage solutions.

Description	H	W	L	Finish	Mfr. Model	Item No.
Cutlery Trays						
1 Compartment	2"	3"	6"	Powder Coated	KCH-02158	**30XN09**
1 Compartment	2"	3"	9"	Powder Coated	KCH-02159	**30XN10**
1 Compartment	2"	3"	12"	Powder Coated	KCH-02160	**30XN11**
1 Compartment	2"	6"	9"	Powder Coated	KCH-02161	**30XN12**
1 Compartment	2"	6"	15"	Powder Coated	KCH-02155	**30XN08**
1 Compartment	9¾"	6½"	12½"	Powder Coated	KCH-02156	**30XN07**
3 Compartment	2"	11"	16"	Powder Coated	KCH-02157	**30XN05**
5 Compartment	2"	9¼"	12¼"	Powder Coated	KCH-02154	**30XN03**
6 Compartment	2"	11¼"	16"	Powder Coated	KCH-02162	**30XN04**
Expandable Cutlery Tray	2"	20¼"	16½"	Powder Coated	KCH-02163	**30XN06**
Kitchen Cabinet Racks & Organizers						
Cabinet Organizer, Incl. Basket	10½"	17½"	11¾"	Chrome	SHF-03525	**30XN02**
Cabinet Organizer, Incl. Basket	11"	17¾"	14¾"	Chrome	SHF-01867	**30XN01**
Organizer Rack	8"	9¾"	15¾"	PE Coating	KCH-01869	**30XM92**
Paper Towel Dispenser	6½"	6½"	14"	—	KCH-01077	**30XM84**
Plate Organizer	5⅝"	5"	10¾"	PE Coating	KCH-02165	**30XM97**
Shelf Organizer	26"	14⅞"	6"	PE Coating	KCH-04370	**30XM99**


No. 22YK01


No. 22YK05


No. 22YK14


No. 22YJ98


No. 22YJ99

Café and Bistro Tables

Contemporary, sleek tables and chairs invite people to come together whether it's for a quick meeting or spontaneous break with coworkers. Tables feature melamine top and underside seal help prevent moisture absorption with T-mold edge. Sturdy, all steel powder-coated silver base with adjustable feet help with uneven flooring. Chairs are ergonomically designed for comfort. Feature seat pan and back for extra support and ease of getting in and out of chair. Easy-to-clean and dent-and-scratch resistant. Powder-coated steel tube frame with nonmarring feet. 15-yr. limited manufacturer's warranty.

Description	H	WALNUT Item No.	GRAY Item No.	GRAPHITE GRANITE Item No.
Cafe Tables				
36" x 36" Square	30"	**22YK01**	**22YK02**	**22YK03**
36" Round	30"	**22YK05**	**22YK04**	**22YK06**
Bistro Tables				
36" x 36" Square	42"	**22YK08**	**22YK07**	**22YK09**
36" Round	42"	**22YK12**	**22YK13**	**22YK14**

Description	Back/Seat Color	H	Item No.	Pkg. Qty.
Cafe Chair				
19" Depth	Graphite	32"	**22YJ98**	2
Bistro Stool				
22" Depth	Graphite	44"	**22YJ99**	1


No. 48PD62


No. 48PD63


No. 48PD66


No. 48PD68


No. 48PD79


No. 48PD70


No. 48PD72


No. 48PD65

Water Bottles and Insulated Mugs

Description	Cap.	Color	Item No.
Water Bottle - Plastic			
AUTOSEAL® Cortland			
Features AUTOSEAL®, One Handed, Spout Cover	24 oz.	Grayed Jade/Green	**48PD62**
		Sangria/Red	**48PD63**
Jackson			
Features Carry Loop, Flip Top	24 oz.	Smoke/Gray	**48PD66**
		Grayed Jade/Green	**48PD67**
Shake & Go® Fit			
Features No Mess Mixing, Easy Cleaning, Rounded Bottom, Weighted Shaker Ball, Carry Handle	28 oz.	Blue	**48PD68**
		Black	**48PD69**
Insulated Mug - Stainless Steel			
AUTOSEAL® West Loop			
Features AutoSeal Lid, Keeps drinks hot for up to 7 hours and cold for up to 18 hours	16 oz.	Black	**48PD75**
		Stainless Steel	**48PD74**
	20 oz.	Black	**48PD78**
	24 oz.	Stainless Steel	**48PD79**
SNAPSEAL™ Byron			
Features SnapSeal Lid, Keeps drinks hot for up to 5 hours and cold for up to 12 hours	16 oz.	Gunmetal	**48PD71**
		Vivacious	**48PD70**
	20 oz.	Gunmetal	**48PD72**
		Vivacious	**48PD73**
Thermalock™ Extreme			
Features THERMALOCK™ Vacuum Insulation, Clip-On Handle, Keeps drinks hot for up to 4 hours and cold for up to 12 hours	16 oz.	Silver	**48PD64**
		Black	**48PD65**

Meal Delivery Carts

LAKESIDE® DINEX® A CARLISLE COMPANY CAMBRO

- See Grainger.com® for more delivery carts

Carts are easy to clean and will not rust, dent, crack, chip or break. Hold hot or cold foods.

Total Quiet™ Stainless Steel Carts—Offer you a design with notable sound dampening where quiet is a needed commodity. Constructed of 14-ga. stainless steel.
- 250-lb. load capacity
- 2 rigid, 2 swivel casters

Aluminum Carts—No. 2NKJ6 has vertical push handles for easy maneuvering.
- Door folds out 270°
- Corner bumpers

Polyethylene Carts—Feature foam insulation, door gaskets, hinges, and latches. Molded-in handle on back. No. 2MGH3 has a removable cutting board top. No. 2MGG8 includes hardware security package. Trays not included.
- Shipped assembled with 6" casters



No. 40XC02



No. 4UJN9



No. 2MGH3

External Dim. W x D x H	No. of Compart.	Tray Size	Tray Cap.	Color	Caster Type	Brand	Item No.
Stainless Steel Carts							
17¼ x 25¼ x 46⅞"	1	14 x 18, 15 x 20, 16 x 22	6/1	Silver	(4) Swivel	Lakeside	**2NKH8**
Total Quiet™ Carts - 1 Tray/Shelf							
27 19/32" x 25 41/64" x 45 1/16"	1	12" x 19", 12" x 20", 12" x 22", 14" x 18", 13" x 21", 15" x 20"	6	Stainless Steel	2 Rigid, 2 Swivel	Carlisle Dinex	**40XC24**
27 19/32" x 25 41/64" x 55 13/16"	1		8	Stainless Steel		Carlisle Dinex	**40XC12**
Total Quiet™ Carts - 2 Trays/Shelf							
36 7/32" x 31 41/64" x 39 51/64"	1	12" x 19", 12" x 20", 12" x 22", 14" x 18", 13" x 21", 15" x 20"	10	Stainless Steel	2 Rigid, 2 Swivel	Carlisle Dinex	**40XA94**
	1		10	Stainless Steel		Carlisle Dinex	**40XC07** *
36 7/32" x 31 41/64" x 50 35/64"	1		12	Stainless Steel		Carlisle Dinex	**40XC02**
	1		14	Stainless Steel		Carlisle Dinex	**40XC20**
Aluminum Carts							
24¾ x 32¾ x 60⅛"	1	14 x 18	20/1	Silver	(2) Swivel, (2) Wheels	Lakeside	**2NKJ4**
26¾ x 34¾ x 60⅛	1	15 X 20	20/1	Silver		Lakeside	**2NKJ6**
Polyethylene Carts							
28 x 36½ x 58⅛"	2	14 x 18	16/8	Granite Gray	2 Swivel (With Brake), 2 Rigid	Cambro	**4UJP4**
30⅝ x 39⅛ x 58⅛"	2	15 x 20	16/8	Granite Gray		Cambro	**4UJP3**
48½ x 32½ x 44"	2	14 x 18	20/10	Granite Gray		Cambro	**4UJP2**
55⅛ x 38 x 43¼"	2	15 x 20	20/10	Blue		Cambro	**4UJN8**
	2		20/10	Granite Gray		Cambro	**4UJN9**
For Trays & Sheet Pans							
21½" x 32" x 37½"	1	18 x 26	7	Brown	2 Swivel (1 With Brake), 2 Fixed	Cambro	**2MGH3**
21½" x 33¼" x 63¾"	2		24	Brown	(1) Swivel, (1) Swivel with Brake, (2) Rigid	Cambro	**2MGG6**
	2		24	Brown	2 Swivel (1 With Brake), 2 Fixed	Cambro	**2MGG8**

** Pass-through style.*

DINEX® A CARLISLE COMPANY

Non-Skid Trays



- Pkg. of 12
- ¾" depth

Feature fiberglass construction with super-grip surface. Stain-, scratch- and odor-resistant. Dishwasher safe.

Overall Length (in.)	Overall W (in.)	▶CHOOSE: Color	Item No.
18	14	Black, Gray, Latte	**J4698**
20¼	15	Black, Gray, Latte	**J4699**



No. 41H586



No. H4730 Base, Black

DINEX® A CARLISLE COMPANY

Induction Chargers and Bases

Engineered for use in commercial kitchens and feature user-friendly LCD and control panel. Easy-to-clean composite top surface. Smart therm senses base automatically and gives the correct amount of heat to allow consistent temperature every time. Automatic shut-off feature prohibits overheating. Single unit works on all 208V, 220V and 240V systems. Base cycle time ranges from 14 to 19 sec. depending on voltage supply.

Description	▶CHOOSE: Color	Item No.
Smart•Therm II® Induction Heating System	Black	**41H586**
Bases for Smart•Therm II®	Black, Latte, Dark Blue, Cranberry, Sage	**H4730**



Heritage Bowl



Turnbury Mug



Fenwick Insulated Bowl

DINEX® A CARLISLE COMPANY

Meal Tray Top Dinnerware

Serving products specific for the healthcare industry. Double-wall insulated with ozone-safe insulation and suitable for hot or cold foods, except tumblers are uninsulated and not for hot beverages. All dinnerware is not recommended for use in microwave. Mugs feature a heavy-duty handle for secure, 3-finger holding. Insulated Domes are designed for high food clearance.

▶CHOOSE: Size	▶CHOOSE: Color	Series	Item No.	Pkg. Qty.
Bowls				
5 oz., 9 oz.	Onyx, Cranberry, Midnight Blue	Heritage	**D7747**	48
	Onyx, Cranberry, Midnight Blue, Latte, Hunter Green, Sage	Turnbury	**D7748**	48
Insulated Bowls				
5 oz., 9 oz.	Onyx, Latte, Cranberry, Sage	Fenwick	**H2193**	48
Insulated Domes				
10"-dia. x 2⅞"H	Onyx, Cranberry, Midnight Blue	Heritage	**D7742**	12
	Midnight Blue, Onyx, Latte, Cranberry, Sage	Fenwick	**H2194**	12
Mugs				
8 oz.	Onyx, Cranberry, Midnight Blue	Heritage	**D7745**	48
	Onyx, Cranberry, Midnight Blue, Latte, Hunter Green, Sage	Turnbury	**D7746**	48
	Dark Blue, Onyx, Latte, Cranberry, Sage	Fenwick	**H2192**	48
Tumblers				
6 oz.	Clear	Tumblers	**6ADU9**	72
9 oz.			**6ADV0**	72
12 oz.			**6ADV1**	72



LAKESIDE
GA GRAINGER APPROVED

Stainless Steel Kitchen Utility Carts

300-lb. Load Capacity—22-ga. shelves and 20-ga. legs. 3½" swivel casters.

450-lb. Load Capacity—20-ga. shelves with 1" lip height, and 150-lb. load capacity per shelf. Four 4" swivel casters, 2 with brake. NSF Certified.

500-lb. Load Capacity—20-ga. shelves. 4" swivel casters, except No. 20VF46 has 5" casters. Horizontal square tube handle.

700-lb. Load Capacity—18-ga. shelves are stain and rust-resistant. Include ergonomic handles. Two 5" swivel and two 8" rigid casters.

1000-lb. Capacity—11- and 14-ga. shelves. Two 5" swivel and two 8" rigid casters. NSF Certified.

No. of Shelves	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.	
300-lb. Load Capacity									
3	18⅜"	16⅝"	18¾"	16¾"	30⅛"	10¾"	Lakeside	**20VF43**	
	24"	15½"	27½"	16¼"	32⅛"	11¾"	Lakeside	**20VF41**	
	27"	18"	30¾"	18⅜"	33"	12¼"	Lakeside	**20VF42**	
450-lb. Load Capacity									
3	30¼"	18⅛"	35"	21"	36"	10¼"	GA	**35ZW26**	
500-lb. Load Capacity									
3	24"	15½"	27⅝"	16¾"	32"	11½"	Lakeside	**20VF44**	
	27"	18"	31"	19"	32"	11½"	Lakeside	**20VF45**	
	35"	21"	39¼"	22⅜"	37¼"	13⅛"	Lakeside	**20VF46**	
700-lb. Load Capacity									
2	27"	18"	32⅝"	19⅜"	35½"	19"	Lakeside	**20VF47**	
	27"	18"	35⅜"	18⅝"	46¾"	18½"	Lakeside	**2XJH4**	*
3	27"	18"	35⅜"	18⅝"	46¾"	10"	Lakeside	**2XJH5**	*
1000-lb. Load Capacity									
2	33"	21"	41⅜"	21⅝"	46¾"	18½"	Lakeside	**2XJH8**	*
	42"	24"	48"	25¾"	37⅜"	21"	Lakeside	**2XJJ3**	

** Ergonomic handle.*



Tray and Silverware 2-Sides Open



Tray and Glass 2-Sides Open



Cantilever Dispenser

CAMBRO
LAKESIDE

Tray, Silverware, and Glass Dispensing Carts

- 4 swivel casters, 2 with brake

Tray and Silverware—Stainless steel. 500-lb. load capacity with 20-ga. steel shelves. No. 4UJH7 is blue polyethylene and includes vinyl cover.

Tray, Glass, and Cantilever Dispensers—Adjustable dispensing levels. Platform base stores trays or racks and has corner bumpers. NSF Certified.

Description	Overall L (in.)	Overall W (in.)	Overall H (in.)	Tray Cap. (lb.)	Tray Size (in.)	Brand	Item No.
Tray and Silverware							
2-Sides Open	32⅜	21¼	45½	180 to 200	14 x 18	Cambro	**4UJH7**
4-Sides Open	36¼	22¼	39¾	120	16 x 22	Lakeside	**2NJZ3**
4-Sides Open	34¾	22½	39¾	130	16 x 22	Lakeside	**2NJZ2**
Tray and Glass							
2-Sides Open	19⅞	23¾	36⅛	150	14 x 18, 15 x 20	Lakeside	**2NJZ6**
4-Sides Enclosed	19⅞	23¾	36⅛	150	14 x 18, 15 x 20	Lakeside	**2NJZ9**
Cantilever Dispenser							
Single Platform	31½	23½	36½	—	20 x 20	Lakeside	**2NKA3**

Find more Food Service Carts on Grainger.com®.



CRESTWARE

Kitchen Utility Cart

- Polypropylene
- 3 shelves
- Shipped unassembled
- Gray color
- 4 swivel casters

Extruded aluminum legs.

Shelf Length	Shelf Width	Overall Length	Overall Width	Top Shelf Height	Distance Between Shelves	Load Capacity	Item No.
24½"	16"	24½"	16"	36"	13"	265 lb.	**38EW09**



No. 2MGD8

GA GRAINGER APPROVED
CAMBRO
LAKESIDE

Bussing Carts

- Shipped assembled
- NSF Certified (except Lakeside® models)

Enclosed carts feature leg and handle bumpers and 3 shelves (except No. 2XJJ8 has 4). Cambro® models feature 1-pc. durable polyethylene with molded in handles and shelves. See Grainger.com® for shelf size information.

Load Capacity	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Caster Type	Brand	Item No.
2-Sided Enclosed Polyethylene							
350 lb.	28"	16"	32¼"	11"	(2) Rigid, (1) Swivel, (1) Swivel with Brake	GA	**2MGD8**
350 lb.	28"	16"	32¼"	11"	(3) Swivel, (1) Swivel with Brake	Cambro	**2MGD9**
3-Sided Enclosed Polyethylene							
500 lb.	33⅛"	20"	34⅝"	11"	(2) Rigid, (1) Swivel, (1) Swivel with Brake	GA	**2MGE5**
500 lb.	33⅛"	20"	34⅝"	11"	(3) Swivel, (1) Swivel with Brake	GA	**2MGE6**
3-Sided Enclosed Stainless Steel							
300 lb.	27¾"	16½"	32¾"	8"	(4) Swivel	Lakeside	**2XJJ8**
500 lb.	39¼"	22½"	37⅜"	13⅛"	(4) Swivel	Lakeside	**2XJK1**
700 lb.	39⅝"	22½"	37"	12"	(2) Rigid, (2) Swivel	Lakeside	**2XJK3**



No. 5EMN4



No. 5EMN3

Adjustable Dish Caddies

CRES COR
GA GRAINGER APPROVED

Hold most popular sizes of dishware. Protective plastic coating at points of contact with dishware. No. 5EMN4 includes 2 adjustable adapters. No. 5EMN3 includes 12 adjustable hex rods. Aluminum models have 5" swivel casters, 2 with brake. No. 4UJH8 has 5" casters, 2 rigid and 2 swivel casters with brake.

Overall Length	Overall Width	Overall Height	Brand	Item No.
Aluminum				
23"	23"	32"	Cres Cor	**5EMN4**
27⅛"	27⅛"	32"	Cres Cor	**5EMN3**
Polyethylene				
37⅞"	28⅝"	31⅞"	GA	**4UJH8**

Dishwashers

Insinger

Commercial Undercounter—Energy-efficient, automatic, hot water sanitizing dishwasher has a timed wash and rinse cycle with 7 bayonet-style wash arms and 42 fixed wash jets. Includes built-in detergent and rinse-aid pumps, food soil strainer system, and 2 plastic 20" x 20" racks. Cleans up to 750 dishes per hour.

Commercial Door-Type—Automatic, single tank dishwashers have timed wash and rinse cycles and a selectable 2-min. extended wash cycle. Feature easy-to-clean front-mounted wash tank, door safety switch, and easy-glide doors. Clean up to 1625 dishes per hour.

- Nos. 14U202 and 14U199 meet ETL and NSF standards

Commercial Conveyor—Automatic, rack-type dishwashers have recirculating wash and freshwater final rinse cycles. All except No. 14U212 include a prewash cycle.

Nos. 14U212, 14U216, and 14U217 are single-tank models featuring telescoping insulated doors and can clean up to 5825 dishes per hour.

Nos. 14U220 and 14U221 are double-tank models with inspection doors and low-water protection and can clean up to 6925 dishes per hour.



No. 14U197



No. 14U212



No. 14U220

Includes	Racks per Hour	Water Used	Direction	H	W	D	Item No.	
Commercial Undercounter - Rinse Temp: 180°								
Built-In Booster	30	.79 gal.	—	33¼"	23"	25"	**14U197**	
Commercial Door-Type - Rinse Temp: 180°								
Built-In Booster	65	.72 gal.	—	70"	24"	30⅛"	**14U199**	*
Built-In Booster	65	.72 gal.	—	81"	24"	30⅛"	**14U202**	*
Commercial Conveyor - Rinse Temp: 180°								
Built-In Booster	233	.63 gal.	R-L	67⅜"	44"	31¼"	**14U212**	*
Built-In Booster	233	.63 gal.	R-L	67⅜"	66"	31¼"	**14U216**	*
Built-In Booster	233	.63 gal.	L-R	67⅜"	66"	31¼"	**14U217**	*
Power Rinse	277	.52 gal.	R-L	67⅜"	86"	31¼"	**14U220**	*
Power Rinse	277	.52 gal.	L-R	67⅜"	86"	31¼"	**14U221**	*

** Sign-off on unit dimensions is required before order can be fulfilled.*

CRESTWARE

Bus Tubs

- NSF Certified
- 22½"L



No. H6051

Stackable, handled kitchen bus tubs are constructed from durable polyethylene. Feature ribbed interior surface.

L	W	H	▶CHOOSE: Color	Item No.
Bus Tubs				
22½"	15¾"	5"	Black, Brown, Gray, White	**H6051**
22½"	15¾"	7"	Black, Brown, Gray, White	**H6052**
Bus Tub Lids				
22½"	15¾"	1"	Black, Brown, Gray, White	**H6053**



No. 41G577



No. 19H523 (Flatware & Cylinders not included)



No. 41G578



No. 19H524

CRESTWARE

Flatware Cylinders

For use with most flatware washing systems.

Description	Material	H	W	Item No.
Silverware Cylinder	Poly	5¼	4½	**41G577**
Silverware Cylinder	Stainless Steel	5½	4½	**41G578**
Flatware Dispenser, 4 Hole	Stainless Steel	8"	10"	**19H523**
Flatware Dispenser, 6 Hole	Stainless Steel	8"	15"	**19H524**



No. 4UJJ3

VOLLRATH

CAMBRO

Dishwasher Racks



No. 4NCY9

Cup and Glass Racks—Hold most standard-size cups and glasses.

Peg and Base Racks—Provide efficient washing, and a safe and sanitary transport and storage system. Keep products clean and eliminate the need for rewashing.

Flatware Racks—Gray color, except Nos. 4NCY7 and 4NCY6 are light green.

Dishwasher Rack Accessories—No. 4UJK9 features 4 swivel casters and a 350-lb. load capacity.

No. of Compart.	Overall H (in.)	Max. Glass Dia. (in.)	Max. Glass Height (in.)	Brand	Item No.	Pkg. Qty.
Cup Rack						
20	5½	4⅝	4⅛	Vollrath	**4NCZ2**	1
Closed Glass Rack Systems						
16	8⅞	4⅜	6⅞	Cambro	**4UJH9**	3
16	10½	4⅜	8½	Cambro	**4UJJ2**	2
25	5⅝	3½	3⅝	Cambro	**4UJJ3**	5
25	7¼	3-4/9	6⅛	Cambro	**4UJJ5**	4
25	8⅞	3-4/9	7¾	Cambro	**4UJJ7**	3
25	10½	3-4/9	8½	Cambro	**4UJJ8**	2

Description	Overall H (in.)	Inside Rack Height (in.)	Outside Rack Height (in.)	Peg Height (in.)	Brand	Item No.	Pkg. Qty.
Peg Racks							
19¾" x 19¾" Peg Rack, Full Size	3¼	3¼	4	4	Cambro	**4UJJ9**	6
19¾" x 19¾" Peg Rack, Full Size	3¼	3¼	4	4	Cambro	**4UJK1**	6
19¾" x 19¾" Peg Rack, Full Size	3¼	2¾	3¼	2 7/16	Vollrath	**4NCY8**	1
19¾" x 19¾" Open End Rack, Full Size	3¼	3¼	4	4	Cambro	**4UJK2**	6
Base Rack							
19¾" x 19¾" Base Rack	4	3¼	4	—	Cambro	**4UJK6**	6
Flatware Racks							
Flatware Rack, Full Size	2⅝	2⅝	4	—	Cambro	**4UJK7**	6
Flatware Rack, Full Size	4⅛	2⅝	4⅛	—	Vollrath	**4NCY9**	1
8 Comp. Flatware Rack w/ Handle, Half Size	4¾	4¾	7¼	—	Cambro	**4UJK8**	6
8 Comp. Flatware Rack w/ Handle, Half Size	13½	4¼	—	—	Vollrath	**4NCY7**	1
8 Comp. Flatware Rack w/ out Handle, Half Size	7¼	4¼	—	—	Vollrath	**4NCY6**	1

Description	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Brand	Item No.	Pkg. Qty.
Dishwasher Rack Accessories						
Dish Rack Dolly	21⅜	21⅜	8	Cambro	**4UJK9**	1
Rack Cover	19⅝	19⅝	15 5/16	Cambro	**4UJK3**	1



No. 6THX0

NEWAGE INDUSTRIAL

Aluminum Food Service Racks

- Four 5" swivel casters

Half and full bun racks hold 13" x 18", 14" x 18", and 18" x 26" pans. Nos. 6THZ7 and 6THZ6 hold 15" x 20" trays only. For additional food service storage shelving and dunnage racks, please visit Grainger.com®.

Description	Load Capacity	No. of Slots	H	W	D	Item No.
End Loading Racks						
½-Size Bun Pan	500 lb	6	38"	20⅜"	26"	**6THX4**
	500 lb	10	38"	20⅜"	26"	**6THX1**
½-Size Bun Pan, SS Top	500 lb	6	38"	20⅜"	26"	**6THX3**
	500 lb	10	38"	20⅜"	26"	**6THX0**
Full-Size Bun Pan	700 lb	10	69¾"	20⅜"	20⅜"	**6THY0**
	700 lb	12	69¾"	20⅜"	20⅜"	**6THX9**
	700 lb	15	69¾"	20⅜"	20⅜"	**6THX8**
	700 lb	20	69¾"	20⅜"	20⅜"	**6THX7**
Tray	500 lb	12	69"	17⅞"	21"	**6THZ7**
Poly Box Storage	700 lb	8	70"	20⅞"	26"	**6THZ8**
Steam Table Pan	500 lb	20	69"	16¼"	22⅜"	**6TJA1**
Side Loading Racks						
Full-Size Bun Pan	700 lb	12	69¾"	28½"	28½"	**6THY5**
	700 lb	15	69¾"	28½"	28½"	**6THY4**
	700 lb	20	69¾"	28½"	28½"	**6THY3**
Tray	500 lb	24	69"	23⅛"	30½"	**6THZ6**
Enclosed Rack						
Full-Size Pan	700 lb	40	68"	20⅞"	27⅝"	**6TJC9**
Knock-Down Racks						
Full-Size Bun Pan	500 lb	12	69"	20⅜"	20⅜"	**6THY9**
	500 lb	20	69"	20⅜"	20⅜"	**6THY8**
	500 lb	30	69"	20⅜"	20⅜"	**6THY7**
Welded Racks						
Full-Size Bun Pan	500 lb	12	69"	20⅜"	20⅜"	**6THZ2**
	500 lb	20	69"	20⅜"	20⅜"	**6THZ1**
	500 lb	30	69"	20⅜"	20⅜"	**6THZ0**
Oval Tray Racks						
Banquet	700 lb	9	63¾"	24½"	27"	**6THZ4**
	700 lb	10	69¾"	24½"	27"	**6THZ3**
	700 lb	10	69¾"	26⅜"	26⅜"	**6THZ5**
Z-Type Nesting Racks						
Pan	700 lb	20	69¾"	20⅜"	20⅜"	**6TJA4**
	700 lb	30	69¾"	20⅜"	20⅜"	**6TJA5**



No. 4PLV8

ALECO E-S-ROBBINS · Rubbermaid Commercial Products · TOUGH GUY · GA GRAINGER APPROVED

Rack and Pan Covers

Safely cover and protect food products. Use Rack Covers on portable and fixed racks. No. 3XVY4 is clear and No. 4PLV8 is black. Rack not included.

Description	Color	L	W	Thickness	Brand	Item No.	Pkg. Qty.
PVC	Royal Blue	64"	23"	12 mil	Aleco	**21XY13**	1
PVC	Clear	64"	23"	15 mil	Aleco	**21XY12**	1
Nylon Reinforced PVC	Off White	64"	23"	20 mil	Aleco	**21XY14**	1
Vinyl	Clear	70½"	23½"	—	Rubbermaid Commercial Products	**4PLV8**	1
High-Density Polyethylene	Clear	80"	29"	0.59 mil	Tough Guy	**3XVY4**	50
Low Density Polyethylene, Without Ties, Bag Opens to 53"	Clear	72"	31"	0.75 mil	GA	**3CUA6**	100
High Density Polyethylene, Without Ties	Clear	80"	52"	0.5 mil	GA	**3CUA5**	50



No. 5EMK8 · No. 5EMN5

CRES COR

Aluminum Corrugated and Angle Food Service Racks

- Shipped fully assembled
- 5" nonmarking swivel casters (2 locking)

Racks hold 18" x 26" pans. No. 5EMK9 also holds 14" x 18" trays. No. 5EML0 is a roll-in refrigerator rack with universal angles for various size pans.

Description	Load Cap.	No. of Slots	H	W	D	Item No.
Corrugated Rack	1000 lb	39	69⁹⁄₁₆"	21¹³⁄₁₆"	26¾"	**5EMK8**
Angle Ledge Rack	1000 lb	20	69¾"	22"	29⅝"	**5EMK9**
Universal Angle Rack	1000 lb	12	64½"	26⅜"	26¹⁵⁄₁₆"	**5EML0**
Universal Angle Rack	1000 lb	13	69¾"	25⅜"	24¹⁵⁄₁₆"	**5EML1**
Non-Insulated Transport Storage Cabinet	1000 lb	40	69¾"	20⅞"	27½"	**5EMN5**



No. 2XJL5

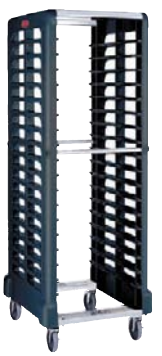
LAKESIDE

Stainless Steel Pan and Tray Racks

- Shipped fully assembled
- Nonmarking polyurethane wheels

Tray capacity doubles when half-size trays are used.

Load Capacity	No. of Slots	Pan Size	H	W	D	Item No.
300 lb	18	18 x 26, 18 x 13"	62⅛"	21"	26¼"	**2XJL4**
300 lb	20	18 x 26, 18 x 13"	67⅛"	21"	26¼"	**2XJL5**
300 lb	20	18 x 26, 18 x 13"	67½"	21"	27¼"	**2XJL1**
300 lb	16	18 x 26, 18 x 13"	58½"	21"	29¼"	**2XJL2**
400 lb	20	18 x 26, 18 x 13"	68½"	21"	29¼"	**2XJL3**



No. 4PLV4



No. 4PLV6

Rubbermaid Commercial Products

Plastic/ Steel Food Service Carts

- Shipped unassembled
- 5" nonmarking swivel casters (2 locking)

Load Cap.	No. of Slots	Pan Size	H	W	D	BLACK Item No.	OFF WHITE Item No.
Prep Cart Racks							
175	8	18 x 26"	36¼"	18⅝"	23¾"	**4PLU5**	—
175	8	18 x 26"	36¼"	23¾"	31¾"	**4PLU7**	—
End-Load Racks							
300	18	18 x 26"	67⅞"	18⅝"	23¾"	**4PLU9**	**4PLV1**
300	18		67⅞"	23¾"	28¾"	**4PLV4**	**4PLV2**
Standard Base Rack							
300	26	18 x 26"	69⅝"	28"	23"	**4PLV6**	—

Stainless Steel Steam Table Pans and Covers

VOLLRATH®

Antijamming feature helps prevent pans from sticking together. Pans sit flat inside well. Covers sold separately.

Cap.	D	Gauge	Item No.
Full-Size Steam Table Pan			
8.3 Qt.	2½"	22	**4NDD2**
14 Qt.	4"	22	**4NDD3**
21 Qt.	6"	22	**4NDD4**
Full-Size Perforated Steam Table Pan			
3.9 Qt.	1¼"	22	**4NDJ5**
8.3 Qt.	2½"	22	**4NDJ6**
14 Qt.	4"	22	**4NDJ7**
21 Qt.	6"	22	**4NDJ8**
Full-Size Heavy Duty Steam Table Pan			
8.3 Qt.	2½"	20	**4NDK2**
14 Qt.	4"	20	**4NDK3**
Full-Size Transport Steam Table Pan			
14 Qt.	4"	20	**4NDL1**
28 qt.	8"	20	**4NDL3**
Two-Thirds Size Steam Table Pan			
9.5 Qt.	4"	22	**4NDD7**
14 Qt.	6"	22	**4NDD8**
Half-Size Steam Table Pan			
4.3 Qt.	2½"	22	**4NDE1**
6.7 Qt.	4"	22	**4NDE2**
10 Qt.	6"	22	**4NDE3**
Half-Size Perforated Steam Table Pan			
4.3 Qt.	2½"	22	**4NDJ9**
6.7 Qt.	4"	22	**4NDK1**

Cap.	D	Gauge	Item No.
Half-Size Heavy Duty Steam Table Pan			
4.3 Qt.	2½"	20	**4NDK5**
6.7 Qt.	4"	20	**4NDK6**
Half-Size Transport Steam Table Pan			
6 Qt.	4"	20	**4NDL5**
10 Qt.	6"	20	**4NDL6**
Half-Size Long Steam Table Pan			
3.7 Qt.	2½"	22	**4NDE5**
5.7 Qt.	4"	22	**4NDE6**
Third-Size Steam Table Pan			
1.3 Qt.	1¼"	22	**4NDE8**
2.6 Qt.	2½"	22	**4NDE9**
4.1 Qt.	4"	22	**4NDF1**
6.1 Qt.	6"	22	**4NDF2**
Fourth-Size Steam Table Pan			
1.8 Qt.	2½"	22	**4NDF3**
3 Qt.	4"	22	**4NDF4**
4.5 Qt.	6"	22	**4NDF5**
Sixth-Size Steam Table Pan			
1.2 Qt.	2½"	22	**4NDF6**
1.8 Qt.	4"	22	**4NDF7**
2.7 Qt.	6"	22	**4NDF8**
Ninth-Size Steam Table Pan			
0.6 Qt.	2"	22	**4NDF9**
1.1 Qt.	4"	22	**4NDG1**

Description	Full-Size Item No.	Half-Size Item No.	Third-Size Item No.	Fourth-Size Item No.	Sixth-Size Item No.	Ninth-Size Item No.
Solid Cover	**4NDG2**	**4NDG6**	**4NDH2**	**4NDH6**	**4NDH9**	**4NDJ3**
Solid Steam Table Cover	**4NDL8**	**4NDL9**	—	—	—	—
Slotted Cover	**4NDG3**	**4NDG7**	**4NDH3**	**4NDH7**	**4NDJ1**	**4NDJ4**
Wire Grate	**4NDG4**	**4NDG8**	**4NDH4**	—	—	—
False Bottom	**4NDG5**	**4NDG9**	**4NDH5**	**4NDH8**	**4NDJ2**	—
Hinged Dome Cover	**4NEE8**	—	—	—	—	—



Full-Size Pan



Full-Sized Pan w/ Hinged Dome Cover



Solid Cover



Slotted Cover

Chicago Metallic VOLLRATH® CARLISLE

Sheet Pans

Size	Material	Gauge	Brand	Item No.	Pkg. Qty.
Stayflat Sheet Pans					
25⅞" x 17⅞"	Aluminum	18	Chicago Metallic	**38X933**	1
Sheet Pans					
6½" W x 9½" L x 1" D	Aluminum	16	Chicago Metallic	**11K097**	1
	Anodized Aluminum	16		**11K108**	1
9½" W x 13" L x 1" D	Aluminum	16		**11K094**	1
	Glazed Aluminum	16		**11K095**	1
	Anodized Aluminum	16		**11K096**	1
15" W x 21" L x 1" D	Aluminum	18		**11K084**	1
	Glazed Aluminum	18		**11K085**	1
17⅞" W x 25⅞" L x 1" D	Aluminum	16		**11K059**	1
18" W x 13" L x 1" D	Aluminum	14		**11K088**	1
	Anodized Aluminum	14		**11K091**	1
	Aluminum	18		**11K086**	1
	Glazed Aluminum	18		**11K087**	1
	Non-Stick Aluminum	18		**11K090**	1
18" W x 26" L x 1" D	Aluminum	12		**11K061**	1
	Glazed Aluminum	12		**11K062**	1
	Non-Stick Aluminum	18		**11K068**	1
	Anodized Aluminum	16		**11K080**	1
	Glazed Aluminized Steel	22		**11K081**	1
	Stainless Steel	22		**11K083**	1
25⅞" x 17⅞"	Aluminum	20		**38X935**	1
26 x 18"	Glazed Aluminum	20		**38X936**	1
Jelly Roll Pans					
12¹⁵⁄₁₆" W x 17¼" L	Glazed Aluminized Steel	26	Chicago Metallic	**11K056**	1
Half Size Wire Grate					
16½ L x 11¾ W x ⅞"D	Aluminum	—	Vollrath	**4RZE1**	1



No. 5YGX4

Size	Material	Gauge	Brand	Item No.	Pkg. Qty.
Half Size Sheet Pan					
12⅞" L x 17¾" W x 1" D	Aluminum	18	Vollrath	**4RZD6**	1
Full Size Wire Grate					
24" L x 16½" W x ⅞" D	Stainless Steel	—	Vollrath	**4RZD9**	1
Full Size Sheet Pans					
25¾" L x 17¾" W x 1" D	Aluminum	18	Vollrath	**4RZD5**	1
	Aluminum	16		**4RZD8**	1
Display Pans					
18" W x 26" L x 1" D	Aluminum	16	Chicago Metallic	**11K111**	1
Cookie Sheets					
10" W x 14" L	Glazed Aluminized Steel	26	Chicago Metallic	**11K051**	1
13⅞" W x 18" L	Glazed Aluminized Steel	26		**11K054**	1
14" W x 14¹⁄₁₆" L	Glazed Aluminized Steel	26		**11K052**	1
Baking Sheets					
18" W x 26" L	Perforated Aluminum	16	Chicago Metallic	**11K120**	1
Bakeware Sheet Pan					
25¾" L x 17¹³⁄₁₆" W	Aluminum	18	Carlisle	**5YGX4**	12
Bagel Pans					
18" W x 26" L	Glazed Perforated Aluminum	14	Chicago Metallic	**11K118**	1
	Glazed Perforated Aluminum	12		**11K119**	1

GA GRAINGER APPROVED Reynolds

Heavy-Duty Aluminum Foil

Serrated edge cutter easily tears foil for lining pans and covering dishes. Helps prevent splatters, locks in flavors, keeps food moist, and eases clean up. Withstands high heat and freezing temperatures. Perfect for roasting, grilling, or baking.



No. 6CHG5

Roll Length	W	Std.	Brand	Item No.
500 ft.	12"	FDA Approved	Reynolds	**6CHG5**
500 ft.	18"	FDA Approved	Reynolds	**6CHG6**
500 ft.	18"	ASTM B479-95	GA	**16W483**
1000 ft.	18"	FDA Approved	Reynolds	**6CHG4**


No. 5M663


No. 5M682


No. 4UKC3


No. 4UKD2

Rubbermaid Commercial Products CAMBRO

Food Boxes and Lids

- Dishwasher- and freezer-safe
- Durable and stain-resistant

Rubbermaid®—Lids sold separately and shipped in carton quantity. No. 4UEH2 fits most full-size food boxes (except No. 4UEH3).

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR CO-POLYESTER CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE CONTAINERS Item No.	Pkg. Qty.	CLEAR CO-POLYESTER LIDS Item No.	Pkg. Qty.	WHITE POLYETHYLENE LIDS Item No.	Pkg. Qty.
Rubbermaid®											
8	18	12	3½	**4UEH4**	1	—	—	**5M665**	1	—	—
14	18	12	6	**5M664**	1	**5M682**	1	**5M665**	1	**5M683**	1
20	18	12	9	**5M660**	1	**5M678**	1	**5M665**	1	**5M683**	1
20	26	18	3½	**4UEH3**	1	—	—	**5M659**	1	—	—
34	26	18	6	**5M663**	1	**5M681**	1	**5M659**	1	**5M677**	1
50	26	18	9	**5M657**	1	**5M675**	1	**5M659**	1	**5M677**	1
66.52	26	18	12	**4UEH5**	1	—	—	**5M659**	1	—	—
86	26	18	15	**5M658**	1	**5M676**	1	**5M659**	1	**5M677**	1
Colandar/Drain Tray				**4UEH2**	1	—	—	—	—	—	—

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	CLEAR POLYCARBONATE LIDS Item No.	Pkg. Qty.
Cambro®							
20	18	26	3½	**4UKC3**	6	**4UKD2**	6
35	18	26	6	**4UKC4**	6	**4UKD2**	6
52	18	26	9	**4UKC5**	4	**4UKD2**	6
68	18	26	12	**4UKC6**	4	**4UKD2**	6
88	18	26	15	**4UKC7**	3	**4UKD2**	6
7	12	18	3½	**4UKC8**	6	**4UKD3**	6
12	12	18	6	**4UKC9**	6	**4UKD3**	6
19	12	18	9"	**4UKD1**	6	**4UKD3**	6

Rubbermaid Commercial Products CAMBRO

Storage Containers


No. 2YJ88


No. 4UJZ9

- NSF Certified
- Commercial dishwasher safe
- Max. temp.: 212°F

Rubbermaid®—Stain- and break-resistant construction. Round containers nest when empty. Nos. 1GAF2 and 1GAH4 have a removable bail handle.

Cambro®—Clear polycarbonate construction. Snap-on covers fit tightly.

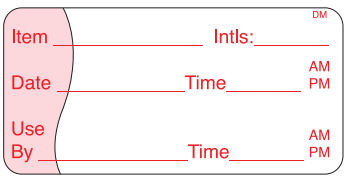
Cap. (qt.)	Dia.	Overall H (in.)	SEMI-CLEAR POLYPROPYLENE CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE CONTAINERS Item No.	Pkg. Qty.	YELLOW POLYETHYLENE LIDS Item No.	Pkg. Qty.
Round Rubbermaid®								
2	8½	4	**1GAE4**	1	**1GAF6**	1	**1GAF3**	1
4	8½	7¾	**1GAE5**	1	**1GAF7**	1	**1GAF3**	1
6	10	7⅝	**1GAE6**	1	**1GAF8**	1	**1GAF4**	1
8	10	10⅝	**1GAE7**	1	**1GAF9**	1	**1GAF4**	1
12	13⅛	8⅛	**1GAE8**	1	**1GAH1**	6	**1GAF5**	1
18	13⅛	11⅞	**1GAE9**	1	**1GAH2**	1	**1GAF5**	1
22	13⅛	14	**1GAF1**	1	**1GAH3**	1	**1GAF5**	1
18	13⅛	14	**1GAF2**	1	—	—	**1GAF5**	1
22	13⅛	14	—	—	**1GAH4**	1	—	—

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR CO-POLYESTER CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE LIDS Item No.	Pkg. Qty.
Square - Rubbermaid®							
2	8¾	8⅞	2¾	**2YJ87**	1	**2YJ94**	1
4	8¾	8⅞	4¾	**2YJ88**	1	**2YJ94**	1
6	8¾	8⅞	6 15/16	**2YJ89**	1	**2YJ94**	1
7	8¾	8⅞	8¾	**2YJ90**	1	**2YJ94**	1
12	11¾	10½	7¾	**2YJ91**	1	**2YJ95**	1
18	11¾	10½	11 5/16	**2YJ92**	1	**2YJ95**	1
22	11¾	10½	14 1/16	**2YJ93**	1	**2YJ95**	1

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	TRANSLUCENT POLYPROPYLENE LIDS Item No.	Pkg. Qty.
Square - Cambro®							
2	7¼	7¼	3⅞	**4UJY8**	6	**4UJZ6**	6
3	7¼	7¼	7⅜	**4UJY9**	6	**4UJZ6**	6
6	8⅜	8⅜	7¼	**4UJZ1**	6	**4UJZ7**	6
8	8⅜	8⅜	9⅛	**4UJZ2**	6	**4UJZ7**	6
12	11¼	12¼	8¼	**4UJZ3**	6	**4UJZ8**	6
18	11¼	12¼	12⅝	**4UJZ4**	6	**4UJZ8**	6
22	11¼	12¼	15¾	**4UJZ5**	6	**4UJZ8**	6

Cap. (qt.)	Dia.	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	TRANSLUCENT POLYPROPYLENE LIDS Item No.	Pkg. Qty.
Round - Cambro®						
1	6⅛	5	**4UJZ9**	12	**4UKA8**	12
2	—	4 3/16	**4UKA1**	12	**4UKA9**	12
4	—	8 3/16	**4UKA2**	12	**4UKA9**	12
6	—	7 15/16	**4UKA3**	12	**4UKC1**	12
8	—	10⅞	**4UKA4**	12	**4UKC1**	12
12	—	8⅜	**4UKA5**	6	**4UKC2**	6
18	—	12	**4UKA6**	6	**4UKC2**	6
22	13½	15	**4UKA7**	6	**4UKC2**	6

DayMark Safety Systems



No. 6GUV0



No. 22FD08


1-Line Food Prep Marker
No. 6GUW4

Food Storage Labels

Description	H	W	▶CHOOSE: Color	Item No.	Pkg. Qty.
DissolveMark Labels					
Dissolvable Day Labels					
Mon - Sun	2"	2"	Blue, Yellow, Red, Brown, Black, Green, Orange	**D5397**	250
Shelf Life Labels					
Dissolvable	2"	2"	Blue	**6GUU2**	250
Dissolvable	1"	2"	Red	**6GUV0**	500
Dissolvable	2"	3"	Blue	**6GUV1**	250
DayMark Dispenser					
2-Slot, 1" Food Label Dispenser	7½"	9⅞"	Silver	**6GUX1**	1
7-Slot, 1" Food Label Dispenser	4½"	7¼"	Silver	**6GUX2**	1
MoveMark Removable Labels					
Removable Day Labels					
Mon - Sun	1"	1"	Blue, Yellow, Red, Brown, Green, Orange, Black	**D5402**	1000

Description	H	W	▶CHOOSE: Color	Item No.	Pkg. Qty.
Removable Dot Box Day Label Kits					
(7) 1000 Label Rolls;1 Roll for each Day	1"	1"	7 Colors	**6GUW0**	7000
Removable Shelf Life					
Mon - Sun	2"	2"	Blue, Yellow, Red, Brown, Green, Orange, Black	**D5398**	500
Shelf Life	2"	3"	Black	**6GUV2** †	500
Removable Use First Labels					
Use First	3"	3"	Orange	**6GUW1**	500
ToughMark Label					
Allergen	2"	3"	Purple/White	**22FD08**	1
DuraMark Label Guns, Labels and Ink Roller					
Food Prep Marker Date Coder 1-Line			Red	**6GUW4**	1
Permanent Blank Labels			White	**6GUW6**	8000
Permanent Blank Labels			Orange	**6GUW7**	8000
Food Prep Ink Roller - 5 Pack For Use With Nos. 6GUW4, 6GUW5				**6GUX0**	5

† No. 6GUV2 only includes Items/Date/Shelf Life.

Rubbermaid Commercial Products CAMBRO

Bulk Storage Bins

Stores dry bulk ingredients.

Mobile Bulk Storage Bins—Sloped, clear plastic hinged lid. 3" casters (2 rigid, 2 swivel).

Cap. (gal.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Item No.
Mobile Bulk Storage Bins w/32 oz. Scoop - RUBBERMAID COMMERCIAL PRODUCTS				
84	29¼	13⅛	28	**5M684**
104	29¼	15½	28	**5M685**
124	29¼	18	28	**5M686**
Bulk Storage Bins w/2-cup Clear Scoop - RUBBERMAID COMMERCIAL PRODUCTS				
10.48	15	11¾	8½	**4UEX9**
21.63	23½	11½	16⅞	**2ERY4**
42.8	23½	19⅛	16⅞	**2ERY5**
Round Bulk Ingredient Container Combos w/2-cup Clear Scoop - RUBBERMAID COMMERCIAL PRODUCTS				
40	24¾	4⅛	18⅛	**4UEY4**
80	29⅛	20²⁹⁄₃₂	24¾	**4UEY5**
102.4	29⅛	23⅜	29⅛	**4UEY6**

Bulk Storage Bins—Allow 1-handed access to contents while bins are stacked. Feature first-in, first-out barrier for proper rotation of ingredients. Clear windows and ingredient labels. Include scoop.

Mobile Ingredient Bins—Clear sliding lid reduces handling and provides quick content identification. Designed to fit under work tables. All bins have a slant top, except No. 4UJT2 has a flap top. No liners are needed. 3" casters with 2-front swivel, and 2-fixed. Scoop not included.

Cap. (gal.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Item No.
Mobile Ingredient Bins w/S-Hook - CAMBRO				
84	29½	13	28	**4UJR8**
106.8	30⅛	13	28½	**4UJT2**
108	29⅝	16⁵⁄₁₆	28	**4UJR9**
148	29½	21½	28	**4UJT1**


No. 5M684


No. 2ERY4



No. 4UEY4


No. 4UJR9


No. 4UEY1

Description	Item No.
Accessories - Rubbermaid Commercial Products	
Lid with 32-oz. Scoop for No. 5M684	**2ERX8**
Lid with 32-oz. Scoop for No. 5M685	**2ERX9**
Lid with 32-oz. Scoop for No. 5M686	**2ERY1**
Lid with 2 Cup Scoop for No. 4UEY4	**4UEY1**
Lid with 3 Cup Scoop for No. 4UEY5	**4UEY2**
Lid with 4 Cup Scoop for No. 4UEY6	**4UEY3**
Replacement Scoop, 32 Oz., Pkg. of 6	**2ERY2**
Replacement Scoop, 64 Oz., Pkg. of 6	**2ERY3**

CAMBRO

Camshelving® Polypropylene Shelving with Steel Core

Polypropylene Vented Shelving Units—For use in walk-in freezers, refrigerators, or wet/dry environments. Shelf plates are dishwasher safe. Shelves adjust in 4" increments. Include 2 post kits, 8 traverses, and shelf plates.

Mobile Shelving Unit Stands—Include 4 posts, post connectors, traverses, vented shelf plates, and casters.

Center Support For Shelving Stands—Weight bearing capacities up to 1000 lb. on bottom shelf units 54" or longer.

Lockable Security Cage for Shelving Stands—Fit on standard Camshelving units 24" wide and 48" longer.


No. 2MGC8


No. 22NV15

H	W	D	Item No.
Polypropylene Vented Shelving Units			
72"	36"	18"	**2MGC8**
72"	48"	18"	**2MGC9**
72"	60"	18"	**2MGD1**
72"	36"	21"	**2MGD2**
72"	48"	21"	**2MGD3**
72"	60"	21"	**2MGD4**
72"	36"	24"	**2MGD5**
72"	48"	24"	**2MGD6**
72"	60"	24"	**2MGD7**
72"	36"	18"	**22NV17**
72"	48"	18"	**22NV18**
72"	60"	18"	**22NV19**
72"	36"	24"	**22NV20**
72"	48"	24"	**22NV21**
72"	60"	24"	**22NV22**
Mobile Shelving Unit Stands			
75"	48"	24"	**4UHX3**
75"	48"	18"	**4UHX4**
Center Support for Shelving Stands			
6"	—	18"	**4UHX5**
6"	—	21"	**4UHX6**
6"	—	24"	**4UHX7**
Lockable Security Cages for Shelving Stands			
18"	42½"	25¼"	**4UHX8**
64½"	50¼"	24"	**22NV16**
67¾"	50¼"	24"	**22NV15**

CAMBRO

Camshelving® Elements Series

- Composite material
- Brushed graphite color
- Shelf plates are easily removed and dishwasher safe

Resistant to moisture; won't rust or corrode. Withstand temperatures from -36° to 190°F.

Mobile Starter Shelf Units—Include 4 mobile posts, post connectors and wedges installed, 8 mobile traverses, 32 dovetails, and shelf plates for 4 shelves.

Stationary Starter Shelf Units—Include 2 post kits, 8 traverses, 32 dovetails, and shelf plates to build 1 entire unit.

Stationary Add-On Shelf Units—Include 1 post kit, 8 traverses, 32 dovetails, and shelf plates to attach to adjoining unit.


No. 12F885

H	W	D	PREMIUM Item No.
Mobile Starter Shelf Units - 800 lb. Cap. Per Shelf			
70"	36"	18"	**12F885**
78"	36"	18"	**12F887**
70"	48"	18"	**12F889**
78"	48"	18"	**12F891**
70"	36"	21"	**12F893**
78"	36"	21"	**12F895**
70"	48"	21"	**12F897**
78"	48"	21"	**12F899**
70"	36"	24"	**12F902**
78"	36"	24"	**12F904**
70"	48"	24"	**12F906**
78"	48"	24"	**12F908**

H	W	D	STARTER Item No.	STARTER Shelf Cap.	ADD-ON Item No.	ADD-ON Shelf Cap.
Stationary Shelf Units						
72"	36"	18"	**12F910**	800 lb.	—	
72"	48"	18"	**12F911**	800 lb.	**12F919**	800 lb.
72"	60"	18"	**12F912**	600 lb.	**12F920**	600 lb.
72"	36"	21"	**12F913**	800 lb.	—	
72"	48"	21"	**12F914**	800 lb.	**12F921**	800 lb.
72"	60"	21"	**12F915**	600 lb.	**12F922**	600 lb.
72"	36"	24"	**12F916**	800 lb.	—	
72"	48"	24"	**12F917**	800 lb.	**12F923**	800 lb.
72"	60"	24"	**12F918**	600 lb.	**12F924**	800 lb.

TMI LLC

Cooler/Freezer Strip Doors

Feature easy snap-on/snap-off installation with low-profile, polypropylene mounting hardware. Stay securely in place for all-day use. Cost-effective strips are energy efficient.


Strip Door

Temp. Range	Strip Type	Strip Width	Strip Length	No. of Strips	Mfr. Model	Item No.
Strip Door						
-20° to 140°F	Smooth, Reinforced	6"	7 ft. 3"	10	999-00209	**1VKB7**
-20° to 140°F	Smooth, Reinforced	8"	7 ft. 3"	7	999-00211	**1VKB9**
Replacement Strips						
-20° to 140°F	Smooth, Reinforced	6"	7 ft. 3"	5	999-00663	**407K52**
-20° to 140°F	Smooth, Reinforced	8"	7 ft. 3"	5	999-00015	**3TB16**
Strip Door Hardware						
3 ft. 4" L	—	—	—	—	999-10106	**407K51**

Scan. Order. Done.
Details on page A1.



Butcher Knife
No. 402D78



Serrated Knife
No. 402D85



No. Chef's Knife
No. 402D86

TWIN® Master Cutlery

ZWILLING J.A.HENCKELS

- Handle color black

Stain- and corrosion-resistant high-carbon stainless steel blades are remarkably safe, flexible, lightweight, and stay sharper longer. Blades also feature a precision-honed and laser-controlled edge for ideal cutting angles and durability. Ideal for use in commercial kitchens. Safe-grip, polypropylene ergonomic handles. Dishwasher-safe.

L	▶CHOOSE: Type	▶CHOOSE: Blade Type	Item No.
6"	Narrow Boning Knives	Flexible	402D76
		Straight	402D75
		Wide	402D77
8"	Butcher Knives	Curved	402D78
	Chef Butcher Knives	Straight	402D79
	Chef Knives	Straight	402D80
9½"	Bread Knives	Scalloped	402D83
	Chef Knives	Straight	402D81
	Serrated Knives	Slicer	402D84
	Slicer Knives	Straight	402D82
11½"	Chef Knives	Straight	402D86
	Serrated Knives	Slicer	402D85



Genesis®



Millennia®



Renaissance®



Ultimate White®

Cutlery

MERCER® Innovations for Chefs®

Genesis®—Precision forged with ergonomic handles, full tang.

Renaissance®—Triple-riveted, 1-pc. knives are stain-free and razor sharp. Feature taper ground edges, full tang.

Millennia®—Stain-free and formed from a single piece of steel for exceptional strength.

Ultimate White®—Stamped, stain-free, and razor-sharp with long-lasting edges. Feature textured finger points for a comfortable and safe grip.

Millennia® Colors—Knives feature color-coded handles for dedicated use in food safety handling practices.

L	Blade Material (High Carbon Stainless Steel)	Blade Type	▶CHOOSE: Handle Color	Series	Item No.
Boning Knife					
6"	Forged	Flexible	Black	Genesis®	6AKG3
6"	Forged		Black	Renaissance®	6AKF0
6"	Forged	Stiff	Black	Genesis®	6AKG2
6"	Forged		Black	Renaissance®	6AKE9
6"	Stamped	Narrow	Black	Millennia®	6AKJ9
6"	Stamped		White	Ultimate White®	6AKN9
6"	Stamped	Straight	Black	Millennia®	6AKK0
Bread Knife					
8"	Forged	Wavy Edge	Black	Genesis®	6AKG8
8"	Forged		Black	Renaissance®	6AKF1
Carving Knife					
8"	Forged	Straight	Black	Genesis®	6AKG6
10"	Forged	Granton Edge	Black	Genesis®	6AKH7
10"	Forged	Straight	Black	Genesis®	6AKG7
10"	Forged		Black	Renaissance®	6AKF2
Chef/Utility Knife					
8"	Stamped	Straight	White	Ultimate White®	6AKP0
10"	Stamped		White	Ultimate White®	6AKP1
Chef's Knife					
6"	Forged	Straight	Black	Genesis®	6AKG9
8"	Forged		Black	Genesis®	6AKH0
8"	Forged		Black	Renaissance®	6AKE5
8"	Stamped		Black	Millennia®	6AKK3
8"	Stamped		Blue, Green, Red, Yellow	Millennia® Colors	G6166
9"	Forged		Black	Genesis®	6AKH1
9"	Forged		Black	Renaissance®	6AKE6
9"	Stamped		Black	Millennia®	6AKK4
10"	Forged		Black	Genesis®	6AKH2
10"	Forged		Black	Renaissance®	6AKE7
10"	Stamped		Black	Millennia®	6AKK5
10"	Stamped		Blue, Green, Red, Yellow	Millennia® Colors	G6167
12"	Stamped		Black	Millennia®	6AKK6
12"	Stamped		White	Ultimate White®	12E727

L	Blade Material (High Carbon Stainless Steel)	Blade Type	▶CHOOSE: Handle Color	Series	Item No.
Chinese Chef Knife					
8"	Stamped	Rectangular	Black	Mercer Tools	6AKT3
Cleaver					
6"	Stamped	Straight	Black	Mercer Tools	6AKT1
7"	Stamped		Black	Mercer Tools	6AKT2
Fillet Knife					
7"	Forged	Flexible	Black	Genesis®	6AKG4
7"	Forged	Straight	Black	Renaissance®	6AKF7
7"	Stamped		White	Ultimate White®	12E728
Nakiri Knife					
7"	Forged	Rectangular	Black	Genesis®	6AKH5
Paring Knife					
3"	Stamped	Straight	Black	Millennia®	6AKT4
3"	Stamped		Blue, Green, Red, Yellow	Millennia® Colors	G6165
3"	Stamped		White	Ultimate White®	12E729
3½"	Forged		Black	Genesis®	6AKG1
3½"	Forged		Black	Renaissance®	6AKE8
Peeling Knife					
2½"	Forged	Curved	Black	Genesis®	6AKH9
2½"	Forged		Black	Renaissance®	6AKF8
Santoku Knife					
7"	Forged	Granton Edge	Black	Genesis®	6AKH3
7"	Forged		Black	Renaissance®	6AKF3
Slicer Knife					
11"	Stamped	Granton Edge	Black	Renaissance®	6AKG0
11"	Stamped	Wavy Edge	Black	Renaissance®	6AKF9
11"	Stamped		White	Ultimate White®	6AKP3
14"	Stamped	Granton Edge	Black	Millennia®	6AKR7
Utility Knife					
5"	Forged	Straight	Black	Genesis®	6AKG5
5"	Forged		Black	Renaissance®	6AKF4
8"	Stamped	Offset Wavy Edge	Blue, Green, Red, Yellow	Millennia® Colors	G6169
8"	Stamped		White	Ultimate White®	6AKP2

Description	Series	Item No.
Knife Sets		
Starter Set, 4-Pc.	Genesis®	6AKJ4
Knife Block Set, 6-Pc.	Renaissance®	12E730
Knife Glass Block Set, 6-Pc.	Genesis®	6AKJ0
Knife Roll Set, 7-Pc.		6AKJ1
Steak Knife Set, 7-Pc.		6AKJ5
Knife Case Set, 10-Pc.		6AKJ2

Blade Type	Series	Item No.
Specialty Tools		
Channel Knife	Mercer Tools	6CHH5
Offset Spreader, 13⅜"L, Black Polypropylene Handle		6AKV1
Straight Spreader, 15¼"L		6AKU9
Bench Scraper, Stainless Steel, Black Polypropylene Handle, 6"W	Millennia®	6AKV0
Vegetable Peeler, Stainless Steel	Mercer Tools	6CHH7
Knife Guards, For Use With Knives:		
2½" Peeling, 3½" Paring	Mercer Tools	6AKT5
5" Utility, 5" Tomato, 6" Boning, 6" Utility		6AKT6
6" Chef's		6AKU2
7" Fillet, 8" Carving, 8" Utility, 8" Bread		6AKU0
7" to 8" Chef's, Cleaver, Nakiri, Santoku		6AKT8
9" Chef's, 10" Chef's, 10" Wide Bread		6AKT7
12" Chef's, 11" Slicer, 12" Slicer		6AKT9
10" Carving, 10" Bread		6AKU1
Triple Diamond™	Electric Knife Sharpeners	12E726



3-Stage Electric Knife Sharpener

MERCER® Innovations for Chefs®

100% diamond abrasives with built-in precision angle guides is designed to sharpen straight edge, serrated, butcher, cleaver, pocket, and sporting knives. Stage 1— sharpens extremely dull knives, Stage 2— puts a quick edge back on, good for maintaining. Stage 3— takes off burrs, giving a smooth, razor sharp edge.

Description	No. of Stages	W	H	D	Item No.
Triple Diamond™	3	10"	4¼"	4¼"	12E726

DEXTER THE EDGE SINCE 1818

Food Service and Food Processing Cutlery

Stain-free, hand-honed blade provides ultimate edge for easier slicing.

Basic—Slip-resistant polyproylene handle.

Traditional™—Natural hardwood handle is secured to blade with brass compression rivets.

Sani-Safe®—Textured, slip-resistant handle withstands high and low temperatures. Impervious blade-to-handle seal provides sanitation.

Prodex®—Pronounced ribbed textured handle provides slip-resistance gripping positions.

SofGrip™—Nonslip soft rubber grip helps reduce stress, fatigue, and common wrist injuries.

iCUT-PRO®—Soft Santoprene® handle for comfortable grip. German stainless steel blade provides durability.



Traditional™ Boning Knife
No. 3HE24



Basics® Bread Knife
No. 4VEA3



Sani-Safe® Chef Knife
No. 4VEC1



iCUT-PRO™ Santoku Knife
No. 38X896



Sani-Safe® Cimeter Knife
No. 2TLP3



Sani-Safe®
Filet Knife
No. 2TLJ2



Basics® Cleaver
No. 3HE53



SofGrip™ Poultry and Kitchen Shears
No. 38X902



Knife Guard
No. 38X908



Prodex® Breaking Knife
No. 20Y659



Boning Hook
No. 3HE56



Sani-Safe® Poultry Sticker Knife
No. 3HE66

Description	L	▶CHOOSE: Handle Color	Series	Item No.
Food Service Cutlery				
Boning Knives				
Straight, Narrow	6"	Brown	Traditional™	3HE24
Narrow, Straight	6"	Black	Basics®	4VEA4
Stiff, Narrow Curved	6"	White	Sani-Safe®	3HB96
Bread Slicer Knives				
Scalloped, Offset	8"	Black	Basics®	4VEA6
Scalloped	8"	Black	Basics®	4VEA5
	8"	Blue, Green, Red, Yellow	Sani-Safe®	J5893
	10"	Black	Basics®	4VEA2
	12"	Black	Basics®	4VEA3
Curved, Scalloped	10"	White	Sani-Safe®	4VEC3
Breaking Knife				
Curved	8"	Black	SofGrip™	20Y656
Butcher Knives				
Straight	6"	White	Sani-Safe®	2TLN5
	12"	White	Sani-Safe®	2TLJ7
Chef/Cook's Knives				
Straight	8"	White	Sani-Safe®	4VEC1
	8"	Black	Basics®	4VEA1
	10"	White	Sani-Safe®	4VEA9
	10"	Black	Basics®	4VDZ9
	7"	Black	iCUT-PRO™	38X896
	8"	Blue, Green, Red, Yellow	Sani-Safe®	J5890
	10"	Blue, Green, Red, Yellow	Sani-Safe®	J5891
Cimeter Knives				
Straight	10"	White	Sani-Safe®	2TLP3
	12"	White	Sani-Safe®	3HE35
Cleaver				
Straight	7"	Rosewood	Traditional™	38X895
Fillet Knives				
Wide	8"	White	Sani-Safe®	2TLJ3
Narrow	9"	White	Sani-Safe®	2TLJ2
Paring Knives				
Scalloped	3¼"	White	Sani-Safe®	4VEC5
	3¼"	Black	Basics®	4VEA8
Straight	3⅛"	Black	Basics®	4VEA7
	3⅛"	White	Basics®	38X898
	3¼"	Blue, Green, Red, Yellow	Sani-Safe®	J5895
Roast Slicer Knives				
Scalloped	9"	White	Sani-Safe®	4VEC4
	12"	Blue, Green, Red, Yellow	Sani-Safe®	J5894
Straight	12"	White	Sani-Safe®	4VEC7
Scalloped	10"	White	Basics®	38X897
Utility Knives				
Scalloped	6"	Blue, Green, Red, Yellow	Sani-Safe®	J5892
Specialty Tools				
Dough Cutter/Scraper, 6" x 3"	6"	WhiteSilver	Sani-Safe®	38X894
Produce Knife w/Bottom Finger Guard	5"	White	Sani-Safe®	3HU39
Vegetable/Utility Knife	3½"	White	Sani-Safe®	3HU12
Clam Knife	3"	White	Sani-Safe®	2TLJ9
Oyster Knife, Galveston Style	4"	White	Sani-Safe®	2TLJ8
Cleaver w/Hardwood Handle	6"	Brown	Basics®	3HE53
Poultry and Kitchen Shears	7½"	Black/Blue	SofGrip™	38X902
Sharpener/Steel				
Knife Sharpener	10"	—	Sani-Safe®	38X901
Knife Guards				
For Use with Paring Knives	4"	Black	—	38X903
For Use with Boning and Fillet Knives	6"	Black	—	38X904
For Use with All Wide Knives Up to 8"	8"	Black	—	38X908
For Use with Chef Knives Up to 8"	8"	Black	—	38X905
For Use with All Knives Up to 10"	10"	Black	—	38X906
For Use with All Wide Knives Up to 10"	10"	Black	—	38X909
For Use with All Knives Up to 12"	12"	Black	—	38X907
Cutlery Bag				
Holds 35 Pieces	18"	Black	—	54RY64

Description	L	Handle Color	Series	Item No.
Food Processing Cutlery				
Boning Hook & Knives				
Boning Hook	4"	Red	Sani-Safe®	3HE54
Flexible, Curved	6"	White	Sani-Safe®	3HB95
Flexible, Straight	6"	White	Sani-Safe®	3HE16
Straight, Narrow	6"	White	Sani-Safe®	3HE17
Straight, Wide	6"	White	Sani-Safe®	3HE15
Stiff, Curved	6"	Black	Sani-Safe®	2TLN1
Curved	5"	Black	Prodex®	20Y657
	6"	Black	Prodex®	20Y658
	8"	Black	Prodex	20Y659
Breaking Knife				
Narrow	8"	White	Sani-Safe®	3HE33
Butcher Knives				
Straight	8"	White	Sani-Safe®	3HE31
	10"	White	Sani-Safe®	3HE32
Deboning Knives				
Straight	3¼"	Orange	Sani-Safe®	20Y655
	3¾"	Orange	Sani-Safe®	20Y653
	6"	Orange	Sani-Safe®	20Y654
Clip Point	3¼"	Orange	Sani-Safe®	3HE73
Wide Clip Point	2½"	Orange	Sani-Safe®	20Y652
Wide	3¼"	Orange	Sani-Safe®	2TLK3
Straight	4⅛"	Orange	Sani-Safe®	3HE75
3 Degree Drop Point	3¾"	Orange	Sani-Safe®	2TLK2
Tender/Shoulder/Trim	2½"	Orange	Sani-Safe®	3HE72
Fillet Knife				
Narrow	8"	White	Sani-Safe®	3HE58
Heading Knife				
Stiff	7½"	White	Sani-Safe®	3HE37
Node Hook				
Straight	6"	White	Sani-Safe®	3HE56
Paring Knife				
Straight	3¼"	Brown	Traditional™	3HU19
Poultry Sticker Knife				
Straight	3"	White	Sani-Safe®	3HE66
Produce Knife				
W/Guard	6"	Brown	Traditional™	3HU41
Skinning Knives				
Beef, Curved	6"	White	Sani-Safe®	3HE39
	6"	Black	Sani-Safe®	2TLN4
Lamb, Curved	5¼"	Black	Sani-Safe®	2TLN3
Sliming Knife				
Straight	4½"	White	Sani-Safe®	2TLJ6
Sticking Knife				
W/Guard	6"	Brown	Traditional™	3HE38
Utility Knives				
Scalloped	6"	White	Sani-Safe®	4VEC6
Net/Twine/Line, Serrated	3½"	Orange	Sani-Safe®	2TLJ4
Net/Twine/Line Knife w/Sheath	3¼"	White	Sani-Safe®	3HU13
No Work Steel				
No Work Steel	10"	Green	Traditional™	20Y651

Scan. Order. Done.
Details on page A1.

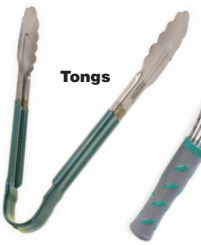

Basting Brush



Can Opener


Measuring Cup


No. 16W514


Tongs


French Whip


Spatula


Basting Spoon

Utensils

CARLISLE CRESTWARE TABLECRAFT Rubbermaid Commercial Products VOLLRATH

Description	Brand	Item No.	Pkg. Qty.
Basting Brushes			
1½" Wide Flat Brush	Carlisle	**4KDG7**	12
2" Wide Flat Brush	Carlisle	**4KDG8**	12
2" Wide Brush, Bent	Carlisle	**4KDG6**	12
3" Wide Flat Brush	Carlisle	**4KDG9**	12
Pastry Brushes			
Boar Bristle 2" W x 1⅞" L	Carlisle	**4KDG2**	12
Nylon Bristle 2" W x 1¾" L	Carlisle	**4KDG4**	12
Nylon Bristle 2" W x 2" L	Carlisle	**4KDH1**	12
Nylon Bristle 3" W x 1¾" L	Carlisle	**4KDG5**	12
Nylon Bristle 3" W x 2" L	Carlisle	**4KDH2**	12
Nylon Bristle 4" W x 2¼" L	Carlisle	**4KDH3**	12
Round Brushes			
Nylon Bristle 1" W x 1.88" L	Carlisle	**14D304**	12
Can Openers			
Cast Aluminum Table Mount Can Opener	Crestware	**41G579**	1
Gear Driven Can Opener, Red Handle	Crestware	**16W538**	1
Nickel Plated Can Tapper, Pkg. of 60	TableCraft	**6EZR0**	60
Firm Grip™ Hand Can Opener, Black Handle	TableCraft	**6EZJ8**	1
16" Cast Aluminum	TableCraft	**6EZL2**	1
8¼" Cast Aluminum	TableCraft	**6EZL1**	1
Measuring Cup Sets			
¼, ⅓, ½, 1 Cup - Heavy-Duty Stainless Steel	Crestware	**21D735**	1
¼, ⅓, ½, 1 Cup - Stainless Steel	Crestware	**21D734**	1
Measuring Cups			
¼ Cup - Stainless Steel	Crestware	**21D737**	1
1 Cup - Stainless Steel	Crestware	**21D736**	1
1 Cup - Polycarbonate	Rubbermaid Commercial Products	**2YU26**	1
1 pt. - Polycarbonate	Rubbermaid Commercial Products	**2YU27**	1
½ qt. Dry Measure - Aluminum	Crestware	**21D747**	1
½ qt. Liquid Measure - Aluminum	Crestware	**21D746**	1
1 qt. - Polycarbonate	Rubbermaid Commercial Products	**2YU28**	1
1 qt. Dry Measure - Aluminum	Crestware	**21D741**	1
1 qt. Liquid Measure - Aluminum	Crestware	**21D740**	1
2 qt. - Polycarbonate	Rubbermaid Commercial Products	**2YU29**	1
2 qt. Dry Measure - Aluminum	Crestware	**21D743**	1
2 qt. Liquid Measure - Aluminum	Crestware	**21D742**	1
4 qt. Dry Measure - Aluminum	Crestware	**21D745**	1
4 qt. Liquid Measure - Aluminum	Crestware	**21D744**	1
4 qt. - Polycarbonate	Rubbermaid Commercial Products	**2YU30**	1
Graduated Measures			
½ qt. - Stainless Steel	Vollrath	**4NCL7**	1
1 qt. - Stainless Steel	Vollrath	**4NCL8**	1
2 qt. - Stainless Steel	Vollrath	**4NCL9**	1
Measuring Spoon Sets			
¼ tsp., ½ tsp., 1 tsp., and 1 tbls - Heavy Duty Stainless Steel	Crestware	**21D739**	1
¼ tsp., ½ tsp., 1 tsp., and 1 tbls - Stainless Steel	Crestware	**21D738**	1
Scrapers			
5¾" x 3¾", Plastic	Crestware	**16W514**	12
6" x 3", Plastic Handle	Crestware	**44F704**	1
Pom Tongs			
6½"L, Plastic Beige Handle	Crestware	**45GJ74**	1
6½"L, Plastic Black Handle	Crestware	**45GJ75**	1
6½"L, Plastic Clear Handle	Crestware	**45GJ76**	1
9"L, Plastic Beige Handle	Crestware	**45GJ77**	1
9"L, Plastic Black Handle	Crestware	**45GJ78**	1
9"L, Plastic Clear Handle	Crestware	**45GJ79**	1
12"L, Plastic Beige Handle	Crestware	**45GJ71**	1
12"L, Plastic Black Handle	Crestware	**45GJ72**	1
12"L, Plastic Clear Handle	Crestware	**45GJ73**	1

Description	Brand	Item No.	Pkg. Qty.
Tongs			
6¾"L, Stainless Steel Handle	Crestware	**45GK99**	1
9"L, Stainless Steel Handle	Crestware	**45GL01**	1
10"L, Stainless Steel Black Handle	Crestware	**45GH23**	1
10"L, Stainless Steel Blue Handle	Crestware	**45GH24**	1
10"L, Stainless Steel Green Handle	Crestware	**45GH25**	1
10"L, Stainless Steel Red Handle	Crestware	**45GH26**	1
10"L, Stainless Steel Yellow Handle	Crestware	**45GH27**	1
12"L, Stainless Steel Black Handle	Crestware	**45GH28**	1
12"L, Stainless Steel Blue Handle	Crestware	**45GH29**	1
12"L, Stainless Steel Green Handle	Crestware	**45GH30**	1
12"L, Stainless Steel Red Handle	Crestware	**45GH31**	1
12"L, Stainless Steel Yellow Handle	Crestware	**45GH32**	1
Utility Tongs			
7"L, Stainless Steel	Vollrath	**4KJU4**	1
9½"L, Stainless Steel	Vollrath	**4KJU5**	1
9½"L, Black Handle - Heavy Gauge with Nylon End	Vollrath	**4KJU1**	1
9½" L - Heavy Gauge With Nylon End	Vollrath	**4KJT7**	1
12"L, Stainless Steel	Vollrath	**4KJU6**	1
12" L - Heavy Gauge	Vollrath	**4KJU2**	1
16"L, Stainless Steel	Vollrath	**4KJU7**	1
16" L - Heavy Gauge	Vollrath	**4KJU3**	1
French Whips - Stainless Steel Handle			
10" L	Crestware	**44F695**	1
12" L	Crestware	**44F696**	1
14" L	Crestware	**44F697**	1
16" L	Crestware	**44F698**	1
18" L	Crestware	**44F699**	1
24" L	Crestware	**44F701**	1
French Whips - Aqua Handle			
10" L	Vollrath	**4KJJ1**	1
12" L	Vollrath	**4KJJ2**	1
14" L	Vollrath	**4KJJ3**	1
16" L	Vollrath	**4KJJ4**	1
18" L	Vollrath	**4KJJ5**	1
24" L	Vollrath	**4KJJ8**	1
Piano Whips - Purple Handle			
10" L	Vollrath	**4KJJ9**	1
12" L	Vollrath	**4KJK1**	1
14" L	Vollrath	**4KJK2**	1
16" L	Vollrath	**4KJK3**	1
18" L	Vollrath	**4KJK4**	1
Piano Whips - Stainless Steel Handle			
8" L	Crestware	**44F725**	1
10" L	Crestware	**44F720**	1
12" L	Crestware	**44F721**	1
14" L	Crestware	**44F722**	1
16" L	Crestware	**44F723**	1
18" L	Crestware	**44F724**	1
Squeeze Dishers			
Size 100 Cap., 7⅛"L, Stainless Steel	Crestware	**45GH67**	1
Size 70 Cap., 10"L, Stainless Steel	Crestware	**45GH76**	1
Size 60 Cap., 10"L, Stainless Steel	Crestware	**45GH75**	1
Size 50 Cap., 10"L, Stainless Steel	Crestware	**45GH74**	1
Size 40 Cap., 10"L, Stainless Steel	Crestware	**45GH73**	1
Size 30 Cap., 10"L, Stainless Steel	Crestware	**45GH72**	1
Size 24 Cap., 10"L, Stainless Steel	Crestware	**45GH71**	1
Size 20 Cap., 8¾"L, Yellow	Vollrath	**44X026**	1
Size 20 Cap., 10"L, Stainless Steel	Crestware	**45GH70**	1
Size 16 Cap., 10"L, Stainless Steel	Crestware	**45GH69**	1
Size 12 Cap., 10"L, Stainless Steel	Crestware	**45GH68**	1
Size 10 Cap., 10"L, Stainless Steel	Crestware	**45GH66**	1
Size 8 Cap., 10"L, Stainless Steel	Crestware	**45GH65**	1
Dishers			
Size 100 Cap., 7½"L, Orange	Vollrath	**44X034**	1
Size 70 Cap., 7¾"L, Plum	Vollrath	**44X033**	1
Size 60 Cap., 7¾"L, Pink	Vollrath	**44X032**	1
Size 50 Cap., 7⅞"L, Terracotta	Vollrath	**44X031**	1
Size 40 Cap., 7⅞"L, Orchid	Vollrath	**44X030**	1
Size 40 Cap., 8"L, Purple	Crestware	**45GH55**	1
Size 40 Cap., 8⅜"L, Orchid	Vollrath	**4NDX9**	1

Description	Brand	Item No.	Pkg. Qty.
Size 40 Cap., 12"L, Purple	Crestware	**45GH64**	1
Size 36 Cap., 8⅛"L, Brown	Vollrath	**44X029**	1
Size 30 Cap., 8"L, Black	Crestware	**45GH54**	1
Size 30 Cap., 8⅛"L, Black	Vollrath	**44X028**	1
Size 30 Cap., 8¼"L, Black	Crestware	**45GH63**	1
Size 30 Cap., 8½"L, Black	Vollrath	**4NDX8**	1
Size 24 Cap., 8½"L, Red	Vollrath	**44X027**	1
Size 24 Cap., 8⅜"L, Red	Crestware	**45GH53**	1
Size 24 Cap., 8⅝"L, Red	Vollrath	**4NDX7**	1
Size 24 Cap., 8¾"L, Red	Crestware	**45GH62**	1
Size 20 Cap., 8¾"L, Yellow	Crestware	**45GH61**	1
Size 20 Cap., 8¾"L, Yellow	Vollrath	**4NDX6**	1
Size 20 Cap., 9"L, Yellow	Crestware	**45GH52**	1
Size 16 Cap., 9"L, Blue	Crestware	**45GH51**	1
Size 16 Cap., 8¾"L, Blue	Crestware	**45GH60**	1
Size 16 Cap., 8⅞"L, Blue	Vollrath	**44X025**	1
Size 16 Cap., 9"L, Dark Blue	Vollrath	**4NDX5**	1
Size 14 Cap., 9"L, Sky Blue	Vollrath	**44X024**	1
Size 12 Cap., 8¹³⁄₁₆"L, Green	Crestware	**45GH50**	1
Size 12 Cap., 9¼"L, Green	Crestware	**45GH59**	1
Size 12 Cap., 9⅛"L, Green	Vollrath	**44X023**	1
Size 10 Cap., 9"L, Ivory	Crestware	**45GH49**	1
Size 12 Cap., 9⅞"L, Green	Vollrath	**4NDX4**	1
Size 10 Cap., 9¼"L, Ivory	Crestware	**45GH58**	1
Size 10 Cap., 9¼"L, Ivory	Vollrath	**44X022**	1
Size 10 Cap., 9⅜"L, Ivory	Vollrath	**4NDX3**	1
Size 8 Cap., 9"L, Gray	Crestware	**45GH48**	1
Size 8 Cap., 9¼"L, Gray	Crestware	**45GH57**	1
Size 8 Cap., 9¼"L, Gray	Vollrath	**44X021**	1
Size 6 Cap., 9¼"L, White	Crestware	**45GH56**	1
Size 8 Cap., 9½"L, Gray	Vollrath	**4NDX2**	1
Size 6 Cap., 9⅝"L, White	Vollrath	**44X020**	1
Size 6 Cap., 9⅞"L, White	Vollrath	**4NDX1**	1
Size 6 Cap., 11½"L, White	Crestware	**45GH47**	1
High Temperature Spatulas			
Red Handle Color 10" L	Vollrath	**4NCJ5**	1
Red Handle Color 10½" L	Crestware	**44F705**	1
Red Handle Color 13½" L	Vollrath	**4NCJ6**	1
White/Red Handle Color 14" L	Crestware	**44F710**	1
White/Red Handle Color 16¼" L	Crestware	**44F713**	1
Red Handle Color 16½" L	Vollrath	**4NCJ7**	1
High Temperature Spoon Spatulas			
White/Red Handle Color 7" L	Crestware	**44F706**	1
White/Red Handle Color 10" L	Crestware	**44F711**	1
Red Handle Color 10" L	Vollrath	**4NCJ8**	1
White/Red Handle Color 12" L	Crestware	**44F714**	1
Red Handle Color 13½" L	Vollrath	**4NCJ9**	1
Red Handle Color 16½" L	Vollrath	**4NCK1**	1
Spatulas			
White Handle Color 9½" L	Crestware	**44F718**	12
White Handle Color 9⅝" L	Vollrath	**4NCK2**	1
White Handle Color 13⅜" L	Vollrath	**4NCK3**	1
White Handle Color 14" L	Crestware	**44F708**	12
White Handle Color 16½" L	Crestware	**44F716**	12
White Handle Color 16⅝" L	Vollrath	**4NCK4**	1
Spoon Spatulas			
White Handle Color 6½" L	Crestware	**44F719**	12
White Handle Color 9½" L	Crestware	**44F709**	12
White Handle Color 9½" L	Vollrath	**4NCK5**	1
White Handle Color 11½" L	Crestware	**44F717**	12
White Handle Color 13½" L	Vollrath	**4NCK6**	1
White Handle Color 16½" L	Vollrath	**4NCK7**	1
Spoons			
Basting Spoon 11½"L	Crestware	**45GK35**	1
Basting Spoon 13"L	Crestware	**45GK36**	1
Basting Spoon 15"L	Crestware	**45GK37**	1
Basting Spoon 21"L	Crestware	**45GK38**	1
Perforated Basting Spoon 11¼"L	Crestware	**45GK64**	1
Perforated Basting Spoon 13"L	Crestware	**45GK65**	1
Perforated Basting Spoon 15"L	Crestware	**45GK66**	1

Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)

Scales

TAYLOR

Mechanical Portion Control— Rotating dial allows container weight deduction and ingredient measuring. Removable stainless steel platform and shatterproof lens protect dial, except plastic model No. 3NZN2. No. 3NZN2 includes dishwasher safe bowl and lid and weighs in ¼ oz. and 5g increments.

Digital Portion Control—LCD readout with tare and auto/off features. Overload and low battery indicators. Nos. 3NZG9 and 3NZH1 include AC adapter or operates on one 9V battery. All others run on batteries only.


No. 3NZN2


No. 3NZH4


No. 3NZN5


No. 45RM74

Cap.	Weighing Surface D	W	Overall H	W	L	Standards	Mfr. Model	Item No.
Mechanical Scales								
500g/1 lb.	3"	4¼"	7"	4½"	3¼"	—	37204014T	**3NZN2**
900g/32 oz.	5¼"	6"	8¾"	7"	7"	NSF	TS32F	**3NZH2**
6kg/13 lb.	1"	9¾"	6¾"	9¾"	6¾"	—	38804016T	**3NZN6**
11kg/25 lb.	5¼"	6"	8¾"	7"	7"	NSF	TS25KL	**3NZH3**
50 lb.	5¼"	6"	8¾"	7"	7"	NSF	TS50	**3NZH4**
50 lb.	8¾"	8¾"	10⅝"	8¾"	10½"	—	THD50	**14F322**
Digital Scales								
2 lb.	5⅜"	5⅜"	1⅜"	6"	6¾"	NSF	TE Series	**3NZG9**
4kg/8 lb.	6"	6"	2"	6"	7⅜"	—	3800N	**3NZN5**
5kg/10 lb.	5⅜"	5⅜"	1⅜"	6"	6¾"	NSF	TE Series	**3NZH1**
22 lb.	8½"	8½"	2 13/16"	8½"	12¼"	NSF	TE22FT	**45RM74**

Food Thermometers

TAYLOR

Description	Temp. Range (F)	Accuracy	Includes	Dial Size	Stem Length	NSF Certified	Mfr. Model	Item No.
Analog								
Candy Thermometer	100° to 380°	±5 °F	Pan Clip	2"	6"	Yes	3505	**35HV40**
	100° to 400°	±5 °F	Pan Clip	—	—	Yes	3510	**35HV43**
Chef Thermometer - Features Field Recalibratable	0° to 220°	±2 °F	Pocket Sheath	1"	5"	Yes	3512	**35HV44**
Deep Fry Thermometer	50° to 550°	±10 °F	Pan Clip	2"	12"	Yes	3522	**35HV50**
Meat Thermometer - Features USDA Guidelines	120° to 190°	±2 °F	—	2"	4"	Yes	3504	**35HV39**
Mechanical Food Service Thermometer Food Safety	0° to 220°	±1%	Recall Tool	1"	5"	Yes	6072N	**3NZR8**
Mechanical Food Service Thermometer HACCP Food Safety	0° to 220°	±2 °F, ±1 °C	Safe T Guard Sleeve	1¾"	5"	Yes	8018N	**14F307**
Pocket Test Chef Thermometer	50° to 550°	±5 °F	Pocket Sheath	1"	5"	Yes	3517	**35HV47**
LCD								
Digital Chef Thermometer	-40° to 302°	±-3.5 °F	Pocket Sheath	—	5"	Yes	3516	**35HV46**
Digital Food Service Thermometer	-40° to 176°	±2 °F	—	2¾"	—	—	1445	**53DL84**
	-40° to 450°	±2 °F, ±1 °C	LR44 Battery, Storage Sleeve Printed with Convenient Cooking Temperature Chart	—	5"	—	9836	**14F308**
	-40° to 450°	1°F	(2) Lithium Batteries	—	3¾"	—	9835	**23WF59**
	-40° to 450°	±1.8 °F, ±1 °C	Lithium Battery	—	3¾"	—	9877FDA	**23WF61**
	-40° to 450°	—	1.5V Battery	1½"	4"	Yes	9842FDA	**3NZT1**
	-40° to 450°	—	1.5V Battery	1½"	3½"	Yes	9847FDA	**3NZT2**
	-40° to 500°	—	Mfr. No. CR2032 Battery	2"	4½"	Yes	9878E	**3NZT4**
Digital Food Service Thermometer Candy/Jelly/Deep Fryer	-40° to 450°	±2 °F, ±1 °C	Li-Ion Battery	—	9"	—	983915	**14F310**
Digital Food Service Thermometer - Features Hold Function Allows Continued Temperature Readout Without the Display Going to Sleep	-40° to 572°	±2 °F Between 14°and 212 °F	(2) AAA Batteries	—	4"	Yes	9867FDA	**14F309**
Digital Food Service Thermometer HACCP Food Safety	-40° to 450°	±2 °F	Lithium Battery	1½"	3"	Yes	9848FDA	**3NZT3**
	-40° to 450°	±1 Over HACCP Range	9V Battery	—	—	Yes	9405	**14F318**
Digital Food Service Thermometer with Probe	32° to 392°	—	Probe, Instructions, AAA Battery	—	—	—	1470	**2DBD5**
Digital Thermometer	32° to 392°	±5 °F	(2) AAA Batteries	—	—	Yes	3518N	**35HV48**
Digital Thermometer Coded Purple for Allergy	-40° to 302°	±-2 °C	Pocket Sheath	—	5"	Yes	9840PRN	**35HV28**
Pocket Test Thermometer	-40° to 450°	±5 °F	Pocket Sheath, LR44 Lithium Battery	—	4"	Yes	3519	**35HV49**
Waterproof Thermometer	-40° to 500°	±-1 °F	Pocket Sheath	—	5"	Yes	9878EPR	**35HV29**


No. 35HV40


No. 35HV43


No. 35HV28


No. 14F310


No. 2DBD5

Appliance Thermometers

TAYLOR

Description	Temp. Range (F)	Accuracy	Includes	Dial Size	NSF Certified	Mfr. Model	Item No.
Analog							
Liquid Filled	100° to 600°	±10 °F	—	—	—	5921N	**14F306**
Liquid Filled Food Service Thermometer	-20° to 60°	1°F	—	—	NSF	5927	**23WF60**
	-20° to 80°	±2 °F, ±2 °C	—	—	NSF	3509	**14F312**
Mechanical Food Service Thermometer	100° to 700°	±10 °F/C	Stainless Steel Coil for Lifting Thermometer with Spatula	2"	—	6021	**14F311**
Mechanical Food Service Thermometer HACCP Food Safety	-30° to 70°	±2 °F, ±2 °C	—	2¾"	NSF	5981N	**3NZR5**
Oven Thermometer - Features Hanger	100° to 600°	±5 °F	—	2"	NSF	3506	**35HV41**
Refrigerator/Freezer Thermometer	-20° to 80°	-20 °F ±10 °F, -19°to 0 °F ±4 °F, 0°to 32 °F ±3 °F, 32°to 40 °F ±2 °F, 40°to 80 °F ±5 °F	—	3"	NSF	5924	**444C64**
	-20° to 86°	±-2 °F	—	—	NSF	3503	**35HV38**
LCD							
Digital Food Service Thermometer	-4° to 140°	±0.1 °F/C	Li-Ion Battery	—	—	1443	**14F305**
Infrared Thermometer	-67° to 428°	±0.1%	(1) Batteries, Case	—	No	9527	**35HV21**
	-49° to 752°F	±2°F/±1°C	Nylon Case, (2) AAA Batteries	—	—	9523	**14F320**


No. 23WF60


No. 14F312


No. 14F311


No. 14F320


No. 14F305

Scan. Order. Done.
Details on page A1.









SANI-LAV

Stainless Steel Food Processing Tools

Electropolished finish enhances corrosion resistance and allows easier cleaning.

Shovels—D-handle shovels are specifically designed for use with food, drug, beverage, and chemical processing equipment. Can also be used as a snow shovel.

Forks—For meat, poultry, and other industries where cross-contamination is a concern.

Scoops—Pharma scoops are ideal for use in the pharmaceutical industry and other hygienic applications.

Pails—Heavy-duty, corrosion-resistant construction with no rolled edges or areas to collect dirt or bacteria.

Mixing Paddles—Durable paddles are ideal for moving bulk materials.

Dump Buggies—Heavy-duty construction with a reinforced bottom plate and solid top rim. Standard lifting fitting can be used with most standard loaders and dumpers. Include push handle, replaceable molded plastic wheels, stainless-steel spanners, nuts, and bolts. Use in food processing plants to move food products from one operation to another.

Description	Blade Length	Overall Length	Std.	Mfr. Model	Item No.
Shovels					
Square Point	11"	39"	NSF/ANSI Certified	267	**4XKZ4**
Scoop	12½"	40"	NSF/ANSI Certified	217	**4XKZ2**
	14"	39"	NSF/ANSI Certified	207	**4XKZ1**
	17"	44"	NSF/ANSI Certified	237	**53RJ93**
Chemical/Corrosion Resistant Scoop	15½"	40"	NSF/ANSI Certified	227	**4XKZ3**
Reinforced Scoop	9"	39"	NSF/ANSI Certified	267R	**49P112**
	12½"	40"	NSF/ANSI Certified	217R	**49P110**
	14"	39"	NSF/ANSI Certified	207R	**49P109**
	15½"	40"	NSF/ANSI Certified	227R	**49P111**
	17"	44"	NSF/ANSI Certified	237R	**53RJ94**

Description	Length of Tines	Width of Tines	Spacing	Handle Length	Std.	Mfr. Model	Item No.
Forks							
Fork, 4 Tines	8½"	8¼"	2¾"	35-12"	FDA and USDA, NSF/ANSI Standard 2 - Food Equipment	2074	**4XKY8**
	12"	8¼"	2¾"	32"		2073	**4XKY7**
Fork, 5 Tines	8½"	8¼"	2¾"	35½"		2072	**4XKY6**
	12"	8¼"	2¾"	32"		2071	**4XKY5**
Reinforced Fork, 4 Tines	8½"	8¼"	2¾"	35-12"		2074R	**49P119**
	12"	8¼"	2¾"	32"		2073R	**49P117**
Reinforced Fork, 5 Tines	8½"	8¼"	2"	35½"		2072R	**49P115**
	12"	8¼"	2"	32"		2071R	**49P113**
Super Reinforced Fork, 4 Tines	8½"	8¼"	2¾"	35-12"		2074SR	**49P120**
	12"	8¼"	2¾"	32"		2073SR	**49P118**
Super Reinforced Fork, 5 Tines	8½"	8¼"	2"	35½"		2072SR	**49P116**
	12"	8¼"	2"	32"		2071SR	**49P114**
Drag Fork, 4 Tines	9"	8¼"	2¾"	56½"		2075	**4XKY9**
Reinforced Drag Fork, 4 Tines	9"	8¼"	2¾"	56½"		2075R	**49P121**
Super Reinforced Drag Fork, 4 Tines	9"	8¼"	2¾"	56½"		2075SR	**49P122**
Standard Cheese Fork, 5 Tines	10½"	8¼"	2"	33½"		2076	**49P123**

Cap.	Handle Length	Std.	Mfr. Model	Item No.
Pharma Scoops				
8 oz.	5"	Certified NSF Standard 2 - Food Equipment	43RD	**39F724**
16 oz.	5"	Certified NSF Standard 2 - Food Equipment	44RD	**39F725**
	24"	—	44RD24	**53RK03**
32 oz.	5"	Certified NSF Standard 2 - Food Equipment	40RD	**39F721**
	5"	—	40RB	**53RK04**
50 oz.	5"	Certified NSF Standard 2 - Food Equipment	41RD	**39F722**
	5"	Certified NSF Standard 2 - Food Equipment	42SQ	**39F723**
	5"	—	41RB	**53RK05**
64 oz.	24"	—	400424	**53RK01**
	5"	Certified NSF Standard 2 - Food Equipment	45RD	**39F726**
	5"	—	45RB	**53RK06**
Scoops				
8 oz.	4"	Certified NSF Standard 2 - Food Equipment	3997	**1YPC3**
16 oz.	4"	Certified NSF Standard 2 - Food Equipment	4002	**1YPC4**
32 oz.	4"	Certified NSF Standard 2 - Food Equipment	4003	**1YPC5**
	24"	—	400324	**53RJ99**
64 oz.	4"	Certified NSF Standard 2 - Food Equipment	4004	**1YPC6**
32 oz.	24"	—	400424	**53RK02**
96 oz.	4½"	Certified NSF Standard 2 - Food Equipment	4005	**1YPC7**
128 oz.	4½"	Certified NSF Standard 2 - Food Equipment	3998	**1YPC8**
160 oz.	5"	Certified NSF Standard 2 - Food Equipment	3999	**1YPC9**
Pails				
13 Qt.	—	—	P13	**39F727**
16 Qt.	—	—	P16	**39F729**
Pails w/Bottom Handle				
13 Qt.	—	—	P13H	**39F728**
16 Qt.	—	—	P16H	**39F730**

Description	Std.	Mfr. Model	Item No.
Mixing Paddles			
36"H x 4¾"W x 36"L	—	2078	**39F731**
42"H x 4¾"W x 9¾"L		2079	**39F732**
48"H x 4¾"W x 9¾"L		2080	**39F733**
60"H x 4¾"W x 9¾"L		2081	**39F734**
36H x 4¾"W x 36L, Perforated		2078P	**53RJ95**
42H x 4¾"W x 42L, Perforated		2079P	**53RJ96**
48H x 4¾"W x 48L, Perforated		2080P	**53RJ97**
60H x 4¾"W x 60L, Perforated		2081P	**53RJ98**
Dump Buggies			
V-Edge 28"H x 29½"W x 27½"L	USDA and FDA Approved, Certified NSF/ANSI STANDARD 2 FOOD EQUIPMENT	400	**4ZDW3**
V-Edge 38"H x 29½"W x 27½"L		600	**4ZDW4**
Stainless Steel Dough Hoe			
60" L	NSF/ANSI Certified	2077	**49P124**
Nesting Tray			
26"L x 18"W x 1"D	NSF 2 - Food Equipment	202	**49P125**
Sheet Pan			
13" W x 18" L x 1" D	NSF 2 - Food Equipment	202-1	**31TT35**



CARLISLE

Color-Coded Sanitary Totes

- NSF Certified
- 15" x 20"

Unique reinforced rims reduce bending, bowing and breaking. Comfort Curve™ handles for sure comfortable grip. Contour lid design allows easy box-on-box stacking. Available in 7 colors for HACCP zone use.

▶CHOOSE: Color	Item No.
Tote Box - 5" Deep	
Black, Blue, Gray, Green, Red, White, Yellow	**J4644**
Tote Box - 7" Deep	
Black, Blue, Gray, Green, Red, White, Yellow	**J4645**
Tote Lids	
Black, Blue, Gray, Green, Red, White, Yellow	**J4646**



VOLLRATH

Stainless Steel Pails

Pails come with top bail handle and are suitable for a variety of applications.

Cap.	Item No.
Steam Table Pans w/Side Carry Handles	
12 qt.	**4NCT1**
24 qt.	**4NCT2**
Dairy Pails w/out Side-Tilting Handle	
13 qt.	**4NEA2**
16 qt.	**4NEA3**
Tapered Dairy Pails w/out Side-Tilting Handle	
12½ qt.	**4NDZ8**
14¾ qt.	**4NDZ9**
23 qt.	**4NEA1**
Dairy Pail with Side-Tilting Handle	
14¾ qt.	**4NEA4**
Covered Ice Cream Pail	
20 qt.	**4NDZ6**
Covers	
Hook-On Pail Cover for Nos. 4NDZ8, 4NDZ9, 4NEA1 and 4NEA4	**4NEA5**
Additional Cover for No. 5NDZ6	**4NDZ7**


Shovel
No. E9549


No. F8440


Food Hoe
No. E4127


No. F9104


Floor Scraper
No. F8431


Bench
Scraper
No. F8460


High Temp
Scraper
No. 38Y586


Hygienic
Rake
No. 3LFF6


Hopper Tub
No. 4LMJ3

Color-Coded Hygienic Food Processing Tools

REMCO PRODUCTS Vikan® ★ GA GRAINGER APPROVED

- Chemical- and corrosion-resistant

Conveniently designed to use within a color-coded system. Hygienic design, cleaning efficiency, and color-coding feature helps reduce the risk of cross contamination and improve productivity.

Description	▶CHOOSE: Color	Std.	Brand	Item No.
Hygienic Plastic Shovels, 1-Pc. Design				
38" x 14" x 11"	Pink, Orange, Purple, Black, Green, Blue, Red, White, Yellow	—	Remco	F9120
	Brown, Lime Green, Gray	FDA Compliant	Remco	
42" x 17" x 14"	Purple, Pink, Green, Blue, Red, White, Yellow, Black, Orange	—	Remco	E9549
	Brown, Lime Green, Gray	FDA Compliant	Remco	
38" x 14" x 11" Metal Detectable	Blue, Green, Gray, Red	—	Remco	E4433
42" x 17" x 14" Metal Detectable	Blue, Green, Red, Gray	—	Remco	E4434
D-Handle, 11" Blade	Green, Blue, Red, Yellow, White	—	Vikan	H1590
D-Handle, 12½" Blade	Green, Blue, Red, Yellow, White	—	Vikan	H1589
Dual Grips, 14" Blade	Green, Blue, Red, White, Yellow	—	Remco	H1594
Sieve Shovel, 45° x 12½" x 13½"	White	—	Vikan	31CF42
Hand Scoops				
Small Hand Scoop	Pink, Green, Blue, Red, White, Yellow, Orange, Purple	—	Vikan	J5331
Large Hand Scoop, 64 oz.	Green, Blue, Red, White, Yellow	—	Vikan	J5332
Small Hand Scoop, 16 oz.	Lime Green	—	Remco	G3975
Large Hand Scoop, 16 oz.	Gray	—	Remco	
Small Hand Scoop, 32 oz.	Green, Blue, Red, White, Yellow, Pink, Orange, Purple, Lime Green	—	Remco	
Mini Hand Scoop, 32 oz.	Brown	—	Remco	F8523
Large Hand Scoop, 32 oz.	Gray	—	Remco	
Mega Scoop Dipper, 128 oz.	Green, Blue, Red, White, Yellow, Orange	—	Remco	F8440
Mega Scoop	Orange, Green, Red, White, Yellow, Blue	—	Remco	E4131
Small Scoop, Metal Detectable	Red, Gray, Green, Blue	—	Remco	E4439
Large Scoop, Metal Detectable	Green, Blue, Gray, Red	—	Remco	E4440
Food Hoe				
11" x 8"	Blue, Green, Red, White, Yellow	—	Remco	E4127
Mixing Paddles & Paddle Scrapers				
With Holes, 40" x 13"	Blue, Red, Yellow, Green, White	—	Remco	E9385
With Holes, 52" x 13"	Green, Blue, Red, White, Yellow	—	Remco	F9104
Without Holes, 40" x 13"	White, Blue, Green, Yellow, Red	—	Remco	E9386
Without Holes, 52" x 13"	Green, Blue, Red, White, Yellow	—	Remco	F9103
Without Holes, 52 x 9"	Pink, Orange, Purple	—	Remco	
Without Holes, 52" x 13"	Red, Green, Gray, Blue	—	Remco	E4436
Stiff, Without Holes, 4½" x 6"	Green, Blue, Red, Yellow, White	—	Vikan	H1595
Flexible, Without Holes, 4½" x 6"	Green, Blue, Red, Yellow, White	—	Vikan	H1596
Floor Scrapers				
Nylon Blade, 7" x 10¼"	Green, Blue, Red, White, Yellow, Black	—	Remco	F8431
Stainless Steel Blade, 7" x 10¼"	Green, Blue, Red, White, Yellow, Black	—	Vikan	F8432
Hand Scrapers				
Stainless Steel Hand Scraper, 8⅞" x 1½"	Brown, Lime Green, Gray, Pink, Green, Blue, Red, White, Yellow, Orange, Purple, Black	FDA Compliant	Remco	J5452
Stainless Steel Hand Scraper, 8⅞" x 3"	Brown, Lime Green, Gray, Pink, Green, Blue, Red, White, Yellow, Orange, Purple, Black	FDA Compliant	Remco	J5453
Large Hand Scraper, 9¾" x 4½"	Purple, Pink, Green, Blue, Red, White, Yellow, Black, Orange	—	Remco	F8986
	Brown, Lime Green, Gray	FDA Compliant	Remco	
Small Hand Scraper, 8" x 3"	Pink, Orange, Purple, Green, Blue, Red, White, Yellow, Black	—	Remco	F9102
	Brown, Lime Green, Gray	FDA Compliant	Remco	
8" x 3" Metal Detectable	Gray, Green, Blue, Red	—	Remco	E4437
9¾" x 4.4" Metal Detectable	Green, Blue, Red, Gray	—	Remco	E4438
Mini Bench Scraper 5½" x 3½"	Green, Blue, Red, White, Yellow	—	Remco	
Mini Bench Scraper 5¼" x 3⅜"	Pink, Orange, Purple	—	Remco	H1593
	Brown, Lime Green, Gray	FDA Compliant	Remco	
Mini Bench Scraper 5½" x 3½" Metal Detectable	Green, Red, Blue, Gray	—	GA	G3976
Bench Scraper 8½" x 5¼"	Purple, Green, Blue, Red, White, Yellow, Pink, Orange	—	Remco	F8460
	Brown, Lime Green, Gray	FDA Compliant	Remco	
8½" x 5" Metal Detectable	Green, Red, Blue, Gray	—	Remco	G3977
High Temp Scraper Up to 465° F, 4 7/16" x 9¾"	Blue	—	GA	38Y586
Fork and Rake				
Hygienic Fork 10½" x 10½" x 49"	White	FDA, USDA	Vikan	4EY29
Hygienic Rake 7½" x 8"	White	—	Vikan	3LFF6
Tubs and Undercarriages				
Lid for Large-Volume Color-Coded Modular Tub Carts - Polyethylene 4¼" x 32" x 56"	Green, Blue, Red, Yellow, White	FDA and USDA Approved	Remco	K2490
Lid for Large-Volume Color-Coded Modular Tub Carts - Polyethylene 1¾" x 27" x 47"	Green, Blue, Red, Yellow, White	FDA and USDA Approved	Remco	K2491
Angled Dump Tub - Polyethylene 21¾" x 32" x 54½"	White	FDA and USDA Approved	Remco	4LMJ3
Transport Storage Tub - Polyethylene 21¾" x 32" x 54½"	White	FDA and USDA Approved	Remco	4LMJ8
Stacking and Nesting Tote Tub - Polyethylene	White	—	Remco	4LMK3
Lid for Tote Tub - Polyethylene	White	—	Remco	4LMK4
Pallet for Tote Tub - Polyethylene	White	—	Remco	4LMK5
Dumping-Style Hopper Undercarriage - Steel 19⅛" x 27¼" x 41⅛"	—	—	Remco	4LMJ5
Low Hopper Undercarriage - Steel 8⅞" x 26⅞" x 40¼"	—	—	Remco	4LMJ7
Dumping-Style Hopper Undercarriage - Stainless Steel 19⅛" x 27¼" x 41⅛"	—	—	Remco	4LMJ6
Low Hopper Undercarriage - Steel 9⅜" x 21⅝" x 42½"	—	—	Remco	4LMK2



No. 31EV90



No. 31EW23

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

Popcorn Makers and Wagons

Popcorn Makers have enclosed heat lamp and heated corn deck that keeps popcorn warm. Auto shut off safety features included with Goldrush, T-2000 and T-3000 models. Eye level rocker control switches and illuminated kettle heat switch makes machine easy to operate. The 1-pc., nickel plated all steel popping kettle features a clean-in-place design. No. 31EV90 is steel with powder-coated finish to resist scratching. Tempered safety glass windows resists scratching. No. 31EW23 includes 32 oz. popper and caramelizer mounted on welded stainless steel table; ideal for caramel corn and cheese corn production.

Description	Cap.	H	W	Item No.
Popcorn Makers				
Apprentice	6 oz.	27½"	21"	**31EV88**
Goldrush	6 oz.	27½"	21"	**31EV90**
Trilogy	8/12/16 oz.	34½"	24"	**31EV89**
T2000	8 oz.	30½"	21"	**31EV91**
T3000	12 oz.	34½"	24"	**31EV92**
Popcorn Coaters				
Coater Mixer Tumbler	4.5 gal.	30"	26"	**31EW22**
Popcorn Wagon Bases				
Goldrush Knockdown Wagon for 6 oz. Poppers	—	31¼"	40½"	**31EV93**
T2000 Assembled Wagon for 8 oz. Poppers	—	32¼"	41¾"	**31EV94**
T3000 Assembled Wagon for 8/12/16 oz. Poppers	—	32"	44½"	**31EV95**
Gourmet Popping Plant				
Twin Gourmet Popping Plant	32 oz.	62½"	83½"	**31EW23**



No. 31EV99



No. 31EW01

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

Cotton Candy Machines, Wagon, and Cabinet

Description	Cap.	Bowl Size	H	W	Item No.
Ringmaster Cotton Candy Machines					
Ringmaster Lite	8 to 10 lb.	26"	17¼"	13"	**31EV99**
Ringmaster 5	10 to 12 lb.	26"	17¼"	13½"	**31EV97**
Ringmaster 7	15 to 18 lb.	26"	17½"	13½"	**31EV98**
Ringmaster 2-Wheel Wagon, and Cabinet					
Cotton Candy Wagon	—	—	30"	40"	**31EW01**
Cotton Candy Cabinet	75 lb.	—	71½"	27½"	**31EW02**
Cotton Candy Bowl	—	—	9"	26"	**31EW03**



No. 31EW06

Shaved Ice and Snow Cone Machines

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

Snow Cone Ice Shaver with ½ HP shaves up to 500 lb. of ice per hour. Accepts any type of cube style ice and chunks up to 4½" dia. Includes stainless steel blade. Heavy-duty cast aluminum. Leakproof Ice Shaver Display Case with sealed corners has tinted blue Plexiglass with front and side views. Slide down door provides easy access. Sturdy platform holds the shaver. Case equipped with soft fluorescent lights includes nylon ladle, ice scoop, ice pick, and 6 oz. cup dispenser.

Description	Item No.
Snow Cone Ice Shaver	**31EW05**
Ice Shaver Display Case	**31EW06**

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

FISCHER
PAPER PRODUCTS

Popcorn Bags

- Paper material



Nos. 31EW35 to 31EW32



No. 45KK04

Description	Size	Brand	Item No.	Pkg. Qty.
Support Our Troops Bags-Medium	2½ oz.	Cretors	**45KK04**	500
Popcorn Bag-Small	1 oz., 3½" W, 8" L, 2" Gusset	Fischer	**462D29**	1000
Eco-Popcorn Bags-Small	1½ oz.	Cretors	**31EW32**	1000
Eco-Popcorn Bags-Medium	2½ oz.	Cretors	**31EW33**	500
Eco-Popcorn Bags-Large	4 oz.	Cretors	**31EW34**	500
Eco-Popcorn Bags-XL	5 oz.	Cretors	**31EW35**	500



No. 31EW09



No. 31EW10



No. 31EW11

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

Hot Dog Grills

- 120V

Broiler heats frozen hot dogs in 20 minutes and warms up to 48 buns. Grill provides complete rotation and included grease trap allows cooking of sausages. Feature stainless steel construction and digital temperature controls.

Cap.	Amps	Watts	H	D	W	Item No.
Hot Dog Broiler						
Up to 36 Hot Dogs, 48 Buns	10	1200	17	25	35½	**31EW09**
Slanted Hot Dog Roller Grill						
Up to 24 Hot Dogs	8.3	1000	8	22	22	**31EW10**
Up to 36 Hot Dogs	15.4	1850	9½	24	35½	**31EW11**



Cotton Candy Floss
No. 31EW26



Popcorn Portion Packs
No. 31EW24



Popcorn Portion Packs
No. 45KK03



Caramel Mix
No. 31EW36

Cretors
We invented the popcorn machine
THEN JUST KEPT GOING!

Concession Ingredients

Ready-to-use, great tasting ingredients make it simple to use for any concession areas or food service operations. Convenient popcorn portion packs are premeasured with corn, oil, and salt.

Description	Size	Item No.	Pkg. Qty.
Floss Sugar For Use With Cotton Candy Machines			
Pink Vanilla Cotton Candy Floss	3¼ lb.	**31EW25**	6
Blue Raspberry Cotton Candy Floss	3¼ lb.	**31EW26**	6
Cherry Cotton Candy Floss	3¼ lb.	**31EW27**	6
Grape Cotton Candy Floss	3¼ lb.	**31EW28**	6
Green Apple Cotton Candy Floss	3¼ lb.	**31EW29**	6
For Use With Popcorn Machines, Gourmet Cookers, and Tumblers			
Popcorn Portion Packs	8 oz.	**31EW24**	36
Popcorn Portion Packs, for 12, 14 or 16 oz. Capacity Machines	16 oz.	**45KK03**	24
Caramel Mix	2⅝ lb.	**31EW36**	12
Neutral Glaze Mix	42 oz.	**31EW37**	12
Non-Stick Lethicin	1 gal.	**31EW38**	4

Professional Grills

CROWN VERITY

Note: Hoods for grills are sold separately, unless noted in Description (see below).

CHARCOAL GRILL

Features removable legs. Grilling surface adjusts to 3 heights. 4" swivel casters, 2 are locking.

GAS GRILLS

Constructed of rust-resistant 304 stainless steel and have a lifetime warranty on the body and cooking grids. Burners have a 10-year warranty. Water pans prevent grease fires from occuring and ease cleaning. Grills include two 5" total-lock swivel casters and two ABS plastic wheels.


No. 5YGG8


No. 12H016


No. 5YGG9

Description	BtuH	Burners	Cooking Surface Dim.	Propane Tank Cap.	Includes	Overall L	Overall D	Overall H	Item No.
Charcoal Grill	—	—	60 x 24"	—	Removable Legs, Adjustable Grilling Surface	72"	24"	31"	**5YGG8**
Gas Grill w/Hood	64500	4	28 x 21"	One 20-lb. Tank	Grill, Hood, Warming Rack, End Shelf, and Outdoor Cover	46½"	28"	52"	**12H016**
Gas Grill	64500	4	28 x 21"	One 20-lb. Tank	Built-In Tank Holders, Hoods are Not Included	38"	28"	36"	**5YGH5**
Gas Grill	79500	5	34 x 21"	One 20-lb. Tank	Built-In Tank Holders, Hoods are Not Included	44"	28"	36"	**5YGH4**
Gas Grill w/Hood	79500	5	34 x 21"	One 20-lb. Tank	Grill, Hood, Warming Rack, End Shelf, and Outdoor Cover	52½"	28"	52"	**12H018**
Gas Grill	99000	6	46 x 21"	Two 20-lb. Tanks	Built-In Tank Holders, Hoods are Not Included	56"	28"	36"	**5YGH3**
Gas Grill	99000	6	46 x 21"	One 40-lb. Tank	Grill Only	56"	28"	36"	**12H033**
Gas Grill	129000	8	58 x 21"	Two 20-lb. Tanks	Built-In Tank Holders, Hoods are Not Included	69"	28"	36"	**5YGG9**
Gas Grill	129000	8	58 x 21"	Two 30-lb. Tanks	Hoods are Not Included	69"	28"	36"	**5YGH0**
Gas Grill	159000	10	70 x 21"	Two 20-lb. Tanks	Built-In Tank Holders, Hoods are Not Included	81"	28"	36"	**5YGH1**

CROWN VERITY Coleman

Grill Covers and Hoods

Description	Brand	Item No.
Grill Covers		
32"W x 24"D x 16"H	Crown Verity	**12H047**
38"W x 24"D x 16"H	Crown Verity	**12H049**
40"W x 30"D x 50"H	Crown Verity	**12H046**
46"W x 30"D x 50"H	Crown Verity	**12H048**
50"W x 24"D x 16"H	Crown Verity	**12H051**
52"W x 21½"D x 29"H	Coleman	**35MF24**
56"W x 30"D x 50"H	Crown Verity	**12H050**
72"W x 30"D x 50"H	Crown Verity	**12H052**
74"W x 28"D x 30"H	Crown Verity	**12H054**
84"W x 30"D x 50"H	Crown Verity	**12H053**
Hoods and Shelf		
30" Roll Dome Hood	Crown Verity	**5YGH6**
36" Roll Dome Hood	Crown Verity	**5YGH7**
48" Roll Dome Hood	Crown Verity	**5YGH8**
Stainless Steel Removable End Shelf	Crown Verity	**5YGJ2**


Grill Cover


Roll Dome Hood


End Shelf

ultra site

Pedestal Grills

Constructed of durable, rust-resistant, high-temperature, black powder-coat firebox. Feature inground-mount posts and 7-ga. base plates with 10-ga. side plates.


No. 12A237

Type	Burners	Cooking Surface Dim.	L	D	H	Item No.
Adjustable	1	300 sq. in.	23"	15"	38"	**12A237**
Cantilever	1	300 sq. in.	23"	19"	40"	**12A238**
Bi-Level	2	1008 sq. in.	39"	39"	38"	**12A241**
Double Cantilever	2	1064 sq. in.	33"	44"	40"	**12A240**

ultra site

Fire Rings

Each ring is a durable, rust-resistant, high-temperature, powder-coated steel firebox. 7-ga. outer wall has a 1" safety lip. Include staple anchors for a permanent inground mount. No. 12A244 is adjustable.


No. 12A244

Item	Cooking Surface Dim.	L	D	H	Item No.
Fire Ring	285 sq. in.	32"	30"	16"	**12A244**
Fire Ring	300 sq. in.	32"	30"	7"	**12A242**
ADA Fire Ring	300 sq. in.	38"	30"	18"	**12A243**


No. 4KDH8

No. 6PVG3


No. 4KDH4

Grill and Oven Cleaning Tools

CARLISLE VOLLRATH

Will not absorb grease or odors.

Description	Brand	Item No.	Pkg. Qty.
7¼"L Toothbrush with ½" Nylon Bristles	Carlisle	**4KDH7**	12
7"L Toothbrush with ½" Stainless Steel Bristles	Carlisle	**4KDH8**	12
10" Pizza Oven Brush with Scraper, Crimped Brass Bristles (Head Only)	Carlisle	**14D303**	12
11½"L Plastic Handle Scraper with Carbon Steel Bristles	Carlisle	**4KDJ1**	12
20"L Wood Handle Scraper with Carbon Steel Bristles	Carlisle	**4KDH9**	12
21⅝"L Grill Tender® Scraper with Splashguard	Vollrath	**6PVG3**	1
30½"L Wire Brush with Stainless Steel Bristles	Carlisle	**4KDH4**	6

Oster


No. 38FA43

Toaster Oven

- Heat up to 450°F
- 120V

Stainless steel models provide you with the convenience of an oven on your countertop. Toast, bake, and broil foods easily with electronic controls. Include baking pan and broiling rack insert.

Holding Capacity	Amps	Overall H (in.)	Overall W (in.)	Overall Length (in.)	Item No.
Convection Oven					
4 Slice	8.3	14 1/10	18⅛	22½	**38FA43**

Scan. Order. Done.
Details on page A1.

FOLLETT ICE



Ice Chute
No. 31MX29



Solenoid
No. 31MW69

HOSHIZAKI



Grille
No. 19XL28



Micro Switch
No. 24EU51



Water Valve
No. 24EU23

ICE-O-MATIC



Water Pump
No. 30NW76

MANITOWOC ICE



Control Board
No. 28ZL38



Dump Valve
No. 20Z811



Ice Thickness Probe
No. 20Z833



Toggle Switch
No. 20Z826



USB Flash Drive
No. 20Z821

SCOTSMAN



Electronic Control Kit
No. 38Y215



Ice Thickness Sensor
No. 38Y216



Water Sensor and Harness
No. 38Y227

Ice Machine Replacement Parts

Genuine OEM replacement and repair parts for ice machines. Don't see what you need? Find even more at Grainger.com®.

Description	Mfr. Model	Item No.
Follett Ice		
Bottom Bearing	PI502738	**31MW66**
Control Board	PD502242	**31MW84**
Dispenser Chute Cover	PD502681	**31MW65**
Dispenser Chute Cover	PD502439	**31MX11**
Dispenser Switch	PD501318	**31MX02**
Dispenser Switch Lever	PD501714	**31MW96**
Drain Grill	01050277	**43EH11**
Drain Pan	00108829	**31MX01**
Drain Pan Bracket	00136077	**31MX22**
Drain System O-Ring	PB502022	**31MW71**
Fastener Plunger	PD502057	**31MW55**
Gear Box and Motor	00142034	**31MX68**
Gearmotor	PI502730	**31MX03**
Ice Chute	00981225	**31MX29**
IM Board	PI502331	**31MW74**
Inspection Door	PB502264	**31MW61**
Inspection Door	PB502237	**31MW54**
Quick Release Pin	PD501949	**31MW85**
Sani Sponge Kit	00132068	**31MW67**
Sealed Sensor Assembly	00116533	**31MX45**
Sensor Lens	PD502690	**31MX17**
Smartgate	PB502363	**31MW72**
Solenoid	PD501961	**31MW69**
Solenoid Boot	PD502098	**31MX62**
Solenoid Valve	00130765	**31MW59**
Solenoid Valve	00130831	**31MW63**
Solenoid Water Valve	PD502243	**31MW76**
SS Sensor Kit	00122978	**31MW62**
Switch	PD502441	**31MW86**
Temperature Controller	00900084	**31MX48**
Thermostat	PI500514	**31MW58**
Thumb Screw	PD501100	**31MW75**
Top Bearing Assembly	PI502736	**31MX04**
Valve and Reservoir Float	PI500504	**31MW57**
Water Filter Cartridge	00130211	**31MW73**
Water Filter Cartridge	00130245	**31MW56**
Water Filter System	00130229	**31MX27**
Welded Grille	00108845	**31MW82**
Hoshizaki		
Door Switch	3A1826-01	**24ET41**
Drain	309246-01	**24ET14**
Drain Board	3A2145-01	**24ET42**
Float Switch	4A3624-01	**24EU61**
Grille	102936-04	**19XL28**
Micro Switch	4A2546-01	**24EU51**
Pump Assembly	PA0613	**24EV02**
Pump Motor	2U0106-01	**24ET13**
Pump Motor Assembly	S-0730	**24EV03**
Replacement Filter	H9655-11	**31XC11**
Shelf Clip	428957-01	**24ET78**
Tee	4A0177-01	**24EU12**
Thumb Screw	434168G01	**24ET86**
Truss Head Screw	7C32-0416	**24EU81**

Description	Mfr. Model	Item No.
Water Valve	4A2772-01	**24EU53**
Water Valve	4A0865-01	**24EU23**
Water Valve	3U0111-04	**24ET52**
Ice-O-Matic		
Cap Lug	9131026-02	**30NW81**
Fan Blade, 38 deg., 10 in.	9131332-02	**30NW73**
Fitting Drain	9091140-01	**30NW67**
Float Valve	9131111-01	**30NW72**
Gasket Bin Door	6081036-01	**35XA44**
Hi-Temp Y Thermostat	9041087-03	**30NW84**
Inlet Water Valve	1011337-28	**30NW88**
Limit Switch	9101124-02	**30NW69**
Low Pressure Service Kit	9041104-101A	**63RN28**
Pump Water 1550 Rpm 220V	ICE9161076-02	**35XD67**
Purge Valve, 120V	9041105-04	**30NW64**
Purge Valve, 120V	9041105-01	**30NW63**
Relay, 2 Pole, 120V	9101084-01	**30NW68**
Relay, 2 Pole, 240V	9101084-02	**30NW87**
Replacement Filter Cartridge	IOMQ	**36RF14**
Splash Curtain	9051154-08	**30NW65**
Splash Curtain	9051154-07	**30NW91**
Thermostat	9041004-02	**30NW83**
Thermostat Bin Control	9041097-01	**30NW61**
Timer Module	9101148-01	**30NW70**
Water Distribution Tube Assembly	2041338-01	**30NW86**
Water Filter Cartridge	IOMWFRC	**30NW89**
Water Press Regulator	9041059-01	**30NW90**
Water Pump	9161076-01	**30NW76**
Water Pump	9161079-03	**30NW77**
Water Pump	1011337-31	**30NW82**
Manitowoc Ice		
Bin Door Assembly	7624493	**28ZL34**
Bin Door Assembly	7628503	**28ZL33**
Bin Door Assy	7602603	**28ZL09**
Bin Door Assy,S400/570	7628453	**28ZL30**
Bin Switch	23-0148-3	**20Z827**
Control Board	2006199	**28ZL31**
Control Board	7629073	**28ZL29**
Control Board	7627823	**28ZL38**
Door And Frame Assembly	040001716	**28ZK86**
Door And Frame Assembly	40001717	**28ZL03**
Dump Valve	000001768	**20Z812**
Dump Valve	000001767	**20Z811**
Fan Motor 115V/60Hz,When Repl	2412929	**28ZL20**
Fan Motor Kit, 208-230V	7626723	**28ZL28**
Ice Thickness Control	20-0802-9	**20Z825**
Ice Thickness Probe	76-2781-3	**20Z833**
Ice Thickness Probe	000008660	**20Z820**
Motor	020003650	**43EH64**
O-Ring,Package Of 6	5004649	**28ZJ38**
Relay	8505533	**43EH80**
Replacement Cartridge Shurflo	122T05	**33RP90**
Toggle Switch	23-0134-3	**20Z826**
USB Flash Drive	000009169	**20Z821**

Description	Mfr. Model	Item No.
Water Curtain	4304643	**28ZK69**
Water Curtain	4005233	**28ZK81**
Water Curtain	4012729	**28ZL06**
Water Curtain	4008513	**28ZK78**
Water Distribution Tube Assembly	7624983	**28ZK47**
Water Inlet Valve	9122	**20Z818**
Water Inlet Valve	000009123	**20Z817**
Water Level Probe	20-0654-9	**20Z822**
Water Pump	7623063	**28ZL24**
Water Pump,115/60/1	2008929	**28ZL11**
Nu-Calgon		
Ice Machine Sanitizer	4211-34	**45YY10**
Scotsman		
Bearing Replacement	02-4578-02	**28ZT61**
Bin Level Control	A37710-021	**28ZR52**
Breaker and Bearing	A34505-020	**28ZT59**
Cartridge	SSMRC1	**28ZR42**
Circuit Board	12-2843-21	**38Y230**
Clear1 Cleaner	19-0653-01	**28ZM41**
Dispensing Motor	12-2677-21	**28ZT47**
Door Gasket, 1 ft.	13-0595-00	**38Y217**
Electronic Control Kit	12-2838-24	**38Y215**
Gear Reducer and Motor	A33220-021	**38Y253**
Grill	02-2951-01	**38Y232**
Ice Chute	02-1995-01	**38Y238**
Ice Level Control	11-0540-21	**38Y212**
Ice Thickness Sensor	A39031-021	**38Y216**
Inlet Valve	12-1646-01	**38Y246**
Inlet Valve	12-1646-04	**28ZR21**
Motor	18-8850-01	**28ZR77**
Reducer, Less Motor	A33220-030	**28ZT64**
Replacement Cartridge Ssm	SSMRC6	**28ZT51**
Reservoir Valve	02-3266-02	**28ZP49**
Sensor Touch Free	12-2551-20	**28ZT16**
Sink	02-2944-20	**38Y241**
Spout	02-3944-01	**28ZM88**
Sump Level Sensor Assembly	11-0539-51	**38Y214**
Temperature Sensor	02-3410-21	**38Y220**
Touch Free Sensors	12-2495-21	**28ZT03**
Water Header Top	02-4065-01	**28ZM37**
Water Inlet Solenoid	12-2922-01	**38Y228**
Water Level Sensor	A39030-021	**38Y218**
Water Pump	12-2419-71	**28ZT24**
Water Pump	12-2919-21	**28ZT02**
Water Pump	12-2586-27	**38Y224**
Water Pump	12-2586-21	**38Y229**
Water Pump	12-2582-21	**38Y234**
Water Reservoir and Float	02-3266-01	**38Y243**
Water Seal	02-0929-23	**38Y223**
Water Sensor and Harness	A33101-022	**38Y227**
Water Solenoid Valve	12-2666-01	**38Y219**
Water Valve	12-2548-01	**38Y213**

Small Part. Big Problem.

When one small part fails, one large operation may go down. We can help you reduce costly downtime with thousands of quality OEM repair and replacement parts. Let us help you find what you need fast.

Visit **grainger.com/repairparts** to learn how!



Fuse, 6.3A
No. 21VM61



Cooling Fan
No. 21VY45



Gas Valve Knob
No. 21WF49



Thermostat
No. 21WF20



Blade
No. 21WG23



Power Switch Harness Assembly
No. 28ZY56

Food Service Replacement Parts

Original equipment manufacturer parts for counter top equipment, coffee makers, food preparation, fryers, ovens, slicers, ranges, refrigeration, freezers and more. Search for your replacement part on Grainger.com® for the full product offering.

Item	Mfr. Model	Item No.
Coffee Maker		
Bunn		
Dish Warmer Assembly	41188.1000	**35DV82**
Flip Lid	38497.1000	**35DV08**
Flip Lid	38498.1000	**35DV94**
Limit Thermostat	29329.1000	**35DV53**
On/Off Switch	04067.0001	**35DV50**
On/Off Switch	12920.0000	**35DW28**
Probe Assembly Kit	39085.1001	**35DV36**
Probe Replacement Kit	29327.0001	**35DV87**
Tank Heater Kit	04236.1000	**35DV37**
Timer Kit	32400.0000	**35DU93**
Water Pitcher	04870.0000	**35DV19**
Combination Oven		
Alto Shaam		
Cleaner	CE-28892	**21VM32**
Drain Screen	DA-2943	**21VM44**
Fiberglass Insulation	IN-22364	**21VN07**
Filter Cartridge	FI-26356	**21VM59**
Fuse, 6.3A	FU-33452	**21VM61**
Lamp, 15W	LP-3686	**21VN28**
Light Bulb, 25W	LP-34206	**21VN27**
Odor Guard Filter	FI-25866	**21VM58**
Quick Connect Probe	PR-34298	**21VN53**
Temperature Gauge	GU-3273	**21VM89**
Temperature Gauge	GU-34197	**21VM91**
Blodgett		
Axial Fan, 230V	23034	**21WC40**
Control, 120V	R5707	**21WE47**
Element Assembly	20319	**21WC01**
Halogen Bulb, 20W	D0128	**21WD96**
Spark Box Assembly	20348	**21WC04**
Cleveland		
Y-Strainer Chrome Plated	KE52702	**32ZE90**
Counter Top		
APW Wyott		
Adjustable Leg, 4 in.	8632100	**21VY62**
Complete Hot Food Well	55361	**21VU11**
Cooling Fan, 120V	85286	**21VY45**
Drain Strainer Assembly	56655	**21VU71**
Drawer Slide Nut ¼-20 Nylock	88893	**21VY89**
Fuse, 3A	85601	**21VY47**
Indicator Light, Amber, 250V	1515300	**21VP96**
Infinite Control 120V, 13A	55564-EGO	**21VU30**
Infinite Control 120V, 15A	55564	**21VU29**
Infinite Control 208V, 13A	87054-EGO	**21VY69**
Infinite Switch, 120V, 13A	1327900	**21VP41**
Infinite Switch, 220V, 13A	1328200	**21VP42**
Jiffy Clip	89120	**21VZ02**
Knob	55825	**21VU36**
Lamp, 40W, 120V	75916	**21VX41**
Limit Thermostat	69106	**21VU92**
Pan Element, 8 in.	63456	**21VU82**
Perma Gum Package Assembly	55872	**21VU37**
Porcelain Socket	73003	**21VX06**

Item	Mfr. Model	Item No.
Rheostat, 120V	83221	**21VX77**
Rheostat, 1K Ohm	86281	**21VY57**
Rheostat, 208/240V	83222	**21VX78**
Rocker Switch	70444800	**21VX05**
Rocker Switch	89501	**21VZ11**
Speed Nut	89025	**21VY94**
Spring	8902200	**21VY92**
Strain Relief Bushing	89101	**21VY99**
Switch	67005	**21VU88**
Thermostat	56527	**21VU56**
Cleveland		
Temp Sensor	SK50933-1	**28ZJ27**
Vollrath		
Miniature Rocker Switch	23420-1	**21WH72**
Power Cord, 16 ga.	17085-1	**21WH58**
Power Cord, 18 ga.	17023-1	**21WH54**
Screw Thread Rolling, 10-32	17014-3	**21WH53**
Short Stem Thermostat	17037-1	**21WH55**
Silicone Rubber Heater Gasket	17868-1	**21WH69**
Freezer		
True		
Lamp, F013	801159	**33RR37**
Motor, 115V	800439	**32ZH95**
Motor, 115V	800448	**32ZH96**
Fryer		
Imperial		
Buzzer	33496-230	**21WF55**
Fan, 115V	33648-115	**21WF56**
Gas Valve Knob	28328	**21WF49**
High Limit Switch	1177	**21WF22**
Micro Door Switch	1355	**21WF30**
Oven Thermocouple	1121	**21WF03**
Pilot Burner Assembly	10000-9	**21WE86**
Power Switch	1126	**21WF04**
Thermopile	1096	**21WE93**
Thermostat	1175	**21WF20**
Thermostat	1160	**21WF12**
Gas Mixing Kettles		
Cleveland		
Bridge Rectifier,600V	KE50581	**28ZG74**
Griddle		
Ignitor/Pilot Assembly,T1/T4	SK2477000	**28ZJ10**
Cleveland		
Ignitor/Pilot Assembly,T1/T4	SK2477000	**28ZJ10**
Vulcan Hart		
Fenwal Ignition Module	00-498443	**29AA45**
Oven		
Blodgett		
Flex Hose	33249	**21WC83**
Fuse, 10A	20162	**21WA97**
Lamp Socket	4922	**21VZ55**
Light Indicator, Red, 28V	18265	**21WA72**
Reducer,Stainless Steel, ¾ To ½ NPT	55107	**19XL05**
Rotary Switch	21068	**21WC25**
Stainless Steel Reducer	55107	**19XL05**

Item	Mfr. Model	Item No.
Prep Machine		
Globe		
Power Cord Strain Relief	877	**19XL21**
Rubber Foot	40	**24ER07**
Robot Coupe		
Blade	27055	**21WG23**
Cutter Bowl Lid	106458S	**21WF99**
Lid	29341	**21WG43**
R2N Motor Support, 3 qt.	39108	**21WG55**
S Blade	27061	**21WG24**
Speed Control Pot	RV6043	**21WG97**
Vollrath		
Hex Nut,5/16-18,Nyloc	353	**32ZJ24**
Rubber Foot,1/2" dia.	303	**32ZJ21**
Ranges		
Cleveland		
Pinch Valve,1 in.	104464	**28ZJ25**
Garland Manufacturing		
Door Spring	1005800	**21WE67**
Knob	1089100	**21WE70**
Vulcan Hart		
Burner Knob	00-499595-00001	**28ZX14**
GE Motor	00-419720-00002	**29AC74**
Pilot Tip	00-412063-00002	**28ZX44**
Power Switch Harness Assembly	00-427755-000G1	**28ZY56**
Water Level Probe	00-817233	**28ZZ60**
Refrigeration		
Silver King		
Starter, 115V/230V	99184P	**29PC68**
Transformer Assembly	26039	**28ZV63**
True		
Defrost Timer	831971	**21WH31**
Lamp, 120V	801112	**21WH14**
Motor	800401	**21WH06**
Shelf Clip Kit	920158	**21WH48**
Steamer		
Cleveland		
Coupling, ⅛ in.	104838	**28ZG26**
Hex Lock Nut, ¼-20	14665	**28ZG19**
Ignition Module Control	03546	**28ZJ16**
Immersion Element,208 to 220V	FK103881	**28ZJ14**
Motorized Timer	110198	**28ZH66**
O-Ring	FA05002-37	**28ZG20**
O-Ring,EPDM-E50	FA05002-12	**28ZG11**
Screw,8-32x1/2 in.	FA11092	**32ZE75**
Steam Valve,3/4	KE02055-3	**28ZJ15**
Transformer,120-24V	20528	**28ZH17**
Vulcan Hart		
Filter Replacement Kit	00-854306-00013	**29AC59**

Refrigeration Replacement Gaskets

For all of your OEM door gaskets and refrigeration equipment needs, search using your manufacturer model or serial number. To properly size a gasket, measure the existing outside edge to outside edge. Visit Grainger.com® for the full product offering.








No. 6PPJ8


No. 6PPJ1


No. 6PPK5


No. 6PPK1


No. 20CA48


No. 6PPJ7

Commercial Refrigerators and Freezers

Provide years of reliable service in demanding commercial applications. Most models come with heavy-duty casters (height does not include casters).

True®—Include NSF-certified temperature gauge and a dynamic condenser that delivers superior performance in high-temperature food service environments. Adjustable shelves feature stainless steel supports and chrome-plated clips. Freezer lids include locks, except for Nos. 6PPK6 and 6PPK8.

Everest®—Feature 5-yr. manufacturer's warranty on compressor and 2-yr. on parts and labor. Reach-In units have a digital thermostat and top mount condensing unit. Glass door models are bottom mount. All units are lockable, except No. 20CA57.

Note: For repair parts, go to Grainger.com®.

Description	Color	Refrigerator Cap.	Freezer Cap.	H	W	D	Door Style	Includes	Std.	Brand	Mfr. Model	Item No.
Refrigerators												
Undercounter	Stainless Steel	6.5 cu. ft.	—	29¾"	27½"	30"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	TUC-27-HC	**6PPJ8**
	Stainless Steel	12.0 cu. ft.	—	35⅞"	48¼"	30"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	TUC-48-HC	**6PPJ9**
Commercial	Stainless Steel	23.0 cu. ft.	—	78⅜"	27"	29½"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	T-23-HC	**6PPJ1**
	Stainless Steel	49.0 cu. ft.	—	81½"	54⅛"	29½"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	T-49-HC	**6PPJ3**
	Stainless Steel	72.0 cu. ft.	—	81½"	78⅛"	29½"	Solid, Swing	6 Casters, 4 Shelf Clips	UL, NSF	True	T-72-HC	**6PPJ5**
Glass Door Merchandiser	White	12.0 cu. ft.	—	62¼"	24¾"	30"	Glass, Swing	4 Shelf Clips	UL, NSF	True	GDM-12-HC-TSL01	**6PPK4**
	White	23.0 cu. ft.	—	78⅝"	27"	29¾"	Glass, Swing	4 Shelf Clips	UL, NSF	True	GDM-23-HC-TSL01	**6PPK5**
	White	49.0 cu. ft.	—	78⅝"	54⅛"	30⅞"	Glass, Swing	4 Shelf Clips	UL, NSF	True	GDM-49-HC-TSL01	**6PPK7**
Undercounter, Stainless Steel, One Door	Stainless Steel	6.3 cu. ft.	—	32⅝"	24"	25⅝"	Solid, Swing	2 Casters, 2 Front Levelers, 8 Shelf Clips	UL, NSF	True	TUC-24-HC	**49T942**
Worktop, Stainless Steel, Two Door	Stainless Steel	16.7 cu. ft.	—	39½"	48¼"	31"	Solid, Swing	4 Casters, 16 Shelf Clips	UL, NSF	True	TWT-48-HC	**49T943**
Select Solid Door Reach-In	Stainless Steel	23.0 cu. ft.	—	74¼"	29¼"	31¾"	Solid, Swing	—	CETLUS, NSF 7	Everest	ESR1	**20CA45**
	White	24.0 cu. ft.	—	79¼"	28½"	33½"	Glass, Swing	Adj. Screw Legs For Leveling	CETLUS, NSF 7, ISO Certified	Everest	EMGR24	**20CA51**
	Stainless Steel	33.0 cu. ft.	—	79¼"	39½"	33½"	Glass, Swing	Adj. Screw Legs For Leveling	CETLUS, NSF 7, ISO Certified	Everest	EMSGR33	**20CA52**
	Stainless Steel	48.0 cu. ft.	—	79¼"	53¼"	33½"	Glass, Swing	Adj. Screw Legs For Leveling	CETLUS, NSF 7, ISO Certified	Everest	EMSGR48	**20CA53**
	Stainless Steel	48.0 cu. ft.	—	74¼"	49¾"	31¾"	Solid, Swing	—	CETLUS, NSF 7	Everest	ESR2	**20CA46**
Refrigerator/Freezers												
Dual Temp, Stainless Steel, Half Door	Stainless Steel	10.0 cu. ft.	6.7 cu. ft.	81½"	27"	29½"	Solid, Swing	4 Casters, 12 Shelf Clips, Keyed Door Lock	UL, NSF	True	T-23DT-HC	**49T938**
Dual Temp, Stainless Steel, Full Door	Stainless Steel	9.7 cu. ft.	9.7 cu. ft.	81½"	54⅛"	29½"	Solid, Swing	4 Casters, 24 Shelf Clips, 2 Keyed Door Locks	UL, NSF	True	T-49DT-HC	**49T939**
Select Solid Door Reach-In	Stainless Steel	23.0 cu. ft.	11.0 cu. ft.	74¼"	29¼"	31¾"	Solid, Swing	—	CETLUS, NSF 7	Everest	ESRFH2	**20CA49**
	Stainless Steel	24.0 cu. ft.	24.0 cu. ft.	74¼"	49¾"	31¾"	Solid, Swing	—	CETLUS, NSF 7	Everest	ESRF2	**20CA50**
Freezers												
Glass Door Merchandiser	White	—	23.0 cu. ft.	78⅝"	27"	29⅞"	Glass, Swing	4 Shelves	—	True	GDM-23F-HC-TSL01	**6PPK6**
	White	—	49.0 cu. ft.	78⅝"	54⅛"	29⅞"	Glass, Swing	8 Shelves	—	True	GDM-49F-HC-TSL01	**6PPK8**
Commercial	Stainless Steel	—	23.0 cu. ft.	78⅜"	27"	29½"	Solid, Swing	Casters, 3 Shelves	—	True	T-23F-HC	**6PPJ2**
	Stainless Steel	—	49.0 cu. ft.	78⅜"	54⅛"	29½"	Solid, Swing	Casters, 6 Shelves	—	True	T-49F-HC	**6PPJ4**
	Stainless Steel	—	72.0 cu. ft.	79⅛"	78⅛"	29½"	Glass, Swing	Casters, (9) Shelves	—	True	T-72F-HC	**6PPJ6**
Select Solid Door Reach-In	Stainless Steel	23 cu. ft.	23.0 cu. ft.	74¼"	29¼"	31¾"	Solid, Swing	3 Epoxy Coated Wire Shelves	—	Everest	ESF1	**20CA47**
	Stainless Steel	48 cu. ft.	48.0 cu. ft.	74¼"	49⅝"	32"	Solid, Swing	—	—	Everest	ESF2	**20CA48**
Bottle Coolers												
Commercial	Black	13.0 cu. ft.	—	33⅜"	64⅝"	30"	Solid, Flip	4 Heavy-Duty Bin Dividers	UL, NSF	True	TD-65-24-HC	**6PPK1**
	Black	13.0 cu. ft.	—	37"	58⅞"	28⅝"	Solid, Swing	2 Right Door Shelf, 4 Shelf Clips	UL, NSF	True	TBB-2-HC	**6PPK2**
Cold Beverage Dispensers												
Direct Draw Beer Dispenser	Stainless Steel/Black	—	—		—		—	SS Insulated Beer Column, 4 Casters, Door Lock	NSF, UL	True	TDD-1-HC	**49T940**
	Stainless Steel/Black	—	—		—		—	2 SS Insulated Beer Column, 2-Way Tapper Manifold, Door Lock	NSF, UL	True	TDD-2-HC	**49T941**
Refrigerated Preparation Tables												
Commercial	Stainless Steel	6.5 cu. ft.	—	42⅞"	27½"	30"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	TSSU-27-08-HC	**6PPJ7**
	Stainless Steel	6.5 cu. ft.	—	39½"	27½"	30"	Solid, Swing	4 Casters, 4 Shelf Clips	UL, NSF	True	TWT-27-HC	**6PPK0**
Worktop, Stainless Steel	Stainless Steel	6.5 cu. ft.	—	37¾"	27½"	35"	Solid, Swing	—	CETLUS, NSF 7, ISO Certified	Everest	EPBR1	**20CA54**
	Stainless Steel	6.5 cu. ft.	—	37¾"	27½"	31½"	Solid, Swing	—	CETLUS, NSF 7, ISO Certified	Everest	EPBNR1	**20CA56**
Worktop, Stainless Steel, Two Door	Stainless Steel	11.8 cu. ft.	—	37¾"	47½"	35"	Solid, Swing	—	CETLUS, NSF 7, ISO Certified	Everest	EPBR2	**20CA55**
	Stainless Steel	11.8 cu. ft.	—	37¾"	47½"	31½"	Solid, Swing	—	CETLUS, NSF 7, ISO Certified	Everest	EPBNR2	**20CA57**
Sandwich/ Salad, Stainless Steel, Two Door	Stainless Steel	16.7 cu. ft.	—	42⅞"	48¼"	31"	Solid, Swing	4 Casters, 16 Shelf Clips, Removable Cutting Board, 12 Clear Polycarbonate NSF Approved Food Pans	UL, NSF	True	TSSU-48-12-HC	**49T944**

Undercounter Refrigerators and Freezers

MARVEL SCIENTIFIC

Designed for healthcare, research, and laboratory use to maintain critical storage temperatures. Feature automatic defrost and digital temperature display.

REFRIGERATORS

Interior-mounted electronic temperature control with remote alarm signal interface.

FREEZERS

No. 52WR11 can hold -20°C temperature.



No. 52WR07



No. 45NW38

Description	Color	Refrigerator Cap.	Freezer Cap.	H	W	D	Mfr. Model	Item No.
Refrigerators								
MicroSentry™ II, Left-Side Hinge, Solid, Swing Door	White	5.3 cu. ft.	—	33¾"	23⅞"	23²⁵⁄₃₂"	MS24RAS4LW1	**52WR06**
MicroSentry™ II, Right-Side Hinge, Glass, Swing Door	White	5.3 cu. ft.	—	33¾"	23⅞"	23²⁵⁄₃₂"	MS24RAG4RW1	**52WR07**
MicroSentry™ II, Compact, Right-Side Hinge, Solid, Swing Door	White	2.8 cu. ft.	—	33¾"	14⅞"	23²⁵⁄₃₂"	MS15RAS4RW1	**52WR08**
Right-Side Hinge, Solid, Swing Door	White	4.6 cu. ft.	—	31⅛"	23⅞"	23⅝"	SA24RAS4RW1	**45NW34**
Left-Side Hinge, Solid, Swing Door	White	4.6 cu. ft.	—	31⅛"	23⅞"	23⅝"	SA24RAS4LW1	**45NW35**
Right-Side Hinge, Solid, Swing Door	Stainless Steel	4.6 cu. ft.	—	31⅛"	23⅞"	23⅝"	SA24RAS5RS2	**45NW38**
Left-Side Hinge, Solid, Swing Door	Stainless Steel	4.6 cu. ft.	—	31⅛"	23⅞"	23⅝"	SA24RAS5LS1	**45NW39**
Freezers								
Left-Side Hinge, Solid, Swing Door	White	—	4.7 cu. ft.	33¾"	23⅞"	23⁴⁷⁄₆₄"	MS24FAS4LW1	**52WR11**
Right-Side Hinge, Solid, Swing Door	White	—	4.7 cu. ft.	33¾"	23⅞"	23⁴⁷⁄₆₄"	MS24FAS4RW1	**52WR10**

Danby MICRO FRIDGE FRIGIDAIRE

Compact Refrigerators/Freezers and Beverage Center

Adjustable shelves. Door has can shelf with bottle rack. Units feature swing doors, 2 wheels and 2 leveling legs, flush back design, reversible door hinge, and humidity control. Nos. 49JY90 and 49JY91 are rated for outdoor use.



No. 6RNP8



No. 6RNP1

Refrigerator Cap.	Freezer Cap.	H	W	D	BLACK Brand	BLACK Mfr. Model	BLACK Item No.	WHITE Brand	WHITE Mfr. Model	WHITE Item No.	STAINLESS STEEL Brand	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Refrigerators													
1.7 cu. ft.	—	20"	17⅝"	20"	Danby	DAR017A2BDD	**6RNP8**	—	—	—	—	—	—
2.3 cu. ft.	—	25"	18⅜"	19¾"	MicroFridge	2.3MF4R	**49JY85**	—	—	—	—	—	—
2.3 cu. ft.	—	25"	18⅜"	17⅝"	Danby	DAR023C1BDB	**49JY88**	—	—	—	Danby	DAR023C1BSLDB	**49JY89**
2.5 cu. ft.	—	27⅛"	17¾"	20⅛"	—	—	—	Danby	DAR026A1WDD	**6RNP9**	—	—	—
2.6 cu. ft.	—	26⅛"	17⅝"	20"	Danby	DAR026A1BDD	**10N668**	—	—	—	—	—	—
4.4 cu. ft.	—	32⅝"	20⅝"	21"	Danby	DAR044A4BDD	**10N669**	Danby	DAR044A4WDD	**6RNR0**	—	—	—
Refrigerator/Freezers													
2.6 cu. ft.	0.3 cu. ft.	32⅝"	17⅝"	18½"	—	—	—	Danby	DCR032A2WDD	**6RNP6**	—	—	—
3.3 cu. ft.	0.3 cu. ft.	33¼"	18⅝"	20⅛"	MicroFridge	3.6MF4RA	**49JY86**	—	—	—	—	—	—
6.4 cu. ft.	2.8 cu. ft.	59¾"	23¾"	26⅜"	—	—	—	—	—	—	Danby	DFF092C1BSLDB	**35PF88**
7.4 cu. ft.	2.7 cu. ft.	59¾"	23¾"	26⅜"	—	—	—	Danby	DFF101B1WDB	**39E722**	Danby	DFF101B1BSLDB	**49JY92**
8.0 cu. ft.	2.3 cu. ft.	58⅝"	23¾"	26¾"	MicroFridge	10.3LMF4R	**49JY87**	—	—	—	—	—	—
Refrigerators with Ice Compartment													
1.6 cu. ft.	—	19¾"	17⅝"	18½"	Danby	DCR016A3BDB	**10N219**	—	—	—	—	—	—
3.2 cu. ft.	—	32⅝"	17⅝"	18½"	Danby	DCR032A2BDD	**10N665**	—	—	—	—	—	—
4.4 cu. ft.	—	32⅝"	20⅝"	20⅞"	Danby	DCR044A2BDD	**10N666**	Danby	DCR044A2WDD	**6RNP7**	—	—	—
Beverage Centers													
3.1 cu. ft.	—	33⅝"	17⅞"	19¾"	Danby	DBC117A1BSSDB-6	**6RNP1**	—	—	—	—	—	—
4.6 cu. ft.	—	34"	21½"	24½"	—	—	—	—	—	—	Frigidaire	FFBC4622QS	**52HZ70**
Outdoor-Rated Refrigerators													
3.3 cu. ft.	—	33⅝"	17⅝"	20⅛"	—	—	—	—	—	—	Danby	DAR033A1BSLDBO	**49JY90**
4.4 cu. ft.	—	33⅝"	20¾"	21⅜"	—	—	—	—	—	—	Danby	DAR044A6BSLDBO	**49JY91**

Danby

Chest and Upright Freezers

White color; adjustable thermostat.



No. 6RNR3

Freezer Cap.	Overall Height	Overall Width	Overall Depth	Door Style	Mfr. Model	Item No.
Chest Freezers						
3.8 cu. ft.	33"	24⅞"	22⅛"	Solid, Flip	DCF038A3WDB	**6RNR3**
5.5 cu. ft.	33"	32⅜"	22⅛"	Solid, Flip	DCF055A2WDB	**6RNR4**
7.2 cu. ft.	33"	39⅞"	22⅛"	Solid, Flip	DCF072A3WDB	**6RNR5**
Upright Freezers						
4.3 cu. ft.	36⅛"	23⅝"	24½"	Solid, Swing	DUFM043A2WDD	**6RNR7**
8.5 cu. ft.	58¾"	23⅜"	25⅝"	Solid, Swing	DUFM085A4WDD	**6RNR8**

Microwave-Refrigerator Combination Units

MICRO FRIDGE

One-plug-to-the-wall combination units have Safe-Plug™ technology to limit electrical draw to 11 to 13A. Include Stay Safe 1st Defense™ sensor to avoid unnecessary fire alarms, 2 USB charging stations, and 3-prong standard outlet for charging laptop, smartphone, or tablet.

Refrigerators—2 full-width wire shelves (except No. 35PF90), door shelves, 2-liter bottle storage, reversible door hinges, and leveling legs.

Microwaves—700W, glass carousel, programmable LED display and clock. All units are UL Listed.



No. 6RNN4

Microwave Cap.	Refrigerator Cap.	Freezer Cap.	H	W	D	BLACK Mfr. Model	BLACK Item No.	WHITE Mfr. Model	WHITE Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Refrigerator and Microwave											
0.7 cu. ft.	2.3 cu. ft.	—	35½"	18⅝"	19¾"	2.3MF4-7D1	**6RNN4**	—	—	—	—
0.7 cu. ft.	2.3 cu. ft.	—	35⅝"	18⅝"	19¾"	—	—	2.3MF4-7D1W	**10N214**	2.3MF4-7D1S	**35PF89**
Refrigerator, Freezer and Microwave											
0.7 cu. ft.	2.2 cu. ft.	0.8 cu. ft.	43¾"	18⅝"	20⅛"	3.0MF4-7D1	**6RNN5**	—	—	—	—
0.7 cu. ft.	2.2 cu. ft.	0.8 cu. ft.	45⅛"	18⅝"	20⅛"	—	—	3.0RMF4H-7D1W	**10N215**	—	—
0.7 cu. ft.	2.2 cu. ft.	0.8 cu. ft.	44"	18⅝"	19⅝"	—	—	—	—	3.1MF7-7D1SX	**35PF90**
0.7 cu. ft.	3.3 cu. ft.	1.3 cu. ft.	56⅛"	18⅝"	22½"	4.8MF4-7D1	**6RNN7**	—	—	—	—
0.7 cu. ft.	3.3 cu. ft.	1.3 cu. ft.	58⅛"	18⅝"	22½"	—	—	4.8RMF4H-7D1W	**10N217**	—	—
0.9 cu. ft.	7.9 cu. ft.	2.4 cu. ft.	71⅛"	23¾"	26¾"	10.3LMF4-9D1X	**10N218**	—	—	—	—
0.9 cu. ft.	7.9 cu. ft.	2.4 cu. ft.	71¼"	23¾"	26¾"	—	—	10.3LMF4-9D1WX	**6RNN8**	—	—
Refrigerator, Ice Compartment and Microwave											
0.7 cu. ft.	3.6 cu. ft.	—	43¾"	18⅝"	20⅛"	3.6MF4A-7D1	**6RNN6**	3.6MF4A-7D1W	**10N216**	3.6MF4A-7D1S	**35PF91**



Top Freezer, White
No. 31EV44



Side-by-Side, Black
No. 406F11



Side-by-Side, Stainless Steel
No. 406F10



French Door, Stainless Steel
No. 31EV17

FRIGIDAIRE

Refrigerator/Freezers

Top Freezer, Right and Reversible Door Hinge— Brightly-lit interior, clear dairy door, and Space Wise® organization system makes it easy to find exactly what you need. Humidity-controlled crisper drawers keep fruits and vegetables fresh. Stainless steel exterior units are resistant to fingerprints, easy to clean, and the interiors are designed to contain spills for easier cleanup.

Side-by-Side, Reversible Door Hinge—Adjustable interior storage gives you over 100 options to organize your refrigerator. Humidity-controlled crispers drawers keep fruits and vegetables fresh and PureSource® water filtration keeps clean, impurity-free water right at your fingertips. A full-width freezer shelf provides more usable space for increased storage. Energy-efficient technology will automatically put unit into energy-saving mode if not opened for 24 hours.

French Door—Adjustable interior storage and flip-up and slide-under shelves make organization easy and let you store tall or large items. Effortless™, easy-glide crisper drawers are humidity controlled and configurable to be side-by-side or stacked. PureAir Ultra® filters keep the air in your unit fresh and PureSource® Ultra ice and water filtration provides pure, clean water and ice.

Total Cap.	Refrigerator Cap.	Freezer Cap.	Defrost	Energy Star Compliant	Amps	H	W	D	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
Top Freezer, Right Door Hinge												
9.9 cu. ft.	7.4 cu. ft.	2.5 cu. ft.	Frost Free	No	15.0	59⅞"	24"	26"	FFTR1022	**31EV43**	**31EV44**	—
12.0 cu. ft.	8.5 cu. ft.	3.0 cu. ft.	Frost Free	No	15.0	59⅞"	24"	28¾"	FFTR1222	**31EV41**	**31EV42**	—
Top Freezer, Reversible Door Hinge												
11.5 cu. ft.	8.4 cu. ft.	3.1 cu. ft.	Frost Free	Yes	15.0	59⅞"	24"	28¾"	FFET1222UV	—	—	**52HZ74**
16.3 cu. ft.	12.6 cu. ft.	3.7 cu. ft.	No	Yes	4.5	65⅝"	28"	29⅝"	FFHT1621	**31EV37**	—	—
16.3 cu. ft.	12.6 cu. ft.	3.7 cu. ft.	No	Yes	6.0	65⅛"	28"	29⅝"	FFHT1621	—	—	**31EV35**
18 cu. ft.	14.1 cu. ft.	3.9 cu. ft.	Automatic	No	15.0	66⅝"	30"	30⅛"	FFTR1814	**33E892**	**33E893**	—
Side by Side, Reversable Door Hinge												
22.6 cu. ft.	14.1 cu. ft.	7.9 cu. ft.	Frost Free	No	8.5	69¾"	33"	32"	FFSS2325	**406F11**	**406F12**	**406F10**
26.0 cu. ft.	16.5 cu. ft.	9.0 cu. ft.	Frost Free	No	8.5	69⅜"	36"	32"	FFSS2625	**406F09**	**406F08**	—
26.0 cu. ft.	16.5 cu. ft.	9.0 cu. ft.	Frost Free	No	8.5	69⅞"	36"	32"	FFSS2625	—	—	**406F07**
26.0 cu. ft.	16.5 cu. ft.	9.5 cu. ft.	No	Yes	8.5	69⅞"	36"	33⅜"	FGSS2635	—	—	**31EV18**
French Door												
26.8 cu. ft.	18.17 cu. ft.	8.7 cu. ft.	Yes	Yes	8.5	69⅞"	36"	33⅜"	FGHB2868	—	—	**31EV16**
27.8 cu. ft.	19.0 cu. ft.	8.8 cu. ft.	No	Yes	8.5	69⅞"	36"	33⅜"	FGHN2866	—	—	**31EV17**



UltraQuiet Plus, Stainless Steel
No. 31EU92



UltraQuiet™ III White
No. 31EU99



UltraQuiet™ III, Black
No. 52HZ51

FRIGIDAIRE

Under Counter Dishwashers

UltraQuiet™ Plus—OrbitClean® spray arms provide an excellent clean with 4 times better water coverage than traditional spray arms. DishSense™ technology automatically adjusts the cycle times based on how much cleaning the dishes require. Large-capacity unit fits up to 14 place settings and upper rack adjusts to fit tall or odd-shaped items. Also feature multiple cycles options including a quick wash and rinse only cycle.

UltraQuiet™ III—Multiple cycle options include a gentle setting for cleaning fine china and crystal and an energy efficient no-heat dry option. Set your dishwasher to start at a specific time with the delay start feature and adjust washing pressure with AquaSurge™ technology. Large, multicompartment silverware basket has room for over 180 items.

Description	D	Depth with Door Open	Min. Height	Max. Height	Amps	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
UltraQuiet Plus									
Gallery 24", Enery Star Rated, Polymer Tub	25"	49 ¼ in	34 ¼ in	35¼"	10	FGHD2465	— —	— —	**31EU92**
UltraQuiet™ III									
18", ADA Compliant, Energy Star Rated, Stainless Steel Tub	23"	46 in	32 ½ in	35¼"	8.5	FFBD1821	**31EV02**	**31EU99**	**31EV01**
24", ADA Compliant, Energy Star Rated, Stainless Steel Tub	23"	46 in	32 ½ in	35"	10	FDB2410H	**31EU98**	— —	**31EU96**
24", Energy Star Rated, Polymer Tub	25"	49 ¼ in	33 ½ in	35"	10	FFBD2412	**52HZ51**	**52HZ50**	— —

FRIGIDAIRE

Black Stainless Steel Appliances

The Smudge-Proof™ black stainless steel collection combines classic style with an easy-to-clean fingerprint-resistant surface.

Refrigerators/Freezers—These models feature a Spacewise® Organization System for organizing your refrigerator in over 100 different ways. Automatic defrost. Include Effortless™ Glide freezer drawers.

Oven Ranges—Freestanding ranges feature even-temp. cooking technology for even baking. Also feature one-touch self-cleaning oven, electronic kitchen timer, and Store-More™ storage drawer.

Dishwasher—DishSense™ technology automatically adjusts the cycle time based on the condition of the dishes. OrbitClean® technology provides four times more water coverage. ENERGY STAR® Certified.


No. 453T04


No. 453T02


No. 453T01


No. 453R99

Total Cap.	Refrigerator Cap.	Freezer Cap.	Refrigerator Style	Energy Star Compliant	Amps	Door Hinge	H	W	D	Mfr. Model	Item No.
Refrigerator/Freezer											
22 3/32"	14.2 cu. ft.	7.9 cu. ft.	Side by Side	No	8.5	Right/Left	69 5/8"	35 3/64"	32"	FFSS2315TD	**453T04**
26 51/64"	18.1 cu. ft.	8.7 cu. ft.	French Door	Yes	8.5	French Door	69 7/8"	36"	33 3/8"	FFHB2750TD	**453T03**

Oven Capacity	No. of Burners	Self Cleaning	H	W	D	Cooking Surface	Cooktop BTU Output	Mfr. Model	Item No.
Oven Ranges									
5.3 cu ft	5	Yes	50 3/64"	31 51/64"	29 33/64"	Ceramic Glass	1200 to 3000	FFEF3054TD	**453T02**
5.3 cu ft	5	Yes	50 3/64"	31 51/64"	29 33/64"	Smoothtop	5000 to 17,000	FFGF3054TD	**453T01**

Installation Type	No. of Wash Cycles	Min. Height	Max. Height	W	D	Depth with Door Open	Item No.
Dishwasher							
Built-In	5	33 ½ in	35 1/4"	24 23/64"	27 1/8"	49 ¼ in	**453R99**

FRIGIDAIRE

Oven Ranges

- For residential or intermittent use

These 30" freestanding ranges feature simple controls and provide consistent, fast, and accurate cooking and baking temperatures.

Nos. 52HZ55 and 52HZ56 have easy-to-use controls to set cooking temperatures. Convenient storage drawer stores cookware.

Nos. 55KF72 and 55KF73 have large capacity ovens allowing extra space to cook more dishes at once.

Nos. 52HZ65, 52HZ66, and 52HZ69 have a 14,000 BTU burner that can boil water faster than traditional range settings.


No. 52HZ55


No. 52HZ57


No. 55KF74


No. 52HZ66

Oven Capacity	No. of Burners	Self Cleaning	H	W	D	Cooking Surface	Cooktop BTU Output	BLACK Item No.	BLACK Mfr. Model	WHITE Item No.	WHITE Mfr. Model	STAINLESS STEEL Item No.	STAINLESS STEEL Mfr. Model
Electric Ranges													
4.2 cu ft	4	Yes	47"	29 7/8"	28 1/2"	Ceramic Glass	1200 to 3000	**52HZ55**	FFEF3054TB	**52HZ56**	FFEF3054TW	—	—
5.3 cu ft	4	Yes	46 9/16"	29 7/8"	25 3/4"	Coil	1500 to 2600	**55KF73**	FFEF3016VB	**55KF72**	FFEF3016VW	—	—
5.3 cu ft	4	Yes	47"	29 7/8"	28 1/2"	Ceramic Glass	1200 to 3000	—	—	—	—	**52HZ57**	FFEF3054TS
Natural Gas Ranges													
5.0 cu ft	4	No	46 9/16"	29 7/8"	25 3/4"	Gas Burner	5000 to 14,000	**55KF74**	FCRG3015AB	—	—	—	—
5.0 cu ft	5	Yes	47"	29 7/8"	29 1/4"	Black Porcelain	5000 to 17,000	—	—	—	—	**52HZ69**	FFGF3054TS
5.0 cu ft	5	Yes	47"	29 7/8"	29 1/4"	Colored -Coordinated Porcelain	5000 to 17,000	**52HZ65**	FFGF3054TB	**52HZ66**	FFGF3054TW	—	—


No. 31EV52

No. 31EV53


No. 31EV54

Range Hoods

FRIGIDAIRE

Feature adjustable speed convertible exhaust system with external or recirculating exhaust. Durable aluminum filters are dishwasher safe. Hoods can be vented horizontally or vertically.

Voltage	Amps	Air Delivery (cfm)	High Speed Sones	H (in.)	W (in.)	D (in.)	Duct Opening	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
120	1.06	220	5.8	5	30	18 5/8	7 in dia	FHWC3025	**31EV54**	**31EV53**	**31EV52**



No. 54HH11



No. 52HZ53

Washers

Electrolux FRIGIDAIRE

- 5 temperature keys
- For residential or intermittent use

No. 54HH11—Large capacity top load model has easy to use electronic controls that let you choose the wash cycle to accommodate a wide range of laundering requirements, from hand wash to heavy duty. You can also select from 5 different soil levels and a variety of cycle options.

No. 52HZ53—Convenient front-loading machine includes a Quick Wash™ setting for a full load of clean laundry in just 20 minutes. Ready Steam™ feature adds steam to the wash cycle to help lift stains. Vibration control system and SilentDesign™ keeps machine running smoothly and quietly. ENERGY STAR® rated.

Washer Capacity (cu.ft.)	H	W	D	Height with Lid Open	No. of Wash Cycles	Amps	Volts	Brand	Mfr. Model	Item No.
Top Load Washer										
4.0 cu ft	44¼"	27"	29"	59 in	14	15	120	Frigidaire	FFTW4120SW	**54HH11**
Front Load Washer										
4.3 cu ft	38"	27"	31½"	—	9	12	120	Electrolux	EFLS527UIW	**52HZ53**



No. 35ME18

Power Cords

FRIGIDAIRE

Round power cords for ranges and dryers are lengths of electrical cable specifically designed to connect appliances to a compatible outlet. These heavy-duty cords have a larger diameter (lower gauge) than general purpose power cords, with a molded plug at one end and bare wire at the other end for wiring to the appliance. Eyelet connector ends. 125/250VAC. UL Listed.

Max. Amps	Cord Length	Wire Size	No. of Cond.	Plug Configuration	Jacket Color	Item No.
40.0	4 ft.	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME18**
40.0	4 ft.	(2) 8 AWG, (2) 6 AWG	4	Right Angle NEMA 14-50P	Black	**35ME19**
50.0	4 ft.	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME21**
50.0	4 ft.	(2) 8 AWG, (2) 6 AWG	4	Right Angle NEMA 14-50P	Black	**35ME22**
50.0	6 ft.	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME20**
50.0	6 ft.	(2) 8 AWG, (2) 6 AWG	4	Right Angle NEMA 14-50P	Black	**35ME23**



No. 54HH12



No. 52HZ54

Electric Dryers

FRIGIDAIRE Electrolux

- For residential or intermittent use
- No. 52HZ54 is UL Listed

Large-capacity units dry even extra-large loads quickly and efficiently. Include wrinkle-release setting for neat, wrinkle-free clothes. No. 52HZ54 has 5 temperature settings, No. 54HH12 has 10 temperature settings.

H	W	D	Depth with Door Open	Dryer Cycle Settings	Temp. Settings	Amps	Voltage	Brand	Mfr. Model	Item No.
4.0 cu ft										
42⅞"	27"	30"	49 in	10	10 Temp. Keys	24	240	Frigidaire	FFRE4120SW	**54HH12**
8.0 cu ft										
38"	27"	31½"	50 in	8	5 Temp. Keys	30	240	Electrolux	EFME527UIW	**52HZ54**



No. 54HH13



No. 52HZ52

FRIGIDAIRE
Electrolux

Gas Dryers

- 120V
- For residential or intermittent use
- UL Listed, except No. 54HH13

Large-capacity dryers allow you to dry more clothes in less time.

No. 54HH13—Features a variety of dry cycles to meet most of your drying needs such as active wear, bulky, and sanitize. Dry clothes fast with the Quick Dry cycle, while the Anti-Wrinkle function helps reduce wrinkles.

- 15A

No. 52HZ52—Quick-dry option and moisture sensor technology dries even the largest loads in a quick and efficient cycle. Steam can be added to any cycle to help prevent clothes from wrinkling.

- 9A

H	W	D	Depth with Door Open	Dryer Cycle Settings	Temp. Settings	Brand	Mfr. Model	Item No.
4.0 cu ft								
42⅞"	27"	30"	49 in	10	10 Temp. Keys	Frigidaire	FFRG4120SW	**54HH13**
8.0 cu ft								
38"	27"	31½"	50 in	8	5 Temp. Keys	Electrolux	EFMG527UIW	**52HZ52**



No. 31EV12



No. 31EV13

FRIGIDAIRE

Laundry Centers

- Dryer capacity: 5.5 cu. ft.
- Washer capacity: 4.0 cu. ft.
- For residential or intermittent use
- ETL Listed
- ENERGY STAR® Rated

Space-saving washer/dryer combination units provide a fast, gentle wash. Vibration control system allows balanced, smooth operation.

H	W	D	Depth with Door Open	Dryer Cycle Settings	Wash Cycle Settings	Amps	Voltage	Mfr. Model	Item No.
Electric									
76"	27"	31½"	47 ½ in	3	8	22	240	FLCE7522AW	**31EV12**
Gas									
76"	27"	31½"	47 ½ in	3	8	13	140	FLCG7522AW	**31EV13**



Lock Stitch Hem Bedspread-Bone



Herringbone Weave Blanket



Hypo-Allergenic Plush-Nylon Blanket



Quilted Blanket



Anti-Pill Fleece Blanket



Leno Weave Blanket

martex Millennium
vellux
EcoPure
R&R Textile Mills Inc.

Bedspreads and Blankets

Long lasting 100% cotton leno weave thermal blankets provide natural warmth and softness. Blankets are preshrunk and have colorfast dye.

Lightweight, soft fleece blankets have an anti-pill finish for long term use. Made of 100% spun polyester.

Description	Fabric	Size	W	L	Blanket Weight	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Bedspread									
Lock Stitch Hem	Poly/ Cotton w/100% Polyester Fill	Twin	71"	102"	—	Bone, Forest Green, Slate	Martex	**H2168**	1
		Twin	81"	110"	—	Bone, Forest Green, Slate, Khaki, Navy, Chianti	Martex	**H2169**	1
		Full	96"	116"	—		Martex	**H2165**	1
		King	120"	118"	—		Martex	**H2166**	1
		Queen	100"	118"	—		Martex	**H2167**	1
Blanket									
Herringbone Weave	Woven - 100% Cotton	Twin	66"	90"	2.8 lbs.	Natural	Grand Patrician	**5ZXX4**	4
		Twin	66"	90"	—	White	Grand Patrician	**15V630**	4
		Full	80"	90"	3.3 lbs.	Natural	Grand Patrician	**5ZXX5**	4
		Full	80"	90"	—	White	Grand Patrician	**15V631**	4
		Queen	90"	90"	3.8 lbs.	Natural	Grand Patrician	**5ZXX6**	2
		Queen	90"	90"	—	White	Grand Patrician	**15V632**	2
		King	108"	90"	4.5 lbs.	Natural	Grand Patrician	**5ZXX7**	2
		King	108"	90"	—	White	Grand Patrician	**15V633**	2
Hypo-Allergenic	Flocked Nylon	Twin	66"	90"	2.03 lb.	Pale Jade, Bluebell	Vellux	**D9814**	4
		Twin	66"	90"	2.2 lbs.	Ivory, Tan, Cranberry	Vellux	**D9814**	4
		Full	80"	90"	2.51 lb.	Pale Jade, Bluebell	Vellux	**D9815**	4
		Full	80"	90"	2.7 lbs.	Ivory, Tan, Cranberry	Vellux	**D9815**	4
		Queen	90"	90"	2.82 lb.	Pale Jade, Bluebell	Vellux	**D9816**	4
		Queen	90"	90"	3 lbs.	Ivory, Tan, Cranberry	Vellux	**D9816**	4
		King	108"	90"	3.40 lb.	Pale Jade, Bluebell	Vellux	**D9813**	4
		King	108"	90"	3.7 lbs.	Ivory, Tan, Cranberry	Vellux	**D9813**	4
		Twin Double	72"	90"	2.24 lb.	Pale Jade	Vellux	**30AC84**	4
		Twin Double	72"	90"	2.24 lb.	Bluebell	Vellux	**30AC89**	4
Filled Blanket									
Quilted	Reuse-Recycled Cotton Cover/ Polyfill	Twin	66"	90"	14 oz.	White	EcoPure	**5ZXJ0**	4
		Full/ Queen	90"	90"	18 oz.		EcoPure	**5ZXJ1**	4
		King	108"	90"	23 oz.		EcoPure	**5ZXJ2**	2
Fleece Blanket									
Anti-Pill	Fleece - 100% Polyester	Twin	66"	90"	9 oz./ Sq. Yd	Beige	R & R Textile	**5TAD1**	1
		Full	80"	90"	9 oz./ Sq. Yd		R & R Textile	**5TAD2**	1
		Queen	90"	90"	9 oz./ Sq. Yd		R & R Textile	**5TAD3**	1
		King	108"	90"	9 oz./ Sq. Yd		R & R Textile	**5TAD4**	1
Microfiber		Full	80"	90"	2.9 lbs.	Ivory, Khaki	Martex	**D9498**	4
		Queen	90"	90"	3.2 lbs.		Martex	**D9499**	4
		King	108"	90"	3.9 lbs.		Martex	**D9497**	4
Thermal Blanket									
Leno Weave	Woven - 100% Cotton	Twin	66"	90"	2.5 lbs.	White	R & R Textile	**5TAC6**	1
Snag Free		Twin	66"	90"	3 lbs.		R & R Textile	**36N046**	1



Gold Choice Fiber Fill-Queen



Microvent Soft Fiber Fill-Standard



Comforel Fiber Fill-Standard

martex Millennium
R&R Textile Mills Inc.

Pillows

SURE CHECK

Self-deodorizing, nonallergenic, and flame-retardant pillows have thousands of microscopic vents covering the entire pillow. These vents help destroy bacteria by allowing fresh air to flow through the pillow.

GOLD CHOICE

The poly-cotton ticking with extra hollow siliconized fiber fill of these pillows provides ideal comfort and support.

MICROVENT SOFT

Durable without sacrificing comfort, the microscopic air vents as well as an antibacterial, antistatic, flame-retardant, and fluidproof finish make these pillows an ideal choice for healthcare facilities.

MICRO DENIER

Soft micro fiber filling provides a down-like feel using blown polyester. Pillows have a 100% cotton T230 ticking with piped edges.

MARTEX® BRENTWOOD

Cluster fiber pillows have a down-like softness and are easy care. Soft and comfortable microcluster polyester fiber fill with polyester/cotton cover.

COMFOREL®

The 100% cotton T230 ticking with piped edges and cluster fiber fill provide both comfort and support. The hypoallergenic and antimicrobial protection inhibits a variety of odor causing molds, bacterias, and funguses. Washable.

ECOPURE®

Soft, warm, and comfortable fiber fill reprocessed as a recycled, environmentally friendly product with cotton cover.

Description	Fill Weight	Thread Count	W	L	Brand	Item No.	Pkg. Qty.
Sure Check Polyester Fill Type							
Standard Polyester Pillow	18 oz.	—	20"	26"	Martex	**15V654**	12
Gold Choice Fill Type							
Standard Poly Cotton Pillow	22 oz.	Window Pane Ticking	21"	27"	R & R Textile	**5NXC2**	1
Queen Poly Cotton Pillow	27 oz.	Window Pane Ticking	21"	30"	R & R Textile	**5NXC3**	1
King Poly Cotton Pillow	33 oz.	Window Pane Ticking	21"	37"	R & R Textile	**5NXC4**	1
Microvent Soft Fiber Fill Type							
Standard Vinyl Pillow	18 oz.	—	21"	27"	R & R Textile	**5NXC5**	1
Small Standard Vinyl Pillow	16 oz.	—	18"	25"	R & R Textile	**5TAA1**	1
Micro Denier Fiber Fill Type							
Standard 100% Cotton Pillow	24 oz.	T230	21"	27"	R & R Textile	**5NXA9**	1
Queen 100% Cotton Pillow	29 oz.	T230	21"	30"	R & R Textile	**5NXC0**	1
King 100% Cotton Pillow	33 oz.	T230	21"	37"	R & R Textile	**5NXC1**	1
Martex Brentwood Microcluster Fill Type							
Standard Recycled Polyfiber Pillow	22 oz.	152	20"	26"	Martex	**5ZXJ6**	12
Queen Recycled Polyfiber Pillow	27 oz.	152	20"	30"	Martex	**5ZXJ8**	8
King Recycled Polyfiber Pillow	34 oz.	152	20"	36"	Martex	**5ZXJ9**	6
Jumbo Recycled Polyfiber Pillow	25 oz.	152	20"	28"	Martex	**5ZXJ7**	10
Comforel Fill Type							
Standard 100% Cotton Pillow	22 oz.	T230	21"	27"	R & R Textile	**5NXA6**	1
Queen 100% Cotton Pillow	27 oz.	T230	21"	30"	R & R Textile	**5NXA7**	1
King 100% Cotton Pillow	33 oz.	T230	21"	37"	R & R Textile	**5NXA8**	1
EcoPure Recycled Polyfiber Fill Type							
Jumbo Recycled Polyfiber Pillow	21 oz.	240	20"	28"	Martex	**5ZXH5**	10



R&R Textile Mills Inc.

T130 Bedsheets and Pillowcases

- Pkg. of 12

60% Cotton, 40% Polyester blend for durability and comfort. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. No. 36N043 has 7" pocket.

W	L	WHITE Item No.
Fitted Sheets		
Twin		
36"	80"	**36N043**
Flat Sheets		
Twin XXL		
66"	115"	**36N042**
Pillowcases		
Standard		
42"	34"	**36N041**



Hotel Basics™

T180 and T200 Sheets and Pillowcases

- Pkg. of 12

Sheets and pillowcases are made from high-quality cotton/polyester fabric. Combine comfort and softness with durability. No. 5NWU0 has 9" pocket and fits mattress depth of 7" to 9" and full, queen and king have 12" pockets that fit depth of 10" to 12". No. 5NWU7 has a 12" pocket.

W	L	Thread Count	WHITE Item No.
Fitted Sheets			
Twin			
39"	76"	T180	**5NWU0**
39"	80"	T200	**5NWU7**
Full			
54"	80"	T200	**5NWU8**
Queen			
60"	80"	T200	**5NWU9**
King			
78"	80"	T200	**5NWX0**
Flat Sheets			
Twin XXL			
66"	115"	T180	**5NWT9**
66"	115"	T200	**5NWU3**
Twin			
66"	104"	T180	**36N044**
Full XXL			
81"	115"	T200	**5NWU4**
Queen XL			
90"	115"	T200	**5NWU5**
King XL			
108"	115"	T200	**5NWU6**
Pillowcases			
Standard			
42"	34"	T180	**5NWT8**
42"	36"	T200	**5NWU1**
King			
42"	46"	T200	**5NWU2**



White Stripe



Bone

martex Millennium

T250 Bedsheets and Pillowcases

60/40 blend offers the softness of cotton and the strength of polyester. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. 12" pockets fit mattresses 10" to 14" deep, and 15" pockets fit mattress depths from 13" to 18". 250 thread count. More colors available, see Grainger.com®.

W	L	Pocket Size	Pkg. Qty.	WHITE Item No.	BONE Item No.	WHITE STRIPE Item No.
Fitted Sheets						
Twin XL						
39"	80"	12"	6	**52JP35**	**52JP52**	—
Full XL						
54"	80"	0	6	**52JP22**	—	—
54"	80"	12"	6	**52JP36**	**52JP53**	—
54"	80"	15"	6	**52JP39**	**52JP56**	—
Queen						
60"	80"	0	6	—	—	**52JP23**
60"	80"	12"	6	**52JP37**	**52JP54**	—
60"	80"	15"	6	**52JP40**	**52JP57**	—
King						
78"	80"	0	6	—	—	**52JP24**
78"	80"	12"	6	**52JP38**	**52JP55**	—
78"	80"	15"	6	**52JP41**	**52JP58**	—
Flat sheets						
Twin XL						
69"	115"	0	6	**52JP28**	**52JP45**	—
Full XL						
87"	115"	0	6	**52JP19**	—	—

W	L	Pocket Size	Pkg. Qty.	WHITE Item No.	BONE Item No.	WHITE STRIPE Item No.
XL King						
111"	115"	0	6	**52JP33**	**52JP50**	—
113"	115"	0	6	—	—	**52JP21**
XL Queen						
93"	115"	0	6	**52JP31**	**52JP48**	—
95"	115"	0	6	—	—	**52JP20**
XXL Full						
84"	120	0	6	**52JP30**	**52JP47**	—
XXL King						
111"	120	0	6	**52JP34**	**52JP51**	—
XXL Queen						
93"	120	0	6	**52JP32**	**52JP49**	—
Pillowcases						
Standard						
44"	36"	0	12	**52JP25**	**52JP42**	**52JP17**
Queen						
44"	40"	0	12	**52JP26**	**52JP43**	—
King						
44"	46"	0	12	**52JP27**	**52JP44**	**52JP18**
Pillow Shams						
Standard						
20"	26"	0	24	**52JN69**	—	**52JN75**



martex Millennium

T200 Bedsheets and Pillowcases

60/40 blend offers the softness of cotton with the strength of polyester. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. Twin have 9" pocket and fits mattress depth of 7" to 11" and full, queen and king have 12" pockets that fit depth of 10" to 14". 200 thread count.

W	L	WHITE Item No.
Fitted Sheets - Pkg. of 6		
Twin		
39"	75"	**52JN91**
Twin XL		
39"	80"	**52JN96**
Full XL		
54"	80"	**52JN97**
Queen		
60"	80"	**52JN98**
King		
78"	80"	**52JN99**
Flat sheets - Pkg. of 6		
Twin XL		
69"	115"	**52JN82**
Full XL		
84"	115"	**52JN84**
Queen XL		
93"	115"	**52JN86**
King XL		
111"	115"	**52JN89**
Pillowcases - Pkg. of 12		
Standard		
44"	35"	**52JN78**
Queen		
44"	39"	**52JN79**
King		
44"	45"	**52JN80**

No. 5ZXH6

martex Millennium

R&R Textile Mills Inc.

WESTPOINT HOME

Mattress Covers and Pillow Protectors



Anchor band mattress covers are made from 100% nonwoven polyester felt. Quilted mattress covers have a 5" onion pattern with a 5 oz. fill per sq. yd. The 12" cotton/poly fitted skirt fits most hospitality beds. Quilted mattress pads feature soft and comfortable fiberfill. Fiber provides down-like comfort and warmth. For mattresses up to 12"D.

W	Pkg. Qty.	Brand	75"L Item No.	80"L Item No.
Mattress Pads with Anchor Band				
39"	12	Martex	**15V645**	—
54"	12	Martex	**15V647**	**15V648**
Mattress Covers with Anchor Band				
36"	1	R & R Textile	—	**5TAA9**
39"	1	R & R Textile	—	**5TAC1**
54"	1	R & R Textile	—	**5TAC3**
60"	1	R & R Textile	—	**5TAC4**
78"	1	R & R Textile	—	**5TAC5**
Mattress Pads, Fitted Style				
54"	6	Martex	**15V641**	**15V642**
39"	6	Martex	**15V639**	**15V640**
60"	6	Martex	—	**15V643**
78"	6	Martex	—	**15V644**
Mattress Pads with Anchor Band				
39"	6	Martex	—	**15V646**
60"	6	Martex	—	**15V649**
78"	6	Martex	—	**15V650**
Quilteded Mattress Cover, 5 oz., Elastic Fitted				
36"	1	R & R Textile	—	**5TAA2**
39	1	R & R Textile	—	**5TAA4**
54"	1	R & R Textile	—	**5TAA6**
60"	1	R & R Textile	—	**5TAA7**
78"	1	R & R Textile	—	**5TAA8**
Quilted Mattress Pads				
39"	4	Martex	**5ZXH6**	—
54"	4	Martex	**5ZXH7**	—
60"	2	Martex	—	**5ZXH8**
78"	2	Martex	—	**5ZXH9**
Quilted Waterproof Mattress Pads				
39"	2	Westpoint Home	**30AC79**	—
54"	2	Westpoint Home	**30AC80**	—
60"	2	Westpoint Home	—	**30AC81**
78"	2	Westpoint Home	—	**30AC82**

Size	L	W	Brand	Item No.	Pkg. Qty.
Pillowcases - Zipper Corner, 50% Polyester; 50% Cotton					
Standard	25"	20"	R & R Textile	**36N048**	12
Queen	30"	21"	R & R Textile	**36N049**	12
King	37"	21"	R & R Textile	**36N050**	12



Nio. 46E457



No. 46E485

PROTECT·A·BED
Every Mattress Needs Protection

Bedding Encasement Systems

- Machine washable

Feature the innovative Miracle Membrane® to keep water and stains out while the mattress protector remains breathable and comfortable.

AllerZip® Smooth—6-sided waterproof protection has a 3-sided zipper system with Secure Seal® to provide barrier against allergens, dust mites, human contamination, pet dander, pollen and mold. Certified to be asthma and allergy friendly.

- **Protect against bed bug entry, exit, and bites**

BugLock® Plus—Provide 6-sided bed bug entry/exit prevention and is bite-proof and waterproof on the top surface. 3-sided zipper system with Secure Seal® to protect against bed bugs, dust mites, human contamination, allergens, and other irritants.

Waterproof Quilted—Waterproof top surface protects against bacteria, dust mites, human contamination, allergens and other irritants.

Basic—Ultra-thin fabric has 4-way stretch barrier that allows for flexibility. Waterproof top surface and protection against bacteria, human contamination, dust mites, allergens, and other irritants.

Premium—Waterproof top surface and durable ultra-thin fabric has 4-way stretch barrier that can be laundered over 200 times. Guards against bacteria, human contamination, dust mites, allergens, and other irritants.

Box Spring Encasements—Extend an impenetrable barrier that protects against allergens, dust mites, and bed bug entry and escape.

- **Protect against bed bugs**

Size	Pocket Size	L	W	Item No.		Pkg. Qty.
Mattress Encasements						
AllerZip Smooth - 100% Polyester						
Twin	6"	75"	38"	**46E413**		10
Twin	9"	75"	38"	**46E414**		10
Twin XL	6"	80"	38"	**46E415**		10
Twin XL	9"	80"	38"	**46E416**		10
Full	6"	75"	54"	**46E417**		10
Sofa Bed/Full	6"	75"	54"	**46E418**		10
Full	9"	75"	54"	**46E419**		10
Full	13"	75"	54"	**46E420**		10
Full XL	6"	80"	54"	**46E421**		10
Full XL	9"	80"	54"	**46E422**		10
Full XL	13"	80"	54"	**46E423**		10
Queen	6"	80"	60"	**46E424**		8
Sofa Bed/ Queen	6"	72"	60"	**46E425**		10
Queen	9"	80"	60"	**46E426**		8
Queen	13"	80"	60"	**46E427**		8
Hotel King	6"	80"	72"	**46E428**		8
Hotel King	9"	80"	72"	**46E429**		8
Hotel King	13"	80"	72"	**46E430**		8
King	6"	80"	76"	**46E431**		8
King	9"	80"	76"	**46E432**		8
King	13"	84"	76"	**46E433**		8
Cal. King	6"	84"	72"	**46E434**		6
Cal. King	9"	84"	72"	**46E435**		6
Cal. King	13"	84"	72"	**46E436**		6
Split Cal. King	6"	84"	36"	**46E437**		10
BugLock Plus - Jersey Knit						
Full	8"	75"	54"	**46E457**		10
Full XL	8"	80"	54"	**46E458**		10
Queen	10"	80"	60"	**46E459**		10
Twin	10"	75"	38"	**60GV85**		10
Twin	10"	80"	38"	**60GV86**		10
King	12"	80"	76"	**60GV87**		10
King	12"	84"	72"	**60GV89**		10

** For King size box springs, use 2 encasements.*

Size	Pocket Size	L	W	Item No.		Pkg. Qty.
Mattress Pads						
Waterproof Quilted						
Twin	22"	75"	38"	**46E479**		8
Twin XL	22"	80"	38"	**46E480**		8
Full	22"	75"	54"	**46E481**		6
Queen	22"	80"	60"	**46E482**		6
King	22"	80"	76"	**46E483**		4
Cal. King	22"	84"	72"	**46E484**		4
Mattress Protectors						
Basic - 100% Polyester						
Twin	14"	75"	38"	**46E439**		14
Twin XL	14"	80"	38"	**46E440**		14
Full	14"	75"	54"	**46E441**		12
Full XL	14"	80"	54"	**46E442**		12
Queen	18"	80"	60"	**46E443**		12
King	18"	80"	76"	**46E444**		10
Cal. King	18"	84"	72"	**46E445**		10
Premium - Terrycloth						
Crib	6"	52"	28"	**480V73**		6
Twin	14"	75"	38"	**480V74**		10
Queen	18"	80"	60"	**480V76**		6
King	18"	80"	76"	**480V77**		4
Cal. King	18"	84"	72"	**480V78**		4
Twin XL	14"	75"	38"	**480V79**		10
Full XL	14"	80"	38"	**480V80**		10
Full	22"	75"	54"	**46E473**		6
Box Spring Encasements						
Cotton/Polyester						
Hotel King	6"	80"	36"	**56HH72**	*	12
Box Spring Plus Encasements						
Jersey Knit						
Cal. King	9"	84"	36"	**40JF66**	*	12
Hotel King	9"	80"	36"	**40JF72**	*	12
Pillow Encasements						
AllerZip Smooth - 100% Polyester						
Standard	—	27"	21"	**46E485**		6
Queen	—	31"	21"	**46E486**		6
King	—	37"	21"	**46E487**		6



PROTECT·A·BED
Every Mattress Needs Protection

Student Bedding Protection Kit

Protect against bed bugs, dust mites, and allergens. 100% polyester kit includes an AllerZip® mattress encasement, a basic mattress protector, and one standard size pillow protector.

Size	Item No.	Pkg. Qty.
Twin XL	**33RM93**	1

No. 12H838



LOCK-UP®

Bedding Encasements

Lock-Up® pillow, mattress, and box spring encasements trap any existing bed bugs and keep invading bugs out. Pillow and mattress covers also protect against allergens and dust mites, and have soft, breathable fabric for comfortable, sound sleep. Pillow cover is water-resistant. Premium mattress covers have a waterproof lining and feature a double-zipper enclosure for added protection. Standard mattress covers have a waterproof top and also feature a double-zipper enclosure. Box spring covers are durable stretch knit with double-knit corners for snag protection.

Size	Fabric	L	W	Item No.	
Premium					
Twin	Terrycloth	75"	39"	**12H838**	
TwinXL	Terrycloth	80"	39"	**12H839**	
Full	Terrycloth	75"	54"	**12H840**	
Queen	Terrycloth	80"	60"	**12H841**	
King	Terrycloth	80"	78"	**12H842**	
Standard					
Twin	Stretch Knit	75"	39"	**38F610**	
TwinXL	Stretch Knit	80"	39"	**38F611**	
Full	Stretch Knit	75"	54"	**38F612**	
Queen	Stretch Knit	80"	60"	**38F613**	
King	Stretch Knit	80"	76"	**38F614**	
Box Spring					
Twin	Stretch Knit	75"	39"	**12H834**	
TwinXL	Stretch Knit	80"	39"	**12H835**	*
Full	Stretch Knit	75"	54"	**12H836**	
Queen	Stretch Knit	80"	60"	**12H837**	
Pillowcase					
Standard	Velvet	26"	20"	**12H843**	

** For King size, use 2 TwinXL encasements.*

Scan. Order. Done.
Details on page A1.



Cardiff Bed Sets

- Include both mattress and foundation
- Foundations have a no-skid top
- Sturdy handles for easy housekeeping

Mattress is 2-sided for extended product life and has 1" super-soft gel poly foam surface and a 1½" comfort layer to promote cool, restful sleep.

Sealy global hospitality™

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Plush					
Twin	38"	75"	11.5"	9"	**39CP49**
Twin XL	38"	80"	11.5"	9"	**39CP50**
Full	54"	75"	11.5"	9"	**39CP51**
Full XL	54"	80"	11.5"	9"	**39CP52**
Queen	60"	80"	11.5"	9"	**39CP53**
King	72"	80"	11.5"	9"	**39CP56**
King	72"	84"	11.5"	9"	**39CP55**
King	76"	80"	11.5"	9"	**39CP54**

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Firm					
Twin	38"	75"	11.5"	9"	**39CP57**
Twin XL	38"	80"	11.5"	9"	**39CP58**
Full	54"	75"	11.5"	9"	**39CP59**
Full XL	54"	80"	11.5"	9"	**39CP60**
Queen	60"	80"	11.5"	9"	**39CP61**
King	72"	80"	11.5"	9"	**39CP64**
King	72"	84"	11.5"	9"	**39CP63**
King	76"	80"	11.5"	9"	**39CP62**



Claybrook Bed Sets

- Include both mattress and foundation
- Foundations have a no-skid top
- Sturdy handles for easy housekeeping

1-sided mattress has 1" of super-soft gel poly on its surface and 3" of a gel poly comfort layer.

Sealy global hospitality™

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Plush					
Twin	38"	75"	11"	9"	**39CP65**
Twin XL	38"	80"	11"	9"	**39CP66**
Full	54"	75"	11"	9"	**39CP67**
Full XL	54"	80"	11"	9"	**39CP68**
Queen	60"	80"	11"	9"	**39CP69**
King	72"	80"	11"	9"	**39CP72**
King	72"	84"	11"	9"	**39CP71**
King	76"	80"	11"	9"	**39CP70**

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Firm					
Twin	38"	75"	11"	9"	**39CP73**
Twin XL	38"	80"	11"	9"	**39CP74**
Full	54"	75"	11"	9"	**39CP75**
Full XL	54"	80"	11"	9"	**39CP76**
Queen	60"	80"	11"	9"	**39CP77**
King	72"	80"	11"	9"	**39CP80**
King	72"	84"	11"	9"	**39CP79**
King	76"	80"	11"	9"	**39CP78**

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Plush Euro Top					
Twin	38"	75"	11.6"	9"	**39CP81**
Twin XL	38"	80"	11.6"	9"	**39CP82**
Full	54"	75"	11.6"	9"	**39CP83**
Full XL	54"	80"	11.6"	9"	**39CP84**
Queen	60"	80"	11.6"	9"	**39CP85**
King	72"	80"	11.6"	9"	**39CP88**
King	72"	84"	11.6"	9"	**39CP87**
King	76"	80"	11.6"	9"	**39CP86**



Sayer Bed Sets

- Include both mattress and foundation
- Foundations have a no-skid top
- Sturdy handles for easy housekeeping

1-sided mattress is built for superior sleeping posture and back support. Features 3 separate layers made of gel poly foam: surface, comfort layer, and CoreSupport Center.

Sealy global hospitality™

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Plush					
Twin	38"	75"	12.6"	9"	**39CP89**
Twin XL	38"	80"	12.6"	9"	**39CP90**
Full	54"	75"	12.6"	9"	**39CP91**
Full XL	54"	80"	12.6"	9"	**39CP92**
Queen	60"	80"	12.6"	9"	**39CP93**
King	72"	80"	12.6"	9"	**39CP96**
King	72"	84"	12.6"	9"	**39CP95**
King	76"	80"	12.6"	9"	**39CP94**

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Plush Pillow Top					
Twin	38"	75"	13"	9"	**39CR06**
Twin XL	38"	80"	13"	9"	**39CR07**
Full	54"	75"	13"	9"	**39CR08**
Full XL	54"	80"	13"	9"	**39CR09**
Queen	60"	80"	13"	9"	**39CR10**
King	72"	80"	13"	9"	**39CR13**
King	72"	84"	13"	9"	**39CR12**
King	76"	80"	13"	9"	**39CR11**

Size	Overall Width	Overall Length	Mattress Height	Box Spring Height	Item No.
Firm					
Twin	38"	75"	12.6"	9"	**39CP97**
Twin XL	38"	80"	12.6"	9"	**39CP98**
Full	54"	75"	12.6"	9"	**39CP99**
Full XL	54"	80"	12.6"	9"	**39CR01**
Queen	60"	80"	12.6"	9"	**39CR02**
King	72"	80"	12.6"	9"	**39CR05**
King	72"	84"	12.6"	9"	**39CR04**
King	76"	80"	12.6"	9"	**39CR03**

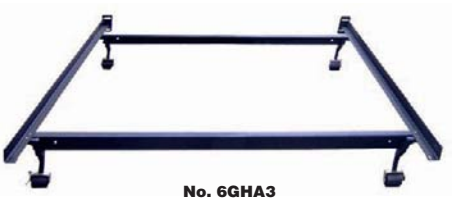


WEHSCO BY MANTUA MFG. CO.

Bed Frames

Wedge-lock leg design makes the frame stronger as weight is applied. Recessed legs add extra foot clearance. The 1¾" high-carbon ribbed steel side rails easily support mattress and box spring. Include rug roller wheels.

Size	L	W	H	Item No.
Queen	71"	60"	7¼"	**31XT57**
California King	71"	72"	7¼"	**31XT58**
King	71"	76"	7¼"	**31XT59**



MANTUA MFG. CO.

Bed Frames

High-carbon 1¾" recycled rail steel frames have extra length to provide greater stability. Level design construction provides proper alignment of box spring, reducing noise. Self-leveling, recessed legs with wedge-notch assembly. Twin size has 4 legs; all other sizes have 6 legs with a center support.

Fits	L	W	H	Item No.
With Rug Saver Rollers				
Twin	71"	38"	7½"	**6GHA3**
Full	71"	53"	7½"	**6GHA4**
Queen	76"	60"	7½"	**6GHA5**
Standard King	76"	76"	7½"	**6GHA6**
California King	76"	72"	7½"	**6GHA7**
With Steel Stem Guides				
Twin	71"	38"	7½"	**6GHA8**
Full	71"	53"	7½"	**6GHA9**
Queen	76"	60"	7½"	**6GHC0**
Standard King	76"	76"	7½"	**6GHC1**
California King	76"	72"	7½"	**6GHC2**

Find even MORE on Grainger.com®

Inflatable Beds

Coleman

Feature extra-durable, puncture-resistant construction and turbo-speed built-in pump (except Nos. 469C25, 469C26, and 469C27) that provides fast and easy inflation. Provide automatic shutoff when bed is fully inflated. Exclusive oversized rapid release valve deflates bed in seconds. Reinforced bed construction keeps air distributed evenly all night. Roll up and store conveniently in oversized carrying bag. Include machine washable mattress cover.

Replacement Pumps—For use with Boston and Coleman double lock and pinch valves.



No. 35ME95



No. 35ME93



No. 35ME96

Description	Weight Capacity	Includes	L	W	H	Item No.
Quickbed®						
Twin	300 lb.	Antimicrobial Sleep Surface, Textured Sides	73"	38"	8"	**469C25**
Twin	300 lb.	Zippered Carry Bag	74"	39"	9½"	**35ME95**
Full	600 lb.	Antimicrobial Sleep Surface, Textured Sides	73"	53"	8"	**469C27**
Queen	600 lb.	Antimicrobial Sleep Surface, Textured Sides	78"	58"	8"	**469C26**
Queen	600 lb.	Built-In 120V Pump, Zippered Carry Bag	78"	58"	9½"	**35ME94**
Supportrest™						
Queen	600 lb.	120V Pump	78"	60"	18"	**35ME88**
Queen	600 lb.	Built-In 120V Pump, Zippered Carry Bag	78"	60"	18"	**35ME93**
Queen	600 lb.	Built-In 120V Pump, Zippered Carry Bag	78"	60"	19"	**35ME92**

Includes	Power Requirements	Item No.
Replacement Pumps		
Adapters for Boston, Coleman Double Lock and Pinch Valves, 120V Charger	120VAC	**35ME96**
Adapters for Boston, Coleman Double Lock and Pinch Valves, 6 ft. Power Cord	120VAC	**35ME97**
Adapters for Boston, Coleman Double Lock and Pinch Valves, 9 ft. Power Cord	12VDC	**35ME98**
Adapters for Boston, Coleman Double Lock and Pinch Valves	(4) D Cell Batteries	**35ME99**

Casco MANUFACTURING SOLUTIONS — SUPPLIER DIVERSITY®

Sealed Institutional Mattresses

Feature a fully-sealed, antimicrobial, and hypoallergenic cover and strong RF welds to keep out fluids and other contaminants. Cover is vented to help prevent moisture buildup. Mattresses with clear vinyl cover hinder contraband concealment. Ideal for the specific needs of prisons, shelters, and healthcare.



No. 33RU91



No. 25UM01

Maximum User Weight	Core Material	L	W	H	Color	Fire Barrier Protection Yes Item No.	Fire Barrier Protection No Item No.
C-Matt Bariatric 500 Mattress							
500 lb.	Foam	80"	54"	7"	Navy/Gray	**33RV29**	**33RV28**
		84"	48"	7"		**33RV27**	**33RV26**
		84"	54"	7"		**33RV31**	—
C-Matt Bariatric 900 Mattress							
900 lb.	Foam	80"	54"	7"	Navy/Gray	**33RV45**	**33RV44**
		84"	48"	7"		**33RV43**	**33RV42**
		84"	54"	7"		**33RV47**	**33RV46**
C-Matt Basic Mattress, Reversible							
350 lb.	Foam	76"	35½"	6"	Navy/Gray	**33RV11**	**33RV10**
		80"	35½"	6"		**33RV13**	**33RV12**
		84"	35½"	6"		**33RV15**	**33RV14**
C-Matt Basic Plus Mattress, Reversible							
350 lb.	Foam	76"	35½"	6"	Navy/Gray	**33RV05**	**33RV04**
		80"	35½"	6"		**33RV07**	**33RV06**
		84"	35½"	6"		**33RV09**	**33RV08**
C-Matt Comfort Mattress							
350 lb.	Foam	76"	35½"	6"	Navy/Gray	**33RU98**	**33RU97**
		80"	35½"	6"		**33RV01**	**33RU99**
		84"	35½"	6"		**33RV03**	**33RV02**
C-Matt Comfort Ultima Mattress, Reversible							
350 lb.	Foam	76"	35½"	6"	Navy/Gray	**33RU92**	**33RU91**
		80"	35½"	6"		**33RU94**	**33RU93**
		84"	35½"	6"		**33RU96**	**33RU95**
C-Matt Densified Polyester w/Pillow							
350 lb.	8 oz. Polyester	75"	36"	4"	Ocean Blue	—	**25UM07**
	10 oz. Polyester	75"	25"	4"		—	**25UM01**
		75"	30"	4"		—	**25UM05**
		80"	36"	4"		—	**25UM13**

Maximum User Weight	Core Material	L	W	H	Color	Fire Barrier Protection Yes Item No.	Fire Barrier Protection No Item No.
C-Matt Sealed Densified Polyester Core, Reversible							
350 lb.	8 oz. Polyester	75"	25"	4"	Clear	—	**25UL83**
		75"	25"	4"	Ocean Blue	—	**25UL82**
		75"	25"	4"		—	**25UL84**
		75"	30"	4"		—	**25UL86**
		75"	36"	4"	Clear	—	**25UL91**
		75"	36"	4"	Ocean Blue	—	**25UL90**
		80"	36"	4"		—	**25UL94**
	10 oz. Polyester	75"	30"	4"	Clear	—	**25UL89**
		75"	30"	4"	Ocean Blue	—	**25UL88**
		75"	36"	4"	Clear	—	**25UL93**
		75"	36"	4"	Ocean Blue	—	**25UL92**
C-Matt Sealed Foam Core, Reversible							
350 lb.	Foam	75"	25"	4"	Ocean Blue	**25UL73**	—
		75"	30"	4"		**25UL75**	**25UL74**
		76"	36"	5"		**25UL77**	—
		80"	36"	5"		**25UL79**	**25UL78**
		84"	36"	5"		**25UL81**	—

Institutional Bunks and Beds

CORTECH

- Polyethylene construction

Feature durable, one-piece, rotationally-molded design for increased strength. These beds are easy to clean and maintain and are stain-resistant. Ideal for use in correctional and behavioral health facilities, residential institutions, and public safety facilities. Endurance Bunk has molded-in side slots for property box storage and can be reverse-mounted to eliminate property box storage feature. Endurance Bed 2.0 is designed with lower side rails that help make entry and exit easier, and end shelving provides open storage for personal items.



No. G5711



No. H8905

Description	▶CHOOSE: Color	L	W	H	Mfr. Model	Item No.
Endurance Bunk	Black, Blue Grey, Brown, Green, Slate Blue	80"	30"	21"	7601	**G5711**
Endurance Bed 2.0	Black, Blue Gray, Brown, Green, Slate Blue	85"	41"	24"	7801	**H8905**



Cam Border



Dobby Border



Hand and Wash Towels



Bath Mat

martex Five Star Hotel COLLECTION R&R R&R Textile Mills Inc. SUPPLIER DIVERSITY

Towels

CAM BORDER

Blended cam border increases wear life, reduces replacement costs, and improves a room's appearance. Polyester/cotton base with cotton loops.

DOBBY BORDER

Woven dobby border provides durability, reduces replacement costs, and adds a decorative touch to your towels.

MARTEX® SOVEREIGN

Blended terrycloth has soft, absorbent ring-spun cotton loops and a long-lasting cotton/poly blend underweave. Wash Towels have hemmed edges for comfortable use. Other styles have lock-stitched, bar-tacked hems on all 4 sides for added strength and style.

MARTEX® BRENTWOOD

Combine luxury and affordability in a 100% ring-spun cotton dobby border ensemble. Provide a welcome reminder of home. Ecru towels feature Stay Bright™ bleach-friendly, fade-resistant technology.

W	L	Material	Weight	Brand	WHITE Item No.	WHITE Pkg. Qty.	ECRU/BEIGE Item No.	ECRU/BEIGE Pkg. Qty.
Cam Border								
Wash Cloth								
12"	12"	86% Cotton, 14% Polyester	1 lb.	R & R Textile	**38X621**	12	—	—
12"	12"	86% Cotton; 14% Polyester	1 lb.	R & R Textile	**5NWP3**	12	**5NWR2**	12
12"	12"	100% Cotton	1 lb.	R & R Textile	**5NWR9**	12	—	—
12"	12"	100% Cotton	0.75 lb.	R & R Textile	**5NWT0**	12	—	—
12"	12"	Cotton/Polyester	1 lb.	Martex	**34AZ76**	12	**34AZ77**	12
Hand Towel								
16"	27"	50/50 Polyester/Cotton Base, 100% Cotton Loops	3.5 lb.	Martex	**15V537**	24	—	—
16"	27"	86% Cotton, 14% Polyester	3 lb.	R & R Textile	**38X620**	12	—	—
16"	27"	50/50 Polyester/Cotton Base, 100% Cotton Loops	3 lb.	Martex	**11W235**	24	**11W239**	24
16"	27"	86% Cotton; 14% Polyester	3 lb.	R & R Textile	**5NWP2**	12	**5NWR1**	12
16"	27"	100% Cotton	2.75 lb.	R & R Textile	**5NWR8**	12	—	—
Bath Mat								
20"	30"	86% Cotton, 14% Polyester	7 lb.	R & R Textile	**5NWP4**	12	**5NWR3**	12
20"	30"	50/50 Polyester/Cotton Base, 100% Cotton Loops	7 lb.	Martex	**11W237**	12	**11W241**	12
21"	34"	100% Cotton	10 lb.	R & R Textile	**5NWN8**	12	**5NWP9**	12
Bath Towel								
20"	40"	86% Cotton; 14% Polyester	6 lb.	R & R Textile	**5NWP1**	12	—	—
20"	40"	100% Cotton	5 lb.	R & R Textile	**5NWR7**	12	—	—
22"	44"	100% Cotton	6 lb.	R & R Textile	**5NWR6**	12	—	—
24"	48"	100% Cotton	8 lb.	R & R Textile	**5NWR5**	12	—	—
24"	48"	50/50 Polyester/Cotton Base, 100% Cotton Loops	8 lb.	Martex	**15V536**	12	—	—
24"	48"	86% Cotton; 14% Polyester	8 lb.	R & R Textile	**5NWP0**	12	—	—
24"	50"	86% Cotton; 14% Polyester	10.5 lb.	R & R Textile	**5NWN9**	12	**5NWR0**	12
24"	50"	50/50 Polyester/Cotton Base, 100% Cotton Loops	10½ lb.	Martex	**11W234**	12	**11W238**	12
24"	50"	100% Cotton	10 lb.	R & R Textile	**5NWR4**	12	—	—
24"	50"	86% Cotton, 14% Polyester	10.5 lb.	R & R Textile	**38X619**	12	—	—
24"	54"	50/50 Polyester/Cotton Base, 100% Cotton Loops	12½ lb.	Martex	**15V538**	12	—	—
25"	54"	50/50 Polyester/Cotton Base, 100% Cotton Loops	13½ lb.	Martex	**15V535**	12	—	—
Dobby Border								
Wash Cloth								
12"	12"	Cotton/Polyester	1 lb.	Martex Sovereign	**34AZ82**	12	**34AZ84**	12
13"	13"	100% 2 Ply Combed Cotton	1.7 lb.	5 Star Hotel Collection	**38W337**	48	—	—
13"	13"	100% Cotton	4.5 lb.	R & R Textile	**5NWN7**	12	—	—
13"	13"	100% Cotton	1.5 lb.	R & R Textile	—	—	**5NWP8**	12
13"	13"	Cotton	1½ lb.	Martex Brentwood	**34AZ78**	12	**34AZ79**	12
13"	13"	Cotton	1¾ lb.	Martex Brentwood	**34AZ80**	12	**34AZ81**	12
13"	13"	Cotton/Polyester	1½ lb.	Martex Sovereign	**34AZ83**	12	**34AZ85**	12
Hand Towel								
16"	27"	50/50 Polyester/Cotton Base, 100% Cotton Loops	3 lb.	Martex Sovereign	**15V553**	24	**15V562**	24
16"	30"	100% 2 Ply Combed Cotton	4.5 lb.	5 Star Hotel Collection	**38W336**	24	—	—
16"	30"	100% Cotton	4.5 lb.	R & R Textile	**5NWN6**	12	**5NWP7**	12
16"	30"	100% Cotton	4½ lb.	Martex Brentwood	**11W243**	24	**11W247**	24
16"	30"	100% Cotton	5¾ lb.	Martex Brentwood	—	—	**15V547**	24
16"	30"	50/50 Polyester/Cotton Base, 100% Cotton Loops	4 lb.	Martex Sovereign	**15V554**	24	**15V563**	24
Bath Mat								
20"	34"	100% Cotton	10 lb.	Martex Brentwood	**11W245**	12	**11W249**	12
20"	34"	50/50 Polyester/Cotton Base, 100% Cotton Loops	10 lb.	Martex Sovereign	**15V559**	12	**15V568**	12
Bath Towel								
27"	50"	100% Cotton	14 lb.	R & R Textile	**5NWN5**	12	**5NWP6**	12
27"	50"	50/50 Polyester/Cotton Base, 100% Cotton Loops	14 lb.	Martex Sovereign	**15V556**	12	**15V565**	12
27"	50"	100% Cotton	14 lb.	Martex Brentwood	**11W244**	12	**11W248**	12
24"	50"	50/50 Polyester/Cotton Base, 100% Cotton Loops	10½ lb.	Martex Sovereign	**15V555**	12	**15V564**	12
27"	54"	100% Cotton	15 lb.	Martex Brentwood	**15V543**	12	**15V548**	12
27"	54"	100% Cotton	17 lb.	Martex Brentwood	**15V544**	12	**15V549**	12
27"	54"	50/50 Polyester/Cotton Base, 100% Cotton Loops	17 lb.	Martex Sovereign	**15V557**	12	**15V566**	12
27"	54"	100% Cotton	17 lb.	R & R Textile	**5NWN4**	12	**5NWP5**	12
30"	56"	100% 2 Ply Combed Cotton	18 lb.	5 Star Hotel Collection	**38W335**	12	—	—
Bath Sheet Towel								
30"	60"	100% Cotton	20 lb.	Martex Brentwood	**15V545**	12	**15V550**	12
35"	66"	100% Cotton	20½ lb.	Martex Sovereign	**15V558**	12	**15V567**	12



No. 5NWT2



No. D5706



No. H3911



No. 38X623

R&R Textile Mills Inc.
martex

Pool and Exercise Towels

Front and back plied-loop ring-spun cotton yarns provide plushness and enhanced absorbency. Hems are lock-stitched and bar-tacked for longer life and less fraying. Solid color pool towels feature Stay Bright™ bleach-friendly, fade-resistant technology.

W	L	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
100% Cotton - Pool Towel					
20"	40"	White with Stripe	R & R Textile	**5NWT3**	12
22"	44"	White with Stripe	R & R Textile	**5NWT2**	12
30"	54"	Green Ice, Persimmon, Violet, Yellow	Martex	**D5706**	12
30"	70"	Blue/White Stripe, Peach/White Stripe, Yellow/White Stripe, Jade/White Stripe	Martex	**D5705**	12
50/50 Polyester/Cotton Base, 100% Cotton Loops - Pool Towel					
20"	40"	Blue Center Stripe	Martex	**11W250**	12
24"	50"	White w/Blue Double Dobby	Martex	**38W334**	12
30"	66"	Dark Linen, Deep Sea, White, Deep Sea/White Stripe, Dark Linen/White Stripe	Martex	**H3911**	12
86% Cotton, 14% Polyester - Exercise Towel					
11"	44"	White	R & R Textile	**38X623**	12



Riviera Series



Elite Loop Series

LACEY MILLS

Bath Rugs

White cotton rugs with rounded corners, make the perfect compliment to any bathroom.

Description	Backing	24"L x 17"W Item No.	34"L x 21"W Item No.	36"L x 24"W Item No.	40"L x 24"W Item No.
Essence Series					
19 oz. ⅜" cut pile	Cotton Duck	**11K017**	**11K019**	**11K021**	**20UM86**
Elegance Series					
28 oz. ⅝" cut pile	Cotton Duck	**11K035**	—	**11K039**	—
Elite Loop Series					
33 oz. ⅞ to ½" cut pile	Cotton Duck	—	**11K041**	—	—
Riviera Series					
18 oz. ½" cut pile	Latex	—	**11K023**	—	—



Rubbermaid Commercial Products

Shower and Bath Mats

- Pkg. of 12

Latex-free mats feature a textured surface to prevent slipping and a suctioned backing to keep it firmly in place.

W	L	Color	Item No.
14"	22½"	White	**52YX14**
16"	28"	Brown	**52YX15**
16"	28"	White	**52YX16**
18"	36"	White	**52YX18**
16"	28"	White	**52YX17**

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**

Scan. Order. Done.
Details on page A1.



No. 3NZP8



No. 3NZP9



No. 3NZN7



No. 3NZP2

Bath Scales

TAYLOR

Digital and analog scales offer accuracy with easy-to-read dials.

Cap.	Includes	Weighing Units	Weighing Surface Width	Weighing Surface Depth	Scale Graduations	Model	Item No.
Digital Bath Scales							
180kg/400 lb.	1¼" LCD, Batteries	kg, lb.	13"	1½"	0.1kg/0.2 lb.	74074102	**3NZP8**
180kg/400 lb.	1" LCD, Batteries	kg, lb.	14¼"	2¼"	0.2kg/0.5 lb.	75064192	**3NZP9**
180kg/400 lb.	Batteries	kg, lb.	11⅞"	11⅞"	0.09kg/0.2 lb.	7558	**53DL82**
Mechanical Bath Scales							
136kg/300 lb.	White Mat	kg, lb.	10½"	10¼"	1kg/2 lb.	20044014EXP	**3NZN7**
300 lb.	Black Mat	lb.	11½"	10¹³⁄₁₆"	2 lb.	48325072	**3NZP2**



1600W Handheld



1875W Soft Surface™



1875W Ionic Cord-Keeper®



1600W Wall-Mount



1600 Watt Ionic Hang Up® w/ Night Light



Hair Dryer Bag

Hair Dryers

CONAIR HOSPITALITY andis Hospitality 1 Source, LLC

Convenient, powerful, compact dryers easily store or can be wall-mounted. Night Light models feature a LED light that can help facilities reduce cost when used as a night light.

Description	Color	Voltage	Cord Length	No. of Speeds	Std.	Brand	Item No.
Handheld							
1600 Watt	White	125V	5 ft.	2	ETL	Conair	**6GAL9**
1600 Watt	Black	125V	5 ft.	2	ETL	Conair	**6GAM0**
1600 Watt ProStyle™	White	125V	6 ft.	4	UL	Andis	**28CK24**
1600 Watt ProStyle™	Black	125V	6 ft.	4	UL	Andis	**28CK25**
1600 Watt MicroTurbo®	White	120V	6 ft.	2	UL	Andis	**28CK26**
1875 Watt	White	125V	5 ft.	2	ETL	Conair	**6GAM3**
1875 Watt	Black	125V	6 ft.	2	ETL	Conair	**6GAM4**
1875 Watt Fold-N-Go Ionic™	Black/Silver	125V	6 ft.	3	UL	Andis	**28CK23**
1875 Watt Soft Surface™	Black	125V	5 ft.	2	UL	Conair	**6GAM5**
1875 Watt Ionic Cord-Keeper®	White	125V	5 ft.	2	UL	Conair	**6GAM6**
1875 Watt Ionic Cord-Keeper®	Black	125V	5 ft.	2	UL	Conair	**6GAM7**
Wall Mounted							
1600 Watt	White	125V	34"	2	UL	Conair	**6GAM1**
1600 Watt	Black	125V	34"	2	UL	Conair	**6GAM2**
1600 Watt Hang Up®	White	125V	8 ft.	2	UL	Andis	**28CK17**
1600 Watt Hang Up® w/ Night Light	White	125V	8 ft.	2	UL	Andis	**28CK18**
1600 Watt Ionic Hang Up® w/ Night Light	White	120V	8 ft.	2	UL	Andis	**28CK19**
1600 Watt Ionic Hang Up® w/ Night Light	Black	120V	8 ft.	2	UL	Andis	**28CK20**
1600 Watt Hang Up® w/ Night Light Direct Wired	White	125V	8 ft.	2	UL	Andis	**28CK27**
Hair Dryer Bag							
12 x 12", Cotton/Poly Twill	Black	—	—	—	—	Hospitality 1 Source	**41H540**

Find even MORE on Grainger.com®



No. 16W504



No. 28CK33



No. 33F189



No. 16W505

SINGER
CONAIR HOSPITALITY andis

Electric Irons and Steamers

Electric Irons—Steam irons provide vertical and horizontal steam bursts. Auto-Off. Expert Finish™ has 9 temperature settings with electronic LCD control. 1700W. 2-Way models automatically reduce sole plate temperature if iron is not moved while in vertical position for 3 min. Adjustable temperature and steam controls.

▪ 1700W (Expert Finish™); 1100W (2-Way) ▪ Self-cleaning ▪ Spray mist

Cord-Keeper™ Electric Steam Irons—Feature adjustable temperature control, nonstick soleplate, and anti-drip function to help reduce spills and conserve water. Safety auto shutoff feature turns iron off when left horizontal for 30 sec., vertical for 8 min. Cord retracts for easy storage.

▪ 1400W ▪ Self-cleaning ▪ Spray and burst of steam

Electric Upright Steamer—Compact system has a telescoping hanger pole, pants-clip option, and fabric brush to quickly refresh guest clothing. Also features Auto-Off, crease attachment, rotating hanger, and removable, extra-large water tank.

▪ 1500W ▪ Steam ready in 45 sec. ▪ 90 min. steam output

Electronic Steam Press—Compact, portable press has fabric-specific electronic heat settings, variable steam selections, and steam bursts. Auto-Off has an alarm. Locks for storage and portability. Includes washable pad cover, pressing cushion, spray bottle, and measuring cup.

▪ 1500W ▪ Easy-fill tank ▪ Die-cast aluminum base

Description	Water Cap.	Power Cord Length	Weight	Brand	Item No.
Electric Irons					
Expert Finish™	1.5mL	7¾ ft.	2.9 lb.	Singer	**16W504**
2-Way - White	350mL	8 ft.	2.6 lb.	Andis	**28CK33**
2-Way - Black					**28CK34**
Cord-Keeper™ Steam Irons					
White	200mL	8 ft.	3.3 lb.	Conair	**33F188**
Black					**33F189**
Electric Upright Steamer					
SteamWorks™ Pro	2.5L	5¾ ft.	11 lb.	Singer	**16W505**
Electronic Steam Press					
ESP2 Magic Steam Press	300mL	6½ ft.	21.75 lb.	Singer	**16W506**



No. 5DMN5



No. 15V327



No. 15V330



No. 15V333

Laundry and Wash Bags

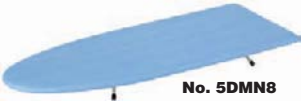
can honey do INTERNATIONAL

Item	Material	Overall Length	Overall Width	Color	Item No.
Laundry Bags, Drawstring Closure					
Laundry Bag	Cotton	36"	24"	White	**5DMN5**
Mesh Laundry Bag	Mesh	36"	24"	Blue	**15V325**
Mesh Laundry Bag	Mesh	36"	24"	White	**5DMN3**
Mesh Laundry Bag	Mesh	36"	24"	Green	**5DMN4**
Mesh Wash Bags, Zipper Closure					
Sweater Wash Bag	Mesh	23"	22"	White	**15V327**
Lingerie Wash Bag	Mesh	18"	12"	White	**15V328**
Hosiery Wash Bag	Mesh	16½"	6"	White	**15V329**
Bra Wash Bag	Mesh	7"	4½"	White	**15V330**
Wash Bag Set (1) Sweater Bag, (2) Lingerie Bags	Mesh	10", 20"	18", 24"	White	**15V331**
Fabric-Softening Dryer Balls, Pkg. of 2					
Fabric Softener Ball	—	—	—	Blue	**15V333** *

** Price per pkg.*

can honey do INTERNATIONAL Hospitality 1 Source, LLC

Ironing Boards



No. 5DMN8

Tabletop Ironing Board—Smaller size is easy to transport and stow. Board folds flat.

Ironing Boards—No. 5DMP0 mounts directly on door to be pulled down when needed. No. 5DMP2 includes a tray to hold a hot iron when not in use

Ironing Board Covers—Scorch- and stain-resistant covers have elastic banding for a snug fit. All others are all-in-one covers and pads.

Description	L	W	Brand	Item No.
Tabletop Ironing Board				
Tabletop - Includes (1) Pad, (1) Cover	31"	12"	Honey-Can-Do	**5DMN8**
Ironing Boards				
Over-the-Door - Includes (1) Pad, (1) Cover	41"	14"	Honey-Can-Do	**5DMP0**
T-Leg - Includes Iron Rest, (1) Pad, (1) Cover	54"	13"	Honey-Can-Do	**5DMP2**
Rust-Resistant T-Leg - Includes (1) Pad, (1) Cover	54"	13"	Honey-Can-Do	**5DMN9**
Quad Leg - Includes Retractable Iron Rest	54"	15"	Honey-Can-Do	**15V255**
Ironing Board Covers				
Standard for Moderate Use (1-5 times per month)				
Scorch-Resistant, 3/16" fiber backed - Blue	54"	15"	Hospitality 1 Source	**41H538**
Scorch-Resistant, 3/16" fiber backed - Tan	54"	15"	Hospitality 1 Source	**41H539**

can honey do INTERNATIONAL



No. 15V298



No. 15V312

Hampers

Wide selection of styles accommodates almost every decor and laundry need.

Description	Material	Dimensions	Item No.
Pop-Open Hampers			
Black	Nylon Mesh	28"H x 27"W x 18½"L	**15V305**
Black	Steel/Mesh	24"H x 19"W x 19"L	**15V298**
Resin Hampers			
1-Compartment	Resin	22"H x 14"W x 14"L	**15V312**
2-Compartment	Mesh/Resin	26"H x 24"W x 24"L	**15V310**
Wicker Hampers			
Square with Cover	Steel/Wicker	26"H x 13½"W x 13¾"L	**15V314**
Square with Removable Bag	Steel/Canvas	H x 25"W x 14"L	**15V315**

Clothespins and Clotheslines

can honey do INTERNATIONAL



Wooden



Plastic

Description	H	W	L	Item No.	Pkg. Qty.
Clothespins, 10-lb. Cap.					
Wooden	½"	13/32"	3 19/64"	**5DML7**	24
Wooden	½"	13/32"	3 19/64"	**5DML8**	50
Plastic	½"	13/32"	3 19/64"	**5DMN1**	50
Plastic	½"	13/32"	3 19/64"	**5DMN2**	100
Clotheslines					
Retractable Clothesline	—	—	8 ft.	**15V282**	1
Retractable Clothesline	—	—	40 ft.	**15V283**	1
Clothesline Pole	44 to 69"	—	—	**15V289**	1

Lint Brush and Fabric Shaver

can honey do INTERNATIONAL

Lint brush and fabric shaver are designed to keep clothing items and fabrics free of lint, dust, and pet hair. They are suitable for use on pants, coats, sweaters, dresses, suits, formal wear, and furniture. Fabric shaver requires (2)AA batteries (not included).



No. 15V334



No. 15V335

Item	Color	Item No.
Double Sided Lint Brush	Green	**15V334**
Battery Powered Fabric Shaver	White	**15V335**


No. 5RZU9


No. 45NG76


No. 5RZT8

Coat Racks

GRAINGER APPROVED

Organization and storage for use in restaurants, storage rooms, coatrooms, or hotel closets.

H (in.)	D (in.)	W (in.)	Holds	Item No.
CSL Wood with ⅝" Dia Hanging Bar for Standard Hangers				
10½	12¾	30	Up to 15 garments	**5RZU8**
10½	12¾	36	Up to 18 garments	**5RZU9**
CSL Zinc with 1" Dia Hanging Bar for Standard Hangers				
17	14¾	24	Up to 12 garments	**5RZT8**
17	14¾	30	Up to 15 garments	**5RZT9**
17	14¾	36	Up to 18 garments	**5RZU0**
17	14¾	48	Up to 24 garments	**5RZU1**
GA Aluminum/Steel with 7" Base Dia.				
7	3¾	36	Up to 12 Garments	**45NG76**

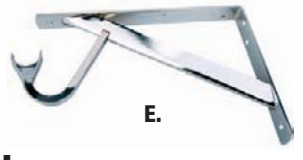

A.


B.


C.


F.


D.


E.

John Sterling

Standard Closet Hardware

Key	Color	L (in.)	Max. Rod Dia. (in.)	Load Cap. (lb.)	Item No.	Pkg. Qty.
Heavy-Duty Closet Poles						
A	White	48"	1¼	—	**5EAC7**	1
A	White	72"	1¼	—	**5EAC8**	1
A	White	96"	1¼	—	**5EAC9**	1
A	Chrome	72"	1⁹⁄₁₆	—	**5EAD5**	1
A	Chrome	96"	1⁹⁄₁₆	—	**5EAD6**	1
Closet Rods						
B	Platinum	30 to 48"	1	—	**5EAD0**	1
B	Platinum	48 to 72"	1	—	**5EAD1**	1
B	Platinum	72 to 120"	1	—	**5EAD2**	1
Pole Sockets						
C	White	2⁷⁄₁₆"	1⅜	—	**5EAD3**	2
C	Chrome	⅞"	1⁹⁄₁₆	—	**5EAD7**	2
End Caps						
D	Chrome	³⁄₁₆"	1⁹⁄₁₆	—	**5EAD8**	2
Shelf and Rod Brackets						
E	Chrome	11¼"	1⁹⁄₁₆	500	**5EAD9**	1
E	White	14	1⁹⁄₁₆	500	**6UDG8**	1
E	White	11"	1⁹⁄₁₆	250	**6UDG7**	1
E	White	12½"	1⅜	250	**6UDG6**	1
E	White	12⁹⁄₁₆"	1⅜	200	**6UDK4**	1
Shelf and Rod Bracket Hardware, Screws and Caps						
F	White		—	—	**5EAD4**	8


No. 6UDJ3


No. 6UDJ1


No. 6UDJ6

Track Mount Closet Storage System

GRAINGER APPROVED

John Sterling

Color	L (in.)	W (in.)	H (in.)	Load Cap. (lb.)	Brand	Item No.
Dual Slot Standard Track						
White	48½"	1"	⅝"	—	GA	**6UDJ1**
Standard Shelf Brackets						
White	11½"	½"	2³⁄₁₆"	170	GA	**6UDJ3**
White	14⅞"	½"	2³⁄₁₆"	115	GA	**6UDJ4**
White	19¼"	½"	3³⁄₁₆"	180	GA	**6UDJ5**
Hang Track						
White	40"	1¼"	⅜"	1000	GA	**6UDJ6**
White	80"	1¼"	⅜"	2000	GA	**6UDJ7**
Fasteners						
White	2½"	³⁄₁₆"	—	—	John Sterling	**6UDK3**

can honey do INTERNATIONAL


No. D7951

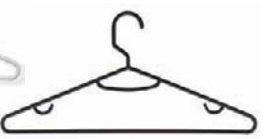
Wood Suit and Shirt Hangers

Solid hardwood hangers have feature a swiveling hook. Contoured to prevent hanger marks and wrinkling of garments. Suit hangers have a trouser bar to hold coordinating suit pants.

▶CHOOSE: Finish	Item No.	Pkg. Qty.
Non-Slip Suit Hangers		
Maple, Cherry	**D7951**	24
Shirt Hangers		
Cherry	**15V340**	5

can honey do INTERNATIONAL


No. 15V357


No. 15V358

Plastic Hangers

Economical, convenient hangers can be used on any standard-size hanging bar or garment rack.

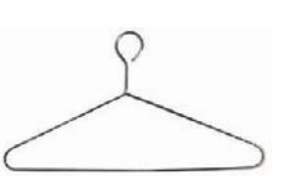
Description	Finish	Item No.	Pkg. Qty.
Tubular	White	**15V357**	15
Heavyweight	White	**15V362**	3
Recycled Plastic	Black	**15V358**	15
Recycled Plastic	White	**15V361**	15

GRAINGER APPROVED

Closed-Hook Hangers

Feature 18-ga. tubular steel bright chrome finish. Hangers are not removable from rack and prevent theft.

Finish	Item No.	Pkg. Qty.
Chrome	**5DYC0**	12





No. 38X953



No. 38X958

Cardio Equipment

PROMaxima STRENGTH & CONDITIONING

Description	Mfr. Model	Item No.
Treadmills		
26 Programs, 15" HD LCD TV, IPod Capabilities	CV-S25TXIA	**38X953**
26 Programs, LCD Display, IPod Capabilities	CV-S25T	**38X952**
Elliptical Machines		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only), Standard Bio Stride	CV-S25E	**38X954**
15" HD LCD TV, 17 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod Compatible, USB (Charge Only), Standard Bio Stride	CV-S25EXIA	**38X955**
Indoor Training Bike		
Wellgo R12 Pedal, PVC Dipped Grip Handlebar, Leather Brake Pad, Standard Transport Wheels, Standard Emergency Stop	77100	**38X951**
Recumbent Bikes		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25R	**38X956**
15" HD LCD TV, 16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod Compatible, USB (Charge Only)	CV-S25RXIA	**38X957**
Upright Bikes		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25U	**38X958**
15" HD LCD TV, 16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25UXIA	**38X959**

Get More Online

Grainger has a **large selection of fitness equipment** including upper- and lower-body weight machines and versatile multi gym units. Visit Grainger.com® and search **"Exercise Equipment."**



No. 6PXR2



No. 6PXR8



No. 6PXT2

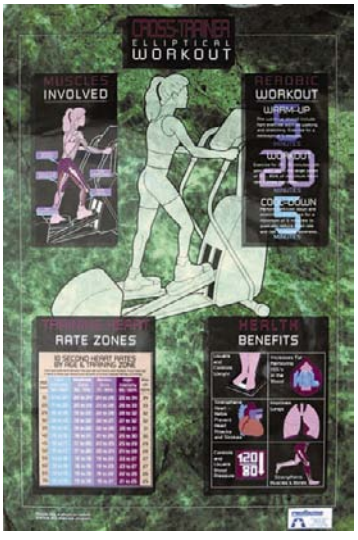
Weightlifting Equipment

PROMaxima STRENGTH & CONDITIONING

Add to the weight training section of your fitness center or gym with these weight plates and dumbbell sets. Weight plates are sold individually. 7-ft., 3-tier dumbbell rack holds up to 19 pairs of dumbbells. 2" x 2" heavy-wall steel construction with durable powder-coat finish. Small footprint requires minimal space.

Description	Mfr. Model	Item No.
Weight Plates		
2.5 lbs.	EZR-02.5	**6PXR4**
5 lbs.	EZR-05	**6PXR3**
10 lbs.	EZR10	**6PXR2**
25 lbs.	EZR-25	**6PXR1**
35 lbs.	EZR-35	**6PXR0**
45 lbs.	EZR-45	**6PXP9**
Dumbbell Sets		
(2) 5 lb., (2) 10 lb., (2) 15 lb., (2) 20 lb., (2) 25 lb.	HEXR-SET6	**6PXR5**
(2) 5 lb., (2) 10 lb., (2) 15 lb., (2) 20 lb., (2) 25 lb., (2) 30 lb.	HEXR-SET7	**6PXR6**
(2) 5 lb., (2) 10 lb., (2) 15 lb., (2) 20 lb., (2) 25 lb., (2) 30 lb., (2) 35 lb., (2) 40 lb., (2) 45 lb., (2) 50 lb.	HEXR-SET1	**6PXR7**
(2) 5 lb., (2) 10 lb., (2) 15 lb., (2) 20 lb., (2) 25 lb., (2) 30 lb., (2) 35 lb., (2) 40 lb., (2) 45 lb., (2) 50 lb., (2) 55 lb., (2) 60 lb., (2) 65 lb., (2) 70 lb., (2) 75 lb., (2) 80 lb., (2) 85 lb., (2) 90 lb., (2) 95 lb., (2) 100 lb.	HEXR-SET	**6PXR8**
Dumbbell Racks		
Tier Dumbbell Rack 59"L x 39 9/32"W x 42 3/8"H	FW-233	**30PK93**
Tier Hex Dumbbell Rack 59"L x 28 5/32"W x 30"H	FW-234L	**30PK94**
Benches		
Multi Purpose Workout Bench 48"L x 26"W x 42"H	FW-150U	**6PXT2**
Sit Up Bench 48"L x 18"W x 21"H	FW-32	**6PXT3**

No. 6PXT7



MEASURETEK QUALITY SCALES PROMaxima STRENGTH & CONDITIONING

Weightlifting Accessories

Description	Brand	Mfr. Model	Item No.
Medicine Rack Ball Set - Set Includes 6, 8, 10, 12 lb Balls	ProMaxima	MBSET	**6PXT6**
Physician Scale	ProMaxima	AC-SCALE	**6PXU1**
Exercise Posters - Set of 3	ProMaxima	CV-CHART	**6PXT7**
Agility Balls Set - Set Includes 55 cm, 65 cm, and 75 cm Balls	ProMaxima	Agility	**6PXT8**
Equipment Mat - 4 ft. W x 6 ft. L x ½" Thickness	ProMaxima	MATS-1/2	**38X960**
Foldable Aerobic Mat - 2'W x 6'L x 2" Thickness	ProMaxima	MATS-AEROBIC	**6PXT5**
Physician's Scale	MeasureTek	12R995	**12R995**



No. 6PXT6



No. 6PXU1



No. 6PXT8



No. 6PXT5



No. 12R320



No. 12R288



No. 12R285

Basketball Backstops and Backboards

Description	Backboard Dims. H	W	Thickness	Backboard Material Material	Rim Style	Item No.
Residential Portable Systems						
Backstop	32"	54"	¼"	Acrylic	Arena Slam	12R320
Backstop	38"	60"	¼"	Tempered Glass	Pro Image	12R319
Basketball Backboards						
Fiberglass Basketball Backboard	42"	72"	1¾"	Fiberglass	—	12R309
Backboards						
Steel Backboard	42"	72"	1⅞"	Steel	—	30D959
Basketball Backboards						
Superglass™ Collegiate Basketball Backboard	42"	72"	2¼"	Tempered Glass	—	12R288
Basketball Slammer Rims						
Slammer Competitor Positive Lock Breakaway Basketball Slammer Rim - Meets NCAA & NFHS Specifications						12R285
Basketball Gorilla Rims						
Roughneck Gorilla Fixed Basketball Gorilla Rim - Meets NFHS Specifications						12R286
Gymnasium Components						
115VAC Electric Winch (wire rope not included) - 1000 Pulling Capacity Single Line (Lbs.)						12R305
LynRus Aut-O-Loc Safety Belt for Backstops						12R304
Floor Cover Plate Assembly, 7" Diameter						12R322
Ball Storage						
Basketball Rack - Holds 15 Basketballs						30D961



No. 45NL93



No. 45NM18



No. 45NL96



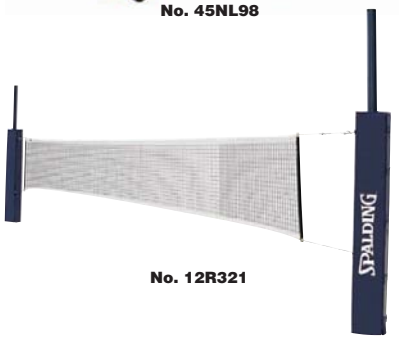
No. 45NL88 (Gym accessories not included)

Athletic Balls and Storage

Description	Material	Brand	Item No.
Basketballs			
Indoor, Outdoor Basketball, Size 6	Composite Cover	Champion Sports	45NL94
Indoor, Outdoor Basketball, Size 7	Rubber Cover	Champion Sports	45NL93
	Composite Cover	Champion Sports	45NL92
Footballs			
Outdoor Football, Size 11.5	Water Resistant Pro Rubber	Champion Sports	45NM09
	Composite Cover	Champion Sports	45NM08
Soccer Balls			
Indoor, Outdoor Soccer Ball, Size 5	Composite Cover	Champion Sports	45NM15
Volleyballs			
Indoor, Outdoor Volleyball, Size 8.25	Rubber Cover	Champion Sports	45NM18
	Composite Leather	Champion Sports	45NM17
Playground Ball Set			
Indoor, Outdoor Playground Ball Set, Size 8.5	—	Champion Sports	45NM22
Baseballs			
Outdoor Baseball, Size 9	Syntex Leather Cover	Champion Sports	45NL96
Softballs			
Outdoor Softball, Size 12	Syntex Leather Cover	Champion Sports	45NL97
Tennis Balls			
Indoor, Outdoor Tennis ball, Size 3	—	Champion Sports	45NM30
Ball Storage			
Mesh Equipment Bag, Size 24" x 36"	Nylon Mesh		45NM07
Basketball Cart - Holds Up to 12 Basketballs	—	Champion Sports	45NL89
Ball Cart - Holds Up to 30 Volleyballs	—		45NM21
Volleyball Ball Caddy - Holds Up To 8 Volleyballs	—	Spalding	12R325
Physical Ed Sports Equipment Cart - Holds Up to 32 Basketballs, 40 Soccer Balls or Playground Balls, 150 Jump Ropes and 48 Hoops	—	Champion Sports	45NL88
Basketball Rack - Holds 15 Basketballs	—	Spalding	30D961
Game Ball Locker - Holds Up to 12 Basketballs	—		45NL86
Game Ball Locker - Holds Up to 30 Basketballs, Soccer Balls or Playground Balls	—	Champion Sports	45NL87



No. 45NL98



No. 12R321

Athletic Equipment and Accessories

Description	Brand	Item No.	Pkg. Qty.
Baseball			
Fielder's Glove, Leather	Champion Sports	45NL98	1
Base Set, Rubber, Includes Home Plate and 3 Bases	Champion Sports	45NM02	4
Base Set, Foam Filled, Nylon Covered Base Set	Champion Sports	45NM01	3
Base Set, Foam Filled, Quilted Covered Base Set	Champion Sports	45NL99	3
Home Plate, Waffle Bottom Rubber	Champion Sports	45NM06	1
Home Plate, Rubber	Champion Sports	45NM05	1
Youth Pitchers Plate, Rubber - 18" x 4" x 1"	Champion Sports	45NM03	1
Official Size Pitcher's Plate, Rubber - 24" x 6" x 1"	Champion Sports	45NM04	1
Basketball			
Basketball Goal Net, Nylon	Champion Sports	45NL90	1
Basketball Goal Net, Zinc Plated Steel Chain	Champion Sports	45NL91	1
Basketball Goal Net, Braided Nylon	Spalding	12R287	1
Volleyball			
Volleyball Net, 2.2mm Polyethylene Netting	Champion Sports	45NM19	1
Volleyball Net, 3mm Braided Polyethylene Netting	Champion Sports	45NM20	1
Volleyball Net with Steel Dowels, Rope Ratchets, and Net Tension Straps	Spalding	12R323	1
	Spalding	12R324	1
Aluminum Volleyball System with 2 Uprights, Net, Antenna, and Padding	Spalding	12R321	1
Pumps			
12" Hand Pump	Champion Sports	45NM14	1
11" Double Action Air Pump	Champion Sports	45NM13	1
Electric Inflating Pump - ¼ HP	Champion Sports	45NM12	1
Accessories			
Inflating Needles, Pkg. of 2	Spalding	12R343	2
Scrimmage Vest - Orange, Pkg. of 12	Champion Sports	45NM10	12
Scrimmage Vest - Red, Pkg. of 12	Champion Sports	45NM11	12
Plastic Whistle with Lanyard	Spalding	12R344	1
Metal Whistle with Lanyard	Spalding	12R345	1
Multi-Sport Tabletop Indoor Electronic Scoreboard - 24"L x 16"H x 10"D	Champion Sports	45NL95	1
Wall Padding, 18 oz. Vinyl Cover Material	Spalding	12R307	1



No. 38H464



No. 38H465

Folding Table Tennis Tables

Lighweight, portable indoor tables have an exceptionally sturdy and stable undercarriage. Feature a 25mm-thick black finish strong enough to endure every smash, loop, and flip a player makes. Easy to fold up, move and store. Ideal for any age and level of play.

Description	Folded Dimensions	Item No.
Table Tennis Table with Black Net	60" L x 18½" W x 62" H	38H464
Tennis Table with (3) Ball, (2) Paddle, Premium Net	107²⁹⁄₃₂" L x 60" W x 63" H	49JP36
Indoor/Outdoor Paddle and Ball Set	—	33TZ46
Table Tennis Accessory Kit	—	38H465
Table Tennis Conversion Top	—	6FZW2



No. 6FZW3



No. 34CT10

Air Hockey Tables

Brunswick—Features electronic scoring, exceptional speed of play, and slick, scuffproof surface. Aluminum/wood construction. Aluminum rails with powder-coated metal corners. Includes 2 mallets and 4 pucks.

Hathaway—Rich cherry wood-tone PVC laminated cabinet, scratch resistant high-gloss poly sealed playing surface with streamlined radius corners. Features sturdy pedestal style legs with independent 3" stabilizing Leg Levelers

Description	L	W	H	Brand	Item No.
Air Hockey Tables					
Full Size Table	83 in	41 in	30 ½ in	Brunswick	6FZW3
Full Size Table	72 in	36 in	31 in	Hathaway	34CR16
Full Size Table	60 in	29 ⅝ in	31 in	Hathaway	34CR27
Accessories					
Striker/Puck Set Includes (2) 3¾" Strikers and (2) 2⅞" Pucks				Hathaway	34CT10
Striker/Puck Set Includes (2) 3" Strikers and (2) 2½" Pucks				Hathaway	34CT12



No. 6FZW4



No. 34CR32

Foosball Tables

Brunswick—Constructed of a sturdy, wood cabinet with a matte black finish. Features 3-man goalie, dual-side ball return, and externally-attached cup holders. Adjustable leg levelers for easy installation and leveling on uneven floors.

Hathaway—Table features ½" thick reinforced L-shaped legs and chrome-plated ½" steel rods with easy-grip rubber handles, 3 goalie configuration with durable ABS molded players, 13 players per team, manual scoring system, and end ball return.

Description	Brand	Item No.
Foosball Tables		
Foosball Table	Brunswick	6FZW4
Playoff Full-Size Table	Hathaway	34CR32
Sidekick Tabletop Game	Hathaway	34CR64
Accessories		
Foosballs, Includes (3) Soccer-Style Replacement Foosballs	Hathaway	34CT11



No. 53DN21



No. 53DN23



No. 53DN22



No. 53DN24

Dartboards and Darts

Electronic board features digital scoring with a push button control panel LED. Sisal board is constructed of self-healing fibers. Each include 2 sets of darts. Additional darts sold separately.

Board Style	Includes	Board Material	Open Height	Open Width	Open Depth	Mfr. Model	Item No.
Dartboards							
Electronic	(6) Soft Tip Darts	Plastic	22¾"	20½"	1⅛"	BG1042D	53DN21
Sisal	(6) Steel Tip Darts	Sisal	18"	18"	1½"	BG1043D	53DN22

For Use With	Includes	Features	Mfr. Model	Item No.
Tip Darts				
Electronic Dartboards	(6) Flights, (6) Shafts, (3) Tips, Carrying Case	Sure Grip, Soft Tip	BG1054	53DN23
Sisal Dartboards		Steel Tip	BG1055	53DN24



No. 34CR04

Premium Billiard Tables and Cloths

Provide great entertainment value for your guests, customers, or staff, these pool tables are ideal for use in hotel/motel game rooms or in other hospitality venues.

Billiard Table Cloths—Worsted wool imbedded with DuPont™ Teflon® fabric protector does not pill or shed to maintain a clean, sleek playing surface. Fabric is 24 oz. per sq. yd. and 144 strands per inch.

Table Size	Table Finish	Pockets	Cloth Color	Cloth Type	W	H	Item No.
Billiard Tables							
3½ ft.	Black	Netting Drop	Blue	Polyester/Wool	21½"	7"	34CR58
7 ft.	Black	Internal Ball Return	Blue	Wool/Nylon	48"	32"	34CR04
7 ft.	Black Cherry Melamine	Plastic Drop	Black	Wool/Nylon	46"	31"	53DN27

▶CHOOSE: Color	For Use On	Item No.
Billiard Table Cloths		
Brunswick Green, Cardinal Red, Chocolate Brown, Ebony, Gun Metal Gray, McIntosh, Merlot, Midnight Blue, Olive, Regatta Blue, Sahara, Timberline	8 ft. Pool Tables	D9488
	9 ft. Pool Tables	D9489

Find More Online

For color swatches of available cloth options go to **Grainger.com®** and search for "**Pool Table Cloths**".

Pool Care Troubleshooting Guide



Skin and Eye Irritation—Caused by improper pH levels of the water in your pool or spa, especially a pH level of below 7. Test the water pH level; adjust as needed to maintain the proper pH range of 7.2 to 7.6. Shock to destroy any contaminants.



Algae Problems—Test and adjust your pool or spa water pH level to 7.4. If you are seeing the beginning of algae growth, shock the water. Wait 24 hr. after shock and then use an algaecide.



Cloudy Water—Check the filter system and pump to make sure they are operating effectively. Check the filter for holes that are letting fine particulars pass through. Make sure you are running the filter long enough to clean your pool. Test water for total alkalinity and pH and adjust as needed. Check the chlorine level and check for the presence of dead algae. Shock the water. Use a clarifier for small particles that the filter does not catch.

PurTest® CLOROX Pool&Spa KEM-TEK pool & spa care.

Pool Chemicals

Water Analysis Kits—Detect a wide range of bacteria, including E. coli, pseudomonas, Klebsiella, and salmonella.

Step 1 Balance—Balancing your pool water ensures that it has an optimal pH level, including total alkalinity and mineral content levels.

Step 2 Chlorinate—Chlorinating your pool water properly sanitizes it, killing harmful bacteria and aiding in the control of algae. No. 494P17, 6 and 1 formula tablets control algae and prevents corrosion and scale while killing bacteria. Removes organic contaminants for clear water, making water silky and smooth. Can be used as a skimmer, feeder or floater application.

Step 3 Pool Shock—Skocking formulas have algae killing crystals which controls and kills off green, black, and mustard algae along with bacteria. Reduces chlorine odor and removes swimmer containments such as body oils, sweat, and urine. Shocking the water cleans cloudy water without impacting pH, helping the water stay clear. No. 494P19 is a 6 and 1 formula. No. 494P18 is a 4 and 1 formula and comes in a bag.

Algaecide—Quickly and effectively kills green, mustard, and black pool algae. For use with all pool types.

Remedy—Algaecides stay active in your pool water, with minimal loss of effectiveness due to water temperature, sunlight or swimming use.

Clarifiers are used from time to time when your pool water needs products to clarify and help filtration of fine particles. For instance, if dead algae is present too much calcium or metals can build up in your water.

Description	pH Range	Size	Brand	Item No.	Pkg. Qty.
Water Analysis Kit					
For Bacteria	—	7" x 2½"	Purtest	**1LNW9**	1
For Bacteria	—	7" x 2" x 3"	Purtest	**1LNX1**	10
Step 1 Balance					
Liquid pH Adjuster, Muriatic Acid	Less Than 0	1 gal.	Kem Tek	**34TG60**	42
Step 2 Chlorinate					
Granular Chlorine	3 to 4	40 lb.	Clorox Pool & Spa	**494P17**	1
Liquid Chlorine	10 to 12	1 gal.	Kem Tek	**20KR64**	72
Tablet Chlorine, 3"	2 to 5	35 lb.	Clorox Pool & Spa	**36JT21**	1
Tablet Chlorine, 3"	3 to 5	35 lb.	Clorox Pool & Spa	**36JT22**	1
Step 3 Pool Shock					
Granular Pool Shock	4 to 5	1 lb.	Clorox Pool & Spa	**494P19**	20
Granular Pool Shock	5 to 6	1 lb.	Clorox Pool & Spa	**494P18**	36
Algaecide					
Liquid Algaecide	3 to 4	32 oz.	Clorox Pool & Spa	**494P20**	1
Liquid Algaecide	3 to 4	40 oz.	Clorox Pool & Spa	**494P21**	1
Chlorine Stabilizer, pH Adjuster, Alkalinity & Calcium Increasers					
Granular Chlorine Stabilizer	4.8 to 5.2	4 lb.	Clorox Pool & Spa	**55PK13**	1
Granular pH Adjuster	Less Than 1	5 lb.	Clorox Pool & Spa	**55PK14**	1
Granular pH Adjuster	11.4	4 lb.	Clorox Pool & Spa	**55PK15**	1
Granular Alkalinity Increaser	8.2	5 lb.	Clorox Pool & Spa	**55PK16**	1
Granular Calcium Hardness Increaser	—	5 lb.	Clorox Pool & Spa	**55PK17**	1
Remedy					
Granular Filter Aid	—	24 lb.	Clorox Pool & Spa	**36JT28**	1
Liquid Clarifier	6 to 9	32 oz.	Clorox Pool & Spa	**36JT29**	1
Reagents, Test Strips Water Testing	—	50 Strips	Clorox Pool & Spa	**36JT33**	1



Water Analysis Kit No. 1LNW9



Step 1 Balance No. 34TG60



Step 2 Chlorinate No. 36JT22



Step 3 Pool Shock No. 494P19



Algae Eliminator No. 494P20



Granular Chlorine Stabilizer No. 55PK13



Reagents, Test Strips Water Testing No. 36JT33

Pool Lifts and Accessories

SR Smith

- ADA compliant

Lifts provide access to aquatic environments for both mobility-challenged individuals and seniors. Lifts feature true operational redundancy and can be operated from the control box and the handset. Hi/Lo models can be used for facilities that have both in-ground and above-ground spas and pools. Spa models are designed for above-ground pools and spas up to 48" above the pool deck. Include battery, charger, battery console, and waterproof control.

Note: Deck profile sheet required with order; returns not accepted.

Splash!™—Removable lifting system easily detaches from the stainless steel deck anchor. No. 11Z854 is a CA package which includes arm rests, cover, and spineboard attachment.

PAL® (Portable Aquatic Lift) and PAL2®—Lifts are portable and freestanding while meeting ADA requirements and can be fixed to the deck with optional Pool Lift Wheel-Away Kit No. 16V951, sold separately. Can be conveniently stored when not in use.


No. 11Z855


No. 49XM05


No. 49XL81

Description	Rotation	Weight Cap.	L	W	H	Item No.
SPLASH!™ Series Anchored Pool Lifts						
Aquatic Lift with Armrests	359°	300 lb.	48"	40"	57"	**40L107**
Aquatic Lift with Armrests	359°	300 lb.	87"	20"	77"	**11Z862**
Aquatic Lift with Armrests	359°	400 lb.	76"	20"	67"	**11Z855**
PAL® Lifts						
Pool Lift with Armrests	240°	300 lb.	96"	28"	66"	**11Z848**
PAL® Series Portable Pool Lifts						
Pool Lift CA Package with Armrests	240°	300 lb.	96"	28"	66"	**11Z854**
Hi/Lo Lift with Armrests	240°	300 lb.	86"	28"	91"	**11Z850**
Spa Lift, with Armrests	240°	300 lb.	83"	28"	91"	**11Z852**
PAL2® Series Portable Pool Lifts						
Pool Lift with Armrests	240°	300 lb.	50"	40"	57"	**40L115**
MultiLift™ Anchored Pool Lift						
Pool Lift with Armrests	—	350 lb.	54"	14"	42"	**16V943**

Description	Item No.
Accessories	
LiftOperator Battery	**40L122**
LiftOperator Battery Charger,New Style	**11Z888**
Linak Pool Lift Battery	**11Z874**
Locking Square Deck Anchor w/Cap, SS	**40L120**
Armrest Assembly, For Use with PAL2 & aXs Lifts	**40L119**
Pool Lift Wheel-Away Kit	**16V951**
Covers	
Cover, for PAL, PAL2 and Splash Pool Lifts	**467C91**
Cover, for aXs2 Pool Lift	**467C92**
Cover, for Multilift, ML300 Pool Lifts	**467C93**
Seat Cover, for Seat Saver Lift	**467C95**
Seat and Mast Cover, for Splash Pool Lift	**467C96**
Operator Console Cover, for Lift Operator Consoles	**467C97**
Mast Cover, for Splash Pool Lift	**467C98**
Basketball Game	
RockSolid Basketball Game, Single Post with Anchor, 18" Setback	**49XM05**

Description	Handrail Height	304 SS Item No.	316L SS Item No.
Stair & Hand Rails			
Deck-Mounted Stair Rails			
48" Center Grab Rail, 0.049" Rail Thickness	32 in	**49XL46**	—
48" Center Grab Rail, 0.065" Rail Thickness	32 in	**49XL54**	**49XL55**
51" Center Grab Rail, 0.049" Rail Thickness	32 in	**49XL45**	—
51" Center Grab Rail, 0.065" Rail Thickness	32 in	**49XL51**	**49XL52**
54" Center Grab Rail, 0.049" Rail Thickness	32 in	**49XL49**	**49XL50**
54" Center Grab Rail, 0.065" Rail Thickness	32 in	**49XL58**	**49XL59**
54" Angled Center Grab Rail, 0.049" Rail Thickness	32 in	**49XL47**	**49XL48**
54" Angled Center Grab Rail, 0.065" Rail Thickness	32 in	**49XL56**	**49XL57**
60" Center Grab Rail, 0.065" Rail Thickness	32 in	**49XL53**	—
Hand Rails			
Figure 4, 30" Center Grab Rail, 0.049" Rail Thickness, Pair	32 in	**49XL38**	—
Artisan Hand Rail	34 in	**49XL65**	—
Meridian Hand Rail	36 in	**49XL77**	—
Stair Rails			
3-Bend Stair Rail, 48" Extended Length Front Leg	32 in	**49XL60**	—
Artisan Stair Rail	34 in	**49XL69**	—
Meridian Stair Rail	36 in	**49XL79**	—
Ladders			
3-Step Ladder, 24"W x 66"L	—	**49XL86**	—
Artisan 3-Step Ladder, 24"W x 69"L	—	**49XL71**	—
Meridian 3-Step Ladder, 24"W x 68"L	—	**49XL81**	—

Description	Housing Material	Item No.
Leaf Rakes, Skimmers, Vacuums, Poles & Accessories		
Leaf Rake for Telescopic Poles		
17"H, 1½"W, 17⁹⁄₁₆"L	Plastic	**479M85**
17³⁹⁄₆₄"H, 1½"W, 17½"L	Aluminum	**479M87**
18"H, 2"W, 19½"L	Aluminum	**479M86**
19¹³⁄₁₆"H, 1½"W, 22³⁄₄"L	Aluminum	**479M88**
Leaf Sweeps, Skimmers, Vacuums, Poles & Accessories		
Leaf Sweep for Telescopic Poles		
Brush/Wheel Combination, 15"Dia., 18"H	Plastic	**479N03**
Leaf Rakes, Skimmers, Vacuums, Poles & Accessories		
Leaf Skimmer for Telescopic Poles		
18"H, 1½"W, 13"L	Plastic	**479M83**
21½"H, 1½"W, 15½"L	Aluminum	**479M84**
22⁵⁄₁₆"H, 1½"W, 14¾"L	Plastic	**479M82**
Pool Vacuum for Telescopic Poles, EZ Clip Handle		
1¼" Outlet, 2²⁵⁄₆₄"H, 8⅞"W, 14"L	Plastic	**479M76**
1¼" Outlet, 2½"H, 8⅞"W, 22½"L	Plastic	**479M77**
1¼" Outlet, 4¼"H, 10⅛"W, 11⅞"L	Plastic	**479M75**
Vacuum Hose, Swivel Cuff		
1¼" Dia., 24 ft.L	Plastic	**479M78**
1¼" Dia., 36 ft.L	Plastic	**479M79**
1½" Dia., 40 ft.L	Plastic	**479M80**
1½" Dia., 50 ft.L	Plastic	**479M81**
Telescopic Pole, 2-pc.		
Black/Gray/Anodized, 1¼" Dia., 8 to 16 ft.L	Aluminum	**479M90**
Blue/Gray/Anodized, 1¼" Dia., 6 to 12 ft.L	Aluminum	**479M89**
Black/Gray, 1¼" Dia., 8 to 16 ft.L	Fiberglass	**479M91**
Handle		
EZ Clip Handle, 1¼" Dia., 4½"L	Aluminum	**479N05**
EZ Clip Vacuum Handle, 1¼" Dia., 4½"L	Aluminum	**479N06**
Hanger for Telescopic Poles & Hoses		
³⁄₃₂"W, 3½"L	Aluminum	**479N07**

** Aquafirst brand.*

Description	Housing Material	Item No.
Ladder Bumper for Pool Ladders		
1¼" Dia., 2"H	Rubber	**479N08**
Pool Cleaning		
Pool Brush for Telescopic Poles		
Blended Nylon, Multi Surface PBT Bristles, 2¾"H, 6¾"W, 20"L	Aluminum	**479M96**
Nylon Bristles, 2½"H, 6⅛"W, 18"L	Aluminum	**479M95**
Polypropylene Bristles, 2⅛"H, 6"W,	Aluminum	**479M92**
Stainless Steel Bristles, 2"H, 6½"W, 10"L	Aluminum	**479M94**
Stainless Steel Bristles, 2½"H, 6⅛"W, 18"L	Aluminum	**479M93**
Pumice Stone for Telescopic Poles		
2"W, 5³⁹⁄₆₄"L	Plastic	**479N04**
Stain Remover for Telescopic Poles		
1¼" Dia., 2¹³⁄₃₂"W, 4"L	Plastic	**479N14**
Chemical Dispensers		
For Use With Bromine, Chlorine		
6"H	Plastic	**479M98**
Automatic, 6" Dia. x 21"H	Plastic	**479M99**
Automatic, 6" Dia. x 39"H	Plastic	**479N01**
For Use With Chlorine Tablets 1-3"		
10¹³⁄₃₂"H	Plastic	**479M97**
Floating Thermometer		
Blue/White, 1½" Dia., 7⁹⁄₁₆"H	Plastic	**479N02**
Rope Anchor, Rope Float, Rope Hook, for Rope Float System		
Rope, ¾" Dia., 50 ft.L	Plastic	**479N12**
Rope Anchor, 1½" Dia., 2"H	Stainless Steal	**479N13**
Rope Float, 13½"L	Plastic	**479N11**
Rope Hook		
Rope Hook, 1¼" Dia.	Stainless Steal	**479N10**
Safety Hook		
Safety Hook, 23⅝"L	Aluminum	**479N09**
Robotic Pool Cleaner		
Wall & Floor Cleaner for In-Ground Pools, 50-ft. Cord	—	**34CR03** *


Leaf Rake
No. 479M85


Pool Vacuum
No. 479M76


Telescopic Pole
No. 479M89


Floating Thermometer
No. 479N02


Robotic Pool Cleaner
No. 34CR03

Pool and Spa Accessories

Leaf Rakes—Use a mesh netting to skim the bottom of the pool and remove large types of debris and leaves.

Leaf Skimmer—Designed to smoothly glide over the surface of the pool and collect lose particles. Built with either aluminum or plastic frames with a mesh net.

Pool Vacuums—Use with either concrete/gunite pools or pools with vinyl liner. Built with attached weights to slide on the pool floor and collect debris that has settled.

Vaccuum Hose—Connect to a vacuum head and filter to remove debris from the bottom of the pool.

Telescopic Poles—Connect to multiple tools such as a skimmer or brush and can extended or detract to reach various lengths throughout a pool.

Pool Brushes—Use the bristle appropriate for the type of pool. Brushes sweep the bottom and sides of pools to remove stains.

Robotic Pool Cleaner—Cleans, scrubs, vacuums, and filters in-ground pools. Includes remote control.


No. 45JT44


No. 45JT45


No. 45JT51

Aluminum Bleachers

NRS National Recreation Systems

Feature all aluminum construction. Tip & roll bleachers have swivel casters for movement, and caster brakes keep the bleacher from rolling when stored as well as non-marring rubber footpads to protect wood floors. Always check your local code for bleachers to ensure you are compliant. ADA options are available; go to Grainger.com® and search "ADA Compliant Aluminum Bleachers".

	7½ ft. L		15 ft. L		21 ft. L		24 ft. L	
	Item No.	Seats	Item No.	Seats	Item No.	Seats	Item No.	Seats
3 Rows								
	45JT44	15	45JT45	30	45JT46	42	45JT47	48
3 Rows - Tip & Roll								
	45JT48	15	45JT51	30	45JT52	42	45JT53	48
4 Rows								
	—	—	45JT54	40	45JT55	56	45JT56	64
4 Rows - Tip & Roll								
	45JT57	15	45JT59	40	—	—	—	—
5 Rows								
	—	—	45JT60	50	45JT61	70	45JT62	80


No. 45MJ95


No. 8GDD9


No. 45MK35


No. 45MK39

Bike Lockers and Racks

MADRAX GRAINGER APPROVED

Bike Lockers—Offers maximum security and weather protection for bicycles. Store up to two bikes inside. Padlock (not included) on the handle secures bicycle inside. Lockers are ideal for municipalities and campus settings.

Bike Racks—Bike racks offer a convenient and secure location for bikes. Check local codes when determining space limitation for bike racks.

Item, Color	Holds No. of Bikes	Mounting	L	W	H	Brand	Item No.
Bike Lockers							
Bike Locker, Gray	2	Surface	75"	39"	46"	Madrax	45MJ97
Bike Locker, Mesa Tan	2	Surface	75"	39"	46"	Madrax	45MJ95
Bike Locker, Storm Metallic	2	Surface	75"	39"	46"	Madrax	45MJ96
Bike Racks							
Bike Rack, Galvanized	4	In-Ground	—	31"	34"	GA	9PXM1
Bike Rack, Galvanized	4	Surface	—	31"	34"	GA	8GDD9
Bike Rack, Black	4	Surface	—	31"	34"	GA	9PXM2
Bike Rack, Black	4	Surface	49⅝"	32"	30"	GA	45MK35
Bike Rack, Black	5	Surface	37⅜"	7 1/16"	42½"	GA	45MK39
Bike Rack, Black	9	Surface	112"	32"	30"	GA	45MK37
Single Sided Bike Rack, Black	4	Surface	48"	31¼"	30¾"	Madrax	8Z839
Single Sided Bike Rack, Silver	9	Surface	110"	31¼"	30¾"	Madrax	8ANA7
Double Sided Bike Rack, Black	8	Surface	48"	41¼"	30¾"	Madrax	8Z838
Double Sided Bike Rack, Silver	8	Surface	48"	41¼"	30¾"	Madrax	9U755
Double Sided Bike Rack, Silver	18	Surface	110"	41¼"	30¾"	Madrax	9CKY8


Fanback Armchair No. 6DVH7


Highback Armchair No. 6DVJ7


Ladderback Armchair No. 6DVK2


Stackable Armchair No. 23NR80


Fanback Armchair No. 6DVH7


Highback Armchair No. 6DVJ7


Round Table No. 6DVH0


Chaise Lounge No. 6DVH1


Market Umbrella No. 6DVL7

Commercial-Grade Resin Chairs, Tables, and Umbrellas

Grosfillex

Durable, weather-resistant outdoor furniture is constructed for heavy-duty use in commercial environments. Molded melamine table tops are highly weather-resistant, as well as burn-, heat-, and scratch-resistant, to help minimize maintenance costs. ASTM tested 400-lb. weight capacity meets the high performance standards for nonresidential use. Include manufacturer commercial warranty.

Market Umbrellas—Provide shade and protection from the elements in outside food areas. 2-pc. wooden construction includes corrosion-resistant brass connectors, durable and color-fast canopy acrylic fabric, 8 ribs and a wind vent.

Umbrella Bases—Secure umbrellas to tables. No. 6DVK1 is sand- or water-filled and features a nonmarring resin glide. No. 6DVH3 is cement-filled and features molded anchor bolt holes to secure base to deck. UV-resistant and easy to clean with soap and water.

Type	D	W	H	Color	Weight Cap.	Item No.
Armchairs						
Fanback	23½"	23½"	36"	Sandstone	300 lb.	6DVH7
Fanback	23½"	23½"	36"	White	300 lb.	6DVG9
Highback	24"	23"	34"	Bronze Mist	300 lb.	6DVJ7
Ladder Back	24"	24"	34"	Amazon Green	300 lb.	6DVK2
Stack	22"	20"	35½"	Espresso	300 lb.	23NR80
Stackable	24"	23"	34"	Bronze	300 lb.	49XM58
Bistro Sidechairs						
Highback	20"	17"	35"	White	300 lb.	6DVK4
Chaise Lounges						
Adjustable	75"	27"	12"	White	300 lb.	6DVH1
Side Tables						
Low	17"	17"	15"	Bronze Mist	—	6DVK0
Low	17"	17"	15"	White	—	6DVH2
Tables						
Round	—	—	29"	White	—	6DVH0

Size	Color	Item No.
Market Umbrellas		
7 ft.	Forest Green	6DVL7
7 ft.	Sand	6DVL8
7 ft.	Terra Cotta	49XM79
9 ft.	Forest Green	6DVL9
9 ft.	Terra Cotta	49XM78

For Use With	Color	Item No.
Umbrella Bases		
1½" Umbrellas on 46" Table	White	6DVH3
1½" Umbrellas on 32" and 38" Tables	Black	6DVK1

GA GRAINGER APPROVED

Picnic Tables and Umbrellas

- Ship unassembled

All have easy-to-clean thermoplastic coating that withstands most harsh environments, and eases graffiti removal. Galvanized steel understructure is black powder-coated, with sled-based legs. Expanded metal is 9-ga.; perforated metal is 11-ga. Square, round, and octagonal tables have a 1¾" center hold to accommodate optional umbrella (sold separately).

Description	▶CHOOSE: Color	Item No.
Expanded Metal ADA Picnic Table		
Octagon - 80"W x 62½"D x 29⅝"H	Blue	4HUV7
Oval - 81"W x 63½"D x 29¼"H	Green	4HUP9
Square - 80"W x 75"D x 29⅝"H	Blue, Green	E0149
Expanded Metal Picnic Table		
Octagon - 80"W x 80"D x 29¼"H	Blue, Green	E5616
Round -46"Dia. x 29¼"H	Blue, Green	E0146
Square - 80"W x 80"D x 29⅝"H	Blue, Green	E0148
Rectangle - 72"W x 62"D x 29⅝"H	Blue, Green, Black, Brown	E0150
Perforated Metal Picnic Table		
Round -81"Dia. x 29¼"H	Blue, Green	E5615
Square - 80"W x 80"D x 29⅝"H	Blue, Green	E5614
Rectangle - 72"W x 62"D x 29⅝"H	Blue, Green	E5618
Rectangle - 96"W x 62"D x 29⅝"H	Blue, Green	E5619
Plastic Picnic Table		
Rectangle - 72⅛"W x 57"D x 29"H	Gray	12F621
Rectangle - 72⅛"W x 57"D x 29⅝"H	White	1MDU4
Umbrellas		
For Use With Tables With 2" Holes	Blue, Green	E5620
Umbrella Bases		
For Use With 1½" Umbrellas	Blue, Green	E5621

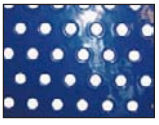

No. E5616


No. E5614


No. E5620


No. E5621


Expanded Metal


Perforated Metal

Description	SILVER Item No.	BROWN Item No.	GREEN Item No.	GRAY Item No.	CEDAR Item No.
Aluminum Picnic Table					
Rectangle - 72"W x 68"D x 30"H	13R061	—	—	—	—
Rectangle - 96"W x 68"D x 30"H	13R062	—	—	—	—
Steel Picnic Table					
Square - 76"W x 76"D x 30"H	—	8MY75	8MY76	9CL76	9RVN2
Steel ADA Picnic Table					
Square - 76"W x 63"D x 30"H	—	8ZA71	9PRY6	8ZA72	8P611
Recycled Plastic Picnic Table					
Hexagon - 72"W x 72"D x 29"H	—	—	45NR20	—	45NR19
Rectangle - 72"W x 56"D x 29"H	—	—	45NR12	45NR11	45NR10
Rectangle - 72"W x 68"D x 30"H	—	13R067	13R069	13R063	13R065
Rectangle - 96"W x 58"D x 29"H	—	—	45NR15	45NR14	45NR13
Rectangle - 96"W x 68"D x 30"H	—	13R068	13R070	13R064	13R066
Recycled Plastic ADA Picnic Table					
Rectangle - 90"W x 58"D x 29"H	—	—	—	—	45NR16

ultra site

Picnic Tables

Rectangular tables feature heavy-duty bolt-through design for added strength. Square tables are available as ADA-accessible, with a 3-seat option.


No. 45NR19


2-Seat
No. 13R069

Mounting	Board Dimensions	Length	Load Rating (lb.)	WOODTONE Item No.	GRAY Item No.	GREEN Item No.	BROWN Item No.
Recycled Plastic With Recycled Plastic Frame Without Backrest							
Portable	2 " x 4 "	72"	3000	45NR04	45NR05	45NR06	—
Portable	2 " x 4 "	96"	4000	45NR07	45NR08	45NR09	—
Recycled Plastic With Recycled Plastic Frame With Backrest							
Portable	2 " x 4 "	72"	3000	45NP91	45NP92	45NP93	—
Portable	2 " x 4 "	96"	4000	45NP94	45NP95	45NP96	—
Portable	2 " x 6 "	72"	3000	45NP98	45NP97	45NP99	—
Portable	2 " x 6 "	96"	4000	45NR02	45NR01	45NR03	—
100% Recycled Plastic With Powder Coated Steel Frame Without Backrest							
Surface	2 " x 4 "	72	900	13R020	13R018	13R024	13R022
Surface	2 " x 4 "	96	1200	13R021	13R019	13R025	13R023
100% Recycled Plastic With Powder Coated Steel Frame With Backrest							
Portable, In-Ground, Surface	2 " x 4 "	72	900	13P999	13P997	13R004	13R002
Portable, In-Ground, Surface	2 " x 4 "	96	1200	13R001	13P998	13R005	13R003
Surface	2 " x 4 "	72	900	13R010	13R008	13R014	13R012
Surface	2 " x 4 "	96	1200	13R011	13R009	13R015	13R013
Portable	2 " x 4 "	72	900	13R006	—	—	—
Portable	2 " x 4 "	96	1200	13R007	—	—	—


No. 45NR04


No. 45NP91

ultra site


No. 13P997

Recycled Plastic Benches

- Ship unassembled

Attractive, weather-resistant planks are made from 100% recycled plastic.


No. E5612


No. E5610

GA GRAINGER APPROVED

Steel Outdoor Benches

- Ship unassembled

11-ga. steel benches have a thermoplastic coating that withstands most harsh environments and eases graffiti removal. Cast-iron legs.

Description	Top Length (in.)	Top W (in.)	▶CHOOSE: Color	Item No.
Expanded Metal with Powder Coated Steel Frame				
With Backrest	72	24	Blue, Green	E0153
With Backrest	74	27½	Blue, Green	E5608
With Backrest	96	24	Blue, Green	E0154
Without Backrest	72	15¼	Blue, Green	E5612
Without Backrest	96	12	Blue, Green	E5613
Perforated Metal with Powder Coated Steel Frame				
With Backrest	72	24	Blue, Green	E5610
With Backrest	96	24	Blue, Green	E5611


No. 45MK03


No. 45MK06


No. 45MK13

Decorative Steel Benches

THOMAS STEELE

Provide visitors a convenient place to rest and offer sturdy seating that is resistant to harsh weather conditions. They are suitable for a number of outdoor environments including parks, gardens, and sidewalks.

Top Length (in.)	Top Width (in.)	Top Height (in.)	Load Rating (lb.)	BLACK Item No.	GREEN Item No.	BLUE Item No.
Surface Mount Flat Hardwood Top						
48"	18¾"	18"	1200	45MK03	45MK04	—
70"	18¾"	18"	1200	45MK07	45MK08	—
Surface Mount Hardwood Top						
66"	24"	33"	1200	45MK05	45MK06	—
Traditional Flat Hard Powder Coated						
49"	20"	25½"	1200	45MK12	45MK13	45MK14
71"	20"	25½"	1200	45MK18	45MK19	45MK20
Traditional Hard Powder Coated						
48"	27½"	33"	1200	45MK09	45MK10	45MK11
71"	27½"	33"	1200	45MK15	45MK16	45MK17



Gray
No. 53GK46



Tan
No. 53GK52



White
No. 53GK48



Ivory
No. 53GL07

KEYSTONE FABRICS

Cordless Pull Down Interior Shades

- Easy-install system
- Include mounting hardware

Cellular shades feature a sturdy PVC headrail design, with cordless operation for child and pet safety. Simply pull the shades down or lift up. The spun lace pattern, polyester fabric helps reduce the harmful effects of ultraviolet (UV) rays on your furniture and flooring. Shades feature color-matched headrails and bottom rails, along with white backing.

Light Blockage	Color	UV Protection	Width 23" Item No.	30" Item No.	31" Item No.	35" Item No.	36" Item No.	48" Item No.	60" Item No.	72" Item No.
Fabric Drop 48" Length										
Blackout	Gray	100%	53GK46	53GK54	53GK62	53GK70	53GK78	53GK86	53GK94	53GL03
	Ivory	100%	—	53GK50	53GK58	53GK66	53GK74	53GK82	53GK90	53GK98
	Tan	100%	—	53GK52	53GK60	53GK68	53GK76	53GK84	53GK92	53GL01
	White	100%	—	53GK48	53GK56	53GK64	53GK72	53GK80	53GK88	53GK96
Light Filtering	Gray	99%	53GK45	53GK53	53GK61	53GK69	53GK77	53GK85	53GK93	53GL02
	Ivory	99%	—	53GK49	53GK57	53GK65	53GK73	53GK81	53GK89	53GK97
	Tan	99%	—	53GK51	53GK59	53GK67	53GK75	53GK83	53GK91	53GK99
	White	99%	—	53GK47	53GK55	53GK63	53GK71	53GK79	53GK87	53GK95

Light Blockage	Color	UV Protection	Width 23" Item No.
Fabric Drop 72" Length			
Blackout	Ivory	100%	53GL07
	Tan	100%	53GL09
	White	100%	53GL05
Light Filtering	Ivory	99%	53GL06
	Tan	99%	53GL08
	White	99%	53GL04



Pole and Crank



Motor with Remote Control Operation

KEYSTONE FABRICS

Exterior Sun Shades

- Easy-install system

Motor with Remote Control Operation, PVC Coated Polyester Yarn—Powered by a 12-ft. AC cord on right side of shade (cannot be moved to left side). A cable system secures shade and helps prevent flapping during light winds. The remote control is a multi-channel remote. Each remote can operate up to five shades. Hardware is oil-rubbed bronze and power cord and remote are white. Fabric comes standard as a reverse roll.

Pole and Crank Operation, PVC Coated Polyester Yarn—A flexible bungee system helps prevent flapping in light wind. Includes a 48" pole (with receiving ring on the right side of the shade). Hardware and crank pole are oil-rubbed bronze. Ring can be moved to the left side of the shade. Fabric comes standard as a forward roll.

▶CHOOSE: Fabric Color (UV Protection)	Valance Included	Overall Width 48" Item No.	72" Item No.	96" Item No.	120" Item No.
Motor with Remote Control Operation, PVC Coated Polyester Yarn, Fabric Drop 96 inL					
Maui (72%), Caribbean (90%), Kona (90%)	Yes	H9761	H9762	H9763	H9764
Pole and Crank Operation, PVC Coated Polyester Yarn, Fabric Drop 96 inL					
Maui (72%), Caribbean (90%), Kona (90%)	Yes	H9765	H9766	H9767	H9768



No. 38YY89



No. 38YY90



No. 38YY94



No. 38YY95

KEYSTONE FABRICS

Exterior Sun Shades Replacement Parts

Item	Item No.
Clutch with Cord, Cream	38YY88
Clutch with Cord, Black	38YY89
Bracket Cover, Cream	38YY90
Bracket Cover, Black	38YY91
Bottom Rail Cap, Cream	38YY92
Bottom Rail Cap, Black	38YY93
Cord Safety Device	38YY94
Bottom Rail Ring	38YY95
Clutch with Cord, 4 ft.	38YY97
Clutch with Cord, 6 ft. 6"	38YY96
Clutch with Cord, 10 ft.	38YY98
Clutch with Cord, 14 ft.	38YY99

enMotion® Motion-Activated Roll Towel and Dispenser Systems

enMotion® motion-activated paper towel systems combine hands-free, touchless hygiene and jam-free performance for state-of-the-art, quiet dispensing with an attractive, sleek design. One-at-a-time automated dispensing helps prevent cross contamination and improves hygiene. Convenient and customizable settings include: delay, sheet length, and dispense mode so hands-free dispensers can be programmed to meet your specific operational needs, while also helping to reduce waste. Each touchless dispenser features a set of batteries with excellent battery life to dispense up to 150 rolls, help reduce maintenance, and improve reliability. They come with a one-time, lifetime sublease agreement from Grainger (see bottom of page), backed by a 10-year warranty from Georgia-Pacific.

enMotion® brand towels are soft, thick, and absorbent. Long-lasting rolls help reduce the time spent filling dispensers. EPA-Compliant, recycled rolls are also available.


No. 3EB46


No. 2XLH5


No. 3EB49

See below for Required Dispenser Sublease Information

10-in Wide enMotion® and enMotion Impulse® Paper Towel Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Disposable, absorbent paper towel rolls are designed to be compatible with corresponding dispensers. Dispensers include 3 sensor range settings and time-delay settings (1, 2, or 3 seconds). All are plastic, surface wall-mount. No. 4HVJ1 is water-resistant for use in washdown or damp areas. Dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 10-in Roll Width								
enMotion®	White	800 ft	Continuous	1 ¾ in	89460	**3EB46**	6	*†**
enMotion®	White	800 ft	Continuous	1 ¾ in	89490	**6RA74**	6	*††
enMotion®	White	800 ft	Continuous	1 ¾ in	89470	**4DJV9**	6	†‡#
enMotion®	Brown	800 ft	Continuous	1 ¾ in	89480	**4ACU1**	6	†‡#†‡

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion®, Plastic	Gray	17 ¼ in	14 ¾ in	9 ½ in	59460A	**3EB48**
enMotion®, Plastic	Black	17 ¼ in	14 ¾ in	9 ½ in	59462A	**3EB49**
enMotion®, Plastic	White	17 ¼ in	14 ¾ in	9 ½ in	59407A	**15F493**
enMotion®, Plastic	Blue	16 ¾ in	14 ¾ in	9 ¾ in	59450	**4HVJ1**
enMotion® Impulse®, Plastic	Gray	14 in	14 ⅝ in	9 ¼ in	59487A	**2XLH4**
enMotion® Impulse®, Plastic	Black	14 in	14 ⅝ in	9 ¼ in	59488A	**2XLH5**
enMotion® Impulse®, Plastic	White	14 in	14 ⅝ in	9 ¼ in	59447A	**15F494**
enMotion® Central AC Kit for Nos. 3EB48, 3EB49 and 15F493					59477A	**449W36**
enMotion® Plug-In AC Power Kit for Nos. 3EB48, 3EB49 and 15F493					59479A	**449W37**

** Sustainable Forest Initiative (SFI)® Certified. † USDA Certified Biobased Product. ‡ ECOLOGO® Certified. # Green Seal® Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 40% Post-Consumer Recycled Content. ‡‡ Contains a Minimum of 50% Post-Consumer Recycled Content.*

8-in Wide enMotion® Flex Paper Towels Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Disposable paper towels dry hands, wipe surfaces, and clean up spills. Hardwound rolls are compatible with corresponding dispensers. Hands-free dispensers offer 99% jam-free dispensing. Dual-roll, auto-switch technology uses the smallest roll available first and uses 100% of the roll before switching to the standby roll to ensure zero waste. The intuitive design makes refilling easy. Automated dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.


No. 444A61


No. 444A58


No. 444A59

See below for Required Dispenser Sublease Information

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width								
enMotion® Flex	White	550 ft	Continuous	1 ⅝ in	89720	**444A61**	6	* **
enMotion® Flex	White	550 ft	Continuous	1 ⅝ in	89730	**444A62**	6	†‡#
enMotion® Flex	Brown	550 ft	Continuous	1 ⅝ in	89740	**444A63**	6	†‡# ††

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion® Flex Wall-Mount, Plastic	Black	20 ⅛ in	13 ⅜ in	8 ⅛ in	59762	**444A58**
enMotion® Flex Recessed Mount, Stainless Steel	Silver	21 ¼ in	13 ⅜ in	8 in	59766	**444A59**
enMotion® Flex Mini Wall-Mount, Plastic	Black	13 ¼ in	11 ¾ in	7 ⅜ in	59798	**444A60**
Flex Accessories						
Central AC Kit for Nos. 444A58, 444A59 and 444A60					59777	**468G40**
Plug-In AC Power Kit for Nos. 444A58, 444A59 and 444A60					59779	**468G41**

** Sustainable Forest Initiative (SFI)® Certified. † USDA Certified Biobased Product. ‡ ECOLOGO® Certified. # Green Seal® Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 50% Post-Consumer Recycled Content.*


No. 5UWL7


No. 2NY13


No. 1LYK3

See below for Required Dispenser Sublease Information

8-in Wide enMotion® and enMotion Impulse® Paper Towel Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Paper towel rolls offer softness and absorbency to dry hands and clean surfaces quickly. Rolls are compatible with corresponding dispensers. Dispensers have adjustable settings and offer 99% jam-free dispensing. All dispensers are plastic, surface wall-mount, except No. 2NY13 is stainless steel, recessed mount. Batteries included. Nos. 2NY14 and 2NY15 are ADA-Compliant trash receptacles for use with No. 2NY13 dispenser. No. 4DB79 is a mounting bracket that quickly converts a facility's existing recessed towel dispenser door to a mounting platform for enMotion wall-mount automated towel dispensers. Motion-activated dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width								
enMotion®—Premium Embossed	White	425 ft	Continuous	1 ½ in	89410	**2NY16**	6	* **
enMotion®	White	700 ft	Continuous	1 ½ in	89420	**3ZJD1**	6	*†**
enMotion®	White	700 ft	Continuous	1 ½ in	89430	**2NY17**	6	*††
enMotion®	Brown	700 ft	Continuous	1 ½ in	89440	**5UWL7**	6	†‡#††

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion® Recessed Mount, Stainless Steel	Silver	16 ⅜ in	13 ¼ in	8 in	59466A	**2NY13**
enMotion® Impulse® Wall-Mount, Plastic	Gray	13 ¾ in	12 ¾ in	8 ⅝ in	59497A	**1LYK3**
enMotion® Impulse® Wall-Mount, Plastic	Black	13 ¾ in	12 ¾ in	8 ⅝ in	59498A	**1LYK4**
enMotion® Impulse® Wall-Mount, Plastic	White	13 ¾ in	12 ¾ in	8 ⅝ in	59437A	**15F495**
Accessories						
enMotion® Trash Can for No. 2NY13—Fits 16" Cavities	Silver	56 in	17 ³⁄₁₆ in	7 ¾ in	59491	**2NY14**
enMotion® Trash Can for No. 2NY13—Fits 12" to 16" Cavities	Silver	60 in	17 ³⁄₁₆ in	8 in	59471	**2NY15**
enMotion® Central AC Kit for No. 2NY13					59477A	**449W36**
enMotion® Plug-In AC Power Kit for No. 2NY13					59479A	**449W37**

** Sustainable Forest Initiative (SFI)® Certified. † USDA Certified Biobased Product. ‡ ECOLOGO® Certified. # Green Seal® Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 50% Post-Consumer Recycled Content.*

Dispenser Sublease Information

Note: The enMotion® towel dispensers, owned by Georgia-Pacific Consumer Products LP (GP), are not available for sale, but are subleased to end user customers by Grainger, an authorized distributor of these products. The Grainger price is therefore a one-time sublease acquisition fee. The sublease requires that only Georgia-Pacific enMotion® products be used in these dispensers. By paying the one-time sublicense fee, you hereby agree to be bound by the sublease. You can review the sublease by visiting Grainger.com® listing for the relevant product.

Pacific Blue Ultra™ Paper Towel Rolls and Dispensers


No. 52RW80


No. 52RW81

- Hardwound rolls

High-capacity paper towel rolls dispense one-at-a-time. Use with compatible proprietary Pacific Blue Ultra motion-activated or pull paper towel dispensers. Motion-activated dispenser offers touchless, hands-free dispensing using infrared sensors. Manual pull dispenser has no buttons, levers, or cranks, eliminating any touch points that would spread germs.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 7 7/8-in Roll Width							
White	1,150 ft	Continuous	1 1/2 in	26491	**52RW79**	3	
Brown	1,150 ft	Continuous	1 1/2 in	26496	**52RW80**	3	*†‡**
White	1,150 ft	Continuous	1 1/2 in	26490	**52RW77**	6	#
Brown	1,150 ft	Continuous	1 1/2 in	26495	**52RW78**	6	*†#**

Dispenser Operation	Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispensers									
Motion Activated	7 7/8 in	1 1/2 in	Plastic	Black	16 in	12 7/8 in	9 in	59590	**52RW81**
Pull	7 7/8 in	1 1/2 in	Plastic	Black	16 in	12 7/8 in	9 3/8 in	59589	**52RW82**

** ECOLOGO® Certified. † Green Seal® Certified. ‡ USDA Certified Biobased Product # Forest Stewardship Council (FSC)® Certified. ** Applicable to LEED Criteria.*

Scott® Control™ Slimroll Paper Towel Rolls and Dispenser


No. 60HV95


No. 60HW01

- Hardwound rolls
- Motion-activated dispenser

Slim paper towel rolls are designed to be used with proprietary Scott Control Slimroll towel dispenser for tight spaces. This touchless, compact dispenser has infrared sensors for hands-free operation.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.
Paper Towel Rolls, 8-in Roll Width						
White	580 ft	Continuous	1 3/4 in	47035	**60HV95**	6 *†

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
8 in	1 3/4 in	Plastic	White	12 3/8 in	11 3/4 in	7 1/4 in	47259	**60HW01**

** Forest Stewardship Council (FSC)® Certified. † ECOLOGO® Certified.*

Scott® Essential™ Paper Towel Rolls and Dispenser


No. 58CK16


No. 60HW02

- Hardwound rolls
- Motion-activated dispenser

Paper towels offer softness and absorbency and fit proprietary Scott Essential dispenser for touchless dispensing. Hands-free dispenser offers more than 120,000 dispenses or about 60,000 hand dries on one set of batteries. Jam-free dispenser minimizes the risk of cross contamination.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.
Paper Towel Rolls, 8-in Roll Width						
White	950 ft	Continuous	1 3/4 in	02001	**58CK16**	6 *†‡

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
8 in	1 3/4 in	Plastic	Black	15 3/4 in	12 3/4 in	9 1/2 in	48860	**60HW02**

** Forest Stewardship Council (FSC)® Certified. † ECOLOGO® Certified. ‡ Contains a minimum of 40% Post-Consumer Recycled Content and a minimum of 50% Pre-Consumer Recycled Content.*

Scott® Pro™ Paper Towel Rolls and Dispenser


No. 42EP38


No. 60HW06

- Hardwound rolls
- Motion-activated dispenser

Paper towel rolls are designed to be used with proprietary Scott Pro dispenser. Provides electronic motion-activated dispensing with the option for an unexposed sheet, which helps keep paper towels clean. This touchless dispenser has infrared sensors for hands-free operation. 99.99% jam-free, dispenses one sheet at a time.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.
Paper Towel Rolls, 7½-in Roll Width						
White	700 ft	Continuous	1 3/4 in	25637	**40AY47**	6 *†‡
White	900 ft	Continuous	1 3/4 in	43959	**42EP51**	6 *†‡
White	1,150 ft	Continuous	1 3/4 in	25702	**42EP38**	6 *†‡

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
7 1/2 in	1 3/4 in	Plastic	Black	16 1/2 in	12 5/8 in	9 1/8 in	34348	**60HW06**

** Forest Stewardship Council (FSC)® Certified. † ECOLOGO® Certified. ‡ Contains a minimum of 40% Post-Consumer Recycled Content and a minimum of 50% Pre-Consumer Recycled Content.*

Center Pull Paper Towel Rolls and Dispensers


No. 1PHJ3


No. 4TH58


No. 22UY42


No. 22LC66

Disposable, absorbent center pull paper towels are used to dry hands, wipe surfaces, and clean up spills. Use rolls with corresponding dispensers.

SofPull® Paper Towel Rolls—SofPull paper towel rolls are designed to be used with proprietary SofPull towel dispensers.

Paper Towel Rolls for Universal Dispenser—Ideal for washroom or workroom.

Proprietary and Universal Dispensers—Center pull paper towel dispensers offer sanitary, contamination-resistant hands-free dispensing eliminating excess paper usage. Wall-mount dispensers are compatible with center pull paper towel rolls.

Ply	Color	Roll Width	Roll Length	Sheet Length	Core Dia.	Number of Sheets	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
SofPull Paper Towel Rolls for Proprietary Dispensers												
1	White	7 3/4 in	700 ft	14 3/4 in	2 3/8 in	567	SofPull®	Georgia-Pacific	28143	**1PHJ3**	4	*
1	White	8 in	186 ft	14 3/4 in	2 3/8 in	324	SofPull®	Georgia-Pacific	28124	**4TH48**	6	*
1	White	7 3/4 in	160 ft	12 in	2 3/8 in	275	SofPull®	Georgia-Pacific	28125	**1FC67**	8	*
Paper Towel Rolls for Universal Dispensers												
1	White	7 1/2 in	1,000 ft	4 1/2 in	—	1000	Tough Guy	Tough Guy	60FG14	**60FG14**	6	
1	White	7 1/2 in	1,000 ft	12 in	3 in	1,000	Pacific Blue Basic™	Georgia-Pacific	44110	**12G818**	6	*
1	White	7 3/4 in	700 ft	15 in	2 3/8 in	560	Tough Guy	Tough Guy	22UY42	**22UY42**	4	‡
2	White	7 7/8 in	600 ft	12 in	2 3/8 in	600	Tough Guy	Tough Guy	22UY44	**22UY44**	4	*†‡
2	White	8 1/4 in	520 ft	12 in	3 in	520	Pacific Blue Select™	Georgia-Pacific	44000	**4CJ91**	6	*

Paper Towel W	Material	Color	H	W	D	Brand	Mfr. Model	Item No.
SofPull® Proprietary Dispensers								
7 3/4 in	Plastic	Gray	10 3/4 in	6 3/4 in	7 1/4 in	Georgia-Pacific	58008	**4TE14**
7 3/4 in	Plastic	Gray	11 1/2 in	10 7/8 in	10 3/8 in	Georgia-Pacific	58201	**4TH58**
7 3/4 in	Plastic	Gray	11 1/2 in	9 1/4 in	8 3/4 in	Georgia-Pacific	58204	**4TH59**
Tough Guy Universal Dispenser								
7 3/4 in	Plastic	Smoke	11 3/8 in	8 7/8 in	9 in	Tough Guy	22LC66	**22LC66**

** Forest Stewardship Council (FSC)® Certified. † Green Seal® Certified. ‡ Contains a Minimum of 50% Post-Consumer Recycled Content.*

Hardwound Paper Towel Rolls and Dispensers

Paper Towel Rolls—All Georgia-Pacific® and Tough Guy® paper towel rolls specifically fit Universal Dispenser No. 4TE15. Kimberly-Clark® paper towel rolls specifically fit Universal Dispenser No. 40AY40.

Universal Dispensers—Help reduce risk of cross-contamination. Large capacity and reserve stub roll feature on No. 4TE15 helps reduce service intervals. Mount directly to wall or with mounting bracket No. 4DB80, sold separately on Grainger.com®.


No. 3JH03


No. 4TE15


No. 42EP52


No. 40AY40

Color	Roll Width	Roll Length	Sheet Length	Core Dia.	Product Series	Ply	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls for Universal Dispensers											
Brown	7 ⅞ in	350 ft	Continuous	1 ⅝ in	Pacific Blue Basic™	1	Georgia-Pacific	26401	**2U231**	12	*†**
Brown	7 ⅞ in	350 ft	Continuous	1 ⅝ in	Tough Guy	1	Tough Guy	38X644	**38X644**	12	††
Brown	7 ⅞ in	800 ft	Continuous	1 ⅝ in	Pacific Blue Basic™	1	Georgia-Pacific	26301	**2U232**	6	***
Brown	7 ⅞ in	800 ft	Continuous	1 ⅝ in	Tough Guy	1	Tough Guy	38X645	**38X645**	6	††
Brown	7 ⅞ in	800 ft	Continuous	2 in	Pacific Blue Basic™	1	Georgia-Pacific	26302	**12G823**	6	* **
White	7 ⅞ in	350 ft	Continuous	1 ⅝ in	Tough Guy	1	Tough Guy	38X642	**38X642**	12	**##
White	7 ⅞ in	350 ft	Continuous	1 ⅝ in	Pacific Blue Select™	2	Georgia-Pacific	28000	**3JH03**	12	*
White	7 ⅞ in	600 ft	4 in	2 in	Tough Guy	1	Tough Guy	60FG12	**60FG12**	12	
White	7 ⅞ in	800 ft	Continuous	1 ⅝ in	Tough Guy	1		38X643	**38X643**	6	††
White	7 ⅞ in	800 ft	Continuous	1 ⅝ in	Pacific Blue Basic™	1	Georgia-Pacific	26601	**4ECN3**	6	†‡
White	7 ⅞ in	800 ft	4 in	2 in	Tough Guy	1	Tough Guy	60FG11	**60FG11**	6	
White	7 ⅞ in	1,000 ft	4 in	2 in	Tough Guy	1		60FG13	**60FG13**	6	
White	7 ⅞ in	1,000 ft	Continuous	1 ⅝ in	Pacific Blue Select™	1	Georgia-Pacific	26100	**1PHH7**	6	*
White	8 in	350 ft	Continuous	1 ⅝ in	Pacific Blue Basic™	1		28706	**4ECN2**	12	*
White	8 in	600 ft	Continuous	1 ¾ in	Scott® Essential™	1	Kimberly-Clark	50606	**42EP52**	6	‡#††
White	8 in	950 ft	Continuous	1 ¾ in	Scott® Essential™	1		02000	**40AY46**	6	‡#††

Dispenser Operation	Paper Towel W	Material	Color	H	W	D	Brand	Mfr. Model	Item No.
Universal Dispensers									
Push Lever	7 ⅞ in	Plastic	Gray	14 ¼ in	12 ½ in	10 ½ in	Georgia-Pacific	54338A	**4TE15**
Pull	8 in	Plastic	Black	16 ⅛ in	12 ⅝ in	10 ¼ in	Kimberly-Clark Professional	09996	**40AY40**

**** Sustainable Forest Initiative (SFI)® Certified. † Green Seal® Certified. ‡ ECOLOGO® Certified. # Forest Stewardship Council (FSC)® Certified. ** Contains a Minimum of 40% Post-Consumer Recycled Content. †† Contains a Minimum of 100% Post-Consumer Recycled Content. ‡‡Contains a Minimum of 40% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content. ## Applicable to LEED Criteria.***

Paper Towel Sheets and Pull Dispensers

Multifold—Interfolded for continuous one-at-a-time dispensing. Eliminates tabbing, tearing, and multiple towel dispensing.

Single-Fold—Sheets are folded in half for one-at-a-time dispensing.

C-Fold—Folded into the shape of a "C" and stacked on top of the other for single sheet dispensing reducing tabbing.

Dispensers—Pull paper towel dispensers are manual operation with no buttons, levers, or cranks to spread germs.


Multifold


Single Fold


C-Fold


No. 4CJ95


No. 1ECK4

Color	Sheet W	Sheet L	No. of Sheets	Ply	Product Series	Mfr. Model	Item No.	Pkg. Qty.	
Multifold Paper Towel Sheets									
Brown	9 ¼ in	9 ½ in	250	1	Pacific Blue Basic™	23304	**2U229**	16	*†**
Brown	9 ¼ in	9 ½ in	250	1	Tough Guy	38C403	**38C403**	16	**
White	7 ¾ in	12 ½ in	175	1	Scott® Pro™ Scottfold	01960	**42EP21**	25	‡#††
White	8 in	10 ¾ in	260	1	Pacific Blue Ultra™	20885	**4NGV6**	10	*
White	8 ⅜ in	9 ½ in	175	1	Tough Guy	60FG16	**60FG16**	16	
White	9 ¼ in	9 ½ in	125	2	Pacific Blue Select™	21000	**3JG98**	16	
White	9 ¼ in	9 ½ in	250	1	Georgia-Pacific Professional	2212014	**39FK92**	8	*
White	9 ¼ in	9 ½ in	250	1	Pacific Blue Basic™	24590	**2U228**	16	*†
White	9 ¼ in	9 ½ in	250	1	Pacific Blue Select™	20389	**6VD82**	16	*
White	9 ¼ in	9 ½ in	250	1	Tough Guy	38C404	**38C404**	16	††
White	10 ¼ in	10 ¾ in	220	1	Pacific Blue Ultra™	20887	**4TH60**	10	*
White	10 ¼ in	10 ¾ in	220	1	Pacific Blue Ultra™ Big Fold®	33587	**3ZJD2**	10	*
Single Fold Paper Towel Sheets									
Brown	9 ¼ in	10 ¼ in	250	1	Pacific Blue Basic™	23504	**4CJ75**	16	*†**
Brown	9 ¼ in	10 ¼ in	250	1	Tough Guy	36P068	**36P068**	16	**
White	9 ¼ in	10 ¼ in	250	1	Pacific Blue Basic™	20904	**5UWN4**	16	*
C-Fold Paper Towel Sheets									
White	9 in	13 in	200	1	Tough Guy	448K96	**448K96**	12	**
White	9 ¼ in	9 ½ in	200	1	Georgia-Pacific Professional	2112014	**39FK91**	6	*
White	10 ¼ in	12 ¾ in	120	2	Pacific Blue Select™	23000	**3JG99**	12	*
White	10 ¼ in	12 ¾ in	200	1	Pacific Blue Select™	20241	**4CJ76**	12	*
White	10 ¼ in	12 ¾ in	240	1	Pacific Blue Basic™	25190	**2U227**	10	*†

Paper Towel Type	Paper Towel W	Material	Color	Cap.	H	W	D	Brand	Mfr. Model	Item No.
Dispensers										
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Steel	Silver	(300) C-Fold, (600) Multifold	15 ½ in	11 ¾ in	4 ⅜ in	Georgia-Pacific	56620	**1CF38**
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Steel	White	(300) C-Fold, (600) Multifold	15 ½ in	11 ¾ in	4 ⅜ in	Georgia-Pacific	56601	**2U234**
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Plastic	Gray	(400) C-Fold, (600) Multifold	15 ⅜ in	11 in	5 ¼ in	Georgia-Pacific	56650A	**4CJ95**
Multifold, C-Fold	9 ¼ in	Stainless Steel	Silver	(200) C-Fold, (350) Multifold	8 in	11 in	4 in	Tough Guy	1ECK3	**1ECK3**
Multifold, C-Fold	9 ¼ in	Stainless Steel	Silver	(400) C-Fold, (525) Multifold	14 ½ in	11 in	4 in	Tough Guy	1ECK4	**1ECK4**
Multifold, C-Fold	9 ¼ in, 12 in	Plastic	Gray	(500) C-Fold, (600) Multifold	14 in	11 ¾ in	5 ⅛ in	Tough Guy	22LC62	**22LC62**
Multifold	7 ⅞ in	Plastic	Black	(438) Scottfold	18 ¾ in	10 ⅝ in	5 ½ in	Kimberly-Clark Professional	39711	**60HW14**
Multifold	9 ¼ in	Steel	White	(400) C-Fold, (525) Multifold	14 ½ in	11 in	4 in	Tough Guy	1ECK7	**1ECK7**
Single Fold	9 ½ in, 10 ¼ in	Steel	White	(500) Single Fold	8 ⅛ in	11 ⅜ in	6 ⅝ in	Georgia-Pacific	56701	**2U693**
Single Fold	9 ¼ in	Stainless Steel	Silver	(400) Single Fold	6 ⅜ in	11 in	5 ¾ in	Tough Guy	1ECK5	**1ECK5**
Single Fold	9 ¼ in	Steel	White	(500) C-Fold, (600) Multifold	6 ⅜ in	11 ⅜ in	5 ¾ in	Tough Guy	22LC61	**22LC61**

**** Sustainable Forest Initiative (SFI)® Certified. † Green Seal® Certified. ‡ Forest Stewardship Council (FSC)® Certified. # ECOLOGO® Certified. ** Contains a Minimum of 50% Post-Consumer Recycled Content. †† Contains a Minimum of 100% Post-Consumer Recycled Content. ‡‡ Contains a Minimum of 40% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content.***

Perforated Paper Towel Rolls and Holder

General purpose towel rolls for everyday jobs. Fit standard paper towel roll holders.

Roll Towels—No. 39FK90 comes in a convenient dispenser case. Pacific Blue Basic™ towels have the same number of towels per case as standard 100-sheet rolls.

Roll Towel Holder—Wall-mount dispenser holds 1 roll of perforated roll towels. Use with roll towels listed below. Chrome-finished steel.


No. 22UY43



No. 39FK90



No. 6RA70


No. 12V373

Color	Roll Width	Roll Length	Sheet Length	No. of Sheets	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Roll Towels										
Brown	11 in	230 ft	8 ¾ in	250	Pacific Blue Basic™	Georgia-Pacific	28290	**4CJ81**	12	*‡
White	9 in	64 ft	11 in	85	Tough Guy	Tough Guy	22UY43	**22UY43**	30	†
White	11 in	60 ft	8 ⅞ in	85	Sparkle Professional Series™	Georgia-Pacific	2717714	**39FK90**	15	*
White	11 in	62 ft	8 ¾ in	85	Pacific Blue Select™	Georgia-Pacific	27385	**5ERE2**	30	*
White	11 in	64 ft	9 in	85	Tough Guy	Tough Guy	60FG15	**60FG15**	15	
White	11 in	230 ft	8 ¾ in	250	Pacific Blue Select™	Georgia-Pacific	27700	**6RA70**	12	*

Paper Towel Type	Paper Towel W	Material	Color	Capacity	H	W	D	Brand	Mfr. Model	Item No.
Roll Towel Holder										
Perforated Roll	11 in	Steel	Silver	(1) Roll	3 in	13 ¼ in	4 ¾ in	Georgia-Pacific	52720	**12V373**

**** Sustainable Forest Initiative (SFI)® Certified. † Contains a Minimum of 50% Post-Consumer Recycled Content.***
‡ Contains a Minimum of 40% Post-Consumer Recycled Content.



No. 38TL02



Towels
No. 38TL03

Ligature-Resistant Pull Paper Towel Dispensers and Sheets

- 1 ply sheets

Manual dispensers withstand damage and prevent vandalism, abuse, or potential for self-harm or suicide in behavioral or mental health facilities where antiligature or security products are required. Durable stainless steel dispensers mount securely. **No. 38TL02** features 5 year warranty against vandalism and locks with a stainless steel circular keyway cam lock that can't be picked or clogged with gum. **No. 55AF65** has a 1 year warranty and includes mounting hardware.

Paper Towel Type	Color	Paper Towel W	Sheet W	Sheet L	No. of Sheets	Product Series	Brand	Item No.	Pkg. Qty.	
Paper Towel Dispensers										
Multifold		4 in	(350) Multifold		10 in	4 ½ in	4 in	Ops	**38TL02**	
C-Fold		10 ¼ in	(½ Ream) C-Fold		13 ¾ in	4 in	2 ½ in	Bestcare	**55AF65**	
Paper Towel Sheets for Dispenser No. 38TL02										
Multifold	White	4 in	9 in		250	OPS®	Ops	**38TL03**	32	
Paper Towel Sheets for Dispenser No. 55AF65										
C-Fold	White	10 ¼ in	12 ¾ in		240	Pacific Blue Basic™	Georgia-Pacific	**2U227**	10	*†

***** Sustainable Forest Initiative (SFI)® Certified. † Green Seal® Certified.***

Facial Tissues and Dispenser



No. 2KRF3



No. 42EN78



No. 42EN76



No. 42EN83



No. 22UY40



No. 1ECK6

- 2- or 3-ply tissues are gentle on skin and reduce spread of germs

Product Series	Sheet Size	Ply	No. of Sheets	Box Type	Brand	Item No.	Pkg. Qty.	
Facial Tissues								
Angel Soft Professional Series®	7 ¾ in x 8 ¾ in	2	96	Cube		**2KRF3**	36	*†
Angel Soft Ultra Professional Series®	7 ½ in x 8 ½ in	2	96	Cube	Georgia-Pacific	**39FK87**	10	*
	7 ½ in x 8 ½ in	2	96	Cube		**5ERE5**	36	*
Envision®	8 in x 8 in	2	85	Cube		**4DJV5**	36	*†
Kleenex® Anti-Viral	8 in x 8 in	3	60	Cube		**42EN78**	12	
Kleenex® Comfort Touch	7 ¾ in x 8 ¼ in	2	95	Cube	Kimberly-Clark Professional	**42EN74**	36	‡
	7 ¾ in x 8 ¼ in	2	95	Cube		**42EN75**	36	‡
Kleenex® Naturals	7 ¾ in x 8 ¼ in	2	95	Cube		**42EN76**	36	†‡
Preference®	7 ¾ in x 8 ¾ in	2	100	Cube	Georgia-Pacific	**4DJV4**	36	*†
Tough Guy	8 in x 8 in	2	100	Cube	Tough Guy	**22UY41**	36	†
Angel Soft Professional Series®	5 ½ in x 7 ¼ in	2	50	Flat		**10F287**	60	*†
Professional Series®	7 ¾ in x 8 ¾ in	2	100	Flat		**1FC57**	30	*†
Angel Soft Ultra Professional Series®	7 ½ in x 8 ¾ in	2	125	Flat	Georgia-Pacific	**39FK88**	10	*
	8 ½ in x 7 ¾ in	2	125	Flat		**5ERE4**	30	*
Envision®	8 in x 8 ¼ in	2	100	Flat		**2U250**	30	*†
Kleenex® Comfort Touch	7 ¾ in x 8 ¼ in	2	100	Flat	Kimberly-Clark Professional	**42EN83**	36	‡
Preference®	7 ¾ in x 8 ¾ in	2	100	Flat	Georgia-Pacific	**2U251**	30	*†
Tough Guy	8 in x 8 in	2	100	Flat	Tough Guy	**22UY40**	30	†

Description	Cap.	H	W	D	Brand	Item No.
Facial Tissue Dispenser						
Flat Box Stainless Steel Tissue Dispenser	(100) Sheets	2¾"	11¼"	5½"	Tough Guy	**1ECK6**

***** Sustainable Forest Initiative (SFI)® Certified. † Contains a Minimum of 10% Post-Consumer Recycled Content. ‡ Forest Stewardship Council (FSC)® Certified.***



No. 4TH42



No. 4DJU5



No. 32GV92



No. 1LYJ7



No. 3APV5

Ply	No. of Sheets	Roll Dia.	Product Series	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
1	3,000	5 ¾ in	Compact®	19374	**1LYJ5**	18	*†#
2	750	4 ¾ in	Angel Soft Professional Series®Compact®	1937300	**32GV94**	12	#
2	750	4 ¾ in		19371	**3APV7**	36	#
2	1,000	4 ¾ in	Compact®	19375	**4TH42**	36	*†‡
2	1,125	5 ¾ in	Angel Soft Professional Series®Compact®	19372	**3APV8**	18	#
2	1,500	5 ¾ in	Compact®	19378	**1FC17**	18	‡

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	Product Series	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Stainless Steel	Gray	5 ¾ in	Compact®	7 ⅛ in	10 ⅛ in	6 ¾ in	56796A	**4DJU5**
(2) Rolls	Stainless Steel	Silver	5 ¾ in		7 ⅛ in	10 ⅛ in	6 ¾ in	56798	**32GV90**
(2) Rolls	Plastic	Gray	5 ¾ in		7 ⅛ in	10 ⅛ in	6 ¾ in	56783A	**1FC63**
(2) Rolls	Plastic	Black	5 ¾ in		7 ⅛ in	10 ⅛ in	6 ¾ in	56784A	**4TH54**
(2) Rolls	Plastic	White	5 ¾ in		7 ⅛ in	10 ⅛ in	6 ¾ in	56797A	**15F489**
(2) Rolls	Plastic	Smoke	5 ¾ in		8 ⅜ in	12 ¼ in	12 ⅜ in	5679500	**32GV93**
Quad Wheel									
(4) Rolls	Plastic	Blue	5 ¾ in	Compact®	13 in	14 in	5 ½ in	56787	**32GV91**
(4) Rolls	Plastic	Smoke	5 ¾ in		13 in	14 in	5 ½ in	56788	**32GV92**
Vertical Double Roll									
(2) Rolls	Stainless Steel	Silver	5 ¾ in	Compact®	13 ½ in	6 in	6 ½ in	56782	**1LYJ6**
(2) Rolls	Plastic	Gray/Blue	5 ¾ in		13 ½ in	6 in	7 in	56789	**1LYJ7**
(2) Rolls	Plastic	Black	5 ¾ in		13 ½ in	6 in	6 ½ in	56790A	**1LYJ8**
(2) Rolls	Plastic	White	5 ¾ in		11 ⅞ in	6 ⅜ in	6 ⅝ in	56767A	**15F490**
Vertical Quad Roll									
(4) Rolls	Stainless Steel	Gray	5 ¾ in	Compact®	13 ¼ in	11 ¾ in	6 ⅞ in	56746A	**4DJU4**
(4) Rolls	Stainless Steel	Silver	5 ¾ in		13 ½ in	6 in	6 ½ in	56748	**32GV89**
(4) Rolls	Plastic	Blue	5 ¾ in		13 ¼ in	11 ¾ in	6 ⅞ in	56743A	**3APV6**
(4) Rolls	Plastic	Smoke	5 ¾ in		13 ¼ in	11 ¾ in	6 ⅞ in	56744A	**3APV5**
(4) Rolls	Plastic	White	5 ¾ in		13 ¼ in	11 ¾ in	6 ⅞ in	56747A	**15F491**

Compact® Coreless Toilet Paper and Dispensers

TOILET PAPER ROLLS
Coreless design eliminates stub roll waste. Poly package reduces inventory space and provides easier product storage than corrugated boxes.

TOILET PAPER DISPENSERS
Covered design fits any decor and allows one-at-a-time roll usage, while protecting the spare roll.

TOILET PAPER ADAPTER SPINDLES
Cost-effective way to double tissue capacity using your existing standard-size dispenser.

Product Series	Dispenser Configuration	Material	Mfr. Model	Item No.	Pkg. Qty.
Toilet Paper Adapter Spindles					
Compact®	Bobrick Vertical Drop Down	Plastic	50011	**32PH96**	2
Compact®	ASI Vertical Drop Down	Plastic	50012	**32PH97**	2
Compact®	Horizontal Single Roll	Plastic	50030	**32PH98**	2

***** Green Seal® Certified. † USDA Certified Biobased Product. ‡ ECOLOGO® Certified.***
Sustainable Forest Initiative (SFI)® Certified.



No. 42EN44



No. 60HV77



No. 60HV79



No. 60HV80

Scott® Coreless Toilet Paper and Dispensers

Bathroom toilet paper rolls are used in high-traffic restrooms with compatible proprietary dispensers to help reduce waste by using all of the bathroom tissue roll preventing cardboard tube litter.

No. of Sheets	Roll Dia.	Product Series	Ply	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
Coreless							
800	5 ⅛ in	Scott®	2	07001	**42EN44**	36	*#
1,000	5 ⅛ in	Essential™	2	04007	**42EN41**	36	*†‡
Small Core							
1,100	5 ⅛ in	Scott® Pro™	2	47305	**60HV77**	36	*†‡

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	Product Series	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Plastic	Smoke	5 ¼ in	Scott® Essential™	7 ⅝ in	11 in	6 in	09604	**60HV79**
Vertical Quad Roll									
(4) Rolls	Plastic	Black	5 ¼ in	Scott® Pro™	12 ¾ in	11 ¼ in	6 ¼ in	44518	**60HV80**
(4) Rolls	Plastic	Silver	5 ¼ in		12 ¾ in	11 ¼ in	6 ¼ in	44519	**60HV81**

***** Forest Stewardship Council (FSC)® Certified. † ECOLOGO® Certified. ‡ Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content. # Contains a Minimum of 20% Post-Consumer Recycled Content.***


No. 40AY49


No. 4TE17


No. 4DJV2


No. 1CF35

Kimberly-Clark PROFESSIONAL | GP PRO | TOUGH GUY

Standard Core Toilet Paper Rolls and Dispensers

Standard-size toilet paper rolls fit double roll dispensers, holders, and spindles.


No. 506K73


No. 3P914

Ply	No. of Sheets	Roll Dia.	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls								
1	170	4 ½ in	Cottonelle®	Kimberly-Clark Professional	12456	**60HV78**	48	*
1	550	4 ¾ in	Envision®	Georgia-Pacific	19881/01	**1LYJ9**	80	†
1	1,000	4 ¼ in	Tough Guy	Tough Guy	38C406	**38C406**	48	‡††
1	1,000	4 ¼ in			31TW74	**31TW74**	96	‡††
1	1,210	4 ¾ in	Envision®	Georgia-Pacific	14580/01	**4TE16**	80	†‡
1	1,500	5 ⅜ in			14448/01	**2ZRU6**	48	†**
2	400	4 ⅞ in	Angel Soft Ultra Professional Series™		1632014	**39FK93**	20	†
2	400	4 ⅞ in	Angel Soft Professional Series®		16560	**5ERE6**	60	†**
2	400	4 ⅞ in			16620	**10F286**	20	†
2	450	4 ⅞ in			16880	**10F284**	80	†
2	450	4 ⅞ in			16840	**10F285**	40	†
2	450	4⅝ in	Tough Guy	Tough Guy	60FG17	**60FG17**	60	
2	451	4 ¾ in	Cottonelle®	Kimberly-Clark Professional	17713	**40AY49**	60	* **
2	500	4 ¼ in	Tough Guy	Tough Guy	38C405	**38C405**	48	‡††
2	500	4 ¼ in			31TW73	**31TW73**	96	‡††
2	506	4 ⅜ in	Scott® Essential™	Kimberly-Clark Professional	13217	**42EN55**	80	*†‡
2	550	4 ¾ in	Preference®	Georgia-Pacific	18280/01	**2TRN8**	80	†
2	550	4 ¾ in			18240/01	**4DJV1**	40	†
2	550	4 ¾ in	Envision®		19880/01	**4TE17**	80	†‡#
2	550	4 ¾ in	Scott® Essential™	Kimberly-Clark Professional	04460	**40AY51**	80	*# ##
2	1,000	5 ¾ in	Envision®	Georgia-Pacific	19448/01	**6UUJ8**	48	

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Brand	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Steel	Silver	4 ¾ in	6 in	10 in	6 ¼ in	Georgia-Pacific	57320	**2U257**
(2) Rolls	Plastic	Smoke	—	6 ½ in	10 ¾ in	4 ⅞ in	Tough Guy	22LC64	**22LC64**
(2) Rolls	Plastic	Smoke	4 ¾ in	8 ⅝ in	13 ⅜ in	5 ¾ in	Georgia-Pacific	59206	**4DJV2**
Vertical Double Roll									
(2) Rolls	Stainless Steel	Silver	4 ½ in	12 in	6 in	6 ¾ in	Tough Guy	—	**1ECJ9**
(2) Rolls	Stainless Steel	Silver	4 ¾ in	12 ¾ in	7 in	6 ¼ in	Georgia-Pacific	57893	**1CF35**
(2) Rolls	Plastic	Black	4 in	13 ⅝ in	6 in	6 ⅝ in	Kimberly-Clark Professional	09021	**506K73**

Holder Style	Dispenser Material	Finish	Color	Brand	Item No.
Toilet Paper Holders					
Double Post	Zamac	Polished	Silver	Tough Guy	**3P895**
Double Post	Zamac	Polished	Silver	Tough Guy	**5W552**
Triple Post	Stainless Steel	Satin	Silver	Tough Guy	**4YRE4**
Triple Post	Zamac	Polished	Silver	Tough Guy	**3P914**

Color	Brand	Item No.
Standard Toilet Paper Roll Spindles		
White	Tough Guy	**3ZHT6**
Silver	Tough Guy	**3ZHT8**

**** Forest Stewardship Council (FSC)® Certified. † Sustainable Forest Initiative (SFI)® Certified. ‡ Green Seal® Certified. # ECOLOGO® Certified. ** Contains a Minimum of 20% Post-Consumer Recycled Content. †† Contains a Minimum of 100% Post-Consumer Recycled Content. ‡‡ Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 100% Pre-Consumer Recycled Content. ## Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content.***


No. 1PHJ2


No. 42EN65


No. 245DE3


No. 1ECK1


No. 22LC63

Kimberly-Clark PROFESSIONAL | GP PRO | TOUGH GUY

Jumbo Core Toilet Paper Rolls and Dispensers

Jumbo rolls reduce maintenance time by making the need for refills less frequent.


No. 4DJU7

Ply	Roll Length	Roll Dia.	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls								
1	2,000 ft	8 ¾ in	Scott® Essential™	Kimberly-Clark Professional	07223	**42EN49**	12	‡#††
1	2,000 ft	9 in	Pacific Blue Basic™	Georgia-Pacific	13718	**1PHJ1**	8	*
1	2,000 ft	9 in	Tough Guy	Tough Guy	31KY15	**31KY15**	12	†**
1	2,000 ft	9 in			36P063	**36P063**	8	†**
1	4,000 ft	12 in			31KY18	**31KY18**	6	†**
2	750 ft	9 in			31KY16	**31KY16**	12	†**
2	750 ft	9 in			36P067	**36P067**	8	†**
2	1,000 ft	9 in			60FG18	**60FG18**	12	
2	1,000 ft	9 in	Envision®	Georgia-Pacific	12798	**1PHJ2**	8	†
2	1,000 ft	9 in	Tough Guy	Tough Guy	31KY17	**31KY17**	12	†**
2	1,000 ft	9 in			36P064	**36P064**	8	†**
2	1,000 ft	9 in	GP Georgia-Pacific Professional Series®	Georgia-Pacific	2172114	**39FK94**	4	*
2	1,000 ft	9 ⅜ in	Scott® Essential™	Kimberly-Clark Professional	07805	**40AY50**	12	‡#††
2	1,000 ft	9 ⅜ in			67805	**42EN65**	12	‡#‡‡
2	2,000 ft	12 in	Tough Guy	Tough Guy	36P066	**36P066**	6	†**
2	2,000 ft	12 in	Pacific Blue Basic™	Georgia-Pacific	13102	**4KT77**	6	*

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Brand	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(1) Roll w/ Stub Roll	Plastic	Smoke	9 ⅜ in	13 ⅞ in	16 in	5 ¾ in	Kimberly-Clark Professional	09507	**245DE3**
(1) Roll w/ Stub Roll	Plastic	Smoke	10 ⅝ in	14 ⅛ in	6 ⅜ in	16 ⅞ in	Georgia-Pacific	58150	**4KT90**
(1) Roll w/ Stub Roll	Plastic	Smoke	12 in	16 ¾ in	21 ½ in	5 ⅞ in		59350	**4CJ96**
(2) Rolls	Stainless Steel	Silver	9 in	10 ¾ in	20 ½ in	4 ⅞ in	Tough Guy	—	**1ECK1**
(2) Rolls	Plastic	Smoke	9 in	11 ⅞ in	20 ¼ in	4 ¾ in		22LC65	**22LC65**
(2) Rolls	Plastic	Smoke	9 in	12 ¼ in	20 in	5 ½ in	Georgia-Pacific	59210	**4DJU8**
(2) Rolls	Plastic	Black	9 ⅜ in	13 ⅛ in	20 ½ in	5 ¾ in	Kimberly-Clark Professional	09551	**506K76**
Horizontal Single Roll									
(1) Roll	Stainless Steel	Silver	9 in	10 ¾ in	10 ¾ in	4 ½ in	Georgia-Pacific	59448	**32PH99**
(1) Roll	Stainless Steel	Silver	9 in	10 ¾ in	10 ¾ in	4 ¾ in	Tough Guy	—	**4YRE5**
(1) Roll	Stainless Steel	Silver	12 in	12 ⅞ in	12 ⅝ in	4 ⅞ in		—	**4YRE6**
(1) Roll	Stainless Steel	Silver	12 in	14 ¼ in	4 ½ in	14 ¼ in	Georgia-Pacific	59449	**35MT06**
(1) Roll	Plastic	Smoke	9 in	11 ¼ in	10 ⅝ in	5 ⅜ in		59009	**4DJU7**
(1) Roll	Plastic	Smoke	9 in	11 ½ in	11 ⅝ in	5 ⅜ in	Tough Guy	22LC63	**22LC63**
(1) Roll	Plastic	Smoke	12 in	14 ¼ in	13 ⅝ in	5 ¾ in	Georgia-Pacific	59012	**4DJU9**
(1) Roll	Plastic	Smoke	12 in	15 ⅜ in	14 ½ in	5 ⅛ in	Tough Guy	—	**4YRE3**

**** Sustainable Forest Initiative (SFI)® Certified. † Green Seal® Certified. ‡ Forest Stewardship Council (FSC)® Certified. # ECOLOGO® Certified. ** Contains a Minimum of 100% Post-Consumer Recycled Content. †† Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content. ‡‡ Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 100% Pre-Consumer Recycled Content.***

SofPull® Center Pull Toilet Paper Rolls and Dispensers

GP PRO

Center pull, one-at-a-time dispensing using double- or single-roll dispensers.

No. of Sheets	Roll Dia.	Product Series	Ply	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
500	5 ⅛ in	SofPull®	2	19516	**32GV95**	16	*†‡#
1,000	8 ⅛ in	SofPull®	2	19510	**19YA04**	6	*†‡#

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers								
Horizontal Double Roll								
(2) Rolls	Plastic	Smoke	5 ⅞ in	9 in	16 ⅛ in	7 in	56516	**32GV86**
(2) Rolls	Plastic	White	5 ⅞ in	9 in	16 ⅛ in	7 in	56518	**32GV88**
(2) Rolls	Plastic	Blue	8 ⅛ in	10 ¾ in	20 ⅛ in	7 in	56508	**15F499**
(2) Rolls	Plastic	Smoke	8 ⅛ in	10 ¾ in	20 ⅛ in	7 in	56509	**15F501**
Horizontal Single Roll								
(1) Roll	Plastic	Smoke	5 ⅞ in	9 in	8 ¾ in	7 in	56513	**32GV83**
(1) Roll	Plastic	White	5 ⅞ in	9 in	8 ¾ in	7 in	56515	**32GV85**
(1) Roll	Plastic	Blue	8 ⅛ in	10 ½ in	10 ½ in	6 ¾ in	56500	**5UWL9**
(1) Roll	Plastic	Smoke	8 ⅛ in	10 ½ in	10 ½ in	6 ¾ in	56501	**5UWN0**
(1) Roll	Plastic	White	8 ⅛ in	11 in	7 ⅜ in	11 ¼ in	56507	**15F492**

**** Sustainable Forest Initiative (SFI)® Certified. † USDA Certified Biobased Product. ‡ ECOLOGO® Certified. # Green Seal® Certified.***


No. 19YA04


No. 15F501



No. 5UWL9

General Purpose Dry Wipes

Dry wipes absorb spills, clean messes, and dust surfaces. Use as an alternative to cloth towels to help prevent cross-contamination and to paper towels for added strength. Wipes come with different levels of absorbency and strength.

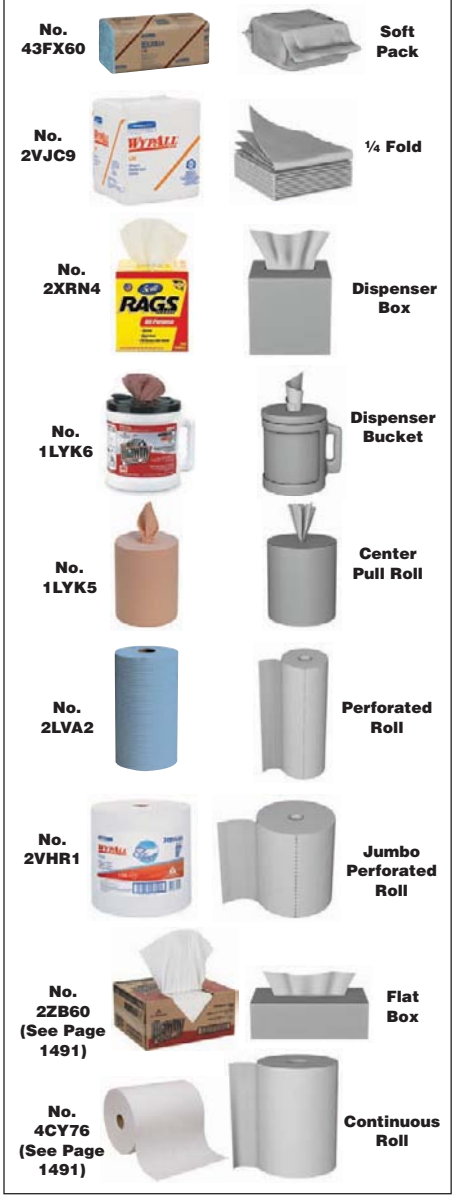
Light-Duty Small Task Wipes—Single-use task wipes are commonly used to clean smaller spills and messes on glass and smooth surfaces.

Medium-Duty Routine Task Wipes—Wipes have a cloth-like softness for cleaning and polishing, as well as wiping hands and faces.

Heavy-Duty Large Task Wipes—Clean large surface areas on equipment and in vehicles. Disposable, absorbent alternative to economy rags.

Extra Heavy-Duty Repeat Task Wipes—Resistant to harsh cleaning agents, these wipes can be used many times before discarding. Use on abrasive surfaces to clean up oil, dirt, and grime. An alternative to premium rags and shop towels.

Dispensing Forms



Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.	
Light-Duty Small Task Wipes									
¼ Fold									
Heavy	Good	Brawny® Professional P200	13 in x 13 in	50	Brown	29922	**4ZA81**	12	*†
Heavy	Good		13 in x 13 in	80	White	29000	**1WH75**	12	
Heavy	Good	WYPALL L20	12 in x 12½ in	68	Tan	47000	**2VHV5**	12	
Heavy	Good		12½ in x 14½ in	68	Tan	47011	**36VC07**	1	
Heavy	Good		12 in x 12½ in	68	White	47022	**2VHV6**	12	
Dispenser Box									
Heavy	Good	Brawny® Professional P200	9¼ in x 16¾ in	80	Brown	29971	**6RA65**	10	
Heavy	Good		9¼ in x 16½ in	166	White	29050/03	**6YE63**	5	
Heavy	Good	WYPALL L20	12½ in x 16¾ in	176	White	34607	**2VHV4**	1	
Light	Fair	Brawny® Professional P100	8 in x 12½ in	148	Brown	29222	**6EMX9**	20	*†
Light	Fair		8 in x 12½ in	148	White	29221	**4ACU4**	20	
Light	Fair	WYPALL L10	9 in x 10¼ in	125	White	05320	**2VHV2**	18	
Light	Fair		10¼ in x 12 in	125	White	05322	**2VHV3**	18	
Soft Pack									
Light	Fair	WYPALL L10	9¼ in x 10½ in	140	Blue	05120	**43FX60**	16	
Medium-Duty Routine Task Wipes									
¼ Fold									
Super Heavy	Good	Brawny® Professional A400	13 in x 13 in	50	Blue	29223	**2U259**	8	
Super Heavy	Good		13 in x 13 in	50	White	29215	**4CJ84**	16	
Super Heavy	Good	Brawny® Professional D400	12½ in × 13 in	65	Oatmeal	20000	**4XFW1**	18	
Super Heavy	Good	Tough Guy G40	12 in x 12½ in	56	White	52WY25	**52WY25**	18	
Super Heavy	Good	WYPALL L40	12 in x 12½ in	56	Blue	05776	**2VJC6**	12	
Super Heavy	Good		12 in x 12½ in	56	White	05701	**2VJC4**	18	
Moderate	Good	WYPALL L30	12 in x 12½ in	90	White	05812	**2VJC9**	12	
Dispenser Box									
Super Heavy	Good	Brawny® Professional A400	9¼ in x 16¾ in	66	White	29290/03	**6YE62**	10	
Super Heavy	Good	Brawny® Professional D400	9¼ in x 16 in	90	Orange	20072	**6RA66**	10	
Super Heavy	Good		9¼ in x 16 in	90	White	20070/03	**6YE60**	10	
Super Heavy	Good		9¼ in x 12 in	120	Oatmeal	20077	**4XFW2**	10	
Super Heavy	Good		12½ in x 16¼ in	152	White	20080/03	**6YE61**	1	
Super Heavy	Good	Scott Rags In A Box	10 in x 12 in	200	White	75260	**2XRN4**	1	
Super Heavy	Good	Tough Guy G40	9 in x 16½ in	90	White	32KL15	**32KL15**	5	
Super Heavy	Good		9 in x 15 in	200	White	39M982	**39M982**	1	
Super Heavy	Good		9 in x 12 in	200	Blue	32RT57	**32RT57**	1	
Super Heavy	Good	WYPALL L40	9¾ in x 16½ in	100	White	05790	**2VJC7**	1	
Super Heavy	Good		9¾ in x 16½ in	100	Blue	05740	**2VJC5**	9	
Super Heavy	Good		10 in x 10¾ in	90	White	03046	**2LUZ3**	9	
Moderate	Good	Brawny® Professional A300	9¼ in x 12¼ in	128	White	29518	**29PJ05**	10	
Moderate	Good	Brawny® Professional D300	9¼ in x 16 in	110	White	20075	**6RA67**	10	
Moderate	Good	WYPALL L30	9¾ in x 16½ in	120	White	05816	**2VJD1**	1	
Moderate	Good		9¾ in x 16½ in	100	White	05800	**2LUZ5**	8	
Moderate	Good		9¾ in x 10 in	120	White	03086	**2LUZ4**	10	
Dispenser Bucket									
Super Heavy	Good	Brawny® Professional D400	10 in x 13 in	200	Orange	20040	**1LYK6**	2	
Center Pull Roll									
Super Heavy	Good	Brawny® Professional D400	10 in x 13 in	200	Orange	20041	**1LYK5**	2	
Super Heavy	Good		7¾ in x 13¼ in	260	White	20050	**4WK83**	4	
Moderate	Good	Brawny® Professional A300	9 in x 13¼ in	50	White	44500	**4CJ92**	6	
Moderate	Good	Brawny® Professional D300	10 in x 13 in	300	White	20045	**2EAW9**	2	
Moderate	Good	WYPALL L30	9¾ in x 15¼ in	300	White	05820	**36VC05**	2	
Jumbo Perforated Roll									
Super Heavy	Good	Brawny® Professional D400	9¾ in x 13¼ in	800	White	20060	**5JG36**	1	
Super Heavy	Good	Tough Guy G40	9 in x 15 in	800	White	39M983	**39M983**	1	
Super Heavy	Good	WYPALL L40	12½ in x 13½ in	750	White	05007	**2VJC3**	1	
Moderate	Good	WYPALL L30	12½ in x 13¼ in	950	White	05841	**2VJD2**	1	
Heavy-Duty Large Task Wipes									
¼ Fold									
Moderate	Better	WYPALL X60	11 in x 23 in	100	White	34770	**2LUZ6**	9	
Moderate	Better		12 in x 12½ in	76	White	34865	**2LUZ7**	12	
Dispenser Box									
Moderate	Better	Brawny® Industrial H600	9 in x 16½ in	148	White	29318	**29PJ03**	10	
Moderate	Better	Brawny® Professional H600	9 in x 12½ in	200	White	29316	**29PJ01**	10	
Moderate	Better	Tough Guy G60	9 in x 16¾ in	126	White	52WY22	**52WY22**	1	
Moderate	Better	WYPALL X60	9 in x 16¾ in	126	White	34790	**2VHP9**	10	
Light	Good	WYPALL X50	9 in x 12½ in	176	White	83550	**2VHU2**	10	
Perforated Roll									
Moderate	Better	Tough Guy G60	11 in x 13 in	800	White	52WY23	**52WY23**	1	
Moderate	Better	WYPALL X60	9¾ in x 13½ in	130	Blue	35431	**2LVA2**	6	
Moderate	Better		9¾ in x 13½ in	130	White	35421	**2LVA1**	6	
Moderate	Better		9¾ in x 13½ in	130	White	35401	**2LUZ8**	12	
Moderate	Better		9¾ in x 13½ in	130	Blue	35411	**2LUZ9**	12	
Jumbo Perforated Roll									
Moderate	Better	Brawny® Professional H600	6¾ in x 9½ in	1,776	White	29317	**29PJ02**	1	
Moderate	Better	WYPALL X60	12½ in x 13½ in	1,100	White	34955	**2VHR1**	1	
Moderate	Better		12½ in x 13½ in	1,100	Blue	34965	**2VHR2**	1	
Light	Good	WYPALL X50	9¾ in x 13 in	1,100	White	35015	**2VHR4**	1	
Extra Heavy-Duty Repeat Task Wipes									
¼ Fold									
Maximum	Superior	Tough Guy G100	15 in x 17 in	50	White	52WY21	**52WY21**	5	
Super Heavy	Excellent	WYPALL X80	12 in x 12½ in	50	White	41026	**2VHT4**	4	
Super Heavy	Excellent		12 in x 12½ in	50	Red	41029	**2VHT5**	4	
Heavy	Best	Brawny® Professional H700	12½ in x 13 in	70	White	25024	**4ZA80**	12	
Heavy	Best	WYPALL X70	12 in x 12½ in	76	White	41200	**2LVA5**	12	
Dispenser Box									
Maximum	Superior	Brawny® Professional F900	9 in x 16½ in	72	White	29608	**34EW43**	10	‡#
Maximum	Superior	WYPALL X90	8¼ in x 16¾ in	68	Blue	12890	**45AR04**	5	
Maximum	Superior		11 in x 16¾ in	136	Blue	12891	**45AR05**	1	
Super Heavy	Excellent	Tough Guy G80	9 in x 16½ in	80	Blue	32KL18	**32KL18**	5	
Super Heavy	Excellent	WYPALL X80	9 in x 16¾ in	80	Red	05930	**2VHT2**	5	
Super Heavy	Excellent		9 in x 16¾ in	80	White	41048	**2VHT9**	5	
Super Heavy	Excellent		12½ in x 16¾ in	160	Blue	41041	**2VHT6**	1	
Super Heavy	Excellent		12½ in x 16¾ in	160	White	41044	**2VHT8**	1	
Heavy	Best	Brawny® Professional H700	9 in x 12½ in	176	White	29322	**29PJ04**	10	
Heavy	Best		9 in x 16½ in	100	White	25070	**1FC58**	5	
Heavy	Best	Tough Guy G70	9 in x 16½ in	100	White	32KL16	**32KL16**	5	
Heavy	Best	WYPALL X70	9 in x 16¾ in	100	White	41455	**2VHR8**	10	
Heavy	Best		9 in x 16¾ in	100	Blue	41412	**2LVA7**	10	

** Green Seal® Certified. † Contains 100% Total Recycled Content. ‡ USDA Certified Biobased Product. # Made from a Rapidly Renewable Resource.*

CONTINUED

CONTINUED

General Purpose Dry Wipes

Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.
Extra Heavy-Duty Repeat Task Wipes (continued)								
Flat Box								
Heavy	Best	Brawny® Professional H700	13 in x 15 in	300	White	25023	**2ZB60**	1
Heavy	Best	WYPALL X70	15 in x 16½ in	300	White	41100	**2LVA3**	1
Center Pull Roll								
Heavy	Best	WYPALL X70	9¾ in x 13½ in	275	White	41702	**2LVA9**	3
Perforated Roll								
Super Heavy	Excellent	Brawny® Professional F900	6¾ in x 10½ in	690	White	29602	**34EW44**	2 ‡#
Jumbo Perforated Roll								
Maximum	Superior	WYPALL X90	11¾ in x 12½ in	450	Blue	12889	**45AR03**	1
Super Heavy	Excellent	Tough Guy G80	11 in x 13 in	475	Blue	32KL19	**32KL19**	1
Super Heavy	Excellent	WYPALL X80	12½ in x 13 in	475	White	41025	**2VHT3**	1
Super Heavy	Excellent		12½ in x 13 in	475	Blue	41043	**2VHT7**	1
Super Heavy	Excellent		12½ in x 13 in	475	Red	41055	**2VHU1**	1
Heavy	Best	Brawny® Professional H700	9¾ in x 13¼ in	800	White	25060	**5JG37**	1
Heavy	Best	Tough Guy G70	11 in x 13 in	800	White	32KL17	**32KL17**	1
Heavy	Best	WYPALL X70	12½ in x 13½ in	870	White	41600	**2VHR9**	1
Heavy	Best		12½ in x 13½ in	870	Blue	41611	**2VHT1**	1

‡ USDA Certified Biobased Product. # Made from a Rapidly Renewable Resource.


No. 2ZB60


No. 34EW44


No. 2VHT1

Foodservice Towels

Use in kitchens and restaurants to clean surfaces like bars, grills, dishes, and tables. They're disposable, so they're a more sanitary alternative to using cloth rags or wipes.

Product Series	Sheet Size	Number of Sheets	Color	Mfr. Model	Item No.
¼ Fold					
WYPALL X50	12½ in x 23½ in	200	Blue/White	06053	**43FX45**
WYPALL X70	12½ in x 23½ in	300	Red	06354	**43FX49**
WYPALL X80	13½ in x 23½ in	150	Blue	06351	**43FX57**
WYPALL X80	13½ in x 23½ in	150	White	06350	**43FX56**
Dispenser Box					
Dixie Ultra™ F900	12¾ in x 21 in	144	White	29662	**34EW54**
Dixie Ultra™ F700	12¾ in x 21 in	150	White	29651	**34EW55**
Dixie™ H700	12 in x 23½ in	150	White	29426	**1FC60**
Dixie™ H700	13 in x 23½ in	150	Green/White	29416	**4KT89**
Dixie™ H700	13 in x 23½ in	150	Red/White	29423	**12G821**


No. 43FX45


No. 4KT89


No. 5UWN1


No. 12G815

Automatic Dry Wipe Dispenser & Rolls

Continuous-roll, wall-mount dispenser is sensor-activated to dispense dry wipes automatically. Touchless operation reduces the chance of cross-contamination and the spread of germs. Use task wipes for routine cleaning and polishing, as well as wiping hands and faces.

Cap.	Material	Color	W	D	Product Series	Mfr. Model	Item No.
Dry Wipe Dispenser							
(1) Roll	Plastic	Crimson (Red)	14 ¾ in	9 ¾ in	GP PRO Brawny® Professional	59465	**5UWN1**

Absorbency Level	Wet Strength Level	Product Series	Color	Roll L	Mfr. Model	Item No.	Pkg. Qty.
Medium-Duty Routine Task Wipes, Continuous Roll							
Super Heavy	Good	Brawny® Professional D400	White	250 ft.	20065	**4CY76**	6
Super Heavy	Good		Orange	250 ft.	20067	**4CY77**	6
Moderate	Good	Brawny® Professional A300	White	220 ft.	29516	**12G815**	6
Moderate	Good	Brawny® Professional D300	White	330 ft.	20035	**38XD67**	6


No. 2XRN3


No. 1PHH9


No. 2XRN1

Perforated Dry Wipe Rolls

Absorb spills, clean messes, and dust surfaces. Commonly used as an alternative to cloth towels to help prevent cross-contamination. These perforated towels are also used as a stronger alternative to paper towels.

Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.
Medium-Duty Routine Task Wipes								
Super Heavy	Good	Scott Rags	10½" x 11"	55	White	75230	**43FX05**	30
Super Heavy	Good	Scott Shop Towels	10" x 11"	55	Blue	75130	**2XRN3**	1
Moderate	Good	Brawny® Professional D300	9¼" x 11"	84	White	20085	**1PHH9**	20
Moderate	Good	WYPALL L30	10½" x 11"	70	White	05843	**2XRN1**	24

Manual Dry Wipe Dispensers

Store dry wipes and keep them located close to work locations. Dispensers allow users to take only the amount of dry wipes that they need.

Description	Mounting	Cap.	Material	Color	W	D	Product Series	Mfr. Model	Item No.
Jumbo-Roll Dispensers	Floor	(1) Roll	Metal	Black	18½"	16 5/64"	WypAll®	80596	**2VJA3**
	Floor	(1) Roll	Metal	Blue	19½"	32"	GP Georgia-Pacific®	54565	**5UWN2**
	Wall	(1) Roll	Metal	Black	16¾"	8 51/64"	WypAll®	80579	**2VJA2**
	Wall	(1) Roll	Metal	Blue	13⅜"	12⅛"	GP Georgia-Pacific®	54566	**5UWN3**
Pop-Up-Box Dispensers	Wall	(1) Box	Metal	White	10¾"	⅜"	Multiplate®	50313	**1FC62**
	Wall	(148) Wipes	Metal	Gray	5⅝"	5½"		54912	**6EMY3**
Center Pull Roll Dispenser	Wall	(1) Roll	Plastic	Black	10¼"	10¾"	GP Georgia-Pacific®	54050	**3JH09**


No. 2VJA3


No. 1FC62


No. 6EMY3


No. 3JH09

GA GRAINGER APPROVED

Cloth Rags and Shop Towels

Cloth rags clean up paint spills, apply stains and varnishes, and polish and dust surfaces. Shop towels clean oil, engine fluids, and grease from hands and tools.



No. 21HC63



No. 5LVD0

Primary Cleaning Application	Style	Material	Condition	Color	Size	10 lb Item No.	25 lb Item No.	50 lb Item No.	— Item No.
Cloth Rags									
For Dusting	Terry Cloth	Cotton	New	White	Varies	—	3U588	—	—
For Dusting and Polishing	Flannel	Cotton	Reclaimed	White	Varies	—	13Y366	13Y367	—
For General-Purpose Cleaning	Assorted	Cotton Blend	Reclaimed	Assorted	Varies	—	—	5LVA9	—
	Assorted	Cotton	Reclaimed	Assorted	Varies	—	3U590	—	—
	Flannel	Cotton	Reclaimed	Assorted	Varies	13Y351	13Y352	5LVD0	—
	Sheeting	Cotton	Reclaimed	White	Varies	—	13Y364	13Y365	—
	Sheeting	Cotton	New	White	Varies	—	3U586	—	—
	Sweatshirt	Cotton	Reclaimed	White	Varies	—	13Y354	13Y355	—
	Sweatshirt	Cotton	Reclaimed	Assorted	Varies	13Y345	13Y348	5LVC4	—
	Terry Cloth	Cotton	New	White	14 in x 17 in	—	—	—	4HP38
	Terry Cloth	Cotton Blend	Reclaimed	Assorted	Varies	5LVD3	3U591	—	—
	Terry Cloth	Cotton	Reclaimed	White	14 in x 17 in	13Y371	—	13Y373	—
	Terry Cloth	Cotton	New	White	Varies	—	20G116	—	—
	T-Shirt	Cotton Blend	Reclaimed	Assorted	Varies	5LVA6	5LVA7	—	—
	T-Shirt	Cotton	Reclaimed	Assorted	Varies	—	—	13Y349	—
	T-Shirt	Cotton	New	Assorted	Varies	—	9JZ92	—	—
For Glass and Mirror Cleaning	Huck Towel	Cotton	Reclaimed	Blue	Varies	—	8CGK7	—	—
	Huck Towel	Cotton	Reclaimed	Assorted	Varies	—	3U587	—	—
For Oil and Grease	Corduroy	Cotton	Reclaimed	Assorted	Varies	5LVD7	5LVD9	—	—
For Painting and Staining	T-Shirt	Cotton Blend	Reclaimed	White	Varies	13Y360	3U585	13Y362	—
	T-Shirt	Washed Cotton	New	White	Varies	—	16M204	—	—
	T-Shirt	Cotton	New	White	Varies	—	21HC63	—	—

Primary Cleaning Application	Size	Condition	Color	Package Type	Lint Level	Item No.
Shop Towels						
For Oil and Grease	12 in x 12 in	New	Red	Bag	Standard	4HP37
For Oil and Grease	12 in x 12 in	New	Red	Carton	Standard	13Y374



No. 2LVD1



No. 2VHX3

Critical Area and Delicate Task Wipes

Kimberly-Clark PROFESSIONAL

- Low lint

Soft and nonabrasive, wipes are used on delicate items like small parts and lab instruments and won't leave fibers behind on electronics or lenses.

KimTech Prep® Scottpure™— Cloth-like softness with high absorbency for cleaning and disinfecting.

KimTech Prep® Kimtex™—Wipes are acid-, base-, and solvent-resistant to prepare surfaces and clean up grease and oils.

Dispensing Form	Sheet Size	No. of Sheets	Material	Color	Mfr. Model	Item No.	Pkg. Qty.
KIMTECH SCOTTPURE							
¼ Fold	12 in x 15 in	100	Spunlace	White	06121	2VHW7	4
Dispenser Box	12 in x 23 in	50	Spunlace	White	06151	2VHW8	8
Center Pull Roll	7 in x 7 in	225	Spunlace	White	06193	2LVD1	6
Kimtech Prep							
¼ Fold	12½ in x 12 in	66	Meltblown	Blue	33560	2VHX5	8
Dispenser Box	12 in x 16¾ in	180	Meltblown	Blue	33352	2VHX3	1
Dispenser Box	8¾ in x 16¾ in	100	Meltblown	Blue	33570	2VHX6	5
Jumbo Perforated Roll	9¾ in x 13½ in	717	Polypropylene	Blue	33241	2LVD3	1



No. 2VHW6



No. 2VHX4

Cleanroom Wipes

Kimberly-Clark PROFESSIONAL

TOUGH GUY

- Low lint

Commonly used to remove surface contaminants and spills in controlled environments with low levels of pollutants like dust, airborne microbes, and chemical vapors.

Kimtech Pure® W4—Acid-, base-, and solvent-resistant. Wet wipes are 70% isopropyl alcohol and 30% deionized water. Dry wipes are double-bagged in an antistatic package.

Kimtech Pure® W5—High absorption rate and capacity. Double-bagged in an antistatic package.

Tough Guy®—Laser-sealed edges.



No. 30N522



No. 30N527

Primary Chemical	Fragrance	Sheet Size	Container Size	Material	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Wet Wipes									
Alcohol	Unscented	9 in x 11 in	40 ct.	Polypropylene	White	Kimberly-Clark	06070	2VHW6	10

Product Series	Sheet Size	No. of Sheets	Material	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Dry Wipes								
ISO 4 (Class 10)								
KIMTECH PURE W4	9 in x 9 in	100	Meltblown	White	Kimberly-Clark	33390	2VHX4	5
KIMTECH PURE W4	12 in x 12 in	100	Meltblown	White	Kimberly-Clark	33330	2VHX2	5
Tough Guy	6 in x 6 in	100	Cellulose, Polyester	White	Tough Guy	30N522	30N522	1
Tough Guy	9 in x 9 in	300	Cellulose, Polyester	White	Tough Guy	30N523	30N523	1
ISO 5 (Class 100)								
KIMTECH PURE W5	9 in x 9 in	100	Spunlace	White	Kimberly-Clark	06179	2VHX1	5
Tough Guy	9 in x 9 in	150	Polyester Knit	White	Tough Guy	30N527	30N527	1
Tough Guy	9 in x 9 in	150	Polyester Knit	White	Tough Guy	30N528	30N528	1
Tough Guy	12 in x 12 in	150	Cellulose, Polyester	White	Tough Guy	30N524	30N524	1
Tough Guy	12 in x 12 in	100	Hydro-entangled (HEF)	White	Tough Guy	30N526	30N526	1



No. 2VHU7



No. 2VHZ9

Dry Wipe Bucket Systems

Rubbermaid Commercial Products HYGEN | TOUGH GUY | GP PRO | Kimberly-Clark PROFESSIONAL

Bucket systems hold dry wipes while cleaning solvents of choice can be added to create wet wipes for appropriate cleaning tasks. **Starter Kits** are for controlled chemical handling and include closed-top dispensing bucket and dry-wipe rolls. **Wipe Refills** are for use in dry-wipe bucket dispenser systems. **Bucket System Dispensers** have tight-fitting, resealable lids to help prevent spills. Dry wipes are not included.

Product Series	Sheet Size	No. of Sheets	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bucket System Starter Kits							
HYGEN	8 in x 10 in	160	White	Rubbermaid	1928756	38UJ31	1
Kimtech WetTask	12 in x 12½ in	90	White	Kimberly-Clark	06411	2VHU9	6
Kimtech WetTask	12 in x 12½ in	60	White	Kimberly-Clark	06001	2VHU6	6
Tough Guy G50	12 in x 12½ in	90	White	Tough Guy	52WY24	52WY24	5
Bucket System Dry Wipe Refills							
HYGEN	8 in x 10 in	640	White	Rubbermaid	1928023	38UJ32	1
HYGEN	8 in x 10 in	960	White	Rubbermaid	1928024	38UJ33	1
Kimtech WetTask	9 in x 15 in	275	White	Kimberly-Clark	06006	2VHU7	2
Kimtech WetTask	12 in x 12½ in	90	White	Kimberly-Clark	06471	2VHV1	6
Pacific Blue Select™	12 in x 12 in	90	White	Georgia-Pacific	29700	6EMY0	6

Product Series	Mounting	Cap.	Material	Color	Dispenser Operation	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bucket System Dispensers									
HYGEN	Surface	(80) Wipes	Plastic	White	Manual	Rubbermaid	1822351	20KK66	4
GP PRO Pacific Blue Select™	Surface	(90) Wipes	Plastic	White	Manual	Georgia-Pacific	54006	6EMY1	6
Kimtech	Surface	(275) Wipes	Plastic	Blue	Manual	Kimberly-Clark	09361	2VHZ9	2

XLERATOR® Touchless Hand Dryers

- Up to 95% cost savings compared to paper towels
- Use up to 80% less energy than conventional models
- UL Listed and CE Certified

Innovative hand dryers feature reliable performance and can dry hands up to 3 times faster. These industrial models come with adjustable speed and sound. BuildingGreen® Approved and can help you qualify for LEED® v4 credits and Green Globe Certification.

Heated Air—Feature adjustable heat setting controls and an externally-visible LED service light.
- 8 sec. dry time
- 3.7 Wh energy per use

Non-Heated Air—No-heat technology helps provide reliable and highly-efficient performance.
- 10 sec. dry time
- 1.7 Wh energy per use

ThinAir®—Surface-mount design has a slim profile, adjustable heat setting, and externally visible service LED.
- 14 sec. dry time
- 3.7 Wh energy per use
- C-UL Listed

Accessories—Wall Guard Nos. 15Z471, 15Z472, and 38G831 feature an antimicrobial surface. Xchanger Combo Kit Nos. 38G830 and 38G829 include a recess accessory.

Nozzle Type	Finish	Color	Cover Material	Activator	Voltage	Amps	Item No.
Industrial High-Speed, Energy-Efficient Hand Dryers							
XLERATOR® - Heated Air							
Fixed	Smooth	White	BMC	Automatic	110 to 120	11.3/12.2	**455A05**
Fixed	Epoxy Enamel	White	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A13**
Fixed	Textured Graphite	Gray	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A21**
Fixed	Brushed	Silver	Stainless Steel	Automatic	110 to 120	11.3/12.2	**455A29**
XLERATOR® - Non-Heated Air							
Fixed	Smooth	White	BMC	Automatic	110 to 120	11.3/12.2	**455A69**
Fixed	Epoxy Enamel	White	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A77**
Fixed	Textured Graphite	Gray	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A85**
Fixed	Brushed	Silver	Stainless Steel	Automatic	110 to 120	11.3/12.2	**455A93**
Industrial Surface-Mounted, ADA-Compliant Hand Dryer							
ThinAir Hand Dryer - Heated Air							
Fixed	Smooth	White	ABS Plastic	Automatic	110 to 120	7/7.7	**455C34**



No. 455A05



No. 455A93


No. 455C34

Nozzle Type	Color	Item No.
Accessories		
HEPA Filter Retrofit Kit	Black	**38A941**
Noise-Reducing Nozzle	Gray	**3PDE6**
Wall Guard	White	**15Z471**
Wall Guard	Black	**15Z472**
Wall Guard	Silver	**38G831**
Xchanger Combo Kit, ADA Height	Silver	**38G830**
Xchanger Combo Kit, Standard	Silver	**38G829**
ADA Recess Kit	Silver	**3DYH4**

Hand Dryers

WORLD DRYER NOVA®

- UL, C-UL Listed

Industrial—Reliable, long life dryers each have a vandal-resistant enclosure.

Industrial High-Output—High-output cuts dry time by up to 50%.

Commercial Low-Profile—Compact dryers have automatic infrared sensors. No. 56EE50 is ADA Compliant.

Commercial Low-Noise—Brushless motor for quiet operation and long life in sound sensitive areas.

Nozzle Type	Finish	Color	Cover Material	Activator	Dry Time	Voltage	Amps	Brand	Item No.
Industrial									
Fixed	Porcelain Enamel	White	Cast Iron	Automatic	30 sec.	115	20	World Dryer	**56EE59**
	Porcelain Enamel	White	Cast Iron	Push Button	30 sec.	115	20	World Dryer	**56EE57**
	Painted	White	Steel	Push Button	30 sec.	115	20	World Dryer	**56EE52**
	Stainless Steel	Silver	Stainless Steel	Push Button	30 sec.	115	20	World Dryer	**8DWJ5**
Swivel	Porcelain Enamel	White	Cast Iron	Push Button	30 sec.	115	20	World Dryer	**56EE55**
	Porcelain Enamel	White	Cast Iron	Push Button	30 sec.	230	10	World Dryer	**56EE56**
Industrial High-Output									
Fixed	Porcelain Enamel	White	Cast Iron	Automatic	15 sec.	115	20	World Dryer	**56EE48**
Swivel	Porcelain Enamel	White	Cast Iron	Push Button	15 sec.	115	20	World Dryer	**56EE53**
	Porcelain Enamel	White	Cast Iron	Push Button	15 sec.	208/230	10	World Dryer	**56EE54**
Commercial Low-Profile									
Integral	Epoxy	White	Cast Aluminum	Automatic	30 sec.	100 to 240	8/7/6	Nova	**56EE50**
	Painted	White	Steel	Automatic	30 sec.	120/208/240	15/10/8.7	Nova	**56EE51**
Commercial Low-Noise									
Fixed	Epoxy Enamel	White	Cast Aluminum	Automatic	30 sec.	120	15	Nova	**56EE49**



No. 8DWJ5



No. 56EE51

Dyson Airblade™ Hand Dryers

dyson

- 110 to 127V
- Integral nozzle

Touch-free design provides an extremely fast and hygienic way to dry hands. 50% quieter than original Dyson Airblade dryers and tough enough for high-traffic areas. HEPA filter removes 99.97% of bacteria from air used to dry hands. Engineered to fit a variety of restroom environments. Nos. 489J80, 489J76, and 489J78 are tap-operated combination units that allow you to wash and dry hands at the sink.

Description	Cover Material	ADA Compliant	Finish	Color	Activator	Item No.
Wall-Mounted Hand Dryers - 12 sec. Dry Time*						
Hands-in Model	Polycarbonate ABS	Yes	Antimicrobial	Gray	Infrared Sensor	**20RX04**
Hands-in Model	Polycarbonate ABS	Yes	Antimicrobial	White	Infrared Sensor	**20RX05**
Hands-under Model	Polycarbonate ABS	Yes	Antimicrobial	Silver	Capacitive Sensor	**52XJ67**
Hands-under Model	Polycarbonate ABS	Yes	Antimicrobial	White	Capacitive Sensor	**52XJ68**
Wall-Mounted - Wash/Dry at Sink - 15 sec. Dry Time*						
Wash & Dry Combination Unit	Stainless Steel	Yes	Brushed	Silver	Infrared Sensor	**489J80**
Deck-Mounted - Wash/Dry at Sink - 15 sec. Dry Time*						
Wash & Dry Combination Unit (short)	Stainless Steel	Yes	Brushed	Silver	Infrared Sensor	**489J76**
Wash & Dry Combination Unit (tall)	Stainless Steel	No	Brushed	Silver	Infrared Sensor	**489J78**

** Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.*


No. 20RX04



No. 52XJ67


No. 489J76



No. 60JE01



No. 2VHR5



No. 3PCJ2

Healthcare Supplies

Wash Cloths and Towels—Provide an alternative to fresh linens at shower/safety stations. Airlaid, bonded cellulose has high capacity, absorbency, and durability. Individually poly-wrapped to protect from contamination and moisture. Multipurpose, absorbent wipes help reduce the cost and inconvenience of laundering and pilferage. Natural rubber and latex-free.

Maternity Pads—Nonwoven cover stock with absorbent core. Individually wrapped, with adhesive for secure attachment.

Description	Sheet Length	Sheet Width	Brand	Item No.	Pkg. Qty.
Wash Cloths and Towels					
Dry Wipe	12 ½ in	11 ½ in	Tough Guy	**39M981**	12
Personal Bath Towel	39 in	19 ½ in	Georgia-Pacific	**6RA68**	200
Wash Cloths and Wipes					
Personal-Care Dry Wipes	10"	13"	Georgia-Pacific	**60JE01**	55
Personal-Care Dry Wipes	13"	9½"	Georgia-Pacific	**60JE02**	50
Wash Cloths and Towels					
X50 Hygienic Washcloth	12 ½ in	10 in	Kimberly-Clark	**2VHR5**	26
X60 Hygienic Washcloth	12 ½ in	10 in	Kimberly-Clark	**2VHR6**	70
L40 Dry-Up Towel	42 in	19 ½ in	Kimberly-Clark	**2XRN2**	200
X60 Shower Towel	43 ¾ in	20 in	Kimberly-Clark	**2VHR3**	100
All Night Maternity Maxi Pads					
All Night Coverage, 2½" x 12"	—	—	Hospeco	**3PCJ2**	288

Toilet Seat Covers and Dispensers

TOILET SEAT COVERS

Provide a paper tissue layer between restroom visitors and the toilet for sanitary protection. Also called toilet seat liners, these disposable covers are biodegradable and flushable. White color.


No. 2VEX7

DISPENSERS

Mounted inside restroom stalls to help improve hygienic conditions for visitors by holding disposable toilet seat covers.


No. 22LC68

Fold Type	Sheet Size	Number of Sheets	Color	Item No.	Pkg. Qty.
Toilet Seat Covers					
¼ Fold	16 ¾ in x 14 ⅛ in	200	White	**2VEX5**	25
½ Fold	16 ¾ in x 14 ⅛ in	250	White	**2VEX6**	20

Fold Type	Material	Cap.	Color	H	W	D	Item No.	Pkg. Qty.
Toilet Seat Cover Dispensers								
¼ Fold	Plastic	(200) Seat Covers	White	12 in	8 ½ in	2 ⅛ in	**2VEX7**	1
½ Fold	Plastic		White	11 ½ in	16 ⅜ in	2 ⅜ in	**2VEX8**	1
½ Fold	Plastic	(500) Seat Covers	Gray	11 ½ in	16 ⅜ in	2 ⅜ in	**2VEX9**	1
½ Fold	Plastic		Smoke	11 ½ in	16 ¼ in	2 ½ in	**22LC68**	1
½ Fold	Stainless Steel	(250) Seat Covers	Silver	11 in	15 ¾ in	2 in	**1ECK2**	1
½ Fold	Steel		Silver	11 ½ in	16 ½ in	1 ⅞ in	**3P916**	1

Feminine Hygiene Receptacles and Bags

RECEPTACLES

Polypropylene Wall-Mounted Receptacle—Features a lightweight, easy-to-lift lid.

Metal Floor Receptacle—Unit fits under the stall wall and has a swing door allowing access from 2 stalls.

Stainless Steel Wall-Mounted Receptacle—Stainless steel satin finish. Hinged lid.


No. 2NXW2

POLYETHYLENE BAGS

Bottom seal for leakproof usage and spill prevention when removing bags. Black color obstructs viewing of contents.


No. 4RCZ4

Description	L	W	H	Item No.	Pkg. Qty.
Receptacles					
Polypropylene Wall-Mounted Receptacle	12"	5 ¼ in	10 in	**2NXW1**	1
Metal Floor Receptacle	9⅜"	9 in	11 ½ in	**2NXW2**	1
Stainless Steel Sanitary Napkin Receptacle	9¼"	9 in	11 in	**1ECK9**	1
Bags					
Polyethylene Sanitary Napkin Receptacle Liners	17"	17 in	17 in	**4RCZ4**	1000

Feminine Hygiene Supplies

TAMPONS AND SANITARY NAPKINS

Regular Tampax® Tampons—100% cotton and/or rayon blend, biodegradable, and flushable. (Outer tube not flushable.)

Maxithins® #4 Maxi Pads—Individually boxed.

Maxithins® Gards® Ultra-Thin Pads with Wings—Individually boxed in #4 carton.


No. 8Y411

DISPENSERS

Dual Vendor—Dispenses 15 No. 3U818 or 4HJ66 pads and 22 No. 3U822 tampons. Has $0.25 coin release. White color.

Stainless Steel Vendor—Distributes 15 No. 3U818 or 4HJ66 pads and 25 No. 3U822 tampons. $0.25 coin release. Made of 18-gauge, 304 stainless steel.

FEMININE HYGIENE STARTER KIT

Contains 60 Maxithins® pads, 60 Tampax® tampons, and 60 Necessities disposal bags.

KRAFT WAXED PAPER BAGS

Use No. 3U825 with standard swing door napkin receptacle. Use No. 3U824 with No. 2NXW1 receptacle. No. 5FW85 bag with gusset fits Sanisac and No. 1EKC9 receptacles.

NECESSITIES® COURTESY BAGS

Encourage disposal of feminine hygiene, incontinence, and personal care products.

Description	L	W	H	Item No.	Pkg. Qty.
Tampons and Sanitary Napkins					
Regular Tampax® Tampons	5 in	¾ in	¾ in	**3U822**	500
Maxithins® #4 Maxi Pads	4 ¼ in	3 ¼ in	1 in	**3U818**	250
Maxithins® Gards® #4 Ultra-Thin Pads	4 ¼ in	3 ¼ in	1 in	**4HJ66**	200
Dispensers					
Dual Vendor, 25 Cent Machine				**8Y411**	1
Stainless Steel Vendor, 25 Cent Machine	10 in	6 ¾ in	26 ¼ in	**4HJ63**	1
Kit					
Feminine Hygiene Starter Kit	4 ¼ in	3 ¼ in	1 in	**3U820**	1
Bags					
Kraft Waxed Paper Sanitary Napkin Receptacle Liners	8"	8 in	7 in	**3U825**	500
Kraft Waxed Paper Sanitary Napkin Receptacle Liners	9"	9 in	10 in	**3U824**	250
Kraft Sanitary Napkin Receptacle Liners With Gusset	3½"	7 ½ in	10 ¼ in	**5FW85**	500
Necessities® Courtesy Sanitary Napkin Disposal Bags	7¾"	3 in	7 ¾ in	**5FW86**	500

Door Handle Tissues and Dispensers

DOOR HANDLE TISSUES

Provide a shield between clean hands and dirty door handles to help prevent exposure to germs. Tissues are typically placed in dispensers.

DISPENSERS

Found in restrooms to dispense door handle tissues that are used to open the restroom door. Mount plastic dispensers next to washroom exit doors.


No. 1LYJ1


No. 1LYJ2

Product Series	Fold Type	Sheet Size	Number of Sheets	Ply	Color	Item No.	Pkg. Qty.
Door Handle Tissues							
SAFE-T-GARD®	Multifold	4 in x 10 in	200	2	White	**1LYJ3**	40

Description	Product Series	Fold Type	Cap.	Color	H	W	D	Item No.	Pkg. Qty.
Dispensers									
Door Tissue Dispenser and Receptacle	Pacific Blue Ultra™	Multifold	(400)	Smoke	11 in	6 ½ in	4 in	**1LYJ1**	1
Door Tissue Dispenser	Pacific Blue Ultra™	Multifold	Sheets	Smoke	11 in	6 ½ in	4 in	**1LYJ2**	1



No. 2ELE6



No. 6PXW4



No. 32V428



No. 1MDU8



No. 39F735



Lockable Medicine Cabinet No. 6MXZ9



Recessed Medicine Cabinet No. 6MXY2



Round Corner Surface Mount No. 6MXZ2



Adjustable Tilt Mirror No. 19UC69



Theft Resistant, Channel Framed Washroom Mirror No. 14C574



Lock Box Accessory No. 6MXZ4

Baby Changing Stations and Baby Seat

Baby Changing Stations—Wall-mounted stations with antimicrobial changing surface. Include safety straps, bag/purse hooks, mounting hardware, and a built-in sanitary liner dispenser. No. 39F735 includes a backer plate with steel hinges.

Baby Wall Seat—Fits inside fitting room or restroom stall without compromising space. Seat has molded-in bag hook, Y-harness safety belt, a concave bed, and head and side support.

Description	Closed H	Closed W	Closed D	Brand	Mfr. Model	Item No.
Baby Changing Stations						
Vertical, Cream Polyethylene	35½"	22"	5¼"	Koala Kare Products	KB101-00	**2ELE6**
Horizontal, Stainless Steel	20"	35¼"	4"		KB110-SSWM	**2ELE7**
Horizontal, Cream Polypropylene	22¼"	35³⁄₁₆"	4"		KB200-00	**6PXW4**
Horizontal, Gray with Stainless Steel Veneer	22¼"	35³⁄₁₆"	4"		KB200-01SS	**32V428**
Horizontal, White Granite with Stainless Steel Veneer	22¼"	35³⁄₁₆"	4"		KB200-05SS	**32V429**
Horizontal, Polypropylene Baby Changing Station	21½"	33½"	4"	Rubbermaid Commercial Products	FG781888LPLAT	**8YJY2**
Horizontal, Polyethylene Baby Changing Station with Door/Wall Plate	15⅜"	34¼"	4"	Foundations	100-EH-BP	**39F735**
Horizontal, Polyethylene Baby Changing Station	15⅜"	34¼"	4"		100-EH-SC	**35MG24**
Baby Wall Seat						
150-lb. Capacity	22¼"	13¼"	3⅔"	Hospeco	67018	**1MDU8**

Description	For Use With	Brand	Mfr. Model	Item No.
Replacement Parts				
Baby Changing Station Strap	6PXW4, 32V428, 32V429	Koala Kare Products	885	**2ERH4**
Baby Changing Station Strap	2ELE6	Koala Kare Products	889	**2ERH5**
Baby Changing Station Shock	2ELE6	Koala Kare Products	877	**2ERH7**
Baby Changing Station Shock	2ELE7	Koala Kare Products	875	**2ERH8**
Changing Station Liners for Baby Changing Stations				
3-Ply Biodegradable Paper Liners, Pkg. of 500	2ELE5, 2ELE6, 2ELE7	Koala Kare Products	KB150-99	**2ELZ8**



Clean-Trace™ Surface ATP Swabs

Easy to use and simple to learn swabs test for the presence of adenosine triphosphate (ATP) to verify cleaning effectiveness.

Operating Temp. Range	Storage Temp. Range	Shelf Life	Item No.	Pkg. Qty.
59° to 77°F	35.6° to 46.6°F	10 Months Refrigerated	**5UXE9**	100

KETCHAM MEDICINE CABINETS & ACCESSORIES

Medicine Cabinets and Mirrors

H	W	D	Body Material	Item No.
Lockable Medicine Cabinet				
9⅞"	15¾"	4⁵⁄₁₆"	22 Gauge Satin Stainless Steel	**6MXZ9**
Recessed Medicine Cabinets				
22"	16"	4½"	Polystyrene	**6MXY8**
22"	16"	4½"	26 Gauge White Baked Enamel Steel	**6MXY2**
26"	16"	4½"		**6MXY3**
36"	16"	5"		**6MXZ0**
Recessed Medicine Cabinet, Tilting				
24"	18"	5"	20 Gauge White Baked Enamel Steel	**6MYA0**
Surface Mount Medicine Cabinets				
19¾"	24"	8½"	20 Gauge White Baked Enamel Steel	**6MXY9**
22"	16"	5"	26 Gauge White Baked Enamel Steel	**6MXY4**
24"	18"	5"	22 Gauge Type 304 Satin Stainless Steel	**33HY74**
24"	24"	4 ⅜"	20 Gauge White Baked Enamel Steel	**14C571**
26"	16"	5"	26 Gauge White Baked Enamel Steel	**6MXZ1**
30"	24"	4 ⅜"	20 Gauge White Baked Enamel Steel	**14C568**
Surface Mount Medicine Cabinet, Tilting				
24¼"	18⅛"	5¾"	20 Gauge White Baked Enamel Steel	**6MYA1**
Round Corner Surface Mount, Right Hand Medicine Cabinet				
22"	16"	4"	20 Gauge White Baked Enamel Steel	**6MXZ2**
Fixed Tilt Washroom Mirrors, ADA Compliant				
30"	16"	4"	20 Gauge Type 304 Satin Stainless Steel	**19UC66**
36"	18"	4"		**19UC67**
36"	24"	4"		**19UC68**
Adjustable Tilt Washroom Mirrors, ADA Compliant				
30"	16"	¾"	20 Gauge Type 304 Satin Stainless Steel	**19UC69**
36"	18"	¾"		**19UC70**
36"	24"	¾"		**19UC71**
Theft-Resistant, Channel Framed Washroom Mirrors				
22"	16"	½"	Galvanized Stainless Steel	**6MXY5**
24"	18"	½"		**6MXY6**
30"	18"	½"		**6MXY7**
36"	18"	½"		**14C574**
36"	24"	½"		**14C575**
Stainless Steel Mirrors				
14"	10"	⅛"	Bright Annealed Stainless Steel	**6MXZ5**
20"	16"	⅛"		**6MXZ6**
24"	18"	⅛"		**6MXZ7**
30"	16"	⅛"		**6MXZ8**
30"	24"	1⁄16"		**33HY70**
36"	18"	1⁄16"		**33HY69**
36"	24"	1⁄16"		**33HY71**
Shatter-resistant Washroom Mirrors				
22"	16"	½"	Galvanized Stainless Steel	**33HY66**
24"	18"	½"		**33HY67**
30"	18"	½"		**33HY68**
Lock Box Accessory				
5"	13"	3½"	20 Gauge White Baked Enamel Steel	**6MXZ4**

Correct Handwashing Technique

Hands should be cleaned, at minimum, at the end of each work period, prior to breaks, and when visiting the bathroom. Developing good hand-washing technique is essential to ensure hands are thoroughly clean. After hands are washed, it is also important to make sure that they are thoroughly rinsed and dried to help keep skin from chapping and cracking.

Proper technique includes the following:


Rub palm to palm


Rub palm over the back of the hand, fingers interlaced


Palm to palm fingers interlaced


Fingers interlocked into palms


Rotational rubbing of thumb clasped into palm


Rotational rubbing of clasped fingers into palm


No. 3FPN5


No. 1XHN2


No. 3FPN3

Foam Dispensing Systems

TOUGH GUY

Touch-free or manual dispensers automatically deliver the correct amount of hand soap. Lockable with large sight window for easy refill check.

Description	TOUCH-FREE 1,200 mL Item No.	Pkg. Qty.	MANUAL 1,250 mL Item No.	Pkg. Qty.
Dispensers				
Dove Gray	**3FPN5**	1	**1XHN2**	1
Refills				
Green Certified Foam Soap	**3FPN3**	2	**1XHN5**	3
Antimicrobial Foam Handwash	**3FPN4**	2	—	
Pink Foam Handwash	—		**1XHN3**	3


No. 11C808


No. 11C813


No. 11C812


No. 54ZU84


No. 54ZU87


No. 1DYD7

Bulk Soap Dispensers

TOUGH GUY

Accept most brands of bulk soap. Nos. 11C808 and 11C810 have a refillable bottle for easy filling and cleaning.

Description	Color	Dispenser Mount	Size	H	W	D	Item No.	
Transparent Foam Dispensers								
Manual, For use with No. 11C809	White	Wall	1,000mL	11 in	4 7⁄8 in	4 3⁄4 in	**11C808**	
Manual	Smoke Gray	Wall	46 oz	8 1⁄2 in	5 1⁄2 in	4 1⁄2 in	**11C813**	
Transparent Liquid Dispensers								
Manual, For use with No. 11C811	Gray/White	Wall	1,000mL	11 in	4 7⁄8 in	4 3⁄4 in	**11C810**	
Manual	White	Wall	46 oz	8 1⁄2 in	5 1⁄2 in	4 1⁄2 in	**11C812**	
Push-Up Valve	Silver	Wall	24 oz	7 3⁄4 in	4 1⁄8 in	4 1⁄4 in	**1DYD5**	*
Metal Liquid Soap Dispensers								
Horizontal Push-In Valve, 2" Spout	Silver	Wall	1.2L	8 3⁄16 in	2 7⁄8 in	8 1⁄8 in	**54ZU85**	*
Vertical Push-In Valve, 2" Spout	Silver	Wall	1.2L	8 3⁄16 in	2 7⁄8 in	4 3⁄4 in	**54ZU84**	*
Replacement Brass Valve for Nos. 54ZU85 and 54ZU84	Silver	—	—	4 in	3⁄4 in	1"	**1DYD9**	
Manual	Silver	Counter	32 oz	5 5⁄8 in	3 1⁄4 in	3 1⁄4 in	**54ZU87**	*
Manual	Silver	Counter	32 oz	7 5⁄8 in	3 1⁄4 in	3 1⁄4 in	**54ZU86**	*
Shampoo Dispensers								
Push-In Valve, 3 Reservoir	White	Wall	400mL	10 1⁄2 in	7 3⁄4 in	3 3⁄4 in	**1DYD7**	*
Push-In Valve, 2 Reservoir	White	Wall	400mL	10 1⁄2 in	6 1⁄8 in	3 3⁄4 in	**1DYE1**	*
Refills								
Replacement Bottle, For Use With 11C808							**11C809**	
Replacement Bottle, For Use With 11C810							**11C811**	

**** ADA Compliant.***


No. 1XHJ5

Bulk Hand Soap and Hair/Body Wash

TOUGH GUY GOJO

- 1-gal. bottles

Tough Guy® soap is designed for use in all brands of bulk soap dispensers. More GOJO® bulk gallons are available, see Grainger.com®.

Description	Fragrance	Brand	Mfr. Model	Item No.	Pkg. Qty.
Hand Soap	Floral Balsam	Tough Guy	1887-04	**1XHJ5**	4
Hair and Body Wash	Citrus Floral	Gojo	1886-04	**32GL52**	4


No. 1PKR2


No. 5EDE0


No. 3AU25


No. 5EDE1

GOJO

TFX™ and FMX™ Dispensing Systems

TFX™ dispensers offer touch-free operation. FMX™ dispensers manually dispense soaps with 1-hand push operation.

No. 5EDD8—PROVON® Antimicrobial Skin Cleanser refill for use with Dispenser No. 5EDE0. Meets protocol for surgical scrub, healthcare personnel hand wash, preoperative skin preparation, skin wound and general skin cleansing. Contains a broad-spectrum antimicrobial agent. Reduces microflora after one scrub.

Description	Mfr. Model	Item No.	Pkg. Qty.
1,200 mL			
PROVON® TFX™ Dispenser			
Dove Gray	2745	**1PKR2**	1
TFX™ Refills			
PROVON® Green Certified Foam Hand Cleaner	5382-02	**3EUF2**	2
PROVON® Foam Handwash with Advanced Moisturizers	5385-02	**1PKP2**	2
PROVON® Ultra Mild Foam Handwash	5383-02	**38FH99**	2
PROVON® TFX™ CHG Antimicrobial Skin Cleanser Dispenser			
Gray	2845	**5EDE0**	1
TFX™ CHG Refill			
PROVON® Antimicrobial Skin Cleanser	5306-04	**5EDD8**	4
1,250 mL			
PROVON® FMX-12™ Dispenser			
Dove Gray	5160	**3AU25**	1
FMX™ Refills			
PROVON® Green Certified Foam Hand Cleaner	5182-04	**56JM35**	4
PROVON® Foam Handwash with Moisturizers	5185-04	**56JM36**	4
PROVON® Foaming Antimicrobial Handwash with Moisturizers	5186-04	**56JM37**	4
PROVON® Foam Hair and Body Wash with Moisturizers	5187-04	**56JM38**	4
2,000 mL			
FMX™ Dispenser			
Dove Gray	5277-06	**40CP18**	1
FMX™ Refills			
PROVON® Foam Handwash with Moisturizers	5285-02	**3AU26**	2
PROVON® Foaming Antimicrobial Handwash with Moisturizers	5286-02	**3AU27**	2
PROVON® Foam Hair and Body Wash with Moisturizers	5287-02	**3AU28**	2
1,200 mL			
FMX™ CHG Dispenser			
Dove Gray	5172	**5EDE1**	1
FMX™ CHG Refill			
PROVON® Antimicrobial Skin Cleanser	5304-03	**5EDD9**	3

FMX-12™ Dispensing System

- 1250mL

Manually dispense hand soap and feature a large sight window for easy refill check. One handed-push operation. ADA compliant.


No. 3WU72


No. 56JM27

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	5150-06	**3WU72**	1
Refills			
GOJO® Luxury Foam Handwash	5161-04	**56JM27**	4
GOJO® Luxury Foam Antibacterial Handwash	5162-04	**56JM28**	4
GOJO® Green Certified Foam Hand Cleaner	5165-04	**56JM30**	4
GOJO® E1 Foam Handwash	5167-04	**56JM31**	4
GOJO® Green Certified Foam Hand, Hair & Body Wash	5163-04	**56JM29**	4


No. 1PKP7


No. 4HGV9


No. 4HGW1

TFX™ 1200mL Touch-Free Dispensing Systems

Automatically dispense the correct amount of hand soap needed. Large sight window provides easy refill checks. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2740-12	**1PKP7**	1
Black	2730-12	**1PKP8**	1
Nickel	2789	**4HGV9**	1
Brushed Metallic	2799	**4HGW1**	1
Refills			
GOJO® Premium Foam Handwash with Skin Conditioners	5361-02	**1PKN8**	2
GOJO® Premium Foam Antibacterial Handwash	5362-02	**1PKN9**	2
GOJO® Green Certified Foam Hand Cleaner	5665-02	**1LWU3**	2


No. 12Z368


No. 12Z372


No. 12Z364

ADX-12™ Dispensing Systems

- 1250mL

Lockable systems manually dispense hand soap. Feature a large sight window for easy refill check and removable pump.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
White	8880-06	**12Z368**	1
Gray/White	8884-06	**12Z370**	1
Black	8886-06	**12Z371**	1
Black/Chrome	8888-06	**12Z372**	1
Refills			
GOJO® Clear & Mild Foam Handwash	8811-03	**12Z364**	3
GOJO® Citrus Ginger Foam Hand & Showerwash	8813-03	**12Z366**	3
GOJO® Botanical Foam Handwash	8816-03	**12Z367**	3

NXT® 1000mL Dispensing Systems


No. 5VN18


No. 8VMF5

SPACE SAVER™ design takes up less space than traditional 800mL dispensers. Manually dispense hand soap. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2130-06	**5VN18**	1
Black	2135-06	**8VMF5**	1
Refills			
GOJO® Ultra Mild Antimicrobial Lotion Soap with Chloroxylenol	2112-08	**5VN09**	8

LTX™ 1200mL Touch-Free Dispensing Systems


No. 15E822


No. 15E821


No. 15E819

Dispensers optimize energy use and virtually eliminate the need to change batteries. Lockable units automatically dispense the correct amount of soap needed. Feature large sight window for easy refill check and removable pump. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
White	1980-04	**15E822**	1
Gray/White	1984-04	**15E823**	1
Black	1986-04	**15E824**	1
Black/Chrome	1919-04	**15E821**	1
Refills			
GOJO® Clear & Mild Foam Handwash	1911-02	**15E819**	2
GOJO® Antibacterial Plum Foam Handwash	1912-02	**52YM12**	2
GOJO® Pomeberry Foam Handwash	1916-02	**15E884**	2

Counter-Mount Dispensers


No. 1MBH6


No. 16Z906


No. 1AUP2


No. 16Z907

CXi™ is a touch-free system; CXT™ features extended battery life, and CX™ includes a snap-in-place cartridge system.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
GOJO® CXi™ Touch-Free, Chrome	8520-01	**1MBH6**	1
GOJO® CXT™ Touch-Free, Chrome	8540-01	**16Z906**	1
GOJO® CX™ Manual, Chrome	8500-01	**1AUP2**	1
Refills			
PURELL® Professional Mild Foam Soap	8545-04	**16Z907**	4
PURELL® Professional Refreshing Foam Soap	8516-04	**20PV32**	4


No. 35YX98


No. 35YX77


No. 35YX85


No. 35YX96

deb

Professional Skincare and Dispensers

4-pt. system provides skin care for any workplace environment. The system is designed to help keep the skin permanently healthy and consists of the following steps: protect, cleanse, sanitize, and restore.

Description	Mfr. Model	Item No.	Pkg. Qty.
Protect - Pre-Work Skin Protection Creams			
Sunscreen - 1L	SUN1L	**35YX91**	6
Medicated Skin Cream Dispenser - 1000mL Refill Size	PRO1LDS	**35YX93**	1
Sunscreen Dispenser - 1000mL Refill Size	SUN1LDS	**35YX94**	1
Cleanse - Appropriate Cleanser to Remove Dirt & Irritants			
Shampoo and Body Wash, Rainforest Fragrance - 2000mL	HAB2LT	**35YX90**	4
Shampoo/Body Wash Dispenser - 2000mL Refill Size	SHW2LDP	**35YX98**	1
Hand Soap, Fresh Fragrance - 1000mL	AZU1L	**35YX77**	6
Hand Soap, Fresh Fragrance - 1250mL	AZU120TF	**35YX81**	3
Hand Soap, Fresh Fragrance - 2000mL	AZU2LT	**35YX80**	4
Touch-Free Soap/Sanitizer Dispenser - 1200mL Refill Size	TF2WHI	**35YY03**	1
Push Style Soap Dispenser - 3250mL	GPF3LDQ	**32KL76**	1
Foam Hand Soap - 3250mL Refill Size	GPF3LNA	**28AR59**	2
Foam Soap Dispenser - 1000mL Refill Size	WRM1LDS	**35YX95**	1
Foam Soap Dispenser - 2000mL Refill Size	WRM2LDP	**35YY05**	1
Sanitize - Use With or Without Water to Kill Germs and Provide Hand Hygiene			
Hand Sanitizer, Unscented - 400mL Pump Bottle	IFS400ML	**35YX86**	6
Hand Sanitizer, Unscented - 1000mL Cartridge	IFS1TF	**35YX85**	3
Hand Sanitizer, Unscented - 1000mL Cartridge	IFS1L	**35YX84**	6
Foam Hand Sanitizer Dispenser - 1000mL Refill Size	IFS1LDS	**35YX96**	1
Touch-Free Hand Sanitizer Dispenser - 1000mL Refill Size	AUTOINFCON	**35YX97**	1
Restore - After-Work Creams to Maintain Skin In Healthy Condition			
Medicated Skin Cream - 1L	SBS1L	**35YX92**	6
Skin Conditioner, Unscented - 1000mL	RES1L	**35YX82**	6
Lotion Dispenser - 1000mL Refill Size	RES1LDS	**35YY02**	1


No. 54EF43

No. 54GD34

GP PRO

enMotion® Automated Soap and Sanitizer Dispensers

Stylish units provide virtually soundless automatic dispensing of foam soaps and sanitizers. High-capacity refill bottles are hygienically sealed to help reduce cross contamination. Refills are simple to load for easy maintenance and uninterrupted service.

See Page 1485 for Required Dispenser Sublease Information

Description	Mfr. Model	Item No.
Dispensers		
Counter-Mount Soap Dispenser, Chrome	52065	**54EF43**
Wall-Mount Soap/Sanitizer Dispenser, Black	52057	**53JU89**
Wall-Mount Soap/Sanitizer Dispenser, White	52058	**53JU90**
Wall-Mount Soap/Sanitizer Dispenser, Stainless Steel	52060	**54GD34**
Soap Refills - Pkg. of 2		
Foam Moisturizing Soap, Unscented - 1200mL	42714	**53JU93**
Foam Moisturizing Soap, Tranquil Aloe® - 1200mL	42715	**53JU94**
Antimicrobial Soap, Aloe Vera - 1200mL	42819	**53JU95**
Hypoallergenic Soap, Unscented - 1200mL	42818	**53JZ89**
Sanitizer Refills - Pkg. of 2		
Unscented - 1000mL	42336	**53JU92**
Unscented - 1000mL	42334	**53JU91**
Unscented, Moisturizing - 1000mL	42331	**53PZ32**


No. 41D353


No. 41D777


No. 41D356


No. 41D775

Liquid Soap Bottles and Refills

Dial

Softsoap

Description	Fragrance	Size	Item No.	Pkg. Qty.
Liquid Soap Bottles				
Dial® Professional Antimicrobial	Floral	2 oz.	**41D359**	48
	Floral	7.5 oz.	**4XKR6**	12
	Floral	16 oz.	**41D362**	12
Dial® Basics Professional	Honeysuckle	7.5 oz.	**41D351**	12
	Rosemary and Mint	16 oz.	**41D353**	12
Dial® Professional Antimicrobial Sensitive Skin	Pleasant	16 oz.	**41D361**	12
Softsoap® Soothing Aloe Vera	Clean Fresh	7.5 oz.	**41D777**	6
Liquid Refills				
Dial® Broad Spectrum Antimicrobial	Floral	1 gal.	**4XKR5**	4
Dial® Basics Professional	Honeysuckle	1 gal.	**41D356**	4
Dial® Professional Antimicrobial Sensitive Skin	Floral	1 gal.	**41D364**	4
Softsoap® Antibacterial Hand Soap	Unscented	1 gal.	**31HJ19**	4
Softsoap® Soothing Aloe Vera	Unscented	1 gal.	**41D775**	4


No. 52PG16

Pacific Blue Ultra™ Soap and Sanitizer Dispensers

GP PRO

Manual dispensers feature a durable design, adjustable portion control, and when using high-quality Pacific Blue™ soaps and sanitizers, deliver the hygiene efficiency you expect with the durability you need for day-to-day performance.

Description	Mfr. Model	Item No.
Dispensers		
Black	53057	**52PG16**
White	53058	**52PG17**
Hand Soaps		
Dye-Free Unscented, 1200mL	43714	**52PG14**
Pacific Citrus®, 1200mL	43715	**52PG15**
Antimicrobial Pacific Citrus®, 1200mL	43819	**52WP71**
Antimicrobial Unscented, 1200mL	43818	**53JZ91**
Hand Sanitizer		
Unscented, 1000mL	43335	**52WP70**
Shampoo/Body Wash		
Aloe, 1200mL	43024	**53JZ90**


No. 41D347


No. 1VZR1

Dial

GOJO

Foam Soap Bottles and Refills

Description	Fragrance	Size	Item No.	Pkg. Qty.
Foam Soap Bottles				
Dial® Complete Antimicrobial	Citrus	7.5 oz	**1XEJ3**	8
Dial® Complete Antibacterial	Cranberry	7.5 oz	**41D348**	8
	Pear	7.5 oz	**41D347**	8
	Spring Water	7.5 oz	**48GE57**	8
Dial® Complete Professional	Original	15.2 oz	**41D372**	4
Dial® Basics Professional	Honeysuckle	15.2 oz	**41D373**	4
Dial® Basics Hypoallergenic	Honeysuckle	7.5 oz	**41D352**	8
GOJO® Premium Foam Antibacterial Handwash	Fresh Fruit	7.5 oz	**1VZR1**	6
GOJO® Green Certified Foam Hand Cleaner	Unscented	7.5 oz	**2YPX3**	6
Foam Refills				
Dial® Complete Professional	Original	1 gal	**41D375**	4
Dial® Professional Basics	Honeysuckle	1 gal	**41D374**	4

Description	LTX™ Mfr. Model	LTX™ Item No.	LTX™ Pkg. Qty.	ADX-12™ Mfr. Model	ADX-12™ Item No.	ADX-12™ Pkg. Qty.
Dispensers						
White	1920-04	**15E335**	1	8820-06	**12Z354**	1
Black/Chrome	1928-04	**15E336**	1	8828-06	**12Z355**	1
Refills						
PURELL® Advanced Hand Sanitizer Green Certified Foam	1904-02	**15E331**	2	8804-03	**12Z352**	3
PURELL® Advanced Hand Sanitizer Foam	1905-02	**15E332**	2	8805-03	**12R423**	3
PURELL® Advanced Hand Sanitizer Skin Nourishing Foam	1906-02	**15E333**	2	8806-03	**12Z353**	3
PURELL® Advanced Hand Sanitizer Green Certified Gel	1903-02	**15E330**	2	8803-03	**12Z351**	3

LTX™ 1200mL and ADX-12™ 1250mL Dispensing Systems

Lockable systems with a removable pump and a large sight window for easy refill check. Reliability guarantee. LTX™ models feature touchfree dispensing and virtually eliminate the need to change batteries. ADX-12™ models manually dispense sanitizer.


No. 15E335


No. 12Z354


No. 15E336


No. 12Z355


No. 15E331


No. 12Z352

ADX-12™ Dispensing Systems

Lockable systems manually dispense hand sanitizer. Feature a large sight window for easy refill check. Removable pump. Lifetime performance guarantee.


No. 12Z354


No. 12Z355


No. 12Z352

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
White	8820-06	**12Z354**	1
Black/Chrome	8828-06	**12Z355**	1
Refills			
PURELL® Advanced Hand Sanitizer Foam	8805-03	**12R423**	3
PURELL® Advanced Hand Sanitizer Green Certified Gel	8803-03	**12Z351**	3
PURELL® Advanced Hand Sanitizer Green Certified Foam	8804-03	**12Z352**	3
PURELL® Advanced Hand Sanitizer Skin Nourishing Foam	8806-03	**12Z353**	3

TFX™ 1200mL Touch-Free Dispensing Systems

Automatically dispenses correct amount of hand sanitizer needed. Feature large sight window for easy refill checks. ADA Compliant.


No. 1PKP9


No. 4HGW2

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2720-12	**1PKP9**	1
Nickel	2780	**4HGW2**	1
Refills			
PURELL® SF607™ Hand Sanitizer Foam	5384-02	**22F130**	2
PURELL® Advanced Hand Sanitizer Green Certified Foam	5391-02	**20W437**	2
PURELL® Advanced Hand Sanitizer Foam, 1200 mL	5392-02	**13G691**	2
PURELL® Advanced Hand Sanitizer Foam, 1000 mL	5592-02	**13G692**	2
PURELL® Advanced Hand Sanitizer E3 Rated Foam	5393-02	**2YPX6**	2
PURELL® Advanced Hand Sanitizer Skin Nourishing Foam	5398-02	**20W439**	2
PURELL® Advanced Hand Sanitizer Skin Nourishing Gel	5451-04	**5GJZ5**	4
PURELL® Advanced Hand Sanitizer Gel	5456-04	**13G698**	4
PURELL® Advanced Hand Sanitizer Green Certified Gel	5491-04	**20W440**	4
PURELL® VF481™ Hand Sanitizer Gel	5496-04	**3EUF4**	4

FMX-12™ Dispensing System

Manually dispenses hand sanitizer. Large sight window for easy refill check. One handed-push operation. ADA Compliant.


No. 1VZP4


No. 56JM47

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	5120-06	**1VZP4**	1
Refills			
PURELL® SF607™ Hand Sanitizer Foam	5184-04	**56JM45**	4
PURELL® Advanced Hand Sanitizer Green Certified Foam	5191-04	**56JM47**	4
PURELL® Advanced Hand Sanitizer Foam	5192-04	**56JM48**	4
PURELL® Advanced Hand Sanitizer E3 Rated Foam	5193-04	**56JM49**	4
PURELL® Advanced Hand Sanitizer Skin Nourishing Foam	5198-04	**56JM51**	4
PURELL® Advanced Hand Sanitizer Green Certified Gel	5091-04	**56JM39**	4
PURELL® VF481™ Hand Sanitizer Gel	6196-04	**56JM52**	4

NXT® 1000mL Dispensing System

SPACE SAVER™ design takes up a lot less room than traditional 800mL dispensers. Manually dispenses hand sanitizer. ADA Compliant.


No. 5VN15


No. 13G701

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	2120-06	**5VN15**	1
Refills			
PURELL® Advanced Hand Sanitizer Biobased Gel	0272-08	**20W425**	8
PURELL® Advanced Hand Sanitizer	2156-04	**13G701**	4
PURELL® Advanced Hand Sanitizer Soothing Gel	2137-08	**13G704**	8
PURELL® Advanced Hand Sanitizer Skin Nourishing Gel	2151-08	**13G696**	8
PURELL® Advanced Hand Sanitizer E3 Rated Gel	2163-08	**20W430**	8

800mL Bag-in-Box Dispensing System

Manually dispenses hand sanitizer. Features sanitary, sealed refill bags.


No. 5W629


No. 20W451

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Ceramic White	9621-12	**5W629**	1
Refills			
PURELL® Advanced Hand Sanitizer with Moisturizers	9657-12	**20W451**	1

PURELL ES® Everywhere System

Hand sanitizer system that can be placed anywhere it is needed. Kills 99.99% of most common germs that may cause illness. Compact size and multiple mounting options for ultimate adaptability. SANITARY SEALED™ refill helps prevent contamination. Easy-to-install refills snap in quickly for easy maintenance.

Description	Mfr. Model	Item No.
Hand Sanitizer Dispenser		
Manual Operation	1450-D8	**36NA62**
Hand Sanitizer		
Citrus Fragrance - Pkg. of 2	1450-08-2PK	**36NA63**
Citrus Fragrance - Pkg. of 6	1450-06	**36NA64**
Surface Mount		
Black	5830-08-BLK	**36NA65**
White	5840-08-WHT	**36NA66**


No. 36NA62


No. 36NA63


No. 36NA65


No. 36NA66

Purell®

Hand Sanitizer

Kills 99.99% of most common germs that may cause illness.


No. 12X257


No. 20W445


No. 20W433


No. 20W443


No. 20W448


No. 46C648


No. 52PG18


No. 13G694


No. 3AA15

Description	Size	Mfr. Model	Item No.	Pkg. Qty.
Gel				
Pump Bottle				
PURELL® Advanced Hand Sanitizer Green Certified Gel	8 oz	9691-12	**20W453**	1
PURELL® Advanced Hand Sanitizer Gel	2 oz	9606-24	**20W444**	24
	8 oz	9652-12	**20W449**	1
	12 oz	3659-12	**12X257**	12
	2,000 mL	9625-04	**20W445**	4
PURELL® Advanced Hand Sanitizer Soothing Gel	12 oz	3639-12	**21R992**	12
PURELL® Advanced Hand Sanitizer Skin Nourishing Gel	12 oz	3646-12	**38CC04**	1
PURELL® Advanced Hand Sanitizer Green Certified Gel	12 oz	3691-12	**20W433**	1
PURELL® Pal™ with Pump Bottle				
PURELL® Advanced Instant Hand Sanitizer	8 oz.	9600-PL1	**20W443**	1
Squeeze Bottle with Flip Top				
PURELL® Advanced Hand Sanitizer Gel	1 oz	3901-2C-250	**46C646**	250
	2 oz	9605-24	**13G703**	24
	4 oz	9651-24	**20W448**	24

Description	Size	Mfr. Model	Item No.	Pkg. Qty.
JELLY WRAP™ Carrier				
PURELL® Advanced Hand Sanitizer Gel	1 oz	3900-36-WRP	**46C648**	36
Single-Use Packets				
PURELL® Advanced Hand Sanitizer, Single Use	1.2 mL	9620-2M	**52PG18**	2000
Foam				
PURELL® Advanced Hand Sanitizer Green Certified Foam	535 mL	5791-04	**20W441**	1
PURELL® Advanced Hand Sanitizer Foam	45 mL	5692-24	**13G695**	24
	535 mL	5792-04	**13G694**	4
PURELL® Advanced Hand Sanitizer Skin Nourishing Foam	45 mL	5698-24	**3EUE3**	24
	535 mL	5798-04	**13G689**	4
PURELL® SF607™ Hand Sanitizer Foam	45 mL	5684-24	**22F133**	24
	535 mL	5784-04	**22F132**	4
Aerosol Foam				
PURELL® Foaming Hand Sanitizer	15 oz	9698-12	**3AA15**	1



No. 24WJ88


No. 4YCR4



No. 31HJ72

SCRUBS® Brand Wipes | Kimberly-Clark PROFESSIONAL | GOJO® | simple green

Heavy-Duty Hand Cleaner Wipes

Description	No. of Wipes	Sheet Size	Package Type	Mfr. Model	Item No.	Pkg. Qty.
Citrus Fragrance						
SCRUBS® Hand Cleaner Towel	100	8 in x 12 in	Individually Wrapped	42201	**24WJ91**	1
	72	10 in x 12 in	Bucket	42272	**24WJ88**	1
	30	10 in x 12 in	Dispensing Tub	42230	**24WJ90**	6
Kimberly-Clark Professional® Wypall® Waterless Cleaning Wipes	75	9½ in x 12 in	Bucket	91371	**4YCR4**	1
GOJO® Fast Towels	25	7 in x 9 in	Canister	6282-06	**31HJ70**	1
	60	9 in x 10 in	Pack	6285-06	**31HJ71**	6
	130	9 in x 10 in	Bucket	6298-04	**31HJ72**	4
	225	9 in x 10 in	Bucket	6299-02	**31HJ73**	2
GOJO® Scrubbing Towels	25	7 in x 9 in	Canister	6383-06	**31HJ74**	1
	72	10½ in x 12¼ in	Canister	6396-06	**31HJ75**	1
	80	10½ in x 12¼ in	Box	6380-04	**31HJ76**	1
	170	10½ in x 12¼ in	Bucket	6398-02	**31HJ77**	1
Unscented						
Simple Green® Safety Towels	75	10 in x 12 in	Tub	3810000613351	**22C621**	1


No. 31HJ79


No. 5EWA5

Hand Cleaning and Hand Sanitizing Wipes

TOUGH GUY

Hand cleaning wipes feature dual-textured material for heavy-duty hand cleaning. Hand sanitizing wipes kill 99.9% of most common germs that cause illness.

Fragrance	No. of Wipes	Sheet Size	Package Type	Item No.	Pkg. Qty.
Hand Cleaning Wipes					
Citrus	72	10½ in x 12¼ in	Canister	**31HJ79**	1
Citrus	170	10½ in x 12¼ in	Bucket	**31HJ78**	1
Hand Sanitizing Wipes					
Neutral	85	6 in x 8 in	Canister	**5EWA5**	1


No. 12H935



No. 1PKR3


No. 5FYP5


No. 3EUG2



No. 5MP31


No. 24CG23

Purell® | SCRUBS® Brand Wipes


No. 14L978


No. 2YNP1

Sanitizing Wipes

Kills 99.99% of most common germs that may cause illness.

Description	Packaging Type	No. of Wipes	Sheet Size	Mfr. Model	Item No.
Wipes					
PURELL® Hand Sanitizing Wipes	Bucket	270	6 in" x 6¾ in	9113-06	**12H935**
	Box	100	5 in" x 7 in	9022-10	**1PKR5**
	Box	1,000	5 in" x 7 in	9021-1M	**1PKR4**
	Box	4,000	5 in" x 7 in	9020-4M	**1PKR3**
PURELL® Cottony Soft Hand Sanitizing Wipes	Box	40	5 in" x 7 in	9025-12	**5FYP4**
	Box	120	5 in" x 7 in	9027-12	**5FYP5**
	Packet	1,000	5 in" x 7 in	9026-1M	**5FYP6**
PURELL® Hand Sanitizing Wipes, Alcohol Formula	Canister	80	6 in" x 7 in	9030-12	**3EUG1**
	Canister	175	6 in" x 7 in	9031-06	**3EUG2**
SCRUBS® Hand Wipes	Canister	85	6 in" x 8 in	90985	**5MP31**
SCRUBS® Lemon Hand Wipes	Canister	120	6 in" x 8 in	92991	**2FLL9**
PURELL® Hand Sanitizing Wipes	Canister	100	5¾ in" x 7 in	9111-12	**24CG23**
Dispensing Wipes					
PURELL® Hand Sanitizing Wipes Refill	Soft Pack	1,200	6 in" x 8 in	9118-02	**14L978**
PURELL® Hand Sanitizing Wipes Wall Dispenser	—	—	—	9019	**2YNP1**

GOJO

PRO™ TDX™ 5000mL and 2000mL Heavy-Duty Hand Cleaner Systems

Portion control system reduces total cost per wash. Rugged dispensers use sanitary-sealed bag-in-box refills (sold separately).

Description	Application	Fragrance	5000ML DISPENSER Mfr. Model	5000ML DISPENSER Item No.	5000ML DISPENSER Pkg. Qty.	2000ML DISPENSER Mfr. Model	2000ML DISPENSER Item No.	2000ML DISPENSER Pkg. Qty.
Dispensers								
Gray	—	—	7500-01	**3U550**	1	7200-01	**3U515**	1
Refills								
GOJO® SUPRO MAX™, Nondrying Formula	Oil, Grease, Paint, and Adhesives Removal	Floral	7572-02	**52RU29**	2	7272-04	**52RU28**	4
GOJO® SUPRO MAX™ Cherry with Gentle Scrubbers		Cherry	7582-02	**52RU25**	2	7282-04	**52RU24**	4
GOJO® NATURAL* ORANGE™ Smooth	Dirt, Oil and Grease Removal	Citrus	—	—	—	7250-04	**12V413**	4
GOJO® NATURAL* ORANGE™ Pumice		Citrus	7556-02	**12V416**	2	7255-04	**12V414**	4
GOJO® MULTI GREEN® with Nonabrading Scrubbing Particles	Oil, Grease, Paint, Tar, and Asphalt Removal	Citrus	7565-02	**12V417**	2	7265-04	**12V415**	4
GOJO® Cherry Gel Pumice Hand Cleaner	Heavy Dirt, Oil and Grease Removal	Cherry	7590-02	**5DZN7**	2	7290-04	**5DZN8**	4
GOJO® RICH PINK™ Antibacterial Lotion Soap	—	Floral	7520-02	**3U551**	2	7220-04	**5FZ07**	4

**** Natural Citrus ingredient.***



No. 3U550



No. 52RU28



No. 5DZN7


No. 3FPP3


No. 3FPN9

TOUGH GUY

5000mL Heavy-Duty Hand Cleaner Soap System

Rugged bag-in-box dispenser uses sanitary, sealed refill bags. Portion control reduces total cost per wash.

Description	Fragrance	Item No.	Pkg. Qty.
Dispenser			
Foam Soap Dispenser	—	**3FPP3**	1
Refills			
Citrus Hand Cleaner with Nonabrading Scrubbing Particles	Citrus	**12V418**	2
Cherry Gel Pumice Hand Cleaner	Cherry	**3FPN9**	2

REGISTER NOW!

Enjoy These Features & More!

- ☑ **Access** your pricing
- ☑ **View** order history
- ☑ **Save favorites** to your personal lists
- ☑ **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!


No. 43NR78


No. 451C37


No. 449W24



No. 43NT24

zep PROFESSIONAL

Industrial Hand Cleaner Systems

Description	Mfr. Model	Item No.	Pkg. Qty.
1-Gal. Dispenser and Pump			
Aluminum and Nylon Dispenser, Gray	600101	**43NR78**	1
Top-Mount Pump, White	666901	**451C37**	1
1-Gal. Refills			
Cherry Bomb with Emollients, Pumice	095124	**43NT33**	4
Lemon with Lanolin, Pumice, Solvent-Free	R54824	**449W33**	4
Orange with Aloe Vera, Citrus Based, Pumice	302824	**449W24**	4
Soy-Based, Walnut Shells	084923	**43NT24**	4

GOJO

Hand Cleaner

Creme cleans with or without water. No harsh solvents.

Description	Application	Mfr. Model	Item No.
GOJO® Lemon Pumice	Grease, Oil, Tar	0915-06	**6Z635**
GOJO® ORIGINAL FORMULA™ Hand Cleaner	Grease, Tar, Oil	1115-06	**5FX84**



No. 6Z635



No. 5FX84

GOJO

Heavy-Duty Hand Cleaners

Description	Size	Application	Fragrance	Mfr. Model	Item No.	Pkg. Qty.
GOJO® Cherry Gel Pumice Hand Cleaner	10 oz	Heavy Dirt, Grease and Soil Removal	Cherry	2354-08	**3EUF7**	1
	0.5 gal			2356-04	**3EUF8**	1
	1 gal			2358-02	**3EUF9**	1
GOJO® MULTI GREEN® ECO Hand Cleaner	64 oz	Oil, Grease, Tar, and Paint Removal		0989-04	**401Y22**	4
GOJO® NATURAL* ORANGE™ Pumice	14 oz	Dirt, Oil and Grease Removal	Citrus	0957-12	**12V410**	12
	0.5 gal			0958-04	**12V411**	1
	1 gal			0955-04	**12V409**	1
GOJO® NATURAL* ORANGE™ Smooth	14 oz			0947-12	**12V408**	12
	0.5 gal			0948-04	**13P643**	1
	1 gal			0945-04	**12V407**	1

**** Natural Citrus ingredient.***



No. 3EUF8



No. 401Y22



No. 12V409



No. 36XX43



No. 36XX44



No. 49NW20



No. 49NW21



No. 41C264



No. 54ZV60

Glass Cleaners

Remove fingerprints, smudges, and more. For use on glass, mirrors, chrome, plastic, and stainless steel. No. 41C264 is a foaming cleaner that clings to vertical surfaces and leaves no spots.

Description	Size	Item No.	Pkg. Qty.
Liquid			
Glass Cleaner Spray	1 qt.	**36XX43**	1
Glass Cleaner Concentrate	1 qt.	**36XX44**	1
Glass & Multisurface Cleaner, RTU	1 gal.	**49NW20**	1
Glass & Multisurface Cleaner Concentrate, 1:10 Dilution	1 gal.	**49NW21**	1
Aerosol			
Glass & Utility Cleaner	20 oz.	**41C264**	12
Glass & Multisurface Cleaner, RTU	1 qt.	**49NW23**	1
Wipes			
Glass Cleaner Wipes	90 ct.	**54ZV60**	1



No. 3JW49



No. 3HUT9



No. 56GW49



No. 4TKD9



No. 56LL39



No. 2ZWJ9

Glass and Multisurface Cleaners

Glass Cleaners—Loosen soil upon contact. Remove fingerprints and smudges without streaking or leaving a film. Also can be used to clean chrome, stainless steel, mirrors, ceramic tile, enamel, plastic, and other hard surfaces. Windex® cleans with Ammonia-D® for a streak-free shine and contains no phosphates. No. 4TKD9 is made with plant- and mineral-based cleaning ingredients and is EPA Safer Choice Certified.

Glass and Multisurface Cleaners—Use on most washable surfaces, including chrome, stainless steel, bathroom fixtures, and laminate countertops. No. 2ZWJ9 is made from 98% naturally derived biodegradable ingredients.

Description	Size	Brand	Item No.	Pkg. Qty.
Glass Cleaners				
Ammoniated Liquid				
Windex® Original Glass and Surface Cleaner	12 oz.	Windex	**20J197**	12
Windex® Original Glass and Surface Cleaner, Trigger Sprayer	32 oz.		**3JW49**	12
Windex® Original Glass and Surface Cleaner, Refill Jug	1 gal.		**3U560**	1
Windex® Powerized	5 gal.		**20J199**	1
Zep® Professional RTU Glass Cleaner	1 qt.	Zep Professional	**3HUT9**	1
Ammoniated Wipes				
Windex® Wipes	35 ct.	Windex	**56GW49**	12
Nonammoniated Liquid				
ECOS PRO Glass Cleaner, Lavender	32 oz.	Ecos Pro	**4TKD9**	1
ECOS PRO Glass Cleaner, Lavender	1 gal.		**39N077**	1
Earth Friendly Window Kleener, Lavender	1 gal.		**4TKE1**	1
Nonammoniated Aerosol				
Zep® Professional Foaming Glass Cleaner	20 oz.	Zep Professional	**5DPV0**	1
Glass and Multisurface Cleaners				
Liquid				
Glance® Ammoniated Glass and Multisurface Cleaner	32 oz.	Diversey	**56LL39**	12
Green Works® Glass & Surface Cleaner	32 oz.	Green Works	**2ZWJ9**	12


No. 11Y672


No. 38V849


No. 20K991


No. 20K969


No. 2ZWJ7


No. 20K971

Bathroom Disinfectant Cleaners

Remove soap scum, soil, and grime while deodorizing and disinfecting in 1 step. Eliminate the need for multiple cleaners. Use on showers, tile, tubs, and bathroom sinks.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Crew® NA SC Non-Acid Bowl & Bathroom Disinfectant Cleaner	1.4L	Diversey	**11Y672**	2
Lysol® Bathroom Cleaner	22 oz.	Lysol	**38V849**	12
Vani-Sol® Bulk Disinfectant Washroom Cleaner	1 gal.	Vani-Sol	**20K991**	4
Trigger Sprays				
Clorox® Disinfecting Bathroom Cleaner	30 oz.	Clorox	**20K969**	9
Green Works® Bathroom Cleaner	24 oz.	Green Works	**2ZWJ7**	12
Lysol® Disinfectant Basin Tub & Tile Cleaner	32 oz.	Lysol	**20K986**	12
Tilex® Soap Scum Remover & Disinfectant	32 oz.	Tilex	**20K971**	9

Instant Disinfectant/ Mildew Removers

Disinfect and kill 99.9% of germs. Remove and destroy mold spores and mildew stains without scrubbing.

Size	Item No.	Pkg. Qty.
32 oz.	**1AU33**	9
128 oz.	**20K972**	4


No. 1AU33


No. 20K972


No. 4LEY4


No. 4TMK3


No. 3UP44

Lime Scale Removers

Remove mineral deposits, hard water stains, soap scum, and lime deposits. Safe on bathroom fixtures.

Description	Size	Brand	Item No.	Pkg. Qty.
CLR® All-Purpose Cleaner Calcium, Lime & Rust Remover	28 oz.	CLR	**4LEY3**	1
	1 gal.		**4LEY4**	1
	5 gal.		**4LEY5**	1
Zep Professional® Calcium and Lime Remover	1 gal.	Zep Professional	**4TMK3**	1
	5 gal.		**4TMK5**	1
Simple Green® Lime Scale Remover	32 oz.	Simple Green	**3UP43**	1
	1 gal.		**3UP44**	1


No. 4TKD1


No. 2GVN7


No. 39F168


No. 4TKC9


No. 20K983

Bathroom Cleaners

Remove soap scum, soil, and grime. Use on showers, tile, tubs, and bathroom sinks.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Earth Friendly Products® Parsley Plus All Purpose Kitchen Cleaner	1 gal.	Ecos Pro	**4TKD1**	1
Simple Green® Clean Building™ Bathroom Cleaner	1 gal.	Simple Green	**2GVN7** *	2
ECOS PRO Kitchen & Bathroom Cleaner, Parsley	1 gal.	Ecos Pro	**39N014**	1
Trigger Sprays				
Goo Gone® Grout & Tile Cleaner	14 oz.	Goo Gone	**39F168**	1
ECOS PRO Kitchen & Bathroom Cleaner, Parsley Plus	32 oz.	Ecos Pro	**4TKC9**	1
Aerosol				
Kaboom Bathroom Cleaner, Fresh	19 oz.	Kaboom	**20K983**	8

**** Meets Green Seal® standards for industrial and institutional cleaners based on its reduced human and aquatic toxicity and reduced smog production potential.***



No. 2LEF5


No. 3EEF2



No. 1AU29



No. 20K968



No. 55ED92



No. 55ED93



No. 49RM14


No. 10A369



No. 3HUK9



No. 20K970



No. 38P097



Toilet Bowl Cleaners

Clean, disinfect, and deodorize toilet bowls and urinals. No. 3EEF2 and 2LEF5 are not disinfectants.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Tough Guy® 23% Hydrochloric Acid-Based	32 oz.	Tough Guy	**2LEF5**	1
Tough Guy® Hydrochloric Acid-Based	32 oz.		**2LEF7**	1
Tough Guy® Nonacid Bath and Bowl Cleaner	32 oz.		**2LEF8**	1
Tough Guy® Automatic Blue	9 oz.		**3EEF2**	12
Clorox® Toilet Bowl Cleaner with Bleach	24 oz.	Clorox	**1AU29**	12
Clorox® Toilet Bowl Cleaner	24 ct.		**20K968**	12
Lysol® Power & Free™	24 oz.	Lysol	**55ED92**	9
Lysol® Complete Clean™ with Lime & Rust Remover	24 oz.		**55ED93**	9
Lysol® Complete Clean™ Power	32 oz.		**49RM14**	12
Crew® Clinging Toilet Bowl Cleaner	32 oz.	Diversey	**10A369**	1
Crew® Heavy Duty Toilet Bowl Cleaner	32 oz.		**11Y670**	1
Crew® NA SC Non-Acid Bowl & Bathroom Disinfectant Cleaner	1.40L		**11Y672**	2
Misty Toilet Bowl Cleaner, Mint	32 oz.	Misty	**20H874**	12
Misty Acidic Toilet Bowl Cleaner	32 oz.		**20H873**	12
Zep Professional Cleaner Peroxide	32 oz.	Zep Professional	**3HUK9**	1
Tablets				
Clorox® Automatic Toilet Bowl Cleaner with Bleach	3.50 oz.	Clorox	**20K970**	6
Toilet Bowl Wands				
Clorox® Toilet Wand Disposable Cleaning System	1 lb.	Clorox	**38P097**	6
Clorox® Toilet Wand Disposable Refills	6 ct.		**20K967**	8


No. 2LEF6



No. 4BU74



No. 3U557



No. 1CH06

Cleansers

Scour tough stains and soils on sinks, toilet bowls, ceramic tile, and pots and pans. Clean without scratching.



Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Tough Guy® Creme Cleanser	1 qt.	Tough Guy	**2LEF6**	1
Comet® Creme Cleanser with Chlorinol®	32 oz.	Comet	**436P88**	10
ECOS PRO Creamy Cleaner, Lemon	17 oz	Ecos Pro	**39N017**	1
Clorox® Bleach Cream Cleanser	32 oz.	Clorox	**38P098**	8
Soft Scrub® Liquid Cleanser with Bleach	36 oz.	Soft Scrub	**4BU74**	6
Soft Scrub® Lemon Cleanser	36 oz.		**1XEJ1**	6
Soft Scrub® Liquid Cleanser	24 oz.		**20K988**	9
Soft Scrub® Liquid Cleanser with Bleach	24 oz.		**20K989**	9
Powders				
Comet® with Chlorinol®	21 oz.	Comet	**3U557**	24
Ajax® with Bleach	21 oz.	Ajax	**1CH06**	24



No. 20J157



No. 20J159



No. 20K964



No. 20K966


No. 20H876


No. 2CYE8



No. 20J964


No. 3HUN1



Drain Openers and Maintainers

Open drains, clear clogs, and won't harm pipes when used as directed. Gel cleaners cling to clogs longer to clear better. Liquid Alive® enzyme cleaners produce bacteria to digest and liquify organic matter, grease, and food to eliminate malodors and reduce soils.

Description	Size	Brand	Item No.	Pkg. Qty.
Drain Openers				
Drano® Liquid Clog Remover	32 oz.	Drano	**20J157**	12
Drano® Gel Clog Remover	32 oz.		**20J159**	12
	80 oz.		**20J158**	6
Liquid-Plumr® Heavy-Duty Clog Remover	80 oz.	Liquid Plumr	**20K964**	6
Liquid-Plumr® Pro-Strength Slow Flow Fighter® Clog Remover	17 oz.		**20K966**	12
Zep Professional Alkaline Drain Opener	1 qt.	Zep Professional	**3HUN2**	1
Misty® Halt Drain Opener	1 qt.	Misty	**20H876**	12
Drain Maintainers				
Tough Guy® Bacterial Drain Maintainer	32 oz.	Tough Guy	**2CYE8**	1
Liquid Alive® Enzyme Producing Bacteria Drain Maintainer	32 oz.	Dymon	**21A877**	12
	1 gal.		**20J964**	4
	5 gal.		**20J965**	1
Liquid-Plumr® Liquid Drain Maintainer	32 oz.	Liquid Plumr	**20K965**	9
Zep Professional Liquid Drain Maintainer	5 gal.	Zep Professional	**3HUN1**	1


No. 2NXW3


No. 2ZXE7


No. 2ZXE8


No. 10G737


No. 3EEE9


No. 3EEE7


No. 2ZXE9

Urinal, Bowl, and Toilet Blocks

Description	Fragrance	Size	Brand	Item No.	Pkg. Qty.
Urinal Blocks					
With Non Para Block	Cherry	4 oz.	Tough Guy	**2NXW3**	12
With Para Block	Cherry	4 oz.		**2ZXE6**	12
With Para Block with Enzymes	Springtime	4 oz.		**3EEF6**	12
Bowl Blocks					
With Para Block	Cherry	3 oz.	Tough Guy	**2ZXE7**	12
With Para Block with Enzymes	Springtime	3.5 oz.		**3EEF7**	12
Bowl Blocks with Rim Hangers					
With Non Para Block	Evergreen	1.8 oz.	Tough Guy	**2ZXE8**	12
With Non Para Block with Enzymes	Springtime	3 oz.		**3EEF8**	12
Bowl Clips					
30-Day Release	Mango	4" x 2"	Tough Guy	**10G737**	12
30-Day Release	Spiced Apple	4" x 2"		**10G738**	12
30-Day Release	Herbal Mint	4" x 2"		**10G736**	12
Toilet Tank Blocks					
With Blue Non Para with Enzymes	Unscented	3 oz.	Tough Guy	**3EEE9**	24
Super Block					
With Para Block	Cherry	20 lb.	Tough Guy	**3EEE7**	1
Wall Blocks					
With Para Block	Cherry	24 oz.	Tough Guy	**2ZXE9**	6
Wall Block Cabinet					
Solid Based Air Freshener Dispenser for Wall Blocks	Dispenser Only	—	Impact	**1CG53**	1

Enzyme-Producing Bacterial Odor Eliminators


No. 2CYF2


No. 10A371


No. 20J967

Digest and eliminate organic malodors. Nontoxic to animals and humans and won't stain carpets, upholstery, or water-safe surfaces.

Description	Size	Brand	Item No.
Tough Guy® Bio Deodorizer	1 gal.	Tough Guy	**2CYF2**
BreakDown™ Odor Eliminator, Fresh	1 gal.	Diversey	**10A370**
BreakDown™ Odor Eliminator, Cherry Almond	1 gal.		**10A371**
Liquid Alive® Odor Digester	32 oz.	Dymon	**21A878**
Liquid Alive® Odor Digester	1 gal.		**20J967**
Liquid Alive® Odor Digester	5 gal.		**20J968**
Liquid Alive® Odor Digester	55 gal.		**20J969**

Odor Absorber Gel Sponges

Eliminate airborne odors while reducing mold and mildew. Made of soap-based gel with active charcoal; nontoxic and environmentally friendly. Useful against paint, solvent, smoke, cooking, chemical spill, and gasoline odors.


No. 1YRP8

Description	Size	Item No.	Pkg. Qty.
Odor Absorber Gel Sponges	½ lb.	**1YRP8**	12
Odor Absorber Gel Sponges	1 lb.	**1YRP9**	6
Odor Absorber Gel Sponges	4 lb.	**1YRR1**	4
Wall Mount Bracket for Nos. 1YRP8, 1YRP9, 1YRR1	—	**1YRR2**	1

Urinal Screens

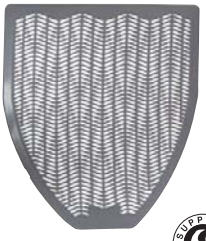

No. 2ZXE5


No. 2ZXE3

Description	Fragrance	Size	Item No.	Pkg. Qty.
Urinal Screens				
Red	Cherry	2.65 oz.	**2ZXE5**	12
Red	Cherry	2.72 oz.	**15F538**	12
Blue	Unscented	2.65 oz.	**2ZXE4**	12
Blue	Bubblegum	2.72 oz.	**15F539**	12
Urinal Screens with Block				
Blue/White with Non Para Block	Apple	4 oz.	**2ZXE3**	12
Pink/White with Para Block	Cherry	4 oz.	**2ZXE2**	12
Urinal Screens with Block and Enzymes				
Orange with Non Para Block	Mango	58g	**36WE50**	10
Pink with Non Para Block	Spiced Apple	58g	**36WE51**	10
Green with Non Para Block	Herbal Mint	58g	**36WE52**	10
Green with Non Para Block	Cucumber Melon	58g	**36WE53**	10
Blue/White with Non Para Block	Springtime	3 oz.	**3EEE6**	12
White with Para Block	Springtime	3 oz.	**3EEE5**	12


No. 36WE50


No. 3EEE5


No. 2LHJ9


No. 2LHK1

Urinal and Toilet Floor Mats

- Gray color

Description	L	W	H	Fragrance	Brand	Item No.	Pkg. Qty.
Urinal Floor Mats	20⅜"	18²⁹⁄₆₄"	1¹¹⁄₁₆"	Unscented	Tough Guy	**49EV65**	6
	20⅜"	17"	⅛"	Apple	Impact	**2LHJ9**	6
Toilet Floor Mats	20⅜"	18²⁹⁄₆₄"	1¹¹⁄₁₆"	Unscented	Tough Guy	**49EV67**	6
	21⅝"	23"	⅛"	Apple	Impact	**2LHK1**	6


No. 2CYE6


No. 56LL36


No. 2TEG7

Odor Counteractants

Effectively control odor from cigarette smoking, mold, mildew, cooking, drains, and bathrooms.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
RTU, Fresh	1 qt.	Tough Guy	**2CYE6**	1
Concentrate, Floral	1 gal.	Tough Guy	**2CYE7**	1
OdoBan®, Concentrate, Eucalyptus	1 gal.	Odoban Professional	**2TEG6**	4
OdoBan®, Concentrate, Lavender	1 gal.	Odoban	**36P407**	4
Deodorizer, Concentrate, Clean Breeze	1 gal.	Air Wick	**20L007**	4
Odor Eliminator, Concentrate, Blue Sky	1 gal.	Zep	**450Z35**	4
Trigger Sprays				
Good Sense® Odor Eliminator, RTU, Fresh	32 oz.	Diversey	**56LL36**	12
Good Sense® Odor Eliminator, RTU, Apple	32 oz.	Diversey	**56LL37**	12
OdoBan®, RTU, Eucalyptus	32 oz.	Odoban Professional	**2TEG7**	12
Odor Neutralizer, RTU, Pleasant Clean	1 qt.	Zep Professional	**3AGD5**	1
Odor Eliminator, RTU, Floral	1 qt.	Zep	**54ZK46**	12
Odor Eliminator, RTU, Pleasant	32 oz.	Zep	**43NR55**	12
Granules				
Dumpster Deodorizer, RTU, Cherry	25 lb.	Zep Professional	**20H887**	1



No. 2DBY9 | No. 3U563 | No. 20L006 | No. 3AGD7 | No. 20L021 | No. 20J970 | No. 401Z56

Air Fresheners

Dry air fresheners combine fragrance and odor counteractants to quickly eliminate unwanted odors. Air fresheners leave behind a clean fragrance and no messy residue.

Description	Size	Item No.	Pkg. Qty.
Tough Guy®, Air Fresheners			
New Blossom®	10 oz.	**2DBY9**	1
Morning Orchard®	10 oz.	**2DBZ1**	1
Tough Guy® Air Freshener, Bahama Breeze®	10 oz.	**2DBZ3**	1
Vanilla	10 oz.	**2DBZ5**	1
Peach	10 oz.	**2DBZ7**	1
Cucumber Melon	10 oz.	**2DBZ9**	1
Linen	10 oz.	**2DCA2**	1
Orange Delight	10 oz.	**2DCA4**	1
Glade® Air Freshener			
Super Fresh	13.80 oz.	**3U563**	12

Description	Size	Item No.	Pkg. Qty.
Air Wick® Air Fresheners			
Lavender/Chamomile	8 oz.	**20L006**	12
Fresh Waters	8 oz.	**20L008**	12
Zep® Professional Aerosol Deodorizer			
Pleasant Fresh	16 oz.	**3AGD7**	1
Arm & Hammer® Deodorizing Air Freshener			
Fresh Scent	7 oz.	**20L021**	12
Dymon® Dry Breeze Air Fresheners			
Sugar/Spice	10 oz.	**20J970**	12
Vanilla	10 oz.	**20J972**	12
TimeMist® Premium Air Fresheners			
Clean and Fresh	10 oz.	**401Z56**	12
Mango	10 oz.	**401Z57**	12



No. 39F969



No. 33NY30



No. 39F976



No. 33NY31



No. 39F985

Natural Odor Eliminators

freshwaveIAQ Natural Odor Eliminator

Natural, nontoxic ingredients bond with odor molecules to completely eliminate smells in the air, woven materials, confined spaces, and anywhere else odors linger. Gels feature a continuous release formula to provide safe, effective odor control 24/7. Odor machines disperse submicron air freshening molecules into the air for greater penetration. Carpet and upholstery products penetrate deep into carpets and textiles to remove odor molecules.

Description	Size	Item No.
Gels		
Continuous Release	8 oz.	**39F969**
	16 oz.	**39F970**
	24 oz.	**39F971**
	2 gal.	**39F972**
	5 gal.	**39F973**
Gel Wall Mount Unit		
For Use With Mfr. No. 545	8 oz.	**20PG73**
Air and Surface		
Spray	32 oz.	**39F976**

Description	Size	Item No.
Ready-To-Use Liquid	1 gal.	**39F977**
	5 gal.	**39F978**
Concentrated Liquid	64 oz.	**39F979**
	5 gal.	**39F980**
Stationary Odor Machine	—	**33NY30**
Portable Odor Machine	—	**33NY31**
Carpet and Upholstery		
Ready-To-Use Liquid	1 gal.	**39F985**
	5 gal.	**39F986**
Concentrated Liquid	64 oz.	**39F987**
	5 gal.	**39F988**



Air Sanitizers

Kill odor-causing bacteria while sanitizing the air. Unlike air fresheners that only mask odors, sanitizing spray eliminates odor problems at the source.

Description	Size	Item No.	Pkg. Qty.
Lysol® Air Sanitizer, Revitalizing Freesh Breeze	10 oz.	**20L029**	12
Energizing Citrus Zest	10 oz.	**20L030**	12
Rejunvenating Morning Linen	10 oz.	**20L031**	12



No. 4KN49



No. 2TEG3



No. 2TEH1

Fogging Deodorizers

Penetrate cracks and crevices to destroy odors. Fogmaster jr.™ No. 2TEH1 uses Fogging Deodorizer No. 2TEG3.

BIG D® OdoBan® Professional Series

Description	Size	Item No.	Pkg. Qty.
Big D® After-Fire Odor Control Fogger	5 oz.	**4KN49**	12
Big D® After-Fire Odor Control	1 gal.	**4KN48**	1
OdoBan® Fogging Deodorizer	1 gal.	**2TEG3**	4
OdoBan® Fogmaster jr.™	1 qt.	**2TEH1**	1



No. 20L012



No. 20L011

Scented Oils

Provide consistent, long-lasting air freshening. Each refill lasts up to 45 days.

Description	Item No.	Pkg. Qty.
Twin Refill, Lavender/Chamomile	**20L012**	2
Twin Refill, Fresh Waters	**20L014**	2
Twin Refill, Paradise Retreat	**45CC85**	6
Twin Refill, Summer Delight	**489J04**	6
Oil Based Air Freshener Dispenser	**20L011**	6



No. 39E509



No. 20L035

Solid Air Fresheners

Gel-based formula stops odors and leaves a clean scent. Adjustable time-release fragrance. Last up to 30 days.

Description	Size	Item No.	Pkg. Qty.
Air Freshener, After the Rain® Scent	7.0 oz.	**39E509**	12
Air Freshener, Raspberry Framboise Scent	7.0 oz.	**39E510**	12
Air Freshener Dispenser Bracket	—	**20L035**	6

Metered Dispensers

Nos. 40CA23 and 40CA24 have an LCD screen with visual countdown in days to change the refill, and a low battery red LED indicator. Easy programming automatically calculates the time interval between sprays allowing the usage of the refill when you need it. The working schedule can be set by days of the week, hours to work, start time, and refill type (30, 90 days refill). 800 cu. ft. coverage.

Description	Item No.	Pkg. Qty.
3000/9000 Aerosol System Programmable Dispensers		
3⅜"W x 8¼"H	**40CA23**	**1**
8 15/32" W x 8 15/32" H	**2ZXC1**	**1**
Micro Aerosol System Programmable Dispenser		
3"W x 6⅞"H	**40CA24**	**1**

Description	3000 SERIES Item No.	9000 SERIES Item No.	MICRO SYSTEM Item No.	Pkg. Qty.
Refills				
Linen	**2ZXF3**	**2ZXC2**	**2ZXG2**	**1**
Citrus	**2ZXF4**	**2ZXC3**	**2ZXG3**	**1**
Bouquet	**2ZXF5**	**2ZXC4**	**2ZXG4**	**1**
Orchard	**2ZXF6**	**2ZXC5**	**2ZXG5**	**1**
Cinnamon	**2ZXF7**	**2ZXF1**	**2ZXG6**	**1**
Mango	**2ZXF8**	**2ZXF2**	**2ZXG7**	**1**
Variety Pack (2 Linen, 2 Citrus, 2 Bouquet)	**2ZXF9**	**2ZXC6**	**2ZXG8**	**6**



No. 40CA23


No. 2ZXF3



No. 2ZXG2

Metered Dispensers

TimeMist®

- More fragrances are available, see Grainger.com®

Dispensers—Classic models activate a refill every 15 min., 24 hours a day for 30 days. 6000 cu. ft. coverage. The Settings Dispenser features 3 time settings and allows users to control the spray intensity and frequency for up to 90 days.

The Programmable Plus Dispenser allows 1- to 59-min. spray intervals plus an audible alarm option. The Virtual Janitor Dispenser provides an automatic cleaning and deodorizing system for urinals and commodes. 24/7 operation, refill lasts up to 30 days. 6000 cu. ft. coverage.

Oil-Based Dispenser—Lasts up to 60 days and cover 3000 sq. ft. Polymer wick inside refill absorbs essential oils and evaporates out, continuously releasing fragrance without a power source.

Refills—Counteract odors and leave a pleasant scent. Air sanitizer refills remove airborne bacteria.

Description	Item No.	Pkg. Qty.
Metered Air Freshener Dispensers		
Classic Dispenser, White	**20H167**	**1**
Settings Dispenser, White	**20H168**	**1**
Settings Dispenser, Black	**401Z63**	**6**
Settings Micro Dispenser, Black	**401Z60**	**6**
Programmable Plus Dispenser, White	**401Z64**	**6**
Automated Air Freshener Dispenser		
Virtual Janitor Dispenser, White	**401Z73**	**6**
Oil Based Air Freshener Dispenser		
Air Freshener Dispenser, 6000 cu.ft.	**20H220**	**1**

Description	Item No.	Pkg. Qty.
Metered Micro 30-Day Dispenser Refills		
Clean and Fresh	**20H205**	**12**
Citrus	**20H206**	**12**
Mango	**20H209**	**12**
Country Garden	**401Z61**	**12**
French Kiss	**401Z62**	**12**
Metered 90-Day Dispenser Refills		
Mango	**401Z66**	**4**
Cherry	**401Z65**	**4**
Premium Metered 30-Day Dispenser Refills		
Pomegranate Grapefruit	**401Z67**	**12**
Wildwood Fig	**401Z69**	**12**
Desert Bloom	**401Z71**	**12**

Description	Item No.	Pkg. Qty.
Premium Metered Air Care Dispenser Refills		
Bamboo and Green Tea	**401Z68**	**12**
Seaside Breeze	**401Z70**	**12**
Virtual Janitor Metered 30-Day Dispenser Refills		
Citrus	**401Z74**	**12**
Clean and Fresh	**401Z75**	**12**
Mango	**401Z76**	**12**
Metered Dispenser Refills		
Variety Pack, (2) Mango, (2) Citrus, (2) Spring Flowers, (2) French Kiss, (2) Dutch Apple Spice, (2) Country Garden	**20H199**	**12**
Passion Violet	**20H195**	**12**
Spring Flowers	**20H187**	**12**
Country Garden	**20H197**	**12**
French Kiss	**20H188**	**12**
Cucumber Melon	**20H193**	**12**
Caribbean Waters	**20H192**	**12**
Pina Colada	**20H201**	**12**
Dutch Apple	**20H203**	**12**
Green Apple	**20H186**	**12**
Voodoo Berry	**20H198**	**12**
Cherry	**20H190**	**12**
Mango	**20H191**	**12**
Citrus	**20H189**	**12**
Baby Powder	**20H196**	**12**
Clean and Fresh	**20H185**	**12**


No. 20H167


No. 401Z60



No. 20H220


No. 20H199

TCell™ Oil-Based Air Freshener Dispensers

Rubbermaid Commercial Products

Dispensers utilize a unique patented delivery system to consistently deliver a precise, timed dose of high-quality fragrance blended with Microtrans®, a true odor neutralizer, for up to 60 days. Operates silently without batteries and covers 6000 cu ft. No propellants or added VOCs. Recyclable refill components. No. 14L990 is vandal resistant. White color.

Description	Color	Item No.	Pkg. Qty.
Dispensers			
Standard	White	**14L980**	1
Heavy Duty	White	**14L990**	12

Fragrance	Item No.	Pkg. Qty.
Refills		
Citrus	**14L984**	6
Cucumber Melon	**14L991**	6
Polar Mist	**14L982**	6
Wakening Spring	**14L981**	6
Vanilla Cream	**14M001**	6

Fragrance	Item No.	Pkg. Qty.
Blue Splash	**14L983**	6
Apple Cinnamon	**14M002**	6
Tropical Sunrise	**14L992**	6
Sugar Cookie	**14L999**	6
Mango Blossom	**14L989**	6
Pure	**14L994**	6
Crystal Breeze	**14L987**	6
Summer Sorbet	**14L993**	6
Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**14L988**	5


No. 14L980


No. 14L990


No. 14L988

Degreaser Types

SOLVENT—
As a degreaser component, a solvent is a substance in which another substance is dissolved. Butyl is the most commonly found solvent in degreasers used to dissolve petroleum grease and fatty oils.

NATURAL SOLVENT—
Biodegradable natural solvents are derived from organic sources. Commonly used natural solvents are citrus (usually d-limonene), pine (derived from pine oil), and soy.

NON-SOLVENT—
Popular in states that restrict certain solvents, this option does not contain any solvents, offering added safety.



No. 39F166



No. 22D033



No. 38P102



No. 10K004



No. 5DPV6



No. 33X332



No. 33X333


No. 33X322



No. 2ZWL3

TOUGH GUY · GOO GONE · FORMULA 409 · CLOROX · KRUD KUTTER · zep PROFESSIONAL · Dymon Brand · Diversey · DAWN PROFESSIONAL

Solvent Degreasers

Formula 409®—Heavy-duty degreasing, with no filming or streaking. Remove tough grease and dirt - fast. Clean range hoods, stainless steel, and glazed tile floors.Perfect for use in commercial kitchens, schools, office break rooms and foodservice facilities. Eliminate waste with Smart Tube® technology, to spray all the liquid to the bottom of the bottle.

Krud Kutter® Concentrated Cleaner/Degreaser—Biodegradable formula cuts grease, grime, oil, tar, and wax. Safe for use on carpets and fabrics. Safer Choice certified.

Description	Recommended Dilution	Container	Item No.
Tough Guy® Butyl	RTU	1 qt. Trigger Spray Bottle	49NW14
		1 gal. Jug	49NW13
		5 gal. Pail	49NW16
		55 gal. Drum	49NW18
Goo Gone® Kitchen Degreaser		14 oz. Spray Bottle	39F166
Formula 409® Heavy-Duty Degreaser		32 oz. Trigger Spray Bottle	22D033
		1 gal. Jug	22D034
Clorox® Multipurpose Cleaner/Degreaser		32 oz. Spray Bottle	38P102
		1 gal. Jug	38P101
Krud Kutter® Cleaner/Degreaser and Stain Remover		32 oz. Trigger Spray Bottle	10K004
		1 gal. Jug	10K005
		5 gal. Jug	10K006
		55 gal. Drum	10K007
Zep® Professional Fast-Evaporating		20 oz. Aerosol Can	4TML4
		55 gal. Drum	4TLJ1
Zep® Professional Foaming Heavy-Duty		20 oz. Aerosol Can	5DPV6
Zep® Professional Heavy-Duty	1:5 to 1:128	1 gal. Jug	3HUX9
		5 gal. Pail	3HUY1
		55 gal. Drum	4TLH6
Zep® Professional VOC-Compliant Solvent	RTU	1 gal. Non Aerosol Can	3HUW6
Zep® Professional Brominated		5 gal. Pail	6YCY7
Zep® Professional Self-Emulsifying	1:1 to 1:10		3HUW3
Zep® Professional Utility	1:2 to 1:40	55 gal. Drum	6YCZ4
Dymon® NATURAL FORCE® Foaming Degreaser	RTU	20 oz. Aerosol Can	6UAY0
Diversey™ Suma® Break-Up® Heavy Duty Foaming Grease-Release Cleaner		1 gal. Jug	33X332
Diversey™ Suma® Kitchen Degreaser	1:64	5L Hose End Connection Bottle	33X333
Diversey™ Multipurpose Cleaner/Degreaser		1.4L Jug	33X322
Diversey™ Hurricane Force™	RTU	1 gal. Jug	2ZWL3
		55 gal. Drum	2ZWL5
Dawn® Heavy-Duty Degreaser		1 gal. Jug	22C551


No. 6PEC6



No. 36P452



No. 3HUW5

TOUGH GUY · Spray Nine · zep PROFESSIONAL

Natural Solvent Degreasers

Description	Recommended Dilution	Container	Item No.
Tough Guy® Foaming Citrus Aerosol	RTU	20 oz. Aerosol Can	6PEC6
Spray Nine® Grez-Off®		32 oz. Spray Bottle	36P452
		1 gal. Jug	36P453
		5 gal. Pail	36P454
		55 gal. Drum	36P455
Zep® Professional Heavy-Duty Citrus	1:1 to 1:64	1 gal. Bottle	3HUW5
Zep® Big Orange™	1:64	55 gal. Drum	450Z70



No. 49NW12



No. 22C609



No. 22C616



No. 36XX39



No. 36XX38



No. 22C523



No. 22NX98



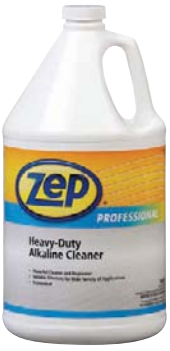
No. 4YE57



No. 5NTZ8



No. 22C524



No. 3HUX3



No. 38P099

Non-Solvent Cleaners/Degreasers

Tough Guy™—Formula contains no chlorinated solvents and a 4.75% VOC content.

Simple Green®—Water-based liquid concentrates are nontoxic, biodegradable, nonhazardous, phosphate-free, and VOC compliant. Crystal Simple Green® has no added fragrance or color and is NSF A1 A2, A4, A8, B1, and C1 rated.

Starpower Super Cleaner/Degreaser™—A biodegradable, water-based formula cleans greasy engines, ink, hard water deposits, mildew, paint, printing equipment, rust stains, tar, train cars and engines. USDA approved for use in food processing facilities. Nontoxic and nonflammable.

Diversey™—All-purpose cleaner and degreaser uses a blend of detergents and a water-soluble solvent to remove tough soils. Can be used in a pressure washer.

Description	Recommended Dilution	Container	Item No.
Tough Guy®, Unscented	RTU	1 gal. Bottle	49NW12
		5 gal. Pail	49NW15
		55 gal. Drum	49NW17
		32 oz. Bottle	36XX40
Simple Green®, Sassafrass	1:10 to 1:30	24 oz. Bottle	22C608
		1 gal. Bottle	22C609
		2.5 gal. Pail	22C610
		5 gal. Pail	22C611
		55 gal. Drum	22C612
		275 gal. Tote	22C613
Simple Green®, Lemon		1 gal. Bottle	22C620
		24 oz. Bottle	22C619
			22C614
Crystal Simple Green®		1 gal. Bottle	22C615
		5 gal. Pail	22C616
		55 gal. Drum	22C617
		275 gal. Tote	22C618
Crystal Simple Green® Foaming Aerosol	RTU	20 oz. Aerosol Can	22NX98
Starpower Super Cleaner/Degreaser™		1 gal. Bottle	4YE57
		55 gal. Drum	4YE56
Diversey™ Strata™	1:5 to 1:128	1 gal. Bottle	5NTZ8
	RTU	55 gal. Drum	5NTZ9

General-Purpose Cleaners

All formulas are VOC-free, UL Listed, biodegradable, and ECOLOGO® Certified.

Description	Recommended Dilution	Container	Item No.
Tough Guy® General-Purpose Cleaner	Varies by Application	32 oz. Bottle	36XX39
Tough Guy® All-Surface Neutral Cleaner	1:256		36XX38
Lysol® All-Purpose Cleaner Concentrate	RTU	1 gal. Jug	22C523
Lysol® Kitchen Cleaner		32 oz. Trigger Spray Bottle	22C524
Zep® Professional Heavy-Duty Alkaline Cleaner	1:1 to 1:100	1 gal. Jug	3HUX3
		5 gal. Pail	3HUX4
		55 gal. Drum	4TLH2
Zep® Professional Heavy-Duty High Alkaline Cleaner	1:2 to 1:100	5 gal. Pail	3HUX6
Clorox® Professional Floor Cleaner	RTU	1 gal. Jug	38P099

Cleaners/ Disinfectants

Krud Kutter®—Cleans, disinfects and deodorizes. Kills 99.9% of bacteria, viruses, and germs.

Tough Guy®—VOC-free neutral disinfectant that is also biodegradable. All products meet EPA standards.



No. 10K008



No. 36XX42

Description	Recommended Dilution	Container	Item No.
Krud Kutter®	RTU	32 oz. Trigger Spray Bottle	10K008
		1 gal. Bottle	10K009
		5 gal. Pail	10K010
Tough Guy®		32 oz. Bottle	36XX42

Disinfectants and Sanitizers Information

Disinfectants—A substance, or mixture of substances that destroys or irreversibly inactivates bacteria, fungi and viruses, but not necessarily bacterial spores, in the inanimate environment.

Sanitizers—A substance, or mixture of substances that reduces the bacterial population in the inanimate environment by significant numbers, but does not destroy or eliminate all bacteria.

- Any product that claims to "kill" anything needs to be registered with the EPA
- All registered products must be used exactly as the labels state they are to be used to validate the kill claim
- Disinfectants usually call for 1 to 10 min. wet contact vs. Sanitizers that usually call for 30 sec. to 1 min. contact



No. 1XEH7



No. 22D015


No. 401Z42

Disinfectant Wipes

Bleach-free formulas provide one-step cleaning and disinfecting and kill 99.9% of bacteria, including staph and salmonella.

Description	Wipes per Container	Sheet Size	Brand		Item No.	Pkg. Qty.
Lysol® Disinfecting Wipes, Ocean Fresh	35	7" x 8"	Lysol		22C488	12
	80	7" x 8"			22C485	6
Lysol® Disinfecting Wipes, Lemon and Lime	35	7" x 8"			22C487	12
	80	7" x 8"		*	1XEH7	6
	110	7" x 8"			22C486	6
Clorox® Disinfecting Wipes, Cherry Almond	155	5¾" x 6¾"	Clorox		401Z42	6
Clorox® Disinfecting Wipes, Citrus Blend™	35	7" x 8"			1AU17	12
Clorox® Disinfecting Wipes, Lemon Fresh	75	7" x 8"			22D014	6
Clorox® Disinfecting Wipes, Fresh	35	7" x 8"			1AU21	12
	75	7" x 8"			22D015	6
	700	7" x 8"			45JC92	2

** EPA Registered.*



No. 4LFA2


No. 45DL41


No. 4LFC1


No. 4LFA8


No. 4LFA9

Disinfectant Gym Wipes

Nontoxic wipes clean and disinfect in one step. Kill up to 47 known pathogens including HIV, CA-MRSA, and E. coli. Phenol-, alcohol-, and bleach-free.

Description	Wipes per Container	Sheet Size	Brand		Item No.	
Wipes						
2XL Gym Wipes® Professional Wipes	700	7" x 8"	Gym Wipes		4LFA2	
2XL Gym Wipes® Professional Wipes Refill	700	7" x 8"	Gym Wipes		4LFA3	
2XL Gym Wipes® Antibacterial Wipes	700	6" x 8"	Gym Wipes		4LFA4	*
2XL Gym Wipes® Antibacterial Wipes Refill	700	6" x 8"	Gym Wipes		4LFA5	*
2XL Care Wipes® Antibacterial Force Wipes	900	6" x 8"	2XL		45DL41	
2XL Care Wipes® Antibacterial Force Wipes Refill	900	6" x 8"	2XL		45DL40	
2XL Care Wipes® MegaRoll Multipurpose Cleaning Wipes	1200	8" x 8"	2XL		4LGJ6	
Wipe Dispensers						
Wall Mount for use with Nos. 4LFA3, 4LFA5 or 4LGJ6 Wipes				2XL	4LFC1	
Bucket Style for use with Nos. 4LFA3 or 4LFA5 Wipes				2XL	4LFA8	
Stainless Steel Floor Mount for use with Nos. 4LFA2 or 4LFA4 Wipes				2XL	4LFA9	

** EPA Registered.*


No. 49Z649


No. 49Z650


No. 49Z655

Disinfectants and Sanitizers

Purell

Easy-to-use, one-step formulas work across most hard and soft surfaces. Healthcare disinfectants feature the lowest allowable EPA toxicity rating and kill germs in just 30 sec. including MRSA, VRE, and norovirus. Food service sanitizers eradicate norovirus, E. coli, and salmonella. Can safely be used on food contact surfaces. Professional disinfectants kill 99.9% of surface germs including fast-spreading cold and flu viruses.

Description	Size	Item No.	Pkg. Qty.
Healthcare Disinfectants - Alcohol Like			
Capped Bottle with Spray	32 oz.	49Z647	3
Trigger in Pack	32 oz.	49Z646	6
Spray Trigger Bottle	32 oz.	49Z648	12
Pour Gallon	1 gal.	49Z649	4
Food Service Sanitizers - Alcohol Like			
Capped Bottle with Spray	32 oz.	49Z652	3
Trigger in Pack	32 oz.	49Z650	6
Spray Trigger Bottle	32 oz.	49Z651	6
Pour Gallon	1 gal.	49Z654	4
Professional Disinfectants - Alcohol Like			
Capped Bottle with Spray	32 oz.	49Z656	3
Trigger in Pack	32 oz.	49Z655	6
Pour Gallon	1 gal.	49Z653	4


No. 22D029


No. 1CH09



No. 36P446



No. 2TEG6

CLOROX | Spic and Span | TOUGH GUY | FORMULA 409 | Spray Nine | OdoBan Professional Series

Disinfectants

Disinfectant Cleaners with Bleach—Cleans, disinfects, and deodorizes hard nonporous surfaces. Eliminates waste with Smart Tube® technology, which allows user to spray all the liquid to the bottom of the bottle. Effective in 30 sec. against pseudomonas, salmonella, staph, Rhinovirus, Hepatitis A, and Influenza A2/Hong Kong virus.

Disinfectant All-Purpose Sprays and Glass Cleaners—Combine a glass cleaner, all-purpose cleaner, and disinfecting cleaner into a single hospital-grade disinfectant/bactericide/fungicide/virucide/deodorizer. Effective against Influenza A2/Hong Kong virus, Respiratory Syncytial virus, Vaccin, Herpes Simplex Types 1 and 2, and HIV-1. Nos. 36XX41, 22C497, and 22C498 are EPA Registered.

Cleaners/Degreasers/Disinfectants—Clean and degrease nonporous surfaces. Disinfectant formula is bactericidal and virucidal. Spray Nine® sanitizes in 10 sec. and disinfects against viruses in 30 sec.

Professional Odor Eliminator and Deodorizing Disinfectants—Kills 99.99% of germs. Can be used as an air freshener, laundry freshener, mopping solution, pet odor eliminator, and spot treatment. 1 gal. concentrate makes up to 32 gal.

Description	Size		Item No.	Pkg. Qty.
Disinfectant Cleaners with Bleach				
Clorox® Clean-Up® Disinfectant Spray	32 oz.		22D029	9
Clorox® Clean-Up® Disinfectant with Bleach Refill	1 gal.		22D030	4
Disinfectant All-Purpose Sprays and Glass Cleaners				
Spic and Span® Trigger Sprayer	32 oz.		4XKT3	8
Tough Guy® Ready-To-Use Trigger Sprayer	32 oz.		36XX41	1
Spic and Span® Ready-To-Use	1 gal.	*	22C497	3
Spic and Span® Concentrate	1 gal.		22C498	2
Cleaners/Degreasers/Disinfectants				
Formula 409®	32 oz.		1CH09	12
	1 gal.		5JC09	4
Spray Nine® Multi-Purpose Cleaner & Disinfectant	32 oz.		36P445	12
	1 gal.		36P446	4
	5 gal.		36P447	1
	55 gal.		36P450	1
Professional Odor Eliminator and Deodorizing Disinfectants				
OdoBan® RTU, Eucalyptus	32 oz.		2TEG7	12
OdoBan® Concentrate, Eucalyptus	1 gal.		2TEG6	4

** EPA Registered.*

Find more information on Disinfectants and Sanitizers on page 1510.



No. 11W407



No. 11Y659



No. 22C492



No. 3HB90



No. 3WU88



No. 22C494



No. 22D011



No. 53CW05



No. 43NR66



No. 22C489

Liquid Quaternary Disinfectant Cleaners

Clean, disinfect, and deodorize hard surfaces. Virucidal, fungicidal, and bactericidal formula is effective against HIV-1, staph, strep, pseudomonas, and salmonella.

Description	Size	Item No.	Pkg. Qty.
Diversey™ Virex® Tb Cleaner and Disinfectant	32 oz.	11W409	1
Diversey™ Virex® II 256 Quat Cleaner and Disinfectant Concentrate	1 gal.	11W407	1
Diversey™ Virex® II 256 Quat Disinfectant Cleaner	1.4L	6EFY2	1
Diversey™ Envy® Liquid Disinfectant Cleaner	32 oz.	11Y659	1
Clorox® Broad Spectrum Quarternary Disinfectant Cleaner	32 oz.	22D012	9
Lysol IC® Disinfectant Cleaner	1 gal.	22C492	4
3M™ TB Quat Disinfectant RTU Cleaner	1 qt.	3HB90	12
3M™ Disinfectant Cleaner	1 gal.	35YY73	4



No. 24Y904



No. 21EX39



No. 1XEH3



No. 22C495



No. 11Y657



No. 22C657

Germicidal Foam Cleaners

Clean, shine, disinfect, deodorize, and remove dirt, grit, and hard water stains. Kill staph, salmonella, pseuomonas, HIV-1, and Influenza A (H1N1).

Description	Size	Item No.	Pkg. Qty.
Tough Guy® Germicidal Cleaner	20 oz.	24Y904	1
Lysol® Disinfectant Foam, Fresh Scent	24 oz.	1XEH3	12
Dymon® do-it ALL™ Germicidal Cleaner	20 oz.	21EX39	12
Lysol® I.C.™ Foaming Disinfectant Cleaner	24 oz.	22C495	12
Diversey™ Endbac® II Disinfectant Spray	15 oz.	11Y657	1
Misty® Disinfectant Foam Cleaner	20 oz.	22C657	12

Disinfectant Sprays

Professional—Prevent mold and mildew growth and help prevent the spread of MRSA, HIV-1, Influenza A (H1N1), and norovirus. Tuberculocidal, virucidal, fungicidal, and bactericidal.

Surface Disinfectants/Air Sanitizer—Kills 99.9% of germs and viruses on hard surfaces. Disinfects and deodorizes.

Description	Size	Item No.	Pkg. Qty.
Professional			
Tough Guy® Disinfectant Spray, Floral Scent	20 oz.	53CW04	1
Lysol® Disinfectant Spray, Original Scent	19 oz.	3WU88	12
Lysol® Disinfectant Spray, Fresh Scent	19 oz.	1XEH4	12
Lysol® Disinfectant Spray, Country Scent	19 oz.	1XEH5	12
Lysol® Disinfectant Spray, Crisp Linen Scent	19 oz.	1XEH6	12
Lysol® Disinfectant Spray, Spring Waterfall Scent	19 oz.	22C484	12
Lysol® I.C.™ Disinfectant Spray	19 oz.	22C494	12
Clorox® Disinfectant Spray	19 oz.	22D011	12
Clorox Healthcare® Citrace® Hospital Disinfectant & Deodorizer	14 oz.	22D024	12
Dymon® Disinfectant Spray, Floral Scent	20 oz.	53CW05	1
Zep® Professional Disinfectant and Deodorizer, Citrus Scent	16 oz.	43NR66	12
Misty® Surface Disinfectant	20 oz.	22C659	12
Sprayway® Claire® Germicidal Cleaner	20 oz.	53DH40	1
Surface Disinfectant/Air Sanitizer			
Lysol® Disinfectant Spray, Crystal Waters Scent	12.5 oz.	22C489	12

d Pro 3 Plus Antibacterial Cleaner

Antibacterial cleaner disinfects while simultaneously cleaning and deodorizing. Broad spectrum, hospital-grade formula kills over 75 different bacteria, viruses and fungi, including antibiotic-resistant superbugs. Proven effective against HIV, MRSA, Staph, E. coli, cold, flu, athlete's foot fungus, and more. Dilutes up to 1:64.

Description	Size	Item No.
Simple Green® d Pro 3 Plus, Sweet Lavender Pine Scent	1 gal.	423M62
	5 gal.	423M63



No. 423M62

PDI BE THE DIFFERENCE

Disinfectant Wipes

Clean, disinfect, and deodorize hard nonporous surfaces. Prevent do-it-yourself formula mixing errors and ensure stability.

High-alcohol wipes have 55% alcohol for 2 min. kill times. Low-alcohol wipes disinfect sensitive equipment in 5 min. Effective against MRSA, VRE, HIV-1, and Influenza A.

No. 9RYJ7



Description	No. of Wipes	Sheet Size	Formula	Item No.		Pkg. Qty.
High-Alcohol Wipes						
Super Sani-Cloth®	50	5" x 8"	55% Alcohol, Latex Free, Bleach Free and Phenolic Free	**9RYJ8**	*	1
	65	7½" x 15"	Alcohol Based	**9JAJ1**		1
	160	6" x 6¾"	55% Alcohol, Latex Free, Bleach Free and Phenolic Free	**9RYJ7**	*	1
Low-Alcohol Wipes						
Sani-Cloth® Plus Canister	65	7½" x 15"	14.85% Alcohol, Latex Free, Bleach Free and Phenolic Free	**8DLW5**	*	1
	160	6" x 6¾"	Latex Free, Bleach Free and Phenolic Free	**9MCC1**	*	1

**** EPA Registered.***



CaviWipes®



CaviCide®

CaviCide

Surface Disinfectant/ Decontaminant Cleaners

Convenient, ready-to-use, intermediate-level disinfectant is effective against TB, HBV, HCV, hydrophilic and lipophilic viruses, MRSA, VRE, salmonella, bacteria, and fungi in 3 min. Gentle on sensitive equipment. No rinsing needed, just air dry. Fragrance-free.

			Item No.		Pkg. Qty.
CaviWipes® Canisters					
65 XL Wipes, 9"" x 12"			**6TWF8**		1
160 Wipes, 6"" x 6¾"			**3VCZ5**	*	1
CaviWipes® Box					
50 Individual Packets XL Wipes, 10"" x 12"			**6TWF9**		1

**** EPA Registered.***

Description	Item No.		Pkg. Qty.
CaviWipes® Flatpack			
45 Wipes, 7"" x 9"	**6TWG0**		1
CaviCide® Disinfectant Liquid			
2 oz. Spray Bottle	**3VDH8**		1
8 oz. Spray Bottle	**3VDH9**		1
24 oz. Trigger Bottle	**3VDJ1**	*	1
1 gal. Bottle	**3VDJ2**	*	1
2.5 gal. Bottle with Spigot	**3VDJ3**	*	1



No. 6VDE5



No. 6VDE6

CLOROX HEALTHCARE

Healthcare Germicidal Bleach Cleaners

Detergent and bleach dilution strength of 5500 ppm is equivalent to 1:10 bleach solution recommended by the CDC for disinfecting. Fuzion™ No. 52LC52 features a formula that breaks down to leave little to no residue on surfaces. Nos. 6VDE6, 22D019, and 6VDE7 meet both Universal and Standard Precautions set by OSHA and CDC.



No. 6VDE7



No. 1XEZ3

Size	Container Type	Item No.	Pkg. Qty.
Clorox Healthcare® Fuzion™ Cleaner Disinfectant			
32 oz.	Spray Bottle	**52LC52**	9
Clorox Healthcare® Bleach Germicidal Cleaner			
32 oz.	Bottle	**6VDE5**	6
	Spray Bottle	**6VDE6**	6
64 oz.	Refill Jug	**22D019**	6
1 gal.	Refill Jug	**6VDE7**	4
Clorox Healthcare® Bleach Germicidal Wipes			
70 wipes/ canister	Canister	**1XEZ3**	6
110 wipes/ canister	Bucket	**4XKR7**	2
	Refill	**4XKR8**	2
150 wipes/ canister	Canister	**6VDE9**	6

Sealed Air Diversey Care

Lysol®

TOUGH GUY



No. 487P80



No. 49NW19

Hydrogen Peroxide Cleaners

Heavy-duty cleaners are safe on most hard surfaces. Contain no added dyes. All except No. 487P80 are fragrance free.

Description	Size	Container Type	Brand	Item No.	Pkg. Qty.
PERdiem™ General Purpose Cleaner	1 gal.	Jug	Diversey	**11Y613**	1
	1.4L	Hose End Spray Bottle	Diversey	**6EFY0**	2
Lysol® All Purpose Cleaner, Citrus Sparkle Zest Scent	22 oz.	Trigger Spray Bottle	Lysol	**487P80**	12
Powered Peroxide Cleaner and Degreaser	1 gal.	Bottle	Tough Guy	**49NW19**	1



No. 5KRJ0



No. 48TJ10



No. 11Y625

Hydrogen Peroxide TB and Disinfectant Cleaners

Diversey™

Oxivir® and Accel® TB cleaners are based on proprietary AHP® (Accelerated Hydrogen Peroxide) technology. TB formulas have a bacterial and virucidal formula that disinfects in 60 sec.; tuberculocidal in 5 min. Oxivir kills MRSA, VRE, and Norovirus. Oxivir® Five 16 also kills Canine Parvovirus and works as a nonfood contact sanitizer. Accel is effective against salmonella, E. coli, HIV-1, MRSA, norovirus, and more. Wipes meet bloodborne pathogen standards for decontaminating blood and bodily fluids. Oxivir Five 16 and Accel concentrate kill bacteria, viruses, and fungi in 5 min. Peroxy kills viruses and deodorizes. All are EPA Registered, except No. 11Y625.

Description	Size	Item No.	Pkg. Qty.
Oxivir® TB, RTU Trigger Spray	32 oz.	**5KRJ0**	12
Oxivir® TB, RTU Refill	1 gal.	**48TJ10**	4
Oxivir® Five 16 Concentrate	1 gal.	**11Y608**	1
Oxivir® Five 16 Concentrate	1.4L	**11Y609**	1
Oxivir® TB Wipes, 60 per Canister	—	**11Y625**	1
Oxivir® TB Wipes, 160 per Canister	—	**5KRJ1**	12

All-Purpose Cleaners with Bleach

Whiten many tough stains while cutting through grease. For use on tubs, tiles, sinks, toilets, and countertops.



No. 22C505



No. 4XKT4



No. 46E807

Fragrance	Size	Flash Point	Brand	Item No.	Pkg. Qty.
Slight Chlorine	32 oz.	Greater than 199.9°F	Lysol	22C505	12
Unscented	32 oz.	More Than 200°F	Comet	4XKT4	8
Unscented	32 oz.	None	Fantastik	46E807	8



No. 4XKR9



No. 2ZWK1



No. 2ZWK2



No. 4TKC5



No. 39N012

Natural Cleaners

Made from essential oils and natural plant-derived ingredients. Clean without harsh fumes or residue.

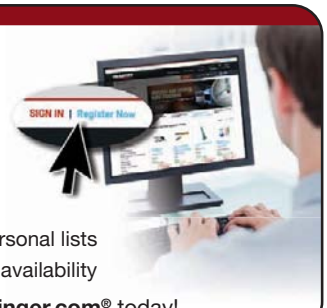
Description	Size	Brand	Item No.	Pkg. Qty.
Green Works® Compostable Cleaning Wipes	62 Wipes/ Container	Green Works	4XKR9	6
Green Works® All-Purpose Cleaner	32 oz.		2ZWK1	12
Green Works® All-Purpose Cleaner Refill	64 oz.		2ZWK2	6
Orange Plus® All-Purpose Cleaner and Degreaser	32 oz.	Earth Friendly Products	4TKC4	1
	1 gal.		4TKC5	1
Orange Plus® Concentrate	5 gal.		39N012	1

REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!





No. 36XX37



No. 449V86



No. 22D027



No. 2NDR8



No. 2GVN6



No. 22C504



No. 33NT80



No. 22C644



No. 10F943

All-Purpose Cleaners

Provide effective cleaning on most washable surfaces. Remove stubborn stains including grease, scuff, pencil, and crayon marks, smoke film, and fingerprints. Leave a long-lasting clean scent. Nos. 22D026 and 22D027 are disinfectants that are effective against staph and salmonella.

Description	Fragrance	Size	Item No.	Pkg. Qty.
Tough Guy				
Tough Guy® Multi-Purpose Cleaner	Lavender	1 gal.	36XX37	1
Zep Professional				
Zep® Professional Multisurface Cleaner	Unscented	20 oz.	5DPV5	1
Zep® Professional Foaming Citrus Cleaner	Citrus	20 oz.	5DPV7	1
Zep® Professional General Purpose RTU Cleaner	Citrus	1 qt.	22C676	12
Zep				
Zep® Tuff Green Cleaner	Citrus	1 qt.	449V86	12
Pine-Sol				
Pine-Sol® Disinfectant Cleaner	Pine	60 oz.	22D026	6
Pine-Sol® Cleaner and Disinfectant	Pine	144 oz.	22D027	3
Pine-Sol® All Purpose Cleaner	Lavender	144 oz.	22D028	3
	Orange	144 oz.	22D031	3
	Lemon	144 oz.	22D032	3
Fabuloso				
Fabuloso® Concentrate	Lavender	1 gal.	2NDR8	4
Fabuloso® RTU	Ocean Cool	1 gal.	2NDR9	4
Simple Green				
Simple Green® All-Purpose Clean Building™	Unscented	1 gal.	2GVN6 *	2
Lysol				
Lysol® All-Purpose Cleaner	Lemon Breeze®	32 oz.	22C503	12
Lysol® Deodorizing Cleaner	Lemon	1 gal.	22C504	4
Lysol® Pine Action Cleaner	Pine	1 gal.	22C502	4
Mr. Clean				
Mr. Clean® All-Purpose Cleaner	Unscented	128 oz.	33NT80	4
	Citrus		499L37	9
Misty				
Misty® All-Purpose Cleaner Aerosol	Citrus	20 oz.	22C644	12
	Mint	20 oz.	22C645	12
Diversey				
Hot Springs™ Heavy-Duty General Purpose	Unscented	1 gal.	10A339	1
GP Forward™	Unscented	1 gal.	10F943	1
	Unscented	5 gal.	10F944	1

** Meets Green Seal® Standards*



No. 36P191



No. 36P197



No. 36P171



No. 36P173



No. 19RC66



No. 19RC72



No. 36P156



No. 36P168



No. 36P166

Surface Sanitizer/Disinfectant

BEST SANITIZERS INC.

Alpet® D2 Surface Sanitizer/ Disinfectant—No-rinse, alcohol/quat formula will sanitize a food contact surface in just 60 sec. and completely disinfects non-food contact surfaces in 5 min. Highly evaporative, non-corrosive and ideal for water sensitive equipment. Kosher, Pareve, and Halal certified. NSF listed, D2 classification.

Alpet® D2 Surface Sanitizing Wipes— Surface wipes Nos. 36P196 and 36P197 are pre-saturated and come in a canister with a spring-loaded lid to prevent them from drying out. Refillable Wiping System Nos. 36P188 and 36P193 include reusable canisters and dry wipes. Add 1 qt. of Alpet D2 Surface Sanitizer No. 36P191 to moisten wipes.

Hand Hygiene—Meet all USDA requirements for food handling. Formulated with emollients to keep hands soft. Kosher, Pareve, and Halal certified.

Sanitizer spray Nos. 36P171, 36P172, 36P173, and 36P175 kill 99.9999% of 26 tested pathogens. Atomized spray saturates fingernails, cuticles and crevices where germs hide. NSF Certified,

Foam soap Nos. 19RC65, 19RC66, and 19RC67 kill 99.999% of 12 tested pathogens. Rich, thick foam. NSF Certified, E2 classification.

Pump Kits and Pumps—Designed for foams and sprays, soaps and sanitizers.

Dispensing Options—Touchless dispenser No. 19RC84 reduces the risk of cross-contamination with dual-infrared sensor technology. Table top or wall mount.

Touch-free Nos. 36P155 and 36P156 and manual Nos. 36P168 and 36P169 dispense sprays, foams, liquids, lotions, soaps, and sanitizers. ADA Compliant.

Stainless steel dispensers Nos. 19RC73, 36P166, and 36P167 are designed for easy cleaning. Ideal for wet or dry environments.

Description	Size	Item No.	Pkg. Qty.
Alpet® D2 Surface Sanitizer/Disinfectant			
Finger Pump Bottle	4 oz.	**36P192**	48
Trigger Spray Bottle	1 qt.	**36P191**	4
	1 qt.	**36P186**	12
Pail with Spigot	5 gal.	**36P185**	1
Bulk Drum	50 gal.	**36P184**	1
Alpet® D2 Surface Sanitizing Wipes			
Pre-Saturated Sanitizing Wipes	90 Wipes	**36P196**	6
	160 Wipes	**36P197**	6
Refillable Wiping System	90 Wipes	**36P188**	6
	160 Wipes	**36P193**	6
Refillable Wiping System Refills	90 Wipes	**36P189**	6
	160 Wipes	**36P194**	6
Hand Hygiene			
Alpet E3 Plus Hand Sanitizer Pump Bottle	1000mL	**36P171**	6
Alpet E3 Plus Hand Sanitizer Bottle	1000mL	**36P175**	6
Alpet E3 Plus Hand Sanitizer	1 gal.	**36P173**	4
	50 gal.	**36P172**	1
Alpet QE2 Hand Soap	1 gal.	**19RC66**	4
	55 gal.	**19RC67**	1
	1250mL	**19RC65**	6
Hand Sanitizer Pump Kits and Pumps			
Hand Sanitizer Pump Kit	1 gal.	**36P161**	1
	1000mL	**36P157**	1
Wrist Activated Foam Pump	—	**19RC71**	1
Manual Foam Pump	—	**19RC72**	1
Dispensing Options			
Touch Free Hand Sanitizer Dispenser - Gray	1000mL	**19RC84**	1
Touch-Free Hand Sanitizer Dispenser - White	1250mL	**36P155**	1
Touch-Free Hand Sanitizer Dispenser - Black	1250mL	**36P156**	1
Manual Hand Sanitizer Dispenser - White	1250mL	**36P168**	1
Manual Hand Sanitizer Dispenser - Black	1250mL	**36P169**	1
Stainless Steel Wall Mounted Industrial Hand Cleaner Dispenser	—	**19RC73**	1
Stainless Steel Wall Mounted Hand Sanitizer Dispenser	3785mL	**36P166**	1
Stainless Steel Free Standing Hand Sanitizer Dispenser	3785mL	**36P167**	1



No. 2DBX5



No. 1XEH2



No. 39F167

TOUGH GUY · Diversey · GOO GONE

Oven and Grill Cleaners

Dissolve tough, baked-on grease from ovens, grills, griddles, broilers, and hoods.

Description	Size	Brand	Item No.	Pkg. Qty.
Tough Guy® Aerosol Oven & Grill Cleaner	20 oz.	Tough Guy	**2DBX5**	1
Suma® Oven and Grill Cleaner	32 oz.	Diversey	**33X326**	12
Easy-Off® Oven Cleaner	24 oz.	Easy Off	**1XEH2**	6
Easy Off® Fume-Free	24 oz.		**22C517**	6
Easy Off® Ready-To-Use	64 oz.	Professional Easy-Off	**22C519**	6
Goo Gone® Oven and Grill Cleaner	14 oz.	Goo Gone	**39F167**	1



No. 1JYZ5



No. 46F040



No. 22C548



No. 46F039



No. 22C534



No. 20JK45



No. 4TKE6



No. 499L38



No. 22CK43

DAWN® PROFESSIONAL | Joy | AbilityOne PROGRAM ★ | COLGATE-PALMOLIVE COMPANY COMMERCIAL CUSTOMER GROUP

TOUGH GUY | EARTH FRIENDLY PRODUCTS | Mr. Clean | SCRUBS® Brand Wipes

Manual Pot and Pan Dish Detergents

Fight grease while leaving pots, pans, and dishes clean. High-sudsing formulas. Greenworks® Natural and Dishmate™ detergents contain no phosphates or chlorine, and will not create harsh fumes. Gentle on hands. No. 22CK43 is biodegradable.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Dawn® Manual Pot and Pan, Unscented	38 oz.	Dawn	1JYZ5	8
	1 gal.		46F040	4
Dawn® Manual Pot and Pan, Original	5 gal.		22C548	1
Dawn® Manual Pot and Pan, Lemon	1 gal.		46F041	4
	38 oz.		22C555	8
Dawn® Antibacterial, Citrus	28 oz.		487J41	8
Joy® Manual Pot and Pan	38 oz.	Joy	22C556	8
	1 gal.		46F039	4
Manual Dishwashing, Unscented	5 gal.	Ability One	5MM94	1
Ultra Palmolive® Original	3 oz.	Palmolive	22C534	72
Palmolive® Professional	1 gal.		49RM15	1
Tough Guy® Liquid Dish Detergent	1 gal.	Tough Guy	20JK45	4
ECOS™ Pro Dishmate™ Dish Detergent, Unscented	25 oz.	Earth Friendly Products	4TKE6	1
	1 gal.		4TKE7	1
	5 gal.		4TKE8	1
ECOS™ Pro Dishmate™ Dish Detergent, Grapefruit	25 oz.		6VLD6	1
	1 gal.		6VLD7	1
	5 gal.		6VLD8	1
Cleaning Pads and Wipes				
Mr. Clean® Magic Eraser Original Scrubbers	—	Mr. Clean	499L38	36
Mr. Clean® Magic Eraser Bath Cleaning Pads	—		55RT86	8
SCRUBS® Green Cleaning Wipes, Unscented, 50 per Canister	—	SCRUBS	22CK43	6



No. 41P004



No. 44C467



No. 22C532



No. 30FX93



No. 22C526



No. 22C533

Sunlight | seventh generation | finish POWERBALL | Cascade | COLGATE-PALMOLIVE COMPANY COMMERCIAL CUSTOMER GROUP

Automatic Dishwashing Detergents

Formulated for under-counter dishwashers. Gently scrub dishes and eliminate spots and film. Seventh Generation™ dishwashing detergents contain no phosphates or chlorine and will not create harsh fumes.

Description	Size	Brand	Item No.	Pkg. Qty.
Packets				
Sunlight® with LemonOxi™ Complex - Pk. of 20	12.6 oz.	Sunlight	41P004	6
Seventh Generation™ Automatic Dishwasher Concentrated Pacs	12.6 oz.	Seventh Generation	44C467	12
Tabs				
Finish® Automatic Dishwasher Detergent	14.4 oz.	Finish	22C532	8
Powders				
Dishwasher Detergent	75 oz.	Cascade	30FX93	7
Gels				
Palmolive® Eco+™	75 oz.	Palmolive	22C526	6
Seventh Generation™ Automatic Dishwasher Gel	42 oz.	Seventh Generation	22C533	6



No. 5GUU1



No. 2CXX5

Laundry Detergents

Grease-cutting, high-powered detergents are effective on tough, greasy food stains. Work well in hot or cold water. Tough Guy® Nos. 5GUU1 and 5GUU2 use plant-derived cleaning agents and enzymes to power out stains.

Description	Size	Item No.	Pkg. Qty.
Liquid			
DFE-Approved High Efficiency Liquid Laundry Detergent	100 oz.	**5GUU1**	1
	210 oz.	**5GUU2**	1
Powder			
Laundry Detergent	50 lb.	**2CXX5**	1
	100 lb.	**2CXX6**	1



No. 1XEK4



No. 55YC65



No. 44C459



No. 20J213



No. 49KA83



No. 24L293

Fabric Softeners

Make clothes fluffy, soft, and fragrant. Reduce static cling.

Description	Size	Brand	Item No.	Pkg. Qty.
Ultra Liquid Fabric Softener				
Downy® Ultra Liquid Fabric Softener, April Fresh	51 oz.	Downy	**1XEK4**	8
Liquid Fabric Softener				
Downy® Fabric Softener, April Fresh	64 oz.	Downy	**55YC65**	4
Seventh Generation™ Liquid Fabric Softener	32 oz.	Seventh Generation	**44C459**	6
Snuggle Fabric Softener Dryer Sheets				
Snuggle® Dryer Sheets, Blue Sparkle	120 ct. per pk.	Snuggle	**20J213**	6
Dryer Sheets				
Bounce® Dryer Sheets, Outdoor Fresh	15 ct. per pk.	Bounce	**49KA83**	15
	160 ct. per pk.	Bounce	**1XEK3**	6
Arm & Hammer® Essentials® Fabric Softener Sheets, Mountain Rain	144 ct. per pk.	Arm & Hammer	**24L293**	6



No. 24L311



No. 55YC67



No. 24L297



No. 24L309



No. 40K034



No. 24L317



No. 20J203



No. 24L304

Laundry Detergents

High-powered, grease-cutting formulas are effective on tough, greasy food stains. Work in hot or cold water. Earth Friendly No. 4TKE5 uses plant-derived cleaning agents and enzymes to power out stains. Additional fragrances of Ecos® laundry detergents available, see Grainger.com®.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquid				
Tide® Original Scent	25 oz.	Tide	**24L311**	6
Tide® Original Scent with Bleach Alternative	25 oz.	Tide	**24L310**	6
Tide® Original Scent	46 oz.	Tide	**55YC66**	6
Tide® Free & Gentle, Unscented	46 oz.	Tide	**55YC67**	6
Arm & Hammer®, Clean Burst	210 oz.	Arm & Hammer	**54XU26**	2
Arm & Hammer® for Sensitive Skin, Unscented	50 oz.	Arm & Hammer	**24L297**	8
Arm & Hammer® Plus Oxi Clean, Fresh Scent	62.50 oz.	Arm & Hammer	**24L295**	6
Gain® Original Scent	50 oz.	Gain	**24L309**	6
Gain® 2X Ultra, Unscented	25 oz.	Gain	**24L308**	6
Era® 2X Ultra, Unscented	100 oz.	Era	**40K034**	4
Professional Purex® Concentrate, Mountain Breeze®	5 gal.	Purex	**24L303**	1
ECOS® Pro Free & Clear, Unscented	1 gal.	Earth Friendly Products	**4TKE5**	1
Powder				
Tide® Original Scent	95 oz.	Tide	**46F045**	3
Tide® Original Scent	143 oz.	Tide	**49EN94**	2
Ultra Gain® Original, Unscented	91 oz.	Gain	**24L317**	3
All® Free Clear, Unscented	52 oz.	All	**20J203**	6
Diversey® Clax® Micro Forte G, Unscented	22 lb.	Diversey	**32GT06**	1
Professional Purex® Ultra, Original Fresh	15.60 lb.	Purex	**24L304**	1
Ultra Purex® Plus, Mountain Breeze®	1.40 oz.	Purex	**24L305**	156

Bleach

Renews fabric brightness and whiteness. Ideal for disinfecting and deodorizing. The recommended dilution for No. 43NR77 is 1:5.



No. 56HN12



No. 24L299

Description	Container Size	RTU/ Concentrated	Cleaner Form	Brand	Item No.	Pkg. Qty.
Tough Guy Germicidal Bleach	1 gal.	Ready to Use	Liquid	Tough Guy	56HN12	6
Jazzle Bleach	1 gal.	Concentrated	Liquid	Zep	43NR77	4
Borateem® Color Safe Bleach	17.50 lb.	Ready to Use	Powder	Dial	24L299	1

Concentrated Clorox® Germicidal Bleach

Concentrated formula suitable for food-contact surfaces. EPA Registered to kill 39 organisms, including multiple strains of MRSA, Norovirus, 3 strains of influenza, Clostridium difficile spores in 5 minutes or less on hard, nonporous surfaces when used as directed. Complies with OSHA Bloodborne Pathogens Standard. Meets FDA guidelines for sanitizing food surfaces.

Size	Item No.	Pkg. Qty.
121 oz.	41H893	3



Carpet Spotters

Designed for difficult stain removal where other spot and stain removers may fail.

General Purpose—Water-based, low-residue formula is safe on all carpets, including wool.

Gum Remover—Helpful in removing gum and candle wax from various types of carpet.

Hydrogen Peroxide—Maximum effectiveness on coffee and other high color stains.

Protein—Removes organic spots including vomit, urine, and blood.

Stench and Stain Digester—Eliminates severe carpet malodors caused by organic matter.

Tannin Stain Remover—Effective on coffee and tea stains. Use for general debrowning.

Citrus Express Gel—D-Limonene formula removes adhesives, tar, oils, grease, ink, and marker.

Description	Size	Brand	Item No.	Pkg. Qty.
General Purpose Spotters	32 oz.	Tough Guy	490W82	1
	32 oz.	Diversey	10F961	1
Bioenzymatic Spotter	1 qt.	Zep Professional	3HUL6	1
Gum and Wax Remover	5 oz.	Tough Guy	2DCB9	1
Stain Remover with Hydrogen Peroxide	32 oz.	Zep Professional	3HUL3	1
Protein Carpet Spotter	32 oz.	Diversey	10F962	1
Stench and Stain Digester Carpet Spotter	32 oz.	Diversey	11Y651	1
Tannin Stain Remover	32 oz.	Diversey	11Y652	1
Citrus Express Gel	32 oz.	Diversey	2ZHV3	1



No. 2DCB9

No. 490W82





No. 11Y651

Carpet Spot and Stain Removers

Release oil- and water-based soils from carpet and upholstery. Deodorize as they penetrate, leave no residue. Bioenzymatic cleaners act as stain removers, digestants, and deodorizers.

Description	Size	Brand	Item No.	Pkg. Qty.
Liquids				
Professional Spot & Stain Carpet Cleaner	32 oz.	Resolve	24L290	12
Spot Shot®	32 oz.	Spot Shot	1XEG6	12
ECOS™ Pro Stain and Odor Remover	1 gal.	Earth Friendly Products	4TKA2	1
Lift Off® Stain Remover	32 oz.	Lift Off	24L275	6
Lift Off® Spot and Stain Remover	22 oz.	Lift Off	24L276	6
Aerosols				
Spot Shot®	18 oz.	Spot Shot	1XEG7	12
Eliminator® Carpet Spot & Stain Remover	18 oz.	Dymon	6UAX6	1
Bioenzymatics				
Liquid Alive Deodorizing Stain Remover	20 oz.	Dymon	6UAY3	1
Heavy-Duty Carpet Spotter	20 oz.	Zep Professional	5DPT8	1



No. 24L290



No. 6UAY3

Description	Size	Rec. Dilution	pH	Brand	Item No.	Pkg. Qty.
Bonnet Buffs						
Soil Release/ Bonnet Buff	1 gal.	1:8	8.5 to 9.4	Diversey	2ZHU3	1
Scotchgard™ Spray Cleaner Concentrate		1:20	9.1	3M	5ND38	
Carpet Shampoos						
Carpet Shampoo	1 gal.	1:16 to1:32	7.7-8.7	Tough Guy	5FVZ3	1
		1:16 to 1:32	7.6 to 8.2	Diversey	2ZHU2	
Extraction Cleaners						
Carpet Extraction Cleaner	1 gal.	1:43 to 1:128	8.6-9.6	Tough Guy	2WEC3	1
		1:12, 1:16, 1:128	8.5 to 9.04	Diversey	10F959	
Scotchgard™ Extraction Cleaner Concentrate		1:64	8 to 9	3M	3U166	1
Professional Carpet Extractor Concentrate			—	Resolve	24L289	4
Carpet Cleaner		1:10 to 1:21	6.85 to 8.0	Simple Green	6XWX8	1
Clean Building™ Carpet Cleaner			6.85 to 7.2		2GVN8 *	2
3-in-1 Carpet Cleaner Concentrate		1:64	8.0 to 8.7	OdoBan	36P402	4
Prespays						
Heavy-Duty Prespray	1 gal.	1:12, 1:32	7.5 to 8	Diversey	10F960	1
Carpet Pretreatment	1 qt.	RTU	7 to 7.5	Zep Professional	3HUL9	

** Meets Green Seal® Standards for industrial and institutional cleaners based on their reduced human and aquatic toxicity and reduced smog production potential.*

Carpet Cleaners

Bonnet Buffs—Formulated for spin bonnet cleaning. Will not cause resoiling.

Carpet Shampoos—Work with rotary cleaning methods. Leave no tacky residue which can lead to restaining.

Extraction Cleaners—Low-foam formulas work in high-pressure extractors.

Prespays—Loosen heavily soiled carpets and contain repellent to reduce resoiling.



No. 2ZHU3



No. 2WEC3



No. 24L289



No. 6XWX8



No. 36P402



No. 6VLA2



No. 1YVB2



No. 24Y898



No. 2U428



No. 6UAX8



No. 5URF7



No. 24Y902



No. 41C260



No. 499L40



No. 20J180



No. 4MHK6



No. 20J178



No. 2DBY8



No. 20H877



No. 20H878



No. 20K995



No. 3HUT6



No. 24K643

SHEILA SHINE · TOUGH GUY · EARTH FRIENDLY PRODUCTS · simple green · magic · 3M · Dymon · MISTY · Spray Nine · Diversey · zep PROFESSIONAL · SCRUBS

Stainless Steel Cleaners and Polishes

Clean, polish, and protect stainless steel, chrome, and aluminum. Resist fingerprints and streaking.

Description	Size	Item No.	Pkg. Qty.
Liquids			
Sheila Shine® Stainless Steel Cleaner	1 qt.	5URF8	1
	1 gal.	5URF9	1
Trigger Sprays			
Tough Guy® Stainless Steel Cleaner & Polish	1 qt.	36MG07	1
Earth Friendly Products® Stainless Steel Cleaner and Polish, Spray Bottle	32 oz.	6VLA2	1
Simple Green® Stainless Steel Cleaner/Polish Liquid Spray	32 oz.	1YVB2	1
Magic® Stainless Steel Cleaner	14 oz.	39F179	1
Aerosols			
Tough Guy® Citrus Stainless Steel Cleaner	20 oz.	24Y898	1
Tough Guy® Oil-Based Stainless Steel Cleaner	20 oz.	2DBY3	1
3M™ Stainless Steel Cleaner and Polish	21.5 oz.	2U428	1
Dymon® Aerosol Oil-Based Stainless Steel Cleaner	20 oz.	6UAX8	1
Misty® Stainless Steel Cleaner and Polish	20 oz.	20H881	12
Misty® Painless Stainless	20 oz.	20H882	12
Sheila Shine® Stainless Steel Cleaner	10 oz.	5URF7	1
Spray Nine® Glass and Stainless Steel Cleaner	19 oz.	36P471	6
Diversey Stainless Steel Cleaner and Polish	17 oz.	20J218	12
Zep® Professional Stainless Steel Cleaner and Polish	20 oz.	5DPW2	1
Magic® Stainless Steel Cleaner	17 oz.	39F180	1
Wipes			
Tough Guy® Stainless Steel Cleaner Wipes	75 ct.	24Y902	1
SCRUBS® Stainless Steel Cleaner Towel	30 ct.	41C260	6
Magic® Stainless Steel Cleaner Wipes	30 ct.	39F181	1

TOUGH GUY · pledge · Diversey · MISTY · Old English · magic

Furniture Polishes

zep PROFESSIONAL

Furniture polishes remove fingerprints and dirt from wood furniture, cabinets, paneling, and vinyl. Shine, dust, and protect.

Description	Size	Item No.	Pkg. Qty.
Trigger Sprays			
Tough Guy® Lemon Furniture Polish, Trigger Spray	32 oz.	499L40	1
Pledge® Multisurface Cleaner, Citrus, Trigger Spray	16 oz.	20J180	6
Diversey Shine-Up Liquid Furniture Polish, Lemon	32 oz.	4MHK6	1
Aerosols			
Pledge® Aerosol Multisurface Cleaner, Rainshower	9.7 oz.	20J178	6
Tough Guy® Aerosol Lemon Furniture Polish	20 oz.	2DBY8	1
Misty® Aspire Aerosol Furniture Cleaner and Polish	16 oz.	20H877	12
Misty® Aerosol Furniture Cleaner and Polish	19 oz.	20H878	12
Misty® Aerosol Furniture Cleaner and Polish with Lemon Oil	18 oz.	20H879	12
Old English® Aerosol Furniture Polish, Lemon	12.5 oz.	20K995	12
Magic® Cabinet and Wood Cleaner	17 oz.	39F176	1
Zep Professional® Furniture Polish	20 oz.	3HUT6	1
Wipes			
Pledge® Multisurface Cleaner Wipes, Unscented	25 ct.	20J181	12
Pledge® Furniture Polish Wipes, Lemon	24 ct.	24K643	12



No. 20K998



No. 20L005



No. 52LC54



No. 52LC57

Dusters

Swiffer

Trap and lock dust and allergens better than a feather duster.

Description	Item No.	Pkg. Qty.
360° Duster Starter Kit (1 handle and 1 disposable duster per box)	20K998	12
360° Duster Extender Kit (1 handle and 3 dusters)	20L005	6
360° Duster Refills (6 refills per box)	52LC54	4
Duster Kit (1 handle and 5 dusters per box)	52LC57	6

Adhesive Removers

Remove gummy, sticky, and gooey substances. Ready-to-use, no dilution required.



No. 39F165



No. 10K013

Description	Size	Item No.	Pkg. Qty.
Goo Gone® Spray Gel Adhesive Remover & Cleaner	12 oz.	39F165	1
Goo Gone® Adhesive Remover and Cleaner	8 oz.	1NNU2	12
	16 oz.	49XZ47	4
	1 qt.	1NNV5	1
	55 gal.	1NNW1	1
Goo Gone® Adhesive Remover No-Mess Pen	10mL	2LUZ2	12
Goof Off® Adhesive, Grease, Marker, Paint, Tar Remover, Aerosol	12 oz.	6XFF6	1
Goof Off® Adhesive, Grease, Marker, Paint, Tar Remover, Liquid	16 oz.	6XFF4	1
	1 gal.	6XFF5	1
Krud Kutter® Adhesive, Caulk, Foam, Mastic, Silicone, and Tar Remover™	8 oz.	10K012	1
	16 oz.	10K013	1

Graffiti and Spray Paint Removers

Remove inks, markers, lipstick, and most common graffiti marks. Nos. 6KHD7 and 6UAX9 are aerosols with a jelled formula that clings to vertical surfaces.



No. 39M999



No. 4HK51

Description	Size	Item No.
Aerosol		
Tough Guy® Graffiti and Spray Paint Remover	20 oz.	6KHD7
Dymon® Graffiti and Spray Paint Remover	20 oz.	6UAX9
Goof Off® Graffiti Remover	16 oz.	494K90
Liquid		
Krud Kutter® Graffiti Remover	16 oz.	10K016
	32 oz.	10K017
	1 gal.	10K018
	5 gal.	10K019
Earth Friendly Products® Graffiti Remover	32 oz.	39M999
Wipes		
Tough Guy® Graffiti Remover Towels	30 ct.	5EWC2
SCRUBS® Graffiti and Paint Remover Towels	30 ct.	4HK51

Rust Removers

Remove rust and iron stains.



No. 6XFH2



No. 4YJW3



No. 36P488

Description	Size	Item No.
Goof Off® Outdoor Rust Stain Remover	1 gal.	6XFH2
Summit Brands Super Iron Out® Multipurpose Stain Remover	28 oz.	4YJW2
	76 oz.	4YJW3
	152 oz.	4YJW4
	800 oz.	4YJW5
Summit Brands Super Iron Out® Rust Remover	16 oz.	6VME7
	1 gal.	6VME8
Krud Kutter® The Must for Rust® Rust Remover and Inhibitor	32 oz.	36P488
	5 gal.	36P490


No. 3ANW4


No. 3ANW6



No. 4HFF9



No. 10K022



No. 4FZX8



No. 4ETV3



No. 52JY95



No. 4WGE2



No. 6XFG8

Outdoor Cleaners

Deck and Fence, Outdoor, Roof, and House and Siding Cleaners—For use in a pressure washer or with ready-to-use hose end applicator.

Mold and Mildew Stain Removers—Designed to remove the ugly stains caused by mold and mildew. Available in bleach, bleach-free, and non-caustic formulas, these products are designed for a variety of surfaces inside/outside.

Mold and Mildew Killers—Clean, disinfect, and deodorize surfaces by killing mold and mildew.

Mold Blocker—Form an invisible barrier that protects against the harmful effects of mold and mildew.

Description	Size	Rec. Dilution	Item No.
Deck and Fence Cleaner			
Simple Green® Deck and Fence Cleaner Concentrate	1 gal.	1:10	3ANW4
Outdoor Cleaners and Degreasers			
Simple Green® Heavy-Duty Cleaner and Degreaser Concentrate	1 gal.	1:10	3ANW7
Simple Green® Concrete and Driveway Cleaner Concentrate	1 gal.	1:10 to 50:50	3ANW6
Roof Cleaner and Stain Remover			
Zinsser Jomax® Roof Cleaner and Mildew Stain Remover Concentrate	1 gal.	RTU	4HFF9
House and Siding Cleaners			
Simple Green® House and Siding Cleaner Concentrate	1 gal.	1:10	3ANW5
Krud Kutter® House Wash	32 oz.	RTU	10K022
	1 gal.	RTU	10K023
Zinsser Jomax® Mold & Mildew Stain Remover	32 oz.	RTU	4FZX8
Mold and Mildew Stain Removers			
Wet & Forget® Mildew & Algae Stain Remover Concentrate	64 oz.	1:5	4ETV3
	1 gal.	1:5	4ETV4
	338 oz.	1:5	4ETV5
Mold Armor® Instant Mold Mildew Stain Remover	32 oz.	RTU	6XFG7
Moldex® Bleach-Free Mold & Mildew Stain Remover	32 oz.	RTU	4WGE7
Moldex® Non-Bleach Outdoor Wash with Hose End	56 oz.	RTU	52JY95
Mold and Mildew Killers			
Moldex® Mold Killer	32 oz.	RTU	4WGE2
	1 gal.	RTU	4WGE3
	64 oz.	RTU	4WGE4
Zinsser Jomax® Mildew Killer Concentrate	32 oz.	RTU	4HFF7
	1 gal.	—	4HFF6
Mold Blocker			
Mold Armor® Mold Blocker	32 oz.	RTU	6XFG8



J-Fill® QuattroSelect® 4-Button Dispenser No. 10C407



J-Fill® QuattroSelect® 1-Button Dispenser No. 10C409

Portion Control Chemical No. 10C410



Preprinted Bottle with Sprayer No. 10F963



Diversey™

J-Fill® QuattroSelect® Lockable Dilution Control Systems

Push-button system provides a convenient solution for diluting and dispensing super-concentrated cleaners. No measuring required and no metering tip installation. Bottles come pre-tipped. 4-button unit dispenses 4 products (3 bottle fills, 1 bucket fill). Cabinet resists chemicals, stains, and scratches. Dispense mixed cleaning chemicals into convenient 32-oz. bottles with preprinted chemical labels.

Description	Item No.
J-Fill® QuattroSelect® Dispensing Units	
4-Button Chemical Mixing Dispenser (18½"L x 24¼"H x 7½"D), 3.5 gpm bucket fill rate	**10C407**
4-Button Chemical Mixing Dispenser (18½"W x 24¼"H x 7½"D, 3.1 gpm bucket fill rate)	**46E797**
2-Button Chemical Mixing Dispenser (10"L x 19½"H x 6½"D)	**13E901**
Portable Chemical Mixing Dispenser (8"W x 6"H x 4½"D)	**46E798**
Single Station Chemical Mixing Dispenser, Bottle Fill (10"L x 19½"H x 6½"D)	**10C408**
Single Station Chemical Mixing Dispenser, Bucket Fill (10"L x 19½"H x 6½"D)	**10C409**

Description	RTU Yield per Container	Size	Item No.
Heavy-Duty Power Cleaners			
Spitfire® SC	1:12	2.5L	**46E776**
General Purpose Cleaners			
Stride® Neutral, Fragrance Free	169.75 gal.	84.5 oz.	**11Y664**
Stride® Neutral, Citrus	496 to 991 gal.	2.5L	**10C411**
GP Forward®	170 to 339 gal.		**10C412**
General Purpose Cleaner	42 gal., 169 gal.		**46E768**
Peroxide Cleaners			
Alpha-HP® Multisurface Cleaner	—	84.5 oz.	**20J837**
PERdiem™ General Purpose Cleaner with Hydrogen Peroxide	42.97, 169.88 gal.		**11Y612**
Disinfectants			
Alpha-HP® Multisurface	42.933 to 169.74 gal.	2.5L	**35Z914**
Virex® II 256	339 gal.	2.5L	**10C417**
Oxivir® Five 16 Concentrate	11.23 gal.		**11Y610**
Expose® II 256	170 gal.		**11Y656**
Triad™ III	86 gal.		**10C418**
Restroom Cleaners			
Crew® Bowl and Bathroom Disinfectant Cleaner	170 gal.	2.5L	**10C415**
Crew® Shower, Tub and Tile Cleaner	27.08 gal.		**20J836**
Crew® Bathroom Cleaner and Scale Remover	13 gal.		**11Y681**
Glass and Multisurface Cleaner			
Glance® Glass and Multipurpose Cleaner	54 gal.	2.5L	**10C410**
Glance® Glass and Multipurpose Cleaner	27.08 gal.		**24K646**
Odor Control			
Good Sense® Liquid Odor Counteractant Concentrate, Unscented	60.06 gal.	2.5L	**11Y689**
Good Sense® Liquid Odor Counteractant Concentrate, Unscented	60.06 gal.		**11Y690**
Good Sense® No Smoke Liquid Air Freshener	60 gal.		**46E802**
Good Sense® SC Fabric Refresher	—		**46E767**
Floor Care			
Stride® Floral Neutral Cleaner	248.54, 496.41 gal.	2.5L	**11Y663**
UHS™ Floor Cleaner	338.8 gal.		**11Y643**
Prominence™ Heavy-Duty Floor Cleaner	169.88, 339.09 gal.		**11Y604**
Revive® Plus SC Maintainer/Rejuvenator	85.2 gal.		**11Y645**
Pro Strip® SC Floor Stripper	13 gal.		**46E810**
Carpet Care			
Carpet Extraction Cleaner	170 gal.	2.5L	**11Y648**
Carpet Prespray Treatment	26 gal.	84.5 oz	**11Y649**
Extraction Rinse SC	169 gal.	2.5L	**46E769**
Bonnet Buff SC	27 gal.		**46E771**
Food Service Cleaners			
J-512™ Sanitizer	339.09 gal.	2.5L	**33X337**
Break-Up® SC HD Cleaner Degreaser	80 to 160 gal.	2.5L	**10F973**

Description	Item No.
Preprinted 32-oz. Bottles with Sprayers	
Glance Non Ammoniated Glass Cleaner	**10F963**
GP Forward™ General Purpose Cleaner	**10F964**
Spitfire SC Power Cleaner	**10F965**
Crew NA SC Non Acid Bowl and Bathroom Disinfectant Cleaner	**10F967**
Crew Shower Tub and Tile Cleaner	**10F968**
Virex II 256 One Step Disinfectant Cleaner	**10F969**
Triad III Disinfectant Cleaner	**10F970**
Command Center Crew Shower Tub and Tile Cleaner	**18A004**
Command Center Bath Mate Acid Free Disinfectant	**18A005**
Command Center Bath Mate Nonacid Washroom Cleaner Concentrate	**18A006**
Command Center Hot Springs	**18A007**
Command Center Speedball 2000™	**18A008**
Command Center Morning Mist Neutral Disinfectant Cleaner	**18A009**
Command Center Breakdown XC Fresh	**18A011**
Command Center Raindance SC	**18A012**
Command Center PER Diem	**18A013**
Command Center Oxivir Five 16 Concentrate	**18A014**
Command Center J Works Tempest	**18A015**



No. 38TH17

No. 38TH16



No. 55JF72

Closed Loop Dispensing Systems

TOUGH GUY

Easy-to-use dispensers include a backflow preventer for locations where its required by plumbing regulations.

Description	No. of Chemicals Dispensed	H	W	D	Item No.
Dispensers					
Chemical Mixing Dispenser - Hand Held Mount	1	6"	10"	2"	**38TH17**
Chemical Mixing Dispenser - Wall Mount	4	24"	18½"	6½"	**38TH16**

Description	Fragrance	pH	VOC Content	Item No.
0.50 gal.				
Glass Cleaner	Unscented	10.5 to 11.5	0%	**55JF66**
All Purpose Cleaner	Citrus	4 to 5	0%	**55JF67**
All Purpose Degreaser	Fresh	6.5 to 7.5	0%	**55JF68**
Multi-Purpose Degreaser	Unscented	13 to 14	4.83%	**55JF69**
Bathroom Cleaner	Citrus	4 to 5	0%	**55JF70**
Deodorizer	Lavender	7.0 to 8.0	0.58%	**55JF71**
Cleaner and Disinfectant	Unscented	12 to 13	0.279%	**55JF72**


No. 46E777


No. 10C405

RTD™ Dispensing Systems

DISPENSER CHEMICALS

Maintenance-free dilution control system is built right into the bottle. Units easily attach to a common garden hose for water supply. Provide safe, accurate mixing; eliminate contact with concentrated chemicals and reduce chemical waste. Set flow lever to fill buckets or bottles.

ACCESSORIES

For use with all RTD™ bottles.

Wall-Mounted Holster—Holds two 1.5L or 5L bottles.

Water Hookup Kit—Includes instruction sheet, 5-ft. water hose, shutoff valve, and female quick-connect.

Quick Connect—Female attachment connects RTD bottles and water source.

Water Supply Hose—5-ft. hose allows greater flexibility; can easily move from one water source to another.

Wire Racks—Wall-mountable racks provide more-permanent installation and allow hands-free operation.

Description	Size	Item No.	Pkg. Qty.
Heavy-Duty (Power) Cleaner			
Spitfire® SC	1.5L	46E777	2
	5L	46E778	1
Speedball™ 2000 Heavy-Duty Spray Cleaner	1.5L	46E779	2
General Purpose Cleaners			
Stride® Citrus	5L	10C398	1
GP Forward™	1.5L	10C419	2
	5L	11Y666	1
Peroxide Cleaner			
Alpha-HP® Multisurface	1.5L	20J838	2
	5L	20J839	1
Peroxide Cleaners			
PERdiem™ General Purpose Cleaner with Hydrogen Peroxide	5L	11Y611	1
Disinfectants			
Alpha-HP®	1.5L	35Z912	2
	5L	35Z913	1
Oxivir® Five 16 Concentrate	1.5L	11Y607	2
Triad™ III	5L	11Y655	1
Virex® II 256	1.5L	10C402	2
	5L	11Y654	1
Morning Mist™ Neutral	1.5L	10C403	2
	5L	10C404	1
Restroom Cleaners			
Bath Mate™ Non-Acid Washroom Cleaner	1.5L	46E788	2
Crew® Restroom Floor & Surface Non-Acid Disinfectant Cleaner	1.5L	11Y676	2
	1.5L	11Y675	2
Crew® Shower, Tub and Tile Cleaner	1.5L	11Y683	2
	1.5L	10C405	2
Crew® Bathroom Cleaner and Scale Remover	1.5L	10C401 *	2
Glass and Multisurface Cleaners			
Glance® NA Glass and Multipurpose Cleaner	1.5L	10C397	2
Glance® HC	1.5L	38M488	2
	5L	38M489	1
Odor Control			
Good Sense® Liquid Odor Counteractant Concentrate	1.5L	11Y688	2
Good Sense® Fresh Phase® Fabric Freshener	1.5L	46E787	2
High-Efficiency Low Odor			
Pro Strip™ SC High Efficiency Floor Stripper	5L	20J849	1
Floor Care			
Prominence™ Heavy Duty Floor Cleaner	5L	11Y605	1
UHS™ Floor Cleaner	5L	11Y644	1
Revive™ Plus SC Maintainer/Rejuvenator	5L	11Y646	1
Carpet Care			
Heavy-Duty Prespray Plus	1.5L	11Y650	2
Extraction Rinse	1.5L	46E770	2
Food Service			
Final Step™ 512 Sanitizer	5L	46E793	1
Suma® EliminеX® Foaming Drain and General Purpose Cleaner	1.5L	33X334	2
Diversey™ Suma® Kitchen Degreaser	5L	33X333	1
Accessories			
Wall-Mounted Holster		1DE90	1
Water Hookup Kit		4DU34	1
Quick Connect		4DU35	1
Water Supply Hose		4DU36	1
Wire Rack for (2) 1.5 Liter RTD Bottles		2ZHV4	1
Wire Rack for (2) 5 Liter RTD Bottles		2ZHV5	1

**** Meets Green Seal® GS-37 standards for industrial and institutional cleaners based on their reduced human and aquatic toxicity and reduced smog production potential.***



No. 15V144


No. 15V147


No. 15V140



No. 10A336


No. 10A343

Command Center™ Dispensing Systems

Push-button dispensing system dilutes super-concentrated chemicals; no mixing by hand. Dilution rate can be easily adjusted and units can be joined together in any combination of 1- and 4-button units for custom dispensing solutions. Chemicals are numbered and color-coded for easy identification.

Description	Item No.
Command Center™ Dispensers	
4-Button Dispensing System with Air Gap Eductors	15V144
4-Button Dispensing System with E-Gap Eductors	15V145
1-Button Dispensing System for Bottles	15V146
1-Button Dispensing System for Buckets	15V147

Description	RTU Yield per Container	Size	Item No.
Industrial Cleaners			
Tempest™ Solvent-Free Cleaner/Degreaser	97.50 to 151.50	1.5 gal.	15V140
General Purpose Cleaner			
Hot Springs™ Heavy-Duty Cleaner	195 to 387 gal.	1.5 gal.	10A338
Peroxide Cleaner			
PerDiem™; PerDiem Cleaner	97.5, 193.5, 385.5 gal.	1.5 gal.	15V143
Disinfectants			
Morning Mist™ Neutral	97.5 gal.	1.5 gal.	15V141
Oxivir™ Five 16 Concentrate	97.5 to 193.5 gal.		15V142
Virex™ II 256	385.5 gal.		10A336
Restroom Cleaners			
Bath Mate™ Acid-Free Disinfectant Washroom Cleaner Concentrate	19.5 gal.	1.5 gal.	10A344
Crew® Bathroom Cleaner and Scale Remover	28.5 gal.		20J844
Glass and Multisurface Cleaner			
Glance® NA Glass and Multipurpose Cleaner	61.5 gal.	1.5 gal.	10A335
Odor Control			
BreakDown™ Odor Eliminator Concentrate #40, Fresh	33 to 387 gal.	1.5 gal.	10A343
Floor Care			
Raindance™ Neutral Cleaner	385.5 gal.	1.5 gal.	10A348



3M™ Twist 'n Fill Dispenser (Chemical Concentrates Sold Separately)

Description*	Item No.
Dispensers and Shelves	
Twist 'n Fill™ Dispenser	2U692
Twist 'n Fill™ Dispenser with Pressure Relief Valve	4YEP7
Twist 'n Fill™ Dispenser with Lockable Cabinet	16Z996
Wire Shelf	2BV53
Preprinted Bottles, Pkg. of 12	
1L Glass Cleaner Bottle w/Sprayer	2AV87
2L H-D Multisurface Cleaner Bottle w/Sprayer	1HH99
4L Bathroom Cleaner Bottle w/Spout Cap	1GH05
4L Bathroom Cleaner Bottle w/Sprayer	1HH98
5L Quat Disinfectant Bottle w/Sprayer	1HH97
8L General-Purpose Cleaner Bottle w/Sprayer	1GH06

Dilution Control Systems

3M

3M™ TWIST 'N FILL™ CLEANING CHEMICAL MANAGEMENT SYSTEM

Tamper-resistant cap helps to prevent contact with hazardous chemicals.

Dispensers

Compact and versatile chemical dispenser dilutes chemical concentrates with water to accurately dispense cleaning products.

No. 4YEP7 features additional pressure relief valve. Integral air gap meets ASME/ANSI A112.12 and ASSE.1055B requirements, and prevents chemical back flow into water supply.

Wire Shelves

Provide neat storage and easy accessibility of chemicals. Store four 2L bottles. Also available in locking style.

Preprinted Bottles

Dispense mixed cleaning chemicals into labeled spout cap or sprayer bottles. 32-oz. bottles.

Chemical No.*	Description	RTU Yield per Container	Item No.		Item No.
3M™ Chemical Concentrates, 2 Liter					**Secondary Labels, Pkg. of 12**
1L	Glass Cleaner	30 gal.	4EB95	†	1CJ98
2L	Heavy-Duty Multisurface Cleaner	7 gal.	2U674		1CJ97
3H	Neutral Cleaner	207 gal.	2U675	†	5YR48
3L	Neutral Floor Cleaner		28AD44		5YR48
4L	Bathroom Disinfectant Cleaner	27 gal.	2U676		1CJ95
5H	Quat Disinfectant Cleaner	127 gal.	4HN95		1CJ94
5L			4HN94		1CJ94
6H	Speed Stripper	8.2 gal.	2U679		1CJ92
7H	Food Service Degreaser	123 gal.	4MH68		1CJ90
7L			4MH69		1CJ90
8H	General-Purpose Cleaner	35 gal.	2U683	†	1CJ88
8L			2U682	†	1CJ88
11L	Scotchgard™ Bonnet Cleaner	26 gal.	5ND37		2FP43
12L	Country Day Scent Deodorizer	36 gal.	2BW59		2FP44
13L	Fresh Scent Deodorizer	30 gal.	2BW61		2FP45
14L	Mountain Spice Deodorizer	36 gal.	2BW60		—
15L	Nonacid Disinfectant Bathroom Cleaner	61 gal.	3VC57		3XH40
16L	Sanitizer	135 gal.	2BW55		—
17L	Glass Cleaner and Protector	42 gal.	20AT45		—
19L	Nonacid Bathroom Cleaner	26 gal.	4HN93		4MJ01
20L	Heavy Duty Glass Cleaner	12 gal.	28AD45		—
21L	Floor Cleaner	2.8 gal.	28AD46		—
22H	Floor Stripper LO	11 gal.	4WK27		4YJ25
23H	Neutral Quat Disinfectant Cleaner	120 gal.	4WK25		4YJ26
23L			5YL86		4YJ26
24H	3-in-1 Floor Cleaner	137 gal.	4WK26	†	4YJ27
25H	HB Quat Disinfectant Cleaner	180 gal.	5YL83		5YR50
25L			5YL84		5YR50
26H	Industrial Degreaser	74 gal.	3HB91		3RA85
26L			3HB92		3RA85
27H	Scotchgard™ Extraction Cleaner	53 gal.	4DE37		4GY92
28H	Scotchgard™ Pretreatment Cleaner	24 gal.	4DE38		4GY93
33H	Neutral Cleaner LO	207 gal.	3GZX1	†	—
34H	Peroxide Cleaner Concentrate	53 gal.	35YY75		—
34L	Peroxide Cleaner		28AD47	†	—
40L	Cleaner and Disinfectant	123 gal.	35YY74		—
44L	Bathroom Cleaner	27 gal.	3GZX2	†	—
51L		29 gal.	35YY77		—
52L	Tile, Grout, and Bowl Cleaner	2.6 gal.	5YL88		5YR53

**** L = Low flow for bottle filling. H = High flow for bucket filling. † Meets Green Seal® standards for industrial and institutional cleaners based on its reduced human and aquatic toxicity and reduced smog production potential.***



No. 39CZ46

3M

Chemical Mixing Dispenser Systems

3M™ Flow Control System Dispensers—Dispensers are accurate, compact, and simple. Designed to mix and dispense multiple cleaning solutions with high dilution accuracy. Dispensers are lockable and easy to operate. Dispense 2 gpm.

3M™ Flow Control Portable Dispensers—Bring highly accurate dilutions to on-the-go convenience.

3M™ Flow Control System Chemical Concentrates—Feature numbered and color-coded labels for easy identification.

Description	Mfr. Model No.	Item No.
3M™ Flow Control System Dispensers		
Wall Mount, Action Gap, with Pressure Relief Valve	85851	39CZ45
Wall Mount, Air Gap	85852	39CZ46
Wall Mount, Air Gap, with Pressure Relief Valve	85853	39CZ47
3M™ Flow Control System Portable Dispenser		
Portable Dispenser	85849	39CZ43
Portion Control Dispenser Hose	85882	39CZ48

Chemical No.	Description	RTU Yield per Container	Item No.
3M™ Flow Control System Chemical Concentrates			
1A	Glass Cleaner	35 gal.	39CZ49
2A	Heavy Duty Multi Surface Cleaner	7.25 gal.	39CZ50
3A	Neutral Cleaner	200 gal.	39CZ51
4A	Disinfectant Bathroom Cleaner	26 gal.	39CZ52
6A	Speed Stripper	10 gal.	39CZ53
7A	Food Service Degreaser	149 gal.	39CZ54
8A	General Purpose Cleaner	35 gal.	39CZ55
13A	Fresh Scent Deodorizer	30 gal.	39CZ56
15A	Non-Acid Bathroom Disinfectant Cleaner	61 gal.	39CZ57
16A	Sanitizer	75 gal.	39CZ58
17A	Glass Cleaner and Protector	40 gal.	39CZ59
22A	Floor Stipper LO	11 gal.	39CZ60
24A	Portion Control Floor Cleaner	132 gal.	39CZ61
25A	HB Quat Disinfecting Cleaner	155 gal.	39CZ62
26A	Industrial Degreaser	76 gal.	39CZ63
34A	Peroxide Cleaner	50 gal.	39CZ64
40A	Disinfectant Cleaner RCT	116 gal.	39CZ65

Description	Size	Rec. Dilution	Brand	Item No.	Pkg. Qty.
Heavy-Duty					
Pro Strip® Heavy-Duty Non-Butyl Floor Stripper	1 gal.	1:2 to 1:10	Diversey	10C422	1
	5 gal.			10C423	
Heavy-Duty Non-Butyl Floor Stripper	1 gal.	1:4	Tough Guy	444N57	
	5 gal.			444N58	
Nonammoniated, Easy-Rinsing Floor Stripper	2.5 gal.		3M	3U142	
Heavy-Duty Low Odor					
Bravo® Floor Stripper	1 gal.	1:4 to 1:8	Diversey	10C424	1
	5 gal.			10C425	
Ultra Heavy-Duty					
Pro Strip™ ULTRA Heavy-Duty Floor Stripper	5 gal.	1:4 to 1:10	Diversey	20J852	1
UHS					
Bravo® 1500+ UHS Floor Stripper	5 gal.	1:4 to 1:8	Diversey	20J853	1
Noncorrosive					
Pro Strip™ PURE Non-Corrosive Floor Stripper	5 gal.	1:4 to 1:6	Diversey	20J850	1
Linoleum					
LinoSAFE® Linoleum Stripper	5 gal.	1:4	Diversey	15V148	1
Baseboard					
Bravo® Power Foam	23 oz.	RTU	Diversey	10F958	1
Foaming Formula	20 oz.		Tough Guy	2DCA6	
Tough Guy® Wax & Soil Remover				6PEC3	
Z-Tread			Zep Professional	5DPT9	
TroubleShooter™ Baseboard Strippers Aerosol	21 oz.		3M	3U123	
TroubleShooter™ Liquid Finish Remover	32 oz.			4WH66	6


No. 444N57


No. 10C425


No. 20J852


No. 2DCA6


No. 3U123

Floor Strippers

Heavy-Duty—Penetrate and emulsify the toughest UHS burnished finishes. Works the first time, eliminating the need for restrips.

Ultra Heavy-Duty—Fast-acting stripper begins to emulsify most finishes on contact, reducing normal soak times.

UHS—Specially-formulated for high- and ultra high-speed floor care programs. Quickly penetrates and emulsifies finish.

Noncorrosive—Formula is noncorrosive to eyes and skin without sacrificing performance. Chemical goggles and gloves are not required.

Linoleum—Effectively removes existing finish without damaging floor. Also works on marble and other sensitive substrates.

Baseboard—Ready-to-use, fast-acting formulas are ideal for using on spot build-ups, especially around baseboards.

Description	Solids Content	Req. Brush Speed	Brand	1 GAL. Item No.	5 GAL. Item No.
Ultra High Solids					
TimeSaver SR®	0.0031	175 to 1500 rpm	Diversey	11Y615	11Y616
High Solids					
Low Maintenance 25	25%	1500 rpm	Zep	451F37	451F38
Low Maintenance 25	0.25	1500 to 3000 rpm	Scotchgard	—	4WK33
Medium Maintenance	0.0025	1500 to 3000 rpm	Tough Guy	—	444N48
Brilliant Appearance					
Vectra®	19%	175 to 1500 rpm	Diversey	10F949	10F950
Zinc-Free					
Aquaria®	0	1500 rpm and Above	Diversey	—	10F953
Economical					
Complete®	0	175 to 1500 rpm	Diversey	—	10F952
Low Maintenance	16%	150 to 1500 rpm	Tough Guy	444N49	444N50
Scotchgard™ Low Maintenance 18	0.18	175 to 3000 rpm	Scotchgard	—	4WK76
High Solids UHS					
High Mileage®	0.0025	1500 rpm and Above	Diversey	—	11Y629
UHS					
Signature®	0.002	1500 rpm and Above	Diversey	—	11Y627
Scotchgard™ UHS 25	0.25	1500 to 3000 rpm	Scotchgard	—	4WK53
Urethane-Fortified UHS					
High Noon™	0.002	1500 rpm and Above	Diversey	—	11Y634
Black Floor					
Blackjack™ Black Plank	0	175 to 1500 rpm	Diversey	—	10F954
Z-Tread Black Floor	0.2	150 to 3000 rpm	Zep Professional	—	5DMZ3
Finish/Sealer					
Carefree®	0.002	175 to 1500 rpm	Diversey	—	11Y622
Sealers					
Over & Under® Plus	0	1500 rpm and Above	Diversey	10F956	10F957
Floor Sealer	19%	200 rpm	Zep	451F43	451F44


No. 451F38


No. 444N49


No. 10F954

Floor Finishes and Sealers

Ultra High Solids—Need fewer coats to achieve a high-gloss appearance.

High Solids—25% solids provide a long-lasting, high-gloss finish.

Brilliant Appearance—Diamond-like brilliance, clarity, and durability. Feature fast cure time, excellent buff response, and reduced marking, scuffing, and scratching.

Zinc-Free—Clean, long-lasting finish for environmental purchasing programs.

Economical—Create a durable finish that reduces the need to strip and refinish.

High Solids UHS—Delivers excellent gloss build and durability.

UHS—Ultra high-speed labor-saving finish delivers a wet look gloss without daily burnishing. No. 11Y634 is fortified with urethane for added durability.

Black Floor—Designed for black plank asphalt floor care programs.

Finish/Sealer—Formulated to work with any maintenance method and equipment of all types of floors.

Sealers—For all finishes used on resilient flooring. Seals pores of flooring and levels the surface.

Premeasured Cleaner Packets

Color-coded for added safety and convenience. 90 packets per recyclable plastic tub, 2 tubs per case.

Neutral Cleaner—Cleans and protects high-gloss, high-solids finishes in high-traffic areas. Won't leave a dulling film, even without rinsing.

All-Purpose Cleaner—Effectively cleans a wide variety of surfaces, including stainless steel, chrome, porcelain, ceramic, terrazzo, and vinyl.

Bowl Cleaner—A blend of enzymes and detergents attacks organic waste, scale, and urinary salts.

Cleaner Degreaser—Use on multiple surfaces including vinyl, asphalt, ceramic tile, quarry tile, stainless steel, linoleum, and concrete.

Neutralizer Conditioner—Neutralizes urine odors on hard floors, grout, and carpeting.

Detergent/Disinfectant—Cleans, deodorizes, and disinfects hard, nonporous surfaces.

Description	Item No.
Neutral Cleaner, 90 Packs per Tub	3U569
All-Purpose Cleaner, 90 Packs per Tub	1CF07
Bowl Cleaner, 90 Packs per Tub	3U568
Heavy-Duty Cleaner Degreaser, 36 Packets per Canister	2CXU9
Neutralizer Conditioner, 90 Packs per Tub	2CXV1
Detergent/Disinfectant, 90 Packs per Tub	20J160


No. 3U569


No. 20L002



No. 20L001


No. 20L003

Floor Sweepers

Sweep with electrostatically-charged dry cloths to remove hair, dust, and dirt. Entangled microfibers in disposable cloths trap and hold dirt in place. Use presoaked wet cloths to dissolve tough soils, dirt, and grime. Feature a special scrubbing strip for especially tough jobs.

Description	Size	Item No.	Pkg. Qty.
Swiffer® Sweeper	10"	20K997	3
Swiffer® Sweeper Wet Refill Cloths	8" x 10"	20L002	12
Swiffer® Sweeper Dry Refill Cloths	8" x 10"	20L001	6
Swiffer® Max Sweeper	17"	20L003	3
Swiffer® Max Sweeper Dry Refill Cloths	17¾" x 10"	20L004	6


No. 2ZHT2


No. 451A37



No. 10F942



No. 2TEF9


No. 10F943



No. 24L282



No. 2NDT2


No. 24L286

Description	Size	Brand	Item No.	Pkg. Qty.
Rubber Floor Cleaners				
Profi™	1 gal.	Diversey	2ZHT1	1
WiWax Cleaner and Maintainer	1 gal.	Diversey	2ZHT2	1
Concrete Floor Cleaners				
Heavy-Duty Concrete and Masonry	1 gal.	Zep Professional	3HUP4	1
	5 gal.	Zep Professional	3HUP5	1
Zep Flash Heavy-Duty Cleaner, Powder	40 lb.	Zep	451A37	1
Zep Flash Heavy-Duty Cleaner, Granules	125 lb.	Zep	451A36	1
Neutral Cleaners				
Stride® Citrus	32 oz.	Diversey	11Y660	1
	1 gal.	Diversey	10F941	1
	5 gal.	Diversey	10F942	1
	1.4L	Diversey	6EFY1	1
Stride™ SC	5 gal.	Diversey	11Y662	1
Neutral Concentrate	2.5 gal.	3M	28AD38	1
Neutral pH	1 gal.	OdoBan	2TEF9	4
Floral	5 gal.	Tough Guy	444N61	1
	55 gal.	Tough Guy	444N62	1
Fresh	1 gal.	Tough Guy	444N67	1
General Purpose Cleaners				
Stride® Citrus	5L	Diversey	10C398	1
GP Forward™	32 oz.	Diversey	11Y665	1
	1 gal.	Diversey	10F943	1
	5 gal.	Diversey	10F944	1
	5 L	Diversey	11Y666	1
	1.5 L	Diversey	10C419	2
Floor and All-Purpose	18 lb.	Tide	24L282	1
	36 lb.	Tide	24L283	1
Liquid	1 gal.	Spic and Span	2NDT2	3
Finished Floor	1 gal.	Mr. Clean	24L286	3
Peroxide Cleaner				
Alpha-HP® Multisurface	1.5 L	Diversey	20J838	2
	5 L	Diversey	20J839	1

Floor and General Purpose Cleaners

Rubber Floor Cleaners—Clean, shine, and protect. No. 2ZHT1 is solvent-free and emulsifies dirt quickly. No. 2ZHT2 is a blend of detergent, waxes, and polymers.

Concrete Floor Cleaners—Remove grease and dirt from concrete floors. Nos. 3HUP4 and 3HUP5 are concentrated for auto scrubbers and mop buckets. Nos. 451A37 and 451A36 change color when wet to indicate performance and rinse easily.

Neutral Cleaners—Formulated for everyday cleaning. Will not dull floor finish and does not require rinsing.

General Purpose Cleaners—For cleaning and degreasing applications. Excellent for scrub and recoat floor programs.

Peroxide Cleaners—Clean without dulling. Approved for use in carpet extraction, prespray, and spotting.


No. 1YRR4


No. 2XJ93



No. 495X51

Fabric Refreshers

Eliminate trapped odors in fabrics, does not cover them up. Leave a fresh-smelling scent. Safe for many fabrics and carpet.

Description	Size	Brand	Item No.	Pkg. Qty.
Air Sponge Spray with 1-Gal. Refill	22 oz.	Tough Guy	1YRR4	4
Air Sponge Spray Refill	1 gal.	Tough Guy	1YRR5	4
Febreze™ Spray	32 oz.	Febreze	2XJ93	8
Odor Eliminator, Lavender Vanilla	32 oz.	Earth Friendly Products	495X51	1
	1 gal.	Earth Friendly Products	495X52	1
Fabric Refresher, Fresh Clean	1 gal.	Febreze	46F047	3

Vented Dispensing Container

TOUGH GUY

Extended faucet helps fill bottles and other containers without spilling. Molded graduations.



Cap.	Includes	Item No.
5 gal.	Closures and Faucet	3U595

Pro-Blend Chemical Dispensers

Tolco CORPORATION

Accurately measure up to 3 oz. (90mL) of chemicals. Screw onto chemical bottles (not included). Set exact amount of liquid needed with adjustable regulator, squeeze to fill chamber, then pour. Graduated in ¼ oz. and 5mL increments.



Gallon Adapter No. 2UY28

Description	Mfr. Model	Item No.
28mm Quart Adapter	200309T	2UY29
38mm Gallon Adapter	200308T	2UY28

Dispensing Rack and Wire Basket

TOUGH GUY

Organizes liquids using only 14" x 15½" of floor space and is less than 5 ft. high. Strong, safe, and stable. Rack snaps together without nuts, bolts, or screws. Stores up to 20 gal. of liquid plus supplies. Fill spray bottles without spilling. Designed with 11" extension legs to easily accept 5-gal. dispensing containers. Wire basket, sold separately, conveniently stores spray bottles on plastic shelving.



Dispensing Rack

Description	Shelf Cap.	H	W	D	Item No.
Dispensing Rack	50 lb.	48"	14⅜"	20"	3U596
Wire Basket	—	4"	10½"	4"	3U598

No. 6DMY1



Expandable Floor Dams

TOUGH GUY

Prevent chemicals and liquids from running through doorways to protect rooms not intended to be stripped. Plastic construction with fluorescent yellow/green color and rubber seal. Easy to install; expand to fit most doorways.

L	H	Color	Item No.
24" to 40"	4½"	Yellow/Green	6DMY1
36" to 64"	4½"	Yellow/Green	6DMY2



Plastic Funnel



Polyethylene Scoop



Polyethylene Measuring Cup

Funnel, Scoop, and Measuring Cup

TOUGH GUY

Description	Item No.
16-oz. Plastic Funnel; 5½" High, 5" dia. top; Natural Color	3U605
3-qt. Polyethylene Scoop; White	3U607
8-oz. Polyethylene Measuring Cup; oz./ml Scale Molded Inside; Natural Color	3U608

Compressed Air Sprayers

TOUGH GUY

Tolco CORPORATION

Industrial pressure sprayers with a wide mouth for easy filling. No. 4YJ23 has Viton® gaskets, a multifunction nozzle that adjusts from stream to mist, and a metal pump plunger rod. No. 1LXH3 has a nozzle with stream, mist, flat, foam, and off settings. Use with water-based solutions only.



No. 4YJ23

Size	Color	Brand	Item No.
2 qt.	Gray/Clear	Tough Guy	4YJ23
50 oz.	Black/White	Tolco	1LXH3

Trigger Sprayers and Spray Bottles

TOUGH GUY

Tolco CORPORATION



No. 3U594



No. 4TH69

Adjust nozzle from fine mist to jet stream. Round spray bottles feature molded-in oz./mL and dilution scales.

Description	For Use With	Brand	Item No.
Trigger Sprayers			
General Use	24 or 32 oz. Bottle	Tough Guy	3U594
Foaming	24 or 32 oz. Bottle	Tough Guy	3U603
Heavy-Duty Large	24 or 32 oz. Bottle	Tough Guy	4TH69
Upside Down, Pkg. 12	24 or 32 oz. Bottle	Tough Guy	2ZWN7
Chemical-Resistant	24 oz. Bottle	Tough Guy	1CH73
Chemical-Resistant	32 oz. Bottle, 1.4 ml Output	Tolco	1CH72
Spray Bottles with Screen Printing			
24-oz. Bottle	7¼" Stem Trigger Spray	Tough Guy	3U592
Nonleaking 24-oz. Bottle w/Sprayer, Pkg. 12	—	Tough Guy	2ZWN8
32-oz. Bottle	9¼" Stem Trigger Spray	Tough Guy	3U593

Color-Coded Trigger Sprayers

TOUGH GUY

The 360° dual-spray bottle allows you to use all the product in the container by providing a continual spray at every angle including upside down. Offers a constant fine spray with less hand fatigue. Colored bases provide additional safety and organization by helping distinguish between different chemicals. Viton® seals resist most common chemicals and detergents. Feature a level indicator embossed on container; marked in both mL and pints.



No. 35WT51



No. 35WT56



No. 35WT59

Size	Color	Item No.
Dual-Spray Bottles		
0.5L	White/Blue	35WT50
0.5L	White/Green	35WT51
0.5L	White/Yellow	35WT52
0.5L	White/Red	35WT53
1L	White/Blue	35WT54
1L	White/Green	35WT55
1L	White/Yellow	35WT56
1L	White/Red	35WT57
Compression Spray Bottles		
1L	White/Blue	35WT58
1.5L	White/Blue	35WT59

No. 2NXW4





No. 4W307

TOUGH GUY

Rubbermaid Commercial Products



No. 4CY23



No. 1CG18

Tool Organizers

CARRY TOTE

Holds and transports quart bottles and other small cleaning items. Durable plastic construction with hand grip.

34" ORGANIZER/TOOL HOLDER

Features 3 S-hooks, 2 double hooks, 1 message clip, and 1 carry sling for electrical cord.

18" ORGANIZER/TOOL HOLDER

Features 2 S-hooks and 1 double hook. Pkg. of 6.

RIM CADDY

BRUTE® rim caddy snaps securely onto the rim of BRUTE 44-gal. trash cans and features storage compartments and hooks, plus smooth surfaces for easy cleaning.

CADDY BAG

The BRUTE® trash can caddy bag fits 32- or 44-gal. BRUTE containers. Large elastic pockets are designed to hold cans, bottles, tools, cleaning utensils, and other accessories. Adjustable buckles.

Description	L	W	H	Brand	Item No.
Carry Tote	15⅞"	10⅝"	4⅝"	Tough Guy	2NXW4
34" Organizer/Tool Holder	34"	½"	3¼"	Rubbermaid	4W307
18" Organizer/Tool Holder	18"	3¼"	4¼"	Rubbermaid	3U663
Round Rim Caddy	32½"	26½"	6¾"	Rubbermaid	4CY23
Caddy Bag for Round or Square Trash Cans	20"	23½"	20½"	Rubbermaid	1CG18



General Purpose Cart
No. 5M880



HYGEN™ Microfiber Cart with Charging Bucket
No. 6JHV1



High-Security Microfiber Cart
No. 1PBJ9

Janitorial Cleaning Carts

Rubbermaid Commercial Products

TOUGH GUY

- Swivel casters are nonmarking

GENERAL PURPOSE CARTS

Space-saving carts accommodate common cleaning items and waste collection.

HYGEN™ MICROFIBER MOPPING KIT WITH CHARGING BUCKET

Designed to help reduce cross-contamination when damp mopping in healthcare environments, and help improve dry time. Cleans up to 5000 sq. ft. Bucket is fully-loaded with microfiber pads.

HIGH-CAPACITY MODULAR

Provide 40% more storage than standard janitor carts, in the same footprint, with 30% larger, leakproof, zippered, side-opening waste bags. Accommodate 32- to 55-gal. BRUTE™ containers. Securely hold WaveBrake® Dual water mopping combos or microfiber mop bucket dollies. Include 2 bottle caddies and 5 rubber tool grip handle holders.

Can be used with Microfiber Disinfecting Bucket No. 5NY73, sold separately on page 1534.

High-Security Microfiber, No. 1PBJ9

Locking doors and security hood open on both sides for quick, easy access. Includes waste cover.

JanSan Microfiber, No. 1PBJ8

Features 4 removable, color-coded pails, 4 nonmarking 4" swivel casters, and a folding front platform. Includes two 30-qt. storage bins and mop bucket attachment.

JanSan Microfiber, Nos. 1PBJ7 and 1PBJ6

Include folding front platform and mop bucket attachment.

Description	Trash Bag Cap.	Overall L	Overall W	Overall H	Color	No. of Shelves	Casters	Wheels	Brand	Item No.
General Purpose Carts										
Traditional Cleaning Cart	24 gal.	46"	21¾"	38⅜"	Blue	1	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**9PVE1**
Traditional Cleaning Cart	24 gal.	46"	21¾"	38⅜"	Black	1	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**5M880**
High-Capacity Cart	25 gal.	56"	19¾"	38"	Black	1	(2) 3"	(2) 8"	Tough Guy	**5JKY3**
HYGEN™ Microfiber Mopping Kit with Charging Bucket										
Microfiber Janitor Cart With Charging Bucket Cart with 2 Mops, Safety Sign and Mesh Laundry Bag	34 gal.	48¼"	22"	53½"	Black	2	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**6JHV1**
High-Capacity Modular Janitorial Carts										
High-Security Microfiber Cart	34 gal.	48¼"	22"	53½"	Black	1	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**1PBJ9**
JanSan Microfiber Cart	34 gal.	48¼"	22"	44"	Black	1	(4) 4"	8"	Rubbermaid Commercial Products	**1PBJ8**
JanSan Microfiber Cart	34 gal.	48¼"	22"	44"	Black	1	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**1PBJ7**
JanSan Cart	34 gal.	49¾"	22 1⁹⁄₆₄"	44½"	Black	1	(2) 4"	(2) 8"	Rubbermaid Commercial Products	**1PBJ6**
Accessories										
Locking Compartment for No. 5M880	—	20"	16"	11¼"	Yellow	—	—	—	Rubbermaid Commercial Products	**4YJ55**
Replacement Bag for No. 5M880	—	17½"	10½"	30½"	Yellow	—	—	—	Rubbermaid Commercial Products	**52VK78**



Full-Size
No. 1RF35



High-Security
No. 1LWP3

Structural Foam Housekeeping Carts

Rubbermaid Commercial Products

A complete system solution for cleaning high-profile areas.

FULL-SIZE

Carts with vinyl bags and convenient shelves can be used to service 13 to 16 rooms.

COMPACT FOLDING

Space-efficient cart can service 9 to 12 rooms and fold down for storage. Has 5 cu.-ft. of cabinet area which can be accessed through double-locking doors on both sides of cart. With vacuum holder, zippered fabric waste/linen bag, and removable 10-qt. sanitizing caddies.

HIGH-SECURITY

Ergonomic, lightweight cart with compact footprint. Only 22"W ideal for fitting in space-constrained areas. Locking security hood and doors secure supplies when cart is unattended. Includes vacuum holder, 2 zippered linen/waste bags, rubber tool grips and hooks, and large 7.5 cu.-ft. capacity.

Description	Overall L	Overall W	Overall H	Color	No. of Shelves	Casters	Wheels	Item No.
Housekeeping Carts								
Full-Size without Doors	60"	22"	50"	Black	1	(2) 8"	(2) 8"	**1RF35**
Executive Full-Size Housekeeping Cart	61¾"	23⅛"	18⅝"	Gray	2	(4) 8"	—	**14J684**
Compact Steel Body with Powder-Coated/ Baked-On Finish	49"	22"	50"	Black	—	—	—	**8VMF8**
High-Security	51¾"	22"	53½"	Black	2	(2) 4"	(2) 8"	**1LWP3**
Housekeeping Cart Accessories								
Replacement Vinyl Bag for No. 1RF35	17½"	10½"	33"	Black	—	—	—	**49DR37**
9-Pouch Pocket Bag for No. 1LWP3	28"	19½"	1½"	Black	—	—	—	**1LWP5**



Large Cart
No. 39UL36

Executive Quick Carts

Rubbermaid Commercial Products

High-performance polyester carts feature pockets, caddy, and main compartment that includes adjustable dividers. Convenient removable caddy and inner liner promote easy cleaning or replacement. All carts have 6 outer pockets (including 1 plastic-lined) and 6 inner pockets, except Small cart has 5 outer pockets.

Description	Overall L	Overall W	Overall H	No. of Shelves	Wheel Dia.	CART Item No.	LINER Item No.	CADDY Item No.	PLASTIC POCKET LINER Item No.
Large—60 lb. cap., 3.55 sq.-ft. of total vol. cap.	22"	15"	24¾"	1	4"	**39UL36**	**39UL32**	**39UL34**	**39UL39**
Medium—40 lb. cap., 3.07 sq.-ft. of total vol. cap.	22"	15"	21¼"	1	4"	**39UL33**	**39UL35**	**39UL34**	**39UL39**
Small—30 lb. cap., 2.80 sq.-ft. of total vol. cap.	22"	15"	17"	1	4"	**39UL31**	**39UL37**	**39UL38**	**39UL39**



No. 5W544



No. 3UU66



No. 4HY60



No. 3NB47 (Safety Tape Not Included)

Safety Solutions

Rubbermaid Commercial Products

Safety Signs—Lightweight, versatile signs for effective safety communication.

Safety Cones—Highly visible, bright yellow hazard protection system. Pop-up safety cones collapse and store in a tube mounted to the wall. Folding safety cone folds and slides into a compact storage shell.

Barriers—Easy-to-use, highly visible barrier systems. Mobile barrier extends to 13 ft. when opened.

Description	H	Item No.
Safety Signs		
"Caution" Multilingual, 2-Sided	25"	3U953
"Caution—Wet Floor", 2-Sided	25"	5W544
"Caution—Wet Floor", 4-Sided	37"	3XH26
Safety Cones		
"Caution—Wet Floor" Multilingual Cone	36"	3NB42
"Caution" Multilingual Pop-Up Cone	20"	3UU65
"Caution" Multilingual Pop-Up Cone	30"	3UU66
"Caution—Wet Floor" Multilingual Pop-Up Cone	18"	9XZN4
"Caution—Wet Floor" Multilingual Pop-Up Cone	31"	6XMH1
"Caution" Multilingual Folding Cone	20"	4HY60
Barriers		
Indoor Mobile Barrier	40"	4CY24
Cone Barricade System	39¾"	3NB47

TOUGH GUY

Barricade Cone System No. 2LEC8



Pedestrian Safety Cones and Barriers

FLOOR SIGNS

Double-sided signs help identify short-term unsafe conditions. Durable 85% LDPE/15% HDPE plastic material. Fold away for easy storage.

SAFETY CONES

Feature black messaging on all 4 sides.

Barricade Cone System—Includes 1 cone, 1 weighted base, and 1 nylon barricade belt. 2 units are required to make complete system.

Accessories—Weighted Base No. 2LED3 helps stabilize 36" safety cones. Flashing Light No. 2LEC9 requires one D battery, not included. Sign Holder No. 2LED2 snaps into the top of 36" cones to hold standard rigid signs. Lock-In Sign Message Board No. 6VKT2 is injection-molded polypropylene and is suitable for high-traffic indoor areas. Message Labels No. 6GJA1 are polypropylene and compatible with safety cones. All are for use in hospital, office, and school applications.



Door and Hallway Barricade No. 2LEB6



Safety Barricade System No. 2LEB5

DOOR AND HALLWAY BARRICADES

Pole Barricade No. 2LEB6 telescopes 42" to 72", and No. 6GJA0 telescopes 30" to 44" to close off areas to foot traffic. Double-locking design with adjustable torsion lock and rubber ends grip the door frame or wall.

No. 2LEB7 yellow plastic Sign Barricade with "Closed" symbol restricts access to doors and hallways.

EXPANDABLE MOBILE SAFETY BARRICADE SYSTEM

Accordion-style barricade expands up to 13 ft. Flexible panels can be manipulated to fit a variety of applications. Folds for convenient storage.

Description	Item No.
Floor Signs	
"Caution", Multilingual, 2-Sided, 24"	2LEA8
"Caution", Multilingual, 4-Sided, 37"	2LEA9
"Caution Forklift Traffic", 24"	6DMF9
"Caution Men Working", 24"	6DMG6
"Caution Watch Your Step", 24"	6DMF8
"Caution Wet Floor", 24"	6DMH2
"Closed/Cerrado/Geschlossen/Ferme", 2-Sided, 24"	2LEB1
"Closed/Cerrado/Geschlossen/Ferme", 4-Sided, 37"	2LEB2
"Asbestos", 24"	6DMG2
"Danger Do Not Enter", 24"	6DMH4
"Danger Chemical Spill", 24.8"	6DMG3
"Confined Space", 24"	6DMG7
"Handling Chemicals", 24"	6DMH5
"Hazardous Area", 24"	6DMH3
"Danger No Smoking", 24"	6DMG1
"Danger Overhead Hazard", 24"	6DMG0
"Keep Right/Left", 24"	6DMG5
"Auth Personnel Only", 24"	6DMG4
"Restricted Areaa", 24"	6DMG8
"Rest Rooms Being Cleaned", 24"	6DMH1
"Rest Rooms Closed", 24"	6DMG9
"Wet Paint", 24"	6DMH0

Description	Item No.
Safety Cones	
"Caution", English, French, Spanish, 26"	6VKR4
"Caution", English, French, Spanish, 36"	2LEC5
"Caution Safety First", English, Spanish, 36", Yellow	2LEC7
"Caution Safety First", English, Spanish, 36", Orange	6VKP6
"Caution Safety First", English, Spanish, 26"	6VKR6
"Caution Wet Floor", English, 26"	6VKR5
"Caution-Wet Floor", English, Spanish, 36"	2LEC6
Barricade Cone System and Accessories	
Barricade Cone System	2LEC8
5-Cone Kit, 26" Multilingual "Caution Safety First"	6VKT0
5⅝" Flashing Light	2LEC9
Sign Holder	2LED2
12⅝" Weight Ring	2LED3
Lock-In Sign Message Board	6VKT2
Message Labels, Pkg. of 4	6GJA1
240" Plastic Barrier Chain	2LEB3
Door and Hallway Barricades	
Pole Barricade, Bilingual "Closed for Cleaning"	2LEB6
Pole Barricade, Bilingual "Closed for Maintenance"	6GJA0
LED Lighted Sign Barricade, Closed Symbol	2LEB7
Expandable Mobile Safety Barricade System	
13-ft. L x 23"W x 40"H Mobile Safety Barrier	2LEB5



Station Kit 25-Pad Tablet Mounted on a Floor Sign (Sold Separately) Over-The-Spill System No. 3NB40

Over-the-Spill™ System

Rubbermaid Commercial Products

Designed for quick spill containment, identification, and absorption. No. 3NB37 Station Kit features an all-plastic, refillable dispenser that attaches to flat surfaces. Includes 25 large pads.

No. 3NB40 Pad Tablet mounts onto Rubbermaid floor signs or any flat surface and holds medium-size tear-off pads.

Description	Item No.
Station Kit	3NB37
25 Large Pads (absorb 16 oz. per pad)	3NB38
25 Medium Pads (absorb 12 oz. per pad)	3NB39
25-Pad Tablet (absorb 12 oz. per pad)	3NB40

Plastic Floor Safety Signs

SEE ALL®

- 12"W x 20"H

Waterproof double-sided signs alert workers and visitors of hazards in hallways, aisles, and other walkways. "A" shape signs fold flat when not in use. 29 CFR 1910.145 Compliant.

REVERSIBLE

Fold sign inside out and lock bottom tabs together to display message that is on the reverse side.

BLANK SIGNS AND DIE CUT SHEET

Create custom message with blank signs and die cut sheet of letters and numbers. Die Cut Sheet No. 3YTV5 includes 3 of each A, E, I, O; 2 each of L, N, R, S, T, U; 1 each of the remaining alphabet and numbers 1 to 9; and basic punctuation characters.

Legend	Color	Item No.
Floor Safety Signs		
Authorized Personnel Only Beyond This Point	White and Black	3YTJ6
(Blank)	Yellow	3YTH9
Caution Forklift Traffic		3YTH6
Caution Maintenance Work In Progress		3YTJ9
Caution Men Working		3YRZ9
Caution Spill Cleanup In Progress Stay Clear		3YTF3
Caution Watch Your Step		3YTA3
Caution Wet Floor		3YRZ6
(Blank)	White and Black	3YTJ3
Danger Chemical Spill Keep Away		3YTD6
Confined Space Permit Required For Entry		3YTD9
Danger Do Not Enter		3YTC9
Hazardous Area		3YTD3
Danger No Pedestrian Traffic		3YTE6
Danger Overhead Hazard		3YTE3
Danger Spill Cleanup In Progress Stay Clear		3YTE9
Rest Rooms Being Cleaned	Yellow/Black	3YTA6



Caution Wet Floor No. 3YRZ6



Reversible Caution Wet Floor and Watch Your Step No. 3YTG6

Legend	Color	Item No.
Reversible Floor Safety Signs		
Caution Forklift Traffic, Caution No Pedestrians Forklift Area	Yellow	3YTK9
Caution Men Working, Caution Construction Area		3YTK6
Caution Wet Floor, Caution Watch Your Step		3YTG6
Caution Wet Floor		3YTK3
Wet Paint, Caution Maintenance Work In Progress		3YTL3
Blank Floor Safety Signs and Letters		
Blank	Yellow	3YTU6
Blank	White	3YTV1
Assorted	Black	3YTV5



No. 2W318



No. 2MPE1

Galvanized Steel Mop Buckets

Zinc coating prevents leaks and corrosion. Hot-dipped galvanized after bucket is formed.

Oval Steel Bucket, No. 2W318

24-ga., with mechanically locked, hand-soldered seams. Reinforced top ring, riveted bail ears, and embossed graduations. Use with No. 2W316 side-squeeze top wringer (see listing this page).

Mop Bucket/Wringer, No. 2MPE1

Wire-reinforced rim adds durability and recessed bottom allows easy handling. Includes wooden rollers and foot pedal for easy operation.

Description	Cap.	H	Item No.
Galvanized Steel Buckets			
Round	1¼ gal.	7"	2MPE4
Round	2 gal.	9"	2MPE5
Round	2½ gal.	9¼"	2MPE6
Round	3 gal.	10¼"	2MPE7
Round	3½ gal.	11"	2MPE8
Round	8 gal.	17¼"	2W317
Oval	6½ gal.	10½"	2W318
Galvanized Steel Mop Bucket/Wringer			
Round	3 gal.	11"	2MPE1



No. 3ANT5

Galvanized Steel Tubs

Tubs are hot-dipped galvanized steel or galvanized sheet steel. Equipped with side drop handles. No. 3ANR9 is not watertight; for dry measure only.

Shape	Cap.	Item No.
Hot-Dipped Galvanized Steel		
Oval	2 gal.	3ANT6
Oval	4 gal.	3ANT5
Oval	5½ gal.	3ANT4
Oval	7½ gal.	3HNF5
Round	9 gal.	3HNF8
Oval	10½ gal.	3HNF6
Oval	16 gal.	3ANT7
Round	35 gal.	3HNF7
Galvanized Steel		
Round	11 gal.	3ANT1
Round	15 gal.	3ANT2
Round	17 gal.	3ANT3
Round	$9^{21}/_{64}$ gal.	3ANR9



No. 450Y47



No. 450Y42 Shown with Mop Handle No. 450Y44

Spill Mop Kits

Be prepared for spills and provide quick cleanup with these spill mop kits. All spill mop pads are compatible with Extendable Spill Mop Handle No. 450Y44.

Nos. 450Y46 and 450Y47—Spill mop kits come with a wall mountable spill mop storage cabinet and telescoping spill mop handle. No. 450Y46 includes 10 spill mop pads, No. 450Y47 includes 10 biohazard spill mop pads.

Nos. 450Y42 and 450Y43—Spill mop pads provide quick spill cleanup where the absorbed liquid turns to a gel and is trapped in the pad to help prevent leaks and drips. No. 450Y42 can hold up to 32 oz. of water per pad, and No. 450Y43 can hold up to 32 oz. of water and 13½ oz. of NaCl 0.9% per pad.

No. 450Y44—Spill mop handle features a collapsible telescoping handle and it can fit in most spaces for quick spill cleanup.

No. 450Y45—Storage cabinet helps you keep spill control items organized and easily accessible. Compact unit can hold a Spill Mop Handle No. 450Y44, and up to 2 packs of Spill Mop Pads No. 450Y44, or Biohazard Spill Mop Pads No. 450Y43, all sold separately. Cabinet includes mounting hardware to help speed installation.

Description	Item No.	Pkg. Qty.
Spill Mop Kit	450Y46	1
Biohazard Spill Mop Kit	450Y47	1
Spill Mop Pads	450Y42	10
Biohazard Spill Mop Pads	450Y43	10
Extendable Spill Mop Handle	450Y44	1
Spill Mop Storage Cabinet	450Y45	1



No. 1ELK3



No. 5M792

Plastic Mop Buckets

These 1-pc. buckets feature pour spouts and molded-in graduations for more accurate measuring. Rust-resistant handles with plastic sleeves. Rubbermaid® buckets are HDPE construction.

Description	Cap.	Dia.	H	Brand	GRAY Item No.	RED Item No.
Round	2½ gal.	10"	10¼"	Tough Guy	1ELJ8	1ELJ9
Round	2½ gal.	10½"	10¼"	Rubbermaid Commercial Products	4W246	5M792
Round	3½ gal.	9½"	11¼"	Tough Guy	1ELK1	—
Round	3½ gal.	11½"	11¼"	Tough Guy	—	1ELK2
Round	3½ gal.	12"	11¼"	Rubbermaid Commercial Products	3U660	3U661
Double Compartment	4¼ gal.	—	10⅛"	Tough Guy	1ELK3	—
Double Compartment with Plastic	4¼ gal.	—	10⅛"	Rubbermaid Commercial Products	3U662	—
Double Compartment	4¾ gal.	—	11"	Tough Guy	1ELK4	—



Color-Coded Plastic Pail Set

Reduce the possibility of cross contamination by differentiating areas of use. Polypropylene pails are sold as a set in 4 colors: blue, green, red, and yellow. Use with Rubbermaid® Janitor Carts.

Cap.	H	Item No.
1¼ gal.	8½"	1UFF6



No. 3U497

No. 2W316

Mop Wringers

STAINLESS STEEL DOWNWARD PRESSURE

Resist rust, abrasion, discoloration, and staining under normal use. Stainless steel parts except for pressure bars and springs.

ZINC-PLATED STEEL

Downward Pressure

All-metal, welded and riveted zinc-electroplated construction.

Side-Squeeze

Linkage system and ⅝" solid steel shaft put more force on mop head. Heavy-gauge zinc-electroplated steel to resist corrosion. Large drain openings.

Description	8 to 16 oz. Item No.	16 to 24 oz. Item No.	24 to 36 oz. Item No.	20 to 40 oz. Item No.
Stainless Steel				
Downward Pressure	3U487	3U497	—	—
Downward Pressure (Flat Band)	4KP64	4KP65	—	—
Zinc-Plated Steel				
Downward Pressure	3U486	2W315	3U485	—
Side-Squeeze	—	—	—	2W316



Combo with Down Pressure Wringer
Yellow
No. D8085



Mop Bucket without Wringer
Red
No. D8083



Mop Bucket without Wringer, includes Splash Control™
No. 5KDE8

Mop Bucket/Wringer Combos

Bucket/Wringer Combos and Mop Buckets—35-qt. bucket comes equipped with casters and a powder-coated metal handle. Nos. D8083 and 5KDE8 are mop buckets without wringers. No. 5KDE8 features Splash Control™ to avert liquid splashes and optional drain/hose assembly for controlled emptying.

Mop Wringers™—Wringers include PVC handle cover and powder-coated metal handle.

Description	Cap.	▶CHOOSE: Color	Item No.
Mop Bucket/Wringer Combos			
Combo with Side Pressure Wringer	8¾ gal.	Blue, Brown, Green, Orange, Red, Yellow	D8082
Combo with Down Pressure Wringer	8¾ gal.	Blue, Brown, Green, Orange, Red, Yellow	D8085
Mop Buckets			
Mop Bucket without Wringer, use with Nos. D8081 or D8084	8¾ gal.	Blue, Brown, Green, Orange, Red, Yellow	D8083
Mop Bucket without Wringer, includes Splash Control™	8¾ gal.	Yellow	5KDE8
Mop Wringers			
Side Pressure Wringer for No. D8083	35 qt.	Blue, Brown, Green, Orange, Red, Yellow	D8081
Down Pressure Wringer for No. D8083	35 qt.	Blue, Green, Orange, Red, Yellow	D8084

Rubbermaid Commercial Products

Institutional Mop Bucket Combo

Designed for use in correctional and institutional applications—virtually all-plastic, metal-free design reduces the ability for making weapons. Features quiet-rolling 3" nonmarking casters.

Note: If used in a metal-sensitive environment, removal of metal bail handle from Rubbermaid bucket is recommended prior to usage.



Wringer Type	Cap.	Color	Mfr. Model	Item No.
Funnel	8¾ gal.	Yellow	FG759088YEL	5NY94

Tandem 1-Piece Bucket/Wringer Combo
No. 2FTP8



Color coded combo No. E4108 helps keep different types of cleaner separated

Mop Bucket/Wringer Combos

Rubbermaid Commercial Products

TANDEM™

All-in-one compact design with integrated bucket and wringer provides effective wringing and no lost parts. 31-qt. bucket has a down pressure wringer and accepts up to 24-oz. mops.

NEW GENERATION WAVEBRAKE® BUCKET/WRINGER COMBOS

Patented mop bucket system helps prevent workplace hazards associated with spills and splashes. Color-coding on Bucket/Wringer Combos helps reduce cross-contamination. Organize by function, department, or building area. WaveBrake baffles reduce splashing while mopping and maneuvering for a safer environment. Molded-in pour spout and sink ledge help direct water while emptying the mop bucket. Improved wringer design works with more mop sizes, extra small to extra large (12- to 32-oz.). Built-in steel handle provides a secure grip to lift and carry the bucket. Red handle at back of mop bucket helps lift, carry, and empty the bucket. Structural web-molded plastic construction. No. 493G96 includes a foot-operated drain in front of bucket to empty into floor drains.

NEW GENERATION WAVEBRAKE BUILD YOUR OWN BUCKET COMPONENTS

Individual components and colors are available to build a cleaning system that meets your specific needs. No. 493H16 includes a foot-operated drain for draining into floor drains.The Dirty Water Bucket nests below wringer to keep dirty water separate and help reduce risk of cross-contamination.

Note: New Generation WaveBrake wringers, replacement buckets, and dirty water buckets will not fit on pre-September 2018 mop buckets.

Description	Cap.	▶CHOOSE: Color	Item No.
Tandem Combo			
1-Piece Bucket/Wringer	7.75 gal.	Yellow	2FTP8
New Generation WaveBrake® Bucket/Wringer Combos			
With Side Pressure Wringer	6½ gal.	Yellow	493H19
With Side Pressure Wringer	8¾ gal.	Black, Brown, Red, Green, Blue	E4108
WaveBrake® Bucket/Wringer Combos			
With Side Pressure Wringer	8¾ gal.	Yellow	E4108
New Generation WaveBrake® Bucket/Wringer Combos			
With Side Pressure Wringer and Drain	8¾ gal.	Yellow	493G96
With Side Pressure Wringer	11 gal.	Yellow	2FTK7
With Down Pressure Wringer	8¾ gal.	Blue, Brown, Red, Yellow	E4107
With Down Pressure Wringer	11 gal.	Yellow	2FTK8
New Generation WaveBrake® Build Your Own Bucket Components			
Mop Bucket	8¾ gal.	Yellow	493H10
Mop Bucket with Drain	8¾ gal.	Yellow	493H16
Dirty Water Bucket	4½ gal.	Red	493H18
Side Pressure Wringer	—	Black, Blue, Brown, Green, Red, Yellow	K2010
Down Pressure Wringer	—	Black, Blue, Brown, Green, Red, Yellow	K2011



No. 1TYK8



No. 1TYX5

Looped-End Wet Mops

- Stitched tailband
- Multiple colors help avoid cross contamination
- Size is dry weight
- Wet mop handles sold separately on page 1532
- Launderable unless otherwise noted

Cotton/Rayon/Synthetic Blend—Durable mops are 4-ply with open-end spun yarn. Resist unravelling, fraying, and linting. Tailband prevents tangling and improves floor coverage.

Cotton—4-ply mop is more absorbent than other cotton/synthetic blends.

Cotton/Synthetic Blend—Mops are highly absorbent. Looped-end design increases floor coverage and reduces streaks.

Antimicrobial—Mop heads feature 4-ply antimicrobial yarn treated with a silver-based agent.

Rayon/Polyester—6-ply mop contains minimum 50% post-consumer recycled content.

Size	Ply		WHITE Item No.	BLUE Item No.	GREEN Item No.	ORANGE Item No.	RED Item No.
Cotton/Rayon/Synthetic Blend							
5" Headband							
Small - 12 oz.	4		1TYK8	1TYK9	1TYL1	1TYL2	—
Medium - 16 oz.	4		1TYL3	1TYL4	1TYL5	1TYL6	—
Large - 22 oz.	4		1TYL7	1TYL8	1TYL9	1TYN1	—
Extra Large - 26 oz.	4		1TYN2	1TYN3	1TYN4	1TYN5	—
Cotton Looped End							
5" Headband							
Small - 12 oz.	4	*	1TYP9	—	—	—	—
Medium - 16 oz.	4	*	1TYR1	—	—	—	—
Large - 22 oz.	4	*	1TYR2	—	—	—	—
Cotton/Synthetic Blend							
5" Headband							
Small - 16 oz.	4	*	1TYN6	1TYN7	1TYN8	—	1TYN9
Medium - 22 oz.	4	*	1TYP1	1TYP2	1TYP3	—	1TYP4
Large - 28 oz.	4	*	1TYP5	1TYP6	1TYP7	—	1TYP8
Antimicrobial Cotton							
1" Headband							
Small - 12 oz.	4		1TYT2	1TYT3	1TYT4	1TYT5	—
Medium - 16 oz.	4		1TYT6	1TYT7	1TYT8	1TYT9	—
Large - 22 oz.	4		1TYU1	1TYU2	1TYU3	1TYU4	—

Size	Ply	WHITE Item No.	BLUE Item No.	GREEN Item No.	ORANGE Item No.	RED Item No.
5" Headband						
Small - 12 oz.	4	1TYV8	1TYU8	1TYU7	1TYU6	—
Medium - 12 oz.	4	—	—	1TYU5	—	—
Medium - 16 oz.	4	1TYV9	1TYV1	1TYV2	1TYV3	—
Large - 22 oz.	4	1TYV4	1TYV5	1TYV6	1TYV7	—
Extra Large - 26 oz.	4	1TYX2	—	—	—	—
Antimicrobial Rayon						
Small - 12 oz.	4	—	1TYX3	1TYX4	—	1TYX5
Medium - 16 oz.	4	—	1TYX6	1TYX7	—	1TYX8
Large - 22 oz.	4	—	1TYX9	1TYY1	—	1TYY2
Rayon/Polyester						
1" Headband						
Small - 6 oz.	1	22VA20	—	—	—	—
Small - 8 oz.	1	22VA21	—	—	—	—
Small - 12 oz.	1	22VA22	—	—	—	—
5" Headband						
Medium - 16 oz.	4	—	—	19N831	—	—
Medium - 22 oz.	4	—	—	19N832	—	—
9" Headband						
Large - 24 oz.	6	—	—	22VA28	—	—
Extra Large - 30 oz.	6	—	—	22VA30	—	—

** Nonlaunderable.*



No. 3U671



No. 15F241

Looped-End Wet Mops

- Stitched tailband
- Multiple colors help avoid cross contamination
- Size is dry weight
- Wet mop handles sold separately on page 1532
- Launderable unless otherwise noted

Web Foot® Shrinkless Antimicrobial—Premium mops feature 4-ply material with cotton's absorbency, rayon's quick pick-up and water release, and the strength of a synthetic blend. Prelaundered and preshrunk. Contain up to 80% recycled content. Up to 75 launderings.

Web Foot® Blend Antimicrobial—Cotton/synthetic blend absorbs up to 5 times as much fluid as cotton mops. Open-twist yarn reduces linting and prolongs mop lifespan. Contains up to 80% recycled content. Up to 75 launderings.

Swinger Loop®—High-grade, 4-ply blend of cotton, rayon, and synthetic fibers. Contain up to 100% recycled content. Up to 50 launderings.

Super Stitch®—Balanced cotton/synthetic yarn blend. Plastic mesh headband. Limited launderability. Contain up to 100% recycled content.

Maximizer™—Absorbs up to 3 times as much fluids than standard cotton mops. Up to 50 launderings.

Dura Pro—Balanced 4-ply cotton/rayon/synthetic yarn blend increases absorbency and has fast-drying strands, reducing growth of harmful bacteria. Bolt-on mop head keeps mop secure. Coarse strings are banded at handle connection with loose hanging ends. Includes 1 mop head.

Size	Ply		WHITE Item No.	BLUE Item No.	GREEN Item No.	ORANGE Item No.
Web Foot® Shrinkless Antimicrobial						
5" Headband						
Small - 18 oz.	4		3U670	3U672	3U671	3U673
Medium - 20 oz.	4		3U674	3U676	—	—
Medium - 22 oz.	4		—	—	3U675	3U677
Large - 26 oz.	4		3U678	—	—	—
Large - 28 oz.	4		—	3U680	3U679	3U681
Web Foot® Blend Antimicrobial						
1" Headband						
Small - 16 oz.	4		5M913	5M910	—	—
Medium - 16 oz.	4		5M918	5M915	5M916	5M917
Large - 20 oz.	4		5M923	—	—	—
Large - 28 oz.	4		—	5MU76	5M921	5M922
5" Headband						
Small - 16 oz.	4		5MU72	5M925	5M926	—
Medium - 16 oz.	4		5MU73	—	—	—
Medium - 22 oz.	4		—	—	5MU75	—
Large - 20 oz.	4		5MU74	—	—	—
Large - 28 oz.	4		—	—	—	5M937
Web Foot® Cotton Antimicrobial						
5" Headband						
Medium - 16 oz.	4		—	5M930	—	—
Medium - 22 oz.	4		—	—	—	5M932
Large - 28 oz.	4		—	5M935	5M936	—

Size	Ply		BLUE Item No.	GREEN Item No.	WHITE Item No.	RED Item No.
Swinger Loop®						
5" Headband						
Small - 16 oz.	4		5MU56	5MU57	—	—
Medium - 16 oz.	4		5MU58	—	5W647	—
Medium - 22 oz.	4		—	5MU59	—	—
Large - 20 oz.	4		—	—	5W648	—
Large - 28 oz.	4		5MU60	5MU61	—	—
Extra Large - 25 oz.	4		—	—	3U970	—
Extra Large - 34 oz.	4		5MU62	—	—	—
Super Stitch®						
5" Headband						
Small - 16 oz.	4	*	5MU64	5MU65	5MU70	—
Medium - 16 oz.	4	*	5MU66	5MU67	5MU71	—
Large - 18 oz.	4	*	5MU68	—	5M968	—
Large - 22 oz.	4	*	—	5MU69	—	—
Maximizer						
1" Headband						
Medium - 16 oz.	4		38UJ85	—	—	38UJ89
Large - 22 oz.	4		38UJ84	—	—	38UJ88
Dura Pro						
1" Headband						
Medium - 16 oz.	4	*	15F223	—	—	—
Medium - 18 oz.	4	*	15F229	—	15F232	—
Medium - 28 oz.	4	*	15F234	—	15F237	—
Medium - 34 oz.	4	*	15F241	—	—	—

** Nonlaunderable.*

4-Ply Cut-End Wet Mops

▪ Size is dry weight

A variety of mop handles are available separately on page 1532.

Headband Style—Polyester headband helps maintain shape and improve productivity.

Screw-On Style—Mops screw on and off for easy mop head changes. Allow easy cleaning under furniture and cabinets; cover more area per stroke.



Blue Cotton, Headband Style
No. 1TYR8

Size	L	Color	Item No.
Rayon/Cotton/Kevlar®/Nylon, 1" Headband Style			
22 oz.	18"	Green	19N830
Rayon/Cotton/Kevlar®/Nylon, 1¼" Headband Style			
16 oz.	29" to 30"	Brown	19N829
Cotton, 1" Headband Style			
12 oz.	15"	Blue	1TYR7
16 oz.	15"	Blue	1TYR3
16 oz.	17"	Blue	1TYR8
20 oz.	17"	Blue	1TYR4
20 oz.	19"	Blue	1TYR9
24 oz.	20"	Blue	1TYR5
24 oz.	21"	Blue	1TYT1
32 oz.	22"	Blue	1TYR6
12 oz.	16"	Natural	16W207
16 oz.	16"	Natural	16W219
16 oz.	18"	Natural	16W208
20 oz.	19½"	Natural	16W209
26 oz.	20½"	Natural	16W210
34 oz.	20½"	Natural	16W220
Cotton, 1¼" Headband Style			
20 oz.	18"	Natural	16W229
24 oz.	19½"	Natural	16W230
Rayon/Polyester, 1" Headband Style			
6 oz.	14"	White	22VA16
8 oz.	14"	White	22VA17
10 oz.	18"	White	22VA18
13 oz.	21"	White	22VA19
Cotton Screw-On Style			
16 oz.	16"	Natural	16W223
24 oz.	19½"	Natural	16W224
34 oz.	20½"	Natural	16W225

Finish Mops

Nylon—Nonlinting, continuous filament yarn leaves a glossy long-lasting finish. GlossPro™ Flat Finish mop applies finish to 30% more floor area.

Web Foot® Looped-End Rayon—4-ply, looped-end synthetic yarn is designed for a controlled release of floor finish. Tailband is sewn on the inside of mop to help reduce the "drag" patterns common to most finish mops.



No. 3U914

Size	Color	Item No.
Nylon, 1" Headband		
20 oz.	White	1RF59
26 oz.	White	1RF60
Web Foot® Looped-End Rayon, 1" Headband		
16 oz.	Blue	3U914
28 oz.	Blue	5W649

Deck and Jail Mops

▪ Size is dry weight

Economy Mops—Tough Guy® 4-ply economy cotton mops are ideal for small clean-up jobs. 18.5-ga., 3" plastic reinforced binding adds strength. Quickie® microfiber mops also feature wide, flat scrubbing strips to help remove dirt without scratching.

Jail Mops—Wire-free, 4-ply cotton yarn mops have a durable wood handle. Ideal for correctional facilities.



No. 16W215



No. 22VA23

Mop Head Material	Size	Color	Headband Size	Handle L	Brand	Item No.
Economy Deck Mops						
Cotton	12 oz.	Natural	16"	48"	Tough Guy	16W215
Cotton	16 oz.	Natural	20"	48"	Tough Guy	16W216
Cotton	20 oz.	Natural	24"	60"	Tough Guy	16W217
Cotton	26 oz.	Natural	32"	60"	Tough Guy	16W218
Microfiber	4 oz.	Blue/White	20"	No Handle	Quickie	53UJ51
Microfiber	22 oz.	Blue/White	20"	59"	Quickie	53UJ52
Jail Mops						
Cotton	16 oz.	Natural	—	48"	Tough Guy	22VA23
Cotton	24 oz.	Natural	—	54"	Tough Guy	22VA24

Finish Mops

▪ Size is dry weight

Looped-End Nylon—Even application without excessive linting or fraying. Higher liquid release offers more coverage and less chemical waste.

Looped-End Rayon—Economical alternative to nylon. Releases liquid evenly for a smooth, clean finish.

Cut-End Polyester—Economical 4-ply mops have excellent absorbency and release characteristics; ideal for applying floor finishes and disinfectants.

Cut-End Polyester, Screw-On Style—Provide easy mop head changes and have excellent liquid release properties; ideal for economical floor finishing, disinfecting, and general-purpose cleaning. Noncorrosive screw and header allows mops to lay flat for easy cleaning under furniture and cabinets. Use handle No. 1TZA6, sold separately on page 1532.



No. 1TYY4

Size	L	Color	Item No.
Looped-End Nylon, 1¼" Headband Style			
22 oz.	15"	White	1TYY4
28 oz.	17"	White	1TYY5
Looped-End Rayon, 1¼" Headband Style			
16 oz.	20"	Blue	1TYY6
22 oz.	23"	Blue	1TYY7
Cut-End Polyester, 1¼" Headband Style			
28 oz.	19½"	Beige	16W231
Cut-End Polyester, 1" Headband Style			
16 oz.	16"	Beige	16W221
12 oz.	16"	Beige	16W211
16 oz.	18"	Beige	16W212
20 oz.	19½"	Beige	16W213
26 oz.	20½"	Beige	16W214
34 oz.	20½"	Beige	16W222
Cut-End Polyester, Screw-On Style			
16 oz.	16"	Beige	16W226
24 oz.	19½"	Beige	16W227
34 oz.	20½"	Beige	16W228

Specialty Mops

▪ Size is dry weight

Small: 8 to 16 oz., Medium: 16 to 22 oz., Large: 22 to 28 oz., X-Large: 28 to 34 oz.



No. 1NNW3

Echo—Composed of 30% post-consumer recycled materials. Absorb almost 4.4 times their weight in water and release almost 30% upon wringing.

Cleanroom—Nonlinting, nonfraying mops are designed for use in Class 10,000 and higher industrial applications. Woven rayon/polyester blend.

Rough Floor—Abrasive-resistant to clean slip-resistant tile, concrete, and raised, textured, or stone floors without fraying. Knitted cotton and polyester fleece.

Wet mop handles sold separately on page 1532.

Color	Brand	SMALL Item No.	MEDIUM Item No.	LARGE Item No.	EXTRA LARGE Item No.
Echo Mop, 1¼" Headband					
Green	Tough Guy	1NNW7	1NNW8	1NNW9	1NNX1
Echo Mop, 5" Headband					
Green	Tough Guy	1NNW3	1NNW4	1NNW5	1NNW6
Cleanroom Mops, 5" Headband					
White	Rubbermaid Commercial Products	—	1RF61	1RF62	—
Rough Floor Mops, 5" Headband					
White	Rubbermaid Commercial Products	—	1RG34	1RG35	—

Sponge Mops

ROLLER MOPS

Pull lever on mop handle operates rollers to squeeze liquids from cellulose head.

BUTTERFLY MOPS

Automatic squeezing makes these mops easy to wring and simple to use. Absorbent cellulose sponge features a built-in front scrubber for removing scuff marks and stubborn stains.



No. 53UJ50



No. 1TTY9



No. 53UJ48



No. 53UJ54

Description	L	Brand	Item No.
Roller Mops			
Wet Mop Kit	12"	Tough Guy	1TTY9
Mop Head for No. 1TTY9	12"	Tough Guy	1TTZ1
Mop & Scrub with Microban®	3½"	Quickie	53UJ53
Mop & Scrub Refill with Microban®	3"	Quickie	53UJ50
Mop & Scrub with Scrub Brush with Microban®	5½"	Quickie	53UJ54
Butterfly Mops			
Microfiber Sponge Mop	3⅛"	Quickie	53UJ58
Microfiber Sponge Mop Refill	2⅜"	Quickie	53UJ48
Sponge Mop Refill with Microban®	1½"	Quickie	53UJ47



Blue
No. J5815

Rubbermaid Commercial Products

Microfiber String Mop Heads

Combination of monofilament microfiber and unique Maximizer™ blend provides a highly absorbent mop for improved cleaning performance. Highly durable mop can withstand up to 100 commercial laundry cycles.

Dry Weight	Headband Size	▶CHOOSE: Color	Mop Connection Type	Item No.
16 oz.	1"	Blue, Green, Red	Side Gate	J5814
22 oz.	1"	Blue, Green, Red	Side Gate	J5815



No. 2U652



No. 9CND4

Rubbermaid Commercial Products

Flat Finish Mopping Head

Tightly twisted, rayon/synthetic blend looped-end mop absorbs and releases finish smoothly and evenly. Lint-free.

Description	L	W	Color	Mfr. Model	Item No.
Flat Finish Mopping Head	18"	5"	Blue	FGE05200WH00	2U652
Dust Mop Frame	18"	5"	Black	FGM252000000	9CND4



No. 2U644



No. 3U454

Rubbermaid Commercial Products

UNGER Quality Tools for Smart Cleaning

Cleaning Kits

WALL WASHING KITS

Kit with 60" Handle—Pivoting head allows washer to move evenly over surfaces and clean at difficult angles. Raised rib design works with side or downward pressure mop wringers. Includes aluminum handle, plastic head, and 2 cotton pads.

ALL-PURPOSE CLEANING KIT

Contains components for cleaning floors, walls, windows, and ceilings. Includes: 8-ft. telescopic pole, safety scraper with blade, glass scraper, 14" strip washer, 10", 14", and 18" "S" channel with soft rubber blades and squeegee handle, Fixi-Clamp, brush, large sponge, and 36" replacement rubber. Includes vinyl/nylon case for transport.

Description	Brand	Mfr. Model	Item No.
Wall Washing Kit w/60" Handle	Rubbermaid Commercial Products	FGS22600GY00	2U644
Replacement Head for No. 2U644	Rubbermaid Commercial Products	FGS29900WH00	2U645
All-Purpose Cleaning Kit	Unger	TRS00	3U454



Side Gate
Gray Handle
No. F8885



Clamp
Gray Handle
No. J5813



Blue
Green
Red

Rubbermaid Commercial Products

Color-Coded Mop Handles

Color-coded handles help reduce cross-contamination and identify which cleaning solution products should be used in designated areas. Side Gate allows mop to easily slide On/Off handle. Thumb wheel clamps hold mop firmly in place. Clamp holds mop firmly between the jaws of mop handle.

Mop Connection Type	Handle L	For Use With	▶CHOOSE: Handle Color	Item No.
Side Gate	60"	1 and 5" Headband Mops	Blue, Gray, Green, Red	F8885
Clamp	60"	5" Headband Mops		J5813



Side Gate Style
No. 1TYZ9



Janitor Wing Nut Style
No. 1TZA7



Quick-Change Style
No. 1TZB1

TOUGH GUY

Wet Mop Handles

Handle L	Dia.	Handle Material	▶CHOOSE: Handle Color	Item No.	
Side Gate Connection					
54"	1⅛"	Wood	Natural	1TYY8	
54"	1⅛"	Wood	Gray	1TYZ7	
60"	1⅛"	Wood	Natural	1TYY9	
60"	1⅛"	Wood	Blue	1TYZ8	
54"	15/16"	Aluminum	Gray	1TYZ9	
60"	15/16"	Aluminum	Gray	1TZA1	
Jaw Connection					
54"	15/16"	Aluminum	Gray	1TYZ1	
60"	15/16"	Fiberglass	Blue, Gray, Green, Red	F8738	
60"	15/16"	Aluminum	Gray	1TYZ2	
60"	15/16"	Fiberglass	Blue, Gray, Green, Red	F8739	
60"	1"	Fiberglass	Yellow	1NFF4	*
T Bar Head Connection					
63"	1"	Fiberglass	Yellow	1NFF3	*
Screw On Connection					
60"	1⅛"	Wood	Natural	1TZA6	
Stirrup Connection					
61"	15/16"	Bamboo	Natural	4EMG1	
Janitor Wing Nut Connection					
60"	1"	Fiberglass	Orange	1TZA8	
60"	1"	Wood	Natural	1TZA9	
60"	1⅛"	Wood	Natural	1TZA7	
Quick-Change Connection					
60"	1⅛"	Wood	Natural	1TZB1	
61"	15/16"	Bamboo	Natural	4EMF9	
62"	—	Fiberglass	Yellow	30LU86	
62"	—	Aluminum	Yellow	30LU87	
Clamp Connection					
62"	—	Wood	Natural	30LU88	

** Handle has no metal parts, safe for correctional envrionments.*

3M Easy Scrub Mopping Systems



No. 30XJ20

EASY SCRUB FLAT MOP SYSTEM

- Mop handle holds 15 oz. of solution
- 54" standard handle

Push-button and squeeze bottle systems provide liquid on-demand. Common applications include patient rooms, classrooms, stairwells, restrooms, and spot mopping.

Buddy Jug—2½ gal. dispensing container. Safe with general disinfectant cleaners with pH from 7 to 10.

EASY SCRUB EXPRESS FLAT MOP SYSTEM

- 38" to 59½" aluminum handle

Quickly and easily change out chemicals. Swivel head.

Express Mop Tool and Starter Kit—No. 1EKB2 includes an aluminum telescopic handle/pole and 16" mop pad holder. Simple press of a button dispenses cleaning solution. No. 30XJ20 includes flat mop tool, 12 (11 oz.) bottles, caddy, two 18" flat microfiber mops, ½ gal. pour jug, three blank sheets, and label CD.

Express Bottles—Squeezable bottles hold 11½ oz. of cleaning solution and fit in mop handle.

Express Bottle Caddy—Portable, holds up to twelve 11½ oz. Express bottles (No. 1EKB4).

MICROFIBER FLAT MOPS

Clean and remove stuck on dirt and debris. Polypropylene scrub stripes are intertwined with absorbent microfibers. Washable. Color-coded borders help reduce cross-contamination. Red for restroom floors. Blue for operating and emergency rooms. Green for kitchen floors. White for general floors and dining floors in facilities, or patient rooms and public areas in healthcare facilities. Use No. 1CPH4 for textured surfaces such as ceramic tile, quarry tile, natural stone, etc.

Description	L	W	Item No.
Easy Scrub Flat Mop System			
Mop Kit	16"	3¾"	**6XU14**
Buddy Jug	7½"	9½"	**6YE88**
Easy Scrub Express Flat Mop System			
Express Mop Tool with Pad Holder	16"	3¾"	**1EKB2**
Express Mop Starter Kit	18"	18"	**30XJ20**
Express Bottles, Pkg. of 12	9⅞"	2"	**1EKB4**
Express Bottle Caddy	6⅝"	6"	**1EKB3**
Microfiber Flat Mops for Easy Scrub and Easy Scrub Express, Pkg. of 10			
White with Green Scrubbing Stripes	12"	5½"	**1CPH1**
White (Shaggy)	18"	5½"	**1CPH4**
White with Green Scrubbing Stripes	18"	5½"	**6XU15**
White with Green Scrubbing Stripes and Green Trim	18"	5½"	**1CPH8**
White with Green Scrubbing Stripes and Red Trim	18"	5½"	**1CPH7**
White with Green Scrubbing Stripes and Blue Trim	18"	5½"	**1CPH9**
White with Green Scrubbing Stripes	24"	5½"	**1CPH2**

3M Easy Shine Floor Finish Applicator System



No. 6XU16

Floor Finish Applicator Kit—Includes 60" aluminum applicator handle, applicator pad holder, backpack, two 18" applicator pads, chemical supply tubing and pouch connector, 5 dispenser tubes, and a reusable extended storage cleaning bag.

Chemical Fill Station—Gravity-feed funnel system mounts to multiple surfaces. Includes five 1-gal. reusable pouches and 10 blank labels.

Description	L	W	Mfr. Model	Item No.	Pkg. Qty.
Floor Finish Applicator Kit	18"	—	55433	**6XU16**	1
Applicator Pad	18"	5¾"	55434	**6XU17**	10
Applicator Pad	24"	5¾"	55435	**6XU18**	10
17 inL Pad Holder	17 in	—	55442	**6XU25**	1
Reusable Pouches, Plastic, 1 gal.	—	—	55440	**6XU20**	5
Chemical Fill Station	—	—	59175	**3GZW8**	1

PULSE™ Floor Cleaning Systems

PULSE™—56" handle accepts 11", 18", and 24" frames and mops. Large, ergonomic trigger releases solution in 3 streams to edges of the frame. For cleaning chemicals only; not for floor finishes or bleach. Includes 2 cleaning pads, see page 1534 for replacements.

Refill Caddy No. 2FTR9 attaches to the cleaning system, allows for cleaning an additional 10,000 sq. ft.

PULSE™ with Double-Sided Frame—Productive floor cleaning system combines dusting and wet mopping with one convenient tool. Include 2 microfiber pads.



No. 2FTR8

No. 6TUL3

Description	Item No.
PULSE™	
19 oz Spray Mop Kit	**2FTR8**
2 gal. Refill Caddy	**2FTR9**
PULSE™ with Double-Sided Frame	
Spray Mop Kit	**6TUL3**
17½" General Purpose Microfiber Mop Pad	**6TUL4**
17½" Dust & Wet Microfiber Mop Pad	**6TUL5**

Scotchgard™ Hard Floor Protectors



No. 45CT68



No. 402F14

Ready-to-use floor protectors are certified by the National Floor Safety Institute as providing "high traction". 2 coats produce a clean, shiny floor that is less susceptible to scuffs, black marks, stains, and scratches. Can be maintained with standard speed, high speed, or ultra high speed equipment and pads.

Scotchgard™ Resilient Floor Protector No. 45CT68 is a high-performance product for linoleum vinyl tile and sheet vinyl floor that will last up to a year with minimal maintenance. Scotchgard™ Stone Protector No. 402F14 is suitable for concrete, marble, terrazzo, and other porous stone surfaces. Applicator Pad No. 6CTP9 works with both floor protectors.

Description	Item No.	Pkg. Qty.
Resilient Floor Protector, 1 gal. bag	**45CT68**	2
Stone Floor Protector, 1 gal. bag	**402F14**	2
Applicator Pad, 18"L x 4½"W	**6CTP9**	2



SPHERGO™ Micofiber Flat Mop Starter Kit

Spherical ball handle on the base tool allows the user to reduce musculoskeletal stresses common to manual cleaning with traditional wiping systems. Cleaning surface rotates around the ball handle to minimize wrist motions, bending, and straining. Kit includes a telescoping aluminum handle (extends up to 62") with socket, a 24" extended reach pole with socket, 2 surface cleaning tools (medium and large), 3 medium MicroWorks® flat pads, 3 medium MicroWorks® flat specialty pads, and 3 large MicroWorks® flat pads.

Frame Width	Frame Depth	Handle Length	Mop Connection Type	Mop Pad Size	Item No.
50"	5"	62"	Snap On	5" x 11", 5" x 16"	**421W97**



No. 3HKC7



No. 1UEX5



No. 3CCX1



No. 3CCX3

Microfiber Flat Mopping

Rubbermaid HYGEN™ Quick Connect Handles and Frames—Handles easily lock into frames for a quick frame exchange and extend to desired length. Nonmagnetic, lightweight aluminum construction is safe for use in MRI rooms.

HYGEN™ Microfiber Pads—All mop pads are launderable up to 500 times (200 with bleach), except No. 20KK67 is nonlaunderable. Feature zigzag scrubbing strips, 17% more microfiber, and color-coded trim to help eliminate cross contamination.

Step 1: Choose Your Handle

Description	L	Item No.
Handles		
Quick-Connect Short Extension Handle	20" to 40"	**43WX13**
Quick-Connect Ergonomic Adjustable Handle	42" to 72"	**5MY14**
Quick-Connect Extension Handle	48" to 96"	**3HKC7**
Quick-Connect Straight Extension Handle	48" to 72"	**48GP70**
Quick-Connect Handle	58"	**5MY13**
Quick-Connect Extension Handle	72" to 144"	**3HKC8**
Quick-Connect Extension Handle	72" to 216"	**3HKC9**
AMCE to Quick Connect Handle Adapter	1 3⁄32 in	**3HKC6**

Step 2: Choose Your Frame

Description	L	Item No.
Quick-Connect Frames		
Wall/Stair Frame	11"	**1UEX5**
Wet/Dry Frame	18"	**5MU87**
Hall Dusting Frame	36"	**5MU91**
Hall Dusting Frame	48"	**5MU93**
Hall Dusting Frame	60"	**3CCY9**
Squeegee Frame	24 in	**5MU89**

Step 3: Choose Your Pad

Description	L	Color	Item No.
HYGEN™ Microfiber Mop Pads			
Damp Mopping			
Wall/Stair Pad	11"	Blue	**3CCW7**
Room Pad	18"	Blue	**3CCW8**
Room Pad	18"	Green	**3CCW9**
Room Pad	18"	Red	**3CCX1**
Room Pad	24"	Blue	**3CCX4**
High-Absorbancy Fringe Pad	18"	Blue	**3CCX3**
Dust Mopping			
Room Pad	18"	Green	**3CCX9**
Room Pad with Fringe	18"	Green	**3CCY4**
Room Pad	24"	Green	**3CCY1**
Room Pad with Fringe	24"	Green	**3CCY5**
Room Pad	36"	Green	**3CCY2**
Room Pad with Fringe	36"	Green	**3CCY6**
Room Pad	48"	Green	**3CCY3**
Room Pad with Fringe	48"	Green	**3CCY7**
Room Pad with Fringe	60"	Green	**3CCY8**
Disposable (Wet or Dry)			
With Built-In Scrubbing Power	18"	White	**20KK67**



No. 6PVX3



No. 6PVT7



No. 1TTY6



No. 6DMY6

Microfiber Flat Mopping

Double-stitched with dense, durable microfibers to penetrate into surface pores. Color-coded pads for specific areas help prevent cross-contamination.

Dry Pads—Positively charged to attract dust.

Wet Pads—Hold up to 6 times its weight in water, making them more absorbent than traditional mops.

Disposable Pads—Perfect for individuals wanting to use microfiber, but not having laundry access. Work wet or dry.

Step 1: Choose Your Handle

Description	L	Item No.
Handle		
Aluminum Mop Handle	34" to 60"	**6PVX3**

Step 2: Choose Your Frame

L	Item No.
Aluminum Frames	
16"	**6PVU9**
22"	**6PVX0**
34"	**6PVX1**
46"	**6PVX2**

Step 3: Choose Your Pad

Size	Color	Style	Item No.	
Dry Microfiber Mop/Dust Pads				
18"	White	Hook and Loop	**1TTY2**	
18 x 5"	Green	Hook and Loop	**6PVT7**	*
18 x 5"	Green	Slot Pocket	**6PVT3**	*
24 x 5"	Green	Hook and Loop	**1TTY3**	
24 x 5"	Green	Hook and Loop	**6PVT8**	*
24 x 5"	Green	Slot Pocket	**6PVT4**	*
36 x 5"	Green	Hook and Loop	**1TTY4**	
36 x 5"	Green	Hook and Loop	**6PVT9**	*
36 x 5"	Green	Slot Pocket	**6PVT5**	*
48 x 5"	Green	Hook and Loop	**1TTY5**	
48 x 5"	Green	Hook and Loop	**6PVU0**	*
48 x 5"	Green	Slot Pocket	**6PVT6**	*
Dry Microfiber Mop/Dust Pad with Mop Pad				
18 x 5"	Orange	Hook and Loop	**6PVU1**	
Finish Pads				
18 x 5"	Blue / White	Hook And Loop	**6PVT1**	
24 x 5"	White	Hook And Loop	**6PVT2**	
Dry or Damp Flat Mop				
18"	Green	Hook And Loop	**6TMH0**	
Wet Microfiber Mop/Dust Pads				
18"	Blue	Hook and Loop	**1TTY6**	
18"	Blue/Red	Hook and Loop	**1TTY7**	
18"	Blue/Green	Hook and Loop	**1TTY8**	
Wet Microfiber Mop/Dust Pads, Spun Loop, Z-Loop				
18 x 5"	Gray/White	Hook and Loop	**6PVU4**	
Wet or Dry Disposable Microfiber Floor Pad				
18"	White	Hook and Loop	**6DMY6**	

With fringe.



No. 1NE71

Microfiber Dust Mops

Microfiber mops collect more dust, dirt, and moisture than traditional mops.

ECHO CUT-END

Use on hard-surface floors. 90% recycled content—30% postconsumer, 60% post-industrial. Heat-set yarns will not unravel as quickly as other yarns. Launderable and fast-drying.

LOOPED-END

Hold more than ordinary microfiber mops. Kits include 3 pads and an adapter for use with regular dust mop frames (sold separately, see page 1537).

Description	GREEN ECHO CUT-END Item No.	GREEN LOOPED-END Item No.	BLUE LOOPED-END Item No.
Dust Mops			
18" Mop	**3XGA6**	**6PVU5**	**1NE75**
24" Mop	**3XGA7**	**6PVU6**	**1NE76**
36" Mop	**3XGA8**	**6PVU7**	**1NE77**
48" Mop	**3XGA9**	**6PVU8**	**1NE78**
Dust Mop Kits			
18" Mop Kit	—	—	**1NE71**
24" Mop Kit	—	—	**1NE72**
36" Mop Kit	—	—	**1NE73**
48" Mop Kit	—	—	**1NE74**



No. 5NY74

Microfiber Mop Bucket Systems

Used with microfiber mops up to 18" long and fit onto Rubbermaid Janitorial Carts on page 1526. Microfiber mops available on page 1532.

PRESS-SIEVE WRINGER FINISH BUCKET

Press sieve removes solution from mops with little effort. Holds multiple microfiber mops. Stores unused floor finish with an airtight lid. Holds microfiber finish pads on this page.

TOP DOWN CHARGING BUCKET

Watertight, snap-on lid. Holds 15 to 20 microfiber wet pads.

TOP DOWN CHARGING BUCKET WITH SIEVE

Effectively and ergonomically moistens mops. Reduces cross-transmission when a finish mop is used for each room. Safe for MRI rooms.

Description	Cap.	Color	Mfr. Model	Item No.
Press-Sieve Finish	7 gal.	Blue	FGQ93000BLUE	**5NY74**
Press-Sieve Wringer	7 gal.	Yellow and Black	FGQ90088YEL	**5NY75**
Top Down Charging Bucket	7 gal.	Yellow	FGQ95088YEL	**5NY73**
Top Down Charging Bucket with Sieve	7 gal.	Yellow	1791802	**6XMG0**

Rubbermaid Commercial Products

Looped-End Microfiber Dust Mops

Provide superior cleaning and twice the durability of standard dust mops with laundry cycles at 160°F. 70% recycled content; 42% post-consumer, 28% post-industrial. Launderable. Green color.

Description	D	Item No.
18" Mop	5"	3HKE6
24" Mop	5"	3HKE7
36" Mop	5"	3HKE8
48" Mop	5"	3HKE9



No. 3HKE6

Rubbermaid Commercial Products HYGEN™

Flexi Frame Microfiber Cleaning System

HYGEN quick-connect mop frame conforms to the shape of the surface being cleaned. Arc shape pulls dirt and debris toward the center for better pickup. Choose one of the five different bleach-safe split microfiber covers. Launderable and MRI safe.



No. 3HKA6

No. 3HKA7

Description	Color	L	W	Item No.
Frame Handle				
11" Flexi Frame Handle	Black/Yellow	13⅛"	5⅜"	3HKA6
Microfiber Covers				
Dusting Cover	Green	8⅞"	5⅞"	3HKA7
Wet/Dry Cover	White	8⅞"	5½" to 6½"	3HKA8
Glass Cleaner Cover	Blue	8⅞"	5⅞"	3HKA9
Tub/Tile Scrubber Cover	Blue/White	8¼"	8¼"	3HKC1
Damp Mop Cover	Blue/White	8¼"	8¼"	3HKC2

Rubbermaid Commercial Products

Microfiber Floor Starter Kits

For light commercial cleaning. Wet/Dry Kit No. 2FTT6 includes 18" frame, 52" handle, 18" wet pad, and 18" dust pad. Purchase Nos. 2FTT7 and 2FTT8 replacement pads separately.

Description	Color	Mfr. Model	Item No.
Wet/Dry Microfiber Floor Kit	Black/Yellow	Q101-20	2FTT6
Replacement 18" Wet Pad	Blue	Q409-20	2FTT7
Replacement 18" Dry Pad	Green	Q408-20	2FTT8



No. 2FTT6

TOUGH GUY

Rubbermaid Commercial Products

Launderable Mop Nets

Protect mop heads during washing and drying. Draw cord with locking cinch keeps mop heads securely contained. Synthetic mesh material allows water and air to flow freely.

Description	Overall L	Overall W	Brand	Item No.
Mop Net	36"	24"	Tough Guy	1TTZ2
Laundry Cart Net	36"	24"	Rubbermaid	5N451



No. 1TTZ2

Rubbermaid Commercial Products TOUGH GUY

Microfiber Cloths

- Launderable and reusable

Small fibers trap dirt and moisture, cleaning surfaces without leaving a sticky residue or spreading dirt. Microfiber cloths are more absorbent than standard cotton cloths and don't require cleaners or chemicals. Use for general-purpose cleaning, tough jobs, and delicate surfaces. Leave no residual lint, streaks, or scratches. HYGEN™ medium-duty cloths, Nos. 3CCZ4 and 3CCZ3, withstand up to 500 launderings and up to 200 with bleach. Patented zig-zag scrubbers make cleanup quick and easy.

Cleaning Cloth Color	Size	GSM*	Brand	Item No.	Pkg. Qty.
Light Duty					
Red	12" x 12"	190	Rubbermaid	54TX84	24
Green	12" x 12"	190	Rubbermaid	54TX85	24
Blue	12" x 12"	190	Rubbermaid	54TX86	24
Yellow	12" x 12"	190	Rubbermaid	54TX87	24
Red	16" x 16"	190	Rubbermaid	54TX88	24
Green	16" x 16"	190	Rubbermaid	54TX89	24
Blue	16" x 16"	190	Rubbermaid	54TX90	24
Yellow	16" x 16"	190	Rubbermaid	54TX91	24
Red	16" x 19"	150	Rubbermaid	16J919	24
Blue	16" x 19"	150	Rubbermaid	16J920	24
Green	16" x 19"	150	Rubbermaid	16J922	24
Medium Duty					
Red	12" x 12"	200	Tough Guy	32UV02	12
Green	12" x 12"	200	Tough Guy	32UV03	12
Yellow	12" x 12"	200	Tough Guy	32UV04	12
Blue	12" x 12"	200	Tough Guy	32UV05	12
Orange	12" x 12"	200	Tough Guy	32UV06	12
White	12" x 12"	200	Tough Guy	32UV07	12
Pink	12" x 12"	200	Tough Guy	32UV08	12
White	16" x 16"	260	Tough Guy	32UV09	12
Blue	16" x 16"	260	Tough Guy	32UV10	12
Green	16" x 16"	260	Tough Guy	32UV11	12
Yellow	16" x 16"	260	Tough Guy	32UV12	12
Red	16" x 16"	260	Tough Guy	32UV13	12
Pink	16" x 16"	260	Tough Guy	32UV14	12
Blue	16" x 16"	280	Tough Guy	1TTX8	12
HYGEN™ Medium Duty					
Green	16" x 16"	290	Rubbermaid	3CCZ4	12
Yellow	16" x 16"	290	Rubbermaid	3CCZ3	12

** Grams per Square Meter.*



No. 54TX86



No. 32UV02



No. 3CCZ4



No. 2FTF8



No. 2FTF9

Rubbermaid Commercial Products

Linen Hamper and Bag

Integrated-lid hamper reduces noise and helps keep odor and bacteria from escaping. Step-on foot pedal enables hands-free operation. Plastic and aluminum hamper includes 2 swivel and 2 locking casters. 30-gal. hamper bag is washable, PVC-lined, and leak-resistant with a zippered front for easy emptying.

Description	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Linen Hamper	22¼"	20⅜"	37⅞"	FG630000BLA	2FTF8
Hamper Bag	19⅞"	13⅜"	29¼"	FG635000BLA	2FTF9


No. 36G240

TOUGH GUY

impact

SUPPLIER DIVERSITY

Mopster™ Bucketless Mopping System

Eliminates the need for conventional mop buckets and wringers and reduces water usage and labor costs. Complete system includes 18" hook-and-loop frame, 32 oz. dispensing bottle, and 54" handle. Components are all interchangeable and removable. Bottle includes a large, easy-to-fill tethered cap with an integrated hanger. Hanger makes it easy to store multiple bottles on a cart.

Description	Handle Length	Brand	Item No.
Bucketless Handle	59½"	Tough Guy	36G240
Replacement Bottle	14¼"	Impact	36G241


No. 6XU23

Easy Trap Duster Sweep and Dust Sheets

3M

Sheets can hold up to 8 times more dust, dirt, and sand than other systems. For floors and high dustings. Disposable cloth is perforated in 6" increments. Dust heads use holders with threaded handles (see page 1541).

Dimensions	Item No.	
Dust Cloth Sheets		
5" x 6" x 30 ft.	48GF56	
5" x 6" x 30 ft.	48GF54	*
8" x 6" x 30-ft.	48GF55	
8" x 6" x 125-ft.	48GF53	
Dust Cloth Sheet Holders		
17"L	6XE99	
23"L	3GZW9	
35"L	6XU11	
47"L	6XU23	
59"L	6XU24	

** Pkg. of 2.*


No. 1CJ55

Doodleduster Dusting System

3M

Dust Heads—3M™ Doodleduster features a flexible swivel and low-profile dust head. Clips make cloth attachment and removal easy. Use threaded handle (see page 1541).

Dusting Cloth—Microfiber disposable cloth traps dust and dirt without chemical treatment. 250 perforated sheets per roll.

Description	Item No.
25" Doodleduster Dust Head	1CJ56
38" Doodleduster Dust Head	1CJ55
Doodleduster Dusting Cloth, 1 Roll	3UZ78



No. 2DCC4

Dust Mop Treatment

TOUGH GUY

Oil-Based—Emulsifiable treatment cleans, polishes, and protects in one step. For all composition hard surfaces. No CFCs.

Water-Based—Creates a slip-resistant surface when applied to dusting tools. Dusts, cleans, and polishes in one step. For wood surfaces, sealed cement, vinyl, linoleum, and resilient tile floors. No CFCs.

Description	Size*	Item No.	
Oil-Based Aerosol	16 oz.	2DCC6	*
Water-Based Aerosol	20 oz.	2DCC4	*
Water-Based Liquid	32 oz.	2CYH3	

** Size refers to container size. Weight of product may vary.*


No. 1TZF9

No. 1TZG1

Wedge Dust Mops

TOUGH GUY

Launderable.

Cut-End Mop Head—Slot-back flat mop. 10-ply cotton/poly blend.

Cut-End Mop Kit—Includes 48" wooden handle, mop frame, and cotton/poly blend mop head No. 1TZF7.

Looped-End Mop Head—Slot-back. 10-ply cotton/poly blend.

Description	Item No.
Cut-End Wedge Mop Head, White	1TZF7
Cut-End Wedge Mop Kit	1TZF8
Looped-End Wedge Mop Head, Yellow	1TZF9
Wedge Mop Frame with 48" Wood Handle	1TZG1
Wedge Mop Frame with 52" Fiberglass Handle	2TVG4


No. 3U097


No. 1CJ79

Baseboard Cleaning Systems

3M

3M™ DOODLEBUG™ PAD HOLDER KIT

Includes holder and one white and one brown pad.

Swivel Pad Holder Kit—For hard-to-reach areas. Threaded for attachment to standard broom handles (sold separately on page 1541).

Handblock Pad Holder Kit—Has a built-in handle with hook-and-loop bottom to hold pads firmly in place.

3M™ DOODLEBUG™ PADS

White—For cleaning delicate surfaces.

Blue—For medium-duty cleaning and scrubbing.

Brown—For tough jobs like removing finish and wax buildup from baseboards and floor edges.

Black—For extra heavy-duty cleaning and stripping.

Description	Color	Item No.	Pkg. Qty.
Doodlebug™ Pad Holder Kits			
Swivel Pad Holder Kit	Orange	3U097	1
Handblock Pad Holder Kit	Brown	1CJ79	1
Doodlebug™ Pads			
Light-Duty Pad	White	3U099	5
Medium-Duty Pad	Blue	3U098	5
Heavy-Duty Pad	Brown	1CJ85	5
Extra-Heavy-Duty Pad	Black	3U100	10
Floor Scrub Brush	Black	4WD78	8


No. 6XE75

Baseboard Cleaning Systems

TOUGH GUY

PAD HOLDER KITS

Provide even pressure over the surface of the pad. Swivel pad holder accepts threaded, tapered, or straight 15⁄16" broom handles (sold separately on page 1541). Include holder and 2 pads (1 white, 1 brown).

PADS

White—For light cleaning on delicate surfaces.

Blue—Medium-duty where very abrasive action may not be required or may cause damage.

Brown—Heavy-duty where very abrasive action is necessary.

Black—Extra heavy-duty for tough jobs like removing rust stains or heavy dirt buildup.

Description	Color	Item No.	Pkg. Qty.
Pad Holder Kits			
Swivel Pad Holder Kit	Blue	6XE75	1
Swivel Pad Holder Only	Blue	6XE76	1
Hand Pad Holder Kit	Blue	6XE77	1
Pads			
Light-Duty Pad	White	6XE74	5
Medium-Duty Pad	Blue	6XE72	5
Heavy-Duty Pad	Brown	6XE73	5
Extra-Heavy-Duty Pad	Black	6XE71	5



Yellow Cotton Synthetic
No. 1TZC3



Green Echo
No. 3XFZ5

Looped-End Dust Mops

COTTON SYNTHETIC

Designed for healthcare use. 10-ply construction reduces linting, increases coverage, and extends wear. Feature cotton synthetic blend yarn. All heads fit standard frames and handles.

ECHO

Manufactured from recycled soda bottles. Environmentally preferred construction contains 100% recycled content (30% postconsumer, 70% post-industrial). Designed for use on hard-surface floors. Fast-drying.

Description	YELLOW COTTON SYNTHETIC Item No.	BLUE COTTON SYNTHETIC Item No.	GREEN ECHO Item No.
18" Dust Mop	1TZB9	1TZC4	3XFZ5
24" Dust Mop	1TZC1	1TZC5	3XFZ6
36" Dust Mop	1TZC2	1TZC6	3XFZ7
48" Dust Mop	1TZC3	1TZC7	3XFZ8



Synthetic
No. 1YVB8



Antimicrobial
No. 1YVB4

Looped-End Dust Mops

COTTON SYNTHETIC

Twisted loop blend provides longer product life than traditional cotton. Slip-on/slip-through backing. Kits include dust mop, metal frame, and 60" snap-on handle. Contains 75% recycled content (57% post-industrial cotton and 18% PET plastic).

SYNTHETIC

Has longest product life versus cotton or blend mops. Slip-on/slip-through backing. Kits include dust mop, metal frame, and snap-on handle. Contains 60% PET plastic.

ANTIMICROBIAL

Cotton synthetic blend with antimicrobial agent inhibits bacterial growth that causes odors and stains and shortens product life. Contains 35% post-industrial cotton and 18% PET plastic.

Description	Material	Color	Item No.
Dust Mop Kits			
36" Dust Mop Kit	Cotton Synthetic	Yellow	1YVD5
48" Dust Mop Kit	Cotton Synthetic	Yellow	1YVD6
Dust Mops			
18" Dust Mop	Synthetic	Blue	1YVB8
24" Dust Mop	Synthetic	Blue	1YVB9
	Cotton Synthetic—Antimicrobial	Green	1YVB4
36" Dust Mop	Synthetic	Blue	1YVC1
	Cotton Synthetic—Antimicrobial	Green	1YVB5
48" Dust Mop	Synthetic	Blue	1YVC2
	Cotton Synthetic—Antimicrobial	Green	1YVB6
60" Dust Mop	Synthetic	Blue	1YVC3



Launderable Heat-Set Cotton Synthetic
No. 1TZB2



Launderable Cotton
No. 1TZC8



Disposable Lightweight Cotton
No. 1TZF6

Cut-End Dust Mops

Fit standard dust mop frames and handles.

TOUGH GUY® ECHO

Manufactured from recycled soda bottles. Environmentally preferred construction contains 100% recycled content (30% postconsumer, 70% post-industrial). Fast-drying.

LAUNDERABLE HEAT-SET COTTON SYNTHETIC

Features include slot construction and heat-set cotton synthetic yarn which prevents unraveling. Mop kits include mop head, frame, and handle.

LAUNDERABLE COTTON

10-ply cotton; features slot pocket construction.

COTTON

10-ply cotton; features slot pocket construction. Mop kits include white yarn/white backing mop head, frame, and handle.

COTTON SYNTHETIC

4-ply cotton synthetic slit back with ties dust mop.

DISPOSABLE COTTON SYNTHETIC

4-ply cotton synthetic dust mops feature slot pocket construction.

DISPOSABLE LIGHTWEIGHT COTTON

4-ply cotton mops feature slit back construction. No. 1TZF6 Cut-to-Length Roll features a slide-in pocket every 8" so it can be cut to fit frames of any length. Includes cutting tool.

Description	Color	Item No.
Echo		
18" Dust Mop	Green	3XFZ9
24" Dust Mop	Green	3XGA1
36" Dust Mop	Green	3XGA2
48" Dust Mop	Green	3XGA3
Launderable Heat-Set Cotton Synthetic		
18" Dust Mop	Red, White	1TZB2
24" Dust Mop	Blue, Red	1TZB3
36" Dust Mop	Red	1TZB4
48" Dust Mop	Green, Red	1TZB5
36" Dust Mop Kit	Red	1TZB7
48" Dust Mop Kit	Red, Green	1TZB8
Launderable Cotton		
18" Dust Mop	Blue, White	1TZC8
24" Dust Mop	Blue, White	1TZC9
36" Dust Mop	Blue, White	1TZD1
48" Dust Mop	Blue, White	1TZD2
60" Dust Mop	Blue, White	1TZD3
72" Dust Mop	Blue, White	1TZD4
Cotton		
18" Dust Mop	Blue	1TZD5
24" Dust Mop	Blue	1TZD6
36" Dust Mop	Blue	1TZD7
48" Dust Mop	Blue	1TZD8
24" Dust Mop Kit	White	1TZD9
36" Dust Mop Kit	White	1TZE1
48" Dust Mop Kit	White	1TZE2
Cotton Synthetic		
18" Dust Mop	White	1TZE3
24" Dust Mop	White	1TZE4
36" Dust Mop	White	1TZE5
48" Dust Mop	White	1TZE6
Disposable Cotton Synthetic		
18" Dust Mop	Gray, White	1TZE7
24" Dust Mop	Gray, White	1TZE8
36" Dust Mop	Gray, White	1TZE9
48" Dust Mop	Gray, White	1TZF1
Disposable Lightweight Cotton		
18" Dust Mop	Gray, White	1TZF2
24" Dust Mop	Gray, White	1TZF3
36" Dust Mop	Gray, White	1TZF4
48" Dust Mop	Gray, White	1TZF5
60" Dust Mop	Gray, White	3XGA4
72" Dust Mop	Gray, White	3XGA5
Disposable Lightweight Cotton Dust Roll		
5"-Wide by 40-Ft. Roll	Natural	1TZF6

Metal Dust Mop Frame
No. 1TZG3



Plastic Red Split Frame
No. 1NFG7

Plastic Black Dust Mop Frame
No. 1NFF7

Dust Mop Frames and Handles

FRAMES

Metal—Frame resists rust.

Plastic—High-impact copolymer construction for correctional and heavy-use applications. Correctional safe.1/8"-frame body thickness. Will not rust. For use with Plastic/Fiber Handles Nos. 1NFF5 and 1NFF6.

HANDLES

Adjust from free-swivel action to rigid position. For use with metal frames. No. 1TZG8 handle is wood, No. 1TZG9 is fiberglass.

Size	Item No.
Metal Dust Mop Frames, Slide On	
18"	1TZG2
24"	1TZG3
36"	1TZG4
48"	1TZG5
60"	1TZG6
72"	1TZG7
Plastic Dust Mop Frames, Slide On	
18"	1NFF7
24"	1NFF8
36"	1NFF9
48"	1NFG1
Plastic Red Dust Mop Frame, Push Button	
16¾"	1NFG7
Dust Mop Handles, Clip On	
60"	1TZG8
60"	1TZG9



No. 2U267

Dusting Cloths

Brawny Industrial® carded rayon cloths are specially treated to attract and hold dust particles. Disposable. 200 per pkg.

Color	L	W	Item No.
Yellow	24"	17"	2U267
Yellow	24"	24"	1CF44



Microfiber Duster and Handle No. 1MYE1



Retractable Poly Wool Duster No. 6DMY4

Dusting Tools

OVERHEAD DUSTERS

Microfiber Dusters— Microfiber duster and sleeve attract dirt. High-pile design gets into small cracks and crevices. Features include a universally adjustable head and telescoping pole. Launderable sleeve ties onto head, with reinforcing rivets to prevent sleeve from backing off.

Poly Wool Dusters—Perfect for cleaning hard-to-reach places. Nonallergenic and washable. No. 6DMY4 handle extends 52" to 84."

Duster Mitt—High-pile cotton/poly blend sleeve can be used over worker's hand. Ideal for heavy dusting and dusting pipes.

Overhead Duster—Dusting tools feature 54" plastic handles, and are compatible with Poly/Cotton Sleeve No. 1MYF8. No. 1MYF4 has a regular head; No. 1MYF6 has an angled head.

OVERHEAD DUSTER WAND

Flexible head for hard-to-reach places. 20" plastic handle. High-pile, cotton blend microfiber sleeve is replaceable and launderable. Additional sleeves sold separately.

FEATHER AND LAMBSWOOL DUSTERS

Ostrich Feather—Washable dusters will not scratch surfaces. Designed for use on furniture, office equipment, and blinds. Nos. 1MYG3 and 1MYG5 have premium ostrich feathers.

Lambswool—Designed for wide, flat surfaces such as tabletops and desktops.

Description	L	Brand	Item No.
Overhead Dusters			
Microfiber Overhead Duster and Handle	38" to 54"	Tough Guy	**1MYE1**
Duster Replacement Sleeve for No. 1MYE1	10½"	Tough Guy	**1MYE3**
Poly Wool Duster	23½"	Tough Guy	**6DMY3**
Retractable Poly Wool Extendable Duster	52" to 84"	Tough Guy	**6DMY4**
Duster Mitt	10½"	Tough Guy	**1MYF2**
Overhead Duster	34" to 51"	Tough Guy	**1MYF4**
Overhead Duster with Anglehead Tool	54"	Tough Guy	**1MYF6**
Poly/Cotton Duster Sleeve	9"	Tough Guy	**1MYF8**
Overhead Duster Wand			
Flexible Duster Wand	27½"	Tough Guy	**1MYE5**
Green Sleeve for No. 1MYE5	20"	Tough Guy	**1MYE7**
Feather and Lambswool Dusters			
Premium Ostrich Feathers	14"	Tough Guy	**1MYG3**
Premium Ostrich Feathers	21"	Tough Guy	**1MYG5**
Ostrich Feathers, Brown	14"	Tough Guy	**1MYG1**
Ostrich Feathers, Black	14"	Tolco	**3LFN6**
Ostrich Feathers, Brown	30"	Tough Guy	**1MYG7**
Lambswool	25"	Tough Guy	**1MYG9**
Lambswool	35" to 47"	Tough Guy	**1MYH2**



Lambswool Duster No. 5DUU0



Microfiber Duster Sleeve No. 5DUU2



Microfiber Ceiling Fan Duster No. 5DUU5



Duster Brush No 3U452

Dusting Tools

OVERHEAD DUSTERS

Perfect for dusting shelves and other surfaces.

Lambswool Duster—Handle attaches to Unger cone or standard ACME thread. Use with disposable sleeve No. 5DUU3 or mircofiber sleeve.

Microfiber Ceiling Fan Duster— Unique shape cleans all sizes of ceiling fan blades. Use handheld or attach to telepole to clean high areas. Microfiber sleeve is washable.

Duster Brush—Split-tipped soft poly fibers allow for dusting without scratching. Great for ceilings, moldings, and corners.

OVERHEAD DUSTER WANDS

30"L duster retains its shape to slide between tight spaces. Includes 3 disposable electrostatic dusting sleeves and 1 machine-washable microfiber sleeve. Use wet or dry.

Description	L	Item No.
Overhead Dusters		
Lambswool Flexible Duster	15"	**5DUU0**
Lambswool Extendable Duster	30" to 60"	**5DUU1**
Microfiber Duster Sleeve	21"	**5DUU2**
Disposable Duster Sleeves, Pkg. of 50	18"	**5DUU3**
Microfiber Ceiling Fan Duster	13"	**5DUU5**
Duster Brush	12"	**3U452**
Polyfiber Cobweb Duster	11"	**6DTG5**
Overhead Duster Wands		
Pro Flat Duster 75 Wand	30"	**4GU50**
Replacement Microfiber Sleeve for No. 4GU50	25"	**4GU51**



Duster Wand No. 5MU95



Dusting Mitt No. 3HKC5

Duster Wands and Mitts

Overhead Duster Wands—Feature electrostatically charged dusting head. Can be attached to flexible wand for simple dusting of hard-to-reach, irregular surfaces. Quick-connect mechanism converts wand into high duster to effectively dust hard-to-reach areas when used with mop handles (sold separately). Include one launderable sleeve.

Dusting and Polishing Mitts— Mitts are ambidextrous and ideal for cleaning in crevices and irregular surfaces. Durable up to 500 launderings. 1 per pkg.

Description	L	Item No.
Overhead Duster Wands		
Duster Wand, Green	20"	**5MU95**
Green Replacement Duster Sleeve for No. 5MU95	22⅞"	**1PE54**
Duster Wand, White	20"	**3HKC3**
White Replacement Sleeve for No. 3HKC3	20"	**3HKC4**
Dusting and Polishing Mitts		
Green Cleaning Mitt	11"	**3CCZ1**
Blue Polishing Mitt	11"	**3CCZ2**
Green Dusting Mitt	11"	**3HKC5**

Orange Scrubbing Cloth No. 3ZNE3





Green Microfiber Mitt No. 1TTX9

Cleaning and Dusting Cloths and Mitts

Biodegradable Wiping Cloths—Easy-to-use cloths feature an innovative blend of cellulose and cotton for excellent durability and absorbency. Moisten cloth before cleaning to make it soft and pliable; lay flat to dry. Machine washable.

Description	Size	Pkg. Qty.	Item No.
Antibacterial			
Orange Scrubbing Cloth	7" x 9"	1	**3ZNE3**
Orange Cloth	12" x 15"	2	**3ZNE4**
Dusting and Polishing Mitts			
Green Dusting Mitt	9½ x 5"	1	**1TTX9**
Blue Polishing Mitt	9½ x 5"	1	**1TTY1**

Description	Size	Pkg. Qty.	Item No.
Biodegradable Wiping Cloths			
Green Cellulose & Cotton Fiber	7⅞₁₀ x 9⅘"	10	**5KDE5**
	11⅝" x 10₁₀"	5	**5KDE6**

Handles are sold separately on page 1541 and on Grainger.com®



Fine-Sweeping Floor Brooms

Brooms provide scratch-free sweeping on wood, ceramic tile, linoleum, smooth concrete, marble, and polished surfaces. Flagged tips pick up small particles. For use with threaded handles. No. 3U767 includes a solid metal brace.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Flagged Synthetic	Plastic	18"	Green	3"	**3U766**
Flagged Synthetic	Plastic	24"	Green	3"	**3H388**
Flagged Synthetic	Wood	36"	Green	3"	**3U767**







Smooth Surface Floor Brooms

For use with threaded handles. Nos. 4KNA4 and 4KNA5 have flagged tips for picking up fine dust and dirt. Nos. 4KNA6 and 4KNA2 are for general purpose sweeping on semismooth surfaces.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Fine Sweeping					
Polystyrene	Wood	18"	Gray	3"	**4KNA4**
Polystyrene	Wood	24"	Gray	3"	**4KNA5**
Tampico	Wood	14"	Black	3"	**4KNA6**
Tampico	Wood	16"	Black	3"	**4KNA2**
Horsehair	Wood	18"	Black	3"	**4KMZ9**
Horsehair	Wood	24"	Black	3"	**4KNA3**
Horsehair, Polypropylene	Wood	24"	Black	3"	**4KNA1**
Medium Sweeping					
Polypropylene	Wood	16"	White	4"	**4KNC8**



Perma-Sweep™ Floor Brooms

Acid- and bacteria-resistant fibers provide superior durability. Suitable for sweeping fine dust and dirt on smooth surfaces, and can also be used for wet or dry sweeping applications. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polystyrene	Plastic	14"	Gray	3"	**5UYF7**
Polystyrene	Plastic	18"	Gray	3"	**5UYF6**









General Purpose Floor Brooms

Brooms are suitable for sweeping both wood and tile. For use with threaded handles. Nos. 53UJ42 and 53UJ43 include a 60" steel handle.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Brand	Item No.
Tampico	Wood	12"	Black	3"	Tough Guy	**1DU75**
Tampico	Wood	18"	Brown	3"	Tough Guy	**1A842**
Unflagged Tampico	Wood	24"	Black	3"	Tough Guy	**2PY48**
Polypropylene	Wood	18"	Black	3"	Tough Guy	**2PYV4**
Polypropylene	Wood	24"	Black	3"	Tough Guy	**2PYV5**
PET, Polypropylene	Plastic	18"	Green	3⅛"	Quickie	**53UJ42**
PET, Polypropylene	Plastic	24"	Green	3⅛"	Quickie	**53UJ43**
Synthetic	Plastic	18"	Yellow	3"	Tough Guy	**1A840**
Synthetic	Plastic	24"	Yellow	3"	Tough Guy	**1A841**
Synthetic	Wood	36"	Yellow	3"	Tough Guy	**3U768**



Fine-Sweeping Floor Brooms

Remove even fine dirt and dust and are ideal for highly polished or waxed floors. Two threaded handle holes on either side of block allow use of alternating sides for even wear. Angle brace adds support and stability.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Brush and Handle Combo					
Polyethylene	Plastic	24"	Gray	3"	**498Z10**
Brush, Handle and Brace Combo					
Polyethylene	Wood	36"	Gray	3"	**498Z08**



3-in-1 Floor Brooms

Combine the best features of fine, medium, and heavy floor brooms in one product. Synthetic bristles have pitched angle for sweeping on all types of floor surfaces. Shorter, heavy bristles in front sweep heavy debris, and longer, fine/medium bristles in back sweep away fine dust and particles. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Plastic	18"	Blue	2" to 2⅜"	**1YTH5**
Polypropylene	Plastic	24"	Blue	2" to 2⅜"	**1YTH6**









Contractor Brooms

Synthetic fibers provide extra strength and durability. Can be used in wet and dry applications and with detergent and water. Acid- and fungus-resistant fibers last longer than traditional brooms. For use with contractor bolt-on handle No. 4GU69, see page 1541.

Silver and Black/Gray Plastic Fill—For sweeping up fine dust and dirt on smooth surfaces.

Black/Gray Flagged Synthetic Fill—For picking up heavy dirt and the fine dirt left behind. Includes a heavy-duty, wide-leg brace.

Maroon Plastic Fill—For sweeping up heavy dirt and debris on very rough surfaces.

Blue Plastic Fill—Stiff bristles are able to sweep heavily caked dirt and debris on very rough surfaces.

Black/Brown Palmyra Fill—For sweeping heavy debris. Broom comes with a heavy-duty brace.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Wood	24"	Silver	3"	**4KNC2**
Polypropylene	Wood	30"	Black/Gray	3"	**4KNC3**
Flagged Synthetic	Wood	24"	Black/Gray	3"	**4GU67**
Polypropylene	Wood	24"	Maroon	3"	**4KNC4**
Polypropylene	Wood	24"	Blue	3"	**4GU68**
Polypropylene	Wood	30"	Blue	3"	**4KNC5**
Palmyra	Wood	24"	Black/Brown	4"	**2PYV3**

Handles are sold separately on page 1541 and on Grainger.com®



Garage Brooms

Use to sweep or scrub heavy dirt from concrete, rough wood, blacktop, factory floors, or brick surfaces. For use with threaded handles. No. 53UJ41 includes a 60" powder-coated steel handle.

Brown and Maroon Synthetic Fill—Durable nylon works well in wet or dry conditions.

Brown Palmyra Fill—Stiff texture is suitable for use in factories, mills, and commercial buildings.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Brand	Item No.
Synthetic	Plastic	18"	Brown	3"	Tough Guy	**1A846**
Synthetic	Plastic	24"	Brown	3"	Tough Guy	**1A847**
Synthetic	Wood	24"	Maroon	3"	Tough Guy	**2PYV6**
Synthetic	Wood	36"	Maroon	3"	Tough Guy	**3U772**
Palmyra	Wood	18"	Brown	4"	Tough Guy	**1A844**
Palmyra	Wood	24"	Black, Brown	4"	Tough Guy	**2PY50**
Palmyra	Plastic	24"	Brown	4⅛"	Quickie	**53UJ41**



Coarse-Sweeping Street Brooms

For heavy-duty sweeping, scrubbing, or moving dirt and debris on streets and in parking lots. Use in factories, garages, and barns. For use with tapered handles.

Orange Plastic Fill—Broom has wide flared ends for sweeping close to curbs and walls.

Brown Plastic Fill—Nylon broom is oil-, solvent-, and heat-resistant for use in mills and factories.

Brown Palmyra Fill—Extra-stiff natural fiber broom has flared ends to sweep close to curbs and walls.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Wood	16"	Orange	5¼"	**2PYV7**
Polypropylene	Wood	16"	Brown	5¼"	**3A325**
Palmyra	Wood	16"	Brown	6"	**3A324**
Palmyra	Wood	16"	Brown	6"	**4KNC7**



Wire Center-Fill Floor Brooms

Tempered steel center bristles provide long life, flexing action, and aggressive debris removal. Sweep caked-on dirt from concrete, rough wood, asphalt, and brick surfaces. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Tampico, Wire Center	Wood	18"	Black	3"	**3U775**
Tampico, Wire Center	Wood	24"	Black	3"	**3U776**



Rubbermaid Commercial Products

Heavy-Duty Floor Brooms

Up to 40% more bristles to remove more debris in demanding industrial applications. Soft, durable polyethylene bristles sweep up fine debris on smooth surfaces. Heavy-duty polypropylene bristles sweep heavy debris and resist harsh environments and surfaces. No. 498Z07 features an antitwist support bracket that prevents handle from loosening. No. 498Z17 features permanent steel brace and die-cast aluminum connector for durabiity.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polyethylene	Plastic	24"	Black	4"	**498Z07**
Polypropylene	Wood	36"	Black	4"	**498Z17**



Rubbermaid Commercial Products

Medium-Duty Floor Brooms

Long-lasting polypropylene bristles help remove heavier dirt and debris on both rough wood and smooth floor surfaces. Threaded holes on each side of block allow handle to be switched for even wear. Angle brace adds support and stability.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Plastic	18"	Gray	3"	**498Z11**
Polypropylene	Plastic	24"	Gray	3"	**498Z09**
Polypropylene	Wood	36"	Gray	3"	**498Z18**



Recycled/Sustainable Material Floor Brooms

Made from all recycled or sustainable raw materials. Handles are made from durable bamboo, and fill material is made of recycled water bottles. Foam blocks are designed with recycled plastics and rubber wood blocks are made from the wood of rubber trees.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Fine Sweeping					
Recycled PET	Plastic	24"	Silver, Black	3"	**6YTC4**
Recycled PET	Wood	24"	Green	3"	**6YTC7**
Medium Sweeping					
Recycled PET	Plastic	24"	Green	3"	**6YTC5**
Recycled PET	Wood	24"	Blue	3"	**6YTC8**
Coarse Sweeping					
Recycled PET	Plastic	24"	Maroon	3"	**6YTC6**
Recycled PET	Wood	24"	Maroon	3"	**6YTC9**
Street Broom					
Recycled PET	Plastic	9"	Yellow	7"	**6YTD1**
Duo Sweep—1 Straight and 1 Angled Handle Hole					
Recycled PET	Wood	16"	Black	6"	**6YTD0**

Synthetic-Fill and Natural-Fiber Brooms

SYNTHETIC-FILL BROOMS

Lobby—Polypropylene bristles sweep efficiently and small head design fits easily in any corner.

Angle—Angled trim reaches under low cabinets and into other hard-to-reach places. Durable flagged fill. No. 1NFG2 intense use broom is an all-plastic broom with internal honeycomb style fiber handle that is hot melted and plugged for additional strength and security. Suitable for correctional facilities.

NATURAL-FIBER BROOMS

100% Corn Fiber—Use for everyday sweeping of fine dirt and debris on most surfaces. Multistitched to maintain broom shape and performance.

Corn Fiber Blend—No. 1VAC3 intense use broom has no-wire construction.



Synthetic Fill Lobby Broom
No. 1VAC2



Synthetic Fill Angle Broom
No. 1VAC5



100% Corn Fiber Heavy-Duty Warehouse Broom
No. 1VAB5

Description	Bristle Color	Overall L	Trim L	Sweep Face	Item No.
Synthetic-Fill					
Lobby Broom	Black	35"	4"	5⅞"	1VAC2
Floor Broom	Black	56"	11"	10"	3ZJE1
Angle Broom, Aluminum Handle	Silver	54¾"	6"	11"	6MPT8
Angle Broom, Steel Handle	Silver	54¾"	6"	11"	6MPT9
Angle Broom, Wooden Handle	Yellow	56"	7½"	12"	1VAC4
Angle Broom, Vinyl-Coated Metal Handle	Yellow	56"	7½"	12"	1VAC5
Intense Use, Correctional Safe Angle Broom	Black	61"	6"	9"	1NFG2
Intense Use, Correctional Safe Angle Broom Head Only	Black	—	6"	9"	1NFG3
Natural-Fiber					
100% Corn Fiber Brooms					
Heavy-Duty Warehouse Broom	Tan	56"	18"	12"	1VAB5
Heavy-Duty Warehouse Broom	Black	56"	18"	12"	3ZJD4
Medium-Duty Janitor Broom	Tan	56"	18"	12"	1VAB6
Medium-Duty Janitor Broom	Black	56"	18"	12"	3ZJD5
Household Standard Broom	Tan	56"	17"	11"	1VAB7
Household Standard bBroom	Black	56"	17"	11"	3ZJD6
Lobby Broom	Tan	39"	10½"	7"	34F929
Lobby Broom	Tan	32"	10"	7"	34F930
Whisk Broom	Tan	12"	10"	7½"	34F931
Corn Broom Head	Natural	18"	9¾"	12"	6PVY1
Corn Broom Head	Natural	18"	10"	13"	6PVY2
Corn Fiber Blend					
Medium-Duty Warehouse Broom	Tan	56"	18"	11½"	1VAC1
Medium-Duty Warehouse Broom	Black	56"	18"	11½"	3ZJD7
Medium-Duty Janitor Broom	Tan	56"	17"	11½"	1VAB9
Medium-Duty Janitor Broom	Black	56"	17"	11½"	3ZJD8
Household Standard Broom	Tan	56"	16"	11½"	1VAB8
Household Standard Broom	Black	56"	16"	11½"	3ZJD9
Intense Use Broom	Tan	56"	17"	12"	1VAC3



Threaded Acme Hardwood Tip
No. 1A839



Tapered Bamboo Tip
No. 3ZHY2



Tapered Fiberglass Tip w/Adapter
No. 1VAC8



Contractor Hardwood Tip w/Metal Attachment
No. 4GU69

Handles

THREADED ACME TIP

For use with floor and garage brushes, industrial coatings, and general-purpose wash brushes.

TAPERED TIP

For use with street brooms, floor/deck scrub brushes, squeegees, and window wash brushes.

CONTRACTOR

Hardwood handle with metal attachment for bolt-on bracket. For use with Contractor Brooms, sold on page 1539.

Description	L	Dia.	Tip W	Tip L	Item No.
Threaded Acme Tip					
100% Bamboo Wood	60"	15⁄16"	0.94"	1"	3ZHY4
	60"	15⁄16"	0.94"	1"	3ZHY3
Bamwood Handle/Wood Tip	60"	15⁄16"	0.7"	1"	1VAJ8
Bamboo Handle/Metal Tip	60"	15⁄16"	0.7"	1"	1VAJ9
Hardwood Tip/Hardwood Handle	60"	15⁄16"	0.7"	1"	1A839
	60"	1⅛"	—	1"	3U790
White Fiberglass Broom Handle	60"	15⁄16"	0.7"	1"	1VAC6
Plastic Tip/Aluminum Handle	60"	1"	—	¾"	1YTH2
Plastic Tip/Hardwood Handle	60"	15⁄16"	0.7"	1"	3H389
Plastic Tip/Fiber Threaded Intense Use Handle	58"	15⁄16"	0.7"	—	1NFF5
Replacement Threaded Tip for No. 1NFF5	3¼"	1"	—	3¼"	1NFH3
Hardwood Handle/Metal Tip	60"	15⁄16"	—	1"	3H384
Metal Tip/Hardwood Handle	96"	1⅛"	⅝"	2⅝"	5UYF9
	120"	1⅛"	⅝"	2⅝"	5UYF8
Wood Handle/Tip, For Use With Squeegees, Brooms, Brushes	72"	1⅛"	—	1"	32UU95
Bamwood Handle/Tip, For Use With 6PVX9, 6PVY0	38"	1⅛"	—	—	6PVY3
Bamwood Handle/Tip, For Use With 6PVY1, 6PVY2	38"	15⁄16"	—	—	6PVY4
Metal Handle/Tip, For Use With Masonry, Roof Brushes, Street Brooms, Floor and Deck Brushes, and Squeeges.	48"	15⁄16"	¾"	⅞"	15Y109
	60"	15⁄16"	¾"	⅞"	15Y111
Tapered Tip					
100% Bamboo Wood	60"	1⅛"	1.125"	1"	3ZHY2
Hardwood Tip/Hardwood Handle	60"	1⅛"	—	—	3A326
	96"	1⅛"	⅝"	2⅝"	5UYG0
Tapered Tip w/Adapter					
White Fiberglass Broom Handle	60"	15⁄16"	0.7"	1"	1VAC8
Contractor					
Hardwood	60"	1⅛"	—	—	4GU69

Dust Pans

PLASTIC

Lobby—Self-standing pans have rear wheels for mobility. No. 1VAJ5 includes a windbreak cover to help prevent dust and debris from coming out of the hopper.

1-Pc. Molded—Molded plastic maintains a straight edge. Color-coded dust pans help minimize cross contamination between work areas.

METAL

Lobby—Self-opening and closing lid. 30" handle.

Janitor—Durable, 1-pc., 20-ga. steel with corrugated ribs for rigidity and strength.

ALUMINUM

Rolled aluminum handle for easy storage.

Overall L	Color	Item No.
Plastic		
Lobby with Lid		
12¾"	Black	8AWY1
37"	Black	1VAJ5
Lobby		
12¾"	Black	4YJ48
37"	Black	1VAJ6
1-Pc. Molded		
12"	Black	1VAJ7
12"	Red	2VEY1
12"	White	2VEY2
12"	Blue	2VEY3
12"	Yellow	2VEY4
12"	Green	2VEY5
12¼"	Black	5W636
16"	Black	1VAK1
22"	Black	9CD34
Metal		
Lobby		
36"	Black	5W640
Janitor		
16"	Black	1CH74
12"	Black	5W639
Aluminum		
17"	Silver	4YRE7



No. 2VEY1



No. 1CH74



No. 1VAJ6



No. 5W640



No. 4YRE7

Handles are sold separately on page 1541 and on Grainger.com®


No. 59JM31


No. 59JM32

Lobby Broom and Dust Pan Sets

Help keep public areas neat and clean with these broom and dust pan sets. The durable polypropylene bristles can maintain their appearance even after repeated use. Rubbermaid® set is acid- and chemical-resistant and includes a vinyl handle. Tough Guy® sets come with a metal handle.

Description	Broom Handle L	Trim L	Sweep Face	Brand	Item No.
Broom with Lidded Dustpan	31"	4"	5⅞"	Tough Guy	**59JM31**
Broom with Open Dustpan	28"	5"	7⅞"	Rubbermaid Commercial Products	**59JM15**
Broom with Open Dustpan	31"	4"	5⅞"	Tough Guy	**59JM32**


No. 24WJ58


No. 3HUP8

Sweeping Compound

TOUGH GUY®

Instantly attracts dust and dirt, holding dirt to the ground while area is being swept. Keeps particles from rising into the air and diminishes the inhalation of harmful dust. Oil-based compound with grit contains sand which acts as an abrasive to loosen dirt and grime from work floors. For use in the construction industry, warehouses, boat yards, factories, garages, and more.

ZEP® PROFESSIONAL

Soy-based, all-purpose, nonpetroleum formula captures dust and debris on hard floors. Made with renewable soy-based oils.

Material	Color	Item No.
Tough Guy		
Gritted, Oil Based	Green	**24WJ58**
Gritted,Oil Based, Sand	Red	**24WJ59**
Gritless, Oil Based	Red	**24WJ57**

Material	Color	Item No.
Zep Professional		
Paraffin Oil	Red	**3HUP8**


No. 1VAD7


No. 1VAD8


No. 1VAD9


No. 1VAE1


No. 2PYV9

Scrub Brushes

SQUARE END

For general purpose cleaning and scrubbing. Resists water, acid, and alkali solutions.

CURVED BLOCK

Molded plastic block provides a comfortable grip.

IRON STYLE

Handle keeps hands out of cleaning solutions and water.

NAIL CLEANING

Easy grip block for scrubbing with hand cleaners.

POINTED ENDS

For general cleaning and scrubbing with a variety of cleaning solutions. Pointed ends allow for brushing close to walls and into corners.

Description	Brush L	Block Material	Trim L	Item No.
Square End	8"	Wood	1"	**1VAD7**
Curved Block	6⁷⁄₁₀"	Plastic	1"	**1VAD8**
Iron Style	6"	Plastic	1½"	**1VAD9**
Nail Cleaning	4⁷⁄₁₀"	Wood	⅝"	**1VAE1**
Pointed Ends	9"	Wood	1⅛"	**2PYV9**


No. 2KVF5


No. 2KVF8

Food-Grade Scrub Brushes

Feature poly block construction and FDA-approved nylon filaments designed to clean tanks, vessels, walls, and floors in food grade applications. 5" brush width; 1¾" trim length. Use with Threaded Fiberglass Handle No. 2KVF8, sold separately. 60"L handle features durable honeycomb construction.

Description	Brush L	Item No.
Scrub Brushes		
Soft	7½"	**2KVF5**
Medium	7½"	**2KVF6**
Stiff	7½"	**2KVF7**
60"L Handle		
¾" Acme Thread	—	**2KVF8**


Shown on Broom (Not Included)

Brace For Hardwood Block Brooms

Steel brace wraps around handles and attaches to block with wood screws. Provides extra support for handle and block to help increase life of brush. For all handle sizes.

L	W	Item No.
12½"	6⅛"	**1VAD2**

Handles are sold separately on page 1541 and on Grainger.com®



No. 1ECL4



No. 1ECL5

Mop and Broom Racks

TOUGH GUY

Feature spring-activated rubber cams mounted on plated 304 stainless steel retainers. Mop or broom is held in place by their own weight. Backplate constructed of 304 22-ga. steel with architectural satin finish. Mounting screws included. 2¾"D.

L	W	Item No.
26"	4¾"	1ECL4
36"	4¾"	1ECL5

Baseboard Brush

TOUGH GUY

Block is made from a solvent-resistant synthetic foam. Use with 15⁄16" threaded Acme tip handles, sold separately on page 1541.

Overall L	Item No.
5½"	1VAF2



Carpet/Upholstery Spot Brush

TOUGH GUY

Durable synthetic bristles are moisture-resistant. For use on stained carpet, upholstery, and floors.

Overall L	Trim L	Item No.
8½"	⅝"	1VAF1



UNGER

26" Ergo Toilet Bowl Brush

Ergonomic System No. 5PE64 includes holder, 26" handle, and 2 replaceable brush heads. Holder hangs on cart or stands freely. Extra-long handle prevents bending and stooping.



No. 5PE64



No. 2XE26



No. 1NXF7

Description	Handle Material	Mfr. Model	Item No.
26" Ergo Toilet Bowl Brush System	Plastic	BBWHR	5PE64
Replacement Brush Heads, Pkg. of 2	—	BBRHR	2XE26
Replacement Swab Heads, Pkg. of 2	—	BSRHR	1NXF7



No. 1VAE2



No. 1VAE4



No. 1VAE6

TOUGH GUY

Utility Brushes

WHITE NYLON

Utility scrub brushes will not absorb odors or water. For high-temperature cleaning and hospital use.

MAROON SYNTHETIC

Resist acid, alkali, and water. For scrubbing cans, pots, and tubs.

BEIGE TAMPICO

Retains fluids for liquid transfer to work surface. Chemical- and water-resistant handle will not warp or crack.

Description	Overall L	Item No.
White Nylon	8"	1VAE2
White Nylon	20"	1VAE3
Maroon Synthetic	8½"	1VAE4
Maroon Synthetic	20"	1VAE5
Beige Tampico	20"	1VAE6



No. 1VAE7



No. 1VAE8

TOUGH GUY

Window Wash Brushes

Synthetic brush bristles are solvent resistant and will not rot or mildew. 2.5" trim length. No. 1VAE7 uses a tapered handle. No. 1VAE8 uses a tapered or threaded handle. Handles sold separately on page 1541.

Description	W	Block Material	Item No.
Standard Window Wash Brush	8"	Polystyrene/Wood	1VAE7
Round Window Wash Brush	4½"	Polystyrene	1VAE8



No. 1VAE9



Shown in both use and wringing positions
No. 2U289

TOUGH GUY

Bowl Brushes/ Mops and Caddy

20" White Tampico Bowl Brush— Handle features string hole. 2" trim length.

21" Contoured Synthetic Bowl Brush—Long handle provides easy access to rim of toilet bowl. Nonscratching, acid- and alkali-resistant fill.

15" Correctional Bowl Brush—All-plastic brush will not rust or break. Flexible handle and heavy-duty bristles make it suitable for institutional and correctional applications.

Cone Bowl Mop—Self-wringing cone removes excess liquids. Leakproof cone is friction-fit to a heavy-duty round handle.

Deluxe Toilet Bowl Mop—Offers easy cleanups. Acid-resistant polypropylene strands.

Toilet Bowl Caddy—Friction-fit compartment snugly holds 32-oz. bottle. Hinged lid hides mop and contains corrosive fumes. Bottle and toilet mop not included.

Description	Handle Material	Mfr. Model	Item No.
20" White Tampico Bowl Brush	Plastic	3A349	3A349
21" Contoured Synthetic Bowl Brush	Wood	1VAE9	1VAE9
15" Correctional Bowl Brush	Plastic	1NFG8	1NFG8
Cone Bowl Mop	Plastic	280305	2U289
Deluxe Toilet Bowl Mop	Plastic	280300	2U288
Toilet Bowl Caddy	Plastic	280376	1CG56

Handles are sold separately on page 1541 and on Grainger.com®


No. 1YXC3


No. 1YXC2


No. 1YXC8


No. 1YXC5

Roofing, Cement, and Masonry Brushes

ROOFING

Brushes will spread roof tars and coatings, plus apply cement.

CEMENT FINISHING

Use with newly poured cement to create a textured surface. Can also apply coatings on asphalt or concrete.

MASONRY

Apply cement and liquid waterproofing materials easily. Acid masonry brush works well with Kalsomine, acids, and water repellents.

Description	Item No.
Roofing	
2"L White Tampico Fill, 7" Block	2PYW3
2½"L White Tampico Fill, 7" Block	1YXC1
White Tampico Fill, 6¼" Block	1YXC3
White Tampico Fill, 8¾" Block	1YXC4
Polypropylene Fill, 7" Block	1YXC2
Cement Finishing	
Polypropylene Fill, 24" Block	1YXC8
Horsehair Fill, 24" Block	1YXC9
Masonry	
Tampico Fill, 7" Block	2PYW2
Tampico Fill, 6½" Block	2PYW1
Solvent-Resistant Polypropylene Fill, 6" Block	1YXC5
White Tampico Fill, 6½" Block	3A340
White Tampico Fill, 7" Block	1YXC6
Acid Brush White Tampico Fill, 8" Block	1YXC7


No. 1A849


No. 3U788

Bench and Counter Dusters

EXTRA-FINE SWEEPING, HORSEHAIR

Scratch-free performance. Deluxe hardwood block with black horsehair fill. Not recommended for wet or oily surfaces.

SMOOTH SURFACE SWEEPING, HORSEHAIR

Black bristles. For clearing light debris from counters and other surfaces.

FINE SWEEPING, TAMPICO

Natural tampico bristles are heat-resistant. Hardwood block resists most chemicals. Light to medium sweeping.

FINE SWEEPING, SYNTHETIC

Flagged tips provide gentle sweeping in dry applications. With green synthetic fill.

MEDIUM SWEEPING, SYNTHETIC

Acid- and alkali-resistant brush for wet or dry use. Foam block has black synthetic fill.

Description	Handle Material	Brush L	Trim L	Item No.
Extra-Fine Sweeping, Horsehair	Wood	9"	2¼"	1A849
Smooth Surface Sweeping, Horsehair	Wood	8"	2¼"	4KNA7
Fine Sweeping, Tampico	Wood	8"	2½"	1DU76
Fine Sweeping, Synthetic	Foam	9"	2½"	3U788
Medium Sweeping, Synthetic	Foam	9"	2½"	1NXZ9


No. 2KVF3

Tube, Pipe, and Drain Brushes

White nylon tube brushes are made with filament for food grade applications. Stainless steel stem and fittings are designed to be autoclaved. 4½" brush length; 7" overall length.

Brushes require 48"L Nylon Handle No. 2KVF4, sold separately.

Brush Dia.	Item No.
Tube and Pipe Brushes	
1"	2KVE4
1½"	2KVE5
2"	2KVE6
2½"	2KVE7
3"	2KVE8
4"	2KVE9
5"	2KVF1
6"	2KVF2
8"	2KVF3
48" Nylon Handle, Pkg. of 4	
—	2KVF4


No. 1VAD4


No. 3U780


No. 1DU74

Floor/Deck Scrub Brushes

DUAL SURFACE

Synthetic bristles for scrubbing floor and wall surfaces. Use with threaded tip handle, sold separately on page 1541.

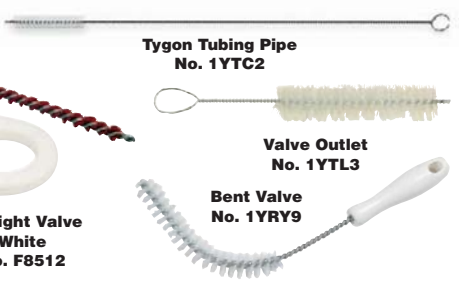
SWIVEL

U-joint design is suitable for hard-to-reach detail cleaning. Use with threaded tip handle, sold separately on page 1541.

DECK

For general cleaning in either wet or dry applications. Use with tapered tip or threaded handle, sold separately on page 1541.

Description	Bristle Color	Brush L	Brush W	Item No.
Dual Surface				
Brush w/Squeegee	Blue	10 in	4 in	1VAD3
Brush Only	Blue	10 in	4 in	1VAD4
Swivel				
General Scrubbing	Blue	8 in	3 ½ in	3U779
Power Scrubbing	Brown	8 in	3 ½ in	3U780
Deck				
Blue Polypropylene Fill	Blue	10 in	4 in	4KNC6
Crimped Yellow Polypropylene Fill	Beige	10 in	1 ¾ in	3H382
Crimped Yellow Polypropylene Fill	Beige	12 in	2 ¾ in	1DU74
Brown Palmyra Fill	Brown	10 in	1 ¾ in	3H381
Brown Palmyra Fill	Brown	10 in	2 ¾ in	4KNC1
Brown Palmyra Fill	Brown	12 in	2 ¾ in	4KNA8



Tubing, Elbow, and Fitting Brushes

TYGON TUBING PIPE

Clean all types, sizes, and lengths of tubing. Polyester bristles are twisted in flexible galvanized wire to effectively clean tubing.

STRAIGHT AND BENT VALVE

Designed to clean straight pipes, elbows, tees, and valves. Feature stiff polyester bristles.

VALVE OUTLET

Stiff polyester bristles provide effective cleaning. 12-ga. galvanized wire looped handle.

Brush L	Brush Dia.	Handle L	Overall L	▶CHOOSE: Bristle Color	Item No.
Tygon Tubing Pipe with Loop Handle					
5"	1"	19"	24"	White	1YTC2
5"	2"	19"	24"	Yellow	1YTE1
Stainless Steel Straight Valve Brushes with Wire Loop Handle					
5"	¼"	13"	18"	Blue, Brown, Green, Red, Tan, White, Yellow	F8512
5"	¼"	31"	36"		F8511
5"	⅜"	13"	18"		F8510
5"	⅜"	31"	36"		F8509
5"	½"	13"	18"		F8508
5"	½"	31"	36"		F8507
5"	¾"	13"	18"		F8506
5"	¾"	31"	36"		F8463
5"	1"	13"	18"		F8422
5"	1"	31"	36"		F8478
5"	1½"	13"	18"		F8446
5"	1½"	31"	36"		F8445
5"	2"	13"	18"		F8444
5"	2"	31"	36"		F8443
Galvanized Wire Straight Valve Brushes with Plastic Handle					
7½"	1"	4½"	15"	White	1YRZ6
7½"	1½"	4½"	15"		1YTA5
7½"	2"	4½"	15"		1YTB4
Valve Outlet with Loop Handle					
7½"	1½"	7½"	15"	White	1YTL3
Bent Valve Brush					
7½"	1"	4½"	15"	White	1YRY9

Handles are sold separately on page 1541 and on Grainger.com®

Medium-Duty Straight Pipe Brushes

TOUGH GUY



No. 1YTE6

Brushes clean small tubing, lines, and openings.

Brush L	Handle L	Overall L	Item No.	¼" DIA. Item No.	⅜" DIA. Item No.	½" DIA. Item No.	¾" DIA. Item No.	1" DIA. Item No.	1½" DIA. Item No.	2" DIA. Item No.
Galvanized Straight Pipe Brushes with White Polyester Bristles										
5"	7"	12"	—	1YTE2	1YTE4	1YTE6	—	—	—	—
5"	13"	18"	—	—	—	1YTE7	—	—	—	—
5"	19"	24"	—	—	—	1YTE8	—	—	—	—
Galvanized Wire Curved Head Pipe Brush with Polypropylene Bristles										
11"	4"	15"	5DUU4	—	—	—	—	—	—	—
Stainless Steel Straight Valve Brushes with Wire Loop Handle										
5"	13"	18"	—	2RVD7	2RVE2	2RVE6	2RVF1	2RVF5	2RVF9	2RVG4
5"	31"	36"	—	2RVD9	2RVE4	2RVE8	2RVF3	2RVF7	2RVG2	2RVG6



No. 2RVD7
Image represents handle and end of brush



No. 1VAF3

No. 3CPG6

No. 3CPH2

Tile and Grout Detail Brushes

TOUGH GUY

No. 1VAF3 removes mold and mildew from most tile. Easy-to-clean stiff nylon bristles resist most chemicals. High-density plastic foam block. Nos. 3CPG6 and 3CPH2 help remove stains from grouted tile. No. 3CPH2 can be used with or without a handle. Compatible with threaded handles, sold separately on page 1541.

Description	Overall L	Trim L	Handle Color	Item No.
Tile and Grout Brush	8"	¾"	Blue	1VAF3
Tile and Grout Brush	9"	1"	White	3CPG6
Swivel Tile and Grout Brush	7½"	1¼"	Blue	3CPH2



No. 1VAG9

No. 1VAK6

Radiator Brushes

TOUGH GUY

Horsehair fill brushes for use in small and difficult-to-reach spaces.

Handle Material	Overall L	Trim L	Item No.
Plastic	24"	1½"	1VAG9
Wood	24"	2½"	1VAK6



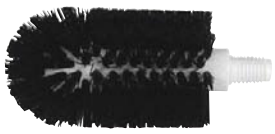
No. 1VAH2

Tube Fitting Brushes

TOUGH GUY

Stiff wire bristles for internal cleaning/deburring of copper tube fittings; remove sharp edges. Also used as a light socket cleaning brush to improve electrical contact.

Tube Dia.	Brush Dia.	Item No.
⅛"	¼"	1VAH2
⅜"	½"	1VAH3
⅝"	¾"	1VAH4
⅞"	1"	1VAH5



No. 2KE96



No. 2KE98

Floor Drain Brushes

TOUGH GUY

Nonabsorbent plastic block and synthetic fill keep drains flowing freely. Use with 36" long threaded handle No. 2KE98. Imprinted with the message: "USE FOR FLOOR DRAIN ONLY" in English and Spanish.

Description	Brush L	Brush Dia.	Item No.
Polypropylene	5½"	3"	2KE96
Polypropylene	5¾"	4"	2KE97
36"L White Plastic Handle			2KE98

Flux Brushes

TOUGH GUY

Black horsehair fill brushes with tin ferrule apply flux and other liquids. Economical and disposable. Pkg. of 24.

Brush W	Brush L	Item No.
5/16"	6⅛"	1VAH6
⅜"	6⅛"	1VAH7
½"	⅞"	1VAH8



No. 1VAH6



Spoke Brush

TOUGH GUY

Access areas with little clearance and into hard-to-reach corners. Medium stiff white tampico bristles clean easily with soap and water. 5" high-density wooden block.

Overall L	Brush L	Brush W	Item No.
17"	11"	3"	1VAH1

Scratch/ Cleaning Brushes

TOUGH GUY

Clean threads, files, metal parts, and castings; remove rust, paint, scale, and solder. Stainless steel wire recommended to clean aluminum and stainless steel materials.

Bristle Material	Handle L	Trim L	No. of Rows	Item No.	Pkg. Qty.
201 Stainless Steel	8"	½"	3 x 7	1VAG1	5
304 Stainless Steel	13¾"	1"	3 x 19	1VAF5	1
304 Stainless Steel	10"	1"	4 x 16	1VAF6	1
304 Stainless Steel	10"	1 3/16"	4 x 16	1VAF7	1
304 Stainless Steel	7"	½"	3 x 7	1VAG2	5
Brass	5¾"	1½"	3	10D449	1
Brass	8"	½"	3 x 7	1VAG3	5
Carbon Steel	11½"	1½"	4 x 11	1VAG8	1
Carbon Steel	13½"	1"	3 x 19	1VAF8	1
Carbon Steel	10"	1⅛"	4 x 16	1VAF9	1
Carbon Steel	10"	1 3/16"	4 x 16	1VAG7	1
Carbon Steel	14"	1⅛"	3 x 19	1VAG6	1
Nylon	6½"	½"	4 x 15	1VAG4	5
Nylon	7½"	½"	3 x 7	1VAG5	5
Stainless Steel	13¾"	1⅛"	3 x 19	1VAF4	1
Synthetic		⅝"	—	1VAK3	1
Tampico	9½"	2½"	—	1VAK2	1



No. 10D449



No. 1VAG8



No. 1VAG4



No. 1VAG2



No. 1VAK3



No. 1VAK2



Utility Scrub Brush
Blue
No. G8889



Pipe Hook Brush
Red
No. J6532

Wand Brush
Yellow
No. G8893



Multipurpose
Valve and Fitting
No. 1YTJ1

Color-Coded Brushes

Promote safe food handling practices and help minimize the risk of cross-contamination between work zones using color-coded brushes.

UTILITY SCRUB

General-purpose, with a white plastic block and 1⅝" polyester fill.

HAND SCRUB

Ergonomic design with curved back and flared, crimped bristles to hold solutions and clean along edges and corners. Contoured plastic blocks are 2½"W. Fill is 1⅜".

BENCH

Remove powder and other residues. Polyester fill is 2½".

PIPE HOOK

Circular clean-in-place brushes are ideal for cleaning curved drains, tubes, pipes, and equipment. Polyester bristles are twisted into galvanized steel wire.

WAND

Radiator-style brushes feature a long, narrow shape to clean countertops, refrigerator coils, conveyor belts, and other hard-to-reach spots. Slip-resistant, durable plastic handle will not crack or splinter.

BOTTLE AND GALLON

Wirewound brushes feature smaller diameter handles and softer bristles for cleaning containers with smaller openings. Nos. 1YTP3 and 1YTP4 are specially designed to easily slip into bottle necks.

MULTIPURPOSE VALVE AND FITTING

Medium stiff bristles provide aggressive cleaning, and rounded heads and ends protect against scratching.

Description	Brush L	Trim L	Overall L	▶CHOOSE: Color*	Item No.
Utility Scrub Brush, 17"L Long Handle	3"	1⅝"	20"	B, G, R, W, Y	G8890
Utility Scrub Brush, 5"L Short Handle	3"	1⅝"	8"	B, R, W, Y	G8889
Hand Scrub Brush, 6"L Block Handle	6"	1⅜"	6"	W	3NB61
Bench Brushes, 5"L Short Handle	8"	2½"	13"	B, G, R, W, Y	G8891
Pipe Hook Brushes, 4"L Short Handle	8"	2¼"	11½"	B, R, W, Y	J6532
Wand Brushes, 15"L Long Handle	9"	2¼"	24"	B, G, R, W, Y	G8893
Bottle Brush, 8"L Short Handle	4"	1"	12"	W	1YTN5
Bottle Brush, 9½"L Short Handle	6½"	1½"	16"	W	1YTP1
Gallon Brush, 10½"L Short Handle	8½"	2½"	19"	W	1YTP3
Gallon Brush, 6"L Short Handle	22"	1¼"	28"	W	1YTP4
Multipurpose Valve and Fitting Brushes, 10"L Short Handle	6"	3½"	16"	W	1YTJ1
	6"	3"	16"	W	1YTJ6

** B = blue, G = green, R = red, W = white, Y = yellow*



Hygiene Bench
Squeegee
Blue
No. J6517



Foam Squeegee
Red
No. J6521



51"L Aluminum
Handle
White
No. J4751



Floor Scrub
Brush
Red
No. J6529

60"L Fiberglass Handle
Yellow
No. J6523



10"L Scrub
Brush
Green
No. J4741



Hand Held
Dust Pan
Green
No. J4745



Pail
Red
No. J4755

Color-Coded Squeegees, Floor Brushes, and Cleaning Supplies

Protect against microbial cross-contamination by assigning specific colors to each potential area of contamination.

Color-coded supplies allow certain colors for specific cleaning purposes. This system is easy to understand and prevents cross-contamination for better sanitation.

SQUEEGEES

Hygiene—1-pc. design inhibits growth of bacteria by eliminating openings for dirt to accumulate. Soft thermoplastic elastomer blade contours easily to uneven surfaces. Frame is designed to help prevent fluids from splashing over squeegee frame. 12" squeegee includes a 6½" handle.

Foam—For cleaning liquid spills from floor surfaces. Double foam rubber blades conform to most surfaces, including tile and marble. Durable plastic frames will not rust or spark.

FLOOR SCRUB BRUSHES

Dual-angle plastic block and crimped polypropylene filament hold liquid for scrubbing at high and low angles. Threaded handle hole; order handle separately on page 1541. 1¾" trim length. Overall length: 10".

ANGLE BROOMS

Designed for extended use; ergonomic shape prevents uneven wear. 1"-dia., fiberglass handle. Sanitary, unflagged polypropylene bristles. Self-locking Flex-Tip™. 12" sweep face; 5½" to 7" trim length. Overall length: 54".

FLOOR SWEEPS

Hygienic, nonabsorbent plastic block with angled synthetic bristles. Short, heavy-duty bristles up front help sweep heavier debris. Long, fine bristles in back sweep fine dust and can be used with sweeping compound. 2⅓" trim length. Block size: 24".

HANDLES

1"-dia. handles for use with a variety of bench and floor squeegees and brushes. Short 6½" polypropylene handles feature ACME threads and are ideal for use with bench squeegees and brushes. 60"L fiberglass handles are self-locking.

Description	▶CHOOSE: Color*	Item No.
Hygiene Bench Squeegees		
12"L TPE Rubber	B, W, Y	J6517
Hygiene Floor Squeegees		
16"L TPE Rubber	G, W, Y	J6518
24"L TPE Rubber	G, R, Y	J6519
Foam Squeegees		
18"L Double Blade	B, G, R, W, Y	J6520
24"L Double Blade	B, G, R, W, Y	J6521
Floor Squeegees		
22"L Double Blade Foam Rubber	B, G, R, W, Y	J4743
24"L Single Blade TPE Rubber	B, G, R, W, Y	J4746
Floor Scrub Brushes		
10"L Polypropylene	G, R, W, Y	J6529
Angle Brooms		
54"L Plastic	B, G, R, W, Y	J6530

** B = blue, G = green, R = red, W = white, Y = yellow*

Description	▶CHOOSE: Color*	Item No.
Floor Sweeps		
24"L Synthetic	B, G, R, W, Y	J6531
Handles - For Use With Brushes, Brooms, Squeegees, ¾" Acme Thread		
51"L Fiberglass	B, G, R, W, Y	J4748
59"L Fiberglass	B, G, R, W, Y	J4749
51"L Aluminum	B, G, R, W, Y	J4751
59"L Aluminum	B, G, R, W, Y	J4752
Extension Handles - For Use With Brushes, Brooms, Squeegees, ¾" Acme Thread		
60⅝"L to 108⅜"L Aluminum	B, G, R, W, Y	J4756
Handles for Bench Squeegees		
6½"L Plastic	G, R, W, Y	J6522
Handles for Floor Brushes, Sweeps, and Squeegees		
60"L Fiberglass	B, G, R, W, Y	J6523

Description	▶CHOOSE: Color*	Item No.
Brushes		
10"L Scrub Polypropylene	B, G, R, W, Y	J4741
20¼"L Scrub Polypropylene	B, G, R, W, Y	J4747
12"L Bench Polypropylene	B, G, R, W, Y	J4742
10¹³⁄₃₂"L Wall Polypropylene	B, G, R, W, Y	J4750
8⁷⁄₆₄"L Tank Polypropylene	B, G, R, W, Y	J4753
Brooms		
7¹³⁄₆₄"L Polypropylene	B, G, R, W, Y	J4744
24"L Polypropylene	B, G, R, W, Y	J4754
Hand Held Dust Pans		
13"L x 11½"L W Polypropylene	B, G, R, W, Y	J4745
Pails		
3 gal. Polypropylene	B, G, R, W, Y	J4755



Color-Coded Hygienic Cleaning Tools

FDA-compliant products are ideal for cleaning where hygiene and cross-contamination is a concern. Incorporating a color-coded system in your HACCP plan allows for identifying and mitigating potential food safety issues.

Description	▶CHOOSE: Color*	Item No.
Bench Squeegees		
10"L Double Blade, Foam	B, G, R, W, Y	E7048
10"L Double Blade Ultra Hygiene	B, G, R, W, Y	H1605
10"L Single Blade, Rubber	B, G, O, P, PL, R, W, Y	H8708
Squeegee Replacement Blades		
16"L or 24"L Double Foam Blade	BK, W	J4182
20"L Black Foam Rubber, Double Blade Hygiene Cassette	BK	2RWL2
20"L Double Rubber Ultra Blade	B, G, R, W, Y	E7781
20"L White Foam Rubber, Double Blade Hygiene Cassette	W	31CG10
24"L Double Rubber Ultra Blade	B, BK, G, O, P, PL, R, W, Y	E7782
28"L Double Blade Foam	W	31CG12
28"L Double Blade Foam	BK	2RXC4
Ceiling Squeegees		
16"L Ceiling Squeegee	B, G, R, W, Y	G3981
Floor Squeegees w/Fiberglass Handles		
20"L Double Blade Foam w/51"L Handle	B, G, R, W, Y	D9057
20"L Double Blade Foam w/59"L Handle	B, G, R, W, Y	D9058
20"L Single Blade w/51"L Handle	B, G, R, W, Y	H8712
20"L Single Blade w/59"L Handle	B, G, R, W, Y	H8713
24"L Double Blade Foam w/51"L Handle	B, BK, G, R, W, Y	D9059
24"L Double Blade Foam w/59"L Handle	B, G, PL, R, W, Y	D9061
24"L Single Blade w/51"L Handle	B, G, R, W, Y	H8714
24"L Single Blade w/59"L Handle	B, G, PL, R, W, Y	H8715
28"L Double Blade Foam w/51"L Handle	B, G, R, W, Y	D9062
28"L Double Blade Foam w/59"L Handle	B, G, R, W, Y	D9063
Floor Squeegees w/Polypropylene Handles		
20"L Single Blade Rubber Ultra Hygiene w/59"L Handle	B, G, R, W, Y	K2495
20"L Single Blade Rubber w/51"L Handle	B, G, R, W, Y	K2494
24"L Single Blade Rubber Ultra Hygiene w/59"L Handle	B, BK, G, O, P, PL, R, W, Y	K2497
24"L Single Blade Rubber w/51"L Handle	B, BK, G, O, P, PL, R, W, Y	K2496
Floor Squeegees w/o Handles		
16"L Double Blade Foam	B, G, R, W, Y	E7049
20"L Double Blade Foam	B, BK, G, P, R, W, Y	E7050
20"L Double Blade Ultra Hygiene	B, G, R, W, Y	E7779
20"L Single Blade Ultra Hygiene	B, G, R, W, Y	H8710
24"L Double Blade Foam	B, BK, G, O, PL, R, W, Y	E7051
24"L Double Blade Ultra Hygiene	B, BK, G, O, P, PL, R, W, Y	E7780
24"L Single Blade Ultra Hygiene	B, BK, G, O, P, PL, R, W, Y	H8711
28"L Double Blade Foam	B, G, R, W, Y	F8430
28"L Double Blade Rubber	B, G, R, W, Y	J4671
28"L Single Blade Ultra Hygiene	B, G, R, W, Y	H8716
Hygienic Wall Brackets		
9½"L, 22-lb. Cap.	BK, O, Y	E9634
9½"L, 22-lb. capacity	B, G, R, W	E9634
Includes 2 Hooks, 1 Grabbers, 8 Pins and 1 Double Pin	B, BK, G, O, P, PL, R, W, Y	H1613
Includes 2 Hooks, 4 Grabbers, 14 Pins and 1 Double Pin	B, BK, G, O, P, PL, R, W, Y	H1612
Dust Pans		
Hand Held Dust Pan	B, BK, G, O, P, PL, R, W, Y	E9612
Plastic Pails		
1.5 Gal. Cap., Polypropylene	B, BK, G, O, P, PL, R, W, Y	H8704
3 Gal. Cap., Polypropylene	B, BK, G, O, P, PL, R, W, Y	F8439
5 Gal. Cap., Hygienic Polypropylene	B, G, R, W, Y	J5101
Plastic Pail Lids		
For 5 Gal. Cap. Pails, Polypropylene	B, G, R, W, Y	K2488

Description	▶CHOOSE: Color*	Item No.
Tank Brushes		
Polypropylene Fill - 1½" Trim L	B, G, R, W, Y	H1599
Tank Brush, Stiff 5½ x 8"	B, BK, G, O, P, PL, R, W, Y	F8448
Scrub Brushes		
Split Bristle/Flared Polyester Fill - 2" Trim L	B, G, R, W, Y	H1573
Bench Brushes		
Medium Polyester Bristle - 2⅝" Trim L	B, BK, G, O, P, PL, R, W, Y	H6191
Soft Polyester Bristle, 2⅝" Trim L	B, BK, G, O, P, PL, R, W, Y	H6192

** B = blue, BK = black, G = green, O = orange, P = pink, PL = purple, R = red, W = white, Y = yellow*

Description	▶CHOOSE: Color*	Item No.
Detail Brushes		
Polyester Fill, Stiff - ½" Trim L	B, G, O, PL, R, W, Y	H8699
Polyester Fill, Soft - 2¼" Trim L	B, G, O, P, PL, R, W, Y	K2493
Deck Scrub Brushes		
Deck Scrub, Stiff, 2½ x 11"	B, G, O, R, W, Y	D9071
Deck Scrub, Stiff, 3 x 8 57/64"	B, G, R, W, Y	K2492
High-Low Brush, Medium, 5 x 10"	B, BK, G, O, P, PL, R, W, Y	D9068
Deck Brush, Soft/Split, 3 x 8"	B, G, R, W, Y	E4126
Deck Scrub, Stiff, 3 x 12"	B, BK, G, O, P, PL, R, W, Y	G3980
Polyester Fill - 1 13/16" Trim L	B, G, R, W, Y	H1604
Ultra Safe Technology Brushes		
Stiff Polyester Hand Brush, 10" Overall L	B, G, O, P, PL, R, W, Y	J1707
Stiff Polyester Hand Brush, 15½" Overall L	B, G, O, P, PL, R, W, Y	J1708
Bench Brush, Soft Polyester 1½"W x 6½"L	B, G, O, P, PL, R, W, Y	J1709
Bench Brush, Medium Polyester 1½"W x 6½"L	B, G, O, P, PL, R, W, Y	J1710
Ultra Safe Technology Brooms		
Stiff Polyester Fill, 1½" Trim L	B, G, O, P, PL, R, W, Y	J1712
Medium Polyester Fill, 2¼" Trim L	B, G, O, P, PL, R, W, Y	J1711
Soft Polyester Fill, 2¼" Trim L	B, G, O, P, PL, R, W, Y	J1713
Brushes		
Dish Brush, Soft, 1 x 10½"	B, G, O, P, R, W, Y	E4121
Short-Handled Brush, Stiff, 2¾ x 10"	B, BK, G, O, P, PL, R, W, Y	H1610
Long-Handled Churn Brush, Stiff, 2 x 16"	B, BK, G, O, P, PL, R, W, Y	H1608
Hand and Nail Brush, Stiff, 1½ x 4 57/64"	B, BK, G, O, PL, R, W, Y	F8436
Scrub Brush, Stiff, 5 x 5"	B, G, R, W, Y	F8421
Hand Scrub Brush, Stiff/Flared, 3" x 8"	B, BK, G, O, P, PL, R, W, Y	H1606
Hook Brush, 2¼ x 15½"	B, BK, G, O, R, W, Y	J5779
Bottle Brush, Stiff, 3½ x 16 29/32"	B, BK, G, R, W, Y	J5777
Scrub Brush, Medium, 1 x 11"	B, G, R, W, Y	E4122
Short Handle, Medium, 1 3/64 x 10¼"	B, G, R, W, Y	K2484
Short Handle, Medium, 10 x 2¾"	B, G, R, W, Y	H1609
Long Handle, Medium, 2¾ x 15¾"	B, G, R, W, Y	H1607
Tube and Valve Brushes		
Medium, 2⅜ x 19½"	B, BK, G, O, P, PL, R, W, Y	H1579
Stiff, ¾ x 20"	B, BK, G, O, P, PL, R, W, Y	H1581
Stiff, 1⅝ x 20"	B, BK, G, O, P, PL, R, W, Y	H1582
Brooms		
Upright Broom Head, Medium, 2 x 11"	B, BK, G, O, PL, R, W, Y	D9069
Broom Head, Medium, 2 x 16 25/64"	B, G, O, P, PL, R, W, Y	D9072
Broom Head, Soft/Stiff, 2 x 24"	B, BK, G, R, W, Y	D9073
Angle-Cut Broom Head, Stiff, 1½ x 9½"	B, BK, G, O, R, W, Y	E4153
Angle-Cut Broom Head, Soft, 9 x 11½"	B, BK, G, R, W, Y	K2483
Heavy-Duty Floor Broom, 3"L Soft, 1½ x 9½"	B, G, R, W, Y	E4154
Combo Floor Broom, Soft/Stiff, 16 x 2"	B, BK, G, O, PL, R, W, Y	E9580
Heavy-Duty Floor Broom, Split/Soft, 2 x 16"	B, G, R, W, Y	E9582
Heavy-Duty Floor Broom, Stiff, 2 x 19"	B, G, R, W, Y	E9581
Heavy-Duty Floor Broom Head, Soft, 2 x 19"	B, BK, G, O, PL, R, W, Y	H1571
Lobby Broom with Lidded Dust Pan	B, BK, G, GY, O, P, PL, R, W, Y	J5780

Description	▶CHOOSE: Handle Color*	Item No.
Handles		
Fiberglass, Threaded, 51"L	B, BK, G, R, W, Y	F8427
Fiberglass, Threaded, 59"L	B, BK, G, O, P, PL, R, W, Y	F8426
Aluminum, 25½"L	B, G, R, W, Y	G3983
Aluminum, 51"L	B, BK, G, O, P, PL, R, W, Y	E9583
Aluminum, 59"L	B, BK, G, O, P, PL, R, W, Y	F8425
Aluminum, 57½"L	B, G, O, PL, R, W, Y	G3984
Extendable, 64 to 115"L	B, BK, G, R, W, Y	E4132
Stainless Steel, 59½"L	B, G, R, W, Y	G3982
Polypropylene, 6½"L	B, G, R, W, Y	H1569
Polypropylene, 51"L	B, BK, G, O, P, PL, R, W, Y	J0317
Polypropylene, 59"L	B, BK, G, O, P, PL, R, W, Y	J0318
Polypropylene, 67"L	B, G, R, W, Y	J0319
Pad Holders		
Handheld	B, G, R, W, Y	E9584
Floor Model	B, G, O, R, W, Y	E9585



No. 1YTR7

No. 1YTT3

No. 2NTJ7

Food Service Brushes

Glass Washer—Glasses of almost any style can be cleaned thoroughly and safely with this brush. Heavy-duty polyester bristles with a densely filled dome top hold up to extreme use. Threaded white plastic stems help prevent chipped or broken glasses. Brush features a molded plastic base with positive suction for a tight grip in sinks and on countertops.

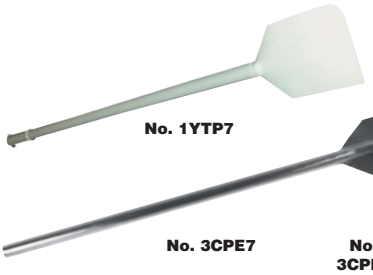
Oven and Grill—Wire bushes and metal scrapers quickly and easily remove heavy carbon deposits, rust, and burnt-on food buildup.

Note: Equipment must be turned off prior to brush use.

Grill Cleaning System—Specifically designed to clean hot surfaces without clogging. No. 2NTJ7 must be used with grill pad and holder. No. 2NTJ6 cleans without scratching or lifting surface cure.

Hot Beverage—Polyester fill brushes quickly and easily clean coffee decanters, makers, urns, creamers, and percolators.

Description	Overall L	Item No.
Glass Washer Brush with Black Polyester Bristles		
Bottle Brush	8"	1YTR7
Oven and Grill		
Broiler Brush with Carbon Steel Bristles	30½"	1YTT3
Broiler Brush with Stainless Steel Bristles	30½"	1YTT4
Pizza/BBQ Oven/Grill Brush with Carbon Steel Bristles	39"	1YTT6
Oven and Grill Brush with Scraper with Brass Wire Bristles	9"	1YTU2
Oven/Grill Brush and Scraper with Brass Wire Bristles (Head Only)	8½"	1YTT5
Oven/Grill Brush and Scraper with Brass Wire Bristles	42"	1YTT9
Grill Cleaning System		
Cleaning Brick, 5¾"L x 4"W, Pkg. of 20	—	2NTJ8
Scouring Pads, 5½"L x 4"W, Pkg. of 20	—	2NTJ7
Pad Holder, 6"L x 3½"W	—	2NTJ9
Cleaning Brick, 8"L x 4"W	—	2NTJ6
Hot Beverage		
Coffee Maker Brush	16"	3CPF5



No. 1YTP7

No. 3CPE7

No. 3CPF1

Food Service Scrapers

Scrapers are ideal for general mixing and stirring. Scrapers made of nylon (300°F) or flexible polyethylene (150°F) will sharpen and contour to a specific use. Smooth finish, with waterproof construction for easy cleanup. Use Paddle Scraper No. 1YTP7 for greater stirring and cleaning of large kettles. Stainless steel scraper is NSF Listed with chisel point blade and tapered side for improved scraping action. Threaded handle is fully sealed to eliminate bacteria and has plastic grip for comfort and heat resistance in high-temperature and high-viscosity applications.

Description	Item No.
Polyethylene Paddle Scraper, 40"	1YTP7
Stainless Steel Paddle Scraper, 60"	3CPE7
4½ x 7½" Nylon Paddle Scraper with 48" Stainless Steel Handle	3CPE9
4½ x 7½" Nylon Paddle Scraper with 72" Stainless Steel Handle	3CPF1
Replacement Blade for Nos. 3CPE9 and 3CPF1	3CPF3



No. 2KJK6



No. 2KJL4

Steel Wool Pads and Reels

Pads—General purpose carbon steel wool. Packaged in sleeves of 16 individual pads.

Reels—5-lb. carbon steel reels can be cut to size to meet the needs of specific applications. Nos. 2KJN3 to 2KJN5 are stainless steel wool for wet or corrosive environments, or where environmental exposure would cause discoloration or degradation. Also for heavier-duty industrial applications.

Grade	Application	PADS Item No.	REELS Item No.
Carbon Steel Wool			
Super Fine	Buff Woodwork	2KJK6	2KJL4
Extra Fine	Removes Paint From Wood	2KJK7	2KJL5
Very Fine	Polish Soft Metals	2KJK8	2KJL6
Fine	Cleans Porcelain, Tile & Grout	2KJK9	2KJL7
Medium	Preps Wood For Paint	2KJL1	2KJL8
Medium Coarse	Etches Metal	2KJL2	2KJL9
Coarse	Removes Lacquer & Shellac	2KJL3	2KJN1
Extra Coarse	Removes Paint, Rust & Varnish	—	2KJN2
Stainless Steel Wool			
Fine	Light-Duty Wet Sanding	—	2KJN3
Medium Coarse	Etching In Wet	—	2KJN4
Extra Coarse	Rough Wet Sanding	—	2KJN5



No. 2UY27



No. 6NE88

Erasing Pads

Tough Guy® Mighty Sponge—Blue center layer provides better grip and longer life. Use on floors, baseboards, wallpaper, tile, showers, and countertops.

Scotch-Brite™ Easy Erasing Pad—Ideal for removing stains, marks, ink, and more. No chemicals or sprays needed. Safe for indirect food contact areas.

L	W	Item No.	Pkg. Qty.
Tough Guy® Mighty Sponge			
4 11/32"	2¾"	2UY27	24
Scotch-Brite™ Easy Erasing Pad			
5⅛"	2⅞"	2GKH2	60
5⅛"	2⅞"	6NE88	4

SCOURING PADS

Nonabrasive—Cleans without scratching.

Medium-Abrasive—For most daily cleaning jobs.

Blue—Abrasive, open-weave pad cleans baked-on surfaces and crusted build-up on equipment.

Green—Flexible, heavy-duty abrasive pad.

White and Yellow—Yellow cellulose sponge backed with white, lightly abrasive scouring pad.

Green and Yellow—Yellow cellulose sponge backed with medium-abrasive green scouring pad. Premoistened and individually wrapped.

Blue and Yellow—Contour-cut sponge backed with blue antimicrobial scratchless scouring pad.

Antimicrobial—Green pad with antimicrobial treatment.

PADS

Nylon Soap—2 scrubbing surfaces and a foam center filled with concentrated liquid detergent.

Steel Wool—Steel wool is fully saturated with high-sudsing cleaning formula.

SCRUBBERS

Brass—Soft brass wire for use where scratching is an issue.

Stainless Steel—Wideband construction for full-coverage cleaning.

Plastic Mesh—Durable high-strength filament with overlap construction. For sensitive surfaces.

MICROFIBER SCRUBBERS

Blue—Sponge covered with microfiber for lint- and streak-free cleaning.


No. 2NTG8


No. 2NTH9


No. 3RAK3

TOUGH GUY

Scouring Pads and Scrubbing Sponges

Description	L	W	Item No.	Pkg. Qty.
Scouring Pads				
Nonabrasive	6"	9"	**2NTG7**	20
Medium-Abrasive	6"	9"	**2NTG8**	20
Blue	6"	3½"	**2NTG9**	20
Green	9"	6"	**2NTH1**	15
White and Yellow	6"	3½"	**2NTH2**	20
Green, Yellow	6"	3½"	**2NTH3**	20
Blue, Yellow	6"	3⅜"	**2NTJ2**	20
Antimicrobial	8⅞"	5⅞"	**2NTJ3**	20
Antimicrobial Commercial	8⅞"	5⅞"	**2NTJ4**	20
Pads				
Nylon Soap Pad	3½"	3½"	**2NTJ5**	5
Steel Wool Soap Pad	3⁷⁄₁₆"	3⅝"	**2NTH7**	120
Scrubbers				
Brass Scrubber	3"	3"	**2NTH8**	6
Stainless Steel Scrubber	3"	3"	**2NTH9**	6
Plastic Mesh Scrubber	4"	4"	**2NTJ1**	4
Microfiber Scrubbers				
Blue	5"	3"	**3RAK3**	2

Scouring Pads and Scrubbing Sponges

SCOURING PADS

Cleansing No. 98—For sensitive surfaces such as stainless steel, chrome, porcelain, and ceramic.

General Purpose No. 96—Synthetic scouring pad.

General Purpose Green No. 9650—Thicker hand-size version of scouring pad No. 96 eliminates cutting or folding of pad for a better grip.

Heavy-Duty No. 86—For heavily baked-on foods.

Pot 'n Pan No. 88—Synthetic material won't splinter or rust.

Power Pad No. 2000—Scours 2 to 4 times faster with 2 to 8 times less scratching than conventional scouring pads. Ideal for stainless steel.

Cleaning Pad No. 9000—Cleans most types of surfaces, including porcelain and nonstick cookware, without scratching.

Purple Scour Pad No. 2020—Fast scouring and low scratching.

Scour Pad No. 220—Heavy-duty, tough cleaning.

Multipurpose No. 622—For no-scratch scouring.

Dobie® All Purpose Pad No. 720—Hand-size, no-scratch pad constructed of mesh-wrapped urethane sponge.

Grill Scrubber No. 7721—Mineral-coated to remove burnt-on food and grease.

Natural Fiber—Made from 50% plant-based materials. One sponge does the work of 30 paper towels.

SCRUBBING SPONGES

Power Sponge No. 3000—Power Pad No. 2000 is combined with an antimicrobial sponge.

Scrub Sponge No. 74—Features No. 96 pad on one side for medium-abrasive scrubbing.

Scrub Sponge No. 63—Light-duty cleaning without scratching.

Sponge Cloth—Offers the absorbency of a sponge with the coverage of a wipe.

Copper-Coated—Long-lasting copper edges cut through tough soil.

Stainless Steel—Removes baked-on food from cooking equipment.

Scotch-Brite

FLOOR SCRUBBER

No-Scratch Floor Scrubber No. 7722—Removes heel marks and wax buildup.

Description	L	W	Item No.	Pkg. Qty.
Scouring Pads				
Cleansing No. 98	6 in	9 in	**4VZ82**	60
General Purpose No. 96	6 in	9 in	**2U643**	20
General Purpose No. 96CC	6 in	9 in	**21XL15**	10
General Purpose Green No. 9650	4 ½ in	3 in	**1CJ70**	80
Heavy-Duty No. 86	9 in	6 in	**1CJ74**	12
Pot 'n Pan No. 88	5 in	3 ½ in	**4WC73**	40
Power Pad No. 2000	5 ½ in	3 ⁵⁄₆₄ in	**4HN91**	20
Cleaning Pad No. 9000	4 in	5 ¼ in	**4HN85**	40
Purple Scour Pad No. 2020	4 ½ in	3 in	**1EKB6**	24
Scouring Pad No. 220	6 in	3 ⅞ in	**2JDB8**	24
No Scratch Scour Pad No. 622-10	6 in	3 ⅞ in	**403R56**	10
Dobie® Pad No. 720	4 ⅜ in	2 ⅝ in	**2JDB1**	24
Scrubber No. 7721	6 in	4 in	**2JDB9**	12
Natural Fiber	6 in	4 in	**21XL10**	3
Scrubbing Sponges				
Power Sponge No. 3000	2 ⅞ in	4 ½ in	**4HN92**	20
Scrub Sponge No. 74	6 in	3 ⅝ in	**2U642**	20
Scrub Sponge No. 63	6 in	3 ⅝ in	**2U641**	20
Natural Fiber	4 ½ in	2 ¹¹⁄₁₆ in	**21XL09**	3
Sponge Cloth	7 ⅘ in	6 ⅘ in	**21XL11**	2
Copper-Coated	3 in	1 ½ in	**21XL12**	3
Stainless Steel	3 ¾ in	3 ¾ in	**21XL13**	1
Stainless Steel	3 ¾ in	3 ¾ in	**53UD25**	12
Floor Scrubber				
No-Scratch Floor Scrubber No. 7722	6 in	4 in	**2JDC1**	12


No. 1EKB6


No. 4HN92



No. 2JDC1

Pumice Stones and Screens

TOUGH GUY

Reusable blocks and pads remove deposits, soils, and stains from most hard surfaces without marring and without the need for harsh chemicals. Safe for skin and for use around food equipment.

Description	Item No.
Grillmaster® Cleaner Stick, 5¾" x 1½" x 1½"	**12G793**
Grillmaster® Cleaning Brick, 5¾" x 2¾" x 2¾"	**12G794**
Pumie® Flexi-Scour Scouring Screen, 5½" x 4"	**12G795**
Pumie® Toilet Bowl Ring Remover with Handle, 5" x 1¼" x 1¼"	**12G796**
Pumie® Cleaner Stick, 5¾" x ¾" x 1¼"	**12G797**
Pool Blok® Cleaner Stick, 5¾" x 1½" x 1½"	**12G798**
Pool Blok® Pool Concrete/Tile Cleaner, Snaps into Standard Telescopic Poles, 6" x 1½" x 1½"	**12G799**


No. 12G796


No. 12G797

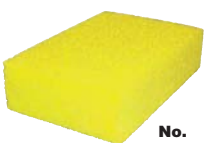
Cellulose and Smoke and Soot Sponges

TOUGH GUY

Cellulose—Durable sponges for quick clean-ups. Rinse easily for repeated use.

Smoke and Soot—Specially designed for dry removal of smoke and soot damage. One sponge cleans up to 100 sq. ft.

Color	L	W	Item No.	Pkg. Qty.
Cellulose Sponges				
Pink	3⅝"	6"	**2NTH4**	2
Yellow	4³⁄₁₆"	6"	**2NTH5**	1
Yellow	4⁵⁄₁₆"	7½"	**2NTH6**	1
Smoke and Soot Sponge				
Tan	3"	6"	**2RMZ8**	1


No. 2NTH5


No. 2RMZ8



HiFlo™ nLite Waterfed Kits

Professionally clean windows and facades. HiMod carbon master poles decrease weight and increase rigidity. Kits include pole system, radius brush, 65-ft. hose, spare water jets, 8" gooseneck, and carrying case.

Description	Mfr. Model	Item No.
33-ft. Pole System	NLKU6	**21HN73**
55-ft. Pole System	NLKU3	**21HN74**





Window Washers with Handle

TheOriginalStrip®—Scrub windows and other flat surfaces prior to squeegeeing. Replacement sleeve is made of plush woven fabric. Include handle.

Swivel Strip T-Bar—Swivels freely or can be locked into 7 positions. Sleeve not included.

ErgoTec® T-Bar—T-bar handle with 2-component, ergonomically designed grip. Water wells provide excellent water retention. Sleeve not included.

Sprayer on a Belt—Sprayer bottle hooks to belt to alleviate strain on back, arms, and wrist. Maneuverable trigger can even spray upside down. 33-oz. bottle.

BucketOnABelt™—Holds ½ qt. of cleaning fluid, 2 squeegees, 1 strip washer, and 1 scraper.

Description	Size	Mfr. Model	Item No.
Window Washers			
TheOriginalStrip®	14"	WC350	**3U434**
Squeegees			
Swivel Strip T-Bar	14"	SV350	**2RNA2**
ErgoTec® T-Bar	10"	EH250	**2RNA8**
ErgoTec® T-Bar	18"	EH450	**2RNA3**
Window Washers			
TheOriginalStrip®	18"	WC450	**3U435**
Sprayer on a Belt	33 oz.	SOABG	**2RNA7**
BucketOnABelt™	—	BB010	**2RNA4**
Replacement Sleeves			
Sleeve for No. 5V350	14"	WS350	**3U436**
Sleeve for No. 3U435	18"	WS450	**3U437**



Straight and Curved Blade Rubber Floor Squeegees

Neoprene—Nonabrasive rubber for use with petroleum-based products. Black color.

Nonmarking—Resists most vegetable and animal materials, oil, and fats. Gray color.

Foam—For use on uneven and smooth surfaces for quick drying results. Black color.

Size	STRAIGHT BLADE Item No.	CURVED BLADE Item No.	REFILL Item No.
Neoprene			
18"	**1ZBZ3**	—	**1ZCA5**
24"	**1ZBZ4**	**1ZBZ1**	**1ZCA6**
36"	**1ZBZ5**	**1ZBZ2**	**1ZCA7**
Nonmarking			
18"	**1ZBZ8**	—	**1ETZ7**
24"	**1ZBZ9**	**1ZBZ6**	**1ETZ8**
36"	—	**1ZBZ7**	**1ETZ9**
Foam			
18"	**1ZCA1**	—	**1EUA1**
22"	**1ZCA2**	—	—
24"	**1ZCA3**	—	**1EUA2**
30"	**1ZCA4**	—	—







Institutional Floor Squeegees and Handle

Squeegees—All-plastic head and 1-pc. molded frame feature a heavy-duty 3/4" neoprene blade. No. 1NFG5 incorporates a full-length scrub brush into the frame. Threaded compression holes attach squeegee head to standard, square-cut handles.

Handle—Structural honeycomb ribs provide maximum strength and safety for correctional and intense use environments. Uses no metal parts and will not rust.

Description	Item No.
21" Squeegee Head	**1NFG4**
21" Squeegee Head with Scrub Brush	**1NFG5**
56" Handle	**1NFF6**



Floor Squeegees with Handle

Nonmarking, flexible rubber blade and a rugged metal frame for long life. Include a 60"L wood handle.

Blade Count	Blade W	Blade Shape	Item No.
Single	24"	Straight	**64XF86**
	24"	Curved	**64XF89**
Double	22"	Straight	**64XF88**
	18"	Straight	**64XF90**



Floor Squeegees with Handle

Durable blade and tough steel frame. Include a 60"L wood handle.

Blade Material	Blade W	Blade Shape	Item No.
Foam Rubber	18"	Straight	**59JM34**
	22"	Straight	**59JM35**
Rubber	36"	Straight	**59JM46**
Neoprene	24"	Straight	**59JM36**
	24"	Curved	**59JM37**
	18"	Straight	**59JM47**



Disaster Cleanup Floor Squeegees with Handle

Double-edged neoprene blade with heavy-duty bracing removes heavy liquids such as mud. Include a 66"L handle.

Size	BLADE Item No.	REFILL Item No.
24"	**3PYV3**	**3PYV4**
36"	**3PCA3**	**3PYV2**



Handheld Floor Squeegees

Clamp-style frame has wing nuts and lock washers. Ideal for applying fluids and coating materials.

Description	Size	Item No.
Round Edge	8"	**3PCA4**
Square Edge	8"	**3PCA5**



Window Squeegees

TOUGH GUY®

Stainless Steel—Use as handheld or with standard taper-tip poles. Black rubber grip. Rubber blade and channel assembly are easily adjustable and removable.

Automobile—Includes scrubbing sponge and black rubber blade.

Ergonomic Silicone—Soft silicone blade conforms to most surfaces and will not scratch.

UNGER®

Pro Stainless Steel—Quick-release handle has ergonomic rubber grip. Include channel and soft rubber blade.

GoldenClip® Brass—Adjustable screws hold clipped channel. Include handle, channel, and soft rubber blade.

ErgoTec® Swivel Loc Squeegee—2-component handle features quick-release. Conform to irregularly shaped windows. Channel not included.

VisaVersa®—Washer and squeegee in one is ideal for high window cleaning. Sleeve and rubber included.

Description	Blade W	Brand	Mfr. Model	Item No.
Squeegees				
Stainless Steel	12"	Tough Guy	—	**1EUB4**
	18"	Tough Guy	—	**1EUB5**
Automobile	8"	Tough Guy	—	**1EUB9**
Ergonomic Silicone	10½"	Tough Guy	—	**1EUC2**
Pro Stainless Steel	12"	Unger	12976	**3U424**
	18"	Unger	PR450	**38HY08**
GoldenClip® Brass	12"	Unger	GS300	**38HY04**
	18"	Unger	12979	**3U427**
ErgoTec® Swivel Loc, 0° Straight Head	—	Unger	LS000	**2RMZ9** *
ErgoTec® Swivel Loc, 30° Angled Head	—	Unger	LA000	**2RNA1** *
VisaVersa®	14"	Unger	VP350	**3U428**
	18"	Unger	VP450	**3U429**
Refills				
Rubber for Tough Guy Squeegees	12"	Tough Guy	—	**1EUB6**
	14"	Tough Guy	—	**1EUB7**
	18"	Tough Guy	—	**1EUB8**
Rubber for Unger Squeegees	12"	Unger	RT300	**3U430**
	14"	Unger	RT350	**3U431**
	18"	Unger	RT450	**3U432**
Synthetic Repl. Sleeve for Any 14" Unger Window T-Bar	—	Unger	MS350	**3RDH8**
Microfiber Repl. Sleeve for Any 14" Unger Window T-Bar	—	Unger	NS350	**3RDH9**

Channel sold separately.

No. 2CJP7

Handles

1.5° Taper Aluminum—Lightweight, yet strong enough for industrial applications. Available knocked down.

3.0° Taper Aluminum—Easy-use extension features Acme threads.

Description	Item No.
1.5° Taper Tip	2CJP7
3-Pc. 1.5° Taper Tip, Knocked Down	5DUV0
3.0° Taper	2CJP8



Trigger Grabbers

Ideal for picking up bottles, cans, and garbage outdoors, as well as retrieving out-of-reach items. Durable steel construction with powerful claws and ergonomic grip. Trigger grip models have a rotating head and magnetic tip.

Nos. 3UP50 and 1VCE6: Sharp tool pierces paper debris and cans without bending. Durable, lightweight steel tubing with ergonomic nylon grip.

L	Mfr. Model	Item No.
Tough Guy Trigger Handle		
32"	13R142	13R142
Unger Nifty Nabber® Trigger Handle Grip		
24"	NT060	2NDR1
32¾"	NT080	2NDR2
36"	NT090	2NDR3
Unger Nifty Nabber® Squeeze Handle Pro		
20½"	NN400	5DUU8
36"	NN900	3UP49
51"	NN140	5PE69
96"	NN960	5DUU9
Unger Trash Picker		
42"	PPPP0	3UP50
Unger Trash Picker Replacement Pin for No. 3UP50 (10/Pkg.)		
6¼"	15995	1VCE6



Fixi-Clamp®

Adjustable clamp tightly grips mops, brushes, sponges, rags, and chamois.

Mfr. Model	Item No.
FIXI0	3U451



2-Section Extension Pole No. 3U442

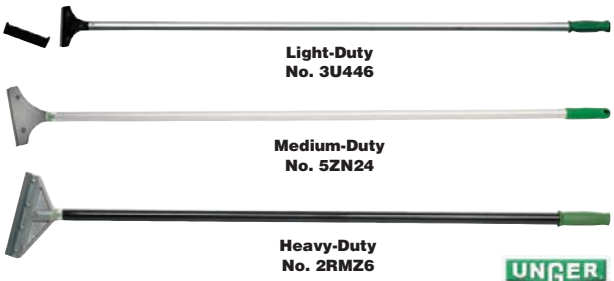
Extension Poles and Adapters

OptiLoc™ Telescopic—Strong anodized aluminum poles are ideal for high window cleaning, dusting, and light bulb changing. Durable nylon locking collars lock and loosen in ½ turns.

Tele-Plus™—5-section modular design offers versatile, multiple-length use.

Cranked Joint Angle Adapter—Holds a variety of tools and snaps into all Unger telescopic poles. Adjusts cleaning tools at any angle up to 300° for hard-to-reach applications.

Description	L	Mfr. Model	Item No.
Telescoping Poles			
OptiLoc Telescopic, 2-Section	96"	EZ250	3U442
OptiLoc Telescopic, 3-Section	144"	ED370	5DUU6
OptiLoc Telescopic, 2-Section	156"	EZ400	3U443
OptiLoc Telescopic, 3-Section	216"	ED550	3U444
Tele-Plus 5-Section	360"	TF900	4GU49
Adapter			
Cranked Joint Angle Adapter	11½"	CJA00	2RNA6



Floor Scrapers

Light-Duty Floor—48" lightweight aluminum handle with ergonomic grip and 4" zinc alloy head.

Medium-Duty Floor—Lightweight 60" aluminum handle with angled 6" zinc alloy head for industrial use.

Heavy-Duty Floor—Removes heavy-duty adhesives, tile, and carpet from floors. 60" handle with ergonomic grip, and 8" angled zinc alloy head.

Description	Mfr. Model	Item No.
Light-Duty Scraper with 4" Blade	LH12C	3U446
4" Replacement Blades for No. 3U446 (100/Case)	14421	3U447
Medium-Duty Scraper with 6" Blade	MDSC0	5ZN24
6" Replacement Blades for No. 5ZN24 (10/Pkg.)	MDSB0	5ZN23
Heavy-Duty Scraper with 8" Blade	HDSS0	2RMZ6
8" Replacement Blades for No. 2RMZ6 (10/Pkg.)	15993	2RMZ7



Handheld Scrapers

Use the blunt edge for delicate, uneven floor surfaces and the razor edge for scraping gum, paint, tape, and caked-on dirt off smooth, hard surfaces such as tile floors and windows.

ErgoTec® Scraper—Ergonomic nylon grip and 4" handle.

The Brute—Effective for multiple surfaces, and features an ergonomic grip. Reversible 4" blade and 12" handle.

MaxiScraper —Lightweight yet durable with ergonomic rubber nonslip comfort grip. Change blades with the push of a button. Safety cover snaps securely over blade.

Pro Trim 10—Fits in your hand or pocket. Textured surface and nonslip material for cold and wet conditions. Integrated blade guard locks open or closed for safe storage. Has two sharp edges.

ErgoTec® Safety—Locking mechanism prevents blade from sliding out while working. Features a single-edge blade.

Description	Mfr. Model	Item No.
Handheld Scrapers		
ErgoTec® Scraper	SH00C	3U445
The Brute	SH25C	2RMZ3
MaxiScraper	STMAX	1NYH2
Pro Trim 10	TX100	1NYH3
ErgoTec® Safety	SR040	2RMZ4
Replacement Blades		
Replacement for No. 2RMZ4 (100/Pkg.)	SRB10	2RMZ5
Replacement for No. 1NYH3 (10/Pkg.)	TR100	5DUV1



No. 3UP47



No. 3UP45

Bulb Changers

- For standard, flood, and CFL bulbs
- Pole sold separately

Light Bulb Changer—Six steel fingers securely grip most bulbs. ⅔ of steel finger is rubber-coated.

Flood Bulb Changer—Six plastic suction cups adhere tightly to smooth recessed flood lights, round, beveled, and flat bulbs, and bulbs 300 watts or larger. Fully insulated.

Broken Bulb Remover—Includes a clear plastic dish to catch broken glass. Fully insulated.

Description	Mfr. Model	Item No.
Light Bulb Changer	BS010	3UP46
Flood Bulb Changer	FS000	3UP47
Broken Bulb Remover	BEBE0	3UP45

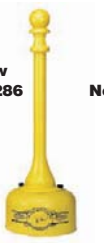

Silver
No. K2498


Tan
No. D0201


Black
No. D0199


No.
1LWT4


Black
No. D0284


Yellow
No. D0286


Tan
No. D0289


Black
No. D0202

Free-Standing Cigarette Receptacles


Charcoal
No. K2499


Black
No. D0203

Cap.	H	W	Base Dia.	No. of Openings	Opening Size	Material	▶CHOOSE: Color	Brand	Item No.	
Cigarette Receptacles										
¼ gal.	41"	14½"	14½"	1	14½"	Steel	Black, Silver	Tough Guy	**K2498**	*
1 gal.	30"	11"	11"	2	1½"	Polyethylene	Black, Green, Pewter, Tan, Terra Cotta	Justrite	**D0291**	†
1 gal.	39½"	12¼"	12¼"	2	1 1/16"	Galvanized Steel, Plastic	Brown, Tan	Rubbermaid	**D0201**	†
1 gal.	38¼"	14"	13"	2	1"	Galvanized Steel, Plastic, Steel	Black, Sandstone	Rubbermaid	**D0199**	†
1¼ gal.	37¾"	15¼"	15¼"	2	¾"	Plastic	Brown, Gray, Tan	Eagle	**D0288**	†
1¼ gal.	39½"	15½"	15½"	1	360 Degrees	Aluminum, Stainless Steel	Silver	Rubbermaid	**1LWT4**	†
1½ gal.	42¼"	16¾"	16½"	3	2½"	Stainless Steel	Black, Silver	Rubbermaid	**D0284**	†
2 gal.	35"	11"	11"	2	¾"	Galvanized Steel	Yellow, Tan	Eagle	**D0286**	†
2½ gal.	34"	11½"	11½"	2	1½"		Red	Justrite	**3RYZ3**	†
4 gal.	43¼"	17¼"	17¼"	2	¾"	Plastic	Black, Brown, Gray, Tan	Eagle	**D0289**	†
4 gal.	38½"	16½"	16½"	2	1½"	Polyethylene	Black, Green, Pewter, Tan, Terra Cotta	Justrite	**D0292**	†
4 gal.	38"	12"	12"	1	2"		Black, Gray, Tan	Justrite	**D0293**	†
4 gal.	39"	13"	13"	4	3" x 1¾"	Aluminum, Stainless Steel	Black	Rubbermaid	**1LWT6**	†
4 gal.	39"	13"	13"	4	3" x 1¾"		Pewter, Brown	Rubbermaid	**D0202**	†
4½ gal.	39"	16"	16"	1	1¼"	Steel	Charcoal, Black	Tough Guy	**K2499**	
4½ gal.	39"	16"	16"	1	1¼"		Charcoal, Black	Tough Guy	**K2500**	‡
5 gal.	40"	12"	12"	2	¾"	Galvanized Steel	Yellow, Tan	Eagle	**D0287**	†
5 gal.	38"	11½"	11½"	2	1½"	Stainless Steel	Red	Justrite	**3RYZ4**	†
6¾ gal.	41½"	15"	15½"	3	360 Degrees	Aluminum, Stainless Steel	Black, Aged Bronze, Antique Pewter	Rubbermaid	**D0203**	†
Weight Ring for D0201										
—	1"	12½"	—	—	—	Coated Steel	Black	Rubbermaid	**3NB44**	

** Include liner and key. † FM approved. ‡ Include lock, cable and in-ground anchor.*


No.
11C824


No.
1LWT5


No.
6UGC9


No.
5LY31

Wall-Mount Cigarette Receptacles

Cap.	H	W	Base Dia.	No. of Openings	Opening Size	Material	Color	Brand	Item No.	
—	5"	8"	—	1	—	Coated Steel	Silver	Tough Guy	**1ECK8**	
¼ gal.	10"	2½"	6"	1	5"	Metal	Gray	Tough Guy	**11C824**	
¼ gal.	12½"	3¾"	9½"	4	4"	Stainless Steel	Silver	Tough Guy	**12V180**	*
¼ gal.	18"	11½"	12¾"	1	360 Degrees	Aluminum, Stainless Steel	Silver	Rubbermaid	**1LWT5**	†
½ gal.	18"	10"	10"	16	1"	Stainless Steel	Silver	No Butts Bin Co.	**6UGC9**	*
½ gal.	18"	10"	10"	16	1"	Steel	Green	No Butts Bin Co.	**6UGD0**	*
½ gal.	18"	10"	10"	16	1"		Black	No Butts Bin Co.	**6UGD1**	*
¾ gal.	14"	2½"	7 ½"	1	6½"	Metal	Gray	Tough Guy	**11C825**	
1½ gal.	12½"	10"	10"	2	1 1/16"	Galvanized Steel	Black	Rubbermaid	**5LY31**	‡
1½ gal.	12½"	10"	10"	2	—	Stainless Steel	Silver	Rubbermaid	**9JAR0**	‡

** Include liner and key. † FM approved. ‡ Include liner, lock, (2) recessed Stainless Steel extinguishing screens, mounting hardware and (2) keys.*


No.
3VNR1


No.
4PGG8


Brown
No.
D0198

Round Trash Cans with Ashtray

Top Type	Cap.	H	Width/ Diameter	Material	▶CHOOSE: Color	Brand	Item No.
Flat with Side Opening	3½ gal.	19½"	12½"	Plastic	Black	Rubbermaid	**3VNR1**
	12 gal.	28"	15"	Stainless Steel	Gray	Rubbermaid	**8UYJ7**
	12 gal.	28¼"	15"	Steel	Silver	Tough Guy	**4PGG8**
Dome with Push Door	25 gal.	42¼"	18"	Plastic	Tan, Brown	Rubbermaid	**D0198**


No. 48L067


No. 3U938


No. 48L066


No. 48L068

Stainless Steel Ashtrays

Description	Cap.	H	W	Base Dia.	Color	Brand	Item No.
Floor Model with Removable Sand Top	1½ gal.	20"	10"	10"	Black	Tough Guy	**48L067**
Floor Model with Removable Chrome Top	2 gal.	19½"	11½"	11½"	Black	Rubbermaid	**3U938**
Floor Model with Removable Flip Top	13½ gal.	20"	10"	10"	Black	Tough Guy	**48L066**
Pedestal with Removable Flip Top and Stainless Steel Blades	1¾ gal.	22"	10"	8"	Chrome	Tough Guy	**48L068**


Lid Only
No. 4T217
and
Drum Only
No. 5T262


Black
No. E3932

Cigarette Receptacle Drums and Lids

Description	Cap.	H	W	Base Dia.	Material	▶CHOOSE: Color	Item No.		LID ONLY Item No.
Drum Only	30 gal.	29"	19¼"	19¼"	Steel	Gray	**1BW41**		**1BW40**
Drum Only	55 gal.	34½"	34½"	23¾"	Steel	Gray	**5T262**	*	**4T217**
Drums with Lid	4½ gal.	14¼"	14¼"	12¼"	Steel	Black, Gray, White	**E3930**	*	
Drums with Lid	6 gal.	17¾"	12¼"	12¼"	Aluminum, Steel	Black, Gray, White	**E3932**	*	

** FM approved, UL Listed.*

Rubbermaid Commercial Products

Plaza™ Series Outdoor Trash Cans

Fully covered top and spring-loaded doors hide waste, reduce odors, and keep out pests and rodents. Slide-out bag holder supports bag and keeps it open allowing workers to change bags without bending. A compatible rigid liner can be used in place of the bag holder to make this plastic container FM approved.

Ashtray/Dome Top
No. 4TJ50



Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Plaza® Jr.						
Dome with Push Door	35 gal.	41"	20¼"	20¼"	Beige, Black, Green	D0243
Ashtray/Dome with Push Door		41"	20¼"	21¼"	Black	5MU52
Plaza®						
Dome with Push Door	50 gal.	42"	25¼"	24¾"	Beige, Black, Green	D0245
Ashtray/Dome with Push Door		42"	25¼"	24¾"	Beige	4TJ50

Rubbermaid Commercial Products

Ranger® Series Outdoor Trash Cans

Weather-resistant trash cans are suitable for collecting waste in areas exposed to rain, snow, and extreme temperatures. Hinged lid provides access to trash bag and hinged doors hide contents. Use in high-traffic areas such as parks, food courts, and stadiums.

Canopy Top Trash Can
Black
No. D0237
With Optional Weighted Base
Black
No. D0241



Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans						
Dome with 2 Push Doors	35 gal.	41"	21½"	21½"	Beige, Black	D0235
Dome with 2 Push Doors	45 gal.	41½"	24¾"	24¾"	Beige, Black	D0236
Canopy	45 gal.	41½"	24¾"	24¾"	Beige, Black	D0237
Canopy	65 gal.	49¼"	24¾"	24¾"	Black	2FTF5
Dome with Push Door	65 gal.	49¼"	24¾"	24¾"	Beige, Black	D0238
Accessory						
Weighted Base	45 to 65 gal.	6"	24½"	24½"	Beige, Black	D0241

TOUGH GUY

Streetscape Outdoor Trash Cans

Heavy-duty steel slats around the outside with an integrated leakproof liner for collecting waste. All tops help funnel trash toward the opening.



Green
No. J6409



Black
No. 22N330

Top Type	Cap.	H	Width/ Diameter	▶CHOOSE: Color	Item No.
Funnel	35 gal.	33"	26"	Black, Brown	J6407
Canopy	35 gal.	42"	26"	Black, Brown, Green	J6409
Flat with Top Opening	45 gal.	37"	23"	Black	22N330

Rubbermaid Commercial Products

Street Basket Series Outdoor Trash Cans

Steel mesh sides resist rust and corrosion for collecting waste in harsh weather. The open top is accessible to passersby, making these trash cans a good choice for parks, city streets, and other high-traffic areas. The perforated bottom allows rain and other liquids to drain.

Black
No. D0205



Top Type	Cap.	H	Width/Diameter	▶CHOOSE: Color	Item No.
Open	45 gal.	33"	24"	Black, Gray	D0205

Classic Series Outdoor Trash Cans

Rubbermaid Commercial Products

Steel trash cans with perforated sides provide a professional appearance. They include a leakproof rigid liner to contain liquids and an open-top lid that hides the trash bag from sight. They are used in parks, at building entrances, and in parking garages for convenient trash disposal.

No. 2KDJ3



Top Type	Cap.	H	Width/ Diameter	Specific Container Material	BLACK Item No.	SILVER Item No.	STAINLESS STEEL Item No.
Flat with Top Opening	25 gal.	35½"	18"	Steel	2KDJ7	2KDJ5	—
Flat with Top Opening	51 gal.	35½"	24"	Steel	2KDJ8	2KDJ6	—
Flat with Top Opening	25 gal.	35½"	18"	Stainless Steel	—	—	2KDJ3
Flat with Top Opening	51 gal.	35½"	24"	Stainless Steel	—	—	2KDJ4

Rubbermaid Commercial Products

Aspen Series Outdoor Trash Cans

Decorative stone panels provide a finished appearance when collecting waste in outdoor areas, such as building entrances, parking garages, and storefronts. Powder-coat finish is UV-resistant to resist fading and damage caused by exposure to changing weather. Fire-resistant cans include leakproof, rigid plastic liners. Use with a trash bag to keep cans clean and ease trash pickup.



No. 3THU6

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Canopy	38 gal.	40"	26"	26"	Brown	3THU6
Canopy	45 gal.	40"	26"	26"	Brown	3THV5

TOUGH GUY

Round Steel Mesh Outdoor Trash Cans

Made of rust-resistant steel to collect waste in harsh conditions, including wind, rain, and snow. They provide a professional appearance in parks, office parks, storefronts, and outdoor walkways.

No. 13P564



Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Flat with Top Opening	33 gal.	32"	18¼"	Black	5UJC2
Dome	34 gal.	44"	18"	Black	13P564
Dome	40 gal.	39"	24"	Black	13P565

Rubbermaid Commercial Products

Americana Series Metal Outdoor Trash Cans

Open top provides hands-free disposal. Powder-coated steel maintains its appearance when exposed to weather and sunlight. Cans are heavy to help prevent theft and keep cans in place during harsh weather conditions. Adjustable legs allow cans to be placed on uneven surfaces.



No. 2GWJ6

Top Type	Cap.	H	Width/ Diameter	▶CHOOSE: Color	Item No.
Flat with Top Opening	36 gal.	32½"	29"	Bronze	2GWJ6
Flat with Top Opening	36 gal.	32½"	29"	Black	9HT32

Rubbermaid Commercial Products

Landmark Series® Outdoor Trash Can Frames and Panels

Plastic frames have open sides and a leakproof rigid liner. Add decorative rock panels to suit the application or environment. All four sides are open for tossing trash. Use with a trash bag to help keep liners clean and ease trash collection. Bolt-down base prevents tipping or moving. Rugged construction withstands exposure to weather.

Funnel Top Frame
(Stone Panels Sold Separately)
No. 5M841



Top Type	Cap.	H	Width/ Diameter	D	Color	FRAMES Item No.	PANELS Item No.
Canopy	50 gal.	46½"	26"	26"	Sable	5W767	5W768
Ashtray/Canopy	35 gal.	40"	26"	26"	Sable	5M833	5M856
Ashtray/Canopy	50 gal.	46½"	26"	26"	Sable	5M843	5W768
Funnel	35 gal.	30½"	26"	26"	Sable	5M841	5M856

Rubbermaid Commercial Products

Glutton® Series Square Plastic Outdoor Trash Cans and Tops

Hold more trash than round cans with a similar footprint. Heavy-duty plastic resists fading, cracking, and denting, and are lighter and more dent-resistant than metal cans making them easier to move. Collect and contain waste with or without trash bags. Cans and tops sold separately.

Description	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Glutton® Open Top Trash Cans, 56-gal. Cap.	31"	25½"	22¾"	Brown, White	D0248
Glutton® Canopy Tops w/Push Doors, For Use with D0248	13"	23"	—	Brown, Red	D0246
Glutton® Canopy Tops w/o Doors, For Use with D0248	13"	23"	—	Brown, Red	D0247

Canopy Top w/ Push Doors Red No. D0246



Trash Can White No. D0248

DOGIPOT® Pet Waste Stations

Place in common areas where people exercise their pets, and dog training areas for convenient access to a trash receptacle and pet waste bags. No. 3VLL5 Pet Station includes pet sign, roll bag dispenser, telescopic mounting post, and pet waste container for use with No. 8XD05. Nos. 9LDM5, 8NKC5, and 8ZCE8 roll bags are also available. No. 3VLN8 container holds No. 8XD05 roll bags. No. 36MX74 is a versatile aluminum header pack bag dispenser for use with No. 36MX75.

Description	Cap.	W	L	H	Item No.	Pkg. Qty.
Station						
Pet Waste Station	10 gal.	14"	11½"	78"	3VLL5	1
Pet Waste Container	10 gal.	—	—	23"	3VLN8	1
Pet Waste Bag Dispenser	48 oz.	9 13/32"	15½"	15½"	36MX74	1
Bags						
200 Bags per Roll	8 oz.	8"	13"	13"	9LDM5	10
200 Bags per Roll	8 oz.	8"	13"	13"	8NKC5	20
200 Bags per Roll	8 oz.	8"	13"	13"	8ZCE8	30
Header - 100 Bags per Pack	8 oz.	8"	13"	13"	36MX75	20
Interleaf - 50 Bags per Roll	15 gal.	27½"	29"	29"	8XD05	1



No. 3VLL5

CrownProducts, LLC

No. 19XZ87

Poopy Pouch Pet Waste Station

Pet waste stations combine a bag dispenser and trash can for placement in common areas where people exercise their pets. Weather-resistant station includes 8-ft. steel channel post, 10-gal. steel waste receptacle with hinged steel lid and bag retainer bands, steel bag dispenser with security lock, 800 leakproof waste bags (4 boxes of 200 bags each), and a 12" x 18" steel sign ("Please Clean Up After Your Dog"). Use with replacement bags No. 19XZ86.

Description	Cap.	W	L	H	Item No.	Pkg. Qty.
Station						
Pet Waste Station with Channel Post	10 gal.	12½"	12½"	96"	19XZ87	1
Bags						
Lemon Scented, 400 Bags per Roll	¾ gal.	7"	15"	15"	4ACD2	6
Unscented, 200 Bags per Roll	¾ gal.	8"	—	13"	19XZ86	10



Rubbermaid Commercial Products | Glaro

Round Metal Trash Cans

Metal provides a finished appearance and resists odors and staining. Cans are rust-resistant, won't crack in cold weather, and won't be chewed by pests or rodents.

Top Type	Cap.	Width/ Diameter	H	Brand	Item No.
Aluminum					
Flat with Top Opening	21 gal.	18"	32"	Rubbermaid	2KDP7
	30 gal.	20"	34½"	Rubbermaid	43WY88
	55 gal.	24"	35"	Rubbermaid	2KDP8
Swing	16 gal.	15"	33"	Glaro	34AW90
Galvanized Steel					
Open	20 gal.	18"	23¼"	Tough Guy	2PYX5
	31 gal.	21"	27"	Tough Guy	2PYW6
Stainless Steel					
Flat with Top Opening	18 gal.	15"	28"	Tough Guy	48L069
Dome	18 gal.	15"	31"	Tough Guy	48L070
Funnel	33 gal.	19½"	32"	Tough Guy	48L071
Steel					
Flat with Top Opening	15 gal.	10"	27¾"	Tough Guy	4PGG9



No. 2KDP7



No. 2PYX5

Rubbermaid Commercial Products | JUSTRITE

Fire-Resistant Metal Trash Cans

Use indoors and outdoors to collect waste in office buildings, parking garages, walkways, and other high-traffic areas. Metal doesn't absorb odors, resists fire and corrosion, and will not warp when used in hot or sunny locations or crack in cold weather. Open-top design fits under a desk or table or against a wall to save space.



Almond No. D2123



No. 4PGH1

Container Shape	Top Type	Cap.	Width/ Diameter	H	▶CHOOSE: Color	Brand	Item No.
Aluminum							
Round	Flat with Top Opening	35 gal.	18"	32"	Silver	Rubbermaid	4HGR8
Steel							
Rectangular	Open	24 gal.	21"	30"	Almond, Black	Rubbermaid	D2123
Round	Funnel	12 gal.	15"	29¾"	Red/Gray	Justrite	3VLD4
Round	Funnel	15 gal.	15"	25¾"	Black, Gray, White	Justrite	E7284
Round	Flat with Top Opening	35 gal.	17¾"	32¼"	Silver	Tough Guy	4PGH1

Round Metal Wastebaskets

Mesh design allows air flow in tight indoor locations. Durable metal construction with professional looking enamel finish resists odors and staining.

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Open	7 gal.	14¼"	13¼"	Gray	11C815
Open	7 gal.	14¼"	13¼"	Brown	11C816
Open	7 gal.	14¼"	13¼"	Black	11C817
Open	11½ gal.	17"	15"	Gray	11C818
Open	11½ gal.	17"	15"	Brown	11C819



No. 11C815

Square Metal Trash Cans

No. 22N320

Higher capacity than round cans that use the same amount of floor space, these square trash cans can be placed in a corner or flush against a wall. Multiple cans can be placed adjacent to each other without a gap. Include leakproof rigid plastic liner.

Top Type	Cap.	H	Width/ Diameter	D	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.
Flat with Top Opening	24 gal.	30"	15¾"	15¾"	5UJD1	5UJD4	5UJD2	5UJD3
Flat with Top Opening	36 gal.	35½"	18½"	18½"	22N320	22N323	22N321	22N322

Rectangular Metal Trash Cans

No. 22N303

Taller with a larger capacity than wastebaskets. The flat sides allow them to be placed flush with the wall, making them a good choice for small spaces or high-traffic areas where waste is collected. Metal is rust-resistant and does not absorb odors.

Top Type	Cap.	H	Width/ Diameter	D	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.
Flat with Top Opening	17 gal.	35½"	18¼"	15"	22N299	22N303	22N301	22N302

Lightweight Steel Mesh Metal Wastebaskets

Rubbermaid Commercial Products

Smaller capacity trash receptacles for indoor use against a wall or under a desk. Mesh sides provide air flow. No-snag, curled rim protects clothing and the vinyl base ring protects floors. Steel construction is durable and resists odors and staining.



No. 1LYL7



No. 1LYL9

Container Shape	Top Type	Cap.	H	Width/ Diameter	D	BLACK Item No.	SILVER Item No.
Rectangular	Open	7½ gal.	16"	8½"	16"	1LYL7	—
Round	Open	5 gal.	14"	11½"	—	1LYL8	1LYL9



Black
No. D2119



Beige
No. D2117



Gray
No. F9111

Fire-Resistant Wastebaskets

Steel open-top wastebaskets collect and contain waste under desks, in offices and waiting rooms, or wherever small-capacity trash containers are needed indoors. Durable steel resists odors and staining. Fiberglass wastebaskets have a narrow, open-top design to save floor space. Fiberglass construction resists fire, chipping, and denting; will not rust.

Material	Cap.	▶CHOOSE: Color	H	Width/ Diameter	D	Brand	Item No.
Round							
Steel	6½ gal.	Black, Gray, Beige	14½"	13½"	—	Rubbermaid	**D2119**
Rectangular							
Fiberglass	1½ gal.	Beige	10"	6¼"	6½"	Tough Guy	**4PGL2**
Fiberglass	3½ gal.	Beige, Black, Gray	12¼"	8¼"	8¼"	Tough Guy	**D2117**
Fiberglass	7 gal.	Beige, Black, Gray	15¼"	10½"	10½"	Tough Guy	**D2118**
Fiberglass	10 gal.	Beige	20"	15"	11¼"	Tough Guy	**4PGL9**
Fiberglass	3½ gal.	Beige, Black, Gray	12¼"	8¼"	11"	Rubbermaid	**F9111**
Fiberglass	7 gal.	Beige, Black, Gray	15½"	10½"	14½"	Rubbermaid	**F8449**

Rectangular Plastic Wastebaskets

Smaller to fit under a table or desk or against a desk or wall without sacrificing foot space. Plastic is dent-resistant and won't break or rust.

Description	Cap.	W	H	▶CHOOSE: Color	Item No.
Vanity	1-6/7 gal.	6¾"	10"	Beige	**4PGN1**
Small	3½ gal.	12"	12‘‘	Black	**D2128**
Small	3½ gal.	12"	8"	Beige, Gray	**D2128**
Medium	7 gal.	14½"	15"	Gray, Beige, Black	**F9113**
Medium	7 gal.	10 13/64"	15¼"	Black	**D2129**
Medium	7 gal.	10½‘‘	15¼"	Beige, Gray	**D2129**
Large	10 gal.	12⅝‘‘	18¼"	Black, Beige, Gray	**D2131**



Gray
No. D2128

Half-Round Metal Wastebaskets

These stainless steel wastebaskets can be placed flush against a wall to save floor space. Collect and contain waste in hallways, break rooms, meeting areas, and other locations where floor space is limited.

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Flat with Side Opening	9 gal.	32¼"	17¾"	8¾"	Silver	**4PGG6**
	9 gal.	32¼"	17¾"	8¾"	Black	**4PGG7**



No. 4PGG7

Recessed Metal Trash Cans for Bathrooms

Recessed trash cans install in wall to save bathroom floor space. Stainless steel won't absorb odors, can be sterilized, and provides a finished appearance. An integrated opening allows a towel dispenser to be installed.

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Flat	5½ gal.	59"	15"	Silver	**468G38**
Flat	7 gal.	61"	15"	Silver	**468G37**
Flat	10 gal.	61½"	16¾"	Silver	**468G39**
Open	10 gal.	56"	17¼"	Silver	**2NY14**
Open	9½ gal.	60"	17¼"	Silver	**2NY15**



No. 2NY14

Silhouettes Metal Trash Cans

Contemporary trash cans have flat top openings and feature a perforated pattern that blends with modern facilities and environments. Metal is rust-resistant and does not absorb odors. Half-round and rectangular cans are made of fire-resistant, perforated metals.

Material	Cap.	H	Width/ Diameter	D	BLACK Item No.	SILVER Item No.
Fire-Resistant Half-Round						
Stainless Steel	12 gal.	32"	17½"	8¾"	—	**2KDT5**
Steel	12 gal.	32"	17½"	8¾"	**2KDT6**	**2KDT7**
Fire-Resistant Rectangular						
Stainless Steel	22½ gal.	30"	12"	24"	—	**2KDR5**
Stainless Steel	13 gal.	30"	9¾"	19¼"	—	**2KDR4**
Steel	22½ gal.	30"	12"	24"	—	**2KDT1**
Steel	13 gal.	30"	9¾"	19¼"	—	**2KDR9**
Square						
Stainless Steel	16 gal.	30"	14¾"	14¾"	—	**2KDR1**
Stainless Steel	20 gal.	30"	18¼"	18¼"	—	**2KDR2**
Steel	16 gal.	30"	14¾"	14¾"	—	**2KDR6**
Steel	20 gal.	30"	18¼"	18¼"	**2KDT3**	**2KDR7**
Steel	24 gal.	30"	14¾"	14¾"	**2KDT2**	—
Steel	29 gal.	32½"	18½"	18½"	—	**2KDW6**
Steel	40 gal.	31½"	21½"	21½"	—	**2KDR8**



No. 2KDR1



No. 2KDW6



Gray
No. J2223



Blue
No. F8894



Gray
No. D5944



Gray
No. D5923

Heavy-Duty Plastic Trash Cans and Lids

BRUTE

Resist dents, cracking, fading, and corrosion. Use for general trash collection in back-of-house settings such as kitchens and janitorial facilities. They can be used with or without a trash bag. Match lids with the Brand and Capacity you need for the perfect fit. No. 6TUC1 converts any 32-gal. round Rubbermaid can below into a recycling container. See page 1558 for more recycling options.

Cap.	▶CHOOSE: Color	Brand	Item No.
Round Trash Cans			
10 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J6001**
10 gal.	Gray, White	Tough Guy	**D5942**
20 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J2222**
20 gal.	Blue, Gray, White, Yellow	Tough Guy	**D5943**
32 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J2223**
32 gal.	Blue, Gray, Red, White, Yellow	Tough Guy	**D5944**
44 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**D1926**
44 gal.	Blue, Red, White, Yellow	Tough Guy	**D5945**
44 gal.	Gray	Tough Guy	**5DMT9**
55 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J6002**
55 gal.	Gray	Tough Guy	**5DMU6**
"Inedible" Bilingual Round Trash Cans			
32 gal.	Gray	Rubbermaid	**3TB47**
44 gal.	Gray	Rubbermaid	**3TB48**
"USDA Condemned" Bilingual Round Trash Cans			
32 gal.	Yellow	Rubbermaid	**3TB90**
44 gal.	Yellow	Rubbermaid	**3TB91**
Square Trash Cans			
19 gal.	Beige, Gray	Tough Guy	**D2629**
28 gal.	Gray, Red, White	Rubbermaid	**D1928**
35 gal.	Beige, Gray	Tough Guy	**D2109**
40 gal.	Gray, White	Rubbermaid	**D1929**

Top Type	For Container Capacity	▶CHOOSE: Color	Brand	Item No.
Round Recycling				
Flat	32 gal.	Blue	Rubbermaid	**6TUC1**
Round				
Dome with Push Door	32 gal.	Blue, Gray, Red	Rubbermaid	**F8894**
Dome with Push Door	44 gal.	Blue, Gray, Red	Rubbermaid	**D1932**
Dome with Push Door	55 gal.	Gray, Red	Rubbermaid	**D1933**
Flat	10 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J6003**
Flat	10 gal.	Gray, White	Tough Guy	**D5925**
Flat	20 gal.	Black, Blue, Gray, Green, White, Yellow	Rubbermaid	**D1935**
Flat	20 gal.	Blue, Gray, White, Yellow	Tough Guy	**D5924**
Flat	32 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J2224**
Flat	32 gal.	Blue, Gray, Red, White, Yellow	Tough Guy	**D5923**
Flat	44 gal.	Black, Blue, Gray, Red, White, Yellow	Rubbermaid	**D1937**
Flat	44 gal.	Blue, Gray, Red, White, Yellow	Tough Guy	**D5922**
Flat	55 gal.	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	**J6004**
Flat	55 gal.	Gray	Tough Guy	**5DMX7**
Funnel	32 gal.		Rubbermaid	**5M809**
Square				
Flat	28 gal.	Gray, White	Rubbermaid	**D1938**
Flat	32 gal.	Gray, Red	Tough Guy	**D5921**
Flat	40 gal.	Gray, White	Rubbermaid	**D1939**

Scan. Order. Done.
Details on page A1.

Rigid Plastic Liners for Trash Cans

Use inside trash cans to hold trash bags and to receive waste.

Top Type	Cap.	H	Width/ Diameter	▶CHOOSE: Color	Item No.
Rectangular					
Open	42 gal.	29"	23¼"	Gray	**5M746**
Round					
Open	12 gal.	27¼"	10"	Gray	**4PGH3**
Open	22 gal.	30"	11¾"	Gray	**4PGH4**
Square					
Open	23 gal.	31"	16"	Beige, Gray, Brown	**D2124**
Open	25 gal.	31"	12¼"	Gray	**4PGH7**
Open	50 gal.	34"	12¼"	Gray	**4PGH5**



No. 4PGH5



No. 5W007



No. 6DMX9



No. 4HC22



No. 450Y39

Trash Can Dollies

Use to mount, secure, and keep cans in good working order. Wheeled trash can dollies provide a secure base for trash cans and transport cans around a facility without dragging or lifting. Anchor dollies secure to the ground to prevent cans from tipping.

Description	For Container Cap.	Load Cap.	H	Dia.	Color	Brand	Item No.
Round Quiet Trash Can Dolly	20 to 55 gal	250 lb	6 ½ in	18¼"	Black	Rubbermaid	**4NY79**
Round Trash Can Dollies	20 to 55 gal	250 lb	6 ½ in	18¼"	Black	Rubbermaid	**5W007**
	32 to 55 gal	300 lb	6 ¾ in	24"	Black	Tough Guy	**6DMX9**
Square Trash Can Dolly	36 gal	300 lb	6 ¼ in	—	Black	Rubbermaid	**4HC22**
Construction and Landscape Dolly with Handle	32 to 55 gal	250 lb	28 ½ in	—	Red	Rubbermaid	**450Y38**
Mutli-Surface Dolly with Handle	20 to 55 gal	250 lb	22 in	—	Red	Rubbermaid	**450Y39**
Dirt, Sand and Grass Anchor Dolly Kit	20 to 55 gal	250 lb	21 in	18"	Black	Rubbermaid	**450Y40**
Concrete Anchor Dolly Kit	20 to 55 gal	250 lb	18 in	18"	Black	Rubbermaid	**450Y41**

Half-Round Plastic Trash Cans

Place against a wall to save floor space in hallways, break rooms, and other places where space is limited. Plastic resists dents and won't rust or chip. An open top makes it easy to add trash and change trash bags. No. D2127 cans include rigid plastic liner. No. 4PGR5 dome push door top is made to fit these trash cans.



No. 4PGR5



Gray No. D2127

Description	Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans	Open	21 gal	28 ½ in	21 ½ in	9 in	Gray, Beige	**D2127**
Trash Can Top	Dome with Push Door		9 in	12 ½ in	12 ½ in	Black	**4PGR5**



3 No. 53CK42 Dollies Shown - Trash Cans and Lids Sold Separately



Yellow No. J6251

Slim-Profile Slim Jim® Rectangular Plastic Trash Cans, Lids, and Dollies

Plastic trash cans won't chip and resist dents and rust. Cans with venting channels help reduce the force needed to remove a full trash bag. Trash can lids are compatible with 23-gallon Slim Jim trash cans. Connectable dollies lock 2 or more cans together to move multiple units in 1 trip, or use individually.

Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans with Venting Channels						
Open	16 gal.	25"	11"	22"	Beige, Black, Blue, Brown, Gray, Green	**J6250**
Open	23 gal.	30"	11"	22"	Beige, Black, Gray	**D1941**
Open	23 gal.	30"	11"	22"	Blue, Brown, Green, Red, Yellow	**J6251**
Wall-Mounted, Fire-Resistant Trash Cans						
Dome with Push Door	15 gal.	32½"	11¾"	19½"	Beige, Brown	**D1943**

Description	For Container Capacity	Load Capacity	H	▶CHOOSE: Color	Item No.
Lids and Dollies					
Trash Can Lid	23 gal.	—	5"	Black, Gray, Tan	**F8416**
Connectable Container Dolly	16 to 23 gal.	200 lb.	10¾"	Black	**53CK42**
Container Dolly		100 lb.	9"	Gray	**49AJ51**



No. 4PGU1



Beige No. D2104

Slim-Profile Rectangular Plastic Trash Cans and Lids

Place flush against a wall or in a corner in breakrooms, copy rooms, and other areas with limited floor space. Plastic cans won't chip and resist dents and rust. Lids are compatible with Tough Guy brand cans to help contain waste and odors, keep out water, and keep pests from disrupting waste.

Top Type	Cap.	▶CHOOSE: Color	H	Width/ Diameter	D	Item No.
Trash Cans						
Open	16 gal.	Beige, Blue	25"	20"	11"	**D2104**
Open	16 gal.	Gray	25"	10¾"	11"	**D2104**
Open	23 gal.	Beige, Gray	29¾"	11¼"	20"	**D2105**

Description	Top Type	For Container Capacity	Lid Connection	No. of Openings	Color	H	Width/ Diameter	D	Item No.
Lids									
Trash Can Lids	Drop	23 gal.	Hinged	1	Gray	4¾"	11½"	11¾"	**4PGU1**
	Dome	23 gal.	Snap On	1	Gray	3"	11½"	11¾"	**4PGU2**
Bottle and Can Recycling Lids	Dome	23 gal.	Snap On	2	Brown	3"	11½"	22¼"	**4PGU3**
	Dome	23 gal.	Snap On	2	Green	3"	11½"	22¼"	**4PGU4**



No. 3BU49



No. 3BU48

Confidential Waste Trash Cans

A slot in the locking lid helps maintain privacy and keep documents secure until they can be disposed of according to regulations. Use indoors where medical, personal, or confidential documents are used or accessed.

Cap.	D	W	H	Color	Opening Closure Type	Item No.
Slim-Profile Slim Jim® Confidential Waste Trash Can						
23 gal.	11¼"	11"	30"	Gray	Snap-On	**3BU49**
Rollout Confidential Waste Trash Cans, Wheeled						
65 gal.	31¾"	25½"	48"	Gray	Lift Up	**3BU52**
95 gal.	35¼"	27½"	45½"			**3BU48**

Rubbermaid Commercial Products

Heavy-Duty Rectangular Plastic BRUTE® Rollout Trash Cans

No. 53PY26



Use for curbside trash pickup and in warehouses and other commercial facilities where trash is collected and transported. Treaded wheels keep the can from slipping when moved over slick or uneven surfaces. The attached lid opens fully to allow access to the entire can and keeps trash and odors contained when closed.

Cap.	D	W	H	BLUE Item No.	GRAY Item No.	RED Item No.
Include (2) Heavy-Duty Wheels						
32 gal.	32 21/64"	20 3/4"	37 1/4"	53PY26	53PY25	—
Include (2) Heavy-Duty Wheels, (2) Front Swivel Casters						
32 gal.	32 21/64"	20 3/4"	37 1/4"	53PY30	53PY29	—
50 gal.	34 1/2"	24"	39 3/4"	53PY36	53PY35	—
65 gal.	39 3/64"	25 1/2"	44 3/4"	53PY42	53PY41	53PY45
95 gal.	39 3/64"	28 1/2"	46"	53PY49	53PY48	53PY52

Rubbermaid Commercial Products

Heavy-Duty Rectangular Plastic BRUTE® Rollout Step Trash Cans

No. 53PY33



Foot-activated pedal opens the lid when pressed, freeing hands for maneuvering waste. Commercial-grade wheels support heavy loads. Lids open fully and stay in place during transport. Compatible with auto-lifters.

Cap.	D	W	H	BLUE Item No.	GRAY Item No.
Include (2) Heavy-Duty Wheels					
32 gal.	32 21/64"	20 3/4"	37 1/4"	53PY28	53PY27
50 gal.	34 1/2"	24"	39 3/4"	53PY34	53PY33
65 gal.	39 3/64"	25 1/2"	44 3/4"	53PY40	53PY39
95 gal.	39 3/64"	28 1/2"	46"	53PY47	53PY46
Include (2) Heavy-Duty Wheels, (2) Front Swivel Casters					
32 gal.	32 21/64"	20 3/4"	37 1/4"	53PY32	53PY31
65 gal.	39 3/64"	25 1/2"	44 3/4"	53PY44	53PY43
50 gal.	34 1/2"	24"	39 3/4"	53PY38	53PY37
95 gal.	39 3/64"	28 1/2"	46"	53PY51	53PY50



TOUGH GUY
Beige
No. G8985



Red
No. F9108



White
No. G8986

Rectangular Plastic Step Trash Cans

Collect trash where floor space is limited, such as in breakrooms and restrooms. The low-profile design allows these to be placed against walls where floor space is limited.

Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Brand	Item No.
8 gal.	16 3/4"	16"	15 1/4"	Beige, Red, White	Tough Guy	G8984
8 gal.	17"	16 1/4"	15 3/4"	Beige, Red, White	Rubbermaid	F9110
12 gal.	23 1/2"	16 1/4"	15"	Beige, Red, White	Rubbermaid	F9109
12 gal.	23 3/4"	16 1/4"	15 3/4"	Beige, Red, White	Tough Guy	G8985
18 gal.	25"	19 1/4"	16"	Beige	Tough Guy	6YLP3
18 gal.	25"	19 1/4"	16"	Red	Tough Guy	6YLP4
18 gal.	25"	19 1/4"	16"	White	Tough Guy	6YLP5
18 gal.	26 1/2"	19 3/4"	14 3/4"	Beige, Red, White	Rubbermaid	F9108
23 gal.	31"	19 1/4"	16"	Beige, Red, White	Tough Guy	G8986
23 gal.	32 1/2"	19 3/4"	16 1/2"	Beige, Red, White	Rubbermaid	F9093

Rectangular Metal Step Trash Cans

Rubbermaid Commercial Products

Stainless steel trash cans with flat tops and increased clearance to access step pedal. The low-profile design allows placement against walls in restrooms and breakrooms. Include plastic liner.



No. 45UZ81

Cap.	Finish	H	Width/ Diameter	D	Color	Item No.
4 gal	Brushed	19 in	15 1/4 in	11 3/4 in	Silver/Black	45UZ78
8 gal	Brushed	25 in	16 3/4 in	12 3/4 in	Silver/Black	45UZ81
13 gal	Brushed	28 3/4 in	18 in	13 1/2 in	Silver/Black	38UJ43
24 gal	Brushed	31 3/4 in	21 3/4 in	16 in	Silver/Black	45NY45

Oval Metal Step Trash Cans

TOUGH GUY

A flat back allows these stainless steel/plastic cans to be placed against a wall to save floor space where waste needs collecting. A foot-activated pedal opens the lid when pressed and allows hands-free use to help limit the spread of germs and keep hands clean.



No. 6ZCL0

Cap.	H	Width/ Diameter	D	Color	Finish	Item No.
2 1/2 gal.	17 1/2"	15 3/4"	11 3/4"	Silver	Satin	6ZCL0
8 gal.	27"	14 3/4"	13 1/2"	Silver	Satin	6ZCL1
13 gal.	27 3/4"	18"	16"	Silver	Satin	6ZCL2



No. 2KDU9



No. 2KDV1



No. 5LY26

Rubbermaid Commercial Products

Defenders® Square Metal Step Trash Cans

Hold more waste than round cans that take up a similar amount of floor space in hospitals and healthcare facilities. Place next to each other without gaps, against a wall, or in a corner to keep cans out of traffic areas. Foot-activated pedal opens the can without using hands. Include plastic liner.

Top Type	Cap.	H	Width/ Diameter	D	RED Item No.	SILVER Item No.	WHITE Item No.
Flat	7 gal.	17"	14 1/4"	13 1/2"	2KDU7	2KDU8	5LY26
Flat	12 gal.	23"	14 1/4"	13 1/2"	2KDU9	2KDV1	5LY27
Flat	13 gal.	30"	16 3/4"	16"	—	5LY29	—
Flat	24 gal.	30"	16 3/4"	16"	2KDV2	—	5LY28

No. 4PGJ3



No. 6ZCL4



No. 4PGJ2



TOUGH GUY

Round Metal Step Trash Cans

Foot-activated cover provides hands-free use while hiding contents and containing odors. Round cans collect waste in schools, hospitals, offices, and other indoor locations.

Top Type	Cap.	H	Width/ Diameter	Color	Finish	Includes	Item No.
Stainless Steel							
Flat	3 1/2 gal.	15 3/4"	10"	Silver	Mirror	Plastic Liner	4PGH9
Flat	8 gal.	25"	11 3/4"	Silver	Mirror	Galvanized Liner	4PGJ3
Dome	10 gal.	31 1/2"	13 3/4"	Silver	Brushed	Galvanized Liner	6ZCL4
Steel							
Flat	3 1/2 gal.	15 3/4"	10"	Red	Powder Coated	Plastic Liner	4PGJ2
Flat	3 1/2 gal.	15 3/4"		White	Powder Coated	Plastic Liner	4PGH8
Flat	8 gal.	25"	11 3/4"	White	Powder Coated	Galvanized Liner	4PGJ1
Dome	10 gal.	31 1/2"	13 3/4"	Black	Powder Coated	Galvanized Liner	6ZCL6

Metal Recycling Cans

Collect recyclable materials in office buildings, hotels, and other public spaces where appearance is important. Metal provides a more finished look than plastic cans.

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Rectangular						
Steel						
Flat with Top Opening	(2) 18 gal.	31"	28"	14"	Brown	**22N275**
	(2) 18 gal.	31"	28"	14"	Silver	**22N276**
	(3) 18 gal.	31"	42"	14"	Brown	**22N277**
	(3) 18 gal.	31"	42"	14"	Silver	**22N278**
Round						
Plastic, Stainless Steel						
Flat with Top Opening	33 gal.	32"	18"	—	Silver	**5UJC1**
Stainless Steel						
Funnel	45 gal.	35"	23"	—	Blue/Silver	**5UJA6**
Steel						
Flat with Top Opening	(3) 4½ gal.	28"	15"	15"	Silver	**22N279**
Square						
Flat with Top Opening	18 gal.	31"	14"	14"	Silver	**22N274**



No. 5UJC1



No. 22N274

Silhouettes Square Metal Recycling Can

Perforated pattern blends into break areas and small rooms to collect a variety of recyclables. Square shape allows cans to be placed flush against a wall or in a corner. Fire-safe steel construction.

Description	Cap.	H	Width/ Diameter	D	Color	Item No.
Cans and Bottles	29 gal.	32¼"	18¼"	18¼"	Silver	**2KDW4**



Rectangular Plastic Recycling Wastebaskets

Fit under standard-height desks where floor space is limited or place near workstations and conference rooms. Plastic resists dents and corrosion, and is lighter than metal so it's easier to empty when full.

Cap.	H	Width/ Diameter	D	Color	Brand	Item No.
3¼ gal.	12"	10½"	14½"	Blue	Rubbermaid	**5M781**
3½ gal.	12"	8"	11½"	Blue	Tough Guy	**4UAU4**
7 gal.	15"	10½"	14½"	Green	Rubbermaid	**4LZL2**
7 gal.	15"	10½"	14½"	Blue	Rubbermaid	**5M785**
7 gal.	15¼"	10½"	14½"	Blue	Tough Guy	**4UAU5**
10¼ gal.	18¼"	12¾"	16½"	Blue	Tough Guy	**4UAU6**


No. 4LZL2

Slim-Profile Rectangular Plastic Recycling Cans and Lids

Narrower than standard rectangular cans, use in areas that generate medium-to-high volumes of recyclables, including copy rooms and breakrooms. Place flush against a wall to limit the amount of floor space used. Order cans and tops separately.

Cap.	H	Width/ Diameter	D	Brand	BLUE Item No.	GREEN Item No.
Slim Jim® Slim-Profile Recycling Cans with Venting Channels						
23 gal.	30"	11"	22"	Rubbermaid	**2FTG5**	**2FTG6**
Slim-Profile Recycling Cans						
23 gal.	29¾"	11½"	20"	Tough Guy	**4PGU9**	**10F626**
All-Purpose Recycling Tops for Slim Jim® Can Nos. 2FTG5 and 2FTG6						
—	2¾"	11½"	20½"	Rubbermaid	**6TUA3**	**6TUA4**
Indoor Recycling Top with Paper Slot for Can No. 4PGU9						
—	2¾"	11½"	20½"	Tough Guy	**4UAV3**	—


No. 2FTG6


No. 4PGU9


No. 6TUA3

BRUTE® Series Round Plastic Recycling Cans

Use to collect high volumes of recyclable materials. Heavy-duty plastic with built-in handles. Reinforced base helps prevent damage caused by rough handling and dragging.

Cap.	Width/ Diameter	H	Color	Item No.
20 gal.	19½"	23"	Blue	**35ZU65**
32 gal.	22"	27¼"	Blue	**35ZU72**
32 gal.	22"	27¼"	Green	**40PM33**
44 gal.	24"	31½"	Blue	**35ZU75**



No. 35ZU65

Square Plastic Recycling Cans and Lids

Open-top cans are used in mail rooms, copy rooms, break areas, and often serve as a repository for several workstations. Place flush against a wall or in a corner to save floor space.

Cap.	H	Width/ Diameter	D	Color	Brand	Item No.
Recycling Cans						
23 gal.	30¾"	15½"	16½"	Blue	Rubbermaid	**5M822**
25 gal.	26½"	16¼"	16¼"	Blue	Tough Guy	**4UAU9**
32 gal.	31¾"	16¼"	16¼"	Blue	Tough Guy	**4UAV2**
35 gal.	27½"	19½"	19½"	Blue	Rubbermaid	**6HH26**
50 gal.	34¼"	19½"	19½"	Blue	Rubbermaid	**6HH27**
56 gal.	31"	22¾"	25½"	Blue	Rubbermaid	**8ZK21**
All-Purpose Recycling Top for No. 5M822						
—	3¼"	16"	—	Blue	Rubbermaid	**6TUA5**
Bottle and Can Recycling Top for No. 5M822						
—	3¼"	21"	—	Blue	Rubbermaid	**6TUA9**


No. 5M822


No. 8ZK21

Rectangular Plastic Recycling Tote

Collect or sort recyclable materials for commercial and curbside recycling programs. Handles make moving tote easier and holes in the bottom allow water and other liquids to drain.

Description	Cap.	H	Width/ Diameter	D	Color	Item No.
Curbside	14 gal.	14½"	19½"	15⅜"	Blue	**4UAU8**



Glutton® Series Rectangular Plastic Recycling Stations

Multiple containers in a single unit encourage recycling and help facilitate sorting. Holes are labeled or are shaped to accept a specific shape, such as round cans or paper.

Cap.	L	W	H	Color	Item No.
(4) 23 gal.	53"	24"	35½"	Blue	**2FTH9**
(4) 23 gal.	53"	24"	35½"	Brown	**2FTJ1**
(2) 23 gal.	26"	24"	35½"	Green	**8RGK8**
(2) 23 gal.	—	23½"	35½"	Beige	**43WZ93**
(2) 23 gal.	26"	24"	35½"	Blue	**9K123**
(4) 23 gal.	53"	23½"	35½"	Green	**12G811**


No. 2FTH9

Slim-Profile Slim Jim® Rectangular Plastic Recycling Stations

Narrow recycling stations take up less floor space and encourage recycling. Multiple holes are labeled or are shaped to accept a specific shape, such as round cans or paper.

Cap.	Width/ Diameter	D	H	Container Markings	Item No.
(2) 23 gal.	24"	40¼"	40¼"	Landfill, Paper	**55ET95**
(2) 23 gal.	24"	40¼"	40¼"	Landfill, Mixed Recycling	**55ET94**
(2) 23 gal.	24"	40¼"	40¼"	Bottles/Cans, Landfill	**55ET96**
(3) 23 gal.	24"	40¼"	40¼"	Compost, Landfill, Mixed Recycling	**55ET98**
(3) 23 gal.	24"	40¼"	40¼"	Cans, Landfill, Paper	**55ET97**
(4) 23 gal.	24"	40¼"	40¼"	Cans, Landfill, Paper, Plastic	**55ET99**



No. 55ET94

Half-Round Plastic Recycling Can

Place flat side flush with a wall where recyclable materials are collected, keeping the can out of traffic and saving floor space.

Cap.	Width/ Diameter	D	H	Color	Item No.
21 gal.	12"	21"	28"	Blue	**5M794**



Plastic Recycling Saddles

Attach to the side of a wastebasket or trash container to make it easier to sort trash and recyclables before disposal.

Cap.	Width/ Diameter	D	H	Color	Item No.
1 gal.	7¼"	10½"	11½"	Black	**5RUU8**
1 gal.	7¼"	10½"	11½"	Blue	**9DJA6**







Trash Bags for Soft Refuse, Nonsharp Objects

TOUGH GUY

- HDPE
- Coreless rolls

For items with soft or rounded edges such as paper, paper towels, and linen. Suitable for restrooms, offices, and general trash collection. Bags are moisture-resistant to help keep containers clean.

Cap.	Rolls per Package	Bags Per Roll	W	H	Thickness	Item No.	Pkg. Qty.
Black							
34 to 38 gal.	10	25	30"	49"	17 micron	**2U384**	250
40 to 45 gal.	10	15	40"	48"	22 micron	**5XL50**	150
56 gal.	10	15	43"	48"	22 micron	**5XL51**	150
60 gal.	10	15	38"	60"	22 micron	**5XL49**	150
Clear							
4 to 7 gal.	40	50	17"	18"	6 micron	**5XL44**	2000
7 to 10 gal.	40	50	20"	22"	6 micron	**5XL45**	2000
10 gal.	20	50	24"	24"	8 micron	**1CF86**	1000
7 to 10 gal.	20	50	24"	24"	6 micron	**4KN28**	1000
12 to 16 gal.	20	50	24"	33"	6 micron	**4KN29**	1000
	20	50	24"	33"	8 micron	**5XL46**	1000
20 to 30 gal.	20	25	30"	37"	8 micron	**5XL47**	500
	20	25	30"	37"	9 micron	**3U870**	500
	20	25	30"	37"	12 micron	**4KN31**	500
	10	25	30"	37"	16 micron	**3CCT7**	250
33 gal.	10	25	33"	40"	12 micron	**4KN32**	250
	10	25	33"	40"	17 micron	**4KN33**	250
40 to 45 gal.	10	25	40"	48"	9 micron	**4KN38**	250
	10	25	40"	48"	12 micron	**4KN39**	250
	10	25	40"	48"	16 micron	**4KN40**	250
	10	15	40"	48"	22 micron	**5BB54**	150
44 gal.	10	25	37"	46"	14 micron	**5XL48**	250
55 gal.	8	25	36"	60"	1 micron	**4KN34**	200
	8	25	36"	60"	16 micron	**4KN35**	200
	8	25	41"	54"	16 micron	**4YPC4**	200
56 gal.	8	25	43"	48"	16 micron	**4KN42**	200
60 gal.	8	25	38"	60"	14 micron	**4KN36**	200
	8	25	38"	60"	16 micron	**4KN37**	200
	10	15	38"	60"	22 micron	**4CU29**	150





Trash Bags for Heavy Refuse, Sharp Objects

TOUGH GUY

- LLDPE

Bags conform to waste shapes while resisting tears and punctures from items with sharp corners or edges. Suitable for collecting glass and cardboard in commercial kitchens and on construction sites.

Cap.	Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.		Pkg. Qty.
Coreless Rolls									
Black									
7 to 10 gal	7 to 10 gal	20	50	20 in	21 in	0.35 mil	**31DK63**		1000
10 gal	10 gal	10	50	24 in	23 in	0.35 mil	**31DK64**		500
15 gal	15 gal	10	50	24 in	32 in	0.35 mil	**31DK65**		500
20 to 30 gal	20 to 30 gal	10	25	30 in	36 in	0.45 mil	**31DK66**		250
		10	25	30 in	36 in	0.6 mil	**31DK67**		250
30 gal	30 gal	10	10	26 in	43 in	1.1 mil	**31DK68**		100
38 gal	38 gal	10	10	30 in	46 in	0.8 mil	**31DK72**		100
33 gal	33 gal	10	25	33 in	39 in	0.45 mil	**31DK69**		250
		10	25	33 in	39 in	0.6 mil	**31DK70**		250
		10	25	33 in	39 in	0.8 mil	**31DK71**		250
20 to 30 gal	20 to 30 gal	6	25	33 in	39 in	1.0 mil	**1DZE6**	*	150
40 to 45 gal	40 to 45 gal	10	25	40 in	46 in	0.5 mil	**31DK73**		250
		5	25	40 in	46 in	0.65 mil	**31DK74**		125
		10	10	40 in	46 in	1.1 mil	**31DK75**		100
50 gal	50 gal	10	10	45 in	47 in	1.2 mil	**31DK77**		100
54 gal	54 gal	10	10	50 in	43 ½ in	1.1 mil	**31DK78**		100
44 gal	44 gal	10	10	36 in	46 in	1.1 mil	**31DK76**		100
40 to 45 gal	40 to 45 gal	5	20	37 in	46 in	1.2 mil	**1DZE7**	*	100
55 gal	55 gal	10	10	36 in	58 in	0.7 mil	**31DK79**		100
56 gal	56 gal	10	10	42 ½ in	48 in	0.7 mil	**31DK80**		100
		10	10	42 ½ in	48 in	1.1 mil	**31DK81**		100
60 gal	60 gal	10	10	38 in	58 in	0.7 mil	**31DK82**		100
		10	10	38 in	58 in	0.95 mil	**31DK83**		100
		10	10	38 in	58 in	1.2 mil	**31DK84**		100
Clear									
7 gal	7 gal	20	50	24 in	23 in	0.35 mil	**31DK31**		1000
10 gal	10 gal	10	50	24 in	32 in	0.35 mil	**31DK30**		500
20 to 30 gal	20 to 30 gal	10	25	30 in	36 in	0.45 mil	**31DK32**		250
		8	25	30 in	36 in	1.0 mil	**31DK41**		200
33 gal	33 gal	10	25	33 in	39 in	0.45 mil	**31DK33**		250
		10	25	33 in	39 in	0.6 mil	**31DK34**		250
		8	25	33 in	39 in	1.1 mil	**31DK42**		200
40 to 45 gal	40 to 45 gal	5	25	40 in	46 in	0.65 mil	**31DK35**		125
		10	10	40 in	46 in	1.1 mil	**31DK43**		100
		10	10	40 in	46 in	1.7 mil	**31DK46**		100

Cap.	Rolls per Package	Bags Per Roll	W	H	Thickness	Item No.		Pkg. Qty.
Coreless Rolls (Cont.)								
Clear (Cont.)								
54 gal	54 gal	10	10	50 in	43 ½ in	1.1 mil	**31DL09**	100
55 gal	55 gal	10	10	36 in	58 in	0.7 mil	**31DK37**	100
		10	10	36 in	58 in	1.0 mil	**31DK40**	100
56 gal	56 gal	10	10	42 ½ in	48 in	0.7 mil	**31DK36**	100
		10	10	42 ½ in	48 in	1.1 mil	**31DK44**	100
60 gal	60 gal	10	10	38 in	58 in	0.7 mil	**31DK38**	100
		10	10	38 in	58 in	0.95 mil	**31DK39**	100
		10	10	38 in	58 in	1.2 mil	**31DK45**	100
		10	10	38 in	58 in	1.7 mil	**31DK47**	100
Gray								
10 gal	10 gal	10	50	24 in	23 in	0.4 mil	**5XL52**	500
10 to 15 gal	10 to 15 gal	10	50	24 in	32 in	0.4 mil	**5XL53**	500
20 to 30 gal	20 to 30 gal	10	25	30 in	36 in	0.5 mil	**5XL54**	250
		10	25	30 in	36 in	0.7 mil	**1YLY9**	250
		10	10	30 in	36 in	1.0 mil	**4YPA2**	100
33 gal	33 gal	10	25	33 in	39 in	0.7 mil	**5XL55**	250
		10	20	33 in	39 in	1.0 mil	**1YLZ1**	200
		5	20	33 in	39 in	1.5 mil	**4YPA3**	100
		10	10	33 in	39 in	2.0 mil	**4YPA4**	100
40 to 45 gal	40 to 45 gal	5	25	40 in	46 in	0.7 mil	**5XL57**	125
		6	25	40 in	46 in	0.9 mil	**5XL64**	150
		10	10	40 in	46 in	1.1 mil	**5XL58**	100
		5	20	40 in	46 in	1.5 mil	**4YPA5**	100
		10	10	40 in	46 in	2.0 mil	**4YPA6**	100
44 gal	44 gal	10	10	36 in	50 in	0.7 mil	**5XL56**	100
55 gal	55 gal	10	10	36 in	58 in	0.7 mil	**5XL61**	100
		4	25	41 in	54 in	0.9 mil	**4YPA1**	100
		10	10	36 in	58 in	1.1 mil	**5XL62**	100
		5	20	36 in	58 in	1.5 mil	**4YPA7**	100
		10	10	36 in	58 in	2.0 mil	**4YPA8**	100
56 gal	56 gal	10	10	42 ½ in	48 in	0.7 mil	**5XL59**	100
		10	10	42 ½ in	48 in	1.1 mil	**5XL60**	100
		5	20	42 ½ in	48 in	1.5 mil	**4YPA9**	100
		10	10	42 ½ in	48 in	2.0 mil	**4YPC1**	100
60 gal	60 gal	10	10	38 in	58 in	0.9 mil	**5XL65**	100
		10	10	38 in	58 in	1.1 mil	**5XL63**	100
		5	20	38 in	58 in	1.5 mil	**4YPC2**	100
		10	10	38 in	58 in	2.0 mil	**4YPC3**	100
Orange								
40 to 45 gal	40 to 45 gal	10	10	40 in	48 in	1.5 mil	**31DK85**	100
White								
10 to 15 gal	10 to 15 gal	10	25	24 in	28 in	0.85 mil	**1DZE4** *	250
20 to 30 gal	20 to 30 gal	8	25	30 in	36 in	1.0 mil	**31DK48**	200
		6	25	33 in	39 in	1.0 mil	**1DZE5** *	150
33 gal	33 gal	10	15	33 in	39 in	1.0 mil	**31DK49**	150
40 to 45 gal	40 to 45 gal	10	10	40 in	46 in	1.0 mil	**31DK50**	100
56 gal	56 gal	10	10	42 ½ in	48 in	1.0 mil	**31DK51**	100
60 gal	60 gal	10	10	38 in	58 in	1.0 mil	**31DK52**	100
Cored Rolls								
Black								
30 gal	30 gal	1	75	29 ¼ in	53 in	4.0 mil	**52WX84**	75
45 gal	45 gal	1	75	39 in	46 in	4.0 mil	**52WX87**	75
55 gal	55 gal	1	75	36 in	63 in	4.0 mil	**52WX90**	75
		1	50	36 in	63 in	5.5 mil	**52WX94**	50
Clear								
55 gal	55 gal	1	50	37 in	57 in	4.0 mil	**52WX93**	50
Orange								
30 gal	30 gal	1	75	29 ¼ in	53 in	4.0 mil	**52WX85**	75
45 gal	45 gal	1	75	39 in	46 in	4.0 mil	**52WX88**	75
55 gal	55 gal	1	75	36 in	63 in	4.0 mil	**52WX91**	75
Yellow								
30 gal	30 gal	1	75	29 ¼ in	53 in	4.0 mil	**52WX86**	75
45 gal	45 gal	1	75	39 in	46 in	4.0 mil	**52WX89**	75
55 gal	55 gal	1	75	36 in	63 in	4.0 mil	**52WX92**	75
		1	50	36 in	63 in	5.5 mil	**52WX95**	50

Cap.	W	H	Thickness	Item No.		Pkg. Qty.
Flat Pack						
Clear						
60 gal.	38"	58"	4.00 mil	**3CCT8**	*	50

Drawstring closure.



No. 15E467



No. 5AE63

Trash Bags for Wood, Metal, Concrete

- Super Hexene HAO

For heavy-duty and industrial applications that require maximum strength and resistance to punctures and tearing. They are often used by contractors on construction sites, in lumber yards, and in brickwork applications to hold heavy or sharp waste.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
Coreless Rolls							
Black							
15 to 18 gal	1	25	24 in	40 in	0.75 mil	**5WG05**	25
33 gal	1	25	35 in	39 in	0.75 mil	**5WG06**	25
	1	25	35 in	39 in	1.1 mil	**5WG08**	25
36 gal	1	25	30 in	46 in	0.9 mil	**5WG09**	25
44 gal	1	25	38 ½ in	44 ½ in	0.9 mil	**5WG10**	25
55 gal	1	20	36 in	60 in	1.65 mil	**5WG01**	20
56 gal	1	25	42 in	48 in	1.2 mil	**5WF99**	25

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
Clear							
10 gal	10	50	24 in	24 in	0.75 mil	**15E461**	500
	10	25	24 in	24 in	1.2 mil	**15E462**	250
	10	25	24 in	24 in	1.4 mil	**15E463**	250
11 to 13 gal	1	50	23 ½ in	29 in	0.75 mil	**5WG04**	50
12 to 16 gal	10	50	24 in	33 in	0.75 mil	**15E464**	500
	10	25	24 in	33 in	1.2 mil	**15E465**	250
	10	25	24 in	33 in	1.4 mil	**15E466**	250
20 to 30 gal	10	25	30 in	37 in	0.75 mil	**15E468**	250
	10	20	30 in	37 in	1.4 mil	**15E471**	200
33 gal	1	25	35 in	39 in	0.75 mil	**5WG07**	25
	10	25	33 in	40 in	0.75 mil	**15E473**	250
	10	20	33 in	40 in	1.2 mil	**15E475**	200
40 to 45 gal	10	15	40 in	48 in	0.87 mil	**15E480**	150
	10	10	40 in	48 in	1.2 mil	**15E482**	100
	10	10	40 in	48 in	1.4 mil	**15E484**	100
	10	5	40 in	48 in	2.5 mil	**15E486**	50
55 gal	10	10	36 in	58 in	1.2 mil	**15E492**	100
	1	20	36 in	60 in	1.65 mil	**5WG02**	20
	10	5	36 in	58 in	2.5 mil	**15E495**	50
56 gal	10	15	43 in	48 in	0.98 mil	**15E488**	150
	10	10	43 in	48 in	1.4 mil	**15E490**	100
60 gal	10	10	38 in	58 in	1.2 mil	**15E499**	100
	10	10	38 in	58 in	1.4 mil	**15E502**	100
	10	5	38 in	58 in	2.5 mil	**15E504**	50
Magnum Blue							
20 to 30 gal	10	25	30 in	37 in	0.75 mil	**15E467**	250
40 to 45 gal	10	10	40 in	48 in	1.2 mil	**15E481**	100
	10	10	40 in	48 in	1.4 mil	**15E483**	100
	10	5	40 in	48 in	2.5 mil	**15E485**	50
55 gal	10	10	36 in	58 in	1.4 mil	**15E493**	100
	10	5	36 in	58 in	2.5 mil	**15E494**	50
56 gal	10	10	43 in	48 in	1.4 mil	**15E489**	100
60 gal	10	10	38 in	58 in	1.2 mil	**15E498**	100
	10	10	38 in	58 in	1.4 mil	**15E501**	100
	10	5	38 in	58 in	2.5 mil	**15E503**	50
White							
7 gal	1	100	21 ½ in	22 in	0.75 mil	**5WF98**	100
11 to 13 gal	1	50	23 ½ in	29 in	0.75 mil	**5WG03**	50

Cap.	W	H	Thickness	Item No.	Pkg. Qty.
Flat Packs					
Silver					
20 to 30 gal	30 in	37 in	1.5 mil	**5AE63**	100
33 gal	33 in	40 in	1.5 mil	**5AE64**	100
40 to 45 gal	39 in	47 in	1.7 mil	**5AE65**	50
55 to 60 gal	39 in	57 in	1.7 mil	**5AE66**	50
56 gal	43 in	49 in	1.7 mil	**5AE67**	50



Contractor Trash Bags

- LLDPE
- Coreless rolls

Highly resistant to punctures and tearing. Star-seal bottoms and seam-free sides help to prevent leakage.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
42 gal	33 in	48 in	3.0 mil	Black	**5AU51**	20



Compactor Trash Bags

- LLDPE
- Flat pack

For use in commercial compactors. Designed with a gusset seal.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
50 gal	26 in x 24 in	48 in	2.5 mil	Black	**4YPC5**	50



No. 4YPD1

Trash Bags for Brute® Rollout Trash Cans

- LLDPE
- Flat packs

Sized to fit Brute® Rollout Trash Cans. See page 1557. Designed with a gusset seal.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
50 gal	31 in x 26 in	64 in	2.0 mil	Clear	**4YPC7**	50
65 gal	35 in x 28 in	70 in	2.0 mil	Blue	**4YPD1**	50
65 to 95 gal	35 in x 28 in	70 in	2.0 mil	Clear	**4YPC9**	50


No. 49YW58


No. 31DK56

Recycled Plastic Trash Bags

TOUGH GUY

- LLDPE
- Coreless rolls

Heavy-duty construction to resist tearing and punctures. Strong and durable for industrial and factory applications. Suitable for transporting trash and keeping trash cans clean in LEED-certified facilities.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.		Pkg. Qty.
80% Postconsumer								
Black								
30 gal	1	10	30 in	33 in	0.85 mil	**49YW60**	*	10
	1	40	30 in	33 in	0.9 mil	**49YW67**		40
	1	70	30 in	32 in	1.05 mil	**49YW61**	*	70
	1	90	30 in	33 in	1.05 mil	**49YW62**	*	90
	1	25	30 in	32 in	1.1 mil	**49YW59**	*	25
	1	28	30 in	33 in	1.15 mil	**49YW66**	*	28
33 gal	1	50	32 in	37 in	3.0 mil	**49YW68**		50
	1	50	32 in	39 in	3.0 mil	**38EU82**		50
40 to 45 gal	1	20	33 in	48 in	3.0 mil	**38EU83**		20
	1	50	33 in	48 in	3.0 mil	**38EU84**		50
	1	32	33 in	48 in	4.0 mil	**38EU81**		32
42 gal	1	40	32 in	46 in	3.0 mil	**49YW69**		40
45 gal	1	100	40 in	46 in	1.2 mil	**38EU60**		100
	1	100	40 in	46 in	1.5 mil	**38EU75**		100
80% Postconsumer (Cont.)								
Black (Cont.)								
55 to 60 gal	1	100	38 in	58 in	1.2 mil	**38EU57**		100
	1	100	38 in	58 in	1.5 mil	**38EU58**		100
	1	100	38 in	58 in	2.0 mil	**38EU59**		100
56 gal	1	100	43 in	47 in	1.2 mil	**38EU67**		100
	1	100	43 in	47 in	1.5 mil	**38EU68**		100
White								
8 gal	1	26	20 in	20 in	0.69 mil	**49YW64**		26
13 gal	1	80	23 ¼ in	28 in	0.69 mil	**49YW63**		80
	1	100	24 in	24 ½ in	0.78 mil	**49YW58**	*	100
	1	100	24 in	24 ½ in	0.82 mil	**49YW57**	*	100
	1	40	24 in	27 ½ in	0.95 mil	**49YW65**	*	40
70% Recycled Content; 10% Postconsumer								
Black								
10 gal	10	25	24 in	32 in	1.0 mil	**31DK53**		250
16 gal	10	25	24 in	32 in	0.9 mil	**38D109**		250
20 to 30 gal	5	25	30 in	36 in	1.5 mil	**31DK54**		125
33 gal	6	25	33 in	39 in	1.2 mil	**38D112**		150
	10	10	33 in	39 in	1.5 mil	**38D110**		100
	5	25	33 in	39 in	1.5 mil	**31DK55**		125
40 to 45 gal	5	25	40 in	46 in	1.5 mil	**31DK56**		125
	10	10	40 in	46 in	2.0 mil	**31DK59**		100
55 gal	5	10	36 in	58 in	2.0 mil	**31DK61**		50
56 gal	10	10	42 ½ in	48 in	1.5 mil	**31DK57**		100
	10	10	42 ½ in	48 in	2.0 mil	**31DK60**		100
60 gal	10	10	38 in	58 in	1.5 mil	**31DK58**		100
	5	10	38 in	58 in	2.0 mil	**31DK62**		50
50% Postconsumer								
Clear								
12 to 16 gal	1	500	24 in	32 in	1.0 mil	**38EU63**		500
33 gal	1	100	33 in	39 in	1.0 mil	**38EU71**		100
	1	100	33 in	39 in	1.2 mil	**38EU69**		100
	1	100	33 in	39 in	1.5 mil	**38EU70**		100
45 gal	1	100	40 in	46 in	1.0 mil	**38EU64**		100
	1	100	40 in	46 in	1.2 mil	**38EU79**		100
	1	100	40 in	46 in	1.5 mil	**38EU61**		100
	1	100	40 in	46 in	2.0 mil	**38EU77**		100
55 to 60 gal	1	100	38 in	58 in	1.0 mil	**38EU62**		100
	1	100	38 in	58 in	1.2 mil	**38EU78**		100
	1	100	38 in	58 in	1.5 mil	**38EU76**		100
	1	100	38 in	58 in	2.0 mil	**38EU74**		100
	1	100	38 in	63 in	2.0 mil	**38EU72**		100
	1	25	38 in	58 in	6.0 mil	**38EU73**		25
56 gal	1	100	43 in	47 in	1.2 mil	**38EU80**		100
	1	100	43 in	47 in	1.5 mil	**38EU65**		100
	1	100	43 in	47 in	2.0 mil	**38EU66**		100

** Drawstring closure.*

No. 14L023



No. 14X377



Pest- and Rodent-Repellent Trash Bags

Bags have natural mint fragrance added to repel rats, raccoons, and other rodents while remaining safe for humans. HDPE bags are lightweight and moisture-resistant for collecting soft refuse such as paper towels, paper, and linen. LLDPE bags are tear- and puncture-resistant for collecting heavy refuse and items with sharp corners, such as cardboard in kitchens.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
HDPE, Coreless Rolls							
Black							
45 gal	10	25	40 in	48 in	16 micron	**14L025**	250
60 gal	10	15	38 in	60 in	22 micron	**14L026**	150
Clear							
45 gal	10	25	40 in	48 in	16 micron	**14X393**	250
56 gal	8	25	43 in	48 in	16 micron	**14L023**	200
60 gal	10	15	38 in	60 in	22 micron	**14L024**	150

Cap.	W	H	Thickness	Item No.	Pkg. Qty.
LLDPE, 80% Postconsumer, Flat Packs					
Black					
38 gal.	33"	46"	1.30 mil	**14X377**	100
	33"	46"	1.70 mil	**14X385**	100
44 gal.	40"	46"	1.30 mil	**14X378**	100
	40"	46"	1.70 mil	**14X386**	100
56 gal.	43"	47"	1.30 mil	**14X379**	100
	43"	47"	1.70 mil	**14X387**	100
60 gal.	38"	58"	1.30 mil	**14X380**	100
	38"	58"	1.70 mil	**14X388**	100
Clear					
38 gal.	33"	46"	1.30 mil	**14X381**	100
	33"	46"	1.70 mil	**14X389**	100
44 gal.	40"	46"	1.30 mil	**14X382**	100
	40"	46"	1.70 mil	**14X390**	100
56 gal.	43"	47"	1.30 mil	**14X383**	100
	43"	47"	1.70 mil	**14X391**	100
60 gal.	38"	58"	1.30 mil	**14X384**	100
	38"	58"	1.70 mil	**14X392**	100

TOUGH GUY

No. 5PHW8



Compostable Trash Bags

- Coreless rolls

Designed to collect waste for composting in commercial facilities.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
30 gal.	30"	36"	1.00 mil	Green	**5PHW8**	150
33 gal.	33"	39"	1.00 mil		**5PHW9**	100
45 gal.	40"	46"	1.00 mil		**5PHX0**	100
60 gal.	38"	58"	1.00 mil		**5PHX1**	100

TOUGH GUY

No. 31DL07



Blue Recycling Trash Bags

- LLDPE
- Coreless rolls

For recycling items in bag-based, community drop-off or municipal curbside recycling programs. Printed with recycling symbol.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
38 gal.	30"	46"	1.20 mil	Translucent	**31DL07**	100
40 to 45 gal.	40"	46"	1.20 mil	Blue	**31DL08**	100



No. 31DK88



No. 31DK91



No. 31DK99

Hospital Isolation Bags

- Coreless rolls

Bags with legends are printed in English and Spanish to identify contents: Infectious Waste (red) and Infectious Linen (yellow). Bags without a legend are for Noncontagious Linen (blue and green). Color-coded to manage disposal. HDPE bags are lightweight and moisture-resistant for collecting soft refuse such as paper towels, paper, and linen. LLDPE bags are tear- and puncture-resistant for collecting heavy refuse and items with sharp corners, such as glass, plastic, and cardboard.

Color	Legend	Cap.	W	H	Thickness	Item No.	Pkg. Qty.
HDPE							
Red	Infectious Waste	7 gal	24 in	24 in	0.47 mil	**31DK87**	1000
Red		33 gal	33 in	40 in	0.55 mil	**31DK88**	250
Red		45 gal	40 in	48 in	0.63 mil	**31DK92**	200
Yellow	Infectious Linen	44 gal	37 in	50 in	0.63 mil	**31DK91**	200
Blue	No Legend	33 gal	33 in	40 in	0.63 mil	**31DK89**	250
LLDPE							
Red	Infectious Waste	7 gal	24 in	24 in	1.2 mil	**31DK93**	250
Red		10 gal	24 in	33 in	1.3 mil	**31DK94**	200
Red		30 gal	30 in	37 in	1.3 mil	**31DK95**	100
Red		33 gal	31 in	43 in	1.3 mil	**31DK97**	100
Red			33 in	40 in	1.3 mil	**31DL01**	100
Red		44 gal	37 in	50 in	3.0 mil	**31DL06**	25
Red		45 gal	40 in	48 in	1.3 mil	**31DL02**	100
Red			40 in	48 in	3.0 mil	**31DL03**	50
Yellow	Infectious Linen	33 gal	31 in	43 in	1.2 mil	**31DK96**	100
Yellow		45 gal	40 in	48 in	1.2 mil	**31DL04**	100
Blue	No Legend	33 gal	31 in	43 in	1.2 mil	**31DK98**	100
Green			31 in	43 in	1.5 mil	**31DK99**	100
Blue		45 gal	40 in	48 in	1.2 mil	**31DL05**	100



No. 3UAF4

GRAINGER APPROVED

Biohazard Bags

- Polyethylene
- Coreless rolls

Printed with the universal biohazard insignia and legend in English and Spanish to encourage proper disposal and prevent unnecessary exposure.

Cap.	W	H	Thickness	Legend	Color	Item No.	Pkg. Qty.
1 gal.	11"	14½"	1.25 mil	Infectious Waste Biohazard	Red	**3UAF2**	200
3 gal.	13"	20"	1.25 mil		Red	**3UAF3**	200
5 gal.	15½"	22½"	1.25 mil		Red	**3UAF4**	200



Lawn and Leaf Bags

- Paper

Used by landscapers, lawn maintenance teams, and homeowners to collect leaves, grass clippings, tree trimmings, and other lawn waste. These paper bags are self-standing and can be used for curbside pickup. Biodegradable and recyclable.

Cap.	W	H	Color	Item No.	Pkg. Qty.
30 gal.	16"	35"	Brown	**4JMZ4**	5



No. 420T77 (3 Racks Shown)



No. 420T78



No. 420T79

bag buddy®

Bag Holders for Trash Bags

Strong and lightweight steel bag holders keep bags open and support the sides when loading. They open wide to remove bags without tearing. Bag holders are reusable and can be folded for transport and storage.

For Use With	H	W	L	Item No.
30 and 33 gal. Bag	23"	14"	16"	**420T77**
39 and 44 gal. Bag	30"	14"	16"	**420T78**
55 gal. Contractor Bag or 30 gal. Kraft Paper Yard Bag	37"	14"	16"	**420T79**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®


No. 3VE19


No. 193RD8


No. 22XJ47

shop-vac Dayton TENNANT

General Purpose Corded Shop Vacuums

- Wet/Dry pickup

Roll shop vacuums to a cleanup site and plug into a nearby electrical outlet to vacuum up liquid spills or dirt and debris. They're ready for use without having to wait for a battery pack to recharge. Standard vacuums filter the outgoing air through the vacuum bag. The HEPA filter vacuum forces air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke. These vacuums are commonly used at workshops, auto shops, car washes, and construction sites. Search General Purpose Corded Shop Vacuums on Grainger.com® for a complete list of vacuum contents.


No. 55EX73

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Brand	Item No.
Standard Filtration						
6 gal	Plastic	1 ¼ in	70 cfm	3	Shop-Vac	193RE0
	Plastic	1 ¼ in	110 cfm	3 ½	Dayton	3VE18
8 gal	Plastic	1 ¼ in	125 cfm	4 ½	Dayton	3VE19
8 gal.	Stainless Steel	1½"	65 cfm	2	Dayton	55EY24
10 gal	Plastic	1 ¼ in	140 cfm	5	Dayton	45UZ57
10 gal.	Plastic	1½"	65 cfm	2	Dayton	55EY23
10 gal	Plastic	1 ½ in	95 cfm	4	Shop-Vac	193RD8
12 gal	Plastic	2 ½ in	145 cfm	5 ½	Dayton	12Z214
12 gal.	Stainless Steel	1½"	65 cfm	2	Dayton	55EY26
12 gal	Stainless Steel	2 ½ in	145 cfm	5 ½	Dayton	22XJ47
14 gal.	Plastic	1½"	65 cfm	2	Dayton	55EY25
16 gal	Plastic	2 ½ in	155 cfm	6 ½	Dayton	3VE21
	Stainless Steel	2 ½ in	155 cfm	6 ½	Dayton	22XJ48
18 gal	Plastic	1 ½ in	110 cfm	6 ½	Shop-Vac	193RE5
20 gal.	Plastic	1½"	90 cfm	4	Dayton	55EY28
22 gal.	Plastic	1½"	65 cfm	2	Dayton	55EY27
22 gal	Plastic	2 ½ in	155 cfm	6 ½	Dayton	1UG91
24 gal	Plastic	1 ¼ in	118 cfm	—	Tennant	55EX73
32 gal	Plastic	2 ½ in	150 cfm	6 ½	Dayton	2RPD8
HEPA Filtration						
20 gal.	Stainless Steel	1½"	90 cfm	4	Dayton	55EY29


No. 2NYE3


No. 48UH44

Dayton

Portable Corded Shop Vacuums

- Wet/Dry pickup

Vacuums are lightweight, compact units that can be carried around the jobsite to clean up liquid spills or dirt and debris. They plug into a nearby electric outlet, so they're ready for use without having to wait for a battery pack to recharge. These vacuums take up less storage space than a full-size shop vacuum. All vacuums include efficient, single-stage bypass motors for powerful pick-up.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Item No.
Vacuums						
Standard Filtration						
1 ½ gal	Plastic	1 ¼ in	50 cfm	2	6 ft x 1 ¼ in Hose, Crevice Tool, Dusting Brush, On-board Tool Storage, Utility Nozzle, Wall Bracket	2NYE3
2 ½ gal	Plastic	1 ¼ in	60 cfm	2 ½		2NYE4
4 gal	Plastic	1 ¼ in	75 cfm	4	(2) Plastic Extension Wands, 10 in Wet or Dry Nozzle, 7 ft x 1 ¼ in Hose, Cartridge Filter, Crevice Tool, Dusting Brush, Foam Sleeve and Disposable Collection Bag Filter, Multi Surface Carpet / Floor Nozzle, Utility Nozzle	48UH44
4 gal.	Plastic	1½"	105 cfm	5.5	8 ft. Lock-On® Hose, (2) Plastic Extension Wand, 12" Floor Nozzle, Multi-Surface Floor Nozzle, Utility Nozzle, Crevice Tool, Dusting Brush, Foam Sleeve, 4-Wheel Dolly, Tool Storage Basket, 18 ft. Power Cord	55EY22
5 gal	Plastic	1 ½ in	140 cfm	6	1½ in Crevice Tool, 7 ft x 1½ in, Collection Bag, Heavy-Duty Cartridge Filter, Rear Blower Port, Utility Nozzle	1VHF8

Vacuum Bags and Filters	
Cloth Vacuum Bag for Nos. 2NYE3 and 2NYE4	5X878
Vacuum Bags for No. 48UH44, Pkg. of 3	48UH45
Sleeve Filter for Nos. 2NYE3 and 2NYE4	5X879
Cartridge Filter for Nos. 48UH44 and 1VHF8	4TB95
Cartridge Filter for Nos. 48UH44 and 1VHF8	6AKY8
Disc Filters for No. 1VHF8, Pkg. of 3	6H008
Wall Mount Bracket for No. 1VHF8	4UAD2

Portable Cordless Shop Vacuums

Makita Milwaukee DEWALT

Shop vacuums allow the cleanup of wet or dry spills while eliminating the trip hazard of a cord and the need to work near an electrical outlet. They're powered by rechargeable batteries to allow use in remote areas where electric power is unavailable. These vacuums are lightweight for transport and compact to save space in storage.

Vacuum Pickup Type	Tank Size	Vacuum Hose Dia.	Vacuum Air Flow	Voltage	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Wet/Dry	2.1 gal	1 ½ in	74 cfm	36	No	Floor Nozzle, Anti-Static Hose, Straight Tube, Curver Tube, Crevice Tool, Plastic Disposal Bag	Makita	XCV06Z	408L94
HEPA Filtration									
Dry	0.3 gal	1 ¼ in	40 cfm	18	No	4 ft Hose, (2) Extension Wands, Crevice Tool, Floor Tool, HEPA Filter	Milwaukee	0882-20	52WR81
Dry	2.1 gal	1 ½ in	74 cfm	36	No	Anti-Static Hose, (3) Tool Cuff Adapters, (10) Plastic Disposal Bag, HEPA Filter, Damper Filter, Pre-Filter	Makita	XCV07ZX	408L95
Dry	2.1 gal	1 ½ in	127 cfm	36	No	Straight Tube, Curved Tube, Crevice Tool, Anti-Static Hose 1 ½ in X 8 ft, HEPA Filter, (10) Plastic Disposal Bag, Damper Filter, Floor Nozzle, Anti-Static Hose 1 in X 11 ft, Tool Cuff Adapter, Tool Cuff Adapter, Pre-Filter	Makita	XCV04Z	52RX15
Wet/Dry	2 gal	1 ¼ in	31 cfm	18/20	No	5 ft Heavy-Duty Crush Resistant Hose 1¼ in dia, Crevice Tool	DeWalt	DCV580H	34D626
Wet/Dry	2 gal	1 ¼ in	31 cfm	18/20/120	No	Attachment, Wide Nozzle Tool Attachment, Washable HEPA Filter	DeWalt	DCV581H	34D627
Wet/Dry	2 gal.	1¼"	31 cfm	18/20	Yes	5 ft. Heavy-Duty Crush Resistant Hose (1¼" in dia), Crevice Tool Attachment, Wide Nozzle Tool Attachment, Washable Filter	DeWalt	DCV580H/ DCB203	58JM08
Wet/Dry	2 gal.	1¼"	45 cfm	18	Yes	Filter Assembly, Crevice Tool, Wide Nozzle, (2) Batteries, 4' Hose, (2) Extension Wands, Floor Tool	Milwaukee	48-11-1852, 0880-20	285MN3
Wet/Dry	2 gal	1 ¼ in	45 cfm	18	No	6 ft Flexible Hose, Crevice Tool, Utility Nozzle, HEPA Filter	Milwaukee	0880-20	2CDC6
Required Accessories									
Battery for Nos. 408L94, 408L95, 52RX15							Makita	BL1850B	38XU33
Battery Charger for Nos. 408L94, 408L95							Makita	DC18RC	4NNN4
Battery for No. 52WR81							Milwaukee	48-11-1850	35GJ99
Battery Charger for No. 52WR81							Milwaukee	48-59-1808	45LD79
Battery and Charger Kit for No. 52WR81							Milwaukee	48-59-1850	38XH99
Battery for Nos. 34D626 and 34D627							DeWalt	DCB201	11A168
Battery Charger for Nos. 34D626, 34D627 and 58JM08							DeWalt	DCB115	11A157
Battery for No. 2CDC6							Milwaukee	48-11-1840	38D766


No. 408L94


No. 34D626


No. 2CDC6

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®



No. 4YE65



No. 21YG56


No. 55EX40

Dayton | Tornado® | shop-vac

Commercial Cleaning Corded Shop Vacuums

- Wet/Dry pickup

Commercial vacuums have a single-stage or 2-stage motor that allows more frequent use than general purpose shop vacuums. They are used for cleaning up liquid spills or dirt and debris and are commonly paired with attachments suited for professional office, school, or retail cleaning applications. Standard vacuums filter the outgoing air through the vacuum bag. HEPA filter vacuums force air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Brand	Mfr. Model	Item No.
Vacuums								
Standard Filtration								
6 gal	Plastic	1 ¼ in	125 cfm	4 ½	(2) Extension Wands, (4) Casters, 10 in Wet/Dry Floor Nozzle, Crevice Tool, Deluxe Accessory Tool Kit Includes: 8 ft x 1¼ in Hose, Dual Surface Selection Floor Nozzle, Dusting Brush, Foam Sleeve, Heavy-Duty Cartridge Filter, High-Efficiency Collection Bag, Utility Nozzle	Dayton	4YE65	**4YE65**
10 gal	Plastic	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94234	**21YG56**
14 gal	Plastic	1 ½ in	75 cfm	2 ½	(2) 1½ in dia Metal Extension Wands, 14 in Brush Shoe, 14 in Master Nozzle, 14 in Rug Shoe, 14 in Squeegee Shoe, Adapter, Cartridge Filter, Crevice Tool, Disposable Filter Bag, Dusting Brush, Foam Sleeve, Utility Nozzle	Shop-Vac	5811410	**55EX40**
14 gal	Stainless Steel	1 ½ in	100 cfm	5 ½	(2) 1½ in Metal Nozzle, 14 in Brush Shoe, 14 in Rug Shoe, 14 in Squeegee Shoe, 6 in Utility Nozzle, Adapter, Crevice Tool, Lock-On(R) Hose, Round Brush	Shop-Vac	5801210	**55EX44**
15 gal	Stainless Steel	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94232	**21YG57**
16 gal	Plastic	1 ½ in	184 cfm	2 ¼	14 in Hard Floor Tool and 18 in Hand Nozzle, 14 in Squeegee Floor Tool, 16 ft x 1½ in Static Conductive Urethane Hose with Sleeve, Large Poly External Filter, Liquid Shut-Off, Two Piece Double Curve Wand	Tornado	98699	**35PG50**
16 gal	Stainless Steel	1 ½ in	105 cfm	6 ½	(2) 1½ in dia Metal Extension Wands, 14 in Brush Shoe, 14 in Master Nozzle, 14 in Rug Shoe, 14 in Squeegee Shoe, Adapter, Cartridge Filter, Crevice Tool, Disposable Filter Bag, Dusting Brush, Foam Sleeve, Utility Nozzle	Shop-Vac	5802610	**55EX39**
17 gal	Plastic	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94230	**21YG58**
18 gal	Plastic	1 ½ in	80 cfm	3	(2) 1½ in dia Metal Extension Wands, 14 in Brush Shoe, 14 in Master Nozzle, 14 in Rug Shoe, 14 in Squeegee Shoe, Adapter, Cartridge Filter, Crevice Tool, Disposable Filter Bag, Dusting Brush, Foam Sleeve, Utility Nozzle	Shop-Vac	5811810	**55EX41**
18 gal	Plastic	1 ½ in	95 cfm	1 11/64	(3) Wand, 24 in Squeegee Assembly, 9 ft Hose, Crevice Tool, Dusting Brush	Dayton	5UMR0	**5UMR0**
20 gal	Stainless Steel	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94236	**21YG59**
Replacement Parts, Accessories and Bags								
Crush-Resistant Hose for No. 4YE65						Dayton	2Z290	**2Z290**
Two-Stage/By-Pass Service Motor, 2HP for No. 4YE65						Dayton	1UND4	**1UND4**
Single-Stage/By-Pass Service Power Unit for No. 4YE65						Dayton	1UND7	**1UND7**
Vacuum Hose for Nos. 55EX40 and 55EX41						Shop-Vac	9062500	**55EX48**
15-Ft. Static Conductive Clear Urethane Hose w/Sleeve for No. 35PG50						Tornado	90684	**1N157**
2-Piece Double Curve Floor Wand for No. 35PG50						Tornado	90682	**1N155**
Squeegee for No. 35PG50						Tornado	90644	**32EY91**



No. 22XJ50


No. 55EX43


No. 53UE32

Nilfisk | Dayton | shop-vac | Mi-T-M

Industrial Corded Shop Vacuums

Industrial vacuums provide greater suction than general purpose or commercial-cleaning shop vacuums to pick up heavier particles and liquids. Their 2-stage or 3-stage motor allows high-frequency use for heavy-duty cleanups of dust and dirt or liquid spills. Standard vacuums filter the outgoing air through the vacuum bag. HEPA filter vacuums force air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke. Vacuums plug into an electrical outlet to generate suction and have a large tank for holding vacuumed debris or liquids. These vacuums withstand frequent use at manufacturing facilities and building or construction sites.

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Wet/Dry	6 ⅝ gal	Plastic	1 ¼ in	127 cfm	1 ⅜	(2) Chrome Tubes, 11.5 ft Hose, Accy Net, Cord Storage Strap, Crevice Nozzle, Filter Bag, Hose/Cable Hook, Standard Cartridge, Tube Holder Kit, Universal Nozzle, Wet/Dry Floor Nozzle	Nilfisk	107406622	**32FW88**
Wet/Dry	9 gal	Plastic	1 ¼ in	101 cfm	1 5/16	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X605	**20X605**
Wet/Dry	11 gal	Plastic	1 ¼ in	150 cfm	1 ¼	Accessory Storage, Cartridge Filter, Disposal Bag, Paper Filter Bag	Nilfisk	107412125	**53UE35**
Wet/Dry	15 gal	Staless Steel	1 ½ in	80 cfm	3	1½ in Cleaning Kit, 7 ft Lock-on(R) Hose, Foam Sleeve, Large Tank Drain, Metal Transport Handle, On-Board Tool Storage, Platform 4-Wheel Dolly with (2) 10 in Rear Wheels, Polyester Full-cloth Filter, Squeegee Insert, Ultra Duty Cartridge Filter with Nanofiber Media, Utility Nozzle	Dayton	22XJ50	**22XJ50**
Wet/Dry	16 gal	Plastic	1 ½ in	105 cfm	6 ½	(2) 1½ in Extension Wand, 10 in Squeegee Nozzle, 12 in Floor Nozzle, 5 in Unitality Nozzle, 6 in Utility Nozzle, Adapter, Round Brush	Shop-Vac	5811610	**55EX43**
Wet/Dry	18 gal	Plastic	1 ½ in	108 cfm	1 ⅝	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X608	**20X608**
HEPA Filtration									
Dry	3 ¼ gal	Alumum	1 ¼ in	87 cfm	1 ½	(2) Straight Steel Wands, 3 in Round Brush, 30 ft Cord, 5 in Upholstery Nozzle, Combination Floor Nozzle, Crevice Cove, Detachable Trolley, Paper Bags, Plastic Hose	Nilfisk	01790129	**34AY97**
Dry	13 gal	Steel	2 ¾ in	198 cfm	2 45/64	Polyester Star Filter	Nilfisk	1-S2N1	**22N462**
Dry	26 gal	Steel	2 ¾ in	270 cfm	3 13/64		Nilfisk	1-S3/100N1	**22N467**
Wet/Dry	5 ¼ gal	Staless Steel	1 ¼ in	127 cfm	1 ⅜	(2) Aluminum Tubes, 11.5 ft Hose, Crevice Nozzle, Filter Bag, HEPA Cartridge, Tube Holder Kit, Universal Nozzle, Wet/Dry Floor Nozzle	Nilfisk	107419096	**32FW86**
Wet/Dry	8 gal	Plastic	1 ¼ in	148 cfm	1 5/16	Accessory Storage, Cartridge Filter, Disposal Bag, Paper Filter Bag	Nilfisk	107412176	**53UE32**
Wet/Dry	12 gal	Plastic	2 in	130 cfm	1 ⅜	Accessory Kit	Nilfisk	107412640	**39UD67**
Wet/Dry	18 gal	Plastic	1 ½ in	108 cfm	1 ⅝	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X609	**20X609**
Replacement Parts, Accessories and Bags									
Vacuum Adapter for Nos. 32FW88 and 32FW86							Nilfisk	107409977	**32FX07**
Vacuum Hose for Nos. 32FW88 and 32FW86							Nilfisk	107409976	**42EW44**
Crevice Tool for No. 20X605							Mi-T-M	33-0412	**25GR56**
Anti-Static Vacuum Hose for Nos. 53UE35 and 53UE32							Nilfisk	107413543	**53UE41**
Extension Wand for Nos. 53UE35 and 53UE32							Nilfisk	107408074	**174W44**
Vacuum Hose for No. 55EX43							Shop-Vac	9062500	**55EX48**
Extension Wand for No. 53UE32							Nilfisk	302000529	**12A513**
Bag Refill for Nos. 22N462 and 22N467							Nilfisk	4084000956	**33JG50**
Crevice Tool for No. 20X609							Mi-T-M	33-0326	**25GR51**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Tornado® GUARDAIR

Pneumatic Industrial Drum Vacuums

Drum vacuums operate on a compressed-air supply to suction dust and dirt or liquid spills into their drum for disposal. They withstand high-frequency use and reduce the risk of downtime since they have no electric motor to burn out. These air-powered vacuums are commonly connected to air compressors at construction sites or pneumatic hoses in manufacturing facilities.



No. 36NL99


No. 32EY90


No. 3PXN3

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Includes	Brand	Mfr. Model	Item No.
Drum Vacuums									
Standard Filtration									
Wet	55 gal	Steel	2 in	160 cfm	2 in Quick Connect	Dual Venturi Powerheads, Four Wheel Steel Dolly	Tornado	95961	**36NL99**
Wet/Dry	5 gal	Steel	1 ¼ in	56 cfm	⅜ in FNPT	9 in Plastic Crevice Tool, 1.25 in x 10 ft Standard Duty Vacuum Hose, 19 in Plastic Wand, 3 in Round Brush Tool, 5 in Wide Plastic Utility Tool	Guardair	N051MC	**422V54**
Wet/Dry	5.5 gal	Plastic	½ in	73 cfm	⅜ in Quick Connect	Hose, Crevice Tool, Gasket, Exhaust Bag and Cartridge Filter, 1½ in ID x 10 ft Vacuum Hose	Guardair	MV2000	**33J775**
Wet/Dry	10 gal	Steel	1 ¼ in	61 cfm	⅜ in FNPT	10 gal Drum, Standard Cartridge Filter, ⅜ in x 12 ft Coiled Air Hose, 1.25 in x 10 ft Standard Duty Vacuum Hose, 9 in Plastic Crevice Tool, 19 in Plastic Wand, 3 in Round Brush Tool, 5 in Wide Plastic Utility Tool	Guardair	N101MC	**422V56**
Wet/Dry	10 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Air Hose ½ in x 20 ft, 1½ in x 20 ft Standard Duty Vacuum Hose, 11 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N101SC	**422V57**
Wet/Dry	18 gal	Stainless Steel	1 ½ in	50 cfm	½ in Quick Connect	—	Tornado	98697	**32EY90**
Wet/Dry	18 gal	Stainless Steel	1 ½ in	83 cfm	1½ in Quick Connect	Venturi Powerhead, Tip and Pour Carrier	Tornado	95953	**36NL98**
Wet/Dry	20 gal	Steel	1 ½ in	60 cfm	½ in FNPT	Air Hose ¾ in x 20 ft, 1½ in x 20 ft Standard Duty Vacuum Hose, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201DC	**422V58**
Wet/Dry	20 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Air Hose ½ in x 20 ft, 24 in Metal Crevice Tool, 1½ in x 20 ft Standard Duty Vacuum Hose, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201SC	**422V59**
Wet/Dry	30 gal	Steel	1 ½ in	60 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in X 20 ft Air Supply Hose with Fittings	Guardair	N301DC	**3PXN2**
Wet/Dry	30 gal	Steel	2 in	89 cfm	½ in FNPT	30 gal Vacuum Generating Head, 4 ft Aluminum Wand with 12 in Wide Floor Tool, 2 in x 20 ft Standard Duty Vacuum Hose, 24 in Metal Crevice Tool, Standard Cartridge Filter, (3) Retaining Spring, ¾ in x 20 ft Air Hose, 30 gal Steel Drum, 30 gal Drum Dolly	Guardair	N301BC	**3PXN1**
Wet/Dry	55 gal	Steel	2 in	89 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in X 20 ft Air Supply Hose with Fittings	Guardair	N551BC	**3PXN3**
Wet/Dry	55 gal	Steel	2 in	163 cfm	¾ in FNPT		Guardair	N552BC	**3PXN4**
Accessories									
Dolly Carrier Jumbo 4-Wheel for No. 36NL99							Tornado	98088	**24UL14**
Exhaust Silencer Insert Foam for Nos. 422V57, 422V58 and 422V59							Guardair	N686	**3PXP1**
Adapter Assembly for No. 32EY90							Tornado	90480	**24UL90**
Floor Tools and Nozzles for Nos. 422V57, 422V58 and 422V59							Guardair	N692	**3PXR7**
Maintenance Kit for Nos. 3PXN2 and 3PXN1							Guardair	NMK30	**5JJD4**
Maintenance Kit for Nos. 3PXN3 and 3PXN4							Guardair	NMK55	**5JJD3**
3/4" x 20 ft. Air Supply Hose for Nos. 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N606	**5JJC7**
Cartridge Filter for Nos. 3PXN2 and 3PXN1							Guardair	N635	**3PXP2**
Cartridge Filters, Pkg. of 6 for Nos. 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635PK	**3PXP3**
Vacuum Bags for Nos. 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635B	**3PXP5**
Cartridge Filter for Nos. 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635H	**3PXP7**
2" Vacuum Attachment Kit for No. 3PXN3							Guardair	NSVK20	**5JJC9**
Vacuum Hose, 2" x 20-ft. for Nos. 3PXN1, 3PXN3 and 3PXN4							Guardair	N67020	**3PXP8**
20" Plastic Extension Wand for No. 3PXN4							Guardair	N842	**5JJF1**
3" Dia. Plastic Dust Brush for No. 3PXN4							Guardair	N843	**5JJF2**
9" Plastic Crevice Tool for No. 3PXN4							Guardair	N849	**5JJF3**
Hose Connector for Nos. 3PXN1, 3PXN3 and 3PXN4							Guardair	N671	**3PXR1**
55-gal. Dolly Assembly for Nos. 3PXN3 and 3PXN4							Guardair	N668	**5JJC8**

GUARDAIR NORTECH PNEUMATIC VACUUM PRODUCTS

Static-Conductive Pneumatic Drum Vacuums

- **Wet/Dry pickup**

Drum vacuums with static-conductive components suppress the buildup of electrical charges, which can cause nuisance shocks. They're ideal for vacuuming talc, powders, and other substances that can generate static electricity. They operate on a compressed-air supply to suction dust and dirt or liquid spills into their drum for disposal. These air-powered vacuums withstand high-frequency use and reduce the risk of downtime since they have no electric motor to burn out. They're commonly powered by air compressors at construction sites or pneumatic hoses in manufacturing facilities.


No. 210AW1


No. 422V65


No. 3PXT3

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Includes	Brand	Mfr. Model	Item No.
Drum Vacuums								
Standard Filtration								
5.5 gal	Steel	1 ½ in	73 cfm	⅜ in FNPT	Mounting Plate, 1½ in x 10 ft Hose, Crevice Tool, 20 ft Air Hose, Grounding Lug	Guardair	MV2000NED	**210AW1**
20 gal	Steel	1 ½ in	60 cfm	½ in FNPT	Static Conductive Air Hose ¾ in x 20 ft, 1½ in x 20 ft Static Conductive Vacuum Hose, 20 Gallon Drum Dolly, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201DCNED	**422V65**
20 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Static Conductive Air Hose ½ in x 20 ft, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201SCNED	**422V66**
30 gal	Steel	1 ½ in	60 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in X 20 ft Air Supply Hose with Fittings	Guardair	N301DCNED	**3PXT8**
30 gal	Steel	1 ½ in	89 cfm	¾ in FNPT		Guardair	N301BCXNED	**3PXT7**
30 gal	Steel	2 in	89 cfm	¾ in FNPT		Guardair	N301BCNED	**3PXT6**
55 gal	Steel	1 ½ in	60 cfm	¾ in FNPT		Guardair	N551DCNED	**3PXT5**
55 gal	Steel	1 ½ in	89 cfm	¾ in FNPT	4 ft Aluminum Wand with 12 in Wide Floor Tool, 1.5 in x 20 ft Static Conductive Vacuum Hose, 24 in Metal Crevice Tool, Standard Cartridge Filter, (3) Retaining Spring, Static Conductive Air Hose ¾ in x 20 ft, 55 gal Steel Drum, 55 gal Drum Dolly	Guardair	N551BCXNED	**3PXT4**
55 gal	Steel	2 in	89 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in X 20 ft Air Supply Hose with Fittings	Guardair	N551BCNED	**3PXT3**
55 gal	Steel	1 ½ in	163 cfm	¾ in FNPT		Guardair	N552BCXNED	**3PXT2**
55 gal	Steel	2 in	163 cfm	¾ in FNPT	12 in W Metal Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in X 20 ft Air Supply Hose with Fittings	Guardair	N552BCNED	**3PXT1**
Accessories								
Exhaust Silencer Insert Foam for Nos. 422V65, 422V66, 3PXT8, 3PXT6, 3PXT4, 3PXT2 and 3PXT1						Guardair	N686	**3PXP1**
Floor Tools and Nozzles for Nos. 422V65, 422V66, 3PXT7, 3PXT8, 3PXT4 and 3PXT2						Guardair	N692	**3PXR7**
Maintenance Kit for Nos. 3PXT8, 3PXT7 and 3PXT6						Guardair	NMK30	**5JJD4**
Maintenance Kit for Nos. 3PXT5, 3PXT4, 3PXT3, 3PXT2 and 3PXT1						Guardair	NMK55	**5JJD3**
12"W Aluminum Vacuum Attachment Kit for Nos. 3PXT6, 3PXT3 and 3PXT1						Guardair	N639	**5JJE2**
Static Conductive Standard for Nos. 422V65, 422V66, 3PXT7 and 3PXT4						Nortech	N653	**24JW61**
Static Conductive Standard Vacuum Hose for Nos. 3PXT6 and 3PXT1						Nortech	N654	**24JW62**
Vacuum Hose, 2" x 20-ft. for Nos. 3PXT6, 3PXT3 and 3PXT1						Guardair	N67020	**3PXP8**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Wall-Mount Shop Vacuums

Dayton

- Wet/Dry pickup

Vacuums attach to a wall in garages, shops, and other areas that require frequent cleanup of dust or liquid spills. They're accessible while conserving floor and storage space. Vacuums plug in to a standard wall outlet and can be detached from the wall to empty collected waste.



No. 13J020



No. 4TB90

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	No. of Motor Stages	Item No.
Vacuums						
Standard Filtration						
3 ½ gal	Plastic	1 ¼ in	52 cfm	3 ½	1	**13J020**
5 gal	Plastic	1 ½ in	120 cfm	5 ½	1	**13J021**
HEPA Filtration						
6 gal	Stainless Steel	1 ½ in	85 cfm	2	2	**4TB90**

Description	Filtration Type	Item No.
Vacuum Bags and Filters		
Vacuum Bags for No. 13J020, Pkg. of 5	Standard	**13J022**
Vacuum Bags for No. 13J021, Pkg. of 5	Standard	**13J023**
Vacuum Bags for No. 4TB90, Pkg. of 5	Standard	**3UP65**
Disc Filters for No. 13J021, Pkg. of 3	Standard	**6H008**
Cartridge Filter for Nos. 13J020 and 13J021	Standard	**4TB95**
Cartridge Filter for Nos. 13J021 and 4TB90	HEPA	**4TB93**
Cartridge Filter for Nos. 13J020 and 13J021	HEPA	**6AKY8**
Sleeve Filter for No. 4TB90	Standard	**5X879**

Built-In-Pump Vacuums

DRIEAZ Nilfisk Dayton

Combine a wet/dry vacuum for cleaning up dust, dirt, or liquid spills and a pump for transferring large volumes of water. They can suction debris or liquids into the tank like a standard shop vacuum or can connect to a garden hose to pump water through the hose as it's suctioned into the vacuum. This pumping feature eliminates the need to empty the tank when clearing water from flooded basements or broken pipes.

No. 39C364 quickly removes water from flooded structures. **No. 10W854** operates in three modes: vacuum only, pump only, or vacuum and pump. **No. 4TB87** easily converts from wet/dry vacuum to pump operation.

Note: No. 4TB87 is not intended for use as a continuous running pump.



No. 39C364



No. 10W854



No. 4TB87

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	No. of Motor Stages	Includes	Brand	Mfr. Model	Item No.
HEPA Filtration										
Wet	12 gal	Plastic	2 in	100 cfm	5	2	25 ft Section of 2 in Vacuum Hose with Cuffs	Dri-Eaz	F479	**39C364**
Standard Filtration										
Wet	19 gal	Steel	1 ½ in	140 cfm	1 ⅜	1	25 ft Discharge Hose, Curved Wand, Extension Tube, Filter Cartridge, Industrial Squeegee, Sump Pump	Nilfisk	M60004	**10W854**
Wet/Dry	18 gal	Plastic	2 ½ in	135 cfm	6	1	(2) Extension Wands, 14 in Wet/Dry Floor Nozzle, 8 ft x 2½ in Hose, 8 in Rear Wheel Tool Basket/Dolly, Built-In Water Pump, Concentrator Nozzle, Crevice Tool, Elbow Grip, Foam Sleeve, Front Caster Feet, Heavy- Duty Cartridge Filter, Metal Transport Handle, Utility Nozzle	Dayton	4TB87	**4TB87**

Corded Dust Extractors

Fein Dustless Technologies DEWALT BOSCH

- Wet/Dry pickup

Plug extractors into an outlet near machinery and power tools to collect dust from cutting, sanding, and grinding operations. They are commonly used in workshops, factories, and other locations. Dust extractors draw in dust as it's produced by machinery to help prevent dust from becoming airborne or accumulating on floors, surfaces, and tools.



No. 31LZ13



No. 30RV82



No. 19TT53

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	No. of Motor Stages	Includes	Brand	Mfr. Model	Item No.
Standard Filtration									
5 ¾ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	Filter, Fleece Filter Bag, Tool Coupling with Suction Force Reducer	Fein	92027236090	**31LZ13**
8 ½ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	(2) Extension Tubes, Brush, Crevice, Filter, Fleece Filter Bag, Floor Brush, Handle, Tool Coupling with Suction Force Reducer	Fein	92028060090	**31LZ14**
8 ½ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	Filter, Filter Bag, Suction Hose, Tool Coupling with Suction Control	Fein	92028236090	**31LZ16**
16 gal	Plastic	2 ¼ in	130 cfm	5	1	(2) Extension Wands, (2) Wunderbag Micro Pre-Filters, 12 ft Hose, Crevice Tool, Floor Tool, Inner Filter, outer Filter	Dustless Technologies	D1603	**35YK86**
HEPA Filtration									
8 gal	Plastic	1 ¼ in	150 cfm	1 ⅞	1	(2) HEPA Filter, Anti-Static Hose	DeWalt	DWV010	**30RV82**
8 ½ gal	Plastic	1 ⅜ in	155 cfm	1 ½	2	(2) Metal Extension Tubes, 13 ft Hose, Adaptor, Brush, Crevice Tool, Disposable Bag, Elbow, HEPA Filter, Push Handle, Tool Coupling	Fein	TURBO X AC HEPA	**54FH44**
9 gal	Plastic	1 ⅜ in	150 cfm	—	2	Airsweep 9 gal Auto Filter Clean Dust Extractor, HEPA Filter	Bosch	VAC090AH	**19TT53**
9 gal	Plastic	1 ⅜ in	150 cfm	—	2	Airsweep 9 gal Semi-Auto Filter Clean Dust Extractor	Bosch	VAC090S	**19TT54**
10 gal	Plastic	1 ¼ in	155 cfm	1 ⅞	—	(2) HEPA Filter, Anti-Static Hose	DeWalt	DWV012	**38A867**
16 gal	Plastic	2 ¼ in	131 cfm	5	1	(2) Certified HEPA Filter and HEPA Filter Cover, (2) Extension Wands, 12 ft Hose, 16 gal Canister, Crevic Tool, Floor Tool	Dustless Technologies	D1606	**36TU92**

Cordless Dust Extractors

DEWALT

Extractors run on battery power and connect to stationary or handheld power tools to collect dust from cutting, sanding, and grinding operations. They're commonly used at remote jobsites and locations where a power outlet isn't available. Dust extractors draw in dust as it's produced by machinery to help prevent dust from becoming airborne or accumulating on floors, surfaces, and tools.



No. 55AC72



No. 492P06

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Includes Battery	Includes	Mfr. Model	Item No.
HEPA Filtration								
Dry	0.06 gal	Plastic	—	—	Yes	(2) Batteries, Belt Hook, Charger, Shoulder Strap	DWH161D1	**55AC72**
Dry	0.06 gal	Plastic	—	—	No	Belt Hook, Shoulder Strap	DWH161B	**55AC73**
Wet/Dry	2 gal.	Plastic	1¼"	125 cfm	Yes	Dust Extractor, Wireless Tool Control™ Remote, Fleece Bag, (2) HEPA Filters, Battery	DCV585B/ DCB606	**337ZX1**
Wet/Dry	2 gal	Plastic	1 ¼ in	125 cfm	Yes	Wireless Tool Control™ Remote, Fleece Bag, (2) HEPA Filters	DCV585T2	**492P05**
Wet/Dry	2 gal	Plastic	1 ¼ in	125 cfm	No	Dust Extractor, Wireless Tool Control™ Remote, (1) Fleece Bag, (2) HEPA Filters	DCV585B	**492P06**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Dayton

Detachable Blower Vacuum



- Wet/Dry pickup

Vacuum is equipped with a removable motor unit that doubles as a handheld blower. Picks up dust and dirt or liquid spills when used as a vacuum and move leaves, yard clippings, and other debris when used as a blower. Standard collection bag traps fine dust. The rustproof, dent-resistant tank withstands heavy-duty use and resists damage during transport.

Vacuum Filtration Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Item No.
Standard	18 gal	Plastic	2 ½ in	105 cfm	6 ½	**3VE22**

Dayton

2-In-1 Vacuum



- Wet/Dry pickup

Features a large vacuum tank for big cleanups and a portable vacuum unit that detaches from the tank for small cleanups. It adjusts to the size of the job, so there's no need to have separate full-size and portable shop vacuums. This wet/dry vacuum picks up dust and dirt or liquid spills. Its filter traps dust and contaminants to prevent them from recirculating during vacuuming.

Vacuum Filtration Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Item No.
Standard	16 gal	Stainless Steel	1 ¼ in, 2 ½ in	120 cfm	6	**22XJ53**

Dayton

Ash Vacuum



Removes cold, dry ashes from boiler systems, wood and pellet stoves, coal stoves, and fireplaces. It has a steel-lined hose with a metal intake nozzle to reduce the risk of fire and a thermal protection device that shut offs the vacuum if temperatures exceed a preset level.

Vacuum Filtration Type	Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Item No.
HEPA	Dry	5 gal	Stainless Steel	1 ½ in	70 cfm	**22XJ65**

Milwaukee

Power-On-Demand Vacuum



Connects to a power tool for dust extraction and shuts off automatically when the tool shuts off. It has an outlet on the operating panel for plugging in power tools, so that the vacuum will run only when the power tool runs. It's used for collecting dust from cutting, sanding, drilling, and grinding tools. Vacuum also functions as wet/dry vacuums for cleaning dust and dirt or liquid spills.

Vacuum Filtration Type	Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Mfr. Model	Item No.
HEPA	Dry	8 gal	Plastic	1 ⅜ in	148 cfm	1 15/16	8960-20	**446P35**





Husqvarna

Slurry Vacuums

Suction up the mix of water and dust generated by concrete cutting, drilling, grinding, and sawing. They handle slurries, which are typically too heavy for standard wet/dry vacuums. Slurry vacuums help prevent hazardous dust from becoming airborne and keep slurry from clogging drains and entering sewage systems.

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Mfr. Model	Item No.
Standard Filtration							
Wet	15 gal	Stainless Steel	1 ½ in	118 cfm	1 ½ hp	W70P	**54FH67**
Wet/Dry	55 gal	Steel	1 ½ in	115 cfm	6 ½ hp	H0904	**48GP72**





GUARDAIR

Pneumatic Personnel Cleaning Stations

- Wet/Dry pickup

Vacuum dust, powders, and chips from workers' clothing and skin. Stations provide an alternative to dusting off with air guns, which generate potentially dangerous pressures that could cause eye or ear injuries. Powered by compressed air and have a brush attachment to loosen particles so they can be suctioned into the attached tank. Nonelectrical discharge (NED) protection suppresses static-charge buildup to allow use with combustible materials such as metal or coal dust, flour, grain, and sugar.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Mfr. Model	Item No.
Standard Filtration					
5.5 gal	Polyethene	1 ½ in	73 cfm	CS3000	**54TW95**
5.5 gal	Steel	1 ¼ in	73 cfm	CS3000NED	**210AW0**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®







Sanitaire · Hoover Commercial · Dayton

Bagless, Corded Upright Vacuums

- Dry pickup

Bagless, corded upright vacuums collect dirt, dust, and debris in their dirt cup or chamber for disposal. The see-through chamber shows the level of debris, so it can be cleared out when full to prevent reduced suction or an overheated motor. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.

Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Power Cord Length	Head Height Adjustment	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
12 in	120 cfm	14.0 lb	79 dB	30 ft	6-Position	—	Sanitaire	SC689B	**4LU78**
12 in	145 cfm	18.5 lb	79 dB	50 ft	6-Position	Removable Fan Chamber and Furnitrue Guard	Sanitaire	SC887E	**4WYR3**
13 ½ in	36.6 cfm	16.1 lb	79 dB	25 ft	5-Position	Crevice Tool, Dusting Brush, Extension Wand, Multi-Purpose Tool	Hoover	UH71100	**55XC10**
HEPA Filtration									
13 in	59 cfm	15.7 lb	Not Rated	35 ft	5-Position	Tools	Hoover	CH53010	**24Z197**
13 in	60 cfm	15.7 lb	83 dB	50 ft	5-Position	Tools	Dayton	24Z193	**24Z193**
13 in	135 cfm	17.0 lb	69 dB	40 ft	7-Position	Crevice Tool, Dusting Brush, Hose, Wand	Sanitaire	SC5745B	**48ME61**
15 in	42 cfm	16.7 lb	Not Rated	35 ft	3-Position	17 ft Long Crevice Tool, Attached Transparent Triple-stretch Hose, Dusting Brush, Extension Wand, Upholstery Nozzle	Hoover	C1660-900	**6END8**
15 in	135 cfm	18.0 lb	70 dB	40 ft	7-Position	10 ft Stretch Hose, Crevice Tool, Dusting Brush, Two-Piece Wand	Sanitaire	SC5845B	**4WYR2** *
Replacement Parts and Accessories									
Vacuum Cleaner Belts for Nos. 4LU78 and 4WYR3, Pkg. of 24							Sanitaire	66100-12	**487A26**
Vacuum Cleaner Belt for No. 4WYR3							Sanitaire	30563B	**23YU38**
Vacuum Cleaner Belts for No. 48ME61, Pkg. of 24							Sanitaire	66120-12	**487A27**
Vacuum Cleaner Belt for No. 24Z197							Hoover	440010033	**33Y506**
Vacuum Cleaner Belts for No. 6END8, Pkg. of 2							Hoover	40201190	**2YUY6**
Upright Vacuum Brush Roll, Chrome Steel for Nos. 4LU78 and 4WYR3							Sanitaire	53270A	**1AFY9**
HEPA Cartridge Filter for No. 4WYR2							Sanitaire	61840	**2TRL5**
Hose Adapter for No. 4WYR2							Sanitaire	71725-313N	**24YZ82**

**** CRI (Carpet and Rug Institute) Green Label approved.***









Bissell BigGreen Commercial · Sanitaire · Dayton · Oreck Commercial · Tennant · GA Grainger Approved

Bagged, Corded Upright Vacuums

- Dry pickup

Corded upright vacuums plug into an electrical outlet to lift dirt from carpet fibers. Reusable bags collect dirt, dust, and debris in bags that can be emptied and reused making it easy to recover small items (such as jewelry and toys). Disposable bags collect dirt, dust, and allergens in replaceable bags that are discarded when full. They minimize contact with collected debris since their disposable bags don't need to be shaken out like reusable bags or cleaned out like a dirt cup. Both types of bags act as filters to trap dust and allergens.

Vacuum Collection Type	Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Power Cord Length	Vacuum Capacity	Includes	Brand	Mfr. Model	Item No.
Vacuums										
Standard Filtration										
Reusable Bag	12 in	95 cfm	13.5 lb	67 dB	50 ft	2 gal	Nonstick Shakeout Dust Bag	Bissell	BG100	**36RE63**
Reusable Bag	12 in	105 cfm	14.5 lb	Not Rated	50 ft	2 gal	Magnetic Bar, Nonstick Shakeout Dust Bag	Bissell	BG101	**36RE64**
Reusable Bag	12 in	120 cfm	12.2 lb	78 dB	30 ft	4 ½ gal	—	Sanitaire	SC679K	**4WT59**
Reusable Bag	12 in	145 cfm	15.8 lb	79 dB	50 ft	4 ½ gal	Removable Fan Chamber and Large Rear Wheels for Easy Maneuverability	Sanitaire	SC886G	**3U712**
Reusable Bag	16 in	105 cfm	16.5 lb	Not Rated	50 ft	2 gal	Magnetic Bar, Nonstick Shakeout Dust Bag	Bissell	BG102	**36RE65**
Reusable Bag	16 in	145 cfm	17.0 lb	79 dB	50 ft	4 ½ gal	Removable Fan Chamber	Sanitaire	SC899H	**3U478**
Reusable Bag	19 in	200 cfm	19.0 lb	Not Rated	1 ½ ft	8 gal	7 in Wheels	Dayton	6H003	**6H003**
Disposable Bag	12 in	39 cfm	9.1 lb	Not Rated	40 ft	2 ¼ gal	Cloth Outer Bag	Oreck	U2000RB2L-1	**30RJ32**
Disposable Bag	12 in	108 cfm	8.0 lb	Not Rated	40 ft	2 ¼ gal	Easy-Use Carrying Handle	Oreck	U2000R-1	**36N094**
Disposable Bag	12 in	145 cfm	16.2 lb	69 dB	50 ft	1 ¼ gal	Removable Fan Chamber and Furnitrue Guard	Sanitaire	SC889B	**4WYR4** *
Disposable Bag	12 in	145 cfm	16.2 lb	79 dB	50 ft	1 ½ gal	Removable Fan Chamber	Sanitaire	SC888N	**1AFZ2** *
Disposable Bag	12 in	145 cfm	17.0 lb	79 dB	50 ft	1 ½ gal	Belt	Sanitaire	SC688B	**416J15**
HEPA Filtration										
Disposable Bag	12 in	39 cfm	8.0 lb	Not Rated	35 ft	2 ¼ gal	—	Oreck	XL2100RHS	**36N095**
Disposable Bag	12 in	39 cfm	8.0 lb	Not Rated	40 ft	2 ¼ gal	Cog V-Belt, Easy-Use Carrying Handle	Oreck	U2000RB-1	**36N096**
Disposable Bag	12 in	105 cfm	17.0 lb	68 dB	40 ft	1 ½ gal	On-Board Crevice Tool, Upholstery Brush, Wand	Sanitaire	SC5500A	**48XL30**
Disposable Bag	13 in	119 cfm	20.0 lb	68 dB	50 ft	1 gal	Telescopic Wand	Sanitaire	SC9180B	**1TGZ5** *
Disposable Bag	14 in	120 cfm	16.0 lb	70 dB	50 ft	1 gal	Dusting Brush, On-Board Crevice Tool, Telescopic Aluminum Wand	Tennant	1060829	**5PFR9** †
Disposable Bag	14 in	120 cfm	18.0 lb	70 dB	50 ft	1 gal	4:1 Stretch Hose, Crevice Tool, Dusting Brush, Spare Belt And Bag, Telescopic Aluminum Wand	Tennant	1068027	**15A756** †
Disposable Bag	15 in	135 cfm	18.0 lb	70 dB	40 ft	1 ½ gal	Crevice Tool, Dusting Brush, Hose, Wand	Sanitaire	SC5815D	**48ME62**
Disposable Bag	12 in	105 cfm	17.0 lb	68 dB	40 ft	1 gal	On-Board Crevice Tool, Upholstery Brush, Wand	Sanitaire	SC5505A	**487A25**
Replacement Parts and Accessories										
Vacuum Cleaner Bags for No. 36RE63								Bissell Commercial	2037857	**55HD92**
Cloth Vacuum Bag for No. 6H003								GA	8290940	**21CG59**
Snap-On/Snap-Off Disposable Bags for Nos. 36N095 and 36N096, Pkg. of 25								Oreck	PK800025	**4LB34**
Vacuum Cleaner Belt for Nos. 36RE63, 36RE64, 36RE65								Bissell Commercial	2037843	**36RE91**
Vacuum Cleaner Belt for Nos. 3U478, 4WYR4 and 1AFZ2								Sanitaire	30563B	**23YU38**
Vacuum Cleaner Belts for No. 5PFR9, Pkg. of 6								Tennant	9007772	**12H380**
Upright Vacuum Brush Roll, Chrome Steel for Nos. 4WT59, 3U712 and 1FZ2								Sanitaire	53270A	**1AFY9**
HEPA Cartridge Filter for No. 48ME62								Sanitaire	61840	**2TRL5**
Standard Cartridge Filter for No. 5PFR9								Tennant	9007746	**12H379**

**** CRI (Carpet and Rug Institute) Green Label approved. † CRI Silver Seal of Approval.***

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Bagless, Cordless Upright Vacuums

- Dry pickup

Operate without the limitations of a power cord to collect dirt and debris in their dirt cup or chamber for disposal. They typically have a see-through chamber that shows the level of debris, so it can be cleared out when full to prevent reduced suction or an overheated motor. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.

Makita Vacuums—2-stage filtration system. Floor nozzle aids in maneuverability and debris collection.

Hoover No. 24Z198—Patented WindTunnel® technology helps lift and remove dirt from carpets. Micro filtration system plus extra-wide cleaning path.





Description	Cleaning Path Width	Weight	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums							
Standard Filtration							
12V max CXT™, White—Delivers up to 21 min. of continuous use	8 ½ in	2.2 lb	No	(1) White Extension Attachment, (1) Floor Nozzle, (1) Crevice Nozzle, (1) White Crevice Nozzle Holder, (1) Pre-Filter, (1) Cloth Vacuum Filter	Makita	LC06ZW	**53RH09**
18V LXT®, White—Delivers up to 13 min. of continuous use	8 ½ in	2.7 lb	Yes	Battery, Charger, Ivory Extension Attachment, Floor Nozzle, Crevice Nozzle, Pre-Filter, Cloth Filter	Makita	XLC02RB1W	**14F055**
18V LXT®, Black—Delivers up to 13 min. of continuous use	8 ½ in	2.7 lb	Yes	(1) Pre-Filter, (1) Cloth Vacuum Filter, (1) 8 in Black Floor Nozzle, (1) Black Crevice Nozzle Holder, (1) 6 in Black Crevice Nozzle, (1) Black Extension Attachment	Makita	XLC02R1B	**420C75**
18V LXT®, White—Delivers up to 33 min. of continuous use	8 ½ in	2.7 lb	No	(1) White Extension Attachment, (1) Floor Nozzle, (1) Crevice Nozzle, (1) Pre-Filter, (1) Cloth Vacuum Filter	Makita	XLC02ZW	**5WFP4**
18V LXT®, Black—Delivers up to 33 min. of continuous use	8 ½ in	3.2 lb	No	(1) Pre-Filter, (1) Cloth Vacuum Filter, (1) 8 in Black Floor Nozzle, (1) Black Crevice Nozzle Holder, (1) 6 in Black Crevice Nozzle, (1) Black Extension Attachment	Makita	XLC02ZB	**402D40**
Taskvac Commercial	11 in	9.8 lb	Yes	(1)Filter Dual Layer Foam, (1) Compact Upright Belt	Hoover	CH20110	**24Z198**
Required Accessories							
Battery Charger for No. 53RH09					Makita	DC10WD	**46AD64**
Battery for No. 53RH09					Makita	BL1021B	**52KE43**
Battery and Charger Kit for Nos. 5WFP4 and 402D40					Makita	BL1850BDC1	**48WA65**
Battery for Nos. 5WFP4 and 402D40					Makita	BL1850B	**38XU33**
Battery Charger for Nos. 5WFP4 and 402D40					Makita	DC18RC	**4NNN4**

Bagged, Cordless Upright Vacuums

- Dry pickup

These vacuums have a disposable bag and operate without a power cord to trap dirt, dust, and allergens in replaceable bags that are discarded when full. These vacuums keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for use in healthcare and educational settings.

No. 45PC90 runs up to 12 min. LED indicator light for low battery and full bag. **No. 54XJ38** has 2-speeds, runs for up to 60 min., and uses paper or cloth bags. **No. 54YP40** runs up to 47 min. and features a battery life display. **No. 55EX06** has the option to go cordless for up to 72 min. or plug into an outlet. Includes 4-layer micro filter bag. **No. 488Z16** runs up to 50 min., and has automatic height adjustment. **No. 400H61** runs up to 45. min, has a 2-speed motor, and LED status indicator panel. **No. 55EX34** runs up to 49 min., has a 2-stage motor, and auto stop feature.





Description	Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
12V max	8 ½ in	33 cfm	1.9 lb	20 dB	Yes	(1) Paper Dust Bag, (1) Cloth Dust Bag, (1) Pipe, (1) Sash Nozzle Holder, (1) Sash Nozzle, (1) Nozzle, (1) AC Adapter	Makita	LC05	**45PC90**
LXT®	—	35 cfm	2.9 lb	—	No	Cloth Dust Bag, Crevice Tool, Extension, Filter, Floor Nozzle, Paper Dust Bags	Makita	XLC01ZB	**54XJ38**
QUICKBOOST™	13 in	60 cfm	12.4 lb	70 dB	Yes	Battery, Charger	Sanitaire	SC7500A	**54YP40**
FreeFlex	14 in	53 cfm	17.6 lb	75 dB	Yes	(2) Filters	Proteam	107499	**55EX06**
HEPA Filtration									
Lightweight Independence	10 in	60 cfm	11 lb	70 dB	Yes	(1)Spare Belt, (1)Bag	Nobles	1236915	**488Z16**
HUSHTONE™	13 in	81 cfm	16.5 lb	65 dB	No	Allergen Filter Bag, HEPA Final Filter	Hoover	CH95413	**400H61**
MPWR™	13 in	91 cfm	10.1 lb	71 dB	No	Belt, Filter Bag	Hoover	CH95519	**55EX34**
Required Accessories									
Battery and Charger Kit for No. 54XJ38							Makita	BL1820BDC1	**48WA63**
Battery for No. 54XJ38							Makita	BL1820B	**33RT41**
Battery Charger for No. 54XJ38							Makita	DC18RC	**4NNN4**
Battery for No. 400H61							Hoover	CH90040	**52AT97**
Charger for No. 400H61							Hoover	CH90002	**52AT98**
Battery Charger for No. 55EX34							Hoover	CH07150	**55EX38**
Li-Ion Battery for No. 55EX34							Hoover	CH17360	**55EX37**

Stick Sweepers

Floor sweepers pick up dust and debris from carpeting as well as hardwood, tile, or vinyl flooring. They have a slim cleaning head and a pivoting handle for cleaning under furniture and machinery. Their quiet operation makes them suitable for use in hotels and hospitality environments.

Rubbermaid Sweepers—Corner brushes help clean tight spots. **No. 5M865** cleans bare floors and low-pile carpets. **No. 5M867** has a low profile for cleaning under furniture on a variety of floor surfaces. **No. 4HC27** includes soft bumpers to product furniture on bare floors or low-pile carpets.

Bissell Sweepers—Nos. 36RE54–36RE56 include dual-debris canisters, plus corner brushes for hard-to-reach areas on bare floors and low-pile carpets. **No. 36RE53** is battery-operated with a 90-min. run time. Roller brush sweeps dirt into its dustpan.



Cleaning Path Width	Sweeper Power Source	Sweeping Mechanism	Sweeping Mechanism Material	Body Material	Brand	Mfr. Model	Item No.
6 ½ in	Manual	Single Brush	Crimped Nylon	Plastic, Steel	Rubbermaid	FG421288BLA	**5M865**
7 ½ in	Manual	Brushless	Rubber	Plastic, Steel	Rubbermaid	FG421588BLA	**5M867**
7 ½ in	Manual	Dual Brush	Crimped Nylon, Natural Boar	Plastic, Steel	Rubbermaid	FG421388BLA	**4HC27**
7 ½ in	Manual	Single Brush	Nylon	Plastic	Bissell	BG25	**36RE54**
9 ½ in	Manual	Dual Brush	Nylon	Plastic	Bissell	BG23	**36RE55**
9 ½ in	Manual	Dual Brush	Rubber	Plastic	Bissell	BG21	**36RE56**
11 in	Battery-Operated	Single Brush	Nylon	Plastic	Bissell	BG9100NM	**36RE53**

Scan. Order. Done.
Details on page A1.

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®



No. 38EW21

ProTeam Cleaning for Health® Since 1987 | BISSELL BigGreen Commercial | Hoover Commercial | ATRIX | NOBLES | Nilfisk

Bagged, Corded Backpack Vacuums

- Dry pickup

Vacuums trap dirt, dust, and allergens. Debris is contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings.

Vacuum Collection Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes	Brand	Mfr. Model	Item No.
Vacuums								
Standard Filtration								
Reusable Bag	106 cfm	10 lb	68 dB	1 ½ gal	13 in Curved 1.25 in Wand in Button Lock, 24 in -40 in Telescoping Wand, 13 in Crevice Tool, Upholstery Tool, Dust Brush, Cuff Adapter, 12 in Carpert Tool with Scallops, 4 ft Static-Dissipating 1.5 in Hose, (2) Filter Bags, 50 ft Extension Cord	Proteam	103024	**5TZH8**
	150 cfm	10 lb	67 dB	1 ½ gal	42 in to 59 in Telescoping 1.5 in Wand, 14 in Xover Multi-Surface Floor Tool, 17 in Crevice Tool, 3 in Dust Brush, 5 in Upholstery Tool, 4 ft Static-Dissipating 1.5 in Hose, (2) Filter Bags, 50 ft Extension Cord	Proteam	107118	**33KE27**
	153 cfm	11.6 lb	70 dB	1 ½ gal		Proteam	107310	**38EW21**
	153 cfm	12 lb	70 dB	2 ½ gal		Proteam	107303	**38EW20**
	120 cfm	9.5 lb	68 dB	1 ½ gal	Scalloped Face Rug Tool, Bristle Floor Brush, Round Dusting Brush, Upholstery Tool with Slide On Brush, Crevice Tool, Paddle Tool, (2) Extension Wands	Bissell Commercial	BG1006	**36RE51**
Disposable Bag	150 cfm	11 lb	66 dB	2 ½ gal	14 in ProBlade Carpet, ProBlade Hard Surface, Straight Telescoping Wand, 17 in Crevice Tool, 3 in Dusting Brush, 5 in Upholstery Tool, (2) Filters	Proteam	107604	**55EX08**
	150 cfm	11 lb	66 dB	2 ½ gal	42 in to 59 in Telescoping 1.5 in Wand, 14 in Xover Multi-Surface Floor Tool, 17 in Crevice Tool, 3 in Dust Brush, 5 in Upholstery Tool, 4 ft Static-Dissipating 1.5 in Hose, (2) Filter Bags, 50 ft Extension Cord	Proteam	107119	**33KE26**
HEPA Filtration								
	92 cfm	11.7 lb	68 dB	1 ½ gal	Intercept Micro Filter Bag	Hoover	CH34006	**48WK14**
	106 cfm	10 lb	68 dB	1 ½ gal	Telescopic Tube, Dusting Brush, Crevice Tool, Blowing Attachments, Pet Hair Remover, Floor to Carpet Brush, Turbo Brush	Atrix	BP50-G	**21AD04**
	111 cfm	13 lb	68 dB	1 ½ gal	(4) Stage HEPA Filtration, Deuter Branded Hiking Harness, 14 in Hard Floor Tool, 14 in Carpet Floor Tool, 15 ft Crush Proof 4:1 Stretch Hose and Robust, Robust Chrome Telescoping Wand, Dust Brush, Crevice And Upholstery Tool	Nobles	9013477	**45NY78**
Disposable Bag	111 cfm	13.5 lb	67 dB	2 ½ gal	(4) Stage HEPA Filtration, Deuter Branded Hiking Harness, 14 in Hard Floor Tool, 14 in Carpet Floor Tool, 15 ft Crush Proof 4:1 Stretch Hose, Robust Chrome Telescoping Wand, Dust Brush, Crevice and Upholstery Tool	Nobles	9013485	**45NY75**
	120 cfm	9.2 lb	66 dB	1 ½ gal	57 in 2-pc. Two Bend Aluminum Wand with Button Lock, 17 in Crevice Tool, 14 in Floor Tool, 14 in All Purpose Floor Tool, 2½ in Dusting Brush, 5 in Upholstery Tool and Adapter	Hoover	C2401	**6ENE2**
	139 cfm	10.8 lb	62 dB	2 ½ gal	HEPA Filter, Sack Filter, Dust Bag, Curved Plastic Tube, Telescoping Wand, Floor Nozzle, Dust Brush, Crevice Cone, (5) Dust Bags	Nilfisk	9060709010	**4NFP4**
Vacuum Bags, Tool Kit and Filter								
Standard Intercept Micro Filter Vacuum Bags, 6 qt., Open Collar for No. 33KE27, Pkg. of 10						Proteam	100431	**2RKX4**
Standard Intercept Micro Filter Vacuum Bags, 10 qt., Open Collar for No. 33KE26, Pkg. of 10						Proteam	100331	**2RKX8**
Standard Intercept Micro Filter Vacuum Bags, 6 qt., Triangular Open Collar for No. 38EW21, Pkg. of 10						Proteam	107314	**35XE92**
Standard Intercept Micro Filter Vacuum Bags, 10 qt., Triangular Open Collar for No. 38EW20, Pkg. of 10						Proteam	107313	**38EW27**
HEPA Vacuum Bags for No. 21AD04, Pkg. of 10						Atrix	VACBP6-10P	**21AD05**
Standard Bags, 10-qt., for Nos. 45NY78 and 45NY75, Pkg. of 12						Nobles	9009380	**21ML41**
Standard Disposable Bags for No. 4NFP4, Pkg. of 5						Nilfisk	1471097500	**4RYH9**
6-Piece Tool Kit for No. 4NFP4						Nilfisk	M70037	**4RXZ1**
HEPA Replacement Upstream Filter for No. 4NFP4						Nilfisk	1471104500	**4RYF7**



No. 484X12

Bagless, Cordless Backpack Vacuums

Milwaukee

- Dry pickup

Rest on your back and operate without the limitations of a power cord to collect dirt and debris in their dirt cup or chamber for disposal. The chamber also allows small items to be recovered from the collected debris. Vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor. Brushless motor has the suction power to clean up drywall dust, concrete dust, and wood/metal shavings.

Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Mfr. Model	Item No.
Vacuums							
HEPA Filtration							
55 cfm	15.2 lb.	76dBA	1 gal	Yes	Charger, 6 ft. Hose, HEPA Filter, Extension Wand, Crevice Tool, Floor Tool, Dust Extractor Adapter	0885-21HD, 48-11-1880	**338AP3**
55 cfm	15.2 lb	76 dB	1 gal	No	(1) 6 ft Flexible Hose, (1) HEPA Filter, (1) Telescoping Extension Wand,	0885-20	**484X11**
55 cfm	15.2 lb	76 dB	1 gal	Yes	(1) Crevice Tool, (1) Floor Tool, (1) Dust Extractor Adapter	0885-21HD	**484X12**
57 cfm	15.3 lb.	74dBA	1 gal	Yes	3-in-1 Backpack Vacuum, (2)Battery Pack, Charger, HEPA Filter, Flexible Hose, Telescoping Extension Wand, Floor Tool, Crevice Tool, Dust Extraction Adapter	0885-21HD, 48-11-1890	**643F80**
Replacement Parts/Required Accessories							
M18™ Battery for Nos. 338AP3, 484X11, 484X12 and 643F80						48-11-1890	**45KM67**
Battery Charger for Nos. 338AP3, 484X11, 484X12 and 643F80						C18C	**4LER8**



No. 35MM76



No. 55EX31

Bagged, Cordless Backpack Vacuums

ProTeam Cleaning for Health® Since 1987 | Makita | ATRIX | Hoover Commercial | NOBLES

- Dry pickup

Vacuums rest on your back and operate without the limitations of a power cord to trap dirt, dust, and allergens. They keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings.

Vacuum Collection Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Reusable Bag	58 cfm	15.5 lb	64 dB	1 ½ gal	Yes	Hose, Battery, (2) Intercept Micro Filter Bag, Soft Dusting Brush, Upholstery Tool, Crevice Tool, ProBlade Carpet Floor Tool, ProBlade Hard Surface Floor Tool, Straight Telescoping Wand, Battery Charger	Proteam	107647	**55NN81**
	58 cfm	17.5 lb	64 dB	1 ½ gal	Yes		Proteam	107645	**55NN80**
HEPA Filtration									
Disposable Bag	53 cfm	9.4 lb.	70dBA	½ gal	No	Filter Bag Set, HEPA Filter, Hose Band, Floor Nozzle, Nozzle Set, Bent Pipe Assembly, Telescopic Pipe Assembly, Hose Coupler	Makita	XCV05Z + 123636-9	**170H38**
	71 cfm	18.5 lb	65 dB	2 gal	Yes	Hose, Blower Adapter, Exhaust Filter Cover, Extension Wand, Set of 3 Blower Nozzles, Furniture Nozzle, Crevice Tool, Round Brush, Floor Brush, Air Driven Turbo Brush, HEPA Bag, Shakeout Bag, Battery, Charger	Atrix	VACBP36V-GR	**35MM76**
	81 cfm	9.9 lb	71 dB	1 ½ gal	No	Hose, Wand, Dusting Brush, Bag, (2) HEPA Filters, (2) Hexaguard Filters	Hoover Commercial	CH93619	**55EX31**
	70 cfm	19.0 lb	63 dB	1 ½ gal	Yes	(4) Stage HEPA Filtration, (1) Hiking Harness, (1) 14 in Hard Floor Tool, (1) 14 in Carpet Floor Tool, (1) 15 ft Crush Proof 4:1 Stretch Hose, (2) Lightweight Aluminum Wands, (1) Dust Brush, (1) Crevice Upholstery Tool	Nobles	9017568	**488Z13**
Accessories									
Vacuum Battery Charger for No. 35MM76							Atrix	BPCHG	**35MM77**
Vacuum Battery Replacement for No. 35MM76							Atrix	BPBAT	**35MM78**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Sanitaire ProTeam Cleaning for Health® Since 1987 ATRIX Nilfisk BISSELL BigGreen Commercial

Bagged, Corded Canister Vacuums

- Dry pickup

Vacuums trap dirt, dust, and allergens in replaceable bags that are discarded when full. They keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings. These vacuums have a lightweight wand for cleaning and a canister that houses the electric-powered motor and holds the collected debris.

No. 30RR52 cleans hard surfaces, carpet, furniture, and above-floor areas. **No. 33KE24** has a large filter capacity to allow users to clean with less downtime. **No. 48ME63** is compact for increased portability and maneuverability. **No. 33KE28** includes a restaurant tool kit for cleaning up food scraps and dining room debris. **No. 9RY02** has a large capacity for mold, lead, or asbestos remediation. **No. 566G94** is HEPA safe for immediate containment in hazardous particulate applications. **No. 36RE57** comes with on-board cleaning tools for carpets, upholstery, and more.



Vacuum Capacity	Weight	Sound Level	Vacuum Air Flow	Power Cord Length	Includes	Brand	Mfr. Model	Item No.
Standard Filtration								
½ gal	10.0 lb	71 dB	135 cfm	20 ft	(2) Metal Wands, Blower Port, Floor Brush, Crevice Tool, Dust Brush	Sanitaire	SC3683D	**48ME63**
1 gal	14.4 lb	68 dB	68 cfm	32 ft	Combo Carpet/Bare Floor Tool, Dusting Brush, Crevice Tool, 2-pieces Metal Wand	Sanitaire	SC3700A	**30RR52**
2 ½ gal	12.0 lb	55 dB	124 cfm	4 ft	(2) Intercept Micro Filter Bag, Soft Dusting Brush, Upholstery Tool, Crevice tool, Xover Floor Tool, Telescoping Wand, Literature Kit	Proteam	107152	**33KE24**
2 ½ gal	12.0 lb	66 dB	150 cfm	4 ft	(2) Intercept Micro Filter Bag, 14 in Hard Floor Tool with Nylon Brush, 14 in Carpet Tool with Scallops, 5 in Upholstery Tool, 3 in Dust Brush, 11 in Crevice Tool, (2) 56 in Aluminum Wand, 1½ in x 78 in Static-Dissipating Vacuum Hose	Proteam	103220	**33KE28**
HEPA Filtration								
1 gal	10.9 lb	73 dB	99 cfm	25 ft	Crevice Tool, Crevice Tool Brush, Utility Nozzle, Utility Nozzle Brush, Wand, Clear Hose, Hose Plugs, (2) Adjustable Shoulder Straps	Atrix	VACOHCS	**566G94**
4 gal	16.5 lb	53 dB	74 cfm	35 ft	Dust Bag, Hose with Bent End Wand, Telescopic Aluminum Wand, Commination Floor Nozzle, Combination Round Brush/Upholstery Nozzle, Crevice Nozzle	Nilfisk	9055314040	**9RY02**
ULPA Filtration								
2 gal	24.0 lb	60 dB	106 cfm	50 ft	Crevice Tool, Upholstery Tool, Dusting Brush, Combination Floor Tool, ULPA Filter, HEPA Filter	Bissell Commercial	BGCOMP9H	**36RE57**

BISSELL BigGreen Commercial By Tennant Company

Bagless, Corded Canister Vacuums

- Dry pickup

Collect dirt, dust, and debris in their dirt cup or chamber for disposal. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor. They have a lightweight wand for cleaning and a canister that houses the electric-powered motor and holds the collected debris.



Nos. 55EX49 and **55EX50** quietly clean carpets and hard floors and prevent dust using three-stage standard filtration system. **No. 36RE58** is a handheld canister with maneuverable wheels that is both portable and powerful. **No. 55EX51** has a larger capacity, speed control, and a full bag indicator light.



Vacuum Capacity	Weight	Sound Level	Vacuum Air Flow	Power Cord Length	Includes	Brand	Mfr. Model	Item No.
Standard Filtration								
½ gal	11.0 lb	84 dB	106 cfm	18 ft	2-in-1 Floor Tool, (2) Extension Wands	Bissell Commercial	BGC2000	**36RE58**
2 ⅝ gal	9.0 lb	68 dB	61 cfm	26 ft	Main Polyester Filter, Hose Nozzle, Crevice Tool, Round Brush, Brush Floor Tool, Vacuum Hose, 2-Piece Wand	Tennant	1244294	**55EX49**
12 gal	13.9 lb	63 dB	92 cfm	40 ft	Exhaust Air Foam Filter, 2-Piece Wand, Hose Nozzle, Crevice Tool, Round Brush, Upholstery Tool, Adjustable Floor Tool	Tennant	1244302	**55EX50**
HEPA Filtration								
16 gal	14.3 lb	63 dB	92 cfm	40 ft	Exhaust Air Cartridge Filter, Telescopic Wand, Hose Nozzle, Crevice Tool, Round Brush, Upholstery Tool, Adjustable Floor Tool	Tennant	1244322	**55EX51**

Bagless, Cordless Canister Vacuum

Makita

- Dry pickup

Collects dirt, dust, and debris in its dirt cup or chamber for disposal. This bagless vacuum eliminates the need for replacement bags and relies on filters to trap dust and allergens and keep debris from entering the motor. Lightweight wand for cleaning. Canister houses the battery-powered motor and holds the collected debris. Delivers up to 64 min. of continuous operation. Requires No. 52YW51 Battery and Charger Kit, sold separately.



Description	Vacuum Filtration Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Mfr. Model	Item No.
Vacuum									
18V LXT®	HEPA	46 cfm	8.4 lb	64dBA	1⁄16 gal	No	Crevice Nozzle, Floor Nozzle, Shoulder Strap, Suction Hose, Telescoping Extension Attachment	DCL501Z	**53YK02**
Accessory									
18V LXT Battery and Charger Kit							(2) Batteries and Dual Charger	BL1850B2DC2	**52YW51**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Computer/Electronics/Data Vacuums

METROVAC ATRIX



No. 9TF54



No. 1VHH4

- Dry pickup

Remove dust and dirt buildup from computers, data equipment, and office machines to prevent damage or overheating. They provide an alternative to canned-air dusters for cleaning out keyboards and clearing dust from equipment-cooling fans. Include micro-cleaning attachments for adapting to different cleaning angles and getting into tight spaces.

DataVac® Pro Series are all-steel, high-tech vacuums/blowers that keep computers, printers, and office equipment functioning properly. **Express** is an ESD-safe vacuum for servicing and cleaning static-sensitive equipment. **Omega Supreme** is also ESD-safe and can be used for collecting hazardous debris such as lead dust, silica dust, and mold. Accessories store on lid.

Description	Vacuum Collection Type	Tank Size	Tank Material	Peak Horsepower	Vacuum Air Flow	Power Cord Length	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
DataVac Pro Series	Disposable Bag	0.33 qt	Steel	¾ hp	65 cfm	12 ft	Metrovac	MDV-1BA	**9TF54**
DataVac/2 Pro Series	Disposable Bag	0.75 qt	Steel	1 ⅛ hp	85 cfm	12 ft	Metrovac	MDV-2TAV	**54DG16**
DataVac/2 Pro Series	Disposable Bag	0.75 qt	Steel	1 ⅝ hp	100 cfm	6 ft	Metrovac	MDV-3TA	**5NJJ6**
DataVac Pro Series Toner Vac	Disposable Bag	0.75 qt	Steel	1 ⅛ hp	85 cfm	12 ft	Metrovac	MDV-2TCA	**16Z966**
HEPA Filtration									
Express	Bagless	0.25 gal	Plastic		79 cfm	12 ft	Atrix	VACEXP-04	**1VHH2**
Omega Supreme	Bagless	1 gal	Plastic	1 13/64 hp	99 cfm	12 ft	Atrix	VACOMEGASLFH	**1VHH4**
Filters, Bags and Accessories									
5 Replacement Bags and 2 Toner Filters for Nos. 9TF54, 54DG16, 5NJJ6 and 16Z966							Metrovac	TBF-7	**2TUY5**
Standard Cartridge Filter for No. 1VHH4							Atrix	31700-1P	**1VHH5**
HEPA Cartridge Filters for No. 1VHH2, Pkg. of 2							Atrix	730333	**1VHH3**
HEPA Cartridge Filter for No. 1VHH4							Atrix	OF612HE	**1VHH6**
ULPA Cartridge Filter for No. 1VHH4							Atrix	OF712UL	**2FTK6**

ESD-Safe Vacuums

METROVAC Nilfisk ATRIX



No. 4RXY7



No. 2FTK2

- Dry pickup

Vacuums dissipate static electricity to avoid damaging sensitive electronic equipment during cleaning. Also known as antistatic vacuums, they create a path for grounding static electricity to prevent discharges that could cause interruptions or failures of computers, printers, data equipment, robotic devices, and other electronics.

Use **No. 45RK33** as a vacuum/blower to remove dust, lint, hair, debris, and paper shreds from electronics. **No. 4RXY7** can be used in both portable and stationary applications with a 4-stage filtration system. **No. 2TUX8** is a complete antistatic vacuum, blower, and dusting system for electronics. **No. 2FTK2** has a bagless filter canister that is resealable and disposable. Captures large volumes of debris and particulate.

Description	Vacuum Collection Type	Tank Size	Tank Material	Peak Horsepower	Vacuum Air Flow	Power Cord Length	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
DataVac Pro	Disposable Bag	0.33 qt	Steel	¾ hp	65 cfm	12 ft	Metrovac	MDV-1ESD	**45RK33**
HEPA Filtration									
GM80	Disposable Bag	3.25 gal	Aluminum	1 ½ hp	80 cfm	30 ft	Nilfisk	01790132	**4RXY7**
DataVac ESD	Disposable Bag	0.75 qt	Steel	1 ¾ hp	100 cfm	12 ft	Metrovac	DV-3ESD1	**2TUX8**
High-Capacity	Bagless	7 gal	Plastic		99 cfm	12 ft	Atrix	HCVAC7H-ESD	**2FTK2**
Filters, Bags and Accessories									
5 Replacement Bags and 2 Toner Filters for Nos. 45RK33 and 2TUX8							Metrovac	TBF-7	**2TUY5**
HEPA Sleeve Filter for No. 4RXY7							Nilfisk	11730410	**4RYG6**
HEPA Cartridge Filter for No. 4RXY7							Nilfisk	01727631	**4RYF4**
HEPA Cartridge Filter for No. 2FTK2							Atrix	421-000-007	**2FTK3**
ULPA Filter Dry Vac Tool Kit for No. 4RXY7							Nilfisk	M70041	**4RYA2**
10-Ft. ESD Stretch Hose for No. 2FTK2							Atrix	31671	**2FTK4**
Hose Connector/Extender for No. 2FTK2							Atrix	SCHENG600	**2FTK5**

Cleanroom Vacuums

Nilfisk



No. 4NFP9

- Dry pickup

Disposable bag vacuums provide multiple stages of filtration for collecting fine dust and powders in cleanrooms, labs, and other controlled environments. They remove contaminants and other airborne particles to meet specific cleanroom standards. Capture the largest particles during the first stage of filtration and capture finer particles during the following stages. Their final filtration stage traps ultra-fine particles and prevents them from recirculating.

No. 4NFP9 has an extra-large filter, plus a thermal protection device to keep motor from overheating. Hose provides ESD protection. **Nos. 4RXY8** and **4RXY9** are compact and wheels make them easy to maneuver. **No. 4RXY8** can safely collect and contain potent compounds for disposal.

Description	Tank Size	Tank Material	Peak Horsepower	Vacuum Air Flow	Power Cord Length	Mfr. Model	Item No.
Vacuums							
ULPA Filtration							
GM80 CR	3.25 gal	Aluminum	1 ½ hp	80 cfm	30 ft	01790150	**4NFP9**
IVT 1000CR Safe-Pak	1.72 gal	Stainless Steel	1 ½ hp	72 cfm	30 ft	01798180	**4RXY8**
IVT 1000CR	3.25 gal	Stainless Steel	1 ½ hp	76 cfm	30 ft	01798070	**4RXY9**

Explosion-Proof Vacuums

Nilfisk



No. 54ZH11

These bagless vacuums are made of nonsparking materials to help prevent the ignition of combustible dust. They allow cleaning in areas where dry goods and other potential ignition sources are stored or processed. They're commonly used around products such as flour, starch, animal feed, light metals, coal, plastics, and textiles. All-in-one design safely collects and renders inert Group E metal dusts including aluminum, magnesium, and other commercial alloys.

Vacuum Pickup Type	Tank Size	Tank Material	Peak Horsepower	Vacuum Air Flow	Power Cord Length	Mfr. Model	Item No.
HEPA Filtration							
Dry	9.8 gal	Stainless Steel	1 ½ hp	103 cfm	30 ft	55100268	**54ZH12**
Wet	9.8 gal	Stainless Steel	1 ½ hp	103 cfm	30 ft	55100270	**54ZH11**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Electric Drum-Top Corded Vacuum Heads

Drum-top vacuum heads have an electric motor for connecting to an electric power source. They generate strong suction to draw wet or dry materials into an attached 55-gallon drum (No. 5ERH2 sold separately on page 1138).

Vacuum Pickup Type	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Static Pressure	Brand	Mfr. Model	Item No.
Standard Filtration							
Wet/Dry	1 ½ in	80 cfm	3	85 in	Dayton	4YE60	**4YE60**
Wet/Dry	1 ½ in	100 cfm	4	90 in	Dayton	4YE63	**4YE63**
Wet/Dry	2 in	243 cfm	2.25	—	Tornado	98698	**35PG51**
HEPA Filtration							
Dry	Not Included	99 cfm	2	70 in	Nilfisk	M90068	**48XT64**


No. 4YE60

Pneumatic Drum-Top Vacuum Heads

Drum-top vacuum heads operate on a compressed-air supply, so they have no electric motor to burn out and no moving parts to wear out. They're commonly used in wet environments where an electric-powered vacuum could be hazardous. These vacuum heads generate strong suction to draw wet or dry materials into an attached 55-gallon drum. Designed for flood control, sludge pickup, and cleaning of sumps and coolant tanks.

Note: All air vacuums come with a 3⁄16" jet installed. 7⁄32" and ¼" jets are also supplied.


No. 3PXN9

Vacuum Pickup Type	For Drum Capacity	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Static Pressure	Includes	Brand	Mfr. Model	Item No.
Vacuum Heads									
Standard Filtration									
Wet/Dry	55 gal	2 in	238 cfm	¾ in FNPT	200 in	(4) Liquid Shutoffs, (4) Venturi Powerheads, Deflector, Jumbo Cover, Quad Head Line Connector, Tool Kit, Vacuum Hose, Wand	Tornado	98695	**32EY93**
	55 gal	2 in	160 cfm	¾ in FNPT	239 in	(2) Venturi Powerheads, Deflector, Dual Head Line Connector, Jumbo Cover, Tool Kit, Vacuum Hose, Wand	Tornado	98696	**32EY94**
	55 gal	¾ in	89 cfm	¾ in FNPT	185 in	55 gal Vacuum Generating Head	Guardair	N551B	**3PXN9**
HEPA Filtration									
Wet/Dry	30 gal	2 in	89 cfm	½ in FNPT	185 in	30 gal Vacuum Generating Head	Guardair	N301B	**3PXN5**
	30 gal	2 in	89 cfm	½ in FNPT	185 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs	Guardair	N301BK	**3PXN6**
	55 gal	2 in	163 cfm	¾ in FNPT	163 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs, Standard Cartridge Filter	Guardair	N552BK	**3PXN7**
	55 gal	2 in	89 cfm	½ in FNPT	185 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs	Guardair	N551BK	**3PXN8**
Standard Filtration									
Wet	55 gal	2 in	160 cfm	¾ in FNPT	242 in	(2) Liquid Shut-Offs, (2) Venturi Powerheads, Deflector, Dual Head Line Connector, Jumbo Cover, Tool Kit, Vacuum Hose, Wand	Tornado	98694	**35PG49**
Vacuum Head Drum									
Vacuum Drum, Steel for 55-Gal. Vacuum Heads							Tornado	95944	**35PG55**

Bagged, Corded Handheld Vacuums

- **Dry pickup** Vacuums trap dirt, dust, and allergens in replaceable bags that are discarded when full. They keep debris contained for disposal to help prevent recirculation of dust and allergens.


No. 4LB41


No. 5NJJ7

Description	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes	Brand	Mfr. Model	Item No.
Vacuums								
Standard Filtration								
Commercial Vacuum	64 cfm	5.0 lb	86 dB	¼ gal	Tool Caddy, Tool Adaptor Tube, Crevice Tool, Fabric Tool, Dusting Brush, Multipurpose Floor and Wall Tool, Blower Adaptor, Adjustable Extension Wand	Oreck	BB900-DGR	**4LB41**
Vac N Go	70 cfm	2.7 lb	80 dB	¼ gal	Pik-All Nozzle, (2) Disposable Bags, Dust Brush, Crevice Tool	Metrovac	VM4B500	**5NJJ7**
Vac N Blo 500	70 cfm	3.0 lb	80 dB	¼ gal	Extension Wand, Flexible Hose, Pik-All Nozzle, Dust Brush, Crevice Tool, Inflator Adaptor, Shoulder Strap, (6) Disposable Paper Bag	Metrovac	VM12500	**2TUX7**
PortaPOWER™ Vacuum	79 cfm	8.5 lb	66 dB	½ gal	Triple Stretch Hose, (2) Chrome Steel Extension Wands, Shoulder Strap, Cord Storage Strap, Rug And Floor Tool, Wall Floor Brush, Furniture Tool, Dusting Brush, Crevice Tool	Hoover	CH30000	**6ENE3**
Vac N Blo	100 cfm	9.0 lb	80 dB	¼ gal	Dual Power Unit, Flexible Hose, 20 in Extension Wands, Pik-All Nozzle, Crevice Tool	Metrovac	VNB-72B	**2TUX6**
Vac N Blo	130 cfm	9.0 lb	80 dB	¼ gal	Dual Power Unit, Flexible Hose, 20 in Extension Wands, Pik-All Nozzle, Crevice Tool	Metrovac	VNB-73B	**2TUX5**
Accessory								
Vacuum Carrying Bag for No. 6ENE3					Adjustable Shoulder Strap, Padded Adjustable Waist Strap	Hoover	CH01005	**6ENE4**

Bagged, Cordless Handheld Vacuum

Vacuum operates without the limitations of a power cord to trap dirt, dust, and allergens in replaceable bags that are discarded when full. The bags keep debris contained for disposal to help prevent recirculation of dust and allergens.


No. 462R86

Description	Vacuum Filtration Type	Vacuum Pickup Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Mfr. Model	Item No.
Vacuum									
Handheld Vacuum	HEPA	Wet/Dry	51 cfm	10 lb	Not Rated	2 ½ gal	No	GAS18V-3N	**462R86**
Required Accessories									
Batteries, Pkg. of 2								BAT612-2PK	**19TR97**
Battery Charger								BC660	**30RW48**

Bagless, Cordless Handheld Vacuums

Vacuums operate without power cord restrictions to collect dust and debris from small cleaning jobs in their dirt cup for disposal. The dirt cup can be cleared out when full to prevent reduced suction or an overheated motor and also allows small items to be recovered from the collected debris. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.


No. 462R85


No. 49EM75

Vacuum Pickup Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Dry	21 cfm	3 lb	Not Rated	¼ gal	No	(2) Extension Tubes, Crevice Nozzle, Floor Nozzle	Bosch	GAS18V-02N	**462R85**
Dry	33 cfm	2.25 lb	Not Rated	¼ gal	No	(1) Crevice Tool, (1) Extension Wand, (1) Filter Cartridge, (1) Utility Nozzle	Milwaukee	0850-20	**32NN01**
Dry	—	2 lb	Not Rated	¼ gal	No	(1) Crevice Nozzle, (1) Exact-Fit Insert Tray, (1) Micro Filter	Bosch	VAC120BN	**36WH89**
HEPA Filtration									
Wet/Dry	34 cfm	5 lb.	Not Rated	2 gal	Yes	5 ft. Heavy-Duty Crush Resistant Hose (1¼ Dia.), Crevice Tool Attachment, Wide Nozzle Tool Attachment, Washable HEPA Filter	DeWalt	DCV581H/DCB203	**58JM09**
Wet/Dry	39 cfm	3.8 lb.	84dBA	½ gal	Yes	Washable Filter, Heavy Duty Rubber Hose, (1) HEPA Filter	DeWalt	DCV517B/DCB203	**58JL80**
Wet/Dry	39 cfm	4 lb	84dBA	½ gal	No	—	DeWalt	DCV517B	**49EM75**
Wet/Dry	39 cfm	4 lb	84dBA	½ gal	Yes	(1) DCB115 Charger, (1) DCB204 Battery	DeWalt	DCV517M1	**49EM76**
Dry	74 cfm	16 lb	72dBA	2 gal	No	Carrying Strap, Grouting Nozzle, HEPA Filter, Hose, Nylon Web Filter Bag, Suction Nozzle	Metabo	AS 18 L PC HEPA bare	**483U92**


No. 45UZ61

No. 3ZJH6

No. 38EW27

Vacuum Bags

Collect vacuumed dust and debris for disposal and help filter out allergens and dust particles to prevent them from recirculating in the air. New or empty bags help prevent clogs, suction loss, and motor burnout. Disposable bags are discarded when full and replaced with a new bag to minimize contact with collected dirt. Reusable bags are shaken out when full and used again to reduce waste.

Fits Vacuum Brand	Fits Vacuum Models	Item No.	Pkg. Qty.
Shop Vacuum Bags			
Standard Filtration			
Dayton	13J021, 1VHF8, 20X605, 22XJ49, 22XJ51, 22XJ62, 22XJ65, 3UP77, 3UP78, 3VE18, 3VE19, 45UZ57, 4TB79, 4TB83, 4TB86, 4TB89, 4TB90, 4TR11, 4TR12, 4UAC7, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 6AKY2, 6AKY3, 6AKY9	**45UZ59**	2
Dayton	12Z214, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ50, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ63, 22XJ64, 3UP73, 3UP74, 3VE20, 3VE21, 3VE22, 4TB77, 4TB78, 4TB80, 4TB81, 4TB82, 4TB84, 4TB87, 4TR19, 4YE58, 4YE59, 4YE61, 4YE62, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY4, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**45UZ60**	2
Dayton	48UH44	**48UH45**	3
Dayton	2NYE3, 2NYE4	**5X878**	1
Dayton	4YE65, 4YE66	**3UP64**	5
Dayton	13J021, 1VHF8, 22XJ51, 22XJ62, 22XJ65, 3UP77, 3UP78, 3VE18, 3VE19, 4TB89, 4TB90, 4UAC7, 4YE64, 4YE65, 4YE66, 4YE67	**3UP65**	5
Dayton	12Z214, 1VHG6, 20X606, 20X607, 22XJ47, 22XJ49, 22XJ54, 22XJ59, 22XJ63, 3UP73, 3UP74, 3VE20, 45UZ57, 4TB77, 4TB79, 4TB83, 4TB86, 4TR11, 4TR12, 4TR19, 4YE68, 4YE69, 4YE70, 6AKY0, 6AKY2, 6AKY3, 6AKY9, 6AKZ2	**3UP66**	5
Dayton	1UG91, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG7, 1VHG8, 20X608, 20X609, 22XJ46, 22XJ48, 22XJ50, 22XJ53, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ60, 22XJ64, 3VE21, 3VE22, 3VE23, 4TB78, 4TB80, 4TB81, 4TB82, 4TB84, 4TB85, 4TB87, 4YE58, 4YE59, 4YE61, 4YE62, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY1, 6AKY4, 6AKZ0, 6AKZ1, 6Z095	**1UG85**	5
Dayton	13J021, 1VHF8, 20X605, 22XJ49, 22XJ51, 22XJ62, 22XJ65, 3UP77, 3UP78, 3VE18, 3VE19, 45UZ57, 4TB79, 4TB83, 4TB86, 4TB89, 4TB90, 4TR11, 4TR12, 4UAC7, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 6AKY2, 6AKY3, 6AKY9	**45UZ61**	2
Dayton	12Z214, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ50, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ63, 22XJ64, 3UP73, 3UP74, 3VE20, 3VE21, 3VE22, 4TB77, 4TB78, 4TB80, 4TB81, 4TB82, 4TB84, 4TB87, 4TR19, 4YE58, 4YE59, 4YE61, 4YE62, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY4, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**45UZ62**	2
HEPA Filtration			
Dayton	13J021, 1VHF8, 20X605, 22XJ49, 22XJ51, 22XJ62, 22XJ65, 3UP77, 3UP78, 3VE18, 3VE19, 45UZ57, 4TB79, 4TB83, 4TB86, 4TB89, 4TB90, 4TR11, 4TR12, 4UAC7, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 6AKY2, 6AKY3, 6AKY9	**45UZ63**	2
Dayton	12Z214, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ50, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ63, 22XJ64, 3UP73, 3UP74, 3VE20, 3VE21, 3VE22, 4TB77, 4TB78, 4TB80, 4TB81, 4TB82, 4TB84, 4TB87, 4TR19, 4YE58, 4YE59, 4YE61, 4YE62, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY4, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**45UZ64**	2
Nilfisk	Eliminator	**48ZD76**	3

Fits Vacuum Brand	Fits Vacuum Models	Item No.	Pkg. Qty.
Upright Vacuum Bags			
Standard Filtration			
Bissell, Oreck	8000, 9000, BGU8000, XL2000	**3ZJL2**	25
Bissell, Hoover, Powr-Flite, Royal, Rubbermaid, Tornado	DayClean, PF62E. CK LW 13/1, ProBag, Type B, UL12	**10G171**	10
Eureka, Sanitaire	F&G	**3ZJK3**	10
Sanitaire	SC600, SC800	**3ZJL5**	1
Bissell, Oreck	8000, 9000, BGU8000, XL2000	**3ZJL9**	25
Bissell, Electrolux, PerfectVac, ProTeam, Pullman Holt, Sanitaire	1500, 1500XP, 15XP, BG1000, DM101, ProCare 15, ProForce 1200XP, ProLux, SC6600, SP6610, Type U, UV-10, UV-3, UV-5	**6JEN8**	10
Bissell, Hoover, Powr-Flite, Royal, Rubbermaid, Tornado	DayClean, PF62E. CK LW 13/1, ProBag, Type B, UL13	**10G172**	10
Advance, Clarke, Triple S	115, 12H, 12P, 12S, 15D, 15P, 15S, 18D, 212, 215, 218, CarpetMaster 112, GU, Prosense 12D/15D, Spectrum 12D	**6GAN7**	10
Sanitaire	SC600, SC800	**3ZJL4**	1
Sanitaire	SC600, SC800	**3ZJL6**	1
Carpet Pro, CleanMax, Fuller, Tennant, Tornado	CK 14/1. CK 14/2, CPU-1/T, CPU-2/T, CPU5T, CPU85/T, FB890, FB895, FBPWD, FBTM, Pro, V-SMU-14	**11C828**	10
Eureka, Powr-Flite, Sanitaire	5800-5893, Force models SC5713B, LiteSpeed models 5700-5739, PF82HF, SC815D	**3ZJK9**	5
Eureka, Sanitaire	S782, SC785	**3ZJL1**	3
Sanitaire, Triple S	Duralux SC9120, ProSense X2, SC9150, SC9180, SC9180B	**3ZJL7**	5
Advance, Kent, Nilfisk	Advac, CarpeTwin 14/18, DuraVac 152B	**3ZJJ2**	10
Hoover, Pacific Floorcare	MyVac, Type A	**3ZJJ7**	3
Hoover, Pacific Floorcare, Royal	CR50005, Scholar, Type Y	**3ZJJ8**	3

Find the complete list of vacuum bags on Grainger.com®.

Fits Vacuum Brand	Fits Vacuum Models	Item No.	Pkg. Qty.
Upright Vacuum Bags (Cont.)			
Standard Filtration (Cont.)			
Minuteman	370202	**3ZJK6**	10
Nobles, Tennant	3220, Lite Trac, V-DHU-14/36, Viper, Whirlwind	**3ZJH9**	10
Nobles, Tennant	3110, 3120, Ultra Glide V-DMU-15, V-DMU-38	**5KRE5**	10
Oreck	XL Pro14	**3ZJN1**	10
Royal	Type Y	**10G174**	10
Hoover	15, CH54013, CH54015, CH54115, Hushtone 13, Models CH54113, Type CU2	**52VN95**	10
Karcher, NSS, Tornado	CV30/1, CV38/1, CV48/2, Pacer	**3ZJJ5**	10
Mastercraft, Panasonic	QC 1415, Type U, U-12, U-3, U-6	**3ZJJ6**	3
NSS	Marshall 14/18	**3ZJJ4**	10
Sanitaire	800, Model 600, SC675A, SC688A, SC888K, SC889A, Style ST	**3ZJL8**	5
Sanitaire	Style Z	**5RAF0**	10
Karcher, NSS, Tornado	CV30/1, CV38/1, CV48/2, Pacer	**20TM81**	10
Karcher, Tornado, Triple S, Windsor	CW100, CW50, Prosense II, Versamatic	**3ZJH8**	10
Karcher, Kenmore, Sanitaire, Sebo, Triple S, Windsor	50015, Allstar Javelin, Automatic X, CVU, EON, Essential G, ProChem PV12, ProSense, SC5000, SC5500, Sensor, Sensor 2, Sensor XP, U-Vac UPV12, Versamatic	**3ZJH6**	10
HEPA Filtration			
Hoover	Type Y	**11C831**	3
Oreck	101H, OR-44	**5RAF2**	10
Hoover	Type A	**11C829**	3
Hoover	Type Y	**11C830**	3
Royal	Type Y	**10G173**	10
Backpack Vacuum Bags			
Standard Filtration			
Hoover	BP	**11C832**	10
Advance, Bissell, Clarke, Euroclean, Hoover, IPC Eagle, Karcher, Mastercraft, Minuteman, Mosquito, Nilfisk, Oreck, Perfect Vac, ProTeam, Sandia, Sanitaire, Triple S, Windsor	Adgility, BackVac10, BGPRO10A, BP10, BPV10, BV 11/1, CoachVac, ComfortPak 10, Enviromaster Probe 10, GD 10, Ground Command 10, MegaVac, PB1001, Raven 10, SC530, SC535, Super CoachVac, SuperVac 10, Tailwind 1000H, VP10, XLPRO10	**3ZJH7**	10
CleanMax, Karcher, Koblenz, Powr-Flite, Sanitaire, Tennant, Tornado	BP1400, CMBP-6, PF300PB, PV-6, SC412, V-BP-6	**20TM82**	10
Bissell, Dustbane, Hawk Enterprises, IPC Eagle, Mastercraft, Mosquito, Nobles, NSS, Oreck, ProTeam, Sandia	Alpine Vac, AviationVac, Bandit, BGHIP6A, BGPRO6A, BP6, Enviromaster Probe 6, Fast Track BackVac, Harrier I, HipVac, Outlaw, ProVac, QuarterVac, QuietPro BP, Raven 6, Super QuarterVac, SuperVac 6, TailVac, TrailBlazer, TrailBlazer Lite, XLPRO6	**3ZJJ3**	10
ProTeam	SuperCoach Pro 6	**20TM84**	10
ProTeam	SuperCoach Pro 10	**20TM83**	10
ProTeam	ProClean, ProVac CN, QuietPro CN, RunningVac, Sequoia	**6JEN9**	10
ProTeam, Rubbermaid	9VBP06, LineVacer	**48ZD77**	10
ProTeam	ProVac FS 6, Super Coach Pro 6	**35XE92**	10
Nobles, Tennant	Aspen 10, Aspen 6, Aspen 6B, V-BP-10, V-BP-6, V-BP-6B	**21ML41**	12
ProTeam	103024, 107103, 107108, 107113, 107118, 107145, 107155, 107605, 107606, 107607,107146,105733, 107609,106542	**2RKX4**	10
ProTeam	100277,100280, 105869, 105892,107137,107345,107138, 107104, 107109, 107114, 107119, 107141, 107161, 107471, 107602, 107603, 107604	**2RKX8**	10
ProTeam	107303, 107304, 107305, 107306, 107338, 107339, 107340, 107341, 107342, 107465, 107468, 107536, 107537, 107538	**38EW27**	10
HEPA Filtration			
Atrix	BP50-G, VACBP36V-GR and VACBP36V	**21AD05**	10
Canister Vacuum Bags			
Standard Filtration			
Eureka	Mighty Mite 3670 - 3690, Type MM	**3ZJK1**	10
Euroclean, Nilfisk	UZ932, UZ934	**3ZJK5**	10
Clarke, Euroclean, Nilfisk	UZ964 HipVac	**3ZJK2**	10
CleanMax, Euroclean, Nilfisk, Pacific Floorcare, Pullman Holt	380ASB, CMDC-12, DP9000, GD930, GD950, TopVac, UZ930, Z970, Z990	**48ZD78**	10
Oreck	1000, 280, 850, 870, 900, BB180, Housekeeper, MV160	**48ZD79**	12
Nilfisk	GA70, GM80, GM90, GS80, GS90	**49AJ55**	5
Tornado	TASKFORCE External Filter Air Vac	**1N147**	1
Critical Area Vacuum Bags			
Standard Filtration			
Minuteman	C80106-01, C80704-01, C80704-03, C80704-05, C82907-00, C82985-06, C87506-02, Minuteman Models C82906-01	**10E085**	10
Minuteman	C80115-01, C80215-01, C80355-04, C80355-05, C81015-01, C81415-01, C81455-01, C81455-03, C81455-05, C82015-01, C82915-06, C82917-00, C83015-01, C83905-01, C83905-03, C83905-05, C83905-16, C83905-55, C87155-01, C87255-01, C87515-05, C87515-06, C87555-01, Minuteman Models C82915-05	**10E086**	12
Minuteman	C80115-01, C80215-01, C81015-01, C82015-01, C82917-00, C83015-01, C83905-01, C83905-03, C83905-05, C87515-05, C87515-06, Minuteman Models C82915-05	**10E087**	10
Minuteman	C80106-01, C80704-01, C80704-03, C80704-05, C82904-07, C82907-00, C82985-06, C86006-11, C87506-02, Minuteman 384003PKG for Models C82904-04	**10E088**	10
Drum-Top Vacuum Head Bags			
Standard Filtration			
Tornado	DE Jumbo, Dual Jumbo Vacuum, SE Jumbo, Single Air Jumbo Vacuum	**1N148**	1
Tornado	Quad Jumbo Vacuum	**1N151**	1
Handheld Vacuum Bags			
Standard Filtration			
Dayton	3UP57	**6H019**	3
Dayton	4Z906	**6H020**	3
Metrovac	VM12500	**2TUY4**	5
Metrovac	ES-105T, ES-109T, Mfr. No. ES-105	**55HE54**	5

For the complete list of vacuum accessories and replacement parts, go to Grainger.com®

bissell BigGreen Commercial · Dayton · Hoover Commercial · ORECK COMMERCIAL · Sanitaire

Upright Vacuum Belts

Belts for upright vacuums fit specific upright-vacuum brands or models. They're used to replace broken or worn belts that no longer turn the vacuum's brush roller.

Fits Vacuum Brand	Fits Vacuum Models	Item No.	Pkg. Qty.
Bissell	BG100, BG101, BG101H, BG102, BG102H	**36RE91**	1
Dayton	2YMT7	**2YMU1**	3
Hoover	UH70805	**55JE84**	2
Oreck	U2000RHB, U2000RSB, XL2100RHS	**4LB39**	3
Sanitaire	SC684F, SC688A, SC886E, SC887B, SC888K, SC889A, SC889F, SC899F	**23YU38**	1


No. 36RE91


No. 2YMU1



No. 55JE84

Milwaukee · Dayton · ATRIX

Vacuum Cleaner Attachments

Attachments connect to a vacuum to adapt it to different cleaning tasks. They're used for applications such as removing dust from crevices, picking up dry bulk materials, vacuuming upholstery, and cleaning elevated surfaces.


No. 3UP60

Description	For Hose Dia.	Fits Vacuum Models	Brand	Item No.
Aluminum				
Furniture Nozzle	1 ½ in	Universal	Milwaukee	**3Y280**
Metal				
Dust Brush	1 ½ in	3UP73, 3UP74, 3UP76, 3UP80, 3UP81, 3VE20, 4TB83	Dayton	**6X885**
Floor Tools and Nozzles	1 ½ in	1VHG8, 22XJ56, 22XJ60, 4YE62, 6AKZ1, 6AKZ2	Dayton	**3UP60**
	1 ½ in	95953, 95954, 95955, 98606, 98995	Dayton	**6X886**
Crevice Tool	1 ½ in	3UP73, 3UP74, 3UP76, 3UP80, 3UP81, 3VE20, 4TB83	Dayton	**6X884**
Extension Wands, Pkg. of 2	1 ½ in	2NYE5, 6X879, 6X887	Dayton	**3W160**
Squeegee	1 ½ in	497ABF, 497AJM	Dayton	**5UMR2**
Plastic				
Dust Brush	1 ½ in	1UG82, 22XJ59, 36RE60, 38EW25, 45PC90, 48ME61	Dayton	**2NYE6**
Floor Tools and Nozzles	1 ¼ in	2YMT8	Dayton	**2YMU4**
	1 ½ in	1UG91	Dayton	**6AKY6**
	1 ½ in	1UG82, 22XJ59	Dayton	**2NYE7**
Crevice Tool	1 ½ in	1UG82, 22XJ59, 45PC90	Dayton	**2NYE8**
Furniture Nozzle	1 ¼ in	Ergo Series	Atrix	**21AD10**
Pick Up Tool	1 ½ in	5X872	Dayton	**5UMR4**


No. 3W160


No. 2NYE6


No. 2YMU4


No. 6AKY6


No. 2NYE8


No. 6Z776


No. 22N478


No. 2Z975

Dayton · Nilfisk

Shop Vacuum Accessory Kits

Kits include multiple attachments or tools that connect to a vacuum to suit different cleaning tasks. They're used for jobs such as vacuuming upholstery, stairs, crevices, or delicate surfaces.

For Hose Dia.	Fits Vacuum Models	Includes	Brand	Item No.
1 ¼ in	1UG91	Micro Curved Wand and Micro Crevice Tool., Micro Oval Round Brush, Micro Straight Round Brush, Micro Straight Wand, Reduction Nozzle	Dayton	**4YJ84**
1 ¼ in	1D456, 1UG91, 36RE61, 3AB14, 3VE21, 4TR11, 4TR20, 6H005, 6NA93, 6Z099, 6Z768, 6Z769, 6Z770, 8APG2	(2) 16 in Plastic Extension Wands, Brush Insert, Crevice Tool, Deluxe 12 in Master Nozzle, Dusting Brush, Squeegee Insert, Utility Nozzle	Dayton	**2Z976**
1 ½ in	2Z564, 2Z973, 2Z974, 3UP58, 3UP78, 3Z707, 3Z708, 3Z709, 4TR11, 4YE61, 4Z227, 6Z094, 6Z095, 6Z096	(2) 2 ft Interlocking Extension Wands, 14 in Master Nozzle with Brush, Crevice Tool, Dusting Brush, Rug and Squeegee Shoes, Utility Nozzle	Dayton	**2Z978**
1 ½ in	2Z564, 2Z973, 2Z974, 3UP58, 3UP78, 3Z707, 3Z708, 3Z709, 4TR11, 4YE61, 4Z227, 6Z094, 6Z095, 6Z096	(2) Interlocking Chrome Extension Wands, 14 in ABS Master Nozzle, Brush, Crevice Tool, Dusting Brush, Rug, Squeegee Shoes, Utility Nozzle	Dayton	**3UP63**
1 ½ in	1VHG3, 22XJ50, 4YE58, 4YE59, 4YE60, 4YE62	(2) Plastic Extension Wands, 14 in Wet/Dry Floor Nozzle, Crevice Tool, Curved Elbow Grip, Dusting Brush, Utility Nozzle	Dayton	**6AKY5**
1 ½ in	2Z564, 2Z973, 2Z974, 38EW25, 3UP58, 3UP78, 3Z707, 3Z708, 3Z709, 4TR11, 4TR14, 4YE60, 4YE61, 4Z227	(2) Interlocking Chrome Extension Wands, 14 in Metal Master Nozzle with Brush, Squeegee Shoe	Dayton	**6Z776**
1 ½ in	4TB84	12 ft x 1½ in Diameter Hose, Crevice Tool, Efficient Claw-Style Nozzle, Round Dusting Brush	Dayton	**3VE24**
2 in	S2, S3	(2) Adaptors, (3) Extension Wands, Dust Brush, Floor Nozzle, Uphostery Brush	Nilfisk	**22N478**
2 ½ in	1D456, 1UG91, 22XJ47, 3VE21, 4TR11, 4TR20, 6H005, 6Z099, 6Z768, 6Z769, 6Z770	(2) 20 in Extension Tubes, 14 in Floor Nozzle with Brush, 6 ft x 2½ in Hose, Car Tool, Crevice Tool, Dusting Brush	Dayton	**2Z975**
2 ½ in	3VE22	(2) 2½ in Diameter Extension Wands, 120° Elbow/Utility Nozzle, Concentrator Blower Nozzle	Dayton	**4TB92**

For the complete list of vacuum accessories and replacement parts, go to Grainger.com®


No. 2W435


No. 6AKY8


No. 6H015


No. 5X879

Vacuum Filters

Dayton

- Reusable

Trap dust and allergens to keep them from recirculating in the air or entering the vacuum's motor. Filters are usually found near the vacuum's exhaust port to catch fine particles that haven't been collected in the vacuum bag or dirt cup. These filters are used for regularly replacing old filters to maintain suction and avoid motor burnout, and to change out clogged or damaged filters. Filters typically fit specific vacuum cleaner brands or models.

Filtration Type	Filter Pickup Type	Filter Material	For Vacuum Type	Fits Vacuum Models	Item No.
Cartridge Filters					
Standard	Wet/Dry	Paper	Shop Vacuum	12Z214, 1UG91, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 22XJ46, 22XJ47, 22XJ48, 22XJ49, 22XJ50, 22XJ51, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ62, 22XJ63, 22XJ64, 2NYE2, 2RPD8, 3UP73, 3UP74, 3UP77, 3UP78, 3VE18, 3VE19, 3VE20, 3VE21, 3VE22, 3VE23, 45UZ574TB77, 4TB78, 4TB79, 4TB80, 4TB81, 4TB82, 4TB83, 4TB84, 4TB85, 4TB86, 4TB87, 4TB90, 4TR11, 4TR12, 4TR19, 4UAC7, 4YE58, 4YE59, 4YE61, 4YE62, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 6AKY0, 6AKY1, 6AKY2, 6AKY3, 6AKY4, 6AKY9, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**2W435**
	Wet/Dry	Paper	Shop Vacuum	12Z214, 13J021, 1UG91, 1VHF8, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X605, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ49, 22XJ50, 22XJ51, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ62, 22XJ63, 22XJ64, 22XJ65, 2NYE2, 2RPD8, 3UP73, 3UP74, 3UP77, 3UP78, 3VE18, 3VE19, 3VE20, 3VE21, 3VE22, 3VE23, 45UZ574TB77, 4TB78, 4TB79, 4TB80, 4TB81, 4TB82, 4TB83, 4TB84, 4TB85, 4TB86, 4TB87, 4TB89, 4TB90, 4TR11, 4TR12, 4TR19, 4UAC7, 4YE58, 4YE59, 4YE61, 4YE62, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY2, 6AKY3, 6AKY4, 6AKY9, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**45UZ58**
HEPA	Wet/Dry	Paper	Shop Vacuum	12Z214, 13J021, 1UG91, 1VHF8, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X605, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ49, 22XJ50, 22XJ51, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ62, 22XJ63, 22XJ64, 22XJ65, 2NYE2, 2RPD8, 3UP73, 3UP74, 3UP77, 3UP78, 3VE18, 3VE19, 3VE20, 3VE21, 3VE22, 3VE23, 45UZ574TB77, 4TB78, 4TB79, 4TB80, 4TB81, 4TB82, 4TB83, 4TB84, 4TB85, 4TB86, 4TB87, 4TB89, 4TB90, 4TR11, 4TR12, 4TR19, 4UAC7, 4YE58, 4YE59, 4YE61, 4YE62, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY2, 6AKY3, 6AKY4, 6AKY9, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	**4TB93**
	Wet/Dry	Paper	Shop Vacuum	13J019, 13J020, 13J021, 1TFX2, 1VHF8, 1VHF9, 22XJ53, 22XJ61, 22XJ62, 48UH44, 4TB89, 4YE74	**6AKY8**
	Dry	Paper	Backpack Vacuum	1UG82, 4TR09, 4TR10	**1UG89**
Dome Filters					
	Dry	Cloth	Shop Vacuum	2Z974, 4Z227, 6Z006, 6Z093	**6H017**
Standard	Dry	Cloth	Shop Vacuum	2Z974, 4Z227, 6Z006, 6Z093	**6H014**
	Dry	Cloth	Shop Vacuum	22XJ50, 3Z707, 3Z708, 3Z711, 4TR13, 4YE58, 4YE62	**6H015**
Sleeve Filter					
Standard	Wet	Foam	Canister Vacuum, Drum Top Heads, Shop Vacuum	2NYE4., Fits All Dayton Shop Vacuum models 5-Gallon and Above. Fits Dayton Portable Vac Models 2NYE3	**5X879**


No. 2Z212


No. 6X077


No. 4UAC9

Vacuum Hoses

Tennant | Makita | Dayton | GUARDAIR | ATRIX

- Plastic

Hoses attach to a vacuum cleaner's intake port to draw in dirt and debris. They connect with compatible attachments to extend their length or adapt to specialized jobs, such as cleaning crevices and upholstery. These vacuum cleaner hoses are used as replacements for hoses that are worn, damaged, or no longer maintain suction.

Description	Hose Dia.	Hose L	Color	Fits Vacuum Models	Brand	Item No.
Standard Vacuum Hoses	1 ¼ in	8 ft	Black	1244322, Mfr. No. 1244302	Tennant	**55EX70**
	1 ⅜ in	16 ft	Black	VC4710	Makita	**45DL28**
	1 ½ in	9 ft	Black	5UMR0	Dayton	**5UMR9**
	2 in	20 ft	Gray	N301BC, N301BCNED, N301BK, N551BC, N551BCNED, N551BK, N552BC, N552BCNED, N552BK	Guardair	**3PXP8**
	2 ½ in	8 ft	Black	1VHF8, 1VHF9, 22XJ53, 3UP78, 3VE22, 4TB87, 6AKY2	Dayton	**2Z212**
Crush-Resistant Vacuum Hoses	1 ¼ in	8 ft	Black		Dayton	**2Z290**
	1 ½ in	7 ft	Black		Dayton	**5X882**
	1 ½ in	12 ft	Black		Dayton	**3UP61**
	1 ½ in	12 ft	Black		Dayton	**5AU40**
	1 ½ in	18 ft	Black		Dayton	**6X077**
	1 ½ in	25 ft	Black		Dayton	**3UP59**
	1 ½ in	25 ft	Black		Dayton	**5AU41**
Stretchable Vacuum Hoses	1 ¼ in	6 ft	Black	Ergo Series	Atrix	**21AD08**
	2 ½ in	12 ft	Black	1VHF8, 1VHF9, 22XJ53, 3UP78, 3VE22, 4TB87, 6AKY2	Dayton	**4UAC9**


No. 4YJ86


No. 6X887


No. 21AY38


No. 1UND6

Shop Vacuum Replacement Parts

Dayton

Replacement parts and accessories replace broken or worn mechanical and electrical components in commercial and industrial vacuum cleaners. They're used for completing repairs or performing regular maintenance of vacuums. For the full assortment of vacuum replacement parts, go to Grainger.com®

Decription	Fits Vacuum Models	Item No.
Universal Tools Adapter	Dayton Vacuums	**4YJ86**
Pipe Cleaning Tools	2Z290, 3UP59, 3UP61, 4UAC8, 4UAD1, 5AU40, 5AU41, 5X882, 6X077	**6X887**
	3W160	**2NYE5**
Filter Retainer	22XJ54	**21AY38**
Service Power Units	3VE18	**1UNC9**
	3VE19	**1UND1**
	3VE20	**1UND2**
	1UG91, 3VE21, 6AKY1	**1UND3**
	4YE65	**1UND7**
	3VE22	**1UNE1**
Service Motors	22XJ46, 22XJ49, 4TB82, 4TB83, 4TB84, 4TB85, 4TB90, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68	**1UND4**
	4YE58, 4YE59, 4YE60	**1UND5**
	21AX82, 4YE62, 4YE63	**1UND6**
	4TB86, 4YE69, 6AKY9, 6AKZ0	**1UND8**
	4YE71, 4YE72, 6AKZ0, 6AKZ1	**1UND9**

Carpet Extractors

STRIVE® SERIES WITH READYSPACE®

ReadySpace® technology allows carpets to dry and be ready for foot traffic in 30 min. or less. Rollers and deep cleaning brushes can perform interim and restorative carpet cleaning.

SELF-CONTAINED EXTRACTORS

EX-SC-1020P—10-gal. push extractor cleans an average of 3500 sq. ft. per hr. Features large nonmarking wheels, drop-down drain hose for quick emptying, and 5 spray jets.

EX-SC-1020—Extractors have a drop-down hose for easy emptying, a solenoid valve that helps prevent drips, and simple controls for ease of use.

EX-SC-412—Cleans 1400 sq. ft. per hr. Has a lift-off recovery tank and an adjustable folding handle. Includes trigger grips for solution dispersal, 2 spray jets that evenly dispense solution and require no tools to remove, and a floating brush head that requires no manual adjustment.

Speed EX™ Compact—Electric extractor features lift-off solution and recovery tanks for easy cleaning and filling. Noncorrosive aluminum scrub head and rotomolded tanks for durability. Handle is adjustable for ease of use and folds down for storage.

Falcon™ 2800 Plus—Self-propelled extractor has a 75-ft. power cord and electronic speed control for greater efficiency. Rear-mounted pivoting head provides greater solution recovery for faster drying time. Includes a prespray wand for cleaning heavily soiled areas.

Falcon™ Ultra Battery—Self-propelled front-mounted head allows for easy maneuvering around corners and narrow aisles. 6 spray heads with 100 psi for enhanced solution dispersal and better cleaning performance. Runs up to 4 hr. on a single charge.

PORTABLE EXTRACTORS

EX-SPOT Spotter Extractors—Ideal for small stains and soil concentrations. Easy to transport, weigh only 18 lb. Recover water easily with the 1.12-HP vacuum motor. No. 4VDV6 includes a cart.



No. 4VDT7



No. 4VDU6



No. 4VDV5

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Vacuum Motor	Mfr. Model	Item No.
Strive® with ReadySpace®							
Strive Rider	28"	250 psi	32 gal.	28 gal.	(2) 3-Stage, 0.6 HP	MV-STRVR-0002	**4VDT7**
Strive Walk Behind	22"	100 psi	21 gal.	21 gal.	(2) 3-Stage, 0.6 HP	MV-STRV-0001	**4VDT8**
Strive Compact	15"	65 psi	5 gal.	5 gal.	2-Stage, 1.2 HP	9004202-H	**4VDU5**
Self-Contained Extractors							
EX-SC-1020P	20"	100 psi	10 gal.	14.5 gal.	3-Stage, 1.8 HP	9007480	**4VDU2**
EX-SC-1020	20"	100 psi	10 gal.	14.5 gal.	3-Stage, 1.8 HP	9007486	**4VDU3**
EX-SC-412	12"	60 psi	4 gal.	4 gal.	2-Stage, 1.5 HP	9007478	**4VDU7**
Speed EX™ Compact	15"	65 psi	5 gal.	5 gal.	2-Stage, 1.2 HP	9004201-H	**4VDU6**
Falcon™ 2800 Plus	22"	100 psi	28 gal.	18 gal.	3-Stage, 2 HP	608352	**4VDU1**
Falcon™ Ultra Battery	22"	100 psi	17 gal.	17 gal.	2-Stage, 1 HP	608351	**4VDT9**
Portable Extractors							
EX-SPOT	4"	30 psi	2 gal.	2 gal.	2-Stage, 1.12 HP	9007502	**4VDV5**
EX-SPOT with Cart	4"	30 psi	2 gal.	2 gal.	2-Stage, 1.12 HP	9007629	**4VDV6**

Description	For Use With	Item No.
Accessory		
15 ft. Extraction Hose	Nos. 4VDU2, 4VDU3, 4VDU7, 4VDU1 and 4VDT9	**4VMA4**

NOBLES

Compact Carpet Extractors

- ETL Listed

Easy-to-use design with a large capacity 15-gal. tank increases productivity by letting you run the machine longer before you need to add more solution. Include a long 15-ft. hose, easy-grip handles, and a sturdy carpet wand for increased maneuverability and access to hard-to-reach spaces. Easy-access fill port reduces spills and keeps you in an ergonomic position during fill ups. Roto-mold double-walled construction increases extractor life and performance.

Nos. 19XZ88 to 19XZ94 come with a heating element and are ideal for cleaning jobs where a more aggressive approach is needed.



No. 19XZ88



No. 19XZ91

Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Vacuum Motor	Item No.
Canister Extractors					
12"	220 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ91**
13"	120 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ92**
Canister Extractors with Heat					
12"	120 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ93**
	220 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ89**
13"	120 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ94**
	220 psi	15 gal.	13.5 gal.	3-Stage, 0.685 HP	**19XZ90**
	50 to 500 psi	15 gal.	13.5 gal.	3-Stage, 0.342 HP	**19XZ88**

No. 450Z88





No. 2ZHU1

Liquid Defoamers

Zep™ Carpet Defoamer—Reduces or eliminates problems due to foam in recovery tanks, pump reservoirs, and cleaning machines.

Diversey Defoamer Liquid®—Pour into the recovery tank to eliminate foam and reduce related problems.

Recommended Dilution	Size	Brand	Item No.
RTU	1 gal.	Zep	**450Z88**
1:128	1 qt.	Diversey	**2ZHU1**





No. 30RR58

No. 30RR61



No. 30RR57
(Shown without attachments)

Sanitaire

RESTORE™ Carpet Extractors

These extractors provide high-performance cleaning power and help remove stains. No. 30RR58 cleans large areas with metal wand and floor tool for stain removal. No. 30RR61 has a floating brush and a fixed vacuum shoe for maximum recovery and cleaning strength. No. 30RR57 quickly spot cleans soiled carpets, rugs, and upholstery.

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Cord L	Item No.
Big Wheel Extractor	12"	100 psi	10 gal.	10 gal.	50 ft.	**30RR58**
Self-Contained Extractor	18"	100 psi	9 gal.	9 gal.	50 ft.	**30RR61**
Portable Spot Extractor	—	58 psi	1.5 gal.	1.5 gal.	15 ft.	**30RR57**



Restroom Cleaner

- Select operating pressure: 45/300 psi
- 25-ft. power cord

Cleans and rinses hard surfaces, blow dries them, then recovers the dirty water without operator touching any contaminated surfaces. Rotationally molded construction with large wheels. Includes floor wand, pressure gun, scrub brush, floor and hand squeegee, blower, and gulper tool.

Description	Solution Tank Cap.	Vacuum Tank Cap.	Item No.
ASC-15 All-Surface Cleaning Machine	15 gal.	19 gal.	**4VDV8**



No. 2CDP1



No. 2CDP2

CORTECH

Intense Use Floor Machines

- 50-ft. power cord
- 115V, 60 Hz

Tamperproof machines are ideal for institutional use where security and safety is an issue. Features cast-aluminum base with powder-coated finish.

Machine Size	Motor	Power Source	Brush Speed	Mfr. Model	Item No.
Floor Polishers					
17"	1.5 HP	115VAC @ 15A, 60 Hz	175 rpm	535403	**2CDP3**
20"	1.5 HP	115VAC @ 15A, 60 Hz	175 rpm	535414	**2CDP1**
Dual-Speed Floor Polisher					
20"	1.5 HP	115VAC @ 15A, 60 Hz	175/300 rpm	535433	**2CDP4**
Floor Burnisher					
20"	1.5 HP, DC Rectified	115VAC @ 15A, 60 Hz	1500 rpm	545402	**2CDP2**
Pad Drivers					
17" Pad Driver for No. 2CDP3				505903	**4KYA9**
20" Pad Driver for No. 2CDP1				505905	**4KYC1**
20" Pad Driver for No. 2CDP4				505909	**4KYC2**



No. 36RE52

BISSELL BigGreen Commercial

Walk-Behind Carpet Extractor

Extractor machine includes 2 motors and is for commercial deep cleaning. Designed to clean forward and backward. Flow indicator monitors water and solution levels and lets you know when it's time to refill the tank. Large clean water tank removes for easy filling. Powerful edge-to-edge suction. No. 36RE93 is a commercial 10-ft. long hose with 5½" wide upholstery tool.

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Cord L	Item No.
Walk Behind Carpet Extractor	10½"	26 psi	1.75 gal.	1.75 gal.	25 ft.	**36RE52**
Vacuum Hose						**36RE93**



i-mopXL Scrubber

Simple to operate scrubber is ideal for working in tight spaces and underneath obstacles with intuitive controls and a 360° handle. Features a powerful motor twice the speed of most scrubbers and cleans and dries 1,000 sq.-ft. of obstructed space in less than 5 minutes. Scrubber is light enough to carry easily and features a foldable scrub deck and transport wheels.

Cleaning Path	Solution Tank Cap.	Recovery Tank Cap.	Item No.
18"	1 gal.	2 gal.	**54DC45**



No. 19YA01

NOBLES

Hard Floor Cleaner

- Solution flow: 400-1200 psi
- 40-ft. power cord

Rugged cleaner delivers exceptional results on tile, grout, and other hard surfaces. Ease of operation allows you to spend more time cleaning than setting up, tearing down, and moving between jobs. Includes hard surface turbo tool, 25-ft. vacuum and solution hoses, and hospital-grade safety yellow electrical cords.

Cleaning Path	Solution Tank Cap.	Recovery Tank Cap.	Max. Productivity	Brush Speed	Item No.
Cleaner					
4½"	15 gal.	13.5 gal.	800 to 1000 sq. ft./hr.	1400 rpm	**19YA01**
Accessories					
Upholstery Tool					**19XZ95**
Corner Tool					**19XZ96**
Hose Bag					**19YA02**
Hard Surface Tool					**19YA03**



No. 1YMR1

CORTECH

Intense Use Tile and Baseboard Cleaner

- 6-ft. power cord

Tamper-resistant machine for intense scrubbing of hard-to-reach areas that are common to institutional or correctional environments. Lightweight and versatile. Sturdy comfort grip handle can be rotated for use at a right angle.

Machine Size	Power Source	Brush Speed	Mfr. Model	Item No.
Cleaner				
6½"	120VAC @ 60 Hz	765 rpm	515460	**1YMR1**
Accessories				
6½" Mal-Grit Brush			510950	**1YMR2**
6" Pad Driver			515950	**1YMR3**

Floor Machines

FLOOR MACHINES

Speedshine™ multipurpose floor machines clean, strip, and polish hard floors, and clean carpeted floors. Durable, corrosionproof polyethylene construction. Feature twist-grip operation with safety lock. Include pad driver.

Single-Speed—60 dBA. Quiet operation in sound-sensitive areas.

Dual-Speed—71 dBA. Switches from 185 rpm low-speed scrubber to a 330 rpm floor polisher for additional versatility.

Orbital Single-Speed—70 dBA. Rectangular scrub head reaches into corners and hard-to-reach areas.

PAD DRIVERS AND ROTARY BRUSHES

Brushes won't tear or lose their shape on any surface: new, old, or uneven.

Polypropylene Scrub Brushes—An economical choice for general scrubbing.



No. 4VDX6



No. 21ML52

Machine Size	Motor	Power Source	Brush Speed	Cord L	Mfr. Model	Brand	Item No.
Floor Machine, Single-Speed							
17"	1.5 HP	115VAC @ 15A, 60 Hz	175 rpm	50 ft.	9007330	Tennant	**4VDX6**
20"	1.5 HP	115VAC @ 15A, 60 Hz	175 rpm	50 ft.	9007336	Tennant	**4VDX7**
Floor Machine, Dual-Speed							
20"	1.5 HP	120VAC @ 12A, 60 Hz	185/330 rpm	50 ft.	9007334	Tennant	**4VDX8**
Orbital Floor Machine, Single-Speed							
20"	1.5 HP	120VAC @ 9A, 60 Hz	1740 rpm	50 ft.	1071994	Tennant	**21ML52**
Solution Tank							
4-gal. Tank Includes Solution Hoses and Connection Fittings, For Use With 4VDX6, 4VDX7, 4VDX8					1045875	Tennant	**4VLZ9**

Fits Machine Scrub Path	TOUGH GUY PAD DRIVERS Item No.	TOUGH GUY POLYPROPYLENE SCRUB BRUSHES Item No.	TOUGH GUY GRIT BRUSHES Item No.
13"	**1MEK2**	**1MEK1**	**1MEJ9**
17"	**1MEJ1**	**1MEJ2**	**1MEJ3**
20" - Single Speed	**1MEJ5**	**1MEJ6** *	**1MEJ7** *

**** Do not use brushes in 300 rpm mode.***



No. 6UFR4

Floor Machines

All-metal construction and an all-steel, triple planetary gear box provides durability. Safety lockout switch ensures machine is only used by a trained operator. Include pad driver.

Machine Size	Motor	Power Source	Brush Speed	Cord L	Item No.
Single-Speed					
17"	1.5 HP	115VAC @ 15A, 60 Hz	175 rpm	50 ft.	**6UFR5**
20"	1.5 HP		175 rpm	50 ft.	**6UFR4**
Dual-Speed					
20"	1.5 HP	115VAC @ 15A, 60 Hz	185/330 rpm	50 ft.	**4NEK1**
Polyethylene Solution Tank					
2.5-gal. Tank, For Use With Nos. 6UFR5, 6UFR4, 4NEK1					**6XKJ0**

Description	Item No.
Replacement Pad Drivers	
16" Pad Driver for No. 6UFR5	**4NEK2**
19" Pad Driver for No. 6UFR4	**4NEK3**



No. 31YA62



No. 49H330

Battery-Operated Floor Burnishers

Provide 15- to 40-lb. of pad pressure and floating suction head for excellent pad-to-floor contact. Deliver propane-like gloss in an ultraquiet, ergonomic, and easy-to-use machine. Built-in dust control system captures 0.3 micron particles for improved air quality. Low-profile design for cleaning under shelves and fixtures. Feature onboard user graphics and troubleshooting guide. Burnish small and large areas quickly and efficiently. Cover up to 21,000 sq. ft./hr. with 2.5 hr. run time on a single charge.

Motor	Power Source	Brush Speed	Pad Size	Item No.
Active Dust Control with HEPA Filtration at 99.97% and At 0.3 Micron				
2.8 HP	(3) 12V 185A	2100 RPM	20"	**31YA62**
2.8 HP	(3) 12V 225A	2100 RPM	20"	**31YA63**
3.6 HP	(6) 6V 240A	1875 RPM	24"	**31YA64**
3.6 HP	(6) 6V 330A	1875 RPM	27"	**31YA65**
Active Dust Control with HEPA Filtration				
4 HP	(6) 6V 435A Lead Acid Batteries	1500 to 1600 rpm	24"	**49H331**
4 HP	(6) 6V 435A Lead Acid Batteries	1500 to 1600 rpm	27"	**49H333**
Passive Dust Control				
4 HP	(6) 6V 435A Lead Acid Batteries	1500 to 1600 rpm	24"	**49H330**
4 HP	(6) 6V 435A Lead Acid Batteries	1500 to 1600 rpm	27"	**49H332**

High-Speed Burnishers

HIGH-SPEED BURNISHER

High-speed, all-metal burnisher has large transport wheels for easy maneuverability. Safety lockout switch ensures machine free-floating head is only used by a trained operator. Includes pad driver.

DUST-CONTROL BURNISHER

High-speed burnisher provides a high gloss finish while controlling dust. Includes folding handle, handle-mounted release, safety lockout switch, and pad driver.



No. 4NEK5

Description	Motor	Brush Speed	Pad Size	Item No.
Burnishers				
High-Speed Burnisher	1.5 HP, DC Rectified	1500 rpm	20"	**4NEK5**
Dust Control Burnisher	1.5 HP, DC Rectified	2000 rpm	20"	**14X834**
Collection Bags for No. 14X834				
1L Cap. Bags, Pkg. of 5				**14X835**

High-Speed Burnishers

BR-1600-NDC—Free-floating pad driver provides a high shine on uneven floors. Constructed of noncorrosive rotationally-molded plastic. Can operate off a 15 amp circuit and can cover over 10,000 sq. ft./hr.

BR-2000-DC—Smooth operation with extremely low vibration reduces operator fatigue. Free-floating head produces even results on uneven floors with a 2000 rpm motor for excellent gloss. Flexible dust skirt and dust control system captures 0.3 micron particles. Folding handle for easy storage and transport. Covers 15,000 sq. ft./hr.



No. 4VDX5

Description	Motor	Brush Speed	Pad Size	Item No.
BR-1600-NDC	1.5 HP	1600 rpm	20"	**4VDX5**
BR-2000-DC	1.5 HP	2000 rpm	20"	**4VDX4**



No. 4VDW7

Industrial Walk-Behind Floor Sweeper

Cleans hard floor surfaces up to 40,000 sq. ft. per hr. Up to 3 hr. run time. Hopper can hold up to 150 lb. Mechanical filter shaker and filter panel capture dust down to 3 microns. Includes 155A battery, charger, main and side broom.

Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Mfr. Model	Item No.
34"	24V	2.8 cu. ft.	15"	40,800 sq. ft./hr.	M-S10	**4VDW7**

Description	Mfr. Model	Item No.
Replacement Parts		
Side-Mounted Main Broom	28007P	**4VMC3**
Top-Mounted Side Brush	28096P	**4VMC4**



No. 4VDW8

Compact Rider Floor Sweeper

Unit cleans carpeted or hard floor surfaces up to 56,000 sq. ft. per hr. 30" cleaning path allows unit to clean in tight spaces. Hopper can hold up to 200 lb. Automatic filter shaker and patented VCS filter panel capture dust down to 3 microns. Includes 220A battery, charger, main and side broom. Sweeper is 59.9"L x 31.75"W x 46.38"H.

Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Mfr. Model	Item No.
30"	36V	3 cu. ft.	16"	56,000 sq. ft./hr.	MV-6100-0005	**4VDW8**

Description	Mfr. Model	Item No.
Replacement Parts		
Side-Mounted Main Broom	81888	**4VMC1**
Top-Mounted Side Brush	80042	**4VMC2**



Walk-Behind Floor Sweeper

Large-capacity cordless machine has the power and portability you need to sweep large areas, indoors or out. Effective on most surfaces, from carpeting to concrete. Quiet, 62 dBA sound level lets you sweep anytime, even in noise-sensitive environments. Runs on a maintenance-free rechargeable 12V battery. 0.3 micron filtration. Includes brushes, battery, and onboard charger.

Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Mfr. Model	Item No.
35"	12V	2.2 cu. ft.	14"	23,620 sq. ft./hr.	9010139	**21ML71**



No. 21ML67



No. 5Z042

Floor Sweepers

- Adjustable main and side brooms
- Easy-to-empty hopper

Battery-Powered Sweeper—Compact machine easily cleans most indoor and outdoor surfaces in a single pass. Quiet, 62 dBA sound level lets you sweep anytime, even in noise-sensitive environments. 0.3 micron filtration. Runs on a maintenance-free rechargeable 12V battery. Includes brushes, battery, and onboard charger.

Push Sweepers—Lightweight, durable sweepers are easy to maneuver for cleaning dirt, dust, and litter from hard surfaces such as asphalt, wood, or cement. Rotary side broom sweeps debris into the path of the main broom, which feeds the large hopper. Dent- and rust-resistant construction stands up to rough use. No. 21ML62 can also be used on carpeting.

Description	Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Brand	Mfr. Model	Item No.
Walk Behind Sweeper	24"	12V	1.3 cu. ft.	12"	13,850 sq. ft./hr.	Nobles	1071118	**21ML67**
Walk Behind Sweepers	27"	—	1.6 cu. ft.	12"	—	Dayton	5Z042	**5Z042**
	34"	—	1.3 cu. ft.	13"	18,750 sq. ft./hr.	Nobles	1071116	**21ML62**

Description	Item No.
Dayton® Replacement Parts	
Main Broom for No. 5Z042	**1UNE3**
Side Broom for No. 5Z042	**1UNE2**



No. 4VDW1



No. 15A757

Wide-Area Carpet Vacuums

Both low-profile vacuums feature 1800 rpm brush speed.

No. 4VDW1 has a 9-qt. capacity. 99% filtration efficiency at 0.1 microns. 73 dBA. Includes a standard paper filter, 50-ft. power cord, and disposable bag.

No. 15A757 has a 1.6-bushel capacity. 99% filtration efficiency at 0.3 microns. 70 dBA. Includes HEPA filter, 75-ft. power cord, cloth bag, and 2 disposable bags.

Description	Cleaning Path	HP	Amps	Mfr. Model	Item No.
Upright Vacuum	26"	1 HP	10	9007457	**4VDW1**
Walk-Behind Vacuum	30"	1 HP	12.6	1068029	**15A757**

Walk-Behind Floor Scrubbers and Brushes

Cover up to 34,964 sq. ft. with an estimated run time of 6.9 hr. Easy-to-understand controls feature a variable-speed control bail, propel toggle, speed setting, and charger. Corrosion-resistant, disc-style scrub deck. Rustproof polyethylene body and tanks. Deliver up to 200 lb. of scrubbing pressure. Sound level: 69.2 dBA.

No. 488Z22 with ec-H2O NanoClean® technology converts water to a detergent-free solution to clean oils and other tough soils with no need to buy, mix, or store hazardous cleaning chemicals.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Mfr. Model	Item No.
Walk-Behind Floor Scrubbers—Disc-Style Deck						
32"	(6) 6V 240AH Batteries	0.75 HP	32 gal.	37 gal.	MV-T600-0001	**488Z21**
32"	(6) 6V 360AH Batteries	0.75 HP	32 gal.	37 gal.	MV-T600-0002	**488Z22**
32"	(6) 6V 240AH Batteries	0.75 HP	32 gal.	37 gal.	MV-T600e-0017	**488Z24**
32"	(6) 6V 240AH Batteries	0.75 HP	32 gal.	37 gal.	MV-T600e-0016	**488Z23**

Description	For Use With	Item No.
Replacement Parts and Accessories		
Rotary Brushes	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0017	**488Z64**
	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0017	**488Z65**
	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0017	**488Z66**
	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0017	**488Z67**
Pad Driver	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0017	**488Z68**
Front Squeegee Blade	Mfr. No. MV-SS500-0027, MV-SS500-0028, MV-SS500-0032, MV-SS500-0033, MV-SS500-0034, MV-SS500-0035, MV-T600-0001, MV-T600-0002	**54TP48**
Rear Squeegee Blade	Mfr. No. MV-SS500-0027, MV-SS500-0028, MV-SS500-0032, MV-SS500-0033, MV-SS500-0034, MV-SS500-0035, MV-T600-0001, MV-T600-0002	**54TP49**
Vacuum Float Shutoff Ball	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0016, MV-T600e-0017	**488Z72**
Vacuum Cleaner Inline Filter	Mfr. No. MV-T600-0001, MV-T600-0002, MV-T600e-0016, MV-T600e-0017	**488Z73**



No. 488Z21

Industrial Rider Floor Scrubbers and Brushes

Clean up to 38,280 sq. ft. per hour. Feature a shock-absorbing frame and a durable polyethylene exterior. Rotomolded tanks are suitable for daily commercial or industrial use. A large front wheel and 3-pt. wheel design for maneuverability in tight spaces.

Cylindrical Deck, No. 49H340—Delivers up to 200 lb. of scrubbing pressure.

Disc-Style Deck, No. 49H339—Delivers up to 250 lb. of scrubbing pressure.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	CYLINDRICAL DECK Mfr. Model	CYLINDRICAL DECK Item No.	DISC-STYLE DECK Mfr. Model	DISC-STYLE DECK Item No.
Industrial Rider Floor Scrubbers								
32"	240Ah Battery	0.85 HP	35 gal.	44 gal.	MV-T12-0012	**49H340**	MV-T12-0011	**49H339**

Description	Item No.
Replacement Brushes and Pad Drivers	
Brushes	
Cylindrical Poly Scrub	**49H341**
Cylindrical HD Poly Scrub	**49H342**
Cylindrical Abrasive Scrub	**49H343**
Disk HD Poly Scrub	**49H344**
Disk Abrasive Bristle Scrub	**49H345**
Pad Drivers	
13" Pad For 26" Machine	**4VLX7**
16" Pad for 32" Machine	**4VMA8**

Description	Size	Item No.
Chemicals		
Neutral pH Daily Cleaner, Clear	2.5 gal.	**6ENZ7**
Cleaner, Purple Color	2.5 gal.	**6ENZ8**
Neutral Solvent Degreaser, Yellow Color	2.5 gal.	**6ENZ9**



No. 49H339

NOBLES

Micro Rider Floor Scrubbers and Brushes

Cover over 75,000 sq. ft. on a single charge; over 4½-hr. continuous run time. Clean a variety of surfaces and up to a 4° incline. Have easy-to-use, 1-button control. Indicator lights warn when solution tank is empty and recovery tank is full.

Cylindrical Deck—Deliver up to 120 lb. of scrubbing pressure and operate at 69 dB.

Disc-Style Deck—Deliver up to 160 lb. of scrubbing pressure and operate at 67 dB.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	CYLINDRICAL DECK Mfr. Model	CYLINDRICAL DECK Item No.	DISC-STYLE DECK Mfr. Model	DISC-STYLE DECK Item No.
Micro Floor Scrubbers								
26"	235Ah Battery	3 Stage 0.6 HP	29 gal.	29 gal.	—	—	MV-SSR-0011	**4VDL6**
28"	235Ah Battery	3 Stage 0.6 HP	29 gal.	29 gal.	MV-SSR-0015	**4VDN1**	—	—
32"	235Ah Battery	3 Stage 0.6 HP	29 gal.	29 gal.	MV-SSR-0017	**4VDN3**	MV-SSR-0013	**4VDL8**

Description	For Use With	Item No.
Replacement Brushes and Pad Drivers		
Poly Brushes	Mfr. No. MV-SSR-0011	**4VLX8**
	Mfr. No. MV-SSR-0013	**4VLY2**
	Mfr. No. MV-5700-0003, MV-SSR-0015	**4VLX9**
	Mfr. No. MV-SS5-0025, MV-5700-0004, MV-SSR-0017	**4VLY3**

Description	For Use With	Item No.
13" Pad For 26" Machine	Mfr. No. MV-SSR-0011	**4VLX7**
Pad Driver	Mfr. No. MV-SSR-0013	**4VLY1**



No. 4VDL6



No. 53TX65

NOBLES

Mid-Size Walk-Behind Floor Scrubbers and Brushes

Large drive wheels and tight wheel base coupled with a parabolic squeegee provides maneuverability and easy water pick up on turns. Constructed with noncorroding scrub deck and roto-molded tanks; built for commercial and light industrial use. Ideal for noise-sensitive environments. Feature 1-button, quick-train controls and no-tool squeegee change for easy operator training. Cleans up to 20,000 sq. ft. per hr. Console is height adjustable and the onboard charger allows the unit to be easily stored.

Cylindrical Deck—Operates at 68 dB.

Disc-Style Deck—Operates at 67 dB.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	CYLINDRICAL DECK Mfr. Model	CYLINDRICAL DECK Item No.	DISC-STYLE DECK Mfr. Model	DISC-STYLE DECK Item No.
Mid-Size Floor Scrubbers								
26"	(4) 6V 225Ah Batteries	0.46 HP	22.5 gal.	27 gal.	—	—	MV-SS500-0025	**53TX59**
28"	(4) 6V 225Ah Batteries	0.46 HP	22.5 gal.	27 gal.	MV-SS500-0032	**53TX65**	MV-SS500-0027	**53TX61**
28"	(4) 6V 225Ah Batteries	0.46 HP	22.5 gal.	27 gal.	MV-SS500-0033	**53TX66**	—	—
32"	(4) 6V 225Ah Batteries	0.46 HP	22.5 gal.	27 gal.	—	—	MV-SS500-0029	**53TX63**

Description	For Use With	Item No.
Replacement Brushes and Pad Drivers		
Poly Brushes	Mfr. No. MV-SS5-0018	**4VLY5**
	Mfr. No. MV-SS5-0020	**4VLY8**
	Mfr. No. MV-SS5-0024	**4VLY6**
	Mfr. No. MV-SS5-0025, MV-5700-0004, MV-SSR-0017	**4VLY3**
Pad Drivers	Mfr. No. MV-SS5-0018	**4VLY4**
	Mfr. No. MV-SS5-0020	**4VLY7**



No. 39DK97

NOBLES

Compact Walk-Behind Floor Scrubbers and Brushes

Onboard charger allows scrubber to charge at any 120V outlet. Large drive wheels and tight wheel base coupled with parabolic squeegee increases maneuverability and allows for easy water pickup on turns. Provide 90 lb. of brush scrubbing pressure with a whisper quiet 68.5 dBA design.

Cleaning Path	Power Source	Brush Motor	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Mfr. Model	Item No.
Compact Floor Scrubbers							
17"	105Ah Battery	1 HP	0.5 HP	11 gal.	14 gal.	MV-SS300-0001	**39DK97**
20"	105AH Battery	1 HP	0.5 HP	11 gal.	14 gal.	MV-SS300-0003	**39DK99**
20"	130Ah Battery	1 HP	0.5 HP	11 gal.	14 gal.	MV-SS300-0005	**39DL02**
20"	155Ah Battery	0.6 HP	0.5 HP	11 gal.	14 gal.	MV-SS300-0009	**39DL06**

Description	For Use With	Item No.
Replacement Brushes and Pad Drivers		
Poly Brushes	Mfr. No. MV-SS300-0001	**4VLZ3**
	Mfr. No. MV-SS300-0003	**4VLZ5**
Pad Drivers	Mfr. No. 9002885-H, 9002886-H	**4VLZ2**
	Mfr. No. 9002887-H, 9003062-H, 9003063-H, 9003064-H	**4VLZ4**



No. 4NEL4

Dayton

Walk-Behind Floor Scrubbers and Brushes

Feature parabolic squeegee and shroud-protected scrub deck. All include traction drive battery, except No. 40PM20 which is corded. No. 14X831 provides up to 200 lb. of brush scrubbing pressure. Nos. 4NEL8 and 14X832 provide up to 150 lb. of brush scrubbing pressure.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Item No.
Floor Scrubbers					
17"	120VAC, 60 Hz	0.6 HP	13 gal.	11 gal.	**40PM20**
20"	(2) 12V, 105Ah Batteries	0.75 HP	13 gal.	15 gal.	**4NEL4**
	(2) 12V, 215Ah Batteries	0.75 HP	16 gal.	16 gal.	**14X831**
26"	(2) 215Ah Batteries	0.75 HP	17 gal.	17 gal.	**4NEL8**
28"	(2) 12V, 215Ah Batteries	3 Stage 0.8 HP	17 gal.	17 gal.	**14X832**

Machine Size	Brushes Req.	Item No.
Replacement Poly Brushes		
20"	1	**4NEL7**
26"	2	**4NEN2**
28"	2	**14X833**



No. 4VDR3

Dayton NOBLES

Compact 15" Floor Scrubbers

Dual squeegees allow forward cleaning. Adjustable handle, all-in-one trigger operation, and simple controls for operator comfort. Battery-operated models eliminate cord hazards and constraints with quiet 68 dBA design. Ideal for grouted tile floors, kitchens, locker rooms, hotel, and hospitals.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Mfr. Model	Item No.
AGM Battery-Operated (Includes Charger), Dayton						
15"	(2) 33Ah Battery	0.5 HP	3.5 gal.	3.5 gal.	20HW28	**20HW28**
AGM Battery-Operated (Includes Charger), Nobles						
15"	50Ah Battery	0.5 HP	2.5 gal.	3.4 gal.	9008637	**10D945**
Electric (Includes 50-ft. Power Cord), Nobles						
15"	120VAC, 60 Hz	1.2 HP	3 gal.	4.5 gal.	9004200-H	**4VDR3**
Li-Ion Battery-Operated, Nobles						
15"	Lithium Ion Battery	0.5 HP	2.5 gal.	3.4 gal.	9008640	**10D946**

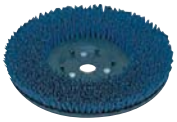

No. 1MEE7


No. 1MEP2


No. 1MEP9


No. 1MEC9


No. 1MEC8


No. 1MER7

TOUGH GUY


No. 1MEE5


No. 1MEK8

Replacement Floor Scrubber Rotary Brushes

No. 1MEH6 Clutch Plate sold below. More sizes and styles available on Grainger.com®.

POLY GENERAL SCRUBBING BRUSH

Polypropylene 0.028" bristles for general scrubbing of most floor types.

NYLON GENERAL SCRUBBING BRUSH

Nylon 0.028" bristles for general scrubbing of most floor types.

LIGHT SCRUBBING BRUSHES

Nylon 0.018" fibers with 500-grit silicon carbide for light-to-medium scrubbing of vinyl, sealed concrete, terrazzo, slate, and marble floors.

MEDIUM SCRUBBING BRUSHES

Nylon 0.022" fibers with 320-grit silicon carbide for medium to mildly aggressive scrubbing of resilient floors, nonslip flooring, terrazzo, quarry tile, and concrete. Asymmetrical bristles for effective cleaning on uneven surfaces.

STRIPPING BRUSHES

Nylon 0.050" fibers with 80-grit silicon carbide for aggressive scrubbing of concrete and stripping of resilient floors, terrazzo, and tile. Constructed with bristles of different lengths that work well on uneven surfaces.

HEAVY-DUTY STRIPPING BRUSHES

Nylon 0.060" fibers with 46-grit silicon carbide for aggressive scrubbing of concrete surfaces and aggressive stripping of resilient floors. Irregular bristle length assures cleaning on uneven surf aces.

CARPET CLEANING BRUSHES

Polyester bristles scrub carpet while glide plate supports the weight of the machine.

SANDING DISCS

For aggressive and effective sanding of wood floors.

CLUTCH PLATE

For brushes and pad drivers with 5" dia. center holes. Cast of durable zinc alloy.

Machine Size	Block Size	POLY GENERAL SCRUBBING Item No.	NYLON GENERAL SCRUBBING Item No.	LIGHT SCRUBBING Item No.	MEDIUM SCRUBBING Item No.
13"	11"	—	1MEP2	1MEP9	1MEF3
15"	13"	—	1MEP3	1MER1	1MEF7
16"	14"	—	—	1MER2	1MEG2
17"	15"	1MEE7	1MEP5	1MER3	1MEC9
18"	16"	—	1MEP6	1MER4	—
19"	17"	—	1MEP7	1MER5	—
20"	18"	1MEE6	1MEP8	1MER6	—

Machine Size	Block Size	STRIPPING BRUSHES Item No.	HEAVY-DUTY STRIPPING Item No.	CARPET CLEANING Item No.
13"	11"	1MEF4	1MER7	—
15"	13"	1MEF8	1MER8	—
16"	14"	1MEG3	1MER9	—
17"	15"	1MEE1	1MET1	1MEE5
18"	16"	1MEG8	1MET2	—
19"	17"	1MEH3	1MET3	—
20"	18"	1MEC8	1MET4	1MEE4

Machine Size	Block Size	SANDING DISCS Item No.
16" or 17"	15"	1MEK8
17" or 18"	16"	1MEK9
18" or 19"	17"	1MEL1
19" or 20"	19"	1MEL2

Description	Item No.
Clutch Plate	1MEH6

Dayton

Indoor/Outdoor Vacuum



Quickly and easily cleans small-to-medium areas, collecting litter, dirt, and debris from any hard surface area or low-nap commercial carpeting. Heavy-duty nylon impeller mulches as it cleans. 19"W nozzle with 1½" intake has 2 height settings and an easy-access On/Off switch. 8-gal. filter/collector bag has a zipper for easy emptying. Built-in kickstand. Single-stage motor. Double insulated. 120V, 60 Hz.

Cleaning Path	Amps	Vacuum Cap.	Power Cord L	Net Wt.	Item No.
19"	6	8 gal.	1½ ft.	19 lb.	6H003


No. 5N426


No. 3U908


No. 3U911


No. 3HKD4

Rubbermaid Commercial Products

Carpet Bonnets

Extend carpet life and enhance appearance when used for interim carpet maintenance. Double edge stitching extends bonnet life.

Low-Profile Bonnets—Provide improved operator control on rotary floor machines from 175 to 300 rpm.

Low-Profile With Scrubbing Strips—Deliver extra scrubbing action for improved cleaning performance.

Standard Thickness Bonnets—Work well with shampoo or solvent-based chemicals. Use with standard 175 rpm rotary floor machines for intensive carpet maintenance.

Microfiber Bonnets—Offer better cleaning power and longer product life. Can withstand over 100 launderings and has double the durability of standard blend bonnets.

Size	LOW PROFILE Item No.	LOW PROFILE W/ SCRUBBING STRIPS Item No.	STANDARD THICKNESS Item No.	MICROFIBER STANDARD THICKNESS Item No.
19"	5N426	3U909	3U912	3HKD5
17"	—	3U908	3U911	3HKD4
21"	—	3U910	3U913	3HKD6

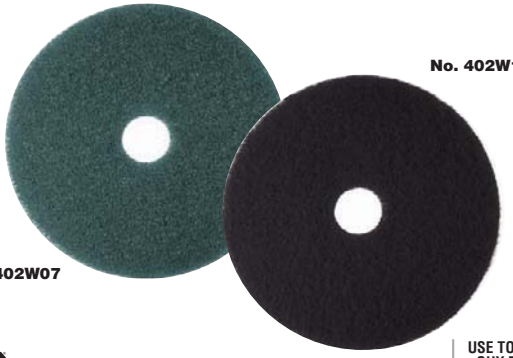
Scotch-Brite™

Floor Surface Preparation Pads


No. 1EKC3

Use with rotary or automatic floor machines. These environmentally preferable floor pads require only a neutral cleaner or water, reducing the use of chemicals. Nonwoven mineral floor pad construction enables pad to remove floor finish from a variety of hard floor surfaces, including vinyl tile, marble, terrazzo, concrete, and wood floors. Compatible with water-based or solvent-based finishes.

Color	Center Hole	Size	Speed	Mfr. Model	Item No.	Pkg. Qty.
Maroon	3¾"	13"	175 to 350 rpm	SPP13	4LGR1	10
	3¾"	15"	175 to 350 rpm	SPP15	1EKC3	10
	3¾"	16"	175 to 350 rpm	SPP16	1EKC4	10
	3¾"	17"	175 to 350 rpm	SPP17	4LGR2	10
	3¾"	20"	175 to 350 rpm	SPP20	1EKC5	10



Stripping Pads

Use for long-lasting stripping of finish, dirt and buildup. High-performance pads are ideal for heavy-duty stripping of finish, dirt and buildup. 175 to 600 rpm.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Stripping Pads				
Black	11"	5	402V96	—
	13"	5	402V97	—
	15"	5	402V98	—
	16"	5	402V99	—
	17"	5	402W01	1MEG4
	18"	5	402W02	1MEG5
	19"	5	402W03	1MEG9
	20"	5	402W04	1MEH4
Blue	11"	5	402W05	—
	12"	5	402W06	—
High-Performance Stripping Pads				
Black	11"	5	402W14	—
	13"	5	402W15	—
	17"	5	402W16	1MEG4
	18"	5	402W17	1MEG5
	19"	5	402W18	1MEG9
	20"	5	402W19	1MEH4

** 3.25"-dia. center hole.*







Scrubbing Pads

Use pads prior to recoating to remove dirt, spills, and scuffs and leave a prepared clean surface. Blue pads are heavy-duty and green pads are extra heavy-duty for more difficult jobs.

Color	Size	Speed	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Blue	13"	175 to 600 rpm	5	402W07	—
	14"	175 to 600 rpm	5	402W08	—
	15"	175 to 600 rpm	5	402W09	—
	16"	175 to 600 rpm	5	402W10	—
	17"	175 to 600 rpm	5	402W11	1MEG4
	19"	175 to 600 rpm	5	402W12	1MEG9
	20"	175 to 600 rpm	5	402W13	1MEH4
Green	11"	175 to 600 rpm	5	402W26	—
	12"	175 to 600 rpm	5	402W27	—
	13"	175 to 600 rpm	5	402W21	—
	14"	175 to 600 rpm	5	402W22	—
	14" x 20"	3000 rpm	10	402W25	—
	15"	175 to 600 rpm	5	402W28	—
	16"	175 to 600 rpm	5	402W29	—
	17"	175 to 600 rpm	5	402W23	1MEG4
	19"	175 to 600 rpm	5	402W30	1MEG9
	20"	175 to 600 rpm	5	402W24	1MEH4
	23"	175 to 600 rpm	5	402W31	—
	24"	175 to 600 rpm	5	402W32	—

** 3.25"-dia. center hole.*







3M Trizact™ Diamond TZ Abrasive Polishing Pads

Provide a smooth, refined surface by consistently and rapidly smoothing and leveling stone floor surfaces. Easily buff, burnish, and polish and are ideal for jobs requiring a fine finish. Gold pads are the most abrasive and are ideal for areas where there is visible damage and wear. Red pads are medium abrasive and blue pads are fine abrasive.

Color	Size	Pad/Brush Shape	Speed	Item No.	Case Qty.
Gold	3¾" x 9"	Rectangular	3000 rpm	401M67	6
	5"	Round	150 to 400 rpm	401M64	4
Red	3¾" x 9"	Rectangular	3000 rpm	401M68	6
	5"	Round	150 to 400 rpm	401M65	4
Blue	3¾" x 9"	Rectangular	3000 rpm	401M69	6
	5"	Round	150 to 400 rpm	401M66	4





Scotch-Brite™ Purple Diamond Floor Pads

Diamond-coated floor pads for cleaning and polishing marble, terrazzo, slate and polished concrete flooring.

Size	Pad/Brush Shape	Speed	For Use With	Item No.	Case Qty.
14" x 20"	Rectangular	175 to 600 rpm	Rotary or Automatic Floor Machines	401M71	5
13"	Round	175 to 350 rpm or 1500 to 3000 rpm	Automatic Floor Scrubbers or Electric, Battery or Propane Burnishers	4LGR3	5
17"	Round	175 to 350 rpm or 1500 to 3000 rpm		4NYU7	5
20"	Round	175 to 350 rpm or 1500 to 3000 rpm		4NYU8	5
27"	Round	175 to 600 rpm	Rotary or Automatic Floor Machines	19T378	5



Burnishing Pads

Aqua—Use for daily high-frequency burnishing programs. Specifically designed for soft finishes and produces less powdering and higher gloss levels.

Tan—Specifically formulated pad for dry burnishing and designed for mark removal on harder finishes or in high-traffic areas. Produce brilliant "wet-look" gloss. For low to moderate burnishing programs.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Aqua	13"	5	402W33	—
	15"	5	402W34	—
	17"	5	402V78	1MEG4
	19"	5	402V79	1MEG9
	20"	5	402V80	1MEH4
	21"	5	402V81	—
	24"	5	402V82	—
	27"	5	402V83	—
Tan	13"	5	402W41	—
	15"	5	402W42	—
	17"	5	402V89	1MEG4
	18"	5	402W43	1MEG5
	19"	5	402V90	1MEG9
	20"	5	402V91	1MEH4
	21"	5	402V92	—
	24"	5	402V93	—
	27"	5	402V94	—

** 3.25"-dia. center hole.*



Natural Hair Burnishing Pads

Polyester fiber contains minimum of 50% post-consumer recycled content. 1500 to 3000 rpm.

Beige—Higher content hog's hair and synthetic fiber pad. Designed for scratch removal on hard finishes and low frequency burnishing programs.

White—Natural hair and synthetic fiber pad provides excellent results on a wide variety of floor finishes and traffic conditions.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Beige	17"	5	402W20	1MEG4
	19"	5	402V84	1MEG9
	20"	5	402V85	1MEH4
	21"	5	402V86	—
	24"	5	402V87	—
	27"	5	402V88	—
White	17"	5	402W53	1MEG4
	19"	5	402W54	1MEG9
	20"	5	402W55	1MEH4
	21"	5	402W56	—
	27"	5	402W57	—

** 3.25"-dia. center hole.*

Buffing/Cleaning Pads

Red—Cleans when damp, buffs when dry. Removes scuff marks while polishing floors to a high gloss.

White—For buffing very soft finishes or for polishing soft waxes on wood floors.

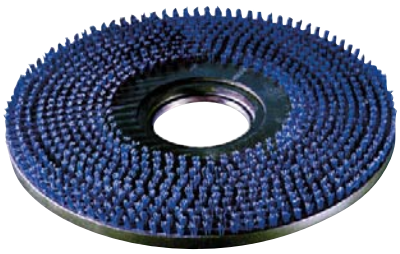
Color	Size	Speed	Case Qty.	Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Red	11"	175 to 600 rpm	5	402W35	—
	12"	175 to 600 rpm	5	402W44	—
	13"	175 to 600 rpm	5	402W36	—
	14"	175 to 600 rpm	5	402W45	—
	15"	175 to 600 rpm	5	402W37	—
	16"	175 to 600 rpm	5	402W46	—
	17"	175 to 600 rpm	5	402W38	1MEG4
	19"	175 to 600 rpm	5	402W39	1MEG9
	20"	175 to 600 rpm	5	402W40	1MEH4
White	11"	175 to 600 rpm	5	402W47	—
	12"	175 to 600 rpm	5	402W58	—
	12" x 18"	3000 rpm	5	402W59	—
	13"	175 to 600 rpm	5	402W48	—
	14"	175 to 600 rpm	5	402W60	—
	15"	175 to 600 rpm	5	402W49	—
	16"	175 to 600 rpm	5	402V95	—
	17"	175 to 600 rpm	5	402W50	1MEG4
	19"	175 to 600 rpm	5	402W51	1MEG9
	20"	175 to 600 rpm	5	402W52	1MEH4
	24"	175 to 600 rpm	5	402W61	—

** 3.25"-dia. center hole.*










No. 3U074


No. 3U062


No. 3U093

Stripping, Scrubbing, and Buffing/Cleaning Pads

Environmentally sustainable pads are washable and reusable.

STRIPPING PADS

For rotary and automatic floor machines.

High-Productivity Black 7300
Remove old finish, dirt, and buildup. Increase pad-to-floor contact for more efficient stripping. Use to strip heavy buildup or for quick stripping.

Black 7200
Wet strip floors, maintaining consistent performance throughout the pad life.

Brown 7100
Resilient pads can be used for wet or dry stripping on uneven floors. Quickly and easily cut through old finish to prepare floors for refinishing.

SCRUBBING PADS

Use with rotary and automatic floor machines.

Blue 5300
Remove dirt, spills and scuffs, leaving a clean surface ready for recoating. For heavy-duty scrubbing prior to recoating.

BUFFING/CLEANING PADS

Red 5100
Clean when damp, buff when dry. Use for light scrubbing without dulling the finish. For rotary and automatic floor machines.

White Super Polish 4100
Pad buffs very soft finishes and lower-traffic areas; or use for polishing soft waxes on wood floors. For rotary floor machines.

Description	Size	3M FLOOR PADS Case Qty.	3M FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Stripping Pads, 175 to 600 RPM				
Black 7300	13"	5	3U064	—
	15"	5	3U065	—
	17"	5	3U066	1MEG4
	19"	5	3U067	1MEG9
	20"	5	3U068	1MEH4
	28" x 14"	10	6ENF5	1MEH4
Black 7200	13"	5	3U069	—
	15"	5	3U071	—
	17"	5	3U072	1MEG4
	19"	5	3U073	1MEG9
	20"	5	3U074	1MEH4
	20" x 14"	10	6ENF7	—
	28" x 14"	10	6ENF8	—
Brown 7100	13"	5	4WD08	—
	15"	5	4WD10	—
	17"	5	4WD12	1MEG4
	19"	5	4WD14	1MEG9
	20"	5	4WD15	1MEH4
Scrubbing Pads, 175 to 600 RPM				
Blue 5300	13"	5	3U058	—
	15"	5	3U060	—
	17"	5	3U061	1MEG4
	19"	5	3U062	1MEG9
	20"	5	3U063	1MEH4
	20" x 14"	10	6ENG0	—
Buffing and Cleaning Pad, 175 to 600 RPM				
Red 5100	13"	5	3U089	—
	15"	5	3U091	—
	17"	5	3U092	1MEG4
	19"	5	3U093	1MEG9
	20"	5	3U094	1MEH4
	20" x 14"	10	6ENG3	1MEH4
	28" x 14"	10	6ENG4	1MEH4
	32" x 14"	10	6ENG5	1MEH4
White 4100	13"	5	3U083	—
	15"	5	3U085	—
	17"	5	3U086	1MEG4
	19"	5	3U087	1MEG9
	20"	5	3U088	1MEH4
Tough Guy Pad Holder				
For Use with Pad Drivers			1MEH9	—

** 5" dia. center hole. 16" and 18" pad drivers available on Grainger.com®.*


No. 3U079


No. 32V430


No. 5ND28

Preburnishing and Burnishing Pads

Environmentally sustainable pads are washable and reusable.

PREBURNISHING PADS

TopLine Autoscrubber Green 5000
For light scrubbing of floors before burnishing with minimal finish removal. For rotary or automatic floor machines.

BURNISHING PADS

For ultra high-speed floor machines.

Sky Blue Hi-Performance 3050
Restore gloss to dull floors. Great for frequent burnishing with less dust, point build up, and burning.

Aqua 3100
Produce a brilliant gloss on softer finishes or in lower traffic areas. Exceptional durability.

TopLine Peach 3200
Pads restore gloss to dull floors in a single pass. For use on floors with good base coat. Minimal finish removal.

Natural Blend White 3300
Use natural hair and synthetic fiber pads for outstanding results on a wide variety of finishes and traffic conditions. Provide high gloss while minimizing swirl marks.

Tan 3400
Provide a brilliant "wet-look" finish on harder finishes or high-traffic areas. Best choice for scratch and scuff removal.

Natural Blend Tan 3500
Natural hair and synthetic fiber pads provide excellent results on harder finishes and high-traffic areas. Remove marks and scuffs while polishing.

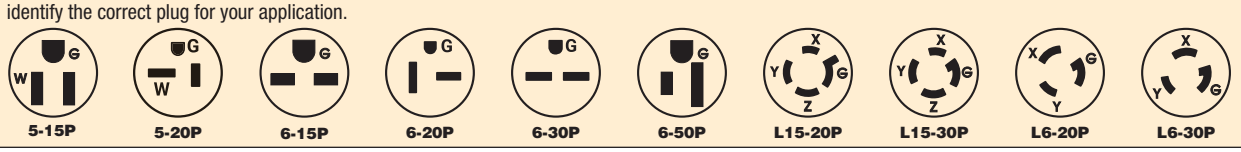
Eraser™ Pink 3600
For optimum results on harder finishes and heavy-traffic floors. Remove black marks, restore excellent gloss and image clarity.

Description	Size	3M FLOOR PADS Case Qty.	3M FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Preburnishing Pads, 175 to 600 RPM				
Green/Amber 5000	13"	5	3U077	—
	15"	5	4WG73	—
	17"	5	3U078	1MEG4
	19"	5	3U079	1MEG9
	20"	5	3U080	1MEH4
Burnishing Pads, 1500+ RPM				
Sky Blue 3050	17"	5	32V430	1MEG4
	19"	5	32V431	1MEG9
	20"	5	32V432	1MEH4
	27"	5	32V433	—
Aqua 3100	17"	5	4WD58	1MEG4
	19"	5	3U081	1MEG9
	20"	5	3U082	1MEH4
	21"	5	4WD59	—
	24"	5	4RU42	—
	27"	5	1CJ71	—
Peach 3200	17"	5	4WG83	1MEG4
	19"	5	3U075	1MEG9
	20"	5	3U076	1MEH4
	21"	5	3UZ71	—
	24"	5	4WG86	—
	27"	5	3UZ90	—
White 3300	17"	5	4WG89	1MEG4
	19"	5	4WG91	1MEG9
	20"	5	4WG92	1MEH4
	21"	5	4WG93	—
	24"	5	4WG95	—
	27"	5	4WJ31	—
Tan 3400	17"	5	4WC29	1MEG4
	19"	5	4WC30	1MEG9
	20"	5	4WC31	1MEH4
	21"	5	4WC32	—
	27"	5	4RU41	—
Tan 3500	17"	5	4WH04	1MEG4
	19"	5	3U095	1MEG9
	20"	5	3U096	1MEH4
	21"	5	4WH06	—
	24"	5	4WH09	—
	27"	5	4WJ27	—
Pink 3600	17"	5	5ND28	1MEG4
	19"	5	5ND29	1MEG9
	20"	5	5ND30	1MEH4
	21"	5	5ND31	—
	24"	5	4RU43	—
	27"	5	5ND32	—
Tough Guy Pad Holder				
For Use with Pad Drivers			1MEH9	—

** 5" dia. center hole. 16" and 18" pad drivers available on Grainger.com®.*

NEMA Plug Configurations

Standardized NEMA configurations were created to minimize the possibility of unsafe mating of unmatched voltages and amperages. Use the figures to help identify the correct plug for your application.



Cold Water Pressure Washers, Electric/Direct-Drive

NORTH AMERICA
First Choice When Quality Matters

- 3 piston axial pump
- Tempered stainless steel plungers
- GFCI protected

All models, except No. 5RCC2, feature a TSS motor (Total System Shutdown) which turns on and off when spray gun is activated and has an automatic safety valve with pressure shutoff at the head. Units include an adjustable high-pressure nozzle. All units include either foam bottle or chemical injector. Nos. 5RCC2 and 5RCC3 also come with a ceramic plunger and crank shaft pump. Nos. 20JZ25 to 20JZ27 include a turbo nozzle/lance. No. 468C08 has a quick-connect soap nozzle.


No. 5RCC2


No. 468C08

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Carry Style								
2.0	1900 psi	2.1 gpm	19	20+	GFCI	25 ft.	53 lb.	**5RCC2**
	1900 psi	2.1 gpm	19	20+	GFCI	25 ft.	55 lb.	**16X047**
Cart Style								
1.3	1500 psi	1.4 gpm	11	10 to 20	GFCI	¼" x 20 ft.	23 lb.	**20JZ25**
1.4	1700 psi	1.4 gpm	13	10 to 20	GFCI	¼" x 20 ft.	31 lb.	**35HX50**
1.5	1800 psi	1.3 gpm	13	10 to 20	GFCI	¼" x 20 ft.	32 lb.	**20JZ26**
1.6	2000 psi	1.4 gpm	14	10 to 20	GFCI	¼" x 30 ft.	42 lb.	**20JZ27**
1.9	1440 psi	1.4 gpm	12	20+	GFCI	¼" x 20 ft.	19 lb.	**468C07**
	1710 psi	1.3 gpm	13	30+	GFCI	¼" x 30 ft.	42 lb.	**468C08**
2.0	1900 psi	2.1 gpm	20	20+	GFCI	5/16" x 30 ft.	88 lb.	**5RCC3**

Cold Water Pressure Washers, Electric Motor

Mi-T-M
Performance Under Pressure.

- Crankshaft pump
- Solid ceramic pistons
- Downstream, low-pressure chemical injection
- Thermal relief valve prevents pump damage

Quiet operation and no engine exhaust make them ideal for indoor use.

DIRECT-DRIVE

35-ft. cord has ground fault circuit interrupter (except No. 3WB89). Include 36" insulated wand with 0° to 60° spray nozzle except Nos. 3WB88 and 3WB89 which are equipped with 15° and 25° high-pressure/chemical nozzle. Cart Style units include solid steel axles and tubed pneumatic tires. Max. intake water temp.: 125°F.

BELT-DRIVE

Stationary Style

Nos. 3WB73 and 3WB74 are designed for hot water use without any exhaust. Feature 4-ft. cord with ground fault circuit interrupter, user-adjustable time delay auto shutdown, and thermal overload protection. Industrial-duty motor is enclosed in an easy-to-access stainless steel cabinet. Max. intake water temp.: 180°F. Include 36" wand with 0°, 15°, 25°, and 40° quick-connect nozzles.

Cart Style

No. 20KC14 features thermal overload protection, external bypass system, and totally enclosed powder-coated belt guard. Includes 50-ft. ⅜" nonmarking hose, insulated lance and trigger gun with safety lock, and 10-ft. power cord.


Light Duty, 1.5 HP
No. 1TDK4


Medium Duty, 2 HP
No. 3WB87


Stationary Belt Drive, 6 HP
No. 3WB74

HP	Operating Pressure	Flow Rate	Volts/ Phase	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net Wt.	Item No.
Direct-Drive, Carry Style									
1.5	1400 psi	1.5 gpm	120/1	13.5	0 to 10	5-15P	⅜" x 25 ft.	45 lb.	**1TDK4**
Direct-Drive, Cart Style									
1.5	1000 psi	2.0 gpm	120/1	12.5	10 to 20	5-15P	⅜" x 25 ft.	90 lb.	**3WB86**
2.0	1500 psi	2.0 gpm	120/1	17	10 to 20	5-20R	⅜" x 25 ft.	90 lb.	**3WB87**
4.0	2000 psi	2.8 gpm	230/1	16	10 to 20	6-20P	⅜" x 25 ft.	112 lb.	**3WE20**
6.0	2500 psi	3.2 gpm	230/1	24.1	20+	6-30	⅜" x 25 ft.	225 lb.	**3WB88**
8.0	3000 psi	3.9 gpm	230/1	34.5	20+	6-50P	⅜" x 25 ft.	225 lb.	**3WB89**
Belt-Drive, Stationary Style									
2.0	1000 psi	2.5 gpm	120/1	18.8	20+	5-20P	⅜" x 50 ft.	172 lb.	**3WB73**
6.0	2000 psi	3.9 gpm	230/1	24.1	20+	L6-30P	⅜" x 50 ft.	214 lb.	**3WB74**
Belt-Drive, Cart Style									
8.0	3000 psi	3.5 gpm	230/3	20	20+	L15-30P	⅜" x 50 ft.	318 lb.	**20KC14**
Accessory									
Stainless Steel Wall Mounting Bracket, For Use With 3WB73-74									**3XY63**

Cold Water Pressure Washers, Electric Motor

Dayton

- Solid ceramic pistons
- Direct-drive crankshaft pump

Feature totally-enclosed fan-cooled motors and carry-style models also have thermal overload protection. All come with a 35-ft. power cord with GFCI and thermal relief valves. Built-in low pressure detergent injector eliminates scrubbing by hand. No. 486Z73 includes variable high/low pressure nozzle with an adjustable spray pattern, 25-ft. high pressure hose, trigger gun, and 2-pc., 36" lance. Nos. 486Z74 and 486Z75 include high/low pressure nozzle, high-pressure, quick-connect hose, and trigger gun with safety lock. CSA Certified.


No. 486Z73
No. 486Z74

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Light Duty, Cart Style								
1.5	1400 psi	1.5 gpm	13.5	5 to 10	5-15P	⅜" x 25 ft.	95 lb.	**486Z73**
Medium Duty, Carry Style								
2.0	1500 psi	2.1 gpm	19	20+	5-20P	⅜" x 25 ft.	55 lb.	**486Z74**
	1500 psi	2.1 gpm	19	20+	5-20P	⅜" x 25 ft.	53 lb.	**486Z75**


No. 486Z83


No. 39W807


No. 52PF29


No. 39W803

Mi-T-M
Performance Under Pressure.

Dayton

Cold Water Pressure Washers, Electric Motor

- Solid ceramic pistons
- Crankshaft pumps

These washers generate fluid pressure with a lightweight electric motor that provides cleaner and quieter operation than gas-powered engines. They remove mud, dirt, and debris and more from a variety of surfaces. All except Nos. 486Z79 and 52PF29 feature a built-in chemical detergent injector to apply cleaning agents and eliminate the need to scrub by hand. Available in cart-style and carry-style. Carry-style washers are lightweight and portable and can be used just about anywhere. CSA Certified.

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Brand	Item No.
Light Duty, Cart Style									
2.0	1500 psi	2.0 gpm	17	10 to 20	5-20P	3/8" x 50 ft.	90 lb.	Mi-T-M	**39W806**
	1500 psi	2.0 gpm	17	10 to 20	5-20P	3/8" x 25 ft.	92 lb.	Dayton	**486Z85**
Medium Duty, Cart Style									
1.5	1000 psi	2.0 gpm	15	10 to 20	5-15P	3/8" x 25 ft.	90 lb.	Dayton	**486Z83**
6.0	2500 psi	3.2 gpm	15	10 to 20	L15-20P	3/8" x 50 ft.	225 lb.	Mi-T-M	**39W807**
Heavy Duty, Cart Style									
8.0	3000 psi	3.5 gpm	10	20+	16-20P	3/8" x 50 ft.	301 lb.	Mi-T-M	**486Z79** *
Industrial Duty, Cart Style									
15.0	4000 psi	3.9 gpm	40	40+	15-50P	3/4" x 50 ft.	431 lb.	Mi-T-M	**52PF29** *†
	5000 psi	4.0 gpm	40	20+	15-50P	3/8" x 50 ft.	431 lb.	Mi-T-M	**39W815** *
Light Duty, Carry Style									
1.5	1000 psi	2.0 gpm	12.5	10 to 20	5-15P	3/8" x 25 ft.	58 lb.	Mi-T-M	**39W801**
	1400 psi	1.5 gpm	13.5	5 to 10	5-15P	3/8" x 25 ft.	45 lb.	Dayton	**486Z84**
2.0	1500 psi	2.0 gpm	17	10 to 20	5-20P	3/8" x 25 ft.	70 lb.	Mi-T-M	**39W804**
	1500 psi	2.0 gpm	17	10 to 20	5-20P	3/8" x 25 ft.	76 lb.	Mi-T-M	**39W803**

** Belt-Drive † Triplex plunger pump*


No. 460J90


No. 486Z80

Mi-T-M
Performance Under Pressure.

Cold Water Pressure Washers, Electric Motor

- Solid ceramic pistons
- Direct-drive crankshaft pump
- Wall mount

Feature a built-in chemical detergent injector to apply cleaning agents and eliminate the need to scrub by hand. All models come equipped with a high pressure hose and a quick-connect nozzle. Nos. 460J90, 486Z76, 486Z78, and 486Z77 also include trigger gun. CSA Certified.

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Medium Duty								
1.5	1000 psi	2.0 gpm	13.6	20+	5-15P	3/8" x 50 ft.	90 lb.	**486Z72**
6.0	2000 psi	3.9 gpm	24.1	20+	6-30P	3/8" x 50 ft.	175 lb.	**460J90**
Heavy Duty								
6.0	2000 psi	3.9 gpm	16.4	20+	15-20P	3/8" x 50 ft.	150 lb.	**486Z76**
8.0	3000 psi	3.9 gpm	22.8	20+	15-30P	3/8" x 50 ft.	180 lb.	**486Z78**
	3000 psi	3.9 gpm	34.5	20+	6-50P	3/8" x 50 ft.	195 lb.	**486Z77**
10.0	4000 psi	4.0 gpm	40.8	20+	6-50P	3/8" x 50 ft.	280 lb.	**486Z80**


No. 20KC06


No. 20KC07


No. 20KC10

Dayton

Cold Water Pressure Washers, Portable Gas Engine

- Honda engine
- Recoil start
- Aluminum frame
- Cart style

Portable units are easy to maneuver and transport to exactly where you need it. Include gun, wand, and hose.

HP	Engine Size	Operating Pressure	Flow Rate	Usable Hours per Week	Pump Drive	Hose Dim.	Net Wt.	Item No.
Heavy Duty								
6.0	187cc	2800 psi	2.4 gpm	0 to 10	Direct	3/8" x 25 ft.	75 lb.	**20KC06**
6.5	196cc	3200 psi	2.4 gpm	10 to 20	Direct	3/8" x 25 ft.	85 lb.	**20KC07**
Industrial Duty								
9.0	270cc	3600 psi	2.8 gpm	10 to 20	Direct	3/8" x 50 ft.	130 lb.	**20KC08**
13.0	389cc	3800 psi	3.7 gpm	20+	Belt	3/8" x 50 ft.	150 lb.	**20KC10**
		4200 psi	3.4 gpm	10 to 20	Direct	3/8" x 50 ft.	142 lb.	**20KC09**
		4200 psi	3.4 gpm	20+	Belt	3/8" x 50 ft.	150 lb.	**20KC11**



No. 33M597



No. 33M599



No. 33M601

DEWALT

Cold Water Pressure Washers, Portable Gas Engine

- 20+ usable hours per week
- Honda GX Commercial Series engine with Oil Alert®
- CAT industrial triplex pump with ceramic pistons and adjustable unloader
- Premium pneumatic tires with steel hubs

Include heavy-gauge steel frame, steel-braided high pressure hose, professional spray gun, and steel quick-connect spray wand. Feature 5 quick-connect spray nozzles: 0°, 15°, 25°, 40°, and soap. Direct-Drive models are equipped with secondary handle with instruction panel.

Engine Size	Operating Pressure	Flow Rate	Hose Dim.	Net Wt.	Item No.
Direct-Drive					
196cc	3200 psi	2.8 gpm	5/16" x 25 ft.	82 lb.	**33M597**
270cc	3800 psi	3.5 gpm	3/8" x 50 ft.	122 lb.	**33M598**
389cc	4200 psi	4.0 gpm	3/8" x 50 ft.	139 lb.	**33M599**
Belt-Drive					
389cc	4200 psi	4.0 gpm	3/8" x 50 ft.	192 lb.	**33M601**



No. 3WB97


No. 1TDJ3



No. 3WB72



No. 20KC12

Mi-T-M Performance Under Pressure.

ChoreMaster®

Cold Water Pressure Washers, Portable Gas or Diesel Engine

- Downstream, low-pressure chemical injection
- Thermal relief valve
- Solid steel frames

DIRECT-DRIVE

High pressure rating and compact design make these washers great for light- to medium-duty use. Include 36" wand, solid steel axles, and pneumatic tires.

Mi-T-M® Models—Feature low oil shutdown, except No. 3WB97. Quick-connect nozzles: 0°, 15°, 25°, and chemical, except No. 3WB97 has 15°, 25°, and chemical only.

ChoreMaster®—Feature fold-down steel handles and inline water strainer. Quick-connect nozzles: 15°, 25°, and chemical.

BELT-DRIVE

Provide less wear and longer life than direct-drive pumps. Ideal for heavy-duty use. Include external vibration- and heat-reducing bypass system and low-oil motor protection. Include 36" wand and 0°, 15°, 25°, 40°, and chemical quick-connect nozzles. Nos. 6CGP0 and 6CGP1 come with a 48" wand.

23-HP Electric Start—Large fuel tank allows 8-hr. run time. Dry battery included. Has a roll cage frame and lifting hook.

HP	Engine Size	Operating Pressure	Flow Rate	Engine Brand	Usable Hours per Week	Starter Type	Hose Dim.	Net Wt.	Item No.
Mi-T-M® Direct-Drive Gas Engine									
5.0	160cc	2000 psi	2.5 gpm	Honda	0 to 10	Recoil	3/8" x 25 ft.	75 lb.	**3WB97**
6.5	196cc	2400 psi	2.4 gpm	Honda	10 to 20	Recoil	3/8" x 50 ft.	75 lb.	**3WB83**
		3000 psi	2.4 gpm	Honda	10 to 20	Recoil	3/8" x 50 ft.	85 lb.	**5MZU1**
7.0	212cc	3000 psi	2.4 gpm	Mi-T-M	10 to 20	Recoil	3/8" x 25 ft.	85 lb.	**5JKL7**
9.0	277cc	3500 psi	2.8 gpm	Kohler	10 to 20	Recoil	3/8" x 50 ft.	129 lb.	**38C739**
	280cc	3500 psi	2.8 gpm	Mi-T-M	10 to 20	Recoil	3/8" x 50 ft.	142 lb.	**5MZU4**
13.0	389cc	4000 psi	3.5 gpm	Honda	10 to 20	Recoil	3/8" x 50 ft.	142 lb.	**5MZU3**
13.5	420cc	4000 psi	3.4 gpm	Mi-T-M	10 to 20	Recoil	3/8" x 50 ft.	142 lb.	**5MZU5**
ChoreMaster® Direct-Drive Gas Engine									
6.0	187cc	2700 psi	2.3 gpm	Honda	0 to 10	Recoil	3/8" x 25 ft.	75 lb.	**1TDJ3**
Mi-T-M® Belt-Drive Gas Engine									
13.0	389cc	3000 psi	3.5 gpm	Honda	20+	Recoil	3/8" x 50 ft.	216 lb.	**3WB72**
23.0	688cc	5000 psi	4.0 gpm	Honda	20+	Electric	3/8" x 50 ft.	378 lb.	**6CGP0**
		6000 psi	3.7 gpm	Honda	20+	Electric	3/8" x 50 ft.	401 lb.	**6CGP1**
Mi-T-M® Belt-Drive Diesel Engine									
9.8	—	3000 psi	3.9 gpm	Kohler	20+	Electric	3/8" x 50 ft.	245 lb.	**20KC12**



Mi-T-M
Performance Under Pressure.

Cold Water Pressure Washer, Gas Engine

- Axial pump
- Built-in detergent injector system

Light-duty, direct-drive pump with thermal relief valve, in-line water strainer, and stainless steel pistons. Includes 3 quick-connect nozzles, hose, trigger gun, and lance.

Engine Size	Operating Pressure	Flow Rate	Hose Dim.	Usable Hours per Week	Net Wt.	Item No.
212cc	3000 psi	2.4 gpm	⅜" x 25 ft.	5 to 10	85 lb.	**486Z81**



Diesel or Kerosene, 8 HP Nos. 1RM77 or 2GXL1



No. 48UH46

Mi-T-M
Performance Under Pressure.

Hot Water Pressure Washers, Electric Motor

- Crankshaft pump
- Solid ceramic pistons
- High-pressure chemical injection
- Output water temp.: 190° to 200°F (pressure washers); 250° to 300°F (steam cleaners)

Mounted on sturdy rolling frames with tubed pneumatic tires and solid steel axles. Feature enclosed fan-cooled industrial motors. Thermal relief valve helps prevent pump damage and an easy-access coil drain helps prevents freezing. Include ⅜" x 50-ft. hoses, 36" wand with 15° and chemical quick-connect nozzles, and 35-ft. electrical cord with GFCI, except Nos.48UH46 and 48UH47.

DIESEL OR KEROSENE

Top-fired oil burner enhances fuel efficiency and servicing. Burn #1 or #2 diesel fuel or kerosene. Solid state electronic ignition. Heavy-duty frame, roll cage, and lifting hook. No. 3WB94 and 2GXK5 include 0°, 15°, 25°, 40°, and chemical quick-connect nozzles.

ELECTRIC BURNER

Eliminates exhaust fumes for interior cleaning applications. Heat exchanger cartridges provide consistent on-demand hot water.

Note: Additional models are available on Grainger.com®

HP	Operating Pressure	Flow Rate	Volts/Phase	Amps AC	Plug Type	Usable Hours per Week	Pump Drive	Net Wt.	PRESSURE WASHERS Item No.	COMBINATION STEAM CLEANERS Item No.
Diesel or Kerosene Burner Fuel										
2.0	1500 psi	2.0 gpm	120/1	20	5-20P	10 to 20	Direct	250 lb.	**3WB94**	**2GXK5**
8.0	3000 psi	3.5 gpm	230/1	36	6-50P	20+	Belt	607 lb.	**1RM77**	**2GXK9**
8.0	3000 psi	3.5 gpm	230/Fase 3	24	L15-30P	20+	Belt	602 lb.	—	**2GXL1**
Electric Burner										
6.0	2500 psi	2.8 gpm	460/3	66	—	20+	Belt	725 lb.	**48UH46**	—
8.0	3000 psi	3.9 gpm	460/3	98	—	20+	Belt	725 lb.	**48UH47**	—



No. 3WB82



No. 1TDK1

Mi-T-M
Performance Under Pressure.

Hot Water Pressure Washers, Diesel or Kerosene Engine

- Crankshaft pump
- Solid ceramic pistons
- Low-pressure chemical injector
- Thermal relief valve

Electro Magnetic Firing (EMF) system requires no battery, generator, motor, or transformer. Top-fired burner assembly. Units burn #1 or #2 diesel fuel or kerosene. Include pneumatic tires and solid steel axles. Feature easy-access coil drain and overpressure protection. Dual 36" wand with fixed chemical nozzle and 0°, 15°, 25°, and 40° quick-connect nozzles. Electric start models include dry battery. Wrapped frame with lifting hook. Hood cover tilts for easy burner access. Skid-mount is heavy-duty powder-coated steel square tube frame. ½" schedule 80-coil with stainless steel wrap heat exchanger. Polyethylene burner and engine fuel tanks. Temperature rise is 150°F/66°C above ambient; max. outlet temperature is 200°F. Quick-connect nozzles: 0°, 15°, 25°, and 40°, 10-gal. fuel tank capacity. Oversized crankshaft pump with upgraded bearings.

Note: Additional kerosene pressure washer models are available on Grainger.com®

HP	Engine Size	Operating Pressure	Flow Rate	Engine Brand	Starter Type	Water Output Temp.	Hose Dim.	Net Wt.	Item No.
Diesel or Kerosene, 20+ Usable Hours Per Week									
6.5	196cc	2400 psi	2.6 gpm	Honda	Recoil	200°F	⅜" x 50 ft.	269 lb.	**3WE17**
9.0	270cc	3000 psi	2.8 gpm	Honda	Recoil	200°F	⅜" x 50 ft.	407 lb.	**3WB80**
13.0	389cc	3000 psi	3.5 gpm	Honda	Electric	200°F	⅜" x 50 ft.	428 lb.	**3WB81**
		3500 psi	3.3 gpm	Honda	Electric	200°F	⅜" x 50 ft.	428 lb.	**3WB82**
Diesel or Kerosene, Skid-Mount, 20+ Usable Hours Per Week									
20.0	688cc	4000 psi	4.0 gpm	Honda	Electric	200°F	⅜" x 50 ft.	750 lb.	**1TDK1**

GA GRAINGER APPROVED

Spray Guns

- Automatic trigger shutoff and trigger lock
- Stainless steel and brass internals
- Buna-N and PTFE seals
- See Grainger.com® for additional models

Weep-Style Spray Gun No. 1MDJ7 is designed to leak to protect from freezing; suited for owner-operated and self-service car washes.



No. 52DC83



No. 52DC82



No. 1MDJ7



No. 5JKN0

Description	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Outlet	Item No.
Spray Guns	5075 psi	10.6 gpm	320°F	⅜" FNPT	¼" FNPT	**1MDC8**
	4000 psi	7.0 gpm	320°F	⅜" FNPT	¼" FNPT	**52DC83**
	4500 psi	8.0 gpm	320°F	⅜" FNPT	¼" FNPT	**52DC82**
Spray Gun with 14" Extension	4500 psi	8.0 gpm	320°F	⅜" FNPT	22mm	**52DC84**
Weep-Style Spray Gun	4500 psi	10.6 gpm	320°F	⅜" FNPT	¼" FNPT	**1MDJ7**
High Pressure Spray Gun	5075 psi	12 gpm	320°F	⅜" FNPT	¼" FNPT	**16X048**
Heavy Duty Spray Gun	8700 psi	21 gpm	300°F	⅜" FNPT	¼" FNPT	**5JKN0**



No. 1MDD1



No. 1MDD5



No. 1MDD6



No. 5ELY9

GA GRAINGER APPROVED



No. 1MDE2

Insulated Extension and Pivot Nozzle Wands

- Zinc-plated steel tubes
- ¼" tube diameter, except on No. 1MDD8, which has ⅛"-diameter tubes
- Max. fluid temp.: 300°F
- See Grainger.com® for additional models

Molded plastic grips provide comfortable hand positioning to reduce user fatigue. Deluxe Dual Wand No. 1MDD6, features stainless steel tubes and includes a ¼" female quick-connect nozzle coupler and soap tip. No. 1MDE2 has a ¼" quick-connect discharge port.

Description	Length	Max. Pressure	Max. Flow	Inlet	Outlet	Item No.	
Molded Grip Wands	24"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD1**	
	36"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD2**	
	48"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD3**	
	59"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD7**	
Vented Grip Wands	36"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD4**	
	48"	5000 psi	10.5 gpm	¼" MNPT	¼" MNPT	**1MDD5**	
Dual Wand	36"	3650 psi	10.5 gpm	¼" MNPT	¼" FNPT	**1MDD8**	
Deluxe Dual Wand	40"	4000 psi	11.0 gpm	¼" MNPT	¼" Q.C.	**1MDD6**	*
90° Pivot Nozzle Wands, Chrome Plated	28"	3200 psi	8.0 gpm	22mm MNPT	¼" Q.C.	**5ELY7**	
	40"	4000 psi	10.0 gpm	¼" MNPT	¼" Q.C.	**5ELY8**	
90° Pivot Nozzle Wand, Stainless Steel	40"	4000 psi	10.0 gpm	¼" MNPT	¼" Q.C.	**5ELY9**	
Handle Grip Stainless Steel Extension Wand	48"	6000 psi	6.0 gpm	¼" MNPT	¼" MNPT	**5JKN3**	
Wand Extension	24"	5000 psi	10.5 gpm	22mmMNPT	¼" FNPT	**1MDE2**	*

**** ¼" Quick-Connect discharge port.***

GA GRAINGER APPROVED

Gun/Wand/Hose Kits

CONSUMER GRADE KIT

Includes spray gun, 18" wand, adjustable nozzle, and ¼" x 25-ft. hose.

PROFESSIONAL GRADE KIT

Includes spray gun, 24" wand with ¼" quick connect, and ⅜" x 50-ft. hose.

UNIVERSAL KIT

Includes spray gun, lance with adjustable spray pattern head, lance with turbo nozzle, 25-ft. hose, foamer bottle, and adapter.



No. 1MDK3



No. 1MDK2

Description	L	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Item No.
Consumer Kit	30"	3000 psi	5.5 gpm	140°F	22mm MNPT	**1MDK3**
Professional Kit	42"	4000 psi	10.0 gpm	250°F	⅜" FNPT	**1MDK2**
Universal Kit	11"	2320 psi	3 gpm	140°F	22mm	**20JZ20**







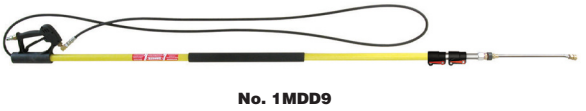

No. 1MDG6 | No. 1MDG7 | No. 5JKN7 | No. 1MDG9 | No. 1MDL1 | No. 1MDL6

GA GRAINGER APPROVED

Quick-Connect Couplers and Plugs

Change sprayer nozzles without using tools. Quick-Connect Coupler Nos. 1MDG6 and 1MDG7 feature Viton O-rings. Brass/stainless steel, galvanized steel, and brass models have a max. pressure of 4000 psi. Stainless steel have a 6000 psi max. pressure. All have a max. temp.: 300°F.

Description	Material	Inlet	Outlet	Item No.
Quick Connect Couplers/Plugs				
Coupler	Brass/Stainless Steel	¼" (F)NPT	¼" (F) QC	**1MDG6**
		⅜" (F)NPT	⅜" (F) QC	**1MDG7**
	Stainless Steel	¼" (F)NPT	¼" (F) QC	**5JKN6**
		¼" (F)NPT	¼" (M) QC	**35Z909**
		¼" (M)NPT	¼" (F) QC	**35Z907**
		¼" (M)NPT	¼" (M) QC	**35Z908**
		⅜" (F)NPT	⅜" (F) QC	**5JKN7**
		⅜" (M)NPT	⅜" (F) QC	**5JKN8**
Plug	Galvanized Steel	¼" (M)NPT	¼" (M) QC	**1MDG8**
		⅜" (F)NPT	⅜" (M) QC	**1MDH1**
		⅜" (M)NPT	⅜" (M) QC	**1MDG9**
	Stainless Steel	⅜" (F)NPT	⅜" (M) QC	**5JKN5**
		⅜" (M)NPT	⅜" (M) QC	**5JKN4**
Ball Quick Coupler, ⅜" (M)NPT, 4000 psi				**20JZ19**
Threaded Connect Couplers/Plugs				
Coupler	Brass	¼" (F)NPT	22mm x 1.5 (F) QC	**1MDL1**
		¼" (M)NPT	22mm x 1.5 (F) QC	**1MDL2**
		⅜" (F)NPT	22mm x 1.5 (F) QC	**1MDL4**
		⅜" (M)NPT	22mm x 1.5 (F) QC	**1MDL3**
		¼" (F)NPT	22mm x 1.5 (M) QC	**1MDL5**
Plug		¼" (M)NPT	22mm	**1MDL6**
		⅜" (F)NPT	22mm x 1.5 (M) QC	**1MDL7**
		⅜" (M)NPT	22mm x 1.5 (M) QC	**1MDL8**



No. 1MDD9



No. 1MDH8

Telescoping Wands

GA GRAINGER APPROVED

- Feature internal high-pressure hoses
- Pole tips fit standard quick-connect nozzles

Feature removable angled spray head. Compatible with quick-connect-style nozzles. Ideal as an accessory for pressure washers, for cleaning home siding, industrial buildings, and trailers. Twist collar to extend and retract the wand.

WAND SUPPORT BELT

- Nylon belt with adjustable hook-and-loop closure
- Supports 18- and 24-ft. telescoping wands

Wand clamps to the belt for greater support and comfort during long cleaning jobs.

Length	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Outlet*	Item No.
Fiberglass Poles						
18 ft.	4000 psi	8.0 gpm	200°F	⅜" (M) Q.C.	¼" Q.C.	**1MDD9**
24 ft.	4000 psi	8.0 gpm	200°F	⅜" (M) Q.C.	¼" Q.C.	**1MDH7**
Wand Support Belt						
33 to 55" Waist Size, Black						**1MDH8**

** Q.C. = Quick-Connect.*



No. 1MDJ4 | No. 1MDJ5

Sandblast Kits

GA GRAINGER APPROVED

BRASS KIT

Includes nozzle, 10-ft. sand hose, 2 clamps, and sand probe.

STAINLESS STEEL KIT WITH FAN SPRAY

Includes 4 different-sized nozzles, 25-ft. sand hose, 2 clamps, and sand probe.

Description	Max. Pressure	Max. Flow	Inlet	Item No.
Brass Kit	3650 psi	5.5 gpm	¼" NPT	**1MDJ4**
Stainless Steel Kit with Fan Spray	7250 psi	7.6 gpm	¼" NPT	**1MDJ5**



Adjustable Pressure Regulator

SIMPSON

Can be used with a universal gas pressure washer to convert it into a variable pressure washer. Pressure can be adjusted right from the wand; from 1000 psi to a max. of 4500 psi (dependent upon the machine being used).

Max. Flow	Max. Pressure	Max. Fluid Temp.	Inlet	Item No.
4.0 gpm	4500 psi	140°F	M22	**34FW17**



No. 1MDF6



No. 1MDH2

Spray Nozzles

GA GRAINGER APPROVED

- Max. pressure: 5000 psi
- Max. fluid temperature: 200°F

1-pc., hardened stainless steel is resistant to most chemicals.

¼" MALE QUICK-CONNECT NOZZLES

Package includes 1 each of these high-pressure nozzles with color-coded plastic caps: 0° (red), 15° (yellow), 25° (green), 40° (white), and black soap nozzle.

¼" MALE NPT NOZZLES

Package includes 5 identical 15° nozzles.

Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	5000	¼" MALE QUICK CONNECT Item No.	¼" MALE NPT Item No.
3	1.34	1.50	1.84	2.12	2.37	2.60	2.81	3.00	3.35	**1MDF6**	—
3.5	1.57	1.75	2.14	2.47	2.77	3.03	3.27	3.50	3.91	**1MDF7**	**1MDH2**
4	1.79	2.00	2.45	2.83	3.16	3.46	3.74	4.00	4.47	**1MDE9**	**1MDF8**
4.5	2.01	2.25	2.76	3.18	3.56	3.90	4.21	4.50	5.03	**1MDF1**	**1MDF9**
5	2.24	2.50	3.06	3.54	3.95	4.33	4.68	5.00	5.59	**1MDF2**	**1MDG1**
5.5	2.46	2.75	3.37	3.89	4.35	4.76	5.14	5.50	6.15	**1MDF3**	**1MDG2**
6.5	2.91	3.25	3.98	4.60	5.14	5.63	6.08	6.50	7.27	**1MDF4**	**1MDG3**
8	3.58	4.00	4.90	5.66	6.32	6.93	7.48	8.00	8.94	**1MDF5**	**1MDG5**
15	6.71	7.5	9.19	10.61	11.86	12.99	14.03	15.0	16.77	**1MDH5**	**1MDH3**
20	8.94	10.0	12.25	14.14	15.81	17.32	18.71	20.0	22.36	**1MDH6**	**1MDH4**

Max. Pressure	Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	5000	Item No.
GA Turbo Rotary Spray Nozzles											
3625 psi	4	1.79	2.02	2.52	2.93	3.3	3.59	3.89	—	—	1MDE3
	5.5 to 6	2.46	2.77	3.48	4.1	4.56	5.04	5.44	—	—	1MDE4
	7 to 7.5	3.13	3.55	4.4	5.14	5.75	6.3	6.83	—	—	1MDE5
4000 psi	2.7	1.20	1.30	1.60	1.90	2.10	2.30	2.50	2.70	—	20JZ21
	3.3	1.50	1.60	2.00	2.30	2.50	2.80	3.00	3.30	—	20JZ22
	3.9	1.80	1.90	2.40	2.70	3.00	3.30	3.60	3.90	—	20JZ23
5075 psi	4	1.79	2.02	2.52	2.93	3.3	3.59	3.89	4.17	4.39	1MDE6
	5.5	2.46	2.77	3.48	4.1	4.56	5.04	5.44	5.84	6.17	1MDE7
	7	3.13	3.19	4.03	4.7	5.3	5.86	6.31	6.8	7.18	1MDE8
AR Turbo Rotary Spray Nozzles											
5800 psi	10	4.4	5.0	6.1	7.0	7.9	8.6	9.3	10.0	11.1	35HX58
	12	5.3	6.0	7.3	8.4	9.4	10.3	11.2	12.0	13.4	35HX59
GA Turbo Rotary Spray Nozzle											
6000 psi	3.5	4	4	4	4	4	4	4	4	4	5JKN1

Description	Max. Pressure	Max. Flow	Material	Item No.
GA Specialty Nozzles				
Change Over Nozzle	2900 psi	8.0 gpm	Nickel-Plated Brass	1MDJ3
Long Range Fan and Soap Spray Nozzle	4000 psi	—	Brass/Plastic	5RCC4

Max. Pressure	Inlet	Material	Item No.
GA Turbo Nozzle Inlet Filters			
5000 psi	¼" (F)NPT	Brass/Stainless Steel	1MDK6
5000 psi	¼ Quick-Connect Plug	Brass/Stainless Steel	1MDK7

Inlet	Max. Pressure	Max. Flow	Material	Item No.
AR Pressure Switches				
¼" NPT	4060 psi	—	Plastic, Brass, Stainless Steel	35HX51
⅜" NPT	4060 psi	—	Plastic, Brass, Stainless Steel	35HX52
AR Flow Switches				
⅜" NPT	5660 psi	8 gpm	Plastic, Brass, Steel	35HX53
⅜" NPT	5660 psi	8 gpm	Plastic, Brass, Steel	35HX54
AR Swivels				
⅜" NPT	4060	12 gpm	Stainless Steel	35HX55
⅜" NPT	4500 psi	8 gpm	Stainless Steel	35HX56
⅜" NPT	4500 psi	8 gpm	Brass	35HX57


No. 1MDE4


No. 5RCC4


No. 1MDK7

Nozzles and Filters

GA GRAINGER APPROVED

TURBO ROTARY SPRAY NOZZLES

Improve washer's efficiency and provide the blasting power of a 0° nozzle over a wide 20° cleaning stream area. Solid brass body with ceramic orifice. Rubber housing protects against impact. Max. fluid temp. is 195°F (200°F for Nos. 35XH58 and 35XH59). ¼" (F) NPT inlet.

Note: The operation of the turbo nozzle may cause damage to the surface being sprayed. Test on a small area before using on intended application.

SPECIALTY NOZZLES

No physical nozzle change necessary between high pressure and soap nozzles. Max. fluid temp. is 300°F; inlet and outlet ports are ¼" (F). No. 5RCC4 Long-Range Soap Nozzle quick connects to pressure washer wand and projects chemicals 15 to 20 ft. Adjusts from fan spray to stream. No assembly required.

TURBO NOZZLE INLET FILTERS

Filters prevent turbo nozzles from clogging by trapping fine debris particles. Install easily between the end of the lance and turbo nozzle. Max. flow is 8 gpm; max. fluid temp. is 200°F. No. 5JKN1 is for use with No. 5JKN3, see page 1591, and includes filler and quick connect.

Sewer Cleaning Pressure Washer Accessories

GA GRAINGER APPROVED

Use to convert pressure washers to jetting machines, or to clean sewer drain lines.

SEWER AND ROTATING NOZZLES

Stainless steel, bull-nose nozzle slides easily into drain pipes and sewer lines to flush debris or clear frozen pipes while attached to sewer hose.

SEWER HOSE

Flexible hose for use with sewer nozzles. Max. temp.: 160°F.

FOOT-ACTUATED VALVES

Foot-controlled valves allow both hands to be free to control the sewer hose. ¼" FNPT outlet.

PUMP DISABLER VALVES

Jetter valves convert standard triplex plunger pumps into sewer cleaning pumps. Disabler pulse valves have adjustable levers to change pump to either configuration by turning the handle on the valve.


No. 3ANT9


No. 3ANU8


No. 3ANV6


No. 3ANV4


No. 3ANW1

Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	Item No.
¼" (F) Inlet Port Sewer Nozzles									
4.5	2.01	2.25	2.76	3.18	3.56	3.9	4.21	4.5	3ANT9
5.5	2.46	2.75	3.37	3.89	4.35	4.76	5.14	5.5	3ANU1
6.5	2.91	3.25	3.98	4.6	5.14	5.63	6.08	6.5	3ANU2
⅜" (F) Inlet Port Sewer Nozzles									
4	1.79	2	2.45	2.83	3.16	3.46	3.74	4	3ANU3
5.5	2.46	2.75	3.37	3.89	4.35	4.76	5.14	5.5	3ANU4
6.5	2.91	3.25	3.98	4.6	5.14	5.63	6.08	6.5	3ANU5
8.5	3.8	4.25	5.21	6.01	6.72	7.36	7.95	8.5	3ANU6
12	5.37	6.0	7.35	8.49	9.49	10.39	11.22	12.0	3ANU7
¼" (F) Inlet Port Rotating Sewer Nozzles									
4.5	2.01	2.25	2.76	3.18	3.56	3.9	4.21	4.5	3ANU8
6	2.68	3.0	3.67	4.24	4.74	5.2	5.61	6.0	3ANU9
⅜" (F) Inlet Port Rotating Sewer Nozzles									
4.5	2.01	2.25	2.76	3.18	3.56	3.9	4.21	4.5	3ANV1
5	2.24	2.5	3.06	3.54	3.95	4.33	4.68	5.0	3ANV2
8.5	3.8	4.25	5.21	6.01	6.72	7.36	7.95	8.5	3ANV3

Inside Dia.	Max. Pressure	Hose L	Item No.
Sewer Hose			
¼"	4400 psi	50 ft.	3ANV6
¼"	4400 psi	100 ft.	3ANV7
⅜"	4000 psi	100 ft.	3ANV8
⅜"	4000 psi	200 ft.	3ANV9

Max. Pressure	Max. Flow	Max. Fluid Temp.	Item No.
Foot-Actuated Sewer Valves			
3000 psi	8.00 gpm	320°F	3ANV4
5000 psi	12.00 gpm	300°F	3ANV5

Max. Pressure	Dim.	For Use With	Item No.
Pump Disabler Valves			
3000 psi	1¼" W x 3¼" L	Mfr No. GC-2503-0ME1, GC-3004-0ME1, GC-3003-0MHB, GC-3003-0MRB, GH-2403-0GAH, Annovi Reverberi XT, XM Series Pumps	3ANW1
4000 psi	1¼" W x 3¼" L	Mfr No. GH-3004-0EGH, Annovi Reverberi RK Series Pumps	3ANW2
4000 psi	1½" W x 3¾" L	Annovi Reverberi XW Series Pumps	3ANW3

NORTH AMERICA First Choice When Quality Matters | Mi-T-M Performance Under Pressure. | ★Dayton

High-Speed Rotary Surface Cleaners

Suited for decks, patios, sidewalks, driveways, pool decks, and parking lots. No. 3WB98 includes trigger gun with (2) 4½" nozzles and pneumatic tires. Nos. 36RM51 and 36RM52 include pressure washer with Honda® engine for increased versatility.

Cleaning Path	Max. Pressure	Flow Rate	Housing Material	Brand	Item No.
Cleaners					
14"	4000 psi	3 to 8 gpm	Polypropylene	AR North America	45NA06
28"	4000 psi	3 to 10 gpm	Aluminum	Mi-T-M	3WB98
Cleaners w/ Pressure Washer					
20"	2500 psi	3.5 gpm	Polypropylene	Dayton	36RM51
24"	4000 psi	4 gpm	Stainless Steel	Dayton	36RM52


No. 3WB98


No. 36RM51


No. 1MDJ8


No. 3ANW4

Pressure Washer Chemicals

GA GRAINGER APPROVED

simple green

Designed for use in all types of pressure washers.

Description	Size	Brand	Item No.
Crankcase Oil, SAE Grade 30	16 oz.	GA	1MDJ8
Simple Green® Deck and Fence Cleaner Concentrate	1 gal.	Simple Green	3ANW4
Simple Green® House and Siding Cleaner Concentrate	1 gal.	Simple Green	3ANW5
Simple Green® Concrete and Driveway Cleaner Concentrate	1 gal.	Simple Green	3ANW6
Simple Green® Heavy-Duty Cleaner and Degreaser Concentrate	1 gal.	Simple Green	3ANW7


No. 1MDK1


No. 3WE19

Pressure Washer Hose Reels

GA GRAINGER APPROVED

Jumper hose connects to outlet of machine, and universal mounting bracket fits most brands of hot water pressure washers. No. 1MDK1 features a bolt-on design.

Max. Pressure	Hose Cap.	Dim. L	Dim. W	Dim. H	Item No.
3000 psi	100 ft.	13½"	18"	17"	1MDK1
5000 psi	150 ft.	32"	17½"	20"	3WE19
5000 psi	250 ft.	18"	18"	18"	5RCC7


No. 1MDK4

Description	W	Max. Pressure	Item No.
3-Nozzle	12"	4000 psi	1MDK4
4-Nozzle	16"	4000 psi	1MDK5

GA GRAINGER APPROVED

Water Brooms

Rust-resistant brooms provide a wide cleaning path for fast and easy cleaning. Units hook up to pressure washer spray gun lance with a standard ¼" quick disconnect plug.


No. 45TP60

Pressure Washer Pump Savers

BRIGGS & STRATTON

Unique anti-freeze and lubricant formula. Protect pistons and seals from damage during storage. For use before extended storage and before startup the next season.

Size	Max. Pressure	Max. Fluid Temp.	Inlet	Item No.
4 oz.	0.10 psi	122°F	⅜" NPT	45TP60
10 oz.				45TP61


No. 22KD99


No. 22KE01


No. 1ZLT8

SPEEDAIRE

GA GRAINGER APPROVED

Pressure Washer Hoses

Speedaire®—2600 psi models have a textile braid reinforcement, and RMA Class B oil resistance. 3000 to 4500 psi models have a wire braid reinforcement, and RMA Class A oil resistance.

GA, Yellow, Nitrile—Stainless steel wire braid reinforcement for protection against oil and animal fat. RMA Class A oil resistance and 4:1 safety factor.

GA, Blue and Black, Nitrile—1500 psi models have a textile braid reinforcement. 3000 and 4500 psi models have a wire braid reinforcement. Blue hoses are nonmarking and abrasion resistant. RMA Class B oil resistance and 4:1 safety factor.

GA, Food Grade—Single wire braid reinforcement. Resists oil, abrasion, and animal fats. Outside cover has Microban® antimicrobial protection. 4:1 safety factor.

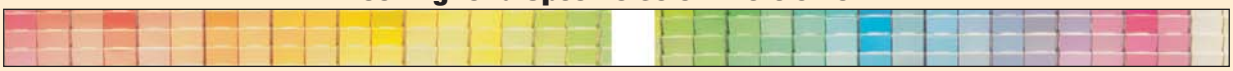
GA, Steam Cleaner/ Pressure Washer—Single wire braid reinforcement. For steam cleaners or combination steam cleaners/pressure washers. Handles hot water up to 250°F at 3000 psi (2500 psi on ½"), or steam up to 325°F at 350 psi. 4:1 safety factor.

Inside Dia.	Hose Length	Max. Working Pressure @ 70°F	Fitting Size*	Max. Temp.	Item No.
Speedaire, Black, PVC					
¼"	25 ft.	2600 psi	M22 Female x M22 Female	140°F	22KD99
	25 ft.	2600 psi	¼" x M22	140°F	22KD97
	25 ft.	2600 psi		140°F	22KD98
Speedaire, Black, Nitrile					
5/16"	25 ft.	3500 psi	M22 Female x M22 Female	250°F	22KE04
	50 ft.	3500 psi		250°F	22KE05
⅜"	30 ft.	3000 psi	⅜" x ⅜"	250°F	22KE01
	50 ft.	3000 psi		250°F	22KE02
	50 ft.	4500 psi		250°F	22KE06
	100 ft.	3000 psi		250°F	22KE03
GA, Yellow, Nitrile					
⅜"	15 ft.	3000 psi	⅜" x ⅜"	250°F	1DKL9
	25 ft.	3000 psi		250°F	1DKN1
	50 ft.	1500 psi		250°F	1DKN4
	50 ft.	3000 psi		250°F	1DKN2
	100 ft.	1500 psi		250°F	1DKN5
½"	50 ft.	3000 psi	½" x ½"	250°F	1DKN3
GA, Blue, Nitrile					
¼"	50 ft.	3000 psi	¼" x ¼"	250°F	3JT38
	100 ft.	3000 psi		250°F	3JT37
⅜"	50 ft.	3000 psi	⅜" x ⅜"	250°F	3JT40
	100 ft.	3000 psi		250°F	3JT39

Inside Dia.	Hose Length	Max. Working Pressure @ 70°F	Fitting Size*	Max. Temp.	Item No.
GA, Black, Nitrile					
¼"	25 ft.	1500 psi	¼" x ¼"	200°F	2P768
	30 ft.	3000 psi		250°F	2P763
⅜"	30 ft.	1500 psi	⅜" x ⅜"	200°F	2P769
	30 ft.	3000 psi		250°F	2P764
	50 ft.	1500 psi		200°F	3JT35
	50 ft.	3000 psi		250°F	2P765
	50 ft.	4500 psi		250°F	3JT42
	100 ft.	3000 psi		250°F	3JT36
	100 ft.	4500 psi		250°F	3JT41
GA, Black, Synthetic Rubber					
⅜"	50 ft.	6000 psi	⅜" x ⅜"	250°F	1ZLH4
	100 ft.	6000 psi		250°F	1ZLH5
GA, Bulk Hose without Fittings, Black, Synthetic Rubber					
¼"	500 ft.	3000 psi	No Fittings	250°F	1ZLH6
⅜"	500 ft.	3000 psi		250°F	1ZLH7
½"	500 ft.	3000 psi		250°F	1ZLH8
GA, Food Grade, Yellow					
⅜	50	3000 psi	⅜" (M)NPT x ⅜" (M)NPT S	-20 to 250	1ZLT8
	100	3000 psi		-20 to 250	1ZLT9
GA, Steam Cleaner/Pressure Washer, Black					
⅜"	30 ft.	3000 psi	⅜" x ⅜"	325°F	2P766
	50 ft.	3000 psi		325°F	2P767
	100 ft.	3000 psi		325°F	3JT43
½"	30 ft.	2500 psi	½" x ½"	325°F	4KT64
	50 ft.	2500 psi		325°F	4KT65
	100 ft.	2500 psi		325°F	4KT63

** S=Swivel*

Looking for a Specific Color? Here's How:

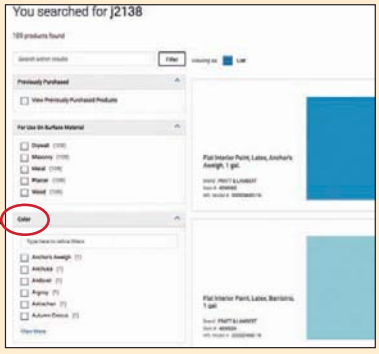


STEP 1
Identify the color type under the "Color Family" column.
Example: Blues.

STEP 2
Decide what size and finish you'll need. Then locate the item number in the table under the finish and "Item No." column. **Example:** No. J2138 – FLAT, 1 gal.

STEP 3
Search for the Item number on Grainger.com®. Once on that page, you will see all of the available colors.

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.
Blues	J2138	J2146
Greens	J2139	J2147
Neutrals	J2140	J2148





Architectural Paint

Accolade® Paint
The finest-quality paint and primer in one is 100% acrylic waterborne and features a low-VOC formula.

Fresh Spec™ Zero VOC Paint
Premium quality, professional low-VOC coating is GREENGUARD GOLD certified. It offers high hide, smooth application, and makes touch ups easy.

Pro-Hide® Gold Ultra Paint
Best professional quality product is ideal for both residential and commercial applications.

Pro-Hide® Silver 5000 Paint
Proven performance for professionals on a budget.

Economy Paint
A quality, general-use paint for high-turnover jobs.

Paint Finish Types

FLAT
Minimally reflective finish free from gloss or sheen. Meant to absorb light in order to hide imperfections.

VELVET
Soft, stain-resistant finish has low light reflectivity. Minimizes imperfections and maintains uniformity.

EGGSHELL
Low luster that noticeably reflects light.

MID-SHEEN
Very versatile with subtle gloss and average light reflectivity. Washable, scrubbable finish is burnish-resistant.

SATIN
Low luster appearance is ideal for higher traffic areas.

SEMI-GLOSS
Moderate glossy finish provides great reflectivity. Shiny finish is washable and scrubbable with excellent stain resistance.

Find more information on Paint selection at grainger.com/interiorpaint

Accolade® Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides excellent coverage and hide. Washable, scrubbable paint applies smoothly with outstanding durability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	VELVET 1 gal. Item No.	VELVET 5 gal. Item No.	SATIN 1 gal. Item No.	SATIN 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Interior Paint								
Blues	J2138	J2146	J2189	J2197	J2154	J2162	J2170	J2181
Greens	J2139	J2147	J2190	J2198	J2155	J2163	J2174	J2182
Neutrals	J2140	J2148	J2191	J2199	J2156	J2164	J2175	J2183
Oranges	J2141	J2149	J2192	J2200	J2157	J2165	J2176	J2184
Purples	J2142	J2150	J2193	J2201	J2158	J2166	J2177	J2185
Reds	J2143	J2151	J2194	J2202	J2159	J2167	J2178	J2186
Whites	J2144	J2152	J2195	J2203	J2160	—	J2179	J2187
Yellows	J2145	J2153	J2196	J2204	J2161	J2169	J2180	J2188

Color Family	EGGSHELL 1 gal. Item No.	EGGSHELL 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Exterior Paint				
Blues	J2106	J2114	J2122	J2130
Greens	J2107	J2115	J2123	J2131
Neutrals	J2108	J2116	J2124	J2132
Oranges	J2109	J2117	J2125	J2133
Purples	J2110	J2118	J2126	J2134
Reds	J2111	J2119	J2127	J2135
Whites	J2112	J2120	J2128	J2136
Yellows	J2113	J2121	J2129	J2137



1-gal.

Color	Size	Item No.
Interior/Exterior Primer		
White	1 gal.	41CP46
White	5 gal.	41CP45

Interior Primer Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq./ft. gal.
- VOC content: 0 g/L

Provides a smooth finish with excellent hide and durability. Mildew-resistant, washable, and scrubable. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color	Size	Item No.
Interior Primer		
White	1 gal.	41CP54
White	5 gal.	41CP53



No. 41CP54

Find more information on Paint selection at grainger.com/interiorpaint



1-gal.

PRATT & LAMBERT PAINTS
Never compromise

Fresh-Spec™ Zero-VOC Paint

- Dry time: 1 hr. to touch, 4 hr. to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Perfect for occupational residential/commercial repaints and new construction. High hide, smooth application and excellent touch ups.

Note: All paint is nonreturnable.

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	EGGSHELL 1 gal. Item No.	EGGSHELL 5 gal. Item No.	SATIN 1 gal. Item No.	SATIN 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Interior Paint								
Beiges	J6599	J6600	J6601	J6602	J6603	J6604	J6605	J6606
Blacks	J6607	—	J6608	—	J6609	—	J6610	—
Blues	J6611	J6612	J6613	J6614	J6615	J6616	J6617	J6618
Browns	J6619	J6620	J6621	J6622	J6623	J6624	J6625	J6626
Golds	J6627	J6628	J6629	J6630	J6631	J6632	J6633	J6634
Grays	J6635	J6636	J6637	J6638	J6639	J6640	J6641	J6642
Greens	J6643	J6644	J6645	J6646	J6647	J6648	J6649	J6650
Neutrals	J6651	J6652	J6653	J6654	J6655	J6656	J6657	J6658
Oranges	J6659	J6660	J6661	J6662	J6663	J6664	J6665	J6666
Pinks	J6667	J6668	J6669	J6670	J6671	J6672	J6673	J6674
Purples	J6675	J6676	J6677	J6678	J6679	J6680	J6681	J6682
Reds	J6683	—	J6684	J6685	J6686	J6687	J6688	J6689
Silvers	J6690	J6691	J6692	J6693	J6694	J6695	J6696	J6697
Whites	J6698	J6699	J6700	J6701	J6702	J6703	J6704	J6705
Yellows	J6706	J6707	J6708	J6709	J6710	J6711	J6712	J6713



1-gal.

Pro-Hide® Gold Ultra Paint

PRATT & LAMBERT PAINTS
Never compromise

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides a durable, uniform finish with outstanding hide and excellent touch-up. Offers superior washability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color	1 gal. Item No.	5 gal. Item No.
Interior/Exterior Multipurpose Primers		
White	41CP42	41CP41
Interior/Exterior Primer		
White	41CP44	41CP43
Primers		
White	41CP52	41CP51

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	EGGSHELL 1 gal. Item No.	EGGSHELL 5 gal. Item No.	SATIN 1 gal. Item No.	SATIN 5 gal. Item No.	MID-SHEEN 1 gal. Item No.	MID-SHEEN 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Interior Paint										
Blues	J1793	J1809	J1785	J1801	J2002	J2025	J1821	J1836	J1994	J2017
Greens	J1794	J1810	J1786	J1802	J2003	J2026	J1822	J1837	J1995	J2018
Neutrals	J1795	J1811	J1787	J1803	J2004	J2027	J1823	J1838	J1996	J2019
Oranges	J1796	J1812	J1788	J1804	J2005	J2028	J1824	J1839	J1997	J2020
Purples	J1797	J1813	J1789	J1805	J2006	J2029	J1825	J1840	J1998	J2021
Reds	J1798	J1816	J1790	J1806	J2007	J2030	J1826	J1841	J1999	J2022
Whites	J1799	J1817	J1791	J1807	J2008	J2031	J1827	J1842	J2000	J2023
Yellows	J1800	J1818	J1792	J1808	J2009	J2032	J1828	J1843	J2001	J2024

Color Family	FLAT 1 gal.	FLAT 5 gal.	EGGSHELL 1 gal.	EGGSHELL 5 gal.	SEMI-GLOSS 1 gal.	SEMI-GLOSS 5 gal.
Exterior Paint						
Blues	39NK60	39NT09	39PL17	39MF78	39MK78	39MR37
Greens	39NK38	39NP61	39PJ76	39MF67	39MJ36	39MP99
Neutrals	39NJ79	39NT23	39PL14	39MF46	39MK77	39MP66
Oranges	39NM51	39NU57	39PM57	39MG53	39MM39	39MU25
Purples	39NL58	39NU01	39PM12	39MG59	39ML92	39MT82
Reds	39NM03	39NU09	39PM11	39MG61	39ML55	39MT89
Whites	39NJ96	39NR03	39PK16	39PR22	39MJ77	39MP83
Yellows	39NH64	39NN80	39PH82	39MH42	39MH92	39MP08



1-gal.
(Available in 5-gal.)

Pro-Hide® Silver 5000 Paint

PRATT & LAMBERT PAINTS
Never compromise

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Offers good hide characteristics with a smooth and uniform finish. Use on properly prepared drywall plaster, masonry, wood, primed metal, and previously painted surfaces on residential and commercial applications.

Note: All paint is nonreturnable.

Color	1 gal. Item No.	5 gal. Item No.
Interior Primers		
White	41CP50	41CP49
Interior/Exterior Interior High Build Paint		
Off White	—	41CP55

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.
Interior/Exterior Paint			
Blues	J1874	J1890	J1882
Greens	J1875	J1891	J1883
Neutrals	J1876	J1892	J1884
Oranges	J1877	J1893	J1885
Purples	J1878	J1894	J1886
Reds	J1879	J1895	J1887
Whites	J1880	J1896	J1888
Yellows	J1881	J1897	J1889

Color Family	FLAT 5 gal. Item No.
Interior Ceiling Paint	
Blues	J1906
Greens	J1907
Neutrals	J1908
Oranges	J1909
Purples	J1910
Reds	J1911
Whites	J1912
Yellows	J1913

Color Family	EGGSHELL 5 gal. Item No.
Interior High Build Paints	
Blues	J1866
Greens	J1867
Neutrals	J1868
Oranges	J1869
Purples	J1870
Reds	J1871
Whites	J1872
Yellows	J1873

PRATT & LAMBERT PAINTS
Never compromise

Economy Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides average hide and durability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color	1 gal. Item No.	5 gal. Item No.
Interior/Exterior Primer		
White	41CP44	41CP43

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	EGGSHELL 1 gal. Item No.	EGGSHELL 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Interior Paint						
Blues	J2066	J2090	J2058	J2082	J2074	J2098
Greens	J2067	J2091	J2059	J2083	J2075	J2099
Neutrals	J2068	J2092	J2060	J2084	J2076	J2100
Oranges	J2069	J2093	J2061	J2085	J2077	J2101
Purples	J2070	J2094	J2062	J2086	J2078	J2102
Reds	J2071	J2095	J2063	J2087	J2079	J2103
Whites	J2072	J2096	J2064	J2088	J2080	J2104
Yellows	J2073	J2097	J2065	J2089	J2081	J2105

Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.	SEMI-GLOSS 1 gal. Item No.	SEMI-GLOSS 5 gal. Item No.
Exterior Paint				
Whites	40TC74	40TC75	40TC76	40TC77



1-gal.

DAP®

Drywall Repair

Use with gypsum, drywall, nailheads, corner beads, wood, plastic, brick, plaster, metal, stucco, masonry, and concrete.

COMPOUNDS

DryDex® Premium Lightweight Joint Compound—Features dry time indicator. Compound goes on pink, dries white.

Lightweight Wallboard Joint Compound—Ready-mixed lightweight formula.

DAP® FASTPATCH™ 30 Patching Compound Powder—Multipurpose formula resists impacts, shrinking, and cracking. Can be painted without priming.

SPACKLING

DryDex® Spackling—Dry-time indicator goes on pink and dries white.

Vinyl Interior Spackling—Resists cracking and crumbling.

Fast n' Final® Lightweight Spackling - Interior/Exterior—1-step interior/exterior formula requires no sanding. White color. Lightweight.

PATCHING

ElastoPatch® Flexible Patching Compound—Permanently eliminates recurring cracks.

Presto Patch® Ready-Mixed Multi-Purpose Patching Compound—Ready mixed patching compound for filling, leveling, and patching holes.

Wall Repair Patch—Self-adhesive.

All-Purpose Stucco Patch—Blends naturally with existing stucco. Interior and exterior use.

Wood Filler—Fills small holes and cracks in interior and exterior surfaces. Adheres to stucco, plaster, drywall, and wood.

Plaster of Paris—For patching and repairing large holes in interior plaster or wallboard.

Patching Plaster—For major repairs on interior plaster or wallboard surfaces.



No. 10L498

Description	Size	Dry Time	Item No.	
Compounds				
DryDex® Premium Lightweight Joint Compound	1 gal.	Varies	10L498	
Lightweight Wallboard Joint Compound	1 gal.	24 hr.	2GKY6	*
Lightweight Wallboard Joint Compound	3 lb.	24 hr.	2GKY7	*
DAP® FASTPATCH™ 30 Patching Compound Powder	3.5 lb.	Varies	29RU97	
Spackling				
DryDex® Spackling	1 qt.	5 hr.	2GKY9	*
Vinyl Interior Spackling	1 qt.	5 hr.	5E110	
Fast n' Final® Lightweight Spackling - Interior/Exterior	1 qt.	Varies	5E113	
Patching				
ElastoPatch® Smooth Flexible Patching Compound	1 qt.	3 hr.	2GKZ6	*
ElastoPatch® Textured Flexible Patching Compound	1 qt.	3 hr.	2GKZ7	*
Presto Patch® Ready-Mixed Multipurpose Patching Compound	1 gal.	5 hr.	2GLA7	*
Wall Repair Patch, Self Adhesive	6 x 6"	—	2GLA5	
All-Purpose Stucco Patch	1 gal.	36 hr.	2GKZ5	*
Wood Filler	1 qt.	48 hr.	54PC56	
Plaster of Paris	4 lb.	72 hr.	10L526	
Plaster of Paris	8 lb.	72 hr.	10L527	
Patching Plaster	32 oz.	5 hr.	10L528	

** VOC compliant.*



No. J5605

Rust Tough® and Rust Tough® 250 Primer and Paint

- VOC content: < 250 g/L

Corrosion-resistant, direct-to-metal alkyd enamel. Protects against mild chemicals, fumes, oil, and grease stains. Excellent hide, color, and gloss retention. Superior chip, crack, and peel resistance. Rust Tough® 250 performs like a traditional alkyd enamel. For use in moderate to severe industrial environments and is acceptable for use in federally inspected meat and poultry plants.

▶CHOOSE: Color	Finish	Size	Item No.
Rust Tough® Paint			
Black, White, Light Machinery Gray, Safety Orange, Safety Red, Safety Yellow, White Base	Gloss	1 gal.	**J5606**
Rust Tough® 250 Primer			
Gray Primer, Red Oxide Primer	Flat	1 gal.	**J5604**
Rust Tough® 250 Paint			
Black, Dark Machinery Gray, OSHA Equipment Yellow, Light Machinery Gray, OSHA Safety Blue, OSHA Safety Orange, OSHA Safety Red, OSHA Safety Yellow, White	Gloss	1 gal.	**J5605**



No. 52JN60

Dry Fall Paint and Block Filler

- 5-gal.
- White color

Note: All paint is nonreturnable.

Dry Fall Interior Paint—High-solids industrial-grade dry fall with high reflectance properties, producing an intense white finish which promotes a safe work environment. This product is also high hiding and provides a flash-rust resistant coating.

Interior/Exterior Acrylic Block Filler—Use on concrete block and masonry surfaces under latex, oil, or alkyd paints.

VOC Content	Finish	Coverage	Cure Time	Item No.
Interior Water-Based Dry Fall Paint				
Less Than 50g/L	Flat	135 to 225 sq. ft./gal.	4 hr.	**52JN60**
	Semi-Gloss			**52JN61**
Interior Oil-Based Dry Fall Paint				
Less Than 250g/L	Flat	225 to 315 sq. ft./gal.	7 days	**52JN63**
	Semi-Gloss			**52JN64**
Interior/Exterior Acrylic Block Filler				
Less Than 50g/L	Gloss	50 to 88 sq. ft./gal.	—	**52JN59**



Bulls Eye 1-2-3® Water-Based Primer-Sealer Stain-Blocker

- Low odor
- Mold and mildew resistant

Size	VOC Content	Dry Time Recoat	Coverage	Mfr. Model	Item No.
1 gal.	<100	1 hr.	350 to 450 sq. ft./gal.	2001	**4HFD3**



No. J5607

Tough Coat® and Tough Coat® Quik-Dry™ Paint

Multipurpose alkyd gloss enamel designed for new construction and industrial maintenance applications. For interior and exterior applications. Dries fast and allows equipment to be placed back in service quickly. Chip and flake resistant. Tough Coat® Quik-Dry™ is ideal for industrial, OEM and metal fabrication. Air dries within 15 min.

▶CHOOSE: Color	Finish	Size	Item No.
Tough Coat® Paint			
Black, Aluminum, Safety Orange, Safety Red, Safety Yellow, White	Gloss	1 gal.	**J5607**
Safety Yellow	Gloss	5 gal.	**J5607**
Tough Coat® Quik-Dry™ Paint			
Black, International Harvester Red, Machine White, White Base	Flat, High Gloss	1 gal.	**J5608**



No. J5609

Industrial Primer

Heavy-duty primer offers good protection for steel in normal industrial environments. Industrial Primer is for interior and exterior use. Easy to apply by spray. Fast drying. Can be topcoated with alkyd and latex coatings. Weld-Thru Primer is rust inhibitive and designed for shop-priming structural steel. Excellent choice for where harsh environments put heavy performance demands on a shop-applied primer. May be welded through with no effect on the weld's integrity.

▶CHOOSE: Color	Finish	Size	Item No.
Industrial Primer			
Gray, Red	Flat	1 gal.	**J5609**
Weld-Thru Primer			
Black, Gray, Red	Flat	1 gal.	**J1475**



No. 4HFC3

B-I-N® Shellac-Based Primer-Ultimate Stain Blocker

- VOC content: <550 g/L

Nontoxic, hypoallergenic film stops bleeding knots and sap streaks. No sanding required.

Net Weight	Dry Time Recoat	Coverage	Mfr. Model	Item No.
13 oz.	30 min.	10 to 12 sq. ft./gal.	1008	**4HFC5**
10.9 lb	15 to 20 min.	500 sq. ft./gal.	901	**4HFC3**



No. 30RK17



No. 30RK16

RUST-OLEUM INDUSTRIAL BRANDS

Universal Acrylic Primer

- VOC content: <100 g/L
- Dry time: 30 min.

Rust-inhibitive formula can be directly applied to variety of surfaces including steel. This stain blocker resists growth of mold and mildew. Tintable primer has excellent hide and adhesion.

Color	Coverage	Size	Item No.
White	155-520 sq.ft/gal	1 gal.	30RK17
		5 gal.	30RK16



No. 4HFE3



No. 4HFD7

ZINSSER

PERMA-WHITE® Mold & Mildew Proof Latex Acrylic Paint

- Low odor

Self-priming paint forms a washable coating that contains a mildewcide to prevent the growth of mold and mildew on the paint film only. Moisture-and-stain resistant.
No. 4HFD7 is a noncorrosive interior sealer that goes on white and dries clear to form a tough, durable overcoat. Exterior paint have a washable finish that withstands moisture and resists dirt pickup.

DRY TIME AND COVERAGE

	Interior Paint	Exterior Paint	Sealer
VOC Content:	<50g/L	Less Than 150g/L	<100g/L
Dry Time:	2 hr.	30 min.	30 min.
Coverage:	300 to 400 sq. ft./gal.	300 to 400 sq. ft./gal.	300 to 400 sq. ft./gal.

Color	Finish	Size	INTERIOR Item No.	EXTERIOR Item No.
PERMA-WHITE® Paint				
White	Eggshell	1 gal.	4HFE3	—
	Satin	1 gal.	4HFD9	4FZX6
	Satin	5 gal.	—	4FZX7
	Semi-Gloss	1 gal.	4HFE2	4FZX4
	Semi-Gloss	5 gal.	—	4FZX5
PERMA-GUARD™ Sealer				
Clear	—	1 gal.	4HFD7	—



No. 4CY29



No. 4CY28

RUST-OLEUM INDUSTRIAL BRANDS

Sierra Water-Based Acrylic Enamel and Primer

Fast-drying, water-based acrylic system has low solvent odor and 0 VOCs and HAPs content. Provide excellent blocking resistance, is washable, and protects against corrosion. For interior and exterior applications.

Note: All paint is nonreturnable.

DRY TIME AND COVERAGE

	Beyond™ Satin	Beyond™ Gloss	Griptec™
Dry Time:	30 min.	30 min.	30 min.
Coverage:	135 to 490 sq. ft./gal.	165 to 520 sq. ft./gal.	180 to 545 sq. ft./gal.

Color	BEYOND™ SATIN Item No.	BEYOND™ GLOSS Item No.
Sierra Performance™ Finishes (1-gal. Can)		
White Pastel	4CY29	4CY31
White	1TBF5	1TBF4
Black	4CY30	4CY32
Clear	4CY43	4CY44
Navy Gray	—	1TBF6
Safety Blue	—	1TBF7
Safety Red	—	4CY45
Safety Yellow	—	4CY46

Color	Item No.
Sierra Performance™ Griptec™ Primers (1-gal. Can)	
White	4CY28
Gray	21CJ87



No. 4HFF2



No. 30FX99

ZINSSER

Waterproofing Paint

- Low odor
- Interior/exterior

WATERTITE®—Solvent-based paint stops up to 34-lb. of water pressure. Prevents recurring efflorescence. Prevents growth of mold and mildew on paint film.

WATERTITE-LX®—Seals out water and prevents mold and mildew growth on paint film. Smooth, bright white finish. Resists 20-lb. of water pressure. 10-yr. mold and mildew guarantee.

DRY TIME AND COVERAGE

	WATERTITE®	WATERTITE-LX®
VOC Content:	Less Than 400g/L	100g/L
Dry Time:	1 hr.	2 hr.
Coverage:	75 to 100 sq. ft./gal.	100 to 125 sq. ft./gal.

Color	Size	Item No.
WATERTITE®		
Bright White	1 gal.	4HFF2
	3 gal.	4HFF3
WATERTITE-LX®		
White	1 gal.	30FX99
	3 gal.	30FY01
	5 gal.	30FY02



No. H7164

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Speedy-Dry Direct-to-Metal Water-Based Acrylic Enamel

- 3100 system

Fast-dry formula for applications where minimal downtime is critical. Excellent gloss retention and corrosion resistance.

DRY TIME AND COVERAGE	Primer	Paint
Dry Time:	1 to 1½ hr.	1 to 1½ hr.
Coverage:	220 to 380 sq. ft./gal.	200 to 350 sq. ft./gal.
VOC Content:	<250g/L	<250 g/L

▶CHOOSE: Color	▶CHOOSE: Finish	Item No.
Speedy-Dry Primer (1-gal. Can)		
Gray	—	**1D460**
Speedy-Dry Paint (1-gal. Can)		
Alumi-NON®, Black, Safety Blue, Safety Yellow, White	Semi-Gloss, High Gloss	**H7164**
Speedy-Dry Paint (5-gal. Can)		
Safety Yellow	High Gloss	**6DNX3**



No. 1TBF8

RUST-OLEUM INDUSTRIAL BRANDS

Sierra MetalMax® Direct-to-Metal Water-Based Acrylic Enamel

- Low odor
- Voc Content: 0 g/L

Result in a smooth washable finish. Excellent color retention. Ideal for spaces where odor is a concern.

DRY TIME AND COVERAGE	Satin	Semi-Gloss	High Gloss
Dry Time:	30 min.	30 min.	60 min.
Coverage:	137 to 523 sq. ft./gal.	137 to 513 sq. ft./gal.	175 to 545 sq. ft. /gal.

Color	Item No.
Satin	
1-gal. Can	
Black	**34UL42**
Semi-Gloss	
1-gal. Can	
Black	**1TBF1**
Gray	**1TBG2**
Navy Gray	**1TBG1**
Safety Blue	**1TBF9**
Safety Red	**1TBF3**
Safety Yellow	**1TBF2**
White Pastel	**1TBF8**

Color	Item No.
High-Gloss	
1-gal. Can	
Black	**21CK02**
Clear	**21CK04**
Navy Gray	**21CK01**
Safety Blue	**21CJ99**
Safety Red	**21CJ96**
Safety Yellow	**21CJ97**
White	**21CJ94**
5-gal. Pail	
Black	**21CK03**
Safety Yellow	**21CJ98**
White	**21CJ95**



No. J6597

RUST-OLEUM INDUSTRIAL BRANDS

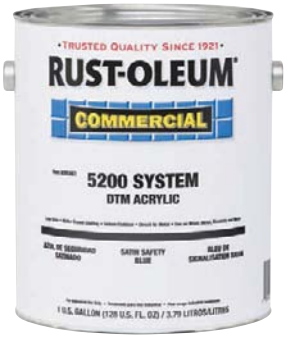
High Performance Direct-to-Metal Acrylic Enamel

- 3800 system
- Gloss finish

Quick dry time formula with a water-based finish for indoor or outdoor. Delivers excellent protection against corrosion. Provides good adhesion, including smooth surfaces and will also protect surfaces exposed to mild or moderate environments.

DRY TIME AND COVERAGE	Paint
Dry Time:	15 min.
Coverage:	150 to 270 sq. ft./gal.
VOC Content:	<250g/L

▶CHOOSE: Color	Size	Item No.
Black, Dunes Tan, Forest Green, Navy Gray, Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Gray, White	1 gal.	**J6597**
	5 gal.	**J6598**



No. H7174

RUST-OLEUM INDUSTRIAL BRANDS

Commercial Direct-to-Metal Water-Based Acrylic Enamel

- 5200 system

Multipurpose coating with minimal odor resists chalking and fading. Durable enough to withstand mild chemical fumes and spills.

▶CHOOSE: Color	▶CHOOSE: Finish	Dry Time	Coverage (sq. ft./gal.)	VOC Content	Item No.
Paint (1-gal. Can)					
Black, Bronzetone, Fire Hydrant Red, Machine Tool Gray, Navy Gray, Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Gray, White	High Gloss, Eggshell, Semi-Gloss, Flat	1 to 2 hr.	150 to 260	< 250 g/L	**H7174**
Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow	Satin	2 to 4 hr.	165 to 260	< 250 g/L	**J5694**
Primer (1-gal. Can)					
Gray, Red	—	1 to 2 hr.	250 to 350	< 100 g/L	**H7176**
Satin Paint (5-gal. Pail)					
Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow	Satin	1 to 2 hr.	582 to 625	< 220 g/L	**J0448**

RUST-OLEUM INDUSTRIAL BRANDS

Rust Reformer® Rust Converter

- 3575 and V2100 systems

Chemically transforms rust on metal surfaces into a tough barrier against further corrosion in 1 step.

DRY TIME AND COVERAGE	3575 System	V2100 System
Dry Time:	20 to 40 min.	1-2 hr.
Coverage:	590 to 1175 sq. ft./gal.	14 sq. ft./gal.
VOC Content:	<45g/L	<60g/L

Description	Color	Size	Item No.
Rust Reformer (3575 System)	Clear	1 gal.	**5W181**
Rust Reformer Aerosol (V2100 System)	Black	15 oz.	**5HE25**



No. 5W181



No. 5HE25

RUST-OLEUM INDUSTRIAL BRANDS

Heavy-Duty High Performance Direct-to-Metal Alkyd Enamel

- 7400 and V7400 systems

Offer excellent 1-coat coverage with durable finishes. Protect against rust, corrosion, chemicals, oil, chipping, cracking, and peeling. Good color and gloss retention.

SURFACES: Metal and steel

DRY TIME AND COVERAGE

	Dry Time	Coverage	VOC Content
7400 System Primer			
Heavy-Duty	5 to 10 hr.	310 to 520 sq. ft./gal.	<338g/L
Quick Dry Red	1 to 2 hr.	290 to 585 sq. ft./gal.	<450g/L
Quick Dry Gray	1-2 hr.	300 to 600 sq. ft./gal.	<450g/L
7400 System Paint			
High Gloss	5 to 9 hr.	230 to 390 sq. ft./gal.	<450g/L
Semi-Gloss	5 to 9 hr.	235 to 410 sq. ft./gal.	<450g/L
Flat	5 to 9 hr.	255 to 435 sq. ft./gal.	<450g/L
Metallic	2 to 4 hr.	200 to 530 sq. ft./gal.	<500g/L
V7400 System Primer			
Fast Recoat	4 to 5 hr.	300 to 550 sq. ft./gal.	<340g/L
V7400 System Paint			
High Gloss	4 to 8 hr.	230 to 450 sq. ft./gal.	<340g/L
Semi-Gloss	4 to 8 hr.	230 to 450 sq. ft./gal.	<340g/L
Flat	4 to 8 hr.	275 to 510 sq. ft./gal.	<340g/L
Metallic	5 to 9 hr.	330 to 530 sq. ft./gal.	<500g/L



No. H7153

▶CHOOSE: Color Family: See Grainger.com® for exact color	7400 SYSTEM Item No.	V7400 SYSTEM Item No.
Primers (1-gal. Cans)		
Heavy-Duty Gray, Heavy-Duty Red	H7156	—
Quick-Dry Red, Quick-Dry Gray	H7155	—
Fast Recoat Gray Primer, Fast Recoat Red Primer, Fast Recoat White Primer	—	H7159
Paint (1-gal. Cans)		
Whites, Blacks, Grays, Blues, Reds, Greens, Browns, Yellows, Oranges	H7153	—
Browns, Aluminum / Metallic, Clears, Reds, Blacks, Whites, Greens, Oranges, Grays, Blues, Yellows	—	H7157
Paint (5-gal. Cans)		
Blues, Browns, Grays, Greens, Whites, Yellows	H7154	—
Reds, Greens, Blacks, Whites, Blues, Grays, Yellows	—	H7158

RUST-OLEUM INDUSTRIAL BRANDS

Commercial Direct-To-Metal Alkyd Enamel

- C740 and CV740 systems

Ready-to-use, high-hide formula is for everyday and provides rust protection. Provide good, fast-drying metal protection against corrosion, chipping, fading, peeling, wear, abrasion, and are easy-to-maintain.

SURFACES: Metal, steel



No. H7178

DRY TIME AND COVERAGE

	C740 Paint	CV740 Primer	CV740 Paint
Dry Time:	8 to 12 hr.	8 to 12 hr.	8 to 12 hr.
Coverage:	265 to 440 sq. ft./gal.	300 to 650 sq. ft.	255 to 435 sq. ft./gal.
VOC Content:	<400g/L	<100g/L	<100g/L

▶CHOOSE: Color	Finish	Item No.
C740 System		
Interior/Exterior Paint (1-gal. Cans)		
Safety Yellow	Gloss	6DNV6
CV740 System		
Primer (1-gal. Cans)		
Red, White	Flat	H7179
Interior/Exterior Paint (1-gal. Cans)		
Silver Gray, Dunes Tan, Safety Blue, Black, Navy Gray, White, Safety Red, Safety Yellow	Gloss	H7178
Black	Flat	H7178

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Direct-to-Metal Alkyd Enamel

- 2500 system

Offer excellent 1-coat coverage with high-gloss finish. Protects against rust, corrosion, mild chemical spills, fumes, oil, and grease.



No. H7160

DRY TIME AND COVERAGE

	Primer	Paint
Dry Time:	5 to 10 hr.	8 to 12 hr.
Coverage:	420 to 870 sq. ft./gal.	335 to 580 sq. ft./gal.
VOC Content:	<250g/L	<250g/L

▶CHOOSE: Color	Item No.
Primer (1-gal. Cans)	
Heavy-Duty Gray	H7161
Paint (1-gal. Cans)	
Dunes Tan, High Gloss White, Safety Orange, Safety Yellow	H7160

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Food and Beverage Alkyd Enamel

- 8400 and V8400 systems

For use where resistance to constant humidity and repeated scrubbing with detergents is desired. Help prevent mold and mildew growth in the dried paint film. Suitable for food processing plants, shower and locker rooms, freshwater and wastewater treatment plants, tanneries, and laundries. Can be applied to surfaces as cold as 18°F.

SURFACES: Metal and wood

DRY TIME AND COVERAGE

	8400 System Primer	8400 System Paint	V8400 System Primer	V8400 System Paint
Dry Time:	4 to 6 hr.	4 to 6 hr.	4 to 5 hr.	4 to 8 hr.
Coverage:	220 to 380 sq. ft./gal.	265 to 575 sq. ft./gal.	330 to 550 sq. ft./gal.	250 to 425 sq. ft./gal.
VOC Content:	201 g/L	<450g/L	<340g/L	<340g/L

Description	Item No.
8400 System Food/Beverage Coating (1-gal. Can)	
White Primer	6A395
High Gloss Dairy White Paint	6A396
V8400 System Food/Beverage Coating (1-gal. Can)	
White Primer	10Z891
High Gloss Dairy White Paint	10Z892
Safety Yellow Paint	40N163



No. 6A396

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Direct-to-Metal Epoxy Mastics

- 9100, V9100, and SC9100 systems

High-solids, self-priming, solvent-based mastics provide max. corrosion protection. Apply directly to metal and tightly adhered rusted metal. Excellent for concrete floors. 2-component system. Available with standard, fast cure, water immersion (recommended for floors), and low-temperature activators.

SURFACES: Concrete, galvanized steel, masonry, and painted, clean, or sound steel



No. 7AJ71

DRY TIME AND COVERAGE

	9100 Standard	V9100 Low VOC Standard	9100 Fast Cure	V9100 Low VOC Fast Cure	9100 Water Immersion	V9100 Low VOC Water Immersion	V9100 Low VOC Low Temperature	SC9100 100 VOC Standard
Dry Time:	6 to 8 hr.	6 to 8 hr.	4 to 8 hr.	4 hr.	6 to 8 hr.	6 to 8 hr.	16 to 20 hr.	8 to 10 hr.
Coverage:	125 to 225 sq. ft./gal.	130 to 220 sq. ft./gal.	115 to 190 sq. ft./gal.	115 to 190 sq. ft./gal.	100 to 175 sq. ft./gal.	115 to 190 sq. ft./gal.	125 to 200 sq. ft./gal.	130 to 220 sq. ft./gal.
VOC Content:	<340g/L	<250g/L	<340g/L	<250g/L	<340g/L	<250g/L	<250g/L	<100 g/L

Color	9100 STANDARD Item No.	V9100 LOW VOC STANDARD Item No.	9100 FAST CURE Item No.	V9100 LOW VOC FAST CURE Item No.	9100 WATER IMMERSION Item No.	V9100 LOW VOC WATER IMMERSION Item No.	V9100 LOW VOC LOW TEMPERATURE Item No.
1-gal. Epoxy Mastic, Includes Paint and Activator to Make 2 Complete gal.							
Aluminum	7AJ71	7AJ82	7AJ93	7AK04	7AK15	7AK26	7AK37
Black	7AJ78	7AJ89	7AK00	7AK11	7AK22	7AK33	7AK44
Dunes Tan	7AJ77	7AJ88	7AJ99	7AK10	7AK21	7AK32	7AK43
Marlin Blue	7AJ72	7AJ83	7AJ94	7AK05	7AK16	7AK27	7AK38
Navy Gray	7AJ80	7AJ91	7AK02	7AK13	7AK24	7AK35	7AK46
Regal Red	7AJ75	7AJ86	7AJ97	7AK08	7AK19	7AK30	7AK41
Safety Blue	7AJ73	7AJ84	7AJ95	7AK06	7AK17	7AK28	7AK39
Safety Green	7DC58	7DC59	7DC60	7DC61	7DC62	7DC63	7DC64
Safety Orange	59JM49	59YE55	59YE57	59YE59	59YE61	59YE63	59YE65
Safety Red	59JM48	59YE54	59YE56	59YE58	59YE60	59YE62	59YE64
Safety Yellow	7AJ74	7AJ85	7AJ96	7AK07	7AK18	7AK29	7AK40
Silver Gray	7AJ79	7AJ90	7AK01	7AK12	7AK23	7AK34	7AK45
White	7AJ81	7AJ92	7AK03	7AK14	7AK25	7AK36	7AK47
5-gal. Epoxy Mastic, Includes Paint and Activator to Make 10 Complete gal.							
Dunes Tan	7AK51	—	—	—	—	7AK53	—
Silver Gray	7AK48	7AK52	—	—	—	7AK50	—

High Performance Stainless Steel Rich Coating

RUST-OLEUM INDUSTRIAL BRANDS



No. 2NU54



No. 29EK24

STEEL-TECH EPOXY MASTIC 2-PART SYSTEM

Fortified with 316L stainless steel for long-term corrosion protection in harsh environments. Apply direct-to-metal.

SURFACES: Metal, rusted metal, galvanized steel, concrete, masonry

STEEL-TECH STAINLESS STEEL AEROSOL

Matches Steel-Tech® polyurethane coating for easy touch-up. High paint solids provide coverage in one coat with excellent gloss retention. Dries to touch in only 20 min. Tough, professional finish resists chipping, cracking, and peeling. Use on surfaces that reach up to 200°F.

DRY TIME AND COVERAGE

	Fast Cure	Low VOC Fast Cure	Stainless Steel Aerosol
Dry Time:	6 to 8 hr.	2-4 hrs	10 to 20 min.
Coverage:	115 to 190 sq. ft./gal	115 to 190 sq. ft./gal	12 to 13 sq. ft./can
VOC Content:	<340g/L	Less Than 100g/L	—

Description	Size	Item No.
STEEL-TECH Epoxy Mastic 2-Part System		
Part 2		
Fast Cure Epoxy Coating Activator	1 gal.	2NU54
Low-VOC Fast Cure Epoxy Coating Activator	1 gal.	2NU65
STEEL-TECH Stainless Steel Aerosol		
Gray	15 oz.	29EK24



No. 7AJ63

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Water-Based Epoxy

- 5300 system
- Dry time: 2 to 5 hr.
- Coverage: 200 to 350 sq. ft./gal.
- VOC content: <250g/L

Forms a tough, protective coating with minimal odor; great for indoor applications. Provides excellent chemical, abrasion, and corrosion resistance. 2-component system.

SURFACES: Aluminum, concrete, galvanized steel, masonry

Color	Item No.
Water-Based Epoxy Primers, includes paint and activator to make 1 complete gallon	
Gray	7AJ63
Water-Based Epoxy Paint, includes paint and activator to make 1 complete gallon	
Safety Yellow	7AJ65
Black	7AJ68
Silver Gray	7AJ69
White	7AJ70



No. 4DNA2

Sierra Performance™ Water-Based Epoxy Maintenance Coating Kits

RUST-OLEUM INDUSTRIAL BRANDS

GREEN SEAL CERTIFIED

- S60 system
- Dry time: 1 to 3 hr.
- Coverage: 230 to 340 sq. ft./gal.
- 2 component system
- VOC content: VOC free

Apply versatile coating to concrete, masonry, and wood. VOC-free formula creates a high-gloss finish.

Color	Size	Item No.
OSHA Safety Yellow	1 gal.	4DNA5
OSHA Safety Blue	1 gal.	4DNA8
OSHA Safety Red	1 gal.	4DNA4
Black	1 gal.	4DNA7
Oyster White	1 gal.	4DNA6
Stone Gray	1 gal.	4DNA2

RUST-OLEUM INDUSTRIAL BRANDS

Noxyde® Water-Based Acrylic Elastomeric Coating

- Dry time: 2 to 4 hr.
- Coverage: 110 sq. ft./gal.
- VOC content: <15 g/L

Provide long-term corrosion protection in most aggressive environments. Designed for minimally prepared sound-rusted or clean steel. Spray application only.



▶CHOOSE: Color	Size	Item No.
Beige Gray, Black, Blue Gray, Brown, English Red, Gravel Gray, Gray Green, Off White, Reseda Green, White	5 gal.	J0583

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Acrylic Polyester Urethane

- 9700 system
- 2-component system
- Dry time: 3 to 6 hr.
- Coverage: 360 to 860 sq. ft./gal.
- VOC content: <250 g/L

High-solids, thin-film coatings provide outstanding color and gloss retention with a low VOC formula.

SURFACES: Concrete, metal, and galvanized steel



No. 7AK71

Color	Item No.
Includes Paint Activator to Make 1 Complete Gallon	
White	7AK71
Crystal Clear	7AK72

RUST-OLEUM INDUSTRIAL BRANDS

High Performance High-Heat Coating

- VOC content: <420 g/L
- 1-gal.

Provide long-term corrosion protection on metal exposed to extremely high temperatures. Excellent resistance to thermal shock.



No. 36ND74

Color	Dry Time	Coverage	Item No.
General Purpose, Up to 400°F			
Aluminum	1 to 2 hr.	250 to 540 sq. ft.	36ND74
Black	1 to 2 hr.	250 to 540 sq. ft.	36ND75
Heavy Duty, Up to 800°F			
Aluminum	1 to 2 hr.	450 to 606 sq. ft.	36ND76
Black	1 to 2 hr.	450 to 606 sq. ft.	36ND77
High Performance, Up to 1200°F			
Aluminum	1 to 2 hr.	250 to 560 sq. ft.	36ND78
Black	1 to 2 hr.	250 to 560 sq. ft.	36ND79

RUST-OLEUM INDUSTRIAL BRANDS

Commercial Acrylic Aliphatic Urethane

- 3300 system
- 2-component system
- Dry time: 7 to 9 hr.
- Coverage: 355 to 770 sq. ft./gal.
- VOC content: <250 g/L

Interior/Exterior paint for moderate to severe industrial environments. High durability with good chemical resistance. Ideal for outdoor equipment.

No. 36ND70



Color	Size	Item No.
Urethane Paint		
Safety Yellow	1 gal.	36ND70
Safety Blue	1 gal.	36ND71
Safety Red	1 gal.	36ND72
Activator		
White	1 pt.	36ND73

RUST-OLEUM INDUSTRIAL BRANDS

Peganox® Water-Based Acrylic Elastomeric Coating

- Dry time: 2 to 3 hr.
- Coverage: 220 sq. ft./gal.
- VOC content: <100 g/L

Maintenance coating are designed for high protection, adhesion, and elasticity and provide long-term corrosion protection. Require minimal surface preparation.



Color	Size	Item No.
Black	5 gal.	35YJ76

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Direct-to-Metal Urethane Mastic

- 9800 system
- 2-component system
- Dry time: 6 to 9 hr.
- Coverage: 160 to 280 sq. ft./gal.
- VOC content: <340 g/L

High-solids, high-build urethane mastic is a direct-to-metal aliphatic acrylic polyurethane. Provides corrosion protection of steel in moderate to severe environments. Formulated for minimally prepared, tightly adhered rusted steel. 1-coat hide. No primer needed.

SURFACES: Concrete, metal, and galvanized steel



No. 7AK73

Color	Item No.
Includes Paint Activator to Make 1 Complete Gallon	
Aluminum	7AK73
Black	7AK79
Navy Gray	7AK80
Regal Red	7AK77
Safety Blue	7AK74
Safety Yellow	7AK75
White	7AK81

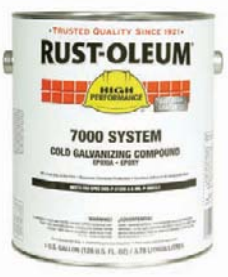
RUST-OLEUM INDUSTRIAL BRANDS

High Performance Cold Galvanizing Compound

- 7000 system
- Dry time: 1 to 2 hr.
- Coverage: 310 to 440 sq. ft./gal.
- VOC content: <500 g/L

Contains 95% pure zinc for ultimate galvanic protection. Excellent adhesion to galvanized metal for maximum corrosion protection.

SURFACES: Bare sheet metal, production welds, galvanized metal



No. 3BU16

Color	Size	Item No.
Gray	1 qt.	3BU17
Gray	1 gal.	3BU16



RUST-OLEUM INDUSTRIAL BRANDS

Antislip High-Performance Epoxy Kit

- AS9100 system
- 2-component system
- Dry time: 72 hr.
- Coverage: 40 to 60 sq. ft./gal.
- VOC content: <250 g/L

Offers maximum protection against heavy vehicle equipment, chemical spills, and power cleaning. Base and activator included.

▶CHOOSE: Color	Item No.
Safety Yellow, Tile Red, Dunes Tan, Silver Gray, Navy Gray	H7194

INSL-X



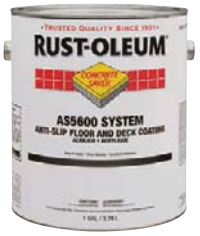
Antislip Paint

- Dry time: 1 to 2 hr.
- Coverage: 80 to 100 sq. ft./gal.
- VOC content: <250 g/L

Acrylic coating with special aggregate provides a skid-resistant surface for interior and exterior concrete or asphalt.

▶CHOOSE: Color	Item No.
Clear, Desert Sand, Gray Pearl, Light Gray, Pine Green, Saddle Brown, Tile Red, White	J4599

RUST-OLEUM INDUSTRIAL BRANDS



Antislip Floor and Deck Coating

- AS5600 system
- Dry time: 4 hr.
- Coverage: 60 to 70 sq. ft./gal.
- VOC content: <100 g/L

Flexible acrylic coating can be used on interior or exterior concrete, asphalt, wood or metal.

▶CHOOSE: Color	Item No.
Yellow, Black, Gray	H7191

RUST-OLEUM INDUSTRIAL BRANDS



Antislip Spray Paint

- AS2100 system
- Dry time: 24 to 48 hr.
- Coverage: 14 sq. ft.

Create a slip-resistant surface in minutes that resists cracking, peeling, and mild chemicals. Ideal for use on stairs, pool decks, ramps, and walkways.

▶CHOOSE: Color	Net Wt.	Item No.
Safety Yellow, Black, Clear	17 oz.	H7167

RUST-OLEUM INDUSTRIAL BRANDS



Antislip 100% Solids Epoxy

- AS6500 system
- 2-component system
- Dry time: 48 hr.
- Coverage: 25 to 35 sq. ft./gal.
- VOC content: 30 g/L

For use in food processing areas. Low odor.

Color	Item No.
Navy Gray	4CJ55



SUPPLIER DIVERSITY

WOOSTER PRODUCTS, INC.

Safe-Stride® Antislip Paint

No. 3JW47

- Dry time: 2 - 4 hr.
- Coverage: 100 - 125 sq. ft./gal.
- VOC content: low

Acrylic paint provides safe traction for pedestrian traffic. Surface installation is between 12 and 16 mil. For use on bare wood, concrete, primed metal, asphalt, marble, stone, and other surfaces.

Color	Item No.
Gray	3JW47
Black	1AJZ3
Safety Yellow	2TVC5



RUST-OLEUM INDUSTRIAL BRANDS

Antislip 1-Step Epoxy

- AS5400 system
- Dry time: 24 hr.
- Coverage: 50 sq. ft./gal.
- VOC content: <340 g/L

Provides a safety finish for pedestrian traffic. For use on aisles, entrances, exits, and stairs.

SURFACES: Concrete and metal (prime metal with 9100 System with 9101 Activator)

▶CHOOSE: Color	Item No.
Black, Dunes Tan, Navy Gray, Safety Yellow, Silver Gray, Tile Red	H7192

RUST-OLEUM INDUSTRIAL BRANDS

No. 6A935



Antiskid Additive and Etching Solution

Concrete Saver® 200 Antiskid Additive—Mix directly into the floor coating or broadcast by hand. Interior or exterior use.

108 Cleaning and Etching Solution—Promotes max. coating adhesion. Dissolves grease and oils.

	Color	Size	Coverage	Item No.
Concrete Saver® 200 Antiskid Additive	Off-White	1 lb.	1 lb./gal.	6A936
108 Cleaning/ Etching Solution	Pink	1 gal.	400 sq. ft./gal.	6A935



RUST-OLEUM INDUSTRIAL BRANDS

Sierra Performance™ Water-Based Epoxy Floor Coating

No. 4CY35

- S40 system
- 2-component system
- Dry time: 72 hr./Classic gray 24 hr.

Create a high-gloss finish and is highly resistant to most chemicals and abrasion. For use on concrete floors.

Color	VOC Content	Coverage	Item No.
Floor Coating			
Classic Gray	Zero VOC	225 to 340 sq. ft./gal.	4CY35
Clear	Zero VOC	225 to 340 sq. ft./gal.	6LDL9
Satin Clear	< 50g/L	125 to 195 sq. ft./gal.	4CY39

RUST-OLEUM INDUSTRIAL BRANDS



Acrylic Urethane Floor Paint

- 5600 system
- Dry time: 72 hr.
- Coverage: 170 to 270 sq. ft./gal.
- VOC content: <100 g/L

Low-odor, mildew-resistant paint cleans up with soap and water. For line striping.

▶CHOOSE: Color	Item No.
Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Gray, White	H7195



RUST-OLEUM INDUSTRIAL BRANDS

Gloss Epoxy Floor Coating

No. 52LC63

- 6700 System
- Dry time: 16 hr.
- Coverage: 100 sq. ft./gal.
- VOC content: <50 g/L

For use on concrete and in high-traffic areas. Include base and activator.

Color	Item No.
Clear	52LC64
Navy Gray	52LC65
Silver Gray	52LC63



RUST-OLEUM INDUSTRIAL BRANDS

Water-Based Epoxy Floor Coating

No. 7AJ47

- 6000 system
- 2-component system
- Dry time: 72 hr.
- Coverage: 200 to 350 sq. ft./gal.
- VOC content: <250 g/L

For floors exposed to heavy foot traffic and occasional rubber-tire vehicle traffic.

Color	Item No.
Clear	7AJ47
Navy Gray	7AJ51
Silver Gray	7AJ50
Tile Red	7AJ48

Red Devil
RED DEVIL EQUIPMENT CO.

The Classic Electric and Air Driven Paint Shakers and Accessories

- Accommodate pints, quarts, and gallons

Multisize clamping action shakes a variety of container sizes and shapes ranging from 3½" to 11" in height. High-speed bi-axial motion ensures a complete mix and limit switch stops mixing cycle when safety enclosure is opened. Require a base, sold separately.

Style	Timer	W	D	H	Mfr. Model	Item No.
Electric Paint Shakers, 110V						
Single Arm Electric	15 Min. Manual	27⅞"	29⅜"	31½"	141000	**6EXK4**
Single Arm Electric	1 hr. Manual	27⅞"	29⅜"	31½"	14100H	**6EXK5**
Twin Arm Electric	15 Min. Manual	41⅝"	21⅜"	31½"	140000	**6EXK0**
Twin Arm Electric	1 hr. Manual	41⅝"	29⅜"	31½"	14000H	**6EXK1**
Twin Arm Electric Explosion Proof	—	41⅝"	29⅜"	31½"	1400X1	**6EXK3**
Air Driven Paint Shakers, 8 cfm @ 100 psi						
Single Arm Pneumatic	—	27⅞"	29⅜"	31½"	1410A1	**6EXK6**
Twin Arm Pneumatic	—	41⅝"	29⅜"	31½"	1400A1	**6EXK2**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Counter Base for The Classic Shakers	Mfr. No. 140000, 14000H, 1400A1, 141000, 14100H, 1410A1	515300	**6FWG7**


No. 6EXK4


No. 6EXK0


Explosion Proof No. 6EXK3


No. 6EXK2


No. 6FWG7

RADIA

Red D Mix™ Intrinsically-Safe Mixers

Feature gyroscopic mixing action with direct-drive gear system. No timer or power cord included; requires installation by qualified electrician.


No. 34AU66

Accommodates	Voltage	Mfr. Model	Item No.
Gallons, Quarts (with Included Adapter)	110	1025X1	**6EXK7**
5 gal. Pails	110	05025-X1	**34AU66**


No. 14C564


No. 6FWH0

RADIA

Paint Mixing Equipment Accessories

Description	Mfr. Model	Item No.
Counter Mount Lid Press	5080-03	**14C563**
Lid Press With Base Plate	5080-04	**14C564**
5-gal. Lid Sealer	507000	**6FWH0**
Draw Down 40-Slot Drying Tower	A3525	**6FWH2**
Magnetic Mallet Holder	A3522	**6FWH3**

Agitar™ Automatic Multisize Mixer

RADIA

Handles pint to 5-gal. containers (4" to 17½" high) and can mix up to 4 gal. or 9 qt. at a time. Orbital mixing aggressively shakes all types of products.



Timer	Voltage	Mfr. Model	Item No.
2 and 3 min. Push Button	110	5995PB	**45GP38**

GA GRAINGER APPROVED

Premier®

All-Steel Drum Mixers

- Heavy-gauge steel
- Can be used with portable drills and drill presses (½" chuck)
- Include cap with hole to hang


No. 2FDJ2



No. 24K696

Description	Head Dia.	Shaft Dia.	Shaft Length	Max. RPM	Brand	Item No.
Light-Duty Mixer	4⅛"	7/16" Hex	24½"	800	GA	**2FDJ2**
Medium-Drum Mixer	4⅜"	7/16" Hex	24½"	700	GA	**2FDJ3**
Heavy-Duty Mixer	4½"	7/16" Hex	24½"	500	GA	**2FDJ4**
3¼" Paint Mixer	3¼"	11/32"	17"	900	Premier	**24K696**
4" Paint Mixer	4"	13/32"	23"	900	Premier	**24K697**
4¾" Paint Mixer	4¾"	½"	30"	900	Premier	**24K698**
Quart/Gallon Paint Mixer	2¼"	¼"	14"	900	Premier	**24K699**

Agitator

BINKS

Agitator drive and cover assembly includes ½ HP air motor, one 3" stainless steel propeller and shaft, and 5-gal. stainless steel cover. Motor air supply should be 60 psi minimum and the propeller speed should be 3000 rpm maximum.



Container Size	Mfr. Model	Item No.
5 gal.	31-425	**2TKP3**



No. 5H901

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Rust-Preventative Industrial Spray Paints

- V2100 system
- Dry time: 1 to 2 hr.
- Coverage: Varies by color and finish

Fast-drying enamel provides excellent corrosion protection, as well as color and gloss retention. Resist chipping, cracking, and peeling. Indoor/outdoor use.

Color	Paint and Primer Finish	Net Weight	Item No.
Primers			
Gray	Flat	15 oz.	**5U705**
Red	Flat	15 oz.	**5U704**
White	Flat	15 oz.	**4CY47**
Paint			
Almond	Gloss	15 oz.	**4TH65**
Anodized Bronze	Gloss	15 oz.	**4CY49**
Black	Flat	15 oz.	**2FP66**
Black	High Gloss	15 oz.	**5H903**
Black	Semi-Gloss	15 oz.	**4CH75**
Bright Green	Gloss	15 oz.	**4TH63**
Bright Red	Gloss	15 oz.	**5H901**
Chestnut Brown	Gloss	15 oz.	**4TH67**
Clear	Gloss	14 oz.	**4TH61**
Dark Green	Gloss	15 oz.	**2FP63**
Dark Machine Gray	Gloss	15 oz.	**5H905**
Deep Blue	Gloss	15 oz.	**2FP62**
Dove Gray	Gloss	15 oz.	**4CH76**
Equipment Orange	Gloss	15 oz.	**4TH64**
Equipment Yellow	Gloss	15 oz.	**2FP65**
Fleet White	Gloss	15 oz.	**4TH68**
Fluorescent Green	Fluorescent	14 oz.	**5W908**
Fluorescent Orange	Fluorescent	14 oz.	**5W177**
Fluorescent Red	Fluorescent	14 oz.	**5W178**
Fluorescent Yellow	Fluorescent	14 oz.	**5W907**
Hunter Green	Gloss	15 oz.	**4CH73**
Industrial Yellow	Gloss	15 oz.	**2FP64**
Light Blue	Gloss	15 oz.	**4TH62**
Light Machine Gray	Gloss	15 oz.	**5H904**
Metal Black	Hammered	15 oz.	**4CY56**
Metal Dark Bronze	Hammered	15 oz.	**4CY59**
Metal Gold	Hammered	15 oz.	**4CY58**
Metal Silver	Hammered	15 oz.	**4CY57**
Safety Blue	Gloss	15 oz.	**5H896**
Safety Green	Gloss	15 oz.	**5H897**
Safety Orange	Gloss	15 oz.	**5H899**
Safety Purple	Gloss	15 oz.	**4CH74**
Safety Red	Gloss	15 oz.	**5H900**
Safety Yellow	Gloss	15 oz.	**5H898**
Silver Aluminum	Gloss	14 oz.	**2FP61**
Smoke Gray	Gloss	15 oz.	**4CH77**
Stainless Steel	Gloss	14 oz.	**3UP88**
Tan	Gloss	15 oz.	**5H902**
White	Flat	15 oz.	**5U707**
White	Gloss	15 oz.	**5U708**
White	Semi-Gloss	15 oz.	**4CY48**
Farm Equipment Paint			
Caterpillar Yellow	Gloss	15 oz.	**4CY52**
Ford Blue	Gloss	15 oz.	**4CY55**
International Red	Gloss	15 oz.	**4CY54**
JD Green	Gloss	15 oz.	**4CY50**
JD Yellow	Gloss	15 oz.	**4CY51**



No. 53JT40 (Drum not included)



No. 53JT43 (Drum not included)

NEWSTRIPE INC

Aerosol Can Disposal Systems



No. 53JT41

Quickly punctures and drains aerosol cans, reducing the cost of hazardous waste disposal by allowing the can to be recycled. Features a built-in cycle counter. Replacement carbon filters with coalescing element. Cellulose shell and carbon media is biodegradable and decomposes naturally. Nos. 53JT42 and 53JT44 include check ball, mounting base and top.

Aerosol Recycling Can Capacity	For Use With Can Diameter	For Use With Can Height	Can Counter Included	Item No.
Aerosol Can Recycling System				
1	2" to 3"	Up to 10½"	Yes	**53JT40**
1	2" to 3"	10½"	No	**436D37**
3	2" to 3"	Up to 10½"	No	**53JT43**

Aerosol Recycling Can Capacity	Item No.	Pkg. Qty.
Filter		
1	**436D38**	1
1	**436D39**	2
600	**53JT42**	1
600	**53JT41**	2
1200	**53JT44**	1



No. 5W180

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Zinc-Rich Galvanizing Compounds

- Dry time: 1 to 2 hr.
- Coverage: 14 sq. ft. for No. 5W909; 24 sq. ft. for No. 5W180

Contain up to 93% pure zinc for maximum corrosion protection. Moderate to severe environments.

Color	Paint and Primer Finish	Net Weight	Item No.
Bright Galvanized	Metallic	20 oz.	**5W909**
Metallic Galvanized	Metallic	20 oz.	**5W180**



No. 1D493

RUST-OLEUM INDUSTRIAL BRANDS

High-Temperature Paints

- Dry time: 1 to 2 hr.
- Coverage: 14 sq. ft.

Self-priming coatings resist temperatures up to 1000°F.

Color	Paint and Primer Finish	Net Weight	Item No.
Black	Flat	15 oz.	**5W179**
Aluminum	Flat	15 oz.	**1D493**



No. 3ZHX9

RUST-OLEUM INDUSTRIAL BRANDS

Spray Epoxy Primer

- Dry time: 2 hr.
- Coverage: 8 to 12 sq. ft.

High performance protection with the convenience of a no-mess spray. Ideal for priming welds, seams, and bolts.

Color	Paint and Primer Finish	Net Weight	Item No.
Gray	Flat	13.2 oz.	**3ZHX9**
Beige	Flat	14.1 oz.	**3ZHY1**



RUST-OLEUM INDUSTRIAL BRANDS

Rebar Epoxy Aerosol Paint

- Dry time: 15 min.
- Coverage: 8 to 9 sq. ft.

One-step, direct-to-metal paint prevents rust and metal stains in concrete. Excellent corrosion and chemical resistance. For touch-up of rebar coating on the job site.

Color	Paint and Primer Finish	Net Wt.	Item No.
Green	Gloss	12 oz.	**23N407**



RUST-OLEUM INDUSTRIAL BRANDS

Galvanizing Compound Spray Paint

- 1600 system
- Dry time: 1 hr.
- Coverage: Up to 22 sq. ft.

Zinc-rich coating contains a high level of zinc providing superior galvanic protection. Dries to touch within 20 minutes and can be used on surfaces that reach temperatures up to 200°F. Touch-up or repair damaged galvanized steel, vehicles, ducts, fences, bridges, tanks, trailers and production welds.

Color	Paint and Primer Finish	Net Weight	Item No.
Galvanized Zinc	Flat	14 oz.	**6KP26**

TOUGH GUY

Enamel Maintenance Spray Paints

- Dry time: 1 hr.
- Coverage: 12 to 15 sq. ft.

Multipurpose paints spray at any angle. Ultra-coverage formula covers more surface faster with fewer cans, minimizing down-time and waste. Feature a comfort spray tip for reduced finger fatigue.

SURFACES: Metal, concrete, masonry, and wood

EXPOSURE: Indoor/Outdoor

USES: Tools, equipment, motors, lockers, vents, and cabinets

Color	Paint and Primer Finish	Net Weight	Item No.
Primers			
Gray	Flat	12 oz.	**4WGA8**
Red	Flat	12 oz.	**4WGC4**
White	Flat	12 oz.	**4WGD3**
Paints			
Black	Ultra-Flat	12 oz.	**4WGC1**
Black	Semi-Flat	12 oz.	**4WGC3**
Black	Gloss	12 oz.	**4WGA7**
Cherry Red	Gloss	12 oz.	**4WGD5**
Crystal Clear	Gloss	12 oz.	**4WGD4**
Light Gray	Gloss	12 oz.	**4WGD6**
Machine Green	Gloss	12 oz.	**4WGC9**
Machinery Gray	Gloss	12 oz.	**4WGC7**
OSHA Safety Blue	Gloss	12 oz.	**4WGC5**
OSHA Safety Green	Gloss	12 oz.	**4WGD7**
OSHA Safety Orange	Gloss	12 oz.	**4WGC8**
OSHA Safety Purple	Gloss	12 oz.	**4WGD8**
OSHA Safety Red	Gloss	12 oz.	**4WGC6**
True Blue	Gloss	12 oz.	**4WGD1**
White	Gloss	12 oz.	**4WGC2**
White	Flat	12 oz.	**4WGD2**



No. 4WGA8 Gray



No. 4WGA7 Gloss Black



No. 4WGC6 OSHA Safety Red

RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Enamel Spray Paints

- 1600 system
- Dry time: 1 hr.
- Coverage: 12 to 15 sq. ft.

High solids content provides faster, further coverage and resists chipping, fading, cracking and peeling. 360° angle spray with comfort tip, reducing finger fatigue.

SURFACES: Masonry, metal, wood, and concrete

EXPOSURE: Indoor/outdoor

USES: Tools, ducts, vents, ladders, cabinets, lockers, furniture and equipment VOC/MIR compliant.

Color	Paint and Primer Finish	Net Wt.	Item No.
Enamel Primers			
Black	Flat	12 oz.	**6DNU5**
Gray	Flat	12 oz.	**6KP23**
Red	Flat	12 oz.	**6KP14**
White	Flat	12 oz.	**6KP24**
Enamel Paints			
Almond	Gloss	12 oz.	**6KP17**
ANSI 49 Medium Light Gray	Gloss	12 oz.	**2RE52**
ANSI 61 Light Gray	Gloss	12 oz.	**2RE51**
ANSI 70 Light Gray	Gloss	12 oz.	**2RE53**
Banner Red	Gloss	12 oz.	**6KP13**
Beige	Gloss	12 oz.	**6KP16**
Black	Flat	12 oz.	**6KP19**
Black	Gloss	12 oz.	**6KP22**
Black	Semi-Flat	12 oz.	**6KP21**
Cherry Red	Gloss	12 oz.	**6KP11**
Crystal Clear	Gloss	12 oz.	**6KN84**
Dove Gray	Gloss	12 oz.	**6KP25**
Dull Aluminum	Gloss	12 oz.	**6KN85**
Dusty Pink	Gloss	12 oz.	**6YH32**
Emerald Green	Gloss	12 oz.	**6DNU6**
Fluorescent Green	Gloss	12 oz.	**6KN92**
Fluorescent Pink	Gloss	12 oz.	**6KP08**
Fluorescent Red-Orange	Gloss	12 oz.	**6KP05**
Hunter Green	Gloss	12 oz.	**6KN94**
Leather Brown	Gloss	12 oz.	**6KP18**
Machine Green	Gloss	12 oz.	**6YH27**
Machinery Gray	Gloss	12 oz.	**6YH30**
OSHA Safety Blue	Gloss	12 oz.	**6KN87**
OSHA Safety Green	Gloss	12 oz.	**6KN93**
OSHA Safety Orange	Gloss	12 oz.	**6KP03**
OSHA Safety Purple	Gloss	12 oz.	**6KP15**
OSHA Safety Red	Gloss	12 oz.	**6KP09**
OSHA Safety Yellow	Gloss	12 oz.	**6KN97**
Purple	Gloss	12 oz.	**6DNU4**
Regal Blue	Gloss	12 oz.	**6KN86**
School Bus Yellow	Gloss	12 oz.	**6KN96**
Smoke Gray	Gloss	12 oz.	**6KP28**
True Blue	Gloss	12 oz.	**6KN89**
Universal Gray	Gloss	12 oz.	**6KP27**
White	Gloss	12 oz.	**6KP31**
White	Semi-Gloss	12 oz.	**6DNU7**
White	Flat	12 oz.	**6KP29**



No. 6KP14 Red



No. 6KN87 OSHA Safety Blue

DEM-KOTE

SUPPLIER DIVERSITY

Dem-Kote Industrial Enamel Spray Paints

- Dry time: 1 hr.
- Coverage: 5 to 8 sq. ft.

Long-lasting gloss finish resists rust and chemicals. Use with primer on metal surfaces. VOC/MIR compliant.

SURFACES: Metal, masonry, concrete, wood

EXPOSURE: Indoor/outdoor

USES: Identification marking, handrails, stenciling, ducts, touch-up, piping, metal doors, office furniture, machinery, railings

Color	Paint and Primer Finish	Net Weight	Item No.
Primer			
Gray	Flat	10 oz.	**6FGH6**
Paints			
White	Gloss	10 oz.	**6FGH8**
White	Flat	10 oz.	**6FGJ4**
Safety Yellow	Gloss	10 oz.	**6FGJ2**
Safety Orange	Gloss	10 oz.	**6FGJ5**
Safety Red	Gloss	10 oz.	**6FGJ1**
Ford Blue	Gloss	10 oz.	**6FGJ0**
Green (Matches John Deere)	Gloss	10 oz.	**6FGJ3**
Machine Gray	Gloss	10 oz.	**6FGH7**
Chrome Silver	Gloss	10 oz.	**6FGH9**
Black	Gloss	10 oz.	**6FGH4**
Black	Flat	10 oz.	**6FGH5**



No. 6FGH7 Gloss Machine Gray

No. J4760



Acryli-Quik™ Spray Paint and Primer

KRYLON INDUSTRIAL

- Dry time: 12 min.

Feature original 5-ball formula. Provides a hard, protective, and durable finish. There is no recoat window, so you can recoat anytime. High amount of solids assures maximum coverage with excellent adhesion. Superior performance, both indoors and outdoors.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Paint			
Almond, Banner Red, Black, Crystal Clear, Emerald Green, Hunter Green, Khaki Beige, Leather Brown, Pewter Gray, Pumpkin Orange, Regal Blue, Saftey Purple, Shadow Gray, Smoke Gray, Sun Yellow, True Blue, Ultra Black, White	Gloss, Semi-Flat, Ultra-Flat, Flat, Semi-Gloss	12 oz.	**J1453**
Cherry Red	Gloss	12 oz.	**54TG89**
Daisy Yellow	Gloss	12 oz.	**54TG83**
Primer			
Black, Gray, Ruddy Brown, White	Flat	12 oz.	**J4760**

No. J1474



Tough Coat® Spray Paint and Primer

KRYLON INDUSTRIAL

- Dry time: 15 min.

Provide protective coating that resists chipping and peeling. Specially formulated for a variety of industrial applications. Ideal for light- to heavy-duty painting projects, both indoors and outdoors.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.	
Paint				
Black, Blue, Blue/Gray, Bright Red, Cherry Red, Clear, Cordova Brown, Dark Blue, Dark Machinary Gray, Federal Highway Yellow, Fluorescent Green†, Fluorescent Orange†, Fluorescent Red†, Ford Blue, Gold, Gray, Green, High Heat Aluminum, High Heat Black‡, Implement Orange, Industrial Gray, International Harvest Red, John Deere Green, Joy Orange, Light Beige, Light Blue, Light Gray, Light Machinary Gray, Machine Green, Machinery Blue/Gray, Machinery Gray, Medium Green, New Caterpillar Yellow, Old Caterpillar Yellow, Orange, Purple, Red, Silver, White, Yellow, Zinger Pink	Gloss, Satin	11 oz., 12 oz.	**J1474**	
Black	Flat	12 oz.	**54TJ42**	
Green Corrosion	Gloss	12 oz.	**54TJ44**	
Rebar Green Epoxy	Gloss	12 oz.	**54TJ45**	
Silver	Gloss	12 oz.	**54TJ46**	
White	Flat	12 oz.	**54TJ41**	
Primer				
Gray	Flat	12 oz.	**54TJ03**	
Light Gray	Flat	12 oz.	**54TJ04**	
Red Oxide	Flat	12 oz.	**54TJ02**	
Red Oxide	Flat	12 oz.	**54TJ05**	*

** Sandable. †Only available in 11 oz. ‡Only available in Satin.*



KRYLON INDUSTRIAL

ColorWorks™ Maintenance Choice™ Spray Paint and Primer

- Dry time: 15 min.

Good for hiding and gloss retention. Interior/exterior use. Feature EZ Touch® Fanspray® nozzle.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Paint			
Almond, Black, Cherry Red, Citrus Yellow, Clear Lacquer, Dark Machinery Gray, Emerald Green, Equipment Orange, Flourescent Orange, Harvester Red, Hunter Green, Industrial Gray, Light Machinery Gray, Navy Blue, Royal Blue, Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Aluminum, Sunshine Yellow, Walnut Brown, White, Zinger Pink	Gloss, Flat	10 oz.	**J1452**
Primer			
Gray	Flat	10 oz.	**54TH20**
Red Oxide	Flat	10 oz.	**54TH21**



No. J1472

KRYLON INDUSTRIAL

Rust Tough® Spray Paint and Primer

- Dry time: 25 min.

Direct-to-metal rust preventative formula does not require a primer. Complete coverage with one coat. Ideal for small touch-up jobs, painting irregular shapes, and covering hard-to-reach areas. For both indoor and outdoor use. Feature EZ Touch® Fanspray® nozzle.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Paint			
Aluminum, Black, Blue, Bright Green, Bright Red, Chestnut Brown, Dark Green, Dark Machinary Gray, Deep Blue, Equipment Orange, Equipment Yellow, Federal Yellow, Gray, Green, Industrial Yellow, Light Blue, Light Machinary Gray, Orange, Red, White, Yellow	Gloss	14 oz.	**J1472**
Cold Galvanizing	Gloss	20 oz.	**54TH93**
Fluorescent Green, Fluorescent Orange, Fluorescent Red, Fluorescent Yellow	Gloss	14 oz.	**J5706**
Primer			
Gray	Flat	15 oz.	**54TH95**
Red	Flat	15 oz.	**54TH94**



No. J4763

KRYLON INDUSTRIAL

Iron Guard® Latex Paint

- Dry time: 20 min.
- Coverage: 15 to 20 sq. ft.

Provide good color retention. Not water-reducible and extremely low-odor. Soap and water clean-up when wet.

SURFACES: Metal, wood, masonry, plaster, and most plastics

EXPOSURES: Use on interior/exterior surfaces

▶CHOOSE: Color	Paint and Primer Finish	Net Weight	Item No.
Black, Cherry Red, Clear, White	High Gloss	12 oz.	**J5812**
Black, White	Flat	12 oz.	**J4763**
Island Green, OSHA Blue, OSHA Green, OSHA Orange, OSHA Red, OSHA Yellow	High Gloss	12 oz.	**E0181**
Satin Black, Satin Gray, Satin White	Satin	12 oz.	**J4764**



No. 460U10

RUST-OLEUM INDUSTRIAL BRANDS

H20 Pro Water-Based Aerosol

- Dry time: 24 hr.

Rust-preventative spray coating bonds to most indoor or outdoor surfaces with a long-lasting, ultra-high gloss finish. Create a smooth finish with no sags, drips, or runs.

Color	Paint and Primer Finish	Net Weight	Item No.
Almond	High Gloss	12 oz.	**460U14**
Black	High Gloss	12 oz.	**460U08**
Safety Blue	High Gloss	12 oz.	**460U10**
Safety Green	High Gloss	12 oz.	**460U12**
Safety Orange	High Gloss	12 oz.	**460U07**
Safety Purple	High Gloss	12 oz.	**460U11**
Safety Red	High Gloss	12 oz.	**460U09**
Safety Yellow	High Gloss	12 oz.	**460U06**
White	High Gloss	12 oz.	**460U05**

KRYLON

Special Purpose Spray Paint

Specially-formulated for unique applications and environments.

APPLIANCE EPOXY
Chemical and stain-resistant epoxy is durable, scrubbable, and colorfast.

OSHA PAINT
High-visibility safety colors. Approved by the Occupational Safety and Health Act governing board.

METALLIC PAINT
Dries quickly for a brilliant metallic-like finish.

HIGH-HEAT PAINT
Withstands temperatures up to 1200°F intermittently, up to 600°F continuously.

FLUORESCENT PAINT
Bright, bold neon colors for maximum visibility and safety. Increase brilliance by 200% to 400%.

CRYSTAL CLEAR
Provides a tough, long-lasting protective coating.

CHALKBOARD PAINT
Creates a slate-like chalkboard surface. Durable, long-lasting finish.

FARM AND IMPLEMENT
Meets manufacturers' specs for farm, vehicle, maintenance, and lawn and garden equipment.

CAMOUFLAGE
Bonds to most plastics. No sanding or priming required.

WORKABLE FIXATIVE
Eliminates smudging, wrinkling, and gloss on paper, posters, signs. Dries in seconds to a clear, durable finish.

TRUE SEAL™ PROTECTIVE RUBBERIZED COATING
Dries to a flexible, rubberized seal. Stops leaks by filling cracks in openings.

NONSKID
Durable, skid-resistant paint makes surfaces safer.

GLOWZ® GLOW-IN-THE-DARK
Finish recharges with exposure to light.



No. J1466



No. J1455

▶CHOOSE: Color	Paint and Primer Finish	Net Weight	Item No.
Appliance Epoxy			
Almond, Bisque, Black, White	Gloss	12 oz.	**J1478**
OSHA Paint			
Clover Safety Green, Safety Blue, Safety Orange, Safety Purple, Safety Red, Safety Yellow	Gloss	12 oz.	**J1466**
Metallic Paint			
Aluminum Metallic	Metallic	12 oz.	**38EM95**
Bright Silver, Chrome Aluminum, Dull Aluminum, Silver Metallic, Brass Metallic, Bright Gold, Copper Metallic, Gold Metallic	Metallic, Gloss	11 oz.	**J1465**
High-Heat Paint			
Black, White	Flat	12 oz.	**J1462**
Fluorescent Paint			
Cerise, Green, Lemon Yellow, Red Orange, Yellow Orange	Gloss	11 oz.	**J1460**
Crystal Clear Acrylic Coating			
Clear, Crystal Clear	Gloss	11 oz.	**J1459**
Daisy Yellow	Gloss	12 oz.	**54TG83**
Chalkboard Paint			
Black	Flat	12 oz.	**54TJ63**
Farm and Implement			
John Deere Green, Allis Chalmers Orange, Ford Blue, International Harvester Red, John Deere Yellow, Kubota Orange, Massey Ferguson Red, Yellow, Old Equipment Yellow, School Bus Yellow	High Gloss	12 oz.	**J1455**
Camouflage			
Black, Brown, Khaki, Olive, Sand, Light Green	Ultra-Flat	11 oz.	**J1454**
Workable Fixative			
Clear	Gloss	11 oz.	**38EP62**
True Seal™ Protective Rubberized Coating			
Black	—	12 oz.	**38EP61**
NonSkid			
Clear	Gloss	11 oz.	**38EN52**
Glowz® Glow In the Dark			
Green, White	Gloss	6 oz.	**J1461**

KRYLON INDUSTRIAL

Quik-Mark™ Inverted Marking Paint

High solids formulation for bold, bright, visible markings. Penetrates and adheres to hot and cold surfaces. Convenient Spray-Thru cap and nonclogging spray tip. TALLBOY™ products provide 29% more paint for increasing productivity with less downtime.



No. J1444

▶CHOOSE: Color	Paint and Primer Surface Material	Net Weight	Item No.
Solvent-Based			
Clear	Asphalt, Brick, Concrete, Grass, Gravel	15 oz.	**54TH63**
APWA Red, Safety Red, Neon Green, Fluorescent Purple, APWA Blue, Hot Pink, Green, Silver, Fluorescent Orange, Blue, Bright Orange, High Visibility Yellow, Safety Yellow, Utility White, Red/Orange, Black	Asphalt, Brick, Concrete, Grass, Gravel	17 oz.	**J1443**
Brilliant White, Red, Fluorescent Orange, High Visibility Yellow, Utility White, Red/Orange	Asphalt, Brick, Concrete, Grass, Gravel	22 oz.	**J1444**
Water-Based			
Green, Brilliant Red, Blue, Brilliant White, Orange, APWA Utility Yellow, Clear, Fluorescent Caution Safety Blue, Fluorescent Orange, Fluorescent Pink, Fluorescent Purple, Fluorescent Red/Orange, Fluorescent Safety Green, Fluorescent Safety Red, High Visibility Yellow	Asphalt, Brick, Concrete, Grass, Gravel	17 oz.	**J1446**
Utility Yellow, Brilliant Red, Fluorescent Pink, Fluorescent Orange	Asphalt, Brick, Concrete, Grass, Gravel	22 oz.	**J1444**

KRYLON INDUSTRIAL

Quik-Mark™ Special Purpose Overhead Marking Paint

Paint sprays in an upright position. Penetrates and adheres to uneven surfaces. It's the easiest way to mark overhead surfaces in mines, excavation sites, underground utilities and bridges.



▶CHOOSE: Color	Paint and Primer Surface Material	Net Weight	Item No.
Water-Based			
Fluorescent Green, Fluorescent Orange, Fluorescent Red, Fluorescent Red/Orange	Concrete	17 oz.	**J1442**

Clear Floor Markings for Safer Facility

Clearly mark your facility with Marking tape and floor marking paints, to designate safe pathways for workers and call attention to potentially hazardous areas.

Create separate lanes for motorized vehicles and foot traffic; mark off safe distances from dangerous machinery; and even call out high-light, high-noise, and other hazardous areas.

Grainger has the marking paints, tapes, and tools that you need to help keep your workers safe, and your business in compliance. See our full selection at Grainger.com®.





No. 5H915

RUST-OLEUM INDUSTRIAL BRANDS

High Performance Inverted Marking Paints

- V2300 system
- Dry time: 5 min.
- Coverage: 300 to 350 linear ft./1-1/2" strip

Premium paint withstands higher-traffic applications.

Color	Net Wt.	Item No.
Alert Orange	15 oz.	5H914
Caution Blue	15 oz.	5H911
Caution Yellow	15 oz.	5H913
Clear	15 oz.	1PTH3
Fluorescent Green	15 oz.	4CH78
Fluorescent Orange	15 oz.	6A378
Fluorescent Red-Orange	15 oz.	5H915
High Visibility Yellow	15 oz.	5H912
Safety Red	15 oz.	5H916
White	15 oz.	5H917



No. H7170

RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Construction Marking Paint Aerosol

- M1400 system
- Dry time: 5 min.
- Coverage: 400 linear ft./2" strip

Water-based formula sprays at any angle: upright, horizontal, or inverted. Provide bold, easy-to-see markings.

▶CHOOSE: Color	Net Wt.	Item No.
Caution Blue, Clear, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Fluorescent Red Orange, High Visibility Yellow, Safety Red, White	15 oz.	H7170



No. 6KN91



No. 6KP33

RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Precision Marking Paints

- Dry time: 1 to 2 hr.
- Coverage: 600 to 700 linear ft./2" strip

Precision Line® spray tip provides fast-drying, highly visible markings. VOC/MIR compliant. USDA acceptable.

M1600 System—Solvent-based markings last 3 to 6 months when undisturbed.

M1800 System—Water-based markings last 1 to 3 months when undisturbed.

Description	Net Wt.	Item No.
M1600 System		
Alert Orange/APWA Orange	17 oz.	6KP02
Black	17 oz.	6YH14
Caution Blue/APWA Blue	17 oz.	6KN88
Caution Yellow	17 oz.	6KN98
Clear	17 oz.	1PTH1
Fluorescent Green	17 oz.	6KN91
Fluorescent Orange	17 oz.	6KP06
Fluorescent Pink	17 oz.	6YH10
Fluorescent Purple	17 oz.	6YH13
Fluorescent Red	17 oz.	6YH11
Fluorescent Red-Orange	17 oz.	6KP07
High Visibility Yellow	17 oz.	6KN99
Safety Green/APWA Green	17 oz.	6YH09
Safety Red	17 oz.	6KP10
Silver	16 oz.	2GXC4
White	17 oz.	6KP32
M1800 System		
Alert Orange/APWA Orange	17 oz.	6KP37
Black	17 oz.	10Z860
Caution Blue/APWA Blue	17 oz.	6KP33
Clear	16 oz.	1PTH2
Fluorescent Blue	17 oz.	10Z861
Fluorescent Green	17 oz.	6KP34
Fluorescent Orange	17 oz.	6KP38
Fluorescent Pink	17 oz.	6YH17
Fluorescent Purple	17 oz.	6YH20
Fluorescent Red	17 oz.	6YH18
Fluorescent Red Orange	17 oz.	6KP39
High Visibility Yellow	17 oz.	6KP36
Safety Red	17 oz.	6KP40
White	17 oz.	6KP41



No. H7173

RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Inverted Marking Chalk

- MC1800 system
- Dry time: 10 min.
- Coverage: 500 to 530 linear ft./1-1/2" strip

For temporary markings that last up to 30 days. Easily removed with wire brush and water.

▶CHOOSE: Color	Net Wt.	Item No.
Blue, Green, Orange, Red, White, Yellow	17 oz.	H7173



No. 8C678

Aerosol Tree Marking Paints

AERVOE®

STANDARD

12-oz. fill lasts 3 to 5 years on tree.

WET COAT

Designed to be sprayed on wet wood/trees. 12-oz. fill lasts 3 to 5 years on tree.

PROFESSIONAL CHOICE

Include 360° spray nozzle and writing nozzle. 15-oz. fill lasts 6 to 8 years on tree. Can be sprayed on wet trees.

PROFESSIONAL CHOICE BOUNDARY

Include nozzle to band trees horizontally or vertically. 15-oz. fill lasts 6 to 8 years on tree.

Color	Item No.
Standard	
Blue	8TJ49
Fluorescent Pink	8PEV5
Fluorescent Red	9J117
Fluorescent Red-Orange	9G229
Orange	9J110
Red	8C678
White	8UN79
Yellow	8RRD9
Wet Coat	
Blue	8UN81
Orange	8CEA9
Red	8XZY5
Professional Choice	
Dark Blue	33MJ14
Fluorescent Blue	33MJ19
Fluorescent Green	33MJ20
Fluorescent Orange	33MJ17
Fluorescent Red	33MJ16
Fluorescent Yellow	33MJ18
Lite Blue	33MJ13
Orange	33MJ12
White	33MJ15
Professional Choice Boundary	
Orange	33MJ22
Red	33MJ21

Find Power Striping Machines on page 1628.

No. 6A938



RUST-OLEUM INDUSTRIAL BRANDS

High Performance Inverted Striping Paints

- 2300 system
- Dry time: 10 min.
- Coverage: Up to 800 linear ft./2" to 4" strip

Handle striping and zone marking in high-traffic areas. For interior and exterior use.

Color	Net Wt.	Item No.
Black	18 oz.	1F764
Blue	18 oz.	6A380
Red	18 oz.	6H084
White	18 oz.	6A939
Yellow	18 oz.	6A938

No. 6KP30



RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Inverted Striping Paints

- S1600 system
- Dry time: 10 min.
- Coverage: 150 linear ft./4" strip

General purpose, paints make crisp, straight lines. Ideal for marking aisles, lift truck routes, pallet positions, hazardous areas and commercial parking lots. Solvent-based formula resists smudging. Indoor/outdoor. VOC/MIR compliant.

Color	Net Wt.	Item No.
Black	18 oz.	6KP20
Red	18 oz.	6KP12
White	18 oz.	6KP30

No. 3BU13



RUST-OLEUM INDUSTRIAL BRANDS

Industrial Choice® Athletic Field Inverted Striping Paints

- AF1600 system
- Dry time: 30 min.
- Coverage: 100 to 200 linear ft./3" strip

Fast drying, water-based formula creates bright, crisp lines.

Color	Net Wt.	Item No.
Orange	17 oz.	3BU14
White	17 oz.	3BU13
Yellow	17 oz.	3BU15



No. 2ERK5



No. 4CY42



No. 6A379



No. 6A940



No. 6XZ50

RUST-OLEUM INDUSTRIAL BRANDS ROLATAPE PROFESSIONAL SERIES

Spray Can Handles, Paint Applicators and Striping Machines

Description	For Use With	Brand	Item No.
Spray Grip	Aerosol Spray Can	Rust-Oleum	2ERK5
Spray Comfort Grip	Aerosol Spray Can	Rust-Oleum	2ERK6
Marking Wand/Steel/Plastic	Rustoleum Marking Paint and Chalk	Rust-Oleum	6A379
Marking Wand/Aluminum/Plastic	Industrial Grade Paint	Rust-Oleum	21CJ78
Striping Wand/Plastic	Aerosol Cans	Rust-Oleum	32UT23
Marking Pistol	Rust-Oleum Inverted Marking Paint or Industrial Choice Precision-Line Inverted Marking Paint or Chalk	Rust-Oleum	4CY42
Striping Machine, For Use With AF1600 System	Industrial Choice Athletic Field Striping Paint to Apply Straight 3" to 6" Wide Lines	Rust-Oleum	4CY41
Striping Machine, For Use With S1600 System and 2300 System	Hard Hat and Industrial Choice Striping Paint, Aerosol Striping Paints to Apply Straight 2 to 4" Wide Lines	Rust-Oleum	6A940
ProMarker® Spoked Wheel w/Brake		Rolatape	6XZ50



No. 4YNX7
Yellow



No. 4YNX8
Yellow



No. 4YNY5
Yellow



No. 6GAN1
White



No. 3EHH9
White



No. 3EHH6
Yellow



No. 3EHH7
Yellow



No. 3EHJ6
Toulene

Traffic and Zone Marking Paint

Low VOC solvent-based marking paints are made with acetone. For striping and re-striping new or old asphalt, concrete, and brick.

APPLICATION METHOD: Brush, roller or spray machine

SURFACES: Asphalt, concrete, and brick

USES: For parking lots, fire lanes, centerlines, crosswalks, warehouse aisles, bike lanes, curbs and medians, roads and highways, handicap parking, airport runways, running tracks, and arrows and markings

ALKYD

Heavy-duty, high-viscosity coating is similar to chlorinated without the added rubber.

CHLORINATED RUBBER

Made with real rubber for superior wear resistance.

FAST-DRY LATEX ACRYLIC

Provide quick turnaround and drive-on time.

LATEX ACRYLIC

Water-based formula for easy cleanup with mild soap and water. Safe for freshly seal-coated surfaces, new or old asphalt, and concrete.

CLEAR ACRYLIC LATEX SEALER

Waterborne base sealer with semi-gloss finish, extends life of painted lines and can be used to seal new and old concrete. Low voc.

TOLUENE SOLVENT PAINT THINNER

For use with alkyd and chlorinated-based zone marking paints.

DRY TIME AND COVERAGE

	Alkyd	Chlorinated	Fast-Dry Latex	Latex	Sealer
Dry Time:	1 to 2 hr.	30 mins.	1 hr.	1 to 2 hr.	8 hr.
Coverage (Linear ft. per 4" Stripe):	420	420	420	420	480 to 520†

† Measured in square-feet.

Color	1 GAL. Item No.	5 GAL. Item No.
Alkyd Traffic Marking Paint		
Yellow	3EHG1	3EHG2
Bright Red	3EHH4	3EHH5
Handicap Blue	3EHG9	3EHH1
White	3EHG3	3EHG4
Alkyd Traffic Marking Paint, Low VOC		
Blue	4YNY6	4YNY7
Red	4YNZ1	4YNZ2
White	4YNX9	4YNY1
Yellow	4YNX7	4YNX8
Chlorinated Rubber Traffic Marking Paint		
Black	3EHF8	3EHF9
White	3EHG5	3EHG6
Yellow	3EHG7	3EHG8
Chlorinated Rubber Traffic Marking Paint, Low VOC		
Black	4YNY8	4YNY9
White	4YNY2	4YNY3
Yellow	4YNY4	4YNY5
Fast-Dry Latex Acrylic Traffic Marking Paint		
Black	—	6GAN3
Green	—	6GAN6
Handicap Blue	—	6GAN4
Red	—	6GAN5
White	—	6GAN1
Yellow	—	6GAN2
Latex Acrylic Zone Marking Paint		
Black	3EHJ3	3EHJ4
Handicap Blue	3EHH2	3EHH3
Red	3EHJ1	3EHJ2
White	3EHH8	3EHH9
Yellow	3EHH6	3EHH7
Clear Acrylic Latex Sealer		
Clear Acrylic Latex Sealer	—	4YNZ3
Paint Thinner		
Toluene Solvent Paint Thinner	—	3EHJ6



No. 34UL59

Traffic Zone and Striping Paint

RUST-OLEUM INDUSTRIAL BRANDS

- 2300 System
- 1-gal.
- VOC <100 g/L

Water-based acrylic coating is ideal for large striping jobs including parking lots, stadiums, and curbs.

APPLICATION METHOD: Brush, roller, bulk striping machine

SURFACES: Interior/exterior, old/new asphalt, concrete, and grass

USES: Commercial parking lots, stadiums, or athletic facilities

DRY TIME AND COVERAGE

	FLAT	SEMI-GLOSS
Dry Time (For Full Traffic):	4 hrs.	4 hrs.
Coverage (Linear ft. per 4" Stripe):	690	450

Color	Item No.
Flat	
White	3XH15
Black	3AEH8
Yellow	3XH13
Red	2RNA9
Blue	4KP51
Semi-Gloss	
White	34UL59
Black	34UL63
Yellow	34UL60
Red	34UL62
Blue	34UL61
Bike Lane Green	34UL64



TITAN

No. 35YL16



GRACO

No. 53JT67

Looking for more Line Striper Machines?

We have even more Line Striper Machines on pages 1627 and 1628 and on Grainger.com®



No. 35XU23

DUMOND
Architectural, Industrial and Marine Solutions

Paint Removers

Water-based formula.

Peel Away® 1—Heavy-duty remover safely removes up to 30 coats of oil-based lead paints in a single application. Nonflammable and nontoxic. For wood, brick, stone, and metal.

Laminated Peel Away® Paper—Controls lead-dust dispersal on historic restoration and lead remediation projects by adding containment of lead-based paints and hazardous materials.

Citri-Lize™—Reduces the pH of surface being stripped for good adhesion of primer/paint.

Size	Item No.
Peel Away® 1	
1¼ gal.	39C309
5 gal.	39C310
Laminated Peel Away® Paper	
3 x 3 ft. Paper, 10 PK	39C317
13" x 300 ft. Paper, Roll	39C319
Citri-Lize™ Neutralizer	
4 oz. Bag	39C313
8 oz. Bag	39C314
pH Surface Test Kits	
Complete Paint Removal Test Kit	35XU23
15 Test Strips and Color Chart	39C361
Smart Strip™	
1 qt.	39C331
1 gal.	39C332
5 gal.	39C333
Smart Strip™ Pro	
5 gal.	39C334

pH Surface Test Kit—After surface has been stripped, rinsed, and neutralized, it should be left to dry for a week. When the surface is ready, use this kit to test pH levels. 4 easy steps.

Complete Paint Removal Test Kit—Includes 4 sample pints, 3 chip brushes, 3" plastic scraper and 3 sheets of laminated paper.

Smart Strip™—Advanced remover can remove up to 15 coats of virtually any coating from interior and exterior surfaces. Formulated without methylene chloride and is noncarcinogenic, nontoxic, and noncaustic. Odor-free, 100% biodegradable with pH neutral and has zero VOCs.

Smart Strip™ Pro—Effectively removes multiple coatings of oil-based, water-based, acrylics, varnishes, epoxies, urethanes, elastomerics, and lead paint from any interior or exterior surface. Formulated without methylene chloride and is noncarcinogenic, noncaustic, and nonflammable. Low odor and VOC.



No. 52JC16



No. 49XF28

Graffiti Removers

SURFACES: Road signs, transit vehicles, lockers, desks, glass, mail boxes, and playground equipment

Lift Away®—Water-based formula quickly and safely removes most graffiti from nonporous and most smooth surfaces in one application. Biodegradable.

Wipe Out®—Dissolves graffiti within 15 to 30 min. Easily and effectively removes graffiti from porous and unpainted masonry surfaces in single application.

All-Purpose Remover—Removes graffiti and dried paint in one easy step. Nontoxic and nonflammable.

Watch Dog
Graffiti Control Products

DUMOND
Architectural, Industrial and Marine Solutions

Size	Brand	Item No.
Lift Away®		
16 oz.	Watch Dog	35XU24
22 oz.	Dumond	52JC16
5 gal.	Dumond	39C336
Wipe Out®		
0.5 gal.	Dumond	49XF28
5 gal.	Dumond	39C340
All Purpose Remover		
22 oz.	Dumond	39C341



No. 5KPY2



No. 5KPY3



No. 5KPY4

sunnyside

Specialty Chemicals

Description	Size	Item No.
Lacquer Thinner	1 gal.	5KPY2
Lacquer Thinner, 24g/L VOC	1 gal.	12H845
Mineral Spirits	1 gal.	5KPY3
Xylol	1 gal.	5KPY4
0 VOC Xylene/Toluene Replacement Solvent	1 gal.	12H847
Denatured Alcohol	1 qt.	20K853
Denatured Alcohol	1 gal.	20K854
Low Odor Mineral Spirits	5 gal.	44ZU14
Cleanup Solvent	1 qt.	44ZU20
Muriatic Acid	1 gal.	44ZU25



No. 44ZU25

No. 3VYZ8





No. 3VZA3

SUPPLIER DIVERSITY

X-SORB ROCK SOLID

Paint Hardener

Non-toxic paint hardener solidifies leftover latex and acrylic paints and stains. Provides easy and safe cleanup for an environmentally-friendly disposal.

Description	Size	Item No.
Hardens up to 3 gal.	1 lb.	3VYZ8
Hardens up to 25 gal.	15 lb.	3VZA3
Hardens up to 38 gal.	23 lb.	21YX75



No. 21YX75

No. 3JR74



RUST-OLEUM
INDUSTRIAL BRANDS

Paint Thinners

Description	VOC Content	Size	Item No.
333 VOC Compliant Thinner for Alkyds and Epoxies	0 g/L	1 gal.	3JR74
315 Thinner for Lacquer and One-Part Epoxies	VOC Free	1 gal.	426J32
633 Alkyd Thinner for Brush Applications	771g/L	1 gal.	5H887
641 Alkyd Thinner for Spray Applications	758g/L	1 gal.	5A261
160 Thinner for Epoxies	884g/L	1 gal.	6A934
160 Thinner for Epoxies	884g/L	5 gal.	6H217
165 Immersion Thinner	831g/L	1 gal.	6H076
190 Urethane Thinner	869g/L	1 gal.	5H949


PRO-LINE® Fine


PRO-LINE® HP


PRO-LINE® HT


PRO-LINE® WP


PRO-LINE® XT


PRO-MAX®


VALVE ACTION®

Markal® Paint Markers

Permanent liquid paint markers. To choose your "Marking Tool Surface Material" go to Grainger.com®, enter "Item No." and use the filter on the left side.

PRO-LINE® Fine—Marks on small surfaces and and has a valve-actuated tip.

PRO-LINE® HP—Penetrates through oils and greases to dry quickly and leaves a bold mark.

PRO-LINE® HT—Fast-drying paint locks in colors and retains some colors that can reach high temperatures, providing legible marks up to 2,200°F.

PRO-LINE® WP—Fast-drying formula resists spreading and running when in contact with water or water-based fluids to leave a bright mark.

PRO-LINE® XT—Marks on rusty, rough, and dirty surfaces.

PRO-MAX®—Formula dries quickly and leaves bold marks.

Valve Action®—Low chloride and xylene-free formula.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
PRO-LINE® Fine	B, G, LTG, O, W	Medium	0°F	150°F	**E4354**	1
	BK, R, Y	Fine	0°F	150°F	**E4354**	1
PRO-LINE® HP	B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, S, W, Y	Medium	-50°F	150°F	**H4992**	1
PRO-LINE® HT	B	Medium	-50°F	2000°F	**J7225**	1
	BK	Medium	-50°F	2200°F	**J7225**	1
	W, Y	Medium	-50°F	2100°F	**J7225**	1
PRO-LINE® WP	B, BK, G, O, R, S, W, Y	Medium	-50°F	150°F	**H4924**	1
PRO-LINE® XT	B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, S, W, Y	Medium	-50°F	150°F	**H4993**	1
PRO-MAX®	B, BK, O, R, W, Y	Medium	0°F	150°F	**E4355**	1
Valve Action®	AL, B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, W, Y	Medium	-50°F	150°F	**F8274**	1
	FLG, FLO, FLP, FLY	Medium	-50°F	150°F	**H4925**	1

**** AL = aluminum, B = blue, BK = black, BN = brown, FLG = fluorescent green, FLO = fluorescent orange, FLP = fluorescent pink, FLY = fluorescent yellow, G = green, GO = gold, LTB = light blue, LTG = light green, O = orange, P = pink, PL = purple, R = red, S = silver, W = white, Y = yellow.***


BRITE-MARK®


RINZ OFF®


SUDZ OFF®

Dykem® Paint Markers

Xylene-free formula.

BRITE-MARK®—Quick-drying, oil-based permanent paint marks on most indoor and outdoor conditions. Valve-actuated fiber tip.

RINZ OFF® and SUDZ OFF®—Temporary ink markers are for writing on untreated and unpainted surfaces which require removable ink. RINZ OFF ink is removable with water and SUDZ OFF ink can be removed with a detergent of pH 10 or higher.

Trade Name	▶CHOOSE: Color*	Marking Tool Surface Material	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
BRITE-MARK®	B, BK, BN, G, GO, LTB, O, P, R, S, VT, W, Y	Concrete, Fabric, Glass, Metal, Plastic, Rubber, Stone, Wood	Medium	0°F	350°F	**D6091**	1
RINZ OFF®	B, G, R, Y	Metal	Medium	-20°F	150°F	**J7223**	1
SUDZ OFF®	BK, G, W, Y		Medium	-20°F	150°F	**J7223**	1

**** B = blue, BK = black, BN = brown, G = green, GO = gold, LTB = light blue, O = orange, P = pink, R = red, S = silver, VT = violet, W = white, Y = yellow.***

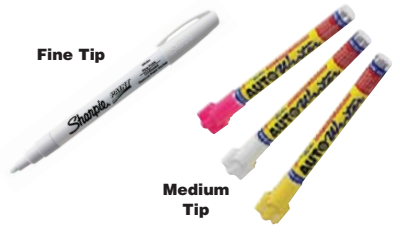


uni®PAINT Paint Markers

Oil-based permanent markers perform well on virtually any surfaces including glass, metal, stone, and wood.

Trade Name	▶CHOOSE: Color*	Item No.	Pkg. Qty.
uni®PAINT	B, BK, R, W, Y	**D7946**	12

**** B = blue, BK = black, R = red, W = white, Y = yellow.***



GRAINGER APPROVED

GA Paint Markers

Removable formula is ideal for use on auto body panels and windshields. Water-soluble marks are easy to remove with wet cloth.

Color	Marker Type	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
White	Permanent	Fine	**25UW96**	1
Pink	Removable	Medium	**3MHA2**	4
White	Removable	Medium	**3MHA3**	4
Yellow	Removable	Medium	**3MHA4**	4


B® Paintstik®


F® Paintstik®


Quik Stik® Mini


Quik Stik® Large


Quik Stik® Medium


WS-3/8® Painstik®

Markal® Paint Crayons

To choose your "Marking Tool Surface Material" go to Grainger.com® and enter in "Item No." and scroll down.

B® Paintstik®—Marks through oily, icy, wet, dry, or cold surfaces. Lead-free. Nontoxic.

F® Paintstik® —Fluorescent formula produces high-visibility marks.

Quik Stik® Mini—Twist-up crayons mark on smooth or rough surfaces. Fast drying.

WS-3/8® Paintstik®—Water-soluble, fine-line marks are easy to remove. For nonporous surfaces.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
B® Paintstik®	B, BK, BN, G, GY, O, P, PL, R, W, Y	Large	-50°F	150°F	**H7745**	12
F® Paintstik®	FLB, FLG, FLO, FLR, FLY	Large	-50°F	150°F	**F2784**	12
Quik Stik® Mini	BK, R, W, Y	Medium	0°F	392°F	**H4929**	1
Quik Stik®	FLG, FLO, , FLY	Medium	0°F	392°F	**J5671**	1
Quik Stik®	B, BK, G, O, PL, R, W, Y	Large	0°F	392°F	**F2799**	1
WS-3/8® Paintstik®	BK, R, W, Y	Medium	-50°F	150°F	**H7742**	12

**** B = blue, BK = black, BN = brown, FLB = fluorescent blue, FLG = fluorescent green, FLO = fluorescent orange, FLP = fluorescent pink, FLR = fluorescent red, FLY = fluorescent yellow, G = green, GY = gray, O = orange, P = pink, PL = purple, R = red, W = white, Y = yellow.***



Sharpie® China Markers

Use to mark on many porous and nonporous surfaces including glass, metal and plastic. Water-soluble. Erasable with damp cloth. Peel-off paper covering; no sharpening required.

▶CHOOSE: Color*	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
BK, R, Y, W	Medium	**F8722**	12

**** BK = black, R = red, W = white, Y = yellow.***



Dixon Phano® China Markers

Produce bright bold strokes on most porous or non-porous surfaces including glass, plastic, film, paper, metal, and rubber. Wipe clean. Paper wrapped with tear strings for sharpening.

Trade Name	Color	Marking Tool Tip Size Shape	Item No.	Pkg. Qty.
Phano® China Marker	Black	Bullet	**35X991**	12
	Black (Thin Lead)	Bullet	**35Y042**	12
	Blue	Bullet	**35Y040**	12
	Green	Bullet	**35Y041**	12
	Red	Bullet	**35X992**	12
	White	Bullet	**35X993**	12
	Yellow	Bullet	**35X994**	12



CROSS CHECK™ Plus



HIGH PURITY 44



HIGH TEMP 44



SAFE-MARK



TEXPEN®



TUFF GUY®

Dykem® Industrial Markers

DYKEM Brand

- Permanent formula
- To choose your "Marking Tool Surface Material" go to Grainger.com®, enter "Item No." and use the filter on the left side.

CROSS CHECK™ —Highly visible marks indicate loose nuts, bolts, fasteners, and assemblies. Color can be viewed in ambient, fluorescent, and ultraviolet light.

CROSS CHECK™ Plus—Provides enhanced visibility in aviation maintenance applications.

HIGH PURITY 44—Valve-action tip allows tip to be re-inked. For surfaces where degradation or contamination is a concern.

HIGH TEMP 44—For marking surfaces exposed to high temperatures. Valve-action tip allows tip to be re-inked.

SAFE-MARK—NSF Certified for marking food contact surfaces used in processing, transporting, or holding food products. Valve-actuated locked nib tip.

TEXPEN®—Stainless steel ball tip allows medium and broad marks and writes through grease, oil, and underwater.

TUFF GUY®—Makes clear, crisp marks and is resistant to most coolants and cutting fluids, degreasing baths, and other industrial chemicals.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
CROSS CHECK™	B, G, O, R, Y	Medium	-20°F	400°F	G8789	1
	GY, P, W	—	0°F	400°F		1
CROSS CHECK™ Plus	B	Medium	120°F	-4°F	451G25	1
	P	Medium	0°F	400°F	53DZ13	1
	Y	Medium	0°F	400°F	53DZ12	1
HIGH PURITY 44	B, BK, R, W, Y	Medium	-20°F	150°F	J7227	1
HIGH TEMP 44	B, BK, G, W	Medium	—	2000°F	J7226	1
	Y	Medium	—	900°F		1
SAFE-MARK	BK	Medium	-20°F	475°F	6RRF2	1
TEXPEN®	B, BK, G, O, R, W, Y	Medium	0°F	450°F	D6087	1
	BK, R, W, Y	Fine	0°F	450°F	G8786	1
TUFF GUY®	B, BK, G, W	Medium	-20°F	150°F	G8788	1
	R, Y	Medium	0°F	300°F		1

** B = blue, BK = black, G = green, GY = gray, O = orange, P = pink, R = red, W = white, Y = yellow.*



DURA-INK® 20



DURA-INK® 25



DURA-INK® 200

DURA-INK® Industrial Markers

DURA-INK®

Permanent ink marks on surfaces such as cardboard, glass, metal, plastic, and wood. No. H5002 is retractable.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
DURA-INK® 20	BK, R	Fine	—	—	H5002	1
DURA-INK® 25	BK	Medium	0°F	150°F	2F928	1
DURA-INK® 200	B, BK, G, R	Extra Large	0°F	—	E5675	1

** B = blue, BK = black, G = green, R = red.*



GA Industrial Markers

GA GRAINGER APPROVED

Work well on most surfaces including cardboard, ceramic, glass, metal, paper, plastic, rubber, and wood.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Max. Temp.	Item No.	Pkg. Qty.
Industrial Marker	B, BK, G, O, R, W, Y	Jumbo	95°F	G7375	1

** B = blue, BK = black, G = green, O = orange, R = red, W = white, Y = yellow.*



Fine Tip
No. 4AZL1



Chisel Tip
No. 1JU73



Jumbo Tip
No. 2LTH3



Medium Tip
No. 5TCE8

Sharpie® Industrial Markers

Sharpie

Quick-drying, fade- and water-resistant.

Industrial—Withstands extreme heat without fading. Creates detailed lines on metal, glass, film, and plastic.

King Size—Creates clear lines on plastic, wood, stone, foil, metal, corrugate, and leather. For moist, wet, and oily surfaces.

Magnum—Jumbo tip produces clear lines on plastic, wood, stone, foil, metal, corrugate and leather. For moist, wet, and oily surfaces.

Professional—Works well on wet, oily, and abrasive surfaces. For labeling tools and marking concrete or equipment.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
Industrial	BK	Fine	4AZL1	12
Magnum	B	Jumbo	2LTH4	12
Magnum	BK	Jumbo	9LW82	12
Magnum	R	Jumbo	2LTH3	12
Professional	BK	Medium	5TCE8	12
Single-Color Markers	BK	Chisel	1JU73	1

** B = blue, BK = black, R = red.*



DURA-INK® 5



DURA-INK® 15



DURA-INK® 55



DURA-INK® 80



DURA-INK® WashAway™



Red-Riter®



Silver-Streak®

Markal® Industrial Markers

Markal

DURA-INK® 5—Extended micro tip is for marking through drill holes, mounting brackets, and hard-to-reach areas. For use on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK® 15—Fine bullet tip is good for layout work and parts identification. Works well on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK® 55—Chisel tip produces fine and broad markings. For use on cardboard, glass, metal, plastic, and wood.

DURA-INK® 80—Valve-actuated tip provides on-demand ink for smooth, continuous use. For use on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK® WashAway™—For temporary markings and removes easily with dry rag, towel, or eraser. Use on metals and glass.

Red-Riter® and Silver-Streak®—Create torch-resistant markings that will not rub, burn, or blow off. For metal layout and fabrication.

Trade Name	▶CHOOSE: Color*	Marker Type	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
DURA-INK® 5	BK	Permanent	Fine	45CG95	1
DURA-INK® 15	B, BK, G, R, S	Permanent	Fine	F2808	1
DURA-INK® 55	B, BK, G, R	Permanent	Fine	J7230	1
DURA-INK® 80	BK	Permanent	Medium	3LKJ9	1
DURA-INK® Washaway™	B, G, P	Removable	Fine	J7229	1
Red-Riter® Welders Pencil	R	Permanent	Fine	32PK95	12
Silver-Streak® Metal Marker	S	Removable	Medium	1XEG4	1

** B = blue, BK = black, G = green, P = pink, R = red, S = silver.*



No. 1TTX2

PREMIER GA GRAINGER APPROVED

Chip Paint Brushes

Chip Paint Brushes are generally disposable brushes for touch ups or one-time use projects. Besides paints and coatings, the durable brushes with China bristles will hold up to epoxies, glues, resins, stains, paint removers, cleaners, and oils. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Brand	Item No.
All Paints and Coatings							
½"	¼"	1½"	Hog Hair	Soft	Wood	Premier	**52CN23**
1"	5/16"	1½"	China Hair	Soft	Unfinished Wood	GA	**1TTX1**
2"	5/16"	1½"	China Hair	Soft	Unfinished Wood	GA	**1TTX2**
2½"	⅜"	1½"	China Hair	Soft	Unfinished Wood	GA	**1TTX3**
3"	⅜"	1½"	China Hair	Soft	Unfinished Wood	GA	**1TTX4**
4"	⅜"	1¾"	China Hair	Soft	Unfinished Wood	GA	**5CJG9**



No. 14C531

GA GRAINGER APPROVED WOOSTER Purdy PROFESSIONAL PAINTING TOOLS

Angle Sash Paint Brushes

Use Angle Sash Paint Brushes, or trim brushes, to paint trim and smaller, detailed areas. The end of the bristles (known as the sash) are trimmed at an angle or angular. These brushes are used for cutting in the more delicate trim work. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Brand	Item No.
All Paints and Coatings							
1"	⅜"	2"	Polyester	Firm	Sealed Wood	GA	**1XRL1**
1"	⅜"	2 3/16"	Synthetic Bristle	Soft	Plastic	Wooster	**38UX44**
1½"	½"	2 7/16"	Polyester/Nylon	Firm	Hardwood	Purdy	**14C530**
2"	9/16"	2 11/16"	Polyester/Nylon	Firm	Plastic	Wooster	**3UW38**
2½"	⅝"	2 15/16"	Nylon	Soft	Sealed Maple Wood	Wooster	**6KD64**
2½"	⅞"	3 7/16"	Polyester/Nylon	Firm	Sealed Maple Wood	Wooster	**3UW42**
3"	⅝"	3 3/16"	Polyester/Nylon	Firm	Hardwood	Purdy	**14C531**
3"	⅞"	3 7/16"	Polyester/Nylon	Firm	Sealed Maple Wood	Wooster	**3UW43**



No. 33PP83

osborn

Round Sash Paint Brushes

Round Sash Paint Brushes, or round trim brushes, have blunt, tapered tips with soft edges. Ideal for painting small trim areas or for a variety of faux and decorative finishes. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Handle Material	Item No.
All Paints and Coatings					
#14	⅞ in	2 ⅛ in	China Hair	Wood	**33PP78**
#4	1 1/16 in	1 ⅞ in	China Hair	Plastic	**33PP82**
#8	1 5/16 in	2 ⅞ in	Nylon	Wood	**33PP77**
#8	1 5/16 in	2 ⅜ in	China Hair	Plastic	**33PP83**



No. 1XRJ5

osborn GA GRAINGER APPROVED WOOSTER MICHIGAN BRUSH MANUFACTURING COMPANY, INC.

Flat Sash Paint Brushes

Use Flat Sash Paint Brushes, or trim brushes, to paint trim and smaller, detailed areas. The end of the bristles (known as the sash) are square, or flat, for cutting in the more delicate trim work. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Brand	Item No.
All Paints and Coatings							
½"	¼"	1 1/8"	Hog Hair	Soft	Lacquered Walnut	Osborn	**33PP65**
1½"	9/16"	2 3/16"	Polyester	Soft	Plastic	GA	**1XRJ5**
2"	9/16"	2 7/16"	Polyester	Soft	Plastic	GA	**1XRJ6**
2½"	⅞"	2 15/16"	Polyester/ Nylon	Firm	Sealed Maple Wood	Wooster	**3UW45**
3"	1 1/16"	2 11/16"	Polyester	Soft	Plastic	GA	**1XRJ7**
4"	⅞"	3 7/16"	Polyester	Soft	Plastic	GA	**1XRJ8**
4"	⅞"	3 11/16"	Polyester/ Nylon	Firm	Plastic	Wooster	**3UW36**
4¾"	1⅛"	2¾"	China Hair	Firm	Threaded Hardwood	Wooster	**14A036**
5½"	1½"	3¼"	China Hair	Firm	Threaded Hardwood	Wooster	**14A037**
6"	9/16"	2 15/16"	China Hair	Firm	Sealed Maple Wood	Wooster	**38UX31**
Latex Based							
2"	½"	2 3/16"	Polyester	Soft	Plastic	GA	**1XRJ3**
3"	9/16"	2 7/16"	Polyester	Soft	Plastic	GA	**1XRJ1**
4"	1 1/16"	2 15/16"	Polyester	Soft	Plastic	GA	**1XRJ2**
Oil Based							
¼"	¼"	9/16"	Camel Hair	Soft	Wood	Michigan Brush	**39AR72**
1"	½"	2 3/16"	Polyester	Soft	Plastic	GA	**1XRH4**
2"	½"	2 3/16"	China Hair	Soft	Plastic	Wooster	**3UW22**
3"	1 1/16"	3 3/16"	Polyester	Soft	Plastic	GA	**1XRH6**
4"	⅞"	3 11/16"	Polyester	Soft	Plastic	GA	**1XRH7**



No. 38UX23

osborn WOOSTER

Wall Paint Brushes

Wall Paint Brushes, or general-purpose paint brushes, are large, flat brushes for painting bigger interior or exterior surfaces, including walls, ceilings, floors, chimneys, and more. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Brand	Item No.
All Paints and Coatings							
2"	7/16"	2 1/4"	Polyester	Firm	Plastic	Osborn	**33PP74**
3"	9/16"	2 15/16"	China Hair	Soft	Sealed Maple Wood	Wooster	**3UW17**
4"	⅞"	3 7/16"	Polyester	Firm	Plastic	Wooster	**38UX23**



No. 2AJT1



No. 2AJR4

WOOSTER

Artist Paint Brushes

Artist Paint Brushes are finer paint brushes for artist-quality lettering and detailing. Choose from a variety of smaller brush sizes. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Item No.
Oil Based						
(1) Each ½" Flat Bristle, Camel #2 Round, #4 Round, ¼" Flat, ½" Flat	(1) 2.7mm (2) 2.0mm, (2) 4.0mm	10.0mm, 13.0mm, 19.0mm, 24.0mm, 25.5mm	Camel Hair	Soft	Wood	**2AJT1**
½"	4mm	25.5mm	Ox Hair	Soft	Plastic	**2AJR4**



★GA GRAINGER APPROVED

No. 6NCE8

Bent Radiator Paint Brushes

Bent Radiator Paint Brushes are specifically shaped to paint hard-to-reach areas behind pipes, furniture, and other fixtures. The sash is positioned at a 45° angle on a long handle. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Item No.
All Paint & Coatings						
1⅜"	7/16"	1 13/16"	Synthetic Bristle	Soft	Wood	**6NCE8**
2½"	½"	2¼"	Synthetic Bristle	Soft	Wood	**6NCF0**
2⅞"	½"	2¼"	Synthetic Bristle	Soft	Wood	**6NCF1**
2"	7/16"	2 1/16"	Synthetic Bristle	Soft	Wood	**6NCE9**
2"	9/16"	2 3/16"	China Hair	Soft	Unfinished Wood	**1TTV9**
3"	11/16"	2 3/16"	China Hair	Soft	Unfinished Wood	**1TTW1**



No. 39AR80

MICHIGAN BRUSH MANUFACTURING COMPANY, INC.

Paddle Paint Brushes

Ideal for painting both broad marks and edges. Ideal for spreading thick colors over large surface areas. Makes a great finishing brush for faux finishing projects. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Item No.
All Paints and Coatings						
⅝" x 1"	⅝"	1"	Hog Hair	Firm	Wood	**39AR79**
¾"	¾"	1⅜"	Hog Hair	Firm	Wood	**39AR80**



No. 33PP84

Oval Sash Paint Brushes

osborn

Oval Sash Paint Brushes, or oval trim brushes, have thin, round bristles and produce a soft, fuller edge. Great for precise cutting and edging for trim and contoured surfaces. Commonly used on window frames, edges, and other narrow areas. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Item No.
All Paints and Coatings						
#2	½"	1⅝"	China Hair	Soft	Plastic	**33PP84**
Oil Based						
#2	½"	1⅝"	China Hair	Soft	Wood	**33PP81**



No. 39UU55

Stencil Paint Brushes

WOOSTER

Stencil Paint Brushes are designed with stiff, densely packed bristles for smooth, complete coverage. Short, rounded handles cradle in the palm of the hand while dapping paint or ink through a stencil. See Grainger.com® for a full assortment of brushes.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Item No.
All Paints and Coatings						
#6	9/16"	2 15/16"	China Hair	Soft	Sealed Maple Wood	**38UX55**
#8	9/16"	2 15/16"	China Hair	Soft	Sealed Maple Wood	**39UU55**
#10	9/16"	2 15/16"	China Hair	Soft	Sealed Maple Wood	**39UU56**



No. 1XRK1

Foam Brushes

★GA GRAINGER APPROVED WOOSTER

Get smooth, even coverage with economical foam paint brushes. Foam paint brushes have handles like ordinary paint brushes, but the bristles are replaced with a dense foam head. Brushes are reusable or disposable.

Brush Size	Brush Thickness	Bristle Length	Bristle Material	Bristle Stiffness	Handle Material	Brand	Item No.
All Paints and Coatings							
(1) Each 1", 2", and 3"	9/16"	2⅝"	Foam	Soft	Unfinished Wood	GA	**1XRK4**
1"	9/16"	1½"	Polyurethane Foam	Firm	Wood	Wooster	**38UX04**
1"	9/16"	1⅞"	Foam	Soft	Unfinished Wood	GA	**1XRJ9**
2"	9/16"	2"	Polyurethane Foam	Firm	Wood	Wooster	**38UX05**
2"	9/16"	2⅝"	Foam	Soft	Unfinished Wood	GA	**1XRK1**
3"	9/16"	2"	Polyurethane Foam	Firm	Wood	Wooster	**38UX06**
3"	9/16"	2⅝"	Foam	Soft	Unfinished Wood	GA	**1XRK2**
4"	9/16"	1½"	Polyurethane Foam	Firm	Wood	Wooster	**39UU40**
4"	9/16"	2⅝"	Foam	Soft	Unfinished Wood	GA	**1XRK3**

Find these and other Purdy products on Grainger.com

Golden Eagle™ | Parrot™ | Ultra Finish®
Colossus™ | Lambskin

Find these and other Wooster products on Grainger.com

50/50™ | Cirrus™ | Painter's Solution™
American Contractor™ | Epoxy Glide™ | Super Doo-Z™
Candy Stripe™ | Lambswool 100™ | Super/Fab®
Painter's Choice™ | Zip™



No. 14C561



No. 54JF67



No. 54JF61

Purdy Paint Roller Covers

- Polypropylene core
- For use with water- and oil-based paints

White Dove™ - Features a high-density woven cover for a high quality, smooth, lint-free finish.

Marathon™ - High-density nylon polyester cover material. Durable roller cover for maintained performance over time. Last longer, paints further, and provides a smoother finish with less lint.

Contractor First™ - Medium-density nylon polyester cover material. Solid paint pick-up and release. Made of 100% medium-density material for good production and quick clean-up. Great for rolling many of today's higher viscosity oil-based finishes.

Surfaces	L	Nap	Item No.	Pkg. Qty.
White Dove™				
Paint Roller Cover				
Very Smooth to Smooth	9"	¼"	**14C561**	1
Smooth to Semi-Smooth	4"	⅜"	**19ZN48**	2
Smooth to Semi-Smooth	9"	⅜"	**6YAH7**	1
Smooth to Semi-Smooth	18"	⅜"	**14C562**	1
Semi-Rough	9"	¾"	**6YAH9**	1
Semi Smooth to Semi-Rough	4"	½"	**19ZN49**	2
Mini Paint Roller Cover				
Smooth to Semi-Smooth	4½"	⅜"	**14C540**	2
Semi Smooth to Semi-Rough	4½"	½"	**14C541**	2
Marathon™				
Paint Roller Cover				
Smooth to Semi-Smooth	9"	⅜"	**54JF67**	1
Smooth to Semi-Smooth	18"	⅜"	**54JF64**	1
Smooth to Semi-Smooth	4½"	⅜"	**54JF70**	2
Semi-Rough	9"	¾"	**54JF69**	1
Semi-Rough	18"	¾"	**54JF66**	1
Semi Smooth to Semi-Rough	9"	½"	**54JF68**	1
Semi Smooth to Semi-Rough	18"	½"	**54JF65**	1
Semi Smooth to Semi-Rough	4½"	½"	**54JF71**	2
Mini Paint Roller Cover				
Semi-Rough	4½	¾"	**54JF72**	2
Semi Smooth to Semi-Rough	6½"	½"	**54JF76**	2
Contractor 1st™				
Paint Roller Cover				
Smooth to Semi-Smooth	9"	⅜"	**54JF61**	1
Smooth to Semi-Smooth	18"	⅜"	**54JF60**	1
Semi-Rough	9"	¾"	**6YAJ2**	1
Semi Smooth to Semi-Rough	9"	½"	**6YAJ1**	1
Rough	9"	1"	**54JF62**	1



No. 14C549



No. 14C550

Purdy Roller Frames

Revolution Premium roller cover frame is lightweight and durable. Quick Connect feature allows connection to any acme threaded pole. Features easy roller cover release.

Premium Adjustable fits all standard roller covers from 12" to 18". Universal threaded end is compatible with all extension poles.

Jumbo Mini roller frames fit all 4.5" and 6.5" jumbo mini roller covers. No. 14C551 is with 14" and No. 52JJ13 is 22".

Description	Roller Length	Item No.
Paint Roller Frames		
Revolution	9"	**14C549**
Premium Adjustable	12 to 18"	**14C550**
Jumbo Mini	4½ and 6½"	**14C551**
Jumbo Mini	4½" and 6½"	**52JJ13**



No. 3UW67



No. 3UW80



No. 36T174



No. 38UX77

Wooster Paint Roller Covers

Super/Fab® Knit - Provides exceptional capacity with all flat or satin paints, stains, and waterproofing. Resists matting for complete coverage and smooth results. Polypropylene core resists water, solvent, and cracking.

Pro/Doo-Z® Woven - Shed- resistant for all paints, enamels, primers, urethanes and epoxies. High-density white fabric stays resilient, resists matting for a smooth, professional finish. Double-thick polypropylene core resists water, solvents and cracking.

Mohair Blend™ - Shed-resistant mohair fabric for enamels, varnishes, urethanes, epoxies, and floor coatings. Minimizes directional fabric qualities and provides good production and coverage. Polypropylene core resists water, solvents and cracking.

Micro Plush™ - Professional white microfiber fabric, for all paints and enamels, delivers a very uniform, even finish. Double-thick polypropylene core resists water, solvents, and cracking.

Surfaces	L	Nap	Item No.	Pkg. Qty.
Super/Fab®				
Paint Roller Cover				
Very Rough	9"	1¼"	**3UW71**	1
Semi-Smooth	7"	⅜"	**38UY10**	1
Semi-Smooth	9"	⅜"	**3UW67**	1
Semi-Rough to Rough	9"	¾"	**39UU03**	1
Semi-Rough to Rough	14"	¾"	**32UU90**	1
Semi-Rough to Rough	18"	¾"	**38UY09**	1
Semi-Rough	9"	½"	**3UW68**	1
Semi-Rough	14"	½"	**5MPR9**	1
Semi-Rough	18"	½"	**2GTR6**	1
Rough	4"	¾"	**3UW69**	1
Rough	9"	¾"	**3UW70**	1
Mini Paint Roller Cover				
Semi-Smooth	4½"	⅜"	**3WA80**	1
Semi-Smooth	6½"	⅜"	**39UU33**	1
Semi-Rough to Rough	6½"	¾"	**39UU79**	2
Semi-Rough	4½"	½"	**3WA81**	2
Rough	4½"	¾"	**6WB47**	2
Pro/Doo-Z®				
Paint Roller Cover				
Smooth	9"	3/16"	**3UW78**	1
Smooth	18"	3/16"	**3UW77**	1
Semi-Smooth	18"	⅜"	**3UW79**	1
Semi-Rough	9"	½"	**3UW81**	1
Medium	9"	⅜"	**3UW80**	1
Mini Paint Roller Cover				
Semi-Smooth	4½"	⅜"	**3TA37**	2
Semi-Smooth	6½"	⅜"	**6NE87**	2

Surfaces	L	Nap	Item No.	Pkg. Qty.
Mohair Blend™				
Paint Roller Cover				
Smooth	7"	¼"	**36T174**	1
Smooth	9"	¼"	**38UX84**	1
Smooth	12"	¼"	**38UX83**	1
Smooth	18"	¼"	**3UW64**	1
Smooth	6½"	¼"	**36T239**	1
Mini Paint Roller Cover				
Smooth	4½"	¼"	**3WA82**	2
Micro Plush™				
Paint Roller Cover				
Smooth	9"	5/16"	**38UX77**	1
Smooth	14"	5/16"	**32UU91**	1
Smooth	18"	5/16"	**39UU21**	1
Mini Paint Rollers				
Smooth	4½"	5/16"	**39UU53**	2
Smooth	6½"	5/16"	**39UU52**	2


No. 3UW50 | No. 38UY19 | No. 3WA86

Wooster Roller Frames

Sherlock® Quick release retaining spring prevents roller slippage, yet allows easy, one-rap removal.

Acme® Good quality for great price.

Jumbo Koter™ Solvent-resistant plastic cage and extra-smooth rolling action.

Description	Roller Length	Style	Item No.
Paint Roller Frames			
Sherlock®	4"	Cage	**38UY27**
Sherlock®	7"	Cage	**36T206**
Sherlock®	9"	Cage	**3UW50**
Sherlock®	14"	Cage	**5MPR8**
Mini-Koter™	4"	Cageless	**38UY23**
Acme®	7"	4 Wire Cage	**38UY19**
Acme®	9"	5 Wire Cage	**38UY18**
Mini Jumbo-Koter®™	4½ and 6½"	Cage	**3WA86**
Painting Extension Poles			
Sherlock GT® Convertible™ 1 to 2 ft. Length			**2ZHR7**
Sherlock GT® Convertible™ 2 to 4 ft. Length			**1EKL1**
Sherlock GT® Convertible™ 4 to 8 ft. Length			**1EKL2**

Find these and other Premier products on Grainger.com

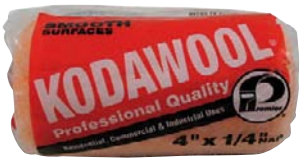
HOME-PRO®	Mohair	PREMIER® PLUS
Little John	PREMIER® MICROFIBER	ULTRA-MICRO™



No. 29UT35



No. 24K680



No. 29UT21



No. 6LFG9



No. 29UT16

Premier®

Roller Covers

STANDARD ROLLER COVERS

General Purpose - Quality polyester fabric with polypropylene core withstands water and solvents. Use with all paints and surfaces.

Woven-Pro® - Fine blend of woven fabric provides maximum protection against shedding. Lint-free finish on smooth, semi-smooth and semi-rough surfaces with all paints, enamels, and varnishes. Woven fabric is designed for maximum paint pick-up and release. Heavy-duty polypropylene core withstands water and solvents.

Kodawool® - Blend of polyester and knitted wool designed for maximum paint pick-up and release. One-coat coverage with oil as well as latex paints. Ideal for paints, stains, urethanes and cements. Heavy-duty polypropylene core withstands water and solvents.

MINI ROLLER COVERS

White-Woven® - Shed-resistant for a lint free application and minimal splatter.

High-Density Domed Foam - Provide an extremely smooth finish with all paints, urethanes, adhesives, varnishes, enamels and stains.

Surfaces	L	Nap	Item No.	Pkg. Qty.
Paint Roller Cover				
General Purpose				
Smooth	9"	¼"	**29UT35**	1
Semi-Smooth	4"	⅜"	**5CVP3**	1
Semi-Smooth	9"	⅜"	**1UFN2**	1
Semi-Rough	9"	½"	**29UT36**	1
Rough	9"	¾"	**29UT37**	1
Rough	9"	1¼"	**29UT38**	1
Semi-Smooth	18"	⅜"	**34AN73**	1
Semi-Rough	18"	½"	**34AN74**	1
Woven-Pro®				
Smooth	4"	3/16"	**24K680**	1
Smooth	7"	3/16"	**24K670**	1
Smooth	9"	3/16"	**29UT24**	1
Smooth	18"	3/16"	**3ZJE2**	1
Semi-Smooth	4"	⅜"	**6LFH4**	1
Semi-Smooth	7"	⅜"	**24K671**	1
Semi-Smooth	9"	⅜"	**1UFL7**	1
Semi-Smooth	18"	⅜"	**3ZJE3**	1
Semi-Rough	9"	½"	**1UFL8**	1
Semi-Rough	7"	½"	**24K672**	1
Semi-Rough	4"	½"	**29UT25**	1
Semi-Rough	18"	½"	**3ZJE4**	1
Rough	9"	¾"	**29UT26**	1
Kodawool®				
Smooth	4"	¼"	**29UT21**	1
Smooth	9"	¼"	**29UT22**	1
Smooth	7"	¼"	**34AN71**	1
Semi-Smooth	7"	⅜"	**24K674**	1
Semi-Smooth	18"	⅜"	**24K682**	1
Semi-Smooth	9"	⅜"	**1UFL5**	1
Semi-Rough	4"	½"	**24K678**	1
Semi-Rough	18"	½"	**24K683**	1
Semi-Rough	9"	½"	**1UFL6**	1
Semi-Rough	7"	½"	**34AN72**	1
Rough	4"	¾"	**24K679**	1
Rough	7"	¾"	**29UT23**	1
Rough	9"	¾"	**24K675**	1
Rough	18"	¾"	**24K684**	1
Extra Rough	9"	1¼"	**24K677**	1
Mini Paint Roller Cover				
White-Woven®				
Smooth	4"	¼"	**54JM22**	2
Smooth to Semi-Smooth	6½"	⅜"	**54JM21**	2
Semi-Smooth	6½"	½"	**54JM20**	2
High-Density Domed Foam				
Smooth	4"		**29UT16**	2
Smooth	4"		**6LFG9**	10
Smooth	6½"		**29UT19**	10



No. 48WM06

Roller Covers

SHUR-LINE

Foam rollers are ideal for ultra smooth surfaces such as cabinets and doors. Knit covers provide best coverage. Woven covers provide best finish. Microfiber covers provide the best of both worlds, resulting in the best coverage and best finish.

Surfaces	L	Nap	Item No.	Pkg. Qty.
Foam				
Mini Paint Roller Cover				
Smooth	4"	No Nap	**54HR60**	2
All	4"	No Nap	**39AN28**	10
All	6"	No Nap	**39AN33**	4
High Density Knit Fabric				
Paint Roller Cover				
Semi-Smooth	3"	⅜"	**48WL89**	2
Semi-Smooth	4"	⅜"	**48WL90**	2
Semi-Smooth	9"	⅜"	**48WM13**	3
Semi-Rough	9"	½"	**48WM06**	1
Semi-Rough	9"	½"	**48WM09**	3
Rough	9"	¾"	**48WM07**	1
Rough	9"	1"	**48WM08**	1
Semi-Smooth	9"	⅜"	**48WM05**	1
Mini Paint Roller Cover				
Smooth	3"	¼"	**52GZ11**	2

Surfaces	L	Nap	Item No.	Pkg. Qty.
Microfiber				
Paint Roller Cover				
Semi-Smooth	9"	⅜"	**39AN09**	1
Semi-Smooth	9"	⅜"	**39AN10**	3
Semi-Smooth	9"	9/16"	**52JC13**	1
Mini Paint Roller Cover				
Semi-Smooth	4"	⅜"	**48WL85**	2
Semi-Smooth	6"	⅜"	**48WL86**	2
Woven Fabric				
Paint Roller Cover				
Smooth	9"	¼"	**48WM04**	1
Smooth	9"	¼"	**48WM12**	3
Semi-Smooth	9"	⅜"	**52JC11**	1
Semi-Smooth	9"	⅜"	**52JC12**	3
Mini Paint Roller Cover				
Semi-Smooth	4"	⅜"	**39AN29**	10
Semi-Smooth	6"	⅜"	**39AN32**	6

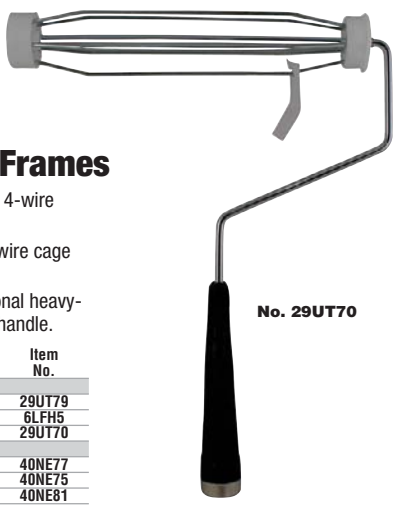


No. 12G317

SHUR-LINE

Paint Roller Frames

Description	Roller Length	Overall Length	Item No.
Mini Paint Roller Frame			
Frame	4 and 6"	12½"	**12G325**
Frame w/ Comfort Grip	4 and 6"	12½"	**39AN34**
Frame w/ Comfort Grip	4 and 6"	16½"	**39AN35**
Frame w/ Comfort Grip	4 and 6"	24½"	**39AN36**
Paint Roller Frame			
Cage	3"	11¾"	**54HR55**
Cage	4"	11¾"	**54HR56**
Cage	9"	12½"	**12G318**
Cage	9"	14½"	**12G317**
Cageless	9"	13"	**54HR59**
Cage w/ Comfort Grip	9"	12½"	**39AN13**



No. 29UT70

Premier®

Premier Roller Frames

No. 29UT79 is a 3" standard 4-wire cage frame.

No. 6LFH5 is 4" standard 4-wire cage frame with metal ferrule.

No. 20UT70 is a 9" professional heavy-duty cage frame with plastic handle.

Description	Overall Length	Item No.
Paint Roller Frames		
3" Roller Length	11½"	**29UT79**
4" Roller Length	12"	**6LFH5**
9" Roller Length	12½"	**29UT70**
Painting Extension Poles		
2 to 4 ft. Length	—	**40NE77**
3 to 6 ft. Length	—	**40NE75**
4 to 8 ft. Length	—	**40NE81**


No. 403T20


No. 415M68


No. 403T10

GA GRAINGER APPROVED

Paint Roller Covers

For use with all paints and stains. Features a polypropylene core. Superdurlon have polyester roller material. Superlon and Woolmax both have acrylic roller material.

Surfaces	Nap	L	Item No.	Pkg. Qty.
Superdurlon				
Mini Paint Roller Cover				
Smooth	⅜"	4"	**403T20**	10
Smooth	⅜"	6"	**415M64**	2
Paint Roller Cover				
Smooth	⅜"	4"	**415M68**	1
Smooth	⅜"	9"	**415M65**	1
Semi-Rough	¾"	4"	**403T10**	1
Semi-Rough	¾"	9"	**403T16**	1
Superlon				
Mini Paint Roller Cover				
Smooth	⅜"	4"	**422W54**	2
Paint Roller Cover				
Smooth	⅜"	4"	**403T19**	1
Smooth	⅜"	9"	**403T21**	1
Semi Smooth to Semi-Rough	½"	4"	**403T17**	1
Semi Smooth to Semi-Rough	½"	9"	**403T22**	1
Semi-Rough	¾"	9"	**415M66**	1
Rough	¾"	4"	**415M67**	1
Woolmax				
Mini Paint Roller Cover				
Smooth	⅜"	4"	**403T11**	2
Smooth	⅜"	6"	**403T23**	2
Smooth	⅜"	6"	**422W53**	10
Semi-Smooth	½"	4"	**415M69**	2
Semi Smooth to Semi-Rough	½"	4"	**403T12**	2
Semi Smooth to Semi-Rough	½"	6"	**403T18**	2
Semi Smooth to Semi-Rough	½"	6"	**403T13**	10
Semi-Rough	¾"	4"	**403T24**	1
Paint Roller Cover				
Smooth	⅜"	4"	**422W55**	1
Smooth	⅜"	9"	**422W52**	1
Semi Smooth to Semi-Rough	½"	4"	**403T14**	1
Semi Smooth to Semi-Rough	½"	9"	**403T09**	1
Semi-Rough	¾"	9"	**403T15**	1


No. 1UFN5


No. 1UFN3

GA GRAINGER APPROVED

Paint Roller Frames

Description	Roller Length	Item No.
Paint Roller Frames		
Mini Paint Roller Frame and Cover - Cage Style ⅜" Nap	4"	**1UFN5**
Paint Roller Frame - Cage Style Plastic Handle	9"	**1UFN3**
Paint Roller Frame - Cage Style Soft Rubber Handle	9"	**1UFP2**
Painting Extension Poles		
Universal Thread - 2 to 4 ft.	—	**1UFN6**
Universal Thread - 4 to 8 ft.	—	**1UFN7**
Universal Thread - 6 to 12 ft.	—	**1UFN8**
Universal Thread - 8 to 16 ft.	—	**1UFN9**


No. 3U604


No. 2FDK5


No. 2FDK1


No. 2FDK7


No. 2FDK3



No. 2GTU2


No. 3KMN2


No. 38X891


No. 52NN06


No. 48WL91


No. 39AN22


No. 38X892

TOUGH GUY HANDy Paint Products GA GRAINGER APPROVED WOOSTER HYDE SHUR-LINE

Painting and Finishing Tools

Description	L	W	Brand	Item No.	Pkg. Qty.
Painting Tools					
Pail Lid Opener	8"		Tough Guy	**3U604**	1
Paint Grid For Use With 5 gal. Buckets	12"	10¾"	Handy Paint Products	**49ET24**	1
Paint Grid For Use With 1 gal. Paint Cans	6½"	5¾"	Handy Paint Products	**49ET25**	1
Paint Can Opener	5¼"		GA	**2FDK5**	2
Paint Can Hook	5¾"	2¼"	GA	**2FDK1**	3
Paint Stir Stick, Red Plastic	12⅞"	1½"	GA	**2FDK7**	1
Paint Trim Guide, ABS w/ Stainless Steel 12" Blade	12"	2⅝"	GA	**2FDK3**	1
Paint Trim Guide, ABS w/ Stainless Steel 24" Blade	24"	3⅞"	GA	**2FDK4**	1
Paint Grid For Use With 1 gal. Paint Cans	9"	5¼"	Wooster	**2GTU2**	1
Paint Grid Wire For Use With 5 gal. Buckets	11½"	10"	Wooster	**3UW49**	1
Painters Tool 5-In-1, Brass/Nylon	7¼"		Hyde Tools	**3KMN2**	1
Painters Tool 10-In-1, TPE with Metal Inlay	13⅜ in.	2½ in.	Hyde Tools	**38X891**	1
Paint Brush and Roller Cleaners					
Paint Brush and Roller Cleaner	15¼"	1½"	GA	**2FDK2**	1
Handle with Grid			Richard	**52NN06**	1
Paint Brush and Roller Cleaner	7 in.	2½ in.	Hyde Tools	**38X892**	1
Painting Mitts					
Painting Mitt - Synthetic Lambs Wool, White			GA	**1UFN4**	1
Painting Mitt - Synthetic Lambs Wool, Natural	9"	6"	Shur-Line	**39AN37**	1
Paint Edgers and Refills					
Paint Edger - Blue	4¾"	3½"	GA	**2FDK6**	1
Paint Edger Refill - White	4¾"	3½"	GA	**2FDK9**	3
Applicator w/Comfort Grip Handle and Tear Resistant Pad	3¾"	9"	Shur-Line	**12G334**	1
Pad Refill for 12G334	3¾"	9"	Shur-Line	**12G335**	1
Applicator w/Comfort Grip Handle and Beveled Pad	3¾"	7"	Shur-Line	**39AN18**	1
Applicator w/Comfort Grip Handle and Beveled Pad	3¾"	9"	Shur-Line	**39AN20**	1
Pad Refill for 39AN18	3¾"	7"	Shur-Line	**39AN19**	1
Pad Refill for 39AN20	3¾"	9"	Shur-Line	**39AN21**	1
Applicator w/Comfort Grip Handle and Non-Rip Pad	3¾"	9"	Shur-Line	**48WL91**	1
Applicator w/Comfort Grip Handle and Non-Rip Pad	3¾"	7"	Shur-Line	**48WM14**	1
Pad Refill for 48WL91	3¾"	9"	Shur-Line	**48WL92**	1
Pad Refill for 48WM14	3¾"	7"	Shur-Line	**48WM15**	1
Pad Refill + Groove Tool for 39AN22	7⅝"	6½"	Shur-Line	**39AN23**	1
Deck Stain Applicator + Groove Tool	7⅝"	6½"	Shur-Line	**39AN22**	1



No. 2FCA3


No. 6LFH3



No. 49ET15



No. 1AHE1



No. 49ET20


No. 6TWC1


No. 45GR53


No. 14A040


No. 3UW48


No. 39AN15


No. 6LFH2


No. 49ET22


No. 24K687

Premier® | HANDy Paint Products | WOOSTER | ENCORE Plastics corporation | ★GA GRAINGER APPROVED

Paint Containers, Paint Buckets and Paint Trays

Cap.	Item	For Use With	Material	Brand	Mfr. Model	Item No.	Pkg. Qty.
Paint Mix and Measure Containers/Lids							
1 qt.	Container	Mfr. No. 2FCA4	LLDPE	Encore Plastics	2FCA3	**2FCA3**	24
—	Container Lid	Mfr. No. 2FCA3	HDPE	Encore Plastics	2FCA4	**2FCA4**	25
2½ qt.	Container	Mfr. No. 2FCA6	LLDPE	Encore Plastics	2FCA5	**2FCA5**	12
—	Container Lid	Mfr. No. 2FCA5	HDPE	Encore Plastics	2FCA6	**2FCA6**	25
5 qt.	Container	Mfr. No. 80900	HDPE	Encore Plastics	81166	**4HGR9**	1
—	Container Lid	Mfr. No. 81166	LLDPE	Encore Plastics	80900	**4HGT1**	1

Cap.	Item	L	W	D	For Use With	Material	Brand	Mfr. Model	Item No.	Pkg. Qty.
Paint Buckets and Liners										
1 pt.	Pail	5½"	7½"	4½"	—	PET Recycled Plastic	Premier	BRC	**6LFH3**	1
	Bucket	6"	6"	6½"	—	Plastic	Handy Paint Products	1500-CC	**49ET15**	1
1 qt.	Pail	8½"	7"	6½"	Mfr. No. 8629	Polypropylene	Wooster	8619	**1AHE1**	1
	Pail	6"	8"	6"	Mfr. No. 2520-CT	Plastic	Handy Paint Products	2500-CT	**49ET16**	1
	Pail Liner	8½"	7"	6½"	Mfr. No. 8619	PET Recycled Plastic	Wooster	8629	**1AHE2**	3
	Pail Liner	5 39/64"	6 13/64"	6 13/64"	Mfr. No. 2500-CT	Plastic	Handy Paint Products	2520-CT	**49ET17**	6
1 gal.	Pail	16"	9"	16"	Mfr. No. 4510-CT	Plastic	Handy Paint Products	4500-CC	**49ET20**	1
	Pail Liner	15"	8"	17"	Mfr. No 4500-CC	Plastic	Handy Paint Products	4510-CT	**49ET21**	2
5 qt.	Pail	8½"	9¼"	6 5/8"	Mfr. No. 05115	HDPE	Encore Plastics	05160	**6TWC1**	1
	Pail Liner	9¼"	9¼"	6⅛"	Mfr. No. 05160	HDPE	Encore Plastics	05115	**6TWC0**	1
1½ gal.	Bucket	8½"	10"	13"	Wombat PortaPaint Accessories, Mfr. No. 5030, 5047, 5054, 5078,5085, 5092, 5061, 5115, 5108	HDPE	Wombat Portapaint	5009	**45GR53** *	1
	Bucket	8½"	10"	13"	Wombat PortaPaint Accessories, Mfr. No. 5030, 5047, 5054, 5078,5085, 5092, 5061, 5115, 5108	HDPE	Wombat Portapaint	5016	**45GR54** *	1
—	Preserver Cover	13"	10"	½"	Mfr. No. 5009,5016,5023,5030,5047	HDPE	Wombat Portapaint	5030	**45GR56**	1
	Tray Liner	13"	10"	½"	Mfr. No. 5047	HDPE	Wombat Portapaint	5054	**45GR58**	10
10 qt.	Pail	11⅛"	11⅛"	24⅝"	—	HDPE	Encore Plastics	301759	**6TWA5**	1
4 gal.	Bucket	13½"	15"	9"	Mfr. No. 8626, R471	Polypropylene	Wooster	8616	**14A040**	1
—	Bucket Lid	14"	15.25"		Mfr. No. 8616	Polypropylene	Wooster	8626	**14A041**	1
4 gal.	Bucket Liner	13½"	15"	9"	Mfr. No. 8616	Plastic	Wooster	R471	**46TX53**	1
20 qt.	Pail	12½"	13¾"	13⅜"	—	HDPE	Encore Plastics	56511	**6TWA6**	1
5 gal.	Bucket	14"	24"	10"	Mfr. No. R472	Polypropylene	Wooster	8614	**3UW48**	1
	Bucket Liner	14"	24"	10"	Mfr. No. 8614	Plastic	Wooster	R472	**46TX54**	5
Paint Trays and Liners										
1 pt.	Tray	11½"	8"	2¾"	—	Plastic	GA	16	**24K695**	1
	Tray Liner	15"	7¼"	3"	—	PET Recycled Plastic	GA	BR403-4 ½	**6WB45**	1
½ qt.	Mini Roller Tray	15"	7"	2"	Paints, Solvents Not for Storing Chloroform, Methyl Chloride, or An Aqueous Solution of Hydrogen Sulphide	Plastic	GA	12050C	**39AN15**	1
1 qt.	Tray	15½"	11½"	2½"	Mfr. No. WR402-11	PET Recycled Plastic	GA	GPT	**6LFH2**	1
	Tray	16¼"	11"	2½"	Mfr. No. DWT-PTL	Copolymer Polypropylene	GA	200259	**14A047**	1
	Tray	16½"	11"	2½"	Mfr. No. R406-11, GPT	Steel	GA	R402-11	**3UW74**	1
	Tray Liner	15⅜"	11¾"	2¼"	—	Plastic	GA	200998	**24K689**	1
	Tray Liner	15½"	11½"	2"	Mfr. No. 200259, R402-11	Plastic	GA	PTL-10	**24K690**	10
	Tray Liner	16½"	11"	2½"	Mfr. No. R402-11, BR549-11	PET Recycled Plastic	GA	R406-11	**3WB63**	1
2 qt.	Tray	15"	11 19/32"	3½"	Mfr. No. DPT-PTL	Polypropylene	GA	DPT	**34AN83**	1
	Tray Liner	15⅛"	11¾"	3½"	Mfr. No. DPT	Polypropylene	GA	DPT-PTL	**34AN84**	1
1 gal.	Tray	22"	12 13/16"	4½"	Mfr. No. 7510-CC	Plastic	GA	7500-CC	**49ET22**	1
	Tray	13"	22"	4"	—	Plastic	GA	18DPT	**24K687**	1
	Tray	14"	18"	7"	Mfr. No. BR415	Polypropylene	GA	BR414	**32UU86**	1
	Tray	19¼"	13 13/32"	3½"	Mfr. No. DWT-PTL	Steel	GA	DWTM	**34AN85**	1
	Tray Liner	20"	14"	3½"	Mfr. No. DWTM, 200259	Plastic	GA	DWT-PTL	**24K691**	1
	Tray Liner	18"	4½"	4½"	Mfr. No. 7500-CC	Plastic	GA	7510-CC	**49ET23**	3
	Tray Liner	14"	18"	7"	Mfr. No. BR414	HDPE	GA	BR415	**32UU87**	1
5 qt.	Tray	20¼"	13¼"	4 3/16"	Mfr. No. 02160	HDPE	GA	45 XL	**6TWA7**	1
	Tray Liner	20½"	14"	4"	Mfr. No. 45 XL	HDPE	GA	02160	**6TWA9**	1
2 gal.	Tray Liner	21"	15"	3"	—	Plastic	GA	509366000	**19ZN57**	1

No. 45GR53 is gray and No. 45GR54 is blue.





No. 41U063



No. 6LGK6



No. 6LGK7

DEROYAL TEXTILES ★GA GRAINGER APPROVED

SUPERTUFF HERMITEX® IDEALFOLD®

Paint Strainers and Cheesecloth

Construc.	Microns	Size	L	W	Brand	Item No.	Pkg. Qty.
Strainers							
Tack Cloth		—	36"	18"	DeRoyal	**41U063**	3
Woven Nylon Mesh w/Elastic Top	400	1 gal.	—	—	GA	**2AJT3**	2
Nylon	400	1 Gal.	12"	12½"	DeRoyal	**6LGK3**	2
Nylon	400	5 Gal.	21"	20"	DeRoyal	**6LGK4**	2
Paint Strainer Bags							
Woven Nylon Mesh w/Elastic Top	400	5 gal.	—	—	GA	**2AJT4**	2
Polyester Mesh w/ Elastic Top	600	1 Gal.	11⅜"	10"	Supertuff	**45YX49**	25
Polyester Mesh w/ Elastic Top	600	5 Gal.	19⅜"	16"	Supertuff	**45YX50**	25
Polyester Mesh w/ Plain Top	600	1 Gal.	12"	10⅛"	Supertuff	**45YX51**	25
Polyester Mesh w/ Plain Top	600	5 Gal.	20"	17½"	Supertuff	**45YX52**	25
Polyester Mesh w/ Elastic Top	600	5 Gal.	11⅜"	10"	Supertuff	**45YX53**	25
Polyester Mesh w/ Elastic Top	250	1 Gal.	11⅜"	10"	Supertuff	**45YX54**	25
Polyester Mesh w/ Elastic Top	250	5 Gal.	20"	16"	Supertuff	**45YX55**	25
Polyester Mesh w/ Plain Top	250	1 Gal.	12"	10⅛"	Supertuff	**45YX56**	25
Polyester Mesh w/ Plain Top	250	5 Gal.	20"	17½"	Supertuff	**45YX57**	25
Cone Strainer Holders							
Metal		—	10⅝"	10"	Supertuff	**45YX65**	1
Cone Paint Strainers							
Nylon Mesh	190	—	5"	3"	DeRoyal	**41U066**	4
Nylon Mesh	226	—	5"	9"	Supertuff	**45YX58**	1000
Nylon Mesh	226	—	5"	9"	Supertuff	**45YX59**	250
Nylon Mesh	226	—	5"	9"	Supertuff	**45YX60**	100
Nylon Mesh	190	—	5"	9"	Supertuff	**45YX61**	1000
Nylon Mesh	190	—	5"	9"	Supertuff	**45YX62**	250
Nylon Mesh	125	—	5"	9"	Supertuff	**45YX64**	1000

Description	L	W	Brand	Item No.	Pkg. Qty.
Cheesecloth					
Crimped Cheesecloth, Bleached 3 Ply Cotton	33 yd.	10"	Hermitex	**6LGK6**	12
Cheesecloth 20/12, Bleached Grade 10, 4 Ply Cotton	80 yd.	36"	Idealfold	**6LGK7**	1
Cheesecloth 24/20, Bleached Grade 40, 4 Ply Cotton	70 yd.	36"	Idealfold	**6LGK8**	1
Cheesecloth 28/24, Bleached Grade 50, 4 Ply Cotton	70 yd.	36"	Idealfold	**6LGK9**	1
Cheesecloth 32/28, Bleached Grade 60, 4 Ply Cotton	60 yd.	36"	Idealfold	**41U060**	1
Cheesecloth 44/36, Bleached Grade 90, 4 Ply Cotton	60 yd.	36"	Idealfold	**41U061**	1
Cheesecloth 20/12, Bleached Grade 10, Cotton	4 yd.	36"	DeRoyal	**41U062**	1



C. No. 2FDJ6



F. No. 2FDJ9

Key	L	W	Item No.
A	7¾"	3½"	**2FDK8**
B	14½"	7⅜"	**2FDJ5**
C	8⅛"	1⅝"	**2FDJ6**
D	11⅞"	6½"	**2FDJ7**
E	9⅞"	¾"	**2FDJ8**
F	12"	¾"	**2FDJ9**

Wallpaper Hanging Tools

★GA GRAINGER APPROVED

A. Wallpaper Sponge— For general-purpose washing. Use on any surface.

B. Wallpapering Tool Kit—Includes snap-blade knife, pasting brush, smoothing brush, paint and trim straight edge, and seam roller.

C. Seam Roller— Sidearm style reaches into corners. Wood handle.

D. Wood-Handle Paste Brush—All-purpose brush has white, natural tampico bristles.

E. Plastic-Handle Paste Brush— Synthetic poly-fill bristle.

F. Wallpaper Brush—Has heavy filling and short, stiff poly trim.



No. 2AJU4



No. 2AJT6



No. 41U067

★GA GRAINGER APPROVED DEROYAL TEXTILES

Sponges and Staining Cloths

Description	L	W	Thickness	Brand	Item No.	Pkg. Qty.
For Water- or Oil-Based Paints and Stains						
Natural Sea Wool Sponge, Coarse	5½"	—	—	GA	**2AJU4**	1
Natural Sea Wool Sponge, Coarse	5½"	—	—	GA	**2AJU5**	2
Natural Sea Wool Sponge, Coarse	6½"	—	—	GA	**2AJU2**	1
Natural Sea Grass Sponge, Fine	7½"	—	—	GA	**2AJU3**	1
For Stains and Varnish						
Staining Cloth, Lint-Free	18"	14"	—	GA	**2AJT6**	4
Staining Pad, Terry Cloth	4½"	3¼"	1"	GA	**2AJT5**	2
Staining Pad, Terry Cloth	5"	4"	¾"	DeRoyal	**41U064**	3
Textured Staining Cloth	9"	2½"	2½"	DeRoyal	**41U067**	1



No. 2HNL4

BESTT LIEBCO™ CRAFTED WITH QUALITY™

Floor Applicator Pads

Include one ¾" nap lambskin applicator and hardwood block. Threaded-tip handles sold separately.

For Use With	L	W	Item No.
Floor Applicator Pad			
Threaded Tip Broom Handle	10"	2½"	**2HNL4**
Threaded Tip Broom Handle	12"	2½"	**2HNL5**
Threaded Tip Broom Handle	16"	2½"	**2HNL6**
Floor Applicator Pad Refill			
2HNL4	10"	2½"	**2HNL7**
2HNL5	12"	2½"	**2HNL8**
2HNL6	16"	2½"	**2HNL9**



A. No. 1YTU3



B. No. 1YTU4

HIRETECH® www.hiretech.biz

Wallpaper Stripper and Perforator

A. Steam Wallpaper Stripper— Runs up to 90 min. before shutting off automatically. Anti-scald feature provides increased user safety. Rolls easily on 4 casters. 120 VAC.

B. Wallpaper Perforator—Perforate wallpaper without damaging wall surfaces for easy removal. Angled V head design. 21" steel tube with soft rubber grip handle.

Key	L	W	H	D	Item No.
A	—	8¾"	15"	21¾"	**1YTU3**
B	21"	—	—	—	**1YTU4**



No. 35YJ87



No. 4FZY2

Wallpaper Adhesives and Strippers

RUST-OLEUM INDUSTRIAL BRANDS ZINSSER QUALITY SINCE 1849

SureGrip® Heavy-Duty 122 Adhesive—Professional, ready-to-use, and strippable adhesive offers superior adhesion and mildew resistance. Stops curling edges and lifting seams. Dries clear. Nonstaining for easy clean up.

DIF® Concentrate Wallpaper Stripper—Enzyme-based formula quickly and easily removes wallcoverings. Concentrated liquid formula that mixes with water.

Description	Size	Brand	Item No.
SureGrip® Heavy-Duty 122 Adhesive	5 gal.	Rust-Oleum	**35YJ87**
SureGrip® Heavy-Duty 122 Adhesive	1 gal.	Rust-Oleum	**35YJ88**
DIF® Concentrate Wallpaper Stripper	22 oz.	Zinsser	**4FZY2**

Key	Description	Material	Color	L (ft.)	W	Thickness (mil.)	Brand	Item No.
Surface Protection, Film								
A.	Adhesive Coated Carpet Protection Film	LLDPE	Clear	200	24"	2.5	Plasticover	**2NYH7**
			Clear	200	36"	2.5	Plasticover	**2NYH9**
			Clear	500	24"	2.5	Plasticover	**2NYJ1**
			Clear	500	36"	2.5	Plasticover	**2NYH6**
			Clear	500	48"	2.5	Plasticover	**2NYH8**
B.	Carpet Shield® Temporary Carpet Protection	Plastic	Clear	100	24"	1	Surface	**22DM35**
			Clear	200	24"	1	Surface	**22DM36**
			Clear	500	24"	1	Surface	**22DM37**
C.	Easy Mask® Protective Carpet Film, Adhesive Coated		Clear	200	24"	2	Trimaco	**58UT77**
			Clear	200	36"	2	Trimaco	**58UT79**
D.	One Tuff™ Leakproof/ Slip Resistant Surface Protection	Pulp, Polyester	Blue	50	2 ft.	10	Trimaco	**36TY70**
			Blue	100	2 ft.	10	Trimaco	**36TY71**
			Blue	200	2 ft.	10	Trimaco	**36TY72**
			Blue	200	4 ft.	10	Trimaco	**36TY73**
E.	SuperTuff™ Leakproof/ Slip Resistant Surface Protection	PET	Gray	50	3 ft.	100	Trimaco	**36TY74**
			Gray	100	3 ft.	100	Trimaco	**36TY75**
F.	AquaShield™ Fire Retardant Surface Protection	LDPE	Teal	186	3 ft.	25	Trimaco	**36TY69**
			Teal	393	3 ft.	10	Trimaco	**36TY68**
G.	Tape & Drape Self-Adhesive Containment Film	Polyethylene	Clear	72	2 ft.	0.5	Trimaco	**36ED17**
			Clear	72	4 ft.	0.5	Trimaco	**36ED18**
			Clear	72	6 ft.	0.5	Trimaco	**36ED19**
			Clear	72	8 ft.	0.5	Trimaco	**36ED20**
			Clear	90	2 ft.	0.4	Trimaco	**36ED21**
			Clear	100	1-5/6 ft.	0.4	Trimaco	**36ED22**
H.	Duct Cover Shield Self-Adhesive Film	LLDPE	Blue	200	24"	3	Surface	**10C558**
			Blue	200	36"	3	Surface	**10C559**
I.	Toilet Paint Protection	Polypropylene	White	12	9 ft.	—	Trimaco	**36ED16**
Surface Protection, Paper								
J.	Builder Board™ Floor Protection Board	Paper	Brown	100	38"	45	Surface	**10C551**
K.	Builders Construction Flooring Paper, Non-Adhesive		Brown	140	35"	8	Trimaco	**58UU58**
L.	Kraft Shield Floor Protection Paper		Natural	144	35"	—	Surface	**36C450**
M.	X-Board™ Floor Protection	Paperboard	Brown	50	35"	22	Trimaco	**45YX47**
			Brown	100	35"	22	Trimaco	**45YX48**
Window Shield Self-Adhesive Film								
	Short-Term (Up to 45 Days), 2 mil.	Polyethylene	Blue	250	24"	1.5	Surface	**10C548**
			Blue	600	24"	1.5	Surface	**10C546**
			Clear	250	36"	1.5	Surface	**10C547**
	Long-Term (Up to 1 yr.), 3.5 mil.	PVC Film	Blue	330	24"	3	Surface	**10C550**
Carpet Film Applicator								
	Adjustable, For Use With 24", 36", and 48" Rolls	Steel	Blue	—	24, 36 or 48"	—	Plasticover	**18F254**
Shoe Cover Dispenser and Refill								
	Shoe/Boot Cover Dispenser	ABS Plastic	White	—	8⅜"	—	Trimaco	**36ED14**
	Shoe Cover Applicator Refill	Polyethylene	Clear	—	—	1.38	Trimaco	**36ED15**
Dust Containment Pole								
	12'H, pkg. of 2 - For Use With Plastic Sheeting	Aluminum	Silver	—	2"	—	Trimaco	**52CC87**


No. 22DM35


No. 10C551


No. 36ED14

Plasticover SURFACE SHIELDS TRIMACO

Surface Protectors

Surface Protection, Film—
A. Self-adhesive film applies quickly and removes easily. Nonslip surface grips carpet firmly. Tear- and puncture-resistant.

B. Clear, self-adhering protective film for all types of carpeting.

C. Reverse-wound nonskid film is easy to apply and protects against spills, dirt, and foot traffic. Removes with no residue.

D. Great for painting and staining. The cloth side absorbs while the coated side is leak-resistant.

E. Heavy-duty, absorbent, slip-resistant, and reusable. Long-lasting and easy-to-clean.

F. Fire-retardant, leakproof, durable, and reusable.

G. Pre-taped along one edge of high-density masking film. Perfect for use in areas when painting.

H. Protective film for HVAC ducts. Helps to meet SMACNA guidelines.

I. Reusable cover holds in place with elastic and fits most standard toilets.

Surface Protection, Paper—
J. Features liquid shield technology that defends floors and other hard surfaces from water, paint, and mud.

K. Economical kraft construction paper, in easy-to-handle rolls, is large enough for several projects.

L. Construction-grade paper protects flooring, cabinets, and counter tops from foot traffic, paint, and spills.

M. Breathable to allow floors to continue the curing process.

Window Shield Self-Adhesive Film—Provide protection to windows and glass.

Carpet Film Applicator—Features a roller design that allows for fast application. Steel construction adjusts to fit 24", 36", and 48" rolls.

Shoe Cover Dispenser and Refill—Simply step, pull, and tear. Dispenser includes 1 pod and 1 roll. Up to 250 pairs per roll.

Dust Containment Pole—Use with plastic sheeting to keep debris and dust contained to the work area.

Description	Material	Color	L (ft.)	W (ft.)	Thickness (mil.)	Brand	Item No.
AquaShield™ Fire Retardant	LDPE	Teal	3	15	10	Trimaco	**36TY58**
Drop Cloth	Canvas	Off White	12	9	—	GA	**5H908**
		Off White	15	12	—	GA	**5H909**
Economical	LDPE	Clear	9	12	2	Trimaco	**36ED25**
		Clear	10	20	1	Trimaco	**36ED24**
		Translucent	9	12	0.7	Trimaco	**36ED23**
Eliminator™ Leakproof/ Slip Resistant	PVC	White	4	12	13	Trimaco	**36TY61**
		White	4	15	13	Trimaco	**36TY62**
		White	9	12	13	Trimaco	**36TY59**
		White	12	15	13	Trimaco	**36TY60**
One Tuff™ Leakproof/ Slip Resistant	Pulp, Polyester	Blue	4	15	10	Trimaco	**36TY65**
		Blue	6	8	10	Trimaco	**36TY66**
		Blue	9	12	10	Trimaco	**36TY63**
		Blue	12	15	10	Trimaco	**36TY64**
Runner	Canvas	Off White	15	4	—	GA	**5H910**
StayPut™ with Surface Grip & Spill Block	Anti-Slip Canvas	Tan	8	6	47	Trimaco	**45YX44**
		Tan	12	4	47	Trimaco	**45YX43**
		Tan	12	9	47	Trimaco	**45YX42**
SuperTuff™ Double Guard	Paper, Plastic	White	10	4	47	Trimaco	**45YX46**
		White	12	8	47	Trimaco	**45YX45**
SuperTuff™ Leakproof/ Slip Resistant	PET	Gray	3	6	100	Trimaco	**36TY67**


No. 5H908



No. 36ED23

Drop Cloths

TRIMACO GA GRAINGER APPROVED

Trimaco—Aqua Shield™ is fire retardant, leakproof, and durable. Eliminator™ is a durable professional-grade butyl drop. One Tuff ™ drop features a cloth side that absorbs while the coated side is leak-resistant. Stay Put™ canvas is 300% more slip-resistant than canvas. SuperTuff™ Double Guard is absorbent paper with a leak-resistant bottom. SuperTuff™ Leakproof is heavy-duty and absorbent.

GA—Washable, heavy-duty 8-oz. canvas. Double-stitched with mildew-resistant thread. Finished hems and seams. Great for indoor and outdoor painting projects.

Protective Paint Clothing

GA GRAINGER APPROVED DEROYAL TEXTILES TRIMACO

Description	Color	Brand	Item No.
Elastic Boot Cover, 1 Pair	White	GA	**2AJT7**
Elastic Shoe Cover, 1 Pair	White	GA	**2AJT8**
Canvas Spray Hood, w/Elastic Chin Strap	Natural	GA	**2AJT9**
Cotton Knit Spray Sock Hood	Natural	GA	**2AJU1**
Cotton Paint Spray Hood	Natural	DeRoyal	**6LGK5**

Description	Color	Brand	Item No.
Spray Suit - M	White	Trimaco	**54DD74**
Spray Suit - L	White	Trimaco	**54DD75**
Spray Suit - XL	White	Trimaco	**54DD76**
Spray Suit - 2XL	White	Trimaco	**54DD77**


No. 6LGK5

For additional Spray Booths, Power Booths, and Filters, go to Grainger.com®.


No. 1MAH6

Bench and Floor Spray Booths

- 18-ga. galvanized sheet steel construction
- Tube axial exhaust fan
- 3-phase, TEFC 208/230/460V, 1725 rpm, 60 Hz, tri-voltage motor with variable pitch pulley
- 48", 4-tube, 120/277V, fluorescent light fixtures, T8 color-corrected tubes included (6-tube fixtures available separately)

Booths are designed for either top- or rear-exhaust systems. Roll filter media is sold separately on page 3058. Comply with NFPA 33, OSHA, EPA, NEC, and BOCA.

Inside Working Dim. W	Inside Working Dim. H	Inside Working Dim. D	Overall Dim. W	Overall Dim. H	Overall Dim. D	Light Fixtures Quantity	Fan Size	Motor HP	SCFM @ ¼ In. SP	Mfr. Model	Item No.
Bench Paint Spray Booth											
5 ft.	4 ft.	3 ft.	5 ft. 4"	7 ft. 2"	5 ft. 2"	1	18"	½	2000	GIFPG-05	**1MAH5**
Floor Paint Spray Booth											
6 ft.	7 ft.	6 ft.	6 ft. 4"	7 ft. 2"	9 ft. 2"	1	24"	1	5250	GIFPG-060706	**1MAH6**
8 ft.	7 ft.	6 ft.	8 ft. 4"	7 ft. 2"	9 ft. 2"	1	24"	2	7000	GIFPG-080766	**1MAH7**
8 ft.	8 ft.	6 ft.	8 ft. 4"	8 ft. 2"	9 ft. 2"	1	30"	2	8000	GIFPG-08086	**1MAH8**
10 ft.	8 ft.	6 ft.	10 ft. 4"	8 ft. 2"	9 ft. 2"	2	30"	3	10,000	GIFPG-100806	**1MAH9**

Description	For Use With	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.
Accessories						
Exhaust Stack Kit	Mfr. Model No. GIFP-5	—	—	—	ES18	**5ZG40**
Exhaust Stack Kit	Mfr. Model No. GIFP-676, GIFP-876	—	—	—	ES24	**5ZG41**
4-Light Spray Booth Light Fixture	Mfr. Model No. GIFP-5, GIFP-676, GIFP-876, GIFP-886, GIFP-1086, PYRG-140924-2408	—	—	—	LABW12-4	**2TRN9**
6-Light Spray Booth Light Fixture	Mfr. Model No. GIFP-5, GIFP-676, GIFP-876, GIFP-886, GIFP-1086	—	—	—	LABW12-6	**2TRP1**
Booth Box Mini™ Single Compartment, Magnetic	—	14"	7¼"	6"	218-006	**2TRP3**
GUNHANGER™ Single Spray Gun Holder, Magnetic	—	3"	—	5"	218-004	**2TRP4**
GUNHANGER™ 4-Position Spray Gun Holder, Magnetic	—	7½"	18¼"	7"	218-011	**2TRP5**
GUNHANGER™ Hose and Double Spray Gun Holder, Magnetic	—	7½"	18¼"	7"	218-013	**2TRP6**
Booth Shelf WM™ 3-Position, Magnetic	—	14"	10"	8½"	218-009	**2TRP7**


No. 12T024

Description	Item No.
Dirt Trap Protection Material	
14"W x 300 ft.	**12T024**
28"W x 300 ft.	**12T025**
56"W x 300 ft.	**12T026**
Dispensers	
Dirt Trap Dispenser for No. 12T025	**12T029**
Dirt Trap Floor Applicator for No. 12T025	**12T032**
Dirt Trap Floor Applicator for No. 12T026	**12T031**

3M

Dirt Trap Surface Protection System

- White color

Adhesive-backed, non-woven protection material protects paint booth walls and floor, traps dust, dirt, and overspray, and brightens work areas.


Flame-Retardant Floor Paper

Spray Booth Paper and Filters

BINKS GFS

RECEPTOR FILTER

Superior overspray holding capacity results in fewer filter changes. Green layer is made from 100% recycled PET green soda bottles.

1" INTAKE AIR FILTER PAD

Tacky pressure sensitive adhesive filter panel is great for mixing rooms and cross-draft and semi-downdraft spray booths.

2" INTAKE FILTER PAD

Filter removes 100% of visible dust and micron particles. UL Listed, Class 2923X for flammability.

AIR FILTER PAD

Designed to help reduce operating costs and for virtually all spray applied industrial coatings. Biodegradable and can be incinerated. Ideal for adhesives, clear coats, epoxies, fiberglass, sealers, stains, and urethanes. Meets UL Class 2 Standards for Flammability.

GFS WAVE® EXHAUST FILTERS

Provide full-depth loading with low runoff and exceptional paint holding capacity. Minimal particulate emissions and high paint removal of all coating types, including clear and waterborne. No. 6TWA3 comes in a roll. Filter material complies with UL 900, NFPA, and OSHA requirements.

FLAME-RETARDANT FLOOR PAPER

Eliminates scraping, stripping, and scrubbing to improve plant efficiency and assure compliance with OSHA requirements for safe cleaning and residue removal. Antislip surface; bright white color improves booth visibility.

Description	Nominal Dim. L	Nominal Dim. W	Nominal Dim. H	Nominal Dim. D	Brand	Mfr. Model	Item No.	Pkg. Qty.
Filters								
Receptor Filter Pad	—	20"	20"	2"	Binks	29-3111	**5PVG1**	25
Intake Air Filter Pad	—	20"	20"	1"	Binks	29-486	**6URD8**	20
Intake Filter Pad	—	48"	20"	2"	Global Finishing Solutions	217-200	**6TWA2**	8
Air Filter Pad	30 ft.	30 ft.	36"	2"	Binks	29-2186	**489N72**	1
GFS Wave® Exhaust Filter Roll	24 ft.	24 ft.	30"	2"	Global Finishing Solutions	FIL-ERP-3024-W	**6TWA3**	1
GFS Wave® Exhaust Filter Pad	—	20"	20"	2"	Global Finishing Solutions	FIL-EPP-2020-W	**2TRP8**	30
GFS Wave® Exhaust Filter Pad	—	25"	20"	2"	Global Finishing Solutions	FIL-EPP-2025-W	**6TWA1**	30

Paper Weight	Nominal Dim. L (ft.)	Nominal Dim. W (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Flame-Retardant Floor Paper						
80 lb.	300 ft.	36"	Binks	29-863	**5PB41**	1
80 lb.	300 ft.	60"	Binks	29-865	**41U072**	1
100 lb.	300 ft.	36"	Binks	29-872	**5PVG2**	1



Spray Booth Coatings

BINKS

- Applies with airless, HVLP, or conventional spray equipment
- Environmentally friendly formula is VOC < 164g/l

Nonflammable, water-based coatings protect against hazardous overspray accumulation. Dries quickly to form a flexible film that can be cleaned of overspray with just soap and water.

Color	Size	Dry Time	Coverage	Mfr. Model	Item No.
Clear	1 gal.	15 min.	200 to 270 sq. ft./gal.	29-248	**5PB42**
White	5 gal.	1 to 2 hr.	525 to 875 sq. ft./gal.	29-249	**1ZLB1**

SPEEDAIRE

Production Paint Tanks

- 2½-gal. capacity

Tanks can be used with most pressure-feed spray guns, and 1-gal. paint can may be placed directly in the tank. Include pressure regulator, pressure gauge, safety valve, and 15-ft. air hose.



No. 6Z899



No. 1ZMG5

Material	Max. Pressure	Item No.
Stainless Steel Tank, Aluminum Tank Lid	50 psi	6Z899
Galvanized Steel	50 psi	1ZMG5

Description	For Use With	Item No.	Pkg. Qty.
Replacement Parts			
Lid Gasket	6Z899	4F967	2
Paint Tank Liners	6Z899, 1ZMG5	1ZMG1	6



No. 1ZLA9

BINKS DeVILBISS

2-Qt. Pressure-Feed Cup Outfit

Cup-and-gun package can be used with all medium-viscosity materials. Air regulator can make on-the-spot adjustments. 14" spread pattern. Use with minimum 5-HP compressor. Includes 5-ft. fluid hose, 5-ft. air hose, 2-qt. cup, and Conventional Spray Gun No. 5PB39.

Air Consumption	Nozzle Size	Mfr. Model	Brand	Item No.
14.3 cfm @ 50 psi	0.046"/1.2mm	98-1067	Binks	1ZLA9
Replacement Parts				
Pressure Cup Gasket		80-11	Binks	1ZLG3
Spray Gun Paint Cup for 1ZLA9		80-4	Binks	1ZLG9
Air Regulator Repair Kit w/Gaskets and O-Rings		KB-428-1	DeVilbiss	1ZLH2

BINKS

Airless Spray Gun and Tips

Airless needle creates high quality finish with a variety of materials and handles pressure up to 7500 psi. Stress reducing 2-finger trigger with ergonomic handle and 2 fluid inlet options.

Airless Twist Tips—Tungsten carbide tips offer long life and a high quality finish with consistent spray pattern. Other sizes are available on Grainger.com®.



No. 41U073

Description	Max. Pressure	Inlet Size	Item No.
Airless Spray Gun	7,500 psi	¼ in	41U073
Airless Spray Gun Twist Tips			
Tip Size 0.015 in, Pattern Size 10 in			444P02
Tip Size 0.017 in, Pattern Size 8 in			444N98

SPEEDAIRE

Airbrush Kits

- 20 to 50 psi

Klts include air brush, head wrench, and impact resistant molded case.



No. 48PX91

Nozzle Size	Free Air CFM @ 40 psi	Item No.
Gravity Feed		
28mm	0.30	48PX91
Siphon Feed		
0.013"	0.30	48PX90

ASME Paint Tanks

BINKS

- Meet OSHA regulations for using flammable and combustible materials
- 2⅘-gal. capacity

ASME-coded, zinc-plated pressure tanks provide an economical option for supplying paint. Ideal for use with solvent-based coatings.

No. 41U068—Includes 1 regulator and 1 liner.

Nos. 2TKN8 and 6MVG3—Include 2 regulators and liner. No. 6MVG3 includes stainless cover and fluid outlet.

No. 2TKN8



Description	Mfr. Model	Item No.
Paint Tank	83C-210	41U068
	83C-220	2TKN8
	83Z-220	6MVG3
	83C-221	6URD2
Paint Tank w/ Spray Gun	98-3146	5PVF2
	98C-357	2TKN9
Tank Liner For Use with No. 2TKN9	PT-78-K60	6URE1

No. 6URD2—Includes direct drive agitator and 2 regulators.

No. 5PVF2—Includes Compact Spray Gun No. 5PVE9, 25-ft. air hose , 25-ft. fluid hose, and 15-ft. air supply hose assembly.

No. 2TKN9—Includes Conventional Spray Gun No. 19ZF51 with air cap and fluid nozzle, pressure tank with 2 regulators, 25-ft. fluid and air hoses, and 15-ft. air supply hose assembly.

HYDE

Airless Spray Gun Extension Poles

AnglePRO®—Allow access to hard-to-reach areas. Slide handle provides tip control for angles up to 145°. For use with all airless spray-tips.

QuickReach®—Telescoping poles give maximum extension for painting exteriors, cathedral ceilings or areas normally reached on a ladder. Can be used with all major brands of spray guns.

No. 1TKJ8



Trade Name	Item	L	Mfr. Model	Item No.
AnglePRO®	Spray Gun Extension Pole	3 ft.	28260	1TKJ8
		5 ft.	28270	1TKJ9
QuickReach®	Telescoping Spray Gun Extension Pole	5½ to 8½ ft.	28680	1TKJ6
		7½ to 12 ft.	28690	1TKJ7

3M

3M™ PPS™ Series 2.0 Spray Cup System Kits

Allows painters a more efficient method of mixing/measuring, filtering, and spraying; applying paint that is faster, easier, and cleaner. This disposable system provides a new cup in every lid and liner kit, prohibiting paint build-up. 4-pt. connection with quarter-turn lid locking system comes with every lid. Domed lid with full diameter filter helps reduce spitting, improving flow and consistency.



No. 478A74



No. 478A73

Cap.	All Include: (50) Disposable Lids, (50) Liners, (32) Sealing Plugs, (32) Sealing Plugs, (50) Disposable Lids, (50) Liners, 125 Micron Filter Mfr. Model	Item No.	(32) Sealing Plugs, (50) Disposable Lids, (50) Liners, 200 Micron Filter Mfr. Model	Item No.
3 fl oz	26328	478A82	26028	478A81
6.8 fl oz	26314	478A80	26114	478A79
13.5 fl oz	7100169346	478A78	26112	478A77
22 fl oz	26301	478A76	26000	478A75
28 fl oz	26325	478A74	26024	478A73

SPEEDAIRE®


No. 2Z363


No. 48PX84


No. 48PX83


No. 48PX87


No. 48PX85

BINKS®


No. 4YP08


No. 2TKP1


No. 19ZF50


No. 1ZLA7


No. 32KL79

DEVILBISS®


No. 41U070


No. 4TH07


No. 4TH06


No. 13E902


No. 13E903


No. 5PVE9


No. 5PVF0


No. 5PVF1


No. 6URD6


No. 6URD7

Conventional Spray Guns and Accessories

Description	Fluid Delivery Type	Paint Viscosity Optimum Range	Nozzle Size	Air Consumption	Pattern Size	Cup Capacity	Mfr. Model	Item No.
Speedaire®								
Conventional Spray Gun	Siphon/Pressure	Low to High	0.050"/1.3mm	2.0 cfm @ 40 psi	6½"	1 qt.	2Z363	**2Z363**
Conventional Spray Gun	Siphon/Pressure	Low to High	0.055"/1.4mm	5.3 cfm @ 40 psi	8"	1 qt.	35XR81	**35XR81**
Conventional Spray Gun	Siphon	Low to Medium	0.070"/1.8mm	2.8 cfm @ 40 psi	9"	6.7 oz.	48PX84	**48PX84**
Conventional Spray Gun	Siphon	Low to Medium	0.070"/1.8mm	7.2 cfm @ 40 psi	10"	1 qt.	48PX83	**48PX83**
Conventional Spray Gun	Pressure	Low to High	0.047"/1.2mm	9.3 cfm @ 40 psi	11"	No Cup	48PX82	**48PX82**
Conventional Spray Gun	Pressure	Low to High	0.045"/1.2mm	4.7 cfm @ 40 psi	11"	No Cup	48PX87	**48PX87**
Conventional Spray Gun	Siphon	Low to Medium	0.063"/1.6mm	4.4 cfm @ 40 psi	11"	1 qt.	48PX86	**48PX86**
Conventional Spray Gun	Siphon	Low to Medium	0.070"/1.8mm	4.4 cfm @ 40 psi	11"	1 qt.	48PX85	**48PX85**
Binks®								
Siphon Gun, Model 7 Series for High-Volume, Maintenance, and Auto	Siphon	Very Low to Medium	0.070"/1.8mm	11.5 cfm @ 50 psi	10"	1 qt.	6100-1808-9	**4YP08**
Siphon Gun, Model 2100 Series, includes 1 qt. cup	Siphon	Low to Medium	0.070"/1.8mm	12.1 cfm @ 50 psi	10½"	1 qt.	98-2650	**2TKP1**
Conventional Spray Gun, Model 2100 Series	Siphon	Low to Medium	0.070"/1.8mm	5.0 cfm @ 50 psi	10"	No Cup	2101-4307-5	**19ZF50**
Conventional Spray Gun, Model 2100 Series	Pressure	Low to Medium	0.046"/1.2mm	14.3 cfm @ 50 psi	14"	No Cup	2101-2800-7	**19ZF51**
Engine Cleaning Gun, Model 140B for use with Solvents	Siphon		0.128"/3.3mm	14.0 cfm @ 50 psi		No Cup	6530-0000-1	**1ZLA7**
Conventional Spray Gun - Trophy Series LVMP	Pressure	Medium	0.055"/1.4mm	10.6 cfm @ 30 psi	8" to 12"	No Cup	2465-14LV-23SO	**32KL79**
Conventional Spray Gun, 30 oz. - Trophy Series LVMP	Gravity	Medium	0.055"/1.4mm	10.6 cfm @ 30 psi	8" to 12"	30 oz.	2466-14LV-23SG	**32KL80**
Conventional Spray Gun, 4 oz. - Trophy Touch-Up LVMP	Gravity	Medium	0.045"/1.2mm	7.8 cfm @ 30 psi	4" to 6"	4 oz.	1466-12LV-B1S	**32KL82**
Binks® Accessories								
1-qt. Cup Assembly							TGC-545	**23UY69**
2-qt. Pressure Cup with Agitator							80-651	**41U069**
2-qt. Cup Liners (Pk. of 12)							80-356	**41U075**
DeVILBISS®								
Siphon Gun, EGA Series for use with Siphon and Pressure Systems	Siphon/Pressure	Low to Medium	0.042"/1.1mm	3 cfm @ 30 psi	10"	8 oz.	EGA-503-390F	**41U070**
Siphon Gun, JGA Series for all Paints	Siphon	Very Low to Medium	0.070"/1.8mm	14.0 cfm @ 60 psi	13"	1 qt.	JGA-654	**4TH07**
Pressure Gun, JGA Series for Large Applications	Pressure	Very Low to High	0.063"/1.6mm	12.0 cfm @ 45 psi	10"	No Cup	JGA-510-90FW	**4TH06**
Siphon Gun, FLG4 Series for use with Topcoats and Primers	Siphon	Medium	0.059"/1.5mm	10.4 cfm @ 40 psi	12"	24 oz.	FLG-CNS-115	**13E902**
Gravity Gun, FLG4 Series for use with Topcoats and Primers	Gravity	Medium	0.059"/1.5mm	10.4 cfm @ 40 psi	12"	24 oz.	FLG-CNG-115	**13E903**
Compact Trans Tech LVMP Pressure Gun	Pressure	Very Low to Medium	0.055"/1.4mm	14.5 cfm @ 29 psi	10½"	No Cup	COM-PS522G-14-00	**5PVE9**
Compact Trans Tech LVMP Siphon Gun	Siphon	Low to Medium	0.070"/1.8mm	10 cfm @ 25 psi	10½"	1 qt.	COM-PS510G-18-01	**5PVF0**
Compact Trans Tech LVMP Gravity Gun	Gravity	Very Low to Medium	0.055"/1.4mm	14.5 cfm @ 29 psi	14"	1L	COM-G510G-14-02	**5PVF1**
Compact Conventional Pressure Gun	Pressure	Very Low to Medium	0.055"/1.4mm	18 cfm @ 50 psi	12"	No Cup	COM-PS497-14-00	**6URD5**
Compact Conventional Gravity Gun	Gravity	Very Low to Medium	0.055"/1.4mm	12 cfm @ 50 psi	7 29/32"	1L	COM-G430-14-02	**6URD6**
Compact Conventional Siphon Gun	Siphon	Very Low to Medium	0.070"/1.8mm	12 cfm @ 50 psi	7 29/32"	1 qt.	COM-PS430-18-01	**6URD7**
DeVILBISS® Accessories								
Disposable Liner Kit for Gravity Feed Cups (Pk. of 48)							OMX-70-K48	**4TH28**
2-qt. Remote Pressure Cup with Regulator							KB-555	**4TH11**
Disposable Liner Kit for No. 4TH11 Cup (Pk. of 20)							KK-5051	**4TH30**
6-ft. Air/Paint Hose Assy. for No. 4TH11 Cup							KB-4006	**4TH31**
Gun Mounted Air Adjusting Valve with Gauge							HAV-501	**4TH22**
Gun Mounted Air Regulator with Gauge							HARG-510	**4TH15**
Gun Mounted Disposable Air Line Filter (Box of 12)							HAF-507-K12	**4TH16**



High Volume, Low Pressure (HVLP) Spray Guns

Description	Fluid Delivery Type	Paint Viscosity Optimum Range	Nozzle Size	Air Consumption	Pattern Size	Cup Capacity	Mfr. Model	Item No.
Binks®								
HVLP Spray Gun Kit (includes SV50 Full-Size Gun with 1.3mm Fluid Tip, 1.8mm Extra-Fluid Tip, and Touch-Up Gun with 1.1mm Fluid Tip)	Gravity	Very Low to Medium	0.051"/1.3mm	12.0 cfm @ 30 psi	10"	1 qt. 8 oz.	98-3170	**2TKP4**
Trophy Series	Pressure	Medium	0.055"/1.4mm	15.5 cfm @ 10 psi	8" to 12"	0 oz.	2465-14HV-32S0	**32KL77**
Trophy Series	Gravity	Medium	0.055"/1.4mm	15.5 cfm @ 10 psi	8" to 12"	30 oz.	2466-14HV-32SG	**32KL78**
Trophy Series Touch Up	Gravity	Medium	0.045"/1.2mm	6.4 cfm @ 10 psi	4" to 6"	4 oz.	1466-12HV-C1S	**32KL81**
DeVILBISS®								
JGA Series Gun with 1-qt. Cup	Siphon	Very Low to Medium	0.086"/2.2mm	22.0 cfm @ 50 psi	10"	1 qt.	JGA-660	**4TH17**
JGA Series Gun	Pressure	Very Low to Medium	0.042"/1.1mm	11.0 cfm @ 40 psi	11"	—	JGA-510-98FX	**4TH18**
JGA Series Gun	Pressure	Low to High	0.070"/1.8mm	22.0 cfm @ 50 psi	10"	—	JGA-510-57DE	**4TH19**
EXL Series Gun	Gravity	Very Low to Medium	0.070"/1.8mm	16.0 cfm @ 30 psi	12"	1 qt.	EXL-620G-18	**5AB33**
Compact Mini Touch-Up Gun	Gravity	Very Low to Medium	0.045"/1.2mm	4.5 cfm @ 29 psi	8"	8 oz.	COMM-HS1-12	**4YEG3**
EGA Series Gun	Siphon/Pressure	—	0.070"/1.8mm	3 cfm @ 30 psi	10"	8 oz.	EGHV-531-397E	**41U071**
FLG4 Series Gun	Siphon	Medium	0.086"/2.2mm	13.5 cfm @ 23 psi	11"	24 oz.	FLG-HVS-322	**13E904**
FLG4 Series Gun	Gravity	Medium	0.059"/1.5mm	13.5 cfm @ 23 psi	12"	24 oz.	FLG-HVG-315	**13E905**
FLG4 Series Gun	Pressure	Medium	0.059"/1.5mm	13.5 cfm @ 23 psi	13"	—	FLG-HVP-315	**13E906**
Compact Series Gun	Pressure	Very Low to Medium	0.055"/1.4mm	17.7 cfm @ 22 psi	15 45/64"	—	COM-PS507B-14-00	**6URD3**
Compact Series Gun	Gravity	Very Low to Medium	0.055"/1.4mm	17.7 cfm @ 22 psi	15 45/64"	24 oz.	COM-G507B-14DPC	**6URD4**

Airless Line Stripers

▪ See striping paints on page 1612

LineLazer™ 3400—This 1-gun, airless striper is perfect for small parking lots, schools, park and recreation departments, factory safety lines, and re-stripe jobs.

LineLazer™ 3900—This 2-gun airless striper is ideal for parking lots, roadways, athletic fields, and factory safety lines.

LineLazer™ 5900—Designed for larger striping jobs such as large parking facilities, roadways, athletic fields, and factory lines.

LineLazer ES—Powered by a high-output battery which allows it to be used safely indoors for factory safety lines as well as jobs where noise is a concern. No. 53JT70 includes 2 batteries.



Description	For Use With Grainger Item Number	Item No.
Accessories		
LineLazer Tip Medium Film	53JT67, 48YD42, 48YD43, 48YD44, 48YD45	**2WCW1**
LineLazer Tip Heavy Film	53JT67, 48YD42, 48YD43, 48YD44, 48YD45	**2WCW2**
Inlet Strainer	48YD42, 48YD43, 48YD44, 48YD45	**2LVU8**
Manifold Filter	53JT67, 48YD42, 48YD43, 48YD44, 48YD45	**2LVX1**
Pump Repair Kit	48YD42, 48YD43	**2LVU3**
Pump Repair Kit	48YD44, 48YD45	**2LVU4**

Description	Flow Rate	Second Gun Outlet	Waterborne Compatible	Max. Pressure	Max. Tip Size	Body Material	Mfr. Model	Item No.
LineLazer 3400, 1-Gun	0.75 gpm	No	Yes	3300 psi	0.027"	Steel	25M224	**53JT67**
LineLazer V 3900 Standard - 2 Manual Guns	1.2 gpm	Yes	Yes	3300 psi	0.036"	Metal	17H450	**48YD42**
LineLazer V 3900 Standard - 2 Automatic Guns	1.2 gpm	Yes	Yes	3300 psi	0.036"	Metal	17H453	**48YD43**
LineLazer V 5900 Standard - 2 Manual Guns	1.6 gpm	Yes	Yes	3300 psi	0.043"	Metal	17H455	**48YD44**
LineLazer V 5900 Standard - 2 Automatic Guns	1.6 gpm	Yes	Yes	3300 psi	0.043"	Metal	17H458	**48YD45**
LineLazer ES 1000 - 2 Automatic Guns	0.6 gpm	Yes	Yes	3300 psi	0.023"	Steel	25M226	**53JT69**

High Volume, Low Pressure (HVLP) Sprayers

CS MAX HVLP SPRAYER SYSTEM
▪ 2-Stage
Variable air pressure control reduces overspray and improves precision.

CAPSPRAY™ 75
▪ 3-Stage
Turbine features 25-ft. air hose. Use with stains, lacquers, enamels, and most multicolor coatings.

CAPSPRAY™ 95
▪ 4-Stage
Turbine features 30-ft. air hose.

HVLP POWER CART
Features 2½-gal. pressure pot and 30-ft. hose. For long applications use with Nos. 2PCX5 and 2PCX1.



Description	No. of Stages	Voltage	Amps	Max. Flow	Max. Pressure	Tank Cap.	Mfr. Model	Brand	Item No.
HVLP Paint Sprayer									
CS Max HVLP Sprayer System	2	115VAC	4.5	80 cfm	2.7 psi	1½ qt.	0518080	Wagner	**13C768**
CAPSPRAY™ 75	3	120VAC	10.7	90 cfm	7.5 psi	1 qt.	0524031	Titan	**2PCX5**
CAPSPRAY™ 95	4	120VAC	13.8	90 cfm	9.5 psi	1 qt.	0524032	Titan	**2PCX1**
Capspray Cart									
HVLP Power Cart	—	—	—	—	—	—	0524000	Titan	**48PE12**

Disposable Tank Liner

Straight-sided insert designed to fit a 2.8 gallon spray paint pressure feed tank No. 2TKN8. Lip snaps over the tank to prevent leakage between the insert and tank.

Description	Item No.
2.8 gal. Disposable Pressure Tank Liner, Pkg. of 10 Linear High Density Polyethelene, 9½"L, 10 11/32"W, Thickness 0.01 Mil	**5PB40**





No. 35YL16

Line Stripers and Accessories

TITAN

Clutch-driven piston line striper. Stainless steel rotating ball valves keep debris from sticking. Feature self-adjusting, 1-pc. static packing with wiper lip for longer life. Subaru gas engines operate quietly and start easily. Carry 5-gal. paint pail (not included). For a complete selection of striping paint, see page 1612.

POWRLINER™ 850
- Max. gpm: 0.33
- Max. psi: 3000

Unit features a reversible gun mount to stripe off either front or rear tire. Designed with folding handle and poly tires for smooth operation.

POWRLINER™ 3500
- Max. gpm: 0.92
- Max. psi: 3300
- Honda motor

Delivers a perfect line on difficult applications like smooth concrete and field and pavement marking. No piston or packings, cylinder or clutch to wear or burn out. Features the Sureflo™ pusher valve that makes priming easy. Perfect for spraying coatings prone to shearing.

Description	For Use With	Holds	Includes	Mfr. Model	Item No.
Airless Line Stripers					
PowrLiner™ 850	Latex Traffic Paint	5 gal. of Material	LX-40 Spray Gun	0290005	**35YL16**
PowrLiner™ 2850 2-gun	Latex and Solvent Based Paint	5 gal.	(2) RX-80 Spray Guns	0290009HG	**54TV15**
PowrLiner™ 3500	Latex and Solvant Based Traffic and Turf Paint	5 gal.	RX-80 Spray Gun, Pump	0537015	**54TV09**

Description	For Use With	Includes	Pattern Size	Tip Size	Mfr. Model	Item No.
Accessories						
Handibead™ Bead Dispenser Pack	Mfr. No. 0290004, 0290005, 0290009	Small Nozzle, Medium Nozzle and Large Nozzle	—	—	0290953A	**35YL08**
Windguard™ Spray Shield, 12" Size	0290004, 0290005, 0290009	Mounting Hardware	—	—	0290623	**35YL09**
Airless Spray Gun Tip	Mfr. No. 0290009, 0290005, 0290004	Collar and Seal	4" to 6"	0.023"	694-2308623	**35YL11**
Airless Spray Gun Tip	Mfr. No. 0290009, 0290005, 0290004	Collar and Seal	4" to 6"	0.021"	694-2108621	**35YL12**
Airless Spray Gun Tip	Mfr. No. 0290009, 0290005, 0290004	Collar and Seal	4" to 6"	0.019"	694-1908519	**35YL13**
Airless Spray Gun Tip	Mfr. No. 0290009, 0290005, 0290004	Collar and Seal	4" to 6"	0.017"	694-1708517	**35YL14**
Inlet/Outlet Valve Replacement Kit	Mfr. No. 0537015	—	—	—	0537903	**54TV10**
Laser Pointer	Mfr. No. 0537015	—	—	—	0290175	**54TV14**



No. 39AM04

GRACO

Airless Paint Sprayers

Spray a wide range of coatings. ProConnect™ Pump Removal System allows for fast, on-the-job pump swap-out. Compatible with 1- and 5-gal. containers. Includes contractor-grade metal gun, RAC X™ reversible spray tip, and 50 ft. of BlueMax™ II hose.

390 PC Stand— Lightweight, reliable stand features variable pressure adjustment and an offset handle.

FinishPro GX19 Stand—Features the ProXChange Pump, the fast and easy on-the-job pump replacement, no tools required.

FinishPro II 395 PC Cart—Sprays in both airless and air-assisted airless modes for ultimate versatility. Includes contractor-grade metal air-assist gun, 2 RAC X reversible spray tips (210 and 517), flat tip (309), and 50-ft. of fluid and air hose.

Description	HP	Flow Rate	Operating Pressure	Mfr. Model	Item No.
390 PC Stand	5/8	0.47 gpm	3300 psi	17C310	**39AM04**
FinishPro GX19 Stand	1/2	0.38 gpm	3000 psi	17F924	**48YD46**
Finish Pro II 395 PC Cart	7/8	0.43 gpm	3300 psi	17C417	**39AM07**

Description	Tip Size	Pattern Size	Item No.
Tips			
Airless Tip LTX 413	0.013"	8" to 10"	**2WCW8**
Airless Tip LTX 415	0.015"	8" to 10"	**2WCW9**
Airless Tip LTX 515	0.015"	10" to 12"	**2WCX1**
Airless Tip LTX 517	0.017"	10" to 12"	**2WCX2**
Airless Tip LTX 521	0.021"	10" to 12"	**2WCX3**
Airless Tip LTX 631	0.031"	12" to 14"	**2WCX4**
Airless Tip FFLP210	0.010"	4" to 6"	**53JT75**
Airless Tip FFLP310	0.010"	6" to 8"	**53JT76**
Airless Tip FFLP410	0.010"	8" to 10"	**53JT77**
Airless Tip FFLP212	0.012"	4" to 6"	**53JT80**
Airless Tip FFLP616	0.016"	12" to 14"	**53JT88**
Airless Tip Guard, 7/8" Thread	—	—	**2WCX9**
Airless Tip Guard, 1 1/16" Thread	—	—	**2WCY1**

Description	Max. Pressure	Nozzle Size	Item No.
Accessories			
Contractor FTx Airless Spray Gun	3600 psi	0.015"	**2WCW3**
Contractor Airless Spray Gun	3600 psi	0.017"	**2WCW4**
Airless In-Line Valve	3600 psi	—	**2WCY3**
Airless Spray Gun & Hose Kit	3600 psi	0.017"	**2WCW5**
Airless Hose 1/4" x 50 ft.	—	—	**2WCY2**
Pump Armor Fluid, 1 qt.	—	—	**2WCW6**
TSL Seal Liquid, 1 qt.	—	—	**2WCW7**
Endurance Lower Pump	—	—	**39CT94**
Pump Replacement Kit, ProXChange	—	—	**43LD26**
Express Pump, 2004 to 2014 Models	—	—	**43LD30**
Express Pump, 2015 and Newer Models	—	—	**43LD31**
Endurance Pump, 2004 to 2014 Models	—	—	**43LD32**



Sports Field Airless Striper

GRACO

- 35cc 4-stroke Honda GX engine
- Max. tip: 0.023"
- Max. gpm/lpm: 0.5/1.9
- Max. psi/bar: 900/62

For a complete selection of striping paint, see page 1612.

HP	Holds	Mfr. Model	Item No.
1.3	5 gal.	248942	**3FTT4**



TITAN

ControlMax™ HEA Paint Sprayers

- 1500 psi

System delivers more control at high speed with 55% less overspray while delivering softer spray, improving control and providing a more-consistent finish. HEA can spray unthinned coatings with a rebuildable fluid section that maximizes sprayer life.

Description	Style	Amps AC	Hose Length	HP	Flow Rate	Mfr. Model	Item No.
1500 High Efficiency Airless™	Stand	4.1	25 ft.	1/2	0.29 gpm	0580005	**54TU95**
1700 High Efficiency Airless™	Stand	4.3	30 ft.	5/8	0.33 gpm	0580009	**54TU96**
1700PRO High Efficiency Airless™	Cart	4.3	50 ft.	5/8	0.33 gpm	0580006	**54TU97**
1900PRO High Efficiency Airless™	Cart	4.4	50 ft.	45/64	0.40 gpm	0580008	**54TU98**

Tip Size	Pattern Size	Item No.
Tips		
0.013"	1" to 12"	**54TU99**
0.015"	1" to 12"	**54TV01**
0.017"	1" to 12"	**54TV02**
0.019"	1" to 12"	**54TV03**
Tip Guard		
N/A	1" to 12"	**54TV06**
Accessories		
Conventional Spray Gun		**54TV04**
50 ft. Rubber Hose		**54TV05**

GRACO WAGNER®

Texture Sprayers

RTX Series - Allows effortless "left-to-right" spraying, eliminating the need to constantly keep the gun in a circular motion. Offers less mist and fog in the pattern to increase transfer efficiency.

PowerTex™ - No need for a separate air compressor. Compatible with standard, aggregated, and unaggregated coatings, and diluted joint compound. Air turbine powered.



No. 48YD38

Description	Max. Flow	Hopper Cap.	Air Flow	Mfr. Model	Brand	Item No.
Sprayers						
RTX 1400si	1.4 gpm	10 gal.	6.1 cfm @ 20 psi	17H572	Graco	**48YD38**
RTX 2000pi	2.0 gpm	10 gal.	6.1 cfm @ 20 psi	17H573	Graco	**48YD39**
RTX 5000pi	5.0 gpm	15 gal.	6.6 cfm @ 20 psi, 8.6 cfm @ 20 psi	17H575	Graco	**48YD40**
PowerTex(TM)	0.2 gpm	1 gal.	—	0520000	Wagner	**1TNL8**
Accessories						
Airless Spray Gun Tip Kit				24S142	Graco	**48YD41**
Replacement Hose, ¾" x 25 ft., RTX				17J454	Graco	**43LD27**
Replacement Hose, 1" x 25 ft., RTX				17J420	Graco	**43LD28**



No. 1AGE9

GA GRAINGER APPROVED

Paint Spray Hose

Fitting Size	L	Temp. Range	Max. Pressure	Tube Material	Cover Material	Item No.
Airless Paint Spray Hose						
¼" NPSM(F)	25 ft.	-40° to 200°F	3300 psi	Nylon 11	Polyurethane	**1AGE9**
¼" NPSM(F)	50 ft.	-40° to 200°F	3300 psi	Nylon 11	Polyurethane	**1AGF1**
Material Hose						
¼" NPSM(F)	50 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR30**
⅜" NPSM(F)	15 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR31**
⅜" NPSM(F)	25 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR32**
⅜" NPSM(F)	50 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR33**
Multipurpose Paint Spray Hose						
⅜" NPSM(F)	15 ft.	0° to 190°F	200 psi	Nitrile	Neoprene	**1Z530**
⅜" NPSM(F)	25 ft.	0° to 190°F	200 psi	Nitrile	Neoprene	**2Z011**



No. 22DM29



No. 36WH30

WAGNER®

Paint Sprayer and Power Roller

FLEXIO™ 590 SPRAYER

Complete interior or exterior projects with a consistent finish, control and speed. From walls and fences, to fine finishing on trim and cabinets.

SMART SIDEKICK® POWER ROLLER

Continuous paint rolling 2 times faster and with less mess than a manual roller. Get an even finish, beginning to end with paint on demand drawing from a 1 or 5 gallon paint can.

Description	Cap.	Max. Flow	Speed	Spray Pattern	Voltage	Item No.
Sprayers						
Flexio 590 Handheld Paint Sprayer	1½ qt.	8 gph	Variable	Adjustable Horizontal and Vertical	120VAC	**22DM29**
Power Roller®						
SMART SideKick® Power Roller	1 to 5 gal.	—	—	—	120	**36WH30**

Handheld Paint Sprayer

GRACO

Airless sprayer is easy-to-set up and sprays up to 1 gal. with each charge. Gives precision pressure control that delivers a consistent spray fan without pressure fluctuations. Features reverse tip, making it easy to clean tip clogs. Disposable liner helps eliminate clean-up time. Ideal for spraying stains, sealers, oil and latex paints. Includes 4 oz. bottle pump armor, liner bag, mesh fluid filter, reversible tip, 2 Li-Ion batteries, charger, and tool bag.



Cap.	Max. Flow	Speed	Spray Pattern	Voltage	Item No.
32 oz.	0.20 gpm	Variable	Up to 12"	20VAC	**53JT65**

Description	Flow Rate	Spray Pattern	Item No.
Internal Mix			
360 Hollow Circular Fan Pattern	1.6 to 14.7 gph	53" dia.	**35XT50**
360 Hollow Circular Fan Pattern (No Drip)	1.6 to 14.7 gph	53" dia.	**35XT28**
Flat Fan Pattern	1.8 to 6.9 gph	18"W	**35XT49**
	0.8 to 3.2 gph	23"W	**49T503**
Flat Fan Pattern (No Drip)	1.8 to 6.9 gph	18"W	**35XT27**
	0.8 to 3.2 gph	23"W	**35XT22**
Round Fan Pattern	1.1 to 3.3 gph	7" dia.	**49T494**
	1.3 to 3.5 gph	16" dia.	**49T498**
Round Fan Pattern (No Drip)	1.1 to 3.3 gph	7" dia.	**35XT14**
	1.3 to 3.5 gph	16" dia.	**35XT18**
External Mix			
Flat Fan Pattern	1 to 3.8 gph	21"W	**49T517**
	1 to 3.8 gph	13"W	**49T513**
	2.5 to 7.5 gph	24"W	**49T518**
	2.5 to 7.5 gph	18"W	**49T514**
Flat Fan Pattern (No Drip)	1 to 3.8 gph	21"W	**35XT38**
	1 to 3.8 gph	13"W	**35XT34**
	2.5 to 7.5 gph	18"W	**35XT35**
Round Fan Pattern	1. to 3.8 gph	8" dia.	**49T508**
	2.5 to 7.5 gph	8½" dia.	**49T509**
Round Fan Pattern (No Drip)	1 to 3.8 gph	8" dia.	**35XT29**
	2.5 to 7.5 gph	24"W	**35XT39**
	2.5 to 7.5 gph	8½" dia.	**35XT30**
Siphon Fed			
Flat Fan Pattern	0.1 to 0.4 gph	15"W	**49T525**
	0.3 to 1.2 gph	25"W	**49T526**
Flat Fan Pattern (No Drip)	0.1 to 0.4 gph	15"W	**35XT46**
	0.3 to 1.2 gph	25"W	**35XT47**
Round Fan Pattern	0.2 to 0.8 gph	6 13/16" dia.	**49T521**
	0.3 to 1.9 gph	8" dia.	**49T522**
Round Fan Pattern (No Drip)	0.2 to 0.8 gph	6 13/16" dia.	**35XT42**
	0.3 to 1.9 gph	8" dia.	**35XT43**



Flat Fan Pattern No. 49T513



Round Fan Pattern (No Drip) No. 35XT42

Atomizing Spray Nozzles

No-drip nozzles positively stop liquid flow when the compressed air is shut off, saving costly liquids.

INTERNAL MIX

Mix the liquid and air inside the air cap for the finest atomization. Can be used on liquids with a viscosity up to 300 cp. Both air and liquid side are pressure fed.

EXTERNAL MIX

Designed for the highest flow rates. Allow the air and liquid flows to be adjusted independently. Ideal for where precise liquid flow is needed. Can be used on liquids with a viscosity above 300 cp. Both air and liquid sides are pressure fed.

SIPHON FED

Require no liquid pressure and can be used with gravity fed liquids or lift liquids from a 36-in. siphon height. Can be used on liquids with a viscosity up to 200 cp.



No. 40P310

Henry
#1 CHOICE OF PROFESSIONALS®

Sealants and Roof Coatings

Adhesive and Primer—Premium brush or squeegee grade, waterproof adhesive made from asphalt, solvents, and organic fibers.

Mastics and Cements—Flashmaster® assures resistance to weathering while providing ease of application by trowel. Wet Patch® Roof Leak Repair has a high resistance to weathering and provides excellent durability against the stresses and wear to which such mastics are normally exposed. Plastic Roof Cement is a premium trowel-grade sealant for dry surfaces.

Roof Sealants—Rubberized Wet Patch™ seals leaks around chimneys, vents, and skylights in wet or dry weather. Extreme Wet Patch™ is a rubber-modified roof sealant with excellent adhesion, especially at moving joints. Neoprene Flashing Sealant is a flashing grade, rubber-based sealant for high stress applications is nonflammable and nonasphaltic. Roofing Sealant helps prevent roof leaks prior to coating with an acrylic reflective coating. Roof Coating Repair Fiberglass Fabric is a woven mesh fabric that will not decay or rot. Coating on fabric reduces distortion and is acid and heat resistant. Solarflex® Elastotape® is a lightweight, nonwoven mat which is heat set. Excellent for new and old construction.

Asphalt Emulsion Roof Coating—Protective coating is nonflammable while wet, corrosion-resistant and waterproof when dry. Base coat for energy saving reflecting coatings.

Reflective Coating—Adds years of service and reflectivity to a roof surface.

Water-Based Acrylic Roof Coatings—Elastomeric and Solar-Flex® protective coatings are resistant to discoloration, disbanding, chalking, mildew, and fungi. They reflect the sun's heat and UV rays. Enviro Elastomeric helps prevent dust and dirt buildup and reflect UV rays. Dura-Brite Elastomeric is a high solids formula that expands and contracts without cracking. Ponding water-resistant.

Description	Size	Color	Item No.
Adhesive & Primer			
Cold-Ap Roof and Lap Adhesive	5 gal.	Black	**35LR66**
Mastics and Cements			
Flashmaster® Flashing Cement	5 gal.	Black	**53PZ34**
Wet Patch® Roof Leak Repair	5 gal.	Black	**53PZ33**
Plastic Roof Cement	3.5 gal.	Black	**35LR65**
Roof Sealants			
Rubberized Wet Patch™ Roof Leak Repair	10.1 oz.	Black	**40P297**
	0.9 gal	Black	**40P298**
	3.3 gal.	Black	**40P299**
Extreme Wet Patch Roof Leak Repair	10.1 oz.	Black	**40P302**
	0.9 gal	Black	**40P303**
Roofing Sealant	10.1 oz.	White	**40P305**
	0.9 gal	White	**40P306**
Roof Coating Repair Fiberglass Fabric	6" X 25' Roll	Yellow	**40P301**
Solarflex® Elastotape®	4" X 150' Roll	White	**40P309**
Asphalt Emulsion Roof Coatings			
Asphalt Emulsion Sealer and Dampproofer	0.9 gal	Black	**40P307**
	4.75 gal.	Black	**40P308**
Reflective Coating			
Aqua-Brite™ Aluminum Roof Coating	5 gal.	Silver	**35LR67**
Water-Based Acrylic Roof Coatings			
Elastromeric Roof Coating	4.75 gal.	White	**40P310**
Enviro Elastomeric Roof Coating	0.9 gal	White	**40P311**
	4.75 gal.	White	**40P312**
Dura-Brite Elastomeric Roof Coating	0.9 gal	White	**40P313**
	4.75 gal.	White	**40P314**
Solar-Flex® Protective Roof Coating	0.9 gal	White	**40P315**
	4.75 gal.	White	**40P316**

KST COATINGS
A Business Unit of The Sherwin-Williams Company
KOOLSEAL
REFLECTIVE ROOF COATINGS

Roof Coatings, Patching, and Repair Products



No. 4FJK8

Snow Roof® Premium Roof Coating—Goes on blue and dries to a bright white. Elastomeric reflects up to 90% of the sun's rays.

Kool Seal® Elastomeric Roof Coating—Stops leaks while extending the life of existing roofs. Reflects sunlight to save energy costs. No. 36MV74 is formulated using a 100% acrylic polymer.

Kool™ Lastik Primer—Use as a base to convert black surfaces to white reflective ones.

Storm Patch® All-Weather Rubberized Cements—Displace water from wet surfaces and create a tight seal. No. 36MV75 is made of asphalt-based cement with premium-grade aluminum pigment for a reflective finish. Seals quickly and will not pull apart or lose its bone. Remains soft and pliable. Nos. 36MV77 and 36MV78 have an aerosol formula that bonds and seals instantly to clean, dry surfaces.

Kool Seal® Acrylic Patching Cement—Stops leaks on damp or dry surfaces. Blends in on existing white roofs.

Flexx Sealer™ Permanent Leak Repair—Bonds immediately, seals instantly to clean dry surface. Never hardens, cracks, peels or shrinks.

Tundra™ Silicone Roof Coating—Provides ponding water resistance and superior finish with excellent flow and leveling. Adheres to most roofing material.

Description	Size	Color	Brand	Item No.
Snow Roof© Premium Roof Coating	4.75 gal.	White	KST	**4EEZ7**
Kool Seal® Elastomeric Roof Coating	4.75 gal.	White	KST	**4FJJ9**
Kool Seal® Premium Elastomeric Roof Coating	4.75 gal.	White	KST	**36MV74**
Kool™ Lastik Primer	4.75 gal.	Gray	KST	**4FJK1**
Storm Patch® All-Weather Rubberized Cements	10 oz.	Clear	Koolseal	**4FJK3**
Storm Patch® All-Weather Rubberized Cements	10.5 oz.	Black	Koolseal	**4FJK4**
Storm Patch® Aluminum Roof Patch	1 gal.	Silver	KST	**36MV75**
Storm Patch® Rubberized Leak Sealer	12 oz.	Black	KST	**36MV77**
Storm Patch® Rubberized Leak Sealer	12 oz.	Clear	KST	**36MV78**
Kool Seal® Acrylic Patching Cement	10.5 oz.	White	Koolseal	**4FJK6**
Kool Seal® Acrylic Patching Cement	115 oz.	White	Koolseal	**4FJK7**
Flexx Sealer™ Permanent Leak Repair	2" x 3 ft.	Gray	Koolseal	**4FJK8**
Flexx Sealer™ Permanent Leak Repair	2" x 10 ft.	Gray	Koolseal	**4FJL1**
TUNDRA™ Silicone Roof Coating	1 gal.	White	Koolseal	**411M22**
TUNDRA™ Silicone Roof Coating	5 gal.	White	Koolseal	**411M23**



No. 4HFE7

Ceiling Aerosols

ZINSSER
QUALITY SINCE 1849

Covers Up™ Paint—Low-odor, vertical aerosol spray sealer and finish for drop ceilings with water, smoke, and nicotine stains. Nonyellowing flat finish.

Bondex™ Ceiling Patch—Ready-mixed, latex-based, low-odor patching compound duplicates the look of popcorn (acoustic) ceiling finishes; repairs blemishes, scrapes, and water damage.

DRY TIME AND COVERAGE	Paint	Patch
Dry Time:	1 hr.	24 to 48 hr.
Coverage:	12-15 sq. ft.	†

† Dependent on ceiling aggregate.

Color	Net Wt.	Size	Item No.
Covers Up™ Paint			
White	13 oz.	—	**4HFE7**
Bondex™ Ceiling Patch			
White	—	1 qt.	**4HFG1**



No. 2AUT7



No. 39F173

Homax®
PRODUCTS, INC.

Drywall Spray Textures

A full range of wall textures for convenient, invisible repair.

Description	Base Type	Net Wt. (oz.)	Color	Covers (sq. ft.)	Dry Time	Item No.
Orange Peel Wall Texture	Oil	10	White	50	5 min.	**2AUT7**
	Oil	20	White	110	5 min.	**2AUT8**
	Oil	25	White, Tinted	125	5 min.	**39F172**
	Water	16	Sprays on Blue, Dries White	90	30 min.	**2AUT9**
	Water	25	White, Tinted	125	30 min.	**39F173**
Knockdown Wall Texture	Water	25	White, Tinted	75	30 min.	**39F174**
Popcorn Ceiling Texture	Water	14	White	8	24 hr.	**45MV56**
Pre-Mixed Ceiling Texture	Water	74	White	50	24 hr.	**444F39**
	Water	32	White	1	24 hr.	**444F41**
Pre-Mixed Wall Texture	Water	74	White	350	24 hr.	**444F38**
Wall Textured Spray Patch	Water	20	White	110	30 min.	**444F40**
Texture Sprayer, Hand Operated, 2.8 cu. ft. Hopper						**444F42**



Perma-Patch® No. 3ZC17



GreenPatch® No. 39F847

Asphalt Patch Paving Material

Sakrete®—No. 21HC48 tube fills cracks up to ½" wide. Not to be used in areas of prolonged contact with water. No. 21HC47 is a liquid formula used to fill cracks up to ½" wide. Accepts traffic after 5 days. No. 39UV47 has a full cure time of 2 days.

Perma-Patch®—Patches potholes, utility cuts, and cracks. Bonds permanently to asphalt, concrete, steel, and wood. Apply in any weather condition. No mixing. Dries immediately; cures faster under greater volumes of traffic. Compaction can be accomplished by hand tamping.

GreenPatch®—Ready-to-use VOC-compliant formula contains recycled asphalt and permanently repairs potholes and cracks in pavement. Workable in all weather and can be installed in standing water. Accepts traffic immediately after application.

Rust-Oleum®—Concrete Patch and Repair is a 2-part, industrial-strength epoxy that permanently bonds concrete, won't shrink or crack, and creates a surface stronger than concrete. For indoor/outdoor use. Fast curing; paintable in 8 hours. Easy mixing, low odor, no solvents.

Description	Coverage	Container Size	Mfr. Model	Item No.
Sakrete®				
Blacktop Crack Filler	25 ft. @ ¼" x ¼"	10.3 oz.	120040	**21HC48**
	160 ft. @ ¼" x ¼"	1 gal.	120039	**21HC47**
	40 ft. @ ¼" x ¼"	1 qt.	120041	**39UV47**
Perma-Patch®				
Permanent Pavement Repair	3 sq. ft. @ 1"	30 lb.	PP-30-CP	**13R450**
Black Asphalt Paving Compound	6 sq. ft. @ 1"	60 lb.	PP-60-C	**3ZC17**
GreenPatch®				
Pavement Repair Patch	3 sq ft @ 21" x 21" x 1"	40 lb.	GP40P	**39F847**
Cold Patch	4 sq ft @ 2' x 2' x 1"	50 lb.	GP50	**39F846**
Rust-Oleum®				
Concrete Patch and Repair	14 Linear ft. @ ½" x ½"	24 oz.	301012	**52JU46**

Concrete Mixes

- 50 lb. pail

Formulated with sand, gravel, and cement for repair and building jobs where concrete is more than 2" thick.

No. 21HC53 sets posts and poles easily without blending. Sets in 30 min.

No. 21HC52 includes fibers that help resist cracking due to shrinkage.

No. 21HC54 achieves 5000 psi strength. Also good for use in concrete countertops.

No. 21HC55 is a general purpose concrete mix with a strength of 4000 psi.



No. 21HC54

Description	Meets	Mfr. Model	Item No.
Fast Setting Concrete Mix	ASTM C-387 and ASTM C-270	120019	**21HC53**
Crack Resistant Concrete Mix	ASTM C-387	120018	**21HC52**
5000 Plus High Strength Concrete Mix	ASTM C-387	120020	**21HC54**
High Strength Concrete Mix	ASTM C-387	120021	**21HC55**

Tinted Concrete Mixes

TintCrete Resurfacer—Resurface or patch concrete with this colored resurfacing material. Trowel, broom, or brush onto existing concrete.

TintCrete Patch—Polymer-modified colored mortar formula withstands up to 4500 psi to resist cracks under rugged conditions.

TintCrete Concrete—Repair horizontal or formed areas with pourable colored concrete. Use to patch and repair concrete from 1" to full depth.

Color	Starts to Harden	Mfr. Model	Item No.
TintCrete Resurfacer, 50 lb.			
Beige	30 min. to 1 hr.	GRA-DLC-21	**15F511**
Gray	30 min. to 1 hr.	GRA-DLC-16	**15F520**
TintCrete Patch, 50 lb.			
Beige	20 to 40 min.	GRA-CT40-121	**15F512**
Black	20 to 40 min.	GRA-CT40-151	**15F518**
Gray	20 to 40 min.	GRA-CT40-160	**15F521**
TintCrete Concrete, 65 lb.			
Black	45 min. to 1.5 hr.	GRA-P38-1510	**15F519**
Red	45 min. to 1.5 hr.	GRA-P38-1310	**15F516**



No. 15F518

Driveway Asphalt and Coating



No. 40P317

Asphalt Resurfacer—Fills and seals rough surfaces and cracks in asphalt driveways. Features a 7x rubberized formulation for long life and durability. Stir gel formula applies easily, dries quickly, and reduces tracking.

E-Z Stir Asphalt Filler/Sealer—Do-it-yourself, easy-to-use formula stirs and applies easily. Reinforced for improved traction and durability.

Top-Kote Asphalt Coating—Smooths, preserves, and protects weathered asphalt driveways. Renews and gives a black appearance to surfaces.

Asphalt Pothole Patch—Use this solvent-based asphalt and aggregate compound to fill larger cracks and potholes. All-weather formula requires no mixing.

Asphalt Coating—Brush-applied sealcoat is ideal for home use. Stirs and applies easily.

Description	Container Size	Flash Point	Dry Time Recoat	Coverage	Item No.
Asphalt Resurfacer	4.75 gal.	212°F	4 hr.	250 to 500 sq. ft.	**40P317**
E-Z Stir Asphalt Filler/Sealer	4.75 gal.	212°F	4 hr.	250 to 500 sq. ft.	**40P318**
Top-Kote Asphalt Coating	4.75 gal.	212°F	4 hr.	300 to 400 sq. ft.	**40P319**
Asphalt Pothole Patch	11 lb.	170°F	Immediately After Compacting	2 sq. ft. x 1"	**40P320**
Asphalt Coating	55 gal.	212°F	4 hr.	2200 to 4400 sq ft.	**35LR68**



No. 21HC50



No. 52VY64

Concrete Cleaners and Dissolvers

Concrete and Asphalt Cleaner—Mild, acidic liquid used to clean concrete, masonry, and asphalt surfaces. Use to clean exiting surfaces prior to making repairs.

Concrete Mortar Disolver—A safe, environmentally-friendly liquid alternative to aggressive acid concrete removers. Used to remove dried on cement, concrete, mortar, or stucco from most surfaces.

Description	Container Size	Item No.
Concrete and Asphalt Cleaner	1 qt.	**21HC50**
Concrete Mortar Disolver	28 oz.	**52VY64**

Rockite® Expansion Cement

Develops a compression strength of 4500 lb./sq.-in. within 1 hr. For applications such as anchoring bolts, buildings, partitions, machines, appliances, tools, railings, hardware, and posts to concrete and other masonry floors and walls.

Starts to Harden	Container Size	Mfr. Model	Item No.
15 min.	5 lb.	10005	**6Z173**
	10 lb.	10010	**6Z174**
	50 lb.	10051	**6Z175**



No. 6Z173



No. 39H820



No. 39H819

CRACK•STIX

Crack Stix™ Permanent Concrete & Asphalt Joint & Crack Filler

Easy to use with no mixing: Cut pliable cord to length, hand-pack, and heat with a propane torch. It melts instantly and cures quickly, accepting traffic in less than 20 min. Creates a permanent watertight bond.

Container Size	Coverage	Color	Mfr. Model	Item No.
Concrete				
10 lb.	125 ft. @ ½" x ½"	Gray	2051	**39H820**
10 lb.	225 ft. @ ¼" x ¼"	Gray	2061	**30WM10**
Asphalt				
8 lb.	125 ft. @ ½" x ½"	Black	2050	**39H819**
10 lb.	250 ft. @ ¼" x ¼"	Black	2060	**30WM09**



No. 6ZFY3

Polymeric Jointing Sand

SEK SUREBOND

For use with concrete pavers, cast stone, and natural stone products in patio, walkway, and driveway applications. Material fills the joints between pavers, to help prevent weed growth and sand erosion due to rain or water run off.

Color	Container Size	Container Style	Item No.	Pkg. Qty.
Tan	50 lb.	Bag	**6ZFY3**	8
Gray	50 lb.	Bag	**6ZFY4**	8



RUST-OLEUM INDUSTRIAL BRANDS

100% Solids Flexible Joint Sealant

Container Size	Coverage	Item No.
9 oz.	5.5 sq. Ft.	**38W370**
22 oz.	13.3 sq. Ft.	**38W371**

2-component polyurea cures in 90 min. Designed to control joints in mild to severe industrial environments. For interior and exterior use.

ProSpec | AKONA MANUFACTURING, LLC | JE TOMES



No. 453T09

Refracting and Masonry Mortars

Refractory mortars are used for laying fire brick. Temp. range of 40° to 100°F. Masonry mortar is used for tuck pointing mortar joints. Temp. range of 40° to 90°F. Mortars are gray in color.

For Use On Surface Material	Coverage	Container Size	Starts to Harden	Brand	Mfr. Model	Item No.
Refractory Mortar						
Brick, Concrete, Stone, Wood	0.5 cu. ft.	10 lb.	1 hr.	Prospec	120913	**453T09**
	0.13 cu. ft.	50 lb.	1 hr.	Akona	104319	**453T08**
Masonry Mortar						
Masonry	35 sq. ft @ ⅜", 25 sq. ft. @ ½", 21 sq.ft. @ ⅝"	50 lb.	2.5 hr.	JE Tomes	N-3	**64UX18**

Geocel Setting the Standard®



Joint and Crack Repair

1500SL™ joint and crack repair is a high-performance, one-part, moisture curing, self-leveling sealant for concrete, masonry, or asphalt joints. Non-gassing property makes it ideal for high temperatures and humid conditions. Starts to harden in 2 hr. and fully cures in 3 days. Remains flexible and is resistant to UV rays.

Color	Coverage	Container Size	Mfr. Model	Item No.
Gray	11.2 to 67.4 Linear ft.	28 fl. oz.	GC99902	**488H53**



No. 4AUX7



No. 39UV63



No. 3EGC5

Concrete Crack Repair

PC Products | SAKRETE | DAP | FlexKrete Technologies | Titebond | ProSpec

PC Products—2-component epoxy gel works in temps, up to 115°F. Solvent-free and odor-free formula has a working time (20 min. at 75°F.); paintable after 4-hr.

Sakrete—No. 39UV52 is a flowable material designed to fill and seal cracks in concrete up to ¼"W and ¼"D. No. 39UV63 is trowelable and used for filling and sealing cracks in concrete up to 1" wide.

DAP®—Self-leveling for horizontal applications; for interior and exterior use.

FlexKrete—Dual Component, 600 ML total when mixed cartridge with static mixing tube.

Titebond®—High-performance self-leveling polymer sealant fills contraction/expansion joints and cracks in concrete decks and floors. Low VOC.

Prospec®—Clear, non-yellowing, acrylic polymer membrane ideal for curing, sealing, and hardening of concrete, terrazzo, brick, and other cementitious materials.

Item	Application	Size	Full Cure Time	Coverage	Mfr. Model	Item No.
PC Products						
Concrete Anchoring and Crack Repair	Use to Anchor Bolts/Rebar and Patch Cracks In Concrete	8.6 oz.	4 hr.	—	072561	**4AUX7**
		102 oz.	4 hr.	25.7 sq. ft.	071021	**4AUY2**
Epoxy Adhesive	Use to Anchor Bolts/Rebar and Patch Cracks in Concrete	2.80 oz.	4 hr.	4 hr.	070505	**25F532**
		1.69 oz.	4 hr.	4 hr.	070529	**25F533**
Sakrete						
Concrete Crack Repair	Concrete Repair	1 qt.	1 day	35 ft. @ ¼" x ½"	120026	**39UV52**
Pre-Mixed Concrete Patch		1 qt.	2 days	3 sq. ft. @ ⅛"	120547	**39UV63**
DAP						
Liquid Cement Crack Filler	Repairs Cracks and Surface Defects In Concrete, Self Leveling, Ready-Mixed Formula	1 qt.	1 hr.	—	37584	**1LYG4**
Flexkrete						
Polyurea Sealer, Concrete	Used As A Filler For Joints And Cracks	600mL Cartridges	—	—	FK-PS100 Kit	**3EGC5**
Titebond						
Self-Leveling Concrete Floor Joint Sealant	Construction/Expansion Joints and Cracks In Concrete Decks and Floors	10.1 oz.	1 day	31 ft. @ ¼" x ¼"	3191	**2GXU1**
Prospec						
Sealer	Commercial/Residential, Interior/Exterior, Masonry	1 gal.	4 hr.	300 sq. ft.	120823	**487A67**
	Commercial/Residential, Interior/Exterior	5 gal.	4 hr.	1500 sq. ft.	120822	**487A68**
		55 gal.	4 hr.	16,500 sq. ft.	120824	**487A69**

Item	Application	For Use With	Mfr. Model	Item No.	Pkg. Qty.
PC Products					
Static Mixing Nozzle	For Dispensing Concrete And Crack Repair	Mfr. No. 072561	072226	**4AUX8**	2



No. 39UV48



No. 1LYG7

Concrete Patching

Sakrete® Concrete Patch—Top 'n Bond patcher is a polymer-modified sand and cement repair mortar for resurfacing, patching, and general concrete repairs from featheredge to ½". Requires only the addition of water.

SAKRETE | DAP

DAP® Concrete Patch—Nonshrinking ready-mix dries to hard finish. For interior/exterior use.

Application	Full Cure Time	Container Size	Mfr. Model	Item No.
Sakrete® Concrete Patcher				
Concrete Repair	2 days	10 lb.	120031	**39UV64**
	1 day	50 lb.	120032	**39UV48**
DAP® Concrete Patcher				
Patch Cracks and Breaks	1 day	1 gal.	31090	**1LYG7**

RUST-OLEUM INDUSTRIAL BRANDS

Concrete Patching Compound

- 5499 system

2-component system: must use base and activator. Repairs cracks and damaged areas. No priming required. Accepts light foot traffic in 12 hr. Activator included. 100% solid.



Container Size	Color	Coverage	Item No.
2 gal.	Gray	12.5 sq. ft. @ 1/8"	5A279

TOMES

Fast Set 10-Minute Concrete Repair Compound

Permanently repairs cracks, spalls, concrete and deteriorated concrete. Can be applied in sub-zero temperatures.

No. 15F502 includes 2 pints each of Concrete Mender Parts A and B, 17 lb. of aggregate, plastic trowel, rubber gloves, mixing bucket, and 3 lb. of dry latex concrete resurfacer.

No. 15F504 includes 2 Concrete Mender cartridges, 2 flow controllers, 2 static mixing tips, 10 lb. of aggregate, plastic trowel, rubber gloves, and 3 lb. of dry latex concrete resurfacer.



No. 15F502

No. 15F507 includes Concrete Mender cartridges, 15 flow controllers, and 15 static mixing tips.

Container Size	Mfr. Model	Item No.
1.5 gal.	JET-28	15F502
2 Cartridge Kit	JET-2	15F504
12 Cartridge Kit	JET-12	15F507

RUST-OLEUM INDUSTRIAL BRANDS

Concrete Repair

InstaPatch® Concrete Repair Kit—2-component polyurea repair compound cures in less than 15 min. Can be applied in temperatures as low as -5°F. 100% solid.

TurboKrete® Epoxy Repair Kit & Nozzles—Fast-curing, nonsag epoxy is used for vertical and horizontal repairs. 100% solid.



No. 30RK20



No. 6DNX5

Description	Coverage	Includes	Item No.
InstaPatch®			
Concrete Repair Kit	230 sq. ft.	½ gal. Part A and ½ gal. Part B	30RK20

Description	Item No.
TurboKrete®	
Epoxy Repair Kit, 9 oz. Cartridge	6DNX5
Static Mixing Nozzle, 3 Nozzles	6DNX6

No. 2VRN1

LOCTITE

Loctite® PC9410™ Magna-Crete™

2-component, concrete repair and grouting system. Bonds to most common construction materials.



Application	Container Size	Mfr. Model	Item No.
Compressive Strength 13,000 PSI, Rapid Setting, Chemically Resistant, Summer and Winter Additives Also Available to Aid Cure Times	1 gal.	235572	2VRN1
	5 gal.	235573	2VRN2

RUST-OLEUM INDUSTRIAL BRANDS

TurboKrete® Concrete Patching Kit

Repairs large cracks and deep holes. Can accept vehicular traffic in 6 to 8 hr. 3 to 4x stronger than concrete. 100% solid.



No. 6KP53

Description	Container Size	Coverage	Item No.
Small Kit	27.5 fl. oz. (Part A) Base, 4 fl. oz. (Part B) Activator, 13.1 lb. (Part C) Aggregate	0.15 cu. ft.	5XPP2
Large Kit	55 fl. oz. (Part A) Base, 8 fl. oz. (Part B) Activator, 26.25 lb. (Part C) Aggregate	7.5 sq.ft	6KP53

FlexKrete Technologies

No. 3EGA8

FlexKrete Concrete Repair and Primer

FlexKrete 102 mortar for long-term repair is 3x harder than concrete. Flex-Prime has excellent wet out properties blocking out moisture, providing deep pentration.



Application	Container Size	Color	Mfr. Model	Item No.
FlexKrete 102 Concrete Repair Compound				
Repair Concrete, Asphalt, Steel, Wood, Fiberglass, Marble, Build Ramps, Seamless Floors, Resurface Concrete, Repair Anchor Bolts, Vertical/Horizontal and Overhead Sites, Non-skid Surface, ADA, Bridge Repair, Drain Repair, Manhole Repair	1 gal.	Gray	FK102G-KIT	3XJC3
	5 gal.	Gray	FK-102G	3EGA8
	5 gal.	Clear	FK-102C	3EGC1
Flex-Prime Concrete Primer, 2-Component				
Use As A Penetrating And Bonding Agent	(2) 1-gal. Jugs	Clear	FK-Primer	3EGC7



No. 1LYG5



No. 39UV65



No. 15F530

Hydraulic Cements

Quick Plug—Stops running water through deep cracks, holes, and imperfections in concrete surfaces, both above and below ground level.

Hydraulic Cement—Stops the flow of water through breaks in concrete or masonry walls and floors. Rapid setting with initial set-time of 1 to 3 min. and final set in 3 to 4 min.

Concrete Foundation Repair Leak Stop, Anchoring—Quickly stop active leaks, plug holes, repair foundation walls and anchor equipment.

Starts to Harden	Full Cure Time	Container Size	Mfr. Model	Brand	Item No.
Quick Plug Hydraulic Cement					
3 min.	28 days	5 lb.	14086	DAP	1LYG5
3 min.	28 days	10 lb.	14090	DAP	10L517
Hydraulic Cement					
3 min.	2 days	50 lb.	120030	Sakrete	39UV65
Concrete Foundation Repair Leak Stop, Anchoring					
3 min.	1 hr.	3 lb.	C118	Hydro Plug	15F529
3 min.	1 hr.	10 lb.	C120	Hydro Plug	15F530
3 min.	1 hr.	50 lb.	C121	Hydro Plug	15F531

Anchoring Cements

2-component system for repairing spalled or deteriorating concrete. Can be used for overhead repairs. Solvent-free, high-strength, high-modulus, moisture intensive repair epoxy.



Starts to Harden	Full Cure Time	Container Size	Mfr. Model	Item No.
15 min.	4 hr.	1 gal.	071120	5UXR4



No. 7AJ42

RUST-OLEUM INDUSTRIAL BRANDS

Concrete Saver® 100% Solids Epoxy Floor Coating

- 6500 system
- Low odor

2-component system withstands heavy wear, rubber-tire vehicle traffic, and power washings. Excellent abrasion, impact, and chemical resistance.

Description	Item No.
Primer/Sealer	
Clear Base and Activator System	120U82
High Gloss Paint	
Clear	7AJ42
Dunes Tan	7AJ44
Navy Gray	7AJ46
Silver Gray	7AJ45
Tile Red	7AJ43

DRY TIME AND COVERAGE	Primer/ Sealer	Paint
Dry Time:	8 to 24 hr.	72 hr.
Coverage:	180 to 260 sq. ft./gal.	100 to 200 sq. ft./gal.
VOC Content:	<250g/L	<100g/L



No. 64UX16

TOMES

Concrete Sealers

White liquid is for use in concrete and masonry; dries clear and invisible. Starts to harden in 2 hrs. and cures in 1 to 2 days. Can be re-coated in 1 to 2 days.

Container Style	Container Size	Coverage	Item No.
Bottle	1 gal.	100 to 300 sq. ft.	64UX16
Pail	5 gal.	500 to 1500 sq. ft.	64UX17



RUST-OLEUM INDUSTRIAL BRANDS

Concrete Saver® Fast-Cure Epoxy Floor Coating

- 6200 system
- Dry time: 48 to 72 hr.
- Coverage: 175 to 350 sq. ft./gal.
- VOC content: <250g/L

Resists corrosion, abrasion, traffic, and mild chemical spills.

▶CHOOSE: Color	Item No.
Silver Gray, Dunes Tan	H7196



No. 30RL95

RUST-OLEUM INDUSTRIAL BRANDS

FastKote® Polyurea Floor Coating

Protect against chemicals and abrasion in commercial and industrial facilities. Easy roller application fully cures and accepts vehicles traffic in only 24 hr. Use Fastkote® UV for areas prone to sun exposure. 1-gal.

Description	Dry Time Recoat	Coverage	Item No.
FastKote®, Interior			
Gray	2 hr.	400 sq. ft.	30RL95
Tan	2 hr.	400 sq. ft.	30RL96
Light Gray	2 hr.	400 sq. ft.	30RL97
Safety Yellow	2 hr.	40-50 sq. ft./gal.	30RL98
FastKote® UV, Interior/Exterior			
Clear	3 hr.	400 sq. ft./gal.	30RL99
Safety Yellow	3 hr.	40-50 sq. ft./gal.	30RM01
Gray	3 hr.	40-50 sq. ft./gal.	30RM02
Light Gray	3 hr.	150-200 sq. ft.	30RM04



No. J1441

H&C® Concrete Floor Coating and Stain

INFUSION™ Water-Based Semi-Transparent Stain—Creates the look of acid stain. Penetrates into the concrete for a faux layered look. A clear coat is required.

COLORTOP™ Water-Based Solid Color Concrete Stain—Provides a decorative finish to interior or exterior concrete and masonry surfaces.

CONCRETEREADY® Etching Solution—Opens the pores of the concrete so concrete stains and sealers can bond properly with the substrates. Removes efflorescence, reducing the pH level of new concrete and new mortar joints.

SHARKGRIP® Slip-Resistant Additive—Stirs into most oil-based and water-based paints and other coatings for fine texturing, and gloss reduction.

▶CHOOSE: Color	Size	Item No.
INFUSION™ Water-Based Semi-Transparent Stain		
Semi-Trans Cordovan, Semi-Trans Espresso, Semi-Trans Henna, Semi-Trans Tumbled Stone	1 gal.	J1441
Automn Breeze, Cocoa Bean	1 gal.	J5611
COLORTOP™ Water-Based Solid Color Concrete Stain		
Bombay, Gull Gray, Terra, Tile Red	1 gal.	J5610
CONCRETEREADY™ Etching Solution		
Clear	1 gal.	38EK68
SharkGrip® Slip Resistant Additive		
White	16 oz.	38EK69
White	19 lb.	38EK72



No. 4VYH1

Industrial Concrete Floor Sealers and Clear Coatings

RUST-OLEUM INDUSTRIAL BRANDS

DRY TIME AND COVERAGE	5500 System	EasyClear®	6711 System
Dry Time:	12 hr.	10 hr.	24
Coverage:	150 to 400 sq. ft./gal.	325 to 535 sq. ft./gal.	40 to 50 sq. ft./gal.
VOC Content:	<100g/L	100g/L	<250g/L

Description	Brand	Item No.
5500 System Dustproofer/Floor Sealer	Concrete Saver	4VYH1
EasyClear® Epoxy Maintenance Floor Coating	Rust-Oleum	6DNX4
6711 System Polyurethane	Rust-Oleum	4MG61



No. 3BU19

Garage Floor Coating Kits

RUST-OLEUM INDUSTRIAL BRANDS
RUST-OLEUM EPOXYSHIELD

SURFACES: Concrete

EpoxyShield® Professional—2-component finish strengthens and protects concrete floors. Resists chemicals and standing water. 2 gal.

EpoxyShield® Garage Floor—One coat brightens floor with a clean, glossy, water-based coating. Protect against gasoline, antifreeze, motor oil, salt, hot tire pickup and cracking. 1 gal.

Color	Mfr. Model	Brand	Item No.
EpoxyShield® Professional			
Silver Gray	203373	Rust-Oleum	3BU19
Dunes Tan	238466	Rust-Oleum	1TBG3
Dark Gray	238467	Rust-Oleum	1TBG4
Tile Red	238468	Rust-Oleum	1TBG5
Clear	292514	Rust-Oleum	52JU45
EpoxyShield® Garage Floor			
Gray	251965	Epoxyshield	6KP68
Tan	251966	Epoxyshield	6KP69

DRY TIME AND COVERAGE	EpoxyShield® Professional	EpoxyShield® Resurfacer	EpoxyShield® Garage Floor
VOC Content:	less than 10g/L	less than 10g/L	<100g/L
Light Traffic :	3 to 6 hr.	3 to 6 hr.	24 hr
Coverage:	150 to 200 sq. ft./gal.	125 sq. ft./gal.	250 sq. ft.

Hard Hat ANSI Classifications

ANSI/ISEA-Z89.1-2014
Describes the impact-resistance and electrical-insulation properties of the hard hat.

Impact and Electrical-Insulation Classifications
Type I: Reduces the force of impact caused by a blow to the top of the head only.
Type II: Reduces the force of impact from a blow to the top and side of the head.

Class C-Conductive: Provides no protection from electrical hazards.
Class G-General: Provides low-voltage protection up to 2.2KV.
Class E-Electrical: Provides high-voltage protection up to 20KV.

Hard Hat Suspension Types

Pinlock
Feature a band with evenly spaced holes on one end and pins on the other end that fasten for a comfortable fit.

Ratchet & Swing-Ratchet
Feature a knob for tightening or loosening the band to customize the fit. Swing-ratchet suspension helmets let wearers reverse the position of the helmet without removing the suspension frame.

One-Touch & Staz-On
One-Touch have a clip that is squeezed and slid along the band to adjust fit. Staz-On suspension helmets have a band with evenly spaced holes on one end and pins on the other end that fasten to adjust.


No. J5421


No. D0311


No. D0366


No. J5423


No. J5114


No. J6000

Condor | MSA The Safety Company | Honeywell North | 3M | Bullard | Honeywell Fibre-Metal

General Purpose Hard Hats - Type 1, Class E

Type 1, Class E non-vented hard hats protect against vertical impacts and high-voltage conductors (up to 20KV). These hard hats are used by construction workers, road crews, and other workers as required by OSHA. Front and full brim protect the face from sun, reduce glare, and help shed rain. Full brim protects the face and neck. See Grainger.com® for available colors.

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)						
Polyethylene	Condor	SL	Yes	**J5421**	—	—
Polyethylene	MSA	V-Gard®	Yes	**D0311**	Yes	**D0366**
Polyethylene	Honeywell North	North Zone™	Yes	**J5113**	—	—
Ratchet (4-Point)						
Polyethylene	Condor	SL	Yes	**J5422**	No	**J5423**
Polyethylene	MSA	V-Gard®	Yes	**D0312**	Yes	**D0367**
Polyethylene	MSA	SmoothDome®	Yes	**D0371**	—	—
Polyethylene	Honeywell North	North Zone™	Yes	**J5114**	Yes	**J6000**
Polyethylene	3M	H-800	—	—	No	**H3920**
Ratchet (6-Point)						
Polyethylene	Bullard	Classic	—	—	No	**E5091**
Ratchet (8-Point)						
Thermoplastic	Honeywell Fibre-Metal	SuperEight	Yes	**G5189**	No	**G5183**
Swing Ratchet (8-Point)						
Thermoplastic	Honeywell Fibre-Metal	SuperEight	No	**G5190**	No	**G5184**





MSA The Safety Company

General Purpose NFL Front-Brim Hard Hats—Type 1 Class E

NFL non-vented hard hats can be printed with the logo and colors of any team. A front brim protects the face from sun, reduces glare, and helps shed rain. Type 1, Class E hard hats protect against high-voltage conductors (up to 20KV) and vertical impacts to the top of the head. They are used by construction workers, road crews, and other workers as required by OSHA.

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.
One-Touch (4-Point)				
Polyethylene	MSA	V-Gard®	Yes	**D0375**


U.S. Flag w/ Eagle No. H0843


Camouflage No. H0843

Stars & Stripes No. H0843



White w/Large U.S. Flag No. H0843




Stars & Stripes w/ Eagle No. H0843


White w/Small U.S. Flag No. H0843

Stars & Stripes No. J5167



Stars & Stripes w/ Eagle No. J5167



MSA The Safety Company

Freedom Series™ V-Gard® Hard Hats - Type 1, Class E

Patriotic full-brim hard hats are printed with symbols of national pride, such as flags and eagles. Type 1, Class E hard hats protect wearers from vertical impacts to the top of the head and high-voltage conductors (up to 20KV).


Camouflage No. J5167

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Ratchet (4-Point)						
Polyethylene	MSA	Freedom Series®	Yes	**H0843**	No	**J5167**

For Hard Hat ANSI classifications, see page 1635.



Black



Tan



White

OccuNomix

Western-Style Hard Hats - Type 1, Class E

Western-style hard hats (Type 1, Class E) protect workers from vertical impacts and have a brim around the entire hat to protect from sun and glare. Cowboy-style side brims curve up to direct water and rain to run off the back of the hat. Type 1, Class E hard hats protect workers from vertical impacts and high-voltage electrical hazards up to 20KV.

Material	Accessory Slots	Series	Item No.
Pinlock (6-Point)			
Polyethylene	No	Vulcan	**E3812**
Ratchet (6-Point)			
Polyethylene	No	Vulcan	**E3811**



No. J5165



No. 4MD46



No. D0373



No. E5090



No. 42PD50



No. G5187

MSA The Safety Company · 3M · Bullard · Honeywell Fibre-Metal

Heat-Resisting Hard Hats—Type 1, Class G

These hard hats are constructed of heat-resistant material that resists damage when exposed to high temperatures. They are used in applications such as metalworking, forging, welding, and smelting. ANSI Type 1 hard hats protect against vertical impacts to the top of the head. Class G provides low voltage protections (up to 2.2KV). Front brims reduce glare and shade the eyes and face from overhead sun. Full brims protect the face and neck. See Grainger.com® for available colors.

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)						
Phenolic	MSA	Skullgard®	No	**J5165**	—	—
Ratchet (4-Point)						
Glass-Reinforced Nylon	MSA	Thermalgard®	Yes	**D0373**	—	—
Phenolic	MSA	Skullgard®	No	**F8827**	No	**4MD46**
Glass-Reinforced Nylon	3M	Elevated Temperature	Yes	**J5442**	—	—
Ratchet (6-Point)						
Polyethylene	Bullard	Classic	Yes	**E5090**	—	—
Ratchet (8-Point)						
Thermoplastic, Fiberglass	Honeywell Fibre-Metal	Roughneck P2A	No	**G5194**	—	—
Fiberglass, Thermoplastic	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5192**	—	—
Thermoplastic	Honeywell Fibre-Metal	Roughneck P2HN	Yes	**G5197**	—	—
Thermoplastic	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5195**	—	—
Thermoplastic	Honeywell Fibre-Metal	Roughneck P2HN	No	**G5198**	—	—
Thermoplastic	Honeywell Fibre-Metal	SuperEight	No	**G5186**	—	—
Fiberglass	Honeywell Fibre-Metal	P1	—	—	No	**42PD50**
Swing Ratchet (8-Point)						
Thermoplastic	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5193**	—	—
Thermoplastic	Honeywell Fibre-Metal	SuperEight	Yes	**G5187**	—	—



No. 5KAW8



No. 5KAW9



No. H0853

MSA The Safety Company

Miner's-Style Hard Hats—Type 1, Class G

Miner's hats sit closer to the head than traditional hard hats, giving it a slightly lower profile for working in close quarters. Iintegrated hardware allows a lamp to be attached. Type 1, Class G hard hats protect against vertical impacts and provide low-voltage protection up to 2.2KV. See Grainger.com for available colors.

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)						
Phenolic	MSA	Skullgard®	No	**5KAW8**	No	**5KAW9**
Staz-On						
Polycarbonate	MSA	Comfo-Cap	No	**H0853**	—	—



No. D0368



No. H3923

ERB Safety Products for LIFE. Bullard

3M MSA The Safety Company

Vented Hard Hats—Type 1, Class C

- Polyethylene

Vented hard hats help dissipate heat to keep workers cool. Type 1 hard hats protect wearers from vertical impacts. Vents on these Class C hard hats allow a clear path for electrical arcing, so they should not be used in locations where electrical hazards are present. Front brims protect the face from sun, reduce glare, and help shed rain. Full brims protect the face and neck and are worn in harsh sun. See Grainger.com® for available colors.

Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)					
Erb Safety	Americana	Yes	**J5463**	No	**J5465**
Erb Safety	Americana	Yes	**J5463**	No	**J5465**
Erb Safety	Americana	Yes	**J5463**	No	**J5465**
Bullard	S62	Yes	**E3824**	—	—
Ratchet (4-Point)					
Erb Safety	Americana	Yes	**J5462**	No	**J5464**
Erb Safety	Americana	Yes	**J5462**	No	**J5464**
Erb Safety	Americana	Yes	**J5462**	No	**J5464**
Erb Safety	Americana	—	—	No	**J5464**
3M	H-700	Yes	**G5160**	—	—
3M	H700 Uvicator®	Yes	**G5162**	—	—
3M	H-800	—	—	No	**H3921**
3M	H-800	—	—	No	**H3921**
3M	H800 Uvicator®	—	—	No	**H3923**
3M	H800 Uvicator®	—	—	No	**H3923**
Bullard	S62	Yes	**E3825**	—	—
MSA	V-Gard® 500	Yes	**D0368**	—	—
MSA	V-Gard® 500	Yes	**D0368**	—	—
Ratchet (6-Point)					
MSA	V-Gard® 500	Yes	**D0369**	—	—
MSA	V-Gard® 500	Yes	**D0369**	—	—



No. K2049

3M PETZL KASK

Work-at-Height Vented Climbing Helmets—Type 1, Class C

- ABS material
- With accessory slots

Type 1, Class C climbing helmets protect the head from vertical impacts caused by falling objects. Class C helmets are conductive and should not be used in locations where electrical hazards are present. These helmets have vents to allow air to circulate to keep workers cool. Climbing helmets enclose the backs and side of the head and have a chin strap to keep the helmet in place if a fall occurs. See Grainger.com® for available colors.

Brand	Series	Item No.
Ratchet (6-Point)		
3M	SecureFit™ X5000	**K2049**
Petzl	Vertex	**K2065**
Petzl	Strato Alveo	**K2068**
Petzl	Strato Vent	**K2069**
Kask	Super Plasma	**53DH68**



No. K2050

KASK PETZL 3M

Work-at-Height Climbing Helmets—Type 1, Class E

- ABS material
- Accessory slots

Type 1, Class E work-at-height climbing helmets protect the head from vertical impacts caused by falling objects. Class E helmets are non-conductive and provide high-voltage protection up to 20KV. Climbing helmets enclose the backs and side of the head and have a chin strap to keep the helmet in place if a fall occurs. See Grainger.com® for available colors.

Brand	Series	Item No.
Ratchet (6-Point)		
Kask	Zenith	**53DH82**
Petzl	Vertex	**K2064**
3M	SecureFit™ X5000	**K2050**

Honeywell North ERB Safety Products for LIFE. MSA The Safety Company Bullard

Top- and Side-Protecting Hard Hats—Type 2, Class E

- Polyethylene

Type 2, Class E hard hats are padded to provide protection against vertical and angled impacts up to 60°. Padding makes these hard hats heavier and more bulky than Type 1 hard hats. They are rated Class E for high-voltage electrical protection up to 20KV. Type 2 helmets are worn when indicated by OSHA or where swinging objects (such as hooks or chains) are present. Front brims shade the face and eyes from sun and help reduce glare. Full brims also shade the neck. See Grainger.com® for available colors.

Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Ratchet (4-Point)					
Honeywell North	Matterhorn A89	Yes	**G5765**	—	—
Honeywell North	North	Yes	**G5765**	—	—
Erb Safety	Omega II®	Yes	**J5466**	—	—
MSA	Super-V	Yes	**K2045**	—	—
Bullard	Vector	Yes	**E5647**	—	—
Bullard	Vector Type II	Yes	**E5647**	—	—
Erb Safety	Americana	—	—	No	**J5467**



No. J5467


No. G5759


No. G7578


No. G7579


No. J6837

OccuNomix · Condor · SURFLEX PROTECTION · ergodyne

Baseball-Style Bump Caps

- Hook-and-loop adjustment
- Inner ABS shell

These bump caps have a traditional baseball cap over a bump cap insert. They are often worn by contractors, exterminators, and other workers who might bump into stationary objects such as beams or piping. Bump caps are not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

Bump Cap Style	Head Protection Venting	Includes LED Lights	▶CHOOSE: Color	Brand	Item No.
Baseball Cap	Yes	No	Tan, Black	Condor	**G5759**
Baseball Cap	No	No	Dark Blue, Black, Green	Occunomix	**E9470**
Baseball Cap	Yes	No	Beige, Black, Green, Gray, Dark Blue, Orange, Red, White, Yellow	Surflex	**G7578**
Winter Baseball Cap	Yes	No	Beige, Black, Dark Blue, Yellow	Surflex	**G7579**
LED Baseball Cap	Yes	Yes	Black, Dark Blue	Surflex	**G7581**
Micro/Short Baseball Cap, Front Brim	Yes	No	Hi-Visibility Green, Dark Blue, Black	Skullerz By Ergodyne	**H9899**
Micro/Short Baseball Cap, Front Brim	Yes	Yes	Hi-Visibility Green, Black, Dark Blue	Skullerz By Ergodyne	**J6837**


No. G5758


No. D0374


No. E3813


No. J5343

Condor · MSA The Safety Company · Honeywell NORTH · ERB Safety Products for LIFE.

Traditional-Style Bump Caps

- Available in blue, green, orange, red, white, and yellow; high-visibility and other colors, available on Grainger.com
- Polyethylene
- Pinlock suspension

Head Protection Venting	Brand	Item No.
Yes	Condor	**G5758**
No	MSA	**D0374**
Yes	Honeywell North	**E3813**
Yes	Erb Safety	**J5343**

These bump caps protect workers from minor injuries caused by bumping into a stationary object. Caps are generally worn by workers in confined spaces, crawl spaces, or near overhead piping. They resemble a traditional hard hat and are made of plastic so they can be used in food manufacturing. Bump caps are not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

Condor · Honeywell NORTH · ERB Safety Products for LIFE. · ergodyne


No. 23Z356

Bump Cap Inserts

Hard plastic bump cap inserts are worn under any hat or baseball cap to protect workers from cuts, minor bumps, and other injuries caused by walking or moving into a stationary object. Bump caps are not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

Material	Head Protection Venting	▶CHOOSE: Color	Brand	Item No.
ABS	Yes	Black	Condor	**23Z356**
Polyethylene	No	White	Honeywell North	**2KDZ5**
Polyethylene	Yes	Black	Erb Safety	**41N875**
Polypropylene	Yes	Gray	Skullerz By Ergodyne	**462P29**


No. 52LD17


No. 52LD15


No. 23V891

Condor · MSA The Safety Company · Honeywell NORTH · Honeywell FIBRE-METAL

Hard Hat and Helmet Suspensions

- Suspension brand and helmet brand must be the same

Suspensions are the part of the hard hat or helmet that rests on the wearer's head. They provide a gap between the headgear and head, which helps absorb shock and redirect impact force away from the head and spine. Suspensions should be replaced yearly as part of normal maintenance and inspection practices, or earlier if the suspension shows signs of wear.

For Use With	Fits Hat Size	Item No.
Pinlock (4-Point)		
Condor		
Front Brim 52LC84, 52LC85, 52LC86, 52LC87, 52LC88, 52LC89, 52LC90, 52LC91	6½ to 8	**52LD17**
MSA		
V-Gard®	6½ to 8	**4LN50**
Honeywell North		
North Zone Hard Hats	One Size Fits Most	**49ZZ17**
Pinlock (8-Point)		
Honeywell Fibre-Metal		
P2A, P2HN Hard Hats	One Size Fits Most	**23V891**
Ratchet (4-Point)		
Condor		
Front Brim 52LC92, 52LC93, 52LC94, 52LC95, 52LC96, 52LC97, 52LC98, 52LC99, 52LD01, 52LD02, 52LD03, 52LD04, 52LD05	6½ to 8	**52LD15**
Full Brim 52LD06, 52LD07, 52LD08, 52LD09, 52LD10, 52LD11, 52LD12, 52LD13, 52LD14	6½ to 8	**52LD16**
MSA		
SmoothDome®, V-Gard®, V-Gard® 500, V-Gard® GREEN	One Size Fits Most	**30FX30**
Vanguard™	One Size Fits Most	**30FX36**
V-Gard®	6½ to 8	**1AVR7**
Honeywell North		
North Zone Hard Hats	One Size Fits Most	**49ZZ18**
Ratchet (6-Point)		
MSA		
SmoothDome®, V-Gard® 500	One Size Fits Most	**30FX31**

Faceshields

Condor

- Meet ANSI Z87.1 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Polycarbonate clear visors allow high clarity and are ideal for heavy-duty impact and heat-resistance applications.



Faceshield Assembly with Chin Guard
No. 2AUB7

Description	W	Visor Dim. H	Thickness	Item No.
Faceshield Assemblies				
Ratchet Headgear with Visor	15½"	8"	0.060"	**4EZC4**
Ratchet Headgear with Visor	15½"	9"	0.070"	**4EZC2**
Pin Lock Headgear with Flatfold Visor	15½"	8"	0.040"	**4EZC6**
Ratchet Headgear with Visor and Chin Guard	15½"	7"	0.040"	**2AUB7**
Visors				
Replacement Visor for No. 4EZC2	15"	9"	0.070"	**4EZC3**
Visors for Nos. 4EZC2, 4EZC4, 4EZC6, 4EZC8, and 4EZC9				
Faceshield Visor, Universal	15½"	8"	0.040"	**4EZD3**
Faceshield Visor, Universal	16"	8"	0.040"	**4EZD1**
Faceshield Visor, Universal	16"	8"	0.060"	**4EZD2**
Hard Hat/Cap Faceshield Frames				
Foldback Faceshield Frame with Full Brim Attachment for Hard Hats				**4EZC8**

Honeywell
UVEX

Turboshield™ Faceshield Assemblies



Nos. 21UN79 and 21UN80 (Sold Separately)

- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Meet CSA Z94.3

Toric polycarbonate lens provides excellent optics and increased field of view in chemical splash and debris impact applications.

Visor Color	Mfr. Model	Item No.
Ratchet Headgear Only		
Black	S9500	**21UN79**
Polycarbonate Visors - 15⅞"W x 9"H, 0.09" Thickness		
Clear	S9550	**21UN80**
Clear with Antifog Coating	S9555	**21UN81**
Shade 3	S9560	**21UN84**
Shade 5	S9565	**21UN85**
Hard Hat Adapter		
Black	S9510	**21UN86**

Bionic® Faceshield Assemblies

Honeywell
UVEX



No. 4RB55

- Meets ANSI Z87.1-2010 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Meets CSA Z94.3

Clear polycarbonate window provides high clarity and is ideal for heavy-duty impact and heat-resistance applications.

Description	W	Visor Dim. H	Thickness	Mfr. Model	Item No.
Ratchet Headgear with Visor	14¼"	9½"	0.040"	S8500	**4RB55**
Replacement Visor				S8550	**4RB56**

3M

Faceshield Headgear

Headgear Only
No. 4YZ58



Assembly
No. 2ELZ3



- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Polycarbonate visors allow high clarity and are ideal for heavy-duty impact and heat-resistance applications. Propionate and PETG visors are suitable for splash, spray, and light impact applications. High-heat series visors are able to retain shape for longer periods of time at a higher temperature.

Description	Visor Material	Visor Color	W	Visor Dim. H	Thickness	Mfr. Model	Item No.
Ratchet Headgear (Visor Sold Separately)							
Ratchet	—	—	—	—	—	82501-00000	**4YZ58**
Ratchet Headgear with Clear Chin Guard	—	—	—	—	—	82521-10000	**2ELW6**
Faceshield Assembly							
Ratchet Headgear with No. 4RC44 Visor	Polycarbonate	Clear	14½"	9"	0.08"	82783	**2ELZ3**
Visors for 3M™ Headgear							
Propionate	Propionate	Clear	14½"	9"	0.080"	82700-00000	**2ELY8**
Polycarbonate	Polycarbonate	Clear	14½"	9"	0.080"	82701	**4RC44**
Faceshield Components							
Polycarbonate Visor For No. 2ELW6	Polycarbonate	Clear	14½"	7"	0.040"	82543-00000	**2ELZ2**



V-Gard® Standard Frame with Debris Control
No. 12V755



V-Gard® Standard Frame
No. 12V760

V-Gard® Frames and Visors

MSA
The Safety Company

- Meet ANSI Z87.1-2010 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Frames—Sloped design has gutters to guide liquids, chips, and other materials off the frame and away from the line of sight.

Visors—Polycarbonate visors are resistant to impact and splash hazards.

Description	Mfr. Model	Item No.
V-Gard® Frames		
For MSA® Slotted Caps		
Standard Frame	10121266	**12V756**
Standard Frame, Includes Debris Control	10115730	**12V755**
For MSA® Nonslotted Hats		
Standard Frame, Plastic	10121268	**12V760**

Visor Color	W	Visor Dim. H	Thickness	Mfr. Model	Item No.
Visors					
Clear	17"	8"	0.06"	10115840	**34G162**
Clear	17"	9½"	0.040"	10115863	**22EY58**
Clear	17"	10⅜"	0.098"	10115853	**34G163**
Green	17"	10⅜"	0.098"	10115854	**34G164**

Honeywell
FIBRE-METAL

Faceshield Headgear



No. 2KFY7

No. 15W957

- Meet ANSI Z87.1-2015 standard and certified to the CSA Z94.3 when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Headgear—Made of Noryl® for durability and heat resistance.

Visors—Propionate visors provide distortion-free optics along with chemical and impact resistance. Compatible with Fibre-Metal hard hats with Quick-Lok™ blocks.

Description	Mfr. Model	Item No.
Headgear Only		
Ratchet Suspension with 3" Crown	F300	**15W970**
Ratchet Suspension with 4" Crown	F400	**2KFY7**
Ratchet Suspension with 7" Crown	F500-H5	**3NNJ1**

Visor Color	W	Visor Dim. H	Thickness	Mfr. Model	Item No.
Visors					
Clear	11¼"	8"	0.060"	4118CL	**15W957**
Clear	16½"	8"	0.060"	4178CL	**2KFY8**
Clear	16½"	8"	0.060"	6750CL	**15W967**
Shade 5 IR	16½"	8"	0.060"	4178IRUV5	**2KFZ1**
Clear	19"	9¾"	0.060"	4199CL	**2KFZ3**

sellstrom.
Product that works.



No. 23X909



No. 4PE38

Faceshield Assemblies

- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Assemblies meet CSA Z94.3-07 CUL certified

Polycarbonate visor provides high clarity and is great for heavy-duty impact and heat-resistance applications. Crown/chin guard on No. 23X909 offers extra side and bottom protection from splashes, dust, and contaminants.

DP4™ Faceshield Assembly No. 4PE38 combines full-face coverage with shade 5, 6, or 8 flip visor options, eliminating the need to wear 2 protective devices. Provides UV/IR protection during griding, cutting, and brazing operations.

Description	Visor Material	Visor Color	W	Visor Dim. H	Thickness	Mfr. Model	Item No.
Faceshield Assemblies							
Ratchet Headgear with Visor	Polycarbonate, Aluminum Bound	Clear	15½"	8"	0.04"	S30110	**5DAD1**
Ratchet Headgear with Visor and Crown/Chin Guard	Polycarbonate	Clear	19"	6"	0.04"	S38110	**23X909**
DP4™ Ratchet Headgear with Antifog Visor	Polycarbonate	Clear	8"	8"	0.060"	S32010	**4PE36**
DP4™ Ratchet Headgear with Shade 5 Flip Visor	Polycarbonate	Shade 5	12½"	9"	0.060"	S32151	**4PE38**
DP4™ Ratchet Headgear with Shade 6 Flip Visor	Polycarbonate	Shade 6	12½"	9"	0.060"	S32161	**2KLE6**
DP4™ Ratchet Headgear with Shade 8 Flip Visor	Polycarbonate	Shade 8	12½"	9"	0.060"	S32181	**2KLE5**

Scan. Order. Done.
Details on page A1.



No. 3BB62



No. 3BB67

Condor

Winter Hard Hat Liners

- Universal size

Over-the-Cap Liners—Feature hook-and-loop fasteners for attachment to cap suspension.

Ear Bands and Balaclava—Wear over most hard hats. Ear bands fit snugly around the ears and top of the head.

Material	Color	Item No.
Cotton	Blue	3BB62
Quilted Nylon with Fleece Liner	Blue	3BB63
Acrylic	Blue	3BB60
	Orange	3BB61
	Orange	3BB67



No. 16M261
(Hard Hat Sold Separately)

ergodyne

Squids® Hard Hat Lanyards

Secure hard hat to worker to keep it from falling out of reach. Dielectric/nonconductive. 2-lb. max load limit.

Description	Color	Item No.
Elastic Lanyard with Buckle	Lime	16M261
Elastic Lanyard with Clamp	Lime	16M262
Coil Lanyard with Buckle	Black	45NJ44
Coil Lanyard with Buckle	HV Lime	45NJ45
Coil Lanyard with Clamp	Black	45NJ46
Coil Lanyard with Clamp	HV Lime	45NJ47

Condor

Hard Hat Evaporative Cooling Pads

Deliver cooling relief from on-the-job heat. 100% cotton material contains water-activated absorbent beads. Soak the reusable liner in cold water for 10 to 20 min. before attaching to hard hat suspension. No. 33TZ12 includes an attached neck shade to shade and cool neck.

Description	Item No.
Cooling Pad	33TZ11
Cooling Pad with Neck Shade	33TZ12



No. 33TZ11



No. 33TZ12

ACCUFORM.

Reflective Hard Hat Labels

Self-adhesive retro-reflective microprism labels promote visibility. Measure 1"W x 4"L. Pkg. of 16.

▶CHOOSE: Color	Item No.
Blue, Lime Yellow, Red, Red/Orange, White	D5953



(Hard Hat Sold Separately)

HEADLINE IT!

Disposable Safety Liner

High-tech wick wear absorbs and evaporates sweat continuously, helping keep eyes clear. Plus it cools head in the summer and warms it in the winter. Hygienic liner traps oils, salts, and odors. One size fits all headwear items.

Color	Item No.	Pkg. Qty.
Blue	4FPK2	10



(Cap Sold Separately)

(Hard Hats Sold Separately)

GRAINGER APPROVED

Hard Hat Storage Racks

Keep one or several hard hats close at hand and off working surfaces with these racks. Fit any hard hat shape.

No. 6GLA7



No. 6GLA8



No. 6GLA9



Description	Holds	Includes	Material	Overall Height	Overall Width	Overall Depth	Item No.
Seat Back	(1) Hard Hat	—	Epoxy Coated Steel	7¾"	5¾"	2½"	6GLA7
Seat Back	(1) Hard Hat	—	Nickel Plated Steel	3¼"	12¼"	11¾"	5LTR3
Universal Mount	(1) Hard Hat	Double-Sided Foam Tape	Powder Coated Steel	3¾"	2¾"	3"	6GLA8
Wall Mount	(1) Hard Hat	—	Nickel Plated Steel	3¼"	12¼"	11¾"	5LTR4
Wall Mount	(4) Hard Hats	Double-Sided Foam Tape	Epoxy Coated Steel	3"	22¾"	14"	6GLA9
Window Mount Kit for Use with No. 5LTR4	—	(3) 3" Dia. Suction Cups, Hardware	Plastic, Metal	—	—	—	5LTR5



No. 16V832



No. 16V834



No. 16V845



No. 2EMK6

Chill-Its® Headwear and Sweat/Wristbands

Evaporative Cooling—PVA material activates when run under water for 1 min. Provides cooling comfort for hours. Reusable; just rewet.

Ranger Hats have a wide brim and constructed of 150 denier oxford polyester with vented mesh panels and PVA lining. Include Level 2 ANSI-compliant reflective tape with contrasting color.

Absorptive Cooling—Absorbent moisture-wicking terry fabric draws sweat away from skin.

Description	Pattern	Color	Item No.
Evaporative Cooling			
Bandanas with Cooling Towel and Tie Closure	Stars and Stripes	Red, White and Blue	16V829
	Western	Red	16V830
	Western	Navy	16V831
	Solid	Lime	16V832
	Solid	Blue	16V833
Bandanas with Cooling Towel and Hook-and-Loop Closure	Stars and Stripes	Red, White and Blue	16V839
	Western	Red	16V840
	Western	Navy	16V841
	Solid	Lime	16V842
	Solid	Blue	16V843
Triangle Hats with Cooling Towel	Stars and Stripes	Red, White and Blue	16V834
	Western	Red	16V835
	Western	Navy	16V836
	Solid	Lime	16V837
	Solid	Blue	16V838
Ranger Hat, S/M	Solid	Lime	16V845
Ranger Hat, L/XL	Solid	Lime	16V846
Cooling Towel, 13"L x 29½"W	Solid	Blue	2EMK6
	Solid	Gray	35YY79
	Solid	Lime	35YY80
	Solid	Orange	35YY81
	Solid	Pink	35YY82
	Solid	Blue	54DF05
Absorptive Cooling			
Dew Rags	Stars and Stripes	Red, White and Blue	2EMJ7
	Camouflage	Green	2EMJ8
	Western	Red	2EMJ9
	Western	Blue	2EMK1
	Flames	Orange/Black	2EMK3
	Solid	Lime	2EMJ6
	Solid	Blue	2EMK2
Headbands	Stars and Stripes	Red, White and Blue	2EMH5
	Camouflage	Green	2EMH6
	Western	Red	2EMH7
	Western	Blue	2EMH8
	Solid	Blue	2EMH9
	Flames	Orange/Black	2EMJ1
Sweatbands	Solid	White	2EMJ3
	Solid	Black	2EMJ5
Wristbands, Pkg. of 2	Solid	Black	2EMJ4



No. 33TZ02





No. 53CE31

No. 51VR19



No. 33TZ14



No. 53CE32



No. 33TZ03

Cooling Headwear

Keep cool on the job with a variety of reusable towels, bandanas, hats, and sweatbands. Just soak in cold water up to 20 min. for instant cooling relief. Activate Towels in just a couple minutes—wear on your neck or use for wiping away dirt and sweat. Wear cooling Bandanas and Dew Rags alone or with protective hard hats. Brightly colored Hat provides visibility on busy jobsites and gives protection from element. Cellulose Sweatband absorbs sweat and helps keep it away from eyes and hands.

Description	Color	Item No.
MiraCool® Neck Towel	Denim	33TZ02
MiraCool® Cooling Towel	Blue	51VR19
MiraCool® Neck Bandanas	Red, White and Blue	53CE31
	Navy	33TZ03
	Cowboy Blue	33TZ04
	Denim	33TZ05
Absorbant Cellulose Sweatband	Blue	33TZ14
Accessories		
Mesh Hard Hat Shade/Neck Protector	Yellow/Orange	53CE32



Hi-Vis Lime



Hi-Vis Orange

GloWear® High-Visibility Headwear

- ANSI 107 Class compliant headwear

Constructed of 150 denier oxford polyester with vented mesh panels.

▶CHOOSE: Color	Item No.
Hi-Visibility Lime, Hi-Visibility Orange	J0289



No. 3BB64



No. 1HC48

Winter Headwear

Condor

Universal size. Traditional-style caps and hats are worn directly over the head. Liners have an extended nape that covers wearer's neck for added warmth.

Description	Material	Color	Item No.
Beanie Cap	Acrylic	Blue	3BB66
Nape Liner with Chin Strap	Cotton	Blue	3BB64
Nape Liner with Detachable Face Cover	Cotton	Blue	3BB65
Beanie Cap with Detachable Neck Wrap	Cap Cotton, Neck Wrap Acrylic	Blue	1HC48



No. D2583



No. F8993



No. F9107

Cold Weather Headwear

carhartt

- One size fits all
- Carhartt® labels are sewn on

Watch Hat is 100% acrylic, stretchable rib-knit fabric for comfort. Mask features an extra-long neck. 100% acrylic knit with 3M™ Thinsulate™ Flex 40g insulation for added warmth. 2-in-1 Face Mask is 100% polyester fleece hat with a pull-down face mask (90% polyester/10% spandex). Wicks sweat and fights odor. Tuck mask up inside hat when not in use.

Description	▶CHOOSE: Color	Item No.
Watch Hat	Black, Bright Lime, Bright Orange, Brown, Dark Brown, Navy Blue	D2583
Mask	Black, Charcoal	F8993
2-in-1 Face Mask	Black, Brown	F9107

MAXIT

Cold Weather Headwear

Moisture-wicking, nonallergenic, stretchable ProMAX IV™ polypropylene/spandex fabric blocks the cold and wind. Wear alone or as a liner. Universal size.

Description	▶CHOOSE: Color	Item No.
HEADGATOR® 6 in 1 Headgear	Black, Brown, Blue	D4583
HOTHEAD® Balaclava	Black, Brown	D4584
Z-BEANIE™ Beanie Cap	Black, Brown, Blue	D4585



No. D4584



No. 48JT80



No. 48JT81



No. 48JT83

HOTHANDS

Heated Neck and Headwear



No. 26KF07

- Long-lasting heat for head and ears
- Designed specifically for use with HotHands® warmers
- Includes a free pair of warmers

HotHands® heated neck and headwear help keep the head and neck warm and comfortable when the temperature drops! Designed with special pockets to fit HotHands warmers, this is the ultimate way to stay comfortable when the weather gets cold.

Item	Color	Item No.	Pkg. Qty.
Neck Gaiter	Black	48JT80	1
Balaclava	Black	48JT81	1
Knit Cap	Black	48JT82	1
Knit Cap	Orange	48JT83	1
Headband	Black	48JT84	1
Hand Warmer	—	26KF07	1
Hand Warmer	—	26KF08	3
Foot Warmer	—	26KF13	5
Hand Warmer	—	26KF14	10



No. 46W009



No. H4626



No. 46W005

RefrigiWear

Cold Weather Headwear

Universal size. Neck Gaiter covers nose, mouth, ears, and neck. Face Masks have a long neck for draft protection. Watch Hat has a moisture-wicking polypropylene lining for comfort.

Description	Material	▶CHOOSE: Color	Item No.
Neck Gaiter	Acrylic	Black	46W009
Face Mask	Acrylic	Lime, Navy, Sage	H4626
Face Mask	100% Acrylic	Orange	H4626
Watch Hat	Wool/Acrylic	Black	46W005



No. 46W132



No. H4625

Tough Duck

Cold Weather Headwear

Watch Cap is stretchable. Aviator Hat has a snap-up visor, pile-trimmed ear flaps with hearing holes under the flaps, and an adjustable chin strap.

Description/ Material	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Watch Cap			
Acrylic with 3M™ Thinsulate Lining	Universal	High Visibility Green	46W132
Aviator Hat			
100% Cotton Duck with Cotton Lining Quilted to 3M™ Thinsulate	L, XL	Black, Brown	H4625

Ear Plug Shape



Bell
Page 1643

Bullet
Page 1643

Cone
Page 1644

Contoured-T
Page 1644

Cylinder
Page 1644

Flanged
Page 1645

Pod
Page 1645

Noise Reduction Rating (NRR)

Noise Reduction Rating (NRR) is the maximum number of decibels (dB) that a properly fitted hearing protector will reduce noise levels. When choosing the right hearing protection for your application, OSHA suggests subtracting 7 from the NRR value, to help account for improper fit.

Level (db)	Example of Noise Levels
140	Rifle Fired 1 Meter Away
120	Basketball Game Crowd Noise
100	Chainsaw
90	Drilling Concrete, Leaf Blower
80	Vacuum Cleaner
50	Floor Fan

Insertion Method

Roll-Down—Roll-down earplugs must be rolled and compressed by hand before being inserted into the ear canal. Once inserted, the earplug expands to create a seal.

Push-In—As implied by the name, push-in earplugs are inserted into the ear canal with a gentle push. They do not need to be rolled and compressed before insertion.



3M Honeywell Howard Leight ★ Condor

Bell-Shaped Ear Plugs

- Disposable

A flared end provides extra coverage at the edge of the ear canal, and also provides a gripping point to aid insertion and removal of the plug. No-Touch™ plugs have an integral stem to help keep foam tips clean.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Push-In								
29dB	M	Purple	No-Touch™	3M	**3NHA5**	100	**3NHA6**	100
26dB	M	Orange	Quiet®	Honeywell Howard Leight	**5FV22**	100	**5FV24**	100
Roll-Down								
33dB	M	Yellow	E-A-Rsoft™ FX™	3M	**1VJY1**	200	**1VJY2**	200
33dB	M	Yellow	E-A-Rsoft™ FX™	3M	—	—	**3NHF2**	100
33dB	M	Orange	Max®	Honeywell Howard Leight	**5FV14**	200	**5FV17**	100
32dB	M	Orange	Condor	Condor	**22ED83**	200	**22ED82**	100
30dB	S	Orange	Max®	Honeywell Howard Leight	**24C174**	200	**24C175**	100
28dB	S	Yellow	E-A-R™ E-Z-Fit™	3M	**6T546**	200	**1AV18**	200



3M MOLDEX ★ Condor

Bullet-Shaped Ear Plugs

- Disposable

Bullet-shaped ear plugs have a shaft that gradually narrows for a comfortable fit in the ear canal. They're sometimes called tapered ear plugs.

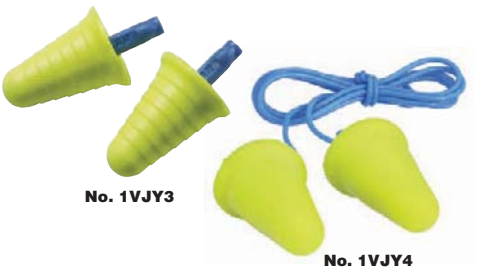
NRR	Size	Ear Plug Color	Series	Brand	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down								
33dB	M	Yellow	E-A-Rsoft™	3M	**3NZF4**	200	**3NZF5**	200
33dB	M	Orange	E-A-Rsoft™ SuperFit™	3M	**3WE34**	200	—	—
33dB	M	Yellow	E-A-Rsoft™ SuperFit™	3M	—	—	**3WE35**	200
33dB	M	Orange	E-A-Rsoft™ Yellow Neon Blasts™	3M	**3GY48**	200	—	—
33dB	M	Orange, Yellow	E-A-Rsoft™ Yellow Neon Blasts™	3M	—	—	**3GY49**	200
33dB	M	Yellow	E-A-Rsoft™ Yellow Neon Blasts™	3M	—	—	**3NHF3**	100
33dB	M	Green	Pura-Fit®	Moldex	**2FLL3**	200	**2FLL6**	100
33dB	M	Multicolor	SparkPlugs®	Moldex	**2FLK8**	200	**2FLL2**	100
32dB	M	Yellow	E-A-R TaperFit™ 2	3M	**6T545**	200	**3AC62**	200
32dB	M	Orange	Condor	Condor	**22ED80**	200	**22ED81**	100
29dB	M	Orange	Condor	Condor	**22PP02**	200	**22PP03**	100

Find more information on Hearing Protection on page 1643.


No. 1MCD8

No. 1MCD9


No. 2NFC4


No. 1VJY3

No. 1VJY4

3M

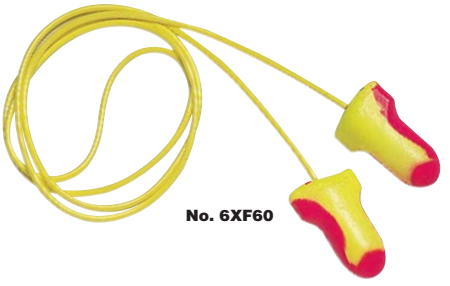
Cone-Shaped Ear Plugs

- Disposable

Designed with ridges that create rings of air pockets to help block out noise. Their shaft gradually tapers for a comfortable fit in the ear canal. Integral stems help keep foam tips clean, and simplify insertion and removal.

NRR	Size	Ear Plug Color	Series	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Push-In							
32dB	M	Silver	Skull Screws™	**1MCD9**	120	**1MCD8**	120
31dB	M	Yellow	E-A-R™ Push-Ins™ SofTouch™	—	—	**2NFC4**	200
30dB	M	Yellow	E-A-R™ Push-Ins™ with Grip Rings	**1VJY3**	200	**1VJY4**	200


No. 6XF59


No. 6XF60

Honeywell
HOWARD LEIGHT


No. 5FV09


No. 5FV12

Contoured-T-Shaped Ear Plugs

- Disposable

Plugs are slightly flattened at the end to provide a gripping point for handling and insertion.

NRR	Size	Ear Plug Color	Series	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down							
32dB	M	Magenta, Yellow	Laser Lite®	**6XF59**	200	**6XF60**	100
30dB	M	Green	Max Lite®	**5FV09**	200	**5FV12**	100


No. 5XN20


No. 5XN21


No. 2NFC5


No. 3NHF1

3M
AbilityOne PROGRAM
SKILCRAFT
Condor


No. 3WE33


No. 3NHP4


No. 20JK03


No. 20JK04

Cylinder-Shaped Ear Plugs

- Disposable

The original ear plug design; also known as barrel ear plugs.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down										
33dB	L	Yellow	E-A-R™ Classic™ Plus	3M	Cardboard Pillow Pack	**3NHJ5**	200	Cardboard Pillow Pack	**3NHJ6**	200
33dB	L	Orange, Yellow	E-A-R™ Classic™ SuperFit™	3M	Cardboard Pillow Pack	**5XN20**	200	—	—	—
33dB	L	Yellow	E-A-R™ Classic™ SuperFit™	3M	—	—	—	Plastic Bag	**5XN21**	200
29dB	M	Yellow	E-A-R™ Classic™	3M	Loose	**2NFC5**	500	Plastic Bag	**5T277**	200
29dB	M	Yellow	E-A-R™ Classic™	3M	Loose	**3WE33**	1000	Plastic Bag	**3NHF1**	100
29dB	M	Yellow	E-A-R™ Classic™	3M	Cardboard Pillow Pack	**4T147**	200	Loose	**3NHP4**	500
29dB	M	Yellow	E-A-R™ Classic™	3M	Loose	**3NHH5**	200	—	—	—
29dB	M	Yellow	E-A-R™ Classic™	3M	Plastic Bag	**3WML1**	200	—	—	—
29dB	M	Green, Orange	SoundGuard™	Ability One	Cardboard Pillow Pack	**29PH94**	200	—	—	—
29dB	M	Orange	Condor	Condor	Plastic Bag	**20JK03**	200	Plastic Bag	**20JK04**	200
29dB	M	Blue, Orange	SoundGuard™	Skilcraft	Loose	**48TC50**	100	—	—	—

Find more information on Hearing Protection on page 1643.







3M Honeywell HOWARD LEIGHT MOLDEX Condor

Flanged-Shaped Ear Plugs

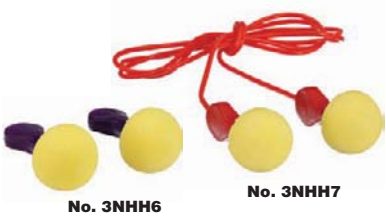
- Reusable

Multiple, tapered fins flex provide a comfortable, yet snug fit in your ear canal. The fins also create pockets of air to help block out noise.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Push-In										
28dB	M	Yellow	E-A-R™ Push-Ins™	3M	—	—	—	Plastic Bag	**30FX20**	200
27dB	M	Yellow	E-A-R™ UltraFit™ 27	3M	Loose	**1MCE1**	100	Plastic Bag	**1MCE2**	100
27dB	M	Blue	AirSoft®	Honeywell Howard Leight	Plastic Bag	**3NHE2**	100	Plastic Case	**5FT95**	50
27dB	M	Blue	AirSoft®	Honeywell Howard Leight	—	—	—	Plastic Bag	**5FT99**	100
27dB	M	Yellow	Fusion®	Honeywell Howard Leight	—	—	—	Plastic Case	**3WU29**	100
27dB	M	Purple	Rockets®	Moldex	Plastic Case	**3NHL8**	50	Plastic Bag	**2EUL9**	50
27dB	M	Purple	Rockets®	Moldex	—	—	—	Plastic Case	**2EUN1**	50
26dB	M	Clear	Tri-Flange™	3M	—	—	—	Plastic Bag	**3NHA7**	100
26dB	M	Yellow	Tri-Flange™	3M	—	—	—	Plastic Bag	**5PA90**	100
25dB	M	Yellow	E-A-R™ UltraFit™	3M	Plastic Bag	**3NHE5**	100	Loose	**30FX21**	200
25dB	M	Yellow, Red	Condor	Condor	—	—	—	Plastic Case	**22ED78**	50
25dB	M	Orange	SmartFit®	Honeywell Howard Leight	—	—	—	Plastic Case	**3WU28**	100
25dB	M	Blue	SmartFit®	Honeywell Howard Leight	—	—	—	Plastic Bag	**3GYE1**	100
25dB	M	Orange	SmartFit®	Honeywell Howard Leight	—	—	—	Paper Bag	**24C176**	100







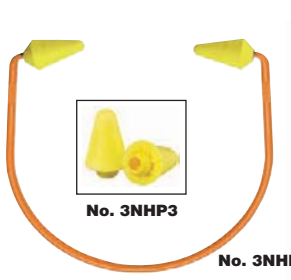
MOLDEX 3M

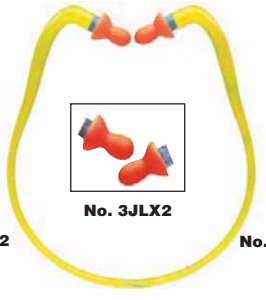
Pod-Shaped Ear Plugs

- Disposable

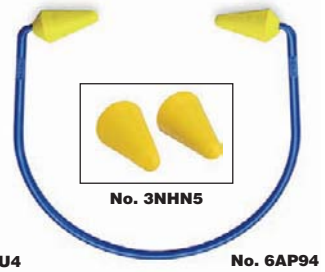
A large, ball-shaped end fills the ear canal, and a paddle-shaped handle provides a grip for pushing the pod into place so there's no need to touch it or roll it.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Push-In										
30dB	M	Green	Glide	Moldex	Plastic Bag	**21EP24**	100	Plastic Bag	**21EP25**	100
29dB	M	Silver	E-A-R™ Pistonz™	3M	—	—	—	Loose	**6ANU4**	100
28dB	M	Yellow	E-A-R™ Push-Ins™	3M	Plastic Bag	**3WE31**	100	Plastic Bag	**2NFC6**	500
28dB	M	Yellow	E-A-R™ Push-Ins™	3M	Plastic Bag	**30F058**	200	Plastic Bag	**3WE32**	100
28dB	M	Yellow	E-A-R™ Push-Ins™	3M	—	—	—	Plastic Bag	**30FX20**	200
25dB	M	Yellow	E-A-R™ EXPRESS™ Pod Plugs™	3M	Pillow Pack	**3AX81**	100	Pillow Pack	**2AJ13**	100
25dB	M	Yellow	E-A-R™ EXPRESS™ Pod Plugs™	3M	Pillow Pack	**3NHH6**	100	Pillow Pack	**3NHH7**	100









Banded Ear Plugs

- Reusable band; disposable tips

Ideal for intermittent use when switching between noisy and quiet areas. Banded plugs are less bulky than ear muffs and more convenient than individual ear plugs, to protect hearing where high levels of noise reduction aren't needed. The reusable band holds the replaceable tips in place and allows them to be more easily inserted and removed than standard ear plugs. Wear the band over your head, under your chin, or behind your neck; it can also rest around your neck when the plugs aren't in use.

NRR	Size	Ear Plug Color	Series	Brand	Banded Ear Plugs Item No.	Banded Ear Plugs Pairs Per Pkg.	Replacement Tips Item No.	Replacement Tips Pairs Per Pkg.
Bell Shape								
28dB	M	Yellow	E-A-Rflex™	3M	**3NHP2**	1	**3NHP3**	5
27dB	M	Orange	QB1®HYG	Honeywell Howard Leight	**3JNG3**	1	**3JLX2**	1
25dB	M	Orange	QB2®HYG	Honeywell Howard Leight	**9UA93**	1	**5FV21**	50
25dB	M	Green	JazzBand	Moldex	**3EAU4**	1	**3EAU3**	5
Pod Shape								
23dB	M	Orange	QB3®HYG	Honeywell Howard Leight	**8TKJ4**	1	**5FV19**	50
20dB	M	Yellow	E-A-R™ Caboflex™	3M	**6AP94**	1	**3NHN5**	5



Bell Shape
No. 2GMP3



Cylinder Shape
No. 2NFC8



Bullet Shape
No. 22ED79



Contoured-T Shape
No. 4DY86



Cylinder Shape
No. 2NFC7



Flanged Shape
No. 14L954



Flanged Shape
No. 20JK05



Flanged Shape
No. 3GYD9



Pod Shape
No. 23X920



Pod Shape
No. 2NFC9

MOLDEX 3M Condor Honeywell HOWARD LEIGHT

Metal-Detectable Ear Plugs

▪ Disposable; except Flanged and Pod Shape are reusable

Metal-detectable ear plugs fit into the ear canal like standard ear plugs and have a metallic element so they can be sensed by a metal detector. They're commonly worn by workers in food manufacturing and pharmaceuticals processing plants so that ear plugs lost on the production line can be found, to help prevent contaminated products from leaving the plant.

They expand within the ear to form a seal that reduces sound levels and help prevent hearing loss in noisy work environments. Corded to help keep them from falling off, and allow them to rest around your neck when not in use.

Note: For more information on plug shapes, see page 1643.

NRR	Insertion Method	Size	Ear Plug Color	Pack Type	Series	Brand	Item No.	Pairs Per Pkg.
Bullet Shape								
33dB	Roll-Down	M	Blue	Plastic Bag	SparkPlugs®	Moldex	**2GMP3**	100
32dB	Roll-Down	M	Yellow	Plastic Bag	E-A-Rsoft™	3M	**2NFC8**	200
32dB	Roll-Down	M	Blue	Plastic Bag	Condor	Condor	**22ED79**	100
Contoured-T Shape								
33dB	Roll-Down	M	Blue, Orange	Plastic Bag	Laser Trak®	Honeywell Howard Leight	**4DY86**	100
Cylinder Shape								
33dB	Roll-Down	L	Yellow	Pillow Pack	E-A-R™ Classic™	3M	**2NFC7**	200
Flanged Shape								
25dB	Push-In	M	Blue	Plastic Bag	E-A-R™ Ultrafit™	3M	**14L954**	200
25dB	Push-In	M	Blue	Plastic Bag	Condor	Condor	**20JK05**	200
25dB	Push-In	M	Blue	Plastic Bag	SmartFit®	Honeywell Howard Leight	**3GYD9**	100
Pod Shape								
28dB	Push-In	M	Yellow	Plastic Bag	E-A-R™ Push-Ins™	3M	**23X920**	200
25dB	Push-In	M	Yellow	Pillow Pack	E-A-R™ EXPRESS™ Pod Plugs™	3M	**2NFC9**	100





MOLDEX

Metal-Detectable Ear Plug Dispensing System

Moldex system is a convenient all-in-one unit that consists of a disposable dispenser, prefilled with a supply of metal-detectable ear plugs. It dispenses ear plugs one or two at a time to minimize waste and supply clean plugs for each user. Throw out the container when empty to eliminate the hassle of refilling. Dispenser must be wall mounted with the included bracket. Once installed, the bracket can be reused with replacement Moldex dispensers.

NRR	Cord Options	Ear Plug Color	Size	Pack Type	Series	Item No.	Pairs Per Pkg.
Metal Detectable Bullet Shape							
33dB	Corded	Blue, White	M	Plastic Bag	SparkPlugs®	**32MU07**	150

Find more information on Hearing Protection on page 1643.

Ear Plug Dispensing Systems

MOLDEX

Moldex ear plug dispensers consist of a disposable dispenser that's prefilled with a supply of ear plugs to provide a convenient all-in-one unit. The dispenser can be thrown out when empty to eliminate the hassle of refilling. These systems provide a dispensing point that protects ear plugs from dust while keeping them readily available for use. They dispense ear plugs one or two at a time to minimize waste and supply clean ear plugs for each user. These ear plug dispensers require wall mounting and include a bracket for installation. Once installed, the bracket can be reused with replacement Moldex dispensers.

NRR	Cord Options	Ear Plug Color	Size	Pack Type	Series	Item No.	Pairs Per Pkg.
Bullet Shape							
33dB	Uncorded	Multicolor	M	Loose	SparkPlugs® PlugStation®	**2FLK9**	250
33dB	Uncorded	Multicolor	M	Loose	SparkPlugs® PlugStation®	**2FLL1**	500
33dB	Uncorded	Green	M	Loose	Pura-Fit® PlugStation®	**2FLL4**	250
33dB	Uncorded	Green	M	Loose	Pura-Fit® PlugStation®	**2FLL5**	500
33dB	Corded	Multicolor	M	Plastic Bag	SparkPlugs®	**32MU06**	150
33dB	Corded	Green	M	Plastic Bag	Pura-Fit®	**32MU08**	150
33dB	Uncorded	Assorted	M	Loose	One-Stop Plugshop®	**3NHC7**	750
Pod Shape							
30dB	Corded	High-Visibility Green	M	Plastic Bag	Glide®	**52ZV35**	150



No. 2FLL1

Ear Plug Dispensers and Refills

Honeywell
HOWARD LEIGHT

Honeywell dispensers release ear plugs one or two at a time with just the twist of a knob, to provide clean ear plugs for each user. They also help protect ear plugs from dust and contamination. Simple plug-n-play refill with pre-filled canisters, or minimize waste with zip-top bags. Wall-mount, or place on a flat surface.

NRR	Ear Plug Color	Size	Series	Dispenser Item No.	Dispenser Pairs Per Pkg.	Canister Refill Item No.	Canister Refill Pairs Per Pkg.	Bag Refill Item No.	Bag Refill Pairs Per Pkg.
Bell Shape									
33dB	Orange	M	Max®	**55TA91**	800	**468F30**	800	**54FH94**	2000
30dB	Orange	S	Max® Small	**468F27**	800	**468F31**	800	—	—
Contoured-T Shape									
32dB	Magenta, Yellow	M	Laser Lite®	**468F29**	400	**468F33**	400	**54FH95**	2000
30dB	Green	M	Max Lite®	**468F28**	400	**468F32**	800	**468F36**	2000



No. 55TA91 Dispenser shown with included refill



No. 468F30



No. 54FH94

Ear Plug Dispensers and Refills

3M

3M ear plug dispensers are used with 3M refills to provide a dispensing point that protects ear plugs from dust while keeping them readily available for use. They dispense ear plugs one or two at a time to minimize waste and supply clean ear plugs for each user. Mount these ear plug dispensers to a wall or place them on a flat surface.

NRR	Ear Plug Color	Size	Series	Dispensers Item No.	Dispensers Pairs Per Pkg.	Refills Item No.	Refills Pairs Per Pkg.
Bell Shape							
33dB	Yellow	M	E-A-Rsoft™ Yellow Neons™ One Touch™	**65RJ87**	500	**30FX18**	500
33dB	Yellow	L	E-A-Rsoft™ Yellow Neons™ One Touch™	**65RJ88**	400	**30FX23**	400
33dB	Orange, Yellow	M	E-A-Rsoft™ Yellow Neons Blasts™ One Touch™	**65RJ89**	500	**3GY50**	500
33dB	Orange, Yellow	M	E-A-Rsoft SuperFit™ One Touch™	**65RJ92**	500	**30FX19**	500
33dB	Yellow	M	3M™ 1100	**65RJ91**	500	**45JW42**	500
29dB	Orange	M	E-A-Rsoft FX™	**65RJ90**	500	**45JW41**	500
Cylinder Shape							
30dB	Orange, Yellow	M	E-A-R Classic™ SuperFit™ One Touch™	**65RJ86**	500	**3NHL1**	500
29dB	Yellow	M	E-A-R Classic™ One Touch™	**65RJ85**	500	**3NHK9**	500



No. 65RJ88 Dispenser shown with included refill



No. 30FX23 Refill

Find more information on Hearing Protection on page 1643.



Dispenser No. 3WU31 with Refill No. 3WU37 (Sold Separately)



No. 3WU33



No. 3WU37



No. 3WU35

Honeywell HOWARD LEIGHT

Ear Plug Dispenser and Refills

NRR	Ear Plug Color	Size	Series	Item No.	Pairs Per Pkg.
Bell Shape Refills					
33dB	Coral	M	Max®	**3WU33**	500
30dB	Orange	S	Max® Small	**29EZ70**	500
Contoured-T Shape Refills					
32dB	Magenta, Yellow	M	Max Lite®	**3WU37**	500
30dB	Green	M	Laser Lite®	**3WU35**	500
Ear Plug Dispenser					
Leight Source 500				**3WU31**	

Highly visible crank-handle dispenser provides a permanent location for workers to access disposable ear plugs. Tough anodized aluminum construction withstands constant use. Ideal for large factories and process industries that are looking to eliminate packaging waste. Wall-mountable. Holds 500 pairs of disposable ear plugs, sold separately.

GA GRAINGER APPROVED



No. 23Z422



No. 3TCN5

Empty Ear Plug Dispensers

Empty ear plug dispensers can hold ear plugs of any brand or style to meet the needs of workers in different areas of a facility. They provide a cost-effective alternative to branded dispensers and allow open access for refilling and acquiring ear plugs. Mount these ear plug dispensers to a wall or place them on a flat surface to create a dispensing point for ear plugs.

Capacity	Mounting Style	Dispenser Lid Style	H	W	D	Item No.
Acrylic						
100 Pairs	Table Top, Wall	Hinged Lid	5⅞"	9"	6"	**23Z422**
200 Pairs	Table Top, Wall	Open	10⅞"	10⅜"	10⅛"	**23Z424**
200 Pairs	Table Top, Wall	Open	13¼"	11⅞"	8"	**23Z423**
High Impact PETG						
100 Pairs	Wall	Open	3¼"	9"	6¾"	**3TCN5**
100 Pairs	Wall	Hinged Lid	3¼"	9"	6¾"	**3TCN6**
100 Pairs	Table Top, Wall	Hinged Lid	11"	6"	8"	**4GMR9**
200 Pairs	Wall	Open	11"	10½"	10¼"	**3TCN4**
200 Pairs	Table Top, Wall	Hinged Lid	11"	12"	8"	**4GMT1**



No. 499M92



No. 26X629



No. 475M53



No 26X623



No. 21DE18

3M Honeywell HOWARD LEIGHT MSA The Safety Company Condor

Passive Ear Muffs

These ear muffs passively block noise by relying on the insulating materials of the ear cups to dampen sound. They're typically worn in areas where workers don't need to speak with one another and the goal is to block all or most surrounding noise. As the NRR of these ear muffs increases, they tend to get bulkier due to the larger ear cups and increased insulation materials.

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Behind-the-Neck					
31dB	Yes	Black	X Series	3M	**475M51**
29dB	No	Black, Red	Optime	3M	**3NKY7**
28dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M97**
26dB	No	Black, Green	Optime	3M	**3NZF2**
25dB	Yes	Black	X Series	3M	**475M48**
25dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M96**
22dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M95**
21dB	No	Black	Optime	3M	**4T018**
Folding					
27dB	No	Black, Yellow	VeriShield™	Honeywell Howard Leight	**499M92**
24dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M90**
21dB	No	Black	Optime	3M	**4T023**
Hard Hat Mounted					
31dB	No	Black	X Series	3M	**52JH59**
27dB	No	Black, Red	Optime	3M	**1C137**
27dB	No	Black	VeriShield™	Honeywell Howard Leight	**499N01**
27dB	No	Black, Yellow	VeriShield™	Honeywell Howard Leight	**499N02**
27dB	Yes	Gray	HPE Sound Control™	MSA	**5LE90**
24dB	No	Black, Yellow	X Series	3M	**52JH56**
24dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M99**
23dB	No	Yellow	Optime	3M	**4T019**
23dB	Yes	Green	Thunder®	Honeywell Howard Leight	**1RY32**
21dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M98**
20dB	Yes	Black	X Series	3M	**475M52**
18dB	No	Black, Red	Condor	Condor	**26X629**

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Hard Hat Mounted, Full Brim only					
26dB	Yes	Black	X Series	3M	**475M53**
25dB	Yes	Gray	Sound Control	MSA	**22EY59**
Multi-Position					
29dB	Yes	Black	Viking®	Honeywell Howard Leight	**4DY91**
26dB	Yes	Yellow	EM-105	Condor	**2AAG4**
22dB	Yes	Maroon	E-A-R	3M	**5AM41**
21dB	Yes	Red	Condor	Condor	**26X623**
Over-the-Head					
31dB	Yes	Black	X Series	3M Peltor	**21DE18**
30dB	No	Black, Red	Optime	3M	**1C139**
30dB	No	Black, Green	Optime	3M Peltor	**3JNF6**
30dB	Yes	Black	Thunder®	Honeywell Howard Leight	**4DY88**
30dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M93**
30dB	No	Black, Yellow	VeriShield™	Honeywell Howard Leight	**499M94**
27dB	No	Black, Green	Optime	3M	**4T017**
27dB	Yes	Black, Chartreuse	X Series	3M Peltor	**21DE17**
26dB	No	Yellow	Condor	Condor	**26X627**
26dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M91**
25dB	No	Yellow	Optime	3M	**4T016**
25dB	Yes	Yellow	Condor	Condor	**26X622**
24dB	No	Red	Condor	Condor	**26X625**
24dB	No	Black	VeriShield™	Honeywell Howard Leight	**499M89**
21dB	No	Red	Condor	Condor	**26X626**

Find more information on Hearing Protection on page 1643.

3M

Push-to-Listen Ear Muffs

Push-to-listen ear muffs reduce sound levels by using electronics to actively filter out constant, loud noise. They allow noise filtering to be paused as needed in order to speak with coworkers. They're often used by road construction crews and in other settings where there's a need to communicate in the midst of constant background noise.

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Over-the-Head					
26dB	No	Black	PTL	3M	**4DY70**



No. 4DY70

Honeywell HOWARD LEIGHT | Aearo | 3M | MSA The Safety Company

Impulse Noise Protection Ear Muffs

Impulse noise protection ear muffs (also called electronic ear muffs) electronically filter out constant, loud noise and short bursts of high-volume noise. These electronic hearing protection ear muffs reduce, or attenuate, loud noises while still allowing you to hear ambient sound. Electronic ear protection is often worn to protect against impulse (or impact) noises such as gunfire or metal stamping, pressing, and forging sounds.

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Hard Hat Mounted					
21dB	No	Yellow	Impact®	Honeywell Howard Leight	**3WU34**
Over-the-Head					
30dB	No	Black, Yellow	Impact® Pro	Honeywell Howard Leight	**52ZV60**
30dB	No	Black	Impact® Pro	Honeywell Howard Leight	**52WT14**
26dB	No	Black	TacticalPro	Aearo	**3RXE9**
22dB	No	Black	Impact® Sport	Honeywell Howard Leight	**49AF61**
19dB	No	Gray	Soundtrap™	3M	**2TV55**
19dB	Yes	Black	Supreme® Pro	MSA	**3THJ1**



No. 3WU34



No. 52ZV60



No. 3RXE9



No. 2TV55



No. 3THJ1

Honeywell HOWARD LEIGHT | Aearo | MSA The Safety Company | 3M

Replacement Pad Kits for Ear Muffs

Replacement pad kits (sometimes called hygiene kits) extend the life and restore the performance of ear muffs by replacing worn or lost ear cup pads. They're also used to supply clean pads for a new user. New pads optimize hearing protection by maintaining a proper seal around the ears.

For Use With	Brand	Item No.
Replacement Ear Muff Pad Kit		
Peltor Model No. MT32H01 and MT32H02	3M Peltor	**3NHA1**
MT, HT, Alert, TacticalPRO, PowerCom, LiteC	Aearo	**3NHA2**
Most Welding Helmets, Sandblasting Hoods, Hard Caps, Bump Caps And Fire Helmets, 21dB Mfr. No. H6 HY6/V	3M Peltor	**3NHE1**
EAR Model No. 1000	3M	**3NHG5**
All Howard Leight Ear Muffs and Thunder T3s	Honeywell Howard Leight	**3NKW4**
All Howard Leight Ear Muffs and Thunder T2s/T2H	Honeywell Howard Leight	**3NKW5**
All Howard Leight Ear Muffs and Thunder T1/T1H/T1F	Honeywell Howard Leight	**3NKW6**
All Howard Leight Ear Muffs and Leightning L3s/ L3H/L3N/L3HV and Viking V3 Ear Muffs	Honeywell Howard Leight	**3NKW7**
All Howard Leight Ear Muffs and Leightning L2s/L2H/L2N/L2F/L2FHV/V2	Honeywell Howard Leight	**3NKW9**
All Howard Leight Ear Muffs and Viking V1/ Leightning L1s/L1H/L1N/L1HHV/L0N/L0F	Honeywell Howard Leight	**3NKX2**
Mfr. No. H10	3M Peltor	**3NLC7**
X1A and X1P3E Peltor Earmuffs X Series	3M Peltor	**21DE24**
X2A and X2P3E Peltor Earmuffs X Series	3M Peltor	**21DE25**
X3A and X3P3E Peltor Earmuffs X Series	3M Peltor	**21DE26**
X4A and X4P3E Peltor Earmuffs X Series	3M Peltor	**21DE27**
X5A and X5P3E Peltor Earmuffs X Series	3M Peltor	**21DE28**
Mfr. No. R-01526	Honeywell Howard Leight	**36G712**
Supreme Pro™ Headsets	MSA	**3THJ3**
Ear Muffs	Honeywell Howard Leight	**6AV10**
Howard Leight Mfr. No. 1030110 Stereo Ear Muffs	Honeywell Howard Leight	**6TUK9**



No. 3NKW7



No. 3THJ3



No. 3NHG5



No. 6AV10



Frameless Safety Glasses

- Meet ANSI Z87.1
- 99.9% UV protection

A. Addison™—Has 9-base lenses and provides 180° field of vision. Curved temples with soft tips. Nonslip nosepiece.

B. Brooklyn™—Wraparound frame, curved temples with integrated side protection, and universal nosebridge.

C. Chaise Rocks™—Nonslip design with bayonet temples and universal nosebridge.

D. Condor® V—Features flexible, contoured spatula temples.

E. Condor® Mini V—Smaller size eyewear features flexible spatula shield temples.

F. Condor® Visitor—Universal size with spatula temples. Nos. 4JND6 to 4JND8 are 1-pc. construction, vented style. Fit over most prescription glasses, except No. 4VCL8 is designed for smaller faces.

G. Enticer™—1-pc. wraparound design with cushioned bayonet temples and nosepiece.

H. Jbird™—Has 9-base lenses and spatula temples with soft tips. Allows 180° field of vision.

I. Kramer VP—Wraparound design and soft rubber temple ends for a more comfortable fit.

J. Oxulux™—Wraparound design with contoured padded temples, nonslip gel pad, and universal nosebridge.

K. Oxulux™ OTG (Over-the-Glass)—Wraparound design with contoured padded bayonet temples, nonslip gel pad, and universal nosebridge. Universal size. Fits over most prescription glasses.

L. Quest™—1-pc. design with adjustable temples and integral brow bridge provides a wide field of vision.

M. Quest™ OTG (Over-the-Glass)—Extra-large size. 1-pc. design with adjustable temples and integral brow bridge provides a wide field of vision.

N. Persuader™—Contoured floating lens improves field of vision. Wraparound frame, bayonet temples with cushioned sleeves, and soft gel nosepiece.

O. Wasko™—1-pc. molded frame and lens with padded flexible temples.

P. Wasko™ Mini—1-pc. molded frame and lens with padded flexible bayonet temples. Small size.

Q. Winger™—Integrated side shields and metal alloy temples with nonslip rubber head grips.

Key	Lens Color	Lens Coating	Frame Color	Item No.	
Addison™					
A	Clear	Scratch-Resistant	Clear	4VCK9	
	Clear	Anti-Fog	Clear	4VCL2	
	Gray	Scratch-Resistant	Gray	4VCL1	
	Gray	Anti-Fog	Gray	4VCL4	
	Amber	Scratch-Resistant	Amber	4VCL5	
Brooklyn™					
B	Clear	Scratch-Resistant	Black	4VCJ2	
	Clear	Anti-Fog	Black	4VCJ3	
	Gray	Scratch-Resistant	Black	4VCJ4	
	Gray	Anti-Fog	Black	4VCJ5	
	Indoor/Outdoor	Scratch-Resistant	Black	4VCJ8	
	Blue Mirror	Scratch-Resistant	Black	4VCJ9	
Chaise Rocks™					
C	Clear	Scratch-Resistant	Black/Clear	4VCE2	
	Clear	Anti-Fog, Scratch-Resistant	Black/Clear	4VCE5	
	Gray	Anti-Fog, Scratch-Resistant	Gray	4VCE6	
Condor® V					
D	Clear	Uncoated	Clear Frosted	4EY97	
	Clear	Scratch-Resistant	Clear Frosted	1FYX6	
	Clear	Anti-Fog	Clear Frosted	1FYX7	
	Gray	Scratch-Resistant	Gray Frosted	1FYX8	
	Gray	Anti-Fog	Gray Frosted	4VCG2	
	Silver Mirror	Scratch-Resistant	Gray Frosted	2ERE6	
	Indoor/Outdoor	Scratch-Resistant	Clear Frosted	1XPR2	
	Amber	Scratch-Resistant	Amber Frosted	1XPJ5	
	Light Blue	Scratch-Resistant	Blue Frosted	1XPK6	
	Blue Mirror	Scratch-Resistant	Brown	4VCF8	
Condor® Mini V					
E	Clear	Uncoated	Frosted Clear	4VCG3	
	Clear	Scratch-Resistant	Frosted Clear	1ETK2	
	Clear	Anti-Fog	Frosted Clear	1ETK3	
	Gray	Scratch-Resistant	Frosted Gray	1ETK5	
	Gray	Anti-Fog	Frosted Gray	4VCG4	
	Indoor/Outdoor	Scratch-Resistant	Frosted Clear	1ETK6	
	Silver Mirror	Scratch-Resistant	Frosted Gray	4VCG6	
	Amber	Scratch-Resistant	Frosted Amber	1ETK4	
	Light Blue	Scratch-Resistant	Frosted Light Blue	4VCG5	
	Blue Mirror	Scratch-Resistant	Brown	4VCG7	
Condor® Visitor					
F	Clear	Scratch-Resistant	Clear	4VCL8	*
	Clear	Uncoated	Clear	4VCL9	†
	Gray	Scratch-Resistant	Gray	4JND6	
	Amber	Scratch-Resistant	Amber	4JND7	
	Green	Scratch-Resistant	Dark Green	4JND8	
Enticer™					
G	Clear	Scratch-Resistant	Black	1FYY3	
	Clear	Anti-Fog	Black	4VCE9	
	Gray	Scratch-Resistant	Black	1FYY4	
	Indoor/Outdoor	Scratch-Resistant	Black	1FYY5	
Jbird™					
H	Clear	Scratch-Resistant	Black	4VCK2	
	Clear	Anti-Fog	Black	4VCK4	
	Gray	Scratch-Resistant	Black	4VCK3	
	Indoor/Outdoor	Scratch-Resistant	Black	4VCK8	
	Amber	Scratch-Resistant	Black	4VCK5	
	Blue Mirror	Scratch-Resistant	Black	4VCK6	
Kramer VP					
I	Gray	Anti-Fog	Black	52WR03	
	Clear	Anti-Fog	Black	52WR04	
Oxulux™					
J	Clear	Scratch-Resistant	Clear	2VKZ9	
	Gray	Scratch-Resistant	Gray	2VLA1	
	Indoor/Outdoor	Scratch-Resistant	Clear	2VLA3	
	Silver Mirror	Scratch-Resistant	Gray	2VLA4	
	Light Blue	Scratch-Resistant	Light Blue	2VLA2	
Oxulux™ OTG (Over-the-Glass)					
K	Clear	Anti-Fog, Scratch-Resistant	Gray	4VCD5	
	Gray	Anti-Fog, Scratch-Resistant	Gray	4VCD6	
Quest™					
L	Clear	Uncoated	Black	1VW15	
	Clear	Scratch-Resistant	Black	1VW16	
	Gray	Scratch-Resistant	Black	1VW18	
Quest™ OTG (Over-the-Glass)					
M	Clear	Scratch-Resistant	Black	1VW17	
Persuader™					
N	Clear	Anti-Fog, Scratch-Resistant	Black	4VAW4	
	Gray	Scratch-Resistant	Black	4EY99	
	Gray	Anti-Fog, Scratch-Resistant	Black	4VAW5	
	Indoor/Outdoor	Scratch-Resistant	Silver	4FA10	
Wasko™					
O	Clear	Scratch-Resistant	Frosted Clear	5JE26	
	Clear	Anti-Fog	Clear	4VCH1	
	Gray	Scratch-Resistant	Frosted Gray	5JE27	
	Gray	Anti-Fog	Gray	4VCH2	
	Indoor/Outdoor	Scratch-Resistant	Black/Clear	1FYY1	
	Silver Mirror	Scratch-Resistant	Gray	4VCH3	
	Amber	Scratch-Resistant	Frosted Amber	1FYX9	
	Light Blue	Scratch-Resistant	Frosted Blue	1FYY2	
Wasko™ Mini					
P	Clear	Scratch-Resistant	Clear	4VCD7	*
	Gray	Scratch-Resistant	Gray	4VCD8	*
Winger™					
Q	Clear	Scratch-Resistant	Chrome	1VT96	
	Gray	Scratch-Resistant	Chrome	1VT97	
	Indoor/Outdoor	Scratch-Resistant	Chrome	1VT98	
	Silver Mirror	Scratch-Resistant	Silver	4VAZ6	

** Small size. † Pkg. of 12.*

Find Eyewear Accessories on page 1665.



A.
No. 52YP41



B.
No. 1VW10



C.
No. 4VCH6



D.
No. 4VAY9



F.
No. 4VAX7



G.
No. 23Y625



H.
No. 1FYY9



I.
No. 1VW24



J.
No. 30ZC63



K.
No. 1VW12

Half-Frame Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Wraparound design with universal nosebridge.

A. Agitator™—Rubber temple tips and the included lanyard cord help keep the eyewear secure. Half-frame glasses have ventilated, straight-back flexible temples and a built-in rubber nosepiece.

B. Maddog™ III—1-pc. design with adjustable temples and integral side shields.

C. Nagle™—Wraparound frame with 10-base lenses and curved temples. Allows 180° field of vision. Universal nosepiece.

D. Nome™—Spatula temples and clear, soft, gel nose pad.

F. Persuader™ Metal—Wraparound metal frame with spatula temples and adjustable nosebridge.

G. PMXTREME™—Built-in rubber nosepiece for a comfortable fit and rubber temple tips help keep glasses secure and in place. Include a black lanyard cord for extra security while wearing.

H. ProFlyer™—Dual polycarbonate lenses, bayonet temples, and metal frame.

I. Spirit™—1-pc. design with adjustable temples, integral side shields, and wide field of vision.

J. Thecla™—Durable polycarbonate frame with dual lenses. Flexible fingers on the soft nosepiece and long padded temple tips for comfort and fit. Includes cord.

K. Thunder™—Ratchet-action temples and nonslip rubber head grips.

★ Condor

Key	Lens Color	Lens Coating	Frame Color	Item No.
Agitator™				
A	Smoke Mirror	Scratch-Resistant	Black	52YP40
	Amber	Scratch-Resistant	Black	52YP41
	Gray	Antifog, Anti-Static, Scratch-Resistant	Camouflage	52YP42
	Bronze	Antifog, Anti-Static, Scratch-Resistant	Camouflage	52YP43
	Blue Mirror	Scratch-Resistant	Black	52YP44
	Infinity Blue	Scratch-Resistant	Black	52YP45
Maddog™ III				
B	Clear	Scratch-Resistant	Red/White/Blue	4VCA2
	Clear	Scratch-Resistant	Black	1VT99
	Gray	Scratch-Resistant	Red/White/Blue	4VCA3
	Gray	Scratch-Resistant	Black	1VW10
Nagle™				
C	Clear	Scratch-Resistant	Metallic Blue	4VCH6
	Clear	Antifog	Metallic Blue	4VCH9
	Gray	Scratch-Resistant	Metallic Blue	4VCH7
Nome™				
D	Clear	Scratch-Resistant	Blue	4VAZ1
	Clear	Antifog	Black	4VAY5
	Indoor/Outdoor	Scratch-Resistant	Black	1FYZ6
	Indoor/Outdoor	Scratch-Resistant	Blue	4VAZ3
	Silver Mirror	Scratch-Resistant	Black	1FYZ5
	Amber	Scratch-Resistant	Black	4VAY7
	Light Blue	Scratch-Resistant	Black	4VAY6
	Blue Mirror	Scratch-Resistant	Blue	4VAY9
Persuader™ Metal				
F	Gray	Scratch-Resistant	Silver	4VAX7

Key	Lens Color	Lens Coating	Frame Color	Item No.
PMXTREME™				
G	Clear	Scratch-Resistant	Black	23Y617
	Clear	Antifog, Anti-Static, Scratch-Resistant	Black	23Y618
	Gray	Scratch-Resistant	Black	23Y619
	Gray	Antifog, Anti-Static, Scratch-Resistant	Black	23Y620
	Indoor/Outdoor	Scratch-Resistant	Black	23Y625
ProFlyer™				
H	Gray	Scratch-Resistant	Silver	1FYY8
	Silver Mirror	Scratch-Resistant	Silver	1FYY9
Spirit™				
I	Clear	Scratch-Resistant	Black	1VW22
	Clear	Scratch-Resistant	Blue	1VW24
	Clear	Antifog, Scratch-Resistant	Black	4VCC7
	Clear	Antifog, Scratch-Resistant	Blue	4VCC9
	Clear	Antifog, Scratch-Resistant	Red/White/Blue	4VCD2
Thecla™				
J	Clear	Scratch-Resistant	Black	30ZC63
	Smoke	Scratch-Resistant	Black	30ZC64
	Smoke	Antifog	Black	30ZC61
	Indoor/Outdoor	Scratch-Resistant	Black	30ZC67
	Shade 3.0	Scratch-Resistant	Black	30ZC68
	Shade 5.0	Scratch-Resistant	Black	30ZC69
Thunder™				
K	Clear	Scratch-Resistant	Black	1VW11
	Clear	Scratch-Resistant	Blue	1VW14
	Gray	Scratch-Resistant	Black	1VW12
	Indoor/Outdoor	Antifog, Scratch-Resistant	Black	1VW13
	Shade 5.0	Scratch-Resistant	Black	4VCA7



A.
No. 52YP46



B.
No. 52YP36



C.
No. 1FYZ1



D.
No. 52WR01

Full-Frame Safety Glasses

- Meets ANSI Z87.1-2010
- 99.9% UV protection

A. Antagonist™—Compact, lightweight, wraparound design features flexing straight temples for secure fit. Polycarbonate lenses. Nylon frame.

B. Elect™—Lightweight contemporary frame has an integrated nosepiece. The wraparound sunglass style fits all faces. With microfiber storage bag.

C. Freeze™ II—Nonwraparound lenses with bayonet temples and molded-in nosepiece.

D. Swagger™—Full-frame wraparounds have bayonet temples with soft rubber ends for comfort and fit. Polycarbonate lenses and frame.

Key	Lens Color	Lens Coating	Frame Color	Item No.
Antagonist™				
A	Clear	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**52YP46**
	Gray	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**52YP47**
	Blue Mirror	Scratch-Resistant	Black	**52YP48**
Elect™				
B	Clear	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**52YP35**
	Smoke	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**52YP36**
Freeze™ II				
C	Clear	Scratch-Resistant	Black	**1FYZ1**
	Gray	Scratch-Resistant	Black	**1FYZ2**
Swagger™				
D	Clear	Anti-Fog	Black	**52WR01**
	Gray	Anti-Fog	Black	**52WR02**



No. 22ED38

Sealed Safety Glasses

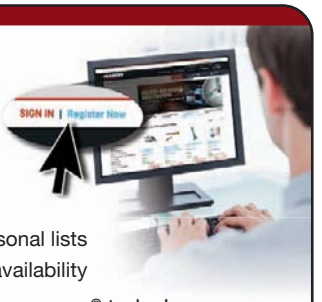
- Meet ANSI Z87.1-2010
- 99.9% UV protection

Nylon frame has foam in the facepiece that fits snugly around eyes, and indirect venting helps keep liquid splash from getting in. Versatile Donyi™ design lets you switch as needed from temples to elastic strap.

Lens Color	Lens Coating	Frame Color	Item No.
Clear	Scratch-Resistant	Black	**22ED38**
Clear	Anti-Fog	Black	**22ED39**
Clear	Anti-Fog, Scratch-Resistant	Black	**22ED40**
Silver Mirror	Anti-Fog	Black	**22ED43**

REGISTER NOW!

Enjoy These Features & More!



- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!

Find Eyewear Accessories on page 1665.


A.
No. 4AG93


B.
No. 3TB96


C.
No. 2CVD2


D.
No. 4XR20


E.
No. 401Y60


F.
No. 4T513


G.
No. 6T359

Frameless Safety Glasses

Honeywell UVEX

- Meet ANSI Z87.1-2015
- Meets CSA Z94.3
- 99.9% UV protection

A. Astro OTG® (Over-the-Glass) 3001—Designed to be worn over prescription glasses. Unilens wraparound design features universal nosebridge; cushioned, adjustable temple lengths; and adjustable lens angle.
- Meets Military V_0 Ballistic Test for Impact

B. Falcon®—9-base unilens provides coverage with a wide field of vision. Molded-in nosebridge, adjustable temple lengths, and lens angle adjustment.

C. Ignite™—Frameless design features 9-base wraparound unilens with adjustable nosepiece and cushioned temples.
- Meets Military V_0 Ballistic Test for Impact

D. Skyper®—Wraparound unilens has molded-in nosebridge and side shields. Adjustable comfort-cushioned temples with adjustable temple lengths and lens angle adjustment.

E. SVP 200 Series—Frameless, low-profile glasses fit most faces and are very lightweight for all-day wear. Wraparound 10-base lenses, molded nosepiece, and comfortable, flexible temple tips.

F. Ultra-spec® 2000—Unilens design is antistatic with built-in side shields, browguard, and adjustable temple lengths.

G. Ultra-spec® OTG (Over-the-Glass) 2001—Designed to be worn over prescription glasses. Molded-in side shields, browguard, universal nosebridge, and flexible and adjustable temple lengths.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Astro OTG® (Over-the-Glass) 3001					
A	Clear	Anti-Fog	Black	S2500C	4AG93
	Gray	Scratch-Resistant	Black	S2504	4BC01
	Shade 3.0		Black	S2508	5AD84
	Shade 5.0		Black	S2509	2AD38
Falcon®					
B	Clear	Anti-Fog	Black	S4500X	3TB94
	Espresso		Black	S4501X	3TB96
Ignite™					
C	Clear	Scratch-Resistant	Black/Silver	S4400	2CVD2
	Clear		Metallic Red/Silver	S4410	2CVD6
	Clear	Anti-Fog	Black/Silver	S4400X	2CVD3
	Clear		Metallic Red/Silver	S4410X	2CVD7
	Gray		Black/Silver	S4401X	2CVD4
	Gray		Metallic Red/Silver	S4411X	2CVD8
	Gray	Scratch-Resistant	Black/Silver	S4403	3NUL4
	SCT-Reflect 50		Black/Silver	S4402	2CVD5
	SCT-Reflect 50		Metallic Red/Silver	S4412	3NUL3
Skyper®					
D	Clear	Anti-Fog	Black	S1900X	4XR20
SVP 200 Series					
E	Clear	Scratch-Resistant	Clear	SVP200	401Y53
	Clear	Anti-Fog	Clear	SVP201	401Y54
	Clear		Blue	SVP205	401Y58
	Clear		Pink	SVP208	401Y61
	Gray	Scratch-Resistant	Gray	SVP202	401Y55
	Gray	Anti-Fog	Gray	SVP203	401Y56
	Amber		Amber	SVP204	401Y57
	Blue Mirror	Scratch-Resistant	Blue	SVP206	401Y59
	Indoor/Outdoor		Blue	SVP207	401Y60
Ultra-spec® 2000					
F	Clear	Anti-Fog	Black/Clear	S0250X	4T513
Ultra-spec® OTG (Over-the-Glass) 2001					
G	Clear	Scratch-Resistant	Black/Clear	S0112	6T359
	Gray		Black/Clear	S0113	6T360


A.
No. 3TE13


B.
No. 2CVG8


C.
No. 2CVH2


D.
No. 3UXU5

Half-Frame Safety Glasses

Honeywell UVEX

- Meet ANSI Z87.1-2015
- 99.9% UV protection

A. A400 Series—Wraparound design with universal nosebridge and integrated side protection.
- Meets CSA Z94.3

B. A700 Series—Wraparound 9-base design provides distortion-free 180° field of vision. Universal nosebridge and soft temple tips.
- Meets CSA Z94.3

C. A800 Series—Wraparound 9-base lenses with distortion-free 180° field of vision. Flexible temples and soft, nonslip nosepiece.

D. A900 Series—Wraparound design with soft padded temple and nonslip nosebridge.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
A400 Series					
A	Clear	Scratch-Resistant	Clear	A400	3TE11
	Gray		Gray	A401	3TE12
	Amber		Amber	A402	3NRZ1
	Silver Mirror		Gray	A403	3TE13
	Indoor/Outdoor		Clear	A404	3NRZ2
A700 Series					
B	Clear	Antifog	Clear	A705	2CVH1
	Clear	Scratch-Resistant	Clear	A700	2TFW9
	Amber		Amber	A702	2CVG8
	TSR Gray		Gray	A701	3NUD3
	Indoor/Outdoor Silver Mirror		Gray	A704	3NUD4
	Blue Mirror		Gray	A703	2CVG9
A800 Series					
C	Clear	Scratch-Resistant	Clear	A800	2TFX1
	Clear	Antifog	Clear	A805	2CVH2
	TSR Gray	Scratch-Resistant	Gray	A801	3NUD5
	TSR Gray	Antifog	Gray	A806	3NUD6
	Amber	Scratch-Resistant	Amber	A802	3UXR4
	Indoor/Outdoor Silver Mirror		Clear	A804	2DBD3
	Blue Mirror		Gray	A803	3UXR5
A900 Series					
D	Clear	Scratch-Resistant	Black	A900	3UXU2
	Clear	Antifog	Black	A901	3UXU3
	TSR Gray	Scratch-Resistant	Black	A902	3UXU4
	TSR Gray	Antifog	Black	A903	3UXU5
	Silver Mirror	Scratch-Resistant	Black	A904	3UXU6

Find Eyewear Accessories on page 1665.



A.
No. 49ZY75



B.
No. J6536



C.
No. 4R985



D.
No. 6WE83



E.
No. H1178



F.
No. 4UCJ2



G.
No. H1180



H .
No. 4FE60



I.
No. 24C266



J.
No. E9399



K.
No. 3PA44



L.
No. 1FEU7



N.
No. 9FAD0

Half-Frame Safety Glasses

Honeywell
UVEX

- 99.9% UV protection

A. Acadia®—Versatile, sporty, indoor/outdoor wraparound style has sculpted, padded temples and premium integrated hinge mechanisms for fit, comfort, and compliance. Soft ribbed nosepiece is designed to minimize slippage.

Meet ANSI Z87.1

B. Avatar™—Designed for maximum all-day comfort and customizable fit, with indirect venting, ratchet temples, 9-base wraparound, adjustable temple length and lens tilt, and flexible nose pads.
- Meet ANSI Z87.1 and CSA Z94.3

C. Bandit™—Wraparound unilens design. Features dual lens with replaceable lenses, adjustable temples, and molded-in side shields.

Meet ANSI Z81.1

D. Fuse®—Wraparound 9-base lenses with adjustable nose pads and soft, flexible temple tips. Includes adjustable, breakaway retainer.
- Meet ANSI Z81.1 and CSA Z94.3

E. Genesis®—Dual 9-base wraparound lenses feature a shock-absorbing browguard and a ventilation channel to prevent fogging. Unilens design, flexible nose pads, adjustable temple length, and lens angle adjustment.
- Meet ANSI Z87.1 and CSA Z94.3

F. Genesis® S—Same features as Genesis® eyewear, but feature a 6% smaller frame for workers with slimmer facial profiles.
- Meet ANSI Z87.1 and CSA Z94.3
- Meet Military V0 Ballistic Test for Impact

G. Genesis X2®—Same features as Genesis® eyewear, but with a sportier design and cushioned temples.
- Meet ANSI Z87.1 and CSA Z94.3

H. Genesis XC®—Same features as Genesis® eyewear, but provide 20% more coverage for extra protection.

I. Mercury™—Wraparound dual-lens design offers a 180° field of vision with additional side protection. Soft, flexible nosepiece conforms to almost any nasal profile to reduce slippage while soft, padded temples provide secure, no-slip fit.
- Meet ANSI Z87.1 and CSA Z94.3

J. Millennia®—Wraparound dual 9-base unilens design. Feature browguard and built-in side shields for top and side protection. Include adjustable, breakaway retainer.
- Meet ANSI Z87.1 and CSA Z94.3

K. Millennia Sport™—Lenses have curved temples and universal nosebridge. Includes adjustable, breakaway retainer.
- Meets ANSI Z87.1 and CSA Z94.3

L. Protégé®—Expandable, floating unilens design with wraparound brow, cushioned temples, and a soft, flexible nosepiece.
- Meet ANSI Z87.1 and CSA Z94.3

M. Vapor® and N. Vapor® II—Wraparound frame with 9-base lenses provides 180° field of vision. Universal nosepiece. No. 4FE55 include adjustable, breakaway retainer.

Meet ANSI Z87.1 and CSA Z94.3

Key	Lens Color	Lens Coating	▶CHOOSE: Frame Color	Item No.
Acadia®				
A	Clear	Antifog	Black, Brown	**J6404**
	Gray		Black	**49ZY71**
	Amber		Black, Brown	**J6404**
	Espresso		Brown	**49ZY77**
	SCT-Reflect 50	Scratch-Resistant	Black, Brown	**J6404**
	Red Mirror		Black	**49ZY74**
	Blue Mirror		Black	**49ZY75**
	Orange Mirror		Brown	**49ZY80**
Avatar™				
B	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black, Red, Blue, Teal	**J6536**
	Clear	Scratch-Resistant	Black, Red, Blue, Teal	**J5988**
	Gray	Antifog, Hydrophilic, Hydrophobic,	Black, Red, Blue, Teal	**J6536**
	Amber	Scratch-Resistant	Black	**401Y30**
	Reflect 50	Scratch-Resistant	Black, Red, Teal	**J5988**
	Blue Mirror		Black, Red, Blue	**J5988**
Bandit™ *				
C	Clear	Antifog	Black	**4R985**
	Amber	Scratch-Resistant	Black	**3WLJ4**
	Espresso		Black	**4R987**
	Gold Mirror		Black	**4R989**
Fuse®				
D	Clear	Scratch-Resistant	Gunmetal	**6WE83**
	Clear	Antifog	Gunmetal	**3NRZ3**
	TSR Gray	Scratch-Resistant	Gunmetal	**6WE84**
	Silver Mirror		Gunmetal	**6WE85**

Key	Lens Color	Lens Coating	▶CHOOSE: Frame Color	Item No.
Genesis® *				
E	Clear	Scratch-Resistant	Black, Vapor Blue, Red/White/Blue	**H1178**
	Clear	Antifog	Black, Vapor Blue, Red/White/Blue	**H1178**
	Clear	Antifog, Scratch-Resistant	Black	**H1178**
	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black, Vapor Blue, Red/White/Blue	**J5873**
	Amber	Scratch-Resistant	Black, Vapor Blue	**H1178**
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA36**
	Espresso	Antifog	Black, Vapor Blue	**H1178**
	Espresso	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black, Vapor Blue	**J5873**
	Dark Gray		Black	**55TA44**
	Gray		Black	**55TA45**
	Gold Mirror	Scratch-Resistant	Black, Vapor Blue	**H1178**
	SCT-Gray	Antifog	Black	**H1178**
	SCT-Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Clear	**55TA37**
	SCT-Low IR		Black	**55TA41**
	SCT-Blue		Black	**55TA43**
	SCT-Reflect 50	Scratch-Resistant	Black	**H1178**
	Shade 2.0		Black	**H1178**
	Shade 2.0	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA38**
	Shade 3.0	Scratch-Resistant	Black	**H1178**
	Shade 3.0	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA39**
	Shade 5.0	Scratch-Resistant	Black	**H1178**
	Shade 5.0	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA40**
	Vermillion		Black	**55TA42**
Genesis® S				
F	Clear	Scratch-Resistant	Black/Pewter	**4UCH8**
	Clear	Antifog	Black/Pewter	**4UCH9**
	Clear	Antifog, Scratch-Resistant	Black/Pewter	**4UCJ1**
	Amber	Scratch-Resistant	Black/Pewter	**4UCJ2**
	SCT-Reflect 50		Black/Pewter	**4UCJ3**
Genesis X2®				
G	Clear	Scratch-Resistant	Black/Yellow	**H1180**
	Clear	Antifog	Navy/Silver	**2CVF3**
	Espresso	Scratch-Resistant	Black/Yellow	**5CHE9**
	Espresso	Antifog	Black/Yellow	**5CHF0**
	SCT-Reflect 50	Scratch-Resistant	Navy/Silver	**2CVF4**
Genesis XC® *				
H	Clear	Scratch-Resistant	Black	**3JTR5**
	Clear	Antifog	Black	**4FE60**
	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**38TJ82**
	Gray	Scratch-Resistant	Black	**3NRW4**
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA66**
	Gray	Antifog	Black	**4FE61**
	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**38TJ83**
	50% Gray		Black	**55TA67**
	SCT-Reflect 50	Scratch-Resistant	Black	**3NRW5**
	SCT-Gray	Antifog	Black	**3NRW6**
	SCT-Low IR		Black	**3NRW7**
	SCT-Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**55TA61**
	SCT-Vermillion		Black	**55TA68**
	SCT-Blue		Black	**55TA69**
	SCT-Low IR		Black	**55TA62**
	Shade 2.0		Black	**55TA63**
	Shade 3.0		Black	**55TA64**
	Shade 5.0		Black	**55TA65**

CONTINUED

CONTINUED

Find Eyewear Accessories on page 1665.

Half-Frame Safety Glasses

Honeywell UVEX

Key	Lens Color	Lens Coating	▶CHOOSE: Frame Color	Item No.
Genesis XC® Prescription Insert Holder				
H	—	—	Silver	4FE62
Mercury™				
I	Clear	Scratch-Resistant	Black/Gray	24C266
	Clear	Antifog	Black/Gray	24C267
	Gray	Scratch-Resistant	Black/Gray	24C268
	Gray	Antifog	Black/Gray	24C269
	Amber	Scratch-Resistant	Black/Gray	24C270
	Amber	Antifog	Black/Gray	24C271
	SCT-Reflect 50	Scratch-Resistant	Black/Gray	24C272
	Silver Mirror		Black/Gray	24C273
	Blue Mirror		Black/Gray	24C274
Millennia®				
J	Clear	Scratch-Resistant	Black, Blue	E9399
	Clear	Antifog	Black	3PA38
	Gray	Scratch-Resistant	Black	4YH39
	SCT-Reflect 50		Black	4YH40
	Silver Mirror		Black	4YH41
Millennia Sport™				
K	Clear	Scratch-Resistant	Black	3PA44

Key	Lens Color	Lens Coating	▶CHOOSE: Frame Color	Item No.
Protege®				
L	Clear	Scratch-Resistant	Metallic Black/Orange, Sandstone/Orange	F8585
	Clear	Antifog	Metallic Black/Orange, Sandstone/Orange	F8585
	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black, Sandstone	J5875
	Gray	Antifog	Metallic Black	1FEU7
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA83
	Gray	Antifog	Sandstone/Orange	1FEV1
	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black, Sandstone	J5875
	SCT-Reflect 50	Scratch-Resistant	Metallic Black/Orange, Sandstone/Orange	F8585
	SCT-Blue	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA82
	SCT-Low-IR		Black	55TA84
	Silver Mirror	Scratch-Resistant	Metallic Black/Orange	4UCN9
Vapor®				
M	TSR Gray	Scratch-Resistant	Metallic Blue	4FE55
Vapor® II				
N	Clear	Scratch-Resistant	Black	9FAD0

** Replacement lenses available on Grainger.com®.*



A.
No. 6T273



B.
No. 55TA35



C.
No. 19UA87



D.
No. 3TB99



E.
No. 6T361



F.
No. 5CHF2
(Lenses Sold Separately)

Full-Frame Safety Glasses

Honeywell UVEX

- Meet ANSI Z87.1-2015
- 99.9% UV protection

A. Astrospec 3000®—Unilens wraparound design with universal nosebridge, adjustable lens angle, and replaceable lenses.
- Meets CSA Z94.3
- Meets Military V_0 Ballistic Test for Impact

B. Hypershock™—Dielectric glasses are nonconductive, making them ideal for applications where accidental exposure to an electrical charge is possible. The full frame design offers high impact protection, with streamlined padded temples and a molded nosepiece for a more secure and comfortable fit. Uvextreme Plus® anti-fog lens coating provides you fog-free vision and greater scratch resistance for long life.
- Meet CSA Z94.3-2007

C. Livewire™ Sealed Eyewear—Foam subframe fits contours around the eyes for a comfortable seal. Padded, flexing temples with lens angle adjustment. Convert for goggle use with the included adjustable cloth headband. Hydrophilic/hydrophobic HydroShield® coating technology offers longer-lasting fog-free performance.
- Meets CSA-Z94.3

D. Tomcat®—Dual-lens design with metal frame. Adjustable nose pads and flexible padded temple grips.
- Meet CSA Z94.3-2007

E. Ultra-spec® 1000—Wraparound design. Uncoated unilens with molded-in side shields, browguard, and universal nosebridge.
- Meets CSA Z94.3

F. Uvex® RX Frame Only—Prescription-adaptable, unisex frame features adjustable nose pad bridge, regular hinge, and skull temples. Includes removable dust dam. Style number SW06E. Lenses sold separately.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Astrospec 3000®					
A	Clear	Scratch-Resistant	Black	S135	3KJ41
	Clear		Blue	S129	3KJ40
	Clear		Red/White/Blue	S1169	3KJ39
	Clear	Antifog	Black	S1359C	6T270
	Clear		Blue	S1299C	6T271
	Clear		Red/White/Blue	S1169C	6T273
	Gray	Scratch-Resistant	Black	S1369	6T274
	Gray		Red/White/Blue	S1179	6T277
	Shade 3.0		Black	S1111	3AX39
	Shade 5.0		Black	S1112	3AF26
Astrospec 3000® Replacement Lenses					
A	Clear	Scratch-Resistant	—	S535	3KN11
	Clear	Antifog	—	S535C	6T278
	Gray	Scratch-Resistant	—	S536	6T279
Hypershock™					
B	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2950X	55TA27
	Clear		Clear	S2965X	55TA28
	Clear		Black	S2940HS	55TA29
	Gray		Black	S2941HS	55TA30
	Amber		Black	S2942HS	55TA31
	SCT-Blue		Black	S2951HS	55TA32
	Clear		Brown	S2960HS	55TA33
	Espresso		Brown	S2961HS	55TA34
	Clear		Clear	S2970HS	55TA35

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Livewire™ Sealed Eyewear					
C	Clear	Antifog	Black	S2600XP	19UA81
	Clear		Silver	S2620XP	19UA90
	Clear	Antifog, Scratch-Resistant	Black	S2600D	19UA82
	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Silver	S2620HS	54EN01
	Amber	Antifog	Black	S2602XP	19UA84
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2602HS	54EM97
	Espresso	Antifog	Black	S2601XP	19UA83
	Gray		Silver	S2621XP	19UA91
	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Silver	S2621HS	54EN02
	SCT-Reflect 50	Antifog	Silver	S2624XP	19UA92
	SCT-Reflect 50		Black	S2604XP	19UA85
	SCT-Low IR		Black	S2609XP	19UA89
	SCT-Gray		Black	S2605XP	19UA86
	SCT-Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2605HS	54EM98
	Shade 3.0	Antifog	Black	S2607XP	19UA87
	Shade 5.0		Black	S2608XP	19UA88
	Low IR	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2609HS	54EM99
Tomcat®					
D	Clear	Scratch-Resistant	Gunmetal	S2450	3TB97
	Gray		Gunmetal	S2451	3TB98
	Silver Mirror		Gunmetal	S2453	3TB99
	SCT-Reflect 50		Gunmetal	S2454	3TE10
Ultra-spec® 1000					
E	Clear	Uncoated	Clear	S301CS	6T361
Uvex® RX Frame Only					
F	—	—	Yellow/Brown/Clear	18892	5CHF2
	—		Orange/Black/Clear	18893-H5	5CHF3

Scan. Order. Done.
Details on page A1.


No. 12A562


No. 12A564

North Adaptec® Safety Glasses

Honeywell NORTH

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Multiadjustable design provides a comfortable, customized fit for almost any face, with adjustable nosebridge, vented cushioned frame, and ratcheting temple hinges. Temple tension adjustment helps prevent slipping and allows comfortable extended wear. Hydrophilic/hydrophobic Uvex HydroShield® coating technology offers 90x longer-lasting fog-free performance.

Lens Color	Lens Coating	Frame Color	Mfr. Model	NARROW Item No.	REGULAR Item No.	WIDE Item No.
Half-Frame						
Clear	Anti-Fog, Anti-Static, Scratch-Resistant	Dark Blue/Gray	T5900	12A553	12A561	12A569
Clear		Black/Red	T5900	12A554	12A562	12A570
Clear	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black/Red	T5900	401Y68	401Y74	401Y64
Clear		Blue	T5900	401Y70	401Y76	401Y65
Smoke	Anti-Fog, Anti-Static, Scratch-Resistant	Dark Blue/Gray	T5900	12A555	12A563	12A571
Smoke		Black/Red	T5900	12A556	12A564	12A572
Smoke	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black/Red	T5900	401Y66	401Y71	401Y62
Amber	Anti-Fog, Anti-Static, Scratch-Resistant	Black/Red	T5900	12A557	12A565	12A573
Amber	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black/Red	T5900	401Y67	401Y72	401Y63
Smoke		Blue	T5900	401Y69	401Y75	—
IR 5.0		Black/Red	T5900	—	401Y73	—
Full-Frame						
Indoor/Outdoor Mirror	Anti-Fog, Anti-Static, Scratch-Resistant	Black/Red	T5900	12A558	12A566	12A574
Shade 3.0		Black/Red	T5900	12A559	12A567	12A575
Shade 5.0		Black/Red	T5900	12A560	12A568	12A576


No. 38TJ72

Tirade™ Sealed Safety Glasses

Honeywell UVEX

- Met ANSI Z87.1-2010
- Meet CSA Z94.3
- 99.99% UVA/UVB protection

Offer protection in high particulate locations where debris, dirt, and dust present the risk of eye injury. Feature a large unilens design for a wide field of unobstructed peripheral vision, and a soft foam subframe to help ensure a comfortable gap-free fit. The Uvextra® anti-fog coating helps keep lenses clear. Indirect ventilation channels on the subframe provide superior dust filtration. The quick-release hinge system converts easily from temples to headband, with removable temples and standard adjustable headband included.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Clear	Anti-Fog	Black	S4040	38TJ72
Gray	Anti-Fog	Black	S4041	38TJ73
Amber	Anti-Fog	Black	S4042	38TJ74
Silver Mirror	Anti-Fog	Black	S4043	38TJ75
SCT-Reflect 50	Anti-Fog	Black	S4044	38TJ76


No. 35ZA30


No. 35ZA42


No. 35ZA36

Safety Glasses

MCR SAFETY

- Meet ANSI Z87+
- 99.9% UV protection

Backdraft®—Lightweight, frameless design features soft TPR internal side shields for extra protection from particles or debris. Also include secure, comfortable rubber nose pad and temple sleeves. Nos. 35ZA29 and 35ZA31 have superior MAX3™ hard lens coating. Nos. 35ZA30 and 35ZA32 feature MAX6™ coating, with 6 times the antifog properties than traditional coatings.

Pantera®—Hypoallergenic foam seal helps protect eyes from dust and debris. Adjustable temple length provides comfortable fit.

Hornet DX™—Replaceable vented hypo-allergenic foam gasket surrounds the inside of the lens to protect against impact and airborne debris. Include a removable strap for a secure, goggle-like fit in a lightweight design.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Backdraft®				
Clear	Scratch-Resistant	Gun Metal Gray	BD110P	35ZA29
Clear	Antifog, Scratch-Resistant	Gun Metal Gray	BD110PF	35ZA30
Gray	Scratch-Resistant	Gun Metal Gray	BD112P	35ZA31
Gray	Antifog, Scratch-Resistant	Gun Metal Gray	BD112PF	35ZA32
Indoor/Outdoor	Scratch-Resistant	Gun Metal Gray	BD119	35ZA34
Silver Mirror	Scratch-Resistant	Gun Metal Gray	BD117	35ZA33
Full-Frame				
Pantera®				
Clear	Antifog, Scratch-Resistant	Black	PN110AF	35ZA40
Clear	Antifog, Scratch-Resistant	Clear	PN120AF	35ZA42
Gray	Antifog, Scratch-Resistant	Black	PN112AF	35ZA41
Hornet DX™				
Clear	Antifog, Scratch-Resistant	Black	HDX110AF	35ZA35
Gray	Antifog, Scratch-Resistant	Black	HDX112AF	35ZA36
Hornet Accessories				
RX Insert			HDXINSERT	35ZA37
Replacement Elastic Strap			HDXSTRAP	35ZA39


No. 3NTN1


No. 2ETE8


No. 3NTN6


No. 22JJ42

Safety Glasses

MCR SAFETY

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Checklite®—Lightweight single-lens glasses are sized to fit smaller faces. Frameless design features colored spatula temples.

- Meet MIL-PRF-31013 military standards
- Meet CAN/CSA Z94.3-16

Bearkat®—The one-piece wraparound lens design allows you unobstructed vision and the tight fit can provide greater safety. Lenses have a scratch-resistant Duramass® coating and the flexible temples with non-slip soft material offer a comfortable fit. Bearkat® 3 models feature a soft, secure gel nosepiece.

- Meet MIL-PRF-31013 military standards, CAN/CSA Z94.3-16; except Bearkat® 3 only meet ANSI Z87.1-2015

Rubicon®—Curved lens provides distortion-free 180° field of vision. Spring-hinge temples and nonslip temple sleeves.

Klondike® Plus—Features adjustable temples, 11° base curve lens, and TPR nosepiece. 5-position ratchet temples.

Swagger®—Provides great comfort and excellent seal. Nonslip low-profile bayonet temples are thick and wide for better side protection and a bold modern look. Dual lens design. Soft TPR temple and nose pad material for long-wearing comfort.

- Meet ANSI Z87.1-2015
- No. 22JJ40 polarized lenses reduce glare

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Checklite®				
Clear	Scratch-Resistant	Clear	CL110	3NTN2
Clear	Antifog, Scratch-Resistant	Clear	CL110AF	9CT05
Gray	Scratch-Resistant	Smoke	CL112	3NTN4
Indoor/Outdoor		Clear	CL119	3NTN1
Bearkat®				
Clear	Scratch-Resistant	Clear	BK110	3NTZ2
Clear	Antifog, Scratch-Resistant	Black/Clear	BK110AF	3NTZ3
Gray		Black/Gray	BK112AF	3NTZ5
Gray	Scratch-Resistant	Black/Gray	BK112	9W570
Light Blue		Light Blue/Black	BK113	3NTZ6
Indoor/Outdoor		Black	BK119	8E319
Bearkat® 3				
Clear	Scratch-Resistant	Clear	BK310	21U060
Clear	Antifog, Scratch-Resistant	Clear	BK310AF	21U061
Light Blue	Scratch-Resistant	Light Blue	BK313	21U064
Rubicon®				
Clear	Antifog, Scratch-Resistant	Black/Silver	T4110AF	2ETE5
Gray		Black/Silver	T4112AF	2ETE6
Light Blue		Black/Silver	T4113AF	3NTK5
Red/Fire Mirror	Scratch-Resistant	Black/Silver	T411R	2ETE7
Emerald Mirror		Black/Silver	T411G	2ETE8
Half-Frame				
Klondike® Plus				
Clear	Scratch-Resistant	Black	KD310	3NTN6
Gray		Black	KD312	3NTN8
Clear	Antifog, Scratch-Resistant	Black	KD310AF	3NTN7
Indoor/Outdoor		Black	KD319AF	3NTP4
Light Blue	Scratch-Resistant	Black	KD313	3NTP1
Full-Frame				
Swagger®				
Clear	Antifog, Scratch-Resistant	Clear	SR140AF	22JJ41
Gray		Clear	SR142AF	22JJ42
Blue Mirror	Scratch-Resistant	Clear	SR148B	22JJ43
Red/Fire Mirror		Clear	SR14R	22JJ44
Gray		Black	SR112Z	22JJ40 *

** Polarized lens.*

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

Find Eyewear Accessories on page 1665.

Kimberly-Clark PROFESSIONAL

Smith & Wesson® Safety Glasses

- Meet ANSI Z87.1+2010
- 99.9% UV protection

Magnum® 3G—Comfortable 3-point fit and self-adjusting nose pad with rubber fingers. Cut-to-shape lens reduces distortion around the edges.

44 Magnum®—Feature a 4c x 7c base curve so the lenses can hug your face both side to side and vertically for a secure fit. The brown, 1-pc. lenses are ideal for outdoor or bright environments.

Equalizer™—Wraparound dual-lens style with 8-base curve. Sport grip temples help reduce slippage. Includes microfiber carrying bag that can be used as a cleaning cloth.

38 Special™—Contoured design with rubber grip temples for a more secure fit.

Elite™—Wraparound dual-lens style with 8-base curve and wide temple. Includes microfiber carrying bag that can be used as a cleaning cloth.



No. 2LAC2



No. 475P13

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Magnum® 3G				
Clear	Scratch-Resistant	Black	19799	**2LAC1**
Clear	Scratch-Resistant	Platinum	19961	**3WLK1**
Clear	Antifog	Black	19794	**475P15**
Smoke	Scratch-Resistant	Black	19823	**2LAC2**
Yellow	Scratch-Resistant	Black	19826	**2LAC3**
Gold Mirror	Scratch-Resistant	Black	19940	**3WLK3**
44 Magnum®				
Indoor/Outdoor Anti	Antifog	Black	23454	**475P13**
Half-Frame				
Equalizer™				
Clear	Scratch-Resistant	Gunmetal	21294	**3UYD5**
Clear	Antifog, Scratch-Resistant	Gunmetal	21296	**3UYD7**
Amber	Scratch-Resistant	Red	21299	**3UYD6**
Smoke	Antifog, Scratch-Resistant	Gunmetal	21297	**3UYD8**
Indoor/Outdoor	Scratch-Resistant	Gunmetal	21298	**3UXN5**
Blue Mirror	Scratch-Resistant	Blue	21301	**3UXN6**
Full-Frame				
38 Special™				
Clear	Scratch-Resistant	Black	19856	**2LAC4**
Smoke	Scratch-Resistant	Black	19859	**2LAC6**
Elite™				
Clear	Antifog, Scratch-Resistant	Black	21302	**2UYG6**
Smoke	Antifog, Scratch-Resistant	Black	21303	**2UYG5**



No. 3UYD8



No. 2LAC6



No. 2UYG6

Kimberly-Clark PROFESSIONAL

Safety Glasses

- Meet ANSI Z87.1+
- 99.9% UV protection

V30 Nemesis™ VL—Compact, frameless no-brow design improves upward and peripheral vision and accommodates smaller faces. Slip-stop temple reduces slipping. Includes neck cord.

V20 Visio—One-piece polycarbonate lenses with 3-pt. adjustable temples for a customized fit and enhanced comfort. No. 3WMD1 has blue mirror lenses to reduce glare and are ideal for use outdoors.

V30 Nemesis™—Sport style with soft-touch temples. Enhanced nosepiece design channels away sweat. Contoured rubber temples for comfort. Includes neck cord.

V40 HellRaiser™—Sunglass style with soft temples.

V50 Calico™—Lightweight wraparound style has interchangeable temple bars and a head strap for tight fit. Cushioned brow bar provides additional ventilation and comfort.

- Meet CSA Z94.3-2007, EN 166-2001

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
V30 Nemesis™ VL				
Clear	Scratch-Resistant	Gunmetal	20470	**21A170**
Smoke	Scratch-Resistant	Gunmetal	25704	**21A171**
Bronze	Scratch-Resistant	Camouflage	20472	**21A172**
Blue Mirror	Scratch-Resistant	Gunmetal	20471	**475P07**
Indoor/Outdoor	Scratch-Resistant	Gunmetal	29112	**475P08**
Half-Frame				
V20 Visio				
Clear	Antifog, Scratch-Resistant	Clear	14471	**3WMC8**
Clear	Scratch-Resistant	Clear	14470	**3WMD3**
Smoke	Antifog, Scratch-Resistant	Black	14473	**3WMC9**
Smoke	Uncoated	Black	14472	**3WMD4**
Blue Mirror	Scratch-Resistant	Black	14475	**3WMD1**
Indoor/Outdoor	Scratch-Resistant	Black	14476	**3WMD2**
V30 Nemesis™				
Clear	Scratch-Resistant	Black	25676	**2UYF3**
Clear	Antifog, Scratch-Resistant	Black	25679	**3NTT9**
Clear	Antifog	Red	47378	**475P02**
Clear	Antifog	Blue	47384	**475P03**
Clear	Antifog	Silver	47388	**475P04**
Smoke	Scratch-Resistant	Red	22611	**3UXX8**
Smoke	Antifog	Blue	47387	**475P05**
Smoke	Antifog	Silver	47383	**475P06**
Smoke	Antifog, Scratch-Resistant	Black	22475	**21A163**
Smoke	Antifog, Scratch-Resistant	Camouflage	22609	**3UXX6**
Smoke Mirror	Scratch-Resistant	Black	25688	**2UYF4**
Amber	Scratch-Resistant	Black	25659	**2UYF6**
Amber	Antifog	Black	22476	**475P01**
Amber	Antifog, Scratch-Resistant	Camouflage	22610	**3UXX7**
Light Blue	Scratch-Resistant	Blue	19639	**21A164**
Bronze	Scratch-Resistant	Camouflage	19644	**2UYF5**
Indoor/Outdoor	Scratch-Resistant	Black	25685	**2UYF7**
Shade 3.0	Scratch-Resistant	Black	25692	**3UXR6**
Shade 5.0	Scratch-Resistant	Black	25671	**3UXR7**
Full-Frame				
V40 HellRaiser™				
Clear	Scratch-Resistant	Black	20539	**475P11**
Clear	Antifog, Scratch-Resistant	Black	28615	**2UYG4**
Smoke	Scratch-Resistant	Black	25714	**2UYG3**
Amber	Scratch-Resistant	Black	20541	**475P12**
Blue Mirror	Scratch-Resistant	Black	20543	**4VMX5**
Light Blue	Scratch-Resistant	Black	20542	**21A169**
Indoor/Outdoor	Scratch-Resistant	Black	25716	**475P10**
V50 Calico™				
Clear	Antifog, Scratch-Resistant	Black	25672	**21A165**
Smoke	Antifog, Scratch-Resistant	Black	25675	**21A167**
Amber	Antifog, Scratch-Resistant	Black	25674	**21A166**



V30 Nemesis™ VL
No. 21A170



V20 Visio
No. 3WMD2



V30 Nemesis™
No. 2UYF4



V40 HellRaiser™
No. 21A169



V50 Calico™
No. 21A165



A.
No. 4DY81



C.
No. 1VJZ5



D.
No. 46F390



B.
No. 6TKE7



E.
No. 46F398



H.
No. 5PA80



I.
No. 4DY74



J.
No. 2LUV7

Safety Glasses

- Meet ANSI Z87.1
- 99.9% UV protection

A. Virtua™—Wraparound design with contoured, flexible temples.

B. Virtua™ AP—High-wrap lenses fit snug against face for better viewing area. Lightweight frame weighs less than 1 oz.

C. Virtua™ V4—Wraparound design with flexible temples.

D. Virtua™ CCS—Eyewear has a removable foam gasket with airflow vent for a comfortable, cushioning seal to limit exposure to dust. Ideal for humid environments. Includes Corded earplug Control System (CCS) designed to keep eyewear and earplugs attached (earplugs sold separately).
- Meet CSA Z94.3-2007

E, F & G. SecureFit™—Lightweight glasses feature 3M™ Pressure Diffusion Temple Technology that automatically self-adjusts for a secure, comfortable fit.
- Meet CSA Z94.3 (200 Series)

H. BX™—Adjustable-length contoured soft-tip temples, soft nosebridge, and 3 adjustable lens angles.
- Meet CSA Z94.3

I. Metaliks™—Metal frame style with adjustable nosebridge and temple tips.

J. Privo™—Euro-style design with soft-tip temples and soft nosebridge.
- Meet CSA Z94.3

Key	Lens Color	Lens Coating	Temple Color	Mfr. Model	Item No.
Frameless					
Virtua™					
A	Clear	Uncoated	Clear	11228	**5JDW7**
	Clear	Scratch-Resistant	Clear	11326	**4DY81**
	Clear	Antifog	Clear	11329	**5PA86**
	Gray	Scratch-Resistant	Gray	11327	**4DY82**
	Indoor/Outdoor	Scratch-Resistant	Clear	11328	**3NRU1**
	Blue Mirror	Scratch-Resistant	Blue Mirror	11331	**4MRR4**
Virtua™ AP					
B	Clear	Scratch-Resistant	Clear	11819	**6TKF0**
	Clear	Antifog	Clear	11818	**6TKE9**
	Gray	Scratch-Resistant	Gray	11815	**6TKE6**
	Light Blue	Scratch-Resistant	Light Blue	11816	**6TKE7**
	Amber	Scratch-Resistant	Amber	11817	**6TKE8**
	Indoor/Outdoor	Scratch-Resistant	Clear	11847	**6TKF1**
Virtua™ V4					
C	Clear	Scratch-Resistant	Black/Gray	11670	**1VJZ3**
	Clear	Antifog	Black/Gray	11672	**1VJZ5**
	Gray	Scratch-Resistant	Black/Gray	11671	**1VJZ4**
	Indoor/Outdoor	Scratch-Resistant	Black/Gray	11674	**1VJZ6**
Virtua™ CCS with Foam Gasket					
D	Clear	Antifog	Blue	11872	**46F390**
	Gray	Antifog	Gray	11873	**46F391**
	Indoor/Outdoor Mirror	Antifog	Blue	11874	**46F392**
SecureFit™					
E	Clear	Scratch-Resistant	White	SF201AS	**46F396**
	Clear	Antifog	White	SF201AF	**46F393**
	Gray	Scratch-Resistant	Gray	SF202AS	**46F397**
	Gray	Antifog	Gray	SF202AF	**46F394**
	Amber	Scratch-Resistant	Amber	SF203AS	**46F398**
	Amber	Antifog	Amber	SF203AF	**46F395**
F	Clear	Antifog	Black/Neon	SF401AF	**20KL03**
	Clear	Antifog	Red/Gray	1334244	**475M59**
	Clear	Antifog	Blue/Gray	1334245	**475M60**
	Gray	Antifog	Black/Neon	SF402AF	**20KL04**
	Gray	Antifog	Blue/Gray	1334246	**475M61**
	Gray	Antifog	Blue/Gray	1334249	**475M64**
	Amber	Antifog	Black/Yellow	1334250	**475M65**
	Brown	Antifog	Black/Brown	1334251	**475M66**
	Orange	Antifog	Black/Brown	1334252	**475M67**

Key	Lens Color	Lens Coating	Temple Color	Mfr. Model	Item No.
SecureFit™ with Removable Foam-Lined Gasket					
F	Clear	Antifog	Blue/Gray	1334247	**475M62**
	Clear	Antifog	Black	SF401AF-FM	**52JH70**
	Indoor/Outdoor	Scratch-Resistant	Black	SF410AS-FM	**52JH72**
	Gray	Antifog	Blue/Gray	1334248	**475M63**
	Gray	Antifog	Black	SF402AF-FM	**52JH73**
Half-Frame					
SecureFit™					
G	Clear	Antifog	Gray	SF601RAS	**406W29**
	Clear	Antifog	Gray	SF601SGAF	**54DF76**
	Gray	Antifog	Gray	SF602RAS	**406W30**
	Gray	Antifog	Gray	SF611AS	**406W43**
	Gray	Antifog	Gray	SF602SGAF	**54DF77**
	Amber	Antifog	Gray	SF603SGAF	**406W31**
	Gray	Antifog	Gray	SF607SGAF	**406W33**
	Low IR	Antifog	Gray	SF617AS	**406W34**
	IR 3.0	Antifog	Gray	SF630AS	**406W35**
	IR 5.0	Antifog	Gray	SF650AS	**406W36**
	Photochromic	Antifog	Gray	SF613AS	**406W44**
SecureFit™ with Removable Foam-Lined Gasket					
G	Gray	Antifog	Gray	SF602SGAF-FM	**406W32**
	Clear	Antifog	Gray	SF601SGAF-FM	**54DF78**
BX™					
H	Clear	Antifog, Scratch-Resistant	Silver and Black	11380	**5PA80**
	Gray	Antifog, Scratch-Resistant	Silver and Black	11381	**5PA81**
Metaliks™					
I	Clear	Antifog	Black	15170	**4DY73**
	Gray	Antifog	Black	15171	**4DY74**
	Indoor/Outdoor	Scratch-Resistant	Black	15172	**3NTY5**
Privo™					
J	Clear	Antifog	Black/Orange	12261	**2LUV7**
	Amber	Antifog	Black	12263	**2LUV8**
	Indoor/Outdoor	Antifog	Black	12264	**2LUV9**



No. 29XT49



No. 23Y612



No. 45CR30



No. 23Y594

Safety Glasses

- Meet ANSI Z87.1-2015
- 99.9% UV light protection

Intruder—Lightweight, frameless protection with an integrated nosepiece that delivers a good fit for most facial sizes.

Itek—Feature a soft nosepiece for comfort. Curved lens provides excellent side protection. Rubber temple tips for all-day comfort.
- Meet CAN/CSA Z94.3-2007

EverLite—The H2MAX anti-fog coating helps withstand repeated cleaning without losing adhesion and ensures maximum clarity in extreme temperatures and humidity. The soft nosepiece delivers a snug fit.

Highlander Plus—Extended sideshield design provides additional protection. Indirect vented foam helps reduce fogging. Includes adjustable strap with quick release.
- Meet CSA Z94.3-07

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Intruder				
Gray	Scratch-Resistant	Gray	S4120S	**29XT49**
Clear	Scratch-Resistant	Clear	S4110S	**34WR27**
Itek				
Clear	Scratch-Resistant	Clear	S5810S	**23Y604**
Clear	Antifog, Anti-Static, Scratch-Resistant	Clear	S5810ST	**23Y605**
Gray	Scratch-Resistant	Gray	S5820S	**23Y606**
Gray	Antifog, Anti-Static, Scratch-Resistant	Gray	S5820ST	**23Y607**
Blue	Scratch-Resistant	Frosted Light Blue	S5860S	**23Y609**
Indoor/Outdoor	Scratch-Resistant	Indoor/Outdoor	S5880S	**23Y612**
Half-Frame				
Ever-Lite				
Clear	Antifog, Anti-Static, Scratch-Resistant	Black	SB8610DT	**45CR28**
Gray	Antifog, Anti-Static, Scratch-Resistant	Black	SB8620DT	**45CR29**
Gray	Scratch-Resistant	Black	SB8623D	**45CR31**
Indoor/Outdoor Mirror	Antifog, Anti-Static, Scratch-Resistant	Black	SB8680DT	**45CR30**
Full-Frame				
Highlander Plus				
Clear	Antifog, Anti-Static, Scratch-Resistant	Black	SBG5010DT	**23Y594**
Gray	Antifog, Anti-Static, Scratch-Resistant	Black	SBG5020DT	**23Y595**
Indoor/Outdoor	Antifog, Anti-Static, Scratch-Resistant	Black	SBG5080DT	**23Y597**

Find Eyewear Accessories on page 1665.

Safety Glasses

DEWALT

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Distortion-free, impact-resistant polycarbonate lenses.

Protector™—Lightweight glasses with rubber-tipped temples and comfortable design.

Contractor Pro®—Lightweight design with soft rubber nosepiece and rubber-tipped temples.

Radius™—10-base curved lens design provides maximum eye coverage and protection.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Protector™				
Clear	Scratch-Resistant	Clear/Yellow	DPG54-1D	3UYG3
Clear	Antifog, Scratch-Resistant	Clear/Yellow	DPG54-11D	3UYG4
Smoke	Scratch-Resistant	Clear/Yellow	DPG54-2D	3UYG5
Indoor/Outdoor		Clear/Yellow	DPG54-9D	3UYG6
Contractor Pro®				
Clear	Scratch-Resistant	Clear	DPG52-1	3NUF4
Smoke		Smoke/Yellow	DPG52-2	3NUF6
Indoor/Outdoor		Clear/Yellow	DPG52-9	3NUF8
Light Blue		Light Blue/Yellow	DPG52-B	3NUF9
Clear	Antifog, Scratch-Resistant	Clear/Yellow	DPG52-11	3NUF5
Silver Mirror	Scratch-Resistant	Smoke	DPG52-6	3NUF7
Full-Frame				
Radius™				
Clear	Scratch-Resistant	Black	DPG51-1	3NUN3
Smoke		Black	DPG51-2	3NUN4
Indoor/Outdoor		Black	DPG51-9	3NUN5
Silver Mirror		Black	DPG51-6	3NUP6


No. 3NUN4


No. 3NUF6


No. 3UYG4

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Mirage™				
Clear	Scratch-Resistant	Clear	MR0110ID	6XKD1
Clear	Antifog, Scratch-Resistant	Clear	MR01111ID	6XKD2
Smoke	Scratch-Resistant	Smoke	MR0120ID	6XKD3
Smoke	Antifog, Scratch-Resistant	Smoke	MR0121ID	6XKD4
Amber	Scratch-Resistant	Amber	MR0140ID	6XKD5
Light Blue		Frosted Light Blue	MR01B0ID	6XKD6
Silver Mirror		Silver Mirror	MR0160ID	6XKD7
Indoor/Outdoor		Indoor/Outdoor	MR0190ID	6XKD8
Indoor/Outdoor	Antifog, Scratch-Resistant	Indoor/Outdoor	MR0191ID	6XKD9
Rainbow Mirror	Scratch-Resistant	Rainbow	MR01R0ID	6XKE0
Rad-Sequel™				
Clear	Scratch-Resistant	Clear	RS1-10	6XKF2
Clear	Antifog, Scratch-Resistant	Clear	RS1-11	6XKF3
Smoke	Scratch-Resistant	Smoke	RS1-20	6XKF4
Smoke	Antifog, Scratch-Resistant	Smoke	RS1-21	6XKF5
Silver Mirror	Scratch-Resistant	Silver Mirror	RS1-60	6XKF6
Blue Mirror		Blue Mirror	RS1-70	6XKF7
Indoor/Outdoor		Indoor/Outdoor	RS1-90	6XKF8
Light Blue		Light Blue	RS1-B	6XKF9


No. 6XKD8


No. 6XKF4

Safety Glasses

RADIANS

- Meet ANSI Z87.1
- 99.9% UVA and UVB protection

Mirage™—Sleek styling allows a comfortable perfect fit for both men and women and helps ensure worker acceptance. Provide a near perfect orbital seal with the economical dual-wraparound frame with 9.75 base lens. Glasses are extremely light, weighing less than 1 oz.

Rad-Sequel™—Lightweight design and feature a soft rubber nosepiece and rubber-tipped temples for a secure and comfortable fit.

Lens Color	Lens Coating	Mfr. Model	BLACK FRAME Item No.	GRAY FRAME Item No.
Half-Frame				
Dagr				
Smoke	Scratch-Resistant	DAGR	458P96	458P90
Smoke	Antifog, Scratch-Resistant	DAGR-AF	458P98	458P92
Clear	Scratch-Resistant	DAGR	458P94	—
Clear	Antifog, Scratch-Resistant	DAGR-AF	458P95	458P89
Copper	Scratch-Resistant	DAGR	458P84	—
Silver Mirror		DAGR	458P85	—
Yellow		DAGR	458P86	—
Indoor/Outdoor		DAGR	458P99	458P93
Indoor/Outdoor	Antifog, Scratch-Resistant	DAGR-AF	458R01	—
Dagr Foam Lined				
Smoke	Scratch-Resistant	DAGR	42DC06	—
Clear		DAGR	—	42DC11
Blue		DAGR	42DC10	—
Gray		DAGR	—	42DC12
Indoor/Outdoor		DAGR	42DC09	—
Dagr with Polarized Lenses				
Smoke	Scratch-Resistant	DAGR-PZ	458P97	458P91
Dagr Foam Lined with Polarized Lenses				
Smoke	Scratch-Resistant	DAGR-PZ	42DA69	—
Full-Frame				
Baldr				
Smoke	Scratch-Resistant	BALDR	458P41	52VY71
Smoke	Antifog, Scratch-Resistant	BALDR-AF	458P42	458P37
Copper	Scratch-Resistant	BALDR	458P31	—
Silver Mirror		BALDR	458P32	—
Yellow		BALDR	458P33	—
Clear	Antifog, Scratch-Resistant	BALDR-AF	458P40	458P36
Clear	Scratch-Resistant	BALDR	458P39	52VY70
Clear	Antifog, Scratch-Resistant	BALDR- AF	52VY66	—
Indoor/Outdoor	Scratch-Resistant	BALDR	458P34	458P38
Indoor/Outdoor	Antifog, Scratch-Resistant	BALDR-AF	458P35	—
Baldr with Polarized Lenses				
Smoke	Scratch-Resistant	BALDR-PZ	52VY68	—
Baldr Foam Gasket Insert				
—		BALDR-FGI	52VY99	—
Odin				
Smoke	Scratch-Resistant	ODIN	458P71	458P65
Smoke	Antifog, Scratch-Resistant	ODIN-AF	—	458P66
Clear	Scratch-Resistant	ODIN	458P70	458P63
Clear	Antifog, Scratch-Resistant	ODIN-AF	—	458P64
Copper	Scratch-Resistant	ODIN	458P57	—
Blue Mirror		ODIN	458P62	—
Silver Mirror		ODIN	458P72	—
Yellow		ODIN	52VY78	—
Indoor/Outdoor		ODIN	458P61	458P67
Indoor/Outdoor		ODIN	458P73	—
Indoor/Outdoor	Antifog, Scratch-Resistant	ODIN-AF	458P74	—
Indoor/Outdoor		ODIN-AF	52VY79	—


Dagr Foam Lined
No. 42DC12


Baldr
No. 458P31


Odin Foam Lined
No. 42DC46

Skullerz® Safety Glasses

- Meet ANSI Z87.1+
- Meet CSA Z94.3
- Meet MIL-PRF 32432 impact requirements
- 99.9% UV protection

Models with anti-fog protection feature Fog-Off™ technology that won't wear off or wash off. Glasses having polarized lenses help to reduce glare.

Dagr—Feature sleek blade frame with co-injection rubber temples and a non-slip rubber nosepiece for a more comfortable fit.

Baldr—The large frame design allows for maximum coverage and glasses have co-injection rubber temples. Models with a foam gasket insert help to protect eyes by reducing debris entry.

Odin—Full-frame design with co-injection rubber temples and a comfortable fitting non-slip rubber nosepiece. Glasses having a foam gasket insert can protect eyes by reducing debris entry.

Lens Color	Lens Coating	Mfr. Model	BLACK FRAME Item No.	GRAY FRAME Item No.
Odin with Polarized Lenses				
Smoke	Scratch-Resistant	ODIN-PZ	458P59	—
Copper		ODIN-PZ	458P58	—
Odin Foam Lined				
Smoke	Scratch-Resistant	ODIN	42DC61	42DC55
Clear		ODIN	42DC46	42DC54
Clear	Antifog, Scratch-Resistant	ODIN-AF	42DC63	—
Gray	Scratch-Resistant	ODIN	42DC49	—
Gray	Antifog, Scratch-Resistant	ODIN-AF	42DC64	—
Silver Mirror	Scratch-Resistant	ODIN	42DC50	—
Blue Mirror		ODIN	42DC53	—
Odin Foam Lined with Polarized Lenses				
Smoke	Scratch-Resistant	ODIN-PZ	42DA74	—
Odin Foam Gasket Insert				
—		ODIN-FGI	52VZ01	—



A.
No. 20V733



C.
No. 45NA37



B.
No. 20V736



D.
No. 20V725



F.
No. 49YV86



E.
No. 45NA50



G.
No. 20V729



H.
No. 20V746

Safety Glasses

- Meet ANSI Z87.1-2010
- 99.99% UV protection

Select models feature permanent Platinum® coating on both sides of the lens to offer high resistance to scratching and aggressive chemicals and help delay fogging.

A. Prism—Durable nonconductive polycarbonate frame, excellent coverage, upper brow protection, comfortable straight temples, and sport-style design.

B. Rush—Wraparound lightweight nonconductive frame and premium optical quality. Design includes upper brow protection, nonslip temples, and adjustable nonslip bridge with silicone nosepiece.

C. Rush+—Ultra-sporty design with a nonslip adjustable bridge and flexible co-injected temples to customize fit. Platinum coating.

D. Contour—Ultra-lightweight half-frame provides panoramic view. Nonslip temple tips, rubber nose pads, and reinforced bridge. Antistatic, stylish design, premium optics.

E. Silium+—Ultra-lightweight for comfort in extended wear, with a nonslip adjustable bridge and straight, highly flexible temples. Platinum coating.

F. Baxter—Highly wrap-around frame for total comfort. Waterproof foam and special strap attachment system offer effective protection against liquid and solid spray, and from dust. Platinum coating.

G. Lowrider—High-contour, close fitting design with rubber temples for a comfortable and nonslip fit. No. 20V730 has high-impact polarized lenses that provide true color definition while fighting harsh glare.

H. Tracker Sealed Eyewear and RX Holder—A rubberized eye seal keeps out dust and other fine particles, and the adjustable head strap assures a snug fit and optimal protection. Each accept a Prescription Insert Holder.

Key	Lens Color	Lens Coating	Frame Color	Includes*	Mfr. Model	Item No.
Frameless						
Prism						
A	Clear	Antifog, Scratch-Resistant	Black	AARC	40057	**20V731**
	Smoke		Black	AARC	40058	**20V732**
	Silver Mirror	Scratch-Resistant	Black	AARC	40059	**20V733**
Rush						
B	Clear	Antifog, Scratch-Resistant	Clear	AARC	40070	**20V734**
	Smoke		Smoke	AARC	40071	**20V735**
	Twilight		Twilight	AARC	40072	**20V736**
Rush+						
C	Clear	Antifog, Scratch-Resistant	Black/Red	MCP	41080	**45NA37**
	Smoke		Black/Gray	MCP	40208	**45NA38**
	Twilight		Black/Gray	MCP	40225	**45NA39**
	Clear		Yellow/Black	MCP	40243	**49YV76**
	Smoke		Yellow/Black	MCP	40244	**49YV77**
Half-Frame						
Contour						
D	Clear	Antifog, Scratch-Resistant	Dark Gun Metal Gray	MCP, AARC	40044	**20V723**
	Smoke		Dark Gun Metal Gray	MCP, AARC	40045	**20V724**
	Yellow		Dark Gun Metal Gray	MCP, AARC	40046	**20V725**
	ESP	Scratch-Resistant	Dark Gun Metal Gray	MCP, AARC	40047	**20V726**
Silium+						
E	Clear	Antifog, Scratch-Resistant	Black/Gray	MCP	40237	**45NA49**
	Smoke		Black/Gray	MCP	40238	**45NA50**
	CSP		Black/Gray	MCP	40239	**45NA51**
Full-Frame						
Baxter						
F	Clear	Antifog, Scratch-Resistant	Black, Blue	MCP, ICS	40276	**49YV86**
	Smoke		Black, Blue	MCP, ICS	40277	**49YV87**
	CSP		Black, Blue	MCP, ICS	40278	**49YV88**
Lowrider						
G	Smoke	Antifog, Scratch-Resistant	Black	MCP, AARC	40052	**20V729**
	Blue Mirror	Scratch-Resistant	Black	MCP, AARC	40156	**22FD20**
Lowrider with Polarized Lens						
G	Gray	Scratch-Resistant	Shiny Black	MCP, AARC	40053	**20V730**
Tracker (Sealed Safety Glasses)						
H	Clear	Antifog, Scratch-Resistant	Black/Gray	MCP, REAS	40085	**20V746**
	Smoke		Black/Gray	MCP, REAS	40086	**20V747**
	Yellow		Black/Gray	MCP, REAS	40087	**20V748**
	Twilight		Black/Gray	MCP, REAS	40088	**20V749**
	Shade 5.0	Scratch-Resistant	Black/Gray	MCP, REAS	40089	**20V840**
Tracker (Sealed Safety Glasses) RX Prescription Insert Holder						
H	—		Translucent	—	40090	**20V841**

**** MCP Microfiber cleaning pouch, AARC Adjustable removable retainer cord, ICS Interchangable cord and strap, REAS Removable Elastic Adjustable Strap***



A.
No. 33UD48



B.
No. 25AX62



C.
No. 460X45



D.
No. 5RXW5



E.
No. 5RXV8



F.
No. 4NXZ7

Safety Glasses

- Meet ANSI/ISEA Z87.1-2015
- Meet Ballistic Military MCEPS GL-PD 10-12
- 99.9% UV protection

Feature advanced lens and frame technologies for greater style and comfort. Copper lens color is best suited for driving applications. Select models have military-grade Vapor Shield™ antifog lens technology that can resist condensation, fog, and haze even under extreme temperatures and conditions. Glasses with TPR nose pads and temple tips prevent slipping and help keep glasses in place.

A. Delano G2—Stylish, eyewear with a large viewing area features flexible, soft rubber temples for added comfort.

B. Zorge G2—Durable, TR90/nylon frame with soft, rubber temples for comfort.

C. Caraz —Extra-lightweight wraparound frame switches easily between glasses and goggles. A removable EVA foam gasket is attached to the frame to help keep foreign particles away from the eyes. Models featuring polarized lenses can reduce glare in bright light conditions.

D. Dakura—Flexible wraparound frame and soft temples.

E. Kazbek—Flexible, soft-touch nylon wraparound frame. Edge-Flex temples and TPR nose pads. Wide fit glasses feature frames with an additional 22mm width at the temple. Multi-Fit models have an adjustable nosepiece for a more comfortable fit on a variety of facial structures.

F. Reclus—Durable and flexible TR90/nylon frame with soft TPR nose pads and temple tips for greater comfort and durability.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.	
Frameless						
Delano G2						
A	Clear	Scratch-Resistant	Black	SD111-G2	**33UD46**	
	Gray	Antireflective	Black	SD111AR-G2	**33UD47**	
	Smoke	Scratch-Resistant	Black	SD116-G2	**33UD48**	
Half-Frame						
Zorge G2						
B	Clear	Scratch-Resistant	Black	DZ111-G2	**25AX59**	
	Indoor/Outdoor	Antireflective, Scratch-Resistant	Black	DZ111AR-G2	**25AX60**	
	Yellow	Scratch-Resistant	Black	DZ112-G2	**25AX61**	
	Light Blue		Black	DZ113-G2	**25AX62**	
	Amber		Black	DZ114-G2	**33HY58**	
	Smoke		Black	DZ116-G2	**25AX63**	
Zorge G2 with Vapor Shield Military-Grade Antifog Lens Technology						
B	Clear	Antifog, Scratch-Resistant	Black	DZ111VS-G2	**38NH49**	
	Yellow		Black	DZ112VS-G2	**38NH50**	
	Light Blue		Black	DZ113VS-G2	**38NH51**	
	Smoke		Black	DZ116VS-G2	**38NH52**	
Full-Frame						
Caraz						
C	Smoke	Scratch-Resistant	Camouflage	HZ116CF	**460X45**	
	Smoke		Black	HZ136	**460X49**	
	Smoke		Black	HZ116-P1	**460X51**	
	Smoke		White	HZ146-P2	**460X52**	
Caraz with Polarized Lens						
C	Smoke	Scratch-Resistant	Camouflage	THZ216CF	**460X42**	
Dakura						
D	Clear	Scratch-Resistant	Black	SW111	**5RXW5**	
	Clear	Antireflective, Scratch-Resistant	Black	SW111AR	**5RXW7**	
	Yellow	Scratch-Resistant	Black	SW112	**5RXW8**	
	Amber		Black	SW114	**5RXW9**	
	Copper		Black	SW115	**5RXX0**	
	Smoke		Black	SW116	**5RXX1**	
	Blue Mirror		Black	SW118	**5RXX4**	
	Rose Mirror		Black	SW119	**5RXX5**	
	Aqua Precision Red Mirror		Black	SWAP119	**5RXY0**	
	IR 3.0		Black	SW11-IR3	**5RXX6**	
	IR 5.0		Black	SW11-IR5	**5RXX7**	

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.	
Dakura with Vapor Shield Military-Grade Antifog Lens Technology						
D	Clear	Antifog, Scratch-Resistant	Black	SW111VS	**38Y431**	
	Yellow		Black	SW112VS	**31XX36**	
	Smoke		Black	SW116VS	**38Y432**	
Dakura with Gasket and Vapor Shield Military-Grade Antifog Lens Technology						
D	Clear	Antifog, Scratch-Resistant	Black	GSW111VS	**25AX53**	
	Smoke		Black	GSW116VS	**25AX54**	
Kazbek						
E	Smoke	Scratch-Resistant	Black/Silver	SK116	**5RXV6**	
	Smoke		Black	SK136	**460X48**	
	Blue Mirror		Black/Silver	SK118	**5RXV8**	
Kazbek XL (Wide Fit)						
E	Clear	Scratch-Resistant	Black	SK-XL111	**5RXW1**	
	Silver Mirror		Black	SK-XL117	**5RXW3**	
	Smoke		Black	SK-XL116	**5RXW2**	
Kazbek with Multi-Fit and Vapor Shield Military-Grade Antifog Lens Technology						
E	Clear	Antifog, Scratch-Resistant	Black	SK111VS-AFT	**25AX57**	
	Clear		Black	SK111-SP	**49WJ40**	*
	Smoke		Black	SK116VS-AFT	**25AX58**	
	Smoke		Black	SK116-SP	**49WJ41**	*
Kazbek with Gasket and Vapor Shield Military-Grade Antifog Lens Technology						
E	Clear	Antifog, Scratch-Resistant	Black	GSK111VS-AFT	**25AX55**	
	Smoke		Black	GSK116VS-AFT	**25AX56**	
Reclus						
F	Silver Mirror	Scratch-Resistant	Black	SR117	**4NYA1**	
	Copper		Black	SR115	**4NXZ8**	
	Blue Mirror		Black	SR118	**4NYA2**	
	Smoke		Black	SR116	**4NXZ9**	
	Gray	Antireflective, Scratch-Resistant	Black	SR111AR	**4NXZ7**	
	Smoke	Scratch-Resistant	Camouflage	SR116CF	**460X44**	
	Smoke		Black	SR136	**460X50**	
Reclus with Vapor Shield Antifog Technology						
F	Clear	Antifog, Scratch-Resistant	Black	SR111VS	**49WJ42**	
	Smoke		Black	SR116VS	**49WJ43**	

**** Includes removable temple arms and interchangeable strap.***



Condor V™



SL-A



Wasko™
No. D4791



Agitator™



ET-93



Nome™

Reader Safety Glasses

- No. J5449 meets ANSI Z87.1-2015; all others meet ANSI Z87.1-2010
- 99.9% UV protection

Built-in magnification helps you read without giving up protection.

Condor V™—Frameless wraparound bifocals have gel nose pad and adjustable spatula temples.

SL-A—Frameless wraparound design with non-adjustable temples.

Wasko™—Bifocals feature frameless wraparound design with soft rubber temple tips.

Agitator™—Half-frame style with straight-back flexible temples, built-in rubber nosepiece, and rubber temple tips. A lanyard cord is included.

ET-93—Wraparound half-frame design with adjustable temple.

Nome™—Half-frame wraparound bifocals have spatula temples.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
Condor V™				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Scratch-Resistant	Clear	**D4793**
SL-A				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Anti-Fog	Clear	**J5470**
Wasko™				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Scratch-Resistant	Clear	**D4791**
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Gray	Scratch-Resistant	Gray	**D4792**
Half-Frame				
Agitator™				
+1.50, +2.00, +2.50	Clear	Scratch-Resistant	Black	**J5449**
ET-93				
+1.50, +2.00, +2.50	Clear	Anti-Fog	Black	**J5471**
Nome™				
+1.50, +2.00, +2.50	Clear	Scratch-Resistant	Black	**D7967**



Bearkat®



Klondike®

Reader Safety Glasses

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Bearkat®—Single lens design with integral side shields for unobstructed views. Flexible temples with non-slip temple sleeves that are notched on the end to accept a clip-on breakaway cord.

Klondike®—Adjustable, 5-position ratchet action spatula temple for a more comfortable fit.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
Bearkat®				
+1.00, +1.50, +2.00, +2.50	Clear	Scratch-Resistant	Gray	**D7976**
+1.00, +1.50, +2.00, +2.50	Gray	Scratch-Resistant	Gray	**D7977**
Half-Frame				
Klondike®				
+1.00, +1.50, +2.00, +2.50	Clear	Scratch-Resistant	Black	**D7978**



No. D7982



No. D7984

Safety Reader Safety Glasses

- Meet ANSI Z87.1+2010
- 99.9% UV protection

V60 Nemesis™ Rx—Stylish nylon-framed eyewear has integrated diopters for vision assistance. With neck cord.
- No. D7982 meets CSA Z94.3

V60 30-06™ Rx Readers—Comfortable nylon frame and self-adjusting rubber nose pad. Dual reader No. D7984 provides magnification for looking up and down.

▶CHOOSE: Diopter	▶CHOOSE: Lens Color	Lens Coating	Frame Color	Item No.
V60 Nemesis™ Rx				
+1.50, +2.00, +2.50, +3.00, +1.00	Clear	Scratch-Resistant	Black	**D7982**
+1.50, +2.00, +2.50	Smoke	Scratch-Resistant	Black	**D7983**
V60 30-06™ Rx				
+1.50, +2.00, +2.50, +1.00, +3.00	Clear, Brown, Amber, IRUV Shade 5	Scratch-Resistant	Black	**H6198**
V60 30-06™ Rx Dual Readers (Top and Bottom)				
+1.50, +2.00, +2.50	Clear	Scratch-Resistant	Black	**D7984**



Honeywell UVEX

A900 Reader Safety Glasses

- Meet ANSI Z87.1-2003
- 99.9% UV protection

Eyewear offers stylish protection with distortion-free vision by precision placed magnification inserts. Soft, padded tips provide less temple fatigue, and the soft, nonslip nosebridge reduces slippage.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.50, +2.00, +2.50	Clear	Scratch-Resistant	Black	D7993
+1.50, +2.00, +2.50	Gray	Scratch-Resistant	Black	D7994



Honeywell UVEX

Genesis® Reader Safety Glasses

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Eyewear features soft, flexible nasal fingers that conform to the face and minimize slippage, plus padded temple tips and cushioned brow bar. With adjustable temple length and ratcheting lens inclination adjustment.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.00, +1.50, +2.00, +2.50, +3.00	Clear	Scratch-Resistant	Black	D7968



ELVEX DELTAPLUS PARTNER

Go-Specs™ Reader Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Readers have angle-adjustable temples for a comfortable fit. Flexible foam lining helps protect against dust.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.5, +2.0, +2.5	Clear	Antifog	Black	G5271
	Gray	Antifog	Black	G5272



Honeywell UVEX

Sealed and Reader Safety Glasses

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Contemporary design can be worn with detachable temples or with an adjustable headband for all-day comfort. Soft, flexible nasal pads and face cushioning for excellent fit. Suited for dirty, high-particulate work environments such as those where grinding, chipping, shaving and sanding occur. The hydrophilic/hydrophobic HydroShield® antifog coating technology on select items offers 90x longer-lasting fog-free performance than most other antifog products. No. D5296 offers increased magnification for reading, inspection and other fine-detail work.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Seismic® Sealed Safety Glasses				
Clear	Scratch-Resistant	Black	S0600	4UCG7
Clear		Blue	S0620	4UCH4
Clear	Antifog	Black	S0600X	4UCG8
Clear		Blue	S0620X	4UCH5
Clear	Antifog, Scratch-Resistant	Black	S0600D	4UCG9
Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0600HS	401Y47
Clear		Blue	S0620HS	401Y52
Amber	Antifog	Black	S0602X	4UCH2
Amber		Blue	S0622X	4UCH6
Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0602HS	401Y49
Espresso	Antifog	Black	S0601X	4UCH1
Espresso	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0601HS	401Y48
SCT-Reflect 50	Antifog	Black	S0604X	4UCH3
SCT-Reflect 50		Blue	S0624X	4UCH7
SCT-Gray		Black	S0605X	24C254
SCT-Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0605HS	401Y50
SCT-Low IR	Antifog	Black	S0609X	24C255
SCT-Low IR	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0609HS	401Y51

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Seismic® Sealed Diopter Safety Readers				
+1.50, +2.00, +2.50	Clear	Antifog	Black	D5296



EDGE SAFETY EYEWEAR

Reader Safety Glasses

- Meet ANSI Z87.1-2015
- Meet MCEPS GL-PD 10-12
- 99.9% UV protection

Safety eye protection has built-in magnifiers to boost clarity of vision for reading. Attractive, sleek wraparound frame helps eliminate side shield distortion. Durable, lightweight nylon temples offer a comfortable and secure fit.

Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Zorge with Polarized Lens				
+2.00	Gray	Scratch-Resistant	Black	12A781
Zorge				
+1.50	Clear	Scratch-Resistant	Black	38Y433
+2.00	Clear	Scratch-Resistant	Black	38Y434
+2.50	Clear	Scratch-Resistant	Black	38Y435



No. J5337



No. D7973



No. D7974

3M

Reader Safety Glasses

- Meet ANSI Z87.1-2010
- Meet CSA Z94.3-2007, except No. J5337
- 99.9% UV protection

SecureFit™—Lightweight bifocals' temples auto-adjust with 3M™ Pressure Diffusion Temple Technology for a secure, comfortable fit.

BX™—Multiple diopter strengths for reading, inspection, and detail work. Adjustable-length, contoured soft-tip temples; soft nosebridge; and 3 adjustable lens angles provide comfort without distorting vision.

Nuvo™—1-pc. lens with protective brow bar. Adjustable-length temples with soft temple tips and soft nosebridge.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
SecureFit™				
+1.50, +2.00, +2.50	Clear	Antifog	Clear	**J5337**
Half-Frame				
BX™				
+1.50, +2.00, +2.50	Clear	Antifog	Black/Gray	**D7972**
+1.50, +2.00, +2.50	Gray	Antifog	Black/Gray	**D7973**
Full-Frame				
Nuvo™				
+1.50, +2.00, +2.50	Clear	Antifog	Gray	**D7974**
+1.50, +2.00	Gray	Antifog	Gray	**D7038**



3M

SmartLens™ Transition Safety Glasses

- Meets ANSI Z87.1-2010
- 99.9% UV protection

Photochromic lens lightens and darkens with changing light conditions. Features spring-hinged magnesium alloy temples and adjustable nosebridge.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Clear	Scratch-Resistant	Black/Gray	13407-00000-5	**2NFC3**



No. 4MRR3



No. 1DPG2

3M

Light Vision™ Safety Glasses and Reader Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Eyewear features a permanently attached LED light on each temple that swivels for hands-free lighting. Batteries provide up to 50 hr. of continuous use. Includes lanyard and storage bag.

Light Vision™—No. 3NUK4 features soft rubber temples and nose pads for lasting comfort. No. 4MRR3 is designed for wear over most prescription glasses. Adjustable length temples and Secure-Grip™ temple tips for precise fit.

Light Vision™ 2—Features adjustable length temples to create a good fit; soft nosebridge provides comfort. Bifocal Readers No. D7975 comes in different magnifications; ideal for detail work.

- Meet CSA Z94.3

Lens Color	Lens Coating	Frame Color	Eyewear Frame Style	Item No.
Light Vision™ - Full-Frame				
Clear	Anti-Fog	Gray	Full-Frame	**3NUK4**
Light Vision™ OTG (Over-the-Glass) - Frameless				
Clear	Anti-Fog	Black	Frameless	**4MRR3**
Light Vision™ 2 - Half-Frame				
Clear	Anti-Fog	Gray	Half-Frame	**1DPG2**
▶CHOOSE: Diopter	**Lens Color**	**Lens Coating**	**Frame Color**	**Item No.**
Light Vision™ 2 Bifocal Readers				
+1.5, +2.0, +2.5	Clear	Anti-Fog	Gray	**D7975**



No. 45NA43

bollé SAFETY

Iri-s Series Reader Safety Glasses

- Meet ANSI Z87.1-2010
- 99.99% UV protection
- Antifog, scratch-resistant lens coating

Engineered to adapt to any face. B-Flex nose bridge is fully adjustable for height, depth, and width. Pivoting ergonomic temples let you adjust the enveloping frame to embrace the specific face shape. Platinum coating. Each includes an adjustable cord and microfiber cleaning pouch.

Lens Color	Frame Color	Diopter Strength	Mfr. Model	Item No.
Clear	Black	+1.50	40187	**45NA43**
Clear	Black	+2.00	40188	**45NA44**
Clear	Black	+2.50	40189	**45NA45**
Clear	Black	+3.00	40190	**45NA46**



Condor

Removable Shields

- 99.9% UV protection

Sideshields help protect your eyes from flying debris. Just slip on to most plano-style protective eyewear; clear color.

Description	Material	Item No.	Pairs Per Pkg.
Slip-On Sideshields	Plastic	**5AL29**	10
Conforming Slip-On Sideshields	Plastic	**3BE76**	1



GA GRAINGER APPROVED

Protective Eyewear Case

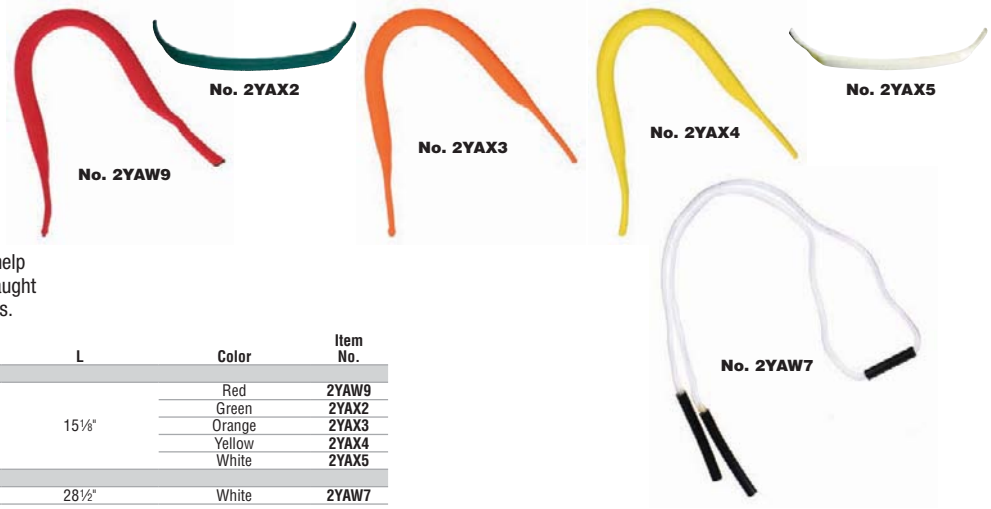
Protect eyewear when not in use.

Description	Dim.	Item No.
Nylon Zippered Eyewear Case	7⅜" H x 3⅞" W x 3⅛" D	**2YAX9**

GA GRAINGER APPROVED

Eyewear Retainers

Fit most brands of protective eyewear. Breakaway models help prevent injuries if cord gets caught in machinery or on other snags.



Description	L	Color	Item No.
Nonadjustable			
Polyester/Neoprene Foam	15⅛"	Red	**2YAW9**
		Green	**2YAX2**
		Orange	**2YAX3**
		Yellow	**2YAX4**
		White	**2YAX5**
Nonadjustable, Breakaway			
Polyester/Rubber Foam Ends	28½"	White	**2YAW7**

Protective Eyewear Sold Separately

GA GRAINGER APPROVED



Safety Glasses/PPE Dispensers

Dispensers accommodate packaged or nonpackaged protective eyewear and other PPE equipment. Wall mount or countertop use. Mounting hardware not included.

Safety Glasses Dispensing Trays—Double-hinged top lid provides easy access and seals out dust. Nos. 4GMR6 and 23Z418 have a foam bottom.

Safety Glasses Stack-Style Dispensers—All have an open top for quick filling and a lower flip-up dispensing door in front.

Safety Glasses Case with Door—Flip top hinged lid for filling helps keep dust out. Individual compartments store eyewear.

PPE Wire Dispensing Rack—Wire basket lets workers easily take and return safety glasses and other protective devices. Includes 3 labels: "Safety Glasses," "Hearing Protection," and blank label.

Holds	Material	H	W	D	Item No.
Safety Glasses Dispensing Trays					
Up to 8 Pairs	Acrylic	3¼"	9"	6¾"	**3TCA7**
Up to 6 Pairs	PETG	4⅝"	9"	6¾"	**4GMR6**
Up to 6 Pairs	Acrylic	5⅞"	9"	6"	**23Z418**
Up to 8 Pairs	PETG	6¼"	12"	9"	**3TCA8**
Up to 25 Pairs	Acrylic	12½"	18"	10½"	**3TCA6**
Up to 35 Pairs	Acrylic	12⅞"	18"	8"	**23Z419**
Safety Glasses Stack Style Dispensers					
Up to 20 Pairs	Acrylic	18"	8"	5½"	**23Z420**
Up to 20 Pairs	PETG	15¾"	8"	4"	**3TCA5**
Up to 25 Pairs	Acrylic	18"	8"	5½"	**23Z421**
Up to 25 Pairs	PETG	15¼"	8"	4"	**4GMR5**
Safety Glasses Case with Door					
Up to 12 Pairs	PETG	12"	14"	7¾"	**4GMR7**
Up to 20 Pairs	PETG	12"	15"	6¾"	**4GMR8**
PPE Wire Dispensing Rack					
Safety Glasses, Goggles, Earplugs, Ear Muffs	Steel	4½"	13"	9"	**6GLD0**



No. 44X059



No. 2AR69



No. 3NRJ9

Condor BAUSCH + LOMB Honeywell UVEX

Disposable Premoistened Towelette Stations

Silicone solution provides increased antifogging and antistatic protection. Nonsilicone solution is for use in work conditions that require product purity and/or prohibit silicone. These nonabrasive, individually wrapped towelettes are packaged in a corrugated dispenser box that provides workers easy access.

Solution Type	Lens Treatment Properties	Tissue Count	Tissue Size	Station Height	Station Width	Station Depth	Mfr. Model	Item No.
Condor®								
Nonsilicone	Anti-Fog, Anti-Static	100	5 in x 7 in	6 ¼ in	5 in	4 in	—	**44X059**
Bausch & Lomb® Sight Savers®								
Nonsilicone	Anti-Static	100	5 in x 8 in	8 in	5 ⅜ in	2 ⅜ in	8574GM	**2AR69**
Silicone	Anti-Fog	100	5 in x 8 in	8 in	2 ⅝ in	5 ⅜ in	8576	**3NRJ9**
Uvex Clear®								
Nonsilicone	Anti-Static	100	5 in x 8 ⅛ in	9 in	4 ½ in	2 ½ in	S468	**2AP01**
Uvex® Fog Eliminator Cloths								
Nonsilicone	Anti-Fog	100	6 ½ in x 6 ⅝ in	8 in	4 in	6 ¾ in	S477	**3NRJ8**



No. 44X058



No. 4T937

Condor BAUSCH + LOMB Honeywell UVEX

Disposable Lens Cleaning Towelette Stations

Silicone solutions provide increased antifogging and antistatic protection. Nonsilicone solutions are for use in work conditions that require product purity and/or prohibit silicone. Corrugated stations are countertop- or wall-mountable.

Description	Solution Type	Lens Treatment Properties	Tissue Count	Tissue Size	Station Height	Station Width	Station Depth	Mfr. Model	Item No.
Condor®									
Station with 6-oz. Sprayer	Nonsilicone	Anti-Fog, Anti-Static	600	4½" x 5"	6¾"	5⅝"	3⅛"	—	**44X058**
Station with 16-oz. Sprayer	Nonsilicone	Anti-Fog, Anti-Static	1200	5" x 6"	9"	10½"	3½"	—	**44X057**
Bausch & Lomb® FogShield XP®									
Station with 12-oz. Sprayer	Silicone	Anti-Fog, Anti-Static	1520	5" x 6½"	10"	7⅜"	5⅜"	8577	**4FE63**
12-oz. Silicone Solution Refill for No. 4FE63	Silicone	Anti-Fog	—	—	—	—	—	77	**4FE64**
Bausch & Lomb® Sight Savers®									
Station with 16-oz. Sprayer	Silicone	Anti-Fog, Anti-Static	1520	5" x 6½"	10"	7⅜"	5⅜"	8565	**4T937**
Station with 16-oz. Sprayer	Nonsilicone	Anti-Fog, Anti-Static	1520	5" x 6½"	9⅛"	7⅜"	5⅜"	8565GM	**2LBC7**



No. 4AG33



No. 5BB80

Honeywell UVEX BAUSCH + LOMB

Wall-Mount Lens Cleaning Stations

Silicone solution provides increased anti-fogging and antistatic protection. Nonsilicone solutions are for use in work conditions that require product purity and/or prohibit silicone. Mounting hardware included.

PLASTIC STATION

Uvex Clear®—Includes antifog, antiscratch cleaning solution; 2000 tissues; and 4½"H x 3½"W mirror. Includes adhesive strips. 12½"H x 22½"W x 3"D.

METAL STATIONS

Bausch & Lomb® Sight Savers®— Lockable cabinet with front access for filling. Include antifog, anti-static cleaning solution; pump; 1520 tissues; adhesive strips; and tissue waste compartment. 18½"H x 9⅛"W x 3⅝"D.

Description	Mfr. Model	Item No.
Plastic Station		
Uvex Clear®		
Complete Station with 16-oz. Nonsilicone Solution	S461	**4AG33**
1-gal. Nonsilicone Solution (without pump)	S464	**5AR46**
Refill Tissues, 4⅞H x 7⅞"W, Pkg. of 500	S462	**6AP81**
Metal Stations		
Bausch & Lomb® Sight Savers®		
Complete Station with 16-oz. Silicone Solution	8568P	**5BB80**
Complete Station with 16-oz. Nonsilicone Solution	8568GMP	**5BB81**
16-oz. Silicone Solution (without pump)	8569	**1AV39**
1-gal. Silicone Solution (without pump)	69	**4T933**
16-oz. Nonsilicone Solution (without pump)	8569GM	**5BB82**
1-gal. Non-Silicone Solution (without pump)	69GM	**5BB84**
Spray Pump For 16-oz. Solution Nos. 1AV39 and 5BB82	8572	**6AX56**
Refill Tissues, 4¾"H x 6½"W, Pkg. of 760	8571	**4AG49**

Condor

Goggles

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Offered with direct or indirect venting. Direct-vented goggles let air flow into the goggle from the work environment. Choose indirect-vented to limit or prevent liquid splash passing into the goggle.

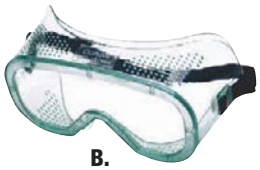
A. Condor®—Designed for general lab and shop applications. Can be worn with most half-mask respirators. Nos. 1VT66 to 1VT68 have perforated sides.

B. Platoon™ OTG (Over-the-Glass)—Soft vinyl body fits over most prescription eyewear. Translucent light-green frame reduces glare and side reflection. Nos. 4VCF4 and 4VCF5 have perforated sides.

C. Max Barron™—Foam-lined lenses with adjustable head strap. Black nylon frame.



A.
No. 1VT70



B.
No. 4VCF4



C.
No. 1FYZ3

Key	Venting	Lens Color	Lens Coating	Frame Color	Frame Design	Size	Strap Material	Item No.	
Condor®									
A	Direct	Clear	Scratch-Resistant	Clear	Traditional	Narrow	Elastic	**1VT67**	
	Direct	Clear			Traditional	Narrow	Elastic	**1VT66**	*
	Direct	Clear	Antifog, Scratch-Resistant		Traditional	Universal	Elastic	**1VT68**	
	Indirect	Clear	Scratch-Resistant		Traditional	Universal	Elastic	**1VT69**	
	Indirect	Clear	Antifog, Scratch-Resistant		Traditional	Universal	Elastic	**1VT70**	
Platoon™ OTG (Over-the-Glass)									
B	Direct	Clear	Uncoated	Translucent Green	Traditional	Universal	Elastic	**4VCF4**	
	Direct	Clear	Scratch-Resistant		Traditional	Universal	Elastic	**4VCF5**	
	Indirect	Clear	Uncoated		Traditional	Universal	Elastic	**4VCF6**	
	Indirect	Clear	Antifog, Scratch-Resistant		Traditional	Universal	Elastic	**4VCF7**	
Max Barron™									
C	Direct	Amber	Scratch-Resistant	Black	Aviator	Universal	Elastic	**4VCF2**	
	Direct	Clear	Antifog		Aviator	Universal	Elastic	**4VCF3**	
	Indirect	Clear	Scratch-Resistant		Aviator	Universal	Elastic	**1FYZ3**	
	Indirect	Gray			Aviator	Universal	Elastic	**1FYZ4**	

** Small size.*

Goggles

Honeywell UVEX

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3 (except Nos. 2CVG2, 2CVG3, 6T363, and 3RYJ9)
- 99.9% UV protection

Select goggles feature hydrophilic/hydrophobic HydroShield® antifog coating technology, which offers 90x longer-lasting fog-free performance than most other antifog products.

A. Classic™ OTG (Over-the-Glass)—Soft, flexible PVC. Durable construction. Fit over most prescription eyewear.

B. Strategy® OTG—Lightweight TPE body with snug fit. Fit over most eyewear to help provide impact protection.

C. Futura™ OTG—Offer distortion-free 180° field of vision. Fit over most prescription eyewear.

D. Flex Seal® OTG—Silicone construction with soft body seal withstands extreme temperatures. Pivoting clips allow positioning on a hard hat or above the ears. Low-profile design fits over most prescription eyewear.

E. Stealth®—Soft, flexible elastomer seal conforms to facial contours. Quick-adjust headband clips. Prescription insert holder sold separately.

F. Stealth® Reader Goggles—Low-profile, wraparound design with pivoting headband clip and adjustable-slide neoprene headband.

G. Stealth® OTG—Pivoting headband clip and wide adjustable-slide headband allow goggles to be used comfortably with hard hats and over most prescription eyewear.

H. Carbonvision™—Wide-vision goggles with a soft, flexible body and frame conform to your face for excellent fit.



A.



B.
No. 2CVG3



C.



D.



E.
No. 2CVG5



F.



G.
No. 4UCN6



H.
No. 24C251

Key	Venting	Lens Color	Lens Coating	Frame Color	Frame Design	Strap Material	Mfr. Model	Item No.
Classic™ OTG (Over-the-Glass)								
A	Indirect	Clear	Antifog	Clear	OTG	Neoprene	S350	**6T362**
Strategy® OTG								
B	Direct	Clear	Antifog	Gray	OTG	Fabric	S3800	**2CVG2**
	Indirect	Clear	Antifog	Gray	OTG	Neoprene	S3810	**2CVG3**
Futura™ OTG								
C	Indirect	Clear	Antifog	Clear	OTG	Neoprene	S345C	**6T363**
Flex Seal® OTG								
D	Indirect	Clear	Antifog	Navy	OTG	Neoprene	S3400X	**4FE58**
Flex Seal® with HydroShield® Lens Coating								
D	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Neoprene	S3400HS	**54EM94**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Fabric	S3405HS	**54EM95**
Stealth®								
E	Indirect	Clear	Scratch-Resistant	Gray	Wraparound	Neoprene, Rubber	S3960HS	**38TJ88**
	Indirect	Gray	Scratch-Resistant	Gray	Wraparound	Neoprene, Rubber	S3961HS	**38TJ89**
	Indirect	Clear	Antifog	Gray	Wraparound	Neoprene	S3960C	**3ZL19**
	Indirect	Clear	Antifog	Orange, Gray	Wraparound	Neoprene	S39630C	**2CVG5**
	Indirect	Gray	Antifog	Gray	Wraparound	Neoprene	S3961C	**3ZL20**
	Indirect	Clear	Antifog	Orange, Gray	Wraparound	Fabric	S39630CI	**2CVG6**
	Indirect	Clear	Antifog, Scratch-Resistant	Gray	Wraparound	Neoprene	S3960D	**2NYJ8**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Gray	Goggle	Fabric	S3960HSI	**55TA85**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Teal	Goggle	Neoprene	S39610HS	**55TA86**
	Indirect	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Teal	Goggle	Neoprene	S39611HS	**55TA87**
	Indirect	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Gray	Goggle	Neoprene	S3962HS	**55TA88**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Orange	Goggle	Neoprene	S39630HS	**55TA89**
Stealth® Replacement Lenses								
E	—	Clear	Antifog		—	—	S700HS	**38TJ90**
	—	Gray	Antifog		—	—	S701HS	**38TJ91**
	—	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant		—	—	S702HS	**55TA90**
Stealth® Prescription Insert Holder								
E	—	—		Silver	—	—	S3959	**2CVG4**
Stealth® Reader Goggles								
F	Indirect	Clear with +2.0 Diopter	Antifog	Blue	Wraparound	Neoprene	S3992X	**5DPT3**
Stealth® OTG								
G	Indirect	Clear	Antifog, Scratch-Resistant	Navy	OTG	Neoprene	S3970D	**4UCN6**
	Indirect	Clear	Antifog, Scratch-Resistant	Navy	OTG	Fabric	S3970DF	**4UCN7**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Neoprene	S3970HS	**54EM89**
	Indirect	Clear	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Fabric	S3970HSF	**54EM90**
	Indirect	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Neoprene	S3971HS	**54EM91**
	Indirect	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Navy	Goggle	Neoprene	S3972HS	**54EM92**
Carbonvision™								
H	Non-Vented	Clear	Antifog, Scratch-Resistant	Black	Wraparound	Neoprene	S1650D	**24C250**
	Non-Vented	Gray	Antifog, Scratch-Resistant	Black	Wraparound	Neoprene	S1651D	**24C251**
	Non-Vented	Clear	Antifog, Scratch-Resistant	Black	Wraparound	Fabric	S1650DF	**24C252**
	Non-Vented	Gray	Antifog, Scratch-Resistant	Black	Wraparound	Fabric	S1651DF	**24C253**



A.
No. 4YZ54



C.



B.
No. 3WLX6



D.
No. 4RC35



E.



F.



G.
No. 475M57

3M

Goggles

- Meet ANSI Z87.1-2010
- 99.9% UV protection

A. Centurion™ OTG (Over-the-Glass)—Wraparound wide-angle visibility; designed to fit over most prescription eyewear.
- Meet CSA Z94.3-2007

B. Lexa™ Splash GoggleGear™—Contoured, low-profile design.
- Meet CSA Z94.3-2007

C. and D. Fectoggles™—1-pc. lens offers a wide field of vision. Soft foam flange lines the perimeter of the lens.

E. Maxim™ 2 x 2—Dual-lens design for enhanced sightline and field of vision. Include interchangeable flexible temples and elastic strap.

F. and G. GoggleGear™ 500 and 2800 Series—Low-profile splash goggles feature long-lasting 3M™ Scotchgard™ antifog coating that helps increase eyewear performance and visibility in wet and steamy settings. With adjustable strap for comfortable fit.

Key	Lens Color	Lens Coating	Frame Color	Size	Venting	Strap Material	Mfr. Model	Item No.
Centurion™ OTG (Over-the-Glass)								
A	Clear	Uncoated	Clear	Universal	Direct	Elastic	40300	**4YZ54**
	Clear	Antifog	Clear	Universal	Direct	Elastic	40301	**4YZ55**
	Clear		Clear	Universal	Indirect	Neoprene	40305	**4YZ57**
	Clear	Uncoated	Clear	Universal	Indirect	Neoprene	40304	**3RYD8**
Lexa™ Splash GoggleGear™								
B	Clear	Antifog, Scratch-Resistant	Clear	Universal	Indirect	Elastic	16644	**3WLX6**
Fectoggles™ - Elastic Headband								
C	Clear	Antifog, Scratch-Resistant	Black	Universal	Direct	Elastic	16400	**4RC34**
Fectoggles™ - Adjustable Temple								
D	Clear	Antifog, Scratch-Resistant	Black	Universal	Direct	Elastic	16408	**4RC35**
Maxim™ 2 x 2								
E	Clear	Antifog	Black	Universal	Direct	Elastic	40686	**2TV53**
GoggleGear™ 500								
F	Clear	Antifog	Gray/Red	Universal	Indirect	Elastic	GG501SGAF	**48TK90**
GoggleGear™ 2800								
G	Clear	Antifog, Scratch-Resistant	Gray	Universal	Indirect	Elastic	GG2891-SGAF	**475M55**
	Clear	Antifog	Gray	Universal	Non-Vented	Elastic	GG2891S-SGAF	**475M56**
	Gray		Gray	Universal	Indirect	Elastic	GG2892-SGAF	**475M57**

DEWALT

Concealer™ Goggles

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Dual-injected rubber goggles have a soft, comfortable seal for extended wear. A built-in ventilation channel provides extra fog control and ventilation.



No. 3RYH4

Lens Color	Lens Coating	Venting	Strap Material	Mfr. Model	Item No.
Clear	Antifog, Scratch-Resistant	Indirect	Elastic	DPG82-11	**3RYH4**
Smoke				DPG82-21	**3RYH5**

Honeywell
UVEX



No. 4FE56

V-Maxx® OTG (Over-the-Glass) Goggles

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3

Wraparound design fits over most prescription eyewear. Adjustable headband. Peel-off covers protect lenses to extend goggle life.

Lens Color	Lens Coating	Frame Color	Venting	Strap Material	Mfr. Model	Item No.
V-Maxx® OTG (Over-the-Glass) Goggles						
Clear	Antifog	Clear	Direct	Elastic	11250800	**4FE56**
Lens Covers, Pkg. of 10						
—	—	—	—	—	11250860	**6WE81**

sellstrom.
Product that works.

OTG (Over-the-Glass) Goggles

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3; C-UL Listed
- 99.9% UV protection



No. 3NLW6

Goggles fit comfortably over most prescription eyewear. An adjustable headband assures proper fit.

882 Series—PVC-frame goggles provide outstanding chemical splash protection.

Industrial Odyssey® II—A soft, comfortable frame seals out liquids and dust without limiting peripheral vision. Sealed dual-pane lens.



No. 3RYG2

Lens Color	Lens Coating	Frame Color	Venting	Strap Material	Mfr. Model	Item No.
882 Series						
Clear	Uncoated	Green	Indirect	Elastic	S88200	**4FPL6**
Clear	Antifog	Green	Indirect	Elastic	S88213	**3NLW6**
Industrial Odyssey® II						
Clear	Antifog, Scratch-Resistant	Blue	Indirect	FR Cloth Strap	S80200	**3RYG2**

Goggles

bollé SAFETY

- Meet ANSI Z87.1-2010
- 99.99% UVA and UVB protection

Atom—Modular frame is compact, lightweight, and extremely comfortable. Over-the-glasses (OTG) dust goggles have a polycarbonate lens and a liquid overflow chute for enhanced protection. Large, adjustable elastic strap.
- Also meet CSA Z94.3-2007

Pilot—Coinjected frame with adjustable strap is designed for superior adaptability and comfort. OTG safety goggles offer excellent field of vision. No. 49YV90 CSP with Platinum® technology is good for activities that alternate between high and low lighting and in extreme hot- or cold-temperature environments.



No. 20V815



No. 49YV89



No. 49YV90

Lens Color	Lens Coating	Frame Color	Frame Material	Venting	Strap Material	Mfr. Model	Item No.
Atom							
Clear	Anti-Fog, Scratch-Resistant	Blue	TPR	Direct	Elastic	40092	**20V815**
Pilot							
Clear	Anti-Fog, Scratch-Resistant	Clear	Polycarbonate/ TPR	Direct	Nylon	40274	**49YV89**
CSP		Smoke		Direct	Nylon	40275	**49YV90**

About Gloves and Glove Sizing

ABOUT GLOVES

Safety gloves add a layer of protection against dirt, grime, abrasion, cuts, lacerations, and burns. Gloves generally end at the wrist or elbow and are sometimes used with sleeve protectors to extend protection up the arm. Specialized gloves can have a variety of coatings and linings to provide additional benefits, such as heat-, cut-, and needlestick-resistance.

GLOVE SIZING CHART

To determine glove size, measure the the distance around the palm of the hand at the knuckles. Look up the measurement (in inches) in the chart to determine the corresponding size.

Palm Size (in):	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
Size:	XS	S	M	L	XL	2XL
Other Sizes:	Women's			Men's		
				Universal		
				One Size Fits Most		
					Jumbo	



Disposable Glove Materials

Nitrile gloves provide high resistance to puncture, tearing, and abrasion, as well as good chemical resistance. They are generally thinner and more tactile than vinyl gloves.

Natural rubber-latex gloves provide high elasticity and dexterity, exceptional grip in wet and dry applications, and good resistance against rips and tears. They can cause allergic reactions in some people.

Neoprene gloves are resistant to chemical splash, provide a good grip when wet, and stay flexible across a range of temperatures. They are more comfortable than nitrile gloves and less comfortable than latex and polyisoprene.

Vinyl gloves are latex-free and are generally used for frequent, short-term use in common, everyday applications. They are less formfitting and provide less protection against chemicals, tears, and abrasion than latex gloves.

Polyisoprene gloves are formfitting and have high tactile sensitivity, making them a good choice for picking up small items. They are latex-free and resist tears, punctures, and abrasion.

Polyethylene gloves (sometimes called sandwich gloves) are made of thin, clear, lightweight plastic and are intended for frequent, short-term use.

Condor · MCR SAFETY · MICROFLEX® · Ansell · SHOWA

General Purpose Disposable Gloves

Disposable gloves create a barrier between your hands and objects you are handling to keep hands clean and protected and keep oils and dirt on your hands from transferring to the objects. They are throw away after each task to prevent cross contamination. Thinner gloves offer higher dexterity and better touch sensitivity, while thicker gloves are more durable. No. D1814 features a super-thin flocked lining that absorbs moisture to keep hands dry and comfortable.


No. J4950


No. D1805


No. J4957


No. D1859

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Powdered/ Powder-Free	Color	Brand	Item No.	Pkg. Qty.
Natural Rubber Latex							
General Purpose							
4.0 mil	Smooth	4.0	Powdered	Beige	Condor	**J4950**	100
4.0 mil	Smooth	4.0	Powdered	Green	Condor	**J4951**	100
Nitrile							
3.15 mil	Palm and Fingers	4.0	Powder-Free	Blue	Condor	**D1805**	100
3.5 mil	Fingers Only	—	Powder-Free	Fluorescent Green	Condor	**J4957**	100
3.9 mil	Fingers Only	4.0	Powdered	Blue	Microflex	**J5048**	100
3.9 mil	Fingers Only	4.0	Powdered	Blue	Microflex	**J5048**	90
4.0 mil	Fingers Only	4.0	Powder-Free	Corn Blue	Condor	**H4568**	100
4.5 mil	Palm and Fingers	4.0	Powder-Free	Light Blue	Condor	**D1807**	100
5.5 mil	Palm and Fingers	4.0	Powder-Free	Black	Condor	**H4565**	50
7.0 mil	Fully	4.0	Powder-Free	Blue	Condor	**J4869**	50
High Strength							
8.3 mil	Fully	2.5	Powder-Free	Green	Microflex	**D1814**	50
PVC							
General Purpose							
5.0 mil	Smooth	4.0	Powder-Free	Clear	Ansell	**D1859**	100
5.0 mil	Smooth	4.0	Powder-Free	Blue	Ansell	**D1861**	100
Vinyl							
2.7 mil	Smooth	4.0	Powdered	Blue	Condor	**H3927**	100
2.7 mil	Smooth	4.0	Powdered	Clear	Condor	**D1851**	100
2.7 mil	Smooth	4.0	Powder-Free	Blue	Condor	**H3928**	100
2.7 mil	Smooth	4.0	Powder-Free	Clear	Condor	**D1856**	100
2.8 mil	Smooth	4.0	Powder-Free	Blue	Microflex	**49AE63**	100
3.0 mil	Smooth	4.0	Powdered	Clear	Mcr Safety	**J2489**	1000
3.0 mil	Smooth	4.0	Powder-Free	Clear	Mcr Safety	**J2487**	1000
3.0 mil	Smooth	4.0	Powder-Free	Blue	Mcr Safety	**J2493**	1000
3.9 mil	Smooth	4.0	Powdered	Blue	Ansell	**J2444**	100
5.0 mil	Smooth	4.0	Powder-Free	Clear	Showa	**J2538**	100
5.0 mil	Smooth	4.0	Powder-Free	Green	Condor	**D1862**	100
6.0 mil	Smooth	4.0	Powder-Free	Clear	Mcr Safety	**J4964**	100


No. 49AE63


No. J2493

Scan. Order. Done.
Details on page A1.

Find more information about gloves and glove sizing on page 1669.



No. D1847



No. D1806



No. D8397



No. D1811



No. D1863

Food Contact-Rated Disposable Gloves

- Powder-Free

These single-use gloves are FDA-approved for use by food service workers, food handlers, or others who come into contact with food. They are thrown away after one use to help prevent cross contamination.

Palm Thickness	Finger Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Brand	Item No.	Pkg. Qty.
Natural Rubber Latex							
General Purpose							
4.5 mil	5.0 mil	Palm and Fingers	4.0	Beige	Condor	**D1847**	100
Nitrile							
Ergonomic							
4.0 mil	4.0 mil	Fingers Only	1.5	Blue	Showa	**D1806**	100
General Purpose							
3.9 mil	4.7 mil	Fully	4.0	Cobalt	Microflex	**D8397**	100
4.0 mil	4.0 mil	Smooth	1.5	Blue	Showa	**D1824**	100
Hazardous Splash Protection							
4.3 mil	5.0 mil	Fingers Only	4.0	Blue	Ansell	**D1809**	100
High Strength and Hazardous Splash Protection							
4.7 mil	5.0 mil	Smooth	4.0	Green	Ansell	**D1811**	100
Polyethylene							
General Purpose							
0.4 mil	0.4 mil	Fully	4.0	Clear	Mcr Safety	**D1863**	500
Vinyl							
2.7 mil	4.0 mil	Smooth	4.0	Clear	Condor	**D1856**	100
2.7 mil	5.0 mil	Smooth	4.0	Clear	Condor	**D1857**	100
2.8 mil	3.0 mil	Smooth	6.5	Clear	Ansell	**D1858**	100

Find more information about gloves and glove sizing on page 1669.



No. J4870



No. D1828



No. D8392

No. J2284

No. J2285



No. J4866

MICROFLEX® THE MOST TRUSTED NAME IN GLOVES®

Condor

Ansell

Medical-Grade Disposable Gloves

These gloves have exceptional tactile sensitivity and are worn to protect workers from biohazards and reduce the risk of contamination. They can be worn alone or as part of a two-glove system where gloves are doubled to provide additional protection against contamination. They have an Acceptable Quality Level (AQL) rating of 2.5 or lower, which indicates that these gloves are less likely to have pinholes and imperfections that can reduce durability and performance. Nos. D1841 and D1822 feature an aloe-coated inner surface to protect hands from drying and chapping.

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Sterile/Non-Sterile	Color	Length	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Nitrile									
2.4 mil	Fingers Only	—	Non-Sterile	Pink	9 ½ in	XS, S, M, L, XL	Micro-Touch Nitrile	**J5102**	100
3.15 mil	Palm and Fingers	1.5	Non-Sterile	Blue	9 ½ in	S, M, L, XL	Condor	**D1815**	100
3.5 mil	Fingers Only	1.5	Non-Sterile	Fluorescent Green	9 ½ in	S, M, L, XL, 2XL	Condor	**J4955**	100
3.5 mil	Fingers Only	1.5	Non-Sterile	Black	9 ½ in	S, M, L, XL, 2XL	Microflex	**D1817**	100
3.9 mil	Smooth	1.5	Non-Sterile	Blue	9 ½ in	XS, S, M, L, XL	Microflex	**D1816**	100
3.9 mil	Smooth	1.5	Non-Sterile	Green	9 ½ in	XS, S, M, L, XL	Microflex	**D1841**	100
4.0 mil	Fingers Only	—	Non-Sterile	Blue	11 ½ in	XS, S, M, L, XL	Ansell	**D1823**	100
5.1 mil	Fingers Only	1.5	Non-Sterile	Orange	10 ½ in	S, M, L, XL, 2XL	Microflex	**D1818**	100
5.1 mil	Smooth	1.5	Non-Sterile	Green	9 ½ in	S, M, L, XL, 2XL	Microflex	**D1822**	100
5.9 mil	Smooth	1.5	Non-Sterile	Green	11 ¾ in	S, M, L, XL	Microflex	**D1839**	50
6.7 mil	Smooth	1.5	Non-Sterile	Blue	9 ½ in	S, M, L, XL, 2XL	Microflex	**D1819**	50
7.8 mil	Smooth	1.5	Non-Sterile	Blue	11 ½ in	S, M, L, XL, 2XL	Microflex	**D1821**	50
7.0 mil	Smooth	1.5	Non-Sterile	Blue	12 in	S, M, L, XL, 2XL	Condor	**J4870**	50
Natural Rubber Latex									
4.7 mil	Fingers Only	1.5	Non-Sterile	Beige	9 ½ in	S, M, L, XL	Ansell	**D1828**	100
5.0 mil	Smooth	1.5	Non-Sterile	Beige	9 ½ in	S, M, L, XL	Condor	**D5744**	100
5.1 mil	Fingers Only	1.5	Non-Sterile	Beige	9 ½ in	XS, S, M, L, XL	Microflex	**D8392**	100
5.1 mil	Fingers Only	—	Non-Sterile	Beige	9 ½ in	XS, L, M, S, XL	Microflex	**F0646**	100
5.5 mil	Smooth	1.5	Non-Sterile	Beige	9 ½ in	XS, S, M, L, XL	Microflex	**D1832**	100
5.9 mil	Smooth	1.5	Non-Sterile	Pink	9 ½ in	XS, S, M, L	Microflex	**D9293**	100
6.3 mil	Fingers Only	1.5	Non-Sterile	Beige	9 ½ in	XS, S, M, L, XL	Microflex	**D1831**	100
9.8 mil	Fingers Only	1.5	Non-Sterile	Beige	12 in	S, M, L, XL	Microflex	**D1833**	50
9.8 mil	Smooth	1.5	Non-Sterile	Blue	11 ½ in	S, M, L, XL	Microflex	**D8391**	50
11.0 mil	Fingers Only	1.5	Non-Sterile	Blue	11 ½ in	S, M, L, XL	Microflex	**D1834**	50
Neoprene									
5.9 mil	Smooth	0.6	Sterile	Cream	11 ½ in	5½, 6, 6½, 7, 7½, 8, 8½, 9	Ansell	**J2284**	200
5.91 mil	Smooth	0.6	Non-Sterile	Cream	11 ½ in	5½, 6, 6½, 7, 7½, 8, 8½, 9	Ansell	**J2285**	200
Vinyl									
3.1 mil	Smooth	1.5	Non-Sterile	White	9 in	S, M, L, XL	Condor	**J4866**	100

Find more information about gloves and glove sizing on page 1669.



No. H3372



No. D1491

MICROFLEX® THE MOST TRUSTED NAME IN GLOVES®

Ansell

Cleanroom-Grade Disposable Gloves



No. H3485

These disposable gloves are used in cleanrooms and controlled environments. They are ISO- and FED STD 209E-rated and have been processed to kill microorganisms and eliminate contaminants to reduce the risk of contamination and infection. They are powder-free to reduce the risk of surface contamination and allergic reactions.

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Length	Brand	Item No.	Pkg. Qty.
Natural Rubber Latex							
5.1 mil	Fingers Only	1.5	Beige	11 ½ in	Microflex	**H3372**	1000
6.69 mil	Palm and Fingers	0.6	Beige	12 in	Ansell	**K2617**	200
6.69 mil	Palm and Fingers	1.5	Beige	16 in	Ansell	**K2618**	200
6.69 mil	Palm and Fingers	1.5	Beige	12 in	Ansell	**K2620**	200
7.1 mil	Palm and Fingers	1.5	Beige	24 in	Ansell	**K2619**	100
Neoprene							
3.94 mil	Fingers Only	0.6	Green	12 in	Ansell	**K2621**	200
3.94 mil	Fingers Only	0.6	Green	12 in	Ansell	**K2613**	1000
Nitrile							
3.9 mil	Smooth	2.5	White	12 in	Ansell	**D1491**	100
3.94 mil	Palm and Fingers	0.6	White	16 in	Ansell	**K2615**	1000
3.94 mil	Palm and Fingers	1.5	Green	12 in	Ansell	**K2616**	1000
4.3 mil	Fingers Only	1.5	Off-White	12 in	Ansell	**D1492**	100
4.33 mil	Fingers Only	1.5	White	12 in	Ansell	**K2614**	1000
Polyisoprene							
8.3 mil	Smooth	0.6	White	11 ½ in	Ansell	**H3485**	200



No. 5EME0

superiorglove

MCR SAFETY

Ansell

REMCO PRODUCTS

Liquid-Resistant Disposable Sleeves

Liquid-resistant disposable sleeves are made of materials and have seams sewn to resist water, fat, grease, and accidental chemical splash. They are used in food processing applications, when transferring liquids and solids, cleaning, or when working in pharmaceutical labs.

Sleeve Material	Sleeve Length	Thickness	Color	Brand	Pkg. Qty.	Item No.
Color-Coded for Food Processing						
Polyurethane	18 in	6.0 mil	Green	Top Dog	1	**279D86**
Polyurethane	18 in	6.0 mil	Blue	Top Dog	1	**279D87**
Polyurethane	18 in	6.0 mil	Red	Top Dog	1	**279D88**
Polyurethane	18 in	6.0 mil	White	Top Dog	1	**279D89**
Polyurethane	18 in	6.0 mil	Yellow	Top Dog	1	**279D90**
Polyurethane	21 in	6.0 mil	Blue	Top Dog	1	**279D92**
Polyurethane	21 in	6.0 mil	Green	Top Dog	1	**279D91**
Polyurethane	21 in	6.0 mil	Red	Top Dog	1	**279D93**
Polyurethane	21 in	6.0 mil	White	Top Dog	1	**279D94**
Polyurethane	21 in	6.0 mil	Yellow	Top Dog	1	**279D95**
General Purpose						
Polyethylene	16 in	0.68 mil	Blue	Superior Glove	100	**65FR04**
Polyethylene	18 in	1.25 mil	Blue	Condor	100	**32TL74**
Polyethylene	18 in	1.25 mil	Clear	Condor	100	**4XUA1**
Polyethylene	18 in	1.25 mil	White	Condor	100	**32TL73**
Vinyl	18 in	6.0 mil	Blue	Mcr Safety	12	**26H489**
Vinyl	18 in	8.0 mil	White	Ansell	1	**3TCD5**
Vinyl	18 in	8.0 mil	Blue	Ansell	1	**5EME0**
Vinyl	18 in	8.0 mil	Clear	Mcr Safety	12	**26H601**
Resists Non-Hazardous Liquids						
Vinyl	18 in	8.0 mil	Blue	Mcr Safety	12	**26H645**
Vinyl	18 in	8.0 mil	White	Mcr Safety	12	**26H646**



No. 32GV52

DuPont™ Tyvek® INTERNATIONAL ENVIRO GUARD Condor MCR SAFETY

Particulate-Resistant Disposable Sleeves

These disposable sleeves resist particulates such as dirt and dust, as well as light liquid splash and some aerosols. They are used for light-duty industrial work, cleaning, and pharmaceutical work.

Sleeve Material	Sleeve Length	Thickness	Color	Brand	Pkg. Qty.	Item No.
Resists Hazardous Particulates						
Tyvek(R) 400	18 in	5.9 mil	White	Dupont	200	**4T062**
Resists Non-Hazardous Particulates						
Bodylifter 95+(R)	18 in	12.0 mil	White	Bodyfilter 95+	200	**3HKJ4**
Microporous Fabric	18 in	15.0 mil	White	International Enviroguard	200	**6XMP0**
Microporous Film Laminate	18 in	9.7 mil	White	Condor	200	**32GV52**
Polypropylene	18 in	1.8 mil	Blue	Mcr Safety	200	**26J504**
Polypropylene	18 in	1.8 mil	White	Mcr Safety	200	**26J505**
Polypropylene	18 ½ in	9.0 mil	White	Condor	200	**26W805**
Polypropylene	18 ½ in	12.5 mil	White	Condor	200	**2KTT9**
ProShield(R) 60	18 in	10.0 mil	White	Dupont	200	**6LY63**



No. 24AF71

DuPont™ Tyvek® Ansell INTERNATIONAL ENVIRO GUARD

Cleanroom Particulate-Resistant Disposable Sleeves

Particulate-resistant disposable sleeves for cleanrooms and controlled environments provide a barrier that prevents microorganisms from passing through the sleeve. They are made of low-linting fabric to reduce the risk of lint contaminating the environment and are ISO- and FED STD 209E-rated for use in cleanrooms.

Sleeve Material	Sterile/ Non-Sterile	Sleeve Length	Thickness	Color	Brand	Pkg. Qty.	Item No.
ISO 4							
Tyvek(R) Isoclean(R)	Non-Sterile	18 in	5.0 mil	White	Dupont	100	**24AF71**
CleanTough	Non-Sterile	20 in	9.0 mil	White	Ansell	180	**575Y05**
Tyvek(R) Isoclean(R)	Sterile	18 in	5.0 mil	White	Dupont	100	**5WYL7**
CleanTough	Sterile	20 in	9.0 mil	White	Ansell	180	**575Y58**
ISO 5							
Microporous Fabric	Non-Sterile	18 in	15.0 mil	White	International Enviroguard	200	**30N490**
Tyvek(R) Isoclean(R)	Sterile	18 in	4.4 mil	White	Dupont	100	**29EU14**
GammaGuard(R) CE	Sterile	21 ½ in	15.0 mil	White	International Enviroguard	200	**30N517**
ISO 6							
Tyvek(R) Isoclean(R)	Non-Sterile	18 in	5.4 mil	White	Dupont	100	**24AF70**


No. G6631


No. D1641

Condor
Honeywell NORTH
Ansell

Electrostatic Dissipative (ESD) Gloves

ESD gloves are made of conductive fibers that prevent the buildup of static electricity that, when discharged, can damage sensitive electronic equipment. They are worn when assembling electrical components, performing lab work, and applying coatings to metal.

Cuff	Color	Size	Brand	Item No.	Pkg. Qty.
Nylon/Carbon Fiber Yarns					
Elastic Rubber Band	Gray	S, M, L, XL, 2XL	Condor®	**G6631**	12
Nylon/Copper Fiber Yarns					
Elastic Rubber Band	Beige/White	XS, S, M, L, XL, 2XL	Condor®	**G6632**	1
Nylon/Thunderon(R) Shell					
Rolled	Gray/White	XS, S, M, L, XL, 2XL	Honeywell North®	**D1641**	1
Nitrile					
Rolled	Gray	XS, M, L, L, S	Ansell	**F0634**	1



OccuNomix

Ring Protectors

Ring protectors are made of stretchy nylon/spandex-blend material to fit snuggly over rings and protect them from damage when performing general assembly and maintenance tasks.

Material	Color	Thickness	L	Item No.	Pkg. Qty.
Nylon/Spandex	Blue	3.0 mil	1 ½ in	**45KJ58**	12


No. 3PWG5


No. 3PLR7

ZETEX
KAREWEAR™

Finger Guards

Reusable fiinger guards protect fingers and thumbs from minor abrasion and heat while leaving the rest of the hand open for breathability, comfort, and dexterity. They are worn in small parts assembly, sewing, woodworking, and tasks that require handling small parts.

Material	Color	Size	Brand	Item No.	Pkg. Qty.
Heat Resistant Finger Cots					
Fiberglass	White	Universal	Zetex	**3PWG5**	12
Finger Guard					
Grain Leather	Beige	S	Karewear	**3PLR9**	10
Grain Leather	Beige	M	Karewear	**3PLR8**	10
Grain Leather	Beige	L	Karewear	**3PLR7**	10


No. G6132

Condor

Finger Cots

- 3 mil
- Length: 2¾"
- Rolled cuff

Latex finger cots are used to prevent contamination when handling small items. Dispensers have a hinged lid and can be wall-mounted or placed on a tabletop or workbench where workers need them.

Powdered—Designed for use where particulate contamination is not a concern. Excellent sensitivity.

Finger Cot Material	Thickness	Powdered/ Powder-Free	Color	Size	Brand	Item No.	Pkg. Qty.
Finger Cots							
Natural Rubber Latex	3.0 mil	Powdered	White	S, M, L	Condor	**G6132**	1440
Natural Rubber Latex	3.0 mil	Powder-Free	Beige		Condor	**G6133**	720

KRAFT TOOL CO.

General Purpose Finger Tape

General purpose finger tape protects fingers and thumbs from light abrasion and temporarily keep wounds clean. It is used when handling small parts, and when performing light tasks where hands become dirty or are at risk of light abrasion.


No. 8X171

No. 43Y569

Material	Color	W	L	Brand	Item No.
Cotton	White	1 in	165 ft	Kraft Tool	**43Y569**
Cotton/Latex	Green	1 in	90 ft	Guard-Tex	**8X171**

GA GRAINGER APPROVED

Glove Box Dispensers

Glove box dispensers keep glove boxes organized and make it easier for workers to take gloves. They can be wall-mounted or placed in areas where workers frequently use disposable gloves.


No. 6GKZ3


No. 3RZT1

Dispenser Layout	Material	Color	Dim.	Item No.
Horizontal				
Top Load				
1 Box	Enamel-Coated Steel Wire	White	4 in H x 11⅜ in W x 3½ in D	**6GKX9**
2 Compartments	PETG Plastic	Clear	7 in H x 13¼ in W x 4½ in D	**3RZT4**
3 Boxes	Enamel-Coated Steel Wire	White	8 in H x 16 in W x 4 in D	**6GKY2**
4 Boxes	Enamel-Coated Steel Wire	White	7¼ in H x 22 in W x 3½ in D	**6GKY4**
Horizontal or Vertical				
Left Load, Right Load, Top Load				
1 Box	Powder-Coated Steel	White	10 in H x 5½ in W x 3¾ in D	**6GKZ6**
2 Boxes	Powder-Coated Steel	White	10 in H x 12 in H x 3¾ in D	**6GKZ7**
2 Boxes	Powder-Coated Steel	White	20 in H x 5½ in W x 3¾ in D	**6GKZ0**
2 Boxes	Stainless Steel	Silver	20 in H x 5½ in W x 3¾ in D	**6GKZ2**
3 Boxes	Powder-Coated Steel	White	10 in H x 18 in W x 3¾ in D	**6GKZ8**
3 Boxes	Stainless Steel	Silver	30 in H x 5½ in W x 3¾ in D	**6GKZ3**
Vertical				
Front Load				
3 Boxes	PVC-Coated Steel	White	16½ in H x 14 in W x 7 in D	**6GKY8**
4 Boxes	PVC-Coated Steel	White	24½ in H x 14 in W x 7 in D	**6GKY9**
Left Load				
2 Boxes	Enamel-Coated Steel Wire	White	10½ in H x 11 in W x 4 in D	**6GKY1**
3 Boxes	Enamel-Coated Steel Wire	White	14 in H x 11 in W x 4 in D	**6GKY3**
4 Boxes	Enamel-Coated Steel Wire	White	10¾ in H x 22 in W x 3½ in D	**6GKY5**
Top Load				
1 Box	PETG Plastic	Clear	11⅛ in H x 6⅝ in W x 4 in D	**4DKT8**
1 Box	Stainless Steel	Silver	10 in H x 5½ in W x 3¾ in D	**6GKZ9**
2 Boxes	Acrylic Plastic	Clear	10⅛ in H x 10¾ in W x 3⅞ in D	**6GLA5**
2 Boxes	Stainless Steel	Silver	10 in H x 10½ in W x 3¾ in D	**6GLA0**
3 Boxes	PETG Plastic	Clear	16⅝ in H x 11⅛ in W x 4⅜ in D	**3RZT1**
3 Boxes	Stainless Steel	Silver	10 in H x 16 in W x 3¾ in D	**6GLA1**

Find more information about gloves and glove sizing on page 1669.


No. J4882


No. J4885

Latex and Latex Blend Gloves

Condor

- FDA approved gloves meet FDA regulations for food contact

Unsupported gloves provide excellent dexterity and tactile sensitivity. Select gloves are flock-lined to help keep hands comfortable and dry.

Length	Thickness	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.
FDA-Approved Latex							
12"	17.00 mil	Palm and Fingers	Unlined	Beaded	Blue	S, M, L, XL, 2XL	**J4886**
12"	17.00 mil	Palm and Fingers	Flock	Beaded	Yellow	S, M, L, XL, 2XL	**J4882**
12"	20.00 mil	Palm and Fingers	Unlined	Beaded	Natural	S, M, L, XL, 2XL	**J4884**
13"	29.00 mil	Palm and Fingers	Flock	Straight	Orange	7, 8, 9, 10, 11	**J4885**


No. H7125


No. H7542

Latex and Latex Blend Gloves

Ansell

- FDA approved gloves meet FDA regulations for food contact

Flexible materials make these gloves a comfortable chemical protection choice. Unsupported gloves allow excellent dexterity and tactile sensitivity. Supported gloves enhance strength, comfort, and durability. The flock lining in select gloves help keep hands dry and comfortable.

Marigold® Featherweight Plus—Suitable for protection against particulate radioactive contamination.

VersaTouch® 87-155—Good snag, puncture, abrasion, and cut resistance, plus excellent dexterity and elasticity.

VersaTouch® 88-356—Superior touch and tactile sensitivity plus high dexterity, with good resistance to snags, punctures, and abrasion.

VersaTouch® 62-401—100% cotton jersey liner and waterproof coating offer dexterity and pliability at low temperatures, plus insulation from heat or cold.

VersaTouch® 88-393/87-370—Tough general purpose gloves offer abrasion resistance and excellent grip in damp conditions.

Hy-Care®—Fully coated gloves offer great flexibility, dexterity, and durability, and stay flexible in cold temps. (to -25°F).

Marigold® Astroflex—Seamless liner with knitted elastic cuff for fit and comfort.

VersaTouch® 87-198—Excellent sensitivity and high tensile strength plus a textured surface for good wet/dry grip.

VersaTouch® 87-298—Good-gripping gloves with high tensile strength, excellent sensitivity, and snag/puncture/abrasion resistance.

Orange Heavyweight—Thickness enhances abrasion resistance while allowing tensile strength and sensitivity.

Omni®—Proprietary latex blend provides excellent resistance to snags, punctures, and abrasion.

Chemi-Pro®—Neoprene-over-natural rubber latex dipped gloves offer extra protection against physical hazards.

Technicians™—Lightweight, neoprene/natural rubber latex blend with midlevel dexterity and sensitivity.


No. D0512


No. D0516


No. D0521


No. D0518

Description	Length	Supported / Unsupported	Thickness	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
FDA-Approved Latex										
Merigold® Featherweight Plus	13"	Unsupported	15.00 mil	Fingers Only	Unlined	Straight	Natural	6½, 7½, 8½, 9½	G31H	**H7125**
VersaTouch® 87-155	12"	Unsupported	17.00 mil	Fingers Only	Flock	Pinked	Sky Blue	7, 8, 9, 10	87-155	**G6024**
VersaTouch® 88-356	12"	Unsupported	17.00 mil	Fingers Only	Unlined	Pinked	Blue	7, 8, 9, 10	88-356	**D0508**
VersaTouch® 62-401	13"	Supported	53.00 mil	Palm and Fingers	Cotton	Elastic	Blue	7, 8, 9, 10, 11	62-401	**H7542**
VersaTouch® 88-393	12"	Unsupported	17.00 mil	Palm and Fingers	Unlined	Straight	Natural	7, 8, 9, 10	88-393	**J4502**
VersaTouch® 87-370	13"	Unsupported	27.00 mil	Palm and Fingers	Flock	Straight	Orange	6½, 7½, 8½, 9½	87-370	**J2765**
Hy-Care®	12"	Supported	—	Fully	Cotton/Jersey	Pinked	Blue	8, 9, 10	62-400	**J2433**
Marigold® Astroflex	12"	Supported	50.00 mil	Palm and Fingers	Polyamide	Gauntlet	Blue	10, 11, 7, 8, 9	1184	**H7122**
Latex										
VersaTouch® 87-198	12"	Unsupported	17.00 mil	Fingers Only	Flock	Pinked	Yellow	7, 8, 9, 10	87-198	**D0512**
VersaTouch® 87-298	12"	Unsupported	20.00 mil	Fingers Only	Flock	Pinked	Yellow	8, 9, 7, 10	87-298	**D0513** *
Orange Heavyweight	13"	Unsupported	29.00 mil	Smooth	Flock	Pinked	Orange	7, 9, 10, 8	87-208	**D0516**
FDA-Approved Latex Blend										
Omni®	12"	Unsupported	20.00 mil	Palm and Fingers	Flock	Pinked	Green	9, 7, 8, 10	87-276	**D0519**
Chemi-Pro®	13"	Unsupported	27.00 mil	Fingers Only	Flock	Straight	Blue/Yellow	8, 9, 10, 7	87-224	**D0521**
Latex Blend										
Technicians™	12"	Unsupported	13.00 mil	Smooth	Unlined	Pinked	Natural	7, 8, 9, 10	88-390	**D0518**

** 12 pairs per package.*


No. J4437


No. J4452


No. J4449


No. J4445


No. J4444

Latex and Latex Blend Gloves

MCR SAFETY

Comfortable natural rubber material is strong, elastic, and temperature-resistant. Unsupported gloves provide excellent dexterity and tactile sensitivity. Flock lining on select gloves absorbs moisture and simplifies on/off. Latex blend with neoprene synthetic rubber is waterproof and stays flexible over a wide temperature range.

Style No.	Length	Thickness	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.	Pr. Pkg. Qty.
Latex									
5250	12"	15.00 mil	Palm and Fingers	Flock	Scallop	Yellow	S, M, L, XL	**J4437**	1
5090E	12"	16.00 mil	Palm and Fingers	Unlined	Scallop	Amber	S, M, L, XL	**J4452**	1
5290P	12"	18.00 mil	Palm and Fingers	Flock	Scallop	Yellow	S, M, L, XL	**J4438**	1
6845	12"	20.00 mil	Palm and Fingers	Interlock	Gauntlet	Yellow	M, L, XL	**J4449**	1
Latex Blend									
5409S	12"	28.00 mil	Palm and Fingers	Flock	Straight	Blue/Yellow	XS, S, M, L, XL, 2XL	**J4445**	12
5430	12"	28.00 mil	Palm and Fingers	Flock	Straight	Orange	S, M, L, XL	**J4444**	1

Find more information about gloves and glove sizing on page 1669.

Nitrile Gloves

Condor

- Suitable for people with latex allergies
- FDA-approved gloves meet FDA regulations for food contact

Contoured design adds comfort and the nitrile material provides high chemical protection. Textured finish improves grip. Unsupported gloves allow excellent dexterity and tactile sensitivity. Supported gloves enhance strength, comfort, and durability.


No. J4889

Length	Thickness	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.
FDA Approved Nitrile Gloves							
Unsupported							
13 in	11 mil	Palm and Fingers	Unlined	Straight	Green	7, 8, 9, 10, 11	**D0487**
13 in	15 mil	Palm and Fingers	Flock	Straight	Green	7, 8, 9, 10, 11	**D0489**
13 in	15.0 mil	Palm and Fingers	Flock	Straight	Green	7, 8, 9, 10, 11	**J5799**
15 in	22.0 mil	Palm and Fingers	Unlined	Gauntlet	Green	7, 8, 9, 10, 11	**J4889**
18 in	22 mil	Palm and Fingers	Unlined	Straight	Green	8, 9, 10, 11	**D0492**
Nitrile Gloves							
Supported							
12 in	47.0 mil	Palm and Fingers	Interlock Knit	Straight	Green	9	**D0475**
12 in	47.00 mil	Palm and Fingers	Interlock Knit	Straight	Green	10	**D0475**

Nitrile Gloves

Ansell

- Suitable for people with latex allergies
- FDA-approved gloves meet FDA regulations for food contact

Unsupported gloves offer high levels of flexibility, comfort, and dexterity. Supported glove construction adds strength.

VersaTouch®—Raised diamond-grip pattern for increased grip in wet, dry, and oily conditions.

Sol-Vex® and Sol-Vex® II—Curved finger design and contoured palm for comfort. Flock lining on select models eases donning and doffing and boosts comfort. Sol-Vex® II gloves have an aggressive grip surface and a tapered wrist.

Sol-Knit®—Curved, preflexed fingers reduce hand fatigue. Textured palm and fingers enhance wet/dry grip.

AlphaTec®—Diamond pattern palm helps improve dry/wet grip.


VersaTouch®
No. J2446


Sol-Vex®
No. D0503


Sol-Knit®
No. D0483


AlphaTec®
No. J2283

Length	Supported / Unsupported	Thickness	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
FDA-Approved Nitrile Gloves									
VersaTouch®									
12¾"	Unsupported	8.00 mil	Fingers Only	Unlined	Straight	Blue	7, 8, 9, 10, 11, 12	37-210	**J2446**
13"	Unsupported	11.00 mil	Fingers Only	Unlined	Straight	Blue	7, 8, 9, 10, 11	37-510	**G6023**
13"	Unsupported	11.00 mil	Fingers Only	Unlined	Straight	Green	7, 8, 9, 10, 11	37-646	**G6022**
Sol-Vex®									
13"	Unsupported	11.00 mil	Smooth	Unlined	Straight	Green	6, 7, 8, 9, 10, 11	37-145	**D0498**
13"	Unsupported	15.00 mil	Smooth	Unlined	Straight	Green	7, 8, 9, 10, 11	37-155	**D0499**
12"	Unsupported	15.00 mil	Smooth	Flock	Straight	Green	6, 7, 8, 9, 10, 11	37-175	**D0501**
15"	Unsupported	22.00 mil	Smooth	Unlined	Straight	Green	7, 8, 9, 10, 11	37-165	**D0502**
18"	Unsupported	22.00 mil	Smooth	Unlined	Straight	Green	7, 8, 9, 10, 11	37-185	**D0503**
Sol-Vex® II									
13"	Unsupported	15.00 mil	Fingers Only	Flock	Straight	Green	7, 8, 9, 10, 11	37-676	**D0507**
Sol-Knit®									
12"	Supported	47.00 mil	Palm and Fingers	Interlock Knit	Gauntlet	Green	7, 8, 9, 10	39-122	**D0483**
14"	Supported	47.00 mil	Palm and Fingers	Interlock Knit	Gauntlet	Green	7, 8, 9, 10	39-124	**D0484**
Nitrile Gloves									
AlphaTec®									
12"	Supported	13.00 mil	Palm and Fingers	Acrylic/Knit	Straight	Black/Green	7, 8, 9, 10, 11	58-530B	**J2647**
14"	Supported	13.00 mil	Palm and Fingers	Acrylic/Knit	Straight	Black/Green	7, 8, 9, 10, 11	58-535B	**J2648**
12"	Unsupported	26.00 mil	Fingers Only	Nitrile	Gauntlet	Sea Green	7, 8, 9, 10, 11	58-330	**J2282**
15"	Unsupported	31.00 mil	Fingers Only	Nitrile	Gauntlet	Dark Green	7, 8, 9, 10, 11	58-335	**J2283**

SHOWA

Nitrile Chemical-Resistant Gloves


No. D0482


No. D0505


No. D0486

Description	Thickness	Length	Supported / Unsupported	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.	Pkg. Qty.
NSK-24™	15.00 mil	14"	Supported	Palm and Fingers	Interlock Knit	Gauntlet	Blue	8, 9, 10, 11	**D0482**	1
Nitri-Solve®	15.00 mil	13"	Unsupported	Palm and Fingers	Flock	Gauntlet	Green	11, 6, 7, 8, 9, 10	**D0505**	1
Showa	12.00 mil	26"	Supported	Palm and Fingers	Interlock Knit Cotton	Elastic	Yellow	8, 9, 10, 7	**D0486**	1

SHOWA

Neoprene Chemical-Resistant Gloves



Durable Neo Grab™ gloves feature a 5-pc. flannel liner that helps keep you cool and comfortable in hot environments or warm in cold conditions. They're launderable and ideal for handling acids and caustics. Can be used in many heavy-duty applications such as pellet blasting and sandblasting. Rough finish is ideal for applications where a good wet grip is required.

Description	▶CHOOSE: Length	Supported / Unsupported	Texture Location	Lining	Cuff	Color	Size	Item No.	Pkg. Qty.
Neo Grab™	14", 18", 12"	Supported	Palm and Fingers	Flannel	Gauntlet	Black	10	**H0560**	1

Find more information about gloves and glove sizing on page 1669.



Neoprene Gloves

- FDA approved gloves meet FDA regulations for food contact

Degradation-resistant material protects against organic solvents, oils, greases, and petrochemicals and resists abrasion, punctures, and tearing. These unsupported gloves provide excellent dexterity and tactile sensitivity, and the textured finishes boost grip. The moisture-absorbing flock lining adds comfort. Black color.

Length	Thickness	Texture Location	Lining	▶CHOOSE: Size	Item No.
12"	25.00 mil	Palm and Fingers	Flock	S, M, L, XL, 2XL	J4887



Neoprene Gloves

- FDA approved gloves meet FDA regulations for food contact

Case-hardened for increased chemical and abrasion resistance, these gloves offer excellent resistance to a wide range of chemicals. Lightweight and flexible unsupported construction for very good dexterity and sensitivity. Powder-free to help avoid contamination and treated with Actifresh® to reduce bacterial buildup. Black color.

Length	Thickness	Texture Location	Lining	▶CHOOSE: Size	Mfr. Model	Item No.
13"	18.00 mil	Smooth	Flock	7, 8, 9, 10, 11	29-865	D0534



No. D0538



No. 5AC18



No. 4T436



No. 3RZJ5

Scorpio® Neoprene Gloves

Top-quality supported gloves are made to protect against a wide range of oils, acids, caustics, alcohols and many solvents, with good mechanical hazard resistance. The gauntlet cuff protects wrist and forearm.

Style Nos. 08-352 and 08-354—100% liquidproof gloves have a soft, stretchy knit liner that absorbs perspiration and helps prevent chafing. The textured finish provides an excellent wet grip.

Style Nos. 09-924, 09-928, 09-430, and 09-022—Quilted lining and top-quality full coating gloves with a comfortable contoured shape offers improved dexterity and reduced hand fatigue. Style No. 09-022 gloves permit intermittent handling in hot liquids up to 356°F and cold temps. down to -13°F.

- Meet FDA regulations for food contact, except Nos. 4T435 and 5AC18

Style No. 19-938—Premium-quality ¾-dipped gloves are designed for maximum protection. The fabric lining improves puncture and snag resistance, and the rough finish gives firm grip on wet surfaces.

Style Nos. 19-024 and 19-026—Double thermal liner allows intermittent contact with hot surfaces up to 400°F. A rough finish provides added protection and grip. The glove liner is removable for laundering.

- Meet FDA regulations for food contact

Style No.	Length	Thickness	Texture Location	Lining	Color	▶CHOOSE: Size	Item No.
08-352	12"	Standard Weight	Fingers Only	Interlock Knit	Green	7, 8, 9, 10	D0538
08-354	14"	Standard Weight	Fingers Only	Interlock Knit	Green	8, 9, 10	D0539
09-924	14"	Standard Weight	Smooth	Fleece/Jersey	Black	10	2AF71
09-928	18"	Standard Weight	Smooth	Fleece/Jersey	Black	10	4T435
09-430	31"	Standard Weight	Smooth	Fleece/Jersey	Black	10	4T436
09-022	12"	Standard Weight	Smooth	Interlock Knit	Black	10	5AC18
19-938	18"	Heavy Weight	Palm and Fingers	Jersey	Black	10	3RZJ5
19-024	18"	Heavy Weight	Palm and Fingers	Thermal	Black	8, 10	D0535
19-026	26"	Heavy Weight	Palm and Fingers	Thermal	Black	8, 10	D0536



No. D0559

Neoprene Chemical-Resistant Gloves

Sanitized cotton lining retards the growth of bacteria, mold, and mildew, reduces perspiration odor, and improves comfort.

Latex Blend—Durable Chem Master® gloves are double dipped; first in natural rubber latex for superior flexibility and strength, then in compounded neoprene blend for added chemical resistance and physical resilience. The black over blue construction warns you of wear and the need for replacement. Nonslip tractor-tread grip allows runoff of fluids. Excellent resistance to acids, oils, salts, and detergents.

Description	Glove Material	Thickness	Length	Supported / Unsupported	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
Latex Blend													
Chem Master®	Natural Rubber Latex / Neoprene	26 mil	12 in	Unsupported	Fully	Flock	Gauntlet	Black/Blue	7, 8, 9, 10	Showa	CHMM	D0559	1

Find more information about gloves and glove sizing on page 1669.

PVC Gloves

Condor

- Functional temp. range: -30° to 212°F

Protect from limited exposure to acids, bases, caustics, and alcohols. Supported gloves offer enhanced strength, comfort, and durability.

Single-Dipped—An economic alternative to double-dipped gloves.

Double Dipped—Soft, flexible gloves have seamless liners that won't irritate hands. Sandy finish provides extra gripping power.

Multidipped—Multidipped fully coated gloves provide superior abrasion resistance and nonslip grip while maintaining flexibility.

Reinforced Coating—Double-dipped coating offers excellent abrasion resistance and protection. Sanded-on rough finish provides nonslip wet grip.

Kevlar®-Lined—Fully coated with Kevlar® liner for cut protection. Sandy finish provides excellent dry and wet grip.


No. D0526


No. 22KA68


No. D0523


No. J4876


No. J5798

Length	Finish	Lining	Cuff	Color	▶CHOOSE: Size	Item No.
Single-Dipped						
12"	Rough	Interlock Knit	Gauntlet	Black	M, XL, L	**D0526**
Double-Dipped						
12"	Sandy	Acrylic/Cotton	Gauntlet	Red Brown	L	**22KA68**
12"	Sandy	Acrylic/Cotton	Gauntlet	Red Brown	XL	**22KA69**
Multidipped						
10½"	Smooth	Jersey	Knit Wrist	Black	M, XL, L	**D0523**
10½"	Rough	Jersey	Knit Wrist	Black	M, XL, L	**D0527**
12"	Smooth	Jersey	Gauntlet	Black	M, XL, L	**D0524**
12"	Rough	Jersey	Gauntlet	Black	M, XL, L	**D0528**
14"	Smooth	Jersey	Gauntlet	Black	M, XL, L	**D0525**
14"	Rough	Jersey	Gauntlet	Black	M, XL, L	**D0529**
Reinforced Coating						
13¾"	Sandy	Cotton	Gauntlet	Black	S, M, L, XL, 2XL	**J4876**
12"	Granular (Hand Portion)	Jersey	Gauntlet	Red Brown	L	**22KA62**
14"	Granular (Hand Portion)	Jersey	Gauntlet	Red Brown	L	**22KA63**
18"	Granular (Hand Portion)	Jersey	Gauntlet	Red Brown	L	**22KA61**
Kevlar® Lined						
14"	Sandy	Kevlar®	Gauntlet	Blue	XL, 2XL, M, L	**J5798**

PVC and PVC Blend Gloves

Ansell

VersaTouch®—Soft PVC coated gloves are designed for a comfortable, natural fit. Dipped rough finish helps make it easier and safer to handle wet and slippery materials. No. J2763 gloves protect at temps. > -30°F.


No. J2764

Length	Finish	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
VersaTouch®							
12 in	Rough	Cotton	Straight	Blue	7, 8, 9, 10	23-200	**J2764**
24 in	Rough	Cotton	Extended Sleeve	Blue	7, 8, 9, 10	23-201	**J2762**
VersaTouch®, Insulated							
24 in	Roughened Sandblast	Acrylic	Straight	Blue	8, 9, 10	23-202	**J2763**

SHOWA

PVC Chemical-Resistant Gloves

Help protect you against chemicals, remain flexible, and are designed for comfortable, continuous wear. Soft cotton liner helps absorbs perspiration.


No. H0556


No. D0533

Glove Material	Thickness	Length	Supported / Unsupported	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.	Pkg. Qty.
PVC	15.00 mil	10"	Supported	Smooth	Cotton	Knit Wrist	Green	M, L, XL	**H0556**	1
PVC	16.00 mil	12"	Supported	Palm and Fingers	Knit	Gauntlet	Blue	S, M, L, XL, 2XL	**D0533**	1

SHOWA

PVC Chemical- and Cut-Resistant Gloves

Triple-dipped PVC coating and the seamless, cut-resistant Kevlar® liner help protect you from cuts, oil, and a wide range of chemicals. ANSI Level 3 cut protection. Coating also increases abrasion resistance and ensures a secure grip. Gloves maintain cut performance even after multiple launderings.



Glove Material	Thickness	Length	Supported / Unsupported	Texture Location	Lining	Cuff	Color	▶CHOOSE: Size	Item No.	Pkg. Qty.
PVC	22 mil	12 in	Supported	Fully	Kevlar(R)	Gauntlet	Blue	M, L, XL, 2XL	**D6121**	1

Find more information about gloves and glove sizing on page 1669.

Cut and Abrasion Resistance for Hand and Arm Protection

ANSI/ISEA are the American National Standards Institute and International Safety Equipment Assocation. The ANSI Cut and Abrasion Resistance tables shown here are provided by ANSI and help identify the level of resistance provided by a material, enabling compliance with OSHA regulations 1910.138 (a) and 1910.138 (b), mitigating risk of injury, and increasing worker productivity.

Cut-resistant gloves protect hands from direct contact with sharp edges such as glass, metal, ceramics, and other materials. Cut resistance is a function of a glove's material construction. High-performing fabrics add cut protection without adding thickness. The ANSI/ISEA 105-2016 standard provides a consistent scale for manufacturers to rate their products in each of the designated areas based on standardized test methods.

Abrasion level indicates the wear resistance properties of a material. This test method provides a comparative ranking of material performance, which can be used as an indication of relative end-use performance. Glove coatings improve abrasion level over uncoated gloves.

Updated ANSI/ISEA Classification Levels for Cut Resistance

ANSI/ISEA 105 (2016)		ANSI/ISEA 105 (2005)	
New Cut Level Rating	Weight (grams) needed to cut through material** when tested with new test method designation ASTM F2992/F2992M-15	Old Cut Level Rating	Weight (grams) needed to cut through material* when tested in accordance with ASTM F1790-97 or F1790-05
N/A	N/A	0	<200
A1	≥200	1	≥200
A2	≥500	2	≥500
A3	≥1000	3	≥1000
A4	≥1500	4	≥1500
A5	≥2200	5	≥3500
A6	≥3000	N/A	N/A
A7	≥4000	N/A	N/A
A8	≥5000	N/A	N/A
A9	≥6000	N/A	N/A

***20mm (0.8 in.) of blade travel*

*** 25mm (1.0 in.) of blade travel – ASTM F1790-97**
20mm (0.8 in.) of blade travel – ASTM F1790-05

ANSI/ISEA Classification Levels for Abrasion Resistance

Level (tested at 500g load)	Abrasion cycles to fail
0	<100
1	≥100
2	≥500
3	≥1000
Level (tested at 1000g load)	
4	≥3000
5	≥10000
6	≥20000

Note: Tested in accordance with ASTM D3389.


No. D2037


No. D2044


No. J4929

Kevlar® Cut-Resistant Knit Gloves

- For dry environments

Seamless knit in flexible material that offers cut and heat resistance.

Uncoated—Use alone or as a liner for added protection. Ambidextrous.

PVC-Coated—Coating provides increased protection, grip, and extended wear. Reversible.

Leather Palm—Knit liner features a treated select leather palm and thumb crotch for added protection, heat resistance, and gripping ability. Double-lock stitched for durability.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Gauge	Coating Finish	Color	▶CHOOSE: Size	Item No.
Uncoated						
A2	1	7	None	Yellow	S, L	**D2034**
A2	1	13	None	Yellow	S, L	**D2031**
A3	2	7	None	Yellow	S, L	**D2037**
PVC-Coated						
A2	3	7	Dotted	Black/Yellow	S, L	**D2044**
A4	2	7	Dotted	Blue/Yellow	S, M, L, XL, 2XL	**J4928**
Leather Palm						
A3	6	7	None	Gray, Yellow	S, L, XL	**D2047**
A4	5	10	None	Green	S, M, L, XL, 2XL	**J4929**


No. J4409


No. D2047

MCR SAFETY

Condor

Ansell


No. D2024

Knit Cut-Resistant Gloves with Leather Palm

Knit cut-resistant gloves are breathable and have good dexterity. Leather on the palm-side of the hand and fingers increases durability and abrasion resistance over plain gloves.

ANSI/ISEA Cut Level	Glove Liner Material	Cut-Resistance Coverage	Thumb Style	Leather Grade	Size	Brand	Item No.
Cowhide							
A2	Kevlar(R)/ Cotton	Palm Side	Wing	Standard	S, M, L, XL	Mcr Safety	**J4409**
A3	Kevlar(R)	Palm Side	Wing	Premium	S, M, L, XL	Mcr Safety	**J4377**
A3	Kevlar®	Palm Side	Wing	Premium	3XL	Mcr Safety	**J4377**
A3	Kevlar(R)	Full	Wing	Standard	S, L, XL	Condor	**D2047**
A4	Kevlar(R)	Full	Straight	Standard	S, M, L	Condor	**H5895**
A4	Kevlar(R)	Palm Side	Straight	Standard	XL, 2XL	Condor	**H5895**
A7	Kevlar(R)/ Stainless Steel	Palm Side	Wing	Standard	L, S, M, XL, 2XL	Mcr Safety	**J4933**
Goatskin							
A5	Cotton/ Polyester	Full	Straight	Premium	8, 9, 10, 11, 7	Ansell	**D2024**


Neptune®
No. D2042


Vantage®
No. D2024

Kevlar® Cut-Resistant Knit Gloves

Ansell

- For dry environments

Neptune®—Nos. D2039 has a reinforced thumb crotch for extra protection.

Vantage®—Lightweight gloves feature reinforced thumb crotch. No. J3011 has a reinforced thumb for added protection and longer service life. No. D2024 leather palm is double-stitched with Kevlar fiber.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Material	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Neptune®							
A2	3	Uncoated	Smooth	Yellow	6, 7, 8, 9, 10	70-200	**H8919**
A2	3	PVC	Dotted	Blue/Yellow	XS, S, M, L, XL	70-330	**D2042**
A3	3	Uncoated	Smooth	Yellow	S, M, L	70-215	**D2036**
A3	3	Uncoated	Smooth	Yellow	XS, S, M, L, XL	70-225	**D2039**
Vantage®							
A4	2	Uncoated	Smooth	Gray	XS, S, M, L, XL, 2XL	70-761	**D2021**
A4	3	Uncoated	Smooth	Yellow	6, 7, 8, 9, 10	70-356	**J3011**
Vantage® with Leather Palm							
A5	5	Uncoated	None	Green	7, 8, 9, 10, 11	70-765	**D2024**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.

SHOWA

Cut-Resistant Gloves

These cut-resistant knit gloves have a 13-gauge knit shell made of HPPE engineered fibers, plated with Lycra®-Spandex® and Thermax® for unmatched stretch, comfort, and thermal warmth. Provides a higher level of tactile dexterity than other cut-resistant gloves. Ideal for handling box cutters, knives, shears, and fabricated and sharp-edged metals. Ambidextrous and reversible.



No. D2081

Coating Material	Coating Coverage	ANSI/ISEA Abrasion Level	ANSI/ISEA Cut Level	Gauge	Lining Material	Color	▶CHOOSE: Size	Item No.
T-Flex® Plus								
Uncoated	Uncoated	1	A4	13	HPPE	Light Gray	S, M, L, XL	**D2081**
T-Flex® Plus with PVC Dots								
PVC	Full	2	A4	13	HPPE	Blue/Gray	S, M, L, XL	**D2082**

★ Condor

Cut-Resistant Gloves for Food Processing Environments

Midweight gloves offer comfort in addition to puncture, cut, and abrasion resistance for a variety of food processing tasks. Polyester-stitched liner is high-performance polyethylene (HPPE) and glass fiber. Strong Dyneema® palm has a sensitive touch for detailed work.

Note: Dyneema® is a registered trademark of DSM IP Assets B.V.



ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Item No.
A4	3	Gray	S, M, L, XL, 2XL	**J4935**

★ Condor niroflex USA

Chainmail Cut-Resistant Gloves

- Stainless steel
- Ambidextrous

These chainmail cut-resistant gloves have a nylon strap that can be tightened to form a more secure fit than gloves with a stainless-steel cuff. Cuffs are color-coded by size, so gloves can be sorted and tracked visually and workers can choose the correct size.



No. G4015



No. G4016

Chainmail Cuff Length Style	Cuff Material	Size	Brand	Item No.
Wrist	Nylon	XXS, XS, S, M, L, XL, 2XL	Condor	**G4015**
Wrist	Stainless Steel		Niroflex Usa	**G4016**
3 in Extended	Stainless Steel		Niroflex Usa	**G4017**
6 in Extended	Stainless Steel		Niroflex Usa	**G4018**
9 in Extended	Stainless Steel		Niroflex Usa	**J2274**

Ansell

Cut-Resistant Gloves for Food Processing Environments

- Sold individually

Gloves are designed for comfort and dexterity while using knives, blades, and utensils in primarily dry food applications. Select gloves are specifically designed to protect areas most exposed to cut injury on the off hand, which does not hold the knife.

Spectra® and Dyneema® polyethylene fibers used to construct certain gloves are superstrong, lightweight, and extremely moisture/UV/chemical-resistant.

Note: Dyneema® is a registered trademark of DSM IP Assets B.V.

SafeKnit®—High-strength fibers offer superior comfort and flexibility and a high level of cut resistance in heavy-duty applications.

PolarBear®, PolarBear® Supreme, and PolarBear® Plus—PolarBear Nos. G9435 and G9436 lightweight knitted gloves provide comfortable protection for wearers working with sharp blades.

PolarBear Supreme No. G9432 employs a blend of fibers and advanced knitting method to provide the extremely high cut protection of stainless steel with a seamless design for added comfort.

PolarBear Plus No. G9437 has a close, comfortable fit good for most off-hand applications and to clean and change slicer blades.

PawGuard®—Medium-duty glove provides a close, comfortable fit and the cut protection of a heavyweight glove. Good for most knife-hand and some off-hand applications.

VersaTouch®—Knitted variable-stitch design adjusts to the shape of the hand to reduce fatigue and enhance cut protection. Exclusive materials manage moisture and hand temperature in hot and cold environments for high levels of comfort as well as cut protection. Off-hand (left) gloves are designed with zonal plating and Dyneema® Diamond Technology.



No. H8918



No. G9433

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Mfr. Model	Item No.
SafeKnit® (Ambidextrous)						
A3	3	Dyneema®	White	6, 7, 8, 9, 10	72-025	**H8918**
PolarBear®, PolarBear® Supreme, and PolarBear® Plus (Ambidextrous)						
A4	3	Dyneema®	Gray	6, 7, 8, 9, 10	74-047	**G9435**
A4	3	Dyneema®	White	6, 7, 9, 10	74-045	**G9436**
A8	3	Dyneema®	White	6, 7, 8, 9, 10	74-301	**G9432**
PawGuard® (Ambidextrous)						
A6	4	Dyneema®	White	XS, S, M, L, XL	74-048	**G9434**
A6	4	Dyneema®	Gray	XS, S, M, L, XL	74-048	**G9433**
VersaTouch® (Off-Hand)						
A4	4	Dyneema®	Gray/Green	7, 8, 9, 10, 10½	74-730	**H3437**
VersaTouch® (Knife-Hand)						
A4	4	Dyneema®	Gray/Green	7, 8, 9, 10, 11	74-731	**H3438**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.


No. H6346


No. J4927


No. H4213


No. J4934


No. H6337

Condor

Cut-Resistant Palm-Coated Gloves

- For dry and light oil applications

COATING MATERIALS

Coated gloves boost job performance by enhancing grip, particularly on slippery surfaces.

Natural Rubber Latex—A natural material with elasticity that resists cuts, punctures, and slashes.

Nitrile—Protects against petroleum, acids, and solvents, and resists snags, punctures, abrasion, and cuts.

Polyurethane—Allows tactile sensitivity and helps protect hands from harmful residue and chemicals.

LINING MATERIALS

Provide high level of hand protection.

Polyester—Cost-effective, durable material wicks moisture away from the skin. Well-suited for a wide range of demanding applications.

Kelvar®—Aramid fiber offers cut and heat resistance good for automotive, sheet metal, and glass handling tasks.

HPPE—High performance polyethylene material offers cut, puncture, and abrasion resistance in carpentry and joining tasks and when handling ceramics, glass, and plastics.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Coating Finish	Color	▶CHOOSE: Size	Item No.
Natural Rubber Latex						
A2	4	Polyester	Crinkled	Gray	S, M, L, XL, 2XL	**H6346**
A3	3	Kevlar®	Crinkled	Blue/Yellow	S, M, L, XL, 2XL	**D1996**
A3	4	Polyester, Stainless steel	Crinkled	Black/Yellow	S, M, L, XL, 2XL	**J4922**
A5	4	Kevlar®	Crinkled	Black/Yellow	S, M, L, XL, 2XL	**J4925**
Nitrile						
A2	3	Kevlar®	Rough	Black/Yellow	XS, S, M, L, XL, 2XL	**D1963**
A2	5	Kevlar®	Foam	Black/Yellow	S, M, L, XL, 2XL	**J4926**
A3	5	Polyester, Stainless steel	Smooth	Green/Yellow	S, M, L, XL, 2XL	**J4923**
A3	5	HPPE, Spandex®	Foam	Black/Gray	S, M, L, XL, 2XL	**J4920**
A3	5	HPPE, Spandex®	Foam	Gray/Orange	S, M, L, XL, 2XL	**J4919**
A4	5	Kevlar®	Foam	Gray/Yellow	S, M, L, XL, 2XL	**H4213**
A4	5	Kevlar®, Spandex®	Foam	Blue/Yellow	S, M, L, XL, 2XL	**J4927**
A4	5	HPPE	Foam	Gray	S, M, L, XL, 2XL	**J4921**
Polyurethane						
A2	3	HPPE	Smooth	Blue	S, M, L, XL, 2XL	**J4934**
A2	4	HPPE	Smooth	Gray	S, M, L, XL, 2XL	**D1984**
A2	4	HPPE	Smooth	Gray/White	S, M, L, XL, 2XL	**G6616**
A2	5	HPPE	Smooth	White	S, M, L, XL, 2XL	**H6345**
A3	4	HPPE	Smooth	Black/Gray	S, M, L, XL, 2XL	**H6337**
A4	4	HPPE	Smooth	Black	S, M, L, XL, 2XL	**H4212**
A4	4	HPPE, Spandex®	Smooth	Black/Gray	S, M, L, XL, 2XL	**J4924**


No. D1486

No. D1528

Cut-Resistant Palm-Coated Gloves

Ansell

- For dry and light oil environments

Raised crinkle finish gives excellent grip in wet and dry conditions.

PowerFlex® 80-100—Knitted liner provides a tensioned inner surface for optimal fit and flexibility.

PowerFlex® Plus 80-600—100% Kevlar liner provides exceptional cut, abrasion, and puncture resistance.

PowerFlex® 80-400—Thermal terry loop liner and naturally insulating coating offer excellent protection against the cold, down to -22°F for brief contact. Bright liner color boosts visibility for safety in low or poor light. The thumb is fully coated for added protection.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Item No.
PowerFlex® 80-100					
A2	4	Cotton, Polyester	Blue/Gray	S, M, L, XL	**D1486**
PowerFlex® Plus 80-600					
A2	4	Kevlar®	Blue/Yellow	S, M, L, XL	**D2002**
PowerFlex® 80-400					
A3	4	Acrylic Terry	Blue/High-Visibility Yellow	S, M, L, XL, 2XL	**D1528**


No. J4397

UltraTech® Cut-Resistant Palm-Coated Gloves

MCR SAFETY

Nitrile Coated—Stretch Kevlar® shell with light foam nitrile palm and fingertips offers softness and flexibility. Actifresh® treatment helps prevent odor and bacteria.

Polyurethane Coated—Dyneema® fiber dissipates body heat and moisture for longer wear time. Coating lends a sensitive touch for extra control.

Note: Dyneema® is a registered trademark of DSM IP Assets B.V.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Nitrile						
A2	3	Smooth	Black/Yellow	XS, S, M, L, XL, 2XL	9693	**J4397**
Polyurethane						
A3	5	Smooth	White	XS, S, M, L, XL	9677	**E4241**


No. J4380

MCR SAFETY

Memphis® Cut Pro™ Cut-Resistant Palm-Coated Gloves

Polyurethane Coated—PU coating adds abrasion resistance and grip for tough jobs. No. J4380 seamless shell is cool and comfortable.

Nitrile Coated—Foam dipped finish gloves provide excellent wet grip. Flat nitrile dip gives extra cut/puncture protection. No. J4381 HPPE/synthetic shell supplies cut, tear, and abrasion resistance. No. J4382 has HPPE and steel liner offers superior cut and abrasion resistance.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Polyurethane						
A2	4	Smooth	Black	XS, S, M, L, XL, 2XL	92723PU	**J4380**
A3	4	Smooth	Black	S, M, L, XL, 2XL	92733PU	**J4416**
Foam Nitrile						
A2	5	Smooth	Black	S, M, L, XL, 2XL	92723NF	**J4381**
A6	4	Smooth	Black	S, M, L, XL, 2XL	92720NF	**J4382**



Biopolymer Cut-Resistant Gloves

SHOWA

Abrasion-resistant gloves help protect you from sharp edges on ceramics, glass, metals, and provide a flexible and comfortable feel. Durable biopolymer coating and suitable for use in dry and light oil applications.

Coating Coverage	ANSI/ISEA Abrasion Level	ANSI/ISEA Cut Level	Gauge	Lining Material	Color	▶CHOOSE: Size	Item No.
Palm	4	A4	13	HPPE, Fiberglass, Nylon, Spandex®	Black/Gray	S, M, L, XL, 2XL	**H7936**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.



ActivArmr® Cut-Resistant Gloves

Ansell

▪ For dry and light oil environments

Lightweight, proprietary knits and snug-fitting designs deliver breathable, second-skin dexterity for all-day protection. Durable, comfortable gloves are good for general industrial and construction use. Select designs have specific liner, coating, and design features for specialized trades.

A. Cold Weather High-Visibility—2-ply design provides superior protection from the elements. Soft acrylic terry layer keeps hands warm in cold conditions. Bright orange liner offers extra visibility, and contrasting black ¾ double-dipped, sandy-finish coating provides excellent grip.

B. Medium-Duty Hi-Viz™—Highly visible bright orange liner and coating has a reflective logo to stand out in low light. Features Ansell Grip Technology™ to help wearers retain their grip on wet or oily objects, reducing fatigue, muscle strain, and risk of repetitive strain injury.

C. Multipurpose Medium-Duty—Reinforced palm ridges and a layer of Kevlar withstand harsh abrasion and cuts and deliver excellent dexterity and precision while working with rough materials and power tools. Adjustable pull-tab wrist with ID nameplate.

D. HVAC—Offers superior cut protection, enhanced wet/dry grip, and advanced dexterity while working with ducts and other sharp/jagged materials. Hook-and-loop neoprene closure with pull tab for tight fit.

E. General Industry—Stretch armor yarn combines Kevlar and Intercept Technology® to protect against snips, screws, and sheet metal to deliver excellent protection in general construction, installation, HVAC, and industrial tasks. Foam nitrile coating provides enhanced grip.

F. Heavy Laborer—Ergonomic, breathable glove provides superior comfort and protection from punctures, cuts, and abrasions during extended periods handling concrete, wood, or metal debris. Intercept Technology® employs stainless steel and Kevlar fibers to protect against snips, screws, and sheet metal. Reinforced gel-padded palm absorbs impact and vibration.

G. Multipurpose Heavy-Duty—Versatile glove is engineered to deliver ultimate cut, puncture, and abrasion resistance for the most demanding jobs in construction, demolition, sheet metal, and masonry. Intercept Technology® employs stainless steel and Kevlar fibers to protect against snips, screws, and sheet metal. Rugged construction features reinforced ridges for added palm and knuckle protection. Adjustable wrist closure with pull tab and ID nameplate.

Key	Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Palm Material	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
¾ Dipped Coverage										
A	Cold Weather High-Visibility	A2	4	Acrylic, Latex, Polyester	Acrylic Polyester/Nitrile	Sandy	High Visibility Orange	8, 9, 10, 11	97-011	**H6525**
Palm and Fingers Coating Coverage										
B	Medium-Duty HI-VIZ™	A2	4	Polyester, Spandex®, Technor®	Water-Based Polyurethane/Nitrile	Foam	High-Visibility Orange	7, 8, 9, 10, 11	97-013	**H6527**
C	Multipurpose Medium-Duty	A2	4	Kevlar®, Nylon, Spandex®	Kevlar®, Nylon, Spandex®	Foam	Black/Gray/Orange	S, M, L, XL	97-008	**G9429**
D	HVAC	A3	3	Kevlar®, Nylon, Spandex®, Stainless Steel	Nitrile	Foam	Black/Blue	9, 10, 11	97-002	**G4899**
E	General Industry	A4	5	Kevlar®, Lycra®, Polyester, Stainless Steel	Foam Nitrile	Foam	Black/Blue	S, M, L, XL	97-505	**D1977**
F	Heavy Laborer	A4	4	Kevlar®, Spandex®	Foam Nitrile	Foam	Black/Blue	9, 10, 11	97-003	**G6019**
G	Multipurpose Heavy-Duty	A4	4	Kevlar®, Lycra®, Nylon, Stainless Steel	Kevlar®, Lycra®, Nylon, Stainless Steel	Foam	Black/Gray/Orange	S	97-009	**G9428**
G	Multipurpose Heavy-Duty	A4	4	Kevlar®, Lycra®, Nylon, Stainless Steel	Lycra®, Kevlar®, Nylon, Stainless Steel	Foam	Black/Gray/Orange	M, L, XL	97-009	**G9428**

KS-4 Cut-Resistant HPT® Palm-Coated Gloves

MCR SAFETY

Lightweight protective gloves have a textured HPT® (Hydropellent Technology®) coating that repels liquids to provide a firm wet or dry grip and Kevlar®/stainless steel liner for high dexterity and puncture protection. The high cut protection and solid grip are particularly useful for tasks such as sheet metal pressing, framing, and small part assembly.



ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
A4	4	Black/Green	S, M, L, XL, 2XL	9389PV	**J4378**

KS-5 Cut-Resistant Latex Palm-Coated Gloves

MCR SAFETY

Blend of Kevlar® and stainless steel in the lightweight, high-dexterity shell provides superior cut protection. Textured latex palm and finger coating enhances grip and puncture protection.



ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
A4	3	Black/Green	S, M, L, XL, 2XL	9389	**D2003**

SHOWA

Polyurethane Cut-Resistant Palm-Coated Gloves

Comfortable, launderable gloves provide both the protection and the sensitivity that you need to perform delicate tasks where there is a high risk of cut injuries. The polyurethane palm and finger coating help ensure a reliable grip on greasy and oily work pieces, while the HPPE lining provides a comfortable fit. An elastic knit-wrist helps keep out debris.



Coating Coverage	ANSI/ISEA Abrasion Level	ANSI/ISEA Cut Level	Gauge	Lining Material	Color	▶CHOOSE: Size	Item No.
HPPE Lining							
Palm	6	A2	13	HPPE	Gray	S, M, L, XL, 2XL	**D1982**

SHOWA

Cut-Resistant Rubber Palm-Coated Gloves

Seamless Kevlar® lining and rough natural rubber palm and finger coating provide both exceptional cut and abrasion resistance, and an outstanding wet and dry grip. Knuckles are uncoated to enhance breathability, flexibility, and dexterity. Launderable.



Coating Coverage	ANSI/ISEA Abrasion Level	ANSI/ISEA Cut Level	Gauge	Color	▶CHOOSE: Size	Item No.
Palm	4	A3	10	Blue/Yellow	S, M, L, XL, 2XL	**D1998**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.



No. H6477



No. D1967



No. G9454



No. D1991



No. D1989



No. G9455



No. G6021



No. H6520



No. D1975



No. H6517



No. D1976

HyFlex® Cut-Resistant Palm-Coated Gloves

Ansell

▪ **For dry and light oil environments**

Gloves are designed to balance comfort, protection, and dexterity when handling small parts and in general assembly applications.

Note: Dyneema® is a registered trademark of DSM IP Assets B.V.

Kevlar® Lining—Foam nitrile coating offers a sure grip. Style 11-500 delivers excellent cut protection and high tactile sensitivity for a broad range of applications. Style 11-510 features proprietary Intercept™ cut resistance technology, which employs nylon and Kevlar zonal plait on palm and back for flexibility, comfort, and durability with reinforced abrasion resistance.

Dyneema® Lining—Polyurethane coating offers tear and abrasion resistance, longer wear, and sure grip in dry and slightly oily environments.

Style 11-518 is a lightweight 18-ga. glove that offers a breathable, barehanded feel. Dyneema Diamond Technology provides unprecedented comfort, dexterity, and protection for precision handling and assembly of sharp, ultrafine parts.

Style 11-624 features ergonomic design with engineered yarn to provide comfort, softness, and coolness. Style 11-627 Dyneema® and Lycra® liner is cool and comfortable to help reduce hand fatigue.

Style 11-435 antistatic seamless plaited glove combines glass fiber and nylon yarn with Dyneema® fiber for cut protection. Eco-friendly coating provides enhanced dexterity and comfort.

HPPE Lining—Style 11-644 Ansell Cut Protection Technology™ combines a proprietary blend of high-performance polyethylene yarn (HPPE) with a polyurethane coating for enhanced cut protection, wear life, and comfort with a high level of dexterity.

Style 11-927 offers enhanced protection and a consistent grip on objects coated with lubricants in a wide range of viscosities. Oil-repellent Ansell Grip Technology™ with ¾-dip geometry grips in medium-duty oily applications almost as if conditions were fluid-free.

Kevlar/Stainless Steel Lining—Intercept Technology® yarn blend offers superior cut resistance, light weight, and outstanding dexterity. Resists heat and molten splashes. Foam nitrile coating helps grip when handling sharp parts and knives. Excellent for dry and light oil environments while handling glass, sheet metal, wood, concrete blocks, and other jobs in construction, metal fabrication, and assembly.

Style 11-501 stretch liner fits bare-hand close, to reduce the risk of snags and provide outstanding dexterity. Style 11-511 enhanced cuff overedging increases wrist elasticity. Style 11-515 high-visibility materials ensure fingers can be seen while installing glass and doing other tasks.

Style No.	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Material	Coating Coverage	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Kevlar® Lining									
11-500	A2	3	Nitrile	Palm and Fingers	Smooth	Black, Yellow	8, 9, 10	11-500V	**H6477**
11-510	A2	4	Nitrile	Palm and Fingers	Sandy	Black, Yellow	XS, S, M, L, XL, 2XL	11-510	**D1967**
Dyneema® Lining									
11-518	A2	3	Polyurethane	Palm	Foam	Blue/Blue	6, 7, 8, 9, 10, 11	11-518	**G9454**
11-624	A2	5	Polyurethane	Palm and Fingers	Smooth	Black, Gray	6, 7, 8, 9, 10, 11, 12	11-624	**D1991**
11-627	A2	5	Polyurethane	Palm and Fingers	Smooth	Gray	6, 7, 8, 9, 10, 11	11-627	**D1989**
11-435	A3	5	Polyurethane	Palm and Fingers	Smooth	Black, Gray	6, 7, 8, 9, 10, 11	11-435	**G9455**
HPPE Lining									
11-644	A2	5	Polyurethane	Palm	Foam	Gray/White	5, 6, 7, 8, 9, 10, 11, 12	11-644	**G6021**
11-927	A2	4	Nitrile	Palm	Foam	Black/Gray	6, 7, 8, 9, 10, 11	11-927	**H6520**
Kevlar®/Stainless Steel Blend Lining									
11-501	A5	3	Foam Nitrile	Palm	Foam	Blue/Gray	XS, S, M, L, XL, 2XL	11-501	**D1975**
11-515	A5	4	Foam Nitrile	Palm	Foam	High-Visibility Orange/Yellow	6, 7, 8, 9, 10, 11	11-515	**H6517**
11-511	A5	4	Foam Nitrile	Palm	Foam	Green/Yellow	XS, S, M, L, XL, 2XL	11-511	**D1976**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.

Ansell

Cut-Resistant Nitrile Coated Gloves

No. D2006



- For oily environments
- Safety cuff

Metalist®—Designed for heavier duty tasks. 2-pc. liner is cotton with Kevlar® reinforcement in high-stress areas. Flexible foam nitrile coating provides cut and abrasion resistance.

NitraSafe® and NitraSafe® Foam—Ergonomically designed gloves combine Kevlar®-reinforced cotton jersey knit lining with advanced nitrile coating technology for enhanced protection and grip. NitraSafe® Foam gloves have a porous foam nitrile palm coating that channels oil and grease from the surface for good grip.



No. D2017

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Coverage	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Metalist®						
A2	3	¾ Dip	Maroon	S, M, L, XL	28-507	**D2006**
NitraSafe®						
A3	4	Full	Black	M, L, XL	28-359	**D2017**
NitraSafe® Foam						
A2	3	¾ Dip	Gold, Orange	M, L, XL	28-350	**D2014**
A2	4	Full	Burnt Orange	8, 9, 10	28-360	**H0980**

Cut-Resistant Natural Rubber Coated Gloves

Ansell

- For dry and light oil environments

Crinkle-finish natural rubber coating provides excellent protection and durability. Soft cotton jersey knit lining for comfort and flexibility.

No. 4T415



Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Cuff	Color	Size	Mfr. Model	Item No.
Golden Grab-It® II	A2	4	Safety	Yellow	XL	16-347	**4T415**

HexArmor

Cut-Resistant Leather Driver's Gloves



SteelLeather® premium full-grain goatskin leather gloves provide premium dexterity and durability. SuperFabric® material and knuckle patch is resistant against cuts, abrasions, punctures, and won't snag, fray, or tear. Gloves are clute cut with straight thumb and shirred cuff. Double-stitched with nylon thread.

ANSI/ISEA Cut Level	ANSI/ISEA Puncture Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
A6	3	Gray, White	XS	5033-XS (6)	**D2071**
A6	3	White, Gray	S, M, L, XL, 2XL	5033	**D2071**

No. J3478



MCR SAFETY

Condor

No. D6162



Cowhide Leather Cut-Resistant Gloves

Leather cut-resistant gloves provide higher abrasion resistance and protection from incidental heat and sparks than coated knit gloves.

ANSI/ISEA Cut Level	Thumb Style	Cuff Style	Leather Grade	Cut-Resistance Coverage	Size	Brand	Item No.
Alycore(R)							
A9	Keystone	Slip-On	Standard	Palm Side	M, L, XL, 2XL	Mcr Safety	**K2610**
A9	Wing	Safety	Standard	Palm Side	M, L, XL, 2XL	Mcr Safety	**K2611**
Kevlar®							
A3	Wing	Safety	Premium	Full	S, M, L, XL, 2XL	Mcr Safety	**J3478**
A3	Wing	Safety	Premium	Palm Side	M, L, XL	Mcr Safety	**D1587**
A3	Wing	Safety	Standard	Full	S, L, XL	Condor	**D6162**

HexArmor

Cut-Resistant Latex Palm-Coated Gloves



No. D2076



No. D2063

Highly durable, cut-resistant SuperFabric® material won't snag, fray, or tear.

9000 Series™—Gloves are designed to protect against lacerations and industrial punctures while offering exceptional dexterity and feel. The comfortable cotton-blend shell is supplemented with SuperFabric on the palm for enhanced protection. Textured rubber palm dip maintains the highest grip and increased abrasion resistance in varying conditions.

- For dry environments

SharpsMaster II®—Multiple-layer SuperFabric construction offers the highest levels of needle, puncture, and cut protection. The gloves provide superior dexterity and comfort. Their textured rubber palm coating has Actifresh® antimicrobial treatment.

- For dry and light oil environments

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	ANSI/ISEA Puncture Level	Cuff	Coating Coverage	Color	▶CHOOSE: Size	Mfr. Model	Item No.
9000 Series™								
A7	Not Tested	4	Safety	Palm	Black/Red	S	9011	**D2063**
A7	Not Tested	5	Knit	Palm	Black/Red	M, L, XL, 2XL	9011	**D2063**
SharpsMaster II®								
A9	Not Tested	5	Knit	Palm	Orange/ White	S, M, L, XL	9014	**D2076**
A9	Not Tested	5	Knit	Palm	Orange/ White	XS	9014-XS(6)	**D2076**



No. J7530



No. H5449

BDG BOB DALE GLOVES

MCR SAFETY

Goatskin Leather Cut-Resistant Gloves

These gloves provide 360° hand protection when encountering medium to heavy cut hazards, such as those found when handling light glass and recycling materials, working with raw materials, stamping and fabricating metal, and installing HVAC ductwork. Goatskin is a soft, supple leather that has excellent dexterity and resist abrasion, tears, and water better than other leathers. Drivers-style gloves are formfitting to provide more comfort and dexterity than leather work gloves.

ANSI/ISEA Cut Level	Thumb Style	Cuff Style	Leather Grade	Size	Brand	Item No.
Aramid						
A5	Keystone	Shirred Slip-On	Premium	S, M, L, XL, 2XL, 3XL	Bdg	**K2608**
A5	Keystone	Shirred Slip-On	Premium	S, M, L, XL, 2XL, 3XL	Bdg	**K2609**
Dyneema(R) Diamond						
A4	Keystone	Slip-On	Premium	L, M, XL, 2XL	Mcr Safety	**J7530**
Kevlar(R)						
A3	Straight	Slip-On	Premium	S, M, L, XL, 2XL, 3XL	Mcr Safety	**H5449**
A4	Keystone	Shirred Slip-On	Premium	XS, S, M, L, XL, 2XL	Bdg	**K2606**
A4	Keystone	Gauntlet	Premium	XS, S, M, L, XL, 2XL	Bdg	**K2607**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.


No. J3179


No. G2435

Mechanics-Style Needlestick-Resistant Gloves

HexArmor with SuperFabric

Mechanics-style needlestick-resistant gloves have knuckle padding and palm coatings and are formfitting to provide comfortable protection against needlesticks, abrasion, lacerations, and extreme cut hazards. They have a good fit for dexterity and are worn by workers who come into contact with hypodermic needles and are at risk of needlesticks.

ANSI/ISEA Needlestick Level	ANSI/ISEA Cut Level	Needlestick Coverage	Cuff Style	Color	Size	Item No.
5	A9	Full	Shirred Slip-On	Black	S, M, L, XL, 2XL	J3179
5	A9	Palm Side	Hook-and-Loop	Black	XXS, S, M, L, XL, 2XL	G2435


No. J4905


No. J4899

No. J4123

Cut-Resistant High-Visibility Mechanics Gloves

Ironclad Performance Wear

- Gauntlet cuff

Industrial Impact Rigger Cut 5—EN388 cut level 5 palm liner, and a cut-resistant reinforced rope channel for grip, durability, and protection. Impact protection covers fingers, thumb, knuckles, and metacarpal bones.

Vibram® O.B.M. Cut 5—Meet CE EN388 cut level 5 and are designed for impact protection plus maximum grip in saturated conditions, including oil-based mud (O.B.M.). PTFE protection on shell fabrics.

KONG® Deck Crew Cut 5—Full-finger gloves CT5™ cut-resistant material meets CE EN388 level 5. Abrasion-resistant, 4-layer PTFE treated palm for oil and water resistance. Spandex back, with TPR finger, knuckle, and back-of-hand protection.

Palm Material	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Industrial Impact Rigger				
Duraclad®	Orange/Black	S, M, L, XL, 2XL, 3XL	INDI-RC5	J4905
VIBRAM® O.B.M. (Oil Based Mudd)				
Vibram™ Vulcanized Rubber	Orange, Black, Hi-Vis Yellow	S, M, L, XL, 2XL, 3XL	VIB-OBMC5	J4899
KONG® Deck Crew				
Armortex®	Green/Red	S, M, L, XL, 2XL	KDC5	J4123


No. G6916


No. G2434


No. D2068

Cut-Resistant Leather Palm Mechanics Gloves

HexArmor with SuperFabric

Breathable, water-resistant, high-durability SuperFabric® material provides high levels of cut and puncture protection.

Rig Lizard® 2021—High-flex Impact Exoskeleton™ design helps protect against forceful blows to back of hand. Guard between thumb and index finger secures common pinch and catch points. Curved shape and high-visibility color scheme.

- For oil environments

Chrome Series® Mechanic's+ 4018—Features an abrasion-resistant knuckle patch and reliable-grip synthetic leather palm.

- For dry and light oil environments

Chrome Series® 4026—Back-of-hand impact protection system is designed to dissipate forceful blows over a large area. Synthetic leather palm has abrasion-resistant PVC dots for a reliable grip. High-visibility color and reflective tape on back of hand.

- For dry and light oil environments

ANSI/ISEA Cut Level	ANSI/ISEA Puncture Level	▶CHOOSE: Color	▶CHOOSE: Size	Mfr. Model	Item No.
Rig Lizard®					
A3	4	Black, Hi-Vis Yellow, Red, Hi-Vis	XS, S, M, L, XL, 2XL, 3XL	2021	G6916
Chrome Series® Mechanic's+					
A6	3	Black, Blue	S, M, L, XL, 2XL	4018	D2068
Chrome Series®					
A8	2	Black, Hi-Vis Yellow, Black, Hi-Vis Green	XS, S, M, L, XL, 2XL, 3XL	4026	G2434


No. H7894


No. H7893

Cut-Resistant Gloves

MCR Safety MECHANIX WEAR

Have touchscreen capable palm and fingers and a thermoplastic rubber (TPR) closure with hook and loop for a secure fit. An internal layer of Armortex® helps protect fingers and palm from abrasions and cuts. Machine washable.

M-Pact® E5—Features molded thermoplastic rubber (TPR) impact and pinch-point protection for knuckles and fingers, with added Impact Guard™ EVA foam on the first knuckle. Thumb and index finger grip is enhanced by rubberized tacky material. The D30® palm padding helps reduce hand fatigue while the TrekDry® material helps keep hands cool and comfortable.

The Original® E5—Hands can stay cool and comfortable with TrekDry® material.

Description	ANSI/ISEA Abrasion Level	ANSI/ISEA Cut Level	Lining Material	Cuff	Color	▶CHOOSE: Size	Item No.
M-Pact® E5	4	—	Polyester, Spandex®, Technor®	Hook-and-Loop	High Visibility Yellow	S, M, L, XL, 2XL	H7894
The Original® E5		A5					H7893


No. J0990


No. G2616


No. G2618


No. G2403


No. G2617

Cut-Resistant Gloves

SHOWA

Feature Hagane Coil® design that combines Hagane stainless steel with polyester to provide a high level of cut resistance.

S-TEX® 376—Ergonomic design with a ¾ nitrile-coated base that helps protect from abrasion, grease, and oil. An additional coating of nitrile foam covers the palm and fingertips to provide a secure lasting grip in oily and wet conditions.

S-TEX® 300—The form-fitting design allows maximum dexterity while the natural rubber palm coating has a rough textured finish for a secure grip under dry or wet conditions. Open-back design offers breathability for greater comfort.

S-TEX® 350—Nitrile coating on palms resists abrasions, snags and punctures, and protects against petroleum, acids, and solvents. Rough finish helps provide a firm grip under dry and greasy conditions. Comfortable open-back, ergonomic design.

S-TEX® 541—Polyurethane coating for dexterity, flexibility, abrasion resistance, and protects hands from grease and oil. Seamless liner helps prevent irritation for enhanced comfort. Ergonomic design reduces hand fatigue and the open back design helps promote breathability for greater comfort.

S-TEX® 303—Feature a shell with the added combination of Kevlar® to the stainless steel core for excellent hand protection from cuts and lacerations. Rubber palm coating for greater wet/dry grip and enhanced durability. Open-back design offers extra comfort and flexibility.

Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating and Palm Material	Color	▶CHOOSE: Size	Item No.
S-TEX® 376	A4	4	Foam Nitrile	Black/Blue/Gray	S, M, L, XL, 2XL	J0990
S-TEX® 300	A4	4	Natural Rubber Latex	Black/Yellow	S, M, L, XL	G2616
S-TEX® 350	A4	4	Nitrile	Green/Yellow	S, M, L, XL	G2618
S-TEX® 541	A4	6	Polyurethane	Black/Gray	S, M, L, XL, 2XL	G2403
S-TEX® 303	A8	4	Natural Rubber Latex	Black/Yellow	S, M, L, XL	G2617

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.



No. H6528



No. J0290

Ansell

ActivArmr® Cut-Resistant Gloves for Oilfield Environments

Specialist styles are engineered to help keep hands dry and protected in messy environments, with breathable nitrile foam ¾ dip for enhanced grip and comfort. Intercept Technology®, with stainless steel and Kevlar® fibers, helps protect against cuts from sharp edges. The better grip on wet or oily objects offered by Ansell Grip Technology™ helps reduce fatigue, muscle strain, and risk of repetitive strain injury. High-visibility color helps boost safety in dirty or dark conditions.

Oilfield Services—Oil-repellent, water-resistant glove provides excellent grip and protection. It helps protect hands from oil and grease and from contact with heated pipes and vessels. Hi-vis design includes a retroreflective logo for low-light signaling.

- For dry and light oil environments

Oil and Impact—This style is made to help wearers stay comfortable and productive all day in rigorous upstream exploration and production environments. It features a TPR impact bumper on the back plus engineered synthetic/natural fiber yarns for high cut protection and dexterity, and proprietary wet-grip technology.

- For extreme oil environments and impact protection

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Oilfield Services					
A2	4	Orange	8, 9, 10, 11, 12	97-100	**H6528**
Oil and Impact					
A2	4	Hi-Vis Orange	8, 9, 10, 11, 12	97-120	**J0290**



YOUNGSTOWN
#1 IN DURABILITY

Cut-Resistant Gloves with Arc Flash and FR Protection

- Meet ASTM F2302
- 100% Waterproof/Winterized

Made of 18-oz. goat grain leather with 4" cuff for wrist protection. Ergonomic design for a comfortable fit with excellent dexterity and durability. Gloves are lined with Kevlar® for additional cut-resistant protection and exceed ASTM D6413 for flame resistance.

ATPV Rating	ANSI/ISEA Cut Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
50.0 cal./cm²	A2	Tan	S, M, L, XL, 2XL	11-3285	**G6926**



Ansell

PowerFlex® Cut-Resistant Gloves with Arc Flash and FR Protection

- Meet ANSI and ASTM F2675-13
- For dry and light oil environments

Designed to offer protection along with an ergonomic fit and pliable comfort. The glass fiber, modacrylic, and Kevlar® materials retain their flame resistance after washing. Stainless steel filament core. The foam neoprene palm coating offers flexibility and a secure grip in varied tasks.

ATPV Rating	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	▶CHOOSE: Size	Mfr. Model	Item No.
5.7 cal/cm²	A4	3	6, 7, 8, 9, 10, 11	80-813	**D6133**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.



No. D2059



No. D2062

HexArmor

Cut-Resistant Protective Arm Guard and Sleeve

- Sold individually

Durable SuperFabric® guard plate provides high levels of puncture and cut protection. Material is lightweight, cooler than knit or leather, and won't snag, fray, or tear. Adjustable hook-and-loop closure provides a snug fit that stays in place and won't fall down like knit sleeves. Gray color.

ANSI/ISEA Cut Level	L	▶CHOOSE: Size	Color	Item No.
Arm Guard with Spandex Wrist Insert and Thumbhole				
A7	9"	S, M, L, XL, 2XL, XS, 3XL	Gray/Green	**D2059**
Arm Sleeve with Neoprene Thumbhole and Alligator Sleeve Clip				
A7	19"	S, M, L, XL, 2XL, XS	Black/Green	**D2062**

Condor

Cut-Resistant Sleeves

- 1 size fits most
- Sold individually

Protective sleeve's flexible design with snug fit conforms to the arm for less obstruction while working. Made to help protect against cuts, slashes, abrasion, and heat in fabrication, recycling, canning, assembly, and steel manufacturing, and when handling glass, steel, or sheet metal. Knitted arm guard provides comfort and stretch at the bottom of the sleeve. Select styles' thumbhole offers extra wrist protection while helping keep the sleeve in place.



No. 3CZK7



No. 3NZA1



No. 3TKX3

ANSI/ISEA Cut Level	L	Color	Item No.
Kevlar®/Cotton Blend without Thumbhole			
A2	14 in	Yellow	**3CZK6**
A2	18 in	Yellow	**3CZK8**
Kevlar®/Cotton Blend with Thumbhole			
A2	14 in	Yellow	**3CZK7**
A2	18 in	Yellow	**3CZK9**
Kevlar®/Cotton Blend with Thumbhole and Full-Length Leather Reinforcement			
A3	14 in	Yellow	**3NZA1**
A3	18 in	Yellow	**3NZA2**
Kevlar® without Thumbhole			
—	10 in	Yellow	**4BC20**
A3	10 in	Black	**3TKX3**
A3	14 in	Yellow	**3AM12**
A3	14 in	Black	**3NYZ7**
A3	18 in	Yellow	**6AH87**
A3	18 in	Black	**3NYZ8**
A3	24 in	Yellow	**5AH26**
A3	24 in	Black	**3NYZ9**
Kevlar® with Thumbhole			
—	10 in	Yellow	**5AJ47**
A3	14 in	Yellow	**2AF37**
A3	18 in	Yellow	**2AG29**
A3	24 in	Yellow	**3BC99**

Honeywell

Cut-Resistant Sleeves

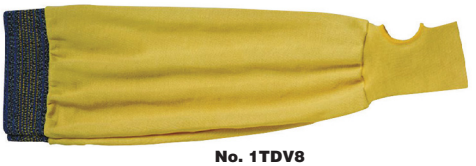
- 1 size fits most
- Sold individually

Ambidextrous sleeves are made of soft, lightweight, high-performance HPPE/stainless fiber blend with improved stretch for longer wear as they offer protection against abrasion, slashes, cuts, and heat. Styles with thumbhole help keep the sleeve in place and provide additional wrist protection.



No. 3CZN2

ANSI/ISEA Cut Level	L	▶CHOOSE: Size	Color	Item No.
Without Thumbhole				
4	14"	Universal	White	**3CZN2**
4	18"	Universal	White	**3CZN5**
With Thumbhole				
4	14"	Universal	White	**3CZN3**
4	18"	Universal	White	**3CZN6**



No. 1TDV8



No. 1FEX9

Cut-Resistant Sleeves

Ansell

- 1 size fits most
- Sold individually

Comfortable, lightweight and durable sleeves combine Kevlar® Armor and standard Kevlar fibers for outstanding protection against slashes, cuts, abrasion, and heat. The thumbhole on select styles helps keep the sleeve in place, extending protection over the wrist.

ANSI/ISEA Cut Level	L	Color	Item No.
Assembler 100 with Thumbhole			
A2	22"	Yellow	**1TDV8**
A2	26"	Yellow	**1TDV9**
ArmorKnit® without Thumbhole			
A4	12"	Blue/Yellow	**1FEX9**
A4	18"	Blue/Yellow	**1FEY1**



NATIONAL SAFETY APPAREL®

Cut-Resistant Twill Armour Wristlets

- Sold by the pair

Lightweight single-layer Kevlar® armour resists cuts, punctures, and abrasion for protection from wrist to elbow. The adjustable hook-and-loop closure provides a secure, comfortable fit.

ANSI/ISEA Cut Level	L	▶CHOOSE: Size	Color	Item No.
Kevlar® Armor				
4	7"	M, L, XL	Yellow	**D2052**

Find Glove sizing information on page 1669; Cut and Abrasion Resistance information on page 1678.



No. 4NMU3

Condor

Cold-Condition Gloves

- Hi-vis orange color

Fully coated, durable PVC provides abrasion resistance and tactility while the foam/jersey liner provides flexibility and dexterity. Smooth finish.

Cuff	Size	Item No.
Knit Wrist	L	4NMU2
Safety	L	4NMU3
Gauntlet	L	4NMU4



No. 4JU99



No. 6AJ76

Ansell

Cold Condition Cut-Resistant Gloves

- For oily environments
- Insulated to -50°F

Warm, weatherproof, grease- and oil-repelling, fully coated gloves resist chemicals and abrasion. The PVC coating stays flexible at low temperatures and provides excellent grip. No. 6AJ76 adds a fluorescent vinyl dip for visibility.

Coating Finish	Cuff	Color	Size	Mfr. Model	Item No.
Winter Monkey Grip®					
Smooth	Safety	Tan	L	23-193	4JY10
Rough	Safety	Tan	L	23-173	4JU99
Winter Hi-Viz™					
Smooth	Knit	Hi-Visibility Orange	L	23-491	6AJ76



MAPA PROFESSIONAL

Thermally Insulated Gloves

- Sold by the pair

Temp-Proof® 333 nitrile gloves have a knitted thermal layer for protection in wet, oily, or steamy conditions, from -22° to 480°F. Inner polymer lining provides good resistance to oils, greases, and hydrocarbons.

Thickness	L	Size	Mfr. Model	Item No.
Heavy Wt.	12 ½ in	9	333	2MYW6



No. D1619

NATIONAL SAFETY APPAREL®

Cryogenic Gloves

- Meet EN 511 standard
- Sold by the pair

These gloves provide excellent thermal protection for hands and arms in ultracold environments (-260° to -300°F) and cryogenic atmospheres. SaferGrip Nos. D1652 to D1654 feature silicone-coated material in the palm for enhanced grip and durability. Waterproof Nos. D1618, D1621, and D1623 provide additional protection against cryogenic splashes. Not intended for immersion in liquid cryogens.

Note: Cryogenic aprons are offered on page 1733.

Description	L	▶CHOOSE: Size	Item No.
Wrist Length Gloves			
Water-Resistant	12"	S, M, L, XL	D1616
Mid-Arm Length Gloves			
Water-Resistant	14 to 15"	S, M, L, XL	D1617
SaferGrip Palm	14 to 15"	S, M, L, XL	D1652
100% Waterproof	14 to 15"	S, M, L, XL	D1618
Elbow Length Gloves			
Water-Resistant	17 to 18"	S, M, L, XL	D1619
SaferGrip Palm	17 to 18"	M, L, XL	D1653
100% Waterproof	17 to 18"	M, L, XL	D1621
Shoulder Length Gloves			
Water-Resistant	26 to 27"	S, L, XL	D1622
SaferGrip Palm	26 to 27"	M, L, XL	D1654
100% Waterproof	26 to 27"	M, L, XL	D1623



MCR SAFETY

Cold-Condition Gloves

Fluorescent, double-dipped PVC gloves feature internal knit wrist and foam/polar fleece liner for warmth. Actifresh® treated for antimicrobial protection and odor control.

Description	Coating Finish	Cuff	Size	Color	Mfr. Model	Item No.
Harbor Master®	Sandy	Knit Wrist	L	Hi-Vis Orange	6714FF	5WUL6

Glove Coating and Lining Materials

Choose from a variety of coating material and liner options.

COATING MATERIALS

Bipolymer—Combination of nitrile and polyurethane that provides durability, abrasion resistance, softness, and dexterity.

Natural Rubber Latex—A natural material with elasticity that provides resistance to cuts, punctures, and slashes with a safe, secure grip.

Nitrile—A synthetic rubber that resists snags, punctures, abrasion, and cuts. Nitrile is suitable for people with latex allergies and provides resistance to petroleum, acids, and aromatic and chlorinated solvents.

Polyurethane—Flexible synthetic material helps protect hands from harmful residues and chemicals while providing grip and abrasion resistance. Allows tactile sensitivity.

PVC—Synthetic thermoplastic polymer provides abrasion resistance, tactility, and dexterity combined with wet and dry grip. Well-suited for applications with moderate to high wear rates.

LINING MATERIALS

Bamboo—Lighter, softer, and more absorbent than cotton or synthetic materials. Breathable material wicks moisture away from the skin. 100% natural bamboo knit shells are inherently strong, antibacterial, biodegradable, and provide UV protection.

Knit—Standard-weight lining allows hands to breathe for cool and comfortable extended-wear protection.

Nylon—Lightweight lining provides high tensile strength and dexterity.

Polyester—Durable, economical lining wicks moisture away from the skin.

Find more information about gloves and glove sizing on page 1669.



No. D1466 No. D1467

SHOWA

Polyurethane-Coated Gloves

Elastic and breathable polyurethane-coated nylon gloves are perfect for precise or delicate operations and provide touch sensitivity and dexterity. Polyurethane coating helps increase grip and abrasion resistance while eliminating finger fatigue associated with finger cots. Coating on palm offers maximum protection and durability while protecting hands from oils and abrasion. Ideal for electronics, laboratories, semiconductors—anywhere cleanliness is essential.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
High Performance					
3	13	Nylon	Gray/Black	S, M, L, XL, 2XL	**D1466**
3	13	Nylon	White	S, M, L, XL, 2XL	**D1467**



No. G9453

Ansell

Polyurethane Palm-Coated Gloves

Help protect hands from harmful residues and chemicals while providing grip and abrasion resistance.

HyFlex®—With an ultralight nylon liner for comfort and sensitivity, these gloves provide enhanced flexibility, tactility, and handling efficiency.
- For dry environments

SensiLite®—Lightweight, snug fit with high tactile sensitivity and dexterity. Lightweight nylon liner wicks moisture away from hands.
- For dry or light oil environment

ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Color	▶CHOOSE: Size	Mfr. Model	Item No.
HyFlex®						
3	Smooth	18	Black/Blue	6, 7, 8, 9, 10, 11	11-618	**G9453**
SensiLite®						
3	Smooth	13	Black	6, 7, 8, 9, 10, 11	48-101	**D1465**



MCR SAFETY

Bipolymer Palm Coated Gloves

- For dry and light oil environments

Ninja® X gloves are durable, comfortable, and flexible. Soft bipolymer coating with nylon shell is treated with Actifresh® to kill bacteria and promote freshness.

Coating Finish	Gauge	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Smooth	15	Black	S, M, L, XL	N9674	**D1522**



No. D1462 No. D1464 No. G6625

Condor

Polyurethane-Coated Gloves

- For dry environments

Lightweight gloves with smooth finish provide excellent dexterity and abrasion resistance. No. D1464 is ¾ dipped for additional protection around the knuckles and back of hand.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
¾ Dip Coating Coverage					
1	13	Nylon	Gray/Black	S, M, L, XL, 2XL	**D1464**
Palm and Fingers Coating Coverage					
1	13	Polyester	Black	XS, S, M, L, XL, 2XL	**G6626**
3	13	Nylon	White	S, M, L, XL, 2XL	**D1461**
3	13	Nylon	Gray/White	S, M, L, XL, 2XL	**D1462**
3	13	Nylon	Gray/Black	S, M, L, XL, 2XL	**J4916**
1	15	Nylon	Gray/Black	XS, S, M, L, XL, 2XL	**G6627**
3	15	Nylon	White	S, M, L, XL, 2XL	**G6628**
3	18	Nylon	Blue/Black	S, M, L, XL	**G6625**



No. H6292 No. D1644

MCR SAFETY

Polyurethane Palm-Coated Gloves

- For dry environments

Flat-dipped palm and finger coating provide grip and dexterity for small parts handling.

Economy—Silicone-free construction with good tactile sensitivity, dexterity, and abrasion resistance. Hems are color-coded by size.

Ninja® Lite—Engineered for a feather-light 2nd skin feeling, with a skintight athletic-grade shell, these gloves offer high abrasion resistance along with dexterity and a great sense of touch.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Economy						
3	13	Nylon	Gray	XS, S, M, L, XL, 2XL	9666	**G6476**
3	13	Nylon	Black	XS, S, M, L, XL, 2XL	9669	**H6292**
Ninja® Lite						
3	18	Nylon	Black/Blue	XS, S, M, L, XL	N9696	**D1644**

Find Glove sizing information on page 1669; Palm Coating and Liner information on page 1688.



MCR SAFETY

UltraTech® PVC-Coated Seamless Knit Gloves

Great touch and dexterity with excellent grip and fit in these palm- and finger-coated gloves. Stretchable knit wrist stays in place with a comfortable fit. The breathable nylon shell is treated with Actifresh® to help minimize odors. The foam coating is made with the proprietary HPT (hydropellent technology) process for cushioning, liquid-repelling characteristics, and a firm wet/dry grip.

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Palm	4	Foam	15	Black/Gray	XS, S, M, L, XL, 2XL	9699	**H6316**



Condor

PVC-Coated Seamless Knit Gloves

- For dry, light oil, and oily environments

Strong, nimble gloves have a lightweight nylon lining with abrasion-resistant dipped coating for good wet/dry grip. Knit wrist helps keep the gloves on snugly.

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Color	▶CHOOSE: Size	Item No.
Palm	4	Foam	15	Black	S, M, L, XL	**J4917**



No. D1645



No. H6530

Ansell

KSR® Textured PVC Coated Gloves

- For dry environments

Very light and well-ventilated, these flexible, comfortable gloves for long-wearing, light-duty work offer excellent grip for handling small and hard-to-hold objects.



Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Full	2	Rough	Cotton	Slip-On	Yellow	7, 7½, 8, 9, 10	22-515	**D1498**

MCR SAFETY

Thermal Lined PVC-Coated Gloves

Ninja® Ice HPT—Soft acrylic microterry liner and full dip are topped by a proprietary palm/fingertip coating formulation that stays soft and flexible in temps. down to -58°F. The liquid-repelling coating, a result of the HPT (hydropellent technology) process, offers a firm wet/dry grip and cushioning to help absorb impacts.

Ninja® Coral—Proprietary shell/polymer technology of the ¾ dipped coating offers dexterity, sense of touch, and protection, with excellent wet and dry grip, good oil grip, and oil resistance. High-visibility nylon shell and insulated acrylic terry lining for warmth.

Coating Coverage	Coating Finish	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Ninja® Ice HPT						
Palm and Fingers	Flat	Nylon/Acrylic Terry	Black	S, M, L, XL, 2XL	N9690	**D1645**
Ninja® Coral						
Full	Rough	Nylon/Acrylic Terry	Black/Orange	M, L, XL, 2XL	N9695	**H6530**

Find Glove sizing information on page 1669; Palm Coating and Liner information on page 1688.


No. J4918


No. G6629


No. J4908

Condor

Rubber Latex Gloves

- For dry and light oil environments

The naturally elastic material provides a safe, secure grip and cut, puncture, and slash resistance. Stretchable knit wrist stays in place with a comfortable fit. Breathable liners wick moisture away from the skin to help keep you dry through a lengthy task.

Select the finish that best suits your needs. Crinkle finish provides abrasion resistance and a safe, sure grip. Foam finish offers more dexterity and flexibility than crinkle.

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
Palm	2	Crinkled	10	Acrylic	Black	S, M, L, XL, 2XL	**J4911**
Palm	3	Crinkled	10	Polyester	Blue/Gray	S, M, L, XL, 2XL	**J4918**
Palm	3	Crinkled	10	Thermal Acrylic	Black/High-Visibility Yellow	S, M, L, XL, 2XL	**G6629**
Palm	3	Crinkled	13	Nylon	Blue/White	S, M, L, XL, 2XL	**G6630**
Palm and Fingers	3	Foam	13	Bamboo	Green/Black	S, M, L, XL, 2XL	**D1776**
Palm	4	Crinkled	10	Polyester	Gray	S, M, L, XL, 2XL	**J4908**


No. E4231


No. D1483


No. J4369


No. H7867

MCR SAFETY

FlexTuff® Series Rubber Latex Gloves

These dipped gloves are shaped like your hand to help reduce fatigue and keep you productive, whether the task requires fine detail or heavy-duty work. Natural rubber provides grip and abrasion resistance, and the palm and finger coating with textured finish gives extra grip and durability.

FlexTuff® 2 are a cost-effective choice, with the comfort, fit, and protection to help handle many industrial, agricultural, and carpentry jobs.

FlexTuff® gloves have a cool, comfy, and strong shell. The crinkle-finish coating provides excellent protection for many applications. Actifresh® treatment helps control lining odors. No. J4370 open-back design is extra cool and comfortable.

FlexPlus™ have an adjustable hook-and-loop wrist closure for precise fit.

FlexGuard® are ¾-dipped for extended protection, and have Actifresh-treated lining.

FlexTherm® insulated gloves provide extra thermal protection without sacrificing manual dexterity in heavier duty tasks.

Description	Coating Coverage	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Flat Dipped						
FlexTuff® 2	Palm	Polyester/Cotton	Gray	S, M, L, XL	9688	**J4375**
FlexTuff®	Palm	Cotton/Polyester	Blue/White	S, M, L, XL	9680	**E4231**
FlexTuff®	Palm	Cotton/Polyester	Blue/Gray	S, M, L, XL	FT300	**J4370**
Flex Plus™	Palm	Polyester/Cotton	Black/Gray	S, M, L, XL	9688V	**D1483**
FlexGuard®	¾ Dip	Cotton/Polyester	Blue/White	S, M, L, XL	FG305	**J4369**
Flat Dipped with Thermal Lining						
FlexTherm®	¾ Dip	Cotton/Polyester/Acrylic	Gray	S, M, L, XL	9690	**H7867**


No. J4390

MCR SAFETY

Memphis™ Flex Rubber Latex Gloves

Great-fitting and great-gripping multipurpose gloves in a breathable, cool material are well-suited for tasks that require high dexterity and comfort. Made with a seamless nylon/polyester shell and foam latex-dipped palm and fingers that offer cut, abrasion, tear, and puncture resistance.

Coating Coverage	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Palm	Foam	13	Nylon	Blue/Gray	S, M, L, XL	96731	**J4464**
Palm	Foam	13	Nylon/Polyester	Black/High-Visibility Yellow	S, M, L, XL	96731HV	**J4390**

Find Glove sizing information on page 1669; Palm Coating and Liner information on page 1688.

Nitrile Coated Seamless Knit Gloves

Condor

- For dry and light oil environments

These light-duty gloves are designed for dexterity, flexibility, a secure grip, and to provide protection from abrasion, snags, cuts, and punctures. The durable synthetic nitrile coating resists grease, oils, and aromatic and chlorinated solvents—and it's suitable for wearers with latex allergies.

Flat-dipping curves the gloves like a hand for reduced hand fatigue and to help stay productive in a wide variety of jobs. The comfortable knit wrist helps keep dirt and debris out of your glove.

Select the coating finish that best suits your needs. Smooth coating offers excellent fingertip and hand sensitivity. Protect your hands from slipping when working with oily and greasy materials, without giving up softness and dexterity.


No. D1512


No. D1515


No. G6624


No. D1539

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
¾ Dip	3	Smooth	13	Nylon	Gray/Black	S, M, L, XL, 2XL	D1515
Palm	3	Smooth	10	Polyester	Black	S, M, L, XL, 2XL	G6623
Palm	3	Smooth	13	Nylon	Green	S, M, L, XL, 2XL	J4909
Palm	3	Smooth	13	Nylon	Gray/White	S, M, L, XL, 2XL	D1512
Palm	4	Smooth	10	Polyester/Cotton	Natural/Blue	S, M, L, XL	G6624
Palm	4	Foam	13	Nylon	Gray/White	S, M, L, XL, 2XL	D1539
Palm	4	Smooth	13	Polyester	Blue/White	S, M, L, XL, 2XL	H6884

HyFlex® Nitrile Coated Gloves

Ansell

Style 11-800 and 11-801—Lightweight, flexible gloves allow dexterity with protection and grip in precision assembly and general handling. Increased stretch and flexibility in high-stress areas let the hand move more freely with less fatigue and more comfort, boosted by the excellent breathability. Nylon spandex elastic lessens the risk of latex allergy, and the silicone-free materials reduce potential product contamination.

- For dry environments

Style 11-900—Oil-repellent industrial work gloves are made for secure handling, dexterity, protection, and comfort. They offer a dry grip and abrasion resistance in moderately oily manufacturing and maintenance tasks.

- For dry and light oil environments

Style 11-840—Lightweight knit dipped gloves are a good choice for those who move from task to task in a busy workday. The proprietary FORTIX® nitrile foam coating boasts superior abrasion resistance. Its boosted breathability lets your hands stay cooler and drier with less sweat. The second-skin liner is shaped to the natural contours of the hand for added comfort, superior tactility, and greater dexterity.

- For dry environments

Style 11-926—Enhanced flexibility, oil grip, and tactility, plus improved oil repellence and wear life, are designed into these lightweight gloves. Fine-gauge nylon fiber spandex liner is ¾-dipped for full back-of-finger protection.

- For oily environments


No. D1547


No. D1516


No. H6519


No. H7877

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
Style 11-800 and 11-801							
Palm	3	Foam	15	Nylon	Gray/White	6, 7, 8, 9, 10, 11	D1547
Palm	3	Foam	15	Nylon	Black/Gray	6, 7, 8, 9, 10, 11	D1548
Style 11-900							
Palm	4	Smooth	15	Nylon	Blue/White	6, 7, 8, 9, 10	D1516
Style 11-840							
Palm	4	Rough	15	Nylon/Spandex	Black/Gray	6, 7, 8, 9, 10, 11	H6519
Style 11-926							
¾ Dip	3	Rough	18	Nylon/Spandex	Purple	6, 7, 8, 9, 10, 11	H7877

SHOWA

Smooth Nitrile Coated Gloves

Nitri-Flex® Lite—Flat-coated gloves provide a tacky grip for wet and dry applications. Lightweight nitrile with a seamless nylon liner. Designed for comfort, flexibility, and dexterity. Perfect for small parts assembly, inspection, shipping and receiving, light fabrication, and material handling.

Showa® 376—Thin nitrile coating provides comfort, sensitivity, and splash protection against a wide range of chemicals. Elastic wrist holds glove in place. Superior grip in oily applications makes it ideal for dry and light oily environments.

Atlas®—Designed with coating that provides optimum flexibility yet resists cuts and abrasion. Lightweight with ventilated back for breathability. Provides easy movement with excellent dry grip in general-purpose applications.


No. D1517


No. G2406


No. H5472

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
Nitri-Flex® Lite					
3	13	Nylon	Green	S, M, L, XL	D1517
Showa 376					
6	13	Knit	Black/Blue	S, M, L, XL, 2XL	G2406
Atlas®					
4	13	Nylon	Gray/Black	S, M, L, XL, 2XL	H5472
4	13	Nylon	Black/Blue	S, M, L, XL	D1519

SHOWA

Natural Rubber Latex Coated Gloves



Natural elastic rubber material provides resistance to cuts, punctures, and slashes with a safe, secure grip. Coating on palm, fingertips, and thumb crotch minimizes wear and provides safe, secure grip. Standard-weight lining allows hands to breathe for cool and comfortable extended-wear protection. Ideal for construction, assembly, maintenance, material handling, and utilities.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
4	10	Polyester/Cotton	Blue/Gray	S, M, L, XL, 2XL	D1485

Find Glove sizing information on page 1669; Palm Coating and Liner information on page 1688.



No. 4NMT5



No. D1782

Condor

Nitrile Coated Gloves

- For dry and light oil environments

Heavy-duty synthetic coating provides a dry grip, excellent grease and oil resistance, plus snag, cut, and puncture resistance. Comfortable contoured design. Cotton lining helps keep hands dry and comfy. Natural/blue color.

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Cuff	▶CHOOSE: Size	Item No.
¾ Dip	3	Smooth	Knit Wrist	S, M, L, XL	D1781
¾ Dip	3	Smooth	Safety	L	4NMT5
Full	3	Smooth	Knit Wrist	S, M, L, XL	D1782
Full	3	Smooth	Safety	L	4NMU1



No. D1531



No. D1533



No. D1536

Ansell

Nitrile Coated Gloves

- For dry and light oil environments

Easy Flex®—Finger and palm coating lets the back of the hand breathe while protecting the working area. Gloves are snag-, cut-, and puncture-resistant. The nitrile coating repels oil and grease for a good grip. Gloves mold to the shape of the hand for a more relaxed, comfortable fit.

HyLite®—Comfortable natural hand shape is easy to wear for a long workday. The proprietary nitrile coating is flexible, repels oil, and has good mechanical resistance—to abrasion, cuts, punctures, and tears. This alternative to cotton, light leather, and PVC is silicone-free to help ensure metal sheets stay clean.

Hycron®—Heavy-duty coating is a proprietary nitrile formulation that offers superior resistance to snags, abrasion, and punctures. These rugged gloves are stronger and more flexible than PVC and 3 times more durable than heavy-duty leather. They provide an excellent grease/oil barrier and do not degrade like leather or cotton.

Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Easy Flex®						
¾ Dip	3	Foam	White/Green	7, 8, 9, 10	47-200	D1531
Hylite®						
Full	4	Sandy	Blue/White	7, 8, 9, 10	47-402	D1533
Hycron®						
¾ Dip	4	Smooth	Blue/White	8, 9, 10	27-600	D1536
Full	3	Smooth	Blue	9, 10	27-805	J4499





No. 48GM43

MCR SAFETY

No. J4468

Nitrile Coated Gloves

- For dry and light oil environments
- Meet EN 388 standard

Tough everyday work gloves resist abrasion, snags, and punctures with a soft interlock lining that stays comfortable during an extended task. No. J4468 lining is treated with Actifresh® to resist bacterial buildup, molds, and mildew. Natural/blue color.

Coating Finish	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Flat	Interlock	Knit Wrist	Blue/Natural	S, M, L, XL	97980	J4468
Smooth	Jersey	Safety Cuff	Blue/Natural	L	97960	48GM42
Rough	Jersey	Safety Cuff	Blue/Natural	L	97962	48GM43





Ansell

No. D1503

Hynit® Nitrile Coated Gloves

- For dry environments

Remarkably flexible gloves have a fully impregnated, proprietary nitrile coating that provides excellent abrasion resistance and repels oil, grease, and dirt. Blue color.

Description	ANSI/ISEA Abrasion Level	Coating Finish	Lining	▶CHOOSE: Size	Mfr. Model	Item No.
Slip-On Cuff	3	Smooth	Polyester/Cotton	7, 8, 9, 10	32-105	D1503
Slip-On Cuff with Perforated Back	3	Smooth	Polyester/Cotton	7, 8, 9, 10	32-125	D1504

MCR SAFETY

Nitrile Coated Drivers Glove

- For dry environments

Easy-wearing supported, cut-and-sewn gloves have an abrasion-resistant nitrile coating. The cool, comfortable canvas back is shirred to stay on without inhibiting movement.



Coating Coverage	ANSI/ISEA Abrasion Level	Coating Finish	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Palm and Fingers	3	Flat	Jersey	Burgundy/ White	S, M, L, XL	9740	J4454

Find Glove sizing on page 1669; find Cut-Resistant Mechanic's Gloves on page 1684.

Mechanic's Gloves

Condor

Hard-working gloves offer protection from impact, nicks, and abrasion without sacrificing dexterity or grip when handling tools and parts. Neoprene pads help shield your knuckles. Breathable spandex/neoprene backing gives a snug fit and comfort for the long haul. Easily adjusted hook-and-loop closure, except Utility gloves have a shirred elastic wrist.

▶CHOOSE: Color	▶CHOOSE: Size	Item No.
General Use		
Black, Black/Blue	S, M, L, XL, 2XL	**J4132**
Fingerless		
Black	S, M, L, XL, 2XL	**J7290**



No. J4132



No. J7290

Mechanic's Gloves

MECHANIX WEAR

FastFit®—Feature an ergonomically designed 2-pc. palm for a more comfortable fit, plus moisture-wicking TrekDry® material that helps keep your hands cool and dry. Elastic cuff can provide a secure fit and helps ease donning and doffing. Reinforcement panels in high-wear areas help increase durability for long life. Ideal for light-duty tasks such as automotive maintenance and repair, equipment operation, and manufacturing/assembly activities.

The Original®—Durable synthetic leather palm can protect hands from hot surfaces and materials. Form-fitting gloves have a 2-way stretch top and low-profile thermoplastic rubber wrist hook-and-loop closure. Reinforced thumb and fingertips help increase protection and reduce wear.

Description	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
FastFit®	Shirred	Black	S, M, L, XL, 2XL	**G6911**
FastFit®	Elastic	Red, Blue, Black	S, M, L, XL, 2XL	**G2415**
The Original®	Hook-and-Loop	Black/White, Red/White, Blue/White, Black/Black	S, M, L, XL, 2XL	**D0728**


FastFit®
No. G2415



The Original®
No. D0728

Mechanic's Gloves

DironClad PERFORMANCE WEAR

EXO® Modern—Made for outdoor performance and protection, with neoprene impact guards on the knuckles and materials that stand up to moisture. Hook-and-loop closure provides a snug fit. Terrycloth sweat wipe.

No. J4110 utility medium-duty glove has a water-repellent coating for extra moisture protection.

No. J4114's full goatskin leather palm won't shrink or get hard and crinkly after wetting. Goatskin finger reinforcements provide maximum durability and extended wear.

EXO® Motor—Full-finger gloves with terrycloth sweat wipe.

No. J4106, Motor Utility slip-on glove features an EXO embossed synthetic leather palm and suede cuff puller. The spandex back material offers outstanding fit and flexibility.

No. J4117, Motor Utility Leather-reinforced-palm lightweight shop glove has an easy-access cuff.

No. J4108, Motor Pro glove's neoprene knuckles help protect against impact from slipped wrenches and other tools. Snug hook-and-loop closure.

Tuff-Chix™—Seamless fingertip design for comfort. Synthetic leather padded palm. Easy-on cuff design.

Workforce™—TPR system protects knuckles from impact. Synthetic leather reinforcements. Sweat wipe located on the back of thumb. Features slip-fit cuff.

Workcrew®—Reinforced synthetic leather in critical areas boosts durability. Features Airprene® wrist closure and terrycloth sweat wipe on back of thumb. Lightweight and breathable.

Heavy Utility™—Features ultra-abrasion-resistant, double-stitched DuraClad™ palm and fingertip pads.

Framer™—Features 3 open fingertips and rugged protection for the rest of your hand. TPR knuckle protection, synthetic leather palm and fingers, sweat wipe on the back of the thumb, and hybrid cuff system with quick-release safety feature.

Wrenchworx®—Double-stitched padded palm is treated with PTFE for oil and water resistance. Saddle and fingertips are reinforced.



No. J4110



No. J4114


No. J4106



No. J4108


No. D1009

Description	Color	▶CHOOSE: Size	Item No.
EXO® Modern Utility	Black/Grey	S, M, L, XL, 2XL	**J4110**
EXO® Modern Goatskin Leather Palm	Black/Gold	S, M, L, XL, 2XL	**J4114**
EXO® Motor Utility	Black/Green	S, M, L, XL, 2XL	**J4106**
EXO® Motor Utility Leather Reinforced Palm	Black/Green	S, M, L, XL, 2XL	**J4117**
EXO® Motor Pro	Black/Green	S, M, L, XL, 2XL	**J4108**
Tuff-Chix™	Pink	S, M, L	**D1009**
Workforce™	Black	S, M, L, XL, 2XL	**G6887**
Workcrew®	Black	S, M, L, XL, 2XL	**G6886**
Heavy Utility™	Black	S, M, L, XL, 2XL	**G6884**
Framer®	Black	S, M, L, XL, 2XL	**G6882**
Wrenchworx®	Black	S, M, L, XL, 2XL	**H4223**

Find Glove sizing on page 1669; find Cut-Resistant Mechanic's Gloves on page 1684.



Condor

Impact-Resistant Mechanic's Gloves

Padded palm, and TPR molded knuckle and fingers provide maximum hand protection. Spandex-blend back of hand allows easy movement. Synthetic leather allows tactile sensitivity. Black color.

▶CHOOSE: Closure Type	▶CHOOSE: Size	Item No.
Hook-and-Loop, Elastic	S, M, L, XL, 2XL	**J7287**



Mechanic's Gloves

Proprietary silicone fused palm and index finger give you a sure grip to keep from dropping your tools. The EXO® Motor Grip style also features a TPR cuff puller, neoprene knuckle pads, and snug-fitting hook-and-loop closure. Black color.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
EXO® Motor Grip	S, M, L, XL, 2XL	EXO-MGG	**J4109**



No. J4125



No. J4118



No. H4220

Leather Palm Mechanic's Gloves

EXO® Motor Impact—Soft, pliable, and abrasion-resistant genuine goatskin leather palm. Full back-of-hand padding. TPR cuff puller and hook-and-loop closure.

EXO® Motor Pro—High-quality leather palm for grip. Neoprene knuckles help protect against impact. Hook-and-loop closure.

Cowboy—Made of washable Bullwhip® leather, with Duraclad® abrasion-resistant reinforcements and TPR knuckle protection. Slip-fit cuff.

Description	Color	▶CHOOSE: Size	Mfr. Model	Item No.
EXO® Motor Impact				
Goatskin	Black/Gold	S, M, L, XL, 2XL	EXO-MIGL	**J4125**
EXO® Motor Pro				
Goatskin	Black/White	S, M, L, XL, 2XL	EXO-MPLW	**J4118**
Cowhide	Black/Gold	S, M, L, XL, 2XL	EXO-MPLC	**J4121**
Goatskin	Black/Gold	S, M, L, XL, 2XL	EXO-MPLG	**J4119**
Deerskin	Black/Gold	S, M, L, XL, 2XL	EXO-MPLD	**J4120**
Cowboy				
Goatskin	Tan	S, M, L, XL, 2XL	RWC2	**H4220**



Package Handling Gloves

Box Handler® all-purpose package-handling design has a sticky grip with super-tacky palm and fingertips. Breathable, with synthetic leather palm and knuckle impact protection. Features terry sweat wipe.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
Box Handler®	S, M, L, XL, 2XL	BHG2	**G6881**



No. G6883



No. H4217



No. J4112

Impact-Resistant Mechanic's Gloves

General Utility™—Foam-padded inner palm with double-stitched synthetic leather reinforcements on palm, fingers, and saddle.

Vibration Impact—PTFE-treated palm repels oil and water and has 6 gel-padded reinforcements. Neoprene knuckle protection.

EXO® Motor Impact—Features full back-of-hand padding with a breathable expansion chamber. Foam-padded, embossed synthetic leather palm, reinforced fingertips. TPR cuff puller and hook-and-loop closure.

Ranchworx™—Made of Bullwhip® leather with Kevlar® reinforced saddle and thumb. Seamless fingertips and flexible TPR finger and knuckle protection with extended cuff.

Super Duty—Flexible Duraclad® reinforcements cover the palm, fingers, thumb, and saddle. Hook-and-loop wrist strap and terry sweat wipe. TPR protection for the back of the hand and fingers.

EXO® Project Impact—Vibration-absorbing palm, TPR impact protection, and a breathable expansion chamber. TPR cuff puller, and a hook-and-loop closure secures it to your wrist.

▶CHOOSE: Color	▶CHOOSE: Size	Item No.
General Utility™		
Black	S, M, L, XL, 2XL	**G6883**
Vibration Impact		
Black	S, M, L, XL, 2XL, XS	**H4217**
EXO® Motor Impact		
Black/Green	S, M, L, XL, 2XL	**J4112**
Black/Blue, Black/Red	S, M, L, XL, 2XL	**J4126**
Ranchworx™		
Tan	S, M, L, XL, 2XL, 3XL	**H4221**
Super Duty		
Black	S, M, L, XL, 2XL	**G6885**
EXO® Project Impact		
Tan/Green	S, M, L, XL, 2XL	**J4124**

Find Glove sizing on page 1669; find Cut-Resistant Mechanic's Gloves on page 1684.



Hi-Vis Yellow



Hi-Vis Orange

High-Visibility Mechanic's Gloves

Bright colors help promote awareness and compliance with these general purpose gloves. Spandex and neoprene construction is designed to reduce hand fatigue and injuries and provide excellent grip, glexibility, comfort, and abrasion resistance. Utility gloves have a convenient elastic closure. Pro gloves have a hook-and-loop closure for secure fit.

▶CHOOSE: Color	▶CHOOSE: Size	Item No.
Hi-Vis Yellow, Hi-Vis Orange	S, M, L, XL, 2XL	**J7285**



EXO®
No. J4107



KONG®
No. H6513



I-Viz®
No. H4218

High-Visibility Mechanic's Gloves

Reflective accents and hi-viz colors help boost visibility and safety. Knuckles have impact protection.

EXO® Utility and Abrasion—Performance-fit gloves have a convenient terry-cloth sweat wipe on the thumb. Light-duty Utility style has an open cuff for easy access. Abrasion-Resistant style employs proprietary Duraclad® reinforcements, which are 8 times more durable than traditional leather. Secure hook-and-loop wrist closure.

KONG® Operator—Lightweight gloves are designed for high dexterity in crane and machinery operation, mechanic work, and construction. The synthetic-leather palm, breathable spandex back, and reinforcements in critical areas are high-visibility colors.

I-Viz® Reflective Utility—Padded, synthetic leather-palmed gloves have a reinforced saddle, reflective zones on fingers and back of hand, and hook-and-loop closure.

Description	▶CHOOSE: Color	▶CHOOSE: Size	Mfr. Model	Item No.
EXO® Utility	High-Visibility Orange, High-Visibility Yellow	S, M, L, XL, 2XL	EXO-HSY	**J4107**
EXO® Abrasion	Hi-Viz Orange/Yellow	S, M, L, XL, 2XL	EXO-HZA	**J4113**
KONG® Operator	Hi-Vis Yellow	S, M, L, XL	KOPR	**H6513**
I-Viz® Reflective Utility	Hi-Viz Green	S, M, L, XL, 2XL	IVG2	**H4218**
	Hi-Viz Orange	S, M, L, XL, 2XL	IVO2	**H4219**



Duraclad® Palm Hand Rigger
No. J5684







Duraclad® Palm Hand Rigger
No. J5686



Duraclad® Palm Hand Rigger
No. J5685



High-Visibility Impact-Resistant Mechanic's Gloves

Designed with highly visible colors and rugged construction, including a micro-suede reinforced thumb, for improved safety, fit, and durability. Low-profile, high-impact gloves are also specifically designed with extra protection on the fingers, thumb, knuckles, and metacarpal bones to protect your hands from bumps, scrapes, and scratches without sacrificing dexterity.

Duraclad® Palm Hand Rigger—No. J5686 includes 150g of insulation for colder weather environments. No. J5685 features a Kevlar®-reinforced palm for improved cut resistance.

- Duraclad overlay on palm and thumb saddle
- Fluorescent visibility impact protectors
- Microsuede palm with Duraclad overlay

Palm Material	Palm Construction	Color	▶CHOOSE: Size	Item No.
Duraclad® Palm Hand Rigger				
PVC	Double Layer	Yellow	S, M, L, XL, 2XL, 3XL	**J5684**
PVC	Triple Layer	Blue	S, M, L, XL, 2XL, 3XL	**J5686**
Kevlar®	Triple Layer	Green	S, M, L, XL, 2XL, 3XL	**J5685**



FastFit®
No. H3984



The Original™ Hi-Viz
No. H3986

General Utility High Visibility Mechanic's Gloves

The 3M™ Scotchlite™ reflective ink helps increase visibility. Gloves have form-fitting TrekDry® upper material to help keep your hands dry and comfortable. Reinforcement panels in high wear areas for long life.

FastFit®—The anatomically cut thumb area of the palm provides you a comfortable fit, while the elastic cuff eases donning and doffing. Machine washable.

The Original™ Hi-Viz—Seamless palm for a comfortable fit and a hook-and-loop closure secures glove to your wrist.

Description	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
FastFit®	Elastic	Hi-Vis Yellow	S, M, L, XL, 2XL	**H3984**
		Hi-Vis Orange		**H3985**
The Original™ Hi-Viz	Hook-and-Loop	Hi-Vis Yellow		**H3986**

Find Glove sizing on page 1669; find Cut-Resistant Mechanic's Gloves on page 1684.



EXO®
No. J4116



Industrial Impact
No. J4184



KONG®
No. H4222



Vibram®
No. J4901

High-Visibility Impact-Resistant Mechanic's Gloves

EXO® Industrial Athlete Hi-Viz Impact—Performance-fit gloves for demanding jobs have a vibration-reducing reinforced palm and all-around impact protection, plus reinforced fingertips. Reflective accents and hi-viz colors help boost visibility and safety. Secure hook-and-loop wrist closure.

Industrial Impact Cotton Corded—The cotton cording provides all-around grip at an economical price for oil and gas, mining, demolition, heavy construction, and rigging applications.

Industrial Impact Rigger—Duraclad® reinforced palm, rope channel, and thumb boost grip and durability for heavy industrial environments, oil extraction and refinining, mining, demolition, and rigging.

KONG® Dexterity Super Grip—Proprietary Diamondclad® silicone-fused palm offers nonslip performance and maximum dexterity on wet and oily surfaces. Designed for complete hand and finger impact protection in rugged oil and gas environments. Abrasion-resistant materials are used in the reinforced saddle and thumb.

KONG® Oil and Waterproof—Cold condition gloves also are windproof for protection and comfort in miserable conditions on the rig or in the fields. Breathable material lets sweat evaporate to help keep hands dry and warm. The proprietary palm material offers superior abrasion resistance. Hi-viz palm and back of hand, multilayer microfleece insulation, and impact-resistant knuckle, finger, and metacarpal protection round off the rugged design.

Vibram® Rigger—Antistatic, antisaturation gloves are made for extreme durability and maximum grip when handling ropes and cables. The design features a 3-D beveled rope channel to boost directional grip, and impact-protective base of palm.

Vibram® O.B.M. and O.B.M. XOR—The Oil-based Mud Palm (O.B.M.) line is made for dirty, greasy jobs, with a tread pattern designed to channel high-viscosity lubricant and cold-temperature flexibility. The impermeable palm has an impact-protective base. Fingertips are designed for maximum grip on saturated tools and equipment. Maximum dexterity also is designed into these extremely durability gloves. O.B.M. gloves have PTFE protection on shell fabrics for increased resistance to oil and water. O.B.M. XOR (Extreme Oil Resistance) have a nitrile-coated cotton shell good for saturated environments.

Description	Color	▶CHOOSE: Size	Item No.
EXO® Industrial Athlete Hi-Viz Impact	Black/High-Visibility Orange	S, M, L, XL, 2XLS, M, L, XL, 2XL	**J4116**
	Orange/High-Visibility Yellow	S, M, L, XL, 2XLS, M, L, XL, 2XL	**J4115**
Industrial Impact Cotton Corded Palm	Green/Red	S, M, L, XL, 2XL, 3XL	**J4184**
Industrial Impact Rigger	Black/Green	S, M, L, XL, 2XL, 3XL	**J4906**
KONG® Dexterity Super Grip	Green/Yellow	S, M, L, XL, 2XL	**H4222**
KONG® Oil and Waterproof	Blue/Yellow	M, L, XLM, L, 2XL	**H4227**
Vibram® Rigger	Black, Green, Hi-Vis Yellow	S, M, L, XL, 2XL, 3XL	**J4901**
Vibram® O.B.M.	Black, Hi-Vis Yellow, Red	S, M, L, XL, 2XL, 3XL	**J4898**
Vibram® O.B.M. XOR	Green, Hi-Vis Yellow, Orange	S, M, L, XL, 2XL, 3XL	**J4900**



High-Visibility Impact Resistant Mechanic's Gloves

Feature 3M™ Scotchlite™ reflective ink to increase visibility and have moisture wicking TrekDry® material to help keep your hands dry. Thermal plastic rubber (TPR) helps protect knuckle and fingers, while Poron® XRD® palm padding absorbs impacts. Rubberized tacky material on the thumb and index finger help improve your grip.

Description	Cuff	Color	▶CHOOSE: Size	Item No.
M-Pact®	Hook-and-Loop	Hi-Vis Green	Universal, M, L, XL, 2XL	**H3975**



No. H4228



No. H4225



No. H4224

Insulated Mechanic's Gloves

- Black color

Summit™ Reflective Fleece—Windproof 3-layer fleece is stretchable, durable, and breathable. Reflective logos enhance nighttime visibility. Reinforced palm and fingers provide durability and grip in all conditions.

Cold Condition®—3-layer construction with microfleece liner. PTFE-treated shell repels water and oil. Reinforcements on palm, fingers, and saddle. Neoprene knuckle and 2¼" cuffs. No. H4226 is waterproof and windproof with a breathable insert.

Tundra®—3-layer waterproof insulation is waterproof and windproof. 3M insulation for warmth. Kevlar® reinforcements on fingers, thumb, and saddle. Rugged shell with impact-resistant knuckles. Extended cuff with hook-and-loop closure.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
Summit™ Reflective Fleece	S, M, L, XL, 2XL	SMB2	**H4228**
Cold Condition®	S, M, L, XL, 2XL	CCG2	**H4224**
Cold Condition® Waterproof	S, M, L, XL, 2XL	CCW2	**H4226**
Tundra®	S, M, L, XL, 2XL	CCT2	**H4225**

Find more information about gloves and glove sizing on page 1669.

Condor

Task & Chore Gloves

Task and chore gloves are lightweight gloves used to keep hands clean and protect against scrapes and abrasions in low-risk environments. They are used in general warehouse and shipping tasks, landscaping, light assembly, general maintenance, and light automotive work.

Coating Finish	Coating Coverage	Color	Size	Item No.
Canvas with PVC Coating				
Mediumweight				
Dotted	Palm, Index Finger, and Thumb	High-Visibility Orange/Black	S, L	**D1413**
Heavyweight				
Dotted	Palm, Index Finger, and Thumb	White/Black	S, L	**D1411**
Canvas Uncoated				
Lightweight				
None	Uncoated	Beige	S, L	**D1408**
Mediumweight				
None	Uncoated	Beige	S, L	**D1409**
None	Uncoated	High-Visibility Green, High-Visibility Orange	L	**H0580**
Jersey with PVC Coating				
Dotted	Palm	Brown	S, L	**D1427**
Jersey Uncoated				
Lightweight				
None	Uncoated	Brown	S, L	**D1416**
None	Uncoated	White	S, L	**D1415**
None	Uncoated	Brown	S, L	**D1425**
Mediumweight				
None	Uncoated	Brown	S, L	**D1432**
None	Uncoated	Brown	S, L	**D1423**
Seamless Knit with PVC Coating				
Heavyweight				
Dotted	Palm	Beige/Blue	S, L	**D1454**
Dotted	Palm	Beige/Black	S, L, XL	**D1448**
Dotted	Full	Beige/Black	XS, S, L, XL, 2XL	**D1772**
Stripes	Palm	Beige/Blue	S, L	**D1455**
Dotted	Full	High-Visibility Yellow/Black	XS, S, L, XL	**D1768**
Dotted	Full	High-Visibility Orange/Black	XS, S, L, XL	**D1769**
Honeycomb	Full	Orange	S, L, XL	**D1451**
Seamless Knit Uncoated				
Lightweight				
None	Uncoated	Beige	S, L	**D1437**
Mediumweight				
None	Uncoated	Beige	XS, S, L, XL	**D1441**
None	Uncoated	White	XS, S	**D1439**
Heavyweight				
None	Uncoated	Gray	S, L	**D1436**
None	Uncoated	White	S, L	**J4936**
None	Uncoated	Gray	XS, S, L, XL	**D1442**
None	Uncoated	Beige	S, L	**D1446**
None	Uncoated	Beige	S, L, XL	**D1767**
None	Uncoated	White	S, L, XL	**D1444**



No. D1411



No. D1408



No. D1427



No. D1416



No. D1454



No. D1437



No. 2HEU9

Condor

Anti-Vibration Glove Liners

Just wear under your gloves for an added layer of protection against impact and vibration. EN388 and EN420 Certified.

Back Material	Color	Size	Item No.	Pkg. Qty.
Cotton, Polymer	Blue	M	**2HEU9**	1 Pair
		L	**2HEV1**	
		XL	**2HEV2**	



No. 2UUA3

Condor

Fingerless Glove Liners

Stretchable poly/cotton glove liners are worn under gloves to absorb perspiration and wick away moisture. Gel palms absorb impact. EN388 and EN420 Certified.

L	Material	Color	Size	Item No.	Pkg. Qty.
7"	Poly/ Cotton	Natural	Universal	**2UUA3**	100
12"				**2UUA4**	



Condor

Thermal Glove Liner

- One size fits most

Thermostat®/Lycra® blend removes perspiration and keeps warm, dry air next to the skin. Excellent for cold food processing, cold storage activities, and commercial fishing.

▶CHOOSE: Color	Item No.
Navy, White	**H0554**

Find more information about gloves and glove sizing on page 1669.



A.



B.



C.



D.



E.



F.



G.



H.



I.



J.



K.

Coated String Knit Gloves

Seamless construction with knit wrist for a close, comfortable fit and enhanced dexterity.

A. to C., Palm-Coated—Available with a raised dot pattern on the palm side or flat-dipped pattern on the palm and sides of the fingertips. Flat-dipped gloves conform to the hand and resist degradation through stretching.

D. to K., Double-Sided Coating—Gloves coated on both sides are fully reversible for extended wear. Available with a raised dot pattern, flat dipped, or with a fish net pattern.

Key	Material	Coating Material	Coating Finish	Color	▶CHOOSE: Size	Item No.
Palm-Coated						
A	Polyester/Cotton	PVC	Dotted	Beige/Black	S, L, XL	**D1448**
B	Polyester/Cotton	PVC	Smooth	Red/White	S, L, XL	**D1771**
C	Polyester/Cotton	Nitrile	Flat	White/Rust	S, L, XL	**D1449**
Double-Sided Coating						
D	Polyester/Cotton	PVC	Smooth	Beige/Black	S, L	**D1452** *
E	Polyester/Cotton	PVC	Dotted	Beige/Black	XS, S, L, XL, 2XL	**D1772**
F	Polyester/Cotton	PVC	Dotted	Beige/Blue	S, L	**D1454**
G	Polyester/Cotton	PVC	Stripes	Beige/Blue	S, L	**D1455**
H	Acrylic	PVC	Dotted	High-Visibility Yellow/Black	XS, S, L, XL	**D1768**
I	Acrylic	PVC	Dotted	High-Visibility Orange/Black	XS, S, L, XL	**D1769**
J	Polyester/Cotton	Nitrile	Dotted	Beige/Red	S, L, XL	**D1457**
K	Acrylic/Polyester	PVC	Honeycomb	Orange	S, L, XL	**D1451**

** Fingerless*



No. D1767



No. D1436



No. D1766

String Knit Gloves

Ambidextrous with seamless construction. Knit stretches for fit and breathability.

Cotton—Absorb perspiration and moisture. Prevent chafing.

Polyester—For use in electronics industry, painting, and delicate parts handling.

Polyester/Cotton—Allow comfort while reducing hand fatigue. No. D1436 is constructed with recycled poly/cotton material.

Gauge	Color	▶CHOOSE: Size	Item No.	Pkg. Qty.
Cotton				
7	Beige	S, L, XL	**D1767**	1 Pair
Polyester				
7	White	S, L, XL	**D1444**	1 Pair
13	White	XS, S	**D1439**	1 Pair
Polyester/Cotton				
7	Beige	XS, S, L, XL	**D1441**	1 Pair
7	White	S, L	**D1765**	144 Pair
7	Gray	S, L	**D1436**	1 Pair
7	Gray	XS, S, L, XL	**D1442**	12 Pair
7	Beige	S, L	**D1446**	1 Pair
13	Beige	S, L	**D1437**	1 Pair
Polyester/Cotton Fingerless Design				
7	Beige	S, L, XL	**D1766**	1 Pair



Inspection Gloves

Keep hands cool and dry. Durable white gloves absorb perspiration. White color.

Description	Fabric Weight	Size	Item No.	Pkg. Qty.
Cotton				
Unhemmed	Light	Men's One Size Fits Most	**4JC97**	12 Pr.
		Women's One Size Fits Most	**4JC98**	12 Pr.
	Medium	Men's One Size Fits Most	**4JC99**	12 Pr.
		Women's One Size Fits Most	**4JD01**	12 Pr.
	Heavy	Men's One Size Fits Most	**4JD02**	12 Pr.
		Women's One Size Fits Most	**4JD03**	12 Pr.
Polyester				
Hemmed	Medium	Women's S	**4JD10**	12 Pr.
		Women's M	**4JD09**	12 Pr.
		Women's L	**4JD08**	12 Pr.
		Men's M	**4JD12**	12 Pr.
		Men's L	**4JD11**	12 Pr.
Nylon				
Hemmed	Heavy	Men's One Size Fits Most	**4JD15**	12 Pr.
		Women's One Size Fits Most	**4JD14**	12 Pr.



Fingertip Coated Seamless Knit Gloves

Low-lint nylon material and seamless construction with a polyurethane fingertip coating for greater dexterity in light assembly, manufacturing, and small part handling applications.

Coating Material	Coating Coverage	▶CHOOSE: Size	Item No.
Polyurethane	Fingertips	S, M, L, XL, 2XL	**J4914**

Find more information about gloves and glove sizing on page 1669.

Leather Glove Information

GRADE/MATERIALS

Leather Grade—As a natural product, leather material can vary in color, thickness, and response to water, heat and cold. Grading starts from the top with A, which usually is the softest and has very few surface flaws. Other grades can be a little tougher and are likely to have more surface flaws. Leather cut from the side and shoulder of the animal offers high durability. Full- or top-grain leather comes from the external side of the hide and is typically smooth. Split leather or suede is more economical, but not as durable as grain leather.

Cowhide—Excellent abrasion resistance, breathability, and thermal protection.

Deerskin—Features the highest tensile strength. Soft, flexible, and long wearing. Suitable for jobs where optimal dexterity is important.

Elkskin—Offers the best dexterity, reduces hand fatigue, resistant to oils and moisture, and does not crack or stiffen.

Goatskin—Most abrasion resistance. Soft and pliable. Twice as durable as cowhide and pigskin materials.

Pigskin—High abrasion resistance and heat protection. Material is flexible and won't stiffen when wet. Suitable for jobs that are exposed to moisture.



THUMB STYLES

Keystone—1-pc., inset thumb is double-sewn with double thickness at critical wear points. Provides extra comfort and allows extra wear.

Wing—Thumb design extends to the side of the hand and offers comfortable gripping and free thumb movement. Provides extended wear.

Straight—Cut as 1 piece extending straight from the wrist. Less material than the similar wing thumb, reducing the cost of the glove.



CUT STYLES

Gunn—Seamless back for greater comfort; the palm side of the middle 2 fingers is sewn into the palm at the base of the middle 2 fingers. Reinforced seam with a welt increasing gloves' durability and wear life.

Clute—Parallel seams on back of glove made from a continuous piece of leather for greater ease of movement, comfortable gripping, and a roomy fit.

CUFF STYLES

Knit Wrist



Safety—2½" cuff length



Gauntlet—Extended 4½" cuff



Slip-On



Shirred Wrist



Leather Driver's Gloves

Condor

- Gunn cut
- Shirred wrist

These comfortable work gloves cover the whole hand with excellent abrasion resistance, breathability, and thermal protection. Most are stitched with strong polyester thread. No. H6336 Kevlar® stitching is extra-strong, plus its stretch resistance helps keep the seam tight.

Leather Palm Material	Leather Palm Type	Thumb Style	Color	▶CHOOSE: Size	Item No.	
A, B Grade						
Cowhide	Full-Grain	Straight	White	S, M, L, XL, 2XL	**D1594**	
Cowhide	Full-Grain	Keystone	Yellow	S, M, L, XL	**D1648**	
Cowhide	Full-Grain	Keystone	Yellow	S, M, L, XL	**D1649**	
Goatskin	Full-Grain	Keystone	Beige	S, M, L, XL	**D1646**	
Cowhide	Full-Grain	Keystone	Yellow	S, M, L, XL, 2XL	**D6139**	*
Elkskin	Grain	Straight	Yellow	S, M, L, XL, 2XL	**J4940**	
Cowhide	Full-Grain	Keystone	Brown/White	S, M, L, XL, 2XL	**H6336**	†
A Grade						
Cowhide	Full-Grain	Keystone	Off White	S, M, L, XL	**D1647**	
B, C Grade						
Deerskin	Full-Grain	Keystone	Yellow	S, M, XL	**D1651**	
Cowhide	Split	Straight	Gray	S, M, L, XL, 2XL	**D1588**	
Cowhide	Full-Grain	Keystone	Beige	S, M, L, XL	**D1593**	
Cowhide	Full-Grain	Keystone	Yellow	L	**D1651**	
B Grade						
Cowhide	Full-Grain	Straight	White	XS, S, M, L, XL, 2XL	**D1591**	
Pigskin	Full-Grain	Keystone	Beige	XS, S, M, L, XL, 2XL	**D1592**	
Goatskin	Full-Grain	Keystone	Gray	S, M, L, XL, 2XL	**D1589**	

** Split leather palm patch. † Kevlar® stitching.*



No. D1647



No. D1649



No. D6139



No. J4940



No. H6336



No. D1592

Insulated Driver's Gloves

Condor

- Gunn cut
- Shirred wrist

Made to help your hands stay comfy in hot or cold applications. Polyester stitching is tough and long-lasting. No. J4938 hand and finger backs have thermoplastic rubber for impact protection.

Leather Palm Material	Thumb Style	Lining	Color	▶CHOOSE: Size	Item No.
A, B Grade					
Grain	Wing	Jersey	Gold/Yellow	S, M, L, 2XL	**J4938**
Grain	Keystone	Jersey	Gold/Yellow	XL	**J4938**
Full-Grain	Keystone	Jersey	Beige	L, M, S, XL	**D1596**
B Grade					
Grain Pigskin Leather	Keystone	Thinsulate	Cream	S, M, L, XL	**D1659**
B, C Grade					
Full-Grain	Straight	Jersey	Beige, White	S, L, M, XL	**D1598**
Grain Deerskin Leather	Keystone	Thinsulate	Golden Yellow	M, S, L, XL	**D1667**
Grain Cowhide Leather	Keystone	Thermal Cotton	Cream	S, M, L, XL	**D1661**



No. J4938



No. D1659

No. D1598





No. D1667

Find Glove sizing information on page 1669; find Material and Style information on page 1699.


No. D1569


No. D1572


No. D1576


No. D1564


No. D1559


No. D1558

Condor

Cowhide Leather Palm Work Gloves

Combining the abrasion resistance and thermal protection of cowhide leather with the breathability and comfort of a cotton back, these gloves can help keep you on-task through a long day. Sturdy striped-back gloves have strong polyester stitching. Plus you get the extra dexterity of unlined construction.

Leather Grade/ Palm Type	Back Material	Thumb Style	Glove Cut	Cuff	Color	▶CHOOSE: Size	Item No.	
A Grade								
Split	Cotton	Straight	Clute	Knit Wrist	Blue/Gray	S, L, XL	**D1569**	
Split	Cotton	Wing	Gunn	Safety	Gray	S, L, XL	**D1571**	
Split	Cotton	Wing	Gunn	Gauntlet	Gray	S, L, XL	**D1572**	
Split/Double Palm	Cotton	Wing	Gunn	Safety	Blue/Gray/ Green, Blue/Gray	S, L, XL	**D1573**	
A, B Grade								
Full-Grain	Cotton, Polyester	Wing	Gunn	Safety	Blue/White	S, M, L, XL, 2XL	**D1575**	
Full-Grain	Cotton, Polyester	Wing	Gunn	Safety	Black/Beige	S, M, L, XL, 2XL	**J4948**	
Full-Grain	Cotton, Polyester	Wing	Gunn	Gauntlet	Blue/Yellow	L, XL	**D1576**	
Split	Cotton	Straight	Clute	Knit Wrist	Red Striped	S, L, XL	**D1564**	
Split	Cotton	Wing	Gunn	Safety	Red/White	S, L, XL, 2XL	**D1565**	
Split	Cotton	Wing	Gunn	Gauntlet	Gray	S, L, XL	**D1566**	
Split	Cotton	Wing	Gunn	Safety	Gray	S, L, XL	**D1567**	
Split/Double Palm	Cotton	Wing	Gunn	Gauntlet	Gray	S, L, XL	**D1568**	
B, C Grade								
Split	Cotton, Polyester	Wing	Gunn	Safety	Gray	XS, S, L, XL, 2XL	**D1559**	*
Split	Cotton	Wing	Gunn	Safety	Gray	XS, S, L, XL, 2XL	**D1561**	
Split	Cotton, Polyester	Wing	Gunn	Gauntlet	Gray	L, XL	**D1562**	
C, D Grade								
Split	Cotton, Polyester	Straight	Clute	Knit Wrist	Gray	S, L, XL	**D1558**	
Split	Cotton	Wing	Gunn	Gauntlet	Gray	S	**D1562**	
Split/Double Palm	Cotton	Wing	Gunn	Safety	Gray	S, L, XL	**D1563**	

** 3-pc. palm patch.*


No. D1599


No. D1687


No. J4937


No. D1582


No. D1665


No. D1597


No. D1695

Condor

Insulated Leather Palm Work Gloves

Warmth, comfort, and breathability are designed into these gunn cut gloves that will stand up to heavy-duty jobs. Tucked away at the base of 2 fingers, the reinforced seam won't bug you while you're working. Strong polyester stitching except where noted. Hi-Vis gloves have 3M™ Scotchlite™ reflective material and meet ANSI 107 standards.

Leather Grade/ Palm Type	Back Material	Lining	Glove Cut	Thumb Style	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.	
A Grade									
Cowhide									
Split	CottonWoven Cotton	Waterproof Thinsulate	Gunn	Wing	Safety with Knit Wrist	Blue/Yellow	M, L	**D1599**	
Split	CottonWoven Cotton	Waterproof Thinsulate	Gunn	Wing	Safety	White/Gray	L, XL	**D1666**	
A/B Grade									
Pigskin									
Grain	PolyesterPolyester	Nylon with WarmTex(R)	Gunn	Wing	Safety with Knit Wrist	Hi-Vis Green/Gray	S, M, L	**D1687**	
Grain	Cotton/PolyesterPolyester Cotton	Thinsulate	Gunn	Wing	Safety	Gold Yellow/Blue Stripes	M, L, XL	**D1664**	
Grain	PolyesterPolyester	Fleece	Gunn	Wing	Safety with Knit Wrist	Hi-Vis Green/Gray	XL	**D1687**	
B/C Grade									
Cowhide									
Full Grain	Cowhide	Thinsulate	Gunn	Wing	Safety	White/High-Visibility Orange	S, M, L, XL, 2XL	**J4937**	
Side Split	Cotton	Fleece	Gunn	Wing	Rubberized Safety	Gray	S, M, L, XL	**D1579**	*
Side Split	Cotton Canvas	Fleece	Gunn	Wing	Safety	Gray	S, M, L, XL	**D1581**	*
Side Split/Double Palm	Cotton	Fleece	Gunn	Wing	Safety	Gray	S, M, L, XL	**D1582**	*
Split	CowhideGrain Cowhide Leather	Thinsulate	Gunn - Full Back	Keystone	Knit Wrist	Black	S, M, L, XL	**D1665**	
Split	Polyester	White Non-Woven Fabric	Gunn	Wing	Safety	High-Visibility Green	S, M, L, XL	**D1683**	
Split	Polyester	White Non-Woven Fabric	Gunn	Wing	Safety	High-Visibility Orange	S, M, L, XL	**D1684**	
Split	CanvasCanvas	Soft Brushed Nylon	Gunn	Wing	Safety	Denim Blue/Tan	L, XL	**D1597**	
Split with Palm Patch	Polyester	Insulated	Gunn	Wing	Knit Wrist	High Visibility Lime	S, M, L, XL	**D1695**	
Split with Palm Patch	Polyester	Insulated	Gunn	Wing	Knit Wrist	High Visibility Orange	S, M, L, XL	**D1697**	
Goatskin									
Full Grain	Cotton	Fleece	Gunn	Wing	Safety	Blue/White, Red/White	S, M, L, XL	**D1577**	
Pigskin									
Full Grain	Polyester	Nylon Laminated with Insulation	Gunn	Wing	Knit Wrist	High-Visibility Orange	S, M, L, XL	**D1689**	
Full Grain	Polyester	Thermal	Gunn	Wing	Knit Wrist	High Visibility Lime	S, M, L, XL, 2XL	**J4946**	
Full Grain	Polyester	Waterproof Thermal	Gunn	Wing	Knit Wrist	High Visibility Lime	S, M, L, XL, 2XL	**J4947**	
Full Grain	Cotton Canvas	Fleece	Gunn	Wing	Safety	Brown/Blue	L, XL	**D1668**	
Full Grain	Polyester Cotton	Polyester	Gunn	Wing	Safety with Knit Wrist	Beige/Blue	L	**D1595**	
Full Grain	Polyester Cotton	Polyester	Gunn	Wing	Safety	Beige/Blue	XL	**D1595**	

** Extra-strong Kevlar® stitching is stretch-resistant to help keep the seam tight.*

Condor

Full-Leather Work Gloves

Seamless-backed Gunn-cut gloves have reinforced seams for increased durability and wear life. The wing thumb gives you a comfortable grip and free movement.



No. D1574



No. D1578



No. J4945

Grade of Leather	Material	Leather Palm Type	Lining	Thumb Style	Cuff	Color	▶CHOOSE: Size	Item No.
A	Cowhide	Split	Unlined	Wing	Gauntlet	Gray	S, L, XL	D1574
A, B	Goatskin	Full-Grain	Unlined	Wing	Hook-and-Loop	Brown	M, L, XL	D1578
A, B	Goatskin	Full-Grain	Fleece	Wing	Gauntlet	Yellow	S, M, L, XL, 2XL	J4945



No. D1585



No. D1584



No. D1699



No. D1705



No. 2ELF4

MCR SAFETY

Leather-Palm Gloves

Big Jake®—Rugged heavy-duty gloves are made with heavy, select side leather for durability. Rubberized cuffs. Sewn with DuPont™ Kevlar®.

Lumber Jake®—Select, heavy side leather, double palm and finger, rubberized cuff, and triple leather thumb crotch. Full-leather back for rugged applications. Sewn with DuPont™ Kevlar®.

Luminator® Hi-Vis—High-visibility 3M™ Scotchlite™ reflective backing and reflective material on the knuckle and rubberized cuff help you be seen in dim lighting or busy locations. Provides abrasion resistance and durability. No. D1702 has a microabsorbent terry fabric liner. No. D1705 helps keep you working in wet conditions, with a waterproof barrier and full Thermo Sock® liner.

Glove Leather Grade	Description	Lining	Cuff	Thumb Style	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Big Jake®								
A	Premium Split Cowhide	Fleece Palm	Safety	Wing	Gray	M, L, XL	1710	D1585
A	Premium Split Cowhide	Fleece Palm	Safety	Wing	Gray, Natural	S, M, L, XL, 2XL	1700	D1583
Lumber Jake®								
A	Premium Split Cowhide	Fleece Palm	Safety	Straight	Gray	M, L, XL	1735	D1584
Luminator® Hi-Vis								
	Premium Grain Cowhide	Unlined	Hook-and-Loop	Wing	Hi-Vis Orange and Black	S, M, L, XL	921	D1699
A	Premium Grain Pigskin	Thermosock	Knit Wrist	Wing	Black Palm, HiVis Orange and Yellow Back	S, M, L, XL	34411	D1705
	Premium Grain Goatskin	Insulated	Hook-and-Loop	Keystone	Hi-Vis Yellow and White	S, M, L, XL	968	D1707
B	Select Split Cowhide	Fleece Palm	Safety	Wing	Gray	L	1440	2ELF4

Condor

ergodyne WORK GEAR



No. H7255



No. E5405

Glove Clips

Nonconductive plastic clip attaches to belt loop or clothing to hold gloves where you need them for easy access.

Description	▶CHOOSE: Color	Brand	Mfr. Model	Item No.
Double Clip	Black, Blue, Lime, Orange	Condor	—	H7255
Belt Clip	Black, Blue, Hi-Vis Orange, Lime, Red	Squids By Ergodyne	3405	E5405



Condor

Heat-Resistant Leather Gloves

Designed for use when you need more abrasion resistance, these tanned split leather gloves are Kevlar® thread sewn. Wool lined with flame-retardant cotton liner cuff. Clute cut is roomy and promotes ease of movement and comfortable grip.

Description	Max. Temp.	L	Item No.
Split Leather with Wool Lining	500 °F	12 ½ in	2AH63



No. 5T355



No. 5T358



No. 5T360

Condor

High-Heat Protective Gloves, Mittens, and Covers

Made with 22-oz. aramid fibers, a combination of Kevlar® and Twaron® spun around a fiberglass core yarn. Kevlar® thread sewn. On the wool-lined Gloves and Mittens, the thumb extends straight from the wrist, using less material to reduce the cost of the glove. Mitten Covers fit over most gloves or mitts for extra protection while handling hot items, and to help prolong glove or mitt life. Select items are reversible for extended wear life.



No. 1C296

Max. Temp.	L	Size	Item No.
Kevlar®/Cotton Gloves			
660 °F	11 in	One Size Fits Most	5T354
660 °F	14 in	One Size Fits Most	5T355
660 °F	18 in	One Size Fits Most	5T356
Leather-Reinforced Kevlar® Gloves			
482 °F	10 ¾ in	One Size Fits Most	5T357
482 °F	13 ½ in	One Size Fits Most	5T358
Mittens			
660 °F	14 in	Men's M	5T360
Multilayered Mittens, Reversible			
660 °F	12 in	Men's S	5T361
Mitten Covers, Reversible			
480 °F	9 in	L	1C296



Condor

Heat-Resistant Gloves

Ambidextrous gloves have a loop-out shell for nonslip grip and abrasion protection. 5" flame-retardant cuff.

Description	Max. Temp.	Lining	Size	Cuff	L	Item No.
Kevlar® Terry Cloth with Wool Lining	482 °F	Wool	XL	Gauntlet	13 in	4JC88

Find Reflective Aluminized Gloves on page 1715.



Ansell

Crusader® Flex Heat-Resistant Gloves

2-pc. construction eliminates outseams for improved comfort, dexterity, flexibility, and grip. Nonwoven felt insulation on inner front for superior heat protection. Gray color.

Max. Temp.	L	▶CHOOSE: Size	Mfr. Model	Item No.
400 °F	14 in	9, 10	42-474	D1613



No. D1723

IronClad Performance Wear

Heatworx® Heat-Resistant Gloves

Palms are cut-, abrasion-, and shrink-resistant and oil- and water-repellent. 100% Kevlar® stitching. Excellent protection for handling hot objects. 2¾" cuffs.

No. D1724 has molded silicone rubber palm for enhanced heat and puncture resistance.

Note: Max. temp. may vary depending on application, weight of product, and length of time handled.

Description	Max. Temp.	▶CHOOSE: Size	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Mfr. Model	Item No.
Reinforced	450 °F	S, M, L,	A2	Not Tested	HW4	D1723
Heavy-Duty 2	600 °F	XL, 2XL	A2	Not Tested	HW6X	D1724



No. 3GAE8



No. 3GAF1



No. 3GAE9

High-Heat Protective Gloves, Mittens, and Covers

National Safety Apparel®

- 1 size fits most

Gloves—Choose wool-lined gloves with Kevlar® or PBI®/Kevlar® outer material. Wing thumb design offers comfortable grip and free thumb movement. The similar straight thumb design uses less material than the wing thumb, which reduces the cost of the glove.

Mittens and Mitten Covers—Mittens feature quilted Zetex Plus® with wool lining. Mitten Covers offer increased protection and extended useful mitten life.

Description	Max. Temp.	L	Item No.
Gloves			
22-oz. Kevlar® Blend Glove with Wing Thumb	500 °F	14 in	3PWJ3
22-oz. PBI®/Kevlar® Glove with Wing Thumb	600 °F	14 in	3PWJ4
22-oz. PBI®/Kevlar® Glove with Straight Thumb	600 °F	14 in	3GAE8
45-oz. PBI®/Kevlar® Glove with Straight Thumb	500 °F	14 in	3GAF4
Mittens and Mitten Covers			
Multilayered Mittens, Reversible	1,000 °F	14 in	3GAE9
Mitten Covers, Reversible	395 °F	10 in	3GAF1

Find Reflective Aluminized Gloves on page 1715.

Condor

Heat-Resistant Knit Sleeves and Gloves

Loop-in style gloves reduce snags and increase longevity. Loop-out style protects against abrasion and provides nonslip grip.

SLEEVES

A. 100% Cotton—Protects arms from heat. Elastic on both ends keeps sleeve snugly in place.

B. Terry Cloth—Additional arm length offers for extra heat protection. Elastic top.

GLOVES, MITTENS, AND PADS

C. Cotton Terry Cloth Gloves—Reversible, seamless gloves provide 4 wear surfaces. Insulate against elevated temperatures.

D. Kevlar®/Cotton Blend Terry Cloth Gloves—Reversible and seamless with knit wrist.

E. Kevlar Cotton Liner Terry Cloth Gloves—Cotton interior absorbs moisture. Ambidextrous and seamless.

F. Cotton Hot Mill Gloves—Nos. 2AP57 and 6AJ18 are clute cut. Nos. 5MPK7, 4TJY2 and 4TJU8 have burlap liner for heat resistance.

G. Coated Heavyweight Cotton Blend Gloves—Glove-within-glove design. Nitrile C coating for added thermal protection, grip, and abrasion resistance. Ambidextrous with seamless knit construction.

H. C-Tread Hot Mill Gloves—Ambidextrous gloves have a C nitrile coating to improve grip. Inner knit layer bonded to waffle design. Cushioned outer cotton/poly layer resists heat. No. 1AHE9 features a vaporproof membrane. No. 2ENE3 is uncoated.

I. Kevlar C-Tread Coated Hot Mill Gloves—Ambidextrous gloves have a C nitrile coating to improve grip. Inner knit layer bonded to waffle design. Kevlar/cotton blend outer layer protects against cuts and slashes.

J. Terry Cloth Pad and Mittens—Baker's pad features an elastic wrist strap. Cut and sewn loop-out. Lined, reversible mittens give 4 wearing surfaces per pair.

K. Terry Cloth Gloves—Lined, reversible gloves have extra heavyweight material for extended wear and heat protection.

L. Flame-Retardant Terry Cloth Gloves—Ambidextrous, lined gloves have extra heavyweight material.

M. Nomex®/Kevlar Glove—Ambidextrous glove has cotton lining.


A.


B.
No. 4JD84


C.
No. 5AV90


D.


E.


F.
No. 4TJU8


G.


H.
No. 4A277


H.
No. 2ENE3


I.


J.
No. 4JD74


K.
No. 4JC94


L.


M.

Key	Description	Max. Temp.	L	Cuff	Size	Color	Item No.	
Sleeves								
A	100% Cotton Sleeve, Sold Individually	200 °F	17	Knit Wrist	Universal	White	**1NXN1**	*
B	Terry Cloth, Med. Wt., Loop-Out, Sold Individually	200°F	16"	Knit Wrist	Universal	White	**4JD86**	*
B	Terry Cloth, Heavy Wt., Loop-Out, Sold Individually	350°F	19"	Hemmed	Universal	Natural	**4JD84**	*
Gloves, Mittens, and Pads								
C	Cotton Terry Cloth Gloves, 16 oz., Loop-In	250 °F	9 in	Knit	S	White	**5AP60**	
C	Cotton Terry Cloth Gloves, 16 oz., Loop-In	250 °F	10 in	Knit	L	White	**5AV90**	
C	Cotton Terry Cloth Gloves, 24 oz., Loop-Out	250 °F	9 in	Knit	S	Off-White	**3AP36**	
C	Cotton Terry Cloth Gloves, 24 oz., Loop-Out	250 °F	10 in	Knit	L	White	**3AT17**	
C	Cotton Terry Cloth Gloves, 24 oz., Loop-In	250 °F	9 in	Knit	S	White	**K2502**	
C	Cotton Terry Cloth Gloves, 24 oz., Loop-In	250 °F	10 in	Knit	L	White	**K2502**	
D	Kevlar®/Cotton Blend Terry Cloth Gloves, 18 oz. Loop-Out	500 °F	9 in	Knit	S	White/Gold	**5MPK5**	
D	Kevlar®/Cotton Blend Terry Cloth Gloves, 18 oz. Loop-Out	500 °F	10 ½ in	Knit	L	White/Gold	**5MPK4**	
E	Kevlar® Cotton Liner Terry Cloth Gloves, 24 oz.	500 °F	11 in	Knit	L	Yellow/White	**2AK66**	
F	Cotton Hot Mill Gloves, 22 oz., Nap-Out	275 °F	11 in	Safety	L	White	**2AP57**	
F	Cotton Hot Mill Gloves, 22 oz., Nap-Out	275 °F	12 in	Gauntlet	L	White	**6AJ18**	
F	Cotton Hot Mill Gloves, 24 oz. Nap-In	250 °F	10 ½ in	Knit	L	Off-White	**5MPK7**	
F	Cotton Hot Mill Gloves, 30 oz. Nap-Out	500 °F	10 ½ in	Safety	L	Off-White	**4TJY2**	
F	Cotton Hot Mill Gloves, 30 oz. Nap-Out	500 °F	13 in	Gauntlet	L	Off-White	**4TJU8**	
G	Coated Heavyweight Cotton Blend Gloves	605 °F	11 in	Knit	L	White/Rust	**4JF36**	
H	C-Tread Hot Mill Gloves	480 °F	10 ¾ in	Knit	XL	White/Rust	**4A277**	
H	C-Tread Hot Mill Gloves, Steamproof	482 °F	10 ¾ in	Knit	Universal	Red/White	**1AHE9**	
H	C-Tread Hot Mill Glove, Extended, Sold Individually	400 °F	18 in	Knit	Universal	Off-White	**2ENE3**	*
I	Kevlar® C-Tread Coated Hot Mill Gloves	400 °F	10 ¾ in	Knit	XL	White/Yellow/Rust	**5T942**	
J	Terry Cloth Baker's Pad, Sold Individually	450 °F	11 in	Elastic Strap	Universal	White	**4JD55**	*
J	Terry Cloth Lined Mittens	450 °F	10 ½ in	Safety	XL	Brown/White	**4JD73**	
J	Terry Cloth Lined Mittens	450 °F	17 in	Gauntlet	L	White	**4JD74**	
K	Terry Cloth Gloves	450 °F	10 ½ in	Safety	XL	Brown/White	**4JC94**	
K	Terry Cloth Gloves	450 °F	13 ½ in	Gauntlet	XL	Brown/White	**4JC91**	
L	Flame-Retardant Terry Cloth Gloves	450 °F	13 ½ in	Gauntlet	XL	Red	**4JC92**	
M	Nomex®/Kevlar® Glove, Sold Individually	480 °F	11 ½ in	Knit	L	Yellow/White	**1ZPP3**	*

Sold individually.

Scan. Order. Done.
Details on page A1.


A.
No. D1603


B.
No. D1604


C.


E.


G.
No. 23J996


H.


I.


K.


L.
No. H3846


N.


P.


Q.


T.


U.


V.


W.


Y.


AA.


DD.

Welding Gloves

APPLICATIONS

Stick—Thick, heavy-duty gloves with welted fingers offer superior burn, spark, and high-heat resistance. Gauntlet cuff provides additional wrist protection. Nos. 23J997 and 23J996 have padded forearm and elbow. Nos. 4AZH3 and 4AZH4 have Kevlar® knit sewn to cuff.

MIG—Provide good burn, spark, and medium heat resistance. Enhanced dexterity allows operation of trigger and welding guns. No. G6139 has hook-and-loop wrist closure.

TIG—Thinner leather provides superior feel and dexterity with light burn, spark, and heat resistance.

Key	Length	Palm Material	Back Material	Lining Material	Hand	Stitching Material	Cuff	Color	▶CHOOSE: Size	Brand	Mfr. Model	Item No.	
Stick Welding													
A	12 ½ in	Cowhide	Cowhide	Cotton	Left Only	Polyester	Gauntlet	Gray	M	Condor	—	**D1655**	*
A	12 ½ in	Cowhide	Cowhide	Cotton	Left and Right	Polyester	Gauntlet	Gray	M	Condor	—	**D1603**	
A	14 in	Cowhide	Cowhide	Cotton	Left Only	Polyester	Gauntlet	Gray	L, XL	Condor	—	**D1655**	*
A	14 in	Cowhide	Cowhide	Cotton	Left and Right	Polyester	Gauntlet	Gray	L	Condor	—	**D1603**	
A	14 in	Cowhide	Cowhide	Cotton	Left and Right	Polyester	Gauntlet	Brown	XL	Condor	—	**D1603**	
B	12 ¼ in	Cowhide	Cowhide	Cotton	Left Only	Kevlar®	Gauntlet	Russet	M	Condor	—	**D1656**	*
B	12 ¼ in	Cowhide	Cowhide	Cotton	Left and Right	Kevlar®	Gauntlet	Brown	M	Condor	—	**D1604**	
B	13 in	Cowhide	Cowhide	Cotton	Left Only	Kevlar(R)	Gauntlet	Russet	L	Condor	—	**D1656**	*
B	13 in	Cowhide	Cowhide	Cotton	Left and Right	Kevlar®	Gauntlet	Brown	L	Condor	—	**D1604**	
B	14 in	Cowhide	Cowhide	Cotton	Left Only	Kevlar(R)	Gauntlet	Russet	XL	Condor	—	**D1656**	*
B	14 in	Cowhide	Cowhide	Cotton	Left and Right	Kevlar®	Gauntlet	Brown	XL	Condor	—	**D1604**	
C	13 ½ in	Cowhide	Cowhide	Cotton, Polyester	Left and Right	Kevlar®	Gauntlet	Blue	M	Condor	—	**D1657**	
C	13 ¾ in	Cowhide	Cowhide	Cotton, Polyester	Left and Right	Kevlar®	Gauntlet	Blue	L, XL	Condor	—	**D1657**	
E	13 ½ in	Pigskin	Cowhide	Fleece, Foam	Left and Right	Kevlar®	Gauntlet	Gray/Tan	L, XL	Caiman	1812	**G6136**	
F	13 ½ in	Elkskin	Deerskin	Wool	Left and Right	Kevlar(R)	Gauntlet	Black/Gold	L	Caiman	1852	**23K005**	
G	21 in	Deerskin	Deerskin	Fleece, Foam	Left Only	Kevlar(R)	Extended	Black/Tan	L	Caiman	1878	**23J997**	*
G	21 in	Deerskin	Deerskin	Fleece, Foam	Left and Right	Kevlar(R)	Extended	Black/Tan	L	Caiman	1878	**23J996**	
H	18 in	Cowhide	Cowhide	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Brown	L	Steiner	21918	**4AZG2**	
I	14 in	Cowhide	Cowhide	Cotton, Foam, Mylar	Left and Right	Kevlar®	Gauntlet	Yellow	L	Steiner	021NT	**4AZG3**	
J	14 in	Cowhide	Cowhide	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Brown	L	Steiner	2119B-KSC	**4AZH3**	
K	18 in	Cowhide	Cowhide	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Brown	L	Steiner	21918-KSC	**4AZH4**	
L	14 in	Elkskin	Elkskin	Cotton, Foam	Left and Right	Kevlar(R)	Gauntlet	Gold	S, M, L, XL	Ironcat	9060	**H3846**	
L	14 in	Elkskin	Elkskin	Cotton, Foam	Left and Right	Kevlar(R)	Gauntlet	Pearl	S, M, L, XL	Ironcat	9061	**H3847**	
M	16 ¼ in	Elkskin	Elkskin	Cotton foam lined	Left and Right	Kevlar®	Gauntlet	White	S, M	Tillman	750	**D1605**	
M	16 ½ in	Elkskin	Elkskin	Cotton foam lined	Left and Right	Kevlar®	Gauntlet	White	L, XL	Tillman	750	**D1605**	
N	16 ¼ in	Elkskin	Cowhide	Cotton foam lined	Left and Right	Kevlar®	Safety	Tan	S, XL	Tillman	850	**D6149**	
N	11 in	Elkskin	Cowhide	Cotton foam lined	Left and Right	Kevlar®	Safety	Tan	M, L	Tillman	850	**D6149**	
MIG Welding													
O	13 in	Cowhide	Cowhide	Unlined	Left and Right	Kevlar®	Gauntlet	Tan	M, L, XL	Caiman	1869	**G6141**	
P	9 in	Cowhide	Cowhide	Fleece	Left and Right	Kevlar®	Safety	Tan	M	Caiman	1828	**G6139**	
P	10 in	Cowhide	Cowhide	Fleece	Left and Right	Kevlar®	Safety	Tan	L, XL	Caiman	1828	**G6139**	
Q	13 in	Cowhide	Pigskin	Fleece, Foam	Left and Right	Kevlar®	Gauntlet	Tan	L, XL	Caiman	1810	**G6135**	
S	13 ¼ in	Cowhide	Cowhide	Unlined	Left and Right	Kevlar®	Gauntlet	White	S, M, L, XL	Tillman	1350	**D1606**	
T	11 in	Goatskin	Cowhide	Fleece Lined	Fleece Lined	Kevlar®	Gauntlet	Brown/White	M	Tillman	48	**D6151**	
T	12 in	Goatskin	Cowhide	Fleece Lined	Fleece Lined	Kevlar®	Gauntlet	Brown/White	L	Tillman	48	**D6151**	
T	13 in	Goatskin	Cowhide	Fleece	Left and Right	Kevlar®	Gauntlet	Brown/White	XL	Tillman	48	**D6151**	
U	13 ¼ in	Cowhide	Pigskin	Unlined	Left and Right	Kevlar®	Gauntlet	Tan	S, M, L	Tillman	42	**D1607**	
U	13 in	Cowhide	Pigskin	Unlined	Left and Right	Kevlar®	Gauntlet	Tan	XL	Tillman	42	**D1607**	
V	13 in	Cowhide	Cowhide	Fleece Lined	Fleece Lined	Kevlar®	Gauntlet	Brown/White	M	Tillman	50	**D6152**	
V	13 ¼ in	Cowhide	Cowhide	Fleece Lined	Left and Right	Kevlar®	Gauntlet	Brown/White	L	Tillman	50	**D6152**	
V	14 in	Cowhide	Cowhide	Fleece Lined	Left and Right	Kevlar®	Gauntlet	Brown/White	XL	Tillman	50	**D6152**	
TIG Welding													
W	12 in	Goatskin	Kidskin	Unlined	Left and Right	Kevlar®	Hemmed	White	S, M, L, XL	Condor	—	**H7890**	
X	11 ½ in	Pigskin	Pigskin	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Yellow	M	Condor	—	**D1609**	
X	12 in	Pigskin	Pigskin	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Yellow	L	Condor	—	**D1609**	
X	12 ¾ in	Pigskin	Pigskin	Cotton, Foam	Left and Right	Kevlar®	Gauntlet	Yellow	XL	Condor	—	**D1609**	
Y	10 ¾ in	Goatskin	Goatskin	Unlined	Left and Right	Kevlar®	Gauntlet	White	M	Condor	—	**D1611**	
Y	11 ¼ in	Goatskin	Goatskin	Unlined	Left and Right	Kevlar®	Gauntlet	White	L	Condor	—	**D1611**	
Y	11 ¾ in	Goatskin	Goatskin	Unlined	Left and Right	Kevlar®	Gauntlet	White	XL	Condor	—	**D1611**	
Z	13 in	Deerskin	Deerskin	Unlined	Left and Right	Kevlar®	Gauntlet	Gray	M, L, XL	Caiman	1864	**G6140**	
AA	Kidskin	Kidskin	Kidskin	Unlined		Kevlar®	4 in Gauntlet	White	S, M, L, XL	Tillman	24C	**D1612**	
BB	12 in	Kidskin	Kidskin	Unlined	Left and Right	Kevlar®	Gauntlet	Black	S, M, L, XL	Steiner	0266	**D1662**	
CC	13 in	Goatskin	Pigskin	Fleece	Left and Right	Kevlar®	Gauntlet	White/Tan	M, L, XL	Caiman	1868	**G6138**	
DD	10 in	Kidskin	Nomex®	Unlined	Left and Right	Kevlar®	Elastic	Black	S, M, L, XL	Steiner	0260	**D1663**	

Sold as left hand only.

Knee Pads

WESTWARD®

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Item No.
Nonmarring						
EVA Foam	EVA Foam	Hook-and-Loop	Elastic	2	Gray/Black	**12F688**
Foam	EVA Foam	Hook-and-Loop	Elastic	1	Gray/Black	**12F689**
Polyester	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZP1**
Polyester	EVA Foam	Quick Release	Elastic	2	Black/Blue	**12F681**
PVC	EVA Foam	Button-and-Loop	Rubber	2	Gray	**12F685**
PVC	EVA Gel Foam	Button-and-Loop	Rubber	2	Blue	**12F684**
Nonskid						
Polypropylene	EVA Foam	Quick Release	Neoprene	2	Black/Blue/White	**12F680**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Blue/White	**5MZH7**
Polypropylene	EVA Foam	Quick Release, Hook-and-Loop	Elastic	2	Black	**12F682**
Polypropylene	EVA Gel Foam	Quick Release, Hook-and-Loop	Elastic	2	Black	**12F683**
Stabilizer						
Polypropylene and TPR	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black	**5MZN5**
Polyurethane	Neoprene	Hook-and-Loop	Elastic	1	Black/Blue	**5MZH8**
TPR	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZR0**
Swivel						
Polypropylene	EVA Foam	Hook-and-Loop	Elastic	2	Black/Gray	**12F686**
Polypropylene	Polyethylene	Hook-and-Loop	Elastic	2	Black/Gray	**5MZH5**
Polypropylene	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZH9**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Black/White	**5MZH6**
Polypropylene	EVA Gel Foam	Quick Release	Elastic	2	Black	**5MZN1**


Nonmarring
No. 12F688


Nonskid
No. 12F682


Stabilizer
No. 5MZH8


Swivel
No. 5MZH5

Knee Pads

CLC Custom LeatherCraft®

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Nonmarring							
EVA Foam	EVA Foam	Hook-and-Loop	Elastic	2	Black	V229	**22PN90**
Natural Rubber	Natural Rubber	Hook-and-Loop	Elastic	1	Rust	V310	**5LF32**
Polyester	EVA Foam	Quick Release	Nylon and Elastic	2	Black	342	**5DYP0**
Nonskid							
Polypropylene	EVA Foam	Quick Release, Hook-and-Loop	Elastic	2	Black	345	**3HY94**
PVC	EVA Foam	Button-and-Loop	Rubber	2	White	361	**5LD97**
TPR	EVA Foam	Hook-and-Loop	Elastic	2	Black/White	V234	**5LF31**
Stabilizer							
Polypropylene	EVA Foam	Quick Release, Hook-and-Loop	Elastic (Upper), Neoprene (Lower)	2	Black	G340	**3HY95**
PVC	EVA Foam	Quick Release	Nylon and Elastic	2	Black	339	**5DYN5**
Swivel							
Polypropylene	EVA Foam	Hook-and-Loop	Elastic	2	Black/White	V230	**5LF30**
Polypropylene	PU Gel	Quick Release	Nylon and Elastic	2	Gray	375	**5ZPJ4**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Black/White	V237	**4ZB27**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Blue/White	V6355	**5LF33**


Nonmarring
No. 5DYP0


Nonskid
No. 3HY94


Stabilizer
No. 3HY95


Swivel
No. 5LF30

Knee Pads

DEWALT

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Nonmarring							
Polyester	EVA	Quick Release	Nylon	2	Black/Yellow	DG5224	**3XUU2**
Stabilizer							
Rubber	PU Foam, Gel	Button-and-Loop	Rubber	2	Black	DG5217	**3XUU1**
Polypropylene and TPE	EVA and PU Gel	Quick Release, Hook-and-Loop	Elastic (Upper), Neoprene (Lower)	2	Black/Yellow	DG5204	**3XUT9**


Nonmarring
No. 3XUU2


Stabilizer
No. 3XUT9

Proflex® Knee Pads

ergodyne

Cap Style	Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Short Cap								
Hard Shell	Rubber	EVA Foam, Lightweight Gel	Clip	Nylon and Elastic	2	Black	357	**53PZ85**
Hard Shell	Rubber	PU Foam, Gel	Clip	Elastic	2	Black	344	**53PZ81**
Long Cap								
Hard Shell	Rubber	EVA Foam, Lightweight Gel	Clip	Nylon and Elastic	2	Black	347	**53PZ83**
Hard Shell	Rubber	PU Foam, Gel	Clip	Elastic	2	Black	345	**53PZ82**


Short Cap
No. 53PZ85


Long Cap
No. 53PZ82

Kneeling Mats

IMPACTO® PROTECTIVE PRODUCTS | Condor® | NOTRAX® MATS FOR PROFESSIONAL USE | CLC® Custom LeatherCraft®

Material	L	W	Edges	Brand	Mfr. Model	Item No.
Cut Out Carry Handle						
Closed Cell Foam Rubber	16"	8"	Tapered	Impacto	MAT5040	**21NN37**
NBR	22"	12"	Squared	Condor	—	**22EN49**
Nitrile/PVC Sponge Blend	22"	12"	Squared	Notrax	950S	**2HNV9**
Cut Out Carry Handle and Safety Yellow Border						
NBR	21"	14"	Squared	Condor	—	**22EN46**
NBR	21"	14"	Square	CLC	302	**13R623**
NBR	28"	16"	Tapered	Condor	—	**22EN47**
NBR	28"	16"	Tapered	CLC	303	**13R624**
NBR	36"	18"	Tapered	Condor	—	**22EN48**
NBR	36"	18"	Tapered	CLC	305	**13R625**
Cut Out Carry Handle and Laminated Rubber Bottom Surface						
NBR	22"	12"	Squared	Condor	—	**22EN50**
Nitrile/PVC Sponge Blend	22"	12"	Squared	Notrax	951S	**2HNW1**



No. 13R623

Choose the Right Ergonomic Products to Help Prevent Injuries

Using **ergonomic principles** that design the workplace to accommodate employees can help in **avoiding Work-Related Musculoskeletal Disorders** (WMSDs). MSDs are soft tissue injuries that affect the blood vessels, ligaments, muscles, nerves, and tendons.

Investment and Return

Simple and relatively inexpensive workplace modifications such as adjustable work platforms, footrests, or chairs can aid in major reductions in workplace stress.

Corrective Measures

A reduction in workplace stress can help decrease lost work days and improve productivity and team member morale. Employee training on ergonomic issues can aid personnel in identifying problem areas within their work area that may require ergonomic improvements.

Employee Evaluation

Receiving feedback from team members regarding their ergonomically-designed tools and furniture can help ensure the equipment meets their specific requirements.

Read the full article "Prevent Workplace Injuries with Ergonomics" at **grainger.com/prevent-injuries**

The Safety Record℠

Your online source for safety news and other information to help you keep your facility and people safe.

Visit **safety.grainger.com**



OccuNomix

Back Support

Features durable nylon fabric, EVA memory foam core, roller-style buckle, hook-and-loop closure, and radio attachment. Ambidextrous design.

Description	W	▶CHOOSE: Size	Item No.
Foam Core	5"	S, M, L, XL, 2XL, 3XL	H4788



No. 4WW02

Condor

Ambidextrous Wrist Supports

Lightweight, washable supports made of woven elastic with hook-and-loop-closure. Black color.

Description	Size	Item No.
Single Strap	Universal	3RYC4
Single Strap with Thumb Loop	Universal	3RYC6
Slide-On with Single Strap	Universal	4WV98
Slide-On with Single Strap and Thumb Loop	S/M	4WW02
Slide-On with Single Strap and Thumb Loop	L/XL	4WW03



No. H4110

ergodyne

ProFlex® Back Supports

Spandex body material and stretchable bias binding with zig-zag stitching. With hook-and-loop closure and adjustable, detachable suspenders. Nos. H4111 and H4110 feature nonconductive Sticky Fingers® stays and Power Panel Positioners™. No. H4110 has V-shaped design.

Description	W	▶CHOOSE: Size	Item No.
280 Denier	8¾"	Universal	31XW92
	8"	XS, S, M, L, XL, 2XL, 3XL, 4XL	H4111
840 Denier	8½"	XS, S, M, L, XL, 2XL, 3XL, 4XL	H4110



No. D0585



No. D0581



No. D0586

Back Supports

Condor

Elastic Knit Supports—Elastic construction provides gentle compression and warmth for a more comfortable fit.

Spandex Supports—Spandex fabric is breathable and provides firm support for a more comfortable fit. Nos. D0581 and D0588 feature stretchable bias binding for greater flexibility, a wider range of motion, and a more comfortable fit.

Weight-Lifter's Style Support with Lumbar Pad—Feature more support, less flexibility, and a restricted range of motion compared to other back supports. Ideal for use in heavy lifting applications.

Description	W	Suspenders	Closure Type	▶CHOOSE: Size	Item No.
Elastic Knit Supports with Adjustable Shoulder Strap Guide					
2 Support Stays	7½"	1½" Detachable Knit Elastic	Hook-and-Loop	M, L, XL, 2XL	D0585
	9"	1½" Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0584
6 Support Stays	9"	1½" Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL	D0591
Elastic Knit Supports					
4 Support Stays	8"	1½" Detachable	Hook-and-Loop	S, M, L, XL	D0718
4 Support Stays, Hi-Vis Orange Body	8"	1½" Detachable Knit Elastic	Hook-and-Loop	M, L, XL, 2XL	D0587
5 Support Stays	9⅜"	1½" Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0589
Spandex Support with Adjustable Shoulder Strap Guide					
840 Denier, 4 Stays	9"	1½" Woven Elastic	Hook-and-Loop	S, M, L, XL, 2XL	D0581
Spandex Supports					
280 Denier, 4 Stays	8"	1½" Detachable Knit Elastic	Hook-and-Loop	Universal	1UM53
	8"	1½" Detatchable Knit Elastic	Hook-and-Loop	S, M, L, XL	D0582
	8"	1½" Detachable Knit Elastic	Hook-and-Loop	S, M, L, XL, 2XL	D0588
Weight-Lifter's Style Support with Ventilated Lumbar Pad					
Mesh Outer Shell	8"	None	Hook-and-Loop	S, M, L, XL	D0586
Weight-Lifter's Style Support with Removable Lumbar Pad					
Elastic Knit with 5 Stays, and Adjustable Shoulder Strap Guide	9"	1½" Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0592
Weight-Lifter's Style Support with Foam Core Lumbar Pad					
Polyester Mesh with Stay and Adjustable Shoulder Strap Guide	9"	1½" Knit Elastic	Double Overlap	Universal	3RVA8
Polyester Knit	6"	None	Torque Ring	S, M, L, XL, 2XL	D0717
	6"	None	Cam Buckle	S, M, L, XL, 2XL	D0715
600 Denier Nylon	8"	None	Hook-and-Loop	S, M, L, XL, 2XL	D0583

Establishing an Electrical Safety Work Program

OSHA 29 CFR 1910.333(a) states that employers must employ safety-related work practices to prevent electrical shock or other injuries resulting from either direct or indirect electrical contact. The **NFPA 70E Standard for Electrical Safety in the Workplace** requires employers to perform an **Electrical Arc Hazard Assessment** for each situation.

A hazard assessment must be performed using 1 of the following 2 methods:

1. Incident Energy Analysis
2. Arc Flash PPE Category

The **Grainger Online SafetyManager® System** offers NFPA 70E Electrical Safety Training - 2015 Series to help you keep your workplace in compliance with the NFPA 70E Electrical Safety standard. Access our library of **easy-to-follow training courses** (subscription required), including Training Module 4: Personal Protective Equipment and Clothing requirements, as well as **helpful technical articles** at **grainger.com/safetymanager**

Protective Clothing and Personal Protective Equipment Table 130.7(C)(16)

Arc Flash Category*	Minimum ATPV Rating cal./cm²	Required Garments	Required Protective Equipment
1	4	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
2	8	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield and Balaclava; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
3	25	Shirt (Long Sleeve) (AR); Pants (Long) (AR); Coveralls (AR); Flash Suit Jacket (AR); Flash Suit Pants (AR); Flash Suit Hood, Gloves, Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
4	40	Shirt (long sleeve) (AR); Pants (Long) (AR); Coveralls (AR); Flash Suit Jacket (AR); Flash Suit Pants (AR)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)

** 1 of the 2 methods used to determine the PPE category for a job task. AN = As Needed (Optional), AR = As Required, SR = Selection Required.*

SALISBURY by Honeywell

No. D0672



Pro-Wear® Electrical Arc Flash Protective Apparel Kits

- Meet ASTM F1506 and NFPA 70E standards, except Nos. J6808 and J6809 meet NFPA 70E only

Made from arc flash resistant material. Sewn with Nomex® thread, except Nos. J6808 and J6809. Kits Nos. J6808 and J6809 feature a total fabric weight of 11 oz./yd.² compared to the standard 40 calorie garment with a fabric weight of 18 oz./yd.². The lighter fabric helps keep you cooler and improves comfort without compromising safety.

Includes	PPE Category	ATPV Rating	▶CHOOSE: Size	Color	Mfr. Model	Item No.
Coverall Kits						
Coveralls, Balaclava, Hard Hat with 10 cal./cm² Arc Flash Faceshield, Safety Glasses, and Storage Bag	2	8.0 cal./cm²	M, 3XL, L, XL, 2XL	Navy	SKCA8	**D0672**
	2	12.0 cal./cm²	L, XL, 2XL, M, 3XL	Navy	SKCA11	**D0674**
Arc Flash Premium Lightweight Coat (No Hood), Hood, Hard Hat, Salisbury Storage Bag, Safety Glasses	4	40.0 cal./cm²	S, M, L, XL, 2XL, 3XL, 4XL	Green	SK40PL	**J6808**
Arc Flash Premium Lightweight Coat (No Hood), Hood, Bib, Hard Hat, Storage Bag, Safety Glasses, Cooling System	4	40.0 cal./cm²	S	Green	SK40PLTS-SPL-C	**J6809**
Task Light Kit						
Clip	2			Black/Orange	FLKIT	**5YGK3**

NATIONAL SAFETY APPAREL®



Protera® Electrical Arc Flash Protective Apparel Kits

- Meet ASTM F1506 and NFPA 70E standards

Convenient kit for easy transport. DuPont™ Protera material is inherently flame-resistant and its protection cannot be washed out or worn away.

Includes	PPE Category	ATPV Rating	▶CHOOSE: Size	Color	Mfr. Model	Item No.
Coverall Kits						
Coverall, Arc Flash Balaclava, Hard Hat with 10 cal./cm² Faceshield, Safety Glasses, Faceshield Bag, and Storage Bag	2	8.5 cal./cm2	M, L, XL, 2XL, 3XL	Khaki	KIT2CVPR08B	**D0761**

CPA CHICAGO PROTECTIVE APPAREL

No. J6799



Electrical Arc Flash Protective Apparel Kits

- Meet NFPA 70E standard, except No. J6474 meets ASTM F1506 and NFPA 70E

Garments are a cotton/nylon blend, except No. J6474 is single layer UltraSoft® cotton/nylon fabric for more comfortable wear, and No. J6799 is TuffWeld® fabric that provides inherent FR protection with greater comfort and durability. Kits include a gear or storage bag that helps keep items close at hand and eases kit transport.

Includes	PPE Category	ATPV Rating	▶CHOOSE: Size	Color	Mfr. Model	Item No.
Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses, Coverall	2	12.0 cal./cm²	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Navy	AG12-CV-NG	**J6474**
Arc Flash Coat, Bib Overalls, Hood, Hard Hat, Storage Bag, Safety Glasses	4	40.0 cal./cm²	M, L, 2XL, 3XL	Gray	SK40-SPL	**J6805**
Arc Flash Coat, Bib Overalls, Hood, Hard Hat, Storage Bag, Safety Glasses	4	40.0 cal./cm²	XL	Gray	SK40XL-SPL	**J6812**
Arc Flash Coat, Bib Overalls, Pro-Hood™, Hard Hat, Storage Bag, Safety Glasses	4	100.0 cal./cm²	M, L, XL, 2XL, 3XL	Khaki	SK100-SPL	**J6799**

Find more Arc Flash Protection information on page 1707.


Coveralls


Coat


Bib Overalls


Overpants


Hood

Pro-Wear® Electrical Arc Flash Protective Apparel

SALISBURY by Honeywell

- Meets ASTM F1506 standards

Pro-Wear® 8, 12, and 40 cal./cm² garments are made from arc flash resistant material, sewn with Nomex® thread. 100 cal./cm² garments are made from a proprietary layered fabric and sewn with flame-resistant Nomex® thread.

Coveralls—Full cut with set-in sleeves, expansion back, hook-and-pile front closure, 2-ply Nomex® wristlets, and adjustable pant cuff gussets.
- Meet NFPA 70E standards

Coats—For use with PRO-HOOD® Nos. 5EU30, 3YA98, and 2NNG2. Expansion back. Dual-stage front closure with plastic zipper, hook-and-pile storm flap, and Nomex® wristlets. 32"L.
- Meet NFPA 70E standards

Bib Overalls—Relaxed cut, integrated suspenders, adjustable hook-and-pile waist straps, and pant cuff gussets.
- Meet NFPA 70E standards

Overpants—Flared legs and loose design with elastic waistband allow pants to be easily taken on and off and fit over existing clothing. Hook-and-pile cuff adjustment and front closure.
- Meet NFPA 70E standards

Hoods—Included universal air system allows safe, easy breathing.
- Meet ASTM F2178 standards

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
8.0 cal./sq cm - PPE CAT 2				
Coveralls	M, L, XL, 2XL, 3XL	Navy Blue	ACCA8BL	**D0687**
Bib Overalls	M, L, XL, 2XL, 3XL	Navy	ACB830BL	**D0685**
Overpants	M, L, XL, 2XL, 3XL	Navy	ACP830BL	**D0683**
12.0 cal./sq cm - PPE CAT				
Overpants	3XL	Blue	ACP1130BL3X	**D0692**
12.0 cal./sq cm - PPE CAT 2				
Coveralls	M, L, XL, 2XL, 3XL	Navy Blue	ACCA11BL	**D0696**
Bib Overalls	M, L, XL, 2XL, 3XL	Navy	ACB1130BL	**D0694**
Overpants	M, L, XL, 2XL	Navy	ACP1130BL	**D0692**
40.0 cal./sq cm - PPE CAT 4				
Coats	M, L, XL, 2XL, 3XL	Gray	ACC4032GY	**D0698**
Bib Overalls	M, L, XL, 2XL, 3XL	Gray	ACB4030GY	**D0701**
Hood	Universal	Gray	FH40GY-C-SPL	**426M42**
100.0 cal./sq cm - PPE CAT 4				
Coats	M, L, XL, 2XL, 3XL	Khaki	ACC10032TW	**D0703**
Bib Overalls	M, L, XL, 2XL, 3XL	Khaki	ACB10030TW	**D0705**
Hood	Universal	Khaki	FH100TW-C-SPL	**426M50**


Coveralls


Bib Overalls


Coat


Hood


CrossVent™ Hood

Protera® Electrical Arc Flash Protective Apparel

NATIONAL SAFETY APPAREL®

- Meets ASTM F1506 and NFPA 70E standards

DuPont™ Protera material is inherently flame-resistant and its protection cannot be washed out or worn away. 8 cal./cm² coverall is constructed from a lightweight 6½ oz. Protera material. 40 cal./cm² flashsuit features a multilayer combination of Protera, Kevlar®, and Nomex® material that is 30% lighter than flame-resistant cotton/nylon blend garments, reducing the risk of heat stress.

Coveralls—2-way covered zip-front closure, hidden snap closures on breast pockets, 2 rear and 2 front pockets, and elastic waist. 32" inseam.
- NFPA 2112 certified

Coats—Stand-up collar with hook-and-loop placket closure and knit wrists. 32"L.

Bib Overalls—Easily adjustable shoulder straps. 2 pockets and hook-and-loop fly and calf closure. 30" to 32" inseam.

Hood—Includes faceshield and universal hard hat adapter.
- Meets NFPA 70E-2015, ASTM F2178-12, and OSHA 1910.269

CrossVent™ Hood—Lightweight and washable hood provides a quiet breeze that cools and decreases lens fogging. Internal fans are attached with FR hook-and-loop for ease of removal for laundering. Includes two 9V batteries.
- Meets NFPA 70E-2015, ASTM F2178-12, and OSHA 1910.269

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
8.5 cal./sq cm - PPE CAT 2				
Coveralls	M, L, XL, 2XL, 3XL	Khaki	C88LI	**D0766**
	S	Khaki	C88LISM30	**D0766**
40 cal./cm$_2$- PPE CAT 4				
Bib Overalls	M, L, XL, 2XL, 3XL	Khaki	C45LIQT	**D0772**
	S	Khaki	C45LIQT40SM32	**D0772**
40.0 cal./cm² - PPE CAT 4				
Coats	M, L, XL, 2XL, 3XL	Khaki	C04LIQT	**D0769**
	S	Khaki	C04LIQT40SM32	**D0769**
Hood	Universal	Khaki	H65LIQTHH40	**2NNN7**
CrossVent™ Hood	Universal	Khaki	H65LIQTFAN40	**5YGR5**

Find more Arc Flash Protection information on page 1707.

NATIONAL SAFETY APPAREL® SALISBURY by Honeywell Condor BRADY

Electrical Arc Flash Protective Accessories

- Tested to ASTM F2178 and NFPA standards

Head Protection Kits, PPE CAT 2—Provide total head protection for NFPA 70E PPE CAT 2 in 1 convenient kit. Antifog faceshield provides an excellent field of view.

Weight Balancing Arc Flash Faceshields, PPE CAT 2—Sit in a balanced, compact position, centered over top of hard hat when not needed. Faceshields provide a clear view and full color recognition.

Arc Goggle and Balaclava—High-energy arc goggle and carbon OPF blend fiber balaclava (sold separately) are designed to be worn in combination for ATPV arc rating of 53 cal./cm².

Note: Not approved for NFPA 70E-2015.

Insulating Aprons—Insulated 42"L rubber aprons protect workers from low-voltage electrical hazards. Made of high-strength reinforced rubber. Include 2 Nomex® bib straps and 2 Nomex waist straps with nonmetallic buckles. Meet ASTM F2320 standards.

Hair and Beard Nets—Made of woven Nomex® fabric. Meet ASTM F1506 standards.

Storage Bags and Backpack—Faceshield Storage Bag features a fleece lining and a drawstring closure. Canvas Storage Bag holds arc flash clothing and accessories. Backpack is made of water- and abrasion-resistant reinforced fabric. Features interior and exterior reinforced compartments with flap closures, integrated handle, and padded, adjustable straps.

Description	ATPV Rating	Brand	Mfr. Model	Item No.
Head Protection Kits, PPE CAT 2				
Faceshield with Chin Cup, Hard Hat, Balaclava, Safety Glasses, and Storage Bag	10.0 cal./cm²	NSA	KITHP	**41H941**
	12.0 cal./cm²	NSA	KITHP12	**41H942**
	20.0 cal./cm²	NSA	KITHP20	**41H943**
Weight Balancing Arc Flash Faceshields, PPE CAT 2				
Arc Flash Faceshield	12.0 cal./cm²	Salisbury	AS1200-SPL	**458P08**
Arc Flash Faceshield with Hard Hat	—	Salisbury	AS1200HAT-PPC	**458P15**
Weight Balancing Arc Flash Faceshield Accessories				
Chin Protector	—	Salisbury	AS12CLR-SPL	**458P22**
Cold Weather Antifog Inner Lens	12.0 cal./cm²	Salisbury	AFLENS	**5YGK4**
Task Light Kit				
Clip	—	Salisbury	FLKIT	**5YGK3**
Arc Goggle and Balaclava				
Goggle	—	NSA	H10GGLNN	**4FPE6**
Balaclava, PPE CAT4, Black	53.0 cal./cm²	NSA	H49CX	**4FPE7**
Insulating Aprons				
Class 00	—	Salisbury	APR00	**5YGK6**
Class 0	—	Salisbury	APR0	**5YGK7**
Class 1	—	Salisbury	APR1	**5YGK8**
Hair and Beard Nets				
Hair Net	2.4 cal./cm²	Salisbury	HN-1	**1XDW3**
Beard Net	2.4 cal./cm²	Salisbury	BN-1	**1XDW4**
Storage Bags and Backpack				
Faceshield Storage Bag	—	Condor	—	**5EU22**
Storage Bag	—	Condor	—	**3YB15**
Backpack	—	Salisbury	SKBACKPACK	**4FPG9**
Safety Poster				
Legend: Preventing Arc Flash Injuries	—	Brady	104571	**3DVZ9**


No. 41H941


No. 458P15


Nos. 4FPE6 and 4FPE7


No. 5YGK6


No. 3YB15


No. 4FPG9



No. 3DVZ9

Leather Arc Flash Gloves

YOUNGSTOWN #1 IN DURABILITY

- Meet NFPA 70E-2015 standard and OSHA 29 CFR Part 1926

Made of 18 oz./yd.² goatskin leather, with an ergonomic design for a comfortable fit with excellent dexterity. Reinforced fingers, saddle, palm, and knuckle improve durability and protection for the wearer. No. J0410 has a slip fit cuff for secure fit and is arc rated 27 cal/cm². No. G6920 has a 4" cuff for wrist protection and is arc rated 20.8 cal/cm².

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
Ground Glove	M, L, XL, 2XL	Tan	12-3265-60	**J0410**
Utility Plus	—	Tan	11-3245-60	**G6920**


No. J0410


No. G6920

Dielectric Overshoes and Overboots

SALISBURY by Honeywell

- Meet ASTM F1117 and ASTM F1116 standards

100% waterproof rubber. Feature pole climbing reinforcement patch and nonskid bar tread outsole. Overboots are 14"H, full cut, and have an attached nonmetallic buckle.

Note: Men's sizes are shown unless specified.

Description	▶CHOOSE: Size	Item No.
Overshoes	9, 10, 11, 12, 13, 14	**D0707**
Overboots		**D0708**


No. D0707


No. D0708

Find more Arc Flash Protection information on page 1707.




Cowhide Leather Protectors


Goatskin Leather Protectors

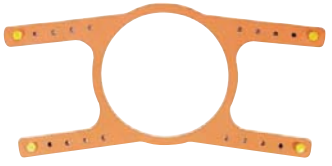

Molded Sleeve



Glove Kit



Canvas Glove Bag


Sleeve Harness


Glove Inflator Kit



Glove Dust

SALISBURY by Honeywell | Ansell | Condor

Rubber Insulating Gloves and Accessories

RUBBER INSULATING GLOVES

- Meet ASTM D120, IEC EN60903, and NFPA 70E standards

Protect against electrical shock. Gloves should be tested every 6 months in accordance with ASTM F496, "Standard Specification for In Service Care of Insulating Gloves and Sleeves" at an authorized safety equipment testing facility.

Note: Switching glove colors assures all gloves are in the proper test cycle per OSHA and ASTM requirements. Every time a new pair of gloves is used, the colors need to be alternated. Alternate colors by using 1 color for the first test period and a different color for the second test period. Example: Red Class 00 gloves are worn for first test cycle period, then Black Class 00 gloves are worn during the second test cycle period. Class 1, 2, and 3 gloves feature an exterior and interior color for easier inspection of tears.

ASTM Voltage Chart

Class No.	AC Test Voltage	AC Max. Use Voltage†
00	2500V	500V
0	5000V	1000V
1	10,000V	7500V
2	20,000V	17,000V
3	30,000V	26,500V

† AC maximum use voltage in accordance with ASTM specifications.

LEATHER PROTECTORS

- Meet ASTM F696 standard

Top-grain leather protects rubber insulating gloves against physical damage. Goatskin is soft, pliable, and offers greater abrasion resistance than cowhide.

MOLDED SLEEVES

- Meet ASTM D1051 standard

Natural rubber. Curved arm style. Type I.

GLOVE KITS

Convenient kits include 1 pr. of rubber insulating gloves with goatskin leather protectors and canvas glove bag.

ACCESSORIES

Canvas Glove Bags—Designed for temporary storage of gloves and protectors. Belt clip for glove bag included.

Sleeve Harness—Holds sleeves securely in place with buttons. Color may vary.

Glove Inflator Kit with Adapter—Field-inspect gloves in a wide range of sizes, including those in Class 0 and Class 00. Includes inflator, adapter, carrying bag, and nylon fastening strap.

Glove Dust—Cooling frictionless powder absorbs moisture and perspiration inside rubber gloves.

Class No.	▶CHOOSE: Size	▶CHOOSE: Color	L	Brand	Mfr. Model	Item No.	
Rubber Insulating Gloves, Leather Protectors, Molded Sleeves, and Glove Kits							
Rubber Insulating Gloves							
00	7, 8, 9, 10, 11	Black, Red	11"	Salisbury	E0011	**D1023**	
00	7, 8, 9, 9½, 10, 10½, 11	Blue	11"	Salisbury	E0011BL	**D1024**	
00	7, 8, 9, 10, 11, 12	Black, Red, Yellow	11"	Ansell	CLASS 00 11	**H5859**	
0	7, 8, 8½, 9, 10, 11	Black, Red	11"	Salisbury	E011	**D1025**	
0	7, 8, 9, 10, 11	Blue	11"	Salisbury	E011BL	**D1026**	
0	7, 8, 9, 10, 11, 12	Black, Red, Yellow	11"	Ansell	CLASS 0 11	**H5858**	
1	7, 8, 9, 10, 11	Black Exterior/ Red Interior	14"	Salisbury	E114RB	**D1032**	
Leather Protectors, Cowhide							
—	7, 8, 9, 10, 11	White	10"	Condor	—	**D1035**	
—	7, 8, 9, 10, 11	Beige/Orange/Green	12"	Condor	—	**D1037**	
—	7, 8, 9, 10, 11	Beige/Orange	15"	Condor	—	**D1039**	
Leather Protectors, Goatskin							
—	8, 9, 10, 11	White	10"	Condor	—	**D1036**	
—	7, 8, 9, 10, 11	White	10"	Condor	—	**E4079**	†
—	7, 8, 9, 10, 11	White/Orange/Green	12"	Condor	—	**D1038**	
—	7, 8, 9, 10, 11	White/Orange/Green	15"	Condor	—	**D1041**	
Molded Sleeves							
2	Regular	Black	26½"L, 15½"L Underarm"	Salisbury	2RB	**J6796**	
2	L	Black	27¾"L, 16"L Underarm"	Salisbury	2LB	**5ZV77**	
2	XL	Black	29½"L, 17½"L Underarm"	Salisbury	2XLB	**J6796**	
Glove Kits							
00	7, 8, 9, 10, 11	Black, Red	11"	Salisbury	GK0011	**D1027**	
00	7, 8, 9, 10, 11	Blue	11"	Salisbury	GK0011BL	**D1028**	
0	7, 8, 8½, 9, 9½, 10, 10½, 11, 12	Black, Red	11"	Salisbury	GK011	**D1029**	
0	7, 8, 9, 10, 11	Blue	11"	Salisbury	GK011BL	**D1031**	
Accessories							
Canvas Glove Bag, 12"				Condor	—	**4AJ28**	*
Canvas Glove Bag, 14"				Condor	—	**4T498**	*
Canvas Glove Bag, 18"				Condor	—	**5T101**	*
Sleeve Harness				Salisbury	H1	**5ZV92**	*
Glove Inflator Kit with Adapter				Salisbury	G100	**1FYP4**	*
Glove Dust 5-oz.				Salisbury	10-4	**5ZV62**	*

** Priced and sold individually. † Features pull strap on cuff.*

SALISBURY
by Honeywell

Find more Arc Flash Protection information on page 1707.

Electrical Protection Equipment

LINE HOSES

Type II ozone-resistant rubber remains flexible in cold weather. Safety orange color.

INSULATING BLANKETS AND ACCESSORIES

Fabric-reinforced Type II ozone-resistant Salcor® rubber is flexible and customizable.

Roll—Clear PVC Roll Blanket No. 5EU29 allows visibility of insulated surfaces.

Low-Voltage—Feature hook-and-loop fasteners for fast installation and safe removal. Yellow color.

Eyelet Style—Reinforced beaded edges for added strength and tear resistance. Designed to be easily secured using Clamp Pin No. 5ZV66 (sold separately). Safety orange color.

Slotted Style—Designed for flexibility in special cover-up situations. Use where protruded objects interfere with proper placement of other cover-up devices.

Magnetic Blanket Button—Apply with shotgun stick or rubber gloves to eyelets of insulating blankets.

Blanket Clamp Pin—Holds insulating blankets in place.

Blanket Canisters—Molded, high-impact orange polyethylene canisters protect insulating blankets in storage.

ARC PROTECTION BLANKETS

- Meet ASTM F2676 standard

Provide barrier protection from exposure to explosive electrical arcs and flashes. Nos. 5YGL0 and 5YGL2 include loops for keeping blanket in place; Nos. 5YGL1 and 5YGL3 include grommets. Not electrically insulating.

GROUNDING SETS AND ACCESSORIES

Easy to apply multiple grounding jumpers. Recommended for 3-phase wye systems. Canvas Bag No. 5ZV85 available separately.

VOLTAGE DETECTOR KITS

Audio/visual indicator verifies live or de-energized conductors and equipment. Operate on 3 C cell batteries. Case and shotgun adapter included.

HOT SWITCH STICKS AND STORAGE CONTAINER

Storage Container—Tubular weathertight PVC container includes 2 mounting brackets and 4 bolts.

Hot Switch Sticks—Closed cell foam-filled tubular fiberglass.

- Meet ASTM F711 standard

SWITCHBOARD MATTING

Type II, ¼"-thick corrugated rubber for protection in front of switchgears, motor control centers, and other high-voltage apparatus.

Description	Mfr. Model	Item No.
Line Hoses		
4½ ft. L with 1½" Dia. Connector, Class 3, 26.5kV	OR150-45C	**5ZW01**
6 ft. L with 1½" Dia. Connector, Class 3, 26.5kV	OR150-6C	**5ZW02**
Insulating Blankets and Accessories		
Roll, 3 x 30 ft., Brown, Class 00, 500V	RLB00	**3KWU9**
Roll, 3 x 30 ft., Yellow, Class 0, 1000V	RLB0	**3GY62**
Roll, 3 x 30 ft., Clear, Class 1, 7500V	RLBPVC1	**5EU29**
Low-Voltage, 1½ x 3 ft., Yellow, Class 0, 1000V	1836YLV	**5ZV63**
Low-Voltage, 3 x 3 ft., Yellow, Class 0, 1000V	3636YLV	**5ZV80**
Eyelet Style, 36" x 36", Orange, Class 4, 36kV	900E	**5ZV86**
Slotted Style, 22" x 22", Orange, Class 4, 36kV	15	**5ZV65**
Slotted Style, 36" x 36", Orange, Class 4, 36kV	1300	**5ZV64**
Magnetic Blanket Button	MB6	**5ZV99**
Blanket Clamp Pin, 9½" L	21	**5ZV66**
Blanket Canister 5" x 37", Holds 1 to 2 Blankets	P2	**5ZW03**
Blanket Canister, 7" x 37", Holds 1 to 4 Blankets	P4	**5ZW05**
Arc Protection Blankets		
48" x 60", 15kA	ARC45-15PS	**5YGL0**
48 "x 96", 15kA	ARC48-15PS	**5YGL2**
48" x 60", 40kA	ARC45-40PS	**5YGL1**
48" x 96", 40kA	ARC48-40PS	**5YGL3**
Grounding Sets and Accessories		
4-Way Set with Socket Clamp, 2/0 Cable, 3-6 ft., 1-10 ft.	24307	**5ZV73**
4-Way Set with 1½" C-Clamp, 2/0 Cable, 3-6 ft., 1-10 ft.	24308	**5ZV74**
Single Set with 1½" C-Clamp, 2/0 Cable, 6 ft.	24309	**5ZV75**
Single Set with 2" C-Clamp Flat Jaw Clamp, 2/0 Cable, 6 ft.	24310	**5ZV76**
Canvas Bag, 20"L x 5½"W x 15½"H	620	**5ZV85**
Voltage Detector Kits		
Tester - 240V to 230kV	4356	**5ZV84**
Self Tester - 240V to 230kV	4556	**3KWX6**
Hot Switch Sticks and Storage Container		
Hot Switch Stick, Std. Prong, 1¼" x 8 ft.	9935	**5ZV87**
Hot Switch Stick, Universal Head, Std. Prong, 1¼" x 8 ft.	4215	**5ZV83**
External Rod Clampstick, 6 ft. 8"L	4009	**5ZV81**
Rescue Hook, 6 ft.	24401	**3GY61**
Rescue Hook, 8 ft.	24403	**3KUX5**
Static Discharge Stick	20817	**3GY63**
Storage Container, 9 ft. L x 6" I.D.	4169	**5ZV82**
Switchboard Matting		
2 x 3 ft. Class 2, 17,000V	M24-1Y	**5ZV93**
2 x 6 ft., Class 2, 17,000V	M24-2Y	**5ZV94**
30" x 3 ft., Class 2, 17,000V	M30-1Y	**5ZV96**
30" x 6 ft., Class 2, 17,000V	M30-2Y	**5ZV97**
30" x 9 ft., Class 2, 17,000V	M30-3Y	**5ZV98**



Eyelet Style Insulating Blanket
No. 5ZV86



Magnetic Blanket Button
No. 5ZV99



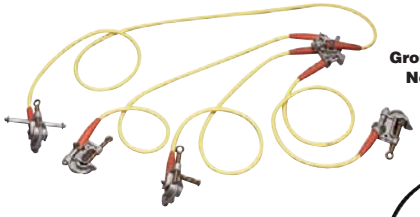
Blanket Clamp Pin
No. 5ZV66



Blanket Canister
No. 5ZW03



Arc Protection Blanket
No. 5YGL0



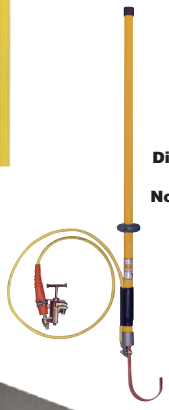
4-Way Grounding Set
No. 5ZV74



Rescue Hook
No. 3GY61



Voltage Detector Kit
No. 5ZV84



Static Discharge Stick
No. 3GY63



Switchboard Matting
No. 5ZV93



Excel FR® Work Shirt No. G7306



Excel FR® ComforTouch® Dungaree No. G7289

Flame-Resistant Shirts and Pants

Note: Additional sizes, including long lengths, are available on Grainger.com®.

BULWARK EXCEL FR® SHIRTS
- Excel FR Work Shirts: PPE CAT 1, arc rating ATPV 7.7 cal./cm²
- Excel FR ComforTouch® Shirts: PPE CAT 2, arc rating ATPV 8.6 cal./cm²

Feature flame resistance for the life of the garment. Long sleeve with banded, topstitched collar, tailored sleeve plackets, and topstitched cuffs with adjustable button closures.

BULWARK HI-VIS FR SHIRTS
- Button Down Shirt: arc rating ATPV 8.6 calories/cm²
- Crewneck Shirt: arc rating EBT 10 calories/cm²

Front and back with 2" silver reflective striping. Button Down Shirts have comfortable Ultrasoft® fabric and a high-visibility upper half for ANSI compliance.

BULWARK HI-VISIBILITY ZIP-FRONT HOODED FLEECE SWEATSHIRTS WITH WAFFLE LINING
- Arc rating ATPV 35 cal./cm²

Front and back feature 2" flame resistant heat seal silver reflective striping. Zipper front and comfortable waffle knit lining.

BULWARK IQ SERIES® FR PERFORMANCE HENLEY SHIRT
- Arc rating ATPV 8.2 cal./cm²

Rugged Westex G2™ fabric is breathable and moisture wicking to help keep you cooler and drier.

EXCEL FR COMFORTOUCH® UNIFORM SHIRTS
- Arc rating 8.6 cal./cm²

Durable Comfortouch cotton/nylon fabric with 2 chest pockets having button flap closures and sewn-in pencil stall.

EXCEL FR® HENLEY SHIRTS
- Arc rating ATPV 9.6 cal./cm²

Single spade chest pocket, knit henley collar, and rib-knit cuffs.

HI-VISIBILITY WORK SHIRTS
- Arc rating ATPV 8.4 cal./cm²

Front and back with 2" silver reflective striping. Button front, 2 chest pockets with button closures, and sewn-in pencil stall.

NOMEX® IIA UNIFORM SHIRTS
- Arc rating ATPV 4.8 cal./cm²

Two chest pockets with button flap closures and sewn-in pencil stall.

NSA LONG SLEEVE T-SHIRTS
- Arc rating ATPV 4.0 cal./cm²

Moisture-wicking fabric aids in heat stress and can proactively regulate your body temperature.

EXCEL FR® COMFORTOUCH® DUNGAREES
- Arc rating ATPV 14.6 cal./cm²

Durable, triple-needle felled outseam, button closure, and 5 jean-style pockets. Handy rule pocket and utility pocket on right leg; hammer loop and utility pocket on left leg.

BULWARK FLAME RESISTANT EXCEL FR® COMFORTOUCH® PANTS
- Arc rating ATPV 12.2 cal./cm²

Button closure with 2 slack-style front pockets, 2 set-in hip pockets, and a left hip pocket with button closure.

Description	Style No.	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Bulwark Excel FR®				
Button-Front Work Shirts	SEW2	S, M, L, XL, 2XL, 2XL Long, 3XL, 3XLT	Navy, Khaki, Light Blue, Silver Gray	**G7306**
ComforTouch® Button-Front Work Shirts	SLW2	S, M, XL, L, 2XL, 2XLT, 3XL, 3XLT	Navy, Light Blue, Khaki	**G7308**
Bulwark Hi-Vis FR				
Bulwark Button Down Hi-Vis FR	SLB4HG	M, L, XL, 2XL, 3XL	Yellow/Gray	**J6794**
Bulwark Hi-Visibility Zip-Front Hooded Fleece Sweatshirt with Waffle Lining				
Flame-Resistant Hooded Sweatshirt	SMZ4HV	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	**J6393**
Bulwark iQ Series® FR Performance Wear Henley Shirts				
Long Sleeve	QT20	S, M, L, XL, 2XL, 3XL, 4XL	Khaki, Black, Blue, Charcoal, Dark Blue, Red	**J2394**
Excel FR®				
ComforTouch® Uniform Shirts	SLU2	S, M, L, XL, 2XL, 2XLT, 3XL	Khaki, Navy, Light Blue, Blue	**D1295**
Excel-FR® ComforTouch® Uniform Shirts, 6 oz.				
Regular Length Button Front Shirts	SLU8	M, L, LT, XL, XLT, 2XL, 2XLT, 3XL	Khaki, Navy, Light Blue	**G7302**
Excel-FR® Henley Shirts, 6.5 oz.				
Regular Length	SEL2	S, M, L, LT, XL, XLT, 2XL, 2XLT, 3XL	Gray, Orange, Navy	**D1302**
Hi-Visibility Work Shirts, 7 oz.				
Button Front Shirts	SMW4HV	M, L, LT, XL, XLT, 2XL, 2XLT	Hi-Visibility Yellow/Green	**D9268**
Nomex® IIIA Uniform Shirts, 4.5 oz.				
Button Front Shirts	SND2	S, M, MT, L, LT, XL, XLT, 2XL, 2XLT, 3XL	Tan, Navy	**D1703**
NSA Long-Sleeve T-Shirts, 5.5 oz.				
HRC 1, ATPV Rating 4 cal./cm²	C52FKSRLS	S, M, L, XL, 2XL, 3XL, 4XL	Navy	**H3393**

Description	Fits Waist Size	Inseam	Brand	Item No.
Excel FR® ComforTouch® - 11.5. oz.				
Dungarees	32", 34", 36", 38", 40", 42", 30"	30", 32", 34"	Bulwark	**G7289**
Bulwark Flame Resistant Excel FR® ComforTouch™ Pants				
Flame Resistant 9 oz. Twill Blue Pants	32", 38", 34", 36", 40", 42", 50"	32", 34"	Vf Imagewear	**E6999**



Excel-FR® Flame-Resistant Work Pants

- PPE CAT 2
- Arc rating ATPV 10.6 cal./cm²
- Midrise cotton pants have a slim seat and tapered leg for a good fit. 5 pockets: 2 slack-style front pockets, 2 set-in hip pockets, and left hip pocket with button closure. Innerlined waistband has button closure.

Style No.	▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
Work Pants				
PEW2	28", 29", 30", 31", 32", 33", 34", 35", 36", 38", 40", 42", 44", 46", 48", 50"	30", 32", 34"	Charcoal, Khaki, Navy	**D1309**



▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Henley Shirts		
M, L, XL, 2XL, 3XL	Navy, Khaki	**D1053**

NATIONAL SAFETY APPAREL®

Flame-Resistant Henley Shirts

- PPE CAT 2
- Arc rating ATPV 12 cal./cm²
- Meets ASTM F1506, NFPA 70E standards, and OSHA 1910.269

Breathable 6.25-oz. 100% FR cotton shirts provide comfort. Ribbed collar, ribbed cuffs, and 3-button neck placket.

BIG BILL FR

High-Visibility Flame-Resistant Coveralls



- PPE CAT 2
- Arc rating ATPV 8.7 cal./cm²

Designed for comfort, safety, and convenience out of comfortable, durable Westex® UltraSoft® cotton/nylon fabric with a pleated back. High-visibility 3M™ Scotchlite™ reflective, flame-resistant tape plus 2-way concealed DuPont™ Nomex® taped brass zipper front closure, snap at waistband front, 2-snap collar closure, and 1-pc. cuff with 2 hidden snaps. 2 chest pockets with hidden snap flap closure at left side, 2 back pockets, and a tool pocket on the right leg.

▶CHOOSE: Fits Chest Size	Inseam	Color	Item No.
34" to 36", 38" to 40", 42" to 44", 46" to 48", 50" to 52"	32", 34"	Navy	H5828

Flame-Resistant Insulated Jackets and Parkas

Bulwark FR



Excel-FR® ComforTouch® Bomber Jackets—Can be worn in all seasons. Deep-pleated back allows mobility. Snap closures are concealed and zippers have guards for safety. 2 large external patch pockets with hand warmers, inside chest pocket, and tunneled elastic waistband provide convenience and comfort. Twill cotton/nylon water-repellent outershell is long-lasting, comfortable, and flame-resistant for garment's lifetime.

- PPE CAT 3
- Arc rating ATPV 30.4 cal./cm²

Excel-FR® ComforTouch® Parkas—Deep-pleated back allows mobility. 2-way separating, heavy-duty Nomex® taped brass zipper. Snap closures and zippers are concealed for safety. Fully insulated stand-up collar and knit storm cuff with hook-and-loop suppression tabs. 3 large patch pockets with hand warmers in lower pocket, inside chest pocket, sleeve pocket, elastic inserts at waist across back, and internal snow belt.

- PPE CAT 3
- Arc rating ATPV 34 cal./cm²

Style No.	▶CHOOSE: Size	Color	Item No.
Bomber Jackets			
JLJ8	S, M, L, LT, XL, XLT, 2XL, 2XLT, 3XL	Navy	D1314
Parkas			
JLP8	S, M, L, LT, XL, XLT, 2XL, 2XLT, 3XL	Navy	D1325

carhartt

Flame-Resistant Cotton Duck Jackets

- Meet NFPA 70E and 2112

Flame-Resistant Duck Active Jacket/Quilt Lined No. H9746—Features a sturdy brass front zipper with Nomex® FR zipper tape, and has inside and outside protective flaps with hook-and-loop closure for electric arc protection. The 2 inside patch pockets have FR hook-and-loop closures. Tough 13-oz., 100% cotton FR duck with 11.5-oz. FR quilt lining constructed of FR modacrylic batting quilted to FR twill face cloth. Attached quilt-lined hood with adjustable Nomex FR draw cord.

- Arc rating ATPV 54.3 cal./cm²

Flame-Resistant Duck Bomber Jacket/Quilt Lined No. H9748—Tough brass front zipper with Nomex® FR zipper tape, and has inside and outside protective flaps with hook-and-loop closure for electric arc protection. Jacket has 2 inside patch pockets come with FR hook-and-loop closures. Durable 13-oz., 100% cotton FR duck and 11.5-oz. quilt lining constructed of FR modacrylic batting quilted to FR twill face cloth.

- Arc rating ATPV 54.3 cal./cm²

Flame-Resistant Duck Coat/Quilt Lined No. H9745—Durable 2-way brass zipper with Nomex® FR zipper tape, and has inside and outside protective flaps with hook-and-loop closure for electric arc protection. The 2 inside patch pockets have FR hook-and-loop closures. Tough 13-oz., 100% cotton FR duck and 11.5-oz. quilt lining constructed of FR modacrylic batting quilted to FR twill face cloth. Under-the-collar snaps for FR hood, sold separately.

- Arc rating ATPV 54.3 cal./cm²



No. H9746



No. H9748



No. H9745

▶CHOOSE: Color	▶CHOOSE: Size	Style No.	Item No.
Flame Resistant Duck Active Jacket Moda-Quilt			
Carhartt® Brown, Dark Navy	S, M, L, LT, XL, XLT, 2XL, 2XT, 3XL, 3XT, 4XL	101621	H9746
Flame Resistant Duck Bomber Jacket Moda-Quilt			
Carhartt® Brown, Dark Navy	S, M, L, LT, XL, XLT, 2XL, 2XT, 3XL, 3XT, 4XT, 5XL, 5XT	101623	H9748
Flame Resistant Duck Coat Moda-Quilt			
Dark Navy, Carhartt® Brown	S, M, L, LT, XL, XLT, 2XL, 2XT, 3XL, 3XT, 4XL	101618	H9745



No. 5EU42



No. 2NNJ8



No. 52VR34



No. 18X780



No. 48Z859



No. 2YRH8



No. H0186



No. H0187

Arc-Rated Flame-Resistant Headwear

Meet your workplace electrical safety program requirements by selecting personal protective headwear based on the arc flash category (PPE CAT), arc thermal protective value (ATPV), fabric, and style.

Description	PPE CAT	ATPV Rating	Color	Brand	Mfr. Model	Item No.
Balaclavas						
Nomex® Poly Fleece	2	9.7 cal./cm2	Black	Ergodyne	6825	**16W664**
Lenzing®/Nomex®	2	10.0 cal./cm2	White	Salisbury	AFHOOD10	**5EU42**
Indura® UltraSoft® Cotton/Nylon	2	12.0 cal./cm2	Navy Blue	NSA	H11RY	**2NNJ8**
Nomex®	2	12.0 cal./cm2	Blue	Salisbury	AFHOOD12	**52VR34**
Kermel®/Viscose/Beltron Interlock Knit	2	12.2 cal./cm2	Blue	Helly Hansen	79892	**18X780**
Lenzing®/P84/Nomex®	2	20.0 cal./cm2	Beige	Salisbury	AFHOOD20	**5EU44**
Carbon OPF Blend, Double Layer	3	30.0 cal./cm2	Black	NSA	H18CX	**2YRJ1**
Fleece-Liners with Hook-and-Loop Closure and 2 Warming Pack Pockets						
Modacrylic with Detachable Upper and Lower Sections	2	17.0 cal./cm2	Black	Ergodyne	6885	**48Z859**
Modacrylic, Shoulder Length	2	20.0 cal./cm2	Black	Ergodyne	6882	**48Z858**
Knit Hoods						
Nomex® Single Layer	—	—	White	NSA	H12NK	**2YRJ2**
Nomex®/Rayon® Double Layer	—	—	White	NSA	H31LK	**2YRJ3**
Nomex® Double Layer	—	—	White	NSA	H31NK	**2YRH8**

Disposable Secondary Flame-Retardant Coveralls

Zip-front coveralls help preserve and protect primary flame-resistant garments from nonhazardous particles and liquids. Won't ignite and contribute to burn injury. Blue color.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Collared Coveralls, Open Wrists and Ankles			
3XL, 4XL, 5XL, 6XL	TM120S	**H0186**	25
Hooded Coveralls, Elastic Wrists and Ankles			
3XL, 4XL, 5XL, 6XL, 7XL	TM127S	**H0188**	25
Hooded Coveralls, Elastic Wrists and Attached Socks			
3XL, 4XL, 5XL, 6XL	TM122S	**H0187**	25

Flame-Resistant Clothing



No. 38RL34



No. E9417

SLEEVE

- Meets ASTM D6413-13

Comfortable and washable, this flame-resistant sleeve helps protect your upper arm from sparks in light welding applications. Fits easily into welding glove cuffs and has an elastic top and wrist for a more comfortable fit. The anti-static Weldlite™ fabric is rot and mildew resistant, and it preserves its flame resistance for up to 50 home or 25 commercial washings. Sold by the pair.

JACKET

This cool, comfortable, and washable jacket offers protection from sparks in light welding applications. Relaxed fit helps provide all day comfort, and it has adjustable snap wrists and a large inside pocket. The anti-static Weldlite™ fabric is rot and mildew resistant, and it preserves its flame resistance for up to 50 home or 25 commercial washings. The leather-reinforced, black anodized snaps are non-reflective.

Color	▶CHOOSE: Size	Style No.	Item No.
Flame-Resistant Sleeve Cotton, 18" L, 9 oz.			
Green	Universal	1034-18EE	**38RL34**
Welding Jacket 100% 12 oz. Flame-Resistant Cotton with Snaps			
Green	M, L, XL, 2XL, 3XL	1038	**E9417**

Heat-Reflective Aluminized Clothing

- Reflects up to 95% radiant heat

STEEL GRIP®

5-ply Dual Mirror® construction provides wear resistance, reflectivity, and resistance to molten metal splash. 15-oz. aluminized PFR Rayon (ARL) fabric is used for short-term exposure. 19-oz. aluminized Thermonol (ATH) is a Kevlar®/fiberglass fabric for long-term contact.

Jackets—Feature laydown collar and semi-raglan sleeves. Covered front snaps with wrist snap closure. Seams are serged and stitched with Kevlar®.

Hoods and Replacement Faceshield—Include swing-open, clear 7" x 11" Lexan® facepiece. Adjustable ratchet suspension.

Gloves—Kevlar® blend gloves have an aluminized back to reflect radiant heat and a wool lining for thermal protection and protect up to 900°F intermittent handling.

Bib Aprons—Adjustable web neck and waist straps attach with clip snap and D-ring fasteners. All edges are serged.

NSA®

Aluminized Carbon Kevlar® fabric provides excellent thermal insulation and maximum protection against molten metal splash, including molten iron and aluminum.

Coats—Feature front snap closures with back flap and underarm eyelets for ventilation. Split sleeve with snap closures.

Hood—Fitted hood allows hard hat use. Extended bib provides chest, back, and shoulder coverage. Adjustable leather shoulder straps fasten under armpits and secure the hood in place. Lens/faceshield clips on aluminum frame. Features a gold film that radiates heat.

Sleeves—Snap wrist closure and open top.

Gloves—Heat- and abrasion-resistant gloves with open-palm style and reversed wool lining for thermal protection.

Bib Apron—Adjustable leather straps on the neck and at the waist fasten with a buckle and snap to secure the apron in place.



No. D1263



No. 5T338

Description	▶CHOOSE: Size	Item No.
Steel Grip®		
15-oz. Aluminized PFR Rayon		
Jacket, 35" Length	L, XL, 2XL	**D1263**
Hood w/Ratchet Headgear	Universal	**5T326**
Bib Apron	24" x 39"	**5T338**
19-oz. Aluminized Thermonol		
Jacket, 35" Length	L, XL, 2XL	**D1265**
Hood w/Ratchet Headgear	Universal	**5T336**
Gloves, Pair	Universal	**5T328**
Bib Apron	24" x 39"	**5T339**
Accessories		
Replacement Faceshield for Hood Nos. 5T326 and 5T336	Universal	**5T327**
Heat Cover Pad for Gloves Nos. 6AD64 and 5T328	Universal	**2AV46**
NSA®		
19-oz. Aluminized Carbon Kevlar®		
Coat, 45" Length	M, L, XL, 2XL	**D1269**
Hood	Universal	**2YRL4**
Sleeves, Pair	Universal	**2YRL3**
Gloves, Straight Thumb, Pair	Regular	**3PWH2**
Gloves, Winged Thumb, Pair	Universal	**3GAF2**
Bib Apron	24" x 36"	**2YRK7**



No. D1269



No. 2YRL4



No. 3GAF2


No. 2AG83


No. 4KXH1


No. 4KXH3


No. 5T179


No 4KXH6


No. 5T180


No. 5T176


No. 1H158

Leather Welding Clothing

Made from Kevlar®-sewn select cowhide. Steel rivet reinforcements are added to critical areas for increased wear.

Jacket—30" length provides full protection. Features underarm and back vents. Satin arm and shoulder lining for easy on/off.

Aprons—1-pc., split cowhide waist aprons provide long-lasting waist-to-knee protection.

Bib Apron—Provides chest-to-knee protection. Secured around the neck and waist with webbing and snap buckle.

Detachable Bib—Extends to the waist. 1-pc. select cowhide bib attaches to cape sleeves (sold separately) with 4 snaps. Secured around the waist with belt and snap buckle.

Bib Aprons, Split Leg—Premium cowhide aprons have 2 adjustable nylon straps per leg.

Chaps—Adjustable-waist (20" to 50") leather chaps have snaps on each leg.

Sleeves—Secure with snaps at wrist and bicep with an adjustable strap. Priced and sold per pair.

Cape Sleeves—Cover arms, shoulders, and upper torso.

Welding Cap—100% cotton reversible cap with elastic sides and soft bill. Patterned on 1 side and a solid black color on the other side. Washable.

Description	Size	Item No.
Jacket	XL	2AG83
	L	2AJ40
	M	2AZ36
	2XL	6AF88
Aprons	24 x 18"	4KXH1
	24 x 24"	4KXH2
Bib Apron	24 x 36"	5T179
Detachable Bib	19 x 20"	5AC71
Bib Aprons, Split Leg	24 x 36"	4KXH3
	24 x 42"	4KXH4
	24 x 48"	4KXH5
Chaps	40" Long	4KXH6
Sleeves	Universal	5T180
Cape Sleeves	L	5T176
	XL	5T177
Welding Cap	Universal	1H158


No. D2608


No. D9246

Welding Jackets

- Meet ASTM D6413-10

9-oz. flame-retardant cotton jackets have leather-reinforced metal snaps and inside pocket. Pro-Series No. D2608 has an adjustable, stand-up mandarin collar and 2 pencil/scribe pockets. Weldlite Plus™ Nos. D2607 and D9246 have leather sleeves for added protection.

Description	▶CHOOSE: Size	Color	Item No.
Jacket	S, M, L, XL, 2XL, 3XL	Black	D2608
Jacket with Leather Sleeves	S, M, L, XL, 2XL, 3XL	Green/Gray	D2607
	S, M, L, XL, 2XL	Orange/Brown	D9246



TuffWeld® Welding Jacket

8½-oz. aramid/rayon blend is lighter than FR cotton, provides superb wicking, and offers superior protection and flame resistance, even after repeated laundering. Features front snap closures, shirt-style collar, and inside breast pocket. 30"L.

▶CHOOSE: Size	Item No.
M, L, XL, 2XL	D2373

Carbonized-Fiber Flame-Resistant Clothing

Carbonized fiber provides the best protection available as a single-layer garment. Performs better than traditional flame-retardant cotton material.

Jacket—Lightweight modern design with adjustable stand-up mandarin collar and a relaxed full-cut fit and elongated front for greater freedom of movement. Breathable and washable. With 2 pockets. Large inside pocket and snap front closure. Nomex® sewn.

Bib-Style Apron—Combines heavy-duty protection and durability with lightweight comfort and dexterity. Sewn with Nomex® thread. Features neck strap and adjustable waist straps.

Sleeves—Knit sleeves Nos. 4FRT5 and 4FRT6 significantly increase thermal protection in high-heat applications. Woven sleeves Nos. 4FRT1, 4FRT2, 4FRT3, and 4FRT4 protect from sparks, splatter, and flame in light to medium welding applications.

Description	▶CHOOSE: Size	Item No.	
Jacket			
10-oz.	S, M, L, XL, 2XL, 3XL	**D9274**	
Bib-Style Apron			
10-oz.	24" x 36	**6ACK0**	
CF Series Sleeves			
Knit	18"L	**4FRT5**	*
Knit with Thumbhole	18"L	**4FRT6**	*
Woven with Wide Elastic Band	18"L	**4FRT1**	*
	23"L	**4FRT2**	*
Woven with Standard Elastic Band	18"L	**4FRT3**	*
	23"L	**4FRT4**	*

**** Priced and sold as a pair.***



No. D9274



No. 6ACK0



No. 4FRT5



No. 4FRT1



No. 4FRT3

Flame-Retardant Cotton Welding Jacket

100% cotton jacket offers good spark protection in light welding applications; rot- and mildew-resistant Weldlite™ cotton maintains its flame resistance for up to 50 home washings or 25 commercial washings. Has a relaxed fit for comfortable all-day wear. With snap-front and adjustable snap wrist. Large inside pocket. 30"L.

Description	▶CHOOSE: Size	Item No.
9-oz.	M, L, XL, 2XL	**E9416**

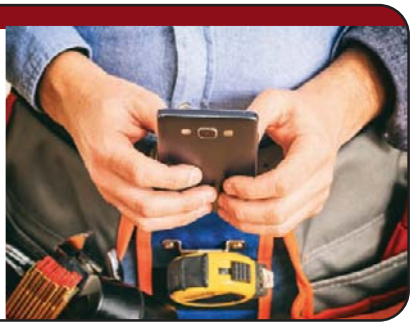


DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.





No. J4981

Insulated Jacket

- Black color

Constructed with 12-oz. cotton outer fabric and insulated with 6-oz. quilted polyester. Attractive styling with lay down corduroy collar and brass zippers on chest pocket. Include 2 lower welt pockets, inside pocket/cell pocket, and pencil pocket on sleeve. Excellent fit with 2 adjustable waist tabs and adjustable shank button closure on cuff.

▶CHOOSE: Size	Item No.
Work Jacket	
S, M, L, XL, 2XL, 3XL	**J4981**



Quilt-Lined Jacket

Versatile, midlength, JT38 jacket stands up to industrial laundering and has a rib knit collar, cuffs, and waistband; 2 lower inset slash pockets; and a utility pocket on left sleeve. Shell is 7¼-oz., 65% polyester/35% cotton twill. 100% polyester permanent black quilted lining.

▶CHOOSE: Size	Color	Item No.
JT38 Quilt-Lined		
S, M, L, XL, 2XL, 3XL, 4XL	Navy	**G0617**



Quilted Freezer Jacket

Quilted polyester jacket has a zip-front closure, drop back, knit collar and cuffs, and inside pocket.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
M, L, XL, 2XL, 3XL, 5XL, L Tall, XL Tall, 2XL Tall	Black, Navy	**J7409**

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready




No. H4968


No. H4969

RefrigiWear

Iron-Tuff™ Insulated Jacket and Bib Overalls

- Comfort rating: -50°F

Made of 420-denier nylon with 11¼-oz. high-loft polyester fiberfill insulation, this outerwear provides water-repellent, wind-tight protection from the elements. Storm flaps, bound seams, and insulated pockets provide additional protection. Jacket has heavy-duty knit cuffs, draft-sealing elastic back band, and fleece collar. Bib overalls have a high front and back and adjustable, heavy-duty elastic suspenders.

▶CHOOSE: Fits Chest Size	▶CHOOSE: Color	Item No.
Jacket		
34" to 36", 38" to 40", 42" to 44", 46" to 48", 50" to 52", 54" to 56", 58" to 60", 62" to 64	Navy, Sage	**H4968**
▶CHOOSE: Fits Waist Size	**▶CHOOSE: Color**	**Item No.**
Bib Overalls		
28 to 30", 32 to 34", 36 to 38", 40 to 42", 44 to 46", 48 to 50", 52 to 54", 56 to 58"	Navy, Sage	**H4969**


No. H4947


No. H4948

RefrigiWear

ComfortGuard™ Insulated Jacket and Bib Overalls

- Comfort rating: -10°F
- Black color

Outerwear has a rugged 100% cotton denim outer shell with a weather-resistant, water-repellent finish and 7½-oz. midloft polyester fiberfill insulation. Jackets have a storm flap over the zipper, heavy-duty knit cuffs, and hand warmer pockets for additional protection from the elements. Bib overalls have 2-way hip-length leg zippers, adjustable suspenders, and an interior waist drawcord.

▶CHOOSE: Fits Chest Size	Item No.
Jacket	
34" to 36", 38" to 40", 42" to 44", 46" to 48", 50" to 52", 54" to 56", 58" to 60"	**H4947**
▶CHOOSE: Fits Waist Size	**Item No.**
Bib Overalls	
28 to 30", 32 to 34", 36 to 38", 40 to 42", 44 to 46", 48 to 50", 52 to 54"	**H4948**



Bomber Jacket

XPLORO THERMAL READY!

- Comfort rating: -20°F
- Black color

Lightweight, durable outerwear is designed to wear in freezer units or outdoors. 420-denier nylon outer shell with a polyurethane coating for extra strength and waterproofing and 200g polyester quilted insulation for warmth. Jacket has knit cuffs to help seal out the weather, fleece collar, 2 front pockets with zippers, and a waterproof inside pocket.

▶CHOOSE: Fits Chest Size	Item No.
Bomber Jacket	
34" to 36", 38" to 40", 42" to 44", 46" to 48", 50" to 52", 54" to 56", 58" to 60", 62" to 64	**H4966**



Bib Overalls

TOUGH DUCK

Bib overalls are lined with 6-oz. quilted polyester insulation for warmth. Reinforced knees, cuffs, and trim for durability; pockets at knee for knee pads. 2-way covered leg zippers from ankle to hip. Adjustable shoulder straps and turned under hem for a 3" extension.

▶CHOOSE: Fits Waist Size	▶CHOOSE: Color	Item No.
Bib Overalls		
32 to 34", 36 to 38", 40 to 42", 43 to 45", 46 to 48"	Black, Navy	**H4959**



Dickies

Hooded Cotton Duck Jackets

Sturdy jackets are tough, 10-oz. duck, 100% cotton shell with a nylon/polyester 6-oz. fill lining for warmth. Hooded and water repellent to help keep you dry on the jobsite, with rib knit cuffs and waistband for a comfortable fit and to help keep out the cold. Easy-to-adjust pull cord hood and convenient hand warmer pockets.

▶CHOOSE: Size	Item No.
M, L, LT, XL, XLT, 2XL, 2XLT, 3XL, 3XLT, 4XL, 5XL, 6XL	H4080



Tough Duck

Duck Bomber Jackets

Tough 100%, 12-oz. cotton with quilted 5-oz. polyester insulation. Feature knit waist and cuffs to help keep out drafts and an attached hood with drawstring. 2 chest pockets, 2 front scoop pockets, an inside pocket, and cell pocket.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Navy, Brown, Black	G7407



J001
No. D7564

carhartt

Insulated Duck Jackets and Coats

FIRM-HAND DUCK

100% ringspun 12-oz. cotton duck made with plied (double) yarns for extra durability.

J001 - Detroit Jackets, Blanket Lined—Feature corduroy-trimmed collar, left chest pocket with zipper closure, inside pocket, 2 lower-front pockets, and snap-adjustable cuffs and waist.

J131 - Active Jackets, Thermal Lined—Attached thermal-lined hood with drawcord closure. 2 inside pockets, 2 large lower-front pockets, and rib-knit cuffs and waistband.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Firm-Hand Duck			
J001 - Detroit Jackets, Blanket Lined			
Regular	2XL, 3XL, 4XL, M, L, S, XL	Black, Brown	D7564
Tall	L, XL, 2XL, 3XL	Brown	D7564
J131 - Active Jackets, Thermal Lined			
Regular	S, M, L, XL, 2XL	Black, Brown	E8041
Tall	L, XL, 2XL, 3XL	Black, Brown	E8041



Tough Duck

Insulated Bib Overalls

These insulated bib overalls are 100%, 12-oz. cotton with a seam-sealed waterproof seat, waterproof double knees, and double front legs. The heavy-duty, 2-way leg zippers open from ankle to hip. The turned-under hem allows for 3" tall extension. Additional features include elasticized adjustable shoulder straps, a chest pocket with a pencil slot, a loss-proof chest pocket for your cell phone, and an elasticized back waist.

▶CHOOSE: Fits Waist Size	Color	Item No.
29 to 31", 32 to 34", 36 to 38", 40 to 42", 43 to 45", 46 to 48", 49 to 51", 52 to 54"	Navy, Brown, Black	G7412



R27
No. D2565

carhartt

Insulated Duck Bib Overalls

R27 - QUILT LINED

100% 12-oz. cotton duck made with plied (double) yarns; microsanded and garment washed. Lined with a midweight, quilted nylon polyester. Double knees with cleanout bottoms accommodate kneepads, and ankle-to-knee leg zippers with storm flap. Feature several tool and utility pockets, including reinforced back pockets and a hammer loop.

▶CHOOSE: Fits Waist Size	Inseam	▶CHOOSE: Color	Item No.
R27 - Quilt Lined			
34", 36", 38", 40", 42", 44", 46", 48"	28"	Brown	D2565
34", 38", 40", 44", 46", 48", 42", 50", 36"	28", 30", 32", 34"	Brown, Dark Brown	D2567
34", 36", 38", 40", 44", 46", 48", 50"	30"	Brown	D2566
34", 36", 38", 40", 42"	34"	Brown	D2568



No. H4988

Dickies

Long-Sleeve Coveralls

Rugged coveralls let you handle the toughest chores. Feature a generous fit in shoulders and chest, bi-swing back for full range of motion, and elastic inserts at the waist that expand for a more comfortable fit. Heavy-duty, 2-way front brass zipper.

Basic Blended—Durable yet breathable poly-cotton twill resists fading, stains and wrinkles. Coveralls have concealed snaps at neck and waist, handy chest pockets for phone, and large back pockets bar-tacked for durability. Ruler/tool pocket on right leg.
- 7.75 oz. twill; 65% polyester, 35% cotton
- Style No. 48611

Deluxe Cotton—All-cotton fabric with stain release finish to ease cleaning. Chest pockets and back left pocket have brass zippers and the dual pockets on the right leg help keep small tools close at hand. Snaps at sleeve and leg cuffs help keep debris out. Hammer loop on left leg and pencil pocket on left sleeve.
- 100% cotton rugged twill
- Style No. 48700

Deluxe Blended—Poly-cotton twill is durable yet breathable, and resists fading, wrinkles, and stains. Concealed snaps at neck, waist, and cuffs, plus back left and chest pockets have brass zippers. Handy dual tool pockets on right leg, hammer loop on left.
- 7.75 oz. twill; 65% polyester, 35% cotton
- Style 48799

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
Basic Blended Coveralls			
42", 38", 34", 46", 50", 54", 58"	31", 33"	Dark Navy	H4079
Deluxe Cotton Coveralls			
34 to 36", 38 to 40", 42 to 44", 46 to 48", 50 to 52", 54 to 56"	31", 33"	Navy, Gray	H4988
Deluxe Blended Coveralls			
42", 38", 46", 34", 50", 54", 58"	31", 33", 29', 35"	Black, Dark Navy, Gray	H4068



No. E8387



No. D2369

RED KAP 1923

Coveralls

Durable-press 65% polyester/35% combed cotton fabric has soil release and wickable finish to ease cleaning. Action-back design features 2-way brass zipper closure and 1-pc. topstitched collar.

CT30—Insulated coveralls feature a quilted lining and adjustable take-up leg snaps that let you choose your desired length and coverage. Also have a gripper at lapel, 2 set-in front pockets, 2 angled zippered chest pockets, 2 patch hip pockets, 1-pc. rule pocket, and a handy utility pocket on the left sleeve.
- 7.25 oz. twill

CP40—Short sleeves help provide comfort in warmer weather and the elastic waist provides a more comfortable fit. Also have 2 chest pockets (right pocket with functional flap), 2 set-in front pockets, and 2 patch hip pockets.

▶CHOOSE: Fits Chest Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
CT30 Coveralls			
34" to 36", 38" to 40", 42" to 44", 46" to 48", 50" to 52"	30"	Navy Blue	E8387
CP40 Coveralls			
36" to 38", 40" to 42", 42" to 44", 44" to 46", 46" to 48", 48" to 50", 50" to 52", 52" to 54", 54" to 56"	31", 33"	Navy Blue	D2369

Chain Saw Chaps

- Stop chains up to 2750 fpm
- Measure from waist to top of foot

Condor®—Outer layer is 1000-denier Cordura® nylon treated with a PTFE coating to repel oil, water, and dirt. Waist belt adjusts approx. 25" to 50". Include utility pouch and quick-release buckles for easy on and off.
- Meet ASTM F1897-2008 and ASTM F1414

Elvex® ProChaps™—Polyurethane-coated outer shell is windproof and water-resistant. Feature quick-buckling, 45"L x 1½"W nylon web waist belt and 1"W leg straps. Zippered front pocket. Nos. 3MCH7 and 3MCJ3 have 420-denier nylon cover and 2 sets of quick-release buckles. No. 3MCK4 has 1000-denier Cordura® nylon cover and 3 sets of quick-release buckles.

Condor ELVEX

L	Mfr. Model	Item No.
Condor®		
34"	—	6AJ60
38"	—	5AN17
42"	—	5AD18
Elvex® ProChaps™		
33"	JE-9033	3MCH7
36"	JE-90	3MCJ3
36"	JE-94	3MCK4 *

** Cordura® material.*



No. 5AN17



No. 3MCH7


No. H4984


No. J4787 (Front)


No. J4787 (Back)


No. J4853 (Front)


No. J4853 (Back)

Work Shirts and Polos

Industrial Work Shirts—Shirts feature 2 front pockets with button closure and a 2-pc. collar with permanent stays and a snap closure. 65% polyester/35% cotton poplin fabric is fade-resistant and industrial-wash friendly.

Original Fit Work Shirts—A generous fit across the shoulder helps with freedom of movement. 2 mitered front pockets with flap and button closure. 65% polyester/35% cotton twill fabric has stain release and moisture-wicking properties.

Performance Shop Polo Shirts—Stylish polos are made from 6-oz. performance knit, 100% polyester fabric that resists wrinkles, is moisture wicking, and can stand up to industrial laundry machines. Shirts also feature easy-care, stain release properties and resist snags.

Performance Shop Shirts—Button-down shirts feature a wrinkle-resistant, moisture-wicking flex fabric that stretches for easy movement during long days in the shop. Fabric also features easy care, stain release and color retention properties for increased durability. Also easily washes and dries quickly in industrial laundry machines. Include adjustable cuffs and a front pencil pocket.

Description	Style No.	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Industrial Work Shirts				
Short-Sleeve	LS535	S, M, L, XL, 2XL, 3XL, 4XL, 5XL L Tall, XL Tall, 2XL Tall, 3XL Tall	Black, Khaki, Navy	H4982
Long-Sleeve	LL535	S, M, L, XL, 2XL, 3XL, 4XL, 5XL M Tall, L Tall, XL Tall, 2XL Tall, 3XL Tall		H4984
Original Fit Work Shirts				
Long-Sleeve	574	S, M, L, XL, 2XL, 3XL M Tall, L Tall, XL Tall, 2XL Tall, 3XL Tall, 4XL Tall	Black, Khaki, Navy	H4980
Performance Shop Polo				
Short-Sleeve	LS606	S, M, L, XL, 2XL 3XL, 4XL, 5XL	Black English Red, Black Smoke, Dark Navy Smoke, Smoke Black	J4787
Long-Sleeve	LL606	S, M, L, XL, 2XL, 3XL, 4XL, 5XL M Tall, L Tall, XL Tall, 2XL Tall, 3XL Tall	Black English Red, Black Smoke, Dark Navy Smoke	J4855
Performance Shop Shirt				
Short-Sleeve	LS605	S, M, L, XL, 2XL, 3XL, 4XL, 5XL M Tall, L Tall, XL Tall, 2XL Tall, 3XL Tall	Black English Red, Black Smoke, Dark Navy Smoke, Smoke Black	J4854
Long-Sleeve	LL605	S, M, L, XL, 2XL, 3XL, 4XL, 5XL M Tall, L Tall, XL Tall, 2XL Tall, 3XL Tall		J4853


No. G0614


No. G0615


No. D2381

Work Shirts

Men's Dress Uniform Shirts—Feature 65% polyester/35% cotton fabric with Touchtex™ technology for durability, superior color retention, and wickability for greater comfort. Shirts have 2 button-through pockets (No. G0614 has flapped pockets) with angled bartacks, plus a sewn-down pencil stall on the left pocket. The 7-button front closure includes a button at the neck. The 2-pc., lined, banded, and topstitched collar has sewn-in stays. No. G0614 has short sleeves, No. G0615 has long sleeves.

Men's Industrial Work Shirt—Features 65% polyester/35% cotton fabric with Touchtex™ technology for superior color retention, a wickable finish for greater comfort, and long life. Short-sleeve shirt has 2 button-through, hex-style pockets with angled bartacks, plus a bartacked pencil stall on the left pocket. The 6-button front closure includes a gripper at the neck. The 2-pc., lined collar comes with sewn-in stays.

Men's Denim Shirt —Western-style shirt with tough, heavyweight 100% cotton fabric. Long-sleeve shirt comes with 2 large pockets with simulated pearl gripper closures, plus a bartacked pencil stall on the left pocket. Front closure has 6 pearl-style snaps plus a button at the neck. The 2-pc., lined, banded, and topstitched collar has sewn-in stays.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Men's Solid Dress Uniform Shirt	S, M, L, LT, XL, 2XL, 3XL	Petrol Blue, White	G0614
Men's Striped Dress Uniform Shirt	S, M, L, LT, XL, 2XL, 3XL	Petrol Blue, White	G0615
Denim Shirt Long Sleeve	S, M, L, XL, 2XL, 3XL, 4XL	Blue Denim	D2381

Work Pants and Jeans

Dickies

INDUSTRIAL WORK PANTS
▪ Style No. 2112272

Multiple pockets include deep, reinforced front pockets and left back pocket with button closure. Feature wide belt loops. Durable pants are made of 65% polyester/35% cotton vat-dyed wrinkle-resistant twill that is industrial-wash friendly and has stain release properties. Relaxed fit.

TRADITIONAL WORK PANTS
▪ Style No. 874

Work pants have a center crease for a professional look. Printed waistband for comfort. Details include tunnel belt loops and 4 pockets (2 front and 2 welt back pockets; back left pocket has button closure). 65% polyester/35% cotton wrinkle-resistant twill has stain release properties. Original fit.

PAINTER'S PANTS
▪ Style No. 1953

Pants are designed to fit over work boots. They have triple-stitched felled seams for durability. Details include multiple tool pockets, hammer loops, rule pocket on right leg, and double back pocket. 100% cotton painter's drill. Relaxed fit.

PREMIUM INDUSTRIAL CARGO PANTS
▪ Style No. 2112372

Durable cargo pants have a gusseted crotch and wide belt loops. Features reinforced front pockets and 2 cargo pants with hidden zipper closure; extra pockets on outside left cargo pocket and inside right cargo pocket. 65% polyester/35% cotton vat-dyed twill. Relaxed fit.

PERFORMANCE SHOP PANTS
▪ Style No. LP605

Feature 6 multifunctional pockets from cell to bellow. Back pockets are angled for easy access. These durable pants sit slightly below waist, have a straight leg and provide extra room in seat and thigh areas. Comes equipped with StayDark® technology and feature moisture wicking abilities along with contour yoke for ease of movement. Made of 65% polyester/35% cotton this flexible, wrinkle-resistant twill has stain release properties and is industrial wash friendly. Heavy CB belt loop and double knee has opening for kneepad. Relaxed fit.

CARPENTER JEANS
▪ Style No. LU200

Tough, heavyweight denim fabric with triple-needle stitching on the side seam, yoke, and seat seam for long life. Straight-leg style with a relaxed fit that sits slightly below the waist with extra room in the seat and thigh for a more comfortable fit. Include a hammer loop and dual tool pockets. The pre-washed denim is durable enough to withstand industrial laundering.


No. H4972


No. H4974


No. H4977


No. H4971


No. H6041

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
Industrial Work Pants - 5 pockets			
30", 32", 34", 36", 38", 40", 42"	30", 32", 34"	Black, Desert Sand, Navy	**H4972**
Industrial Work Pants - 4 pockets			
30", 32", 34", 36", 38", 40", 42"	30", 32", 34"	Black, Desert Sand, Navy	**H5687**
Traditional Work Pants			
30", 32", 34", 36", 38", 40", 42", 44"	30", 32", 34"	Black, Desert Sand, Navy	**H4974**
Painter's Pants			
30", 32", 34", 36", 38", 40", 42", 44"	30", 32", 34"	White	**H4977**
Premium Industrial Cargo Pants			
30", 32", 34", 36", 38", 40", 42"	30", 32", 34"	Black, Desert Sand, Navy	**H4971**
Performance Shop Pants			
30", 32", 34", 36", 38", 40", 42"	30", 32", 34"	Black, Dark Navy	**J4785**
Carpenter Jeans			
30", 32", 33", 34", 36", 38", 40", 42", 44", 46"	30", 32", 34"	Indigo	**H6041**

RED KAP 1923

Relaxed-Fit Jeans

▪ Style No. PD60

Heavyweight 13.75-oz. prewash cotton denim jeans feature traditional 5-pocket styling with more room in the seat and thigh. Metal button and brass zipper closure.



▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	Color	Item No.
30", 32", 34", 36", 38", 40", 42", 44", 46", 48"	32", 34", 44"	Indigo	**D2386**

H/H workwear

Chelsea Construction Pants

▪ Style: 76488

Lightweight and highly durable, yet comfortable for all day use. Jeans feature Cordura® fabric 1% polyamide-reinforced knee, bottom hem, and hanging pockets for long life. Designed with a gusseted crotch for greater durability and movement, plus a raised back for a comfortable fit in any position. Have 2 front pockets, 2 back pockets, 2 hanging pockets in Cordura fabric with double bottom for long life, polyester loops for screwdrivers and pliers, thigh pocket with flap, and a handy ruler pocket. Versatile jeans come with extendable leg length for varying body shapes, adjustable kneepad position for a more comfortable fit, and reflective material for added visibility. 79% cotton, 21% polyester, with reinforced 100% Cordura fabric.



▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	Color	Item No.
32", 34", 36", 38", 40"	32", 34"	Black	**J2828**

ANSI High-Visibility Safety Apparel Information

Conspicuity classes specify visibility and other requirements for warning vests or other apparel, based on the wearer's activities and the environment. The classes describe the amount and placement of reflective material, vest style, and background material. For further information, see Quick Tip #153: High-Visibility Clothing Standards at grainger.com/quicktips.

PERFORMANCE CLASS 1 (TYPE O)
Offers the minimum amount of high-visibility material to differentiate the wearer from non-complex work environments and is only appropriate for off-road (Type O) environments.

PERFORMANCE CLASS 2 (TYPE R OR P)
Provides additional amounts of high-visibility material that allow for better definition of the human form. Performance Class 2 is considered the minimum level of protection for workers exposed to roadway rights-of-way and TTC (temporary traffic control) zones.

PERFORMANCE CLASS 3 (TYPE R OR P)
Provides greater minimum level of high-visibility material that the apparel must contain. Performance Class 3 provides more visibility to the wearer in both complex backgrounds and through a full range of movement by the required placement of backgroud, retroreflective, and combined performance materials on the sleeves and pant legs (if present). A garment or vest without sleeves worn alone is not considered Class 3 protection.


No. J6035


No. J6026


No. J6029


No. J6042

ANSI-Rated Safety Vests

- Meet ANSI 107-2015

Help keep your workers safe by selecting ANSI rated safety vests appropriate to the task and environment. Vests feature reflective edging to improve low-light visibility. 2-tone stripes are silver with an additional color for increased visibility. Expandable side closure lets the wearer adjust the side straps for a comfortable fit.

Polyester Mesh—Lightweight and breathable.

Polyester Tricot—Wrinkle-resistant and durable, with high color retention.

Vest Material	Vest Closure Type	Back Stripe Pattern	▶CHOOSE: Color	▶CHOOSE: Stripe Color Family	▶CHOOSE: Vest Size	Item No.
Type R, Class 2						
Polyester Mesh	Hook-and-Loop	U-Block	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6035**
Polyester	Zipper	Chevron	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6029**
	Zipper	U-Block	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6028**
Polyester Mesh	Hook-and-Loop	U-Block	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6037**
	Hook-and-Loop	X	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6026**
	Zipper	U-Block	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6027**
Type R, Class 3						
Polyester Mesh	Hook-and-Loop	U-Block	Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6042**
	Zipper	U-Block	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6041**



Breakaway Safety Vests

- Polyester mesh
- Meet ANSI 107-2015

Breakaway hook-and-loop closures will separate if the vest becomes caught on passing vehicles or heavy machinery.

Vest Material	Vest Closure Type	Back Stripe Pattern	▶CHOOSE: Color	▶CHOOSE: Stripe Color Family	▶CHOOSE: Vest Size	Item No.
Type R, Class 2						
Polyester	Hook-and-Loop	U-Block	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6033**

GA GRAINGER APPROVED

ANSI-Rated Safety Vests

- Meet ANSI-ISEA 107-2015

Help keep your workers safe by selecting ANSI rated safety vests appropriate to the task and environment. Vests feature reflective edging to improve low-light visibility. 2-tone stripes are silver with an additional color for increased visibility. Expandable side closure lets the wearer adjust the side straps for a comfortable fit.

Polyester—Wrinkle-resistant and durable, with high color retention.

Polyester Mesh—Lightweight and breathable.


No. J6012


No. J6020


No. J6019


No. J6024

Vest Material	Vest Closure Type	Back Stripe Pattern	▶CHOOSE: Color	▶CHOOSE: Stripe Color Family	▶CHOOSE: Vest Size	Item No.
Type O, Class 1						
Polyester	Hook-and-Loop	U-Block	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6013**
Polyester Mesh	Hook-and-Loop	U-Block	Orange/Red, Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6012**
Type R, Class 2						
Polyester	Hook-and-Loop	U-Block	Yellow/Green	Silver	S/M, L/XL, 2XL/3XL, 4XL/5XL	**J6017**
	Hook-and-Loop	U-Block	Yellow/Green	Silver	5XL	**J6020**
	Hook-and-Loop	U-Block with Double Horizontal Base Icon	Orange/Red	Silver	5XL	**J6019**
	Zipper	U-Block	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6020**
	Zipper	U-Block with Double Horizontal Base Icon	Orange/Red	Silver	S, M, L, XL, 2XL, 3XL, 4XL	**J6019**
Type R, Class 3						
Polyester Mesh	Zipper	U-Block	Orange/Red, Yellow/Green	Silver	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J6024**

GA GRAINGER APPROVED

Non-ANSI-Rated Safety Vests

Basic and economical safety vests for use in situations where meeting ANSI ratings are not a concern.

Polyester—Wrinkle-resistant and durable, with high color retention.

Polyester Mesh—Lightweight and breathable.


No. J6048


No. J6044


No. J6025

Vest Material	Vest Closure Type	Back Stripe Pattern	▶CHOOSE: Color	▶CHOOSE: Stripe Color Family	▶CHOOSE: Vest Size	Item No.
Unrated						
Polyester	Zipper	U-Block	Pink	Silver	3XL, Universal	**J6048**
Polyester Mesh	Hook-and-Loop	None	Orange/Red, Yellow/Green	Green/Yellow/Silver, Orange/Red/Silver	Universal	**J6044**
	Hook-and-Loop	None	Orange/Red, White, Yellow/Green	Green/Yellow/Silver, Silver, Orange/Red/Silver	Universal, 3XL	**J6025**
	Hook-and-Loop	Double Horizontal	Orange/Red	Green/Yellow/Silver	3XL	**J6025**

ANSI-Rated Safety Vests

ML KISHIGO

- Meet ANSI 107 Type P Class 2

Durable modacrylic fabric is flame resistant for added protection, has moderate resistance to abrasion, and is quick drying. Vests feature a reflective silver stripe pattern to help provide enhanced visibility at night and in low light conditions. Designed with at least 1 pocket for handy storage. Vests with hook-and-loop closure allow easy donning/doffing.


No. J6357


No. J6359


No. J6358

Vest Closure Type	▶CHOOSE: Back Stripe Pattern	▶CHOOSE: Color	▶CHOOSE: Vest Size	No. of Pockets (Inside)	No. of Pockets (Outside)	Item No.
Type P, Class 2						
Hook-and-Loop	U-Block	Orange, Lime	S/M, L/XL, 2XL/3XL, 4XL/5XL	1	4	**J6357**
Hook-and-Loop	U-Block, Chevron	Lime	S/M, L/XL, 2XL/3XL, 4XL/5XL, Universal	0	1	**J6358**
Hook-and-Loop	U-Block	Lime	S/M, L/XL, 2XL/3XL, 4XL/5XL	1	4	**J6359**



No. J5377



No. J5378

High-Visibility Shirts

TINGLEY
A TRADITION SINCE 1896

- 2" silver reflective tape
- ANSI/ISEA 107 Type R
- Meet Class 2

Sportsman Shirts—Ultra lightweight shirts are designed to be breathable and quick-drying. Long sleeve shirt includes an optional take up system to roll sleeves up and then secure at the elbow.

Polo Shirts—Lightweight pullover shirts are engineered to resist snags and pulls in the material. Collared shirt presents a more professional appearance.

Description	▶CHOOSE: Size	Color	Item No.
Sportsman Shirts			
Short-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green/Yellow	**J5376**
Long-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green/Yellow	**J5377**
Polo Shirts			
Short-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green/Yellow	**J5378**



No. H1998



No. J5375



OccuNomix

High-Visibility T-Shirts

- Meet ANSI/ISEA 107-2015 Type R Class 2

Moisture-wicking short-sleeve polyester T-shirts feature 2" silver reflective tape and left chest pocket.

▶CHOOSE: Size	Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	**H8429**

High-Visibility Jackets

TINGLEY
A TRADITION SINCE 1896

- 2" silver reflective tape

Bomber II™—Jacket has quilted lining for warmth and comfort.

- Meet ANSI/ISEA 107 Type R Class 3

Icon LTE™—Lightweight, breathable fabric provides comfort and flexibility. Features include a roll-away adjustable hood and front radio pocket with exterior badge holder.

Description	▶CHOOSE: Fits Chest Size	▶CHOOSE: Color	Item No.
Bomber II™	36" to 38", 40" to 42", 44" to 46", 48" to 50", 52" to 54", 56" to 58", 60" to 62", 64" to 66"	Yellow/Black, Orange/Black	**H1998**
Icon LTE™		Yellow/Green/Black	**J5375**



No. G7405



No. G7411

High-Visibility Insulated Jackets and Bib Overalls

WORK KING SAFETY

- Meet ANSI 107-2015 Class 3

Jackets—100% polyester jackets feature reflective striping with 4" contrast backing for excellent visibility.

No. G7405 includes a removable hi-vis liner (reverses to black) with zip-off sleeves, 2 microphone loops, several pockets including an ID pocket with hook-and-loop closure, and quick-release hard hat hood.

Bib Overalls—Waterproof, 2-pc. overalls have 2" reflective tape around legs for increased visibility. Garment has a fly front with a center snap, hook-and-loop take-up straps at the leg cuffs, and black elastic suspenders straps with divider and quick-release buckles.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
5-in-1 Jackets			
Regular	S, M, L, XL, 2XL, 3XL	Green, Orange	**G7405**
Tall	2XL, 3XL, L, XL	Green, Orange	**G7405**
Bib Overalls			
Regular	S, M, L, XL, 2XL, 2XL, 3XL, 4XL, 5XL	Black, Green, Orange	**G7411**

TINGLEY
A TRADITION SINCE 1896

High-Visibility Rainwear

- 0.35mm
- Meets ANSI/ISEA 107
- Jackets and Coats are Type R Class 3
- Overalls are Class E

Comfort-Brite® PVC rainwear resists flames, mildew, and many chemicals and features 2"W silver reflective tape. Heat-sealed seams provide 100% waterproof protection. Nonconductive hardware. Jackets and coat have zipper closure with storm-fly front and a roll-away hood. D-ring access and fully vented cape back. Bib overalls have suspenders with quick-release buckles.



No. F0797



No. F0798

Description	▶CHOOSE: Size	Color	Item No.
Jackets			
	S, M, L, XL, 2XL, 3XL	Yellow/Green	F0797
	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	E1823
Coat			
	S, M, L, XL, 2XL, 3XL	Yellow/Green	E2067
Bib Overalls			
	S, M, L, XL, 2XL, 3XL	Yellow/Green	F0798
	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	E1824

ergodyne
TENACIOUS
WORK GEAR

High-Visibility Rainwear

- Meet ANSI 107
- Jacket is Type 2 Class 2
- Pants are Class E

GloWear® rainwear outer shell is constructed of 300-denier breathable oxford polyester with polyester mesh-lined polyurethane-coated interior. Jacket has zipper front and cell phone chest pocket. Pants have elastic drawstring waist. 3M™ Scotchlite™ 2"W reflective tape is ANSI level 2 compliant.



No. D2323



No. D2324

Description	▶CHOOSE: Size		Item No.
Jacket	S, M, L, XL, 2XL, 3XL, 4XL, 5XLS, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange, Yellow/Green	D2323
Pants	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange, Yellow/Green	D2324



No. H1998



No. J5375

TINGLEY
A TRADITION SINCE 1896

High-Visibility Jackets

- 2" silver reflective tape

Bomber II™—Jacket has quilted lining for warmth and comfort.

- Meet ANSI/ISEA 107 Type R Class 3

Icon LTE™—Lightweight, breathable fabric provides comfort and flexibility. Features include a roll-away adjustable hood and front radio pocket with exterior badge holder.

Description	▶CHOOSE: Fits Chest Size	▶CHOOSE: Color	Item No.
Bomber II™	36" to 38", 40" to 42", 44" to 46", 48" to 50", 52" to 54", 56" to 58", 60" to 62", 64" to 66"	Yellow/Black, Orange/Black	H1998
Icon LTE™		Yellow/Green/Black	J5375

Condor

High-Visibility Rainwear

- Meets ANSI standards
- Jacket is Class 3
- Bib overalls are Class E

Bright color with 2"W 3M™ reflective tape.

PVC/Nylon—Jacket and coat have zip-front closure and outer storm-fly with hidden snap closures. Drawstring hood concealed in collar. Bib overalls feature adjustable elastic suspenders, leg cuffs, and elastic waist. Double heat-welded seams.

- 0.35mm



Nos. D2326 and D2327 (Sold Separately)

Description	▶CHOOSE: Size	Item No.
PVC/Nylon		
Jacket with Detachable Hood	S, M, L, XL, 2XL, 3XL, 4XL	D2326
Bib Overalls		D2327
Coat with Detachable Hood		D2328



No. H7524



No. G5391



No. G5393



No. H7529



No. G5395



No. G5398

VIKING
"Brave The Elements"®

High-Visibility Rainwear

- ANSI/ISEA 107-2015
- Coats are Type R Class 3 Level 2
- Pants are Class E
- Waterproof

Ripstop fabric with a polyurethane backing for abrasion, puncture, rip, and snag resistance. Taped and heat-sealed seams and nylon lining. Windproof and resists cold.

Open Road®—Durable 150-denier material is lightweight and flexible. 2" Vi-brance® reflective tape. Coat has a protective collar storm flap, detachable hood and wrist cuffs (both adjustable). Bib overalls have a front fly and adjustable boot cuffs.

Professional Journeyman—300-denier trilobal fabric construction. Coat has a detachable hood, zip front, flap, and zippered pockets. Bib overalls have a removable bib for conversion to waist pants. Include waist snap, fly, boot access zippers, and elastic suspenders.

Professional Thor—Durable 300-denier trilobal fabric. Breathable coat has 4" contrasting 3M™ reflective striping. detachable hood, zip front, and flap. Includes outside pockets with waterproof zippers, mic clips, and armpit ventilation zippers.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Open Road®			
Coat	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow/Green	H7524
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Hi-Visibility LimeHi-Vis Lime	H7529
Professional Journeyman			
Coat	S, M, L, XL, 2XL, 3XL, 4XLS, M, L, XL, 2XL, 3XL, 4XL	Hi-Visibility Green, OrangeHi-Vis Green	G5391
Bib Overalls/Waist Pants	S, M, L, XL, 2XL, 3XL	Yellow/Green, Orange	G5395
Professional Thor			
Coat	S, M, L, XL, 2XL, 3XL, 4XLS, M, L, XL, 2XL, 3XL, 4XL	Yellow/Green, Orange	G5393
Waist Pants	S, M, L, XL, 2XL, 3XL	Yellow/Green, Orange	G5398



No. J4031



No. J4033

TINGLEY
A TRADITION SINCE 1896

Flame-Resistant Rainwear

- Meet ASTM D6413

Safetyflex®—Specialty PVC on polyester material is durable, mildew resistant, and provides a comfortable fit. Fabric is chemical resistant to many acids, alcohols, alkalies, oils, and salts, while the Therm-O-Rad sealed seams provide you 100% liquidproof protection. The jacket features full cut shoulders with 90° sleeve to body angle for supreme freedom of movement, an attached hood, and a storm fly front to seal out rain, wind, and contaminants. The tapered sleeves can fit in protective gloves and can accommodate glove rings for additional safety. Overalls have a plain front and feature a stitch bonded, non-woven lining that resists tears, punctures, and dissipates moisture. Suspenders have a snap lock buckle for easy adjustments. Snap closures are heavy-duty for long life.

Magnaprene™—Nylon fabric is coated with neoprene for abrasion and mildew resistance, and to protect against acids, chemicals, oils, and solvents. The stitched and taped seams offer 100% waterproof protection. Jacket features batwing sleeve construction for maximum freedom of movement and take-up snaps on the sleeves for an adjustable fit. Comfortable corduroy tip collar and a storm fly front that helps seal out rain, wind, and contaminants. Pants have take-up snaps on the ankle cuffs for an adjustable fit and heavy duty snaps for long life.

Rainwear Style	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Safetyflex®			
Flame Resistant Rain Jacket	S, M, L, XL, 2XL, 3XL, 4XL	Green	**E8676**
Flame Resistant Rain Bib Overall	S, M, L, XL, 2XL, 3XL, 4XL	Green	**E9131**
Magnaprene™			
Flame Resistant Rain Jacket	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Tan	**J4031**
Flame Resistant Rain Bib Overall	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow, Tan	**J4033**



No. J2256



No. J2258



No. J2262

TINGLEY
A TRADITION SINCE 1896

High-Visibility Arc-Flash and Flame-Resistant Rainwear

- 2" silver reflective tape
- Jackets and Coats are Type R Class 3
- Bib Overalls are Class E

Eclipse™ Quad-Hazard® rainwear features Thermo-Grid® technology to block out heat energy, while the flame resistant PVC coating on Nomex® provides 100% liquid proof protection. Ideal for use in all electric and gas utilities, power generation, pipeline and construction work, as well as in petrochemical applications. Resistant to many acids, oils, alcohols, salts, and alkalies.

Jackets and Coats—High-visibility, liquid-proof coats provide excellent arc flash protection and have an overhead shoulder design to let you do overhead work without limiting your range of motion. The zipper/storm fly front has a snap closure and hidden non-conductive, non-corrosive hardware to seal out heat, wind, rain, and contaminants, while hook and loop take-up straps on wrists help assure an adjustable fit. D-ring access lets you attach a fall protection harness. Also feature a flame-resistant corduroy collar with rollaway hood and a full-vented cape back for improved air circulation.

Jackets Nos. J2556 and J2557 also provide flash fire protection, and have an adjustable elastic drawcord.

Bib Overalls—Snap fly front overalls feature Quad-Hazard® high-visibility, liquid proof, arc flash, and flash fire protection. Suspenders have heavy-duty non-conductive quick-release buckles and crossovers, while the hook-and-loop take-up straps on ankle cuffs provide an adjustable fit and help seal out contaminants.

Description	▶CHOOSE: Size	Item No.
ATPV Rating 8.7 cal./cm² - HRC 2		
Jackets	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J2256**
Coats	S, M, L, XL, 2XL, 3XL, 4XL	**J2261**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J2258**
ATPV Rating 11 cal./cm² - HRC 2		
Jackets	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J2257**
Coats	S, M, L, XL, 2XL, 3XL	**J2262**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	**J2260**



No. D0649



No. D0652

NASCO

High-Visibility Arc- and Flame-Resistant Rainwear

- Meets ANSI/ISEA 107
- Jackets are Type R Class 3 Level 2
- Overalls are Class E

Features 3M™ 2" high-visibility reflective trim and welded seams.

ArcLite™—Provides protection in telecommunications and electric utility environments. Lightweight, flexible Nomex® with FR polyurethane/PVC barrier minimizes heat transfer burns and has limited chemical splash resistance.

- Meets ASTM F1891

Sentinel™—Durable, flexible 100% FR cotton knit with FR polyurethane barrier minimizes heat transfer burns and provides resistance to chemical splashes. Protects from oils, hydrocarbons, salts, and alcohols in electric and gas utility environments and refineries.

- Meets ASTM F1891 and F2733

Description	▶CHOOSE: Size	Item No.
ArcLite™ 7.0 cal./cm2 - HRC		
Jackets	S, M, L, XL, 2XL, 3XL, 4XL	**D0642**
Bib Overalls		**D0644**
Sentinel™ 16.0 cal./cm2 - HRC		
Jackets	S, M, L, XL, 2XL, 3XL, 4XL	**D0649**
Bib Overalls		**D0652**

H/H workwear

Impertech™ Sanitation Rainwear

- 0.16mm
- Meet ASTM F1671 Bloodborne Pathogen standard
- Navy color

Constructed of circular knit polyester backing with a stretch polyurethane coating. Microwelded seams help ensure that garments are waterproof. Stretches with wearer for extra comfort.



No. D7616



No. D7617

Jacket—Front zip has a snap storm flap and over-flap front closure with plastic snaps. Attached hood has elastic for protection. Raglan sleeves enable increased arm movement.

Bib Overalls—Have a high waist and adjustable elastic suspenders. Snap adjustment waist and elastic at ankles for protection.

▶CHOOSE: Size	Item No.
Jacket	
S, M, L, XL, 2XL, 3XL, 4XL	D7616
Bib Overalls	
S, M, L, XL, 2XL, 3XL, 4XL	D7617

VIKING "Brave The Elements"®

Bristol Bay Rainwear

- 0.75mm

PVC with cotton twill backing provides protection against chemicals, animal fats, and motor oils. Material is water- and windproof and resistant to the effects of seawater and sunlight. Durable double trimmed seams and generous sizing for working comfort. Machine washable.

Jacket has attached drawstring hood with large visor, neoprene storm cuffs, chrome-plated brass snaps, and double snap system on placket for extra wind and rain protection.

Pants feature an additional 0.35mm layer of PVC-coated oxford nylon for extra wear resistance. Also with adjustable waist panel and heavy-duty elastic suspenders.

No. G5389





No. G5394

▶CHOOSE: Size	Item No.
Jackets	
S, M, L, XL, 2XL, 3XL	G5389
Pants	
S, M, L, XL, 2XL, 3XL	G5394

VIKING "Brave The Elements"®

Open Road® Ripstop Rainwear

- 150 denier

Lightweight gear is waterproof and provides protection against rips, snags, tears, punctures, and abrasion. Seams are double stitched, taped, and heat sealed.

Jackets have a protective collar storm flap, helping to block out wind and water entry. Feature 2 front storage pockets and multiple front and back vents for breathability. Drawstrings on attached hood and wrist cuffs are adjustable.

Bib Pants feature quick-release clip suspenders and have a front fly with hook-and-loop closure along with adjustable boot cuffs.



No. H7523



No. H7528

▶CHOOSE: Size	Color	Item No.
Jacket		
S, M, L, XL, 2XL, 3XL	Yellow	H7523
S, M, L, XL, 2XL, 3XL	Green	H7525
Pants		
S, M, L, XL, 2XL, 3XL	Yellow	H7528
S, M, L, XL, 2XL, 3XL	Green	H7527



No. D2283



No. D2282



No. D2284



No. D2286

★ Condor

PVC Rainwear

- Yellow color
- Available in sizes S - 3XL

3-Pc. Disposable PVC Suit—Snap-front jacket, detachable hood with drawstring, elastic waist pants, and storage pouch included. Snap adjustable sleeves and pants.
- 0.10mm

3-Pc. PVC Suit—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.
- 0.25mm

PVC Raincoat—Features cape back ventilation, detachable hood, and 2 pockets.
- 0.25mm

3-Pc. PVC/Polyester Suits—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.
- 0.35mm

3-Pc. PVC/Nylon Suit—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.
- 0.35mm

Description	Item No.
3-pc. Disposable PVC Suit	D2281
3-pc. PVC Suit	D2283
PVC Raincoat	D2282
3-pc. PVC/Polyester Suit	D2284
3-pc. PVC/Polyester Suit	D2285
3-pc. PVC/Nylon Suit	D2286



Nos. D2295 and D2296 (Sold Separately)

Polyurethane/ Nylon Rainwear

Condor

- 0.25mm

Polyurethane exterior stands up to chlorinated water used in food processing plants and other sanitary applications. Welded seams.

Jackets—Have snap front closures and detachable hood.

Bib Overalls—Plain-front overalls include adjustable elastic suspenders. Reinforced knee patches provide added protection.

▶CHOOSE: Size	Rainwear Color	Item No.
Jackets with Detachable Hood		
S, M, L, XL, 2XL, 3XL, 4XL	Yellow	D2293
S, M, L, XL, 2XL, 3XL, 4XL	Green	D2295
Bib Overalls		
S, M, L, XL, 2XL, 3XL, 4XL	Yellow	D2294
S, M, L, XL, 2XL, 3XL, 4XL	Green	D2296



Nos. D8968 and D8971 (Sold Separately)

Polyurethane/ Nylon Rainwear

TINGLEY
A TRADITION SINCE 1896

- 0.25mm exterior coated polyurethane on Oxford nylon

Iron Eagle® rainwear provides exceptional snag and abrasion resistance. Protects against fats, oils, grease, and other chemicals. Heat-sealed seams can withstand extensive laundering.

Jackets—Feature storm fly front and are available with attached hood or hood snaps.

Bib Overalls—Plain front overalls have premium snap-lock suspender buckles.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Jacket with Attached Hood		
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, Yellow, Green	D8968
Jacket with Hood Snaps		
S, M, L, XL, 2XL, 3XL, 4XL	Yellow, Blue, Green	D8969
Bib Overalls		
S, M, L, XL, 2XL, 3XL, 4XL	Blue, Yellow, Green	D8971



Nos. D2313 and D2314 (Sold Separately)

No. D2315

SBR Rubber Rainwear

Condor

- 100% SBR rubber with cotton/polyester lining
- 0.46mm

Vulcanized, cemented seams for durability. SBR resists punctures, tearing, mild acids, ketones, and organic esters. Yellow color.

Jacket—Snap-front closure and attached hood.

Bib Overalls—Feature nickel-plated snap-fly front with elastic suspenders.

Raincoat and Rain Hood—Raincoat has corduroy-tipped collar and snap front. Raincoat length: 45". Snap-on rain hood is sold separately.

▶CHOOSE: Size	Item No.
Jacket with Attached Hood	
S, M, L, XL, 2XL, 3XL, 4XL	D2313
Bib Overalls	
S, M, L, XL, 2XL, 3XL, 4XL	D2314
Raincoat	
S, M, L, XL, 2XL, 3XL, 4XL	D2315
Rain Hood	
Universal	4ML31



No. 1EJY1



No. 3GRR8

Condor

Ponchos and Umbrellas

Disposable Ponchos with Hood—Heat-sealed seams prevent leaks. No. 2ELD5 is made of polyethylene and comes in an individual pouch. No. 1EJY3 includes side snaps.

- No. 2ELD5 is 0.02mm - 50" x 80"
- No. 1EJY3 is 0.10mm - 52" x 80"

PVC/Nylon Ponchos with Hood—Hood has visor and drawstring. Electronically welded seams and snaps prevent leaks. Storage bag included.

- 0.20mm - 50" x 80"

Umbrella—Heavy-duty umbrella with push-button automatic open and automatic close for 1-handed operation.

Color	Item No.	Pkg. Qty.
Disposable Ponchos with Hood, Universal Size		
Clear	2ELD5	24
Yellow	1EJY3	1
PVC/Nylon Ponchos with Hood, Universal Size		
Green	1EJY1	1
Yellow/Green	1EJY2	1
Umbrellas, 40" Open dia.		
Black	3GRR8	1



Condor

PVC-Free 2-Pc. Rainwear Suit

- 0.20mm

Nylon zippered jacket with attached hood, 2-flap pockets, underarm air vents, and adjustable wrist snaps. Pants have elastic waist and adjustable ankle snaps.

Size	Color	Item No.
M	Yellow	5JDX5
L	Yellow	5JDX6
XL	Yellow	5JDX7
2XL	Yellow	5JDX8
S	Green	5JDX9
M	Green	5JDY0
L	Green	5JDY1
XL	Green	5JDY2



Nos. G3213 and G3214 (Sold Separately)

PolyCo
innovative protective solutions

VR® Polyolefin Rainwear

- 0.8mm

Soft, lightweight material is cold-crack and tear- and chemical-resistant; impervious to fats and oils. 3" patches sealed into crotch and underarms for reinforcement. Jacket has extra-large snaps for convenience and storm flap for added protection. Overalls have adjustable elastic suspenders with large quick-release buckles.

Description	▶CHOOSE: Size	Item No.
Jacket	L, XL	G3213
Bib Overalls	L, XL	G3214

GA GRAINGER APPROVED | Condor | CELLUCAP MANUFACTURING | KEYSTONE FABRICS

Beard Nets, Bouffants, and Hairnets

Help prevent product contamination. Stretchable elastic provides a comfortable and secure fit.

BEARD NETS

Use to contain facial hair and are ideal for use in food handling applications.

BOUFFANTS

Can provide more protection than hairnets and help keep long hair out of face and eyes. Ideal for use in electronics manufacturing, laboratory, and cleanroom applications.

HAIRNETS

Provide reliable and economical protection in food handling applications. Can help keep long hair out of eyes and face.

Dia.	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Beard Cover				
Heavyweight Nylon				
18"	White	GA	**9RD56**	100
Nylon/Polyester				
19"	Blue, White	Cellucap	**H2299**	1000
Polyester				
18"	White	Condor	**1TTV5**	100
18"	White	Condor	**23KX05**	100
Polypropylene				
16"	Blue	Condor	**H8277**	1000
18"	White	Condor	**1TTV4**	100
18"	White	GA	**4YMR3**	100
18"	Blue	GA	**9LMJ9**	100
18"	White	Condor	**H8277**	1000
19"	White	Cellucap	**4GL65**	100
19"	Blue, White	Cellucap	**H2300**	1000
Bouffant				
Nylon/Polyester				
21"	White	Condor	**29JW33**	100
Polypropylene				
21"	Blue, Green, White	Cellucap	**E9210**	100
21"	White, Blue	Condor	**H8280**	1000
21"	White	Condor	**H8281**	200
21"	White, Green, Yellow	Condor	**H8281**	100
21"	Blue, White, Green, Red	Keystone	**H9099**	1000
21"	White	Cellucap	**22CU25**	1000
21"	White	Cellucap	**34FZ76**	100
21"	Blue	Cellucap	**34FZ78**	100
24"	White, Green, Blue, Yellow	Condor	**D2138**	100
24"	White	Cellucap	**H2306**	500
24"	Orange, Blue, Green, Red, Yellow	Cellucap	**H2306**	1000
24"	White, Blue, Green	Condor	**H8282**	1000
24"	White, Blue, Green, Yellow	Condor	**H8283**	100
24"	White, Blue	Condor	**H8287**	100
24"	White, Green, Red, Blue	Keystone	**H9100**	1000
24"	White	Cellucap	**22CU26**	1000
24"	White	Cellucap	**34FZ77**	100
24"	Blue	Cellucap	**34FZ79**	100
24"	Green	Cellucap	**34FZ81**	100
28"	White, Blue, Yellow	Condor	**D2139**	100
28"	White, Blue	Condor	**H8285**	1000
28"	White	Cellucap	**22CU27**	1000



No. 4GL65

Hairnet
No. 1TTU6



Dia.	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Hairnet				
Heavyweight Nylon				
18"	White	Cellucap	**4GL64**	144
21"	Black	GA	**9TYL6**	100
Lightweight Nylon				
18"	White	Condor	**1TTU6**	100
20"	White	Condor	**1TTU7**	100
22"	Black	GA	**8FAE2**	144
24"	White	Condor	**1TTU8**	100
26"	Black, White, Light Brown, Dark Brown	Cellucap	**F0588**	144
Nylon/Polyester				
18"	White	Condor	**H8268**	100
20"	White	Condor	**H8293**	100
21"	Blue, White	Condor	**H8270**	1000
21"	White, Black	Condor	**H8271**	100
22"	White	Condor	**H8272**	144
24"	Blue, White	Cellucap	**H2303**	1000
24"	Blue, White	Condor	**H8273**	1000
24"	Black	Condor	**H8274**	100
24"	White	Condor	**H8294**	100
Stockinet				
20"	Red	GA	**8TPL7**	100

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready





Polyethylene
No. 22CT86



Polyolefin
No. 12Z599



Polypropylene
No. 2KTU2



Polypropylene/
Polyethylene
No. 32GV59

Shoe Covers

▪ Ankle height Shoe covers can protect your footwear when working with chemical and biological liquids. Elastic top provides a secure fit.

Fits Shoe Size	Waterproof	Slip Resistant	Color	Brand	Item No.	Pkg. Qty.
Polyethylene						
12 to 15	Yes	No	Blue	Cellucap	**22CT86**	300
4 to 12	Yes	No	Blue	Alpha Protech	**29DZ75**	1000
12 to 15	Yes	No	Blue	GA	**33UA56**	300
6 to 11	Yes	No	White	GA	**33UA58**	300
Polyolefin						
8 to 10	Yes	Yes	Blue	PolyCo	**12Z599**	200
14 to 16	Yes	Yes	Blue	PolyCo	**12Z601**	200
Polypropylene						
4 to 17	No	No	White	Condor	**2KTU2**	200
4 to 17	No	Yes	White	Condor	**2RUZ2**	50
4 to 17	No	Yes	White	Condor	**2KTU3**	200
12 to 13	No	Yes	Blue	Action Chemical	**13V939**	300
4 to 12	No	Yes	Blue	Alpha Protech	**29DZ61**	300
4 to 11	Yes	Yes	White	Alpha Protech	**29DZ70**	200
4 to 11	Yes	Yes	White	Alpha Protech	**29DZ72**	200
6 to 11	Yes	Yes	White	GA	**33UA59**	300
6 to 11	Yes	Yes	—	GA	**33X118**	1
12 to 15	No	Yes	White	Cellucap	**40N282**	300
12 to 15	No	Yes	Blue	GA	**9YR59**	100
12 to 15	No	Yes	Blue	GA	**9YR60**	300
12 to 15	No	Yes	Blue	GA	**33UA54**	300
4 to 17	No	Yes	Blue	Condor	**30ZD80**	300
Polypropylene/Polyethylene						
4 to 12	Yes	Yes	Blue	Alpha Protech	**29DZ63**	150
4 to 12	Yes	Yes	Blue	Alpha Protech	**29DZ64**	150
4 to 12	Yes	Yes	White	Alpha Protech	**29DZ77**	150
4 to 12	Yes	Yes	White	Alpha Protech	**29DZ78**	150
4 to 12	No	Yes	Blue	Alpha Protech	**29DZ81**	300
12 to 15	Yes	Yes	White	Cellucap	**34G186**	300
12 to 14	No	Yes	White	Condor	**32GV59**	200
13 to 16	No	Yes	White	Condor	**32GV60**	200



Microporous
Film Laminate
No. 30C606



Polyolefin
No. 12Z602



Polypropylene
No. 2RUZ3



Polypropylene/
Polyethylene
No. 29DZ57



PVC/Vinyl
No. 13G201

Boot Covers

▪ Calf height Boot covers help protect your footwear in areas with biological and chemical liquids. Elastic top provides a secure fit and the tall height accommodates most boots.

Size	Waterproof	Slip Resistant	Color	Brand	Item No.	Pkg. Qty.
Microporous Film Laminate						
XL	No	No	White	Condor	**30C606**	100
Polyolefin						
M	No	No	Yellow	PolyCo	**12Z602**	100
L	No	No	Yellow	PolyCo	**12Z603**	100
Polypropylene						
Universal	No	Yes	White	Condor	**2RUZ3**	50
Universal	No	Yes	White	Condor	**2KTU4**	200
Polypropylene/Polyethylene						
2XL	Yes	Yes	Black	Alpha Protech	**29DZ57**	200
PVC/Vinyl						
L	Yes	Yes	Yellow	Onguard	**13G201**	1
XL	Yes	Yes	Yellow	Onguard	**13G202**	1
2XL	Yes	Yes	Yellow	Onguard	**13G203**	1

No. 3ZM58





No. 4GMT5

(Shoe Covers Sold Separately)

Dispensers

Hinged lid provides you easy 1-handed access to bouffant caps, hairnets, shoe/boot covers, and other personal protective equipment. Dispensers are clear so you can easily view contents and know when it's time to refill. For use on desktop or mount on wall.

Description	H	W	D	Brand	Item No.
Universal Dispensers					
PETG	7"	4¾"	4½"	GA	**3UZG1**
PETG	7"	4¾"	4½"	GA	**4GMT2**
PETG	10½"	8"	3½"	GA	**4GMT3**
PETG	12⅜"	12"	5½"	GA	**4GMT4**
PETG	12⅜"	11⅞"	5½"	GA	**3UZG2**
Acrylic w/Foam Bottom	9½"	11½"	9½'	Brady	**3ZM58**
Acrylic	9½"	11¼"	9½"	Condor	**30ZE62**
Universal Dispensers with 4 Labels (Beard Covers, Bouffants, Hairnets, and Shoe Covers)					
PETG	10"	10"	10"	GA	**3UZG3**
PETG	12"	12"	12"	GA	**3UZG4**
PETG w/2 Compartments	14"	15¾"	9¼"	GA	**3UZG6**
PETG w/3 Compartments	14"	15¾"	9¼"	GA	**3UZG7**
PETG w/2 Compartments	18"	19⅜"	11⅝"	GA	**3UZG5**
Dispensers with "Shoe Covers" Imprint					
Acrylic	14"	12"	8"	Brady	**4XR13**
PETG	14"	12"	8"	GA	**4GMT5**
Acrylic	15½"	12"	8"	Condor	**30ZE63**
Hairnet Dispenser					
Acrylic	10½"	8"	3½"	GA	**3UZF9**

Chemical Resistant Bib-Style Aprons

PolyCo Ansell Condor

Economy Chemical-Resistant—VR® polyolefin aprons resist industrial concentrations of hydrofluoric, hydrochloric, sulfuric, and nitric acids and are FDA Approved for indirect food contact. Vinyl aprons resist oils, fats, and chemicals. Urethane aprons offer lightweight comfort and long wear. PVC and PVC blends aprons provide superior flexibility and resist grease, fats, oils, punctures, and abrasion. Nitrile aprons are resistant to oil, fuel, and hydrocarbons.

Premium Chemical-Resistant—SBR rubber aprons are abrasion resistant and protect against mild solvents, chemicals, and acids. Neoprene and Hycar aprons protect against a wide range chemicals, acids, oils, grease, and animal fats while maintaining flexibility over a wide temperature range.

Key	Description	Color	L	W	Brand	Mfr. Model	Item No.	Pkg. Qty.
Economy Chemical-Resistant Aprons								
VR® Polyolefin								
A	4 mil. Die-Cut with Cutout Neck and Waist Ties	Blue	45"	35"	PolyCo	46400	**12Y507**	100
		Blue	55"	35"	PolyCo	46500	**12Y508**	100
	6 mil. Die-Cut with Cutout Neck and Waist Ties	Blue	45"	35"	PolyCo	46401	**12Y509**	100
		Blue	55"	35"	PolyCo	46501	**12Y510**	100
Vinyl								
B	6 mil. Die-Cut with Cutout Neck and Waist	Blue	44"	33"	Ansell	56-015	**5EMD1**	1
	6 mil. Raw Edge with Neck and Waist Ties	Blue	44"	33"	Ansell	56-009	**4JY17**	1
	8 mil. Sewn Edge with Neck and Waist Ties	Blue	44"	33"	Ansell	56-001	**5EMC4**	1
		Blue	54"	33"	Ansell	56-001	**5EMC5**	1
	6 mil. Sewn Edge with Neck and Waist Ties	Blue	44"	33"	Ansell	56-007	**3RYT3**	1
		Blue	47"	33"	Ansell	56-007	**5EMC6**	1
		Blue	49"	33"	Ansell	56-007	**3RYT4**	1
		Blue	54"	33"	Ansell	56-007	**3RYT5**	1
C	8 mil. Raw Edge with Neck and Waist Ties and Heat Sealed PVC Grommets	Blue	45"	35"	Condor	—	**1N866**	12
	6 mil. Raw Edge with Neck and Waist Ties	Blue	47"	33"	Ansell	56-009	**5EMC7**	1
		Blue	49"	33"	Ansell	56-009	**5EMC8**	1
		Blue	54"	33"	Ansell	56-009	**5EMC9**	1
	6 mil. Die-Cut with Cutout Neck and Waist	Blue	39"	33"	Ansell	56-015	**5EMD0**	1
Urethane/Nylon Lining								
D	7 mil. Serged Edge with Neck and Waist Ties, and Brass Grommets	Yellow	48"	35"	Ansell	56-600	**5EMD3**	1
PVC/Polyester Lining								
E	18 mil. Raw Edge with Attached Neck Strap, Waist Ties, and Brass Grommets	Green	45"	35"	Condor	—	**3XE79**	1
PVC/Nylon Lining								
F	12 mil. Raw Edge with Attached Neck Strap, Waist Ties, and Heat Sealed PVC Grommets	Yellow	45"	35"	Condor	—	**1N872**	1
PVC								
G	18 mil. Raw Edge with Attached Neck Strap, Waist Ties, and PVC Grommets	Green	50"	35"	Condor	—	**3BU46**	1
H	18 mil. Serged Edge with Attached Neck Strap, Waist ties, and Plastic Grommets	White	44"	33"	Ansell	56-101	**3RYU8**	1
Urethane/Nylon Lining								
H	7 mil. Serged Edge with Neck and Waist Ties, and Brass Grommets	Blue	48"	35"	Ansell	56-601	**5EMD5**	1
Nitrile/Polyester Lining								
I	16 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45"	35"	Condor	—	**4T296**	1
Premium Chemical-Resistant Aprons								
SBR Rubber/Polyester								
K	16 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45"	35"	Condor	—	**4T299**	1
	29 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45"	35"	Condor	—	**4T295**	1
Neoprene								
L	12.5-oz. Sewn Edge with Attached Neck Strap, Waist Ties, and Metal Grommets	Yellow	45"	35"	Ansell	56-400	**3RYU7**	1
Hycar/Waterproof Lining								
M	18-oz. Sewn Edge with Attached Neck Strap, Waist Ties, and Metal Grommets	Yellow	45"	33"	Ansell	56-510	**3RYT7**	1
		Black	45"	33"	Ansell	56-512	**3RYT6**	1



A.
No. 12Y507



B.
No. 4JY17



E.



F.



K.
No. 4T295

Ansell Endurosaf® Aprons

Flexible, lightweight, durable material is abrasion- and puncture-resistant. Resists fats, oils, grease, and chemicals. Include adjustable, sealed neckstrap. Sealed side-ties can be secured in either front or back. Comply with FDA for food contact.



Color	L	W	Mfr. Model	Item No.
Blue	45"	35"	56-802	**3RYU2**
	50"	35"	56-802	**5EMD9**
Yellow	50"	35"	56-801	**5EMD8**

Honeywell NORTH

Silver Shield® Aprons and Sleeves

Resistant to over 280 different chemicals, including alcohols, aliphatics, chlorines, ketones, and esters. Aprons feature metal grommets, neck and waist ties, and heat-sealed edges. Sleeves have elastic top and bottom.



No. 5T474

Description	L	W	Mfr. Model	Item No.
Coat Apron	43"	38"	SSCA	**3RYV9**
	50"	48"	SSCA	**3RYV8**
	56"	54"	SSCA	**3RWD3**
	60"	38"	SSCA	**3RYW1**
Apron	45"	35"	SSA	**5T474**
Sleeves, Pair	20"	—	SSS	**5T476**

NATIONAL SAFETY APPAREL®

Cryogenic Aprons

- Meet EN 511 standard

Lightweight breathable protection for ultracold environments and cryogenic atmospheres. Bib-style aprons are waterproof for full frontal splash protection. Adjustable neck and waist straps have quick disconnects for easy on/off. Find Cryogenic Gloves on page 1687.



L	W	Mfr. Model	Item No.
36"	24"	A02CRC24X36	**2AFB2**
42"	24"	A02CRC24X42	**2AFA2**
48"	24"	A02CRC24X48	**2AFB1**



No. 1N856



No. 11G029

Chemical-Resistant Aprons and Gowns

COAT AND SMOCK APRONS

Vinyl Coat Aprons—Condor® aprons feature heat-sealed seams, bound collar, elastic wrists, and nylon ties with breakaway snaps at back of neck and waist.

Ansell aprons are static and corrosion resistant, with no exposed elastic or metal parts. 6-mil models feature plain edge, closed back, and elastic cuff. 8-mil models feature heat-sealed seams.

Neoprene Smock Aprons—Sewn-edge aprons have cotton ties for adjustable back closure, silver-plated grommets, and elastic wrists.

DISPOSABLE BARRIER GOWNS

VR® Polyolefin—Provide full frontal body protection from chemical splashes. Full-length sleeves with either an integral thumb loop or elastic cuff. Heat-sealed seams.

Description	Thickness	L	W	Color	Mfr. Model	Item No.	Pkg. Qty.
Vinyl Coat Aprons							
Condor							
Disposable Sleeve Apron	8 mil	55"	54"	Blue	—	**1N860**	1
		58"	55"		—	**1N856**	1
Ansell							
Chemical-Splash Resistant Apron	6 mil	48"	48"	Blue	56-903	**1XKK9**	1
		53"	52"		56-903	**1XKL1**	1
		54"	56"		56-903	**1XKL2**	1
		54"	60"		56-903	**1XKL3**	1
	8 mil	48"	48"		56-910	**3RYV6**	1
		53"	52"		56-910	**3RYV5**	1
		54"	55"		56-910	**3RYV4**	1
		54"	60"		56-910	**3RYV7**	1
Neoprene Smock Aprons							
Condor							
Chemical Resistant Sleeve Apron	11 mil	46½"	48"	Yellow	—	**11G029**	1
		46½"	50"		—	**11G030**	1
		46½"	52"		—	**11G031**	1
		46½"	54"		—	**11J844**	1
VR® Polyolefin							
PolyCo							
Gown with Thumb Loops	4 mil	45"	38"	Blue	42400	**12Y494**	50
		50"	42"		42500	**12Y495**	50
		55"	45"		42600	**12Y496**	50
Gown with Elastic Cuffs		55"	38"		42480	**12Y497**	50
		55"	42"		42580	**12Y498**	50
		60"	45"		42680	**12Y499**	50
VR® Protective Wear							
Gown with Elastic Cuffs	4 mil	45"	27"	Blue	42450	**49NT88**	50
		50"	28"		42550	**49NT89**	50
		50"	30"		42650	**49NT90**	50
Gown with Trough Bottom		50"	30"		43650	**49NT91**	50
		45"	27"		43450	**49NT92**	50
		50"	28"		43550	**49NT93**	50



No. 1N874

Denim and Cotton Twill Aprons

Karewear™ brand aprons feature breakaway straps. Condor® brand aprons have sewn-in straps. Ansell brand aprons have 30"L grommeted ties at neck and waist.

Description	L	W	Color	Brand	Mfr. Model	Item No.
Aprons						
10-oz. Denim with Breakaway Straps, Bib, and Side Pockets	36"	24"	Blue	Karewear	500D	**3RYP8**
12-oz. Denim with Sewn-In Straps, No Pockets	36"	27"	Navy Blue	Condor	—	**1N880**
12-oz. Denim with Sewn-In Straps, 3 Pockets	36"	28"	Blue	Condor	—	**1N874**
14-oz. Denim with Sewn-In Straps, Metal Grommets, and Bib Pocket	36"	28"	Blue	Ansell	57-003	**3RYT8**



No. 8CV18



No. 3RKU4



No. 12Z609

Disposable Aprons and Barrier Gowns

DISPOSABLE PROTECTIVE APRONS

Light-duty aprons are USDA accepted and ideal for food processing applications.

POLY-COATED POLYPROPYLENE GOWNS

Tie at neck and waist. Elastic wrist style offers barrier protection from fluids.

POLYETHYLENE TIE GOWNS

1-pc. pullover style has vented neck, open back, and die-cut tiebacks. Full-length sleeves with a thumb loop extension. Sealed shoulder seams.

POLYPROPYLENE PROTECTIVE CLOTHING

Economical alternative for disposable clothing in less demanding environments. Lightweight items offer a reliable barrier against dust and splash. Medium-Weight items offer protection from dirty, nonhazardous conditions.

Description	Color	L	W	Item No.	Pkg. Qty.
Condor Disposable Protective Aprons					
1 mil. Sealed Edge with Cutout Neck and Waist Ties	White	46"	28"	**8CV18**	100
1 mil. Raw Edge with Cutout Neck and Waist Ties	White	42"	24"	**5T316**	100
1. 25 mil. Raw Edge with Cutout Neck and Waist Ties	White	46"	28"	**5T315**	100
1. 75 mil. Sealed Edge with Cutout Neck and Waist Ties	White	46"	28"	**9F378**	100
Ansell Disposable Protective Aprons					
1.5 mil. Neck and Waist Ties	White	46"	27"	**3RYP2**	100
	White	55"	27"	**3RYP3**	100
	Blue	46"	27"	**3RYP4**	100
	Blue	55"	27"	**3RYP5**	100
Cellucap Poly-Coated Polypropylene Gowns					
Elastic Wrists with Neck and Waist Ties	White	44"	54"	**3RKU4**	1
	White	52"	59½"	**3RKU5**	1
Knit Wrists with Neck and Waist Ties	White	44"	54"	**3RKU6**	1
	White	52"	59½"	**3RKU7**	1
PolyCo Polyethylene Tie Gowns					
Gown with Thumb Loops, Dispenser Boxed and Individually Bagged	Blue	48"	40"	**12Z609**	15
	White	48"	40"	**12Z610**	15
Gown with Thumb Loops, Bulk Packed and Individually Bagged	Blue	48"	40"	**12Z611**	100
	White	48"	40"	**12Z612**	100

Description	Fabric Weight	Seam Style	Size	Color	Item No.	Pkg. Qty.
Waist Ties and Thumb Loops, Lightweight, Blue						
Waist Ties and Thumb Loops	Condor Polypropylene Barrier Gown	Heat Sealed	Universal	Blue	**32KF55**	15
Bib-Style Apron Bound Neck, Waist Ties Lightweight, White						
Bound Neck, Waist Ties	Condor Polypropylene Bib-Style Apron	Serged	27¾"W x 35½"L	White	**2KTT8**	100

Description	Size	Item No.	Pkg. Qty.
Condor Polypropylene Bib-Style Apron			
Bib-Style Apron Bound Neck, Waist Ties Lightweight, White	27¾" x 35½"	**2KTT8**	100
Condor Polypropylene Barrier Gown			
Waist Ties and Thumb Loops, Lightweight, Blue	Universal	**32KF55**	15

Excel FR® Flame-Resistant Lab Coats

- PPE CAT 1
- Arc rating ATPV 7.7 cal./cm²

Comfortable interlock cotton material has flame resistance that lasts garment's life. 5-button cotton lab coat with notched 2-pc. unlined lapel collar and multiple pockets. 1 hex-shaped breast pocket with pencil stall and 2 lower hex-shaped patch pockets. Side vent openings for reaching under lab coat. Hemmed sleeve ends.



▶CHOOSE: Size	Mfr. Model	Item No.
S, M, L, XL, 2XL	KEL2	D1306

★ GA GRAINGER APPROVED

Lab Coat

Unisex/Mens Staff Length Labcoat

Performance poplin-blend coat features a 5-button front with left chest pocket and 2 lower pockets. Side vent openings provide easy movement.



▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.	Pkg. Qty.
Lab Coat				
S, M, L, XL, 2XL, 3XL, 4XL	White	MDT12W	D2349	1

★ Condor CELLUCAP MANUFACTURING DuPont™ Tyvek®

Disposable Lab Coats

Economical solution for disposable clothing and for use in less demanding environments. Breathable fabric offers protection against dry particles and nonhazardous water-based aerosols. Coats with knit or elastic cuffs help keep cuffs from snagging objects and can provide more protection from airborne particles. Serged seams. All coats have a collar (except Basic SMS coats) for a more comfortable fit.

Closure Type	Cuff Styles	No. of Pockets	▶CHOOSE: Size	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Basic SMS							
Snaps	Knit	3	M, L, XL, 2XL, 3XL, 4XL	White	Condor	H8190	1
				Blue		H8191	
Polypropylene							
Buttons	Elastic	2	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Condor	H8179	30
		3	S, M, L, XL, 2XL			H8183	
		2	S, M, L, XL, 2XL, 3XL	Blue		H8180	
		0	L, XL, 2XL, 3XL, 4XL	Red		H8182	
Hook and Loop			M, L, XL, 2XL, 3XL	White	Cellucap	H2308	50
Snaps	Open Wrist	2	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White, Blue	Condor	G6098	25
				White		D2182	
Spunbond Polypropylene							
4 Snaps	Elastic	0	L, XL, 2XL, 3XL	White	Condor	D5799	50
Tyvek® 400							
Snaps	Elastic	0	S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	White	Dupont	J6437	30

Basic SMS—The Spun-Bonded Melt-Blown Synthetic (SMS) fabric is a polypropylene material constructed of 3 durable layers that resists abrasion and wear.

Polypropylene—Durable polypropylen material resists wear and abrasion. No. H2308 has a hook-and-loop closure for easy donning/doffing.

Spunbond Polypropylene—Lightweight, spunbond polypropylene material is comfortable to wear.

Tyvek® 400—Fabric features no films or laminates to abrade or wear away. Protection is built into the fabric itself, and it provides better protection than microporous film fabrics even after wear and abrasion.



Lab Coat
No. D2182

★ Condor

Polypropylene Protective Clothing

Economical alternative for disposable clothing in less demanding environments. Lightweight items offer a reliable barrier against dust and splash. Medium-Weight items offer protection from dirty, nonhazardous conditions.

Description	Fabric Weight	Seam Style	▶CHOOSE: Size	▶CHOOSE: Color	Level of Protection	Item No.	Pkg. Qty.
Coveralls							
Zipper Front, Open Wrists and Ankles	Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Dry Particulate	D2175	25
	Medium Weight	Serged	M, L, XL, 2XL, 3XL, S, 4XL, 5XL	White, Blue	Dry Particulate	G6091	25
Zipper Front, Elastic Wrists and Ankles	Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Dry Particulate	D2176	25
	Medium Weight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White, Blue	Dry Particulate	G6092	25
Hooded Coveralls							
Zipper Front, Elastic Face, Wrists and Ankles	Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL	White	Dry Particulate	D2177	25
Zipper Front, Elastic Face, Wrists and Boot Covers	Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Dry Particulate	D2178	25
Shirts							
Long-Sleeve, Snap Front, Open Wrists	Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White		D2179	25
Pants							
Elastic Waistband, Open Ankles	Lightweight	Serged	S/M, L/XL, 2XL/3XL, 4XL/5XL	White		D2181	25



Coveralls
No. D2175



No. D2179
(Pants not Included)


No. J4503


No. J4523


No. J4506


No. J4509


No. J4512

Microchem® by AlphaTec® Protective Coveralls

Ansell

Each style has elastic ankles and cuffs.

68-1500

Breathable design help reduce the risk of heat stress and is proven to filter 100% of particles less than 3 microns. Ideal for applications involving stripping, clear up or handling of asbestos, general maintenance, construction and contract cleaning. Serged seams combine strength with a particle barrier.

68-1500 PLUS FR

Flame retardant and anti-static SMMS nonwoven fabric provides a good barrier to particulates and low hazard liquid sprays or splashes. Comfortable design allows full freedom of movement when worn over heat and flame protective clothing. Strong serged seams provide a particle barrier.

68-1800

Protects from low hazard liquid spray, splashes, and particles protection. Bound seams provide superior strength and a liquid and particle barrier. Low linting to help reduce the risk of fiber contamination in some critical areas.

68-2000

Helps provide both protection and comfort with exceptional liquid and particulate protection. Bound seams offer excellent strength and a liquid and particle barrier. Meet ASTM F1761 and EN 14126:2003 resistance to penetration of blood, body fluids and blood-borne pathogens.

68-2000 COMFORT

Specifically designed for those working in warmer climates or working environments to help reduce the possibility of heat stress. Bound seams offer superior strength, and a liquid, and particle barrier.

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
68-1500					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH15-S-	**J4503**	25
Hooded			WH15-S-	**J4504**	25
Hooded, Attached Boots			WH15-S-	**J4505**	25
68-1500 Plus FR					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Navy	68-1500	**J4523**	25
Hooded			NR17-S-	**J4524**	25
68-1800					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH18-B-	**J4506**	25
Hooded	M, L, XL, 2XL, 3XL, 4XL, 5XL		WH18-B-	**J4508**	25
Hooded, Attached Skid-Resistant Boots	S, M, L, XL, 2XL, 3XL, 4XL, 5XL		WH18-B-	**J4507**	25
68-2000					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH20-B-	**J4509**	25
Hooded			WH20-B-	**J4511**	25
Hooded, Attached Skid-Resistant Boots			WH20-B-	**J4510**	25
68-2000 Comfort					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH20-B-	**J4513**	25
Hooded			68-2000	**J4512**	25


Collared Coveralls
No. H3322

Basic Protective Clothing

PROSHIELD® 10

Disposable garments are made from SMS polypropylene fabric and provide protection from dry particulates in general maintenance, janitorial/sanitation, and other dirty work. Sewn seams.

PROSHIELD® 60

Proprietary microporous technology provides an effective barrier against non-hazardous particles, light liquid splash and aerosols. Ideal for applications including automotive refinishing, waste cleanup and remediation.

▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.	Pkg. Qty.
ProShield® 10				
Collared Coveralls - Zippered Front, Open Wrists and Ankles				
M, L, XL	Blue, White	PB120S	**H3322**	25
2XL	Blue, White	PB120S	**H3323**	25
3XL	Blue, White	PB120S	**H3324**	25
4XL	Blue, White	PB120S	**H3325**	25
5XL	Blue, White	PB120S	**H3326**	25
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles				
M, L, XL	Blue, White	PB125S	**H3332**	25
2XL	Blue, White	PB125S	**H3333**	25
3XL	Blue, White	PB125S	**H3334**	25
4XL	Blue, White	PB125S	**H3335**	25
5XL	Blue, White	PB125S	**H3336**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Ankles				
M, L, XL	Blue, White	PB127S	**H3337**	25
2XL	Blue, White	PB127S	**H3338**	25
3XL	Blue, White	PB127S	**H3339**	25
4XL	Blue, White	PB127S	**H3340**	25
5XL	Blue, White	PB127S	**H3341**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Attached Skid-Resistant Boot Covers				
M, L, XL	Blue, White	PB122S	**H3327**	25
2XL	Blue, White	PB122S	**H3328**	25
3XL	Blue, White	PB122S	**H3329**	25
4XL	Blue, White	PB122S	**H3330**	25
5XL	Blue, White	PB122S	**H3331**	25
ProShield® 60				
Collared Coveralls - Zippered Front, Open Wrists and Ankles				
M, L, XL, 2XL	White	NG120S	**D2207**	25
3XL, 4XL	White	NG120S	**D2208**	25
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles				
M, L, XL, 2XL	White	NG125S	**D2212**	25
3XL, 4XL	White	NG125S	**D2213**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	White	NG127S	**D2243**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Attached Skid-Resistant Boot Covers				
M, L, XL, 2XL	White	NG122S	**D2244**	25
3XL, 4XL	White	NG122S	**D2245**	25

Disposable Protective Clothing

TYVEK® 400

Fabric is comfortable and lightweight while providing puncture- and tear-resistant protection in wet or dry applications without restricting movement when stretching and bending. Offers inherent barrier to particles down to 1 micron even after abrasion. Coveralls meet OSHA requirements for asbestos and lead abatement.

TYVEK® 400D

Fabric offers the high protection of Tyvek on the front of the garment, while the back is made from highly breathable DuPont™ ProShield® fabric to increase breathability and help reduce heat stress. Thumb loops on sleeve ends and elastic waists help keep garments in place when donning gloves and performing strenuous activities. Excellent for use in demanding applications that have limited frontal exposure to hazardous particles and liquid splash. Both fabrics are low-linting with antistatic properties. White front and blue back.

Coveralls—Zipper-front coveralls with comfort fit design for greater range of movement.

Collared Shirts—Long-sleeve shirt with 4 plastic snaps and serged seams.

Pants—Feature elastic waistband and serged seams.

Collared Lab Coats—Feature 5-snap front with a storm flap, serged seams, and set-in sleeves that allow greater freedom of movement.

Pullover Hood—Elastic opening hood features serged seams and is shoulder-length to offer greater coverage.

Bib-Style Apron—Provides full front coverage and features bound neck with long ties and bound seams.

Sleeves—Feature serged seams.

Shoe/Boot Covers—Feature serged seams. Skid-resistant Nos. 6LY43 and 4LUR4 prevent slipping.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Tyvek®			
Collared Coveralls - Open Wrists and Ankles			
M, L, XL	TY120S	**D2193**	6
2XL, 3XL	TY120S	**D2229**	6
2XL, 3XL, 4XL	TY120S	**D2231**	25
Collared Coveralls - Elastic Wrists and Ankles			
M, L, XL	TY125S	**D2195**	6
2XL, 3XL	TY125S	**D2232**	6
2XL, 3XL, 4XL	TY125S	**D2233**	25
Hooded Coveralls - Elastic Wrists and Ankles			
M, L, XL	TY127S	**D2197**	6
2XL, 3XL	TY127S	**D2234**	6
5XL, 2XL, 3XL, 4XL	TY127S	**D2235**	25
Hooded Coveralls - Elastic Wrists and Ankles and Skid-Resistant Boot Covers			
L, XL, M	TY122S	**D2199**	6
2XL, 3XL	TY122S	**D2236**	6
3XL, 2XL, 4XL	TY122S	**D2237**	25
Collared Shirts - Snap Front, Open Wrists			
L, XL	TY303S	**D2202**	12
2XL, 3XL	TY303S	**D2238**	12
Pants - Elastic Waistband, Open Ankles			
S/M, L/XL	TY350S	**D2203**	12
2XL/3XL	TY350S	**5HH47**	12
Collared Lab Coats - Snap Front, Open Wrists			
M, L, XL, 2XL, 3XL, 4XL	TY210S	**D2239**	30
Collared Lab Coats - Snap Front, Open Wrists, 2-Pockets			
M, L, XL	TY212S	**D2204**	8
2XL, 3XL	TY212S	**D2241**	8
Pullover Hood			
Universal	TY657S	**4T063**	100
Bib-Style Apron			
28"W x 36"L	TY273B	**4T061**	100
Sleeves - Elastic Top and Wrist			
—	TY500S	**4T062**	200
Shoe Covers, 5" High, Elastic Top			
Universal, White	TY450S	**5WYC9**	200
Boot Covers, 18" High, Elastic Top			
L, White	TY454S	**5WYD0**	100
XL, White	TY454S	**5WYD1**	100
Shoe Covers, Skid-Resistant, 5" High, Elastic Top			
Universal, Gray	FC440	**6LY43**	200
Boot Covers, Skid-Resistant, 18" High, Elastic Top			
Universal, Gray	FC454S	**4LUR4**	100
Tyvek® 400D			
Collared Coveralls - Elastic Wrists and Ankles			
L, M, XL	TD125S	**G7263**	25
2XL	TD125S	**30F341**	25
3XL	TD125S	**30F342**	25
4XL	TD125S	**30F343**	25
Hooded Coveralls - Elastic Wrists and Ankles			
M, L, XL, 2XL, 3XL, 4XL	TD127S	**G7262**	25



Collared Coveralls - Open Wrists and Ankles No. D2193



Tyvek® Hooded Coverall No. D2199



Tyvek® 400 Bib-Style Apron and Sleeves Nos. 4T061 and 4T062



Tyvek® Collared Coverall No. 30F341



Coveralls No. D1428



Frock No. D1434

Tyvek® IsoClean® Controlled Environment Clothing

- ISO Class 5 to 8
- White color

Protective material creates an effective barrier against dry particulates, nonhazardous liquids, and microorganisms.

Available options include clean processed and sterilized, clean processed, and sterile. Individually packaged. Ideal for critical environments. A bulk packaged option is also available. Bound-seam garments provider a higher protection level than serge-seam garments.

▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.	Pkg. Qty.
Tyvek® IsoClean® - Clean Processed, Sterilized, and Individually Packaged				
Coveralls with Front Zipper Closure, Raglan Sleeves, Covered Elastic Wrists and Ankles, Bound Seams				
M	White	IC182BCS	**D1428**	25
L	White	IC182BCS	**D1428**	25
XL	White	IC182BCS	**D1428**	25
S	White	IC182BCS	**D1428**	25
2XL	White	IC182BCS	**1MKV1**	25
3XL	White	IC182BCS	**5WYH7**	25
4XL	White	IC182BCS	**5WYH9**	25
Frock with Mandarin Collar, 6-Snap Front, Covered Elastic Wrists, Bound Seams				
S, M, L, XL	White	IC270BCS	**D1434**	30
2XL	White	IC270BCS	**1MKV6**	30
3XL	White	IC270BCS	**5WYK2**	30
4XL	White	IC270BCS	**5WYK4**	30
Bouffant, Serged Seams				
Universal	White	IC729SCS	**5WYN1**	250
Full-Face Hood with Side Ties, Back Snap, Bound Seams				
Universal	White	IC668BCS	**1MKV8**	100
18"L Sleeve Protector with Covered Elastic Wrists, Bound Seams				
Universal	White	IC501BCS	**5WYL7**	100
18"H Boot Covers with Covered Elastic Leg Opening, Ties at Ankle, Gripper™ PVC Sole, Bound Seams				
M, L, XL	White	IC458BCS	**D7998**	100
18"H Boot Covers with Elastic Leg and Ankles, Gripper™ PVC Sole, Serged Seams				
M	White	IC447SCS	**30J231**	100
L	White	IC447SCS	**30J232**	100
XL	White	IC447SCS	**30J233**	100
2XL	White	IC447SCS	**30J234**	100
Tyvek® IsoClean® - Clean Processed and Individually Packaged				
Coveralls with Front Zipper Closure, Raglan Sleeves, Covered Elastic Wrists and Ankles, Bound Seams				
L	White	IC182BOC	**D7995**	25
M	White	IC182BOC	**D7995**	25
S	White	IC182BOC	**D7995**	25
XL	White	IC182BOC	**D7995**	25
2XL	White	IC182BOC	**5WYH5**	25
3XL	White	IC182BOC	**5WYH6**	25
4XL	White	IC182BOC	**5WYH8**	25
Frock with Mandarin Collar, 6-Snap Front, Covered Elastic Wrists, Bound Seams				
S, M, L, XL	White	IC270BOC	**D7996**	30
2XL	White	IC270BOC	**5WYK0**	30
3XL	White	IC270BOC	**5WYK1**	30
4XL	White	IC270BOC	**5WYK3**	30
Bouffant Headband, Serged Seams				
Universal	White	IC729SOC	**5WYN0**	250
Hood with Full Face Opening, Ties at Sides, Bound Seams				
Universal	White	IC668BOC	**5WYL8**	100
18"H Boot Covers with Elastic Leg and Ankles, Gripper™ PVC Sole, Serged Seams				
M	White	IC447SOC	**30J228**	100
L	White	IC447SOC	**30J229**	100
XL	White	IC447SOC	**30J230**	100
18"H Boot Covers with Covered Elastic Leg Opening, Ties at Ankle, Gripper™ PVC Sole, Bound Seams				
M, L, XL	White	IC458BOC	**D7997**	100
Tyvek® IsoClean® - Bulk Packaged - Serged Seams				
Coveralls with Front Zipper Closure, Elastic Wrists and Ankles				
M	White	IC181SOO	**D1426**	25
L	White	IC181SOO	**D1426**	25
XL	White	IC181SOO	**D1426**	25
S	White	IC181SOO	**D1426**	25
2XL	White	IC181SOO	**1MKZ3**	25
3XL	White	IC181SOO	**5WYH3**	25
4XL	White	IC181SOO	**5WYH4**	25
Coveralls with Attached Hood, Front Zipper Closure, Elastic Wrists and Ankles				
L	White	IC180SOO	**D1429**	25
XL	White	IC180SOO	**D1429**	25
M	White	IC180SOO	**D1429**	25
2XL	White	IC180SOO	**1MKX9**	25
3XL	White	IC180SOO	**1MKY1**	25
Frock with Mandarin Collar, 6-Snap Front, Elastic Wrists				
S, M, L, XL	White	IC263SOB	**D1431**	30
2XL	White	IC263SOB	**1MKX6**	30
3XL	White	IC263SOB	**5WYJ5**	30
4XL	White	IC263SOB	**5WYJ6**	30
Frock with Front Zipper Closure, Raglan Sleeves, Elastic Wrists				
S, M, L, XL	White	IC264SOB	**D1433**	30
2XL	White	IC264SOB	**5WYJ8**	30
Lab Coat with Laydown Collar, 5-Snap Front Closure, Raglan Sleeves, Open Wrists, 3-Pockets				
M, L, XL	White	IC224SOO	**D1435**	30
2XL	White	IC224SOO	**1MKX2**	30
Bouffant, Serged Seams				
Universal	White	IC729SOB	**5WYL9**	250
5"H Shoe Covers with Gripper™ PVC Sole, Elastic Opening				
M, L, XL	White	IC451SOB	**D9839**	100
18"H Boot Covers with Gripper™ PVC Sole, Elastic Opening				
M	White	IC447SOB	**30J225**	100
L	White	IC447SOB	**30J226**	100
XL	White	IC447SOB	**30J227**	100
15"H Boot Covers with PVC Sole, Elastic Opening				
XL	White	IC444SOB	**5WYL0**	200



Boot Covers No. 4LUR2



Mask with Ear Loops No. 1MKW6 (Hairnet Sold Separately)

Shoe/Boot Covers and Masks

ProShield® Shoe and Boot Covers—Durable shoe and boot covers provide slip-resistance in both wet and dry conditions.

Sierra™ Masks—Bacteria and particle filtration efficacy.

Boot Covers—Boot covers help protect your footwear in areas with biological and chemical liquids. Elastic top provides a secure fit and the tall height accommodates most boots.

- Calf height

Size	Color	Mfr. Model	Item No.	Pkg. Qty.
ProShield® 30 Shoe and Boot Covers - Bulk Packaged - Serged Seams				
5½"H Shoe Covers with Elastic Opening, Defined Toe and Heel, Self Fabric Sole				
L, XL	White, Blue	PE440SOO	**D9837**	200
13"H Boot Covers with Elastic Leg and Ankle Opening, Self Fabric Sole				
L	White	PE444SOO	**4LUR2**	100
XL	White	PE444SOO	**4LUR3**	100
ProShield® 70 Shoe Covers - Bulk Packaged - Serged Seams				
8¼"H Shoe Covers with Elastic Ankle Opening, Slip Resistant				
L	Gray	P3450SGY000200LG	**24AF86**	200
Sierra™ Masks - Bulk Packaged				
7" General with Ear Loops				
Universal	Blue	ML7330BH	**1MKW6**	500
9" Antifog with Tyvek® Ties				
Universal	White	ML7370BH	**5WYN3**	250
Condor®				
Boot Covers				
Universal	White	2RUZ3	**2RUZ3**	50
Universal	White	2KTU4	**2KTU4**	200
XL	White	30C606	**30C606**	100
PolyCo				
M	Yellow	49355	**12Z602**	100
L	Yellow	49555	**12Z603**	100
2XL	Black	BT-C1X14-B	**29DZ57**	200
L	Yellow	97590LG00	**D7724**	1
XL	Yellow	97590XL00	**D7724**	1
2XL	Yellow	975902X00	**D7724**	1

INTERNATIONAL ENVIRO GUARD

Body Filter 95+® Protective Clothing

Disposable garbs provide protection from hazardous and noxious particulates. Fabric is breathable, abrasion-resistant, and moisture-wicking. Airflow permeability protects against heat buildup. White color. Serged seams.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Collared Coveralls - Zipper Front, Elastic Wrists, Open Ankles			
M, L, XL	4012	**D2183**	25
2XL, 3XL, 4XL	4012	**D2215**	25
Collared Coveralls - Zipper Front, Elastic Wrists and Ankles			
M, L, XL	4017	**D2185**	25
2XL, 3XL, 4XL	4017	**D2218**	25
Hooded Coveralls - Zipper Front, Elastic Face, Wrists and Open Ankles			
M, L, XL	4028	**D2187**	25
2XL, 3XL, 4XL	4028	**D2224**	25
Hooded Coveralls - Zipper Front, Elastic Face, Wrists and Attached Boots			
M, L, XL	4014	**D2189**	25
2XL, 3XL, 4XL	4014	**D2226**	25
Sleeves - Elastic Tops and Wrists			
Universal	4065	**3HKJ4**	200
Shoe Covers			
Universal	4101	**3HKK2**	200
Shoe Covers - Skid Resistant			
Universal	4100	**3HKK3**	200



Hooded Coveralls
No. D2189

Chemical-Resistant Protective Coveralls

Provide puncture- and tear-resistant protection in wet or dry applications without restricting movement.

Tychem® 2000—Provide protection from light chemical splash and biohazards. Made from polyethylene-coated DuPont™ Tyvek®.

Tychem® 4000—Provide protection against a wide range of chemicals. Made from DuPont™ Tyvek® fabric with Saranex® 23-P lamination construction.

Tychem® 9000—Multilayer chemical barrier provides broad protection for handlers of hazardous materials. Puncture-, tear-, and abrasion-resistant. Feature zipper-front, double storm flap with hook-and-loop closure.

Tychem® 2000 SFR—Protects against a range of chemicals and also provides secondary flame resistance when worn over FR garments like those made with DuPont™ Nomex®.



Tychem® 2000
No. D2252



Tychem® 4000
No. D2259



Tychem® 9000
No. D2223

▶CHOOSE: Size	Color	Seam Style	Mfr. Model	Item No.	Pkg. Qty.
Tychem® 2000					
Collared Coveralls - Zippered Front, Open Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC120S	**D2248**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC120B	**D2249**	12
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC125S	**D2251**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC125B	**D2252**	12
Hooded Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC127S	**D2253**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC127B	**D2254**	12
Hooded Coveralls - Zippered Front, Elastic Wrists, Attached Boots					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC122S	**D2255**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC122B	**D2256**	12
Sleeves - Elastic Top and Wrists					
18"	Yellow	Bound	QC500B	**2RKT3**	200
Tychem® 2000 SFR					
Hooded Chemical Resistant Coveralls					
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	Green	Taped	QS127T	**J6007**	4
Tychem® 4000					
Hooded Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	White	Bound	SL127B	**D2257**	12
M, L, XL, 2XL, 3XL, 4XL	White	Sealed	SL127T	**D2258**	6
Hooded Coveralls - Zippered Front, Elastic Wrists, Attached Socks					
M, L, XL, 2XL, 3XL, 4XL	White	Bound	SL122B	**D2259**	12
Sleeve Apron - Attached Sleeves, Elastic Wrists, Neck and Waist Ties					
—	White	Bound	SL278B	**5HH68**	12
Tychem® 9000					
Hooded Coveralls - Elastic Wrists and Ankles					
M, L, XL	Yellow	Sealed	BR127T	**D2223**	2
2XL, 3XL	Yellow	Sealed	BR127T	**D2265**	2

Tyvek® 800 J Chemical-Resistant Protective Clothing

- CE Category III Type 3-B, 4-B, 5-B, and 6-B; require additional taping for liquid-tightness

Garments combine freedom of movement, durability, and protection. They resist pressurized jets of low-concentration, water-based inorganic chemicals. Proprietary fabric is designed to offer chemical, liquid, and oil protection in very humid applications. Elastic around the face and a self-adhesive chin flap help make a tight seal around a full-face respirator.

▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TJ198T	**J6006**	25



Chemical-Resistant Protective Clothing

INTERNATIONAL ENVIRO GUARD

- ISO 6350 Liquid Chemical Penetration Test

ChemSplash 1® apparel provides a barrier against chemical exposure due to accidental liquid splash. Layered fabric with microporous layer lets heat and sweat vapor escape while protecting against dry particulates and liquids.

Description	▶CHOOSE: Size	Seam Style	Mfr. Model	Item No.	Pkg. Qty.
Coveralls					
Collared with Elastic Wrists and Open Ankles	M, L, XL, 2XL, 3XL, 4XL	Bound	7012YS	**D8412**	12
	M, L, XL	Sealed	7012YT	**D2184**	6
	2XL, 3XL, 4XL	Sealed	7012YT	**D2216**	6
Collared with Elastic Wrists and Ankles	M, L, XL, 2XL, 3XL, 4XL	Bound	7013YS	**D8413**	12
	M, L, XL	Sealed	7013YT	**D2186**	6
	2XL, 3XL, 4XL	Sealed	7013YT	**D2219**	6
Hooded with Elastic Face, Wrists, and Open Ankles	M, L, XL, 2XL, 3XL, 4XL	Bound	7015YS	**D8417**	12
	M, L, XL	Sealed	7015YT	**D2188**	6
	2XL, 3XL, 4XL	Sealed	7015YT	**D2225**	6
Hooded with Elastic Face, Wrists, and Attached Boots	M, L, XL, 2XL, 3XL, 4XL	Bound	7019YS	**D8418**	12
	M, L, XL	Sealed	7019YT	**D2191**	6
	2XL, 3XL, 4XL	Sealed	7019YT	**D2227**	6
Sleeves					
Sleeves - Elastic Tops and Wrists	18"	Serged	7065YT	**6XMT9**	200



ChemSplash 1®
No. D2184



No. D2261

Tychem® 5000 Chemical-Resistant Protective Clothing

- Meets ASTM D751

Multilayer barrier provides protection against potential exposure to 145 hazardous chemicals. Zipper front and double storm flap with hook-and-loop closure. Attached dual-layer gloves provide a high level of dexterity and tactility. Tan color.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Hooded Coveralls - Elastic Wrists, Elastic Ankles			
M, L, XL, 2XL, 3XL, 4XL	C3127T	**D2261**	6
Hooded Coveralls - Elastic Wrists, Attached Socks			
M, L, XL, 2XL, 3XL, 4XL	C3122T	**D2262**	6
Collared Coverall - Attached Gloves, Socks, and Boot Flaps			
M, L, XL	C3184T	**D2221**	6
2XL, 3XL	C3184T	**D2263**	6
Hooded Coveralls - Elastic Face, Attached Gloves and Socks			
M, L, XL	C3185T	**D2222**	6
2XL, 3XL	C3185T	**D2264**	6



Tychem® 9000 Encapsulated Suits

- Rear Entry Level B
- Meet ASTM D1777, D3776, D751, D5597, and D5034

Multilayer chemical barrier provides protection from hazardous chemicals. Feature 20-mil PVC faceshield, expanded back for SCBA respirator, 2 exhaust vents, front zipper with double storm flap and hook-and-loop closure, and outer boot flaps. Yellow color. Attached socks must be worn inside protective footwear. Hazmat boots sold separately.

Size	Mfr. Model	Item No.
M	BR528T	**1XJB9**
L	BR528T	**1XJC1**
XL	BR528T	**5HH85**
2XL	BR528T	**1XJC2**
3XL	BR528T	**5HH84**
4XL	BR528T	**4LTX4**



Tychem® 6000 FR Chemical-Resistant Protective Clothing

- Meets NFPA 1992, 2112, and 70E
- Arc rating ATPV 8 cal./cm² HRC 2

Proprietary material provides protection against flash fires, electric arc, and chemicals. Feature zipper front, double storm flap with hook-and-loop closure.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Seam Style	Mfr. Model	Item No.	Pkg. Qty.
Hooded Coveralls - Elastic Wrists, Open Ankles	M, L, XL, 2XL, 3XL	Gray, Orange	Sealed	TP198T	**D2214**	2



Jacket and Bib Overalls (Sold Separately)

Flame-Resistant Jacket and Bib Overalls (Sold Separately)

Ansell AlphaTec® Breathable Chemical-Protective Clothing

Chemical Protective Clothing, Jackets and Bibs—This everyday protective workwear has a proprietary Gore® membrane to help manage heat stress. The clothing offers exceptional liquid chemical splash protection for all-day safety. It is tough and durable but lightweight for excellent comfort. Red color.

Chemical Protective Clothing, Flame Resistant—Designed to be flame resistant while providing an exceptional barrier against organic and inorganic chemicals and biological agents. Seams are stitched with thermally stable and chemically inert TENARA® sewing thread to help provide a strong liquid and particle barrier.

▶CHOOSE: Size	Mfr. Model	Item No.
Jacket		
S, M, L, XL, 2XL, 3XL, 4XL	66-660	**J5708**
Bib Overalls		
22 in, 24 in, 25 in, 27 in, 28 in, 30 in, 34 in	66-662	**J5709**
Flame-Resistant Jacket		
L, XL, 2XL, 3XL	66-670	**J6008**
Flame-Resistant Bib Overalls		
52 in, 56 in, 60 in, 64 in	66-672	**J6009**
Flame-Resistant Coverall		
56 in, 52 in, 60 in, 64 in, 68 in XL, L, 2XL, 3XL, 4XL	66-677	**J4975**



No. J5427



No. J4515

Ansell Microchem® by AlphaTec® Chemical Resistant Clothing

68-2300 Series—Protect against harmful chemicals and blood borne pathogens, while being lightweight and relatively strong and durable. Bound seams provide superior strength in a liquid and particle barrier.

68-4000 Series—Provide an exceptional barrier against biological agents and organic and inorganic chemicals. Feature ultrasonically welded and taped seams for a strong liquid and particle barrier.

▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
Chemical Resistant Aprons				
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green	68-4000	**J5427**	20
Chemical Resistant Coveralls				
Elastic				
S, 3XL, 4XL, 5XL	Green	GR40-T-92-111-02	**J4518**	6
M	Green	GR40-T-92-111-03	**J4518**	6
L	Green	GR40-T-92-111-04	**J4518**	6
XL	Green	GR40-T-92-111-05	**J4518**	6
2XL	Green	GR40-T-92-111-06	**J4518**	6
Elastic with Sock Boot				
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green	GR40-T-92-122-02	**J4519**	6
Collared Coveralls				
Elastic				
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	68-2300	**J5429**	25
Hooded Coveralls				
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	YY23-B-92-111-05	**J4514**	25
S	Green	GR40-T-92-103-02	**J5428**	6
M	Green	GR40-T-92-103-03	**J5428**	6
L	Green	GR40-T-92-103-04	**J5428**	6
XL	Green	GR40-T-92-103-05	**J5428**	6
2XL	Green	GR40-T-92-103-06	**J5428**	6
3XL	Green	GR40-T-92-103-07	**J5428**	6
4XL	Green	GR40-T-92-103-08	**J5428**	6
5XL	Green	GR40-T-92-103-09	**J5428**	6
Elastic with Attached Socks				
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	YY23-B-92-147-04	**J4515**	25

General Purpose Boots

General purpose rubber boots keep feet dry and protected from liquid splash, including water, oil, and chemicals. They are worn over socks when feet are in constant contact with water and chemicals where regular footwear would be damaged. They are generally taller than other footwear, allowing workers to tuck in pant legs and create a higher barrier between the liquid and legs.



PVC Knee
No. E8007



Rubber Knee
No. J6298

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Half Rubber-Dipped Neoprene Knee Boots for General Use					
Composite Toe, Static Dissipative (SD), Puncture-Resistant (PR), Oil-Resistant Sole, Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Purofort	Purofort, Purotex	Black	Dunlop	K2321
Plain Toe, Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Purofort	Purofort	Black	Dunlop	K2322
PVC Knee Boots for General Use					
Plain Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	EVA, PVC	Black	Honeywell Servus	E8007
Plain Toe, Oil-Resistant Sole, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	PVC	Black	Tingley	J2248
Plain Toe, Oil-Resistant Sole, Waterproof	Flexible	PVC	Black	Talon Trax	J7543
Steel Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Black	Honeywell Servus	E4688
Steel Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC, Steel	Black, Orange	Honeywell Servus	E1715
Steel Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Plastic	PVC	Black	Tingley	J0001
Steel Toe, Oil-Resistant Sole, Waterproof	Flexible	PVC	Black	Talon Trax	J7542
Steel Toe, Puncture-Resistant (PR), Defined Heel, Waterproof	Rigid Steel	PVC, Steel	Black	Dunlop	D0322
Steel Toe, Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Polyblend, Steel	Black	Dunlop	E7181
Rubber Knee Boots for General Use					
Composite Toe, Oil-Resistant Sole, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	PVC	Brown, Tan	Tingley	J6298
	Rigid Plastic	PVC	Black, Gray	Tingley	K2258
Plain Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Rubber	Black	Alliance Mercantile Inc	J4736
Plain Toe, Oil-Resistant Sole, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	PVC	Black, Gray	Tingley	K2257
Steel Toe, Defined Heel, Waterproof	Rigid Steel	Rubber	Black	Talon Trax	D0325
Steel Toe, Metatarsal Guard, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Fiberglass	Rubber	Red	Lacrosse	J2053
Steel Toe, Metatarsal Guard, Puncture-Resistant (PR), Waterproof	Rigid Steel	Rubber, Steel	Green, Yellow	Ranger By Honeywell	G5767
Steel Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Plastic	GelFlex, UltraFlex	Blue, Gray	Baffin	G5139
	Rigid Steel	Rubber	Black	Alliance Mercantile Inc	J4735

Food Processing Boots

Food-processing boots are worn over the sock to protect workers from hazards encountered in food production and processing settings, such as animal fat, food by-products, and cleaning chemicals. They are for use in the latter part of the food production process and are not for use around live animals.

Full Rubber-Dipped Neoprene

Neoprene is flexible and form-fitting for a snug, secure fit. The rubber coating on the entire outside surface up the boot is waterproof to keep feet dry.

Lightweight PVC

Made of lightweight air-injected material that is self-insulating to keep the wearer cool in hot environments and warm in cold environments.

Ankle Boots

Cover the foot to the ankle to protect the bottom, sides, and top of the foot.

Mid-Calf Boots

Cover the foot, ankle, and lower leg to the calf. Workers can tuck pants into the overboots to keep pants dry.

Knee-High Boots

Cover the foot, ankle, and lower leg to the just below the knee to protect workers where splash and water depth are above the ankle and calf. Workers can tuck pants into the overboots to keep pants dry.



Full Rubber-Dipped
Neoprene Ankle
No. E8699



Full Rubber-Dipped
Neoprene Knee
No. E7174



Full Rubber-
Dipped Neoprene
Mid-Calf
No. H3495



Lightweight
PVC Knee
No. J5372

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Full Rubber-Dipped Neoprene Ankle Boots for Food Processing					
Plain Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Flexible	Neoprene	Brown, Tan	Xtratuf	E8699
Full Rubber-Dipped Neoprene Knee Boots for Food Processing					
Steel Toe, Electrical Hazard (EH), Cold-Insulated, Waterproof	Flexible	Neoprene	Brown, Tan	Honeywell Servus	E7174
Steel Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Neoprene Rubber, Rubber, Nitrile Rubber	Red, Brown	Tingley	G3089
Steel Toe, Electrical Hazard (EH), Waterproof	Flexible	Neoprene	Brown, Tan	Honeywell Servus	D0341
Full Rubber-Dipped Neoprene Mid-Calf Boots for Food Processing					
Plain Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Flexible	EVA, Neoprene	Brown, Tan	Xtratuf	H3495
	Flexible	Neoprene	Brown, Tan	Honeywell Servus	D0339
Steel Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Flexible	Neoprene, Neoprene Latex	Brown, Tan	Honeywell Servus	E1728
	Rigid Steel	Neoprene Rubber, Rubber, Nitrile Rubber	Red, Brown	Tingley	G3090
Lightweight PVC Knee Boots for Food Processing					
Composite Toe, Electrical Hazard (EH), Oil-Resistant Sole, Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Hardened Rubber	Aerex 1.5.5®, Hardened Rubber, Nitrile Rubber	Blue, Red	Tingley	J5371
	Rigid Hardened Rubber	Aerex 1.5.5®, Hardened Rubber, Nitrile Rubber	Black	Tingley	J5372
	Rigid Hardened Rubber	Aerex 1.5.5®, Hardened Rubber, Nitrile Rubber	Gray, Orange	Tingley	K2088
Steel Toe, Static Dissipative (SD), Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Purofort	Polyurethane, Purofort	Yellow, Black	Dunlop	J5418


PVC Knee
No. J6897


Rubber Knee
No. H2343


Rubber Knee
No. J0966


PVC Knee
No. J2626


PVC Knee
No. G1957


Polyurethane Knee
No. D9543

Farming, Agriculture & Fishery Knee Boots

Farm, agriculture, and fishery boots are worn when workers are in continuous contact with animal fluids, barnyard waste, and waste from fish and fish processing. Farming and agriculture boots are worn where feet come into contact with farm animals and animal waste produced by livestock, chickens, pigs, and other animals. Fishery boots protect against fluids in marine-related activities near oceans and lakes, including fishing and shrimping.

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Rubber Knee Boots for Farming, Agriculture, & Fisheries					
Plain Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Brown	Viking	**G3086**
PVC Knee Boots for Farming, Agriculture, & Fisheries					
Plain Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Flexible	PVC	Black	Dunlop	**J6897**
Plain Toe, Oil-Resistant Sole, Non-Metallic, Waterproof	Flexible	PVC	White	Talon Trax	**J2625**
Rubber Knee Boots for Farming, Agriculture, & Fisheries					
Steel Toe, Metatarsal Guard, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Black, Yellow	Viking	**E4402**
Steel Toe, Metatarsal Guard, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Rubber	Black, Yellow	Viking	**J0966**
Steel Toe, Oil-Resistant Sole, Chain Saw Cut-Resistant, Defined Heel, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Orange, Black	Viking	**H0826**
Steel Toe, Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Steel	Nitrile Butadiene Rubber	Brown	Viking	**H2343**
PVC Knee Boots for Farming, Agriculture, & Fisheries					
Steel Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Flexible	PVC	Black	Dunlop	**J6898**
Steel Toe, Oil-Resistant Sole, Waterproof	Flexible	PVC	White	Talon Trax	**J2626**
Steel Toe, Oil-Resistant Sole, Waterproof	Rigid Steel	PVC	Green	Talon Trax	**G1957**
Polyurethane Knee Boots for Farming, Agriculture, & Fisheries					
Steel Toe, Static Dissipative (SD), Puncture-Resistant (PR), Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Purofort	Polyurethane, Purofort	Black, Green	Dunlop	**D9543**
Steel Toe, Static Dissipative (SD), Puncture-Resistant (PR), Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Purofort	Polyurethane, Purofort	Green, Brown	Dunlop	**D9542**


Haz-Mat PVC
Ankle
No. D0462


Haz-Mat PVC
Knee
No. D0328


Haz-Mat PVC
Mid-Calf
No. D0466

Hazardous Materials Boots

Hazardous materials (hazmat) rubber boots are worn over-the-sock to protect feet from nerve agents and extremely harsh and caustic chemicals, such as those encountered when responding to hazmat emergencies or when working in chemical processing. They are tested to meet NFPA 1991 (Edition 2016) standards for vapor-protective ensembles for hazardous materials emergenices. Hazmat boots are generally worn with other protective equipment. PVC is highly chemical-resistant and dielectric. Steel toes protect the front of the foot from minor injuries caused by walking into obstacles.

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Haz-Mat PVC Ankle Boots for Exposure to Hazardous Materials					
Steel Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Hazmax, PVC, Steel	Green	Dunlop	**D0462**
Haz-Mat PVC Knee Boots for Exposure to Hazardous Materials					
Steel Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC, Steel	Green	Dunlop	**D0328**
Haz-Mat PVC Mid-Calf Boots for Exposure to Hazardous Materials					
Steel Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC, Steel	Orange, Cream	Tingley	**D0466**



Polyurethane Knee
No. J5674



PVC Knee
No. D0345



PVC Knee
No. J7538



Rubber Knee
No. G3688

TALON TRAX™ SERVUS by Honeywell TINGLEY A TRADITION SINCE 1896

Oil, Gas & Mining Boots

These waterproof knee boots are worn in petrochemical and mining operations where chemical resistance and heavy-duty features are required. Knee-height boots protect the foot, lower leg, and calf to just below the knee. PVC is lighter than rubber to reduce fatigue when boots are worn all day.

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Polyurethane Knee Boots for Oil, Gas, & Mining					
Composite Toe, Oil-Resistant Sole, Waterproof	Flexible	Polyurethane	Orange	Talon Trax	**J5674**
PVC Knee Boots for Oil, Gas, & Mining					
Plain Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Black, Red, Gray	Honeywell Servus	**D0344**
	Rigid Steel	PVC	Gray, Red, Black	Honeywell Servus	**E4691**
Plain Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Brown, Green, Olive	Honeywell Servus	**D0377**
	Rigid Steel	PVC, Rubber	Black, Navy, Red	Honeywell Servus	**F2793**
Plain Toe, Oil-Resistant Sole, Waterproof	Rigid Steel	PVC	Red	Talon Trax	**J7539**
Steel Toe, Electrical Hazard (EH), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Black, Yellow, Gray	Honeywell Servus	**D0345**
	Rigid Steel	PVC	Gray	Honeywell Servus	**D0378**
Steel Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Gray, Cream, Yellow	Honeywell Servus	**D0379**
Steel Toe, Oil-Resistant Sole, Waterproof	Rigid Steel	PVC	Red	Talon Trax	**J7538**
Rubber Knee Boots for Oil, Gas, & Mining					
Steel Toe, Metatarsal Guard, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Rubber, Steel	Black	Tingley	**G3688**



Half Rubber-Dipped Neoprene Knee
No. 35GU60



Half Rubber-Dipped Neoprene Knee
No. G5149



Rubber Knee
No. K2465



Rubber Knee
No. G5142

LaCrosse Rainfair SAFETY PRODUCTS · Original MUCK BOOT COMPANY · XTRATUF® · BAFFIN®

Winter, Cold-Insulated Rubber Boots

Winter cold-insulated boots are worn over the sock when feet are exposed to cold, wet conditions and below-freezing temperatures. The exterior is waterproof to keep feet dry. Knee-height boots protect the foot, lower leg, and calf to just below the knee.

Rubber exterior is waterproof and chemical-resistant.
Neoprene is flexible and form-fitting to provide a snug, secure fit.

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Half Rubber-Dipped Neoprene Knee Boots for Wintery, Cold Conditions					
Composite Toe, Electrical Hazard (EH), Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Fiberglass	Rubber, Rubber Over Neoprene	Black	Lacrosse	**35GU60**
	Rigid Fiberglass	Rubber, Rubber Over Neoprene	Black	Lacrosse	**J2051**
Plain Toe, Electrical Hazard (EH), Oil-Resistant Sole, Cold-Insulated, Waterproof	Rigid Steel	EVA, Rubber	Black	The Original Muck Boot Co.	**G5149**
Plain Toe, Oil-Resistant Sole, Cold-Insulated, Waterproof	Flexible	Rubber	Brown, Beige	Xtratuf	**K2465**
Rubber Knee Boots for Wintery, Cold Conditions					
Composite Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	Polyurethane, Rubber	Green, Orange, Black	Baffin	**G5141**
Plain Toe, Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	EVA, Polyurethane, Rubber	Green, Black	Baffin	**E7850**
Plain Toe, Electrical Hazard (EH), Cold-Insulated, Non-Metallic, Defined Heel, Waterproof	Rigid Plastic	EVA, Polyurethane, Rubber	Green	Baffin	**E7851**
Steel Toe, Electrical Hazard (EH), Cold-Insulated, Defined Heel, Waterproof	Rigid Plastic	Polyurethane, Rubber	Green, Black	Baffin	**E7852**
Steel Toe, Electrical Hazard (EH), Puncture-Resistant (PR), Oil-Resistant Sole, Cold-Insulated, Defined Heel, Waterproof	Rigid Plastic	Oarprene, Rubber	Black	Baffin	**G5142**
	Rigid Plastic	Oarprene, Rubber	Black, Tan	Baffin	**G5140**



PVC Chest-Waders
No. E8462



PVC Hip-Waders
No. F2803



Rubber Hip-Waders
No. D0327

Waders

Waterproof waders are worn over the sock and extend to the hips or chest to cover more of the body than knee boots, allowing wearers to stay dry when working in deep water. They are worn by water and wastewater workers, plumbers, and others who work in deep water. Rubber and PVC are chemical-resistant. PVC weighs less than rubber, reducing fatigue when waders are worn for long periods of time.

Safety Criteria	Midsole Construction	Footwear Material	Brand	Item No.
PVC Chest Waders for General Use				
Steel Toe, Defined Heel, Waterproof	Rigid Steel	PVC	Dunlop	**D0314**
Steel Toe, Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Polyblend, PVC	Dunlop	**E8462**
PVC Hip-Waders for Geneal Use				
Plain Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Dunlop	**F2803**
Steel Toe, Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	PVC	Dunlop	**E8463**
Steel Toe, Puncture-Resistant (PR), Oil-Resistant Sole, Defined Heel, Waterproof	Rigid Steel	Polyblend, PVC	Dunlop	**E8464**
Rubber Hip-Waders for General Use				
Steel Toe, Defined Heel, Waterproof	Rigid Steel	Rubber	Talon Trax	**D0327**

IMPACTO



No. D4919



No. D9577



No. D9539

Anti-Fatigue Overshoes

Anti-fatigue overshoes attach to existing footwear to provide a cushioned base that can help reduce back and leg pain caused by standing or walking for long periods of time. They are often used by warehouse and assembly line workers and food service personnel where anti-fatigue mats are impractical. Anti-fatigue overshoes for **food service applications** are resistant to water, cleaning chemicals, and oils. **Lightweight overshoes** weigh less than general purpose overshoes to reduce fatigue when wearing them all day.

Safety Criteria	Midsole Material	Footwear Closure	Color	Item No.
Anti-Fatigue Overshoes for Food Service Applications				
Non-Metallic, Oil-Resistant Sole	Polymer PVC	Adjustable Straps	Black	**D4919**
Anti-Fatigue Overshoes for General Use				
Non-Metallic, Oil-Resistant Sole	Polymer PVC	Adjustable Straps	Black	**D9577**
Lightweight Anti-Fatigue Overshoes for General Use				
Non-Metallic	Polymer PVC	Adjustable Straps	Black	**D9539**



Ankle
No. D0707



Ankle
No. F0545



Knee
No. F0547



Knee
No. D0708

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

SERVUS by Honeywell

Dielectric Overboots & Overshoes

Dielectric overboots and overshoes meet ASTM F12413-11 electrical-hazard standards to protect the wearer from electrical shock. **Ankle-high** overshoes cover the bottom, sides, and top of the foot. **Knee-high** overboots cover the foot and lower leg up to the knee.

Safety Criteria	Midsole Material	Footwear Closure	Color	Brand	Item No.
Ankle					
Electrical Hazard (EH), Non-Metallic, Waterproof	Rubber	Slip-On	Red	Salisbury	**D0707**
	Rubber	Slip-On	Yellow	Honeywell Servus	**F0545**
	Rubber	Buckle	Yellow	Honeywell Servus	**F0546**
Knee					
Electrical Hazard (EH), Non-Metallic, Waterproof	Rubber	Pull-On with Adjustable Strap	Yellow	Honeywell Servus	**F0547**
	Rubber	Pull-On	Black, Red	Salisbury	**D0708**

General Purpose Overboots & Overshoes

General purpose overboots and overshoes are waterproof to keep feet dry and provide some chemical resistance. They can be put on and taken off without removing existing footwear, making them convenient for intermittent use or use by individuals who require orthotics, who want to use their own footwear, or who have other special footwear considerations.

Overshoes

Slip over existing footwear to cover the foot to the ankle to protect the bottom, sides, and top of the foot.

Mid-Calf Overboots

Cover the foot, ankle, and lower leg to the calf. Workers can tuck pants into the overboots to keep pants dry.

Knee-High Overboots

Cover the foot, ankle, and lower leg to the just below the knee to protect workers where splash and water depth are above the ankle and calf. Workers can tuck pants into the overboots to keep pants dry.

Safety Criteria	Upper Material	Footwear Closure	Color	Brand	Item No.
General Purpose Overshoes					
Plain Toe, Non-Metallic, Waterproof	PVC	Pull-On	Yellow	Dunlop	**H9175**
	PVC/Flex-O-Thane	Pull-On	Black	Dunlop	**D0315**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J4037**
	Rubber	Pull-On	Black	Tingley	**D0463**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8299**
Plain Toe, Oil-Resistant Sole, Non-Metallic, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2318**
	PVC	Pull-On	Yellow	Tingley	**E9344**
	PVC	Pull-On	Black	Tingley	**E1192**
	PVC	Stretch Fasteners	Black, Yellow	Honeywell Servus	**G5766**
	PVC/Vinyl	Slip-On	Black	Talon Trax	**D0316**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8299**
Plain Toe, Waterproof	Rubber	Pull-On with Snaps	Black	Super Grit	**J0002**
Steel Toe, Oil-Resistant Sole, Waterproof	PVC	Pull-On	Black, Yellow	Tingley	**D0465**
General Purpose Mid-Calf Overboots					
Plain Toe, Non-Metallic, Waterproof	Polyurethane	Pull-On with Adjustable Strap	Blue, White	Honeywell Servus	**D0352**
	Polyurethane	Pull-On with Adjustable Strap	Blue, White	Honeywell Servus	**E7848**
	PVC	Stretch Fasteners	Black	Dunlop	**H9178**
	PVC/Flex-O-Thane	Pull-On with Snaps	Black	Dunlop	**D0317**
	PVC/Flex-O-Thane	Pull-On with Snaps	Yellow	Dunlop	**F2806**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J4036**
	Rubber	Buckle	Black	Talon Trax	**D0321**
	Rubber	Pull-On with Button	Black	Tingley	**D0464**
Plain Toe, Oil-Resistant Sole, Non-Metallic, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2319**
	PVC	Pull-On with Button	Black	Tingley	**E3486**
	PVC	Pull-On with Button	Yellow	Tingley	**E9345**
Plain Toe, Oil-Resistant Sole, Waterproof	PVC/Vinyl	Pull-On with Snaps	Black	Talon Trax	**D0318**
Plain Toe, Waterproof	Rubber	Pull-On with Snaps	Black	Super Grit	**J0003**
	Rubber	Pull-On with Button	Black	Tingley	**J7328**
General Purpose Knee-High Overboots					
Plain Toe, Non-Metallic, Waterproof	PVC/Flex-O-Thane	Pull-On with Snaps	Black	Dunlop	**D0319**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J0005**
Plain Toe, Oil-Resistant Sole, Non-Metallic, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2320**
	PVC	Pull-On with Button	Black	Tingley	**E3487**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8298**
Plain Toe, Waterproof	Rubber	Pull-On with Snaps	Black	Super Grit	**J0004**
	Rubber	Pull-On with Adjustable Strap	Black, Yellow	Talon Trax	**D0326**



PVC Overshoe Ankle No. D0316



PVC Mid-Calf No. D0317



Rubber Knee No. D0326

Winter Overboots

Winter overboots are worn over existing footwear to keep feet warm and protect them from water, snow, and slush. They are used by service professionals who work outdoors for long periods of time or who might need occasional protection. **Winter overboots with traction aids** provide secure footing to help reduce slips and falls. **Lightweight overboots** are lighter and more compact than general purpose overboots while providing similar protection from cold.

Safety Criteria	Footwear Sole Pattern	Insulated	Closure Type	Color	Brand	Item No.
Winter Overboots with Traction Aid for Sustained Outdoor Use						
Plain Toe, Cold-Insulated, Non-Metallic, Waterproof	Ribbed	Yes	Drawstring w/ Adjustable Ankle Strap	Black	Neos Overshoe	**D0348**
Plain Toe, Non-Metallic, Waterproof	Ribbed	No	Adjustable Strap	Black	Neos Overshoe	**D0349**
Lightweight Winter Overboots						
—	Studs	Yes	Hook-and-Loop	Black	Tingley	**J5374**
	Cleated	Yes	Hook-and-Loop	Black	Tingley	**J5374**
Plain Toe, Cold-Insulated, Non-Metallic, Waterproof	Mutli Directional Lug	Yes	Buckle	Black	Neos Overshoe	**E6669**
	Multi Directional Lug	Yes	Buckle	Black	Neos Overshoe	**E6669**
	Lug	Yes	Buckle	Black	Neos Overshoe	**E6671**
Plain Toe, Non-Metallic, Waterproof	Ribbed	No	Adjustable Strap	Black	Neos Overshoe	**E4783**



Winter Overboots w/ Traction No. D0349



Lightweight Winter Overboots No. J5374



Lightweight Winter Overboots No. E6671



Lightweight Winter Overboots No. E4783



Latex Mid-Calf
No. D0329



PVC Knee
No. E8154



Latex Rubber Ankle
(Shown on Boot, Not Included)
No. J6285



Rubber Ankle
(Shown on Boot, Not Included)
No. J6280

GA GRAINGER APPROVED

Hazardous Materials Overboots & Overshoes

Hazardous materials (hazmat) overboots meet NFPA 1991 (Edition 2016) specifications to protect first responders from hazardous materials such as nerve agents and extremely harsh and caustic chemicals. They are worn over existing footwear in chemical processing and when workers are exposed to corrosive chemicals and hazardous waste. **Latex rubber** stretches and resists tears and cuts. **PVC** is lighter than rubber.

Safety Criteria	Upper Material	Footwear Closure	Color	Pkg. Qty.	Brand	Item No.
PVC Mid-Calf Overboots for use with Hazardous Materials						
Plain Toe, Oil-Resistant Sole, Non-Metallic, Waterproof	Latex	Pull-On	Yellow	1	GA	**D0329**
Latex Rubber Mid-Calf Overboots for use with Hazardous Materials						
Non-Metallic, Waterproof	Rubber	Pull-On	Yellow	50	Isa Corporation	**J6288**
PVC Knee Overboots for use with Hazardous Materials						
Steel Toe, Oil-Resistant Sole, Waterproof	PVC	Pull-On with Adjustable Strap	Green	1	Dunlop	**E8154**
Latex Rubber Ankle Overboots for use with Hazardous Materials						
Non-Metallic, Waterproof	Rubber	Pull-On	Yellow	1	Isa Corporation	**J6284**
			Blue			**J6285**
			Red			**J6286**
			Black			**J6287**
			Yellow	100		**J6280**
			Blue			**J6281**
			Red			**J6282**
			Black			**J6283**



Safety
Toe Caps
No. J5460



Foot Guard
No. 5T457



Toe Guard
No. 5T455





Metatarsal Guards
No. 2KTC9



Foot Guard
No. 5T456



Leg Guards
No. 5T458



Full-Soled Safety Toe Overshoes
No. G2613

IMPACTO GA GRAINGER APPROVED

Safety Toe Overshoes, Toe Caps & Metatarsal Guards

Safety-toe overshoes, toe caps, and metatarsal guards are worn over regular shoes or boots when protection is needed intermittenly. **Safety toe caps** protect the front of the foot and top of the toes from damage caused by walking into obstacles. **Metatarsal guards** protect the top of the foot from light impact injuries, and **leg guards** protect the top of the foot and shin.

Item	Material	Type	Color	Brand	Item No.
Safety Toe Caps					
Toe Cap	Steel	—	Black, Green, Black, Red, Black, White	Impacto	**J5460**
Toe Cap	—	—	Black	Gaston Mille Inc	**J5380**
Foot Guard	Plastic	Strap On	Green	GA	**5T457**
Toe Guard	Steel	Strap On	Silver	GA	**5T455**
Metatarsal Guards					
Foot Guard	Aluminum	Strap On	Silver	GA	**1AG91**
Foot Guard	Polycarbonate	Lace Up	Black	Impacto	**2KTC9**
Foot Guard	Aluminum	Strap On	Silver	GA	**5T454**
Foot Guard	Aluminum	Rubber Strap	Silver	GA	**5T456**
Replacement Strap	Nylon	Strap On	Black	Impacto	**4HCR7**

Item	Material	Type	Color	Brand	Item No.
Leg Guards					
Knee and Shin Guard	Plastic	Strap On	Black	GA	**5T459**
Shin Guard	Plastic	Strap On	Black	GA	**5T458**
Full-Soled Safety Toe Overshoes					
Overshoe	Vulcanized Rubber, Steel Toe	—	Black	Impacto	**D0468**
Overshoe	Rubber	Slip On	Black	Impacto	**D0468**
Overshoe	—	—	Black	Gaston Mille Inc	**J5379**
Overshoe	Rubber, Steel Toe	—	Black	Impacto	**G2613**
Overshoe	—	—	Black, Purple	Impacto	**G2613**
Overshoe	PVC	Steel-Toe	Black, Gray, Black, White, Black, Yellow, Black, Red, Black, Blue, Black, Green	Impacto	**G2613**

WINTER WALKING | SEYMOUR MIDWEST

Floor Stripping & Coating Overshoes

Floor stripping and coating overshoes are worn over existing footwear to protect floors and provide traction to reduce slips and falls. They are worn on slippery floors or when workers are removing an existing or adding a new floor finish. The surface covers the bottom of the foot and is nonmarring. **Traction overshoes** have a sole that is coated with a nonmarring abrasive grit to increase traction and protect floor surfaces. **Rigid-spiked overshoes** minimize contact with freshly applied coatings, allowing it to flow back into place after workers walk on it.



No. J5424



No. D8353



No. 3YPC6



No. 3YPC1

Replacement Spike No. 3YPC2



Item	Material	Footwear Closure	Spike Length	Color	Pkg. Qty.	Brand	Item No.
Traction Overshoes for Floor Stripping							
Floor Stripping Overshoe	Polyester	Adjustable Straps	—	Black	1	Paws	**J5424**
Floor Stripping Overshoe	Vinyl	Adjustable Straps	—	Red	1	Paws	**J5424**
Floor Stripping Overshoe	Rubber	Pull-On	—	Black	1	Paws	**J5419**
Floor Stripping Overshoe	Vinyl	Pull-On	—	Black	1	Winter Walking	**D8353**
Rigid-Spiked Overshoes for Floor Coating							
Floor Stripping Overshoe	Rubber	Buckle	½ in	Black	1	Seymour Midwest Rake	**3YPC6**
Floor Stripping Overshoe	Polypropylene	Buckle	¾ in	Black	1	Seymour Midwest Rake	**3YPC1**
Replacement Spikes	Steel	—	½ in	Silver	40	Seymour Midwest Rake	**3YPC7**
Replacement Spikes	Steel	—	¾ in	Silver	26	Seymour Midwest Rake	**3YPC2**



No. 230Z79



No. D9581



No. G2175



No. J5437

WINTER WALKING | duenorth INDUSTRIAL TRACTION | STABIL | IMPACTO | TINGLEY A TRADITION SINCE 1896 | ICEtrekkers | YAKTRAX

Traction Devices

Traction devices attach to the bottom of existing footwear to provide secure footing when walking on ice, snow, and other wet or slippery surfaces. Transitional traction devices are attached with straps and can be moved out of the way when moving indoors. Devices for sustained use are designed to be worn for longer periods of time either indoors or outdoors.

For Use on Surface Types	Upper Material	Traction Type	Traction Material	Traction Attachment Style	Footwear Coverage Style	Brand	Item No.
Traction Devices for Transitional Indoor/Outdoor Use							
Ice, Oil, Snow	PVC	Grit	Aluminum Oxide	Pull-On	Ball, Heel	Winter Walking	**D8348**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Strap-On	Mid-Sole	K1 Series	**230Z79**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Heel	Due North	**39J091**
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**J4485**
Traction Devices for Sustained Indoor Use							
Ceramic, Concrete, Dry Floors, Grease, Oil, Tile, Wet Floors	Nylon	Grit	Synthetic Fibers	Strap-On	Ball, Heel, Mid-Sole	Tracmates	**D9581**
Ice, Snow	Rubber	Grit	Rubber	Pull-On	Ball, Heel, Mid-Sole	Stabilicers	**J1697**
Traction Devices for Sustained Outdoor Use							
Ice, Snow	1200D Nylon	Stud	Steel	Pull-On	Mid-Sole	Impacto	**55MM76**
Ice, Snow	1200D Nylon	Stud	Brass	Pull-On	Mid-Sole	Impacto	**55MM77**
Ice, Snow	Polyester	Stud	Tungsten Carbide	Strap-On	Heel, Mid-Sole	Due North	**55EF01**
Ice, Snow	Polyester	Stud	Tungsten Carbide	Strap-On	Mid-Sole	Due North	**55EF02**
Ice, Mud, Snow	PVC	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**G6610**
Ice	Rubber	Grit	Aluminum Oxide	Pull-On	Ball, Heel	Winter Walking	**K2317**
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**J5448**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Tingley	**G0007**
Ice, Mud, Snow	Rubber	Chain	Steel	Strap-On	Ball, Heel, Mid-Sole	ICEtrekkers	**G2175**
Concrete, Gravel, Ice, Mud, Snow	Rubber	Chain	Steel	Strap-On	Ball, Heel, Mid-Sole	ICEtrekkers	**G2174**
Ice, Snow	Rubber	Coil	Steel	Strap-On	Ball, Heel, Mid-Sole	Yaktrax	**E3929**
Traction Devices for Occasional Outdoor Use							
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**D8347**
Ice	Rubber	Stud	Steel	Pull-On	Ball, Heel	Winter Walking	**J5437**
Asphalt, Concrete, Gravel, Ice	Rubber	Stud	Steel	Pull-On	Ball, Heel	Trex By Ergodyne	**G0001**
Asphalt, Concrete, Gravel, Ice	Rubber	Stud	Steel	Strap-On	Ball, Heel	Trex By Ergodyne	**G0002**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Heel	Due North	**J4985**



No. H9460



No. H9578



No. D6705



No. E2112



No. E7700

Men's 6" Safety Work Boots

Timberland PRO

▪ **All available in sizes between 7-14**

Rubber outsole is abrasion-, slip- and oil-resistant.

Note: All styles are available in medium width; for wide widths and additional sizes, go to grainger.com/footwear

Style No. 1064—Designed with lightweight, flexible cement construction, these boots feature a microfiber leather upper, a mesh lining with antimicrobial treatment, a removable open cell polyurethane insole, an EVA midsole, a rubber outsole, and a fiberglass shank.

Style No. 26063—Features shaped alloy safety toes for lightweight protection and fit. Cement construction provides flexibility and reduced break-in time. Molded polyurethane midsole for lightweight, durable cushioning. Contoured open-cell polyurethane footbed has temperature-regulating technology sock cover to keep your feet drier.

Style No. 47592—Premium full-grain leather upper for comfort and abrasion resistance. Breathable water-impermeable lining helps to keep feet dry in most types of wet conditions. Mesh lining has antimicrobial treatment for odor control.

Style No. 52562—Antifatigue technology includes a contoured footbed, an antimicrobial mesh liner, and roomy toe provide all-day comfort. Steel shank delivers structural support, and a puncture-resistant footplate provides flexible underfoot protection.

Style No. 85594—Leather work boot is designed with antifatigue technology for long hours in tough conditions. Features a contoured single-density open-cell polyurethane footbed with antimicrobial cover for breathability and odor control.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
1064A	Alloy	Yes	No	No	No	Best	Black	**H9460**
26063	Alloy	Yes	No	No	No	Better	Brown	**E2112**
47592	Steel	Yes	Yes	Yes	No	Better	Black	**H9578**
52562	Steel	Yes	No	Yes	No	Better	Brown	**E7700**
85594	Alloy	Yes	Yes	No	No	Better	Brown	**D6705**



No. H8736



No. H8735



No. H8738



No. H9082

Men's 6" Safety Work Boots

WOLVERINE

▪ **All available in sizes between 7-14**

Nylon shank offers excellent structural support.

Note: All styles are available in medium and wide widths; for additional sizes and widths go to grainger.com/footwear

Style No. 4713—Steel-toe work boots feature resilient cushioning with lightweight, fatigue-fighting support. Additional features include a full-grain leather upper, a moisture-managing mesh lining, a removable, open cell, full cushion polyurethane footbed, a polyurethane midsole, and a rubber lug outsole.

Style No. 04714—Mesh-lined leather boots have a removable full-cushion footbed, and polyurethane midsole. The rubber lug outsole improves traction on wet and slippery surfaces.

Style No. 10112—Waterproof work boots are designed with innovative materials to create more comfort and flexibility without sacrificing safety. The heritage-look waterproof leather upper keeps feet dry, with lightweight construction, a protective composite toe, and a resilient, removable cushioned footbed.

Style No. 10304—Security-friendly boots feature a waterproof full-grain leather upper, EVA midsole with high-visibility reflective wrap, and rubber outsole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
W04713	Steel	Yes	No	No	No	Best	Walnut	**H8736**
W04714	Steel	Yes	No	No	No	Best	Black	**H8735**
W10112	Composite	Yes	Yes	No	No	Best	Black	**H8738**
W10304	Composite	Yes	Yes	No	No	Best	Black	**H9082**

Men's 6" Safety Work Boots

IRON AGE

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11M I/75 C/75 EH

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style No. 5002—100% nonmetallic boots have a full-grain leather upper with padded collar, removable EVA cushion footbed, sponge rubber heel bed, and rubber outsole. Cement construction.

Style No. 5007—Full-grain leather upper, nylon mesh liner, removable EVA insole, sponge heelbed, and rubber outsole in 100% nonmetallic design. Plastic shank. Cement construction.

Style No. 5150—Leather upper, nonmetallic eyelets, removable EVA insole with sponge rubber heel wedge, EVA cushion midsole, and rubber outsole. Cement construction.



No. G5169



No. H9504



No. G5181

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
IA5002	Composite	Yes	No	No	No	Best	Brown	G5169
IA5007	Composite	Yes	No	No	No	Best	Black	H9504
IA5150	Steel	Yes	No	No	No	Best	Black	G5181

Men's 6" Safety Work Boots

Thorogood SHOES

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75/C/75

Style No. 8044200—Electrical-resistant boots have an oil-tanned leather upper with a cotton drill vamp lining, removable dual-density molded polyurethane insole, rubber midsole, and single-density polyurethane MAXwear Wedge™ outsole. Engineered composite shank. Goodyear storm welt construction.

Style No. 8046190—Waterproof boots have a leather/mesh upper with a two-zone wicking mesh/Thoro>dri™ WATERPROOF System lining that is Blood Borne Pathogen Compliant. Features a removable dual-density polyurethane SHOCK ZONE footbed, rubber midsole, and Z-Trac ASR rubber outsole with integrated EVA impact pads. Engineered composite shank. Cement construction.



No. G5437



No. H9159

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
804-4200	Steel	Yes	No	No	No	Better	Brown	G5437
8046190	Composite	Yes	Yes	No	No	Best	Black	H9159

Men's 6" Safety Work Boots

carhartt

- Available in sizes 8 to 15
- Meet ASTM 2413-11 M I/75 C/75 EH

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 6346—Lightweight waterproof boots feature a coated leather upper with a breathable waterproof bootie, breathable foam collar and tongue, a comfortable Ortholite insole, and a rubber outsole. Nylon shank. Cement construction.

Style No. 6366—Durable boots feature an oil-tanned leather upper, EVA midsole with PU Strobel pad, and a padded insole for maximum cushioning and flexibility. Sole is oil-, chemical-, and slip-resistant.

Style No. 6220—Bison boots have an oil-tanned leather upper and a dual-density polyurethane outsole with direct-attach welt construction for added durability. Feature a padded collar, foam-padded comfort tongue, and molded TPU heel counter with Achilles flex joint.



No. H9512



No. H3860



No. G2228

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
CMA6346	Composite	Yes	Yes	No	No	Better	Dark Brown	H9512
CMF6366	Composite	Yes	No	No	No	Best	Brown	H3860
CMW6220	Steel	Yes	Yes	No	No	Better	Brown	G2228



No. H9458



No. J5280



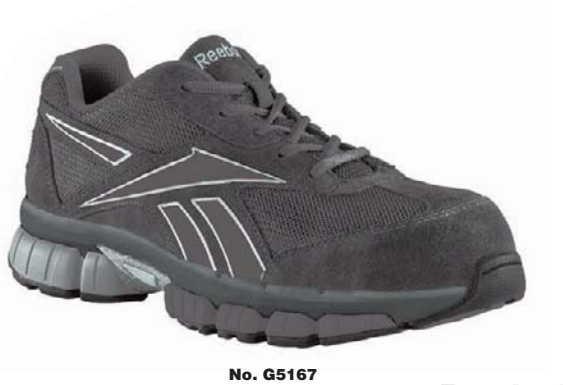
No. J5270



No. J2864



No. H2757



No. G5167

Men's Safety Work Shoes

Reebok

- **Available in sizes 7 to 14; additional sizes at Grainger.com®**

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style RB1061—These work shoes are designed with extra-wide composite toe cap and feature nylon mesh lining with injected EVA removable cushion footbed. Dual-density outsole, lightweight injected EVA cushion midsole with wraparound TPU heel shank stabilizer. 100% nonmetallic.
- Meets ASTM F2413-11 I/75 C/75

Style RB3502—Features no exposed metal on upper and MemoryTech foam removable cushion footbed. The style is designed with slip-resistant rubber outsoles and moisture-wicking nylon mesh lining.
- Meets ASTM F2413-11

Style RB3604—Built with comfortable DMX moving-air technology, MemoryTech Massage removable cushion footbed, dual resistor ESD, and no exposed metal on upper. The shoes feature slip-resistant rubber outsole and injected EVA midsole. Moisture-wicking nylon mesh lining helps keep you dry.
- Meets ASTM F2413-11

Style RB4005—Leather and mesh upper with MicroWeb and no exposed metal. Oxfords feature moisture-wicking nylon mesh, FootFuel® injected EVA cushion footbed, and light EVA cushion midsole with rubber outsole.
- Meets ASTM F2413-11

Style RB1910—Designed with suede leather upper, a 2-color Grip Master slip-resistant rubber outsole, and EVA cushion midsole.
- Meets ASTM F2413-05 M I/75 C/75 EH

Style RB4895—Leather and mesh upper. Extra-wide toe for comfort. Designed with tridensity comfort system with an EVA midsole and rubber bottom. Wrap-around shank stabilizer.
- Meets ASTM F2413 EH

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
RB1061	Composite	No	No	No	No	Best	Black/Red	**H9458**
RB3502	Steel	Yes	No	No	No	Best	Navy	**J5280**
RB3604	Alloy	Yes	No	No	No	Best	Gray/Blue	**J5270**
RB4005	Steel	Yes	No	No	No	Best	Gray/Red	**J2864**
RB1910	Steel	Yes	No	No	No	Best	Black	**H2757**
RB4895	Composite	Yes	No	No	No	Better	Black/Silver	**G5167**



No. J2770

SKECHERS MADE TO LAST FOR WORK

Men's Athletic Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet F2413-11 I/75 C/75 EH

Style No. 77013—Lightweight and flexible, composite-toe work shoes feature a leather/mesh upper, a cambrella mesh liner, and a removable memory foam insole. The protective toe cap is larger than a standard toe cap allowing more room for your toes to flex and bend.

Style No. 77068—Sporty aesthetics combine with comfort and safety in this alloy toe slip-resistant sneaker. Feature smooth soft trubuck leather and synthetic upper with stitching and overlay accents. Memory Foam insole.

Style No. 77083—Relaxed Fit® design for a roomy comfortable fit. Black leather and mesh fabric upper with soft mesh lining, padded collar and tongue, gel-infused Memory Foam cushioned insole, and slip-resistant rubber traction outsole for improved traction in mud, snow, and grass-covered environments.



No. J2771



No. J5311

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
77013-BLK	Composite	Yes	No	No	No	Good	Black	**J2770**
77068-BKCC	Alloy	Yes	No	No	No	Good	Black/ Charcoal	**J2771**
77083 -BLK	Alloy	No	No	No	No	Good	Black	**J5311**

Nautilus SAFETY FOOTWEAR

Men's Athletic Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet F2413-11 I/75 C/75

Style No. 1343—Constructed with nylon and synthetic leather with a comfortable EVA midsole, steel safety toe, static dissipative technology, removable anti-fatigue polyurethane insole, and a durable slip- and oil-resistant sole. Static dissipative.

Style No. 2422—Composite toe shoes have a wedge EVA midsole for added support and comfort and a vegan friendly mesh and synthetic upper. Also feature full-contact slip- and oil-resistant rubber outsole. Static dissipative.



No. H9469



No. J5129

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
N1343	Steel	No	No	No	No	Good	Gray/Red	**H9469**
N2422	Composite	No	No	No	No	Best	Red	**J5129**

Timberland PRO

Men's Athletic Style Work Shoes

- Available in sizes 7 to 15
- Meet F2413-11 I/75 C/75

Style No. A1GT9—Provide low-profile comfort and protection with self-molding footbeds, built-in static-dissipative performance, and antifatigue technology. Premium ripstop nylon uppers with TPU toe and heel overlay include a mesh lining with antimicrobial treatment for odor control and comfort. Outsole is slip-, oil-, and abrasion-resistant.



No. J5306

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
A1GT9	Alloy	No	No	No	No	Better	Gray	**J5306**



No. H9680



No. H9689

KEEN UTILITY

Men's Safety Work Shoes and Boots

- Available in sizes 8 to 15; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75 C/75 EH

Tough footwear has reflective webbing on uppers to aid visibility. Removable dual-density EVA insoles. Wide toe caps have room for toes to flex and bend. Durable oil- and slip-resistant, nonmarking rubber outsoles.

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style No. 1007024—Hiker-style boot has a nubuck leather upper, hydrophobic/hydrophilic comfort lining, full-length TPU interlocking torsion plate, and dual-density EVA and polyurethane midsole. Waterproof.

Style No. 1011242—Waterproof hiker-style boot with leather upper, hydrophobic/hydrophilic comfort lining, TPU stability shank, and polyurethane midsole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
1007024	Steel	Yes	Yes	No	No	Good	Brown	H9680
1011242	Steel	Yes	Yes	No	No	Better	Brown	H9689



No. E3927



No. H9587

Timberland PRO

Men's Safety Work Shoes

- Available in sizes 7 to 15
- Meet ASTM F2413-11 M I/75 C/75 EH

Titan® oxford work shoes feature full-grain leather upper, alloy safety toe, nylon mesh liner with an antimicrobial treatment for odor control, nylon shank, polyurethane midsole, 90° heel, and durable rubber outsole that resists oil, slips, and abrasion.

Style No. 47028—3"H tie safety shoe with removable dual-density open cell polyurethane insole.

Style No. 53534—Slip-on oxford is metal-free and includes removable contoured Ortho-Lite open cell polyurethane insole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
47028	Alloy	Yes	No	No	No	Better	Brown	E3927
53534	Alloy	Yes	No	No	No	Better	Camel Brown	H9587



No. H9203



No. H9442



No. H9208

FLORSHEIM WORK

Men's Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75 C/75

Men's oxford work shoes with full-grain leather upper, composite toe, moisture-wicking nylon mesh and Cambrelle® lining, removable F2A dual-density polyurethane cushion insert, polyurethane midsole, and plastic shank. TPU outsole is oil-resistant. Direct attach construction is lightweight, flexible, and durable.

Style No. 2400—100% nonmetallic construction will not activate security screening devices. Nonmetallic eyelets help reduce marking or scratching work surfaces.

Style Nos. 2416 and 2430—Flexible work shoes are 100% nonmetallic. Won't activate security screening devices. Eyelets help reduce marking or scratching work surfaces.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
FS2400	Composite	No	No	No	No	Best	Dark Brown	H9203
FS2400	Composite	No	No	No	No	Better	Dark Brown	H9203
FS2416	Composite	No	No	No	No	Best	Black	H9442
FS2430	Composite	No	No	No	No	Best	Copper	H9208



WOLVERINE

Men's Safety Work Boots

- Available in sizes 7 to 14
- Meet ASTM F2413-11 M I/75 C/75 EH

Comfortable 10"H Wellington work boots are easy to pull on. Full-grain leather uppers.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 10318—Waterproof boots with wave mesh lining and removable EPX™ ribbed, cushioned insole. Composite toe, polyurethane midsole, nylon shank, and slip-resistant rubber lug outsole. 100% nonmetallic. Direct attach construction.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
W10318	Composite	Yes	Yes	No	No	Best	Dark Brown	**H9083**



No. H9518



No. J5224



No. H9556

ARIAT

Men's Safety Work Boots

- Available in sizes 7 to 14
- Meet ASTM F2413-11 M/1/75 C/75 EH

Western-style work boots designed with durable Goodyear welt construction. Premium full-grain leather upper with removable Ariat ATS® insole with gel impact cushion pad, heel stabilizer, and 90° heel. Oil- and slip-resistant Duratread™ rubber outsole.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 10006961—Pull-on boot features square steel toe, EVA midsole, and TPU shank.

Style No. 10010134—Includes square steel toe and TPU shank.

Style No. 10017420—Waterproof leather with full membrane lining keeps feet dry. Composite toe with wide, square toe cap. Features EVA midsole, extra-wide plastic shank, and nonmetallic eyelets.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
10006961	Steel	Yes	No	No	No	Good	Brown	**H9518**
10010134	Steel	Yes	No	No	No	Best	Aged Bark	**H9556**
10017420	Composite	Yes	Yes	No	No	Good	Bruin Brown	**J5224**

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**


No. E4369


No. H9588


No. H9606


No. J5301

Women's Safety Work Shoes and Boots

Timberland PRO

- Available in sizes 5½ to 11

Mesh lining with antimicrobial treatment helps keep feet comfortable and controls odors. Lightweight, flexible cement construction.

Style Nos. 26388 and 63189 feature the roomy, lightweight TITAN® safety toe; a full-grain premium leather upper; and the rugged PRO series rubber outsole, which is slip-, abrasion, and oil-resistant.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 26388—6" hiker boots are designed for breathable comfort, drier feet, and temperature regulation, with contoured OrthoLite® PU insole, PU midsole, and contoured open-cell PU footbed with Outlast® Adaptive Comfort® technology. Nylon shank.

- Meets ASTM F2413-05 I/75 C/75 EH

Style No. 63189—Oxford's ergonomic design with PowerFit™ comfort system suppies movement and support for maximum all-day comfort. Nylon shank. The padded top collar and molded PU midsole help enhance comfort. Breathable, removable open-cell PU footbed help keep feet dry.

- Meets ASTM F2413-11 I/75 C/75 EH

Style No. 87528—Newbury ESD slip-on clog features shock-absorbing, antifatigue footbed for all-day comfort. Premium full-grain leather uppper with padded top collar. The larger toe cap provides more room for your toes to flex and bend. Fiberglass shank. Low-profile PU outsole is oil- and slip-resistant with high surface contact.

- Meets ASTM F2413-11 I/75 C/75 SD

Style No. A1H1S—3½"H Powertrain Sport athletic work shoes feature self-molding footbeds and proprietary antifatigue technology for low-profile comfort and protection. Nonmarking dual-density polyurethane (PU) outsole is slip-, oil-, abrasion-, and heat-resistant. Premium ripstop nylon uppers with TPU toe and heel overlay. Ghillie lacing. Conductive PU midsole and fiberglass shank.

- Meets ASTM F2413-11 I/75 C/75 EH

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
26388	Alloy	Yes	No	No	No	Better	Reddish Brown	**E4369**
63189	Alloy	Yes	No	No	No	Better	Super Retro Haystack	**H9588**
87528	Alloy	No	No	No	No	Best	Black	**H9606**
A1H1S	Alloy	No	No	No	No	Better	Black	**J5301**


No. J6134


No. H9295

Women's Safety Work Shoes

Reebok

- Available in sizes 6 to 12
- Meet ASTM F2413-11 I/75 C/75

Removable EVA cushion insert with sponge rubber heel wedge adds extra cushioning and impact protection. Nonmetallic eyelets won't mark or scratch work surfaces, except for No. J6134. Cement construction improves flexibility.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. RB041—MemoryTech massage footbed adapts to the contours of your foot and provides instant cushioning for more comfortable wear. The mesh uppers allow for enhanced breathability and moisture transfer for all day comfort. EVA cushion midsole.

Style No. RB195—Leelap retro oxford joggers have suede leather uppers and brushed nylon lining. EVA midsole and rubber outsole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
RB041	Alloy	Yes	No	No	No	Best	Black	**J6134**
RB195	Steel	Yes	No	No	No	Best	Navy Blue	**H9295**


No. H8765


No. H8786

Men's and Women's 6" Safety Work Boots

WOLVERINE

- Available in sizes 5 to 9; additional sizes also available on Grainger.com®

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 4451—Metatarsal-guarding men's boot has full-grain leather upper and moisture-managing mesh lining. Removable full-cushion insole. Durable, slip-resistant rubber/polyurethane (PU) lug outsole. Lightweight nylon shank. Goodyear welt construction.

- Meets ASTM F2413-11 M I/75 C/75 Mt/75 EH

Style No. 10181—Women's boot features waterproof leather upper, moisture-managing mesh lining with waterproof membrane, and grippy rubber outsole. Removable open-cell PU cushion footbed, EVA midsole, and nylon shank. Cement construction. Nonmetallic hardware helps prevent surface scratches.

- Meets ASTM F2413-11 M I/75 C/75 EH

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
W04451	Steel	Yes	No	No	No	Best	Brown	**H8765**
W10181	Composite	Yes	Yes	No	No	Best	Black	**H8786**



No. J5322

SKECHERS MADE TO LAST FOR WORK

Men's and Women's 3" Safety Work Shoes

- Men's in sizes 7 to 16; Women's in sizes 5 to 11

Feature the Relaxed Fit® design for a roomy and comfortable fit.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear



No. J5319

Style No. 76576—Comfortable sneaker with slip-resistant rubber traction outsole has a foam-topped, cushioned, removable insole. Strobel/cement construction with mesh-lined all-leather upper, EVA midsole, and TPU shank.
- Meets ASTM F2413-05

Style No. 77040—Sneaker has a smooth leather and mesh fabric upper with stitching and overlay accents. The slip-resistant rubber traction outsole is good on wet and oily surfaces. Mesh panels on the sides, heel, and tongue help keep feet cool. With a cushioned removable comfort insole plus padded collar and tongue, soft fabric lining, and shock-absorbing, lightweight flexible midsole.
- Meets ASTM F2413-05



No. J5318

Style No. 77046—Slip-on dress casual has an oil-resistant rubber outsole to help prevent slips. Designed for all-day comfort, with foam insole, rounded plain toe, padded collar, supportive shock-absorbing midsole, and soft fabric lining. Dual side stretch fabric panels ease slip-on fit. Smooth leather upper with stitching accents.
- Meets ASTM F1677 Mark II

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
76576	Plain	Yes	No	No	No	Good	Black	**J5318**
77040	Plain	Yes	No	No	No	Good	Black	**J5319**
77046	Plain	Yes	No	No	No	Good	Black	**J5322**



No. K2672

SkidBuster SLIP RESISTANT FOOTWEAR

Men's and Women's 4" Safety Work Shoes

- Men's in sizes 7 to 12, 13, 14; Women's in sizes 5 to 10, 11, 12
- Meet ASTM F2413-11

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No. 4700—Slip-resistant slip-on features cushioned heel and ball of foot, removable contoured cushion insole, and perspiration-absorbing lining. Strobel construction with water-resistant leather upper.

Style No. 465075—Athletic shoes have a water-resistant leather upper and oil-resistant cup outsole designed to provide maximum slip resistance in wet environments. Comfortable style features a moisture-wicking lining, removable contoured cushion insole, and concealed cushions for your heel and the ball of your foot.



No. K2671

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
4700	Plain	No	No	No	No	Best	Black	**K2672**
465075	Plain	No	No	No	No	Best	Black	**K2671**

Anti-Fatigue Insoles

Anti-fatigue insoles help eliminate foot, leg, and back pain caused by standing or walking for long periods of time.





Prevents	Toe Shape	Color	Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Round	Yellow/Black	Unisex	Megacomfort	J7628
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Square	Yellow/Black	Unisex	Megacomfort	K2190
Back Pain, Fatigue, Foot Pain, Joint Pain, Knee Pain, Leg Pain	Round	Yellow/Black	Unisex	Impacto	H7256

Puncture-Resistant Insoles

Puncture-resistant insoles have an integrated steel plate that prevents sharp debris from puncturing the foot. They are used in footwear where workers encounter sharp objects such as nails and glass; and where workers can't see their footing, such as when walking in murky water.



Prevents	Color	Gender	Brand	Item No.
Injuries From Sharp Objects - Shards of Glass/ Metal/Nails, Fungus, Foot Odor, Sweating	Yellow/Black	Unisex	Megacomfort	J5281
Fatigue, Foot Pain, Leg Pain, Lower Back Pain, Punctures	Red/Black	Unisex	Impacto	D0472

Static-Dissipative Insoles

Static-dissipative insoles prevent static buildup and electrical discharge. They can be used in place of specialized static-dissipative footwear, allowing workers to wear their own shoes and boots. They are used in electronics manufacturing or other settings where static discharge can damage sensitive equipment.



Prevents	Color	Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Static Electricity, Sweating	Yellow/Black	Unisex	Megacomfort	H9267
Fatigue	Yellow/Black	Unisex	Impacto	H7257

Orthotic Insoles

Orthotic insoles have arch support to help reduce foot and heel pain.



Prevents	▶CHOOSE: Color	▶CHOOSE: Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Plantar Fasciitis, Sweating	Yellow/Green/Black	Unisex	Megacomfort	H9266
Arch Pain	Green	Men's	Spenco	G2299
Shock	Blue/Black	Unisex	Spenco	J5461
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Orange/Blue	Unisex	Impacto	H4769
Fatigue, Pain	Black/Green, Orange/Black	Women's, Men's	Sof Sole	J2907
Heel Pressure and Pronation	Black/Blue, Black/Gray/Blue/Red	Women's, Unisex	Spenco	E6621

Diabetic Insoles

Diabetic insoles are soft and conform to the foot to help prevent rubbing and foot sores.



Prevents	Color	▶CHOOSE: Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Yellow/Beige/Blue	Unisex	Megacomfort	K2189
Fatigue, Foot Odor	Tan/Blue	Unisex	Spenco	J6072

Heated Insoles

Heated insoles have a crevice under the toe that holds a replaceable warming insert. Perforations allow the heat to move through the insole and warm the toes and foot.



Prevents	Color	▶CHOOSE: Gender	Brand	Item No.
Cold Feet	Gray	Men's, Women's	Heat Factory	G3069

Flat Insoles

Flat insoles are used by people with flat arches who might find other insoles uncomfortable.







Prevents	Color	▶CHOOSE: Gender	Brand	Item No.
Back Pain, Fatigue, Foot Pain, Knee Pain	Yellow/Blue	Unisex	Impacto	H4766
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Green/Gray	Men's, Women's	Impacto	J2904
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Green	Unisex	Impacto Airsol	D0471
Shock Absorption	Black	Men's	Honeywell Servus	E2224

Molded Insoles

Molded insoles help cushion the foot for comfort and support. **Heel cups** support and cushion the heel.











Prevents	▶CHOOSE: Color	▶CHOOSE: Gender	Brand	Item No.
Insole				
Blisters, Foot Odor	Green/Yellow/Gray	Unisex	Spenco	E6620
Bunching, Foot Pain, Leg Pain, Lower Back Pain	Blue	Unisex	Impacto	G3223
Fatigue	Yellow/Red	Men's	Solcomfort	45KP40
Fatigue	Black/Gray	Men's	Honeywell Servus	F2686
Fatigue, Foot Odor	Blue/Gray/Red	Men's	Spenco	E6622
Fatigue, Foot Odor	Orange/Black	Unisex	Timberland Pro	J1440
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Gray/Blue	Unisex	Impacto	G2615
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Orange/Blue	Unisex	Impacto	H4768
Fatigue, Foot Odor, Heat Buildup	Green	Unisex	Impacto Airsol	D0469
Fatigue, Pain	Black/Green, Orange/Black	Women's, Men's	Sof Sole	J2907
Foot Odor	Green	Men's	Wolverine	J2840
Heel Cup				
Heel Discomfort, Heel Pain, Heel Strike	White/Blue	Unisex	Impacto	G8761
Pressure Reduction, Slipping	Blue	Unisex	Impacto	G2614



FRUIT OF THE LOOM · 5.11 TACTICAL SERIES · carhartt · GA GRAINGER APPROVED

Socks & Liners

Socks and boot liners provide a barrier between the foot and the boot or shoe to keep feet warm and prevent sores caused by rubbing. **Slip-resistant socks** are worn without shoes and have an anti-slip surface to help maintain good footing on slippery surfaces. **Thermal socks** are worn in cold weather conditions to provide more insulation than general use socks. **Thermal boot liners** fit inside cold-condition boots and can be replaced when worn out.

Color	Material	▶CHOOSE: Gender	Brand	Pkg. Qty.	Item No.
General Purpose Work Socks					
Black	Cotton	Men's	Fruit Of The Loom	6	**34VH12**
White	Cotton	Men's	Fruit Of The Loom	6	**34VH16**
Beige	Cotton	Unisex	5.11 Tactical	1	**H5551**
Black	Cotton	Unisex	5.11 Tactical	3	**G0489**
Beige	Cotton	Women's	Carhartt	1	**G1973**
Black, Gray, White	Cotton	Men's	Carhartt	3	**D5782**
Charcoal Heather	Acrylic	Women's	Carhartt	1	**D5784**
Slip-Resistant Socks					
Yellow, Red, Green, Blue, Beige, Gray	Terrycloth	Unisex	GA	48	**D9275**
Teal	Terrycloth	Unisex	GA	96	**D9275**
Blue	Polyester	Unisex	Hcs	48	**35XD96**
Thermal Boot Liners					
Black	Foam, Wool	Men's	GA	1	**E8927**
White	Wool	Women's	GA	1	**E7854**
White	Wool	Men's	GA	1	**E7853**
Thermal Socks					
Black	Wool	Unisex	5.11 Tactical	1	**52KE53**
Beige	Acrylic	Women's	Carhartt	1	**D5784**
Brown, Moss, Gray	Wool	Men's	Carhartt	1	**D7687**
Brown, Heather Black, Navy	Acrylic	Men's	Carhartt	1	**D5783**
Black	Acrylic	Unisex	Heat Holders	1	**26KF17**



GA GRAINGER APPROVED · TRAX® FLOOR MATTING

Boot Brushes & Replacement Boot Brush Parts

Boot brushes clean the sides and sole of the footwear to prevent mud and muck from being tracked into buildings. They are installed on the ground outside building entrances.

Includes	Overall Dim.	Brand	Item No.
Boot Brush			
Mounting Screws	8 13/16 in L x 6 in W x 4½ in H	GA	**1ETK7**
Frame	9 in L x 6 in W x 5 in H	GA	**8DAX6**
Frame	9 in L x 9 in W x 9 in H	GA	**8CVD2**
Mounting Screws	9½ in L x 9½ in W x 7¼ in H	Implus Footcare	**471F33**
Base, Mounting Hardware	15 in L x 12 in W x 2 in H	Notrax	**52ZX91**
Frame	16½ in L x 14¾ in W x 7 in H	GA	**9RZ71**
Boot Brush Base			
—	20 in L x 18 in W x 1 in H	GA	**8DEL3**
—	22 in L x 6 in W x 1 in H	GA	**9R680**
Replacement Brush			
—	10 in L x 5 in W x 3½ in H	GA	**8X795**
Replacement Brush Set			
2 Side Brushes, 3 Bottom Brushes, 6 Mounting Screws	3 in L x 6 in W x 3 in H, 5 in L x 1½ in W x 2 in H	GA	**9AJL5**
2 Side Brushes, 2 Bottom Brushes, 4 Mounting Screws	3 in L x 6 in W x 3 in H, 5 in L x 1½ in W x 2 in H	GA	**8DCJ9**

Heated Boot Dryers & Attachment Accessories

PEET DRYER · MAXX DRY

- 120V

Heated boot dryers circulate heated air through boots, shoes, and other equipment to speed drying and ensure they are thoroughly dried inside.

Overall Dim.	Color	Wattage	Brand	Item No.
Boot Dryer				
10½" L x 9" W x 2" H	Black	36W	Peet Dryer	**3MYT4**
8½" L x 13½" W x 18½" H	Black	220W	Peet Dryer	**3PJA7**
9" L x 10" W x 21" H	Gray	30W	Maxxdry	**45DV51**
9" L x 9" W x 10¾" H	Gray	240W	Implus Footcare	**471F32**
6" L x 2" W x 7" H	Black	12W	Peet Dryer	**8P425**
Attachments				
Tall Boot Attachment			Peet Dryer	**3MYT5**
Glove Attachment			Peet Dryer	**3MYG5**
Helmet Dryer			Peet Dryer	**24MD96**



YAKTRAX · Kg's Boot Guard®

Footwear Surface Cleaners, Protectants & Deodorizers



Footwear surface cleaners and protectants are applied to the outside of shoes and boots to protect against wear and tear and keep footwear clean. **Footwear deodorizing sprays** and leave-in deodorants remove odors from shoes and boots.

Item	For Use With	Includes	Size	▶CHOOSE: Color	Brand	Item No.
Footwear Surface Cleaners & Protectants						
Water Proofer	Boots, Tents	Spray Nozzle	12 oz	—	Sof Sole	**39GC01**
Boot Guard	New or Used Leather, Rubber, Bordura, Vinyl and Steel Boots	Disposable Applicator, Sandpaper	2 oz	Black	Kg'S Boot Guard	**39FY79**
Boot Guard		Disposable Applicator, Sandpaper	2 oz	Brown	Kg'S Boot Guard	**39FY80**
Boot Guard		—	4.5 oz	Brown, Black	Kg'S Boot Guard	**D0365**
Boot Guard	Work Boots	Applicator and Glue	Universal	Black, Brown	Yaktrax	**J4734**
Footwear Deodorizers						
Deodorizing Leave-In Balls	Athletic Shoes, Gear Bags, Gym Bags, Lockers	—	6 Pack	Black/Blue, Black/Red, Black/White	Implus Footcare	**471F35**
Deodorizing Spray		Spray Nozzle	3 oz	—	Sof Sole	**39GC05**

Respiratory Filter and Gas/Chemical Cartridge Abbreviations

PARTICULATE FILTER TYPES

NIOSH-approved filters are rated as N95, R95, P95, N99, N100, or P100. The number 95, 99, or 100 indicates the filter efficiency percentage rate.

N Series—Used in environments free of oil aerosols.

R Series—Resistant to oil mist. Use is restricted to one 8-hr. work shift.

P Series—Oil-proof with time use restrictions specified by manufacturer.

GAS AND CHEMICAL CARTRIDGE ABBREVIATIONS

AG—Acid Gas
AM—Ammonia
CD—Chlorine Dioxide
CL—Chlorine
FM—Formaldehyde
HC—Hydrogen Chloride
HF—Hydrogen Fluoride
HS—Hydrogen Sulfide
MA—Methylamine
MV—Mercury Vapor
OZ—Ozone
OV—Organic Vapor
SD—Sulfur Dioxide



GA GRAINGER APPROVED

Dust Mask Dispenser

Keep masks clean. Hinged flip top lid. Countertop or wall-mountable; hardware not included.

Dim.	Item No.
12⅜"H x6"W x6"D	**23Z425**



No. 2KFY4



No. 4KMY1

Nuisance Dust and Procedural Masks

- Not NIOSH approved
- Universal size

Designed to protect against nontoxic dust and irritants, these masks have elastic headstraps and a nose clip to hold them in place. Not for use with toxic mists and chemicals. Nos. 54TX79 and 54TX80 have a pouch-style design to ease breathing.

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Nuisance Dust Masks	Condor	—	**2KFY4**	50
	Honeywell North	14110094G	**4VT68**	50
Procedural Masks	Condor	—	**4KMY1**	50
	Kimtech Pure	62484	**54TX79**	300
	Kimtech Pure	62465	**54TX80**	500



No. 22EL79



No. 22EL78



No. 22EL80



No. 22EL81



No. 22EL77

N95 Disposable Particulate Respirators

- NIOSH approved
- Universal size

Economical, lightweight respirators are available with adjustable aluminum nose clip. Select models have an integrated nosefoam seal that conforms to the face. No. 22EL81 is FDA 510(k) approved for use in medical applications and meets CDC guidelines for TB exposure control.

Respirator Shape	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
Molded	None	No	No	No	None	White	22EL79	**22EL79**	20
Molded	None	No	No	Yes	None	White	22EL78	**22EL78**	20
Molded	None	Yes	No	No	None	White	22EL80	**22EL80**	10
Molded	None	No	No	Yes	Closed Cell Compliant	White	22EL81	**22EL81**	20
Flat-Fold	None	Yes	No	Yes	Closed Cell Compliant	White	22EL77	**22EL77**	10



No. 2EMU3



No. 4VT70



No. 4VT73



No. 1AAK5



No. 16M227



No. 4RM12

Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Mask Headstrap Type	Color	Mfr. Model	Item No.	Pkg. Qty.
ONE-Fit™												
N95	Molded	Universal	None	Yes	No	No	None	Dual, Non-Adjustable	White	14110444	**2EMU2**	20
N95	Molded	Universal	None	Yes	No	No	None	Dual, Non-Adjustable	White	14110445	**2EMU3**	10
SAF-T-FIT® Plus												
N95	Molded	S	None	No	No	Yes	None	Dual, Adjustable	White	14110387	**4VT69**	20
N95	Molded	M/L	None	No	No	Yes	None	Dual, Adjustable	White	14110388	**4VT70**	20
N95	Molded	XL	None	No	No	Yes	None	Dual, Adjustable	White	14110389	**4VT71**	20
N95	Molded	S	None	No	No	Yes	Full	Dual, Adjustable	White	14110390	**4VT72**	20
N95	Molded	M/L	None	No	No	Yes	Full	Dual, Adjustable	White	14110391	**4VT73**	20
N95	Molded	XL	None	No	No	Yes	Full	Dual, Adjustable	White	14110392	**4VT74**	20
N95	Molded	S	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110393	**4VT75**	20
N95	Molded	M/L	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110394	**4VT76**	20
N95	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110395	**4VT77**	20
N95	Molded	M/L	OV	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110397	**4VT79**	10
N95	Molded	XL	OV	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110398	**4VT80**	10
N95	Molded	S	AG	Yes	No	Yes	None	Dual, Adjustable	Gray	14110399	**3NME5**	10
N95	Molded	M/L	AG	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110400	**4VT85**	10
N95	Molded	XL	AG	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110401	**4VT86**	10
N99	Molded	S	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110402	**4VT81**	10
N99	Molded	M/L	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110403	**4VT82**	10
N99	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110404	**4VT83**	10
P95	Molded	M/L	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110428	**4VT87**	10
P95	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110429	**4VT88**	10
P100	Molded	S	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110439	**1AAK4**	1
P100	Molded	M/L	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110440	**1AAK5**	1
P100	Molded	XL	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110441	**1AAK6**	1
Foldable												
N95	Flat-Fold	Universal	None	No	Yes	Yes	None	Single, Non-Adjustable	White	7230N95	**16M226**	20
N95	Flat-Fold	Universal	None	Yes	Yes	Yes	None	Single, Non-Adjustable	White	7240N95	**16M227**	10
Limited-Use Welding Respirator with Disposable Filter												
N99	Molded	Universal	None	Yes	Yes	Yes	Partial	Dual, Adjustable	White/Clear	7190N99	**4RM12**	1
Welding Respirator Replacement Filter												
—	—	—	—	—	—	—	—			719009N99	**4RM11**	2

Honeywell NORTH

Disposable Particulate Respirators

- NIOSH approved

ONE-Fit™—Molded cup contours to fit most faces.

SAF-T-FIT® Plus—Molded cup design offers low breathing resistance. Convenient suspension straps. Latex-free.

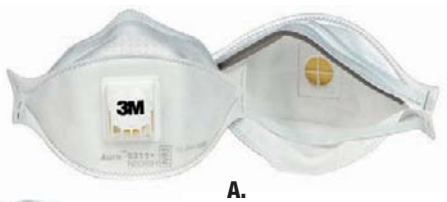
Foldable—Flat-fold and Individually wrapped, easy-to-carry filtering facepieces can be with you all the time. Built-in nose clip offers a secure, comfortable fit. Latex-free.

Limited-Use Welding Respirator with Disposable Filter—Low-profile half-mask design fits under welding helmets and faceshields. A proprietary coaxial valve system channels air to the wearer for easy breathing and maximum filtration use.

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.



A.
No. 3KP43



A.
No. 21LP03



A.
No. 4JF99



B.
No. 4MH50



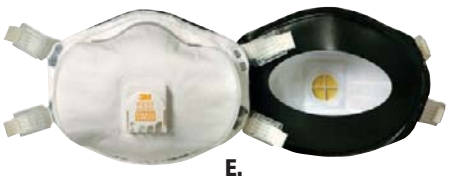
C.
No. 4MH67



C.
No. 4MH63



D.
No. 4MH59



E.
No. 4JG03

3M

Disposable Particulate Respirators

- NIOSH approved

Electrostatically charged microfibers are designed for ease of breathing. R and P series respirators may have additional time-use limitations. Refer to instructions for specific information.

A. GENERAL INDUSTRIAL

Provide protection against certain non-oil-based (N series respirators) or oil-based (R and P series respirators) particles.

B. HEALTHCARE/SURGICAL

- Meet CDC guidelines for tuberculosis exposure control
- FDA cleared for use as surgical masks

Reduce exposure to airborne particles generated by electrocautery, laser surgery, and other powered medical instruments. Also reduce the potential exposure of the wearer to blood and other body fluids. No. 49U069 fold-flat mask has a 3-panel design to help reduce eyewear fogging. Chin tab provides easy adjustment and positioning.

C. WELDING

Feature adjustable straps (except No. 4MH67), Cool Flow™ exhalation valve, and cake-resistant filter material (except No. 4MH67) for comfort and durability.

OV/OZ—Feature a carbon layer that helps provide respiratory protection where metal fumes may be present including those with ozone and nuisance level organic vapors.

D. ODOR-REMOVING

AG—Suggested for protection against particles where nuisance-level (levels beneath OSHA PEL) acid gases may also be present such as primary aluminum smelting, chemical processing, glass etching, and paper processing.

OV—Use in foundries, undercoating, petroleum operations, and agriculture where exposures may include nuisance-level (levels beneath OSHA PEL) concentrations of organic vapors.

E. 100 LEVEL

Use where certain OSHA substance-specific regulations require 100 level respirator for particle exposures to lead, cadmium, arsenic, or methylenedianiline (MDA). Excludes asbestos.

Key	Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
General Industrial												
A	N95	Molded	Universal	None	No	No	Yes	None	White	8200	**2KJJ5**	20
A	N95	Molded	Universal	None	No	No	Yes	None	White	8210	**3KP43**	20
A	N95	Molded	Universal	None	Yes	No	Yes	None	White	8210V	**14F203**	10
A	N95	Molded	Universal	None	No	No	Yes	None	White	8210PLUS	**1AGD3**	20
A	N95	Molded	S	None	No	Yes	Yes	None	White	8110S	**4MH52**	20
A	N95	Flat-Fold	Universal	None	No	Yes	Yes	None	White	9210+	**21LP02**	20
A	N95	Flat-Fold	Universal	None	Yes	Yes	Yes	None	White	9211+	**21LP03**	10
A	N95	Flat-Fold	Universal	None	No	No	Yes	None	White	9105	**6KXU0**	50
A	N95	Flat-Fold	S	None	No	No	Yes	None	White	9105S	**6KXU1**	50
A	N95	Molded	Universal	None	Yes	No	Yes	None	White	8511	**4JF99**	10
A	N95	Molded	Universal	None	Yes	No	Yes	Full	White	8211	**3FU83**	10
A	R95	Molded	Universal	None	No	No	Yes	None	White	8240	**4MH64**	20
A	P95	Molded	Universal	None	Yes	No	Yes	Full	White	8271	**4JG30**	10
Healthcare and Surgical												
B	N95	Flat-Fold	S	None	No	No	Yes	None	White	1805S	**49U068**	50
B	N95	Molded	Universal	None	No	No	Yes	None	Green	1860	**4MH50**	20
B	N95	Molded	S	None	No	No	Yes	None	Green	1860S	**4MH51**	20
B	N95	Flat-Fold	Universal	None	No	Yes	Yes	None	White	1870+	**49U069**	20
Welding												
C	N95	Molded	Universal	None	Yes	No	Yes	None	White	8515	**4MH67**	10
C	N95	Molded	Universal	None	Yes	No	Yes	Full	White	8212	**4JG36**	10
C	N95	Molded	Universal	None	Yes	No	Yes	None	White	8512	**4MH65**	10
C	N95	Molded	Universal	OV/OZ	Yes	No	Yes	Full	White	8214	**4MH63**	10
C	N95	Molded	Universal	OV/OZ	Yes	No	Yes	None	White	8514	**4MH66**	10
Odor-Removing												
D	N95	Molded	Universal	AG	Yes	No	Yes	None	White	8516	**3NMJ7**	10
D	R95	Molded	Universal	AG	No	Yes	Yes	None	Blue	8246	**4JG01**	20
D	P95	Molded	Universal	AG	Yes	No	Yes	None	White	8576	**4MH58**	10
D	R95	Molded	Universal	OV	No	No	Yes	None	Gray	8247	**4JG02**	20
D	P95	Molded	Universal	OV	Yes	No	Yes	None	White	8577	**4MH59**	10
100 Level												
E	N100	Molded	Universal	None	Yes	Yes	Yes	Full	White	8233	**4JG03**	1
E	P100	Molded	Universal	None	Yes	Yes	Yes	Full	White	8293	**4MH54**	1

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.



A.
No. 1DLL8



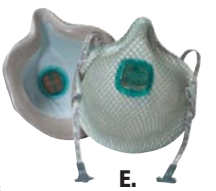
B.
No. 3NML1



C.
No. 16V847



D.
No. 20JJ53



E.
No. 3CDE4



F.
No. 6DMW9

MOLDEX
Ideas that wear well.

Disposable Particulate Respirators

- NIOSH approved

Dura-Mesh® shell resists collapse, even under hot and humid conditions. Contour-molded nosebridge has a foam cushion for an easy soft, comfortable seal without a metal nose band.

A. Standard 2-Strap—Elastic straps are attached securely so they don't break the seal.

Nos. 1DLL7, 1DLN1, and 1DLP3 feature a low-profile design with a lower, wider nosebridge. No. 6DMW8 FastFit® offers flat-fold convenience with cup-shape comfort. Individually packaged for hygiene in a dispenser box.

B. Adjustable Cloth Straps—Tug-to-fit adjustable cloth straps provide speedy, comfortable fit. No. 3NML1 has a low-profile design to fit easily under welding hoods.

C. and D. AirWave®—FlexFit® design expands and contracts as you move and speak for all-day comfort. Wave design lets more air flow in and out for easier breathing. SmartStrap® models with adjustable soft cloth strap allows the respirator to hang loosely from the neck when not in use.

E. HandyStrap®—Cloth strap with buckle allows mask to hang around the wearer's neck, always ready for use.

F. Healthcare and Surgical Masks—Meet CDC guidelines for tuberculosis protection. 2 latex-free straps—on the 1500 series they are color-coded by size.

No. 6DMW9 FastFit® opens quickly and seals easily, and handily refolds to store in a scrubs pocket. Hygienic individual packaging in a quick-access dispenser box.

Key	Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
Standard 2-Strap												
A	N95	Molded	S	None	No	No	No	None	White	2201N95	**1DLL6**	20
A	N95	Molded	M/L	None	No	No	No	None	White	2200N95	**1DLL5**	20
A	N95	Molded	S	None	Yes	No	No	None	Blue	2301N95	**1DLL9**	10
A	N95	Molded	M/L	None	Yes	No	No	None	Blue	2300N95	**1DLL8**	10
A	N95	Molded	M/L	OV/OZ	Yes	No	No	None	Gray	2400N95	**1DLN2**	10
A	N95	Molded	M/L	AG	Yes	No	No	None	Blue	2500N95	**1DLN3**	10
A	N95	Flat-Fold	M/L	None	No	No	No	None	White	2112	**6DMW8**	20
Standard 2-Strap—Low-Profile												
A	N95	Molded	S	None	No	No	No	None	White	2207N95	**1DLL7**	20
A	N95	Molded	S	None	Yes	No	No	None	Blue	2307N95	**1DLN1**	10
A	N99	Molded	M/L	None	Yes	No	No	None	Gray	2310	**1DLP3**	10
Adjustable Cloth Straps												
B	N99	Molded	M/L	None	Yes	No	No	None	Gray	2315	**3NML1**	10
B	P100	Molded	M/L	None	Yes	No	No	Full	White	2360P100	**3CDE3**	5
B	P100	Molded	M/L	None	Yes	No	No	Full	White	2360AP100	**6KXU6**	1
AirWave® Classic 2-Strap												
C	N95	Molded	S	None	No	No	No	None	White	4201	**16V848**	10
C	N95	Molded	M/L	None	No	No	No	None	White	4200	**16V847**	10
AirWave® with SmartStrap®												
D	N95	Molded	S	None	No	No	No	None	Gray	4601	**40M365**	10
D	N95	Molded	M/L	None	No	No	No	None	Gray	4600	**40M364**	10
D	N95	Molded	M/L	OV/OZ	No	No	No	Full	Gray	4800	**20JJ53**	8
D	P95	Molded	M/L	None	No	No	No	Full	White	4300P95	**35ZC16**	8
D	N100	Molded	M/L	None	Yes	No	No	Full	White	4700N100	**35ZC17**	5
HandyStrap®												
E	N95	Molded	S	None	Yes	No	No	None	White	2701N95	**1DLN5**	10
E	N95	Molded	M/L	None	Yes	No	No	None	White	2700N95	**1DLN4**	10
E	N95	Molded	M/L	None	Yes	No	No	None	Black	M2700N95	**3CDE6**	10
E	N95	Molded	M/L	OV/OZ	Yes	No	No	None	White	2800N95	**3NML2**	10
E	N95	Molded	S	OV/OZ	Yes	No	No	None	Black	M2801N95	**1DLN7**	10
E	N95	Molded	M/L	OV/OZ	Yes	No	No	None	Black	M2800N95	**1DLN6**	10
E	N100	Molded	S	None	Yes	No	No	Full	White	2731N100	**3CDE5**	5
E	N100	Molded	M/L	None	Yes	No	No	Full	White	2730N100	**3CDE4**	5
Healthcare and Surgical												
F	N95	Molded	XS	None	No	No	No	None	Blue	1510	**3NMF7**	20
F	N95	Molded	S	None	No	No	No	None	Blue	1511	**3NMF6**	20
F	N95	Molded	M	None	No	No	No	None	Blue	1512	**3NMF5**	20
F	N95	Molded	L	None	No	No	No	None	Blue	1513	**3NMF4**	20
F	N95	Molded	S	None	No	No	No	None	Blue	1517	**3WXZ4**	20
F	N95	Flat-Fold	M/L	None	No	No	No	None	Blue	1712	**6DMW9**	20



7000 Series



7800 Series



9000 Series

Half- and Full-Facepiece Respirators

MOLDEX
Ideas that wear well.

User-friendly reusable respirators are designed for comfort and convenience, with a wide field of vision and fewer parts for simplified maintenance. Filters and cartridges are sold separately.

7000 and 7800 Series Half-Facepiece—Lightweight respirators with extra-wide sealing flange and compact design fits well under welding helmets and with safety glasses. The premium 7800 Series offers higher heat and compression resistance with enhanced comfort and durability.

9000 Series Full-Facepiece—Streamlined, ultra-lightweight respirators feature a ratchet fastening strap system and standaway head harness for easy, quick removal. The frameless mask has an extra-wide lens for extended field of view.

9000 Series Full-Facepiece Accessories—Spectacle Kit lets you use prescription lenses (not included) with the respirator. Lens Covers help protect lenses from scratching and overspray.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
7000 Series Half-Facepiece				
Thermoplastic Elastomer	S	Yolk and Cradle	7001	**D6326**
	M	Yolk and Cradle	7002	**D6326**
	L	Yolk and Cradle	7003	**D6326**
7800 Series Half-Facepiece				
Silicone	S	Single Strap with Cradle	7801	**52ZV52**
	M	Single Strap with Cradle	7802	**52ZV53**
	L	Single Strap with Cradle	7803	**52ZV54**
9000 Series Full-Facepiece				
Thermoplastic Elastomer	S		9001	**D6325**
	M		9002	**D6325**
	L		9003	**D6325**

Description	Mfr. Model	Item No.
9000 Series Full-Facepiece Accessories		
Spectacle Kit	0098	**6DMU8**
Lens Covers, Okg. of 15	0093	**6DMU5**

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Preassembled Combination Stacked Cartridge and Particulate Filters				
OV, P100	Magenta	7140	**25UK46**	2
AM, CL, FM, HC, HF, HS, MA, OV, P100, SD	Olive/Magenta	7640	**16V849**	2
Chemical Cartridges				
OV	Black	7100	**6DMV1**	2
CD, CL, HC, HF, HS, SD	White	7200	**6DMV2**	2
CD, CL, HC, HF, HS, OV, SD	Yellow	7300	**6DMV3**	2
AM, MA	Green	7400	**6DMV4**	2
FM	Olive	7500	**6DMV5**	2
AM, CL, CD, FM, HC, HF, HS, MA, OV, SD	Olive	7600	**6DMV6**	2
Particulate Cartridge				
P100	Magenta	7990	**6DMW0**	2
Particulate Filter Discs				
P100	Magenta	7940	**6DMV8**	2
AG, OV, P100	Magenta	7960	**6DMV9**	2
AG, OV, P100	Magenta	7950	**35ZC18**	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Prefilters and Retainers			
N95 Prefilter	8910	**3TYW5**	10
R95 Prefilter	8970	**6DMW1**	10
Prefilter Retainer	7020	**6DMV0**	2
Filter Disc Adapter			
P100 Filter Disk Piggyback Adapter	7920	**6DMV7**	2
Filter Disc Covers			
Splash and Spark Protectors	7999	**35ZC19**	2

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.

Half- and Full-Facepiece Respirators

3M

- NIOSH approved

Cartridges and filters sold separately. Fit test kits sold separately, see page 1775.

6000 SERIES

Soft, lightweight facepiece with easily adjustable head strap offers increased comfort. Full-facepiece models feature a large lens that provides a wide field of view.

6500 SERIES

Adjustable head harnesses provide excellent fit and comfort over long shifts. The Cool Flow™ valve helps reduce heat and moisture, for better comfort and easier breathing. With a light, comfortable silicone face seal. Models with Quick Latch mechanism permit easy on and off; no need to remove your hard hat or faceshield as you move in and out of contaminated areas.

FF-400 SERIES

Feature a soft silicone nose cup and large lens that allow for superior peripheral vision. Unique 3M™ Scotchgard™ protector helps the lens resist dirt, paint, and stains and makes it easier to clean. 3M™ Cool Flow™ exhalation valve reduces heat and moisture buildup inside the facepiece.

7000 SERIES

Soft, pliable facepiece and adjustable head strap for maximum comfort. Half-facepiece respirators are easily adjustable and feature Cool Flow™ exhalation valve. Full-facepiece respirators feature standard nose cup to prevent fogging, double-flap face seal, and an antiscratch polycarbonate lens for greater durability.

AIR REGULATOR ASSEMBLY

Use with 6000, FF-400, and 7000 series facepieces and supplied air hose to have respirators in supplied air mode. Kit includes waist belt, air control valve, and breathing tube.

ACCESSORIES FOR FULL-FACEPIECE RESPIRATORS

Spectacle Kits—Allow prescription eyewear to be worn with respirator.

Lens Covers—Protect lenses from soil or damage.


6000 Series Half-Facepiece


6000 Series Full-Facepiece


6500 Series Half-Facepiece


FF-400 Series Full-Facepiece


7000 Series Half-Facepiece


7000 Series Full-Facepiece

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
6000 Series				
Half-Facepiece				
Thermoplastic Elastomer	S	Yolk and Cradle	6100	**F8766**
	M	Yolk and Cradle	6200	**F8766**
	L	Yolk and Cradle	6300	**F8766**
Full-Facepiece				
Silicone/Thermoplastic Elastomer	S		6700	**4JG17**
	M		6800	**4JG18**
	L		6900	**4JG19**
6500 Series				
Half-Facepiece				
Silicone	S	Yolk and Cradle	6501	**29WT65**
	M	Yolk and Cradle	6502	**29WT66**
	L	Yolk and Cradle	6503	**29WT67**
Half-Facepiece with Quick-Latch Drop Down				
Silicone	S	Yolk and Cradle	6501QL	**29WT68**
	M	Yolk and Cradle	6502QL	**29WT69**
	L	Yolk and Cradle	6503QL	**29WT70**
FF-400				
Full-Facepiece				
Silicone	S		FF-401	**G8865**
	M		FF-402	**G8865**
	L		FF-403	**G8865**
7000 Series				
Half-Facepiece				
Silicone	S	Yolk and Cradle	7501	**F9175**
	M	Yolk and Cradle	7502	**F9175**
	L	Yolk and Cradle	7503	**F9175**
Full-Facepiece				
Silicone	S		7800S-S	**F8386**
	M		7800S-M	**F8386**
	L		7800S-L	**F8386**

Description	Mfr. Model	Item No.	Pkg. Qty.
Air Regulator Assembly			
Dual Airline Back-Mounted Adapter Kit	SA-2000	**3WYF8**	1
Accessories For Full-Facepiece Respirators			
Spectacle Kit for 6000 Series	6878	**4JG35**	1
Spectacle Kit for FF-400 Series	FF-400-20	**5WYZ9**	1
Spectacle Kit for 7000 Series	7925	**5AZ96**	1
Lens Covers for 6000 Series	6885	**4JG07**	100
Lens Covers for FF-400 Series	FF-400-15	**5WYZ7**	25
Semipermanent Lens Covers for FF-400 Series	FF-400-17	**5WYZ8**	5
Lens Covers for 7000 Series	7899-100	**1AGE7**	100

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Chemical Cartridges				
OV	Black	6001	**6AM37**	2
AG, OV	Yellow	6003	**4AD98**	2
FM, OV	Olive/Black	6005	**5AJ48**	2
OV, P100	Black/Magenta	60921	**4JG10**	2
AG, OV, P100	Yellow/Magenta	60923	**4JG12**	2
FM, OV, P100	Olive/Black/Magenta	60925	**4JG14**	2
AM, CD, CL, FM, HC, HF, HS, MA, OV, SD	Olive	6006	**4JG24**	2
AM, CD, CL, FM, HC, HF, HS, MA, OV, P100, SD	Olive/Magenta	60926	**4JG16**	2
AG	White	6002	**3AG78**	2
AG, P100	White/Magenta	60922	**4JG11**	2
AM, MA	Green	6004	**1AZ78**	2
AM, MA, P100	Green/Magenta	60924	**4JG13**	2
CL, MV	Orange	6009S	**30PE48**	2
CL, MV	Orange/Magenta	60929S	**30PE49**	2
Particulate Cartridge Filters				
P100	Magenta	7093	**3PB42**	12
AG, OV, P100	Magenta	7093C	**4AVH8**	12
Low-Profile Particulate Filters, Premium Efficiency with Electret Filter Media				
P100	Magenta	2291	**5WYZ4**	2
OV, P100	Magenta	2297	**5WYZ6**	2
AG, P100	Magenta	2296	**5WYZ5**	2
Low-Profile Particulate Filters				
P100	Magenta	2091	**4JG27**	2
P100	Magenta	2097	**4JG29**	2
AG, P100	Magenta	2096	**4JG28**	2
P95	—	2071	**4MH55**	2
AG, OV, P95	—	2078	**4MH56**	2
AG, HF, P95	Olive	2076HF	**4AVH9**	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Prefilters			
P95 Prefilter	5P71	**4MH53**	10
N95 Prefilter	5N11	**4JG21**	10
Adapters and Retainers			
Adapter for Nos. 4MH53 and 4JG21 (Requires Retainer No. 5T464)	603	**5WZA3**	2
Retainer for Nos. 4MH53 and 4JG21	501	**5T464**	20
Adapter Allows Connection of 2000 Series Low-Profile Particulate Filters to 6000 Series Chemical Cartridges	502	**3AK17**	20

Disposable Dual Cartridge Half-Facepiece Respirator Kits

3M

- NIOSH approved

For easy ordering, commonly used respirators are preassembled with permanently attached cartridges on a 5000 series half-facepiece respirator.

Respirator Cartridge Included	▶CHOOSE: Size	Item No.
OV	S, M, L	**F8882**
OV, P95	S, M, L	**F8857**
AG, OV	S, M, L	**F8896**


No. F8882


No. F8857


No. F8896

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.



200 LS Half-Facepiece with Single Neckstrap



420 Half-Facepiece with Double Neckstrap



3200 Full-Facepiece



4200 Twin-Port Full-Facepiece

Advantage® Half- and Full-Facepiece Respirators

MSA The Safety Company

- NIOSH approved

Cartridges and filters sold separately. Fit test kits available; see page 1775.

200 LS Half-Facepiece—Soft, light, and comfortable. Sealing surface conforms to wearer.

420 Half-Facepiece—Allow quick adjustment for stable, comfortable fit. Adapt to a variety of head sizes and facial contours. Switch easily between lock-down and drop-down modes.

420 Half-Facepiece with Threaded Cartridge Adapters—1-pc. headband and harness assembly eliminates pressure points; form-fitting neck buckles and wide straps provide a comfortable fit. Face seal adapts to facial contours. Adjustable crown strap and quick, easy switch between lock-down and drop-down modes for flexibility. Include 2 cartridge adapters for use with Comfo® threaded cartridges, available on Grainger.com®.

3200 Full-Facepiece—Soft facepiece with rubber head harness and adjustable straps. Respirators feature antiscratch polycarbonate wrap-around lens and nose cup.

4200 Twin-Port Full-Facepiece—Dedicated twin-cartridge respirators with adaptable bayonet cartridge adapters mounted onto the lens. Rubber head harness. In-turned lip provides ideal face seal.

4200 Respirator RD40 Adapter—Converts the 4200 full-facepiece respirator for applications including supplied air respirators, powered air-purifying respirators (PAPRs), and gas mask configurations.

3200 and 4200 Accessories—Spectacle kit allows prescription eyewear to be worn with respirator. Lens covers protect lenses from soil or damage.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
200 LS Half-Facepiece				
Thermoplastic Rubber	S	Single Neck Strap	815448	**4LR46**
	M	Single Neck Strap	815444	**4LR40**
	L	Single Neck Strap	815452	**4LR32**
	S	Single Strap with Cradle	815696	**6JR27**
	M	Single Strap with Cradle	815692	**6JR26**
	L	Single Strap with Cradle	815700	**6JR28**
420 Half-Facepiece				
Silicone	S	—	10102182	**5JGE5**
	M	—	10102183	**5JGE6**
	L	—	10102184	**5JGE7**
420 Half-Facepiece with Threaded Cartridge Adapters				
Silicone	S	Yolk and Cradle	10119576	**10X301**
	M	Yolk and Cradle	10119575	**10X302**
	L	Yolk and Cradle	10119574	**10X303**
3200 Full-Facepiece				
Silicone	S	—	10031340	**3PB92**
	M	—	10031309	**3PB93**
	L	—	10031341	**3PB94**
4200 Twin-Port Full-Facepiece				
Silicone	S	—	10083786	**10X304**
	M	—	10083782	**10X305**
	L	—	10083790	**10X306**

Description	Mfr. Model	Item No.
4200 Respirator RD40 Adapter		
Converts Facepiece to 5 Types of Respiratory Configurations	10065330	**2YRD8**
3200 and 4200 Accessories		
Spectacle Kit	10029298	**5KB65**
Clear Lens Covers, Pkg. of 25	10031542	**5KB64**

Cartridge Approved For	Color Code	Mfr. Model	Item No.		Pkg. Qty.
Chemical Cartridges					
OV	Black	815355	**4LM93**		2
OV, P100	Black/Magenta	815362	**4LN01**		2
OV, P100	Black/Magenta	815641	**4LN09**	*	2
CD, CL, HC, OV, SD	Yellow	815357	**4LM95**		2
CD, CL, HC, OV, P100, SD	Yellow/Magenta	815364	**4LN03**		2
AM, CD, CL, FM, HC, HF, OV, SD	Olive	815359	**4LM97**		2
AM, CD, CL, FM, HC, HF, MA, OV, P100, SD	Olive/Magenta	815366	**4LN05**		2
AM, MA	Green	815358	**4LM96**		2
AM, MA, P100	Green/Magenta	815365	**4LN04**		2
CL, MV	Orange	815361	**4LM99**		2
CL, MV, P100	Olive/Magenta	815368	**4LN07**		2
CD, CL, HC, HS, SD	White	815356	**4LM94**		2
CD, CL, HC, P100, SD	White/Magenta	815363	**4LN02**		2
Low-Profile Particulate Filter Cartridge					
P100	Magenta	815369	**4LN08**		2
Low-Profile Particulate Filters - Flexi-Filter® for Welding					
P100	Magenta	818342	**6JR29**		2
OV, OZ, P100	Magenta	818343	**6JR30**		2
AG, HF, P100	Magenta	818344	**2ETH4**		2
N95	White	818346	**6JR31**		2
N95, OV, OZ	Black	818347	**1DKR7**		2

**** Effective against, but not NIOSH approved for, iodine vapor.***

Description	Mfr. Model	Item No.	Pkg. Qty.
Prefilters and Covers			
N95 Prefilter	815394	**4LR66**	10
N95 Prefilter	816357	**4LR71**	50
R95 Prefilter	815397	**4LR68**	20
Snap-On Cover for Nos. 4LR66 and 4LR71	815392	**4LR53**	2
Snap-On Cover for No. 4LR68	815401	**4LR54**	2



3100 Full-Facepiece

MSA The Safety Company

Advantage® Single-Port Full-Facepiece Respirators

- NIOSH approved

3100 series respirators have a nosecup that helps reduce lens fogging. Canisters attach directly to the facepiece with a single-port, standard-thread filter connection at the chin.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
Advantage® 3100 Series Full-Facepiece				
Silicone	S	4 pt. Strap	10031343	**1MBJ3**
	M	4 pt. Strap	10031342	**1MBJ4**
	L	4 pt. Strap	10031344	**1MBJ5**

Approved For	Color Code	Mfr. Model	Item No.
Canisters			
OV, P100	Black/Magenta	10067469	**1MBH9**
HF	Olive/Magenta	10067491	**1MBJ1**
FM, AG, CD, HS, P100	Olive/Magenta	10067470	**1MBJ2**
PH, AM, CL, P100	Olive/Magenta	10059903	**1MBH8**

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.


7700 Series


RU8500 Series


RU8800 Series


5400 Series


RU6500 Series


7600 Series (Cartridges Sold Separately)

Honeywell NORTH

Half- and Full-Facepiece Respirators

- NIOSH approved

Cartridges and filters sold separately. Fit test kits available; see page 1775.

HALF-FACEPIECE RESPIRATORS

5500 Series—Comfortable, low-profile design in latex-free materials is an economical choice for subcontractors, plant guests, and occasional users.

7700 Series—Medical-grade silicone half mask with a dual flange provides complete face-to-mask sealing and all day comfort.

RU8500 Series—Features a speech diaphragm that provides vocal clarity and aids in communication.

RU8800 Series—Has a triple flange that provides 3 surface areas to seal mask to the face. Designed to fit the widest range of facial types with silicone construction for all day comfort.

FULL-FACEPIECE RESPIRATORS

5400 Series—Economical models feature a 200° field of vision. Support APR, PAPR, and CF-SAR configurations.

RU6500 Series—Soft, durable silicone seal for all day comfort. Models feature the most configurations for APR, PAPR, and CF-SAR using either the center port or side ports.

7600 Series—Medical-grade silicone sealing surfaces and a speech diaphragm that allows clear communication. Antiscratch polycarbonate lens provides a 200° field of vision and a downward view for sight in all directions. Support APR, PAPR and CF-SAR configurations.

7600 Series Welding—The welding shield can be flipped up or removed when not welding. 2" x 4¼" shade plates not included.

FACEPIECE ACCESSORIES

Backpack Adapter—Backpack relocates APR cartridges to wearer's back to accommodate welding faceshields, or to move cartridges away from paint spray to help extend cartridge life. Converts half- (5500, 7700, RU8500, or RU8800 series) to a backpack-style respirator and helps minimize weight on the facepiece.

Welding Attachment—Converts 5400 and 7600 Series full-facepiece respirators to a welding respirator. Uses standard 2" x 4¼" welding lens, sold separately.

Spectacle Insert Kits—Metal spectacle frame with support wire accommodates personal prescription lenses (not included) that are fitted to the frame.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
Half-Facepiece Respirators				
5500 Series				
Thermoplastic Elastomer	S	Yolk and Cradle	550030S	**F8836**
	M	Yolk and Cradle	550030M	**F8836**
	L	Yolk and Cradle	550030L	**F8836**
7700 Series				
Silicone	S	Yolk and Cradle	770030S	**4T549**
	M	Yolk and Cradle	770030M	**3A182**
	L	Yolk and Cradle	770030L	**4T550**
RU8500 Series (Blue)				
Silicone	S	Yolk and Cradle	RU85001S	**52NY73**
	M	Yolk and Cradle	RU85001M	**52NY74**
	L	Yolk and Cradle	RU85001L	**52NY75**
RU8500 Series (Green)				
Silicone	S	Yolk and Cradle	RU85002S	**52NY76**
	M	Yolk and Cradle	RU85002M	**52NY77**
	L	Yolk and Cradle	RU85002L	**52NY78**
RU8500 Series (Lilac)				
Silicone	S	Yolk and Cradle	RU85003S	**52NY79**
	M	Yolk and Cradle	RU85003M	**52NY80**
	L	Yolk and Cradle	RU85003L	**52NY81**
RU8800 Series				
Silicone	S	Yoke and Cradle	RU88001S	**52ZV57**
	M/L	Yoke and Cradle	RU88001ML	**52ZV58**
Full-Facepiece Respirators				
5400 Series				
Thermoplastic Elastomer	S		54001S	**F8879**
	M/L		54001	**F8879**
RU6500 Series				
Silicone	S		RU65001S	**J5472**
	M		RU65001M	**J5472**
	L		RU65001L	**J5472**
	S		RU65002S	**45VH95**
	M		RU65002M	**52VK77**
	L		RU65002L	**45VH94**
7600 Series				
Silicone	S		760008AS	**F9080**
	M/L		Z760008A	**F9080**
7600 Series Welding				
Silicone	S		760008ASW	**4GM18**
	M/L		760008AW	**J6301**

Description	Mfr. Model	Item No.
Respirator Accessories		
Backpack Adapter	BP1002	**5HV95**
Welding Attachment for 5400 and 7600 Series	8404	**4GM35**
Spectacle Insert Kits Fits 5400 and 7600 Series	760024	**3PRG8**
Spectacle Insert Kit Fits RU6500 Series	962260	**3NVJ3**

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Chemical Cartridges				
OV	Black	N75001L	**16M237**	1
OV, P100	Black/Magenta	7581P100L	**16M230**	1
AG, OV, P100	Yellow/Magenta	7583P100L	**16M232**	1
CD, CL, HC, HF, HS, OV, SD	Yellow	N75003L	**16M239**	1
AM, CD, CL, FM, HC, HF, HS, MA, OV, SD	Olive	75SCL	**16M235**	1
AM, CD, CL, FM, HC, HF, HS, MA, OV, P100, SD	Olive/Magenta	75SCP100L	**16M236**	1
AG, P100	White/Magenta	7582P100L	**16M231**	1
AM, MA	Green	N75004L	**16M240**	1
CL, MV	Olive	N750052L	**16M241**	1
AM, MA, P100	Green/Magenta	7584P100L	**16M233**	1
CL, MV, P100	Olive/Magenta	75852P100L	**16M234**	1
CD, CL, HC, HF, HS, SD	White	N75002L	**16M238**	1
Particulate Cartridges				
P100	Magenta	7580P100	**6T451**	4
P100	Magenta	7580P100	**4GM16**	144
Low-Profile Filters				
P100	Magenta	75FFP100	**4RM17**	2
AG, OV, OZ, P100	Magenta	75FFP100NL	**3WZD4**	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Filter Pads, Filter Adapter, and Filter Retainer Cover/Holder Kit			
N95 Filter Pads	7506N95	**4RM31**	10
R95 Filter Pads	7506R95	**5HV73**	10
N99 Filter Pads	7506N99	**3WXZ8**	10
Filter Adapter, Attaches Low-Profile Particulate Filters Nos. 4RM17 or 3WZD4 to Chemical Cartridges	N750035	**4RM26**	1
Filter Retainer Cover/Holder Attaches Filter Pad Nos. 4RM31 or 5HV73, or 3WXZ8 to Chemical Cartridges	N750036	**16M242**	1
Filter Cover/Holder Kit Attaches Filter Pad Nos. 4RM31, 5HV73, or 3WXZ8 to Facepiece	N750037	**21ER23**	1

Honeywell NORTH

Half-Facepiece Respirator Kits

- NIOSH approved

The most commonly used respirators packaged complete with chemical cartridges and/or filters for easy ordering.

Size	Mfr. Model	Item No.
OV Respirator Kits		
M	7701M	**5JG98**
L	7701L	**5JG97**
OV, N95 Non-Oil Particulates Respirator Kits		
S	7701N95S	**4T870**
M	7701N95M	**4T871**
L	7701N95L	**4T872**
OV, R95 Particulates Respirator Kits		
M	7701R95M	**5HV87**
L	7701R95L	**5HV86**
OV, P100 Any Particulates Respirator Kits		
S	7781P100S	**5HV94**
M	7781P100M	**5HV93**
L	7781P100L	**5HV92**
P100 Any Particulates Respirator Kits		
S	7780P100S	**5HV91**
M	7780P100M	**5HV90**
L	7780P100L	**5HV89**


No. 5JG98


No. 4T870


No. 5HV90

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.



No. 38HX31

Versaflo™ TR Powered Air Purifying Respirator Kits

3M

Easy-Clean Kits—Include PAPR blower unit, easy-clean belt, headcover/hood assembly, prefilter, filter, adjustable-length tube, and battery charger.

Heavy Industry Kits—Provide combined eye, face, head, and respiratory protection for rugged operations. Include PAPR, high-durability leather belt, respirator hard hat, spark arrester/filter, heavy-duty breathing tube, and battery charger.

Description	Mfr. Model	Item No.
Versaflo™ TR-600 PAPR Easy Clean Kits		
PAPR and Hood with Integrated Head Suspension, Size L	TR-600-ECK	**38HX30**
Versaflo™ TR-600 PAPR Heavy Industry Kits		
PAPR, Hard Hat Assembly with Premium Visor, Flame-Resistant Face Seal, and HE/OV/AG Combination Filter Cartridge	TR-600-HIK	**38HX31**



No. 411D21

3M

Versaflo™ GVP Powered Air Purifying Respirator System

- NIOSH approved

Belt-mounted system is for use in heavy industrial environments.

Description	Mfr. Model	Item No.
PAPR System		
Includes Blower Motor, Cartridge, Breathing Tube, Breathing Tube Adapter, Belt, Battery Adapter, Power Cord, Battery, Charger, Heavy Duty Holster, Flow Test Assembly, Flow Meter Adapter	GVP-614-SK	**411D21**
Accessories		
GVP Upgrade Kit - Battery Adapter, Power Cord, Battery, Charger, Heavy Duty Holster	GVP-600	**411D20**
Easy Clean Holster	TR-657	**411D22**
Heavy Duty Holster	TR-656	**411D23**
Battery Adapter	TR-659	**411D24**
GVP Power Cord	GVP-610	**411D25**



No. 449U13

3M

Breathe Easy™ Powered Air Purifying Respirator System

- NIOSH approved

Complete system is for use in first responder applications. Hood No. 3NNF9 is chemical-resistant, allows excellent vision, and can accommodate facial hair and glasses.

Description	Includes	Mfr. Model	Item No.
PAPR System	Blower Motor, Butyl Rubber Hood, Breathing Tube, Decon Belt, Cartridge, Battery Adapter, Standard Battery, Easy Clean Holster, Battery Charger, Cartridge Shower Cover, Airflow Indicator, Duffel Bag	RBE-10BR	**449U13**
Accessories			
Adapter Kit	Battery, Charger, Holster	RBE-600	**449U12**
Hood	Wide View Faceshield and Shoulder Length Inner and Outer Shrouds, Sewn In, Elastic Headband	BE-10BR	**3NNF9**



No. 38HX34

Versaflo™ TR-600 Powered Air Purifying Respirator Assembly Kits

3M

- Headgear sold separately; see page 1769

Multiple airflow options and an expanded range of filters and cartridges help protect against hazards associated with handling pharmaceutical ingredients and cleaning operations. User-friendly with intuitive, colored interactive touch points and visual, vibratory, and audible low-flow and low-battery indicators. Come precalibrated and ready to use.

Description	Mfr. Model	Item No.
PAPR Assemblies (Headgear Sold Separately)		
With High Durability Leather Belt and Standard Battery	TR-613N	**38HX33**
With High Durability Leather Belt and High-Capacity Battery	TR-616N	**38HX35**
With Easy Clean Belt and Standard Battery	TR-614N	**38HX34**
With Easy Clean Belt and High-Capacity Battery	TR-617N	**38HX36**
Batteries		
Standard Battery, 4 to 6 hr. For Use with PAPR Nos. 38HX33, 38HX34	TR-630	**38HX41**
High-Capacity Battery, 8 to 12 hr. For Use with PAPR Nos. 38HX35, 38HX36	TR-632	**38HX42**
Chargers		
Single Station Battery Charger Kit for Economy Battery No. 38HX41	TR-641N	**38HX44**
Four Station Battery Charger Kit for High Capacity Battery No. 38HX42	TR-644N	**38HX45**
Filter Cartridges		
AG, HE Filter, Pkg. of 5	TR-6320N	**48ZU40**
FM, HE, Pkg. of 5	TR-6350N	**48ZU41**
AM, MA, HE, Pkg. of 5	TR-6360N	**49EM17**
OV, HE, Pkg. of 5	TR-6510N	**48ZU36**
OV, AG, HE, Pkg. of 5	TR-6530N	**48ZU37**
HE, Pkg. of 5	TR-6710N-5	**48ZU35**
Filter Covers		
For Nos. 48ZU40, 48ZU41, 49EM17	TR-6300FC	**38HX52**
For Nos. 48ZU36, 48ZU37	TR-6500FC	**38HX56**
For No. 48ZU35	TR-6700FC	**38HX61**

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.

Honeywell NORTH

Primair® 700 Series Powered Air-Purifying Respirator (PAPR)


No. 449N06

Features 3-speed airflow for more comfortable use in manufacturing, pharmaceutical, and hospital lab applications. The illuminated keypad has large buttons you can operate even when wearing gloves. The battery and blower motor are integrated into an ergonomic belt that distributes the weight for a more comfortable fit. Filter locks into place with just a ¼ turn to help ensure a tight and secure connection.

Description	Includes	Mfr. Model	Item No.
PAPR System	Blower, Battery, Charger, Comfort Pad, Belt, Bonus Starter Kit with PA100 Filter and Optional Filter Cover	PA701HE	449N06
Straight Breathing Tube		PA031	449N07

More Headgear Choices

Personnel who already have fit-tested North® Honeywell® headgear can adapt it to a CA200 PAPR system—all it takes is a breathing tube and cartridge. This lets the wearer keep familiar gear and helps reduce the complexity of respiratory protection compliance. See page 1763 for NIOSH-approved half- and full-facepiece respirators.



MSA The Safety Company

OptimAir® TL Powered Air-Purifying Respirators (PAPRs)


No. 2YRC9


No. 2YRD5


No. 2YRE2

- NIOSH approved
- Facepieces meet ANSI Z87.1

Each PAPR system includes motor-blower, battery, charger, breathing hose, and decontamination belt. Feature audible and visual low-flow and low-battery alarms. To complete the PAPR system, select a hood or full-facepiece respirator and appropriate cartridge. Advantage 4000® series facepieces require Cartridge Adapter No. 2YRD8, sold separately.

Description	Mfr. Model	Item No.	
PAPR Systems			
For Use with Hood, Lithium Battery	10081117	4AFV4	
For Use with Hood, NiMH Battery	10081116	2YRC9	
For Use with Full-Facepiece, Lithium Battery	10081115	4AFV3	
For Use with Full-Facepiece, NiMH Battery	10081114	2YRD1	
Hoods for PAPR Systems			
Tychem® QC, Pkg. of 4	10083330	2YRE2	
Tychem® SL, Pkg. of 4	10083382	2YRE3	
Full-Facepiece Respirators for PAPR Systems			
Advantage® 4000 Series			
Silicone, S	10083798	2YRD5	*
Silicone, M	10083794	2YRD6	*
Silicone, L	10083802	2YRD7	*
Ultra-Elite®			
Hycar Rubber, M	493020	D9078	
Hycar Rubber, L	493108	D9078	
Replacement Batteries and Chargers			
Lithium Battery/8 hr.	10076109	4AFV5	
Lithium Battery Charger	10076107	4FRP8	
NiMH Rechargeable Battery/4 hr.	10076108	2YRD9	
NiMH Battery Charger	10076110	2YRE1	
Facepiece Adapter for Advantage® 4000			
Converts Facepiece to 5 Types of Respiratory Configurations	10065330	2YRD8	
Chemical Cartridges			
P100, Magenta, Pkg. of 6	10080455	2YRD2	
OV, AG, P100, Yellow/Magenta, Pkg. of 6	10080454	2YRD3	
AG, AM, FM, P100, Olive/Magenta, Pkg. of 6	10080456	2YRD4	

** Advantage® 4000 facepiece requires Adapter No. 2YRD8 for use with cartridges.*

Honeywell NORTH

CA200 Series Powered Air-Purifying Respirator (PAPR) Assembly Kits


No. 16M250


No. 16M256

- NIOSH approved

Assemblies feature a triple-alarm system with audible, vibratory, and visual alerts that warn the wearer when there are blocked or clogged filters and at 5% and 10% battery life remaining. Airflow automatically adjusts to meet OSHA and CSA cfm requirements. Each kit includes a blower, Li-ion battery, belt (standard or decon), single-unit charger, flow meter, and carrying case. Require breathing tube, headgear, and cartridges, sold separately.

Note: Personnel who already have fit-tested Honeywell® North® tight fitting facepieces can adapt it to a CA200 PAPR system—all it takes is a breathing tube and cartridge. This lets the wearer use a common facepiece and helps reduce the complexity of respiratory protection compliance. See page 1763 for NIOSH-approved tight fitting facepieces (ie. half- and full-facepiece respirators).

Description	Mfr. Model	Item No.
PAPR Assembly Kits		
Standard Belt and Backpad	CA201	16M250
Decontamination Belt and Backpad	CA201D	16M251
Breathing Tubes		
34"L Straight, For Use with Hoods	CA127	16M248
40"L Straight, For Use with Hoods	CA127L	16M249
34"L "Y" Shape for Tight-Fitting Half- and Full-Facepieces	CA229	16M252
40"L "Y" Shape for Tight-Fitting Half- and Full-Facepieces	CA229L	38TD85
Primair® 100 Series Headgear		
Hood with Collar and Adjustable Headgear, White, Universal Size	PA131	16M256
Headcover with Adjustable Headgear, White, Size S	PA101S	1AAN5
Headcover with Adjustable Headgear, White, Size S	PA101M	1AAN6
Bibbed Hood and Adjustable Length, White, Universal Size	PA111	1AAN8
Coated Bibbed Hood and Adjustable Length, White, Universal Size	PA121	1AAN9
Cartridges, Pkg. of 3		
OV	4001	1AAL7
OV, P100	4001HE	1AAN1
OV, CL, HC, SD, FM, HF, CD, HS	4003	1AAL8
OV, CL, HC, SD, FM, HF, CD, HS, P100	4003HE	1AAN2
AM, MA, P100	4004HE	1AAN3
P100	40HE	1AAN4

Bullard

EVA Series Powered Air-Purifying Respirators (PAPRs)


No. 6KXU7


No. 6AG91


No. 6KXV3

- NIOSH approved

Active Flow Technology automatically responds to the user's need for constant, steady airflow. Systems feature an easy-to-read battery status display and alarms for low battery power and low airflow. Easy-to-install combination filter. PAPR Assemblies include battery, belt, blower, and charger. To complete the PAPR system, select a filter cartridge, hood or full-facepiece respirator, and breathing tube.

Description	Mfr. Model	Item No.
PAPR Assemblies		
For Use with Loose-Fitting Facepiece and Hoods	EVA2	6KXU7
For Use with Full-Facepiece Respirators	EVA5	6KXV1
Filter Cartridges		
HEPA, Pkg. of 6	PAPRFC3	6KXU9
OV, CL, SD, CD, HC, HF, HEPA Pkg. of 6	PAPRFC4	6KXV0
Components for PAPR No. 6KXU7		
Tychem® QC Hood, Single Bib, (Suspension Sold Separately)	20TJN	6AT82
Tychem® QC Hood, Double Bib, (Suspension Sold Separately)	20TICN	6AG91
Suspension with Sure-Lock® Ratchet Adjustment for Nos. 6AT82 and 6AG91	20RT	6AG89
Tychem® Loose-Fitting Facepiece with Headband Suspension, Size L	20LFL	3WXR5
Breathing Tube for Hood Nos. 6AT82 and 6AG91	PA1BT	3WXT4
Breathing Tube for Loose-Fitting Facepiece No. 3WXR5	PA20LFBT	3WXT8
Components for PAPR No. 6KXV1		
Spectrum Full-Facepiece Respirator, Size M/L	PASPECML	6KXV3
Breathing Tube for Respirator No. 6KXV3	PA4BT	6KXV4
PAPR Battery Packs		
For PAPR No. 6KXU7	EVABAT1	6KXU8
For PAPR No. 6KXV1	EVABAT2	6KXV2

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1758.



No. 32HD64

ALLEGRO INDUSTRIES

Pureflo® Powered Air-Purifying Respirator (PAPR) Systems

- NIOSH approved
- Meet ANSI Z89.1 Type I Class G for head protection, Z87.1+ for faceshield/eye protection

Helmets provide all-in-1 head, eye, face, and respiratory protection. A lightweight, battery-driven positive-pressure PAPR is integrated in the helmet, eliminating waist belts and trailing hoses or leads. Electronic systems management (ESM) features a heads-up display and visual and audible alarm for airflow and filter and battery life. Flow rate adjusts to 7.6 or 8.2 cfm.

Description	Mfr. Model	Item No.
Pureflo® ESM PAPR Systems		
Black Helmet	2000-S	**32HD64**
White Helmet with Fixed Lens	2000-H	**32HD65**
Filters and Accessories		
Battery Pack	2000-BP	**32HD68**
Battery Charger	2000-BC	**32HD69**
Neck Cape For Use with Nos. 32HD64 and 32HD65	2000-NC	**32HD70**
Visor Protectors, Pkg. of 4	2000-VP	**32HD71**
HE Filters, Pkg. of 8	2000-HEPA	**32HD72**
HE/HF/HC Filter	2000-HEFC	**32HD73**



No. 32HD66

ALLEGRO INDUSTRIES

Pureweld® Powered Air-Purifying Respirator (PAPR) System

- NIOSH approved
- Meets ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

All-in-1 welding helmet provides head, eye, face, and respiratory protection. The helmet has an integrated lightweight, battery-driven positive-pressure PAPR, which eliminates waist belts and trailing hoses or leads. A heads-up display and visual and audible alarm for air flow and filter and battery life are provided by the electronic systems management (ESM) feature. Flow rate adjusts to 7.6 or 8.2 cfm. The system can function as a fracking respirator to help protect oil and gas workers against inhaling silica dust. The welding window flips up for easy visibility and conversation through a clear inner visor. Choose fixed or autodarkening filter. Includes neck cape, HE filter, battery pack, and charger.

Description	Mfr. Model	Item No.
Pureweld® ESM PAPR Systems		
Blue Welding Helmet with Filter Shades 5, 9 to 13	2000-W	**32HD66**
Black Welding Helmet with NexGen Auto Darkening Filter Shade 10	2000-WB	**32HD67**
Filters and Accessories		
Battery Pack	2000-BP	**32HD68**
Battery Charger	2000-BC	**32HD69**
NexGen Auto Darkening Filter Shade Assembly For Use with No. 32HD67	9904-35	**32HD74**
HE Filters, Pkg. of 8	2000-HEPA	**32HD72**
HE/HF/HC Filter	2000-HEFC	**32HD73**



EZ Air
No. 40LK59



EZ Air
No. 40LK60



EZ Air Pro
No. 40LK57



EZ Air Pro
No. 40LK61



EZ Air Pro
No. 40LK56

ALLEGRO INDUSTRIES

EZ Air and EZ Air Pro PAPRs

- NIOSH approved
- Meet ANSI Z89.1 Type I Class G for head protection, Z87.1+ for faceshield/eye protection

Complete particulate system for industrial applications offers combined respiratory, eye, and face protection against hazardous airborne contaminants and flying debris. Include downtube with FR cover, blower, HE filter, waist belt, battery, charger, and storage bag. Batteries provide up to 8 hr. use per full charge, 5 hr. full recharge time.

EZ Air—Motorized, lithium-ion battery operated system provides constant supply of fresh, filtered air over user's face. Large helmet design accommodates safety glasses under faceshield. Has airduct headgear assembly and flow tester, and features audible, visual, and vibration alarms. Waist belt is lightweight and adjustable. Rechargeable battery.

EZ Air Pro—Designed with superb balance, no fit testing required. Helmets are interchangeable with supplied air respirators and be converted. Ergonomically and lightweight waist pack has low profile style and holds NiMH battery pack.

Description	Mfr. Model	Item No.
EZ Air PAPRs		
Black Welding Helmet with ADF Lens and 1.9" x 3.8" Viewing Area, (4) Light Shade Modes, Shade 5-14, and HE Filter	9935	**40LK59**
Black Welding Helmet with ADF Lens and 3.2" x 3.9" Viewing Area, (3) Light Shade Modes, Shade 5-14, Magnetic Sensor, and HE Filter	9935-DLX	**40LK60**
EZ Air Pro PAPRs		
Blue Helmet with Clear Lens and (2) HE Filters	9934	**40LK57**
Black Welding Helmet with #10 Lens and 3.2" x 3.9" Viewing Area, (3) Light Shade Modes, and (2) HE Filters	9934-WB	**40LK61**
Blue Welding Helmet with ADF Lens and 2.3" x 3.9" Viewing Area, (4) Light Shade Modes, Shade 5-14 Lens, Magnetic Sensor, and (2) HE Filters	9934-W	**40LK56**
Replacement Filters For EZ Air PAPRs		
HE	9935-FIL	**40LK55**
Replacement Filters For EZ Air Pro PAPRs		
HE	PR02-623SP	**40LK62**
HE/OV	PR02-629SP	**40LK58**
HE/HF/HC/SD	PR02-624SP	**40LK63**



9100MP Headgear
No. 32NC49



L-905SG Helmet
No. 32NC58

Adflo™ Powered Air-Purifying Respirator (PAPR) Systems for Welding

3M

- NIOSH approved
- Facepieces meet ANSI Z87.1-2010 for high impact

Headgear combines hard hat, welding filter, and positive-pressure airflow to help wearer be productive and comfortable while welding or grinding.

The lightweight, compact blower offers continuous filtered air for protection against particles and certain gases. Its slim profile fits into tight places.

The Speedglas™ filter provides superior optical performance. Speedglas™ headgear's auto-darkening feature allows sight at comfortable light levels, with constant eye and face protection.

Systems include a high-efficiency particulate filter, wide leather belt, lithium-ion battery, storage bag, and starter kit.

With 9100-Air Headgear—Lighter and more stable than other systems, this features an adjustable head suspension and a more balanced design. Provides more protection to the ears and sides of the neck. The smooth up-and-down pivot design can lock shield in a raised position.

With 9100FX-Air Headgear—Innovative flip-up pivot design allows easy transition from welding to grinding modes for greater welding flexibility. Clear, wide-view grinding visor offers an enhanced field of view.

With 9100MP Headgear—Provides 5 levels of welder protection in 1 comfortable and easy-to-use system. Compact and lightweight design helps protect the eyes, face, head, hearing, and respiratory system. Also provides overhead protection, increased peripheral vision, and superior optical quality.

- Meets ANSI Z89.1-2009 requirements for Type I Class G hard hats

With L-905SG Helmet—Features grinding and tack modes, with 5-position sensitivity control, adjustable recovery delay, welding shield, and wide-view faceshield that allows excellent peripheral and downward vision.

- Meets ANSI Z89.1-2009 requirements for Type II Class G hard hats

Speedglas™ Auto Darkening Filters (ADF) and Magnification Plates—Filters feature a built-in magnification plate holder and 7 selectable dark shades, plus the capability to lock in a shade for plasma and torch cutting. They also have a shade 3 grinding mode and tack welding mode to help reduce eye fatigue during tacking applications. Can be used in TIG applications on settings as low as 1A.

Description	Mfr. Model	Item No.
Adflo™ PAPR Systems with Speedglas™ Headgear For Welding		
9100-Air Headgear System		
PAPR with HE Filter (ADF Sold Separately)	35-1101-00SW	**32NC39**
PAPR with HE Filter and ADF 9100V Shades 5 and 8 to 13	35-1101-10SW	**32NC33**
PAPR with HE Filter and ADF 9100X Shades 5 and 8 to 13	35-1101-20SW	**32NC34**
PAPR with HE Filter and ADF 9100XX Shades 5 and 8 to 13	35-1101-30SW	**32NC35**
9100FX-Air Headgear System		
PAPR with HE Filter (ADF Sold Separately)	36-1101-00SW	**32NC47**
PAPR with HE Filter and ADF 9100V Shades 5 and 8 to 13	36-1101-10SW	**32NC41**
PAPR with HE Filter and ADF 9100X Shades 5 and 8 to 13	36-1101-20SW	**32NC42**
w/HE Filter and ADF 9100XX Shades 5 and 8 to 13	36-1101-30SW	**32NC43**
9100MP Headgear System		
PAPR with HE Filter (ADF Sold Separately)	37-1101-00SW	**32NC52**
PAPR with HE Filter and ADF 9100V Shades 5 and 8 to 13	37-1101-10SW	**32NC49**
PAPR Systems	37-1101-20SW	**32NC50**
PAPR with HE Filter and ADF 9100XX Shades 5 and 8 to 13	37-1101-30SW	**32NC51**
L-905SG Helmet		
PAPR with HE Filter and ADF 9100V Shades 5 and 8 to 13	34-0905-SGV	**32NC58**
PAPR with HE Filter and ADF 9100X Shades 5 and 8 to 13	34-0905-SGX	**32NC59**
Speedglas™ L-SG Series Welding Headgear and Accessories		
Auto Darkening Filters (ADF) and Magnification Plates 9100V, Shades 5 and 8 to 13	06-0000-10	**4EFP2**
Auto Darkening Filters (ADF) and Magnification Plates 9100X, Shades 5 and 8 to 13	06-0000-20	**4EFN9**
Auto Darkening Filters (ADF) and Magnification Plates ADF 9100XX, Shades 5 and 8 to 13	06-0000-30	**4EFP1**
Speedglas™ Auto Darkening Filters (ADF) and Magnification Plates		
Speedglas™ L-SG Series Magnification Plates		
Magnification Plate 1.5X	06-0500-56	**32V211**
Magnification Plate 2.0X	06-0500-57	**32V212**
Magnification Plate 2.5X	06-0500-58	**32V213**
Magnification Plate 3.0X	06-0500-59	**32V214**

ILC DOVER
creating what's next»

Sentinel XL™ CBRN PAPR System

- NIOSH approved
- Latex-free

Capacity-2-rated loose-fitting PAPR provides first receivers and other first responders with chemical and biological protection. The butyl hood assembly has a lay-flat design for easy storage; it has a field-replaceable antimicrobial head strap, superior optics, and taped seams. The rugged, dual-chamber blower delivers high flow rates. With an audible/visual low voltage alarm. The system includes a Quick Loc™ waist belt, flow meter, 3 CBRN cartridges, and nonrechargeable battery.

Description	Mfr. Model	Item No.
CBRN PAPR System	S-5000-03	**6NTX4**





3M

CBRN Powered Air-Purifying Respirators (PAPRs)

Breathe Easy™ PAPR Systems—Belt-mounted systems include butyl rubber hood, breathing tubes, decon belt, CBRN cartridges, battery pack, and airflow indicator. Butyl rubber hood material meets MIL-C-51251A.

- NIOSH CBRN approved

CBRN Conversion Kit—Enables conversion of 3M™ non-CBRN Breathe Easy models to NIOSH CBRN approved systems.

Biological Conversion Kits—Convert Breathe Easy in chemical response configuration to a biological response configuration. Include 3 loose-fitting head covers, breathing tube, and HEPA filter cartridges.

Description	Mfr. Model	Item No.
Breathe Easy™ PAPR Systems		
Butyl Rubber Hood, w/Lithium Battery	RBE-L10	**1UKG9**

Description	Mfr. Model	Item No.	
Breathe Easy™ System Components			
Batteries			
Nonrechargeable Battery, Lithium/12 hr.	520-04-57R01	**4DA54**	
Cartridges			
Training Cartridge, Pkg. of 6	RBE-TRN	**1UKH3**	
CBRN, Olive, Pkg. of 6	RBE-57	**1UKG6**	
OV, AG, SD, CL, HC, AM, MA, HF, CD, FM, Olive/Magenta, Pkg. of 6	453-03-02R06	**4DA69**	*
Accessories			
Breathing Tube	RBE-BTH	**1UKG8**	
Decon Belt	RBE-BLT	**1UKG7**	
Cartridge Shower Cover	RBE-SC	**1UKH2**	
CBRN Conversion Kit			
Upgrade 3M™ Models FR-57L10 and FR-57N10 to RBE-L10 and RBE-NM10	RBE-HUP	**2RPJ8**	
Biological Conversion Kits and Replacement Components			
Bio Kit, Universal	BE-12-BIOKIT	**4NLH9**	
Bio Kit, Large	BE-12L-BIOKIT	**4NLJ1**	
Head Cover, White, Regular, Pkg. of 50	BE-12-50	**6PPJ0**	
Head Cover, White, Large, Pkg. of 50	BE-12L-50	**1AGD5**	
Breathing Tube	520-03-32R01	**3NNG5**	
HEPA Cartridge, Pkg. of 12	450-00-01R12	**9W546**	

**** For use with 3M™ models FR-57L10 and FR-57N10 to RBE-L10 and RBE-NM10.***



No. 16N394

Honeywell NORTH

CBRN Full-Facepiece Respirators

- NIOSH approved when used with Canister No. 16N401
- Meet ANSI Z87.1-1989 impact and penetration requirements

Opti-Fit™ respirators feature 3 canister mounting positions specifically for first responders in CBRN situations. Polycarbonate lens with antiscratch coating permits unobstructed views. 5-strap silicone head harness with chemical-resistant butyl rubber face skirt. Masks with drink tube allow hydration in uncontaminated areas.

Size	Mfr. Model	Item No.
CBRN Mast		
S	759000	**16N394**
M	769000	**16N395**
L	779000	**16N396**
CBRN Mask with Hydration Drink Tube		
S	759020	**16N397**
M	769020	**16N398**
L	779020	**16N399**
Gas Mask Canister		
—	169000	**16N401**



No. 2PJ70

3M

First Responder CBRN Full-Facepiece Respirators

- NIOSH approved
- Facepieces meet ANSI Z87.1

Protect against certain chemical warfare agents (sarin and mustard gas) and industrial chemicals and particulates. Canister can be mounted on either side for convenience.

Description	Mfr. Model	Item No.
Full-Facepiece Respirators		
Butyl Rubber, S	FR-7800B-S	**2PJ68**
Butyl Rubber, M	FR-7800B-M	**2PJ69**
Butyl Rubber, L	FR-7800B-L	**2PJ70**
CBRN Canister		
Olive/Magenta, Pkg. of 4	FR-15-CBRN	**4DA62**


No. 11V994


No. 5WZA6


No. 6PPH1


No. 4EFL4


No. 1AGD9


No. 6AJ02


No. 1BC35

3M Supplied Air System Components

Easily build a supplied air respirator system. Just choose headgear, a breathing tube, and an air source that fits your needs.

Note: Headgear, breathing tube, air control valve, and compressed air supply hoses are required parts of a NIOSH-approved system.

HEADGEAR AND ACCESSORIES

Versaflo™ M- and S-Series Headgear and Accessories—Compact, lightweight, and easy to maintain while helping protect the wearer from a range of hazards. Versatility, comfort, and ease of use make this headgear suitable for a variety of applications.

H-Series Hood and Accessories—Can be easily worn with limited facial hair or eyewear.

- Hood assembly meets ANSI Class 1, Class E requirements for industrial headgear

Speedglas™ L-SG Series Welding Headgear and Accessories—Feature arc detection electronics for use with all arc welding processes. Wide-view facepiece allows for excellent peripheral and downward vision. Headgear provides respiratory protection up to 1000 x PEL.

- Meet ANSI Class I and Type II requirements for industrial headgear

SUPPLIED AIR CONTROL, HOSES, AND FILTRATION

V-Series Air Control Devices—The devices are designed to provide a continuous air flow. For enhanced wearer comfort, Nos. 4YG10 (cool) and 1CGB7 (warm) allow the compressed air supply temperature to be adjusted up to 50°F.

Supplied Air Hoses—Combine up to 3 high-pressure hoses in any combination not to exceed 300 ft. Low-pressure hoses can only be used in single increments of 50 or 100 ft.

Compressed Air Filter and Regulating Panel—Helps filter and regulate compressed air.

Description	Mfr. Model	Item No.	
Versaflo™ M- and S-Series Headgear and Accessories			
M-Series Headgear			
Faceshield with Premium Visor and Faceseal	M-107	**11V994**	
Hard Hat with Standard Visor and Faceseal	M-305	**11W001**	
Hard Hat with Premium Visor and Faceseal	M-307	**11W002**	
Helmet with Standard Visor and Shroud	M-405	**11W007**	
Helmet with Premium Visor and Flame-Resistant Shroud	M-407	**11W008**	
M-Series Lens Covers			
Standard Visors, Pkg. of 10	M-926	**11W018**	
Premium Visors, Pkg. of 40	M-928	**11W058**	
S-Series Headcovers			
Polypropylene with Integrated Suspension, White, Size S/M, Pkg. of 5	S-133S-5	**6PPH1**	
Polypropylene with Integrated Suspension, White, Size M/L, Pkg. of 5	S-133L-5	**6PPG9**	
S-Series Hoods			
High-Durability Low-Lint Fabric with Integrated Suspension, White, Size S/M	S-533S	**5WZC7**	
High-Durability Low-Lint Fabric with Integrated Suspension, White, Size M/L	S-533L	**5WZC6**	
Polypropylene with Inner Collar and Reusable Suspension, White, Universal Size	S-655	**5WZD0**	
Polypropylene with Double Shroud and Reusable Suspension, White, Universal Size	S-657	**5WZD1**	
Kappler® Zytron® with Inner Collar and Reusable Suspension, Gray, Universal Size	S-855	**5WZE8**	
Kappler® Zytron® with Double Shroud and Reusable Suspension, Gray, Universal Size	S-857	**5WZF0**	
Painter's Polypropylene with Double Shroud and Reusable Suspension, White, Universal Size	S-757	**5WZD3**	
S-Series Replacement Hoods Only			
Polypropylene Hood with Inner Collar, White, Universal Size, Pkg. of 10	S-605-10	**6PPH7**	
Polypropylene with Double Shroud, White, Universal Size, Pkg. of 10	S-607-10	**6PPH8**	
Painter's Polypropylene with Double Shroud, White, Universal Size, Pkg. of 10	S-707-10	**6PPH9**	
Kappler® Zytron® with Inner Collar, Gray, Universal Size, Pkg. of 5	S-805-5	**6PPH5**	
Kappler® Zytron® with Double Shroud, Gray, Universal Size Pkg. of 5	S-807-5	**6PPH6**	
S-Series Lens Covers			
Hoods with Integrated Suspension, Size S/M, Pkg. of 10	S-920S	**5WZD5**	
Hoods with Integrated Suspension, Size M/L, Pkg. of 10	S-920L	**5WZD4**	
Hoods, Universal Size, Pkg. of 10	37302	**5WZD6**	
M- and S-Series Breathing Tubes			
Size S/M	BT-20S	**5WZA7**	
Size M/L	BT-20L	**5WZA6**	
Adjustable Length	BT-30	**11W054**	
Heavy Duty Neoprene Rubber	BT-40	**11W055**	
H-Series Hood and Accessories			
Hood Assembly with Collar, Hard Hat with 4-Pt. Pinlock Suspension, Chin Strap and Lens Cover, White, Standard Size	H-412	**4YG05**	
Replacement Hood with Collar, White, Standard Size, Pkg. of 10	H-410-10	**4YG03**	
Lens Covers, Pkg. of 10	H-110-10	**4YG02**	
Breathing Tube	GVP-122	**5F787**	
Speedglas™ L-SG Series Welding Headgear and Accessories			
Welding Headgear	L-905SG	**4EFL4**	*
Welding Headgear	L-705SG	**4EFL5**	*
Auto Darkening Filters (ADF) and Magnification Plates 9100V, Shades 5 and 8 to 13	06-0000-10	**4EFP2**	
Auto Darkening Filters (ADF) and Magnification Plates 9100X, Shades 5 and 8 to 13	06-0000-20	**4EFN9**	
Auto Darkening Filters (ADF) and Magnification Plates ADF 9100XX, Shades 5 and 8 to 13	06-0000-30	**4EFP1**	
Lens Covers, Pkg. of 25	37014	**4YG07**	
Breathing Tube	L-122	**4YG06**	
Supplied Air Control, Hoses, and Filtration			
V-Series Air Control Devices			
Vortex Cooling Assembly	V-100	**4YG10**	
Vortemp™ Heating Assembly	V-200	**1AGB7**	
Air Regulating Valve Assembly	V-300	**1AGD9**	
Low-Pressure Connector Assembly	V-400	**3RNY2**	
Supplied Air Hose—High Pressure			
25-ft. ⅜" I.D.	W-9435-25	**6AJ02**	
50-ft. ⅜" I.D.	W-9435-50	**3AH20**	
100-ft. ⅜" I.D.	W-9435-100	**6AT77**	
Supplied Air Hose—Low Pressure			
50-ft. ½" I.D.	W-3020-50	**5F863**	
100-ft. ½" I.D.	W-3020-100	**5F856**	
Compressed Air Filter and Regulating Panel			
50 cfm @ 105 psi Max. Capacity	W-2806	**1BC35**	

**** Headgear requires Speedglas™ L-Series auto-darkening filter, sold separately.***

3M Versaflo™ Painters Supplied Air Respirator Kit

Painter's supplied air respirator kit includes No. 11V993 (M-105) respiratory faceshield with lens covers, No. 4YG10 (V-100) Vortex Cooling Assembly, and No. 5WZA7 (BT-20L) Breathing Tube with cover. A high-pressure supplied air hose, sold separately on this page, is required to complete a NIOSH-approved system.

Description	Mfr. Model	Item No.
Painters SAR Kit	SA-100-PSK	**11W028**



Scan. Order. Done.
Details on page A1.













SAR Headgear and Components

SAR HEADGEAR

Disposable Airline Hoods—Feature 1-pc. design with fully integrated breathing tube and head suspension. Hood adjusts easily with hook-and-loop closure and has an absorbent foam headband.

Nos. 3WXJ7 and 11V243 are splash-resistant and seal in air flow. No. 3WXK2 laminated fabric with heat-sealed seams is made to offer zero permeability to air and moisture, and provide total protection against hazardous materials.

- NIOSH approved

Full-Facepiece Respirator and Helmets—Full-Facepiece Respirator is designed for high-pressure (150 psig) SAR systems, with a double-sealing flange for close fit. Adjustable belt holds the air flow valve and over-the-shoulder hose out of the way. High-impact, antifog, distortion-free polycarbonate lens.

Low-profile, lightweight Economy Air Shield Helmet has a quick-release suspension, flip-up visor, headband ratchet assembly, cotton neck shroud, and chin guard. The high-impact, antifog polycarbonate lens with antiscratch coating provides a wide field of distortion-free vision.

Deluxe models provide head, eye, face, and respiratory protection against hazardous airborne contaminants and flying debris in demanding industrial environments. Feature fire-retardant, coated fabric neck cape. Air Shield and Welding Helmet is made of glass-filled nylon with a variable-shade autodarkening lens, shade 9-13, good for all welding processes including TIG and TIG pulsing.

- Economy model meets ANSI Z87.1-2003
- Deluxe models meet ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

Description	Mfr. Model	Item No.
SAR Headgear		
Disposable Airline Hood Assemblies		
Tyvek® Hood with Single Bib and Suspension	9911-20	**3WXJ7**
Tyvek® Hood with Double Bib and Suspension	9911-10	**11V243**
Saran® Hood with Single Bib and Suspension	9911-20S	**3WXK2**
Full-Facepiece Respirator and Helmets		
Full-Facepiece Respirator	9902	**3WUX1**
Economy Air Shield Helmet	9903	**6UNP7**
Deluxe Air Shield Helmet	9904	**23UA39**
Deluxe Air Shield and Welding Helmet	9904-W	**23UA40**

SAR COMPONENTS

Air Flow Control Devices—Low Pressure Flow Adapter allows an LP SAR hood to connect to an ambient air pump or low-pressure air source. OBAC quick-connect design with belt and clip assembly.

High-Pressure controllers are for use with high-pressure SARs. Their low-profile design won't get in the way. Each has Hansen fittings with belt and clip assembly. Personal Air Cooler adjusts air flow up to 25° cooler than ambient. Air Temperature Controller adjusts air 25° warmer or cooler than ambient, and includes a leather sheath for protection from temperature extremes. Adjustable Flow Control Valve changes air flow for greater comfort.

Air Supply Hoses—Use low-pressure hoses with ambient air compressors and high-pressure hoses with supplied-air compressors.

Filtration Panels—3-stage filtration system removes water, oil, and particulate contaminants, and provides alerts for high levels of CO. Include pressure regulator with gauge, pressure relief valve, case and stand.

- Meet NIOSH requirements

Description	Mfr. Model	Item No.
SAR Components		
Low Pressure		
Air Flow Adapter	9910-11	**3WXK6**
High Pressure		
Personal Air Cooler	9991	**3WXL5**
Air Temperature Controller	9990	**3WXL9**
Adjustable Flow Control Valve	9992	**3WXL1**
Low-Pressure Air Supply Hoses		
25-ft. Hose, ⅜" I.D.	9100-25	**23UA41**
50-ft. Hose with ⅜" I.D.	9100-50	**3WXN4**
100-ft. Hose with ⅜" I.D.	9100-100	**3WXD8**
High-Pressure Air Supply Hoses		
25-ft. Hose, ⅜" I.D.	9101-25B	**23UA42**
50-ft. Hose with ⅜" I.D.	9101-50B	**3WXN8**
100-ft. Hose with ⅜" I.D.	9101-100B	**11V244**
Filtration Panels		
60 cfm, 150 psi, 5 Person Filtration Panel	9875	**2KJE7**
100 cfm, 150 psi, 8 Person Filtration Panel	9878	**2KJE8**
Replacement Filter Kit For No. 2KJE7	9872-50	**2KJE9**
Replacement Filter Kit For No. 2KJE8	9878-50	**2KJF1**



ALLEGRO

Portable Ambient Air Compressors

Lightweight, suited for a variety of work environments, and easily meet portable air requirements.

Description	CFM	HP	Voltage	Amps	Mfr. Model	Item No.
1 Person with Mask	5	¼	115	4.6 AC	9806 OBAC	**8UKR8**
2 People with Masks or 1 Person with Hood	10	¾	115	9.05 AC	9821 OBAC	**9AAV3**
3 People with Masks or 2 People with Hoods	20	1½	115	12.4 AC	9832 OBAC	**8A689**

FIND MORE ONLINE
Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!

Bullard

SAR Respirator Assemblies and Components

SUPPLIED AIR RESPIRATORY (SAR) HEADGEAR

CC20 Respirator Hoods—Hoods deliver continuous airflow and protect face, head, and neck. Provide excellent peripheral vision through 6" x 17" facepiece.

Note: To build a complete Bullard® supplied air system, choose 1 each from the following groups: respirator hoods and breathing tube assemblies for use with a breathing air compressor or free-air ambient pump.

88VX Abrasive Blasting Helmet Respirator Assembly—Respirator has a lightweight inner shell with an adjustable headband and wide-angle facepiece. Assembly includes a helmet, cape, ¼" industrial interchange fittings, breathing tube, airflow control, belt, inner/outer lens, and 5 Mylar® lens covers.

- NIOSH approved
- Facepiece meets ANSI/ISEA Z87.1-2010
- Head protection meets ANSI/ISEA Z89.1-2014

Note: For use with breathing air compressors.

BREATHING TUBE ASSEMBLIES

Control the flow of air into the respirator.

SUPPLIED AIR RESPIRATORY (SAR) COMPONENTS

Climate Control Tube—Control the temperature of air delivered to the respirator.

Air Supply Hoses—For use with breathing air compressors and have ⅜" I.D. Starter hose has ¼" female coupler and ¼" male fitting. Air supply hose for use with free-air ambient pumps. Hose has ½" female coupler and ½" male fitting.

41 Series Airline Filter—7-stage filtration system with 6 layers of filtration to remove water, oil, odors, and particulates. Includes 2 outlets with pressure gauge, relief valve, and pressure regulator. Can be used with other compressor safeguards to provide clean air to airline respirators.

CO Monitor—Displays the CO concentration with audible alarm when high CO levels are present. Includes remote alarm connection devices and connection kit for Airline Filter No. 6AM36 and any compressed breathing air source.

- Operates on 110/220VAC or 12VDC

Grade-D Breathing Air Filtration and CO Monitors—Portable Clean Air Box (CAB) system provides 3-stage filtration and carbon monoxide (CO) monitoring. Filters remove oil, water, particulates, oil vapor, and odors. Independent regulators provide proper airflow to each user. CO monitor features remote-capable, high-intensity 90dB alarm with strobe; internal and external visual display; and 90-sec. auto calibration. Powered by 110VAC or 8 AA batteries. Housed in a rugged polycarbonate Pelican® case that withstands harsh work environments.


No. 3AJ96


No. 3NRD6


No. 2AK34


No. 6AC11


No. 6KXV7


No. 6AM36


No. 38NF66

Description	Mfr. Model	Item No.
SAR Headgear		
CC20 Respirator Hoods (Suspension Sold Separately)		
Tychem® QC Hood, Basic	20TJN	**6AT82**
Tychem® QC Hood, Inner Bib Style	20TICN	**6AG91**
Tychem® QC Hood, Inner Bib Style For Use with Hard Hat	20TICH	**3AJ96**
CC20 Hood Suspensions		
Headband with Rear Slide Adjustment for Respirator Hoods Nos. 6AT92 and 6AG91	20TG	**5AC89**
Headband with Sure-Lock® Ratchet Adjustment for Respirator Hoods Nos. 6AT82 and 6AG91	20RT	**6AG89**
CC20 Hood Lens Covers		
Mylar® Lens Covers, Pkg. of 25	20LCL	**1AAK3**
88VX Abrasive Blasting Helmet Respirator Assembly		
With 28" Nylon Cape	88VX3230	**3NRD6**
88VX Abrasive Blasting Helmet Accessories		
28" Nylon Cape	46VX	**5AF35**
38" Nylon Cape	13VX	**6AV30**
Tritan™ Inner Lens, Pkg. of 10	MP771B	**6KXV6**
Tritan™ Outer Lens, Pkg. of 25	MP771020	**6KXV5**
Breathing Tube Assemblies		
Constant Airflow For Use with Breathing Air Compressor	V30	**2AK34**
Adjustable Airflow For Use with Breathing Air Compressor	V40	**6AL49**
Constant Airflow For Use with Free-Air Ambient Pumps	V35	**5AK99**
SAR Components		
Climate Control Tube		
Cool Tube For Use with Breathing Air Compressors	AC1000	**6AC11**
Heat/Cool Tube For Use with Breathing Air Compressor	HC2400	**6AX08**
Air Supply Hoses For Use with Breathing Air Compressors		
V5 Series, Nylon, Coiled, 50 ft.	V55030	**6AW41**
V10 Series, Rubber, 50 ft.	469650	**6KXV7**
Air Supply Hose For Use with Free-Air Ambient Pumps		
V20 Series, Rubber, 50 ft.	V2050ST	**6AV02**
41 Series Airline Filters and Replacement Cartridge		
Floor Mount Airline Filter	41P2	**6AM36**
Wall Mount Airline Filter	41P2WM	**38NF64**
Replacement Filter Cartridge for 41 Series Airline Filters	41AF	**2AL06**
CO Monitor		
For Use with Any Compressed Air Breathing Air Source	COHP	**2MWK9**
Grade-D Breathing Air Filtration and CO Monitors		
30 CFM, 125 psi, 2 Person	CAB30IRHA	**38NF66**
50 CFM, 125 psi, 4 Person	CAB50IRHA	**38NF67**
100 CFM, 125 psi, 8 person	CAB100IRHA	**38NF65**

Bullard

Portable Ambient Air Compressors

Portable Free-Air® pumps can quickly and easily supply breathable air. Transfer ambient air from a clean air location to a supplied air respirator.

Nos. 3AM92 and 6AH13 feature Carbofine outlet filter. Medium-efficiency inlet filter keeps particulates larger than 25 microns out of the air supply. Monitors, calibrators, and airline filters are not required.

No. 38NF68 includes wheel kit, roll cage, inlet filters, and pressure gauge.

For Use With	CFM	HP	Voltage	Amps	Mfr. Model	Item No.
2 People in Masks or 1 Person in Hood or Helmet	10	¾	115	10.2 AC	EDP10	**3AM92**
3 People in Masks or 2 People in Hood or Helmet	10	1½	115/208 to 230	16, 8 AC	EDP16TE	**6AH13**
1 Person in Mask or Hood	8	2	115	19	ICEPUMP11	**38NF68**


No. 3AM92


No. 38NF68



No. 16M243

Supplied Air Respiratory (SAR) Packaged Systems and Airline Assemblies

Honeywell NORTH

- NIOSH approved

SAR Packaged Systems—Kits include everything needed to set up an airline system. The rotary vane air pump supplies breathable air from a clean-air environment. Breathing tube for all systems is located behind the back to keep it out of the way.

Packages with facepiece respirators include one or two Honeywell North 7600 full-facepiece or 7700 half-facepiece mask(s) made of 100% silicone. Packages with hood respirators include a Primair™ 100 Series hood with cotton neck seal for comfort; great for users with facial hair or when fit testing is not practical.

1-person systems have a ¾-HP pump and 50-ft. breathing hose. 2-person systems have a 1½-HP pump and 2 50-ft. breathing hoses.

Supplied Airline Assemblies—No. 16M255 converts Honeywell North full-facepiece respirators (7600, RU6500, 5400) or half-facepiece respirators (7700, RU8500, 5500) into a SAR through the cartridge connection port; expanding the use of existing respirators helps eliminate additional fit test requirements.

Nos. 16M253 and 16M254 are compatible with all Primair™ series hoods. No. 16M254 includes a PVC belt for easy decon cleaning.

Description	Mfr. Model	Item No.
SAR Packaged Systems		
1-Person, 7700 Series Half-Facepiece	APPC	**16M245**
1-Person, 7600 Series Full-Facepiece	APPA	**16M243**
2-Person, 7600 Series Full-Facepiece	APPF	**16M246**
1-Person, Primair™ Hood	APPB	**16M244**
2-Person, Primair™ Hood	APPG	**16M247**
Supplied Airline Assemblies		
Use with Honeywell North® Facepiece Respirators	CF2007	**16M255**
Use with Primair™ Hoods	CF1001	**16M253**
Use with Primair™ Hoods	CF1001D	**16M254**



Economy SAR
No. 6UNP5



Deluxe Welding Helmet SAR
No. 23UA37



Abrasive Blast Helmet SAR
No. 9LHY7

Supplied Air Respiratory (SAR) Packaged Systems

ALLEGRO INDUSTRIES

- NIOSH approved

AIR SHIELD SARS

Provide clean, continuous air flow for personal protection. Low-profile, lightweight air shield/helmet has quick-release suspension and antifog polycarbonate lens. Each system includes shield/helmet(s), ambient air pump, and 50-ft. breathing hose. 1-person systems have a ¾-HP pump and 1 shield. 2-person systems have a 1½-HP pump and 2 shields. Models with welding helmet have an autodarkening filter good for all welding processes including TIG and TIG pulsing.

Economy—Offer protection in body repair, chipping, grinding, and spray painting applications. Replaceable high-impact lens with antiscratch coating provides a wide field of distortion-free vision. Feature flip-up visor, headband ratchet assembly, cotton neck shroud, and chin guard. Welding helmets are made of thermoplastic resin with a shade 10 polycarbonate plate.

- Meet ANSI Z87.1-2003

Deluxe—Provide head, eye, face, and respiratory protection against hazardous airborne contaminants and flying debris in demanding industrial manufacturing environments. Feature fire-retardant, coated fabric neck cape. Welding helmets are made of glass-filled nylon with a variable-shade autodarkening lens, shade 9-13.

- Meet ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

ABRASIVE BLAST HELMET SAR

- Facepiece meets ANSI Z87.1

Nova 2000™ helmet features large wraparound lens for optimal vision and sound-deadening foam padding. System provides a portable air source with even air flow for 1 user and includes helmet, ¾-HP pump, and 50-ft. air hose.

Description	Mfr. Model	Item No.
Economy SARs		
Air Shields		
1-Person	9245-01	**6UNP5**
2-Person	9245-02	**6UNP6**
Welding Helmets		
1-Person	9246-01	**11V241**
2-Person	9246-02	**11V242**
Deluxe SARs		
Air Shields		
1-Person	9247-01	**23UA35**
2-Person	9247-02	**23UA36**
Welding Helmets		
1-Person	9248-01	**23UA37**
2-Person	9248-02	**23UA38**
Abrasive Blast Helmet SAR		
1-Person	9285-01	**9LHY7**



No. 4AFU6

MSA
The Safety Company

AirHawk II SCBA

- NIOSH approved

SCBAs include medium-size Advantage® 4000 series silicone full-facepiece with 4-pt. head harness, molded polycarbonate lens, cylinder, end-of-service time indicator, pressure regulator, carrier, harness, and belt. Backplate contours are designed for lumbar support and spine relief.

Cylinder Material	Duration	PSI	Mfr. Model	Item No.
AirHawk® II SCBA				
Aluminum	30 min.	2216	10095804	**4AFU6**
Carbon Fiber	30 min.	2216	10095806	**4AFU7**
Replacement Cylinders				
Carbon Fiber	30 min.	2216	807586-SP	**2YRE5**
Aluminum	30 min.	2216	809872-SP	**2YRE6**
Carbon Fiber	30 min.	4500	10127944-SP	**2YRE7**
Carbon Fiber	45 min.	4500	807570-SP	**8DGX8**
Carbon Fiber	60 min.	4500	10127946-SP	**2YRE8**



No. 14H450



No. 14H451

Honeywell

Cougar™ and PUMA™ SCBAs

- NIOSH approved

Feature a first-stage regulator with minimal moving parts and a low-profile second-stage regulator with first-breath-on activation. Mighty-Light® backpack provides a stable, secure fit and enables quick cylinder changes.

Cougar™ SCBAs—Designed for industrial users who need protection against environments that are immediately dangerous to life or health (IDLH). Include silicone rubber TwentyTwenty® Plus medium facepiece with 5-strap harness and skirt and easily removable exhalation valve, plus cylinder and bell low-air alarm.

PUMA™ SCBA—Designed for users who wear glasses or are hard to fit with a conventional facepiece. The apparatus comes with a one-size-fits-all hood made of Challenge® NXT material with medium nosecup, flexible neck seal, and sealed FEP lens; cylinder; and plain whistle low-air alarm.

Cylinder Material	Duration	PSI	Mfr. Model	Item No.
Cougar™				
Aluminum	30 min.	2216	888888	**14H450**
Carbon Fiber	60 min.	4500	555555	**14H449**
PUMA™				
Aluminum	30 min.	2216	777777	**14H451**
Replacement Cylinders				
Aluminum	30 min.	2216	915140	**16N402**
Carbon Fiber	60 min.	4500	917160	**16N403**



No. 1AAK9

Honeywell
NORTH

Mouthbit Emergency Escape Respirators

Designed for emergency escape from non-IDLH contaminated atmospheres. The optional Carrying Bag No. 1AAL1 has belt loops so you can keep your respirator close at hand for quick access.

Description	Used For	Mfr. Model	Item No.
Escape Respirators	Acid Gas	7902	**4GM24**
	Ammonia	7904	**1AAK9**
Carrying Bag		79BAG	**1AAL1**



No. 1LYP1

Honeywell
NORTH

CBRN Emergency Escape Hood

Clear polyurethane lens and hood with neck seal, dual cartridges, and thermo-plastic elastomeric mask. NIOSH approved CAP 2 for minimum of 30 minutes of protection for escape from non-IDLH atmospheres. Universal size.

Description	Mfr. Model	Item No.
CBRN Emergency Escape Respirator Hood	ER2000CBRN	**1LYP1**
Carrying Bag	ERBAG	**1LYP2**
Training Kit Includes (2) Cartridge Labels and Instructions	ERTRAIN	**1LYN9**



MSA
The Safety Company

Emergency Breathing Apparatus

- NIOSH approved

TransAire® units include a filled aluminum cylinder, yellow nylon carrier, 30" black rubber hood tube, and universal-size clear polyurethane tube assembly.

Escape Duration (min.)	Flow Rate	PSI	Mfr. Model	Item No.
5 min.	40Lpm	2216	10008292	**1DKR8**
10 min.	40Lpm	3000	10008293	**1DKR9**



No. 2GWL5



No. 5LGH9


No. 3NPZ3


No. 5LGJ0



No. 1ECB7

Respiratory Equipment Storage

ALLEGRO INDUSTRIES

SCBA Wall Cabinets—Corrosion-resistant ABS construction cabinets protect respirators from harsh elements. Include viewing window, adjustable shelf, and an SCBA cylinder bracket. No. 2GWL5 does not include mounting hardware. No. 5LGH9 includes 2 universal mounting brackets.

SCBA Brackets—Mount to wall and allow easy access to SCBA.

EBA Storage Cabinet—Lightweight wall case is designed to hold up to two 5- or 10-min. EBAs and protect equipment from dust, moisture, and plant environments. Comer mountable.

PAPR Storage Case—Keeps PAPRs contaminant-free; can be stored without disassembling breathing tube. 2 windows allow quick identification of contents. Pass-through allows PAPR to charge while stored.

Description	Dim. (H x W x D)	Color	Mfr. Model	Item No.
SCBA Wall Cabinet, Holds 1 SCBA	32½" x 20" x13"	Yellow/Black	4100	**2GWL5**
SCBA Wall Cabinet, Holds 2 SCBAs	32" x 34" x 14"	Hi-Vis Green	4350	**5LGH9**
SCBA Bracket Fits 30-min. HP	27" x 12" x 12"	Yellow	4111-05	**3NPZ3**
SCBA Bracket Fits 30-min. LP and 45-min HP	27" x 12" x 12"	Yellow	4111-06	**3NPZ4**
SCBA Bracket Fits 60-min. HP	27" x 12" x 12"	Yellow	4111-07	**3NPZ5**
EBA Storage Cabinet	21" x 14" x 10"	Hi-Vis Green	4550	**5LGJ0**
PAPR Storage Case	32½" x 20" x 13"	Yellow/Black	4100-P	**1ECB7**



No. 415H98

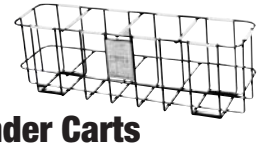
Honeywell

AC4000 Air Cylinder Carts

Easy-to-maneuver carts have a lightweight aluminum frame and can transport 2 high-pressure or 2 low-pressure air cylinders. Help provide a continuous supply of breathing air for up to 4 users. Models feature dual hose hangers for organized airline storage, a low pressure alarm, whistle alarm, and a telescopic handle.

Description	Overall Dim.	Mfr. Model	Item No.
Air Cart with Hansen Fittings	21" L x 17½" W x 36" D	400010H	**415H98**
Air Cart with Schrader Fittings		400010S	**415H99**


No. 4EDZ5


No. 4EDZ8

Air Cylinder Carts and Storage Rack

AIR SYSTEMS INTERNATIONAL

Air Cylinder Carts—Feature low-pressure alarm, adjustable pressure regulator, cylinder whips with check valves, rear hose rack, and 4 cylinder straps. Constructed of black powder-coated steel with fold-down handle for storage and 8" semipneumatic tires. No. 4EDZ4 includes CGA-346/347 universal cylinder connections with hand-tight knobs. No. 4EDZ5 includes CGA-346 wrench-tight cylinder connections.

Air Cylinder Storage Rack—Powder-coated steel wire rack holds any size cylinder up to 7¾" dia.

Description	Mfr. Model	Item No.
Air Cylinder Carts		
Holds (2) 60-min. High-Pressure, 4500 psi Cylinders	MP-4H	**4EDZ4**
Holds (2) 30-min. Low-Pressure, 2400 psi Cylinders	MP-2L	**4EDZ5**
Air Cylinder Storage Rack		
Holds 4 Cylinders	TR-4	**4EDZ8**


No. 25F568


No. 25F571


No. 25F579


No. 25F577


No. 25F575

Condor ★ WESTWARD

PPE Gear and Duffle Bags

Lightweight bags store and transport respiratory and fall-protection equipment and other gear. Polyester fabric resists shrinking, stretching, and mildew.

Description	Dim./Cap.	Color	Brand	Item No.
Respirator Storage Bags with Hook-in-Loop Closure				
Waist Pack	6"H x 7¼"W x 3½"D	Black	Condor	**25F568**
Gear Bag with Belt Loop	6¾"H x 9"W x 3½"D	Black	Condor	**25F570**
Gear Bag with Belt Loop	8¼"H x 10"W x 4⅛"D	Black	Condor	**25F569**
Gear Bag with Belt Loop	10"H x 9½"W x 4¼"D	Black	Condor	**25F571**
Gear Bags with Drawstring Closure				
Unlined with Web Handle	950 cu. in.	Black	Westward	**25F579**
Fleece-Lined with Spring Loaded Clasp	650 cu. in.	Red	Condor	**25F567**
Gear Bags with Zipper Closure				
Adjustable Shoulder Strap and 2 Ventilated Side Pockets	1440 cu. in.	Black/Red/Silver	Westward	**25F577**
Duffle Bags with Zipper Closure				
Removable Shoulder Strap	2600 cu. in.	Black	Westward	**25F573**
Removable Shoulder Strap	6300 cu. in.	Red	Westward	**25F575**

Qualitative Fit Test Kits for Half- and Full-Facepiece Respirators

3M™—Use with any particulate or gas/vapor respirator with particulate filters. Kits include: hood and collar assembly, 2 nebulizers with replacement inserts, sensitivity solution, and fit test solution. Saccharin Kit No. 1CD47 adds an order form for additional training materials and carrying case.

Note: Must use particulate filters on gas/vapor respirators during fit tests.

Allegro®—Kit Nos. 3PPN5 and 3PRG2 include: polycoated hood, 2 nebulizers, sensitivity and fit test solutions, and instructions. Kit No. 8ZAA8 includes: 6 irritant smoke tubes, aspirator bulb, smoke tube opener, and carrying pouch. Kit No. 3PRF9 includes: smoke fit tube pump, 6 smoke tubes, and instructions. Kit No. 3PRF6 includes: fit test tent, jars, testing solution, paper towels, disposable bags, and storage case.

Honeywell North—Kit No. 4GM20 requires use of P100 filter. Includes: 6 smoke tubes, smoke tube bulb, tube breaker, 20 refresher wipe pads, and a training video. Kit No. 5T388 requires respirators equipped with organic vapor cartridge. Kit includes: 2 vials and a test enclosure.

MSA®—Kits include: test hood, 2 nebulizers with replacement inserts, sensitivity solution, fit test solution, and a training video.



No. 4JG31

Description	Mfr. Model	Item No.
Fit Test Kits		
3M™		
Bitrex	FT-30	**4JG31**
Saccharin	FT-10	**1CD80**
Saccharin with Carrying Case	FT-20	**1CD47**
Allegro®		
Bitrex	2041	**3PRG2**
Saccharin	2040	**3PPN5**
Irritant Smoke, Standard	2050	**8ZAA8**
Irritant Smoke, Deluxe	2055	**3PRF9**
Isoamyl Acetate	0202	**3PRF6**
Honeywell		
Irritant Smoke, Deluxe	770040	**4GM20**
Isoamyl Acetate	193140	**5T388**
MSA®		
Saccharin	697287	**4LR26**
Bitrex	697444	**10X309**

Description	Mfr. Model	Item No.
Replacement Components and Accessories		
3M™		
Bitrex, 55mL	FT-32	**1UKH7**
Bitrex (Sensitivity), 55mL	FT-31	**1UKH6**
Saccharin, 55mL	FT-12	**1UKH5**
Saccharin (Sensitivity), 55mL	FT-11	**1UKH4**
Allegro®		
Saccharin (Test), 2.5mL, Pkg. of 6	2040-12K	**3PPN6**
Saccharin (Sensitivity), 2.5mL, Pkg. of 6	2040-11K	**3PPN7**
Bitrex (Test), 2.5mL, Pkg. of 6	2041-12K	**3PRG3**
Bitrex (Sensitivity), 2.5mL, Pkg. of 6	2041-11K	**3PRG4**
Fit Check Ampules, Pkg. of 10	0201	**3PPR1**
Honeywell		
Irritant Smoke, Pkg. of 10	770046	**16M258**
MSA®		
Adapter for Advantage® Series	10056424	**5KB72**



No. 3PPN5



GA GRAINGER APPROVED

No. 30E982

Respirator Storage Bags

Protect respirators from contaminants. Reusable.

Description	Item No.
PVC Storage Bag, 16" x 14"	**30E982**



No. 22PN88



No. 9ACT3

Condor

Paint Spray Sock

Stretch knit material covers head to protect from overspray.

Size	Item No.	Pkg. Qty.
Universal	**46W162**	12



Condor Honeywell NORTH 3M ALLEGRO INDUSTRIES

Respirator Cleaning Accessories

Respirator Cleaning Wipes—Individually wrapped towelettes are a quick and easy way to clean facepiece respirators.

Respirator Cleaning Kits—Kit No. 3NPY5 contains ninety ½-oz. packets of water soluble cleaner, air bulb, bucket, brush, and 100 sterile storage bags and seals. Kit No. 6UNR1 has the same features as No. 3NPY5 with the addition of a concentrated, EPA-registered 1-gal. liquid disinfectant soap.

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Respirator Cleaning Wipes				
5" x 8" Wipe	Condor	—	**22PN88**	100
5" x 8" Wipe, Alcohol-Free	Condor	—	**22PN89**	100
5" x 7" Wipe	Honeywell	7003	**4T555**	100
8" x 10" Wipe, Alcohol-Free	3M	504	**1CD51**	100
Respirator Cleaning Kits and Components				
Water Soluble Cleaner Packet Kit	Allegro	4001	**3NPY5**	1
Liquid Cleaner Concentrate Kit	Allegro	4002	**6UNR1**	1
Replacement Water Soluble Cleaner Packets, ½ oz. for No. 3NPY5	Allegro	4001-02	**9ACT3**	90

Gas Abbreviations

- Ammonia: NH_3
- Carbon dioxide: CO_2
- Carbon monoxide: CO
- Chlorine: Cl_2
- Chlorine dioxide: ClO_2
- Combustible: LEL
- Hydrogen: H_2
- Hydrogen cyanide: HCN
- Hydrogen sulfide: H_2S
- Iridium: IR
- Isobutylene: C_4H_8
- Methane: CH_4
- Nitrogen oxide: NO_2
- Oxygen: O_2
- Pentane: C_5H_{12}
- Phosphine: PH_3
- Sulfur dioxide: SO_2

iNet® Gas Detection Service

iNet helps you manage your portable gas detection program while having access to the tools and reports that show how your equipment is being used and what it's detecting.

You'll get:

- Expert help when you need it
- A safer workplace
- Cost savings

To find out more about how the iNet Gas Detection Service works and how to get started, go to **grainger.com/iNetService**



Ventis™ Pro5 with Integral Sampling Pump



Ventis™ Pro4

Ventis Pro Series Multi-Gas Detectors

INDUSTRIAL SCIENTIFIC

- 95dB audible, visual, and vibrating alarms
- "Man down" alarm and dedicated panic button
- IP68 rated protection against dust and water damage
- iNet® and DSX™ Docking Station compatible

Description	Housing Color	Battery Life	Mfr. Model	Item No.
Ventis™ Pro5 with LENS™ Wireless				
LEL, CO, H_2S, SO_2, O_2	Orange	12 hr.	VP5-KJ431101111	**53DH08**
Ventis™ Pro5 with LENS™ Wireless and Integral Sampling Pump				
LEL, CO, H_2S, SO_2, O_2	Orange	18 hr.	VP5-KJ532111111	**53DH07**
LEL, CO, H_2S, NH_3, O_2	Black	18 hr.	VP5-KJ632110111	**53DH09**
LEL, CO_2/IR CO, H_2S, O_2	Black	32 hr.	VP5-U1232110111	**53DH10**
LEL, CO_2/IR, CO, NH_3, O_2	Orange	32 hr.	VP5-U1632111111	**53DH11**
Ventis™ Pro4 with LENS™ Wireless				
LEL, CO, H_2S, O_2	Orange	12 hr.	VP4-K1231101111	**53DH12**
LEL, SO_2, H_2S, O_2	Orange	12 hr.	VP4-K5231101111	**53DH14**
LEL, CO, NO_2, O_2	Orange	12 hr.	VP4-K1431101111	**53DH15**
LEL, CO, HCN, O_2	Orange	12 hr.	VP4-K1B31101111	**53DH16**
Ventis™ Pro4 with LENS™ Wireless and Integral Sampling Pump				
LEL, CO, H_2S, O_2	Black	18 hr.	VP4-K1232110111	**53DH13**
LEL, CO, HCN, O_2	Orange	18 hr.	VP4-K1B32111111	**53DH17**

Description	Sensor Range	Mfr. Model	Item No.
Replacement Sensors			
H_2S	0 to 500 ppm	17155304-2	**49JZ94**
O_2	0 to 30%	17155304-3	**49JZ98**
LEL (Pentane)	0 to 100%	17155304-K	**49JZ95**
LEL (Methane)	0 to 100%	17155304-L	**49JZ97**
CH_4	0 to 5%	17155304-M	**49JZ96**
CO	0 to 2000 ppm	17155306-1	**49JZ91**
H_2S Series Six	0 to 500 ppm	17155306-2	**49JZ93**
NO_2	0 to 150 ppm	17155306-4	**49JZ92**
SO_2	0 to 150 ppm	17155306-5	**49JZ89**
HCN	0 to 30 ppm	17155306-B	**49JZ88**
CO/H_2 Low	0 to 1000 ppm	17155306-G	**49JZ90**

Highly adaptable devices not only monitor multiple gases at once, but also feature streamlined messaging capabilities to help users respond effectively to hazards. The rugged polycarbonate housing with protective rubber overmold has reinforced high-contact areas to help prevent wear from friction, plus a raised plastic rail to help protect sensors when the instrument is face-down.

Flexible interface with customizable text can keep onscreen messaging as simple as "EVACUATE" or "VENTILATE," to help reduce nuisance alarms and false evacuations. The backlit liquid crystal display can also show full-screen alarms that let users identify the source and type of hazard in emergencies.

LENS™ Wireless technology lets team members receive readings and alarms from peers' monitors for quick man-down, panic, or gas hazard response.

iAssign™ tagging lets you track user exposure and site measurement data, even when different Ventis Pro Series gas monitors are used from day to day.

The monitors can be used for personal protection, or order with pump for confined-space applications. Sensor options include flexible slot positions to adapt to a range of applications.

Note: Ventis™ Pro series use the same DSX™ Docking Stations and accessories as the Ventis MX4 Multi-Gas Detectors; find them on page 1777.

Radius™ BZ1 Area Monitors with LENS™ Wireless

INDUSTRIAL SCIENTIFIC



No. 52HN76

- 108dB audible and gas/non-gas visual alarms
- Multiple sensor options, including PID, to detect up to 7 gases
- iNet® and DSX™ Docking Station compatible

Worksite gas hazard monitors are engineered for long-lasting, easy-to-operate detection and protection. The modular design allows for smaller instrument inventories and enhanced uptime in the field. Text-based configuration and navigation simplifies setup and use.

Radius BZ1 Area Monitors—Preconfigured LENS™ Wireless networking connects devices at turn-on, for instant gas readings that can help your team react quickly to emergencies.

- Include SafeCore™ Module with DualSense® Technology

SafeCore™ Modules and Radius BZ1 Base—Proprietary, interchangeable SafeCore Modules house critical tech including sensors, software, wireless, and pumps (on select models). Smart sensors are positioned face-down in the modules to help reduce false alarms from weather conditions.

Modules fit into the durable, weather-resistant Radius Base, which has built-in audio and visual alarms designed to capture attention even in high-noise environments. Swap out modules to switch sensor setups or change from a nonpumped module to a pumped one for confined-space sampling. The large display shows customizable alarm messages such as "EVACUATE" or "VENTILATE."

DualSense® Technology employs 2 sensors to detect the same gas, to help increase worker safety.

DSX™ Docking Stations—Designed to dock a SafeCore Module for data downloads, bump tests, calibration, and settings changes.

Description	Mfr. Model	Item No.
Radius™ BZ1 Area Monitors with LENS™ Wireless		
LEL, O_2	BZ1-K003000111	**52HN96**
LEL, H_2S, O_2	BZ1-K023000111	**52HN92**
LEL, CO, H_2S, O_2	BZ1-K123000111	**52HN76**
LEL, CO, H_2S, O_2 PID	BZ1-K1230R0111	**52HN88**
LEL, CO, H_2S, O_2, SO_2	BZ1-K123500111	**52HN84**
LEL, CO, H_2S, O_2, SO_2 PID	BZ1-K1235R0111	**52HN80**
Radius™ BZ1 Area Monitors with LENS™ Wireless and Integral Sampling Pump		
LEL, O_2	BZ1-K003001111	**52HN98**
LEL, H_2S, O_2	BZ1-K023001111	**52HN94**
LEL, CO, H_2S, O_2	BZ1-K123001111	**52HN78**
LEL, CO, H_2S, O_2 PID	BZ1-K123501111	**52HN86**
LEL, CO, H_2S, O_2, SO_2	BZ1-K1230R1111	**52HN90**
LEL, CO, H_2S, O_2, SO_2 PID	BZ1-K1235R1111	**52HN82**
SafeCore™ Modules		
LEL, CO, H_2S, O_2	SC-K123000111	**52HP01**
LEL, CO, H_2S, O_2, SO_2, PID	SC-K1235R0111	**52HP05**
LEL, CO, H_2S, O_2	SC-K123001111	**52HP03**
LEL, CO, H_2S, O_2, SO_2, PID	SC-K1235R1111	**52HP07**
Radius™ BZ1 Base		
Without SafeCore™ Module (Sold Separately)	18109431-11	**52HP54**
DSX™ Docking Stations		
i Cloud-Connected with 6 Gas Inlet Ports	18109396-161	**52HP52**
Standalone with 6 Gas Inlet Ports	18109396-061	**52HP51**
i Cloud-Connected with 3 Gas Inlet Ports	18109396-131	**52HP49**
Standalone with 3 Gas Inlet Ports	18109396-031	**52HP48**

Description	Sensor Range	Mfr. Model	Item No.
Replacement Sensors			
CO	0 to 1500 ppm	17156650-1	**52HP24**
CO, H_2 Low	0 to 1000 ppm	17156650-G	**52HP33**
CO/H_2S	0 to 1500 ppm	17156650-J	**52HP35**
H_2S	0 to 500 ppm	17156650-2	**52HP25**
O_2	0 to 30 ppm	17156650-3	**52HP26**
NO_2	0 to 150 ppm	17156650-4	**52HP27**
SO_2	0 to 150 ppm	17156650-5	**52HP28**
NH_3	0 to 500 ppm	17156650-6	**52HP29**
Cl_2	0 to 50 ppm	17156650-7	**52HP30**
H_2	0 to 2000 ppm	17156650-C	**52HP32**
C_5/H_{12}	0 to 100 ppm	17156650-K	**52HP36**

Find Gas Abbreviation information on page 1776.



No. 6XFL0



V-Cal™ Calibration Station
No. 6UAV4

INDUSTRIAL SCIENTIFIC

Ventis™ MX4 Multi-Gas Detectors

- 95dB audible, bright LED and vibrating alarms
- DSX™ Docking Station and iNet® compatible
- Backlit LCD

True portability with multi-gas detection in single-gas size. Configured for non-pump applications or with an integral pump for sample draw applications. Available with a tough, safety orange overmold for visibility of the instrument in dark environments. Detectors with diffusion include calibration cup. Detectors with pump include calibration tubing and sample tubing. All detectors include desktop charger and rechargeable batteries.

DSX™ Docking Stations—Maintenance stations provide easy gas detector bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected No. 44ZC35 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone No. 44ZC37 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

V-Cal™ Calibration Stations—Allow for quick and easy calibration or function (bump) testing of the monitor. Stand-alone operation; PC not required.

Description	Mfr. Model	Item No.
Detectors with Diffusion		
LEL, O_2, CO, H_2S, Lithium-Ion/12hr., Black	VTS-K1231100101	6XFK9
LEL, O_2, CO, H_2S, Lithium-Ion/12 hr., Orange	VTS-K1231101101	6XFL0
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr., Black	VTS-K1232100101	6UAU6
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr., Orange	VTS-K1232101101	6UAU7
LEL, O_2 SO_2, H_2S, Lithium-Ion/20 hr., Black	VTS-K5232100101	6UAU8
LEL, O_2 SO_2, H_2S, Lithium-Ion/20 hr., Orange	VTS-K5232101101	6UAU9
Detectors with Pump		
LEL, SO_2, H_2S, O_2, Lithium-Ion/20 hr., Black	VTS-K5232110101	6UAV0
LEL, SO_2, H_2S, O_2, Lithium-Ion/20 hr., Orange	VTS-K5232111101	6UAV1
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr., Black	VTS-K1232110101	6UAU4
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr., Orange	VTS-K1232111101	6UAU5
Replacement Sensors		
O_2	17134461	5JNL5
H_2S	17134479	5JNL6
CO	17134487	5JNL7
LEL, CH_4	17134495	5JNL8
NO_2	17134503	6UAX1
SO_2	17143595	6UAX2
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109327-131	44ZC35
Standalone with 3 Gas Inlet Ports	18109327-031	44ZC37
V-Cal™ Calibration Stations for Detectors with Diffusion		
Single Unit	18108631-00	6UAV4
V-Cal™ Calibration Stations for Detectors with Pump		
Single Unit	18108631-10	6UAV5
Accessories		
Replacement Battery Kit, AA Alkaline/8 hr., Black	VTSB-301	6UAV9
Replacement Battery Kit, AA Alkaline/8 hr., Orange	VTSB-311	6UAW0
Replacement Battery Pack, Li-Ion/12 hr., Black	VTSB-101	6UAW1
Replacement Battery Pack, Li-Ion/12 hr., Orange	VTSB-111	6UAW2
Replacement Battery Pack, Extended Range Li-Ion/12 hr. With Pump / 20 hr. Without Pump, Black	VTSB-201	6UAW3
Replacement Battery Pack, Extended Range Li-Ion/12 hr. With Pump / 20 hr. Without Pump, Orange	VTSB-211	6UAW4
Single Unit Battery Charger	18108191	6UAW5
Single Unit Charger w/Datalink Cable	18108209	6UAW6
Single Unit Automotive Vehicle Battery Charger, 12VDC	18108651	6UAW7
Single Unit Truck Mount w/12VDC Adapter Vehicle Battery Charger	18108652	6UAW8
Single Unit Truck Mount, Hard Wired Vehicle Battery Charger, 12VDC	18108653	6UAW9
6-Unit Battery Charger	18108650-0	6UAX0



Detector
No. 1TAL1



Confined Space Kit
No. 1TAW3

INDUSTRIAL SCIENTIFIC

iBrid™ MX6 Multi-Gas Detectors and Confined-Space Kits

- 95dB audible alarm
- DSX™ Docking Station and iNet® compatible

Readings are shown on a high-visibility full-graphic LCD. Feature 5-way navigation button and concussionproof overmold housing. Each includes calibration cup with tubing, belt clip, carrying case, and desktop charger.

Confined-Space Kits—Contain detector, sampling pump with 10 ft. of tubing, Li-ion 24-hr. battery, single unit charger, spare alkaline battery pack, calibration cup with tubing, calibration gas and regulator, and carrying case.

DSX™ Docking Stations—Gas detector maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected No. 44ZC38 can automatically track bump test and calibration schedules, and send email alerts and notifications about worker exposure and instrument use and service needs.

Standalone No. 44ZC42 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Mfr. Model	Item No.
Detectors with Diffusion		
LEL, O_2, CO, H_2S, Alkaline/10-1/2 hr.	MX6-K1230301	1TAL1
LEL, O_2, CO, Alkaline/10-1/2 hr.	MX6-K1030301	1TAL3
LEL, O_2, H_2S, Alkaline/10-1/2 hr.	MX6-K0230301	1TAL2
LEL, O_2, Alkaline/10-1/2 hr.	MX6-K0030301	1TAL4
Detectors with Pump		
LEL, O_2, CO, H_2S, PID, Lithium-Ion/36 hr.	MX6-K123R211	1TAL6
LEL, O_2, CO, CO_2, Lithium-Ion/36 hr.	MX6-R1030211	1TAL7
Confined-Space Kits		
LEL, O_2, CO, H_2S, PID, Lithium-Ion/36 hr.	MX6KIT-K123R211	1TAW3
Replacement Sensors		
LEL	17124975-K	1TAN2
O_2	17124975-3	1TAN1
H_2S	17124975-2	1TAL9
CO	17124975-1	1TAL8
CH_4, IR	17124975-N	1TAN4
CO_2, IR	17124975-Q	1TAN5
VOC, PID	17124975-R	1TAN3
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109329-131	44ZC38
Standalone with 3 Gas Inlet Ports	18109329-031	44ZC42
Accessories		
Motorized Sample Draw Pump	18106765	1TAT3
Charger w/Datalink Cable	18107094	1TAN9
Vehicle Battery Charger, 12VDC	18107011	1TAT1
5-Unit Battery Charger, 120VAC	18107136	1TAT2
Replacement Battery Kit, AA Alkaline, 10½ hr.	17131046-3	1TAN6
Replacement Battery Pack, Li-ion, 36 hr.	17131038-2	1TAN8



No. 46C109

Tango™ TX1 Single Gas Detectors

INDUSTRIAL SCIENTIFIC

- 100dB audible, visual, and vibrating alarms
- IP66/67 ingress protection
- DSX™ Docking Station and iNet® compatible

Detectors can be ordered as a carbon monoxide, hydrogen sulfide, sulfur dioxide, or nitrogen dioxide instrument. DualSense™ technology includes 2 of the same sensor for the detection of a single gas through a proprietary algorithm and displayed as a single reading to the user. Feature segment liquid crystal display and 2 button keypad. Top of case is designed with polycarbonate with a rubber overmold and the bottom is conductive polycarbonate. Replaceable lithium nonrechargeable battery provides 3-yr. run time.

Description	Mfr. Model	Item No.
Tango™ TX1 Gas Detectors		
CO	TX1-1	**46C108**
H_2S	TX1-2	**46C109**
NO_2	TX1-4	**46C110**
SO_2	TX1-5	**46C111**

DSX™ Docking Stations—Maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected No. 44ZC48 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone No. 44ZC43 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Mfr. Model	Item No.
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109330-131	**44ZC48**
Standalone with 3 Gas Inlet Ports	18109330-031	**44ZC43**
Replacement Battery		
Lithium Nonrechargable Battery	17154367	**46C112**



No. 6NE65

GasBadge® Pro Single-Gas Detectors

INDUSTRIAL SCIENTIFIC

- 95dB audible, visual, and vibrating alarms
- IP66/67 rating for water and dust ingress
- DSX™ Docking Station and iNet® compatible

Feature continuous event logging record of past 15 alarm events. Reusable unit with interchangeable sensors. Minimum 1-yr. data logging capacity. Lithium battery lasts 2600 hr.

GasBadge® Datalink—Connects via a graphic software package and USB PC connection. Allows download and viewing of alarm events.

Description	Mfr. Model	Item No.
Gas Detectors		
CO	18100060-1	**6NE64**
H_2S	18100060-2	**6NE63**
O_2	18100060-3	**6NE65**
Datalink		
Single Unit	18106260	**2PY62**

DSX™ Docking Stations—Maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data. Cloud-Connected No. 44ZC46 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone No. 44ZC32 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Mfr. Model	Item No.
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109331-131	**44ZC46**
Standalone with 3 Gas Inlet Ports	18109331-031	**44ZC32**
Replacement Sensors		
CO	17124983-1	**1TAY6**
H_2S	17124983-2	**1TAY7**
O_2	17124983-3	**1TAY8**



Calibration Check Gas Cylinders

INDUSTRIAL SCIENTIFIC

For calibration and maintenance of Industrial Scientific gas monitors. Certified component concentrations. Cylinders require regulator (sold separately). Kits include cylinders, regulator, and carrying case. Flow Regulator No. 2NXL2 attaches to cylinder to provide proper flow rate and indicates when it is empty.

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.
Calibration Gas Cylinders			
100 ppm CO, 18% O2, 25% LEL Pentane	34L	18109190	**36J508**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	34L	18109191	**36J509**
100 ppm CO, 2.5% Methane, 25 ppm H2S, 18% O2	58L	18109156	**36J475**
25 ppm NH_3	58L	18102151	**5HP31**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	58L	18109155	**36J474**
2.5% CH4	103L	18101378	**5HP20**
18% O2, 25% LEL Pentane	103L	18109173	**36J503**
20.9% Zero Grade O_2	103L	18101584	**5HP25**
50 ppm CO	103L	18102230	**5HP70**
100 ppm CO, 18% O2, 25% LEL Pentane	103L	18109165	**36J502**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	116L	18109157	**36J476**

Gas Type	Cylinder Size	Mfr. Model	Item No.
Calibration Gas Kits			
O_2, CO, H_2S, CH_4	58L	18102275	**5HP85**
O_2, H_2S, C_5H_{12}	58L	18102188	**5HP59**
O_2, CO, H_2S, C_5H_{12}	58L	18102189	**5HP60**
O_2, CO, C_5H_{12}	103L	18102269	**5HP82**

Description	Mfr. Model	Item No.
Gas Cylinder Regulators		
Regulator for 34L	18100933	**1VK90**
Demand Flow Regulator for 34L	18103564	**1VL26**
Demand Flow Regulator for 58/103 L	18102509	**1VL24**
Demand Flow Regulator for 34/58/103L with iGas® Pressure Switch	18105841	**2NXL2**

Find Gas Abbreviation information on page 1776.

Honeywell

BW GasAlertMicroClip XL Multi-Gas Detectors

Slim, compact units have concussionproof housing, easy-to use 1-button operation, and an easy-to-navigate interface. IntelliFlash™ feature provides continuous visual confirmation of detector operation and compliance. Include rechargeable lithium polymer battery, charging adapter, and calibration/test cap and hose.



No. 35HY03

Description	Black Housing Mfr. Model	Item No.	Yellow Housing Mfr. Model	Item No.
Detectors				
LEL, O_2, H_2S, CO	MCXL-XWHM-B-NA	**35HY03**	MCXL-XWHM-Y-NA	**35HY04**
LEL, O_2, H_2S	MCXL-XWH0-B-NA	**35HY07**	MCXL-XWH0-Y-NA	**35HY08**
LEL, O_2, CO	MCXL-XW0M-B-NA	**35HY05**	MCXL-XW0M-Y-NA	**35HY06**
LEL, O_2	MCXL-XW00-B-NA	**35HY17**	MCXL-XW00-Y-NA	**35HY18**
O_2, CO	MCXL-X00M-B-NA	**35HY13**	MCXL-X00M-Y-NA	**35HY14**

Description	Mfr. Model	Item No.
Replacement Sensors		
LEL	SR-W-MP75C	**33N517**
O2	SR-X2V	**5ZXG5**
H_2S	SR-H-MC	**9JEC7**
CO	SR-M-MC	**8VY13**
Accessories		
Manual Aspirator Pump Kit with 1 ft. Probe	MC-AS01	**9LE19**
Vehicle Battery Charger, 12VDC	GA-VPA1	**8PZM7**
Datalink Kit with Fleet Manager II Software	GA-USB1-IR	**9LNA2**

Honeywell

BW GasAlertMax XT II Multi-Gas Detectors

Detector—Features 1-button operation and motorized pump for remote sampling. Include rechargeable lithium polymer battery, charging adapter, quick-connect calibration hose, quick-connect sampling hose with particulate filer, and 5 spare pump filters.

Confined Space Kit—Includes GasAlertMax XT II Detector, IR connectivity kit, regulator, sampling probe, and calibration gas.



No. 6DMY7

Description	Mfr. Model	Item No.
Detectors		
LEL, O_2, CO, H_2S	XT-XWHM-Y-NA	**6DMY7**
Confined Space Kit		
O_2, LEL, H_2S, CO	XT-XWHM-Y-NA-CS	**23M807**
Replacement Sensors		
LEL	SR-W-MP75C	**33N517**
O2	SR-X2V	**5ZXG5**
CO	SR-M-MC	**8VY13**
H_2S	SR-H-MC	**9JEC7**
Accessories		
Carrying Case with Alligator Clip	GA-BXT	**8YPG0**
Vehicle Battery Charger, 12VDC	GA-VPA1	**8PZM7**
Datalink Kit with Fleet Manager II Software	GA-USB1-IR	**9LNA2**

BW GasAlertQuattro Multi-Gas Detectors

Honeywell

Easy-to-use 1-button operation with graphic LCD and easy-to-identify icons indicating operational data such as bump test and calibration status to ease onsite auditing. IntelliFlash™ feature provides continuous visual confirmation of detector operation and compliance. Rechargeable models include a rechargeable battery pack and wall charger. Alkaline models include a 3 AA alkaline battery pack.

Confined Space Kit—Includes detector, manual aspirator kit, IR connectivity kit, calibration cap, regulator, sampling probe, calibration gas, and rechargeable battery pack.



No. 5ZYY3

Description	Mfr. Model	Item No.
Detectors		
LEL, O_2, H_2S, CO	QT-XWHM-R-Y-NA	**5ZYY3**
LEL, O_2, H_2S, CO	QT-XWHM-A-Y-NA	**33N506**
Confined Space Kit		
LEL, O_2, H_2S, CO	QT-XWHM-R-Y-NA-CS	**5ZYY2**
Replacement Sensors		
(LEL) Combustible Gases	SR-W04-75C	**5ZXG4**
O2	SR-X2V	**5ZXG5**
H2S	SR-H04-SC	**5ZXG6**
Accessories		
Manual Aspirator Pump	QT-AS01	**5ZXG2**
Sampling Probe	GA-PROB1-1	**8WDY2**
Rechargable Battery Pack	QT-BAT-R01	**5ZXF9**

BW Clip Single-Gas Detectors

Honeywell

Compact, lightweight design features 1-button operation and 2 yr. continuous use without calibration, sensor replacement, or battery recharging/replacement. Extend the working life of detectors with the Hibernation Case, sold separately.



No. 36VM87

Description	Default Alarm Setpoints Low	High	Mfr. Model	Item No.
Detectors				
H_2S	10 ppm	15 ppm	BWC2-H	**36VM87**
H_2S	5 ppm	10 ppm	BWC2-H510	**41HG92**
H_2S	5 ppm	15 ppm	BWC2-H515	**41HG93**
O_2	19.5% vol.	23.5% vol.	BWC2-X	**41GJ22**
CO	35 ppm	200 ppm	BWC2-M	**41HG96**
CO	50 ppm	200 ppm	BWC2-M50200	**41HG97**
SO_2	5 ppm	10 ppm	BWC2-S	**41HG99**
SO_2	2 ppm	4 ppm	BWC2-S24	**41HH01**
Accessories				
Hibernation Case			CLIPHB-CASE	**36VN33**
Hard Hat Clip			GA-HC-1	**3UCD1**

BW GasAlertMicro 5 Series Multi-Gas Detectors

Honeywell

All models include specified sensor(s), concussionproof housing, data logging, calibration/test adapter and hose, rechargeable lithium polymer batteries, and charging adapter.



No. 33N505

Description	Mfr. Model	Item No.
Gas Detectors		
LEL, O_2, CO, H_2S	M5-XW0Y-R-P-D-Y-N-00	**33N505**
Replacement Sensors		
LEL	SR-W04	**3WRH1**
CO	PS-RM04H	**33N515**
CO, H_2S	D4-RHM04	**3WRG9**
Accessories		
Motorized Sample Draw Pump Kit	M5-PUMP	**33N481**
Sample Draw Pump with 1-ft. Probe	GA-AS02	**33N513**
Battery Charger	M5-C01	**33N499**
Vehicle Battery Charger, 12VDC	GA-V-CHRG4	**33N498**

BW GasAlert Extreme Single-Gas Detectors

Honeywell

Feature an easy On/Off operation, multi-language display, and data logging. Include concussionproof housing and calibration/test cap and hose.



No. 4KEE5

Description	Mfr. Model	Item No.
Detectors		
H_2S	GAXT-H-DL	**4KEE5**
CO	GAXT-M-DL	**4KEE6**
SO_2	GAXT-S-DL	**4KEE8**
Cl_2	GAXT-C-DL	**4KEE9**
NO_2	GAXT-D-DL	**4KEF2**
NH_3	GAXT-A-DL	**4KEF3**
ClO_2	GAXT-V-DL	**23M615**
Replacement Sensors		
H_2S	PS-RH04S	**4UDY6**
CO	SR-M04-SC	**5ZXG7**
SO_2	PS-RS04	**4KEF4**
Cl_2	PS-RC10	**4KEF5**
NO_2	PS-RD04	**8EMM4**
NH_3	SR-A04	**4KEF7**
Accessories		
Sample Draw Pump with 1-ft. Probe	GA-AS02	**33N513**
Carrying Case with Alligator Slip	GA-BALERT	**4KEF8**
Hard Hat Clip	GA-HC-1	**3UCD1**

Find Gas Abbreviation information on page 1776.



No. 2YA39

MSA The Safety Company

Altair® Single-Gas Detectors

- 95dB audible, visual, and vibrating alarms
- IP67 rating for dust and water ingress

2-yr. disposable unit features 1-button operation, bump test, and 25-alarm memory. Includes lithium battery.

Description	Mfr. Model	Item No.
Altair® Detectors		
O_2	10092523	**2YA41**
CO	10092522	**2YA39**
H_2S	10092521	**2YA40**



No. 2TEY1



No. 23YD97 (Gas Detector Sold Separately)

MSA The Safety Company

Calibration Check Gas Cylinders and Automated Test Stations

Calibration Gas Cylinders—Aluminum 500 psig cylinders contain sufficient gas for multiple MSA® instrument calibrations. Required regulator sold separately.

Automated Test Stations—Galaxy® GX2 stands provide simple, efficient gas detector testing, calibration, and charging. Compatible with detector data management systems.

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.	
Calibration Gas Cylinders				
100 ppm C_4H_8	34L	10048279	**2TEY3**	
15% O_2, 60 ppm CO, 20 ppm H_2S, 1.45% CH_4	34L	10048280	**2TEY1**	
15% O_2, 300 ppm CO, 10 ppm H_2S, 1.45% CH_4	34L	711058	**2TEY2**	
60 ppm CO, 20 ppm H_2S, 15% O_2, 1.45% CH_4, 2.5% CO_2	58L	10103262	**5EMR2**	
40 ppm H_2S	58L	467897	**4MD09**	*
15% O_2, 60 ppm CO, 20 ppm H_2S, 1.45% CH_4	58L	10045035	**6BU74**	*
15% O_2, 300 ppm CO, 10 ppm H_2S, 1.45% CH_4	58L	804770	**4LP28**	*
15% O_2, 60 ppm CO, 1.45% CH_4	100L	478191	**4LP25**	*
Calibration Kits				
Fixed-Flow Regulator 0.25 Lpm, Tubing, Adapter Fitting, and Fitted Case		10050984	**6RRC6**	
Demand-Flow Regulator, Tubing, Adapter Fitting, and Fitted Case		10050985	**6RRC7**	
Accessories				
Demand-Flow Regulator with Calibration Tubing and Adapter Fitting		710288	**4LP38**	
Fixed-Flow Regulator 0.25 Lpm		467895	**6BU75**	†
Cylinder Devalving Tool		711228	**6BU76**	
Preaddressed Recycling Box		711227	**6BU77**	
Automated Test Stations (Charging) For Use with Altair® 5X Galaxy® GX2				
4 Valve (For use with 1 to 4 Calibration Gas Cylinders)		10128625	**23YD97**	
1 Valve (For use with 1 Calibration Gas Cylinder)		10128626	**23YD98**	
Automated Test Stations (No-Charging) For Use with Altair® 5X Galaxy® GX2				
4 Valve (For use with 1 to 4 Calibration Gas Cylinders)		10128627	**23YD99**	
1 Valve (For use with 1 Calibration Gas Cylinder)		10128628	**23YE01**	

**** Reactive gases. † Can be used with chlorine and ammonia.***



No. 4LP18

MSA The Safety Company

Ventilation Smoke Tube Kit

Generates controlled smoke to help you see velocity, direction, and flow of slow-moving air currents. Includes aspirator bulb, 2 rubber plugs, and 6 smoke tubes.

Description	Mfr. Model	Item No.
Smoke Tube Kit	458481	**4LP18**
Replacement Tubes, Pkg. of 12	458480	**6BU78**



No. 20PG63

MSA The Safety Company

Altair® 2X and Altair® 2XP Single-Gas Detectors

- 95dB audible, visual, and vibrating alarms
- IP67 rating for dust and water ingress

The superior performance and long service life of XCell® sensor technology in a rugged rubberized armor housing offer enhanced wearer safety, compliance, and traceability, as well as drastically reduced total cost of ownership.

Altair® 2X—Speedy sensor response and recovery reduce gas consumption for calibration and gas bump tests.

Altair® 2XP—XCell® Pulse technology and simple flow check deliver a daily stand-alone bump test without specific calibration gas or accessories.

Description	Mfr. Model	Item No.
Altair® 2X		
CO	10153986	**20PG65**
Altair® 2XP		
H_2S-Pulse	10153984	**20PG63**
Replacement Sensor		
CO	10152603	**33RJ54**
H_2S-Pulse	10121227	**33RJ53**



No. 6RRA1

MSA The Safety Company

Altair® 5X Multi-Gas Detectors

- Audible (95+dB), visual, and vibrating alarms
- MotionAlert™ 30-sec. "man down" sensor

Rugged, datalogging portable detectors employ XCell® technology for faster performance and more than 4 yr. typical sensor life. Large buttons allow easy operation with gloved hands. Each includes calibration cap, tubing, and charger.

Altair® 5X—Integral pump for consistent flow. Nos. 44KE54 and 44KE55 measure gases simultaneously and detect VOCs. Kits Nos. 6RRA1, 6RRA0, 6RPZ9, 6RPZ8, and 45KE55 come with 10-ft. sampling line and 1-ft. probe.

- IP65 rating for dust and water ingress

Description	Mfr. Model	Item No.
Altair® 5X Detectors with Color LCD		
LEL, O_2, CO, H_2S, SO_2, Lithium-Ion/20 hr.	10116929	**6RRA1**
LEL, O_2, CO, H_2S, Rechargeable Lithium-Ion/20 hr.	10116928	**6RRA0**
Altair® 5X Detectors with Monochrome LCD		
LEL, O_2, CO, H_2S, SO_2, Lithium-Ion/20 hr.	10116927	**6RPZ9**
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr.	10116926	**6RPZ8**
LEL, O_2, CO, H_2S, SO_2, Lithium-Ion/20 hr.	10116925	**6RPZ7**
LEL, O_2, CO, H_2S, Lithium-Ion/20 hr.	10116924	**6RPZ6**
Altair® 5X Detectors with PID and Monochrome LCD		
LEL, O_2, CO, H_2S, PID, /13 hr.	10165445	**45KE54**
LEL, O_2, CO, H_2S, PID, Lithium-Ion/13 hr.	10165446	**45KE55**
Replacement Sensors		
LEL	10106722	**5ERK9**
O_2	10106729	**5ERL3**
CO, H_2S	10106725	**5ERL2**
Accessories		
Sample Draw Pump Probe, 1 ft.	10042621	**5EMP3**
Sampling Line, 10 ft.	10040665	**5EMP1**
Silicone Sampling Line, 25 ft.	10040664	**5EMP2**
Lithium-Ion Replacement Battery Pack	10114835	**6RRA8**
AA Alkaline Replacement Battery Kit	10114837	**6RRA9**
Vehicle Battery Charger	10099397	**6RRA7**
USB Adapter	10082834	**2TEY4**

Dräger

X-am® 5600 Multi-Gas Detectors

6-gas capacity detector is offered in dual and single sensor configurations, with specified gas sensors. Fast, durable infrared sensors last up to 8 yr., and need calibration only every 12 mo. Select units have an IR-Ex sensor that eliminates the need for catalytic Ex sensors.

Note: Replacement sensors and accessories are available on Grainger.com®; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detectors—Small, robust instruments with simple 2-button control detect and log oxygen and explosive, combustible, and toxic gases and vapors. Large LCD shows all readings and can display peaks, STELs, and TWAs.

An excellent personal monitor, it can be combined with an X-zone® 5500 (sold separately, this page) to monitor entire areas.

- Visual alarm
- Suitable for use in Ex zone 0 explosive atmospheres
- X-zone® 5000 series compatible



No. 36E613

Accessories—Time-saving Bump Test Station, with pressure gauge and regulator, is for use with X-am 5600 and X-am 5000 detectors. Remote Sampling Pump reaches up to 66 ft. Includes locking dust/water stop filter, shoulder strap, and batteries.

Description	Mfr. Model	Item No.
Detectors with NiMH Battery and Charger		
IR-EX/O_2/H_2S/HCN	4542116	**36E612**
Detectors with Alkaline Batteries		
IR-Dual Ex/O_2/SO_2/Dual H_2S/CO	4542119	**36E613**
Accessories		
Bump Test Station	8319131	**36E910**
Remote Sampling Pump	8319400	**36D978**
Dust/Water Stop Filter For No. 36D978	4543759	**36F201**

Dräger

X-zone® 5500 Wireless Gas Monitor

- Visual and audible (adjustable volume) alarms
- Suitable for use in Ex zone 0 explosive atmospheres

Stand-alone, easily transported monitor helps provide a safe environment in hazardous areas. Control and sensing are provided by an X-am® 5600 or X-am 5000 detector, with appropriate sensors (sold separately, this page). Multiple units can be employed to define a wireless extended monitoring fence line. Includes diffusion cap, pump, and battery.



No. 21EP34

Description	Mfr. Model	Item No.
Wireless Gas Monitor with 24 Ah Battery	8324825	**21EP34**
Plug-In Charger for No. 21EP34	8320749	**21EP39**

Dräger

Pac® 7000 Single-Gas Detectors

Miniature XXS sensors offer fast reaction times and 5- to 6-yr. expected service life. Impact-resistant housing helps protect against corrosive chemicals and radio interference. Battery life is 2880 hr. for O_2, 5760 hr. for H_2S and CO. Detector life is unlimited. Offered in select configurations.

Note: Replacement sensors and accessories are available on Grainger.com®; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detector—Small, robust personal monitors have user-friendly features including a large LCD with backlight and 1-handed operation, even when wearing gloves. Adjustable intervals for tests and calibration, reminders, and "out of order" message if overdue or failed. 120-hr. data logger has date and time stamp.

- Visual, audible, and vibrating alarms
- Adjustable TWA and STEL alarms
- IP68 dust and water ingress protection



No. 36D918

Accessories—Bump Test Station quickly checks instruments and sensors, and provides automatic calibration in case of unsuccessful tests.

Description	Sensor Range	Mfr. Model	Item No.
Detectors			
CO_2	0 to 5 Vol %	8318975	**36D915**
CO	0 to 2000 ppm	8318970	**36D914**
HCN	0 to 50 ppm	8318973	**36D917**
H_2S	0 to 100 ppm	8318971	**36D916**
NH_3	0 to 300 ppm	8318979	**36D918**
O_2	0 to 25 Vol %	8318972	**36D921**
SO_2	0 to 100 ppm	8318976	**36D923**
Accessories			
Bump Test Station		8317410	**36E911**
Leather Carrying Case with Belt Loop		4543822	**36F132**

Dräger

X-am® 5000 and 2500 Multi-Gas Detectors

Extended-life monitors can be used with multiple sensors to monitor explosion hazards.

Note: Replacement sensors and accessories are available on Grainger.com®; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detectors—Lightweight and easy-to-operate instruments show all readings at once on their large LCDs. They store peak values, which are easily reset.

- Visual alarm
- Suitable for use in explosion zone 0 areas
- IP67 water- and dust-resistant
- X-dock® compatible (sold separately, available on Grainger.com®)



No. 36F324

Accessories—Time-saving Bump Test Station, with pressure gauge and regulator, is for use with X-am 5600 and X-am 5000 detectors. Remote Sampling Pump reaches up to 66 ft. Includes locking dust/water stop filter, shoulder strap, and batteries.

Description	Mfr. Model	Item No.
X-am® 5000 Detectors		
CH4, O_2, CO, H_2S	4543752	**36E604**
CH4, O_2, CO	4543753	**36E602**
X-am® 2500 Detectors		
CH4, O_2, CO, H_2S	4542261	**36F324**
CH4, H_2S	4542285	**36F323**
Accessories		
Bump Test Station	8319131	**36E910**
Remote Sampling Pump	8319400	**36D978**
Dust/Water Stop Filter For No. 36D978	4543759	**36F201**



Detector Tubes

accuro® Pump Kit
No. 3WZF2

Dräger

Gas Detection Tubes and Tube Pumps

Tubes have a wide diameter and well-spaced graduations that are easy to read and help provide decisive measurement results.

Pump Kits include pump, tube opener, spare parts kit, and Allen wrench. No. 3YWY6 also includes a pkg. of 10 rubber caps.

Detects For	Measuring Range	Mfr. Model	Item No.	Pkg. Qty.
Detector Tubes				
Acetic Acid	5 to 80 ppm	6722101	**29XM34**	10
Air Current Smoke Tube	N/A	CH25301	**29XP01**	10
Ammonia	0.25 to 3 ppm	8101711	**29XM41**	10
Ammonia	0.05 to 10% Vol.	CH31901	**29XM42**	10
Ammonia	2 to 30 ppm	6733231	**29XM43**	10
Ammonia	5 to 600 ppm	CH20501	**29XM44**	10
Ammonia	2.5 to 100 ppm	8101941	**29XM45**	10
Benzene	5 to 50 ppm	6728071	**29XM50**	10
CH2Cl2	20 to 200 ppm	8103591	**29XN93**	10
Chlorine	0.3 to 5 ppm	6728411	**29XM68**	10
ClO2	0.025 to 1ppm	8103491	**29XN83**	10
CO	5 to 700 ppm	CH25601	**29XM63**	10
CO	8 to 50 ppm	CH19701	**29XM65**	10
CO2	0.1 to 6% Vol.	CH23501	**29XM52**	10
CO2	5 to 60% Vol.	CH20301	**29XM56**	10
Ethylene Oxide	25 to 500 ppm	6728241	**29XM88**	10
Formaldehyde	2 to 40 ppm	8101751	**29XM91**	10
Formic Acid	1 to 15 ppm	6722701	**29XM92**	10
H2S	0.2 to 7% Vol.	CH28101	**29XN05**	10
H2S	0.2 to 5 ppm	8101461	**29XN06**	10
H2S	0.2 to 6 ppm	8101991	**29XN07**	10
H2S	0.5 to 15ppm	6728041	**29XN08**	10
H2S	1 to 200 ppm	8101831	**29XN09**	10
H2S	100 to 2000 ppm	CH29101	**29XN10**	10
H2S	2 to 200 ppm	6728821	**29XN12**	10
H2S	1 to 60 ppm	8101961	**29XN13**	10
H2S	5 to 60 ppm	CH29801	**29XN14**	10
HCL	50-5000 ppm	6728181	**29XM96**	10
HCl	0.2 to 20 ppm	8103481	**29XN90**	10
HCL / HNO3	HCL 1 to 10 ppm, HNO3 1 to 15 ppm	8101681	**29XM97**	10
Hexane	50 to 3000 ppm	8103681	**29XN24**	10
HF	0.5 to 90 ppm	8103251	**29XN01**	10
HF	1.5 to 15 ppm	CH30301	**29XN02**	10
Hydrazine	0.1 to 10 ppm	CH31801	**29XM93**	10
Hydrazine	0.01 to 6 ppm	8103351	**29XN89**	10
Hydrogen	0.2 to 2% Vol.	8101511	**29XM99**	10
Hydrogen Cyanide	0.5 to 100 ppm	8103601	**29XM98**	10
Mercaptans	0.5 to 5 ppm	6728981	**29XN15**	10
Mercaptans	0.1 to 15 ppm	8103281	**29XN16**	10
Mercury	0.05 to 2mg/cu. m	CH23101	**29XN18**	10
Nitrous Fumes	2 to 150 ppm	CH31001	**29XN29**	10
NO2	2 to 100 ppm	6719101	**29XN26**	10
Oxygen	5 to 23% Vol.	8103261	**29XN37**	10
o-Xylene	10 to 400 ppm	6733161	**29XN38**	10
PHC	10 to 300 ppm	8101691	**29XN46**	10
Phenol	1 to 20 ppm	8101641	**29XN48**	10
Phosgene	0.02 to 1 ppm	8101521	**29XN49**	10
Phosphine	0.01 to 1 ppm	8101611	**29XN52**	10
Toluene	100 to 3000 ppm x hr	8101421	**29XN67**	10
Toluene	5 to 300 ppm	8101661	**29XN68**	10
Water Vapor	1 to 40mg/L	CH23401	**29XN75**	10
Water Vapor	1 to 40mg/L	8101781	**29XN77**	10
Water Vapor	3 to 60lbs/mmcf	8103031	**29XN79**	10
Detector Tube Pump Kits				
With Soft-Sided Case		DRAEGER 8317186	**3WZF2**	1
With Plastic Case		4056443	**3YWY6**	1



Bump Gas

GASCO

Designed for bump testing gas detection equipment. Ideal for field applications where access to gas is not available for gas detector verification. Nonaerosol and nonflammable.

Gas Mixture	Mfr. Model	Item No.
200 PPM Carbon Monoxide, 40 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 10% Oxygen, Balance Nitrogen	10L-490T	**33V740**
100 PPM Carbon Monoxide, Balance Air	Bump It-50-100	**33V737**
75 PPM Ammonia, Balance Nitrogen	Bump It-13-75	**33V739**



No. 16N124



No. 33V726



No. 33V733 (Gas Cylinders and Regulators Sold Separately)

ecosmart™ Recyclable Gas Cylinders

GASCO

Calibration gas helps keep gas detectors working; ecosmart™ cylinders hold more gas than traditional disposable cylinders. Recyclable cylinders are designed to help eliminate waste in the environment. Contact GASCO for a free return shipping label.

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.
ecosmart™ Calibration Gas Cylinders			
100 PPM Carbon Monoxide, 25 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 18% Oxygen, Balance Nitrogen	44L	44ES-421	**16M285**
50 PPM Ammonia, Balance Air	58L	58L-14-50	**49Y763**
10 PPM Hydrogen Cyanide, Balance Nitrogen	66L	66ES-HCN-10	**16M738**
60 PPM Carbon Monoxide, 20 PPM Hydrogen Sulfide, 1.45% Methane (29% LEL)(58% LEL Pentane Simulant), 15% Oxygen, Balance Nitrogen	66L	66ES-428-20	**16M597**
100 PPM Carbon Monoxide, 25 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 18% Oxygen, Balance Nitrogen	66L	66ES-421	**16M590**
2.5% Methane (50% LEL) , Balance Air	116L	116ES-135A-2.5	**16N111**
20.9% Oxygen, Balance Nitrogen	116L	116ES-1	**16N124**
25 PPM Hydrogen Sulfide, Balance Nitrogen	116L	116ES-98-25	**16N158**
100 PPM Isobutylene, Balance Air	116L	116ES-248-100	**16N108**
Gas Cylinder Regulators			
0.25 LPM	—	70-0.25	**33V726**
0.5 LPM	—	70-0.5	**33V728**
1.0 LPM	—	70-1.0	**33V729**
1.5 LPM	—	70-1.5	**33V730**
Demand Flow Regulator	—	75-DFR	**33V731**
Multiflow Regulator 0.3 to 8.0 LPM	—	74-DAF	**33V732**
Hard Plastic Carrying Case			
Holds (2) 116L Cylinders and Regulators	—	CC-58-AL	**33V733**

CHERNE® ★ GA GRAINGER APPROVED ALLEGRO INDUSTRIES

Manhole Equipment

Manhole Cover Hooks—Made of 5/8" forged hexagonal steel for the strength to lever up heavy covers. Choose straight or right-angle handle.
- 300-lb. capacity

Manhole Lid Lifter—All-steel construction. Includes rubber grip for handle and foot. Recessable hook.

Magnetic Manhole Lid Lifters with Dolly—2-position lifting points help one person break loose the most stubborn covers—up to 36" dia.—safely and with minimal back strain. Lifters collapse for easy transport and storage.

Manhole Guardrail—Collapsible. Steel frame construction. Includes heavy-duty safety chains.

Guardrail Winch—Mounts easily; 300-lb. cap. Side pieces are aluminum, and winch bar is steel tubing with a 3" drum. Includes 2 independent ratchet systems and automatic brake.

Umbrella and Umbrella Stand—Heavy-duty, waterproof vinyl umbrella is safety yellow color for visibility. Easy stowage in the included bag. Sturdy 2-pc. metal pole can be pushed into the ground, strapped to a manhole guard rail, or used with No. 11C537 metal stand; tilts for convenient placement.

Tent Heater—Steel housing with enclosed heating elements and a sealed motor. Raises the temperature 50°F. UL Listed; CSA Certified.

Description	Brand	Mfr. Model	Item No.
Manhole Cover Hooks			
For 24" dia. Manhole, Flat Handle	Cherne	251429	**3TCR6**
For 24" dia. Manhole, 90° Handle	Cherne	015443	**3TCR4**
For 36" dia. Manhole, Flat Handle	Cherne	251438	**3TCR7**
For 36" dia. Manhole, 90° Handle	Cherne	015438	**3TCR5**
Manhole Lid Lifter			
42"L	GA	10K048	**10K048**
Magnetic Manhole Lid Lifters with Dolly			
Steel Dolly and 660-lb. Lift Weight	Allegro	9401-25	**5PTL7**
Steel Dolly and 900-lb. Lift Weight	Allegro	9401-26	**32MZ68**
Aluminum Dolly and 660-lb. Lift Weight	Allegro	9401-25A	**32MZ67**
Aluminum Dolly and 900-lb. Lift Weight	Allegro	9401-26A	**5PTN0**
Manhole Guardrail			
33"L x 33"W x 42"H	GA	10K047	**10K047**
Guardrail Winch			
With ½" x 35-ft.Dura-Plax™ Braided Rope	Allegro	9401-10	**6MKN6**
Umbrella and Umbrella Stand			
Umbrella 84" Dia., 92" H	Allegro	9403	**1UFG3**
Umbrella Stand	Allegro	9403-05	**11C537**
Tent Heater			
110VAC, 1500W of 5000 Btu with 115 cfm	Allegro	9401-50	**3NPV5**


No. 3TCR4


No. 10K048


No. 5PTN0


No. 10K047


No. 6MKN6


No. 1UFG3



No. 3NPV5

Venturi-Style Pneumatic Air Blowers

ALLEGRO INDUSTRIES ★ AIR SYSTEMS INTERNATIONAL

Use to ventilate explosive and hazardous vapors safely. Operate on compressed air or steam pressure up to 140 psi.

Inlet Connection	Base Dia.	Overall Length	INLET PRESSURE Total Airflow, CFM 40 psig	60 psig	80 psig	Air Consumed, SCFM 40 psig	60 psig	80 psig	Mfr. Model	Item No.
Allegro®										
Galvanized Steel Housing with Cast Aluminum Base										
½" NPT	7⅓"	16¾"	650	865	1080	20	30	40	9518-03S	**3TCK2**
½" NPT	7⅓"	30½"	960	1135	1310	20	30	40	9518-03	**3TCK3**
1" NPT	11¼"	44¼"	2100	2560	3020	20	60	80	9518-06	**3TCK4**
1" NPT	14⅓"	46"	3152	4215	4810	114	110	140	9518-08	**3TCK5**
Plastic Housing with Cast Aluminum Base										
½" NPT	7⅓"	16¾"	650	865	1080	20	30	40	9518-13S	**5GVX7**
½" NPT	7⅓"	30½"	960	1135	1310	20	30	40	9518-13	**5GVX8**
1" NPT	11¼"	44¼"	2280	2560	3020	40	60	80	9518-16	**5GVX9**
1" NPT	14⅓"	46"	3620	4215	4810	80	110	140	9518-18	**5GVY0**

Inlet Connection	Base Dia.	Overall Length	INLET PRESSURE Total Airflow, CFM 50 psig	70 psig	90 psig	Air Consumed, SCFM 50 psig	70 psig	90 psig	Mfr. Model	Item No.
Air Systems International										
Galvanized Steel Housing with Cast Aluminum Base										
½" NPT	7⅝"	16½"	935	1274	1422	38	53	64	ASI-1000	**4YG44**
½" NPT	7⅝"	32⅛"	1211	1429	1580	38	53	64	ASI-1200	**1C089**
1" NPT	11¼"	44"	2770	3340	3752	76	99	127	ASI-2900	**1C093**
1" NPT	14⅜"	46½"	3785	4562	5041	117	152	197	ASI-4100	**1C095**



No. 5GVX7


No. 4YG44


No. 15E886


No. 4YG70


No. 3WE66


No. 5FXZ6


No. 3AT30


No. 3WE68

Confined-Space Fans, Blowers, and Accessories

PLASTIC AXIAL FANS

Standard 115VAC and 12VDC models are portable 8" outlet fans constructed of orange polyethylene and are available with removable canister ducting. Explosionproof models are constructed of black conductive polyethylene to prevent static buildup and are available with conductive ducting. UL Listed, CSA Certified.

STEEL AXIAL FANS

Standard 115VAC No. 4YG70 runs at 72dBA at 1m for extra-quiet operation. Nos. 4YG66 and 4YG68 are 1-pc. axial fans with attached polyethylene duct canister. 12VDC Unit No. 4YG69 includes power cord with battery clips. UL Listed, CSA Certified.

STEEL AXIAL IN-LINE FANS

Fans can be installed in series for running long lengths of ducting. Include 8" or 10" duct adapters on each end of the fan. UL Listed, CSA Certified.

CENTRIFUGAL BLOWERS

All except No. 5FYA1 are mounted on a lightweight tubular steel, dual-handle frame. Polyethylene housing with 8" inlet and outlet flange. UL Listed, CSA Certified.

115V—Models have gray housing, aluminum nonsparking blower wheel, and include GFCI power cord, except Explosionproof Blower No. 5FXZ8 has a black conductive housing and a grounding lug to remove static electricity.

Gasoline with Briggs & Stratton Engine—Includes a 5-ft. remote steel exhaust hose to keep CO away from blower's intake. Meets Cal/OSHA emission standard.

Pneumatic—Uses a compressed air source with a flow capacity of 10 to 100 cfm and a pressure range of 10 to 100 psi. Includes coalescing filter, regulator, and moisture separator/lubricator. Static grounding lug installed for intrinsic safety.

DUCTING

Retractable, wire-reinforced design with 8" cuffs on both sides. Conductive duct includes 18" ground wire on each end.

SADDLE VENT® VENTILATION ACCESSORY KITS

Include Saddle Vent with universal mount and 90° elbow, one 6-ft and 15-ft. length of 8"-dia. ducting, and duct storage canister.

SADDLE VENT®

Vents fit manhole openings 20" and larger. No. 3WE69 removes static buildup in hazardous ventilation environments.

CONFINED-SPACE ACCESSORIES

Individual components to help you design a system to address your specific needs.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Plastic Axial Fans					
115VAC	8"	⅓	974 cfm	CVF-8AC	**15E886**
115VAC with 15-ft. Ducting	8"	⅓	974 cfm	CVF-15ACAN	**15E887**
115VAC with 25-ft. Ducting	8"	⅓	974 cfm	CVF-25ACAN	**15E888**
115VAC Explosionproof	8"	⅓	974 cfm	CVF-8EXP	**15E892**
115VAC Explosionproof with 15-ft. Conductive Ducting	8"	⅓	974 cfm	CVF15CANEX	**15E893**
115VAC Explosionproof with 25-ft. Conductive Ducting	8"	⅓	974 cfm	CVF25CANEX	**15E894**
12VDC	8"	¼	848 cfm	CVF-8DC	**15E889**
12VDC with 15-ft. Ducting	8"	¼	848 cfm	CVF-15DCAN	**15E890**
12VDC with 25-ft. Ducting	8"	¼	848 cfm	CVF-25DCAN	**15E891**
Steel Axial Fans					
115VAC	8"	⅓	1395 cfm	SVF-8AC	**4YG70**
115VAC with Canister and 15-ft. Ducting	8"	⅓	870 cfm	SVF-15ACAN	**4YG66**
115VAC with Canister and 25-ft. Ducting	8"	⅓	858 cfm	SVF-25ACAN	**4YG68**
12VDC with Canister and 25-ft. Ducting	8"	1/6	796 cfm	SVF-25DCAN	**4YG69**
Steel Axial In-Line Fans					
115VAC	8 or 10"	⅓	1390 cfm	SVF-10E	**3WE67**
115VAC Explosionproof	8 or 10"	⅓	1390 cfm	SVF-10EXP	**3WE66**
Centrifugal Blowers					
115VAC	8"	½	1390 cfm	SVB-E8EC	**5FYA1**
115VAC	8"	¾	1570 cfm	SVB-E8	**5FXZ6**
115VAC 2-Speed	8"	⅓ and ¾	1100/1570 cfm	SVB-E8-2	**5FXZ7**
115VAC Explosionproof	8"	¾	1570 cfm	SVB-E8EXP	**5FXZ8**
Gasoline with Briggs & Stratton Engine	8"	127cc Engine	3000 cfm	SVB-G8	**5FYA0**
Pneumatic	8"	4	3000 cfm	SVB-A8	**5FXZ9**

Dia.	L	STANDARD Mfr. Model	STANDARD Item No.	CONDUCTIVE Mfr. Model	CONDUCTIVE Item No.
Ducting					
8"	6 ft.	SVH-6	**2BC85**	SVH-CND86	**3PAR1**
8"	15 ft.	SVH-15	**2AW22**	SVH-CND815	**3PAR2**
8"	25 ft.	SVH-25	**3AT30**	SVH-CND825	**3PAR3**

Description	Mfr. Model	Item No.
Saddle Vent® Ventilation Accessory Kits		
Nonhazardous Locations	SV-CUP	**3PAN9**
Hazardous Locations	SV-CUPCND	**3WE68**
Saddle Vent®		
Orange	SV-189	**2AM94**
Black	SV-189CND	**3WE69**
Confined-Space Accessories		
Standard Duct to Duct 8" Plastic Connector	SVH-88C	**2AR79**
Conductive Duct to Duct 8" Galvanized Connector	SVH-88CND	**3PAR4**
Universal Mount to Fit Saddle Vent®	SV-UM	**2AT72**
Polyethylene Orange Carrier, Holds 50-ft. Duct	SVH-DC25	**5AH48**
Standard 90° Elbow for No. 2AM94	SV-90	**3AM63**
Conductive 90° Elbow for No. 3WE69	SV-90CND	**3PAR5**
Blower Intake Filter Holder	SVB-IFH9	**3PAR7**
Blower Intake Filter Element, 95% Efficient	SVB-IF9ST	**3PAR8**



Confined-Space Ventilation Kits

Available for hazardous and nonhazardous locations. Kits include fan or blower, Saddle Vent®, universal mount, 90° elbow, one 6-ft. duct, one 15-ft. duct, or one 25-ft. duct and duct carrier.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Nonhazardous Location Kits					
Plastic Axial Fans					
115VAC with 25-ft. Ducting	8"	⅓	974 cfm	CVF8A25KIT	**15E899**
12VDC with 25-ft. Ducting	8"	¼	848 cfm	CVF8D25KIT	**15E901**
Centrifugal Blowers					
115VAC	8"	½	1390 cfm	SVB-E8CUP	**5FYA3**
115VAC	8"	¾	1570 cfm	SVB-E8SCUP	**5FYA4**
115VAC 2-Speed	8"	⅓ And ¾	1100/1570 cfm	SVB-E82CUP	**5FYA5**
Gasoline with Briggs and Stratton Engine	8"	127cc Engine	3000 cfm	SVB-G8CUP	**5FYA6**
115VAC	8"	⅓	1395 cfm	SVF-8ACUP	**2ELN8**

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
115VC, Inline	8 or 10"	⅓	1390 cfm	SVF-10ECUP	**2ELN9**
Hazardous Location Kits					
Plastic Axial Fan					
115VAC Explosionproof with 15-ft. Conductive Ducting	8"	⅓	974 cfm	CVFEX15KIT	**15E897**
115VAC Explosionproof with 25-ft. Conductive Ducting	8"	⅓	974 cfm	CVFEX25KIT	**15E898**
Centrifugal Blowers					
Pneumatic	8"	4	3000 cfm	SVB-A8CUP	**5FYA7**
115VAC, Explosionproof	8"	¾	1570 cfm	SVB-E8XCUP	**5FYA2**
Steel Axial In-Line Fan					
115VAC, Explosionproof	8 or 10"	⅓	1390 cfm	SVF10EXCUP	**2ELP1**


No. 1UFG8


ALLEGRO INDUSTRIES No. 5GVT8


No. 1UFH1


No. 2KJH8


No. 5GVU6


No. 3PAL6


No. 5GVY1

Confined-Space Fans, Blowers, and Accessories

Designed for positive and negative ventilation.

Plastic Axial Fans—Lightweight and quiet. Constructed of durable polyethylene with a built-in handle. Fans that include a canister assembly attach to the intake or exhaust side of a blower. No. 32MZ75 has a dual articulating swing arm for precise positioning. Fans with explosionproof motors meet Class I, Div. I and II, Groups C & D and Class II, Div. I and II, Groups F & G. Fans with DC motor include power cord with battery clips.

Steel Axial Fans—Steel construction with handle for easy transport. Nos. 4UDK1, 3PAK4, and 3PAK5 meet Class I, Div. I and II, Groups C & D and Class II, Div. I and II, Groups F & G. No. 32MZ58 meets Class I, Div. I and II, Groups B, C, & D and Class II, Div. I and II, Groups F & G.

Steel Axial Fan Air Bags—All-in-one portable axial fan system built into a heavy-duty polyester bag. Zippered ends allow blower to be used without removing unit from the bag.

Plastic Centrifugal Blowers—Polyethylene construction with a built-in handle and 8" flange on intake and exhaust ports. Nos. 5GVU5 and 5GVU6 are UL Recognized, CSA Certified.

Ducting—Retractable with wire-reinforced design. Cuffs on both sides ease attachment. Conductive ducting prevents static buildup in hazardous locations.

Manhole Ventilation Systems—Low-profile manhole air vent, 90° elbow, and built-in mounting all in 1 unit. Include collapsible duct for easy entry, stored in a small storage bag. Ducting is vinyl and polyester with PVC coating. Systems are compact, lightweight, and not statically conductive. Made from linear low-density polyethylene.

Confined-Space Accessories—Individual components to help design a system to address specific needs.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Plastic Axial Fans					
115VAC	8"	⅓	831 cfm	9533	**1UFG4**
115VAC w/Canister and 15 ft. Ducting	8"	⅓	831 cfm	9533-15	**1UFG5**
115VAC w/Canister and 25 ft. Ducting	8"	⅓	831 cfm	9533-25	**1UFG6**
115VAC w/Swing Arm Mounting Assembly	8"	⅓	831 cfm	9533-20	**32MZ75**
115VAC Explosionproof	8"	⅓	900 cfm	9538	**3PAK1**
115VAC Explosionproof w/Canister and 15 ft. Ducting	8"	⅓	900 cfm	9538-15	**3PAK2**
115VAC Explosionproof w/Canister and 25 ft. Ducting	8"	⅓	900 cfm	9538-25	**3PAK3**
12VDC	8"	¼	816 cfm	9536	**1UFG7**
12VDC w/Canister and 15 ft. Ducting	8"	¼	816 cfm	9536-15	**1UFG8**
12VDC w/Canister and 25 ft. Ducting	8"	¼	816 cfm	9536-25	**1UFG9**
110VAC	12"	1	1842 cfm	9543	**6PTP3**
110VAC w/Canister and 15 ft. Ducting	12"	1	1842 cfm	9543-15	**6PTP4**
110VAC w/Canister and 25 ft. Ducting	12"	1	1842 cfm	9543-25	**6PTP5**
115VAC	12"	1	2180 cfm	9539-12	**5GVX4**
12VDC	12"	¼	1450 cfm	9539-12DC	**5GVX5**
115VAC Explosionproof	12"	⅓	1475 cfm	9539-12EX	**5GVX6**
115VAC	16"	1	3200 cfm	9553	**32MZ60**
115VAC w/Canister and 15 ft. Ducting	16"	1	3200 cfm	9553-15	**32MZ61**
115VAC w/Canister and 25 ft. Ducting	16"	1	3200 cfm	9553-25	**32MZ62**
Steel Axial Fans					
115VAC	8"	⅓	1275 cfm	9513	**6MKN5**
115VAC w/15 ft. Ducting	8"	⅓	1275 cfm	9514	**5GVT7**
115VAC w/25 ft. Ducting	8"	⅓	1275 cfm	9514-25	**5GVT8**
115VAC Explosionproof	8"	⅓	890 cfm	9514-06	**4UDK1**
12VDC w/25 ft. Ducting	8"	¼	1150 cfm	9506-25	**5GVT9**
125VAC Explosionproof	12"	⅓	1636 cfm	9509-01	**3PAK4**
115VAC	16"	½	3400 cfm	9515	**1UFH1**
115/230VAC	16"	2	5500 cfm	9516	**1UFH2**
115VAC Explosionproof	16"	½	2900 cfm	9515-01	**3PAK5**
115/230VAC Explosionproof	16"	1½	4839 cfm	9515-50EX	**32MZ58**
115VAC	20"	½	4650 cfm	9525	**5GVU7**
115/230VAC	20"	2	7500 cfm	9525-50	**5GVU8**
115/230VAC Explosionproof	20"	½	4650 cfm	9525-01	**5GVU9**
115/230VAC Explosionproof	20"	1½	6837 cfm	9525-50EX	**32MZ59**
Steel Axial Fan Air Bags					
120VAC 2-Speed w/15 ft. Ducting	8"	¼	760 cfm	9535-08	**2KJH8**
120VAC 2-Speed w/15 ft. Ducting	12"	½	1840 cfm	9535-12	**2KJH9**
120VAC 2-Speed w/25 ft. Ducting	12"	½	1800 cfm	9535-12L	**32MZ57**
Plastic Centrifugal Blowers					
115VAC	8"	⅓	1066 cfm	9504	**5GVU5**
110VAC	8"	¾	1570 cfm	9504-50	**5GVU6**
Gasoline w/Subaru Engine	8"	5.7	2000 to 3000 cfm	9505	**5GVU4**
Air-Driven	8"	—	1800 cfm	9508	**5GVT6**

Dia.	L	Mfr. Model	STANDARD Item No.	CONDUCTIVE Item No.
Ducting				
8"	15 ft.	9500	**3PAL3**	**3PAK6**
8"	25 ft.	9500	**3PAL4**	**3PAK7**
12"	15 ft.	9550	**3PAL5**	**3PAK8**
12"	25 ft.	9550	**3PAL6**	**3PAK9**
16"	15 ft.	9600	**1UFH3**	**3PAL1**
16"	25 ft.	9600	**1UFH4**	**3PAL2**
20"	15 ft.	9650	**5GVX0**	**5GVX2**
20"	25 ft.	9650	**5GVX1**	**5GVX3**

Description	Outlet Size	Mfr. Model	Item No.
Manhole Ventilation System			
Includes Low-Profile Manhole Air Vent, 90° Elbow, and Built-In Mounting	8"	9510-50	**5GVY1**
	12"	9510-60	**32MZ63**
Confined-Space Accessories			
Duct Storage Bag	8"	9500-45	**3NPV8**
	12," 16," 20"	9600-45	**6MKL6**
Duct Storage Canister	8"	9500-55	**6MKL7**
	12"	9550-55	**6MKL8**
Duct-to-Duct Connector	8"	9500-01	**6MKL9**
	12"	9550-01	**6MKN0**
	16"	9600-01	**6MKN1**
	20"	9650-01	**6MKN2**
Y-Duct Connector	8"	9500-Y	**32MZ64**
	12"	9550-Y	**32MZ65**

Confined-Space Ventilation Kits

ALLEGRO INDUSTRIES

Kits include blower, 6 and 15 ft. of ducting with storage bag, and Manhole Ventilation System No. 5GVY1.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Axial Fan Kits					
Plastic Housing, 115VAC	8"	⅓	831 cfm	9520-33M	**5MWH1**
Plastic Housing, 115VAC	12"	1	1842 cfm	9520-43M	**32MZ76**
Plastic Housing, 12VDC	8"	¼	816 cfm	9520-36M	**5MWH0**
Plastic Housing, 12VDC	12"	¼	1330 cfm	9520-46M	**32MZ77**
Steel Housing, 115VAC	8"	⅓	1275 cfm	9520-14M	**5MWH3**
Steel Housing, 12VDC	8"	¼	1150 cfm	9520-06M	**5MWH2**
Plastic Centrifugal Blower Kits					
115VAC	8"	⅓	1066 cfm	9520-04M	**5GVU0**
115VAC	8"	¾	1570 cfm	9520-50M	**5GVU1**
115VAC Explosionproof	8"	¾	1570 cfm	9520-03M	**5GVU2**
Gasoline w/Subaru Engine	8"	5.7	2000 to 3000 cfm	9520-05M	**5GVU3**


No. 5GVU0

Honeywell MILLER

DuraHoist™ Confined-Space Equipment

- Meets OSHA, ANSI, and CSA standards

Portable Fall-Arrest Anchor Post—Provides 3 independent swiveling connection points for anchoring fall-arrest devices. Telescoping design collapses to 33" for transport and storage. Powder-coated finish.

1-Pc. Adjustable Mast—Quick-release pin allows easy collapsibility. 12" to 29" offset.

2-Pc. Adjustable Upper Mast—Provides extra operating reach when needed and allows components to be used in various configurations.

Adjustable Offset Upper Mast and Lower Mast Extension—Provide flexibility to extend height from 41" to 146" when used with No. 1XEP7. No. 2KTD1 adjusts from 12" to 29".

3-Pc. Portable Base, No. 5RPT8—Features adjustable screws and a built-in level indicator to help assure level setup on uneven surfaces. Use with No. 5RPT7.

3-Pc. Portable Base, No. 1XEP7—Adjustable screws and built-in level indicator for easy setup on uneven surfaces. Max 29" offset. Use with Nos. 1XEP6 and 2KTD1.

Floor-Mount Sleeve—Use with Nos. 1XEP6 or 2KTD1 for horizontal concrete or steel structures.

Bracket Assembly—Mounts winch to Adjustable Masts Nos. 1XEP6 or 2KTD1.

Vehicle Hitch-Mount Sleeve—Easily installs on 2" hitch to provide a portable anchor connection for Adjustable Masts Nos. 1XEP6 or 2KTD1.



No. 5RPT3



No. 1XEP6

Description	L	W	H	Mfr. Model	Item No.
Portable Fall Arrest Anchor Post	10½"	10½"	54½"	DH-AP-1/	**5RPT3**
1-pc. Adjustable Mast	55"	12"	74 to 89"	DH-3/	**1XEP6**
2-pc. Adjustable Upper Mast	63⅜"	16"	46 to 63½"	DH-23/	**5RPT7**
Adjustable Offset Upper Mast	5"	22 to 38"	41 to 56"	DH-21/	**2KTD1**
Lower Mast Extension	3"	3"	45"	DH-22/45	**2KTD4**
3-pc. Portable Base	96"	72"	10"	DH-24/	**5RPT8**
3-pc. Portable Base	50"	38 to 64"	10"	DH-4/	**1XEP7**
Floor-Mount Sleeve, Zinc-Plated Steel	10"	10"	9¼"	DH-7ZP/	**1XEP9**
Bracket Assembly	16"	6"	6"	DH-19-MILLER/	**1XER2**
Vehicle Hitch-Mount Sleeve	41"	48"	36"	DH-12/	**2KTD5**

DBI SALA

Advanced™ Confined-Space Equipment

Portable Fall-Arrest Post—Compact and lightweight, designed for use on top of vertical platforms. Features 3 swivel anchor points that can rotate 360° for freedom of mobility for up to 3 workers.

5-Pc. Hoist System—Includes adjustable offset upper mast, lightweight lower mast, and 3-pc. base.

4-in-1 Davit Guard—Provides portable fall arrest, confined-space entry, and rescue system with davit and guardrail. Lightweight and durable, can be assembled without tools and folds down to less than 12" for portability and storage.

Davit Arm—For portable fall arrest post rescue. Assembles easily to address material handling or rescue needs.

Steel Anchor Base—For use in closed environments free from chemicals or moisture.

Vehicle Hitch-Mount Sleeve—Installs into 2" hitch to provide portable anchor point connection.



No. 5MNZ8

No. 5MNZ9

Description	L	W	H	Mfr. Model	Item No.
Portable Fall-Arrest Post	—	—	30½ to 54½"	8516691	**5MNZ9**
5-Pc. Hoist System	—	37-64"	70½ to 83"	8518000	**5MNZ8**
4-in-1 Davit Guard	—	—	—	8530352	**36G706**
Davit Arm	—	—	—	8516693	**5MPA1**
Steel Anchor Base	10"	8"	3"	8517412	**5MPA2**
Vehicle Hitch-Mount Sleeve	41"	51¾"	36"	8510140	**5MPA3**



Honeywell MILLER

QuickPick™ Rescue Kits

- Meet OSHA and ANSI standards
- 5:1 lifting ratio
- Weight cap.: 400 lb.

Preassembled rescue solutions in an easy-to-store kit require only an overhead anchorage to employ. Backup Braking System acts as a foolproof secondary fall protection device in case the rescuer accidentally releases the rope. Comply with ANSI Z359.4 Safety Requirements for Assisted Rescue and Self Rescue Systems, Subsystems and Components.

Includes	Cable Length	Mfr. Model	Item No.
Cross-Arm Anchorage Connector, Back Up Braking System, Rope, Carabiner, Miller WristBandit™ Tool Lanyard, Pole, Pulley, Bag	50 ft.	QP/50FT	**38Y414**
	75 ft.	QP/75FT	**38Y415**
	100 ft.	QP/100FT	**38Y416**

Confined-Space Rescue Equipment

Condor

- Meets ANSI Z359.4 standard (except No. 35KU76)

Complete Confined-Space Rescue Systems—Prepacked systems with tripod are easy to transport and quickly deployed. Each device includes a storage bag. 310 lb. workload cap.

Tripod—Features 2 head-mount pulleys, nonskid foot pads, and 2-stage collapsible leg adjustment for secure, quick setup. With storage bag. 310 lb. workload cap.

Hoist—Personnel-rated. 310 lb. workload cap.

Rescue Self-Retracting Device (SRD)—3-way recovery device offers dual-mode SRL-R operation as a recovery winch and self-retracting lifeline. It includes a swivel carabiner and storage bag. 310 lb. workload cap.

Retrieval Yoke—Attaches securely to shoulder D-rings on confined-space retrieval harnesses. Spanner bar keeps yoke legs separated for unencumbered egress. Adjustable to wearer shoulder width.

- Meets ANSI Z359.1-2007

Includes	Item No.
Complete Confined-Space Rescue Systems	
Tripod No. 49Z789 with Tripod Leg Bracket No. 49Z790, Winch No. 49Z787, and Storage Bags	49Z791
Tripod No. 49Z789 with Leg Bracket No. 49Z790, 3-Way Retrieval Rescue SRD No. 49Z788, and Storage Bags	49Z792
Tripod No. 49Z789 with (2) Leg Brackets No. 49Z790, Winch No. 49Z787, 3-Way Retrieval Rescue SRD No. 49Z788, and Storage Bags	49Z793
Tripod	
Leg Securing Safety Chain and (3) Non-Slip Foot Pads; Adjustable Working Height 55" to 91" with 6" Adjustments	49Z789



No. 49Z793

Includes	Item No.
Tripod Leg Bracket	
Device Securing Detent Pin and Leg Bolts with Nuts	49Z790
Hoist	
	493F87
Rescue Self-Retracting Device (SRD)	
Galvanized Steel Cable, 3/16 in dia. x 60 ft	49Z788
Retrieval Yoke	
Polyester Webbing with (2) Snap Hooks	35KU76

Confined-Space Rescue Equipment

Honeywell MILLER

- Meets OSHA, ANSI, and CSA standards

Complete Confined-Space Rescue System—A MightEvac® self-retracting lifeline with rescue retrieval (SRL-R), tripod, carabiner, and pulley are provided along with heavy-duty equipment bags.

Tripod—Rubber skid pads on feet and safety chain between legs enhance stability. 310-lb. workload capacity.

ManHandler® Personnel-Rated Hoist/Winch—Rescue speed of 20 fpm. Built-in mounting bracket.

MightEvac® SRL with Emergency Retrieval Hoist—The MightEvac® combines a MightyLite® self-retracting lifeline with a retrieval hoist for emergency evacuation. No annual factory certification required. Average rescue speed of 25 fpm. 310-lb. weight capacity.

Includes	Mfr. Model	Item No.
Complete Confined-Space Rescue System		
7-ft. Tripod, Mounting Bracket, and MightEvac® SRL with 3/16" 50-ft. Galvanized Cable Lifeline	MR50GC-Z7/50FT	1XEU2
Tripod		
Adjustable; 52" to 89"	51/7FT	5T536
ManHandler® Personnel-Rated Hoist/Winch		
Galvanized Steel Cable Lifeline, 3/16" dia. x 65 ft.	8442-Z7/65FT	2JFC8
MightEvac® SRL with Emergency Retrieval Hoist		
Cable Lifeline and Mounting Bracket, 3/16" dia., x 130-ft.	MR130GB-Z7/130FT	36WA24



No. 1XEU2

Confined-Space Rescue Equipment

DBI SALA

Complete Confined-Space Rescue Systems—Lightweight, portable systems are easily set up and transported from one location to another.

Tripods—Feature rubber skid pads on base and adjustable locking legs with safety chain. 350-lb. workload cap.

Winches—Use with independent fall-protection devices to raise and lower workers. 350-lb. weight cap.

Self-Retracting Lifelines (SRLs)—Feature retrieval winch for emergency rescue. Include safety hook with impact indicator. 900-lb. max. arresting force and 420-lb. weight cap.

Boatswain Chairs—Feature heavy-duty polyester webbing and plywood seat.

Rescue Wristlets—Keep victims upright during rescue operations.

Description/Includes	Item No.
Complete Confined-Space Rescue Systems	
7-ft. Tripod No. 5MGG6 and Winch No. 5MNY6	5MNZ2
9-ft. Tripod No. 5MGG7 and Winch No. 5MNY6	5MNZ3
Tripods	
7-ft. Tripod, Adjustable, 60" to 84"	5MGG6
9-ft. Tripod, Adjustable, 84" to 108"	5MGG7
Winches	
Galvanized Steel Cable, 1/4" dia. x 60-ft.	5MNY6
Galvanized Steel Cable, 3/16" dia. x 90-ft.	5MNY7
Galvanized Steel Cable, 3/16" dia. x 120-ft.	5MNY8
Stainless Steel Cable, 1/4" dia. x 60-ft.	5MNY9
Self-Retracting Lifelines (SRL)	
Galvanized Steel Cable, 3/16" dia. x 50 ft.	5MGH0
Stainless Steel Cable, 3/16" dia. x 50 ft.	5MGH3
Boatswain Chairs	
Plywood Seat	3NGH9
Rescue Wristlets	
With Center D-Ring, 12"	3NPW2
With Center O-Ring, 18"	3NPW3



No. 5MNZ2





Honeywell MILLER

Horizontal and Vertical Lifeline Systems

- Meet OSHA, ANSI, and CSA standards

HORIZONTAL SYSTEMS

TechLine™
- Accommodate 2 users

Designed for applications where an overhead anchorage is not present. Include waterproof bucket for safe and dry storage.

SkyGrip® Kits with Anchors

Connections at each end attach to vertical anchorage points.

Xenon®
- Accommodate 2 users

Permanent systems provide automatic pass-through fall protection. Stainless steel components.

VERTICAL SYSTEMS

Vi-Go™ Ladder Climbing System
- Accommodates 4 users

Permanently installed flexible cable system with automatic pass-through provides fall protection for fixed ladder applications. Does not require a cable guide. Easy 1-handed attachment/detachment. Accommodates ⅜" cable. Fall arrestors sold separately.

GlideLoc®

Rigid rail systems are permanent with minimal maintenance required. Fall arrestors sold separately.

Description	L	Mfr. Model	Item No.
Horizontal Systems			
TechLine™			
Include (2) 3" x 10 ft. Polyester Cross-Arm Anchorage Straps, 11⁄16" dia. Kernmantle Lifeline, Lifeline Adjuster, Shock Absorber, Snap Hook, and 2 Connection O-Rings,	30 ft.	HLLR2-Z7/30FT	**36WA23**
	60 ft.	HLLR2-Z7/60FT	**36WA15**
SkyGrip® Kits with Anchors			
Include Lifeline with Energy Absorber, Line Tension Indicator, Turnbuckle Cable, Rope Clip, and 2 D-Bolt Anchors	60 ft.	SG416/60FT	**5RRD0**
Include Lifeline with Energy Absorber, Line Tension Indicator, Turnbuckle Cable, Rope Clip, and 2 Polyester Cross-Arm Straps (3" x 10 ft.)	60 ft.	SG8183-10/60FT	**5RRD4**
Xenon®			
Include 4-in-1 Shock Absorber, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	30 ft.	X00030	**5RPX0**
Include 4-in-1 Shock Absorber, Intermediate Bracket, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	60 ft.	X00060	**5RPX1**
Include 4-in-1 Shock Absorber, 2 Intermediate Brackets, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	90 ft.	X00090	**5RPX2**
Horizontal System Accessories			
Xenon Shuttle with Dual Locking Mechanism for Automatic Pass-Through of Intermediate Brackets	7"	1005709	**5RPW7**
Universal Intermediate Bracket for Easy Passage of Xenon Shuttle	—	1010608	**5RPW8**
4-in-1 Shock Absorber with Turnbuckle, Line Tension Indicator, and Fall Indicator	—	1014934	**5RPW9**
Vertical Systems			
Vi-Go™ Ladder Climbing System			
Includes Automatic Pass-Through System, Top Bracket with Shock Arrestor, ⅜" Galvanized Steel Cable Wire Lifeline, and Bottom Bracket Assembly with Lifeline Tensioner (Fall Arrestors Sold Separately)	40 ft.	VG/40FT	**3RCD2**
GlideLoc® Ladder Climbing System Kits with Galvanized Rails			
Include GlideLoc® Rail, Gated Top and Bottom End-Stops, Ladder Attachment Brackets, and Hardware (Fall Arrestors Sold Separately)	30 ft.	GG0030	**5RPY9**
GlideLoc® Ladder Climbing System Kits with Aluminum Rails			
Include GlideLoc® Rail, Gated Top and Bottom End-Stops, Ladder Attachment Brackets, and Hardware (Fall Arrestors Sold Separately)	30 ft.	GA0030	**5RPZ7**
Vertical Systems Accessories			
Vi-Go™			
Cable Sleeve with Integral Shock Absorber, Swivel, and Carabiner	—	VGCS-SC	**3RCD1**



DBI SALA

Lad-Saf™ X2 Detachable Cable Sleeve

Portable sleeve attaches by carabiner to the harness, arrests falls by locking onto the cable. For climbing fixed ladders.

Description	Hardware Material	Mfr. Model	Item No.
Detachable Cable Sleeve for Use with Fixed Ladder Systems	Zinc Plated Steel	6160054	**65YH40**
	Stainless Steel	6160030	**29EZ46**





DBI SALA

Horizontal Lifeline Systems

- Each system accommodates up to 2 users

Sayfline™—Includes 11⁄16" kernmantle rope lifeline assembly with tensioning device, 2 tie-off adapters, and carrying bag.

EZ-Line™ Retractable—¼" lifeline with 2 carabiners attaches to any 5000-lb. rated anchorage connector or stanchion.

Description	Mfr. Model	Item No.
Sayfline™, 60-ft. Rope Assembly	7600506	**3TNJ1**
EZ-Line™ Retractable, 60-ft. Cable Assembly	7605060	**2UZT7**



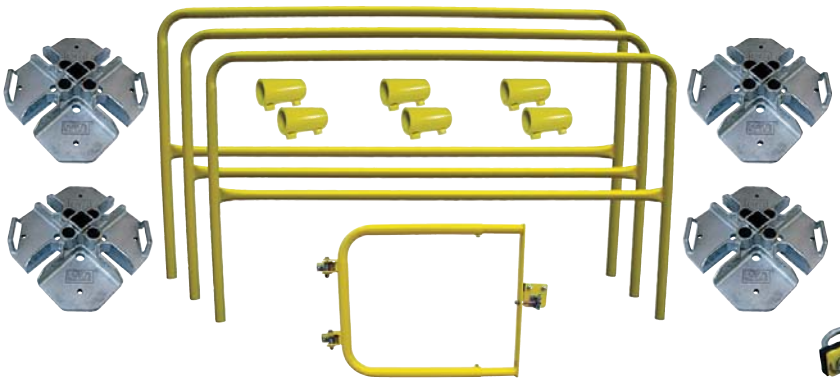
PROTECTA

Portable Horizontal Lifeline System

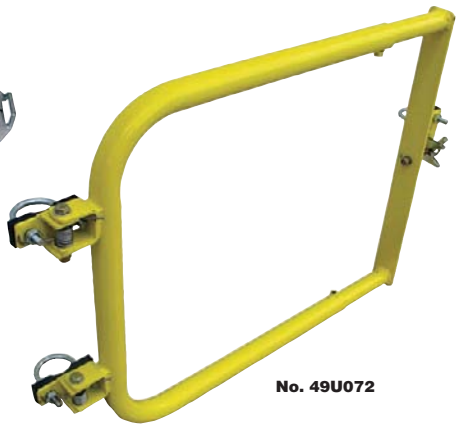
- User-rated for up to 2 users
- Meets OSHA standards

Lightweight system easily installs without special tools or equipment. Attaches to 5000-lb. rated anchorage points.

Includes	L	Mfr. Model	Item No.
Web Lifeline with Tensioner and Shock Absorber, (2) 6-ft. Tie Off Adapters, and Carrying Bag	60 ft.	1200101	**6ZLL4**



No. 49U073



No. 49U072

Portable Guardrail System

Helps eliminate fall hazards by preventing personnel from falling to lower levels. Free-standing system doesn't require surface attachment so you can create custom configurations for floor or wall openings, hatchways, manholes, shafts, or truck docks. The simple set-screw design allows easy installation. The durable finish helps resist corrosion for long life.

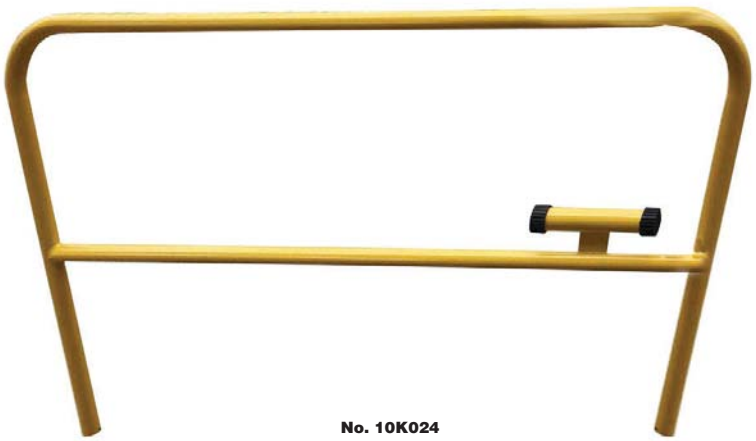
Guardrail Roof Kit—Includes the items you need to create a free-standing safety barrier.

Guardrail Gate—Compact gate is adjustable from 23" to 38"L.

Guardrails—Require Guardrail Base Assembly No. 5KCX6, sold separately.

Guardrail Base Assembly—Rubber pad on bottom helps provide skid resistance and protects surfaces from damage.

Description	Mfr. Model	Item No.
Guardrail Roof Kit		
Includes (4) Guardrail Bases, Swing Gate, (3) Splice Kits, (3) 6 ft. Guardrails	7900008	**49U073**
Guardrail Gate		
Includes (2) Hinges, Latch Gate Clamp, 38"L x 42"H	7900007	**49U072**
Guardrails		
Portable Guardrail Section, Yellow Alloy Steel, 6 ft.	7900061	**5KCX7**
Portable Guardrail Section, Yellow Alloy Steel, 8 ft.	7900062	**5KCX8**
Portable Guardrail Section, Yellow Alloy Steel, 10 ft.	7900063	**5KCX9**
Guardrail Post, 51"H	7901000	**26X344**
Guardrail Base Assembly		
Galvanized Steel, 18" W x 18" L	7900060	**5KCX6**



No. 10K024



No. 10K037

GRAINGER APPROVED

Guardrails and Warning Line System

Guardrails and Accessories—Powder-coated galvanized steel. Heavy-duty steel accessories easily adapt for existing guardrails. Safety locking pin allows for secure and easy attachment.

Guardrail Clamp Systems—Parapet system is zinc-coated steel with easy-to-adjust handles; works with 52" guardrail post (sold separately). Concrete Decking Guardrail Clamp is steel; secures to a concrete slab (up to 36").**Cable Horizontal Lifeline System—**Fall arrest system for 1 or 2 people helps maintain and control desired tension. Adjustable, to substantially reduce the forces on anchor- ages in case of a fall.

Description	Item No.
Guardrails and Accessories	
Guardrail, 6 ft.	**10K024**
Guardrail, 8 ft.	**10K025**
Guardrail, 10 ft.	**10K026**
Guardrail System Base	**10K030**
Guardrail Toe Board Attachment, 10"	**10K031**
Guardrail Toe Board Attachment, 21¼"	**10K032**
Guardrail Clamp Systems	
Parapet Clamp Guardrail System	**10K037**
Concrete Decking Guardrail Clamp	**10K038**



No. 45J304



No. 16V857



No. 45J301

Condor

Rope Grabs, Lifelines, and Carabiners

- Meet ANSI standards

Rope Grabs—For vertical applications. No. 30HG85 hinged design allows quick placement anywhere along vertical lifeline connector. Nos. 45J304 and 45J303 can easily be threaded onto lifeline ropes with unbraided trailing ends.

Lifelines—Increase vertical mobility. Include double-locking snap hook and taped end.

Carabiners—Self-locking link between lifelines, lanyards, and an anchorage point. Constructed of zinc-plated alloy steel.

Description	Item No.
Rope Grabs for ⅝" Dia Rope	
Hinged Self-Tracking	30HG85
Manual with 3-ft. Shock-Absorbing Lanyard and Snap Hook	45J304
Trailing with 3-ft. Shock-Absorbing Lanyard and Snap Hook	45J303
Lifelines, 50 ft. x ⅝" Dia.	
Copolymer	45J302
Polyester	45J301
Carabiners	
¾" Gate Opening, Dim. 4.14"L x 2.30W	16V856
1" Gate Opening, Dim. 4.45"L x 2.82"W	16V854
1 3/16" Gate Opening. Dim. 7.16"L x 3.74"W	16V857
2" Gate Opening, Dim. 8.70"L x 5.59"W	16V855
2" Gate Opening, Dim. 8.58"L x 4.92"W	16V858



No. 2UZY3

Rope Grabs and Lifelines

DBI SALA

Rope Grabs—Stainless steel rope grabs move easily along lifelines to provide continuous fall protection.

- Meet ANSI standards

Rope Lifelines—Abrasion- and UV-resistant with snap hook for easy, 1-handed connection.

Description	Mfr. Model	Item No.
Rope Grabs		
For ⅜" Dia. Steel Cable	5000338	2UZY3
For ⅝" Dia. Rope	5000335	2UZY2
Rope Lifelines, Poly Blend, ⅝" Dia.		
30 ft.	1202754	2UZX7
50 ft.	1202794	2UZX8
75 ft.	1202821	2UZX9
100 ft.	1202844	2UZY1



No. 5AJ17



No. 5M533

Honeywell MILLER

Rope Grabs, Lifelines and Carabiners

- Meet ANSI standards, except Rope Lifelines

Rope Grabs—Stainless steel rope grabs move easily along lifelines to provide continuous fall protection. No. 3KN17 enables hands-free operation.

Rope Lifelines—Used with Miller® rope grabs or roof anchor kit (see page 1792).

Carabiners—Double-action twist-lock anchorage connectors are made of lightweight aluminum.

Description	Mfr. Model	Item No.
Rope Grabs		
Microloc® Compact Trailing for ⅝" Rope	8173/U	4RC61
Microloc® Compact Trailing for 5/16" Wire Rope	8172/U	4RC60
Manual with O-Ring for ⅝" or ¾" Rope	8174/U	5AJ17
Trailing for ⅝" Rope	8175/U	3KN17
Manual with O-Ring for ⅝" or ¾" Rope, Includes 4-ft. Manyard® Shock-Absorbing Lanyard with Snap Hook	8174MLS4-Z7/4FTYL	36WA21
Rope Lifelines, Nylon, ⅝" Dia.		
25-ft. with Thimble	195R-2/25FTWH	1D853
30 ft. with Carabiner	194R-2/30FT	5M534
100-ft. with Carabiner	194R-2/100FT	5M533
Carabiners		
1" Gate Opening	17D-2-Z7/	36WA19
2¼" Gate Opening	18D-2-Z7/	36WA17

PROTECTA



No. 2VAA8

Rope Grab and Lifelines

- No. 2UZY5 meets ANSI standards

Rope grab enables hands-free operation and can be attached or removed anywhere on the lifeline.

Description	Mfr. Model	Item No.
Rope Grab		
For ⅝" Dia. Rope	AC202D	2UZY5
Rope Lifeline, Nylon with Carabiner, ⅝" Dia.		
50 ft.	AC215A1	2VAA8
100 ft.	AC230A1	2VAA9



No. 19F391



No. 19F390



No. 45J299



No. 45J296



No. 30HG83



No. 49CD29



No. 49CD38



No. 49CD35

Anchorage Connectors

- Meet OSHA and ANSI standards

Pass-Thru Anchors—Smaller D-ring passes through larger D-ring to attach to structural member; can be passed through multiple times to adjust overhead height.

Roof Anchors—Permanent and reusable anchors are designed for fall protection during maintenance, repair, and construction on pitched and flat roofs.

Mounted D-Ring and D-Bolt Anchors—Provide economical fall protection anchorage for installation on structural steel members, in a variety of work environments. D-rings are zinc-plated, except No. 45J296 is stainless steel.

Concrete Anchors—Temporary, reusable anchors can be relocated repeatedly. They are engineered for use in cured, existing concrete.

Condor

Beam Anchor and Toggle Anchor—Easy-to-install anchors can be relocated and reused.

Clamp-on Beam Anchor anchor is well-suited for fixed positions. Heavy-duty aluminum alloy construction.

Toggle Anchor can be mounted horizontally or vertically; toggle action secures it in place on the beam. Heavy-duty alloy steel construction.

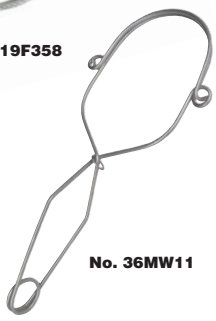
Rotating SRD Anchor—Temporary anchor provides 360° rotation for a personal self-retracting device (SRD), sold separately. It is compatible with Condor® self-retracting lifeline Nos. 22RT98, 22RT99, and 22RU01 on page 1800.

Description	Item No.
Pass-Thru Anchors, Polyester Webbing	
3 ft.	19F392
6 ft.	19F391
8 ft.	30HG92
10 ft.	30HG93
Roof Anchors	
Permanent Double D-Ring Anchor, 17"L	19F390
Permanent Single D-Ring Anchor, 19"L	49CD18
Reusable Hinged Anchor with D-Ring	45J299
D-Ring Steel Anchor Plate	49CD27
Chain Anchor	49CD26
Mounted D-Ring and D-Bolt Anchors	
Mounted D-Ring, Weld-On or Bolt-On, 4½" x 2" Plate with ½" Holes	35KU73
Mounted D-Ring, Bolt-On, 4½" x 2" Plate with ½" Holes	35KU72
Mounted Stainless Steel D-Ring, Bolt-On, 4½" x 2" Plate with ½" Holes	45J296
Permanent D-Ring Bolt Anchor, ½" dia., ⅞" Working Thickness	30HG83
Bolt-On D-Ring Anchor, ⅝" dia. Hole	49CD19
Concrete Anchors	
Removable Bolt (RB) Anchor, Hole Size; ¾" Dia x 3½"D	49CD29
Expansion Wedge Anchor with Swivel-Eye, Hole Size; ¾" Dia x 3½"D	49CD30
Multidirectional Toggle Anchor, Hole Size; ¾" Dia x 1¾"D	49CD31
Beam Anchor and Toggle Anchor	
Beam Anchor, Fits Flanges ½" to 2" Thick and Widths of 4½" to 12"	49CD38
Toggle Anchor for I-and H-Beams Up to 1¼" Flange	49CD28
Rotating SRD Anchor	
For Use on Flat or Low-Slope Roofs, 11"L x 11"W x 8"D	49CD35


No. 36MW07


No. 36MW12

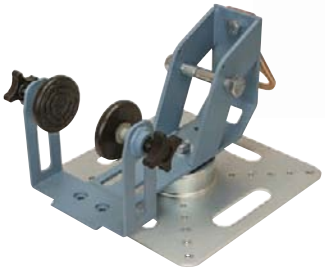

No. 19F358


No. 36MW11


No. 36MF74


No. 36MW09


No. 36MF77


No. 36MF79


No. 19F359


No. 36MF80


No. 36MF81

FALLTECH

Anchorage Connectors

- Tensile strength: 5000 lb., except 3600 lb. for Nos. 36MF79 and 36MF81

Pass-Thru Anchor—Great for I-beams and other rated structural members. A 3" wear pad provides cut and abrasion resistance.

Sling Anchors—Use with I-beams and other rated structural members. Forged alloy steel hardware.

No. 36MW12 is an economical and lightweight anchor sling with heavy-duty polyester webbing. Nos. 19F358 and 36MW08 are excellent in harsh environments, with high-strength cable that provides superior cut/abrasion resistance.

Wire Hook Anchor—Squeeze-open anchor is easily installed. For use only in overhead applications.

Suspended Cable Anchor—Designed to provide a single-person fall arrest or restraint anchor point in surfaces such as steel decking, concrete, and grating. Anchoring plate is 6" x 6" x ¼".

Concrete Anchors—Web Anchor is made for pour-in-place concrete applications. Constructed to resist the abrasion common with rebar form work.

Rotating Bracket models are multiuse anchors featuring a reusable zinc-plated steel anchor plate with an integral 360° self-orienting D-ring.

Adjustable Rotating SRD Anchor—Fall arrest/restraint anchor with 360° rotation mounts to wood or metal roofs or steel decking to extend the capability of personal cable self-retracting devices (SRDs, sold separately). Connection D-ring allows attachment of horizontal or vertical lifeline systems.

Beam Anchors—For use on overhead I-beams.

No. 36MF78 has nylon slider pads and ratcheting design with thumb latches. No. 19F359 has dual aluminum locknut jaws, center D-ring, and aluminum hex bar. Tool-less installation. No. 36MW10 features heavy-duty steel frame and wheels for temporary or permanent installation on closed-end horizontal beams.

Parapet Wall and Window/Door Jamb Anchors—Connectors install without fasteners to provide temporary anchorage.

Parapet Wall Anchor is for use on 9" and higher parapet walls, ½" to 15" thick. Window/Door Jamb Anchor adjusts to 21" to 51" openings to provide fall arrest/restraint anchorage.

Description	Mfr. Model	Item No.
Pass-Thru Anchor		
Polyester Web Strap with Loop, 4 ft.	7348	**36MW07**
Sling Anchors		
Single-D Web Choker Strap, 6 ft.	7272	**36MW12**
Carabiner Sling Anchor, Vinyl Coated Cable, 6 ft.	84202DC	**19F358**
Carabiner Sling Anchor, ¼" Galvanized Cable, 4 ft.	84202D4	**36MW08**
Wire Hook Anchor		
Fits 2" to 3" Pipe Dia.	7402	**36MW11**
Suspended Cable Anchor		
½" dia. Galvanized Steel Cable, 8½ ft.	749485	**36MF74**
Concrete Anchors		
Web Anchor, 4-ft. with Jacketed Loop and O-Ring	7448	**36MW09**
Rotating Bracket with D-Ring	7451AC	**36MF77**
Screw Anchor with Rotating D-Ring Bracket	7451A	**36MF75**
Expansion Bolt with Rotating D-Ring Bracket	7451C	**36MF76**
Adjustable Rotating SRD Anchor		
11"L x 11"W x 8"D with Rear-Mounted D-Ring	7395A	**36MF79**
Beam Anchors		
Trailing I-Beam Anchor, Adjustable Width 3" to 13"	7530	**36MF78**
Clamp with Adjustable Width, 3" to 13" Flange Size	7533	**19F359**
Beam Trolly, Adjustable Width, 3" to 8" Flange Size	7711	**36MW10**
Parapet Wall and Window/Door Jamb Anchors		
Wall Anchor	7460A	**36MF80**
Window/Door Jamb Anchor	7465A	**36MF81**


No. 2UZE1


No. 2UZF5

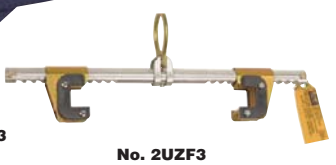

No. 2UZE8

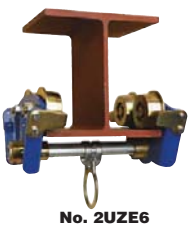

No. 2UZD7


No. 39AL05


No. 2UZE5


No. 2UZE3


No. 2UZF3


No. 2UZE6

DBI SALA

Anchorage Connectors

- Meet OSHA and ANSI standards, except No.2UZE8 does not meet ANSI

Tie-Off Adapters—Anchor a fall protection device to overhead locations. Steel Cable Choker No. 2UZF5 has dual O-ring pass-thru.

Roof Anchors—Solid anchorage without damaging roof. No. 2UZE9 is a permanent stainless steel roof anchor. No. 39AL05, for membrane and built-up roofs, has a swiveling anchorage ring. Base plate is 16"W x 16"H.

D-Ring Anchor—For permanent anchorage connection.

Concrete Anchors—For vertical or overhead/ceiling surface applications. No. 3TNH9 has quick-release button for instant anchor removal.

Beam Anchors—Fixed Anchor No. 2UZF4 works horizontally or vertically. No. 2UZF3 slides to provide horizontal mobility. No. 2UZE6 provides horizontal mobility and fits I-beam flanges.

Description	Mfr. Model	Item No.
Tie-Off Adapters		
Polyester Web Strap, 3 ft.	1003000	**2UZE1**
Polyester Web Strap, 6 ft.	1003006	**2UZE2**
Steel Cable Choker, 4 ft.	5900550	**2UZF5**
Roof Anchors		
Reusable - Hinged with (20) 16D Nails	2103676	**2UZE8**
Reusable - Bracket with Chain and D-Ring	2103673	**2UZE7**
Permanent with (9) 16D Nails	2103678	**2UZE9**
Concrete Roof Top Anchor	2100133	**39AL05**
D-Ring Anchor		
With Anchorage Plate	2101630	**2UZE5**
Concrete Anchors		
Temporary Anchor Strap	2100050	**2UZE3**
Reusable D-Ring	2104560	**2UZD7**
Reusable D-Ring with 5 Bolts	2104561	**2UZD8**
Reusable with Quick-Connect Release	2100085	**3TNH9**
Beam Anchors		
Sliding, Fits 3½" to 14" Flange	2104700	**2UZF3**
Fixed, Fits 2½" to 12" Flange	2108406	**2UZF4**
Trolly, Fits 3" to 8" Flange	2103143	**2UZE6**


No. 1AG81


No. 4RC58


No. 5PB32


No. 5RRD9


No. 19D203


No. 5RRE2

Honeywell MILLER

Anchorage Connectors

Cross-Arm Anchors—Wrap around I-beams and other structures. Web straps have a D-ring that slips through a web loop or D-ring. Cross-Arm Chain No. 3ZL96 is great for harsh environments. Meet applicable OSHA, ANSI, and CSA standards.

Beam Hook Anchor—Large snap hook and D-ring accommodate the connecting device.

Roof Anchors—Reusable roof anchors are for use on steep-pitched or flat wood surfaces. Permanent roof anchors are for use on wood members and sheathing. Meet applicable OSHA and ANSI standards. Nos. 5PB32 and 1RK97 are CSA Certified.

Roof Posts—Stainless steel construction with plated steel wiring. Meet applicable OSHA and ANSI standards.

Mounted D-Bolt Anchors—For permanent anchorage connection. Meet applicable OSHA and ANSI standards. No. 4RC55 is CSA Certified.

Description	Mfr. Model	Item No.
Cross-Arm Anchors		
Polyester Web Strap with Loop, 6 ft.	T7314/6FTAF	**5WG66**
Polyester Web Strap, 6 ft.	8183/6FTGN	**1AG81**
Chain, 6 ft.	440/6FT	**3ZL96**
Beam Hook Anchor		
Steel Hook with Adjustable 20-ft. Extension Pole	475/	**4RC58**
Roof Anchors		
Reusable with Screws	RA20-1/	**36FF26**
Permanent Mount with 2 D-Rings (For Single User)	RA40/	**5PB32**
Reusable - Bracket with Chain and O-Ring for Steep-Pitched or Flat Surfaces	RA30-1/	**1RK97**
Roof Posts		
For Membrane and Built-up Roofs	X10030	**5RRD9**
For Standing Seam Roofs	X10002	**19D203**
Mounted D-Bolt Anchors		
⅝" dia., 4" Working Thickness	416/	**4RC55**
⅝" dia. with Concrete Expansion Anchor	417C/	**5RRE2**

Find more Harness D-ring and Buckle Type information on page 1806.

Full-Body Harnesses

- Meet ANSI standards
- **Capacity: 425 lb.**

Designed for construction and industrial environments, featuring load-impact indicators and lanyard keepers. Constructed of high-strength polyester webbing and alloy steel hardware. Fully adjustable fit with subpelvic strap.

Cross-Over harnesses' triangle shape and tangle-free design helps make donning fast and easy. They have front D-rings for climbing and side D-rings for work positioning applications.

Standard and General Industry—Practical harnesses are designed and equipped to provide adjustability, fit, and value for a wide range of fall protection applications.

General Industry models are designed for the professional user, and offer durability and long life. Adjustments are fast and easy with the friction roller torso adjusters. Belted models feature padded waist support and include tool belt and shoulder pads.

Heavy-Duty models are particularly durable to meet the requirements of demanding professional users.

Premium Comfort Construction-Grade—Construction-grade harnesses have combined D-ring locations to suit multiple fall protection applications. Premium comfort features include a padded torso yoke for shoulders and back and a breathable air mesh shoulder yoke with integral nonslip dorsal D-ring adjustment.

Positioning and retrieval models are configured for job-specific fall protection without sacrificing full adjustability and durable service life. Friction roller torso adjusters and the padded yoke allow fast, easy adjustment and help keep harnesses tangle-free.

Accessories—D-Ring Extenders provide longer reach to ease connecting energy-absorbing lanyards and self-retracting lifelines. No. 30HG84 choke-loop design reduces weight on the dorsal D-ring.

No. 45J297 attaches to most full-body harnesses and helps reduce stress on the body while suspended, waiting for rescue after a fall. Fully adjustable.

Description	D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Standard Industry									
Nonbelted	Yes	No	No	None	MB	MB	Universal	Black	**19F376**
Nonbelted	Yes	No	No	None	MB	MB	XL/2XL	Black	**45J275**
Nonbelted	Yes	No	No	MB	MB	MB	Universal	Blue	**19F377**
Nonbelted	Yes	No	No	MB	MB	MB	XL/2XL	Blue/Black	**45J276**
Nonbelted	Yes	No	No	MB	TB	MB	Universal	Blue/Black	**19F378**
Nonbelted	Yes	No	No	MB	TB	MB	XL/2XL	Blue/Black	**45J277**
Nonbelted, Positioning	Yes	No	Yes	MB	MB	MB	Universal	Blue/Black	**19F379**
Nonbelted, Positioning	Yes	No	Yes	MB	MB	MB	XL/2XL	Blue/Black	**45J278**
Nonbelted Climbing/Positioning	Yes	Yes	Yes	MB	MB	MB	S/M	Blue/Black	**45J279**
Standard Industry Cross-Over Design									
Nonbelted, Climbing	Yes	Yes	No	MB	MB	None	Universal	Blue/Black	**30HG88**
Nonbelted, Climbing	Yes	Yes	No	MB	MB	None	XL/2XL	Blue/Black	**30HG89**
Climbing/Positioning	Yes	Yes	Yes	MB	MB	None	Universal, XL/2XL	Blue/Black	**K2163**
General Industry									
Nonbelted	Yes	No	No	PT	TB	MB	Universal	Blue	**19F380**
Nonbelted	Yes	No	No	PT	TB	MB	XL	Blue/Black	**45J280**
Nonbelted, Positioning	Yes	No	Yes	PT	TB	MB	Universal	Blue	**19F381**
Nonbelted, Positioning	Yes	No	Yes	PT	TB	MB	XL	Blue/Black	**45J281**
Belted	Yes	No	Yes	PT	TB	MB	S/M, L/XL	Blue/Black	**H3933**
Premium Comfort Construction-Grade									
Nonbelted	Yes	No	No	PT	TB	MB	Universal, XL/2XL	Red	**J1405**
Nonbelted	Yes	No	No	PT	QC	QC	Universal, XL/2XL	Red	**J1406**
Nonbelted	Yes	No	No	PT	QC	QC	Universal, XL	Blue/Black	**H3932**
Belted, Positioning	Yes	No	Yes	PT	QC	QC	S, M, L, XL	Blue/Black	**H3934**
Belted, Positioning	Yes	No	Yes	PT	TB	MB	S/M, L/XL	Red	**J1407**
Belted, Positioning	Yes	No	Yes	PT	QC	QC	S/M, L/XL	Red	**J1408**
Premium Comfort Construction-Grade Cross-Over Design									
Climbing/Positioning	Yes	Yes	Yes	PT	QC	None	Universal, XL/2XL	Blue	**J1404**
Premium Comfort Construction-Grade, Retrieval/Shoulder D-Rings									
Nonbelted	Yes	No	No	PT	QC	QC	Universal	Black	**35KU77**
Accessories									
D-Ring Extender, 18"L with Choke Loop									**30HG84**
D-Ring Extender, 18"L with Double Lock Snap Hook									**45J294**
Suspension Trauma Relief System									**45J297**

** PT = pass through; MB = mating buckle; QC = quick connect; TB = tongue buckle.*



Standard, Nonbelted No. 19F376



General, Belted No. H3933



Premium Comfort, Belted No. J1408



Premium Comfort, Nonbelted/Retrieval Shoulder D-Rings No. 35KU77



Suspension Trauma Relief System No. 45J297

Protecta® Pro™ Full-Body Harnesses

- Meet ANSI standards
- **Tensile strength: 3600 lb.**
- **Capacity: 420 lb.**

Comfortable X-design. The fixed D-ring helps reduce the need for readjustment throughout the workday. Lanyard keeper holds excess line to prevent tripping and entanglements. Nos. J6572 to J6574 are vest-style harnesses; great for general-purpose applications.

Nos. J6553 and J6555 have an easy-link web adapter that allows easy attachment of personal self-retracting lifelines and keeps the D-ring available for lanyards, overhead self-retracting lanyards (SRLs), or rescue devices.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	Item No.
Positioning, Climbing							
Yes	Yes	Yes	None	Mating	Mating	S, M/L, XL	**J6572**
Yes	Yes	Yes	None	TB	Quick-Connect	S, M/L, XL	**J6573**
Yes	Yes	Yes	None	Quick-Connect	Quick-Connect	S, M/L, XL	**J6574**
Positioning							
Yes	No	Yes	None	TB	Mating	S, M/L, XL, 2XL	**J6553**
Construction							
Yes	No	Yes	None	TB	PT	M/L	**J6553**
Positioning							
Yes	No	Yes	None	TB	Quick-Connect	S, M/L, XL, 2XL	**J6555**

** PT= pass thru; TB = tongue buckle.*



No. J6572 **No. J6553**

Find more Harness D-ring and Buckle Type information on page 1806.



Vest Style Harness No. G4557



Construction Harness No. G4559



Wind Energy Climbing Harness No. G4560



Arc-Rated Harness No. G2387

DBI SALA

ExoFit NEX™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Designed and constructed for no-tangle donning and a comfortable secure fit. Soft and lightweight, yet durable, with built-in nonslip shoulder, hip, and leg padding. Breathable, moisture-wicking lining keeps wearer dry. 1-handed Revolver™ vertical torso buckles provide easy adjustment of shoulder straps. Duo-Lok™ quick-connect buckles adjust with memory fit feature and allow adjustments to lock in place. Molded protective shell components prevent abrasion and wear and tear in targeted areas. Repel technology webbing reduces attraction of mold and dirt. Integrated suspension trauma straps provide quick pressure relief after a fall. Molded break-away lanyard keeper easily accepts larger snap hooks.

Vest Style—Harness includes Tech-Lite™ aluminum back D-ring.

Construction—Include Tech-Lite™ aluminum back and side D-rings, tongue buckle legs, and integrated hip padding with belt and lumbar wear protection.

Wind Energy Climbing—Feature a radio and Lad-Saf® sleeve holster on the front and removable tool loops on the belt, enabling the wearer to carry equipment while climbing a tower. Include aluminum front, back, and side D-rings and integrated hip padding with belt and lumbar wear protection.

- Meet CSA and CE requirements

Arc-Rated 40 cal/cm² HRC 4—Nomex®/Kevlar® construction with flame-resistant and nonconductive properties. Include PVC-coated aluminum back D-ring and comfort padding.

- Meet ASTM F887-05 arc flash standard and CSA requirements

D-Ring			Buckles*		▶CHOOSE:	Item
Back	Front	Side	Leg	Chest	Size	No.
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL, 2XL, 3XL	**G4557**
Construction						
Yes	No	Yes	TB	QC	S, M, L, XL, 2XL	**G4558**
Yes	No	Yes	QC	QC	S, M, L, XL, 2XL	**G4559**
Wind Energy Climbing						
Yes	Yes	Yes	TB	QC	S, M, L, XL	**G4560**
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G5719**
Arc-Rated 40 cal/cm² - HRC 4						
Yes	No	No	QC	QC	S, M, L, XL, 2XL	**G2386**
Yes	No	Yes	QC	QC	S, M, L, XL	**G2387**

** QC = quick connect; TB = tongue buckle.*



Construction/ General Industry Harness No. J5474



Tower Climbing Harness No. J5475

DBI SALA

ExoFit STRATA™ Full-Body Harnesses

- Meet OSHA and ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Packed with safety technology, these full-body harnesses are not just among the safest on the market, but they're also designed to be among the most-comfortable and lightweight. The breathable PolarMesh™ back pad helps keep you cool, and the proprietary LIFTech™ Load Distribution System redistributes weight to help reduce forces on your shoulders by up to 85% compared to leading competitor harnesses. Additional features include Tech-Lite™ Aluminum Side and Dorsal D-Rings for security without extra weight, an EZ-Link™ Quick SRL Adapter for easy self-retracting line connecting and disconnecting. Tri-Lock Revolver™ Connectors store excess webbing to help provide an extra layer of security around your legs. With an impact indicator and integrated suspension trauma straps.

D-Ring			Buckles*			▶CHOOSE:	Item
Back	Front	Side	Shoulder	Leg	Chest	Size	No.
Construction/General Industry							
Yes	No	Yes	None	QC	QC	S, M, L, XL, 2XL	**J5473**
Yes	No	Yes	None	TB	QC	S, M, L, XL, 2XL	**J5474**
Tower Climbing							
Yes	Yes	Yes	None	QC	QC	S, M, L, XL, 2XL	**J5475**

** QC = quick connect; TB = tongue buckle.*

Find more Harness D-ring and Buckle Type information on page 1806.

ExoFit™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Lightweight, durable polyester web harness is X-shaped to wrap around the wearer's body. Designed for max. comfort, freedom of movement, and ease of use. Vest-style harness is easy to put on and has shape retention memory. 5-pt. adjustment provides a better fit. Breathable lining makes harness comfortable for all-day use. Quick-connect buckles are color coded and provide 1-handed operation.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles Leg*	Buckles Chest*	▶CHOOSE: Size	Item No.
ExoFit™						
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL	**G4561**
Yes	Yes	No	QC	QC	S, M, L, XL	**G4562**
Yes	No	Yes	QC	QC	S, M, L, XL	**G4563**
Wind-Energy						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4574**
Wind-Energy with Hip Pad, Belt, and Lumbar Support						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4575**
Confined-Space with Shoulder D-Rings						
Yes	No	No	QC	QC	S, M, L, XL	**G4576**
Construction						
Yes	No	Yes	QC	QC	S, M, L, XL	**G4577**
Tower-Climbing						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4578**
ExoFit™ XP						
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL	**F8469**
Construction						
Yes	No	Yes	QC	QC	S, M, L, XL	**G4579**
Yes	No	Yes	TB	QC	S, M, L, XL	**G4580**
Trauma Strap						
Suspension Trauma Safety Strap						**2UZP7**
Accessories						
Harness Webbing Protector						**5KCX1**
ExoFit™ 11-Pocket Tool Pouch						**2UZP8**

** QC = quick connect; TB = tongue buckle.*

ExoFit™ Vest Style—Built-in nonslip shoulder, hip, and leg padding stays in place. Soft edging provides enhanced comfort and mobility. Fixed back D-ring.

ExoFit™ Wind-Energy—Feature built-in back and leg padding, plus protective hip padding. Built-in lanyards hold tools and equipment so hands remain free. D-rings are PVC coated.

ExoFit™ Confined-Space—Shoulder D-rings allow use in confined-space entry/rescue applications.

ExoFit™ Construction—Has the same features as ExoFit™, with hip pad and belt for use with tool pouches. Side D-rings for work positioning allow hands-free operation.

ExoFit™ Tower-Climbing—Front D-ring connects to permanent ladder safety systems. Removable seat sling provides suspension and added comfort.

ExoFit™ XP—Removable shoulder, back, and leg cushioned padding allows harness to be washed. 3-D mesh lining eliminates odor and mildew. Adjustable spring-loaded, stand-up back D-ring enables connections to be made without straining. Integral lanyard keeper holds excess line to prevent tripping and entanglements.

ExoFit™ XP Construction—Harnesses have the same features as ExoFit™ XP, plus a hip pad and belt with loops for use with tool pouches. Side D-rings for work positioning allow hands-free operation.

Trauma Strap—Allows suspended worker to stand up in harness to relieve pressure. Continuous loop design allows 1- or 2-ft. suspension. Attaches to most harnesses.



Vest Style Harness No. G4561



Tower-Climbing Harness No. G4578



XP Harness No. F8469



XP Construction Harness No. G4579

Delta™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Durable polyester webbed construction repels water and resists abrasion. Delta No-Tangle™ design holds the shape of the harness, making it easier to put on. Revolver™ torso adjusters provide fast, secure fit. Padded spring-loaded stand-up back D-ring provides extra comfort throughout the neck, shoulders, and back and allows for quick and easy connections.

Standard and Positioning Vest Style—Good for general purpose applications. Models with side D-rings are also for work positioning. Nos. 2UZJ2 and 2UZJ1 have belt loops for separate belt attachment.

Cross-Over—The triangular-shaped, tangle-free design simplifies speedy donning. Front D-rings are for climbing, and side D-rings are for positioning applications.

Construction—Shoulder and hip padding with belt allows use with tool pouches. Side D-rings for positioning.

High-Visibility Work Vest—Reflective orange vest has a built-in harness. Meets ANSI/ISEA Class 2.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Leg	Buckles* Chest	Size	Item No.
Delta™ Standard						
Yes	No	No	Mating	Mating	Universal	**2UZJ4**
Yes	No	No	TB	Mating	Universal	**2UZH7**
Yes	No	No	TB	Mating	Universal	**2UZJ2**
Yes	No	No	QC	QC	Universal	**2UZP6**
Delta™ Positioning						
Yes	No	Yes	Mating	Mating	Universal	**2UZJ5**
Yes	No	Yes	TB	Mating	Universal	**2UZH8**
Yes	No	Yes	TB	PT	Universal	**2UZJ1**
Delta™ Cross-Over						
Yes	Yes	No	Mating	None	Universal	**2UZH9**
Yes	Yes	Yes	Mating	None	Universal	**2UZJ3**
Delta™ Construction						
Yes	No	Yes	TB	Mating	M	**3TND4**
Yes	No	Yes	TB	Mating	L	**2UZH6**
Yes	No	Yes	TB	Mating	XL	**4EGP7**
Delta™ High-Visibility Work Vests						
Yes	No	No	TB	Mating	Universal	**2UZJ9**

** PT = pass through; QC = quick connect; TB = tongue buckle.*



Vest-Style No. 2UZH7



Cross-Over No. 2UZH9



High-Visibility Work Vest No. 2UZJ9

Titan™ II Nonstretch Full-Body Harnesses

- ANSI Z359.11 compliant
- Tensile strength: 5000 lb.
- Capacity: 400 lb.

Durable non-stretch harnesses provide affordable lightweight fall protection for workers in the general construction, manufacturing, and oil and gas (refinery) industries, and similar fields. The harnesses feature easy vertical adjustability that stays in place, and a slip resistant back D-ring pad. Forward-positioned side D-rings help keep your tool bags in the right place for easy access, while Hi-Viz orange color webbing provides improved visibility for increased worksite safety.

No. J5478 features lighter, strategically-placed padding for optimal airflow while working at heights and a removable tool belt that stays in position when disconnected, even when tools are attached.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	Item No.
Standard Nonstretch						
Yes	No	No	MB	MB	L/XL	**49XM24**
Yes	No	No	MB	MB	L/XL	**49XM26**
Yes	No	Yes	MB	MB	L/XL	**49XM25**
Yes	No	Yes	MB	MB	L/XL	**49XM27**
Yes	No	No	TB	MB	S/M, L/XL, 2XL	**J5477**
Contractor Nonstretch						
Yes	No	Yes	TB	MB	S/M, L/XL	**J5478**

** MB = mating buckle; TB = tongue buckle.*



No. 49XM27



No. J5478

Find more Harness D-ring and Buckle Type information on page 1806.



Harness
No. 1D815



Contractor
Harness
No. 2KUC1

Nonstretch Full-Body Harnesses

Honeywell MILLER

- Meet ANSI and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.
- Universal size (L/XL)

Feature lightweight polyester webbing with subpelvic straps for added support. Sliding back D-ring with D-ring pad provides added comfort. Pull-free lanyard ring allows user to attach lanyard when not in use.

Miller® Contractor— Include back and shoulder pads for additional comfort. Removable waist belt accommodates tool pouches.

Miller® Arc-Rated— Designed with Kevlar® webbing and leather insulators under all-metal hardware for additional protection. Meets ASTM F887-05 arc flash standard. For more arc-rated products, see page 1707.

D-Ring			Buckles*				
Back	Front	Side	Shoulder	Leg	Chest	Mfr. Model	Item No.
Miller®							
Yes	No	No	FB	MB	MB	850/UYK	**1D815**
Yes	No	No	FB	TB	MB	850-4/UYK	**6AR84**
Yes	No	Yes	FB	MB	MB	850-7/UYK	**1D814**
Miller® Contractor							
Yes	No	No	FB	TB	MB	650CN-BP/UGN	**2KUC1**
Yes	No	Yes	FB	TB	MB	650CN-BDP/UGN	**2KUA9**
Miller® Arc-Rated							
Yes	No	No	FB	QC	QC	850KQC/UBK	**5RRE4**

** FB = friction belt; MB = mating buckle; QC = quick connect; TB = tongue buckle.*



DuraFlex®
Harness
No. 19D184



DuraFlex
Python®
Harness
No. 1RK90

DuraFlex® Full-Body Harnesses

Honeywell MILLER

- Meet ANSI and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.
- Universal size (L/XL)

Synthetic elastomer webbed harness stretches to provide maximum comfort and mobility and conforms to shape of user. Pull-free lanyard ring allows lanyard to be attached when not in use. Stand-up D-ring allows simple attachment.

DuraFlex®—Solid color leg webbing straps. Nos. 3ZL79 and 3ZL73 have loops for optional tool belt attachment.

DuraFlex Ultra®—Same features as the DuraFlex harness with comfort-touch back D-ring pad with breathable fabric webbing.

DuraFlex Python®—Lightweight harnesses feature cushioned tubular webbing for shoulders. Stretchable DuraFlex webbing in the lower torso offers greater worker mobility.

DuraFlex Python Ultra®—Same features as the DuraFlex Python with comfort-touch D-ring pad with breathable fabric webbing and contoured edges for added comfort. No. 4GE88 includes body belt.

D-Ring			Buckles*				
Back	Front	Side	Shoulder	Leg	Chest	Mfr. Model	Item No.
DuraFlex®							
Yes	No	No	FB	MB	MB	E650/UGN	**3ZL79**
Yes	No	No	FB	TB	MB	E650-4/UGN	**3ZL73**
Yes	No	Yes	FB	MB	MB	E650-7/UGN	**3ZL81**
Yes	No	Yes	FB	TB	MB	E650-58/UGN	**3ZL75**
Yes	No	No	FB	MB	MB	E850-2/UGN	**19D184**
DuraFlex Ultra®							
Yes	No	No	FB	QC	QC	E650QC/UGN	**E1704**
Yes	No	Yes	FB	QC	QC	E650QC-7/UGN	**4GE90**
Duraflex Python®							
Yes	No	No	FB	MB	MB	P950/UGN	**1RK89**
Yes	No	No	FB	TB	MB	P950-4/UGN	**1RK90**
Yes	No	Yes	FB	TB	MB	P950-58/UGN	**1RK91**
DuraFlex Python Ultra®							
Yes	No	No	FB	QC	QC	P950QC/UGN	**4GE87**
Yes	No	Yes	FB	QC	QC	P950QC-7/UGN	**19D182**
Yes	No	Yes	FB	QC	QC	P950QC-77/UGN	**4GE88**

** FB = friction buckle; MB = mating buckle; QC = quick connect; TB = tongue buckle.*



ComforTech™
Harness
No. G4009



Hi-Vis Vest
Harness
No. G4014

Full-Body Harnesses

FALLTECH Fall Protection. Precision Engineered.

- Meet ANSI standards
- Capacity: 425 lb.

FlowTech™— Lightweight harnesses provide maximum air circulation. Feature forged aluminum D-rings, aluminum adjusters and buckles, exterior pad assemblies, and multiple adjustment positions.

ComforTech™— Incorporates gel, memory foam, and lumbar support to increase comfort. 5-pt. adjustment. Features include twin breakaway lanyard keepers, padded shoulder yoke, and waist and leg pads. Allows mounting of tool pouches on waist belt.

Hi-Vis Vests—Features include internal donning cloak for tangle-free use, subpelvic straps, and front and rear pockets. No. G4013 is made of standard contractor-grade reflective material. No. G4014 is made of open-weave mesh with a breathable lining and meets ANSI Class 2 standards.

Arc-Rated—Comply with ASTM F887, OSHA 1926, and ANSI Z-359.1 requirements.

D-Ring Extender—18" Kevlar® webbing with insulated D-ring and choke loop helps maintain continuous arc flash protection when attached to the dorsal D-ring or loop of an arc flash harness.

Tool Leashes—Abrasion-resistant webbing and aluminum or steel carabiners keep dropped tools from striking lower levels. Max. tool capacity 15 lb.

Description	Item No.
D-Ring Extender	
18"L Kevlar® Webbing	**36MF83**
Tool Leashes	
Standard Tool Leash	**19F367**
Tool Leash with 2 Carabiners	**19F368**
Tool Leash with SpeedClip	**19F369**
Tool Leash with Screw Lock Gate	**19F370**

D-Ring			Buckles*					
Back	Front	Side	Shoulder	Leg	Chest	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
FlowTech™								
Yes	No	No	FB	QC	QC	S, M, L, XL	Silver	**G4010**
Yes	No	Yes	FB	QC	QC	S, M, L, XL	Silver	**G4011**
ComforTech™								
Yes	Yes	No	FB	QC	QC	Universal, XL/2XL	Brown	**J1371**
Yes	No	Yes	FB	QC	QC	S/M, L/XL	Brown	**G4009**
Hi-Vis Vests								
Yes	No	No	MB	MB	MB	S/M, L/XL	Lime, Orange	**G4013**
Yes	No	Yes	MB	TB	MB	S/M, L/XL	Lime	**G4014**
Arc-Rated								
Web Loop	No	No	MB	MB	MB	Universal	Black	**45J061**
Yes	No	No	MB	MB	MB	Universal	Black	**45J060**

** FB = friction buckle; MB = mating buckle; QC = quick connect; TB = tongue buckle.*

Find more Harness D-ring and Buckle Type information on page 1806.

Honeywell MILLER

AirCore™ Full-Body Harnesses

- Meet ANSI and CSA standards
- Tensile strength: 5000 lb.
- Weight capacity: 400 lb.

Lightweight construction helps reduce fatigue for increased productivity. Comfortable, stylish design encourages compliance.

Contoured padding is strategically placed at lumbar, neck, and inner thighs. Proprietary, breathable open-core pad construction reduces heat and moisture to help keep the wearer cool and comfortable. Lumbar pad is replaceable on select models.

DuraFlex® stretchable webbing improves mobility. Low-profile cam buckles allow fast, easy, simultaneous shoulder web adjustment.

The front D-ring extends performance and comfort for climbing, confined space, and rescue operations.

Models with aluminum hardware are 20% lighter than steel models and corrosion-resistant for longer service life and reduced replacement costs.

Certain models feature a removable belt with leather guide that is functional and comfortable.

Leather bos'n chair with select models provides an adjustable, rigid work seat; also available separately.

Tower Climbing Harnesses—Engineered for comfort and easy adjustability on cell phone, TV, radio, and utility towers.

Wind Energy Harnesses—Customized, lightweight design helps keep workers safe and comfortable for reduced fatigue and all-day endurance while building and servicing wind turbines. The replaceable lumbar pad features nonmarring materials to protect the harness and the wall of the turbine from damage.

Oil and Gas Harness—Designed as an all-day harness for everyday tasks on drilling or service rigs and in the oil fields and various harsh environments. 18" extended back D-ring is an easy-to-reach attachment point for multiple uses, leaving the stand-up back D-ring as another connection point. Enhanced lumbar padding and expanded front waist padding provide increased comfort and support. Choose a seat sling or bos'n chair for added support and reduced wearer fatigue.

Harness Style/ Hardware Material	D-Ring			Buckles*			▶CHOOSE: Size	▶CHOOSE: Color	Item No.
	Back	Front	Side	Shoulder	Leg	Chest			
AirCore™									
Standard									
Steel	Yes	No	No	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3503**
Steel	Yes	No	No	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3500**
Steel	Yes	No	Yes	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3502**
Steel	Yes	No	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3499**
Steel	Yes	Yes	No	CB	QC	QC	S/M, 2XL/3XL, L/XL	Green, Blue	**J1482**
Steel	Yes	Yes	No	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1489**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, 2XL/3XL, L/XL	Blue, Green	**J1483**
Steel	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1485**
Aluminum	Yes	No	No	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6127**
Aluminum	Yes	No	No	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6124**
Aluminum	Yes	No	Yes	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6126**
Aluminum	Yes	No	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6123**
Aluminum	Yes	Yes	No	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**J1487**
Aluminum	Yes	Yes	No	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green, Blue	**J1481**
Aluminum	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, S/M, L/XL	Green, Blue	**J1486**
Aluminum	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, S/M, L/XL	Blue, Green	**J1490**
Removable Lumbar Pad and Belt									
Aluminum	Yes	Yes	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Blue, Green	**J1480**
Steel	Yes	No	Yes	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3501**
Steel	Yes	No	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3498**
Steel	Yes	Yes	Yes	CB	TB	QC	S/M, 2XL/3XL, L/XL	Blue, Green	**J1488**
Steel	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, S/M, L/XL	Green, Blue	**J1706**
Steel	Yes	No	Yes	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6125**
Steel	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1492**
Steel	Yes	No	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6122**
AirCore™ Tower Climbing									
Standard									
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7531**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7535**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7533**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7537**
Removable Bos'n Chair with Side D-Rings									
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7532**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7536**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7534**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7538**
AirCore™ Wind Energy									
Removable Lumbar Pad and Belt									
Steel	Yes	Yes	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Blue, Green	**J1493**
Aluminum	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1494**
AirCore™ Oil and Gas									
Removable Seat Sling with Side D-Rings									
Steel	Yes	Yes	Yes	CB	TB	MB	S/M, 2XL/3XL, L/XL	Green, Blue	**J1484**
Removable Bos'n Chair with Side D-Rings									
Steel	Yes	Yes	Yes	CB	TB	MB	2XL/3XL, L/XL, S/M	Blue, Green	**J1491**
AirCore™ Tower Harness Accessories									
Tool Loops, Pkg. of 10									**31XM18**
AirCore™ Tower Climbing Harness Accessories									
Bos'n Chair with Steel D-Rings									**31XM19**
Bos'n Chair with Aluminum D-Rings									**31XM20**
AirCore™ Wind Energy Harness Accessory									
Lumbar Wear Pad									**38TD64**
AirCore™ Oil and Gas Harness Accessories									
Seat Sling with Steel Side D-rings									**38TD32**
Bos'n Chair with Steel Side D-rings									**38TC86**

**** CB = cam buckle; QC = quick connect; TB = tongue buckle.***



Standard Harness No. H3503



Tower Climbing Harness with Removable Bos'n Chair No. H7538



Wind Energy Harness with Removable Lumbar Pad and Belt No. J1494



Oil and Gas Harness with Removable Seat Sling No. J1484

Find more Harness D-ring and Buckle Type information on page 1806.



Revolution™ Harness No. 5PA91



Revolution™ Harness with Pad and Removable Belt No. 5PA98



Revolution™ Construction Harness No. 1XEU3



Revolution™ Arc-Rated Harness No. 1XEN7



Revolution™ Vinyl-Coated Harness No. 2KUC2



Relief Step™ Safety Device No. 5PB18 (Harness Sold Separately)



Tool Belt No. 5PB14

Honeywell MILLER

Miller Revolution™ Full-Body Harnesses

- Meet ANSI, and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.

Durable harnesses have flexible, 2-sided polyester webbing with contrasting color. Shape retention memory and independent upper- and lower-torso adjustments make them comfortable enough to wear all day. Web finials' clip-on design organizes webbing after proper adjustment. Highly visible encapsulated pack protects label. Stand-up D-ring allows easy attachment. Back shield conforms to most body shapes, keeps back D-ring in proper position, and minimizes impact from snap hooks and self-retracting lifelines. Cam buckle permits 1-handed adjustment or release simultaneous with shoulder strap (except No. 2KUC2 has friction buckle shoulder straps). PivotLink™ Connection rotary design allows harnesses to move with the body. Provides attachment point for belts, tools, and accessories. Fall indicators take the guesswork out of when to take harnesses out of service. Flexible belt pads on Nos. 5PA95 to 5PA98 minimize absorption and maintain optimal air circulation during positioning.

Revolution™ Construction—Designed to meet the durability requirements for construction applications while providing all-day comfort. Feature back and shoulder padding and modular accessory attachment system.

Revolution™ Arc-Rated—Insulated against electrical shock, with fire-retardant Kevlar® webbing and leather under all hardware. Nos. 1XEN8 and 3PRU1 have front rescue loops. No. 3PRU1 has pad and removable belt. For more Arc-Rated products, see page 1707.

Revolution™ Vinyl-Coated—Ideal for dirty environments such as petrochemical and water treatment plants. Resists physical deterioration resulting from exposure to a variety of liquids and maintains overall performance level.

Relief Step™ Safety Device—Allows suspended worker to stand up in harness to enhance blood circulation and prevent suspension trauma after a fall. Small, lightweight unit attaches to any full-body harness.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	Size	Mfr. Model	Item No.
Revolution™								
Yes	No	No	CB	QC	QC	L/XL	RDT-QC/UBK	**5PA91**
Yes	No	No	CB	TB	QC	L/XL	RDT-TB/UBK	**5PA92**
Revolution™ with Pad								
Yes	No	Yes	CB	QC	QC	L/XL	RDT-QC-DP/UBK	**5PA95**
Yes	No	Yes	CB	TB	QC	L/XL	RDT-TB-DP/UBK	**5PA96**
Revolution™ with Pad and Removable Belt								
Yes	No	Yes	CB	QC	QC	L/XL	RDT-QC-BDP/UBK	**5PA97**
Yes	No	Yes	CB	TB	QC	L/XL	RDT-TB-BDP/UBK	**5PA98**
Revolution™ Construction								
Yes	No	No	CB	MB	MB	L/XL	R10CN-MB/UGN	**1XEU3**
Yes	No	No	CB	TB	MB	L/XL	R10CN-TB/UGN	**1XEU5**
Revolution™ Construction with Pad and Removable Belt								
Yes	No	Yes	CB	MB	MB	L/XL	R10CN-MB-BDP/UGN	**1XEU4**
Yes	No	Yes	CB	TB	MB	L/XL	R10CN-TB-BDP/UGN	**1XEU6**
Revolution™ Arc-Rated								
Web Loop	No	No	CB	QC	QC	L/XL	RKNAR-QC/UBK	**1XEN7**
Web Loop	No	No	CB	QC	QC	L/XL	RKNARRL-QC/UBK	**1XEN8**
Yes	No	Yes	CB	QC	QC	L/XL	RKNARRL-QC-BDP/UBK	**3PRU1**
Revolution™ Vinyl-Coated								
Yes	No	No	FB	TB	MB	L/XL	RPC-TB/UGN	**2KUC2**
Relief Step™ Safety Device								
Relief Step™							9099X/1	**5PB18**
Accessories								
Universal Belt Attachment Clip							RIA-C2/1	**5PB13**
Water Bottle Holder (1 qt.)							RIA-T3/1	**5PB10**
Stretchable Tool Holder							9077X	**5PB17**
Electrician's Pouch							RIA-T11/1	**1XEP5**
Tool Belt w/Pad and Attachment Clips							RIA-B2/	**5PB14**

** CB = cam buckle; FB = friction buckle; MB = mating buckle; QC = quick connect; TB = tongue buckle.*



Body Belt

Condor

Belt can be used for personal restraint applications that do not require fall arrest, or pair with a nonbelted full-body harness for work positioning applications. Polyester web with 4" reinforced waist pad, removable heavy-duty tongue-buckle belt, and 2 side D-rings.

▶CHOOSE: Fits Waist Size	Item No.
S, M, L, XL	**H7937**



No. F8634

Body Belts

Honeywell MILLER

Polyester web belts have a tongue buckle and provide users with positioning alternatives when fall arrest is not required.

Description	▶CHOOSE: Fits Waist Size	Mfr. Model	Item No.
Single D-Ring	S, M, L, XL	123N	**F8634**
Single D-Ring with Back Pad	S, M, L, XL, 2XL	3NA	**E1709**

Condor

Personal Fall Limiter

- Meets ANSI standards
- Capacity: 310 lb.

Helps reduce total fall and deceleration distance. Steel frame with PVC cover. 2"W webbing with snap hook and swiveling carabiner. Features internal braking system.

SRL Length	Item No.
8 ft.	19F393



Honeywell MILLER

Retractable Webbing Lanyard

Compact design keeps webbing retracted and out of the way. Brakes instantly to limit free falls. Swivel shackle prevents twisting. Includes carabiner for attaching to anchor point.

SRL Length	Mfr. Model	Item No.
10 ft.	8327-Z7/10FTYL	36WA07



Honeywell MILLER

Personal Fall Limiters and Cab-Mount Bracket

- Meet ANSI and CSA standards

PERSONAL FALL LIMITERS (PFLs)

Self-retracting lanyards with polyester webbing and quick-activating brake systems eliminate the need for extended fall distance clearance. 6-ft. working length is suitable for most applications; 9-ft. length is great for scaffolding and order picker applications; 11-ft. length offers maximum mobility.

Harness connectors have 3600-lb. gate strength unless noted as 5K (5000 lb.). Connectors are made of steel unless noted as aluminum.

MiniLite®—Lightweight stainless steel interior components with high-impact thermoplastic housing.

Scorpion™—Can be attached directly to the harness D-ring for use as a personal fall limiter or as a traditional lifeline.

Turbo T-BAK™ Retractable Tie-Back—All-in-1 design with anchorage connector reduces the amount of equipment required on a jobsite.

TurboLite™—Impact-resistant nylon housing is compact and lightweight. Unit attaches directly to harness back D-ring for increased mobility.

Twin Turbo™ Systems—Allow 2 TurboLite or Turbo T-BAK tie-back retractable PFLs to be connected to a single harness for 100% tie-off fall protection. Systems with D-ring connector easily attach to noncoated metallic back D-rings. Systems with lightweight G2 connector attach to harness webbing below the D-ring, leaving it open for other equipment. G2 Connector Kit and components are available separately. No. 49U980 includes 1 each of 49U981, 49U982, and 49U983.











SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
Personal Fall Limiters (PFLs)						
MiniLite®						
11 ft.	1	—	Steel Snap Hook	310 lb.	FL11-Z7/11FT	45JJ97
11 ft.	1	Carabiner, Swivel Shackle	Steel Snap Hook	310 lb.	FL11-3-Z7/11FT	1XET6
Scorpion™						
9 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb.	PFL-4-Z7/9FT	1XET5
9 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb.	PFL-5/9FT	3AE97
Turbo T-BAK™ Retractable Tie-Back						
7 ft. 6"	1	5K® Snap Hook	—	400 lb.	MFLT-1/7.5FT	19D179
7 ft. 6"	1	5K® Snap Hook	Steel Carabiner	400 lb.	MFLT-2/7.5FT	5RPR9
7 ft. 6"	1	5K® Snap Hook	Aluminum Carabiner	400 lb.	MFLT-3/7.5FT	5RPT0
7 ft. 6"	1	5K® Snap Hook	Snap Hook	400 lb.	MFLT-5/7.5FT	19D181
TurboLite™						
6 ft.	1	Steel Snap Hook	Steel Carabiner	400 lb.	MFL-1-Z7/6FT	2KUA6
6 ft.	1	Steel Rebar Hook	Steel Carabiner	400 lb.	MFL-2-Z7/6FT	3RCC5
6 ft.	1	Aluminum Snap Hook	Aluminum Carabiner	310 lb.	MFL-11-Z7/6FT	36WA13
6 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	400 lb.	MFL-12-Z7/6FT	36WA12
9 ft.	1	Steel Snap Hook	—	400 lb.	MFL-3-Z7/9FT	49U960
9 ft.	1	Aluminum Snap Hook	—	400 lb.	MFL-16-Z7/9FT	49U954
9 ft.	1	Steel Snap Hook	Steel Carabiner	400 lb.	MFL-1-Z7/9FT	49U957
9 ft.	1	Aluminum Snap Hook	Aluminum Carabiner	400 lb.	MFL-11-Z7/9FT	49U949
9 ft.	1	Steel Snap Hook	Steel Snap Hook	400 lb.	MFL-9-Z7/9FT	49U946
9 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	400 lb.	MFL-12-Z7/9FT	49U951
Twin Turbo™ System with D-Ring Connector						
6 ft.	2	Steel Snap Hook	Snap Hook	400 lb.	MFLB-3-Z7/6FT	5RPR5
6 ft.	2	Steel Rebar Hook	Snap Hook	400 lb.	MFLB-4-Z7/6FT	5RPR6
7 ft. 6"	2	5K® Snap Hook	Aluminum Snap Hook	400 lb.	MFLTB-1/7.5FT	5RPT2
Twin Turbo™ System with G2 Connector						
6 ft.	2	Steel Snap Hook	Snap Hook	400 lb.	MFLC-3-Z7/6FT	49U963
6 ft.	2	Steel Rebar Hook	Snap Hook	400 lb.	MFLC-4-Z7/6FT	49U965
6 ft.	2	Aluminum Snap Hook	Snap Hook	400 lb.	MFLC-11-Z7/6FT	49U968
6 ft.	2	Aluminum Rebar Hook	Snap Hook	400 lb.	MFLC-12-Z7/6FT	49U970
9 ft.	2	Steel Snap Hook	Snap Hook	400 lb.	MFLC-3-Z7/9FT	49U972
9 ft.	2	Aluminum Rebar Hook	Snap Hook	400 lb.	MFLC-12-Z7/9FT	49U978
7 ft. 6"	2	5K® Snap Hook	Steel Swivel Snap Hook	400 lb.	MFLTC-1/7.5FT	49U979
Turbolite™ Extreme						
6 ft.	1	Steel Snap Hook	Aluminum Carabiner	420 lb.	MFLEC-3/6FT	53CV22
9 ft.	1	Steel Snap Hook	Steel Snap Hook	420 lb.	MFLEC-3/9FT	53CV23
9 ft.	2	Steel Rebar Hook	Aluminum Carabiner	420 lb.	MFLEC2-4/9FT	53CV26
Turbolite™ Max						
9 ft.	1	Steel Snap Hook	Aluminum Carabiner	420 lb.	MFLEW-3/9FT	53CV31
6 ft.	2	Aluminum Rebar Hook	Steel Swivel Snap Hook	420 lb.	MFLEW2-12/6FT	53CV36
9 ft.	2	Aluminum Rebar Hook	Steel Swivel Snap Hook	420 lb.	MFLEW2-12/9FT	53CV37


No. 35KV06


No. 35KV07

No. 49CD22


No. 22RT98


No. 35KU82

Self-Retracting Lifelines

- Meet ANSI standards, except 425-lb. models

Provide fall arrest for work locations with distant anchorage points and/or limited clear fall distances.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Item No.
Compact SRLs					
¾"W HPPE, Polyester Blend Web with Housing					
6 ft.	1	Aluminum Snap Hook	Steel Carabiner	310 lb.	**35KU99**
6 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb.	**35KU97**
6 ft.	1	Aluminum Rebar Hook	Aluminum Captive Eye Carabiner	310 lb.	**35KV02**
6 ft.	1	Steel Rebar Hook	Steel Carabiner	310 lb.	**35KU98**
6 ft.	1	Aluminum Rebar Hook	Steel Carabiner	310 lb.	**35KV01**
6 ft.	2	Aluminum Snap Hook	Carabiner	310 lb.	**35KV05**
6 ft.	2	Steel Snap Hook	Carabiner	310 lb.	**35KV03**
6 ft.	2	Aluminum Rebar Hook	Carabiner	310 lb.	**35KV06**
6 ft.	2	Steel Rebar Hook	Carabiner	310 lb.	**35KV04**
9 ft.	1	5K® Carabiner	Steel Carabiner	310 lb.	**49CD22**
9 ft.	2	5K® Carabiner	Carabiner	310 lb.	**49CD23**
3/16" dia., Stainless Steel Cable with Housing					
9 ft.	1	Swivel Shackle	Steel Carabiner	310 lb.	**49CD33**
3/16" dia., Galvanized Steel Cable with Housing					
9 ft.	1	Swivel Shackle	Steel Carabiner	310 lb.	**49CD32**
¾"W HPPE, Polyester Blend Web with Housing					
10 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb.	**35KV07**
10 ft.	1	Aluminum Snap Hook	Aluminum Captive Eye Carabiner	310 lb.	**35KV09**
10 ft.	1	Steel Rebar Hook	Steel Rebar Hook	310 lb.	**35KV08**
10 ft.	1	Aluminum Rebar Hook	Aluminum Captive Eye Carabiner	310 lb.	**35KV10**
Contractor SRLs					
3/16" dia., Galvanized Steel with Housing					
20 ft.	1	Steel Carabiner	Steel Carabiner	310 lb.	**22RT98**
30 ft.	1	Steel Carabiner	Steel Carabiner	310 lb.	**22RT99**
50 ft.	1	Steel Carabiner	Steel Carabiner	310 lb.	**22RU01**
3/16" dia., Galvanized Steel Cable with Housing					
20 ft.	1	Steel Carabiner	Steel Carabiner	425 lb.	**35KU80**
30 ft.	1	Steel Carabiner	Steel Carabiner	425 lb.	**35KU81**
50 ft.	1	Steel Carabiner	Steel Carabiner	425 lb.	**35KU82**
Contractor SRL LE (Leading Edge)					
7/32" dia., Galvanized Steel Cable with Housing					
30 ft.	1	Steel Carabiner	Steel Carabiner	310 lb.	**49CD34**

Compact SRLs— Lightweight, rugged devices are offered in 6-, 9-, and 10-ft. lengths with a choice of leg-end connectors in steel or aluminum. 6-ft. models feature external energy absorbers in one- and two-leg versions. 9- and 10-ft. models feature internal inertial brake system.

Contractor SRLs— Feature swivel-action load-indicating carabiner for back D-ring connection and an integral carriage/attachment handle. Heavyweight 425-lb. models meet OSHA 1926.502.

Contractor SRL LE (Leading Edge)— Designed to reduce the risk of cable failure when contacting an edge during a fall event.


No. 1XET7


No. 2JFC9


No. 45J012


No. 36WA22


No. 49XM38

Self-Retracting Lifelines

- Meet ANSI and CSA standards

Quick-activating braking system stops free falls, providing a safe and quick rescue. Steel connectors with 3600-lb. gate strength. No annual factory recertification required.

Black Rhino™—Small, lightweight housing holds corrosion-resistant stainless steel and aluminum components. Withstands harsh environments.

MightyLite™—Durable, corrosion-resistant stainless steel and aluminum housing. Install overhead; great for hard-to-mount locations.

MightyLite™ LE—Arrestors feature integrated shock-absorbing packs designed for leading edge (LE) applications. Rated for up to a 310-lb. user in LE applications and up to a 400-lb. user when mounted overhead. Models with Kevlar® packs are for use in LE welding applications.

Falcon™—Ultra-durable units have impact-resistant nylon housing with stainless steel and aluminum components.

DuraSeal™—All units come with a cable sling with carabiner (not shown). The cable sling can be used as the primary anchorage connector for carabiner mounted units. It can also be used as a secondary anchorage that can be attached to the handle of the unit.

Falcon™ Edge—Up to 30% lighter than similar models to help ease installation and reduce worker fatigue. Nos. 420H88 to 420H90 have an integrated shock absorber with a flame retardant cover that resists weld splatter in welding applications.

SRL Length	No. of Legs	Anchorage Hook Type	Weight Cap.	Mfr. Model	Item No.
Black Rhino™, 3/16" Stainless Steel Cable					
9 ft.	1	Carabiner, Swivel Shackle	310 lb.	CFL-4-Z7/9FT	**1XET7**
MightyLite™, 1" Polyester Web					
20 ft.	1	Steel Carabiner	310 lb.	RL20P-Z7/20FT	**2JFD4**
MightyLite™, 3/16" Galvanized Steel Cable					
30 ft.	1	Steel Carabiner	310 lb.	RLS30G-Z7/30FT	**2JFD1**
50 ft.	1	Steel Carabiner	310 lb.	RL50G-Z7/50FT	**2JFD3**
100 ft.	1	Steel Carabiner	310 lb.	RL100G-Z7/100FT	**2JFC9**
MightyLite™, 3/16" Stainless Steel Cable					
20 ft.	1	Steel Carabiner	310 lb.	RL20SS-Z7/20FT	**36WA08**
130 ft.	1	Steel Carabiner	310 lb.	RL130SS-Z7/130FT	**36WA16**
MightyLite™ LE, 3/16" Galvanized Steel Cable					
20 ft.	1	Steel Carabiner	400 lb.	RL20G-Z7LE/20FT	**45J012**
30 ft.	1	Steel Carabiner	310 lb.	RLS30G-Z7/LE/30FT	**45J013**
50 ft.	1	Steel Carabiner	310 lb.	RL50G-Z7LE/50FT	**45J014**
65 ft.	1	Steel Carabiner	310 lb.	RL65G-Z7LE/65FT	**45J015**
MightyLite™ LE, 3/16" Galvanized Steel Cable and Kevlar® Shock-Absorbing Packs					
20 ft.	1	Steel Carabiner	310 lb.	RL20G-Z7LEK/20FT	**45J016**
30 ft.	1	Steel Carabiner	310 lb.	RLS30G-Z7LEK/30FT	**45J017**
50 ft.	1	Steel Carabiner	310 lb.	RL50G-Z7LEK/50FT	**45J018**
65 ft.	1	Steel Carabiner	310 lb.	RL65G-Z7LEK/65FT	**45J019**
Falcon™, 3/16" Galvanized Steel Cable					
20 ft.	1	Steel Carabiner	310 lb.	MP20G-Z7/20FT	**1XET8**
30 ft.	1	Steel Carabiner	310 lb.	MP30G-Z7/30FT	**1XET9**
50 ft.	1	Steel Carabiner	310 lb.	MP50G-Z7/50FT	**1XEU1**
Falcon™, 3/16" Stainless Steel Cable					
65 ft.	1	Steel Carabiner	310 lb.	MP65SS-Z7/65FT	**36WA22**
Falcon™ Edge, 7/32" Galvanized Steel Cable					
20 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP20G-LE	**420H85**
30 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP30G-LE	**420H86**
50 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP50G-LE	**420H87**
Falcon™ Edge, 7/32" Galvanized Steel Cable and Kevlar® SofStop Pack					
20 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP20G-LEK	**420H88**
30 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP30G-LEK	**420H89**
50 ft.	1	Carabiner, Swivel Shackle	420 lb.	MP50G-LEK	**420H90**
DuraSeal™ with Cable Sling					
50 ft.	1	Steel Carabiner	420 lb.	SSRL50G1	**49XM28**
100 ft.	1	Steel Carabiner	420 lb.	SSRL100G1	**49XM30**
130 ft.	1	Steel Carabiner	420 lb.	SSRL130G1	**49XM32**
175 ft.	1	Steel Carabiner	420 lb.	SSRL175G1	**49XM34**
50 ft.	1	Steel Carabiner	420 lb.	SSRL50S1	**49XM29**
100 ft.	1	Steel Carabiner	420 lb.	SSRL100S1	**49XM31**
130 ft.	1	Steel Carabiner	420 lb.	SSRL130S1	**49XM33**
175 ft.	1	Steel Carabiner	420 lb.	SSRL175S1	**49XM35**
DuraSeal™ with Cable Sling and 4-Hole Mounting Plate					
100 ft.	1	Steel Carabiner	420 lb.	SSRL100G2	**49XM36**
130 ft.	1	Steel Carabiner	420 lb.	SSRL130G2	**49XM38**
175 ft.	1	Steel Carabiner	420 lb.	SSRL175G2	**49XM40**
100 ft.	1	Steel Carabiner	420 lb.	SSRL100S2	**49XM37**
130 ft.	1	Steel Carabiner	420 lb.	SSRL130S2	**49XM39**
175 ft.	1	Steel Carabiner	420 lb.	SSRL175S2	**49XM41**

Accessories



Cab Mount
No. 16V474



Twin Leg
No. 16V473



Single Leg
No. 16V475

Each Nano-Lok SRL has an integrated anchorage loop to let you install anchorage connections such as these and leave the harness dorsal D-ring open for other equipment or rescue.



Nano-Lok™
No. 16V464



Talon™
No. 3TNH1



Ultra-Lok®
No. 2UZZ5



Ultra-Lok® RSQ
No. 5KCX2



Sealed-Blok™
No. 3TNE7

DBI SALA

Self-Retracting Lifelines

NANO-LOK™

- Meet ANSI standards, except Tie-Back

Standard—Light, compact units feature an impact-resistant housing with swiveling anchorage loop and automatic quick-activating arrestor.

No. 45WA80 is designed for welding, grinding, and other high-heat applications. It has flame-resistant Kevlar®/Nomex® fiber webbing and is arc rated APTV 8 cal./cm^2.

Tie-Back—Units incorporate a 36" tie-back leg, to eliminate the need for a separate anchor connector, tie-off adapter, or scaffold choker. UV-resistant nylon housing.

LE (Leading Edge)—Designed for safety and comfort in foot-level tie-off and sharp-edge applications. Weight-dispersing energy absorber and 360°-rotating connector attach directly to harness, leaving the D-ring open. 2-leg SRLs provide 100% tie-off.

Connectors—Use to secure a Nano-Lok SRL directly to a full-body harness webbing, leaving the back D-ring available.

TALON™

- Meet ANSI and CSA standards (except Nos. 3TNH1 and 3TNH2 do not meet ANSI)

Standard—Compact design with quick-connect handle for direct attachment to anchorage or harness.

Tie-Back—Eliminate the need for a separate anchorage connector. Built-in lanyard keepers and hook-and-loop attachment fit most harnesses.

Cab Mount Bracket—Connects directly to the cab for convenient anchorage point.

ULTRA-LOK®

- Meet ANSI standards

Corrosion-resistant stainless steel components with durable polyurethane housing. Antiratcheting, twin disc brake system limits arresting forces.

ULTRA-LOK® RSQ

- Meet ANSI standards

Provide fall arrest with assisted rescue capabilities and automatic self rescue. Constructed of reinforced plastic and include built-in carrying handle.

SEALED-BLOK™

- Meet ANSI and CSA standards

Fully sealed design protects working components, enhances safety, and extends working life.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
Nano-Lok™						
Standard, 25/32" Nylon Webbing						
6 ft.	1	—	Snap Hook	420 lb.	3101252	**16V466**
6 ft.	1	Carabiner	Snap Hook	420 lb.	3101215	**16V464**
6 ft.	1	Aluminum Carabiner	Snap Hook	420 lb.	3101214	**16V465**
6 ft.	1	Carabiner	Steel Rebar Hook	420 lb.	3101217	**16V467**
6 ft.	1	Aluminum Carabiner	Aluminum Rebar Hook	420 lb.	3101236	**16V468**
6 ft.	2	Snap Hook	Quick Connect	420 lb.	3101279	**16V471**
6 ft.	2	Snap Hook	Quick Connect	420 lb.	3101276	**16V469**
6 ft.	2	Aluminum Rebar Hook	Quick Connect	420 lb.	3101277	**16V470**
6 ft.	2	Steel Rebar Hook	Quick Connect	420 lb.	3101280	**16V472**
Standard 25/32" Kevlar®/Nomex Webbing						
6 ft.	1	Carabiner	Snap Hook	420 lb.	3101498	**45WA80**
Tie-Back, 25/32" Nylon Webbing						
9 ft.	1	Snap Hook	Quick Connect	420 lb.	3101366	**46W460**
9 ft.	2	Snap Hook	Quick Connect	420 lb.	3101374	**46W459**
LE (Leading Edge) with 3/16" Galvanized Cable						
8 ft.	1	Carabiner	Quick Connect	420 lb.	3500214	**19TR91**
8 ft.	2	Carabiner	Swivel Snap Hook	420 lb.	3500229	**19TR85**
8 ft.	1	Snap Hook	Quick Connect	420 lb.	3500210	**19TR89**
8 ft.	2	Snap Hook	Quick Connect	420 lb.	3500225	**19TR83**
8 ft.	1	Aluminum Snap Hook	Aluminum Captive Eye Carabiner	420 lb.	3500215	**19TR92**
8 ft.	1	Aluminum Rebar Hook	Quick Connect	420 lb.	3500216	**19TR93**
8 ft.	2	Aluminum Rebar Hook	Quick Connect	420 lb.	3500231	**19TR81**
8 ft.	1	Steel Rebar Hook	Steel Carabiner	420 lb.	3500212	**19TR90**
8 ft.	2	Steel Rebar Hook	Quick Connect	420 lb.	3500227	**19TR82**
8 ft.	1	Swivel Snap Hook	Snap Hook	420 lb.	3500211	**19TR87**
8 ft.	2	Swivel Snap Hook	Quick Connect	420 lb.	3500226	**19TR84**
LE (Leading Edge) 3/16" Kevlar®/Galvanized Steel Cable						
9 ft.	1	5K® Snap Hook	Tie-Back	420 lb.	3500213	**19TR88**
9 ft.	2	5K® Snap Hook	Tie-Back	420 lb.	3500228	**19TR80**
Nano-Lok™ Connectors						
For Use with Nano-Lok Single Leg Self-Retracting Lanyards						
—	1	—	—	420 lb.	3100088	**16V475**
For Use with Nano-Lok Twin Leg Self-Retracting Lanyards						
—	—	—	—	420 lb.	3100087	**16V473**
For Use with Nano-Lok Single Leg Self-Retracting Lanyards						
—	—	—	—	—	3100089	**16V474**
Talon™						
Standard, 3/4" Nylon Webbing						
8 ft.	1	Swivel Snap Hook	Steel Rebar Hook	310 lb.	3101000	**3TNG7**
8 ft.	1	Swivel Snap Hook	Carabiner	310 lb.	3101001	**3TNG8**
Tie-Back, 3/4" Nylon Webbing						
9 ft. 6"	1	—	Quick Connect	310 lb.	3101300	**3TNH1**
Tie-Back, 1" Nylon Webbing						
6 ft.	2	Steel Rebar Hook	Quick Connect	310 lb.	3102003	**3TNG9**
7 ft. 6"	2	—	Quick Connect	310 lb.	3102100	**3TNH2**
Cab Mount Bracket						
8 ft.	1	—	Swivel Snap Hook	310 lb.	3101009	**5KCY3**
Ultra-Lok®						
3/16" dia. Galvanized Steel Cable						
20 ft.	1	Snap Hook	Swivel Snap Hook	310 lb.	3504433	**2UZZ6**
30 ft.	1	Snap Hook	Swivel Snap Hook	310 lb.	3504430	**2UZZ5**
50 ft.	1	Snap Hook	Swivel Snap Hook	310 lb.	3504450	**2UZZ7**
85 ft.	1	Carabiner	Swivel Snap Hook	310 lb.	3504485	**3TNG6**
3/16" dia. Stainless Steel Cable						
20 ft.	1	Carabiner	Swivel Snap Hook	310 lb.	3504434	**3TNG3**
30 ft.	1	Carabiner	Swivel Snap Hook	310 lb.	3504431	**3TNG4**
50 ft.	1	Carabiner	Swivel Snap Hook	310 lb.	3504451	**3TNG5**
Ultra-Lok® RSQ, 3/16" Galvanized Steel Cable						
50 ft.	1	Carabiner	Swivel Snap Hook	310 lb.	3504550	**5KCX2**
Sealed-Blok™, "3/16" Stainless Steel Cable"						
15 ft.	1	Carabiner	Swivel Snap Hook	420 lb.	3400827	**3TNE7**
30 ft.	1	Carabiner	Swivel Snap Hook	420 lb.	3400801	**3TNE9**
30 ft.	1	Carabiner	Swivel Snap Hook	420 lb.	3400802	**3TNF1**


No. 36MF89

FALLTECH

DuraTech® Compact Self-Retracting Lifelines

- Meet ANSI standards

SRLs have an internal inertial brake disc system that eliminates the need for an external shock pack. Heavy-duty main spring and abrasion-resistant HPPE webbing deliver long service in the most demanding conditions.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
6 ft.	1	Aluminum Snap Hook	Steel Carabiner	310 lb.	82706SB4	**36MF89**
6 ft.	1	Aluminum Rebar Hook	Steel Carabiner	310 lb.	82706SB5	**36MF90**
6 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	310 lb.	82706S5	**36MF91**
6 ft.	1	Steel Rebar Hook	Steel Carabiner	310 lb.	82706SB3	**36MF88**
6 ft.	2	Aluminum Snap Hook	Carabiner	310 lb.	82706TB4	**36MF94**
6 ft.	2	Aluminum Rebar Hook	Carabiner	310 lb.	82706TB5	**36MF95**
6 ft.	2	Steel Rebar Hook	Carabiner	310 lb.	82706TB3	**36MF93**


No. 6ZLP1

Rebel™ Self-Retracting Lifelines

PROTECTA

- Meet ANSI standards

Thermoplastic housing is lightweight, compact, and durable. Feature swivel housing, snap hook, and swivel hook. Corrosion-resistant.

Description	SRL Length	Weight Cap.	Mfr. Model	Item No.
3/16" Galvanized Steel Cable	20 ft.	420 lb.	3590517	**29GA87**
	33 ft.	420 lb.	3590500	**6ZLP1**
	50 ft.	420 lb.	3590550	**6ZLP2**
	66 ft.	420 lb.	3590590	**6ZLP3**
	100 ft.	420 lb.	3590670	**6ZLP4**
3/16" Stainless Steel Cable Cable	20 ft.	420 lb.	3590504	**29GA88**
1" Nylon Strap	11 ft.	310 lb.	3100426	**53CV17**
1" Polyester Strap	6 ft.	310 lb.	3100403	**40MC98**
	11 ft.	310 lb.	3100425	**40MC86**
	20 ft.	310 lb.	3100431	**40MC60**


No. 19F365

FALLTECH

Contractor Self-Retracting Lifelines

- Meet ANSI standards

Inertial brake limits deceleration distance. Glass-filled reinforced nylon housing with independent alloy steel frame is rugged yet lightweight. Alloy steel double-locking carabiner and load-indicating swivel carabiner.

Dyneema® is a registered trademark of DSM IP Assets B.V.

Line Material	Weight Cap.	L	Mfr. Model	Item No.
Galvanized Steel	310 lb.	30 ft.	727630	**19F365**
Galvanized Steel	310 lb.	50 ft.	727650	**19F366**


No. 19F384


No. 19F388


No. 19F385


No. 45J286

Polyester Web Shock-Absorbing Lanyards

Condor

- Meet ANSI standards, except Heavy User Internal Shock Absorber models

For use as the connecting deceleration element of a personal fall-arrest system.

Standard Internal Shock Absorber—Feature a continuous-length, internal energy-absorbing material jacketed with a durable tubular web. Include impact indicator.

Heavy User Internal Shock Absorber—Additional internal energy-absorbing material limits fall arrest forces experienced by users between 310 and 400 lb. (including tools and equipment).

Tie-Back—Pack-style shock absorber has tie-back D-ring.

Elastic—Expand and contract with wearer's movements to reduce potential entanglements and tripping hazards.

Choker Loop—Provide lightweight, secure attachment to the harness D-ring.

Max. Working Length	No. of Legs	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Weight Cap.	Item No.
Standard Internal Shock Absorber					
6 ft	1	Snap	Snap	310 lb.	**19F382**
6 ft	1	Rebar	Snap	310 lb.	**19F383**
6 ft	2	Rebar	Snap	310 lb.	**19F384**
Heavy User Internal Shock Absorber					
6 ft	1	Snap	Snap	425 lb.	**45J289**
6 ft	2	Snap	Snap	425 lb.	**45J291**
6 ft	1	Rebar	Snap	425 lb.	**45J290**
6 ft	2	Rebar	Snap	425 lb.	**45J292**
Tie-Back					
6 ft	1	Snap	Snap	310 lb.	**19F388**
6 ft	2	Snap	Snap	310 lb.	**19F389**
Elastic					
4 ft 6 in to 6 ft	1	Snap	Snap	310 lb.	**19F385**
4 ft 6 in to 6 ft	2	Snap	Snap	310 lb.	**19F386**
4 ft 6 in to 6 ft	1	Rebar	Snap	310 lb.	**45J282**
4 ft 6 in to 6 ft	2	Rebar	Snap	310 lb.	**19F387**
Choker Loop, Standard					
6 ft	1	Snap	Choke	310 lb.	**45J286**
6 ft	1	Rebar	Choke	310 lb.	**45J287**
6 ft	2	Rebar	Choke	310 lb.	**45J288**
Choker Loop, Elasticated					
4 ft 6 in to 6 ft	1	Snap	Choke	310 lb.	**45J283**
4 ft 6 in to 6 ft	1	Rebar	Choke	310 lb.	**45J284**
4 ft 6 in to 6 ft	2	Rebar	Choke	310 lb.	**45J285**



FALLTECH

Titanium® Coated Shock-Absorbing Lanyards

- Meet ANSI standards

1" lanyard is coated with Microshield® to extend service life and resist damage in harsh environments. Feature double-locking alloy steel hooks; snap hooks have 3/4" gate opening, and rebar hooks have 2 1/4" gate opening. Window on shock absorber pack for easy inspection.

Working Length	No. of Legs	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Weight Cap.	Mfr. Model	Item No.
Single-Leg						
6 ft	1	Snap	Snap	310 lb.	8256T	**19F353**


No. 45JK08


No. 45JJ96


No. 45JK17


No. 1XET1


No. 3LCV5


No. 4YF78


No. 36WA06


No. 5RRF4

Honeywell
MILLER

Shock-Absorbing Lanyards

- Meet ANSI standards
- Weight capacity: 310 lb.

Shock-absorbing woven inner core smoothly expands to reduce fall forces. Snap hooks have ¾" gate opening; rebar hooks have 2½" gate opening.

SofStop®—Include back-up safety strap. Vinyl coating on select items prevents absorption of liquids.

Manyard HP™—Tubular outer jacket serves as a back-up lanyard.

Manyard® II—Stretch from 4 to 6 ft. to reduce tripping, snagging, or dragging. Integral red core for easy visual inspection.

BackBiter® Tie-Back—Eliminate the need for a separate anchorage connector. Anchorage snap hook gate load capacity is 5000 lb. from any angle.

StretchStop®—Include SofStop® shock-absorber pack with back-up safety strap. Stretch from 4 to 6 ft. to minimize tripping, snagging, and dragging.

Line Material	Max. Working Length	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Color	Mfr. Model	Item No.
SofStop®								
Nylon Rope	5 ft.	1	310 lb.	Snap Hook	Snap Hook	White	901RLS-8-Z7/5FT	**45JJ99**
Nylon Rope	6 ft.	1	310 lb.	Snap Hook	Snap Hook	White	901RLS-8-Z7/6FTWH	**45JK08**
Polyester	3 ft.	1	310 lb.	(1) Snap Hook	Snap	Green	913WLS-Z7/3FTYL	**36WA11**
Polyester	6 ft.	1	310 lb.	(1) Snap Hook	Snap Hook	Yellow	913WLS-Z7/6FTYL	**45JJ96**
Polyester	6 ft.	2	310 lb.	(2) Snap Hooks	Snap Hook	Yellow	8798-Z7/6FTYL	**45JK03**
Polyester	6 ft.	2	310 lb.	(1) Snap Hook	Rebar	Green	8878T-Z7/6FTGN	**36WA18**
Vinyl-Coated Polyester	6 ft.	1	310 lb.	Snap	Snap	Green	913PC/6FTGN	**2KUC3**
Vinyl-Coated Polyester	6 ft.	2	310 lb.	Snap	Snap	Green	8798PC/6FTGN	**2KUC4**
Kevlar®	6 ft.	1	310 lb.	Rebar	Snap	Gray	933KR-Z7/6FTBK	**36WA20** *
Kevlar®	6 ft.	2	310 lb.	(2) Rebar Hooks	Web Loop	Black	8799KR-Z7/6FTBK	**45JK17** *
Manyard HP™								
Polyester	6 ft.	1	310 lb.	Snap	Snap	Green	216TWLS-Z7/6FTGN	**1XER7**
Polyester	6 ft.	1	310 lb.	Rebar	Snap	Green	219TWRS-Z7/6FTGN	**1XER8**
Polyester	6 ft.	2	310 lb.	(2) Snap	Snap	Green	232TWLS-Z7/6FTGN	**1XER9**
Polyester	6 ft.	2	310 lb.	(2) Rebar	Snap	Green	231TWRS-Z7/6FTGN	**1XET1**
Manyard® II								
Kevlar®	4 ft. to 6 ft.	2	310 lb.	(2) Snap Hooks	Web Loop	Black	232MK-Z7/6FTBK	**45JK06** *
Polyester	4 ft. to 6 ft.	2	310 lb.	(2) Rebar	Snap	Green	231M-Z7/6FTGN	**3LCV5**
BackBiter® Tie-Back								
Polyester	6 ft.	1	310 lb.	5K Snap	Snap	Green	913B/6FTGN	**4YF79**
Polyester	6 ft.	2	310 lb.	(2) 5K Snap	Snap	Green	8798B/6FTGN	**4YF78**
StretchStop®								
Polyester	4 ft. to 6 ft.	1	310 lb.	(1) Snap Hook	Snap	Green	913SS-Z7/6FTGN	**36WA06**
Polyester	4 ft. to 6 ft.	1	310 lb.	Rebar	Snap	Green	940RSS-RR-Z7/6FTGN	**5RRF3**
Polyester	4 ft. to 6 ft.	2	400 lb.	(2) Rebar	Snap	Green	980RSS-RR-Z7/6FTGN	**5RRF4**

** Meet ASTM F887-05 Arc Flash standard. For more arc-rated products, see page 1707.*


No. 6ZLN2


No. 2UZW1


No. 6ZLN4


No. 6ZLN6

PROTECTA

Pro™ Shock-Absorbing Lanyards

- Meet ANSI standards

Clear cover over shock pack allows easy visual inspection.

Protecta Pro™ Pack—Durable with lightweight construction and enhanced comfort.

Protecta Pro-Stop™—Features polyester tubular web instead of a traditional shock pack.

Protecta Pro™ Stretch—Expand and contract to user's movements and minimize tripping and entanglements.

Line Material	Max. Working Length	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Mfr. Model	Item No.
Protecta Pro™ Pack								
Polyester	6 ft.	2	310 lb.	Snap	Snap	1342001	1342001	**6ZLN3**
Polyester	6 ft.	1	310 lb.	5K Carabiner	Snap	1340040	1340040	**6ZLN9**
Polyester	6 ft.	2	310 lb.	(2) Rebar	Snap	1340180	1340180	**6ZLN2**
Polyester	6 ft.	2	310 lb.	5K Carabiner	Snap	1340060	1340060	**6ZLP0**
Nylon	6 ft.	1	310 lb.	Snap	Snap	1341001	1341001	**2UZW1**
Protecta Pro-Stop™								
Polyester	6 ft.	1	310 lb.	Snap	Snap	1340220	1340220	**6ZLN4**
Protecta Pro™ Stretch								
Polyester	6 ft.	2	310 lb.	Snap	Snap	1340141	1340141	**6ZLN5**
Polyester	6 ft.	2	310 lb.	(2) Rebar	Snap	1340161	1340161	**6ZLN6**







Shock-Absorbing Lanyards

- Meet ANSI standards

EZ-Stop™—Lightweight and compact modular design reduces the overall cost of ownership by allowing individual components to be purchased and replaced separately as needed.

EZ-Stop™ Tie-Back, Nos. 46W446 and 46W447—Single-leg tie-back web has a snap hook at one end and tie-back hook at the other.

EZ-Stop™ Retrax™—Adjustable spring technology retracts lanyard automatically to fit the working area.

EZ-Stop™ III—Tubular webbing integrates the shock-absorbing core. Stretches instead of tearing when subjected to fall-arrest forces.

ShockWave2™—Expand and contract to user's movements to minimize tripping and entanglements.

ShockWave2™ Tie-Back, No. 425Y89—Include the same features as the ShockWave2 with the added versatility of a tie-back to eliminate the need for a separate anchorage connector.

Line Material	Max. Working Length	No. of Legs	Strap Width	Weight Cap.	Locking Anchorage Connection Hook Type	Anchorage Hook Gate Opening	Locking Harness Connection Hook Type	Weight Cap.	Color	Mfr. Model	Item No.
EZ Stop™											
¼" Vinyl-Coated Galvanized Cable	6 ft	1	—	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246188	**46W445**
Polyester Webbing	6 ft	2	1⅜"	310 lb.	Rebar	3"	Snap	310 lb.	Yellow	1246143	**46W450**
Polyester Webbing with Elastic Legs and Floating D-Rings	6 ft	2	1⅜"	310 lb.	Rebar	3"	Snap	310 lb.	Yellow	1246152	**46W452**
EZ-Stop™											
Nylon Webbing	6 ft	1	1 3/16"	310 lb.	Snap	¾"	Snap	310 lb.	Gray	1246229	**46W446**
Nylon Webbing	6 ft	2	1 3/16"	310 lb.	Snap	¾"	Snap	310 lb.	Gray	1246080	**46W447**
Polyester Webbing	3 ft	1	¾"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246012	**46W440**
Polyester Webbing	6 ft	1	¾"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246011	**46W439**
Polyester Webbing	6 ft	2	1½"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246022	**46W444**
Polyester Webbing	6 ft	1	¾"	310 lb.	Rebar	2¼"	Snap	310 lb.	Yellow	1246411	**425Y83**
Polyester Webbing, Polyurethane Coated	4 ft	1	1"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246225	**46W442**
Polyester Webbing, Polyurethane Coated	6 ft	1	1"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246226	**46W443**
Polyester Webbing with Adjustable Belt	6 ft	1	¾"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246234	**46W441**
Polyester Webbing with Floating Tie-Back D-Ring	6 ft	1	1"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246085	**46W437**
Polyester Webbing with Floating Tie-Back D-Rings	6 ft	2	1"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246070	**46W438**
EZ Stop™ III											
Polyester Webbing	6 ft	1	1⅜"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1244006	**2UZV4**
Force™ 2											
Elastic Webbing	6 ft	2	1"	310 lb.	Rebar	2¼"	Snap	310 lb.	Yellow	1246415	**425Y87**
Polyester Webbing	6 ft	1	12"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246167	**46W448**
Polyester Webbing	6 ft	2	12"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1246161	**46W449**
Polyester Webbing	6 ft	2	1⅜"	310 lb.	Aluminum Rebar	2½"	Snap	310 lb.	Yellow	1246145	**29EZ47**
Polyester Webbing	6 ft	1	1"	310 lb.	Rebar	2¼"	Snap	310 lb.	Yellow	1246414	**425Y86**
Polyester Webbing with Elastic Legs and Floating D-Rings	6 ft	2	1⅜"	310 lb.	Rebar	3"	Snap	310 lb.	Yellow	1246153	**46W451**
Retrax™											
Polyester Webbing	2 ft 6 in to 6 ft	1	1⅜"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1241460	**2UZV2**
ShockWave™2											
Polyester Webbing	4 ft 6 in to 6 ft	1	2"	310 lb.	Snap	¾"	Snap	310 lb.	Yellow	1244306	**2UZV5**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb.	(2) Snap	¾"	Snap	310 lb.	Yellow	1244406	**2UZV6**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb.	Snap	2½"	Snap	310 lb.	Yellow	1244412	**2UZV8**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb.	Aluminum Rebar	2¼"	Snap	310 lb.	Yellow	1244409	**2UZV7**
Polyester Webbing	6 ft	1	1⅞"	310 lb.	5K Carabiner	¾"	Snap	310 lb.	Gray	1244650	**3TNE1**
Polyester Webbing	6 ft	2	1⅞"	310 lb.	(2) 5K Carabiner	¾"	Snap	310 lb.	Gray	1244675	**3TNE2**
Polyester Webbing	6 ft	1	1 15/16"	310 lb.	Rebar	2¼"	Snap	310 lb.	Yellow	1246417	**425Y89**
Polyester Webbing with Rescue D-Rings on Legs	6 ft	2	1 15/16"	310 lb.	(2) Rebar	2½"	Snap	310 lb.	Yellow	1244750	**5KCW8**





Harness Extension and Positioning/Restraint Devices

- Meet ANSI and OSHA standards

Extension hooks to back of harness for self-retracting lifelines and lanyards. Positioning and restraint devices attach to harnesses that include side D-rings to allow hands-free work. Positioning Assembly provides support for workers on vertical surfaces.

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Item No.
D-Ring Harness Extension							
Polyester Web	18"	—	310 lb.	D-Ring	Snap	1231117	**2UZU2**
Positioning Assembly							
Rebar Chain	20"	2	310 lb.	Snap Hook	Snap Hook	5920050	**2UZF7**
Restraint Lanyards							
Polyester Webbing	6 ft.	1	310 lb.	Snap Hook	Snap Hook	1231106	**2UZU1**
Polyester Webbing	6 ft.	1	310 lb.	Snap Hook	Snap Hook	1231016	**2UZT9**
Nylon Rope	6 ft.	1	310 lb.	Snap Hook	Snap Hook	1232354	**2UZU3**


No. 45J295


No. 30HG86


No. 45J293


No. 30HG87

Condor

Positioning/Restraint Devices

- Meet ANSI standards

Rebar positioning devices provide support for workers in vertical applications. Restraint lanyards help keep users away from fall hazards.

Line Material	L	No. of Legs	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Weight Cap.	Item No.
Positioning Assemblies						
Chain Assembly	21"	2	Rebar Hook	Snap	310 lb.	**35KU74**
	23"	2	Swivel Rebar	Snap	310 lb.	**45J295**
Polyester Webbing	24"	2	Aluminum Rebar Hook	Aluminum Rebar Hook	310 lb.	**30HG86**
Restraint Lanyards						
Polyester Webbing with Adjustable Buckle	6 ft.	1	Snap	Snap	425 lb.	**45J293**
	6 ft.	2	Rebar Hook	Snap	425 lb.	**35KU75**
Galvanized Steel Cable, ¼" dia.	6 ft.	1	Snap	Snap	310 lb.	**30HG87**
Polyester Rope, ⅝" dia.	6 ft.	1	Snap	Snap	310 lb.	**49CD20**
	6 ft.	1	Rebar Hook	Snap	310 lb.	**49CD21**



No. 36WA39

Honeywell
MILLER

Positioning/Restraint Devices

- Meet ANSI and CSA standards

Positioning devices support workers on a vertical surface. Restraint Lanyards help keep workers from reaching an unprotected edge, to help prevent falls.

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Harness Connection	Mfr. Model	Item No.
Work Positioning and Restraint Lanyards								
Nylon Webbing with Adjustable Buckle	10 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	210WLS-Z7/10FTYL	**45JJ98**
Nylon Webbing, Adjustable	6 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	210WLS-Z7/6FTYL	**36WA28**
Nylon Webbing	6 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	213WLS-Z7/6FTYL	**36WA10**
Wire Rope	6 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	207LS-Z7/6FTG	**36WA36**
Positioning and Restraint Lanyards								
Vinyl-Coated Wire Rope	6 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	207NLS-Z7/6FTV	**36WA38**
Nylon Rope, ½" dia.	5 ft.	1	310 lb.	Carabiner	Snap Hook	Steel Snap Hook	201RS-8-Z7/5FT	**45JK09**
	6 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	203RLS-8-Z7/6FT	**45JK07**
	20 ft.	1	310 lb.	Snap Hook	Snap Hook	Steel Snap Hook	201RLS-2-Z7/20FTWH	**36WA39**
	25 ft.	1	310 lb.	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/25FTWH	**36WA34**
	50 ft.	1	310 lb.	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/50FTWH	**36WA31**
	75 ft.	1	310 lb.	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/75FTWH	**36WA32**
Positioning and Restraint Lanyards for Wind Industry								
Kernmantle Rope ½" dia.	4 ft.	1	310 lb.	Rebar Hook	Carabiner	Steel Carabiner	1014936/	**5RRF1**
Kernmantle Rope, ⅝" dia. with Rope Grab	6 ft.	1	310 lb.	Rebar Hook	Carabiner	Steel Carabiner	1014937/	**5RRF2**
Positioning Assembly								
Chain Assembly	25"	2	310 lb.	Rebar Hook	Snap Hook	Steel Swivel Snap Hook	6756RS-Z7/	**2JFD2**

PROTECTA

Positioning/Restraint Devices

- Meet ANSI standards

For better positioning when used with harnesses that include side D-rings.


No. 6ZLN8


No. 6ZLN7

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Item No.
Nylon Rope	6 ft.	1	310 lb.	Snap Hook	Snap Hook	1385501	**6ZLN8**
Galvanized Steel	22"	2	310 lb.	Rebar Hook	Snap Hook	1350200	**6ZLN7**

Harness D-Ring and Buckle Types



D-RING TYPES
Back D-Ring—Standard with all harnesses for fall protection.



Side D-Rings—Allow hands-free work when used with a positioning lanyard.



Mating Buckle—Push center bar buckle



Quick-Connect Buckle—Similar to a seat belt.



Front D-Ring—For climbing, confined space, and rescue applications.



BUCKLE TYPES
Friction/Pass-Thru Buckle—Pass webbing through bar and then back between bar and frame.



through square link.

Tongue Buckle—Similar to a belt buckle.



Cam Buckle—1-handed, simultaneous strap adjustment.



No. 19F395



No. 35KU70



No. 45J298



No. 19F394



No. 35KV11



No. 53RG06

Fall Protection Kits

- Meet ANSI Z359.1-2007
- 5-pt. harnesses

Personal safety systems combine the ABCs of fall arrest—anchorage, body wear, and connector—in a convenient, ready-to-use kit.

Condor

Includes	Size	Weight Cap.	D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	Item No.
General Use Kit									
6-ft. Shock-Absorbing Lanyard and Soft-Sided Storage Bag	Universal	310 lb.	Yes	No	No	MB	MB	MB	**19F395**
Aerial Lift Kit									
4½-ft. to 6-ft. Adjustable Restraint Lanyard and Soft-Sided Storage Bag	Universal	130 to 310 lb.	Yes	No	No	MB	TB	MB	**35KU70**
Roof Anchor Kits									
3-ft. Shock-Absorbing Lanyard with Manual Rope Grab, Reusable Hinged Roof Anchors, 50-ft. Copolymer Lifeline, and Storage Bucket	Universal	310 lb.	Yes	No	No	MB	MB	MB	**45J298**
3-ft. Shock-Absorbing Lanyard with Trailing Rope Grab, Reusable Hinged Roof Anchors, 50-ft. Polyester Lifeline, and Storage Bucket	Universal	310 lb.	Yes	No	No	MB	TB	MB	**19F394**
Personal Fall Arrest Safety Kit									
3-ft. Pass-Thru Anchor, 10-ft. Self-Retracting Lifeline, and Soft-Sided Storage Bag	Universal	310 lb.	Yes	No	No	FB	TB	MB	**35KV11**
High Capacity									
Gear Bag	S/M	310 lb.	Yes	No	Yes	FB	TB	MB	**53RG05**
	Universal	310 lb.	Yes	No	Yes	FB	TB	MB	**53RG06**

**** FB = friction buckle, MB = mating buckle, TB = tongue buckle.***



Honeywell MILLER

Ready Roofer® Fall Protection Kit

- Meets ANSI standards
- Universal size

Use on steep-pitched or flat-surface roofs. Additional roof anchors are located on page 1792.

Includes	Mfr. Model	Item No.
Fully Adjustable, Polyester Web Harness with Back D-Ring and Mating Buckle Leg Straps, 3-ft. Shock-Absorbing Lanyard, Reusable Roof Anchor with Attachment D-Ring, MicroLoc™ Compact Trailing Rope Grab, ⅝" dia. 25-ft. Copolymer Blend Rope Lifeline, and Waterproof and Storage Bucket	BRFK25-Z7/25FT	**45JK11**
Full Body Harness, Lanyard, 50-ft. Rope Lifeline, Anchor Strap, Reusable Roof Anchor, Rope Grab, Manual	BRFKT50-Z7/50FT	**53WC65**



No. 6ZLN0



No. 6ZLN1

PROTECTA

Fall Protection Kits

- Meet ANSI Z359.1
- Universal size

For short-term jobs, general compliance, or stand-by inventory. Kit No. 6ZLN1 is designed for roofers.

Includes	Mfr. Model	Item No.
5-pt. Harness, 6-ft. Lanyard, and Reusable Plastic Carrying Bucket	2199802	**6ZLN0**
5-pt. Harness, 6-ft. Lanyard, 50-ft. Lifeline, Rope Grab, Reusable Roof Anchor, and Plastic Carrying Bucket	2199803	**6ZLN1**

Rescue Helmets

- Kevlar® composite shell material
- One size fits most

R5 series rescue helmets feature a smaller design and are ideal for working in tight or confined spaces. Typical applications include USAR, paramedic and rescue, and industrial safety. R6 series helmets are lightweight and feature a ventilation system that keeps water out when closed. Adjustment system keeps helmets centered on the head. These helmets can carry multiple accessories and are particularly suited for firefighting, USAR, paramedic and rescue, and industrial safety applications.

Series	Includes	▶CHOOSE: Color	Mfr. Model	Item No.
Quick Release 3-Point				
R5	ESS Goggle Mounts	Blue, Red, White, Yellow	854	**J7492**
R5SL UTILITY	ESS Goggle Mounts	Blue, Red, White, Yellow	856	**J7493**
R5T	ESS Goggle Mounts, Built-in Light Holder	Blue, Red, White, Yellow	860	**J7494**
Adjustable 4-Point				
R6 DOMINATOR	Retractable Eye Protector, Dynamic Sealed Ventilation System™	Red, White	805	**J7485**
R6C DOMINATOR	Retractable Eye Protector with ESS Goggle Mounts	Red, White	805	**K2139**



Yellow
No. J7492



Red
No. J7485

GEMTOR
. . . when your life is on the line™

Class II and Class III Rescue Harnesses

Feature sturdy lightweight nylon webbing harnesses and triple locking pompier hook with 2" side opening gate.

541NYC AND 544FR SERIES CLASS II

- Meet NFPA 1983

Designed for fire service personnel. A sliding D-ring attachment point allows for use with escape systems. 541NYC Series features adjustable, color-coded leg straps. Choose left or right side harness opening to accommodate all types of bunker pants. 544FR Series flame-resistant harnesses are made of 1¾"W Kevlar® webbing with Kevlar thread. Can be worn as an internal harness when paired with compatible bunker pants, or externally with loops on outside.

Note: Measure waist over bunker pants to determine proper size selection.

543CH SERIES CLASS III

- Meet NFPA 1983

For rescue-only operations. Excellent mobility and functionality for lowering yourself or others as a rescuer, for use with an escape system, for rescuing a wearer, and more. 5 load-bearing attachment points. Feature front and back forged steel D-rings and aluminum carabiner. Adjustable, color-coded friction leg straps provide easy donning and size adjustment. Shoulder strap buckles.

▶CHOOSE: Fits Waist Size	Pompier Hook	Side Opening	Item No.
541NYC Series Class II			
30 in to 44 in, 36 in to 50 in, 44 in to 56 in	Aluminum	Left	**H8825**
		Right	**H8826**
	None	Left	**H8829**
		Right	**H8830**
544FR Series Class II			
34 in to 40 in, 36 in to 50 in, 46 in to 56 in	None	Right	**H8841**

Fits Waist Size	▶CHOOSE: Height Range	Side Opening	Item No.
543CH Series Class III			
30" to 44"	From 5 ft. to 5 ft. 5", From 5 ft. 3" to 6 ft., From 5 ft. 5" to 6 ft. 6"	Left	**H8837**
36" to 50"		Left	**H8838**
44" to 56"		Left	**H8839**



541NYC Series
No. H8825



544FR Series
No. H8841



543CH Series
No. H8837

PETZL

Cordex Rappelling Gloves

High-quality leather construction gloves feature neoprene cuffs with hook-and-loop closure and carabiner hole. Cordex Gloves have breathable stretch nylon back. Cordex Plus Gloves have reinforced palms and leather back with stretch nylon.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
Cordex	XS, S, M, L, XL	Beige, Black	K52	**G4833**
Cordex Plus	S, M, L, XL	Beige, Black	K53	**E4992**



Beige
No. G4833



No. 52TD42



No. 3NGF4



No. 3NGF2

PETZL

Connectors and Hardware

Carabiners—Carabiner with triact-lock automatic locking feature is for frequent manipulations. Use carabiner with screw lock for occasional manipulations or where foreign material could jam the automatic locking system. Both have a pear shape that is practical for easily connecting multiple items.

Anchor Plates—For creating multiple anchor systems. 19mm holes accommodate the locking sleeves of most carabiners. Meet NFPA 1983.

Swivels—Prevent rope twisting when the load is turning. No. 35ZM16 has a large opening to attach to pulleys and lanyards. Meet NFPA 1983.

Description	Color	Mfr. Model	Item No.
Carabiners			
William, Triact-Lock	Black	M36A TLN	**52TD42**
Go, Screw-Lock	Bright	P15	**13D953**
Spirit, No Lock	Silver	M53 S	**13D946**
Anchor Plates			
PAW, Small	Red	P63 S	**3NGF3**
PAW, Medium	Blue	P63 M	**3NGF4**
PAW, Large	Red	P63 L	**3NGF5**
Swivels			
Swivel, 2-Person Load	Black/Red	P58 L	**3NGF2**
Gated Swivel	Black	P58 SO	**35ZM16**

Find Petzl Rescue Rope on page 1098.


No. 6TET3


No. 6TER7


No. 35ZM15


No. 6TET4


No. 30RU11

Pulleys

Gemini and Twin—Double pulleys have side plates designed for use with a Prusik friction hitch in lightweight progress capture systems. No. 3NGF1 accepts up to 3 carabiners.
- **No. 3NGF1 meets NFPA 1983 G**

Rescue—High-strength, high-efficiency pulley for maneuvering heavy loads and for intensive use. Accepts up to 3 carabiners.

Minder—Prusik minding pulley accepts up to 3 carabiners.
- **Meets NFPA 1983 G**

Pro—High-efficiency lossproof pulley keeps things simple when setting up a hauling or load deviation system. The side plate locks under load.
- **Meets NFPA 1983 T**

Kootenay—Large rope channel allows passage of joining knots. Locking pins on sheave allow pulley to be used as an anchor.

Jag Double and Jag Traxion—High-efficiency pulleys are designed to work together to make a 4:1 haul system. Jag Traxion double-progress capture pulley has a toothed cam with self-cleaning slot for optimal performance with frozen or muddy ropes.
- **Meet NFPA 1983 T**

Pro Traxion—Allows rope installation while pulley is connected to the anchor. Large diameter sheave and side plate locks are suitable for hauling heavy loads.
- **Meets NFPA 1983 T**

Description	Mfr. Model	Item No.
7 to 11mm Rope Dia.		
Gemini	P66A	**6TET3**
7 to 13mm Rope Dia.		
Twin	P65A	**3NGF1**
Rescue	P50A	**6TER7**
Minder	P60A	**3NGE9**
Pro	P46	**35ZM15**
7 to 19mm Rope Dia.		
Kootenay	P67	**6TET4**
8 to 11mm Rope Dia.		
Jag Double	P45	**35ZM18**
Jag Traxion	P54	**35ZM19**
8 to 13mm Rope Dia.		
Pro Traxion	P51A	**30RU11**


No. 35ZM11


No. 13D944

Ascenders and Descender

Ascenders—Designed for ascent with 8 to 13mm dia. rope.
- **Meet NFPA 1983 T**

Descender—Distributes friction and heat to help preserve the rope and doesn't twist it. The design and configuration of the RACK brake bars make it simple to set up and insert the rope. The lower bar is removable and easy to put in place.

Description	Color	Mfr. Model	Item No.
Ascenders			
Right-Handed	Gold	B17ARA	**35ZM11**
	Black	B17ARN	**35ZM13**
Left-Handed	Black/ Yellow	B17ALA	**35ZM12**
Descender			
9 to 13mm Rope	Black	D11	**13D944**


No. 45MP74


No. 45MP79


No. J4186


No. J4185

Personal Flotation Devices (PFDs)

- **15½-lb. buoyancy**
- **Durable nylon outer shell**
- **USCG Type III Approved**
- **No. 444M92: 17½-lb. buoyancy, vinyl-dipped outer shell, USCG Type V Approved**

Life Vests—Feature poly-twill inner construction and 2 adjustable belts to hold jacket securely in place. No. 45MP78 features a leg strap for added safety, a convenient grab strap that allows for quick recovery, and a pop-up pillow for added head support. No. 45MP77 comes with a leg strap for additional safety. Nos. 45MP74, 45MP75, and 45MP79 feature a chest strap to help keep the vest from riding up. No. 45MP79 adds reflective material on the front and back for greater visibility in low light conditions. No. 444M92 has opening in back to accommodate most fall harnesses, plus adjustable shoulders and sides.

Life Vests with Dual Chest Pockets—Feature an outer shell with polyethylene foam and 2 adjustable encircling belts, a heavy-duty zipper, and large arm holes that allow for more freedom of movement. Belts are hidden to help reduce snags. Reflective material on front and back for greater visibility in low light conditions. Include 2 large cargo pockets, dual chest pockets, and 2 D-ring holders for small attachments.

Mesh Shoulder Life Vests—Include an outer shell with polyethylene foam. The mesh shoulder, back, and sides help to keep you cool in warm weather. Feature 2 adjustable encircling belts and a heavy-duty zipper. Belts are hidden to help reduce snags. The reflective material on front and back allows for greater visibility in low light conditions.

Description	Color	▶CHOOSE: Size	Item No.
Life Vests			
Child's Lightweight Nylon Vest	Red	Child Less Than 50 lb.	**45MP78**
	Red	Child 30 to 50 lb.	**45MP77**
	Red	Child 50 to 90 lb.	**45MP76**
Adult Lightweight Nylon Vest	Blue	Adult Universal	**45MP74**
	Blue	Adult Oversize	**45MP75**
Adult Nylon Vest with Reflective Tape	Orange	Adult Universal	**45MP79**
Adult Vinyl Vest with Reflective Tape	Orange	Adult Universal	**444M92**
Life Vests with Dual Chest Pockets			
Dual Chest Pockets	Orange	S/M, L/XL, 2XL/4XL, 4XL/7XL	**J4186**
Mesh Shoulder Life Vests			
Mesh Shoulder Vest	Orange	S, M, L, XL, 2XL, 3XL	**J4185**
Mesh Shoulder Vest with Dual Cargo Pockets	Orange	S, M, L, XL, 2XL, 3XL	**J4187**


No. 5UYD8



No. 5UYD7


No. 12L912

Inflatable Personal Flotation Devices (PFDs)

▪ Fit chest size: 30" to 52"

Hydrostatic inflator on these devices automatically inflates vest when submerged in 4" or more of water. They withstand use in the most severe marine environments. Feature status indicator window, strobe light holder, safety whistle, and SOLAS reflective tape.

Commercial Vest—Features a low profile for maximum mobility, 420-denier coated nylon shell, comfortable neoprene collar, back-up oral inflation tube, and D-ring for kill-switch attachment. Offer Type II performance for commercial use. Meets ANSI 107-2004 Class 2 Standard when worn over an ANSI garment.

▪ USCG Approved Type II/Type V

Work Vest—Offers enhanced mobility and reduced heat stress even in constant wear situations. Approved for use on inspected and uninspected vessels of any size. Features durable polyurethane-coated nylon shell for improved puncture and abrasion resistance. Includes inflator cover to protect inflator cap, back-up oral inflation tube, and manual activation cord.

▪ USCG Approved Type V

Compact Tactical Vest—Designed specifically for body armor and tactical vests that use a Modular Lightweight Load-carrying Equipment (MOLLE) webbing system.

Conversion Kit—Reconfigures No. 12L912 PFD (sold separately, this page) from automatic to manually activated inflation.

Description	Color	Mfr. Model	Item No.
Commercial Vest	Black/Yellow	MD3183-T3	**5UYD8**
Work Vest	Orange	MD3188	**5UYD7**
Compact Tactical Vest	Black	MD3196	**12L912**
Conversion Kit for No. 12L912	—	MA7219	**12L919**



No. 5UYA8


No. 14U325


No. 11N741



No. 5UYA9

Water Rescue Accessories and Kit

Rescue Stick™—Provides rapid flotation assistance to a person at risk of drowning. 14" yellow baton inflates in seconds to a large horseshoe shape once contact is made with water.

Throw Bags—No. 14U325 high-visibility, yellow nylon throw bag and connected rope both float to aid with water or distance rescue situations. No. 11N741 attaches to the floating rope inside and has 1"W reflective tape for nighttime visibility. Features a mesh top and quick-release carrying strap.

Water Rescue Kit—Packed in a heavy-duty storage case, kit includes inflatable rescue stick, inflatable personal flotation device (PFD), and a throw bag with 75-ft. floating rope.

Description	Mfr. Model	Brand	Item No.
Rescue Stick™	MRD100	Mustang Survival	**5UYA8**
Throw Bag w/50-ft. Rope	WP-064	World Prep	**14U325**
Throw Bag w/75-ft. Rope	MRD075	Mustang Survival	**11N741**
Water Rescue Kit	MRK110	Mustang Survival	**5UYA9**


No. 9YM14


No. E7908


No. E7907



No. 46G116


No. 46G118

Industrial Foam Personal Flotation Devices (PFDs)

Universal Fit Vest—3 belts adjust to fit adults 80 lb. and up. Large arm holes for mobility. SOLAS-grade tape on shoulders. Great for boat crews.

▪ USCG Approved Type III

4-Pocket Vest—Short-waisted vest has 4 D-rings for lanyard attachment. 50 mph dynamic strength-tested to stand up to tough conditions. Large arm holes for mobility.

▪ USCG Approved Type III

Mesh Vest—High waist reduces interference with tools. Features mesh shoulders for mobility and comfort, large front pockets with hook-and-loop closure, side adjustments for dual sizing, and SOLAS-grade reflective tape on front and back.

▪ USCG Approved Type III

Offshore Vests—The first to have earned 4 regulatory approvals in a single design, these vests ease the hassle and cost associated with complying to a variety of vessel regulations.

▪ USCG Approved Type I, MED, SOLAS, and TC Approved

Swift Water Rescue Vest—Developed specifically to meet the needs of rescue professionals facing the challenges of swift water. Customizable fit improves comfort and operational performance in and out of the water. Black color with fluorescent yellow-green SOLAS tape improves visibility. 2 large self-draining pockets and MOLLE webbing on shoulders and back make it easy to carry essential gear.

▪ USCG Approved Type V

▶CHOOSE: Fits Chest Size	Color	Mfr. Model	Item No.
Universal Fit Vest			
30" to 52"	Orange	MV3104 T1	**9YM14**
4-Pocket Vest			
32" to 36", 36" to 40", 40" to 44", 44" to 48"	Orange	MV3128 T2	**E7908**
Mesh Vest			
34" to 42", 42" to 50", 50" to 58", 58" to 64"	Orange	MV1254 T1	**E7907**
Offshore Vests			
Children 33 to 90 lb.	Orange	MV8035	**46G117**
Adults 30" to 52"	Orange	MV8040	**46G116**
Swift Water Rescue Vest			
30" to 52"	Black/Yellow	MRV150	**46G118**


No. 2FLK2


No. 2FLK6

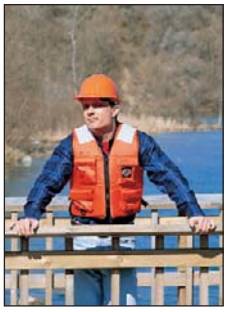

No. H6505


No.G4792


No. 2FLJ3


No. 3MUA2


No. 3MUA4


No. J5705

Personal Flotation Devices (PFDs)

Include 3M™ Scotchlite™ SOLAS-grade reflective material for high visibility.

Crew Mate™ and Deluxe Merchant Mate™ II Vests—No. 2FLK2 features side-release buckles, tie waist belt, and contoured neckline. No. 2FLK6 has a nylon shell and lining with foam-filled collar, 2 chest adjusters, and hook-and-loop patch on shoulder to mount flashlight. Both have a min. of 22-lb. buoyancy. USCG Approved Type I.

Work Zone Gear™ Vests—Feature zip-front, 2 body straps, 2 front pockets with hook-and-loop closure, and D-rings for attaching gear. Min. of 15½-lb. buoyancy. USCG Approved Type III.

Versatile™ Vests—Nylon shell features 4 pockets with full hook-and-loop closures. Has side adjustment tabs for a secure fit. Min. of 15½-lb. buoyancy. USCG Approved Type III.

Force™ II Vests—PVC-coated foam outer fabric retains buoyancy even when punctured. Opening on back fits most brands of fall protection harnesses. Min. of 7½-lb. buoyancy. USCG Approved Type V.

Ultra Commercial Automatic Vest—Automatically inflates when submerged in water; can also inflate manually by pulling lanyard or with oral inflation tube. Includes emergency whistle, cylinder, bobbin, and mesh storage bag. Min. of 33¾-lb. buoyancy. USCG Approved Type V, III, or II when worn in accordance with owner's manual.

Work Master™ Vest—Features a hinged back panel, flotation collar on vest, body belt with belt tunnel, and snag-resistant buckle. Offers quick adjustment slides and easy-snap buckles for a snug fit. USCG Approved Type III/V.

First Mate™ Vests—Adjustable side tabs slide quickly for a customizable fit. 4 hook-and-loop pockets and 2 D-rings keep tools close. Feature 200D nylon shell and Vislon® zipper. USCG Approved Type III.

Adult Classic Vest—Jacket has 3 webbed 1" straps that adjust for a comfortable fit. Features soft polyester shell and durable Crosstech® flotation foam. Open-sided design for more breathability. USCG Approved Type III.

▶CHOOSE: Fits Chest Size/Size	Color	Mfr. Model	Item No.
Crew Mate™ Vest			
30" to 52"	Orange	I120ORG	**2FLK2**
Deluxe Merchant Mate™ II Vest			
30" to 52"	Orange	I600ORG	**2FLK6**
Work Zone Gear™ Vests			
36" to 38", 40" to 42", 44" to 46", 48" to 50", 50" to 52", 54" to 56"	Orange	I424ORG	**F8417**
36" to 38", 40" to 42", 44" to 46", 48" to 50", 54" to 56"	Yellow	I424YEL	**H6505**
50" to 52"	Black/Yellow	I424YEL	**H6505**
Versatile™ Vests			
36" to 38", 40" to 42", 44" to 46", 48" to 50", 50" to 52", 54" to 56"	Orange	I465ORG	**G4792**
Force™ II Vests			
30" to 52"	Orange	I223ORG	**2FLJ3**
52" to 62"	Orange	I223ORG	**2FLJ4**
Ultra Commercial Automatic Vest			
30" to 52"	Black	1470	**3URV3**
Work Master™ Vest			
Universal	Orange	2000004520	**3MUA2**
First Mate™ Vests			
S/M, L/XL, 2XL	Orange	20000114	**J5705**
Adult Classic Vest			
30" to 52"	Red	3000004474	**3MUA4**


No. J5704


No. 2NCV1

Cold Water Survival Wear

3M™ Scotchlite™ SOLAS-grade orange reflective material increases visibility.

Challenger™ Anti-Exposure Work Suit—Designed to keep you warm on the boat and in the water. Adjustable ankle, thigh, and wrist straps help trap the heat, and an insulated hood keeps out harsh wind and rain. Inflatable neck support keeps you floating in position. Durable nylon shell with PVC flotation foam.

- USCG Approved Type V

Cold Water Immersion Suits—Flame-retardant 5mm stretchable neoprene offers protection from hypothermia in the water. Suits include faceshield for spray protection, inflatable head support, SOLAS whistle, nonslip soles, and 5-finger insulated gloves.

- USCG, SOLAS, MED Approved

▶CHOOSE: Size	Color	Mfr. Model	Item No.
Challenger™ Anti-Exposure Work Suit			
S, M, L, XL, 2XL, 3XL	Orange	30000029	**J5704**
Cold Water Immersion Suits			
Universal	Orange	2000027982	**2NCV1**
Oversize	Orange	I590ORG	**2NCV2**


No. 2FLK5


No. 3MUA3


No. 2FLK4

Water Safety Equipment

Description	Mfr. Model	Item No.
Polyethylene Ring Buoy w/Encircling Rope, 30 dia., USCG Type IV	I030ORG	**2FLK5**
Flotation Cushion w/1" Webbed Strap, USCG Type IV	3000004483	**3MUA3**
Throw Bag w/70-ft. 1800-lb. Tensile Rope and 1" Reflective Tape	I021ORG	**2FLK4**
Throw Bag w/100-ft. 1800-lb. Tensile Rope and 1" Reflective Tape	I022ORG	**3NGH6**

Find Safety Vests on page 1905; Safety Lights and Baton Flares on page 1906.

Tactical Jackets, Parkas, and Raincoat

5.11 ALWAYS BE READY

A. Response Jacket™—Wind- and water-repellent, 100% polyester microfiber shell is ideal for spring weather. Features hidden ID panels on the chest.

B. Big Horn Jacket™—Microfiber shell and fleece lining, with Back-Up Belt System™: Hidden chest pockets that allow quick access to critical gear. Side zippers on left and right side give easy access to sidearm or provide added ventilation.

C. Tactical Fleece Jacket—Wind-resistant, 100% polyester fleece with 100% nylon panels. Abrasion-resistant collar, shoulders, biceps, and back of forearm. Side-seam zippers allow sidearm access. Zippered exterior hand warmer pockets and interior pockets. Can be used with 3-in-1 Parka No. D4702.

D. Chameleon Jacket™—100% polyester bonded soft shell fabric, features a drop tail, water and wind repellency, and 3 zip-out ID panels.

E. Sabre Jacket 2.0™—Designed for superior wet weather performance with waterproof, breathable 100% microfiber softshell fabric and fully seam-sealed construction. Features the Quixip™ quick-access side zipper. Numerous pockets provide ample storage. Additional features include 3 zip-out ID panels, large shoulder patches, and a removable hood.

F. 3-in-1 Parka™—High-performance waterproof and breathable outer jacket is resistant to tears and abrasion. The fleece inner liner is extremely durable and wind-resistant. 100% nylon shell. Side zippers ease access to duty belt and provide ventilation. ID panels on the chest and back are removable.

G. 5-in-1 Jacket™—100% nylon shell has a removable fleece liner with zip-off sleeves, enabling the jacket to be worn 5 different ways. Waterproof, breathable construction. Waist-length with side zippers for ventilation and access to duty belt. Removable ID panels on chest and back.

H. Responder Parka™ and Responder Hi-Vis Parka™—Waterproof, breathable parkas are resistant to bloodborne pathogens. High-performance seam-sealed construction features 100% nylon shell with removable polyester fleece liner, hook-and-loop wrist closures and storm flaps, removable hood, and zippered armpit vents. 5.11® Traxion™ nonslip shoulder panels. ID panel at right chest. High-visibility model has 3M™ reflective trim.

- **No. D4723 meets ANSI Class II, Level II/ISEA 107-2010**

I. Reversible Hi-Vis Rain Coat—100% nylon oxford shell in a fully waterproof, seam-sealed design. Adjustable-length jacket serves as a full-coverage coat, or snap off the lower portion to parka length. Features a full snap front, pass-through pockets for easy access to duty belt, shoulder mic loops, integrated badge tab, and a snap-adjustable sleeve hem.

- **High-visibility yellow side meets ANSI/ISEA 107-2015 Class III, Type R**

Key	Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
A	Response Jacket™	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy	48016	**D4705**
B	Big Horn Jacket™	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Navy	48026	**H0223**
C	Tactical Fleece Jacket	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy, Sheriff Green	48038	**D4716**
D	Chameleon Jacket™	XS, S, M, L, XL, 2XL, 3XL	Black, Dark Navy, Moss/Black	48099	**D4724**
E	Sabre Jacket 2.0™	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Coyote, Dark Navy, Moss	48112	**G0449**
F	3-in-1 Parka™	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy, Range Red	48001	**D4702**
G	5-in-1 Jacket™	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy	48017	**D4707**
H	Responder Parka™	S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy	48063	**H0228**
	Responder Hi-Vis Parka™	S, M, L, XL, 2XL, 3XL, 4XL	Dark Navy, Range Red, Royal Blue	48073	**D4723**
I	Reversible Hi-Vis Rain Coat	S, M, L, XL, 2XL, 3XL	Reversible Black/ Hi-Visibility Yellow	48125	**H0237**


A.


B.


C.


D.


E.


F.


G.


H.
No. D4723


I.

Find Safety Vests on page 1905; Safety Lights and Baton Flares on page 1906.


A.


B.


C.


D.


E.


F.


G.


G. Womens


H.


I.


J.


K.

Tactical Shirts

A. Utili-T™ Crew-Neck T-Shirt—Features a 1" high-density collar and is cut long to stay tucked in. Moisture-wicking 100% ringspun cotton.

B. Utility Polo—Cotton/polyester pique knit material is wrinkle- and fade-resistant, with a no-roll collar, drop tail with side splits, and dual-pen pockets on the sleeve.

C. Tactical Polo—100% cotton jersey is shrink-, wrinkle-, and fade-resistant for a lasting neat, clean, professional appearance and fit. Stay-flat, no-roll collar. Mic-clip attachments at shoulders and sternum. Short sleeves. Pen pockets on left sleeve.

D. Professional Polo—Made of comfortable, hard-wearing 100% cotton pique knit. Includes convenient left-sleeve pen pockets. Looks neat, clean, and professional. Wrinkle-, shrink-, and fade-resistant. Stay-flat, no-roll collar. Short sleeves.

E. Performance Polo—100% snag-resistant polyester jersey is wrinkle-, shrink-, and fade-resistant. Moisture-wicking, antimicrobial material helps reduce odor-causing bacteria. Stay-flat, no-roll collar. Short sleeves. Dual-pen pockets on left sleeve.

F. Bike Patrol Shirt—Performance-fit shirt has flexible reflective tape on the sleeves, chest, and back for visibility, plus a longer drop tail for neatness and underarm gussets for range of motion. Details include a mic loop at the placket and a chest pen pocket. 100% moisture-wicking polyester jersey with antimicrobial treatment.

G. Helios Polo Shirt—4.5 oz. snag-resistant jersey knit fabric offers moisture-wicking, quick-drying, and odor control characteristics. Integrated underarm gussets ensure a full range of movement, while a pen pocket, front mic loop, and shoulder mic pockets allow you to keep important accessories within easy reach.

H. Tactical® Shirts—100% cotton canvas with proprietary hidden document pockets, cape back with mesh lining, and hidden button-down collar. Long Sleeve No. D6797 features adjustable cuffs and sleeve keepers.

I. Taclite® Pro Shirts—Lightweight, breathable 65/35 polyester/cotton ripstop material is PTFE-treated to resist spills and stains. Feature proprietary hidden document pockets, cape back with mesh lining, and hidden button-down collar.

J. ¼-Zip Job Shirt—Shirt features a Break-Through™ chest pocket with hook-and-loop divider that can carry a full-size radio. Hand warmer pockets, mic-clip pockets, and pen pockets provide additional storage space. Cotton/poly fleece with fade-, shrink-, and wrinkle-resistant finish.

K. Rapid Assault Shirt—Designed for breathability while under full armor. Lightweight cotton/poly/spandex knit fabric wicks perspiration and dries quickly. Side mesh panels improve air flow to keep the wearer cool. Saddle-shoulder design allows maximum range of motion. Flat-lock seams reduce chafing. ½-zip front. Woven collar can be worn up or down. Large dual shoulder pockets offer additional storage.

Key	Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
A	Utili-T™ Crew-Neck T-Shirt, Pkg. of 3	S, M, L, XL, 2XL, 3XL	ACU Tan, Black, Dark Navy, White	40016	**D4688**
B	Utility Polo	XS, S, M, L, XL, 2XL	Black, Dark Navy, Heather Gray, Silver Tan	41180	**H5473**
C	Tactical Polo	S, M, L, XL, 2XL, 3XL	Black, Dark Navy, Heather Gray, Silver Tan, White	71182	**D6792**
D	Professional Polo	XS, S, M, L, XL, 2XL, 3XL	Academy Blue, Black, Dark Navy, Heather Gray, Range Red, Silver Tan, White	41060	**D4693**
E	Performance Polo	XS, S, M, L, XL, 2XL, 3XL	Black, Charcoal Gray, Dark Navy, LE Green, Range Red, Silver Tan, TDU Green, White	71049	**D4752**
F	Bike Patrol Shirt	XS, S, M, L, XL, 2XL, 3XL	Reflective Yellow, Royal Blue	71322	**H0286**
G	Helios Polo, Short Sleeve	S, M, L, XL, 2XL, 3XL	Academy Blue, Black, Charcoal, Dark Navy, Heather Gray, Silver Tan	41192	**J5699**
	Helios Womens Polo, Long Sleeve	S, M, L, XL	TDU Green	62070	**J5698**
H	Tactical® Shirt, Short Sleeve	XS, S, M, L, XL, 2XL, 3XL	Black, Coyote, Fire Navy, Gray, Khaki, OD Green, Sage	71152	**D4762**
	Tactical® Shirt, Long Sleeve	XS, S, M, L, XL, 2XL, 3XL	Black, Coyote, Fire Navy, Gray, Khaki, OD Green	72157	**D6797**
I	Taclite® Pro Shirt, Short Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Battle Brown, Black, Charcoal, Dark Navy, Storm, TDU Green, TDU Khaki, White	71175	**D6787**
	Taclite® Pro Shirt, Long Sleeve	S, M, L, XL, 2XL, 3XL	Black, Charcoal, Coyote, Dark Navy, TDU Green, TDU Khaki, Tundra, White	72175	**D6807**
J	¼ Zip Job Shirt	XS, S, M, L, XL, 2XL	Black, Fire Navy, Heather Gray	72314	**G0460**
K	Rapid Assault Shirt	S, M, L, XL, 2XL, 3XL	Multicam®	72185	**G0455**

Find Safety Vests on page 1905; Safety Lights and Baton Flares on page 1906.


A.


C.


D.


E.

5.11 ALWAYS BE READY

Tactical Shorts and Pants

A. Taclite® Pro Shorts—65/35 polyester/cotton ripstop fabric is tough, lightweight, breathable, and fade- and wrinkle-resistant. PTFE-treated for stain and spill resistance. Action waist, gusseted crotch. YKK® zippers and Prym® snaps.

B. Tactical® Pants—100% cotton canvas for superior comfort, durability, and performance. Elastic waist and reinforced seat and knees with trademarked rear strap and slash pockets. YKK® zippers and Prym® snaps. Accept Kneepad Inserts No. 6YVG3 or No. 52KJ79.

C. Taclite® Pro Pants—65/35 polyester/cotton ripstop fabric is wrinkle- and fade-resistant, tough, lightweight, and breathable. PTFE-treated for stain and spill resistance. Double-reinforced seat and knees. Trademarked rear strap and slash pockets and quick-access multipurpose pocket. YKK® zippers and Prym® snaps. Accept Kneepad Inserts No. 6YVG3.

D. Stryke Pants—High-performance poly/cotton ripstop is fade-, wrinkle-, stain-, and soil-resistant, with built-in stretch. Multiple pockets provide ample storage. Reinforced knees have interior pockets that accept Kneepad Inserts No. 6YVG3. Men's pants have a self-adjusting waistband. Women's pants have a stretch, fitted waistband.

E. TDU® Pants—PTFE-treated poly/cotton ripstop. Numerous pockets, including 2 side pockets that can each hold 2 AR magazines. Self-adjusting waistband for comfort. Blousing straps for uniform appearance. Accept Kneepad Inserts No. 6YVG3 or No. 52KJ79.

F., G. Kneepad Inserts—Specially formulated to fit inside 5.11 tactical pants. Universal size.

Key	Description	▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Mfr. Model	Item No.
Taclite® Pro Shorts						
A	Men's	Even Sizes 28 to 44	9	Black, Coyote, Dark Navy, TDU Green, TDU Khaki, Tundra	73287	**D6814**
Tactical® Pants						
B	Men's	Even Sizes 28 to 44	30, 32, 34, 36	Black, Coyote, Fire Navy, Gray, Khaki, OD Green, Tundra	74251	**D6821**
	Women's	Even Sizes 2 to 20	Regular or Long	Black, Fire Navy, Khaki	64358	**D4735**
Taclite® Pro Pants						
C	Men's	Even Sizes 28 to 54	30, 32, 34, 36	Black, Charcoal, Coyote, Dark Navy, Stone, TDU Green, TDU Khaki, Tundra	74273	**D6856**
	Women's	Even Sizes 2 to 20	Regular or Long	Black, Charcoal, Dark Navy, TDU Green, TDU Khaki	64360	**D4744**
Stryke Pants						
D	Men's	Even Sizes 28 to 44	30, 32, 34, 36	Black, Khaki, TDU Green	74369	**G0478**
	Women's	Even Sizes 2 to 20	Regular or Long	Black, Dark Navy, Khaki	64386	**H5496**
TDU® Pants						
E	Men's	XS to 4XL	Short, Regular, or Long	Black, Brown, Dark Navy, TDU Green, TDU Khaki	74003	**G0466**
		XS to 3XL	Short, Regular, or Long	Multicam®	74350	**G0477**
Neoprene Kneepad Inserts						
F	For Tactical®, Taclite® Pro, Stryke, and TDU Pants	—	—	Black	59008	**6YVG3**
Foam Kneepad Inserts						
G	For Tactical® and TDU® pants	—	—	Gray	56306	**52KJ79**

Tactical Gear

DAMASCUSGEAR

- Black color

Lightweight Patrol Gloves—Form-fitting gloves slip on easily. Lycra® twill backhands provide stretch and breathability. Palm has perforated air vents and elasticized wrist opening.

Unlined Hybrid Duty Gloves—These all-purpose gloves are good for year-round use. Feature easy-on/off pull tab with low-profile knuckle zones. Reinforced palm panels and Spandura® backs for added strength. Hook-and-loop wrist closure.

All-Leather Gloves with Knuckle Armor—All-purpose, contoured, tight-fitting gloves have integrated hard knuckles, leather piping, and reinforced palm panels for extra durability. Tab pull allows for easy on/off. Hook-and-loop closure.

Nitro™ Kevlar® Tactical Gloves—Carbon-Tek™ fiber knuckles help deflect blows and debris. Kevlar on back of hands is flame-/flash-retardant and cut-resistant. Premium quality, digital-print aniline finished cowhide palms and trim. Hook-and-loop closure for a secure fit.

Imperial™ Neoprene Knee/Shin Guards—Silent and form-fitting knee/shin guards feature durable neoprene outer shell with reinforced stitching throughout.

Imperial™ Hard Shell Knee Pads—Hard shell polyurethane thermoplastic nonslip knee caps and reinforced foam padding for greater shock absorption and comfort.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
Lightweight Patrol Gloves	S, M, L, XL, 2XL	ATX5	**H8845**
Unlined Hybrid Duty Gloves	S, M, L, XL, 2XL	ATX65	**H8846**
All-Leather Gloves with Knuckle Armor	S, M, L, XL, 2XL	ATX95	**H8847**
NITRO™ Kevlar® Tactical Gloves	S, M, L, XL, 2XL	DMZ33	**H0764**
Imperial™ Neoprene Knee/Shin Guards	Universal	DNSG-	**6UZE1**
Imperial™ Hard Shell Knee Pads	Universal	DKP-B	**6UZC1**


No. H8847


No. H0764


No. 6UZE1

Find Safety Vests on page 1905; Safety Lights and Traffic Road Flares on page 1906.



No. K2062



No. K2063

RINGERS GLOVES

Tactical Gloves

- Black color
- CE EN388 2016, EN407, TAA Compliant

Lightweight and flexible, flame-resistant shooter gloves have Kevlar stitching for increased durability, plus touchscreen compatible middle fingertip for use with most electronic devices. Constructed to fit the natural contour of the hands, ideal for strategic multi-tasking in a variety of critical tactical situations. Offer an adjustable hook-and-loop cuff with a convenient loop for attaching to hooks on vests, belts, and uniforms.

General Duty Gloves—Flame resistant Nomex® covering top of the hand and fingers. Goatskin leather palm with patch for durability and contoured fit. Specifically designed trigger finger and thumb for enhanced tactile feel. Leather fingertip patches on top of hand to reinforce wear and tear zones.

Hard Knuckle Gloves—Low profile FR Thermal Plastic Rubber (TPR) for maximum impact protection on fingers, and thumb areas. Leather reinforcement patches on fingertips extend glove life. Lightweight FR Nomex materials protect the top of hand areas. Premium goatskin leather palm for durability and contoured fit. PVC palm patch with padding on palm heel for extra durability. Custom designed finger and thumb construction for enhanced trigger and tactile feel. PVC knuckle protector laminated with Kevlar blended fabric.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
General Duty	XS, S, M, L, XL, 2XL	R-532	**K2062**
Hard Knuckle	XS, S, M, L, XL, 2XL	R-536	**K2063**



BATES

5" Tactical Boots with Safety Toe

- Black color
- ASTM F2413-11

Flexible, lightweight side-zip boots feature a full-grain leather upper with 1680 denier nylon, breathable mesh lining, cushioned removable insert, YKK® nylon zipper closure, ASTM-rated nonmetallic composite toe, and slip-resistant rubber outsole.

Note: Men's sizes are shown unless specified. All sizes are available in medium and wide widths.

Toe Type	▶CHOOSE: Size	Mfr. Model	Item No.
Composite-Toe	4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14, 15	E02264	**H0400**



BATES

8" Velocitor Tactical Boots

- Black color

Lace up boots provide the performance you need without sacrificing athletic styling and versatility. Designed with a lightweight exoskeleton that enhances comfort, flexibility, and support. Breathable mesh lining and cushioned EVA midsole add comfort while leather and mesh upper and rubber outsole with TPU arch support add durability. Cement construction.

Note: Men's sizes are shown unless specified. All sizes are available in medium and wide widths.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
Plain Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14, 15	E04032	**H6189**



No. J0411

No. E7871

Thorogood Since 1892

8" Waterproof Side-Zip Boots

- Black color

High-performance, plain toe boots are lightweight, designed for comfort, and bloodborne pathogen compliant. 100% nonmetallic. YKK® zipper with hook-and-loop closure.

Note: Men's sizes are shown unless specified. All sizes are available in medium and wide widths.

The Deuce™—Full-grain leather/400g air mesh upper with slip-resistant outsole for multisurface traction. Shock-absorbing removable polyurethane insole with air flow vents. Cement construction.

GEN-flex²—Tumbled oiled, full-grain leather and 1000-denier nylon upper, removable polyurethane footbed, and dual-density rubber sole. Spacer mesh lining. The EVA midsole has a gel heel insert for comfort. Goodyear storm welt construction.

▶CHOOSE: Size	Mfr. Model	Item No.
The Deuce™		
7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14, 15	834-6219	**E7871**
GEN-flex²		
4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14, 15	834-7991	**J0411**

Fire Helmets

- Fits head size 6⅜" to 8⅜"
- Meet NFPA 1971-2000
- Fire helmet accessories are available online, see Grainger.com®

Composite helmets offer both thermal and impact protection, resisting both high heat and flames. Soft black Nomex® chin strap features one-hand, quick-release buckle and postman slide for quick removal and adjustment. Shell-release (system) allows escape from snag hazards if helmet is knocked off or hung up. Defender® visor offers eye protection, plus it's easy to use, maintain, and change out.

660C Metro™—Withstands various applications including firefighting, technical rescue, and EMS and confined space. Proprietary tube-lock system helps absorb impact.

1010 Traditional—Ideal for structural and proximity firefighting. Flexes with impact to absorb energy.

Description	▶CHOOSE: Color	Item No.
660C Metro™		
Fire Helmet with Modern Glass-Filled Polymer Faceshield	Black, Blue, Red, White, Yellow	**E0140**
1010 Traditional		
Fire Helmet with Yellow Nomex® Ear/Neck Protector, Faceshield	Red	**3PTV1**



No. E0140
Yellow



No. 3PTV1

Firefighting Hoods

- Meet NFPA 2018 Edition

Face and neck protection is offered in materials and styles to suit your department's specific needs. Hoods have ½" elastic sewn into the face opening for snug fit, bar tacks on stress points, and double-needle binded bottom. Seams are flatlock-stitched with Nomex® thread for comfort and durability,

Style	L	Color	Item No.
Nomex®/Lenzing			
Fitted	18"	Natural	**40P393**
Fitted	18¼"	Black	**45KG04**
Regular	20"	Black	**45KG05**
Regular	21"	Natural	**40P402**
Deluxe	20"	Black	**45KG06**
Deluxe	21"	Natural	**40P406**
Nomex®			
Fitted	18"	Natural	**40P394**
Deluxe	21"	Natural	**40P407**
Regular	21"	Natural	**40P403**
PBI®			
Regular	21"	Gold	**40P405**



No. 40P393



No. 45KG06



No. 40P405

Firefighting Hoods

- Meet NFPA 1971, Current Edition

Two-layer construction provides maximum protection and comfort with flat-lock hood seams. TrueFit™ elastic for a secure fit.

Description	Color	Item No.
PBI®/Kevlar®/Lenzing FR®		
Seamless Bib with Notched Shoulder	Black	**9WLZ6**
With Bib	Black	**8EWX4**
Seamless Bib with Notched Shoulder	Gold	**9JGF8**
With Bib	Gold	**9NRZ4**
PBI®/Lenzing FR®		
Seamless Bib with Notched Shoulder	Tan	**13P335**
Nomex®/Lenzing FR®		
With Shoulder Notch	White	**13P331**
Seamless Bib with Notched Shoulder	White	**13P332**
Nomex®		
With Shoulder Notch	White	**13P330**
Seamless Bib with Notched Shoulder	White	**9DXR8**
With Bib	White	**8AL59**
CarbonX®		
With Shoulder Notch	Black	**13P328**
Seamless Bib with Notched Shoulder	Black	**13P329**



No. 8EWX4



No. 13P332



No. 8AL59

Fire and Rescue Gloves

SKINS Rescue General Purpose Gloves—Material is double thick around the thumb, with keystone thumbs angled toward the palm for greater dexterity. Wash and wear.

Wildland/Rescue Gloves—The keystone double-thick thumbs are angled toward the palm to add dexterity. 4"W Nomex® wristlet keeps hot debris from entering gloves.

- Meet NFPA

FDP™ Structural Firefighter Gloves—Sealed against liquids with a laminated Gore™ PTFE barrier/thermal liner and sealed seams. Abrasion-resistant; cowhide gloves are also fire-retardant and heat-resistant.

- Meet NFPA 1971-2013

Flex-Tuff® Specialty Gloves—Curved shell has a tapered index/trigger finger and flexible thumb and other fingers for dexterity and articulation. Crosstech® barrier/thermal liner with a secondary thermal layer for improved heat protection.

- Meet NFPA 1971-2013

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
SKINS Rescue General Purpose Gloves				
Pigskin with Gauntlet Cuff	M, L, XL, 2XL	Buttermilk	2533	**G2234**
Wildland/Rescue Gloves				
Pigskin with Wristlet Cuff	M, L, XL, 2XL	Black/Tan	5002	**G2235**
FDP™ Structural Firefighter Gloves				
Cowhide with Gauntlet Cuff	S, M, L, XL, 2XL	Blue	5228	**H7216**
Cowhide with Pigskin Palm and Wristlet Cuff	M, L, 2XL	Black/Gold	5225	**F0738**
Elkskin with Pigskin Palm and Gauntlet Cuff	S, M, L, XL, 2XL	Blue/Gold	5280G	**H7219**
Flex-Tuff® Specialty Gloves				
Cowhide with Wristlet Cuff	S, M, L, XL, 2XL	Black/Gold/Silver	5291	**H7217**
Cowhide with Gauntlet Cuff	S, M, L, XL, 2XL	Black/Gold/Silver	5292	**H7218**



No. G2235



No. F0738


No. K2350


No. K2351

INNO TEX

3D Firefighter Gloves

- Meet NFPA 1971-2013

Firefighters Gloves are designed to deliver natural movement, better grip and tactility, and excellent dexterity. These wristlet gloves offer a Kangaroo leather palm and Cowhide leather back material. PIVOT-THUMB™ and formed knuckle guard provide natural, anatomically correct thumb-to-finger movement. These gloves have a Nomex®/Kevlar® thermal lining for heat and slash protection. CROSSTECH® inserts provide long lasting protection against hot water, blood, body fluids and common chemicals by resisting damage due to flexing, abrasion and heat exposure. The style has rounded fingertips, curved thumbs and fingers, and exclusive TRU-3D™: complete fourchettes on all sides of every finger and thumb. INNO880B™ gloves are constructed with 2 layers of Nomex knit at the wrist for additional protection.

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
INNO885B™ with Wristlet Cuff	XS, S, M, L, XL, 2XL	Black	INNOTEX885B	K2350
INNO880B™ with Extended Wristlet Cuff	XS, S, M, L, XL, 2XL	Black	INNOTEX880B	K2351


No. D9864


No. D9866

Honeywell

Structural Firefighting Gloves

- Nos. D9864 and D4072 meet NFPA 1971-2007

All gloves feature 2-D patterning with wing thumb.

Thermo Cowhide—100% waterproof/wind-resistant moisture barriers and fleece thermal lining. Feature low-temperature flexibility for dexterity and comfort.

Fire Mate™—Kangaroo outer shell palm stands up to abrasion and minimizes water absorption. Elk back and thermal lining provide insulation and high-heat stability.

Cuff	▶CHOOSE: Size	Color	Mfr. Model	Item No.
Thermo Cowhide				
2-Ply Nomex® Spandex Wristlet with Leather Pull Tab	S, M, L, XL, 2XL	Gold/White	GL-7500	D9864
Fire Mate™				
Leather Gauntlet	S, M, L, XL, 2XL	Gold/Blue	GL-9550	D4072
2-Ply Nomex® Spandex Wristlet with Leather Pull Tab		Gold/Blue/White	GL-9500	D9866



Ansell

ActivArmr® Rescue Extrication Gloves

For emergency services personnel, with specialized grip materials that cover the entire palm to offer whole-hand cut protection. Stretchable spandex shell has ultrathin lining to make these gloves feel cool and comfortable. EVA palm padding helps reduce shock impact. Reinforced palm, thumb, and fingertips allows for a nonslip, secure grip.

▶CHOOSE: Size	Color	Mfr. Model	Item No.
S, M, L, XL, 2XL	Hi-Vis Yellow	46-551	H8849


No. G8768

FireDex®

Men's Shoe-Fit Insulated Fire Boots

- Meet NFPA 1971, Current Edition

Fire-Dex® FDXR100 Shoe-Fit Firefighting Boots are built to provide waperproof protection and thermal wool insulation for firefighters in the field. They feature rubber construction with reinforced rubber shin guards and heels. Steel toes, plates, and shanks offer rugged protection. Integrated pull-on loops help to enable easy donning/removal. Articulating louvers on side tread offer added traction, and the sole tread pattern is designed to help push water outward. Reflective trim provides added visibility.

Description	▶CHOOSE: Size	Color	Item No.
16" Rubber	4, 5, 6, 7, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14	Black/Yellow	G8768


No. D1763


No. D1761


No. E7868

Thorogood

Hellfire™ Boots

- Steel-toe models meet ASTM F2413-11
- Composite-toe models meet ASTM F2413-05

Note: Many sizes available in medium and wide widths; call 1-800-GRAINGER (472-4643). Men's sizes are shown unless specified.

14" Rubber Insulated Felt Fire Boots—Vulcanized rubber boots have double-reinforced pull loops, rubber T-toe for extra durability, oversized steel toe caps, reflective instep and heel patches, and a removable polyurethane insole.
- Also meet NFPA 1971, Current Edition

14" Rubber Insulated Fire Boots—Designed with a 1-pc. Kevlar® knit fabric liner, oversize steel toe cap, and vulcanized reflective patches. Feature a cushioned shin guard and heat- and flame-resistant lug sole.
- Also meet NFPA 1971, 1992, Current Edition

9" EMS Leather Wildland Boots—Goodyear welt constructed, waterproof, slip-resistant boots are made with flame- and cut-resistant leather. Padded leather top with shaft vapor exhaust vents. Puncture-resistant insole with rubber midsole.
- Also meet NFPA 1977 and NFPA 1999

14" Power Hi-Vis Leather Structural Bunker Boots—Goodyear storm welt constructed, waterproof, slip-resistant boots are made with flame- and cut-resistant leather. Abrasion-resistant rubber toe. Padded leather top with 3M™ Scotchlite™ reflective material and shaft vapor exhaust vents. Built-in shin guard and reinforced leather pull straps. Puncture-resistant insole with rubber midsole.

Description	▶CHOOSE: Size	Color	Item No.
14" Rubber Insulated Felt Fire Boots			
Steel-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14	Black/Silver	D1763
14" Rubber Insulated Fire Boots			
Steel-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14	Black/Yellow/Silver	D1761
9" EMS Leather Wildland Boots			
Composite-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14, 15	Black	E7869
14" Power Hi-Vis Leather Structural Bunker Boots			
Composite-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14, 15	Black	E7868

Mobile Hose Carts

Easy-to-assemble carts with heavy-duty, powder-coated steel rails keep hose organized. Four heavy-duty brake casters roll smoothly and hold the cart in place for loading and unloading.



No. 20AT51
(Hose Sold Separately)

Description	L	W	H	Mfr. Model	Item No.
Two-Tier Carts					
Holds Up To 1300-ft. of 2½" Hose	72"	34"	79"	HC-64-2T	**20AT54**
Holds Up To 2000-ft. of 2½" Hose	104"	34"	79"	HC-96-2T	**20AT52**
Three-Tier Carts					
Holds Up To 2000-ft. of 2½" Hose	72"	34"	87"	HC-64-3T	**20AT53**
Holds Up To 3000-ft. of 2½" Hose	104"	34"	87"	HC-96-3T	**20AT51**

Mobile Hose Dryer/Tower

Rack on wheels dries and stores your hose, entry suits, and dive gear in a small space: no climbing required. Durable red powder-coated steel dryer lets fresh air flow fast, to naturally dry your equipment and prolong its service life. Hose cap.: 800 ft. of 2½" to 3", 1200 ft. of 1½" to 1¾".



(Hose Sold Separately)

L	W	H	Mfr. Model	Item No.
80"	33"	88"	MHD-80	**20AT50**

Turnout Gear Storage Systems

Open-air rack design circulates air to quickly dry and extend the life of turnout gear. Shelves adjust to boot and helmet sizes. Durable, red powder-coat finish. Each compartment is 72½"H x 20"D. Racks include apparel hooks, hanging pole, and nameplate label holders. Mobile racks also include 4 swivel casters, 2 with foot-operated brakes.



No. 8NL19
(Gear not included)

Description	L	D	Mfr. Model	Item No.
Mobile Single-Sided Racks				
Three 20"W Compartments	64"	20"	RMSS-3/20	**8NL19**
Three 24"W Compartments	76"	20"	RMSS-3/24	**9UFX5**
Mobile Double-Sided Racks				
Six 20"W Compartments	64"	40"	RMDS-6/20	**8EMX7**
Six 24"W Compartments	76"	40"	RMDS-6/24	**8EPX4**
Wall-Mount Racks				
One 20"W Compartment	22"	20"	RRWM-1/20	**9AR51**
Three 20"W Compartments	64"	20"	RRWM-3/20	**8EMV2**

Kore Kooler® Recovery Chair

DQE®

Cooling chair lowers body temperature through hand and forearm immersion in arm reservoirs that hold 2 gal. of water.



No. 45JA65

Description	L	W	H	Item No.
Cooling Chair	32"	32"	40"	**45JA65**
Replacement Reservoir Bags, Pkg. 30	23"	26"	—	**45JA66**



No. G2303



No. G2311

Municipal Fire Hose

JAFLINE HD—Synthetic, double-jacket fire hose with rubber lining has excellent resistance to ozone. Outside jacket resists moisture and abrasion. Use with NST/NH fittings.

JAFLINE—Synthetic, double-jacket fire hose has polyurethane lining to reduce size and weight. Outside jacket resists moisture and abrasion. Use with NST/NH fittings.

JAFRIB—Synthetic nitrile/PVC extruded through-the-weave fire hose has a ribbed jacket that resists acids, alkalis, gasoline, oils, and ozone. Use with NST/NH fittings.

JAFX4—Synthetic 4-layer hose made with high-tenacity, circular-woven yarn is completely enveloped in a tough synthetic rubber. Couple with NST, NPSH, Storz, or other special couplings.

Hose Inside Dia.	▶CHOOSE: Color	L	Service (Working) Pressure	Acceptance (Test) Pressure	Burst Pressure	Item No.
JAFLINE HD						
1½"	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G2302**
	Blue, Red, Tan, Yellow	100 ft.	400 psi	800 psi	1200 psi	**G2349**
1¾"	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G8765**
2"	Blue, Orange, White	50 ft.	400 psi	800 psi	1200 psi	**G2305**
2½"	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G8766**
3"	Blue, Green, Red, Tan, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G8767**
JAFLINE						
1½"	Blue, Red, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G2303**
1¾"	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G8763**
2½"	Blue, Green, Orange, Red, White, Yellow	50 ft.	400 psi	800 psi	1200 psi	**G8764**
	Blue	100 ft.	400 psi	800 psi	1200 psi	**11N829**
3"	Blue, Orange, White, Red	50 ft.	400 psi	800 psi	1200 psi	**G2309**
JAFRIB						
1½"	Red, Yellow	50 ft.	300 psi	600 psi	900 psi	**G2304**
	Red, Yellow	100 ft.	300 psi	600 psi	900 psi	**G2311**
1¾"	Red, Yellow	50 ft.	300 psi	600 psi	900 psi	**G2306**
	Red, Yellow	100 ft.	300 psi	600 psi	900 psi	**G2313**
2"	Red, Yellow	100 ft.	300 psi	600 psi	900 psi	**G2314**
2½"	Red	50 ft.	300 psi	600 psi	900 psi	**11N797**
3"	Red, Yellow	100 ft.	300 psi	600 psi	900 psi	**G2316**
4"	Red, Yellow	100 ft.	250 psi	500 psi	750 psi	**G2317**
5"	Red, Yellow	100 ft.	225 psi	450 psi	675 psi	**G2318**
JAFX4						
1½"	Yellow	50 ft.	300 psi	600 psi	900 psi	**11C288**
	Yellow	100 ft.	300 psi	600 psi	900 psi	**11C287**
1¾"	Yellow	50 ft.	300 psi	600 psi	900 psi	**11C290**
	Yellow	100 ft.	300 psi	600 psi	900 psi	**11C289**
2½"	Yellow	50 ft.	300 psi	600 psi	900 psi	**11C294**
	Yellow	100 ft.	300 psi	600 psi	900 psi	**11C293**
4"	Yellow	50 ft.	250 psi	500 psi	750 psi	**11C296**
	Yellow	100 ft.	250 psi	500 psi	750 psi	**11C295**
5"	Yellow	50 ft.	250 psi	500 psi	750 psi	**11C298**
	Yellow	100 ft.	250 psi	500 psi	750 psi	**11C297**



No. 11C283

Forest Lite Wildland Fire Hose

Lightweight, single-jacket polyurethane-lined hose has a spun polyester outer jacket that resists chemicals, abrasion, and ultraviolet light. Delivers superior performance against forest and wildland fires. NST couplings.

Hose Inside Dia.	Color	L	Service (Working) Pressure	Acceptance (Test) Pressure	Burst Pressure	Item No.
1"	White	50 ft.	300 psi	600 psi	900 psi	**11C286**
	White	100 ft.	300 psi	600 psi	900 psi	**11C285**
1½"	White	50 ft.	300 psi	600 psi	900 psi	**11C284**
	White	100 ft.	300 psi	600 psi	900 psi	**11C283**

Plastic Fire Hydrant Caps and Plugs

MOON American, Inc.


No. 6APH1

For use in municipal garages, landscaping, in-plant maintenance, and firefighting applications.

Description	Size	Connec. Type	Item No.
Caps			
Fire Hydrant Rocker Lug Cap w/Chain	1½"	NH Female	6APH1
	2½"	NH Female	6APH2
	2½"	Universal	6APH3
Fire Hydrant Breakable Cap	2½"	Nonthreaded	6APH4

Description	Size	Connec. Type	Item No.
Plugs			
Fire Hydrant Rocker Lug Plug w/Chain	1½"	NH Male	41H522
	2½"	NH Male	41H523

Aluminum Storz Adapters

MOON American, Inc.


No. 41H524

Easy-connect ¼-turn adapters for hydrants, hoses, pipes, and valves.

Size	Connec. Type	Item No.
Fire Hose Storz Adapters		
2½" x 4"	NH Female x Storz	6APT7
2½" x 5"	NH Female x Storz	6APT9
4" x 4"	FNPT x Storz	6APV2
4" x 5"	FNPT x Storz	6APV3
6" x 5"	FNPT x Storz	6APV4

Size	Connec. Type	Item No.
Fire Hose Storz Elbow Adapters		
4" x 4"	FNPT x Storz	6CME9
4" x 5"	FNPT x Storz	6CMF0
4" x 4"	NH Female x Storz	6CMF8
4" x 5"	NH Female x Storz	6DGC1
4½" x 5"	NH Female x Storz	6DGC2

Size	Connec. Type	Item No.
Fire Hydrant Storz Adapters with Cap		
4½" x 4"	NH Female x Storz	41H524
4½" x 5"	NH Female x Storz	41H525
Fire Hydrant Storz Caps		
4"	Storz	6DGC5
5"	Storz	6DGC6

Leader Line and Forestry Valves

GA GRAINGER APPROVED

MOON American, Inc.


No. 6APN4

2-pc. wye ball valves allow 1 connection to support 2 lines. Nos. 6AKE2 and 6AKE3 have 300 psi CWP max. pressure. Nos. 6APN1 to 6APN4 have 250 psi CWP max. pressure.

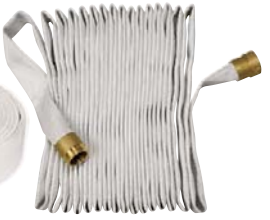
Inlet Size	Inlet Type	Outlet Size	Outlet Type	Connection	Body Material	Brand	Item No.
2½"	Female NH	1½" x 1½"	Male NH x Male NH	NPSH Male x NPSH Male	Brass	GA	6AKE2
2½"	Female NH	1½" x 1½"	Male NPSH x Male NPSH	NH Female x NPSH Male	Brass	GA	6AKE3
2½"	Female NH	1½" x 1½"	Male NH x Male NH	NH Female x NH Male	Aluminum	Moon American	6APN2
2½"	Female NH	1½" x 1½"	Male NPSH x Male NPSH	NH Female x NPSH Male	Aluminum	Moon American	6APN3
2½"	Female NH	1½" x 1½"	Male NPSH x Male NPSH	NH Female x NPSH Male	Brass	Moon American	6APN1
2½"	Female NH	1½" x 1½"	Male NST x Male NST	NH Female x NH Male	Brass	Moon American	4FY13
2½"	Female NH	2½" x 2½"	Male NH	NH Female x NH Male	Aluminum	Moon American	6APN4

Fire Hose

GA GRAINGER APPROVED


No. 1FEL5


No. 3EUJ5


No. 1FEL2

- Meet NFPA 1962, FM Approved
- Nos. 1FEL2 to 1FEL4 are UL Listed

1½" NST thread is 9 TPI; 2½" NST thread is 7.5 TPI

Single-Jacket Pin Rack— Lightweight, compact, and easy-to-handle for occupant use during initial fire response. Not for repeated use or as a washdown hose. Tightly woven, 100% polyester filament yarn. Couplings have female swivel on one end, male on the other.

Double-Jacket Reel—Tough, 100% polyester with a smooth 1-ply rubber liner for max. water flow and easy coiling and transport. Serves as a fire department attack hose or for repeated and heavy-duty washdown use.

Hose I.D.	Coupling Bowl Size	Working Pressure	Burst Pressure	Fitting Material	50 ft. Item No.	75 ft. Item No.	100 ft. Item No.
Single-Jacket Reel Fire Hose							
1½"	1½"	150 psi	450 psi	Brass x Brass	1FEL5	—	3ATP5
1½"	1½"	150 psi	450 psi	Aluminum x Aluminum	3EUJ5	—	3EUJ6
2½"	2½"	150 psi	450 psi	Brass x Brass	1FEL6	—	3ATP6
2½"	2½"	150 psi	450 psi	Aluminum x Aluminum	3EUJ7	—	3EUJ8
Single-Jacket Pin Rack Fire Hose							
1½"	1½"	250 psi	750 psi	Brass x Brass	1FEL2	1FEL3	1FEL4
1½"	1½"	250 psi	750 psi	Aluminum x Aluminum	3ATP1	3ATP2	3ATP3
2½"	2½"	250 psi	750 psi	Brass x Brass	3ATP4	—	—
Double-Jacket Reel Fire Hose							
1½"	1½"	400 psi	1200 psi	Aluminum x Aluminum	4YLJ9	—	4YLK3
1¾"	1½"	400 psi	1200 psi	Aluminum x Aluminum	4YLK1	—	4YLK4
2½"	2½"	400 psi	1200 psi	Aluminum x Aluminum	4YLK2	—	4YLK5


No. 4LL10


No. 6APF1


No. 6APE6


No. 4KR25
(Hose not included)


No. 6APE3



No. 4KR24

Description	Material	Hose Cap.	For Hose Dia.	L	W	H	Item No.
Fire Hose Racks							
Fire Hose Pin Rack	Steel	100 ft.	1½"	17"	4"	1½"	4LL10
Heavy Duty Hump Type Fire Hose Rack		50 ft.	1½"	24"	4½"	18"	6APF1
		100 ft.	1½"	24"	4½"	24"	6APF3
		100 ft.	2½"	24"	5½"	24"	6APF2
		200 ft.	1½"	34"	4½"	34"	6APF4
Hump Type Fire Hose Rack		50 ft.	1½"	24"	4½"	17"	6APE6
		50 ft.	2½"	24"	5½"	17"	6APE7
		100 ft.	1½"	26½"	4½"	23"	6APE8
Fire Hose Reels							
Heavy Duty Fire Hose Reel	Steel	50 ft.	1½"	18"	6½"	22"	6APD8
		100 ft.	1½"	25"	6¼"	29"	4KR25
Standard Fire Hose Reel		100 ft.	2½"	25"	10"	29"	6APD9
		100 ft.	1½ to 1¾"	21"	8"	27"	6APE3
		200 ft.	1½"	26"	8"	33"	6APE4
		200 ft.	2½"	26"	15"	33"	6APE5
Fire Hose Covers, Red							
Fire Hose Cover	Vinyl/Nylon	—	—	29"	5"	20"	6APE9
		—	—	32"	6"	24"	6APF0
		—	—	18"	4"	24"	6APF5
		—	—	24"	6"	24"	6APF6
		—	—	24"	4"	24"	6APF7
		—	—	34"	4"	34"	6APF8
	Poly Cotton	—	—	25"	25"	7½"	4KR24
	Vinyl/Nylon	—	—	25"	25"	6"	6APE0
		—	—	25"	25"	9"	6APE1
	Vinyl Coated Nylon	—	—	32"	22"	6"	4KR27
	Vinyl/Nylon	—	—	18"	18"	7½"	6APE2

Fire Hose Racks and Reels

MOON American, Inc.

- Red enamel finish, except Nos. 6APE9 to 6APF8

FIRE HOSE RACKS

Provide compact and economical storage for collapsible hose. Pivot mounting allows rack to swing out to the proper angle to help prevent hose twisting and kinking. Open sides allow hose to dry faster and help prevent growth of mold and mildew. Pin Rack No. 4LL10 holds 100 ft. of 1½" hose. Only accepts single-jacket pin rack fire hose; pin rack cover not included. No. 4LL10 is UL Listed, FM Approved.

FIRE HOSE REELS

Fire hose sold separately above. No. 4KR27 is UL Listed, FM Approved.

ACCESSORIES

Angle Valve No. 4KR36 has 1½" FNPT threads. Max. 300 psi. UL Listed and FM Approved, except No. 6APF9.

Description	Material	Item No.
Accessories		
Angle Hose Valve	Brass	4KR36
Brass Rack Nipple, 1½", MNPT x MNST		4KR28
Fire Hose Nozzle, 1½", 60 gpm, 100 psi		2LYW7
Fire Hose Rack Nipple, 2½", MNPT x MNST		6APF9
Wall Bracket	Steel	4KR29

MOON American, Inc.

GA GRAINGER APPROVED

Plain Brass Hose Nozzles

- Max. pressure: 100 psi

Straight-stream flow; not adjustable. For use on fire hose racks and reels and other industrial applications.

Activates By	Inlet Size	Waterway	Thread Type	Brand	Item No.
Constant On	¾"	¼"	GH	Moon American	6ANW1
	¾"	¼"	NPSH	Moon American	6ANW2
	1"	5⁄16"	NH	Moon American	6ANV6
	1"	5⁄16"	NPSH	Moon American	6ANV5
	1¼"	⅜"	NPSH	Moon American	6ANV7
	1½"	9⁄16"	NH	GA	6AKC5
	1½"	9⁄16"	NPSH	GA	6AKC4
	2"	9⁄16"	NPSH	Moon American	6ANV8
	2½"	¾"	NH	Moon American	6ANW0
	2½"	¾"	NPSH	Moon American	6ANV9
Shutoff Handle	1½"	½"	NH	Moon American	6APP6
	1½"	½"	NPSH	Moon American	6APP5





Industrial Fog Nozzles

MOON American, Inc. ELKHART BRASS

- Max pressure: 100 psi
- Straight-stream, twist-to-activate nozzles

Nos. 6APP7, 6APT0 and 6APT1—Compact, lightweight aluminum nozzles have a powder-coated finish and a thick rubber bumper. Suitable for industrial washdown, forestry, and irrigation applications.

Inlet Size	Thread Type	Flow Rate	Finish	Brand	Item No.
¾"	GH	10 to 24 gpm	Aluminum	Moon American	6APP7
1"	NH	10 to 24 gpm	Aluminum	Moon American	6APP9
	NPSH	10 to 24 gpm	Aluminum	Moon American	6APP8
1½"	NH	20 to 60 gpm	Aluminum	Moon American	6APT0
	NPSH	20 to 60 gpm	Aluminum	Moon American	6APT1
	NH	75 gpm	Polycarbonate	Elkhart Brass	15Z194

No. 15Z194—Polycarbonate nozzle with rigid base. Helps combat blazes in refineries, chemical plants, office complexes, and other industrial locations. Designed for Class C hazards and for use on blazes 10 ft. or more from live electrical equipment and/or circuits up to 250,000V.





MOON American, Inc.

GA GRAINGER APPROVED

Heavy-Duty Industrial Fog Nozzles

- Max. pressure: 100 psi

Recommended for high-volume service demands. Straight-stream, twist-to-activate nozzles can deliver fog stream in 30°, 60°, and 90° patterns. Bronze construction with a bumper.

Inlet Size	Thread Type	Flow Rate	Std.	Brand	Item No.
1"	NH	36 gpm	—	Moon American	6ANV3
1"	NPSH	36 gpm	—	Moon American	6ANV2
1½"	NPSH	130 gpm	UL Listed	GA	6AKC1
1½"	NST	130 gpm	UL Listed	GA	6AKC2
2"	NPSH	108 gpm	—	Moon American	6ANV4
2½"	NST	205 gpm	UL Listed	GA	6AKC3



MOON American, Inc.

GA GRAINGER APPROVED

DIXON The Right Connection

Thermoplastic Hose Nozzles

- Max. pressure: 100 psi

Twist-to-activate nozzle for washdown, dust suppression, or any other application where adjustable fog nozzles are needed to disperse water.









Inlet Size	Body Material	Thread Type	Flow Rate	Std.	Item No.
Moon American, Fire Hose Nozzles					
¾"	Polycarbonate	NPSH	8 gpm	—	6ANW6
1"	Polycarbonate	NH	22 gpm	—	6ANW5
2½"	Polycarbonate	NH	150 gpm	UL Classified	6APN5
GA, Fire Hose Nozzles					
¾"	Plastic	GHT	35 gpm	—	6AKC6
1½"	Plastic	NPSH	80 gpm	—	6AKC7
1½"	Plastic	NST	80 gpm	—	6AKC8
Dixon, Fire Hose Nozzles					
¾"	Polycarbonate	NPSH	30.9 gpm	FM Approved	6CLV9
1"	Polycarbonate	NPSH	30.9 gpm	FM Approved	6CLW0
1½"	Polycarbonate	NPSH	75 gpm	—	6CLW1

Inlet Size	Body Material	Thread Type	Flow Rate	Item No.
Moon American, Spray Nozzles				
¾"	Polycarbonate	GHT	8 gpm	4KR35
1"	Polycarbonate	NPSH	22 gpm	4KR32
1½"	Polycarbonate	NPSH	75 gpm	4KR34
1½"	Polycarbonate	NST	75 gpm	4KR33
Moon American, Nozzle Gaskets				
1½" Nozzle Gasket, EDPM, For Use With No. 4RK34				6ANW8
1½" Nozzle Gasket, EDPM, For Use With No. 4RK33				6ANW9

MOON American, Inc.

Forestry Nozzles

Twist-to-activate nozzle for use in woodland environments.

Break-Apart Nozzles—Pistol grip.

Jet and Fan Nozzle—Bale handle grip.







Inlet Size	Body Material	Max. Pressure	Thread Type	Flow Rate	Spray Pattern	Std.	Item No.
Break-Apart Nozzles							
1"	Aluminum	100 psi	NH	10-24 gpm	Fog/Straight Stream	—	41H468
1"	Aluminum	100 psi	NPSH	10-24 gpm	Fog/Straight Stream	—	41H467
1½"	Aluminum	100 psi	NH	20-60 gpm	Fog/Straight Stream	—	41H470
1½"	Aluminum	100 psi	NPSH	20-60 gpm	Fog/Straight Stream	—	41H469
Jet and Fan Nozzle							
¾"	Aluminum	200 psi	GH	22 gpm	Straight Stream/Fan	—	41H482
Nozzle with Shut Off							
1"	Aluminum	600 psi	NPSH	10-25 gpm	Fog	NSN 4210-01-165-6603	41H477
Straight-Stream Nozzle							
1½"	Aluminum	200 psi	NH	5 gpm with ⅛" Orifice, 10 gpm with 3⁄16" Orifice, 18 gpm with ¼" Orifice, 29 gpm with 5⁄16" Orifice	Stream	—	41H476



NUPLA®

Firefighting Tools

- More Nupla® firefighting tools available online, see Grainger.com®

Description	Mfr. Model	Item No.
Fire Axes		
Pick Head, 6-lb. Head Weight, 36"L Hickory Handle	06207	**20Y313**
Pick Head, 6-lb. Head Weight, 36"L Fiberglass Handle	31687	**1THA3**
Pulaski, 3½-lb. Head Weight, 36"L Fiberglass Handle	31676	**1THA4**
Pulaski, 3½-lb. Head Weight, 36"L Fiberglass Handle	31375	**20Y318**
Wildland Fire Tools		
McLeod Fire Tool, 36"L Fiberglass Handle	36635	**20Y324**
McLeod Fire Tool, 48"L Fiberglass Handle	69216	**2LTC2**
Fire Rake, 60"L Fiberglass Handle	69214	**2LTC4**
Halligan Bars		
30"L with Fiberglass Handle	33800	**20Y339**
36"L with Fiberglass Handle	33801	**20Y340**
Pike Poles - Round		
6-ft. L with Fiberglass Handle	36206	**2LTA3**
6-ft. L with Fiberglass Handle and D-Grip	36106	**2LTA4**
8-ft. L with Fiberglass Handle	36208	**2LTA5**
2-Pc. Pike Poles - Round with Fiberglass Handle		
10-ft. L with D-Grip, Includes 5-ft. Handle Section, 5-ft. Pike Section, and Assembly Kit	36754	**4GFZ1**
10-ft. L with Butt Grip, Includes 5-ft. Handle Section, 5-ft. Pike Section, and Assembly Kit	36751	**4GFY8**



Firefighting Tools

LEATHERHEAD® TOOLS

- More Leatherhead® firefighting tools available online, see Grainger.com®

Description	Mfr. Model	Item No.
Fire Axes and Sledge Hammers		
Flat Head Axe, 6-lb. Head Weight, 36"L Handle, Yellow	FAY-6	**5HYC9**
Pick-Head Axe, 6-lb. Head Weight, 36"L Handle, Hi-Vis Lime	PAL-6	**5HYD0**
Pick Head Axe, 6-lb. Head Weight, 36"L Handle, Hi-Vis Orange	PAO-6	**6YFP7**
Pick Head Axe, 6-lb. Head Weight, 36"L Handle, Yellow	PAY-6	**5HYD1**
Pick Head Axe, 8-lb. Head Weight, 36"L Handle, Hi-Vis Orange	PAO-8	**31AY96**
Pick Head Axe, 8-lb. Head Weight, 36"L Handle, Yellow	PAY-8	**31AY98**
Sledge Hammer, 6-lb. Head Weight, 24"L Handle, Yellow	SLY-6-24	**31AZ67**
Sledge Hammer, 10-lb. Head Weight, 36"L Handle, Hi-Vis Lime	SLL-10-36	**31AZ73**
Sledge Hammer, 10-lb. Head Weight, 36"L Handle, Hi-Vis Orange	SLO-10-36	**31AZ74**
Sledge Hammer, 10-lb. Head Weight, 36"L Handle, Yellow	SLY-10-36	**31AZ75**
Halligan and Axe Combo		
36"L with 6-lb. Flat Head Axe, Hi-Vis Lime	K-LB30-1	**31AZ62**
36"L with 6-lb. Flat Head Axe, Hi-Vis Orange	K-LB30-3	**31AZ64**
Halligan Bars		
24"L	LB-24	**31AZ04**
30"L	LB-30	**5HYC4**
36"L	LB-36	**5HYC5**
American Hook - Round		
36"L Fiberglass D-Handle, Hi-Vis Orange	PLO-3AH-D	**5HYD5**
Rubbish Hook - Round		
36"L Fiberglass D-Handle, Hi-Vis Orange	PLO-3RH-D	**5HYD7**
Drywall Hook - Round		
36"L Fiberglass D-Handle, Hi-Vis Orange	PLO-3DH-D	**5HYD6**
New York Hook		
5-ft. L, Hi-Vis Lime	NYHL-5	**6RPN4**
6-ft. L, Hi-Vis Lime	NYHL-6	**6RPN5**



Fire and EMS Bags

ergodyne WORK GEAR

FIRST AID ONLY

Maltese cross instantly identifies fire bag and star of life identifies EMS bags.

Arsenal® Large Personal Gear Bag—Bag has a front outside pocket and 2 side pockets. 1000-denier nylon, double-coated polyurethane construction with 2" webbing handle, pull strap, and removable shoulder strap.

Arsenal® Responder Trauma Bags—600-denier polyester bags have an easily accessible outside front pocket. Bags open completely for easy access to the main hold and 6-division multitiered mesh interior pocket. 1½" webbing side straps and shoulder strap.

Arsenal® Trauma Bags—600-denier nylon bags have lockable double-pull zippers to help keep narcotics and other controlled substances secure. Large main zippered pocket opening provides quick access to gear. Durable shoulder straps with reflective striping. Customizable interior compartments on large bags keep contents organized for easy access.

Arsenal® Backpack Trauma Bags—Easy-to-carry packs have 3" padded shoulder straps with reflective striping, phone holder, heavy-duty carry handle, and reflective trim on main panel. Large zippered opening provides quick, easy access to the main hold; segmented to keep supplies organized. 600-denier polyester construction with PVC backing.

First Responder Bag—Nylon bag has a main compartment with divider, side pockets for additional storage, webbed handles with padded hook-and-loop closure, and over-the-shoulder strap for easy carrying.

Color	H	W	L	Brand	Mfr. Model	Item No.
Arsenal® Large Personal Gear Bag						
Red	15"	15"	30"	Ergodyne	GB5005	**3RTN6**
Arsenal® Responder Trauma Bags						
Blue	10"	7½"	16½"	Ergodyne	GB5220	**2MTA6**
Orange	10"	7½"	16½"	Ergodyne	GB5220	**2MTA8**
Arsenal® Small Trauma Bags						
Blue	7"	10"	16½"	Ergodyne	GB5210	**2MTA2**
Orange	7"	10"	16½"	Ergodyne	GB5210	**2MTA5**
Arsenal® Large Trauma Bags						
Blue	8½"	12"	19"	Ergodyne	GB5215	**1XPG6**
Orange	8½"	12"	19"	Ergodyne	GB5215	**1XPG7**
Arsenal® Backpack Trauma Bags						
Blue	17½"	7"	12"	Ergodyne	GB5243	**2MTA9**
Orange	17½"	7"	12"	Ergodyne	GB5243	**2MTC3**
First Responder Bag						
Red	8"	5¼"	15¼"	First Aid Only	520-FR/BAG-FAO	**11A318**









FERNO® When It's Critical®

Evacuation Stair Rescue Chairs and Devices

Model 40 Chairs—Two 5" stationary rear wheels, rear lifting handles, and 2-position front handles ease movement through cramped quarters. Features two 5-ft. quick-release restraints and locking safety latch.

EZ-Glide® Chairs—Track system carries patient down stairs and through tight spaces. Allows one person to evacuate patients up to 200 lb. and two people to evacuate patients up to 500 lb. Features include an ergonomic, 5-position extending lift bar; handles; 3 web straps; footrest; and folding design. Model with PowerTraxx® allows lifting patients up stairways without risking back injury.

Head Immobilizer—Immobilize heads of patients with suspected spinal injury. Lightweight, easy-to-clean unit has 2 plastic-coated, closed-cell foam supports with 2 straps and large ear holes that allow medical monitoring. Universal attachment base secures to any backboard.

Extrication Device—Helps minimize the risk of further injury during extrication from confined spaces. Wraparound design provides horizontal flexibility and vertical rigidity. Includes a wraparound vest, neck roll, color-coded body straps, 2 head straps, and carrying case. Made of vinyl-coated nylon with built-in handles.

Description	Weight Cap.	H	W	D	Color	Mfr. Model	Item No.
Evacuation Stair Rescue Chairs							
Model 40	350 lb.	36"	20"	27"	Burgundy	40	**2LBC2**
	350 lb.	36"	20"	27"	Orange	40	**4HRH6**
E-Z Glide®	500 lb.	37½"	20⅓"	51"	White	59-E	**2LBB4**
E-Z Glide® w/ PowerTraxx®	500 lb.	37½"	20½"	10" Folded	Red	59-T	**46P311**
	500 lb.	37½"	20½"	10" Folded	Blue	59-T	**46P312**
Rescue Devices							
Head Immobilizer	—	7"	10"	15"	Orange	445	**2LBC3**
Extrication Device	500 lb.	6"	32"	33"	Green	125	**2LBC4**
Accessories for EZ Glide® Stair Chair No. 2LBB4							
Wall Bracket						0822096	**3CRF5**
Storage Cover						0314023	**3CRF4**
Rear Lift Locking Handles						CA5906	**3CRF3**
IV Pole						0821976	**3CRF6**







EVAC+CHAIR

Evacuation Board, Mat, and Sheet

Designed to help one or more people slide a mobility-impaired individual to safety in an emergency.

Evacuation Board and Mat—Hook-and-loop straps secure the person in place and a pillow reduces head movement for safe transport. To protect against hitting steps, door frames, and corners, the board has fold-up sides and the mat's padded sheet wraps around the body.

Patient Evacuation Sheet—Adjustable wraparound straps cocoon the patient to the mattress. Long straps at head and foot help control transfer to the floor and out, even down stairs. Sheet installs between the mattress and bed, ready for immediate use.

Description	Weight Cap.	L	W	Straps Count	Mfr. Model	Item No.
ResQme Evacuation Board	660 lb.	83"	24"	5	220M	**14H659**
ResQmat Evacuation Mat	900 lb.	89"	52"	5	220P	**14H657**
ResQsheet Evacuation Sheet	900 lb.	75"	36"	4	220	**14H658**





EVAC+CHAIR

Evacuation Stair Rescue Chairs

EVAC+CHAIRS®—Allow one operator to bring a person down stairs. Self-regulating speed governor enables operator to speed up, slow down, or stop. Include storage cover, wall bracket, indicator sign, user guide, instruction DVD, seat belt, head restraint, and ergonomic handle. No. 4WLZ8 also includes 2 extra handles for 2-person operation or difficult locations.

IBEX Ascend/Descend Tran-Seat—Uses gravity and friction to transport individuals up and down stairs. Features single-action open/close for rapid use, telescoping handle for correct operator posture, and adjustable resistance control for safe, easy use. 2-person operation.

Description	Weight Cap.	H	W	D	Mfr. Model	Item No.
Rescue Chairs						
EVAC+CHAIR®	400 lb.	41"	20"	8"	MK4-300H	**4WLZ7**
	400 lb.	47"	23"	12"	600H	**4WLZ8**
	440 lb.	48"	16"	14"	220H	**52WU50**
IBEX Ascend/ Descend Tran-Seat	350 lb.	43"	18"	14"	700H	**4WLZ9**
Accessories						
Cushioned Seat					310	**4WMA2**
Patient Transfer Seat					311	**4WMA3**
Wall Bracket					305	**4WMA4**









MEGAMOVER portable transport unit

Portable Transport Units

Transport Units—Compact and cost-effective units transport, transfer, or rescue patients from areas not accessible to stretchers. Feature nonwoven, latex-free construction with 14 attached handles for ergonomic lifting. Nos. 45EU90 and 45EU91 have PowerGrip™ handles for added comfort.

Transport Chairs—Constructed of strong, nonwoven material with 8 reinforced-nylon, yellow handles for ergonomic lifting. Rolls up to the size of a water bottle for easy storage. No. 45EU92 has PowerGrip™ handles for added comfort.

Barrier Sheet—Barrier sheet can be used as a durable transfer device or as a blanket for warmth. Nonwoven/poly construction acts as a fluid barrier to prevent any cross contamination.

Description	Weight Cap.	L	W	Straps Count	Color	Mfr. Model	Item No.
Transport Unit	1000 lb.	80"	40"	7	White	73249	**45EU87**
	1000 lb.	80"	40"	7	Gray	73250	**45EU88**
Transport Unit with PowerGrips™	1000 lb.	80"	40"	7	White	73252	**45EU90**
	1000 lb.	80"	40"	7	Gray	73253	**45EU91**
Transport Chair	350 lb.	36"	36"	4	White	73251	**45EU89**
Transport Chair with PowerGrips™	350 lb.	36"	36"	4	White	73254	**45EU92**
Barrier Sheet	350 lb.	84"	50"	—	Gray	73248	**45EU86**


No. 2LBB8


No. 2LBB9


No. 3CRE9


No. 3NRK1


No. 46P353


No. 46P335


No. 2LBB7


No. 46P344


No. 3PAH4


No. 3NRK8

FERNO® When It's Critical®

NORTH by Honeywell

Stretchers

Basket Stretchers—Use for rescue from confined spaces and elevated locations with poor access.

No. 2LBB8 has a flat carbon-steel patient support down its length. Replaceable netting adds support.

No. 2LBB9 has a fully internal stainless steel frame, HDPE outer shell, and single-plane sliding surface on the bottom. Replaceable closed-cell foam pad.

Nos. 2LBB7 and 46P351 feature an HDPE shell supported by a heavy-duty aluminum frame. Equipped with four 2-pc., quick-release restraints and a replaceable closed-cell foam mattress. No. 46P351 separates in half for easy storage and backpack transport to remote rescue locations.

No. 46P352 nonmetallic stretcher can be safely used in areas with electrical hazards and combustible atmospheres. Plastic-coated aluminum frame, plastic rivets, and wooden runners.

Scoop Stretchers—Eliminate the need for log-roll maneuvers to significantly decrease movement of the cervical spine. Adjusts to patient height.

All-aluminum No. 46P344 with open-center design permits patient to be X-rayed. Narrow foot-end frame for use in confined areas. Folds for storage.

No. 3CRF1 features X-ray translucent polymer construction and 2-pc. 5-ft. polypropylene webbing with quick-release buckles.

Pole Stretcher—Lightweight, heavy-duty aluminum frame folds lengthwise and crosswise for compact storage. Vinyl-coated nylon cover resists stains, blood, and bodily fluids. Nonslip handgrips.

Evacu-Aid™ Stretcher—Compact and lightweight stretcher features nonslip surface with reinforced stress points. Designed with 8 handgrips for safe patient transport by 2 to 4 people.

Traverse Rescue Stretcher—Use for horizontal or vertical casualty evacuations. Lightweight, compact design is ideal for high angle, confined space, and helicopter rescue operations. Webbing carry handles can be attachment points for a lifting bridle.

Emergency Stretcher—Flat stretcher for transferring patients who have no suspected spinal injury. Lightweight aluminum frame, bacteriostatic vinyl-coated nylon cover, folding 4" wheels, and posts.

Combination Stretcher Chair—Wheeled chair, stair chair, and flat stretcher. Aluminum frame, vinyl-coated nylon cover, restraints, and folding head- and foot-end posts and wheels.

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Basket Stretchers								
900 lb.	82½"	18"	7¼"	3	Black	Ferno	RE1107	**2LBB8**
2500 lb.	85"	23½"	7"	4	Red	Ferno	RE1125	**2LBB9**
600 lb.	86"	24"	8"	4	Orange	Ferno	71	**2LBB7**
600 lb.	86"	24"	8"	4	Orange	Ferno	71-M	**46P352**
600 lb.	86"	24"	8"	4	Orange	Ferno	71-S	**46P351**
Basket Stretcher Lifting Bridle For Use with Nos. 2LBB9, 2LBB7, 46P351								
600 lb.	54½"	1"	—	—	Orange	Ferno	418-1	**3CRE9**
Scoop Stretchers								
350 lb.	47" to 79"	17"	3"	3	Silver	Ferno	65	**46P344**
350 lb.	47" to 79"	17"	3 to 4"	3	Yellow	Ferno	PT6560	**3CRF1**

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Pole Stretcher								
350 lb.	81"	21½"	5¾"	—	Orange	Ferno	0101083	**3NRK1**
Evacu-Aid™ Stretcher								
350 lb.	72"	28"	1½"	—	Orange	Honeywell	4499920	**3PAH4**
Traverse Rescue Stretcher								
550 lb.	79½"	33"	—	6	Blue	Ferno	TRS	**46P353**
Emergency Stretcher								
350 lb.	74"	19"	8"	—	Orange	Ferno	PT1100	**3NRK8**
Combination Stretcher Chair								
350 lb.	73'	20"	9"	3	Maroon	Ferno	107	**46P335**

FERNO® When It's Critical®

GA GRAINGER APPROVED

IRON DUCK® BUILT FOR LIFE

FSI NORTH AMERICA® SAFETY THROUGH TECHNOLOGY A Division of Fire Safety International www.fsinorth.com


No. 2LBC1


No. 8CGD2


No. 52WU23


No. 46P328

Tactical Litter and Backboards

Tactical Litter—Features heavy-duty aluminum frame and hinges; includes 2 restraints. Durable polypropylene mesh cover allows blood, bodily fluids, and hazardous chemicals to flow freely away from patients. Mil. Spec. MIL-L-49511B.

Disaster Litter—Lightweight litter is ideal for use by EMS services, fire departments, law enforcement, or hospitals for mass casualty response.

Backboard—Lightweight, buoyant, seamless HDPE construction features 2 handles at a tapered end to help stabilize transport. Smooth head area allows attachment of all head immobilizer devices.

Millennia Backboard—Lightweight, contoured shape with easy-slide offers smooth patient movement in any space. Easy-to-clean plastic shell with foam-filled construction provides X-ray translucency.

Iron Duck Spineboards—Durable HDPE shell over nontoxic foam for durability and easy cleaning.

No. 52WU19 spineboard is X-ray and CT scan translucent and MRI scan compatible. Won't compromise CPR efforts or aggravate cervical spine injuries. No. 52WU23 folding spineboard is ideal for tight spaces. Stainless steel mechanical pivot and internal aluminum runners.

Disposable Backboards—Durable, virgin fiber corrugated backboards are coated to prevent absorption of rain or fluids. Require minimal storage space and are quickly and easily assembled.

Assembled Backboard Restraint Strap Kit—1-pc. restraints feature 2" nylon/polyester webbing with quick-release chrome-plated, automotive-type metal buckle. Includes a storage pouch.

Quick Restraint System—10-point, 6-strap system has color-coded nylon straps with hook-and-loop closures. Fits sizes from child to adult. Use with Backboard No. 2LBB5 and Scoop Stretchers Nos. 46P344 and 3CRF1, sold separately, this page.

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Tactical Litter								
1200 lb.	92"	23"	6"	2	Green/Black	Ferno	PT7970	**2LBC1**
Disaster Litter								
350 lb.	90"	22"	6"	2	Black	Ferno	PT7969	**3NRK7**
Backboard								
600 lb.	72"	16"	1¾"	—	Yellow	Ferno	NB1100	**2LBB5**
Millennia™ Backboard								
350 lb.	72"	18"	2"	—	Burgundy	GA	MILLENNIA BRGNDY 18	**8CGD2**
Spineboard								
500 lb.	72"	16"	1¾"	—	Orange	Iron Duck	35850-P-OR	**52WU19**

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Folding Spineboard								
500 lb.	72"	16"	2"	—	Yellow	Iron Duck	35940-YL	**52WU23**
Disposable Backboard with Straps, Pkg. of 5								
520 lb.	72"	21"	4"	4	Tan	FSI	F-EM-6	**4LUR5**
Disposable Backboard with Straps and Head Immobilizer, Pkg. of 5								
520 lb.	72"	21"	4"	4	Tan	FSI	F-EM-8	**4LUR6**
Assembled Backboard Restraint Strap Kit, Pkg. of 3								
—	7 ft.	—	—	—	Black	Ferno	439	**2LBB6**
Quick Restraint System								
—	—	—	—	—	Multi-Colored	Ferno	770	**46P328**

GA GRAINGER APPROVED

KAMP-RITE

Cots and Tent

For protection against inclement weather, select items include a waterproof rain fly with access door and air vents.

Folding Cots—Compact cots are easily stored and transported. Nos. 3PAH3 and 29TM93 have a mildew-resistant, washable polyester cover. No. 19TU18 has scissor-action folding legs reinforced with hinges, supports, and 2 snap-on end braces; includes a carrying bag. No. 13V987 features a drop-down storage pocket on each side that double as handles. No. 36UV16 unfolds for quick 1-person setup; includes carrying bag. No. 4VNG5 has fully adjustable head- and footrests for comfort and patient restraint straps.

Tent Cots and Gear Storage Bag—Heavy-duty, powder-coat construction. Each includes a rain fly. No. 4VNG2 includes wheeled roller bag. Gear Storage Bag clips on the framework of Tent Cots to provide additional storage.

IPS Tent—Use as traditional tent or place directly on cot. "No-See-Um" insect mesh. Carry bag for storage and transport.


No. 3PAH3


No. 4VNG4


No. 13V987


No. 4VNG3

Description	Weight Cap.	L	W	H	Cover Material	Frame Material	Color	Brand	Mfr. Model	Item No.
Folding Cots										
Standard	225 lb.	74.5"	25¼"	16"	Polyester	Steel	Green	GA	3PAH3	**3PAH3**
Standard	225 lb.	74½"	25¼"	16"	Polyester	Steel	Blue		29TM93	**29TM93**
Low-Profile	250 lb.	72"	24"	7½"	600D Polyester	Steel	Green	Kamp-Rite Tent Cot Inc	KREC121	**13V988**
Military Style	300 lb.	74½"	25"	16"	600D Polyester	Steel	Gray		FC211	**19TU18**
Standard	300 lb.	79"	28"	19"	600D Polyester	Steel	Black		FC711	**4VNG4**
Oversized	350 lb.	84"	33"	22"	600D Polyester	Steel	Black/Gray		FC421	**13V987**
EZ Fold	250 lb.	79"	28½"	18⅞"	600D Polyester	Steel	Blue/Gray		FC811	**36UV16**
Emergency Treatment	350 lb.	84"	32"	18"	600D Polyester	Aluminum	Black		ETC911	**4VNG5**
Tent Cots and Gear Storage Bag										
Compact Tent Cot	350 lb.	84"	32"	56"	190T Nylon	Aluminum	Green	Kamp-Rite Tent Cot Inc	OCTC443	**4VNG2**
Double Tent Cot with Rain Fly	500 lb.	84"	52"	59"	190T Nylon	Aluminum	Green		DCTC343	**4VNG3**
Gear Storage Bag	—	30"	24"	7"	600D Polyester	—	Black	GA	4VNG8	**4VNG8**
IPS Tent										
Insect Protection System (Cot Sold Separately)	—	78"	28"	38"	190T Nylon	—	Tan	Kamp-Rite Tent Cot Inc	KR-IPS	**36UV17**

Medical Field Cots

FSI NORTH AMERICA

Oversize cots feature a fire-retardant mattress that is easy to clean and decontaminate. Multiple-position head and foot adjustments. No. 4LUR9 includes a 1½"-thick mattress. No. 4LUT1 includes a 3"-thick mattress.

Disposable Linen Set includes pillow, pillow case, fitted sheet, cover sheet, and quilted blanket. White color.


No. 4LUR9

Description	Weight Cap.	L	W	H	Mfr. Model	Item No.
Medical Field Cots						
Economy Type	350 lb.	83"	28"	15"	F-EM-262A	**4LUR9**
Procedure Type with Drop Down Side Rails and IV Pole	550 lb.	83"	33"	30"	F-EM-560A-HBSR	**4LUT1**
Accessories						
Storage Cart, Holds 10 Beds	750 lb.	91"	37"	74"	F-EM-262CCPR	**38F346**
Disposable Linen Set, Pkg. of 10	—	—	—	—	F-LINEM-3A	**38F345**

KAMP-RITE

START Medical Cot

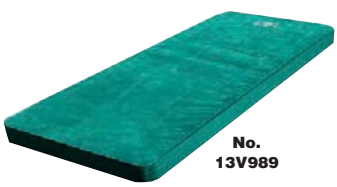


The START (Simple Triage and Rapid Treatment) cot is a portable and convenient tool for disaster relief or any medical situation. Includes a removable and machine washable pad. Multiple head and feet positions.

Weight Cap.	L	W	H	Mfr. Model	Item No.
350 lb.	78"	28"	18"	STAR911	**44ZE08**

KAMP-RITE

Cot Pads, Sleeping Bags, and Blanket/ Pillow Set


No. 13V989


No. 19TU19


No. 4VNG9

Self-Inflating Cot Pads—4"H rapid-inflate/deflate pads have velour top, durable PVC bottom, and include oversize storage bag, wrap straps, and repair kit.

Fleece Cot Pad—Soft double-sided pad features a fleece shell and polyester fill. Machine washable for reuse.

Sleeping Bags—Roomy rectangular shape with comfortable polyester construction. No. 19TU19 is machine washable and includes carrying bag.

Emergency Blanket and Pillow Set—Lightweight polyester/fleece blanket provides warmth and comfort. Conveniently packaged with a pillow for easy storage and use.

Description	Weight Cap.	L	W	Color	Mfr. Model	Item No.
Self-Inflating Cot Pads						
Single	250 lb.	77"	32½"	Green	SIP291	**13V989**
Double	350 lb.	77"	50"	Green	SIP391	**13V990**
Queen	400 lb.	77"	59"	Green	SIP491	**13V991**
Fleece Cot Pad						
2" Thick	—	82"	34"	Gray	FP421	**19TU17**
Sleeping Bags						
Summer Season, 40°F	—	78"	36"	Blue	SB261	**19TU19**
3 Season, 25°F	—	78"	36"	Blue	SB271	**19TU20**
Cold Weather, 0°F	—	80"	40"	Beige	SB281	**19TU21**
Emergency Blanket and Pillow Set						
Blanket and Pillow	—	77"	62"	Red/Orange	KRBP102	**4VNG9**



No. 4LUT3

FSI NORTH AMERICA
SAFETY THROUGH TECHNOLOGY
A Division of Fire Safety International
www.fsinorth.com

Decontamination Showers and Accessories

- Meet ANSI 113 Standards

1-pc. fully integrated shower systems are stable in high winds (up to 70 mph when properly anchored). Fire-retardant canopies are UV- and chemical-resistant.

3-Line Mass Casualty—For 3 to 6 ambulatory, 3 nonambulatory, or any combination. Handles 3 parallel lines of casualties at the same time in up to 4 stations: undress, detergent shower, rinse shower, and redress configuration.

2-Line Mass Casualty—Handles 2 parallel lines of casualties at the same time in 4 stations: undress, detergent shower, rinse shower, and redress configuration.

First Responder—Has full-closure, slip in-and-out, dirty entry/clean exit doors on each end. Includes 7 spray nozzles and 1 multifunction trigger spray gun.

Description	L	W	H	Mfr. Model	Item No.
Decontamination Showers					
3-Line Mass Casualty	20 ft.	13 ft.	9 ft.	DAT3060S	**4LUT7**
2-Line Mass Casualty	15 ft.	10 ft.	9 ft.	DAT3535S	**4LUT6**
First Responder	7 ft.	7 ft.	8 ft.	DAT2020S	**4LUT3**
Accessories					
Layflat Hose, 50 ft.				F-GH	**4LUV4**
Elevation Grid				F-TDMSPC	**4LUU8**
Waste Pump, 120V				F-WSP33AA	**4LUV3**
Electric Inflator, 120V				P-EIDHD	**4LUV9**
4 ft. x 8 ft. Inflatable Decon Pool, 160 gal.				DAP488	**38F322**
10 ft. x 10 ft. Inflatable Decon Pool, 500 gal.				DAP1010	**38F323**
Multi-Manifold Water Unit, 1.5" Inlet x 6 GHT Outlet				F-MMU156	**38F336**
Water Heater, 14 gpm, Multifuel				FSI Heat 200A	**4LUU6**
Portable Water Heater, Propane				F-ECC150WH	**55MU93**
Equipment Cart with Adjustable Shelf				F-HFRC	**4LUV5**
Bladder Tank, 300 gal.				F-HD300BT	**4LUV1**
Bladder Tank, 600 gal.				F-HD600BT	**4LUV2**
HEPA 400 CFM Air Carbon Filter Cleaning Unit				F-HAS	**38F335**
Detergent Injector				FSI Heat 201	**4LUU5**
Portable Detergent Injector with Cart				FSI HEAT 201C	**38F325**
Petrotech™ Concentrate, 4L				PTI25-4L	**38F337**



No. 4LPA8

ZODI™ Hot Water Decontamination Showers

Provide unlimited instant hot water for decon operations. The easy-to-use systems heat water to 100°F in seconds. The temperature-control valve can be adjusted with gloved hands. Units come on a rugged 40"H cart with large wheels for easy maneuverability. 70,000 Btu (No. 4LPA8) or 100,000 Btu (No. 3PVL3). Propane tank not included.

Description	Flow Rate	Mfr. Model	Item No.
Pro 70 System	3 gpm	5150	**4LPA8**
Pro 100 System	6 gpm	5170	**3PVL3**



No. 4PHU6

DQE®

Decontamination Showers and Accessories

Standard System—Stand-alone system allows for quick setup, thorough victim decontamination, and easy cleanup. Includes 4- x 8-ft. aluminum-frame collection pool, 2 elevation grids, handheld sprayer, shower enclosure, and vinyl carrying bag.

- Meets ANSI/ISEA 113-2013 Standards

Indestructo® System—Durable ABS pipe and fittings for rugged field conditions. Includes a 4- x 4-ft. self-supported collection pool, handheld sprayer, elevation grid, 2 wind screens, and vinyl carrying bag.

- Meets ANSI/ISEA 113-2013 Standards

Quick Response™ System—Durable construction withstands frequent training and field use. Includes 4- x 4-ft. aluminum-frame collection pool and handheld sprayer.

Decon in a Bag®—Heavy-duty vinyl carrying bag contains decon wand, compact water supply hose, scrub brush, liquid soap, 2 responders' splash suits, 4 victims' personal privacy kits, 4 contaminated clothing collection bags, and waterproof instructions.

Decono®—Portable unit for field use or in tight spaces. 5-pc. shower stores in vinyl bag (included).

Description	L	W	H	Mfr. Model	Item No.
Decontamination Showers					
Standard System	42"	36"	84"	HMK1101A	**4PHU3**
Indestructo® System	42"	34"	90"	HMK7000	**4PHU8**
Quick Response™ System	43"	47"	7½ ft.	HMK3101A	**4PHU6**
Decon in a Bag®	—	—	—	HM6000	**3PVK8**
Decono®	26"	57"	87"	HM2000	**3PVK7**
Accessories					
Decon Wand	44½"	—	—	HM6006	**3PVK9**
Decon Shower Sponge	—	—	5"	HM556	**3PVL1**
Electric Water Pump, 120V	—	—	—	HM1060	**4PHL6**
Collection Pool	4 ft.	4 ft.	6"	HM1025	**13A974**
Wastewater Tank, 150 gal.	4 ft.	5 ft.	12"	HM150B	**4PHL5**
Wastewater Tank, 1000 gal.	12 ft.	7 ft.	24"	HM1000B	**4PHL4**



No. 25R747



No. 25R755



No. 25R760

SECUR-ID™ Decontamination Kits and Property Bags

Decontamination Kits—Track people's possessions with unique ID numbers. Combo kits contain both Pre-Decon and Post-Decon kits.

Property Bags—Include step-by-step instructions, unique ID number and bar code on bag, and tearaway wrist receipt to track property. Personal Property Bags add a checklist printed on bag. Personal Property Kit includes bag with unique ID number and tearaway wrist receipt, pull tie, and 4-part form.

Description	Size	Mfr. Model	Pkg. Qty.	Item No.
Decontamination Kits				
Decon Combo Kit	Youth	COMBO2B-Y	15	**25R746**
Decon Combo Kit	Adult	COMBO2B-A	12	**25R747**
Decon Combo Kit	Large Adult	COMBO2B-LA	10	**25R748**
Property Bags				
Decon Property Bag	12 x 16"	DP12PLUS	250	**25R755**
Decon Property Bag	22 x 24"	DP22PLUS	250	**25R756**
Personal Property Bag	9 x 10"	PVS912	250	**25R760**
Personal Property Bag	19 x 20"	PVL1920	250	**25R761**
Personal Property Kit	30 x 66"	AYS302466	20	**25R762**

Sports Drinks and Thirst Quenchers

Ready-to-drink options and drink mixes have a blend of electrolytes and carbohydrates to help speed hydration and restore energy. Caffeine-free. Mix concentrate with water per instructions.

▶CHOOSE: Flavor	Yield Per Unit	Brand	Item No.	Pkg. Qty.
Ready-to-Drink				
Fruit Punch, Glacier Freeze, Fierce Grape, Lemon-Lime, Orange, Riptide Rush	20 oz.	Gatorade	**E1717**	24
Fruit Punch, Lemon-Lime, Orange—Includes 8 of Each Flavor	20 oz.	Gatorade	**48UT85**	24
Cool Blue	20 oz.	Gatorade	**36UP97**	24
Ready-to-Drink, Low Calorie				
Fruit Punch, Grape, Glacier Freeze	20 oz.	Gatorade	**H3995**	24
Ready-to-Drink, Sugar Free				
Cherry, Glacier Freeze, Lemon-Lime, Orange	20 oz.	Gatorade	**K2352**	24
Powder Concentrate Packs				
Fruit Punch, Lemon-Lime, Orange, Riptide Rush	1.0 gal.	Gatorade	**E2118**	1
Glacier Freeze, Riptide Rush, Fruit Punch, Lemon-Lime, Orange	2.5 gal.	Gatorade	**F8643**	1
Riptide Rush, Fruit Punch, Lemon-Lime, Orange, Glacier Freeze	6.0 gal.	Gatorade	**F9129**	1
Frosted Riptide Rush, Fruit Punch, Lemon-Lime, Orange—Includes 8 of Each Flavor	2.5 gal.	Gatorade	**40P485**	32
Single-Serve Powder Concentrate Packets				
Lemon-Lime, Fruit Punch, Orange	20 oz.	Gatorade	**D7437**	8
Single-Serve Powder Concentrate Packets, Low Calorie				
Fruit Punch, Grape, Glacier Freeze	20 oz.	Gatorade	**D5608**	8
Lemon	16 oz.	Propel	**403U26**	10
Berry	16 oz.	Propel	**403U27**	10
Strawberry Kiwi	16 oz.	Propel	**403U28**	10
Liquid Concentrate				
Fierce Grape, Fruit Punch, Orange, Lemon-Lime	6.0 gal.	Gatorade	**F8721**	1
Dispenser Rack and Pumps for Liquid Concentrate				
Includes Rack and 2 Pumps	—	Gatorade	**6AV22**	1
Replacement Pump for Liquid Concentrate	—	Gatorade	**3UZY7**	1
Beverage Coolers, Cups and Truck Bracket				
Jug with Flip Top, 1 gal.	—	Gatorade	**3UZX4**	1
Dispenser with Spigot, 3 gal.	—	Gatorade	**3UZX5**	1
Dispenser with Spigot and Cup Dispenser, 5 gal.	—	Gatorade	**3UZX6**	1
Disposable Cone Cups, 6 oz. Each	—	Gatorade	**3UZY1**	200
Cooler Truck Bracket	—	Gatorade	**3UZY4**	1



Ready-to-Drink Lemon-Lime



Ready-to-Drink, Sugar Free Glacier Freeze



Single-Serve Powder Concentrate Orange



Single-Serve Powder Concentrate Low Calorie Berry



Liquid Concentrate Fruit Punch



Beverage Dispenser with Spigot (Includes Cup Dispenser)



Sqweeze® Freezer Pops



Ready-to-Drink, Sugar Free Fruit Punch



Lite™ Stik Powder Concentrate Orange



Qwik Stik® Powder Concentrate Sugar Free Strawberry Lemonade



Lite™ Powder Concentrate Grape



Powder Pack® Zero Fruit Punch



Liquid Concentrate Mixed Berry



Cooler with Screw Top and Spigot

Freezer Pops, Sports Drinks and Thirst Quenchers

Designed for healthy electrolyte replacement and to help keep body hydrated. Electrolytes regulate body fluids during workouts and help prevent cramps and fatigue. Ideal for high-heat environments to reduce heat stress related illness. Drinks are available in ready-to-drink/serve or concentrated formula. Mix concentrate with water per instructions.

▶CHOOSE: Flavor	Yield Per Unit	Item No.	Pkg. Qty.
Sqweeze® Freezer Pops - Freeze and Eat			
Cherry, Grape, Lemon-Lime, Mixed Berry, Orange	3 oz.	**1UFK7**	150
Sugar Free Sqweeze® Freezer Pops - Freeze and Eat			
Fruit Punch	3 oz.	**31XH78**	150
Tangerine Orange	3 oz.	**31XH79**	150
Ready-to-Drink			
Strawberry Lemonade, Mixed Berry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime	20 oz.	**H1103**	24
Fruit Punch	12 oz.	**451G35**	24
Grape	12 oz.	**451G36**	24
Lemon-Lime	12 oz.	**451G37**	24
Orange	12 oz.	**451G38**	24
Ready-to-Drink, Sugar Free			
Mixed Berry, Orange, Fruit Punch, Grape	20 oz.	**D7436**	24
Orange	12 oz.	**31XH83**	24
Fruit Punch	12 oz.	**31XH84**	24
Single-Serve Packets			
Lite™ Stik Powder Concentrate			
Grape, Orange, Fruit Punch, Lemon-Lime	20 oz.	**J4675**	8
Qwik Stik™ Powder Concentrate, Sugar Free			
Fruit Punch, Orange, Strawberry Lemonade, Mixed Berry	20 oz.	**G5356**	10
Cool Citrus, Orange, Fruit Punch, Mixed Berry, Lemonade, Strawberry Lemonade, Lemon-Lime, Grape	20 oz.	**E1805**	50
Grape, Lemon-Lime, Fruit Punch, Lemonade, Mixed Berry, Orange	10 oz.	**E4766**	500
Qwik Stik™ Lite Powder Concentrate, Sugar Free			
Fruit Punch, Mixed Berry, Orange, Strawberry Lemonade	20 oz.	**24A952**	4
QwikServ™ Powder Concentrate			
Orange, Fruit Punch, Lemon-Lime, Grape	16.9 oz.	**G4152**	8

▶CHOOSE: Flavor	Yield Per Unit	Item No.	Pkg. Qty.
Powder Pack® Powder Concentrate Packs			
Fruit Punch, Grape, Lemon-Lime, Orange, Fruit Punch, Grape, Lemon-Lime, Orange	1.0 gal.	**E8439**	80
Fruit Punch, Grape, Lemon-Lime, Orange	2.5 gal.	**31XH80**	32
Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler, Cherry, Mixed Berry, Tea	2.5 gal.	**E9197**	1
Mixed Berry, Cherry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler	5.0 gal.	**E9198**	1
Powder Pack® ZERO Powder Concentrate Packs, Sugar Free			
Orange, Fruit Punch, Lemon-Lime, Grape	2.5 gal.	**J4676**	8
Liquid Concentrate			
Mixed Berry, Cherry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Strawberry Lemonade, Lemonade, Tropical Cooler	5.0 gal.	**E8438**	1
Liquid Concentrate Zero, Sugar Free			
Fruit Punch, Grape, Lemon-Lime, Orange, Mixed Berry	5.0 gal.	**E1804**	1
Fast Pack® Zero Liquid Concentrate			
Orange, Fruit Punch	6 oz.	**E4767**	50
Fast Pack® Liquid Concentrate			
Mixed Berry, Cherry, Tea, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler	6 oz.	**E8440**	50
Replacement Pump for Liquid Concentrate			
Pump Spout	—	**3VAA9**	1
Beverage Cooler			
Cooler with Screw Top and Spigot, 28 hr. cool	—	**40TP41**	1



niagara BOTTLING, LLC

Bottled Water

Refreshing, purified bottled water helps keep you cool and hydrated. Comes in eco-air™ friendly bottle that contains 50% less plastic.

Description	Bottle Size	Case Qty.	Bottle Qty.	Item No.
Pallet of Bottled Water	16.9 oz. per Bottle, 24 Bottles per Case	84	2,016	**52WT31**
Full Truckload of Bottled Water		1,596	38,304	**40ZJ77**



No. 25K814



No. 15J132

Beverage Cups

GA GRAINGER APPROVED

DIXIE

Description	Cap.	Brand	Item No.	Pkg. Qty.
Cone Cups	4¼ oz.	GA	**25K814**	200
	4¼ oz.	GA	**25K815**	1000
Disposable, Polycoated Cold Cups (Wrapped)	5 oz.	Dixie	**55AK18**	1200
Disposable, Polycoated Cold Cups (Unwrapped)	12 oz.	Dixie	**15J132**	1200



No. 6YG04



No. 38D839



No. 5DDA9



No. 4AAN7

IGLOO GA GRAINGER APPROVED

Beverage Dispensers

Cap.	Body Color	Exterior Dim. H	Exterior Dim. Dia.	Brand	Item No.
Dispensers					
2.0 gal.	Yellow	14¾"	11½"	Igloo	**6YG04**
3.0 gal.	Yellow	14"	13½"	Igloo	**3ZC45**
5.0 gal.	Red	20⅛"	12²³⁄₆₄"	GA	**38D839**
5.0 gal.	Yellow	20⅛"	13"	Igloo	**5DDA9**
5.0 gal.	Green	20³⁄₁₀"	13"	Igloo	**3UYY8**
10.0 gal.	Yellow	23¼"	15⁵¹⁄₆₄"	Igloo	**5DDC0**
10.0 gal.	Green	23¼"	15⁵¹⁄₆₄"	Igloo	**3UYY9**

Description	Brand	Item No.
Accessories		
Cup Dispenser Holds 4½-oz. Cone Cups	Igloo	**3ZC43**
Cup Dispenser Holds 7 to 8-oz. Cone Cups	Igloo	**4GL74**
Wire Cooler Rack Fits 2-, 3-, and 5-gal. Coolers	GA	**4AAN7**
Wire Cooler Rack Fits 2-, 3-, and 5-gal. Coolers	Igloo	**3ZC49**
Wire Cooler Rack Fits 10-gal. Coolers	GA	**4AAN8**
Wire Cooler Rack Fits 10-gal. Coolers	Igloo	**4GL83**



No. 3UYY9

IGLOO Coleman

Beverage Jugs

Swing-up, large bail handle for easy carrying. Keep your beverage cold in this durable, dent-resistant cooler. Wide-mouth top, twist-on cap, and flip-top spout make filling and drinking easy. Stain- and odor-resistant liner helps prevent residual odors.



No. 16D320



No. 3UYY6

Cap.	Body Color	Exterior Dim. H	Exterior Dim. Dia.	Brand	Item No.
1.0 gal.	Red	13⅜"	7⅝"	Igloo	**16D320**
0.5 gal.	Blue	10½"	5¾"	Coleman	**3UYY6**



No. 4AAP9



No. 38D840



No. 1HUG6

Personal Coolers

GA GRAINGER APPROVED IGLOO

PERSONAL COOLERS

No. 4AAP9 flip lid stays attached and serves as a tray. No. 38D840 insulated cooler has a black diamond-plate exterior texture for a rugged appearance. Lid swings open for easy access; side-button release closes tightly to prevent spills. Offers a molded-in handle for one-handed carrying.

PLAYMATE® PERSONAL COOLERS

Top push button for easy, one-handed opening and molded handle.

Description	Cap.	Body Color	Exterior Dim. L	Exterior Dim. W	Exterior Dim. H	Brand	Item No.
Personal Coolers	11.6 qt.	Red	13½"	10⁹⁄₁₆"	8⅞"	GA	**4AAP9**
	14 qt.	Black	14½"	10½"	13⅜"	GA	**38D840**
Playmate® Personal Coolers	7 qt.	Red	11¾"	8¼"	12"	Igloo	**1HUG4**
	16 qt.	Red	16"	10¼"	15"	Igloo	**1HUG6**

GA GRAINGER APPROVED

IGLOO

PELICAN

Coleman

Chest-Style and Wheeled Full-Size Coolers

CHEST-STYLE COOLERS

Classic—Easy to carry. No. 4AAP6 has a push-button lock that allows one-handed opening and molded handles in the body. No. 4AAP7 includes a drain and a lid with cup holders, hatch, and swing-up handles.

Marine Ultra™—Tie-down loop secures cooler to boat deck. Additional features include swing-up handles and stain- and odor-resistant liner.

Nos. 15F158 and 15F159 have a triple-snap drain plug and molded-in ruler to measure fish length. No. 15F159 provides 4-day cooling, and has a snap-fit latch to secure the lid closed.

Quick & Cool®—Threaded drain plug for hose hookup. Dual-snap lock and childproof safety lid latches.

Polar—Ultratherm® insulation in body and lid keeps ice frozen up to 5 days. Features reinforced swing-up handles, dual snap-fit latches, and threaded drain plug.

Elite—Rugged coolers have 2" thick polyurethane insulation that retains ice up to 10 days. Features freezer-grade gaskets, molded-in and hinged handles, nonskid and nonmarking raised feet, and corrosion-resistant stainless steel hardware. Certified bear-resistant by the IGBC.

WHEELED COOLERS

Performance—Heavy-duty wheels and telescoping handle let you roll over almost any terrain. ThermOZONE™ insulation keeps items cold for 3 to 4 days. Features Have-A-Seat™ lid and molded cup holders and handles.

Xtreme® 5—Extra ThermOZONE™ insulation keeps ice up to 5 days in temperatures up to 90°F. Easily transported with all-terrain wheels and comfortable, 2-way handles. Hinged lid has 4 cup holders to keep drinks within reach. Include rustproof, leak-resistant channel for no-tilt draining.



No. 4AAP6



No. 4AAP7



No. 15F159



No. 3NY88



No. 52PF35



No. 29PL78



No. 29PL80



No. 36MY81



No. 36MY61

Description	Cap.	Body Color	Lid Color	Exterior Dim. L	W	H	Brand	Mfr. Model	Item No.
Chest-Style Coolers									
Classic	32 qt.	Red	White	20 5/16"	10 1/2"	13 3/8"	GA	—	**4AAP6**
Classic	60 qt.	Red	White	24 1/8"	15 3/4"	16 1/8"	GA	—	**4AAP7**
Marine Ultra™	36 qt.	White	White	24 1/4"	13 1/2"	13"	Igloo	44679	**15F157**
Marine Ultra™	48 qt.	White	White	26"	14 3/8"	14 1/2"	Igloo	44681	**15F158**
Marine Ultra™	54 qt.	White	White	25 1/2"	15 1/2"	15 1/2"	Igloo	44683	**15F159**
Quick & Cool®	100 qt.	White	White	35 1/4"	17 3/8"	16 3/4"	Igloo	11442	**3NY88**
Quick & Cool®	150 qt.	White	White	41 5/8"	18 7/8"	20 1/4"	Igloo	44363	**1NZ54**
Polar	120 qt.	White	White	38 45/64"	18 9/64"	18 1/2"	Igloo	44577	**52PF35**
Elite	95 qt.	White	White	39"	21"	26"	Pelican	95QT	**29PL77**
Elite	95 qt.	Tan	Tan	39"	21"	26"	Pelican	95QT	**29PL78**
Elite	150 qt.	Tan	Tan	46"	26"	26"	Pelican	150QT	**29PL80**
Wheeled Coolers									
Performance	45 qt.	Blue	White	18"	17 39/64"	17 1/2"	Coleman	3000002455	**36MY78**
Performance	60 qt.	Blue	White	22 39/64"	17 39/64"	17 1/2"	Coleman	3000005152	**36MY81**
Xtreme® 5	75 qt.	Blue	White	26 29/64"	19 1/2"	20 5/16"	Coleman	3000001733	**36MY61**
Xtreme® 5	100 qt.	Blue	White	36 1/4"	18 1/2"	16 1/2"	Coleman	6201A748	**36MY62**



No. 36MY62

Hydration Packs


No. 493R79


No. 493R87


No. 493R91


No. 1RY39


No. 1RY36

CAMELBAK®

Each includes a low-profile Mil Spec Antidote™ reservoir with Quick Link™ exit port and QL HydroLock™ bite valve adapter.

HydroBak®—Ergonomic, versatile, and economical hydration-only pack for everyday tasks. Features double-ripstop construction, a rear reservoir access flap, and a front zip pocket. Holds enough water for 1-2 hours of activity.
- **Front and back panel are 300 Denier polyester fabric**

ThermoBak™ 3L—Quick-release shoulder straps unclip for easy removal and storage inside back panel stash pocket. Double-ripstop construction, external fill to Crux™ reservoir, and two-zipper fill cover. Hydration only.
- **500 Denier Cordura® fabric**

Watermaster™—Tough pack is constructed with a tearaway harness and easy strap management. Features one-handed flow control, Big Bite™ valve cover, integrated access port cover, stash pocket on fill flap, and mesh back panel. Insulated pack keeps water cool.
- **500 Denier Cordura® fabric**

Stealth™—Quick-release shoulder harnesses and a hook-and-loop panel for name tags and unit badge. Double-ripstop construction and CRUX™ reservoir with external fill. Hydration only.
- **500 Denier Cordura® fabric**

Hi-Viz™—High visibility color for worker safety. Tearaway harness helps prevent accidents and convenient stow pocket holds keys and other essentials. External access CRUX™ Reservoir delivers 25% more water per sip. Hydration only.

BFM™—Features low-profile Mountain™ MOLLE panel on front for secure attachment of accessory pouches. Double-ripstop construction. 4 zippers on main compartment allow for multiple access points to gear plus 7 exterior pockets. Offers multiple drink tube exit ports for routing tube over the shoulder or underan arm. The new Futura™ harness, which adjusts for individual torso length and plate carrier configurations, stays comfortable on even the longest of operations.
- **500 Denier Cordura® fabric**

ERGODYNE CHILL-ITS® LOW-PROFILE
- **420 Denier nylon (Nos. 1RY36 and 1RY39)**
- **600 Denier water-resistant rip stop polyester (No. 32NC04)**

Hydration packs help keep workers hydrated. The insulated pack and tube keep water cool. Each pack includes a zip-up cover, plus the cover on the 100% antimicrobial bite valve keeps out debris and contaminants. Breakaway shoulder straps for extra security. Nos. 1RY36 and 32NC04 have 2-tone reflective chevrons for visibility at night.

Description	Cap.	Color	Brand	Mfr. Model	Item No.
HydroBak™	50 oz./1.5L	Black	Camelbak	1737001000	**493R82**
ThermoBak™ 3L	100 oz./3L	Black	Camelbak	1683001000	**493R79**
Watermaster™	85 oz./2.5L	Blue	Camelbak	1749401000	**493R92**
Stealth™	85 oz./2.5L	Black	Camelbak	1746001000	**493R88**
Hi-Viz™	85 oz./2.5L	High Visibility Lime	Camelbak	1736702000	**493R87**
BFM™	1700 oz./50L	Black	Camelbak	1727001000	**493R91**
Chill-Its® Low-Profile	70 oz./2L	Black	Chill-Its By Ergodyne	GB5155	**1RY39**
	70 oz./2L	High Visibility Lime	Chill-Its By Ergodyne	GB5155HV	**1RY36**
	70 oz./2L	High Visibility Orange	Chill-Its By Ergodyne	5155HV	**32NC04**


No. E7354


No. D9245


No. D2428


No. D2429


No. 40LR10


No. E7357


No. 2KJN7

Cooling Vests

HyperKewl™ Evaporative Vests—Up to 10 hr. evaporative cooling is activated with 1 to 2 min. in water; squeeze out excess. Front zip closure.

Vests for Inserts—100% cotton zip-front vest has 4 pockets for inserts (sold separately) and hook-and-loop shoulder and side straps to ensure a snug fit.

Feathered Ice Insert No. 5WYD5 has a pliable powder that conforms to your body when frozen. Phase Change Insert No. 5WYD6 freezes in refrigerator or ice water. Delivers a constant 58°F temp. up to 3 hr.

Evaporative Cotton Vests—Lightweight vest protects against excessive heat for up to 72 hr. Polymer fabric is activated by soaking in water for 5 to 9 min. Cotton shell has hook-and-loop closures.

Chill-Its® Evaporative Nylon Vests—Nylon vests feature evaporative polymer-embedded fabric that activates when soaked in cold water for 2 to 5 min. Quilted nylon V-neck shell with zipper closure and water-repellent liner.

Dry vests can be filled with water for up to 3 days of cooling ability. V-neck with zip closure and mesh side panels to provide additional ventilation and stretch.

Phase Change Vests—Thermal-lined cotton vests zip closed to hold cooling inserts close to the wearer. Reusable inserts (included) are activated by ice water or in refrigerator and stay cold up to 3 hr. Zip-closed cooler bag included.

Vortex Vests—Allow adjustable or continuous cooling through perforated inner lining. Vortex tube forces heat exchange to separate compressed air into cold air streams.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Brand	Item No.
HyperKewl™ Evaporative Vests	S, M, L, XL, 2XL, 3XL	Khaki, Silver, High Visibility Lime, Blue	Techniche	**E7354**
Vests for Inserts	L, XL, 2XL	Blue	Allegro	**D9245**
Feathered Ice Inserts, Pkg. of 4	13" x 6"	White	Allegro	**5WYD5**
Phase Change Inserts, Pkg. of 4	6" x 14"	White	Allegro	**5WYD6**
Evaporative Cotton Vests	L, XL, 2XL	Blue	Allegro	**D2428**
Chill-Its® Evaporative Nylon Vests	M, L, XL, 2XL, 3XL	High Visibility Lime	Chill-Its By Ergodyne	**D2429**
Chill-Its® Dry Evaporative Vests	M	Lime	Chill-Its By Ergodyne	**40LR10**
	L	Lime	Chill-Its By Ergodyne	**40LR11**
	XL	Lime	Chill-Its By Ergodyne	**40LR12**
	2XL	Lime	Chill-Its By Ergodyne	**40LR13**
Phase Change Vests	M/L, L/XL, 2XL	High Visibility Lime	Techniche	**E7358**
	M/L, L/XL, 2XL	Khaki, Blue	Techniche	**E7357**
Phase Change Flame-Resistant Vest	L/XL	Navy Blue	Techniche	**45A287**
Phase Change Inserts, Pkg. of 4	—	—	Techniche	**8WP74**
Vortex Vests	M/L	Black	Allegro	**2KJN7**
	XL/2XL	Black	Allegro	**2KJN8**

WATERJEL TECHNOLOGIES

Burn Dressings, Creams, and Gels

Sterile dressings are medical-grade, nonwoven polyester soaked in a water-based, water-soluble gel to help prevent burn progression. Creams and gels help relieve pain and protect wounds from contamination.



No. 415J23



No. 2AD94

Description	Item No.	Pkg. Qty.
Sterile Dressings		
4" x 4"	**415J23**	15
4" x 4", Unitized Package	**1PCZ9**	1
4" x 16"	**415J24**	7
Creams and Gels		
Burn Cream, 0.9g	**1PBZ3**	25
Burn Cream, 0.9g	**1PBZ5**	144
Cool Burn Gel, 0.125 oz.	**4RL91**	25
Burn Gel, 0.125 oz.	**2AD94**	25
Ointment		
Triple Antibiotic Ointment, 0.9g	**1PCC4**	25
Creams and Gels		
Triple Antibiotic Ointment, 0.9g	**1PCC6**	144
Neomycin Sulfate Cream, 0.9g Foil Packs	**1PBZ7**	25
Neomycin Sulfate Cream, 0.9g Foil Packs	**1PBZ9**	144
Hydrocortisone Cream, 0.9g	**1PBY4**	25

Medique® MEDI-FIRST
Honeywell NORTH HEAT factory SUPPLIER DIVERSITY

Cold/Hot Packs and Wraps

Help relieve minor aches and pains.



No. 5GTH7



No. 3LPG2

Description	Brand	Item No.	Pkg. Qty.
Biofreeze Gel, 4-oz. Tube	Biofreeze	**5GTH7**	1
Biofreeze Gel, 16-oz. Pump	Biofreeze	**5GTH8**	1
Cold Pack, 6" x 4"	Medi-First	**3LPG2**	1
Cold Pack, Unitized	Honeywell	**2AG23**	1
Cold Pack, 5" x 6"	Honeywell	**4T362**	10
Cold Pack, 5" x 9"	Honeywell	**1PCH4**	24
Hot Pack, 5" x 9"	Honeywell	**1PCE2**	1
Heated Backwrap	Heat Factory USA	**3ZLA1**	1
Replacement Warmer	Heat Factory USA	**3ZKZ9**	3
Adhesive Body Warmer	Heat Factory USA	**3ZLA2**	3

SunX® Medique® IvyX™ BugX

Outdoor Skin Protection

SunX® SPF 30+ Sunscreen—Nongreasy, water-resistant formula provides both UV-A and UV-B protection.

Medique®—Medicated lip ointment with all natural ingredients to soothe and hydrate dry, chapped lips.

IvyX®—Provide an invisible barrier for precontact protection against poison ivy, oak, and sumac. Cleansers help remove plant oils from skin after contact with poisonous plants.

BugX®—Contain 30% DEET to effectively repel fleas, flies, mosquitoes, and ticks.



No. 1PBT3



No. 3UUG9



No. 3VAN6 No. 1PBU6

Description	Item No.	Pkg. Qty.
SunX® SPF30+ Sunscreen		
Lotion, 2 oz.	**1PBT5**	1
Lotion, 4 oz.	**1PBT3**	1
Lotion, ¼-oz. Pouch	**8C298**	50
Medique® Lip Guard		
0.9g Foil Packs, Unitized	**3UUG9**	20
IvyX® Poison Ivy and Oak Skin Protection		
Cleanser Lotion, 8 oz.	**3VAN6**	1
Cleanser Towelettes, 6⅓ x 8¼"	**3VAN4**	25
BugX® Insect Repellents		
Pump Spray, 2 oz.	**1PBU6**	1
Towelettes, 8 x 5"	**6AZ07**	50



No. 48LW60


No. 2MRZ2



No. 36LF43



No. 3LPH3





No. 3WHT9



No. 2MRY3



No. 14N933



No. 5ELX0

Honeywell NORTH MEDI-FIRST GA GRAINGER APPROVED Medique®
FIRST AID ONLY NEOSPORIN® WATERJEL TECHNOLOGIES PhysiciansCARE

Topical Skin Treatment

Help clean skin and protect it from contamination.

Description	Brand	Item No.	Pkg. Qty.
Antiseptic			
Burn Spray, 3-Oz.	Honeywell	**3EWH9**	1
Antiseptic Spray, 2 oz	Medi-First	**48LW60**	1
Antiseptic Wipes, 5 in x 8 in	GA	**3VAL5**	20
Antiseptic Wipes, 4 ¾ in X 7 ¾ in	Medi-First	**14U289**	100
Isopropyl Alcohol			
Isopropyl Alcohol, 70%, 16 oz.	Medique	**2MRZ2**	1
99%, 16 oz.	Medique	**3WHL3**	1
Isopropyl Alcohol, 99%, 1 gal.	Medique	**3WHL2**	1
Alcohol Wipes, 2 ¼ in x 1 ⅛ in	First Aid Only	**36LF43**	100
Triple Antibiotic Ointment			
Neosporin®, 1-oz. Tube	Neosporin	**14N927**	1
Neosporin®, 0.9g Foil Packs	Neosporin	**14N928**	144
Triple Antibiotic Ointment, 0.5g Foil Packs, Unitized	Medi-First	**3LPH3**	144
Triple Antibiotic Ointment, 0.9g	Waterjel	**1PCC6**	144
Neomycin Sulfate Ointment			
Single Antibiotic Ointment, 0.9g	First Aid Only	**3WHT9**	10
Blood Clotter Spray			
3 oz.	Medique	**2MRY2**	1
Topical Coolant Spray			
4 oz.	Medique	**2MRY3**	1
Lip Treatment			
0.9g Foil Packs, Unitized	Medique	**3UUG9**	20
Vaseline Petroleum Jelly			
3.25 oz.	PhysiciansCare	**3EWJ8**	1
Petroleum Jelly			
15 oz.	First Aid Only	**5DXX7**	1
Bactine®			
Spray, 5 oz.	Bactine	**14N933**	1
Liquid, 4 oz.	Bactine	**14N934**	1
Liquid Bandage			
1 oz.	Honeywell	**5ELX0**	1
Anti-Sting Wipes			
1.1g Foil Packs	First Aid Only	**3UCH9**	25


No. 6TEW6


No. 36LF41


No. 3JNK6



GA GRAINGER APPROVED

FIRST AID ONLY. MEDI-FIRST Honeywell NORTH

Bandages and Dressings

Help protect minor cuts and scrapes.


No. 4RM13

Description	Brand	Item No.	Pkg. Qty.
Adhesive Cloth Bandages			
Fingertip, 1¾" x 3", Fabric	GA	483T57	40
1⅜" x 2", Fabric	First Aid Only	39N889	50
¾" x 3", Fabric	First Aid Only	41CP80	1
⅞ x 3", Fabric	Medi-First	3JMG3	50
1" x 3", Fabric	Honeywell	45W720	16
Bandages, 1" x 3", Fabric	First Aid Only	6TEW6	100
2" x 3", Fabric	First Aid Only	36LF36	25
2" x 3", Fabric	First Aid Only	39N882	50
Knuckle, 1½" x 3", Fabric	First Aid Only	41CP67	1
Knuckle, 1½" x 3", Fabric	First Aid Only	39N883	8
Bandages, Knuckle, 3¼" x 3½", Fabric	First Aid Only	36LF31	40
Heavy Adhesive Cloth Woven Bandages			
Knuckle, 3¾" x 3¼", Fabric	Honeywell	3EVZ6	40
Bandages, ¾" x 3", Adhesive Plastic	First Aid Only	39N861	16
Adhesive Plastic Bandages			
1" x 3", Plastic	First Aid Only	39N858	16
Bandages, 1" x 3", Plastic	First Aid Only	36LF30	100
Bandages, 2" x 4", Plastic	First Aid Only	36LF41	25
Patch Bandages, 2" x 3", Plastic	Honeywell	3EWN7	50
Butterfly, Large, ½" x 2¾", Plastic	First Aid Only	39N865	16
Metal-Detectable Bandages			
1" x 3", Plastic, Blue	Medi-First	3JNK6	100
Adhesive Tape			
½" x 2½ yd.	Honeywell	1PCZ7	2
½" x 5 yd.	Honeywell	5M566	1
½" x 10 yd.	Honeywell	3EWC1	1
1" x 10 yd.	Honeywell	3EWC3	1
2" x 10 yd.	Honeywell	5ELT5	6
Elastic 1" x 5 yd.	Honeywell	3EWC4	1
2" x 5 yd. Latex-Free Waterproof	Honeywell	1PCG1	1
Compresses			
5" x 8" Bloodstopper	Honeywell	3EWD5	1
12" x 30" Multitrauma Dressing	Honeywell	3EWE6	1
24" x 72" Gauze Compress	Honeywell	3AV36	1
Triangle Bandage			
Sterile, with Pins	Honeywell	6AN08	1
Self-Adherent Wraps			
1" x 5 yd.	Honeywell	4RM13	5
2" x 5 yd.	Honeywell	4RM14	1
3" x 5 yd.	Honeywell	4RM15	1
4" x 5 yd.	Honeywell	4RM16	1
Pads, Sponges & Gauze Wraps			
2" x 3" Nonadherent Pad, Sterile	Honeywell	4TWG6	10
2" x 3" Nonadherent Pad, Sterile	Honeywell	3EWD6	50
2" x 2" Gauze Pads, Sterile	Honeywell	3EWD9	25
4" x 4" Gauze Pads, Sterile	Honeywell	4TWG5	10
4" x 4" Gauze Pads, Sterile	Honeywell	3EWE1	25
4" x 4" Gauze Pads, Sterile	Honeywell	3EWE4	100
2" x 2" Gauze Sponges	Honeywell	3EWE7	200
3" x 3" Gauze Sponges	Honeywell	3EWE8	200
4" x 4" Gauze Sponges	Honeywell	3EWE9	200
Gauze Bandages			
2" x 4.1 yd., Sterile	Honeywell	3EWC6	12
3" x 4.1 yd., Sterile	Honeywell	3EWC7	12
Elastic Bandages			
3" x 5 yd.	Honeywell	1PBP5	5
4" x 5 yd.	Honeywell	1PBY2	5

Medicines sold separately


No. 33KE69


No. 45NG79

Medicine Vending Machines

Steel wall-mount cabinets hold up to 6 different types of single-dose medication packets. White color. Medicine packets sold separately on this page and at Grainger.com®.

Vending Price	No. of Product Selections	H	W	Item No.
Health Aid 6 Machines				
0.25	6	29½"	20"	33KE69
0.50	6	29½"	20"	33KE70
0.75	6	29½"	20"	33KE71

Vending Price	No. of Product Selections	H	W	Item No.
Health Aid 4 Machines				
Free	6	29½"	20"	45NG77
0.25	4	21"	20"	45NG79
0.50	4	21"	20"	45NG80
0.75	4	21"	20"	45NG81


No. 14N920


No. 3NNW2

MEDI-FIRST Advil Alka-Seltzer Medique® Honeywell NORTH

Oral Medicines

For pain, stomach, and cold relief.

Description	Brand	Item No.	Pkg. Qty.
Pain Relief			
Aspirin, 325mg	Medi-First	3NNV1	100
Advil® Gel Caplets, 200mg, 50 Packs of 2	Advil	14N920	100
Ibuprofen, 200mg, 50 Packs of 2	Medi-First	3NNW6	100
Ibuprofen, 200mg, 125 Packs of 2	Medi-First	3NNW7	250
Pain Relief Tablets, Extra Strength	Medi-First	3XKY6	100
Pain Relief Tablets, Extra Strength	Medi-First	3NNW4	250
Non-Aspirin Pain Relief	Medi-First	3NNV8	250
Extra Strength Non-Aspirin Pain Relief	Medi-First	3NNW2	250
Acid & Stomach Relief			
Antacid, Calcium Carbonate, 50 Packets of 2	Medi-First	8AY50	100
Antacids and Indigestion Tablets	Medi-First	9WAP6	250
Alka-Seltzer Antacids and Indigestion Tablets	Alka-Seltzer	14N922	24
Allergy, Sinus & Cold Relief			
Sinus and Allergy	Medique	3XKY8	100
Cold and Flu	Medi-First	3NNR2	250
Hydration & Replenishment			
Glucose Gel, 31g	Honeywell	3PAD5	1


No. 9ML59

Eye Care Products

Bausch & Lomb PhysiciansCare

Eye drops for rewetting and redness relief. Eye wash provides immediate and soothing relief from minor eye irritations.

Description	Brand	Item No.	Pkg. Qty.
Eye Drops, 0.02-oz., Single Use	Bausch & Lomb	9ML59	28
Buffered Eyewash, 1 oz.	PhysiciansCare	36N054	1
Buffered Eye Wash, 4 oz.	PhysiciansCare	36N055	1
Buffered Eyewash, 8 oz.	PhysiciansCare	36N056	1
Buffered Eyewash, 16 oz.	PhysiciansCare	36N057	1
Buffered Eyewash, 32 oz.	PhysiciansCare	36N058	1



GUARD-TEX® Finger Safety Tape

GENERAL BANDAGES

Keep fingers, palms, and wrist safe from abrasive or heated objects while retaining dexterity and sensitivity. Self-adhering, latex-free cotton tape will not stick to skin, hair, or clothing.

▶CHOOSE: Color	Size	Item No.	Pkg. Qty.
Blue, Green, White	¾" x 90 ft.	E1700	16
	1" x 90 ft.	E1699	12


No. 5ELT7




No. 2MRY1

No. 2MRY7

Honeywell NORTH ALLEGRO INDUSTRIES SUPPLIER DIVERSITY Medique® FIRST AID ONLY.

First Aid Supplies and Tools

Essential supplies and tools for physicians' offices or other healthcare facilities.

Description	Brand	Item No.	Pkg. Qty.
Supplies			
Cotton Tip Applicators, 3"L	Honeywell	5ELT7	25
Cotton Tip Applicators, 6"L	Allegro	2RPK9	1000
Cotton Tip Applicators, Sterile, 6"L	Honeywell	1VAA9	200
Eye Cups, Plastic	Honeywell	3PAD2	6
Tongue Depressors, 6"L	Medique	2MRY1	500
Tools			
Eye Magnet with Loop Handle	Honeywell	3PAD8	1
Fingertip Wire Saw	Honeywell North	5ELW9	1
Ring Cutter, Stainless Steel, 6½"L	First Aid Only	2TUV2	1
Splinter Remover, Steel Tri-Bevel Blade with Plastic Case	Medique	2MRY7	10
Tweezer with Magnifier, Pointed, Stainless Steel, 4"L	Medique	2MRZ1	1

ANSI/ISEA Z308.1-2015 Standard for First Aid Kits

The new standard introduces two classes of first aid kits, Class A and Class B. The kits are further designated by type (I, II, III). Each type is intended to address the needs of the work environments where they are used.

Class A—Designed for the most common workplace injuries.

Class B—Designed to be equipped with supplies to deal with injuries encountered in more complex or high-risk environments.

Type I: Intended for use in stationary, indoor applications where kit contents have minimal potential for damage. These kits are not intended to be portable and should have a means for mounting in a fixed position.

Type II: Intended for portable use in indoor applications where the potential for damage to kit supplies due to environmental factors and rough handling is minimal.

Type III: Intended for portable use in mobile indoor and/or outdoor settings where the potential for damage of kit supplies due to environment is not probable. These kits should have the means to be mounted in a fixed position and have a water-resistant seal.

★ GA GRAINGER APPROVED

No. 488G87



Class A First Aid Kits

- Meet ANSI/ISEA Z308.1 Standard except Nos. 49JE49 to 49JE52

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
I, II	25	89	Plastic	8"	2½"	9"	**488G87**
I, II	25	94	Metal	9"	3"	11¼"	**45NJ76**
I, II	50	241	Metal	14¼"	3"	3¼"	**40JH19**
I, II	50	241	Plastic	4⅛"	14"	13"	**488G89**
III	25	84	Metal	2⅜"	6⅜"	9"	**488G83**

Kit Component Description	Components Included with First Aid Kit Nos. 488G87	488G83	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape				
Bandages, 1" x 3", Adhesive Plastic, 40 ct.	•		65DG12	1
Sterile Eye Pads, 3" x 3"	•		3WHU2	10
First Aid Tape, ½" x 5 yd.	•		36LF70	1
Trauma Pad, 5" x 9"	•		48ZE52	1
Conforming Gauze Roll, 2"	•		3WHR9	1
Sterile Gauze Pads, 3" x 3"	•	•	39N958	4
Triangular Bandages, 40" x 40" x 56"	•		3WHT4	1
Pain Relief and Antiseptics				
BZK Antiseptic Towelettes	•	•	39N904	10
Hand Sanitizer Gel Packets, 0.9g	•		41CR54	1
Cold Pack, 4" x 5"	•		45JE51	1
Personal Eye Wash Bottle, 1 oz.	•		40JH48	12
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	39N914	12
First Aid/Burn Cream Packets, 0.9g	•		3WHT8	10
Burn Dressing, 4" x 4"	•		45JE50	1
Additional Items				
CPR Faceshield	•		40JJ29	1
First Aid Guide	•	•	40JJ14	1
Nitrile Exam Gloves, 2 Pr.	•		3WHT7	4
Scissors	•		65DG26	1
1 CPR Faceshield, 1 Pr. Scissors & 1 First Aid Tape, ½" x 5yd		•	480G01	1
Hand Sanitizer Packets, 0.9g, 10 ct.		•	48ZV46	1
Adhesive Fabric Bandages, 1" x 3", 16ct		•	39N868	16
First Aid/Burn Cream Packets, 0.9g, 12ct		•	39N910	12
Burn Dressing, 4" x 4"		•	39N950	1
Cold Pack, 4" x 5"		•	39P018	1
Exam Gloves, Nitrile, 2 Pr.		•	39P031	2
Triangular Bandage, 40" x 40" x 56"		•	39N977	1
Eye Wash, 1 oz. with 2 Eye Pads and Strips		•	49H429	1
Trauma Pad, 5" x 9"		•	32LA69	1
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.		•	480F99	1

Kit Component Description	Components Included with First Aid Kit Nos. 45NJ76	40JH19	488G89	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape					
Bandages, 1" x 3", Fabric	•	•	•	3WHP9	25
Bandages, 1½" x 1½", Plastic		•	•	3WHP8	10
Bandages, ¾" x 3", Plastic		•	•	3WHR1	25
Bandages, Fingertip, Fabric		•	•	3WHR2	10
Burn Dressing, 4" x 4"	•	•	•	45JE50	1
Gauze Pads, 2" x 2"		•	•	3WHU1	10
Sterile Eye Pads, 3" x 3"	•	•	•	3WHU2	10
Trauma Pad, 5" x 9"	•			3WHU3	1
Trauma Pad, 5" x 9"	•	•	•	48ZE52	1
Triangular Bandages, 40" x 40" x 56"		•	•	3WHT4	1
Triangular Bandage, CPR Mask	•			48UE33	1
First Aid Tape, ½" x 5 yd., Roll Bandage, 2" x 4 yd.		•	•	45JE49	1
Pain Relief and Antiseptics					
Alcohol Cleansing Pads		•	•	3WHR6	20
Antiseptic Towelettes	•	•	•	3WHR7	10
Aspirin Tablets, 325mg, 10 Packets of 2			•	6XNC3	20
Extra-Strength Nonaspirin Tablets, 500mg, 10 Packets of 2		•	•	6XNC4	20
Ibuprofen Tablets, 200mg, 10 Packets of 2			•	6XNC5	20
Cold Pack, 4" x 5"	•	•	•	45JE51	1
Eye Wash, 1 oz., 2 Eyepads, First Aid Tape, ½" x 5 yd.	•	•	•	45JE52	1
First Aid/Burn Cream Packets, 0.9g	•	•	•	3WHT8	10
Hand Sanitizer Gel Packets, 0.9g	•	•	•	41CR54	1
Single Antibiotic Ointment, 0.9g	•	•	•	3WHT9	10
Additional Items					
CPR Face Shield Kit w/Vinyl Gloves		•	•	3WHT6	1
First Aid Guide	•	•		11A320	1
Bandage Scissors, Angled, 3½"L		•		39P041	1
Tweezers, Stainless Steel	•	•		39P044	1
Nitrile Exam Gloves, 2 Pr.	•	•	•	3WHT7	4
First Aid Guide			•	40JJ14	1
Tweezers			•	65DG27	1
Scissors			•	65DG26	1

★ GA GRAINGER APPROVED

No. 488G84



Class B First Aid Kits

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
I, II	150	447	Metal	4⅝"	10"	15"	**488G84**
I, II	100	676	Metal	16⅝2"	5⅝16"	15"	**488G85**
I, II	200	1436	Metal	22¼"	5½"	5⅛"	**45NJ74**
I, II	150	909	Metal	23"	5½"	16½"	**65DF96**
I, II	150	654	Metal	21"	5"	16"	**65DF97**
I, II	200	937	Metal	23"	5½"	16½"	**65DF98**
I, II	200	697	Metal	21"	5"	16"	**65DF99**
I, II	200	1643	Metal	25¼"	5½"	16¾"	**65DG01**
I, II	200	728	Metal	25¼"	5½"	16¾"	**65DG02**
I, II	200	1671	Metal	26⅜"	5½"	17"	**65DG03**
I, II	200	770	Metal	25¼"	5½"	16½"	**65DG04**
III	50	199	Plastic	2¾"	9⅜16"	9⅜16"	**488G82**

Kit Component Description	Components Included with First Aid Kit Nos. 488G84	488G85	45NJ74	488G82	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape						
Bandages, ¾" x 3", Plastic	•				36LF35	100
Bandages, 1" x 3", Plastic			•		36LF30 *	100
Bandages, 1" x 3", Adhesive Plastic, 40 ct.				•	65DG12	1
Bandages, 1" x 3", Fabric	•	•	•		6TEW6	100
Bandages, 2" x 4", Plastic			•		36LF41 *	25
Bandages, 2" x 4", Fabric	•	•			39N871	6
Bandages, 1⅞" x 2", Fingertip, Heavy Woven Fabric	•				39N887	10
Bandages, Assorted, Fabric		•			41CP96	1
Elastic Bandage, 4" x 5 yd.		•	•		39P003	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	•	39N977 *	1
Compress, 5" x 9"		•	•		39N981 *	1
Gauze Pads, 2" x 2"			•		39N954	6
Conforming Gauze Roll, 2"				•	3WHR9 *	1
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.	•	•			480F99	1
Knuckle, 1½" x 3", Fabric	•				39N883 *	8
Sterile Gauze Pads, 3" x 3"	•				39N958 *	4
Sterile Gauze Pads, 3" x 3"		•		•	39N959 *	10
Sterile Gauze Pads, 4" x 4"		•			39N963 *	10
Gauze Wrap, 4"			•		2TUW1 *	12
Gauze Rolls, 2" x 6", 10 ct.			•		40JH61	1
Sterile Eye Pads (4), 2¾" x 1¾", Adhesive Strips (4 Sets)	•	•		•	31DJ93 *	1
Non-Stick Pads, 3" x 4"			•		40JH83	50
Trauma Pad, 5" x 9"	•	•	•	•	32LA69	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag		•			39P037	100
First Aid Tape, ½" x 5 yd.	•	•		•	36LF70 *	1
Pain Relief and Antiseptics						
Alcohol Wipes, 2¼" x 1⅛"		•	•		36LF43 *	100
BZK Antiseptic Towelettes	•				39N904 *	10
BZK Wipe, 4¾" x 7¾"				•	36LF44	50
PVP Wipes, 1¼" x 2½"			•		41CR22 *	1
Hand Sanitizer Packets, 0.9g, 10 ct.	•	•		•	48ZV46	1
Hand Sanitizer, 4 oz.			•		41CR68	1
Antiseptic Spray, 4 oz.	•	•	•		39N925	1
Burn Spray, 4 oz.		•	•		39N921	1
Burn Cream, 0.9g	•	•		•	41CP92	1
Personal Eye Wash Bottle, 1 oz.				•	40JH48	12
Buffered Eye Wash, 4 oz.		•	•		36N055	1
Eye Wash, 1 oz. with 2 Eye Pads and Strips			•		49H429 *	1
Aspirin, 325mg, 25 Packets of 2	•				480G03	1
Nonaspirin Tablets, 500mg, 25 Packets of 2	•				39N841	25
Nonaspirin Tablets, 500mg, 50 Packets of 2		•			39N842	50
Ibuprofen, 200mg, 125 Packs of 2			•		3NNW7	250
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2		•			39N853	50
Triple Antibiotic Ointment, 0.5g	•	•	•	•	3UCH8 *	25
Burn Dressing, 4" x 4"				•	45JE50	1
Burn Dressing, 4" x 4"	•	•			39N950 *	1
Water Jel® Burn Dressing, 4" x 16"		•		•	39N987	1
Instant Cold Pack			•		36LF66 *	1
Cold Pack, 4" x 5"	•				39P018 *	1
Cold Pack, 4" x 5"				•	45JE51	1
Additional Items						
Ammonia Inhalant Capsules			•		39N907	10
CPR Faceshield with One-Way Valve	•	•	•	•	39P013	1
First Aid Guide	•	•		•	40JJ14	1
First Aid Guide			•		11A320	1
Disposable Gloves, Straight Fingers		•			480G04	1
Exam Gloves, Nitrile, 2 Pr.	•		•	•	39P031	2
Rolled Splint, 4" x 24"				•	65DG05	1
Bandage Scissors, Angled, 3½"L	•	•	•	•	39P041	1
Tourniquet, ⅝" x 4", Rubber	•	•	•	•	39P055	1
Forceps, Plastic	•	•	•		39P045	1

**** Meet ANSI Z308.1 Standard***



No. 488G62

GRAINGER APPROVED

Class B First Aid Kits

Kits come equipped with supplies to deal with injuries encountered in complex or high-risk environments.

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
Not ANSI Compliant	75	330	Metal	5⅛"	16"	11¼"	**488G61**
I, II	100	516	Metal	5⅛"	16"	11¼"	**488G62**
I, II	150	593	Metal	6"	21½"	17"	**488G63**

Kit Component Description	Components Included with First Aid Kit Nos. 488G61	488G62	488G63	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape					
Bandages, ¾" x 3", Adhesive Plastic			•	**39N861**	16
Bandages, 1" x 3", Adhesive Plastic, 40 ct.	•			**65DG12**	1
Bandages, 1" x 3", Adhesive Plastic		•		**39N859**	60
Bandages, 1" x 3", Plastic		•	•	**36LF30**	100
Bandages, Knuckle, 3¼" x 3½", Fabric	•	•	•	**36LF31**	40
Bandages, Fingertip, 1¾" x 2", Fabric	•	•	•	**36LF32**	40
Bandage, Self-Adhearing, 3" x 5 yd.			•	**39P007**	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	**39N977**	1
Trauma Pad, 5" x 9"	•	•	•	**32LA69**	1
Sterile Eye Pads (4), 2¾" x 1¾", Adhesive Strips (4 Sets)		•	•	**31DJ93**	1
Sterile Gauze Pads, 3" x 3"	•			**39N958**	4
Sterile Gauze Pads, 3" x 3"	•	•		**39N959**	10
Sterile Gauze Pads, 3" x 3"		•	•	**39N966**	10
Gauze Pads, 3" x 3"			•	**36LF48**	20
Sterile Gauze Roll, 4" x 4 yd.			•	**39N985**	1
Gauze Roll, 4" x 4 yd.	•	•		**480G02**	1
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.	•	•	•	**480F99**	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag	•	•	•	**39P037**	100
Triple Cut First Aid Tape, 2" x 5 yd.			•	**65DG45**	1
First Aid Tape, ½" x 5 yd.	•	•		**36LF70**	1
Pain Relief and Antiseptics					
BZK Wipe, 4¾" x 7¾"		•	•	**36LF44**	50
Hand Sanitizer Packets, 0.9g, 10 ct.	•	•	•	**48ZV46**	1
Antiseptic Spray, 4 oz.	•	•	•	**39N925**	1
Burn Gel Packets	•		•	**36LF38**	25
Burn Spray, 4 oz.	•	•	•	**39N921**	1
Buffered Eye Wash, 4 oz.	•	•	•	**36N055**	1
Aspirin, 325mg, 25 Packets of 2		•	•	**480G03**	1
Nonaspirin Tablets, 500mg, 25 Packets of 2	•		•	**39N841**	25
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2	•	•	•	**39N853**	50
Triple Antibiotic Ointment, 0.5g	•	•	•	**3UCH8**	25
Burn Dressing, 4" x 4"	•	•	•	**39N950**	1
Cold Pack, 4" x 5"	•			**39P018**	1
Cold Pack, 4" x 5"			•	**45JE51**	1
Additional Items					
CPR Faceshield			•	**40JJ29**	1
CPR Faceshield with One-Way Valve	•	•		**39P013**	1
First Aid Guide	•		•	**40JJ14**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	**39P031**	2
Rolled Splint, 4" x 24"	•	•	•	**65DG05**	1
EMT Scissors, Straight, 4½"			•	**40JJ40**	1
Bandage Scissors, Angled, 3½"L	•	•		**39P041**	1
Tourniquet, ⅝" x 4", Rubber	•	•	•	**39P055**	1
Forceps, Plastic	•	•	•	**39P045**	1



No. 39N787



No. 39N794

GRAINGER APPROVED

First Aid Kits

Provide necessary first aid supplies to treat many injuries that may occur on the job.

Description	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
General Use	10	142	Plastic	5"	3"	8"	**39N805**
	25	185	Plastic	7⅛"	3⅛"	10⅛"	**39N806**
Emergency Use	10	136	Plastic	10"	3"	10"	**39N787**
General Use	25	220	Metal	2⅝"	7⅛"	10"	**39N794**

Kit Component Description	Components Included with First Aid Kit Nos. 39N787	39N794	39N805	39N806	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes						
Bandages, 2" x 4", Fabric			•		**39N871**	6
Bandages, 1⅜" x 2", Fingertip, Heavy Woven Fabric	•	•	•	•	**39N887**	10
Knuckle, 1½" x 3", Fabric	•	•		•	**39N883**	8
Gauze Pads, 2" x 2"	•		•	•	**39N954**	6
Sterile Gauze Pads, 3" x 3"	•	•	•		**39N958**	4
Sterile Gauze Pads, 4" x 4"		•	•		**39N962**	2
Gauze Roll, 2" x 4 yd., Sterile	•	•	•	•	**39N983**	1
Sterile Gauze Roll, 4" x 4 yd.	•		•		**39N985**	1
Triangular Bandage, 40" x 40" x 56"	•	•			**39N977**	1
First Aid Tape, ½" x 5 yd.		•			**36LF70**	1
Pain Relief and Antiseptics						
Aspirin, 325mg		•	•	•	**3NNV1**	100
Antacid, Calcium Carbonate, 50 Packets of 2	•				**8AY50**	100
Nonaspirin Tablets, 500mg, 50 Packets of 2	•				**39N842**	50
Burn Gel Packets, ⅛ oz.			•		**39N918**	6
BZK Antiseptic Towelettes	•	•	•	•	**39N904**	10
Buffered Eyewash, 1 oz.	•	•			**36N054**	1
Buffered Eye Wash, 4 oz.				•	**36N055**	1
First Aid/Burn Cream Packets, 0.9g, 12ct	•	•			**39N910**	12
Cold Pack, 4" x 5"		•	•	•	**39P018**	1
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	•	•	**39N914**	12
Additional Items						
Ammonia Inhalant Capsules		•			**39N907**	10
First Aid Pocket Guide	•	•	•	•	**5AZ72**	1
Forceps, Plastic	•	•	•	•	**39P045**	1
Exam Gloves, Nitrile, 2 Pr.		•	•	•	**39P031**	2
Bandage Scissors, Angled, 3½"L	•	•	•	•	**39P041**	1
Tongue Depressors, 6"L	•				**39P039**	500



REGISTER NOW! ENJOY THESE FEATURES & MORE!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

Sign in or register on Grainger.com® today!

Bulk and Unitized First Aid Kits

GA GRAINGER APPROVED

Kits contain first aid treatment for common injuries.

Bulk Kits—Nonunitized and contain larger quantities of supplies. Metal Cabinet Nos. 39N795, 39N789, and 39N821 include shelves.

Unitized Kits—Kits include packs that hold individually sealed dose units and are color-coded by application; blue for antiseptics, yellow for bandages, red for burn treatment, orange for personal protective equipment, and green for miscellaneous.



No. 39N821



No. 39N817



People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
Bulk Kits						
10	71	Plastic	5⅞"	3⅝"	8¾"	**39N814**
25	140	Plastic	7"	3"	10"	**39N797**
50	214	Plastic	10"	3"	10"	**39N815**
75	397	Plastic	9½"	2¾"	13½"	**39N816**
100	487	Metal	5⅛"	16"	11⅞"	**39N795**
100	970	Metal	16½"	5½"	13¾"	**39N789**
150	1172	Metal	6"	21½"	16⅜"	**39N821**
Unitized Kits						
10	57	Plastic	5"	3"	8"	**39N831**
20	102	Plastic	7"	3"	10"	**39N817**
40	211	Plastic	9½"	2¾"	13½"	**39N818**

Kit Component Description	Components Included with First Aid Kit Nos. 39N814	39N797	39N815	39N816	39N795	39N789	39N821	39N831	39N817	39N818	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape												
Bandages, 1" x 3", Plastic	•	•	•	•	•	•	•	•	•	•	**36LF30**	100
Bandages, 1" x 3", Fabric					•						**6TEW6**	100
Bandages, ¾" x 3", Fabric						•	•				**41CP80**	100
Knuckle, 1½" x 3", Fabric		•	•	•				•	•	•	**39N883**	8
Combine Pads, 8" x 10", Sterile	•	•	•	•	•			•			**39N971**	1
Gauze Roll, 2" x 4 yd., Sterile	•	•	•	•		•	•			•	**39N983**	1
Pain Relief and Antiseptics												
Aspirin, 325mg, 2/pouch		•									**39N837**	50
Nonaspirin Tablets, 500mg, 50 Packets of 2	•		•	•		•	•	•			**39N842**	50
Ammonia Inhalant Capsules		•			•						**39N907**	10
Burn Gel Packets, ⅛ oz.								•			**39N918**	6
Buffered Eyewash, 1 oz.		•	•	•					•	•	**36N054**	1
Buffered Eye Wash, 4 oz.					•		•				**36N055**	1
Hydrocortisone Cream, 0.9g					•						**39N941**	12
Instant Cold Pack	•	•	•	•	•	•	•	•	•	•	**39P019**	1
PVP Iodine Wipes, 0.9g					•	•	•		•	•	**39N899**	10
Sting Relief Wipes	•	•	•	•	•			•	•	•	**39N932**	10
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	•	•		•	•	•	•	•	**39N914**	12
Additional Items												
First Aid Pocket Guide	•	•	•	•	•	•	•	•	•	•	**5AZ72**	1
First Aid/Burn Cream Packets, 0.9g, 12ct	•	•	•	•	•				•	•	**39N910**	12
Forceps, Plastic	•	•	•	•	•	•	•	•			**39P045**	1
Thermal Blanket, Aluminized					•						**39P025**	1

FIRST AID ONLY

General Workplace First Aid Cabinets

Customizable SmartCompliance™ cabinets are designed to simplify OSHA compliance and restocking. Standardized supply boxes slide easily into place and keep cabinets organized so needed items can quickly be found.



No. 40JH23



No. 40JH18

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
25	112	Metal	12"	3⅛"	9½"	**40JH23**
50	206	Plastic	14"	4⅛"	13"	**40JH18**
50	245	Plastic	4⅜"	13¾"	13"	**40JH26**

Kit Component Description	Components Included with First Aid Kit Nos. 40JH23	40JH18	3WHP6	40JH26	6XNA8	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes							
Bandages, 1" x 3", Fabric	•	•	•	•	•	**3WHP9**	25
Bandages, ¾" x 3", Plastic	•	•	•	•	•	**3WHR1**	25
Bandages, Fingertip, Fabric		•	•	•		**3WHR2**	10
Bandages, Knuckle, Fabric		•	•	•		**3WHR3**	10
Bandages, 1½" x 1½", Plastic		•	•	•		**3WHP8**	10
Elastic Wrap Bandage, 2" x 5 yd.		•	•			**3WHR4**	1
Knuckle & Fingertip Bandages, Fabric	•					**3WHR5**	10
Metal-Detectable Bandages, 1" x 3", Fabric					•	**6XNA9**	25
Metal-Detectable Knuckle Bandages, Fabric			•		•	**6XNC0**	20
Metal-Detectable Fingertip Bandages, Fabric					•	**6XNC1**	20
Moleskin Squares, 2" x 2"		•	•			**3WHT5**	10
Butterfly Closures, ⅜" x 1¾"		•	•	•		**3WHT2**	10
Triangular Bandages, 40" x 40" x 56"	•	•	•	•	•	**3WHT4**	1
Gauze Pads, 2" x 2"		•	•	•		**3WHU1**	10
Sterile Eye Pads, 3" x 3"	•	•	•	•	•	**3WHU2**	10
Conforming Gauze Roll, 2"	•	•	•	•	•	**3WHR9**	1
Conforming Gauze Roll, 3"	•	•	•	•		**3WHT1**	1

Kit Component Description	Components Included with First Aid Kit Nos. 40JH23	40JH18	3WHP6	40JH26	6XNA8	Order Refill Item No.	Pkg. Qty.
Trauma Pad, 5" x 9"		•	•	•	•	**3WHU3**	1
First Aid Tape Roll, ½" x 10 yd.	•	•	•	•		**3WHT3**	1
Pain Relief and Antiseptics							
Ibuprofen Tablets, 200mg, 10 Packets of 2				•		**6XNC5**	20
Alcohol Cleansing Pads		•	•	•		**3WHR6**	20
Antiseptic Towelettes	•	•	•	•	•	**3WHR7**	10
Castile Soap Towelettes		•	•			**3WHR8**	10
Burn Relief Pack, 3.5g					•	**36M336**	6
First Aid/Burn Cream Packets, 0.9g	•	•	•	•		**3WHT8**	10
Single Antibiotic Ointment, 0.9g	•	•	•	•	•	**3WHT9**	10
Additional Items							
CPR Face Shield Kit w/Vinyl Gloves		•	•	•		**3WHT6**	1
Nitrile Exam Gloves, 2 Pr.	•	•	•	•	•	**3WHT7**	2 Pr.
Tweezers, Stainless Steel	•	•	•	•	•	**39P044**	1



No. 39N784



No. 39N827

GA GRAINGER APPROVED

Construction Bulk and Unitized First Aid Kits

Kits are designed for contractors' most common injuries on the job.

Bulk—Nonunitized kit contains larger quantities of supplies.

Unitized—Kits include cartons that hold individually sealed dose units and are color-coded by application; blue for antiseptics, yellow for bandages, red for burn treatment, orange for personal protective equipment, and green for miscellaneous.

People Served Per Kit	No. of Components	H	W	D	Item No.
Bulk Kit					
50	204	10"	3"	10"	**39N784**
Unitized Kits					
10	74	5⅜"	2⅞"	7⅞"	**39N827**
20	110	7"	3"	10"	**39N826**
30	163	10"	3"	10"	**39N825**

Kit Component Description	Components Included with First Aid Kit Nos. 39N784	39N827	39N826	39N825	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes						
1" x 3", Plastic	•	•	•	•	**39N858**	16
Bandages, 2" x 4", Fabric				•	**39N871**	6
Knuckle, 1½" x 3", Fabric				•	**39N883**	8
Bandage Compress, 2" x 4", Sterile				•	**39N978**	4
Bandage Compress, 4" x 8", Sterile		•	•	•	**39N980**	1
Sterile Gauze Pads, 3" x 3"	•		•	•	**39N958**	4
Sterile Gauze Roll, 4" x 4 yd.	•				**39N985**	1
Combine Pads, 8" x 10", Sterile	•				**39N971**	1
Hema-Seal Trauma Dressing, Sterile	•				**39N982**	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	•	**39N977**	1
Adhesive Tape, ½" x 5 yd.	•	•	•	•	**39N993**	2
Pain Relief and Antiseptics						
Nonaspirin Tablets, 500mg, 50 Packets of 2	•				**39N842**	50
Buffered Eyewash, 1 oz.	•		•	•	**36N054**	1
Cold Pack, 4" x 5"	•	•	•	•	**39P018**	1
Alcohol Wipes		•	•	•	**39N897**	10
BZK Antiseptic Towelettes	•				**39N904**	10
PVP Iodine Wipes, 0.9g		•	•	•	**39N899**	10
Sting Relief Wipes	•			•	**39N932**	10
First Aid/Burn Cream Packets, 0.9g, 12ct	•	•	•	•	**39N910**	12
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•		•		**39N914**	12
Additional Items						
Ammonia Inhalant Capsules			•	•	**39N907**	10
First Aid Pocket Guide	•	•	•		**5AZ72**	1
Forceps, Plastic	•	•	•		**39P045**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	•	**39P031**	2
Bandage Scissors, Angled, 3½"L	•				**39P041**	1



No. 463L94

GA GRAINGER APPROVED

Industrial Bulk First Aid Kits

Provide the proper mix of items to keep you safe, productive, and on-the-job.

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
75	563	Metal	5⅛"	16"	11 9/16"	**463L94**
150	563	Metal	5⅛"	16"	11 9/16"	**463M29**
100	404	Metal	5⅛"	16"	11¼"	**480F98**

Kit Component Description	Components Included with First Aid Kit Nos. 463L94	463M29	480F98	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape					
Bandages, 1 x 3", Fabric, 50 ct.	•			**41CP82**	1
Bandages, 1" x 3", Plastic	•	•	•	**36LF30**	100
Bandages, 1" x 3", Fabric		•		**488G91**	100
Bandages, 2" x 4", Plastic			•	**36LF41**	25
Bandages, Fingertip, 1¾" x 2", Fabric	•	•	•	**36LF32**	40
Bandages, Knuckle, 3¼" x 3½", Fabric	•		•	**36LF31**	40
Triangular Bandage, 40" x 40" x 56"	•			**39N977**	1
Triangular Bandage, 40" x 40" x 56"		•	•	**39N975**	1
Elastic Bandage, 4" x 5 yd.			•	**39P003**	1
Sterile Eye Pads, 3" x 3"			•	**3WHU2**	10
Sterile Eye Pads (4), 2¾" x 1¾", Adhesive Strips (4 Sets)		•	•	**31DJ93**	1
Sterile Gauze Pads, 3" x 3"		•		**39N966**	10
Sterile Gauze Pads, 4" x 4"			•	**39N962**	2
Gauze Pads, 1⅞" x 3"	•			**65DG41**	10
Gauze Pads, 2" x 2"			•	**3WHU1**	10
Gauze Pads, 3" x 3"	•	•		**36LF48**	20
Gauze Rolls, 2" x 6", 10 ct.			•	**40JH61**	1
Gauze Roll, 4" x 4 yd.		•		**480G02**	1
Sterile Multitrauma Dressing, 12" x 30"	•		•	**40JJ12**	50
First Aid Tape, ½" x 5 yd.	•			**36LF70**	1
Triple Cut First Aid Tape, 2" x 5 yd.			•	**65DG45**	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag	•		•	**39P037**	100
Cotton Tipped, Wood Handle Applicators, 3"L, Vial		•		**39P038**	100
Sterile Nonstick Pads, Adhesive Edges, 3" x 4"	•			**36LF49**	50
Pain Relief and Antiseptics					
BZK Wipe, 4¾" x 7¼"	•			**36LF44**	50
BZK Antiseptic Towelettes		•		**39N904**	10
Alcohol Pads, 50 ct.		•		**463L70**	1
Alcohol Wipes			•	**39N897**	10
Antiseptic Spray, 4 oz.		•	•	**39N925**	1
Burn Cream, 0.9g			•	**41CP92**	1
Burn Gel Packets, ⅛ oz.	•			**39N918**	6
Buffered Eye Wash, 4 oz.	•		•	**36N055**	1
SmartCompliance Refill Eye Wash, 4-oz Bottle		•		**65DG39**	1
Nonaspirin Tablets, 500mg, 50 Packets of 2			•	**39N842**	50
Nonaspirin Tablets, 500mg, 125 Packets of 2		•		**39N843**	125
Ibuprofen Tablets, 200mg, 50 Packets of 2	•			**39N839**	50
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2	•			**39N853**	50
Triple Antibiotic Ointment, 0.5g	•	•	•	**3UCH8**	25
Cold Pack, 4" x 5"	•	•		**39P018**	1
Cold Pack, 4" x 5"			•	**45JE51**	1
Additional Items					
First Aid Guide	•		•	**40JJ14**	1
EMT Scissors, Straight, 4½"	•			**40JJ40**	1
Bandage Scissors, Angled, 3½"L		•	•	**39P041**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	**39P031**	2
Forceps, Plastic	•	•	•	**39P045**	1
Blood Clotting Spray, 3 oz. Can		•		**36LF63**	1
Ammonia Inhalant Capsules		•		**39N907**	10



No. 39N804



No. 39N788

GA GRAINGER APPROVED

Vehicle First Aid Kits

Designed for use in vehicles to treat minor injuries.

People Served Per Kit	No. of Components	Case Material	Item No.
5	28	Plastic	**39N804**
10	76	Metal	**39N788**

Kit Component Description	Components Included with First Aid Kit Nos. 39N804	39N788	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes				
1" x 3", Plastic		•	**39N858**	16
Bandages, ¾" x 3", Adhesive Plastic	•		**39N861**	16
Bandages, ⅜" x 1½" Junior	•		**39N863**	40
Bandages, Assorted, Fabric		•	**41CP96**	1
Butterfly, Large, ½" x 2¾", Plastic	•		**39N865**	16
Combine Pads, 8" x 10", Sterile		•	**39N971**	1
Sterile Gauze Pads, 3" x 3"		•	**39N958**	4
Gauze Roll, 2" x 4 yd., Sterile		•	**39N983**	1
Adhesive Tape, ½" x 5 yd.		•	**39N993**	2
Triangular Bandage, 40" x 40" x 56"		•	**39N977**	1
Pain Relief and Antiseptics				
Aspirin, 325mg, 2/pouch	•		**39N837**	50
Ibuprofen, 200mg, 50 Packs of 2	•		**3NNW6**	100
Nonaspirin Tablets, 500mg, 50 Packets of 2	•	•	**39N842**	50
Cold Pack, 4" x 5"		•	**39P018**	1
Alcohol Wipes	•		**39N897**	10
BZK Antiseptic Towelettes	•	•	**39N904**	10
First Aid/Burn Cream Packets, 0.9g, 12ct		•	**39N910**	12
Sting Relief Wipes		•	**39N932**	10
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	**39N914**	12
Additional Items				
First Aid Pocket Guide	•		**5AZ72**	1
Exam Gloves, Nitrile, 2 Pr.		•	**39P031**	2
Bandage Scissors, Angled, 3½"L		•	**39P041**	1
Thermal Blanket, Aluminized		•	**39P025**	1

People Served	Includes	Item No.
Snake Bite Kit, Unitized with Plastic Case		
1	Venom Extractor Pump, Tourniquet, Scalpel Blade, (2) Ammonia Inhalants, (2) Adhesive Bandages, (2) Antiseptic Wipes	**39N820**
Snake Bite Kit, Utitized with Nylon Case		
1	Venom Extractor Pump, Tourniquet, Scalpel Blade, (2) Ammonia Inhalants, (2) Adhesive Bandages, (2) Antiseptic Wipes	**31AR10**
Splinter and Tick Removal Kit		
1	(1) Plastic Case, Steel Forceps, Magnifying Glass, Tick Identification Card, (2) Resealable Plastic Bags, (5) Chloride Antiseptic Towelettes, (5) 1" x 3" Adhesive Bandages	**49H370**
Bite and Sting Pads		
50	(50) Sting Relief Wipes	**41CR13**

GA GRAINGER APPROVED

Snake and Insect Bite Kits

Kits are equipped to provide first aid treatment. No. 31AR10 can clip on to a belt, pack, or other gear for ready access. Pocket-size No. 49H370 is unitized to fit into a first aid kit or cabinet.

Individually wrapped Bite and Sting Pads are soaked with a benzocaine/isopropyl alcohol solution to offer temporary relief from the pain and itching of bites, scrapes, stings, and minor burns.



No. 39N820

GA GRAINGER APPROVED

Compact Soft-Sided First Aid Kits

Portable first aid kits come packed in a durable nylon case.



No. 39N823

People Served	Includes	Item No.
25	(16) 1"x3" Adhesive Plastic Bandages, (1) First Aid Guide, (1) 3.5" Plastic Forceps, (4) Heavy Woven Bandages, (5) Heavy Woven Knuckle Bandages, (1) Scissors, (1) 4 oz. Eyewash, (1) Sterile Eye Cup, (4) Sterile Eye Pads, (4) Adhesive Strips, (1) 4" Elastic Bandage, (1) Cold Pack 4"x5" (1) Triangular Bandage, (4) Nitrile Exam Gloves, (30) Alcohol Wipes, (6) First Aid/Burn Cream, (6) Triple Antibiotic Ointment, (1) 5"x9" Combine Dressing, (1) ½" x 5 yd. Adhesive Strips, (5) 4"x4" Sterile Gauze Pads, (1) Conforming Gauze Roll	**39N798**
50	Zip Up Closure, Scissors Kit Style, 3½" Plastic Forceps, First Aid Guide, (2) Nitrile Exam Gloves, 5" x 9" Combine Dressing Bulk, (2) 2 x 5 yd. Tapes, (3) Mole Skin, Pouch, (50) Junior Adhesive Strips, (75) 4" x 3 " Adhesive Strips, (3) Butterfly Closures, (20) Adhesive Strips, (30) 1" x 3" Plastic Adhesive Strips, (2) Flexible Fabric Adhesive Strips, (10) 1"x 3" Adhesive Strips, (4) Woven Knuckle Bandages, (4) Woven Fingertip Bandages, (6) 0.05 oz. Triple Antibiotic Ointment, (15) Towelettes, (14) Alcohol Wipes, 0.125 oz. Burn Gel Foil Packet, (2) Burn Creams, (3) Sting Wipes, (6) Aspirin Tablets, (6) Non Aspirin Tablets, (6) Ibuprofen Tablets, 4" x 5" Cold Pack, Blanket, Disposable Thermometer, (10) Cotton Tipped Applicators, (2) Finger Splints, (6) 2" x 2" Gauze Pads, (4) 3" x 3" Gauze Pads, (2) 4" x 4" Gauze Pads, 2" x 5" Gauze Stretch, Sterile Eye Pad	**39N823**

FIRST AID ONLY

First Responder Kit

Contains essential first aid supplies needed to respond to medical emergencies.



No. of Components	Includes	Item No.
113	(3) 1" x 3" Fabric Bandages, 16/Bx, (6) 3" x 3" Gauze Dressing Pads, (3) 2-Pks, (20) 4" x 4" Gauze Dressing Pads, (10) 2-Pks, (3) 5" x 9" Trauma Pads, (2) 8" x 10" Trauma Pads, (1) 12" x 30" Multi-Trauma Dressing, (2) Emergency Pressure Dressings, (2) 4" Conforming Gauze Roll Bandages, (1) 6" Conforming Gauze Roll Bandage, (4) 36" Triangular Sling/Bandage, with 2 Safety Pins, (24) Alcohol Cleansing Pads, (12) Povidone-Iodine Infection Control Wipes, (2) 3" x 5 yd. Latex Free Elastic Bandages, (1) 1" x 10 yd. Waterproof Tape, Plastic Spool, (1) 3" x 10 yd. Porous Cloth Athletic Tape Roll, (1) 4" x 5" Instant Cold Compress, (2) 6" x 9" Instant Cold Compresses, (1) Burn Relief, 4 oz. Plastic Squeeze Bottle, (4) Sterile Eye Pads, (1) Eye Wash, 4 oz., (1) Eye Wash, 8 oz., (1) 24" x 24" Biohazard Bag, 10 Gallon Capacity, (4) 10"X12" Ziplock Bags, (2) Cpr One-Way Valve Face Shields, Latex Free, (1) 52" x 84" Emergency Blanket, (8) Exam Quality Vinyl Gloves, 4 Pairs, (1) 7¼" Utility Shears, (1) 3½" Deluxe Tweezers, Stainless Steel, (1) First Aid Guide	**5DXX8**

MedSource
USA • Europe • UAE

Emergency Blankets

Soft, warm, durable wool blankets are stitched on all four sides. Dark gray color.

Description	Pkg. Qty.	Item No.
84" x 54", Woolen Blend	12	**30LR80**
66" x 90", Wool	10	**38G255**


No. 30LR80


No. 8HAL2


No. 31XR13


No. 9A801

Trauma First Aid Response and Emergency Survival Kits

LifeSecure Emergency Solutions

Portable trauma kit No. 8HAL2 helps provide a rapid response to disasters. Kit includes everything needed to treat traumatic injuries and to transport a patient. Emergency Survival Kits, Nos. 31XR13 and 9A801, include key survival supplies for all the basic needs.

No. of Components	Includes	Item No.
Trauma Response Kit		
260	Heavy-Duty Weather-Resistant Bag, Seat and Gear Platform, Flashing LED Wheels, 8-ft. Extendable Flag, 5 Quick-Response First Aid Modules with Extensive First Aid Supplies, Flexible Evacuation Stretcher	**8HAL2**
Group Emergency Survival Kit		
145	(1) LED Safety Signal, (1) Pair of Leather Palmed Work Gloves, (1) Safety Goggles, (1) Pry Bar, (30) Dust Masks, (1) First Aid Kit, (3) Emergency Blankets, (30) Emergency Drinking Water Pouches (4 oz. Each), (5) 2,400 Food Bars (60 Portions), (1) Tarp (1) Cord, (1) Whistle with Lanyard, (1) AM/FM Radio with Extra Batteries, (1) Flashlight with Extra Batteries, (2) 12 hr. Light Sticks, (1) Carry-Flat Portable Toilet, (6) Toilet Bags, (6) Deodorizer Packets, (2) Toilet Paper Rolls, (4) Pairs of Vinyl Gloves, (30) Sanitary Towelettes, (2) Hand Sanitizer (4 oz. Each), (1) Emergency Instruction Sheet, (1) Clipboard, (1) Writing Table, (2) Pens, (10) Tamper-Evident Breakaway Closure Ties	**31XR13**
Personal Emergency Survival Kit		
60	(1) Face Mask Respirator, (1) Thermal Blanket, (1) Poncho, (1) Pair of Vinyl Gloves, (2) 20 Hr. Body Warmers, (1) Metal Whistle with Lanyard, (1) AM/FM Radio with Replacement Batteries, (1) Flashlight with Batteries, (2) 12 Hr. Light Sticks, (10) Emergency Water Pouches (4 oz. Each), (1) 2,400 Calorie food bar, (1) 30-Piece First Aid Kit, (6) Moist towelettes, (3) Biohazard waste bags, (1) Pair vinyl gloves	**9A801**

STEINER

Fire/First Aid Blanket

- Meets Federal Standard Title 16 CFR Part 1610 for flame-retardant use



Durable wool blanket can be used to smother flames, drape over injured victims, and cover stretchers and other rescue carriers. Fully serged hems. The blanket stores neatly in the highly visible fluorescent red, vinyl-coated nylon tote pouch. Tote is flame-retardant, weather-resistant, plus resists grease and most acids and chemicals.

Description	Item No.
62"W x 84"L	**4T178**



No. 39N783



No. 39P239

GRAINGER APPROVED

Bloodborne Pathogen Kits

Protect user during biohazard cleanup. No. 39N783 is a unitized kit.

Includes	Item No.
Unitized BBP Clean Up Kit	
(1) 11"x16" Unmarked Bag, (1) Scoop/Spatula, (4) Bzk Antiseptic Towelettes, (1) Disinfectant Towelette, (10) Paper Towels, (1) Spill Clean Up Powder, (4) Nitrile Exam Gloves, (2) 24"x24" Biohazard Bags, (1) Isolation Gown, (1) Eye & Face Shield	**39N783**
Disposable BBP Clean Up Kits	
(1) Aromatic Absorbent Bead Pouch, (1) Sanizide Plus(r) Germicidal Wipe, (1) P.A.W.S.™ Antimicrobial Wipe, (1 pr.) Vinyl Gloves, (1) Plastic Shovel, (1) Absorbent Towel, (1) Red Plastic Bag with Twist Tie, and (1) White Plastic Bag with Twist Tie	**39P248**
(1)Absorbent Powder; 2 oz., (1) Biohazard Bag with Twist Tie, (2) BZK Antiseptic Towelettes, (1) Disinfectant Towelette, (1 pr.) Nitrile Exam Gloves, (10) Paper Towels, and (1) Scoop with Spatula	**39N782**
Disposable BBP Clean Up Apparel Kits	
(2) BZK Antiseptic Towelettes, (1) Biohazard Bag, (1) CPR Faceshield with One Way Valve, (1) Eye and Faceshield, (1 pr.) Nitrile Exam Gloves, (1) Isolation Gown; Universal Size	**39N829**
(2) P.A.W.S.™ Antimicrobial Wipes, (2 pr.) Vinyl Gloves with Zip Lock Bag, (1) Biohazard Bag with Twist Tie, (1) Facemask with Faceshield and Ear-Loops, (1) Impervious Gown; Universal Size, (1) Pick-Up Scoop with Scraper, (1) Red Z™ Fluid Control Solidifier; 3oz., (1) 3-Fold Towel, (1) Sanizide Plus(r) Germicidal Wipe and (1) Graphics Card	**39P239**



No. 13C638



No. 13C642

Stericycle

Medical Waste Mail-Back Systems

Sharps Medical Waste and Sharps Systems—Include all components required for collection of small quantities of medical waste and sharps containers. Feature prepaid and preaddressed shipping labels and prepaid disposal. Tracking documents are returned for proof of destruction.

Sharps Cabinet and Wall-Mount Brackets—Cabinet provides a secure receptacle for individual needles and sharps. Brackets are an economical way to secure mail-back system to a wall or cabinet.

Size	Mfr. Model	Item No.
Medical Waste Mail-Back Systems		
1 gal.	1GWMV4	**13C636**
5 gal.	5GWMV5	**13C638**
Medical Waste Mail-Back Systems with Spill Kit		
1 gal.	1GWMSK	**13C639**
5 gal.	5GWMSK	**13C641**
Sharps Mail-Back Systems		
1.4 qt.	1Q1V4	**13C629**
1.4 qt. (5 Pack)	1Q5V4	**13C633**
1 gal.	1G1V4	**13C630**
1 gal. (Twin Pack)	1G2V4	**13C634**
2 gal.	2G1V4	**13C631**
2 gal. (Twin Pack)	2G2V4	**13C635**
3 gal.	3G1V4	**13C632**
Sharps Cabinet		
Use with 1.4 qt. Systems	NDCSS1	**13C642**
Wall-Mount Brackets for Sharps Systems		
Universal with Lock	MBBRKT-LC	**13C643**

GRAINGER APPROVED

Wheelchairs

Feature embossed upholstery, chart pocket, removable desk-length arms, and swing-away detachable elevated leg rests. No. 4EKE3 has composite foot plates. No. 4EKE6 has aluminum foot plates and heavy-duty fork and welded fork stems.

Weight Cap.	Seat Dim. W	Seat Dim. D	Item No.
300 lb.	18"	16"	**4EKE3**
500 lb.	24"	18"	**4EKE6**



No. 4EKE3

GRAINGER APPROVED

Empty First Aid Cabinet

Durable metal cabinet provides protection for your first aid supplies. Side-opening with keyhole for wall mounting and a handle for convenient carrying.

No. of Shelves	H	W	D	Item No.
3	16½"	13½"	5⅞"	**39N796**





No. 467F90



No. 467F92

Biohazard Spill Kit and Absorbent Spill Powder

SPILL MAGIC

For cleanup and disposal of spilled bodily fluids.

Description	Includes	Volume Absorbed Per Pkg.	Item No.
Biohazard Spill Kit	Scoop, 8 oz. Lemon Fragrance Absorbent Powder, Biohazard Bag, (2) Bzk Antiseptic Towelettes, Germicidal Wipe, Pair Gloves, Disposable Bag, Ziplock® Bag, Instruction Sheet	16 oz.	**467F90**
Absorbent Spill Powder, Amorphous Alumina Silicate, Pkg. of 6	—	10 oz.	**467F92**

EAGLE ®

No. 4RF67



Biohazard Waste Cans

- Meet OSHA 29 CFR 1910.1030 for exposure to bloodborne pathogens

Impact-resistant polyethylene cans will not rust or corrode. Foot lever raises lid, which closes automatically after use.

Can Cap.	L	W	H	Mfr. Model	Item No.
6 gal.	16½"	13½"	16"	943BIO	**4RF67**
10 gal.	22"	18"	18"	945BIO	**4RF68**
14 gal.	22"	18"	21"	947BIO	**4RF69**

FIRST AID ONLY

No. 2TUW7



Sharps Containers and Brackets

Puncture-resistant containers provide safe, cost-effective sharps disposal. No. 2TUW7 has a locking top flap, and No. 2TUW8 has a rotating cylinder top that closes automatically.

Description	L	W	H	Mfr. Model	Item No.
Sharps Container, 1 qt.	3½"	3½"	6½"	M949	**2TUW7**
Sharps Container, 5 qt.	12½"	3¾"	9½	M943	**2TUW8**
Mounting Bracket, Metal, for No. 2TUW7	4½"	3 1⁄16"	2½"	M950	**2TUW9**
Mounting Bracket, Plastic, for No. 2TUW8	10"	6⅛"	5½"	M945	**2TUX1**



No. 2TUU2



No. 5DXY4



No. 3WHN6

Emergency Preparedness Kits

FIRST AID ONLY. American Red Cross GRAINGER APPROVED

Contain the fundamental supplies needed to address various emergency situations. All kits are conveniently packaged in a modular design case.

Description	Includes	Brand	Item No.
Backpack Kits			
Personal Safety	(2) Exam Quality Gloves, (5) Adhesive Plastic Bandage, ¾ x 3", (3) Adhesive Fabric Bandage, ¾ x 3", (5) Junior Adhesive Plastic Bandages, ⅜ x 1½", (1) Knuckle Fabric Bandage, (1) Fingertip Fabric Bandage, (2) Bzk Antiseptic Towelettes, (1) Triple Antibiotic Ointment Packs, 0.5g (1) Hand Sanitizer Pack, 0.9g (2) Germicidal Wipes (Kills Germs), (1) Emergency Drinking Water, (1) Emergency Poncho, (2) Hand Warmers, (1) Emergency Blanket, (1) Whistle With Neck Cord, (1) Light Stick, (1) N95 Mask	First Aid Only	**3WHP1**
Personal Emergency	(1) American Red Cross First Aid Guide, (1) Nylon Backpack, (1) Emergency Drinking Water, (1) N95 Mask, (2) Exam Quality Gloves, (2) Germicidal Wipes (Kills Germs), (1) Light Stick, (1) Whistle with Neck Cord, (1) Emergency Poncho, (1) Emergency Blanket, (2) Hand Warmers, (1) Mini First Aid Kit, (5) Adhesive Plastic Bandages, ¾ x 3", (3) Adhesive Fabric Bandages, ¾ x 3", (5) Junior Adhesive Plastic Bandages, ⅜ x 1½", (1) Fingertip Fabric Bandage, (1) Knuckle Fabric Bandage, (2) BZK Antiseptic Towelettes, (1) Triple Antibiotic Ointment Packs, 0.5g	American Red Cross	**2TUU2**
Nylon Case			
Emergency Medical	(2) Procedural Face Masks, (1) Germicidal Wipe, (1) Rain Poncho, (1) Emergency Blanket, (2) Hand Warmers, (1) Emergency Drinking Water Pouch, (1) Light Stick, (1) Whistle, (1) "Call 9-1-1" Banner, (6) Bzk Antiseptic Towelettes, (6) Alcohol Cleansing Pads, (3) Triple Antibiotic Ointment Packs, (2) Hand Sanitizer Packs, (1) Sterile Eye Pad, (6) 2" x 2" Gauze Dressing Pads, (2) 4" x 4" Gauze Dressing Pads, (1) 5" x 9" Trauma Pad, (1) 2" Conforming Gauze Roll, (20) ¾" x 3" Adhesive Plastic Bandage, (10) ¾" x 3" Adhesive Fabric Bandage, (10) ⅜" x 1½" Junior Adhesive Bandage, (2) 1½" x 1½" Patch Bandages, (2) Fingertip Fabric Bandages, (2) Knuckle Fabric Bandages, (3) Butterfly Wound Closures, (10) Cotton-Tipped Applicators, (2) Exam Quality Vinyl Gloves, (1) First Aid Tape Roll, (2) 2" x 2" Moleskin Square, (1) Finger Splint, (1) American Red Cross First Aid Guide, (1) Emergency Preparedness Reference Card	American Red Cross	**5DXY4**
Plastic Case			
Personal Protection with CPR Faceshield	(3) Antiseptic Towelettes, (1) Disposable Gown with Full Sleeves, (1) Disposable Bonnet, (2) Disposable Shoe Covers, (1) Eye Shield With Ear Loop Mask, (1) 24 x 24" Biohazard Bag, (1) 8 x 12" Clear Plastic Bag, (1) Twist Tie, (2) Pair of Exam Quality Gloves, (1) CPR Pack: (1) CPR One-Way Valve Face Shield, (2) Exam Quality Gloves and (3) Antiseptic Towelettes	First Aid Only	**2TUU1**
Trauma Responder	(4) 1 Pair Exam Quality Vinyl Gloves, (6) 4" x 4" Gauze Dressing Pad, (4) 5" x 9" Trauma Pad, (1) 2" Conforming Gauze Roll Bandage, (2) 3" Conforming Gauze Roll Bandage, (1) ½" x 5 yd. First Aid Tape Roll, (6) BZK Antiseptic Towelettes, (2) 0.9g Hand Sanitizer Pack	First Aid Only	**3WHN6**
Burn Responder Pack	(1) Burn Dressing 4 x 16", (1) Burn Dressing 4 x 4", (1) 1 x 5 yd. Adhesive Spool Tape, (1) 4" Sterile Stretch Gauze, (1) Scissors, (4) Nitrile Exam Gloves, (3) 4 oz. Eyewash, (1) First Aid Guide	GA	**39N808**
CPR Responder	(2) CPR Latex Free Face Shield, (4) Exam Vinyl Gloves, (4) Bzk Antiseptic Towelettes, (4) Antimicrobial Wipes, (2) Tissue Pack, 15/Pack, (2) 0.9g Hand Sanitizer Pack, (1) 24" x 24" Biohazard Bag, (1) Twist Tie	First Aid Only	**3WHN5**
Eye Care Responder	(2) 4 oz. Eye Wash Bottle, (4) Eye Cups, (4) Sterile Eye Pads, (1) 2" Conforming Gauze Roll, (1) 3" Conforming Gauze Roll, (2) First Aid Tape Roll, (2) 9g Hand Sanitizer Pack	First Aid Only	**3WHN9**

ZOLL®

Mobile Rescue Systems

These mobile rescue systems come with equipment and guidance to help users respond to traumatic events. Emergency medical kit No. 55KM13 guides users with real-time instructions with Mobilize Rescue App on how to use supplies to provide care for severe bleeding, seizures, choking, hypothermia, broken bones, allergic reactions, and more. Medical pack No. 55KM14 has an integrated rescue app and is portable and can be stored in vehicles or in remote locations. Law enforcement kit No.55KM15 works with Mobilize Rescue App and is compact and light and can be kept in work trucks, in the office, or with emergency response team members. Trauma kits Nos. 55KM16 and 55KM17 provide direction with Mobilize Rescue App and come in smaller cases and can be stored in classrooms, glove compartments, or other small spaces.



No. 55KM13

Description	Color	Item No.
Emergency Medical Kit	Gray	**55KM13**
Medical Pack	Gray	**55KM14**
Law Enforcement Kit	Gray	**55KM15**
Trauma Kit	Red	**55KM16**
Trauma Kit	Red	**55KM17**



No. 11C664



No. 2WUU9



No. 3PAC4



No. 3PAJ8

Medique® FIRST AID ONLY. Honeywell NORTH

Emergency Response Supplies

Description	Brand	Item No.	Pkg. Qty.
Drinking Water, 125mL	Mayday	**11C664**	1
Drinking Water, 125mL	Mayday	**492T85**	100
Food Ration, 2400 Calorie	First Aid Only	**2WUU9**	1
Water Purification Tablets	Honeywell North	**3PAC4**	50
Mylar® Emergency Blanket, 84" x 52"	Honeywell	**3PAJ8**	1

No. 1YNR5





No. 4EGN3

ZOLL®

Automatic AEDs

Full-rescue AEDs provide Real CPR Help® for rate and depth of chest compressions during CPR. Voice prompts and graphics guide rescuer through Chain of Survival, starting with checking responsiveness and ending with CPR compressions.

AED units with PlusTrac™ provide a third-party web-based service that ensures AED is properly maintained and has all necessary components. Acts as a resource for employees and ensures compliance with Good Samaritan laws. PlusTrac system includes medical direction with prescription, emergency response plan, dedicated account manager, AED registration/EMS notification, database setup, interactive AED management, e-minders and alert notifications, and interactive reporting console.

PlusTrac1 is a 1-yr. management program, and PlusTrac5 is a 5-yr. management program.

AED Plus® Fully Automatic—Fully automatic devices provide audible prompt: "DON'T TOUCH PATIENT," and then begin analysis. Automatically delivers shock if needed. If "NO SHOCK REQUIRED," prompts rescuer to begin CPR.

AED Plus® Semiautomatic—Semiautomatic AEDs require medical direction (included with every AED Plus® unit). Unit includes 10 batteries and 1 set of CPR-D-padz®. Pedi-padz II® No. 1YNR9 (pediatric pads) are sold separately.

AED Pro® Semiautomatic—Advanced functionality helps improve a patient's chance of survival. LCD displays ECG while using a 3-lead monitoring cable (No. 4EGN9, sold separately). Manual override for extra flexibility. Real CPR Help® feature helps user achieve optimum rate and depth of compression levels. See Thru CPR® feature helps professionals to view a patient's underlying ECG rhythm. Batteries sold separately.

Description	Cable Length	H	W	D	Mfr. Model	Item No.
AED Plus® Fully Automatic with Medical Direction, and CPR-D-padz						
Unit	48"	5¼"	9½"	11½"	8000-004007-01	**49K145**
Unit w/Storage Cabinet	48"	17½"	17½"	9"	22900700702011010	**49DR46**
Unit w/PlusTrac1 Program Management	48"	5¼"	9½"	11½"	8000-004010-01	**49K146**
Unit w/PlusTrac5 Program Management	48"	5¼"	9½"	11½"	8000-004011-01	**49K147**
AED Plus® Semiautomatic with Medical Direction, CPR-D-padz, and Batteries						
Unit	33½"	11½"	9½"	5¼"	8000-004000-01	**1YNR5**
Unit w/Storage Cabinet	33½"	17½"	17½"	9"	22900000102011010	**49DR45**
Unit w/PlusTrac1 Program Management	33½"	11½"	9½"	5¼"	8000-004003-01	**1YNR6**
Unit w/PlusTrac5 Program Management	33½"	11½"	9½"	5¼"	8000-004004-01	**1YNR7**
AED Pro® Semiautomatic with Medical Direction, and CPR-D-padz						
Unit	—	9½"	9½"	3"	90110200499991010	**4EGN3**
AED Plus® and AED Pro® Accessories						
CPR-D-padz	33½"	—	—	—	8900-0800-01	**1YNR8**
Pedi-padz II	31½"	—	—	—	8900-0810-01	**1YNR9**
AED Plus® Accessories						
Soft-Sided Carrying Case	—	9½"	9"	6"	8000-0802-01	**4EGP5**
Steel Storage Cabinet w/Alarm	—	17½"	17½"	9"	8000-0855	**4EGP6**
AED Pro® Accessories						
Battery Pack	—	—	—	—	8000-0860-01	**4EGN8**
3-Lead ECG Monitoring Cable	60"	—	—	—	8000-0838	**4EGN9**

PHYSIO CONTROL

No. 6GJN2



No. 454H59



AED Packages

Keep automated external defibrillators (AEDs) available for victims of sudden cardiac arrest.

HeartSine samaritan® PAD 350P/360P/450P AEDs—Up to 56% smaller than other AEDs. User-friendly, visual and voice prompts guide rescuer through entire resuscitation process, including CPR. With just an On/Off button or SHOCK button, PAD (public access defibrillator) uses electrode technology. A low energy escalating waveform automatically adjusts for differences in patient impedance. IP56 rated to guard against dust and water. No. 6GJN2 offers semiautomatic shock delivery and includes cabinet. No. 6GJN3 transmits automatic shock after analyzing heart rhythm.

LIFEPAK® CR Plus—Specially designed for the first person to respond to a victim of sudden cardiac arrest. Simple to turn on. Easy to find, remove, and place electrodes correctly. Fully automatic with ClearVoice prompts and shock therapy. Automatically escalates to 360 joules if needed. No. 454H59 delivers semiautomatic shock and includes a storage cabinet.

LIFEPAK® 1000 AED—Designed for professional responders. Large, intuitive screen displays clear, easy-to-read graphics and ECG readings. cprMAX™ technology minimizes CPR interruptions by allowing compressions to continue during AED charging.

Lucas 3® Chest Compression System—Intended for use as an adjunct to manual CPR when effective manual CPR is not possible. Ideal during patient transport, or extended CPR when fatigue may affect the delivery of successful/consistent compressions, or when EMS personnel are unavailable to perform CPR. Unit delivers consistent, high-quality chest compressions.

Includes	H	W	D	Mfr. Model	Item No.
HeartSine samaritan® 350P AED Package with Cabinet					
AED with Padpak, Administrator Toolkit with Inspection Tags and Checklist, Policy Templates, State Specific AED Acquirer State Law Compliance Checklist, Fast Response Kit, AED Alarm Cabinet and Full Indemnity, 10 Year Warranty for AED	8"	7⅜"	1⅞"	HS001F	**6GJN2**
HeartSine samaritan® 350P AED Package					
AED with Padpak, Administrator Toolkit with Inspection Tags and Checklist, Policy Templates, State Specific AED Acquirer State Law Compliance Checklist, Fast Response Kit and Full Indemnity	8"	7⅜"	1⅞"	80514-000263	**6GJN3**
HeartSine samaritan® PAD 450P AED Package					
AED, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit	8"	8"	2"	80515-000002	**454H52**
LIFEPAK® CR Plus Full-Auto AED Package with Cabinet					
AED, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit, Set of Location Decals, 3D Plastic Notification Sign, Surface Mounted Cabinet with Alarm	43⁄16"	8"	9½"	PH002F	**454H59**
LIFEPAK® CR Plus Full-Auto AED Package					
AED, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit	43⁄16"	8"	9½"	80403-000149	**454H54**
LIFEPAK® 1000 AED with ECG Monitoring Package					
AED, Adult Electrodes, Battery, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit	3⅜"	9 3⁄16"	10⅞"	99425-000025	**454H96**
Lucas 3® CPR Assist Chest Compressions Machine Package					
Machine, Battery, Case, Stabilization Strap, Suction cups (2), Wall Charger, Instruction, Operating Manual	22"	9⅜"	—	99576-000043	**454J45**



No. 38N654

defibtech

Semiautomatic AEDs

Easy-to-use semiautomatic AEDs help any user provide treatment for sudden cardiac arrest. Designed for use as standard equipment, devices have a simple 2-button interface, calm voice prompts, status indicator, and progress lights. No. 24VL57 Starter Kit includes AED, wall-mount cabinet with alarm, CPR rescue pack, 3-way wall sign, and prescription card. Other defibrillators come complete with adult electrode pads, battery pack, carrying case, and rescue kit with CPR mask, scissors, antiseptic wipe, razor, and nitrile gloves. Include a medical prescription/authorization coupon. See Grainger.com® for contents.

Description	Cable Length	H	W	D	Mfr. Model	Item No.
Lifeline AED Starter Kit						
5-yr. Battery	48"	19"	19"	5"	CCPRX-0001	**24VL57**
Semiautomatic Lifeline VIEW AEDs						
4 yr. Battery	48"	9½"	7⅜"	2⅜"	DCF-A2310RX	**38N656**
Semiautomatic Lifeline AED with Rxs						
5 yr. Battery	48"	11 3⁄16"	8½"	2 1⁄16"	DCF-A100RX-EN	**38N654**
Semiautomatic Lifeline High Capacity AED with Rxs						
7 yr. Battery	48"	11 3⁄16"	8½"	2 1⁄16"	DCF-A110RX-EN	**38N655**
Accessories						
Adult Electrode Pads, 12"L, Pair	48"	—	—	—	DDP-100	**38N661**
Lifeline AED 5 yr. Battery Pack	—	—	—	—	DCF-200	**38N657**
Lifeline Lifeline High Capacity AED with Rx Only	48"	11⅛"	8½"	2 1⁄10"	DCF-A130RXEN	**24VL61**

Nos. 4YF98 and 3NY85 (Sold Separately)



Gravity-Fed Emergency Eye Wash Stations

Bradley

- Meet ANSI Z358.1-2014

Flush eyes for 15 min. using 7 gal. of water. See-through tank for easy visual inspection. Each includes eye wash sign and inspection tag. No. 3PVH3 has insulated heater jacket that controls water in weather conditions down to -10°C. Waterproof. 9-ft. power cord.

Description	Mfr. Model	Item No.
Eye Wash Stations		
Eye Wash Station	S19-921	**4YF98**
Heated Eye Wash Station with Insulated Heater Jacket	S19-921H	**3PVH3**
Optional Accessories for No. 4YF98		
Transport and Waste Collection Cart	S19-399	**3NY85**
Heating Jacket Retrofit Kit	S19-921HR	**3NY84**



No. 2LVL4

Guardian

Gravity-Fed Emergency Eye Wash Station

- Meets ANSI Z358.1-2014

Self-contained unit holds 16 gal. of eye wash and flushes eyes for 15 min. Includes wall bracket, drain hose, and inspection tag. Eye wash preservative No. 2LVL5 protects against bacterial growth and impurities.

Description	Mfr. Model	Item No.
Eye Wash Station	G1540	**2LVL4**
Eye Wash Preservative	G1540BA	**2LVL5**



No. 3PVG8

Haws

Gravity-Fed Emergency Eye Wash Stations

- Meet ANSI Z358.1

Flush eyes for 15 min. Include wall bracket.

Description	Mfr. Model	Item No.
Eye Wash Station, 9.0 gal.	7501	**3PVG8**
Eye Wash Station, 16.0 gal.	7500	**4HRX9**
Eye Wash Preservative, 8 oz. Bottle, Pkg.of 12	9082-C	**55HF83**



No. 36N059



No. 3ARD6



No. 3PVJ1

Emergency Eye Wash Stations and Travel Bag

PhysiciansCare

Honeywell

Highly visible stations provide easy access in an emergency. Enclosed models are available online, see Grainger.com®. No. 3PVJ1 Emergency Eye Wash Travel Bag allows for immediate and continued flushing during transport.

Description	Bottle Size	Brand	Item No.
Single Eye Wash Station	16 oz.	PhysiciansCare	**36N059**
	32 oz.	PhysiciansCare	**36N061**
	16 oz.	Honeywell	**3ARD6**
Dual Eye Wash Station	(2) 16 oz.	PhysiciansCare	**36N060**
	(2) 32 oz.	PhysiciansCare	**22FX25**
	(2) 32 oz.	Honeywell	**3ARD8**
Replacement Eye Wash Bottle for No. 3ARD6	16 oz.	Honeywell	**3ARE2**
Replacement Eye Wash Bottle for No. 3ARD8	32 oz.	Honeywell	**3ARE1**
Eyesaline® Eye Wash Personal Travel Bag	(6) 1 oz., (6) 4 oz.	Honeywell	**3PVJ1**
Replacement Eyesaline® Eye Wash for No. 3PVJ1	1 oz.	Honeywell	**3PVT3**
	4 oz.	Honeywell	**3PVT4**



No. 2DEB1



No. 6JD83



No. 6JD87



No. 3PVU3

Honeywell

Emergency Eye Wash Stations

FENDALL 2000™

- Meets ANSI Z358.1-2014

Compact self-contained 100% sterile unit for facilities tight on space. Requires Saline Cartridge No. 60KJ87, sold separately.

FENDALL PURE FLOW 1000®

- Meets ANSI Z358.1-2014

Self-contained unit requires Saline Cartridge No. 6JD84, sold separately.

FENDALL PORTA STREAM® III, II, AND I

Portable gravity-fed stations.

Fendall Porta Stream III—Features fluid heating system that allows outdoor use in temperatures from 72° to -32°F. Delivers 15 min. of flushing. Includes 180-oz. saline concentrate.

- Meets ANSI Z358.1-2009

Fendall Porta Stream II—Delivers 15 min. of flushing. No. 3PVP7 includes 180-oz. saline concentrate. No. 6JD87 requires Saline Concentrate No. 4GB22, sold separately.

Fendall Porta Stream I—Delivers 6 min. of flushing. No. 3PVP3 includes 70-oz. saline concentrate. No. 4GB23 includes 8-oz. water preservative; requires saline solution, sold separately.

FENDALL FLASH FLOOD

Pull-off retainer strap allows 3 min. of flushing. Includes Saline Solution No. 3PVU4.

Description	Mfr. Model	Item No.
Fendall 2000™; Eyesaline®		
Eye Wash Station	32-002000-0000	**2DEB1**
Sterile Saline Cartridge	32-002050-0000	**60KJ87**
Fendall Pure Flow 1000®; Eyesaline®		
Eye Wash Station	32-001000-0000	**6JD83**
Standard Saline Cartridges, Pkg. of 2	32-001050-0000	**6JD84**
Fendall Porta Stream® III; Eyesaline®		
Heated Eye Wash Station with Insulated Heat Jacket and 180-oz. Saline	32-000310-0000	**4LNF8**
Fendall Porta Stream® II; Eyesaline®		
Eye Wash Station with 180-oz. Saline	32-000200-0000	**3PVP7**
Eye Wash Station with 8-oz. Water Additive	32-000230-0000	**6JD87**
Fendall Porta Stream® I; Eyesaline®		
Eye Wash Station with 70-oz. Saline	32-000100-0000	**3PVP3**
Eye Wash Station with 8-oz. Water Additive	32-000130-0000	**4GB23**
Fendall Porta Stream®; Eyesaline® Accessories		
Saline, 70-oz. for Porta Stream® I	32-000509-0000-H5	**3PVU6**
Saline Concentrate, 180-oz., for Porta Stream® I and II	32-000513-0000	**4GB22**
Water Additive, 8-oz.	32-001100-0000	**6JD86**
Pull-Strap for Porta Stream® I, II, and III	32-000102-0000	**3PVP1**
Eye Wash Station Dust Cover for Porta Stream® I, II, and III	32-000522-0000	**300R63**
Insulated Heat Jacket for Porta Stream® III	32-000530-0000	**3PVR1**
Fendall Flash Flood; Eyesaline®		
Eyewash Station	32-000400-0000	**3PVU3**
Wall Rack	32-000402-0000	**3PVP9**
Saline Cartridge	32-000401-0000	**3PVU4**
Accessories		
Universal Mobile Cart	32-001060-0000	**6JD85**
Universal Eyewash Stand	32-001065-0000	**1FYU2**
Disposal Cart for Porta Stream® Models and Flash Flood	32-000511-0000	**4GB24**
Premix Eyewash Solution, 1 gal.	32-000502-0000	**3PVU5**



No. 4T004

Bradley

Pressurized Portable Emergency Eye Wash Stations

- Meet ANSI Z358.1; No. 4T003 meets as supplementary eye wash only

Standard—8-ft. drench hose with handheld squeeze valve. Stainless steel push handle activates 2 eye wash heads to rinse face and body.

Heated—Stations include 2 eye wash heads and feature insulated heater jacket that controls water in weather conditions down to -10ºC.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
Standard				
5.0 gal. Tank	14 lb.	43 lb.	S19-672	**4T003**
10.0 gal. Tank	23 lb.	90 lb.	S19-690	**4T004**
15.0 gal. Tank	28 lb.	128 lb.	S19-788	**4R983**
Heated				
10.0 gal. Tank	32 lb.	95 lb.	S19-690H	**3KNU8**
15.0 gal. Tank	37 lb.	112 lb.	S19-788H	**9F558**



No. 9XD46



No. 38NJ18

Guardian

Pressurized Portable Emergency Eye Wash Stations

- Meet ANSI Z358.1-2014

Eye wash units have 2 spray outlet heads with flip-top dust covers, internal flow control, and filter. 6-ft. PVC drench hose features chrome-plated brass squeeze valve with stainless steel lever handle. Stainless steel pressure tanks have built-in carrying handles. Include ANSI-compliant identification sign and inspection tag. No. 38NJ18 features an orange insulation jacket to endure sustained low or freezing temperatures over long periods of time. Silicone drum heater is attached to the tank with a spring latch.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
Eye Wash Station				
15.0 gal. Tank	36.5 lb.	118.9 lb.	G1562	**9XD46**
Heated Eye Wash Station				
15.0 gal. Tank	42 lb.	125 lb.	G1562HTR	**38NJ18**



No. 16D372

Haws

Pressurized Portable Emergency Eye Wash Stations

- Meet ANSI Z358.1

Eye wash tanks have 2 ABS plastic antisurge heads with integral flow controls. Drench hose included with No. 16D372 features chrome-plated brass stay-open squeeze valve. Stainless steel tanks help provide corrosion resistance.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
15.0 gal. Tank	47 lb.	172 lb.	7603	**49UG21**
37.0 gal. Tank with 6-ft. Drench Hose	110 lb.	400 lb.	7601.37	**16D372**



No. 2LVE1

Guardian

Emergency Faucet-Mount Eye Washes

- Meet ANSI Z358.1-2014, except No. 2LVE7

Convert any faucet into an emergency eye wash station. Push/pull knob activates wash. ANSI compliant as personal/supplemental eye washes only, not as a primary eye wash.

Description	Mfr. Model	Item No.
Mounted 3" Apart	G1100	**2LVE1**
Mounted 3" Apart w/Shut-Off Valve	G1200	**2LVE5**
Mounted 5" Apart	G1101	**2LVE3**
Mounted 5" Apart w/Shut-Off Valve	G1201	**2LVE7**



Bradley

Emergency Faucet-Mount Eye Wash

- Meets ANSI Z358.1-2009

Install on existing standard or gooseneck faucets. Includes identification sign and inspection tag. ANSI compliant as a personal/supplemental eye wash only, not as a primary eye wash.

Description	Mfr. Model	Item No.
Includes 1-Step Diverter	S19-200B	**4YF94**



Haws

Emergency Faucet-Mount Eye Wash

- Meets ANSI Z358.1

AXION® eyePOD® is designed for use on standard faucets; easy to install and activate. Flow pattern helps eliminate contaminants from entering nasal cavity. Thermostatic safety valve eliminates scalding.

Description	Mfr. Model	Item No.
All Stainless Steel Eye Wash	7620	**11L739**

Haws

Emergency Deck and Wall-Mount Eye/Face Washes

- Meet ANSI Z358.1

Feature AXION® MSR eye/face wash heads with inverted directional laminar flow to keep contaminants away from nasal cavity. Nos. 16D384 and 16D385 include a hose for extended coverage area. No. 3RVF5 is designed for wheelchair accessibility. All include a universal sign.


No. 3RVF7


No. 16D385

No. 3RVF6

Description	Mfr. Model	Item No.
Deck Mount		
Push Handle Eye/Face Wash, Right Hand Mount	7612	**3RVF7**
Push Handle Eye/Face Wash, Left Hand Mount	7612LH	**16D393**
Swing Activated Eye/Face Wash, Right or Left Hand Mount	7611	**3RVF6**
Squeeze Lever Eye/Face Wash	8904	**16D384**
Deck or Wall-Mount		
Swing-Down Activated, Barrier-Free Eye/Face Wash	7610	**3RVF5**
Wall-Mount		
Eye/Face Wash and Body Spray with 12-ft. Recoil Swivel Drench Hose	8905	**16D385**

Guardian

Emergency Wall- and Pedestal-Mount Eye Wash Stations

- Meet ANSI Z358.1-2014

Feature 11½"-dia. bowl with twin spray heads, stay-open ball valve, and flag handle. Spray heads have internal filter and dust cover. Include identification sign and inspection tag. Barrier-Free Station No. 2LVL7 also meets ANSI 117.1 for wheelchair accessibility.


No. 2LVH5


No. 3RVR4


No. 2LVJ8

Description	Eye Wash Bowl Material	Mfr. Model	Item No.
Wall-Mount			
Eye Wash	ABS Plastic	G1814P	**2LVH5**
	Stainless Steel	G1814	**2LVH6**
Eye Wash with Hinged Dust Cover	Stainless Steel	G1814BC	**2LVH7**
Eye Wash (All Stainless Steel)	Stainless Steel	G1891	**2LVH8**
Eye/Face Wash	ABS Plastic	G1750P	**2LVJ3**
	Stainless Steel	G1750	**2LVJ4**
Wide Area Eye/Face Wash	ABS Plastic	G1724P	**3RVR5**
	Stainless Steel	G1724	**3RVR4**
Eye/Face Wash with Hinged Dust Cover	Stainless Steel	G1750BC	**2LVJ5**
Pedestal-Mount			
Eye Wash	ABS Plastic	G1825P	**2LVH9**
	Stainless Steel	G1825	**2LVJ1**
Eye Wash with Hinged Dust Cover	Stainless Steel	G1825BC	**2LVJ2**
Eye/Face Wash	ABS Plastic	G1760P	**2LVJ6**
	Stainless Steel	G1760	**2LVJ7**
Eye/Face Wash with Hinged Dust Cover	Stainless Steel	G1760BC	**2LVJ8**
Barrier-Free Station			
Wide Area Eye/Face Wash	Stainless Steel	GBF1724	**2LVL7**

★ Condor

Emergency Wall- and Pedestal-Mount Eye Wash Stations

- Meet ANSI Z358.1-2014

Two spray heads deliver water for rinsing eyes. Each head has a dust cover, flow control, and filter to remove impurities from the water flow. Bowl dia. is 11½". Include ANSI Compliant sign and inspection tag.


No. 49EV46

Description	Eye Wash Bowl Material	Color	Item No.
Wall-Mount			
Twin Head	Stainless Steel	Yellow	**49EV48**
	ABS Plastic	Yellow	**49EV49**
Pedestal-Mount			
Twin Head	Stainless Steel	Yellow	**49EV46**
	Stainless Steel	Green	**49EV54**
	ABS Plastic	Green	**49EV55**


No. 16D387

Haws

Emergency Wall- and Pedestal-Mount Eye/Face Wash Stations

- Meet ANSI Z358.1

AXION® MSR stations include 11" bowl, except No. 16D370. The eye/face wash head has inverted directional laminar flow to help keep contaminants away from nasal cavity. Feature a stay-open ball valve with stainless steel ball and stem. Eye/face wash head includes plastic pop-off dust cover, except on Nos. 16D398 and 16D374. All except No. 16D370 include a mesh water strainer. Barrier-Free Station No. 16D388 is ADA Compliant for wheelchair accessibility.

Description	Eye Wash Bowl Material	Mfr. Model	Item No.
Wall-Mount			
Eye/Face Wash	ABS Plastic	7260B-7270B	**4HRW5**
	Stainless Steel	7360B-7460B	**4HRW7**
Eye/Face Wash without Bowl	No Bowl	7324	**16D370**
Eye/Face Wash with Hinged Dust Cover (All Stainless Steel)	Stainless Steel	7778B	**16D398**
Pedestal-Mount			
Eye/Face Wash	ABS Plastic	7261-7271	**16D387**
	Stainless Steel	7361-7461	**16D389**
Eye/Face Wash with Hinged Dust Cover (All Stainless Steel)	Stainless Steel	7777	**16D374**
Barrier-Free Station			
Eye/Face Wash	Stainless Steel	7360BTWC	**16D388**


No. 6DGX7

No. 4R961

Emergency Wall- and Pedestal-Mount Eye Wash Stations

- Meet ANSI Z358.1-2014

Models feature stay-open ball valves. Each includes an identification sign and inspection tag.

Halo Models—Exceed ANSI Z358.1 specifications for maximum washdown coverage and spray pattern. Include 13" bowl and all models are barrier-free with ergonomic stainless steel push handles that can be reached from any direction. ADA Compliant.

Bradley

Classic Models—Designed with 10"-dia. eye wash bowl and PVC push handle.

Description	Eye Wash Bowl Material	HALO MODEL Mfr. Model	HALO MODEL Item No.	CLASSIC MODEL Mfr. Model	CLASSIC MODEL Item No.
Wall-Mount					
Eye Wash	Plastic	S19224EW	**6DGX7**	S19-220	**2P267**
	Stainless Steel	S19224B	**6DGX9**	S19-220B	**4T009**
Eye Wash with Hinged Dust Cover	Plastic	S19224PDC	**6DGX8**	—	—
	Stainless Steel	S19224DC	**6DGY0**	S19-220DC	**4T010**
Eye/Face Wash	Plastic	S19224FW	**6DGY2**	S19-220FW	**4R963**
	Stainless Steel	S19224T	**6DGY4**	S19-220T	**4R965**
Eye/Face Wash with Hinged Dust Cover	Plastic	S19224PDCFW	**6DGY3**	—	—
	Stainless Steel	S19224DCFW	**6DGY1**	—	—
Pedestal-Mount					
Eye Wash	Plastic	S19214EW	**6DGY5**	S19-210	**4R961**
	Stainless Steel	S19214B	**6DGY7**	S19-210B	**4R959**
Eye Wash with Hinged Dust Cover	Plastic	S19214PDC	**6DGY6**	—	—
	Stainless Steel	S19214DC	**6DGY8**	S19-210DC	**2VYX5**
Eye/Face Wash	Plastic	S19214FW	**6DGZ0**	S19-210FW	**3DUT1**
	Stainless Steel	S19214Y	**6DGZ2**	S19-210Y	**2VYX6**
Eye/Face Wash with Hinged Dust Cover	Plastic	S19214PDCFW	**6DGZ1**	—	—
	Stainless Steel	S19214DCFW	**6DGY9**	—	—

Emergency Drench Showers

Bradley



- Meet ANSI Z358.1-2014

Designed to rinse the entire body. Compact showerhead activates with stainless steel triangular pull rod. Identification sign and inspection tag included. Shower Tester No. 3T955 keeps showers in compliance with ANSI Standards. 3-ply vinyl laminate funnel with weighted bottom. Telescoping handle extends funnel up to 6 ft.

Description	Shower Head Material	Mfr. Model	Item No.
Drench Showers			
Wall Mount	Plastic	S19-120	**2P268**
Wall Mount with Stainless Steel Shroud	Plastic	S19-120A	**4R951**
Ceiling Mount	Plastic	S19-130	**4T007**
Ceiling Mount with Stainless Steel Shroud	Plastic	S19-130A	**4R955**
Emergency Shower Tester			
84"L x 15"W	—	S19-330ST	**3T955**

Guardian

Emergency Drench Showers



- Meet ANSI Z358.1-2014

Designed to rinse off the entire body. Furnished with a showerhead, stainless steel pull rod, and ANSI-Compliant identification sign.

Barrier-Free Drench Shower—Shower pull rod is longer and unit extends out to accommodate people with physical disabilities.

- Meets ANSI 117.1, ADA Compliant

Description	Shower Head Material	Mfr. Model	Item No.
Drench Showers			
Wall Mount	ABS Plastic	G1643	**2LVG8**
	Stainless Steel	G1643SSH	**2LVG9**
Wall Mount (All Stainless Steel)	Stainless Steel	G1691	**2LVH1**
Ceiling Mount	ABS Plastic	G1635	**2LVH2**
	Stainless Steel	G1635SSH	**2LVH3**
Ceiling Mount (All Stainless Steel)	Stainless Steel	G1692	**2LVH4**
Barrier-Free Drench Shower			
Wall Mount	ABS Plastic	GBF1643	**2LVL6**



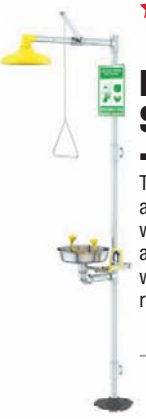
Condor

Emergency Drench Showers

- Meet ANSI Z358.1-2014

Drench showers for wall or ceiling mounting. Feature 10"-dia. shower head and 1" IPS chrome-plated brass stay-open ball valve. Furnished with stainless steel actuating arm and 29" stainless steel pull rod. Include ANSI Compliant sign and inspection tag.

Description	Shower Head Material	Color	Item No.
Wall Mount	ABS Plastic	Yellow	**49EV43**
	ABS Plastic	Green	**49EV51**
Ceiling Mount	ABS Plastic	Yellow	**49EV42**
	ABS Plastic	Green	**49EV50**



Condor

Emergency Combination Drench Shower/Eye Wash Stations

- Meet ANSI Z358.1-2014

Two spray heads deliver water for rinsing eyes. Each head has a dust cover, flow control, and filter to remove impurities from water. Feature 10"-dia. shower head, 11½" eye wash bowl, and chrome-plated brass stay-open ball valves. Furnished with stainless steel actuating arm and 29" stainless steel pull rod. Include ANSI-Compliant sign and inspection tag.

Shower Head Material	Eye Wash Bowl Material	Color	Item No.
ABS Plastic	ABS Plastic	Yellow	**49EV45**
		Green	**49EV53**
	Stainless Steel	Yellow	**49EV44**
		Green	**49EV52**

Guardian

Emergency Deck and Wall-Mount Eye Washes and Drench Hose/Eye Washes





- Meet ANSI Z358.1-2014

Single- and dual-head units with hose can be removed from holder to use as drench hose. Dual-head units are also fixed eye washes. All other units are designed for mounting on deck next to sink, except No. 2LVK4 mounts behind sink. Dual-head models feature stay-open valve handle locking clip. Swing-activated eye washes swivel out 90° to operational position. All include ANSI Compliant identification sign.

Description	Mfr. Model	Item No.
Deck Mount		
Single Head Drench Hose with 8 ft. Reinforced PVC Hose	G5020	**2LVK8**
Dual Head Drench Hose with 8 ft. Reinforced PVC Hose	G5022	**2LVK5**
Push Handle Eye Wash, Right Hand Mount	G1806	**2LVK2**
Push Handle Eye Wash, Left Hand Mount	G1806LH	**2LVK3**
Swing Activated Eye Wash, Right Hand Mount	G1805	**2LVJ9**
Swing Activated Eye Wash, Left Hand Mount	G1805LH	**2LVK1**
Swing-Down Activated Eye Wash, Right Hand Mount	G1849	**2LVK4**
Wall-Mount		
Single Head Drench Hose with 8 ft. Reinforced PVC Hose	G5025	**2LVK9**
Dual Head Drench Hose with 8 ft. Reinforced PVC Hose	G5026	**2LVK6**
Dual Head Drench Hose with 12 ft. Nylon Hose	G5046	**2LVK7**





Bradley

Emergency Deck and Wall-Mount Eye Washes and Drench Hose/Eye Washes

- Meet ANSI Z358.1-2014

Drench hose/eye wash units feature ABS plastic spray heads; chrome-plated valve stays open. All other eye washes mount on counter or wall near sink; identification sign and inspection tag included. Swing-activated and swing-down eye washes provide a precise 20° activation and deactivation angle.

Description	Mfr. Model	Item No.
Deck Mount Drench Hose and Eye Wash		
Single Head with 8 ft. Hose	S19-460	**5T278**
Twin Head with 8 ft. Hose	S19-460EFW	**4R979**
Deck Mount Eye Wash		
Push Handle, Right Hand Mount	S19-270B	**4T012**
Push Handle, Left Hand Mount	S19-270BL	**3DUT5**
Swing Activated, Right or Left Hand Mount	S19-270C	**4YF97**
Deck/Wall Mount Eye Wash		
Swing Down Activated, Right or Left Hand Mount	S19-270HD	**3NY86**
Deck/Wall Mount Eye/Face Wash		
Swing Activated, Right or Left Hand Mount	S19-270E	**3DUT7**
Swing Down Activated, Right or Left Hand Mount	S19-270JD	**3DUT6**
Wall-Mount Drench Hose		
Single Head with 8 ft. Hose	S19-430A	**4T014**
Wall-Mount Drench Hose and Eye Wash		
Twin Head with 12 ft. Hose	S1944011ABC	**4R977**
Twin Head with Push Handle and 12 ft. Hose	S1944022ABC	**3DUT8**

Bradley®

Emergency Combination Drench Shower and Eye/Face Wash Stations

- Meet ANSI Z358.1-2014

Feature SpinTec™ showerheads that provide a more even spray pattern, stay-open ball valves, and identification and inspection tags.

Halo™ Models—Space-saving design provides maximum washdown coverage and spray pattern. Designed with an ergonomic stainless steel push handle that can be reached from any direction. Integral strainer reduces debris and reduces clogging.

Classic Models—Include PVC push handles.

Barrier-Free Stations—Shower pull-handle and eye wash bowl extend to accommodate people with physical disabilities.

Halo Heat Trace Stations—Heat Trace cable protects units from freezing temperatures to -50°F. Include shower temperature control thermostat, freeze protection valve, and power indicator light.

Accessory—Shower alarm alerts others when drench shower/eye wash is in use. 3-ply vinyl privacy curtain is mildew-resistant and measures 70"L x 145"W.



No. 6DGW4



No. 415Z14

Description	Shower Head Material	Eye Wash Bowl Material	HALO MODELS Mfr. Model	HALO MODELS Item No.	CLASSIC MODELS Mfr. Model	CLASSIC MODELS Item No.
Combination Drench Shower/Eye Wash Stations						
Eye Wash	Plastic	Plastic	S19314EW	**6DGW4**	S19-310	**2P332**
	Plastic	Stainless Steel	S19314SB	**6DGX4**	—	—
	Plastic with Stainless Steel Shroud	Stainless Steel	S19314F	**6DGX0**	—	—
Eye Wash and Hinged Dust Cover	Plastic	Plastic	S19314PDC	**6DGW5**	—	—
	Plastic	Stainless Steel	S19314DC	**6DGW8**	S19-310DC	**1FBJ2**
Eye Wash and Foot Treadle	Plastic	Stainless Steel	S19314AC	**6DGW6**	S19-310LL	**8CT47**
	Plastic with Stainless Steel Shroud	Stainless Steel	S19314UU	**6DGX6**	S19-310UU	**4T008**
Combination Drench Shower/Eye/Face Wash Stations						
Eye/Face Wash	Plastic	Plastic	S19314FW	**6DGX1**	S19-310FW	**2VYX4**
	Plastic	Stainless Steel	S19314SBFW	**6DGX5**	S19-310SBFW	**3DUR8**
Eye/Face Wash and Hinged Dust Cover	Plastic	Plastic	S19314PDCFW	**6DGX2**	—	—
	Plastic	Stainless Steel	S19314DCFW	**6DGW9**	—	—
Eye/Face Wash and Drench Hose	Plastic	Plastic	S19314P	**6DGX3**	—	—
Eye/Face Wash and Foot Treadle (All Stainless Steel)	Stainless Steel	Stainless Steel	S19314SS	**29XX02**	—	—
Eye/Face Wash and Foot Treadle	Plastic	Stainless Steel	—	—	S19-310AC	**4R971**
Eye/Face Wash (PVC Construction with Stainless Steel Fittings)	Plastic	Plastic	—	—	S19-310PVC	**4R973**
Barrier-Free Combination Drench Shower/Eye/Face Wash Stations						
Eye/Face Wash and Face Spray Ring	Plastic	Stainless Steel	S19314BF	**6DGW7**	—	—
Eye/Face Wash (All Stainless Steel)	Stainless Steel	Stainless Steel	S19314BFSS	**29XX01**	—	—
Heat Trace Combination Shower and Eye/Face Wash Stations						
SpinTec™ Showerhead, Top Water Supply with Indicator Lights, 93¾"H	Plastic	Plastic	S19-304D2TL	**415Z14**	—	—
SpinTec™ Showerhead, Bottom Water Supply with Indicator Lights, 93¾"H	Plastic	Plastic	S19-304D2BL	**415Z15**	—	—
SpinTec™ Showerhead, Bottom Water Supply, 93¾"H	Plastic	Plastic	S19-304D2B	**415Z16**	—	—

Description	Mfr. Model	Item No.
Accessory		
Privacy Curtain	S19-330	**4T015**

Haws®

Emergency Combination Drench Shower and Eye/Face Wash Stations

- Meet ANSI Z358.1-2014

Units provide both drench shower and eye/face wash or eye wash. Innovative AXION® MSR eye/face wash head uses an inverted directional laminar flow to wash contaminants away from the nasal cavity. Hydrodynamic showerhead design helps maintain equal distribution of water through the entire footprint of flow. Chrome-plated brass stay-open ball valve features stainless steel ball and stem. Self-adhesive high-visibility safety green and bright yellow stripes and a universal sign are included.

Heat Trace Station—Can operate down to -30°F. Features ¾" insulation, ABS jacket, thermostatically controlled 120VAC electric heat cable, and automatic thermal actuator to help prevent freezing. CSA Certified to ANSI Z358.1, Type 4 Electrical.



No. 4HRW9



No. 16D383

Description	Shower Head Material	Eye Wash Bowl Material	Mfr. Model	Item No.
Combination Drench Shower/Eye Wash Stations				
Eye/Face Wash	Plastic	Plastic	8320-8325	**4HRX1**
	Plastic	Stainless Steel	8300-8309	**4HRW9**
Eye/Face Wash without Bowl	Plastic	No Bowl	8317	**16D383**
Eye/Face Wash (Epoxy Coated Pipe and Fittings)	Plastic	Plastic	8320CRP	**16D406**
Eye/Face Wash (Epoxy Coated PVC Pipe and Stainless Steel Fittings)	Plastic	Plastic	8336	**4HRX6**
Eye Wash, Integral Flow Control, Dust Covers, and Thermal Actuator Valve	Plastic	Stainless Steel	8300.158	**16D382**
Eye/Face Wash and Hinged Dust Cover (All Stainless Steel)	Stainless Steel	Stainless Steel	8330	**4HRX4**
Heat Trace Station				
Eye/Face Wash (Top or Bottom Water Supply)	Plastic	No Bowl	8317CTFP	**16D405**



Guardian

Emergency Combination Drench Shower/Eye Wash Stations

- Meet ANSI Z358.1-2014

Stations have combined drench shower and eye/face wash or eye wash and include a 10"-dia. showerhead with stay-open ball valve and stainless steel pull rod. Eye and eye/face washes have 11½"-dia. eye wash bowl and feature twin spray outlet heads, stay-open ball valve, and cast-aluminum flag-type handle. Spray heads have internal filter and dust cover. Include ANSI-Compliant identification sign and inspection tag.

Heat Trace Station—Prevent freezing down to -40°F. Thermostat activates when internal piping temperature falls below 75°F.

Barrier-Free Stations—Shower pull rod and eye wash bowl extend to facilitate use by people with physical disabilities. Meet ANSI 117.1.

Description	Shower Head Material	Eye Wash Bowl Material	Mfr. Model	Item No.
Combination Drench Shower/Eye Wash Stations				
Shower with Eye Wash	Plastic	ABS Plastic	G1902P	**2LVA4**
Shower with Eye/Face Wash	Plastic	ABS Plastic	G1950P	**2LVC3**
Shower with Eye Wash	Plastic	Stainless Steel	G1902	**2LVA6**
Shower with Eye/Face Wash	Plastic	Stainless Steel	G1950	**2LVC5**
Shower with Eye Wash and Hinged Dust Cover	Plastic	Stainless Steel	G1902BC	**2LVA8**
Shower with Eye/Face Wash and Hinged Dust Cover	Plastic	Stainless Steel	G1950BC	**2LVC9**
Shower with Eye Wash	Stainless Steel	Stainless Steel	G1902BC-SSH	**4HRJ9**
Shower with Eye Wash (All Stainless Steel)	Stainless Steel	Stainless Steel	G1991	**2LVC1**
Shower with Eye/Face Wash (All Stainless Steel)	Stainless Steel	Stainless Steel	G1996	**2LVD2**
Heat Trace Station				
Shower with Eye Wash	ABS	No Bowl	GFR3107	**38NJ14**
Barrier-Free Stations				
Shower with Eye/Face Wash	Plastic	Stainless Steel	GBF1909	**2LVL8**
	Stainless Steel	Stainless Steel	GBF1909SSH	**4HRK1**
Accessories				
Emergency Station Alarm	—	—	AP275-200	**2LVD4**
Hand/Foot Treadle	—	—	AP050-010	**2LVC7**
Drench Hose, 8 ft.	—	—	G5011	**3JMT8**
Privacy Curtain	—	—	AP250-065	**3GUM2**



Guardian

Replacement Parts for Guardian® Eye Wash Stations

Visit Grainger.com® to identify model number(s) required.

Description	Mfr. Model	Item No.
½" IPS Ball Valve	AP600-101H	**2LVG6**
1" IPS Ball Valve	AP600-335H	**2LVG7**
Eyewash Spray Head	AP470-001	**2LVE9**
Eyewash Spray Head Body	AP470-021	**2LVF6**
Float-Off Dust Cover	250-046R	**2LVG3**
Foam Filter	470-004R	**2LVF2**
Foam Filter	470-024R	**2LVF8**
Shower Head, Plastic, Orange	AP450-032ORG	**2LVG4**
Shower Head, Stainles Steel	AP450-048	**2LVG5**
Spray/Dust Cover	AP470-022ORG-R	**2LVG1**
Spray Cover w/ Dust Cover	AP470-002ORG-R	**2LVF4**



Haws

Replacement Parts for Haws® Eye/Face Wash Stations

Visit Grainger.com® to identify model number(s) required.

Description	Mfr. Model	Item No.
AXION® Eye/Face Wash Head Assembly	SP65	**3RVJ1**
AXION® Shower Head, ABS Plastic	SP829	**3PVN8**
Bowl, ABS Plastic, 11" dia.	SP93	**3RVP7**
Bowl, Stainless Steel, 11" dia.	SP90	**8A880**
Dust Cover Assembly for Eye Wash Bowl, Stainless Steel	9102	**3RVR3**
Eye/Face Wash Head with Integral Dust Cover, ABS Plastic	SP21FC	**3RVF4**
Eye Wash Head, ABS Plastic	SP19	**3RVR1**
In-Line Mesh Strainer	SP509	**3RVP4**
Pull Rod, Stainless Steel	SP200	**3RVH3**
Stay Open Ball Shower Valve, Chrome-Plated Brass, 1"	SP260	**8TNE7**
Stay Open Ball Shower Valve, Stainless Steel, 1"	SP265	**3RVH2**
Stay Open Ball Valve with Push Flag, Chrome-Plated Brass, ½" Inlet x ½" Outlet	SP229	**8UKP5**
Stay Open Ball Valve with Push Flag, Stainless Steel, ½" Inlet x ½" Outlet	SP232	**3RVH5**
Stay Open Ball Valve with Push Flag, Stainless Steel, ½" Inlet x ¼" Outlet	SP228	**9PX07**



Guardian Bradley

Haws

Thermostatic Mixing Valves and Temperature Control Valves

Consult fixture operation and maintenance manual to identify correct mixing and control valve requirements.

Description	Brand	Mfr. Model	Item No.
Thermostatic Mixing Valves			
0.5 to 6 gpm at 30 psi	Guardian	G3600LF	**38NJ20**
7 gpm at 30 psi	Bradley	S19-2000	**4YF93**
12 gpm at 30 psi	Haws	9201EFE	**16D416**
26 gpm at 30 psi	Bradley	S19-2100	**4YF95**
31 gpm at 30 psi	Haws	9201E	**16D415**
44 gpm at 30 psi	Guardian	G3800LF	**38NJ22**
54 gpm at 30 psi	Bradley	S19-2200	**4YF96**
78 gpm at 30 psi	Haws	9202E	**16D418**
Temperature Control Valves			
Freeze Kit for Eyewash	Bradley	S45-1986	**3DUT9**
Freeze Kit for Drench Shower	Bradley	S45-1987	**3DUU1**
Scald Kit for Eyewash	Bradley	S45-1989	**3DUU2**
Scald Kit for Drench Shower	Bradley	S45-1990	**3DUU3**



Bradley

Replacement Parts for Bradley® Eye Wash Stations

Visit Grainger.com® to identify model number(s) required.

Description	Mfr. Model	Item No.
Cap Kit	S10-010	**1FBG5**
Cup Strainer	173-025	**1FBF3**
Cup Strainer	173-009	**1FBF5**
Eye Wash Dust Cap	107-371	**1FBE8**
Face Wash Dust Cap	S53-063	**1FBE9**
Inspection Tag	204-421	**1FBG4**
Plastic Eye Wash Bowl	154-058	**1FBF2**
Plastic Handle	S45-123	**1FBD9**
Plastic Handle w/Ball Valve	S45-122	**1FBE1**
Plastic Showerhead	S24-195	**1FBG1**
Plastic Showerhead	S24-196	**1FBG2**
Pull Rod 24" Length	128-156A	**1FBF8**
Pull Rod 45" Length	128-156D	**1FBF9**
Retrofit Dust Cover w/Bowl	S45-1964	**1FBJ3**
Retrofit Dust Cover w/Bowl	S45-2396	**2VYX2**
Stainless Eye Wash Bowl	187-053	**1FBF4**
Stainless Handle	S30-071	**1FBE2**
Stainless Handle	S30-087	**1FBE4**
Stainless Handle	S08-336	**1FBE6**
Stainless Handle w/Ball Valve	S30-070	**1FBE3**
Stainless Handle w/Ball Valve	S30-072	**1FBE5**
Stay Open Ball Valve ½"	S27-282	**1FBE7**
Stay Open Valve w/Lever	S30-059	**1FBF6**
Upper Tank Assembly	133-140	**1FBG3**

Granular Sorbents

Condor®—Absorbent Montmorillonite clay absorbs moisture and neutralizes odors to help reduce hazards. Absorbs most oils, water, grease, and acids.

Oil-Dri®—QuickSorb® smaller clay granules absorb quicker with less product. Premium® maximizes absorption and minimizes dust. Sweeping Compound® nonpetroleum compound is 100% biodegradable and meets all U.S. disposal requirements.

Spill Magic®—Absorbs and disinfects in one step. Fast liquid or semiliquid spill response. Leaves surfaces clean and dry with no residue. Environmentally friendly.

Oil Gator®—Environmentally friendly, all natural, and biodegradable. Absorbs oil or oil-based spills.

DZ-100—Environmentally friendly, all-natural corncob material absorbs cutting oils, grease, water, and other fluids. Not for use with aggressive fluids.

Re-Form™—Environmentally responsible absorbent is virtually dust free and absorbs fluid such as oils, solvents, and lubricants. Small granules leave no stain marks—great for concrete floors and porous surfaces. Made from 100% recycled materials. Not for use with aggressive liquids.

PIG®—Fast-wicking absorbents start soaking up fluids as soon as they touch the spill. Absorb and retain oils, coolants, solvents, and water. Silica-free. LITE-DRI® recycled cellulose is lighter than clay and absorbs up to three times more. Nonabrasive composition does not harm finished floors or machinery. DRI cellulose-based kaolin granules are 100% recycled content. No. 30RD13 is made from 100% #2 vermiculite. It is an excellent choice as an absorbent cushioning for overpack shipment, as it adds very little weight to the shipping container and flows into cracks and crevices to create a snug fit between the container and overpack.

Description	Volume Absorbed Per Pkg.	Brand	Mfr. Model	Item No.
Condor®				
25 lb. Bag	2.1 gal.	Condor	—	**35UX85**
40 lb. Bag	3.5 gal.	Condor	—	**35UX86**
50 lb. Bag	4.4 gal.	Condor	—	**35UX87**
Oil-Dri®				
QuickSorb® 25 lb. Bag	3 gal.	Oil-Dri	I05025-G70	**24X071**
QuickSorb® 20 lb. Pail	2.5 gal.	Oil-Dri	I05000G-G60	**5TP99**
Premium Granular, 8 lb. Bag	0.8 gal.	Oil-Dri	I01008-G78	**24X070**
Premium Granular, 32 qt. Bag	3.2 gal	Oil-Dri	I06032	**487F13**
Sweeping Compound, 50-lb. Bag	—	Oil-Dri	L91050-G40	**2NZG9**
Spill Magic™				
Liquid Spill Pickup, 3-lb. Bottle	1 gal.	Spill Magic	SM202DB	**437J98**
Liquid Spill Pickup, 10-lb. Bag	3.2 gal.	Spill Magic	97110	**437J92**
Liquid Spill Pickup, 25-lb. Bag	8 gal.	Spill Magic	97125	**437J91**
Oil Gator®				
30 lb. Bag	2 to 6 gal.	SPC	GS-10	**2VYX1**
DZ-100				
40 lb. Bag	8.5 gal.	SPC	DZ100-SGL	**3RPP6**
Re-Form™				
30 lb. Bag	16.7 gal.	SPC	RFGRANULAR-SGL	**15U827**
PIG®				
Lite-Dri®; Speedy Dry; Speed Dry; Speedy Dri Loose Absorbent, 22 lb. Bag	8 gal.	Pig	PLP201	**30RC91**
DRI Loose Absorbent, (4) 5 lb. Bottles	2.5 gal.	Pig	PLP219	**30RC96**
DRI Loose Absorbent, 40 lb. Bag	5 gal.	Pig	PLP213-1	**30RC93**
Loose Packing Absorbent, 18 lb. Bag	5.7 gal.	Pig	PLP206	**30RD13**
Loose Cob Absorbent, 25 lb. Bag	12.5 gal.	Pig	PLP216	**30RC94**
Peat Absorbent	8 gal.	Pig	PLP404	**30RC99**



No. 35UX86



No. 24X070



No. 2NZG9



No. 437J91



No. 2VYX1



No. 15U827



No. 30RC91



No. 30RD13

Natural Mineral Sorbents

Environmentally friendly sorbents provide superior absorptive abilities to clean up water, oil, and grease.

EP Minerals® Diatomaceous Earth— Multipurpose absorbent for quick-and-easy cleanup of liquid spills. Effective on oil, fuel, solvents, and water. Absorbs 50% more than traditional clay sorbents.

Oil-Dri® Montmorillonite Clay— Maximizes absorption and minimizes dust. All-purpose natural sorbent is nonflammable. Quickly picks up most acids, oils, water, and grease.



No. 6RKJ5

No 487F15

Description	Volume Absorbed Per Pkg.	Mfr. Model	Item No.
EP Minerals®			
OptiSorb® Diatomaceous Earth, 25 lb. Bag	2.8 gal. (Water)/3.0 gal. (Oil)	8925	**6RKJ5**
Oil-Dri®			
Premium Granular Montmorrillonite Clay, 40 qt. Bag	4.2 gal.	I05040	**487F15**

Pro's Choice® Sports Field Sorbents

Red Field Conditioner is designed to meet the challenges of wet, dry, or compacted infields. Durable calcined clay granules create passageways for drainage and eliminate compaction for truer bounces and safer play.

Rapid Dry® drying agent features sand-like granules that quickly wick away excess water from the infield, keeping games playing safely and without delay.



No. 44Z110

No. 44Z111

Description	Volume Absorbed Per Pkg.	Mfr. Model	Item No.
Red Field Conditioner, 50 lb. Bag	4.5 gal.	A45201-G40	**44Z110**
Rapid Dry® Drying Agent, 50 lb. Bag	8 gal.	A45216-G40	**44Z111**


No. 35ZP89


No. 35ZR30

Condor

Universal Sorbent Pads and Rolls

All-purpose cleanup products provide a cost-effective, basic solution for wipes, drips, and leaks of oils, coolants, solvents, and water-based fluids. Suitable for use around machinery, under leaky pipes, in messy traffic areas, and for general maintenance. Gray color.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Item No.	Pkg. Qty.
Absorbent Pads					
Light	9 gal.	15"	19"	**35ZP91**	50
	18 gal.	15"	19"	**35ZP89**	100
	36 gal.	15"	19"	**35ZP90**	200
Medium	11 gal.	15"	19"	**35ZP93**	50
	22 gal.	15"	19"	**35ZP92**	100
Heavy	14 gal.	15"	19"	**35ZP88**	50
	28 gal.	15"	19"	**35ZP87**	100
Absorbent Rolls					
Light	12.5 gal.	15"	150 ft.	**35ZR24**	1
	25 gal.	15"	300 ft.	**35ZR26**	1
	25 gal.	30"	150 ft.	**35ZR28**	1
	50 gal.	30"	300 ft.	**35ZR30**	1
Medium	16.5 gal.	15"	150 ft.	**35ZR25**	1
	33 gal.	30"	150 ft.	**35ZR29**	1
Heavy	19 gal.	15"	150 ft.	**35ZR23**	1
	38 gal.	30"	150 ft.	**35ZR27**	1


No. 35ZR08


No. 35ZR44

Condor

Oil-Only Sorbent Pads and Rolls

Specialized material absorbs hydraulic oil, motor oil, brake fluid, cooking oil, turpentine, and other oil-based fluids. Floats indefinitely without absorbing water. White color.

Absorbency Weight	Volume Absorbed Per Pkg.	W	L	Item No.	Pkg. Qty.
Absorbent Pads					
Light	11 gal.	15"	19"	**35ZR08**	50
	21.5 gal.	15"	19"	**35ZR06**	100
	43 gal.	15"	19"	**35ZR07**	200
Medium	13 gal.	15"	19"	**35ZR10**	50
	26 gal.	15"	19"	**35ZR09**	100
Heavy	16.5 gal.	15"	19"	**35ZR05**	50
	33 gal.	15"	19"	**35ZR04**	100
Absorbent Rolls					
Light	12.5 gal.	15"	150 ft.	**35ZR38**	1
	25 gal.	15"	300 ft.	**35ZR40**	1
	25 gal.	30"	150 ft.	**35ZR42**	1
	50 gal.	30"	300 ft.	**35ZR44**	1
Medium	16.5 gal.	15"	150 ft.	**35ZR39**	1
	33 gal.	30"	150 ft.	**35ZR43**	1
Heavy	19 gal.	15"	150 ft.	**35ZR37**	1
	38 gal.	30"	150 ft.	**35ZR41**	1


No. 35ZP95


No. 35ZR32

Condor

Chemical Sorbent Pads and Rolls

Provide excellent spill response for chemicals including citric acid, hydrofluoric acid, and sodium hydroxide. Yellow color.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Item No.	Pkg. Qty.
Absorbent Pads					
Light	7.2 gal.	15"	19"	**35ZP97**	50
	14.4 gal.	15"	19"	**35ZP96**	100
Medium	9 gal.	15"	19"	**35ZP99**	50
	18 gal.	15"	19"	**35ZP98**	100
Heavy	11 gal.	15"	19"	**35ZP95**	50
	22 gal.	15"	19"	**35ZP94**	100
Absorbent Rolls					
Light	13 gal.	15"	150 ft.	**35ZR32**	1
	26 gal.	30"	150 ft.	**35ZR35**	1
Medium	17.25 gal.	15"	150 ft.	**35ZR33**	1
	34.5 gal	30"	150 ft.	**35ZR36**	1
Heavy	20 gal.	15"	150 ft.	**35ZR31**	1
	40 gal.	30"	150 ft.	**35ZR34**	1


No. 35ZR53


No. 35ZR13


No. 35ZR02

Condor

Sorbent Socks, Pillows, and Drum Top Pads

Flexible absorbent products can be shaped and positioned exactly where needed to soak up fluids. Tube-shaped socks conform to corners and uneven surfaces to collect spills and drips. Pillows are great for use under spill pallets or machines, and in hard-to-reach areas such as sumps and catch basins. Drum top pads help eliminate messy drips and overflow when mixing or pumping liquids from a drum barrel.

Volume Absorbed per Pkg.	Dia.	L	Color	Item No.	Pkg. Qty.
Absorbent Socks					
Universal					
4 gal.	3"	4 ft.	Gray	**35ZR48**	4
10 gal.	3"	10 ft.	Gray	**35ZR45**	4
10 gal.	3"	20 ft.	Gray	**35ZR47**	2
12 gal.	3"	4 ft.	Gray	**35ZR49**	12
30 gal.	3"	10 ft.	Gray	**35ZR46**	12
40 gal.	3"	4 ft.	Gray	**35ZR50**	40
Oil-Based Liquids					
4 gal.	3"	4 ft.	White	**35ZR63**	4
10 gal.	3"	10 ft.	White	**35ZR60**	4
10 gal.	3"	20 ft.	White	**35ZR62**	2
12 gal.	3"	4 ft.	White	**35ZR64**	12
30 gal.	3"	10 ft.	White	**35ZR61**	12
Chemical, Hazmat					
4 gal.	3"	4 ft.	Green	**35ZR56**	4
10 gal.	3"	10 ft.	Green	**35ZR53**	4
10 gal.	3"	20 ft.	Green	**35ZR55**	2
12 gal.	3"	4 ft.	Green	**35ZR57**	12
30 gal.	3"	10 ft.	Green	**35ZR54**	12

Volume Absorbed per Pkg.	W	L	Color	Item No.	Pkg. Qty.
Absorbent Pillows					
Universal					
8 gal.	8½"	17"	Gray	**35ZR16**	5
10 gal.	21"	17"	Gray	**35ZR13**	5
18 gal.	8½"	17"	Gray	**35ZR14**	10
20.4 gal.	21"	17"	Gray	**35ZR11**	10
36 gal.	8½"	17"	Gray	**35ZR15**	20
41 gal.	21"	17"	Gray	**35ZR12**	20
Oil-Based Liquids					
8 gal.	8½"	17"	White	**35ZR22**	5
18 gal.	8½"	17"	White	**35ZR20**	10
36 gal.	8½"	17"	White	**35ZR21**	20
Chemical, Hazmat					
8 gal.	8½"	17"	Green	**35ZR19**	5
18 gal.	8½"	17"	Green	**35ZR17**	10
36 gal.	8½"	17"	Green	**35ZR18**	20
Absorbent Drum Top Pads					
Universal					
6 gal.	22" dia.	22" dia.	Gray	**35ZR01**	25
Oil-Based Liquids					
6 gal.	22" dia.	22" dia.	White	**35ZR03**	25
Chemical, Hazmat					
6 gal.	22" dia.	22" dia.	Gray	**35ZR02**	25

Condor

Marine Sorbent Booms

Absorbent booms soak up oil or create a barrier in holding ponds to retain waste and debris. Made for high absorbency and rapid deployment in emergency cleanup or containment of oil spills on water.


No. 35ZR65

Volume Absorbed Per Pkg.	Dia.	L	Color	Item No.	Pkg. Qty.
Universal					
32 gal.	5"	10 ft.	Gray	**35ZR51**	4
65 gal.	8"	10 ft.	Gray	**35ZR52**	4
Oil-Based Liquids					
32 gal.	5"	10 ft.	Light Blue/White	**35ZR65**	4
65 gal.	8"	10 ft.	Light Blue/White	**35ZR66**	4
Chemical, Hazmat					
32 gal.	5"	10 ft.	Gray	**35ZR58**	4
65 gal.	8"	10 ft.	Gray	**35ZR59**	4

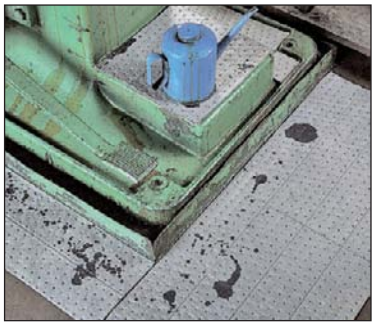
Grippy® Absorbent Mats


No. 30PZ37

Full-coverage adhesive backing holds tight without shifting or sliding. 8-layer fine-fiber polypropylene absorbs oils, coolants, water, gasoline, solvents, battery acid, and most other fluids. Backing creates a liquidproof barrier to keep benches and floors completely dry, and peels up easily for quick changeouts. Tough spunbound top layer has zigzag stitching for durability. Dark color hides grime. Trims easily to fit. High-traction surface helps reduce slip and trip hazards around workstations, walkways, and machinery.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat							
Medium	1 gal.	16"	24"	Blue	MAT3200	**30PZ35**	10
Absorbent Rolls							
Medium	1.31 gal.	16"	25 ft.	Blue	MAT1625	**30PZ32**	1
Medium	2.625 gal.	16"	50 ft.	Blue	MAT1650	**30PZ34**	1
Medium	4 gal.	36"	5 ft.	Black	GRP36202-BK	**40CH74**	10
Medium	4 gal.	36"	50 ft.	Black	GRP36201-BK	**40CH73**	1
Medium	4 gal.	36"	50 ft.	Gray	GRP36201-GY	**45GN71**	1
Medium	5.25 gal.	32"	50 ft.	Blue	MAT3250	**30PZ41**	1
Medium	8 gal.	36"	100 ft.	Black	GRP36200-BK	**40CH72**	1
Medium	8 gal.	36"	100 ft.	Gray	GRP36200-GY	**45GN70**	1
Medium	10.5 gal.	32"	100 ft.	Blue	MAT32100	**30PZ37**	1
Medium	11.5 gal.	36"	100 ft.	Black	MAT3223	**30PZ40**	1

Rip & Fit Mat Rolls



Customizable perforated mat can be torn to fit and used unfolded to cover wide aisles and walkways or folded for increased absorbency. Mat is perforated every 3¾" across width and every 10" along length. 8-layer 100% polypropylene PIG Mat is tough and highly absorbent.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.
Heavy	7.8 gal.	15"	60 ft.	Gray	MAT242	**30PY61**
Heavy	19.6 gal.	15"	150 ft.	Gray	MAT243	**30PY62**

Elephant Pads and Rolls



Highly absorbent 8-layer universal PIG Mat is zigzag-stitched for excellent durability in heavy foot traffic and light wheeled traffic. Exclusive dimple pattern and fine-fiber construction speed wicking and retention of oils, coolants, solvents, and water. 95% polypropylene and 5% polyester material.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Medium	12.6	16½"	20"	Gray	MAT286	**30PZ65**	100
Absorbent Mat Pads in Dispenser Box							
Medium	12.6	16½"	20"	Gray	MAT169	**30PZ49**	100
Absorbent Rolls							
Medium	11.6	33"	75 ft.	Gray	MAT256	**30PZ58**	1
Medium	23	16½"	150 ft.	Gray	MAT265	**30PZ59**	2
Medium	23	33"	150 ft.	Gray	MAT234	**30PV68**	1

4 in 1® Absorbent Mats


No. 30PZ80

Tough, highly absorbent PIG Mats can handle a variety of leaks, drips, and spills and simplify your stockroom. Use as a pad for drips and spills; rolled out to cover large areas; folded along score lines to make a thick, absorbent sock; or torn along score lines for use as a low-lint wiper. Scuff-resistant, spunbound outer layer resists wear and tear under foot traffic and abrasive conditions. Universal matting absorbs oils, coolants, solvents, and water. Oil-Only matting absorbs oils and oil-based liquids but not water.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.
Universal						
Medium	9.2 gal.	16"	80 ft.	Gray	MAT284	**30PV63**
Medium	17.4 gal.	16"	150 ft.	Gray	MAT235	**30PV70**
Oil-Only						
Medium	9.2 gal.	16"	80 ft.	White	MAT484	**30PZ80**
Medium	17.4 gal.	16"	150 ft.	White	MAT435	**30PZ79**




No. 30PZ05



No. 30RC12

Blue® Absorbent Mats and Socks

Pads, Rolls, and Drum Top Mats—Superabsorbent natural fibers are fused with strong synthetics to soak up big spills and leaks with fewer change-outs. Absorbs oils, coolants, solvents, and water; not recommended for acids, bases, or other corrosive liquids. Easy-tear perforations. Contains 75% preconsumer recycled cellulose.

Socks—Heavyweight, extra-absorbent socks are filled with vermiculite to hug floors, provide an effective barrier, and stop spills from spreading. Absorb most industrial liquids including oils, water, solvents, and coolants.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Light	24 gal.	15"	19"	Light Blue	BLU100	**30PZ05**	100
Heavy	34 gal.	15"	19"	Light Blue	BLU101	**30PY99**	100
Absorbent Mat Pads In Dispenser Box							
Light	12 gal.	15"	19"	Light Blue	BLU107	**30PZ08**	50
Heavy	17 gal.	15"	19"	Light Blue	BLU106	**30PZ03**	50
Absorbent Rolls							
Light	20.5 gal.	15"	150 ft.	Light Blue	BLU105	**30PZ07**	1
Light	41 gal.	30"	150 ft.	Light Blue	BLU104	**30PZ06**	1
Heavy	32 gal.	15"	150 ft.	Light Blue	BLU103	**30PZ02**	1
Heavy	64 gal.	30"	150 ft.	Light Blue	BLU102	**30PZ01**	1
Absorbent Roll in Dispenser Box							
Heavy	10.7 gal.	15"	50 ft.	Light Blue	BLU108	**30PZ04**	1
Absorbent Drum Top Mats							
Light	12 gal.	22" dia.	—	Light Blue	BLU255	**30RA85**	25
Absorbent Socks							
—	9 gal.	1½" dia.	2 ft. 5"	Blue	MA1097	**30RC10**	50
—	9 gal.	3" dia.	4 ft.	Blue	PIG238	**30RC15**	12
—	30 gal.	3" dia.	4 ft.	Blue	4048	**30PV71**	40
—	14.88 gal.	3" dia.	10 ft.	Blue	PIG202	**30RC12**	8
—	32 gal.	5" dia.	10 ft.	Blue	PIG217	**30RC14**	4





No. 30PV56

No. 30PV67



No. 30PX34

Universal Sorbents

Pads, Pillows, Rolls, and Drum Top Mats—Flame-resistant, thermally bonded, 8-layer 100% polypropylene material will not rip, tear, or fray, even when saturated. Exclusive dimple pattern speeds wicking of liquid for faster, easier cleanup of oils, coolants, solvents, and water. Easy-tear perforations help reduce waste, and the material can be wrung out and incinerated after use to reduce waste or blend fuels.

Socks—Formable socks hug corners to control everyday leaks and can surround machine bases to absorb machine leaks, contain puddles, and help keep your workers safe. Tear-resistant polypropylene skin contains organic cellulose material to effectively absorb most common industrial liquids including oils, water, solvents, and coolants.

Ceiling Tile Pads—8-layer pad with polypropylene backing prevents minor drips from discoloring or destroying ceiling tiles.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Pads							
Light	22 gal.	15"	20"	Gray	MAT204	**30PV61**	200
Medium	21.7 gal.	15"	20"	Gray	MAT412	**30PV58**	125
Heavy	22 gal.	15"	20"	Gray	MAT203	**30PV56**	100
Absorbent Pads In Dispenser Box							
Light	11 gal.	15"	20"	Gray	MAT155	**30PY95**	100
Light	22 gal.	15"	20"	Gray	MAT135	**30PY92**	200
Medium	17.2 gal.	15"	20"	Gray	MAT154	**30PY72**	100
Medium	21.7 gal.	15"	20"	Gray	MAT139	**30PY70**	125
Heavy	10 gal.	10"	13"	Gray	MAT251	**30PY63**	100
Heavy	18.1 gal.	16"	20"	Gray	MAT173	**30PY76**	100
Heavy	22 gal.	15"	20"	Gray	MAT240	**30PV54**	100
Heavy	22 gal.	15"	20"	Yellow	MAT605	**30RA04**	100
Absorbent Boom							
—	30 gal.	3" dia.	4 ft.	Gray	PIG228	**30RC22**	40
Absorbent Pillows							
—	20 gal.	10"	10"	Gray	PIL204	**30RC74**	40
—	32 gal.	17"	21"	Gray	PIL201	**30RC73**	16
Perforated Absorbent Rolls							
Light	32.4 gal.	24"	300 ft.	Gray	MAT245	**30PV73**	1
Light	40.2 gal.	30"	300 ft.	Gray	MAT225	**30PV66**	1

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Medium	31.9 gal.	30"	150 ft.	Gray	MAT153	**30PY71**	1
Medium	32 gal.	15"	150 ft.	Gray	MAT2009	**30PY89**	2
Medium	42.5 gal.	30"	200 ft.	Gray	MAT411	**30PV59**	1
Heavy	18.4 gal.	16"	150 ft.	Gray	MAT176	**30PY79**	1
Heavy	32.4 gal.	24"	150 ft.	Gray	MAT202-01	**30PV69**	1
Heavy	36.8 gal.	32"	150 ft.	Gray	MAT175	**30PY78**	1
Heavy	40.2 gal.	15"	150 ft.	Gray	MAT220	**30PV72**	2
Heavy	40.2 gal.	30"	150 ft.	Gray	MAT230	**30PV55**	1
Perforated Absorbent Rolls In Dispenser Box							
Heavy	9.8 gal.	15"	75 ft.	Gray	MAT140	**30PY47**	1
Absorbent Drum Top Mats							
Light	3.5 gal.	22" dia.	—	Gray	MAT244	**30RA79**	25
Heavy	4.9 gal.	18" dia.	—	Gray	MAT237	**30RA78**	25
Heavy	6.9 gal.	22" dia.	—	Gray	MAT208	**30RA77**	25
Absorbent Socks							
—	13.75 gal.	3" dia.	8 ft.	Gray	PIG209	**30RC04**	16
—	15 gal.	2" dia.	3 ft. 6"	Gray	PIG205	**30RC03**	60
—	20 gal.	3" dia.	3 ft. 6"	Gray	404	**30PV67**	40
Ceiling Tile Pads							
Heavy	5.9 gal.	23"	24"	Gray	TLS665	**30PX34**	20
Heavy	5.9 gal.	23"	48"	Gray	TLS666	**30PX35**	10

Ham-0® Absorbent Pads and Rolls



No. 30PZ86



No. 30PZ89

Distinctive camouflage top conceals absorbed leaks and drips. Scuff-resistant top layer stands up to foot traffic in aisles and walkways. Absorbs oils, coolants, solvents, and water.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Heavy	26.1 gal.	16"	20"	Green/Tan	MAT268	**30PZ86**	100
Absorbent Rolls							
Heavy	47.4 gal.	16"	150 ft.	Gray/Black	MAT115	**30PZ88**	2
Heavy	47.4 gal.	32"	150 ft.	Gray/Black	MAT116	**30PZ89**	1

Stat-Mat® Absorbent Pads and Roll



No. 30RA44



No. 30RA46

Clean up spilled fuels and solvents with pads that dissipate static. Absorb and retain oils and fuels, including acetone, benzene, gasoline, toluene, xylene, mineral spirits, and jet fuels; does not absorb water. Pads and roll pass NFPA 99 Standards for static decay and surface resistivity.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Light	22 gal.	15"	20"	White	MAT215	**30RA45**	200
Heavy	22 gal.	15"	20"	White	MAT214	**30RA44**	100
Absorbent Roll							
Heavy	40.2 gal.	30"	150 ft.	White	MAT402	**30RA46**	1



No. 30PY55



No. 30PY56

Fat Mat® Absorbent Pads and Roll

Double-thick mat has 16 layers of 100% polypropylene that are thermally bonded to form a super-absorbent mat. Spunbond top layer stands up to heavy foot traffic; won't rip, tear, fray, or create a trip hazard, even when saturated. Absorb most common industrial liquids such as oils, water, solvents, coolants, and more.

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Heavy	22 gal.	16"	20"	Gray	MAT2101	**30PY55**	50
Absorbent Roll							
Heavy	40 gal.	32"	75 ft.	Gray	MAT2102	**30PY56**	1



Water-Absorbing Sock

Super absorbent polymer (SAP) technology locks water-based liquids inside sock to avoid additional leakage; saves time and money in cleanup efforts. Ideal for use with water-based, nonaggressive liquids.

Volume Absorbed per Pkg.	Dia.	L	Color	Mfr. Model	Item No.	Pkg. Qty.
61 gal.	3"	4 ft.	Blue	PIG233	**30RC20**	40

Oil-Only Sorbents

Sorbents clean up oils and oil-based liquids including lubricants and fuels. They float on the surface of water for easy retrieval. Bright white color draws attention to machine leaks and shows saturation level during spill response.

Pads and Rolls—Highly absorbent, fine-fiber construction and exclusive dimple pattern quickly wick oily fluids into the mat for fast, easy cleanup. Strong thermally bonded construction with 8 layers of 100% polypropylene will not rip, tear, or fray, even when wet or saturated. Perforated for cost-saving right-sized use. Flame-resistant material melts instead of burning; can be wrung out and incinerated after use. Available in a grime-hiding brown color for extended service life.

Booms—Booms confine and soak up oily fluids. Rope along the length of the boom withstands up to 400-lb. loads, adding strength for deployment and retrieval. Feature a UV-resistant polyester mesh outer skin and zinc-plated carbon steel attachment clips and rings to easily link them together. Can be incinerated after use.

Booms have polypropylene pulp filler within a polyester inner skin. Recommended for water or land use. They hug the ground for land-based spills.

Spaghetti Booms have 100% polyester spaghetti-strip filler that's great to pull in thick oil such as crude or use in fast-moving waters. Not recommended for use on land.

Socks—Polypropylene skin resists tearing; reduces dust and holds in liquid even when saturated. Nos. 30RC52 and 30RC53 Skimmer socks skim oil from chemical baths in open-top dip tanks. No 30RC43 outdoor sock is UV-resistant up to one year, and abosorbs leaks on land. No. 30RC45 Sheen Clean® sock cleans up the thin, oily residue floating on water that other absorbents leave behind. No. 30RC55 indoor sock is for use where UV rays aren't a factor, with an economical design for general daily use.



No. 30PV57



No. 30PV60



No. 30RA94



No. 30PV62



No. 30RC32



No. 30RC23



No. 30RC52

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Light	22 gal.	15"	20"	White	MAT423	**30PV64**	200
Medium	18 gal.	15"	20"	White	MAT455	**30RA31**	100
Heavy	11 gal.	15"	20"	White	MAT415	**30RA15**	50
Heavy	22 gal.	15"	20"	White	MAT403	**30PV57**	100
Heavy	33.3 gal.	30"	30"	White	MAT426	**30RA18**	50
Absorbent Mat Pads In Dispenser Box							
Light	22 gal.	15"	20"	White	MAT485	**30RA41**	200
Medium	17 gal.	15"	20"	White	MAT454	**30RA30**	100
Heavy	22 gal.	15"	20"	White	MAT440	**30PV60**	100
Absorbent Ground Mat with Grommets							
Heavy	12 gal.	120"	120"	Black	MAT445	**30RA94**	1
Perforated Absorbent Rolls							
Light	9 gal.	10"	100 ft.	White	MAT427	**30RA37**	2
Light	20.1 gal.	30"	150 ft.	White	MAT462	**30RA39**	1
Light	40.2 gal.	30"	300 ft.	White	MAT419	**30RA36**	1
Medium	16.5 gal.	15"	150 ft.	White	MAT446	**30RA29**	1
Medium	32 gal.	30"	150 ft.	White	MAT458	**30RA32**	1
Medium	42.5 gal.	30"	200 ft.	White	MAT461	**30RA34**	1
Heavy	40.2 gal.	30"	150 ft.	White	MAT401	**30PV62**	1
Heavy	32.4 gal.	24"	150 ft.	White	MAT424	**30RA16**	1

Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Booms						
16 gal.	3"	10 ft.	White	BOM406	**30RC32**	8
24 gal.	5"	10 ft.	White	BOM405	**30RC31**	4
24 gal.	8"	10 ft.	White	BOM400	**30RC27**	2
48 gal.	8"	10 ft.	White	BOM304	**30RC26**	4
48 gal.	8"	20 ft.	White	BOM409	**30RC35**	2
Absorbent Spaghetti Booms						
16 gal.	3"	10 ft.	White	BOM204	**30RC25**	8
24 gal.	5"	10 ft.	White	BOM203	**30RC24**	4
48 gal.	8"	10 ft.	White	BOM202	**30RC23**	4
48 gal.	8"	20 ft.	White	BOM402	**30RC28**	2
Absorbent Socks						
10 gal.	3"	4 ft.	White	104PS	**30RC52**	10
12 gal.	3"	4 ft.	White	SKM210	**30RC43**	12
15 gal.	3"	10 ft.	White	SKM203	**30RC53**	6
15 gal.	3"	10 ft.	White	SKM601	**30RC45**	6
30 gal.	3"	4 ft.	Tan	SKM500	**30RC55**	30

Chemical Sorbents

Absorb and retain a wide range of acids, bases, corrosives, and unknown liquids—including high concentrations such as 98% sulfuric acid and 30% sodium hydroxide. Easily recognized pink color helps assure correct mat is used in an emergency.

Pads and Roll—Chemical-resistant mat resists reaction to corrosive spills. Heavyweight, highly durable pads and rolls feature 8 layers of 100% polypropylene thermally bonded for strength.

Acid Encapsulating and Neutralizing Absorbent Mat Pads—Absorb, encapsulate, and neutralize corrosives in one easy step for safer spill cleanup. Color of mat changes as liquids are taken in, then returns to normal when neutralization is complete; helps identify the best time to handle with the least amount of risk.

Pillows—Offers more absorbency for large chemical cleanups. Features a large surface area, high capacity, and fast-wicking filler to quickly soak up liquids.

Socks—Contain and absorb spreading spills; excellent for quickly diking and stopping the spread of smaller chemical spills. Can be incinerated after use to reduce waste.



No. 30RA52





No. 30RA91



No. 30RC47

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Mat Pads							
Light	22 gal.	15"	20"	Pink	MAT302	**30RA50**	200
Heavy	9.8 gal.	10"	13"	Pink	MAT351	**30RA59**	100
Heavy	22 gal.	15"	20"	Pink	MAT301	**30PV65**	100
Absorbent Mat Pads in Dispenser Box							
Heavy	22 gal.	15"	20"	Pink	MAT354	**30RA61**	100
Perforated Absorbent Roll							
Heavy	40.2 gal.	30"	150 ft.	Pink	MAT309	**30RA52**	1

Absorbency Weight	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Acid Encapsulating and Neutralizing Absorbent Mat Pads							
Light	0.63 gal.	11"	12"	Mauve	MAT304	**30RA91**	25
Absorbent Pillows							
—	10 gal.	17"	16"	Pink	HR7015	**30RC85**	10
Absorbent Socks							
—	9 gal.	3" dia.	3 ft. 10"	Pink	124CR	**30RC46**	12
—	12 gal.	3" dia.	10 ft.	Pink	PIG301	**30RC48**	6
—	18 gal.	5" dia.	10 ft.	Pink	HA1010	**30RC47**	2



No. 2GU49



No. 5UZ30



No. 5UZ62

Industrial Universal Sorbent Mats

Ideal for areas with heavy foot and forklift traffic. All handle industrial spills and provide sure footing.

Heavy-Traffic—Highly absorbent, dimpled, 2-ply polypropylene matting for oil, solvents, and water-based fluids.

BattleMat®—Abrasion-resistant upper 2-ply construction mat absorbs oil, solvents, and water-based fluids. Camouflage design hides stains and drips.

Barrier Spill Mat™ (BSM)—3-ply needle punched polypropylene material with a nonstick backing prevents fluids from penetrating to the floor. Absorbs water, oil, and chemicals.

Sorbent Industrial Rug™ (SIR)—100% nonwoven needle punched polypropylene fibers handle the most aggressive liquids. Helps eliminate tracking between plant and office areas.

RAG RUG—Economical mat made of recycled cotton and polyester fibers. Absorbs water- and solvent-based fluids and oil.

Description	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Heavy-Traffic							
Roll, Heavyweight, Triple Perforated	8 gal.	15"	50 ft.	Gray	HT550	**5TZX0**	1
Roll, Heavyweight, Triple Perforated	23 gal.	15"	150 ft.	Gray	HT555	**5TZX2**	1
Roll, Mediumweight, Perforated	32 gal.	15"	300 ft.	Gray	HT153	**4DNA9**	1
Heavyweight, Double Perforated	47 gal.	30"	150 ft.	Gray	HT30	**2GU48**	1
Roll, Mediumweight, Double Perforated	63 gal.	30"	300 ft.	Gray	HT303	**2GU49**	1
BattleMat®							
Heavyweight, Double Perforated	25 gal.	15"	150 ft.	Gray Camo	BM15	**5UZ30**	1
Heavyweight, Double Perforated	52 gal.	30"	150 ft.	Gray Camo	BM30	**5UZ31**	1
Heavyweight, Pads, Perforated	28 gal.	15"	19"	Gray Camo	BM100-2	**436M65**	50
Heavyweight, Pads, Perforated	28 gal.	15"	19"	Gray Camo	BM100	**15U855**	100
Barrier Spill Mat™ (BSM)							
Heavyweight, Poly-Backed	25 gal.	36"	100 ft.	Black	BSM100	**5UZ32**	1
Sorbent Industrial Rug™ (SIR)							
Heavyweight	59 gal.	36"	300 ft.	Gray	SIR36	**1AD80**	1
Heavyweight	59 gal.	72"	150 ft.	Gray	SIR72	**15U887**	1
RAG RUG							
Economy (Recycled)	55 gal.	36"	150 ft.	Blue/Gray	RAG36150	**5UZ62**	1

No. 5UZ53



Sorbent SOCs

For routine spill containment and control. SOCs mold around machines and conform to uneven surfaces.

Cobra Coil® Universal—Diking SOC filled with vermiculite sorbent used for most fluids.

ALLWIK® Universal—All-purpose polypropylene suitable for most industrial applications. Wringable and incinerable.

SLIKWIK® Universal—Corncob-filled SOC used for all nonaggressive fluids.

Basic Universal—Economical absorbent SOCs filled with a cellulose fill. For use with most nonaggressive fluids.

Oil-Only—100% polypropylene repels water or water-based solutions.

HAZWIK® Chemical—Polypropylene SOC for use with aggressive fluids. Color-coded green for safety.

Volume Absorbed Per Pkg.	Dia.	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Cobra Coil® Universal						
8 gal.	3"	4 ft.	Blue	CC400	**2KFC8**	12
ALLWIK® Universal						
12 gal.	3"	4 ft.	Gray	AW412	**5FZ77**	12
12 gal.	3"	8 ft.	Gray	AW806	**5FZ78**	6
12 gal.	3"	12 ft.	Gray	AW124	**5FZ79**	4
SLIKWIK®						
20 gal.	3"	3 ft. 6"	Gray	SW46	**5UZ75**	40
Basic Universal						
40.6 gal.	—	3 ft. 6"	Gray	BSC20	**42X757**	20
80 gal.	—	3 ft. 6"	Gray	BSC40	**42X758**	40
Oil-Based Liquids						
12 gal.	3"	4 ft.	White	OIL412	**5UZ55**	12
12 gal.	3"	8 ft.	White	OIL806	**5UZ56**	6
12 gal.	3"	12 ft.	White	OIL124	**5UZ53**	4
28 gal.	3"	4 ft.	White	OIL430	**3RPV6**	30
HAZWIK® Chemical, Hazmat						
12 gal.	3"	4 ft.	Green	HAZ412	**5UZ45**	12
12 gal.	3"	12 ft.	Green	HAZ124	**5TZW0**	4



No. 5UZ54



No. 5FZ83

Pillows and Drum Top Pads

Absorbent Pillows—Absorb spills and leaking fluids. Combine with drip pans for optimum efficiency. Polypropylene filler material.

Absorbent Drum Top Pads—Prevent pump drips from reaching the floor. Precut to fit 55-gal. drums. Keep drum tops and drum storage areas clean.

Description	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Absorbent Pillows							
Universal	28 gal.	18"	18"	Gray	AW1818	**5UZ29**	16
Oil-Based Liquids	15.4 gal.	9"	9"	White	OIL99	**5TZV7**	32
Oil-Based Liquids	14 gal.	18"	18"	White	OIL1818-2	**42X773**	8
Oil-Based Liquids	28 gal.	18"	18"	White	OIL1818	**5UZ54**	16
Chemical, Hazmat	15.4 gal.	9"	9"	Green	HAZ99	**5TZW1**	32
Absorbent Drum Top Pads							
Universal	6 gal.	22" dia.	—	Gray	DTA25	**5FZ83**	25
Oil-Based Liquids	6 gal.	22" dia.	—	White	DTO25	**5UZ34**	25

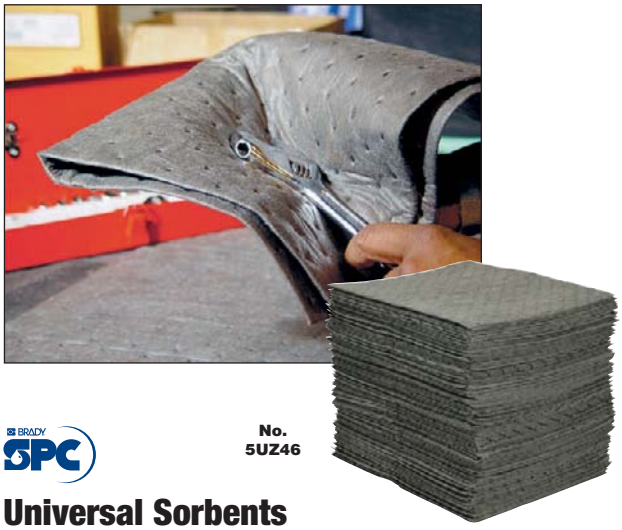


No. 6AJ11

Marine-Duty Sorbents

Designed to clean up oil spills and petroleum-based fluids on water. Premium SPC® Booms are lint free and easy to handle. Economical ENV® booms feature a lint-free blue sleeve. Pillows and Sweep are 2-ply construction with durable blue coverstock for extra strength.

Volume Absorbed Per Pkg.	Dia.	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Booms						
32 gal.	5"	10 ft.	White	SPC510	**6AJ11**	4
32 gal.	5"	10 ft.	Blue	ENV510	**42X764**	4
65 gal.	8"	10 ft.	Blue	ENV810	**5UZ41**	4
71 gal.	8"	10 ft.	White	SPC810	**3AH21**	4
28 gal.	8"	1 ft. 5"	White	SPC818-4	**436N20**	4
Pillows						
52 gal.	14"W	25"	White	SPC 10	**3RPU9**	10
Sweep						
25 gal.	19"W	100 ft.	Blue/White	SPC1900	**5TZW6**	1



No. 5UZ46

Universal Sorbents

Material absorbs all water-, petroleum-, and chemical-based fluids. Available in pads and perforated rolls for accurate dispensing. Gray color.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
UXT, Extra-Tough, 3-Ply						
Pads, Lightweight, Perforated	31.5 gal.	15"	19"	UXT200	**3RPA5**	200
Pads, Mediumweight, Perforated	17 gal.	15"	19"	UXT300	**15U857**	100
Pads, Heavyweight, Perforated	19 gal.	15"	19"	UXT100	**4DNC4**	100
Roll, Heavyweight, Perforated	18 gal.	15"	150 ft.	UXT15P	**3RPA6**	1
Roll, Heavyweight, Double Perforated	37 gal.	30"	150 ft.	UXT30DP	**3RPA7**	1
MRO Plus®, All Purpose, 3-Ply						
Pads, Mediumweight, Perforated	20.5 gal.	15"	19"	MRO300	**1EFN4**	100
Pads, Heavyweight, Perforated	26 gal.	15"	19"	MRO100	**5UZ46**	100
Pads, Heavyweight, Perforated	39 gal.	15"	19"	MRO150DND	**2NCN9** *	150
Pads, Heavyweight, Perforated	13.5 gal.	15"	19"	MRO100-2	**5TZV6**	50
Pads, Heavyweight, Perforated	41 gal.	30"	30"	MRO50	**3RPU2**	50
Roll, Mediumweight	38 gal.	30"	150 ft.	MRO350	**3RRD2**	1
Roll, Mediumweight, Double Perforated	38 gal.	30"	150 ft.	MRO350-DP	**1EFN5**	1
Roll, Heavyweight, Perforated	20 gal.	12"	150 ft.	MRO12P	**3RPA8**	1
Roll, Heavyweight	24 gal.	15"	150 ft.	MRO15	**5UZ47**	1
Roll, Heavyweight, Perforated	24 gal.	15"	150 ft.	MRO15P	**5UZ48**	1
Roll, Heavyweight, Double Perforated	39 gal.	24"	150 ft.	MRO24-DP	**3RPA9**	1
Roll, Heavyweight	49 gal.	30"	150 ft.	MRO30	**5UZ49**	1
Roll, Heavyweight, Perforated	49 gal.	30"	150 ft.	MRO30P	**5UZ50**	1
Roll, Heavyweight, Double Perforated	49 gal.	30"	150 ft.	MRO30-DP	**1HUB9**	1
GP™, General Purpose, 1-Ply						
Pads, Lightweight, Perforated	22 gal.	15"	19"	GP500	**1HUC4**	100
Pads, Lightweight, Perforated	44 gal.	15"	19"	GP200	**1HUB7**	200
Pads, Heavyweight, Perforated	30 gal.	15"	19"	GP100	**1HUB5**	100
Basic 1-Ply						
Pads, Lightweight	17 gal.	15"	17"	BPU500	**15U853**	100
SRP, 3-Ply						
Pads, Heavyweight	5.5 gal.	7½"	10"	SRP100	**42X728**	100
Pads, Heavyweight	11.1 gal.	7½"	10"	SRP200	**42X729**	200
Pad, Heavyweight, Perforated	3.3 gal.	7½"	50 ft.	SRP75P	**42X730**	1

**** Dispense-N-Dispose system with a temporary waste receptacle.***



No. 5UZ36

Oil-Only Sorbents

SXT® and Oil Plus® sorbents are for use in both industrial and environmental applications. Economical SPC® and ENV™ sorbents are made with MAXX™ technology, which is stronger, more absorbent, and wringable. White color.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
SXT®, 3-Ply						
Pads, Lightweight, Perforated	31.5 gal.	15"	19"	SXT200	**2GU47**	200
Pads, Heavyweight, Perforated	19.5 gal.	15"	19"	SXT100	**2GU46**	100
Roll, Heavyweight, Perforated	18 gal.	15"	150 ft.	SXT15P	**3RPA2**	1
Roll, Heavyweight, Double Perforated	37 gal.	30"	150 ft.	SXT30DP	**3RPA3**	1
Oil Plus®, 3-Ply						
Pads, Heavyweight, Perforated	26 gal.	15"	19"	OP100	**5UZ57**	100
Roll, Lightweight, Triple Perforated	12.5 gal.	15"	50 ft.	OP550	**5TZX1**	1
Pads, Lightweight, Perforated	12 gal.	15"	19"	OP100-2	**5TZW3**	50
Pads, Heavyweight, Perforated	41 gal.	30"	30"	OP50	**3RPU4**	50
Roll, Heavyweight	49 gal.	30"	150 ft.	OP30	**3RPU3**	1
Roll, Heavyweight, Perforated	25 gal.	15"	150 ft.	OP15P	**5UZ59**	1
Roll, Heavyweight, Perforated	50 gal.	30"	150 ft.	OP30P	**5UZ61**	1
Roll, Heavyweight, Double Perforated	24 gal.	15"	150 ft.	OP15-DP	**3RPW1**	1
Roll, Heavyweight, Double Perforated	49 gal.	30"	150 ft.	OP30-DP	**3RPW2**	1
SPC® Premium Lint-Free Booms						
Boom	61 gal.	5" dia.	10 ft.	SPC5510	**5TZW5**	2
ENV®, Economical						
Pads, Lightweight	24.5 gal.	15"	19"	ENV500	**1HUC2**	100
Pads, Lightweight	51 gal.	15"	19"	ENV200	**1HUB1**	200
Pads, Mediumweight	23 gal.	15"	19"	ENV300	**1HUB3**	100
Pads, Mediumweight	50 gal.	30"	30"	ENV50	**5UZ40**	50
Roll, Mediumweight	44 gal.	30"	150 ft.	ENV150	**5UZ36**	1
Pads, Heavyweight	33 gal.	15"	19"	ENV100	**1HUA8**	100
SPC®, 1-Ply						
Pads, Lightweight, Perforated	40 gal.	15"	19"	SPC200	**2NCN2**	200
Pads, Mediumweight, Perforated	30 gal.	15"	19"	SPC300	**2NCN3**	100
Pads, Heavyweight, Perforated	35 gal.	15"	19"	SPC100	**2NCN1**	100
Pads, Heavyweight	73 gal.	33"	39"	SPC50	**5TZW2**	50
Roll, Heavyweight	70 gal.	38"	144 ft.	SPC150	**2AJ14**	1
SRP, Spill Response Plus, 3-Ply						
Pads, Heavyweight	5.5 gal.	7½"	10"	SRPO100	**42X734**	100
Pads, Heavyweight	11.1 gal.	7½"	10"	SRPO200	**42X735**	200
Roll, Heavyweight, Perforated	3.3 gal.	7½"	50 ft.	SRPO75P	**42X736**	1
Static-Resistant						
Pad, Heavyweight	26 gal.	15"	19"	SR100	**5TZW7**	100

Chemical Sorbents

Absorb any liquids, including oils, acids, and hazardous chemicals. Available with MAXX™ technology for more absorbency of acids and hazardous chemicals. Will not react to aggressive fluids.

Description	Volume Absorbed per Pkg.	W	L	Color	Mfr. Model	Item No.	Pkg. Qty.
Basic, 1-Ply							
Roll, Perforated	38 gal.	15"	150 ft.	Yellow	BRH152	**436M67**	2
Universal Plus™, 3-Ply							
Pads	20 gal.	12"	12"	Green	SPCUN1113	**5UZ77**	200
Pads, Perforated	20.5 gal.	15"	19"	Green	SPCUN1719	**5UZ78**	100
Roll, Double Perforated	39 gal.	15"	150 ft.	Green	SPCUN1019	**5UZ76**	2
Roll, Double Perforated	39 gal.	30"	150 ft.	Green	SPCUN3800	**3NMP7**	1
Universal Plus™, Booms							
Boom	32 gal.	5" dia.	10 ft.	Green	SPCUN510	**3NMP8**	4
Boom	71 gal.	8" dia.	10 ft.	Green	SPCUN810	**3NMP9**	4
MAXX®, 3-Ply							
Pads, Perforated	7.5 gal.	12"	12"	Yellow	CH1212	**5TZV8**	50
Pads, Perforated	22 gal.	15"	19"	Yellow	CH100	**2NCN4**	100
Roll, Perforated	20 gal.	15"	150 ft.	Yellow	CH15P	**5TZV9**	1
MAXX™, Mediumweight							
Roll, Double Perforated	40 gal.	30"	150 ft.	Yellow	CH30DP	**2NCN5**	1
SRP, Spill Response Plus, 3-Ply							
Pads	5.5 gal.	7½"	10"	Green	SRPH100	**42X731**	100
Pads	11.1 gal.	7½"	10"	Green	SRPH200	**42X732**	200
Roll, Perforated	3.3 gal.	7½"	50 ft.	Green	SRPH75P	**42X733**	1



No. 5UZ77



No. 443T82



No. 443R66



No. 443P63

SpillTech

Universal Sorbents

Use to control leaks, spills, and help keep your workers safe. Rolls and pads can handle heavy wear and foot traffic. Socks and booms are ideal for controlling large spills and leaks.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
Pad, Lightweight, Polyester	3.9 gal.	15"	19"	YPZ25S-BX-EA	**443T84**	25
	15.5 gal.	15"	19"	YPZ100S-BX	**443T82**	100
	31.1 gal.	15"	19"	YPZ200S-BX	**443T83**	200
Roll, Lightweight, Polyester	54 gal.	36"	300 ft.	NPR300S-GR	**443R67**	1
Pad, Mediumweight, Polyester	24.7 gal.	15"	19"	YPZ100M-BX	**443T81**	100
Roll, Mediumweight, Polypropylene	22 gal.	15"	150 ft.	YRSZ150M-1	**443T90**	1
	36.1 gal.	30"	150 ft.	YRZ150M	**443T93**	1
	72.2 gal.	30"	300 ft.	YRZ300M	**443T94**	1
Pad, Heavyweight, Polypropylene	29.1 gal.	15"	19"	YPZ100H-BX	**443T80**	100
Pad, Heavyweight, Polypropylene/Acrylic Fibers	38.9 gal.	18"	18"	RRUGP100H	**443R78**	100
Roll, Heavyweight, Polyester	21.6 gal.	36"	60 ft.	NPR60H-GR	**443R68**	1
	54 gal.	36"	150 ft.	NPR150H-GR	**443R66**	1
Roll, Heavyweight, Polypropylene	23 gal.	33"	150 ft.	MR2069	**443R64**	1
	29.1 gal.	15"	100 ft.	YRZ100H-BX	**443T91**	1
	35.8 gal.	30"	150 ft.	SVR150H	**443R80**	1
	17.9 gal.	15"	150 ft.	SVRS150H-1	**443R81**	1
	35.8 gal.	15"	150 ft.	SVRS150H-2	**443R82**	2
	41.7 gal.	19"	80 ft.	TMAT19	**443R83**	2
	55.2 gal.	30"	150 ft.	YRZ150H	**443T92**	1
Roll, Heavyweight, Polypropylene/Acrylic Fibers	84.6 gal.	18"	150 ft.	RRUG18H	**443R76**	2
Roll, Heavyweight, Polypropylene/Polyethylene	13 gal.	36"	100 ft.	PBR100	**443R69**	1
Sock	25 gal.	—	12 ft.	GSO1210	**443R56**	10
	8.3 gal.	3" dia.	4 ft.	GSO410	**443R57**	10
Boom	23.3 gal.	3" dia.	10 ft.	GB510SN	**443P63**	4
	38 gal.	5" dia.	10 ft.	GB810SN	**443P64**	4



No. 443R92



No. 443R73

SpillTech



No. 443T62

Oil-Only Sorbents

Highly absorbent construction provides effective oil response to leaks, spills, and helps you avoid costly cleanups. Mats and pads are tough enough to stand up to foot and vehicle traffic. Socks are easy to deploy and are ideal for surrounding spilled fluids or wrapping around leaky machines. They're flexible so you can place them around machine bases for a snug fit.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
Pad, Lightweight, Polypropylene	6.3 gal.	15"	19"	WPD50S	**443T08**	50
	15.55 gal.	15"	19"	WPB100S	**443R98**	100
	17.85 gal.	15"	19"	WP100S	**443R94**	100
	28.1 gal.	15"	19"	WPF200S	**443T13**	200
	31.1 gal.	15"	19"	WPB200S	**443R99**	200
Pad, Mediumweight, Polypropylene	12.35 gal.	15"	19"	WPB50M	**443T02**	50
	17 gal.	15"	19"	WPD100M	**443T05**	100
	20.8 gal.	15"	19"	WPF100M	**443T11**	100
	24.7 gal.	15"	19"	WPB100M	**443R97**	100
	26.7 gal.	15"	19"	WP100M	**443R93**	100
Pad, Heavyweight, Polypropylene	4.7 gal.	7½"	10"	WPF7510H-100	**443T14**	100
	9.4 gal.	7½"	10"	WPF7510H-200	**443T15**	200
	10 gal.	15"	19"	WPD50H	**443T07**	50
	14.55 gal.	15"	19"	WPB50H	**443T01**	50
	18.1 gal.	10"	14"	WPF1014H	**443T12**	100
	20 gal.	15"	19"	WPD100H	**443T03**	100
	26.3 gal.	15"	19"	WPF100H	**443T09**	100
	29.1 gal.	15"	19"	WPB100H	**443R96**	100
	33.4 gal.	15"	19"	WP100H	**443R92**	100
Roll, Heavyweight, Polypropylene	49.8 gal.	15"	150 ft.	BRSF150H	**443P57**	2
	49.8 gal.	30"	150 ft.	BRF150H	**443P56**	1
	51.9 gal.	57"	48 ft.	PBRIG48H	**443R70**	1
	176.2 gal.	58"	160 ft.	RIG160H	**443R73**	1
Roll, Heavyweight, Cellulose/Polyethylene	42 gal.	19"	100 ft.	RRMAT19	**443R74**	2
	63 gal.	59"	100 ft.	RRMAT60	**443R75**	1
Sock	25 gal.	3" dia.	12 ft.	WSO1210	**443T62**	10
	25 gal.	3" dia.	4 ft.	WSO430	**443T64**	30



No. 443T67



No. 443T86



No. 443T95

SpillTech

Chemical/Hazmat Sorbents

Use for a fast and efficient response to spills of hazardous or unknown liquids. Rolls are ideal when you need to cover large spill areas. Socks allow you to contain spills so fluids won't spread out into larger or hard to access areas. They're flexible so you can deploy them around the bases of leaky machines with no seepage.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
Pad, Lightweight, Polypropylene	15.5 gal.	15"	19"	YPB100S	**443T69**	100
Pad, Mediumweight, Polypropylene	24.7 gal.	15"	19"	YPB100M	**443T68**	100
Pad, Heavyweight, Polypropylene	4.5 gal.	10"	14"	YPF1014H-25BX	**443T74**	25
	9.05 gal.	10"	14"	YPF1014H-50	**443T75**	50
	18.1 gal.	10"	14"	YPF1014H	**443T73**	100
	26.3 gal.	15"	19"	YPF100H	**443T72**	100
	29.1 gal.	15"	19"	YPB100H	**443T67**	100
Roll, Mediumweight, Polypropylene	46.1 gal.	30"	150 ft.	YRB150M	**443T86**	1
Roll, Heavyweight, Polypropylene	49.8 gal.	15"	150 ft.	YRSF150H	**443T89**	2
	49.8 gal.	30"	150 ft.	YRF150H	**443T87**	1
	55.2 gal.	15"	150 ft.	YRSB150H	**443T88**	2
	55.2 gal.	30"	150 ft.	YRB150H	**443T85**	1
Sock	25 gal.	3" dia.	4 ft.	YSO430	**443T97**	30
	25 gal.	3" dia.	12 ft.	YSO1210	**443T95**	10

Condor

Spill Control Cabinet

Kit contains all necessary items to safely clean up an oil spill. Includes (25) pads, (1) 3 x 8" sock, (2) 3 x 4" socks, (10) pillows, (1) goggles, (1) pair of nitrile gloves, and (5) disposal bags.

Volume Absorbed per Pkg.	Item No.
17 gal.	35ZT06





No. 4DNC7



No. 4DNC8



No. 4DND2



No. 5DFL5

BRADY SPC

Re-Form™ Sorbents

Re-Form™ is made from a minimum of 80% recycled newsprint and other cellulose. Re-Form™ Plus and XPlus are made with a spunbond coverstock and are great for handling foot traffic and wiping applications. Re-Form™ Oil Only is made from 80% cotton cellulose with spunbond coverstock.

Description	Volume Absorbed per Pkg.	W	L	Mfr. Model	Item No.	Pkg. Qty.
Re-Form™ Universal						
Pad, Lightweight	24 gal.	15"	19"	RF500	**4DNC7**	100
Pad, Mediumweight	32 gal.	15"	19"	RF300	**4DNC6**	100
Pad, Heavyweight	40 gal.	15"	19"	RF100	**4DNC5**	100
SOC	12 gal.	3" dia.	4 ft.	MS-412	**4DND6**	12
SOC	12 gal.	3" dia.	8 ft.	MS-806	**4DND7**	6
SOC	12 gal.	3" dia.	12 ft.	MS-124	**4DND8**	4
SOC	40 gal.	3" dia.	4 ft.	MS-50	**5UZ52**	40
Re-Form™ Plus Universal (1-Side Coverstock)						
Pad, Lightweight, Perforated	24 gal.	15"	19"	RFP500	**4DND1**	100
Pad, Mediumweight, Perforated	32 gal.	15"	19"	RFP300	**4DNC9**	100
Pad, Heavyweight, Perforated	40 gal.	15"	19"	RFP100	**4DNC8**	100
Roll, Mediumweight, Perforated	27 gal.	14¼"	150 ft.	RFP314P	**4DND5**	1
Roll, Mediumweight, Double Perforated	54 gal.	28½"	150 ft.	RFP328-DP	**4DND4**	1
Roll, Heavyweight, Perforated	30 gal.	14¼"	150 ft.	RFP14P	**4DND3**	1
Roll, Heavyweight, Double Perforated	62 gal.	28½"	150 ft.	RFP28-DP	**4DND2**	1
Re-Form™ XPlus Universal (2-Side Coverstock)						
Pad, Mediumweight, Perforated	32 gal.	16"	18"	RFDP300	**5DFL2**	100
Roll, Mediumweight, Double Perforated	55 gal.	28½"	150 ft.	RFDP328DP	**5DFL4**	1
Re-Form™ XPlus Oil-Only (2-Side Coverstock)						
Pad, Heavyweight, Perforated	39 gal.	15"	19"	RFODP100	**5DFL5**	100
Re-Form™ Oil-Only						
SOC	15 gal.	3" dia.	4 ft.	RFO412	**5DFL8**	12



No. 35ZR68



No. 35ZR98



No. 35ZT04

Condor

Spill Kits

Easily transported spill kits contain a variety of sorbents and protective gear to help you safely clean smaller chemical and industrial liquid spills. Excellent for plants, laboratories, workstations, and construction sites.

Container Type	Volume Absorbed per Pkg.	Includes	SPILL KIT Item No.	SPILL KIT REFILL Item No.
Universal				
Bucket	4.5 gal.	(20) Pads, (1) Pair of Nitrile Gloves, (1) Goggles, (1) Disposal Bag, (1) Instruction Sheet	**35ZR68**	—
Bag	5 gal.	(10) Pads, (2) Socks, (1) Pair of Nitrile Gloves, (1) Disposal Bag, (1) Instruction Sheet	**35ZR73**	—
Bag	9 gal.	(10) Pads, (2) Socks, (1) Pillow, (1) Pair of Nitrile Gloves, (1) Disposal Bag	**35ZR67**	—
Drum	14 gal.	(12) Pads, (2) Socks, (1) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR69**	**35ZR70**
Drum	29 gal.	(25) Pads, (3) Socks, (3) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR71**	**35ZR72**
Drum	32 gal.	(50) Pads, (2) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (6) Disposal Bags, (1) Handbook	**35ZR74**	**35ZR75**
Drum	55 gal.	(100) Pads, (4) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (5) Disposal Bags, (1) Handbook	**35ZR76**	**35ZR77**
Drum	67 gal.	(110) Pads, (12) 3 x 4" Socks, (4) 3 x 12" Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (10) Disposal Bags, (1) Handbook	**35ZR78**	**35ZR79**
Oil-Based Liquids				
Bucket	4.5 gal.	(20) Pads, (1) Pair of Nitrile Gloves, (1) Goggles, (1) Disposal Bag, (1) Instruction Sheet	**35ZR93**	—
Bag	5 gal.	(10) Pads, (2) Socks, (1) Pair of Nitrile Gloves, (1) Disposal Bag, (1) Instruction Sheet	**35ZR98**	—
Bag	9 gal.	(10) Pads, (2) Socks, (1) Pillow, (1) Pair of Nitrile Gloves, (1) Goggles, (1) Disposal Bag	**35ZR92**	—
Drum	14 gal.	(12) Pads, (2) Socks, (1) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR94**	**35ZR95**
Drum	29 gal.	(25) Pads, (3) Socks, (3) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR96**	**35ZR97**
Drum	32 gal.	(50) Pads, (2) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (6) Disposal Bags, (1) Handbook	**35ZR99**	**35ZT01**
Drum	55 gal.	(100) Pads, (4) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (5) Disposal Bags, (1) Handbook	**35ZT02**	**35ZT03**
Drum	67 gal.	(110) Pads, (12) 3 x 4" Socks, (4) 3 x 12" Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (10) Disposal Bags, (1) Handbook	**35ZT04**	**35ZT05**
Chemical, Hazmat				
Bag	5 gal.	(10) Pads, (2) Socks, (1) Pair of Nitrile Gloves, (1) Disposal Bag, (1) Instruction Sheet	**35ZR85**	—
Bag	9 gal.	(10) Pads, (2) Socks, (1) Pillow, (1) Pair of Nitrile Gloves, (1) Goggles, (1) Disposal Bag	**35ZR80**	—
Drum	14 gal.	(12) Pads, (2) Socks, (1) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR81**	**35ZR82**
Drum	29 gal.	(25) Pads, (3) Socks, (3) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (3) Disposal Bags, (1) Handbook	**35ZR83**	**35ZR84**
Drum	32 gal.	(50) Pads, (2) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (6) Disposal Bags, (1) Handbook	**35ZR86**	**35ZR87**
Drum	55 gal.	(100) Pads, (4) Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (5) Disposal Bags, (1) Handbook	**35ZR88**	**35ZR89**
Drum	67 gal.	(110) Pads, (12) 3 x 4" Socks, (4) 3 x 12" Socks, (4) Pillows, (1) Goggles, (1) Pair of Nitrile Gloves, (10) Disposal Bags, (1) Handbook	**35ZR90**	**35ZR91**



No. 2GU51



No. 3AP01



No. 42X737



No. 5UZ63



No. 42X719



No. 5UZ65

Spill Kits

Kits keep spill response products readily available.

Fluids Absorbed	Volume Absorbed Per Pkg.	Includes	Mfr. Model	Item No.
Portable Kit with PVC Carrying Bag				
Universal	5 gal.	(10) 15" x 19" Pads, (2) 3" x 4 ft. SOCs, (1) Pair Nitrile Gloves, (1) Disposal Bag, (1) Instruction Sheet	SKA-PP	**2GU51**
Oil-Based Liquids	5 gal.		SKO-PP	**3WNF4**
Chemical, Hazmat	5 gal.		SKH-PP	**3WNF3**
Portable Kit in Foil Bag				
Universal	7 gal.	(15) 15" x 19" Pads, (3) 3" x 4 ft. SOCs, (1) Goggles, (1) Pair of Nitrile Gloves, (1) Disposal Bag, Instruction Sheet	SKA-ATK	**3AP01**
Oil-Based Liquids	7 gal.		SKO-ATK	**5UZ72**
Chemical, Hazmat	7 gal.		SKH-ATK	**3TYH9**
Vehicle Spill Kit				
Universal	7.75 gal.	(10) 15" x 19" Oil Only Pads, (10) 15" x 19" Universal Pads, (2) 3" x 4 ft. SOCs, (1) Putty, (2) Disposal Bags, (1) Goggles, (1) Pair Nitrile Gloves	BSCSK-CB	**42X754**
Universal	11.5 gal.	(10) 15" x 19" Pads, (2) Disposal Bags, (20) Oil Only 15" x 19" Pads, (3) Pairs of 3" x 42" Socks, Pair of Goggles, Pair of Nitrile Gloves, Putty Patty, (9) Plugs	SK-VEH	**436N17**
2-gal. Spill Response Plus Kit				
Universal	4.5 gal.	(20) 7½" x 10" Pads, (1) Disposal Bag, (1) Goggles, (1) Pair Nitrile Gloves, (1) Instruction Sheet	SKA-SRP	**42X737**
Oil-Based Liquids	4.5 gal.		SKO-SRP	**42X739**
Chemical, Hazmat	4.5 gal.		SKH-SRP	**42X738**
6.5-gal. Bucket				
Universal	9.1 gal.	(10) 15" x 19" Pads, (3) 3" x 4 ft. SOCs, (1) Pair Nitrile Gloves, (2) Disposal Bags, Instruction Sheet	SKA-BKT	**2NCN6**
Oil-Based Liquids	9.1 gal.		SKO-BKT	**2NCN7**
Chemical, Hazmat	9.1 gal.		SKH-BKT	**2NCN8**
6.5-gal. Acid and Base Neutralizer Kits				
Chemical, Hazmat	5 gal.	(10) 15" x 19" Pads, (2) 3" x 4 ft. SOCs, (1) 2-lb. Neutralizer Shaker, (1) Goggles, (1) Hazmat Suit, (1) Scoop	SKA-BKTACID	**42X761**
Chemical, Hazmat	5 gal.		SKA-BKTBASE	**42X760**
20-gal. Lab Pack				
Universal	16 gal.	(12) 15" x 19" Pads, (3) 3" x 12 ft. SOCs, (2) 18" x 18" Pillows, (1) Goggles, (1) Pair Nitrile Gloves, (3) Disposal Bags, Emergency Handbook	SKA-20	**5UZ63**
Oil-Based Liquids	16 gal.		SKO-20	**5UZ69**
Chemical, Hazmat	16 gal.		SKH-20	**5UZ66**
30-gal. Drum				
Universal	36 gal.	(25) 15" x 19" Pads, (6) 3" x 12 ft. SOCs, (6) 9" x 9" Pillows, (3) Disposal Bags, (1) Goggles, (1) Pair Nitrile Gloves, (1) Emergency Handbook	SKA30	**42X742**
Oil-Based Liquids	36 gal.		SKO30	**42X745**
Chemical, Hazmat	36 gal.		SKH30	**42X744**
55-gal. Wheeled Kit				
Universal	38 gal.	(50) 15" x 19" Pads, (4) 3" x 12 ft. SOCs, (8) 18" x 18" Pillows, (5) Disposal Bags, (1) Goggles, (1) Pair Nitrile Gloves, (1) Emergency Handbook	SKA-55W	**42X719**
Oil-Based Liquids	38 gal.		SKO-55W	**42X720**
Chemical, Hazmat	38 gal.		SKH-55W	**42X721**
55-gal. Drum				
Universal	38 gal.	(50) 15" x 19" Pads, (4) 3" x 12 ft. SOCs, (8) 18" x 18" Pillows, (5) Disposal Bags, (1) Goggles, (1) Pair Nitrile Gloves, Emergency Handbook	SKA-55	**5UZ64**
Oil-Based Liquids	40 gal.		SKO-55	**5UZ70**
Chemical, Hazmat	37 gal.		SKH-55	**5UZ67**
65-gal. Drum				
Universal	63 gal.	(100) 15" x 19" Pads, (7) 3" x 12 ft. SOCs, (7) 18" x 18" Pillows, (5) Disposal Bags, (1) Goggles, (1) Pair Nitrile Gloves, (1) Emergency Handbook	SKA65	**42X747**
Oil-Based Liquids	63 gal.		SKO65	**42X750**
Chemical, Hazmat	63 gal.		SKH65	**42X749**
95-gal. Wheeled Kit				
Universal	79 gal.	(110) 15" x 19" Pads, (12) 3" x 4 ft. SOCs, (8) 3" x 12 ft. SOCs, (8) 18" x 18" Pillows, (10) Disposable Bags, (1) Goggles, (1) Pair Nitrile Gloves, Emergency Handbook	SKA-95W	**42X716**
Oil-Based Liquids	75 gal.		SKO-95W	**42X717**
Chemical, Hazmat	75 gal.		SKH-95W	**436N07**
95-gal. Overpack Drum				
Universal	82 gal.	(110) 15" x 19" Pads, (12) 3" x 4 ft. SOCs, (8) 3" x 12 ft. SOCs, (8) 18" x 18" Pillows, (1) Goggles, (1) Pair Nitrile Gloves, (10) Disposal Bags, Emergency Handbook	SKA-95	**5UZ65**
Oil-Based Liquids	82 gal.		SKO-95	**5UZ71**
Chemical, Hazmat	82 gal.		SKH-95	**5UZ68**
95-gal. Drum Spill Kit Refills				
Oil-Based Liquids	75 gal.	(110) 15 x 19" Pads, (12) 3 x 4", (8) 3 x 12" SOCs, (8) 18 x 18" Pillows, (10) Disposable Bags, (1) Goggles, (1) Pair Nitrile Gloves, (1) Emergency Response Guidebook	SKO95-R	**42X831**
Chemical, Hazmat	75 gal.		SKH95-R	**42X830**

Spill Kits

Portable Spill Kits combine absorbents, accessories, PPE, and instructions in a space-saving container so you are prepared when a spill occurs. Emergency Spill Sak Kits are extremely portable and packed in a reusable stuff sack. Absorb up to 10 gal. per kit with highly versatile absorbents.

Description	Volume. Absorbed Per Pkg.	Includes	Mfr. Model	Item No.
Portable with Zipper PVC Bag				
Oil-Based Liquids	15 gal.	(32) 15 x 19" Pads, (5) 3 x 4" SOCs, (1) 17 x 19" Pillow, (2) Disposable Bags, (1) Goggles, (1) Nitrile Gloves, (1) Instruction Sheet	SKO-CFB	**42X796**
Chemical, Hazmat	15 gal.	(32) 15 x 19" Pads, (5) 3 x 4" SOCs, (1) 17 x 19" Pillow, (2) Disposable Bags, (1) Goggles, (1) Pair Nitrile Gloves, (1) Instruction Sheet	SKH-CFB	**42X795**
Emergency Spill Sak				
Universal	9 gal.	(10) 15" x 19" Pads, (2) 3" x 12 ft. Socks, (1) 17" x 19" Pillow, (1) Pair of Nitrile Gloves, (1) Disposal Bag, (1) Instruction Sheet	SKA-SAK	**15U867**
Oil-Based Liquids	3 gal.	(10) 15" x 19" Pads, (2) Pairs of 3" x 4' Socks, Pair of Nitrile Gloves, Pair of Goggles, Disposal Bag, Instruction Sheet	SKO-BSC	**436N15**
9-gal. Bucket				
Universal	9 gal.	(15) 15" x 19" Pads; (2) Pair of 3" x 4' Socks, Pair of Nitrile Gloves, Disposal Bag, Instruction Sheet	SKA-BKT-5	**436N01**
Oil-Based Liquids	9.1 gal.	(15) 15" x 19" Pads, (2) Pairs of 3" x 4' Socks, Pair of nitrile gloves, Disposal Bag, Instruction Sheet	SKO-BKT-5	**436N14**
Chemical, Hazmat	9.1 gal.	(15) 15" x 19" Pads, (2) Pairs of 3" x 4' Socks, Pair of Nitrile Gloves, Disposal Bag, Instruction Sheet	SKH-BKT-5	**436N09**



No. 42X796



No. 15U867

Spill Kits

- Help meet spill plan regulations
- Overpack salvage drum kits are X- and Y-rated for Packing Groups I, II, and III to ship spill cleanup waste

Kits are packed with absorbents and supplies needed for quick spill response.

Description	Volume. Absorbed Per Pkg.	Includes	Mfr. Model	Item No.
9-gal. Portable Compact Carry Kits				
Universal	9 gal.	(4) Socks, (28) Pads, (5) Disposal Bags	KIT220	**30RD33**
Chemical, Hazmat	9 gal.	(4) Socks, (28) Pads, (5) Disposal Bags, Instructions	KIT320	**30RE67**
20-gal. Overpack Drum				
Universal	12 gal.	(5) Socks, (15) Pads, (2) Pillows, (5) Disposal Bags, (6) Seal Labels	KIT211	**30RD27**
30-gal. Overpack Drum				
Universal	21 gal.	(4) Socks, (4) Pillows, (25) Pads, (5) Disposal Bags, (6) Seal Labels, Instructions	KIT236	**30RD41**
37-gal. Wheeled Overpack Drum				
Universal	37 gal.	(70) Pads, (5) Socks, (3) Loose Absorbents, (5) Disposal Bags, (6) Seal Labels, Instructions	KIT273	**30RD58**
76-gal. Wheeled Overpack Chest				
Universal	76 gal.	(41) Socks, (154) Pads, (112) Wipers, (15) Disposal Bags, (6) Seal Labels, Instructions	KIT279-OR	**30RD62**
50-gal. Wheeled Overpack Drums				
Oil-Based Liquids	31 gal.	(40) Pads, (10) Socks, (4) Pillows, (56) Wipers, (5) Disposal Bags, (6) Seal Labels, Instructions	KIT468	**30RE21**
Chemical, Hazmat	27 gal.	(10) Socks, (40) Pads, (4) Pillows, (56) Wipers, (5) Disposal Bags, (6) Seal Labels, Instructions	KIT365	**30RE88**
65-gal. Overpack Drum				
Universal	39 gal.	(16) Socks, (6) Pillows, (56) Wipers, (40) Pads, (10) Disposal Bags, (6) Seal Labels, Instructions	KIT243	**30RD45**
95-gal. Overpack Drums				
Universal	60 gal.	(26) Socks, (60) Pads, (8) Pillows, (6) Seal Labels, (10) Disposal Bags, Instructions	KIT202	**30RD21**
Oil-Based Liquids	52 gal.	(13) Booms, (60) Pads, (10) Disposal Bags, (6) Tamperproof Labels, Instructions	KIT402	**30RD92**
95-gal. Hi-Visibility Drum				
Universal	60 gal.	(26) Socks, (8) Pillows, (60) Pads, (56) Wipers, (10) Disposal Bags, (6) Seal Labels, Instructions	KIT262	**30RD53**
Wheeled Mobile Response Kit				
Oil-Based Liquids	40 gal.	(70) Pads, (6) Socks, (2) Loose Absorbents, (5) Disposal Bags, (6) Seal Labels, Instructions	KIT459	**30RE19**



No. 30RD33



No. 30RD27



No. 30RD62



No. 30RE19



No. 30RD53

Spill Control Cabinet

High-visibility safety yellow cabinet has a see-through front panel to check inventory levels. Prepacked with absorbents for quick response to spills. Heavy-duty welded steel construction. Kit and refill package include 5 socks, 80 mat pads, 8 pillows, 56 wipers, 10 disposal bags with ties, and an emergency phone number label.

Description	Volume Absorbed Per Pkg.	Mfr. Model	Item No.
Spill Control Cabinet	17 gal.	KIT228	**30RD38**
Refill Kit	17 gal.	RFL228	**30RD80**



No. 30RD38



No. 443U03



No. 443U14



No. 443U85



No. 443U16



No. 443U31


No. 443U13


No. 443U53

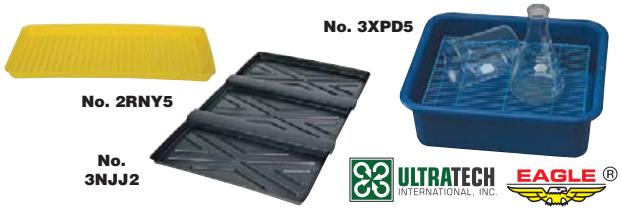

No. 443U39

Spill Kits

SpillTech

Portable spill kits provide the right absorbents to help you contain spills and reduce slip-and-fall hazards. They can be easily positioned in a warehouse, factory, or other facilities for fast containment and cleanup. Choose a tote bag, bucket, or duffle bag with the absorbents you need for your specific spill. Their compact design allows easy storage in fleet vehicles. Overpack kits come in a durable, lightweight, and chemical-resistant container that contains a variety of absorbents and protects them from damage, dirt, and moisture. Wheeled overpacks can fit easily through doorways and aisles and are easy for you to maneuver in tight spaces without the need for a hand truck or other material handling equipment. Lockable overpacks help protect contents.

Description	Volume Absorbed per Pkg.	Includes	Mfr. Model	Item No.
Portable Kits with Tote Bag				
Spill Kit/Station/Bag, Universal	7.49 gal.	(20) Absorbent Pads, (2) Absorbent Socks, (2) Disposal Bags and Ties, (1) Safety Goggles, (1) Pair of Gloves, (1) Tote Bag	SPKU-TOTE	**443U03**
Spill Kit/Station/Bag, Oil-Based Liquids	7.49 gal.	(20) Absorbent Pads, (2) Absorbent Socks, (2) Disposal Bags and Ties, (1) Safety Goggles, (1) Pair of Gloves, (1) Tote Bag	SPKO-TOTE	**443U20**
Portable Kits with Bucket				
Spill Kit/Station/Bucket, Universal	5.2 gal.	(10) 15" x 19" Absorbent Pads, (2) 3" x 4 ft. Absorbent Socks, (2) 18" x 30" Disposal Bags and Ties, Pair of Nitrile Gloves, Safety Goggles, (6) 6" x 2" Tamper Proof Seals, 5 gal. White Overpack Bucket, 3" x 5" Vinyl Spill Kit Label	SPKU-5	**443U14**
Spill Kit/Station/Bucket, Oil-Based Liquids	4.6 gal.	(10) Absorbent Pads, (2) Absorbent Socks, (2) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) White Overpack Bucket	SPKO-5	**443U30**
Portable PPE Kit with Zip Closure Bag				
Spill Kit/Station/Box, Universal	9 gal.	(3) Coveralls, (3) Pair Latex Boots, (3) Pairs of Gloves, (3) Disposal Bags and Ties, (1) Emergency Guide Book, (1) Zip Closure Bag	PPE-KIT	**443U85**
20-gal. Overpack/Salvage Drums				
Spill Kit/Station/Drum, Universal	16.4 gal.	(25) Absorbent Pads, (4) Absorbent Socks, (2) Absorbent Pillows, (4) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Overpack	SPKU-20	**443U16**
Spill Kit/Station/Drum, Oil-Based Liquids	15.2 gal.	(25) Absorbent Pads, (4) Absorbent Socks, (2) Absorbent Pillows, (4) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Overpack	SPKO-20	**443U32**
30-gal. Overpack/Salvage Drums				
Spill Kit/Station/Drum, Universal	25.6 gal.	(25) Absorbent Pads, (4) Absorbent Socks, (4) Absorbent Pillows, (1) Emergency Guide Book, (5) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Overpack	SPKU-30	**443U15**
Spill Kit/Station/Drum, Oil-Based Liquids	23.1 gal.	(25) Absorbent Pads, (4) Absorbent Socks, (4) Absorbent Pillows, (1) Emergency Guide Book, (5) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Overpack	SPKO-30	**443U31**
50-gal. Wheeled Overpack/Salvage Drums				
Spill Kit/Station/Drum, Universal	45.7 gal.	(100) Absorbent Pads, (6) Absorbent Socks, (4) Absorbent Pillows, (1) 7" Epoxy Stick, (1) Glow Light Stick, (1) Emergency Guide Book, (5) Disposal Bags and Ties, (2) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Wheeled Overpack	SPKU-50-WD	**443U13**
Spill Kit/Station/Drum, Oil-Based Liquids	43.3 gal.	(100) Absorbent Pads, (6) Absorbent Socks, (4) Absorbent Pillows, (1) 7" Epoxy Stick, (1) Glow Light Stick, (1) Emergency Guide Book, (5) Disposal Bags and Ties, (2) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Wheeled Overpack	SPKO-50-WD	**443U29**
Spill Kit/Station/Drum, Chemical, Hazmat	43.3 gal.	(100) Absorbent Pads, (6) Absorbent Socks, (4) Absorbent Pillows, (1) 7" Epoxy Stick, (1) Glow Light Stick, (1) Emergency Guide Book, (5) Disposal Bags and Ties, (2) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Wheeled Overpack	SPKHZ-50-WD	**443U45**
50-gal. Drum Spill Kit Refill Boxes				
Spill Kit/Refill/Box, Universal	41.3 gal.	(100) Absorbent Pads, (6) Small Absorbent Socks, (4) Large Absorbent Socks, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (2) Pair of Gloves, (2) Safety Goggles, (2) Coveralls, (6) Tamper Proof Seals, (3) 28 oz. Shakers of Supersorb, (2) 56 PK Wipers	RSPKU-CAN	**443U53**
Spill Kit/Refill/Box, Oil-Based Liquids	45.9 gal.	(100) Absorbent Pads, (6) Small Absorbent Socks, (4) Large Absorbent Socks, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (2) Pair of Gloves, (2) Safety Goggles, (2) Coveralls, (6) Tamper Proof Seals, (3) 28 oz. Shakers of Supersorb, (2) 56 PK Wipers	RSPKO-CAN	**443U63**
Spill Kit/Refill/Box, Chemical, Hazmat	44.7 gal.	(100) Absorbent Pads, (6) Small Absorbent Socks, (4) Large Absorbent Socks, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (2) Pair of Gloves, (2) Safety Goggles, (1) Ph Tester Kit, (2) Coveralls, (6) Tamper Proof Seals, (3) Shakers of Acid Neutralizer	RSPKHZ-CAN	**443U73**
95-gal. Overpack/Salvage Drum				
Spill Kit/Station/Drum, Oil-Based Liquids	79.7 gal.	(150) Absorbent Pads, (12) Small Absorbent Socks, (6) Large Absorbent Socks, (7) Absorbent Pillows, (3) 1 lb. Plug and Dike Epoxy Putty, (2) Pair of Gloves, (1) Safety Goggles, (4) Disposal Bags and Ties, (1) Emergency Guide Book, (6) Tamper Proof Seals, (1) Overpack	SPKO-95	**443U26**
95-gal. Wheeled Overpack/Salvage Drums				
Spill Kit/Station/Drum, Universal	86.9 gal.	(150) Absorbent Pads, (12) Small Absorbent Socks, (6) Large Absorbent Socks, (7) Absorbent Pillows, (3) 1 lb. Plug and Dike Epoxy Putty, (2) Pair of Gloves, (1) Safety Goggles, (4) Disposal Bags and Ties, (1) Emergency Guide Book, (6) Tamper Proof Seals, (1) Overpack	SPKU-95-WD	**443U09**
Spill Kit/Station/Drum, Chemical, Hazmat	79.7 gal.	(150) Absorbent Pads, (12) Small Absorbent Socks, (6) Large Absorbent Socks, (7) Absorbent Pillows, (3) 1 lb. Plug and Dike Epoxy Putty, (2) Pair of Gloves, (1) Safety Goggles, (4) Disposal Bags and Ties, (1) Emergency Guide Book, (6) Tamper Proof Seals, (1) Overpack	SPKHZ-95-WD	**443U41**
86-gal. Wheeled Lockable Cart				
Spill Kit/Station/Cart, Chemical, Hazmat	86 gal.	(100) Absorbent Pads, (15) Small Absorbent Socks, (3) Large Absorbent Socks, (2) Absorbent Booms, (7) Absorbent Pillows, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Yellow Cart	SPKHZ-CART5	**443U39**
110-gal. Wheeled Lockable Carts				
Spill Kit/Station/Cart, Universal	103.2 gal.	(160) Absorbent Pads, (30) Small Absorbent Socks, (10) Large Absorbent Socks, (112) Wipers, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Yellow Cart	SPKU-CART5	**443U06**
Spill Kit/Station/Cart, Oil-Based Liquids	109.9 gal.	(100) Absorbent Pads, (4) 5" Absorbent Booms, (2) 8" Absorbent Booms, (2) Red Net Pillows, (4) Absorbent Pillows, (1) Emergency Guide Book, (4) Disposal Bags and Ties, (1) Pair of Gloves, (1) Safety Goggles, (6) Tamper Proof Seals, (1) Yellow Cart	SPKO-CART5	**443U22**



Spill Containment Trays

Foldable Utility—Portable 1-pc. trays made of high-visibility, 18-oz. PVC fabric unroll and unfold for setup.

Utility—Polyethylene construction with ribbed bottom to keep containers elevated above small spills or leaks.

Laboratory Trays—Polypropylene (PP) trays are for use with safety mats or wire grid. Low-density polyethylene (LDPE) trays have heavy walls and wide top flanges.

Pallet Racks—Polyethylene trays fit under shelving and pallet racking. Help contain small spills and leaks from palletized containers. Additional trays and connectors configure larger areas.

Description	Spill Cap.	Color	L	W	H	Brand	Mfr. Model	Item No.
Foldable Utility								
Collapsible	1.5 gal.	Yellow	12"	12"	4¾"	UltraTech	1335	**10D418**
	5 gal.	Yellow	18"	18"	4¾"	UltraTech	1330	**10D419**
	6.50 gal.	Yellow	24"	24"	4¾"	UltraTech	1331	**10D420**
	9 gal.	Yellow	30"	30"	4¾"	UltraTech	1332	**10D421**
	17 gal.	Yellow	42"	42"	4¾"	UltraTech	1333	**10D422**
	20 gal.	Yellow	48"	48"	4¾"	UltraTech	1334	**10D423**
Utility								
Includes Pour Spout	1.8 gal.	White	17"	12"	4"	UltraTech	1060	**3FTZ3**
	2.9 gal	White	21"	17"	4"	UltraTech	1061	**3FTZ4**
Standard	5 gal.	Black	36"	18"	2"	Eagle	1677BLK	**3TAX1**
	5 gal.	Yellow	36"	18"	2"	Eagle	1677	**2RNY5**
	12 gal.	Black	12"	48"	4¾"	UltraTech	1031	**3FTZ5**
	18 gal.	Black	36"	24"	4¾"	UltraTech	1034	**3FTZ8**
	24 gal.	Black	24"	48"	4¾"	UltraTech	1032	**3FTZ6**
	27 gal.	Black	36"	36"	4¾"	UltraTech	1035	**3FTZ9**
	30 gal.	Black	30"	48"	4¾"	UltraTech	1033	**3FTZ7**
	30 gal.	Black	40"	48"	3½"	UltraTech	1036	**3FUA1**
Laboratory Trays								
Containment Tray with Grid (PP)	1.85 gal.	Blue	14⅜"	12⅛"	4¾"	SP Scienceware	F24676	**3XPD5**
Benchtop Tray (PP)	0.88 gal.	White	18½"	22 1/16"	½"	SP Scienceware	F24675	**3ZFV4**
Tray without Faucet (LDPE)	2.49 gal.	White	12"	16"	3"	SP Scienceware	F16270	**3ZFV5**
	4.16 gal	White	16"	20"	3"	SP Scienceware	F16271	**3ZFV6**
Pallet Racks								
Single Tray	8 gal.	Black	44"	23½"	2¾"	UltraTech	2370	**3NJH9**
2 Trays with 1 Connector	16 gal.	Black	44"	48"	2¾"	UltraTech	2371	**3NJJ1**
3 Trays with 2 Connectors	24 gal.	Black	44"	72"	2¾"	UltraTech	2372	**3NJJ2**
Tray Connector	—	Black	44"	5½"	2¾"	UltraTech	2373	**3NJJ3**

pig ★ GA GRAINGER APPROVED

Leak Diverters

No. 10C889



- Vinyl-coated clear and translucent diverters resist punctures, UV, and mildew
- White and yellow diverters are flame-retardant

Diverters capture overhead leaks and redirect the fluid. Connect standard garden hose to the bottom fitting and route to floor drain, collection drum, or tank. Include steel rings in each corner for easy installation. No. 42X297 also includes a bungee cord.

L	W	Brand	Item No.
Roof			
Laminated 33% Polyester/67% PVC, Clear			
7 ft.	3 ft.	Pig	**J7474**
10 ft.	5 ft.	Pig	**J7471**
12 ft.	12 ft.	Pig	**J7467**
15 ft.	15 ft.	Pig	**J7468**
20 ft.	10 ft.	Pig	**J7472**
20 ft.	20 ft.	Pig	**J7469**
Laminated 33% Polyester/67% PVC, Translucent			
12 ft.	12 ft.	Pig	**J7467**
20 ft.	20 ft.	Pig	**J7469**
Laminated Polyester, White			
2½ ft.	2½ ft.	GA	**42X285**
5 ft.	5 ft.	GA	**10C876**
7 ft.	3 ft.	GA	**42X286**
7 ft.	7 ft.	GA	**10C877**
10 ft.	10 ft.	GA	**10C878**

L	W	Brand	Item No.
Laminated Polyester, Yellow			
2½ ft.	2½ ft.	GA	**42X293**
5 ft.	5 ft.	GA	**10C889**
7 ft.	7 ft.	GA	**10C890**
10 ft.	10 ft.	GA	**10C891**
Polyethylene, Black/Silver			
2½ ft.	2½ ft.	GA	**42X289**
5 ft.	5 ft.	GA	**10C882**
7 ft.	3 ft.	GA	**42X290**
7 ft.	7 ft.	GA	**10C883**
10 ft.	5 ft.	GA	**42X291**
10 ft.	10 ft.	GA	**10C884**
12 ft.	12 ft.	GA	**10C885**
Pipe			
Laminated Polyester, Yellow			
18 ft.	18 ft.	GA	**42X297**









pig

Leak Diverters

Easy-to-hang diverters catch leaks and channel them to a floor drain or container.

Roof Leak Diverters—Diverters accept a standard ¾" hose connection. Hose and hanging straps sold separately, except self-hanging Umbrella-Style Kits include diverter, hose, and drain fitting for longer hoses.

Roof and Pipe Leak Diverter Kits—Contain supplies for rapid response to leaks.

Description	Color	Mfr. Model	Item No.
Roof Leak Diverters			
2½ ft. x 2½ ft.	Clear	TLS552-CL	**30PX89**
5 ft. x 5 ft.	Clear	TLS462-CL	**30PX53**
Roof Leak Diverters, Umbrella-Style Kits			
30" x 30"	Clear	TLS461-CL	**30PX50**
30" x 30"	Yellow	TLS461-YW	**30PX52**
48½" x 48½"	Yellow	TLS903-YW	**30PY43**
Roof Leak Diverter Kit			
Includes 5 ft. x 5 ft. Diverter, Drainage Hose, 4 Hanging Straps and 6½ Gal. Pail	Translucent	TLS121-TR	**30PX37**
Roof Leak Diverter Kits with Absorbents			
Includes 5 ft. x 5 ft. Quick-Connect Diverter Set with Attached Hanging Straps, (30) PIG Mats, (50) Wipers and 6½ Gal. Pail	Translucent	TLS667-TR	**30PY16**
Includes 7 ft. x 7 ft. Quick-Connect Diverter Set with Attached Hanging Straps, (30) PIG Mats, (50) Wipers, and 6½ Gal. Pail	Translucent	TLS668-TR	**30PY17**
Roof and Pipe Leak Diverter Kit with Absorbents			
Includes 2 Leak Diverters with Drainage Hoses, Hanging Straps, (30) "CAUTION" Mat Pads, (50) Wipers, Pipe Wrap, Repair Putty and Carrying Bag	Translucent	TLS671	**30PY20**





Ceiling Leak Diverters

No. 30PX48

pig

Discrete systems capture ceiling leaks and drain away the liquid through included hose.

Description	Mfr. Model	Item No.
Above-the-Ceiling Leak Diverter		
Includes Leak Diverter, Frame with Legs, and ¼" dia. x 25-ft. PVC Hose	TLS620-CL	**30PY15**
Drop-Ceiling Leak Diversion Systems		
Includes 2 ft. x 2 ft. Diverter, Drain Hose, and Clips	TLS366	**30PX48**
Includes 2 ft. x 4 ft. Diverter, Drain Hose, and Clips	TLS367	**30PX49**

Filter Socks

ULTRATECH INTERNATIONAL, INC.



No. 32V028

Help keep harmful substances from entering a stormwater system. The woven polymer casing allows water to pass through quickly while filtration media inside removes pollutants. 4"H x 7"W x 108"L.

Filtration Media Description	Mfr. Model	Item No.
Sediment Removal	9457	**32V032**
Oil and Hydrocarbon Removal	9455	**32V030**
Heavy Metal Material Removal	9454	**32V029**
Phosphorous Removal	9456	**32V031**
Activated Carbon for Hydrocarbons and Odor Removal	9453	**32V028**

ENPAC

ULTRATECH INTERNATIONAL, INC.

Drain Catch Basin Inserts



No. 3BU44



No. 32V033

Inserts keep sediment, oils, and other equipment runoff from entering the water system.

Storm Sentinel™—Self-supporting designs adjust to fit most basin sizes. Drain Dam No. 3BU45 attaches to drain grating at curbside to redirect water into catch basin inserts.

Ultra-Drain Guard®—Inserts exceed 80% sediment removal efficiency. Nos. 3EWN9 and 10D417 feature filter strips to increase oil and grease absorption. Grate Hook No. 3EWP2 safely lifts grate from catch basins, drains, and other inlets.

Description	Brand	Mfr. Model	Item No.
Storm Sentinel™			
Oil and Sediment for Rectangular Catch Basins 28" x 36"	ENPAC	4341-IB	**3BU44**
Sediment for Rectangular Catch Basins 28" x 36"	ENPAC	4341	**1EFJ3**
Oil and Sediment for Round Catch Basins 27" to 29"	ENPAC	4340-IB	**4FPE8**
Sediment for Round Catch Basins 27" to 29"	ENPAC	4340	**3NJD4**
Drain Dam	ENPAC	4345	**3BU45**
Ultra-Drain Guard®			
Oil and Sediment, Rectangular 48"L x 36"W x 18"H	UltraTech	9217	**3EWN8**
Oil and Sediment, Rectangular 60"L x 60"W x 18"H	UltraTech	9356	**10D416**
Oil and Sediment Plus, Rectangular 48"L x 36"W x 18"H	UltraTech	9219	**3EWN9**
Oil and Sediment Plus, Rectangular 60"L x 60"W x 18"H	UltraTech	9358	**10D417**
Oil, Sediment, and Metal, Rectangular 48"L x 36"W x 18"H	UltraTech	9397	**32V033**
Trash and Debris	UltraTech	9227	**3EWP1**
Grate Hook, 30¾"L	UltraTech	9235	**3EWP2**



No. 3NJF2

ULTRATECH INTERNATIONAL, INC.

Ultra-Gutter Guards®

- Comply with NPDES and EPA 40 CFR 122.26-1999

Reusable barriers keep sediment and other debris out of curb inlets. Install quickly without stakes, weights, or hardware. Overflow ports let rainwater pass through. Made of recycled materials.

L	W	H	Mfr. Model	Item No.
8 ft.	9"	9"	9320	**3NJF2**
10 ft.	9"	9"	9321	**3NJF3**
12 ft.	9"	9"	9322	**3NJF4**

No. 3EWP7



ULTRATECH INTERNATIONAL, INC.

Inlet Guards

- Comply with EPA 40 CFR 122.26-1999

Guards provide protection from debris and install without the need to lift heavy catch basin grates. Low-profile design is held in place with magnets and is unobtrusive to vehicular traffic. Bypass port prevents ponding.

L	W	H	Mfr. Model	Item No.
Standard Drain				
24"	24"	2"	9160	**3EWP3**
24"	36"	2"	9161	**3EWP4**
24"	48"	2"	9162	**3EWP5**
Curb-Style Combination Drain				
24"	24"	8"	9163	**3EWP6**
24"	36"	8"	9164	**3EWP7**
24"	48"	8"	9165	**3EWP8**



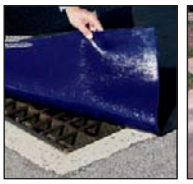
ULTRATECH INTERNATIONAL, INC.

Dewatering Bags

- Comply with NPDES and EPA 40 CFR 122.26-1999

Capture oil and sediment pumped out during dewatering. Accommodate up to a 4" discharge hose.

L	W	Mfr. Model	Item No.
36"	48"	9729-OS	**3EWY6**
72"	72"	9724-OS	**3EWY7**
120"	180"	9725-OS	**3EWY8**
180"	180"	9727-OS	**3EWY9**



No. 30PW26



No. 30PW48

pig

DrainBlocker® Drain Covers

Feature a super-sealing, rip-resistant urethane bottom layer.

Drain Covers vinyl composite top layer resists stretching, diesel and gasoline, and chemicals.

Drive-Over style features rubber HogHyde® top cover to handle heavy traffic, debris, and grit.

Curb-Style has polypropylene top layer and is pliable, to form a tight seal on curved or face-opening drains.

Size	Thickness	Color	Item No.
Drain Covers			
12" dia.	5/16"	Yellow/Black	**30PW45**
30" dia.	5/16"	Yellow/Black	**30PW47**
24"W x 24"L	5/16"	Yellow/Black	**30PW36**
30"W x 30"L	5/16"	Yellow/Black	**30PW37**
36"W x 36"L	5/16"	Yellow/Black	**30PW38**
54"W x 54"L	5/16"	Yellow/Black	**30PW41**
Drive-Over Drain Covers			
30"W x 30"L	½"	Black/Blue	**30RF28**
36"W x 36"L	½"	Black/Blue	**30RF29**
42"W x 42"L	½"	Black/Blue	**30RF30**
48"W x 48"L	½"	Black/Blue	**30PW26**
54"W x 54"L	½"	Black/Blue	**30PW27**
Curb-Style Drain Covers			
18"W x 120"L	7/64"	Green	**30PW48**

ULTRATECH INTERNATIONAL, INC.

Drain Seals and Storage Containers

- Seals comply with NPDES and SPCC

Drain Seal polyurethane pads temporarily seal to most smooth surfaces, forming a contaminant barrier that resists oil, water, and chemicals.



No. 32V042

L	W	ORANGE Mfr. Model	ORANGE Item No.	CLEAR Mfr. Model	CLEAR Item No.
Drain Seals					
18"	18"	2126	**3EWR5**	2200	**32V042**
24"	24"	2127	**3EWR6**	2201	**32V043**
36"	36"	2130	**3EWR7**	2202	**32V044**
42"	42"	2131	**3EWR8**	2203	**32V045**
48"	48"	2132	**3EWR9**	2204	**32V046**
54"	54"	2133	**3EWT1**	2205	**32V047**
58"	18"	—	—	2206	**32V048**
58"	36"	—	—	2207	**32V049**

Description	L	W	Mfr. Model	Item No.
Drain Seal Wall-Mount Containers, Yellow Color				
Fits 18" or 24" Square, 12" or 20" Dia. Drain Seals	27"	7"	2140	**3EWU5**
Fits 36" Square and 30" Dia. Drain Seals	39"	7"	2142	**3EWU6**
Fits 42" or 48" Square and 42" Dia. Drain Seals	51"	7"	2143	**3EWU7**



No. 8AG44

BRADY

Spill Magnet™ Drain Seals

Block hazardous spills until proper containment and neutralization procedures are performed. Strong, magnetic vinyl mats adhere to any clean metal drain with 110 lb./sq. ft. strength. Overlap two or more to seal larger drains.

Description	L	W	Mfr. Model	Item No.
Round	—	12" dia.	96229	**8CWM8**
Square	18"	18"	96228	**9CP23**
	24"	24"	31111LS	**8AG44**
Rectangular	36"	24"	31112LS	**9MG65**
	48"	24"	31113LS	**9W884**

Drain Plugs

Conical polyurethane plugs wedge into drains to make a liquidtight, chemical-resistant seal in seconds. Low profile fits below floor grate. Kit No. 30PW20 includes one each: 2"-, 3"-, and 4"-dia. conical drain plugs.

Fits Drain Dia.	Mfr. Model	Item No.
Drain Plugs		
2"	PLR208	**30PW21**
3"	PLR209	**30PW22**
3½"	PLR281	**30PW25**
4"	PLR210	**30PW23**
6"	PLR252	**30PW24**
Drain Plug Kit		
2" to 4"	PLR207	**30PW20**



No. 30PW21

ULTRATECH INTERNATIONAL, INC.

Spill Berms

No. 3EWX2

Chemical-resistant polyurethane material seals off, contains, or diverts spills. No. 3EWX6 with built-in connectors allows easy assembly. No. 3NJV3 has self-sealing, interlocking end joints.



Description	L	W	H	Mfr. Model	Item No.
Spill Berms, Connector, and Corner					
Spill Berm, Orange	10 ft.	4"	2¼"	2100	**3EWX2**
Spill Berm, Black	10 ft.	4"	2¼"	2050	**3EWX3**
, Black	7"	4"	1"	2101	**3EWX4**
Spill Berm 90 Degree Corner, Orange	4"	4"	2 ¼"	2102	**3EWX5**
Spill Berm Plus with Built-In Connectors					
Spill Berm Plus, Orange	60"	4"	4½"	2054	**3EWX6**
Spill Berm, Low-Profile					
Spill Berm, Orange	10 ft.	2¼"	1⅜"	2052	**3NJV3**

Build-A-Berm® Barriers

Designed for long-term use to contain leaks from machinery or storage areas, and keep liquid away from equipment. Open-cell foam core springs back into shape after you walk or drive over the berm.

Barrier Components and Kit— Durable 18-oz. vinyl cover withstands being driven over with light wheeled equipment. Straight sections are easily cut to length. 90° corners create liquidproof junctions. Wall end pieces seal flush against floor and wall.

Heavy-Duty Barrier Components— 40-oz. vinyl-coated fabric cover helps provide permanent or semipermanent containment in areas with frequent heavy vehicle traffic on concrete, asphalt, or most sealed surfaces.



Barrier Kit No. 30RF31



Heavy-Duty Barrier Components (Sold Separately)

Description	L	W	H	Mfr. Model	Item No.	Pkg. Qty.
Barrier Components						
Straight Section	15 ft.	4½"	1½"	PLR278	**30PW82**	1
Corner for No. 30PW82	6¾"	4½"	1½"	PLR279	**30PW83**	2
Wall End for No. 30PW82	6"	4½"	1½"	PLR114	**30PW74**	2
Straight Section	60"	9"	6"	PLR276	**30PW80**	2
Corner for No. 30PW80	10½"	9"	6"	PLR277	**30PW81**	2
Wall End for No. 30PW80	11"	9"	6"	PLR513	**30PW88**	2
Barrier Kit						
Includes (2) Barriers, (6) Sealant Tubes and (4) Corners	50 ft.	5½"	2"	PLR222	**30RF31**	1
Heavy-Duty Barrier Components						
Straight Section with (6) Mounting Strips and (33) Anchors	12 ft.	5½"	2"	PLR283	**30PW84**	1
Vented Corner for No. 30PW84	11¼"	5½"	2"	PLR108	**30PW72**	2
Wall End for No. 30PW84	3"	5½"	2"	PLR109	**30PW73**	2

ULTRATECH INTERNATIONAL, INC.

Drain Plugs

Flexible, polyurethane tapered design wedges securely into drains. Plugs resist oil, water, and most chemicals. Removable eyebolts for inserting. Kit No. 3EWY1 includes one each of 2", 3", and 4" drain plugs, plus a plastic carrying case.

Fits Drain Dia.	Mfr. Model	Item No.
Drain Plugs		
2"	2113	**3EWX7**
3"	2114	**3EWX8**
4"	2115	**3EWX9**
6"	2117	**3EWY2**
8"	2118	**3EWY3**
10"	2119	**3EWY4**
12"	2121	**3EWY5**
Drain Plug Kit		
2", 3", 4"	2116	**3EWY1**



No. 3EWY1

SpillBlocker® Barrier Dikes

No. 30PW54

Nonabsorbent, easy-to-install barriers deliver fast protection.

Reusable dikes feature tacky bottom layer that makes a tight, liquid-blocking seal on smooth surfaces.

No. 30PW61's super-tacky bottom layer forms a liquid-tight seal on asphalt. Includes 1 connector. Intended for 1-time limited use—do not use long term.





No. 30PW61

Description	L	W	H	Color	Mfr. Model	Item No.	Pkg. Qty.
Reusable SpillBlocker® Dikes							
Original SpillBlocker® Dike	10 ft.	4"	2¼"	Black	PLR204	**30PW53**	1
	10 ft.	4"	2¼"	Yellow	PLR204	**30PW54**	1
Dike with Built-In Dovetail Connector	60"	3½"	3"	Black	PLR267	**30PW64**	2
	60"	3½"	3"	Yellow	PLR267	**30PW65**	2
Connector for Nos. 30PW53 and 30PW65	4"	5½"	2¼"	Black	PLR205	**30PW55**	1
Corner for No. 30PW64	5"	4¾"	3"	Black	PLR268	**30PW66**	1
High-Volume Dike	60"	4"	4½"	Green	PLR253	**30PW62**	1
	60"	4½"	6¾"	Green	PLR254	**30PW63**	1
SpillBlocker® Rough Surface Dike, Single Use							
Single-Use Dike with Disposable Bag	10 ft.	2"	2¼"	Black, Yellow	PLR230	**30PW61**	1

SpillBlocker® Dikes

SpillBlocker®—Reusable dike deploys quickly to block to a machine leak. The flexible, tacky bottom seals tight to smooth surfaces. Oil-, water-, and chemical-resistant polyurethane material.

Drive-Over SpillBlocker®—Flexible barrier is designed for traffic and long-term outdoor use. Molds easily around obstacles. Super-sealing urethane inner layer bonds to concrete and smooth surfaces without adhesives. Tough, UV-resistant rubber HogHyde® skin.



No. 30PW57



No. 30PW67

Description	L	W	H	Color	Mfr. Model	Item No.
SpillBlocker® Dike	10 ft.	2¼"	1⅜"	Yellow	PLR212	**30PW57**
Drive-Over SpillBlocker® Dike	10 ft.	2"	1"	Black	PLR350	**30PW67**
Corner for No. 30PW67	6"	2"	1"	Black	PLR351	**30PW68**

DoorBlocker Dike

Wedge-shaped reusable dike fits tight against doorjambs to seal off a spreading spill or wash-down liquid. High-visibility yellow color.

L	W	H	Mfr. Model	Item No.
48"	2"	1½"	PLR213	**30PW58**





No. 3NJE1



No. 5LPZ2

ENPAC

Portable Containment Berms

Fast assembly for immediate spill containment response.

Stinger Yellow Jacket™ Units— Lightweight, portable pallets fold up for compact storage and transport. Snap-up support strips provide sturdy sidewalls to contain acid and hazmat spills.

Stinger Snap-Up Berms™—Heavy-duty, easy-to-assemble snap-up design permits immediate response. Excellent rip, tear, and puncture resistance for demanding applications. Lap joint welds for maximum strength. Fuel- and chemical-resistant. Compact and easy to store and ship.

Stinger Rail Berm™—Lightweight, durable containment pad provides portable spill containment and control for below-loading/unloading rail tank cars. Outside rail side compartment features two 2" drains with a quick-coupling system to transport spilled material.

Stinger Snap-Foam Berms™—True drive-in/drive-out capabilities: foam log end caps allow tanks and trucks to enter and exit at will without assistance. Feature a reliable two-way air relief system.

Spill Cap.	L	W	H	Mfr. Model	Item No.
Stinger Yellow Jacket™ Unit					
80 gal.	4 ft.	4 ft.	8"	57-448-YE-SU	**3NJE1**
120 gal.	4 ft.	6 ft.	8"	57-468-YE-SU	**3NJE2**
160 gal.	4 ft.	8 ft.	8"	57-488-YE-SU	**3NJE3**
180 gal.	6 ft.	6 ft.	8"	57-668-YE-SU	**24N335**
320 gal.	8 ft.	8 ft.	8"	57-888-YE-SU	**3NJE4**
400 gal.	8 ft.	10 ft.	8"	57-8108-YE-SU	**3NJE5**
501 gal.	10 ft.	10 ft.	8"	57-10108-YE-SU	**24N336**
Stinger Snap-Up Berm™					
119 gal.	4 ft.	4 ft.	12"	48-441-BK-SU	**24N338**
119 gal.	6 ft.	4 ft.	8"	48-468-BK-SU	**24N339**
159 gal.	8 ft.	4 ft.	8"	48-488-BK-SU	**24N340**
179 gal.	4 ft.	6 ft.	12"	48-461-BK-SU	**1EFH6**
269 gal.	6 ft.	6 ft.	12"	48-661-BK-SU	**1EFH7**
319 gal.	8 ft.	8 ft.	8"	48-888-BK-SU	**24N341**
748 gal.	10 ft.	10 ft.	12"	48-10101-BK-SU	**1EFH4**
1077 gal.	12 ft.	12 ft.	12"	48-12121-BK-SU	**1EFH5**
1914 gal.	16 ft.	16 ft.	12"	48-16161-BK-SU	**24N342**
1944 gal.	26 ft.	10 ft.	12"	48-10261-BK-SU	**24N343**
Stinger Rail Berm™					
120 gal.	6 ft.	4 ft.	12"	48-RSB-FS	**5LPZ2**
Stinger Snap-Foam Berm™					
1944 gal.	10 ft.	26 ft.	12"	48-10261-BK-SF	**1EFH8**
3231 gal.	12 ft.	36 ft.	12"	48-12361-BK-SF	**1EFJ2**
5385 gal.	12 ft.	60 ft.	12"	48-12601-BK-SF	**1EFJ1**
5654 gal.	14 ft.	54 ft.	12"	48-14541-BK-SF	**1EFH9**



No. 20JJ72



No. 20JJ57

ULTRATECH INTERNATIONAL, INC.

Ultra-Containment Berms®

Larger sizes protect heavy equipment from spills; smaller sizes provide total containment of drums, tanks, generators, and other equipment. Constructed of durable Copolymer 2000™. Economy, Compact, and Collapsible models feature sidewalls that lower quickly for convenient entry and exit.

Economy—Space-saving design is excellent for use anywhere floor space is a premium. L-shaped aluminum brackets provide sturdy sidewall support and easy assembly. Fit comfortably into tight storage spaces.

Compact—Lightweight, portable design folds for easy storage on trucks and hazmat response vehicles. Deploy without inflation; just insert sidewall struts into their pockets.

Collapsible—Support feet on rugged PVC sidewall assemblies swivel to lower or raise the walls quickly.

Rapid Rise—Sidewalls stay lowered during normal operations; no setup or takedown required. Vehicles drive in and out from any angle. In the event of a spill, the foam ring around the top perimeter rises with the level of spilled liquid.

Ultimate—Entry and exit walls are supported every 12" with a proprietary two-way hinge. Hands-free drive-in/drive-out endwalls automatically spring back to vertical. PVC sidewall assemblies easily swivel up or down for storage or transport.

Spill Cap.	L	W	H	Mfr. Model	Item No.
Economy					
179 gal.	6 ft.	4 ft.	12"	8250	**20JJ69**
269 gal.	6 ft.	6 ft.	12"	8251	**20JJ70**
748 gal.	10 ft.	10 ft.	12"	8252	**20JJ71**
5385 gal.	60 ft.	12 ft.	12"	8253	**20JJ72**
5610 gal.	50 ft.	15 ft.	12"	8254	**20JJ73**
7405 gal.	66 ft.	15 ft.	12"	8255	**20JJ74**
Compact					
179 gal.	6 ft.	4 ft.	12"	8609	**20JJ63**
269 gal.	6 ft.	6 ft.	12"	8610	**20JJ64**
5385 gal.	60 ft.	12 ft.	12"	8612	**20JJ66**
7405 gal.	66 ft.	15 ft.	12"	8614	**20JJ68**
Collapsible					
179 gal.	6 ft.	4 ft.	12"	8405	**20JJ57**
Rapid Rise					
179 gal.	6 ft.	4 ft.	12"	8430	**5PTT8**
269 gal.	6 ft.	6 ft.	12"	8431	**5PTT9**
748 gal.	10 ft.	10 ft.	12"	8432	**5PTU0**
2333 gal.	26 ft.	12 ft.	12"	8437	**5PTU1**
5610 gal.	50 ft.	15 ft.	12"	8433	**5PTU2**
7405 gal.	66 ft.	15 ft.	12"	8434	**5PTU3**
Ultimate					
5385 gal.	60 ft.	12 ft.	12"	8505	**20JJ54**
7405 gal.	66 ft.	15 ft.	12"	8507	**4LNV5**



No. 5EET2

GA GRAINGER APPROVED

GOBAGGER®

Sandbags and Filling Tool

Hemmed polypropylene top with attached tie cord. Mildew-resistant. 500-hr. UV rating for white bags; 1200-hr. UV rating for orange bags.

Sandbag Filling Tool, No. 5EET2, fills bags faster than conventional shovel method.

Description	L	W	Color	Brand	Item No.	Pkg. Qty.
Sandbags, Hold 40 lb.	26"	14"	White	GA	**6FGY1**	100
			Orange	GA	**6FGX9**	100
Sandbags, Hold 50 lb.	27"	18"	White	GA	**6FGY2**	100
			Orange	GA	**6FGY0**	100
Sandbag Filling Tool	26"	9½"	Yellow	GoBagger	**5EET2**	1

Lab Packs, Overpacks, and Salvage Drums

EAGLE®

HDPE (high-density polyethylene) containers. Safety yellow, except Nos. 2RNY7 and 2RNY8 are blue.

LAB PACKS/OVERPACKS

- Lab packs, except No. 3TZW5, meet DOT 49 CFR 173.12
- Overpacks meet DOT 49 CFR 173.25
- Nos. 2RNY7 and 2RNY8 also meet FDA 21 CFR 177.150

Use lightweight, nestable lab packs and overpacks for storage, transportation, cleanup, and spill containment. Yellow lab packs have plastic lever-lock or screw-top lids. Blue lab packs have plastic lids with metal lever-lock rings.

14 and 20 Gal. Lab Packs—Easily store 5 gal. pails or smaller containers. 20gal. containers have handles.

30 Gal. Lab Packs—Stackable; can be used as a shipping container, lab pack, or spill kit container.

Overpacks—Feature screw-top lids and include handles for forklift use.

SALVAGE DRUMS

- Meet 3 psi pressure test and DOT 49 CFR 173.3

Nestable drums provide safe secondary containment for storage, transport, and cleanup. Removable poly head and metal band. No. 4RF63 features handles.

DRUM ACCESSORIES

Drum Tray—Chemical-resistant tray goes under 5 to 55 gal. containers during dispensing or filling. Reservoir with raised supports keeps container away from spills.

Metal Drum Tray Dolly—Welded construction and rubber wheels.

Drip Pan—Filled with polypropylene sorbent to hold up to 1 gal. of oils, water-based liquids, and other nonaggressive liquids.



No. 2RNY7



No. 5PW10



No. 4RF59

Drum Volume Cap.	O.D.	I.D.	Overall H	Drum Color	UN Rating Solid	Mfr. Model	Item No.
Lab Packs							
14 gal.	15"	13½"	26½"	Yellow	1H2/Y100/S	1610	**3UAZ7**
14 gal.	15"	13½"	26½"	Blue	1H2/X65/S, 1H2/Y100/S	1610MB	**2RNY7**
20 gal.	20⅜"	19⅜"	20¾"	Yellow	1H2/X57/S	1650	**5PW04**
20 gal.	20⅞"	19"	20⁷⁄₁₆"	Yellow	1H2/X40/S	1652	**3TZW6**
30 gal.	21⅛"	19"	28½"	Yellow	1H2/X100/S, 1H2/Y100/S	1601	**3TZW5**
30 gal.	21⅛"	19"	28½"	Blue	1H2/X120/S, 1H2/Y180/S	1601MB	**2RNY8**
30 gal.	22½"	19⅞"	28¼"	Yellow	1H2/X120/S, 1H2/Y180/S	1600SL	**3BE86**
Overpacks							
65 gal.	31"	27⅛"	33¾"	Yellow	1H2/X300/S	1661	**6YG06**
95 gal.	31"	27⅛"	41¼"	Yellow	1H2/X300/S	1690	**5PW10**

Drum Volume Cap.	O.D.	I.D.	Overall H	Drum Color	UN Rating Solid	Mfr. Model	Item No.
Salvage Drums							
20 gal.	20⅞"	19"	20⁷⁄₁₆"	Yellow	1H2/X75/S	1654	**4RF63**
30 gal.	21⅛"	19"	28½"	Yellow	1H2/X120/S, 1H2/Y180/S	1602	**4RF59**
65 gal.	31"	27⅛"	38⅞"	Yellow	1H2/X200/S	1665	**3KN31**
95 gal.	31"	27½"	44⅜"	Yellow	1H2/X340/S	1695	**3KN34**
Drum Accessories							
Pail Spill Containment Pallet with Grating, 5 gal.						1615	**3KXD1**
Drum Spill Tray, 10 gal.						1614	**4RF60**
Drum Tray Dolly for No. 4RF60						1618	**4RF61**
Drip Pan, 10½"L x 10½"W x 3"H, Pkg. of 12						1670PK12	**5U734**

Overpack/Salvage Drums

ENPAC

- Meet UN Group 1 Standards
- Meet DOT 49 CFR 173.3(c)
- Meet EPA, SPCC, and NPDES Regulations

Provide secure secondary containment of leaking liquids and hazardous materials. Chemical-resistant polyethylene construction with screw-top lid is great for indoor or outdoor use. Full drums can easily be moved with forklift.

Locking Overpack/Salvage Drum—Easy twist-down closing with secure 4-pt. system "locks" stacked salvage drums. Lock Down Security Kit No. 5LPZ1 is an optional, additional lockable serialized identification system to account for hazardous material from point A to Z.

Wheeled Overpack/Salvage Drums—Built-in handles and 6" polyolefin wheels enhance mobility and versatility, offering quick response on the move.



No. 5LPZ0 (Shown with No. 5LPZ1, Sold Separately)



No. 4TAJ4

Drum Volume Cap.	O.D.	I.D.	Overall H	UN Rating Solid	Mfr. Model	Item No.
Overpack/Salvage Drums						
20 gal.	22¼"	21½"	19"	1H2/X75/S, 1H2/Y100/S	1220-YE	**3TZX6**
30 gal.	22¼"	21½"	30"	1H2/X100/S	1230-YE	**4TAJ1**
65 gal.	27¾"	23"	37"	1H2/X200/S	1065-YE	**4TAH9**
95 gal.	31⅛"	25¾"	40"	1H2/X227/S	1037-YE	**4TAJ2**
Locking Overpack/Salvage Drum						
95 gal.	32"	27"	44"	1H2/X295/S	1295-YE	**5LPZ0**
Lock Down Security Kit	—	—	—	—	1295-LK	**5LPZ1**
Wheeled Overpack/Salvage Drums						
50 gal.	24"	18½"	45⅜"	1H2/X125/S	1259-YE	**4TAJ3**
95 gal.	31⅛"	25¾"	47½"	1H2/X113/S	1299-YE	**4TAJ4**

EAGLE®

Drum Spill Container and Dolly



No. 3KN23 (Funnel and Dolly Sold Separately)

- Container meets EPA 40 CFR 264.175

Drum Spill Container—Use as a spill containment unit, mobile pumping station, or waste collection station. 66-gal. spill capacity.

Drum Dolly—Transports drums up to 1000 lb.

Description	O.D.	I.D.	H	Mfr. Model	Item No.
Drum Spill Container	31"	27"	33"	1612	**3KN23**
Drum Dolly	27½"	27½"	7"	1698	**3KN35**

Drum Covers and Funnels

EAGLE®

Chemical-resistant HDPE construction.

Drum Covers—Rigid, dome-shaped snap-on design fits 55-gal. metal drums.

Funnels—High sidewall makes liquid transfer easier and contains spills and splashes.

Funnel Cover—Keeps out dirt and contaminants.



No. 5PW08



No. 5PW05

Description	Item No.
Drum Covers	
For Closed Head Drums	**5PW08**
For Open Head Drums	**5PW09**
Funnels Fit 2" NPT Bung for 30- and 55-gal. Closed Head Drums	
18" dia.	**5PW05**
18" dia. with Brass Screen	**5PW06**
Funnel Cover	
Use with Nos. 5PW05 and 5PW06	**5PW07**


No. 45YX94


No. 45YY06

Collapsible Spill Containment Berms and Pools

Condor

Berms—Durable chemical-, rip-, tear-, and puncture-resistant berms are also designed for compact storage and transport. Economical units also feature a quick-and-easy setup. Tested welds help ensure maximum performance.

Pools—These spill containment pools provide immediate spill response for a wide range of chemicals, acids, fuels, and other hazardous materials. Just pull the pool out and place it in your preferred area to catch any drips and leaks.

Spill Cap.	L	W	H	Item No.
Spill Containment Berms				
119 gal.	4 ft.	4 ft.	12"	**45YX94**
179 gal.	4 ft.	6 ft.	12"	**45YX95**
235 gal.	4 ft.	8 ft.	12"	**45YX96**
269 gal.	6 ft.	6 ft.	12"	**45YX97**
478 gal.	8 ft.	8 ft.	12"	**45YX98**
595 gal.	8 ft.	10 ft.	12"	**45YX99**
748 gal.	10 ft.	10 ft.	12"	**45YY01**
1077 gal.	12 ft.	12 ft.	12"	**45YY02**
2333 gal.	12 ft.	26 ft.	12"	**45YY03**
4488 gal.	12 ft.	50 ft.	12"	**45YY04**
5610 gal.	15 ft.	50 ft.	12"	**45YY05**

Description	Spill Cap.	H	Item No.
Containment Pools			
28" Outside Dia.	20 gal.	13"	**45YY06**
48" Outside Dia.	65 gal.	14"	**45YY07**


No. 48FZ15

Drain Seals

Condor

Feature extremely durable construction with flexible, nonabsorbent material and a reinforced tear-resistant mesh interior sandwiched between layers of polyurethane around the edges. This increases durability and gives it the flexibility to deform and seal off most drains. Designed to quickly and effectively seal a drain in an emergency and resist oil, water, and most aggressive chemicals. Clean up easily with soap and water.


No. 48FZ07

Description	L	W	Item No.
Round Seals, ⅜" Thick	—	12" dia.	**48FZ15**
	—	20" dia.	**48FZ16**
	—	30" dia.	**48FZ17**
Square Seals, ⅜" Thick	18"	18"	**48FZ11**
	24"	24"	**48FZ12**
	36"	36"	**48FZ13**
Square Seals, ¼" Thick	18"	18"	**48FZ07**
	24"	24"	**48FZ08**
	36"	36"	**48FZ09**


No. 45YX88


No. 45YZ98

Condor

IBC and Horizontal Tank Spill Containment Units

One-piece molded, polyethylene units won't rust, dent, or corrode and provide an economical tank spill containment solution. Nos. 45YX88 and 45YX89 are forkliftable, nestable, and include removable grates for easy access and an integrated pail holder for quick and easy dispensing. IBC units also meet EPA 40 CFR 264.175.

Description	Spill Cap.	Load Cap.	L	W	H	Item No.
IBC Containment Unit	385 gal.	3000 lb.	73"	80½"	29½"	**45YX88**
IBC Containment Unit with Drain	385 gal.	3000 lb.	73"	80½"	29½"	**45YX89**
Horizontal Tank Containment Sump	373 gal.	10,000 lb.	84"	44"	30"	**45YZ98**
Horizontal Tank Containment Sump with Drain	373 gal.	10,000 lb.	84"	44"	30"	**45YZ99**


No. 45YX90


No. 45YX92

Condor

Covered Spill Containment Sheds

Sheds with lockable doors safely contain and store your liquids indoors or outside. Constructed with roll-top drawers for easy access from either side and removable grates for cleaning and access to sump. Durable sheds won't rust or corrode and can withstand high winds and extreme weather. Meet EPA 40 CFR 264.175.

Description	Spill Cap.	Load Cap.	L	W	H	Item No.
2-Drum	66 gal.	1000 lb.	37¼"	61"	72¾"	**45YX90**
2-Drum with Drain	66 gal.	1000 lb.	37¼"	61"	72¾"	**45YX91**
4-Drum	66 gal.	2000 lb.	58"	65"	69"	**45YX92**
4-Drum with Drain	66 gal.	2000 lb.	58"	65"	69"	**45YX93**


No. 45YZ82


No. 45YZ92


No. 45ZA01

Condor

Spill Containment Platforms and Pallets

Constructed of HDPE (high-density polyethylene) for excellent chemical resistance and durability. Compatible with pallet ramp No. 45ZA01 for simple loading and unloading, except as noted.

Platforms—Modular units feature a low-profile design with removable black grating for easy cleaning. 1-, 2-, and 4-drum units can be easily connected with built-in U channels.

Pallets—Units come with removable grating for easy cleaning and built-in pockets for forklifting.

Spill Pallet Ramp—Durable ramp enables easy loading and unloading on and off pallets and platforms.

Description	Spill Cap.	Load Cap.	L	W	H	Item No.	
Drum Spill Containment Platforms							
1-Drum	15 gal.	2000 lb.	26"	26¼"	6½"	**45YZ80**	*
1-Drum with Drain	15 gal.	2000 lb.	26"	26¼"	6½"	**45YZ81**	*
2-Drum	30 gal.	5000 lb.	51½"	26¼"	6½"	**45YZ82**	
2-Drum with Drain	30 gal.	5000 lb.	51½"	26¼"	6½"	**45YZ83**	
4-Drum	60½ gal.	10,000 lb.	52½"	51½"	6½"	**45YZ84**	
4-Drum with Drain	60½ gal.	10,000 lb.	52½"	51½"	6½"	**45YZ85**	
4-Drum	60½ gal.	10,000 lb.	26¼"	103½"	6½"	**45YZ86**	
4-Drum with Drain	60½ gal.	10,000 lb.	26¼"	103½"	6½"	**45YZ87**	
6-Drum	88 gal.	10,000 lb.	51½"	78¼"	6½"	**45YZ88**	
6-Drum with Drain	88 gal.	10,000 lb.	51½"	78¼"	6½"	**45YZ89**	
8-Drum	121 gal.	10,000 lb.	51½"	103"	6½"	**45YZ90**	
8-Drum with Drain	121 gal.	10,000 lb.	51½"	103"	6½"	**45YZ91**	
Drum Spill Containment Pallets							
2-Drum	66 gal.	4000 lb.	26¼"	51"	13¾"	**45YZ92**	*
2-Drum with Drain	66 gal.	4000 lb.	26¼"	51"	13¾"	**45YZ93**	*
4-Drum	66 gal.	8000 lb.	51½"	51½"	8"	**45YZ94**	
4-Drum with Drain	66 gal.	8000 lb.	51½"	51½"	8"	**45YZ95**	
4-Drum	132 gal.	8000 lb.	51"	52½"	13¾"	**45YZ96**	*
4-Drum with Drain	132 gal.	8000 lb.	51"	52½"	13¾"	**45YZ97**	*
Spill Pallet Ramp							
Polyethylene	—	—	45½"	32"	8"	**45ZA01**	

Not for use with No. 45ZA01 Spill Pallet Ramp.

EAGLE®

Spill Containment Platforms and Pallets

PLATFORMS, PALLETS, AND SUMPS

- Meet EPA 40 CFR 264.175

Platforms and pallets have chemical-resistant HDPE construction; yellow tub with black flat-top removable grating for quick spill inspection.

Modular Platforms—Flexible to reconfigure drum storage and dispensing areas. Interlocking low-profile design makes loading and unloading easier. Built-in U-channel connectors. All except 1-drum platforms feature forklift pockets. 1-drum platforms are injection molded for improved performance.

Platforms—Platforms are ideal for larger-quantity storage needs. Feature forklift pockets. 6- and 8-drum platforms are injection molded for increased capability.

- SPCC Compliant

Pallets—Provide mobility for transfer, dispensing, and waste collection areas. All feature forklift pockets.

Spill Sumps—Black polyethylene construction.

- SPCC Compliant

RAMPS

- Weight cap.: 1500 lb.

Polyethylene spill platform ramps make platform unloading easy. For use with all platforms listed below except Nos. 3PA32 and 35U062 to 35U064 and pallet Nos. 35U069 to 35U072.

Description	Spill Cap.	Load Cap.	L	W	H	BLACK/YELLOW Mfr. Model	BLACK/YELLOW Item No.	BLACK Mfr. Model	BLACK Item No.
Modular Platforms									
1-Drum	15 gal	2,000 lb	26 in	26 ¼ in	6 ½ in	1633	**3PA32**	1633B	**35U062**
1-Drum, w/Drain	15 gal	2,000 lb	26 in	26 ¼ in	6 ½ in	1633D	**35U064**	1633BD	**35U063**
2-Drum	30 gal	5,000 lb	51 ½ in	26 ¼ in	6 ½ in	1632	**4YF76**	1632B	**35U059**
2-Drum, w/Drain	30 gal	5,000 lb	51 ½ in	26 ¼ in	6 ½ in	1632D	**35U061**	1632BD	**35U060**
4-Drum, 2-piece	60 gal	10,000 lb	51 ½ in	51 ½ in	6 ½ in	1634	**4YF77**	—	—
4-Drum	60.5 gal	10,000 lb	52 ½ in	51 ½ in	6 ½ in	1635	**35U065**	1635B	**35U066**
4-Drum, w/Drain	60.5 gal	10,000 lb	52 ½ in	51 ½ in	6 ½ in	1635D	**35U068**	1635BD	**35U067**
Platforms									
4-Drum In-Line	60.5 gal	10,000 lb	26 ¼ in	103 ½ in	6 ½ in	1647	**4RF62**	1647B	**35U076**
4-Drum In-Line, w/Drain	60.5 gal	10,000 lb	26 ¼ in	103 ½ in	6 ½ in	1647D	**35U078**	1647BD	**35U077**
6-Drum	88 gal	10,000 lb	51 ½ in	78 ¼ in	6 ½ in	1686	**3KN32**	1686B	**35U080**
6-Drum, w/Drain	88 gal	10,000 lb	51 ½ in	78 ¼ in	6 ½ in	1686D	**35U082**	1686BD	**35U081**
8-Drum	121 gal	10,000 lb	51 ½ in	103 in	6 ½ in	1688	**3KN33**	1688B	**35U083**
8-Drum, w/Drain	121 gal	10,000 lb	51 ½ in	103 in	6 ½ in	1688D	**35U085**	1688BD	**35U084**
Pallets									
2-Drum	66 gal	4,000 lb	51 in	26 ¼ in	13 ¾ in	1620ND	**35U058**	1620BND	**35U057**
2-Drum, w/Drain	66 gal	4,000 lb	51 in	26 ¼ in	13 ¾ in	1620	**3KN24**	1620B	**35U056**
3-Drum, w/Drain	78 gal	6,000 lb	76 ¾ in	26 ¼ in	15 in	1630GRAI	**3KN28**	—	—
4-Drum	66 gal	8,000 lb	51 ½ in	51 ½ in	8 in	1645ND	**35U075**	1645BND	**35U074**
4-Drum, w/Drain	66 gal	8,000 lb	51 ½ in	51 ½ in	8 in	1645	**3KN29**	1645B	**35U073**
4-Drum	132 gal	8,000 lb	52 ½ in	51 in	13 ¾ in	1640ND	**35U072**	1640BND	**35U071**
4-Drum, w/Drain	132 gal	8,000 lb	52 ½ in	51 in	13 ¾ in	1640	**35U069**	1640B	**35U070**
Spill Sumps									
Spill Sump	373 gal	10,000 lb	84 in	44 in	30 in	—	—	16275	**35U087**
Spill Sump w/Drain	373 gal	10,000 lb	84 in	44 in	30 in	—	—	16275D	**35U088**
Spill Sump	635 gal	10,000 lb	88 in	62 in	33 in	—	—	16550	**35U089**
Spill Sump w/Drain	635 gal	10,000 lb	88 in	62 in	33 in	—	—	16550D	**35U090**

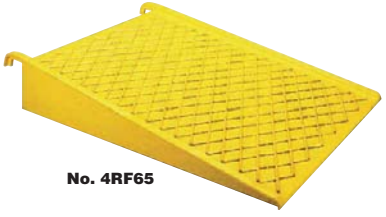
Description	Load Cap.	L	W	H	Color	Mfr. Model	Item No.
Ramps							
Spill Platform Ramp	1500 lb	45 ½ in	32 in	8 in	Black	1689B	**35U086**
Spill Pallet Ramp	1500 lb	45 ½ in	32 in	8 in	Yellow	1689	**4RF65**


No. 35U062


No. 4YF76


No. 3KN29


No. 35U087


No. 4RF65

Spill Containment Platforms and Pallets

ULTRATECH INTERNATIONAL, INC.

These containment platforms and pallets are used to contain spills, drips, and leaks. They are made from 100% polyethylene and compatible with a wide range of chemicals, including acids and corrosives. Low-profile design reduces the potential for hazardous liquids to splash into eyes or face. Ramps are used to load and unload drums. Platforms and pallets meet SPCC and EPA contain storage regulation 40 CFR 264.175.

No. of Drums	Drain Included	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Color	Item No.
Platforms									
1	No	11 gal	1,500 lb	25 ⅞ in	25 ⅞ in	5 ¾ in	1321 NOT DRILLED	Yellow	**3VAR3**
2	No	22 gal	3,000 lb	52 in	25 ⅞ in	5 ¾ in	1086	Yellow/Black	**4LNU3**
4	No	44 gal	6,000 lb	52 in	52 in	5 ¾ in	1072	Yellow/Black	**4LNU2**
6	No	66 gal	9,000 lb	74 ¼ in	50 in	5 ¼ in	1175	Yellow/Black	**4LNR2**
8	No	75 gal	12,000 lb	98 ½ in	50 in	5 ¼ in	1075	Yellow/Black	**4LNR3**
Pallets									
1	Yes	62 gal	800 lb	40 in	40 in	12 in	9607	Yellow	**53CP33**
1	No	62 gal	800 lb	40 in	40 in	12 in	9606	Yellow/Black	**4LNR4**
2	Yes	66 gal	4,500 lb	65 ½ in	40 in	8 ¾ in	9611	Yellow	**53CP34**
2	No	66 gal	4,500 lb	65 ½ in	40 in	8 ¾ in	9610	Yellow/Black	**4LNV9**
3	Yes	66 gal	4,500 lb	83 in	34 ½ in	8 ¾ in	9627	Yellow	**53CP35**
3	No	66 gal	4,500 lb	83 in	34 ½ in	8 ¾ in	9626	Yellow/Black	**9M443**
4	Yes	75 gal	9,000 lb	62 in	62 in	8 ¾ in	9631	Yellow	**53CP36**
4	No	75 gal	9,000 lb	62 in	62 in	8 ¾ in	9630	Yellow/Black	**4LNW1**

Description	L	W	H	Mfr. Model	Color	Item No.
Ramps						
Ramp for One-Drum Pallet	68 ½ in	28 ½ in	12 in	0678	Black	**4LNR5**
Ramp for Two-, Three- and Four-Drum Pallets	55 ½ in	28 ½ in	8 ¾ in	676	Black	**3FTZ2**
Ramp for Two Drum Pallets and Larger	24 in	32 in	5 ¾ in	1089	Yellow	**4LNT1**


No. 4LNU3


No. 53CP33


No. 4LNT1



Eagle Drum System (Components Sold Separately)



ENPAC® Drum Rack System No. 4TAL6

Spill Containment Systems

Eagle Drum Containment System— Chemical-resistant, polyethylene modular system can be configured for desired setup. Cradle No. 5PV96 interlocks with spill pallet grating for stable drum storage. Shelf No. 5PV99 attaches to single or double unit to support containers while dispensing from drums.

- Use with Eagle's spill containment pallets and platforms (see page 1863)

ENPAC® Drum Containment System— Polyethylene system consists of base module, stack module, and dispensing shelf. Double dispensing well accommodates safety cans and 5-gal. pails.

ENPAC® Drum Rack System— Polyethylene system holds two horizontally stacked 55-gal. drums. Shelf permits simultaneous dispensing, and bottom well holds 5-gal. pails and contains incidental spills and splashes. Can be moved with a forklift.

Description	Load Cap.	L	W	H	Mfr. Model	Item No.
Eagle Drum Containment System						
1-Drum Stack Module	1000 lb.	26½"	27"	29"	1606	**5PV97**
2-Drum Stack Module	2000 lb.	26½"	48"	13"	1607	**5PV98**
Cradle	2000 lb.	26½"	29"	22½"	1605	**5PV96**
Drum Stacker Shelf	100 lb.	23"	19"	19"	1608	**5PV99**
2-Drum Modular Platform	5000 lb.	51½"	26¼"	6½"	1632	**4YF76**

Description	Load Cap.	L	W	H	Mfr. Model	Item No.
ENPAC® Drum Containment System						
1-Drum Base Module	1600 lb.	31"	53"	32⅔"	6006-YE	**3NJN6**
2-Drum Stack Module	3000 lb.	49"	53"	23"	6000-YE	**3KP16**
1-Drum Stack Module	800 lb.	31¼"	40¾"	20"	6007-YE	**3NJN7**
2-Drum Stack Module	2400 lb.	49"	40¾"	12¾"	6002-YE	**3KP17**
Drum Stacker Shelf	60 lb.	17"	22"	17½"	6003-YE	**3KP18**
ENPAC Drum Rack System						
2-Drum Rack	1600 lb.	31"	53"	53"	600673-YE	**4TAL6**



No. 3PA33



No. 5PW02



No. 3KP15

Portable Spill Containment Units

Mobile Drum Spill Dolly— Protects against spills and leaks while moving drums. Features poly push/pull handle with a vertical locking port and 5 swivel casters (2 locking).

Drum Spill Platform Cart— Polyethylene construction. Features flat-top removable grating on steel frame, push/pull handle, plus 2 swivel and 2 fixed casters.

Spill Containment Caddies— 100% polyethylene drum handling, dispensing, and spill containment systems hold 55-gal. drums. Can be transported with forklift. Dispensing accommodates a variety of containers. Indoor Caddy No. 3KP15 has 10" polyolefin wheels. Outdoor Caddy No. 3KP22 has 10" semipneumatic wheels. Removable caddy liner available for easy cleaning.

Spill Cap.	Load Cap.	O.D.	I.D	H	Brand	Mfr. Model	Item No.
Mobile Drum Spill Dolly							
12 gal.	1,250 lb.	35¾"	31"	9½"	Eagle	1613	**3PA33**

Description	Spill Cap.	Load Cap.	L	W	H	Brand	Mfr. Model	Item No.
Drum Spill Platform Cart								
2-Drum	30 gal.	2000 lb.	56"	28"	41"	Eagle	1637	**5PW02**
Spill Containment Caddies								
Indoor Caddy	70 gal.	600 lb.	69"	31¾"	26½"	ENPAC	5300-YE	**3KP15**
Outdoor Caddy	70 gal.	600 lb.	69"	33"	27"	ENPAC	5300-YE-A	**3KP22**

No. 9ACY0



GRAINGER APPROVED

Pail Skids

For safe storage or to reduce spills when transferring liquid. High-density polyethylene resists chemical deterioration. No. 9JW86 has removable plywood deck to allow liquid drainage into base.

Spill Cap.	L	W	H	Item No.
5½ gal.	26"	20"	6"	**9JW86**
7½ gal.	36"	24"	8"	**9ACY0**

No. 5PW01



Budget Basins

HDPE is compatible with most chemicals. Low-profile basin loads and unloads easily. 4-drum basin fits on standard 48" x 48" pallet for multilevel storage.

Description	Spill Cap.	L	W	H	Mfr. Model	Item No.
2-Drum	34 gal.	51½"	26¼"	6½"	1631	**5PW01**
4-Drum	66 gal.	51½"	51½"	8"	1638	**3BE85**

No. 30RF41



Aerosol Can Recycler System

- No. 30RF41 meets EPA 40 CFR 261.1(c)(6)

Designed to puncture and drain aerosol cans to help render them exempt from hazardous waste regulations. Works with 9½"H domed mini, standard, and jumbo aerosol cans. Complete with puncture unit, goggles, instruction sign, plastic sleeve, 2-pc. carbon/coalescing filter, and grounding wire. Recycler mounts directly into a 2" bung on a 30- or 55-gal. drum to capture residual liquids. Features a carbon cartridge changeout indicator strip—carbon cartridge life is 3 mos., coalescing filter life is 6 mos.

Description	Mfr. Model	Item No.
Aerosol Can Recycler System	DRM1266	**30RF41**
Combination Coalescing/Carbon Filter	DRM1151	**30RF42**
Activated Carbon Cartridge, Pkg. of 2	DRM1150	**30RF43**

No. 3KP13



Aerosolv™ Aerosol Can Recycling System

Hand-operated unit relieves pressure from spent aerosol cans and prepares them for recycling. System includes a puncturing unit, coalescing/carbon filter, antistatic wire, and goggles. Accommodates a wide variety of industrial aerosol can sizes and shapes, including the 200 series, 300 series, and 6-oz. cans. Thread directly into the 2" bung of any standard drum.

Description	Mfr. Model	Item No.
Standard Aerosol Can Recycling System	28202	**3KP13**
Combination Coalescing/Carbon Filter	28197	**3KP11**
Activated Carbon Cartridge, Pkg. of 2	28198	**3KP12**
Color Changing Combination Coalescing/Carbon Filter	28224	**2RYG7**
Color Changing Activated Carbon Cartridge, Pkg. of 2	28223	**2RYG6**

Low-Profile Spill Pallets

ULTRATECH INTERNATIONAL, INC.

- Meet EPA 40 CFR 264.175

Low-profile design is nearly 50% lower than standard spill pallets for less strenuous drum handling. Pallets feature removable grates with a nonslip surface.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
1-Drum	62 gal.	800 lb.	40"	40"	12"	9606	**4LNR4**
2-Drum	66 gal.	4500 lb.	65½"	40"	8¾"	9610	**4LNV9**
3-Drum	66 gal.	4500 lb.	83"	34½"	8¾"	9626	**9M443**
4-Drum	75 gal.	9000 lb.	62"	62"	8¾"	9630	**4LNW1**



No. 4LNR4

Portable and Flexible Spill Pallets and Grates

ENPAC

Pallets provide temporary movable containment use and spill control. Can be used as portable washdown pad or pumping station. For indoor or outdoor use. Polyethylene foam Grates, Nos. 4TAL8 and 4TAL7, provide a firm foundation and clearance to capture incidental spills for items stored on spill pallets. Flexible construction allows for hand truck traffic and ample storage and transport.

Description	Spill Cap.	L	W	H	Mfr. Model	Item No.	
1-Drum Spill Pallet	7 gal.	24"	24"	3"	5750-YE	**4TAL2**	
2-Drum Spill Pallet	14 gal.	24"	48"	3"	5755-YE	**4TAL3**	
4-Drum Spill Pallet	29 gal.	48"	48"	3"	5760-YE	**4TAL4**	*
1-Drum Spill Pallet Grate	—	23"	23⅓"	1⅛"	7007-BK	**4TAL8**	
2-Drum Spill Pallet Grate	—	23"	47½"	1⅛"	7006-BK	**4TAL7**	

**** Use two of 2-Drum Pallet Grate No. 4TAL7.***



No. 4TAL4 (Spill Grates Sold Separately)

Spill Deck Bladder Systems

ULTRATECH INTERNATIONAL, INC.

- Meet EPA 40 CFR 264.175 spill containment regulations

Polyethylene containment deck systems have sump to capture small spills and leaks; hidden bladder unfolds to capture larger spills or leaks. Low-profile design enables safe, convenient drum loading, even without equipment.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
1-Drum Spill Deck Bladder System	77 gal.	1500 lb.	30½"	25⅞"	5¾"	1320	**3VAR2**
2-Drum Spill Deck Bladder System	88 gal.	3000 lb.	52"	26"	5¾"	2329	**4LNT7**
4-Drum Spill Deck Bladder System	110 gal.	6000 lb.	52"	56⅝"	5¾"	2330	**4LNT6**
Bladder Hand Pump	—	—	—	—	—	2345	**4JME3**
Replacement Bladder	66 gal.	—	66"	65½"	4½"	6340	**9PRK2**



No. 4LNT7

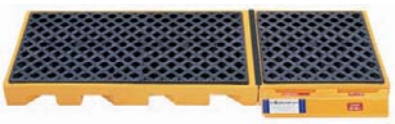
In-Line Spill Deck Bladder Systems

ULTRATECH INTERNATIONAL, INC.

- Meet EPA 40 CFR 264.175 spill containment regulations
- SPCC compliant

Polyethylene containment deck systems consist of connected modules that enable spills to flow from module to module. Hidden containment bladder unfolds for additional spill capacity. Can connect to additional in-line systems for expansion. Low-profile design with narrow depth saves valuable floor space.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
3-Drum	99 gal.	4500 lb.	77⅛"	25⅞"	5¾"	2360	**4LNU6**
4-Drum	110 gal.	6000 lb.	104"	25⅞"	5¾"	2361	**4LNU7**
Spill Pallet Ramp	—	—	24"	32"	5¾"	1089	**4LNT1**



No. 4LNU6

Secondary Containment Rack Sump

ULTRATECH INTERNATIONAL, INC.

- Meets EPA 40 CFR 264.175
- SPCC Compliant

Low-profile design fits into most warehouse racking and allows forklift access to pallet while sump remains in place. Polyethylene construction resists rust, corrosion, and chemicals. Holds up to four 55-gal. drums and can accommodate 40" x 48" or 48" x 48" wooden pallets. Translucent yellow color. Nestable design allows for easy storage when not in use.



Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
66 gal.	50 lb.	51½"	51½"	12"	2395	**4WLT7**

Drum Pallet and Sump

ULTRATECH INTERNATIONAL, INC.

- Meets EPA 40 CFR 264.175
- SPCC Compliant

Combination drum pallet and containment sump has removable deck and 4-way forklift access for easy rotation. Polyethylene construction. 4-drum capacity.



Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
85 gal.	6500 lb.	51"	51"	17½"	0801	**4LNU5**

2-Drum Workstations

EAGLE®

- Meet EPA 40 CFR 264.175

Workstations have chemical- and weather-resistant polyethylene construction to provide secure, lockable indoor/outdoor storage. Can be moved with forklift or pallet jack. No. 3NK26 permits lids to close while pump is in place. Dolly No. 3NK27 has welded construction with 4 swivel wheels.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
2-Drum Workstation	110 gal.	4000 lb.	60"	34"	46"	1626	**3KN25**
2-Drum High-Profile Workstation	220 gal.	4000 lb.	60"	34"	64"	1628	**3KN26**
Dolly for Nos. 3KN25 and 3KN26	—	1500 lb.	60"	34"	6"	1629	**3KN27**



No. 3KN25

Roll-Top Spill Containment Units



No. 3FTY1

- Meet EPA 40 CFR 264.175
- Comply with SPCC

Allow safe storage of hazardous drums with pumps and funnels in place. Lockable polyethylene units are resistant to rust and corrosion. Roll-top cover offers easy access. Can be safely moved by forklift or dolly.

1-Drum—Tall, 25¾" head space allows easy access to drum pumps and conical funnels. Lightweight upper section can be removed for loading or unloading.

2-, 4-, and 8-Drum—Enclosure design has wide-swinging front doors that allow drums to be easily accessed from either side. Low-profile containment pallets for safe, easy pouring or pumping. Spill Platform Ramp No. 3FTZ2 provides easy drum handling and stores inside unit.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.	
1-Drum	70 gal.	800 lb.	36"	36"	66"	9640	**3FTX8**	
1-Drum with Drain	70 gal.	800 lb.	36"	36"	66"	9641	**3FTX9**	
2-Drum	66 gal.	4500 lb.	67¼"	41¼"	74"	9612	**3FTY1**	
2-Drum with Drain	66 gal.	4500 lb.	67¼"	41¼"	74"	9613	**3FTY2**	
4-Drum	75 gal.	9000 lb.	64½"	62"	79"	9636	**3FTY3**	
4-Drum with Drain	75 gal.	9000 lb.	64½"	62"	79"	9637	**3FTY4**	
8-Drum	75 gal. per compartment	9000 lb.	126"	62"	79"	9650	**3FTY5**	
8-Drum with Drain	75 gal. per compartment	9000 lb.	126"	62"	79"	9651	**3FTY6**	
Spill Pallet Ramp	—	—	55½"	28½"	8¾"	676	**3FTZ2**	*

**** Not for use with 1-Drum Unit Nos. 3FTX8 and 3FTX9.***

Roll-Top Door Spill Containment Units



No. 5VD51 and No. 5VD53 (Sold Separately)

- Meet EPA 40 CFR 264.175

Securely store 55-gal. drums while keeping drum pumps in place and protecting against damaging spills, indoors or out. Polyethylene construction with rollback and lockable doors. Allow entry and exit from both sides. Ship unassembled.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.	
2-Drum Spill Pallet Hard Cover	58 gal.	2000 lb.	60"	37"	72"	4062-YE	**5VD50**	
4-Drum Spill Pallet Hard Cover	66 gal.	6000 lb.	65"	58"	69"	4064-YE	**5VD51**	
Spill Platform Ramp for 2- and 4-Drum Pallets	—	1000 lb.	67⅞"	30¾"	12½"	5039-BK	**5VD53**	
Spill Ramp Extender for 2-Drum Pallet	—	—	29½"	8½"	5½"	5038-BK	**5VD52**	*

**** Required when using ramp with 2-drum pallet.***

Storage Building



No. 5PW03 and No. 4RF65 (Sold Separately)

- Meets EPA 40 CFR 264.175

Covered hut can securely store up to four 55-gal. spill containment drums. It is made of high-density polyethylene (HDPE) with UV inhibitors, and has vented door louvers and a removable grating. The building has 4-way forklift pockets for transport when full. Empty building is easily positioned with the integrated top hooks. Optional ramp helps ease loading.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
4-Drum Storage Building	66 gal.	8000 lb.	57½"	57½"	72"	1649	**5PW03**
Spill Pallet Ramp	—	1500 lb.	45½"	32"	8"	1689	**4RF65**

Hard-Top Containment Systems



No. 9CG52

- Meet EPA 40 CFR 264.175 spill containment regulations
- SPCC Compliant

Hard-top systems feature lockable hinged covers to provide secure outdoor storage of hazardous materials. Easy-open covers have steel lift brackets to temporarily remain in an open position. Weather-resistant polyethylene construction is compatible with a range of chemicals. UV inhibitor helps resist damage. Removable deck grates for easy cleaning of sump area. Pallets, also available separately, have bright yellow translucent sidewalls that enable visual leak detection. No. 4LNR5 is not for use with 2-drum pallets.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
2-Drum, Hard Top	66 gal.	3000 lb.	57"	30½"	63½"	1082	**8ZEP8**
4-Drum, Hard Top	66 gal.	6000 lb.	57"	54"	64½"	1080	**9CG52**
2-Drum, Pallet Only	66 gal.	3000 lb.	53"	29"	16½"	1010	**8UL63**
4-Drum, Pallet Only	66 gal.	6000 lb.	53"	53"	11¾"	1000	**9NPD0**
Spill Pallet Ramp	318 gal.	—	68½"	28½"	12"	0678	**4LNR5**

Roll-Top IBC Spill Containment Units

ULTRATECH INTERNATIONAL, INC.

- Comply with EPA 40 CFR 264.175
- SPCC Compliant

Rust- and corrosion-resistant polyethylene design safely stores and locks hazardous materials. Upper roll-top door and lower swing-out doors provide easy access. Can be safely lifted and moved with a forklift.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
Single IBC Containment Unit	365 gal.	8500 lb.	64½"	62"	96"	1162	**3FTY7**
Single IBC Containment Unit w/Drain	365 gal.	8500 lb.	64½"	62"	96"	1161	**3FTY8**
Twin IBC Containment Unit	535 gal.	16,000 lb.	128"	67"	96"	1148	**3FTY9**
Twin IBC Containment Unit w/Drain	535 gal.	16,000 lb.	128"	67"	96"	1149	**3FTZ1**



No. 3FTY7

IBC Spill Containment Units

ULTRATECH INTERNATIONAL, INC.

Units have all polyethylene construction for chemical resistance; will not rust or corrode. Large 52" x 52" deck with removable grates for easy cleanup. Forklift access. All except No. 4LNT2 have a low-profile design for safe, convenient dispensing. Single and double-stack units have a small footprint. Double-stack unit holds 2 IBC tanks stacked on top of each other; meets EPA and SPCC container storage regulations. Twin units feature a 1-pc. molded sump that meets EPA and SPCC spill containment regulations for 2 IBC tanks.



No. 4LNP1 (IBC Tanks not included)

No. 4LNT2 (IBC Tanks not included)



Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
Single IBC Spill Containment Unit	365 gal.	8500 lb.	62"	62"	28"	1157	**4LNV6**
Single IBC Containment Unit w/Drain	365 gal.	8500 lb.	62"	62"	28"	1158	**4LNV7**
Double Stack IBC Containment Unit	400 gal.	16,000 lb.	58¾"	58¾"	33"	1057	**4LNT2**
Twin IBC Containment Unit	535 gal.	8000 lb.	124½"	61⅝"	22"	1140	**4LNP1**
Twin IBC Containment Unit w/Drain	535 gal.	8000 lb.	124½"	61⅝"	22"	1144	**4LNP3**

IBC Spill Containment Units

EAGLE®

- Meet EPA 40 CFR 264.175

Polyethylene units resist rust, corrosion, and most chemicals.

Single IBC Spill Units—Platform supports IBC tanks up to 50" square and can hold up to two IBC tanks vertically. Wide size helps contain side puncture-type leaks.

Double IBC Spill Unit—Accommodates two IBC tanks and fits most IBC dispensing units. Can be moved with a forklift. Two front bucket wells provide safe dispensing.



No. 5AB20

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
Single IBC Containment Unit	400 gal.	10,000 lb.	67"	67"	26"	1683	**5AB20**
Single IBC Containment Unit, w/Drain	400 gal.	10,000 lb.	67"	67"	26"	1683D	**35U079**
Twin IBC Containment Unit	400 gal.	20,000 lb.	118"	77½"	20"	1684	**5AB21**

LITTLE GIANT

No. 4UDX5 (IBC Tank not included)



IBC Spill Containment Units

Made of heavy-gauge steel for durability. High-load capacity with removable grating deck and drain plug for easy cleaning. Included pail holder attaches to inside or outside of sump; Double IBC Unit No. 4UDX6 includes two holders.

Description	Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
Single IBC Unit	400 gal.	10,000 lb.	76"	51"	29"	SST-IBC	**4UDX5**
Double IBC Unit	400 gal.	10,000 lb.	99"	51"	23"	SST-IBC-2	**4UDX6**

ENPAC

No. 4TAL1 (IBC Tank not included)



IBC Spill Containment Unit with Integrated Pail Holder

- Meets EPA 40 CFR 264.175

Polyethylene unit resists rust and corrosion and is highly chemically compatible. Platform supports IBC tanks up to 56¾" square and can hold up to two IBC tanks vertically. Integrated 5-gal. pail holder provides easy, spill-free dispensing.

Spill Cap.	Load Cap.	L	W	H	Mfr. Model	Item No.
385 gal.	8000 lb.	73"	80½"	29½"	5469-YE	**4TAL1**

Safety Storage Cabinet Information

Consider the following when selecting a safety cabinet:
- **Federal, state, and local compliance requirements**
- **Hazardous chemical flash point**

Determine whether liquid is Class I (Flammable) or Class II and III (Combustible) by using the liquid's Material Safety Data Sheet (MSDS). The flash point of your liquid classifies it as flammable or combustible.

OSHA COMPLIANCE:

The combined total of Class I and Class II liquids should not exceed 60 gal.

NFPA 30 COMPLIANCE:

The combined total of all Class I, Class II, and Class III liquids should not exceed 120 gal.

FLASH POINT GUIDE:

Class I Flammables - Flash Point: Below 100°F

Class II Combustibles - Flash Point: 100° to 139°F

Class III Combustibles - Flash Point: 140°F and above

COMMON FEATURES:

Double-wall construction with 1½" air space, continuous piano hinges, self-latching doors with 3-point key lock, 350-lb. capacity adjustable shelves, dual vents with flame arrestors, 2" leakproof bottom sill, leveling feet, built-in grounding connection. Includes English, Spanish, and French warning labels.

DOOR TYPES

Manual—Doors open full 180° and self-latch when pushed closed.

Self-Close—Doors automatically shut and latch after release. Fusible links hold doors open and melt at 165°F for automatic closure. Bifold, sliding style glides smoothly on spring-loaded track for one-handed access. Self-closing doors are mandatory in certain states that follow the NFPA Fire Code. Contact local fire marshal for specific requirements.



Bench Top
No. 45AE90



Under Counter
No. 45AE84



Standard
No. 45AE88

Steel Flammable Liquid Safety Storage Cabinets

Condor

- Meet OSHA and NFPA Code 30 Standards
- FM Approved

Flammable liquid storage cabinets have 16-ga. steel construction. High-gloss yellow polyurethane powder-coat paint and warning label. 2"W louvered panels support shelves adjustable on 4" centers. A flush-mount recessed lockable paddle latch with 3-point locking system provides improved security. Include four adjustable feet.

Cap.	Door Type	No. of Doors	No. of Shelves	H	W	D	Item No.
Bench Top							
4 gal.	Manual	1	1	22⅛"	17⅜"	18⅛"	**45AE90**
4 gal.	Self-Closing	1	1	23⅜"	17⅜"	18⅛"	**45AE83**
Under Counter							
12 gal.	Manual	2	1	18⅛"	43⅛"	18⅛"	**45AE84**
Standard							
12 gal.	Manual	1	1	35"	23"	18"	**42X503**
12 gal.	Self-Closing	1	1	36⅜"	23"	18"	**45AE87**
16 gal.	Manual	1	1	44"	23"	18"	**42X496**
22 gal.	Manual	2	1	35"	35"	22"	**42X497**
22 gal.	Self-Closing	1	2	66⅜"	23⅝"	18⅛"	**45AE81**
24 gal.	Manual	2	4	44"	43"	12"	**42X498**
30 gal.	Manual	2	1	44"	43"	18"	**42X499**
30 gal.	Self-Closing	2	1	45⅜"	43"	18"	**45AE86**
45 gal.	Manual	2	2	65"	43"	18"	**42X501**
45 gal.	Self-Closing	2	2	66⅜"	43"	18"	**45AE88**
60 gal.	Manual	2	2	65"	34"	34"	**42X502**
60 gal.	Self-Closing	2	2	66⅜"	34"	34"	**45AE82**
90 gal.	Manual	2	2	65"	43"	34"	**45AE85**
90 gal.	Self-Closing	2	2	66⅜"	43"	34"	**45AE89**



Under Counter
No. 19T253



Slimline
No. 19T248



Standard
No. 19T256



Standard with Legs
No. 19T289

Steel Flammable Liquid Safety Storage Cabinets

Jamco Products

- Meet OSHA and NFPA Code 30 Standards
- FM Approved

Cabinets are easily identified for storage of flammable liquids, with powder-coat yellow finish and safety signage in large red letters. Galvanized steel shelves adjust on 3" centers. Lockable flush-mounted handle with two keys. Welded 18-ga. construction with 14-ga. door front panels for greater protection. Standard with Legs Cabinets have 4"H legs.

						DOOR TYPE			
						SELF-CLOSING		MANUAL	
Cap.	No. of Doors	No. of Shelves	H	W	D	Mfr. Model	Item No.	Mfr. Model	Item No.
Under Counter									
12 gal.	1	1	35"	24"	22"	BK12YP	**19T253**	—	—
30 gal.	2	1	35"	48"	22"	BK30YP	**19T255**	BT30YP	**19T278**
Slimline									
12 gal.	1	1	35"	23"	18"	BJ12YP	**19T248**	BA12YP	**19T242**
60 gal.	1	4	65"	23"	34"	BJ60YP	**19T252**	BA60YP	**19T246**
Standard									
120 gal.	2	2	65"	59"	34"	—	—	BM120YP	**19T256**
Standard with Legs									
28 gal.	2	2	49"	34"	18"	—	—	FM28YP	**19T280**
30 gal.	2	2	49"	43"	18"	FS30YP	**19T287**	—	—
44 gal.	2	3	70"	34"	18"	—	—	FM44YP	**19T282**
45 gal.	2	2	70"	43"	18"	FS45YP	**19T289**	—	—
60 gal.	2	2	70"	34"	34"	FS60YP	**19T290**	FM60YP	**19T284**
90 gal.	2	2	70"	43"	34"	FS90YP	**19T291**	FM90YP	**19T285**

Find more Safety Storage Cabinet information on page 1868.



Standard
Yellow
No. K2469



Standard with Legs
No. 55EA72



Benchtop
Yellow
No. K2479



Space Saver
Yellow
No. K2476



Stackable
No. 19T260



Wall Mount
Yellow
No. K2478

EAGLE® Jamco Products JUSTRITE®

Steel Safety Storage Cabinets

- Meet OSHA and NFPA Code 30 Standards
- FM Approved, except 2- and 4-gal. cabinets

Constructed of fully welded 18-ga. galvanized steel with powder-coat finish. Feature flush-mounted handle with key lock and shelf brackets on 4¾" centers.

Standard—For storing flammable liquids in containers with up to 5-gal. capacity.

Standard with Legs—Fork-liftable cabinets feature 4" legs to elevate cabinets off the floor.

Benchtop—Smaller-size cabinets can be closer to the work area.

Space Saver—Ideal when space is limited.

Stackable—Stack units to add space where needed.

Wall Mount—Provide convenient eye-level storage.

Cap.	Safety Cabinet Door Type	▶CHOOSE: Color	No. of Doors	No. of Cabinet Shelves	H	W	D	Additional Shelf	Brand	Mfr. Model	Item No.
Standard											
30 gal	Manual	Gray, Red, Yellow	2	1	44 in	43 in	18 in	1YNH7	Eagle	1932	**K2468**
30 gal	Self-Closing	Red, Yellow	2	1	44 in	43 in	18 in	1YNH7	Eagle	3010	**K2469**
45 gal	Manual	Beige, Gray, Red, Yellow	2	2	65 in	43 in	18 in	1YNH7	Eagle	1947	**K2470**
45 gal	Self-Closing	Beige, Gray, Red, White, Yellow	2	2	65 in	43 in	18 in	1YNH7	Eagle	4510	**K2471**
60 gal	Self-Closing	Gray, Red, Yellow	2	2	65 in	34 in	34 in	1YNG4	Eagle	6010	**K2472**
90 gal	Manual	Yellow	2	2	65 in	43 in	34 in	1YNG5	Eagle	1992	**55EC24**
90 gal	Self-Closing	Yellow	2	2	65 in	43 in	34 in	1YNG5	Eagle	9010	**55EC22**
Standard with Legs											
12 gal	Manual	Yellow	1	1	39 in	23 ¼ in	18 in	13M431	Eagle	1925	**55EA72**
16 gal	Manual	Yellow	1	1	48 in	23 ¼ in	18 in	13M431	Eagle	1906	**55EA77**
16 gal	Self-Closing	Yellow	1	1	48 in	23 ¼ in	18 in	13M431	Eagle	1905	**55EA75**
30 gal	Manual	Yellow	2	1	48 in	43 in	18 in	1YNH7	Eagle	1932	**55EA93**
30 gal	Self-Closing	Yellow	2	1	48 in	43 in	18 in	1YNH7	Eagle	3010	**55EA89**
45 gal	Manual	Yellow	2	2	69 in	43 in	18 in	1YNH7	Eagle	1947	**55EC08**
45 gal	Self-Closing	Yellow	2	2	69 in	43 in	18 in	1YNH7	Eagle	4510	**55EC01**
60 gal	Self-Closing	Yellow	2	2	69 in	34 in	34 in	1YNG4	Eagle	6010	**55EC17**
90 gal	Manual	Yellow	2	2	69 in	43 in	34 in	1YNG5	Eagle	1992	**55EC25**
90 gal	Self-Closing	Yellow	2	2	69 in	43 in	34 in	1YNG5	Eagle	9010	**55EC23**
Benchtop											
2 gal	Manual	Yellow	1	1	18 in	17 in	17 in	4HTZ4	Eagle	1901	**55EA60**
2 gal	Self-Closing	Yellow	1	1	18 in	17 in	17 in	4HTZ4	Eagle	1900	**55EA59**
4 gal	Manual	Yellow	1	1	22 in	17 in	17 in	4HTZ4	Eagle	1904	**55EA62**
4 gal	Self-Closing	Beige, Yellow	1	1	22 in	17 in	17 in	4HTZ4	Eagle	1903	**K2479**
Space Saver											
12 gal	Manual	Beige, Gray, Red, Yellow	1	1	35 in	23 ¼ in	18 in	13M431	Eagle	1925	**K2473**
12 gal	Self-Closing	Beige, Gray, Red, White, Yellow	1	1	35 in	23 ¼ in	18 in	13M431	Eagle	1924	**K2474**
16 gal	Manual	Red, Yellow	1	1	44 in	23 ¼ in	18 in	13M431	Eagle	1906	**K2480**
16 gal	Self-Closing	Yellow	1	1	44 in	23 ¼ in	18 in	13M431	Eagle	1905	**55EA74**
24 gal	Manual	Red, Yellow	1	3	65 in	23 ¼ in	18 in	13M431	Eagle	1923	**K2475**
24 gal	Self-Closing	Gray, Red, Yellow	1	3	65 in	23 ¼ in	18 in	13M431	Eagle	2310	**K2476**
Stackable											
12 gal	Self-Closing	Red	1	1	22 in	23 in	18 in	GS123	Jamco	BN12	**19T260**
15 gal	Manual	Yellow	2	1	24 in	43 in	18 in	1YNH7	Eagle	ADD1	**55EA73**
15 gal	Self-Closing	Yellow	1	1	44 in	23 ¼ in	18 in	—	Justrite	8915	**4HTV8**
Wall Mount											
24 gal	Manual	Red, Yellow	2	3	44 in	43 in	12 in	8F988	Eagle	1976	**K2477**
24 gal	Self-Closing	Red, Yellow	2	3	44 in	43 in	12 in	8F988	Eagle	1975	**K2478**

**** Code states that not more than 60 gal. may be Class I and Class II liquids.***

Cabinet Accessories

JUSTRITE® GA GRAINGER APPROVED

Galvanized steel Shelves resist corrosion. Corrosion-resistant Shelf/Bottom Trays protect cabinet shelves from corrosives and spills.

Description	Material	Color	H	W	D	Brand	Mfr. Model	Item No.
Additional Shelves								
Metal Shelf for 2-and 4-gal. Cabinets	Galvanized Steel	Silver	2"	14"	13"	Justrite	29935	**4HTZ4**
Metal Shelf for 12-, 16-, 24-gal. Cabinets	Galvanized Steel	Silver	2"	19⅝"	14"	Justrite	29936	**13M431**
Metal Shelf for 15-, 17-, 30-, 40-, 45-gal. Cabinets	Galvanized Steel	Silver	1"	39⅜"	14"	Justrite	29937	**1YNH7**
Metal Shelves for 48-gal. Cabinets, Pkg. of 2	Galvanized Steel	Silver	2"	19⅝"	29"	Justrite	29941	**13M432**
Metal Shelf for 60-and 96-gal. Cabinets	Galvanized Steel	Silver	2"	30⅜"	29"	Justrite	29944	**1YNG4**
Metal Shelf for 60-and 96-gal. Cabinets	Galvanized Steel	Silver	—	39¼"	8⅝"	Justrite	29938	**8F988**
Metal Shelves for 90-gal. Cabinets, Pkg. of 2	Galvanized Steel	Silver	1"	39⅜"	29"	Justrite	29945	**1YNG5**
Shelf/Bottom Trays								
Shelf/Bottom Tray for 2- and 4-gal. Cabinets	Polyethylene	Yellow	1"	13½"	—	Justrite	25934	**13M380**
Shelf/Bottom Tray for 15-, 30- and 45-gal. Cabinets	Polyethylene	Yellow	2"	38¾"	13½"	Justrite	29962	**13M445**
Shelf/Bottom Tray for 12-, 16-, 24-gal. Cabinets	Polyethylene	Yellow	2"	18½"	13⅞"	Justrite	29968	**13M447**
Shelf/Bottom Tray for 60-gal. Cabinets	Polyethylene	Yellow	2"	29¾"	29½"	Justrite	29961	**13M444**
Bond Wire								
Bond Wire with 2 Clips, 3-ft.						GA	08500	**13M344**
Bond Wire with C-Clamp and Clip						GA	08501	**13M345**



No. 13M431



No. 13M447



No. 13M344

Find more Safety Storage Cabinet information on page 1868.



Standard
No. 1YND9



Standard
Red
No. E4579



Standard
Gray
No. E4577



Standard with
Safety Cans
No. 4HTU4



Slimline
No. 1YNG8



Countertop
No. 13M525



Stackable
No. 1YNG7

JUSTRITE®

Steel Safety Storage Cabinets

- FM Approved except Nos. 1AKG3, 4KPX5, and 4-gal. cabinets
- Meet OSHA and NFPA Code 30 Standards

Constructed of fully welded, 18-ga. galvanized steel with powder-coat finish. U-Loc™ paddle handle with slip-resistant grip features fail-safe, 3-point self-latching system and 2 keys; will accept a padlock for added security. SpillSlope™ shelves adjust on 3" centers and have built-in troughs to catch drips and lead to leakproof sump. Haz-Alert™ reflective labeling for added safety.

Standard—Nos. 1AKG3 and 4KPX5 feature a dual-padlock steel security bar.

Standard with Safety Cans—Cabinet has a 2" leakproof sump and includes Type I, 5-gal. red galvanized steel safety can No. 6AW03, also sold separately on page 1874.

- Can is UL Listed

Slimline—Slim width allows extra storage space.

Countertop—Ideal anywhere space is at a premium.

Stackable—Stack or mount on top of 30- and 45-gal. cabinets. Can also be wall- or bench-mounted.

Under Counter Mount—Recessed 2½" kick plate mounts flush with other cabinetry. Dual vents on back wall provide increased airflow.

Cap.	Door Type	▶CHOOSE: Color	No. of Doors	No. of Shelves	H	W	D	Additional Shelf	Mfr. Model	Item No.	
Standard											
12 gal.	Manual	Yellow	1	1	35"	23¼"	18"	—	891200	**1YNF5**	
12 gal.	Self-Closing		1	1	35"	23¼"	18"	—	891220	**1YNF6**	
30 gal.	Manual		2	1	44"	43"	18"	1YNH7	893000	**1YND9**	
30 gal.	Self-Closing		2	1	44"	43"	18"	1YNH7	893020	**1YNE1**	
45 gal.	Manual	Red, Yellow	2	2	65"	43"	18"	1YNH7	894501, 894500	**E4576**	
45 gal.	Self-Closing		2	2	65"	43"	18"	1YNH7	894521, 894520	**E4579**	
45 gal.	Self-Closing	Yellow	1	2	65"	43"	18"	1YNH7	894580	**1YNE7**	
45 gal.	Manual		2	2	65"	43"	18"	1YNH7	29884Y	**1AKG3**	
45 gal.	Self-Closing		2	2	65"	43"	18"	1YNH7	SC29884Y	**4KPX5**	
60 gal.	Manual	Gray, White	2	2	65"	34"	34"	1YNG4	896003, 896005	**E4577**	
60 gal.	Self-Closing	White, Yellow	2	2	65"	34"	34"	1YNG4	896025, 896020	**E4580**	
90 gal.	Manual	Yellow	2	2	65"	43"	34"	1YNG5	899000	**1YNG2**	*
90 gal.	Self-Closing		2	2	65"	43"	34"	1YNG5	899020	**1YNG3**	*
Standard with Safety Cans											
45 gal. with (9) Safety Cans	Manual	Yellow	2	2	65"	43"	18"	1YNH7	8945008	**4HTU4**	
Slimline											
22 gal.	Manual	Yellow	1	3	65"	23¼"	18"	—	892200	**1YNG8**	
Countertop											
4 gal.	Manual	White, Yellow	1	1	22"	17"	17"	—	890405, 890400	**E4581**	
4 gal.	Self-Closing	Yellow	1	1	22"	17"	17"	—	8904205	**13M525**	
Stackable											
17 gal.	Manual	Yellow	2	1	24"	43"	18"	1YNH7	891700	**1YNG7**	
17 gal.	Self-Closing		2	1	24"	43"	18"	1YNH7	891720	**1YNH6**	
Under Counter Mount											
22 gal.	Self-Closing	Yellow	2	1	35"	35"	22"	—	892320	**1YNF9**	

** Code states that not more than 60 gal. may be Class I and Class II liquids.*



Cabinet Riser
Leg Frame
No. 2RYJ2

Cabinet Rolling Cart
No. 2RYJ1

Cabinet Accessories

JUSTRITE®

Seismic Bracket Kit—Ideal in environments where secure placement is required. Mounting hardware included.

Cabinet Riser Leg Frame—Allows for easy movement of empty 30- and 45-gal. cabinets that have a 43"W x 18"D footprint with a forklift or pallet jack. Mounting hardware included.

Cabinet Rolling Cart—Safe, secure way to transport 30-gal. cabinets that have a 43"W x 18"D footprint. Includes built-in grounding wire.

Description	H	W	D	Item No.
Accessories				
Seismic Bracket Kit	4"	48"	4"	**2RYH9**
Cabinet Riser Leg Frame	5¼"	43¾"	18¾"	**2RYJ2**
Cabinet Rolling Cart	42"	43¼"	18¼"	**2RYJ1**
Additional Shelves				
Metal Shelf for 15-, 17-, 30-, 40-, 45-gal. Cabinets	1"	39⅜"	14"	**1YNH7**
Metal Shelf for 60-and 96-gal. Cabinets	2"	30⅜"	29"	**1YNG4**
Metal Shelves for 90-gal. Cabinets, Pkg. of 2	1"	39⅜"	29"	**1YNG5**

Find more Safety Storage Cabinet information on page 1868.



Paint and Ink
No. 6VTG6



Flammable Liquids
with Legs
No. 55EC11



Corrosive
Modular Qwik Assembly
No. 45UW92



Pesticide
No. 3NPJ1



Aerosol Can
No. 1YNG6



Corrosive
No. 1YNH8

JUSTRITE® EAGLE® Jamco Products

Specialty Safety Storage Cabinets

- Steel cabinets (except No. 32XT36) meet OSHA and NFPA Code 30 Standards
- FM Approved, except 4-gal. steel cabinets (Nos. 1YNG6 and 1YNH8) and all polyethylene cabinets

18-ga. galvanized steel cabinets have powder-coat finish. Justrite® models feature a padlockable U-Loc™ paddle handle, SpillSlope™ shelves, and Haz-Alert™ labeling. Eagle models feature recessed paddle handle with key lock and shelf brackets. Polyethylene cabinets include 1-gal. internal and top sump areas, integral handles with locking tab and door storage area. Jamco® model includes paddle latch, adjustable shelf, and two polyethylene trays.

Paint and Ink—Cabinets have a baked-on, high-gloss epoxy powder-coat finish.

Flammable Liquid—These cabinets have a high-gloss power coated red finish with a yellow warning message. They feature a 3-point latch system and 2" raised, leakproof door sill.

Aerosol Can—Epoxy/polyester powder-coat finish for chemical resistance. Smaller-footprint, nontip cabinets are wall-mountable.

Corrosive—Clearly labeled for acid/corrosive contents. Lockable handles. Galvanized Steel cabinets have a corrosion-resistant powder finish.

Corrosive Modular Quik-Assembly—Ideal for labs and industrial settings. Lockable doors open 180°. Adjustable shelves.

Pesticide—High-gloss powder-coat finish. Inside bottom polyethylene platform and poly shelf trays.

Cap.	H	W	D	Door Type	No. of Shelves	Color	No. of Doors	Additional Shelf	Brand	Mfr. Model	Item No.
Paint and Ink - Galvanized Steel Standard Cabinets											
60 gal.	65"	43"	18"	Manual	5	Red	2	1YNH7	Justrite	894511	**6VTG6**
60 gal.	65"	43"	18"	Self-Closing	5	Red	2	1YNH7	Justrite	894531	**6VTG7**
Flammable Liquids - Steel Standard Cabinets											
60 gal.	65"	43"	18"	Manual	5	Red	2	1YNH7	Eagle	PI47X	**55EC09**
60 gal.	65"	43"	18"	Manual	5	Yellow	2	1YNH7	Eagle	YPI47X	**55EC12**
60 gal.	65"	43"	18"	Self-Closing	5	Red	2	1YNH7	Eagle	PI4510X	**55EC02**
60 gal.	65"	43"	18"	Self-Closing	5	Yellow	2	1YNH7	Eagle	YPI4510X	**55EC03**
96 gal.	65"	34"	34"	Self-Closing	5	Red	2	1YNG4	Eagle	PI62X	**55EC20**
96 gal.	65"	34"	34"	Self-Closing	5	Red	2	1YNG4	Eagle	PI6010X	**55EC18**
Flammable Liquids - Steel Standard Cabinets with Legs											
60 gal.	69"	43"	18"	Manual	5	Red	2	1YNH7	Eagle	PI47XLEGS	**55EC11**
60 gal.	69"	43"	18"	Manual	5	Yellow	2	1YNH7	Eagle	YPI47XLEGS	**55EC13**
96 gal.	69"	34"	34"	Self-Closing	5	Red	2	1YNG4	Eagle	PI62XLEGS	**55EC21**
Flammable Liquids - Steel Wall Mount Cabinets											
24 gal.	44"	43"	12"	Manual	3	Red	2	8F988	Eagle	1976XRED	**55EA81**
24 gal.	44"	43"	12"	Self-Closing	3	Red	2	8F988	Eagle	1975XRED	**55EA79**
Aerosol Can - Galvanized Steel Benchtop Cabinet											
4 gal.	27"	21"	18"	Manual	1	Yellow	1	—	Justrite	890500	**1YNG6**
Aerosol Can - Steel Standard Cabinets											
30 gal.	65"	43"	12"	Manual	5	Red	2	8F988	Eagle	PI77X	**55EC32**
30 gal.	65"	43"	12"	Self-Closing	5	Red	2	8F988	Eagle	PI7710X	**55EC30**
30 gal.	65"	43"	12"	Self-Closing	5	Yellow	2	8F988	Eagle	YPI7710X	**55EC31**
Corrosive - Galvanized Steel Standard Cabinets											
45 gal.	65"	43"	18"	Manual	2	Blue	2	—	Justrite	894502	**4HTY9**
45 gal.	65"	43"	18"	Self-Closing	2	Blue	2	—	Justrite	894522	**9GMP6**
60 gal.	65"	34"	34"	Manual	2	Blue	2	—	Justrite	896002	**4HTZ1**
60 gal.	65"	34"	34"	Self-Closing	2	Blue	2	—	Justrite	896022	**4HTZ2**
Corrosive - Galvanized Steel Stackable Cabinets											
12 gal.	18"	43"	18"	Manual	0	Blue	2	—	Justrite	891302	**4HTY4**
17 gal.	24"	43"	18"	Manual	1	Blue	2	—	Justrite	891702	**4HTY6**
Corrosive - Galvanized Steel Under Counter Cabinets											
12 gal.	35"	23¼"	18"	Self-Closing	1	Blue	1	—	Justrite	891222	**4KPX3**
22 gal.	35"	35"	22"	Manual	1	Blue	2	—	Justrite	892302	**1YNF4**
22 gal.	35"	35"	22"	Self-Closing	1	Blue	2	—	Justrite	892322	**8XCN1**
30 gal.	44"	43"	18"	Manual	1	Blue	2	—	Justrite	893002	**4HTY7**
Corrosive - Galvanized Steel Benchtop Cabinet											
4 gal.	22"	17"	17"	Manual	1	Blue	1	—	Justrite	890402	**1YNH8**
Corrosive - Steel Benchtop Cabinet											
15 gal.	44"	23¼"	18"	Self-Closing	1	Blue	1	—	Justrite	861528	**32XT36**
Corrosive - Polyethylene Stackable Cabinets, Modular Qwik Assembly											
4 gal.	22"	18"	18"	Manual	2	Blue	1	—	Eagle	M04CRA	**45UW81**
12 gal.	36"	18"	22"	Manual	2	Blue	1	—	Eagle	M12CRA	**45UW86**
48 gal.	72"	36"	22"	Manual	8	Blue	4	—	Eagle	M48CRA	**45UW92**
Pesticide - Galvanized Steel Standard Cabinets											
12 gal.	35"	23¼"	18"	Manual	1	Green	1	—	Justrite	891204	**3NPH6**
30 gal.	38¼"	43"	18"	Manual	1	Green	2	1YNH7	Justrite	893004	**3NPH8**
45 gal.	65"	43"	18"	Manual	2	Green	2	1YNH7	Justrite	894504	**3NPH9**
60 gal.	65"	34"	34"	Manual	2	Green	2	—	Justrite	896004	**3NPJ1**
Pesticide - Galvanized Steel Cabinet											
30 gal.	44"	18"	43"	Manual	1	Green	2	GL143	Jamco	FL30EP	**36WJ14**

** Code states that not more than 60 gal. may be Class I and Class II liquids.*

Specialty Cabinet Shelves

JUSTRITE®

Add function and convenience with additional shelves. Galvanized steel shelves resist corrosion.

Description	H	W	D	Mfr. Model	Item No.
Metal Shelf for 15-, 17-, 30-, 40-, 45-gal. Cabinets	1"	39⅜"	14"	29937	**1YNH7**
Metal Shelf for 60-and 96-gal. Cabinets	2"	30⅜"	29"	29944	**1YNG4**
Metal Shelf for 60-and 96-gal. Cabinets	—	39¼"	8⅝"	29938	**8F988**

** Not for use with Aerosol Can Cabinets.*



No. 1YNH7

Find more Safety Storage Cabinet information on page 1868.



Horizontal 1-Drum, Flammable Liquids Cabinet No. 1YNF2 and Cradle No. 1BC80 (Sold Separately)



Vertical 1-Drum, Flammable Liquids Cabinet No. 55EC28



Vertical 2-Drum, Flammable Liquids Cabinet No. 13M581

Vertical 1-Drum, Flammable Chemicals Cabinet No. 8E868





Vertical 1-Drum, Paint and Ink Cabinet No. 13M576



Vertical 2-Drum, Flammable Liquids Cabinet with Rollers No. 1YNH2

JUSTRITE®

EAGLE®

Jamco Products

Steel Hazardous Waste and Flammable Drum Storage Cabinets

- Meet OSHA and NFPA 30 Standards
- Vertical 1-Drum Cabinets are FM Approved, except No. 13M581

Constructed of fully welded 18-ga. galvanized steel (except Nos. 55EC26 through 55EC29 are steel) with powder-coat yellow finish. Eagle® models feature flush-mounted handle with key lock and shelf bracket with 4¾" centers. Justrite® models feature U-Loc™ paddle handle with slip-resistant grip and 2 keys plus will accept a padlock for added security. SpillSlope™ shelves adjust on 3" centers and have built-in troughs to catch drips and lead to leakproof sump. Haz-Alert™ reflective labeling for added safety. Jamco models feature a flush-mounted, lockable handle (2 keys) with a 2" leakproof sill to contain any spills.

Flammable Cabinets—Have upper and lower vents, which provide connections for 2" threaded fittings. Justrite and Eagle vertical models include 1 shelf. Nos. 4HTX2, 1YNH2 and 6VTG5 have rollers inside the bottom to assist in loading and unloading.

Drum Cradle—Easily moves horizontal 55-gal. drums up to 800 lb.

Cabinet Ramps—Fit over sill to keep securely in place for moving drums.

Cap.	Color	Safety Cabinet Door Type	No. of Doors	H	W	D	Brand	Mfr. Model	Item No.	
Horizontal 1-Drum, Counter Height, Flammable Liquids										
55 gal.	Yellow	Manual	2	50"	30"	48"	Justrite	899300	**1YNF2**	
55 gal.	Yellow	Self-Closing	2	50"	30"	48"	Justrite	899320	**9RCA4**	
Vertical 1-Drum with Rollers, Full Height, Flammable Liquids										
55 gal.	Yellow	Self-Closing	2	65"	34"	34"	Justrite	896270	**4HTX2**	
Vertical 1-Drum, Full Height, Flammable Liquids										
55 gal.	Yellow	Manual	2	65"	34"	34"	Justrite	896200	**1YNF3**	
55 gal.	Yellow	Manual	2	65"	34"	34"	Eagle	HAZ1926X	**55EC29**	
55 gal.	Yellow	Self-Closing	2	65"	34"	34"	Eagle	HAZ2610X	**55EC28**	
Vertical 1-Drum, Full Height, Flammable Chemicals										
55 gal.	Yellow	Manual	2	65"	34"	34"	Jamco	BV1YP	**8E868**	
55 gal.	Yellow	Self-Closing	2	65"	34"	34"	Jamco	BW1YP	**8EC28**	
Vertical 1-Drum, Full Height, Flammable Paint and Ink										
60 gal.	Red	Self-Closing	2	65"	43"	34"	Justrite	899071	**13M576**	
96 gal.	Red	Self-Closing	2	65"	34"	34"	Justrite	896091	**13M567**	
Vertical 2-Drum with Rollers, Full Height, Flammable Liquids										
110 gal.	Yellow	Manual	2	65"	59"	34"	Justrite	899160	**1YNH2**	*
110 gal.	Yellow	Self-Closing	2	65"	59"	34"	Justrite	899170	**6VTG5**	
Vertical 2-Drum, Full Height, Flammable Liquids										
110 gal.	Yellow	Self-Closing	2	65"	59"	34"	Justrite	899120	**13M581**	
110 gal.	Yellow	Self-Closing	2	65"	59"	34"	Eagle	HAZ5510X	**55EC26**	
110 gal.	Yellow	Manual	2	65"	59"	34"	Eagle	HAZ1955X	**55EC27**	
Vertical 2-Drum, Full Height, Flammable Chemicals										
110 gal.	Yellow	Manual	2	65"	59"	34"	Jamco	BV2YP	**9UA25**	
Drum Cradle										
For 55-gal. Horizontal Drum Cabinet No. 1YNF2							Justrite	08800	**1BC80**	
Cabinet Ramps										
For Justrite Cabinets							Justrite	25932	**13M378**	
For Eagle Cabinets							Eagle	1957	**24JU75**	

**** Code states that not more than 60 gal. may be Class I and Class II liquids.***



Find more Safety Storage Cabinet information on page 1868.

DENIOS
THE HAZMAT PRO®

Outdoor Storage Lockers

- 90 mph wind rating
- Lockable hinged doors
- Sumps are sized to provide compliant spill volumes
- FM Approved, except Nos. 8DPR3 and 9UA63

Safely store flammables and hazardous chemicals. All lockers include spill-compliant sump, passive ventilation, exterior grounding lug, anchoring point, and NFPA 704 placard.

NONCOMBUSTIBLE IBC STORAGE LOCKERS—K17 SERIES

Designed for small volume storage and processing.

NONCOMBUSTIBLE OUTDOOR STORAGE—N05 SERIES

Durable 11-ga. welded steel for exterior drum storage.

2-HR. FIRE-RATED STORAGE LOCKERS

Firewall design complies with fire rating requirements for storage of flammables within 10 ft. of your facility. Drum lockers are suitable for storing, collecting, and filling small containers and drums.

Cabinet Storage Cap.	Load Cap.	Color	H	W	D	NONCOMBUSTIBLE Sump Cap.	NONCOMBUSTIBLE Mfr. Model	NONCOMBUSTIBLE Item No.	2-HOUR FIRE RATING Sump Cap.	2-HOUR FIRE RATING Mfr. Model	2-HOUR FIRE RATING Item No.
IBC Storage Lockers											
(2) 350 gal. IBC Totes	10,000 lb.	Blue	88"	153"	70"	450 gal.	K17-3585	**9AM05**	423 gal.	P19-1300	**8DPR3** *
(1) 350 gal. IBC Totes	5000 lb.	Blue	100"	98"	70"	540 gal.	K17-3583	**8NJT8**	—	—	—
(1) 350 gal. IBC Totes	5000 lb.	Blue	100"	99"	70"	—	—	—	438 gal.	P19-1250	**9UA63** *
Outdoor Storage Lockers											
(2) 55 gal. Drums	1200 lb.	Blue	98"	58"	74"	—	—	—	—	N05-4004	**56EC63**
(2) 55 gal. Drums	1200 lb.	Blue	98"	54"	73"	—	N05-3004	**56EC61**	—	—	—
(4) 55 gal. Drums	2400 lb.	Blue	98"	69"	78"	—	—	—	—	N05-4009	**56EC64**
(4) 55 gal. Drums	2400 lb.	Blue	98"	66½"	73"	—	N05-3009	**56EC62**	—	—	—
(6) 55 gal. Drums	3600 lb.	Blue	98"	68"	92"	—	—	—	—	N05-4015	**56EC65**
(6) 55 gal. Drums	3600 lb.	White	98"	118"	70"	170 gal.	N05-3015	**5NTR6**	—	—	—
(8) 55 gal. Drums	4800 lb.	Blue	98"	72"	144"	—	—	—	—	N05-4020	**56EC66**
(8) 55 gal. Drums	4800 lb.	White	98"	143"	70"	209 gal.	N05-3020	**5NTR7**	—	—	—
(10) 55 gal. Drums	6000 lb.	White	98"	168"	70"	256 gal.	N05-3030	**5NTR8**	—	—	—
(12) 55 gal. Drums	7200 lb.	Blue	102"	68"	169"	—	—	—	—	N05-4035	**56EC67**
(12) 55 gal. Drums	7200 lb.	White	98"	193"	70"	304 gal.	N05-3035	**5NTR9**	—	—	—
(14) 55 gal. Drums	8400 lb.	Blue	67"	102"	215"	—	—	—	—	N05-4040	**56EC68**
(14) 55 gal. Drums	8400 lb.	White	98"	230"	70"	388 gal.	N05-3040	**5NTT0**	—	—	—

** Assembled.*



Noncombustible—K17 Series No. 9AM05



Noncombustible—N05 Series No. 5NTR8



2-Hour Fire Rated No. 56EC67

GA GRAINGER APPROVED | Condor | DURHAM MFG Est. 1922 | JUSTRITE

Gas Cylinder Storage Cabinets

Meet all relevant NFPA and OSHA Standards for storing dangerous and flammable materials, except Nos. 8W147 and 8E498 meet OSHA only. Assembled models are welded.

Note: Lock not included. See Index under "Locks" or go to Grainger.com®.

Cylinder Cap./Type	Construc.	H	W	D	Brand	Item No.
Unassembled						
4 Horizontal	Expanded Metal, Angle Iron Frame	35"	31"	30"	Condor	**5CHL0**
8 Horizontal		65"	31"	30"	Condor	**5CHL1**
8 Horizontal, 9 Vertical		65"	60"	30"	Condor	**5CHL4**
9 Vertical		65"	31"	30"	Condor	**5CHL5**
16 Horizontal		65"	60"	30"	Condor	**5CHL2**
18 Vertical		65"	60"	30"	Condor	**5CHL3**
Assembled						
2 Vertical	Welded	35"	20"	30"	Condor	**491M93**
4 Vertical		34⅛"	30⅛"	29¾"	Condor	**491M79**
4 Horizontal		34⅛"	30⅛"	29¾"	Condor	**491M88**
8 Horizontal		71¾"	30"	30"	Condor	**491M90**
9 Vertical		71¾"	30"	29¾"	Condor	**491M95**
8 Horizontal, 9 Vertical	Expanded Metal, Angle Iron, Fully Welded	71¾"	60"	30"	Durham Mfg	**4HY14**
10 to 20 Vertical	Welded	71"	64"	40"	GA	**8W147**
12 Horizontal		71"	50"	40"	GA	**8E498**
12 Horizontal		71¾"	50"	42"	Condor	**491M77**
16 Horizontal	Expanded Metal, Angle Iron, Fully Welded	71¾"	60"	30"	Durham Mfg	**4HY10**
18 Vertical		71¾"	60"	30"	Durham Mfg	**4HY12**
20 Vertical	Welded Aluminum	65"	60"	32"	Justrite	**4HUA5**



Horizontal Storage No. 5CHL1



Horizontal and Vertical Storage No. 4HY14



Vertical Storage No. 4HY12

Propane Cylinder Storage Cabinets

Vestil

- 10-ga. welded steel
- White painted finish

Durable cabinets are ideal for storage of standard #20 propane gas cylinders. Each shelf can hold 6 cylinders. Lockable front door (padlock not included) constructed of expanded steel mesh or solid steel. Back and sides are steel mesh and top is solid sheet steel. Include red-letter unattached signage with verbiage: "PROPANE EXCHANGE" and "FLAMMABLE-NO SMOKING". Meet NFPA 58 and OSHA Section 1910.110 design standards.

Cylinder Cap./Type	H	W	D	Item No.
Expanded Steel Mesh Door				
12 Vertical	44⅛"	40"	32⅛"	**6HCA4**
18 Vertical	68¼"	40"	32⅛"	**6HCA5**
Solid Steel				
12 Vertical	44⅛"	40"	32⅛"	**6HCA2**
18 Vertical	68¼"	40"	32⅛"	**6HCA3**



No. 6HCA2


No. 6AV78


No. 2W428


No. 6AG08


No. 6AW03


No. 2W313


No. 3NKR5

Cap.	Color	Std.	Outside Dia.	H	Brand	Mfr. Model	Item No.	
Type I Galvanized Steel Safety Cans, Funnels Sold Separately Below								
⅛ gal.	Red	FM, UL	4 13/16"	6¾"	Justrite	10001	**3LLD5**	
¼ gal.	Red	FM, UL, ULC, TUV	4 13/16"	8¼"	Justrite	10101	**3AN24**	
½ gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	9"	5 5/16"	Eagle	UI4S	**3NKK3**	
1 gal.	Red	FM, UL, ULC, TUV	9½"	11"	Justrite	7110100	**6AV78**	
1 gal.	Red	FM, UL, ULC	7¼"	11½"	Justrite	10301	**6UZN1**	
1 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	9"	8"	Eagle	UI10S	**2W428**	
2 gal.	Red	FM, UL, ULC, TUV	11¾"	13¾"	Justrite	7120100	**5AC08**	
2 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	11¼"	9½"	Eagle	UI20S	**2W429**	
2 gal.	Blue	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	11¼"	9½"	Eagle	UI20SB	**3NKJ8**	
2 gal.	Yellow	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	11¼"	9½"	Eagle	UI20SY	**3NKK1**	
2½ gal.	Red	FM, UL, ULC, TUV	11¾"	11½"	Justrite	7125100	**6AG08**	
5 gal.	Red	FM, UL, ULC, TUV	11¾"	16⅞"	Justrite	7150100	**6AW03**	
5 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	13½"	Eagle	UI50S	**2W313**	
5 gal.	Blue	FM, UL, ULC, TUV	11¾"	16⅞"	Justrite	7150300	**5HE21**	
5 gal.	Blue	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	13½"	Eagle	UI50SB	**4RF73**	
5 gal.	Yellow	FM, UL, ULC, TUV	11¾"	16⅞"	Justrite	7150200	**5HE22**	
5 gal.	Yellow	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	13½"	Eagle	UI50SY	**4RF74**	
5 gal.	Green	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	13½"	Eagle	UI50SG	**2RNY6**	
Type I Polyethylene Safety Cans, Funnels Sold Separately Below								
1 gal.	Red	FM	—	9½"	Justrite	14160	**3NKT4**	*
2½ gal.	Red	FM, UL	10¾"	14¼"	Justrite	14261	**3LLE7**	*
5 gal.	Red	FM, UL	12¾"	16"	Justrite	14561	**3LLD6**	*
Type I Galvanized Steel Safety Can Combo Kit, Include Funnel No. 6X853								
1 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	9"	10"	Eagle	UI10FS	**3NKP8**	
2 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	11¼"	11½"	Eagle	UI20FS	**3NKR2**	
2 gal.	Yellow	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	11¼"	11½"	Eagle	UI20FSY	**3NKR3**	
2½ gal.	Red	FM, UL, ULC, OSHA, NFPA Code 30	11¼"	12"	Eagle	UI25FS	**15Z008**	
5 gal.	Red	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	15½"	Eagle	UI50FS	**3NKR5**	
5 gal.	Blue	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	15½"	Eagle	UI50FSB	**3NKR4**	
5 gal.	Yellow	FM, UL, ULC, OSHA 29 CFR 1910.106, NFPA Code 30	12½"	15½"	Eagle	UI50FSY	**3NKR6**	
Funnels for Type 1 Safety Cans								
For Justrite® 1 gal. or Larger Galvanized Steel Models, 11L x ½" O.D.					Justrite	11202Y	**3AG33**	
For Eagle Galvanized Steel Models, 9L x 1⅛" O.D.					Eagle	F15FUN	**6X853**	

**** Stainless steel hardware.***

JUSTRITE® EAGLE®

Type I Safety Cans

Safety cans with leaktight, self-closing spouts provide temporary storage of flammable liquids such as gasoline (red), kerosene (blue), diesel (yellow), and oil (green). Automatic vent feature protects against rupture or explosion, and flame arrestors protect contents from external ignition sources. Galvanized steel models feature an ergonomic, all-steel handle and chemical-resistant, high-gloss powder-coat finish. High-density polyethylene cans are impervious to many liquid chemicals, solvents, and corrosives.

Type I Safety Cans—Cans have a single opening for both filling and transfer of flammable liquids into containers with wider openings. Justrite® and Eagle galvanized steel cans have a trigger-release cap. Justrite® galvanized steel cans have a full-fisted grip handle that swings for easy handling, except No. 6UZN1 features a trigger handle. Eagle polyethylene cans have stainless steel fittings and a flame arrestor. Justrite® polyethylene cans have plated steel or stainless steel fittings and a flame arrestor and content ID zone for identification of fuels being stored.

Type I Safety Can Combo Kits—Include all the features of Eagle Type I Safety Cans Nos. 2W428, 2W429, 2W313, 4RF73, and 4RF74 with Funnel No. 6X853.

Funnels For Type I Safety Cans—Polyethylene funnels fit Type I cans. No. 3AG33 features a 2-position hinge that allows user to fill or pour without removing the funnel. No. 6X853 self-locks and is FM Approved.


No. 9FA80


No. 19MP69

GA GRAINGER APPROVED

JohnDow Industries

Portable Fuel Caddies

These mobile fuel caddies help you transport fuel safely to jobsites.

GA—Molded-in baffle prevents spills during transport. Spring-loaded nozzle with 2-way rotary hand pump and 10-ft. hose. Calibrated in 2-gal. increments. Polyethylene construction is resistant to chemicals, rust, and dents. Aluminum nonsparking axle and pneumatic tires with nylon bearings and wheel hubs. UN Approved, DOT Approved.

JohnDow Industries—Heavy-duty bidirectional pump provides suction for 5.7 gal./min. @ 72 rpm dispensing (1 gal. per 12 turns). Semipneumatic wheels provide safe, easy movement. Also features 2" filler neck for bulk filling. UL Listed.

Cap.	Color	H	W	D	Brand	Item No.
28 gal.	Red	52"	27½"	22½"	GA	**9FA80**
28 gal.	Yellow	52"	27½"	22½"	GA	**8TTW6**
30 gal.	Red	40"	24"	22½"	John Dow Industries	**19MP69**

GARAGE BOSS WAVIAN USA


No. 55GU76


No. 33UZ30

Fuel Cans

- Meet EPA standards
- DOT and CARB Compliant

Provide temporary storage of flammable liquids such as gasoline (red), diesel (yellow), and kerosene (blue). Child-resistant fuel cans are self-venting for safe and easy pouring with auto shutoff. Angled and tapered design prevents spills, leaks, and reduces gas emissions. Nos. 55GU74–55GU78 have an intuitive press button spout that gives you precision flow control for an accurate, no-mess pour. No. 33UZ30 includes 0.9 mm cold-rolled steel walls, an interior rust-proof Rezol lining, internal breather pipe for splash-proof pouring, a three handle configuration for easy carrying, a leakproof bayonet closure, plus a locking pin for the cap.

GarageBOSS™ Press 'N Pour Spout—For use with all GarageBOSS fuel containers.

Cap.	Color	H	W	Brand	Item No.
Plastic GarageBOSS™ Press 'N Pour Cans					
1 gal.	Red	8"	6"	GarageBOSS	**55GU74**
2 gal.	Red	10"	7"	GarageBOSS	**55GU75**
5 gal.	Red	14"	7"	GarageBOSS	**55GU76**
	Yellow	14"	7"	GarageBOSS	**55GU77**
	Blue	14"	7"	GarageBOSS	**55GU78**
Cold-Rolled Steel Can					
5.28 gal.	Red	19"	6½"	Wavian	**33UZ30**
Plastic GarageBOSS™ Press 'N Pour Replacement Spout					
Auto Shutoff, Self-Venting	Black/Red/White	—	—	GarageBOSS	**55GU79**

EAGLE® JUSTRITE®

Type II Safety Cans and DOT Transport/Dispensing Cans

Galvanized steel safety cans with leaktight, self-closing spouts provide temporary storage of flammable liquids such as gasoline (red), kerosene (blue), diesel (yellow), and oil (green). Feature ergonomic, all-steel handle, flexible metal hose, automatic vent, and flame arrestor. Chemical-resistant, high-gloss powder-coat finish.

Type II Safety Cans—Cans have two openings for filling and pouring and a trigger release cap.
- FM Approved, UL and C-UL Listed, TUV Certified

Type II AccuFlow™ Safety Cans—Vented AccuFlow™ manifold provides superior pour control and precise smooth flow. Features easy-trigger handle, 3½" stainless steel flame arrestor, and quick-open port with ergonomic lift handle. Warning label with extra-large ID zone identifies contents.
- FM Approved, UL and C-UL Listed, TUV Certified

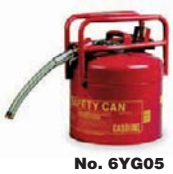
Type II DOT Transport/Dispensing Cans—Specifically designed for applications requiring DOT/UN compliance. Roll bar construction protects the fill and pour mechanism from damage. Dual fusible-link bracket guards against spillage and vapor release during transport. 100% leak tested.
- Meet DOT requirements
- FM and UN Approved

Safety Can Spill Tray—Large diameter surface supports safety cans up to 5-gal. capacity.
- Meet OSHA and NFPA Code 30 Standards
- Carb Compliant


No. 2W314


No. 9JFG0


No. 5HE23


No. 6YG05


No. 1BX14

Cap.	Color	Outside Dia.	H	Hose Length	Hose O.D.	Brand	Mfr. Model	Item No.
Type II Safety Cans								
2½ gal.	Red	11¼"	9½"	12"	⅞"	Eagle	U226S	**2W683**
	Yellow	11¼"	9½"	12"	⅞"	Eagle	U226SY	**3NKU6**
5 gal.	Red	11¼"	15⅞"	12"	⅝"	Eagle	U251SX5	**20GY45**
5 gal	Red	11¼"	15⅞"	12"	⅞"	Eagle	U251S	**2W314**
5 gal.	Blue	11¼"	15⅞"	12"	⅞"	Eagle	U251SB	**3NKU7**
	Yellow	11¼"	15⅞"	12"	⅞"	Eagle	U251SY	**3NKU8**
Type II AccuFlow™ Safety Cans								
1 gal.	Red	9½"	10½"	9"	⅝"	Justrite	7210120	**3NKT5**
	Blue	9½"	10½"	9"	⅝"	Justrite	7210320	**3NKK4**
	Yellow	9½"	10½"	9"	⅝"	Justrite	7210220	**3NKK6**
	Green	9½"	10½"	9"	⅝"	Justrite	7210420	**3NKK5**
2 gal.	Red	9½"	13¼"	9"	⅝"	Justrite	7220120	**3NKT7**
	Blue	9½"	13¼"	9"	⅝"	Justrite	7220320	**3NKL1**
	Yellow	9½"	13¼"	9"	⅝"	Justrite	7220220	**3NKL3**
	Green	9½"	13¼"	9"	⅝"	Justrite	7220420	**3NKL2**
2½ gal.	Red	11¾"	12"	9"	⅝"	Justrite	7225120	**9JFG0**
	Red	11¾"	12"	9"	1"	Justrite	7225130	**5LRG1**
	Blue	11¾"	12"	9"	1"	Justrite	7225330	**3NKJ1**
	Yellow	11¾"	12"	9"	1"	Justrite	7225230	**3NKJ3**
	Green	11¾"	12"	9"	1"	Justrite	7225430	**3NKJ2**
5 gal.	Red	11¾"	17½"	9"	⅝"	Justrite	7250120	**5AK44**
	Red	11¾"	17½"	9"	1"	Justrite	7250130	**3NKT9**
	Yellow	11¾"	17½"	9"	⅝"	Justrite	7250220	**13M486**
	Yellow	11¾"	17½"	9"	1"	Justrite	7250230	**5HE23**
	Blue	11¾"	17½"	9"	1"	Justrite	7250330	**3NKH7**
	Green	11¾"	17½"	9"	1"	Justrite	7250430	**3NKH8**
Type II DOT Transport/Dispensing Cans								
5 gal.	Red	12½"	15¾"	12"	⅞"	Eagle	1215	**6YG05**
AccuFlow™								
2½ gal.	Red	11¾"	12"	9"	⅝"	Justrite	7325120	**5LRG3**
	Red	11¾"	12"	9"	1"	Justrite	7325130	**1BX14**
5 gal.	Red	11¾"	18½"	9"	1"	Justrite	7350130	**3NKU3**
Safety Can Spill Tray								
1 qt.	Red	13¾"	1¼"	—	—	Justrite	10177	**3NKR8**


Nos. 1N760, 1N759, and 1N758


No. 6AV89


No. 5AP05


No. 4T037


No. 2RYG8

JUSTRITE® EAGLE®

Hazardous Liquid Safety Cans

- Meet OSHA Standards
- FM Approved

24-ga. galvanized steel cans with red powder-coat finish are used for general purpose solvents. Polyethylene cans are used with corrosive liquids or alcohol. Plunger and bench cans feature dasher plate to keep contents from ignition sources.

Plunger Cans—Permit fast, easy moistening of cleaning cloths when applying solvents to parts. Surplus liquid drains back into reservoir. Eagle® brand models include brass plunger assembly. Justrite® models have Ryton™ and brass plunger assembly.

Bench Cans—Ideal for easy cleaning of small parts in solvents. Eagle brand models feature spring-loaded, perforated dasher plate. Justrite brand models feature steel dasher plate that serves as an effective flame arrestor. Hinged cover minimizes evaporation loss.

Solvent Can with Tray—Portable, leaktight can features spring-loaded, self-closing lid. Controls VOC emissions and cleaning agents. Accepts standard long cotton-tipped applicators and small cleaning utensils. Tray makes it easy to carry to point-of-use.
- Meets EPA 40 Requirements

Cap.	Material	Outside Dia.	H	Dasher Plate Dia.	Brand	Mfr. Model	Item No.	
Plunger Cans								
1 pt.	Galvanized Steel	4⅞"	5¼"	2¾"	Justrite	10008	**6AP05**	
1 qt.	Polyethylene	5½"	8¼"	5"	Justrite	14018	**6AR07**	
1 qt.	Polyethylene	5¼"	9¾"	5¼"	Eagle	P711	**1N760**	
1 qt.	Galvanized Steel	7¼"	5⅝"	5"	Justrite	10108	**3TCG4**	
1 qt.	Galvanized Steel	6¼"	8"	5¼"	Eagle	P701	**4T038**	
½ gal.	Polyethylene	6½"	11"	5¼"	Eagle	P712	**1N759**	
½ gal.	Galvanized Steel	7¼"	7⅜"	5"	Justrite	10208	**6AV89**	
½ gal.	Galvanized Steel	8"	8½"	5¼"	Eagle	P702	**4T039**	
1 gal.	Polyethylene	7¾"	13"	5¼"	Eagle	P714	**1N758**	
1 gal.	Galvanized Steel	7¼"	10½"	5"	Justrite	10308	**5AV31**	
1 gal.	Galvanized Steel	8"	10¾"	5¼"	Eagle	P704	**4T040**	
Bench Cans								
1 qt.	Galvanized Steel	4⅞"	5½"	4½"	Justrite	10175	**3TCF5**	
1 qt.	Galvanized Steel	6¼"	3⅝"	5"	Eagle	B601	**3KN44**	
½ gal.	Galvanized Steel	9⅜"	3¼"	7½"	Justrite	10295	**3AD27**	
½ gal.	Galvanized Steel	8"	4¼"	7"	Eagle	B602	**4T036**	*
1 gal.	Galvanized Steel	9⅜"	4½"	7½"	Justrite	10375	**3TCG2**	
1 gal.	Galvanized Steel	9⅜"	4½"	7½"	Justrite	10370	**5AP05**	*
1 gal.	Galvanized Steel	8"	6½"	7"	Eagle	B604	**3KN45**	
1½ gal.	Galvanized Steel	7¾"	9½"	7"	Eagle	B606	**3TCF6**	
2 gal.	Galvanized Steel	11½"	5⅞"	9¾"	Justrite	10575	**3TCF7**	
2 gal.	Galvanized Steel	11¼"	7"	9¼"	Eagle	B608	**4T037**	
3 gal.	Galvanized Steel	13½"	6"	12⅛"	Justrite	10775	**3TCF8**	
Solvent Can with Tray								
½ gal.	Galvanized Steel	10½"	7"	—	Justrite	09400	**2RYG8**	

**** Includes parts basket.***


No. 5U737


No. F0097
Red


No. F8383
Red


No. E6820
Silver


No. 3TCH4

EAGLE ® JUSTRITE®

Oily Waste Cans

Available with foot- or hand-operated covers; countertop models are also available. Lid opens to a restricted angle and is self-closing to minimize the risk of spontaneous combustion.

Polyethylene—Impact-resistant noncorrosive polyethylene is impervious to many liquid chemicals, solvents, and corrosives.
- Meet OSHA Standards

Galvanized Steel—Durable, chemical-resistant construction provides extended service life. Red and yellow cans have a powder-coat finish; silver cans have a clear-coat finish. Nos. E6819 through E6822 feature a SoundGard™ lid with specially designed, sound muffling pad to reduce annoying lid closure noise. Ideal for quiet environments.
- UL Listed, except 4KPX1 and F0097
- FM Approved

Cap.	Color	L	W	H	Brand	Mfr. Model	Item No.
Polyethylene							
Self-Closing, Foot-Operated							
6 gal.	Red	16½"	13½"	16"	Eagle	933FL	**5U737**
6 gal.	Yellow	16½"	13½"	16"	Eagle	933FLY	**1YNN1**
10 gal.	Red	22"	18"	18"	Eagle	935FL	**3KN43**
10 gal.	Yellow	22"	18"	18"	Eagle	935FLY	**1YNN2**
14 gal.	Red	22"	18"	21"	Eagle	937FL	**5U738**
14 gal.	Yellow	22"	18"	21"	Eagle	937FLY	**1YNN3**

Cap.	▶CHOOSE: Color	Outside Dia.	H	Brand	Mfr. Model	Item No.
Galvanized Steel						
Countertop						
½ gal.	Red	6½"	6½"	Justrite	09410	**4KPX1**
2 gal.	Red, Yellow	9⅝"	9⅛"	Justrite	09200, 09200Y	**F0097**
Self-Closing, Foot-Operated						
6 gal.	Red, Yellow	11⅞"	15⅞"	Justrite	09100, 09101	**F8383**
10 gal.	Red, Yellow	13 15/16"	18¼"	Justrite	09300, 09301	**F8424**
14 gal.	Red, Yellow	16 1/16"	20¼"	Justrite	09500, 09501	**F8423**
21 gal.	Red, Yellow	18⅜"	23 7/16"	Justrite	09700, 09701	**F8461**
Self-Closing, Foot Operated with SoundGard™						
6 gal.	Red, Silver	11⅞"	15⅞"	Justrite	09108, 09104	**E6819**
10 gal.	Red, Silver	13 15/16"	18¼"	Justrite	09308, 09304	**E6820**
14 gal.	Red, Silver	16 1/16"	20¼"	Justrite	09508, 09504	**E6821**
21 gal.	Red, Silver	18⅜"	23 7/16"	Justrite	09708, 09704	**E6822**
Self-Closing, Hand-Operated						
6 gal.	Red	11⅞"	15⅞"	Justrite	09110	**3TCH4**
10 gal.	Red	13 15/16"	18¼"	Justrite	09310	**3TCH5**
14 gal.	Red	16 1/16"	20¼"	Justrite	09510	**4KPX2**
21 gal.	Red	18⅜"	23 7/16"	Justrite	09710	**3TCH6**


No. 3NKN4


No. 3NKJ4


No. 1AD89


No. 1YNJ4


No. 5AD27


No. 2AF92

JUSTRITE®
EAGLE ®

Safety Containers for Laboratory Environments

Laboratory Faucet Cans—Self-closing faucet provides safe dispensing. Fill spout has pressure-relief cap with flame arrestor. 5-gal. models include a built-in vacuum breaker. Brass faucet, except No. 3NKU4 faucet is stainless steel. Cans are shelf-mounted with a bottom-mount faucet, except Nos. 3NKU4, 3NKJ4, and 3NJX9 faucets are located on the top.
- FM Approved
- No. 3NKJ4 is UL Approved

Self-Close Acid/Corrosive Safety Cans—Store acids and caustics. Spring-close cap provides tight seal. Containers are marked in liters, quarts, and gallons for accurate filling and dispensing.

Bottle Safety Jacket—Protects 4L and 1-gal. glass bottles from breakage. Bottle fits into bottom half of cover, and lid twists securely for safe pouring.

Dispensing Squeeze Bottles—Feature stainless steel wire with shapable stem that dispenses a fine, targeted stream of flammable liquid directly onto or into small objects and allows access to hard-to-reach areas.

Dispensing Bottles—1-handed brass dispensing valves are leakproof and self-closing. Body is textured and shaped for a firm grip.
- FM Approved

Cap.	Color	Material	Outside Dia.	H	Brand	Mfr. Model	Item No.	
Laboratory Faucet Cans								
1 gal.	Red	Polyethylene	7¼"	11½"	Justrite	14169	**3NKU4**	*
5 gal.	Red	Galvanized Steel	11¾"	16⅞"	Justrite	7150150	**1YNJ3**	†
5 gal.	Red	Galvanized Steel	11¾"	16⅞"	Justrite	7150140	**3AP88**	‡
5 gal.	Silver	Stainless Steel	11¼"	15⅞"	Eagle	1327	**3NKN4**	
Laboratory Faucet Cans - Type I								
2½ gal.	Red	Galvanized Steel	11¾"	11½"	Justrite	7225140	**5LRG2**	‡
2½ gal.	Red	Galvanized Steel	11¾"	11½"	Justrite	7225150	**5LRG4**	†
5 gal.	Red	Galvanized Steel	11¾"	15⅞"	Justrite	7150157	**3NJY9**	
Laboratory Faucet Tilt Cans - Type I								
5 gal.	Red	Galvanized Steel	11¾"	15⅞"	Justrite	7150156	**3NKJ4**	*†
5 gal.	Red	Galvanized Steel	11¾"	15⅞"	Justrite	7150146	**3NJX9**	*‡
Self-Close Acid/Corrosive Safety Cans								
1 gal.	White	Polyethylene	4⅝ x 7⅝"	12¾"	Justrite	12161	**3AW30**	
2 gal.	White	Polyethylene	12"	15¼"	Justrite	12762	**1YNJ8**	
2½ gal.	White	Polyethylene	10¾"	15¼"	Justrite	12260	**3NKH6**	
5 gal.	White	Polyethylene	12"	20"	Justrite	12765	**1AD89**	
Bottle Safety Jacket								
1 gal.	Clear	Polyethylene	6"	14"	Justrite	12009	**1YNJ4**	
Dispensing Squeeze Bottles								
16 oz.	White	Polyethylene	3"	7½"	Justrite	14009	**5AD27**	
32 oz.	White	Polyethylene	3½"	9⅛"	Justrite	14011	**3NKP6**	
Dispensing Bottles								
32 oz.	Red	Polyethylene	4"	10½"	Justrite	14010	**2AF92**	
8 oz.	Red	Polyethylene	3⅛"	5½"	Justrite	14004	**2AG42**	
4 oz.	White	Polyethylene	2¼"	5½"	Justrite	14002	**3NKN6**	

** Includes metal stand. † Includes faucet for heavy industrial use.*
‡ Includes smaller faucet for dispensing in laboratories.


No. 9WN83

Coiled Grounding Clamps

GA GRAINGER APPROVED

Vinyl-coated, ⅛"-thick cable resists corrosion. Self-recoiling; retracts when not in use. Include 1 heavy-duty pliers-type clamp and one ¼" terminal connector, except No. 8TKU2 has 2 clamps.

Wire Length	Item No.
Hand-Clamp and Terminal Connectors	
5 ft.	**9PMH3**
10 ft.	**9WN83**
20 ft.	**9RYG6**

Wire Length	Item No.
Dual Hand-Clamp Connector	
10 ft.	**8TKU2**

Wire Length	Item No.
Large Hand-Clamp and Terminal Connector	
20 ft.	**9K436**

Fire Extinguisher Information

UL FIRE CLASSIFICATIONS

Class A: Common combustibles (wood, paper, cloth, etc.)

Class B: Flammable liquids and gases (gasoline, propane, and solvents)

Class C: Live electrical equipment (computers, fax machines, etc.)

Class D: Combustible metal (magnesium, sodium, potassium, etc.)

Class K: Cooking media (cooking oils and fats)

UL EXTINGUISHER RATINGS

The number indicates the extinguisher's relative power against that class of fire. An extinguisher rated 2A is twice as powerful against common combustible fires as one rated 1A.

Classes C and D do not have a numerical rating.

UL Rating	Cap.	Extinguisher Type	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Pro "Class ABC" Dry Chemical											
1A:10B:C	2½ lb.	Dry Chemical	14½"	3.25"	Aluminum	Wall Mount	100 psi	8 to 12 sec.	15 ft.	PRO 2.5MP	**5T904**
3A:40B:C	5 lb.	Dry Chemical	16"	4.5"	Aluminum	Wall Mount	195 psi	19 to 21 sec.	18 ft.	PRO5MP	**5T899**
4A:60B:C	10 lb.	Dry Chemical	19½"	5"	Steel	Wall Mount	195 psi	19 to 21 sec.	20 ft.	PRO10MP	**4T889**
6A:80B:C	20 lb.	Dry Chemical	21½"	7"	Steel	Wall Mount	195 psi	19 to 22 sec.	20 ft.	PRO20MP	**5T903**
Pro Plus "Class ABC" Dry Chemical											
1A:10B:C	2½ lb.	Dry Chemical	15"	3"	Steel	Retention	195 psi	8 to 12 sec.	15 ft.	PROPLUS2.5	**4XP87**
3A:40B:C	5 lb.	Dry Chemical	15"	4¼"	Steel	Wall Mount	195 psi	12 to 14 sec.	18 ft.	PROPLUS5	**4XP88**
4A:80B:C	10 lb.	Dry Chemical	19⅛"	5¼"	Steel	Wall Mount	195 psi	20 to 22 sec.	20 ft.	PROPLUS10	**4XP89**
6A:120B:C	20 lb.	Dry Chemical	21⅜"	7¼"	Steel	Wall Mount	195 psi	26 to 28 sec.	20 ft.	PROPLUS 20	**4XP90**
Pro "Class BC" Carbon Dioxide											
5B:C	5 lb.	Carbon Dioxide	17"	5.25"	Aluminum	Wall Mount	850 psi	7 to 9 sec.	8 ft.	PRO5CDM	**5T900**
10B:C	10 lb.	Carbon Dioxide	19⅛"	6.8"	Aluminum	Wall Mount	850 psi	8 to 10 sec.	8 ft.	PRO10CDM	**5T901**
10B:C	15 lb.	Carbon Dioxide	26"	6.8"	Aluminum	Wall Mount	850 psi	12 to 14 sec.	8 ft.	PRO15CDM	**6T547**
10B:C	20 lb.	Carbon Dioxide	26"	8"	Aluminum	Wall Mount	850 psi	15 to 17 sec.	8 ft.	PRO20CDM	**6T548**
ProPlus "Class BC" Halotron											
2B:C	2½ lb.	Halotron	15"	3"	Steel	Wall Mount	100 psi	9 sec.	10 ft.	PROPLUS2.5HM	**4XP81**
5B:C	5 lb.	Halotron	15¼"	4¼"	Steel	Wall Mount	100 psi	9 sec.	15 ft.	PROPLUS5HM	**4XP82**
ProPlus "Class ABC" Halotron											
1A:10B:C	11 lb.	Halotron	16"	7¼"	Steel	Wall Mount	125 psi	11 sec.	15 ft.	PROPLUS11HM	**4XP83**
2A:10B:C	15½ lb.	Halotron	17"	7¼"	Steel	Wall Mount	125 psi	14 sec.	18 ft.	PROPLUS15.5HM	**4XP84**



No. 5T904



No. 4XP88



No. 5T901

Rechargeable Fire Extinguishers

Kidde

Pro and ProPlus Dry Chemical—5-, 10-, and 20-lb. units include hose. ProPlus feature ergonomic, curved steel handle.

Rechargeable Fire Extinguishers

BADGER

ADVANTAGE

Cylinders have aluminum valves, handles, and levers. 2-piece nameplates provide easy-to-read operating instructions. Aluminum models are ideal for marine environments.

STANDARD

Dry chemical fire extinguishers are effective on common fires in most commercial and industrial applications. Feature aluminum valves, handles, and levers, durable O-rings, and heavy-duty stem valves.

EXTRA

All Extra series extinguishers feature chrome-plated brass valves, and stainless steel handles, levers, and pull pins. Include heavy-duty hose and couplings and durable O-rings.

BRIGADE CARTRIDGE-OPERATED

Multipurpose extinguishers for Class A, B, and C fires. 360° swivel discharge nozzle can be easily used by both right- and left-handed users. UL Recognized.

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Advantage - Dry Chemical										
1A:10B:C	2½ lb.	15"	3¼"	Aluminum	Wall Mount	100 psi	10 sec.	15 ft.	ADV-250	**36MA20**
3A:40B:C	5½ lb.	16½"	4½"	Aluminum	Wall Mount	195 psi	14 sec.	18 ft.	ADV-550	**36MA22**
3A:40B:C	5½ lb.	16½"	4½"	Aluminum	Vehicle	195 psi	14 sec.	18 ft.	ADV-550	**36MA23**
4A:60B:C	10 lb.	20"	7¼"	Steel	Wall Mount	195 psi	21⅞₄ sec.	20 ft.	ADV-10	**36MA24**
Standard - Dry Chemical										
1A:10B:C	2½ lb.	15"	3"	Steel	Wall Mount	195 psi	9.5 sec.	15 ft.	250MB-1	**36MA26**
3A:40B:C	5 lb.	15¼"	4¼"	Steel	—	195 psi	14 sec.	18 ft.	5MB-6H	**36MA27**
3A:40B:C	5 lb.	15¼"	4¼"	Steel	Vehicle	195 psi	14 sec.	18 ft.	5MB-6HB	**36MA28**
4A:80B:C	10 lb.	19"	5¼"	Steel	Wall Mount	195 psi	22 sec.	20 ft.	10-MB-8H	**36MA29**
6A:120B:C	20 lb.	21¹³⁄₆₄"	7¼"	Steel	Wall Mount	195 psi	28 sec.	20 ft.	20-MB-6H	**36MA30**
Extra										
Multipurpose Dry Chemical										
1A:10B:C	2½ lb.	15"	3"	Steel	Wall Mount	195 psi	9.5 sec.	15 ft.	B250M	**36MA15**
3A:40B:C	5 lb.	15¼"	4¼"	Steel	Wall Mount	195 psi	14 sec.	18 ft.	B5M	**36MA16**
3A:40B:C	5 lb.	15¼"	4¼"	Steel	Vehicle	195 psi	14 sec.	18 ft.	B5M-B	**36MA17**
4A:80B:C	10 lb.	19"	5¼"	Steel	Wall Mount	195 psi	22 sec.	20 ft.	B10M	**36MA18**
6A:120B:C	20 lb.	21¹³⁄₆₄"	7¼"	Steel	Wall Mount	195 psi	28 sec.	20 ft.	B20M	**36MA19**
10B:C	2¾ lb.	15"	3"	Steel	Wall Mount	195 psi	9 sec.	15 ft.	B275BC	**36MA31**
40B:C	5½ lb.	15¼"	4¼"	Steel	Wall Mount	195 psi	13½ sec.	18 ft.	B5BC	**36MA32**
60B:C	10 lb.	19⅜₄"	5¼"	Steel	Wall Mount	195 psi	18 sec.	20 ft.	B10BC-1	**36MA33**
120B:C	20 lb.	21¹³⁄₆₄"	7¼"	Steel	Wall Mount	195 psi	29 sec.	20 ft.	B20BC	**36MA34**
Carbon Dioxide										
5B:C	5 lb.	17"	5¼"	Aluminum	Wall Mount	850 psi	9 sec.	8 ft.	B5V	**36MA35**
10B:C	10 lb.	19⁹⁄₁₆"	6⅞"	Aluminum	Wall Mount	850 psi	10 seg.	8 ft.	B10V	**36MA36**
10B:C	15 lb.	26"	6⅞"	Aluminum	Wall Mount	850 psi	14 sec.	8 ft.	B15V	**36MA37**
10B:C	20 lb.	26"	8"	Aluminum	Wall Mount	850 psi	17 sec.	8 ft.	B20V	**36MA38**
Halotron 1										
2B:C	2½ lb.	14²³⁄₃₂"	3"	Steel	Wall Mount	100 psi	9 sec.	10 ft.	2.5HB-2	**36MA41**
5B:C	5 lb.	15¼"	4¼"	Steel	Wall Mount	100 psi	9 sec.	15 ft.	5HB-2	**36MA42**
1A:10B:C	11 lb.	16¹³⁄₆₄"	7¼"	Steel	Wall Mount	125 psi	11 sec.	15 ft.	11HB	**36MA43**
2A:10B:C	15½ lb.	17⅞₄"	7¼"	Steel	Wall Mount	125 psi	14 sec.	18 ft.	15.5HB	**36MA44**
Brigade CO2 Cartridge Operated										
2A:40B:C	21 lb.	23³⁹⁄₆₄"	6¼"	Steel	Wall Mount	240 psi	15 sec.	30 ft.	B-20-A-HF	**36MA54**
4A:40B:C	10²¹⁄₃₂ lb.	18¼"	5¼"	Steel	—	195 psi	17 to 20 sec.	25 ft.	B-10-A	**40H498**
10A:60B:C	20 lb.	23⅜"	6¼"	Steel	—	195 psi	20 to 24 sec.	30 ft.	B-20-A	**40H499**
10A:80B:C	25 lb.	23⅜"	7½"	Steel	—	195 psi	29 to 35 sec.	35 ft.	B-30-A	**40H501**
80B:C	20 lb.	23³⁹⁄₆₄"	6¼"	Steel	Wall Mount	240 psi	20 to 26 sec.	30 ft.	B-20-PK	**36MA55**
120B:C	28½ lb.	23³⁹⁄₆₄"	7¹³⁄₆₄"	Steel	Wall Mount	240 psi	26 to 31 sec.	35 ft.	B-30-PK	**36MA56**



No. 36MA22



No. 36MA27



No. 36MA15



No. 36MA35



No. 36MA42



No. 40H498

Scan. Order. Done.
Details on page A1.


No. 31CA36


No. 13J002


No. 35WT09


No. 13J008


No. 44YZ30


No. 35WT15


No. 35WT20


No. 35WT23

Rechargeable Fire Extinguishers

- Meet DOT Requirements

Feature all-metal valves with steel or aluminum cylinders.

High Flow Dry Chemical—Designed to attack flowing liquid and pressurized gas fires. Capable of fast knockdown.

Carbon Dioxide—Residue-free agent for use on Class B and C hazards.

Halotron—Clean agent gas for Class B and C hazards. Halon replacement.

Wet Chemical—Required in commercial kitchens for cooking oil fires.

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.	
Dry Chemical — ABC												
1A:10B:C	2½ lb.	14⁵⁄₁₆"	3-1/9"	Steel, White	Marine	100 psi	8 to 10 sec.	12 ft.	First Alert	MARINE1	**31CA36**	
1A:10B:C	2½ lb.	14⁵⁄₁₆"	3-1/9"	Steel, Red		100 psi		12 ft.	First Alert	PRO2-5	**31CA38**	*
1A:10B:C	2½ lb.	15"	3⅜"	Steel	Vehicle	100 psi		15 ft.	Buckeye	13315	**35WT05**	
1A:10B:C	2½ lb.	15½"	3"	Steel	Wall or Vehicle/ Marine	195 psi	10 sec.	15 ft.	Amerex	B417T	**3YWN1**	
3A:40B:C	5 lb.	15¼"	4"	Steel		195 psi	14 sec.	18 ft.	Amerex	B402	**13J002**	
3A:40B:C	5 lb.	17"	4¼"	Steel	Wall	195 psi	13 to 15 sec.	18 ft.	Buckeye	10914	**35WT06**	
4A:80B:C	10 lb.	21"	5.125"	Steel		195 psi	20 to 24 seg.	21 ft.	Buckeye	11340	**35WT09**	
10A:120B:C	20 lb.	22"	7.5"	Steel		195 psi	26 to 29 sec.	21 ft.	Buckeye	12120	**35WT10**	
Dry Chemical — BC												
5B:C	2 lb.	12⁵⁄₁₆"	3-1/9"	Steel	Wall	100 psi	8 to 10 sec.	12 ft.	First Alert	REC5	**31CA40**	
10B:C	2½ lb.	15"	3.375"	Steel	Vehicle	100 psi		15 ft.	Buckeye	13415	**35WT12**	
10B:C	2½ lb.	15½"	3"	Steel	Vehicle/Marine	195 psi	10 sec.	15 ft.	Amerex	B403T	**13J008**	
High Flow Dry Chemical												
1A:20B:C	10 lb.	21"	6"	Steel	Wall	195 psi	10 sec.	40 ft.	Buckeye	11350	**44YZ30**	
4A:60B:C	20 lb.	21¼"	7.5"	Steel		195 psi	18 sec.	50 ft.	Buckeye	12350	**44YZ31**	
Carbon Dioxide												
5B:C	5 lb.	18"	5.25"	Aluminum	Wall	850 psi	8 to 10 sec.	8 ft.	Buckeye	45100	**35WT14**	
10B:C	10 lb.	20"	6.89"	Aluminum		850 psi		8 ft.	Buckeye	45600	**35WT15**	
10B:C	15 lb.	27"	6.89"	Aluminum		850 psi	13 to 17 sec.	8 ft.	Buckeye	46100	**35WT16**	
10B:C	20 lb.	27"	8"	Aluminum		850 psi	18 to 22 sec.	8 ft.	Buckeye	46600	**35WT17**	
Halotron												
2B:C	2½ lb.	14"	3.375"	Steel	Wall	100 psi	8 to 10 sec.	10 ft.	Buckeye	70259	**35WT19**	
5B:C	5 lb.	17"	4.25"	Steel		125 psi		15 ft.	Buckeye	70510	**35WT20**	
1A:10B:C	11 lb.	18"	7"	Steel		125 psi		15 ft.	Buckeye	71100	**35WT21**	
2A:10B:C	15½ lb.	18"	7"	Steel		125 psi	12 to 14 sec.	18 ft.	Buckeye	71550	**35WT22**	
Wet Chemical												
1A:K	6 L	20"	7"	Stainless Steel	Wall	100 psi	52 to 56 sec.	8 ft.	Buckeye	50006	**35WT23**	
2A:K	12¹¹⁄₁₆ lb.	19"	7"	Stainless Steel		100 psi	53 sec.	12 ft.	Amerex	B260	**13J014**	

** Approved for marine use when mounted with supplied bracket.*


No. 479X05


No. 479W99


No. 479W96

Aluminum Disposable Dry Chemical Fire Extinguishers

- Aluminum cylinder with aluminum valve
- Nos. 479W99 and 479X03 include retention strap bracket
- UL Listed

Mariner extinguishers are for regular marine use. Easy-to-read pressure gauge and easy-pull pin. No. 479W99 is for most common fires. Use No. 479X03 for liquid and energized electrical fires.

Description	UL Rating	Cap.	H	Dia.	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.	
Multipurpose	3A:40B:C	5½ lb.	16⁵⁄₆₄"	4½"	Wall Mount	195 psi	13 to 15 sec.	18 ft.	XL-5MR	**479X05**	*
Mariner 110—Monoammonium Phosphate	1A:10B:C	2½ lb.	14¹³⁄₆₄"	3¼"	Marine	100 psi	8 to 12 sec.	8 ft.	46662720MTL	**479W99**	
Monoammonium Phosphate	1A:10B:C	2½ lb.	14¹³⁄₆₄"	3¼"	Wall Mount	100 psi	8 to 12 sec.	8 ft.	46614220MTL	**479W96**	
	3A:40B:C	5½ lb.	16¹³⁄₁₆"	4½"	Wall Mount	195 psi	13 to 15 sec.	18 ft.	FX340SC	**479X06**	*
Sodium Bicarbonate	711A	2½ lb.	14¹³⁄₆₄"	3¼"	Wall Mount	100 psi	8 to 10 sec.	5 ft.	RESSP	**479W97**	
	5B:C	2 lb.	11"	3¼"	Wall Mount	100 psi	8 to 12 sec.	6 ft.	21007077MTL	**479W98**	
Mariner 5—Sodium Bicarbonate	5B:C	2 lb.	11⁵⁄₁₆"	3¼"	Marine	100 psi	8 to 12 sec.	6 ft.	M5G	**479X03**	
Sodium Bicarbonate	10B:C	2²³⁄₃₂ lb.	14¹³⁄₆₄"	3¼"	Wall Mount	100 psi	8 to 12 sec.	8 ft.	FA10G	**479X02**	

** Includes hose.*


No. 3YWG4


No. 13J015


No. 35WT24

Water and Water Mist Fire Extinguishers

Reliable extinguishers all feature a rechargeable stainless steel cylinder. No. 3YWG4 uses a water stream as the extinguishing agent. Nos. 13J015 and 35WT24 use deionized water (sold separately) as the extinguishing agent; a misting nozzle improves cooling and soaking characteristics.

UL Rating	Cap.	Fire Extinguisher Bracket Type	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.
2A	2½ gal.	Wall	55 sec.	55 ft.	Amerex	240	**3YWG4**
2A:C	12¹¹⁄₁₆ lb.	Wall	72 sec.	12 ft.	Amerex	B270NM	**13J015**
2A	2½ gal.	Wall	48 to 52 sec.	55 ft.	Buckeye	50000	**35WT24**

Find even MORE on Grainger.com®

Find more information on fire extinguishers on page 1877.

Nonmagnetic Fire Extinguishers

Ideal for use inside and around magnetic resonance imaging (MRI) units and other healthcare facilities.

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Extinguish Agent Type	Brand	Mfr. Model	Item No.
2A:C	2½ lb.	28"	7"	Stainless Steel	Wall Mount	Deionized Water	Buckeye	51000	**35WT25**
5B:C	5 lb.	17"	—	Aluminum	Wall Mount	Carbon Dioxide	Badger	B5V-1MR	**5MDC7**



No. 35WT25



No. 5MDC7

Wheeled Fire Extinguishers

- 50-ft. hose (except No. 8RY81 has 25-ft. and No. 8UKR9 has 40-ft. hose)
- 16"-dia. semipneumatic tires, (except Nos. 13J006 and 13J010 have 36" x 6" steel wheels)

Feature brass fittings and live swivels.

Stored Pressure—Can be activated instantly, with agent and pressurized gas stored in the same cylinder.

Direct Pressure—A separate pressurized gas cylinder simplifies recharge.

Regulated Pressure—Deliver constant pressure and complete discharge, employing a regulator to control transfer of pressurized gas to the agent cylinder. Residual pressure clears the hose.

UL Rating	Cap.	H	W	D	Cylinder Material	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Stored Pressure										
Carbon Dioxide										
20B:C	50 lb.	47"	23"	48"	Steel	240 psi	44 sec.	20 ft.	333	**8UKR9**
Dry Chemical										
20A:160B:C	50 lb.	46"	21.5"	24"	Steel	240 psi	35 sec.	35 ft.	495	**8RY81**
40A:240B:C	125 lb.	53.5"	28"	40"	Steel	240 psi	48 sec.	40 ft.	488	**8GER7**
Halotron										
4A:60B:C	65 lb.	58"	28"	39"	Steel	100 psi	22 sec.	45 ft.	673	**13J012**
10A:80B:C	150 lb.	64"	30"	42"	Steel	125 psi	38 sec.	45 ft.	674	**13J013**
Direct Pressure										
Dry Chemical										
40A:240B:C	125 lb.	45"	24"	36"	Steel	240 psi	52 sec.	40 ft.	450	**13J005**
30A:320B:C	300 lb.	57"	34"	39"	Steel	240 psi	60 sec.	40 ft.	491	**13J006**
Purple K										
320B:C	125 lb.	45"	24"	36"	Steel	240 psi	53 sec.	40 ft.	452	**13J009**
320B:C	300 lb.	57"	34"	39"	Steel	240 psi	67 sec.	40 ft.	493	**13J010**
Regulated Pressure										
Dry Chemical										
30A:240B:C	125 lb.	52"	26"	38"	Steel	240 psi	48 sec.	40 ft.	467	**13J007**
Purple K										
320B:C	125 lb.	52"	26"	38"	Steel	240 psi	52 sec.	40 ft.	469	**13J011**



No. 8RY81



No. 13J009

Wheeled Fire Extinguishers

Extinguishers are designed for easy single-person operation and are small enough to easily pass through standard doorways. UL Listed.

Stored Pressure—Economical units roll easily on semipneumatic rubber wheels. Effective on many types of high-risk fires that may occur within commercial and industrial applications.

- 25-ft. hose

UL Rating	Cap.	Cylinder Material	Operating Pressure	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.
Stored Pressure								
Dry Chemical								
10A:160B:C	50 lb.	Steel	240 psi	36 sec.	35 ft.	Buckeye	30010	**35WT27**
20A:160B:C	50 lb.	Steel	240 psi	36 sec.	35 ft.	Badger	50MB	**36MA47**
40A:240B:C	125 lb.	Steel	240 psi	45 sec.	40 ft.	Badger	150MB	**36MA48**
Purple K								
240B:C	125 lb.	Steel	240 psi	48 sec.	40 ft.	Badger	150PB	**36MA50**
Regulated-Cylinder Operated								
Dry Chemical								
40A:240B:C	145 lb.	Steel	245 psi	43 sec.	35 ft.	Badger	B150A-1	**36MA51**
Purple K								
240B:C	125 lb.	Steel	245 psi	43 sec.	35 ft.	Badger	B125KL-1	**36MA52**

Regulated-Cylinder Operated—Excellent for high-risk fire hazards that require consistent flow rates and ranges throughout the entire fire fighting operation. No. 36MA51 has 16" semipneumatic rubber wheels; No. 36MA52 has 36" rubber-coated steel wheels.

- 50-ft. hose



No. 35WT27



No. 36MA51

FireAde®
Don't fight fires ... extinguish them!™

Foam Fire Extinguishing Sprays

- Range max: 20 ft.

Aerosol can foam instantly cools surfaces. Personal fire suppression system designed for easy application and extinguishment of fire outdoors and around the house. No mess, water-based formula. Effective on Class A and Class B fires. UL Listed.

Cap.	H	Dia.	Discharge Time	Mfr. Model	Item No.
⅝ lb.	7⅝"	2¼"	8 to 12 sec.	10FA2K-6BB	**53PW74**
1 lb.	11 13/32"	2¼"	8 to 12 sec.	16FA2K-6PDQ	**53PW75**
1½ lb.	13½"	2¼"	8 to 12 sec.	22FA2K-12BB	**53PW76**



No. 53PW74

GA GRAINGER APPROVED

Fire Extinguishing Spray and Fire Retardant

Fire Extinguishing Spray—Instantly cools down surfaces that are too hot to work on or around. Sprays into hard-to-reach areas from any position. Meets UL 2N75, NFPA 18, and EPA Standards.

Fire Retardant—Spray on to fabrics, combustible materials, and other Class A surfaces to help inhibit the spread of flames and smoke. Will not stain.

Description	Item No.
Fire Extinguishing Spray, 12 oz. Aerosol Can	**9NKR4**
Fire Retardant, 32-oz. Trigger Spray Bottle	**8AWT0**



No. 9NKR4


No. 3ZV09



No. 35GX42


No. 35GX45

Fire Extinguisher Cabinets

GRAINGER APPROVED

- For indoor use only
- Clear window allows visibility
- White color

Steel cabinets accommodate most common sizes of fire extinguishers and provide easy access in an emergency. Excellent for use in offices, warehouses, etc.

Description	Cap.	H	W	D	Window Material	Item No.
Surface-Mount						
Galvanized Steel						
Rectangular with Cam Lock and Break Glass Hammer	2 to 2.6 lb.	18 3/16"	8 3/8"	6 3/8"	Acrylic	**3ZV09**
	5 lb.	22 3/8"	8 3/8"	6 3/8"	Acrylic	**3ZV10**
	10 lb.	24 3/8"	10 5/16"	6 3/8"	Acrylic	**3ZV11**
	20 lb.	30 3/8"	12 1/4"	9 1/4"	Acrylic	**3ZV12**
Cold-Rolled Steel						
Rectangular with Magnetic Catch Door	5 lb.	17 15/16"	8 1/16"	6 1/8"	—	**35GX42**
	10 lb.	23 3/8"	10 1/16"	6 11/16"	—	**35GX43**
	20 lb.	25 9/16"	12"	9 1/16"	—	**35GX44**
Trapezoid with Magnetic Catch Door	20 lb.	25 9/16"	11 7/16"	10 1/4"	Tempered Glass	**35GX45**
	30 lb.	30 11/16"	12 5/8"	11"	Tempered Glass	**35GX46**
Rectangular with Cam Lock and Break Glass Handle	5 lb.	17 15/16"	8 1/16"	6 1/8"	Tempered Glass	**35GX48**
	10 lb.	23 3/8"	10 1/16"	6 11/16"	Tempered Glass	**35GX49**
	20 lb.	25 9/16"	12"	9 1/16"	Tempered Glass	**35GX50**
Semirecessed						
Galvanized Steel						
Rectangular with Cam Lock and Break Glass Handle	5 lb.	20 3/4"	11 3/4"	5 1/8"	Tempered Glass	**1RK37**
	10 lb.	26 3/4"	11 3/4"	6 1/4"	Tempered Glass	**1RK38**
Cold-Rolled Steel						
Rectangular with Cam Lock and Break Glass Handle	20 lb.	28"	15"	8 7/8"	Tempered Glass	**35GX47**


No. 35GX49


No. 1RK38


No. 6ATL5

Fire Extinguisher Cabinets

FLAMEFIGHTER CORP.

- Surface-mount

Durable, molded plastic cabinets can be used indoors or out; protect extinguishers from exposure to dirt, dust, water, and chemicals. Left- or right-hand opening for easy access in the workplace or in a vehicle. Hook-and-loop straps keep extinguisher secure inside.

Cap.	Cabinet Color	Mfr. Model	Item No.
5 lb.	Red	JFEX03	**6ATL7**
10 lb.	Black/Red	JEBE06	**6ATL6**
20 lb.	Black/Red	JBXE83	**6ATL5**
20 or 30 lb.	Black/Red	JBDE73	**6ATL4**


No. 5T909

Kidde

Fire Extinguisher Brackets

Easy-to-mount. Corrosion-resistant stainless steel straps securely hold extinguisher in place. Finger tabs allow quick access. USCG Approved when used with appropriate fire extinguisher.

Note: Coast Guard approval of a fire extinguisher is only valid with the mounting bracket identified for use with that particular extinguisher.

Bracket Type	Cap.	Mfr. Model	Item No.
Wall	2½ to 2¾ lb.	46640120	**4T307**
	5 lb.	46640020	**4T308**
Vehicle	5 lb.	UB-5	**1RK29**
Marine/ Vehicle	5 lb.	VB-1	**5T906**
	10 lb.	366242	**5T909**
	20 lb.	UB-20	**5T908**


No. 40LU31


No. 40LU19

POTTER ROEMER FIRE PRO.

Fire Extinguisher Cabinets

Cabinets feature cold-rolled steel construction and a continuous hinge.

Cap.	Cabinet Color	Mounting Style	Item No.
Tempered Glass			
5 lb.	White	Semirecessed	**40LU31**
10 lb.	White	Surface Mount	**40LU35**
10 lb.	Stainless Steel	Surface Mount	**40LU19**
10 lb.	Stainless Steel	Semirecessed	**40LU23**
Break Glass			
10 lb.	White	Semirecessed	**40LU32**


No. 35WT38


No. 35WT39

BUCKEYE FIRE EQUIPMENT

Fire Extinguisher Brackets

Designed to keep your fire extinguisher secure and readily accessible.

Bracket Type	Cap.	Cylinder Dia.	Mfr. Model	Item No.
Marine/Vehicle	2½ lb.	3⅜"	700287	**35WT37**
	5 lb.	4¼"	700270	**35WT38**
Marine/Vehicle, Heavy-Duty	10 lb.	5" to 5¼"	700226	**35WT39**
	15 lb.	6½" to 7¼"	700228	**35WT40**
	30 lb.	7" to 8"	700229	**35WT45**


No. 4T176

Fire Extinguisher Covers

STEINER

- Meet OSHA requirements

High-visibility, vinyl-coated red with clear plastic window. Hook-and-loop self-adhering nylon fasteners.

Cap.	Mfr. Model	Item No.
5 to 10 lb.	XT5WG	**4T176**
15 to 30 lb.	XT8WG	**4T177**


No. 40H503

BADGER

Fire Extinguisher Brackets

Use for mounting extinguishers securely on vehicles or other moving equipment, while still allowing quick emergency access.

Bracket Type	Cap.	Mfr. Model	Item No.
Strap	2.75 lb	MB-250B	**40H509**
Wall	5 lb.	MB-5B	**6AJW5**
Running Board	20 lb.	B20	**40H503**
	30 lb.	B30	**40H504**


No. 4XP76

Kidde

Emergency Escape Ladders

Lightweight, tangle-free ladders attach quickly to windows. Tested up to 1000 lb.

L	For Use With	Mfr. Model	Item No.
13 ft.	2-Story Structures	468093	**4XP76**
25 ft.	3-Story Structures	468094	**4XP77**


No. 1YNW9


No. 36WA04


No. 1XTG7


No. 2FTL8


No. 429J52


No. 45TT72


No. 3KN63

Smoke and Combination Smoke/CO Alarms

Alarm Types: Ionization respond best to fast-raging fires. Photoelectric respond best to slow-smoldering fires. All interconnect units must interface directly with their own brand of interconnectable smoke and carbon monoxide alarms.

SMOKE ALARMS

- Meet UL Standards

Test/Reset button verifies alarm circuitry, alarm activation, and battery function. 85dB horn. Easy installation. Operating temp. range: 40° to 100°F.

Battery-Powered—Provide continuous alarm operations during a power outage. Feature LED power-on indicator, tamperproof locking pin, and low-battery warning.

Interconnectable—Feature power-on and alarm indicators. Latching alarm identifies initiating alarm. Locking mechanisms lock the battery drawer and secure alarm to base, except No. 1XTG8 includes optional locking mechanism that deters removal of unit.

Interconnectable, for the Hearing Impaired—Strobe light flashes distinct patterns for smoke and, if connected to a CO alarm, carbon monoxide. 85dB horn. Features alarm latch for initiating unit and low-battery visual indicator.

- Meets UL 1971 visual signaling requirements

Hardwired Bridge Unit for Wireless Detectors—Add wireless capability to an interconnected system by replacing one wired unit. Helps avoid pulling wires through walls for retrofit and remodel projects.

Wireless—Interconnectable alarms simplify adding detectors to every room in a retrofit/remodel project. 85dB horn. Require Bridge Unit, sold separately.

COMBINATION SMOKE/CO ALARMS

- UL Recognized

Test/Reset button function tests alarm circuitry, alarm activation, and peak level memory. Feature visual indicators for alarm and power-on. 85dB horn. Easy installation. Operating temp.: 40° to 100°F.

Battery-Powered—Provide alarm function during a power outage. Voice warning announces "Fire," "Carbon Monoxide," or "Low Battery."

Interconnectable—Allow multiple alarm signals to be triggered from one source of hazard.

Nos. 1XTH3 and 5MPL0 feature voice that announces "Fire," "Carbon Monoxide," or "Low Battery" warnings when detected. No. 2FTP5 voice warning includes location of danger, and has latching features to indicate initiating alarm and low battery.

INTERCONNECTABLE HEAT ALARMS

- No. 20JK13 meets UL 217 Standard
- No. 2FTN6 meets UL 539 Standard

Designed to give early warning of heat from fire. Alarm sounds before it reaches the fixed temperature rating of 135°F. 85dB horn. Originating alarm and power-on LED indicators.

Nos. 20JK13 and 2FTN6 can be interconnected with smoke alarms. No. 20JK13 operating temp. range: -20° to 100°F.

No. 2FTN6 operating temp. range: 10° to 135°F.

INTERCONNECTABLE STROBE LIGHTS

- Meet UL 1971 Standard

Use with a smoke, heat, or CO alarm to provide a visual warning to the hearing impaired and in quiet/silent areas. Produce separate flash patterns to differentiate smoke/heat and carbon monoxide warnings. LED power-on indicator. Mount to any standard electrical box up to 4" octagonal. Operating temp.: 40° to 100°F.

INTERCONNECTABLE ALARM MODULES

- UL Recognized

Activate auxiliary warning devices such as external bells, sirens, or exhaust fans. Feature one set of form C contacts.

Description	Power Source	Battery Backup	Hush Button	Mfg. Warranty	Brand	Mfr. Model	Item No.
Smoke Alarms							
Battery-Powered							
Ionization	9V	No	No	3-yr. Limited	Kidde	i9040	**3TCT1**
Ionization	9V	No	No	5-yr. Limited	Kidde	i9050	**5MPL5**
Ionization	9V	No	Yes	10-yr. Limited	First Alert	FG250B	**2FTN9**
Ionization	9V	No	Yes	10-yr. Limited	Kidde	i9060	**5MPL6**
Ionization	3V Lithium	No	Yes	10-yr. Limited	Kidde	i9010	**1YNW9**
Ionization	9V	No	Yes	10-yr. Limited	First Alert	FG250LB	**2FTP1**
Ionization	9V	No	Yes	10-yr. Limited	First Alert	SA350B	**36WA04**
Photoelectric	9V	No	Yes	10-yr. Limited	Kidde	P9050	**5MPL9**
Photoelectric	9V	No	Yes	10-yr. Limited	First Alert	PR700B	**36WA05**
Photoelectric	Sealed Lithium Ion	Yes	Yes	10-yr. Limited	Kidde	P3010L	**20JK08**
Photoelectric with Voice Alarm	Sealed Lithium Ion	Yes	Yes	10-yr. Limited	Kidde	P3010B	**20JK09**
Photoelectric with Safety Light	Sealed Lithium Ion	Yes	Yes	10-yr. Limited	Kidde	P3010H	**20JK10**
Dual-Sensor Photoelectric/ Ionization	9V	No	Yes	5-yr. Limited	Kidde	PI 9010	**5MPL7**
Interconnectable							
Ionization with Front-Load Battery Door	120VAC, 9V	Yes	Yes	5-yr. Limited	Firex	i4618	**5MPK8**
Ionization with Front-Load Battery Door, 10-yr. Sensor	120VAC, 9V	Yes	Yes	10-yr. Limited	Firex	i5000	**5MPK9**
Ionization	120VAC, 9V	Yes	Yes	5-yr. Limited	Kidde	i12040	**1XTG6**
Ionization with Exit Light	120VAC, 9V	Yes	Yes	10-yr. Limited	Kidde	i12080	**1XTG8**
Ionization with Front-Load Battery Door	120VAC, 9V	Yes	Yes	10-yr. Limited	Kidde	i12060	**1XTG7**
Ionization with Side-Load Battery Door	120VAC, 9V	Yes	Yes	10-yr. Limited	BRK	9120B	**2FTL8**
Ionization with Locked Battery Door	120VAC, 9V	Yes	Yes	10-yr. Limited	First Alert	9120LBL	**45TT73**
Photoelectric	120VAC, 9V	Yes	No	5-yr. Limited	Firex	P12040	**5MPL3**
Photoelectric	120VAC	Yes	Yes	10-yr. Limited	First Alert	7010B	**45JZ77**
Dual-Sensor Photoelectric/ Ionization	120VAC, (2) AA	Yes	Yes	10-yr. Limited	BRK	3120B	**5KCY8**
Dual-Sensor Photoelectric/ Ionization	120VAC, 9V	Yes	Yes	10-yr. Limited	Firex	PI 2010	**5MPL8**
Interconnectable, for the Hearing Impaired							
Photoelectric with Strobe Light	120VAC, 3V Lithium	Yes	Yes	10-yr. Limited	First Alert	7020BSL	**429J52**
Hardwired Bridge Unit for Wireless Detectors							
Ionization	120VAC, 9V	Yes	Yes	10-yr. Limited	Kidde	RF-SM-AC	**5MPL1**
Wireless							
Ionization	(3) AA Batteries	No	Yes	10-yr. Limited	Kidde	RF-SM-DC	**5MPL2**
Combination Smoke/CO Alarms							
Battery-Powered							
Ionization	9V	No	Yes	10-yr. Limited	BRK	SCO2B	**5KCY7**
Ionization with Voice Alarm and Flashing Light	(3) AA Batteries	No	Yes	5-yr. Limited	Kidde	KN-COSM-BA	**5TR37**
Photoelectric	Sealed Lithium Ion	Yes	Yes	10-yr. Limited	Kidde	P3010K-CO	**20JK11**
Photoelectric, Low Profile	(2) AA Batteries	No	Yes	10-yr. Limited	First Alert	PRC700B	**45TT79**
Interconnectable							
Ionization with Voice Alarm	120VAC, (2) AA	Yes	Yes	5-yr. Limited	Kidde	KN-COSM-IBA	**1XTH3**
Ionization, Electrochemical	120VAC, 9V	Yes	Yes	10-yr. Limited	BRK	SC9120B	**2FTP4**
Ionization, Electrochemical w/Locked Battery Door	120VAC, 9V	Yes	Yes	10-yr. Limited	First Alert	SC9120LBL	**45TT72**
Photoelectric with Front-Load Battery Door and Voice Alarm	120VAC, 9V	Yes	Yes	7-yr. Limited	Firex	KN-COPE-IC	**5MPL0**
Photoelectric with Voice Alarm	120VAC, (2) AA Batteries	Yes	Yes	10-yr. Limited	BRK	SC7010BV	**2FTP5**
Interconnectable Heat Alarms							
Heat Alarm	120VAC, 9V	Yes	No	10-yr. Limited	Kidde	HD135F	**20JK13**
Heat Alarm	120VAC, 9V	Yes	Yes	10-yr. Limited	BRK	HD6135FB	**2FTN6** †
Interconnectable Strobe Lights							
Strobe Light	120VAC	—	—	5-yr. Limited	Kidde	SL177I	**3KN63** *
Strobe Light	120VAC	—	—	10-yr. Limited	First Alert	SLED177	**429J53**
Interconnectable Alarm Modules							
Smoke Alarm Relay	120VAC	—	—	—	Kidde	SM120X	**3KN55** *
CO Alarm Relay	120VAC	—	—	—	Kidde	CO120X	**3AU39** *
Smoke, CO, and Heat Relay	120VAC	—	—	10-yr. Limited	BRK	RM4	**2FTN7** †

** For use with Kidde alarms. † For use with BRK® and First Alert® alarms.*

Scan. Order. Done.
Details on page A1.


No. 5KCY4


No. 12G545


No. 2FTN1


No. 40H497


No. 2FTL9


No. 6AJW6


No. 20JK12


No. 1RK40


No. 1XTH2

BRK Kidde First Alert

Carbon Monoxide Alarms

- UL 2034 Listed

85dB horn sounds when sensor detects high levels of CO. Select models feature visual alert when alarm needs replacement. Operating temp.: 40° to 100°F.

Battery-Powered CO Alarms—User-friendly detectors have easy-access battery compartments. No. 3YNJ3 has a battery lockout system.

Plug-In CO Alarms—No. 6AJW6 has tamper-resist feature that sounds a constant alarm if unit is unplugged or comes loose from wall outlet. Nos. 2FTN5 and 20JK12 include a 6-ft. extension cord for table or shelf mounting.

Plug-In Combination CO and Explosive Gas Alarm—Unit also detects methane or propane gas. Includes extension cord for table or shelf mounting.

Interconnectable CO Alarms—When interconnected with smoke alarms, Nos. 1XTH1 and 1XTH2 feature two different sounding patterns to differentiate smoke and carbon monoxide warnings. No. 2FTN2 features latching alarm indication and a locking mechanism to prevent theft of battery or unit.

Description	Digital Readout	Hush Button	Mfg. Warranty	Brand	Mfr. Model	Item No.
Battery-Powered CO Alarms						
9V	No	Yes	10 yr. Limited	BRK	CO250B	**5KCY4**
(2) AA	No	No	7 yr. Limited	Kidde	9C05-LP2	**12G545**
(3) AA	No	No	7 yr. Limited	Kidde	KN-COB-B-LP	**3YNJ3**
(3) AA	Yes	No	7 yr. Limited	Kidde	KN-COPP-B-LPM	**12G547**
(2) AA with Front-Load Battery Access	Yes	Yes	7 yr. Limited	First Alert	CO410B	**2FTN1**
Sealed Lithium Ion	No	No	10 yr. Limited	Kidde	C3010	**40H496**
Sealed Lithium Ion	Yes	No	10 yr. Limited	Kidde	C3010-D	**40H497**
(2) AA with Front Load Battery Access	No	Yes	7 yr. Limited	First Alert	CO400B	**2FTL9**
(3) AA	Yes	No	7 yr. Limited	Kidde	KN-COPP-B-LS	**3YNJ4**
Plug-In CO Alarms with 9V Battery Backup						
120VAC	No	No	5 yr. Limited	Kidde	KN-COB-DP2	**6AJW6**
AC Front Load Battery Access	Yes	Yes	7 yr. Limited	First Alert	CO615B	**2FTN5**
AC Front Load Battery Access	No	Yes	7 yr. Limited	First Alert	CO605B	**2FTN4**
120VAC, 9V	Yes	Yes	10-Yr. Limited	Kidde	KN-COPP-3	**20JK12**
Plug-In Combination CO and Explosive Gas Alarm with 9V Battery Backup						
120VAC	Yes	No	7 yr. Limited	Kidde	KN-COEG-3	**1RK40**
Interconnectable CO Alarms with 9V Battery Backup						
120VAC	No	No	5 yr. Limited	Kidde	KN-COB-IC	**1XTH1**
120VAC	Yes	No	5 yr. Limited	Kidde	KN-COP-IC	**1XTH2**
120VAC with Side-Load Battery Access	No	Yes	10 yr. Limited	BRK	CO5120BN	**2FTN2**



SYSTEM SENSOR

Carbon Monoxide Alarm

4-wire detector is designed for system operation. Operates on most industry security and fire alarm control panels. Features RealTest™ technology, which allows detector to be tested with CO gas. Mounts to single-gang electrical box. 85dB horn. Operating temp.: 32° to 104°F. 12/24VDC. UL Listed.

Includes	Mfr. Model	Item No.
Optional Drywall Anchors	5CGZ7	**5CGZ7**



Smoke Alarm Aid

SAFEAWAKE

SafeAwake Smoke Alarm Aid works in tandem with, and is activated by traditional, audible smoke alarms to improve fire safety for elderly and hard-of-hearing populations. When an alarm sounds, the SafeAwake is triggered to flash a bright light and set off its own loud, low-frequency audible alarm that can be heard by the hearing impaired. It also sets off a motorized bed shaker to wake up slumbering residents. Easy setup makes it an excellent choice for homes, hotels, hospitals, senior residences, and independent and assisted living facilities. With automatic shutoff and restart, turn-on indicator light, test button, and battery backup (batteries included). UL Listed.

Detection Method	Mfr. Model	Item No.
Ionization and Photoelectric Smoke Alarm	SART 9V 1.0	**49H879**



No. 8XZH8



No. 3VG75

GA GRAINGER APPROVED CRC

Smoke Detector Testers

Functional testers for commercial and residential smoke detectors do not contaminate or discolor detectors or ceilings, and will not damage plastics or leave a smoky residue. Convenient aerosol can makes testing easy and safe. UL Listed.

Description	Brand	Item No.
Smoke Check™	GA	**8XZH8**
CRC® Smoke Test®	CRC	**3VG75**

Find even MORE on Grainger.com®

Fire Barrier Products

Pillows and Self-Locking Pillows—STI® brand pillows are lightweight and intumescent on all sides. Reinstallable for fast, convenient retrofitting of cables. UL Classified and FM Approved.

3M™ brand self-locking pillows have strips that adhere to each other to make overhead installation easier.

Composite Sheets—Fire-stop large openings through fire-rated walls and floors with multiple penetrations. Anchor sheets to the wall or floor with common tools. Cut to fit irregular shapes. Can fire-stop openings up to 36 sq. ft. STI brand sheets are lightweight for easy handling and fabrication.

Mortar—Use for filling large openings in concrete floors and walls. Nonshrinking; can be poured, pumped, or troweled. Will not crack due to temperature fluctuations. STI brand yields approx. 1250 to 1425 cu. in. 3M brand yields approx. 697 cu. in. UL Classified except No. 4MM45.

Wrap Strips, Duct and Plenum Wrap—Use wrap strips to fire-stop metallic and nonmetallic pipes, insulated pipes, and cable bundles. Duct wrap protects both grease and ventilation ducts. UL Classified except Nos. 1XTJ1 and 3BE40. Plenum wrap protects plastic pipe.

Plugs—Intumescent fire-stop plugs temporarily or permanently seal metallic conduits or conduit sleeves from the inside, through gypsum or concrete/masonry walls. Install with no special tools required. UL Classified.

Pipe Collars—Intumescent devices expand during a fire to help close off plastic pipe that penetrates fire-rated walls and floors. Seal off burning ABS and PVC pipes, both solid and foam core, as well as CPVC, PVDF, and FRPP pipes. 3-hr. fire rating. Nos. 3BE43 and 3BE44 are UL Classified.

Accessories—Mineral Wool Board No. 3BE69 provides high-temperature thermal control and fire resistance. Foil Tape No. 4MM48 and Metal Restraining Collar No. 4MM49 are for use with STI brand wrap strips. Use No. 4MM48 for tuck-in installation; for external mounting, use No. 4MM49.

Packing Material No. 1XRT3 is for use around metallic, nonmetallic, and insulated pipe; UL Classified.

Description	L	W	H	Mfr. Model	Item No.	Pkg. Qty.
STI						
Pillows						
Pillow	9"	4"	1"	SSB14	**3PA71**	1
Pillow	9"	4"	2"	SSB24	**3PA72**	1
Pillow	9"	6"	2"	SSB26	**3PA73**	1
Pillow	9"	6"	3"	SSB36	**3PA74**	1
Composite Sheets						
Composite Sheet	28"	16"	—	CS1628	**6LE17**	1
Composite Sheet	36"	24"	—	CS2436	**6LE18**	1
Composite Sheet	36"	36"	—	CS3636	**6LE19**	1
Mortar						
6-gal. Pail	—	—	—	SSM106	**4MM45**	1
Wrap Strip						
Wrap Strip for Nonmetallic or Insulated Pipe	12 ft.	1½"	⅛"	SSWRED2	**1XTJ1**	1
Plugs						
2" dia.	—	2"	3"	FP200	**5GKD4**	1
4" dia.	—	4"	3"	FP400	**5GKD5**	1
Pipe Collars For Plastic Pipes						
1½" dia.	—	—	—	LCC150	**3BE65**	1
2" dia.	—	—	—	LCC200	**3BE66**	1
3" dia.	—	—	—	LCC300	**3BE67**	1
4" dia.	—	—	—	LCC400	**3BE68**	1
Accessories						
Mineral Wool Board	48"	1½"	24"	SSAMW	**3BE69**	2
Foil Tape For No. 1XTJ1	30 ft.	2"	—	SSWFT	**4MM48**	1
Metal Restraining Collar For No. 1XTJ1	25 ft.	5"	—	SSWRC2	**4MM49**	1
3M						
Pillows and Self-Locking Pillows						
Pillow	9"	4"	2"	FB-249*	**1MN79**	1
Pillow	9"	6"	2"	FB-269*	**1MN80**	1
Pillow	9"	6"	3"	FB-369*	**1MN81**	1
Self-Locking Pillow	9"	4"	2"	SLP-SMALL*	**5PB34**	1
Self-Locking Pillow	9"	6"	2"	SLP-MEDIUM*	**5PB35**	1
Self-Locking Pillow	9"	6"	3"	SLP-LARGE*	**5PB36**	1
Composite Sheets						
Composite Sheet	28"	16"	—	CS-195+16X28-BOX*	**3BE37**	1
Composite Sheet	36"	24"	—	CS-195+3X2-BOX*	**3BE38**	1
Composite Sheet	36"	36"	—	CS-195+3X3-BOX*	**3BE39**	1
Mortar						
5-gal. Pail	—	—	—	MORTAR	**6VEE4**	1
Wrap Strips, Duct and Plenum Wrap						
Wrap Strip for Nonmetallic or Insulated Pipe	24"	2"	¼"	FS-195+	**3BE40**	1
Wrap Strip for 2" dia. Nonmetallic Pipe	8¼"	2½"	³⁄₁₆"	WS200	**5GUZ8**	24
Wrap Strip for 3" dia. Nonmetallic Pipe	11½"	2½"	³⁄₁₆"	WS300	**5GUZ9**	24
Wrap Strip for 4" dia. Nonmetallic Pipe	14⅞"	2½"	³⁄₁₆"	WS400	**5GVA0**	24
Wrap Strip for Nonmetallic Pipe	8 ft.	³⁄₁₆"	2½"	WS-ROLL	**6VEE5**	1
Duct Wrap	25 ft.	48"	1½"	615+48	**5GKA6**	1
Plenum Wrap	50 ft.	24"	½"	PLENUM-WRAP-5A+(24")	**6MKL2**	1
Pipe Collars For Plastic Pipes						
1½" dia.	—	—	—	ULTRA-PPD-1.5	**3BE43**	1
2" dia.	—	—	—	ULTRA-PPD-2	**3BE44**	1
3" dia.	—	—	—	ULTRA-PPD-3	**3BE45**	1
4" dia.	—	—	—	ULTRA-PPD-4	**3BE46**	1
Accessories						
Packing Material	20 ft. 6"	4"	½"	PM4-BULK	**1XRT3**	1


No. 3PA74


No. 4MM45


No. 1XTJ1


No. 5GKD5


No. 3BE65


No. 3BE69


No. 5PB34


No. 6VEE4


No. 3BE38


No. 5GUZ9


No. 5GKA6


No. 6MKL2


No. 3BE43


No. 1XRT3

FIRESTOP 3M

Fire Barrier Products

PENETRATION SEALANTS

Material expands when exposed to heat or fire. Can be applied to vertical or overhead surfaces. Easy installation, cleanup, and disposal. Nonhalogen formula requires no mixing. Paintable, sag-resistant sealants remain flexible.

4-hr. Latex—STI® brand models are FBC compatible and acoustically tested to reduce noise transmission. Versatile LCI commercial-grade formula has fast-acting intumescence that expands up to 10 times for a wide range of applications. SSS industrial-grade multiviscosity formula has 2-stage intumescence for extremely fast expansion.

3M™ brand bonds to concrete, metal, wood, plastic, and cable jacketing. Formula dries tack-free in 10 to 15 min.; paintable after 72 hr. All models are CPVC compatible.

2-hr. Latex—Dries tack-free in 8 to 12 min.; paintable after 72 hr. CPVC compatible.

4-hr. Watertight Silicone—3M™ intumescent sealant adheres to concrete, gypsum, metal, plastic, and wood.

PENETRATION AND JOINT SEALANTS

Latex sealants are resistant to water; they dry without shrinking and will not re-emulsify after drying. Endothermic fillers absorb heat and release water. Silicone sealants are for through penetrations and joints. Low modulus for ±50% movement capabilities. Ozone- and UV-resistant. CPVC compatible.

JOINT SEALANTS AND SPRAYS

For sealing fire-rated joints. Water-based sealants are highly elastomeric and easily installed. Sprays can be applied with conventional airless spray equipment and have acoustic properties to reduce noise transmission.

PUTTY, PUTTY PADS, AND PUTTY STICKS

Flexible putty has intumescent and endothermic properties and molds easily into penetrations. Pads provide easy application to electrical boxes or other penetrations. Putty sticks stay pliable to allow easy access for cable mining at a later time.


No. 3PA76


No. 4MM47


No. 4MM46


No. 2XKE3


No. 5Z424


No. 18M458


No. 19UC77

No. 55JK93

SMOKE AND ACOUSTICAL CAULK AND SPRAY

Use halogen- and solvent-free material for sealing through penetrations in smoke-rated walls. Flexible.

RESIDENTIAL FIRE BLOCK

Halogen-free sealant resists high temperatures, has minimal shrinkage, and will not sag or run in vertical or overhead applications. Tack-free in 15 min.

FIRE BLOCK FOAM

Foam-in-place fire block and draft stop for nonrated residential and commercial construction. Helps seal, fill, insulate, and bond. Also helps reduce air infiltration. Bonds to concrete, brick, metal, wood, plastic, and cable jacketing.

FIRE BARRIER FOAM AND DISPENSING GUNS

1-step foam is a convenient alternative to 2-part epoxy, mineral wool, or bricks. Expands at a consistent pace in horizontal and vertical applications. Dispensing guns offered separately. Battery-powered cordless gun includes charger, lithium-ion battery, and soft-sided bag. Dispenses up to 60 cartridges per charge.

Description	Color	Size	Mfr. Model	Item No.	Pkg. Qty.	
STI						
Penetration Sealants						
4-hr. Latex	Red	10 oz.	LCI300	**3PA75**	1	*
4-hr. Latex	Red	20 oz.	LCI320	**3BE58**	1	
4-hr. Latex	Red	5 gal.	LCI305	**3PA76**	1	*
4-hr. Latex	Red	10 oz.	SSS100	**4MM47**	1	
4-hr. Latex	Red	20 oz.	SSS120	**3BE56**	1	†
4-hr. Latex	Red	29 oz.	SSS129	**3BE57**	1	†
4-hr. Latex	Red	5 gal.	SSS105	**4WR98**	1	
Penetration and Joint Sealants						
Latex Endothermic Sealant	Red	10 oz.	LC150	**19T027**	1	‡
Latex Endothermic Sealant	Red	10 oz.	LC150	**12Z613**	12	‡
Latex Endothermic Sealant	Red	5 gal.	LC155	**12Z614**	1	‡
Joint Sealants and Sprays						
Latex Elastomeric Sealant	Blue	10 oz.	ES100	**3BE59**	1	
Latex Elastomeric Sealant	Blue	20 oz.	ES120	**19T026**	1	
Elastomeric Spray	Blue	5 gal.	AS205	**4MM44**	1	†
Elastomeric Spray	Red	5 gal.	AS205R	**12Z616**	1	†
Putty and Putty Pads						
Intumescent Putty	Red	36 cu in.	SSP100	**4MM46**	1	
Intumescent Putty Pad	Red	7½"L x 7½"W	SSP4S	**3BE63**	1	
Intumescent Putty Pad	Red	9"L x 9"W	SSP9S	**3BE64**	1	
Smoke and Acoustical Caulk and Spray						
Caulk	White	20 oz.	SNS120W	**2XKE3**	1	
Spray	White	5 gal.	SNS205	**2XKE5**	1	
3M						
Penetration Sealants						
4-hr. Latex	Red-Brown	10 oz.	CP-25WB+10.1OZ	**5Z337**	1	*
4-hr. Latex	Red-Brown	20 oz.	CP-25WB+20OZ	**5ZW91**	1	*
4-hr. Latex	Red-Brown	2 gal.	CP-25WB+2GAL	**5ZX52**	1	*
4-hr. Latex	Red-Brown	5 gal.	CP-25WB+5GAL	**5Z381**	1	*
2-hr. Latex	Yellow	10 oz.	IC-15WB+-10.1OZ	**3BE31**	1	
4-hr. Watertight Silicone	Gray	10 oz.	3000WT-10.1OZ	**5PB37**	1	‡
Penetration and Joint Sealants						
Latex Sealant	Red	10 oz.	FD 150+	**18M459**	1	‡
Latex Sealant	Red	20 fl. oz.	FD 150+	**18M460**	1	‡
Latex Sealant	Red	4.5 gal.	FD 150+	**18M461**	1	‡
Latex Sealant	Blue	10 oz.	FD 150+	**5ZX57**	1	‡
Latex Sealant	Limestone	10 oz.	FD 150+	**2UYC8**	1	‡
Silicone Sealant	Gray	10 oz.	1000-N/S-10.1OZ	**3BE35**	1	†
Silicone Sealant	Gray	10.3 oz.	2000+10.3OZ	**2JDG5**	12	‡
Joint Spray						
Elastomeric Spray	Red	5 gal.	FD-200	**5GUZ4**	1	†
Putty Pads and Putty Sticks						
Moldable Putty Pad	Red-Brown	7"L x 7"W	MPP+7"X7"*	**5YR04**	1	†
Moldable Putty Pad	Red-Brown	9½"L x 9½"W	MPP+9.5"X9.5"*	**5ZM24**	1	†
Moldable Putty Stick	Red-Brown	1½" Dia. x 6"H	PUTTYSTK R	**2UYE9**	1	
Moldable Putty Stick	Red-Brown	1½" Dia. x 11"L	MP+1.4X11	**5Z424**	1	†
Residential Fire Block						
Sealant	Gray	10 oz.	FB136	**5PB33**	1	
Fire Block Foam						
Aerosol	Orange	12 oz.	FB-FOAM-ORANGE	**18M458**	1	
Fire Barrier Foam and Dispensing Guns						
Foam Sealant	Red-Brown	13 oz.	FIP 1-STEP	**19UC77**	6	
Manual Dispensing Gun for No. 19UC77	Black	—	00076308146122	**54ZT49**	1	
Battery-Powered Dispensing Gun for No. 19UC77		—	DISP_GUN	**55JK93**	1	

** UL Listed. † UL Classified and FM Approved. ‡ UL Classified.*


No. 3BE71


Nos. 3BE70 and 6LE13 (Sold Separately)


No. 13P641


No. 6LE14

FIRESTOP 3M

Fire Barrier Products

Cable Pass-Through Devices and Brackets—Intumescent material expands rapidly when exposed to fire or high heat to quickly seal pathways. STI® EZ Path® devices eliminate the need to remove and reinstall or adjust fire-stop materials. Nos. 6LE11 and 3BE71 include the EZ Path device and 1 set of wall plates and labels. Nos. 53XH82 and 53XH83 are UL and C-UL Classified. 3M™ pass-through device is hinged for easy retrofit installation around cables.

Cable Grommets—Eliminate the need for putty or sealant. 2-pc. polymer grommets snap together for easy installation. UL and C-UL Classified.

Sleeve Kits—Ready-to-install kits include sleeves, brackets, screws, and putty. Nos. 5GUZ6 and 5GUZ7 are UL Classified.

Description	L	W	H	Brand	Mfr. Model	Item No.	Pkg. Qty.
Cable Pass-Through Devices							
EZ Path® Series 22 Pathway Kit	10½"	1½"	1½"	STI	EZD22	**6LE11**	1
EZ Path® Series 33 Pathway and Wall Plate Kit	10½"	3"	3"	STI	EZDP33FWS	**3BE71**	1
EZ Path® Series 33 Pathway	10½"	3"	3"	STI	EZD33FWS	**3BE70**	1
EZ Path® Series 200 Pathway	6⁹⁄₁₆"	4⅛"	3¹¹⁄₁₆"	STI	EZDR200	**53XH82**	1
EZ Path® Series 400 Pathway	6"	3"	5¹³⁄₃₂"	STI	EZDR400	**53XH83**	1
Cable and Pipe Round Pass-Through	10"	2"	2"	3M	PT2RD	**1XRR4**	1
Cable Pass-Through Brackets							
EZ Path® Double Wall Plate Kit	12"	6"	2"	STI	EZP233W	**3BE73**	1
EZ Path® Triple Wall Plate Kit	12"	6"	2"	STI	EZP333W	**3BE74**	1
Multigang Pathway Wall Bracket	10"	2"	6"	STI	EZP544W	**1FET7**	1
Cable Grommets							
Fits Max. Cable O.D. 14mm	1⅝"	1"	9½"	STI	RFG2	**13P641**	10
Plates							
Conduit Attachment	6¼"	7½"	2⅛"	STI	EZP133CA	**6LE12**	2
Circular Wall	6¼"	7½"	2⅛"	STI	EZP133CW	**6LE13**	2
Sleeve Kits							
1-Pc. Sleeve, 1" dia.	12"	1"	1"	STI	FS100	**6LE14**	1
1-Pc. Sleeve, 2" dia.	2"	2½"	2"	STI	FS201	**1FET8**	1
2-Pc. Split Sleeve, 2" dia.	12"	6"	—	STI	FSR200	**1FEU2**	1
1-Pc. Sleeve, 2" dia.	12"	—	—	3M	DT200	**5GUZ6**	1
1-Pc. Sleeve, 4" dia.	12"	—	—	3M	DT400	**5GUZ7**	1

FEDERAL SIGNAL

Hazardous Location Visual Alarms

- NEMA 4X Rated
- UL and C-UL Listed

Note: fpm = Flashes per minute.

STROBE LIGHTS
- Lamp life: 10,000 hr.

GRP and Dome Guard— 60 fpm. 21J strobe. ATEX and IECEx Certified, CE Listed.

Glass Dome with Dome Guard—80 fpm. Nos. 48Z703 to 48Z704 have a 4-wire supervisable power circuit for use in fire alarm applications. Nos. 1N754 and 1N755 are CSA Approved.

Polycarbonate Dome— 60 fpm.

LED WARNING LIGHTS
- Lamp life: 50,000 hr.
- Multiple flash patterns

GRP with Dome Guard— Multipattern LED. 60, 75, 90 fpm. 8 on-board flash patterns. ATEX and IECEx Certified, and CE Listed.

Glass Dome with Dome Guard—Flashing LED. 60 fpm. Marine Rated.

Polycarbonate Dome— Flashing LED. 60 fpm.



No. 46KT72



Nos. 1N754 and 1TAH3



Nos. 1N900 and 1TAF8

Voltage	Mounting	H	Mfr. Model	RED Item No.	AMBER Item No.	GREEN Item No.
Strobe Lights						
24VDC	Surface	8 61/64"	G-STR-024	**46KT78**	**46KT72**	**46KT75**
120VAC	Surface	8 61/64"	G-STR-120	**46KT85**	**46KT79**	**46KT82**
120VAC	(F) 3/4" NPT	9 1/4"	151XST	**1N754**	**1N755**	—
120VAC	Surface	9 1/4 ft.	151XST	**48Z702**	**48Z701**	—
12/24VDC	Surface	9 1/4 ft.	154XST	**48Z704**	**48Z703**	—
120VAC	(F) 1/2" NPT	7 1/2"	225XST	**1N900**	**1N902**	—
LED Warning Lights						
24VDC	Surface	7 1/2"	G-LED-DC	**46KU35**	**46KU29**	**46KU32**
120 to 240VAC	Surface	7 1/2"	G-LED-AC	**46KU21**	**46KU15**	**46KU18**
24VAC/DC	(F) 3/4" NPT	9 1/4"	191XL	**1TAH1**	**1TAH2**	—
120/240VAC	(F) 3/4" NPT	9 1/4"	191XL	**1TAH3**	**1TAH4**	—
120/240VAC	Surface	9 1/4 ft.	191XL	**48Z706**	**48Z705**	—
24VAC/DC	(F) 1/2" NPT	7 1/2"	225XL	**1TAF6**	**1TAF7**	—
120/240VAC	(F) 1/2" NPT	7 1/2"	225XL	**1TAF8**	**1TAF9**	—

Hazardous Location Audible Alarms

FEDERAL SIGNAL

Vibrating Horn—Produces coded blasts or sustained tones. UL and C-UL Listed; CSA Certified.

Hazardous Location Horn—Features internal volume control. NEC Class I, Div. 1, Groups C and D. Class II, Div. 1, Groups E, F, and G. Class III. UL and C-UL Listed; CSA Certified.

Speaker/Amplifiers—With volume control. NEC Class I, Div. 2, Groups A, B, C, and D. Class II, Div. 2, Groups F and G. Class III. UL and C-UL Listed. Require Universal Tone Module No. 1N894 (sold separately, page 1885).

Electronic Sounder—Multivoltage sounder produces 15 unique tones. ATEX and IECEx Certified, CE Listed, and Pending UL and C-UL.



No. 3WU54



No. 1N749



No. 3WU52



No. 46KU47

Voltage	Decibels	H	W	D	Mfr. Model	Item No.
Vibrating Horn						
120VAC	100dB @ 10 ft.	4 1/2"	4 17/32"	3 5/8"	350WBX	**3WU54**
Hazardous Location Horn						
120VAC	100dB	7 5/8"	6 1/2"	6 1/2"	31X	**1N749**
Speaker/Amplifiers						
24VDC	0 to 110dB	12 1/4"	7 5/16"	8 1/2"	300GCX	**3WU52**
120VAC	0 to 110dB @ 10 ft.	12 1/4"	7 5/16"	8 1/2"	300GCX	**3WU53**
Electronic Sounder						
120/230VAC, 24VDC	96dB	8 15/64"	5 15/64"	5 15/64"	G-SND-MV-D	**46KU47**

Audible Alarms

FEDERAL SIGNAL

Vibratone® Horns—Can produce coded blasts or sustained tone. UL Listed. No. 4A967 is CSA Certified and FM Approved. No. 35GX51 is Marine Rated and Type 4X when installed with included panel-mount gasket. C-UL Listed.

Electronic Siren—Multivoltage siren produces 1 of 2 tones. UL and C-UL Listed. Marine Rated. Type 4X.

Resonating Horn—Resonates sound by means of a diaphragm. For indoor/outdoor use. UL Listed, CSA Certified.

Electronic Horn—Capable of producing 2 high-decibel horn tone outputs from the same unit.

Weatherproof Back Box—For surface mounting of No. 4A967 horn and No. 5LE20 speaker amplifier.

Flush-Mount Trim—Used to mount No. 4A967 Vibratone Horn.

Telephone Extension Ringers— Designed to draw attention. Activated by an analog phone. UL Listed, FCC Approved.

SelecTone® Speaker Amplifiers—With volume control. Require Universal Tone Module No. 1N894 (sold separately). NEMA 3R. UL Listed. CSA Approved.

Universal Tone Module—For use with Nos. 3WU52, 3WU53, 4A968, and 5LE20 signaling devices. Microcontroller produces 1 of 32 different tones.

Streamline® Low-Profile Mini Sounder—Produces 28 tones. NEMA 4X.



No. 4A967



No. 52XJ35



No. 4A968



No. 5LE16

Description	Voltage	Decibels	H	W	D	Mfr. Model	Item No.
Vibratone® Horn	120VAC	100dB @ 10 ft.	4"	4"	2 1/2"	350	**4A967**
Vibratone® Horn	16 to 33VDC, 12 to 24VDC	90dB	4 1/8"	4 1/8"	2 51/64"	450E	**35GX51**
Electronic Siren	120/240VAC	104 to 113dB	10 7/64"	10 59/64"	9 7/16"	ESIREN	**52XJ38**
Resonating Horn	120VAC	105dB	8"	8"	19 3/4"	55	**1N745**
Electronic Horn	24VDC	96 to 117dB	8 1/2"	8 15/16"	9 39/64"	EHORN-024	**52XJ35**
U-Bracket Mounting Kit for No. 52XJ35	—	—	—	—	—	EHORN-TKIT	**52XJ37**
Weatherproof Back Box	—	—	4 17/32"	4 17/32"	2 7/16"	WB	**4A969**
Flush-Mount Trim	—	—	1/4"	5 9/16"	—	TR	**5LE17**
Telephone Extension Ringer, Bell	120VAC	98dB @ 10 ft.	5 1/8"	4 13/64"	4 3/4"	TELB	**3LY37**
Telephone Extension Ringer, Horn	120VAC	100 dB @ 10 ft.	5 1/8"	4 13/16"	3 5/8"	TELH	**3LY38**
SelecTone® Speaker Amplifier	120VAC	110dB @ 10 ft.	12 1/4"	8"	8 1/4"	300GC	**4A968**
SelecTone® Speaker Amplifier	120VAC	64 to 88dB	4 1/2"	4 1/2"	3 7/16"	50GC	**5LE20**
Universal Tone Module	—	—	7/8"	2 7/16"	3 1/2"	UTM	**1N894**
Streamline® Low-Profile Mini Sounder	9 to 28VDC	82 to 100dB	3"	3 5/8"	1 7/8"	LP4	**5LE16**



No. 16G564



No. 16G568



No. 16G570

Vibrating Horns and Bells

Edwards Signaling

Horns—Adjustable-volume horns provide high-decibel signals. Surface-mount are for indoor use. Panel-mount has NEMA 4X enclosure for indoor/outdoor use. UL Listed except for Nos. 16G561 and 16G562.

Hazardous Location Horns—Designed for use in locations where electrical supervision of signaling circuit field wiring is required, or for unsupervised signaling applications. NEMA Type 4X. UL Listed.

Bells—Produce a continuous rapid-fire ringing sound for timing, scheduling, paging, and general alarm applications. UL Listed. Nos. 16G571-16G573 are also FM Approved.

Voltage	Decibels	Mounting	H	W	D	Mfr. Model	Item No.
Horns							
24VAC	78 to 103dB	Surface	4⅞"	4⅞"	3⁵⁄₁₆"	876-G5	**16G564**
120VAC	78 to 103dB	Surface	4⅞"	4⅞"	3⁵⁄₁₆"	876-N5	**16G565**
24VDC	78 to 101dB	Surface	4⅞"	4⅞"	2⅛"	877-G1	**16G566**
24VAC	78 to 103dB	Surface	5"	5"	2⅛"	874-G5	**16G561**
120VAC	78 to 103dB	Surface	5"	5"	2⅛"	874-N5	**16G562**
120VAC	78 to 103dB	Panel	4⅝"	4⅝"	1⅞"	870P-N5	**16G559**
24VDC	78 to 91dB	Surface	4⅝"	4⅝"	1⅞"	871P-G1	**16G560**
Hazardous Location Horns							
120VAC	100dB	Wall/Pipe	7⅜"	7⅜"	4³⁄₁₆"	878EX-N5	**16G568**
24VDC	97dB	Wall/Pipe	7⅜"	7⅜"	4³⁄₁₆"	879EX-G1	**16G569**
4" Bells							
24VAC	88dB	Surface	4"	4½"	2¹³⁄₃₂"	340-4G5	**16G570**
120VAC	88dB	Surface	4"	4½"	2¹³⁄₃₂"	340-4N5	**16G571**
12VDC	90dB	Surface	4"	4"	2¹³⁄₃₂"	435-4E1	**16G575**
24VDC	90dB	Surface	4"	4"	2¹³⁄₃₂"	435-4G1	**16G576**
6" Bells							
24VAC	92dB	Surface	6"	6"	2²⁹⁄₃₂"	340-6G5	**16G572**
120VAC	92dB	Surface	7⅛"	7⅛"	3¹¹⁄₁₆"	340-6N5	**16G573**
6VDC	92dB	Surface	6"	6"	2¹³⁄₃₂"	435-6C1	**16G577**



No. 3WU56



No. 48Z710

Visual/Audible Alarms

FEDERAL SIGNAL

Streamline® Low-Profile Strobe—Provide two tone patterns with visual signal. 60 fpm. PLC compatible. CE Compliant.

Flashing Warning Lights, LED—Synchronized sound and visual signal. 60/75 fpm. UL and C-UL Listed.

Note: fpm = Flashes per minute.

Voltage	Decibels	Lamp Life	H	Dia.	Mfr. Model	AMBER Item No.	RED Item No.
Streamline® Low-Profile Strobe							
18 to 30VDC	82 to 100dB @ 10 ft.	10,000 hr.	3½"	3⅔"	LP7	**3WU56**	**3WU57**
Flashing Warning Lights, LED							
120VAC	85dB @ 10 ft.	60,000 hr.	6½"	5¾"	AV1-LED	**48Z709**	**48Z710**
24VDC	85dB @ 10 ft.	60,000 hr.	6½"	5¾"	AV1-LED	**48Z711**	**48Z712**



No. 16G834



No. 4ZZH2

Edwards Signaling

Buzzers

- For indoor use

Surface-mount buzzers have continuous sound pattern. Nos. 16G834 and 16G835 have adjustable volume and vibrating armature. Nos. 16G834 and 16G835 are UL Listed.

Description	Voltage	Decibels	Mounting	Color	H	W	D	Brand	Mfr. Model	Item No.
Vibrating AdaptaBuzzer™	24VAC	70dB	Surface	Gray	2¹¹⁄₃₂"	5⁷⁄₆₄"	2¼"	Edwards Signaling	340A-G5	**16G834**
Vibrating AdaptaBuzzer™	120VAC	70dB	Surface	Gray	—	—	2¼"	Edwards Signaling	340A-N5	**16G835**
Buzzer	40 to 120VAC	80dB	Surface	Black	3⁹⁄₆₄"	1⅝"	—	GE	GE-PB120A	**4ZZH2**



No. 53XP87



No. 53XP89



No. 53XP91



No. 53XP90



No. 53XP88



No. 53XP92

Personal Air Horns

Provide a piercing 120dB blast at 10 ft. to deter a would-be assailant or unfriendly animal.

H	Coverage	Mfr. Model	Item No.
Plastic			
2"	39 ft.	FSB1	**53XP87**
3"	39 ft.	FSB5BU	**53XP89**
11"	65 ft.	FSA6	**53XP91**
Metal			
3"	39 ft.	FSB5CBU	**53XP90**
9"	39 ft.	FSB5R	**53XP88**
6⅝"	65 ft.	FSA6R	**53XP92**

GA GRAINGER APPROVED

LED Tower Lights

- Lamp life: 100,000 hr.

Status and hazard indicators employ energy-efficient, long-lasting LED light modules. 80 fpm.

Note: fpm=Flashes per minute.

TOWER LIGHTS

- cUR(R)s and CE Certified, RoHS Compliant

Assemble quickly with interlocking construction. Bases accept max. 5 modules including horn.

No. 6JZG7 has 85dB horn with adjustable volume.

Light modules provide bright and even LED light distribution through prism-cut lenses.

PREASSEMBLED TOWER LIGHTS

- Single-Color are CE Certified and RoHS Compliant
- 3-Color are cURus Certified and RoHS Compliant

Nonreplaceable LED light modules are mounted on a base unit. Direct-mount units include mounting hardware.



Base with Light Modules
No. 6JZG0

Description/Color	Voltage	Mounting	H	Dia.	Item No.
Tower Lights					
Base and Horn					
Base	90 to 240VAC	Surface	14¾"	2¾6"	**6JZG0**
Base	24VAC/DC	Surface	14¾"	2¾6"	**6JZF9**
Horn Module	24VAC/DC	—	1⅜"	2¾6"	**6JZG7**
Single Color Light Modules					
Red	24VAC/DC	Direct	2"	2¾6"	**6JZG1**
Amber	24VAC/DC	Direct	2"	2¾6"	**6JZG2**
Green	24VAC/DC	Direct	2"	2¾6"	**6JZG3**
Blue	24VAC/DC	Direct	2"	2¾6"	**6JZG4**
Clear	24VAC/DC	Direct	2"	2¾6"	**6JZG5**
3 Colors-in-1 Light Module					
Red, Amber, Green	24VAC/DC	Direct	2"	2¾6"	**6JZG6**
Preassembled Tower Lights					
Single Color Light Modules					
Red, Amber, Green	24VAC/DC	Direct	8 13⁄64"	1"	**6JZF7**
Red, Amber, Green	24VAC/DC	Direct	13½"	1"	**6JZF8**
3 Colors-in-1 Dome Light Module					
Red, Amber, Green	24VAC/DC	Direct	7¾"	2¾6"	**6JZG9**
Red, Amber, Green	24VAC/DC	Surface	16⅞"	2¾6"	**6JZG8**

GA GRAINGER APPROVED

Wall-Mount 3-Color LED Tower Lights

- Lamp life: 50,000 hr.
- UL Listed, RoHS Compliant

Status/hazard indicators are housed in a low-profile ABS body that fits small spaces. 80 fpm. Polycarbonate lens. 7⅝"H x 3½"W x 1½"D.

Note: fpm=Flashes per minute.



No. 22UU24

Description	Voltage	Item No.
Steady/Flash	90 to 240VAC	**22UU22**
Steady/Flash/Buzzer (80dB)	90 to 240VAC	**22UU24**



No. 30XT70



No. 30XT55



No. 26ZT21



No. 26ZT50

Dayton

50mm and 56mm Dia. Tower and 86mm Dia. Warning Lights

- IP65 polycarbonate housing
- Lead wire type

56mm dia. tower lights feature steady and flashing stackable LED modular components. Available pole with surface, or wall mounting bracket, or direct mounting. Optional modular buzzer kits. 86mm dia. warning lights feature high-intensity LED lights, selectable steady/flashing/rotating modes. Available pole mounting or wall-mount bracket. UL Listed and CSA Certified.

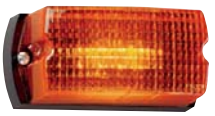
Voltage	Watts	AMBER Item No.	BLUE Item No.	RED Item No.
Tower Light Module Flashing, 50mm Diameter				
24VAC/DC	1.50W	**30XT69**	**30XT70**	—
120VAC	0.80W	—	—	**30XT72**
240VAC	0.80W	**30XT63**	—	—
240VAC	0.70W	**30XT55**	—	—

Mounting	Voltage	RED Item No.	RED, GREEN Item No.	RED, YELLOW, GREEN Item No.	RED, YELLOW, GREEN, BLUE Item No.	RED, YELLOW, GREEN, BLUE, CLEAR Item No.	RED, YELLOW Item No.
Tower Light LED Assembly, Steady, Flashing, 20" Cord Length, 56mm Diameter							
Support Tube	24VAC/DC	**26ZT20**	**26ZT21**	**26ZT23**	**26ZT24**	**26ZT25**	—
Support Tube	90 to 240VAC	**26ZT26**	**26ZT27**	**26ZT29**	**26ZT30**	**26ZT31**	—
Direct	24VAC/DC	**26ZT33**	**26ZT34**	**26ZT36**	**26ZT37**	—	—
Direct	90 to 240VAC	**26ZT39**	**26ZT40**	**26ZT42**	**26ZT43**	**26ZT44**	**26ZT41**

Power Source	RED Item No.	YELLOW Item No.	GREEN Item No.	CLEAR Item No.	BLUE Item No.
Warning Light, Stud Mounting, 86mm Diameter					
12-24	**26ZT50**	**26ZT51**	**26ZT52**	**26ZT54**	—
90-240	**26ZT55**	—	**26ZT57**	**26ZT59**	**26ZT58**
Warning Light, Includes Buzzer, Stud Mounting, 86mm Diameter					
12-24	—	—	**26ZT62**	**26ZT64**	—
90-240	**26ZT65**	—	**26ZT67**	**26ZT69**	**26ZT68**

Description	For Use With	Item No.
Tower Light Accessories		
Tower Light Sounder Tier, 100dB	26ZT20-26ZT24, 26ZT26-30, 26ZT33-37, 26ZT39-43	**26ZT19**
Surface Mount, luminum Base, luminum, 10¼" H	26ZT20-26ZT31	**26ZT17**
Wall Mount, Steel Base, luminum, 9½" H	26ZT20-26ZT31	**26ZT16**
Wall Mount Bracket, Steel, 3" H	26ZT20-26ZT44	**26ZT32**
Terminal Holder, White, Nylon, 2 13⁄64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT48**
Terminal Holder, White, Nylon, 2 13⁄64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT49**
Terminal Holder, Black, Nylon, 2 13⁄64" H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT50**
Base Unit, Black, Nylon, 4 13⁄32" H	30XT48, 30XT49, 30XT50	**30XT51**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT46**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT47**


No. 5WF88


No. 4RM44


No. 3T947


No. 4A964


No. 4A965


No. 3TCV1


No. 48Z708


No. 2KFD1


No. 5T588


No. 45TP08


No. 3TDR1

FEDERAL SIGNAL

Signaling & Warning Lights

- UL Listed, except Vehicular Warning Lights

Note: fpm=Flashes per minute.

Voltage	Lamp Life	Mounting	H	Dia.	Mfr. Model	RED Item No.	AMBER Item No.	GREEN Item No.
Strobe Lights								
Streamline® Low-Profile								
120VAC	7000 hr.	Edison A19 Screw-in	6 1/8"	3 1/8"	LP3E	**5WF85**	**5WF84**	—
12 to 48VDC	7000 hr.	(M) 1/2" NPT w/Locknut	5 13/16"	3 1/8"	LP3M	**5WF88**	**5WF86**	**5WF87**
120VAC	7000 hr.	(M) 1/2" NPT w/Locknut	5 13/16"	3 1/8"	LP3M	**5WF91**	**5WF89**	**5WF90**
120VAC	7000 hr.	(F) 1/2" NPT	5 3/4"	3 1/8"	LP3P	**5WF93**	**5WF92**	—
120VAC	7000 hr.	Surface	5"	3 1/8"	LP3S	**3TDG4**	—	—
12 to 48VDC	7000 hr.	T-Mount	5 1/8"	3 1/8"	LP3T	**5WF95**	**5WF94**	—
120VAC	7000 hr.	T-Mount	5 1/8"	3 1/8"	LP3T	**3TDE8**	—	—
—	7000 hr.	Permanent	3 3/8"	5"	LP6	—	**5WF96**	—
12 to 48VDC	7000 hr.	Surface	3 3/8"	5"	LP6	**5WF97**	—	—
120VAC	7000 hr.	Surface	3 3/8"	5"	LP6	**3TCX8**	**3TCX5**	—
12VDC	—	Surface	2 5/8"	—	LP1	—	**3TCX9** *	**3TCY3** *
120VAC	4000 hr.	Surface	2 5/8"	—	LP1	**4RM46** *	**4RM44** *	**4RM45** *
Electraflash®								
12VDC	4000 hr.	Surface	5"	5 1/2"	141ST	—	**3T944**	—
—	4000 hr.	(F) 1/2" NPT or Surface	5"	5 1/2"	141ST	**3T943**	—	—
24VDC	4000 hr.	Surface	5"	5 1/2"	141ST	—	**3T946**	—
—	4000 hr.	(F) 1/2" NPT or Surface	5"	5 1/2"	141ST	**3T945**	—	—
120VAC	4000 hr.	(F) 1/2" NPT	5 1/4"	5 1/2"	141ST	—	**3T948**	—
120VAC	4000 hr.	(F) 1/2" NPT or Surface	5 1/4"	5 1/2"	141ST	**3T947**	—	—
Fireball®								
120VAC	10,000 hr.	(F) 1/2" NPT or Surface	5 1/4"	4 1/8"	FB2PST	**4A963**	**4A964**	—
Starfire®								
120VAC	10,000 hr.	(F) 1/2" NPT	8 1/2"	5 11/16"	131DST	**4A965**	**4A966**	—
Revolving Lights								
Electraray®								
120VAC	1000 hr.	(F) 1/2" NPT	7 1/4"	5 1/2"	225	**3TCV1**	**3TCU8**	**3TCU9**
Commander® LED								
120VAC	50,000 hr.	Surface	11 3/8"	9 1/8"	371LED	**48Z708**	**48Z707**	—
Steady Burn LED Lights								
StreamLine® Low Profile								
24VDC	100,000 hr.	(F) 1/2" NPT	5 3/4"	3 1/8"	LP3PL	**2KFD2**	**2KFC9**	**2KFD1**
24VDC	100,000 hr.	T-Mount	5 1/8"	3 1/8"	LP3TL	**2KFD5**	**2KFD3**	**2KFD4**
24VDC	100,000 hr.	(M) 1/2" NPT	5 13/16"	3 3/8"	LP3ML	**2KFD8**	**2KFD6**	**2KFD7**
120VAC	100,000 hr.	(F) 1/2" NPT	5 3/4"	3 1/8"	LP3PL	**2KFE2**	**2KFD9**	**2KFE1**
120VAC	100,000 hr.	T-Mount	5 1/8"	3 1/8"	LP3TL	**2KFE5**	**2KFE3**	**2KFE4**
120VAC	100,000 hr.	(M) 1/2" NPT	5 13/16"	3 3/8"	LP3ML	**2KFE8**	**2KFE6**	**2KFE7**
Warning Light Wall-Mount Kit								
—	—	(F) Pipe	6"	—	LWMB2	—	**5T588** †	—
Vehicular Warning Lights								
851 Series								
12 to 24VDC	3000 hr.	Open Style	7 1/2"	6 39/64"	420450-02	—	**45TP08**	—
FireBolt®								
12/72VDC	3000 hr.	Surface	3 5/8"	5"	220100-02	—	**3TDR1**	—
12 to 72VDC	3000 hr.	Magnetic	3 5/8"	5"	210873-02	—	**3TDR2**	—
12/48VDC	3000 hr.	Surface	3 5/8"	5"	220105-02	—	**3TDR3**	—
12VDC	3000 hr.	Magnetic	3 5/8"	5"	220110-02	—	**3NRP2**	—

** Rectangular design 6"L x 3 1/8"W. † Dim. 5"W x 5 3/4"D. Gray color.*

STROBE LIGHTS

Streamline® Low-Profile—Use on control panels, forklifts, and other flat or flush surfaces where space is limited. 7000-hr. lamps: 65 to 95 fpm; 4000-hr. lamps: 80 fpm. NEMA 4X, except Nos. 5WF84 and 5WF85 are NEMA 3R.

Electraflash®—Use on maintenance vehicles or material handling equipment. 80 fpm. NEMA 3R.

Fireball®—Vibration-resistant light provides a superior visual signal in high noise industrial environments. 90 fpm. NEMA 4X.

Starfire®—Intense double-flash for use in a variety of emergency warning applications. 80 fpm. NEMA 3R.

REVOLVING LIGHTS

Electraray®—Designed to be easily accessed for quick inspection and replacement. 90 fpm. NEMA 4X.

Commander® LED—Heavy-duty lights employ a reflector-focused 12-LED array to produce a high-intensity beam that rotates 360°. NEMA 4X.

STEADY BURN LED LIGHTS

StreamLine® Low Profile—For a variety of applications where space is limited. NEMA 4X.

WARNING LIGHT WALL-MOUNT KIT

Includes bracket, plate, and mounting screws. Suitable for NEMA 3R applications.

VEHICULAR WARNING LIGHTS

851 Series—For harsh environments. Feature open-style aluminum base with built-in high/low double flash.

Firebolt™—Economical light with replaceable strobe tube. Available in single-flash (Nos. 3TDR1 and 3TDR2) or double-flash (Nos. 3TDR3 and 3NRP2). Magnetic-mount models Nos. 3TDR2 and 3NRP2 include 10-ft. power cord with plug adapter. 60 fpm.


No. 2ERN7


No. 2ERP3


No. 2ERP7

Strobe Warning Lights

GRAINGER APPROVED

- Lamp life: 8000 hr.

72 fpm signals help identify dangerous conditions and raise safety awareness. Polycarbonate lens material. NEMA 4X. All are UL Listed, except for Nos. 2ERT3 and 2ERT4 which are CE Certified.

Note: fpm=Flashes per minute.

Voltage	Mounting	H	Dia.	RED Item No.	AMBER Item No.	GREEN Item No.
120VAC	Edison A19 Screw-in	6 1/16"	2 3/4"	**2ERN7**	**2ERN6**	—
12 to 80VDC	(M) 1/2" NPT	6 3/8"	2 3/4"	**2ERP1**	**2ERN8**	**2ERN9**
120VAC	(M) 1/2" NPT	6 3/8"	2 3/4"	**2ERP4**	**2ERP2**	**2ERP3**
120VAC	(F) 1/2" NPT	6 1/16"	2 3/4"	**2ERP6**	**2ERP5**	—
12 to 80VDC	Surface	5 1/4"	3 3/4"	**2ERP8**	**2ERP7**	—
12 to 80VDC	Surface	3 5/8"	5"	**2ERT1**	**2ERP9**	—
12 to 80VDC	Surface	4 1/2"	5 3/4"	—	**2ERT3**	—
12 to 80VDC	Surface	2 1/2"	5 3/4"	—	**2ERT4**	—

SOUND SEAL
CONTROLLING NOISE IN EVERY ENVIRONMENT

Noise Absorbers

- Meet ASTM E84 Class I Fire Rating

Eliminate noise and echo in industrial and community environments.

Wall Blanket—Abrasion-resistant fiberglass blanket has one quilted side and is impervious to dirt, grease, and solvents. Mounts on walls, ceilings, or anywhere with hard reflective surfaces. Edges are sewn and finished. Also has 4 grommets for easy installation.

Portable Screen—Use portable screen individually or in groups to form partial noise enclosures. Powder-coated tubular steel frame with a reinforced vinyl barrier and absorber curtain.

Perforated Steel Panels—22-ga. powder-coated panel encases a 3-lb. density fiberglass core. Built-in mounting brackets. Panels mount on walls, ceilings, partitions, or other flat surfaces.

Overhead Sound Baffle—Standard economy baffle has a smooth casing.

Acoustical Ceiling Tiles—Designed to replace existing grid ceiling tiles. Perforated metal tiles fit into existing support grid and have a powder-coated finish.

Decorative Fabric Panels—Ready-to-mount panels feature fabric-covered 6- to 7-lb. density fiberglass core that provides maximum noise absorption. Mount easily to walls, partitions, or any flat surface.

L	W	Thickness	Color	NRC Rating	Item No.
Wall Blanket					
8 ft.	4 ft.	1"	Gray	0.75	**5T498**
Portable Screen					
8 ft.	4 ft.	1"	Gray	0.75	**5T512**
Perforated Steel Panels					
5 ft.	2½ ft.	2"	White	1.05	**4RC07**
8 ft.	2½ ft.	2"	White	1.05	**4RC08**
Overhead Sound Baffle, Pkg. of 10					
2 ft.	4 ft.	1.5"	White	1.13	**3TPT6**
Acoustical Ceiling Tiles, Pkg. of 10					
2 ft.	2 ft.	1"	White	0.95	**3TPU2**
4 ft.	2 ft.	1"	White	0.95	**3TPU3**
Decorative Fabric Panels					
2 ft.	2 ft.	1"	Gray	0.75	**1VDR2**
2 ft.	2 ft.	1"	Blue	0.75	**1VDR4**
2 ft.	2 ft.	1"	Neutral	0.75	**1VDR6**
4 ft.	2 ft.	1"	Gray	0.75	**4RC06**
4 ft.	2 ft.	1"	Blue	0.75	**4RC05**
4 ft.	2 ft.	1"	Neutral	0.75	**1VDT7**



Wall Blanket



Portable Screen—4 Screens Shown (Sold Individually)



Perforated Steel Panel



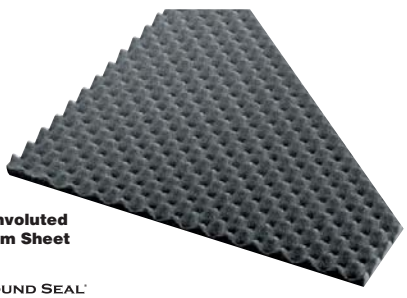
Overhead Sound Baffle



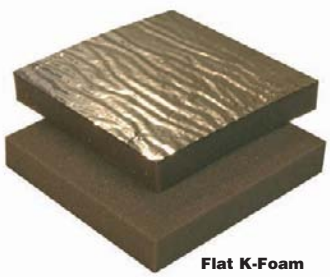
Acoustical Ceiling Tiles



Decorative Fabric Panels (Sold Individually)



Convoluted Foam Sheet



Flat K-Foam



Quilted Absorber Roll

SOUND SEAL
CONTROLLING NOISE IN EVERY ENVIRONMENT

Acoustic Foam Sheets and Quilted Absorber Rolls

Can be easily cut into custom sizes and applied to most surfaces.

Convoluted Foam Sheets—1.5-lb. density, open-cell cone-shape polyurethane foam. Provide greater absorption to surface areas than flat foam. Ideal for low- to mid-range frequency sound absorption. Resist oil, alkali, and mild acids. Not for use near open flame or sparks. Temp. range: -45° to 250°F.

Flat K-Foam Roll—2-lb. density, open-cell flat polyurethane foam provides excellent absorption over a broad frequency range. Not for use near open flame or sparks. Aluminized Mylar®-faced roll is impervious to water, dust, and oils, and is cleanable. Resistant to moisture and lubricants. Temp. range: -20° to 120°F.

Quilted Absorber Rolls—Face side is abrasion-resistant and impervious to water, dust, oils, grease, and most solvents. Rolls easily attach to walls or other surfaces. Temp. range: -30° to 250°F. No. 1VDL9 is used for most broadband noise problems, and No. 1VDP5 is for noise levels higher in low-frequency bands.

- Meet ASTM E84 Class I Fire Rating

L	W	Thickness	Color	NRC Rating	Item No.
Convoluted Foam Sheets, Pkg. of 4					
2¼ ft.	4½ ft.	1"	Gray	0.70	**5T492**
2¼ ft.	4½ ft.	2"	Gray	0.80	**5T493**
2¼ ft.	4½ ft.	3"	Gray	0.85	**5T494**
Flat K-Foam Roll					
10 ft.	4½ ft.	1"	Charcoal	0.55	**3TPU1**
Quilted Absorber Rolls					
25 ft.	4 ft.	1"	Gray	0.75	**1VDL9**
25 ft.	4 ft.	2"	Gray	0.80	**1VDP5**



NOTRAX MATS FOR PROFESSIONAL USE

Boot Scraper

Removes dirt, grass clippings, snow, and sand from the bottom and sides of your boots. Flexible rubber fingertips quickly remove debris before it is tracked into your facility. Bolt down for permanent installation or use as a mobile entrance mat.

W	L	Item No.
12"	15"	52ZX91



No. 6LUP2



No. 6LUL9

Condor

Rubber Entrance Mats

W	L	Item No.
Outdoor		
3 ft.	5 ft.	6LUP2
4 ft.	6 ft.	39R807
Rubber Fingertip		
2 ft.	2 ft. 8"	6LUL9
2 ft. 8"	3 ft. 3"	6LUN0
3 ft.	5 ft.	6LUN1
3 ft.	6 ft.	6LUN2



Charcoal



Burgundy

Condor

Outdoor Brush Matting

Made from coarse synthetic fibers and backed with heavy-duty vinyl. Suitable for medium-to-heavy traffic, can be used both indoors and outside. Provides super scraping action, keeping dirt and mud from entering facilities.

Color	W	L	Item No.
Charcoal	3 ft.	12 ft.	8XCJ0
Charcoal	3 ft.	20 ft.	8XCJ1
Burgundy	4 ft.	6 ft.	8DH32
Charcoal	4 ft.	12 ft.	8XDJ6



NOTRAX MATS FOR PROFESSIONAL USE

Oct-O-Flex™ Entrance Mats

Durable outdoor entrance mats have holes for drainage and heavy-duty beveled edges. Top surface removes snow, rain, and dirt from shoes. Raised knobbed underside reduces mat movement. Black color. ½" thick. Model #599.

W	L	Item No.
2 ft. 3"	3 ft.	6MRU6
3 ft.	5 ft.	6MRU7
4 ft.	6 ft.	6MRU8



AbilityOne PROGRAM

Indoor/Outdoor Entrance Mat

This brush mat has a stiff, coconut husk-based pile that is good for scraping debris from the bottom of shoes; vinyl backing. Created with pride by Americans who are blind or have significant disabilities.

Color	W	L	Item No.
Tan	18¾"	2 ft. 6"	5MM75



Charcoal
No. E1607

NOTRAX MATS FOR PROFESSIONAL USE

Indoor Carpet Entrance Runners

Ideal for handling medium traffic at large entrances in offices, office buildings, and hotels, this attractive, color-coordinated runner combines three functional mats into one design. The first zone features a looped, nonabsorbent yarn to scrape debris and moisture from foot traffic. The second zone combines looped scraper yarns with absorbent looped pile to begin the drying process. The third zone consists of looped pile to complete the drying function. Nonslip vinyl backing. Beveled edges minimize tripping.

▶CHOOSE: Color	W	L	Thickness	Item No.
Charcoal, Gray	3 ft.	12 ft.	⅜"	E1605
Charcoal, Gray	4 ft.	12 ft.	⅜"	E1607

Condor

Indoor Carpet Entrance Mats

Mats provide a long stretch of walkway for removing moisture, dirt, and grime from footwear, to reduce slip hazards and protect floors. Rubber-backed mats have double borders to keep moisture away from floors, and gripper backing to minimize movement. Vinyl-backed mats are slip-resistant.



Diamond
Brown
No. 8PR94



Waffle
Green
No. J1715



High-Low
Looped Pile
Burgundy
No. 24N185



Parquet
Blue
No. J1714



Waffle
Black
No. E5380

Medium- to Heavy-Traffic—Rubber mats have a molded scraper carpet surface and heavy-duty recycled rubber backing. 88% recycled materials. Vinyl-backed mats provide good scraping performance with needlepunch-constructed double-ribbed fiber.

Light- to Medium Traffic—Thick tufted cut-pile fiber captures dirt and retains moisture.



Cut Pile
Red/Black
No. G5801



Ribbed
Pepper
No. F1282

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Item No.
Medium- to Heavy-Traffic, Rubber-Backed					
Diamond					
Blue	Loop Pile	2 ft	3 ft	⅜ in	8LXJ1
Brown	Loop Pile	2 ft	3 ft	⅜ in	8YF48
	Needle Punch	2 ft	3 ft	⅜ in	6NTF1
Charcoal	Loop Pile	2 ft	3 ft	⅜ in	8DZK9
	Needle Punch	2 ft	3 ft	⅜ in	6NTG7
Blue	Loop Pile	3 ft	4 ft	⅜ in	6NTK8
Brown	Loop Pile	3 ft	4 ft	⅜ in	9UET5
Charcoal	Loop Pile	3 ft	4 ft	⅜ in	8LP30
	Needle Punch	3 ft	4 ft	⅜ in	26G847
Blue	Loop Pile	3 ft	5 ft	⅜ in	8DZA8
	Needle Punch	3 ft	5 ft	⅜ in	8DZ79
Brown	Loop Pile	3 ft	5 ft	⅜ in	8PR94
Charcoal	Loop Pile	3 ft	5 ft	⅜ in	9JY24
	Needle Punch	3 ft	5 ft	⅜ in	38ZA81
Green	Loop Pile	3 ft	5 ft	⅜ in	8DVG2
Charcoal	Loop Pile	3 ft	10 ft	⅜ in	9JFR7
	Needle Punch	3 ft	10 ft	⅜ in	9ENG1
Blue	Loop Pile	4 ft	6 ft	⅜ in	9K243
Brown	Loop Pile	4 ft	6 ft	⅜ in	6NTF4
	Needle Punch	4 ft	6 ft	⅜ in	9FPP4
Charcoal	Loop Pile	4 ft	6 ft	⅜ in	8DU18
	Needle Punch	4 ft	6 ft	⅜ in	38ZA82
	Needle Punch	4 ft	8 ft	⅜ in	26G849
	Loop Pile	4 ft	10 ft	⅜ in	8DWT9
	Needle Punch	6 ft	8 ft	⅜ in	26G850
	Needle Punch	6 ft	12 ft	⅜ in	26G851
Waffle					
Black, Blue, Brown, Burgundy, Green	Needle Punch	2 ft	3 ft	⅜ in	J1715
	Needle Punch	3 ft	4 ft	⅜ in	J1717
	Needle Punch	3 ft	5 ft	⅜ in	J1719
Red/Black	Loop Pile	3 ft	5 ft	⅜ in	9GFH9
Black	Needle Punch	3 ft	10 ft	⅜ in	36VJ99
Blue, Brown, Burgundy, Charcoal, Green	Needle Punch	4 ft	6 ft	⅜ in	J1720
Medium Blue	Loop Pile	4 ft	8 ft	⅜ in	8CZR5
Charcoal	Needle Punch	4 ft	10 ft	⅜ in	36VK03
Medium- to Heavy-Traffic, Vinyl-Backed					
Diamond					
Charcoal	Loop Pile	2 ft	3 ft	¼ in	24N130
Brown	Loop Pile	3 ft	4 ft	¼ in	24N204
Charcoal	Loop Pile	3 ft	4 ft	¼ in	24N131
Brown	Loop Pile	3 ft	5 ft	¼ in	24N205
Charcoal	Loop Pile	3 ft	5 ft	¼ in	24N132
Brown, Charcoal	Loop Pile	3 ft	8 ft	¼ in	G5784
Brown	Loop Pile	3 ft	10 ft	¼ in	24N207
Charcoal	Loop Pile	3 ft	10 ft	¼ in	24N135
	Loop Pile	3 ft	12 ft	¼ in	24N171
	Loop Pile	3 ft	20 ft	¼ in	24N137
Brown	Loop Pile	4 ft	6 ft	¼ in	24N211
Charcoal	Loop Pile	4 ft	6 ft	¼ in	24N138
Brown, Charcoal	Loop Pile	4 ft	8 ft	¼ in	G5790
Charcoal	Loop Pile	4 ft	10 ft	¼ in	24N140
Brown, Charcoal	Loop Pile	4 ft	12 ft	¼ in	G5792
Charcoal	Loop Pile	4 ft	16 ft	¼ in	24N142
	Loop Pile	4 ft	20 ft	¼ in	24N143
Brown	Loop Pile	6 ft	8 ft	¼ in	24N217
Charcoal	Loop Pile	6 ft	8 ft	¼ in	24N144
	Loop Pile	6 ft	12 ft	¼ in	24N145
	Loop Pile	6 ft	16 ft	¼ in	24N146
	Loop Pile	6 ft	20 ft	¼ in	24N147
High-Low Looped Pile					
Burgundy	Loop Pile	3 ft	4 ft	⅜ in	24N185
Light- to Medium-Traffic, Rubber-Backed					
Parquet					
Blue, Charcoal	Needle Punch	2 ft	3 ft	⅜ in	J1714
Brown	Needle Punch	2 ft	3 ft	⅜ in	34L258
Blue, Charcoal	Needle Punch	3 ft	5 ft	⅜ in	J1716
Brown	Needle Punch	3 ft	5 ft	⅜ in	34L259
Blue, Charcoal	Needle Punch	4 ft	6 ft	⅜ in	J1718
Brown	Needle Punch	4 ft	6 ft	⅜ in	34L260
Waffle					
Black, Brown	Needle Punch	2 ft	3 ft	⅜ in	E5379
Black, Blue, Brown	Needle Punch	3 ft	5 ft	⅜ in	E5380
Black	Needle Punch	4 ft	6 ft	⅜ in	8WC83
Blue, Brown	Needle Punch	4 ft	6 ft	⅜ in	E5381



Tufted
Gray
No. 4LLH5

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Item No.
Light- to Medium-Traffic, Vinyl-Backed					
Cut Pile					
Black, Brown	Cut Pile	2 ft	3 ft	⅜ in	H6180
Blue	Cut Pile	2 ft	3 ft	⅜ in	8D471
Charcoal	Cut Pile	2 ft	3 ft	⅜ in	24N257
Gray	Cut Pile	2 ft	3 ft	⅜ in	49Y276
Black, Brown	Cut Pile	3 ft	4 ft	⅜ in	H6181
Blue	Cut Pile	3 ft	4 ft	⅜ in	9T055
Navy	Cut Pile	3 ft	4 ft	⅜ in	24N267
Black	Cut Pile	3 ft	5 ft	⅜ in	49Y284
Blue, Red	Cut Pile	3 ft	5 ft	⅜ in	F1257
Brown, Charcoal, Navy, Red/Black	Cut Pile	3 ft	5 ft	⅜ in	G5801
Navy	Cut Pile	3 ft	6 ft	⅜ in	24N269
Gray	Cut Pile	3 ft	8 ft	⅜ in	24N279
Black	Cut Pile	3 ft	10 ft	⅜ in	49Y285
Blue, Charcoal	Cut Pile	3 ft	10 ft	⅜ in	F1258
Brown, Red/Black	Cut Pile	3 ft	10 ft	⅜ in	G5804
Red	Cut Pile	3 ft	10 ft	⅜ in	9RZZ9
Gray	Cut Pile	4 ft	3 ft	⅜ in	8X510
Black, Brown	Cut Pile	4 ft	6 ft	⅜ in	H6183
Burgundy	Cut Pile	4 ft	6 ft	⅜ in	8DH32
Navy	Cut Pile	4 ft	6 ft	⅜ in	24N272
Red	Cut Pile	4 ft	6 ft	⅜ in	8VYK6
Black, Brown	Cut Pile	4 ft	8 ft	⅜ in	H6185
Charcoal, Navy	Cut Pile	4 ft	8 ft	⅜ in	G5806
Ribbed					
Black, Blue, Brown	Needle Punch	2 ft	3 ft	⅜ in	F1284
Brown	Needle Punch	3 ft	4 ft	⅜ in	9MN29
Brown, Pepper	Needle Punch	3 ft	5 ft	⅜ in	F1280
Blue, Pepper	Needle Punch	3 ft	6 ft	⅜ in	F1281
	Needle Punch	3 ft	10 ft	⅜ in	H3535
Brown	Needle Punch	3 ft	10 ft	⅜ in	6PWF4
Blue, Brown, Green, Pepper, Red/Black	Needle Punch	4 ft	6 ft	⅜ in	F1282
Blue, Brown, Charcoal, Green, Red/Black	Needle Punch	4 ft	8 ft	⅜ in	F1283
Charcoal	Needle Punch	6 ft	60 ft	5/16 in	30CL93
Tufted					
Gray	Loop Pile	3 ft	5 ft	⅝ in	4LLH5
	Loop Pile	4 ft	6 ft	⅝ in	4LLH6



Indoor Carpet Entrance Mats

NOTRAX MATS FOR PROFESSIONAL USE

Combine mats for a complete, zoned entrance matting system that protects floors and reduces slip hazard by removing dirt, debris, and moisture from footwear. Rubber-backed mats have cleated backing to reduce mat movement, and molded beveled edging that creates a retention dam to trap moisture. Vinyl-backed mats reduce mat movement, and have beveled edges to help minimize tripping.

HEAVY-TRAFFIC

Barrier Rib™—Durable, antimicrobial, 26-oz. crush-resistant mat has a molded dual-ridge/cross-rib pattern and carpeted beveled edges for maximum scraping and debris. 3/8" thick. Model #161.

Arrow Trax™—Chevron design offers extreme functionality and attractiveness, providing nondirectional scraping and moisture retention. 38 oz. of needle-punched yarn per sq. yd. 3/8" thick. Model #118.

Estes™—High/low, dense-tufted 33-oz. berber provides excellent water retention. 3/8" thick. Model #132.

Uptown™—High/low, looped-pile, upscale carpet retains moisture with 40 oz. of tufted, crush-resistant Decalon® yarn per square yd. 3/8" thick. Model #138.

MEDIUM- TO HEAVY-TRAFFIC

Guzzler™—High/low, crushproof waffle design and rubber-edged perimeter provide superior water and soil control, with a low profile to fit under narrow clearances. 26 oz. of yarn per sq. yd. 3/8" thick. Model #166.

Portrait™—Tri-rib, high/low parquet design provides nondirectional scraping as traffic passes from all directions. Low profile is good for narrow-clearances. 26 oz. of yarn per sq. yd. 3/8" thick. Model #167.

Dante™—Densely tufted cut-pile Decalon® construction features 24 oz. of tufted yarn per square yard. 3/8" thick. Model #131.

Heritage Rib®—Heavier-weight, double-rib high/low design provides extra moisture retention and scraping action. 24 oz. of needle-punched yarn per sq. yd. 3/8" thick. Model #117.

LIGHT- TO MEDIUM-TRAFFIC

Sabre™—Cut-pile carpet mat offers good moisture and grime retention. 19 oz. of colorfast Decalon yarn affords functional service and easy cleanup. 5/16" thick. Model #130.

▶CHOOSE: Color	W	L	Thickness	Mfr. Model	Item No.
Heavy-Traffic, Rubber-Backed					
Barrier Rib™					
Charcoal	2 ft	3 ft	3/8 in	161	**25PN14**
Gray	2 ft	3 ft	3/8 in	161	**3UEZ3**
Charcoal	3 ft	4 ft	3/8 in	161	**25PN20**
Gray	3 ft	4 ft	3/8 in	161	**3UEZ5**
Brown, Charcoal, Gray, Red/Black, Slate Blue	3 ft	5 ft	3/8 in	161	**E4977**
Burgundy	3 ft	5 ft	3/8 in	161	**25PN23**
Charcoal, Gray	3 ft	10 ft	3/8 in	161	**E4978**
Brown, Charcoal, Red/Black, Slate Blue	4 ft	6 ft	3/8 in	161	**E4979**
Black, Blue	4 ft	10 ft	3/8 in	161	**E4980**
Gray	4 ft	10 ft	3/8 in	161	**5XZX0**
Red	6 ft	60 ft	3/8 in	161	**5XZW9**
Heavy-Traffic, Vinyl-Backed					
Arrow Trax™					
Black, Brown	2 ft	3 ft	3/8 in	118	**F1826**
Black	3 ft	4 ft	3/8 in	118	**9GK73**
Charcoal	3 ft	5 ft	3/8 in	118	**3H396**
Black	3 ft	6 ft	3/8 in	118	**8EEG7**
Charcoal	3 ft	8 ft	3/8 in	118	**45WL10**
	3 ft	10 ft	3/8 in	118	**5FX31**
Wine with Black Border	3 ft	10 ft	3/8 in	118	**5XZW7**
Charcoal	3 ft	12 ft	3/8 in	118	**45WL11**
	3 ft	16 ft	3/8 in	118	**45WL12**
	3 ft	20 ft	3/8 in	118	**45WL13**
Brown, Charcoal, Gray	4 ft	6 ft	3/8 in	118	**E7325**
Charcoal	4 ft	8 ft	3/8 in	118	**3H397**
Brown, Charcoal	4 ft	10 ft	3/8 in	118	**E7326**
Charcoal	4 ft	20 ft	3/8 in	118	**45WL14**
	6 ft	8 ft	3/8 in	118	**45WL15**
	6 ft	10 ft	3/8 in	118	**45WL16**
	6 ft	20 ft	3/8 in	118	**45WL17**
Wine with Black Border	6 ft	60 ft	3/8 in	118	**5XZW6**
Estes™					
Dark Gray	2 ft	3 ft	3/8 in	132	**3UFD1**
Navy	2 ft	3 ft	3/8 in	132	**40K303**
Dark Gray	3 ft	4 ft	3/8 in	132	**3UFD9**
Brown, Charcoal, Navy	3 ft	5 ft	3/8 in	132	**E9020**
Brown, Dark Gray	3 ft	6 ft	3/8 in	132	**E9021**
Navy	3 ft	6 ft	3/8 in	132	**40K308**
Red/Black	3 ft	6 ft	3/8 in	132	**40K309**
Brown, Charcoal, Navy	3 ft	10 ft	3/8 in	132	**D9158**
Red with Black Border	3 ft	10 ft	3/8 in	132	**5XZY8**
Brown, Charcoal, Navy	4 ft	6 ft	3/8 in	132	**E9022**
Gray	4 ft	8 ft	3/8 in	132	**3UFG9**
Navy	4 ft	8 ft	3/8 in	132	**40K311**
Charcoal	6 ft	60 ft	3/8 in	132	**40K298**
Red with Black Border	6 ft	60 ft	3/8 in	132	**5XZY7**
Uptown™					
Charcoal	2 ft	3 ft	3/8 in	138	**9KET8**
	3 ft	4 ft	3/8 in	138	**9GV63**
Brown, Charcoal, Navy	3 ft	5 ft	3/8 in	138	**D9153**
Charcoal	3 ft	6 ft	3/8 in	138	**9MUH8**
Brown, Charcoal, Navy	3 ft	10 ft	3/8 in	138	**D9155**
	4 ft	6 ft	3/8 in	138	**D9154**
Charcoal	4 ft	8 ft	3/8 in	138	**9N072**

▶CHOOSE: Color	W	L	Thickness	Mfr. Model	Item No.
Medium- to Heavy-Traffic, Rubber-Backed					
Guzzler™					
Charcoal	2 ft	3 ft	3/8 in	166	**25PN27**
	3 ft	4 ft	3/8 in	166	**25PN34**
Brown, Burgundy, Charcoal, Hunter Green	3 ft	5 ft	3/8 in	166	**D9166**
Charcoal	3 ft	10 ft	3/8 in	166	**25PN47**
Brown, Burgundy, Charcoal	4 ft	6 ft	3/8 in	166	**D9167**
Charcoal	4 ft	10 ft	3/8 in	166	**25PN54**
Portrait™					
Brown	2 ft	3 ft	3/8 in	167	**25PN59**
Charcoal	2 ft	3 ft	3/8 in	167	**25PN61**
Brown	3 ft	4 ft	3/8 in	167	**25PN65**
Blue, Brown, Burgundy, Charcoal	3 ft	5 ft	3/8 in	167	**D9164**
Blue, Brown, Burgundy, Charcoal, Hunter Green	4 ft	6 ft	3/8 in	167	**D9165**
Medium- to Heavy-Traffic, Vinyl-Backed					
Dante™					
Brown	3 ft	4 ft	3/8 in	131	**40K249**
Charcoal	3 ft	4 ft	3/8 in	131	**40K250**
Brown, Charcoal	3 ft	5 ft	3/8 in	131	**J5819**
Brown	3 ft	6 ft	3/8 in	131	**40K261**
Charcoal	3 ft	6 ft	3/8 in	131	**40K262**
Brown	3 ft	10 ft	3/8 in	131	**40K279**
Charcoal	3 ft	10 ft	3/8 in	131	**40K280**
Red with Black Border	3 ft	10 ft	3/8 in	131	**5XZY2**
Brown, Charcoal	4 ft	6 ft	3/8 in	131	**J5820**
Brown	4 ft	8 ft	3/8 in	131	**40K273**
Charcoal	4 ft	8 ft	3/8 in	131	**40K274**
Red with Black Border	6 ft	60 ft	3/8 in	131	**5XZY1**
Heritage Rib®					
Charcoal	3 ft	4 ft	3/8 in	117	**40K188**
Brown, Charcoal, Gray	3 ft	5 ft	3/8 in	117	**E9401**
Charcoal	3 ft	6 ft	3/8 in	117	**3UFK8**
Brown, Charcoal, Red/Black	3 ft	10 ft	3/8 in	117	**D9159**
Charcoal	3 ft	20 ft	3/8 in	117	**45WK97**
Brown, Charcoal, Gray	4 ft	6 ft	3/8 in	117	**E9403**
Brown	4 ft	10 ft	3/8 in	117	**45WL01**
Charcoal	4 ft	10 ft	3/8 in	117	**45WK99**
Brown	4 ft	20 ft	3/8 in	117	**45WL03**
Charcoal	4 ft	20 ft	3/8 in	117	**45WL02**
	4 ft	60 ft	3/8 in	117	**40K178**
	6 ft	60 ft	3/8 in	117	**40K183**
Red with Black Border	6 ft	60 ft	3/8 in	117	**5XZZ1**
Light- to Medium-Traffic, Vinyl-Backed					
Sabre™ Decalon®					
Charcoal	2 ft	3 ft	5/16 in	130	**3UFP5**
	3 ft	4 ft	5/16 in	130	**40K209**
Red/Black	3 ft	4 ft	5/16 in	130	**40K212**
Blue	3 ft	5 ft	5/16 in	130	**40K213**
Charcoal, Red/Black	3 ft	5 ft	5/16 in	130	**D9161**
Charcoal	3 ft	6 ft	5/16 in	130	**3UFT1**
	3 ft	10 ft	5/16 in	130	**40K220**
Red with Black Border	3 ft	10 ft	5/16 in	130	**5YAA7**
Burgundy	3 ft	60 ft	5/16 in	130	**8E558**
Blue	4 ft	6 ft	5/16 in	130	**40K215**
Charcoal, Dark Brown, Red/Black	4 ft	6 ft	5/16 in	130	**E9410**
Charcoal	4 ft	10 ft	5/16 in	130	**45WL26**
Blue	4 ft	60 ft	5/16 in	130	**40K195**
Red with Black Border	6 ft	60 ft	5/16 in	130	**5YAA6**

Wet-Area Antifatigue Matting

Condor

Rubber mats with drainage holes direct fluids away from foot traffic. They are lightweight and easy to handle and clean. Beveled edges on Lightweight mats help reduce tripping hazard. Heavy-Duty mats are oil- and grease-resistant for demanding environments. Models with Contrasting Border Color increase safety awareness.

Color	W	L	Thickness	Item No.
Lightweight				
Black	3 ft.	5 ft.	½"	6LUL1
	3 ft.	10 ft.	½"	6LUL2
	3 ft.	15 ft.	½"	6LUL3
Heavy-Duty				
Black	3 ft.	5 ft.	¾"	39R804
	3 ft.	10 ft.	¾"	39R805
Heavy-Duty with Colored Safety Borders				
Black with Yellow Border	2 ft. 4"	3 ft. 4"	⅞"	34L279
	3 ft. 4"	4 ft. 4"	⅞"	34L280
	3 ft. 4"	5 ft. 4"	⅞"	34L281
	3 ft. 4"	10 ft. 4"	⅞"	34L282
Black with Orange Border	2 ft. 4"	3 ft. 4"	⅞"	34L283
	3 ft. 4"	4 ft. 4"	⅞"	34L284
	3 ft. 4"	5 ft. 4"	⅞"	34L285
	3 ft. 4"	10 ft. 4"	⅞"	34L286



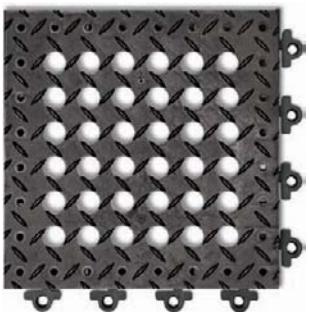
No. 6LUL1



No. 39R804



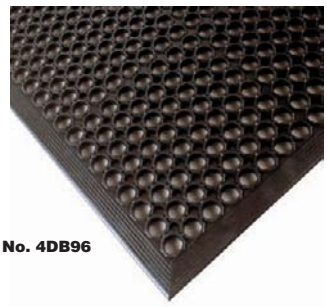
No. 34L279



No. 38N612



No. 38N630



No. 4DB96



No. 5FX67



No. 6Z507

TRAX MATS FOR PROFESSIONAL USE

Wet-Area Antifatigue Matting

Matting for harsh, wet work environments. Beveled edges minimize tripping.

PVC

PVC vinyl construction is resistant to industrial chemicals, cutting fluids, oils, and greases.

Diamond Flex-Lok™—High-performance floor drainage tiles and ramps combine durability with ergonomic support and comfort. 1" thick. Model #620.

NITRILE/PVC BLEND

Closed-cell foam blend is highly resistant to greases, oils, and animal and vegetable fats—great for areas with occasional overspray and dripping.

Superfoam® with Perforations—Lightweight, easy-to-handle comfort mat has drainage holes for liquid drainage and easy debris removal. ⅝" thick. Model #T17P.

RUBBER

Resilient, grease-resistant compound relieves leg and back discomfort and withstands harsh industrial chemicals and oils. Offers long service life.

Sanitop®—Raised perimeter around large drainage ports adds to ergonomic flex. Lightweight mats are easy to move for cleaning. ½" thick. Model #562.

Niru® Versa Runner™—Slip-resistant mats have large drainage slots. Knobbed traction provides extra safety, and a reversible ribbed underside extends service life. ⅜" thick. Model #755.

VINYL

Solid PVC vinyl is highly resistant to industrial chemicals and provides outstanding relief from fatigue.

Cushion-Lok™—Mat features permanently affixed safety yellow vinyl borders on three sides. Raised broken diamond design around drain ports facilitates drainage. Diamond design on ramp edges maximizes traction. ⅞" thick. Model #520.

Description	Color	W	L	Item No.
PVC				
Diamond Flex-Lok™				
Drainage Tiles, Pkg. 12	Black	1 ft.	1 ft.	38N612
Ramp, Male, Pkg. 6	Black	6"	12"	38N614
Corner, Pkg. 6	Black	6"	6"	38N617

Color	W	L	Item No.
Nitrile/PVC Blend			
Superfoam® with Perforations			
Black	2 ft.	3 ft.	38N630
	3 ft.	4 ft.	25PL43
Rubber			
Sanitop®			
Black	3 ft.	5 ft.	4DB96
	3 ft.	10 ft.	4DB98
Red	3 ft.	5 ft.	25PK74
Niru® Versa Runner™			
Black	2 ft.	3 ft.	5FX66
	3 ft.	5 ft.	5FX67
	3 ft.	12 ft.	5FX68
Vinyl			
Cushion-Lok™			
Black with Yellow Border	2 ft. 6"	3 ft.	6Z507
	2 ft. 6"	4 ft.	6Z508
	2 ft. 6"	5 ft.	6Z926



3/8" Light- to Medium-Traffic Dry-Area Antifatigue Matting

Condor

- Closed-cell vinyl foam
- Textured surface

Beveled edges help reduce slipping and tripping hazard with this comfortable, durable matting. Recommended for dry to moist environments. Offered in ribbed and pebble surface texture.

W	L	RIBBED SURFACE Color	RIBBED SURFACE Item No.	PEBBLE SURFACE Color	PEBBLE SURFACE Item No.
2 ft.	3 ft.	Black	39R808	Black	36VK71
3 ft.	5 ft.	Black	39R809	Black/Yellow	39R815
3 ft.	12 ft.	Black	36VK87	Black	36VK73
2 ft.	60 ft.	Black	8EF18	Black	36VK74
3 ft.	60 ft.	Black	8EC24	Black	36VK75
4 ft.	60 ft.	Black	8EAU2	Black	36VK76
3 ft.	60 ft.	Gray	36VK92	Gray	36VK82
4 ft.	60 ft.	Gray	36VK93	Black	9AUR4
3 ft.	5 ft.	Black/Yellow	36VK95	—	—
3 ft.	12 ft.	Black/Yellow	36VK96	Black/Yellow	39R816
2 ft.	60 ft.	Black/Yellow	36VK97	Gray	36VK81
3 ft.	60 ft.	Black/Yellow	36VK98	Black/Yellow	39R817
4 ft.	60 ft.	Black/Yellow	36VK99	Black/Yellow	36VK86
2 ft.	60 ft.	—	—	Black/Yellow	36VK85
6 ft.	60 ft.	—	—	Black	36VK77



1/2" Light- to Medium-Traffic Dry-Area Antifatigue Matting

Condor

- Closed-cell nitrile foam
- Diamond-plate texture

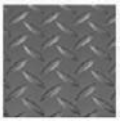
Wear-resistant, textured surface provides great traction. Beveled edges help reduce tripping hazard. Offers comfortable cushioning for dry to moist environments.

W	L	BLACK Item No.	BLACK/YELLOW Item No.
2 ft.	3 ft.	39R791	39R797
3 ft.	5 ft.	39R793	39R799
3 ft.	12 ft.	39R794	39R801
2 ft.	60 ft.	39R795	39R802
3 ft.	60 ft.	39R796	39R803
4 ft.	60 ft.	36VL01	36VL02





Black



Gray



Black/Yellow

Heavy-Traffic Diamond-Plate Dry-Area Antifatigue Matting

Condor

- Closed-cell vinyl foam
- Diamond-plate surface texture

Textured vinyl surface over foam provides comfortable underfoot cushioning, slip resistance, and durability. Beveled edges reduce tripping hazard. The surface resists most common fluids and chemicals, and is made of 100% recycled material.

W	L	Thickness	BLACK Item No.	BLACK/YELLOW Item No.	GRAY Item No.
2 ft.	3 ft.	9/16"	6ENJ1	6ENJ2	—
3 ft.	5 ft.	9/16"	6ENJ9	6ENK0	—
3 ft.	10 ft.	9/16"	34L227	34L229	—
2 ft.	75 ft.	9/16"	36VL03	36VL06	—
3 ft.	75 ft.	9/16"	36VL04	36VL07	—
4 ft.	75 ft.	9/16"	36VL05	36VL08	—
3 ft.	5 ft.	1"	6ENL2	6ENL3	—
3 ft.	10 ft.	1"	34L231	34L233	34L232
2 ft.	75 ft.	1"	36VL09	36VL12	36VL18
3 ft.	75 ft.	1"	36VL10	36VL13	36VL19
4 ft.	75 ft.	1"	36VL11	—	36VL20
4 ft.	75 ft.	1"	—	36VL14	—





Black



Blue



Gray

Heavy-Traffic Smooth Surface Dry-Area Antifatigue Matting

Condor

- Closed-cell vinyl foam bonded to vinyl surface
- Smooth surface texture

Hygienic composite matting provides extremely comfortable underfoot cushioning. Durable marbelized surface resists most common fluids and chemicals. Tripping hazard is reduced by the beveled edges.

W	L	Thickness	BLACK Item No.	BLUE Item No.	GRAY Item No.
2 ft.	3 ft.	1"	6FHF8	—	—
3 ft.	5 ft.	½"	6FHD0	6FHC9	6FHD2
3 ft.	5 ft.	1"	6FHG2	6FHG1	—
3 ft.	12 ft.	½"	36VK48	—	—
3 ft.	12 ft.	1"	—	—	36VK57
3 ft.	60 ft.	1"	36VK69	—	—
4 ft.	57 ft.	½"	36VK50	—	36VK56
4 ft.	57 ft.	1"	36VK70	36VK67	—
4 ft.	75 ft.	½"	—	36VK47	—

Color	W	L	Item No.
Diamond Plate Runner			
Black	3 ft.	75 ft.	53AD69
Black with Yellow Border	3 ft.	75 ft.	53AD70
Diamond Poly Max			
Black	3 ft.	4 ft.	53AC68
	3 ft.	16 ft.	53AD26
Black with Yellow Border	2 ft.	3 ft.	53AC66
	2 ft.	6 ft.	53AC73
	3 ft.	4 ft.	53AC81
	3 ft.	5 ft.	53AC83
	3 ft.	6 ft.	53AC85
	3 ft.	10 ft.	53AD15
	4 ft.	6 ft.	53AC97
	4 ft.	8 ft.	53AD01
	4 ft.	10 ft.	53AD43
Ergo Trax			
Black	3 ft.	3 ft.	52ZY36
	3 ft.	10 ft.	52ZY72
	4 ft.	75 ft.	52ZY23
Black with Yellow Border	2 ft.	6 ft.	52ZY31
	2 ft.	12 ft.	52ZY63
	3 ft.	5 ft.	52ZY42
	3 ft.	10 ft.	52ZY73
	3 ft.	12 ft.	52ZY77
	3 ft.	15 ft.	52ZY82
	3 ft.	20 ft.	52ZY89
	3 ft.	40 ft.	52ZY96
	3 ft.	75 ft.	52ZY21
	5 ft.	5 ft.	52ZY58
Ergo Trax Grande			
Black	3 ft.	3 ft.	53AD96
	3 ft.	75 ft.	53AD80
Black with Yellow Border	2 ft.	3 ft.	53AD84
	2 ft.	5 ft.	53AD88
	2 ft.	75 ft.	53AD79
	3 ft.	75 ft.	53AD81
Grit Trax			
Black	2 ft.	3 ft.	52ZZ09
	3 ft.	5 ft.	52ZZ10
	3 ft.	20 ft.	52ZZ11

TRAX® MATS FOR PROFESSIONAL USE

Dry-Area Antifatigue Matting

Diamond-Plate Runner—Diamond-embossed top surface and 100% recycled vinyl compound offer nondirectional traction. Low profile allows for easy on/off cart traffic. ½" thick. Model #737.

Diamond Poly Max—Economical mat features heavy-duty PVC top surface bonded to 1" sponge backing to relieve leg and back discomfort. Durable diamond surface is easy to clean. 1" thick. Model #519.

Ergo Trax®—Durable PVC diamond-plate surface is bonded to a rubber sponge backing to provide antifatigue properties. 9/16" thick. Model #485.

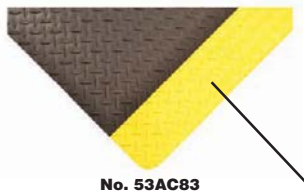
Ergo Trax® Grande—Durable PVC diamond-plate surface is bonded to a rubber sponge backing to provide antifatigue properties. 1" thick. Model #985.

Grit Trax™—Has the same quality features as Ergo Trax®, but with a grit surface that provides excellent slip protection in addition to antifatigue properties. 9/16" thick. Model #486.



Low-profile design allows for easy on/off cart traffic

No. 53AD69



No. 53AC83



Beveled edges help prevent tripping

Nos. 52ZY36 and 53AD80



No. 52ZZ09

Color	W	L	Item No.
Light-Traffic Vinyl			
Airug®			
Black	2 ft.	3 ft.	4DE12
	2 ft.	60 ft.	5Z179
	3 ft.	5 ft.	4DE14
	3 ft.	12 ft.	3U018
	3 ft.	60 ft.	5Z056
	4 ft.	60 ft.	5FX44
Black with Yellow Border	3 ft.	30 ft.	4LNJ1
Pebble Step Sof-Tred™			
Black with Yellow Border	2 ft.	3 ft.	5W712
	3 ft.	5 ft.	5W713
	3 ft.	12 ft.	5W714
	3 ft.	60 ft.	5Z275
Diamond Sof-Tred™			
Black	2 ft.	60 ft.	8VMH0
	3 ft.	5 ft.	5FX48
	3 ft.	12 ft.	5FX51
	3 ft.	60 ft.	5FX46
Black with Yellow Border	2 ft.	8 ft.	1LYZ1
	3 ft.	5 ft.	3BY50
	3 ft.	9 ft.	1LYZ2
	3 ft.	12 ft.	3BY51
	3 ft.	20 ft.	5HA66
	3 ft.	60 ft.	3BY52
Bubble Sof-Tred™			
Black with Yellow Border	2 ft.	3 ft.	6PY94
	3 ft.	5 ft.	6PY95
	3 ft.	12 ft.	6PY96
	3 ft.	60 ft.	6PY97
Medium-Traffic Rubber			
Comfort-Eze™			
Black	2 ft.	3 ft.	5W616
	2 ft. 6"	5 ft.	5W617
	2 ft. 6"	10 ft.	5FX52
Medium-Traffic PVC Nitrile Blend			
Superfoam®			
Black	2 ft.	3 ft.	3UFC1
	3 ft.	5 ft.	414W57
	3 ft.	5 ft.	3UFC3

TRAX® MATS FOR PROFESSIONAL USE

Light- to Medium-Traffic Dry-Area Antifatigue Matting

LIGHT-TRAFFIC VINYL

Dense, closed-cell vinyl sponge construction offers exceptional comfort, helping to relieve back and leg strain. Easy to clean. Beveled edges on all 4 sides of mat minimize tripping.

Airug®—Low-profile corrugated top surface provides directional traction. Offers basic fatigue relief and floor protection. 3/8" thick, except No. 4LNJ1 is 5/8" thick. Model #410.

Pebble Step Sof-Tred™—Pebble-embossed, nondirectional top surface is enhanced with abrasion-resistant Dyna-Shield® protective barrier to extend service life. 3/8" thick. Model #415.

Diamond Sof-Tred™—Exclusive Dyna-Shield-enhanced top surface resists abrasion. Diamond pattern for extra traction. ½" thick. Model #419.

Bubble Sof-Tred™—Bubble-top pattern enhances traction and is easy to clean. Dyna-Shield top surface maximizes service life. ½" thick. Model #417.

MEDIUM-TRAFFIC RUBBER

Comfort-Eze™—Solid rubber construction is remarkably long-lasting. Raised bubble design on top and bottom facilitates comfortable movement and allows increased airiflow, boosting the ergonomic effect. Beveled edges minimize tripping. 3/8" thick. Model #447.

MEDIUM-TRAFFIC NITRILE/PVC BLEND

Superfoam®—Lightweight, textured, closed-cell PVC nitrile foam resists grease, oil, and animal and vegetable fat. Black color. 5/8" thick. Model #T17.



No. 5Z056



No. 5W712



No. 1LYZ2



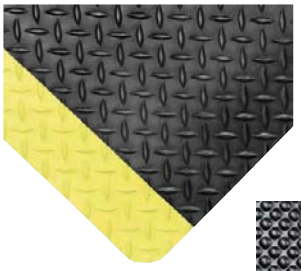
No. 6PY94



No. 5W616



No. 3UFC1



Nos. 5MDL1 and 5MDL4



No. 38N587



No. 5MDL6



No. 5MDN0



No. 30RJ54



No. 5MDK0



No. 9Y891

TRAX MATS FOR PROFESSIONAL USE

Heavy-Traffic Dry-Area Antifatigue Matting

Long-wearing top surface is fused to a sponge base using the exclusive UniFusion™ bonding process, which creates a virtually unbreakable bond. Red Stop™ backing eliminates mat movement without any tacky or sticky residue. Mats provide higher fatigue relief in the harshest dry work environments. All four sides feature a beveled edge to minimize tripping.

VINYL

Vinyl top surfaces are made with 100% recycled materials, are long wearing, and hold up to mild chemicals.

Cushion Trax®—Diamond deck-plate top surface helps protect against slips and falls. 9/16" thick. Model #479.

Cushion Trax® Ultra™—Ultra has the same quality as Cushion Trax. Mats are are thicker to provide additional support. ¾" thick. Model #975.

Saddle Trax™—With the same features as Cushion Trax mats, but also thicker to provide a greater level of support. 1" thick. Model #979.

Bubble Trax™—High-performance floor mat has a bubble-top surface design that provides ergonomic comfort and durability. ¾" thick. Model #482.

RUBBER

Rubber top surfaces are durable and provide ultimate traction.

Ergo Mat™—High-profile, corrugated-rubber top surface helps protect against slips and falls. This design provides extra comfort, channels away any incidental spillage, and facilitates repetitive, pivotal movement. ½" thick. Model #474.

Pebble Trax®—Deep pebble-embossed rubber top surface provides sure footing. Resists incidental damage from welding sparks and solders. ½" thick. Model #480.

Dura Trax™—Diamond deck-plate top surface bonded to a dense sponge backing provides comfort and durability. Holds up to welding sparks and solders. 9/16" thick. Model #490.

- **NFSI Certified**

DuraTrax Ultra™ and Dura Trax Grande™—Thicker versions of DuraTrax have the same quality features plus additional support. Ultra is ¾" thick. Model #976. Grande is 1" thick. Model #990.

Marble Sof-Tyle™—A smooth rubber antimicrobial top surface embedded with a marbleized pattern offers an attractive appearance and a durable surface. ½" thick. Model #470.

Ergo Mat™ Grande™—Rubber corrugated ribbed top surface provides directional traction to reduce slips, and offers superior antifatigue support. Nonslip backing eliminates the slipping and sliding of floor mats on smooth surface flooring. 1" thick. Model #974.

Marble Sof-Tyle™ Grande™—Has the same quality features as Marble Sof-Tyle mats and is thicker to provide additional support. 1" thick. Model #970.

Color	W	L	Item No.
Vinyl			
Cushion Trax®			
Black with Yellow Border	2 ft.	3 ft.	5MDL0
	3 ft.	5 ft.	5MDL1
	3 ft.	9 ft.	1LYZ4
	3 ft.	12 ft.	5MDL2
	3 ft.	60 ft.	5FX59
Cushion Trax® Ultra™			
Black	2 ft.	3 ft.	5MDC8
	3 ft.	5 ft.	5MDD0
	3 ft.	12 ft.	5MDD2
	3 ft.	75 ft.	5MDD4
	4 ft.	75 ft.	5MDD6
Black with Yellow Border	2 ft.	3 ft.	5MDC9
	3 ft.	5 ft.	5MDD1
	3 ft.	12 ft.	5MDD3
	3 ft.	75 ft.	5MDD5
	4 ft.	75 ft.	5MDD7
Saddle Trax™			
Black with Yellow Border	3 ft.	5 ft.	5MDL4
	3 ft.	12 ft.	5MDL5
Bubble Trax™			
Black	2 ft.	3 ft.	38N587
	3 ft.	5 ft.	38N590
	3 ft.	12 ft.	38N593
Gray	2 ft.	3 ft.	38N588
Black with Yellow Border	2 ft.	3 ft.	38N589
	3 ft.	5 ft.	38N592
	3 ft.	12 ft.	38N595
Rubber			
Ergo Mat™			
Black	2 ft.	3 ft.	5MDL6
	3 ft.	5 ft.	5MDL7
	3 ft.	12 ft.	5MDL8
Pebble Trax®			
Black	2 ft.	3 ft.	5MDL9
	3 ft.	5 ft.	5MDN0

Color	W	L	Item No.
Dura Trax™			
Black	2 ft.	3 ft.	30RJ48
	3 ft.	5 ft.	30RJ49
	4 ft.	75 ft.	30RJ52
Black with Yellow Border	2 ft.	3 ft.	30RJ53
	2 ft.	75 ft.	30RJ55
	3 ft.	5 ft.	30RJ54
	3 ft.	75 ft.	30RJ56
Dura Trax Ultra™			
Black	3 ft.	5 ft.	5MDE0
	3 ft.	12 ft.	5MDE2
	3 ft.	75 ft.	5MDE4
Black with Yellow Border	3 ft.	5 ft.	5MDE1
	3 ft.	12 ft.	5MDE3
	3 ft.	75 ft.	5MDE5
	4 ft.	75 ft.	5MDE7
Dura Trax Grande™			
Black	3 ft.	5 ft.	30RJ59
Black with Yellow Border	3 ft.	5 ft.	30RJ64
Marble Sof-Tyle™			
Black	2 ft.	3 ft.	5MDJ8
	3 ft.	5 ft.	5MDK0
	3 ft.	12 ft.	5MDK2
Blue	2 ft.	3 ft.	5MDJ9
	3 ft.	5 ft.	5MDK1
	3 ft.	12 ft.	5MDK3
Ergo Mat™ Grande™			
Black	2 ft.	3 ft.	9YHK3
	2 ft.	75 ft.	9Y891
	3 ft.	5 ft.	9Y975
	3 ft.	12 ft.	9YEY4
	4 ft.	6 ft.	9YK76
Marble Sof-Tyle™ Grande™			
Black	2 ft.	3 ft.	5MDK4
	3 ft.	5 ft.	5MDK6
	3 ft.	12 ft.	5MDK8
Blue	2 ft.	3 ft.	5MDK5
	3 ft.	5 ft.	5MDK7
	3 ft.	12 ft.	5MDK9

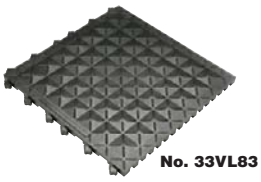
Interlocking Antifatigue Mats

- 1" thick

100% recycled PVC matting helps reduce fatigue with an underside structure that distributes weight evenly, and an uneven top surface that encourages sway to help improve blood flow. Modular sections quickly snap together and can be configured and reconfigured to fit just about any space. Use drainage mats in wet areas. Mat Edging can be used with all mats.

Color	Mat Section	W	L	Mfr. Model	Item No.	Pkg. Qty.	
Antifatigue Mats							
Dome							
Black	Center Section	1 ft. 6"	1 ft. 6"	A1B	**33VL83**	10	
White	Center Section	1 ft. 6"	1 ft. 6"	A1-W	**33VL98**	10	
Black	Straight Edge	1 ft. 6"	1 ft. 6"	ESDA1-B	**33VM05**	10	*
Grit							
Black	Straight Edge	1 ft. 6"	1 ft. 6"	AG1	**33VL82**	10	
Smooth							
Black	Center Section	1 ft. 6"	1 ft. 6"	A1-SMB	**48ZU31**	10	
Antifatigue Drainage Mats							
Dome							
Black	Center Section	1 ft. 6"	1 ft. 6"	A2B	**33VL84**	10	
Grit							
Black	Straight Edge	1 ft. 6"	1 ft. 6"	AG2	**33VL85**	10	
Mat Edging							
Dome							
Black	Corner Edge	4 ft.	1 ft. 10"	A5-B	**33VM02**	2	
Black	Corner Edge	4 ft.	1 ft. 10"	A6-B	**33VM03**	2	
Yellow	Corner Edge	4 ft.	1 ft. 10"	A5-Y	**33VL88**	2	
Yellow	Corner Edge	4 ft.	1 ft. 10"	A6-Y	**33VL89**	2	
Black	Straight Edge	4 ft.	1 ft. 6"	A3-B	**33VL99**	10	
Black	Straight Edge	4 ft.	1 ft. 6"	A4-B	**33VM01**	10	
Yellow	Straight Edge	4 ft.	1 ft. 6"	A3-Y	**33VL86**	10	
Yellow	Straight Edge	4 ft.	1 ft. 6"	A4-Y	**33VL87**	10	
Grit							
Black	Corner Edge	4 ft.	1 ft. 10"	AG5-B	**33VL92**	2	
Black	Corner Edge	4 ft.	1 ft. 10"	AG6-B	**33VL93**	2	
Yellow	Corner Edge	4 ft.	1 ft. 10"	AG5-Y	**33VL96**	2	
Yellow	Corner Edge	4 ft.	1 ft. 10"	AG6-Y	**33VL97**	2	
Black	Straight Edge	4 ft.	1 ft. 6"	AG3-B	**33VL90**	10	
Black	Straight Edge	4 ft.	1 ft. 6"	AG4-B	**33VL91**	10	
Yellow	Straight Edge	4 ft.	1 ft. 6"	AG3-Y	**33VL94**	10	
Yellow	Straight Edge	4 ft.	1 ft. 6"	AG4-Y	**33VL95**	10	

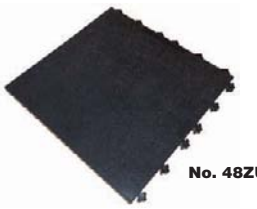
**** Electrically conductive.***


No. 33VL83


No. 33VL98


No. 33VM05


No. 33VL82


No. 48ZU31


No. 33VL84


No. 33VM02


No. 33VL86


No. 33VL92


No. 33VL95

TRAX MATS FOR PROFESSIONAL USE

Interlocking Antifatigue Mats

Snap-together units can be assembled in a variety of configurations to suit your needs. Use drainage mats in wet areas; use solid-top mats in dry areas.

CUSHION-EASE®

Mats interlock on all four sides and are easily reconfigured. Beveled ramps (sold separately) are made from 100% nitrile and are grease-resistant.

Standard—Mats are made from SBR rubber for excellent fatigue relief. No. 6MRU5 has a bubble top for extra comfort.

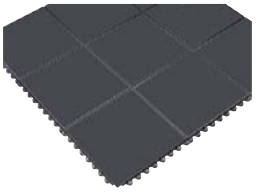
Niru® GSII™—Mat is molded from a 100% nitrile rubber compound. A silicon carbide grit surface provides abrasion resistance and slip protection.

DIAMOND TOP INTERLOCK™

Solid rubber top surface has a diamond deck-plate pattern. Molded air pockets on the bottom offer traction and buoyancy. Available as a single mat, or as interlocking sections to create a longer-length matting system. For use in dry environments.

Description	Color	W	L	Thickness	Mfr. Model	Item No.
Cushion-Ease®						
Standard						
Drainage	Black	3 ft.	3 ft.	¾"	550	**3LY63**
Drainage	Black	3 ft.	5 ft.	¾"	550	**3LY64**
Solid-Top	Black	3 ft.	3 ft.	¾"	556	**3LY65**
Solid-Bubble Top	Black	3 ft.	3 ft.	¾"	557	**6MRU5**
Niru® GSII™						
Drainage w/Grit Top Surface	Black	3 ft.	3 ft.	¾"	850	**2VJ47**
Ramps for Standard and Niru® Mats						
Ramp, Female	Black	2"	3 ft.	⅜"	551	**3LY66**
Ramp, Male	Black	2"	3 ft.	⅜"	551	**3LY67**
Ramp, Female	Black	2"	5 ft.	⅜"	551	**3LY68**
Ramp, Male	Black	2"	5 ft.	⅜"	551	**3LY69**
Ramp, Female	Yellow	2"	3 ft.	⅜"	551	**3UEP7**
Ramp, Male	Yellow	2"	3 ft.	¾"	551	**3UEP5**
Ramp, Female	Yellow	2"	5 ft.	¾"	551	**3UER2**
Ramp, Male	Yellow	2"	5 ft.	¾"	551	**3UEP9**
Diamond Top Interlock™						
Solid-Top, Single Mat	Black	2 ft. 4"	2 ft. 7"	½"	545	**5W780**
Solid-Top, Single Mat	Black	3 ft.	2 ft. 7"	½"	545	**3UM41**
Solid-Top, Interlocking End Section	Black	2 ft. 4"	2 ft. 7"	½"	545	**5W779**
Solid-Top, Interlocking Center Section	Black	2 ft. 4"	2 ft. 7"	½"	545	**5W778**
Solid-Top, Interlocking End Section	Black	3 ft.	2 ft. 7"	½"	545	**3UM39**
Solid-Top, Interlocking Center Section	Black	3 ft.	2 ft. 7"	½"	545	**3UM40**


No. 3LY63


No. 3LY65


No. 6MRU5


No. 3LY66


No. 3LY67


No. 3UM41

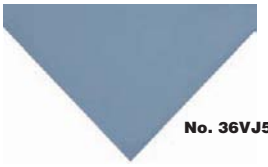

No. 5W779


No. 5W778


No. 3BY56


No. 5T434


No. 5MDN2


No. 36VJ53

Nonconductive and Antistatic Matting

NONCONDUCTIVE

Vinyl compound insulates worker, preventing electrical shock. Each square foot of matting is tested in conformance with ANSI/ASTM D-178-01 Specifications. Recommended max. usage is 17,000V, Class 2 dielectric strength of 30,000V.

Diamond-Plate Switchboard— Diamond deck plate pattern top surface provides optimum traction and is easy to sweep clean. Yellow borders promote safety awareness. 3/16" thick. Model #831.

Switchboard—High-profile corrugated top surfaces enhance traction. Rib design facilitates repetitive pivotal movement. 1/4" thick. Model #830.

ANTISTATIC

Engineered to absorb and retain static electricity, these mats are essential for safeguarding sensitive equipment. All four sides are beveled to minimize tripping.

Diamond Stat™—Diamond-deck-plate vinyl top surface is uniwelded to vinyl sponge base to provide maximum fatigue relief. Red Stop backing stops mat movement without any tacky or sticky residue. Attached grounding cord for extra protection. 9/16" thick. Model #826.

Military Switchboard—Durable, fire-retardant, and electrically insulating floor mats are approved for use in military applications. Made of a nonconductive vinyl compound designed to provide insulation that prevents the worker from being grounded, thereby eliminating the possibility of electrical shock. Meets MIL-DTL 15562G Specification. Model #835.

Color	W	L	Mfr. Model	Item No.
Nonconductive				
Diamond Plate Switchboard				
Black with Yellow Border	3 ft.	5 ft.	831	**6RA10**
Black with Yellow Border	3 ft.	12 ft.	831	**3BY56**
Black with Yellow Border	3 ft.	75 ft.	831	**3BY57**
Switchboard				
Black	3 ft.	5 ft.	830	**6PY99**
Black	3 ft.	12 ft.	830	**5T434**
Black	3 ft.	75 ft.	830	**5T435**
Antistatic				
Diamond Stat™				
Black	2 ft.	3 ft.	826	**5MDN2**
Black	3 ft.	5 ft.	826	**5MDN3**
Black	3 ft.	12 ft.	826	**5MDN4**
Military Switchboard				
Black	3 ft.	75 ft.	835	**36VJ52**
Blue	3 ft.	75 ft.	835	**36VJ53**



Rubber Diamond-Plate Mats

High-performance, antifatigue floor mats each combine a rubber top surface with a dense sponge backing for comfort and durability in industrial environments. The rubber top layer offers a soft and comfortable work surface. The diamond-plate design offers enhanced slip resistance and is easy to sweep or mop clean. Safe for use in welding applications. Rubber Diamond Mats are 9/16" thick, Diamond-Plate Plus are 1" thick.

Color	W	L	Item No.
Rubber Diamond Plate			
Black	2 ft.	3 ft.	**3VFR4**
	3 ft.	5 ft.	**3VFR8**
	3 ft.	12 ft.	**3VFT3**
	4 ft.	6 ft.	**3VFT7**
Black with Yellow Border	2 ft.	3 ft.	**3VFR6**
	3 ft.	5 ft.	**3VFT1**
	3 ft.	12 ft.	**3VFT5**
	4 ft.	6 ft.	**3VFT9**

Color	W	L	Item No.
Rubber Diamond Plate Plus			
Black	2 ft.	3 ft.	**3VFU2**
	3 ft.	5 ft.	**3VFU6**
	3 ft.	12 ft.	**3VFX6**
	4 ft.	6 ft.	**3VFY1**
Black with Yellow Border	2 ft.	10 ft.	**3VFU4**
	3 ft.	5 ft.	**3VFU8**
	3 ft.	12 ft.	**3VFX8**
	4 ft.	6 ft.	**3VFY3**


No. 8RVX6


No. 8V572

Drainage Runners and Work Station Mats

100% nitrile rubber compound provides a high degree of resistance to many industrial chemicals, greases, oils, and animal fats. Low-profile design allows carts to roll over the matting with ease. The ribbed underside adds comfort and channels liquids away from the work area, making mats suitable for industrial and food service applications. Antimicrobial matting inhibits the growth of bacteria and fungi. 3/8" thick. Drainage runners create a slip-resistant work surface. Work station mats are designed for safety and traction.

W	L	Item No.
Drainage Runners		
3 ft.	2 ft.	**3LLZ8**
3 ft.	20 ft.	**8RVX6**
4 ft.	6 ft.	**8YKH5**
4 ft.	8 ft.	**8TU81**
4 ft.	12 ft.	**8TU82**

W	L	Item No.
Work Station Mats		
3 ft.	8 ft.	**3LLZ7**
3 ft.	16 ft.	**8TU79**
3 ft.	20 ft.	**9ALC2**
4 ft.	8 ft.	**9CXA3**
4 ft.	16 ft.	**8TU80**
4 ft.	20 ft.	**8V572**


No. 3LMD2

Reversible Rubber Mats

Antifatigue workstation mats feature static-dissipative properties. Lightweight design allows the mats to be moved routinely for cleaning. Reversible for longer life. Drainage system facilitates the removal of liquids and debris from work areas, while molded-in beveled edges reduce trip hazards when stepping on and off of the mats. Aggressive textured top surface design provides additional traction in wet or greasy areas.

W	L	Item No.
2 ft.	3 ft.	**3LMD2**
3 ft.	5 ft.	**3LMD1**
4 ft.	6 ft.	**3LMD4**



Condor

Disposable Cleanroom Mats

Static-dissipative tacky mats capture dirt and dust to control contamination in sensitive assembly and maintenance operations. Adhesive acrylic backing holds the mats in place. Each mat contains 30 sheets; remove top sheet as it gets dirty.

W	L	Pkg. Qty.	WHITE Item No.	BLUE Item No.
1 ft. 6"	3 ft.	4	31AN11	31AN12
1 ft. 6"	3 ft. 9"	4	31AN13	31AN14
2 ft.	3 ft.	4	31AN15	31AN16
2 ft.	3 ft. 9"	4	31AN17	31AN18
3 ft.	3 ft. 9"	4	31AN19	31AN20
3 ft.	5 ft.	4	31AN21	31AN22





SANI-TRAX MATS FOR PROFESSIONAL USE

Sani-Trax® Plus Mats

Entrance disinfectant mats clean and sanitize shoes at entrances to sensitive areas such as food processing plants or laboratories. Thick rubber borders allow the mats to hold disinfectant solution and immerse the soles of shoes as foot traffic passes. Flexible fingers bend to immerse soles, while also providing automatic scrubbing action to dislodge contaminants from footwear. Mats resist most chemicals and variations in temperature. Suction cups on the underside of the mats keep them in place. Model #351.

Color	W	L	Item No.
Black	2 ft.	2 ft. 8"	52ZX89
	3 ft. 3"	2 ft. 8"	52ZX90
Black with Yellow Border	2 ft. 8"	3 ft. 3"	30CL75



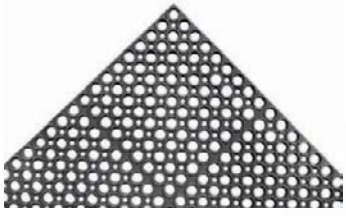
Condor

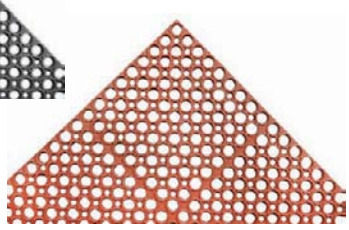
High-Tack Mats and Bases

Remove dust, dirt, and bacteria from shoes, casters, and wheels. Adhesive vinyl backing prevents shifting and allows mats to be removed without leaving residue. Each mat contains 30 disposable sheets that hold particulate matter on contact. Sheets are numbered to help identify remaining quantity. Can be used with optional bases or directly on smooth, clean floors.

▶CHOOSE: Color	W	L	Item No.	Pkg. Qty.
High-Tack Mats				
Blue, Clear, Gray, White, Yellow	1 ft. 6"	3 ft.	D3947	4
	1 ft. 6"	3 ft. 9"	D3948	4
	2 ft.	2 ft. 6"	D3949	4
	2 ft.	3 ft.	D3951	4
	2 ft.	3 ft. 9"	D3952	4
	2 ft. 2"	3 ft. 9"	D3953	4
	3 ft.	3 ft.	D3954	4
	3 ft.	3 ft. 9"	D3955	4
	3 ft.	5 ft.	D3956	4

▶CHOOSE: Color	W	L	Item No.	Pkg. Qty.
Mat Bases				
Blue, Gray, White	1 ft. 8"	3 ft. 2"	D3957	1
	1 ft. 8"	3 ft. 11"	D3958	1
	2 ft. 2"	2 ft. 8"	D3959	1
	2 ft. 2"	3 ft. 2"	D3961	1
	2 ft. 2"	3 ft. 11"	D3962	1
	2 ft. 4"	3 ft. 11"	D3963	1
	3 ft. 2"	3 ft. 2"	D3964	1
	3 ft. 2"	3 ft. 11"	D3965	1
	3 ft. 2"	5 ft. 2"	D3966	1





TRAX MATS FOR PROFESSIONAL USE

Tek-Tough® Drainage Mats

- 7/8" thick

Mats each have a series of holes with raised edges that provide traction and slip-resistance in wet and greasy areas while removing liquid and debris from footwear. They also help to reduce fatigue from standing for long periods of time. Red mats are made with 100% heavy-duty nitrile rubber compounds that resist grease and oil.

Description	Color	W	L	Item No.
General Purpose Rubber	Black	3 ft.	5 ft.	25PL39
Heavy-Duty 100% Nitrile Rubber	Red	3 ft.	5 ft.	25PL40



Industrial Antislip Nosings, Rung Covers, and Decks

Maintenance-free, easy-to-install products are engineered for industrial environments, offering maximum antislip properties and long service life. They feature steel construction with silicon carbide aggregate. Safety yellow color for visibility.

Stair Nosings—Grit-coated nosings reprofile the leading edge of stairs, increase the shoe contact area, and guard against slip hazards from weather or fluid spills.

Ladder Rung Covers—Epoxy-finish, grit-coated covers help reduce slipping risk by increasing friction and providing a larger surface for foot contact.

Metal Decks—Grit-coated deck plates provide traction and slip protection on metal grates or smooth concrete floors.

W	D	Item No.
Stair Nosings		
17 11/16"	3 1/8"	**34JG66**
23 5/8"	3 1/8"	**34JG67**
29 1/2"	3 1/8"	**34JG68**
35 7/16"	3 1/8"	**34JG69**
17 11/16"	5 1/8"	**34JG70**
23 5/8"	5 1/8"	**34JG71**
29 1/2"	5 1/8"	**34JG72**
35 7/16"	7"	**34JG73**
17 11/16"	7"	**34JG74**
23 5/8"	7"	**34JG75**
29 1/2"	7"	**34JG76**
35 7/16"	7"	**34JG77**
17 11/16"	8 2/3"	**34JG78**
23 5/8"	8 2/3"	**34JG79**
29 1/2"	8 2/3"	**34JG80**
35 7/16"	8 2/3"	**34JG81**
47 1/4"	8 2/3"	**34JG82**

Overall L	Overall W	Item No.
Square Ladder Rung Covers		
11 13/16"	5 1/64"	**34JG83**
11 13/16"	1"	**34JG84**
Overall L	**Overall Dia.**	**Item No.**
Round Ladder Rung Covers		
7 7/8"	5 1/64"	**34JG85**
11 13/16"	5 1/64"	**34JG86**
17 11/16"	5 1/64"	**34JG87**
11 13/16"	1"	**34JG88**
17 11/16"	1"	**34JG89**
L	**W**	**Item No.**
Metal Decks		
17 2/3"	7 57/64"	**34JG91**
23 3/8"	7 57/64"	**34JG92**
29 1/2"	7 57/64"	**34JG93**
35 7/16"	7 57/64"	**34JG94**
47 1/4"	7 57/64"	**34JG95**

Description	Item No.
Installation Fasteners	
Saddle Assembly	**34JG96**
TEK Screw, Self Drilling, #12 Thread Size	**34JG97**
Concrete Anchor Screw	**34JG98**
Adhesive Sealant, 10.1 oz. Size	**34JG99**



No. 2TVA7



No. 2TVD6



No. 2TVC6

Stair Tread Covers and Stair Nosings

For indoor or outdoor use.

Stair Tread Covers—Help provide traction and feature tapered back and beveled edges for additional safety. Predrilled holes offer easy installation on most step surfaces.

- Meet ASTM and ADA Standards, except Nos. 20X803 to 20X805

Stair Nosings—Black, extruded aluminum nosings are suitable for heavy foot traffic. Silver, cast-aluminum nosings are suitable for extreme foot traffic.

Description	D	Thickness	3-FT. LENGTH Item No.	3½-FT. LENGTH Item No.	4-FT. LENGTH Item No.	5-FT. LENGTH Item No.
Stair Treads Covers—Install with Fasteners						
Black	9"	9/32"	**1AJZ5**	**2TUZ3**	**1AJZ6**	**2TUZ5**
Black	11"	9/32"	**1AJZ7**	**2TUZ6**	**1AJZ8**	**2TUZ8**
Black with Safety Yellow Front	9"	9/32"	**2TUZ9**	**2TVA1**	**2TVA2**	**2TVA4**
Black with Safety Yellow Front	11"	9/32"	**2TVA5**	**2TVA6**	**2TVA7**	**2TVA9**
Concrete Gray	9"	9/32"	**20X775**	—	**20X776**	**20X777**
Concrete Gray	11"	9/32"	**20X778**	—	**20X779**	**20X780**
Yellow/Black	11"	5/32"	**20X803**	—	**20X804**	**20X805**
Stair Nosings—Install with Fasteners						
Black Extruded Aluminum	3"	1/4"	**2TVD3**	—	**2TVD4**	**2TVD5**
Silver Cast Aluminum	3"	5/16"	**2TVD6**	—	**2TVD7**	**2TVD8**
Stair Nosings—Set in Concrete						
Black Extruded Aluminum	3"	1/4"	**2TVC6**	—	**2TVD1**	**2TVD2**
Black Extruded Aluminum	4"	1/4"	**2TVC9**	—	**2TVD1**	**2TVD2**



No. 1AJF7



No. 12F876



No. 448K68



No. 448K62

Antislip Tape Rolls and Strips

Grit-coated antislip tape has pressure-sensitive adhesive backing that sticks to virtually any smooth, dry surface.

Color/Grade	W	L	Brand	Item No.	Pkg. Qty.
Safety Tape					
FLEX-TRED® Continuous Rolls					
Black, Medium	¾"	60 ft.	Wooster	**12E910**	1
Black, Coarse	1"	60 ft.	Wooster	**1AJF5**	1
Black, Medium	2"	30 ft.	Wooster	**12E915**	1
Black, Coarse	2"	60 ft.	Wooster	**1AJF6**	1
Black, Medium	3"	60 ft.	Wooster	**12E911**	1
Black, Medium	4"	30 ft.	Wooster	**12E916**	1
Black, Coarse	4"	60 ft.	Wooster	**1AJF7**	1
Black, Medium	6"	30 ft.	Wooster	**12E917**	1
Black, Coarse	6"	60 ft.	Wooster	**1AJY4**	1
Black, Medium	6"	60 ft.	Wooster	**12E913**	1
Black, Medium	12"	15 ft.	Wooster	**2TUY8**	1
Black, Coarse	12"	30 ft.	Wooster	**12F877**	1
Black, Medium	18"	15 ft.	Wooster	**2TUY9**	1
Black, Medium	24"	15 ft.	Wooster	**2TUZ1**	1
Safety Strips					
FLEX-TRED® Strips					
Black/Yellow Striped	6"	2 ft.	Wooster	**1AJZ1**	10
Black, Medium	6"	2 ft.	Wooster	**3JW40**	50
Yellow	6"	2 ft.	Wooster	**12F876**	10
Safety Tape					
Safety-Track® Commercial-Grade Continuous Rolls					
Black, High Traction	8"	60 ft.	Jessup	**448K63**	1
Black, High Traction	24"	60 ft.	Jessup	**448K64**	1
Black/Yellow Striped, High Traction	1"	60 ft.	Jessup	**448K66**	1
Black/Yellow Striped, High Traction	2"	60 ft.	Jessup	**448K67**	1
Black/Yellow Striped, High Traction	3"	60 ft.	Jessup	**448K68**	1
Black/Yellow Striped, High Traction	4"	60 ft.	Jessup	**448K69**	1
Black/Yellow Striped, High Traction	6"	60 ft.	Jessup	**448K71**	1
Safety Strips					
Safety-Track® Commercial-Grade Strips					
Black/Yellow Striped, High Traction, Caution Legend	6"	2 ft.	Jessup	**448K62**	10
Black/Yellow Striped, High Traction	4"	2 ft.	Jessup	**448K70**	10


No. 12E779



No. 12E825


No. 12E827


No. 12E850

Nonslip Tape, Strips, and Stair Treads

▶SAFETY TAPE

General Purpose, Commercial-Grade—Nonslip tape is recommended for indoor and outdoor stair and walkway applications.

Heavy-Duty Grade—Premium nonslip tape can withstand exposure to oil, diesel fuel, and weather in extreme environments.

Resilient, Medium Grade—Rubberized, textured nonslip tape is recommended for boat trailers, ramps, and ladders.

Mop Friendly—Easy-to-clean tape can handle heavy shoe traffic and frequent mopping.

FLEX TAPE ANTISLIP TAPE STRIPS AND RECTANGLES

Nonabrasive, embossed PVC tape provides grip suitable for bare feet in tub and shower applications. Mop friendly.

Color	W	L	Brand	Item No.	Pkg. Qty.
Safety Tape					
General Purpose, Commercial-Grade Rolls					
Black	1"	60 ft.	Condor	**12E763**	1
Black/Yellow	1"	60 ft.	Jessup	**12E769**	1
Clear	1"	60 ft.	Wooster	**452D87**	1
Black/Yellow	2"	60 ft.	Condor	**12E779**	1
Black	2"	60 ft.	Wooster	**452D73**	1
Black	3"	60 ft.	Condor	**12E782**	1
Black/Yellow	3"	60 ft.	Jessup	**12E790**	1
Black/Yellow, Caution Watch Your Step Legend	3"	60 ft.	Wooster	**452D67**	1
Black/Yellow, Caution Legend	3"	60 ft.	Wooster	**452D79**	1
Black	4"	60 ft.	Wooster	**452D74**	1
Black/Yellow	4"	60 ft.	Condor	**12E797**	1
Clear	4"	60 ft.	Jessup	**12E792**	1
Black/Yellow	6"	60 ft.	Condor	**12E813**	1
Black	8"	60 ft.	Condor	**12E830**	1
Black	12"	60 ft.	Wooster	**452D70**	1
Black/Yellow	12"	60 ft.	Condor	**12E838**	1
Black	24"	30 ft.	Wooster	**452D72**	1
Black	24"	60 ft.	Condor	**12E842**	1
General Purpose, Commercial-Grade Strips and Treads					
Black	3"	2 ft.	Wooster	**452D71**	50
Gray	3"	2 ft.	Wooster	**452D68**	50
Black	5½"	5½"	Wooster	**452D69**	50
Black	6"	2 ft.	Wooster	**452D76**	10
Clear	6"	2 ft.	Wooster	**452D88**	10
Black/Yellow	6"	2 ft.	Condor	**12E824**	10
Black/Photoluminescent	6"	2 ft.	Jessup	**12E817**	24
Black/Yellow, Caution Legend	6"	2 ft.	Jessup	**12E825**	24
Black	6"	2 ft.	Wooster	**452D75**	50
Yellow	6"	2 ft.	Jessup	**12E821**	50
Heavy-Duty Grade					
Black	2"	60 ft.	Condor	**12E847**	1
Black	4"	60 ft.	Condor	**12E850**	1
Black	6"	60 ft.	Condor	**12E852**	1
Black	6"	2 ft.	Jessup	**12E854**	25
Black	6"	2 ft.	Jessup	**12E853**	50
Resilient, Medium Grade					
Gray	6"	60 ft.	Jessup	**12E867**	1
Black	12"	60 ft.	Jessup	**12E869**	1
Mop Friendly					
Black	6"	2 ft.	Jessup	**12E827**	10
Flex Tape					
Tub and Shower Strips					
White	¾"	7½"	Condor	**3EYK7**	12
Tub and Shower Rectangles					
White	16"	34"	Condor	**3EYK4**	1


No. 21YT79


No. 6AD55

Safety-Walk™ Slip-Resistant Tape and Treads

300 Series—Resilient, nonmineral material is suitable for bare feet.

500 Series—Mineral-coated tape with aluminum foil backing conforms to irregular surfaces. Suitable for diamond-grade safety plates, steps, and ladder rungs.

600 Series—General purpose tape has a low-profile design to help reduce tripping hazards. Mineral-coated.

700 Series—Extra-large abrasive mineral particles and high-performance adhesive are suitable for extreme high-traffic areas, even wet or oily ones.

Color	W	L	Item No.	Pkg. Qty.
300 Series				
Black	1"	60 ft.	**21YT69**	1
Gray	1"	60 ft.	**21YT67**	1
Black	2"	60 ft.	**6BV25**	1
Gray	2"	60 ft.	**6BV30**	1
Black	4"	60 ft.	**6BV26**	1
Gray	4"	60 ft.	**6BV29**	1
Black	6"	2 ft.	**2JDC5**	50
Black	6"	60 ft.	**6BV27**	1
500 Series				
Black	2"	60 ft.	**6BV21**	1
Yellow	2"	60 ft.	**21YT79**	1
Black	4"	60 ft.	**6BV22**	1
Yellow	4"	60 ft.	**35XN38**	1
Black	6"	2 ft.	**6BV20**	50
Black	6"	60 ft.	**6BV23**	1
600 Series				
Black	1"	60 ft.	**6BV13**	1
Yellow	1"	60 ft.	**35XN36**	1
Black	2"	60 ft.	**5AN34**	1
Yellow	2"	60 ft.	**6BV15**	2
Black	4"	60 ft.	**6AD55**	1
Yellow	4"	60 ft.	**6BV16**	1
Black	6"	2 ft.	**5AN41**	50
Black	6"	60 ft.	**3AH44**	1
Black	1 ft.	60 ft.	**6BV14**	1
Black	18"	60 ft.	**21YT73**	1
700 Series				
Black	4"	30 ft.	**2JCZ5**	1
Black	6"	30 ft.	**2JDA5**	1


No. 3ZG32


No. 4T628


No. 2PB71

Antislip Marking Tape

Antislip Tape and Treads—Grit-coated polyester with permanent pressure-sensitive adhesive can be used indoors or out. No. 4T628 is suitable for use on steps and in entryways.

Heavy-Duty, Antislip Tape—Great on loading docks, ramps, and other demanding locations, with a deep-textured silicon carbide grit and aggressive adhesive that withstands harsh elements such as oil, fuel, and grease.

Antislip, Glow-in-the Dark Tape—Used for traction on steps and to mark egress pathways. Glows up to 10 hr.

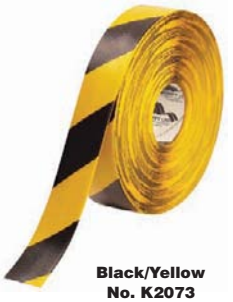
Color	W	L	Brand	Item No.
Antislip Tape, Continuous Roll				
Black	1"	60 ft.	Condor	**6U950**
Black/Yellow	1"	60 ft.	Condor	**3ZG31**
Yellow	2"	60 ft.	Jessup	**448K75**
Black/Yellow	2"	60 ft.	Condor	**3ZG32**
Black/Yellow	3"	60 ft.	Condor	**3ZG33**
Black	4"	60 ft.	Condor	**6U951**
Black	6"	60 ft.	Condor	**6U953**
Black/Yellow	6"	60 ft.	Condor	**3ZG35**
Black	12"	60 ft.	Jessup	**448K76**
Antislip Treads, Pkg. of 50				
Black	6"	2 ft.	Condor	**4T628**
Heavy-Duty, Antislip Tape, Continuous Roll				
Black	4"	60 ft.	Condor	**15Y419**
High-Intensity Glow-in-the-Dark Marking Tape, Continuous Roll				
White	1"	60 ft.	Incom	**462C96**
White	1"	250 ft.	Brady	**2PB71**



Red
No. E3476



Orange w/Blue Line
No. K2072



Black/Yellow
No. K2073

MIGHTY LINE
The Only Durable Stripe

Floor Marking Tape

▪ More sizes and colors are available online, see Grainger.com®

This durable floor tape is excellent for separating pedestrians and motorized vehicles in busy areas and walkways. Peel-and-stick floor tape has beveled edges for improved durability in harsh environments. Color code different areas using specific colors or patterns of tape.

W	L	▶CHOOSE: Color	Item No.
Solid			
2"	100 ft.	Black, Blue, Gray, Green, Orange, Purple, Red, White, Yellow	**E3476**
3"	100 ft.	Black, Blue, Brown, Gray, Green, Orange, Red, White, Yellow	**H7546**
4"	100 ft.	Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	**E3477**
6"	100 ft.	Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	**E7645**
Solid with Center Line			
2"	100 ft.	Orange w/Blue Line, Yellow w/Black Line, Yellow w/Blue Line, Red w/Fluorescent Line, Yellow w/Fluorescent Line	**K2071**
4"	100 ft.	Orange w/Blue Line, Yellow w/Black Line, Yellow w/Blue Line, Red w/Fluorescent Line, Yellow w/Fluorescent Line	**K2072**
Striped			
2"	100 ft.	Black/White, Black/Yellow, Red/White	**K2073**
3"	100 ft.	Black/White, Black/Yellow, Red/White	**K2074**
4"	100 ft.	Black/White, Black/Yellow, Red/White	**K2075**
6"	100 ft.	Black/White, Black/Yellow, Red/White	**K2076**



Solid Green
No. E7754



Striped Orange/Black
No. E0416

Vinyl Marking Tape

GRAINGER APPROVED

Pressure-sensitive adhesive tape is waterproof and resists many common solvents.

W	L	▶CHOOSE: Color	Item No.
Solid			
1"	180 ft.	Black, Blue, Green, Red, Yellow	**E0418**
2"	108 ft.	Orange	**6FXV2**
2"	180 ft.	Black, Blue, Green, Red, White, Yellow	**F0295**
3"	180 ft.	Black, Blue, Green, Red, White, Yellow	**E0419**
4"	180 ft.	Black, Blue, Green, Red, White, Yellow	**E7754**
6"	180 ft.	Black, Blue, Green, Red, White, Yellow	**E7755**
8"	180 ft.	Yellow	**E7756**
12"	180 ft.	White	**E7757**
Striped			
1"	54 ft.	White/Black, Green/White, Orange/Black, Red/White, Magenta/Yellow	**E0415**
2"	54 ft.	Magenta/Yellow, Orange/Black	**E0416**
3"	54 ft.	Magenta/Yellow, Orange/Black	**E0417**
4"	54 ft.	Green/White, Magenta/Yellow, White/Black, Orange/Black	**E7742**
6"	54 ft.	Green/White, Magenta/Yellow	**E7743**
12"	54 ft.	Red/White, Yellow/Black	**E7747**



BRADY

ToughStripe® Floor Marking Tape

High-gloss polyester tape is easy to apply and remove, resists harsh chemicals, and exceeds standards for clean, dry nonslip surfaces. It's great for marking important safety equipment and egress paths.

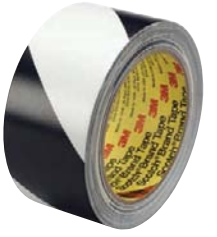
Pattern	W	L	▶CHOOSE: Color	Item No.	Pkg. Qty.
Floor Marking Tape					
Solid	2"	100 ft.	Black, Blue, Green, Orange, Red, White, Yellow	**G5686**	1
Striped	2"	100 ft.	Black/White, Black/Yellow, Red/White	**G5686**	1
Solid	3"	100 ft.	Black, Blue, Green, Orange, Red, White, Yellow	**G5687**	1
Striped	3"	100 ft.	Black/White, Black/Yellow, Red/White	**G5687**	1
Solid	4"	100 ft.	Black, Blue, Green, Orange, Red, White, Yellow	**G5688**	1
Striped	4"	100 ft.	Black/White, Black/Yellow, Red/White	**G5688**	1
Dots, 3½" dia.					
Solid	2"	—	Black, Red, White, Yellow	**G5689**	55
Pre-Spaced Dots, 3½" dia.					
Solid	—	—	Blue, Green, Red, White, Yellow	**G5690**	350
Pre-Spaced Arrows					
Solid	2"	5"	Red, Yellow	**G5691**	52
Pre-Spaced Dashes					
Solid	2"	8"	Black, Blue, Green, Red, White, Yellow	**G5705**	46
Arrows					
Solid	2"	5"	Blue, Green, Red, White	**G5692**	100
Solid	3"	8"	Blue, Green, Yellow	**G5693**	100
Solid	4"	10"	Blue, Green, Red, White, Yellow	**G5694**	100
Foot (Right and Left)					
Solid	3½"	10"	Black, Blue, Green, Red, White, Yellow	**G5695**	10
Corner Marks (L)					
Solid	2"	5"	Black, Blue, Green, Red, White, Yellow	**G5696**	20
Solid	3"	8"	Black, Blue, Green, Red, White, Yellow	**G5697**	20
Solid	4"	10"	Black, Blue, Red, White, Yellow	**G5698**	20



Green
No. D7624



No. 24A735



No. 45RM73

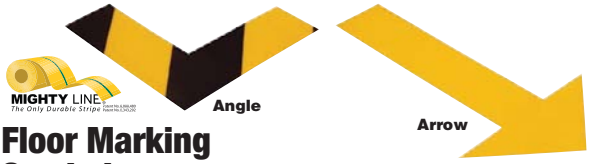
Floor Marking Tape

3M

Series 471—Solid-color tape made of 5.2-mil thick vinyl backing with a rubber adhesive has good solvent resistance and removes cleanly. Conformable dead-stretch properties for straighter lines—great to mask, wrap, or seal many curved or irregular surfaces. Excellent for lane and safety marking.

Series 5702 and 5700—Striped floor marking and safety identification tape calls attention to dangerous work areas as it protects, masks, and seals. 5.4-mil vinyl backing with rubber adhesive resists most common solvents.

W	▶CHOOSE: Color	Item No.
Series 471, Solid, 108 ft.		
¾"	Blue, White	**J1038**
1"	Red, Blue, White, Yellow	**D7623**
2"	Red, Green, Blue, Yellow, White, Black, Purple	**D7624**
3"	Yellow, Red, Blue, White, Green	**E4128**
Series 5702, Striped, 108 ft.		
1"	Black/Yellow	**24A735**
2"	Black/Yellow	**15F796**
Series 5700, Striped, 108 ft.		
2"	Black/White	**45RM73**



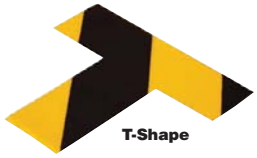
Floor Marking Symbols

Ideal for accenting exit walkways, directing workflow, and keeping your facility organized. Vinyl material.

Pattern	Color	Thickness	Item No.	Pkg. Qty.
Angle, 6 in x 2"				
Solid	Black	55 mil	**3YTE2**	100
Solid	Blue	55 mil	**3YTE5**	100
Solid	White	55 mil	**3YTE8**	100
Solid	Yellow	55 mil	**3YTF2**	100
Striped	Black/White	55 mil	**3YTG2**	100
Striped	Black/Yellow	55 mil	**3YTG5**	100
Angle, 6 in x 3"				
Solid	White	50 mil	**20PG14**	100
Arrow, 10 in x 6"				
Solid	Black	50 mil	**20PG38**	50
Solid	Blue	50 mil	**20PG36**	50
Solid	White	50 mil	**20PG41**	50
Solid	Yellow	50 mil	**20PG33**	50
Dot, 2 1⁄16 in dia.				
Solid	Black	50 mil	**20PG28**	200
Solid	Blue	50 mil	**20PG26**	200
Solid	White	50 mil	**20PG31**	200
Solid	Yellow	50 mil	**20PG23**	200
Dot, 3 ½ in dia.				
Solid	Orange	50 mil	**20PG19**	100
Footprint, 9 in x 6"				
Solid	Gray	50 mil	**20PG16**	50
T-Shape, 6 in x 2"				
Solid	Blue	55 mil	**3YTH2**	100
Solid	Yellow	55 mil	**3YTH8**	100
Striped	Black/Yellow	55 mil	**3YTK2**	100


Dot


Footprints


T-Shape



No. 484P42

STRANCO

JESSUP Est. 1956

Condor



No. 12E826

Traction Floor Signs

Rough, high-traction anti-skid clear grit surface over message helps prevent slipping. 6"W x 24"L floor signs install easily with high-tack acrylic adhesive back, except No. 448K74 has a Kraft paper backing. Yellow/black color.

Legend	Material	Brand	Item No.	Pkg. Qty.
Caution	Vinyl	Stranco	**484P35**	1
Caution	Aluminum Oxide	Jessup	**12E825**	24
Caution Slippery When Wet	Vinyl	Stranco	**484P42**	1
Caution Watch For Forklifts	Vinyl	Stranco	**484P50**	1
Caution Watch Your Step	Vinyl	Stranco	**484P36**	1
Watch Your Step	Aluminum Oxide	Condor	**12E826**	24
Watch Your Step	Aluminum Oxide	Jessup	**448K74**	24

STRANCO ★ GA GRAINGER APPROVED

Border Floor Signs

Signs have eye-catching diagonal striped edge. The rough, high-traction surface has embedded clear grit to prevent slipping and also add durability to withstand heavy pedestrian traffic. Vinyl construction with strong, permanent acrylic adhesive back with peel-off liner. Yellow/black color.

Legend	Brand	Item No.
Mat Style, 20 in x 14 in		
Caution Area in Front of Electrical Panel Must Be Keep Clear For 36 Inches	Stranco	**484P79**
Caution Watch For Forklifts	Stranco	**484P80**
Caution Watch Your Step	Stranco	**484P78**
Step Style, 6 in x 24 in		
Authorized Personnel Only	Stranco	**484P39**
Caution Use Handrail	Stranco	**484P37**
Caution Keep Clear	Stranco	**484P38**
Caution Step Up	GA	**3YRU8**
Caution Step Down	GA	**3YRW3**



No. 484P79

HARRIS INDUSTRIES, INC.

Graphic Floor Tape

- Complies with UL 410-COF For Floor Graphics

Adhesive-backed laminate PVC 3"W x 54-ft. tape is 6 mil with a slip-resistant surface. No. 3YTC8 is 5.5 mil.



Legend	Color	Item No.
Slippery When Wet	Yellow/Black	**452D05**
Safety Glasses	Yellow/Black	**452D06**
Safety Footwear	Yellow/Black	**452D07**
Forklift Traffic	Yellow/Black	**452D08**
Hearing Protection	Yellow/Black	**3YTC8**
Fire Aisle-Keep Clear	Red/White	**452D09**
Emergency Exit	Red/White	**452D10**
Arc Flash Boundary	Red/White	**452D11**

Floor Signs

STRANCO

Adhesive, 17"-dia. signs are made of vinyl. Nos. 484P21, 484P22, 484P24 and 484P25 glow in the dark.


No. 484P21



No. 484P22



No. 484P24



No. 484P25



No. 467F30



No. 467F31



No. 467F32



No. 467F33



No. 467F34



No. 467F35



No. 467F36



No. 467F37



No. 467F38



No. 467F42



No. 467F43



No. 467F44



No. 467F45



No. 467F46



No. 467F47



No. 467F48



No. 467F49



No. 467F50



No. 467F52



No. 467F53



No. 467F54

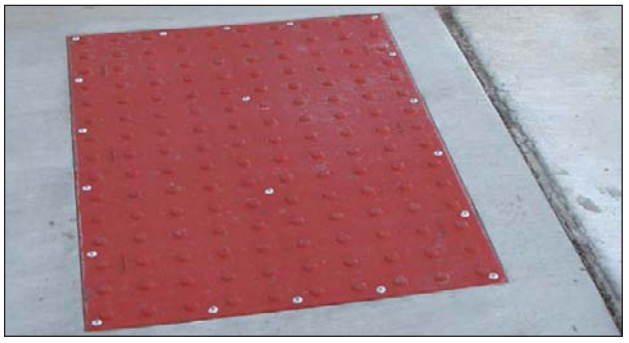


No. 467F58


No. 467F62



No. 467F87



No. H4129



No. E5325



No. 3EXA7

ADA Warning Pads

TufTile ULTRATECH INTERNATIONAL, INC.

- TufTile® pads comply with ADAAG/PROW/CA Title 24
- UltraTech pads comply with ADA 49 CFR 37.9

Raised, truncated-dome pads can be felt by the visually impaired with their feet and tapping cane.

TufTile pads are replaceable. Made of UV stabilized, high-impact polymer that is impact-, slip-, and wear-resistant and provides superior color stability and strength.

UltraTech pads are unbreakable, flexible urethane material that conforms to fit dips, slopes, and inclines in sidewalks and intersections.

Wet Set Pads—Pressed into freshly poured concrete. Each includes factory-installed anchors with tamper-resistant stainless steel fasteners.

Surface-Mount Pads—Install quickly and easily onto cured concrete.

TufTile pads feature low-profile design and beveled edges. Include anchors, tamper-resistant stainless steel fasteners, sealant, and a masonry bit.

UltraTech pads include adhesive and anchors.

▶CHOOSE: Color	W	L	Brand	Item No.
Wet Set Pads				
Brick Red, Colonial Red, Yellow	2 ft.	2 ft.	TufTile	**H4129**
Brick Red, Colonial Red, Yellow	2 ft.	3 ft.	TufTile	**H4132**
Brick Red, Colonial Red, Yellow	2 ft.	4 ft.	TufTile	**H4135**
Colonial Red, Brick Red, Yellow	2 ft.	5 ft.	TufTile	**J0991**
Surface Mount Pads				
Black, Yellow, Brick Red	2 ft.	2 ft.	UltraTech	**E5324**
Brick Red, Colonial Red, Yellow	2 ft.	2 ft.	TufTile	**H4138**
Brick Red, Colonial Red, Yellow	2 ft.	3 ft.	TufTile	**H4141**
Yellow, Brick Red, Black	2 ft.	3 ft.	UltraTech	**E5325**
Brick Red, Black	2 ft.	4 ft.	UltraTech	**E5326**
Brick Red, Colonial Red, Yellow	2 ft.	4 ft.	TufTile	**H4144**
Epoxy Adhesive				
Tan	—	—	UltraTech	**3EXA7**



No. 49ZW06



No. 49ZW11



No. 49ZW12

Raised Pavement Markers

3M

Retroreflective polymer markers are highly visible at night and in rainy conditions. Durable construction includes rumble effect for increased awareness. Finger grips for easy application with pressure-sensitive adhesive.

Color	W	L	Item No.	Pkg. Qty.
White	3¾"	4"	**49ZW06**	100
Yellow	3¾"	4"	**49ZW07**	100
White/Red	3¾"	4"	**49ZW08**	100
White	3¾"	4"	**49ZW09**	100
Yellow	3¾"	4"	**49ZW10**	100
Yellow/Red	3¾"	4"	**49ZW11**	100
Blue	3¾"	4"	**49ZW12**	100
White	3¾"	4"	**49ZW13**	100
White	3¾"	4"	**49ZW14**	100
White/Red	3¾"	4"	**49ZW15**	100
Yellow	3¾"	4"	**49ZW16**	100
Blue	3¾"	4"	**49ZW17**	100

TAPCO Safe travels.



No. 38A882



No. 38A884



Adhesive Pad

TMP Temporary Pavement Markers

Provide high visibility day and night. Offer 1.6 sq. in. of reflective area. For construction zones; designed for use with or without temporary tape or paint. Install with Adhesive Pads, sold separately.

Color	W	L	Item No.	Pkg. Qty.
One-Way Markers				
Amber	4"	4"	**38A881**	100
White	4"	4"	**38A883**	100
Two-Way Markers				
Amber	4"	4"	**38A882**	100
White	4"	4"	**38A884**	100
Adhesive Pads				
Black	4"	4"	**38A885**	100



No. 20TL02



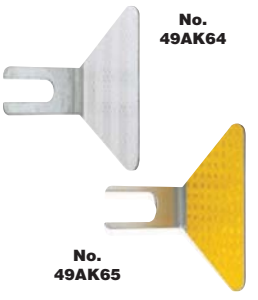
No. 3KJZ5

HARRIS INDUSTRIES, INC. BRADY

Reflective Temporary Pavement-Marking Tape

Apply to asphalt or concrete. Can be removed or paved over. Harris® tape is metallic film with pressure-sensitive adhesive backing. Brady® tape is glass bead-coated paper with foil backing.

Color	W	L	Brand	Item No.
Yellow	2"	150 ft.	Harris	**3KJZ3**
Yellow	4"	150 ft.	Brady	**20TL02**
White	4"	150 ft.	Harris	**3KJZ5**
White	4"	150 ft.	Brady	**20TL01**



No. 49AK64

No. 49AK65

TAPCO Safe travels.

Guardrail Reflectors

Feature 8 sq. in. of high-intensity sheeting per side and galvanized steel construction. Bolt-on installation.

Description	Color	Item No.
Two-Sided	White	**49AK64**
	Amber	**49AK65**



Front Side
Blue
No. E4207



Back Side
Blue
No. E4207



No. 24Y975



Front Side
Orange
No. H6445

Back Side
Orange
No. H6445

Condor

DMS Keeping America Prepared™

Public Safety Vests

- Hook-and-loop closure

Highly visible vests are designed for EMS providers. Color-specific markings differentiate between various emergency responders.

No. E4207 is made from a 100% polyester fabric with 1"W high-intensity Reflexite® material and a clear plastic card holder. No. 24Y975 has polyester mesh upper and solid polyester body. No. H6445 is heavy-duty, double-stitched nylon with high-glow ANSI reflective stripes. Create your own positions with this breakaway vest. Vest includes one set of hook-and-loop placards imprinted with different positions, easily changed as the incident expands.

▶CHOOSE: Color	ANSI Class	Vest Size	Vest Material	Includes	Brand	Item No.
Black, Blue, Green, Red, White, Yellow	Unrated	Universal	Polyester	(1) Clear Plastic Card Holder, (1) Chest Pocket, (1) Inner Pocket	Condor	**E4207**
High Visibility Green	Unrated	2XL/4XL	Polyester	Left Chest Mic Tab, Adjustable Sides, Folds Into Storage Pouch	Condor	**24Y975**
Black, Blue, Gray, Green, Orange, Red, White, Yellow	Type P, Class 2	Universal	Nylon	Clear Plastic Card Holder	DMS	**H6445**



No. 38E569

DMS Keeping America Prepared™

Incident Command Safety Vest Kits

- Hook-and-loop closure

Each kit includes assorted color nylon vests with silver/yellow stripes. Universal size vests fit chest size up to 62".

Description	ANSI Class	Includes	Item No.
Incident Command Kit	Type P, Class 2	(8) Dynamic Position Vests with Clipboards, Job Action Sheets, Durable Carry Bag	**38E569**
Major ICS Vest Kit	Type P, Class 2	(31) Dynamic Position Vests with Clipboards, Job Action Sheets, Durable Carry Bag	**38E628**
Large Local EOC Vest Kit	Type P, Class 2	(45) Dynamic Position Vests with Clipboards, Job Action Sheets, Durable Carry Bag	**38E631**



No. 1EKU2



No. 1EKU3

Motorist Safety Warning Kits

Cortina Safety Products Group

Motorist Safety Kit—Conveniently fits under most vehicle seats. Vinyl storage bag contains 2 red 30-min. light sticks, 1 warning triangle, and 1 XL-size safety vest.

Triangle Warning Kit with 3 Triangles—Highway-rated kit contains warning triangles and a storage box. Meets FMVSS 125.

Description	Item No.
Motorist Safety Kit w/ Warning Triangle	**1EKU2**
Triangle Warning Kit w/ 1 Triangle	**45TX49**
Triangle Warning Kit w/ 3 Triangles	**1EKU3**



No. 45MG25



No. 8FXC0



No. 2KCW4

Cortina Safety Products

★GA GRAINGER APPROVED

Safety Flares and Storage Cases

- Flares are UL Listed

Highly visible flares ignite with self-contained striker. Polyethylene Storage Cases are equipped with a handle for easy transport. Red color.

L	Flare Duration	Brand	Item No.	Pkg. Qty.
Nonspike Safety Flares				
10½"	20 min.	Cortina	**45MG25**	72
17½"	30 min.	Cortina	**45MG26**	36
Spike Flares w/Wire Stand				
14"	30 min.	GA	**8FXC0**	36
Nonspike Flare Cases—Hold Up to 12 Flares				
17½"	—	Cortina	**2KCW3**	1
14½"	—	Cortina	**2KCW4**	1

PowerFlare®

No. D6166



LED Safety Lights

Ultrabright lights use 16 all-direction LEDs for visibility up to 7 mi. Compact, 1¼"H x 4¼"-dia. lights work underwater and in hot or freezing temperatures. 10 flash patterns including "SOS" and solid-on lantern. Feature lithium batteries. Run up to 150 hr. on one battery. Rechargeable light kits plug into a vehicle hot point (12/30VDC).

▶CHOOSE: LED Color	▶CHOOSE: Shell Color	Includes	Item No.
PowerFlare® LED Safety Lights with Replaceable Batteries			
Blue	Yellow	Battery	**5NJU4**
Amber, Amber/Red, Red	Orange, Yellow	Battery	**D6163**
PowerFlare® LED Safety Light Kits with Carrying Bag and Replaceable Batteries			
Amber, Amber/Red, Red	Orange, Yellow	(3) Lights, (3) CR123 Batteries, Orange Carrying Bag	**D6164**
Amber, Amber/Red, Red	Orange, Yellow	(4) Lights, (4) CR123 Batteries, Orange Carrying Bag	**D6165**
Amber, Amber/Red, Red	Orange, Yellow	(6) Lights, (6) CR123 Batteries, Orange Carrying Bag	**D6166**
Amber, Amber/Red, Red	Orange, Yellow	(8) Lights, (8) CR123 Batteries, Orange Carrying Bag	**D6167**
PowerFlare® Safety Light Kits with Charging Station			
Amber, Red	Yellow	(6) Lights, (6) Rechargeable Batteries, Charging Station	**G8444**
Blue, Blue/Red	Yellow	(6) Lights, (6) Rechargeable Batteries, Charging Station	**G8445**
PowerFlare® AC/DC Adapter			
—	—	AC to DC Converter	**30RU10**

FLAREALERT LED LIGHTING

Red LED
No. H5597



LED Safety Lights

Water-resistant, crush-resistant, reusable flares produce 360° beacons of light that can be seen for miles. The magnetic base lets you elevate the light for better visibility. Require 4 AA batteries, not included except in kits.

0.5W LED light battery life is 40-hr. steady, 140-hr. flash. 1W LED light battery life is 20-hr. steady, 60-hr. flash.

Kit Nos. H5599, H5595, and H5596 include cone adapters that hold 1 or 2 lights vertically and weighted bases to keep lights firmly in place when marking a traffic pattern or landing zone.

Description	▶CHOOSE: LED Color	Item No.
LED Safety Lights		
0.5W Light	Red, Yellow	**H5594**
1W Light	Red, Yellow	**H5600**
	Blue, Green, White	**H5601**
LED Safety Light with Storage Bag		
(3) 0.5W Lights	Red, Yellow	**H5597**
(3) 1W Lights	Red, Yellow	**H5602**
	Blue, Green, White	**H5603**
(8) 0.5W Lights	Red, Yellow	**H5598**
(8) 1W Lights	Blue, Green, White	**H5604**
LED Safety Light Kits		
(8) 1W Lights, Storage Bag	Red	**3LXD9**
(8) 0.5W Lights, (8) Cone Adapters, (8) Weighted Bases, (32) AA Batteries	Red, Yellow	**H5599**
(8) 1W Lights, (8) Cone Adapters, (8) Weighted Bases, (32) AA Batteries	Red, Yellow Blue, Green, White	**H5595** **H5596**
Accessory		
Cone Adaptor	—	**52TD08**



No. 3NRA7



No. 5YB27

Light Sticks

CYALUME Technologies

Snap and shake for 360° illumination and visibility up to 1 mile. Nontoxic, nonflammable, and waterproof. ChemLight models meet DLA and NAMSA Military Specifications.

L	Duration	Color	Item No.	Pkg. Qty.
ChemLight				
6"	3 hr.	IR*	**20UL12**	10
6"	8 hr.	Blue	**3NRA7**	10
6"	8 hr.	White	**3NRA8**	10
SnapLight®				
6"	8 hr.	White	**9FWU0**	10
6"	12 hr.	Green	**8XZM7**	10
12"	12 hr.	Green	**5YB27**	1

** Requires night vision goggles.*



No. 26L094



No. 26L101

AERVOE®

LED Baton Traffic Flares and Road Flares

Rechargeable flares are a safer alternative to traditional incendiary flares. Crush-resistant body with impact-resistant rubber housing. Waterproof. Intrinsically-safe design with rubber-tight seals. Include a 120V wall charger and 12V vehicle charger.

LED Baton Traffic Flares and Kits—Have a ½"W LED flashlight and 14 signal LEDs visible up to ½ mi., to use as an emergency road flare or handheld safety wand. Feature five different flash patterns.

Super LED Road Flares and Kits—Have 24 LEDs and 2 rows of lights to boost visibility up to 2 mi. 7 flash patterns. 4-Pack Kits are great for first responders.

Flex-Fit Tripod—Use to elevate flares in a vertical position for greater visibility.

Description	Number of LEDs	LED Color	Shell Color	Item No.
LED Baton Traffic Flares				
Single Flare	15	Yellow	Yellow	**26L091**
Single Flare	15	Red	Orange	**26L092**
Single Flare	15	Blue/Red	Blue	**35MT04**
LED Baton Traffic Flare Kits				
3 Flares and 2 Flex-Fit Tripods	15	Red	Orange	**26L093**
3 Flares and 2 Flex-Fit Tripods	15	Yellow	Yellow	**26L094**
3 Flares and 2 Flex-Fit Tripods	15	Blue/Red	Blue	**35MT05**
Super LED Road Flares				
Single Flare	24	Yellow	Yellow	**26L097**
Single Flare	24	Red	Orange	**26L098**
Super LED Road Flare Kits				
4 Flares and 2 Flex-Fit Tripods	24	Red	Orange	**26L099**
4 Flares and 2 Flex-Fit Tripods	24	Yellow	Yellow	**26L101**
Accessory				
Flex-Fit Tripod				**26L095**

Flashback Three™ Light Batons



Flashback Five™ Illuminator Light Baton



EMI®

LED Light Batons

Range of up to 1 mi. Batteries not included. Feature nonslip textured grip, magnetic tailcap, built-in belt clip, and wrist strap.

Flashback Three™ Light Batons—3-stage switch provides flashing light, steady light, and an endcap flashlight. Weather-resistant, high-impact ABS plastic body.

Flashback Five™ Illuminator Light Baton—5-stage switch provides red, blue, red/blue alternating, red/blue blend, plus 360° constant-on white light.

Flashback Traffic Controller Light Baton—3-stage switch provides green and red steady light and endcap flashlight. High-impact weather-resistant ABS plastic body has a nonslip textured grip, built-in belt clip, wrist strap, and magnetic tailcap.

LED Color	Operating Life	Power Source	Item No.
Flashback Three™ Light Batons			
Red	90 hr. Steady	(3) AA Batteries	**15U923**
Blue	90 hr. Steady	(3) AA Batteries	**15U924**
Amber	90 hr. Steady	(3) AA Batteries	**15U925**
Flashback Five™ Illuminator Light Baton			
Blue/Red/White	72 hr. Steady	(4) AA Batteries	**15U922**
Flashback Traffic Controller Light Baton			
Green/Red/White	300 hr. Steady, 90 hr. Flashing	(4) AA Batteries	**33VP36**



Barricade Tape
No. 4A416


Flagging Tape
No. 1EC17


Marking Flag
No. 5MD31

★GA GRAINGER APPROVED

Barricade Tape, Flagging Tape, and Marking Flags

Polyethylene barricade tape features repeat wording that identifies hazards and outlines restricted areas. Legend wording for all barricade tape is black. Polyplastic flagging tape is a highly visible solid color and can be used with marking flags for even better visibility.

Legend	Color	W	L	Thickness	Item No.
Barricade Tape					
Caution	Yellow	3"	200 ft.	3 mil	**8AW25**
Caution	Yellow	3"	300 ft.	2 mil	**36UV37**
Caution	Yellow	3"	500 ft.	3 mil	**30WU18**
Caution	Yellow	3"	1000 ft.	1.6 mil	**4A416**
Caution	Yellow	3"	1000 ft.	3 mil	**21YH35**
Caution	Yellow	3"	1000 ft.	4 mil	**8RLR9**
Caution	Yellow	3¾"	500 ft.	6 mil	**21YH34**
Caution, Do Not Enter	Yellow	3"	1000 ft.	3 mil	**36UV34**
Caution/Cuidado	Yellow	3"	1000 ft.	4 mil	**8FGT5**
Caution Caution Caution	Yellow	3"	500 ft.	7 mil	**8XYZ2**
Caution Chemical Spill	Yellow	3"	500 ft.	4 mil	**9TZL4**
Caution Construction Area	Yellow	3"	1000 ft.	1.6 mil	**1N958**
Caution Cuidado	Yellow	3"	300 ft.	4 mil	**9CYF2**
Caution Cuidado	Yellow	3"	1000 ft.	1.6 mil	**1N922**
Caution Do Not Enter	Yellow	3"	1000 ft.	1.6 mil	**1N956**
Caution Do Not Enter	Yellow	3"	1000 ft.	3 mil	**21YH36**
Caution No Parking	Yellow	3"	1000 ft.	1.6 mil	**1N954**
Caution Wet Paint	Yellow	3"	1000 ft.	2 mil	**35R878**
Construction Site	Yellow	3"	1000 ft.	4 mil	**8AD02**
Crime Scene Do Not Cross	Yellow	3"	1000 ft.	3 mil	**31XM60**
Danger	Red	3"	500 ft.	7 mil	**30WU19**
Danger	Red	3"	1000 ft.	1.6 mil	**1N960**
Danger	Red	3"	1000 ft.	3 mil	**21YH37**
Danger Asbestos Hazard	Red	—	1000 ft.	2 mil	**35R881**
Danger Do Not Enter	Red	3"	1000 ft.	1.6 mil	**1N962**
Danger Do Not Enter	Red	3"	1000 ft.	4 mil	**9WN56**
Danger Do Not Enter	Red/White Stripe	3¼"	1000 ft.	3 mil	**21YH41**
Danger High Voltage	Red/White Stripe	3¼"	1000 ft.	3 mil	**21YH42**
Danger Lead Hazard	Red	—	1000 ft.	2 mil	**35R880**
Fire Line Do Not Cross	Yellow	3"	1000 ft.	1.6 mil	**4ACD5**
Hazardous Area Keep Out	Yellow	3"	1000 ft.	1.6 mil	**1N952**
Police Line Do Not Cross	Yellow	3"	1000 ft.	1.6 mil	**4ACD4**
Police Line Do Not Cross	Yellow	3¼"	1000 ft.	3 mil	**21YH38**
QA Hold	Yellow	3"	1000 ft.	4 mil	**9PNZ6**
Security Line Do Not Cross	Yellow	3"	1000 ft.	3 mil	**8AFV4**
Utility Line Do Not Cross	Yellow	3¼"	1000 ft.	3 mil	**21YH39**
Warning Restricted Area	Yellow	3"	1000 ft.	1.6 mil	**1N912**

Color	W	L	Thickness	Item No.
Flagging Tape				
Blue	1 3/16"	300 ft.	2 mil	**1EC26**
Fluorescent Blue	1 3/16"	150 ft.	4 mil	**1EC21**
Fluorescent Lime	1 3/16"	150 ft.	4 mil	**1EC19**
Fluorescent Orange	1 3/16"	150 ft.	4 mil	**1EC17**
Fluorescent Pink	1 3/16"	150 ft.	4 mil	**1EC18**
Fluorescent Red	1 3/16"	150 ft.	4 mil	**1EC20**
Fluorescent Red	1 3/16"	300 ft.	2 mil	**1EC23**
Orange	1 3/16"	300 ft.	2 mil	**1EC25**
White	1 3/16"	300 ft.	2 mil	**1EC24**
Yellow	1 3/16"	300 ft.	2 mil	**1EC22**
Flagging Tape Rated for Sub-Zero Temperature Conditions				
Fluorescent Blue	1 3/16"	150 ft.	5 mil	**39EN73**
Fluorescent Lime	1 3/16"	150 ft.	5 mil	**39EN79**
Fluorescent Orange	1 3/16"	150 ft.	5 mil	**9PWM5**
Fluorescent Pink	1 3/16"	150 ft.	5 mil	**9T646**
Fluorescent Red	1 3/16"	150 ft.	5 mil	**39EN75**
Green	1 3/16"	150 ft.	5 mil	**39EN78**
Yellow	1 3/16"	150 ft.	5 mil	**39EN77**

Color	Overall H	Item No.	Pkg. Qty.
Marking Flags with Wire Staff			
Orange	21"	**5MD29**	100
Pink	21"	**5MD30**	100
Lime	21"	**5MD31**	100


No. 1EKR9


No. 1EKR7


No. 33UF94


No. 3LWE4


No. 1EKR6

★GA GRAINGER APPROVED Annin FLAGMAKERS

Flags, Windsocks, Banner, and Pennants

Throwaway Warning Flags— Use to mark utility poles and rights of way, and to identify truck loads. Pkg. of 100.

Handheld Warning Flags— Fluorescent color provides high visibility. Reinforced to prevent ripping and tearing. Include 24" wooden dowel. No. 1EKR8 with plastic stay keeps the flag open.

Windsock Kits and Replacement Socks— Kits include a windsock and an aluminum mounting frame. Replacement windsocks are made of PVC and nylon for durability; color resists fading.

Oversize Load Banner—Message printed on one side with black letters. Constructed of vinyl coated 1000 denier polyester mesh fabric. Includes (6) grommets and (6) 40" ropes.

Colored Pennants—Sewn onto reinforced polypropylene cording.

Description	Color	H	W	Material	Brand	Item No.
Throwaway Warning Flag	Red	12"	12"	Vinyl	GA	**1EKR9**
	Red	16"	16"	Vinyl	GA	**1EKT1**
Handheld Warning Flag	Fluorescent Red	24"	18"	Vinyl	GA	**6FGK7**
	Fluorescent Orange	24"	18"	Vinyl	GA	**1EKR7**
	Fluorescent Orange	18"	18"	Vinyl Coated Mesh	GA	**3YWY4**
	Fluorescent Orange	24"	24"	Vinyl Coated Mesh	GA	**3YWZ1**
Handheld Warning Flag w/Stay	Fluorescent Orange	18"	18"	Vinyl	GA	**1EKR8**
Airfield Vehicle Safety Flag	Orange/White	36"	36"	200 Denier Nylon	Annin Flagmakers	**33UF94**
Windsock Kit	Orange	36"	10"	PVC-Lined Nylon	GA	**3LWE4**
	Orange	48"	18"	PVC-Lined Nylon	GA	**3LWE5**
	Orange	55"	13"	Polyester	GA	**5YGF1**
	Orange	96"	18"	PVC-Lined Nylon	GA	**3LWE6**
Replacement Windsock	Orange	36"	10"	PVC Covered Nylon	GA	**3LWE7**
	Orange	48"	18"	PVC Covered Nylon	GA	**3LWE8**
	Orange	55"	13"	Polyester	GA	**5YGF2**
	Orange	96"	18"	PVC Covered Nylon	GA	**3LWE9**
Oversize Load Banner	Yellow	18"	84"	Vinyl	GA	**52VP37**
Colored Pennants, 60 ft.	Red	—	9"	Vinyl	GA	**1EKR5**
	Orange/White	12"	9"	Vinyl	GA	**6FGK3**
	Red/White	12"	9"	Vinyl	GA	**6FGK4**
	Yellow	12"	9"	Vinyl	GA	**6FGK5**
	Multicolor	12"	9"	Vinyl	GA	**1EKR6**
Colored Pennants, 100 ft.	Red	12"	9"	Polyethylene	GA	**9WM99**
	Yellow	12"	9"	Polyethylene	GA	**8AE63**
	Multicolor	12"	9"	Polyethylene	GA	**8PDR9**

★GA GRAINGER APPROVED

Lucky Line®


No. 1ZBY5


No. 1ZBY6


No. 25DU62


No. 20KR27

Whistles and Lanyards

Whistles are made of high-impact ABS plastic. Lanyards are made of strong woven nylon and have snap hooks for whistles or keys. Metal swivel allows hook to lie flat against chest.

Description	Color	Brand	Item No.	Pkg. Qty.
Standard Whistle	Black	GA	**1ZBY5**	1
Horn Blast Whistle	Orange	GA	**1ZBY6**	1
Neck Lanyard, 20⅝"L	Black	GA	**25DU62**	10
Neck Lanyard, 21½"L	Blue	Lucky Line	**20KR27**	10



No. 3UTN8

GA GRAINGER APPROVED

Portable Barricades

Lightweight, modular polyethylene panels link together with snap-on hinges to create barriers of any size and shape; warn and help keep pedestrians out of hazardous areas. Yellow and black color with standard "Caution" symbol printed on each panel. Fold away for easy storage.

Description	Color	H	L	Item No.
2-Panel Barricade	Yellow	36"	6 ft.	**3UTN8**
3-Panel Barricade	Yellow	36"	9 ft.	**3UTN9**

GA GRAINGER APPROVED

Barricade System



Easily assembled with snap hinges. Folds for storage. Includes 4 polypropylene panels (32"W x 34½"H), 2 "Caution" signs, 2 "Confined Space" signs, and 4 orange and white reflective striped boards. Barricade Weight No. 6RRE1 (sold separately) offers additional panel security.

Description	Color	H	Item No.
Barricade System	Orange	36.61"	**6EGH1**
Barricade Weight, 16 lb.	Black	—	**6RRE1**



No. 22NY01



No. 33K166



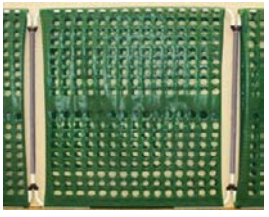
No. 22NY02

GA GRAINGER APPROVED

Portable Expanding Barricades

Lightweight, compact barricades expand to do the work of several conventional barricades. Include carrying handle for easy portability. No 33K166 links with other barriers for longer spans. 2 of the 4 wheels are lockable.

Description	Color	H	L	Item No.
Portable Barricades with Stationary Feet				
Steel Powder Coated Finish	Yellow/Black	37½"	136"	**22NY09**
Aluminum Powder Coated Finish	Yellow/Black	37½"	136"	**22NY01**
Aluminum Powder Coated Finish	Yellow/Black	48"	136"	**22NY03**
Aluminum Powder Coated Finish	Yellow/Black	37½"	181"	**22NY02**
Portable Barricade with 4 wheels				
Plastic	Yellow/Black	37"	132"	**33K166**
Accessories				
Locking Caster Feet, Pkg. of 2				**22NY07**
Flashing Lamp/Flag Holder				**22NY05**
Sign Hanging Bracket				**22NY04**
Wall Mounting Kit				**22NY08**
Locking Bar				**22NY06**



No. 26L003



No. 26K993

Cortina Safety Products

Modular Pedestrian and Barricade Systems

- Meet MUTCD

Constructed of durable polypropylene.

Modular Barricade System—Flexible modular system is easy to assemble with nothing but cable ties; no tools required. Can be easily transported from location to location.

Pedestrian P-Cade Barricade Kit System—Can be adapted to multiple applications. Includes 3 legs and 4 I-Beam boards with engineer-grade sheeting.

Color	H	W	L	Item No.
Modular Barrier System				
Green	48"	4"	48"	**26L003**
Pedestrian P-Cade Barricade Kit System				
Orange/White	36"	16"	72"	**26K993**
Pedestrian Barricade Leg Only				
White	36"	36"	36"	**20TP11**



PLASTICADE

ADA Pedestrian Barricades

Modular system features 2-pc. linking sections: a rugged polyethylene barricade top and 43-lb. self-weighted base that fit together securely. A straight barrier wall on the pedestrian side reduces tripping hazards. Each assembled section is 40"H x 43"L x 15¼"W, weighs 51 lb., and remains stable in windy conditions. Base has an integrated carrying handle. Assembly is fast and easy, and features a tamper-resistant system to link sections together. The system can be shaped to any layout. ADA Compliant.

Description	▶CHOOSE: Color	Item No.
Barricade Top Only	Orange, White	**H6507**
Barricade Top with Reflective Sheeting	Orange, White	**H6509**
Barricade Top with Base	Orange, White	**H6508**
Barricade Top with Reflective Sheeting and Base	Orange, White	**H6510**
Base, 43 lb.	Black	**20PF47**


No. 1EKT3


No. 1EKT4


No. 3UTY4


No. 1EKT6



No. 20PF67


No. 3LWG1


No. 1EKT5


No. 1EKT7


No. 1EKT8

Plastic Barricades, A-Frame/P-Cade Legs, and I-Beams

GA GRAINGER APPROVED

- Meet MUTCD and NCHRP 350, except Nos. 3YVX4, 20PF67, 20PF54, 3LUU8, and 1EKT5
- Nos. 13P868 and 13P869 are ADA Compliant to MUTCD

High-Intensity tape provides higher reflectivity than Engineer Grade.

Barricades—Used on highways and municipal roads, or as warning devices around potentially dangerous areas. Feature recessed and replaceable panels. Polypropylene construction. Accommodate flashing barricade lights, sold separately, this page.

Type 1—Single-striped panel has a 12" x 24" reflective top panel and a 4" x 24" nonreflective bottom panel.

Type 2—Two striped reflective panels are 8" x 24" on top and bottom.

Narrow Vertical Barricades—Easy to fold and transport.

Barricade Systems—All-plastic construction. For use in road closure situations where complete coverage is needed.

Type 3—Complete barricade system with three striped reflective panels, Nos. 6FGL0 and 6FGL1 8" x 48" and Nos. 3LWG1 8" x 96".

Barricade Accessories—No. 1EKT5 provides 4-lb. weight to barricade leg. No. 2KCX2 includes 2 arrow panels and hardware to convert a traffic barricade into a directional barricade.

A-Frame and P-Cade Legs—Used to protect workers in work zones and around manholes, and to cordon off restricted areas and parade routes. P-Cade Legs provide a continuous, obstruction-free guidance system. Lower rail will not trap canes. I-Beam is sold separately. An additional I-Beam can be mounted in the lower section of A-Frames for increased visibility. Weighted models include two 5-lb. inserts per leg.

I-Beams—Exterior-grade PVC provides year-round, all-weather durability.

Description	Tape Color	Frame Color	H	W	Panel L	Item No.
Barricades						
Engineer Grade						
Type 1	Orange/White	White	40"	24"	24"	**1EKT3**
High-Intensity						
Type 1	Orange/White	White	40"	24"	24"	**1EKV9**
Vinyl						
Type 1, P-Cade Legs	Orange/White	White	40"	40"	72"	**13P868**
Type 1, P-Cade Legs	Orange/White	White	40"	40"	96"	**13P869**
Engineer Grade						
Type 2	Orange/White	White	40"	24"	24"	**1EKT4**
Type 2, Sand Fillable Ballast	Orange/White	White	45"	24"	24"	**3UTY4**
High-Intensity						
Type 2	Orange/White	White	40"	24"	24"	**1EKW1**
Type 2, Sand Fillable Ballast	Orange/White	White	45"	24"	24"	**3UTY5**
Narrow Vertical Barricades						
Nonreflective						
Mowing	Orange/Black	Yellow	36"	24"	24"	**13P877**
School Crossing	Lime/Black	Yellow	45"	13"	—	**3YVX4**
Sidewalk Closed	Black/Yellow	White	44"	12"	—	**6FGK9**
Striped Panel, N-Cade Legs	Orange/White	White	44"	12½"	24"	**13P872**
Engineer Grade						
Striped Panel, N-Cade Legs	Orange/White	White	36"	12"	12"	**1EKT6**
Keep Left/with Arrow, A-Frame	White	White	45"	25"	24"	**20PF67**
Men Working, N-Cade Legs	White	White	45"	13"	12"	**20PF54**
Do Not Enter, N-Cade Legs	Yellow	Yellow	45"	13"	12"	**3LUU8**
Barricade Systems						
Type 3	Orange/White	White	66"	48"	—	**6FGL0**
Type 3	Orange/White	White	60"	96"	96"	**3LWG1**
High-Intensity						
Type 3	Orange/White	White	60"	48"	48"	**6FGL1**
Barricade Accessories						
Barricade Weight Ballast	—	Black	2"	2"	—	**1EKT5**
A-Frame Leg, Weighted	—	White	40½"	29"	—	**3LWE1**
P-Cade Leg	—	White	40½"	29"	—	**1EKT7**
I-Beam	—	White	8"	2"	60"	**3LWF7**
I-Beam	Orange/White	Orange	8"	2"	72"	**1EKT8**
I-Beam	Orange/White	Orange	8"	2"	60"	**3LWF8**

Flashing Barricade Lights

TAPCO Safe travels. ★ GA GRAINGER APPROVED Railhead GEAR

- Meet MUTC and ITE Specifications

Durable polycarbonate lenses with LED lamps. Light settings vary from steady burn to flashing to Off (see table). Photocell activates light from dusk to dawn and helps conserve battery power. Handle on No. 48TL08 makes it easy to move.

Power Source	Includes	Head Dia.	Color	Light Setting	Flashes/ Minute	Lamp Life	Brand	Item No.
Battery	(4) D Batteries	7"	Amber/ Yellow Case	Flashing, Off, Steady Burn	60 to 120	100,000 hr.	Tapco	**493Y04**
Battery	(4) D Batteries	7"	Amber/ Orange Case		60 to 120	100,000 hr.	Tapco	**493Y05**
Battery	(4) D Batteries	7"	Amber/ Gray Case		60 to 120	100,000 hr.	Tapco	**493Y06**
Solar	Mounting Bolt and Tool	7½"	Amber	Flashing, Steady Burn	60	60 hr.	GA	**12R462**
Solar	Mounting Bolt and Tool	7½"	Red		60	120 hr.	GA	**35T130**
Solar	Bolt and Switch Pin, LED Bulb, Ni-MH Battery	7½"	Amber	Flashing, Off	55	20,000 hr.	GA	**26K992**
Solar	Bolt and Switch Pin, LED Bulb	3 25/32"	Red		60	20,000 hr.	GA	**45EG65**
Solar	Battery	7"	Red	Flashing, Steady Burn	65	20,000 hr.	GA	**489N94**
Solar	Rechargeable Battery, Handle	7¼"	Blue	Flashing	60	43,800 hr.	Railhead Gear	**48TL08**


No. 493Y05


No. 48TL08


No. 35T130



No. 35KJ24 and No. 35KJ32 (Channelizer and Base Sold Separately)



No. 13P888

GA GRAINGER APPROVED

Channelizer Cones and Bases

High-Intensity tape provides higher reflectivity than Engineer Grade. Handle for easy movement and placement. Stackable for storage. Accept standard barricade lights.

Nos. 45YJ67 to 45YJ70: Slotted handle is ready for caution tape. Includes black plastic sand-fillable base.

Tape Material	No. of Reflective Stripes	Reflective Stripe H	Color	Tape Color	H	Mfr. Model	Item No.
Channelizer Cones							
None	—	—	Orange	—	36"	03-770-36-P	**35KJ29**
None	—	—	Fluorescent Lime	—	36"	03-770-36L-P	**35KJ28**
High-Intensity	2	(1) 4" and (1) 6"	Orange	Silver	36"	03-770-36-64OW	**35KJ25**
High-Intensity	2	(1) 4" and (1) 6"	Fluorescent Lime	Silver	36"	03-770-36L64	**35KJ24**
None	—	—	Orange	—	42"	03-770-42-P	**35KJ31**
None	—	—	Fluorescent Lime	—	42"	03-770-42L-P	**35KJ30**
High-Intensity	2	(1) 4" and (1) 6"	Orange	Silver	42"	03-770-42-64OW	**35KJ27**
High-Intensity	2	(1) 4" and (1) 6"	Fluorescent Lime	Silver	42"	03-770-42L64	**35KJ26**
Engineer Grade	2	(1) 4" and (1) 6"	Orange	White	42"	45YJ69	**45YJ69**
Engineer Grade	2	(1) 4" and (1) 6"	Yellow	White	42"	45YJ67	**45YJ67**
None	—	—	Orange	—	42"	45YJ68	**45YJ68**
None	—	—	Yellow	—	42"	45YJ70	**45YJ70**
High-Intensity	2	(1) 4" and (1) 6"	White	Silver	45"	03-750-64HWG	**26K996**
High-Intensity	2	(1) 4" and (1) 6"	Blue	Silver	45"	03-750-64HBG	**26K997**
High-Intensity	2	(1) 4" and (1) 6"	Yellow	Silver	45"	03-750-64HYG	**26K998**
High-Intensity	2	(1) 4" and (1) 6"	Orange	White	49"	03-750-64HI	**13P890**
Engineer Grade	4	4"	Orange	White	49"	03-750-4EG	**13P889**
Engineer Grade	4	6"	Orange	White	49"	03-750-6EG	**13P888**
High-Intensity	4	6"	Orange	White	49"	03-750-6HI	**13P891**
High-Intensity	4	6"	Orange	White	49"	03-750-6FP	**13P892**

For Use With	Weight	H	Mfr. Model	Item No.
Bases				
Use with 36"H Channelizers	10 lb.	2½"	03-770-5	**35KJ32**
Use with 36"H Channelizers	15 lb.	2½"	03-770-6	**35KJ33**
Use with 42, 45, and 49"H Channelizers	10 lb.	1½"	03-752-10	**13P907**
Use with 42, 45, and 49"H Channelizers	16 lb.	2"	03-752-16	**13P903**
Use with 42, 45, and 49"H Channelizers	30 lb.	3"	03-752-30	**13P908**



Nos. 13P897 and 13P905 (Channelizer and Base Sold Separately)

GA GRAINGER APPROVED

Vertical Panel Channelizers and Base

- Meet NCHRP 350

Oversize handle with comfort grip. Mounting receptacle for flashing light. High-Intensity tape provides higher reflectivity than Engineer Grade.

Tape Material	No. of Reflective Stripes	Reflective Stripe H	Color	Tape Color	H	Mfr. Model	Item No.
Vertical Panel Channelizers							
Engineer Grade	3	4	Orange	White	39½"	03-760-EG	**13P897**
High-Intensity	3	4	Orange	White	39½"	03-760-HI	**13P898**

For Use With	Wt.	H	Mfr. Model	Item No.
Base				
Use with Vertical Panel Channelizers	20 lb.	1"	03-760-20	**13P905**



No. 13P893

No. 3LWF1

GA GRAINGER APPROVED

Channelizer Drums and Bases

- Drums meet NCHRP 350

High-Intensity tape provides higher reflectivity than Engineer Grade. Drums stack easily with stepped sides to prevent sticking. Top handle has 2 bolt holes for 1 barricade light.

Tape Material	No. of Reflective Stripes	Reflective Stripe H	Color	Tape Color	H	Mfr. Model	Item No.
Channelizer Drums							
Engineer Grade	4	4"	Orange	White	41½"	03-780-4EG	**13P893**
Engineer Grade	4	6"	Orange	White	41½"	03-780-6EG	**13P894**
High-Intensity	4	4"	Orange	White	41½"	03-780-4HI	**13P895**
High-Intensity	4	6"	Orange	White	41½"	03-780-6HI	**13P896**
Channelizer Drum, Low Profile							
High-Intensity	4	4"	Orange	(2) White and (2) Orange	44¼"	03-755	**3LWF1**

For Use With	Wt.	H	Mfr. Model	Item No.
Bases				
Use with Channelizer Drums	22.5 lb.	3"	03-750-TR	**13P904**
Use with Low Profile Channelizer Drum	16 lb.	2"	03-732	**3LWF2**



No. 5AB26



No. 5AB29

EAGLE®

Collapsible Channelizers

- Meet MUTCD and NCHRP 350

Set up in seconds with a twist of the handle and fold flat when hit.

Legend	Material	H	Item No.
Caution	HDPE	42½"	**5AB26**
Ped-X-Ing	HDPE	42½"	**5AB29**



No. 3UTR5

GA GRAINGER APPROVED

Safety Barriers

Lightweight, polyethylene barriers are excellent for use in all public spaces. Each comes with 6 interchangeable messages: "Caution—Out Of Service," "Caution—Wet Floor," "Temporarily Closed," "Danger—Keep Out," "Cleaning In Progress," and "Caution—Work Area." Bright yellow color. Stack flat for easy storage. Individual units can be linked together; units with stand can also stand alone.

Description	H	W	Item No.
Police Officer-Shaped With Stand	41"	31"	**3UTR5**
Police Officer-Shaped Without Stand	41"	31"	**3UTR4**



No. 33L680



No. 33L677

GA GRAINGER APPROVED

Warning Posts, Chain, and Chain Links

Polyethylene posts are nonconductive and nonrusting. Chain Links are for indoor use only. Use to attach lengths of warning chain together or repair chain links.

Description	Color	H	Base Dia.	Item No.	Pkg. Qty.
Striped Barrier Post	Black/Yellow	41¼"	15.8"	**33L680**	1
Barrier Post	Yellow	41¼"	15.8"	**33L677**	1
2" Plastic Chain, 100 ft.	Yellow	—	—	**33L678**	1
2" Chain Links	Yellow	—	—	**33L679**	36

Traffic Cones

jbc working together

- Meet MUTCD

Durable and flexible PVC construction, won't fade or melt! Patented interlocking square base won't separate from body. Retroreflective cones: polyethylene retroreflective collar material is impact resistant.


No. 53WN64


No. 53WN66


No. 53WN60


No. 53WN49

Recessed Collar	Cone Color	No. of Reflective Stripes	Reflective Stripe H	Cone H	Base Dim./ Storage Size	Item No.
Retroreflective Collar						
No	Blue	2	(1) 4", (1) 6"	28"	14"	53WN59
No	Lime	1	6"	18"	10½"	53WN53
No	Lime	1	6"	28"	14"	53WN79
No	Orange	1	6"	12"	8⅝"	53WN50
No	Orange	1	6"	18"	10½"	53WN52
No	Orange	1	6"	28"	14⅛"	53WN56
Yes	Orange	1	6"	28"	14"	53WN62
Yes	Orange	1	6"	28"	14¾"	53WN68
No	Orange	2	(1) 4", (1) 6"	28"	14⅛"	53WN57
Yes	Orange	2	(1) 4", (1) 6"	28"	14"	53WN80
Yes	Orange	2	(1) 4", (1) 6"	28"	14⅛"	53WN83
Yes	Orange	1	6"	36"	14½"	53WN72
Yes	Orange	1	6"	36"	14¾"	53WN75
Yes	Orange	2	(1) 4", (1) 6"	36"	14½"	53WN84
Yes	Orange	2	(1) 4", (1) 6"	36"	14¾"	53WN85
Yes	Orange	2	(1) 4", (1) 6"	36"	17"	53WN86
No	Yellow	2	(1) 4", (1) 6"	28"	14"	53WN64
Retroreflective Collar, Slim						
Yes	Orange	1	6"	28"	14⅛"	53WN66
Standard						
No	Blue	—	—	28"	14"	53WN60
No	Lime	—	—	18"	10½"	53WN54
No	Lime	—	—	28"	14"	53WN61
Yes	Lime	—	—	36"	14½"	53WN73
Yes	Orange	—	—	12"	8⅝"	53WN49
No	Orange	—	—	18"	10½"	53WN51
No	Orange	—	—	28"	14⅛"	53WN55
No	Orange	—	—	28"	14"	53WN58
Yes	Orange	—	—	28"	14½"	53WN71
Yes	Orange	—	—	36"	14¾"	53WN74
Yes	Orange	—	—	36"	17"	53WN76
No	Yellow	—	—	28"	14"	53WN63
Standard Mini						
No	Orange	—	—	4"	3"	53WN78
Standard Slim						
No	Orange	—	—	28"	14⅛"	53WN65
No	Orange	—	—	28"	14⅛"	53WN69

Colored Traffic Cones

GA GRAINGER APPROVED

18"H cones are stackable for easy storage. Injection-molded polyethylene construction.



▶CHOOSE: Cone Color	Item No.
Blue, Green, Red, White, Yellow	H1545

GA GRAINGER APPROVED

Traffic Cones

- Meet MUTCD and NCHRP 350

Flexible, injection-molded PVC cones withstand high-speed impacts and snap back into shape. Stackable for easy storage. Lime color differentiates a work zone from an emergency zone.

Available in multiple styles:

Standard—Wide body with orange or fluorescent lime base.

Black Base—Wide body with black base.

Slim—Narrow, wind-resistant profile with orange base.

Recessed Collar—Wide, 1-pc. body with orange base. Easier stacking with no pinch points for collars.

Note: May not be approved for highway projects in all states.


No. 6FHA1


No. 6FHC3


No. 6FHA3


No. 6FGZ7

Recessed Collar	Cone Color	No. of Reflective Stripes	Reflective Stripe H	Cone H	Base Dim./ Storage Size	Item No.
Retroreflective Collar						
No	Fluorescent Lime	1	6"	18"	11"	6FHA6
No	Fluorescent Lime	2	(1) 4", (1) 6"	28"	15"	6FHA7
No	Fluorescent Lime	2	(1) 4", (1) 6"	36"	14"	6FHA8
No	Orange	1	6"	18"	11"	6FHA0
Yes	Orange	2	6"	18"	11"	6FHC5
No	Orange	2	(1) 4", (1) 6"	28"	15"	6FHA1
Yes	Orange	1	6"	28"	14½"	6FHC6
No	Orange	2	(1) 4", (1) 6"	36"	14"	6FHA2
Yes	Orange	2	(1) 4", (1) 6"	36"	14"	6FHC7
Retroreflective Collar, Black Base						
No	Orange	2	(1) 4", (1) 6"	6"	8"	6FGY9
No	Orange	2	(1) 4", (1) 6"	18"	11"	6FHC2
No	Orange	1	6"	28"	15"	6FHC3
No	Orange	2	(1) 4", (1) 6"	36"	14¾"	6FHC4
Retroreflective Collar, Slim						
No	Orange	1	6"	18"	11"	6FGZ4
No	Orange	2	(1) 4", (1) 6"	28"	13"	6FGZ5
No	Orange	2	(1) 4", (1) 6"	36"	13"	6FGZ6
Standard						
No	Fluorescent Lime	—	—	18"	11"	6FHA3
No	Fluorescent Lime	—	—	28"	15"	6FHA4
No	Fluorescent Lime	—	—	36"	14"	6FHA5
No	Orange	—	—	4"	4"	6FGY6
No	Orange	—	—	6"	6"	6FGY7
Yes	Orange	—	—	12"	8"	6FGY8
No	Orange	—	—	18"	10½"	6FGZ7
No	Orange	—	—	28"	15"	6FGZ8
No	Orange	—	—	36"	14"	6FGZ9
Standard, Black Base						
No	Orange	—	—	12"	8"	6FGZ0
No	Orange	—	—	18"	11"	6FHA9
No	Orange	—	—	28"	14"	6FHC0
No	Orange	—	—	36"	14¾"	6FHC1
Standard, Include Caution Wet Floor Legend						
No	Orange	—	—	18"	11"	6FHC8
Standard Slim						
No	Orange	—	—	18"	10½"	6FGZ1
No	Orange	—	—	28"	13"	6FGZ2
No	Orange	—	—	36"	13"	6FGZ3

No. 9XPY3 (Traffic Cones Sold Separately)



GA GRAINGER APPROVED

Traffic Cone Accessories

Traffic Cone Bar—1 19/32"-dia. PVC bar includes two rings to lay on top of cones. May be used with any size traffic cone, including 28" or 36" wide-body cones.

Cone Holder and Clip—Holder No. 1EKW2 attaches to vehicle bumper to hold and transport stacked 18" or 28" cones. Steel construction with enamel finish. Clip No. 6FGJ6 attaches barrier tape to cone, to quickly cordon off and secure areas.

Stabilizer Weights—Fit over cones for increased stability.

No. 1EKW2





No. 6FGL4

Traffic Cone Signs—ABS plastic signs easily attach to cones and open top delineators. 11"W x 13"H.

Reflective Cone Collar Kit—Vinyl collar slips over 28" cone. Kit includes three of each 4" and 6" cone collars.

Portable Traffic Cone Cart—Heavy-duty dolly easily transports traffic cones. Durable and stable construction.

Description	Color	Item No.
Reflective Telescoping Traffic Cone Bar		
5 to 9-ft.	Orange	9XPY3
Cone Holder and Clip		
Traffic Cone Holder, 22"H	Steel	1EKW2
Barrier Tape Clip, Pkg. of 5	White	6FGJ6
Stabilizer Weights		
5 lb. Fits 18" Cones	Black	6FGY4
6 lb. Fits 28 and 36" Cones	Black	6FGY3
Traffic Cone Signs		
Caution	Orange	2KCV3
Do Not Enter	Orange	2GWJ7
Handicapped Symbol	Blue	2KCV4
Lot Full	Orange	6FGL7
Men Working	Orange	6FGL2
No Parking Symbol	White	2KCV5
Reserved	Orange	6FGL3
Reversible Arrow	Orange	2GWJ8
Sidewalk Closed	Orange	6FGL4
Slow Traffic	Orange	2KCV6
Wet Paint	Orange	6FGL6
Workers Ahead	Orange	6FGL5
Reflective Cone Collar Kit		
Traffic Cone Collar Kit, Pkg. of 6	White	3LWF5
Portable Traffic Cone Cart		
45"L x 16"W x 14"H	Black	26K999



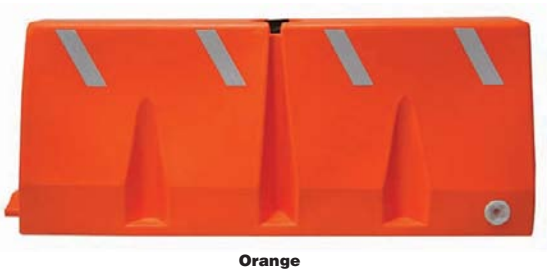
GA GRAINGER APPROVED

Delineator Posts and Flexible Delineators

Delineator Posts—Feature two 3" high-intensity prismatic collars on top of each post with a molded-in handle for easy movement. Permanent-mount post has mountable plastic base. Portable posts include a 10-lb. recycled rubber base.

Flexible Tubular Delineator Posts—Rugged delineators return upright after impact. Ideal for parking lots, pedestrian walkways, and temporary work zones.

Description	Delineator H	▶CHOOSE: Delineator Color	Item No.
Delineator Posts			
Permanent Mount	42"	Orange	**1EKU6**
Portable	45"	Blue, Green, Orange, White, Yellow	**G9281**
Flexible Tubular Delineator Posts			
Portable	36"	Black, Orange, White, Yellow	**G6577**
Portable	48"	Black, Orange, White, Yellow	**G6578**



Orange
No. J2254

GA GRAINGER APPROVED

Jersey Traffic Barriers

Fill versatile barriers with sand or water for stability. Empty barriers for easy transport. Interlocking joints let you connect multiple units to cover larger areas.

L	H	▶CHOOSE: Color	Item No.
58¼"	24½"	Orange, Spruce Green, White, Yellow	**J2254**
73¾"	34"		**J2255**



Orange
No.
H9744

GA GRAINGER APPROVED

Polyurethane Delineator Posts

Impact-resistant, surface-mount posts attach to bases with two quick-release pins. Reflective sheeting on posts is highly visible, day or night.

Delineator H	▶CHOOSE: Delineator Color	Item No.
Delineator Posts		
28"	Orange, White, Yellow	**H9743**
36"	Orange, White, Yellow	**H9744**
Adhesive Pads for Use with Delineator Posts, 8"L x 8"W		
3/16"	Black	**3UTX7**



No. 6G746



No. 6G755

BRADY

Marking Stakes

Mark underground pipelines, cables, etc. Reinforced polymer bends and will not break. Reflective sheeting on Nos. 6G746 and 6G747 makes stakes visible 24/7.

Color	H	W	Item No.
Reflective Marking Stakes			
Orange	66"	3¾"	**6G746**
Yellow	66"	3¾"	**6G747**
Nonreflective Marking Stakes			
Orange	66"	3¾"	**6G754**
Yellow	66"	3¾"	**6G755**



5-Post Delineator System

Cortina Safety Products

- Meets MUTCD

Portable delineator posts safely mark proper traffic flow for parking lots, roads, and school zones. System guides motorized and pedestrian traffic on roadways and paths.

Includes	Delineator Color	Delineator Tape Color	Base Dim.	Item No.
(30) Posts, (30) Bases, (6) 60 ft. Rolls of Flags	Orange	Silver	15 x 17"	**26K995**

GA GRAINGER APPROVED

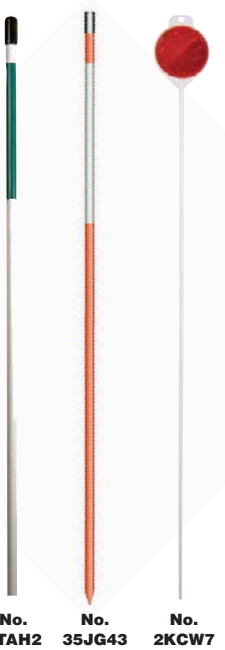
Reflective Markers

Property—Rigid fiberglass markers have 5" engineer-grade reflective tape. Pointed ends and removable PVC protective caps.

Hydrant—Fiberglass markers are easy to spot in poor weather conditions.

Driveway—ABS plastic housing holds 3"-dia. reflector.

H	Material	Color	Item No.	Pkg. Qty.
Property Markers				
48"	Fiberglass	Blue/White	**3TAH1**	12
48"	Fiberglass	Green/White	**3TAH2**	12
48"	Fiberglass	Orange/White	**3TAH3**	12
48"	Fiberglass	Red/White	**3TAH4**	12
48"	Fiberglass	Silver/White	**3TAH5**	12
48"	Fiberglass	Yellow/White	**3TAH6**	12
Hydrant Markers				
48"	Fiberglass	Hi-Viz Lime/White	**35JG42**	10
48"	Fiberglass	Hi-Viz Orange/White	**35JG43**	10
Driveway Markers				
48"	ABS Plastic	Blue/White	**2KCW6**	10
48"	ABS Plastic	Red/White	**2KCW7**	10
48"	ABS Plastic	Amber/White	**2KCW8**	10
48"	ABS Plastic	Clear/White	**2KCW9**	10



No. 3TAH2 | No. 35JG43 | No. 2KCW7

Safety and Security Mirror Selection Information

Choose a mirror with the lens and backing that suits your application.

MIRROR LENS

Acrylic: Lightweight, strong, and shatter-resistant. 20% brighter than glass.

Glass: Easiest to clean, highest reflectivity.

Polycarbonate: Strong, virtually unbreakable, and shatter-resistant.

Scratch-Resistant Acrylic: Special coating keeps surface smooth and resistant to scratching.

Stainless Steel: Highest corrosion resistance and superior strength.

MIRROR BACKINGS

Galvanized Steel: Weather-resistant. For indoor and outdoor use.

Hardboard: Strong. For indoor or covered outdoor use.

Plastic: Lightweight. For indoor or covered outdoor use.

Stainless Steel: Impact- and corrosion-resistant for extreme conditions.

Zinc: Chemical- and weather-resistant. For indoor and outdoor use.

★GA GRAINGER APPROVED

Convex Safety and Security Mirrors

▪ Every 1"-dia. of mirror provides 1-ft. viewing distance

Help increase aisle visibility, reduce blind spots, and prevent accidents at intersections. Adjustable assembly and heavy-gauge steel mounting bracket for easy adjustments. Mirrors with hardboard, plastic, and galvanized steel backing include aluminum trim. Rectangle mirrors include vinyl trim. Mirrors made of stainless steel have UV-resistant PVC trim.

Dim.	Indoor/ Outdoor Use	Rim Type	Item No.	
Acrylic Lens with Hardboard Backing				
12" dia.	Indoor	Aluminum	**3YRN2**	
12"H x 18"W	Indoor	Vinyl Coated Aluminum	**31AX36**	
15"H x 24"W	Indoor	Vinyl Coated Aluminum	**31AX37**	
18" dia.	Indoor	Aluminum	**1CYX5**	
18" dia.	Outdoor	Aluminum	**3YRR8**	
24"H x 36"W	Indoor	Vinyl Coated Aluminum	**31AX39**	
26" dia.	Indoor	Aluminum	**1CYX6**	*
26" dia.	Indoor	Aluminum	**3YRP1**	†
26" dia.	Outdoor	Aluminum	**3YRT3**	
26" dia. with Hi-Visibility Border	Indoor	Aluminum	**3TCT3**	
30" dia.	Indoor	Aluminum	**1CYX7**	
30" dia.	Outdoor	Aluminum	**3YRT7**	
36" dia.	Outdoor	Aluminum	**3YRU2**	
36" dia.	Indoor	Aluminum	**1CYX8**	
48" dia.	Indoor	Aluminum	**9T453**	
Acrylic Lens with Plastic Backing				
12"H x 18"W	Outdoor	Vinyl Coated Aluminum	**1CYZ1**	
18"H x 26"W	Outdoor	Vinyl Coated Aluminum	**1CYZ2**	
20"H x 30"W	Outdoor	Vinyl Coated Aluminum	**1CYZ3**	
24"H x 36"W	Outdoor	Vinyl Coated Aluminum	**1CYZ4**	
36" dia.	Outdoor	Aluminum	**38HX75**	*
36" dia.	Outdoor	Aluminum	**8EE98**	‡
48" dia.	Outdoor	Aluminum	**9PN60**	
Acrylic Lens with Galvanized Steel Backing				
12" dia.	Outdoor	Aluminum	**1CYX9**	
12"H x 18"W	Outdoor	Vinyl Coated Aluminum	**1CYZ5**	
18" dia.	Outdoor	Aluminum	**1CYY1**	
18"H x 26"W	Outdoor	Vinyl Coated Aluminum	**1CYZ6**	
20"H x 30"W	Outdoor	Aluminum	**1CYZ7**	
24"H x 36"W	Outdoor	Vinyl Coated Aluminum	**1CYZ8**	
26" dia.	Outdoor	Aluminum	**1CYY2**	
30" dia.	Outdoor	Aluminum	**1CYY3**	
36" dia.	Outdoor	Aluminum	**1CYY4**	

Dim.	Indoor/ Outdoor Use	Rim Type	Item No.
Acrylic Lens with Stainless Steel Backing			
36" dia.	Outdoor	Metal	**3LZP8**
Scratch Resistant Acrylic Lens with Plastic Backing			
18" dia.	Outdoor	Aluminum	**8AFY2**
26" dia.	Outdoor	Aluminum	**2GVT6**
30" dia.	Outdoor	ABS Plastic	**2GVT7**
36" dia.	Outdoor	Aluminum	**2GVT8**
48" dia.	Outdoor	Aluminum	**13W025**
Glass Lens with Plastic Backing			
20"H x 30"W	Outdoor	Vinyl Coated Aluminum	**8Y850**
36" dia.	Outdoor	Aluminum	**3LZX9**
Glass Lens with Hardboard Backing			
12" dia.	Indoor	Aluminum	**1CYY5**
18" dia.	Indoor	Aluminum	**1CYY6**
26" dia.	Indoor	Aluminum	**1CYY7**
30" dia.	Indoor	Aluminum	**1CYY8**
36" dia.	Indoor	Aluminum	**1CYY9**
Polycarbonate Lens with Plastic Backing			
12" dia.	Outdoor	Vinyl Coated Aluminum	**3LYG7**
18" dia.	Outdoor	Aluminum	**13W036**
26" dia.	Outdoor	Aluminum	**13W037**
30" dia.	Outdoor	Aluminum	**13W038**
36" dia.	Outdoor	Aluminum	**13W039**
Polycarbonate Lens with Hardboard Backing			
18" dia.	Indoor	Aluminum	**2GVT1**
26" dia.	Indoor	Aluminum	**2GVT2**
30" dia.	Indoor	Aluminum	**2GVT3**
36" dia.	Indoor	ABS Plastic	**2GVT4**
Stainless Steel Lens with Zinc Backing			
14" dia.	Outdoor	PVC	**2GVY7**
20" dia.	Outdoor	PVC	**2GVY8**
24" dia.	Outdoor	PVC	**3LZZ3**
32" dia.	Outdoor	PVC	**2GVZ1**
40" dia.	Outdoor	PVC	**2GVZ2**

** Includes mounting Z bracket. † Includes single-mounting bracket. ‡ Includes double-mounting bracket and hardware.*



No. 3YRN2



No. 1CYZ1

★GA GRAINGER APPROVED

Portable and Vehicle Safety Mirrors

Adaptable to a variety of applications, such as scanning aisles in warehouses and reducing blind spots while driving. Acrylic mirrors are for indoor use only.

Dim.	Lens Material	Backing	Item No.
Circular Magnetic Mount			
7" dia.	Acrylic	Plastic	**3LZW3**
12" dia.	Acrylic	Hardboard	**33HV63**
18" dia.	Acrylic	Hardboard	**3LZY6**
Circular with Flexible Goose Neck w/Clamp			
7" dia.	Acrylic	Plastic	**2GVZ4**
Circular with L Bracket			
6" dia.	Glass	Steel	**2GVZ3**
Circular with Swivel Mount and Z-Bracket			
8" dia.	Glass	Metal	**1CZB8**
Rectangular with Mounting Bracket and Hardware			
2½"H x 8"W	Stainless Steel	Metal	**1CZB7**



No. 1CZB8



No. 1CZB7

Dome Safety and Security Mirrors

GRAINGER APPROVED

▪ Every 1"-dia. of mirror provides 1-ft. viewing distance

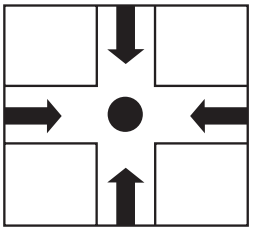
Help direct traffic and monitor hidden areas. Hi-Visibility domes have safety-stripe borders to make them stand out. All domes include mounting hardware.

Full-Dome—Provide a 360° view. Designed for use at 4-way intersections.

Half-Dome—Provide a 180° view. Designed for "T" intersections.

Quarter-Dome—Provide a 90° view. Designed for internal corners.



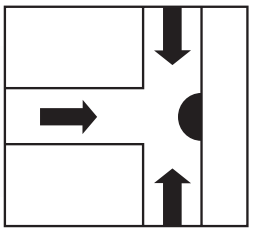


Full-Dome

Dia.	Rim Type	Approx. Viewing Distance	Item No.
Full-Dome Mirrors			
Acrylic Lens			
8"	Acrylic	8 ft.	1CZB9
18"	Acrylic	18 ft.	2GVX4
26"	Acrylic	400 sq. ft.	2WZA5
26"	Vinyl Coated Aluminum	1600 sq. ft.	45WD10
32"	Acrylic	450 sq. ft.	8ECR7
36"	Acrylic	36 ft.	13W060
36"	Vinyl Coated Aluminum	3050 sq. ft.	45WD11
48"	Acrylic	48 ft.	1WRL6
60"	No Rim	60 ft.	20LP22
Acrylic Lens/Hi-Visibility			
18"	Acrylic	18 ft.	5NAK4
26"	Acrylic	26 ft.	5NAK7

Dia.	Rim Type	Approx. Viewing Distance	Item No.
32"	Acrylic	32 ft.	5NAL0
36"	Acrylic	36 ft.	5NAL3
48"	Acrylic	48 ft.	5NAL6
Polycarbonate Lens			
18"	Polycarbonate	300 sq. ft.	33HV13
26"	Polycarbonate	400 sq. ft.	33HV15
32"	Polycarbonate	450 sq. ft.	3LYD6
36"	Polycarbonate	500 sq. ft.	33HV17
Scratch Resistant Acrylic Lens			
18"	Acrylic	300 sq. ft.	3LZH9
26"	Acrylic	400 sq. ft.	3LZJ4
32"	Acrylic	450 sq. ft.	3LYX4
36"	Acrylic	500 sq. ft.	3LZJ8
48"	Acrylic	48 ft.	2GVU4



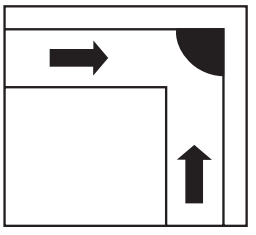


Half-Dome

Dia.	Rim Type	Approx. Viewing Distance	Item No.
Half-Dome Mirrors			
Acrylic Lens			
18"	Acrylic	18 ft.	2GVX8
18"	Vinyl Coated Aluminum	380 sq. ft.	45WD12
26"	Acrylic	26 ft.	2GVX9
26"	Vinyl Coated Aluminum	800 sq. ft.	45WD13
32"	No Rim	32 ft.	2GVY1
36"	Acrylic	36 ft.	2GVY2
48"	Acrylic	48 ft.	13W064
Acrylic Lens/Hi-Visibility			
18"	Acrylic	18 ft.	5NAK3
26"	Acrylic	26 ft.	5NAK6

Dia.	Rim Type	Approx. Viewing Distance	Item No.
32"	Acrylic	32 ft.	5NAK9
36"	Acrylic	36 ft.	5NAL2
48"	Acrylic	48 ft.	5NAL5
Polycarbonate Lens			
18"	Polycarbonate	18 ft.	3LYE5
26"	Acrylic	26 ft.	3LYE9
36"	ABS Plastic	36 ft.	13W033
Scratch Resistant Acrylic Lens			
18"	Acrylic	18 ft.	2GVU5
26"	No Rim	26 ft.	2GVU6
32"	Acrylic	32 ft.	3LYW9
36"	Acrylic	36 ft.	2GVU8





Quarter-Dome

Dia.	Rim Type	Approx. Viewing Distance	Item No.
Quarter-Dome Mirrors			
Acrylic Lens			
18"	Acrylic	18 ft.	2GVY3
26"	Acrylic	26 ft.	2GVY4
32"	No Rim	32 ft.	2GVY5
36"	Acrylic	36 ft.	2GVY6
48"	Acrylic	48 ft.	13W067

Dia.	Rim Type	Approx. Viewing Distance	Item No.
Acrylic Lens/Hi-Visibility			
18"	Acrylic	18 ft.	5NAK2
26"	Acrylic	26 ft.	5NAK5
Scratch Resistant Acrylic Lens			
18"	Acrylic	18 ft.	2GVU9
26"	ABS Plastic	26 ft.	2GVX1



No. 33HV51

GRAINGER APPROVED

Drop-In Full-Dome Mirrors and Panels

Lightweight acrylic mirrors provide a full reflective hemisphere for large area surveillance needs. No. 3YRL4 has a mirrored panel. No. 33HV51 has a white panel.

Fits Panel Size	Dia.	Item No.
2 ft. x 2 ft.	22"	3YRL4
2 ft. x 4 ft.	22"	33HV51



No. 1CYZ9

GRAINGER APPROVED

Flat Safety and Security Mirrors

▪ Corrosion-resistant

Designed for a variety of applications, including industrial, retail, and institutional use.

H	W	Item No.
Acrylic Lens/Galvanized Steel Backing/Swivel Mount		
12"	12"	1CYZ9
16"	12"	1CZA1
24"	16"	1CZA2
36"	24"	1CZA3

H	W	Item No.
Stainless Steel Lens/Galvanized Steel Backing/Keyhole Mount		
18"	12"	13V992
24"	18"	13V994
36"	24"	13V996
Stainless Steel Lens/Galvanized Steel Backing/Swivel Mount		
12"	12"	1CZA9
16"	12"	1CZB1
18"	14"	1CZB2
30"	20"	1CZB4

USA SIGN

Roll-Up Signs

- Meet MUTCD requirements

Standard orange roll-up signs alert drivers and pedestrians of hazards. Nonreflective signs are designed for daytime use only; reflective signs provide a highly visible warning and are for day or evening use. All signs are made from durable vinyl and feature standard fiberglass battens with lock pockets. They fit federally approved sign stands. Include storage bag.

Sign Legend	▶CHOOSE: Background Color	Item No.
Accident Ahead	Black/Fluorescent Orange	G7231
Detour	Black/Fluorescent Orange, Black/Orange	G7233
Detour Ahead	Black/Fluorescent Orange, Black/Orange	G7234
Left Lane Closed Ahead	Black/Fluorescent Orange	G7238
Left Lane Ends Symbol	Black/Fluorescent Orange, Black/Orange	G7239
Men Working	Black/Red-Orange Fluorescent	9CFK5
Men Working Symbol	Black/Fluorescent Orange, Black/Orange	G7241
One Lane Road Ahead	Black/Fluorescent Orange	G7242
Right Lane Closed Ahead	Black/Fluorescent Orange, Black/Orange	G7243
Right Lane Ends Symbol	Black/Fluorescent Orange, Black/Orange	G7244
Road Closed Ahead	Black/Red-Orange Fluorescent	8Z804
Utility Work Ahead	Black/Fluorescent Orange	G7248
Utility Work Ahead	Black/Red-Orange Fluorescent	8UN42
Work Area Ahead	Black/Red-Orange Fluorescent	8P341

Description	Material	36" x 36" Item No.	48" x 48" Item No.
Roll-Up Signs	Mesh	*	*
	Vinyl	*	*
	Reflective R34	*	*
	Reflective SuperBrite	*	*
	Reflective Diamond Grade	*	*
	Reflective Marathon	*	*

** Select sign legend, material, and size.*



No. 9CFK5


Black/ Fluorescent Orange No. G7241



Black/Fluorescent Orange No. G7248

Roll-Up and Rigid Sign Stands

In-Ground—Constructed of heavy-duty galvanized steel. Cross piece at bottom enables pushing into the ground by foot. Includes steel spring clips for a secure hold.

Stacker™—Wide 1-pc. rubber base with drop-in sign attachment provides wind stability. Stackable for bulk storage and transport.

DynaLite™—Four aluminum legs with extensions create an X footprint. Legs adjust for uneven terrain. Positive locking sign attachment.

DynaFlex™—Displays signs 12" off the ground. Heavy-duty springs provide stability in windy conditions.

UniFlex™—For long-term display in all weather conditions, including wind. Vertical spring prevents overturns. Adjustable aluminum legs with extensions provide a wide base. Sign locks into place. Kick-release legs.

Tripod—Three 1"-dia., orange powder-coated galvanized steel tubular legs deploy easily. No. 1UBP1 is for low- to medium-wind conditions. No. 23J508 is a heavy-duty sign stand with telescoping mast and flag holders.

TwinFlex™—Heavy-duty steel coil springs for stability in windy conditions. Foot-actuated leg releases with 2 locking positions for stability on uneven surfaces. Steel and aluminum construction.

Description	H	W	Sign Base Color	Item No.
Roll-Up Sign Stands				
In-Ground	56"	12"	Silver	23J507
Stacker™	3"	20"	Black	1UBN9
DynaLite™	24"	7"	Silver	1UBP2
DynaFlex™	57"	92"	Silver	23J509
UniFlex™	30"	7"	Silver	1UBP3
Roll-Up and Rigid Sign Stand				
Tripod	—	—	Orange	1UBP1
Rigid Sign Stands				
Tripod	48"	57"	Orange	23J508
TwinFlex™, Steel Legs	36"	84"	Orange	23J511
TwinFlex™, Aluminum Legs	36"	84"	Orange	23J514


No. 1UBN9


No. 23J509


No. 1UBP1

LED Traffic Signs

TAPCO Safe travels.

- Meet MUTCD requirements

BlinkerSign™ aluminum signs feature 3M™ Diamond Grade™ DG3 reflective sheeting with high-visibility Luxeon® LED lights. Include graffiti-resistant overlay. Solar-powered models include battery charger and solar panel installation tool; can operate for up to 30 days without sunlight on a full charge.

H	W	STOP Item No.	SCHOOL CROSSING Item No.	PEDESTRIAN CROSSING Item No.
Solar Powered				
30"	30"	3YPF8	3YPG3	3YPG7
36"	36"	3YPF9	—	9FDE9
110VAC				
24"	24"	23L589	—	—
30"	30"	3YPG1	—	3YPG9
36"	36"	—	—	3YPH1



No. 3YPF8

Cortina Safety Products Group

Portable Stop Signs



No. 2KCV7

Quickly and easily set up a temporary 2-way or 4-way stop sign. Include one white HDPE delineator post, two interlocking 18" ABS plastic stop signs, and one 15-lb. recycled rubber base. Overall height: 56".

Sign Sheeting	Item No.
Nonreflective	2KCV7
High-Intensity Prismatic	3LWE3



No. 14Z558

Cortina Safety Products Group
BRADY

2-Sided Traffic Control Signs

- Meet MUTCD requirements, except Nos. 1EKR2, 1EKR3, 1EKV3, and 14Z558

2-sided paddles. Nos. 1EKR3, 1EKR4, and 1EKV3 have 2-pc., 81" high-visibility orange handle.

Legend	Sign Sheeting	Brand	Item No.
Plastic with 9" Polygrip Handle, 18" x 18"			
Stop/Slow	Nonreflective	Cortina	1EKR2
	Engineering Grade	Cortina	6FGK0
	High-Intensity Prismatic	Cortina	6FGK2
Stop/Stop	Engineering Grade	Cortina	6FGJ9
	High-Intensity Prismatic	Cortina	6FGK1
Plastic with 2-pc. Plastic Handle, 24" x 24"			
Stop/Slow	Nonreflective	Cortina	6AFT7
	Engineering Grade	Cortina	1EKR3
	High-Intensity Prismatic	Cortina	1EKR4
	Diamond Grade	Cortina	1EKV3
Aluminum with 9" Aluminum Handle, 18" x 18"			
Stop/Slow	Nonreflective	Brady	14Z558



No. 1EKR3


No. 3PNJ8


No. 39F192


No. 39F186

DESIGNOVATIONS, INC.
Developing Products Differentiated by Design

BRADY

TAPCO
Safe travels.

U-Channel Sign Posts

Composite Sign Posts—Strong, lightweight, and maintenance-free. Closed-profile posts are pointed for easy installation. Use open-profile posts for signs up to 12" x 18".

Steel Sign Posts—U-channel posts are rib backed; made from high-carbon billet steel. Prepunched ⅜" mounting holes on 1" centers accommodate most standard traffic signs. Mounting hardware sold separately.

U-Channel Profile	L	W	D	Color	Finish	Brand	Item No.
Composite Sign Posts							
Closed	72"	2"	1"	Green	Clear Veil	Designovations Inc.	**3PNJ4**
Open	72"	2"	1"	White	Clear Veil	Designovations Inc.	**6XDJ8**
Closed	84"	2"	1"	Yellow	Clear Veil	Designovations Inc.	**6XDK4**
Closed	96"	2"	1"	Green	Clear Veil	Designovations Inc.	**3PNJ8**
Open	96"	2"	1"	Green	Clear Veil	Designovations Inc.	**6XDK1**
Open	96"	2"	1"	White	Clear Veil	Designovations Inc.	**6XDK2**
Open	96"	—	—	Green	Natural	Brady	**4ZH34**
Open	96"	—	—	White	Natural	Brady	**4ZH32**
Closed	96"	—	—	Green	Natural	Brady	**4ZH35**
Closed	96"	—	—	White	Natural	Brady	**4ZH33**
Steel Sign Posts							
Open	10 ft.	3 3/16"	1 15/32"	Silver	Galvanized	Tapco	**4LNJ9**
Open	10 ft.	3 3/16"	1 15/32"	Green	Powder Coated	Tapco	**6G763**
Open	12 ft.	3 3/16"	1 15/32"	Silver	Galvanized	Tapco	**39F190**
Open	12 ft.	3 3/16"	1 15/32"	Green	Powder Coated	Tapco	**6G764**
Open	72"	2¼"	⅞"	Silver	Galvanized	Tapco	**39F192**
Open	72"	3 3/16"	1 15/32"	Silver	Galvanized	Tapco	**39F189**
Open	72"	2¼"	⅞"	Green	Powder Coated	Tapco	**39F186**
Open	72"	3 3/16"	1 15/32"	Green	Powder Coated	Tapco	**3JY32**
Open	84"	2¼"	⅞"	Silver	Galvanized	Tapco	**4LNK4**
Open	84"	3 3/16"	1 15/32"	Silver	Galvanized	Tapco	**39F191**
Open	84"	2¼"	⅞"	Green	Powder Coated	Tapco	**4LNK3**
Open	84"	3 3/16"	1 15/32"	Green	Powder Coated	Tapco	**39F188**
Open	96"	2¼"	⅞"	Silver	Galvanized	Tapco	**39F193**
Open	96"	3 3/16"	1 15/32"	Silver	Galvanized	Tapco	**4LNK2**
Open	96"	2¼"	⅞"	Green	Powder Coated	Tapco	**39F187**
Open	96"	3 3/16"	1 15/32"	Green	Powder Coated	Tapco	**6T437**


No. 6XDL0


No. 8LV68

L	W	D	Color	Finish	Brand	Item No.
Composite Sign Posts						
96"	2"	2"	White	Clear Veil	Designovations Inc.	**6XDL0**
96"	2"	2"	Green	Clear Veil	Designovations Inc.	**3PNH5**
Steel Sign Posts						
96"	2"	2"	Silver	Galvanized	Tapco	**8LV68**
10 ft.	2"	2"	Silver	Galvanized	Tapco	**8LV69**

DESIGNOVATIONS, INC.
Developing Products Differentiated by Design

TAPCO
Safe travels.

Square Sign Posts

Composite posts are accepted by FHWA when used with breakaway sign post couplers Nos. 6VKK7 or 6XDH8 (sold separately). High-tensile galvanized steel posts are finished with zinc and acrylic to resist corrosion.


No. 35ZP21


No. 488F11


No. 1DYJ3


No. 1DYJ5

TAPCO
Safe travels.

BRADY

Round Sign Posts

Steel Posts—High-tensile galvanized steel finished with zinc and acrylic to resist corrosion.

Portable Posts—Cast-iron with enamel finish. No. 1VC44 holds signs measuring 18" x 18", 24" x 18", or 24" x 24". PVC/rubber posts include breakaway feature. Nos. 1DYJ3 and 1DYJ4 accommodate signs up to 18" x 12" or 24" x 24"; mounting hardware included.

Post with Flexible Spring Base—Polypropylene construction endures collisions. Square base mounts to concrete or asphalt. Includes mounting hardware and post installation kit.

L	W	Base Dia.	Color	Finish	Brand	Item No.
Steel Sign Posts						
12 ft.	2⅜"	2⅜"	Silver	Galvanized	Tapco	**35ZP21**
10 ft.	2⅜"	2⅜"	Silver	Galvanized	Tapco	**9A908**
Cast-Iron Portable Sign Posts						
48"	—	14"	Black	Baked Enamel	Brady	**1VC44**
48"	14½"	14"	Black	Baked Enamel	Lyle	**488F11**
PVC/Rubber Portable Sign Posts						
60"	19"	19"	White	Natural	Brady	**1DYJ3**
60"	19"	19"	White	Natural	Brady	**1DYJ4**
Polypropylene Sign Post with Flexible Spring Base						
60"	8"	—	White	Natural	Brady	**1DYJ5**


No. 9ANX7


No. 6VEF7


No. 1DYJ6


No. 4VL34

DESIGNOVATIONS, INC.
Developing Products Differentiated by Design

GA GRAINGER APPROVED

TAPCO
Safe travels.

BRADY

Sign Post Accessories

BREAKAWAY SIGN POST COUPLERS

Quickly repair sign posts. Breakaway couplers withstand winds up to 120 mph.

MANUAL FENCE POST DRIVER AND CAP

Post Driver No. 9ANX7, with solid steel head, drives posts up to 3½" dia. 28¼"L with 19"L handles. Drive Cap No. 3PNJ2 features high-strength alloy steel casting.

SIGN POST ANCHORS

V-Loc® Breakaway anchors mount flush to ground. Reusable after knockdowns.

V-Loc® Breakaway— Anchors mount flush to the ground, eliminating above-ground extensions and reducing tort liability. Reusable after knockdowns.

SIGN MOUNTING HARDWARE

Bracket Assembly No. 1DYJ6 consists of two 48" stainless straps to mount signs.

Tamperproof Hardware No. 4ZH36 prevents sign theft. Set includes 2 bolts, 2 washers, and nuts. For use with U-Channel and L-Square Posts.

Single-Sided Round Bracket Set No. 9FPR4 includes 2 brackets with all necessary bolts and nuts.

Double-Sided Sign Bracket No. 8LV70 secures 2 traffic signs to opposite sides of a round post. Includes all necessary hardware and fasteners.

Street Sign Cross-Piece Bracket No. 3PNG7 provides support for larger street name signs. Includes a set of stainless steel allen set screws.

SIGN POST BASES

Use with U-channel, 2⅜" O.D. round, or 2" square post.

Description	Color	Brand	Item No.
Breakaway Sign Post Couplers			
For 2-, 3-, 4-lb. U-Channel	Silver	Designovations Inc.	**6XDJ5**
For 2" Square Sign Post and 2¼" Square Anchor Post	Silver	Designovations Inc.	**6VKK7**
For 2-, 3-, 4-lb. U-Channel Surface Mount	Silver	Designovations Inc.	**6XDJ6**
For 2" Square Surface Mount	Silver	Designovations Inc.	**6XDH8**
For 2⅜" O.D. Round Surface Mount	Silver	Designovations Inc.	**6XDJ3**
Manual Fence Post Drivers			
3 ½" I.D. Steel Tube Driver	Black/Gray	GA	**9ANX7**
Manual Fence Post Driver and Cap			
Drive Cap	—	Tapco	**3PNJ2**
Sign Post Anchors			
V-Loc® Breakaway			
For Concrete Installation with #2 or #3 U-Channel Posts	Brown	Tapco	**6VEF7**
For Soil or Asphalt Installation with 2" x 2" Square Posts	—	Tapco	**3PND8**
Sign Mounting Hardware			
Bracket Assembly for 4" to 12" Dia. Posts	Silver	Tapco	**1DYJ6**
Tamperproof Hardware	Silver	Tapco	**4ZH36**
Single-Sided Round Bracket for 2⅜" Pole	Silver	Tapco	**9FPR4**
Double-Sided Sign Bracket for 2⅜" Pole	Silver or Black	Tapco	**8LV70**
Street Sign Cross Piece Bracket	—	Tapco	**3PNG7**
Sign Post Bases			
Surface-Mount 15" dia., Cast-Aluminum	Silver	Brady	**4VL34**
Aluminum, 15"	Silver	Tapco	**3YVU7**
Concrete, 18"	Gray	Tapco	**9RX15**

Traffic Signs

- HIP meets MUTCD standards

Signs are available in aluminum and recycled aluminum materials, with engineering grade (EG) or high-intensity prismatic (HIP) reflective sheeting. HIP sheeting provides higher reflectivity than EG sheeting. Recycled signs are made from 90% recycled aluminum (80% postconsumer), which exceeds EPA procurement guidelines and supports LEED certification.



No. D9793
18" x 30"
R5-1A
24" x 36"



No. D9706
24" x 24"



R1-6A
No. D9766
36" x 12"



No. D9719
24" x 24"
30" x 30"



No. H1915
24" x 18"



No. H1914
24" x 18"



No. D9752
24" x 24"
W42-8
30" x 30"



W10-1
No. D9728
30" x 30"



No. D9616
30" x 30"



No. D9765
18" x 12"
24" x 18"



No. D9757
24" x 18"



No. D9758
18" x 12"
24" x 18"



No. D9711
24" x 18"



No. D9712
24" x 18"



No. D9713
24" x 18"



No. D9633
18" x 18"



R7-201
No. D9637
18" x 18"
18" x 12"



R7-230
No. 12R236
18" x 12"



R7-1D
No. D9681
18" x 12"



R7-1R
No. D9683
18" x 12"



No. D9679
18" x 12"



No. D9678
18" x 12"



No. D9676
18" x 12"



No. D9686
18" x 12"



No. D4018
18" x 12"



No. D9726
18" x 12"



No. D4016
12" x 18"



No. D9724
18" x 12"



P-3
No. D9667
18" x 12"



No. D9735
18" x 12"



R7-332
No. D9618
18" x 12"



R7-341
No. D9628
18" x 12"



No. D9788
18" x 12"



No. H1932
18" x 12"



No. D9737
18" x 12"



R7-8
No. D9648
18" x 12"



No. D9736
18" x 12"



G-53
No. D9644
18" x 12"



No. D9716
18" x 12"



R7-8B
No. D9787
6" x 12"

No. D9643
18" x 12"

No. D9585
6" x 12"

Safety Sign Information

Prevent injuries and reduce downtime with safety and informational signs that put important information at the point of need. Choose from OSHA, ANSI, or blank formats and a variety of materials.

Signs can be customized for your specific needs online at the Grainger Custom Product Center. Go to grainger.com/content/custom-product-center.

COMPLIANCE

OSHA 1910.145 and ANSI Z535 require that safety signs be used to identify and define specific hazards that, without identification, could lead to property damage or accidental injury of workers and/or the public.

MATERIAL TYPES

(A)-Aluminum—Abrasion- and chemical-resistant. For indoor and outdoor use.

(F)-Fiberglass—Longest-lasting material. Great for outdoors or harsh environments.

(P)-Plastic—Signs have a clear protective coat; recommended for temporary or light use.

(S)-Self-Adhesive Vinyl—Signs are high-gloss, durable, flexible vinyl suited for indoor/outdoor use.

Glow-in-the-Dark—Illuminating material absorbs light and is immediately visible in the event of a power outage.

Caution Signs

Condor

Signs identify potential hazards that may result in severe but not irreversible damage or injury. Available in (A) aluminum, (F) fiberglass, (P) plastic, and (S) self-adhesive polyester.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. J6945
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6962
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6946
A, F (10" x 14", 7" x 10")
P (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. K1879
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 3" x 5", 5" x 7", 7" x 10")



No. J6948
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6949
A, F, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. K0276
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. K2001
A, P (10" x 7", 14" x 10")
F (10" x 7", 14" x 10", 20" x 14")
S (10" x 7", 14" x 10", 7" x 5")



No. K2002
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. K2006
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")
F (7" x 10")



No. K0377
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. K1887
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 3" x 5", 5" x 7", 7" x 10")



No. K0282
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")



No. J6957
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")



No. K2003
A, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. K2004
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6960
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. K0106
A, P (10" x 7", 10" x 14", 14" x 10", 7" x 10")
F (10" x 7", 14" x 10")
S (10" x 7", 10" x 14", 14" x 10", 5" x 3½", 7" x 5", 7" x 10")



No. J6963
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6964
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")
F (7" x 10")



No. J6965
F (10" x 10")
S (10" x 10", 14" x 10")
A, P (10" x 14", 7" x 10")



No. J6966
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



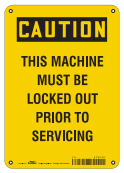
No. J6967
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")



No. J6968
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")
F (7" x 10")



No. J6969
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6970
A, F, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 5" x 3½", 7" x 5")



No. J6971
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6972
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6973
A, F, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. J6974
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6975
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")

Find more Safety Sign Compliance and Material Type information on page 1918.

Danger Signs

Condor

Signs indicate an immediate hazard capable of producing death or irreversible damage or injury. Available in (A) aluminum, (F) fiberglass, (P) plastic, and (S) self-adhesive polyester.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. J6910
A, F, P, S (10" x 14")



No. J6911
A, F, P, S (7" x 10")



No. J6912
A, F, P, S (10" x 14")



No. J6913
S (5" x 7", 7" x 10")
A, F, P (7" x 10")



No. J6914
A, F, P, S (10" x 14")



No. J6915
A, F, P, S (10" x 14", 7" x 10")



No. J6916
A, F, P, S (10" x 14", 7" x 10")



No. J6917
A, P (10" x 7", 14" x 10")
F (10" x 7", 14" x 10", 20" x 14")
S (10" x 7", 14" x 10", 7" x 5")



No. J6918
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6919
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6920
S (3½" x 5", 10" x 14", 14" x 20", 5" x 7", 7" x 10")
A, F, P (10" x 14", 14" x 20", 7" x 10")



No. J6921
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6922
A, P (10" x 14", 18" x 24", 24" x 36", 7" x 10")
F (10" x 14", 7" x 10")
S (10" x 14", 18" x 24", 24" x 36", 5" x 7", 7" x 10")



No. J6923
S (3½" x 5", 10" x 14", 7" x 10")
A, P (10" x 14", 7" x 10")
F (10" x 14")



No. J6924
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6925
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 3" x 5", 5" x 7", 7" x 10")



No. J6926
A, P (10" x 14", 24" x 36", 7" x 10")
F (10" x 14", 7" x 10")
S (10" x 14", 24" x 36", 5" x 7", 7" x 10")



No. J6927
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6928
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6929
A, F (10" x 14", 7" x 10")
P (10" x 14", 24" x 36", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6930
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6931
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6932
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")



No. J6933
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")
F (14" x 20")



No. J6934
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6935
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 3" x 5", 5" x 7", 7" x 10")



No. J6936
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6937
A, F (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")
P (10" x 14", 24" x 36", 7" x 10")



No. J6938
A, P (10" x 7", 14" x 10")
F (10" x 7", 14" x 10", 20" x 14")
S (10" x 7", 14" x 10", 7" x 5")



No. J6939
A, F, P (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 14" x 20", 5" x 7", 7" x 10")



No. J6940
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6941
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6942
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6943
S (3½" x 5", 10" x 14", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6944
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")

Information and Notice Signs

Signs provide general information to provide guidance and direction. Available in (A) aluminum, (F) fiberglass, (P) plastic, and (S) self-adhesive polyester.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. 471T98
A (10" x 7")



No. J6977
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6981
A, F, P, S (10" x 14", 7" x 10")



No. 471U83
A (7" x 10")



No. J6979
A, P (10" x 7", 14" x 10")
F (10" x 7", 14" x 10", 20" x 14")
S (10" x 7", 14" x 10", 7" x 5")



No. J6980
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J9330
A (14" x 20")



No. J6982
S (3½" x 5", 10" x 14", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J6983
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6984
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7040
A, P, S (10" x 14", 24" x 36", 7" x 10")
F (10" x 14", 7" x 10")



No. J6985
A, F, S, P (10" x 14", 7" x 10")



No. J6986
A, F, S, P (10" x 14", 7" x 10")



No. 465N80
A (7" x 5")



No. J7049
A, P (10" x 7", 12" x 9", 14" x 10")
S (10" x 7", 12" x 9", 14" x 10", 7" x 5")
F (12" x 9", 14" x 10")



No. J6987
A, F, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. J6990
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6991
A, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. J6988
A, P (10" x 7", 14" x 10")
F (10" x 7")
S (10" x 7", 14" x 10", 7" x 5")



No. J6989
A, P, S (10" x 14", 7" x 10")
F (7" x 10")



No. J6992
A, F (10" x 14", 7" x 10")
P (10" x 14", 24" x 36", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



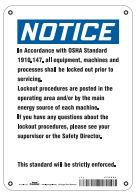
No. J6993
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6994
A, F, P, S (10" x 14", 7" x 10")



No. J6995
A (7" x 10")



No. J6996
A (10" x 7", 10" x 14", 14" x 10", 20" x 14")
F, P (10" x 7", 10" x 14", 14" x 10", 20" x 14", 7" x 10")
S (10" x 7", 10" x 14", 14" x 10", 20" x 14", 5" x 7", 7" x 10")



No. J6997
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6998
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J6999
A, F, P, S (10" x 14", 7" x 10")



No. J7000
A, F, P, S (10" x 14", 7" x 10")



No. 473L17
A (7" x 10")



No. J7002
A, P (10" x 7", 14" x 10", 20" x 14")
F (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 20" x 14", 7" x 5")



No. J7003
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7172
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. K1131
P (14" x 10")



No. J7004
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")

Find more Safety Sign Compliance and Material Type information on page 1918.

Condor

Facility Safety Signs

Signs indicate general rules related to health, first aid, medical equipment, sanitation, housekeeping, and safety. Available in (A) aluminum, (F) fiberglass, (P) plastic, and (S) self-adhesive polyester.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. J7005
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7006
A, F, P, S (10" x 14", 7" x 10")



No. J7007
A, F, P (10" x 7", 14" x 10")
S (10" x 7", 14" x 10", 7" x 5")



No. J7008
A, P (10" x 14", 7" x 10")
F, S (10" x 14", 5" x 14", 7" x 10")



No. J7009
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 7", 7" x 10")
F (10" x 14", 7" x 7")



No. J7010
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7011
A, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7012
A, P (10" x 14", 7" x 10")
F (10" x 14")
S (10" x 14", 5" x 7", 7" x 10")



No. J7013
A, F, P (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 14" x 20", 5" x 7", 7" x 10")



No. J7014
A, P (10" x 7", 14" x 10", 20" x 14", 7" x 5")
F (10" x 7", 14" x 10", 20" x 14")
S (10" x 7", 14" x 10", 20" x 14", 5" x 3½", 7" x 5")



No. J7015
A, P (10" x 14", 7" x 10")
F (10" x 14", 14" x 20", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7016
S (3½" x 5", 10" x 14", 5" x 7", 7" x 10")
A, F, P (10" x 14", 7" x 10")



No. J7017
A, P (10" x 14", 14" x 20", 7" x 10")
F (10" x 14", 14" x 20")
S (10" x 14", 14" x 20", 5" x 7", 7" x 10")



No. J7018
A, F, S, P (10" x 14", 7" x 10")



No. J7022
A, F, P, S (10" x 14", 14" x 20", 18" x 18", 7" x 10")



No. J7024
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7025
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7026
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7027
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 3" x 5", 5" x 7", 7" x 10")



No. J7028
A, F, P, S (10" x 14", 7" x 10")



No. J7029
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7030
A, P (10" x 14", 14" x 20", 7" x 10")
F (10" x 14", 7" x 10")
S (10" x 14", 14" x 20", 5" x 7", 7" x 10")



No. J7031
A, P (10" x 14", 14" x 20", 7" x 10")
F (10" x 14", 7" x 10")
S (10" x 14", 14" x 20", 5" x 7", 7" x 10")



No. J7032
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7033
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7034
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. 451N92
P (10" x 14")



No. J7036
A, F, P (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7037
A, P (10" x 14", 7" x 10")
F (10" x 14")
S (10" x 14", 5" x 7", 7" x 10")

GA GRAINGER APPROVED

Condor

Social Distancing Signs

Adhesive-mount vinyl social distancing signs provide instructions for maintaining a proper physical distance from others.

Note: More sizes and styles are available; go to grainger.com and search for Social Distancing Signs.



No. 56JR55



No. 56JU61



No. 56JR65



No. 56JR70



No. 56JU11



No. 56JR58



No. 56JU55



No. 56JR79

Legend	Background Color	H	W	Brand	Item No.
Always Maintain 6 ft. Working Distance	Yellow	8 in	8 in	GA	**56JR62**
Always Maintain 6 ft. Working Distance	Yellow	17 in	17 in	GA	**56JR55**
Attention; For the safety and health of our customers and employees; this facility practices social distancing; 6 ft.; Please maintain distance between yourself and others. We appreciate your cooperation!	White	10 in	7 in	Condor	**56JU61**
Maintain 6 ft. Distance	Blue	4 in	10 in	GA	**56JR77**
Maintain 6 ft. Distance	Green	4 in	10 in	GA	**56JR78**
Maintain 6 ft. Distance	Yellow	8 in	8 in	GA	**56JR65**
Maintain 6 ft. Distance - Play It Safe-Stay Healthy	Blue	6 in	24 in	GA	**56JR69**

Legend	Background Color	H	W	Brand	Item No.
Maintain 6 ft. Distance - Play It Safe-Stay Healthy	Green	6 in	24 in	GA	**56JR70**
Notice Practice Social Distancing	Blue/White	7 in	10 in	GA	**56JU11**
Please Maintain 6 ft. Distance - One Way	Blue	8 in	8 in	GA	**56JR58**
Safety First - Customers & Employees - Social Distancing	White	10 in	7 in	Condor	**56JU79**
Social Distance Maintain 6 ft.	White	7 in	10 in	Condor	**56JU55**
Social Distance Maintain 6 ft.	White	10 in	7 in	Condor	**56JU49**
Social Distance Maintain 6 ft.	White	14 in	10 in	Condor	**56JU52**
While Waiting Stay 6 ft. Apart	Blue	4 in	10 in	GA	**56JR79**

Find more Safety Sign Compliance and Material Type information on page 1918.

Exit and Fire Signs

Condor

Signs provide critical safety and evacuation information. Photoluminescent signs help guide the way during power outages or in low-light conditions. 10+ hr. signs exceed ASTM E 2072-00 standards. Signs are available in (A) Aluminum, (F) Fiberglass, (P) Plastic, and (S) Self-Adhesive Polyester. For more Glow-in-the-Dark options, visit Grainger.com®.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. J7038
P, S (3.5" x 10", 5" x 14")



No. J7041
P, S (3.5" x 10", 5" x 14")



No. J7039
A, P, S (10" x 14", 7" x 10")



No. J7040
A, P, S (10" x 14", 24" x 36", 7" x 10")
F (10" x 14", 7" x 10")



No. J7042
S, P (10" x 7", 14" x 10")



No. J7047
A, P, S (10" x 7", 14" x 10")



No. J7046
A, P, S (10" x 7", 14" x 10")



No. J7045
S, P (10" x 14", 7" x 10")



No. J7052
A, P, S (10" x 14", 7" x 10")



No. J7048
A, P, S (10" x 14", 3.5" x 14", 7" x 10")



No. J7053
A, P, S (7" x 10")



No. J7057
A, P, S (7" x 10")



No. J7049
A, P (10" x 7", 12" x 9", 14" x 10")
S (10" x 7", 12" x 9", 14" x 10", 7" x 5")
F (12" x 9", 14" x 10")



No. J7050
F (14" x 3½", 24" x 4")
S (14" x 3½", 14" x 5", 18" x 4")
A, P (14" x 5", 18" x 4")



No. K2114
S (12" x 4", 14" x 4", 14" x 5", 18" x 4", 24" x 4")
P (12" x 4", 14" x 5", 18" x 4")
A (18" x 4")



No. J7051
A, P, S (10" x 7", 14" x 10")



No. J7054
A, P, S (14" x 5", 24" x 4")
F (24" x 4")



No. J7055
A, P, S (10" x 14", 5" x 7", 7" x 10")



No. K2119
S, P (10" x 14", 5" x 7", 7" x 10")



No. J7056
A, P, S (3½" x 10", 5" x 14")



No. J7058
A, P, S (3½" x 10", 5" x 14")

OSHA Reflective Signs

Signs are made with engineer-grade reflective materials that heighten visibility and help reduce costly accidents, to create safer work environments and reduce downtime. Aluminum signs exceed EPA procurement requirements for recycled postconsumer aluminum content.

Signs are available in (A) Aluminum and (S) Self-Adhesive.



No. J2683
A (10" x 7", 14" x 10")
S (7" x 5", 10" x 7", 14" x 10")



No. J2687
A, S (7" x 10", 10" x 14")



No. J2709
S (10" x 7", 14" x 10")



No. J2680
A, S (7" x 10", 10" x 14")



No. J2698
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2708
S (10" x 7", 14" x 10")



No. J2679
A, S (10" x 7", 14" x 10")



No. J2706
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2697
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2693
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2692
A (10" x 7", 14" x 10")
S (7" x 5", 10" x 7", 14" x 10")



No. J2696
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2686
A (10" x 7", 14" x 10")
S (7" x 5", 10" x 7", 14" x 10")



No. J2716
S (7" x 10", 10" x 14")



No. J2703
A (10" x 7", 14" x 10")
S (7" x 5", 10" x 7", 14" x 10")



No. J2688
A, S (10" x 7", 14" x 10")



No. J2717
S (10" x 7", 14" x 10")



No. J2691
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")



No. J2695
A (7" x 10", 10" x 14")
S (5" x 7", 7" x 10", 10" x 14")

No. J2682
A, S (7" x 10", 10" x 14")

No. J2704
A (10" x 7", 14" x 10")
S (7" x 5", 10" x 7", 14" x 10")

No. 24WY29
S (7" x 10")

No. 34MT09
A (7" x 10")

Glow-in-the-Dark Exit Signs

GRAINGER APPROVED

- Meet UL 924 Standards

Nontoxic, nonelectric, nonradioactive, and recyclable. ABS plastic construction with photoluminescent panel that glows for 50+ hours. Durable signs are explosionproof. LEED points qualified. 7"H letters. Include mounting bracket and self-sticking pop-out chevron arrows. Available in 50- or 100-ft. viewing distance.

▶CHOOSE: Color	H	W	Item No.
50-Ft. Viewing Distance			
Single-Sided			
Black, Green, Red	8 ¾ in	15 ⅜ in	**D6991**
White Frame with Green Outline, White Frame with Red Outline	8 ¾ in	15 ⅜ in	**D6995**
Single-Sided, Metal			
Green, Red, White	8"	15"	**E6709**
Green, Red, White	8"	15"	**E6710**
Single-Sided, Printed Letters			
Green, Red	7 ½ in	13 in	**E6712**
Single-Sided, Letters with Bracket			
Green, Red	7 ½ in	13 in	**E6713**

▶CHOOSE: Color	H	W	Item No.
Double-Sided			
Black, Green, Red	8 ¾ in	15 ⅜ in	**D6992**
White Frame with Green Outline, White Frame with Red Outline	8 ¾ in	15 ⅜ in	**D6996**
Double-Sided, Metal			
Black, Green, Red, White	8"	15"	**E6711**
100-Ft. Viewing Distance			
Single-Sided			
Black, Green, Red	8 ⅝ in	15 ⅞ in	**D6993**
Double-Sided			
Black, Green, Red	8 ⅝ in	15 ⅞ in	**D6994**



Red
No. D6993

Glow-in-the-Dark Exit Signs

BRADY

- Meet OSHA 29 CFR 1910

Nonelectric, nontoxic, and nonradioactive. Photoluminescent legend glows for 30 continuous hours. Framed signs have 7"H letters, a colored anodized steel enclosure, and plastic frame. Include mounting bracket. Frameless signs are printed on vinyl film plastic and are visible from 50 ft. away. 6"H letters. Self-sticking arrows included. LEED points qualified.

▶CHOOSE: Color	H	W	Item No.
Framed Wall-Mounted Exit Signs			
White, Red, Silver	8¼"	15¼"	**D6986**
Black, Green	8 ¼ in	15 ¼ in	**D6986**
Framed Single-Sided Exit Signs			
Black, Green, Red, Silver, White	8¼"	15¼"	**D6987**
Framed Double-Sided Exit Signs			
Green, Red, Silver, White	8¼"	15¼"	**D6988**
Frameless Exit Signs			
Red, Green	8½"	15"	**D6989**
Extra Bracket For Single-and Double-Sided Exit Signs			
Black	—	4"	**8URR2**
Green	—	4 in	**3DVY8**



Black
No. D6986

Glow-in-the-Dark Exit Signs

SAFE GLOW

- Meet UL 924 Standards, except G5731, G5735, and G5737

Designed for upscale interiors; the beveled front panel and polished aluminum back plate deliver a rich and elegant look. No electricity, batteries, or maintenance needed. 50-ft. viewing distance and LEED points qualified. Require 5 foot-candle of LED or fluorescent light. Suitable for high- or low-level installation. Mounting hardware included. Ceiling mount hardware brackets may be used for top, bottom, or side mounting.

Description	▶CHOOSE: Color	H	W	Item No.
Single-Sided, Non-Directional				
Ceiling Mount				
Exit	Green, Red	9 1⁄32"	12 5⁄32"	**G5734**
Not An Exit		9 1⁄32"	12 5⁄32"	**G5735**
T-Bar Mount				
Exit	Green, Red	9 1⁄32"	12 5⁄32"	**G5736**
Not An Exit		9 1⁄32"	12 5⁄32"	**G5737**

Description	▶CHOOSE: Color	H	W	Item No.
Wall Mount				
Exit	Green, Red	9 1⁄32"	12 5⁄32"	**G5730**
Not An Exit		9 1⁄32"	12 5⁄32"	**G5731**
Single-Sided				
Ceiling Mount				
Exit with Left Arrow	Green, Red	9 1⁄32"	14 15⁄32"	**G5739**
Exit with Right Arrow		9 1⁄32"	14 15⁄32"	**G5740**
T-Bar Mount				
Exit with Left Arrow	Green, Red	9 1⁄32"	14 15⁄32"	**G5741**
Exit with Right Arrow		9½"	14⅝"	**G5742**
Wall Mount				
Exit with Left Arrow	Green, Red	9 1⁄32"	14 15⁄32"	**G5732**
Exit with Right Arrow		9 1⁄32"	14 15⁄32"	**G5733**
Single-Sided, Bi-Directional				
Ceiling Mount				
Exit with Arrows	Green, Red	9 1⁄32"	16¾"	**G5743**
T-Bar Mount				
Exit with Arrows	Green, Red	9 1⁄32"	16¾"	**G5744**
Wall Mount				
Exit with Arrows	Green, Red	9 1⁄32"	16¾"	**G5738**



Green
No. G5738

Description	▶CHOOSE: Color	H	W	Item No.
Double-Sided, Bi-Directional				
Surface Mount				
Exit with Arrows	Green, Red	9 1⁄32"	16¾"	**G5745**
Exit with Arrows		9 1⁄32"	16¾"	**G5747**
T-Bar Mount				
Exit with Arrows	Green, Red	9 1⁄32"	16¾"	**G5746**
Exit with Arrows		9 1⁄32"	16¾"	**G5748**

Emergency Light Stations

CYALUME Technologies

Help provide dependable light during power outages. Designed to hold 10" yellow SnapLight® light sticks that glow for 4 hr. and are visible up to 1 mi. in fog or smoke. Photoluminescent label on front cover helps to locate station. Wall mountable.

LightStation® Models 4 and 10—Blast- and fire-resistant case. All SnapLight® sticks stored in a station are activated when the front cover is pulled open. Ideal for small spaces.

LightStation® Model 20—Heavy-duty molded plastic case. 1 SnapLight® stick stored in a station is activated when the front cover is pulled open. Ideal for large common areas.

Description	H	W	D	Item No.
LightStation® Model 4				
Filled, Includes 8 SnapLights	14½"	3⅝"	1 5⁄16"	**8MMG9**
Unfilled, Holds 4 SnapLights	14½"	3⅝"	1 5⁄16"	**9NNW5**
LightStation® Model 10				
Filled, Includes 20 SnapLights	15"	10⅜"	1 5⁄16"	**8MLF9**
Unfilled, Holds 10 SnapLights	15"	10⅜"	1 5⁄16"	**8A037**
LightStation® Model 20				
Filled, Includes 40 SnapLights	14"	10¼"	4½"	**8TEC5**
Unfilled, Holds 20 SnapLights	14"	10¼"	4½"	**8MLG0**
LightStation® Refills				
SnapLight™, Pkg. of 40	—	—	—	**8VMD2**
SnapLight™, Pkg. of 12	—	—	—	**8MLG1**



No. 8MMG9


Open
No. 8TEC5



Closed
No. 8TEC5

Recycled Safety Signs

Available in (A) Aluminum, (P) Plastic, and (S) Self-Adhesive Polystyrene. Aluminum signs contain a minimum 90% recycled content, polystyrene has a minimum 70% recycled content.

Notes: Signs are arranged alphabetically by header, and then by lower legend text.



No. J7190
A, S (10" x 14", 7" x 10")



No. J7193
A, S (10" x 14", 7" x 10")



No. J7173
A, S (10" x 14", 7" x 10")



No. J7174
A, S (10" x 14", 7" x 10")



No. J7204
A, S (10" x 14", 7" x 10")



No. J7176
A, S (10" x 14", 7" x 10")



No. J7177
A, S (10" x 14", 7" x 10")



No. J7179
A, S (10" x 14", 7" x 10")



No. J7186
A, S (10" x 14", 7" x 10")



No. J2682
A, S (10" x 14", 7" x 10")



No. J7187
P, S, A (10" x 14", 7" x 10")



No. J7188
P (10" x 14", 7" x 10")
S, A (7" x 10")



No. J2688
A, S (10" x 7", 14" x 10")



No. J7189
P, S, A (10" x 14", 7" x 10")



No. J7194
A, S (10" x 14", 7" x 10")



No. 34JH97
A (10" x 14")



No. J2693
A (10" x 14", 7" x 10")
S (10" x 14", 5" x 7", 7" x 10")



No. J7180
A, S (10" x 14", 7" x 10")



No. J7181
A, S (10" x 14", 7" x 10")



No. J7182
A, S (10" x 14", 7" x 10")



No. J7183
A (10" x 14", 7" x 10")



No. J7185
S, A (10" x 14", 7" x 10")



No. J7178
A, S (10" x 14", 7" x 10")



No. J7197
A, S (10" x 14", 7" x 10")



No. J7199
A, S (10" x 14", 7" x 10")



No. J7175
A, S (10" x 14", 7" x 10")



No. J7184
A, S (10" x 14", 7" x 10")



No. J7205
A, S (10" x 14", 7" x 10")

Recycled Danger Signs

Danger signs indicate an immediate hazard capable of producing death or irreversible damage or injury. Available in three recycled materials: (A) Aluminum, (P) Plastic, or (S) Self-Adhesive Polystyrene. All products support LEED certification. Aluminum and plastic materials are UL-E validated as made from 70% (A) or 90% (P) postconsumer recycled content.

Note: Signs are arranged alphabetically by header, and then by lower legend text.



No. 24WY18
S (10" x 14")



No. J2701
A, S (10" x 14", 7" x 10")



No. J7191
A (10" x 14", 7" x 10")
S (10" x 14")



No. J7192
A, S (10" x 14", 7" x 10")



No. J7195
A, S (10" x 14")



No. J7196
A, P (10" x 14", 7" x 10")



No. J7198
A, S (10" x 14", 7" x 10")



No. J2690
S (10" x 14")



No. J7200
A, S (10" x 14", 7" x 10")



No. J7201
S (10" x 14", 7" x 10")
P (7" x 10")



No. J7202
A, P (10" x 14", 7" x 10")



No. J7203
A (10" x 14")
P (10" x 14", 7" x 10")

Hi-Visibility Dimensional Facility Safety Signs

Condor

High-impact plastic signs have messages on both sides to help personnel and emergency responders quickly find the way out or locate equipment. V-shape signs project at a 45° angle, L-shape signs at a 90° angle. Flanged edges have predrilled holes for mounting to walls and columns.

Note: Signs are arranged alphabetically by legend text.



No. 480Y21
(6" x 8½")



No. 480Y26
(6" x 8½")



No. 480W40
(8" x 8")



No. 480W45
(8" x 8")



No. 480Y25
(6" x 8½")



No. 480W44
(8" x 8")



No. 480Y07
(6" x 8½")



No. 480W26
(8" x 8")



No. 480Z66
(6" x 8½")



No. 480X84
(8" x 8")



No. 480Y09
(6" x 8½")



No. 480Y10
(12" x 14")



No. 480W28
(8" x 8")



No. 480W29
(12" x 9")



No. 480Y15
(18" x 7½")



No. 480W34
(18" x 4")



No. 480Z15
(6" x 8½")



No. 480X33
(8" x 8")



No. 480Z35
(6" x 8½")



No. 480X53
(8" x 8")



No. 480Z19
(6" x 8½")



No. 480X37
(8" x 8")



No. 480X58
(12" x 9")



No. 480Z40
(12" x 14")



No. 480Z21
(12" x 14")



No. 480X39
(12" x 9")



No. 480Z25
(18" x 7½")



No. 480Z26
(24" x 7½")



No. 480X43
(18" x 4")



No. 480X44
(24" x 4")



No. 480Y33
(6" x 8½")



No. 480W52
(8" x 8")



No. 480Z84
(6" x 8½")



No. 480Y03
(8" x 8")



No. 480Y91
(6" x 8½")



No. 480X10
(8" x 8")



No. 480Y20
(18" x 7½")



No. 480W39
(18" x 4")



No. 480Y83
(6" x 8½")



No. 480X02
(8" x 8")

No. 480Y86
(8" x 18")

Hi-Visibility Dimensional Signs

Projecting wall signs increase visibility of important information. Predrilled for easy mounting with included mounting pads. 3-Sided signs offer 180° visibility. UL-E validated as made with minimum 70% postconsumer recycled content.

Legend	H	W	Item No.
3-Sided			
AED	10"	8¼"	**460N42**
Eye Wash	10"	8¼"	**460N40**
Hand Wash Station	10"	7"	**484M94**
3-Sided, Glow-in-the-Dark			
First Aid	10"	17½"	**460N49**
"V" Style			
Emergency Shut-Off	6"	7½"	**460L87**
Fire Blanket	6"	7½"	**460L76**
Fire Extinguisher	6"	7½"	**460L40**
Restricted Area No Entry	6"	7½"	**460L59**
"L" Style			
Fire Extinguisher	8"	8"	**460M84**
Not An Exit	8"	8"	**460M65**
Restrooms	8"	8"	**460M60**

No. 460N40

No. 460L40



No. 486G62



No. 486G58



No. 486G53



No. 483U09



No. 486G73



No. 486G84



No. 486G60



No. 483U16



No. 486G55


No. 486G52



No. 486G80



No. 486G83

Condor

Braille Identification Signs

Rigid ABS plastic signs with Grade 2 braille characters comply with the Americans with Disabilities Act. Signs include double-faced mounting tape.

Legend	Legend/Background Color	H	W	Item No.
Elevator	White/Black	8"	8"	486G61
Elevator	White/Brown	8"	8"	486G62
Emergency Exit	White/Brown	2"	8"	486G58
Entrance with Wheelchair Symbol	White/Black	8"	8"	486G53
Entrance with Wheelchair Symbol	White/Brown	8"	8"	486G54
Exit	White/Black	2"	8"	483U09
Exit	White/Brown	2"	8"	486G57
Men	White/Brown	2"	8"	486G67
Men with Wheelchair Symbol	White/Black	8"	8"	486G73
Men	White/Black	8"	8"	486G76
Men with Wheelchair Symbol	White/Brown	8"	8"	486G81
Men with Wheelchair Symbol	White/Blue	10"	11"	486G84
Men	White/Blue	10"	11"	486G85
No Smoking	White/Brown	8"	8"	486G60
Restroom	White/Black	2"	8"	486G71
Restroom with Wheelchair Symbol	White/Blue, White	12"	12"	483U15
Restroom	White/Blue, White	12"	12"	483U16
Restroom	White/Black	8"	8"	486G78
Stairway	White/Black	8"	8"	486G55
Stairway	White/Brown	8"	8"	486G56
Wheelchair Symbol	White/Black	6"	6"	486G52
Women	White/Brown	2"	8"	486G70
Women with Wheelchair Symbol	White/Black	8"	8"	486G74
Women	White/Black	8"	8"	486G77
Women with Wheelchair Symbol	White/Brown	8"	8"	486G80
Women	White/Black	12"	12"	486G69
Women with Wheelchair Symbol	White/Blue	13"	13"	486G82
Women	White/Blue	12"	12"	486G83



No. 483U12



No. 486G66



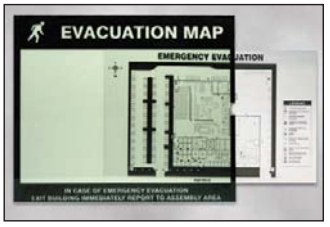
No. 483U13

All Gender Restroom Signs

Condor

Injection-molded, ⅛"-thick plastic construction with 1/32" raised Grade 2 tactile Braille. Double-faced foam tape included for installation. Meet ADA.

Legend	Legend/Background Color	H	W	Item No.
All Gender Restroom	White/Black	9"	6"	483U12
All Gender Restroom	White/Blue	9"	6"	483U14
All Gender Restrooms	White/Black	3"	6"	486G66
All Gender Restrooms	White/Blue	3"	6"	486G86
Gender Neutral	White/Black	8"	8"	486G79
Gender Neutral	White/Blue	8"	8"	483U13



No. 3UVK8



No. 14Z543

BRADY
ACCUFORM

Evacuation Map Holders

Holders accommodate custom evacuation maps, allowing building occupants to identify exit procedures in an emergency. Holders with photoluminescent back help ensure that maps are visible in any light. Use clear transparency film to self-print map inserts for Accuform holders.

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Evacuation Map Holders with Clear Back				
Fits 8½" x 11" Map	Brady	45381	14Z542	1
Fits 11" x 17" Map	Brady	102852	14Z546	1
Evacuation Map Holders with Photoluminescent Back				
Fits 8½" x 11" Map	Accuform	DTA202	3UVK8	1
Fits 8½" x 11" Map	Brady	102851	14Z543	1
Fits 11" x 17" Map	Accuform	DTA204	3UVL4	1
Fits 11" x 17" Map	Brady	102853	14Z545	1
Transparency Film Inserts				
For Map Holder No. 3UVK8	Accuform	DTA213	3YVZ5	2
For Map Holder No. 3UVL4	Accuform	DTA215	3UVL9	2


No. 6E356


No. 3ZDU1

Mounting Tape

BRADY
MASTER MAGNETICS, INC. THE MAGNET SOURCE

Double-sided tape mounts signs on irregular surfaces. White polyethylene foam with high-tack rubber adhesive. Magnetic tape is great for mounting signs and labels to a magnetically receptive surface.

Description	Brand	W	L	Item No.
Double-Sided				
Roll-Mounted	Brady	¾"	108 ft.	14Z539
Roll-Mounted	Brady	1"	108 ft.	6E356
Card-Mounted (4 Pcs. per Card)	Brady	¾"	4½"	5T160
Magnetic				
Adhesive-Backed	Master Magnetics	¼"	50 ft.	3NJX1
Adhesive-Backed	Master Magnetics	½"	50 ft.	3ZDU1
Adhesive-Backed	Master Magnetics	¾"	50 ft.	3NJX2
Adhesive-Backed	Master Magnetics	1"	50 ft.	3NJX3
Adhesive-Backed	Master Magnetics	2"	50 ft.	3NJX4
Adhesive-Backed	Master Magnetics	3"	50 ft.	3NJX5

Find more Printers, Label Makers, and Accessories on pages 367 to 373.

Neo4 and VnM®4 Label and Sign Printers

Fast, easy-to-use, stand-alone label and sign makers with built-in templates help you produce a variety of informational, regulatory, standard, and custom compliant safety message signs. They need no computer to produce a wide variety of labels and signs. Expand your choices with No. 36UT94 computer-based VnM Label Direct Software, sold separately. A separate GHS Software Package is available as a free download from vnmsignmaker.com.

Include four 25-ft. rolls of starter tapes and a black starter ink roll.

Neo4 Label and Sign Printer—Creates shelf and floor labels quick and easy. Cost-effective thermal transfer printer prints and cuts 1" to 4"W signs, labels, and bar codes for facilities with low-to-medium usage requirements. Great for keeping safety compliant when printing OSHA/ANSI or 5S signs and labels. UL Listed.

Cobra Systems, Inc.

VnM®4 Desktop Label Maker—Fast and easy-to-use, PC-free thermal transfer printer prints 5" per sec. Prints 1" to 4"W safety labels on demand from 8 standard templates, including HazCom, facility, pipe markers, and bar codes. Delivers fade-resistant labels and signs for GHS (Globally Harmonized System). Use alone or with a PC. UL Listed.

VnM Label Direct PC Software—Design, print, and save your most-used labels with this Windows® computer software for the Neo4, VnM4, and VnM8 label and sign makers. Reinforce messages and your branding with important safety symbols and images. Use database connectivity to boost larger label runs.



Neo4 Printer
No. 36UU66



VnM®4 Printer
No. 36UT27

Description	Operation Requirement	Max. Print Speed	Printer Display	Item No.
Desktop Label Printer Kits				
Neo4 Printer	PC Required	4.0 in./sec.	None	**36UU66**
VnM®4 Printer	Stand Alone or PC Printing	7.0 in./sec.	LCD	**36UT27**
VnM Label Direct PC Software				
For Neo4, VnM®4 and VnM®8 Printers	—	—	—	**36UT94**
VnM®4 Accessories				
Travel Case	—	—	—	**36UT62**

▶CHOOSE: Color	Printer Series Compatability	W	L	Item No.
Neo4 and VnM®4 Printer Accessories				
1-Color Print Ribbon				
Black, Blue, Green, Red	VnM4	4⅓₂"	984 ft.	**J2296**
White	VnM4	4⅓₂"	600 ft.	**36UU10**
1-Color Print Ribbon for Reflective Tape				
White	VnM4	4⅓₂"	984 ft.	**36UU11**
Vinyl Tape, Indoor/Outdoor				
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	VnM4, Neo4	1"	150 ft.	**J2288**
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	VnM4, Neo4	2"	150 ft.	**J2290**
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	VnM4, Neo4	3"	150 ft.	**J2292**
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	VnM4, Neo4	4"	150 ft.	**J2294**
Reflective Vinyl Tape, Indoor				
Black	VnM4, Neo4	1"	75 ft.	**J1687**
GHS Label Rolls				
White	VnM4, Neo4	2"	45 ft.	**J5801**
White	VnM4, Neo4	6"	130 ft.	**J5802**



1-Color Print Ribbon, Red
No. J2296



GHS Label Roll
No. J5801

VnM®8 Desktop Sign Maker

Create low-cost, 4" to 9"W, high-impact signs. Fast, easy-to-use, stand-alone sign maker has 8 built-in templates including arc flash, hazardous waste, pipe markers, ANSI signs, and text-only headers. No computer is needed. UL Listed.

Use No. 36UT94 computer-based VnM Label Direct Software, sold separately, to expand your sign making capability. A separate GHS Software Package is available as a free download from vnmsignmaker.com.

Cobra Systems, Inc.

VnM Label Direct PC Software—Helps reinforce messages and your branding with important safety symbols and images. Design, print, and save your most-used labels with this Windows® computer software for the Neo4, VnM4, and VnM8 label and sign makers. Larger label runs get a boost from database connectivity.



No. 36UT30

Description	Max. Print Speed	Printer Display	Item No.
Sign Maker			
VnM®8 Printer	5.0 in./sec.	LCD	**36UT30**
VnM Label Direct PC Software			
For Neo4, VnM®4 and VnM®8 Printers	—	—	**36UT94**

▶CHOOSE: Color	W	L	Item No.
VnM®8 Printer Accessories			
1-Color Print Ribbon			
Black, White	6½"	984 ft.	**J2310**
Black, White	8½"	984 ft.	**J2309**
1-Color Print Ribbon for Reflective Tape			
White	6½"	984 ft.	**36UU14**
White	8½"	984 ft.	**36UU20**
Vinyl Tape, Indoor/Outdoor			
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	4"	150 ft.	**J2297**
Black, Blue, Clear, Green, Gray, Orange, Red, White, Yellow	5"	150 ft.	**J2299**
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	6"	150 ft.	**J2301**
Black, Blue, Green, Gray, Orange, Red, White, Yellow	7"	150 ft.	**J2303**
Black, Blue, Clear, Green, Gray, Orange, Red, White, Yellow	8"	150 ft.	**J2305**
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	9"	150 ft.	**J2307**
Reflective Vinyl Tape, Indoor			
Black, Blue, Green, Orange, Red, White, Yellow	4"	75 ft.	**J2298**
Black, Red, White, Yellow	5"	75 ft.	**J2300**
Red, White, Yellow	6"	75 ft.	**J2302**
Blue, Red, White, Yellow	7"	75 ft.	**J2304**
Red, White, Yellow	8"	75 ft.	**J2306**
Blue, Red, White, Yellow	9"	75 ft.	**J2308**



Indoor/Outdoor Vinyl Tape, Yellow
No. J2297



BMP®51 No. 21U176



No. 21U189

BRADY

BMP®41 and BMP®51 Label Makers and Accessories

- Large LCD display
- QWERTY keyboard
- Stand alone or optional PC connectivity

Portable printers provide the versatility to create presized or continuous labels anywhere, anytime. Bluetooth®-enabled networked card works with Android®-powered mobile devices and Brady mobile app for wireless printing on the go. Built-in cutter and easy-to-load cartridges.

BMP®41 Label Maker—Prints durable, 1"W die-cut or continuous labels on 10 different materials. Smart cell technology for automatic label set-up. Built-in wizards, symbols, bar codes, and serialization templates. Heavy-duty magnet accessory. Long-lasting rechargeable battery.

BMP®51 Label Makers—Print labels up to 1½"W on continuous and die-cut label materials. Large graphical display with backlight and on-screen indicators for parts, remaining material, and battery. Built-in labeling apps. Battery options for portability.

Starter Kits—All kits include a BMP printer, Li-ion battery, hard case, USB cable, AC power supply, and a variety of tapes, markers, and accessories to begin producing labels needed for your application.

Description	Mfr. Model	Item No.
BMP®41 Label Maker		
Printer with AC Adapter, Battery Pack, Brady CD, Cartridge, Hard Case, Product CD, Quick Start Guide, USB Cable	BMP41	**29YJ26**
BMP®51 Label Makers		
Printer with AC Adaptor	BMP51-KIT-AC	**21U174**
Printer with Li-Ion Battery, AC Adaptor, and Battery Charger	BMP51	**21U176**
BMP®41 Label Maker Starter Kits		
Electrical	BMP41-KIT-EL	**20XX01**
Voice/Data Communications	BMP41-KIT-VD	**20XX04**
BMP®51 Label Maker Starter Kits		
Facility Identification	BMP51-KIT-GI	**21U178**
Electrical	BMP51-KIT-EL	**21U177**
Lab Identification	BMP51-KIT-LS	**21U179**
Voice/Data Communications	BMP51-KIT-VD	**21U180**

Size	▶CHOOSE: Color	Item No.
Ribbon/Tape Cartridge Assemblies		
Indoor/Outdoor Vinyl		
½" x 20 ft.	White on Clear	**21U189**
½" x 25 ft.	White on Black	**21U194**
¾" x 20 ft.	Black on Clear, White on Clear	**H4304**
¾" x 25 ft.	Black on Orange, Black on White, Black on Yellow, Red on White, White on Black, White on Blue, White on Green, White on Red	**G5835**
1" x 20 ft.	White on Clear	**29YJ69**
1½ x 20 ft.	White on Clear	**21U197**
1½ x 25 ft.	Black on Orange, Black on White, Black on Yellow, Red on White, White on Black, White on Blue, White on Green, White on Red	**H4306**
Self-Laminating Vinyl		
¾" x 25 ft.	Black on White	**21U229**
1" x 25 ft.	Black on White	**21U230**
1¼" x 25 ft.	Black on White	**21U234**
1½" x 25 ft.	Black on White	**21U181**
Frozen Surface Polyester		
½" x 25 ft.	Black on White	**21U185**
Nylon Cloth		
⅜" x 16 ft.	Black on White	**21U211**
½" x 16 ft.	Black on White	**21U212**
¾" x 16 ft.	Black on White	**21U219**
1" x 16 ft.	Black on White	**21U220**
Reflective Tape		
½" x 25 ft.	Black on White, Black on Yellow	**G5836**
¾" x 25 ft.	Black on White, Black on Yellow	**G5837**
1" x 25 ft.	Black on White, Black on Yellow	**G5838**
1½" x 25 ft.	Black on White, Black on Yellow	**G5839**

Label Size (H x W)	Labels per Roll	Color	Item No.
Ribbon/Label Cartridge Assemblies			
Self-Laminating Vinyl			
¾" x ½"	360	Black on White	**12X344**
1½" x 2⅛"	80	Black on White	**12X358**
Heat-Shrink Polyolefin			
1.015" x 0.235"	80	Black on White	**12X378**
1.015" x 0.335"	80	Black on White	**12X386**
1.015" x 0.439"	80	Black on White	**12X389**
Frozen Surface Polyester			
½" x ½"	240	Black on White	**21U182**
¼" x 1¼"	200	Black on White	**21U188**
Chemical-Resistant Polyester			
⅜" x ⅞"	320	Black on White	**21U207**
¾" x ⅞"	320	Black on White	**21U213**
⅞" x ⅞"	280	Black on White	**21U237**

BMP® 71 No. 5UCU5





Yellow No. D9044



Red No. D9043



No. 5UCT2

BRADY

BMP® 71 Label Makers and Accessories

Portable printers feature single print color with built-in design wizards, automatic label formatting, and large color display. Printers are compatible with LabelMark® and MarkWare® software, with over 400 label options and over 500 built-in symbols. Include 1 roll of white glossy polyester label tape No. 5WKG4, 1 black ribbon cartridge No. 5UCT1, media adapter, USB cable, rechargeable battery, and charger/AC adapter.

Description	Mfr. Model	Item No.
BMP® 71 Label Makers		
Printer with Hard Plastic Case	BMP71	**5UCU5**
Printer with Soft Nylon Case	BMP71-SC	**5UCU6**
Printer with Quick Charger	BMP71-QC	**5UCU7**
Printer with Soft Nylon Case and Quick Charger	BMP71-SC-QC	**5UCU8**
Accessories		
Cleaning Kit	M71-CLEAN	**5UCR3**
USB Cable	M-USB-103788	**12X336**
Label Roll Adapter For Use With HandiMark®, TLS2200® and BMP®61 Tapes	M71-ADAPT-BK	**52AZ37**
Soft Nylon Case	M71-SC	**5UCR9**
Hard Plastic Case	M71-HC	**5UCT9**
Spare Battery Pack	M71-BATT	**5UCU0**
Quick Charger	M71-QC	**5UCU4**

Size	▶CHOOSE: Color	Item No.
Ribbon		
Resin Ribbon		
2" x 150 ft.	Black	**5UCT1**
Acrylic Ribbon		
2" x 150 ft.	Blue, Green, Magenta, Red, Yellow	**D9044**
2" x 150 ft.	White	**5UCL2**
Tape		
Polypropylene, Indoor		
1" x 50 ft.	White	**5UCR8**
2" x 50 ft.		**5UCT6**
Vinyl, Indoor/Outdoor		
0.5" x 50 ft.	Black, Blue, Brown, Clear, Gold, Gray, Green,	**D9042**
1" x 50 ft.	Light Blue, Orange, Pink, Purple, Red, Sky	**D9043**
2" x 50 ft.	Blue, Tan, White, Yellow, Yellow/Brown	**D9045**
Repositionable Vinyl, Indoor		
1" x 50 ft.	White, Yellow	**D9051**
Repositionable Vinyl, Indoor/Outdoor		
2" x 50 ft.	White, Yellow	**D9052**
Reflective Vinyl, Indoor/Outdoor		
1" x 75 ft.	Orange, White, Yellow	**D9046**
2" x 75 ft.		**D9047**
Glow-in-the-Dark Polyester, Indoor/Outdoor		
1" x 75 ft.	Phosphorescent	**5UCP5**

Label Size (H x W)	Labels per Roll	Color	Item No.
Labels			
Polyester with Preprinted Heading "Caution"			
4" x 1.9"	100	White	**5UCT2**
Polyester with Preprinted Heading "Notice"			
4" x 1.9"	100	White	**5UCT3**

Industrial Label/Sign Makers and Accessories

BRADY

Benchtop sign and label printers feature a smart chip that automatically sets up labels, eliminating calibration steps, and reducing label waste. Easy material changeover: drop in cartridge, lock it, and start typing. USB and Ethernet connectivity to Windows® computers. 5-yr. manufacturer's warranty.

BBP®30—Provides an ideal solution for single color printing applications like pipe marking and shelf/bin labeling. Uses easy-to-load tapes and labels; ribbon cartridges snap into place and can't be installed incorrectly. Supports continuous and die-cut labels. Includes power cord, USB cable, quick-start guide, and cleaning kit.

BBP®31—A large touch-screen display allows drag-and-drop moving and sizing. Use as a stand-alone unit or connected to a PC. Works with MarkWare software. Includes a template library of 266 "pick and print" signs and labels and 192 built-in graphics, with ability to import more graphics and fonts.

BBP®33—Connects to a PC for setups. Select units include LabelMark™ labeling software for wire and data comm ID and ADM labeling; others include MarkWare software.

BBP®35 and BBP®37 Printers—Fast multicolor printer/cutters produce highly noticeable and memorable signs and labels for a wide variety of safety, facility, and productivity uses. Intuitive operation is great for multiple users, centralized locations, and Lean/5S events. They feature built-in label wizards, text formatting options, symbols, and special characters. Add multiple barcode symbologies, including QR, with the Brady Workstation app. BBP37 model adds an XY cutter for text and irregular shapes.

Description	Max. Tape Width	Mfr. Model	Item No.
Printing Systems			
BBP®30 Printer	4"	S3000	**48LT20**
BBP®31 Printer	4"	S3100-W	**6XGX4**
BBP®33 Printer with Auto Cutter	4"	149552	**21U483**
BBP®33 Printer with Auto Cutter, LabelMark™5 Software and MarkWare® Software	4"	150643	**21U486**
BBP®35 Multicolor Printer with Auto Cutter	4"	BBP35	**40AW42**
BBP®37 Multicolor Printer with XY Cutter and Auto Cutter	4"	BBP37	**40AW43**

Size	▶CHOOSE: Color	Item No.
1-Color Ribbon		
4.33" x 200 ft.	Black, Blue, Green, Magenta, Orange, Red, White, Yellow	**G8802**
2-Color Ribbon, 8" Panels		
4 21/64" x 200 ft.	Black/Blue, Black/Green, Black/Orange, Black/Red, Black/Yellow, Green/Red	**J2589**
4-Color Ribbon, 8" Panels		
4 21/64" x 200 ft.	Black/Red/Blue/Orange, Black/Red/Green/Blue, Black/Red/Yellow/Blue, Cyan/Magenta/Yellow/Black	**J2588**
Vinyl Tape, Indoor/Outdoor		
½" x 100 ft.	Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	**G8307**
1⅛" x 100 ft.	Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	**G8308**
2¼" x 100 ft.	Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	**G8309**
3" x 100 ft.	White, Yellow	**G8311**
4" x 100 ft.	Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	**G8310**
Reflective Vinyl Tape, Indoor/Outdoor		
1⅛" x 50 ft.	Orange, Silver, Yellow	**G8316**
2¼" x 50 ft.	Orange, Silver, Yellow	**G8317**
4" x 50 ft.	Orange, Silver, Yellow	**G8318**
Repositionable Vinyl Tape, Indoor/Outdoor		
½" x 100 ft.	White, Yellow	**G8323**
1⅛" x 100 ft.	White, Yellow	**G8324**
2¼" x 100 ft.	White, Yellow	**G8325**
4" x 100 ft.	White, Yellow	**G8326**
Glow-in-the-Dark Polyester Tape, Indoor		
1⅛" x 50 ft.	Photoluminescent	**6XHC9**
2¼" x 50 ft.	Photoluminescent	**6XHD0**
4" x 50 ft.	Photoluminescent	**6XHD1**
High Performance Polyester Tape, Indoor/Outdoor		
½" x 100 ft.	Black, Blue, Brown, Clear, Green, Light Blue, Orange, Pink, Purple, Red, Sky Blue, Tan, White, Yellow, Yellow/Brown	**G8312**
1⅛" x 100 ft.	Black, Blue, Brown, Clear, Green, Orange, Pink, Purple, Red, Sky Blue, Tan, White, Yellow, Yellow/Brown	**G8313**
2¼" x 100 ft.	Black, Blue, Brown, Clear, Gray, Green, Light Blue, Orange, Pink, Purple, Red, Sky Blue, Tan, White, Yellow, Yellow/Brown	**G8314**
3" x 100 ft.	White	**6UNE6**
4" x 100 ft.	Black, Blue, Brown, Clear, Green, Orange, Pink, Purple, Red, Sky Blue, Tan, White, Yellow, Yellow/Brown	**G8315**
Polyester Tape For Cold Temperature Applications, Indoor/Outdoor		
1⅛" x 100 ft.	White, Yellow	**G8319**
2¼" x 100 ft.	White, Yellow	**G8320**
4" x 100 ft.	White, Yellow	**G8321**
Magnetic Backed Polyester Tape, Indoor/Outdoor		
2½" x 25 ft.	White	**6XHA7**
2½" x 25 ft.	Yellow	**6XHA9**
4¼" x 25 ft.	White, Yellow	**G8322**



BBP®30
No. 48LT20



BBP®31
No. 6XGX4



BBP®33
No. 21U486



BBP®35 and BBP®37
Nos. 40AW42 and 40AW43



4-Color Ribbon
Black/Red/
Blue/Orange
No. J2588



High Performance
Polyester Tape
Blue
No. G8314





BRADY

BBP®85 Sign and Label Printer

The large-format printer features intuitive touch-screen controls to let almost anyone create colorful, extra-large signs, labels, and warnings with minimal training. It makes signs and labels from 4" to 10"W, and banners up to 16-ft. long. 5-yr. manufacturer's warranty.

The BBP85 can be used as a stand-alone printer, or connect it to a Windows® PC with included USB cord and use the time-saving MarkWare®, MarkWare Lean Tools, or Brady Workstation software. MarkWare, available on Grainger.com®, features preformatted label layouts, preworded hazard statements, approved GHS/CLP symbols, data import capability, and prompts to enter your data. MarkWare Lean Tools—included with the BBP85 in all Kits on this page—supports visual workplace implementations employing 5S, total productive maintenance (TPM), standard work, or Kanban. Brady Workstation software is available as a free download from workstation.bradyid.com, along with purpose-specific free and paid apps. Simply enter information in your selected Brady Workstation app to produce compliant—or custom—signs and labels to print on the BBP85. Some apps save data for reuse. Printer includes a cleaning kit, documentation CD, print driver CD, Quick-Start guide, USB cable, and power cable.

Description	Mfr. Model	Item No.
BBP®85 Sign and Label Printer		
BBP®85 Printer Only	BBP85	23MG27

Size	▶CHOOSE: Color	Item No.
1-Color Ribbon		
6.25" x 200 ft.	Black, Blue, Green, Red, White, Yellow	D9056
8.8" x 200 ft.		D9005
2-Color Ribbon, 8" Panels		
6.25" x 200 ft.	Black/Green, Black/Orange, Black/Red, Black/Yellow	D9006
8.8" x 200 ft.	Black/Green, Black/Red	D9007
2-Color Ribbon, 15" Panels		
6.25" x 200 ft.	Black/Blue, Black/Green, Black/Red	D9008
8.8" x 200 ft.	Black/Blue, Black/Green, Black/Orange, Black/Red, Black/Yellow	D9009
4-Color Ribbon, 8" Panels		
6.25" x 200 ft.	Black/Red/Blue/Green, Black/Red/Blue/Yellow	D9055
8.8" x 200 ft.	Black/Red/Blue/Green, Black/Red/Blue/ Orange, Black/Red/Blue/Yellow	D9011
4-Color Ribbon, 15" Panels		
6.25" x 200 ft.	Black/Red/Blue/Green, Black/Red/Blue/Yellow	D9012
8.8" x 200 ft.		D9013
Vinyl Tape, Indoor/Outdoor		
4" x 50 ft.	Black, Blue, Green, Orange, Red, White, Yellow	D9018
6" x 50 ft.		D9054
7" x 50 ft.	Blue, Green, Orange, Red, White, Yellow	D9019
8" x 50 ft.	Black, Blue, Green, Orange, Red, White, Yellow	D9021
10" x 50 ft.		D9022
Polyester Tape, Indoor/Outdoor		
4" x 50 ft.	Clear, Orange, White, Yellow	D9014
6" x 50 ft.		D9015
7" x 50 ft.		D9016
10" x 50 ft.		D9017
Reflective Polyester Tape, Indoor/Outdoor		
4" x 33 ft.	Metallic Silver	3HGE1
7" x 33 ft.		1NK25
10" x 33 ft.		1NK29





BRADY

BradyJet J5000 Color Label Printer

Industrial ink-jet printer creates high resolution, full-color labels at up to 4800 dpi print resolution. Also offers full-color photo reproduction and wide tonal range for printing high-impact color signs and labels. Features fast 6" per second print speed, full-color printing in a single pass, and large capacity ink cartridges. No. 52YC08 J5000 printer includes Quick-Start guide, auto cutter, product CD, and power cable.

Description	Mfr. Model	Item No.
BradyJet J5000 Printer		
BradyJet J5000 Printer Only	J5000	52YC08

Description	▶CHOOSE: Color	Item No.
Printer Ink Pad		
3" W x 6" H x 8" D	—	52YC09
Ink Cartridges		
1-Color Ink Cartridge	Black, Cyan, Magenta, Yellow	J5803
4-Color Ink Cartridge	Black/Cyan/Magenta/Yellow	52YC29
Polyester Labels		
2¼" x 100 ft.	White	52YC10
4" x 100 ft.		52YC12
6" x 100 ft.		52YC14
8" x 100 ft.		52YC16
Vinyl Labels		
2¼" x 100 ft.	White	52YC11
4" x 100 ft.		52YC13
6" x 100 ft.		52YC15
8" x 100 ft.		52YC17
Polyester Label		
3 23/64" x 2 11/64"	White	52YC18
4 11/32" x 2 61/64"		52YC20
6 7/64" x 4 9/64"		52YC22
8 5/16" x 6 7/64"		52YC26
10" x 7"		52YC24
Vinyl Label		
3 23/64" x 2 11/64"	White	52YC19
4 11/32" x 2 61/64"		52YC21
6 7/64" x 4 9/64"		52YC23
8 5/16" x 6 7/64"		52YC27
10" x 7"		52YC25



Green
No. D9025



Yellow
No. D9027



No. 13C786

MiniMark® Tape Cartridges and Vinyl Tape

BRADY

Fresh supplies keep your MiniMark® printer on the job. Additional sizes, colors, and types are available at Grainger.com®; search for "MiniMark tape cartridges."

Size	▶CHOOSE: Color	Item No.	Pkg. Qty.
1-Color Ribbon Cartridge For General-Purpose Vinyl Tape			
4.4" x 290 ft.	Black, Blue, Green, Red, White	D9025	2
1-Color Ribbon Cartridge For Premium Vinyl Tape			
4" x 290 ft.	Black, White, Yellow	D9029	2
General-Purpose Vinyl Tape, Indoor/Outdoor			
0.5" x 100 ft.	Black, Blue, Clear, Green, Red, White, Yellow	D9026	1
1.125" x 110 ft.	Black, Blue, Green, Orange, Red, White, Yellow	D9053	1
2.25" x 110 ft.		D9027	1
4" x 100 ft.		D9028	1
Premium Vinyl Tape, Indoor/Outdoor			
1.125" x 100 ft.	Orange	13C805	1
1.125" x 100 ft.	Red	13C804	1
1.125" x 100 ft.	White	13C803	1
1.125" x 100 ft.	Yellow	13C802	1
2.25" x 100 ft.	Green	13C797	1
2.25" x 100 ft.	White	13C794	1
2.25" x 100 ft.	Yellow	13C793	1
4" x 100 ft.	Green	13C789	1
4" x 100 ft.	White	13C786	1
4" x 100 ft.	Yellow	13C785	1



Black/Yellow
No. F8477



No. 4EE47



No. 1ANB4

IDXPERT™ and LABXPERT™ Tape Cartridges and Labels

BRADY

Get the accessories you need to keep your printers working properly. Additional sizes, colors, and types are available at Grainger.com®; search for "IDXPERT OR LABXPERT tape cartridges."

Size	▶CHOOSE: Color	Item No.
Tapes for IDXPERT™ and LABXPERT™		
Vinyl, Indoor/Outdoor		
0.5" x 30 ft.	Black/Clear, Black/Orange, Black/White, Black/Yellow, Red on White, White/Blue, White/Green, White/Red	F8477
1" x 30 ft.		F8492
1.5" x 30 ft.		F8493

Size	Labels per Roll	Item No.
Labels for IDXPERT™ and LABXPERT™		
Nylon Cloth, Color Black on White, Indoor Use		
0.375" Dia.	300/Roll	4EE41
0.5" Dia.	300/Roll	4EE42
¾ x ½"	275/Roll	4EE39
0.9 x 0.5"	250/Roll	4EE40
Polyester, Color Black on White, Indoor Use		
0.9 x 0.9"	350/Roll	4EE47
1.9 x 0.25"	200/Roll	4EE46
Labels for LABXPERT™		
Nylon Cloth, Color Black on White, Indoor Use		
1 x 0.375" Dia.	300/Roll	1ANB4
Polyester, Color Black on White, Indoor Use		
1 x 2⅝"	150/Roll	4EE45



Red
No. D9031



Blue
No. F0285



Yellow
No. F9024



No. 41F255

GlobalMark®2 Ribbon and Label Cartridges

BRADY

Supplies are freshly manufactured to keep your GlobalMark®2 printer in service.

Description and Size	▶CHOOSE: Color	Item No.
Print Ribbons		
1-Color	Black, Blue, Cyan, Green, Magenta, Orange, Red, White, Yellow	D9031
2-Color, 8" Panels	Black/Blue, Black/Green, Black/Orange, Black/Red, Black/Yellow, Red/Green	D9032
4-Color, 8" Panels	Black/Magenta/Cyan/Yellow, Black/Red/Blue/Green, Black/Red/Blue/Orange, Black/Red/Blue/Yellow	D9034
Vinyl Tape, Indoor/Outdoor		
0.5" x 100 ft.	Black, Blue, Brown, Clear, Gray, Green, Orange, Purple, Red, White, Yellow	F0286
1.125" x 100 ft.	Black, Blue, Brown, Clear, Gray, Green, Orange, Purple, Red, White, Yellow	F0285
2.25" x 100 ft.	Black, Blue, Brown, Clear, Gray, Green, Light Blue, Orange, Pink, Purple, Red, White, Yellow	F0284
3" x 100 ft.	White, Yellow	F9165
4" x 100 ft.	Black, Blue, Brown, Clear, Gray, Green, Light Blue, Orange, Pink, Purple, Red, White, Yellow	F0283
Repositionable Vinyl Tape, Indoor		
2.25" x 100 ft.	White, Yellow	F9024
4" x 100 ft.	White, Yellow	F9025
Polyester Tape, Outdoor		
2.25" x 100 ft.	Black, Blue, Clear, Green, Orange, Red, White, Yellow	F0288
4" x 100 ft.	Black, Blue, Clear, Green, Orange, Red, White, Yellow	F0287

Legend	Size	Color	Labels per Roll	Item No.
Preprinted and Precut Blank Sign Headers				
Blank	2¼" x 3¼"	Yellow	270	41F242
Blank	2¼" x 3¼"	White	270	41F241
Blank	4" x 6¼"	White	165	41F249
Blank	4" x 6¼"	Yellow	165	41F250
Caution	2¼" x 3¼"	Black/Yellow	270	41F246
Caution	4" x 6¼"	Black/Yellow	165	41F254
Caution (Picto)	2¼" x 3¼"	Black/Yellow	270	41F245
Caution (Picto)	4" x 6¼"	Black/Yellow	165	41F253
Danger	2¼" x 3¼"	Red/White/Black	270	41F244
Danger	4" x 6¼"	Red/White/Black	165	41F252
Danger (Picto)	2¼" x 3¼"	White/Red	270	41F243
Danger (Picto)	4" x 6¼"	White/Red	165	41F251
Notice	2¼" x 3¼"	White/Blue	270	41F248
Notice	4" x 6¼"	White/Blue	165	41F256
Warning (Picto)	2¼" x 3¼"	Black/Orange	270	41F247
Warning (Picto)	4" x 6¼"	Black/Orange	165	41F255
Preprinted and Precut Safety Tags				
Blank	3¼" x 5¾"	White	100	41F240
Caution (Picto)	3¼" x 5¾"	Yellow/Black/White	100	41F239
Danger	3¼" x 5¾"	Red/Black/White	100	41F238
Danger (Picto)	3¼" x 5¾"	Red/White	100	41F237



Yellow Background
No. D3383



White/Red
No. D3612

Self-Sticking Directional Flow Arrows and Pipe Banding Tape

BRADY
INCOM MANUFACTURING GROUP
HARRIS INDUSTRIES, INC.

Use directional flow arrows in combination with pipe banding tape and worded legends. Made of high-performance vinyl.

▶CHOOSE: Background Color	Size	Markers per Card	Brand	Item No.
Arrow - Single				
Blue, Green, Red, Yellow	Fits 1 to 2½" O.D.	4	Brady	**D3383**
Blue, Green, Red, Yellow	Fits > 3" O.D.	2	Brady	**D3449**
Blue, Green, Red, Yellow	Fits > 6" O.D.	2	Brady	**D3528**

▶CHOOSE: Color	Roll Size	Brand	Item No.
Directional Flow Arrow Tape			
Black/Gray, Black/Green, Black/Orange, Black/White, Black/Yellow, White/Blue, White/Brown, White/Green, White/Red	1" x 90-ft.	Brady	**D3612**
Black/Gray, Black/Green, Black/Orange, Black/White, White/Green, White/Red	1" x 108-ft.	Incom	**D4933**
Blue, Green, Red, Yellow	2" x 54-ft.	Harris Ind.	**E8343**
Black/Gray, Black/Green, Black/Orange, Black/White, Black/Yellow, White/Blue, White/Brown, White/Green, White/Red	2" x 90-ft.	Brady	**D3613**
Black/Gray, Black/Green	2" x 108-ft.	Incom	**D4934**
Green, Red, White/Blue, Yellow	4" x 54-ft.	Harris Ind.	**E8344**
Black/Green, Black/Orange, Black/White, Black/Yellow, White/Blue, White/Brown, White/Green, White/Red	4" x 90-ft.	Brady	**D3614**
Black/Gray, Black/Green, Black/Orange, Black/White, White/Blue	4" x 108-ft.	Incom	**D4935**
Pipe Banding Tape			
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	1" x 90-ft.	Brady	**D3615**
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	2" x 90-ft.	Brady	**D3616**
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	4" x 90-ft.	Brady	**D3617**



Yellow
No. D3477
(Shown with Directional Flow Arrow Tape)

No. 6M492





No. D3355

Self-Sticking Vinyl Pipe Markers

BRADY

Meet ANSI A13.1 Standards when used with directional flow arrow tape, sold separately this page. Made of durable indoor/outdoor vinyl.

Description	Markers per Card
Fits < ¾" O.D.	3
Fits ¾ to 2⅜" O.D.	4
Fits 2½ to 7⅞" O.D.	1
Fits > 8" O.D.	1

Legend	▶CHOOSE: Background Color	Fits < ¾" O.D. Item No.	Fits ¾ to 2⅜" O.D. Item No.	Fits 2½ to 7⅞" O.D. Item No.	Fits > 8" O.D. Item No.
Air	Blue, Green, Yellow	**D3314**	**D3379**	**D3446**	**D3522**
Air Supply	Blue, White	**D3315**	**D3381**	**D3447**	**D3524**
Argon	Blue, Brown, Green	**D3607**	**D3608**	**D3609**	**D3611**
Carbon Dioxide	Brown, Red, Yellow	**D3322**	**D3388**	**D3455**	**D3538**
Carbon Dioxide	Gray	**5ACA3**	**5ACC3**	—	—
Chilled Water	Green	**5ACL4**	**4T576**	**4T575**	**6N627**
Chilled Water Return	Green	**5ACL5**	**6M493**	**6M492**	**6N204**
Chilled Water Supply	Green	**5ACL6**	**6M495**	**6M494**	**6N205**
City Water	Green	**5ACN1**	**4T578**	**4T577**	**6N628**
Cold Water	Green	**5ACN2**	**4T580**	**4T579**	**6N629**
Compressed Air	Blue, Green, Yellow	**D3325**	**D3392**	**D3458**	**D3544**
Condensate	Brown	—	**D3393**	**D3459**	**D3546**
Condensate	Yellow	**D3326**	**D3393**	**D3459**	**D3546**
Condensate Drain	Green, Yellow	**D3327**	**D3394**	**D3461**	**D3548**
Condensate Pump Discharge	Brown	**D3326**	—	—	—
Condensate Return	Green, Yellow	**D3328**	**D3395**	**D3462**	**D3549**
Condenser Water Return	Green	**5ACR7**	**5ACR8**	**5ACR5**	**5ACR6**
Condenser Water Supply	Green	**5ACT1**	**5ACT2**	**5ACR9**	**5ACT0**
Domestic Cold Water	Green	**5ACV5**	**6M561**	**6M560**	**6M634**
Domestic Cold Water Supply	Green	**5ACV8**	**5ACV9**	**5ACV6**	**5ACV7**
Domestic Hot Water	Green, Yellow	**D3329**	**D3396**	**D3463**	**D3551**
Domestic Hot Water Return	Green, Yellow	**D3331**	**D3397**	**D3464**	**D3552**
Domestic Hot Water Supply	Green, Yellow	**D3332**	**D3398**	**D3465**	**D3553**
Drain	Green, Yellow	**D3514**	**D3515**	**D3516**	**D3517**
Electric Traced	Orange, Yellow	**D3333**	**D3399**	**D3466**	**D3554**
Fire Auto Sprinklers	Red	**5ACZ4**	**6M419**	**6M363**	—
Fire Protection Water	Red	**5ACZ5**	**6M465**	**6M412**	**6N609**
Fuel Oil	Yellow	**5ADA0**	**6M441**	**6M385**	**6N614**
Gas	Brown, Yellow	**D3336**	**D3403**	**D3469**	**D3557**
Glycol	Yellow	**5ADC2**	**5ADC3**	**5ADC0**	**5ADC1**
Glycol Return	Yellow	**5ADC6**	**5ADC7**	**5ADC4**	**5ADC5**
Glycol Supply	Yellow	**5ADD0**	**5ADD1**	**5ADC8**	**5ADC9**
Heating Return	Green, Yellow	**D3337**	**D3404**	**D3471**	**D3558**
Heating Supply	Green, Yellow	**D3338**	**D3405**	**D3472**	**D3559**

Legend	▶CHOOSE: Background Color	Fits < ¾" O.D. Item No.	Fits ¾ to 2⅜" O.D. Item No.	Fits 2½ to 7⅞" O.D. Item No.	Fits > 8" O.D. Item No.
Heating Water Return	Green, Yellow	**D3341**	**D3407**	**D3474**	**D3562**
Heating Water Supply	Green, Yellow	**D3342**	**D3408**	**D3475**	**D3563**
High Pressure Steam	Green, Yellow	**D3344**	**D3411**	**D3477**	**D3565**
Hot Water	Green, Yellow	**D3346**	**D3413**	**D3479**	**D3568**
Hot Water Return	Green, Yellow	**D3348**	**D3415**	**D3482**	**D3572**
Hot Water Supply	Green, Yellow	**D3349**	**D3416**	**D3483**	**D3573**
Hydraulic Oil	Yellow	**5GXE3**	**5GXE4**	**5GXE1**	**5GXE2**
Low Pressure Steam	Green, Yellow	**D3354**	**D3421**	**D3487**	**D3577**
Medical Air	Blue, Yellow	**D3756**	**D3757**	—	—
Medical Vacuum	Blue, White	**D3758**	**D3759**	—	—
Natural Gas	Brown, Yellow	**D3355**	**D3422**	**D3488**	**D3578**
Nitrogen	Black	**5ACA7**	**5ACC6**	—	—
Nitrogen	Blue, Green	**D3356**	**D3423**	**D3489**	**D3581**
Nitrous Oxide	Blue	**5ACA8**	**5ACC7**	—	—
Nitrous Oxide	Yellow	**5ADK9**	**5ADL0**	**5ADK7**	**5ADK8**
Non-Potable Water	Green, Yellow	**D3604**	—	**D3606**	**D3583**
Oxygen	Blue, Green, Yellow	**D3357**	**D3424**	**D3491**	**D3585**
Potable Water	Green, Yellow	**D3359**	**D3426**	**D3493**	**D3587**
Process Water	Green	**5ADP6**	**5ADP7**	**5ADP4**	**5ADP5**
Propane Gas	Brown, Yellow	**D3361**	**D3427**	**D3494**	**D3588**
Refrigerant Liquid	Yellow	**5ADT4**	**6N236**	**6M598**	**3GTZ8**
Return	Blue	**D3363**	**D3429**	**D3496**	—
Return	Green, Yellow	**D3363**	**D3429**	**D3496**	**D3591**
Sprinkler Fire	Red	**5ADW9**	**6M464**	**6M411**	**3GTZ9**
Sprinkler Water	Red	**5ADX0**	**6M466**	**6M413**	**3GUA1**
Steam	Green, Yellow	**D3366**	**D3433**	**D3499**	**D3594**
Steam Supply	Green, Yellow	**D3367**	**D3434**	**D3501**	**D3595**
Storm Drain	Green	**5ADX6**	**6N228**	**4T619**	**6N606**
Supply	Blue, Green, Yellow	**D3368**	**D3435**	**D3502**	**D3596**
Tower Water Return	Green	**5ADZ3**	**5ADZ4**	**5ADZ1**	**5ADZ2**
Tower Water Supply	Green	**5ADZ7**	**5ADZ8**	**5ADZ5**	**5ADZ6**
Vacuum	Green, Yellow	**D3371**	**D3437**	**D3504**	**D3598**
Vent	Blue, Green	**D3372**	**D3438**	**D3505**	**D3599**
Vent	Yellow	—	**D3438**	**D3505**	**D3599**
Waste Water	Green, Yellow	**D3374**	**D3441**	**D3507**	**D3602**
Water	Green, Yellow	**D3375**	**D3442**	**D3508**	**D3603**



Snap-On
No. 6GP86



Strap-On
No. 6GP96

BRADY

Snap-On and Strap-On Pipe Markers Help Identify Pipes in Almost Any Condition

Grainger can help you effectively communicate the contents of pipes with 360° visibility. Coiled plastic snap-on markers and flat plastic strap-on markers with nylon straps may be applied to dirty, oily, greasy, or rough surfaces. Meet ANSI A13.1 Standards. For additional pipe marking options, go to Grainger.com® and search for "Pipe Markers".

Think Safety. Think Grainger.®



No. 23Y039



No. 23Y065

BRADY GA GRAINGER APPROVED

Die-Cut Number and Letter Sets

Self-sticking vinyl adheres to any clean or dry surface indoors or outdoors. Nonreflective vinyl has permanent pressure-sensitive adhesive. Reflective vinyl provides high visibility.

Letter Sets—Nos. 32MD89 and 35TA26 include 9 each of A-J, 8 each of K-T, 8 each of U-Z, and A, B, C, and E. Nos. 23Y039 and 23Y057 include 130 letters: 5 each of A-Z. No. 23Y048 includes 260 letters: 10 each of A-Z.

Number Sets—Nos. 20TA82, 14R093, and 3XER4 include 250 numbers: 10 each of 0-9. No. 14R094 includes 150 numbers: 6 each of 0-9. No. 20TC78 includes 25 numbers: 25 of number 6. No. 32ME05 includes 32 of 0 (zero). No. 32MF03 includes five of 0 (zero).

Number and Letter Sets—Nos. 23Y039 and 23Y048 include 100 letters and numbers: 6 each of E; 5 each of A, R, and S; 4 each of L, P, and T; 3 each of F, G, H, I, M, N, O, U, and W; 2 each of B, C, D, K, V, and Y; 2 each of numbers 0-9 and symbols $ and ¢; and 1 each of J, Q, X, and Z. No. 23Y065 includes 180 letters and numbers: 5 each of A-Z and 0-9. No. 20TC70 includes 20 each of A, E, I, L, N, O, R, S, T, and 0-9, 10 each of remaining letters, and 5 each of $, &, and punctuation.

Character H	Brand	NONREFLECTIVE LETTER SETS: BLACK Item No.	NONREFLECTIVE LETTER SETS: BLACK ON YELLOW Item No.	NONREFLECTIVE NUMBER AND LETTER SETS: BLACK Item No.	NONREFLECTIVE NUMBER AND LETTER SETS: BLACK ON YELLOW Item No.	NONREFLECTIVE NUMBER SETS: BLACK ON YELLOW Item No.	NONREFLECTIVE NUMBER SETS: BLACK ON WHITE Item No.	NONREFLECTIVE NUMBER SETS: BLACK ON SILVER Item No.
5/8"	Brady	—	—	—	—	32ME05	—	—
1"	Brady	—	32MD89	20TC70	20TA82	—	3XER4	20TC78
1 15/16"	Brady	—	35TA26	—	—	—	—	—
2"	Brady	—	—	—	—	14R093	—	—
2 15/16"	Brady	—	—	—	—	14R094	—	—
3 7/8"	Brady	—	—	—	—	32MF03	—	—
6"	GA	23Y039	—	—	—	—	—	—

Character H	Brand	REFLECTIVE LETTER SETS: SILVER GRAY Item No.	REFLECTIVE LETTER SETS: YELLOW ON BLACK Item No.
2"	GA	23Y048	—
3"	GA	—	23Y065
6"	GA	23Y057	—

Description	Character	Character H	Brand	Item No.
Aluminum Utility Panel (Characters not included)	Blank	1 15/16"	Brady	14R038

TESTED
DATE INITIALS

No. 5MZ81

INSPECTED
DATE INITIALS

No. 5MZ80

CALIBRATED
BY _____ DATE _____
DUE FOR CAL. _____

No. 5MZ85

BRADY

Write-On Inspection Labels

Use pen or marker on polyester material labels. Adhesive backed. 1½"L x ⅝"H; 364 per pkg.

BRADY

Die-Cut Numbers and Letters

Matte-finish, pressure-sensitive vinyl with aggressive adhesive holds for years when applied to any clean, dry surface. Self-spacing, self-aligning, interlocking card sets with 2"H or 3"H black characters include 20 each of A, E, I, L, N, O, R, S, and T. 10 each of remaining letters, 20 each of numerals 0 to 9, 5 each of $, &, and punctuation. Quik-Align® numbers and letters are designed for indoor or outdoor use.



No. 4T732

Description	Item No.
Nonreflective Number and Letter Sets	
2"H Characters	4T732
3"H Characters	14R040
Replacement Characters, Pkg. of 10	
▶CHOOSE: 0 thru 9	D4798
▶CHOOSE: A thru Z	D4799
Arrow	14R071
$	14R069
&	14R070
Punctuation	14R072

BRADY

Card-Mounted Numbers and Letters

Self-sticking, black-on-yellow vinyl is easily removable. ¾"H x 9/16"W. 32 characters per card. 25 cards in kit.

Nonreflective Number Set—Includes 4 each of numbers 0, 1, 2, 3, 4, 5, and 2 each of numbers 6, 7, 8, and 9 on each card.

Nonreflective Letter Set—Each card includes 1 each of letters A to Z and a repeat of A to F.



No. 4T731

Description	Item No.
Nonreflective Number and Letter Sets	
⅝"H Number Set	4T731
⅝"H Letter Set	4T730
Replacement Characters, 32 Per Card	
▶CHOOSE: 0 thru 9	D4796
▶CHOOSE: A thru Z	D4797

PREVENTIVE MAINTENANCE
BY _____ DATE _____
NEXT CHECK DATE _____

Nos. 8ATY9 and 8NAT6

SHELF LIFE
EXP. DATE

No. 9M991

QA APPROVED
BY _____
DATE _____

No. 8ATY6

CALIBRATION
I.D. No. _____
By _____ Date _____
Due _____

No. 8AY04

TESTED FOR ELECTRICAL SAFETY
BY _____ DATE _____

No. 8AXZ7

STRANCO

Self-Laminating Write-On Inspection Labels

Labels are ideal for exposure to rough use, abrasion, or chemicals. A clear self-laminating film seals in markings by pencil, pen, or marker. Polyester with acrylic adhesive backing. ⅝"H x 1½"W. 350 per pkg., No. 8ATY9 has 225 per pkg.


No. 2CDY2


No. 2CDZ5


No. 20Y596

GA GRAINGER APPROVED

Steel Hand Stamps

Use to permanently mark tools, components, nonmetals, and various metals. Character and size are indicated on the thumb side. Impressions are Gothic letters. For manual (tempered stamping head) or mechanical use.

Letter sets contain 27 stamps: A to Z and an ampersand (&) symbol. Number sets include 9 stamps: 0 to 8 with 6 also serving as a 9.

Combo sets contain a complete set of both letters and numbers and are packed in a plastic case.

General-Purpose—For medium- and light-duty marking. Can be applied on soft and hard metals without heat treatment.

Heavy-Duty—Designed for deeper marking in industrial applications. Can be applied on soft and hard metals without heat treatment.

Premier Heavy-Duty—Feature larger shanks that require less force and create better impressions in industrial applications. Can be applied on soft and hard metals without heat treatment.

Low-Stress Full Character—Designed for bold characters and light marking on soft metals and nonmetals.

Rhino Series—Largest shanks create excellent marks and require least force. Can be applied on soft and hard metals without heat treatment.

Low-Stress Dot Design—Dot character design is suitable for bold characters and light marking on soft metals and nonmetals.

Cr-V Steel Plate—Deliver professional results and durability. Can imprint metals up to Rockwell C58 to C62 hardness.

Description	Shank Size Square	Shank Length	Item No.
General-Purpose			
1/8" Combo	1/4"	2 5/16"	2CDX9
3/16" Combo	5/16"	2 3/8"	2CDY1
1/4" Combo	3/8"	2 21/32"	2CDY2
3/8" Combo	1/2"	2 13/16"	2CDY3
Heavy-Duty			
3/32" Numbers	5/16"	2 1/2"	1F102
3/32" Letters	5/16"	2 1/2"	1F103
3/32" Combo	5/16"	2 1/2"	1F110
1/8" Numbers	5/16"	2 1/2"	3W636
1/8" Letters	5/16"	2 1/2"	3W637
1/8" Combo	5/16"	2 1/2"	1F111
3/16" Numbers	3/8"	2 11/16"	3W699
3/16" Letters	3/8"	2 11/16"	3W638
3/16" Combo	3/8"	2 11/16"	1F112
1/4" Numbers	7/16"	3"	3W639
1/4" Letters	7/16"	3"	3W640
1/4" Combo	7/16"	3"	1F113
3/8" Numbers	9/16"	3 1/8"	1F104
3/8" Letters	9/16"	3 1/8"	1F105
Premier Heavy-Duty			
3/32" Numbers	5/16"	2 3/4"	1F106
3/32" Letters	5/16"	2 3/4"	1F107
3/32" Combo	5/16"	2 3/4"	1F114
1/8" Numbers	3/8"	2 3/4"	3W641
1/8" Letters	3/8"	2 3/4"	3W642
1/8" Combo	3/8"	2 3/4"	1F115
3/16" Numbers	7/16"	2 3/4"	3W643
3/16" Letters	7/16"	2 3/4"	3W644
3/16" Combo	7/16"	2 3/4"	1F116
1/4" Numbers	1/2"	3"	3W645
1/4" Letters	1/2"	3"	3W646
1/4" Combo	1/2"	3"	1F117
3/8" Numbers	5/8"	3 3/8"	1F108
3/8" Letters	5/8"	3 3/8"	1F109

Description	Shank Size Square	Shank Length	Item No.
Low Stress Full Character			
1/8" Numbers	3/8"	2 3/4"	2CDY5
1/8" Letters	3/8"	2 3/4"	2CDY4
1/8" Combo	3/8"	2 3/4"	2CDY6
1/4" Numbers	1/2"	3"	2CDY8
1/4" Letters	1/2"	3"	2CDY7
1/4" Combo	1/2"	3"	2CDY9
1/2" Numbers	3/4"	4"	2CDZ4
1/2" Letters	3/4"	4"	2CDZ3
Rhino Series			
1/8" Letters	1/2"	3 1/8"	1EC12
1/4" Numbers	5/8"	3 1/2"	1EC15
1/4" Letters	5/8"	3 1/2"	1EC14
Low Stress Dot Design			
1/8" Letters	3/8"	2 3/4"	2CDZ5
1/4" Numbers	1/2"	3"	2CDZ9
1/4" Combo	1/2"	3"	2CEA1
3/8" Numbers	5/8"	3 3/8"	2CEA3
3/8" Letters	5/8"	3 3/8"	2CEA2
1/2" Numbers	3/4"	4"	2CEA5
1/2" Letters	3/4"	4"	2CEA4
Cr-V Steel Plate			
1/16" Combo	1/4"	2 7/16"	20Y596
1/8" Numbers	1/4"	2 3/8"	20Y590
3/16" Numbers	5/16"	2 3/8"	20Y591
3/16" Letters	5/16"	2 3/8"	20Y584
1/4" Numbers	3/8"	2 21/32"	20Y592
1/4" Letters	3/8"	2 21/32"	20Y585
5/16" Combo	1/2"	2 3/4"	20Y597
3/8" Numbers	1/2"	2 13/16"	20Y594
1/2" Numbers	5/8"	3 9/32"	20Y595
1/2" Letters	5/8"	3 9/32"	20Y588
1/2" Letters, Round Dotted	5/8"	4"	20Y501


No. 43Y643

C.H. HANSON Since 1900 • Tools For Generations

Steel Letter and Numbers Hand Stamps

Use with a handheld hammer to permanently mark tools, components, locks, and various metals. Impressions are Gothic letters. Character and size are indicated on the thumb side. Each contains a complete set of letters and numbers, packed in a steel index box that can fit into tool boxes.

Standard are cost-effective stamps for general purpose use.

Premier stamps have large, tempered shanks to help provide extra safety under continuous hard hammering.

Reverse stamps provide raised markings on thin metal or forging dies, or in embossing and mold applications.

Low-Stress designs produce minimum stress on marked metal. Meet U.S. DOE Nuclear Energy Standard RDT F 7-3T.

Impression Letter Type	Character H	Shank Size Square	Shank L	Item No.
Standard	1/8"	1/4"	2 3/8"	21HT50
	1/4"	3/8"	2 5/8"	43Y629
	3/8"	1/2"	2 3/4"	43Y654
Premier	1/8"	3/8"	2 3/4"	43Y628
	1/4"	1/2"	3"	43Y634
Reverse	1/8"	3/8"	2 3/4"	43Y644
	1/4"	1/2"	3"	43Y643
Low Stress Round Face	1/8"	3/8"	2 3/4"	43Y624
	1/4"	1/2"	3"	43Y639
Low Stress Dot Design	1/8"	3/8"	2 3/4"	43Y625
	1/4"	1/2"	3"	43Y640

YOUNG BROS. STAMP WORKS, INC. Since 1900

No. 18G326



Hand Stamps

- Steel construction
- Rockwell hardness: 50C

Make permanent marks on durable materials, including wood and many metals. Excellent for labeling tools, keys, machine components, and more.

Machine-Made—Economical, general purpose stamps provide deep, clear impressions. One thumb groove. Letter sets contain 27 pieces: A to Z and a period. Number sets contain 9 pieces: 0 to 8. Combo sets contain 36 pieces: A to Z and 0 to 8.

Specialty—Locksmith-specific stamps each contain standard messaging identifying keys as "Master," or instructing to "Do Not Copy" or "Do Not Duplicate".

Symbols—Heavy-duty set includes commonly used symbols. All contain 5 pieces: arrow, plus sign, star, asterisk, and pound sign.

Description	Shank Size Square	Shank L	Item No.
Machine-Made			
1/16" Letters	1/4"	2 3/8"	18G326
1/16" Numbers	1/4"	2 3/8"	18G327
1/16" Combo	1/4"	2 3/8"	18G328
3/32" Letters	1/4"	2 3/8"	18G329
3/32" Numbers	1/4"	2 3/8"	18G330
3/32" Combo	1/4"	2 3/8"	18G331
3/8" Letters	1/2"	2 7/8"	18G332
3/8" Numbers	1/2"	2 7/8"	18G333
1/2" Combo	1/2"	2 7/8"	18G334
Specialty			
1/16" Master	7/16"	3"	18G275
3/32" Master	1/2"	3"	18G276
1/16" Do Not Copy	7/16"	3"	18G277
3/32" Do Not Copy	1/2"	3"	18G278
1/16" Do Not Duplicate	1/2"	3"	18G279
3/32" Do Not Duplicate	3/4"	3 3/4"	18G280
Symbols			
1/16"	1/4"	2 3/8"	18G267
3/32"	5/16"	2 1/2"	18G268
1/8"	5/16"	2 1/2"	18G269
3/16"	3/8"	2 3/4"	18G270
1/4"	7/16"	3"	18G271
5/16"	1/2"	3"	18G272
3/8"	9/16"	3 1/8"	18G273
1/2"	5/8"	3 3/8"	18G274

Description	Item No.
Stamp Holder, Holds Shanks Up to 7/8" Square	18G259

Stencils

Easy-to-use stencils provide clear and legible warnings, precautions, and signs. Can be used with a variety of spray or brush-on paint.

BRASS ADJUSTABLE

Characters interlock by sliding adjacent grooves together. Easy to disassemble.

13-Pc. Number Kits—Include: one each of 0 to 9, beginner and period characters, and plain ender.

15-Pc. Number Kits—Include: one each of numbers 0 to 9, two large spacers, one dash, and one period.

33-Pc. Letter Kits—Include: one each of A to Z, ampersand (&) symbol, beginner, comma, dash, period, period ender, and spacer.

46-Pc. Number and Letter Kits—Include: one each of letters A to Z, numbers 0 to 9, comma, dash, and ampersand (&). Also include two each of large spacers, small spacers, and periods.

92-Pc. Number and Letter Kits—Include: four each of letter E; three each of A, I, N, O, S; 1 of Q; two each of remaining letters and ampersand (&) symbol; three each of numbers 1 and 0; two each of 2 to 9. Also one each of beginner, comma, dash, period ender, and plain ender; two periods; and three spacers.

PVC ADJUSTABLE

Characters interlock by sliding adjacent grooves together. Easy to disassemble.

138-Pc. Number and Letter Kits—Letters include six each of A, E, R, and S; three each of all other letters. Numbers include three each of 0 to 9. Also include three each of small spacers, larger spacers, periods, dash, dollar symbols ($), and ampersand symbols (&).

SAFETY LEGENDS

Flexible, PVC stencils are precut for application to numerous surfaces.

PARKING LOT LEGENDS AND SYMBOLS

Flexible stencils are made of high-impact, chemical-resistant plastic.

GA GRAINGER APPROVED

Description	Character H	Item No.	
Brass Adjustable Numbers and Letters			
13-Pc. Numbers	8"	1F042	
	10"	2CEC3	
	12"	1F044	
15-Pc. Numbers	1"	20Y511	
	1½"	20Y516	
	2"	20Y512	
	3"	20Y513	
	4"	20Y514	
	6"	20Y515	
33-Pc. Letters	1"	20Y505	
	1½"	20Y510	
	2"	20Y506	
	3"	20Y507	
	4"	20Y508	
	6"	20Y509	
	8"	1F045	
	10"	2CEC2	
	12"	1F047	
46-Pc. Numbers and Letters	1"	20Y518	
	2"	20Y519	
	3"	20Y520	
	6"	20Y521	
	4"	20Y522	
92-Pc. Numbers and Letters	1"	3W647	
	1½"	20Y503	
	2"	6A231	
	3"	6A232	
	4"	3W648	
	6"	20Y504	
PVC Adjustable Numbers and Letters			
138-Pc. Numbers and Letters	1"	20Y523	
	2"	20Y524	
	3"	20Y525	
Safety Legends			
Arrow	3½"	20Y539	
Caution	2½"	1F125	*
Danger	2½"	1F124	*
Fire Extinguisher	2"	1F130	*
Flammable	2"	1F127	*
Keep Aisle Clear	3"	20Y546	
No Parking	2"	1F122	*
No Smoking	2"	1F121	*
Warning	2½"	20Y538	
Watch Your Step	3"	20Y545	
Parking Lot Legends and Symbols			
Arrow (Curved)	27"	3W634	
Arrow (Straight)	20"	3W633	
Disabled	43"	3W635	
Fire Lane	12"	3W628	
Handicap Symbol	15½"	20Y542	
No Parking	12"	3W626	
No Parking Symbol	15½"	20Y543	
Reserved	12"	3W630	
Visitors	12"	3W631	

** Meet OSHA Regulation 1910.145.*



No. 6A232



No. 3W635



No. 3W626

GA GRAINGER APPROVED

Handheld Type Holder and Steel Type Kits

Make legible impression of a series of characters with one hammer blow. Use on a wide range of metal surfaces. ⅛" and 3⁄16" holders have 15-character capacity; ¼" holder has 12-character capacity. Letters/numbers/blank spaces must always equal holder's full capacity. Each kit includes 48 individual pieces: letters A to Z (2 each of A, E, R, O, S, I, U, and T), numbers 0 to 9, a dash, and 3 blank spaces.



Description	Item No.
⅛" Character Kit	1F118
3⁄16" Character Kit	1F119
¼" Character Kit	1F120



Key Ring
No. 1F098



Spring Sleeve Key Ring
No. 1F101



Nickel-Plated Beaded Chain
No. 2YB23

GA GRAINGER APPROVED

Tag Accessories

Key Rings—Designed for holding and preventing loss of checks and tags. Nickel-plated finish prevents rust. Sizes listed are inside dimensions.

Beaded Chains—Flexible chains close easily by hand.

Description	Item No.
Key Rings, Pkg. of 25	
1" Ring	1F098
1¼" Ring	1F099
1½" Ring	1F100
Spring Sleeve Key Rings, Pkg. of 25	
⅜ x 1⅞" Rectangle Ring	1F101
Beaded Chains, Pkg. of 100	
4½" Nickel Plated	2YB23
4½" Brass Plated	2YB24
6" Brass Plated	2YB25


No. 36UV50


No. 8CDJ4


No. 2CDX8


No. 15Y746


No. 2CEA8

C.H. HANSON · BRADY · SEE ALL · GA GRAINGER APPROVED

Blank Metal Tags

Allow quick identification of most types of equipment, materials, and pipes. Simply stamp description directly onto tag. Steel hand stamp kits are available on page 1934.

Shape	Dia.	Hole Size	Item No.	Brand	Pkg. Qty.
18-ga. Brass					
Round	1 3/32"	3/16"	**36UV49**	C.H. Hanson	100
Round	1"	3/16"	**36UV50**	C.H. Hanson	100
Octagon	1 1/4"	—	**8CDJ4**	C.H. Hanson	25
Round	1 1/2"	3/16"	**15Y745**	Brady	25

Shape	H	W	Hole Size	Item No.	Brand	Pkg. Qty.
18-ga. Aluminum						
Rectangle	1 3/8"	3 1/8"	—	**3XEH2**	See All Industries	100
18-ga. Brass						
Oval	1"	1 7/8"	1/8""	**2CDX8**	GA	100
Rectangle	1"	3"	1/8"	**2CDX7**	GA	100
Rectangle	1 7/16"	3"	5/32"	**2CEA6**	GA	100
Square	1 1/2"	1 1/2"	3/16"	**2CDX6**	GA	100
Square	2"	2"	3/16"	**15Y746**	Brady	25
20-ga. Stainless Steel						
Rectangle	1"	2"	1/8"	**36UV47**	C.H. Hanson	100
Rectangle	1 1/2"	3"	1/8"	**2CEA8**	GA	100

C.H. HANSON · GA GRAINGER APPROVED



No. 20Y530



No. 2YB30



No. 2YB63

BRADY

Metal Number Tags

Provide quick identification for a wide range of items such as valves and key sets. 1 1/2" dia. with 1/2" black filled numbers and 3/16" hole. Available only in unbroken series of 25 tags.

No. Series	W	Brand	Numbers Only Item No.
18-ga. Brass, Pkg. of 25			
001 to 025	1"	C.H. Hanson	**3YYN4**
001 to 025	1 1/2"	GA	**456Z05**
026 to 050	1"	C.H. Hanson	**3XCR3**
026 to 050	1 1/2"	GA	**456Z06**
051 to 075	1 1/2"	Brady	**20TD91**
076 to 100	1"	GA	**20Y530**
076 to 100	1 1/2"	Brady	**20TD92**
101 to 125	1 1/2"	GA	**1F028**
126 to 150	1 1/2"	Brady	**20TD84**

		Legend and Numbers						
No. Series	Brand	HTG (Heating) Item No.	PLBG (Plumbing) Item No.	GAS Item No.	CW (Cold Water) Item No.	HW (Hot Water) Item No.	CHWR (Chilled Water Return) Item No.	STM (Steam) Item No.
18-ga. Brass, Pkg. of 25								
001 to 025	GA	**2YB26**	**2YB30**	**2YB46**	—	—	—	—
001 to 025	Brady	—	—	—	**J6399**	—	**35TD55**	**35TC61**
026 to 050	GA	**2YB27**	**2YB31**	—	—	**2YB39**	**2YB43**	—
026 to 050	Brady	—	—	**35TA52**	—	—	—	—
051 to 075	GA	**2YB28**	—	—	**2YB36**	—	—	—
076 to 100	GA	**2YB29**	**2YB33**	—	**2YB37**	**2YB41**	—	—
20-ga. Stainless Steel, Pkg. of 25								
001 to 025	GA	**2YB50**	**2YB54**	—	—	**2YB62**	—	—
026 to 050	GA	—	—	—	**2YB59**	**2YB63**	**2YB67**	—
051 to 075	GA	—	**2YB56**	—	—	—	—	—
076 to 100	GA	—	—	—	**2YB61**	—	—	—


No. 1F132


No. 1F246

GA GRAINGER APPROVED

Security Sealing Press, Lead Seals, and Wire

Provide security and protection where tamper resistance is required. Slip wire through hole in lead seal disc and crush with hand press. Seal cannot be opened without detection. Lead seals are 1/2" dia. No. 1F246 includes 10" long 2-ply wire.

Description	Item No.
Sealing Press	**1F132**
Lead Seals with Wire, Pkg. of 100	**1F246**
Lead Seals, Pkg. of 100	**2CEC4**
12" Stainless Steel Wire, Pkg. of 100	**2CEC6**
Copper Coated 2-Ply Steel Wire, 1000' Spool	**2CEC5**

Plastic Number Tags

ACCUFORM · GA GRAINGER APPROVED

Color-coded ABS plastic tags are clearly stamped with 9/32" numbers to give you a variety of identification options. Top attachment hole is 1/8". 100-tag sets of sequential number series.

▶CHOOSE: No. Series	▶CHOOSE: Color Combination	Brand	1 1/8" dia. Item No.	1 1/4" dia. Item No.	1"H x 3"W Item No.
001 to 100	Black/White	Accuform	**6KXP0**	—	—
001 to 100	Green/White	Accuform	**6KXP3**	—	—
001 to 100	Red/White	Accuform	**6KXP6**	—	—
001 to 100	White/Black	Accuform	**6KXP9**	—	—
101 to 200	Red/White	Accuform	**6KXP7**	—	—
201 to 300, 101 to 200	Black/White, Green/White, Red/White	GA	—	**H4147**	—
101 to 200, 201 to 300	Black/White, Green/White, Red/White	GA	—	—	**H4150**
101 to 200, 201 to 300	Green/White, Red/White	GA	**H4273**	—	—
201 to 300	Red/White	Accuform	**6KXP8**	—	—



Red/White
No. H4150



Green/White
No. H4273

Arc Flash Labels

BRADY

- Meet NEC labeling requirements
- Meet OSHA and NFPA 70E 2015 Edition requirements

Adhesive vinyl labels stick permanently to a variety of surfaces to warn of potential arc flash hazard.

Legend	H	W	Item No.	Pkg. Qty.
Polyester				
Danger Arc Flash Hazard Appropriate PPE Required, Text Only	3½"	5"	**5RB56**	5
Danger Arc Flash Hazard Appropriate PPE Required with Pictogram	3½"	5"	**5RB54**	5
(Bilingual) Danger Peligro Arc Flash Hazard Appropriate PPE Required Do Not Operate Controls or Open Covers Without Appropriate Personal Protection Equipment. Failure to Comply May Result In Injury or Death (Arc Flash Picto) Refer to NFPA 70E for Minimum PPE Requirements	3½"	5"	**5RB58**	5
Warning Arc Flash Hazard Appropriate PPE Required Do Not Operate Controls or Open Covers Without Appropriate Personal Protection Equipment. Failure to Comply May Result In Injury or Death. Refer to NFPA 70E for Minimum PPE Requirements	3½"	5"	**5RB55**	5
Warning Arc Flash Hazard Appropriate PPE Required with Pictogram, English/Spanish Text	3½"	6"	**5RB57**	5
Warning Arc Flash Hazard. Appropriate PPE Required. Failure to Comply Can Result In Death or Injury. Refer to NFPPA 70 E	3½"	5"	**9GCT6**	5
Warning Arc Flash Hazard Appropriate PPE Required	3½"	5"	**5RB53**	5
Vinyl				
Danger Arc Flash and Shock Hazard Appropriate PPE Required Flash Protection Boundary____..., Etc	4"	6"	**5RB62**	5
Warning Arc Flash and Shock Hazard Appropriate PPE Required Flash Protection Boundary____..., Etc.	4"	6"	**5RB61**	5
Warning Shock and Flash Hazard Flash Boundary____ Vac Shock Hazard When____..., Etc	7"	5"	**5RB63**	5
Warning Arc Flash and Shock Hazard Appropriate PPE Required Flash Hazard Category____..., Etc.	5"	7"	**5RB59**	5



No. 5RB54

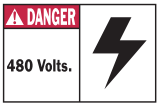


No. 5RB61

Equipment, Drum, and Cabinet Labels

BRADY

Legend	H	W	Item No.	Pkg. Qty.
Equipment Labels				
480 Volts	3½"	5"	**6RM82**	5
Electrical Hazard	3½"	5"	**6RM98**	5
Pinch Point	3½"	5"	**6RN66**	5
Keep Hands Clear When Equipment is Running	5"	3½"	**6RN82**	5
Permit-Required Confined Space Do Not Enter	3½"	5"	**1VC65**	1
Hard Hat Required	3½"	5"	**1VC68**	1
Lock-Out Point	3½"	5"	**4VK17**	5
Drum Labels				
Contains Asbestos Fibers May Cause Cancer Causes Damage To Lungs Do not Breathe Dust Avoid Creating Dust	3½"	5"	**1K945**	1
Biohazard with Pictogram	3½"	5"	**5AH27**	1
No More Than One Inch of Residue Remains on the Bottom of This Drum. Dum is Empty By EPA Standards. Last Contained_____Date_____ Department_____Signature_____	6"	6"	**1UW40**	100
Federal Laws Prohibit Improper Disposal If Found, Contact The Nearest Police or Public Safety Authority or The U.S. Environmental Protection Agency, Generator Information: _____etc. Handle With Care!	6"	6"	**5AH44**	50
Optional Information Shipper_____ Address_____City, State, Zip_____Contents_____	6"	6"	**5AP83**	50
Used Oil	6"	6"	**1UW48**	100
Contents_____Accumulation Start Date_____Shipper_____ Address_____City,State,Zip_____	6"	6"	**1UW39**	100
Cabinet Labels				
Flammable Keep Fire Away	3½"	12"	**3DVY9**	1
Acid	3½"	12"	**3DVZ1**	1
Base	3½"	12"	**3DVZ2**	1
Spill Response Equipment	3½"	12"	**3DVZ4**	1
Caution Corrosive	3½"	12"	**3DVZ5**	1
Chemical Storage	3½"	12"	**3DVZ6**	1
First Aid Supplies	3½"	12"	**3DVZ8**	1



No. 6RM82



No. 6RM98



No. 6RN66



No. 6RN82



No. 1VC65



No. 1VC68



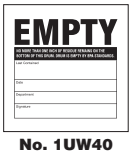
No. 4VK17



No. 1K945



No. 5AH27



No. 1UW40



No. 5AH44



No. 5AP83



No. 1UW48



No. 1UW39



No. 3DVY9



No. 3DVZ1



No. 3DVZ2



No. 3DVZ4



No. 3DVZ5



No. 3DVZ6



No. 3DVZ8

BRADY

NFPA Placard System Kits

Customizable placards identify potential hazards indoors or outdoors. Self-Sticking Vinyl Kits include 10 blank NFPA placards; Fiberglass Kit includes 1 placard. All kits include 10 characters of each: 0 to 4, W ("Use No Water" symbol), radiation symbol, OXY, ACID, COR, ALK.

Description	Character H	Item No.
Self-Sticking Vinyl	4"	**1UR98**
Self-Sticking Vinyl	6"	**3RY80**
Fiberglass	6"	**1UR99**



No. 1UR98

ACCUFORM

NFPA Flip Placard Sign

Printed aluminum flip panels display the proper NFPA hazard information required by the NFPA 704 Standard. Ideal for areas where hazardous materials or chemicals change.

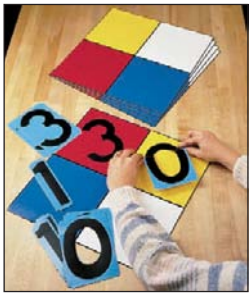
H	W	Item No.
15½"	15½"	**6KXW7**



BRADY

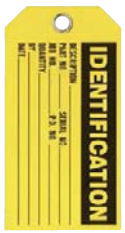
Hazardous Material Placards

Use placards to identify hazardous chemical containers and dedicated hazardous material storage areas. Die-cut numbers to mark the corners of placards are sold separately.



Description/ Character	Item No.	Pkg. Qty.
Adhesive-Backed Vinyl Placards		
Use 2"H Numbers	**2BC56**	10
Use 4"H Numbers	**3AC80**	10
Fiberglass Placards		
Use 4"H Numbers	**5AZ67**	1
Use 6"H Numbers	**6G873**	1
2"H Die-Cut Numbers		
0	**4T734**	10
1	**4T735**	10
2	**4T736**	10
3	**4T737**	10
4	**4T738**	10

Description/ Character	Item No.	Pkg. Qty.
4"H Die-Cut Numbers		
0	**5AH22**	10
1	**5AX79**	10
2	**3AM10**	10
3	**5AX42**	10
4	**4AD85**	10
6"H Die-Cut Numbers		
0	**6DJ19**	10
1	**6DJ20**	10
2	**6DJ21**	10
3	**6DJ22**	10
4	**6DJ23**	10



No. 2RMV1



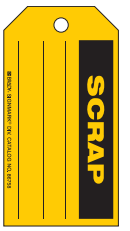
No. 2RMV3



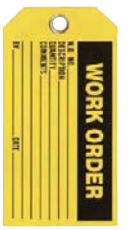
No. 2RMV5



No. 2RMV6



No. 4ZH21



No. 2RMV2



No. 3VAV9



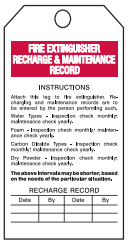
No. 3VAV3



No. 6U879



No. 2RMW1



No. 3AZ37



No. 2RMU7



No. 2RMU5



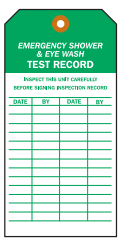
No. 2RMU8



No. 2RMU4



No. 2RMU9



No. 5KR83



No. 5KR78



No. 1D710



No. 5KR79



No. 1AJ28



No. 48RU07



No. 48RU10



No. 48RU13



No. 48RU16



No. 48RU19



No. 1TAC7



No. 5ENZ1


No. 32MJ43

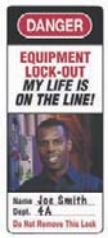

No. 35RZ52

Safety and Maintenance Tags

BRADY · GA GRAINGER APPROVED · Condor

Pkg. Qty.	BRADY Item No.	GA Item No.	CONDOR Item No.
Cardstock, 5¾" x 3" with String Ties			
100	4ZH18	2RMV1	—
100	—	4ZH20	—
100	—	2RMV3	—
100	4ZH22	2RMV5	—
100	—	4ZH23	—
100	—	2RMV6	—
100	4ZH21	—	—
100	4ZH19	2RMV2	—
25	3VAV9	—	—
Economy Polyester 5¾" x 3" with Nylon Ties			
25	3VAV3	—	—
25	6U898	—	—
25	5T152	—	—
25	5T153	—	—
25	6U879	—	—
25	5T150	—	—
25	5T151	—	—
25	6T895	—	—
25	5T155	—	—
25	5T156	—	—
10	5KT90	—	—
25	4ZH28	2RMW1	—
25	5T158	—	—
25	—	3AZ37	—
25	—	2RMX5	—
25	—	6U908	—
Jumbo Economy Polyester 7" x 4" with Nylon Ties			
10	—	4ZH14	—
10	—	2RMU6	—
10	4ZH15	2RMU7	—
10	—	4ZH13	—
10	—	2RMU5	—
10	—	4ZH16	—
10	—	2RMU8	—
10	4ZH12	2RMU4	—
10	4ZH17	2RMU9	—
Polyester Laminate 5¾" x 3" with Nylon Ties			
25	5T822	—	—
25	5T823	—	—
25	5T824	—	—
25	5T825	—	—
10	—	5KR83	—
10	—	5KR78	—
25	1D710	—	—
10	—	5KR79	—
Polyester Self-Laminating 5¾" x 3" with Nylon Ties			
10	1AJ28	—	—
Polyethylene Plastic 5¾" x 3¼" with Nylon Ties			
10	—	—	48RU07
25	—	—	48RU08
100	—	—	48RU09
10	—	—	48RU10
25	—	—	48RU11
100	—	—	48RU12
10	—	—	48RU13
25	—	—	48RU14
100	—	—	48RU15
10	—	—	48RU16
25	—	—	48RU17
100	—	—	48RU18
10	—	—	48RU19
25	—	—	48RU20
100	—	—	48RU21
Cardstock Perforated 7½" x 4" with String Ties			
25	1TAC7	—	—
Cardstock Laminate Perforated, 5¾" x 3" with (100) String Fasteners			
100	—	5ENZ1	—
Cardstock Perforated 6¼" x 3⅛" with Wire Fasteners			
100	—	9HN35	—
Cardstock, 5¾" x 2⅞"			
1000	32MJ43	—	—
Tyvek, 5¾" x 2⅞"			
1000	35RZ52	—	—

** Contains a clear adhesive overlaminate flap.*



No. 4ENF4



No. 8A953

No. 22A863
(Padlock Sold Separately)





No. 3PDD8

Master Lock BRADY IDESCO Safety

Padlock Identification Labels

Padlock labels quickly identify padlocks that are being used for lockout/tagout. They help send a clear message to workers when a machine is down for service or maintenance. No. 3PDD8 Includes labels in English, Spanish, and French.

Description	H	W	Brand	Item No.	Pkg. Qty.
Thermoplastic Body Padlock Labels					
Photo ID with Name/Dept./My life is on the line! And Danger Header	2⅜"	1"	Master Lock	**4ENF4**	6
Photo ID with Name/ID and Danger Header	1¼"	1"	Master Lock	**22A863**	6
Steel Body Padlock Labels					
Side 1: Danger Locked Out Do Not Remove/Side 2: Property of...Etc.	¾"	4 ½"	Brady	**15Y662**	6
Danger: Do Not Remove This Lock	¾"	5"	Brady	**8A953**	25
Danger: This Lock to Be Removed Only By	¾"	5"	Brady	**8A954**	25
Danger: Equipment Locked Out	¾"	5"	Brady	**8REK1**	25
Shrink-to-Fit Padlock Sleeves					
Danger: Locked Out/By/Dept/Phone, Blue Color	2⅛"	1½"	Idesco	**20KK94**	25
Danger: Locked Out/By/Dept/Phone, Green Color	2⅛"	1½"	Idesco	**20KK95**	25
Danger: Locked Out/By/Dept/Phone, Red Color	1⅝"	1½"	Idesco	**20KK97**	25
Danger: Locked Out/By/Dept/Phone, Yellow Color	1⅝"	1½"	Idesco	**20KK98**	25
Nylon Body Padlock Labels					
Danger Locked Out/Do Not Remove/Property Of	1⅛"	3"	Brady	**3PDD8**	6
Danger Do Not Remove This Lock/ This Lock Belongs To/Name/Dept.	¾"	5"	Brady	**6T791**	40
Aluminum Body Padlock Labels					
Side 1: Danger Locked Out Do Not Remove/Side 2: Property of...Etc.	⅘"	1-1/9"	Brady	**15Y659**	6
Photo ID with Name/ID and Danger Header	2¾"	1¼"	Master Lock	**4ENF5**	6



No. 4XR16



No. 3WPT7



No. 15Y695



No. 36D428

BRADY ZING

Tag Holder, Stations, and Centers

- Contents sold separately, except for No. 3WPT7

Tag Holder—Comes with mounting hardware.

Tag Stations—No. 3WPT7 includes 25 tags, tag holder, marking pen, and 2 hooks. No. 15Y695 features 10 pockets for tags, ties, pens, etc.

Tag Centers—Wall-mountable units feature 8 clear, flexible pockets. No. 36D428 has 8 hooks to hang tags. Constructed of high post-consumer recycled materials.

Description	H	W	D	Brand	Mfr. Model	Item No.
Tag Holder						
Single Pocket	7½"	4¼"	1½"	Brady	TH2	**4XR16**
Tag Stations						
Single Pocket Station	3½"	10"	—	Brady	TG978K	**3WPT7**
10 Pocket Station	22"	16½"	2¼"	Brady	81773	**15Y695**
Tag Centers						
8 Pocket Center	15¾"	23½"	2"	Brady	TC8	**3ZM60**
8 Pocket Center	15"	15"	2½"	Zing	2670	**36D428**



No. 4DMG1



No. 3VAX4



No. 3VCU6



No. 5ENY8



No. 3VAY4

Specialty Tags

ACCUFORM BRADY

Tags have two-sided printing except Loop Strap design. Tags with ⅜" hole accommodate a standard padlock shackle.

Description	Brand	Item No.	Pkg. Qty.
15 mil. Plastic, 5¾" x 3¼" with 8" Self-Locking Tie Strap			
Do Not Operate	Grainger Approved	**4DMG1**	10
Do Not Start	Accuform	**4DMG2**	10
23 mil. Plastic, 5¼" x 3¼" with 4" Loop Strap			
Danger	Accuform	**3VAX7**	25
Caution	Accuform	**3VAX8**	25
Notice	Accuform	**3VAX9**	25
Do Not Operate Signed By ___ Date ___ Phone ___	Accuform	**3VAX3**	25
Do Not Start	Accuform	**3VAX4**	25
Out Of Service	Grainger Approved	**3VAX5**	25
Do Not Enter	Accuform	**3VAX6**	25
Do Not Open Valve	Accuform	**3VAX2**	25
Blank Tag, White Color	Accuform	**3VAY1**	25
Blank Tag, Yellow Color	Accuform	**3VAY2**	25
Do Not Close This Valve	Accuform	**3VAX1**	25
⅛" Rigid Recycled Polycarbonate, 5⁷⁄₁₆" x 3⅛" with ⅜" Hole			
Do Not Operate	Accuform	**3VCU6**	25
Do Not Open Valve	Accuform	**3VCU7**	25
Do Not Close This Valve	Accuform	**3VCV2**	25
Danger (Blank)	Accuform	**3VCV3**	25
Adhesive Write-On Label for Polycarbonate Tags			
Blank	Accuform	**3VCV4**	100
.010 Laminated Perforated Polyester with (10) Nylon Ties			
Full Cylinder Ready For Use	Brady	**5ENY8**	10
Empty Cylinder Do Not Use	Brady	**5ENY9**	10
Cylinder Empty-In Use-Full	Brady	**5ENZ0**	10
Cardstock Laminate Perforated, 5¾" x 3" with (100) String Fasteners			
Cylinder Empty-In Use-Full	Grainger Approved	**5ENZ1**	100
10 mil. Perforated Cardstock, 6¼" x 3" with ⅜" Hole			
Do Not Operate	Grainger Approved	**3VAY4**	250 *
Danger (Blank)	Accuform	**3VAY3**	250 *

Includes 250 perforated tags on a single roll.

BRADY Condor ACCUFORM

Bilingual Safety Tags

Two-sided tags have messaging in English on one side and in Spanish on the reverse, except Nos. 8XCV1, 8CMR9, 9AC26, and 3WPG1 have English and Spanish on both sides.



No. 15Y636

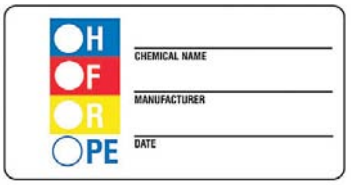


No. 6T848

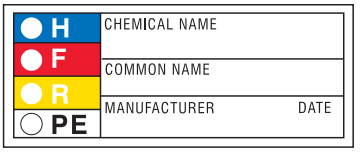
Legend (English)	H	W	Brand	Item No.	Pkg. Qty.
Cardstock with String Ties					
Do Not Operate This Lock/Tag May Only Be Removed By	5¾"	3"	Brady	**3VAV4**	25
Out Of Service/Fuera De Servicio (Front), Out Of Service/Fuera De Servicio (Back)	5¾"	3"	Grainger Approved	**8XCV1**	100
Economy Polyester with Nylon Ties					
Do Not Operate This Lock/Tag May Only Be Removed By (Striped Background)	5¾"	3"	Brady	**3VAU9**	25
Do Not Operate This Lock/Tag May Only Be Removed By (Solid White Background)	5¾"	3"	Brady	**15Y636**	25
Do Not Start Equipment Locked Out/No Encender Equipo Cerrado Con Llave	5¾"	3"	Condor	**437R11**	25
Do Not Start Men Working On This Machine/ No Encender Trabajando En Esta Maquina	5¾"	3"	Condor	**437R12**	25
Out Of Service/Fuera De Servicio (Front), Out Of Service/Fuera De Servicio (Back)	5¾"	3"	Grainger Approved	**8CMR9**	10
Heavy-Duty Polyester with Nylon Ties					
Do Not Operate This Lock/Tag May Only Be Removed By Name ___ Date ___	5½"	3"	Brady	**6T848**	25
Do Not Operate This Lock/Tag May Only Be Removed By	5½"	3"	Brady	**15Y635**	25
Do Not Start This Machine/¡no Ponga En Marcha Esta Maquina!	7"	4"	Brady	**9AC26**	10
Vinyl					
Equipment Locked Out	5¾"	3"	Brady	**3WPU1**	25
Do Not Operate This Tag And Lock To Be Removed Only By Person Below/No Active Este Aviso O Candado Solo Remuevido Por Persona Autorizada En Listado	3"	2"	Brady	**15Y640**	1
Plastic with Metal Grommet					
Unsafe Do Not Use/Inseguro No Lo Use	5⅛"	3⅜"	Accuform	**3WPG1**	5



No. 3TL67



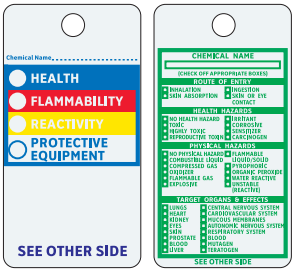
No. 9TXM3



No. 9DT07



No. 8AKA0



No. 8XZ05

BRADY BADGER TAG & LABEL CORPORATION HARRIS INDUSTRIES, INC.

HMIG Write-On Labels and Tags

Use Hazardous Materials Identification Guide (HMIG) labels and tags to identify chemicals.

Description	H	W	Brand	Item No.	Pkg. Qty.
Self-Adhesive Paper Labels					
Blank	⅞"	⅞"	Brady	**9WYY7**	750
	2"	1¼"	Brady	**3TL75**	500
	2⅞"	⅞"	Brady	**8ARM1**	500
	3⅞"	3⅞"	Brady	**8AAR4**	100
	5"	3"	Brady	**3TL67**	500
	5⅞"	4"	Brady	**8AAR6**	100
Chemical Name/Common Name/Manufacturer/Date	1⅛"	3⅛"	Brady	**8NDC8**	1000
Self-Adhesive Vinyl Labels					
Blank	2"	1¼"	Brady	**3TL76**	500
Self-Laminate Paper Labels					
Chemical Name/Manufacturer/Date	1½"	3"	Badger Tag & Label Corp	**9TXM3**	500
Chemical Name/Common Name/Manufacturer	1½"	3"	Badger Tag & Label Corp	**9NMH1**	500
Chemical Name/Common Name/Manufacturer/Date	1½"	3⅞"	Brady	**9DT07**	1000
Self-Laminate Polyester Labels					
Blank with PPE Index Legends	2"	3½"	Brady	**8AKA0**	25
	3"	5"	Brady	**9EZF1**	25
	4"	7"	Brady	**8UMN9**	25
Self-Adhesive Vinyl Labels					
Blank	5"	3"	Brady	**3TL68**	500
Chemical Name/Manufacturer/Date	1"	3"	Harris Industries	**9RTD1**	720
Vinyl Tags					
Blank	5¾"	3"	Brady	**8XZ05**	25



No. 8AEC9



No. 8AAK2

BRADY

Cabinet Contents Signs

Magnetic signs attach to any steel cabinet and remove easily. Each sign has space to identify up to six chemicals; includes room for hazard rating using HMIG or NFR system, chemical name, and quantity for each item stored inside. Measure 15"H x 12"W.

Description	Mfr. Model	Item No.
HMIG Rating Sign	99189	**8AEC9**
NFR Hazard Rating Sign	30676	**8AAK2**



No. 8A206



No. 8TPF1

BRADY BADGER TAG & LABEL CORPORATION HARRIS INDUSTRIES, INC.

NFPA Write-On Labels

Self-adhesive labels feature color-coded National Fire Protection Association (NFPA) National Fire Rating diamonds; write in the correct information on each label to identify hazard rating.

Description	H	W	Brand	Item No.	Pkg. Qty.
Paper					
Blank	5"	3"	Brady	**3TL69**	500
Self-Laminate Paper, Permanent Adhesive, Polyester Laminate Flap					
Chemical/Owner/Date	1⅛"	2⅞"	Badger Tag & Label Corp	**8PAY9**	500
Chemical Name/Common Name/Mfr.	1⅛"	2⅞"	Badger Tag & Label Corp	**8A206**	500
Vinyl					
Chemical Name/Common Name/Mfr.	1"	3"	Harris Industries	**8TPF1**	720
Blank	5"	3"	Brady	**4T771**	50
Blank	5"	3"	Brady	**3TL70**	500



No. 6R702



No. 6R694



No. 6R726



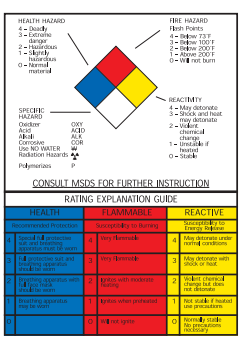
No. 6R696

BRADY

Hazardous Material Shipping Labels

Diamond-shaped, self-sticking vinyl labels can be used on containers, vehicles, and dispensers containing hazardous products. Labels withstand temps. down to -50°F. 500 labels per roll.

Legend	W	H	Item No.
Flammable Liquid 3	4"	4"	**6R702**
Nonflammable Gas 2	4"	4"	**6R694**
(Misc. Hazardous Materials) 9	4"	4"	**6R726**
Flammable Gas 2	4"	4"	**6R696**



BRADY

Hazardous Information Placard

Graphically explains the National Fire Protection Association (NFPA) hazard identification coding system. Four mounting holes for quick installation. Use indoors or outdoors.

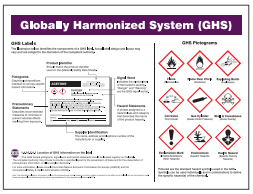
Material	H	W	Item No.
Fiberglass	14"	10"	**3AC37**

Description	H	W	Brand	Item No.
GHS Training Posters				
HazCom Pictogram Wall Chart	24"	36"	GHS Safety	**10X329**
HazCom Labeling Poster	18"	24"	GHS Safety	**10X328**
	24"	36"	GHS Safety	**10X327**
Label Elements and Symbols Poster, English	11"	8½"	LabelMaster	**45H623**
	17"	22"	Accuform	**38W961**
	20"	28"	LabelMaster	**45H621**
Label Elements and Symbols Poster, Spanish	11"	8½"	LabelMaster	**45H624**
Pictogram Poster, English	20"	26"	J.J. Keller	**49VR98**
Pictogram Poster, English and Spanish	20"	26"	J.J. Keller	**49VT01**
SDS Training Posters				
English	11"	8½"	LabelMaster	**45H627**
	20"	28"	LabelMaster	**45H625**
	22"	28"	Accuform	**38W962**
Spanish	20"	28"	LabelMaster	**45H626**
GHS Laminated Plastic Wallet Cards				
Workplace Safety, Pkg. of 25	2½"	3½"	LabelMaster	**45H629**
Chemical/HAZMAT Training, Pkg. of 50	4¼"	2½"	GHS Safety	**10X331**
GHS Laminated Paper Wallet Cards				
Hazcom, Pkg. of 10	4¼"	3⅜"	J.J. Keller	**21EX11**
HCS/GHS Paperback Handbooks				
English	8¼"	5¼"	J.J. Keller	**21EX10**
Spanish	8¼"	5¼"	J.J. Keller	**21EX14**

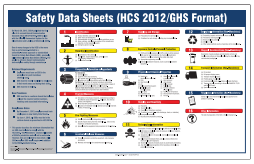
GHS Posters, Wallet Cards, and Handbooks

Posters and Wallet Cards— Easily convey the pictograms and safety data sheet (SDS) format for physical, health, and environmental hazards required by the HazCom Globally Harmonized System (GHS).

Handbooks—Provide information to help your employees navigate HazCom 2012/GHS's classification and labeling standards.



No. 38W961



No. 38W962


No. 10X331

GHS Pictogram Labels

Identify physical, health, and environmental hazards in accordance with the HazCom Globally Harmonized System (GHS) for classifying chemical hazards and communicating health and safety information.


Corrosion


Environment


Exclamation Mark


Exploding Bomb


Flame


Flame Over Circle


Gas Cylinder


Health Hazard


Skull and Crossbones

▶CHOOSE: Legend	COATED PAPER ½" 1820/Pkg. Item No.	COATED PAPER 1" 1120/Pkg. Item No.	COATED PAPER 4" x 4" 500/Roll Item No.
GHS Safety			
Corrosion	**10X358**	**10X341**	**23J582**
Environment	**10X363**	**10X346**	—
Exclamation Mark	**10X361**	**10X344**	**23J585**
Exploding Bomb	**10X357**	**10X340**	**23J581**

▶CHOOSE: Legend	COATED PAPER ½" 1820/Pkg. Item No.	COATED PAPER 1" 1120/Pkg. Item No.	COATED PAPER 4" x 4" 500/Roll Item No.
Flame	**10X359**	**10X342**	**23J583**
Flame Over Circle	**10X355**	**10X338**	**23J579**
Gas Cylinder	**10X356**	**10X339**	**23J580**
Health Hazard	**10X360**	—	**23J584**
Skull and Crossbones	**10X362**	**10X345**	**23J586**

▶CHOOSE: Legend	COATED PAPER ⅝" 39/Card Item No.	COATED PAPER 1" 16/Card Item No.	COATED PAPER 2" 4/Card Item No.	VINYL ⅝" 39/Card Item No.	VINYL 1" 16/Card Item No.	VINYL 2" 4/Card Item No.
Brady						
Corrosion	**39F457**	**39F475**	**39F493**	**39F448**	**39F466**	**39F484**
Environment	**39F461**	**39F479**	**39F497**	**39F452**	**39F470**	**39F488**
Exclamation Mark	**39F460**	**39F478**	**39F496**	**39F451**	**39F469**	**39F487**
Exploding Bomb	**39F453**	**39F471**	**39F489**	**39F444**	**39F462**	**39F480**
Flame	**39F454**	**39F472**	**39F490**	**39F445**	**39F463**	**39F481**
Flame Over Circle	**39F455**	**39F473**	**39F491**	**39F446**	**39F464**	**39F482**
Gas Cylinder	**39F456**	**39F474**	**39F492**	**39F447**	**39F465**	**39F483**
Health Hazard	**39F459**	**39F477**	**39F495**	**39F450**	**39F468**	**39F486**
Skull and Crossbones	**39F458**	**39F476**	**39F494**	**39F449**	**39F467**	**39F485**

▶CHOOSE: Legend	COATED PAPER 1" 250/Roll Item No.	COATED PAPER 1" 500/Roll Item No.	COATED PAPER 2" 250/Roll Item No.	COATED PAPER 2" 500/Roll Item No.	POLYESTER 1" 250/Roll Item No.	POLYESTER 1" 500/Roll Item No.	POLYESTER 2" 250/Roll Item No.	POLYESTER 2" 500/Roll Item No.
Accuform								
Corrosion	**38W891**	**38W892**	**38W928**	**38W929**	**38W889**	**38W890**	**38W926**	**38W927**
Environment	**38W908**	**38W909**	**38W944**	**38W945**	**38W906**	**38W907**	**38W942**	**38W943**
Exclamation Mark	**38W904**	**38W905**	**38W940**	**38W941**	**38W902**	**38W903**	**38W938**	**38W939**
Exploding Bomb	**38W887**	**38W888**	**38W924**	**38W925**	**38W885**	**38W886**	**38W922**	**38W923**
Flame	**38W879**	**38W880**	**38W916**	**38W917**	**38W877**	**38W878**	**38W914**	**38W915**
Flame Over Circle	**38W883**	**38W884**	**38W920**	**38W921**	**38W881**	**38W882**	**38W918**	**38W919**
Gas Cylinder	**38W895**	**38W896**	**38W932**	**38W933**	**38W893**	**38W894**	**38W930**	**38W931**
Health Hazard	**38W912**	**38W913**	**38W948**	**38W949**	**38W910**	**38W911**	**38W946**	**38W947**
Skull and Crossbones	**38W899**	**38W901**	**38W936**	**38W937**	**38W897**	**38W898**	**38W934**	**38W935**

GHS Signs

Safety data sheet locator signs comply with HazCom 2012/HazCom Globally Harmonized System (GHS) standards, except No. 38W971. Lyle Signs are made from recycled aluminum and have LEED Accreditation, except No. 484M19. Accuform Sign® high-impact plastic sign projects from the wall and is viewable from front and sides; includes mounting hardware.

Legend	H	W	Brand	Item No.
3-Sided				
SDS (w/Down Arrows)	10"	8¼"	Lyle	**460N37**
SDS Station (w/ Down Arrows)	10"	8¼"	Lyle	**460N30**
L-Shaped (2-Sided)				
SDS	8"	8"	Lyle	**484M20**
SDS Station	8"	8"	Lyle	**484M19**
V-Shaped (2-Sided)				
SDS	6"	7½"	Lyle	**460L61**
SDS Station	6"	7½"	Lyle	**460L62**
SDS	8"	18"	Accuform	**38W971**



No. 460N30

No. 38W971





No. 484M20

No. 460L62



No. 10X326



No. 38W976



No. 36D421



No. 38W959



No. 36D378

GHS/SDS Compliance Centers

GHS ZING ACCUFORM

- Each includes 1½" binder

Keep your HazCom 2012/Globally Harmonized System (GHS) documents organized and accessible to employees with highly visible display and storage. SDS (safety data sheet), Right to Understand (Know), and other markings reinforce your training and compliance messages. GA Right to Understand Compliance Centers include 37½"L chain and mounting hardware. ZING® recycled models are made from min. 70% postconsumer recycled content. ACCUFORM® centers feature a wire rack with sign.

Material	Description	H	W	D	Brand	Item No.
GHS Compliance Centers						
Plastic Mounting Board with Metal Pocket	Single	24"	18"	4½"	GHS Safety	**10X326**
	Double	36"	24"	4½"	GHS Safety	**10X325**
Right to Understand SDS Compliance Centers						
Recycled Aluminum Board with Metal Pocket and Binder	Single	19¼"	13½"	4¾"	ZING	**36D416**
	Single, Bilingual	19¼"	13½"	4¾"	ZING	**36D419**
	Double	23¼"	27½"	4¾"	ZING	**36D417**
	Double, Bilingual	23¼"	27½"	4¾"	ZING	**36D420**
Right to Understand/WHMIS/SDS Compliance Center						
Aluminum Mounting Board with PVC Coated Wire Rack	Single	20"	15"	—	Accuform	**38W976**
Right to Understand SDS Training Centers						
Recycled Aluminum Board with Metal Pocket and (10) Booklets	Single	23¼"	27½"	4¾"	ZING	**36D418**
	Single, Bilingual	23¼"	27½"	4¾"	ZING	**36D421**
SDS Information Centers						
Recycled Plastic Board with Holder	Single	11½"	11"	2¾"	ZING	**45L106**
Aluminum Mounting Board with PVC Coated Wire Rack	Single	20"	15"	5"	Accuform	**38W959**
Plastic Mounting Board with Metal Pocket	Single	24"	18"	4½"	GHS Safety	**23J576**
	Double	36"	24"	4½"	GHS Safety	**23J574**
SDS Storage Cabinets with Binder and 300 Sheets						
Recycled Stainless Steel	Single	12"	14"	3"	ZING	**36D378**
Metal	Single	14¼"	14¼"	5"	GHS Safety	**41G466**



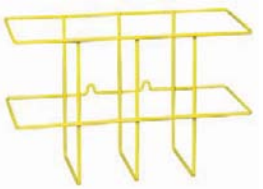
No. 39F501



No. 41G465



No. 36D427



No. 5RB49

BRADY ZING GHS

SDS Binders and Binder Holder

Binders keep safety data sheets (SDSs) protected and readily available to employees as a complement to training. Capacity: 1½" binders hold up to 300 sheets, 2½" up to 500, 3" up to 600.

Description	Brand	Item No.	
SDS Binders			
1½" (Yellow) with Chain	Brady	**39F501**	
1½" (Red)	ZING	**36D422**	*
1½" (White) with A to Z Dividers	GHS Safety	**10X332**	
2½" (Red)	ZING	**36D423**	*
3" (Yellow) with Chain	Brady	**39F502**	
3" (Red)	ZING	**36D424**	*
3" (White) with A to Z Dividers	GHS Safety	**41G465**	
SDS Binders, Bilingual			
1½" (Yellow) with Chain	Brady	**39F503**	
1½" (Red)	ZING	**36D425**	*
2½" (Red)	ZING	**36D426**	*
3" (Yellow) with Chain	Brady	**39F504**	
3" (Red)	ZING	**36D427**	*
Binder Holder and Sheet Protectors			
Basket Binder Holder (Yellow), 9"H x 14"W x 4½"D	Brady	**5RB49**	
Sheet Protectors, Pkg. 10	Brady	**9NU32**	

**** Made from 100% post-consumer recycled content.***

No. 6G954





No. 39F498

BRADY

Right to Understand (Know) Compliance Centers and Training Booklets

Centers keep important documents easily accessible. No. 6G954 includes Hazard Awareness Chart with capacity to hold one binder. Nos. 39F498 and 39F499 include a 1½" binder.

Material	Description	H	W	D	Item No.
Right to Understand Compliance Centers					
Clear Acrylic Holder	Single	14¼"	12"	2"	**6G954**
PVC Coated Wire Rack	Single	20"	14"	4.5"	**39F498**
	Single, Bilingual	20"	14"	4.5"	**39F499**
Right to Understand Training Booklets					
Paperback	English, Pkg. of 10	8½"	5⅜"	—	**5T282**
	Spanish, Pkg. of 10	8½"	5⅜"	—	**3ZM65**
	English, Pkg. of 15	2"	12"	12"	**39F907**



No. 3LY54

BRADY

SOP, Emergency, and OSHA Information Centers

Each includes a binder with coated wire holder. Nos. 3LY54 and 5RE38 feature polystyrene board and a 1½" attachable chain. Mounting hardware included. Kit No. 3LY53 is complete with one pad each of OSHA 300A, 300E, and 3001E forms; poster board; and notice and V-style information signs.

Description	Item No.
SOP Center	**3LY54**
Emergency Procedures Center	**5RE38**
OSHA Record-Keeping Center	**3LY53**

Safety and Regulatory Compliance Training

DVD kits include DVD program, employee quiz, training certificate, 5 posters, and 30 employee booklets. DVD programs are packaged in a 3-ring binder with instructor's guide, DVD, reproducible scheduling and attendance forms, employee quiz, and training certificate.

General Safety—Provides materials needed to promote and conduct a complete safety meeting.

OSHA and DOT Compliance—Provides materials facilities need to comply with OSHA and DOT regulations.

Construction Safety—Provides important safety and regulatory compliance training depicting activities on actual commercial and residential construction sites.

HAZWOPER—Provides employees with the information the regulation requires them to receive in their training sessions.

Laboratory Safety—Provides lab-specific training showing activities taking place in actual laboratories.

MARCOM



No. 6GWP9
DVD Program



No. 6GWR7
DVD Kit

Description	DVD KITS Item No.	DVD PROGRAMS Item No.
General Safety		
Accident Investigation	6GWF9	6GWJ1
Back Safety	3YKW4	3YLE1
Compressed Gas Cylinders	—	3YLE3
Crane Safety	6GWG3	6GWJ5
Driving Safety	3YKX1	3YLE5
Drug and Alcohol Abuse for Employees	3YKX4	3YLE7
Electrical Safety	—	3YLF2
Eye Safety	3YKZ1	3YLF8
Fall Protection	3YKZ4	3YLG1
Industrial Fire Prevention	3YKZ7	3YLG3
Fire Prevention in Healthcare Facilities	—	6GWJ7
Fire Extinguishers	6GWH3	6GWK5
First Aid	—	3YLG7
Hand and Power Tool Safety	3YLA4	3YLG9
Hand, Wrist and Finger Safety	3YLA6	3YLH2
Dealing with Hazardous Spills	6GWG4	6GWJ6
Hazardous Materials Labels	6GWG7	6GWJ9
Heat Stress	3YLA8	3YLH4
Industrial Ergonomics	3YKY4	3YLF4
Ladder Safety	3YLC1	3YLH6
Machine Guard Safety	6GWG8	6GWK0
Material Handling Safety	3YLC3	3YLH8

Description	DVD KITS Item No.	DVD PROGRAMS Item No.
General Safety (Cont.)		
Office Safety	—	3YLJ1
Rigging Safety	6GWG9	6GWK1
Safety Housekeeping and Accident Prevention	3YLC7	3YLJ3
Safety Orientation	3YLC9	3YLJ5
Safety Showers and Eye Washes	3YLD2	—
Slips, Trips & Falls	6GWH2	6GWK4
Welding Safety	6GWH4	6GWK6
Winter Safety	6GWH6	—
Workplace Harassment in the Office	—	6GWL0
Workplace Stress	—	6GWL1
Workplace Violence	6GWJ0	6GWL2
OSHA and DOT Compliance		
Asbestos Awareness	6GWL3	6GWN9
Bloodborne Pathogens in Commercial and Industrial	—	6GWP0
Confined Space Entry	3YKP7	6GXC2
DOT HAZMAT Safety Training	—	31AZ90
Forklift/Powered Industrial Truck Safety	3YKR1	6GWP1
OSHA Lead Standard for Industry	—	6GWR4
Lock-Out/Tag-Out	3YKR4	6GWP4
Personal Protective Equipment	—	6GWP9
Respiratory Safety	—	6GWR0

Description	DVD KITS Item No.	DVD PROGRAMS Item No.
Construction Safety		
Eye Safety-Construction	—	6GWU6
Fall Protection-Construction	6GWR7	6GWU7
Hand and Power Tools Safety	6GWR9	—
Hand & Power Tool-Construction	—	6GWU9
Heat Stress-Construction	6GWT1	6GWX1
Ladder Safety-Construction	6GWT2	—
Ladder Safety	—	6GWX2

Description	Item No.
HAZWOPER - DVD Programs	
HAZWOPER - 40 Hr. Training	6GWZ1
Laboratory Safety - DVD Programs	
Compressed Gas Cylinders in the Lab	6GWZ6
Laboratory Hoods	6GWZ8
Safety Data Sheets in the Laboratory	39F941
Orientation to Lab Safety	6GXA0
Preventing Contamination in the Lab	6GXA3
Safety Showers and Eyewashes in the Lab	6GXA5
OSHA Formaldehyde	6GXA1

Safety Training DVDs

Videos with computer graphics include a link to download printable tests and leader guides for training and compliance.

CLMI SAFETY TRAINING · MARCOM · J. J. Keller & Associates, Inc.® Since 1953 · pig

Description	Brand	Item No.
Back Care	CLMI	8NM33
Confined Space Entry	CLMI	9CT44
DOT HAZMAT General Awareness	Marcom	31AZ89
DOT HAZMAT Safety Training	Marcom	31AZ90
Fall Prevention and Protection	J.J. Keller	490U02
Fire Extinguisher	CLMI	8UY38
Forklift Safety	J.J. Keller	490T98

Description	Brand	Item No.
HazCom	J.J. Keller	21EX07
Lockout/Tagout	CLMI	8ERC5
Personal Protection Equipment	CLMI	20KK70
Respiratory Protection	CLMI	20KK71
Scissor Lifts	Marcom	31AZ81
Spill Response Training	Pig	45ZX31
Workplace Safety	Marcom	6GWH9



No. 21EX07



No. 20KK71

LEARNLAB

Vocational Hands-On Training Panels

These training panels allow students to learn, practice, and develop their job skills through this hands-on process. Each system includes hands-on training panels, student workbooks, printable PDF PowerPoint Presentations, and instructor guidebooks. For the engineering, maintenance, service, and technical fields.

Description	Mfr. Model	Item No.
Electrical Mechatronic Training		
Allen Bradley PLC Training System	722301511695	52JR65
Allen Bradley VFD Training System	722301511688	52JR67
Motor Controls Training System	722301511503	52JR63
Electrical Wiring Training System, PK 6	029741671294	52JR93
Magic Motor Training System	722301511589	52JR70
PLC Training System	722301511510	52JR64
Portable Allen Bradley PLC Training System with Programmable Logic Controller	029741671393	52JR84
Portable Allen Bradley VFD Training System with Variable Frequency Drive	029741671621	52JR86
Portable Motor Controls Training System	029741671416	52JR82
VFD Training System	722301511527	52JR66
Lockout/Tagout Safety Training		
Lockout/Tagout Training System	722301511626	52JR69
Portable Lockout/Tagout Training System	029741671409	52JR87



No. 52JR65



No. 52JR84



No. 52JR87



Visit https://www.grainger.com/content/ehs-digital-solutions or contact your Grainger Representative to learn more about our safety management tools and courses and begin your subscription.

Grainger EH&S Digital Solutions

Get fast, easy solutions to manage, track, and maintain workplace environmental, health and safety activity from your computer. Designed to help reduce injuries, accidents, and associated costs. Tools include:

Learning Management System (LMS) for administering and tracking safety training and documents.

Specialized Online Training courses that meet current safety standards and regulations.

Safety Data Sheet (SDS) Management for site-specific SDS and Globally Harmonized System (GHS) requirements.

Safety Assessment and Compliance Monitoring platform with reports and smart forms for actionable findings and corrective recommendations.

Incident and Inspection Management software that monitors the complete life cycle of all incidents and provides insight into potential incidents.

Occupational Health Tracking of audiometric and pulmonary test data, as well as respirator medical clearance.

Description	Item No.
Learning Management, Training, and Templates	
Learning Management System—1 Administrator, 1 Year	20X166
Learning Management System—1 User, 1 Year	20X167
Unlimited Safety Training—1 User, 1 Year	5ZZZ2
Unlimited Video-Based Training—1 User, 1 Year	20X234
Unlimited DOT Training—1 User, 1 Year	5ZZY3
Safety Template Library—1 User, 1 Year	20X165
Specialized Online Training	
OSHA 10-Hour Construction Safety Training	5ZZZ6
HAZWOPER 8-Hour Refresher Training	5ZZZ5
OSHA 10-Hour General Industry Safety Training	5ZZZ7
OSHA 30-Hour Construction Safety Training	5ZZZ8
NFPA 70E Electrical Training, 5 Modules	5ZZZ9
Red Cross First Aid BBP Training	20X381
Red Cross CPR/AED Training	20X382
Red Cross FA, AED, CPR, BBP Training	20X383
Red Cross CPR/AED Blended Training	20X384
Red Cross FA, AED, CPR, BBP Blended	20X385
IOHSA AED/CPR Training	20X386
IOHSA FA, AED, CPR, BBP Infant Adult	20X387
IOHSA FA, CPR, BBP, AED	20X388
IOHSA FA/BBP Training	20X389
IOHSA AED Training	20X390

Description	Item No.
Specialized Online Training (Cont.)	
IOHSA Bloodborne Pathogen Training	20X391
Red Cross Train the Trainer	20X420
Severe/Life Threatening Bleed Training	20X421
Emergency Oxygen Administration Training	20X422
Active Violence/ Armed Intruder Training	20X423
SDS Management	
Standard SDS Vault—1 Administrator, 1 Site, 1 Year	20X236
Standard SDS Vault—Additional Administrator, 1 Year	20X237
Standard SDS Vault—Add 100 SDS Capacity	20X238
Safety Assessment & Compliance Monitoring	
Audit, General Industry—1 Site, 1 Year	20X303
Audit, College 0-5K Students—1 Site, 1 Year	20X239
Audit, College 5K-20K Students—1 Site, 1 Year	20X240
Audit, College over 20K Students—1 Site, 1 Year	20X241
Audit, C.C. 0-10K Students—1 Site, 1 Year	20X242
Audit, C.C. 10-50K Students—1 Site, 1 Year	20X243
Audit, C.C. over 50K Students—1 Site, 1 Year	20X244
Audit, Edu K-12, 1 District—1 Year	20X245
Audit, Edu K-12, 1 School—1 Year	20X246
Audit, Hospital, 100 Beds—1 Year	20X247
Audit, Hospital, 250 Beds—1 Year	20X248
Audit, Hospital, 350 Beds—1 Year	20X249

Description	Item No.
Safety Assessment & Compliance Monitoring (Cont.)	
Audit, Hospital, 500 Beds—1 Year	20X250
Audit, Hospital, 750 Beds—1 Year	20X251
Audit, Hospital, 1000 Beds—1 Year	20X252
Audit, Hospital, 1250 Beds—1 Year	20X253
Audit, Hospital, 1500 Beds—1 Year	20X254
Audit, Healthcare, 1 MOB—1 Year	20X255
Audit, Healthcare, 1 Practice—1 Year	20X256
Audit, Nursing Homes, 100 Beds—1 Year	20X257
Audit, Nursing Homes, 150 Beds—1 Year	20X258
Audit, Nursing Homes, 200 Beds—1 Year	20X259
Audit, Nursing Homes, 250 Beds—1 Year	20X260
AuditPRO, Life Sciences, 1 Site—1 Year	20X261
Incident and Inspection Management	
SPS Location Administrator—1 User, 1 Year	20X311
SPS Enterprise Administrator—1 User, 1 Year	20X314
SPS System Administrator—1 User, 1 Year	20X315
SPS Individual Access—1 User, 1 Year	20X313
SPS Group Access—1 Group, 1 Year	20X312
Occupational Health Tracking	
Respirator Medical Clearance—1 Evaluation	20X316
Audiogram Entry—1 Exam	20X317
PFT— Exam	20X318

Grainger Online Services are provided by Grainger Safety Services Inc., an affiliate of W.W. Grainger Inc.





BRADY

Visual Lockout Procedure Authoring Service

Maintain standards, compliance, and workplace safety with clear, machine-specific lockout/tagout instructions tailored to your facility. This service provides a complete set of the required written shut-down procedures for equipment in your facility.

How It Works

Brady field engineers gather machine-specific information and install color-coded energy tags on power sources at your site. The Type 1 procedures they produce have clear, step-by-step lockout instructions, equipment photos, and energy points, to help ensure employees can correctly and consistently lock out equipment to avoid unexpected electrical energization or startup.

What You Get

A binder of laminated point-of-use procedures, along with digital copies and a standardized template for ongoing updates to maintain compliance with Lockout Tagout Standard 1910.147.

Note: A separate Visual Lockout Procedure Installation Service is available; contact your Grainger Representative for more information.

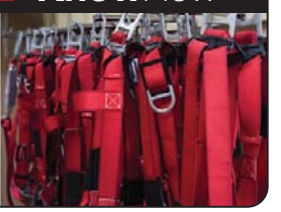
Procedure Qty.	Item No.
40	20X092
80	20X109
120	20X110
300	20X111
500	20X112

OSHA's Top 10 Violations

GRAINGER KnowHow®

Last year, OSHA recorded more than 7,000 violations of standard 1926.501, General Requirements for Fall Protection. Do you know what else made the agency's top ten list?

Get an overview of the most frequently cited standards in 2019 to help make sure your safety program is prepared at **grainger.com/know-how/oshatop10**.



BRADY Condor Master Lock

Circuit Breaker Lockouts

- Padlocks and lockout tags not included

Prevent accidental engagement of electrical circuits during maintenance.

Single-Pole Breaker Lockouts— Used to lock out circuit breakers with a standard toggle switch. Snap-on models work on breakers with holes in the side of the switch. Bar clamp or clamp-on models work on switches with or without holes. Use cleats with clamp-on lockout to assure positive restraint for breakers with long sliding switch throws.

Multipole Breaker Lockouts—For use on common trip circuit breakers that have two or more switches joined by a tie bar. No. 1D671 uses thumbwheel for secure fit on extra-wide range of breaker sizes. No. 3WNZ1 kit includes 1 Lockout Pouch, 1 Multipole Circuit Breaker, 1 No-Hole Circuit Breaker, 277V, 1 No-Hole Circuit Breaker, 480/600V, 1 Single-Pole Circuit Breaker, and 2 Lockout Tags.

Oversized Breaker Lockouts—Fit breaker switches up to 2¼" wide and ⅞" thick.

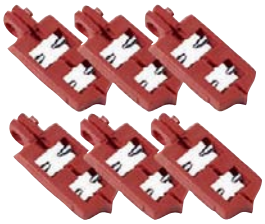
3-Phase Breaker Lockout—Works on single-, double-, and triple-pole circuit breakers. Fits over switch; no holes required. Tighten with screwdriver (not included) and secure with padlock.

DIN-Style Miniature Breaker Lockouts—Breakers are designed to mount to DIN rails. 3 styles; pin-in, pin-out, and tie bar. All pin-in and pin-out styles are used with single or multipole breakers. Pin-out style comes in standard and wide size. No. 2VU37 is used with multipole breakers that have a tie bar.

Circuit Breaker Lockouts—Properly lock all types of circuit breaker locations. Use No. 2XU96 for breakers that have a hole in the switch tongue. No. 2XU97 is for breakers that do not have a hole in the switch tongue. No. 2CJL3 Flexible Cable Shackle includes steel padlock with 5" steel cable. Numerous key changes minimize key duplication.

Blocking Bar Lockout—Installs to electrical panel in minutes. Use red arm to lock in Off position, or green bar to lock in On position. Includes two 4"L mounting rails, one 7⅜"L red blocking bar, one 7⅜"L green blocking bar, and 3 alcohol wipes.

Lockout Type	Circuit Breaker Voltage	Max. Shackle Dia.	Brand	Item No.	Pkg. Qty.
Single-Pole Breaker Lockouts					
Snap-On for Breakers 9/16"W x 3/8"L	120	9/32"	Brady	**3TM51**	1
Snap-On for Breakers with Hole	120	9/32"	Brady	**3T986**	6
Clamp-On Lockout with Screw	120/240	9/32"	Condor	**48KV26**	1
Bar Clamp Lockout	120/240	9/32"	Condor	**48KV12**	1
Clamp-On for Toggles up to ½"W	120/277	9/32"	Brady	**5TB12**	1
Clamp-On for Single-Pole	120/277	9/32"	Brady	**3ZM49**	1
Clamp-On for Breakers 9/16"W x 3/8"L	120/277	9/32"	Brady	**6T783**	1
Clamp-On for Tall Breaker Toggles	120/277	9/32"	Master Lock	**1TDB1**	1
Clamp-On for Standard Tie Bars	120/277	9/32"	Master Lock	**1TDB2**	1
Clamp-On Set, Includes 1 each of Nos. 1TDB1 and 1TDB2	120/277	9/32"	Master Lock	**2CJK2**	1
Clamp-On for Single and Multi-Pole Breakers	120/277	9/32"	Brady	**2AD54**	6
Clamp-On Breaker Lockout with Cleat	120/277	9/32"	Brady	**15Y513**	1
Clamp-On for Breakers 9/16"W x 3/8"L	480/600	9/32"	Brady	**6T784**	1
Clamp-On for Single and Multi-Pole Breakers	480/600	9/32"	Brady	**1AZ01**	6
Clamp-On Breaker Lockout with Cleat	480/600	9/32"	Brady	**15Y512**	1
Multipole Breaker Lockouts					
Bar Clamp Lockout	120/240	9/32"	Condor	**48KV13**	2
Snap-On	120/277	9/32"	Brady	**3ZM51**	1
Clamp-On	120/277	9/32"	Brady	**6U839**	1
Clamp-On	120/277	9/32"	Brady	**1D671**	6
Tie-Bar	120/277	9/32"	Brady	**15Y515**	1
Circuit Breaker Lockout Kit	277/480/600	—	Brady	**3WNZ1**	1
Oversized Breaker Lockouts					
Clamp-On	480/600	9/32"	Brady	**3TM33**	1
Clamp-On	480/600	9/32"	Brady	**3TM25**	6
3-Phase Breaker Lockouts					
Clamp-On	120/277	9/32"	Brady	**5TB13**	1
DIN-Style Miniature Breaker Lockouts					
Pin-In, Standard	120/277	9/32"	Brady	**2VU33**	1
Pin-Out, Standard	120/277	9/32"	Brady	**2VU32**	1
Pin-Out, Standard	120/277	9/32"	Brady	**3WNX8**	6
Pin-Out, Standard	120/277	9/32"	Master Lock	**4EMY6**	1
Pin-Out, Wide	120/277	9/32"	Brady	**2VU35**	1
Pin-Out, Wide	120/277	9/32"	Master Lock	**4EMY7**	1
Tie Bar	120/277	9/32"	Brady	**2VU37**	1
Circuit Breaker Lockouts					
Snap-On Lockout with 2-ft. Nylon Cable	120	9/32"	Brady	**2XU96**	1
Clamp-On Lockout with 2-ft. Nylon Cable	120	9/32"	Brady	**2XU97**	1
Rail Lockout	120	9/32"	Condor	**48KV15**	1
Flexible Cable Shackle with Padlock	120/277	9/32"	Master Lock	**2CJL3**	1
Slide-On Lockout with VHB Industrial Bonding Tape	277/480/600	9/32"	Condor	**48KV14**	1
Blocking Bar Lockout					
Breaker Panel	480/600	9/32"	Brady	**3LY22**	1


No. 3T986


No. 48KV12


No. 1TDB2


No. 3ZM51


No. 1D671



No. 3WNZ1


No. 3TM25


No. 5TB13


No. 2VU32


No. 2VU37


No. 2XU97


No. 2CJL3
(Breaker Lockout Sold Separately)



No. 3LY22


No. 48KV17


No. 5T831


No. 2AM71


No. 6AP32


No. 1TDB5


No. 48KV18


No. 5U715


No. 2AF98


No. 3PDD9


No. 3PDE1

Electrical Lockout Devices

Universal Plug Lockouts—Accommodate various cord diameters and high- and low-voltage plugs.

Small/Large Plug Lockouts—Devices accept lock or nylon tie to prevent a plug from being inserted in a wall outlet. No. 3VAF2 can be used to lockout pneumatic male fittings attached to compressed air hoses.

Plug Prong Lockouts—Use with existing lockout padlocks or lockout hasps with built-in lock.

Cinch Sack Plug Lockouts—Designed for oversized, awkward, and hard-to-reach connections. Accommodate up to 6 padlocks.

Wall Switch Lockouts—Hinges open for unobstructed operation of switch.

Emergency Stop Safety Covers—Install over push/pull or twist/release emergency stops.

Push-Button Safety Covers—Completely cover button to prevent access.

Fits	Padlock Shackle Max. Dia.	Color	Brand	Item No.
Universal Plug Lockouts				
Most 110 VAC Plugs with Cord Up to ½" dia.	9/32"	Red	Condor	48KV17
Most 110 VAC Plugs with Cord Up to 3½" dia.	3/8"	Yellow	Condor	437R61
Up to 1¾" Dia. Cord and 2½"L Plugs, 110/220V	9/16"	Yellow	Brady	5TB29
Up to 3" Dia. Cord and 5½"L Plugs	1/4"	Yellow	Brady	5T831
20, 30 and 60A Metallic and Non-Metallic Pin & Sleeve, Hubbellock and Twist-lock Plugs	9/16"	Yellow	Brady	6T880
Small/Large Plug Lockouts				
Up to ½" Dia. Cord and 3"L Plugs, 110V	9/16"	Red	Brady	2AM71
Up to ½" Dia. Cord and 3"L Plugs, 110V	1/2"	Red	Brady	41F294
Up to ½" Dia. Cord and 3¼"L Plugs	5/16"	Red	Brady	3VAF3
Up to ¾" Dia. Cord and 3¼"L Plugs, 110/220V	9/16"	Red	Master Lock	3VAE3
Up to ¾" Dia. Cord and 6"L Plugs, 220/500V	9/16"	Red	Master Lock	3VAE4
Up to 1" Dia. Cord and 2½"L Plugs, 220/500V	9/16"	Red	Brady	2AF60
Up to 2¾" dia. X 4¾"L with 1" Cord		Yellow	Brady	6T858
Up to 3½" Dia. Cord and 5"L Plugs	5/16"	Red	Brady	3VAF2
Plug Prong Lockouts				
110/120 Volt Plugs	5/16"	Red	Master Lock	2CJN7
2-or 3-Pronged Plugs	9/16"	Red	Brady	6AP32
Cinch Sack Plug Lockouts				
Oversized Connections, 26"H x 10" Dia.	1/4"	Red	Master Lock	3WPF5
Oversized Connections, 17"H x 6¼" Dia.	1/4"	Red	Master Lock	1TDB5
Wall Switch Lockouts				
Rocker/Toggle and Flat Paddle Switches	9/32"	Red	Condor	48KV18
Toggle/Paddle Switch	5/16"	Red	Master Lock	2CJK9
Toggle Switch	9/32"	Clear	Brady	5U715
Toggle Switch	9/32"	Red	Brady	15Y516
Toggle Switch	9/32"	Red	Brady	2AF98 *
Emergency Stop Safety Covers				
IEC 20.5mm	3/16"	Silver	Brady	3PDD9
NEMA 30.5mm	3/16"	Silver	Brady	3PDE4
Push-Button Safety Covers				
IEC 20.5mm, Steel/Acrylic	3/16"	Silver/Clear	Brady	3PDE1
NEMA 30.5mm, Acrylic	3/16"	Clear	Brady	3PDE5
30.5mm and 22.5mm, Polycarbonate	5/16"	Clear	Master Lock	22A866

** Pkg. of 6.*


No. 5TB14


No. 5TA70



No. 5TA90


No. 6ADF4


No. 24UY74


No. 3ZG17


No. 2CJN1


No. 48KV19

Cable and Pneumatic Lockouts

Tab- and Grip-Cinching Cable Lockouts—Cable cinches tight to provide better security than chains. No. 3MT22 allows you to squeeze device to tighten cable, then insert your padlock to secure the handle. Nos. 5TA70 and 5TA71 have a built-in loop to keep cable coiled for easy transport and storage.

Retractable Cable Lockouts—Self-winding mechanism automatically cinches the cable with the push of a button.

Adjustable Cable Lockouts—Flexible for use on side-by-side gate valve lockouts or multiple circuit breaker panels at the same time.

Double Looped Cable—Flexible cable lockout is ideal for locking out large valves. Lightweight and an excellent visual deterrent that the isolation point is locked out.

Pneumatic Lockouts—Isolate pneumatic devices without installing in-line lockout valves. No. 2CJN1 works with lockout hasps for multiple worker lockout.

Description	Cable L	Locking Holes	Padlock Shackle Max. Dia.	Brand	Item No.
Tab-Cinching Cable Lockouts					
3/16" Dia. Vinyl Coated Steel	6 ft.	6	9/32"	Brady	5TB14
3/16" Dia. Vinyl Coated Steel	10 ft.	6	9/32"	Brady	5TB15
Grip-Cinching Cable Lockouts					
1/8" Dia. Galvanized Steel	6 ft.	1	9/32"	Brady	3TM22
1/8" Dia. Nylon	8 ft.	4	9/32"	Brady	5TA70
3/16" Dia. Vinyl Coated Steel	8 ft.	4	9/32"	Brady	5TA71
Cinch Only For Nos. 5TA70, 5TA71	No Cable	4	9/32"	Brady	5TA72
Retractable Cable Lockouts					
1/16" Dia. Vinyl Coated Steel	8 ft.	6	9/32"	Brady	5TA69
1/16" Dia. Nylon	8 ft.	6	9/32"	Brady	5TA90
Adjustable Cable Lockouts					
1/8" Dia., Polycarbonate	3 ft.	4	9/32"	Condor	48KV10
1/8" Dia., Polycarbonate	6 ft.	4	9/32"	Condor	48KV09
1/8" Dia., Polycarbonate	15 ft.	4	9/32"	Condor	48KV11
5/32" Dia., Plastic/Steel	3 ft.	4	5/16"	Master Lock	39L528
5/32" Dia., Plastic/Steel	6 ft.	4	5/16"	Master Lock	6ADF4
5/32" Dia., Plastic/Steel	15 ft.	4	9/32"	Master Lock	6ADF5
Double Looped Cable					
3/16" dia. x 2 ft., Steel with Plastic Coating	2 ft.	0	—	Brady	24UY74
Pneumatic Lockouts					
1/4", 3/8", and 1/2" Male Fittings	—	6	9/32"	Brady	3ZG17
1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8",and 13/16" Male Fittings	—	2	9/32"	Master Lock	2CJN1
(7) Openings Ranging From 9/32" to 1/2" dia.	—	1	9/32"	Condor	48KV19
(7) Openings Ranging From 9/32" to 1/2" dia., Pkg. 6	—	1	9/32"	Condor	48KV20

Valve Lockouts

Gate Valve Lockouts—Fit most round-handle gate valves. Nonadherent plastic construction resists chemicals and hot/cold temperatures. Brady models' knockout feature accommodates OS&Y or "rising stem" gate valves.

Adjustable Ball Valve Lockouts—Nos. 3TAP3, 2VU39, 3TAP1, and 3TAP2 can also be used to lock valves open on pipes from ½" to 1¼" dia. No. 4EMY9 lockout is suitable for tight locations near pipes.

Universal Ball Valve Lockout—Pouch-style with strapping and locking mechanism. Design removes handle and conceals valve stem, eliminating reactivation.

Standard Ball Valve Lockouts—Designed for locking out quarter-turn ball valves with flat "dog-leg" handles. 1-pc. devices fit all major brand ball valves.

Universal Valve Lockouts—Single device locks out most ball, butterfly, and gate valves. Industrial-grade steel and nylon construction is chemical- and corrosion-resistant.

Plug Valve Lockouts—Compact and easy to use, effective for difficult-to-secure plug valves. Fit most manually-actuated plug valves. Durable and tamper resistant.

Butterfly Valve Lockouts—Solvent- and chemical-resistant. Resist cracking and abrasion.

Gas Valve Lockouts—Protect against accidental valve opening. No. 2CJN2 fits all pressurized gas valves up to 3" dia. and works with valve guard in place.



No. 48KV21



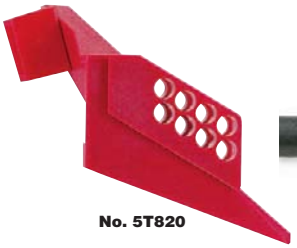
No. 2CJJ9



No. 4EMY9



No. 1TDA9



No. 5T820



No. 5TA88



No. 4TWF7



No. 41F336



No. 2CJN2

Fits Handle Size	Max. Shackle Dia.	Max. No. of Padlocks	Color	Temp. Range	Brand	Item No.
Gate Valve Lockouts						
1" to 2½"	9/32"	1	Red	0° to 250°F	Condor	48KV21
1" to 2½"	3/8"	1	Red	-25° to 200°F	Brady	3BC82
1" to 3"	5/16"	2	Red	-50° to 350°F	Master Lock	2CJJ5
1" to 6½"	9/32"	4	Red	-13° to 194°F	Brady	4VJ29
1" to 2½"	3/8"	2	Red	0° to 175°F	Brady	3TAP4
1" to 2½"	3/8"	1	Yellow	-20° to 300°F	Brady	15Y672
2" to 5"	5/16"	3	Red	-50° to 350°F	Master Lock	2CJJ6
2½" to 5"	9/32"	3	Red	0° to 250°F	Condor	48KV22
2½" to 5"	3/8"	1	Red	-25° to 200°F	Brady	2AV57
2½" to 5"	3/8"	2	Red	0° to 175°F	Brady	3TAP5
2½" to 5"	3/8"	1	Blue	-20° to 300°F	Brady	15Y668
2½" to 5"	3/8"	1	Yellow	-20° to 300°F	Brady	15Y673
4" to 6½"	5/16"	4	Red	-50° to 350°F	Master Lock	2CJJ7
5" to 6½"	9/32"	3	Red	0° to 250°F	Condor	48KV23
5" to 6½"	3/8"	1	Red	-25° to 200°F	Brady	5AM43
5" to 6½"	3/8"	1	Red	0° to 175°F	Brady	3TAP6
6" to 10"	5/16"	4	Red	-50° to 350°F	Master Lock	2CJJ8
6½" to 10"	3/8"	1	Red	-25° to 200°F	Brady	3AT46
8" to 13"	5/16"	4	Red	-50° to 350°F	Master Lock	2CJJ9
10" to 13"	3/8"	1	Red	-25° to 200°F	Brady	6AG81
Adjustable Ball Valve Lockouts						
—	9/32"	1	Red	-20° to 180°F	Condor	48KV24
—	9/32"	1	Red	-20° to 180°F	Condor	48KV25
¼" to 4"	9/32"	1	Red/Black	-70° to 350°F	Master Lock	4EMY9
½" to 2½"	3/8"	4	Yellow	0° to 175°F	Brady	3TAP3
½" to 2"	9/32"	4	Red	-40° to 200°F	Master Lock	20JE32
1" to 2½"	3/8"	4	Red	0° to 175°F	Brady	2VU39
1" to 2½"	3/8"	4	Blue	0° to 175°F	Brady	3TAP1
1" to 2½"	3/8"	4	Green	0° to 175°F	Brady	3TAP2
2" to 8"	9/16"	6	Blue	0° to 175°F	Brady	3NRL7
2" to 8"	9/16"	6	Yellow	0° to 175°F	Brady	3NRL9
2" to 8"	9/16"	6	Red	0° to 175°F	Brady	3PDD1

Fits Handle Size	Max. Shackle Dia.	Max. No. of Padlocks	Color	Temp. Range	Brand	Item No.
Universal Ball Valve Lockout						
3/8" to 4"	¼"	5	Red	-40° to 250°F	Master Lock	1TDA9
Standard Ball Valve Lockouts						
—	9/32"	8	Red	-40° to 248°F	Brady	5T820
—	9/32"	1	Red	—	Master Lock	20JE33
—	9/32"	1	Red	—	Master Lock	20JE34
—	5/16"	0	Red	-40° to 194°F	Brady	44ZL09
—	5/16"	0	Red	-40° to 194°F	Brady	44ZL13
¼" to 1"	3/8"	6	Red	-30°F to 350°F	Brady	3AD54
1¼" to 3"	9/32"	8	Red	-30°F to 350°F	Brady	5T821
1¼" to 3"	3/8"	7	Red	-30°F to 350°F	Brady	5AT47
6½" to 9½"	3/8"	2	Red	-40° to 302°F	Brady	8CPV0
10" to 13"	3/8"	2	Red	-40° to 302°F	Brady	8CRJ7
Universal Valve Lockouts with 8-ft. Metal Cable						
1"	9/32"	1	Red	0° to 250°F	Brady	5TA89
1¾"	9/32"	1	Red	0° to 250°F	Brady	5TA86
Universal Valve Lockouts with 8-ft. Nylon Cable						
1"	9/32"	1	Red	0° to 250°F	Brady	5TA87
1¾"	9/32"	1	Red	0° to 250°F	Brady	5TA88
Plug Valve Lockouts						
⅞"	⅞"	1	Red	-25° to 200°F	Brady	4TWF7
15/16" to 1⅜"	1⅜"	1	Red	-25° to 200°F	Brady	4TWF8
1¾" to 2⅛"	⅜"	1	Red	-25° to 200°F	Brady	4TWF9
2 3/16" to 2½"	⅜"	1	Red	-25° to 200°F	Brady	4TWG1
Butterfly Valve Lockouts						
⅛" to 2½" Thickness	19/64"	4	Red	-20° to 140°F	Brady	41F336
2" to 4" Thickness	19/64"	4	Red	-20° to 140°F	Brady	41F337
Universal	—	0	Red	-40° to 200°F	Master Lock	20JE16
Universal	5/16"	4	Red	-40° to 200°F	Master Lock	20JE17
Gas Valve Lockouts						
1¼"	3/8"	1	Red	-50° to 350°F	Brady	3NRN5
3"	9/32"	2	Red	-50° to 350°F	Master Lock	2CJN2



No. 48RU07



No. 48RU10



No. 48RU13



No. 48RU16



No. 48RU19

Lockout Tags

- 5¾"H x 3¼"W

Polyethylene tags feature nylon ties.

Legend	PKG. 10 Item No.	PKG. 25 Item No.	PKG. 100 Item No.
Do Not Operate This Lock/Tag May Only Be Removed By	48RU07	48RU08	48RU09
Do Not Operate	48RU10	48RU11	48RU12
Do Not Operate Do Not Remove This Lock, It is Here to Protect My Life	48RU13	48RU14	48RU15
Locked Out Do Not Operate This Lock/Tag May Only Be Removed By	48RU16	48RU17	48RU18
Do Not Energize This Lock/Tag May Only Be Removed By	48RU19	48RU20	48RU21



Nos. 1D711 and 6T736



No. 1TAC6



Nos. 5TB11 and 2VU43



No. 5TB22



No. 4HY68



No. 3ZM53



No. 15Y544



No. 4HY64



No. 4HY67



No. 3LY49



No. 2CJK1

Electrical/Valve and Chain Lockout Kits

No. of Padlocks	Lock Type	No. of Components	Includes	Brand	Item No.
Electrical/Valve Lockout Kits					
2	Nylon	14	(1) ¾" Blue Nylon Padlock, (1) 2" Blue Nylon Padlock, (1) Red Aluminum Labeled Hasp, (1) 1 to 2½" Adjustable Gate Valve Lockout, (1) Small Plug Lockout, (1) Small Ball Valve Lockout, (1) Universal Multiple Breaker Lockout, (1) 480/600V No-Hole Circuit Breaker Lockout, (1) Red Wall Switch Lockout, (5) Tags	Brady	1D711
0	—	0	(1) Toolbox	Brady	6T736
3	Nylon	21	(3) Red Nylon Keyed-Alike Padlocks, (3) 1" Dia. Steel Jaw Hasps, (1) Cable Lockout, (1) 1 to 6½" Adjustable Gate Valve Lockout, (1) Small Ball Valve Lockout, (1) 3" Plug Lockout, (2) 120/277V Clamp On Breaker Lockout with Cleats, (1) 480/600V Clamp On Breaker Lockout with Cleat, (2) Universal Multiple Breaker Lockouts, (3) Tags, (3) Ties	Brady	1TAC6
2	Steel	17	(2) Silver Steel Padlocks, (1) Mini Cable Lockout, (1) Large Valve Lockout, (1) Snap-On Breaker Lockout, (1) Clamp-On 120/277V Breaker Lockout with Cleat, (1) Clamp-On 480/600V Breaker Lockout with Cleat, (1) Multiple Breaker Lockout, (1) Oversized Breaker Lockout, (1) Plug Lockout 3-in-1, (1) Wall Switch Lockout, (1) Adjustable 1-6-1/2" Gate Valve Lockout, (1) Adjustable 1-2-1/2" Gate Valve Lockout, (1) Adjustable ¼-1" Ball Valve Lockout, Belt Pouch, (2) Tags	Brady	5TB11
0	—	0	(1) Duffel Bag	Brady	2VU43
3	Steel	51	(3) Blue Bumper Steel Padlocks, (1) Ball Valve Lockout, (1) Small Plug Lockout, (1) 1" Steel Jaw Dia. Hasp, (1) 1½" Steel Jaw Dia. Hasp, (1) 1 to 2½" Adjustable Valve Lockout, (1) 2½-5" Adjustable Ball Valve Lockout, (1) Cable Lockout, (1) Wall Switch Lockout, (1) AC Voltage Detector Pen, (1) Large Electrical Plug Lockout, (2) No-Hole Pole Breaker Lockouts, (2) Multiple Breaker Lockouts, (1) Training Booklet, (14) Padlock Labels, (10) Tags, (10) Ties	Brady	5TB22
6	Thermoplastic	53	(6) Red Thermoplastic Padlocks, (2) Circuit Breaker Padlocks, (1) 1" Steel Jaw Dia. Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Small and (1) Large Plug Cover, (3) Gate Valve Covers, (2) Ball Valve Lockouts, (6) Standard Toggle Universal Circuit Breaker Lockout, (3) Tall and Wide Toggle Universal Circuit Breaker Lockout, (2) Wall Switch Covers, (24) Tags	Master Lock	4HY68
3	Steel	87	(1) 7½"H x 14"W x 8"D Gray Polyethylene Carrying Case,(3) Blue Steel Padlocks, (3) 1½" Steel Jaw Dia. Hasps, (2) Single Pole Electrical Breaker Lockouts, (3) Multiple Electrical Breaker Lockouts, (1) Large Electrical Plug Lockout, (1) 1 to 2½" Gate Valve Lockout, (1) 2½ to 5" Gate Valve Lockout, (1) Wall Switch Lockout, (1) Lockout Cable Device, (1) AC Voltage Detector Pen, (5) 3 x 5" Stainless Steel "Lockout Here" Signs, (5) 3 x 5" Stainless Steel "Lockout Before Servicing" Signs, (5) 5 x 7" Stainless Steel "Caution This Machine Must Be Locked Out Before Doing Maintenance All Sources of Energy Must Be Locked In the Off or Safe Position De-energized or Block All Stored Energy" Signs, (1) Lockout Safety Training Book, (14) Padlock Identifiers, (20) Tags, (2) Nylon Cable Ties	Brady	3ZM53
2	—	22	(1) Mini Cable Lockout (50940), (1) Large Universal Valve Lockout w/ Blocking Arm (50899 and 65403), (1) 120V Snap-On Breaker Lockout (65387), (1) 120/277V Clamp-On Breaker Lockout (65396), (1) 480/600V Clamp-On Breaker Lockout (65397), (1) Universal Multi-Pole Breaker Lockout (66321), (1) Oversized Breaker Lockout (65329), (1) Cleat for 120/277V Clamp-On Lockout (65404), (1) Cleat for 480/600V Clamp-On Lockout (65406), (1) 3-In-1 Plug Lockout (PLO23), (1) Wall Switch Lockout (65392), (1) 1"-6 ½" Adjustable Gate Valve Lockout (64057), (1) 1"-2 ½" Gate Valve Lockout (65560), (1) ¼"-1" Ball Valve Lockout (65666), (1) Lockout Belt Pouch (51172), (1) Lockout Duffel Bag (99162), (2) Brady Safety Padlocks (99552), (1) Plug Valve Lockout for stem dia. up to ⅞" (113231), (1) Plug Valve Lockout for stem dia. ⅞2" - 13/8" (113232), (2) Lockout Tags (65520)	Brady	15Y544
Electrical Lockout Kits					
1	Thermoplastic	19	(1) Red Thermoplastic Padlock 4FG03, (1) Breaker Switch Padlock 2CJL3, (1) 1" Steel Jaw Dia. Hasp 1U177, (2) Standard Toggle Universal Circuit Breaker Lockout 1TDB2, (1) Tall and Wide Toggle Universal Circuit Breaker Lockout 1TDB1, (1) Red Zipper Pouch with 3 Separate Compartments, (12) Tags, and (12) Ties	Master Lock	4HY64
6	Thermoplastic	45	(6) Red Thermoplastic Padlocks, (2) Circuit Breaker Padlocks, (1) Steel 1 Jaw Dia. Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Small Electrical Plug Cover (1) Large Electrical Plug Cover, (4) Standard Toggle Universal Circuit Breaker Lockout, (2) Tall and Wide Toggle Universal Circuit Breaker Lockout, (2) Wall Switch Covers, (24) Tags	Master Lock	4HY67
Chain Lockout Kits					
3	Steel	15	(1) 48" Chain, (3) Red Padlocks, (3) 1½" Steel Lockout Hasps, (3) Lockout Tags With Ties, (1) Blue Carrying Case	Brady	3LY49
3	Aluminum	17	(2) 4' x 3/16"-dia. Chains for Securing Valves or Other Machinery, (3) 1½" Keyed-Alike Locks, (3) Hasps, (3) "Do Not Start" Vinyl Tags, (3) Cable Ties, (1) 4' x 3/16"-dia. Chain, (1) Copy of 29 CFR 1910.147, (1) Blue Case	Brady	3WPJ2
3	Steel	17	(2) 48" Chain, (3) Red Padlocks, (3) 1½" Steel Lockout Hasps, (3) Lockout Tags With Ties, (1) Red Carrying Case	Brady	3WPJ3
Gate Valve Lockout Kits					
—	—	—	Set: 480 - 484 (2CJJ5 - 2CJJ9)	Master Lock	2CJK1



No. 5TB23



No. 15Y562



No. 15Y578



No. 4HY66



No. 5U714



No. 1TAC4



No. 9KYX3



No. 3WPA8

BRADY Master Lock

Lockout Kits

More lockout kits are available online, see Grainger.com®.

No. of Padlocks	Case Material	No. of Components	Includes	Brand	Item No.
Electrical Lockout Kits					
1	Plastic	6	(1) 1½" Steel Hasp, (1) Padlock, (1) Single Pole Breaker Lockout, (1) Lockout Wallet Card, (1) Carrying Case, (1) Tag, (1) Tie	Brady	**5TB23**
1	—	7	(1) Universal Multi-Pole Breaker Lockout (#66321), (1) 120/277V Clamp-On Breaker Lockout (#65396), (1) 480/600V Clamp-On Breaker Lockout (#65397), (1) 110V Electrical Plug Lockout, (1) 1" Steel Lockout Hasp, (1) Lockout Pouch (#87943)	Brady	**3WNZ6**
1	Canvas	6	(1) Lockout Pouch, (50) "Danger" Tags, (1) Stopower Plug Hugger, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 1" Lockout Hasp	Brady	**3WNZ4**
1	Plastic	8	(1) Universal Multiple Circuit Breaker Lockout, (1) 277V No-Hole Breaker Lockout, (1) 480-600V No Hole Breaker Lockout, (2) 25-Pack "Danger" Tags, (1) 220/550V Plug Lockout with "Danger" Labels, (1) 1½" Red Safety Padlock, (1) Tool Box	Brady	**3WNZ2**
1	Nylon	8	(1) 2" Blue Steel Padlock, (1) Red Aluminum Labeled Hasp, (1) Universal Multiple Breaker Lockout, (1) 277V No-Hole Circuit Breaker Lockout, (1) Red Plug Lockout, (1) Nylon Pouch with Metal Belt Loops, (2) Tags	Brady	**6T737**
0	Nylon	8	(1) 120/277V Clamp-On Breaker Lockout w/cleat (65396), (1) 480/600V Clamp-On Breaker Lockout w/ cleat (65397), (1) Universal Multiple Breaker Lockout (66321), (2) 1" Group Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Lockout Belt Pouch (51172)	Brady	**15Y562**
0	Polypropylene	10	(1) ½"- 2 ½" Small Ball Valve Lockout (BS07A), (1) 1"- 2 ½" Gate Valve Lockout (65560), (1) 120/277V Clamp-On Breaker Lockout w/ Cleat (65396), (1) Universal Multiple Breaker Lockout (66321), (1) Small 110V Plug Lockout (65674), (2) 1" Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Small Lockout Toolbox (105905)	Brady	**15Y578**
2	Nylon	11	(1) 120/277V Clamp-On Breaker Lockout w/cleat (65396), (1) 480/600V Clamp-On Breaker Lockout w/cleat (65397), (1) Universal Multiple Breaker Lockout (66321), (2) 1" Group Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Lockout Belt Pouch (51172), (1) Belt Pouch (51172), (2) Keyed-Alike Steel Padlocks	Brady	**15Y563**
2	Nylon	12	(1) Red Nylon Belt Pouch, (2) Red Nylon Keyed-Alike Padlocks, (2) 1" Steel Jaw Dia. Hasps, (1) Universal Multiple Lockout, (1) 120/277V Clamp-On Breaker Lockout with Cleat, (1) 480/600V Clamp-On Breaker Lockout with Cleat, (2) Tags, (2) Ties	Brady	**1TAC5**
2	Nylon	12	(1) 120V Snap-On Breaker Lockout, (1) 120/277V Clamp-On Breaker Lockout, (1) 480/600V Clamp-On Breaker Lockout, (1) Universal Multi-Pole Breaker Lockout, (1) Oversized Breaker Lockout, (1) Cleat for 120/277V Clamp-On Lockout, (1) Cleat for 480/600V Clamp-On Lockout, (1) Lockout Belt Pouch, (2) Brady Safety Padlocks, (2) Lockout Tags	Brady	**15Y537**
2	Polypropylene	12	(1) ½"- 2 ½" Small Ball Valve Lockout (BS07A), (1) 1"- 2 ½" Gate Valve Lockout (65560), (1) 120/277V Clamp-On Breaker Lockout w/ Cleat (65396), (1) Universal Multiple Breaker Lockout (66321), (1) Small 110V Plug Lockout (65674), (2) 1" Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Small Lockout Toolbox (105905), (2) Keyed-Alike Safety Padlocks	Brady	**15Y579**
3	Nylon	16	(3) Red Thermoplastic Keyed-Alike Padlocks, (1) Lockout Hasp, (12) Tags	Master Lock	**4HY65**
1	Nylon	19	(1) Red Thermoplastic Padlock 4FG03, (1) Breaker Switch Padlock 2CJL3, (1) 1" Steel Jaw Dia. Hasp 1U177, (2) Standard Toggle Universal Circuit Breaker Lockout 1TDB2, (1) Tall and Wide Toggle Universal Circuit Breaker Lockout 1TDB1, (1) Red Zipper Pouch with 3 Separate Compartments, (12) Tags, and (12) Ties	Master Lock	**4HY64**
0	Polyethylene	19	(1) Mini Cable Lockout (50940), (2) 120V Snap-On Breaker Lockouts (65387), (2)120/277V Clamp-On Breaker Lockouts (65396), (2) 480/600V Clamp-On Breaker Lockouts (65397), (2) Universal Multi-Pole Breaker Lockouts (66321), (1) Oversized Breaker Lockout (65329), (2) Cleats for 120/277V Clamp-On Lockout (65404), (2) Cleats for 480/600V Clamp-On Lockout (65406), (1) 3-In-1 Plug Lockout (PLO23), (1) Wall Switch Lockout (65392), (1) Small Fuse Lockout (65690), (1) Large Fuse Lockout (65691), (1)Extra-Large Lockout Toolbox (LKX-TKLBOX)	Brady	**15Y552**
2	Polyethylene	21	(1) Red Nylon Pouch, (2) Red Nylon Padlocks (with 1 Key Each), (1) Mini Cable Lockout, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts with Cleats, (2) 480/600V Clamp-On Breaker Lockouts with Cleats, (2) Universal Multiple Breaker Lockouts, (1) Oversized Breaker Lockout, (1) 3-in-1 Plug Lockout, (1) Wall Switch Lockout, (1) Small Fuse Lockout, (1) Large Fuse Lockout, (2) Tags, (2) Ties	Brady	**5TA93**
3	Plastic	24	(1) Red/Black Plastic Lockable Carrying Case (Accepts up to 1¼" Shackle), (1) 2CJL3 Circuit Breaker Padlock, (1) 1U177 1" Dia. Steel Jaw Hasp, (1) 2CJJ2 Red Labeled Snap-On Hasp, (3) 1TDB2 Standard Toggle Universal Circuit Breaker Lockout, (2) 1TDB1 Tall and Wide Toggle Universal Circuit Breaker Lockout, (1) 2CJK9 Wall Switch Cover, (12) Tags, (3) Red Thermoplastic Keyed-Alike Padlocks	Master Lock	**4HY66**
4	Canvas	43	(1) Yellow Canvas Bag, (2) ¾" Blue Steel Keyed Different Padlocks, (2) 2" Blue Steel Keyed Differently Padlocks, (3) Red Aluminum Labeled Hasps, (1) Small Plug Lockout, (1) Large Plug Lockout, (6) Single Pole Breaker Switch Lockouts, (6) 277V No-Hole Circuit Breaker Lockouts, (6) Universal Multiple Breaker Lockouts, (6) Wall Switch Lockouts, (1) Large Plug Lockout, (1) Small Plug Lockout, (10) Tags	Brady	**6T864**
6	Plastic	45	(6) Red Thermoplastic Padlocks, (2) Circuit Breaker Padlocks, (1) Steel 1 Jaw Dia. Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Small Electrical Plug Cover (1) Large Electrical Plug Cover, (4) Standard Toggle Universal Circuit Breaker Lockout, (2) Tall and Wide Toggle Universal Circuit Breaker Lockout, (2) Wall Switch Covers, (24) Tags	Master Lock	**4HY67**
3	Polyethylene	47	(1) 7"H x 12"W x 5"D Gray Polyethylene Case, (3) Blue ¾" Padlocks, (3) 1½" 12-Ga. Steel Hasps, (3) Single Pole Electrical Breaker Lockouts, (2) Multiple Electrical Breaker Lockouts, (1) Large Plug Lockout, (1) Lockout Training Booklet, (28) Padlock Stickers, (2) Padlocks, (10) Vinyl Tags, (10) Nylon Cable Ties	Brady	**5U714**
1	—	7	(1) Red Safety Padlock, (1) Single Pole Lockout, (1) 277V No Hole Lockout, (1) 480/600V No Hole Lockout, (2) Tags, (1) Multi-Pole Lockout, (1) Pouch	Brady	**3WNY9**
0	Canvas	0	(1) Yellow Canvas Bag	Brady	**6T867**
Standard Lockout Kits					
1	Nylon	6	(1) Nylon Belt Pouch, (1) Hasp, (1) Padlock, (2) Lockout Tags with Ties, (1) Information Card, (1) Lockout Key Chain	Brady	**9UP94**
2	Nylon	8	(2) Red Nylon Keyed-Alike Padlocks, (2) 1" Steel Jaw Dia. Hasps, (2) Tags, (2) Ties	Brady	**1TAC4**
Valve Lockout Kits					
0	—	6	(4) Round Valve Lockouts Fitting Handles 1" to 10", (2) Ball Valve Lockouts	Brady	**9KYX3**
3	Plastic	23	(3) Red Thermoplastic Keyed-Alike Padlocks, (1) Lockout Hasp, (1) Red Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Gate Valve Cover for 1 to 3" Handles, (1) Gate Valve Cover for 2 to 5" Handles, (1) Gate Valve Cover for 4 to 6½" Handles, (1) 1" Steel Jaw Ball Valve Lockout, (12) Danger Tags, (1) Ball Valve Lockout Device	Master Lock	**3WPA8**
2	Plastic	29	(1) Safetee Donut 2.(5) 5", (2) 1" Steel Lockout Hasps [T220], (1) Plastic utility box, (2) Laminated Steel Lock [Blue], (10) 7" Red Cable Ties [44761], (1) Cable Lockout Device 6ft, (2) Ball Valve LO Small (Red), (10) Bilingual Tags	Brady	**3TCL4**



No. 5TA78



No. 3ZM47



No. 5TA80



No. 3WPT5



No. 5TA82



No. 5TA84

BRADY

Lockout Boards

Store lockout/tagout devices. Choose from filled or unfilled lockout centers that can be customized for individual needs. Lockout stations have polycarbonate or recycled PETG board. All locks keyed different.

5-Lock Boards—Filled models include: 5 red nylon or steel body with steel shackle padlocks, 1 steel 1" jaw dia. hasp, 1 steel 1½" jaw dia. hasp, and 12 tags.

6-Lock Boards—Filled models include: 6 multicolor steel padlocks, 1 steel 1" jaw dia. hasp, 1 steel 1½" jaw dia. yellow hasp, and 10 tags with ties. Accuform Signs model includes 6 steel padlocks, ¾" shackle, 10 lockout tags, 10 plastic ties, and 2 scissor hasps.

10-Lock Boards—Filled models include: 10 red nylon or steel body with steel shackle padlocks, 2 steel 1" jaw dia. red hasps, 2 steel 1½" jaw dia. red hasps, and 12 tags. No. 3WPT5 includes 10 steel ¾" blue shackle padlocks, 3 steel 1½"-dia. lockout hasps with epoxy coating, 25 vinyl safety lockout tags, and 25 ties.

20-Lock Boards—Filled models include: 20 red nylon or steel body with steel shackle padlocks, 2 steel 1" jaw dia. red hasps, 2 steel 1½" jaw dia. red hasps, and 24 tags.

36-Lock Boards—Filled models include: 36 red safety nylon or steel body with steel shackle padlocks, 3 steel 1" jaw dia. red hasps, 3 steel 1½" jaw dia. red hasps, and 36 tags.

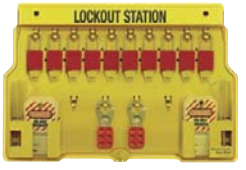
No. of Components	Padlock Material	H	W	FILLED STATION Item No.	UNFILLED STATION Item No.
5-Lock Boards					
19	Nylon	11½"	15½"	**5TA78**	**5TA73**
19	Steel	11½"	15½"	**5TA79**	**5TA73**
6-Lock Boards					
18	Steel	14"	14"	**3ZM47**	**3AT98**
18	Steel	14"	14"	**3LY48** *	**3WPR9** *
10-Lock Boards					
26	Nylon	13½"	13½"	**5TA80**	**5TA74**
26	Steel	13½"	13½"	**5TA81**	**5TA74**
39	Steel	14"	20"	**3WPT5**	**3WPT6**
20-Lock Boards					
48	Nylon	23½"	11½"	**5TA82**	**5TA75**
48	Steel	23½"	11½"	**5TA83**	**5TA75**
36-Lock Boards					
78	Nylon	21½"	23½"	**5TA84**	**5TA76**
78	Steel	21½"	23½"	**5TA85**	**5TA76**

** Bilingual—English and Spanish.*



No. 2CJK4


No. 3WPG2



No. 2CJN5


No. 3WPG3



No. 2CJK8

Master Lock BRADY

Covered Lockout Stations

Filled lockout centers can be customized for individual needs. Semitransparent cover helps protect contents. All locks are keyed different. Master Lock® models have a polycarbonate board and Brady® models have a polypropylene board.

4-Lock Stations—Include: 4 padlocks, two 1"-dia. hasps, and 12 tags.

5-Lock Stations—Include: 5 padlocks, 4 group lockout hasps (two 1", two 1½"), and 5 reusable lockout tags with cable ties.

10-Lock Stations—Nos. 2CJN5, 2CJK6, and 3WPC5 include: 10 padlocks, two 1" hasps, and 24 tags.

No. 3WPG3 includes: 10 padlocks, 6 hasps (three 1", three 1½"), and 10 tags with cable ties.

20-Lock Stations—Include: 20 padlocks, four 1" hasps, and 48 tags.

No. of Components	Lock Type	H	W	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
4-Lock Stations						
18	Aluminum	12¼"	16"	Master Lock	**2CJN4**	**2CJK3**
	Thermoplastic	12¼"	16"	Master Lock	**3WPC7** *	**3WPC8** *
	Thermoplastic	12¼"	16"	Master Lock	**2CJK4**	**2CJK3**
5-Lock Stations						
14	Plastic	17"	13¼"	Brady	**3WPG2**	**15Y601**
10-Lock Stations						
36	Aluminum	15½"	22"	Master Lock	**2CJN5**	**2CJK5**
	Thermoplastic	15½"	22"	Master Lock	**2CJK6**	**2CJK5**
	Thermoplastic	15½"	22"	Master Lock	**3WPC5** *	**3WPC6** *
26	Plastic	17"	13¼"	Brady	**3WPG3**	**15Y601**
20-Lock Stations						
72	Thermoplastic	22"	22"	Master Lock	**2CJK8**	**2CJK7**
	Thermoplastic	22"	22"	Master Lock	**4EMZ3** *	—

** Bilingual—English and Spanish.*



No. 2CJL5



No. 3WPR8


No. 5TB17



No. 2CJL8


No. 3WPT1



No. 3WPN8



No. 15Y585


No. 15Y588

Covered Lockout Stations

All lockout stations have a semitransparent lockable cover that helps protect contents.

No. of Padlocks	Padlock Material	No. of Components	Includes	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
Electrical Lockout Stations						
6	Thermoplastic	47	(6) Red Thermoplastic Padlocks, (8) Key Hooks, (1) 1" Steel Jaw Dia. Hasp, (1) Red Labeled Snap-On Hasp, (1) Compact Plug Prong Lockout, (1) Large Plug Cover, (4) Standard Toggle Universal Circuit Breaker Lockouts, (2) Tall and Wide Toggle Universal Circuit Breaker Lockouts, (2) Wall Switch Covers, (5) Moveable Dividers, (24) Tags (24) Ties	Master Lock	2CJL5	2CJL4
3	Steel	40	(1) Sign 10" x 14", (1) Gray Wire Basket 2½ x 12¼ x 7½" and Hardware, (1) Steel Rack with Mounting Hardware, Toolbox Kit Includes; (3) Laminated Steel Master Padlocks - Blue, (1) Single Booklet #2112, (3) 1½" L/O Hasp, (2) Multi-Pole Breaker Lockout, (3) Breaker Lockout Single Pole, (1) Electrical Plug Lockout, 3-In-1, (10) Lockout Tags, (14) Lock Identifiers	Brady	3WPR8	5TB25
Electrical/Valve Lockout Stations						
6	Nylon	25	(3) Red Nylon Padlocks, (3) Yellow Nylon Padlocks, (1) 1" Steel Jaw Dia. Hasp, (1) 1½" Steel Jaw Dia. Hasp, (1) 2½ to 5" Valve Lockout, (1) 1 to 2½" Valve Lockout, (1) Single Pole Breaker Lockout, (2) Multipole Breaker Lockouts, (1) Large Plug Lockout, (1) Small Plug Lockout, (10) Tags	Brady	5TB17	5TB18
6	Steel	25	(1) Adjustable Gate Valve Lockout, (1) All Purpose Cable Lockout, (1) Ball Valve Lockout, (1) 3 in 1 Plug Lockout, (2) 120/277V Clamp-On Breaker Lockouts With Cleats, (1) 480/600V Clamp-On Breaker Lockout With Cleat, (2) Universal Multipole Breaker Lockouts, (2) 1" Group Lockout Hasps, (1) 1½" Group Lockout Hasp, (6) Keyed Different Steel Padlocks, (6) Heavy Duty Reusable Lockout Tags With Nylon Cable Ties	Brady	15Y619	15Y610
6	Thermoplastic	57	(6) Red Thermoplastic Padlocks, (16) Key Hooks, (2) 1" Steel Jaw Dia. Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (4) Gate Valve Lockouts (1" to 10" Valves), (2) Ball Valve Lockouts, (1) Compact Plug Prong Lockout, (1) Large Plug Cover, (6) Standard Toggle Universal Circuit Breaker Lockouts, (2) Tall and Wide Toggle Universal Circuit Breaker Lockouts, (2) Wall Switch Covers, (5) Moveable Dividers, (24) Tags, (24) Ties	Master Lock	2CJL8	2CJL7
6	Aluminum	52	(6) Aluminum Padlocks, (2) Hasp, (1) Snap-On Hasp, (1) Adjustable Cable Lockout, (4) Gate Valve Lockouts, (2) Ball Valve Lockouts, (1) Plug Prong Lockout, (1) Plug Lockout, (8) Circuit Breaker Lockouts, (2) Wall Switch Lockouts, (24) Lockout Tags	Master Lock	3WPH5	2CJL7
0	—	98	(1) Lockout Tagout Station, 2 Keys, 3 Shelves, Box Includes; (1) OSHA Summary Sheet, (1) Ball Valve Lo - Small Red, (3) No Hole Breaker Lockout, (2) Electrical Plug Lockout, 3-In-1, (2) Safetee Donut 2½ In To 5 In, (6) 1½" Lockout Hasp, (25) Danger Tags, (3) Wall Switch Lockout, (3) Multi-Pole Breaker Lockout, (50) 7" Red Individual Cable Tie, (1) Lockout Miniposter	Brady	3WPT2	—
6	Plastic	94	(1) Lockout Tagout Station, 2 Keys, 3 Shelves, Box Includes; (50) 7" Red Individual Cable Ties, (1) Ball Valve Lockout - Small Red, (6) 1½" Lockout Hasp, (2) Safetee Donut 2½ In to 5 In, (2) Electrical Plug Lockout, 3-In-1, (1) Lockout Tagout Station, (3) Brady Safety Padlock 1.5" KD Yellow, 1 Key, (3) Brady Safety Padlock 1.5" Red, 1 Key, Plastic, (25) Prinzing Danger Tags	Brady	3WPT1	—
0	—	97	(3) Universal Circuit Breaker Lockouts, (2) Universal Wall Switch Lockouts, (2) Plug Lockouts, (2) Colored Valve Covers, (1) Ball Valve Lockout, (25) "Do Not Operate" Vinyl Tags, (6) Hasps (50) Nylon Cable Ties	Brady	3WPN8	—
6	Plastic	91	(3) Universal Circuit Breaker Lockouts, (2) Universal Wall Switch Lockouts, (2) Plug Lockouts, (2) Colored Valve Covers, (1) Ball Valve Lockout, (25) "Do Not Operate" Vinyl Tags, (6) Hasps, (50) Nylon Cable Ties, (3) 1¾" Red Keyed-Differently Padlocks, (3) 1¾" Yellow Keyed-Differently Padlocks	Brady	3WPN7	437R82
Electrical/Valve Lockout Stations and Group Lockout Boxes						
6	Plastic	30	(1) 120V Snap-On Breaker Lockout, (1) 120/277V Clamp-On Breaker Lockout, (1) 480/600V Clamp-On Breaker Lockout, (1) Universal Multi-Pole Breaker Lockout, (1) Oversized Breaker Lockout, (1) Cleat for 120/277V Clamp-On Lockout, (1) Cleat for 480/600V Clamp-On Lockout, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1)- 3-In-1 Plug Lockout, (1) 1"-2 ½" Gate Valve Lockout, (1) 1"-6 ½" Adjustable Gate Valve Lockout, (6) Brady Safety Padlocks, (12) Lockout Tags	Brady	15Y585	5TB18
6	Plastic	26	(2) 3-in-1 Plug Lockouts, (1) Mini Cable Lockout, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multipole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) 1" Group Lockout Hasps, (1) 1.5" Group Lockout Hasps, (6) Keyed Different Safety Padlocks, (6) Lockout Tags, Nylon Cable Ties	Brady	15Y588	—



No. 4XR10



No. 3WPT3



No. 5U713



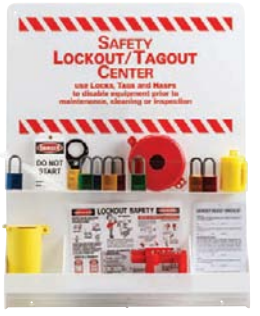
No. 1FYT6



No. 3ZM48



No. 3WPD4



No. 3WPK9



No. 15Y591

Lockout Stations

BRADY Master Lock

No. of Padlocks	Padlock Material	No. of Components	Includes	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
Standard Lockout Stations						
1	Steel	9	(1) Red Bumper Steel Padlock, (1) 1½" Steel Jaw Dia. Hasp, (2) Tags, (5) Ties	Brady	**4XR10**	**4XR11**
4	Steel	16	(4) ¾" Shackle Steel Padlocks, (10) Lockout Tags, (10) Ties, (1) 1½"-dia. Steel Lockout Hasp with Epoxy Coating	Brady	**3WPT3**	**3WPT4**
6	Steel	76	(6) Multicolor Steel Padlocks, (1) Pocket, (5) 1½" Steel Jaw Dia. Hasps, (25) Lockout Safety Booklets, (20) Tags, (20) Ties	Brady	**5U713**	**15Y609**
Electrical Lockout Stations						
1	Nylon	4	(1) Blue Nylon Padlock, (1) Pocket, (1) Large Plug Lockout, (1) Tag, (1) Tie	Brady	**1FYT6**	**3VAF1**
1	Steel	5	(1) Red Bumper Steel Padlock, (1) Single Pole Breaker Lockout, (2) Multipole Breaker Lockouts, (1) Pocket, (1) Tag, (1) Tie	Brady	**3ZM48**	—
2	Thermoplastic	10	(2) Red Thermoplastic Padlocks, (2) Standard Toggle Breaker Lockouts, (2) Wide/Tall Toggle Breaker Lockouts, (4) Tags, (4) Ties	Master Lock	**3WPD4**	**3WPC9**
Electrical/Valve Lockout Stations						
0	—	26	All Purpose Cable Lockout with 8 ft. Sheathed Cable, Large Universal Valve Lockout with Blocking Arm, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multi-Pole Breaker Lockouts, Oversized Breaker Lockout, (2) Cleats for 120/277V Clamp-On Lockouts, (2) Cleats for 480/600V Clamp-On Lockouts, Wall Switch Lockout, 110V Plug Lockout, 3-In-1 Plug Lockout, ¼" to 1" Ball Valve Lockout, 1¼" to 3" Ball Valve Lockout, (2) 1" to 2½" Gate Valve Lockouts, 1" to 6½" Adjustable Gate Valve Lockout and (2) Labeled Lockout Hasps	Brady	**35XM12**	**1FYT9**
8	Aluminum	102	(2) 1½" Blue Keyed-Different Aluminum Padlocks, (2) 1½" Gold Keyed-Different Aluminum Padlocks, (2) 1½" Green Keyed-Different Aluminum Padlocks, (2) 1½" Red Keyed-Different Aluminum Padlocks, (1) 2½" to 5" Valve Cover, (1) Large Plug Lock, (1) Small Plug Lock, (50) Lockout Checklist Forms, (2) Hasps, (10) "Do Not Start" Vinyl Tags, (2) "Danger" Magnetic Signs, (25) Cable Ties, (1) Copy of OSHA Standard 1910.147	Brady	**3WPK7**	**3WPK6**
8	Aluminum	102	(2) 1½" Blue Keyed-Different Aluminum Padlocks (2) 1½" Gold Keyed-Different Aluminum Padlocks, (2) 1½" Green Keyed-Different Aluminum Padlocks, (2) 1½" Red Keyed-Different Aluminum Padlocks, (1) 2½" to 5" Valve Cover, (1) Large Plug Lock, (1) Small Plug Lock, (50) Lockout Checklist Forms, (2) Hasps, (10) "Do Not Start" Vinyl Tags, (2) Danger Magnetic Signs, (25) Cable Ties, (1) Copy of OSHA Standard 1910.147 (25) Cable Ties	Brady	**3WPK9**	**3WPK8**
18	Nylon	93	(18) Red Nylon Keyed-Different Padlocks, (5) Pockets, (2) Labeled Aluminum Hasps, (1) 8' Sheathed Cable, (1) Large Universal Valve Lockout, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp on Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multipole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) 120/277V Clamp on Lockout Cleats, (2) 480/600V Clamp on Lockout Cleats, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 3-in-1 Plug lockout, (1) ¼" to 1" Ball Valve Lockout, (1) 1¼" to 3" Ball Valve Lockout, (2) 1" to 2½" Gate Valve Lockouts, (1) 1" to 6½' Gate Valve Lockout, (25) Tags, (25) Ties, Extra Large Lockout Station	Brady	**1FYT8**	**1FYT9**
18	Steel	68	(1) All Purpose Cable Lockout w/ 8' Sheathed Cable, (1) Large Universal Valve Lockout w/ Blocking Arm, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multi-Pole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) Cleats for 120/277V Clamp-On Lockouts, (2) Cleats for 480/600V Clamp-On Lockouts, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 3-In-1 Plug Lockout, (1) ¼"-1" Ball Valve Lockout, (1) 1 ¼"-3" Ball Valve Lockout, (2) 1"-2 ½" Gate Valve Lockouts, (1) 1"-6 ½" Adjustable Gate Valve Lockout, (2) Labeled Lockout Hasps, (18) Brady Safety Padlocks, (25) Lockout Tags	Brady	**15Y591** *	—

**** Constructed of high postconsumer recycled materials.***



No. 48KV16



No. 3PDD7



No. 3LTL4


No. 3ZG27


No. 15Y607


No. 4EMZ2

BRADY ★ Condor Master Lock

Padlock Lock Boxes, Stations, and Cabinets

- Padlocks sold separately; see page 1955.

Plastic Lock Boxes—Clear acrylic window provides visual check of contents. Wall-mountable with predrilled holes. Nos. 5TB19 and 5TB20 include attached plastic hooks. Nos. 3PDE2 and 5TA68 feature built-in lock rail and snap-in key hooks.

Steel Lock Boxes—Brady® models are tamper-resistant. Master Lock® models are wall-mountable with a stainless steel handle. Lockout message on box is in English, Spanish, and French. All boxes feature a powder-coat finish.

Steel Stations—Plastic-coated 14-ga. steel construction.

Cabinets—Durable PVC cabinets are excellent for office environments. No. 3ZG26 includes pegs for 8 keys. No. 3ZG27 has 20 key hooks. No. 15Y607 is a lockable steel cabinet with 2 keys.

Padlock Caddy—Features ergonomic handle, belt slots, and lanyard for keys. Plastic construction.

Max. No. of Padlocks	Door Type	H	W	D	Color	Brand	Item No.
Plastic Lock Boxes							
3	Clear Acrylic	6"	6"	2"	Red	Brady	**5TB19**
8	Hinged	6"	4"	5½"	Red	Brady	**3PDE2**
10	Clear Acrylic	7½"	12"	2¾"	Red	Brady	**5TB20**
16	Clear Acrylic	7½"	8½"	4¼"	Red	Brady	**5TA68**
42	Hinged	13"	13"	3½"	Red	Condor	**48KV16**
Steel Lock Boxes							
7	Sliding	7"	8"	2¼"	Red	Brady	**3PDD7**
10	Clear Acrylic	6"	15"	3"	Yellow	Brady	**5TB21**
12	Sliding	7"	16"	2¼"	Red	Brady	**3WPH3**
12	Hinged	6 45/64"	9½"	3 13/16"	Red	Brady	**44ZL14**
12	Hinged	6"	9¼"	3¾"	Red	Master Lock	**4EMZ1**
13	Hinged	6"	7⅜"	9¼"	Red	Brady	**5TA77**
13	Hinged	6"	9"	3½"	Red	Brady	**1D677**
14	Steel	12¾"	6⅜"	3½"	Yellow	Master Lock	**2CJL2**
14	Steel	12¾"	6⅜"	3½"	Red	Master Lock	**2CJL1**
34	Hinged	9"	15"	10½"	Red	Brady	**15Y531**
40	Hinged	6"	9"	3½"	Blue	Brady	**35XM04**
50	Hinged	12½"	7½"	6"	Red	Brady	**3PDE3**
Steel Stations							
4	—	2¼"	3"	1¼"	Red	Brady	**5TB27**
8	—	3"	6¼"	1½"	Red	Master Lock	**3LTL2**
22	—	3"	17½"	1½"	Red	Master Lock	**3LTL4**
24	—	3"	16"	1¼"	Red	Brady	**5TB28**
PVC Cabinets							
16	Lockable Clear Acrylic	15"	15"	3½"	White	Brady	**3ZG26**
40	Lockable Clear Acrylic	30"	15"	3½"	White	Brady	**3ZG27**
Steel Cabinets							
32	—	15½"	18"	2"	Red/White	Brady	**15Y607**
Padlock Caddy							
12	—	8"	5¼"	1"	Red	Master Lock	**4EMZ2**


No. 2CJJ4


No. 3PDD4


No. 1U177



Blue
No. J5049



No. 15Y526



No. 3BE93

★ Condor
BRADY
Master Lock®

Lockout Hasps

- Scissor-action hasps open and close similar to scissors
- Snap-on hasps push open then snap closed with spring-loaded locking arm

Lockout Hasps—Locking holes accommodate most standard lockout padlocks.

Labeled Hasps—Lock out power on line or equipment while displaying tagout message on writable, erasable surface.

Material	Hasp Type	Max. Shackle Dia.	Locking Holes	▶CHOOSE: Color	L	W	Brand	Item No.	Pkg. Qty.
Lockout Hasps									
Steel	Standard	⅜"	6	Red	5"	2⅜"	Condor	**2CJJ4**	1
Steel	Scissor-Action	⅜"	6	Red	5"	2⅜"	Brady	**15Y530**	1
Steel	Scissor-Action	⅜"	6	Red	4½"	2¾"	Brady	**15Y533**	1
Steel/Spark-Resistant	Scissor-Action	5/16"	6	Yellow	4½"	1¾"	Brady	**3PDD3**	1
Steel/Spark-Resistant	Scissor-Action	5/16"	6	Yellow	5"	2⅜"	Brady	**3PDD4**	1
Steel/Spark-Resistant	Scissor-Action	⅜"	6	Red	4½"	1¾"	Brady	**6T767**	12
Steel/Spark-Resistant	Scissor-Action	⅜"	6	Red	5"	2⅜"	Brady	**6T768**	12
Polyester-Coated Aluminum	Scissor-Action	⅜"	6	Red	4½"	2¾"	Brady	**15Y521**	1
Polyester-Coated Aluminum	Scissor-Action	⅜"	6	Red	5"	2⅜"	Brady	**15Y522**	1
Steel	Snap-On	⅜"	6	Red	4½"	1¾"	Condor	**1U177**	1
Steel	Snap-On	⅜"	6	Red	4½"	1¾"	Master Lock	**40CL93**	1
Steel	Snap-On	⅜"	6	Red	5"	2⅜"	Condor	**5T591**	1
Aluminum/Spark-Resistant	Snap-On	⅜"	6	Red	4⅜"	1½"	Condor	**2CJH7**	1
Aluminum/Spark-Resistant	Snap-On	⅜"	6	Red	4⅞"	2"	Condor	**2CJH8**	1
Aluminum/Spark-Resistant	Snap-On	⅜"	6	Red	4⅜"	1½"	Master Lock	**40CL91**	1
Aluminum/Spark-Resistant	Snap-On	⅜"	6	Red	4⅞"	2"	Master Lock	**40CL92**	1
Nylon	Snap-On	5/16"	6	Red	6⅞"	1⅝"	Master Lock	**4EMY3**	1
Nylon	Snap-On	⅜"	6	Orange	7¼"	1¾"	Brady	**15Y527**	1
Labeled Lockout Hasps									
Aluminum	Snap-On	5/16"	6	(1 Each) Blue, Gold, Green, Red, Silver	7¼"	3"	Brady	**6T443**	5
Aluminum	Snap-On	5/16"	6	Blue, Gold, Green, Silver	7¼"	3"	Brady	**J5050**	5
Anodized Aluminum	Snap-On	5/16"	6	Blue, Gold, Green, Silver	7¼"	3"	Brady	**J5049**	5
Anodized Aluminum	Snap-On	5/16"	6	(1 Each) Blue, Green, Gold, Red, Silver	7¼"	3"	Brady	**15Y526**	5
Zinc-Plated Steel	Scissor-Action	5/16"	6	Red	5½"	3⅜"	Brady	**3BE93**	5


No. J5172


No. J5180


No. J5184

Safety Padlocks

GRAINGER APPROVED

- For more lock colors, see Grainger.com®

Plastic Covered Safety Locks, Short and Long Body—Built especially for safety lockout applications. They are completely insulated against electric shocks, offer a high level of heat resistance with aluminum body, and are available in many colors with multilingual warning stickers.

Plastic Covered Safety Locks with Steel Shackle—Designed for safety lockout applications, these locks are completely insulated against electric shocks, and are available in many colors with multilingual warning stickers. Encased aluminum body provides a high level of heat resistance. Steel shackle helps secure devices with smaller diameter holes.

Aluminum Safety Locks—Feature aluminum bodies that are suitable for a wide range of applications and are available in a number of different colors. Lightweight and helps keep the user safe, but does not weigh them down. Hardened steel shackle with enhanced anti-corrosion coating.

Description	Key Type	▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Item No.	Pkg. Qty.
Plastic Covered Safety Locks, Short and Long Body									
Short Body	Different	White, Red, Blue, Green, Yellow, Orange	2"	1 37/64"	1 1/2"	3/4"	1/4"	**J5172**	1
Short Body	Different	Red, Blue, Green, Yellow, Orange, Black, Brown, Purple, White	2"	1 37/64"	1 1/2"	3/4"	1/4"	**J5173**	6
Short Body	Alike	Orange, Black, Brown, Purple, White	2"	1 9/16"	1 1/2"	3/4"	1/4"	**J5174**	3
Short Body	Different	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 37/64"	1 1/2"	3/4"	1/4"	**J5177**	6
Short Body	Alike	Red	3"	1 37/64"	1 1/2"	3/4"	1/4"	**J5178**	3
Short Body	Alike	Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 37/64"	1 1/2"	3/4"	1/4"	**J5178**	3
Long Body	Different	Black, Red, Blue, Green, Yellow, Orange	3"	1 37/64"	1 1/2"	3/4"	1/4"	**J5176**	1
Plastic Covered Safety Lock w/ Steel Shackle									
Steel Shackle	Different	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 9/16"	1 1/2"	3/4"	7/32"	**J5180**	1
Steel Shackle	Different	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 9/16"	1 1/2"	3/4"	7/32"	**J5181**	6
Steel Shackle	Alike	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 37/64"	1 1/2"	3/4"	7/32"	**J5182**	3
Steel Shackle	Alike	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	2"	1 37/64"	1 1/2"	3/4"	7/32"	**J5183**	6
Aluminum Safety Locks									
Aluminum Lock	Different	Red, Yellow, Blue, Green, Black, White, Purple	1 1/16"	1 9/16"	1"	2 1/32"	3/16"	**J5184**	1
Aluminum Lock	Alike	Red, Yellow, Blue, Green, Black, White, Purple	1 1/16"	1 9/16"	1"	2 1/32"	3/16"	**J5185**	1
Aluminum Lock with Extended Shackle	Different	Red	1 1/4"	1 9/16"	1 7/16"	2 7/32"	1/4"	**J5186**	1
Aluminum Lock with Extended Shackle	Different	Yellow, Blue, Green, Black, White, Purple	2"	1 9/16"	1 7/16"	2 7/32"	1/4"	**J5186**	1
Aluminum Lock with Extended Shackle	Alike	Red, Yellow, Blue, Green, Black, White	2"	1 9/16"	1 7/16"	2 7/32"	1/4"	**J5187**	1
Aluminum Lock with Extended Shackle, 30mm Body - Multi Pack	Alike	White, Green, Blue, Red, Purple	2"	1 9/16"	1 7/16"	2 1/32"	3/16"	**J5189**	3
Aluminum Lock with Extended Shackle, 30mm Body - Multi Pack	Alike	Yellow, White, Green, Blue, Red	2"	1 9/16"	1 7/16"	2 1/32"	3/16"	**J5190**	6
Aluminum Lock with Extended Shackle, 40mm Body - Multi Pack	Alike	Green, Yellow, White, Blue	2"	1 9/16"	1 7/16"	2 7/32"	1/4"	**J5188**	6


No. D8943


No. J0396


No. D8954

Safety Lockout Padlocks

ABUS Security-Tech Germany

Ecolution™ 72 Series—Compact and lightweight recycled aluminum body, anodized inside and outside. NANO PROTECT™ plated steel shackle provides maximum corrosion resistance.

Key Type	▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Item No.	Pkg. Qty.
Ecolution™ 72 Series								
Different	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	1"	13/16"	1/4"	**D8943**	1
Different	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	1 1/2"	13/16"	1/4"	**D8944**	1
Different	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	3"	13/16"	1/4"	**D8945**	1
Alike	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	1"	13/16"	1/4"	**D8946**	1
Alike	Silver, Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 1/2"	1 1/2"	1"	13/16"	1/4"	**D8947**	3
Alike	Silver, Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 1/2"	1 1/2"	1"	13/16"	1/4"	**D8948**	6
Alike	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	1 1/2"	13/16"	1/4"	**D8949**	1
Alike	Silver, Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 1/2"	1 1/2"	1 1/2"	13/16"	1/4"	**D8951**	3
Alike	Silver, Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 1/2"	1 1/2"	1 1/2"	13/16"	1/4"	**D8952**	6
Alike	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown, Silver	1 1/2"	1 1/2"	3"	13/16"	1/4"	**D8953**	1
Different	Red, Blue, Green, Yellow, Orange, Black	1 5/8"	1 1/2"	1"	3/4"	1/4"	**J5191**	6
Different	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1 5/8"	1 1/2"	1 1/2"	3/4"	1/4"	**J5192**	6
Different	Green, Yellow, Orange	1 5/8"	1 1/2"	3"	3/4"	1/4"	**J5193**	6
Alike	Red, Blue, Orange, Black, Purple, Silver	1 5/8"	1 1/2"	3"	13/16"	1/4"	**J5194**	3
Alike	Red, Green, Yellow, Orange, Black, Purple, Silver	1 5/8"	1 1/2"	3"	13/16"	1/4"	**J5195**	6
Alike	Red, Blue, Green, Orange, Yellow, Black, Brown, Purple, Silver	1 1/2"	1 1/2"	1"	13/16"	1/4"	**H5006**	12
Alike	Red, Blue, Green, Orange, Yellow, Black, Brown, Purple, Silver	1 1/2"	1 1/2"	1 1/2"	13/16"	1/4"	**H5007**	12
Different	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	2 17/32"	1 1/4"	1"	1"	11/64"	**J5196**	1
Alike	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	2 17/32"	1 1/4"	1"	1"	11/64"	**J5197**	3
Alike	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	2 17/32"	1 1/4"	1"	1"	11/64"	**J5198**	6
Alike	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	2 17/32"	1 1/4"	1"	1"	11/64"	**J5199**	12
Ecolution™ 74 Series								
Different	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J0396**	1
Alike	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J0397**	1
Different	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 3/4"	1 1/2"	3"	3/4"	1/4"	**J0398**	1
Different	Red, Yellow, Green, Purple, Orange, Blue, Black, Brown	3"	1 1/2"	1 1/2"	3/4"	1/4"	**J0399**	1
Alike	Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J0400**	1
Alike	Red, Yellow, Green, Orange, Blue, Black, Brown, Purple	3"	1 1/2"	1 1/2"	3/4"	1/4"	**J0401**	1
Alike	Red, Blue, Green, Yellow	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J0402**	3
Alike	Red, Blue, Green, Yellow	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J0403**	6
Different	Red, Blue, Green, Yellow, Orange, Black, Brown, Purple, White, Assorted	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J5200**	6
Alike	Black, Brown, Purple, White, Orange	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J5201**	3
Alike	Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J5202**	6
Different	Red	3"	1 1/2"	1 1/2"	3/4"	1/4"	**J5203**	6
Alike	Red	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J5204**	3
Alike	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	1/4"	**J5205**	6
Different	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	13/64"	**J5206**	1
Different	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	13/64"	**J5207**	6
Alike	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	13/64"	**J5208**	3
Alike	Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 3/4"	1 1/2"	1 1/2"	3/4"	13/64"	**J5209**	6
Laminated Ecolution™ 41 Series								
Different	Red, Blue, Green, Black, Yellow, White	1 3/8"	1 1/2"	3/4"	13/16"	17/64"	**D8954**	1
Different	Red, Blue, Green, Black, Yellow, White	1 3/8"	1 1/2"	1 7/8"	13/16"	17/64"	**D8955**	1
Alike	Red, Blue, Green, Black, Yellow, White	1 3/8"	1 1/2"	3/4"	13/16"	17/64"	**D8956**	1
Alike	Red, Blue, Green, Black, Yellow, White	1 3/8"	1 1/2"	1 7/8"	13/16"	17/64"	**D8957**	1
Different	Orange	1 5/16"	1 1/2"	3/4"	3/4"	9/32"	**J5210**	1
Different	Red, Blue, Green, Black, Brown, Purple, White	1 5/16"	1 1/2"	3/4"	3/4"	9/32"	**J5211**	6
Different	Red, Blue, Yellow, Green, Black, Purple, White	1 5/16"	1 1/2"	2"	3/4"	9/32"	**J5213**	6
Alike	Red, Green, Black, Brown, Purple	1 5/16"	1 1/2"	2"	1 1/16"	9/32"	**J5214**	3
Alike	Red, Blue, Yellow, Green, Black, Brown, Purple, White	1 5/16"	1 1/2"	2"	1 1/16"	9/32"	**J5215**	6
Different	Red, Blue, Yellow, Green, Black, Brown, Purple, White	1 5/16"	1 1/2"	3"	3/4"	9/32"	**J5216**	6
Alike	Red, Blue, Yellow, Green, Black, Brown, Purple, White	1 5/16"	1 1/2"	3"	1 1/16"	9/32"	**J5217**	3
Alike	Red, Blue, Yellow, Green, Black, Brown, Purple, White	1 5/16"	1 1/2"	3"	1 1/16"	9/32"	**J5218**	6

Locks come standard with a 6-pin cylinder for maximum key changes.

- **Minimum 70% postconsumer recycled content**

Ecolution™ 74 Series—High recycled content padlocks are spark-resistant and eco-friendly. Dielectric plastic-encased aluminum body and shackle provide extra safety and durability. Locks include trilingual labels for customization. Support LEED building certification.

Laminated Ecolution™ 41 Series—Our laminated steel safety padlocks are suitable for both safety and security purposes. They are made with high-quality recycled steel laminates that are individually coated with a non-hazardous cadmium-free plating, giving the lock an extremely good level of rust resistance. Colored vinyl bumpers are available for easy identification and compliance with OSHA regulations. The perfect safety lock for use in harsh conditions and for added security.

Master Lock AMERICAN LOCK

High-Visibility and Anodized Aluminum Lockout Padlocks

- 5-pin or 6-pin cylinder
- Keyed different or keyed alike, 2 keys per lock
- For custom lock configurations, see Grainger.com®

High-Visibility Powder-Coated— Vibrant colors allow easy lockout customization and identification. Aluminum body and baked-on, powder-coated finish ideal for corrosive environments.

Anodized—Anodized finish, corrosion-resistant 1½"-thick aluminum body with boron alloy shackle makes padlocks ideal for food service facilities and washdown applications.



No. D1916



No. D1919

▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Brand	ALIKE Item No.	ALIKE Pkg. Qty.	DIFFERENT Item No.	DIFFERENT Pkg. Qty.
High-Visibility, Powdered Coated										
Green	1⅞"	1½"	1"	¾"	¼"	Master Lock	**D1915**	1	—	—
Anodized										
Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1⅞"	1½"	1"	¾"	¼"	American Lock	**D1917**	1	**D1916**	1
Black, Blue, Green, Orange, Red, Yellow	1⅞"	1½"	1"	¾"	¼"	American Lock	**D5335**	6	—	—
Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1⅞"	1½"	1½"	¾"	¼"	American Lock	**D1919**	1	**D1918**	1
	1⅞"	1½"	3"	¾"	¼"	American Lock	**D8965**	1	**E0163**	1
Blue, Green, Red, Yellow	1⅞"	1½"	1"	¾"	¼"	American Lock	**D5334**	3	—	—
	1⅞"	1½"	1½"	¾"	¼"	American Lock	**E7785**	3	—	—
	1⅞"	1½"	1½"	¾"	¼"	American Lock	**E7786**	6	—	—
	1⅞"	1½"	1½"	¾"	¼"	American Lock	**E7787**	12	—	—
	1⅞"	1½"	1"	¾"	¼"	American Lock	**D5336**	12	—	—

Master Lock BRADY

Steel Body Safety Lockout Padlocks

- 6 bumper colors for identification
- Keyed alike or keyed different, 2 keys per lock
- For custom lock configurations, see Grainger.com®

Master Lock Steel Laminated Series—Reinforced laminated ¾"-thick steel construction.

Brady Assorted Steel Laminated Locks—Shackle is made of a special metal alloy to increase durability against cutting, prying, and twisting.



No. D1927


No. 3LTH5

▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	ALIKE Item No.	ALIKE Pkg. Qty.	DIFFERENT Item No.	DIFFERENT Pkg. Qty.
Master Lock Steel Laminated Series									
Yellow, Red, Blue, Black	1¼"	1 9/16"	¾"	⅝"	9/32"	**D5331**	3	—	—
Yellow, White, Red, Green, Blue, Black	1¼"	1 9/16"	¾"	⅝"	9/32"	**D5332**	6	**D1927**	1
	1¼"	1 9/16"	¾"	⅝"	9/32"	**F0076**	1	—	—
	1¼"	1 9/16"	2"	⅝"	9/32"	**F0078**	1	**D1931**	1
Brady Assorted Steel Laminated Locks, 1 of each color per pack									
Assorted	1⅛"	1 5/16"	¾"	¾"	¼"	—	—	**3LTH5**	6
	1⅛"	1 5/16"	2"	1 3/16"	¼"	—	—	**3LTH7**	6

Safety Lockout Padlocks

- 6-pin key-retaining cylinder (except No. H1700 is 5-pin)
- Keyed different or keyed alike, 1 key per lock
- Danger labels included

Note: For keyed alike or master keying, or for key numbers not listed, call 1-800-GRAINGER (472-4643).

Additional fees may apply.

Zenex™ Thermoplastic— Lightweight, nonconductive, and durable Zenex® thermoplastic padlock body can be customized with permanent write-on labels. Key retaining feature will not release key when lock is open. Ensures padlock is not accidentally left unlocked.

Nonconductive Shackle—Nonmagnetic and nonsparking padlocks are ideal for electrical temperamental environments and confined-space applications. Nonconductive nylon shackle, brass key, and cylinder.

Fiberglass-Reinforced Nylon—Padlocks have nonconductive bodies (Nos. H1705 and H1707 are completely nonconductive). Key retaining system prevents key from being removed until shackle is completely closed. No. H1700 is compact for small spaces.

RecycLock™ Safety Padlocks—High recycled content padlocks are spark-resistant and eco-friendly. Dielectric plastic-encased aluminum body and shackle provide extra safety and durability.

6-pin key-retaining cylinder. Locks include trilingual labels for customization.

- Minimum 70% post-consumer recycled content

Note: Keyed differently locks include 1 key per lock. For keyed-alike products not listed or master keying, call your local branch. Additional fees may apply.

ZING Master Lock BRADY


No. D1948


No. D5337


No. D1942

▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Brand	ALIKE Item No.	ALIKE Pkg. Qty.	DIFFERENT Item No.	DIFFERENT Pkg. Qty.
Zenex™ Thermoplastic										
Red	3"	1½"	1½"	25/32"	¼"	Master Lock	**F0082**	1	—	—
Black, Blue, Green, Orange, Red, Yellow	3"	1½"	1½"	25/32"	¼"	Master Lock	**D5327**	3	—	—
	3"	1½"	1½"	25/32"	¼"	Master Lock	**D5328**	6	—	—
Green, Orange, Yellow, Purple, Blue, Black, Red	1¾"	1½"	1½"	25/32"	¼"	Master Lock	**F0080**	1	—	—
Black, Blue, Green, Orange, Purple, Red, Teal, Yellow	1¾"	1½'	1½"	25/32"	¼"	Master Lock	—	—	**D1944**	1
Black, Blue, Green, Orange, Purple, Red, Yellow, Teal	3"	1½"	1½"	25/32"	¼"	Master Lock	—	—	**D1948**	1
Zenex™ Thermoplastic Stainless Steel Shackle										
Black, Blue, Green, Orange, Purple, Red, Teal, Yellow, White	1⅛"	1⅜"	1½"	⅝"	3/16"	Master Lock	—	—	**D5337**	1
	1 3/16"	1⅜"	1½"	⅝"	3/16"	Master Lock	—	—	**G6057**	1
Red	1¾"	1½"	1½"	¼"	¼"	Master Lock	**32V005**	6	—	—
Nonconductive Shackle										
Red, Blue, Yellow, Orange, Green, Black, Teal	1¾"	1½"	1½"	25/32"	¼"	Master Lock	—	—	**D1942**	1
Yellow, Black, Blue, Green, Orange, Red	1¾"	1½"	1½"	25/32"	¼"	Master Lock	**D5324**	3	—	—
Black, Blue, Green, Orange, Red, Yellow	1¾"	1½"	1½"	25/32"	¼"	Master Lock	**D5325**	6	—	—
	1⅛"	1⅜"	1½"	⅝"	3/16"	Master Lock	**D5338**	3	—	—
	1⅛"	1⅜"	1½"	⅝"	3/16"	Master Lock	**D7355**	6	—	—
Fiberglass Reinforced Nylon										
Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1¾"	1½"	1½"	¾"	¼"	Brady	**H1699**	6	**H1705**	6
	1¾"	1½"	1½"	¾"	¼"	Brady	**H1707**	6	—	—
	1⅖"	1⅛"	1"	¾"	13/64"	Brady	—	—	**H1700**	1
Thermoplastic										
Red, Blue, Green, Yellow, Orange, Black	1¾"	1½"	1½"	¾"	¼"	Brady	—	—	**D1949**	1
	1¾"	1½"	1½"	¾"	¼"	Brady	—	—	**D1951**	6
RecycLock®										
Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1¾"	1½"	1½"	11/16"	¼"	Zing	—	—	**D8958**	1
	1¾"	1½"	3"	11/16"	¼"	Zing	—	—	**D8959**	1
Red, Blue, Green, Yellow	1¾"	1½"	1½"	11/16"	¼"	Zing	**D8964**	6	—	—



No. 1XRU4



No. 1XRV1



No. 1XRU5

Padlocks

GRAINGER APPROVED

- Include 2 keys

Body Color	Shackle Height	Shackle Dia.	Shackle Width	Body Height	Body Width	Body Thickness	No. of Pins	ALIKE Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.	DIFFERENT Opens with Key No.	DIFFERENT Mfr. Model	DIFFERENT Item No.
Aluminum													
Silver	49/64"	13/64"	1 3/16"	1 31/32"	1 3/16"	33/64"	4	—	—	—	—	48JP86	**48JP86**
Silver	15/16"	9/32"	7/8"	1 47/64"	1 25/32"	13/32"	5	—	48JP95	**48JP95**	—	—	—
Silver	31/32"	5/16"	7/8"	1 57/64"	1 31/32"	13/32"	5	—	48JP98	**48JP98**	—	—	—
Silver	31/32"	5/16"	7/8"	1 57/64"	1 25/32"	1 7/64"	5	—	48JR01	**48JR01**	—	—	—
Silver	31/32"	5/16"	7/8"	1 51/64"	1 25/32"	1 7/64"	5	—	48JR03	**48JR03**	—	—	—
Silver	1"	13/64"	7/8"	1 19/64"	1 3/16"	33/64"	4	—	48JP87	**48JP87**	—	—	—
Silver	1"	15/64"	7/8"	1 17/32"	1 37/64"	13/32"	5	—	48JP89	**48JP89**	—	—	—
Silver	1"	15/64"	15/64"	2 1/16"	1 37/64"	13/32"	5	—	—	—	—	48JP88	**48JP88**
Silver	1"	15/64"	15/64"	2 7/16"	1 25/32"	13/32"	5	—	—	—	—	48JP94	**48JP94**
Silver	1"	15/64"	15/64"	2 7/16"	1 31/32"	13/32"	5	—	—	—	—	48JP96	**48JP96**
Yellow	1"	9/32"	13/16"	2 1/8"	1 25/32"	1 7/64"	5	—	—	—	—	48JP99	**48JP99**
Silver	1 1/2"	15/64"	15/64"	2 7/16"	1 37/64"	13/32"	5	—	—	—	—	48JP90	**48JP90**
Silver	1 1/2"	5/16"	1 1/4"	1 17/32"	1 25/32"	1 7/64"	5	—	48JR04	**48JR04**	—	—	—
Silver	1 9/16"	15/64"	7/8"	1 35/64"	1 37/64"	13/32"	5	—	48JP91	**48JP91**	—	—	—
Silver	2 1/2"	15/64"	7/8"	1 33/64"	1 37/64"	13/32"	5	—	48JP93	**48JP93**	—	—	—
Silver	2 1/2"	15/64"	19/64"	2 1/16"	1 37/64"	13/32"	5	—	—	—	—	48JP92	**48JP92**
Brass													
Yellow	—	1/4"	13/16"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR05	**48JR05**
Yellow	7/8"	1/4"	13/16"	1 33/64"	1 37/64"	33/64"	5	—	48JR06	**48JR06**	—	—	—
Yellow	15/16"	1/4"	15/16"	1 35/64"	1 37/64"	33/64"	5	—	48JR10	**48JR10**	—	—	—
Yellow	15/16"	1/4"	19/16"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR09	**48JR09**
Yellow	31/32"	9/32"	1"	1 11/16"	1 37/64"	33/64"	5	—	48JR14	**48JR14**	—	—	—
Yellow	31/32"	9/32"	1"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR13	**48JR13**
Yellow	2 1/2"	1/4"	15/16"	1 35/64"	1 37/64"	33/64"	5	—	48JR12	**48JR12**	—	—	—
Yellow	2 1/2"	1/4"	15/16"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR11	**48JR11**
Yellow	2 1/2"	9/32"	1"	1 11/16"	1 37/64"	33/64"	5	—	48JR16	**48JR16**	—	—	—
Yellow	2 1/2"	9/32"	1"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR15	**48JR15**
Yellow	2 3/4"	1/4"	13/16"	1 9/16"	1 37/64"	33/64"	5	**GR9**	48JR08	**48JR08**	—	—	—
Yellow	2 3/4"	1/4"	1 1/2"	2 3/8"	1 37/64"	33/64"	5	—	—	—	—	48JR07	**48JR07**
Steel													
Silver	5/8"	3/16"	9/16"	1"	1 1/8"	7/8"	4	**GV281**	1XRU2	**1XRU2**	—	1XRT9	**1XRT9**
Silver	27/32"	1/4"	21/32"	1 1/3"	1 3/4"	7/8"	4	**GM1086**	1XRT6	**1XRT6**	—	1XRT4	**1XRT4**
Silver	7/8"	1/4"	3/4"	1 1/3"	1 9/16"	7/8"	4	**GM1261**	1XRT7	**1XRT7**	—	1XRT5	**1XRT5**
Silver	1 1/4"	5/16"	1"	1 1/2"	2"	1"	4	**GM1307**	1XRU1	**1XRU1**	—	1XRT8	**1XRT8**
Silver	1 1/2"	1/4"	3/4"	1 1/3"	1 9/16"	7/8"	4	**GM1656**	1803KALFWWG	**1XRU9**	—	1XRV1	**1XRV1**
Silver	2"	1/4"	3/4"	1 1/3"	1 9/16"	7/8"	4	**GM1365**	1803KALHWWG	**1XRU4**	—	1XRU3	**1XRU3**
Silver	2 1/2"	1/4"	21/32"	1 1/3"	1 3/4"	7/8"	4	**GM1510**	1801KALJWWG	**1XRU6**	—	1XRU5	**1XRU5**



No. 3T976



No. 4T083



No. 3T982

Master Lock

Laminated Steel Padlocks

All padlocks have dual lever-locking shackle mechanism, antidrill hardened bottom plate, and include 2 keys.

MASTER LOCK® COMMERCIAL

Hardened boron and hardened steel shackle provides greater resistance to cutting. Include countersunk rivets to reduce potential for prying and dual bumpers to prevent damage to property. Proprietary rustproofing extends lock life.

BumpStop®—Provide high level for increased security against bump attacks.

Combo Packs—Keyed alike laminated padlocks with random key number assignments. No. 3HUJ5 has two padlocks, 3HUJ4 has three padlocks, and 3HWK7 has four padlocks.

Shackle Height	Shackle Dia.	Shackle Width	Shackle Material	Body Height	Body Width	Body Thickness	No. of Pins	Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.	DIFFERENT Mfr. Model	DIFFERENT Item No.
Master Lock® Commercial												
2 1/2"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A152	5KALJ	**3T980**	5LJ	**3T981**
2 1/2"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A214	5KALJ	**3JZC8**	—	—
1 1/2"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A1010	5KALF	**3HUA9**	5LF	**3HUA7**
1"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A418	5KA	**4T093**	5	**4T082**
1"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A326	5KA	**4T084**	—	—
1"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A565	5KA	**4T088**	—	—
15/16"	5/16"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	5	10R40	81KA	**3HVZ5**	81	**3HVZ3**
1 1/2"	5/16"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	5	10R41	81KALF	**3HVZ9**	81LF	**3HVZ7**
2 1/2"	5/16"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	5	10R41	81KALJ	**3HWA4**	81LJ	**3HWA2**
2 1/2"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	2440	1KALJ	**3T976**	1LJ	**3T977**
2 1/2"	5/16"	3/4"	Hardened Steel	1 15/16"	1 3/4"	7/8"	4	2126	1KALJ	**3JZA2**	—	—
2 1/2"	5/16"	3/4"	Hardened Steel	1 15/16"	1 3/4"	7/8"	4	2729	1KALJ	**3JZA5**	—	—
1 1/2"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	2008	1KALF	**3HUA2**	1LF	**3HTZ9**
5 3/4"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	X2355	1KALN	**3HUA6**	1LN	**3HUA4**
15/16"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	2246	1KA	**1A445**	1	**1A375**
15/16"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	X2289	1KA	**4T086**	—	—
15/16"	5/16"	3/4"	Hardened Steel	1 5/16"	1 3/4"	7/8"	4	X2420	1KA	**4T091**	—	—
15/16"	5/16"	3/4"	Hardened Steel	1 15/16"	1 3/4"	—	4	2081	1KA-2081	**3JYZ8**	—	—
2"	9/32"	5/8"	Hardened Steel	1 1/4"	1 9/16"	3/4"	4	344	3KALH	**3T979**	3LH	**5T812**
1 1/2"	9/32"	5/8"	Hardened Steel	1 9/16"	1 9/16"	3/4"	4	851	3KALF	**3HTZ7**	3LF	**3HTZ5**
1 1/2"	9/32"	5/8"	Hardened Steel	1 1/4"	1 9/16"	3/4"	4	536	3KALF	**3JYY8**	—	—
3/4"	9/32"	5/8"	Hardened Steel	1 1/4"	1 9/16"	3/4"	4	3476	3KA	**1A446**	—	—
3/4"	9/32"	5/8"	Hardened Steel	1 1/4"	1 9/16"	3/4"	4	410	3KA	**4T087**	—	—
3/4"	9/32"	5/8"	Hardened Steel	1 1/4"	1 9/16"	3/4"	4	3092	3KA	**4T092**	—	—
3/4"	9/32"	5/8"	Hardened Steel	2 1/4"	1 9/16"	3/4"	4	—	—	—	3	**1A376**
Master Lock® Commercial with BumpStop®												
1"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A326	5NKA	**4EZJ9**	5N	**4EZJ8**
2 1/2"	3/8"	15/16"	Boron Hardened Steel	1 1/2"	2"	1"	4	A152	5NKALJ	**4EZK4**	—	—
Master Lock® Commercial Combo Packs-Key Alike												
3/4"	9/32"	5/8"	Steel	1 9/16"	1 9/16"	3/4"	4	—	3QCOM	**3HWK7**	—	—
2 1/2"	5/16"	3/4"	Steel	1 5/16"	1 3/4"	7/8"	4	—	1TRILJCOM	**3HUJ4**	—	—
1"	3/8"	15/16"	Steel	1 1/2"	2"	1"	4	—	5TCOM	**3HUJ5**	—	—
Master Lock® General Security												
2 1/2"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	1/2"	4	P518	7KALJ	**3T984**	7LJ	**3T985**
1 1/2"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	1/2"	4	P241	7KALF	**3HWC5**	7LF	**3HUC2**
9/16"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	1/2"	4	P225	7KA	**4T085**	7	**4T083**
9/16"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	1/2"	4	P569	7KA	**4T089**	—	—
9/16"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	1/2"	4	P256	7KA	**4T094**	—	—
2 1/2"	3/16"	1/2"	Steel	1 1/16"	1 1/8"	—	4	P316	7KALJ-P316	**3JYX7**	—	—
Master Lock® Warded												
5/8 to 2"	9/32"	13/16"	Steel	1 3/4"	1 3/4"	3/4"	—	—	—	—	510D	**3HUC5**
13/16"	9/32"	13/16"	Steel	1 1/8"	1 3/4"	3/4"	—	263	500KA	**3T982**	—	—
1/2"	3/16"	1/2"	Steel	1 1/8"	1 1/8"	1 3/4"	—	75	105KA	**3HUC4**	105D	**3HUC3**
5/8"	1/4"	9/16"	Steel	1"	1 1/2"	3/4"	4	338	22KAWWG-338	**3T978**	—	—
5/8 to 2"	9/32"	13/16"	Steel	1 3/4"	1 3/4"	3/4"	—	F27	510KAD	**3HUC6**	—	—
5/8"	1/4"	9/16"	Steel	1"	1 1/2"	3/4"	—	—	—	—	22	**1A377**
Master Lock® BumpStop®												
3/4"	9/32"	5/8"	Hardened Steel	1 9/16"	1 9/16"	3/4"	4	3113	3KA	**3HWG3**	—	—

Breakaway Shackle Padlocks

Master Lock

Laminated steel padlocks feature a warded tumbler and a special breakaway shackle for emergency access to sprinkler shut-off valves and fire hose. Shackle is easily broken with a hammer blow. Padlocks are keyed alike and include 2 keys.



No. 1U176

Shackle Dim. Dia.	Shackle Dim. H	Shackle Dim. W	Shackle Material	Body Dim. W	Body Dim. Thickness	Opens with Key No.	Mfr. Model	Item No.
9/32"	13/16"	13/16"	Steel	1 3/4"	15/16"	229	500KABRK-229	**1U176**
9/32"	2"	13/16"	Steel	1 3/4"	15/16"	229	500KABRKLH	**4DJR4**

Single-Post Shackle Padlocks

Master Lock

For use with vending machines, utility valve equipment, meters, and wherever a less accessible shackle is desired. Removable hardened steel shackles are inaccessible to cutters once engaged. Feature dual-locking levers, a hardened steel bottom plate for extra drill resistance, and a 4-pin tumbler.



No. 3HUH9

Shackle Dia.	Shackle Height	Shackle Width	KEYED ALIKE Opens with Key No.	KEYED ALIKE Mfr. Model	KEYED ALIKE Item No.	KEYED DIFFERENT Opens with Key No.	KEYED DIFFERENT Item No.
3/8"	5/8"	5/8"	522	443KA	**3HWK3**	—	**3HUH9**
3/8"	7/8"	5/8"	456	443KALE	**3HWK4**	—	**3HUJ1**

Government Padlocks

AMERICAN LOCK

Meet stringent U.S. Government CID-A-A-59486 and CID-A-A59487 standards, including bump-resistance requirement.

Solid Steel—For added security, all models have hardened steel shackles, 5-pin rekeyable cylinders, and nonremovable keys. Bodies are stamped "US". Zinc-plated. 2 brass keys included.

Solid Brass—Corrosion-resistant brass body stands up to the elements for outdoor use. 5-pin nonrekeyable cylinder. Bodies are stamped "US". Additional NSNs available, call 1-800-GRAINGER (472-4643).



Solid Brass

National Stock No.	Shackle Dia.	Shackle Height	Shackle Width	Shackle Material	Body Height	Body Width	Body Thickness	ALIKE Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.	DIFFERENT Opens with Key No.	DIFFERENT Mfr. Model	DIFFERENT Item No.
Steel													
534000-158-3805	5/16"	1 1/8"	3/4"	Boron Hardened Steel	—	1 3/4"	3/4"	MJ34822 or DG34822	A5200GLNKA - DG34822	**6DPX9**	—	A5200GLN	**6DPY1**
—	5/16"	1 1/8"	3/4"	Boron Hardened Steel	—	—	—	—	A5200GLNKAS6	**33RL37**	—	—	**—**
534000-158-3807	5/16"	1 1/8"	3/4"	Boron Hardened Steel	—	1 3/4"	3/4"	—	—	**—**	—	A5200GLWN	**6DPY2**
Brass													
5340-01-412-7004	1/4"	1"	3/4"	Brass	1.695"	1 1/2"	3/4"	DG34823	ASL40NKAB - DG34823	**6DPY0**	—	—	**—**
5340-01-346-7462	1/4"	1"	3/4"	Brass	1 7/10"	1 1/2"	3/4"	—	—	**—**	—	ASL40NB	**6DPY3**

Brass Padlocks

Master Lock · AMERICAN LOCK · GA GRAINGER APPROVED · ABUS Security Tech Germany

- Include 2 keys

Pro Series® Solid Brass—BumpStop® feature stops the transfer of force from the bump key to the pins, preventing rotation of the cylinder so the padlock remains locked. Solid brass body and brass cylinder. Replaceable hardened boron alloy shackle has dual ball-bearing locking mechanism. Rekeyable cylinder provides tens of thousands of key changes.

Solid Brass with Brass Tag—Have a zinc-plated boron shackle and 5-pin cylinder. Include a riveted blank brass tag, which can be field engraved for identification purposes.

GA Solid Brass—Provide value and security. Exclusively from Grainger.

Laminated Brass—Laminated brass body and brass cylinder. Shackle has dual lever-locking mechanism.

Economy Solid Brass—Brass body and cylinder offer corrosion resistance.

High Security Solid Brass—Feature a dimple key with up to 10-pin cylinder with antipick mushroom pins that offer high resistance to picking plus multiple key combinations. Reversible dimple key is easy to insert.



Pro Series® Solid Brass



Laminated Brass



Solid Brass with Brass Tag

Shackle Dia.	Shackle Height	Shackle Width	Shackle Material	Body Height	Body Width	Body Thickness	No. of Pins	Brand	Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.	KEYED DIFFERENT Mfr. Model	KEYED DIFFERENT Item No.
Pro Series® Solid Brass													
1/4"	1 1/16"	25/32"	Boron Hardened Steel	—	1 9/16"	15/16"	5	Master Lock	10G200	6830KA10G200	**4RD86**	6830	**4RD85**
5/16"	1 3/16"	29/32"	Boron Hardened Steel	—	1 3/4"	1"	5	Master Lock	10G201	6840KA10G201	**4RF01**	—	**—**
3/8"	1 1/2"	29/32"	Boron Hardened Steel	—	2"	1"	5	Master Lock	10G202	6850KA10G202	**4RF03**	6850	**4RF02**
Pro Series® Solid Brass with BumpStop®													
1/4"	1 1/16"	25/32"	Boron Hardened Steel	—	1 9/16"	15/16"	5	Master Lock	10G044	6830NKA	**4EZH3**	—	**—**
5/16"	1 3/16"	—	Hardened Steel	—	1 3/4"	—	5	Master Lock	—	—	**—**	6001NLFCNUS	**38W801**
3/8"	1 1/2"	29/32"	Boron Hardened Steel	—	2"	1"	5	Master Lock	10G034	6850NKA	**4EZG8**	—	**—**
Solid Brass with Brass Tag													
1/4"	1 1/2"	3/4"	Boron Hardened Steel	1 13/16"	1 1/2"	3/4"	5	American Lock	25314	A41KATAG	**4EZN8**	A41TAG	**4EZN7**
1/4"	3"	3/4"	Boron Hardened Steel	1 13/16"	1 1/2"	3/4"	5	American Lock	25314	A42KATAG	**4EZP1**	A42TAG	**4EZN9**
GA Solid Brass													
1/4"	2 1/2"	1"	Hardened Steel	1 7/16"	1 3/4"	5/8"	5	GA	M10	1XRW1	**1XRW1**	—	**—**
1/4"	1 1/2"	3/4"	Hardened Steel	1 9/32"	1 9/16"	1/2"	4	GA	—	—	**—**	1843DLFWWG	**1XRV7**
1/4"	2"	3/4"	Hardened Steel	1 9/32"	1 9/16"	1/2"	4	GA	—	—	**—**	1843DLHWWG	**1XRV8**
High-Security Brass													
1/4"	2 1/2"	13/16"	Hardened Steel	1 1/2"	1 1/2"	1/2"	4	ABUS	—	55HB/40-63 KA	**14J892**	—	**—**
1/4"	13/16"	13/16"	Hardened Steel	1 1/2"	1 1/2"	1/2"	4	ABUS	—	55/40 KA	**14J890**	—	**—**
Laminated Brass													
3/16"	1 1/2"	1/2"	Steel	1 1/8"	1 1/8"	1/2"	4	Master Lock	P812	8KALF	**3HUD2**	8LF	**3HUD1**
3/16"	9/16"	1/2"	Steel	1 1/8"	1 1/8"	1/2"	4	Master Lock	P451	8KA	**3HWE2**	8	**3HWD9**
9/32"	2"	5/8"	Chrome Plated Hardened Steel	1 9/16"	1 9/16"	3/4"	4	Master Lock	2525	4KALH	**3HUD4**	4LH	**3HUD3**
9/32"	3/4"	5/8"	Chrome Plated Hardened Steel	—	1 9/16"	3/4"	4	Master Lock	712	4KA-0712	**1U171**	4	**1U170**
5/16"	1 1/2"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	4	Master Lock	404	2KALF	**3HUD6**	2LF	**3HUD5**
5/16"	2 1/2"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	4	Master Lock	505	2KALJ	**3HUD8**	2LJ	**3HUD7**
5/16"	5 3/4"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	4	Master Lock	540	2KALN	**3HUE1**	2LN	**3HUD9**
5/16"	15/16"	3/4"	Hardened Steel	1 3/4"	1 3/4"	7/8"	4	Master Lock	X2431	2KA-X2431	**1U169**	2	**1U168**
3/8"	1"	15/16"	Boron Hardened Steel	2"	2"	1"	4	Master Lock	A731	6KA	**3HWF7**	6	**3HWF6**
3/8"	2 1/2"	15/16"	Boron Hardened Steel	2"	2"	1"	4	Master Lock	A690	6KALJ	**3HWG2**	—	**—**
Economy Solid Brass													
5/32"	7/16"	3/8"	Hardened Steel	3/4"	3/4"	3/8"	3	Master Lock	213	4120KA	**4YH20**	—	**—**
5/32"	7/16"	3/8"	Steel	3/4"	3/4"	3/8"	3	Master Lock	—	—	**—**	4120WWG	**4YH19**
3/16"	9/16"	9/16"	Hardened Steel	1"	1 1/8"	1/2"	3	Master Lock	314	4130KAWWG	**4YH22**	4130	**4YH21**
3/16"	9/16"	9/16"	Hardened Steel	—	1 1/8"	—	3	Master Lock	243	4130KA-243	**3LXU5**	—	**—**
1/4"	13/16"	13/16"	Hardened Steel	1 1/4"	1 1/2"	1/2"	4	Master Lock	3231	4140KA	**4YH24**	4140	**4YH23**
1/4"	13/16"	13/16"	Hardened Steel	—	—	—	—	Master Lock	2341	4140KA-2341	**3LXU8**	—	**—**
1/4"	1 1/16"	25/32"	Boron Hardened Steel	—	1 9/16"	—	5	Master Lock	10G121	6830KA-10G121	**3JZJ5**	—	**—**
9/32"	15/16"	1"	Hardened Steel	1 1/2"	1 7/8"	9/16"	5	Master Lock	41242	4150KA	**4YH26**	4150	**4YH25**
9/32"	15/16"	7/8"	Hardened Steel	—	1 7/8"	—	5	Master Lock	41332	4150KA	**3LXV2**	—	**—**
3/8"	2 1/2"	25/32"	Boron Hardened Steel	—	2"	—	5	Master Lock	10G013	6850KALJ-10G013	**3KJL2**	—	**—**



No. 6T414



No. 6T403





No. 3JZG5





No. 1XRU7

For keyed alike products not listed or master keying, please call 1-800-GRAINGER (472-4643).

Master Lock. GA GRAINGER APPROVED

High- and Standard-Security Weather-Resistant Padlocks

Covered padlocks withstand harsh weather and corrosive environments. 2 brass keys included. Models with BumpStop® technology stop the transfer of force from the bump key to the pins, preventing rotation of the cylinder so the padlock remains locked.

Pro Series® Iron Shrouded—Shrouded padlocks offer superior resistance to cutting by minimizing shackle exposure.

Weather Tough™ Laminated Steel—Padlocks have chrome rustproofing for strength and longer life. Rekeyable cylinders provide tens of thousands of key changes.

Thermoplastic-Coated Laminated Steel—Padlock protects against moisture, dirt, and grime. Hardened steel shackle has molded cover for superior cut resistance. Non-rekeyable, 4-pin, W1 cylinder offers strong pick resistance.

GA Laminated Steel—Provide value and security. Exclusively from Grainger.

									KEYED ALIKE			KEYED DIFFERENT			
Shackle Dia.	Shackle Height	Shackle Width	Color	Shackle Material	Body Width	Body Thickness	No. of Pins	Brand	Opens with Key No.	Mfr. Model	Item No.	Opens with Key No.	Mfr. Model	Item No.	
High-Security Pro Series® Iron Shrouded															
7/16 in	3/4 in	7/8 in	Silver	Boron Alloy	2 5/8"	1 5/16"	5	Master Lock	10G018	6327KA	**6T415**	—	6327	**6T414**	
3/8 in	3/4 in	7/8 in	Silver	Boron Alloy	2 3/8"	1 3/16"	5	Master Lock	10G017	6325KA	**6T413**	—	6325	**6T412**	
5/16 in	3/4 in	7/8 in	Silver	Boron Alloy	2 1/8"	1"	5	Master Lock	10G016	6321KA	**6T411**	—	6321	**6T410**	
High-Security WeatherTough™ Laminated Steel															
7/16 in	1 3/8 in	7/8 in	Silver	Boron Hardened Steel	2 5/8"	1 5/16"	5	Master Lock	10G015	6127KA	**6T409**	10G015	6127	**6T408**	
3/8 in	1 3/8 in	7/8 in	Silver	Boron Hardened Steel	2 3/8"	1 3/16"	5	Master Lock	10G014	6125KA	**6T407**	—	—	**—**	
5/16 in	2 3/8 in	7/8 in	Silver	Boron Hardened Steel	2 1/8"	1"	5	Master Lock	10G013	6121KALJ-10G013	**6T405**	—	—	**—**	
5/16 in	1 1/8 in	7/8 in	Black	Boron Hardened Steel	2 1/8"	1"	5	Master Lock	10G012	6121KA	**6T404**	—	—	**—**	
5/16 in	2 1/2 in	7/8 in	Black	Boron Hardened Steel	2 1/8"	—	5	Master Lock	10G202	6121KALJ-10G202	**3JZG5**	—	—	**—**	
3/8 in	2 3/8 in	7/8 in	Silver	Boron Hardened Steel	2 3/8"	1 3/16"	5	Master Lock	—	—	**—**	—	6125	**6T406**	
5/16 in	1 1/8 in	7/8 in	Silver	Boron Hardened Steel	2 1/8"	1"	5	Master Lock	—	—	**—**	—	6121	**6T403**	*
High-Security WeatherTough™ Laminated Steel, BumpStop®															
7/16 in	1 3/8 in	7/8 in	Black	Boron Hardened Steel	2 5/8"	1 5/16"	5	Master Lock	10G015	6127NKA	**4EZG1**	10G015	6127N	**4EZF9**	
3/8 in	1 3/8 in	7/8 in	Black	Boron Hardened Steel	2 3/8"	1 3/16"	5	Master Lock	10G001	6125NKA	**4EZG3**	—	6125N	**4EZG2**	
5/16 in	1 1/8 in	7/8 in	Black	Boron Hardened Steel	2 1/8"	1"	5	Master Lock	10G020	6121NKA	**4EZG5**	—	6121N	**4EZG4**	
5/16 in	2 1/2 in	7/8 in	Black	Boron Hardened Steel	2 1/8"	1"	5	Master Lock	10G024	6121NKALJ	**4EZG6**	—	—	**—**	
Standard-Security GA Laminated Steel															
3/8 in	7/8 in	13/16 in	Black	Hardened Steel	1 3/4"	1"	4	GA	—	—	**—**	—	1XRU7	**1XRU7**	
Standard-Security Thermoplastic-Coated Laminated Steel															
3/8 in	3/4 in	1/2 in	Blue	Hardened Steel	1 9/16"	1"	4	Master Lock	3210	312KA	**6MCP7**	—	312D	**6MCP5**	
3/8 in	2 in	1/2 in	Blue	Hardened Steel	1 9/16"	1"	4	Master Lock	3210	312KALH	**6MCP8**	—	312DLH	**6MCP6**	

** For additional colors, go to Grainger.com®.*

Solid Steel Padlocks

All solid steel padlocks have 5-pin tumblers and include 2 keys. Master Lock® and American Lock® padlocks feature rekeyable Pro Series® cylinders with special spool pin tumblers that are virtually impossible to pick. Nos. 1JAD5 and 1JAD7 have a round body to provide additional cut, saw, and hammer resistance.

GA GRAINGER APPROVED

Shrouded—Provide superior resistance to cutting by minimizing shackle exposure. GA padlocks are key retaining and have stainless steel bodies to provide enhanced corrosion resistance.

BumpStop®—Stops the transfer of force from the bump key to the pins, preventing rotation of the cylinder so the padlock remains locked.


No. 1XRV5


No. 4YH33


No. 4YH35


No. 1JAD5

Shackle Dia.	Shackle Height	Shackle Width	Shackle Material	Body Height	Body Dia.	Body Width	Body Thickness	Brand	ALIKE Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.	DIFFERENT Opens with Key No.	DIFFERENT Mfr. Model	DIFFERENT Item No.
Shrouded Solid Steel														
1/4"	3/8"	1 1/8"	Hardened Steel	2 1/8"	2"	1 1/2"	5/8"	Grainger Approved	—	—	—	—	1XRV5	**1XRV5**
5/16"	1 3/16"	29/32"	Boron Hardened Steel	—	—	1 3/4"	1"	Master Lock	11G304	7045KA	**4YH34**	—	7045	**4YH33**
Solid Steel BumpStop® Advanced Cylinder Technology														
5/16"	1 3/16"	29/32"	Boron Hardened Steel	—	—	1 3/4"	2 1/2"	Master Lock	11G302	7040NKA	**4EZJ5**	—	—	—
3/8"	1 1/2"	29/32"	Boron Hardened Steel	—	2 1/2"	2"	1"	Master Lock	11G305	7050NKA	**4EZJ4**	—	—	—
7/16"	1 1/8"	7/8"	Boron Hardened Steel	—	2 1/2"	2 1/2"	1"	Master Lock	—	—	—	10G050	6230N	**4EZJ1**
Solid Steel														
5/16"	1 3/16"	29/32"	Boron Hardened Steel	—	—	1 3/4"	1"	Master Lock	11G302	7040KA	**4YH32**	—	—	—
5/16"	1 3/16"	29/32"	Boron Hardened Steel	1 3/4"	—	1 3/4"	2 1/2"	Master Lock	—	—	—	10G932	7040	**3HWD4**
5/16"	2"	3/4"	Boron Hardened Steel	—	—	1 3/4"	7/8"	American Lock	15546	A7201KA	**4EZK7**	—	—	—
5/16"	3"	3/4"	Boron Hardened Steel	—	—	1 3/4"	7/8"	American Lock	15546	A7202KA	**4EZL2**	—	—	—
3/8"	1 1/8"	3/4"	Boron Hardened Steel	2"	2"	2"	3/4"	American Lock	56332	A5260KA	**3HWH5**	56332	A5260	**3HWH4**
3/8"	1 1/2"	29/32"	Boron Hardened Steel	—	—	2"	1"	Master Lock	11G305	7050KA	**4YH36**	—	7050	**4YH35**
3/8"	2"	3/4"	Boron Hardened Steel	2"	2"	2"	3/4"	American Lock	41635	A5261KA	**3HWH7**	41635	A5261	**3HWH6**
7/16"	1 1/16"	15/16"	Boron Hardened Steel	—	2 1/2"	2 1/2"	1 1/8"	American Lock	27234	A700KA	**1JAD7**	27234	A700	**1JAD5**
7/16"	1 1/8"	7/8"	Boron Hardened Steel	—	2 1/2"	2 1/2"	1"	Master Lock	10G019	6230KA	**6T417**	—	—	—
7/16"	2"	15/16"	Boron Hardened Steel	2"	2 1/2"	2 1/2"	1 1/8"	American Lock	27334	A701KA	**4EZP3**	—	A701D	**4EZP2**

Disc Padlocks

Resist hammer blows and have reduced shackle exposure to prevent cutting.

Dimple Key Diskus®—The highest security with an 8-pin cylinder to remove lock picking.

All-Weather Diskus®—Stainless steel body, shackle, and locking mechanism provides maximum corrosion resistance. Cylinder cover helps keep moisture and debris out of the lock cylinder.

High-Security Diskus®—Solid metal core, hardened steel shackle, and an antidrill feature for increased resistance to attacks.

ABUS Security Tech Germany

Economy Disc Padlocks—Keyed alike with a random key assignment.

Hasps—Specially designed with a hardened steel loop to make lock more resistant to cutting. Stainless steel material.


All-Weather Diskus® No. 3TMN7

Shackle Dia.	Shackle Height	Shackle Width	Shackle Material	Body Dia.	Body Thickness	Brand	ALIKE Opens with Key No.	ALIKE Mfr. Model	ALIKE Item No.		DIFFERENT Opens with Key No.	DIFFERENT Item No.
Dimple Key Diskus®												
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	7341	25EC/70 KA	**3TMJ6**		—	—
All-Weather Diskus®												
3/8"	1 1/16"	3/4"	Stainless Steel	2 3/4"	1 3/16"	ABUS	113	24IB/70 KA	**3TMN8**		—	**3TMN7**
3/8"	1 1/16"	3/4"	Stainless Steel	2 3/4"	1 3/16"	ABUS	123	24IB/70 KA	**3TMN9**		—	—
3/8"	1 1/16"	3/4"	Stainless Steel	2 3/4"	1 3/16"	ABUS	198	24IB/70 KA	**3TMP1**		—	—
5/16"	1/2"	1 1/16"	Stainless Steel	2 3/8"	1"	ABUS	113	24IB/60 KA	**3TMN6**		—	**3TMN5**
1/4"	3/8"	1/2"	Stainless Steel	2"	1"	ABUS	113	24IB/50 KA	**3TMN4**		—	**3TMN3**
3/8"	1 1/16"	3/4"	Stainless Steel	2 3/4"	1 3/16"	ABUS	—	24IB/70 KAx2	**3XVY5**	*	—	—
High-Security Diskus®												
15/32"	5/8"	1"	Hardened Steel	3 3/4"	1 1/4"	ABUS	131	26/90 KA	**3TMP9**		—	**3TMP8**
13/32"	1 1/16"	1"	Hardened Steel	3 1/4"	1 1/4"	ABUS	113	26/80 KA	**3TMP7**		—	**3TMP6**
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	113	26/70 KA	**3TMP3**		—	**3TMP2**
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	123	26/70 KA	**3TMP4**		—	—
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	144	26/70 KA	**3TMP5**		—	—
Economy Disc Padlocks												
5/16"	1/2"	1 1/16"	Hardened Steel	2 3/8"	1"	ABUS	28	28/60 KA	**6WNY4**		—	**6WNY5**
3/8"	5/8"	3/4"	Hardened Steel	2 3/4"	7/8"	Master Lock	501	40KAD	**4YH18**		—	**1D560**
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	303	28/70 KA	**5JKP5**		—	**5JKP4**
3/8"	3/4"	3/4"	Hardened Steel	2 3/4"	1 3/16"	ABUS	—	28/70 KAx2	**3XVY6**	*	—	—

Description	Max. Shackle Dia.	Hasp Length	Hasp Width	Hasp Height	Brand	Mfr. Model	Item No.
Diskus Hasps with Shackle Shield							
Double Hinge	7/16"	7 1/2"	2 3/16"	7 1/2"	ABUS	140/190	**3MPJ2**
Straight	7/16"	4 3/4"	2 3/16"	4 3/4"	ABUS	140/120	**3MPJ3**

**** Pkg. of 2.***

Hidden Shackle Padlocks and Hasps

Padlocks—Secure vans, trucks, gates, and vending machines. Hockey puck-style lock design completely surrounds the shackle for high-security pry and cut resistance. Offer superior pick resistance and tens of thousands of key changes. Include 2 brass keys.

Hasps—Shrouded steel hasps protect locks from physical attack. Installation hardware not included. No. 1JAE4 is zinc-plated and allows padlock to remain attached while open for easier use.


No. 48RG86


No. 48RG87

For keyed alike products not listed or master keying, please call 1-800-GRAINGER (472-4643).

Shackle Dia.	Shackle Height	Shackle Width	Color	Body Width	Body Thickness	Body Material	Brand	ALIKE Mfr. Model	ALIKE Item No.	DIFFERENT Mfr. Model	DIFFERENT Item No.
Hidden Shackle Padlocks											
3/8"	1 9/32"	1 23/32"	Silver	2 7/8"	1 1/4"	Zinc	Master Lock	6271KA	**48RG86**	6271	**48RG85**
3/8"	1 9/32"	1 23/32"	Gray	2 7/8"	1 1/4"	Steel	American Lock	A2010KA	**48RG88**	A2010	**48RG87**

H	W	Brand	Mfr. Model	Item No.
Hasps for Hidden Shackle Padlocks				
4 1/2"	8 1/2"	American Lock	A801	**1JAE4**
4 1/2"	9"	Master Lock	770	**4YH37**



No. 3HWJ3



No. 1D573

Master Lock | GA GRAINGER APPROVED | AMERICAN LOCK | ABUS Security Tech Germany

Combination Padlocks

- **Key Override models do not include control keys; order separately this page**

Ideal for storage lockers, combination locks have a reinforced weather-resistant stainless steel outer case and 3-number combination.

Master Lock® High-Security—Boron shackle features dual ball-bearing locking mechanism. Double-armored stainless steel body with fully recessed dial resists knock-off attempts.

GA—Laminated steel, chrome, and stainless steel finished padlocks provide value and security.

Antishim Technology—Master Lock® items feature a unique flat latch technology that blocks shim tools from opening the lock. SmoothSpin™ models feature easy grip-and-turn combination locks with metal bodies and hardened steel shackles. Locks have the same key as traditional combination lock. No. 3HWJ5 uses a combination that is easy to remember and dial; ideal for people with disabilities.

Description	Color	Shackle Dim. Dia.	Shackle Dim. H	Shackle Dim. W	Shackle Material	Body Dim. W	Body Dim. Thickness	Brand	Mfr. Model	Item No.
Combination Padlocks										
High Security Lock with Override Key, Combination Chart	Black/Silver	5/16"	1"	15/16"	Boron Alloy	2 3/16"	15/16"	Master Lock	2010	**1D569**
Combination Padlock	Silver	5/16"	5/8"	7/8"	Hardened Steel	1 3/4"	3/4"	Grainger Approved	—	**1XRW3**
Combination Padlock	Silver	5/16"	3/4"	7/8"	Hardened Steel	2"	7/8"	Grainger Approved	1850DWWG	**1XRW5**
Antishim Technology										
Combination Padlock Medium Security, Key Control	Black/Silver	9/32"	1 1/2"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1525LF	**3HWJ3**
Combination Padlock with Override Key, Combination Chart	Black/Silver	9/32"	2"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1525LH	**3HWJ4**
Combination Padlock	Black/Silver	9/32"	2"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1500LH	**3HWJ2**
Combination Padlock High Security, No Key Control	Black/Silver	9/32"	1 1/2"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1500LF	**3HWJ1**
Combination Padlock	Silver	9/32"	3/4"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1500DWWG	**6X694**
2-Pack, Same Combination	Black/Silver	9/32"	3/4"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1500T	**4EZN5**
Combination Padlock	Black/Silver	9/32"	3/4"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1525	**1D573**
Combination Padlock with Key Override	Black/Silver	9/32"	3/4"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1525 Custom Key	**4T103**
Combination Padlock with Easy Combination	Black/Silver	9/32"	3/4"	13/16"	Hardened Steel	1 7/8"	3/4"	Master Lock	1525EZRC	**3HWJ5**
Combination Padlock with Override Key, Key Sold Separately	Blue	9/32"	3/4"	13/16"	Boron Alloy	1 7/8"	3/4"	American Lock	A400K	**4EZL9**

Control Keys			
Control Key for Mfr. No. 2010	Master Lock	2010K-V70	**4B365**
Control Key for Mfr. No. 1525, 2076BLU, 2076RED, 1525LF, 1525LH, 1525EZRC	Master Lock	1525K-V660	**4B366**
Control Key for No. 1525 Series	Master Lock	K1525	**5T117**
Control Key for No. Mfr. No. A400K	American Lock	A400KEY	**4EZN1**
Control Key for No. Mfr. No. 78/50 KC	ABUS	78/50 Override Key	**5JKU8**



No. 5JKW7



No. 14Z331



No. 4HY70



Resettable Combination Padlocks



No. 5JKU4

Master Lock | ABUS Security Tech Germany | GA GRAINGER APPROVED | CCL Security Products

Resettable Combination Padlocks

- **Key Override No. 4HY70 does not include control key; order separately this page**

Set-your-own combination convenience provides thousands of combinations. Brass models include standard, extra-length, and shrouded-shackle options.

Description	Shackle Dim. Dia.	Shackle Dim. H	Shackle Dim. W	Shackle Material	Body Dim. W	Body Dim. Thickness	Brand	Mfr. Model	Item No.
Resettable Combination Padlocks									
Pro Series® Stainless Steel Body	5/16"	1 1/16"	1"	Stainless Steel	2 1/4"	15/16"	Master Lock	1174	**5JKW7**
Pro Series® Die Cast Body	3/8"	1 1/16"	15/16"	Boron Carbide	2 1/4"	1 1/4"	Master Lock	1178D	**6MCR2**
Pro Series® Brass Body	3/8"	1 1/16"	15/16"	Boron Carbide	2 1/4"	1 1/4"	Master Lock	1175D	**6MCR0**
Pro Series® Brass Body	3/8"	2 1/16"	15/16"	Boron Carbide	2 1/4"	1 1/4"	Master Lock	1175DLH	**6MCR1**
Hardened Steel	1/4"	7/8"	15/16"	Hardened Steel	1 1/2"	1 1/16"	ABUS	160/40	**14Z331**
Hardened Steel	5/16"	2"	1 1/8"	Hardened Steel	2"	3/4"	ABUS	160HB/50-50	**14Z332**
Black Zinc Body with Key Override	1/4"	1"	3/4"	Hardened Steel	1 3/4"	3/4"	ABUS	158KC	**14J899**
Brass Body	5/16"	1"	1"	Stainless Steel	2"	1"	ABUS	180IB/50	**14J895**
Brass Body	5/16"	2 1/2"	1"	Stainless Steel	2"	1"	ABUS	180IBHB/50	**14J896**
Brass Body with Key Override	5/16"	1"	1"	Hardened Steel	2"	15/16"	Master Lock	176	**4HY70**
Brass Body	5/16"	1"	1"	Hardened Steel	2"	15/16"	Master Lock	175	**1U172**
Die Cast Body	5/16"	1"	1"	Hardened Steel	2"	1"	Master Lock	178D	**6JD54**
Brass Body	5/16"	2 1/4"	1"	Stainless Steel	2"	15/16"	Master Lock	175LHSS	**5JKW8**
Brass Body	5/16"	2 1/4"	1"	Hardened Steel	2"	15/16"	Master Lock	175LH	**1U173**
Laminated Steel Body	1/4"	1"	3/4"	Hardened Steel	1 9/16"	7/8"	Grainger Approved	1501DWWG	**1XRV2**
Black/Silver Aluminum Body	1/4"	7/8"	1"	Nickel Plated Steel	1 9/16"	9/16"	Master Lock	643D	**6MCR4**
Black/Silver Steel Body	21/64"	1"	—	Chrome Plated Hardened Steel	1 13/16"	63/64"	CCL	436L	**36JH48**
Silver Steel Body	5/16"	2 1/4"	1"	Hardened Steel	2"	—	Master Lock	179LH	**33RL35**
Brass Body	3/8"	1 1/16"	15/16"	Boron Carbide	2 1/4"	1 1/4"	Master Lock	1177	**38W807**
Gold/Silver Brass Body	5/16"	1"	1"	Hardened Steel	2"	—	Master Lock	975DCOM	**33RL40**
Gold/Silver Brass Body	5/16"	2"	1"	Hardened Steel	2"	—	Master Lock	975DLHCOM	**33RL41**
Aluminum Body	1/4"	1"	7/8"	Steel	1 5/8"	5/8"	ABUS	145/40 Red	**5JKU4**
Control Keys									
Control Key for No. 4HY70	—	—	—	—	—	—	Master Lock	K176CR P569	**4HY71**
Control Key for No. 14J899	—	—	—	—	—	—	ABUS	158 KC KEY ONLY	**16P022**

GA GRAINGER APPROVED Master Lock CCL Security Products

Briefcase and Luggage Combination Padlocks

- All locks are resettable

Laminated Steel—Bottom dial, 3-digit combination.

Password Plus™—Uses letters, numbers, and symbols for custom passwords. Round dial, 5-position combination.

TSA-Accepted—Allow TSA screeners to inspect and relock baggage without damaging the lock. Side window for viewing combination. 3-digit combination. Nos. 6NVL9 and 6NVN0 have a resettable Search Alert® feature that notifies you if the lock has been opened.

Solid Brass—Side dial, 4-digit combination.

Compact Zinc Alloy—Black body, 3-digit combination.

Shackle Dim. Dia.	H	W	Body Width W	Body Thickness Thickness	Color	Brand	Mfr. Model	Item No.	
Laminated Steel Resettable Combination Padlocks									
1/4 in	1 in	3/4 in	1 9/16"	7/8"	Silver	GA	1501DWWG	**1XRV2**	
Password Plus™									
1/4 in	1 1/8 in	1 3/8 in	2 1/2 in	1 in	Black/Silver	Master Lock	1534DBLK	**2RUF9**	
TSA-Accepted, Steel									
1/8 in	3/4 in	1/2 in	1 3/16"	1 1/16"	Silver	Master Lock	4687DNKL	**2RUF8**	
1/8 in	1 1/2 in	5/8 in	1 1/8 in	1/2 in	Blue	Master Lock	4688DBLU	**38W808**	
1/8 in	3/4 in	5/8 in	1 1/8"	5/8"	Black	Master Lock	4680DBLK	**38W809**	
1/8 in	3/4 in	5/8 in	1 1/8 in	5/8 in	Silver	Master Lock	4680DNKL	**38W810**	
Aluminum									
3/16 in	1 in	9/16 in	1 3/16 in	1/2 in	Silver	Master Lock	630D	**6MCR3**	
TSA-Accepted, Die Cast Zinc									
1/8 in	27/32 in	23/64 in	1 1/8"	33/64"	Black	Sesamee	74703	**6NVL9**	
1/8 in	27/32 in	23/64 in	1 1/8"	33/64"	Silver	Sesamee	74706	**6NVN0**	
Solid Brass									
3/16 in	3/4 in	7/8 in	1 3/16 in	3/8 in	Bronze	GA	1XRW6	**1XRW6**	
Brass									
3/16 in	15/16 in	9/16 in	1 3/16 in	1/2 in	Black/Silver	Master Lock	647D	**4FG16**	
1/8 in	7/8 in	3/8 in	1 3/16 in	3/8 in	Black/Silver	Master Lock	646T	**4FG15**	*
1/8 in	7/8 in	3/8 in	1 3/16 in	3/8 in	Black/Silver	Master Lock	646D	**4FG14**	

**** Twin pack of lock No. 4FG15.***



Resettable Combination Padlocks



Password Plus™



TSA-Accepted Steel



TSA-Accepted Zinc Die Cast



Solid Brass



Brass with Black Finish

Master Lock ABUS Security Tech Germany

U-Lock, Chain, and Cable Locks

Python™ Adjustable Locking Cables—Patented lock holds cable at any position. Protects portable and construction equipment, trailers, generators, power tools, and ladders. Rust-resistant lock body with bumper.

Cable Locks—Braided steel wires are vinyl coated. Nos. 6JD77, 6JD76, and 6JD75 have integrated locks for added convenience.

Security Cable—Durable braided steel wire cable offers superior strength and flexibility. Looped ends allow use with U-locks or padlocks. Vinyl coated.

U-Lock—Lock has double-locking hardened steel removable shackles and heavy-duty cable and chain. 7-pin tubular cylinders. Vinyl coating helps prevent scratching and is weather-resistant.

Description	L	Key Type	Brand	Mfr. Model	Item No.
Python™ Adjustable Locking Cables					
Integrated Lock and Cable	5 ft.	Different	Master Lock	8413DPF	**3NY54**
	6 ft.	Alike	Master Lock	8413KA	**3UU68**
Cable Locks					
Integrated Lock and Cable	6 ft.	Different	Master Lock	8154DPF	**6JD76**
Integrated Resettable Lock and Cable	5 ft.	Combination	Master Lock	8119DPF	**6JD75**
Cable and Covered Lock	6 ft.	Different	Master Lock	613DAT	**6JD68**
Integrated Lock and Cable, Pkg. of 3	6 ft.	Alike	Master Lock	8127TRI	**4EZN6**
Steel Locking Cable	6 ft.	Different	ABUS	210/185 KD	**19YM73**
	6 ft.	Different	ABUS	210/185 COMBO	**19YM75**
Security Cables					
Security Cable, 3/8" Chain dia.	6 ft.	None	Master Lock	78DPF	**6JD72**
Self Coiling, 1/4" Chain dia.	6 ft.	None	Master Lock	65D	**38W814**
Self Coiling, 3/8" Chain dia.	15 ft.	None	Master Lock	72DPF	**38W815**

Dia.	H	Shackle Width	Shackle Thickness	Key Type	Brand	Mfr. Model	Item No.
U-Lock							
1/2"	2"	1 5/8"	1 5/8"	Different	Master Lock	8118DPF	**6JD74**



No. 3NY54



No. 6JD75



No. 6JD74

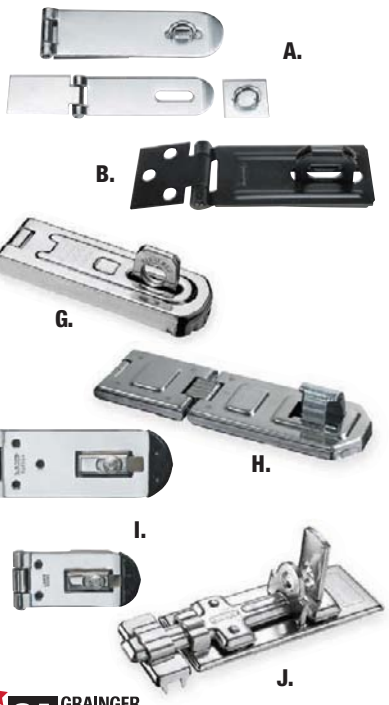

No. 3MPK4

High-Security File Cabinet Bars

ABUS Security Tech Germany

File cabinet bar features a silver powder-coated finish and a built-in spring-loaded hinge. The bar accepts shackles up to 5/16" dia. All mounting hardware is included.

L (in.)	Item No.
12	3MPK3
22½	3MPK4
34½	3PCC9
46	3PCD1
56¾	3PCD2

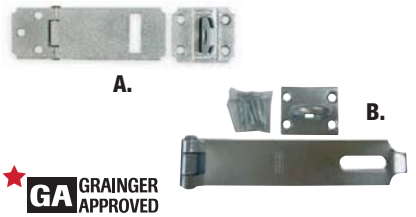

A.
B.
G.
H.
I.
J.

GA GRAINGER APPROVED

Fixed Staple Hasps

For flush-closing doors, gates, and cabinets.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
Eye Hasp					
B	Galvanized Steel	2½"	1½"	5/16"	**1RBG6**
Fixed Eye Hasp					
D	Black Powder Coated	3¼"	1½"	7/16"	**1RBG3**
Fixed Staple Hasp					
A	Bright Stainless Steel	3½"	1½"	13/64"	**3TJN1**
A	Bright Stainless Steel	4½"	1½"	13/64"	**3TJN3**
A	Bright Stainless Steel	6"	2"	13/64"	**3TJN6**
C	Zinc	2½"	1¼"	9/32"	**3HUJ8**
C	Zinc	2"	3/16"	9/16"	**14Z366**
C	Zinc	3½"	1¼"	11/32"	**3HUJ9**
E	Brass	2½"	1½"	9/32"	**4PE29**
F	Steel	3"	1⅛"	5/16"	**3MPJ5**
F	Galvanized Steel	3¾"	1½"	½"	**3MPJ6**
F	Steel	4½"	1¾"	½"	**4T101**
F	Steel	4½"	1⅞"	½"	**3MPJ7**
F	Steel	5¼"	1⅞"	½"	**3MPJ8**
F	Steel	6"	1¾"	½"	**3MPJ4**
G	Chrome	2 5/16"	¾"	¼"	**3MPH2**
G	Chrome	3⅛"	1"	5/16"	**3MPH3**
H	Stainless Steel	7½"	2 3/16"	7/16"	**3MPJ2**
H	Stainless Steel	4¾"	2 3/16"	7/16"	**3MPJ3**
I	Bright Stainless Steel	2 1/64"	7/8"	—	**3TJN9**
I	Bright Stainless Steel	2 19/32"	61/64"	—	**3TJP1**
I	Bright Stainless Steel	2 53/64"	1 3/64"	—	**3TJP2**
J	Chrome	4"	1½"	5/16"	**3MPJ9**
J	Chrome	4¾"	1 3/16"	7/16"	**3MPK1**
—	Zinc	⅞"	1½"	11/32"	**1RBH7**
—	Zinc	1⅜"	1½"	13/32"	**1RBJ1**
—	Zinc	1½"	1"	½"	**3HUK1**
F	Zinc	2½"	1½"	¼"	**4PE30**
F	Zinc	3½"	1½"	⅜"	**4PE44**
F	Zinc	4½"	1½"	⅜"	**4PE45**
Fixed Staple Replacement Eye					
—	Zinc	1"	1½"	11/32"	**4PE47**

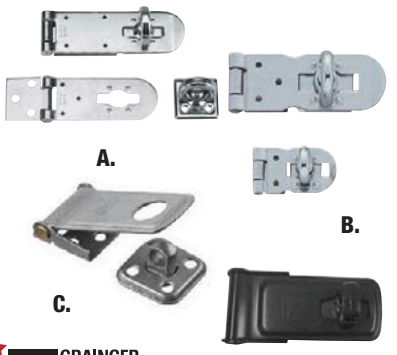

A.
B.

GA GRAINGER APPROVED

Adjustable Staple Hasps

Ideal for doors that are warping or sagging.

Key	Hasp Finish	L	W	Max. Shackle Dia.	Item No.
A	Galvanized Steel	3½"	1½"	7/16"	**1RBG7**
A	Galvanized Steel	4½"	1½"	7/16"	**1RBG8**
B	Zinc	3½"	1½"	7/16"	**4PE39**
B	Zinc	4½"	1½"	7/16"	**4PE41**
B	Zinc	6"	1½"	7/16"	**4PE43**
B	Steel	3½"	1½"	7/16"	**4PE34**
B	Steel	4½"	1½"	7/16"	**4PE35**
B	Steel	6"	1½"	7/16"	**4PE37**

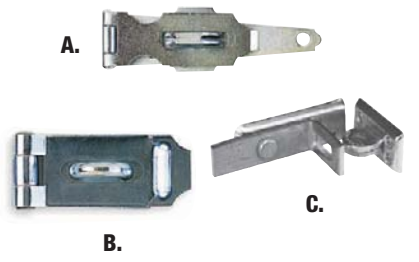

A.
B.
C.
G.

GA GRAINGER APPROVED

Rotating Eye Hasps

Prevent twisting of eye with pry bars.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
Rotating Eye Hasps					
A	Bright Stainless Steel	3½"	1½"	19/64"	**3TJN2**
A	Bright Stainless Steel	4½"	1½"	19/64"	**3TJN4**
A	Bright Stainless Steel	6"	2"	19/64"	**3TJN7**
B	Bright Stainless Steel	1 37/64"	⅞"	11/64"	**3TJL8**
B	Bright Stainless Steel	1 31/32"	⅞"	1/64"	**3TJL9**
B	Bright Stainless Steel	2 61/64"	1 1/16"	7/32"	**3TJN8**
B	Bright Stainless Steel	2 9/16"	1 5/16"	13/64"	**3TJN5**
B	Bright Stainless Steel	3 15/16"	1 25/64"	5/16"	**3TJL6**
B	Bright Stainless Steel	4 23/32"	1 37/64"	5/16"	**3TJL7**
D	Galvanized Steel	4½"	1½"	⅜"	**1RBP2**
D	Galvanized Steel	6"	1½"	½"	**1RBH1**
E	Zinc	3½"	1½"	⅜"	**4PE31**
E	Zinc	4½"	1½"	⅜"	**4PE32**
E	Zinc	6"	1½"	½"	**4PE33**
F	Zinc	6"	1½"	⅜"	**1RBN6**
Fixed Eye Hasps					
F	Steel	6"	2 15/16"	9/16"	**6X700**
Rotating Eye Hasps					
G	Black Powder Coated	3½"	1½"	⅜"	**1RBP3**
Fixed Eye Hasps					
C	Zinc	1¾"	¾"	5/16"	**1RBG1**
E	Brass	1¾"	¾"	5/16"	**1RBF6**
E	Brass	3¼"	1½"	7/16"	**1RBF8**


A.
B.
C.

Corner Hasps

GA GRAINGER APPROVED

For applications with an inside or outside 90° corner.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
A	Zinc	3"	1½"	7/16"	**1RBK3**
A	Zinc	4½"	1½"	7/16"	**1RBK6**
B	Galvanized Steel	7½"	1¾"	13/16"	**1RBH4**
B	Zinc	7½"	1¾"	13/16"	**4PE48**
B	Steel	7¼"	1½"	13/16"	**1RBG5**
C	Zinc	4¾"	1¼"	7/16"	**3HUJ7**


A.
B.
D.
E.

GA GRAINGER APPROVED

Multihinged Hasps

For use around curves, angles, and where doors do not close flush.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
A	Chrome	4 7/8 in	1 in	5/16 in	**3MPH4**
A	Chrome	5⅞ in	1⅜ in	⅜ in	**3MPH5**
B	Chrome	7⅝ in	1¾ in	½ in	**3MPH6**
B	Chrome	9 in	1¾ in	½ in	**3MPH7**
D	Zinc	3 in	1 ½ in	7/16 in	**4PE46**
D	Zinc	4 ½ in	1 ½ in	7/16 in	**1RBP7**
E	Bright Zinc	6 ¼ in	½ in	7/16 in	**4FG17**
E	Bright Zinc	7 ¾ in	1 1/16 in	7/16 in	**4FG19**


A.
B.

GA GRAINGER APPROVED

Locking Hasps

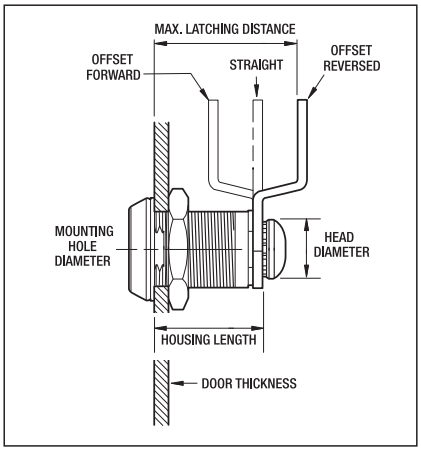
Locking mechanism is available in combination or key lock styles.

Key	Finish	L	W	Item No.	
Combination Hasp					
A	Zinc	6"	1½"	**1RBP5**	
Key Lock Hasps					
B	Zinc	3½"	1½"	**1RBJ9**	*
B	Chrome	4½"	1⅝"	**4PE49**	*

Keyed different.



D. No. 1XRX3 Straight Cam Cabinet



Key	Mounting Hole Dia. (in.)	For Door Thickness (in.)	Max. Latching Distance (in.)	Key Type	Key No.	CHROME FINISH Item No.
Tubular Key Cam Locks						
A	3/4	13/64	3/4	Different	—	**1XRY8**
A	3/4	13/64	3/4	Alike	T0001	**1XRZ4**
A	3/4	7/16	15/16	Alike	T0001	**1XRZ5**
A	3/4	5/8	1 3/16	Different	—	**1XRZ1**
A	3/4	5/8	1 3/16	Alike	T0001	**1XRZ6**
A	3/4	29/32	1 29/64	Alike	T0001	**1XRZ7**
A	3/4	1 9/64	1 11/16	Different	—	**1XRZ3**
A	3/4	1 9/64	1 11/16	Alike	T0001	**1XRZ8**

Key	Mounting Hole Dia. (in.)	For Door Thickness (in.)	Max. Latching Distance (in.)	Key Type	▶CHOOSE: Key Number	STAINLESS STEEL FINISH Item No.	BLACK POWDER-COATEDED FINISH Item No.
Disc Tumbler Cam Locks							
B	3/4	9/32	1	Different		**1XTE9**	—
B	3/4	9/32	1	Alike	C413A	**D2955**	—
B	3/4	9/32	1	Alike	C346A	**D2955**	**D2962**
B	3/4	17/32	1 1/4	Different		**1XTF1**	—
B	3/4	17/32	1 1/4	Alike	C413A, C346A	**D2956**	—
B	3/4	25/32	1 1/2	Different		**1XTF2**	**1XTF8**
B	3/4	25/32	1 1/2	Alike	C413A, C415A	**D2957**	**D2964**
B	3/4	25/32	1 3/8	Alike	C346A	**D2957**	—
B	3/4	1 1/32	1 3/4	Different		**1XTF3**	—
B	3/4	1 1/32	1 3/4	Alike	C413A, C346A	**D2958**	**D2965**
B	3/4	1 1/32	1 3/4	Alike	C415A	**D2958**	—
B	3/4	1 9/32	2	Different		**1XTF4**	—
B	3/4	1 9/32	2	Alike	C413A, C415A	**D2959**	**D2966**
B	3/4	1 9/32	2	Alike	C346A	**D2959**	—
B	3/4	1 17/32	2 1/4	Different		**1XTF5**	**1XTG2**
B	3/4	1 17/32	2 1/4	Alike	C413A	**D2961**	—
B	3/4	1 17/32	2 1/4	Alike	C346A	**D2961**	**D2967**
B	3/4	9/32	1	Alike	C415A	—	**D2962**
B	3/4	17/32	1 1/4	Alike	C415A	—	**D2963**
B	3/4	25/32	1 1/2	Alike	C346A	—	**D2964**
B	3/4	1 17/32	2 1/4	Alike	C415A	—	**D2967**

Cam Locks

- Keyed different - multiple key codes provided in a nonmaster key system
- Keyed alike - all lock cores are the same key code

A. TUBULAR

Tubular key design makes it more difficult to pick lock or duplicate keys. Use a 7-pin tumbler lock, 90° and 180° unlock radius. Include flat and offset cam. For vending, medical cabinets, HVAC, and other applications.

B. DISC

5-disc lock cylinder includes straight cam and offset reversible cam, 2 keys, and washer and mounting nut. For use on cabinets and access panels.

C. MINI

Have a smaller, ½"-dia. mounting hole. Use for standard key or hand actuated locking.

D. STRAIGHT CAM CABINET

Surface-mount units lock doors and drawers.

Key	Mounting Hole Dia. (in.)	For Door Thickness (in.)	Max. Latching Distance (in.)	Key Type	Key No.	CHROME-FINISH Item No.	BLACK POWDER COATED FINISH Item No.
Mini Cam Locks							
C	31/64	19/64	53/64	Alike	MO1	**1XRY4**	**1XRY5**

Key	Mounting Hole Dia. (in.)	For Door Thickness (in.)	Max. Latching Distance (in.)	Key Type	Key No.	CHROME FINISH Item No.	BRASS FINISH Item No.
Keyed Alike Drawer Dead Bolts							
D	7/8	7/8	7/8	Alike	CH751	**1XRX3**	—
D	7/8	1 1/8	1 1/8	Alike	CH751	**1XRX4**	—
D	7/8	1 3/8	1 3/8	Alike	CH751	**1XRX5**	**1XRX8**
D	3/4	7/8	7/8	Alike	CH751	**1XRX9**	**1XRY2**
D	3/4	1 1/4	1 1/4	Alike	CH751	**1XRY1**	**1XRY3**

Cam Locks

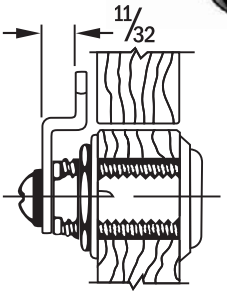
CompX NATIONAL

For drawers, right hand and left hand doors with lipped/overlay construction (straight cam) or flush construction (formed cam). For overlay application, the combined thickness of front and frame cannot exceed the cylinder length. Also see Flush detail at right. 90° cam operation.

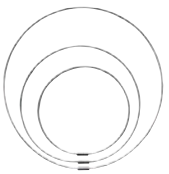
Mounting Hole Dia. (in.)	For Door Thickness (in.)	Max. Latching Distance (in.)	Key Type	BRIGHT BRASS FINISH ▶CHOOSE: Key Number	BRIGHT BRASS FINISH Item No.	BRIGHT NICKEL FINISH ▶CHOOSE: Key Number	BRIGHT NICKEL FINISH Item No.
3/4	1/8	7/16, 25/32	Different	—	**5EKR5**	—	**5EKP5**
3/4	1/8	7/16, 25/32	Alike	C413A, C415A	**D3729**	C346A, C390A, C413A, C415A, C642A, C205A	**D3736**
3/4	1/8	7/16, 25/32	Different, Master	—	—	4TYH5	**5EKR4**
3/4	15/64	5/8, 31/32	Different	—	—	—	**5EKR9**
3/4	15/64	5/8, 31/32	Alike	C415A	**D3731**	C346A, C390A, C413A, C415A, C420A	**D3737**
3/4	15/64	5/8, 31/32	Different, Master	—	—	4TYH5	**5EKT8**
3/4	5/8	15/16, 9/32	Different	—	**5EKX1**	—	**5EKW1**
3/4	5/8	15/16, 9/32	Alike	C413A	**D3732**	C346A, C390A, C413A, C415A, C420A, C642A, C205A, C267A	**D3738**
3/4	5/8	15/16, 9/32	Different, Master	—	—	4TYH5	**5EKX0**
3/4	7/8	1 3/16, 1 7/32	Different	—	**5EKV3**	—	**5EKU3**
3/4	7/8	1 3/16, 1 7/32	Alike	C346A, C390A, C415A, C642A	**D3733**	C346A, C390A, C413A, C415A, C420A, C642A, C205A	**D3739**
3/4	7/8	1 3/16, 1 7/32	Different, Master	4TYH5	**5EKW0**	—	**5EKV2**
3/4	1 1/8	1 3/16, 1 7/32	Different	—	**5EKY5**	—	**5EKX5**
3/4	1 1/8	1 7/16, 25/32	Alike	C346A, C413A	**D3734**	C346A, C390A, C413A, C415A, C420A, C642A, C267A	**D3741**
3/4	1 1/8	1 7/16, 25/32	Different, Master	—	—	4TYH5	**5EKY4**
3/4	1 7/16	1 25/32, 27/32	Alike	C346A, C413A, C420A	**D3735**	C346A, C390A, C413A, C415A, C420A, C642A	**D3742**
3/4	1 7/16	1 25/32, 27/32	Different, Master	4TYH5	**5ELC0**	4TYH5	**5ELA2**
3/4	1 7/16	1 25/32, 27/32	Different	—	**5ELA3**	—	**5EKZ3**



No. 5EKP5



FLUSH



Threaded Sleeve



Twist Lock



Socket Lock



Nickel-Plated Beaded Chain No. 2YB23



Nickel-Plated Steel 100 ft. Spool



Snap-On Double Hook



Wrist Coil No. 20KR18



Large C-Clip Carabiner

GA GRAINGER APPROVED

Lucky Line

NITE IZE

Key Ring Clips and Chains

Threaded closure opens and closes with a connector nut. Twist Lock opens into a "figure-8" shape to open and close the ring; a crimper tool closes ring permanently. Socket Lock uses a ball-knob and socket closure to lock ring. Chain on spools can be cut to any length, and couplings connect the chain.

Description	Ring Size	Brand	Item No.	Pkg. Qty.
Carbon Steel with Threaded Sleeve Key Rings				
Silver	6"	GA	**25DU46**	1
Nylon-Coated Twist Lock Key Rings				
Clear	1⅝"	Lucky Line	**3EGL9**	5
Nylon-Coated Socket Lock Key Rings				
Clear	1⅝"	Lucky Line	**3HJV2**	5
Split Ring Key Rings				
1" Ring	1"	GA	**1F098**	25
1¼" Ring	1¼"	GA	**1F099**	25
1½" Ring	1½"	GA	**1F100**	25
Nickel-Plated	2"	Lucky Line	**16D511**	10
Nickel-Plated	3"	Lucky Line	**16D512**	10
Beaded Chain and Couplings				
4½" Nickel Plated	—	GA	**2YB23**	100
4½" Brass Plated	—	GA	**2YB24**	100
6" Brass Plated	—	GA	**2YB25**	100
Nickel Plated Steel, 100 ft. Spool	—	Lucky Line	**16D513**	1
Key Ring Clips				
Snap-On Double Hook	—	GA	**25PA12**	1
Snap-On Carabiner Hook	—	GA	**25PA28**	1
Quick Release Ring	—	GA	**25PA26**	1
Clip-On Belt Hook	—	GA	**25PA32**	1
Bottle Opener w/Ring	—	Lucky Line	**3EGN3**	10
Key Float w/Ball Chain	—	Lucky Line	**3EGN9**	1
Key Rack	1¼"	Nite Ize	**6UKP8**	1
Large C-Clip Carabiner	—	Lucky Line	**15E561**	5
Wrist Coil Key Chain				
Includes 2" Split Ring	—	Lucky Line	**20KR18**	5
Key Ring Clips				
Snap-On Double Hook	—	GA	**25PA12**	1
Snap-On Carabiner Hook	—	GA	**25PA28**	1
Quick Release Ring	—	GA	**25PA26**	1
Clip-On Belt Hook	—	GA	**25PA32**	1
Bottle Opener w/Ring	—	Lucky Line	**3EGN3**	10
Key Float w/Ball Chain	—	Lucky Line	**3EGN9**	1
Key Rack	1¼"	Nite Ize	**6UKP8**	1
Large C-Clip Carabiner	—	Lucky Line	**15E561**	5



No. 35MM56



No. 35MM33

Ilco

Automotive Key Cloning

The Ilco EZ®-Clone PLUS lets you clone Texas Instrument- and Phillips-encrypted code and fixed code transponder keys with simple, quick, 2-button operation. Features multiple language support and 12VDC adapter.

Description	Item No.
Universal Head and Removal Tool	
GTH Transponder Head, Vehicle, Cars, Standard	**35MM56**
Head Removal Tool, Plastic	**35MM57**
EZ-Clone Plus - Transponder Cloning Tool	
Transponder Duplicator, Plastic	**35MM58**

For Use With	Item No.
Key Blanks	
Edge Cut	
Chrysler, EB3-A-Y160	**35MM33**
Ford, EB3-B-H72	**35MM34**
Ford, EB3-C-H73	**35MM35**
Ford, EB3-D-H84	**35MM36**
Toyota, EB3-E-TOY43	**35MM37**
Nissan, EB3-H-NI02	**35MM40**
Mazda, EB3-J-MAZ24	**35MM41**
Mitsubishi, EB3-K-MIT8	**35MM42**
Mitsubishi, EB3-L-MIT9	**35MM43**
Mitsubishi, EB3-M-MIT14	**35MM44**
Subaru, EB3-P-SUB4	**35MM46**
GM, EB3-R-B111	**35MM47**
Chrysler, EB3-T-Y170	**35MM49**
Acura, EB3-U-HD111	**35MM50**
GM, EB3-W-B114R	**35MM52**
GM, EB3-Y-B99	**35MM54**
High Security	
Lexus, EB3-F-TOY48	**35MM38**
Lexus, EB3-G-TOY40	**35MM39**
Subaru, EB3-N-SUB1	**35MM45**
Honda, EB3-S-HO03	**35MM48**
GM, EB3-V-HU100	**35MM51**
GM, EB3-X-GM45	**35MM53**
Sprinter Vans, EB3-Z-HU64	**35MM55**



Nickel-Plated



Brass Finish

Key Blanks

Ilco

Blanks can be used for making replacement keys. All are nickel-plated finish, unless indicated (BR) brass in table.

For replacement keys: Match the Ilco Model Number in the chart to the one on your existing key.

Lock Manufacturer	No. of Pins	Mfr. Model	Item No.	Pkg. Qty.
American®	—	1653-AM4	**2GVK8**	10
American®	5	1045-AM3	**1GAP4**	10
Arrow®	5	1179-AR1	**1GAT3**	10
Arrow®	6	1179A-AR4	**1GAU1**	10
Best®	7	A1114A-BE2	**1GAR5**	10
Best®	—	1A1E1	**12Z007**	50
Best®	—	1A1J1	**12Z010**	50
CCL®	5	S1000V-CO68	**2GVJ4**	10
CCL®	6	1000V-CO26	**3EMP6**	10
Chicago®	5	1041G-CG1	**3EMP4**	10
Chicago®	5	1041T-CG16	**1GAP5**	10
Chicago®	6	101AM-AP1	**1GAP3**	10
Chicago®	6	102AM-AP2	**1GAT2**	10
Chicago®	6	103AM-AP3	**1GAT1**	10
Chicago®	6	104AM-AP4	**1GAR7**	10
Corbin	6	A1001AH-CO91	**3EMP5**	10
Corbin	5	1003M-CO106	**1GAK3**	10
Corbin	6	A1001EH-CO88	**1GAT7**	10
Corbin	6	A1011-L4	**2GVJ2**	10
Dexter®	6	D1098B-DE2	**2GVJ7**	10
ESP	5	1502	**3EMP8**	10
Falcon®	6	A1054WD-FA3	**1GAP6**	10
Fort®	6	L1054G-FR2	**2GVK2**	10
Hayworth	5	1597-HAW1	**3EMP9**	10
Hayworth	5	1598-HAW2	**3EMR1**	10
Hayworth	5	1599-HAW3	**3EMR2**	10
Independent®	5	1043J-IL11	**1GAK9**	10
Independent®	5	L1054B-IN8	**1GAJ8**	10
Kwikset®	5	KW1-BR	**1GAU8** *	50
Kwikset®	5	KW1-NP	**1GAV2**	50
Kwikset®	5	1176-KW1	**1GAJ9**	10
Kwikset®	6	A1176ST-KW10	**1GAJ5**	10
Master® Padlock	5	1092R	**3EMR4**	10
Master® Padlock	6	1092NR-M16	**3EMR5**	10
Master®	—	1092VM-M5	**2GVJ9**	10
Master®	4	1092-M1	**1GAK5**	10
Master®	4	1092B-M2	**1GAU4**	10
Master®	4	1092N-M10	**1GAP8**	10
Master®	4	1092DS-M13	**1GAN4**	10
Master®	4	1092-900-M19	**1GAU3**	10
Master®	4	M1-BR	**1GAV3** *	50
Master®	5	1092-6000-M20	**1GAN8**	10
National®	4	1069L-NA14	**1GAJ6**	10
National®	4	1069G-RO7	**1GAU6**	10
National®	5	1069LB-NA12	**1GAP7**	10
National®	5	1069N-RO3	**1GAK7**	10
Russwin®	5	1011D1-RU45	**3EMR7**	10
Sargent®	5	1007LA	**3EMR8**	10
Sargent®	6	S22	**1GAR8**	10
Schlage®	6	A1145L-SC20	**3EMT1**	10
Schlage®	6	A1145F-SC10	**3EMT3**	10
Schlage®	5	1145-SC1	**1GAJ7**	10
Schlage®	5	SC1-BR	**1GAU9** *	50
Schlage®	5	SC1-NP	**1GAV1**	50
Schlage®	6	1145A-SC4	**1GAK2**	10
Schlage®	6	A1145E-SC9	**1GAR3**	10
Schlage®	5	1145E-SC8	**2GVJ5**	10
Schlage®	5	100-C-NS	**2GVK3**	50
Schlage®	6	A1145E-HANS-ILCO	**2GVK7**	100
Segal®	—	1022-SE1	**2GVJ8**	10
Weiser®	5	1054WB-WR3	**1GAT8**	10
Weiser®	5	N1054WB-WR5	**1GAP9**	10
XL Lock®	5	1180S-XL7	**1GAU5**	10
Yale®	6	998-Y4	**3EMT5**	10
Yale®	5	999-Y1	**1GAP1**	10
Yale®	6	999A-Y2	**1GAR1**	10
Yale®	6	998GA-Y78	**1GAR2**	10
Yale®	4	997X-Y6	**1GAT5**	10
Yale®	5	01122-Y11	**1GAK1**	10
Yale®	5	01122R-Y13	**1GAN6**	10

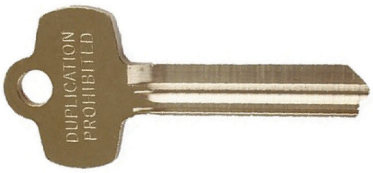
** Brass finish.*

BEST

Standard-Type Key Blanks

The authentic standard BEST® key blank is used for the key-cutting of operating, control, master, sub-master, and grand-master keys for any SFIC 5-, 6-, or 7-pin master keying system. Nickel silver. Comes in pkg. qty. of 1.

Keyway Type	Mfr. Model	Item No.
A	1A1A1KS473KS800	**49H790**
E	1A1E1KS473KS800	**49H794**
F	1A1F1KS473KS800	**49H796**
G	1A1G1KS473KS800	**49H798**
H	1A1H1KS473KS800	**49H801**
J	1A1J1KS473KS800	**49H803**
K	1A1K1KS473KS800	**49H805**
L	1A1L1KS473KS800	**49H807**
TE	1A1TE1KS473KS800	**49H814**



No. 49H790



Flash 008
No. 52HN54

Key blanks available; see page 1964.



Semi-Automatic Key Duplicator
No. 52HN52

Ilco®

Key Duplicators and Code Cutting Machines

- Key Duplicators create new keys by copying existing keys
- Code Cutting Machines create new keys from coded cards when existing keys are not available for duplication
- Key blanks available; see page 1964.

No. 52HN54 Flash 008 Manual Key Duplicator
- Tool steel cutter

Lightweight, space-saving, and economical. Use where occasional duplication is needed.

No. 52HN53 Manual Key Duplicator
- Titanium-nitride-coated cutter

Designed for cutting popular automotive and commercial cylinder keys, including double-sided types. Wide spacing between vise jaws accommodates longer keys. Depth limit device guards against cutter contact with vise jaws. Ideal for counter or mobile use. Circuit breaker protected.

No. 52HN52 Semi-Automatic Key Duplicator
- Titanium-coated milling cutter

For most residential, padlock, automotive, and double-sided key duplication. Particularly useful when multiple duplicates are needed. Semiautomatic design allows for speed and accuracy. Hardened carriage shaft and cutter spindle provide extended service life. ¼-HP motor allows mobile use. Circuit breaker protected.

No. 1GBB2 Bravo III with EZ Jaw Key Duplicator
- Cobalt steel cutter

Accurately and easily duplicates keys in less than 9 sec., once loaded; ideal for rugged, high-volume environments. Semiautomatic operation provides the necessary pressure; operator simply provides guidance.

No. 52HN51 Automatic/Manual Key Duplicator
- Tool steel cutter

A versatile automatic machine that can be used manually when needed, giving operator freedom to select the best key action. Accommodates large bow and long blade keys. Features titanium-coated cutter with permanently lubricated spindle shaft ball bearings. 4-position vise jaws provide secure clamping. Dial-type depth adjustment system simplifies calibration and improves accuracy.

Description	Machine Dim. (in.) H	W	D	HP	Amps AC	Bearing Material	Mfr. Model	Item No.
Key Duplicators								
Mini-Mite Manual	8 45/64	12 13/64	9 1/2	1/32	1.2	Sealed	FLASH 008	**52HN54**
Manual	9 51/64	15 3/4	18 7/64	23/64	2.8	Sealed	SPEED045	**52HN53**
Semi-Automatic	9 51/64	22 51/64	18 7/64	23/64	2.8	Sealed	SPEED 044	**52HN52**
Bravo III with EZ Jaw	9 1/2	18	15	1/4	1.5	Sealed	Bravo III	**1GBB2**
Automatic/Manual	11 51/64	19 13/64	18 7/64	23/64	2.8	Sealed	SPEED 040	**52HN51**
Replacement Key Machine Cutters for Ilco Key Machines								
Mfr. No. 008A	—	—	—	—	—	—	23RF	**2GVH1**
Mfr. No. 040HD, 044HD	—	—	—	—	—	—	P-CU20	**5DJP6**
Mfr. No. 045-110	—	—	—	—	—	—	P-X23MC	**1GBB7**
Mfr. No. 044-110 and 040	—	—	—	—	—	—	CU20	**1GBB6**
For Key Machine No. 1GBB2	—	—	—	—	—	—	CU50A	**1GBB5**
For Key Machine No. 2GVH9	—	—	—	—	—	—	T14MC	**2GVL1**
Replacement Deburring Brushes for Ilco Key Machines								
For Key Machine No. Mfr. No. Bravo III	—	—	—	—	—	—	D925102ZR	**1GBB8**
For Key Machine Nos. Mfr. No. 044-110 & 045-110	—	—	—	—	—	—	814-00-51	**1GBB9**


No. 6YLL8


No. 6YLN9


No. 6YLJ9


No. 6YLL4


No. 6YLL2


No. 1PGP7


No. 1PGP9

Retractable Key Reels, Tethers, and ID Badge Holders

KEY-BAK ★ GA GRAINGER APPROVED

Type	Features	Includes	Extended Length	Fits Belts Up To	Color	Brand	Item No.
ID Card Retractor							
Standard Clip	—	ID Card Swivel Clip	28 1⁹⁄₆₄ in	¾ in	Black	GA	**25DU57**
Standard	Vinyl Strap	—	28 1⁹⁄₆₄ in	¾ in	Black	GA	**25DU48**
Swivel Clip	Vinyl Strap	ID Card Swivel Clip	28 1⁹⁄₆₄ in	¾ in	Black	GA	**25DU56**
MiniBak	—	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	**6YLN6**
MiniBak	—	ID Card Standard Clip	36 in	1 ½ in	Blue	Key-Bak	**6YLN8**
MiniBak	Twist Free	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	**6YLN0**
MiniBak	Twist Free	ID Card Standard Clip	36 in	1 ½ in	Black	Key-Bak	**6YLN1**
MiniBak	Twist Free	ID Card Standard Clip	36 in	1 ½ in	Blue	Key-Bak	**6YLN2**
MiniBak	Vinyl Strap	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	**6YLL6**
MiniBak	Twist Free	ID Card Swivel Clip	36 in	1 ½ in	Black	Key-Bak	**6YLN4**
MiniBak	Twist Free	ID Card Swivel Clip	36 in	1 ½ in	Blue	Key-Bak	**6YLN5**
MiniBak	Vinyl Strap	ID Card Swivel Clip	36 in	1 ½ in	White	Key-Bak	**6YLL8**
Key Reel							
Standard	Theft Protection	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	**6YLK3**
Standard	Theft Protection	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	**6YLK4**
Locking	—	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	**6YLK6**
Stainless Steel Chain	Theft Protection	Key Silencing Hook and Loop Flap	24 in	2 ¼ in	Black	Key-Bak	**6YLJ7**
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	GA	**25DU51**
Self-Retracting	—	HUS-KEY Security Tab, Leather Pouch	24 in	2 ½ in	Chrome	Key-Bak	**12X544**
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	Key-Bak	**1PGR6**
Stainless Steel Chain	Protector Tab	—	24 in	2 ¼ in	Black	Key-Bak	**1TCX6**
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	Key-Bak	**1PGP6**
Kevlar® Cord	Leather Protector-Theft Protection	Key Silencing Hook and Loop Flap	36 in	2 ¼ in	Black	Key-Bak	**6YLK0**
Kevlar® Cord	Nylon Protector- Theft Protection	Key Silencing Hook and Loop Flap	36 in	2 ¼ in	Black	Key-Bak	**6YLK2**
Kevlar® Cord	—	Leather Belt Loop	36 in	2 ¼ in	Black	Key-Bak	**6YLL5**
Super 48 Super Duty Kevlar® Cord	—	Leather Belt Loop	36 in	2 ¼ in	Black	Key-Bak	**6YLL1**
Kevlar® Cord	Tab to Prevent Uniform Damage	Uniform Protection Flap	36 in	2 ¼ in	Black	Key-Bak	**6YLL3**
Nylon Cable	360 Degree Rotating Clip	—	36 in	2 in	Black	Key-Bak	**6YLN9**
—	360 Degree Rotating Clip, Vinyl Strap	—	36 in	2 in	Black	Key-Bak	**6YLP0**
Polyester Cord	Polyester Cord	—	36 in	—	Black	Key-Bak	**6YLP1**
Polyester Cord	Polyester Cord, Vinyle Strap	—	36 in	—	Black	Key-Bak	**6YLP2**
Kevlar® Cord	Leather Protector-Theft Protection	Key Silencing Hook and Loop Flap	48 in	2 ¼ in	Black	Key-Bak	**6YLJ9**
Kevlar® Cord	Nylon Protector- Theft Protection	Key Silencing Hook and Loop Flap	48 in	2 ¼ in	Black	Key-Bak	**6YLK1**
Kevlar® Cord	—	Leather Belt Loop	48 in	2 ¼ in	Black	Key-Bak	**6YLL4**
Super 48 Kevlar® Cord	—	Leather Belt Loop	48 in	2 ¼ in	Black	Key-Bak	**6YLL0**
Kevlar® Cord	Tab to Prevent Uniform Damage	Uniform Protection Flap	48 in	2 ¼ in	Black	Key-Bak	**6YLL2**
Kevlar® Cord	Belt Loop Meets Anti-Snatch Requirements	—	48 in	2 in	Chrome	Key-Bak	**1TCX4**
Kevlar® Cord	Ball Socket	—	48 in	2 ¼ in	Black	Key-Bak	**1TCX2**
Sheathed Steel Cable	48 in Stainless Steel Cable	—	48 in	—	Chrome	GA	**25DU47**
Kevlar® Cord	—	—	48 in	2 in	Silver	Key-Bak	**1TCX3**
Kevlar® Cord	Detachable	—	48 in	2 in	Silver	Key-Bak	**1TCX5**
Kevlar® Cord	Locking Ball and Socket	—	48 in	2 in	Black	Key-Bak	**1PGP7**
Kevlar® Cord	—	—	48 in	—	Black	Key-Bak	**1PGP9**
Key Reel Chain							
Replacement Key Reel Chain	—	—	1,200 in	—	Stainless	Key-Bak	**1TCX9**
Retractable Tether							
Stainless Steel Chain	—	—	24 in	—	Chrome	Key-Bak	**1PGR5**
Stainless Steel Chain	48 in Stainless Steel Cable	—	48 in	—	Chrome	Key-Bak	**1PGP8**


Rock


Magnetic


Sprinkler

Lucky Line ★ GA GRAINGER APPROVED

Key Hiders

Keep an extra key handy in case of lockout or emergency. Rock and sprinkler key hiders can be used on the ground; magnetic hider adheres to most metal surfaces.

Description	Brand	Item No.
Key Rock Hider	Lucky Line Products	**3EGN4**
Magnetic Key Hider	GA	**25PA16**
Sprinkler Key Hider	Lucky Line Products	**3EGN7**


No. 3HJU7


No. 3HJU6


No. 3HJP7


No. 3HJT5

Lucky Line

Message-Protecting Key Rings

Key ring identification tags help protect messages from moisture and smudging.

Description	Color	Item No.	Pkg. Qty.
Open/Close Flap			
Key Tag	Assorted	**3HJU7**	10
Key Tag	Clear	**3HJU8**	10
Holder w/8 Key Tags	Assorted	**3HJU6**	1
Clear Plastic Insert			
Swivel Ring Key Tag	Black	**3HJP7**	50
Swivel Ring Key Tag	Blue	**3HJP8**	50
Water-Resistant			
Key Tag	White	**3HJT5**	25



Shamrock



Oval


Octagonal Blank


Square-Slotted Blank


Key Receipt Slip



Restroom

Key Tags

★ GA GRAINGER APPROVED

Help to identify and organize keys. Shamrock tags are 1¼"H x 1¼"W. Oval tags are 1⅜"H x 1⅛"W. Both Shamrock and Oval tags fit 2-tag key cabinets. Square-Slotted tags are 1⅝"H x 1½"W and fit 2-tag key cabinets with slots.

Description	SHAMROCK Color	SHAMROCK Item No.	OVAL Color	OVAL Item No.	SQUARE-SLOTTED Color	SQUARE-SLOTTED Item No.
Numbered Key Tags						
1 to 40	White	**33J882**	Red	**33J886**	White	**33J890**
1 to 100	White	**33J879**	Red	**33J883**	White	**33J887**
101 to 200	White	**33J880**	Red	**33J884**	White	**33J888**
201 to 300	White	**33J881**	Red	**33J885**	White	**33J889**

Description	Color	Item No.	Pkg. Qty.
Blank Key Tags			
Shamrock, Reusable	White	**33J873**	100
Square-Slotted	White	**2NEU1**	50
Square-Slotted	Assorted	**33J891**	20
Key Receipt Slip	Yellow	**33J871**	100
Square-Slotted	White	**33J870**	50

Description	Color	Item No.	Pkg. Qty.
Restroom Key Tags			
Women	Blue	**33J893**	1
Men	Blue	**33J894**	1
Unisex	Blue	**33J895**	1


No. 2NEU4


No. 2NEU2


No. 2XLC6


No. 2XLC3



No. 4HY63

GA GRAINGER APPROVED

Kidde Master Lock ABUS Security Tech Germany SentrySafe

Key Drop and Key Lock Boxes

Description	Cap.	Color	H	D	W	Mfr. Model	Item No.
GA Key Drop Boxes							
Keyed Alike	—	Gray	7¼"	3⅜"	4⅛"	2NEU4	**2NEU4**
Keyed Different	—	Gray	7¼"	3⅜"	4⅛"	2NEU5	**2NEU5**
GA Key Boxes							
Cam Lock - 40 Keys	—	—	12⅛₆₄"	2¾"	8³⁄₁₆"	33J869	**33J869**
GA Lock Boxes							
Surface Key Box	20 Keys	Gray	4²³⁄₃₂"	2⁹⁄₁₆"	2⁶¹⁄₆₄"	33J855	**33J855**
GA Emergency Lock Boxes							
Emergency Lock Box	—	Red	6½"	2¼"	6¾"	2NEU2	**2NEU2**
GA Emergency Key Box Replacement Acrylices							
Replacement Glass	—	—	4¾"	³⁄₆₄"	3"	2NEU3	**2NEU3**
Kidde Brand Lock Boxes							
Push Button	5 Keys & Access Cards	Black	5¼"	3"	3⅞"	1267	**2XLC6**
Push Button	2 Keys	Titanium	4"	1¾"	2⅜"	1170	**2XLC5**
Push Button	2 Keys	Clay	4"	1¾"	2⅜"	1414	**2XLC4**
Push Button	2 Keys	Silver	4½"	2¼"	2½"	1324	**5KDJ6**
Push Button	5 Keys	Silver	4½"	2¼"	2½"	1015	**5KDJ3**
Push Button	5 Keys	Clay	4½"	2¼"	2½"	1409	**5KDJ4**
Push Button	3 Keys	Titanium	5⅞"	1⅞"	2⅜"	1166	**2XLC2**
Push Button	3 Keys	Clay	5⅞"	1⅞"	2⅜"	1350	**2XLC1**
Combination	3 Keys	Titanium	5⅞"	1⅞"	2⅜"	1012	**2XLC3**
Master Lock Brand Lock Boxes							
Combination	5 Keys	Gray	4½"	1⅜"	3⁷⁄₁₆"	5401D	**4HY63**
Combination, Wall Mount	7 Keys	Silver/Black	4⅝"	2¹⁄₁₆"	3⅛"	5423D	**31MG95**
Combination, Padlock	7 Keys	Silver/Black	4⅝"	2¹⁄₁₆"	3⅛"	5422D	**31MG94**
Master Lock Over-The-Door Portable							
Combination	5 Keys	Gray	6⁵⁄₁₆"	1½"	3⁵⁄₁₆"	5400D	**4HY62**
ABUS Brand Key Boxes							
Resettable Dial	20 Keys or 8 Cards	Silver/Black	7-1/6"	1¾"	3⅜"	797	**6TRV8**
Resettable Dial	20 Keys or 8 Cards	Silver/Black	4¾"	1¾"	3⅛"	787	**6TRV7**
Push Button	20 Keys or 8 Cards	Silver/Black	4¾"	1¾"	3⅛"	777	**6TRV6**
Sentry Safe Key Box							
Privacy Key Lock	25 Keys	Black	9¹³⁄₁₆"	3⁵⁄₁₆"	7⁷⁄₁₆"	KB-25	**29RV64**

GA GRAINGER APPROVED

2-Tag Key Cabinets

Cabinets are made of heavy-duty steel with baked-on powder-coated finish for durability. Each cabinet includes different numbered key tags and lock location charts. Hook-style key tags are numbered consecutively. Each hook holds 1 control key with a red permanent tag and 1 duplicate loaner key with a white reusable tag. In case loaner key is lost, the control key remains in cabinet. An "out key" tag is hung in the same position as the loaned key. Date, key number, and recipient can be recorded on receipt sheet.



Key Cap. (Units)	Overall H (in.)	Overall D (in.)	Overall W (in.)	Item No.
30	12	2½	8	**33J856**
60	17	3⁵⁄₃₂	13⁶³⁄₆₄	**33J857**
80	20	5	16½	**33J858**
120	20	5	16½	**33J859**
240	20	5	16½	**33J860**
500	25¼	5½	18	**33J861**

Key Cabinet

medeco HIGH SECURITY LOCKS ASSA ABLOY

Wall-mount cabinet features touchscreen interface with PIN access; designates keys or keyset which are individually locked in place. Keys are securely attached using special security seals. User has access to key and rights administration. Provides screen based audit trail and reporting capabilities or export via USB port. Features audible alarms and has multilingual functionality. In case of emergency, system can be manual overridden and has door release functions.



Key Cap. (Units)	H	D	W	Item No.
21	16⅞"	3⅝"	9¹¹⁄₁₆"	**45DK66**


Cabinet with Cam Lock
No. 2NET1


No. 2NET3


No. 5KDJ9


Binder
No. 3HJU5


Hanging File
No. 3HJU9

GA GRAINGER APPROVED MMF INDUSTRIES Lucky Line Kidde

Key Cabinets, Binder, and Hanging Files

CABINETS

Help keep track of loaned keys. Come with consecutively numbered, slotted-style, reusable key tags. Nos. 5KDJ7, 5KDJ8, and 5KDJ9 are hook style. Record loaner information (key number, date, and recipient) on the "out key" tags and hang them in the loaned keys area. Wall mount.

BINDER

Vinyl construction with metal-reinforced corners and a zipper to keep binder closed and contents secure. Binder comes with 3 base units, 42 snaps, 42 plastic key tags, and labels to organize up to 42 keys. Snap-in tabs allow keys to be removed and inserted easily.

HANGING FILES

Fit in a standard, letter-size filing cabinet.

Key Cap. (Units)	H	D	W	Brand	Item No.
2-Key Cabinet with Cam Lock					
30	12"	2½"	8"	GA	**2NET1**
48	7¼"	1⅝"	28¾"	GA	**2NET2**
50	28¾"	1⅜"	7¼"	GA	**2NET3**
62	17"	3⁵⁄₃₂"	13⁶³⁄₆₄"	GA	**2NET4**
80	17⅛"	3⅛"	14"	Steelmaster	**9CM41**
120	17"	3¼"	14"	GA	**2NET5**
160	20⅛"	4⅞"	16½"	Steelmaster	**8RHV5**
240	20"	5"	16½"	GA	**2NET6**
330	20"	5"	16½"	GA	**2NET7**
500	25¼"	5½"	18"	GA	**2NET8**
730	25¼"	7"	18"	GA	**2NET9**
36 to 108	15¾"	4"	10¾"	Lucky Line Products	**11U401**
216	19"	4"	15"	Lucky Line Products	**11U402**
2-Key Cabinet with Electronic Digital Lock and Cam Lock					
64	14²¹⁄₆₄"	5³⁄₁₆"	13³⁹⁄₆₄"	GA	**36D051**
1-Key Cabinet with Pushbutton Combination Lock					
30	11¾"	2⅜"	7⅞"	Kidde	**5KDJ7**
60	19½"	4"	13⅜"	Kidde	**5KDJ8**
120	19¼"	4"	13⅜"	Kidde	**5KDJ9**
Key Cabinet with Digital Lock					
200	21²⁷⁄₃₂"	7³⁄₆₄"	16⁵⁹⁄₆₄"	GA	**36D049**
Binder					
42	11"	2"	13¾"	Lucky Line Products	**3HJU5**
Hanging Files					
14	6"	⅜"	12¾"	Lucky Line Products	**3HJU9**



Cash Depository Safe
No. 3EKY9



Floor Safe
No. 6MPK4



Gun Safe
No. 29RV57



High-Security Medical Storage Cabinet
No. 38TJ40



Wall Safe
No. 20VK08

Safes

Lock Style	Cap.	No. of Shelves	Fire Rating	Net Wt.	Outside Dim. H	W	D	Color	Brand	Item No.
Cash Depository Safes										
(3) Locking Bolts	1.03 cu ft	1	Not Rated	79.6 lb	14 in	14 in	20 in	Black	Barska	**45WP97**
	1.72 cu ft	1	Not Rated	94.25 lb	14 in	14 in	27 in	Black	Barska	**45WP98**
Digital Keypad, (2) Deadbolt Lock	0.59 cu ft	1	Not Rated	22.5 lb	13 45/64 in	9 55/64 in	9 55/64 in	Black	Barska	**20VK20**
	0.84 cu ft	0	Not Rated	41.75 lb	16 in	13 3/4 in	13 3/4 in	Black	Barska	**20VK14**
Digital Keypad with Key Backup	2.3 cu ft	1	—	71 lb	19 in	15 21/32 in	15 13/32 in	Black	Barska	**20VK04**
Dual Keyed	0.25 cu ft	0	Not Rated	20 lb	8 1/2 in	6 in	12 3/10 in	Gray	Sentry Safe	**3EKY7**
	0.39 cu ft	0	Not Rated	29 lb	12 in	8 in	10 3/10 in	Gray	Sentry Safe	**3EKY8**
Programmable Electronic w/Time Delay	0.94 cu ft	0	Not Rated	95 lb	20 in	14 in	15 3/5 in	Black	Sentry Safe	**3EKY9**
	1.09 cu ft	0	Not Rated	108 lb	24 in	14 in	15 3/5 in	Black	Sentry Safe	**3EKZ1**
	1.57 cu ft	1	Not Rated	121 lb	27 in	14 in	15 3/5 in	Black	Sentry Safe	**3EKZ2**
Floor and Wall Safes										
3 Point Deadlock	16.07 cu ft	2	40 min.	279 lb	59 in	18 in	—	Black	Barska	**45CP32**
Biometric	1.23 cu ft	2 Adjustable	Not Rated	48.5 lb	19 3/4 in	14 in	13 in	Black	Barska	**20VK06**
Combination	1.23 cu ft	1	1 hr	90 lb	17 4/5 in	16 1/5 in	19 1/5 in	Black	Sentry Safe	**29RV55**
Combination, Dual Key	1.23 cu ft	2 Adjustable	1 hr.	90 lb	17 4/5 in	16 1/4 in	19 1/4 in	Gray	Sentry Safe	**6MPJ7**
	2.05 cu ft	2 Adjustable	1 hr.	125 lb	23 4/5 in	18 3/5 in	19 1/5 in	Gray	Sentry Safe	**32RT41**
	3 cu ft	2 Adjustable	1 hr.	335 lb	34 1/2 in	20 1/2 in	22 in	Gray	Sentry Safe	**3KB52**
	4.6 cu ft	2 Adjustable	1 hr.	509 lb	39 13/16 in	25 2/5 in	23 2/5 in	Gray	Sentry Safe	**3KB53**
Digital, Dual Key	3 cu ft	2 Adjustable	1 hr.	335 lb	34 1/2 in	20 1/2 in	22 in	Gray	Sentry Safe	**2TJ14**
	4.6 cu ft	2 Adjustable	1 hr.	509 lb	40 in	25 1/2 in	23 1/2 in	Gray	Sentry Safe	**2TJ15**
Electronic, Card Swipe	1.1 cu ft	0	0	31 lb	9 in	18 in	16 in	Black	Sentry Safe	**45DP81**
Electronic, Dual Key	1.23 cu ft	1	1 hr.	90 lb	17 4/5 in	16 1/4 in	19 1/4 in	Gray	Sentry Safe	**6MPJ8**
	2.05 cu ft	1	1 hr.	125 lb	23 4/5 in	18 3/5 in	19 1/5 in	Black/Gray	Sentry Safe	**32RT42**
Electronic, Override Key	2.3 cu ft	2 Adjustable	Not Rated	105 lb	23 9/10 in	15 1/2 in	16 1/5 in	Black	Sentry Safe	**6MPK2**
	3.4 cu ft	2 Adjustable	1/2 hr.	163 lb	27 51/64 in	21 45/64 in	19 in	Black	Sentry Safe	**6MPK6**
	4.3 cu ft	2 Adjustable	Not Rated	195 lb	27 7/10 in	21 3/4 in	19 3/4 in	Black	Sentry Safe	**6MPK3**
	4.7 cu ft	3 Adjustable	1/2 hr.	217 lb	37 3/4 in	21 69/100 in	19 in	Black	Sentry Safe	**6MPK7**
	6.1 cu ft	3 Adjustable	Not Rated	220 lb	37 3/4 in	21 3/4 in	19 3/4 in	Black	Sentry Safe	**6MPK4**
Keyed	10 cu ft	3 Adjustable	—	32 lb	9 1/2 in	14 in	4 in	Off White	Stack-On	**402M10**
	11 cu ft	2 Adjustable	—	15 lb	21 in	14 in	4 in	White	Stack-On	**402M11**
Gun Safes										
Biometric	1.72 cu ft	1	Not Rated	66 lb	52 1/8 in	9 7/8 in	8 3/4 in	Black	Barska	**39H968**
Biometric, Key	5.5 cu ft	1	Not Rated	106 lb	57 in	13 3/4 in	13 3/4 in	Black	Barska	**20VK03**
Combination Dial	9.93 cu ft	5 Adjustable	1 1/4 hr	462 lb	59 in	23 3/8 in	20 7/8 in	Gray Pebble	Total Defense	**402L60**
	11.82 cu ft	—	Not Rated	247 lb	55 in	17 41/64 in	27 in	Black	Stack-On	**402L79**
	11.95 cu. ft.	—	1/2 hr.	418 lb.	55"	20 1/4"	29 1/4 in	Green	Fs Series	**402L74**
	20 cu ft	4	1/2 hr	495 lb	59 in	36 in	24 in	Black	Mesa Safe Company	**40CJ41**
Electronic	0.08 cu ft	—	Not Rated	12 lb	3 3/16 in	12 in	9 15/16 in	Black	Sentry Safe	**29RV57**
	7.28 cu ft	3 Adjustable	1/2 hr	309 lb	55 in	20 1/4 in	19 in	Black	Armourguard	**402L72**
	7.57 cu ft	—	1/2 hr	293 lb	55 in	20 1/4 in	19 in	Black	Fs Series	**402L75**
	9.25 cu ft	3 Adjustable	1/2 hr	361 lb	55 in	20 3/4 in	22 3/8 in	Black	Armourguard	**402L71**
	9.93 cu ft	5 Adjustable	1 1/4 hr	462 lb	59 in	23 3/8 in	20 7/8 in	Gray Pebble	Total Defense	**402L59**
	16.8 cu ft	3 Adjustable	1/2 hr	450 lb	55 in	25 1/2 in	29 1/4 in	Black	Armourguard	**402L70**
	20 cu ft	4	1/2 hr	495 lb	59 in	36 in	24 in	Black	Mesa Safe Company	**40CJ40**
	22.19 cu ft	6 Adjustable	1/2 hr	545 lb	59 in	26 3/4 in	35 1/2 in	Black	Stack-On	**402L87**
	32.8 cu ft	6	1/2 hr	827 lb	72 in	42 in	27 in	Black	Mesa Safe Company	**54FG48**
Key	0.1 cu ft	0	Not Rated	6.5 lb	3 1/4 in	11 7/8 in	10 in	Black	Sentry Safe	**45CJ88**
High-Security Medical Storage Cabinets										
Double Key Lock	15 lb.	1	—	6 lb.	7 1/4"	8 3/4"	6 in	Beige	Mpd Medical	**38TJ43**
	25 lb.	1 Adjustable	—	16 lb.	15"	18"	8 in	Beige	Mpd Medical	**38TJ40**
	35 lb	2 Adjustable	—	30 lb	30 in	18 in	10 in	Beige	Mpd Medical	**38TJ45**
	35 lb.	2 Adjustable	—	34 lb.	30"	18"	8 in		Mpd Medical	**38TJ42**
	35 lb.	2 Adjustable	—	26 lb.	30"	18"	8 in	Beige	Mpd Medical	**38TJ41**
	35 lb.	1 Fixed, 2 Adjustable	—	46 lb.	30"	24"	10 in	Beige	Mpd Medical	**38TJ44**
Electronic	25 lb.	3 Fixed	—	32 lb.	18"	22"	4 in	Beige	Mpd Medical	**38TJ25**
Hotel Safes										
Electronic	0.66 cu ft	0	Not Rated	35.2 lb	18 in	14 1/4 in	6 1/2 in	White	Global Safe	**53KA37**
	0.66 cu ft	0	Not Rated	35.2 lb	18 in	14 1/4 in	6 1/2 in	White	Global Safe	**53KA38**
	1.01 cu ft	0	Not Rated	30.8 lb	9 in	17 in	14 in	Black	Global Safe	**53KA35**
	1.19 cu ft	0	Not Rated	35.2 lb	7 1/2 in	19 1/2 in	15 3/4 in	Black	Global Safe	**53KA36**
Portable Safes										
Digital Keypad	0.54 cu ft	0	1 hr	66 lb	11 89/100 in	17 11/20 in	14 41/50 in	Black	Barska	**20VK10**
Digital Keypad, Locking Latch	0.5 cu ft	1	Not Rated	16.5 lb	5 in	17 1/2 in	12 1/2 in	Black	Barska	**20VK22**
Digital Lock	0.4 cu ft	0	Not Rated	12 lb	7 1/2 in	11 1/2 in	10 1/2 in	Black	Sentry Safe	**23Y706**
	0.5 cu ft	1	Not Rated	14 lb	8 1/16 in	13 3/4 in	10 5/8 in	Black	Sentry Safe	**2GTN7**
Electronic, Override Key	0.23 cu. ft.	1	Not Rated	10 lb.	5 3/8"	12 1/2"	10 3/8 in	Black	Sentry Safe	**5DJP7**
	1 cu ft	1	Not Rated	24 lb	8 7/8 in	16 15/16 in	14 9/16 in	Black	Sentry Safe	**2GTN8**
	1.2 cu ft	1	Not Rated	27 lb	10 5/8 in	16 15/16 in	14 9/16 in	Black	Sentry Safe	**2GTP1**
Wall Safes										
Biometric with Key Backup	0.52 cu ft	2 Removable	—	29 lb	20 3/4 in	15 13/32 in	3 3/4 in	Black	Barska	**20VK08**

Commercial Gate Operators

- 115V, single-phase
- ½-HP motor
- Continuous time interval

Includes a built-in LiftMaster® 312HM radio receiver for use with DIP Switch and Security+® remote controls. Rated for 100 cycles per hr. Commercial Gate Operators are compatible with Garage Door Openers Nos. 46X657 and 6UR95, available on Grainger.com®.

Slide Operator—Unit has alarm reset button, surge/lightning protection, weatherproof polyethylene cover, high-speed precision limit switches, and a gold zinc-plated chassis to help reduce corrosion. For use with slide gates, not included.

Swing Operator—Has "nonscissor action" function to help reduce injury. Feature an alarm reset button, surge/lightning protection, weatherproof polyethylene cover, high-speed precision limit switches, and a gold zinc-plated chassis to help reduce corrosion. For use with swing gates, not included.

Barrier Operator—DC-powered unit is for right- or left-handed operation. Features built-in battery backup, control inputs, inherent obstruction sensing, LED indicators, and an aluminum alloy chassis that resists corrosion. Gate Arm sold separately, go to grainger.com® and search for Gate Arms.

Gate Arms—Aluminum gate arms have yellow/black reflective stripes.

LiftMaster

Accessories—Photo Eyes Safety Device No. 5MKL9 stops and reverses the gate when an object is detected in its path.



No. 45TR71



No. 45TR69

Description	Max. Cap.	H	W	D	Motor	Voltage	Mfr. Model	Item No.
Commercial Gate Operators								
Slide	1000 lb.	26½"	18 7/64"	21 39/64"	½ HP	110VAC	SL3000501UL	**45TR71**
Slide	2000 lb.	26½"	18 7/64"	21 39/64"	1 HP	110VAC	SL3000101UL	**45TR72**
Slide	2200 lb.	20"	14 39/64"	21 7/64"	DC	120VDC	CSL24U	**45TR70**
Swing	1600 lb.	27 43/64"	14 13/16"	18 25/32"	DC	120VDC	CSW24UL	**45TR69**
Swing	1600 lb.	28"	15"	20 13/64"	½ HP	110VAC	CSW200501UL	**45TR73**
Swing	2000 lb.	28"	16 13/32"	24½"	1 HP	110VAC	CSW200101UL	**45TR74**
Barrier	15 ft. x 3" Arm	28"	15"	20 ½"	½ HP	110V/220V Single Phase	MATDCBB3	**5MKK9**

Description	For Use With	Mfr. Model	Brand	Item No.
Gate Arms				
Counterweight	Mfr. No. MA116R	MA117	Liftmaster	**5MKL7**
Gate Operator Accessories				
Plug-In Loop Detector	Mfr. No. SL3000UL3, CSW200UL3	AELD	Liftmaster	**5MKL2**
Plug-In Loop Detector	Gate Operator	LD7LP	Liftmaster	**5MKN0**
Mounting Plate	5MKK7 and 5MKK8 Gate Operators	MPEL	Liftmaster	**5MKL3**
Photo Eyes Safety Device	Mfr. No. SL3000UL3, CSW200UL3, MATDCBB3	AOMRON	Liftmaster	**5MKL9**
Heater	5MKK7 Gate Operator	G6518SL	Liftmaster	**5MKL0**
Heater	5MKK9 Gate Operator	UN201	Liftmaster	**5MKL8**
Linear Actuator Package	Mfr. No. LOOPDETLM, 828LM, 894LT, 813LM, 811LM, 894LT, 892LT, 375UT, G50XNL1218, G50XNL1818, G50ENL1218, G50ENL1818, KPW5, KPW250, STAR1000, EL1SS	LA500PKGU	Liftmaster	**45TR81**
Photo Eye - Through Beam	Mfr. No. CSW24U, CSL24U, SL3000501U, LA500PKGU, SL3000101U, CSW200501U, CSW200101U	LMTBU	Liftmaster	**45TR75**
Entry Transmitter - Wireless	Mfr. No. CSW24U, CSL24U, SL3000501U, LA500PKGU, SL3000101U, CSW200501U, CSW200101U	LMWEKITU	Liftmaster	**45TR77**
Heater - Safety Device	Mfr. No. SL3000501U, SL3000101U, CSW200501U, CSW200101U	HTRNB	Liftmaster	**45TR80**

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Mail Chest and Pedestals

Mail is deposited through a nonlocking access panel on the front. Has an outgoing mail tray and an adjustable red signal flag. Aluminum construction with a powder-coated finish. Can be mounted on a pedestal (not included). Front and rear access doors include a lock and 2 keys (keyed alike).

No. D0046



Description	▶CHOOSE: Color	Orientation	H	D	W	Net Weight	Item No.
Bolt Mounting							
Pedestal	Black, Silver, White, Green	—	32"	3½"	3½"	15 lb.	**D0047**
In Ground Mounting							
Pedestal	Black, Silver, White, Green	—	48"	3½"	3½"	20 lb.	**D0578**
Pedestal Mounting							
Mail Chest	Black, Silver, White, Green	—	17¼"	23"	14⅜"	30 lb.	**D0046**
Locks and Reg Flag	Black	Square	13⅝"	18¼"	12½"	25 lb.	**33KT11**
Lock, Master Commercial Lock, Enclosure and Pedestal	Sandstone	Horizontal	66¾"	19"	32¼"	215 lb.	**33ME10**
(12) Tenant Doors, Parcel Locker, Pedestal	Gray	Vertical	62¾"	18"	30½"	155 lb.	**52VF47**
Locks and Reg Flag	Nickel	Square	13⅝"	18¼"	12½"	25 lb.	**33KT15**
Heavy Duty Mailbox	Black	—	9½"	20½"	7½"	15 lb.	**D0051**
Recessed Mounting							
Locks	Aluminum	Horizontal	30"	15½"	23½"	100 lb.	**33LE57**
Locks and Master Commercial Lock	Aluminum	Horizontal	56¾"	17"	31⅛"	170 lb.	**33MA43**
20 Mailbox Doors, 2 Parcel Lockers	Aluminum	—	56¾"	17"	31⅛"	170 lb.	**3YNP4**
18 Mailbox Doors, 2 Parcel Lockers	Aluminum	—	55"	17"	31⅛"	160 lb.	**3YNP6**
Locks and Reg Flag	Black	Square	36"	23"	14⅜"	50 lb.	**33KX16**
Standard Mailbox	Aluminum	—	40¾"	16½"	35¾"	85 lb.	**D0036**
(5) Pin Cylinder Cam Lock, (2) keys	Bronze	Horizontal	40¾"	16½"	35¾"	100 lb.	**48UJ34**
Surface/Post Mounting							
Lock, (2) Keys	Black	Horizontal	15"	8"	17"	20 lb.	**33KP79**
Lock, (2) Keys	Beige	Horizontal	15"	8"	17"	20 lb.	**33KP78**
Surface Mounting							
Newspaper Holder	Black	Horizontal	11"	3½"	14½"	10 lb.	**33KP13**
Newspaper Holder	Black	Vertical	14½"	3½"	11"	10 lb.	**33KP21**
Mounting Hardware, Enclosure	Sandstone	Horizontal	56⅛"	17½"	32¼"	210 lb.	**52VD80**

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Courier Box

For depositing and collecting mail, documents, small packages, and other items. Front loading. Made of 14-ga. steel. Features a 3-point locking mechanism and 2 keys.



▶CHOOSE: Color	Mounting	H	D	W	Item No.
Gray, White, Blue Primer	Free Standing	49"	26"	20"	**D0045** **48UJ68**

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Front Loading Mailbox

30 door mailbox features solid brass, die cast compartment doors and name plate to identify tenant's name and box number. Each door includes a 5-pin cylinder cam lock with 2 keys. Front door panel swings open on a continuous hinge. Doors have powder-coated gold finish. Comes with 2 commercial locks and 2 keys.



Mounting	H	D	W	Item No.
Recessed	26½"	16"	23½"	**33LK97**



No. 20W460

evolis ZEBRA GA GRAINGER APPROVED

ID Badge and Card Printers

Create plastic IDs, badges, and loyalty and gift cards.

EVOLIS

Provide edge-to-edge printing for medium to large runs. Single-Side Printer No. 36J111 prints up to 190 cards per hr. Dual-Side Printer No. 36J112 prints up to 191 cards per hr. Both include software, drivers, USB, and power supply.

ZENIUS

Prints up to 150 color cards per hr. and up to 500 monochrome cards per hr.

DATACARD SD260™

Printers have full-color and monochrome printing capability. Easy to use with LCD panel and touch controls. Print up to 200 color single-sided cards per hr.; 155 color dual-sided cards per hr.; or 830 monochrome, single-sided cards per hr.

ZEBRA ZXP SERIES 8™

Retransfer printers provide photo-quality image and print resolution. Print up to 190 single-sided cards per hr. Security features include single- or dual-sided lamination, transfer film that shows tamper evidence, and lockable enclosure and card feeder to prevent unauthorized use.

Description	Brand	Item No.
Single-Sided Printers		
Card Printer, Evolis, USB And Ethernet	Evolis	**36J111**
Zenius Expert Economy Printer	Evolis	**20W460**
Datacard SD260™ Printer with USB Connection	Entrust Datacard	**20W463**
Dual-Sided Printers		
Evolis Card Printer, USB And Ethernet	Evolis	**36J112**
Zebra ZXP Series 8™ Retransfer Printer	Zebra	**20W469**

Description	For Use With	Brand	Item No.
Ribbons			
5 Panel Color Ribbon, YMCKO, 100 Images	Pebble 4, Dualys 3	Evolis	**3EAL1**
5 Panel Color Ribbon, YMCKO, 200 Images	Datacard SD260, SD360	Evolis	**20W464**
6 Panel Color Ribbon, YMCKO/K, 200 Images	Dualys 3	Evolis	**3EAR2**
Plastic PVC Cards			
Standard Cards, Box of 100	Pebble 4, Dualys 3	Evolis	**3EAR9**
Cards with Magnetic Strip, Box of 100	Pebble 4, Dualys 3	Evolis	**3EAT1**
Cards with Adhesive Backing, Box of 100	Pebble 4, Dualys 3	Evolis	**3TLP7**
Blank ID Cards	All Dye-Sub PVC Card Printers	GA	**4HRF6**
Accessories			
1.0 mil Top Laminating Film, 625 Imprints	Zebra ZXP Series 8 with Laminator	Zebra	**20W473**

MAGICARD

ID Card Printers



No. 443Y79

Portable, single-sided printers are hand-fed for lower volumes. Easy-to-use with drop-in-dye sublimation with 300dpi. Also can use thermally activated rewrite cards in monochrome. Feature free card visual security with 4 HoloKote® watermark designs on every card. For use with MAC or PC and has USB connection. Prints up to 51 cards/hr. 100 cards per roll.

Type	Item No.
Pronto System, Single-Sided, Low Volume Capacity	**443Y79**
Pronto Mag System, Single-Sided, Lower Volume Capacity, Magnetic System	**443Y80**
Pronto Smart System, Single-Sided, Lower Volume Capacity, Smart System	**443Y81**



Clip-On Badge with Timing Dot



Clip-On Badge with Timing Date

BRADY GA GRAINGER APPROVED

Self-Expiring Badges, Wristband, and Badge Holders

Self-Expiring Badges—Reveal an "Expired" message after 24 hours.

Rearview Mirror Hanging Tags—Hanging parking permits help keep track of visitor and employee vehicles.

Tyvek® Wristband—Keep track of personnel, visitors, and patients. Tough, tamper-resistant wristband is waterproof.

Badge Holders—Choose from a variety of badge holders and lanyards to secure badges. More styles are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "badge holders."

Description	▶CHOOSE: Legend	Color	W	Item No.	Pkg. Qty.
Self-Expiring Badges and Permits, Brady®					
Clip-On Badge, Timing Date	Visitor	Red	1"	**D0063**	500
Adhesive-Backed Front and Back Badge	Contractor, Temporary, Visitor	Red	2"	**D0064**	500
Adhesive-Backed Liner	Contractor, Visitor	Red	2"	**D0066**	500
Clip-On Badge, Timing Date	Contractor	Red	3"	**D0063**	500

Description	Color	W	L	Item No.	Pkg. Qty.
Rearview Mirror Hanging Tags, GA					
Parking Permit	Blue	3"	5"	**2XKE6**	5
Employee Parking Permit	Red	3"	5"	**2XKE7**	5

Description	▶CHOOSE: Type	▶CHOOSE: Color	L	Item No.	Pkg. Qty.
Wristbands, Brady®					
Tyvek®	Tyvek	Purple, Red, Yellow, Blue, Pink, Orange, Green	10"	**D0077**	500
Badge Holders, GA					
Clip-On Badge Holder	Horizontal	Clear	2 19/32"	**2XKF2**	5
Clip-On Badge Holder	Vertical	Clear	3½"	**2XKF1**	5
Snap Economy Strap Clip	Snap	Clear	3½"	**2XKF5**	10
Plastic Retractable Reel with Snap Clip	Retractable	Blue	1¼"	**2XKG1**	5
Plastic Retractable Reel with Snap Clip	Single Color	White	—	**25DU68**	10
Retractable ID Badge Holder with Belt Clip	Heavy Duty, With Steel Wire Cord	Clear Strap, Black/Chrome Reel	—	**3YUY1**	1
Flat Neck Cord Lanyard with Retractable Reel	Standard Reel, Breakaway, Reel With Clip	Black, Blue	36"	**D0076**	1
Wallet-Style Nylon Badge Holder Pouch and Cord	Wallet Style	Black	6½"	**2XKK4**	5
Flat Neck Cord Lanyard	Swivel Hook	Black	36"	**2XKH6**	10

Trilogy® Electronic Access Control Locks with Audit Trail, Grade 1

ALARM LOCK

- **Key override; standard core (included) or SFIC cylinder (not included)**

Electronic door locks help eliminate the problem of lost keys and rekeying costs. Replace a standard knobset. Work in conjunction with panic bars from Von Duprin, Yale, Sargent, or Adams Rite® on glass/narrow-stile doors. Use 5 AA batteries (included).

PIN/ID CARD CONTROL

Create multitiered security at 4 levels: master, manager, supervisor, or general user. Manage up to 500 automatic lock/unlock schedules (by day, date, weekend, or holiday). Operating temp.: -31° to 151°F. Field reversible.

No. 24U104 is a programmable double-sided lock with both proximity card and keypad PIN access.

Programmable Keypad No. 1HUZ8 has remote-release/request-to-exit input that allows use with REX switches. Wall- or single-gang box mount.

ID CARD CONTROL ONLY

Proximity-only locks have no keypad; accept both prox cards and keyfobs for access. Tap-and-add feature makes it easy to batch-add multiple ID cards with or without PC. PC programming/reporting.

CODE ONLY

No. 24Z459 provides multilevel security: master, manager, supervisor, and basic; can be programmed at the keypad with PC and/or data transfer module. Quick passage mode allows emergency access.

Double-Sided Proximity Lock No. 24U102 has direction-specific access that can be assigned, per user, for either side of the door.

Nos. 1HWL3 and 1HWL4 have a privacy button on inside of door to disable all other codes for a programmable duration when temporary sessions of privacy are needed. Programmable Keypad No. 1HUZ6 has remote-release/request-to-exit input that allows use with REX switches. Wall- or single-gang box mount.

ACCESSORIES

Trilogy® Windows® Software No. 1HYC3 can manage users and schedules, receive audit trail from lock, program lock using PC, and program/configure Handheld Data Transfer Module No. 1HYB8. Can transfer program data from PC to lock and receive audit trail from lock. Wireless Infrared Printer No. 1HYC4 is a handheld unit that can print time- and date-stamped audit trail. Batch Proximity ID Card Enroller No. 1HYB7 can add new users without the use of a PC.



Cylindrical Standard No. 1HVL6



Mortise Standard No. 1HVL8



Keypad No. 1HUZ8



Cylindrical Standard No. 24U097



Privacy Cylindrical Standard No. 1HWL3



Narrow-Stile, Adams Rite® Deadlatch No. 1YND1



Proximity ID Fobs No. 1HYC1



Adhesive Proximity Tags No. 1HYC2

Description	Hand	Key Override Options	Max. User Codes	Event Audit Trail	Battery Life	Finish	Mfr. Model	Item No.
Programmable Lock, PIN/ID Card Control								
Cylindrical	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3000 US26D	**1HVL6**
Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	PDL3000IC US26D	**1HVL7**
Cylindrical, Entry with Key Override and Privacy	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4100 US26D	**20UL47**
Cylindrical, Entry with Key Override	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	PDL4100IC US26D	**20UL48**
Cylindrical, Double-Sided	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL5300 US26D	**24U104**
Cylindrical, Double-Sided	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL5300IC US26D	**24U105**
Mortise	Right	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3500CRR US26D	**1HVL8**
Mortise	Left	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3500CRL US26D	**1HVL9**
Mortise	Right	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4500DBR US26D	**20UL49**
Mortise	Left	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4500DBL US26D	**20UL50**
Von Duprin Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DV99	**1HWL2**
Yale Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DY71	**3CCK2**
Sargent Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DS88	**3CCK4**
Narrow Stile, Adams Rite® Dead Latch	Nonhanded	Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	PDL1300/26D1	**1YND3**
Keypad	—	—	2000	40,000	—	Silver Powder Coated	PDK3000 MS	**1HUZ8**
Programmable Lock, ID Card Control Only								
Cylindrical	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PL3000 US26D	**24U097**
Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	PL3000IC US26D	**24U098**
Programmable Lock, Code Control, Code Only								
Cylindrical	Nonhanded	Standard SC1 Keyway	200	1000	100,000 Cycles	Satin Chrome	DL2800 US26D	**3AEA9**
Cylindrical	Nonhanded	Small Format Interchangeable Core	200	1000	100,000 Cycles	Satin Chrome	DL2800IC US26D	**3CCK5**
Cylindrical	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Satin Chrome	DL3000 US26D	**24Z457**
Cylindrical	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Satin Chrome	DL3000IC US26D	**24Z460**
Cylindrical, Weatherproof	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Satin Chrome	DL3000WP US26D	**24Z459**
Cylindrical, Weatherproof	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Satin Chrome	DL3000WPIC US26D	**24Z462**
Cylindrical	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Duronodic	DL3000 US10B	**24Z458**
Cylindrical	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Duronodic	DL3000IC US10B	**24Z461**
Cylindrical	Nonhanded	Standard SC1 Keyway	2000	40,000	100,000 Cycles	Satin Chrome	DL3200 US26D	**5MRW9**
Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	100,000 Cycles	Satin Chrome	DL3200IC US26D	**5MRX0**
Cylindrical, Double-Sided	Nonhanded	Standard SC1 Keyway	2000	40,000	100,000 Cycles	Satin Chrome	DL5300 US26D	**24U102**
Cylindrical, Double-Sided	Nonhanded	Small Format Interchangeable Core	2000	40,000	100,000 Cycles	Satin Chrome	DL5300IC US26D	**24U103**
Mortise	Right	Standard SC1 Keyway	300	40,000	100,000 Cycles	Satin Chrome	DL3500CRR US26D	**1HWL6**
Mortise	Left	Standard SC1 Keyway	300	40,000	100,000 Cycles	Satin Chrome	DL3500CRL US26D	**1HWL8**
Privacy Mortise	Right	1⅜" Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	DL4500DBR US26D	**24U099**
Privacy Mortise	Left	1⅜" Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	DL4500DBL US26D	**24U101**
Privacy Cylindrical	Nonhanded	Standard SC1 Keyway	2000	40,000	60,000 Cycles	Satin Chrome	DL4100 US26D	**1HWL3**
Privacy Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	DL4100IC US26D	**1HWL4**
Von Duprin Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DV99	**1HWL1**
Yale Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DY71	**3CCK1**
Sargent Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DNS8	**3CCK3**
Narrow Stile, Adams Rite® Dead Latch	Nonhanded	Adams Rite Series 4710, 4730, 4900	2000	40,000	80,000 Cycles	Satin Chrome	DL1300 US26D	**1YND1**
Keypad	—	—	2000	40,000	—	Silver Powder Coated	DK3000 MS	**1HUZ6**
Accessories								
Trilogy® Windows® Software and USB Cable	—	—	—	—	—	—	AL-PCI2-U	**1HYC3**
Data Transfer Module	—	—	—	—	50 hr.	—	AL-DTMIII	**1HYB8**
Infrared Handheld Printer	—	—	—	—	16 hr.	Black	AL-IR1	**1HYC4**
Batch Proximity ID Card Enroller	—	—	—	—	200 to 300 hr.	—	AL-PRE	**1HYB7**
Proximity ID Fobs, Pkg. of 10	—	—	—	—	—	Gray	ALHID1346	**1HYC1**
Adhesive Proximity Tags, Pkg. of 10	—	—	—	—	—	Black	ALHID1391	**1HYC2**
Proximity ID Cards, Pkg. of 100	—	—	—	—	—	—	ALHID1326	**1HYB9**



Cylindrical Standard
No. 24U106



Keypad Starter
Package
No. 24U117



Keypad
No. 24U119



Cylindrical
Standard
No. 24U108



Exit Device
No. 24U114



Keypad Starter
Package
No. 24U116



Wireless Control
Panel No. 24U120

Trilogy® Networx™ Networking Locks, Grade 1

- Key for manual override
- Weather-resistant; Operating temp.: -31° to 151°F
- Brushed chrome finish

Networked door access control systems eliminate door-to-door programming and audit trail retrieval by communicating wirelessly via 802.11B/G or Ethernet. No wires to run and no access panel or power supplies to install. Feature automatic schedules, event logs, and support for 2000 doors and 5000 existing proximity ID cards/badges.

PIN/ID CARD CONTROL

Programmable Locks Nos. 24U106 to 24U113 have built in HID proximity card reader, full-metal digital key pad, integral bidirectional radio, batteries, and serial number ID card. Starter Kit No. 24U117 includes NET-DKPAK and NET-PDKPAK controller and keypad. Keypad No. 24U119 supports 3 to 6 digit numeric PIN codes and prox ID card users (virtually all HID format proximity technology ID cards, fobs, and credentials).

CODE ONLY

Programmable Locks Nos. 24U108 to 24U111 have full-metal digital keypad for code only use. Starter Kit No. 24U116 includes NET-DKPAK and NET-PDKPAK controller and keypad. Keypad No. 24U118 supports 3 to 6 digit numeric PIN codes.

ACCESSORIES

Control Panel No. 24U120 includes circuit board with onboard flash memory and 12V power supply with transformer and rechargeable back-up battery. Supports 2 of any combination of NETDK or NETPDK keypads plus 2 Wiegand devices. Special 2-door mode allows 2 keypads and/or 2 Wiegand devices to separately control 2 doors. Gateway No. 24U121 supports up to 63 Networx™ locks using hardwire connection to the network via RJ45 Ethernet cable. Ceiling or wall mount. 1 antenna and 6VAC transformer included.

Description	Hand	Keying	Max. User Codes	Mfr. Model	Item No.
Programmable Lock, PIN/ID Card Control					
Cylindrical	Nonhanded	Standard	5000	PDL6100 US26D	**24U106**
Cylindrical	Nonhanded	Small Format Interchangeable Core	5000	PDL6100IC US26D	**24U107**
Mortise	Right	Standard	5000	PDL6500CRR US26D	**24U112**
Mortise	Left	Standard	5000	PDL6500CRL US26D	**24U113**
Von Duprin Exit Device	Nonhanded	Standard	5000	ETPDNS1G/26DV99	**24U115**
Keypad Starter Package	—	Standard	5000	NETPSKPAK US26D	**24U117**
Keypad Only	—	—	5000	NETPDK US26D	**24U119**
Programmable Lock, Keypad Control, Code Only					
Cylindrical	Nonhanded	Standard	5000	DL6100 US26D	**24U108**
Cylindrical	Nonhanded	Small Format Interchangeable Core	5000	DL6100IC US26D	**24U109**
Mortise	Right	Standard	5000	DL6500CRR US26D	**24U110**
Mortise	Left	Standard	5000	DL6500CRL US26D	**24U111**
Von Duprin Exit Device	Nonhanded	Standard	5000	ETDLNS1G/26DV99	**24U114**
Keypad Starter Package	—	—	5000	NETDKPAK US26D	**24U116**
Keypad Only	—	—	5000	NETDK US26D	**24U118**
Accessories					
Wireless Control Panel	—	—	—	NETWORXPANEL	**24U120**
Ethernet Connected Gateway	—	—	—	AL-IME	**24U121**
Power Over Ethernet/ Hardware Gateway	—	—	—	AL-IMPOEP	**24U122**
Wi-Fi Gateway	—	—	—	AL-IM80211	**24U123**
Proximity ID Fobs, Pkg. of 10	—	—	—	ALHID1346	**1HYC1**
Adhesive Proximity Tags, Pkg. of 10	—	—	—	ALHID1391	**1HYC2**
Proximity ID Cards, Pkg. of 100	—	—	—	ALHID1326	**1HYB9**



Programmable
Lock, Single-
Sided, Satin
Chrome



Programmable Lock,
Double-Sided



Narrow-
Stile

Trilogy® Keyless Electronic Control Locks, Grade 1

- Key override; standard core (included) or SFIC cylinder (not included, sold on Grainger.com®)
- Operating temp.: -31° to 151°F except Nos. 3ZM80, 3ZM83, and 3ZM81

Easily replace keyed locks with these electronic access control locks. Compatible with most doors that have a standard knob set. Fingertip-programmable keypad allows up to one hundred 3- to 5-digit codes. DL2700-series locks can create a 3-tiered hierarchy of custom codes: 1 master, 10 managers, 90 standard codes, and three 1-time-use codes. Low battery alert. Include 5 AA batteries (up to 150,000 cycles), except No. 3CCK6, which includes 2 lithium batteries (80,000 cycles). Double-sided models are for code control on both sides of the door.

Description	Finish	Weather Resistant	Key Override Options	Mfr. Model	Item No.
Programmable Lock, Code Control					
Single-Sided	Satin Chrome	No	Standard SC1 Keyway	DL2700 US26D	**3ZM80**
Single-Sided	Satin Chrome	No	Small Format Interchangeable Core	DL2700IC US26D	**3ZM83**
Single-Sided	Satin Chrome	Yes	Standard SC1 Keyway	DL2700WP US26D	**6JD79**
Single-Sided	Satin Chrome	Yes	Small Format Interchangeable Core	DL2700WPIC US26D	**6JD80**
Double-Sided	Satin Chrome	Yes	Standard SC1 Keyway	DL5200 US26D	**3CCK7**
Double-Sided	Satin Chrome	Yes	Small Format Interchangeable Core	DL5200IC US26D	**3CCK8**
Narrow Stile, Exit Devices, Programmable Lock, Code Control					
Adams Rite	Satin Chrome	Yes	Standard SC1 Keyway	DL1200/26D1	**1YND2**
Von Duprin	Satin Chrome	Yes	Standard SC1 Keyway	DL1200ET/26D	**3CCK6**
Programmable Lock, Code Control					
Single-Sided	Bright Brass	No	Standard SC1 Keyway	DL2700 US3	**3ZM81**

NexTouch™ Electronic Touch Screen Locks

- Weather-resistant; operating temp.: -40° to 140°F
- Include 4 AA batteries

Install in minutes in nearly any standard cylindrical lock prep, with ¾"-dia. hole for wiring. Use 12-button touch screen to add, eliminate, or reprogram access codes in seconds; voice-guided instructions in 3 languages. Feature a vandal-resistant freewheeling lever handle. Ideal for access control management in offices, patient records, storerooms, hotels/motels, and other applications that may require frequent rekeying. No. 52WN32 accepts SFIC cylinders.

Description	Finish	Key Override Options	Mfr. Model	Item No.
Touch Screen Electronic Keyless Lock	Satin Chrome	Yale Keyway	AU-NTB620-NR-626	**52WN32**
Touch Screen Electronic Keyless Lock, Less SFIC Cylinder	Satin Chrome	Small Format Interchangeable Core	B-AU-NTB620-NR-626-LC	**52WN35**
Push Button Electronic Keyless Lock	Satin Chrome	Yale Keyway	AU-NTB610-NR-626	**52WN30**
Push Button Electronic Keyless Lock Less SFIC Cylinder	Satin Chrome	None	AU-NTB640-NR-626	**52WN33**



No. 52WN32

Electromagnetic and Keyless Access Control Locks

Use in a wide range of facilities, including large hospitals, small clinics, campus universities, single buildings, or entire office developments. Programmable keypads feature on-board controller access to simple electrified or battery-powered locking devices.

C0100 Series Offline Electronic Lock—Provide customized levels of security at each door, with a large selection of credentials and networking options. Allow addition/deletion of users, usage tracking, and data management without installing a facility-wide network. Upgrade to a network solution by replacing the network module, not the entire lock. Also provides an easy way to manage people, audits, locks, and other network panel interface devices for simple access control. Allows up to 5000 user codes and has a 6 pin full cylinder. Everest C123 Keyway with Sparta lever. Satin chrome finish.

Access Credential Reader—Provide flexible building security and security management solutions. Magnetic stripe card reader is full-swipe for maximum readability. Linked access available with keypad with card or iButton. Fully compatible with ABA Track 2 or Track 3 standards.

Keyless Access Control Locks—Illuminated keypad locks offer up to 19 individual user codes to provide secure access; program right at the keypad. Include 2 backup keys for emergency egress. Fit left- and right-handed doors from 1⅜"- to 1¾"-thick. All-metal chassis and escutcheons with wear-resistant silicone rubber buttons. Include 9V battery and low battery indicator light.

Description	Mfr. Model	Item No.
C0100 Series Offline Electronic Lock		
Office Lock, Keypad Reader	C0100CY50 KP RHO 626 PD	**5VRD5**
Access Credential Reader		
Touch Entry Key, Use with Entry Reader Device, On Key Holder	IBF	**4GD99**
Keyless Access Control Locks, Deadbolt		
Auxiliary with Key Override, Bright Brass	BE365 PLY 505	**36Z098**
Auxiliary with Key Override, Satin Chrome	BE365 PLY 626	**36Z101**
Classroom with Key Override, Satin Chrome	FE575 PLY626ELA	**28XX46**
Classroom with Key Override, Satin Chrome	FE595 PLY626ELA	**28XX47**
Classroom/ Storeroom, Satin Chrome	C0100CY70 KP RHO 626 PD	**40GN41**



No. 5VRD5



No. 4GD99



No. 36Z098

Electronic Access Control Locks with Audit Trail, Grade 1

- Key override; key-in lever cylinder (included) or SFIC cylinder (not included)
- Weather-resistant; operating temp.: -31° to 151°F
- Up to 300 users, 9000 audit events
- For 1¾"- to 2¼"-thick doors; 2¾" backset
- Include 4 AA batteries

Event audit trail provides a printable time/date-stamped log of all door activity. Features include audible low battery alert, timed relock, codes for 1-time use, antitamper function (invalid entry), and total user lockout codes. Lock can be programmed and audits downloaded via software and laptop PC (not included). Locks have a vandal-resistant all-metal keypad. Class/storeroom function requires no code for egress. Unique Lectro Belt eliminates wiring to or through the door. Retrofit standard ASA 161 door preps.

Description	Key Override Options	Max. User Codes	Finish	Item No.
Cylindrical	Schlage "C" Keyway (Included)	100	Satin Chrome	**2ZU97**
Lever	KABA Cylinder (Schlage "C" Keyway) Included	1	Satin Brass	**2ZU96**
Cylindrical	Best and Equivalents	100	Satin Chrome	**5BB75**
Lever	Best and Equivalents (6 or 7 Pin)	1	Satin Brass	**5BB74**



No. 2ZU97



No. 5BB75



GA GRAINGER APPROVED

Biometric Access Door Lock

- Key override, up to 120 users
- For 1⅜"- to 2"-thick doors; 2⅜" or 2¾" backset
- Indoor use only
- Includes 4 AA batteries

Fingerprint reader allows only authorized individuals to have access to secure areas or items. Master user can manage, add, and delete user access by group. Processor stores memory when battery is removed for replacement. Nonhanded, field-reversible lever. Fingerprint, PIN, or mechanical key access. Zinc alloy construction.

Finish	Item No.
Satin Chrome	**2RUZ4**





2000 Series, Grade 1 Electronic Push-Button Locks

E-PLEX® BY KABA

- 100 individual user codes
- For 1⅜"- to 2½"-thick doors; 2¾" backset

No wiring to install. Nonhanded, field-reversible locks have a vandal-resistant, all-metal keypad and a solid cast exterior housing and lever. Classroom/storeroom function; no code required for egress. Come with a standard core or are prepped for a SFIC cylinder (not included). Include lock assembly, installation manual, template, reference guide, operations manual, and hardware. Retrofit standard ASA 161 door preps.

PowerPlex™ Self-Powered— Efficient and innovative electronic locks generate power with each turn of the lever; no batteries required and virtually no maintenance costs. No. 6NVN9 includes Schlage C keyway, 2 keys. No. 6NVP0 is for use with Best® SFIC 6- or 7-pin length, not included.

Battery-Powered—Feature audible low battery alert, timed relock, codes for 1-time use, antitamper function (invalid entry), and total user lockout codes. Include 3 AA batteries.

Keying	D (in.)	W (in.)	Mfr. Model	Item No.
PowerPlex™ Self-Powered				
Schlage "C"	3 3/16	3 5/16	P2031XSLL62641	**6NVN9**
Best & Equivalents	3 3/16	3 5/16	P2031BLL62641	**6NVP0**
Battery-Powered				
Schlage "C"	2 13/16	3 5/16	E2031XSLL62641	**2ZU99**
Best & Equivalents	2 13/16	3 5/16	E2031BLL62641	**1NEZ7**







Protective keypad covers available, see page 1979.

SIMPLEX® BY KABA

Mechanical Access Control Push-Button Locks

- 1 user code
- For 1⅜"- to 2¼"-thick doors; 2¾" backset, ½" latch bolt
- Include ASA standard strikes

Provide an alternative to traditional keyed locksets. Classroom/storeroom function, no code required for egress. Retrofit standard ASA 161 door preps.

PROGRAMMABLE LOCKS, PUSH-BUTTON, GRADE 1 (5000 SERIES)

Standard KIL core included. Simple 4-screw installation. Compatible with most rim exit devices.

PROGRAMMABLE LOCKS, PUSH-BUTTON (L1000 SERIES)

Measure 9"L (inside) x 3⅛"W x 3 3/16"D.

Description	Keying	Hand	SATIN CHROME Mfr. Model	SATIN CHROME Item No.		ANTIQUE BRASS Mfr. Model	ANTIQUE BRASS Item No.	
Programmable Locks, Push-Button, Grade 1 (5000 Series)								
Lever	KIL	Reversible	5021-XS-WL-26D-41	**2ZU95**		—	—	
Lever	SFIC	Reversible	5021-B-WL-26D-41	**5BB73**	*	—	—	
Exit Trim, Lever	KIL	Reversible	5010-XS-WL-26D-41	**2ZV18**		—	—	
Programmable Locks, Push-Button (L1000 Series)								
Lever	Standard	Left	LL-1011-26D-41	**5U740**		LL-1011-05-41	**5U739**	
Lever	Standard	Right	LR-1011-26D-41	**5U742**		LR-1011-05-41	**5U741**	
Lever	SFIC	Left	LL-1021-B-26D-41	**4YF90**	*	LL-1021-B-05-41	**4YF89**	*
Lever	SFIC	Right	LR-1021-B-26D-41	**4YF92**	*	LR-1021-B-05-41	**4YF91**	*
Knob	Standard	Reversible	1011-26D-41	**1U140**		1011-05-41	**1U092**	
Lever	KIL	Reversible	5021XKWL26D41	**9LDD6**		—	—	
Knob	SFIC	Reversible	1021-B-26D-41	**4YF88**	*	1021-B-05-41	**4YF87**	*
Knob, Passage	Standard	Reversible	1031-26D-41	**1U141**		1031-05-41	**1U083**	
Mechanical Push Button Lockset								
Knob	Combination Access	Reversible	EE11/1126D41	**31NG48**		—	—	
Lever	R/C Schlage	Left	LL1021S26D41	**31NG77**		—	—	
Lever	R/C Schlage	Right	LR1021S26D41	**31NG80**		—	—	

**** Cylinders not included.***







Mechanical Access Control Locks

SIMPLEX® BY KABA

- 1 user code
- For 1⅜"- to 2½"-thick doors
- 2 cover plates included with each lock

Vandal-resistant, all-metal keypad. Nonhanded, field reversible. Lever locksets are 7 7/16"L x 2¼"W x 3"D. Breakaway lever helps keep vandals from damaging drive components. Knob locksets are 6 1/16"L x 2 3/16"W x 3"D. No batteries required.

Description	▶CHOOSE: Backset	▶CHOOSE: Finish	Item No.
Lever Lockset	2⅜", 2¾"	Antique Brass, Bright Brass, Satin Stainless	**D0001**
Knob Lockset	2⅜", 2¾"	Antique Brass, Bright Brass, Satin Stainless	**D0002**



900 Mechanical Access Control

SIMPLEX® BY KABA

- 1 user code
- 2½" backset

Classroom/storeroom function, no code required for exit. Nonhanded, field reversible. No batteries required. Can be used alone or with an existing lockset. Require a 1⅝"-dia. mounting hole. Measure 4"W x 5"H.

Note: All locks include a sheet metal strike for outswing doors and a cast box strike for inswing wood frame installation.

With Deadbolt—Deadbolt extends 1" from edge of door. Lock remains open and must be manually relocked. Egress by thumbturn.

With Deadlocking Latch and Holdback— Helps secure latch against prying. Automatically relocks after egress, except when latch hold-back is activated. No code is required for entry. Exit by thumbturn.

With Deadlocking Latch, No Hold-Back—Helps secure latch against prying. Automatically relocks after egress.

Metal Frame Adapter Kit—Includes surface-mounted strike with shims to adjust strike box. With ¼" x ⅜" reversible riser plate for aligning inside housing to strike.

▶CHOOSE: Door Thickness	▶CHOOSE: Finish	Item No.
With Deadbolt		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0003**
With Deadlocking Latch and Holdback		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0004**
With Deadlocking Latch, No Hold-Back		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0005**
Metal Frame Adapter Kit		
—	Satin Brass, Satin Chrome	**D0006**

Surface-Mount Magnalock® Electromagnetic Locks

SECURITRON
ASSA ABLOY

Fail-safe locks feature automatic dual voltage and instant release circuit. Brushed stainless steel finish. All ferrous metals plated to MIL specification. Mount using machine screws into blind finishing nuts; brackets and accessories available separately to configure any opening. Fully sealed electronics are tamperproof and weatherproof; safe for outdoor/marine use. All locks include 10 ft. of jacketed, stranded conductor.

M32 Series—M32-series locks provide 600-lb. holding force and are for use in medium-security applications. Require 2¼" flat mounting space. M32-series locks provide 600-lb. holding force and are for use in medium-security applications. Require 2¼" flat mounting space.

M62 Series—M62-series locks provide 1200-lb. holding force and are for use in high-security locations. Require 2½" flat mounting space.



No. 5KZU9

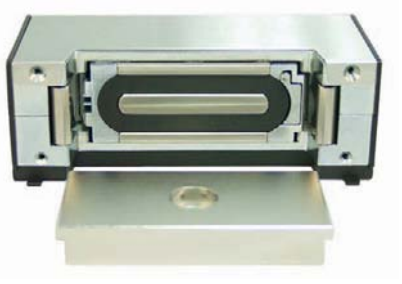
Amp Draw @ 12V	Amp Draw @ 24V	Lock Body (in.) L	Lock Body (in.) W	Lock Body (in.) D	Type	Mfr. Model	Item No.
M32							
300mA	150mA	8	1⅞	1³⁹⁄₆₄	—	M32	**5KZU9**
300mA	150mA	8	1⅞	1³⁹⁄₆₄	Face Mount	M32F	**5KZV0**
300mA	150mA	8	1⅞	1³⁹⁄₆₄	Face Mount, Bond Sensor	M32FB	**5KZV1**
300mA	150mA	8	1⅞	1³⁹⁄₆₄	Face Mount, Bond Sensor, Door Position Switch	M32FBD	**5KZV2**
300mA	150mA	8	1⅞	1³⁹⁄₆₄	Bond Sensor	M32B	**5KZV4**
300mA	150mA	8	1⅞	1³⁹⁄₆₄	Bond Sensor, Door Position Switch	M32BD	**5KZV5**
M62							
250mA	150mA	8	3	1¾	—	M62	**5KZV7**
250mA	150mA	8	3	1¾	Face Mount	M62F	**5KZV8**
250mA	150mA	8	3	1¾	Face Mount, Conduit Fitting	M62FG	**5KZV9**
250mA	150mA	8	3	1¾	Face Mount, Conduit Fitting, Bond Sensor	M62FGB	**5KZW0**
250mA	150mA	8	3	1¾	Face Mount, Conduit Fitting, Bond Sensor, Door Position Switch	M62FGBD	**5KZW1**
250mA	150mA	8	3	1¾	Face Mount, Door Position Switch	M62FD	**5KZW3**
250mA	150mA	8	3	1¾	Conduit Fitting	M62G	**5KZW4**
250mA	150mA	8	3	1¾	Bond Sensor	M62B	**5KZW8**
250mA	150mA	8	3	1¾	Bond Sensor, Door Position Switch	M62BD	**5KZX1**
250mA	150mA	8	3	1¾	Door Position Switch	M62D	**5KZX2**

Dual-Action Electromechanical Maglocks

SECURITRON
ASSA ABLOY

- 4000-lb. holding force
- Dual voltage 12/24VDC and dual current AC/DC

Hybrid design combines electromagnetic lock with 2 hardened steel electromechanical jaws. In a forced entry attempt, steel jaws rotate inward, clamping down and capturing the edges of the armature. Brushed stainless steel finish with included dress cover. Mount using machine screws into blind finishing nuts. Indoor use only. Brackets configure any opening, sold separately.



No. 5KZY0

Amp Draw @ 12V	Amp Draw @ 24V	Lock Body (in.) L	Lock Body (in.) W	Lock Body (in.) D	Type	Mfr. Model	Item No.
Electromechanical Locks							
130mA	250mA	6	2¾	1⅞	—	MM15	**5KZY0**
130mA	250mA	6	2¾	1⅞	Conduit Fitting	MM15G	**5KZY2**
130mA	250mA	6	2¾	1⅞	Door Position Switch, Antitamper	MM15DT	**5KZY1**
Accessories							
½" Stop Filler Plate, Clear, MM15						SFP-1/2CLMM15	**5KZY6**
Z Bracket Kit, Clear, MM15						Z-MM15CL	**5KZY8**
3" Header Extension Bracket for Glass Door, Clear, M32/M62						HEB-3G	**5KZZ4**

Electromagnetic Gate Lock with Shock-Absorbing Armature

SECURITRON
ASSA ABLOY

- 1200-lb. holding force

Face-mount Magnalock® with ¾" male conduit fitting is designed for heavy-duty applications. Stainless steel armature hardware kit provides superior impact absorption. Features ⅝" impact compression with 100-lb. resistance. Antikickback spring provides ⅜" rebound travel.



Amp Draw @ 12V	Amp Draw @ 24V	Lock Body (in.) L	Lock Body (in.) W	Lock Body (in.) D	Mfr. Model	Item No.
250mA	125mA	8	3	1¾	M62FG-SASM	**5KZU6**

High-Security Electromechanical Gate Lock

SECURITRON
ASSA ABLOY

Designed for vehicle or pedestrian applications, gate lock operates with up to 100 lb. of preload. Fail-secure convertible to fail-safe. Self-aligning receiver adjusts ½" vertically and horizontally to compensate for gate sag or misalignment. Lock features manual key override for right or left hand. ³⁄₁₆"-thick zinc-plated steel gate bracket kits are designed for sliding and swinging gates. Post brackets are predrilled, and lock brackets are pretapped for easy installation. O.D. up to 3" for gate post bracket; up to 2" for fence post bracket.



No. 5KZU7

No. 5KZU5

Description	Amp Draw @ 12V	Amp Draw @ 24V	Lock Body (in.) L	Lock Body (in.) W	Lock Body (in.) D	Mfr. Model	Item No.
2000 lb. Electromechanical Gate Lock	870mA	720mA	7¼	2¾	3¼	GL1-FL	**5KZU5**
Flex-Mount Bracket Kit - Sliding Gate	—	—	—	—	—	FMK-SL	**5KZU7**
Flex-Mount Bracket Kit - Swinging Gate	—	—	—	—	—	FMK-SW	**5KZU8**

Electromagnetic Locking Devices

SCHLAGE





Electromagnetic Lock



Touch Bar

LOCKS

Use to monitor a controlled area such as a hospital laboratory or a secure area in an airport. Also used to provide traffic control for doors in a commercial or education building. Utilize magnetic forces to maintain powerful bond between frame-mounted magnet and door-mounted armature. Available for surface-mount and concealed-mount applications in a variety of holding forces.

TOUCH BARS

Request-to-exit devices used to release electromagnetic locks. Designed for easy installation, smooth operation, and maximum durability.

LOCK ACTIVATION EXIT DEVICES

Magnetic spring design allows configuration of clockwise and counterclockwise key turn direction as well as momentary or maintained action.

Description	Mfr. Model	Item No.
Electromagnetic Locks, Automatic Voltage Selection, Aluminum Canisters		
Electromagnetic Lock, 500 lb. Holding Force	M420	**6LCZ1**
Electromagnetic Lock, 1000 lb. Holding Force	M450	**6LCY2**
Electromagnetic Lock, 1500 lb. Holding Force	M490	**6LCY5**
Electromagnetic Locks, Automatic Voltage Selection, Magnetic Bond Sensor, Door Position Switch, Relock Time Delay, Aluminum Canisters		
Electromagnetic Lock, 500 lb. Holding Force	M420P	**6LCZ2**
Electromagnetic Lock, 1000 lb. Holding Force	M450P	**6LCY3**
Top Jamb Brackets, Inswing Doors		
For Use With Electromagnetic Locks Nos. 6LCZ1, 6LCZ2	TJ420 628	**6LCZ3**
For Use With Electromagnetic Locks Nos. 6LCY2, 6LCY3	TJ450 628	**6LCY4**
For Use With Electromagnetic Locks Nos. 6LCY5, 6LCY6	TJ490 628	**6LCY7**
Electromagnetic Lock Activation Touchbars		
Heavy-Duty Touchbar, Push-to-Exit, Aluminum, For Doors 36" or Less, 20 AWG Leads	672 36 628 RD AR	**4GD88**
Electromagnetic Lock Activation Exit Devices		
Keyswitch Exit Device, Aluminum, 3A Rating @ 28 VDC, Fits 1 Gang Box	653-04	**4GD91**
Keyswitch Exit Device, Aluminum, 2A Rating @ 28 VDC, Fits 1 Gang Box	653-05	**4GD92**
Access Control Keypad, Black	IQ1LITE/19	**22PE95**
Access Control Keypad w/ Rim Panic, Black	M9900LITE/32D	**22PE96**
Replacement Battery Pack		
For Lock Power Supply	900-BB	**6LCZ5**



No. 1HVL1



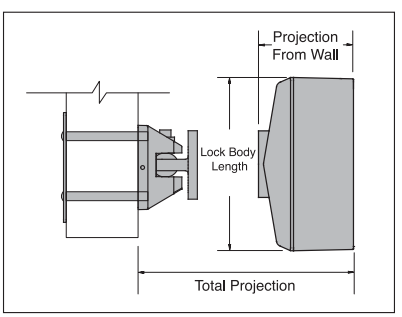
Electromagnetic Lock with Remote Control

ALARM LOCK

- 1200-lb. holding force per door leaf

Lock can be released from either side by the remote key fob. Fob automatically enrolls in system. Unit supports up to 100 remote-control key fobs. Includes mag lock, plug-in AC transformer, and 1 infrared remote control.

Description	Input Voltage	Lock Body Dim. (in.) L	W	D	Strike Plate Dim. (in.) L	W	D	Mfr. Model	Item No.
Remote Release Electromagnetic Lock	12 AC	10½	10½	1½	10½	2⅞	¼	RR-PM1200PAK	**1HVL1**
Infrared Wireless Remote Control Key Fob	—	—	—	—	—	—	—	AL-Remote	**1HVL3**



RIXSON ASSA ABLOY | Edwards Signaling | LCN

Electromagnetic Door Releases

Hold doors open until released by a fire alarm system, remote smoke detector, or other switching device. Fail-safe operation—power failure releases door to a closed position. Door closer is required to close door. Surface-mount models require a surface adapter housing (junction box), which is included. Recessed-mount models are for concealed wiring applications and mount on 2" x 4" outlet boxes.

Description	Power Req.	Holding Force	Projection from Wall	Total Projection	Lock Body Length	Mfr. Model	Item No.
Rixson Brand							
Wall Mount, Surface	0.08 A @ 12VDC, 0.08A @ 24VAC/DC, 0.08A @ 120VAC	30 lb.	2⅜"	4"	4⅝"	996	**6T310**
Wall Mount, Recessed	0.08 A @ 12VDC, 0.08A @ 24VAC/DC, 0.08A @ 120VAC	30 lb.	⅞	3⅜"	4⅝"	998	**6T308**
Wall Mount, Recessed, Adjustable	0.2A @ 120VAC, 0.2A @ 24VAC/DC	50 to 55 lb.	3¾"	4⅛"	—	994-A3	**4AZR3**
Wall Mount, Surface or Recessed, High Hold	0.25A @ 24VAC/DC	300 lb.	2¼"	5¼"	—	993-AC	**4AZR4**
Sliding Door	0.08A @ 24 VDC	75 lb.	3¼"	3¼"	—	972-ABXXS	**4AZR5**
Overhead Door	0.08 A @ 12VDC, 0.08A @ 24VAC/DC, 0.08A @ 120VAC	75 lb.	3¼"	3¼"	—	972-AAXXU	**4AZR6**
Floor Mount, Single Door	12VDC, 24VAC/DC, 120VAC	30 to 40 lb.	—	6⅜"	—	980-A3	**4AZR7**
Floor Mount, Back to Back Door	0.08 A @ 12VDC, 0.08A @ 24VAC/DC, 0.08A @ 120VAC	30 to 40 lb.	—	8¼"	—	981-A3	**4AZR8**
Extension Kit	—	—	—	Adds 1½" to 3¾"	—	900-G	**1RM43**
Edwards Signaling Brand							
Wall Mount, Surface	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	2 1/16"	4 1/16"	4⅝"	1508-AQN5	**2KFP1**
Wall Mount, Recessed	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	13/16"	3 1/16"	4⅝"	1504-AQN5	**2KFN9**
Floor Mount, Single Door	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	4 13/16"	6 1/16"	3¼"	1501-AQN5	**2KFN7**
Floor Mount, Double Door	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	4⅞"	6½"	3¼"	1502-AQN5	**2KFN8**
Wall Mount	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	13/16"	2 1/16"	4⅝"	1505-AQN5	**34F727**
Flush Mount	0.15A @ 120VAC, 0.15A @ 24VAC/DC	25 to 50 lb.	7/32"	1 27/32"	4⅝"	1509-AQN5	**34F728**
Short Arm	—	—	—	1⅝"	—	CS2595-5	**34F729**
Long Arm	—	—	—	2⅝"	—	CS2598-5	**34F730**
LCN Brand							
Surface Mount	12VDC, 24VAC/DC, 120VAC	35 lb.	2½"	4⅛"	4⅝"	SEM7830 AL	**40GN68**
Recessed Mount	0.02A @ 24VAC/DC, 120VAC, 0.03A @ 12VDC	35 lb.	1"	2⅝"	4⅝"	SEM7840 AL	**40GN69**

VON DUPRIN® | hes ASSA ABLOY | ALARM CONTROLS ASSA ABLOY

Electric Strikes

Electric strikes control access by either holding or releasing a latch bolt. Hard-wire electric strikes connect to a power source and a controller (typically a push-button switch, keypad, or card reader).

A fail-safe electric strike needs power to remain locked.

A fail-secure electric strike remains locked even without power. Device prevents entry; a doorknob or lever on the lock allows for egress.

Rectifiers—Convert AC power to DC.



No. 4WY66



No. 4WY69



No. 4WY71



No. 2MXN2

Description	Failure Mode	Input Voltage	Door Frame Type*	Faceplate Dim. W	Faceplate Dim. H	Faceplate Dim. D	Pull Force	Grade	Brand	Mfr. Model	Item No.
Cylindrical Locksets											
Medium-Duty	Fail Secure	12/24VDC	Aluminum/Hollow Metal/Wood	1 7/16", 1 1/4", 1 1/16"	7 15/16", 4 7/8"	3/32"	1000 lb.	1	Von Duprin	5100-3FP SP28	**4WY66**
Medium-Duty	Fail Safe or Fail Secure	Electric Strike,Medium-Duty,12/24VDC	Metal/Wood	1 1/4"	4 7/8"	1 11/16"	1500 lb.	1	Hes	8300C	**49U739**
Medium-Duty	Fail Safe or Fail Secure	Electric Strike,Medium-Duty,12/24VDC	Metal/Wood	1 1/4"	4 7/8"	1 11/16"	1500 lb.	1	Hes	8000C	**49U738**
Heavy-Duty	Fail Safe or Fail Secure	12VDC	Hollow Metal	1 1/4"	4 7/8"	1 11/16"	1500 lb.	1	Hes	7501-630-12VDC	**2MXL6** †
Cylindrical Locksets and Mortise Locksets (Without Deadbolts)											
Heavy-Duty	Fail Secure	24VDC	Aluminum/Hollow Metal/Wood	1 1/4"	4 7/8"	1/8"	1500 lb.	1	Von Duprin	6211 24V US32D CON	**4WY69** †
Heavy-Duty	Fail Secure	12VDC	Aluminum/Hollow Metal/Wood	1 1/4"	4 7/8"	1/8"	1500 lb.	1	Von Duprin	6211 12V US32D CON	**4WY70** †
Heavy-Duty	Fail Secure	24VDC	Aluminum/Hollow Metal/Wood	1 3/8"	9"	5/32"	1500 lb.	1	Von Duprin	6215 24V US32D CON	**4WY71** †
Mortise Locksets											
Cylindrical Locks and Mortise Locks Without a Deadbolt	Fail Secure	Electric Strike,Heavy-Duty,12/24VDC	Metal/Wood	1 1/4"	4 7/8"	1 11/16"	3070 lb.	1	Hes	1006CLB	**49U737**
Medium-Duty	Fail Safe	24VAC/12VDC	Aluminum/Hollow Metal/Wood	1 1/4"	4 7/8"	3/32"	1000 lb.	2	Alarm Controls	AES-200	**48ZW70**
Rim Type Exit Devices											
Heavy-Duty	Fail Secure	24VDC	Aluminum/Hollow Metal/Wood	1 5/8"	9"	3/4"	1500 lb.	1	Von Duprin	6112 24V US32D CON	**4WY67** †
Heavy-Duty	Fail Secure	12VDC	Aluminum/Hollow Metal/Wood	1 5/8"	9"	3/4"	1500 lb.	1	Von Duprin	6112 12V US32D CON	**4WY68** †
Heavy-Duty	Fail Secure	12/24VDC	Metal/Wood	—	—	—	3070 lb.	1	Hes	1006 630	**28XN34**
Heavy-Duty	Fail Safe or Fail Secure	12/24VAC/DC	Metal/Wood	1 1/4"	4 7/8"	1/8"	1500 lb.	1	Hes	5000C-12/24D-630	**49AV53**
Heavy-Duty	Fail Safe or Fail Secure	12/24VDC	Metal/Wood	1 3/4"	9"	3/4"	2000 lb.	1	Hes	9600 629	**45DJ77**
Heavy-Duty	Fail Safe or Fail Secure	24VAC/12VDC	Aluminum/Hollow Metal/Wood	1 1/4"	4 7/8"	1/8"	1500 lb.	1	Alarm Controls	AES-100	**48ZW69**
Heavy-Duty	Fail Safe or Fail Secure	12/24VDC	Metal/Wood	1 3/4"	9"	1/2"	1500 lb.	1	Hes	9400-12/24D-630	**49AV57**
Heavy-Duty	Fail Safe or Fail Secure	24VDC	Aluminum	1 3/4"	9"	1/2"	1000 lb.	2	Hes	7000-24-789S-626-GR	**2MXL3** ‡
Heavy-Duty Surface-Mount	Fail Safe or Fail Secure	12/24VDC	Hollow Metal/Wood	1 3/4"	9"	3/4"	1500 lb.	1	Hes	9600-630-GR	**2MXN2** ‡
Heavy-Duty Surface-Mount	Fail Secure	12/24VDC	Hollow Metal/Wood	1 3/4"	9"	3/4"	1500 lb.	1	Hes	9500-630-GR	**2MXN3** †
Rectifiers											
Wire-In	—	35V, 2A	—	—	—	—	—	—	Hes	2001-1	**2MXK9**
Plug-In	—	35V, 1A	—	—	—	—	—	—	Hes	2000	**2MXN7**

** AL (aluminum), HM (hollow metal). † Fire-rated, stainless steel, and UL 1030 burglary-resistant. ‡ Stainless steel and burglary-resistant.*

Narrow-Stile Electric Strikes, Grade 1

Adams Rite ASSA ABLOY

- 1500-lb. holding force
- ½" bolt throw
- Case size: 1" x 3⅜" x 1⅝"D
- Strike opening: ⅝" x 1 7/16" x ½"D

Fail-secure strikes fit in frames for aluminum or wood doors in storefronts and other commercial and retail applications. Strikes exceed 500,000 cycles and 70 ft.-lb. dynamic force. Series 7130 strikes are for use when converting from an Adams Rite MS® pivoted-bolt deadlock to a deadlatch.

Finish	Faceplate Height	Input Voltage	Mfr. Model	Item No.
For Aluminum Doors				
Satin Aluminum	4⅞"	24VAC	7100-540-628-00	**2EUT8**
Dark Bronze Anodized	4⅞"	24VAC	7100-540-313-00	**2EUT9**
Satin Aluminum	4⅞"	24VDC	7100-510-628-00	**2EUU1**
Dark Bronze Anodized	4⅞"	24VDC	7100-510-313-00	**2EUU2**
Satin Aluminum	6⅞"	24VAC	7130-540-628-00	**2EUU7**
Dark Bronze	6⅞"	24VAC	7130-540-313-00	**2EUU8**
Satin Aluminum	6⅞"	24VDC	7130-510-628-00	**2EUU9**
Dark Bronze	6⅞"	24VDC	7130-510-313-00	**2EUV1**
Clear Anodized	4⅞"	12/24VAC/DC	7400 X 628	**20UM66**
For Wood/Hollow Metal Doors				
Satin Aluminum	4⅞"	24VAC	7140-540-628-00	**2EUU3**
Dark Bronze Anodized	4⅞"	24VAC/12VDC	7140-540-313-00	**2EUU4**
Satin Aluminum	4⅞"	24VDC	7140-510-628-00	**2EUU5**
Dark Bronze Anodized	4⅞"	24VDC	7140-510-313-00	**2EUU6**



No. 2EUT8



No. 2EUU8



No. 4GD90



No. 1RAD7



No. 5LAA3

SCHLAGE
SECURITRON
ASSA ABLOY
VON DUPRIN®

Push Buttons and Power Transfers

Easy-to-install and operate. Multiple button configuration and finish options provide enhanced architectural appeal.

Description	Mfr. Model	Brand	Item No.
Standard Pushbutton Station			
Standard "Exit" Push Button, Red "Exit"	701RD EX ILL	Schlage Electronics	**4GD90**
Standard Pushbutton			
Standard Push Button, Red Button	623RD	Schlage Electronics	**1RAD6**
Standard Push Button, Red ADA-Compliant Button	625RD	Schlage Electronics	**1RAD8**
Standard Push Button, Red	701RD	Schlage Electronics	**1RAE2**
Push to Exit Button			
Push-to-Exit Button, Red "Push-to-Exit" Button	623RD EX	Schlage Electronics	**1RAD7**
Standard Push Button, Red "Push-to-Exit" Button, ADA Compliant, Momentary Contact	625RD EX	Schlage Electronics	**1RAD9**
Momentary, S.G., DPST, Illuminated w/ Red/Grn Lens	PB	Securitron	**5LAA3**
Momentary, Single Gang, Grn/Red/Handicap	PB2	Securitron	**5XTD0**
Momentary, Single Gang, Grn/Red Lens	PB3E	Securitron	**5LAA5**
Momentary, Narrow Grn/Red Lens	PB3EN	Securitron	**5LAA6**
30 Sec. Timer - SG, Grn/Red/Handicap	EEB2	Securitron	**5LAA1**
30 Sec. Timer - Narrow Stile, Grn/Red	EEB3N	Securitron	**5LAA2**
Extreme-Duty Pushbutton			
Extreme-Duty Push Button, Aluminum, Momentary Contact	631AL	Schlage Electronics	**1RAE1**
Exit Motion Sensor			
Exit Motion Sensor, Plastic	XMS	Securitron	**5XTA9**
Electric Power Transfer Wire			
Electric Power Transfer Wire	EPT10 CON SP28	Von Duprin	**1RAK6**
Door Power Cord			
Door Power Cord, 12"	788 12	Schlage Electronics	**1RAF1**



No. 45AX47



No. 3HEP4

LCN®

Push Plate Actuator

Type	Switch Action	Button Dia.	Brand	Mfr. Model	Item No.
Panther Switch					
Square	Momentary/SPDT	4¾"	Bea	10EMS4751	**45AX43**
Push Plate Actuator					
Surface Mounted	Instant Open	—	Lcn	8310-853T	**3HEP2**
Surface Mounted	Instant Open	6"	Lcn	8310-852T	**3HEN9**
Square Switch					
Round	Momentary/SPDT	6"	Bea	10PBR1	**45AX26**
Square	Momentary/SPDT	4½"	Bea	10PBS451	**45AX47**
Square	Momentary/SPDT	4¾"	Bea	10PBS1	**45AW69**
Square	Momentary/SPDT	4½"	Bea	10PBS45POD	**45AX29**
Square	Momentary/SPDT	4½"	Bea	10PBS45	**45AX06**
Wireless Push Plate Actuator					
Square 4 ¾, Surface Mounted Actuator	Instant Open	—	Lcn	8310-853TWP	**4AYA5**
Surface Mounted	Instant Open	—	Lcn	8310-3818TWS	**3HEP4**
Surface Mounted	Instant Open	6"	Lcn	8310-852TWP	**3HEP1**
Wireless Receiver					
1 Channel, With Sequencing	—	—	Lcn	8310-865	**3HEP3**



Emergency Exit



Emergency Power Off



Emergency



Exit



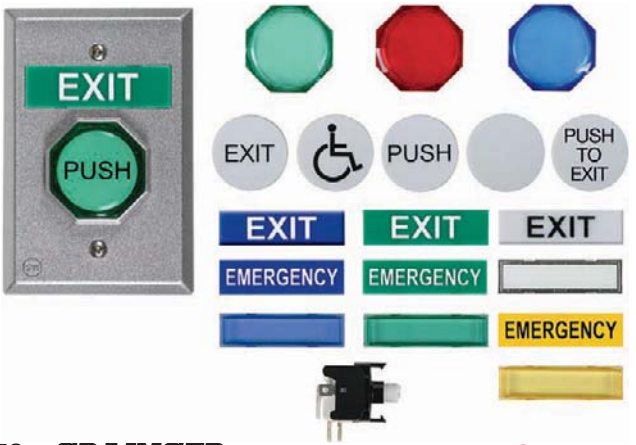
Fuel Pump Shutdown

Push Buttons

STI Safety Technology International

Type	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Emergency Exit Push Button					
Key-To-Activate	**52CG10**	**52CG02**	—	—	—
Key-To-Reset	**52CG09**	**52CG01**	—	—	—
Momentary Mushroom	**52CG54**	**52CG44**	—	—	—
Pneumatic Adjustable Timer	**52CG11**	**52CG03**	—	—	—
Turn-To-Reset	**52CG12**	**52CG04**	—	—	—
Emergency Power Off Push Button					
Key-To-Activate	—	—	—	**52CG22**	**52CG18**
Key-To-Reset	—	—	—	**52CG21**	**52CG17**
Momentary Mushroom	—	—	—	**52CG68**	**52CG63**
Turn-To-Reset	—	—	—	**52CG24**	**52CG20**

Type	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Emergency Push Button					
Key-To-Activate	**52CG06**	—	**52CF90**	—	—
Key-To-Reset	**52CG05**	—	**52CF89**	—	—
Momentary Mushroom	**52CG49**	—	**52CG30**	—	—
Pneumatic Adjustable Timer	**52CG07**	—	—	—	—
Turn-To-Reset	**52CG08**	—	**52CF92**	—	—
Exit Push Button					
Key-To-Activate	—	**52CF97**	—	—	—
Key-To-Reset	—	**52CF96**	—	—	—
Momentary Mushroom	—	**52CG39**	—	—	—
Pneumatic Adjustable Timer	—	**52CF98**	—	—	—
Turn-To-Reset	—	**52CF99**	—	—	—
Fuel Pump Shut-Down Push Button					
Key-To-Activate	—	—	**52CF94**	—	**52CG14**
Key-To-Reset	—	—	**52CF93**	—	**52CG13**
Momentary Mushroom	—	—	**52CG35**	—	**52CG15**
Turn-To-Reset	—	—	**52CF95**	—	**52CG16**



STI Safety Technology International

Universal Push-Button Kit and Latching/Timer Module

Kit features cast-aluminum plate, illuminated message plate, and button. Translucent lenses allow for custom labels. Includes 2 Form "C" contacts and 300 combos.

Use latching timer as a latching module for momentary buttons. Fail Safe and Fail Secure operation modes. Digital timing circuit is 15, 30, 45 sec., or indefinitely. 12/24VAC/DC operation, 3A at 30VDC 125VAC.

Description	Mfr. Model	Item No.
Universal Push Button Kit	UB-1	**2KFK2**
STI Latching/Timer Module	LT-1	**4AGC2**

Digital Single Gang Keypad

SECURITRON / ASSA ABLOY

- 99 user code

Designed for releasing any electric lock. Use in low- to medium-security applications. Features stainless steel plate with plastic backbox. Red/green/yellow LEDs function as indicators and programming prompts. Indoor use.

Description	Voltage	W	H	Mfr. Model	Item No.
12 Button Illuminated Digital Access Keypad, Single Gang	30 VDC or 300 VAC Switched Voltage	2¾"	4½"	DK-12	**10A459**



Digital Keypad Systems

SECURITRON / ASSA ABLOY

- 59 user code
- Weather-resistant; operating temp. of -22° to 158°F

Vandal-resistant, 2-pc. system is designed to control electric locks. Feature narrow-stile cast stainless steel 10-digit keypad and remotely mounted CPU board. Include 3 LEDs and bell button.

Description	Voltage	W	H	Mfr. Model	Item No.
Access Control Keypad	12 or 24 AC/DC	1½"	7"	DK-26SS	**5KZT7**
Wiegand Output Access Control Keypad	12 or 24 AC/DC	1½"	7"	DK37WSS	**5KZT8**



No. 5KZT7

Enclosures for Keypads, Buttons, and Light Switches

STI Safety Technology International

Multipurpose Keypad and Push-Button Enclosures— Polycarbonate enclosures protect against weather, vandalism, and theft. No. 3FVR4 is smoke-colored to help guard against password theft.

Flip-Up Polycarbonate Protectors—Rugged enclosures help protect keypads and push-button locksets from weather, vandalism, and theft. Easy to install.

Indoor/Outdoor Covers— Polycarbonate; include gaskets and mounting hardware. Large interior space protects dual-action pull stations, keypads, intercoms, push buttons, electrical switches, and duplex plugs.

Description	H	W	D	Color	Std.	Mfr. Model	Item No.
Multipurpose Keypad and Push Button Enclosures							
Protective Cabinet	14½"	12½"	6½"	Clear	UL, cUL	STI-7530	**3FVR1**
NEMA 4X Protective Cabinet	10⅞"	8⅞"	3⅝"	Clear	UL, cUL	STI-7520	**3FVP9**
Protective Cover	6¾"	8¾"	5"	Smoke	UL, cUL	STI-7505	**3FVR4**
Without Alarm	4 15/32"	3 9/32"	1 9/32"	Clear	—	STI-6519	**45YP74**
Flip-Up Polycarbonate Protectors							
Universal Stopper Cover	4¾"	8¼"	1 63/64"	Clear	UL, cUL, ADA	STI-7700	**54JF51**
Protective Cover For Biometrics	3"	3⅞"	2 1/16"	Clear	UL, cUL	STI-6514	**3FVR2**
Protective Cover For Keypads	3¼"	3⅝"	2"	Clear	UL CUL ADA	STI-6516	**3FVR3**
Indoor/Outdoor Pull Station Covers							
Without Alarm	8 5/32"	5 7/16"	2 21/32"	Clear	UL, cUL	STI-13000NC	**5AFX7**
Without Alarm, Universal Stopper	6"	4⅞"	3 1/64"	Clear/Red/Gray	UL S2466, ADA	STI-14200NR-Z003	**45YP77**
Without Alarm, Fire Label	8 5/32"	5 7/16"	2 21/32"	Red	UL, cUL	STI-13010FR	**5AFX8**
Without Alarm	10 13/64"	7 13/64"	5½"	Clear	UL, cUL	STI-3150	**2KFK5**
Without Alarm	8 5/32"	5 7/16"	4"	Clear	UL, cUL	STI-13200NC	**5AFY4**
Wire Cage	7⅓"	6⅛"	3⅓"	White	UL and cUL	STI-9705	**16D841**
Indoor Pull Station Covers							
Without Alarm	8⅞"	6 13/16"	3 3/16"	Red/Clear	UL, cUL, ADA	STI-1200	**1DPD6**
With Alarm	8⅞"	6 13/16"	3 3/16"	Red/Clear	UL, cUL, ADA, FM, NY to BSA	STI-1100	**1DPD7**
With Alarm	8⅞"	6 13/16"	5 3/16"	Clear	UL, cUL	STI-1130	**2KFK3**
Without Alarm	8⅞"	6 13/16"	5 3/16"	Clear	UL, cUL	STI-1230	**2KFK4**
Indoor/Outdoor Covers							
Enclosed Backbox	8 5/32"	5 7/16"	4"	Clear/Black	UL, cUL	STI-13400NK	**5AFY5**



Protective Cabinet No. 3FVR1



Indoor/ Outdoor Pull Station Cover w/ out Alarm No. 5AFY4

Plug-in Power Supplies

SECURITRON / ASSA ABLOY

Ideal for powering a wide range of DC devices. Wall-mounted. Include internal thermal fuse and 16-ft. output cable.

Description	Input Voltage	Output Current (Amps)	Mfr. Model	Item No.
12VDC Plug-In Power Supply	120	700mA	PSP-12	**5KZX8**
24VDC Plug-In Power Supply	120	350mA	PSP-24	**5KZX9**



No. 5KZX8

Linear Power Supplies

SECURITRON / ASSA ABLOY

Allow for wire runs without the use of conduit from power supply to door. Use with voltage-sensitive safety and security components, including card readers, motion sensors, and DC cameras. Also recommended for where an interface with a fire alarm system or battery backup (internal charging) is needed. Use with sealed lead-acid batteries (not included).

Description	Input Voltage	Voltage Output	No. of Outputs	Encl. Width (in.)	Encl. Height (in.)	Encl. Depth (in.)	Mfr. Model	Item No.
Dual Voltage Boxed Power Supply	120VAC	12 or 24VDC	1	9	12	4	BPS-12/24-1	**5KZX3**
12V Boxed Power Supply	120VAC	12VDC	4	14	14	4	BPS-12-45	**5KZX4**
24V Boxed Power Supply	120VAC	24VDC	4	14	14	4	BPS-24-3	**5KZX6**
24V Boxed Power Supply	120VAC	24VDC	8	15	18	6	BPS-24-6	**5KZX7**



No. 5KZX3

Lock Functions



PASSAGE
Both outside and inside handles are always unlocked and free-turning. No keys are required.

PRIVACY
Inside handle push button locks the outside handle. Emergency release is on the outside knob. Closing the door or turning the inside handle releases the button.

ENTRANCE
Inside handle push button locks the outside handle. Outside handle opens with a key or by turning the inside handle.

STOREROOM
Inside handle is always unlocked and free-turning. Outside handle is always locked and unlocks with a key.

CLASSROOM
Inside handle is always unlocked and free-turning. Outside handle is free-turning except when it is locked by a key.

EXIT
Deadlocking latchbolt is activated by the inside knob. Nonremovable blank plate is on the outside.

DUMMY
For applications where a latch bolt is not needed.

TownSteel® Architectural Hardware MFG

Classroom Intruder Lockdown w/ LED Indicator, Grade 1

- Backset: 2¾"
- Door thickness: 1¾

Secure against unauthorized outside entry using a simple remote control unit button. Red LEDs both inside and out signify a lockdown is in progress. A designated individual can keep the room in lockdown until a lockdown cancellation code is entered from the outside. May be opened from the inside. During lockdown, a user code, office code, or key override may be used to gain access to the room.

Function	Series	Finish	Handle Type	Mfr. Model	Item No.
TownSteel® Cylindrical Classroom Lock with Keypad, Grade 1					
Programable Function Control	9000	Satin Chrome	Rigid Lever Sentinel	XCE-9010-S-626	**35DY52**
			Rigid Lever Quest	XCE-9010-Q-626	**35DY53**
			Rigid Lever Gala	XCE-9010-G-626	**35DY54**
		Oil Rubbed Bronze	Rigid Lever Sentinel	XCE-9010-S-613	**35DY55**
			Rigid Lever Quest	XCE-9010-Q-613	**35DY56**
			Rigid Lever Gala	XCE-9010-G-613	**35DY57**



No. 35DY52



No. 22PE91

MARKSUSA®

Classroom Lever Lockset, Grade 1

- Backset: 2¾"
- Strike: ASA, 4⅞"
- Door thickness: 1¾"

Designed for added safety in the classroom. Teachers can lock and unlock the door from the exterior, with the interior always open. In emergency situations, the teacher can lock the classroom from the inside without having to step into the hallway to lock the outside handle. Zinc handle with satin chrome finish. Include hardware. DB Series locks come with a 6-pin cylinder and 2 keys. RDB Series locks accept an IC core cylinder (Best® size). 195 models have an American-styled lever, while 295 models have a crescent lever. No, 31EX08 latches by lever on either side except when outside lever is locked from inside or outside by key. When locked, exterior key will retract latchbolt. Outside key locks or unlocks exterior lever. Inside key is single acting in one direction and will lock exterior lever only; will not unlock exterior lever. Auxiliary latch deadlocks latch. Inside always free for egress.

Function	Series	Mfr. Model	Item No.
Classroom	DB	195DB/26D	**22PE91**
Classroom	RDB	195RDB/26D	**22PE92**
Classroom	DB	295DB/26D	**22PE93**
Classroom	RDB	295RDB/26D	**22PE94**
Classroom	LA318GJ	LA318GJ/32D	**31EX08**

Description	Item No.
Access Control Keypad, Black	**22PE95**
Access Control Keypad w/ Rim Panic, Black	**22PE96**



No. 35HU03



No. 35HU09

GA GRAINGER APPROVED

Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: 1¼" x 4⅞"
- Door thickness: 1¾" x 2¼"

Dummy locks feature a pull lever on one side with no mechanical operation. Entrance locks are designed with a latchbolt that is operated by lever from either side or key in the outside lever. The outside lever is locked by push/turn button on the inside.

Key Type	Keyway Type	Finish	Mfr. Model	Item No.
Dummy				
Not Keyed	None	Satin Chrome	GT211PHL626234ASA	**35HU03**
Not Keyed	None	Satin Chrome	GT211BSN626234ASA	**35HU04**
Not Keyed	None	Satin Chrome	GT211MIA626234ASA	**35HU05**
Entrance				
Not Keyed	None	Satin Chrome	GT116PHL626234ASASFL	**35HU06**
Not Keyed	None	Satin Chrome	GT116BSN626234ASASFL	**35HU07**
Different	Schlage SC4	Oil Rubbed Bronze	GT116PHL613234ASASCC	**35HU08**
Not Keyed	None	Oil Rubbed Bronze	GT116PHL613234ASASFL	**35HU09**
Different	Schlage SC4	Oil Rubbed Bronze	GT116BSN613234ASASCC	**35HU10**
Not Keyed	None	Oil Rubbed Bronze	GT116BSN613234ASASFL	**35HU11**

SCHLAGE

Lever Locksets, Grade 1 and 2

- Backset: 2¾"
- Strike: 1¼" x 4⅞", square corner, no box
- Door thickness: 1⅜" to 2⅛"
- Square corner faceplate: 1⅛" x 2¼"

Include 1" housing dia., ½" throw, and 6-pin solid brass cylinder. C123 keyway. 2 nickel silver keys per lock.

Grade 1, ND Series levers are heavy-duty cylindrical locks. Antimicrobial coating 626AM inhibits bacteria growth.

Grade 2, Elan Series are light-duty residential locks.

Grade 2, AL Series levers are standard-duty commercial locks.

Note: For freewheeling lever models that protect against abusive rotational force, go to grainger.com® and search "freewheeling lever".


Jupiter


Neptune


Saturn


Rhodes


Sparta


Athens

Style	Function	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	SATIN CHROME LESS SFIC CYLINDER Mfr. Model	SATIN CHROME LESS SFIC CYLINDER Item No.	ANTIMICROBIAL SATIN CHROME Mfr. Model	ANTIMICROBIAL SATIN CHROME Item No.
Grade 2, Elan Series							
F Elan	Passage	F10 ELA 626	**36Z181**	—	—	—	—
F Elan	Privacy	F40 ELA 626	**36Z204**	—	—	—	—
Grade 2, AL Series							
AL Jupiter	Entry	AL53PD JUP 626 C123	**36Z049**	—	—	—	—
AL Jupiter	Privacy	AL40S JUP 626	**36Z038**	—	—	—	—
AL Jupiter	Classroom	AL70PD JUP 626 C123	**36Z060**	—	—	—	—
AL Jupiter	Storeroom	AL80PD JUP 626 C123	**36Z071**	—	—	—	—
AL Neptune	Entry	AL53PD NEP 626 C123	**36Z052**	AL53BD NEP 626	**36Z045**	—	—
AL Neptune	Passage	AL10S NEP 626	**36Z032**	—	—	—	—
AL Neptune	Privacy	AL40S NEP 626	**36Z041**	—	—	—	—
AL Neptune	Classroom	AL70PD NEP 626 C123	**36Z063**	AL70BD NEP 626	**36Z056**	—	—
AL Neptune	Storeroom	AL80PD NEP 626 C123	**36Z074**	—	—	—	—
AL Saturn	Entry	AL53PD SAT 626 C123	**36Z055**	AL53BD SAT 626	**36Z046**	—	—
AL Saturn	Passage	AL10S SAT 626	**36Z035**	—	—	—	—
AL Saturn	Privacy	AL40S SAT 626	**36Z044**	—	—	—	—
AL Saturn	Storeroom	AL80PD SAT 626 C123	**36Z077**	AL80BD SAT 626	**36Z068**	—	—
AL Saturn	Classroom	—	—	AL70BD SAT 626	**36Z057**	—	—
Grade 1, ND Series							
ND Rhodes	Entry	ND53PD RHO 626 C123 KA	**36Z310**	ND53BD RHO 626	**36Z303**	ND53PD RHO 626AM C123	**36Z311**
ND Rhodes	Passage	ND10S RHO 626	**36Z284**	—	—	ND10S RHO 626AM	**36Z285**
ND Rhodes	Privacy	ND40S RHO 626	**36Z295**	—	—	ND40S RHO 626AM	**36Z296**
ND Rhodes	Classroom	ND70PD RHO 626 C123	**36Z324**	ND70BD RHO 626	**36Z317**	ND70PD RHO 626AM C123	**36Z325**
ND Rhodes	Storeroom	ND80PD RHO 626 C123	**36Z346**	ND80BD RHO 626	**36Z339**	—	—
ND Sparta	Entry	ND53PD SPA 626 C123	**36Z314**	ND53BD SPA 626	**36Z304**	—	—
ND Sparta	Passage	ND10S SPA 626	**36Z288**	—	—	ND10S SPA 626AM	**36Z289**
ND Sparta	Privacy	ND40S SPA 626	**36Z299**	—	—	ND40S SPA 626AM	**36Z301**
ND Sparta	Classroom	ND70PD SPA 626 C123	**36Z328**	ND70BD SPA 626	**36Z318**	—	—
ND Sparta	Storeroom	ND80PD SPA 626 C123	**36Z350**	ND80BD SPA 626	**36Z340**	—	—
ND Athens	Entry	ND53PD ATH 626 C123	**36Z307**	ND53BD ATH 626	**36Z302**	—	—
ND Athens	Passage	ND10S ATH 626	**36Z281**	—	—	—	—
ND Athens	Privacy	ND40S ATH 626	**36Z292**	—	—	—	—
ND Athens	Classroom	ND70PD ATH 626 C123	**36Z321**	—	—	—	—
ND Athens	Storeroom	ND80PD ATH 626 C123	**36Z343**	—	—	—	—
AL Series, Grade 2							
AL Jupiter	Passage	AL10S JUP 626	**36Z029**	—	—	—	—
AL Angled	Entry	AL53PD SAT 626	**28XV45**	—	—	—	—

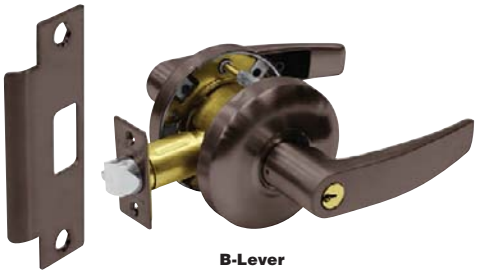
Lever Locksets, Grade 1 and 2

SARGENT
ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼", ANSI, curved lip
- Grade 1 door thickness: 1¾" to 2"
- Grade 2 door thickness: 1⅜" to 1¾"
- Include 2 nickel silver keys per lock

Cylindrical lever locksets have solid cast levers and 2¼" x 1⅛" faceplate. Nonhanded. ANSI 115.2 (161) modified door prep. Grade 1 levers have heavy-gauge parts and install quickly. Grade 2 levers have a brass latch bolt for durability.


L-Lever


B-Lever

Style	Function	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	OIL-RUBBED BRONZE Mfr. Model	OIL-RUBBED BRONZE Item No.
Grade 1					
L-Lever	Entry	28-10G05 LL 26D	**32J172**	28-10G05 LL 10B	**32J182**
L-Lever	Passage	28-10U15 LL 26D	**32J174**	28-10U15 LL 10B	**32J184**
L-Lever	Privacy	28-10U65 LL 26D	**32J175**	28-10U65 LL 10B	**32J185**
L-Lever	Classroom	28-10G37 LL 26D	**32J173**	28-10G37 LL 10B	**32J183**
L-Lever	Storeroom	28-10G04 LL 26D	**32J171**	28-10G04 LL 10B	**32J181**
B-Lever	Entry	28-10G05 LB 26D	**32J177**	28-10G05 LB 10B	**32J187**
B-Lever	Passage	28-10U15 LB 26D	**32J179**	28-10U15 LB 10B	**32J189**
B-Lever	Privacy	28-10U65 LB 26D	**32J180**	28-10U65 LB 10B	**32J190**
B-Lever	Classroom	28-10G37 LB 26D	**32J178**	28-10G37 LB 10B	**32J188**
B-Lever	Storeroom	28-10G04 LB 26D	**32J176**	28-10G04 LB 10B	**32J186**
Grade 2					
L-Lever	Entry	28-65G05 KL 26D	**32J192**	28-65G05 KL 10B	**32J203**
L-Lever	Passage	28-65U15 KL 26D	**32J194**	28-65U15 KL 10B	**32J205**
L-Lever	Privacy	28-65U65 KL 26D	**32J195**	28-65U65 KL 10B	**32J206**
L-Lever	Classroom	28-65G37 KL 26D	**32J193**	28-65G37 KL 10B	**32J204**
L-Lever	Storeroom	28-65G04 KL 26D	**32J191**	28-65G04 KL 10B	**32J202**
B-Lever	Entry	28-65G05 KB 26D	**32J197**	28-65G05 KB 10B	**32J208**
B-Lever	Passage	28-65U15 KB 26D	**32J199**	28-65U15 KB 10B	**32J210**
B-Lever	Privacy	28-65U65 KB 26D	**32J201**	28-65U65 KB 10B	**32J211**
B-Lever	Classroom	28-65G37 KB 26D	**32J198**	28-65G37 KB 10B	**32J209**
B-Lever	Storeroom	28-65G04 KB 26D	**32J196**	28-65G04 KB 10B	**32J207**



Newport CL3300 Series



Newport CL3500 Series



Newport CL3800 Series

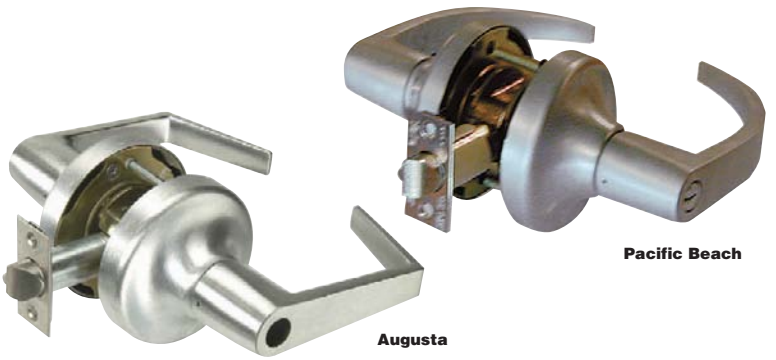
Lever Locksets, Grade 1 and 2

Corbin Russwin ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼", ANSI, curved lip
- Door thickness: 1¾" to 2" for CL3300 series, 1⅜" to 1¾" for CL3500 and CL3800 series

For use with ANSI 115.2 (161) modified door prep. Passage and Privacy locksets do not have cylinders; all other locksets have a 6-pin cylinder with L4 keyway that is keyed different and include 2 keys. CL3300 Series locksets are heavy-duty. They feature EZ-install components, Lever Release™ lever design for reduced breakage, heavy-duty return springs, and stainless steel latch bolt for increased durability and security. CL3500 Series locksets are nonhanded and have independent lever return springs for reduced lever sag, solid cast levers for increased strength, and through-bolt cylindrical chassis to ensure proper alignment. CL3800 Series locksets Lever Release™ lever design, solid cast levers for increased service life, through-bolts for solid attachment, and independent lever return springs.

		SATIN CHROME		OIL-RUBBED BRONZE	
Style	Function	Mfr. Model	Item No.	Mfr. Model	Item No.
Grade 1 CL3300 Series					
Newport	Entry	CL3351 NZD 626	**32J232**	CL3351 NZD 10B	**32J238**
	Passage	CL3310 NZD 626	**32J235**	CL3310 NZD 10B	**32J241**
	Privacy	CL3320 NZD 626	**32J236**	CL3320 NZD 10B	**32J242**
	Classroom	CL3355 NZD 626	**32J234**	CL3355 NZD 10B	**32J240**
	Classroom	CL3352 NZD 626	**32J237**	CL3352 NZD 10B	**32J243**
	Storeroom	CL3357 NZD 626	**32J233**	CL3357 NZD 10B	**32J239**
	Storeroom	CL3357 NZD 626 LC	**28XW01**	—	—
Grade 1 CL3500 Series					
Newport	Entry	CL3551 NZD 626	**32J244**	CL3551 NZD 10B	**32J249**
	Passage	CL3510 NZD 626	**32J246**	CL3510 NZD 10B	**32J251**
	Privacy	CL3520 NZD 626	**32J248**	CL3520 NZD 10B	**32J253**
	Classroom	CL3555 NZD 626	**32J247**	CL3555 NZD 10B	**32J252**
	Storeroom	CL3557 NZD 626	**32J245**	CL3557 NZD 10B	**32J250**
Grade 2 CL3800 Series					
Newport	Entry	CL3851 NZD 626	**32J254**	CL3851 NZD 10B	**32J259**
	Passage	CL3810 NZD 626	**32J255**	CL3810 NZD 10B	**32J260**
	Privacy	CL3820 NZD 626	**32J256**	CL3820 NZD 10B	**32J261**
	Classroom	CL3855 NZD 626	**32J258**	CL3855 NZD 10B	**32J263**
	Storeroom	CL3857 NZD 626	**32J257**	CL3857 NZD 10B	**32J262**



Pacific Beach

Augusta

5000 Series Lever Locksets, Grade 1 and 2

Yale

- Backset: 2¾"
- Strike: 4⅞" x 1¼" x 1¼" ANSI

Nonhanded, field reversible. Zinc dichromate plating resists corrosion. Keyed different. Heavy-Duty 5400LN series includes Free Wheeling™ design that helps minimize vandalism by allowing the lever to rotate freely when locked. For 1¾"- to 2"-thick doors. Standard-Duty 5300LN series is for 1⅜"- to 1¾"-thick doors. Models without cylinders accept both Yale and Schlage cylinders. MicroShield® antimicrobial coating inhibits the growth of bacteria and lasts the lifetime of the finish.

		DULL CHROME		ANTIMICROBIAL DULL CHROME		DULL CHROME LESS CYLINDER		DULL CHROME LESS SFIC CYLINDER	
Style	Function	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
5400LN Series, Grade 1									
5400LN Pacific Beach	Entry	PB5407LN	**3ZV59**	PB5407LN x YMS	**5VTE3**	S-PB5407LN	**1ABH4**	B-PB5407LN	**6HGX9**
5400LN Pacific Beach	Passage	PB55401LN	**3ZV53**	PB5401LN x YMS	**5VTE0**	—	—	—	—
5400LN Pacific Beach	Privacy	PB5402LN	**3ZV55**	PB5402LN x YMS	**5VTE1**	—	—	—	—
5400LN Pacific Beach	Classroom	PB5408LN	**3ZV61**	PB5408LN x YMS	**5VTE4**	S-PB5408LN	**1ABH5**	B-PB5408LN	**6HGY0**
5400LN Pacific Beach	Storeroom	PB5405LN	**3ZV57**	PB5405LN x YMS	**5VTE2**	S-PB5405LN	**1ABH3**	B-PB5405LN	**6HGY1**
5400LN Augusta	Entrance	AU5407LN	**5T706**	—	—	—	—	—	—
5400LN Augusta	Passage	AU5401LN	**5T700**	AU5401LN x YMS	**5VTD5**	—	—	—	—
5400LN Augusta	Classroom	AU5408LN	**3ZV37**	AU5408LN x YMS	**5VTD9**	S-AU5408LN	**1ABH2**	B-AU5408LN X 626	**1RM56**
5400LN Augusta	Storeroom	AU5405LN	**5T704**	AU5405LN x YMS	**5VTD7**	S-AU5405LN	**1ABG9**	B-AU5405LN	**1RM54**
5400LN Augusta	Entry	—	—	AU5407LN x YMS	**5VTD8**	S-AU5407LN	**1ABH1**	B-AU5407LN	**1RM55**
5400LN Augusta	Privacy	—	—	AU5402LN x YMS	**5VTD6**	—	—	—	—
5300LN Series, Grade 2									
5300LN Pacific Beach	Entry	PB5307LN	**3ZV49**	PB5307LN x YMS	**5VTF3**	S-PB5307LN	**1ABJ1**	B-PB5307LN	**6HGY2**
5300LN Pacific Beach	Passage	PB5301LN	**3ZV43**	PB5301LN x YMS	**5VTF0**	—	—	—	—
5300LN Pacific Beach	Privacy	PB5302LN	**3ZV45**	PB5302LN x YMS	**5VTF1**	—	—	—	—
5300LN Pacific Beach	Classroom	PB5308LN	**4ECD7**	PB5308LN x YMS	**5VTF4**	S-PB5308LN	**1ABJ2**	B-PB5308LN	**6HGY3**
5300LN Pacific Beach	Storeroom	PB5305LN	**3ZV47**	PB5305LN x YMS	**5VTF2**	S-PB5305LN	**1ABH9**	B-PB5305LN	**6HGY4**
5300LN Augusta	Entry	AU5307LN	**4LM29**	AU5307LN x YMS	**5VTE8**	S-AU5307LN	**1ABH7**	B-AU5307LN	**1RM52**
5300LN Augusta	Passage	AU5301LN	**4LM23**	AU5301LN x YMS	**5VTE5**	—	—	—	—
5300LN Augusta	Privacy	AU5302LN	**4LM25**	AU5302LN x YMS	**5VTE6**	—	—	—	—
5300LN Augusta	Classroom	AU5308LN	**3ZV51**	AU5308LN x YMS	**5VTE9**	S-AU5308LN	**1ABH8**	B-AU5308LN	**1RM53**
5300LN Augusta	Storeroom	AU5305LN	**4LM27**	AU5305LN x YMS	**5VTE7**	S-AU5305LN	**1ABH6**	B-AU5305LN X 626	**1RM51**

4000 Series Lever Locksets, Grade 1 and 2

Yale

- Backset: 2¾"
- Strike: 4⅞" x 1¼" x 1¼" ANSI
- Door thickness: 1⅜" to 1¾"

Nonhanded field reversible. 4700 Series locks have free-wheeling levers that rotate when locked.



Augusta



Pacific Beach

For keyed alike or master keying, call 1-800-GRAINGER (472-4643)

Description	Lockset Function	BRIGHT BRASS Mfr. Model	BRIGHT BRASS Item No.	DULL CHROME Mfr. Model	DULL CHROME Item No.	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	DARK BRONZE Mfr. Model	DARK BRONZE Item No.
Grade 1, 4700LN Series									
4700LN Augusta	Entrance	AU4707LN x 605	**5VRP6**	AU4707LN x 626	**5VRP5**	—	—	—	—
4700LN Augusta	Classroom	AU4708LN x 605	**5VRP8**	AU4708LN x 626	**5VRP7**	—	—	—	—
4700LN Augusta	Passage	AU4701LN x 605	**5VRP0**	AU4701LN x 626	**5VRN9**	—	—	—	—
4700LN Augusta	Privacy	AU4702LN x 605	**5VRP2**	AU4702LN x 626	**5VRP1**	—	—	—	—
4700LN Augusta	Storeroom	AU4705LN x 605	**5VRP4**	—	—	—	—	—	—
4700LN Augusta	Storeroom	—	—	AU4705LN x 626	**5VRP3**	—	—	—	—
4700LN Augusta, Less SFIC Cylinder	Entrance	—	—	B-AU4707LN x 626	**5VTF7**	—	—	—	—
4700LN Augusta, Less SFIC Cylinder	Classroom	—	—	B-AU4708LN x 626	**5VTF9**	—	—	—	—
4700LN Augusta, Less SFIC Cylinder	Storeroom	—	—	B-AU4705LN x 626	**5VTF5**	—	—	—	—
4700LN Pacific Beach	Entrance	PB4707LN x 605	**5VRR6**	PB4707LN x 626	**5VRR5**	—	—	—	—
4700LN Pacific Beach	Storeroom	PB4705LN x 605	**5VRR4**	PB4705LN x 626	**5VRR3**	—	—	—	—
4700LN Pacific Beach	Passage	PB4701LN x 605	**5VRR0**	PB4701LN x 626	**5VRP9**	—	—	—	—
4700LN Pacific Beach	Privacy	PB4702LN x 605	**5VRR2**	PB4702LN x 626	**5VRR1**	—	—	—	—
4700LN Pacific Beach	Classroom	PB4708LN x 605	**5VRR8**	PB4708LN x 626	**5VRR7**	—	—	—	—
4700LN Pacific Beach, Less SFIC Cylinder	Entrance	—	—	B-PB4707LN x 626	**5VTF8**	—	—	—	—
4700LN Pacific Beach, Less SFIC Cylinder	Classroom	—	—	B-PB4708LN x 626	**5VTG0**	—	—	—	—
4700LN Pacific Beach, Less SFIC Cylinder	Storeroom	—	—	B-PB4705LN x 626	**5VTF6**	—	—	—	—
4600CL Series, Grade 2									
4600CL Augusta	Passage	AU4601CL 605	**54TZ49**	—	—	AU4601CL 626	**54TZ50**	AU4601CL 613	**54TZ51**
4600CL Augusta	Privacy	AU4602CL 605	**54TZ52**	—	—	AU4602CL 626	**54TZ53**	AU4602CL 613	**54TZ54**
4600CL Augusta	Storeroom	AU4605CL 605	**54TZ55**	—	—	AU4605CL 626	**54TZ56**	AU4605CL 613	**54TZ57**
4600CL Augusta	Entrance, Office	AU4607CL 605	**54TZ58**	—	—	AU4607CL 626	**54TZ59**	AU4607CL 613	**54TZ60**
4600CL Augusta	Classroom	AU4608CL 605	**54TZ61**	—	—	AU4608CL 626	**54TZ62**	AU4608CL 613	**54TZ63**
4600CL Augusta	Storeroom	—	—	—	—	B-AU4605CL 626	**54TZ64**	—	—
4600CL Augusta	Entrance, Office	—	—	—	—	B-AU4607CL 626	**54TZ65**	—	—
4600CL Augusta	Classroom	—	—	—	—	B-AU4608CL 626	**54TZ66**	—	—
4600CL Pacific Beach	Entrance, Office	PB4607CL 605	**54TZ79**	—	—	PB4607CL 626	**54TZ80**	PB4607CL 613	**54TZ81**
4600CL Pacific Beach	Classroom	PB4608CL 605	**54TZ82**	—	—	PB4608CL 626	**54TZ83**	PB4608CL 613	**54TZ84**
4600CL Pacific Beach	Passage	PB4601CL 605	**54TZ70**	—	—	PB4601CL 626	**54TZ71**	PB4601CL 613	**54TZ72**
4600CL Pacific Beach	Privacy	PB4602CL 605	**54TZ73**	—	—	PB4602CL 626	**54TZ74**	PB4602CL 613	**54TZ75**
4600CL Pacific Beach	Storeroom	PB4605CL 605	**54TZ76**	—	—	PB4605CL 626	**54TZ77**	PB4605CL 613	**54TZ78**
4600CL Pacific Beach	Storeroom	—	—	—	—	B-PB4605CL 626	**54TZ67**	—	—
4600CL Pacific Beach	Entrance, Office	—	—	—	—	B-PB4607CL 626	**54TZ68**	—	—
4600CL Pacific Beach	Classroom	—	—	—	—	B-PB4608CL 626	**54TZ69**	—	—



Dane



Quantum



Less LSFIC Cylinder

Style	Function	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	SATIN CHROME, LESS SFIC CYLINDER Mfr. Model	SATIN CHROME, LESS SFIC CYLINDER Item No.
Grade 1 , T Series, For Door Thickness 1¾" to 2⅛"					
T Dane	Entry	T511CP6D D 626 KD	**36Z369**	T511BD D 626	**36Z366**
T Dane	Passage	T101S D 626	**36Z361**	—	—
T Dane	Privacy	T301S D 626	**36Z364**	—	—
T Dane	Classroom	T561CP6D D 626 KD	**36Z374**	T561BD D 626	**36Z371**
T Dane	Storeroom	T581CP6D D 626 KD	**36Z379**	T581BD D 626	**36Z376**
T Quantum	Entry	T511PD Q 626	**36Z370**	T511BD Q 626	**36Z367**
T Quantum	Passage	T101S Q 626	**36Z362**	—	—
T Quantum	Privacy	T301S Q 626	**36Z365**	—	—
T Quantum	Classroom	T561CP6D Q 626 C KWY	**36Z375**	T561BD Q 626	**36Z372**
T Quantum	Storeroom	T581CP6D Q 626 KD	**36Z380**	T581BD Q 626	**36Z377**
4000 Dane	Entry	—	—	T501BD D 626	**35YK73**
Grade 2, W Series, For Door Thickness 1⅜ to 1¾					
W Dane	Entry	W511CP6D D 626 KD	**36Z398**	W511BD D 626	**36Z395**
W Dane	Passage	W101S D 626	**36Z382**	—	—
W Dane	Privacy	W301S D 626	**36Z389**	—	—
W Dane	Classroom	W561CP6D D 626	**36Z408**	W561BD D 626	**36Z405**
W Dane	Storeroom	W581CP6D D 626	**36Z415**	W581BD D 626	**36Z412**
W Quantum	Entry	W511CP6D Q 626	**36Z404**	W511BD Q 626	**36Z396**
W Quantum	Passage	W101S Q 626	**36Z387**	—	—
W Quantum	Privacy	W301S Q 626	**36Z394**	—	—
W Quantum	Classroom	W561CP6D Q 626	**36Z411**	W561BD Q 626	**36Z406**
W Quantum	Storeroom	W581CP6D Q 626	**36Z420**	W581BD Q 626	**36Z413**

For keyed alike or master keying, call 1-800-GRAINGER (472-4643)

FALCON

Lever Locksets, Grade 1 and 2

- Square corner faceplate: 1⅛" x 2¼"

Include 1" housing dia., ½" throw, and 6-pin solid brass cylinder. Schlage Classic C keyway. Keyed different. 2 nickel silver keys per lock.

Grade 1, T Series levers are heavy-duty cylindrical locks designed for facilities that are subjected to high-traffic/high-abuse conditions. Thru-bolted through the door. Chassis is secured by interlocking antirotation plate. Free-wheeling levers.

Grade 2, W Series levers are for high-use commercial applications such as schools, offices, and high-end residential. Solid stops in the lock and heavy-duty construction of all operating parts are designed to prevent damage when subjected to excessive force. Feature small format interchangeable cores (SFICs) that are compatible with SFIC products from other manufacturers.



Lever Locksets, Grade 1 and 2

BEST

- Backset: 2¾"

Cylindrical chassis fit common door preparation. These locksets feature through-bolt mounting studs for increased torque resistance and quick rekeying with BEST interchangeable cores. Hub torque springs provide extra resistance to lever sag. Preassembled hubs provide quick, simple installation.

9K Series—Low-maintenance design protects critical components from the damage that comes with everyday use. Vandal-resistant lever features a lost motion design that allows lever to move 45° to 60° without engaging retractor assembly. Attack-resistant design with slotted key release cam and locking lug assembly allow key access even if lock is damaged and ensure that lever is functional from inside of the door. Outside lever sleeve is a single piece of seamless, hardened steel alloy that delivers additional reinforcement in the locking lug slot.

7K Series—Keeper hole is not exposed on keyed levers providing increased security. Snap-on inside rose means no exposed mounting screws. Keyed lever is removable only after removal of core. Internal steel mechanisms are corrosion-treated for normal atmospheric conditions. The lockset is reversible for either hand of door without removing keyed lever.

Style	Lockset Function	SATIN CHROME Mfr. Model	Item No.
9K Series, Grade 1			
9K Curved Return Lever	Passage	9K30N14DS3626	**49M862**
9K Contour Angle Lever	Passage	9K30N15DS3626	**49M863**
9K Curved Return Lever	Privacy	9K30L14DS3626	**49M864**
9K Contour Angle Lever	Privacy	9K30L15DS3626	**49M865**
9K Curved Return Lever	Entrance	9K37AB14CS3626	**49M866**
9K Curved Return Lever	Entrance	9K37AB14DS3626	**49M867**
9K Contour Angle Lever	Entrance	9K37AB15DS3626	**49M868**
9K Contour Angle Lever	Entrance	9K37AB15DSTK626	**49M869**
9K Curved Return Lever	Storeroom	9K37D14CS3626	**49M870**
9K Curved Return Lever	Storeroom	9K37D14DS3626	**49M871**
9K Contour Angle Lever	Storeroom	9K37D15DS3626	**49M872**
9K Contour Angle Lever	Storeroom	9K37D15DSTK626	**49M873**
9K Curved Return Lever	Classroom	9K37R14DS3626	**49M874**
9K Contour Angle Lever	Classroom	9K37R15DS3626	**49M875**
9K Contour Angle Lever	Dormitory	9K37T15DS3626	**49M876**
9K Contour Angle Lever	Intruder	9K37IN15DS3626	**49M877**

Style	Lockset Function	SATIN CHROME Mfr. Model	Item No.
7K Series, Grade 2			
7KC Contour Angle Lever	Passage	7KC30N15DS3626	**49M848**
7KC Contour Angle Lever	Passage	7KC30N15DSTK626	**49M849**
7KC Contour Angle Lever	Privacy	7KC30L15DS3626	**49M850**
7KC Contour Angle Lever	Privacy	7KC30L15DSTK626	**49M851**
7KC Contour Angle Lever	Entrance	7KC27AB15DS3626	**49M852**
7KC Contour Angle Lever	Entrance	7KC27AB15DSTK626	**49M853**
7KC Contour Angle Lever	Entrance	7KC37AB15DS3626	**49M855**
7KC Contour Angle Lever	Entrance	7KC37AB15DSTK626	**49M856**
7KC Curved Return Lever	Storeroom	7KC37D14DS3626	**49M857**
7KC Contour Angle Lever	Storeroom	7KC37D15DS3626	**49M858**
7KC Contour Angle Lever	Storeroom	7KC37D15DSTK626	**49M859**
7KC Contour Angle Lever	Classroom	7KC37R15DS3626	**49M860**
7KC Contour Angle Lever	Classroom	7KC37R15DSTK626	**49M861**



No. J5612

A:H

Healthcare Mortise Locksets

- Paddle style
- Backset: 2¾"
- Strike: 4⅞"
- Door thickness: 1¾"
- ▶CHOOSE: Stainless steel, bright stainless steel, bright brass, satin brass, satin bronze, oil rubbed bronze

Features ligature-resistant trim with mortise lock body.

Lockset Function	Mfr. Model	Item No.
Privacy	LRF6632	**J5612**
Communicating	LRF6637	**J5613**
Hotel	LRF6645	**J5614**
Dormitory	LRF6653	**J5615**
Classroom	LRF6656	**J5616**
Storeroom	LRF6658	**J5617**
Passage	LRF6610	**J5636**
Entrance	LRF6638	**J5637**
Institution	LRF6641	**J5638**
Entrance, Office	LRF6654	**J5639**



No. J5620



No. J5630

Low-Profile Healthcare Latch, Grade 1

A:H

- Paddle style
- Strike: 4⅞"
- Door thickness: 1¾"
- ▶CHOOSE: Backset: 2¾", 3¾", 5" or 7"

Features cylindrical latch application for passage function.

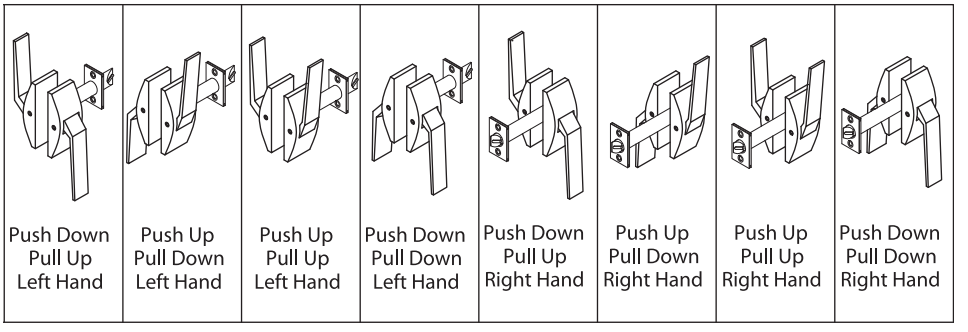
Handle Material	Finish	Left Handed Item No.	Right Handed Item No.
Quiet Push-Pull Latch			
Stainless Steel	Satin Stainless	**J5620**	**J5620**
Copper Nickel	Satin Stainless	**J5634**	**J5634**
Stainless Steel	Oil Rubbed Bronze	**J5621**	**J5621**
Stainless Steel	Satin Bronze	**J5622**	**J5622**
Stainless Steel	Bright Polished Brass	**J5623**	**J5623**
Stainless Steel	Satin Brass	**J5624**	**J5624**
Wide Paddle Push-Pull Latch			
Copper Nickel	Satin Stainless	**J5629**	**J5629**
Stainless Steel	Satin Stainless	**J5629**	**J5629**
Stainless Steel	Oil Rubbed Bronze	**J5625**	**J5625**
Stainless Steel	Satin Bronze	**J5626**	**J5626**
Stainless Steel	Bright Polished Brass	**J5627**	**J5627**
Stainless Steel	Satin Brass	**J5628**	**J5628**
Flip Up Wide Paddle Push-Pull Latch			
Stainless Steel	Oil Rubbed Bronze	**J5630**	**J5630**
Stainless Steel	Satin Bronze	**J5631**	**J5631**
Stainless Steel	Bright Brass	**J5632**	**J5632**
Stainless Steel	Satin Brass	**J5633**	**J5633**

Quiet Push-Pull Latch—Features built in sound dampening functionality to provide a zero decibel solution specifically for patient healthcare environments. Can be field configured for any paddle designation and ease of use.

Wide Paddle Push-Pull Latch—Provides additional area on the paddle when pushing or pulling. Ideal for use in operatiing rooms along with patient rooms when additional leverage is needed.

Flip Up Wide Paddle Push-Pull Latch—The push side of the paddle will flip up to be ligature-resistant, this application is used in behavioral health applications.

Choose Style









BATTALION

Lever Locksets, Grade 2 and 3

- Grade 2 backset: 2¾"
- Grade 3 backset: 2⅜" to 2¾"
- Door thickness: 1⅜" to 1¾" thick

Style	Function	Lockset Finish	Item No.	
Grade 2				
1TPH Angled	Entry	Dull Chrome	**1TPH9**	
1TPJ Angled	Passage	Dull Chrome	**1TPJ3**	
1TPJ Angled	Privacy	Dull Chrome	**1TPJ2**	
1TPJ Angled	Storeroom	Dull Chrome	**1TPJ4**	
1TPL Angled	Storeroom	Dull Chrome	**1TPL1**	*

** Clutch style.*

Style	Function	Lockset Finish	Item No.
Grade 3			
1TPN Angled	Passage	Bright Brass	**1TPN2**
1TPN Angled	Privacy	Satin Nickel	**1TPN5**
1TPN Angled	Dummy	Satin Nickel	**1TPN7**
1TPN Beaver Tail	Privacy	Bright Brass	**1TPN9**
1TPP Beaver Tail	Passage	Satin Nickel	**1TPP9**
1TPP Beaver Tail	Privacy	Satin Nickel	**1TPP8**
1TPW Straight	Privacy	Satin Chrome	**1TPW9**

Style	Function	Lockset Finish	Item No.
1TPW Straight	Passage	Bright Brass	**1TPW6**
1TPW Straight	Privacy	Bright Brass	**1TPW5**
2VMW Angled	Entry	Bright Brass	**2VMW2**
2VMW Angled	Entry	Satin Nickel	**2VMW3**
2VMW Beaver Tail	Entry	Satin Nickel	**2VMW6**
2VMX Straight	Entry	Satin Chrome	**2VMX5**
2VMX Straight	Entry	Bright Brass	**2VMX4**
200DL Delta	Passage	Satin Chrome	**2WHL9**

Door Control Hardware

GLYNN-JOHNSON

- Nonhanded

Push/Pull Latches—For commercial and institutional settings. Variable mounting positions and no fusible links to fail. For all labeled metal or wood doors.

Overhead Holders and Stops—For high-traffic industrial applications. Mount out of the way, preventing stumbling hazards and decreasing vulnerability to accidents or vandalism.

Description	SATIN CHROME Mfr. Model	Item No.	STAINLESS STEEL Mfr. Model	Item No.	ANTIMICROBIAL SATIN CHROME Mfr. Model	Item No.
Push/Pull Latches, For Doors Up to 1¾", Including Fire Doors						
Push/Pull Latch, 2¾" Backset	HL6-2 626 A	**2RXW4**	HL6-2 630 A	**2RXW6**	HL6-US26DAM-2-AS	**4AYC7**
Push/Pull Latch, 5" Backset	HL6-5 626 A	**2RXW5**	HL6-5 630 A	**2RXW7**	HL6-US26DAM-5-AS	**4AYC8**
70 Series Heavy-Duty Overhead Holders and Stops, Surface-Mount						
Hold-Open Holder, Size 4	—	—	704H-SP28	**5YFE4**	—	—
Hold-Open Stop, Size 4	—	—	704S-SP28	**5YFE5**	—	—
Hold-Open Holder, Size 5	—	—	705H-SP28	**5YFE6**	—	—
Hold-Open Stop, Size 5	—	—	705S-SP28	**5YFE7**	—	—





Ligature-Resistant Push/Pull Paddlesets

MARKSUSA

- Backset: 2¾"
- Strike: 2¾" cylindrical; 4⅞" mortise, ASA
- Door thickness: 1¾"
- Stainless steel finish

These paddlesets are specifically designed for healthcare facilities to prevent contamination under unhygienic conditions. Paddlesets can either be pushed or pulled by using an elbow or forearm to open the door.

Description	Function	Std.	Mfr. Model	Item No.
Cylindrical				
Keyless	Passage	ANSI F75, UL	1PDN/32D	**32J406**
Mortise				
Keyed Single Cylinder with Deadbolt	Entrance	ANSI F08, UL LISTED	5PDA/32D	**32J417**
Keyed Double Cylinder with Deadbolt	Entrance	ANSI F35, UL LISTED	5PDAC/32D	**32J430**
Keyless	Passage	ANSI F01, UL LISTED	5PDN/32D	**32J435**
Keyless	Privacy	ANSI F19, UL LISTED	5PDLF/32D	**32J437**
Keyless	Exit	ANSI F31, UL LISTED	5PDEX/32D	**32J439**
Keyed Single Cylinder, No Deadbolt	Storeroom	ANSI F07, UL LISTED	5PDEW/32D	**32J410**
Keyed Double Cylinder with Deadbolt	Storeroom	ANSI F14, UL LISTED	5PDC/32D	**32J431**
Keyed Single Cylinder, No Deadbolt	Classroom	ANSI F05, UL LISTED	5PDJ/32D	**32J411**
Keyed Double Cylinder, No Deadbolt	Classroom Security	ANSI, UL LISTED	5PDGG/32D	**32J427**
Keyed Single Cylinder, No Deadbolt	Privacy	ANSI F06, UL LISTED	5PDJM/32D	**32J412**
Keyed Single Cylinder, No Deadbolt	Privacy	ANSI F26, UL LISTED	5PDGL/32D	**32J414**
Keyed Double Cylinder, No Deadbolt	Privacy	ANSI F30, UL LISTED	5PDWW/32D	**32J429**
Keyed Double Cylinder with Deadbolt	Privacy	ANSI F34, UL LISTED	5PDFC/32D	**32J432**





Ligature-Resistant Knob Locksets, Grade 1

TownSteel Architectural Hardware MFG

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"
- Stainless steel finish

Nonhanded lock design impedes ability to attach laces, cords, and clothing to the knob. Heavy-duty lock chassis is constructed from wrought steel. For use in healthcare, detention centers, and other high risk facilities such as behavioral institutions.

Function	Mfr. Model	Item No.
Entry/Office	CRX-K-81-630	**30F426**
Passage	CRX-K-75-630	**30F424**
Privacy	CRX-K-76-630	**30F425**
Classroom	CRX-K-84-630	**30F427**
Storeroom	CRX-K-86-630	**30F428**





No. 26JF49

Ligature-Resistant Institutional Mortise Lock, Grade 1

SARGENT / ASSA ABLOY

- Backset: 2¾"
- Strike: ANSI
- Door thickness: 1¾" to 1⅞"

Integrated lever and escutcheon combine safety and aesthetics for behavioral health environments. Tapered surfaces on all components. For use on metal and hard wood doors. Easy-to-install with standard mortise prep. Include microshield and antimicrobial coating.

Function	Mfr. Model	DULL STAINLESS STEEL Item No.
Passage	SG-8215BHW-32D RHR	**26JF34**
Passage	SG-8215BHW-32D LHR	**26JF35**
Passage	SG-8215BHW-32D RH	**26JF36**
Passage	SG-8215BHW-32D LH	**26JF37**
Storeroom	SG-8204BHW-32D RHR	**26JF38**
Storeroom	SG-8204BHW-32D LHR	**26JF39**
Storeroom	SG-8204BHW-32D RH	**26JF40**
Storeroom	SG-8204BHW-32D LH	**26JF41**
Entrance/Office	SG-8205BHW-32D RHR W INSIDE TURN PIECE	**26JF42**
Entrance/Office	SG-8205BHW-32D LHR W INSIDE TURN PIECE	**26JF43**
Entrance/Office	SG-8205BHW-32D RH W INSIDE TURN PIECE	**26JF44**
Entrance/Office	SG-8205BHW-32D LH W INSIDE TURN PIECE	**26JF45**
Classroom Intruder	SG-8239BHW-32D RH 2 CYLINDERS	**26JF48**
Classroom Intruder	SG-8239BHW-32D LH 2 CYLINDERS	**26JF49**



No. 30F431

TownSteel Architectural Hardware MFG

Ligature-Resistant Mortise Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"

Outside clutching lever allows free rotation and helps protect against lock abuse. Field reversible. 6-pin solid brass cylinder with Schlage C keyway. 2 nickel silver keys per lock.

Finish	Function	Mfr. Model	Item No.
Satin Stainless	Entry/Office	MRX-S-L-04-630	**30F431**
Satin Stainless	Passage or Closet	MRX-S-L-01-630	**30F429**
Satin Stainless	Privacy or Bathroom	MRX-S-L-19-630	**30F430**
Satin Stainless	Classroom	MRX-S-L-05-630	**30F432**
Satin Stainless	Storeroom or Closet	MRX-S-L-07-630	**30F433**



No. 32J357

MARKSUSA

Ligature-Resistant Mortise Deadlock Knobs, Grade 1

- Backset: 2¾"
- Strike: 2¾", #4035
- Door thickness: 1¾"

Feature finger indented safety knobs recessed into solid brass through-bolted roses. 6-pin solid brass cylinder with Schlage C keyway. 2 keys per lock, except No. 32J358 is IC core prepped.

Description	Function	Mfr. Model	SATIN STAINLESS Item No.	SATIN STAINLESS LESS SFIC CYLINDER Item No.
Cylinder and Knob	Privacy	31SS55K/32D	**32J357**	—
Knob and Knob	Classroom	31SS55S/32D	**32J359**	—
Cylinder and Knob	Privacy	31SS55RK/32D	—	**32J358**
Knob and Knob	Classroom	31SS55RS/32D	—	**32J360**



No. 30F414

TownSteel Architectural Hardware MFG

Ligature-Resistant Cylindrical Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"

Cylindrical design makes it difficult to attach laces, cords, and lines to the lever set and helps reduce accidents in high-risk areas. Outside clutching lever enables free rotation and protects lock against abuse. 6-pin cylinder with Schlage C keyway. Standard 161 crossbore prep.

Function	Mfr. Model	Item No.
Grade 1, Satin Stainless		
Passage	TRX-L-75-630	**30F414**
Privacy	TRX-L-76-630	**30F415**
Classroom	TRX-L-84-630	**30F417**
Storeroom	TRX-L-86-630	**30F418**



No. 32J354

MARKSUSA

Ligature-Resistant Cylindrical Knob Locksets, Grade 1

- Backset: 2¾"
- Strike: 4⅞", ASA
- Door thickness: 1¾"

Feature finger indented safety knobs with recessed grip. Ergonomically designed integral grooved knob for the elderly and handicapped. No. 32J354 has 6 pins with 2 keys per lock and is Mark C keyway. No. 32J355 has 6 pins and is IC core prepped keyway.

Description	Function	Mfr. Model	SATIN STAINLESS STEEL Item No.	SATIN STAINLESS STEEL LESS SFIC CYLINDER Item No.
Cylinder and Knob	Institutional	180SSK/32D	**32J354**	—
Cylinder and Knob	Institutional	1SS55RK/32D	—	**32J355**



No. 420L34

TownSteel Architectural Hardware MFG

MRX-A Series Mortise Lock, Grade 1

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"

Ligature-resistant 5-pt. mortise arch trim makes it difficult to attach ligature points to lock from any direction. Arch handle has single and back-to-back pull function. Ideal for hospitals and behavioral health facilities.

Lockset Finish	Lockset Function	Mfr. Model	Item No.
Satin Stainless Steel	Passage	MRX-A-01-630-RH	**420L34**
	Privacy	MRX-A-02-630-RH	**420L36**
	Entrance, Office	MRX-A-04-630-RH	**420L38**
	Classroom	MRX-A-05-630-RH	**420L40**


No. 32J450


No. 32J472


No. 32J480


No. 32J475

Ligature-Resistant Mortise Knob and Lever Locksets, Grade 1

MARKSUSA®

- Backset: 2¾"
- Strike: 4⅞", ASA curved lip
- Door thickness: 1¾"

Adjustable bevel steel backplate and cover plate with tamperproof screws. Antifriction latch lever. Zinc dichromate finish. 2 keys per lock except Nos. 32J468 to 32J472.

Description	Lockset Function	Mfr. Model	Item No.
Keyed Single Cylinder with Deadbolt	Entrance	5SS55A/32D	**32J450**
Keyed Double Cylinder with Deadbolt	Entrance	5SS55AC/32D	**32J463**
Keyless	Passage	5SS55N/32D	**32J468**
Keyless	Privacy	5SS55LF/32D	**32J470**
Keyless	Exit	5SS55EX/32D	**32J472**
Keyed Single Cylinder, No Deadbolt	Storeroom	5SS55EW/32D	**32J443**
Keyed Double Cylinder with Deadbolt	Storeroom	5SS55C/32D	**32J464**
Keyed Single Cylinder, No Deadbolt	Classroom	5SS55J/32D	**32J444**
Keyed Double Cylinder, No Deadbolt	Classroom	5SS55GG/32D	**32J460**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS55JM/32D	**32J445**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS55GL/32D	**32J447**
Keyed Double Cylinder, No Deadbolt	Privacy	5SS55WW/32D	**32J462**
Dummy Trim	Privacy	5SS55DT/32D	**32J475**
Keyed Single Cylinder with Deadbolt	Entrance	5SS19A/32D	**32J486**
Keyed Double Cylinder with Deadbolt	Entrance	5SS19AC/32D	**32J499**
Keyless	Passage	5SS19N/32D	**32J505**
Keyless	Privacy	5SS19LF/32D	**32J507**
Keyless	Exit	5SS19EX/32D	**32J509**
Keyed Single Cylinder, No Deadbolt	Storeroom	5SS19EW/32D	**32J479**
Keyed Double Cylinder with Deadbolt	Storeroom	5SS19C/32D	**32J501**
Keyed Single Cylinder, No Deadbolt	Classroom	5SS19J/32D	**32J480**
Keyed Double Cylinder, No Deadbolt	Classroom	5SS19GG/32D	**32J496**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS19JM/32D	**32J481**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS19GL/32D	**32J483**
Keyed Double Cylinder, No Deadbolt	Privacy	5SS19WW/32D	**32J498**
Dummy Trim	Passage	5SS19DT/32D	**32J512**

Mortise Lever Locksets, Grade 1

SCHLAGE

- Backset: 2¾"
- Door thickness: 1¾"

Extra heavy-duty mortise locks designed for facilities requiring extended product life cycles. Ideally suited for educational, healthcare, and government buildings. Equipped with conventional cylinders; A Series is supplied with Rose trim, L Series is supplied with Escutcheon trim. 6-pin solid brass cylinder. C123 keyway, keyed different. 2 nickel silver keys per lock. ¾" stainless steel throw latchbolt. Concealed hardened steel roller pin is resistant to cutting or kicking attacks.

Lockset Function	RHODES STYLE, SATIN CHROME, 06A SERIES Mfr. Model	Item No.	SPARTA STYLE, SATIN CHROME, 17 A SERIES Mfr. Model	Item No.
With Rose, Grade 1				
Entrance	L9453P 06A 626 C123	**36Z275**	L9453P 17A 626 C123	**36Z277**
Passage	L9010 06A 626	**36Z249**	—	—
Office	L9050P 06A 626 C123	**36Z261**	L9050P 17A 626 C123	**36Z263**
Classroom	L9070P 06A 626 C123	**36Z267**	L9070P 17A 626 C123	**36Z269**
Storeroom	L9080P 06A 626 C123	**36Z271**	L9080P 17A 626 C123	**36Z273**
Passage	—	—	L9010 17A 626	**28XX91**

Function	RHODES STYLE, SATIN CHROME, 06 L SERIES Mfr. Model	Item No.	SPARTA STYLE, SATIN CHROME, 17 L SERIES Mfr. Model	Item No.
With Escutcheon, Grade 1				
Entrance/Office	L9453P 06L 626 C123	**36Z276**	L9453P 17L 626 C123	**36Z278**
Passage	L9010 06L 626	**36Z250**	L9010 17L 626	**36Z252**
Privacy	L9040 06L 626	**36Z256**	L9040 17L 626	**36Z258**
Entrance/Office	L9050P 06L 626 C123	**36Z262**	L9050P 17L 626 C123	**36Z264**
Classroom	L9070P 06L 626 C123	**36Z268**	L9070P 17L 626 C123	**36Z270**
Storeroom	L9080P 06L 626 C123	**36Z272**	L9080P 17L 626 C123	**36Z274**


Rhodes 06


Sparta 17

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Mortise Lever Locksets, Grade 1

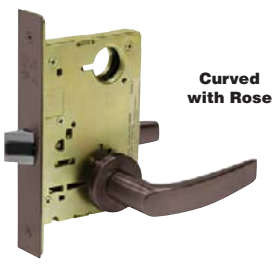
SARGENT
ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼" curved lip
- Door thickness: 1¾"

1-pc. design holds lock securely in door. Strengthened cylinder retainer with 2-prong grip provides resistance against vandalism and unauthorized entry. Heavy-duty hubs and spring cartridge provide superior strength and extend product life cycle. 12-ga. steel lock body case adds security and is corrosion-resistant. 1-pc. latch, easily reversible without opening case. All locksets have 6-pin solid brass cylinder with LA keyway; keyed different; 2 nickel silver keys per lock except Nos. 32J215, 32J216, 32J220, 32J221, 32J225, 32J226, 32J230, and 32J231.

Style	Lockset Function	SATIN CHROME Mfr. Model	Item No.	OIL-RUBBED BRONZE Mfr. Model	Item No.
8200 Right Angle	Entrance	8205 LNL 26D	**32J213**	8205 LNL 10B	**32J223**
	Passage	8215 LNL 26D	**32J215**	8215 LNL 10B	**32J225**
	Privacy	8265 LNL 26D	**32J216**	8265 LNL 10B	**32J226**
	Classroom	8237 LNL 26D	**32J214**	8237 LNL 10B	**32J224**
	Storeroom	8204 LNL 26D	**32J212**	8204 LNL 10B	**32J222**
8200 Curved	Entrance	8205 LNB 26D	**32J218**	—	—
	Passage	8215 LNB 26D	**32J220**	—	—
	Privacy	8265 LNB 26D	**32J221**	—	—
	Classroom	8237 LNB 26D	**32J219**	—	—
	Storeroom	8204 LNB 26D	**32J217**	—	—
Curved with Rose	Entrance	—	—	8205 LNB 10B	**32J228**
	Passage	—	—	8215 LNB 10B	**32J230**
	Privacy	—	—	8265 LNB 10B	**32J231**
	Classroom	—	—	8237 LNB 10B	**32J229**
	Storeroom	—	—	8204 LNB 10B	**32J227**


Right Angle with Rose


Curved with Rose

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).



Lustra with Rose



Lustra with Escutcheon



Newport with Rose

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).



Newport with Escutcheon

Corbin Russwin ASSA ABLOY

Mortise Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: 4⅞" x 1¼" curved lip
- Door thickness: 1¾"

2-pc. reversible latchbolt with antifriction insert. Heavy-duty ¾" throw-latchbolt with stainless steel insert allows secure latching. Lockset can be re-handed without disassembling the lock case. Durable heavy gauge steel internal parts increase strength. All locksets have 6-pin solid brass cylinder with LA keyway; keyed different; 2 nickel silver keys per lock except Nos. 32J264, 32J265, 32J270, 32J271, 32J276, 32J277, 32J282 and 32J283.

		ROSE			ESCUTCHEON		
Description	Lockset Function	Finish	Mfr. Model	Item No.	Finish	Mfr. Model	Item No.
Lustra	Entrance	Satin Stainless Steel	ML2051 LWA630	**32J266**	Satin Chrome	ML2051 LWM 626	**32J278**
Lustra	Passage	Satin Stainless Steel	ML2010 LWA 630	**32J264**	Satin Chrome	ML2010 LWM 626	**32J276**
Lustra	Privacy	Satin Stainless Steel	ML2030 LWA 630	**32J265**	Satin Chrome	ML2030 LWM 626	**32J277**
Lustra	Classroom	Satin Stainless Steel	ML2055 LWA 630	**32J268**	Satin Chrome	ML2055 LWM 626	**32J280**
Lustra	Classroom	Satin Stainless Steel	ML2052 LWA 630	**32J267**	Satin Chrome	ML2052 LWM 626	**32J279**
Lustra	Storeroom	Satin Stainless Steel	ML2057 LWA 630	**32J269**	Satin Chrome	ML2057 LWM 626	**32J281**
Newport	Entrance	Satin Chrome	ML2051 NSA 626	**32J272**	Satin Chrome	ML2051 NSM 626	**32J284**
Newport	Passage	Satin Chrome	ML2010 NSA 626	**32J270**	Satin Chrome	ML2010 NSM 626	**32J282**
Newport	Privacy	Satin Chrome	ML2030 NSA 626	**32J271**	Satin Chrome	ML2030 NSM 626	**32J283**
Newport	Classroom	Satin Chrome	ML2055 NSA 626	**32J274**	Satin Chrome	ML2055 NSM 626	**32J286**
Newport	Classroom	Satin Chrome	ML2052 NSA 626	**32J273**	Satin Chrome	ML2052 NSM 626	**32J285**
Newport	Storeroom	Satin Chrome	ML2057 NSA 626	**32J275**	Satin Chrome	ML2057 NSM 626	**32J287**

8800 Series, Escutcheon Plate





Interconnected Lockset, Rose

Yale

Mortise Lever Locksets, Grade 1

		DULL CHROME		DULL CHROME, MICROSHIELD ANTIMICROBIAL	
Style	Lockset Function	Mfr. Model	Item No.	Mfr. Model	Item No.
8800FL Series, Grade 1, Escutcheon Plate					
8800FL Augusta	Entrance	AUCN8807FL x 626	**1ABG3**	AUCN8807FL x 626 x YMS	**5VTA4**
8800FL Augusta	Entrance	AUCN8867FL x 626	**4ECF9**	AUCN8867FL x 626 x YMS	**5VTA5**
8800FL Augusta	Passage	AUCN8801FL x 626	**4ECF7**	AUCN8801FL x 626 x YMS	**5VTA1**
8800FL Augusta	Privacy	AUCN8802FL x 626	**4ECF8**	AUCN8802FL x 626 x YMS	**5VTA2**
8800FL Augusta	Classroom	AUCN88182FL x 626	**1ABG6**	AUCN88182FL x 626 x YMS	**5VTA6**
8800FL Augusta	Storeroom	AUCN8805FLX626	**1ABG5**	AUCN8805FL x 626 x YMS	**5VTA3**
8800FL Pacific Beach	Entrance	PBCN8807FLX626	**4ECN7**	PBCN8807FL x 626 x YMS	**5VTC6**
8800FL Pacific Beach	Entrance	PBCN8867-FLX626	**4ECN8**	—	—
8800FL Pacific Beach	Passage	PBCN8801FL x 626	**4ECN4**	—	—
8800FL Pacific Beach	Privacy	PBCN8802FL x 626	**4ECN5**	—	—
8800FL Pacific Beach	Classroom	PBCN88182FL x 626	**4ECN9**	PBCN88182FL x 626 x YMS	**5VTC8**
8800FL Pacific Beach	Storeroom	PBCN8805FL x 626	**4ECN6**	PBCN8805FL x 626 x YMS	**5VTC5**
8800FL Series, Grade 1, Rose					
8800FL Augusta	Storeroom	AUR8805FL x 626	**4ECG9**	AUR8805FL x 626 x YMS	**5VTA9**
8800FL Augusta	Entrance	AUR8807FL x 626	**4ECH1**	AUR8807FL 626 x YMS	**5VTC0**
8800FL Augusta	Entrance	AUR8867FL x 626	**4ECH2**	—	—
8800FL Augusta	Passage	AUR8801FL x 626	**4ECG7**	AUR8801FL x 626 x YMS	**5VTA7**
8800FL Augusta	Privacy	AUR8802FL x 626	**4ECG8**	AUR8802FL x 626 x YMS	**5VTA8**
8800FL Augusta	Classroom	AUR88182FL x 626	**4ECH3**	AUR88182FL x 626 x YMS	**5VTC2**
8800FL Pacific Beach	Entrance	PBR8807FL x 626	**4ECR1**	PBR8807FL x 626 x YMS	**5VTD2**
8800FL Pacific Beach	Entrance	PBR8867FL x 626	**4ECR2**	PBR8867FL x 626 x YMS	**5VTD3**
8800FL Pacific Beach	Passage	PBR8801FL x 626	**4ECP7**	PBR8801FL x 626 x YMS	**5VTC9**
8800FL Pacific Beach	Privacy	PBR8802FL x 626	**4ECP8**	PBR8802FL x 626 x YMS	**5VTD0**
8800FL Pacific Beach	Classroom	PBR88182FL x 626	**4ECR3**	PBR88182FL x 626 x YMS	**5VTD4**
8800FL Pacific Beach	Storeroom	PBR8805FL x 626	**4ECP9**	—	—
Interconnected Locksets, Satin Chrome					
Interconnected Lockset	Passage	YH852 x KW x RA CR X US26D	**52WN29**	—	—

SCHLAGE

Residential/Commercial Knob Locksets, Grade 1 and 2

6-pin solid brass cylinder with C123 keyway. Keyed different. Thru-bolted through the door. Double compression springs provide consistent latch retraction. 2 nickel silver keys per lock.

D Series, Grade 1—Heavy-duty cylindrical locks are designed for institutional and industrial applications.
- Latch: 1⅛" x 2¼"
- Strike: 1¼" x 4⅞"
- Door range: 1⅜" to 2"

A Series, Grade 2—Standard-duty cylindrical locks for commercial and residential applications.
- Latch: 1" x 2¼"
- Strike: T-Strike Box
- Door range: 1⅜" to 1⅞"



Orbit



Plymouth

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Style	Function	SATIN CHROME Mfr. Model	SATIN CHROME Item No.
D Orbit	Entry	D53PD ORB 626 C123	**36Z156**
D Orbit	Passage	D10S ORB 626	**36Z104**
D Orbit	Privacy	D40S ORB 626	**36Z147**
D Orbit	Classroom	D70PD ORB 626 C123	**36Z165**
D Orbit	Storeroom	D80PD ORB 626 C123	**36Z168**
D Plymouth	Storeroom	D80PD PLY 626 C123	**36Z171**
A Orbit	Entrance	A53PD ORB 626 C123	**36Z017**
A Orbit	Passage	A10S ORB 626	**36Y996**
A Orbit	Privacy	A40S ORB 626	**36Z011**
A Orbit	Storeroom	A80PD ORB 626 C123	**36Z023**
A Plymouth	Entrance	A53PD PLY 626 C123	**36Z020**
A Plymouth	Passage	A10S PLY 626	**36Y999**

Yale

Knob Locksets, Grade 1

- Ball style
- Backset: 2¾"
- Strike: 1¼" curved lip
- Door thickness: 5400CK Series; 1⅜" to 2"; 4600 Series is 1⅜" to 1¾"

Nonhanded, field reversible. 5400 Series has zinc dichromate plating that resists corrosion and is keyed different.



5400 Series

Function	BRIGHT BRASS Mfr. Model	BRIGHT BRASS Item No.	DULL STAINLESS Mfr. Model	DULL STAINLESS Item No.
5400CK Series, Grade 1				
Passage	CA5401CK x 605	**48LW48**	CA5401CK x 626	**48LW49**
Privacy	CA5402CK x 605	**48LW50**	CA5402CK x 630	**48LW51**
Storeroom	CA5405CK x 605	**48LW52**	CA5405CK x 630	**48LW53**
Entrance	CA5407CK x 605	**48LW54**	CA5407CK x 630	**48LW55**
Classroom	CA5408CK x 605	**48LW56**	CA5408CK630	**48LW57**



Ball

Tulip



Biscuit



Ball Interior

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Master Lock

GA GRAINGER APPROVED

Knob and Deadbolt Combos, Grade 3

- Backset: 2⅜" or 2¾"
- Door thickness: 1⅜" to 1¾"

Lockset and deadbolt are keyed alike.

Style	Function	Brand	POLISHED BRASS Item No.	SATIN NICKEL Item No.	STAINLESS STEEL Item No.
Grade 3 Residential					
BAC Ball	Keyed Entry	Master Lock	**33M256**	—	—
Ball	Combination Entrance	GA	**1TPT5**	**1TPU1**	**1TPU6**
Flat Ball	Combination Entrance	GA	**2VMW8**	**2VMX1**	—
BCC	Biscuit	Master Lock	**33M257**	—	—
BCC Biscuit	Security	Master Lock	—	**33M261**	—
Tulip	Combination Entrance	GA	—	—	**1TPR9**



7500 Series, Standard Hold-Open



7500 Series, CloserPlus®



7500 Series, Unitrol®



8300 Series, CloserPlus®



1600 Series, Standard

Arm Type	Housing Length	Housing Width	Housing Height	▶CHOOSE: Finish	Max. Door Opening	NONHANDED Item No.	NONHANDED HOLD-OPEN Item No.
Extra Heavy-Duty, 410 Series							
Parallel	12¼"	2¼"	3½"	Aluminum Painted	85° to 130°	**49VT63**	—
Standard	12¼"	2¼"	3½"		85° to 130°	**49VT65**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT67**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT69**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT71**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT73**	—
Delayed Action	12¼"	2¼"	2¾"		180°	**52CC51**	—
Standard	12¼"	2¼"	3½"	Dark Bronze Painted	85° to 130°	**49VT64**	—
Standard	12¼"	2¼"	3½"		85° to 130°	**49VT66**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT68**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT70**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT72**	—
Parallel	12¼"	2¼"	3½"		85° to 130°	**49VT74**	—
Delayed Action	12¼"	2¼"	2¾"		180°	**52CC52**	—
Heavy-Duty, 7500 Series							
Slide Track, Hinge (Pull) Side	13⅝"	2⅛"	3⅞"	Aluminum	110°	—	**D1082**
Standard	13⅝"	2⅛"	3⅞"	Aluminum Painted	180°	**D1075**	**D1081**
Closer Plus®	13⅝"	2⅛"	3⅞"	Aluminum Painted, Dark Bronze Painted	180°	**D1078**	**D1084**
Unitrol®	13⅝"	2⅛"	3⅞"		180°	**D1079**	**D1085**
Slide Track, Stop (Push) Side	13⅝"	2⅛"	3⅞"	Aluminum Painted	110°	—	**D1083**
Closer Plus® with Retrofit Plate	13⅝"	2⅛"	3⅞"	Aluminum Painted, Dark Bronze Painted	180°	—	**G6744**
Standard	13⅝"	2⅛"	3⅞"	Dark Bronze Painted	180°	**D1075**	**D1081**
Slide Track, Hinge (Pull) Side	13⅝"	2⅛"	3⅞"		110°	**D1076**	**D1082**
Slide Track, Stop (Push) Side	13⅝"	2⅛"	3⅞"		110°	**D1077**	**D1083**
Heavy-Duty, 7570 Series							
Unitrol®	13⅝"	2⅛"	3⅞"	Aluminum Painted, Dark Bronze Painted	110°	—	**D1118**
Light-Duty, 1700 Series							
Standard	8⅝"	2 1⁄16"	2½"	Aluminum	180°	—	**D1116**
Standard	8⅝"	2 1⁄16"	2½"	Aluminum Painted	180°	**D1115**	—
Standard	8⅝"	2 1⁄16"	2½"	Dark Bronze Painted	180°	**D1115**	**D1116**
Standard-Duty, Full Cover, 210 Series							
Non-Hold Open	13"	2⅛"	2⅛"	Aluminum Painted	180°	**45TY74**	—
Hold Open	13"	2⅛"	2⅛"		180°	**45TY76**	—
Non-Hold Open	13"	2⅛"	2⅛"		180°	**45TY78**	—
Hold Open	13"	2⅛"	2⅛"		180°	**45TY80**	—
Non-Hold Open	13"	2⅛"	2⅛"	Dark Bronze Painted	180°	**45TY75**	—
Hold Open	13"	2⅛"	2⅛"		180°	**45TY77**	—
Non-Hold Open	13"	2⅛"	2⅛"		180°	**45TY79**	—
Hold Open	13"	2⅛"	2⅛"		180°	**45TY81**	—
Standard-Duty, Full Cover, 8500 Series							
Standard	13"	2⅛"	2½"	Aluminum	180°	—	**D1092**
Standard	13"	2⅛"	2½"	Aluminum Painted	180°	**D1086**	—
Slide Track, Hinge (Pull) Side	13"	2⅛"	2⅞"		110°	**D1087**	—
Closer Plus®	13"	2⅛"	2⅞"		110°	**D1089**	—
Standard	13"	2⅛"	2½"	Dark Bronze Painted	180°	**D1086**	**D1092**
Slide Track, Hinge (Pull) Side	13"	2⅛"	2⅞"		110°	**D1087**	**D1093**
Slide Track, Stop (Push) Side	13"	2⅛"	2⅞"		110°	**D1088**	**D1094**
Closer Plus®	13"	2⅛"	2⅞"		110°	**D1089**	**D1095**
Unitrol®	13"	2⅛"	2⅞"		110°	**D1091**	**D1096**
Standard-Duty, No Cover, 1600 Series							
Standard, Sizes 1 to 6, Barrier Free, ADA	9¾"	2⅞"	2⅝"	Aluminum Painted, Dark Bronze Painted	180°	**D1108**	—
Standard, Sizes 1 to 6	9¾"	2⅞"	2⅝"		180°	**D1109**	—
Closer Plus®	9¾"	2⅞"	2⅝"		110°	**D1111**	**D1113**
Unitrol®	9¾"	2⅞"	2⅝"		110°	**D1112**	**D1114**
Hold Open	9¾"	2⅞"	2⅝"	Aluminum Painted	140°	—	**J2240**
Hold Open	9¾"	2⅞"	2⅝"	Dark Bronze Painted	140°	—	**J2240**
Standard-Duty, No Cover, 160 Series							
Non-Hold Open	9 1⁄16"	2⅝"	1⅞"	Aluminum Painted	180°	**45TY66**	—
Non-Hold Open	9 1⁄16"	2⅝"	1⅞"		180°	**45TY68**	—
Hold Open	9 1⁄16"	2⅝"	1⅞"		180°	**45TY70**	—
Non-Hold Open	9 1⁄16"	2⅝"	1⅞"	Dark Bronze Painted	180°	**45TY67**	—
Non-Hold Open	9 1⁄16"	2⅝"	1⅞"		180°	**45TY69**	—
Hold Open	9 1⁄16"	2⅝"	1⅞"		180°	**45TY71**	—
Standard-Duty, Slim Cover, 8300 Series							
Unitrol®	13"	2⅛"	2⅛"	Aluminum	110°	**D1102**	—
Standard	13"	2⅛"	2½"	Aluminum Painted	180°	**D1097**	**D1103**
Slide Track, Stop (Push) Side	13"	2⅛"	2⅛"		110°	**D1099**	—
Closer Plus®	13"	2¾"	2½"		110°	—	**D1106**
Standard	13"	2⅛"	2½"	Dark Bronze Painted	180°	**D1097**	**D1103**
Slide Track, Hinge (Pull) Side	13"	2⅛"	2⅛"		110°	**D1098**	**D1104**
Slide Track, Stop (Push) Side	13"	2⅛"	2⅛"		110°	**D1099**	**D1105**
Closer Plus®	13"	2¾"	2½"		110°	**D1101**	**D1106**
Unitrol®	13"	2⅛"	2⅛"		110°	**D1102**	**D1107**

Norton ASSA ABLOY

Hydraulic Door Closers

Rack and pinion closers have a lightweight aluminum alloy body. Feature adjustments for closing, sweep and latch speed, and back-check. Closures with retrofit plates allow 7500 Series door closers to replace 4040 Series door closers without modifying the existing hole pattern in the door. The plates will work with regular and parallel arm applications.

EXTRA HEAVY-DUTY, 410 SERIES

Nonhanded feature self-closes the door each time the door is opened. Nonhanded Hold-Open closers are not permitted on fire doors.

HEAVY-DUTY, 7500 SERIES

Feature larger closer body and springs, plus advanced hydraulic flow for greater door control. Adjust for door sizes from 1 to 6.

Standard Arm Type—Suitable for doors with low exposure to wind and abuse. For regular, top jamb, and parallel arm installation.

Slide Track Arm Type—Single-lever arm allows components to be stacked to reduce projection and obtrusive arm angles. Pull or Push models depend on the side of the door where the closer is mounted.

CloserPlus® Arm Type—Heavy-gauge arm material, arm pivot/elbow with larger bearings, and positive stop help prevent door from opening too far. For doors with moderate exposure to wind and abuse. Parallel arm mount only.

Unitrol® Arm Type—Have same features as CloserPlus, but include a spring stop that absorbs 30 lb. of force. Highly controlled stop. Suitable for doors with high exposure to winds and abuse. Parallel arm mount only.

HEAVY-DUTY, 7570 SERIES

This series incorporates the 7500 Series closer with a security cover. Security arm joints are riveted to prevent disassembly. Torx drive screws and security pin are included. Closers are handed with Unitrol arms.

STANDARD-DUTY, 8500, 8300, 260, 1600 AND 160 SERIES

Closers have a medium-size body and springs for effective door control. 8300 Series has a slimline design that requires less mounting space than other closers. Nos. 45TY68 and 45TY69 size 4 door closers.

LIGHT-DUTY, 1700 SERIES

Grade 2 closers include cover. Have a smaller body, making them suitable for use on low- to medium-use doors. Compatible with door sizes 2 to 5.



Non Hold-Open



Hold-Open

Pot-Belly Door Closers

Norton ASSA ABLOY

Original style closers for a retro-look. Include spring power adjustment, backcheck cushioning, and sweep/latch regulating valve. Nonhold-Open feature self-closes the door each time the door is opened. Hold-Open closers are not permitted on fire doors.

Arm Type	Spring Size	Closer Mounting Style	Housing Length	Housing Width	Housing Height	▶CHOOSE: Finish	▶CHOOSE: Hand	NON HOLD-OPEN Item No.	HOLD-OPEN Item No.
Standard-Duty 78-B/F Series									
Regular	2-4	Regular	7½"	3½"	5"	Aluminum Painted, Dark Bronze Painted	Left Hand, Right Hand	**D1123**	**D1125**
Regular	5 & 6	Regular	7½"	3½"	5"	Aluminum Painted, Dark Bronze Painted	Right Hand	**D1124**	**D1126**

Hydraulic Door Closers, Grade 1 and 3

- Interior/exterior installation
- Non-handed
- Aluminum closer body with plastic cover
- Full-surface mounting style

3100 Series Commercial Grade—Traditional style door control for use on commercial door applications. Common 9 1/16" mounting hole pattern permits simple installation on new or retrofit applications.

5500 Series Architectural Grade—Can be adjusted to comply with barrier-free opening force restrictions. Common 12" x ¾" mounting hole pattern for simple installation on new or retrofit applications.

GA GRAINGER APPROVED

7100 Series Heavy-Duty Closer—Constructed of high-strength cast-iron body and forged-steel arm assembly. Recommended for high-frequency, abusive installations.



Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	Finish	Mfr. Model	Item No.
3100 Series							
Door Closer - Commercial Doors							
Parallel	9¾"	2"	1⅞"	180°	Natural	3101 BC PA 689	**45CT70**
Parallel/ Hold Open	9¾"	2"	1⅞"	180°	Natural	3101 BC PA HO 689	**45CT71**
Door Saver	9¾"	2"	1⅞"	110°	Natural	3101 BC DS 689	**45CT72**
Door Saver/ Hold Open	9¾"	2"	1⅞"	110°	Natural	3101 BC DS HO 689	**45CT73**
Spring, Cush	9¾"	2"	1⅞"	180°	Natural	3101 BC SCS 689	**45CT74**
Door closer - Interior Doors							
Parallel	9 1/16"	1⅞"	1⅞"	180°	Natural	3100 BCPAHO 689	**45NA32**
Door Saver	9 1/16"	1⅞"	1⅞"	110°	Natural	3100 BCDS 689	**45NA33**
Parallel	9 1/16"	1⅞"	1⅞"	110°	Natural	3100 BCDSHO 689	**45NA34**
Parallel	9 1/16"	1⅞"	1⅞"	110°	Natural	3100 BC SCS 689	**45NA35**
5500 Series							
Door Closer - Commercial Doors							
Parallel/ Hold Open	13"	2"	2"	180°	Natural	5501 BC PA HO 689	**45CT76**
Door Saver	13"	2"	1 13/16"	110°	Natural	5501 BC DS 689	**45CT77**
Door Saver/ Hold Open	13"	2"	2"	110°	Natural	5501 BC DS HO 689	**45CT78**
Spring, Cush	13"	2"	2"	105°	Natural	5501 BC SCS 689	**45CT79**

Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	Finish	Mfr. Model	Item No.
7100 Series							
Parallel/ Hold Open	12¼"	2¼"	3½"	180°	Natural	7101 BC PA HO 689	**45CT81**
Door Saver	12¼"	2¼"	3½"	110°	Natural	7101 BC DS 689	**45CT82**
Door Saver/ Hold Open	12¼"	2¼"	3½"	110°	Natural	7101 BC DS HO 689	**45CT83**
Spring, Cush	12"	2"	3½"	110°	Natural	7101 BC SCS 689	**45CT84**
Delayed Action	12¼"	2¼"	3½"	180°	Natural	7141 DA BC PA	**45CT85**
Delayed Action	12¼"	2¼"	3½"	180°	Natural	7141 DA DS	**45CT86**
Door Closer - Interior and Exterior Doors, Reversible							
Regular	12¼"	2⅛"	3¾"	180°	Natural	5TUN6	**5TUN6**
Regular	9 1/16"	3⅛"	¾"	180°	Natural	5TUN9	**5TUN9**
Regular	12"	2¼"	¾"	180°	Natural	5TUP4	**5TUP4**
Regular	6½"	2¾"	¾"	90°	Natural	5TUP2	**5TUP2**
Regular	12¼"	2⅛"	3¾"	180°	Dark Bronze Powder Coat	5TUN7	**5TUN7**
Regular	9 1/16"	3⅛"	¾"	90°	Dark Bronze Powder Coat	5TUN8	**5TUN8**
Regular	9 1/16"	3⅛"	¾"	90°	Dark Bronze Powder Coat	5TUP0	**5TUP0**
Regular	12"	2¼"	¾"	180°	Dark Bronze Powder Coat	5TUP1	**5TUP1**
Regular	6½"	2¾"	¾"	90°	Dark Bronze Powder Coat	5TUP3	**5TUP3**
Regular	9 1/16"	3⅛"	¾"	180°	Dark Aluminum Powder Coat	5TUP5	**5TUP5**

Door Closers

Corbin Russwin ASSA ABLOY

Rugged design for high-traffic and high-abuse areas. Captured valves help make closers vandal- and tamper-resistant. Universal and Universal Hold-Open models include brackets and arms to install closer in top jamb, standard, and parallel applications.

Standard Arm—Allows inside mounting of closer on out-swinging doors. Arm does not project from the opening.

Hold-Open Arm—Combines regular hold-open arm with the parallel arm mounting bracket.



Aluminum No. 21T027



Bronze No. 21T028

Description	Housing Length	Housing Width	Housing Height	Max. Door Opening	Mfr. Model	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.
Standard Arm							
Universal	11⅝"	2¾"	3"	Up to 180°	DC3210	**21T027**	**21T028**
Universal	11⅝"	2¾"	3"	Up to 180°	DC6210	**21T031**	**21T032**
Universal	12"	2¼"	4 7/16"	Up to 180°	DC8210	**21T035**	**21T036**
Universal	11⅝"	2¾"	3"	Up to 180°	DC6210 x M101B	**21T039**	**21T040**
Parallel, Heavy-Duty Backstop	11⅝"	2¾"	3"	85° to 110°	DC6210 x M101C x A4	**21T043**	**21T044**
Parallel, Spring Stop	11⅝"	2¾"	3"	85° to 110°	DC6210 x M101B x A11 x 33-41	**21T047**	**21T048**
Parallel with Retrofit Kit	12"	2¼"	4 7/16"	Up to 180°	DC8210 x M101F	**21T051**	**21T052**
Parallel, Heavy-Duty Backstop with Retrofit Kit	12"	2¼"	4 7/16"	85° to 110°	DC8210 x M101F x A4	**21T055**	**21T056**
Unitrol® with Retrofit Kit	12"	2¼"	4 7/16"	85° to 130°	DC8210 x M101F x A11 x 33-41	**21T059**	**21T060**
Hold-Open Arm							
Universal	11⅝"	2¾"	3"	Up to 180°	DC3210H	**21T029**	**21T030**
Universal	11⅝"	2¾"	3"	Up to 180°	DC6210H	**21T033**	**21T034**
Universal	12"	2¼"	4 7/16"	Up to 180°	DC8210H	**21T037**	**21T038**
Universal	11⅝"	2¾"	3"	Up to 180°	DC6210 x M101B x A1	**21T041**	**21T042**
Parallel, Heavy-Duty Backstop	11⅝"	2¾"	3"	85° to 110°	DC6210 x M101C x A5	**21T045**	**21T046**
Parallel, Spring Stop Heavy-Duty	11⅝"	2¾"	3"	85° to 110°	DC6210 x M101B x A12 x 33-41	**21T049**	**21T050**
Parallel with Retrofit Kit	12"	2¼"	4 7/16"	Up to 180°	DC8210 x M101F x A1	**21T053**	**21T054**
Parallel, Heavy-Duty Backstop with Retrofit Kit	12"	2¼"	4 7/16"	Up to 180°	DC8210 x M101F x A5	**21T057**	**21T058**
Unitrol® with Retrofit Kit	12"	2¼"	4 7/16"	85° to 110°	DC8210 x M101F x A12 x 33-41	**21T061**	**21T062**

Powerglide® Door Closers

SARGENT ASSA ABLOY

1431 Series is suitable for interior or exterior doors in commercial settings.

Universal and Universal Hold-Open models include brackets and arms to install closer in top jamb, standard, and parallel applications.

281 Series is rugged cast-iron construction suitable for interior or exterior doors in high-use applications.

351 Series has aluminum body and is for use with doors exposed to strong drafts and winds.

Standard Arm—Mounts on the pull side of door with the arm mounted on the face of the frame.

Hold-Open Arm—Friction-type holder is easy to adjust and can hold door open from 80° to 180°.

Heavy-Duty Parallel Arm—Closer is suitable for narrower door frames, mounts on the push side of the door, and does not project into the room. For use in abusive and high-traffic areas.



Standard Arm Aluminum



Hold-Open Arm Dark Bronze

Description	Housing Length	Housing Width	Housing Height	Max. Door Opening	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.
1431 Series						
Standard Arm						
Universal	12"	2¼"	3⅜"	120° to 180°	**21T023**	**21T024**
Hold-Open Arm						
Universal	12"	2¼"	3⅜"	90° to 160°	**21T025**	**21T026**
281 Series						
Standard Arm						
Universal	11¾"	2 3/16"	4⅜"	120° to 180°	**21T009**	**21T010**
Hold-Open Arm						
Universal	11¾"	2 3/16"	4⅜"	90° to 160°	**21T011**	**21T012**
351 Series						
Standard Arm						
Universal with Retrofit Plate	13"	2 3/16"	4"	120° to 180°	**21T017**	**21T018**
Universal	13"	2 3/16"	4"	120° to 180°	**21T013**	**21T014**
Hold-Open Arm						
Universal with Retrofit Plate	13"	2 3/16"	4"	90° to 160°	**21T019**	**21T020**
Universal	13"	2 3/16"	4"	90° to 160°	**21T015**	**21T016**
Heavy-Duty Parallel Arm						
Parallel	13"	2 3/16"	4"	90° to 160°	**21T021**	**21T022**



Powered Door Operators

Norton ASSA ABLOY

- Nonhanded
- Acceptable for fire and smoke barrier doors

Low-energy operators function as standard spring-force closers during close cycles, when door is opened manually, or if power is lost or turned off. Hold-open time is adjustable from 0 to 30 sec. If door is obstructed, motor stops and the door closes with standard closer. Include 2 radio-frequency wall switches powered by 9V batteries, 6" x 6" face plates with Americans with Disabilities (ADA) logo, and built-in 1.1A power supply. Connect to wall outlet. Rated 120VAC, 60 Hz. Ideal for doctors' offices, retirement facilities, schools, churches, and other applications where noise may be a concern.

Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.	BLACK PAINTED Item No.
Heavy-Duty, 5700 Series							
Slide Track, Hinge (Pull) Side - Includes Radio Frequency Wall Switches	29"	4⅝"	5¼"	180°	**5EU12**	**4AVD2**	—
Slide Track, Stop (Push) Side - Includes Radio Frequency Wall Switches	29"	4⅝"	5¼"	180°	**5EU13**	—	—
Double Lever - Includes Radio Frequency Wall Switches	29"	4⅝"	5¼"	180°	—	**4AVD3**	—
Heavy-Duty, 5800 Series							
Regular, Parallel - Includes Door Opening Solution, Narrow Stile Push Plates	8"	2½"	9"	95°	—	—	**48ZD73**
Regular, Parallel - Includes Door Opening Solution, 3" Square Push Plates	8"	2½"	9"	95°	—	—	**48ZD74**


No. D8973

Door Closers

Yale

Rack and pinion closers have a lightweight aluminum alloy body. Feature adjustments for closing, sweep, latch, speed, and backcheck. Closers have a standard arm, which is suitable for doors with low exposure to wind and abuse. For regular, top jamb, and parallel arm installation.

Heavy-Duty, 2700 Series—Features larger closer body and spring. Adjust for door sizes 1 to 6 (Grade 1).

Standard-Duty, 1100 Series—Medium-size body and spring for effective door control. Adjust to door sizes 1 to 4 (Grade 1) or fixed at door size.

Standard, Standard Delayed-Action, and Extra Heavy-Duty 5800 Series—Extra Heavy-Duty feature cast iron construction that increases body life and reduces leakage. Adjustable backcheck, closing speed and latching speed. Tri-style packed regular and parallel arm and top jamb mounting.


No. D8974

Description	Housing Length	Housing Width	Housing Height	▶CHOOSE: Color	Max. Door Opening	NONHANDED Item No.	NONHANDED, HOLD-OPEN Item No.
Heavy-Duty, Full Cover, 2700 Series							
Standard, Sizes 1 to 6	13"	2¾"	2½"	Aluminum, Dark Bronze	180°	**D8978**	—
Standard-Duty, 1100 Series							
Standard, Sizes 1 to 4	9 1⁄16"	2⅝"	1⅞"	Aluminum	180°	**D8972**	**D8974**
Standard, Sizes 1 to 4	9 1⁄16"	2⅝"	1⅞"	Dark Bronze	180°	**D8972**	**D8974**
Standard, Sizes 1 to 4	9 1⁄16"	2⅝"	1⅞"	Aluminum, Dark Bronze	180°	**D8973**	—
Standard-Duty, 5800 Series							
Adjustable, Sizes 1 to 6	12¼"	2¼"	3½"	Aluminum, Dark Bronze	85° to 130°	**G6741**	—
Adjustable, Sizes 1 to 6	12¼"	2¼"	3½"			—	**G6742**
Standard-Duty Delayed Action, 5800 Series							
Adjustable, Sizes 1 to 6	12¼"	2¼"	3½"	Aluminum	130°	—	**48GG10**
Adjustable, Sizes 1 to 6	12¼"	2¼"	3½"	Dark Bronze	130°	—	**48GG11**
Extra Heavy-Duty, 5800 Series							
Adjustable, Sizes 1 to 6	12¼"	2¼"	3½"	Aluminum, Dark Bronze		**G6745**	**G6746**


No. 2WHF8 (shown with optional cover No. 2WHL8)


No. 5PHG9

Hydraulic Door Closers

STANLEY

Fully adjustable from 1 to 6. Feature delayed action and back check. Include wood and machine screws, sex nuts, and self-tapping screws. Aluminum finish.

Standard-Duty—For interior doors to 4½-ft. wide and exterior doors to 4-ft wide. Door closer cover not included, order No. 2WHL8 separately.
- Cast aluminum

Heavy-Duty and Extra Heavy-Duty—Plastic cover included. Door closers have all-weather fluid for optimal performance in harsh climates.
- Cast iron

Description	Housing Height	Housing Width	Housing Length	Mfr. Model	Item No.
Standard-Duty					
Non Hold-Open Arm, Tri-Packed, Grade 1	2⅝"	3 3⁄16"	9 13⁄16"	QDC311NC689	**2WHF9**
Hold-Open Arm, Grade 1	2⅝"	3 3⁄16"	9 13⁄16"	QDC312NC689	**2WHG2**
Dead-Stop Cushion Non Hold-Open Arm, Grade 1	2⅝"	3 3⁄16"	9 13⁄16"	QDC313NC689	**2WHG6**
Dead-Stop Cushion Hold-Open Arm, Grade 1	2⅝"	3 3⁄16"	9 13⁄16"	QDC314NC689	**2WHG5**
Heavy-Duty					
Non Hold-Open Arm, Tri-Packed, Grade 1	2 1⁄16"	3 3⁄16"	12"	QDC211F689	**2WHF8**
Hold-Open Arm, Grade 1	2 1⁄16"	3 3⁄16"	12"	QDC212F689	**2WHG1**
Dead-Stop Cushion Non Hold-Open Arm, Grade 1	2 1⁄16"	3 3⁄16"	12"	QDC213F689	**2WHG4**
Parallel, Non Hold Open, Universal, Parallel, Top Jamb and Standard, Adjustable 2 to 6	5 1 1⁄16"	13⅛"	2½"	CLD4550689SN	**35GR92**
Parallel, Non Hold Open, Universal, Parallel, Top Jamb and Standard, Adjustable 2 to 6	2⅞"	11⅞"	2 13⁄16"	CLD3550689SN	**35GR95**
Parallel, Non Hold Open, Universal, Parallel, Top Jamb and Standard, Adjustable 1 to 5	5 1 1⁄16"	13⅛"	2½"	CLD4551689SN	**35GR93**
Parallel, Non Hold Open, Universal, Parallel, Top Jamb and Standard, Adjustable 1 to 4	2⅞"	11⅞"	2 13⁄16"	CLD3551689SN	**35GR94**
Tri Pack, Non Hold Open, Parallel, Top Jamb and Regular, Adjustable 1 to 6	2 1⁄16"	12"	12"	QDC211S689	**45CK42**
Extra Duty Arm, Non Hold Open, Top Frame, Adjustable 1 to 6	3½"	12 3⁄16"	12 3⁄16"	QDC115R689	**45CK80**
Extra Heavy-Duty					
Tri-Packed Arm, Big Body, Grade 1	3½"	2¼"	12 3⁄16"	QDC111R689	**5PHG9**
Accessories					
Door Closer Cover	—	—	—	15918 CVR FULL SZ QDC300 689	**2WHL8**
Door Closer Door Closer Sex Nuts	—	—	—	15928 LPP SN 689	**2WHL7**



Door Closers

LCN®

- Max. door opening up to 180°
- Includes self drilling screws and hardware

Closers have cast iron cylinders, forged steel arms, all-weather fluids, and double heat-treated pinions that help provide long life cycle. Powder-coated finish. Self-tapping/self-reaming screws, and peel-and-stick templates help ensure accurate installation.

1261 Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Does not include cover.

1461 Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 5 ft. and exterior doors to 4 ft.

4011 Series Closers are handed and mounted hinge side; specify left or right handed. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Tested for 10,000,000 cycles without failure.

4040XP Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 5 ft. and exterior doors to 4 ft. Tested for 10,000,000 cycles without failure.

4111 Series Closers are handed and mounted parallel arm; specify left or right handed. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Tested for 10,000,000 cycles without failure.

▶CHOOSE: Finish	▶CHOOSE: Door Handing	Series/Mfr. Model	Item No.
LCN 1261			
Sprayed Aluminum, Dark Bronze Powder Coat	Non-Handed	1261-Hw/PA	**H4241**
	Non-Handed	1261-Rw/PA	**H4242**
LCN 1461			
Sprayed Aluminum, Dark Bronze Powder Coat	Non-Handed	1461-CUSH	**H4243**
	Non-Handed	1461-Hw/PA	**H4244**
	Non-Handed	1461-Rw/PA	**H4245**
LCN 4011			
Sprayed Aluminum	Left Hand	4011-H LH	**H4246**
	Right Hand	4011-H RH	**H4246**
Dark Bronze Powder Coat	Left Hand	4011-H LH	**H4247**
	Right Hand	4011-H RH	**H4247**
	Left Hand	4011-REG L	**H4249**
	Right Hand	4011-REG R	**H4249**
LCN 4040			
Dark Bronze Powder Coat	Non-Handed	4040XP-Rw/	**22RC23**
LCN 4111			
Sprayed Aluminum, Dark Bronze Powder Coat	Left Hand	4111-SHCUS	**H4260**
	Right Hand	4111-SHCUS	**H4261**



Door Closers

FALCON® LCN®

- Max. door opening up to 180°
- Includes self drilling screws and hardware
- Nonhanded

Closers have cast aluminum cylinders, stamped steel arms, all-weather fluids, and heat-treated pinions. Adjustable for general speed, latch speed, and backcheck. Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable 1 through 5.

SC61 Series has a Norton 1600 Series Footprint.

SC71 Series has a full body.

SC81 Series is low profile.

Arm Type	▶CHOOSE: Finish	Series/Mfr. Model	Item No.
Falcon SC61			
Parallel	Sprayed Aluminum, Dark Bronze Powder Coat	SC61A HWPA	**H4262**
Parallel		SC61A RWPA	**H4263**
Parallel		SC61A HWPA	**H4264**
Parallel	Dark Bronze Powder Coat	SC61A RW/P	**H4265**
Falcon SC71			
Parallel	Sprayed Aluminum	SC71A HWPA	**H4267**
Parallel	Dark Bronze Powder Coat	SC71 HW/PA	**H4267**
Parallel	Sprayed Aluminum	SC71A RWPA	**H4268**
Parallel	Dark Bronze Powder Coat	SC71 RWPA	**H4268**
Top Jamb	Sprayed Aluminum	SC71A DS A	**H4266**
Top Jamb	Dark Bronze Powder Coat	SC71A DS D	**H4266**
Falcon SC81			
Parallel	Sprayed Aluminum, Dark Bronze Powder Coat	SC81A HWPA	**H4269**
Parallel		SC81A RWPA	**H4270**
Falcon SC91			
Parallel	Sprayed Aluminum, Dark Bronze Powder Coat	SC91A HWPA	**H4271**
Parallel		SC91A RWPA	**H4272**
LCN SC61			
Parallel	Sprayed Aluminum	SC61A RWPA	**H4265**

Description	Finish	Mfr. Model	Item No.
22 Series Touchbar Exit Devices			
Exit Device, Exit Only, Rim, 3-Ft.	Lacquer	22EO 3FT SP28	**4WY55**
Exit Device, Exit Only, Rim, 4-Ft.	Lacquer	22EO 4FT US28	**2RJ50**
Exit Device, Exit Only, Surface Vertical Rod, 3-Ft.	Lacquer	2227EO-3-SP28	**4WY56**
Exit Device, Exit Only, Surface Vertical Rod, 4-Ft.	Lacquer	2227EO-4-SP28	**2RJ51**
Exit Device, Alarm Type Horn, 3-Ft.	Aluminum	22EO 3FT SP28 ALK 3215	**1RAL8**
Exit Device Trim, Knob	Aluminum	210K US28	**4WY57**
Alarm Exit Device Kit	Aluminum	22ALK 3FT SP28 3215	**1RAL5**
Exit Device Trim, Lever	Unfinished	230L-03 SP28 3215 LHR	**407L95**
99 Series Touchbar Exit Devices			
Exit Device Trim, Night Latch	Sprayed Duranodic	990NL-R/V SP313 3216	**2RJ64**
Exit Device Trim, Electric Latch Retraction	Satin Chrome	EL99EO 3 26D	**1RAL3**
Exit Device, Exit Only, Rim, 3-Ft.	Satin Chrome	99EO 3 26D	**4WY59**
Exit Device, Exit Only, Rim, 4-Ft.	Satin Chrome	99EO 4 26D	**2RJ56**
Exit Device, Exit Only, Surface Vertical Rod, 3-Ft.	Satin Chrome	9927EO 3 26D	**4WY60**
Exit Device, Exit Only, Surface Vertical Rod, 4-Ft.	Satin Chrome	9927EO 4 26D	**2RJ57**
Exit Device Trim, Dummy	Satin Chrome	990DT US26D	**4WY62**
Exit Device Trim, Night Latch	Satin Chrome	990NL-R/V US26D 3216	**4WY63**
Exit Device Trim, Pull, Entrance by Thumbpiece	Satin Chrome	990TP-R/V US26D 3216	**4WY64**
Exit Device Trim, Lever	Satin Chrome	996L-06-R/V US26D LHR 3216	**5VRE5**
Alarm Exit Device Kit	Satin Chrome	99ALK 3FT US26 3215	**1RAL7**
99 Series Conversion Kit			
EL Conversion Kit, 24VDC, 3-Ft.		050070	**1RAK8**
88 Series Crossbar Exit Devices			
Exit Device, Exit Only, Mortise, Left Hand Reverse	Satin Chrome	8875EO US26D LHR	**4AZX9**
Exit Device, Exit Only, Mortise, Right Hand Reverse	Satin Chrome	8875EO US26D RHR	**4AZY1**
Exit Device, Exit Only, Heavy-Duty Rim	Satin Chrome	88EO US26D	**4AZY2**
Backplate Conversion Kit for use with Nos. 4AZY2 and 4AZY8	Dull Chromium	050102 26D	**5VRF6**
Exit Device, Mortise, Night Latch Trim	Satin Chrome	880NL-R US26D	**407L91**
Exit Device, Mortise, Night Latch	Satin Chrome	880NL-M US26D	**407L92**
Alarmed Device			
Guard-X, Battery Powered for Alarm Device	Aluminum	2670 3FT US28 3216	**4WY65**



VON DUPRIN®

Exit Devices, Grade 1

- Fit doors 1¾" to 2¼" thick up to 7-ft. high

For heavy traffic applications. Use on flush and wide-stile doors.


Rim Pullman Bolt


Rim SquareBolt®


Surface Vertical Rod

Exit Devices

- Nonhanded

Nonfire-rated devices have a dogging feature that keeps the door unlatched, allowing traffic to enter and exit freely. "A" labeled fire doors. Fit 1¾"- and 2¼"-thick doors up to 7-ft. high. Include strike and mounting hardware. Heavy-duty devices have a hydraulic noise-dampening feature and a high-quality finish.

Rim Pullman Bolt— Devices resist vandalism and have a ¾" throw stainless steel latchbolt for single-point latching. A guardbolt deadlocks the latchbolt when door is closed and latched.

Rim SquareBolt®— Deadbolt-style, 1" throw latchbolt engages the roller strike with a flat surface for increased security. Stainless steel bolt design locks into place; resists shimming and door rattling/shaking.

Surface Vertical Rod— 2-point locking exit devices have an automatic deadlocking upper latchbolt with ¾" throw and lower deadbolt with ⅝" throw. For doors taller than 7 ft., order vertical rod extensions.

Finish	2 INCH Item No.	6 INCH Item No.	12 INCH Item No.
Surface Vertical Rod Extensions			
Stainless Steel 360	4AVD4	4AVD5	4AVD6
Aluminum Painted	4AVE1	4AVE2	4AVE3
Bronze Painted	4AVD7	4AVD8	4AVD9

Description	Finish	Door W (in.)	FIRE RATED Item No.	NON-FIRE RATED Item No.
Heavy-Duty, 7100 Series				
Rim Pullman Bolt		30 to 36	5T796	5T794
Rim SquareBolt®	Stainless Steel	30 to 36	3ZV64	3ZV63
Surface Vertical Rod		30 to 36	5T797	5T795
Standard-Duty, 2100 Series				
Rim Pullman Bolt	Stainless Steel	30 to 36	1ABK4	1ABK3
	Lacquer	30 to 36	1ABK5	—
	Aluminum	30 to 36	—	1H820
	Painted	30 to 36	1ABK6	1H819
Rim SquareBolt®	Stainless Steel	30 to 36	1ABL3	1ABL2
	Lacquer	30 to 36	1ABL5	1ABL4
	Painted	30 to 36	1ABL7	1ABL6
		30 to 36	1ABL1	1H818
Surface Vertical Rod	Stainless Steel	30 to 36	1ABK8	1ABK7
		30 to 36	—	1H817
	Lacquer	30 to 36	1ABK9	—
Standard-Duty, 1800 Series				
Rim Pullman Bolt	Lacquer	30 to 36	5VRW9	5VRV7
		36 to 42	5VRX0	5VRV8
		42 to 48	5VRX1	5VRV9
	Bronze	30 to 36	5VRX2	5VRW0
		36 to 42	5VRX3	5VRW1
		42 to 48	5VRX4	5VRW2
Surface Vertical Rod	Lacquer	30 to 36	5VRX5	5VRW3
		36 to 42	5VRX6	5VRW4
		42 to 48	5VRX7	5VRW5
	Bronze	30 to 36	5VRX8	5VRW6
		36 to 42	5VRX9	5VRW7
		42 to 48	5VRY0	5VRW8


No. 2WHH5


No. 2WHH3

Exit Devices and Trim

- Thru-bolt trim design for increased security and durability
- For doors 32" to 36"W

Use in school, healthcare, industrial, office, and multifamily housing facilities. Hex dogging and cylinder dogging lock down the device bar so the latch remains retracted and the door can swing freely. Hex dogging locks down the bar with the use of a hex key. Cylinder dogging uses a keyed cylinder for increased access control.

Standard-duty devices tested to over 500,000 cycles and exceed requirements for Grade 1 certification.

Description	Finish	Item No.
Exit Devices		
Rim Exit Device, Cylinder Dogging	Aluminum	2WHH9
Standard Rim	Aluminum	2WHH5
Standard Rim, Fire Rated	Aluminum	2WHH4
Standard Surface Vertical Rod	Aluminum	2WHH3
Standard Surface Vertical Rod, Fire Rated	Aluminum	2WHH2
Surface Vertical Rod, Cylinder Dogging	Aluminum	2WHH8
Exit Device Trim		
Passage Lever	Aluminum	2WHG8
Entry Lever	Aluminum	2WHG9
Nightlatch Lever	Aluminum	2WHH1
Gull Wing Pull	Aluminum	2WHH6
Rose Lever, Classroom	Aluminum	5PHH0
Rose Lever, Classroom, SFIC	Aluminum	5PHH1
Rose Lever, Storeroom	Aluminum	5PHH2
Rose Lever, Storeroom, SFIC	Aluminum	5PHH4



Exit Device Trim

Prepped to fit Yale 7100, 2100, and 1800 Series exit devices. When exit device is unlocked, the 6-pin cylinder retracts the latchbolt. Lever is Augusta-style and freewheeling to resist vandalism. No. 4UB37 is a bored lock prep that locks the exit device unless unlocked with a key.

Key	Description	Finish	Item No.
A	Cylindrical by Lever	Satin Chrome	1H813
A	Cylindrical by Lever	Baked Aluminum 689	3ZV42
B	Cylindrical by Lever with Plate	Baked Aluminum 689	4UB37
C	Pull Plate	Baked Aluminum 689	1H816
D	Escutcheon by Lever, Right Hand	Stainless Steel	5T804
D	Escutcheon by Lever, Left Hand	Stainless Steel	5T805
D	Escutcheon by Handle	Stainless Steel	5T799
E	Escutcheon by Thumbpiece and Handle	Stainless Steel	5T801


No. 35GR63
2200 Series


No. 35GR71
2100 Series

Heavy-Duty Exit Devices

Chassis are constructed from investment cast steel. Universal mounting holes provide an easy retrofit installation. Designed for single and double door applications. 2100 Series devices are nonhanded.

Description	Finish	Door Height	Door Width	Fits Stile Width	For Door Thickness	Fire Rated	Item No.
Rod, 2200 Series							
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	Yes	35GR63
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	Yes	35GR64
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	Yes	35GR65
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	Yes	35GR66
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	No	35GR68
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	No	35GR69
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	No	35GR70

Description	Finish	Door Height	Door Width	Fits Stile Width	For Door Thickness	Fire Rated	Item No.
Rim, 2100 Series							
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	Yes	35GR71
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	Yes	35GR72
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	Yes	35GR73
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	Yes	35GR74
Exit Device	Satin Stainless Steel	Up to 120"	48"	4⅛"	1¾" to 2¼"	No	35GR76
Exit Device	Satin Stainless Steel	Up to 120"	36"	4⅛"	1¾" to 2¼"	No	35GR77


No. 5TUN1

GRAINGER APPROVED

Exit Devices and Trim, Grade 1

- Fit 1¾"-thick doors
- 19 Series

Suitable for all doors where there is no projection on the face. Can be sized down to fit the required width of the door and used with a variety of exit device trims. Include sheet metal and machine screws.

Description	Finish	Door Width	Item No.
Exit Devices			
Touchbar Rim	Aluminum	37 To 48"	5TUN1
Touchbar Rim	Aluminum	36"	5TUN2
Exit Trim			
Lever w/Lock	Aluminum	—	5TUN3
Knob w/Lock	Stainless Steel	—	5TUN4
Night Latch Pull w/Lock	Aluminum	—	5TUN5



No. 18F574



No. 18F576



No. G6694

No. G6702

SARGENT
ASSA ABLOY

Sargent Exit Devices, Grade 1

- For 1¾"-thick doors

3828 SERIES

Nonhanded style. Stainless steel latchbolt, ¾" throw. Dogging feature keeps the door unlatched to allow traffic to enter and exit freely.

88 SERIES

- 3-hr. fire rating

Designed for standard width stile applications on wood and metal doors. Nonhanded style. Stainless steel latchbolt, ¾" throw.

87 SERIES

- 3-hr. fire rating

Feature 2-pt. top and bottom latching with adjustability through the center case. Standard bottom latch is compatible with most latch track thresholds.

Description	▶CHOOSE: Finish	Mfr. Model	Item No.
3828 Series Rim Exit Devices and Trim			
Exit Device, Exit Only, Rim, 3 ft.	Lacquer	3828F EN	**18F574**
Exit Device, Vertical Rod, 3 ft.	Lacquer	3827F EN	**18F575**
Exit Device Trim, Pull, Entrance by Thumbpiece	Painted	28K-LL-26D	**18F576**
Exit Device Trim, Night Latch	Painted	814HTB EN	**18F577**
88 Series Multifunction Exit Device and Trim			
Exit Device, Exit Only, Rim, 3 ft.	Dull Stainless Steel, Dull Brass	8888F	**G6693**
Storeroom Lever Trim, Night Latch, Right Hand	Satin Chrome, 10B Dull	704 ETL RHRB	**G6694**
Storeroom Lever Trim, Night Latch, Left Hand	Satin Chrome, 10B Dull	704 ETL LHRB	**G6695**
Classroom Lever Trim, Right Hand	Satin Chrome, 10B Dull	713-8 ETL RHRB	**G6696**
Classroom Lever Trim, Left Hand	Satin Chrome, 10B Dull	713-8 ETL LHRB	**G6697**
Passage Lever Trim, Right Hand	Satin Chrome, 10B Dull	715-8 ETL RHRB	**G6698**
Passage Lever Trim, Left Hand	Satin Chrome, 10B Dull	715-8 ETL LHRB	**G6699**
87 Series Exit Devices and Trim			
Exit Device, Vertical Rod, No Outside Operation, Right Hand, 3 ft.	Dull Stainless Steel, Dull Brass	8710F RHR	**G6701**
Exit Device, Vertical Rod, No Outside Operation, Left Hand, 3 ft.	Dull Stainless Steel, Dull Brass	8710F LHR	**G6700**
Exit Device, Vertical Rod, Passage Only, Right Hand, 3 ft.	Dull Stainless Steel, Dull Brass	8715F LHR	**G6702**
Exit Device, Vertical Rod, Passage Only, Left Hand, 3 ft.	Dull Stainless Steel, Dull Brass	8715F RHR	**G6703**
Exit Device, Vertical Rod with Cylinder, Right Hand, 3 ft.	Dull Stainless Steel, Dull Brass	8713F LHR	**G6704**
Exit Device, Vertical Rod with Cylinder, Left Hand, 3 ft.	Dull Brass	8713F RHR	**G6705**
Storeroom Lever Trim, Right Hand	Satin Chrome, 10B Dull	706 ETL RHRB	**G6708**
Storeroom Lever Trim, Left Hand	Satin Chrome, 10B Dull	706 ETL LHRB	**G6709**



FALCON®

Exit Devices, Grade 1

- 19 Series devices fit doors 1¾" thick up to 7-ft. high
- 25 Series devices fit doors 1¾" to 2¼" thick up to 7-ft. high

For assisted living facilities, retail stores, churches, and other commercial buildings that have constant traffic.

Description	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	DARK BRONZE Mfr. Model	DARK BRONZE Item No.
19 Series Exit Devices				
Exit Device, Rim, Long	19-R-EO SP28 4FT	**2RJ66**	—	—
Exit Device, Surface Vertical Rod	19-V-EO SP28 3FT LHR	**4WY74**	—	—
Exit Device Trim, Pull	—	—	930NL SP313 3216	**2RJ73**
Exit Device Trim, Lever, Dane Standard	—	—	914KIL-KD SP313	**2RJ72**
25 Series Exit Devices				
Exit Device, Exit Only, Rim	25-R-EO 3 28	**5YFA5**	—	—
Exit Device, Exit Only, Surface Vertical Rod	25-V-EO 3 28	**5YFA7**	—	—
Exit Device Trim, Pull Entrance by Thumbpiece	512TP SP28	**5YFC3**	512TP SP313	**5YFC2**
Exit Alarm	EAK SP28 3FT	**5YFC4**	—	—
Exit Device Trim, Pull, Entrance by Trim	—	—	512NL SP313	**5YFA8**



No. 19A987

Corbin Russwin® Push/Pull Paddle Tubular Locksets

Corbin Russwin ASSA ABLOY

- Backset: 5"
- Door Thickness: 1¾"

Strong and durable for abusive environments with multiple mounting configurations to accommodate customized openings. Field configurable. Ideal for patient room, bathroom, and closet doors in healthcare environments.

Description	Hand	Finish	Mfr. Model	Item No.
Passage	NH	Stainless Steel	HP3010 630	**19A986**
Privacy	RH	Stainless Steel	HP3020 RH 630	**19A987**
Privacy	LH	Stainless Steel	HP3020 LH 630	**19A988**



DETEX

Exit Devices, Grade 1

- 100dB alarm

Secure and durable panic and fire exit devices help control traffic, deters unauthorized exits, and provides security while protecting property. Feature armed and disarmed field selectable status indicator. Mounting plate and strike locator system offer safety and security in a panic device that is easy to install.

Series	Door Width	Lockdown Type	For Door Thickness	Item No.
Rim Exit Device				
FV40	36"	Less Dogging	1¾" to 2¼"	**44ZV12**
V40	36"	Cylinder Dogging	1¾" to 2¼"	**44ZV26**
Rim Exit Device with Alarm				
ECL-230	34"	Cylinder Dogging	1¾" to 2¼"	**44ZU92**
ECL-230	34"	Cylinder Dogging	1¾" to 2¼"	**44ZU97**
ECL-230	34"	Cylinder Dogging	1¾" to 2¼"	**44ZV03**
V40	36"	Cylinder Dogging	1¾"	**28YA70**
V40	36"	Cylinder Dogging	1¾"	**28YA72**
V40	48"	Cylinder Dogging	1¾"	**28YA74**
Service Verticle Rod Exit Device with Alarm				
V50	36"	Cylinder Dogging	1¾"	**28YA76**



No. 1U109

No. 1U112



No. 1HLC6



No. 1ABN3

ALARM LOCK Yale

Magnetic Exit Door Alarms

Help deter unauthorized use of emergency doors by sounding an alarm when door is opened. Alarm surface mounts on the interior side of the door, and magnetic contacts mount on the door frame. Alarms are reversible for right- and left-hand doors. For indoor use only; mounting hardware included. Key-controlled alarms require a mortise cylinder lock (sold separately).

Standard—Have a low battery warning. No. 1U109 has an amber strobe light for visual identification. Nos. 1U112 and 1U109 include a battery pack; No. 1ABN3 includes a 9V battery.

Slimline—Narrow design takes up less space. No. 6JD82 mounts on inside of door and has a programmable 6-digit keypad to arm and disarm the alarm; No. 6JD81 mounts on the outside. All include 9V battery.

Description	Item No.
Alarm Lock Brand	
Standard Alarm	
Key Controlled	**1U112**
Key Controlled with Strobe	**1U109**
Slimline Alarm	
Key Controlled with Strobe	**1HLC6**
Key Controlled	**1U108**
Keypad Controlled	**6JD82**
Additional Keypad	**6JD81**
Accessories	
Mortise Cylinder, Keyed Alike	**1U004**
Mortise Cylinder, Keyed Different	**1U120**
Replacement 6V Power Pack	**1U106**
Yale Brand	
Standard Alarm	
Key Controlled	**1ABN3**
Accessories	
Mortise Cylinder	**1ABN5**



No. 1U124

No. 1U122

No. 1U111

ALARM LOCK

Alarmed Exit Devices

- 95dB alarm
- Include mounting hardware and battery.

Applying pressure to the push bar retracts the latch from the strike plate and sounds alarm until reset with included key. Aluminum housings. Paddle- and bar-activated deadlatches, a low-battery indicator, and a deadlocking latch that resists tampering. Deadbolt extends 1" into strike plate. Nos. 1U111 and 1U036 require a rim cylinder (sold separately).

Description	Finish	Item No.
Deadlatch, 32" Bar	Aluminum	**1U124**
Deadlatch, 32" Bar, Weatherproof	Brushed Chrome	**1YND5**
Deadlatch, 18" Paddle	Aluminum	**1U122**
Deadlatch, 18" Paddle, Weatherproof	Brushed Chrome	**1YND4**
Deadbolt Paddle, Right	Chrome	**1U111**
Deadbolt Paddle, Left Handed	Chrome	**1U036**
Rim Cylinder, Keyed Alike	—	**1U005**
Rim Cylinder, Keyed Different	—	**1U107**
Delayed Egress Panic Alarm Device	Satin Aluminum	**5MRX1**



Deadlatch



Handle



Paddle

Adams Rite ASSA ABLOY

Aluminum Door Hardware

Deadlatches—A reverse key turn while the bolt is held retracts the latchbolt, allowing 2-way traffic. When latchbolt is extended, exit-only traffic is allowed. Compatible with any standard 1⅝" mortise cylinder where an MS cam is installed. An auxiliary bolt helps prevent shimming.

Deadlatch Handles and Paddles—Include an activator camdisc that mounts on the handle escutcheon and fits into the cylinder hole of the latch.

Description	▶CHOOSE: Hand	Strike Length (in.)	SATIN ALUMINUM Item No.	DARK BRONZE Item No.
Deadlatches, 4510 Series				
1⅛" Backset	RH or LHR, LH or RHR	2⅔, 4⅔	**D1066**	—
1½" Backset	LH or RHR, RH or LHR	2⅔, 4⅔	**D1068**	**D1069**
1⅛" Backset	LH or RHR, RH or LHR	2⅔, 4⅔	—	**D1067**
1½" Backset	RH or LHR	4⅔	—	**D1069**
Deadlatch Handles and Paddles, 4500 Series				
Handle	LH or LHR, RH or RHR	—	**D1071**	—
Paddle	LH, RH	—	**D1072**	**D1074**
Handle	LH, RH or LH	—	—	**D1073**

Door Selection Guide

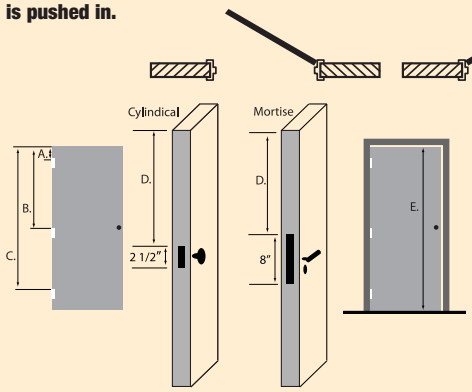
Frame Handing - Select the proper handing.

Right Hand (RH) - Hinges are on the right, door is pushed in.

Left Hand (LH) - Hinges are on the left, door is pushed in.

Right Hand Reverse (RHR) - Hinges are on the right, door is pulled away.

Left Hand Reverse (LHR) - Hinges are on the left, door is pulled away.



A. Measure from top of door to top of upper hinge.

B. Measure from top of door to top of middle hinge.

C. Measure from top of door to top of bottom hinge.

D. Measure from top of door to top of door edge cutout.

E. Measure from inside edge of header to the floor to determine door height.

Door Frames

- 5-3/4" overall jamb depth with a 4⅞" throat opening
- Shipped unassembled

16-ga. cold-rolled steel frame has a 2" face and die-cut mitered corners. Prepped for 3 each of 4½" x 4½" x 0.134" or 0.180" hinges and a 4⅞" ASA universal strike and closer reinforcement. Identify door swing by standing with door swinging forward; if the hinges are on the left, the model is a left-hand door.

Door Designs:

Dim. A Top Hinge (in.)	Dim. B Middle Hinge (in.)	Dim. C Bottom Hinge (in.)	Dim. D Cylindrical Lock From Top (in.)	Dim. D Lockset From Top (in.)	Dim. E Door Height (in.)
Type 1					
6⅝	37⅝	68⅝	36 15/16	34 1/16	80
6⅝	39⅝	72⅝	40 15/16	38 1/16	84
Type 2					
4⅞	35⅛	65⅜	38¾	35⅞	80
4⅞	37⅛	69⅜	42¾	39⅞	84
Type 3					
7⅜	37 5/16	67¼	38 7/16	35 9/16	80
7⅜	39 5/16	71¼	42 7/16	39 9/16	84

Steel Doors

CecoDoor
ASSA ABLOY

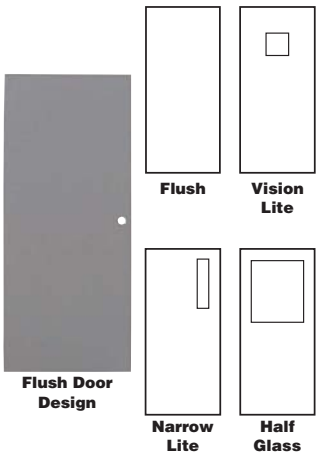
Steel face sheets are supported by kraft honeycomb core for exceptionally flat surfaces with high structural resistance to impact damage. Core has thermal insulation U-factor of 0.41. 1¾"-thick door is nonhanded and comes with a UL fire label. Prime painted and closer reinforced with 3 each of 4½" x 4½" x 0.134" or 0.180" hinge preparations.

Door available with either a Government 161 cylindrical lock prep with 2¾" backset, or an 86 edge only mortise lock prep. Doors with glass have a ¼"-thick clear wire glass with safety film.

Note: Hinges, lockset, and closer are not included.

▶**Please choose:** Door Type: 1, 2, 3

▶**Please choose:** Lock Type: Cylindrical, Mortise



Door Opening Width	Door Opening Height	FLUSH 16 GA. Item No.	FLUSH 18 GA. Item No.	VISION LITE 16 GA. Item No.	VISION LITE 18 GA. Item No.	NARROW LITE 16 GA. Item No.	NARROW LITE 18 GA. Item No.	HALF GLASS 16 GA. Item No.	HALF GLASS 18 GA. Item No.	SERVICE DOOR WITH WINDOW (GLASS NOT INCLUDED) 16 GA. Item No.	SERVICE DOOR WITH WINDOW (GLASS NOT INCLUDED) 18 GA. Item No.
Doors Without Glass											
30"	80"	D3523	D3543	D3618	D3627	D3636	D3645	D3654	D3663	—	—
30"	84"	D3525	D3545	D3619	D3628	D3637	D3646	D3655	D3664	—	—
32"	80"	D3527	D3547	D3621	D3629	D3638	D3647	D3656	D3665	—	D3629
32"	84"	D3529	D3567	D3622	D3631	D3639	D3648	D3657	D3666	—	—
36"	80"	D3533	D3569	D3623	D3632	D3636	D3649	D3658	D3667	—	—
36"	84"	D3535	D3579	D3624	D3633	D3642	D3651	D3659	D3668	—	—
36"	80"	—	—	—	—	D3641	—	—	—	—	—
48"	80"	D3537	D3582	D3625	D3634	D3643	D3652	D3661	D3669	—	—
48"	84"	D3539	D3584	D3626	D3635	D3644	D3653	D3662	D3671	—	—
Doors With Glass											
30"	80"	—	—	D3672	D3681	D3689	D3698	D3707	D3716	—	—
30"	84"	—	—	D3673	D3682	D3691	D3699	D3708	D3717	—	—
32"	80"	—	—	D3674	D3683	D3692	D3701	D3709	D3718	—	—
32"	84"	—	—	D3675	D3684	D3693	D3702	D3711	D3719	—	—
36"	80"	—	—	D3676	D3685	D3694	D3703	D3712	D3721	—	—
36"	84"	—	—	D3677	D3686	D3695	D3704	D3713	D3722	—	—
48"	80"	—	—	D3678	D3687	D3696	D3705	D3714	D3723	—	—
48"	84"	—	—	D3679	D3688	D3697	D3706	D3715	D3724	—	—

SECURALL®

Quick-Mount Steel Doors



No. 23Y727

Constructed of corrosion-resistant, galvannealed steel. Prehung on 12 gauge, fully-welded subframes that are ready to install into preexisting steel door frames. All doors include 3 ball bearing hinges, threshold, a door closer, a set of weatherstripping with door sweep, and preinstalled hardware. H-series and R-series include an exit device and a lever trim with mortise cylinder. H-series includes a 22" W x 30" H or 34" H (for 84" H doors) view light with ceramic glass.

R-series includes a 4" W x 25" H view light with ceramic glass. P-series are full flush doors.

Lock Type	Hand	Door Opening Height	Door Opening Width	Material	Item No.
H Series, 45 Min Fire Rated Door					
Push Bar Rim Exit Device With Locking Trim	RHR	80"	36"	16 Gauge Steel	23Y712
	LHR	80"	36"		23Y713
	RHR	84"	36"		23Y718
	LHR	84"	36"		23Y719
	RHR	80"	36"	18 Gauge Steel	23Y724
	LHR	80"	36"		23Y725
	RHR	84"	36"		23Y730
	LHR	84"	36"		23Y731
P Series, 1 ½ Hr. Fire Rated Door					
Mortise	RHR	80"	36"	16 Gauge Steel	23Y708
	LHR	80"	36"		23Y709
	RHR	84"	36"		23Y714
	LHR	84"	36"		23Y715
	RHR	80"	36"	18 Gauge Steel	23Y720
	LHR	80"	36"		23Y721
	RHR	84"	36"		23Y726
	LHR	84"	36"		23Y727
R Series, 1 ½ Hr. Fire Rated Door					
Push Bar Rim Exit Device With Locking Trim	RHR	80"	36"	16 Gauge Steel	23Y710
	LHR	80"	36"		23Y711
	RHR	84"	36"		23Y716
	LHR	84"	36"		23Y717
	RHR	80"	36"	18 Gauge Steel	23Y722
	LHR	80"	36"		23Y723
	RHR	84"	36"		23Y728
	LHR	84"	36"		23Y729

Steel Doors with Louvers

CecoDoor
ASSA ABLOY

- 1¾"-thick doors

Doors help to improve ventilation and heat transfer in and out of storage areas while maintaining privacy. Suitable for use in boiler rooms, cleaning closets, restrooms, and storage closets where heat or fumes can accumulate.

Door Opening Width	Door Opening Height	▶CHOOSE: Door Type	▶CHOOSE: Lock Type	12" x 12" LOUVERS Item No.	24" x 12" LOUVERS Item No.	24" x 24" LOUVERS Item No.	24" x 60" LOUVERS Item No.
36"	80"	1, 2, 3	Cylindrical, Mortise	D2855	D2861	D2863	D2865
36"	84"	1, 2, 3	Cylindrical, Mortise	D2856	D2862	D2864	D2866
48"	80"	1, 2, 3	Cylindrical, Mortise	D4276	D4278	D4281	D4283
48"	84"	1, 2, 3	Cylindrical, Mortise	D4277	D4279	D4282	D4284



No. D2855


Red Oak

Fire-Rated Wood Doors

CecoDoor ASSA ABLOY

- 1¾" thick
- Shipped unfinished

5-ply plain sliced red oak and rotary natural birch commercial mill doors come prepped with a 2¾" backset. Doors require a light sanding and finishing prior to installation.

Note: Door hardware not included.

Door Opening Width	Door Opening Height	▶CHOOSE: Door Type	Lock Type	RED OAK WOOD LEFT-HAND Item No.	RED OAK WOOD RIGHT-HAND Item No.	ROTARY NATURAL BIRCH LEFT-HAND Item No.	ROTARY NATURAL BIRCH RIGHT-HAND Item No.
20-Min. Fire Rating							
36"	80"	1, 2, 3	Cylindrical	D2937	D2939	D2942	D2944
36"	84"	1, 2, 3	Cylindrical	D2938	D2941	D2943	D2945
90-Min. Fire Rating							
36"	80"	1, 2, 3	Cylindrical	D2946	D2948	D2951	D2953
36"	84"	1, 2, 3	Cylindrical	D2947	D2949	D2952	D2954



Steel-Stiffened Doors

CecoDoor ASSA ABLOY

- 18-ga. steel
- 1¾"-thick doors

Designed to take most abuse without failure. 22-ga. steel stiffeners are placed inside the door every 6" and welded every 5" along the length of the stiffener. Fiberglass insulation between the stiffeners helps deaden sound. Door top and bottom are sealed with a 16-ga. steel channel welded in place. Doors are handed; come with closer reinforcement.

Door Opening Width	Door Opening Height	Fire Rating	▶CHOOSE: Lock Type	LEFT-HAND Item No.	RIGHT-HAND Item No.
36"	84"	3 hr.	Cylindrical, Mortise	D2914	D2915



6-Panel Embossed Steel Doors

CecoDoor ASSA ABLOY

- 18-ga. A40 galvanized steel
- 1¾"-thick doors

The durability of steel with the pleasing appearance of a wood door. Polystyrene insulated core is bonded to the interior of the steel skin. Doors have closer reinforcement.

Door Opening Width	Door Opening Height	▶CHOOSE: Frame Type	▶CHOOSE: Lock Type	Item No.
36"	80"	1, 2, 3	Cylindrical, Mortise	D2916
36"	84"	1, 2, 3	Cylindrical, Mortise	D2917


Armor Plate


Kick Plate


Stretcher Plate


Mop Plate

ROCKWOOD ASSA ABLOY ★ GA GRAINGER APPROVED

Door Protection Plates

- Plates are 0.05" thick except Diamond-Tread Aluminum are 0.075"; 6" and 8" widths are 0.040"; 10" widths and above are 0.063"
- Come with mounting holes and screws

Protect doors from scratches and dents caused by collisions from gurneys, carts, hand trucks, or heavy equipment. Choose a plate 2" narrower than door.

H	W	Brand	Dull 316 Stainless Steel Item No.	Dull 304 Stainless Steel Item No.	Diamond Tread Aluminum Item No.	Dull Aluminum Item No.	Bright Brass Item No.	Dull Bronze Item No.
Armor Plates								
16"	34"	Rockwood	2RFW6	2RFR9	—	2RFZ3	2RGH8	2RGC9
24"	34"	Rockwood	2RFU9	—	—	—	2RGG4	2RGA3
34"	24"	Rockwood	—	—	—	2RFX6	—	—
34"	34"	Rockwood	2RFW7	2RFU2	—	—	2RGH9	2RGD1
34"	34"	Rockwood	—	—	—	2RFZ4	—	—
34"	36"	Rockwood	2RFW8	—	—	—	—	2RGD2
34"	42"	Rockwood	2RFW9	—	—	—	2RGJ2	2RGD3
34"	42"	GA	—	—	2RGF7	—	—	—
42"	34"	Rockwood	—	—	—	2RFZ6	—	—
Kick/Stretcher Plates								
8"	28"	Rockwood	2RFV2	2RCH9	—	2RFX8	—	2RGA5
8"	30"	Rockwood	2RFV8	—	—	—	5U651	2RGC2
8"	34"	Rockwood	—	—	—	2RFY9	—	2RGC6
8"	36"	Rockwood	2RFX2	—	—	—	2RGJ4	2RGD5
8"	40"	Rockwood	2RFX5	—	—	—	5U653	2RGD8
10"	28"	Rockwood	2RFV3	2RFN9	—	2RFX9	—	2RGA6
10"	30"	Rockwood	2RFV9	2RFR1	—	2RFY6	2RGH3	2RGC3
10"	34"	Rockwood	2RFW4	—	—	—	2RGH6	2RGC7
10"	34"	Rockwood	—	—	—	2RFZ1	—	—
10"	36"	Rockwood	2RFX3	2RFU7	—	2RFZ9	2RGJ5	2RGD6
12"	28"	Rockwood	2RFV4	2RFP2	—	2RFY1	2RGG8	2RGA7
12"	30"	Rockwood	2RFW1	2RFR3	—	2RFY7	2RGH4	2RGC4
12"	34"	Rockwood	—	—	—	—	2RGH7	2RGC8
12"	34"	Rockwood	—	—	—	2RFZ2	—	—
12"	36"	Rockwood	2RFX4	2RFU8	—	—	2RGJ6	2RGD7
Mop Plates								
6"	28"	Rockwood	2RFV1	2RCH8	—	—	2RGG5	2RGA4
6"	30"	Rockwood	2RFV7	2RFP8	—	2RFY4	2RGH2	2RGC1
6"	34"	Rockwood	2RFW2	—	—	2RFX7	2RGH5	2RGC5


No. 3HJF9


No. 3HJF7

No. 3HJG1

No. 3HJG3

Door Hardware Protectors

ROCKWOOD ASSA ABLOY

Protect door hardware from damage caused by moving carts, gurneys, and hand trucks.

Length	Width	Projection	Center to Center Length	Hand	Item No.
Lever Door Trim Protector Bars					
—	—	3¼"	8"	—	3HJF9
—	—	3¼"	12"	—	3HJF6
Exit Device Protector Bars					
—	—	3¼"	7½"	—	3HJF7
—	—	4½"	8½"	—	3HJF8
Vertical Rod Covers					
12"	3¼"	1⅝"	—	—	3HJG1
24"	3¼"	1⅝"	—	—	3HJG2

Length	Width	Projection	Center to Center Length	Hand	Item No.
Latch Guard Covers					
10"	6"	2⅜"	—	Left	3HJG3
10"	6"	2⅜"	—	Right	3HJG4
12"	6"	2⅜"	—	Left	3HJG5
12"	6"	2⅜"	—	Right	3HJG6
16"	6"	2⅜"	—	Left	3HJG7
16"	6"	2⅜"	—	Right	3HJG8
Door Coordinators					
For Use With 72" Door Openings					3HJH1



No. G2325



No. 3CEV8



No. G2328 - White



No. G2328 - Dark Bronze



No. 2RRF1



No. 2RRE6

GA GRAINGER APPROVED | PEMKO ASSA ABLOY | NGP | Frost King

Weatherstripping and Seals

▪ Sold by the roll

Apply to inside of door frame and around windows to seal gaps quickly.

FIRE/SMOKE SEALS

For use with wood fire doors rated for 90 min.

Fire and Smoke Seals—Use to help seal off both fire and smoke.

Fire Seals—Graphite material expands at high temperatures to seal gaps and help prevent the spread of fire.

Smoke Seals—Help prevent smoke passage at temperatures up to 800°F.

FOAM SEALS

Nitrile Sponge Rubber—Highly compressible; can be used outdoors.

Closed Cell—Use to fill larger gaps; can be used outdoors.

Open Cell—Easy to compress; suitable for tight-fitting applications.

Pile—Polypropylene material helps reduce rattling.

EPDM RUBBER

Durable rubber stays flexible in extremely hot and cold temperatures. Blocks out drafts and dust around doors and windows.

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Brand	Item No.
Adhesive Backed Fire and Smoke Seals					
Silicone Compression Bulb					
20 ft.	1/2"	1/4"	Black, White	GA	G2324
18 ft.	1/2"	1/4"	Dark Bronze	Pemko	2EVA6
300 ft.	1/2"	1/4"	Brown, Charcoal	NGP	G2325
TPE Fin, For Use With Tight Doors					
4 ft.	3/4"	1/2"	Brown	National Guard	3CEV9
18 ft.	7/16"	23/64"	Dark Bronze	Pemko	2EVA5
Adhesive Backed Fire Seals					
Graphite					
10 ft.	7/16"	3/64"	Graphite	Pemko	3EGP6
18 ft.	7/16"	3/64"	Gray	Pemko	2EVA4
21 ft.	7/16"	3/64"	Graphite	Pemko	3EGP7
Graphite with TPE Smoke Fin					
3 ft.	3/4"	1/2"	Brown	NGP	3CEV8
7 ft.	3/4"	1/2"	Brown	NGP	3CEW1
Adhesive Backed Smoke Seals					
Silicone Compression Bulb					
18 ft.	1/2"	1/4"	Dark Bronze, White	Pemko	G2326
25 ft.	1/2"	1/4"	Dark Bronze, White	Pemko	G2327
204 ft.	1/2"	1/4"	Dark Bronze, White	Pemko	G2328
Silicone					
330 ft.	1/2"	1/4"	Black	GA	5MFN2
Silicone Triple Fins, For Use with Metal Doors					
17 ft.	1/2"	3/8"	Dark Bronze, White	Pemko	G2329
TPE Fin, Self-Adhesive					
3 ft.	7/16"	7/16"	Brown, Charcoal	National Guard	G2330
4 ft.	7/16"	7/16"	Brown, Charcoal	NGP	G2331
6 ft.	7/16"	7/16"	Brown, Charcoal	National Guard	G2332
7 ft.	7/16"	7/16"	Brown, Charcoal	NGP	G2333
8 ft.	7/16"	7/16"	Brown, Charcoal	NGP	G2334
9 ft.	7/16"	7/16"	Brown, Charcoal	NGP	G2335
Foam Seals					
Nitrile Sponge Rubber					
10 ft.	3/8"	3/16"	Black, White	Frost King	H3681
10 ft.	3/8"	5/16"	Black, White	Frost King	H3682
10 ft.	3/8"	7/16"	Black, White	Frost King	H3684
10 ft.	1/2"	1/4"	Black	GA	2RRF1
10 ft.	1/2"	5/16"	Black	Frost King	43Y814
PVC					
10 ft.	1/2"	3/8"	Black	GA	2RRF3

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Brand	Item No.
Nitrile Sponge Rubber					
10 ft.	1/2"	9/16"	Black	Frost King	43Y820
10 ft.	3/4"	1/4"	Black	GA	2RRF2
PVC					
10 ft.	3/4"	3/8"	Black	GA	2RRF4
Nitrile Sponge Rubber					
10 ft.	3/4"	5/16"	Black, White	Frost King	H3683
10 ft.	3/4"	7/16"	Black, White	Frost King	H3685
10 ft.	1 1/4"	7/16"	Black, White	Frost King	H3959
PVC Closed Cell Foam					
17 ft.	3/8"	3/16"	Gray	GA	2RRE4
17 ft.	1/2"	1/4"	Gray	GA	2RRE5
10 ft.	3/4"	1/2"	Gray	GA	2RRE6
10 ft.	1 1/4"	3/8"	Black	GA	5MFG7
10 ft.	1"	1/4"	Black	GA	5MFG8
Polyurethane Open Cell Foam					
17 ft.	1/2"	1/4"	Gray	GA	2RRE7
17 ft.	1/2"	3/8"	Gray	GA	2RRE8
17 ft.	3/4"	1/2"	Gray	GA	2RRE9
Polypropylene Pile					
17 ft.	1/4"	7/32"	Gray	GA	2RRR8
EPDM Rubber, Adhesive Backed, P Profile					
17 ft.	3/8"	7/32"	Brown	GA	G2338
200 ft.	3/8"	—	Brown, Black	GA	G2339
EPDM Rubber, Adhesive Backed, D Profile					
17 ft.	23/64"	—	White	GA	G2340
17 ft.	23/64"	9/16"	Black	GA	G2340
200 ft.	23/64"	—	White, Black	GA	G2341
EPDM Rubber, Adhesive Backed, All Profile					
10 ft.	19/32"	—	Brown, White, Black	GA	G2342
200 ft.	19/32"	—	Black	GA	G2343
EPDM Rubber, Adhesive Backed, V-Seal					
17 ft.	7/8"	—	White	Frost King	43Y829
EPDM Rubber, Adhesive Backed, Cushion Ribbed					
10 ft.	9/16"	5/16"	White, Gray	Frost King	H3960
Nail/Tacked/Stapled					
17 ft.	5/8"	3/16"	Gray	Frost King	43Y830
17 ft.	1 1/4"	3/16"	Gray	Frost King	43Y831
17 ft.	1/2"	—	White, Brown	Frost King	H3961





Face-Mount Overhead Door Seals

Mount to overhead doors and docks to help keep out dust and drafts. Neoprene inserts.

Flat Insert—Mount on bottom or edge of door. Seals require min. ¾" space between door and floor.

Looped Insert—Mount on bottom of door.

L (ft.)	Flange Height (in.)	Flange Material	Insert Size	Projection (in.)	Mfr. Model	Item No.
Neoprene Flat Insert						
6	⅞	Steel	1½"	¼	197NA-6	**3HRV3**
8	⅞	Steel	1½"	¼	197NA-8	**3HRV4**
10	⅞	Steel	1½"	¼	197NA-10	**3HRV5**
12	⅞	Steel	1½"	¼	197NA-12	**3HRV6**
Neoprene Looped Insert						
10	1⅛	Aluminum	1⅝"	1⅛	81369N-10	**3HRV7**
15	1⅛	Aluminum	1⅝"	1⅛	81369N-15	**3HRV8**





Base-Mount Overhead Door Seals

GRAINGER APPROVED

Mount to overhead door bottoms to seal gaps up to ¾" between door and floor. Seals remain flexible to -20°F. No. 3CEX9 includes two 4½-ft. aluminum flanges and one 9-ft. long rubber insert. No. 3CEY1 includes four 4½-ft. aluminum flanges and one 18-ft. long rubber insert.

L (ft.)	Flange Width (in.)	Flange Height (in.)	Insert Size	Insert Material	Includes	Item No.
Aluminum Flange						
9	1⅝	¼	¾"	TPE Rubber	(2) 4 ½ Ft Metal Flanges, 9 Ft Long Neoprene Insert, and #6 x ¾ In Stainless Steel Sheet Metal Screws	**3CEX9**
18	1⅝	¼	¾"	TPE Rubber	(4) 4 ½ Ft Metal Flanges, 18 Ft Long Neoprene Insert, and #6 x ¾ In Stainless Steel Sheet Metal Screws	**3CEY1**
No Flange						
9	2	1	1¼"	TPE Rubber	(18) 1" Nails, (1) Black Plastic Cap	**2RRT9**
16	2	1	1¼"	TPE Rubber	(36) 1" Nails, 1" Black Plastic Cap	**2RRU1**
100	2	1	1¼"	TPE Rubber		**2RRU2**

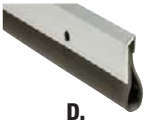
















Door Sweeps

GRAINGER APPROVED

Fill the gap below the door and help keep out drafts, light, dust, and weather. Mounting holes included. For inside or outside applications on residential and commercial doors.

A. Single-Fin—Seal door and threshold gaps up to ¾". Neoprene and EPDM material resist weather and remain flexible in cold temperatures.

B. Triple-Fin—Multiple layers provide a positive seal for uneven floors. Seal gaps up to ¾".

C. Nylon Brush Insert—Fibers fill gaps and sweep dirt, insects, and snow away from door. Oak flange can be painted or stained.

D. Reinforced Neoprene Insert, Looped—Create dead air space to insulate against drafts and hold sweep tightly against floor.

E. Drip Cap—Divert rain and debris away from door.

F. Spring-Loaded Door Bottom—Spring lowers door sweep automatically when door is closed. For use on swing-in doors.

Key	Flange Material	Flange Height (in.)	Insert Size	Projection (in.)	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.
Single-Fin, Vinyl Insert						
A	Aluminum	¾	⅞"	¼	—	**3EGU3**
A	Aluminum	1 3⁄16	1 31⁄32"	¼	**2RRG3**	**2RRG4**
Single-Fin, Neoprene Insert						
A	Anodized Aluminum	1¼	7⁄16"	¼	**3EGP9**	**3EGR1**
A	Anodized Aluminum	1	2"	⅜	**5MUK1**	**5MUK2**
A	Dark Bronze Aluminum	1¼	7⁄16"	¼	**3EGR2**	**3EGR3**
A	Dark Bronze Aluminum	1	2"	⅜	**5MUK3**	**5MUK4**
A	Stainless Steel	1¼	5⁄16"	3⁄16	**3EGT5**	**3EGT6**
Single-Fin, EPDM Rubber Insert						
A	Aluminum	1 3⁄16	1 9⁄16"	15⁄64	**2RRG5** *	**2RRG6** *
A	Dark Brown Aluminum	1 3⁄16	15⁄64"	15⁄64	**2RRG7** *	**2RRG8** *
Triple-Fin, Vinyl Insert						
B	Aluminum	23⁄32	⅞"	13⁄64	**1VZT1**	—
B	White Aluminum	23⁄32	⅜"	13⁄64	**1VZT2**	—
B	Hardwood	1¼	1"	¼	**2RRH1**	—
B	Bronze	23⁄32	⅞"	13⁄64	**1VZT3**	—
Nylon Brush Insert						
C	Anodized Aluminum	¾	⅝"	¼	**3EGR6**	**3EGR7**
C	Dark Bronze Aluminum	¾	⅝"	¼	**3EGT7**	**3EGT8**
C	Anodized Aluminum	⅞	⅝"	¼	**3EGT1**	**3EGT2**
C	Unfinished Oak Wood	1	9⁄16"	⅜	**3EGT4**	—
C	Unfinished Oak Wood		15⁄16"	⅜	**3EGT3**	—
C	Aluminum	⅝	7⁄16"	3⁄16	—	**2RRH3** *
C	Bronze	⅝	7⁄16"	3⁄16	—	**2RRH5** *
Reinforced Neoprene Insert, Looped						
D	Anodized Aluminum	¾	1"	¼	**3HRH8**	**3HRH9**
Drip Cap, Vinyl Insert						
E	Aluminum	1½	1 19⁄64"	⅝	**2RRH6** *	**2RRH7** *
Drip Cap, Nylon Brush Insert						
E	Aluminum	1½	7⁄16"	9⁄16	—	**3EGR5**
E	Bronze	1⅜	9⁄16"	13⁄64	**2RRH9**	—
Spring-Loaded Door Bottom, Vinyl Insert						
F	Aluminum	1½	⅞"	11⁄32	**2RRJ1**	—

Key	Flange Material	Flange Height (in.)	Insert Size	Projection (in.)	7-FT. LENGTH Item No.	8-FT. LENGTH Item No.
Nylon Brush Insert, Looped						
C	Anodized Aluminum	¾	⅝"	¼	**3EGR8**	**3EGR9**
Rubber Insert, Looped						
D	Anodized Aluminum	¾	1"	¼	**3HRJ1**	**3HRJ2**

** UL Classified.*





Door Sweeps

Keep out drafts, dust and debris from below doors. Anodized aluminum construction.

Insert Size	Flange Height	Projection	3 ft. LENGTH Item No.	4 ft. LENGTH Item No.
Single Fin Neoprene				
7⁄16"	1¼"	3⁄16"	**44ZZ69**	**45AA68**
½"	1⅛"	¼"	**45AD19**	**45AE23**
1 3⁄16"	1¼"	3⁄16"	**45AD72**	**45AC46**
Single Fin Vinyl				
¾"	1⅛"	¼"	**45AA15**	**45AD78**

GA GRAINGER APPROVED

Double Door Weatherstripping

Seals the space between wood and metal double doors.

Nylon Brush Insert—Mesh the insert together to seal a gap.

EPDM Insert—Overlaps to seal the gap. Sold in sets of 2 strips.

Pile Insert—Spring-loaded polypropylene insert adjusts in ⅛" increments for proper fit.

Solid Metal Flat Astragal—Mounts to stationary door. Covers gap between double doors.

Magnetic Insert—Seals gap between 80" to 96" doors with a magnet and detaches when door opens.

Flange Width	Insert Size	Projection	Flange Thickness	Max. Door Gap	7-FT. LENGTH	8-FT. LENGTH
Nylon Brush Insert						
Anodized Aluminum Flange						
⅝"	7/16"	¼"	3/64"	¼"	2RRP3	—
⅝"	7/16"	¼"	3/64"	⅛"	—	2RRP4
⅝"	7/16"	¼"	3/16"	¾"	—	3HRF7
Aluminum Flange						
⅝"	7/16"	¼"	3/64"	⅛"	2RRP5	—
EPDM Insert						
Anodized Aluminum Flange						
15/16"	⅝"	3/16"	3/16"	¼"	5MUL1	5MUL2
Dark Bronze Aluminum Flange						
15/16"	⅝"	3/16"	3/16"	¼"	5MUL3	5MUL4
Pile Insert						
Anodized Aluminum Flange						
7/16"	⅛"	9/16"	1 3/16"	9/16"	3HRG1	3HRG2
Solid Metal Flat Astragal						
Primed-Finish Steel						
2"	—	⅛"	⅛"	⅛"	3HRH2	3HRH3
Primed-Aluminum						
2"	—	⅛"	—	⅛"	—	2RRR5
Magnetic Insert						
Anodized Aluminum						
2 1/4"	¼"	11/16"	5/64"	⅛"	5MUK7	5MUK8


No. 2RRP5


No. 3HRG1


No. 2RRR5

Stays Flexible to	Flange Material	Insert Color	Flange Height	Insert Size	Projection	Flange Thickness	▶CHOOSE: Overall Length	Item No.
Neoprene								
-20° to 200°F	Aluminum	Black	⅝"	½"	11/16"	1/16"	3 ft., 4 ft., 7 ft., 8 ft.	J5646
-20° to 200°F	Stainless Steel	Black	¼"	¼"	3/16"	1/32"	3 ft., 4 ft., 7 ft., 8 ft.	J5647
-20° to 200°F	Aluminum	Black	5/16"	⅛"	5/16"	3/32"	3 ft., 4 ft., 7 ft., 8 ft.	J5648
-20° to 200°F	Stainless Steel	Black	¼"	⅛"	3/16"	1/32"	7 ft., 8 ft.	J5649
Nylon								
-70° to 425°F	Aluminum	Gray	5/16"	½"	⅝"	1/16"	3 ft., 4 ft., 7 ft., 8 ft.	J5650
-70° to 425°F	Aluminum	Gray	5/16"	½"	⅝"	1/16"	3 ft., 4 ft., 7 ft., 8 ft.	J5651
-70° to 425°F	Aluminum	Gray, Black	¼"	1/16"	¼"	1/16"	9 ft., 7 ft., 8 ft.	J5652
Silicone								
—	Aluminum	Gray	—	¼"	½"	1/16"	7 ft., 4 ft.	J5716
-100°F	Aluminum	Black	5/16"	⅛"	5/16"	3/32"	3 ft., 4 ft., 7 ft., 8 ft.	J5653
-100°F	Aluminum	Gray	¼"	5/16"	5/16"	1/16"	3 ft., 4 ft., 7 ft., 8 ft.	J5654
-100°F	Aluminum	Black	5/16"	5/16"	5/16"	1/16"	4 ft. x 7 ft., 6 ft. x 7 ft., 8 ft. x 7 ft., 3 ft., 4 ft., 7 ft., 8 ft.	J5654
Vinyl								
0° to 140°F	Aluminum	Gray	¼"	¼"	¼"	1/16"	3 ft., 4 ft., 7 ft., 8 ft.	J5655
0° to 140°F	Aluminum	Gray	¼"	⅛"	¼"	1/16"	7 ft., 8 ft.	J5656
0° to 140°F	Aluminum	Gray	5/16"	5/16"	5/16"	1/16"	3 ft. x 7 ft., 6 ft. x 7 ft., 7 ft.	J5657
0° to 140°F	Aluminum	Gray	¼"	5/16"	5/16"	¼"	3 ft., 4 ft., 6 ft., 7 ft.	J5658
0° to 140°F	Aluminum	Gray	¼"	5/16"	5/16"	¼"	3 ft., 4 ft., 6 ft., 7 ft.	J5659


No. J5650


No. J5646

Adjustable Door Frame Weatherstripping

NGP NATIONAL GUARD PRODUCTS

Adjustable door frame weatherstrip creates an interior sound seal on doors that do not sit plumb and square. Use with wood fire doors rated for 90 min. and metal fire doors rated for 3 hr.

Door Frame Weatherstripping

GA GRAINGER APPROVED

Mounts on top and sides of door frame to seal gaps.

Hollow Bulb Inserts—Compress easily, stay flexible in extremely low temperatures.

Sponge Insert—Material provides a dense, abrasion-resistant seal.

Flexible Nylon Brush—Dense fibers fill gaps and help keep out insects.

Magnetic—Flexible, vinyl-covered magnet seals against metal doors.

Corrosion-Resistant—Stainless steel flange holds up to harsh weather.

Kerf—Conforms to irregular surfaces to create a tight seal. Installs in kerf-in door stop. For use with steel doors.

Adjustable—Creates an interior sound seal on doors that do not sit plumb and square. Use with wood fire doors rated for 90 min. and metal fire doors rated for 3 hr.


No. 3EGY1


No. 3EGY6

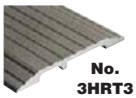

No. 3EGZ7

Overall Length	Flange Finish	Insert Color	Flange Height	Flange Thickness	Insert Size	Projection	Item No.
Adjustable, Neoprene w/Aluminum Flange							
3 ft.	Aluminum	Black	1 ¼"	½"	¼"	½"	5MUH1
4 ft.	Aluminum	Black					5MUH2
6 ft.	Dark Bronze	Black					5MUH7
7 ft.	Aluminum	Black					5MUH4
Corrosion Resistant, Neoprene w/Stainless Steel Flange							
3 ft.	Brushed Stainless	Black	1 ¾"	1/32"	½"	⅜"	3HRV9
4 ft.	Brushed Stainless	Black					3HRW1
7 ft.	Brushed Stainless	Black					3HRW3
8 ft.	Brushed Stainless	Black					3HRW4
Flexible Nylon Brush, Nylon Brush w/Anodized Aluminum Flange							
3 ft.	Aluminum	Gray	¾"	1/16"	7/16"	9/16"	5MKN5
3 ft.	Dark Bronze	Black					5MKN9
4 ft.	Aluminum	Gray					5MKN6
4 ft.	Dark Bronze	Black					5MKP0
6 ft.	Aluminum	Gray					5MKN7
6 ft.	Dark Bronze	Black					5MKP1
7 ft.	Aluminum	Gray					5MKN8
7 ft.	Dark Bronze	Black					5MKP2
Flexible Nylon Brush, Nylon w/Anodized Aluminum Flange							
3 ft.	Clear	Gray	7/16"	1/16"	⅝"	9/32"	3EGY6
3 ft.	Dark Bronze	Black					3EGZ2
4 ft.	Clear	Gray					3EGY7
4 ft.	Dark Bronze	Black					3EGZ3
7 ft.	Dark Bronze	Black					3EGZ5
8 ft.	Dark Bronze	Black					3EGZ6
Hollow Bulb, Neoprene w/Anodized Aluminum Flange							
3 ft.	Clear	Black	1 ½"	3/64"	5/16"	3/16"	3EGW4
3 ft.	Aluminum	Black		¼"	3/16"	¼"	5MKP3
3 ft.	Dark Bronze	Black					5MKP7
4 ft.	Clear	Black	⅞"	5/64"	5/16"	3/16"	3EGW5
4 ft.	Aluminum	Black	1 ½"	¼"	3/16"	¼"	5MKP4
4 ft.	Dark Bronze	Black					5MKP8
6 ft.	Aluminum	Black					5MKP5
6 ft.	Dark Bronze	Black					5MKP9
7 ft.	Clear	Black	⅞"	5/64"	5/16"	3/16"	3EGW7
7 ft.	Aluminum	Black	1 ½"	¼"	3/16"	¼"	5MKP6
7 ft.	Dark Bronze	Black					5MKR0
8 ft.	Clear	Black	⅞"	5/64"	5/16"	3/16"	3EGW8

Overall Length	Flange Finish	Insert Color	Flange Height	Flange Thickness	Insert Size	Projection	Item No.
Hollow Bulb, Silicone w/Anodized Aluminum Flange							
4 ft.	Clear	Black	⅞"	5/64"	5/16"	3/16"	3EGV9
7 ft.	Clear	Black					3EGW2
8 ft.	Clear	Black					3EGW3
Hollow Bulb, Sponge Silicone w/Anodized Aluminum Flange							
3 ft.	Clear	Black	¾"	1/16"	¼"	¼"	3EGW9
4 ft.	Clear	Black					3EGX1
7 ft.	Clear	Black					3EGX3
8 ft.	Clear	Black					3EGX4
Hollow Bulb, Vinyl w/Unfinished Aluminum Flange							
3 ft.	Clear	Gray	½"	1/16"	¼"	¼"	3EGX5
4 ft.	Clear	Gray					3EGX6
7 ft.	Clear	Gray					3EGX8
8 ft.	Clear	Gray					3EGX9
Kerf, Polyurethane Foam							
7 ft.	—	White	½"	¼"	½"	13/16"	2RRT3
81"	—	Brown					2RRT4
Kerf, TPR Vinyl Magnetic							
—	Mill	Brown	⅝"	¼"	½"	⅜"	2RRP2 ‡
16½ ft.	Mill	Beige					2RRP1 ‡
Magnetic w/Anodized Aluminum Flange							
3 ft.	Clear	Black	1 1⁄8"	1/16"	3/16"	⅝"	3EGZ7
3 ft.	Dark Bronze	Black					3EHA2
4 ft.	Clear	Black					3EGZ8
4 ft.	Dark Bronze	Black					3EHA3
7 ft.	Dark Bronze	Black					3EHA5
8 ft.	Dark Bronze	Black					3EHA6
Sponge, Polyurethane Foam w/Aluminum Flange							
17 ft.	Powder Coated	Brown	1 1⁄8"	¼"	¾"	⅝"	2RRT2 †
17 ft.	Mill	White					2RRT1 †
Sponge, Sponge Neoprene w/Anodized Aluminum Flange							
3 ft.	Clear	Black	1"	1/16"	⅜"	11/16"	3EGY1
4 ft.	Clear	Black					3EGY2
7 ft.	Clear	Black					3EGY4
8 ft.	Clear	Black					3EGY5
Vinyl w/Unfinished Aluminum Flange							
7 ft.	—	Gray	⅞"	3/16"	9/32"	9/32"	1VZR8 †

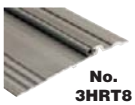
** Set includes two 84" side strips and one 72" top strip. † Set includes two 84" side strips and one 36" top strip. ‡ Set includes two 82" side door strips and one 36" top door strip.*


No. 5MUN6


No. 3HRT3

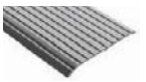

No. 5MFH7


No. 1VZR4


No. 3HRT8


No. 5EPD7


No. 2RRL7


No. 5MUN9

Saddles and Door Thresholds

GRAINGER APPROVED

- Additional thresholds available on Grainger.com®

Fill and cover gaps under doors.

Finish	W	H	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.
Saddles—Plain Top					
Aluminum	2½"	¼"	2RRK7 *	3HRN1	3HRN2
Aluminum Mill	3"	¼"	5MUN3	5MUN4	5MUN5
Dark Bronze	3"	¼"	5MUN6	5MUN7	5MUN8
Saddles—Fluted Top					
Aluminum	4"	½"	3HRN3	3HRN4	3HRN5
Aluminum	4"	½"	1VZR2 †	—	2RRK8
Aluminum	4"	¼"	3HRP9	3HRR1	3HRR2
Aluminum	5"	½"	1VZR3 †	3HRP1	2RRL2
Aluminum	5"	¼"	3HRN6	3HRN7	3HRN8
Aluminum	5"	¼"	2RRK9 †	—	—
Aluminum	6"	½"	2RRL3 †	3HRP4	2RRL4
Aluminum	6"	¼"	5MFJ4	—	5MFJ5
Aluminum	7"	½"	3HRP6	3HRP7	3HRP8
Aluminum	6¾"	½"	3HRR3 †	3HRR4 †	3HRR5 †
Nonskid Aluminum	5"	½"	3HRT3 †	3HRT4 †	3HRR8
Mill	5"	¼"	—	—	2RRL1
Surface Mount Threshold					
Aluminum	1¾"	⅛"	5MFH7	—	—
Vinyl Insert Thresholds					
Aluminum	3¼"	¾"	1VZR4 *	—	—
Panic Exit Thresholds					
Aluminum	5"	½"	3HRT8	3HRU1	3HRU2
Solid Vinyl Thresholds					
Matte	3 1/16"	23/32"	5EPD7	—	—
Door Bumper Thresholds					
Aluminum	3-1/6"	⅝"	2RRL7 *	—	—
Aluminum	5"	½"	—	3HRU4	—
Aluminum Mill	5"	1"	5MUM1	5MUM2	5MUM3
Aluminum Mill	5"	⅞"	5MUM7	5MUM8	5MUM9
Offset Thresholds					
Aluminum Mill	5½"	½"	5MUN9	5MUP0	5MUP1
Dark Bronze	5½"	½"	5MUP2	5MUP3	5MUP4

** Not UL Classified. † Heavy-duty aluminum.*


No. 45AA54

Saddles and Door Thresholds

NGP NATIONAL GUARD PRODUCTS

Features fluted top to fill and cover gaps under doors. Aluminum construction.

W	H	3 ft. LENGTH Item No.	4 ft. LENGTH Item No.	6 ft. LENGTH Item No.
5"	¼"	45AE53	45AC60	44ZZ80
5"	½"	45AC27	44ZZ27	45AD39
6"	¼"	45AE59	45AA54	45AC82
8"	¼"	45AC22	45AA03	45AA95
8"	½"	44ZZ50	45AC39	45AC80
10"	½"	44ZZ65	45AC30	45AD23


Drywall
No. 2VE72


Plastic
No. 5YM02


Standard, Steel
No. 1UEX1

TOUGH GUY

Access Doors

Conceal wall openings with a secure cover that can be finished to match wall color.

ACOUSTICAL, FOR DRYWALL

16-ga. steel door with continuous piano hinge. Allen hex head operated cam latch.

ADJUSTABLE

20-ga. steel door. Adjustable by 1½" in height and width. Magnetic latching mechanism.

DRYWALL

16-ga. door and frame with drywall corner bead flange. Flush mounted with concealed pin hinge. Screwdriver operated cam latch.

FIRE-RATED, INSULATED, STANDARD

16-ga. steel frame and 20-ga. steel door with automatic panel closer and inside release. Self latching tool or ring operated slam latch. 2" mineral wool insulation for a 2-hr. fire barrier and 1½-hr., B label. Fire rating of 1½ hr. in walls, 3 hr. in noncombustible ceilings and 1 hr. in combustible ceilings.

Upward-Swinging—

For ceilings only. Same as fire rated insulated model but the panel swings up and shuts down by way of gravity instead of springs.

FIRE-RATED, UNINSULATED, STANDARD

16-ga. steel door for vertical fire-rated surface only where temperature rise protection is not required. Fire rating of 1½ hr. B-Label for 2-hr. rated walls.

HIDDEN FLANGE

16-ga. exclusive steel door. Flush mount with european-type hinge. Screwdriver-operated cam latch.

INSULATED, ALUMINUM

16-ga., corrosion-resistant aluminum door and frame. Feature 1"-thick insulation and gasket around perimeter.

MEDIUM SECURITY

14-ga. steel with baked-on paintable prime coat. Continuous piano hinge and key-operated cylinder lock.

PLASTIC

High-impact, noncorrosive ABS plastic doors are UV stabilized for exterior use. No. 5YM02 has punch-outs for electric and plumbing.

STANDARD

Steel—16-ga. steel door with flush-mount doors with pin hinge (continuous piano hinge for Nos. 2VE87 and 2VE88). Screwdriver-operated cam latch.

Stainless Steel—Corrosion-resistant door and frame.

Door Dim. W	Door Dim. H	Rough Opening W	Rough Opening H	Item No.
Acoustical For Drywall				
Hex Head Cam Latch				
8"	8"	8¼"	8¼"	16M220
12"	12"	12¼"	12¼"	16M221
24"	24"	24¼"	24¼"	16M222
Adjustable (4) Magnets				
8" to 9½"	8" to 9½"	8" to 9½"	8" to 9½"	20TL31
10" to 11½"	10" to 11½"	10" to 11½"	10" to 11½"	20TL32
12" to 13½"	12" to 13½"	12" to 13½"	12" to 13½"	20TL33
14" to 15½"	14" to 15½"	14" to 15½"	14" to 15½"	20TL34
Screwdriver Operated Cam Latch and (4) Magnets				
6" to 7½"	6" to 7½"	6" to 7½"	6" to 7½"	20TL35
8" to 9½"	8" to 9½"	8" to 9½"	8" to 9½"	20TL36
10" to 11½"	10" to 11½"	10" to 11½"	10" to 11½"	20TL37
12" to 13½"	12" to 13½"	12" to 13½"	12" to 13½"	20TL38
14" to 15½"	14" to 15½"	14" to 15½"	14" to 15½"	20TL39
Drywall				
Screwdriver Operated Cam Latch				
8"	8"	8⅜"	8⅜"	2VE75
12"	12"	12⅜"	12⅜"	2VE72
16"	16"	16¼"	16¼"	16M207
18"	18"	18⅜"	18⅜"	2VE73
24"	24"	24⅜"	24⅜"	2VE74
Fire-Rated, Insulated, Standard				
Self-Latching Tool Key and Ring Operated Slam Latch				
8"	8"	8¼"	8¼"	16M205
12"	12"	12¼"	12¼"	5YL98
16"	16"	16¼"	16¼"	5YL99
18"	18"	18⅜"	18¼"	2VE76
22"	30"	22¼"	30¼"	5YM01
22"	36"	22⅜"	36⅜"	2VE77
24"	24"	24¼"	24¼"	16M206
Fire-Rated, Insulated, Upward-Swinging				
Hex Head Slam Latch Outside and Self-Latching Ring Operated Slam Latch Inside				
22"	30"	22⅜"	30⅜"	2VE78
22"	36"	22⅜"	36⅜"	2VE79
24"	24"	24⅜"	24⅜"	2VE80
Fire-Rated, Uninsulated, Standard				
Self-Latching Tool Key and Ring Operated Slam Latch				
8"	8"	8¼"	8¼"	16M215
12"	12"	12¼"	12¼"	16M216
16"	16"	16¼"	16¼"	16M217
18"	18"	18¼"	18¼"	16M218
24"	24"	24¼"	24¼"	16M219

** Includes cylinder lock and key.*

Door Dim. W	Door Dim. H	Rough Opening W	Rough Opening H	Item No.	
Hidden Flange					
Screwdriver Operated Cam Latch					
8¼"	8¼"	8½"	8½"	16M209	
12"	12"	12¼"	12¼"	16M210	
14"	14"	14¼"	14¼"	16M211	
16"	16"	16¼"	16¼"	16M212	
18"	18"	18¼"	18¼"	16M213	
24"	24"	24¼"	24¼"	16M214	
Insulated, Aluminum					
Cylinder Lock and Key					
8"	8"	8⅜"	8⅜"	2VE89	
12"	12"	12⅜"	12⅜"	2VE90	
16"	16"	16⅜"	16⅜"	2VE91	
18"	18"	18⅜"	18⅜"	2VE92	
24"	24"	24⅜"	24⅜"	2VE93	
36"	36"	36¼"	36¼"	2VE94	
Medium Security, Flush					
Key Operated Cylinder Cam Latch					
12"	12"	12½"	12½"	1UEV7	
16"	16"	16½"	16½"	1UEV8	
18"	18"	18½"	18½"	1UEV9	
24"	24"	24½"	24½"	1UEX2	
Plastic					
Snap Friction Catch					
6"	9"	6⅜"	9⅜"	5YM02	
14''	14''	14⅜''	14⅜''	5YM03	
14	29"	14⅜''	29⅜''	2VE81	
Standard, Stainless Steel					
Screwdriver Operated Cam Latch					
10"	10"	10⅜"	10⅜"	2VE82	
16"	16"	16⅜"	16⅜"	2VE83	
Standard, Steel					
Key Operated Cylinder Cam Latch					
12"	12"	12⅜"	12⅜"	1UEW7	*
14"	14"	14¼"	14¼"	1UEW8	*
16"	16"	16⅜"	16⅜"	1UEW9	*
18"	18"	18¼"	18¼"	16M208	*
24"	24"	24⅜"	24⅜"	1UEX1	*
Screwdriver Operated Cam Latch					
8"	8"	8¼"	8¼"	5YL92	
10"	10"	10¼"	10¼"	5YL93	
12"	12"	12¼"	12¼"	5YL94	
14"	14"	14¼"	14¼"	5YL95	
16"	16"	16¼"	16¼"	5YL96	
16"	24"	16⅜"	24⅜"	2VE84	
18"	18"	18⅜"	18⅜"	2VE85	
18"	24"	18⅜"	24⅜"	2VE86	
24"	24"	24¼"	24¼"	5YL97	
24"	36"	24⅜"	36⅜"	2VE87	
36"	36"	36¼"	36¼"	2VE88	

GA GRAINGER APPROVED

Tolco CORPORATION

Master MANUFACTURING MASTER CASTER



Rubber Door Wedges

Slide under door to hold it in open position.

Finish	L	H	Brand	Item No.	Pkg. Qty.
Gray	4¾"	1¼"	Master	4JG43	2
Gray	6"	1 13/16"	GA	1XNN8	1
Brown	4"	1 5/16"	GA	1RCU4	1
Brown	5⅛"	1½"	GA	1XNN7	1
Brown	6¾"	2"	Giant Foot	8CD16	1
Orange	6¾"	2"	Giant Foot	9EVL1	1
Yellow	4"	2¼"	Tolco	5TZL5	1
Safety Yellow	6¾"	2"	Master	4JG44	2

GA GRAINGER APPROVED ROCKWOOD® ASSA ABLOY

Lever/Drop-Down Style Door Holders



Keep holder in raised position for normal door operation; lower holder to hold door in an open position. No. 33J797 is a replacement bumper for Nos. 33J791 through 33J799.

Finish	Material	Projection	Brand	Item No.
Chrome	Zinc	4"	GA	1XNK8
Satin Chrome	Solid Brass	3⅝"	GA	33J791
Satin Chrome	Brass	4"	GA	5U618
Satin Chrome	Solid Brass	4⅝"	GA	33J793
Bright Brass	Brass	4"	GA	4JG77
Brass	Zinc	5"	GA	1RCP8
Polished Brass	Solid Brass	3⅝"	GA	33J792
Polished Brass	Cast Zinc	4"	GA	33J799
Polished Brass	Solid Brass	4⅝"	GA	33J796
Satin Brass	Solid Brass	4⅝"	GA	33J794
Copper	Cast Zinc	4"	GA	33J798
Painted	Zinc	4"	GA	1XNK7
Gray	Rubber	—	GA	33J797
Satin Chrome	Cast Brass	3⅝"	Rockwood	3HHU2
Satin Chrome	Cast Brass	4⅝"	Rockwood	3HHU4
Polished Brass	Cast Zinc	4"	Rockwood	3HHV1



ROCKWOOD® ASSA ABLOY

Push and Pull Bars

- Fit doors 1¾" thick or less
- Include hardware

Designed to fit together. Heavy-duty models are solid metal; standard-duty are 0.065"-thick wall tubing. Models with antimicrobial finish hinder growth of mold and bacteria.

Description	SATIN Item No.	POLISHED Item No.	BRONZE Item No.
Heavy-Duty			
Offset Pull Handle, Antimicrobial, Heavy-Duty, 90 Degrees Offset , 9"	3HJL3	—	—
Offset Pull Handle, Antimicrobial, Heavy-Duty, 90 Degrees Offset , 10"	3HJK8	—	—
Push Bar, Antimicrobial, 33"	3HJL7	—	—
Offset Pull Handle, 9"	3HJL2	3HJK9	3HJL1
Offset Pull Handle, 10"	3HJK7	3HJK5	3HJK6
Push Bar, 33"	3HJL6	3HJL4	3HJL5
Standard-Duty			
Offset Pull Handle, 9"	3HJN1	3HJN2	—
Offset Pull Handle, 10"	3HJL8	3HJL9	—
Push Bar, 33"	3HJN3	3HJN4	—

GA GRAINGER APPROVED ROCKWOOD® ASSA ABLOY



Plunger-Style Door Holders

Easy step-on-and-off action. Step on the holder to keep door in place.

Finish	H	W	Projection	Brand	Item No.
Satin Chrome	5⅝"	2¼"	1¼"	GA	33J801
Polished Brass	5⅝"	2¼"	1¼"	GA	33J802
Satin Bronze	5⅝"	2½"	1¼"	GA	33J803
Satin Chrome	5⅜"	1⅜"	1⅞"	Rockwood	3HHV2



Automatic Door Holders

GA GRAINGER APPROVED

Push door open until holder and strike engage.

Key	Finish	Holder Base H	Holder Base W	Holder Base Proj.	Strike Base H	Strike Base W	Strike Base Proj.	Item No.
Wall-Mount								
A	Stainless Steel	1⅝"	2¾"	1⅜"	1⅝"	1⅜"	1⅝"	3EHX2
B	Brass	1½"	¾"	1⅜"	1"	1"	3"	1XNK9
C	Satin Chrome	2½"	2¾"	2⅛"	2"	1"	2"	33J787
D	Satin Chrome	3½"	3"	2"	3"	2"	3"	33J788
D	Polished Brass	2¾"	2½"	2⅛"	2"	3"	3¼"	3HHV9
Floor-Mount								
E	Satin Chrome	3½"	3"	2"	4⅛"	2¼"	1¼"	33J818
E	Satin Bronze	3½"	3"	2"	4⅛"	2¼"	1¼"	33J789



Magnetic Door Holders

GA GRAINGER APPROVED

Door holders contain a magnet, eliminating the need to bend down to fasten or release the door.

Key	Finish	Base Dia.	Holder Proj.	Strike Proj.	Magnetic Strength	Item No.
Wall-Mount						
A	Stainless Steel	2½"	¾"	¾"	23.6 lb.	3EHX4
B	Chrome	1¾"	3"	⅝"	15.4 lb.	1XNP7
B	Satin Nickel	1¾"	⅝"	3"	15.4 lb.	1XNP5
B	Brass	1¾"	⅝"	3"	15.4 lb.	1XNP8
B	Antique Bronze	1¾"	⅝"	3"	15.4 lb.	1XNP4
Wall- and Floor-Mount						
C	Stainless Steel	1⅞"	1⅞"	¾"	23.4 lb.	3EHX5
C	Stainless Steel	2"	3½"	¾"	23.4 lb.	3EHX6
D	Plastic	1¾"	¾"	3"	15.4 lb.	33J783
D	Plastic	2 5/32"	1 3/16"	3"	26.4 lb.	3EHF7
D	Brown	2 5/32"	1 1/16"	3"	15.4 lb.	1RCU1
E	Nylon	1½	¾"	¾"	19.8 lb.	3EHW6
E	Nylon	1½	¾"	¾"	19.8 lb.	3EHW7



Hook-Style Door Holders

GA GRAINGER APPROVED

Latch the hook to hold door in an open position.

Key	Finish	Base Dia.	H	Projection	Item No.
Wall-Mount					
A	Stainless Steel	2"	—	2½"	3EHW8
A	Stainless Steel	2"	—	3⅜"	3EHW9
B	Satin Chrome	2¼"	—	3 19/32"	5U610
B	Bright Brass	2"	—	3 19/32"	5U611
B	Satin Chrome	2¼"	1¾"	3¾"	3HHT7
B	Polished Brass	2¼"	1¾"	3¾"	3HHT5
B	Satin Bronze	2¼"	1¾"	3¾"	3HHT6
Floor-Mount					
C	Stainless Steel	2"	2⅝"	2"	3EHX1
D	Satin Chrome	2 7/32"	3 15/16"	3 15/16"	5U616
D	Bright Brass	2 7/32"	3 15/16"	3 15/16"	5U617
D	Polished Brass	2½"	3¾"	3¾"	3HHT8
D	Satin Bronze	2½"	3¾"	3¾"	3HHT9
D	Satin Chrome	2½"	3¾"	3¾"	3HHU1



A.
No. 33J806



B.
No. 3HHZ3



C.
No. 3HHY1



D.
No. 3HHZ2



E.
No. 5U607



E.
No. 3EHE8



E.
No. 3HHY2



E.
No. 3HHY6



G.
No. 33J809



H.
No. 3HHY4



I.
No. 3HHY8

Floor-Mount Door Stops

GRAINGER APPROVED

ROCKWOOD
ASSA ABLOY

Prevent an opening door from hitting the wall.
With nonmarring rubber pads.

Key	Finish	Base Dia.	L	H	W	Brand	Item No.	
Standard								
A	Polished Brass	—	2⅝"	2¾"	1⅝"	GA	**33J806**	
A	Satin Chrome	—	2⅝"	2¾"	1⅝"	GA	**33J807**	
B	Satin Chrome	2½"	—	3"	—	Rockwood	**3HHZ3**	
B	Polished Brass	2½"	—	3"	—	Rockwood	**3HHZ4**	
B	Satin Bronze	2½"	—	3"	—	Rockwood	**3HHZ5**	
C	Zinc-Plated	1" x 2½"	2½"	2⅝"	1"	Rockwood	**3HHY1**	
Dome Door Stops								
D	Satin Chrome	2" x 4"	4"	1⅛"	2"	Rockwood	**3HHZ2**	
E	Satin Chrome	1⅞"	—	1⅛"	—	Rockwood	**3EHF2**	
E	Satin Chrome	1¾"	—	1"	—	GA	**5U606**	
E	Satin Chrome	1¾"	—	1¼"	—	GA	**5U608**	
E	Satin Chrome	1⅞"	—	1½"	—	Rockwood	**3EHF1**	
E	Bright Brass	1¾"	—	1"	—	GA	**5U607**	
E	Bright Brass	1¾"	—	1¼"	—	GA	**5U609**	
E	Polished Brass	1⅞"	—	1½"	—	Rockwood	**3EHE8**	
E	Satin Bronze	1⅞"	—	1⅛"	—	Rockwood	**3HHY2**	
E	Satin Bronze	2"	—	1½"	—	Rockwood	**3HHY3**	
Dome Door Stops with ⅜" Risers								
E	Satin Chrome	2"	—	1½"	—	Rockwood	**3HHY6**	
Dome Door Stops with 7/16" Risers								
E	Satin Chrome	1¾"	—	1"	—	GA	**33J784**	
E	Satin Chrome	1¾"	—	1½"	—	GA	**33J786**	
E	Polished Brass	1¾"	—	1⅛"	—	GA	**33J785**	
E	Polished Brass	1¾"	—	1½"	—	GA	**33J814**	
E	Satin Bronze	1¾"	—	1½"	—	GA	**33J815**	
Rubber Bumper Door Stops								
G	Satin Chrome	1¼"	—	1½"	—	GA	**33J809**	
H	—	2"	—	1½"	—	Rockwood	**3HHY4**	*
I	Satin Chrome	3¼"	—	3"	—	Rockwood	**3HHY8**	*

** Mounting bolt size for No. 3HHY4 is ⅝" x 2½", No. 3HHY8 is ½" x 4½".*



A.
No. 3HHX3



A.
No. 5U615



B.
No. 4JG95



C.
No. 3HHX1



D.
No. 1XNN6

Circular-Mount Door Stops

GRAINGER APPROVED

Protect walls from damage caused by door knobs and levers.

Key	Finish	Base Dia.	Projection	Item No.
Concave Door Stop				
A	Satin Stainless Steel	2½"	1"	**3HHX3**
A	Satin Chrome	2⅜"	1"	**5U614**
A	Bright Brass	2⅜"	1"	**5U615**
A	Satin Bronze	2½"	1"	**3HHX4**
B	Rubber	1⅞"	1"	**4JG96**
B	Rubber	1⅞"	1"	**4JG95**
Convex Door Stop				
C	Satin Stainless Steel	2½"	1"	**3HHX1**
C	Satin Bronze	2½"	1"	**3HHX2**
C	Satin Chrome	1"	½"	**4JG91**
C	Bright Brass	1"	½"	**4JG87**
D	White	2¼"	1"	**1XNN4**
D	—	2¼"	1"	**1XNN6**



A.
No. 4JG90



B.
No. 1XNP3



C.
No. 1XNL4



D.
No. 3HHZ6



E.
No. 1RCR7



F.
No. 1XNL8



G.
No. 1RCT2



G.
No. 1XNN2

Wall-Mount Door Stops

GRAINGER APPROVED

Prevent damage to walls and door hardware.

Key	Finish	Base Dia.	Projection	Item No.
Rigid				
A	Natural Aluminum/Bright Brass	1"	3"	**4JG90**
A	Bright Brass	1"	3"	**4JG88**
B	Oil-Rubbed Bronze	1"	3"	**1XNP3**
C	Satin Nickel	1"	3⅛"	**1XNL4**
C	Oil-Rubbed Bronze	1"	3⅛"	**1XNL3**
D	Satin Chrome	2¼"	3¾"	**3HHZ6**
D	Polished Brass	2¼"	3¾"	**3HHZ7**
D	Satin Bronze	2¼"	3¾"	**3HHZ8**
E	Satin Chrome	1"	4"	**1RCR7**
E	Brass	1"	4"	**1RCR3**
Spring				
F	Chrome	1"	3"	**1XNL8**
F	Bright Brass	1"	3"	**4JG94**
G	Brass	1"	3"	**1RCT2**
G	Satin Nickel	1"	3"	**1XNN3**
G	Oil-Rubbed Bronze	1"	3"	**1XNN2**



GRAINGER APPROVED

Curved Roller Door Stops

Used when doors swing into one another at an odd angle. Roller bumper prevents marring.

Finish	L	H	W	Item No.
Satin Chrome	5"	2⅝"	1⅝"	**33J812**



No. 1XNK6



No. 4JG86



No. 1RCT5

Hinge Pin Door Stops

GRAINGER APPROVED

Mount to door hinges to prevent wall damage.

Finish	Door Opening Adjustment	Item No.
Standard		
Chrome	35° to 90°	**1XNK6**
Antique Brass	35° to 90°	**1XNK4**
Brass	50° to 100°	**1RCT5**
Oil-Rubbed Bronze	50° to 100°	**1XNN9**
Brass	85° to 125°	**4JG86**
Hinge Pin		
Nickel-Plated	71° to 100°	**33J804**
Bright Brass	71° to 100°	**33J805**


No. 1HEX2


No. 5EPC8

GA GRAINGER APPROVED

Swinging Bar Door Guards and Hotel Security Latches

Include hardware.

L	W	Finish	Item No.
Swinging Bar Swing Bar Door Guards			
4¼"	2½"	Polished Brass	**1HEX1**
4¼"	2½"	Satin Chrome	**1HEX2**
5⅜"	2⅝"	Polished Brass	**3HJE9**
5⅜"	2⅝"	Satin Chrome	**3HJF1**
5⅜"	2⅝"	Satin Brass	**3HJF2**
Hotel Security Latches			
1½"	1½"	Polished Brass	**5EPC8**
1½"	1½"	Satin Brass	**5EPC9**
1½"	1½"	Polished Chrome	**5EPD0**
1½"	1½"	Satin Chrome/Nickel	**5EPD1**

GA GRAINGER APPROVED

Chain Door Guards

Include hardware.


No. 1HEX7

Length	Width	Finish	Item No.
3⅜"	1½"	Brass	**1HEX5**
3⅜"	1½"	Satin Chrome	**1HEX7**

GA GRAINGER APPROVED

Door Frame Silencers


No. 4JG85


No. 3HHX5

Rubber construction. No. 4JG85 is for metal frames only; No. 3HHX5 is for wood frames only; No. 3HHX6 is for all frame types.

Color	H	Item No.	Pkg. Qty.
Gray	½	**4JG85**	10
Gray	¾"	**3HHX5**	100
Clear	⅛"	**3HHX6**	300


No. 1HEW3


No. 1HEW9


No. 3HJH5


No. 3HJH7

GA GRAINGER APPROVED

Door Viewers and Knockers

Viewing Angle	Mounting Hole Dia.	Finish	Item No.
Standard Viewers			
120°	½"	Satin Brass	**4JG99**
160°	1½"	Bronze	**1HEW9**
1½-hr. UL Fire Rating Viewers			
160°	½"	Brass	**1HEW1**
200°	9⁄16"	Brass	**1HEW3**
160°	½"	Satin Chrome	**1HEW5**
200°	9⁄16"	Satin Chrome	**1HEW7**
Door Knockers with Viewer			
190°	—	Polished Clear	**3HJH5**
190°	—	Satin Chrome	**3HJH6**
Door Knockers			
—	—	Polished Clear	**3HJH7**
—	—	Satin Chrome	**3HJH8**


Barrier-Free Grip Door Pull Plate | **Door Push Plate** | **Oval Grip Door Pull Plate** | **Round Grip Door Pull Plate** | **Thru Bolt Door Pull**

Pull and Push Plates and Door Pulls

GA GRAINGER APPROVED

- Plates come with mounting holes and screws
- Barrier-free pull plates have additional space between handle and plate

Protect doors in high traffic areas. Pull plates and door pulls are easy to grasp with 1 hand and require no twisting of the wrist or tight grasping to operate.

W	L	Proj.	DULL TYPE 316 STAINLESS STEEL Item No.	DULL TYPE 304 STAINLESS STEEL Item No.	DULL ALUMINUM Item No.	POLISHED BRASS Item No.
Barrier-Free Grip Door Pull Plates						
3"	12"	0.05"	—	**2RGR6**	—	**2RGR9**
3½"	15"	0.125"	**2RGU6**	—	**2RGU7**	—
4"	16"	0.05"	**2RGW5**	**2RGW3**	—	—
Door Push Plates						
3½"	15"	0.125"	—	**2RGJ8**	**2RGK9**	—
4"	16"	0.125"	**2RGL6**	**2RGJ9**	**2RGL8**	**2RGN3**
4"	20"	0.05"	**2RGN8**	**2RGK2**	**2RGP1**	**2RGP3**
4"	20"	0.125"	**2RGN7**	**2RGK1**	**2RGN9**	—
3"	12"	0.05"	**2RGL5**	—	—	**2RGN6**
3"	12"	0.125"	—	**2RGJ7**	**2RGN1**	—
3½"	15"	0.05"	**2RGK8**	—	**2RGL1**	**2RGL3**
Oval Grip Door Pull Plates						
3"	12"	0.125"	—	**2RGP4**	**2RGP5**	—
3½"	15"	0.05"	—	**5U646**	**2RGT4**	**2RGT5**
3½"	15"	0.125"	—	**2RGT1**	—	—
4"	16"	0.125"	—	**2RGU9**	**2RGV1**	—
3"	12"	0.05"	—	—	—	**2RGP8**
4"	16"	0.05"	—	—	—	**2RGV4**
Rectangle Grip Door Pull Plates						
4"	16"	0.05"	—	**5U640**	—	**2RGV6**
3"	12"	0.05"	—	—	**2RGP9**	—
3½"	15"	0.05"	—	—	**2RGT6**	**2RGT7**
Round Grip Door Pull Plates						
4"	16"	0.05"	**2RGV9**	—	—	**2RGW2**
3"	12"	0.05"	—	**2RGR2**	—	**2RGR5**
3½"	15"	0.05"	**2RGU1**	**2RGT8**	—	—
Thru Bolt Door Pulls						
—	8¾"	2.25"	—	**5U624**	—	—

ROCKWOOD® ASSA ABLOY

Pull and Push Plates


No. 5U639

- Mounting hardware included

Description	Mounting	Material	L	W	Finish	Item No.
Oval Grip Door Pull Plate	Surface Mount Screws	Aluminum	16"	4"	Dull	**2RGV3**
Oval Grip Door Pull Plate	Thru Bolt	Stainless Steel	16"	4"	Dull Type 304	**5U648**
Rectangle Grip Door Pull Plate	Thru Bolt	Stainless Steel	12"	3"	Dull Type 304	**5U639**
Round Grip Door Pull Plate	Surface Mount Screws	Aluminum	16"	4"	Dull	**2RGW1**
Thru Bolt Door Pull	Thru Bolt	Stainless Steel	6¾"	—	Dull Type 304	**5U622**
Door Push Plate	Surface Mount Screws	Stainless Steel	16"	4"	Dull Type 304	**5U633**





PAWLING · GA GRAINGER APPROVED · ROCKWOOD ASSA ABLOY

Wall Corner Guards

Guards protect wall corners from damage. Have a beveled edge and can be used on all walls. Available in wall- or adhesive-mount. Models with 8 mounting holes include hardware.

W	H	Brand	ADHESIVE MOUNTING ▶CHOOSE: Color	Item No.	8 WALL HOLE MOUNTING ▶CHOOSE: Color	Item No.
Satin						
2"	48"	Pawling Corp	Stainless	**34AR46**	—	—
2"	96"	Pawling Corp	Stainless	**34AR47**	—	—
3½"	48"	Pawling Corp	Stainless	**34AR44**	—	—
3½"	96"	Pawling Corp	Stainless	**34AR45**	—	—
Standard, Flat						
1"	48"	GA	—	—	White, Black, Yellow, Clear, Silver, Almond, Gray, Eggshell	**G3648**
2"	48"	GA	Black, Yellow, White, Silver, Almond, Bronze, Gray, Eggshell	**G3649**	Clear, Black, Yellow, White, Silver, Almond, Eggshell	**G3650**
2"	48"	Rockwood	Silver	**3TFN7**	Silver	**3TFN3**
2"	96"	GA	White, Almond, Black	**G3951**	White, Clear, Black, Almond	**G3946**
3"	48"	GA	Black, White, Silver, Almond, Gray, Bronze, Eggshell	**G3651**	Clear, Black, Yellow, White, Gray, Eggshell	**G3652**
3"	48"	Rockwood	Silver	**3TFN9**	Silver	**3TFN5**
4"	48"	GA	Black, Yellow, Almond, Gray, White, Eggshell	**G3653**	Black, Yellow, Almond, Clear, White, Eggshell	**G3654**
1½"	48"	GA	White	**6YDF5**	—	—
Bullnose						
2½"	48"	GA	Black, White, Almond, Yellow, Silver, Gray, Eggshell	**G3646**	Black, White, Almond, Yellow, Silver, Eggshell	**G3645**
Grain Texture						
1½"	48"	GA	White, Beige	**G3949**	Beige, Blue	**G3944**
1½"	96"	GA	White, Beige	**G3950**	White, Beige	**G3945**
1½	48"	GA	Beige	**6YDF6**	—	—
Diamond Tread						
3"	48"	GA	—	—	Silver	**G3947**
4"	48"	GA	—	—	Silver	**G3948**



ROCKWOOD ASSA ABLOY · Markar ASSA ABLOY

Door Edge and Bottom Guards

Guards wrap around 1¾" door edge or door bottom to protect it from damage. Mounting hardware included.

Finish	H	W	2-Sided Item No.	3-Sided Item No.
Door Edge Guards				
Stainless Steel	36"	1¾"	**3TFJ8** †	**3TFJ6** *
Stainless Steel	42"	1¾"	**3TFJ9** †	**3TFJ7** *
Stainless Steel	84"	1¾"	**3TFK1** †	—
Stainless Steel	96"	1¾"	**3TFL9** †	—
Anodized Aluminum	36"	1¾"	**3TFL5** †	**3TFL1** *
Anodized Aluminum	42"	1¾"	**3TFL6** †	**3TFL2** *
Anodized Aluminum	84"	1¾"	**3TFL8** †	—
Anodized Aluminum	96"	1¾"	**3TFN2** †	—
Dark Bronze	36"	1¾"	**3TFL3** †	**3TFK8** *
Dark Bronze	42"	1¾"	**3TFL4** †	**3TFK9** *
Dark Bronze	84"	1¾"	**3TFL7** †	—
Dark Bronze	96"	1¾"	**3TFN1** †	—
Latching Door Edge Guards				
Stainless Steel	84"	1¾"	—	**2YFH3** *
Stainless Steel	96"	1¾"	—	**2YFH4** *

Finish	H	W	2-Sided Item No.	3-Sided Item No.
Door Bottom Guards				
Stainless Steel	7"	29½"	—	**3TFK2** †
Stainless Steel	7"	31½"	—	**3TFK3** †
Stainless Steel	7"	35½"	—	**3TFK4** †
Anodized Aluminum	7"	29½"	—	**3TFK5** †
Anodized Aluminum	7"	31½"	—	**3TFK6** †
Anodized Aluminum	7"	35½"	—	**3TFK7** †

Markar. † Rockwood.





Healthcare Handrails

PAWLING

Attractive handrails in a variety of styles and colors provide strength and durability. All except No. H3454 have the option for a continuous security bracket for high-risk environments.

Description	Depth	Overall Height	Color	Item No.
Standard Hand Rail, BR-1200	1½"	3⁹⁄₁₆"	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	**H3454**
Solid Handrail Wall Guard, BR-500		5½"		**H3451**
Heavy Duty Solid Handrail Wall Guard, BR-530				**H3450**
Oval Handrail With Crescent Wall Guard, BR-600V				**H3452**

Description	Overall Length	For Use With	Color	Item No.
Accessories				
Continuous Security Bracket	144"	Mfg No. BR-400V/BR-600V BR-500 / BR-530	Aluminum	**43Z795** **43Z697**
Handrail Bracket	1½"	Mfg No. BR-1200	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	**H3481**





Wall Guards and Rails

PAWLING

Rub rails are made of clear polycarbonate that won't distract from the decor, yet offers impact protection. Bumper rail, wall guards, and crash rail are made of colorful vinyl and protect any facility from all types of abuse while providing decorative appeal.

Description	Overall Height	Thickness	Overall Length	▶CHOOSE: Color	Item No.
Rub Rail, CR-3	3"	0.310"	96"	Clear	**43Z566**
Rub Rail, CR-4	4"	0.310"	96"		**43Z567**
Bumper Rail, For Use With Nos. H3623, H3624	2"	1.06"	144"	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	**H3456**
Wall Guard, For Use With Nos. H3607, H3608	2¹⁵⁄₁₆"	1"	144"		**H3588**
Crash Rail, For Use With Nos. H3621, H3622, 44A007	4⅛"	1.880"	144"		**H3455**
Wall Guard, For Use with Nos. H3609, H3610	4"	¾"	144"		**H3589**
Wall Guard, For Use with Nos. H3611, H3612	6"	1"	144"		**H3590**
Wall Guard, For Use with Nos. H3615, H3616, H3617	5"	1⅛"	144"		**H3592**
Wall Guard, For Use with Nos. H3618, H3619, H3620	8"	1⅜"	144"		**H3593**

Description	Thickness	H	▶CHOOSE: Color	Item No.
Accessories				
End Cap, Non-Handed	1⅛"	2"	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	**H3623**
	1"	2¹⁵⁄₁₆"		**H3607**
	1⅛"	5"		**H3615**
	1"	6"		**H3611**
	1⅜"	8"		**H3618**
End Cap, Right Hand	¾"	4"		**H3609**



No. 4PA43



No. 4PA44



No. 1XLY5

GA GRAINGER APPROVED STANLEY

Template Mortise-Mount Hinges

Steel hinges have standard preplated countersunk holes arranged in a half-moon shape. Square hinges mount into recessed cutouts, attaching doors to frames. Use ball-bearing hinges with door closers to reduce friction in high-traffic areas. Removable pins make frequent door removal easier, while nonremovable pins provide increased security. Safety hinges have concealed bearings to prevent tampering and tapered tips. All hinges are mounted with #12 screws except for 3" hinges, which use #9 screws. Hardware included.

Note: Additional sizes and finishes available. Call 1-800-GRAINGER (472-4643) or search for "hinges" on Grainger.com®.

Finish	H	W	Leaf Thickness	Pin Dia.	Brand	Item No.
Heavyweight Hinges with Bearings, Nonremovable Pin						
Prime Coat	4½"	4½"	0.180"	21/64"	STANLEY	**5GJP4**
Prime Coat	5"	5"	0.190"	21/64"	STANLEY	**5GJP7**
Satin Chrome	4½"	4"	0.180"	21/64"	STANLEY	**5GJP3**
Satin Chrome	4½"	4½"	0.180"	21/64"	STANLEY	**5GJP5**
Satin Chrome	5"	4½"	0.190"	21/64"	STANLEY	**5GJP6**
Satin Chrome	5"	5"	0.190"	21/64"	STANLEY	**5GJP8**
Heavyweight Hinges with Bearings, Removable Pin						
Beige Enamel	4½"	4½"	0.180"	21/64"	GA	**4PA43**
Beige Enamel	5"	4½"	0.190"	21/64"	GA	**4PA47**
Bright Brass	4½"	4½"	0.180"	21/64"	STANLEY	**5GJG8**
Bright Brass	5"	4½"	0.190"	21/64"	STANLEY	**5GJH6**
Bright Brass	5"	5"	0.190"	21/64"	STANLEY	**5GJG9**
Dull Chrome	4½"	4½"	0.180"	21/64"	GA	**4PA44**
Dull Chrome	5"	4½"	0.190"	21/64"	GA	**4PA48**
Gray Enamel	4½"	4"	0.180"	21/64"	GA	**3HUA3**
Gray Enamel	5"	4"	0.190"	21/64"	GA	**3HUA5**
Satin Chrome	4½"	4"	0.180"	21/64"	STANLEY	**5GJH3**
Satin Chrome	5"	4"	0.190"	21/64"	STANLEY	**5GJH4**
Satin Chrome	5"	5"	0.190"	21/64"	STANLEY	**5GJH5**
Satin Stainless Steel	4½"	4"	0.180"	21/64"	STANLEY	**5GJH0**
Satin Stainless Steel	4½"	4½"	0.180"	21/64"	STANLEY	**5GJH1**
Satin Stainless Steel	5"	4½"	0.190"	21/64"	STANLEY	**5GJH2**
Hinges with Bearings, Nonremovable Pin						
Prime Coat	4½"	4"	0.134"	5/16"	STANLEY	**5GJK8**
Prime Coat	4½"	4½"	0.134"	5/16"	STANLEY	**5GJK9**
Prime Coat	5"	5"	0.145"	5/16"	STANLEY	**5GJL1**
Satin Chrome	4"	3½"	0.130"	17/64"	STANLEY	**5GJK7**
Satin Chrome	4"	4"	0.130"	17/64"	STANLEY	**5GJK4**
Satin Chrome	4½"	4"	0.134"	5/16"	STANLEY	**5GJK5**
Satin Chrome	5"	4½"	0.145"	5/16"	STANLEY	**5GJK6**
Satin Stainless Steel	4½"	4"	0.134"	5/16"	STANLEY	**5GJK1**
Satin Stainless Steel	5"	4½"	0.145"	5/16"	STANLEY	**5GJK2**
Hinges with Bearings, Removable Pin						
Beige Enamel	4"	4"	0.130"	17/64"	GA	**4PA33**
Beige Enamel	4½"	4½"	0.134"	5/16"	GA	**4PA37**
Dull Chrome	4"	4"	0.130"	17/64"	GA	**4PA34**
Dull Chrome	4½"	4"	0.134"	5/16"	GA	**4PA36**
Dull Chrome	4½"	4½"	0.134"	5/16"	GA	**4PA39**
Dull Chrome	5"	4½"	0.145"	21/64"	GA	**3HWA5**
Gray Enamel	5"	4½"	0.145"	21/64"	GA	**3HTY8**
Satin Stainless Steel	3½"	3½"	0.123"	17/64"	STANLEY	**5GJL2**
Satin Stainless Steel	4"	4"	0.130"	17/64"	STANLEY	**5GJL3**
Satin Stainless Steel	4½"	4"	0.134"	5/16"	STANLEY	**5GJL4**
Satin Stainless Steel	5"	5"	0.145"	21/64"	STANLEY	**5GJL5**
Stainless Steel	4½"	4½"	0.180"	5/16"	GA	**4PA49**
Hinges with Concealed Bearings, Nonremovable Pin						
Bright Brass	4½"	4½"	0.134"	5/16"	STANLEY	**5GJR7**
Prime Coat	4½"	4"	0.134"	5/16"	STANLEY	**5GJR3**
Prime Coat	4½"	4½"	0.134"	5/16"	STANLEY	**5GJR5**
Satin Chrome	4½"	4"	0.134"	5/16"	STANLEY	**5GJR4**
Satin Chrome	4½"	4½"	0.134"	5/16"	STANLEY	**5GJR6**
Satin Stainless Steel	4½"	4"	0.134"	5/16"	STANLEY	**5GJR9**
Satin Stainless Steel	4½"	4½"	0.134"	5/16"	STANLEY	**5GJT0**
Satin Stainless Steel	5"	4½"	0.145"	5/16"	STANLEY	**5GJT1**

Finish	H	W	Leaf Thickness	Pin Dia.	Brand	Item No.	
Hinges with Concealed Bearings, Removable Pin							
Bright Brass	3½"	3½"	0.123"	17/64"	STANLEY	**5GJH7**	
Bright Brass	4½"	4"	0.134"	5/16"	STANLEY	**5GJH9**	
Bright Brass	4½"	4½"	0.134"	5/16"	STANLEY	**5GJK0**	
Bright Brass	4"	4"	0.130"	17/64"	STANLEY	**5GJH8**	
Dull Chrome	3½"	3½"	0.123"	17/64"	GA	**3HWA7**	
Dull Chrome	4½"	4½"	0.134"	5/16"	GA	**3HUC1**	
Gray Enamel	4"	4"	0.130"	17/64"	GA	**3HTZ2**	
Gray Enamel	4½"	4"	0.134"	5/16"	GA	**3HTZ3**	
Gray Enamel	5"	4½"	0.145"	5/16"	GA	**3HTZ8**	
Gray Prime Coat	3½"	3½"	0.123"	17/64"	GA	**3HTZ1**	
Gray Prime Coat	4½"	4½"	0.134"	5/16"	GA	**3HTZ4**	
Satin Chrome	4"	4"	0.130"	17/64"	STANLEY	**5GJJ9**	
Satin Chrome	4½"	4"	0.134"	5/16"	STANLEY	**5GJJ6**	
Satin Chrome	5"	4½"	0.145"	5/16"	STANLEY	**5GJJ7**	
Satin Stainless Steel	3½"	3½"	0.123"	17/64"	STANLEY	**5GJJ0**	
Satin Stainless Steel	4"	4"	0.130"	17/64"	STANLEY	**5GJJ1**	
Satin Stainless Steel	4½"	4"	0.134"	5/16"	STANLEY	**5GJJ2**	
Satin Stainless Steel	4½"	4½"	0.134"	5/16"	STANLEY	**5GJJ3**	
Satin Stainless Steel	5"	4½"	0.145"	5/16"	STANLEY	**5GJJ4**	
Hinges without Bearings, Nonremovable Pin							
Bright Brass	4½"	4"	0.134"	5/16"	STANLEY	**5GJP1**	
Dull Chrome	4½"	4½"	0.134"	5/16"	GA	**1BYX5**	†
Prime Coat	4"	4"	0.130"	17/64"	STANLEY	**5GJN7**	
Prime Coat	4½"	4"	0.134"	5/16"	STANLEY	**5GJP0**	
Prime Coat	4½"	4½"	0.134"	5/16"	STANLEY	**5GJP2**	
Satin Chrome	4"	4"	0.130"	17/64"	STANLEY	**5GJN8**	
Satin Chrome	4½"	4"	0.134"	5/16"	STANLEY	**5GJN9**	
Satin Stainless Steel	4½"	4½"	0.134"	5/16"	STANLEY	**5GJN6**	
Hinges without Bearings, Removable Pin							
Beige Enamel	3½"	3½"	0.123"	17/64"	GA	**4PA28**	
Beige Enamel	4"	4"	0.130"	17/64"	GA	**4PA29**	
Bright Brass	3"	3"	0.092"	15/64"	STANLEY	**5GJN3**	
Bright Brass	3½"	3½"	0.123"	17/64"	STANLEY	**5GJL9**	
Bright Brass	4½"	4"	0.134"	5/16"	STANLEY	**5GJN0**	
Dull Chrome	4½"	4"	0.134"	5/16"	GA	**3HVZ4**	
Dull Chrome	5"	5"	0.145"	21/64"	GA	**3HWA1**	
Gray Enamel	4½"	4½"	0.134"	5/16"	GA	**1WAJ2**	*
Gray Enamel	5"	5"	0.145"	21/64"	GA	**3HTY6**	
Prime Coat	4½"	4"	0.134"	5/16"	STANLEY	**5GJN5**	
Satin Chrome	3"	3"	0.092"	15/64"	STANLEY	**5GJN1**	
Satin Chrome	4"	4"	0.130"	17/64"	STANLEY	**5GJN4**	
Satin Chrome	4½"	4½"	0.134"	5/16"	STANLEY	**5GJN2**	
Satin Stainless Steel	3½"	3½"	0.123"	17/64"	STANLEY	**5GJL6**	
Satin Stainless Steel	4"	4"	0.130"	17/64"	STANLEY	**5GJL7**	
Satin Stainless Steel	4½"	4½"	0.134"	5/16"	STANLEY	**5GJL8**	
Safety Hinges with Bearings, Nonremovable Pin							
Dull Chrome	4½"	4½"	0.134"	5/16"	GA	**1XLY8**	
Gray Enamel	4½"	4½"	0.134"	5/16"	GA	**1XLY5**	

** Package of 2. † Package of 3.*



No. 4PA25



No. 5GJG7

GA GRAINGER APPROVED STANLEY

High-Security Template Hinges

- 180° range of motion
- Hardware included

Feature a stud built into 1 leaf that fits into corresponding hole of the matching leaf; door cannot be removed even if pin is removed from hinge. 304 stainless steel, mortise-mount hinges are designed for use in detention facilities. Capable of withstanding 200 repetitive blows with 200 ft.-lb. of force. Stainless steel pin has shear-resistant stud.

Finish	H	W	Leaf Thickness	Holes per Leaf	Brand	Item No.
Satin Stainless Steel	4½"	4½"	0.196''	4	GA	**4PA25**
Prime Coat	4½"	4½"	0.187"	4	STANLEY	**5GJG7**



No. 3HTE3



No. 3HTP1



No. 3AGC2



No. 3HTN1

GA GRAINGER APPROVED

Surface-Mount Hinges without Holes

- Have at least 270° range of motion

Reversible hinges are mounted by welding or drilling holes for fasteners. Nonremovable pin provides increased security.

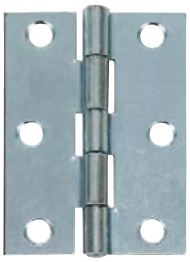
Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Item No.
Unfinished Steel, Nonremovable Pin				
1"	31/32"	0.047"	7/64"	**3HTE3**
1½"	1½"	0.050"	1/8"	**3HTE5**
2"	1½"	0.060"	1/8"	**3HTE6**
2"	2"	0.060"	1/8"	**3HTE7**
2"	2"	0.099"	—	**4PA65**
2½"	2½"	0.110"	9/16"	**4PA66**
3"	2"	0.090''	3/16"	**3HTF1**
3"	2½"	0.120"	1/4"	**3HTF2**
3"	3"	0.110"	—	**4PA67**
3½"	3½"	0.120"	—	**4PA68**
4"	3"	0.120"	1/4"	**3HTF3**
4"	3½"	0.165"	5/16"	**3HTF4**
4"	4"	0.139"	—	**4PA69**
4"	4"	0.180"	3/8"	**3HTF5**
4"	4"	0.250"	5/8"	**3HTF6**
5"	4"	0.180"	3/8"	**3HTF8**
5"	5"	0.120"	1/4"	**3HTF9**
5"	5"	0.165"	—	**4PA71**
6"	5"	0.180"	3/8"	**3HTG3**
6"	5"	0.250"	5/8"	**3HTG4**
6"	6"	0.165"	3/8"	**3HTG5**
6"	6"	0.187"	—	**4PA72**
6"	6"	0.250"	5/8"	**3HTG6**
8"	6"	0.180"	3/8"	**3HTG7**
Unfinished Steel, Removable Pin				
2"	2"	0.083"	3/16"	**3HTH1**
2½"	2½"	0.089"	7/32"	**3HTH2**
2½"	2½"	0.120"	1/4"	**3HTH3**
3"	2½"	0.120"	1/4"	**3HTH5**
3"	3"	0.120"	1/4"	**3HTH6**
3½"	3½"	0.150"	5/16"	**3HTH7**
4"	3"	0.120"	1/4"	**3HTH8**
4"	4"	0.120"	1/4"	**3HTJ1**
4"	4"	0.180"	3/8"	**3HTJ2**
4"	4"	0.250"	5/8"	**3HTJ3**
4½"	4½"	0.185"	11/32"	**3HTJ5**
5"	4"	0.180"	3/8"	**3HTJ6**
5"	5"	0.180"	3/8"	**3HTJ8**
5"	5"	0.250"	5/8"	**3HTJ9**
6"	3"	0.180"	3/8"	**3HTK1**
6"	6"	0.180"	3/8"	**3HTK3**
6"	6"	0.250"	5/8"	**3HTK4**

Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Item No.
Gray Enamel Steel, Nonremovable Brass Pin				
2"	2"	0.105"	3/16"	**3HTP1**
2½"	2 3/8"	0.120"	3/16"	**3HTP2**
3"	3"	0.135"	1/4"	**3HTP3**
3½"	3½"	0.165"	5/16"	**3HTP4**
Zinc Steel, Nonremovable Brass Pin				
4"	4"	0.180"	5/16"	**3HTP7**
4"	4"	0.250"	1/2"	**3HTP8**
5"	5"	0.250"	1/2"	**3HTR2**
Stainless Steel, Nonremovable Pin				
1½"	1½"	0.050"	1/8"	**3HTK5**
2"	1½"	0.060"	1/8"	**3HTK6**
2"	2"	0.060"	1/8"	**3HTK7**
2"	2"	0.075"	3/16"	**3HTK8**
2½"	2½"	0.060"	1/8"	**3HTK9**
2½"	2½"	0.075"	3/16"	**3HTL1**
3"	1"	0.090''	3/16"	**3HTL2**
3"	2"	0.120"	1/4"	**3HTL3**
3"	3"	0.090''	3/16"	**3HTL4**
3"	3"	0.120"	1/4"	**3HTL5**
3½"	3"	0.090''	3/16"	**3HTL6**
3½"	3½"	0.090''	3/16"	**3HTL7**
4"	4"	0.120"	1/4"	**3AGC1**
4"	4"	0.180"	3/8"	**3AGC2**
4"	4"	0.250"	5/8"	**3AGC3**
5"	5"	0.120"	1/4"	**3AGC4**
5"	5"	0.180"	3/8"	**3AGC5**
Stainless Steel, Removable Pin				
2"	2"	0.060"	1/8"	**3HTN1**
2½"	2½"	0.075"	3/16"	**3HTN2**
3"	2"	0.120"	1/4"	**3HTN3**
3"	3"	0.090''	3/16"	**3HTN4**
4"	3"	0.120"	1/4"	**3HTN6**
5"	5"	0.120"	1/4"	**3HTN8**


No. 3HTU4


No. 3HTV7


No. 3HTV1


No. 3HTW1


No. 3HTW7

Nontemplate Mortise-Mount Hinges

GA GRAINGER APPROVED

- 270° range of motion.

Reversible nontemplate hinges have nonstandard hole patterns, providing flexibility as older/stripped holes can be ignored when mounting new hinges. Hinges mount into recessed cutouts, attaching hollow metal or wood doors to frames. Holes are predrilled and countersunk for easy installation and better corrosion resistance.

						NONREMOVABLE PIN			REMOVABLE PIN		
Door Leaf Height	H	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Holes per Leaf	GRAY ENAMEL STEEL Item No.	PLAIN STEEL STEEL Item No.	ZINC-PLATED STEEL Item No.	GRAY ENAMEL STEEL Item No.	PLAIN STEEL STEEL Item No.	ZINC-PLATED STEEL Item No.
Square Corners, 3 Knuckle											
1"	1"	1"	0.047"	3/32"	2	3HTU3	—	3HTV6	—	—	—
1 7/16"	1 7/16"	3 1/2"	0.072"	1/8"	3	3HTU5	—	3HTV8	—	—	—
1 1/2"	1 1/2"	1 3/8"	0.050"	1/8"	2	3HTU4	—	—	3HTW4	—	—
1 1/2"	1 1/2"	1 1/4"	0.045"	1/8"	2	—	—	3HTV7	—	—	—
Square Corners, 5 Knuckle											
2"	2"	1 9/16"	0.050"	1/8"	2	3HTU6	—	3HTV9	—	—	3HTX6
2"	2"	2"	0.080"	3/16"	2	3HTU7	—	—	—	3HTW5	—
2 1/2"	2 1/2"	1 11/16"	0.055"	1/8"	3	3HTU8	—	3HTW1	3HTW6	—	3HTX7
2 1/2"	2 1/2"	2 1/2"	0.090"	7/32"	3	3HTU9	—	—	3HTW7	—	—
3"	3"	2"	0.062"	5/32"	3	3HTV1	—	3HTW2	3HTW8	—	3HTX8
3"	3"	3"	0.090"	17/64"	3	3HTV2	—	—	3HTW9	—	3HTX9
3 1/2"	3 1/2"	3 1/2"	0.110"	17/64"	3	—	3HTV3	—	3HTX1	—	3HTY1
4"	4"	4"	0.110"	17/64"	4	3HTV4	—	—	—	—	3HTY2
6"	6"	6"	0.160"	3/8"	5	3HTV5	—	—	3HTX3	—	—


No. 4PB50


No. 1CAC8


No. 4PA75


No. 4PA74


No. 4PA90


No. 1RBV3

Spring Hinges

GA GRAINGER APPROVED

TRUCLOSE

- Hardware included

Ensure doors close automatically.

Door Leaf Height	Door Leaf Width	Finish	Door Leaf Thickness	Holes per Leaf	Brand	Item No.	
Adjustable-Tension Heavy Wood Storm Door Spring Hinges, Steel, Plated Finish, Full Mortise							
4 1/2"	2"	Gray Enamel	0.098"	4	GA	1CAC4	
Adjustable Ball Bearings Double-Acting Floor Spring Hinge Set, Steel, Plated Finish							
1"	9 13/16"	Satin Bronze	0.099"	4	GA	4PB50	
Adjustable-Tension Heavy Wood Storm Door Spring Hinge, Steel, Plated Finish, Half Surface							
5 33/64"	2 37/64"	Gray Enamel	0.098"	4	GA	1CAC8	
Adjustable-Tension Heavy Wood Storm Door Spring Hinges, Steel, Plated Finish, Full Mortise							
2 55/64"	1 15/32"	Bright Zinc	0.080"	3	GA	4PA75	
6"	2 1/4"	Gray Enamel	0.098"	5	GA	1CAC6	
Adjustable-Tension Wood Storm Door Spring Hinges, Steel, Plated Finish							
2 3/4"	1 15/32"	Black Enamel	0.045"	3	GA	1RBU7	*
2 3/4"	1 15/32"	Steel	0.080"	3	GA	1RBV1	
2 3/4"	1 15/32"	Bright Zinc	0.048"	3	GA	4PA74	
Full Mortise Adjustable Spring Residential Hinges, 1/4" Radius Corners							
3 1/2"	1 3/4"	Satin Brass	0.099"	3	GA	4PA90	
3 1/2"	1 3/4"	Satin Chrome	0.099"	3	GA	4PA91	
4"	2"	Satin Brass	0.099"	4	GA	4PA92	
4"	2"	Satin Chrome	0.099"	4	GA	4PA93	
Full Mortise Adjustable Spring Residential Hinges, 5/8" Radius Corners							
3 1/2"	1 3/4"	Satin Brass	0.099"	3	GA	4PA94	
4"	2"	Satin Brass	0.099"	4	GA	4PA95	

Door Leaf Height	Door Leaf Width	Finish	Door Leaf Thickness	Holes per Leaf	Brand	Item No.
Full Mortise Adjustable Spring Residential Hinges, Square Corners						
3 1/2"	1 3/4"	Satin Brass	0.099"	3	GA	4PA76
3 1/2"	1 3/4"	Satin Chrome	0.099"	3	GA	4PA77
4 1/2"	2"	Satin Brass	0.134"	4	GA	1RBV3
4 1/2"	2"	White Enamel	0.134"	4	GA	4PA81
4 1/2"	2"	Satin Chrome	0.134"	4	GA	4PA82
4 1/2"	2 1/4"	Gray Enamel	0.134"	4	GA	4PA83
4 1/2"	2 1/4"	Satin Brass	0.134"	4	GA	4PA84
4 1/2"	2 1/4"	Bronze	0.134"	4	GA	4PA85
4 1/2"	2 1/4"	Satin Chrome	0.134"	4	GA	4PA86
4 1/2"	2 1/4"	Bright Brass	0.134"	4	GA	4PA87
4 1/2"	2 1/4"	Satin Bronze	0.134"	4	GA	4PA88
4 1/2"	2 1/4"	Stainless Steel	0.134"	4	GA	4PA89
4"	2"	Satin Brass	0.099"	4	GA	4PA78
4"	2"	Satin Chrome	0.099"	4	GA	4PA79
4"	2"	Stainless Steel	0.099"	4	GA	4PA80
TRU CLOSE® Heavy Duty Self-Closing Adjustable Spring Hinge						
4 3/4"	1 3/8"	Black Matte	0.390"	2	TruClose	38G646
TRU CLOSE® Self-Closing Adjustable Spring Hinge						
3 3/4"	1 1/8"	Black Matte	0.350"	2	TruClose	38G643

** Pkg. of 2.*



No. 25HE10



No. 25HE18

McKinney
ASSA ABLOY

Hospital Tip Hinges

- 270º range of motion
- Hardware included
- Square corners

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where security requirements exist. Feature four holes per leaf and a thickness of 0.190". The swing clear is 180°.

H	W	Ligature Resistant	Door Leaf Thickness	Bearing Type	Material	Finish	Item No.
Full Mortise							
4½"	4½"	No	0.134"	Sleeve	Steel	Dull Chrome	**25HE04**
4½"	4½"	No	0.180"	Sleeve	304 Stainless Steel	Dull Stainless Steel	**25HE02**
4½"	4½"	No	0.190"	Sleeve	Steel	Dull Chrome	**25HE14**
4½"	4½"	Yes	0.180"	Sleeve	304 Stainless Steel	Dull Stainless Steel	**25HE17**
5"	4½"	Yes	0.190"	Ball	Steel	Dull Chrome	**25HE10**
5"	4½"	Yes	0.190"	Ball	304 Stainless Steel	Dull Stainless Steel	**25HE11**
5"	4½"	Yes	0.190"	Ball	Steel	Dull Chrome	**25HE12**
8"	6"	Yes	0.190"	Ball	Steel	Dull Chrome	**25HE13**
Swing Clear							
4½"		Yes	0.190"	Sleeve	Steel	Dull Chrome	**25HE18**
4½"		Yes	0.190"	Sleeve	Stainless Steel	Dull Stainless Steel	**25HE20**
5"		Yes	0.190"	Sleeve	Steel	Dull Chrome	**25HE19**



No. 4PA53



No. 4PA20



No. 4PA22



No. 4PA23

High-Traffic Hinges

GA GRAINGER APPROVED

H	W	Leaf Thickness	Holes per Leaf	Finish	Item No.
Full-Surface Mounting					
4½"	4½"	0.134"	3	Gray Prime Coat	**4PA53**
Half-Surface Mounting					
4½"	4½"	0.134"	3 and 4	Gray Prime Coat	**4PA20**
4½"	4½"	0.134"	3 and 4	Satin Chrome	**4PA21**
4½"	4½"	0.180"	3 and 4	Satin Chrome	**4PA22**
Half-Mortise Mounting					
4½"	3½"	0.140"	3 and 4	Gray Prime Coat	**4PA23**

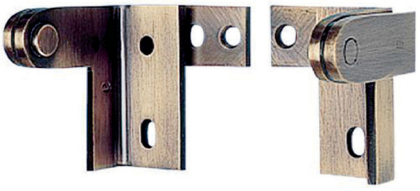
FIND MORE ONLINE
Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!



No. 1VZU7



No. 1VZU5



No. 5MRE6

RIXSON ASSA ABLOY ★ GA GRAINGER APPROVED STANLEY

Pivot Sets and Pivot Hinges

Create less stress on the frame assembly, prevent door sagging, and allow the door to swing with less resistance. Fasteners on the door and frame are in shear rather than tension, and are less likely to pull out over time. Hardware included.

Range of Motion	Mounting	Door Thickness	Load Cap.	Holes per Leaf	Pkg. Qty.	LEFT-HANDED Item No.	RIGHT-HANDED Item No.	CENTER HUNG Item No.
Rixson Pivot Sets								
180°	Full Mortise	1¾"	250.0 lb.	4	1	**4AZT5**	—	—
180°	Full Mortise	1¾"	300.0 lb.	4	1	**4AZT7**	**4AZT6**	—
180°	Full Mortise	1¾"	450.0 lb.	4	1	**4AZT9**	**4AZT8**	—
180°	Full Mortise	1¾"	600.0 lb.	4	1	**4AZU2**	**4AZU1**	—
180°	Full Mortise	1¾"	800.0 lb.	8	1	—	**4AZU3**	—
180°	Full Mortise	1¾"	200.0 lb.	3	1	—	—	**4AZV4**
180°	Full Mortise	1¾"	250.0 lb.	3	1	—	—	**4AZV5**
180°	Full Mortise	1¾"	500.0 lb.	3	1	—	—	**4AZV6**
GA Reinforcing Pivot Hinges								
180°	Full Surface	1⅜"	—	4	1	**1VZU7**	**1VZU5**	—
Rixson Electric Pivot Hinges								
180°	Full Mortise	1¾"	250.0 lb.	5	1	**4AZV1**	**4AZU9**	—
Rixson Intermediate Pivot Hinges								
180°	Full Mortise	1¾"	250.0 lb.	5	1	**4AZU8**	—	—
180°	Full Mortise	1¾"	250.0 lb.	4	1	—	—	**4AZV3**
Stanley Wardrobe Pivot Hinges								
180°	Full Surface	1⅛" to 1⅜"	75.0 lb.	2	2	**5MRE8**	**5MRE9**	—
180°	Full Surface	1⅛" to 1⅜"	75.0 lb.	2 and 3	2	—	—	**5MRE7**
180°	Full Surface	1⅜" to 1¾"	150.0 lb.	2 and 3	2	—	—	**5MRE6**



No. 4PA56



No. 4PA57



No. 4PA58



No. 3HTR5

★ GA GRAINGER APPROVED

Light-Duty Mortise-Mount and Surface-Mount Hinges

- Hardware included

For hollow-core and lightweight wooden doors. Nonremovable pins and inaccessible set screw provide increased security, while removable pins make frequent door removal less time consuming.

Note: Additional sizes and finishes available. Call 1-800-GRAINGER (472-4643) or search for "hinges" on Grainger.com®.

Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Holes per Leaf	Corners	Material	Finish	Item No.	Pkg. Qty.
Mortise-Mount, Nonremovable Pin									
2"	1 9/16"	0.056"	5/64"	2	Square	Steel	Zinc	**4PA56**	1
3"	2"	0.063"	13/64"	3	Square	Steel	Zinc	**4PA57**	1
2"	2"	0.077"	—	2	Square	Steel	Zinc	**4PA62**	1
3"	3"	0.080"	—	3	Square	Steel	Zinc	**4PA63**	1
4"	4"	0.088"	—	4	Square	Steel	Zinc	**4PA64**	1
Mortise-Mount, Removable Pin									
2"	2"	0.077"	13/64"	2	Square	Steel	Zinc	**4PA58**	1
3"	3"	0.078"	—	3	Square	Steel	Zinc	**4PA59**	1
3½"	3½"	0.088"	—	3	Square	Steel	Zinc	**4PA60**	1
4"	4"	0.088"	—	4	Square	Steel	Zinc	**4PA61**	1
2"	2"	0.077"	3/16"	2	Square	Stainless Steel	Stainless Steel	**1RBY2**	2
2½"	2½"	0.077"	3/16"	2	Square	Stainless Steel	Stainless Steel	**1RBY5**	2
3½"	3½"	0.078"	¼"	3	Rounded	Steel	Antique Bronze	**1XMB9**	2
3½"	3½"	0.087"	¼"	3	Rounded	Steel	Satin Nickel	**1WAN2**	2
Surface-Mount, Nonremovable Pin									
1"	1"	0.045"	3/16"	2	Square	Steel	Zinc	**1RBT4**	1
1½"	1⅜"	0.045"	3/16"	2	Square	Steel	Zinc	**1RBT5**	1
2½"	1 11/16"	0.056"	3/16"	3	Square	Steel	Zinc	**1RBT7**	1
1"	1"	0.045"	3/16"	2	Square	Steel	Satin Brass	**1RBT8**	2
3"	2"	0.065"	3/16"	3	Square	Steel	Brass	**1RBU5**	2
2½"	1 11/16"	0.056"	3/16"	3	Square	Steel	Brass	**1RBU3**	2
1½"	⅞"	0.040"	1/16"	2	Square	Brass	Bright Brass	**1XMC4**	2
1½"	1½"	0.082"	⅛"	2	Square	Steel	Bright Brass	**3HTR4**	1
3"	2"	0.082"	⅛"	3	Square	Brass	Bright Brass	**3HTR5**	1



No. 4PB17

Continuous Steel Piano Hinges with Holes

GRAINGER APPROVED

- ½" knuckle height

Steel hinges have countersunk mounting holes to aid surface-mounting hinges to door or frame. Pins and hinges are made of the same material. Additional sizes and finishes available on Grainger.com®.

L	0.040" Leaf Thickness Pin Dia.	Overall Width	Item No.	0.060" Leaf Thickness Pin Dia.	Overall Width	Item No.
Aluminum						
6 ft.	3/32"	1 1/16"	4PB22	1/8"	2"	4PB38
6 ft.	3/32"	1 1/2"	4PB23	—	—	—
Antique Bronze						
4 ft.	3/32"	1 1/2"	1CBC6	—	—	—
4 ft.	3/32"	2"	1CBF6	—	—	—
6 ft.	3/32"	1 1/16"	1CAY3	1/8"	2"	1CCJ6
6 ft.	3/32"	1 1/2"	1CBD9	1/8"	3"	1CCN3
Bright Brass						
4 ft.	3/32"	1 1/2"	4PB17	1/8"	1 1/2"	1CCD7
6 ft.	3/32"	1 1/2"	4PA99	1/8"	1 1/2"	1CCF1
6 ft.	3/32"	1 1/2"	4PB18	1/8"	3"	1CCL9
Bright Nickel						
4 ft.	3/32"	1 1/16"	1CAW6	1/8"	1 1/2"	1CCE4
4 ft.	3/32"	1 1/16"	4PB19	1/8"	2"	1CCH5
4 ft.	3/32"	1 1/4"	1CBA1	1/8"	3"	1CCL3
4 ft.	3/32"	1 1/2"	4PB20	—	—	—
4 ft.	3/32"	2"	4PB11	—	—	—
4 ft.	3/32"	2"	1CBJ7	—	—	—
6 ft.	3/32"	1 1/16"	4PA97	1/8"	1 1/2"	1CCF7
6 ft.	3/32"	1 1/4"	1CBB4	1/8"	2"	4PB29

L	0.040" Leaf Thickness Pin Dia.	Overall Width	Item No.	0.060" Leaf Thickness Pin Dia.	Overall Width	Item No.
6 ft.	3/32"	1 1/2"	4PB10	1/8"	2 1/2"	4PB31
6 ft.	3/32"	1 1/2"	4PB21	1/8"	3"	4PB33
6 ft.	3/32"	2"	4PB13	—	—	—
Stainless Steel						
3 ft.	3/32"	1 1/4"	1CAK5	—	—	—
3 ft.	3/32"	1 1/2"	1CAL2	—	—	—
4 ft.	3/32"	1 1/4"	1CAK7	1/8"	1 1/2"	1JEJ6
4 ft.	3/32"	1 1/2"	1CAL4	1/8"	3"	1JEJ8
4 ft.	3/32"	2"	1CAL7	—	—	—
6 ft.	3/32"	1 1/16"	4PB24	1/8"	1 1/2"	1JEJ7
6 ft.	3/32"	1 1/2"	4PB25	1/8"	2"	4PB39
6 ft.	3/32"	2"	1CAL9	1/8"	3"	1JEJ9
72 In.	3/32"	1 1/4"	1CAK9	—	—	—
Steel						
6 ft.	3/32"	1 1/16"	4PA96	1/8"	1 1/2"	4PB27
6 ft.	3/32"	1 1/4"	1CBC4	1/8"	2"	4PB28
6 ft.	3/32"	1 1/2"	4PA98	1/8"	2 1/2"	4PB30
6 ft.	3/32"	2"	4PB12	1/8"	3"	4PB32
Bright Brass						
4 ft.	—	—	—	1/8"	2"	1CCG8
4 ft.	—	—	—	1/8"	3"	1CCK6



GRAINGER APPROVED

Type 304 Stainless Steel Hinges and Pins, No Holes

More corrosion resistant than brass hinges. Can be surface mounted by drilling holes and using fasteners, or spot welded. Hinges can be cut with a hacksaw. 270° range of motion. Additional sizes available on Grainger.com®.

Overall Width	Pin Dia.	Overall Knuckle Height	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.	8-FT. LENGTH Item No.
0.025" Leaf Thickness						
3/4"	1/16"	1/4"	—	2ZFF1	1CAE5	—
1"	1/16"	1/4"	—	2ZFF2	—	—
0.03" Leaf Thickness						
1"	1/16"	1/4"	—	—	1CAE7	—
0.035" Leaf Thickness						
1 1/16"	3/32"	1/4"	5MVU8	—	2ZFF4	—
1 1/2"	3/32"	1/4"	5MVX4	2ZFF5	2ZFF6	5MVX6
3/4"	3/32"	1/4"	—	—	4PNF4	—
1 1/4"	3/32"	1/4"	5MVX1	—	—	—
0.040" Leaf Thickness						
1 1/16"	3/32"	1/2"	5MVX7	—	1CAN5	5MVX9
1 1/2"	3/32"	1/2"	5MVY3	1CAP3	4PB26	5MVY5
2"	3/32"	1/2"	5MVY6	1CAP6	1CAP8	5MVY8
1 1/4"	3/32"	1/2"	5MVY0	—	—	5MVY2
0.050" Leaf Thickness						
2"	1/8"	1/2"	2ZFH2	1CCA8	1CCB2	2ZFH4
1 1/4"	1/8"	1/2"	2ZFG5	—	—	2ZFG7
1 1/2"	1/8"	1/2"	—	1CCA1	—	2ZFH1
0.060" Leaf Thickness						
1 1/2"	1/8"	1/2"	2ZFJ4	1JEK3	1JEK4	—
1 1/16"	1/8"	1/2"	2ZFH5	—	2ZFH8	2ZFH9
1 1/4"	1/8"	1/2"	—	—	—	2ZFJ3
2"	1/8"	1/2"	2ZFK2	1JEK6	4PB40	1JEK7
3"	1/8"	1/2"	—	1JEN1	1JEN2	1JEN3
1 1/2"	3/16"	1/2"	2ZFJ6	2ZFJ7	2ZFJ9	2ZFK1
2"	3/16"	1/2"	2ZFK4	—	—	2ZFK6
3"	3/16"	1/2"	—	—	—	2ZFN3
2"	3/16"	1"	—	—	1JEN9	—
0.075" Leaf Thickness						
2"	3/16"	1"	2ZFN7	2ZFN9	2ZFP3	—
2"	1/4"	1"	2ZFN8	1JEV9	1JEX1	2ZFP5
2 1/2"	1/4"	1"	2ZFP6	—	1JEX3	2ZFP8
3"	1/4"	1"	2ZFP9	1JEX4	1JEX5	1JEX6
W	Pin Dia.	Knuckles	1-FT. LENGTH Item No.	2-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.
0.090" Leaf Thickness						
2"	1/4"	1"	2ZFT3	2ZFT4	2ZFT5	2ZFT6
0.120" Leaf Thickness						
2"	1/4"	2"	2ZFU9	2ZFV2	2ZFV4	2ZFV6
3"	3/8"	2"	2ZFW2	—	—	2ZFW7



No. 33RZ57



No. 33RZ49



No. 33RZ48

Hospital Tip Geared Continuous Hinges

PEMKO ASSA ABLOY

- 83" L
- 0.125" leaf thickness

Right hand hinges are geared and feature anodized aluminum construction.

Overall Width	Overall Knuckle Height	Holes per Leaf	Right Hand Color	Right Hand Item No.	Left Hand Color	Left Hand Item No.
Half Surface						
4 1/2"	2"	10	Silver	33RZ57	Natural	40CE87
4 1/2"	2"	12	Silver	33RZ58	Natural	40CE88
Full Surface Center Pivot						
3 7/32"	2"	10	Silver	33RZ49	—	—
3 7/32"	2"	12	Silver	33RZ50	—	—
Full Surface						
2 1/8"	2"	10	Silver	33RZ48	Natural	40CE78
2 1/8"	2"	12	Silver	33RZ51	Natural	40CE81
3 7/32"	2"	10	—	—	Natural	40CE79
3 7/32"	2"	12	—	—	Natural	40CE80



No. 2EUN6



No. 2EUP1

Standard Geared Continuous Hinges

PEMKO ASSA ABLOY

- 83" L
- 0.187" leaf thickness

Door Leaf Height	Door Leaf Width	Includes	Color	Overall Width	Holes per Leaf	Item No.
Full Surface						
15/16"	1 3/8"	14 Bearings	Natural	2 1/8"	10	2EUN6
		27 Bearings				2EUN9
Center Pivot						
3/4"	2"	14 Bearings	Natural	3 7/32"	10	2EUP1
			Dark Bronze			2EUP3
		27 Bearings	Natural			2EUP4

Continuous Hinges



No. 54HT35

MONROE

Holes	Pin Dia.	Door Leaf Width	Overall Knuckle Height	Finish	Material	48" Item No.	72" Item No.	96" Item No.
0.035" Frame Leaf Thickness								
Without	⅛"	¾"	¼"	Mill Aluminum	Aluminum	—	54HT49	—
Without	⅛"	¾"	¼"	Mill Steel	Steel	—	54HT73	—
Without	⅛"	¾"	¼"	SS	SS	—	54HU13	—
Without	⅛"	1½"	¼"	Mill Steel	Steel	—	54HT74	—
0.040" Frame Leaf Thickness								
With	3/32"	1 1/16"	½"	Bright Nickel	Steel	54PC99	54PC94	—
With	3/32"	1 1/16"	½"	Mill	Aluminum	—	54PC64	—
With	3/32"	1 1/16"	½"	Mill	SS	—	54PC73	—
With	3/32"	1 1/16"	½"	Mill	Steel	—	54PC85	—
With	3/32"	1¼"	½"	Mill	SS	54PC71	54PC72	—
With	3/32"	1¼"	½"	Mill	Steel	—	54PC87	—
With	3/32"	1¼"	½"	Bright Nickel	Steel	54PD01	54PC97	—
With	3/32"	1¼"	½"	Bright Brass	Steel	54PD16	54PD12	—
With	3/32"	1½"	½"	Mill	Aluminum	—	54PC63	—
With	3/32"	1½"	½"	Mill	SS	54PC68	54PC67	—
With	3/32"	1½"	½"	Mill	Steel	—	54PC86	—
With	3/32"	1½"	½"	Bright Nickel	Steel	54PC95	54PC93	—
With	3/32"	1½"	½"	Bright Brass	Steel	54PD11	54PD13	—
With	3/32"	2"	½"	Mill	SS	—	54PC66	—
With	3/32"	2"	½"	Mill	Steel	—	54PC88	—
With	3/32"	2"	½"	Bright Nickel	Steel	54PC96	54PC98	—
With	3/32"	2"	½"	Bright Brass	Steel	54PD17	—	—
Without	3/32"	1 1/16"	½"	Mill Aluminum	Aluminum	—	54HT37	—
Without	3/32"	1¼"	½"	Mill Aluminum	Aluminum	—	54HT38	—
Without	3/32"	1½"	½"	Steel	Steel	—	54PC80	—
Without	3/32"	2"	½"	Mill Steel	Steel	—	54HT61	—
Without	3/32"	2"	½"	Steel	Steel	—	54PC83	—
Without	29/32"	1"	½"	SS	SS	—	54HT95	—
Without	59/64"	1 1/16"	½"	SS	SS	—	54HT91	—
Without	59/64"	1 1/16"	½"	Mill Steel	Steel	—	54HT58	—
Without	59/64"	1¼"	½"	SS	SS	—	54HT92	54HT93
Without	59/64"	1¼"	½"	Mill Steel	Steel	—	54HT59	—
Without	59/64"	1½"	½"	SS	SS	—	54HT94	—
Without	59/64"	1½"	½"	Mill Aluminum	Aluminum	—	54HT39	54HT40
Without	59/64"	1½"	½"	Mill Steel	Steel	—	54HT60	—
Without	59/64"	2"	½"	Mill Aluminum	Aluminum	—	54HT41	—
0.050" Frame Leaf Thickness								
Without	⅛"	1½"	½"	Mill Steel	Steel	—	54HT62	—
Without	⅛"	1½"	½"	SS	SS	—	54HT96	—
Without	⅛"	1½"	½"	Mill Aluminum	Aluminum	—	54HT42	—
Without	⅛"	2"	½"	SS	SS	—	54HT97	—
Without	⅛"	2"	½"	Mill Aluminum	Aluminum	—	54HT43	—
Without	⅛"	2"	½"	Mill Steel	Steel	—	54HT63	—
0.060" Frame Leaf Thickness								
With	3/32"	2"	½"	Bright Brass	Steel	—	54PD15	—
With	1/16"	¾"	½"	Bright Nickel	Steel	—	54PD03	—
With	⅛"	1¼"	½"	Bright Nickel	Steel	54PD10	54PD09	—
With	⅛"	1½"	½"	Mill	SS	54PC78	54PC75	—
With	⅛"	1½"	½"	Mill	Steel	—	54PC89	—
With	⅛"	1½"	½"	Bright Nickel	Steel	54PD06	—	—
With	⅛"	1½"	½"	Bright Brass	Steel	54PD20	54PD14	—
With	⅛"	2"	½"	Mill	Aluminum	—	54PC65	—
With	⅛"	2"	½"	Mill	SS	54PC79	54PC74	—
With	⅛"	2"	½"	Mill	Steel	—	54PC90	—
With	⅛"	2"	½"	Bright Nickel	Steel	54PD07	54PD02	—
With	⅛"	2"	½"	Bright Brass	Steel	54PD21	54PD18	—
With	⅛"	2½"	½"	Mill	Steel	—	54PC91	—
With	⅛"	2½"	½"	Bright Nickel	Steel	—	54PD08	—
With	⅛"	3"	½"	Mill	SS	54PC77	54PC76	—
With	⅛"	3"	½"	Mill	Steel	—	54PC92	—
With	⅛"	3"	½"	Bright Nickel	Steel	54PD05	54PD04	—

Holes	Pin Dia.	Door Leaf Width	Overall Knuckle Height	Finish	Material	48" Item No.	72" Item No.	96" Item No.
With	⅛"	3"	½"	Bright Brass	Steel	54PD22	54PD19	—
Without	⅛"	½"	½"	SS	SS	—	—	54HT99
Without	⅛"	1 1/4"	½"	SS	SS	—	54HT98	—
Without	⅛"	1¼"	½"	Mill Steel	Steel	—	54HT64	—
Without	⅛"	1½"	½"	Steel	Steel	—	54PC81	—
Without	⅛"	1½"	½"	Mill Aluminum	Aluminum	—	54HT44	—
Without	⅛"	1½"	½"	Mill Steel	Steel	—	54HT65	—
Without	⅛"	1½"	½"	SS	SS	—	54HU01	54HU02
Without	⅛"	2"	½"	Steel	Steel	—	54PC82	—
Without	⅛"	2"	½"	SS	SS	—	54HU07	—
Without	⅛"	2"	½"	Mill Steel	Steel	—	54HT66	54HT67
Without	⅛"	2"	½"	Mill Aluminum	Aluminum	—	54HT45	—
Without	⅛"	2"	½"	SS	SS	—	54HU03	54HU04
Without	⅛"	2½"	½"	Mill Steel	Steel	—	54HT68	—
Without	⅛"	2½"	½"	Mill Aluminum	Aluminum	—	54HT46	—
Without	⅛"	2½"	½"	SS	SS	—	54HU05	—
Without	⅛"	3"	½"	Mill Aluminum	Aluminum	—	54HT47	—
Without	⅛"	3"	½"	SS	SS	—	54HU06	—
Without	⅛"	3"	½"	Steel	Steel	—	54PC84	—
Without	⅛"	4"	½"	Mill Aluminum	Aluminum	—	54HT48	—
Without	3/16"	1½"	½"	SS	SS	—	54HU08	—
Without	3/16"	2"	½"	Mill Steel	Steel	—	54HT71	—
Without	3/16"	2"	½"	SS	SS	—	54HU09	54HU10
Without	3/16"	2½"	½"	SS	SS	—	54HU11	—
Without	3/16"	3"	½"	Mill Steel	Steel	—	54HT72	—
Without	3/16"	3"	½"	SS	SS	—	54HU12	—
0.074" Frame Leaf Thickness								
Without	3/16"	2"	1"	Mill Steel	Steel	—	54HT80	—
Without	3/16"	2"	1"	SS	SS	—	54HU18	—
Without	3/16"	2½"	1"	Mill Steel	Steel	—	54HT81	—
Without	3/16"	3"	1"	Mill Steel	Steel	—	54HT82	—
Without	¼"	1½"	1"	Mill Steel	Steel	—	54HT79	—
Without	¼"	1½"	1"	Mill Aluminum	Aluminum	—	54HT52	—
Without	¼"	2"	1"	Mill Steel	Steel	—	54HT75	—
Without	¼"	2"	1"	Mill Aluminum	Aluminum	—	54HT50	—
Without	¼"	2"	1"	SS	SS	—	54HU14	—
Without	¼"	2½"	1"	Mill Steel	Steel	—	54HT76	—
Without	¼"	2½"	1"	SS	SS	—	54HU15	—
Without	¼"	2½"	1"	Mill Aluminum	Aluminum	—	54HT51	—
Without	¼"	3"	1"	Mill Steel	Steel	—	54HT77	54HT85
Without	¼"	3"	1"	SS	SS	—	54HU16	—
Without	¼"	4"	1"	SS	SS	—	54HU17	—
Without	¼"	4"	1"	Mill Steel	Steel	—	54HT78	—
0.090" Frame Leaf Thickness								
Without	¼"	2"	1"	Mill Steel	Steel	—	54HT83	—
Without	¼"	2"	1"	Mill Aluminum	Aluminum	—	54HT53	—
Without	¼"	2"	1"	SS	SS	—	54HU19	—
Without	¼"	3"	1"	Mill Steel	Steel	—	54HT84	—
Without	¼"	3"	1"	SS	SS	—	54HU20	—
Without	¼"	4"	1"	SS	SS	—	54HU21	—
Without	¼"	4"	1"	Mill Steel	Steel	—	54HT86	—
0.120" Frame Leaf Thickness								
Without	3/8"	2"	2"	Mill Steel	Steel	—	54HT54	—
Without	3/8"	2"	2"	SS	SS	—	54HT87	54HT88
Without	3/8"	2½"	2"	Mill Steel	Steel	—	54HT55	—
Without	3/8"	3"	2"	Mill Aluminum	Aluminum	—	54HT35	—
Without	3/8"	3"	2"	SS	SS	—	54HT89	—
Without	3/8"	3"	2"	Mill Steel	Steel	—	54HT56	—
Without	3/8"	4"	2"	SS	SS	—	54HT90	—
Without	3/8"	4"	2"	Mill Steel	Steel	—	54HT57	—
Without	3/8"	4"	2"	Mill Aluminum	Aluminum	—	54HT36	—

Unfinished Steel Hinges with Steel Pins, No Holes

Overall Width	Pin Dia.	Overall Knuckle Height	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	5-FT. LENGTH Item No.	6-FT. LENGTH Item No.	8-FT. LENGTH Item No.
0.025" Leaf Thickness							
¾"	1/16"	¼"	2ZDV2	—	—	2ZDV3	—
1"	1/16"	¼"	2ZDV4	—	—	2ZDV5	—
0.030" Leaf Thickness							
¾"	5/64"	¼"	—	5MVP9	5MVR0	—	5MVR1
1½"	5/64"	¼"	—	5MVR8	—	—	5MVT0
0.035" Leaf Thickness							
¾"	5/64"	¼"	2ZDV6	—	—	1CAG3	—
1½"	1/16"	¼"	—	—	—	1CAH3	—
0.040" Leaf Thickness							
1 1/16"	3/32"	½"	2ZDW2	—	5MVT2	4PB14	5MVT3
1¼"	3/32"	½"	2ZDW3	5MVT4	—	—	—
1½"	3/32"	½"	2ZDW4	5MVT7	5MVT8	4PB15	5MVT9
2"	3/32"	½"	2ZDW5	5MVU0	5MVU1	4PB16	5MVU2
0.050" Leaf Thickness							
1 1/16"	⅛"	½"	—	4PNC3	—	—	4PNC6
1¼"	⅛"	½"	2ZDW6	2ZDW7	2ZDW8	2ZDW9	2ZDX1
1½"	⅛"	½"	2ZDX2	1CBY1	2ZDX3	1CBY4	2ZDX4
2"	⅛"	½"	2ZDX5	—	2ZDX6	1CBZ1	2ZDX7
0.060" Leaf Thickness							
1 1/16"	⅛"	½"	2ZDX8	2ZDX9	—	2ZDY2	2ZDY3
1¼"	⅛"	½"	2ZDY4	1CCP3	—	1CCP6	2ZDY6
1½"	⅛"	½"	2ZDY7	1CDF4	2ZDZ3	4PB34	1CDF8
1½"	3/16"	½"	2ZDY8	2ZDZ1	2ZDZ4	2ZDZ6	2ZDZ8
1½"	3/16"	1"	—	2ZDZ2	2ZDZ5	2ZDZ7	—
1¾"	⅛"	½"	—	—	—	2ZEA4	—
2"	⅛"	½"	2ZEA6	1CDG2	2ZEC1	4PB35	1CDG5
2"	3/16"	1"	2ZEA8	1JEH8	2ZEC3	2ZEC4	2ZEC6
2"	3/16"	½"	2ZEA7	2ZEA9	2ZEC2	—	—
2½"	⅛"	½"	—	2ZED1	2ZED4	4PB36	—
3"	⅛"	½"	2ZEE3	1JEG7	—	4PB37	1JEG8
3"	3/16"	½"	—	—	2ZEE7	2ZEE8	—

Overall Width	Pin Dia.	Overall Knuckle Height	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	5-FT. LENGTH Item No.	6-FT. LENGTH Item No.	8-FT. LENGTH Item No.
0.075" Leaf Thickness							
1½"	3/16"	1"	2ZEK5	2ZEK6	2ZEK7	2ZEK8	2ZEK9
1½"	¼"	1"	2ZEG2	2ZEG3	2ZEG4	2ZEG5	2ZEG6
2"	3/16"	1"	2ZEL1	—	2ZEL3	—	—
2"	¼"	1"	—	2ZEG8	—	2ZEH1	1JET1
2"	¼"	1"	2ZEG7	1JER8	2ZEG9	1JER9	2ZEH2
2½"	¼"	1"	—	2ZEH4	—	—	2ZEH7
2½"	¼"	1"	—	1JET2	2ZEH5	1JET3	1JET4
3"	3/16"	1"	2ZEN2	1JET5	2ZEN4	1JET6	1JET7
3"	¼"	1"	—	2ZEH9	2ZEJ1	2ZEJ2	2ZEJ3
4"	3/16"	1"	2ZEN7	—	—	—	—
4"	¼"	1"	—	1JEU2	—	1JEU3	2ZEK4
4"	¼"	1"	—	2ZEK1	—	2ZEK3	—
0.090" Leaf Thickness							
2"	¼"	1"	2ZEP3	2ZEP4	2ZEP5	2ZEP6	2ZEP7
3"	¼"	1"	2ZEP8	2ZEP9	2ZER1	2ZER2	2ZER3
4"	¼"	1"	2ZER4	2ZER5	—	2ZER7	2ZER8

Overall Width	Pin Dia.	Overall Knuckle Height	1-FT. LENGTH Item No.	2-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.	8-FT. LENGTH Item No.
0.120" Leaf Thickness							
2"	¼"	2"	2ZET5	2ZET7	2ZET9	2ZEU2	2ZEU4
2"	3/8"	2"	2ZET6	2ZET8	2ZEU1	2ZEU3	2ZEU5
2½"	3/8"	2"	—	—	1JEY6	2ZEU8	—
3"	¼"	2"	—	2ZEV3	2ZEV5	2ZEV6	2ZEV8
3"	3/8"	2"	2ZEV2	2ZEV4	1JEY8	2ZEV7	2ZEV9
4"	3/8"	2"	2ZEW6	—	1JEZ1	2ZEW8	2ZEW9
0.180" Leaf Thickness							
3"	½"	2"	2ZEX5	2ZEX6	1JFL6	2ZEX7	1JFL7
4"	½"	2"	2ZEX8	—	2ZEY1	2ZEY2	2ZEY3
0.250" Leaf Thickness							
3"	5/8"	2"	4PND3	—	—	—	—

GA GRAINGER APPROVED

Hinges can be surface mounted by drilling holes and using fasteners, or spot welded. Can be cut using a hacksaw. 270° range of motion. Additional sizes available on Grainger.com®.




No. 33RT73


No. 33RT80


No. 33RT87

Markar
ASSA ABLOY

Hospital Tip Continuous Hinges

L	W	Leaf Thickness	Material	Holes per Leaf	Color	Item No.
Full Mortise Continuous Hinge						
84"	2¼"	0.083"	Carbon Steel	21	Gray	**33RT73**
84"	2⅛"	0.125"	Aluminum	21	Aluminum	**33RT76**
84"	2⅛"	0.125"	Aluminum	21	Dark Bronze	**33RT80**
96"	2¼"	0.083"	Carbon Steel	24	Gray	**33RT75**
96"	2¼"	0.083"	Stainless Steel	24	Satin	**33RT94**
96"	2⅛"	0.125"	Aluminum	21	Aluminum	**33RT82**
96"	2⅛"	0.125"	Aluminum	21	Dark Bronze	**33RT86**
Full Surface Continuous Hinge						
84"	1 1⁄16"	0.083"	Carbon Steel	24	Gray	**33RT78**
84"	1 1⁄16"	0.083"	Stainless Steel	21	Satin	**33RT87**
84"	1 1⁄16"	0.075"	Carbon Steel	24	Gray	**40CF04**
84"	1 1⁄16"	0.075"	Stainless Steel	21	Silver	**40CF06**
84"	2⅛"	0.125"	Aluminum	21	Aluminum	**33RT77**
84"	2⅛"	0.125"	Aluminum	21	Dark Bronze	**33RT92**
84"	2⅛"	0.125"	Aluminum	21	Natural	**40CF01**
96"	1 1⁄16"	0.083"	Carbon Steel	24	Gray	**33RT84**
96"	1 1⁄16"	0.075"	Carbon Steel	24	Gray	**40CF05**


No. 4PPP3


No. 4PPU2

Narrow-Profile Weld-On Lift-Off Hinges

GRAINGER APPROVED

Suitable for tight spaces, and can be welded in place horizontally or vertically. Hinges can be mounted flush, offset, or straight. Pin is permanently attached to the frame leaf. Reversible for left- or right-handed applications.

H	W	Pin Dia.	Pin Material	Item No.
Stainless Steel				
2⅛"	15⁄32"	¼"	Stainless Steel	**4PPR4**
2¾"	½"	¼"	Stainless Steel	**4PPR5**
3 9⁄32"	⅝"	5⁄16"	Stainless Steel	**4PPR6**
3 15⁄16"	¾"	⅜"	Stainless Steel	**4PPR7**
5⅛"	29⁄32"	½"	Stainless Steel	**4PPR8**
5 29⁄32"	1"	½"	Stainless Steel	**4PPR9**
Steel				
1 19⁄32"	⅜"	3⁄16"	Steel	**4PPP3**
2⅛"	15⁄32"	¼"	Steel	**4PPP4**
2¾"	½"	¼"	Steel	**4PPP5**
3 9⁄32"	⅝"	5⁄16"	Steel	**4PPP6**
3 15⁄16"	¾"	⅜"	Steel	**4PPP7**
3 13⁄32"	⅝"	5⁄16"	Brass with Grease Fitting	**4PPU2**
4 3⁄16"	¾"	⅜"	Brass with Grease Fitting	**4PPU3**
4¾"	¾"	⅜"	Steel	**4PPP8**
5"	¾"	⅜"	Brass with Grease Fitting	**4PPU4**
5⅛"	29⁄32"	½"	Steel	**4PPP9**
5 29⁄32"	1"	½"	Steel	**4PPR1**
7 3⁄32"	1"	½"	Steel	**4PPR2**
7⅞"	1⅛"	⅝"	Steel	**4PPR3**
6 9⁄32"	1"	½"	Brass with Grease Fitting	**4PPU5**
7⅓"	1"	½"	Brass with Grease Fitting	**4PPU6**
8⅛"	1⅛"	⅝"	Brass with Grease Fitting	**4PPU7**
Aluminum				
2⅛"	15⁄32"	¼"	Stainless Steel	**4PPT3**
2¾"	½"	¼"	Stainless Steel	**4PPT4**
3 9⁄32"	⅝"	5⁄16"	Stainless Steel	**4PPT5**
3 15⁄16"	¾"	⅜"	Stainless Steel	**4PPT6**
5 29⁄32"	1"	½"	Stainless Steel	**4PPT8**
7⅞"	1⅛"	⅝"	Stainless Steel	**4PPU1**


No. 1XMG9

No. 1XMG7

Lift-Off Hinges

GRAINGER APPROVED

Surface-mount hinges allow quick door removal by lifting door from door-mounted hinge leaf. 304 stainless steel for use in corrosive environments. Black powder-coated. 300-lb. door capacity. 4 concealed mounting holes. Use #10 screws to mount; hardware not included.

				WITHOUT HOLES				WITH HOLES			
				RIGHT-HANDED		LEFT-HANDED		RIGHT-HANDED		LEFT-HANDED	
H	W	Pin Dia.	Range of Motion	Leaf Thickness	Item No.	Leaf Thickness	Item No.	Leaf Thickness	Item No.	Leaf Thickness	Item No.
Steel											
2"	1 1⁄16"	⅛"	270°	¾"	**3HWC4**	—	—	¾"	**3HUF1**	0.078"	**3HUG5**
2"	2"	3⁄16"	270°	51⁄64"	**3HWC6**	51⁄64"	**3HWE7**	2/25"	**3HUF2**	5⁄64"	**3HUG6**
2½"	2½"	3⁄16"	270°	—	—	—	—	5⁄64"	**3HUF4**	—	—
2½"	2½"	15⁄64"	270°	—	—	—	—	—	—	5⁄64"	**3HUG8**
3"	3"	¼"	270°	—	—	5⁄64"	**3HWF1**	5⁄64"	**3HUF5**	5⁄64"	**3HUG9**
4"	3"	¼"	270°	7⁄64"	**3HWD1**	7⁄64"	**3HWF2**	7⁄64"	**3HUF6**	7⁄64"	**3HUH1**
4"	4"	¼"	270°	—	—	—	—	7⁄64"	**3HUF7**	—	—
Stainless Steel											
2"	1 1⁄16"	3⁄16"	270°	5⁄64"	**3HWD6**	51⁄64"	**3HUE4**	51⁄64"	**3HUF8**	51⁄64"	**3HUH3**
2½"	2"	¼"	180°	—	—	—	—	½"	**1XMG7**	—	—
2½"	2½"	3⁄16"	270°	—	—	—	—	—	—	3⁄4"	**3HUH4**
3"	2"	3⁄16"	270°	—	—	5⁄64"	**3HUE6**	5⁄64"	**3HUG1**	5⁄64"	**3HUH5**
3"	3"	¼"	270°	5⁄64"	**3HWE3**	5⁄64"	**3HUE7**	—	—	5⁄64"	**3HUH6**
4"	3"	¼"	270°	—	—	—	—	—	—	7⁄64"	**3HUH7**
4"	4"	¼"	270°	—	—	—	—	7⁄64"	**3HUG4**	—	—
Black Powder Coat Cast Zinc											
2½"	1 1⁄16"	⅜"	180°	—	—	—	—	1 1⁄16"	**1XMG9** *	—	—
2½"	1¼"	⅜"	180°	—	—	—	—	1 1⁄16"	**1XMH1**	—	—

For nonhanded lift-off hinge, order Nos. 1XMG9, 49U523, 49U524, 49U525 or 49U527.


A.
No. 2YFF5


A.
No. 2YFG6


B.
No. 2YFG8


C.
No. 2YEY1


D.
No. 2YEY3


E.
No. 2YFF9

Load-Rated Continuous Hinges with Holes

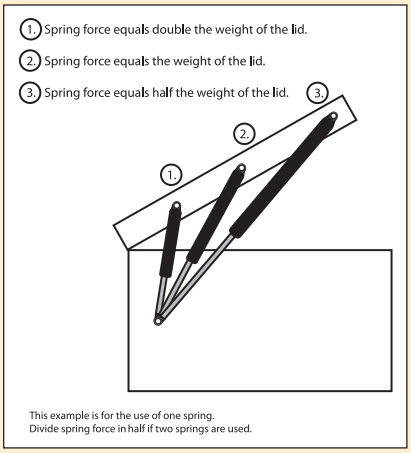
Markar
ASSA ABLOY

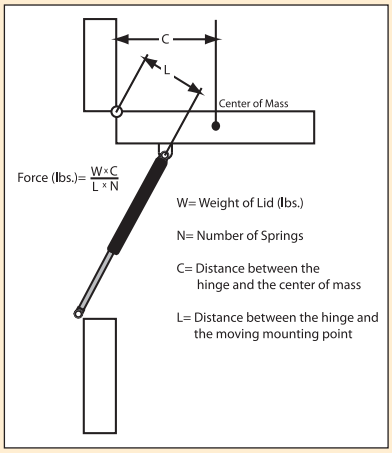
- Hardware included

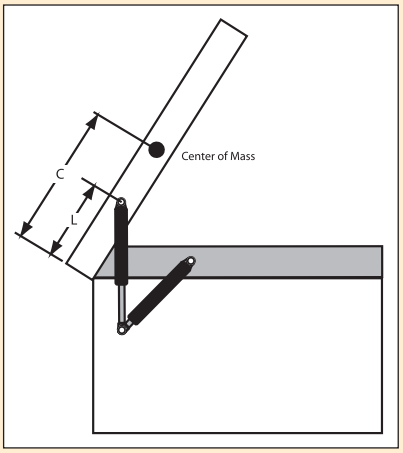
All hinges are heavy-duty, 14-ga. steel and are rated for doors weighing up to 600 lb., up to 1¾" thick, and with a max. door width of 4 ft. Min. door clearance of ⅛", except for Nos. 2YEY3 and 2YEY4 which are ⅜". Hinges have 1⅞" knuckles, ¾"-dia. 304 stainless steel hinge pins, and long-life split nylon bearings.

Key	H	Leaf Thickness	304 STAINLESS STEEL Item No.	1012 CARBON STEEL Item No.	ALUMINUM WITH CLEAR FINISH Item No.	ALUMINUM WITH DARK BRONZE FINISH Item No.
A	84"	0.4375"	**2YEX8**	**2YFF5**	**2YFG4**	**2YFG6**
A	96"	0.4375"	**2YEX9**	**2YFF6**	**2YFG5**	**2YFG7**
B	84"	0.4375"	**2YEX6**	**2YFF3**	**2YFG8**	**2YFH1**
B	96"	0.4375"	—	**2YFF4**	**2YFG9**	**2YFH2**
C	84"	0.437", 0.125"	**2YEY1**	**2YFF7**	—	—
C	96"	0.437", 0.125"	**2YEY2**	**2YFF8**	—	—
D	84"	0.125"	**2YEY3**	—	—	—
D	96"	0.125"	**2YEY4**	—	—	—
E	84"	0.125"	**2YEY5**	**2YFF1**	**2YFF9**	**2YFG2**
E	96"	0.125"	**2YEY6**	**2YFF2**	**2YFG1**	**2YFG3**

Choosing the Right Gas Spring







Gas springs are the perfect solution for almost any hinged application requiring lift assist. They can also be designed to hold a lid in the open position. Gas springs are filled with nitrogen, a nonflammable gas, as well as oil, to lubricate the internal components of the gas spring.

APPROXIMATING THE REQUIRED FORCE

The diagram above can be used to approximate the force required in the gas spring. A mounting point directly on the center of mass will result in a gas spring requiring about the same force as the weight of the lid. Directly between the center of mass and the hinge will require about double the force. Twice the distance from the hinge to the center of mass will require a force about half the weight of the lid.

CALCULATING THE REQUIRED FORCE

The gas spring force can be more closely approximated using the above diagrams and equation. The force calculated will be enough to hold the lid open in the fully extended position. Because of friction and other application variables, you may want to choose a spring with a force about 10% higher than calculated.

CHOOSING THE RIGHT LENGTH

To choose the right length gas spring, first determine the distance between the mounting points when the application is in the open or extended position. You will want to choose a gas spring with an extended length equal, or nearly equal, to this length.

Next, measure the distance between the mounting points when the application is closed or fully compressed. You will want to choose a gas spring with a compressed length that is less than this length. Choosing a gas spring with a longer compressed length will result in an application that will not work properly. The stroke length of the gas spring can be calculated as the difference between the extended length and compressed length.

Steel and 316L Stainless Steel Gas Springs

Bansbach easylift

- Temp. range: -22° to 176°F

Steel springs feature CeramPro®-treated rod technology to provide a smooth, durable surface. Powder-coated cylinders provide maximum resistance to corrosion. Springs are filled with nitrogen (N_2). Stainless steel springs are constructed of 316L stainless steel. Please be sure to note the thread sizes on either end of the gas spring and that of the fitting when matching the 2. More traction, locking and high temperature gas springs with elbow fittings are available on Grainger.com.



No. D9215

Rod Dia.	Stroke	Extended Length	Compressed Length	Cylinder Dia.	▶CHOOSE: Force	Rod Thread Size	Item No.
Steel							
0.24"	2.36"	5.91"	3.55"	0.59"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb.	M5	D9215
0.24"	3.54"	8.15"	4.61"	0.59"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb.	M5	D9216
0.32"	1.97"	5.81"	3.85"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9197
0.32"	3.15"	8.35"	5.20"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9198
0.32"	3.94"	10.71"	6.77"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9199
0.32"	5.51"	13.74"	8.23"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9201
0.32"	6.3"	15.63"	9.33"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9202
0.32"	7.87"	18.19"	10.32"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb.	M8	D9203
0.32"	8.27"	18.62"	10.35"	0.75"	100 lb., 110 lb., 120 lb., 130 lb.	M8	D9204
0.32"	9.84"	22.36"	12.52"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9205
0.39"	7.87"	18.23"	10.36"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9206
0.39"	10.24"	26.38"	16.14"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9207
0.39"	12.8"	27.99"	15.19"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9208
0.39"	13.78"	29.41"	15.63"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9209
0.39"	16.14"	33.94"	17.99"	0.87"	50 lb., 75 lb., 25 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9211
0.55"	7.99"	18.9"	11.03"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9212
0.55"	12"	26.77"	14.96"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9213
0.55"	15.98"	34.84"	19.09"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9214
316L Stainless Steel							
0.24"	1.97"	5.04"	3.07"	0.59"	10 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb.	M5	D9224
0.24"	3.94"	9.06"	5.12"	0.59"	10 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb.	M5	D9225
0.24"	5.91"	12.99"	7.08"	0.59"	10 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb.	M5	D9226
0.32"	3.94"	10.71"	6.77"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9217
0.32"	5.51"	13.74"	8.23"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9218
0.32"	6.3"	15.63"	9.33"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9219
0.32"	7.87"	18.19"	10.32"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb.	M8	D9221
0.32"	8.27"	18.62"	10.35"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9222
0.32"	9.84"	22.36"	12.52"	0.75"	15 lb., 20 lb., 30 lb., 40 lb., 50 lb., 60 lb., 70 lb., 80 lb., 90 lb., 100 lb., 110 lb., 120 lb., 130 lb.	M8	D9223
0.39"	7.87"	18.23"	10.36"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9184
0.39"	10.24"	26.38"	16.14"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9185
0.39"	12.8"	27.99"	15.19"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9186
0.39"	16.14"	33.94"	17.99"	0.87"	25 lb., 50 lb., 75 lb., 100 lb., 125 lb., 150 lb., 175 lb., 200 lb., 225 lb., 250 lb.	M8	D9187
0.55"	7.99"	18.9"	10.91"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9188
0.55"	12"	26.77"	14.77"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9189
0.55"	15.98"	34.84"	18.86"	1.1"	200 lb., 250 lb., 300 lb., 350 lb., 400 lb., 500 lb., 550 lb.	M10	D9191


No. 1RBP9


No. 1XPD5


No. 4RRK3


No. 4RRK9


No. 4RRL2


No. 1XPE2


No. 1XPE3


No. 1XPA6


No. 4RRL7


No. 5CRU5


No. 1XPE5


No. 5CRV4


No. 1XPC8


No. 1XPB8


No. 1XPC1


No. 4RRF3


No. 3HJE8

GA GRAINGER APPROVED

Latches

- Hardware not included unless otherwise specified

Type	Finish	W	H	D	Item No.
Latching Draw Hasps					
Latching	Natural	2¾"	¾"	¾"	**1RBR4** *
Latching	Zinc Plated	2¾"	¾"	¾"	**1RBP9** *
Latching	Zinc Plated	5"	1 19/32"	¾"	**1RBR6** *
Draw Latches					
Adjustable	Passivated	2 43/64"	19/32"	1 3/16"	**1XPD5**
Adjustable	Passivated	4 7/16"	37/64"	7/8"	**1XPD6**
Adjustable Under Center	Natural	3 23/32"	1 3/16"	¾"	**4RRK8**
Adjustable Under Center	Zinc Plated	3 23/32"	1 3/16"	¾"	**4RRK7**
Adjustable Under Center, Concealed Secondary Catch	Natural	2 23/32"	1 1/16"	27/32"	**4RRK4**
Adjustable Under Center, Concealed Secondary Catch	Zinc Plated	2 23/32"	1 1/16"	27/32"	**4RRK3**
Adjustable Under Center, Concealed, Padlock Hasp	Natural	2 23/32"	1 1/16"	27/32"	**4RRK6**
Adjustable Under Center, Padlock Hasp	Natural	3 23/32"	1 3/16"	1⅛"	**4RRL1**
Adjustable Under Center, Padlock Hasp	Zinc Plated	3 23/32"	1 3/16"	1⅛"	**4RRK9**
Adjustable Under Center	Passivated	4¾"	¾"	2"	**1XPC9**
Flexible Over Center Concealed	Black	4 5/32"	1¼"	¾"	**4RRL4**
Over Center Single Hole Peg	Zinc Plated	1¾"	½"	5/16"	**4RRL2**
Over Center w/ Concealed Mounting	Passivated	2 7/32"	1¾"	2"	**1XPE2**
Over Center w/ Concealed Mounting	Passivated	3"	1¼"	1 7/64"	**1XPE4**
Over Center w/ Exposed Mounting	Passivated	1 7/16"	1¾"	2"	**1XPE1**
Over Center w/ Exposed Mounting	Passivated	3"	1¼"	1 7/64"	**1XPE3**
Rubber T-Handle	Black Rubber	3 13/32"	3½"	1¼"	**1XPA6**
Rubber T-Handle	Black Rubber	4 21/64"	1 3/32"	23/64"	**1XPA7**
Rubber T-Handle	Black Rubber	5⅛"	3⅝"	1⅝"	**1XPA8**
Rubber T-Handle, Flexible, Pull Type, Concealed Mounting	Black	1 19/64"	3 5/32"	15/32"	**4RRL7**
Rubber T-Handle, Flexible, Pull Type, Front Mounting	Black	8 23/32"	1 13/16"	1⅛"	**4RRN1**
Rubber T-Handle, Flexible, Pull Type, Front Mounting	Black	4 13/32"	1 27/32"	1¼"	**4RRL8**
Spring-Loaded	Natural	2½"	1½"	½"	**5CRU5**
Spring-Loaded	Natural	3½"	1¾"	⅝"	**5CRU6**
Under Center w/ Keeper	Natural	3¼"	1 29/64"	1"	**1XPE5**
Under Center w/ Keeper	Natural	3⅜"	¾"	1½"	**1XPE7**
Under Center w/ Keeper, Padlockable	Natural	3¼"	⅞"	1¼"	**1XPE6**
Draw-to-Close	Polished	1½"	1 37/64"	15/32"	**5CRV4**
Draw-to-Close	Polished	—	3 5/32"	¾"	**5CRV5**
Draw-to-Close	Polished	2 3/64"	2 3/64"	2 3/64"	**5CRV8**
Pivot Pawl Latches					
Push to Close/Locking	Black Powder Coated	6 11/16"	⅞"	1⅞"	**1XPC8**
Paddle Latches					
Push to Close/Locking	Black Powder Coated	4¾"	3⅝"	⅞"	**1XPB8**
Push to Close/Locking	Passivated	5½"	4¼"	⅞"	**1XPC4**
Push to Close/Locking	Zinc Plated	4¾"	3⅝"	⅞"	**1XPB7**
Push to Close/Locking	Zinc Plated	5½"	4¼"	⅞"	**1XPC2**
Push to Close/Nonlocking	Black Powder Coated	5½"	4¼"	⅞"	**1XPC1**
Push to Close/Nonlocking	Zinc Plated	5½"	4¼"	⅞"	**1XPB9**
Push to Close/Nonlocking	Zinc Plated	4¾"	3⅝"	⅞"	**1XPB5**
Cam Latches					
Slotted	Passivated	2 5/16"	1¼"	1"	**1XPF1** *
Slotted	Black Powder Coated	2 5/16"	1½"	2 1/32"	**1XPF4** *
Slotted	Chrome	2 5/16"	2¾"	¾"	**1XPF5** *
Fixed Grip	Passivated	2 5/16"	1 3/32"	1⅛"	**4RRF3** *
Fixed Grip	Polished Chrome	2 5/16"	1 3/32"	1⅛"	**4RRF4** *
Fixed Grip	Passivated	2 5/16"	1 3/32"	1⅛"	**4RRF6** *
Fixed Grip	Polished Chrome	2 5/16"	1 3/32"	1⅛"	**4RRF7** *
Compression Latches					
Lift and Turn/Nonlocking	Polished Chrome	2¼"	1¼"	1 17/32"	**4RPZ2**
Lift and Turn/Nonlocking	Black Powder Coated	2¼"	1¼"	1 17/32"	**4RPZ3**
Push Button/Nonlocking	Black Powder Coated	1 11/32"	4 9/32"	1⅜"	**4RRA4**
Push Button/Locking	Black Powder Coated	1 11/32"	4 9/32"	1⅜"	**4RRA6**
Vise Action/Nonlocking	Black Powder Coated	1 13/32"	2"	2 17/32"	**4RRC2**
Vise Action/Hex Recess T-Handle	Black Powder Coated	1⅛"	1⅛"	2 17/32"	**4RRC3**
Vise Action/Slotted Recess	Black Powder Coated	1⅛"	1⅛"	2½"	**4RRC6**
Secret Latch					
Single-Acting Reversible	Satin Chrome	2 1/16"	1 1/16"	—	**3HJE8**

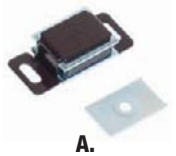
**** Includes hardware.***

GA GRAINGER APPROVED

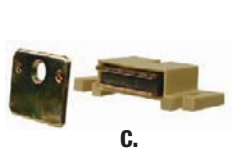
Magnetic Catches and Latches

Key	Pull Force	Catch L	Catch W	Strike L	Strike H	Material	Color	Hardware	Item No.
Surface-Mount Catches - Pull-to-Open									
A	1.7 lb.	1 3/16"	45/64"	27/33"	17/22"	Aluminum	Brown	Included	**4EVT1**
A	3.3 lb.	1 3/8"	53/64"	1 7/64"	39/64"	Aluminum	Silver	Included	**4EVT2**
A	6 lb.	7/8"	1 1/16"	1 1/4"	7/8"	Steel	Silver	Included	**1VZY4**
A	13 lb.	1 1/4"	1 1/16"	1 1/4"	7/8"	Steel	Silver	Included	**4PE51**
B	6 to 8 lb.	1 1/16"	55/64"	33/64"	33/64"	Plastic	Brown	Not Included	**4FCU6**
C	10 to 15 lb.	1 7/32"	27/32"	1"	1 3/16"	Plastic and Steel	Tan	Included	**4FCU8**
E	6.5 lb.	47/64"	1"	1 1/8"	3/4"	Aluminum	Silver	Included	**4FCV1**
E	13 lb.	47/64"	1"	1 1/8"	3/4"	Aluminum	Silver	Included	**4FCV3**
F	6 lb.	5/16"	59/64"	1 1/8"	1 3/16"	Steel	Black	Included	**4FCV5**
Surface-Mount Magnets - Pull-to-Open									
G	14 lb.	27/64"	3/4"	1 1/4"	3/4"	Aluminum	Silver	Not Included	**1XMT7**
Surface-Mount Catches - Pull-to-Open									
H	34 lb.	29/32"	2"	2 11/16"	3/4"	Brass	Brown	Included	**4FCV7**
I	50 lb.	1 1/8"	1 1/16"	1 15/16"	3/4"	Steel	Yellow	Not Included	**1WAA6**
I	17.6 lb.	25/64"	7/16"	1 3/16"	7/16"	Steel	Gray	Included	**4EVN1**
I	17.6 lb.	25/64"	7/16"	1 3/16"	7/16"	Steel	White	Included	**4EVN2**
J	6.1 lb.	45/64"	5/8"	1 1/2"	35/64"	Steel	White	Included	**4EVP8**
J	6.1 lb.	45/64"	5/8"	25/32"	33/64"	Steel	White	Included	**4EVP9**
J	5.2 lb.	43/64"	15/32"	1 3/16"	29/64"	Steel	White	Included	**4EVR1**
K	12.3 lb.	1 3/16"	5/8"	3 7/64"	35/64"	Stainless Steel	White	Included	**4EVR2**
K	12.3 lb.	1 3/16"	5/8"	1 1/2"	35/64"	Stainless Steel	White	Included	**4EVR3**
K	10.5 lb.	43/64"	33/64"	2 3/4"	15/32"	Stainless Steel	White	Included	**4EVR4**
K	31 lb.	43/64"	43/64"	—	—	Stainless Steel	Silver	Not Included	**5ENW0**
K	11 lb.	29/64"	7/16"	—	—	Stainless Steel	Silver	Not Included	**5ENW2**
K	15 lb.	43/64"	43/64"	—	—	Stainless Steel	Silver	Not Included	**5ENV9**
K	10.5 lb.	43/64"	33/64"	1 3/16"	7/16"	Stainless Steel	White	Included	**4EVR5**
L	6.6 lb.	27/32"	27/32"	55/64"	3/4"	Steel	Gray	Not Included	**4EVN5**
L	15.4 lb.	27/32"	27/32"	1 9/64"	3/4"	Steel	Gray	Not Included	**4EVN6**
L	24.2 lb.	27/32"	27/32"	1 11/16"	3/4"	Steel	Gray	Not Included	**4EVN7**
L	30.8 lb.	27/32"	27/32"	2 23/64"	3/4"	Steel	Gray	Not Included	**4EVN8**
L	33 lb.	27/32"	27/32"	2 23/64"	3/4"	Steel	Gray	Not Included	**4EVN4**
N	11 lb.	9/32"	25/32"	1 1/8"	1 3/16"	Steel	Black	Included	**4FCW2**
N	22 lb.	9/32"	25/32"	1 1/8"	1 3/16"	Steel	Black	Included	**4FCW4**
O	5 lb.	1 3/32"	45/64"	1 1/8"	3/4"	Plastic	Tan	Included	**4FCW6**
Surface-Mount Catches - Push-to-Open									
P	2.5 lb.	1 1/8"	1 1/8"	1 3/8"	1/2"	Plastic and Steel	Brown	Included	**1WAA1**
P	2.5 lb.	5/8"	1 19/32"	1 39/64"	61/64"	Plastic	Black	Included	**4FCW8**
P	2.5 lb.	5/8"	1 19/32"	1 39/64"	61/64"	Plastic and Steel	Black	Included	**4FCX1**
P	4 lb.	1 1/16"	1 19/32"	1 39/64"	61/64"	Plastic	Black	Included	**4FCX3**
Q	4 lb.	1 1/16"	1 19/32"	1 39/64"	61/64"	Plastic	Black	Included	**4FCX5**
Surface-Mount Touch Latches - Push-to-Open									
R	5.2 lb.	37/64"	1 13/16"	1 3/4"	15/32"	Plastic	Brown	Included	**5CJA5** *
R	5.2 lb.	37/64"	1 13/16"	1 3/4"	15/32"	Plastic	White	Included	**5CJA6** †
S	3.5 lb.	13/16"	1 27/64"	57/64"	15/32"	Plastic	Brown	Included	**5CRT9** *
S	3.5 lb.	13/16"	1 27/64"	57/64"	15/32"	Plastic	White	Included	**5CRU0** †
S	3.5 lb.	13/16"	1 27/64"	57/64"	15/32"	Plastic	Black	Included	**5CJA7** ‡
Mortise-Mount Catches- Pull-to-Open									
U	4 lb.	3/4"	27/32"	3/4"	3/4"	Aluminum	Silver	Included	**4FCY2**
V	13 lb.	63/64"	5/8"	1 1/4"	3/4"	Plastic	Black	Not Included	**1XMT5**
Sealed Magnetic Catches									
W	6.6 lb.	53/64"	33/64"	—	—	Polyacetal	Black	Not Included	**4EVP2**
W	3.3 lb.	3/4"	3/4"	—	—	Polyacetal	Light Gray	Not Included	**4EVP4**
Grab Catches									
X	—	2 1/8"	3/4"	2 1/8"	1 3/8"	Steel	Silver	Included	**1VZX5**
X	10 lb.	35/64"	1 7/64"	2 53/64"	29/64"	Plastic	Black	Not Included	**1XMU3**
X	4 lb.	3/4"	1 3/32"	1 1/4"	3/5"	Steel	Silver	Included	**4PE50**

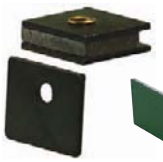
** Brown color. † White color. ‡ Black color.*

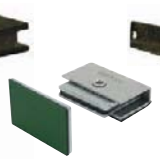

A.


B.


C.


E.


F.


G.


H.


I.


J.


K.


L.


M.


N.


O.


P.


Q.


R.


S.


U.


V.


W.


X.

Steel Drawer Slides, Side Mount

GA GRAINGER APPROVED

Precision ball bearings and raceways ensure smooth drawer operation. Slides have a positive stop so drawer will not disengage from the slide, and a hold-in detent firmly holds the drawer in a closed position. Load rating based on 50,000 cycles. Mounting screws included.

A. FULL EXTENSION WITH LEVER DISCONNECT

Drawer pulls out the entire length of the slide, except the 10" drawer travels only 9½". Slides have a lever release; just push the lever to release the drawer from the slide. Not for use on drawers that are wider than their length.

B. FULL EXTENSION, HOLD-OPEN WITH LEVER DISCONNECT

Same features as **A.**, but with an additional hold-open feature to hold the drawer in place when opened. Drawer requires greater pressure to close.

C. FULL EXTENSION WITHOUT DISCONNECT

Drawer can be pulled out the full closed length of the slide. Once installed, drawer cannot be removed without disassembling the slides.

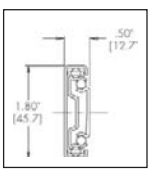
D. FULL EXTENSION WITH HANDED RAIL LIFT-OFF

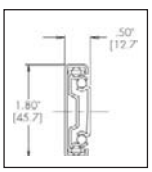
Lift-out release feature allows the drawer to be easily lifted up and out of the slide. Slides are full extension, allowing the drawer to be pulled out the full closed length of the slide.

Key	Closed Length	Travel Length	Side Mount Load Cap. per Pair	ZINC PLATED Item No.
Full Extension with Lever Disconnect				
A	11.81"	12"	100 lb.	**4KRV5**
A	13.78"	14"	100 lb.	**4KRV6**
A	15.75"	16"	100 lb.	**4KRV7**
A	17.72"	18"	100 lb.	**4KRV8**
A	19.69"	20"	100 lb.	**4KRV9**
A	21.65"	22"	100 lb.	**4KRW1**
A	23.62"	24"	100 lb.	**4KRW2**
A	27.56"	28"	100 lb.	**4KRW4**
A	9.84"	10"	100 lb.	**4KRV4**
Full Extension without Disconnect, Dual Mount				
A	18"	18"	500 lb.	**4KRZ6**
A	24"	24"	500 lb.	**4KRZ9**
A	36"	36"	500 lb.	**4KTA5**
Full Extension, Hold-Open with Lever Disconnect				
B	15.75"	16"	100 lb.	**4KRW8**
Full Extension without Disconnect				
C	12"	12"	273 lb.	**4KRU4**
C	14"	14"	267 lb.	**4KRU5**
C	16"	16"	261 lb.	**4KRU6**
C	18"	18"	253 lb.	**4KRU7**
C	20"	20"	244 lb.	**4KRU8**
C	22"	22"	233 lb.	**4KRU9**
C	24"	24"	220 lb.	**4KRV1**
C	28"	28"	182 lb.	**4KRV3**
Full Extension with Handed Rail Lift-Off				
D	8"	8"	75 lb.	**4KRP8**
D	10"	10"	76 lb.	**4KRP9**


A.

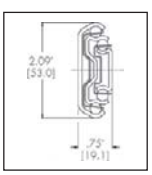

B.

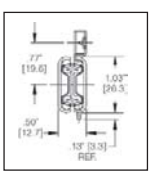





C.


D.







GA GRAINGER APPROVED

Unthreaded Pull Handles

Key	Mounting Hole Ctr. to Ctr.	Inner Mtg. Hole Ctr. to Ctr.	Vert. Mtg. Hole Ctr. to Ctr.	Projection	Grip Dia.	Screw Size	Item No.
Steel, Natural Finish							
A	8"	—	—	2 5/8"	5/8"	5/16"	**4KZY2**
A	10"	—	—	2 5/8"	5/8"	5/16"	**4KZY3**
A	12"	—	—	2 5/8"	5/8"	5/16"	**4KZY4**
A	14"	—	—	2 5/8"	5/8"	5/16"	**4KZY5**
Steel, Polished Chrome Finish							
B	12 1/8"	10 1/8"	—	2"	1/2"	1/4"	**4KZZ5**
B	22 3/4"	21 1/4"	—	2 5/8"	5/8"	5/16"	**4KZZ6**
B	40 3/4"	39 1/4"	—	2 5/8"	5/8"	5/16"	**4KZZ8**
Steel, Polished Zinc Finish							
C	3 21/64"	—	3/4"	1"	21/64"	#6 x 3/4"	**1VZX4**
C	—	—	—	—	—	#6 x 3/4"	**1XMR5**
D	4 1/8"	—	1 1/16"	1 1/4"	1/2"	#7 x 3/4"	**4PE15**
D	4 7/8"	—	7/8"	1 13/32"	3/4"	#8 x 5/8"	**4PE17**
D	5 1/2"	—	1"	1 13/32"	3/4"	#9 x 3/4"	**4PE19**
D	6 1/2"	—	1 3/8"	2 1/8"	1"	#12 x 1 1/4"	**4PE21**
F	4 11/64"	—	—	1 5/32"	1/2"	#6 x 3/4"	**4PE14**
G	5 3/4"	—	—	1 1/4"	1/4"	#10	**4LAE2**
G	11 1/8"	—	—	1 13/32"	1/8"	3/8"	**4LAE3**
H	6 39/64"	—	1 3/8"	2 3/8"	—	#10-18 x 1 1/2"	**4PE25**
H	7 1/8"	5 5/8"	3/8"	1 13/32"	5/16"	#9	**4LAE6**
I	6 3/10"	—	—	2 1/16"	1 1/8"	#12 x 1 1/2"	**4PE24**
I	6 5/16"	—	—	2 1/16"	—	#12 x 1 1/2"	**1WAE5**
I	8 9/16"	23/64"	1 5/32"	2 13/64"	—	1/4 x 1 1/4"	**1WAF4**
I	10"	15/16"	1 21/64"	2 1/64"	—	#10 x 3/4"	**1WAF6**
U	4 17/32"	—	2 3/8"	—	51/64"	10	**4LAP5**
Steel, Powder Coated Finish							
D	4 1/2"	—	1 1/16"	1 1/4"	1/2"	#7 x 3/4"	**4PE16**
D	4 3/4"	—	1"	1 13/32"	3/4"	#8 x 5/8"	**4PE18**
D	5 1/2"	—	1"	1 13/32"	3/4"	#9 x 3/4"	**4PE20**
D	6 1/2"	—	1 3/8"	2 1/8"	1"	#12 x 1 1/4"	**4PE22**
F	4 11/64"	—	—	1 5/32"	1/2"	#6 x 3/4"	**1VZZ9**
Steel, Solid White Finish							
D	4 5/8"	—	3/4"	1 11/32"	—	#6 x 3/4"	**1WAB9**
Steel, Dull Brass Finish							
D	4 27/32"	—	7/8"	1 13/32"	3/4"	#8 x 5/8"	**1WAB5**
D	5 1/2"	—	1"	1 13/32"	3/4"	#9 x 3/4"	**1WAD3**
F	4 11/64"	—	—	1 5/32"	1/2"	#6 x 3/4"	**1WAB1**
Steel, Galvanized Finish							
D	4 7/8"	—	7/8"	1 3/8"	—	#8 x 5/8"	**1WAC4**
D	5 1/2"	—	1"	1 15/32"	—	#8 x 1"	**1WAC8**
F	4 1/8"	—	—	4 1/8"	1/2"	#6 x 3/4"	**1WAA5**
I	6 3/16"	—	—	2 1/16"	—	#12 x 1 1/2"	**1WAD7**
I	6 1/2"	—	1 3/8"	2 1/2"	—	#12 x 1 1/2"	**1WAE9**
Rubber Coated Steel, Powder Coated Finish							
O	6 19/64"	—	—	2 3/64"	63/64"	M6 or #12	**4WRZ2**
O	9 27/32"	—	—	2 1/4"	63/64"	M6 or #12	**4WRZ3**
304 Stainless Steel, Natural Finish							
A	8"	—	—	2 5/8"	5/8"	5/16"	**4KZY6**
A	12"	—	—	2 5/8"	5/8"	5/16"	**4KZY8**

Key	Mounting Hole Ctr. to Ctr.	Inner Mtg. Hole Ctr. to Ctr.	Vert. Mtg. Hole Ctr. to Ctr.	Projection	Grip Dia.	Screw Size	Item No.
A	14"	—	—	2 5/8"	3/8"	5/16"	**4KZY9**
E	1 1/32"	4 19/32"	1 1/32"	2 1/4"	3/4"	#8	**4LAE1**
G	5 3/4"	—	—	1 1/4"	1/4"	1/4"	**4LAE4**
G	11 1/8"	—	—	1 15/32"	1/8"	3/8"	**4LAE5**
304 Stainless Steel, Polished Finish							
B	12 1/8"	10 1/8"	—	2"	1/2"	1/4"	**4KZZ9**
D	4 5/32"	—	1 1/16"	1 19/64"	9/16"	#8 x 3/4"	**4LAC4**
D	4 3/4"	—	6 1/64"	1 13/32"	3/4"	#8 x 5/8"	**4LAC5**
D	5 1/2"	—	1 5/16"	1 17/32"	3/4"	#9 x 3/4"	**4LAC6**
D	6 9/16"	—	1 11/32"	2 1/8"	1"	#12 x 1 1/4"	**4LAC7**
H	7 1/8"	5 5/8"	3/8"	1 13/32"	5/16"	1/4"	**4LAE7**
K	2 1/4"	—	—	5/8"	9/32"	#16 x 3"	**4WRL5**
K	2 27/32"	—	—	25/32"	5/16"	#16 x 3"	**4WRL6**
K	3 15/32"	—	—	63/64"	25/64"	#20 x 3 1/2"	**4WRK9**
L	4 11/64"	4 11/64"	61/64"	1 1/16"	15/32"	#20 x 3 1/2"	**4WRL1**
L	5 3/16"	5 3/16"	1 3/16"	1 19/64"	19/32"	#25 x 5"	**4WRL2**
316 Stainless Steel, Polished Finish							
M	6 5/64"	—	1 25/32"	1 31/32"	7/8"	M6 x #35	**4WRL3**
304 Stainless Steel, Satin Finish							
N	2 1/8"	—	—	1 7/64"	43/64"	#16 x 3"	**4WRY8**
N	4 1/64"	—	—	1 17/64"	3/4"	#20 x 3 1/2"	**4WRY4**
N	5 33/64"	—	—	1 15/32"	7/8"	#25 x 4"	**4WRY6**
304 Stainless Steel, Polished Finish							
N	2 1/8"	—	—	1 7/64"	43/64"	#16 x 3"	**4WRY7**
N	4 1/64"	—	—	1 17/64"	3/4"	#20 x 3 1/2"	**4WRY3**
N	5 33/64"	—	—	1 15/32"	7/8"	#25 x 4"	**4WRY5**
Aluminum, Matte Finish							
B	12 1/8"	10 1/8"	—	2"	1/2"	1/4"	**4KZZ4**
E	8 7/8"	6 1/2"	1"	2 3/8"	3/4"	#8	**4LAD7**
T	4"	—	—	1 5/16"	5/16"	8-32	**4KZG2**
Cast Iron, Tan Powder Coated Finish							
E	4 15/16"	—	7/8"	1 1/2"	3/8"	#12	**4LAD4**
Cast Brass, Polished Finish							
C	—	—	—	—	—	#6 x 3/4"	**4JH14**
D	4 15/16"	—	19/32"	1 1/16"	19/64"	#8	**4LAD1**
Zinc, Polished Chrome Finish							
J	7"	—	1"	1 25/32"	5/8"	1/4"	**4LAE8**
Thermoplastic, Black							
P	3 11/16"	—	—	1 27/64"	1/4"	M6 x 1/2"	**4LAE9**
P	4 39/64"	—	—	1 3/4"	9/32"	M8 x 1/2"	**4LAF1**
P	5 13/64"	—	—	1 49/64"	9/32"	M8 x 1/2"	**4LAF2**
P	7 3/64"	—	—	1 31/32"	5/16"	M8 x 1/2"	**4LAF3**
P	9 1/4"	—	—	2 1/8"	23/64"	M10 x 1/2"	**4LAF4**
Phenolic, Black							
P	4 1/4"	—	—	1 3/4"	3/8"	1/4"	**4LAF5**
Technopolymer, Flex Handle							
R	4 43/64"	—	4 43/64"	1 1/2"	21/64"	21/64"	**15E730**
Chemical-Resistant Wing Handle							
S	3 11/16"	—	—	1 1/4"	1/4"	21/64"	**15E733**



GA GRAINGER APPROVED

Folding Pull Handles with Mounting Plate

Key	Mounting Hole Center to Center	Vert. Mounting Hole Ctr. to Ctr.	Grip Dia.	Screw Size	Item No.
Unthreaded Through Holes					
Steel, Polished Zinc Finish					
A	1 1/2"	1 3/4"	5/16"	10	**4LAK6**
B	2"	1 1/4"	1/4"	#6 x 3/4"	**1WAF8**
B	2 3/4"	1 7/8"	3/8"	#10 x 3/4"	**4PE27**
B	3"	2"	3/8"	#10 x 1"	**4PE28**
B	3 3/4"	2 3/4"	3/8"	#12 x 1 1/4"	**1WAG1**
D	5 1/8"	1 3/16"	3/4"	10	**4LAL4**
E	5 5/8"	1 21/32"	3/4"	8	**4LAL5**
Steel, Black Finish					
A	1 3/16"	1 3/4"	5/16"	10	**4LAK7**
B	3 25/32"	2 7/8"	5/16"	10	**4LAK8**
D	6 1/2"	1 3/32"	17/32"	10	**4LAL6**

Key	Mounting Hole Center to Center	Vert. Mounting Hole Ctr. to Ctr.	Grip Dia.	Screw Size	Item No.
Steel, Polished Nickel Finish					
H	3 3/8"	2 7/8"	5/8"	1/4	**4LAN2**
I	3"	1 3/4"	1/4"	8	**4LAN4**
304 Stainless Steel, Natural Finish					
C	4 3/4"	2 3/4"	5/16"	10	**4LAK9**
300 Stainless Steel, Natural Finish					
C	4 3/4"	2 3/4"	9/16"	10	**4LAL2**
300 Stainless Steel, Polished Finish					
D	4 3/16"	1 1/8"	17/32"	10	**4LAL8**
Aluminum, Black Finish					
J	3"	1 1/4"	1/4"	6	**4LAN5**
Weld-On					
Steel, Natural Finish					
H	3 3/8"	2 7/8"	5/8"	—	**4LAN3**
H	—	—	3/8"	—	**4PE26**
304 Stainless Steel, Natural Finish					
F	3 1/2"	1 3/8"	1/4"	—	**4LAL9**
G	3 3/8"	1 3/4"	5/16"	—	**4LAN1**

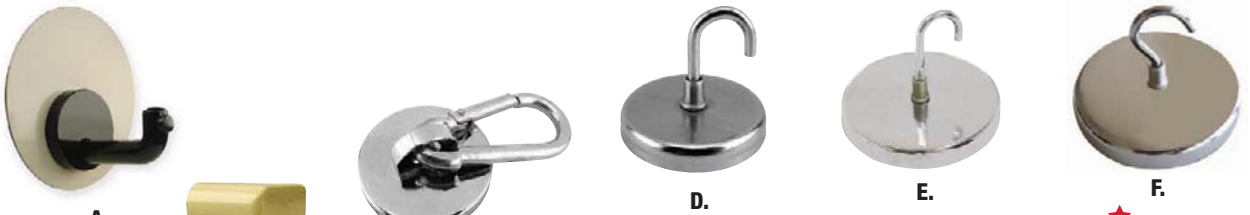
Key	Snap Opening	Eye Inside Dia.	Overall Length	Item No.
Zinc Die Cast, Nickel-Plated				
A	7/16"	1/2"	3 1/4"	4GGJ2
A	7/16"	5/8"	3 3/8"	4GGJ3
A	7/16"	3/4"	3 1/2"	4GGJ4
B	3/8"	—	4"	4FCG3
B	7/16"	—	4 5/8"	4FCG4
D	7/16"	1" Strap Width	3 3/8"	4FCN1
E	1/4"	3/8"	2 1/2"	4FCG6
E	5/16"	1/2"	3"	4FCG7
E	3/8"	5/8"	3 1/2"	4FCG8
E	3/8"	3/4"	3 1/2"	4FCG9
E	3/8"	7/8"	3 3/4"	4FCJ6
E	3/8"	1"	3 7/8"	4FCJ7
E	3/8"	7/8"	4 1/16"	4FCJ8
F	7/16"	3/4" Strap Width	3 1/4"	4GGL2
G	5/16"	1" Strap Width	3 1/8"	4FCL2
Steel, Chrome-Plated				
B	7/16"	3/8"	3 3/4"	1RCB1
E	7/16"	3/8"	3"	4PB86
Iron Casting, Zinc-Plated				
B	5/16"	—	4"	4FCJ3
B	7/16"	—	4 5/8"	4FCJ4
C	5/16"	5/16"	2 5/8"	4GGJ5
C	11/32"	3/8"	3 3/8"	4GGJ6
C	3/8"	9/16"	3 1/2"	4GGJ7
C	3/8"	9/16"	4"	4GGJ8
C	9/16"	7/8"	5 1/2"	4GGK1
C	9/16"	1"	6"	4GGJ9
Iron Casting, Nickel-Plated				
E	5/16"	5/8"	3 1/4"	4FCJ9
Bronze				
B	7/16"	—	4 3/4"	4FCJ5
C	3/8"	1/2"	3 1/2"	4GGK2
C	3/8"	9/16"	4"	4GGK3
E	1/4"	7/16"	3"	4FCH1
E	7/16"	3/8"	3"	4PB87
E	9/16"	1 1/4"	4 3/4"	4FCH2
H	3/8"	3/4"	3 5/8"	4GGL3
316 Stainless Steel				
B	7/16"	—	4"	4FCG5
E	1/4"	7/16"	2 1/2"	4GGK4
E	5/16"	1/2"	3 1/8"	4GGK5
E	3/8"	5/8"	3 7/16"	4GGK6
E	3/8"	3/4"	3 5/8"	4GGK7
E	1/2"	1 5/16"	4 3/4"	4GGK8
E	1/2"	1 7/16"	4 7/8"	4GGK9
Brass, Nickel-Plated				
E	1/8"	5/16"	1 7/8"	4FCL1



GA GRAINGER APPROVED

Slide Bolt Spring Snaps

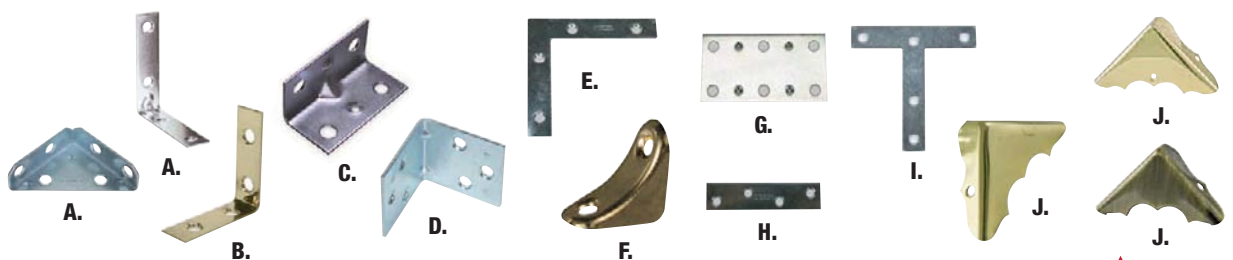
- Nonload-rated, not for lifting
- Models **E.** to **H.** have swivel eyes



GA GRAINGER APPROVED

Magnetic-Mount Hooks

Key	Hook Height	Hook Base Width	D	Hook Finish	Working Load Limit	Item No.
A	2 1/2"	2 1/2"	4 1/4"	Painted	15 lb.	4HDY5
B	1 27/64"	1 27/64"	1 23/32"	Unfinished	4 lb.	4HDZ5
C	1 1/4"	1 1/8"	1/4"	Chrome	45 lb.	3DXY2
D	1"	1 13/32"	1/4"	Chrome	40 lb.	3DXY3
E	1 3/8"	—	1/4"	Chrome	20 lb.	6YA67
F	1 1/32"	2"	1 1/32"	Polished	20 lb.	35HV66



GA GRAINGER APPROVED

Braces and Reinforcement Hardware

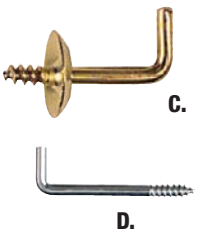
Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Inside Corner Braces					
Zinc					
A	3/4	1/2	1	1WDD4	1
A	1	1/2	1	4PB60	1
A	1 1/2	1/2	2	4PB61	1
A	2	5/8	2	4PB62	1
A	2	2 11/16	2	1WDD1	1
A	2 1/2	5/8	2	1WDD5	1
A	3	3/4	2	4PB63	1
A	3 1/2	3/4	2	1WDD6	1
A	3	3	2	1WDD2	1
A	4	7/8	2	4PB64	1
A	4	4	2	1WDD3	1
A	5	1	3	4PB65	1
A	6	1 3/32	3	1WDD7	1
A	8	1 3/32	3	4PB66	1
A	10	1 1/4	4	1WDD8	1
Galvanized					
A	1	1/2	1	1WDD9	2
A	1 1/2	1/2	2	1WDE1	2
A	2	5/8	1	1WDE2	2
A	2 1/2	19/32	2	1WDE3	2
A	3	23/32	2	1WDE4	2
A	4	7/8	2	1WDE5	2
A	5	1	3	1WDE6	1
A	6	1 3/32	3	1WDE7	1
A	8	1-2/25	3	1WDE8	1
A	10	1 1/4	4	1WDE9	1
Brass					
A	1	1/2	1	1WDF4	4
A	1 1/2	1/2	2	1WDF5	2
A	2	5/8	2	1WDF6	2
A	2 1/2	3/5	2	1WDF7	4
A	3	3/4	2	1WDF8	4

Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Solid Brass Inside Corner Braces					
B	1	1/2	1	1WDF9	4
Corner Braces					
Zinc					
C	1 1/2	3/4	2	1WDJ4	4
C	2 1/2	3/4	3	1WDJ5	4
C	3 1/2	3/4	3	1WDJ6	4
Double Corner Braces, Zinc					
D	1 1/2	1 1/2	3	1WDF1	1
D	2	1 1/2	3	4PE75	1
D	2 1/2	1 1/2	3	4PE76	1
Flat Corner Braces					
E	1 1/2	3/8	2	4PE71	1
E	2	3/8	2	4PE72	1
E	2 1/2	1/2	2	4PE73	1
E	3	31/64	2	4PE74	1
E	3 1/2	3/5	2	1WDK7	1
E	4	3/4	2	1WDK8	1
E	5	7/8	2	1WDK9	1
E	6	1	3	1WDL1	1
Galvanized					
E	3	1/2	2	1WDL3	4
E	4	5/8	2	1WDL4	4
Chair Braces					
Brass					
F	1 3/5	3/4	1	1WDL8	4
Zinc					
F	1 3/5	3/4	1	1WDL9	4
Antique Bronze					
F	1 3/5	3/4	1	1WDN1	4
Mounting Braces, Zinc					
G	2 1/2	1 3/5	6	1WDJ2	4
G	3 1/2	1 3/5	6	1WDJ3	4

Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Mending Plates					
Zinc					
H	2	5/8	2	4PB67	1
H	3	3/4	4	1WDG3	1
H	4	7/8	4	4PB68	1
H	5	1	4	1WDG4	1
H	6	1 1/8	4	1WDG5	1
H	8	1 1/4	4	1WDG6	1
H	10	1	6	1WDG7	1
H	12	1 1/8	6	1WDG8	1
Galvanized					
H	2	5/8	2	1WDG9	1
H	4	7/8	4	1WDH2	1
H	5	1	4	1WDH3	1
H	8	1 1/8	4	1WDH4	1
Brass					
H	4	27/32	4	1WDH9	4
Tee Plates, Zinc					
I	2 1/2	5/8	3 on Top, 2 on Stem	4PB69	1
I	3	3	3 on Top, 2 on Stem	1WDK4	1
I	4	7/8	3 on Top, 2 on Stem	1WDK5	1
I	5	5	3 on Top, 2 on Stem	1WDK6	1
Solid Brass Decorative Corner Braces					
J	1 1/4	1 1/4	1	1XMP3	4
J	1 1/10	1 1/10	1	1XMP4	4
J	1 1/4	1 1/4	1	1XMP5	4


A.


B.


C.

D.


E.


F.


G.

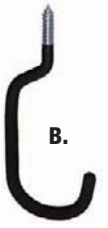

H.

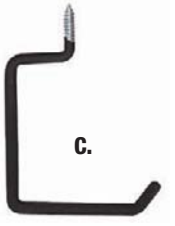
Light-Duty Screw-In Hooks

GA GRAINGER APPROVED

Key	Hook Opening	L	Thread Length	Finish	Item No.	Pkg. Qty.
Ceiling Hooks, Steel						
E	1/8"	5"	2"	Zinc Plated	**1WBN1**	20
E	19/32"	3 1/4"	1 15/64"	Zinc Plated	**1WBN5**	20
E	1"	1 1/2"	25/64"	Zinc Plated	**1WBN8**	20
E	1"	2"	5/8"	Zinc Plated	**1WBN7**	20
Cup Hooks						
Solid Brass						
A	1/8"	1/2"	1/5"	Solid Brass	**3ZVF7**	6
A	1/4"	5/8"	1/4"	Solid Brass	**3ZVF8**	5
A	1/4"	3/4"	3/7"	Solid Brass	**3ZVF9**	5
A	3/8"	7/8"	1/3"	Solid Brass	**3ZVG1**	5
A	2/5"	1"	2/5"	Solid Brass	**3ZVG3**	4
A	5/8"	1 1/4"	1/6"	Solid Brass	**3ZVG4**	2
A	2/3"	1 1/2"	4/9"	Solid Brass	**3ZVG6**	2
Steel						
A	1/4"	13/16"	1/2"	Brass	**1WBH3**	20
A	1/4"	1 3/64"	1/2"	Brass	**1WBH6**	20
A	1/4"	1 25/64"	1/2"	Brass	**1WBJ6**	20
A	1/3"	1 13/64"	1/2"	Brass	**1WBH9**	20
A	3/8"	1 5/16"	1/2"	Brass	**1WBJ3**	20
A	3/8"	1 7/8"	1/2"	Brass	**1WBJ9**	20
A	3/4"	2 5/32"	1/2"	Brass	**1WBK3**	20
Hook Bolt, Steel						
F	3/4"	10"	3 1/4"	Zinc Plated	**1RCE2**	1
Hook Bolts, Steel						
F	—	5"	3 1/4"	Zinc Plated	**3ZVH9**	1
Hook Bolts, Steel Wire						
F	—	—	—	Zinc	**4PB84**	1
Hook Bolts with 1 Hex Nut, Steel						
H	9/32"	13/16"	13/16"	Zinc Plated	**4HDV4**	10
H	11/32"	15/16"	15/16"	Zinc Plated	**4HDV5**	10
H	3/8"	1"	1"	Zinc Plated	**4HDV6**	10
H	1/2"	1 1/4"	1 1/8"	Zinc Plated	**4HDV7**	10
H	5/8"	1 1/2"	2 1/4"	Zinc Plated	**4HDV8**	10
H	5/8"	1 3/8"	3 3/4"	Zinc Plated	**4HDV9**	10
H	15/16"	5/8"	5/8"	Zinc Plated	**4HDV3**	10
Hook Bolts with Nuts, Steel						
F	—	7"	3/8"	Zinc Plated	**3ZVJ1**	1
Screw-In Hooks, Steel						
E	1/3"	4"	1 7/16"	Zinc Plated	**1WBN3**	20
E	1/2"	3 3/4"	1 15/64"	Zinc Plated	**1WBN4**	20
E	3/4"	2 1/2"	5/8"	Zinc Plated	**1WBN6**	20
E	1"	1 1/4"	25/64"	Zinc Plated	**1WBN9**	20
S Hooks, Steel						
G	25/64"	1 1/2"	—	Zinc Plated	**1WBP3**	20
G	2/3"	2 1/2"	—	Zinc Plated	**1WBP5**	20
Shoulder Hooks						
Solid Brass						
C	—	1/2"	1/16"	Solid Brass	**3ZVG7**	5
C	—	3/4"	1/4"	Solid Brass	**3ZVG8**	4
C	—	1"	3/8"	Solid Brass	**3ZVG9**	3
C	—	1 1/4"	2/5"	Solid Brass	**3ZVH1**	2
C	—	1 1/2"	1/2"	Solid Brass	**3ZVH2**	2
Steel						
C	—	53/64"	1/2"	Brass	**1WBK5**	20
C	—	1 3/16"	1/2"	Brass	**1WBK6**	20
C	—	1 13/16"	1/2"	Brass	**1WBK8**	20
C	—	1 27/64"	1/2"	Brass	**1WBK7**	20
C	—	2 5/32"	1/2"	Brass	**1WBK9**	20
Square Bend Hooks, Steel						
D	—	1 13/16"	5/9"	Zinc Plated	**3ZVH5**	6
D	—	1 3/16"	25/64"	Zinc Plated	**1WBL6**	20
D	—	1 1/2"	19/32"	Zinc Plated	**1WBL4**	20
D	—	2"	3/4"	Zinc Plated	**1WBL3**	20
D	—	2 3/8"	55/64"	Zinc Plated	**1WBL2**	20
D	—	1"	1/3"	Zinc Plated	**3ZVH3**	12
D	—	1 3/8"	4/9"	Zinc Plated	**3ZVH4**	10
Zinc Die-Cast Safety Cup Hooks						
B	—	7/8"	1/2"	Bright Brass	**3ZVG2**	4
B	—	1 1/4"	1/2"	Bright Brass	**3ZVG5**	2


A.


B.


C.


E.


I.

GA GRAINGER APPROVED

Vinyl-Coated Screw-In and Nail-In Hooks

Key	L	Thread Length	Load Capacity	Item No.	Pkg. Qty.
Black Vinyl-Coated, Load Rated					
A	3 5/8"	1 3/8"	50 lb.	**4ERX8**	1
B	7"	1 5/8"	40 lb.	**4ERX9**	1
C	7 1/4"	1 3/4"	50 lb.	**4ERY2**	1
D	8 3/4"	1 3/4"	50 lb.	**4ERY1**	1
Red Vinyl-Coated, Not Load Rated					
E	2"	1 3/8"	—	**4ERX7**	10
F	2 1/2"	7/8"	—	**4ERW8**	10
G	3 1/4"	1 3/8"	—	**4ERW9**	10
H	3"	1"	—	**4ERX1**	10
I	6 1/2"	1 1/4"	—	**4ERX3**	10


A.


F.


G.


H.

GA GRAINGER APPROVED SUGATSUNE

Coat and Garment Racks & Hooks

Key	No. of Hooks	Hook Base Width	W	W	Hook Height	H	Finish	Brand	Item No.
Wall-Mounted									
A	1	4"	4"	4"	4"	4 1/8"	Painted	GA	**1HEY8**
B	2	4"	4"	4"	5"	5"	Painted	GA	**1HEZ1**
C	3	10 1/2"	10 3/8"	10 3/8"	1 3/4"	1 3/4"	Painted	GA	**1HEZ3**
D	6	20"	—	—	5"	5"	Painted	GA	**1HEZ5**
E	5	30 3/8"	30 1/2"	30 1/2"	3 3/4"	3 3/4"	Painted	GA	**1HEZ7**
Board-Mounted									
F	3	10"	3"	3"	3"	3 1/8"	Polished Brass	GA	**1XNH7**
F	3	10"	3"	3"	3"	3 1/8"	Polished Chrome	GA	**1XNH8**
F	3	10"	3"	3"	3"	3 1/8"	Satin Nickel	GA	**1XNH9**
G	4	3"	3"	3"	1 1/2"	1 5/8"	Polished Brass	GA	**1XNJ1**
G	4	16 1/2"	3"	3"	3"	1 5/8"	Polished Chrome	GA	**1XNJ2**
G	4	16 1/2"	3"	3"	3"	1 5/8"	Satin Nickel	GA	**1XNJ3**
Hooks									
H	1	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/4"	Zinc Plated	GA	**1HGL4**
H	2	2 3/8"	2 3/8"	2 3/8"	1 3/4"	1 1/4"	Nickel Plated	GA	**1XNF5**
H	1	1 23/32"	—	—	1 27/32"	1 27/32"	Satin	Sugatsune	**4CRV2**
H	1	45/64"	—	—	2 3/4"	2 1/5"	Satin	Sugatsune	**4CRV3**
H	1	1"	1 1/8"	1 1/8"	2 1/4"	1 3/4"	Bright Brass	GA	**4JG64**
H	2	1 1/4"	1 1/8"	1 1/8"	2 1/4"	1 3/4"	Plain	GA	**4JG66**

Commercial LED TVs

TVs are clone capable, which means menu and channel settings can be copied out of 1 TV and placed in all other TVs in the facility.

HDTV Screen Size	HDTV Resolution	Brightness	HDTV SmartTV Compatible	VESA Pattern	H	W	D	Brand	Item No.
22"	720	300	No	—	14 1/8"	21"	1 7/8"	RCA	22P329
22"	720	300	No	100x100	12 13/32"	20"	2 7/64"	Lg Electronics	49AU95
28"	720	280	No	—	15 3/8"	25 1/8"	2 15/16"	RCA	36JH26
28"	720	300	No	200x200	15 39/64"	25 5/16"	2 5/16"	Lg Electronics	49AU96
32"	720	300	No	—	20 1/8"	31 1/4"	2 2/3"	RCA	22P331
32"	1080	300	No	200x200	17 13/64"	28 29/32"	2 13/64"	Lg Electronics	49AU97
43"	1080	300	No	200x200	22 39/64"	38 13/64"	2 13/64"	Lg Electronics	49AU98
43"	1080	300	No	400x200	22 13/16"	39 1/2"	3 1/2"	RCA	52CW97
43"	1080	—	Yes	200x200	22 39/64"	38 5/16"	2 13/64"	Lg Electronics	53RF58
43"	1080	300	No	200x200	22 49/64"	38 15/32"	3 7/64"	RCA	54UD46
49"	1080	300	No	200x200	25 1/2"	43 45/64"	3 13/16"	RCA	52CW98
55"	1080	350	No	200x200	29 3/4"	50 3/8"	1 7/8"	RCA	32RT40



No. 22P329



No. 49AU95

Healthcare LED TVs

Hospital-grade TVs have multiple protocol port that will work with most pillow speaker devices, regardless of the brand or remote type already installed.

HDTV Screen Size	HDTV Resolution	Brightness	HDTV SmartTV Compatible	VESA Pattern	H	W	D	Brand	Item No.
14"	1080	300 cd/m2	No	400x400	9 1/8"	13 1/2"	2 1/4"	RCA	45KY50
22"	720	500	No	—	14"	21"	1 57/64"	RCA	22P325
28"	720	280	No	—	18 13/32"	25 13/64"	2 57/64"	RCA	35MT17
28"	720	—	No	—	15 5/8"	25 11/32"	2 1/4"	Samsung	53VA48
32"	1080	—	Yes	400x400	17 13/64"	28 29/32"	2 13/64"	Lg Electronics	53RF59
32"	720	300	No	—	20 1/8"	31 1/4"	2 2/3"	RCA	22P327
32"	1080	300	Yes	100x100	16 7/8"	28 13/32"	2 9/16"	Samsung	444F69
40"	1080	300	No	200x200	20 63/64"	35 43/64"	2 9/16"	Samsung	444F70
43"	1080	205	No	200x200	22 39/64"	38 5/16"	2 13/64"	Lg Electronics	54TW82
43"	1080	300	No	200x200	22 49/64"	38 15/32"	3 7/64"	RCA	54UD47
43"	1080	300	No	200x200	23 63/64"	38 43/64"	2 9/16"	Samsung	444F71
49"	1080	214	No	300x300	25 1/2"	43 1/2"	2 13/64"	Lg Electronics	54TW86
55"	1080	280	No	400x400	28 23/32"	48 9/64"	2 45/64"	RCA	45MK55
65"	1080	240	No	300x300	35 13/32"	57 1/2"	11 39/64"	Lg Electronics	53CK08
65"	1080	350	No	300x300	35 13/32"	57 1/2"	11 39/64"	Lg Electronics	53CK09



No. 22P325



No. 53VA48



No. 53RF59

Hospitality LED TVs

LYNK™ Remote Enhanced Control for Hospitality (REACH) helps you control your property's operating costs by allowing you to make remote updates to all rooms from one remote location. Digital television (DTV) normally requires a manual, room-by-room update process that increases the cost of running your property. REACH saves you time by updating and adjusting DTVs using radio frequency signals. This server and remote control combination offers near real-time updating, provides a residential TV experience to guests, and lets you deliver information to guests automatically using a headline style scrolling ticker. Integrated solution uses existing infrastructure assets and eliminates the need for set-top boxes and other components.

HDTV Screen Size	HDTV Resolution	Brightness	HDTV SmartTV Compatible	VESA Pattern	H	W	D	Brand	Item No.
22"	1080	250	No	200x100	14 7/64"	21"	1 29/32"	RCA	49AU92
24"	720	—	No	75x75	13 3/4"	22 1/8"	2 5/8"	Samsung	52YK59
28"	720	280	No	200x100	15 13/32"	25 13/64"	2 29/32"	RCA	49AU93
28"	720	—	Yes	100x100	15 39/64"	25 5/16"	2 1/2"	Samsung	52YK60
32"	1080	195	No	200x200	17 5/16"	28 29/32"	2 13/64"	Lg Electronics	54TW78
32"	720	300	No	200x100	19 13/64"	29 1/64"	3 1/2"	RCA	35GU98
32"	720	—	No	200x200	17 13/32"	29 19/64"	2 45/64"	Samsung	443W28
40"	1080	—	No	200x200	20 29/32"	36 5/16"	2 5/16"	Samsung	52YK64
40"	1080	—	No	200x200	20 29/32"	36 5/16"	2 5/16"	Samsung	52YK66
40"	1080	200	No	200x200	20 13/16"	35 29/32"	2 13/64"	Lg Electronics	54TW79
40"	1080	225	No	200x200	20 13/16"	35 29/32"	2 13/64"	Lg Electronics	54TW80
40"	1080	225	No	200x200	20 13/16"	35 29/32"	2 13/64"	Lg Electronics	54TW81
43"	1080	300	No	400x200	22 13/16"	39 1/2"	3 13/16"	RCA	52PA25
43"	1080	—	No	200x200	22 39/64"	38 13/16"	2 5/16"	Samsung	52YK67
43"	1080	—	No	200x200	22 5/16"	38 13/16"	2 5/16"	Samsung	52YK68
43"	1080	—	No	200x200	22 39/64"	38 13/16"	2 5/16"	Samsung	52YK69
43"	1080	247	No	200x200	22 39/64"	38 5/16"	2 13/64"	Lg Electronics	54TW83
43"	1080	247	No	200x200	22 39/64"	38 5/16"	2 13/64"	Lg Electronics	54TW84
49"	1080	300 (cd/m2)	No	200x200	31 1/2"	48 1/2"	7"	RCA	45WP96
49"	1080	214	No	300x300	25 1/2"	43 1/2"	2 13/64"	Lg Electronics	54TW85
49"	1080	214	No	300x300	25 1/2"	43 1/2"	2 13/64"	Lg Electronics	54TW87
50"	1080	350	No	300x300	26 7/64"	44 29/32"	8 29/32"	Samsung	444F83
55"	1080	—	No	400x400	26 7/64"	44 29/32"	2 13/32"	Samsung	52YK74
55"	1080	243	No	300x300	28 1/2"	48 29/32"	2 13/64"	Lg Electronics	54TW90
55"	2160 (4K)	243	Yes	300x300	28 13/32"	48 13/16"	2"	Lg Electronics	54TW91
65"	1080	—	Yes	400x400	32 29/32"	57 9/16"	2 15/64"	Samsung	52YK78
65"	1080	278	No	300x300	33 13/32"	57 1/2"	2 5/16"	Lg Electronics	54TW92
65"	2160 (4K)	278	Yes	300x300	33 13/64"	57 1/2"	2 13/64"	Lg Electronics	54TW93
75"	2160 (4K)	285	Yes	600x400	40 13/64"	66 13/64"	2 13/64"	Lg Electronics	54TW94



No. 49AU92



No. 52YK59



No. 54TW79



No. 460J63



No. 460J66



No. 460J67

Outdoor TVs

peerless®

UltraView™ UHD models provide an all-season outdoor viewing experience. Come equipped with a high TNI panel, allowing sunlight readability without the risk of blackout. DC power ports provide power for small video equipment. Xtreme™ Outdoor Daylight Readable Display TV has a weatherproof design, providing protection against harsh outdoor elements. Soundbar system is easy to set-up and features Bluetooth® connectivity. Built-in amplifier delivers high-quality audio performance power.

HDTV Screen Size	HDTV Resolution	Brightness	HDTV SmartTV Compatible	VESA Pattern	H	W	D	Item No.
UltraView™ UHD Outdoor TV								
49"	2160 (4K)	500	No	400x200	30¾"	48 15/16"	8 23/64"	**460J63**
55"	2160 (4K)	500	No	400x300	34 21/64"	55 5/16"	8 23/64"	**460J64**
65"	2160 (4K)	500	No	400x400	39 1/16"	63 53/64"	8 23/64"	**460J65**
Xtreme™ Outdoor Daylight Readable Display								
49"	1080	700	No	600x400	30 3/16"	49 13/16"	10 7/8"	**460J66**

Type	Watt (RMS)	Sensitivity (dB)	Impedance (ohms)	Frequency Response	Overall H (in.)	Overall W (in.)	Item No.
Soundbar System							
Waterproof, Wireless	80	106	8	50 Hz to 20 kHz	3½	6¾	**460J67**



No. 30F328



No. 36C785



No. 6KJC4

CLEAN REMOTE®

RCA

BRIGHT STAR

TV Remotes

Offer optional screw for battery cover and require 2 AA batteries (not included). Clean Remotes are for use with all brands of hospitality, healthcare, and residential televisions. 1-touch setup, no programming codes needed, easy clean and spillproof design is clinically tested 99% cleaner than other remotes. Brightstar remotes are durable and preset for the leading TV brands and easily programmable for all others.

Description	For Use With	Type	Brand	Mfr. Model	Item No.
Healthcare Clean Remote Control for TVs with Cable Boxes	All Commercial and Residential Televisionss Plus Most Cable Boxes	Clean Room	Clean Remote	CR1R	**30F328**
Healthcare Clean Remote Control for TVs, Large Button	All Commercial and Residential Televisionss	Large Button	Clean Remote	CR2BB	**30F329**
Television Remote Control	All Commercial and Residential Televisionss Plus Most Cable Boxes	Spillproof	Clean Remote	CR3BCB	**35DW86**
Master Remote Control	Televisions 22P325, 22P326, 22P327, 22P328, 22P329, 22P330, 22P331, 22P332	IR	RCA	36C785	**36C785**
Guest Remote Control	Televisions 22P325, 22P326, 22P327, 22P328, 22P329, 22P330, 22P331, 22P332	IR	RCA	36C786	**36C786**
Learning Universal Remote	Televisions, (2) AAA Batteries	IR	RCA	38W766	**38W766**
Universal TV Remote	Any Brand Of Televisions	IR	RCA	DT-04	**5CFV0**
Universal TV Remote	All Television Brands, Preset for Samsung, LG, RCA, Philips, Magnavox, GE, Zenith, Hisense, Panasonic and Vizio	Hospitality and Healthcare	Brightstar	br100b	**6KJC4**
Universal Clean Remote Control, One Touch Set Up	All Commercial and Residential Televisions	TV Only, Spillproof	Clean Remote	CR1	**6KJC5**
Universal Clean Remote Control with Pay-Per-View Buttons	Any Brand Television and LodgeNet®, OnCommand®, Sonifi® Systems	Pay-Per-View, Universal	Clean Remote	CR2M	**6LUU4**



No. 5CFV2



No. 5CFV7

Wall Mounts and Cables

RCA

Wall Mounts - Heavy-duty commercial-grade LCD wall mounts provide safety and security by requiring tool/bolt removal to take the TV off the wall.

Healthcare TV Jumper Cables - Connect J Model Commercial TVs to existing wall plates.

Description	For Use With	VESA Pattern	H	W	D	Load Cap. (lb.)	Mfr. Model	Item No.
Wall Mounts								
Flat Panel Tilt Mount with Pivot	22", 26", 32" and 42" TV	75x75/100x100/200x200	9"	11½"	3 13/16"	55	CTM-0200	**5CFV2**
Flat Panel Tilt Mount, Single Arm	22", 26", 32" and 42" TV	75x75/100x100/200x100/200x200	8 19/32"	8 19/32"	9 19/64"	55	CTM-1200	**5CFV3**
Flat Panel Tilt Mount, Double Arm	22", 26", 32" and 42" TV	50x50/75x75/100x100/200x200	12 3/32"	12"	3½"	55	CTM2200	**5CFV4**
Flat Panel Tilt Mount	22", 28", 32" TV	50x50/75x75/100x100/200x200	5 3/32"	5 51/64"	2 3/32"	50	JM1000	**5CFV5**
Flat Panel Tilt Mount	22", 26", 32" and 42" TV	50x50/75x75/100x100/200x200	8 51/64"	8 29/32"	2¾"	80	JM2000	**5CFV6**
Healthcare TV Jumper Cable								
¼ To 6 Pin	RCA J Model Televisions		—	—	36		RCAJ-36-146	**5CFV7**
¼ To 5 Pin	RCA J Model Televisions		—	—	36		RCAJ-36-145	**5CFV8**
¼ To ¼	RCA J Model Televisions		—	—	36		RCAJ-36-1414	**5CFV9**

peerless® ★GA GRAINGER APPROVED STANLEY VMP VIDEO MOUNT PRODUCTS

Mounts only; AV equipment not included

Video Display, TV Mounts, and Stands

Video mounting systems are a space-saving alternative to stands, shelving, and consoles. Include mounting hardware. Paramount series models are designed for versatility and easy installation on a wide variety of video display applications. SmartMount series models have premium-grade flat-panel mounts with flat, tilt, pivot, and articulating options for commercial applications. High-end video displays and labor-saving features for the professional installer.

For Use With	Trade Name	VESA Pattern	Tilting Angle (Deg.)	Max. Extension	Load Cap. (lb.)	Brand	Mfr. Model	Item No.
Wall Mount, Flat								
10" to 29" Screens	SmartMount	75x75/100x100	—	—	80	Peerless	SF630	**3XVY9**
22" to 40" Screens	SmartMount	75x75/100x100/200x100/200x200	—	—	115	Peerless	SF632	**3XVZ1**
37" to 85" Screens	—	—	—	—	200	GA	33J841	**33J841**
39" to 75" Screens	SmartMount	600x400	—	—	150	Peerless	PF650	**3YLZ6**
TV Mounts	TV Wall Mount	—	—	0	110	STANLEY	TLS-210S	**45PF72**
Wall Mount, Tilt								
10" to 30" Screens	—	—	7	—	60	GA	33J830	**33J830**
18C872 Screen	VMP	—	—	—	—	Video Mount Products	DS-BP	**18C874**
32" to 40" Screens	SmartMount	400x300	—	+15/-5°	150	Peerless	PT640	**3YMA1**
32" to 50" Screens	SmartMount	458x405	—	+15/-5°	150	Peerless	ST640	**1HA95**
39" to 75" Screens	SmartMount	600x400	—	+15/-5°	150	Peerless	PT650	**3YMA2**
39" to 75" Screen TV	SmartMount	600x400	15	2⅝ to 5¾"	175	Peerless	ST650P	**38X964**
39" to 80" Screens	SmartMount	800x400	—	+15/-5°	200	Peerless	ST660	**1HA97**
42" to 90" Screens	—	—	-5 to +15 (lockable 5 degree increments)	—	180	Video Mount Products	FP-LDSB	**18C872**
TV Mounts	TV Wall Mount	—	10	0	65	STANLEY	TMS-DS1113T	**45PF69**
Wall Mount, Articulating								
10" to 29" Screens	SmartMount	75x75/100x100	±90	±35"	25	Peerless	PA730	**3YMA6**
10" to 32" Screens	—	—	15	10½"	45	GA	33J828	**33J828**
22" to 40" Screens	SmartMount	100x100/200x100/200x200	180	+15/-5°	80	Peerless	SA740P	**2ZA84**
22" to 40" Screens	SmartMount	100x100/200x100/200x200	±90	+15/-5°	80	Peerless	PA740	**3YMA7**
46" to 90" Screens	SmartMount	200x100 to 800x400	27½	+15/-5°	150	Peerless	SA771PU	**3XWA5**
Ceiling Mount								
13" to 29" Screens	SmartMount	75x75/100x100	360	+20/-5°	40	Peerless	LCC36-C	**3XWA8**
13" to 29" Screens	SmartMount	75x75/100x100	360	+20/-5°	40	Peerless	LCC18C	**2ZA92**
Flat Panel TV Stands								
32" to 75" Screens	SmartMount	200x200 to 600x400	-2/0/+6	+5/-2"	—	Peerless	SR560M	**3XWC6**
Desktop Mount								
10" to 30" Screens	—	—	15	10½"	35	GA	33J832	**33J832**
TV Enclosure								
22" to 32" Screens	—	100x100/200x100/200x200	+15/-5	4²⁵⁄₆₄"	125	Peerless	K62232-S-GR01	**45AK73**
42" to 55" Screens	—	400x400	+15/-5	5¹³⁄₃₂"	150	Peerless	K64255-S-GR01	**45AK72**


No. 33J830


No. 18C872


No. 3YMA7


No. 3XWA5


No. 3XWA8


No. 33J832

GA GRAINGER APPROVED peerless® STANLEY VMP VIDEO MOUNT PRODUCTS

Mounts only; AV equipment not included

Video Component Mounts and Shelving

Description	For Use With	Color	Load Cap. (lb.)	Swivel Angle (°)	Brand	Mfr. Model	Item No.
Projector Mounts and Enclosures							
LCD TV Mount	All Projectors	Black	40	360	GA	33J827	**33J827**
Ceiling Projector Mount	Projectors up to 50 lb.	Black	50	360	Peerless	PRG-UNV	**3XWC2**
Projector Mount	Multimedia Projectors	Black	25	360	Peerless	PRS-UNV	**38X965**
Speaker Mounts							
Wall and Ceiling Speaker Mount	Mini, Satellite, and Bookshelf Style Speakers	Black	20	120	Peerless	SPK811	**1HB10**
Wall/Ceiling Speaker Mount	TV Mounts	Black	8	0	STANLEY	ASB-25	**45PF80**
Equipment Shelves							
Component Shelf	A/V Equipment	Black	100	0	Peerless	PS200	**38X963**
Digital Signage Computer/Component Holder							
Computer/Component Holder	Digital Signage Holder	Black	25	—	Video Mount Products	DS-CH	**18C873**
Equipment Rack and Shelves							
Flat Panel Mount	Flat Panel Monitor	Black	50	—	Video Mount Products	ER-LCD1017	**18C871**
19" AV Equipment Rack, 48"H	19" Rack Equipment & Accessories	Black	400	—	Video Mount Products	ER-148	**18C875**
8 Receiver Rack Shelf	19" Equipment Racks	Black	50	—	Video Mount Products	ER-8RSA	**18C876**
Vented Rack Shelf, 2-Space	19" Equipment Racks	Black	50	—	Video Mount Products	ER-S2UV	**18C887**
Vented Rack Shelf, 1-Space	19" Equipment Racks	Black	50	—	Video Mount Products	ER-S1UV	**18C888**
Suspended Ceiling Mount Accessories							
Suspended Ceiling Plate Includes Support Cables and Hardware	Projector Mount	White	60	0	Peerless	CMJ500R1	**38X962**
Wall Mount Equipment Shelf							
Wall Mount Equipment Shelf	TV Mounts	Black	17	0	STANLEY	AS-100	**45PF78**
Wall Mount Equipment Shelf	TV Mounts	Black	13	0	STANLEY	ADS-200	**45PF79**
Straps							
Universal TV Strap	TV Mounts	Chrome	0	0	STANLEY	ASR-001	**45PF82**
Safety Straps	TV Mounts	Chrome	0	0	STANLEY	ASR-N02	**45PF83**


No. 33J827


No. 3XWC2


No. 18C873


No. 18C875


No. 18C887


No. 38X962



No. 2HNA9



No. 23Y699



No. 29WJ53



No. 29WJ56



No. 22NL44

Motorola Two Way Business Radios

All radios include battery, belt clip, single-unit drop-in charging tray, and transformer. For additional accessories, see page 2031.

BUSINESS DIGITAL, DTR SERIES
- 900 MHz digital ISM band; require no license to operate
- Durable, digital radios provide clear audio quality
- Provide group or 1-to-1 private communication
- No. 10K212 provides private group communication
- Text messaging capable
- Programming Cable No. 2EUH6 required to access programmable features, sold separately on page 2031

BUSINESS, RDX SERIES
- FCC License required
- Narrowband compliant
- Durable analog radios provide clear audio quality and expanded frequency capability
- Operate on 89 UHF and 27 VHF business frequencies; up to 213 codes to ensure clear signal
- Allow for programmable frequencies to be added later; high-power models can be programmed to function with repeaters
- Programming Cable No. 29WJ59 required to program radio on licensed frequencies and to access programmable features, sold separately on page 2031

BUSINESS, RM SERIES
- FCC License required
- 12.5 kHz narrowband
- Designate 16 prerecorded channels
- Up to 20 floors communication coverage

BUSINESS, RMM SERIES
- Operate on license-free VHF MURS frequencies
- Programming Cable No. 29WJ59 required to access programmable features, sold separately on page 2031

LIGHT-DUTY, CLS SERIES
- FCC License required
- Narrowband compliant
- Operate on 56 UHF business frequencies; up to 121 codes to ensure clear signal
- Lightweight and compact

Band Type	Output Watts	Inside Range (sq. ft.)	No. of Channels	Frequency	Selectable Frequencies	Analog	Digital Codes	Battery Type	Battery Life	Display Type	Std.	IP Rating	Programmable/ Repeater Capable	Mfr. Model	Item No.
Business Digital, DTR Series															
ISM	1	300,000	25	900 MHz	—	—	—	Li-Ion	14.5 hr.	LCD	MIL-STD-810C, D, E, F	IP54	No	DTR410	**2HNA9**
ISM	1	350,000	30	900 MHz	—	—	—	Li-Ion	14.5 hr.	Backlit LCD	MIL-STD-810C, D, E, F	IP54	No	DTTR550	**10K212**
Business, RDX Series															
UHF	4	350,000	10	438 to 470 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr.	No Display	MIL-STD-810C, D, E, F	IP55	Yes	RDU4100	**23Y699**
UHF	4	350,000	16	438 to 470 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr.	LCD	MIL-STD-810C, D, E, F	IP55	Yes	RDU4160D	**23Y701**
VHF	5	300,000	10	146 to 174 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr.	No Display	MIL-STD-810C, D, E, F	IP55	Yes	RDV5100	**23Y698**
Business, RM Series															
UHF	2	250,000	4	450 to 470 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr.	No Display	MIL-STD-810C, D, E, F, G	IP54/55	No	RMU2040	**29WJ53**
UHF	2	250,000	8	450 to 470 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr.	No Display	MIL-STD-810C, D, E, F, G	IP54/55	No	RMU2080	**29WJ54**
UHF	2	250,000	8	450 to 470 MHz	99	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr.	LCD	MIL-STD-810C, D, E, F, G	IP54/55	No	RMU2080D	**29WJ55**
Business, RMM Series															
VHF	2	220,000	8	150 to 160 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr.	No Display	MIL-STD-810C, D, E, F, G	IP54/55	No	RMV2080	**29WJ56**
VHF	2	220,000	5	151 to 155 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr.	No Display	MIL-STD-810C, D, E, F, G	IP54/55	No	RMM2050	**29WJ57**
Light-Duty, CLS Series															
UHF	1	200,000	1	450 to 470 MHz	56	38	83	Li-Ion	12.6 hr.	LCD	MIL-STD-810F	—	No	CLS1110	**22NL44**
UHF	1	200,000	4	450 to 470 MHz	56	38	83	Li-Ion	12.6 hr.	LCD	MIL-STD-810F	—	No	CLS1410	**22NL45**



No. 15X821

Motorola CLP/Business Series Two Way Radios

- FCC License required
- Narrowband compliant
- 1W UHF
- Up to 6 channels
- Operate on 99 UHF business frequencies
- Up to 219 codes to ensure clear signal
- Multiple wear options
- Li-ion batteries provide up to 14 hr. of service
- Repeater capable
- Programming Cable No. 29WJ59 required to program radio on licensed frequencies and to access programmable features, sold separately on page 2031

Designed to provide reliable communications in demanding retail, healthcare, and hospitality environments. Feature small, lightweight form factor; simple, push-to-talk operation; embedded antenna; and small earpieces. Smart Status Glow uses color to indicate active channel; radio transmit; and receive, scan, and battery status. Can be programmed to function with repeater to increase talk range and eliminate dead spots. Radios include standard-capacity battery, earpiece, holster, and single-unit drop-in charger. No. 45L124 includes Bluetooth®.



No. 15X824 Single-Unit Charger

Band Type	Output Watts	Range (sq. ft.)	Channels	Frequency (MHz)	Selectable Frequencies	Analog Codes	Digital Codes	Battery Type	Display	Military Spec 810	Mfr. Model	Item No.
CLP/Business Series Radios												
UHF	1	100,000	4	450-470	99	39+ 6 Programmable	84 Standard, 84 Inverted, 6 Custom	Li-Ion	No	C,D,E,& F	CLP1040	**15X821**
UHF	1	100,000	1	450-470	99	39+ 6 Programmable	84 Standard, 84 Inverted, 6 Custom	Li-Ion	No	C,D,E,& F	CLP1010	**15X820**
UHF	1	100,000	6	450 to 470	99	39+ 6 Programmable	84 Standard, 84 Inverted, 6 Custom	Li-Ion	No	C,D,E,F & G	CLP1060 W/ BLUETOOTH	**45L124**

Description	Mfr. Model	Item No.
Audio Accessories		
Earpiece, Nonadjustable with PTT	HKLN4455F	**10K218**
Batteries and Covers		
High-Capacity Battery	HKNN4013A	**5ECZ9**
High-Capacity Battery Door Kit	HKLN4440B	**15X822**
Standard-Capacity Battery	HKNN4014B	**5ECZ8**

Description	Mfr. Model	Item No.
Chargers		
Multi Unit Charger	HKPN4007D	**15X823**
Single Unit Charger	HKPN4008B	**15X824**
Carry Accessories		
Holster	HKLN4438B	**15X825**
Magnetic Holster	HKLN4433A	**10K217**

Description	Mfr. Model	Item No.
Programming Accessories		
CPS Programming Cable	HKKN4025A	**5EDA6**
Radio-to-Radio Cloning Cable	HKKN4026A	**5EDA7**



No. 45EC20

MOTOROLA SOLUTIONS

Digital Two Way Business Radios

- Narrowband compliant
- 900 MHz ISM FHSS
- Li-ion battery provides up to 14 hr. of service
- 4.2 oz. with battery

1W radios feature programming software that provides easy configuration of features, frequencies, and codes.

Designed with a cloning feature that easily transfers information to additional radios. Polycarbonate housing contains built-in antimicrobial properties that inhibit the growth of bacteria and mold on radio surfaces. No. 45EC20 has 2 channels, and No. 45EC21 has 6 channels.

No. of Channels	Band Type	Frequency	Battery Type	Display Type	Mfr. Model	Item No.
2	ISM	900 MHz	Li-Ion	No Display	DLR1020	**45EC20**
6					DLR1060	**45EC21**



No. 46AX76

MIDLAND

Biztalk Radios

Designed for the rigors of the jobsite, this system fits the needs for any size business, with an emphasis on simplicity and cost effectiveness. Easy-to-program and ready-to-use, right out of the box.

Band Type	Output Watts	Battery Type	Mfr. Model	Item No.
Portable Two Way Radio				
UHF	2	Li-Ion	BR200	**46AX76**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Cable	Mfr. No. BRB20	BA1	**46AX77**
Over-the-Ear Headset	Mfr. No. BR200	BA2	**46AX78**
Tactical Headset	Mfr. No. BR200	BA3	**46AX79**
Microphone - Shoulder	Mfr. No. BR200	BA4	**46AX80**
6 Hr. 1800 mAh battery Battery Pack	Mfr. No. BR200	BRB200	**46AX81**
Multi Unit Charger	Mfr. No. BR200	BGC200	**46AX82**

MOTOROLA SOLUTIONS

Motorola Commercial Portable Two Way Radios

- Li-ion battery type
- IP54 rating

Powerful, versatile radios combine reliable 2-way radio functionality. Push-to-talk button delivers crisp, clear audio, penetrating even in extremely noisy environments. Essential feature includes the ability to interrupt a transmission to prioritize emergency communications and selectable frequencies. Deliver increased coverage while maintaining a 40% longer battery life. Nos. 54HC92 to 54HC95 feature radio check, remote monitor, scan/dual priority, timer, and voice announcement.



No. 45CA56



No. 45CA72



No. 54HC93

Band Type	Output Watts	Inside Range (sq. ft.)	No. of Channels	Frequency	Analog Codes	Digital Codes	Mfr. Model	Item No.
Portable Two Way Radio								
UHF	4 W	400,000	16	403 to 470 MHz	Programmable	Programmable	CP200D AAH01QDC9JA2	**45CA56**
UHF	4 W	350,000	16	403 to 470 MHz	Programmable	Programmable	CP200D AAH01QDC9JC2	**45CA72**
VHF	3 W	400,000	2	136 to 174 MHz	38	121	SL300 AAH88JCC9JA2	**54HC92**
VHF	3 W	400,000	99	136 to 174 MHz	38	121	SL300 AAH88JCP9JA2	**54HC93**
UHF	3 W	400,000	2	403 to 470 MHz	38	121	SL300 AAH88QCC9JA2	**54HC94**
UHF	3 W	400,000	99	403 to 470 MHz	38	121	SL300 AAH88QCPC9JA2	**54HC95**



No. 56CY53

Go Beyond Normal Limits...
RITRON® WIRELESS SOLUTIONS

Handheld Portable Two Way Radios

Ideal for basic job site applications to in-plant repeater systems and selective signaling applications. Certified to Mil-Standard 810F and IP65 rating. Radios Include audio accessory jack, 1800mAH Li-Ion battery, flex antenna, spring-action belt clip, 3-hour charging stand, 110-220VAC adaptor, and 1 year warranty. For audio accessories, see Grainger.com

No. of Channels	Band Type	Selectable Frequencies	License Required	Display Type	Mfr. Model	Item No.
20	VHF MURS	5	No	LCD	NT-152M	**56CY54**
255	VHF	29	Yes		NT-174	**56CY52**
	UHF	107			NT470	**56CY53**



No. 463W11

No. 463W31

MOTOROLA SOLUTIONS

Business Portable Two Way Radios

- FCC License required
- Narrowband compliant
- 5W VHF/UHF
- Encryption, priority scan
- 500mW audio output

Programmable 12.5/20/25 kHz channel spacing. High contrast display. Have multiple soft keys for features such as encryption mode, which scrambles the audio signal to prevent eavesdropping. Priority Scan mode allows listening to multiple channels at once with precedence on the main channel. Units come with 2-tone encode and decode, which allows sending/receiving of 2-tone pages. Battery life is 16 hr. on Digital 530 and 450 series. Include programming, battery, belt clip, whip antenna, and side cover.

No. of Channels	Band Type	Frequency	Display Type	Inside Range (sq. ft.)	Mfr. Model	Item No.
VERTEX STANDARD EVX-S24						
256	UHF	403 to 470 MHz	LCD	400,000	EVX-S24-G6-3 BLACK	**463W20**
256	UHF	403 to 470 MHz	LCD	400,000	EVX-S24-G6-3 YELLOW	**463W21**
VERTEX STANDARD EVX-261						
16	VHF	136 to 174 MHz	No Display	400,000	EVX-261-D0-5	**463W17**
16	UHF	450 to 512 MHz	No Display	400,000	EVX-261-G7-5	**463W18**
16	UHF	403 to 470 MHz	No Display	400,000	EVX-261-G6-5	**463W19**
VERTEX STANDARD VX-261						
16	VHF	136 to 174 MHz	No Display	300,000	VX-261-D0-5	**463W11**
16	UHF	450 to 512 MHz	No Display	375,000	VX-261-G7-5	**463W12**
16	UHF	403 to 470 MHz	No Display	375,000	VX-261-G6-5	**463W13**
VERTEX STANDARD VX-264						
16	VHF	136 to 174 MHz	LCD	300,000	VX-264-D0-5	**463W14**
16	UHF	450 to 512 MHz	LCD	375,000	VX-264-G7-5	**463W15**
16	UHF	403 to 470 MHz	LCD	375,000	VX-264-G6-5	**463W16**
VERTEX STANDARD VX-451						
32	VHF	136 to 174 MHz	No Display	300,000	VX-451-D0-5	**463W22**
32	UHF	403 to 470 MHz	No Display	375,000	VX-451-G6-5	**463W23**
32	UHF	450 to 512 MHz	No Display	375,000	VX-451-G7-5	**463W24**
32	VHF	136 to 174 MHz	No Display	300,000	VX-451-D0-5-IS	**463W31**
32	UHF	403 to 470 MHz	No Display	375,000	VX-451-G6-5-IS	**463W32**
32	UHF	450 to 512 MHz	No Display	375,000	VX-451-G7-5-IS	**463W33**
VERTEX STANDARD VX-454						
512	VHF	136 to 174 MHz	LED	300,000	VX-454-D0-5	**463W25**
512	UHF	403 to 470 MHz	LED	375,000	VX-454-G6-5	**463W26**
512	UHF	450 to 512 MHz	LED	375,000	VX-454-G7-5	**463W27**
512	VHF	136 to 174 MHz	LED	300,000	VX-454-D0-5-IS	**463W34**
512	UHF	403 to 470 MHz	LED	375,000	VX-454-G6-5-IS	**463W35**
512	UHF	450 to 512 MHz	LED	375,000	VX-454-G7-5-IS	**463W36**
VERTEX STANDARD VX-459						
512	VHF	136 to 174 MHz	LED	300,000	VX-459-D0-5	**463W28**
512	UHF	403 to 470 MHz	LED	375,000	VX-459-G6-5	**463W29**
512	UHF	450 to 512 MHz	LED	375,000	VX-459-G7-5	**463W30**
512	VHF	136 to 174 MHz	LED	300,000	VX-459-D0-5-IS	**463W37**
512	UHF	403 to 470 MHz	LED	375,000	VX-459-G6-5-IS	**463W38**
512	UHF	450 to 512 MHz	LED	375,000	VX-459-G7-5-IS	**463W39**
VERTEX STANDARD EVX-530						
32	UHF	403 to 470 MHz	No Display	—	EVX531G65	**45CP59**
512	UHF	450 to 512 MHz	LED	—	EVX534G75ED	**45LW49**
512	UHF	450 to 512 MHz	LED	—	EVX539G75ED	**45LW52**



No. 463W40

MOTOROLA SOLUTIONS

VHF/UHF Mobile Two Way Radios

These radios have multi-configurations for dual band operation. 250-channel capacity, providing greater reach and has ability to program up to 20 memory groups. Built-in emergency alert with panic button ensures safety. ARTS™ (Auto-Range Transpond System) informs you when another ARTS™-equipped radio is within communication range. If out of range, the radio senses no signal and beeps to alert. Horn alert capability enables base station to issue a 2-Tone, 5-Tone or DTMF signal remotely to activate the car's horn to go off. Feature 8-character alphanumeric display, radio-to-radio cloning along with scanning for priority, dual watch, and group.

No. of Channels	Band Type	Frequency	Output Watts	Mfr. Model	Item No.
VERTEX STANDARD VX-2100/2200					
8	VHF	137 to 174 MHz	25	VX-2100-D0-25	**463W40**
8	VHF	137 to 174 MHz	50	VX-2100-D0-50	**463W41**
8	UHF	400 to 470 MHz	25	VX-2100-G6-25	**463W42**
8	UHF	400 to 470 MHz	45	VX-2100-G6-45	**463W43**
8	UHF	450 to 512 MHz	25	VX-2100-G7-25	**463W44**
8	UHF	450 to 512 MHz	45	VX-2100-G7-45	**463W45**
128	VHF	137 to 174 MHz	25	VX-2200-D0-25	**463W46**
128	VHF	137 to 174 MHz	50	VX-2200-D0-50	**463W47**
128	UHF	400 to 470 MHz	25	VX-2200-G6-25	**463W48**
128	UHF	400 to 470 MHz	45	VX-2200-G6-45	**463W49**
128	UHF	450 to 512 MHz	25	VX-2200-G7-25	**463W50**
128	UHF	450 to 512 MHz	45	VX-2200-G7-45	**463W51**



No. 20PF27

No. 53VU66

No. 35MC38

ProTalk® Two Way Business Radios

KENWOOD

- Narrowband compliant

Include long-lasting Lithium-ion battery, belt clip, antenna, and drop-in fast-rate charger/power supply. FCC license required. 64 to 99 frequencies are preprogrammed and easy to program with wireless cloning (no cables needed). 5W models are repeater capable.

Output Watts	Frequency	No. of Channels	Range (sq. ft.)	Battery Type	Display	Mfr. Model	Item No.
1.5	451 to 470 MHz	4	220,000	1430mAh Li-Ion	No	PKT-23K	**20PF27**
1.5	450 to 470 MHz	6	225,000	Li-Ion	No	TK-3230DX	**53VU66**
2	151 to 159 MHz	4	220,000	2000mAh Li-Ion	No	TK-2400V4P	**43Y985**
2	151 to 159 MHz	16	220,000	2000mAh Li-Ion	No	TK-2400V16P	**43Y986**
2	451 to 470 MHz	4	250,000	2000mAh Li-Ion	No	TK-3400U4P	**43Y987**
2	451 to 470 MHz	16	250,000	2000mAh Li-Ion	No	TK-3400U16P	**43Y988**
5	151 to 159 MHz	16	300,000	2000mAh Li-Ion	No	TK-2402V16P	**43Y990**
5	151 to 159 MHz	16	375,000	2000mAh Li-Ion	No	NX-240V16P	**35MC37**
5	451 to 470 MHz	16	300,000	2000mAh Li-Ion	No	NX-340U16P	**35MC38**
5	451 to 470 MHz	16	390,000	2000mAh Li-Ion	No	TK-3402U16P	**43Y989**

Mobile Two Way General, Aviation and Marine Radios

These two way radios are rugged and durable with specific models for aviation, marine and commercial users.


No. 481Z48


No. 481Z51

STANDARD HORIZON
ICOM

Description	No. of Channels	Frequency	Battery Life	Output Watts	Battery Type	Band Type	Mfr. Model	Brand	Item No.
Aviation									
Mobile- Panel Mount	20	118 to 136.98 MHz	—	8	—	VHF	A220	Icom	**45MK40**
Mobile - Bracket Mount	20	118 to 136.98 MHz	—	8	—	VHF	A220M	Icom	**45MK41**
Mobile - Desktop	20	118 to 136.98 MHz	—	8	—	VHF	A220B	Icom	**45MK42**
Portable - Handheld	200	TX 118.000 to 136.975 MHz, RX 108.000 to 136.975 MHz	20 hr.	5	Li-Ion	VHF	A14	Icom	**40XA23**
Portable - Handheld	200	TX 118.000 to 136.975 MHz, RX 108.000 to 136.975 MHz	—	5	NiMH	VHF	A24 01	Icom	**40XA33**
General									
Portable - Handheld	16	136 to 174 MHz	14 hr.	5	Li-Ion	VHF	F1000 86	Icom	**40XA08**
Portable - Handheld	16	450 to 512MHz	14 hr.	4	Li-Ion	UHF	F2000 74	Icom	**40XA09**
Portable - Handheld	16	136 to 174 MHz	20 hr.	5	Li-Ion	VHF	F3001 03 RC	Icom	**40XA11**
Portable - Handheld	16	450 to 512 MHz	20 hr.	4	Li-Ion	UHF	F4001 43 RC	Icom	**40XA12**
Portable - Handheld	128	400 to 470 MHz	14 hr.	4	Li-Ion	UHF	F2000S 76	Icom	**40XA27**
Portable - Handheld	128	136 to 174MHz	14 hr.	5	Li-Ion	VHF	F1000T 94	Icom	**40XA30**
Portable - Handheld	128	450 to 512 MHz	14 hr.	4	NiMH	UHF	F2000T 78	Icom	**40XA31**
Marine									
Portable - Handheld	7	156.300 to 156.875 MHz	—	2	NiCad	VHF	GM1600 21K	Icom	**40XA51**
Floating Ultracompact with Strobe - Handheld	10	156.025 to 157.425 MHz	10 hr.	5	Li-Ion	VHF	HX300	Standard Horizon	**18F511**
Submersible with LMR Channels - Handheld	40	156 to 163.275 MHz (Marine Band); 137 MHz - 174 MHz (LMR)	17 hr.	5	Li-Ion	VHF	HX400	Standard Horizon	**18F512**
Submersible, Intrinsically Safe - Handheld	40	156 to 163.275 MHz (Marine Band); 137 MHz - 174 MHz (LMR)	20 hr.	5	Li-Ion	VHF	HX400IS	Standard Horizon	**18F513**
Floats/Submersible - Handheld	88	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	8 hr.	6	Li-Ion	VHF	M36	Icom	**40XA15**
Submersible - Handheld	88	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	18 hr.	6	Li-Ion	VHF	M73	Icom	**40XA17**
Submersible - Handheld	88	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	18 hr.	6	Li-Ion	VHF	M73 PLUS	Icom	**40XA22**
Portable - Handheld	88	156.025 to 163.275 MHZ, 156.025 to 157.425 MHz	11 hr.	5	1500mAh Li-Ion	VHF	M25 GRAY	Icom	**48FT60**
Floating - Handheld	97	134 to 174 MHz	10 hr.	6	Li-Ion	VHF	HX870	Standard Horizon	**40JC26**
Portable - Handheld	110	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	15 hr.	5	Li-Ion	VHF	M88 01	Icom	**40XA29**
Portable - Handheld	1065	156.025 to 157.425 MHz, 156.050 to 163.275 MHz	10 hr.	2.5	700mAh Ni-MH	VHF	HX100	Standard Horizon	**481Z46**
Portable - Handheld	1065	156.025 to 157.425 MHz, 156.050 to 163.275 MHz	10 hr.	5	1030mAh	VHF	HX150	Standard Horizon	**481Z47**
Portable - Handheld	1065	156.025 to 157.425 MHz, 156.050 to 163.275 MHz	10 hr.	6	1800mAh Li-Ion	VHF	HX210	Standard Horizon	**481Z48**
Portable - Handheld	1065	156.025 to 163.275 MHz, 134.00 to 174.000 MHz	10 hr.	5	1600mAh Li-Ion	VHF	HX380	Standard Horizon	**481Z49**
Portable - Handheld	1065	406.100 to 470.000 MHz	10 hr.	5	2300mAh Li-Ion	UHF	HX407	Standard Horizon	**481Z50**
Portable - Handheld	1065	156.025 to 161.600 MHz, 156.050 to 163.275 MHz	10 hr.	6	1850mAh Li-Polymer	VHF	HX40	Standard Horizon	**481Z51**
Mobile - Desktop	1065	156 to 163 MHz	—	25	—	VHF	GX6000	Standard Horizon	**481Z52**

Consumer GRMS Two Way Radios

MIDLAND
Uniden®
MOTOROLA SOLUTIONS
Cobra®

- All radios sold in pairs

These palm-sized walkie-talkies slide into a jacket pocket or clip onto your belt or backpack. They are ideal for use on campgrounds, playgrounds, ski slopes, hiking trails, and boats. For information on what these models include, go to Grainger.com®.


No. 31FM85


No. 32RT62


No. 45CE59


No. 33UG14

Output Watts	Outdoor Range (Miles)	Battery Type	Color	Privacy Codes	Direct Call	NOAA Channels	Emergency Alert	LED Flashlight	Waterproof	Submersible Floating	Brand	Mfr. Model	Item No.
Consumer 2-Way Radios													
2	24	NiMH	Black						●		Midland	LXT500VP3	**31FM85**
9	—	NiMH Battery Pack or AAA Alkaline	Black/Silver	●		●	●				Uniden	GMR4040-2CKHS	**32RT62**
0.9	40	Rechargeable NiMH	Black/Green	●		●	●				Uniden	GMR4060-2CKHS	**48RM83**
9	50	NiMH	Silver	●		●	●				Uniden	GMR5089-2CKHS	**20V767**
0.9	30	Rechargeable NiMH	Black/Red	●		●	●				Uniden	GMR3055-2CK	**48RM85**
0.9	40	Rechargeable NiMH	Camo	●		●	●			●	Uniden	GMR4088-2CKHS	**48RM86**
0.9	50	Rechargeable NiMH	Camo	●	●	●	●	●	●	●	Uniden	GMR5088-2CKHS	**48RM87**
0.7 to 2.5	—	NiMH	Black/White			●	●			●	Uniden	Atlantis 150	**48UM05**
1 to 5	—	Li-Ion	Black			●				●	Uniden	MHS75	**48UM06**
2	35	NiMh or (3) AA	Black/Green			●			●	●	Motorola	T465	**45CE59**
2	35	NiMh or (3) AA	Black/Yellow						●		Motorola	T400	**45CE64**
2	35	NiMh or (3) AA	Black/White/Red				●		●		Motorola	T480	**45CE60**
0.5	—	NiMh or Alkaline	Gray	●					●		Motorola	T200TP	**49EG61**
0.5	—	NiMh or Alkaline	White/Red	●					●		Motorola	T260	**49EG62**
0.5	—	NiMh or Alkaline	White/Red	●					●		Motorola	T260TP	**49EG63**
0.5	—	NiMh or Alkaline	Green	●		●	●		●	●	Motorola	T605	**49EG65**
0.5	—	(3) AAA (Not Included)	Blue	●						●	Motorola	T100TP	**49EG66**
0.5	—	NiMh or Alkaline	Gray	●							Motorola	T200	**49EG60**
0.5	—	Alkaline	Blue	●							Motorola	T100	**49EG58**
0.5	—	(3) AAA Alkaline	Pink	●							Motorola	T107	**49EG59**
1.5	38	Rechargeable NiMH	Black	●		●			●		Midland	T71VP3	**49VZ80**
1	30	Rechargeable NiMH	Black/Yellow	●		●			●		Midland	T61VP3	**49VZ79**
1.5	38	Rechargeable NiMH	Black	●							Midland	T77VP5	**49VZ82**
0.5	28	Rechargeable NiMH	Black/Orange	●					●		Midland	T51VP3	**49VZ78**
0.5	20	(3) AAA (Not Included)	Black	●		●			●		Midland	T10	**49VZ76**
0.5	26	Rechargeable NiMH	Black/Red	●		●			●		Midland	T31VP	**49VZ77**
0.5	26	Rechargeable NiMH	Black/Red	●		●		●	●		Midland	EX37VP	**49VZ83**
2	37	AA NiMH Rechargeable	Orange/Black	●		●		●	●	●	Cobra	ACXT1035R FLT	**33UG14**
3	1 to 2	850mAh AAA NiMH Rechargeable	Black	●		●	●	●	●	●	Cobra	MR HH125	**33UG21**
0.5	16	AAA NiMH Rechargeable	Black		●						Cobra	ACXT145	**33UG10**
1	23	AA NiMH Rechargeable	Black	●		●					Cobra	ACXT345	**33UG15**
0.5	28	NiMH	Black/Camouflage	●		●			●		Midland	T55VP3	**52XZ95**

Description	Fits 4LPL8	Fits 5GKA3	Fits 20JY93	Fits 20V765	Fits 20V766	Fits 20V767	Brand	Mfr. Model	Item No.
Accessories									
Remote Speaker Microphone	●	●					Motorola	53724	**4PKN8**
Headset with Swivel Boom Microphone	●	●					Motorola	53725	**4PKN9**
Replacement NiMH Battery		●			●		Motorola	53615	**5GJZ9**
Replacement NiMH Battery	●					●	Motorola	53617	**5GKA0**
Replacement NiMH Battery			●				Uniden	BP38	**20V768**
DC Power Adaptor				●			Uniden	BADG0775001	**20V770**


No. 2EUJ2


No. 4WEL4


No. 4WEK8


No. 4WEG9


No. 2EUJ1


No. 4WEK1

MOTOROLA SOLUTIONS

Business and Mission-Critical Tier Radio Accessories

Description	Fits HT750 HT1250 HT1550 MTX850 MTX950	Fits HT1000	Fits MTX8250 MTX9250	Fits EX500 EX600	Fits PR860	Fits PR1500 XTS1500 XTS2500 XTS3000 XTS3500 XTS5000	Fits MT1500 MT2000 MTS2000	Fits XPR Series	Fits APX Series	Mfr. Model	Item No.
Audio Accessories											
Remote Speaker Microphone	●									PMMN4021A	**2EUJ2**
Remote Speaker Microphone				●						PMMN4022A	**2EUJ5**
Windporting Remote Speaker Microphone, IP56								●		PMMN4040A	**4WEL7**
Windporting Remote Speaker Microphone with Earjack		●				●	●			PMMN4051B	**4WEK3**
Windporting Remote Speaker Microphone, IP57		●				●	●			PMMN4038A	**4WEK4**
IMPRES Windporting Remote Speaker Microphone with Earjack								●		PMMN4025A	**4WEL6**
Temple Transducer Headset		●				●	●			RMN4049A	**4WEL4**
Temple Transducer Headset								●		PMLN5101A	**4WEL8**
Earpiece with Microphone and Push-to-Talk Combined, (2-Wire) Black				†						BDN6729A	**4WEK7**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black		●		†		●	●			RLN5312B	**4WEK8**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black	●		●		●					RLN5315A	**4WEK9**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black								●		PMLN6129A	**4WEN1**
Extra-Loud Receive-Only Earpiece with Standard Earphone, (1-Wire) Black		●		†		●	●			BDN6727A	**4WEK6**
3.5mm Jack Adapter with Quick Disconnect Latch		●				●	●			BDN6676D	**4WEL2**
Audio Adapter				●						PMLN4455B	**4WEL3**
Speaker/Microphone, IMPRES, APX Series									●	HMN4101B	**31MG21**
Speaker Microphone, ASTRO 25 Series						●				HMN4112A	**31MG07**
Speaker Microphone, IMPRES, APX Series									●	HMN4103B	**31MG14**
Speaker Microphone, IMPRES								●		PMMN4048B	**31MG24**
Speaker Microphone, APX Series									●	PMMN4060B	**31MG36**
Bluetooth Accessory Kit								●		RLN6500A	**31MG50**
Bluetooth Adapter								●		PMLN5712B	**31MG51**
Surveillance Kit						●				NTN1736A	**31MG05**
Speaker Microphone, IMPRES, MotoTRBO								●		PMMN4050A	**31MG67**
Speaker Microphone, Remote	●		●		●					PMMN4039A	**31MG78**
Earbud, Remote								●	●	RLN4941A	**31MG83**

Description	Fits HT750 HT1250 HT1550 MTX850 MTX950	Fits MTX8250 MTX9250 PR860	Fits EX500 EX600	Fits EX560	Fits PR1500 MT1500 XTS1500 XTS2500	Fits XTS3000 XTS3500 XTS5000	Fits XPR	Fits APX	Mfr. Model	Item No.
Batteries										
1500 mAh Battery, NiMH	●								HNN9008AR	**2EUH7**
1800 mAh Battery, NiMH, IS	●								HNN9010AR	**2EUH8**
1500 mAh Battery, Li-Ion	●								HNN9013DR	**2EUH9**
1800 mAh IMPRES Battery, NiMH	●								HNN4001A	**4WEG9**
1690 mAh IMPRES Battery, NiMH, FM	●								HNN4002A	**4WEH1**
2000 mAh IMPRES Battery, Li-Ion	●								HNN4003BR	**4WEH2**
1900 mAh Battery, NiMH	●								HNN9009AR	**4WEH3**
1320 mAh LBattery, Li-Ion			●						JMNN4024CR	**2EUJ3**
1400 mAh Battery, Li-Ion, RUG			●						PMNN4074AR	**4WEH4**
1400 mAh Battery, Li-Ion				●					PMNN4073AR	**2EUJ4**
2100 mAh Battery, NiMH					●				NTN9858C	**4WEG3**
2000 mAh Battery, NiMH					●				NTN9857C	**4WEG4**
2700 mAh Battery, Li-Ion					●				NNTN7335B	**4WEG6**
1700 mAh Battery, NiMH, FM, RUG						●			NNTN4437B	**4WEF7**
3500 mAh Battery, NiMH						●			PMNN4093A	**4WEF8**
3500 mAh Battery, NiMH, FM						●			RNN4007AR	**4WEF9**
2750 mAh Battery, Li-Ion						●			NTN9862D	**4WEG2**
3950mAh Battery Pack, Lithium-Ion					●				NNTN7453A	**31MG34**
2300mAh Battery Pack, Lithium-Ion								●	NNTN8092A	**31MG45**
4100mAh Battery Pack, Lithium-Ion								●	NNTN7033A	**31MG27**
2300mAh Battery Pack, Lithium-Ion							●	●	NNTN8129AR	**31MG49**
Chargers and Charging Adapters										
120V Single Unit Rapid Rate Charger	●		●	●					AAHTN3000D	**2EUJ1**
Charger	●	●							WPLN4182A	**4WEJ7**
120V IMPRES Single Unit Charger							●		PNPN4137A	**4WEK1**
Batteries										
2300mAh Battery, Lithium Ion								●	PMNN4424AR	**31MG57**
1900mAh Battery, Lithium Ion								●	NNTN8128BR	**31MG64**
2150mAh Battery, Lithium Ion							●		PMNN4544A	**31MG72**

† Requires No. 4WEL3 Audio Adapter.


No. 2HNG7


No. 2HNG4


No. 5EDD3


No. 4WEN2


No. 5EDD1


No. 5EDD6


No. 2HNE2


No. 2HNG1


No. 2HNK4


No. 2HNH2


No. 2HNK7

MOTOROLA SOLUTIONS

Commercial Tier Radio Accessories

Description	Fits CP and PR400	Fits CT	Fits SP50	Fits VL130 and CP125	Fits GP350	Fits GP300	Fits GTX	Fits P1225	Fits BPR40	Mfr. Model	Item No.
Audio Accessories											
Remote Speaker Microphone with Earjack	●	●	●	●				●		PMMN4013A	**2HNG7**
Remote Speaker Microphone									●	PMMN4008A	**2HNG4**
Remote Speaker Microphone, FM	●									PMMN4029A	**5EDC7**
Lightweight Headset with In-Line PTT, FM	●							●		RMN4016B	**5EDD3**
Ear Loop Earpiece	●	●	●	●				●		HKLN4424A	**4WEN2**
Surveillance Kit	●	●	●			●		●		RLN5318A	**4WEL1**
Earpiece with Microphone and PTT Combined, (2 Wire) Beige, FM	●									HMN9754D	**5EDD0**
Earpiece with Microphone and PTT Combined, (2 Wire) Black, FM	●									RLN4895A	**5EDD1**
D-Ring Style Earpiece with PTT Mic, FM	●									PMLN5001A	**5EDD5**
Temple Transducer, FM	●									PMLN5011A	**5EDD6**
Lightweight Temple Transducer	●									PMLN5003A	**5EDD7**
Accessory Retainer Kit	●									RLN5500A	**5EDC5**
Batteries											
NiMH Rechargeable 1400 mAh Battery	●									NNTN4851A	**2HND8**
Li-Ion 1500mAh Battery									●	PMNN4075AR	**31MG91**
Li-Ion Rechargeable 2250 mAh Battery	●									NNTN4497DR	**2HNE2**
Li-Ion Slim Rechargeable 1600 mAh Battery	●									NNTN4970A	**2HNF7**
NiMH 1300 mAh Battery, FM	●									NNTN4852A	**4WEH5**
NiMH Rechargeable 1200 mAh Battery									●	PMNN4071AR	**2HNG1**
Chargers											
Desktop Single Unit Charger	●									PMPN4173A	**2HNK4**
Desktop Single Unit Charger			●							HTN9013B	**2HNK2**
Desktop Single Unit Charger				●						PMTN4087A	**2HNK8**
Desktop Single Unit Charger					●	●	●	●		HTN9042A	**2HNK6**
Desktop Single Unit Charger									●	PMLN4738BR	**2HNK5**
Multi Unit Charger	●									PMLN6588A	**31MG03**
Carry Accessories											
Carry Case with Swivel	●									RLN5385B	**2HNH2**
Leather Carry Case									●	PMLN4742A	**2HNH5**
Belt Clip	●									HLN8255B	**4WEN4**
Spring Action 1.5" Belt Clip				●						HLN9844A	**2HNK7**
Antennas											
UHF Flexible Whip Antenna	●									PMAE4016A	**5EDC6**



No. 481R56



No. 481R57



No. 481R69



No. 481R87



No. 481R92

MOTOROLA SOLUTIONS

Business Portable Two Way Radio Accessories

Description	FITS SERIES VX-261 VX-264	VX-450	EVX-524	EVX-261	Mfr. Model	Item No.
Alkaline Battery Cases						
400 to 420 MHz Antenna		●			AAH72X501 ATU-16B	**481R57**
400 to 430 MHz Antenna			●		AAM23X501 ATU-20AS	**481R61**
400 to 430 MHz Antenna	●		●	●	AAE23X501 ATU-6A	**481R69**
450 to 485 MHz Antenna	●			●	AAE20X503 ATU-6DS	**481R70**
420 to 450 MHz Antenna			●	●	AAE23X506 ATU-6B	**481R71**
440 to 470 MHz Antenna			●	●	AAE23X502 ATU-6C	**481R72**
490 to 512 MHz Antenna	●			●	AAE23X504 ATU-6F	**481R74**
136 to 150 MHz Antenna		●			AAH73X502 ATV-16A	**481R75**
150 to 163 MHz Antenna	●				AAE19X502 ATV-6B	**481R81**
VHF Antenna	●			●	AAG42X501 ATV-6XL	**481R83**
Batteries						
Battery Pack - 1380 mAh, Lithium-Ion	●	●		●	AAJ67X501 FNB-V133LI-UNI	**481R87**
Battery Pack - 2300 maH, Lithium-Ion	●	●		●	AAJ68X501 FNB-V134LI-UNI	**481R88**
Battery Pack - 2300 maH, Lithium-Ion		●			AAK66X501 FNB-V134LIIS	**481R89**
Battery Pack - 1200 maH, Nickel-Metal Hydride	●	●		●	AAL01X501 FNB-V136-UNI	**481R90**
Battery Pack - 2300 maH, Lithium-Ion			●		PMNN4468A	**481R91**
Carry Cases						
Radio Belt Clip Belt Clip			●		AAM18X501 CLIP-27	**481R92**
Radio Belt Clip Belt Clip	●	●		●	AAH12X501 CLIP-20	**481R93**
Chargers						
Charger	●	●		●	XUAAJ72X511 VAC-UNI	**481T13**
Charger Tray			●		AAM19X501 CD-65	**481T15**
Headsets & Surveillance						
Earpiece Microphone			●		AAM21X501 MH-89A4B	**481T19**
Headset	●	●		●	AAL40X501 VH-150A	**481T20**
Speaker Microphones						
Submersible Remote Speaker Microphone	●	●		●	AAE46X507 MH-66A4B	**481T29**
Compact Remote Speaker Microphone			●		AAM24X501 MH-90A4B	**481T30**
Compact Remote Speaker Microphone	●	●		●	AAF52X501 MH-360S	**481T32**
Portable Service Tools						
USB Cable	●	●		●	AAD68X501 CT-106	**481T35**
Micro USB Cable			●		CB000262A01	**481T37**



No. 481T45



No. 481T46



No. 481T47



No. 4PHH4

MOTOROLA SOLUTIONS

Business Mobile Two Way Radio Accessories

Description	FITS SERIES VX-2100 VHF	VX-2100 UHF	VX-2200 VHF	VX-2200 UHF	Mfr. Model	Item No.
Mobile Service Tools						
USB Cable	●	●	●	●	AAJ23X501 FIF-12	**481T36**
Interface for FIF-12 Cable	●	●	●	●	AAD66X502 CT-104A	**481T38**
Programming/Cloning Cable	●	●	●	●	T9101411 CT-4	**481T42**
Tuning Interface	●	●	●	●	AAJ06X001 FRB-6	**481T43**
Mobile Microphones						
Desktop	●	●	●	●	AAF13X501 MD-12A8J	**481T45**
Palm	●	●	●	●	AAE60X502 MH-67A8J	**481T46**
DTMF	●	●	●	●	AAG22X501 MH-75A8J	**481T47**
Mobile Speakers						
External	●	●	●	●	A09260503 MLS-100	**481T48**
External Waterproof	●	●	●	●	AAD49X501 MLS-200	**481T49**
Mobile Power Supply						
Desktop Switching	●	●	●	●	XUSLX0001A SEC-1223	**481T50**
Mobile Radio Antenna Kits						
¼ Wave VHF Permanent Mount Antenna Kit	●		●		RAS-1000K	**4PHG6**
¼ Wave UHF Permanent Mount Antenna Kit		●		●	RAS-1010K	**4PHG7**
¼ Wave VHF Magnetic Mount Antenna Kit	●		●		RAS-1020K	**4PHG8**
¼ Wave UHF Magnetic Mount Antenna Kit		●		●	RAS-1030K	**4PHG9**
¼ Wave VHF Trunk Mount Antenna Kit	●		●		RAS-1040K	**4PHH1**
¼ Wave UHF Trunk Mount Antenna Kit		●		●	RAS-1050K	**4PHH2**
L Bracket for Permanent Mount Antenna Kit	●	●	●	●	RAS-1060A	**4PHH3**
Base Station Antenna Kits						
VHF Base Station Antenna Kit for VS Mobile	●		●		RAS-2000K	**4PHH4**
UHF Base Station Antenna Kit for VS Mobile		●		●	RAS-2010K	**4PHH5**



Temple Transducer No. 2EUH1



Speaker Microphone No. 45EC28



Ultra-High Capacity Li-ion Battery No. 2HNC2



Spring Action Belt Clip No. 2HNB9



Hard Leather Carrying Case No. 2HNB1



Replacement Swivel Belt Holster No. 3AY84



UHF Stubby Antenna No. 2HNC6

MOTOROLA SOLUTIONS

Two Way Business Radio Accessories

Audio Accessories—Talk and listen to 2-way radio without removing it from case or belt. Temple Transducer No. 2EUH1 is ideal for high noise environments. Can receive audio via bone conduction while wearing hearing protection. Unit comes with microphone and In-line Push-to-Talk button.

Remote Speaker Microphone No. 45EC28 allows communication without removing radio from belt.

Batteries and Chargers—Genuine Motorola batteries and chargers provide optimum performance and help ensure clear, reliable communication.

Carry Accessories—Designed to fit radios with a battery and permit audio to be heard clearly. Carrying cases are premium-grade leather and help protect radios from daily abuse.

Programming Accessories—Allow an interface with customer programming software to easily set up and maintain a radio fleet.

Description	FITS SERIES RDX Series	DTR Series	CLS Series	Previous XTN Series	Previous AX Series	Previous M Series	Mfr. Model	Item No.
Audio Accessories								
Temple Transducer	●	●	●	●	●	●	RMN5114	**2EUH1**
Speaker Microphone	●	●	●	●	●	●	HKLN4606A	**45EC28**
Earbud w/Clip Microphone & Push-to-Talk	●	●	●	●	●	●	53866A	**6B525**
Batteries								
Ultra-High Capacity Li-Ion Battery	●						RLN6308C	**2HNC2**
Standard Capacity Li-Ion Battery	●						RLN6351C	**2HND5**
Li-Ion Battery, 3.6V		●					53963	**1PA79**
NiMH Rechargeable Battery				●			NNTN4190A	**1WC75**
NiMH 1500 Mah Battery					●		PMNN4063BR	**4NA32**
Chargers								
Single Unit Charger			●				56553	**31MG31**
Multiunit Charger	●						RLN6309A	**2HNC4**
Multiunit Charger		●					53960	**1PA78**
Multiunit Charger			●				56531	**3AY85**
Rapid Charger Kit	●						RLN6304B	**2HNB5**
Carry Accessories								
Hard Leather Carrying Case	●						RLN6302A	**2HNB1**
Replacement Swivel Belt Holster		●					53961	**1PA77**
Replacement Swivel Belt Holster			●				HCLN4013C	**3AY84**
Spring Action Belt Clip	●						RLN6307A	**2HNB9**
Spring Action Belt Clip					●		HLN9714A	**4NA31**
Antennas								
UHF Stubby Antenna 450 to 470 MHz	●						RAN4033A	**2HNC6**
UHF Whip Antenna for Nos. 2HNA7 and 2HNA8 Only	●						RAN4031A	**2EUH4**
VHF Helical Antenna for No. 2HNA6 Only	●						RAN4041A	**2EUH3**
Digital Replacement Antenna		●					8505241U06	**10K213**
Digital Replacement Whip Antenna		●					8505241U04	**10K214**
Programming Accessories								
CPS Programming Cable	●						HKKN4027A	**29WJ59**
CPS Programming Cable		●					0105950U15	**2EUH6**


No. 4KYE7


No. 4NPD3


No. 4KYF5


No. 4KYD6


No. 4NPD7



No. 4KYE1



No. 4KYE5

KENWOOD

ProTalk® Two Way Business Radio Accessories

Genuine Kenwood accessories enhance the functionality of ProTalk® Business Radios.

Description	FITS VHF MODELS 43Y985	43Y986	43Y990	FITS UHF MODELS 4KYC7, 4NPD8	43Y987, 43Y988, 43Y989	20PF27	Mfr. Model	Item No.
Antennas								
VHF Stubby Antenna	●	●	●				KRA-41M	**43Y994**
UHF Stubby Antenna					●		KRA-42M	**43Y995**
VHF Low Profile Helical Antenna	●	●	●				KRA-22M	**4KYD1**
UHF Low Profile Helical Antenna					●		KRA-23M	**4KYD2**
VHF Helical Antenna	●	●	●				KRA-26M	**4KYD3**
UHF Whip Antenna					●		KRA-27M	**4KYD4**
Audio Accessories								
Single Muff Headset	●	●	●	●	●		KHS-7	**4KYE7**
Single Muff Headset w/ Inline Push-to-Talk	●	●	●	●	●		KHS-7A	**4KYE8**
2-Wire Palm Mic w/ Earphone (Black)	●	●	●	●	●		KHS-8BL	**4KYE9**
3-Wire Lapel Mic w/ Earphone (Black)	●	●	●	●	●		KHS-9BL	**4KYF2**
Heavy-Duty Noise Reduction Behind-the-Head	●	●	●	●	●		KHS-10D-BH	**4KYF4**
Heavy-Duty Noise Reduction Over-the-Head	●	●	●	●	●		KHS-10D-OH	**4KYF5**
Behind the Head Headset w/Push-to-Talk	●	●	●	●	●		KHS-22A	**4NPC9**
Clip Mic w/Earphone	●	●	●	●	●		KHS-26	**4NPD3**
Headset with Earbud						●	KHS-33	**20PF32**
Push-to-Talk Microphone w/Ear Clip						●	KHS-34	**20PF33**
D-Ring Ear Hanger w/ Inline Push-to-Talk	●	●	●	●	●		KHS-27A	**4NPD4**
Earphone Kit for No. 4NPD7	●	●	●	●	●		KEP-2	**4NPD5**
Lightweight Compact Speaker Mic	●	●	●	●	●		KMC-21	**4NPD6**
Speaker Mic	●	●	●	●	●		KMC-45D	**4NPD7**
Batteries and Chargers								
Li-Ion 2,000 mAh Battery	●	●	●		●		KNB-45L	**4KYD5**
Li-Ion 2,000 mAh Battery				●			KNB-46L	**4KYD6**
Li-Ion, 1430mA, Rechargeable Battery						●	KNB-71L	**20PF28**
2-Way Radio Car Charger	●	●	●	●	●		KVC-22	**43Y993**
Fast Charger for No. 4KYD5, 3-hr.	●	●	●		●		KSC-35SK	**4KYD7**
Fast Charger for No. 4KYD6, 2.5-hr.				●			KSC-37	**4KYD8**
6-Unit Charger for No. 20PF27						●	KMB-44K	**20PF30**
Multi Unit Charger Adapter for No. 4KYD8				●			KMB-27	**4KYD9**
Multi Unit Charger Adapter for No. 4KYD7	●	●	●		●		KMB-28-C	**4KYE1**
Battery Charger for No. 20PF27						●	KSC-44K	**20PF29**
Holster and Belt Clips								
Spring Action Belt Clip	●	●	●		●		KBH-10	**4KYE2**
Spring Action Belt Clip				●			KBH-14M	**4KYE3**
Nylon Carry Case	●	●	●		●		KLH-187	**43Y992**
Nylon Carry Case				●			KLH-150	**4KYE5**
Audio Accessories								
Ear Loop Earpiece	●	●	●	●	●		KHS-31C	**45LW59**


No. 54HH94

No. 54HH72

Radio Surveillance

EAR PHONE CONNECTION

Wireless Lapel Microphone—This push-to-talk microphone with Bluetooth™ technology has easy to connect alignment and distributes excellent audio quality. Provides up to 12 hr. talk time. Includes Fox listen only earpiece, ear tips (left and right), USB cable, and wall charger.

Surveillance Kits—These 2-wire kits feature a microphone that can fit into your palm. Extra long cables provide less tension at the connector. Clear acoustic long tube delivers quality sound. Includes hardwire adapter, and earpieces for both ears. Can be clipped-on.

Description	Item No.
Wireless Lapel Microphone	
For Radios with Embedded Bluetooth: Harris: XG75/100 & XL200-P; Kenwood: NX5000 series; Relm: KNG2; Hytera: X1P; Icom: F3400&F4400, F5400&F6400; Sepura: STP & SC20	**54HH94**
Surveillance Kit	
Kenwood Nexedge NX220, NX320, TK208, 220, 240, 240D, 248, 250, 259, 260G, 270G, 272G, 308/320, 340/340D, 348, 350, 353, 359, 360G, 370G, 372G, 373G, 430, 431, 1373	**54HH72**
Motorola CLS1110, CLS1410, XTN446, XTN500, XTN600, GP68, GP88, GP300, GP308, GP2000, CP88, CP100, CP125, CP150, CP185, CP200, CT150, CT250, CT450, CT450LS	**54HH73**
Kenwood Nexedge NX200, NX300, NX210, NX410, TK190, 200, 280, 290, 380, 390, 480, 481, 2140, 2180, 3140, 3180, 5210, 5220, 5310, 5320, 5400	**54HH74**


No. 477V63


No. 477V64

EAR PHONE CONNECTION

Comfort Ear Tips

Ambidextrous ear tip cone that fits both left or right ear. Designed to fit into the opening of either ear canal without penetrating the inside of your ear, reducing ear fatigue. Ear tip is made of soft silicone gel, providing all day comfort. Open skeleton design allows more ambient sound to pass through your ear for improved situational awareness. Universal acoustic tube fit.

Description	Clear Item No.	Black Item No.
Small	**477V63**	**477V64**
Medium	**477V65**	**477V66**
Large	**477V67**	**477V68**

Description	Connector Type	Brand	Item No.
CB Radios			
29 NW Classic	PL259	Cobra	**23M566**
19 DXIV	4-Pin	Cobra	**23M567**
Handheld CB Radio	—	Midland	**23M606**
Portable to Mobile CB Radio	—	Midland	**23M607**
Bearcat 880	PL259	Uniden	**53JW87**
PC78LTX	PL259	Uniden	**53JW88**
CB Radio Accessories			
Shock Resistant, External Speaker	3.5mm	Cobra	**23M568**
Switchable Noise Filter, External Speaker	3.5mm	Cobra	**23M569**
Noise Cancelling CB Microphone	4 Pin	Cobra	**23M570**

Cobra® Uniden® MIDLAND

CB Radios and Accessories

All radios have 40 channels.



First Alert® ALERT WORKS MIDLAND American Red Cross eton EMPOWERED BY NATURE

Weather Alert Radios

- 162.40 to 162.55 MHz

Specific Area Message Encoding (S.A.M.E.) feature provides localized weather and hazard alerts down to 1 county. Batteries not included.

TABLETOP HAZARD ALERT RADIO, AC- AND BATTERY-POWERED

Includes a 90dB alert siren.

TABLETOP HAZARD ALERT RADIO, AC-POWERED

Features full date display and 10 memory channels. Can add or remove up to 8 weather alerts (i.e. flood warning, storm watch). Radio receives both analog and digital signals.

HANDHELD HAZARD ALERT RADIO, BATTERY-POWERED

A weather Test button ensures weather alert feature is functioning and auto scan locates available weather channels. Weather scan feature allows scanning and locking onto the strongest weather channel signal. Receive alerts by tone, voice, or visual. Large backlit LCD display features tri-color LED with 3 alerts including Weather, Watch, and Advisory.

EMERGENCY SEVERE WEATHER SURVIVAL RADIOS

Crank handle to recharge included NiMH battery.

No. 22A871 includes digital tuner display, headphone jack, and beacon. NOAA alert notifications: Child Abduction Emergency (Amber Alert), Nuclear Power Plant Warning, Biological Hazard Warning, Civil Emergency Message, Fire Warning, and Landslide Warning. Also runs on solar, battery, or AC power. Nos. 31EX14 is an emergency crank radio and ideal for emergency preparedness, camping, beach, park, and everyday use. Nos. 33UD34 is rugged with a rechargeable Li-ion battery, large solar panel, and hand turbine power generator.



No. 10A458


No. 22A871


No. 45CY02

Description	Programmable S.A.M.E. Codes	Hazard Alert Notification	AM/FM Radio	NOAA Weatherband	LED Flashlight	USB Cell Phone Charger	Alarm Clock	Color	Brand	Mfr. Model	Item No.
Portable Table Top Weather Radio (3) AA Batteries, AC Adapter		●	●	●				Red	First Alert	SFA1100	**45NL18**
Portable Weather Radio (3) AAA Batteries, Hand Crank, Mini USB Cable, Solar	●	●	●	●	●	●		Black	First Alert	SFA1180	**45NL22**
Tabletop Hazard Alert Radio, AC- and Battery Powered	●	●		●			●	Black	Alert Works	EAR-10	**13E399**
Tabletop Hazard Alert Radio, AC-Powered, Battery Powered	●	●		●			●	White	Midland	WR-120B	**10A458**
Portable Weather Radio 2600 mAh Rechargeable Battery, Hand Crank, Mini USB Cable, Solar	●	●	●	●	●	●	●	Red	American Red Cross	ARCFRX3+WXR	**22A871**
Emergency Alert Radio			●	●	●	●		Red/Black	Midland	ER210	**31EX14**
Emergency Alert Radio			●	●	●	●		Red/Black	Midland	ER310	**31EX15**
Portable Weather Radio Hand Crank, Micro USB Cable, Rechargeable Battery, Solar			●	●	●	●		Black/Green	Eton	NSP101GR	**45CY02**

AIPHONE®

Audio Video Entry System

The JK series allows you to identify visitors while remaining safe behind locked doors. Ideal for single-family homes and small- to mid-sized buildings. Door stations are equipped with a 170° wide angle. Features zoom-in and zoom-out options to identify everyone at the entrance, PanTilt feature to see close up, and full-color video. Monitors adjust for low light and nighttime settings, as well as bright and heavy backlighting. JF model is designed for clear identification even in low light conditions. Includes LED talk indicator and both hands-free and push-to-talk options. For commercial, educational, government, healthcare, and residential applications. JO series features a 7" screen, light touch buttons, clear picture quality, sleek design, and 2-conductor wiring. Touch buttons allow you to select volume, discreet monitor, LCD adjustment, secondary device, door release, and hands-free communication.



No. 36TP95

Description	H (in.)	W (in.)	D (in.)	For Use With	Includes	Item No.
Video Intercom Station Kit	17	10½	3½	JO Series	JO-1MD Video Intercom Master Station, JO-DV Surface Mount Die Cast Zinc Door Station	**36TP95**
	17	10½	3½	JO Series	JO-1MD Video Intercom Master Station, JO-DVF Flush Mount Stainless Steel Door Station	**36TP96**
Call Audio Master Station	2⅛	7 1/16	5⅝	LEF Series	Mounting Hardware	**36TR48**
	3	9⅜	7⅞	LEF Series	Mounting Hardware	**36TR42**
Audio Master Station	2⅛	7 1/16	5⅝	LEM Series	Mounting Hardware	**36TR80**
Door Station				LEF, LEM, AP-M, or MP-S Series	Mounting Hardware	**36TT12**

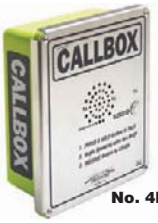
Two Way Radio Callboxes and Callbox Systems



No. 48FX21



No. 41P015



No. 4RB70

- **Compatible with virtually any existing VHF or UHF business radio system operating on the same frequency**

Wireless technology installs quickly and easily without trenching and construction. Large speaker is audible even in noisy environments. Powered by 6 D batteries or 12VDC external power.

ClubCall® System—Food ordering system allows communication from the golf course to the clubhouse restaurant. Weatherproof, vandal-resistant design. Automatic shutoff. Programmable volume settings. Includes a 1 series radio callbox, AC-powered fixed-location base station, and matching 2-way portable radio with charging stand. Can be factory programmed for additional custom and repeater frequencies.

GateGuard® System—Voice intercom system enables control of gates and mag-lock doors using portable radio and fixed-location base station radio. Includes a 6 series weatherproof radio callbox with remote-control relay feature, 12VDC-110VAC power supply for callbox, matching business band 2-way portable radio with charging stand, and base station. Entry keypad models allow personnel to use preapproved codes for direct entry. Callbox and entry keypad require a hardwire connection to the gate controller or mag-lock for operation. Can be factory-programmed for additional custom and repeater frequencies.

Quick Assist® Shopper Call Buttons—Press of a button instantly alerts radio-equipped staff to the area where assistance is needed. Stand-alone, battery-operated buttons do not require wiring. indoor/outdoor use. Use with existing business band 2-way radios operating on the same VHF or UHF frequencies.

Band Type	Includes	Output Watts	Operating Range	Inside Range (Floors)	Inside Range (sq. ft.)	Channels	No. of Privacy Codes	Programmable Channels	Item No.
Base Station Intercom, Indoor									
UHF	14¼" Articulating Antenna, Owners Manual, Built In Microphone, Push to Talk Button and Large, Easy to Hear	2	1 to 2 mi.	—	—	10	50	Yes	**4YN06**
ClubCall® System									
VHF	Ritron VHF Outdoor Callbox RQX-151-XT, VHF Portable and VHF Base Station	1	Up to 2 Miles	8	150,000	1	154	26	**2EUF8**
UHF	Ritron UHF Outdoor Callbox RQX-451-XT, UHF Portable and UHF Base Station	1	Up to 2 Miles	10	180,000	1	154	77	**2EUF9**
GateGuard® System									
UHF	Ritron RQX-456-XT-KP UHF Callbox w/ Entry Keypad and Remote Control Relay, UHF Portable Radio and UHF Base Station Radio Both with Remote Activation Capability	1	Up to 2 Miles	10	180,000	1	154	77	**2EUG4**
VHF	Ritron RQX-156-XT VHF Callbox w/ Remote Control Relay, VHF Portable Radio and VHF Base Station Radio Both with Remote Activation Capability	1	Up to 2 Miles	8	150,000	1	154	26	**2EUF6**
UHF	Ritron RQX-456-XT UHF Callbox w/ Remote Control Relay, UHF Portable Radio and UHF Base Station Radio Both with Remote Activation Capability	1	Up to 2 Miles	10	180,000	1	154	77	**2EUF7**
Q Series, Call box, 2-Way, Hi-Viz Green									
UHF	Built-In Remote Control Relay for Access Control, Requires Matching 2-Way Radio, Concealed Vandal-Proof Antenna, Mounting Brackets	700mW	Up to 2 Miles	2	200,000	1	Yes	114	**48FX26**
UHF	Concealed Vandal-Proof Antenna, Mounting Brackets	700mW	Up to 2 Miles	2	200,000	1	Yes	114	**48FX23**
VHF		800mW	Up to 2 Miles	2	200,000	1	Yes	27	**48FX22**
VHF MURS		800mW	Up to 2 Miles	2	200,000	1	Yes	5	**48FX21**
VHF MURS	Built-In Remote Control Relay for Access Control, Requires Matching 2-Way Radio, Concealed Vandal-Proof Antenna, Mounting Brackets	800mW	Up to 2 Miles	2	200,000	1	Yes	5	**48FX24**
Q Series, Call box, 2-Way- Black									
UHF	Built-In Remote Control Relay for Access Control, Requires Matching 2-Way Radio, Concealed Vandal-Proof Antenna, Mounting Brackets	700mW	Up to 2 Miles	2	200,000	1	Yes	114	**48FX32**
UHF	Concealed Vandal-Proof Antenna, Mounting Brackets	700mW	Up to 2 Miles	2	200,000	1	Yes	114	**48FX29**
VHF		800mW	Up to 2 Miles	2	200,000	1	Yes	27	**48FX28**
VHF	Built-In Remote Control Relay for Access Control, Requires Matching 2-Way Radio, Concealed Vandal-Proof Antenna, Mounting Brackets	800mW	Up to 2 Miles	2	200,000	1	Yes	27	**48FX31**
VHF MURS	Concealed Vandal-Proof Antenna, Mounting Brackets	800mW	Up to 2 Miles	2	200,000	1	Yes	5	**48FX27**
VHF MURS	Built-In Remote Control Relay for Access Control, Requires Matching 2-Way Radio, Concealed Vandal-Proof Antenna, Mounting Brackets	800mW	Up to 2 Miles	2	200,000	1	Yes	5	**48FX30**
Quick-Assist® Shopper Call Button, Indoor									
VHF MURS	Sealed Enclosure w/Button and Radio Transmitter with Voice Storage Capability, AA Battery Holder (Batteries Not Included), Internal Anntena	120mW	Up to ¼ Mile	2	75,000	1	Yes	7	**41P014**
VHF		120mW	Up to ¼ Mile	2	75,000	1	Yes	19	**41P015**
UHF		120mW	Up to ¼ Mile	2	75,000	1	Yes	77	**41P016**
R Series									
VHF	Stainless Steel Enclosure with Speaker/Microphone/PTT Button, Radio Transceiver, Power Supply, Antenna, Mounting Bracket	2	1 to 2 Miles	2 to 3	350,000	1	Yes	19	**41P012**
UHF		2	1 to 2 Miles	2 to 3	350,000	1	Yes	77	**41P013**
Wireless Voice Alert Systems									
UHF	Compatible Portable 2-Way Radio, Ritron UHF, 120mW Transmitter RQT-451, Wired Push Button and 50ft of Wire	120mW	Up to ¼ Mile	—	—	1	—	40	**2EUG2**
XT Vandal-Resistant, Heavy-Duty, Outdoor									
VHF	External Antenna, Interference Eliminator	1	Up to 2 Miles	8	150,000	1	133	26	**4RB71**
UHF		1	Up to 2 Miles	10	180,000	1	133	77	**4RB70**

CAT® Smartphones



No. 420C68

Scratch-resistant touchscreen includes tracking feature, allowing you to use your hand or glove to swipe even in wet weather conditions. Waterproof, dustproof, and survives depths of up to 16 ft. (5m). Phone takes underwater photographs and video. Shockproof with a drop protection of up to 6 ft.

S60 Series—Camera features FLIR integrated thermal imaging that visualizes heat invisible to the naked eye, highlighting temperature contrasts. Helps identify gaps in insulation, and electrical faults, and monitors the performance of machinery. Includes laser app that measures distance and records it. Air app alerts you to levels of indoor air pollutants. Has up to 35 hr. of talk time. Operating system: Google Android™ Oreo.

S41 Series—Delivers a powerful battery that can even charge other devices and accessories with its battery share feature. Up to 38 hr. of talk time. Provides 44 days of stand by time. Operating system: Google Android™ Nougat.

S31 Series—Easy-to-grip design features a multifunction programmable key that is useful for Push-to-Talk (PTT) one-touch communication launching its flashlight or camera. Free screen repair with a 24 month gurantee warranty. Provides 30 hr. of talk time and has 38 days stand by time. Operating system: Google Android™ Nougat.

Internal Memory Size	Features	Megapixels - Front Camera	Megapixels - Main Camera	Battery Capacity	Item No.
S60 Series					
32 GB	FLIR™, Android 6.0 Thermal Imaging, Drop Proof	5	13	3800mAh	**420C68**
				5000mAh	**457K84**
S41 Series					
32 GB	Long Battery Life, Drop Proof	8	13	5000mAh	**457K82**
S31 Series					
16 GB	Long Battery Life, Drop Proof	2	8	4000mAh	**457K83**

Analog Telephones

GAI-TRONICS® A Hubbell Company

Features	Cord Type	Color	Mount (Type)	Speakerphone	Mfr. Model	Item No.
Autodial Telephone						
15" Armored Cord	Armored Cord	Gray	Surface	No	257-001AC	**53GW60**
15" Armored Cord, Spring Door Closure	Armored Cord	Gray	Surface	No	257-001ACSK	**53GW61**
15 ft. Curly Cord	Curly Cord	Gray	Surface	No	257-001H1	**53GW62**
6 ft. Curly Cord	Curly Cord	Silver	Flush	No	277-001H6	**53GW72**
Rugged	Curly Cord	Gray	Surface	No	247-001H1	**53GW39**
Rugged, 15" Armored Cord	Armored Cord	Gray	Surface	No	247-001AC	**53GW38**
Single Button, SMART Operation, Call Button		Silver	Flush	Yes	397-001AD	**53GX19**
SMART Operation	Armored Cord	Silver	Flush	No	277-005	**53GW73**
SMART Operation, 5 ft. Armored Cord	Armored Cord	Silver	Flush	No	277-005A5	**53GW74**
SMART Operation, Rugged	Curly Cord	Gray	Surface	No	247-005	**53GW40**
SMART Operation, Spring Door Closure	Curly Cord	Gray	Surface	No	257-005SK	**53GW68**
SMART Operation, Vandal Resistant	Armored Cord	Gray	Surface	No	227-005	**53GW19**
Vandal Resistant, Lock	Armored Cord	Gray	Surface	No	227-001LD	**53GW18**
Emergency Telephone						
(2) Buttons, Compact, SMART Operation		Silver	Flush	Yes	396-001FS	**53GX18**
(2) Buttons, Compact, SMART Operation, Call Button		Silver	Flush	Yes	397-001ADFS	**53GX20**
Camera, SMART Operation, Integrated 1/3" CCD Camera		Yellow	Flush	Yes	393-001CAM	**53GX14**
Single Button, Camera, SMART Operation, Red Emergency Button		Silver	Flush	Yes	397-001CAM	**53GX21**
Single Button, SMART Operation, Retrofit		Silver	Flush	Yes	397-001CB	**53GX22**
Single Button, SMART Operation, Voice		Yellow	Flush	Yes	393AL-002	**53GX15**
Single Button, SMART Operation, Voice, ECT, Red Emergency Button		Yellow	Flush	Yes	393AL-004	**53GX16**
SIP Compatible, RT Retrofit		Silver	Flush	Yes	398-702RT	**53GX61**
SIP Compatible, TAP Retrofit		Silver	Flush	Yes	398-702TP	**53GX62**
SMART Operation, Integrated 1/3" CCD Camera		Yellow	Flush	Yes	394AL-001CAM	**53GX17**
Telephone						
15" Armored Cord	Armored Cord	Gray	Surface	No	256-001AC	**53GW49**
15" Armored Cord, Lock	Armored Cord	Gray	Surface	No	256-001ACLD	**53GW50**
15" Armored Cord, Lock, Spring Door Closure	Armored Cord	Gray	Surface	No	256-001ACLDSK	**53GW51**
15 ft. Curly Cord	Curly Cord	Yellow	Surface	No	354-001YLH1	**53GX06**
15 ft. Curly Cord, Lock	Curly Cord	Yellow	Surface	No	354-001YLH1LD	**53GX07**
15 ft. Curly Cord, Spring Door Closure	Curly Cord	Yellow	Surface	No	354-001YLH1SK	**53GX08**
29" Armored Cord	Armored Cord	Gray	Surface	No	256-001A2	**53GW47**
29" Armored Cord, Spring Door Closure	Armored Cord	Gray	Surface	No	256-001A2SK	**53GW48**
Indoor Rugged, 15" Armored Cord	Armored Cord	Gray	Surface	No	246-001AC	**53GW34**
Indoor Rugged, 25 ft. Curly Cord	Curly Cord	Gray	Surface	No	246-001H2	**53GW35**
Indoor Rugged, 29" Armored Cord	Armored Cord	Gray	Surface	No	246-001A2	**53GW33**
Lock	Curly Cord	Yellow	Surface	No	354-001YLLD	**53GX09**
Lock, Spring Door Closure	Curly Cord	Yellow	Surface	No	354-001YLLDSK	**53GX10**
Rugged, SIP Compatible	Armored Cord	Gray	Surface	No	246-700AC	**53GW37**
SMART Operation, Indoor Industrial Rugged	Curly Cord	Gray	Surface	No	246-005	**53GW36**
SMART Operation, Vandal Resistant	Armored Cord	Gray	Surface	No	226-005	**53GW17**
Spring Door Closure	Curly Cord	Yellow	Surface	No	354-001YLSK	**53GX11**



No. 53GW60



No. 53GX18

Wired Intercom Systems and Components

AIPHONE®

Description	Includes	Type	Door Station Height (in.)	Door Station Width (in.)	Door Station Depth (in.)	Item No.
AX Series						
Video Door Station	Mounting Hardware	Indoor/Outdoor	7 11/16	3 15/16	1	**36TR17**
Master Station		Indoor/Outdoor	1 1/8	6 7/8	7 5/8	**36TP71**
C Series						
Chimecom Kit	Mounting Hardware	Indoor/Outdoor	4 3/4	3 7/16	1 1/8	**36TR44**
DB Series						
Master Station/Door Station Kit	Mounting Hardware	Indoor/Outdoor	6 7/8	3 15/16	4 1/4	**36TR46**
IE Series						
Audio Tenant Station	Mounting Hardware	Indoor	8 1/2	4	3	**36TR43**
IS Series						
Master Station	Mounting Hardware	Indoor/Outdoor	2 5/16	7 7/16	9 13/16	**36TP54**
Video Door Station		Indoor/Outdoor	8 7/16	4 1/8	1 1/8	**36TP65**
JF Series						
Video Intercom Station Kit	JF-2MED Master Monitor, PS-1820UL Power Supply, JF-DA Surface Mount, ABS Plastic Door Station	Indoor/Outdoor	17 1/4	12	3 1/8	**36TP62**
Audio Sub Master Station	Mounting Hardware	Indoor	1	6 5/16	3 9/16	**36TR22**
Video Door Station		Indoor/Outdoor	6 13/16	3 1/8	1 1/16	**36TR38**
Video Master Station		Indoor/Outdoor	1 1/4	7 1/16	5 5/16	**36TP74**
Video Sub Master Station		Indoor	1 1/4	7 1/16	5 5/16	**36TR04**
JO Series						
Video Intercom Station Kit	JO-1MD Video Intercom Master Station, JO-DA Surface Mount ABS Plastic Door Station	Indoor/Outdoor	17	10 1/2	3/12	**36TP99**
Video Expansion Station	Mounting Hardware	Indoor	2	10	6	**36TR12**
KB Series						
Video Door Station	Mounting Hardware	Indoor/Outdoor	2 1/2	5	8 13/16	**36TP77**
Video Master Station		Indoor/Outdoor	4 5/16	8	4 5/16	**36TP60**
Video Sub Master Station		Indoor/Outdoor	4 5/16	8	4 5/16	**36TP64**
LE Series						
Call Audio Master Station	Mounting Hardware	Indoor	2 3/16	8 1/8	7 1/2	**36TR32**



No. 36TP62

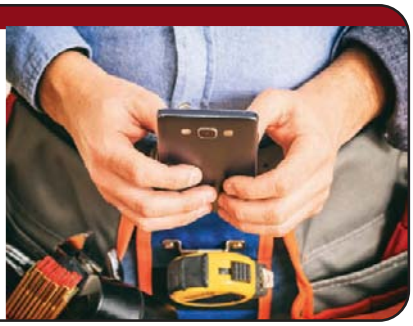


DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.





Wall
No. H7432



Wall
No. 30PK01

GA GRAINGER APPROVED

Standard Telephones

- ADA-Compliant volume control
- Include handset and line cords

Single-line phones are made of durable plastic and are designed to operate in the most demanding work environments.

Wall-Mount—Each has a bell ringer for use in noisy areas.

Emergency Telephones—Red emergency color identifies usage and attracts attention during emergency or security situations. Features faceplate area for emergency instructions.

Voicemail	Ringer	▶CHOOSE: Color	Item No.
Wall-Mount			
Message Indicator	Yes	Beige, Black	**H7431**
No	Yes	Beige, Black	**H7432**
Emergency Telephone			
No	Yes	Red	**30PK01**



GA GRAINGER APPROVED

Disposable Healthcare Telephone

- 95dB ringer

Features volume control, voicemail and call waiting. Cream color. Include handset, base, coil cord, and line cords.

Description	Mfr. Model	Item No.
Analog	41T-5 R (WH)	**45CT89**



No. 45CU05



No. 45CU11



No. 45CU21

good, better... bittel



No. 45CT93

Hospitality Telephones

- 95 dB ringer
- Speakerphone
- Analog

Speakerphone	No. of Lines	Color	Mfr. Model	Item No.
Desk Mount				
Yes	1	Black	UNOAS-10BA	**45CU03**
Yes	1	Black	UNOAS-5BA	**45CU04**
Yes	1	Black	UNOM4-B/UNOAS-10BA	**45CU05**
Yes	1	Black	UNOM4-B/UNOAS-5BA	**45CU06**
Yes	1	Black	CGR-UNOV-MCC/UNOAS-10BA	**45CU07**
Yes	1	Black	CGR-UNOV-MCC/UNOAS-5BA	**45CU08**
Yes	1	Black	UNOM5S-10B	**45CU11**
Yes	1	Black	UNOM5S-5B	**45CU12**
Yes	1	Black	62S-10B	**45CU21**
Yes	1	Black	62S-5B	**45CU22**
Yes	1	Ivory	62S-10I	**45CU23**
Yes	1	Black	62S-10B/CGR-NEO-MCC	**45CU29**
Yes	2	Black	62S2-10B	**45CU25**
Yes	2	Ivory	62S2-5I	**45CU28**
Wall or Desk Mount				
No	1	Cream	41T-5 MW (AS)	**45CT92**
No	1	Black	41T-5 MW (BK)	**45CT93**
Yes	1	Cream	123S-C	**45CT94**
Yes	1	Black	123S-B	**45CT95**
No	1	Cream	38TS10-C	**45CT96**
Yes	1	Black	38TSD10S-B	**45CT98**
Yes	2	Black	38TSDT10-B	**45CU01**
Yes	2	Cream	38TSDT10-C	**45CU02**



No. 41D240



No. 29WJ96



No. 3TML4

Amplified Telephones

ClearSounds

TELEPHONES

Note: Use of Caller ID requires subscription to a Caller ID service.

CSC600 Series—Have UltraClear™ sound clarifying technology. Feature missed call indicator and Caller ID/Call Waiting with 99-name/number Caller ID history.

Hearing-Impaired Guest Room Phone Sets—Make sure your facility is ADA compliant to ensure your deaf or hearing-impaired guests are notified in an emergency.

If your property does not include audible and visual detectors, use Kit No. 5KZF8. Includes display TTY, telephone ring signaler, ClearSounds clock with telephone signaler, bed shaker, telephone in-line amplifier, door knock alert, and a visual strobe smoke detector.

If your property has smoke detectors that are both audible and visual, use Kit No. 41D240. Includes portable in-line telephone amplifier, Y-jack for phone attachment, digital TTY, door knocker, vibrating alarm clock with telephone signaler, (2) AC adapters, 9V battery, (6) AA rechargeable batteries, vibrating pad, and standard hotel soft case.

For main building fire alarms, if your current system does not signal visually in your hearing-impaired rooms, you must use a signaling device. Kit No. 29WJ96 is triggered by a continuous T3-T4 fire alarm sound and transfers the signal to the main flashing base. Includes base alerting device, bed shaker, door knock alert, telephone line cord, and fire alarm transmitter.

ACCESSORIES

Amplified Telephone Ring Signaler—Plastic signaler features bright LED light and is for use with any analog telephone line. Includes AC power adapter, telephone line cord, and instruction manual.

Description	Color	Mfr. Model	Item No.
Hearing-Impaired Guest Room Phone Sets			
Hospital & Hotel Room	Black	HTSET3	**5KZF8**
Hotel Room	Black	HTSET4B	**41D240**
Hospital	White	CA360	**29WJ96**
Accessories			
Amplified Telephone Ring Signaler	Black	CS-CR200	**22M767**
Portable Telephone Amplifier	White	IL95W	**3TML6**

Description	Display Dial	New Call Indicator	Message Indicator	Caller ID/ Call Waiting	Talking Caller ID	Call History	Color	Mfr. Model	Item No.
CSC600	●	●	●	●	●	●	White	CSC600W	**3TML4**



Megaphones

GA GRAINGER APPROVED

Feature volume control and trigger talk switch. No. 20W323 handheld unit includes a siren mode. No. 20W324 features record/playback capabilities, strobe light, and whistle and siren modes. No. 3YMK8 features high-impact, self-extinguishing plastic construction and is suitable for hazardous environments.

Key	Description	Operating Range	L (in.)	Mfr. Model	Brand	Item No.
Megaphones with Built-In Microphone						
A	45W, Shoulder with Siren Mode, 5.5 lb. net wt.	½ mile	21	3YMN2	GA	**3YMN2**
B	25W, Handheld Detachable Mic with Talk, Whistle, Siren Modes and Battery Indicator Lights. 2.5lb net wt.	1 mile	14½	S602MR	AmpliVox	**36CJ43**
C	16W, Handheld with Siren Mode, 4.75 lb. net wt.	800 ft.	14¼	ER370	Speco Technologies	**49N882**
D	25W, Handheld with Siren Mode, 2.75 lb. net wt.	1 mile	14	3YMN1	GA	**3YMN1**
E	25W, Handheld with Foghorn, 3.96 lb. net wt.	⅜ mile	13	4PD84	GA	**4PD84**
Standard Handheld Megaphones						
F	20W, Handheld with Talk, Whistle, Siren Modes and Battery Indicator Lights, 1.5 lb net wt.	⅝ mile	12	S601R	AmpliVox	**36CJ39**
G	10W, Handheld with Talk and Siren Modes, Shoulder Strap, 1.2 lb net wt.	100 yd.	10	S600R	AmpliVox	**20W323**
G	10W, Handheld with Rechargeable Battery, Talk and Siren Modes, Shoulder Strap, 1.2 lb net wt.	100 yd.	10	SB600R	AmpliVox	**36CJ38**
H	25W, Handheld with Talk, Whistle, and Siren Modes, 2.0 lb. net wt.	1 mile	14¼	3YML9	GA	**3YML9**
H	20W, Handheld with Talk, Whistle, Siren Modes, Rechargeable Battery and Battery Indicator Lights, 1.5 lb net wt.	⅝ mile	12	SB601R	AmpliVox	**36CJ40**
I	15W, Handheld with Talk, Whistle, and Siren Modes, 1.5 lb. net wt.	⅝ mile	12	3YML8	GA	**3YML8**
I	25W, Handheld with Talk, Whistle, Siren Modes and Battery Indicator Lights, 2.0 lb net wt.	1 mile	14	S602R	AmpliVox	**36CJ41**
I	25W, Handheld with Rechargeable Battery, Talk, Whistle, Siren Modes and Battery Indicator Lights, 2.0 lb net wt.	1 mile	14	SB602R	AmpliVox	**36CJ42**
J	15W, Handheld with Foghorn, 3.52 lb. net wt.	1/10 mile	13.3	4H973	GA	**4H973**
K	10W, Handheld with Talk, Whistle, Siren Modes, and Strobe Light, 1.2 lb net wt.	100 yd.	10½	S604	AmpliVox	**20W324**
L	16W, Voice Gun®, 3.0 lb. net wt.	1320 ft.	10⅛	A12SA	Federal Signal	**3YMK8**
M	25W, Handheld with Talk, Siren and Whistle Modes, Detachable Mic, Adjustable Shoulder Strap, 2.5 lb net wt.	1 mile	14	SB602MR	AmpliVox	**36CJ44**
Storage Case						
N	Megaphone Storage Case For Half-Mile Hailer or S1260, S1262, S1264, S1265 Extension Horns	—	—	S1940	AmpliVox	**3YYZ1**

Go Beyond Normal Limits...
RITRON® WIRELESS SOLUTIONS

Wireless PA Systems

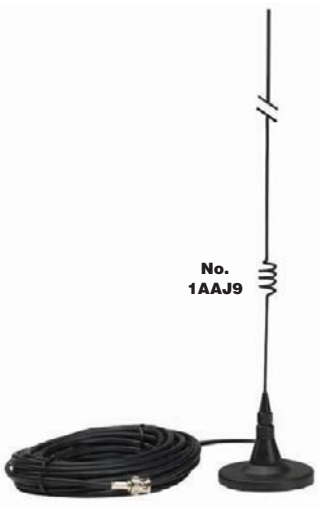
- 85dB max. at 50 ft.
- Works with 2 way-radios

Eliminate running wire, and put PA communication right where you need it. Can be programmed with custom frequencies to work with existing 2 way-radios in the same frequency band (PC programmer optional). Additional features include adjustable volume, message repeat function, and visual alert relay for optional strobe light. Includes compatible portable 2 way-radio, radio receiver, PA horn speaker with 25-ft. cable, flex antenna, mounting bracket, and a 110V AC adapter.

Description	Mfr. Model	Item No.
Wireless PA Systems		
VHF	LM-V150System	**1AAK1**
UHF	LM-U450System	**1AAK2**
Accessory		
Magnetic Mount Antenna	RAM-1545	**1AAJ9**



No. 1AAK2



No. 1AAJ9

PA Systems and Accessories

AmpliVox Portable Sound Systems



No. 1YVX6





No. 36D054

SMALL AREA PERSONAL

BeltBlaster® and BeltBlaster Pro®

Battery-powered mini PA systems can be worn like a belt. Weigh only 2 lb. Systems include headset and lapel microphones and volume control. For indoor or outdoor use. 5W sound output is designed to reach audiences of up to 50 in rooms up to 400 sq. ft. No. 1YVX6 is powered by 6 AA alkaline batteries (sold separately). No. 2GXA8 includes carrying case, 6 rechargeable NiMH batteries, and an AC adapter for recharging batteries.

Mity-Lite

Portable 35W system is for audiences of up to 250 in rooms up to 1500 sq. ft. Line-in for CD, MP3, DVD, projector, and laptop. Plastic enclosure for durability. Ergonomic handle for comfort. For indoor and outdoor use. Includes UHF wireless handheld microphone, shoulder strap, and carrying case.

MID-RANGE PORTABLE

Voice Carrier Kits

Wireless systems reach audiences of up to 1000 in rooms up to 10,000 sq. ft. 50W amplifier has built-in UHF wireless receiver with 3 mic inputs and 2 speaker jacks. Include 3 tripods and 2 dual-module Jensen speakers with 40-ft. cables to connect to amp. All components fit into included carrying case with wheels and luggage handle. Designed to run on AC, Rechargeable 15V Ni-Cd Battery Pack No. 1YVZ2 (which requires No. 1YVZ1, available separately), or D-cell batteries for up to 200 hr. AC Adapter No. 1YVZ1, batteries, and Ni-Cd Battery Pack No. 1YVZ2, sold separately.

WIDE-RANGE PORTABLE HORNS

Half-Mile Hailer

Loudspeaker PA covers the length of a football field. Portable and weather-resistant for outdoor use. Use indoors in noisy manufacturing facilities. 50W amplifier with 3 mic inputs, line in for CD. Includes microphone. Designed to run on AC Adapter No. 1YVZ1, Rechargeable Ni-Cd Battery Pack No. 1YVZ2, or 10 D-cell alkaline batteries for up to 200 hr. (sold separately).

Radio Hailers with Transceivers

An excellent addition to mobile command centers for responding to and communicating general information and alerts in emergency situations. Hailers have a range of up to 1 mile and include amplifier, radio bracket, speaker, and 2 MURS radios. Designed to run on AC adapter No. 1YVZ1, Rechargeable Ni-Cad Battery Pack No. 1YVZ2, or for up to 200 hr. on 10 D-cell alkaline batteries (sold separately).

Description	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Small Area Personal					
BeltBlaster®	13½	11	4½	S206	**1YVX6**
BeltBlaster Pro®	11	11	11	S207	**2GXA8**
Mity-Vox®	11	11	11	SW212	**2GXA9**
Mid-Range Portable					
Powered Speaker Voice Carrier Kit	30	17	12	SW232	**31HG60**
Deluxe Wireless Speaker Hailer Kit	18	32	12	SW642	**31HG61**
Deluxe Wireless Quad Horn Hailer Kit	18	32	12	SW662	**31HG62**
Wireless Speaker Hailer Kit	18	32	12	SW640	**31HG63**
Wireless Quad Horn Hailer Kit	18	32	12	SW660	**31HG64**
Deluxe Wireless Handheld Hailer Kit	18	32	12	SW637	**31HG66**
Deluxe Wireless Hailer Kit	18	32	12	SW632	**31HG67**
Wireless Handheld Hailer Kit	18	32	12	SW635	**31HG69**
Voice Carrier Kit, Wired Speakers and Wireless Mics	31	18	13	SW230A	**5KDH7**
Titan Wireless PA - Lapel Mic	24	20	14	SW800L	**31HG58**
Wide-Range Portable Horns					
Half-Mile Hailer, Wired Mic	11	11	8	S610A	**1YVX7**
Half-Mile Hailer, Wireless UHF Headset, Lapel Mic, and Transmitter	11	11	8	SW610A	**1YVX8**
Half-Mile Hailer, Wireless UHF Handheld Mic with Built-In Transmitter	17	11	14	SW615A	**20W331**
Half-Mile Hailer Kit, Wireless with Lapel Mic and Headset	18	12	32	SW630	**20W332**

Description	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Radio Hailer Wireless Headset, Lapel Mic and Transmitters	14	12	10	SW6200	**36D054**
Radio Hailer with Two Transceivers, Wireless Headset, Lapel Mic and Transmitters	14	12	10	SW6210	**36D055**
Radio Hailer with Two Transceivers, Wireless Headset, Lapel Mic and Transmitters, Extra Speaker, Tripod, and Carrying Case	14	12	10	SW6220	**36D056**
Wireless Mobile Public Address System Includes Amplifier, (3) Wired Microphone, (4) Speaker, DC Car Adapter, Mounting Assembly	18	32	12	SW314	**31HG68**
Vehicle Mount					
Quad Sound Cruiser	10	27	27	S314	**20W322**
Accessories					
15VAC Adapter	4	2	1	S1460	**1YVZ1**
Rechargeable Battery Pack, 15V Ni-Cd	6	2	2	S1465	**1YVZ2**
Heavy-Duty Tripod	47	5	5	S1080	**20W316**
Heavy-Duty Tripod Carrying Case	48	6	6	S1920	**20W318**
Compact Tripod	27	5	5	S1090	**20W317**
Compact Tripod Carrying Case	15	8	16	S1950	**20W320**
Universal Soft Carrying Case	14	12	32	S1960	**20W321**
Universal Soft Carrying Case with Tripod Case	17	12	32	S1930	**20W319**
Amplified Speaker, 50W, 15V	17	6	4	SS1234	**31HG75**
Speaker, VHF, Plastic, 50W, 8 ohm	17	6	3.5	S1234	**31HG78**
Speaker, VHF, Plastic, 50W, 8 ohm	7	10.5	6.5	S1230	**31HG79**
Amplified Wireless Speaker, 50W	17	3	6	SW1234	**31HG71**



All-Weather No. G4034



Rock Speaker No. G4033

speco technologies

Outdoor Speakers

ALL-WEATHER

Feature mesh aluminum grilles for protection. Adjustable brackets allow multiple mounting options.

ROCK SPEAKER

Rock design blends seamlessly into any outdoor environment.

Watt (RMS)	Max. Wattage	Sensitivity (dB)	Frequency Response	Woofer Dia. (in.)	Tweeter Dia. (in.)	Overall H (in.)	Overall W (in.)	Overall Length (in.)	▶CHOOSE: Encl. Color	Item No.
All-Weather (8 ohm), Polypropylene Woofer, Silk Tweeter, Pkg. of 2										
50	100	90 1w/1m	60Hz to 20kHz	6½	1	11	7	6¾	Black	**G4037**
40	80	88 1 w/1m	75Hz to 20kHz	5¼	¾	9	6	6¼	Black	**G4036**
50	100	90 1w/1m	60Hz to 20kHz	6½	1	11	7	6¾	Black, White	**G4035**
40	80	88 1 w/1m	75Hz to 20kHz	5¼	¾	9	6	6¼	Black, White	**G4034**
All-Weather Elite with Volume Control (8 ohm) Polypropylene Woofer, Silk Dome Tweeter, Pkg. of 2										
25	40	84	75Hz-20kHz	4	¾	9½	6	6½	Black	**36H460**
25	40	84	75Hz-20kHz	4	¾	9½	6	6½	White	**36H462**
All-Weather 3-Way Speaker w/Transformer (8 ohm), Polypropylene Tweeter, Pkg. of 1										
—	50	—	55-20kHz	4	1	7¼	4½	4⅖	Black	**36H465**
—	50	—	55-20kHz	4	1	7¼	4½	4⅖	White	**36H466**
Rock Speakers, All-Weather (8 ohm), Mica Woofer, PEI Tweeter, Pkg. of 1										
30	60	—	70Hz to 20kHz	6½	½	13⅜"	12⅝"	11 13⁄16"	Brown, Gray	**G4033**



Gooseneck



Handheld

Microphones

speco technologies

Wired—No. 3ZJE7 gooseneck features push-to-talk switch, 500-ohm impedance, and mounting base. No. 2KJR6 handheld comes with batteries and 20-ft. XLR Mic cables.

Wireless—700 preprogrammed frequencies for interference-free channels of communication for roaming distances in excess of 200 ft. Feature auto channel scan, integrating charging, balanced XLR connector, and unbalanced ¼" jack audio output.

Description	Connector Type	Mfr. Model	Item No.
Wired			
Gooseneck Microphone	5-Wire	MGS1	**3ZJE7**
Handheld Microphone	XLR Male Connector	MCHH100A	**2KJR6**
Desktop Conference & Paging Microphone	XLR Male Connector	MCDT300A	**36H479**
Wireless			
Handheld UHF Microphone	—	MUHFHH	**5KZG5**
Lapel UHF Microphone	—	MUHFLP	**5KZG6**

speco technologies | AMPLIVOX Portable Sound Systems

Wall-Mount Speakers

Installation requires no cutting into ceiling or wall.

70/25V Steel Enclosure—Powder-coated grille. No. 2EUK8 angles downward.

70V Wood Enclosure—Walnut-grained wood construction has black cloth grille.



No. 2EUK7



No. 23Y702

Watt (RMS)	Max. Wattage	Encl. Color	Sensitivity (dB)	Frequency Response	Woofer Dia. (in.)	Woofer Composition	Overall H (in.)	Overall W (in.)	Overall L (in.)	Brand	Mfr. Model	Item No.
70/25V Steel Enclosure												
12	12	White	96	65Hz to 17kHz	8	Molded Paper Fiber	4⅛	11⅜	11⅜	Quam-Nichols	System 1	**2EUK7**
12	12	White	96	65Hz to 17kHz	8	Molded Paper Fiber	5⁵⁄₁₆	11⅜	11⅜	Quam-Nichols	System 3VC	**2EUK8**
70V Wood Enclosure												
10	16	Brown	93 ±3	85Hz to 20kHz	8	Paper	10	10	10	Speco Technologies	WB86T	**23Y702**
15	15	White	92	65 to 17 kHz	8	Fiber	5⅜	11⅝	11⅝	Quam-Nichols	SYSTEM 2	**20KA83**
30	60	Black	92 ±2	95Hz to 20,000Hz	5	Polypropylene	5½	8¼	8¼	Speco Technologies	SP30PTB	**5KZG2**
All-Weather (8 ohm and 70V), Polypropylene/Butyl Woofer, Mylar® Tweeter, Pkg. of 2												
20	20	Black	89 SPL 1W/1M	80 Hz to 20 KHz	4	Polypropylene/Butyl	10¼	6¾	6¾	Quam-Nichols	FM4X1/70	**6VEY6**
20	20	White	89 SPL 1W/1M	80 Hz to 20 KHz	4	Polypropylene/Butyl	10¼	6¾	6¾	Quam-Nichols	FM4X1/70	**6VEY7**



A.



B.



C.



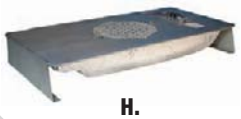
D.



E.



G.



H.

In-Ceiling and In-Wall Speakers

speco technologies

For music or paging. Mounting brackets are required and are sold separately.

A.—Includes fire-retardant metal back can, quick-snap terminal connections, 70V transformer dial, mounting brackets, metal safety loop, and ported bass.

B.—Plastic and flame-retardant back-box enclosure offers extra protection. Features up to 9 full-range wattage tap settings.

C., D., E., G., H.—Feature 5 built-in wattage tap settings, except Nos. 36H467 to 36H470 have 6 built-in wattage tap settings.

Key	Watt (RMS)	Max. Wattage	Sensitivity (dB)	Frequency Response	Woofer Dia. (in.)	Woofer Composition	Tweeter Dia. (in.)	Tweeter Composition	Overall H (in.)	Overall W (in.)	Overall Length (in.)	Mfr. Model	Item No.	Pkg. Qty.
70/25V														
B	40	80	88	34Hz to 20,000Hz	6½	Polypropylene	1	Mylar®	7½	11	11	SP6MAT	**2KJX9**	1
H	30	60	87	57Hz to 20,000Hz	5¼	Polypropylene	1	Mylar®	6	9½	9½	SP5MAT	**2KJX8**	1
E	10	15	91 ±3	90Hz–20kHz	8	Treated Paper	—	—	3⅛	10¾	10¾	SPG86T	**36H467**	1
E	10	15	91 ±3	90Hz–20kHz	8	Treated Paper	—	—	3⅛	10¾	10¾	SPG86TC	**36H468**	1
E	10	15	91 ±3	120Hz–20kHz	6	Treated Paper	—	—	3	9	9	SPG66T	**36H469**	1
E	10	15	91 ±3	120Hz–20kHz	6	Treated Paper	—	—	3	9	9	SPG66TC	**36H470**	1
G	10	15		85Hz to 20,000Hz	8	Polypropylene	—	—	3½	13	13	G86TCG	**2KJN9**	1
G	10	15		85Hz to 20,000Hz	8	Polypropylene	—	—	3½	13	13	G86TG	**2KJP1**	1
70V														
A	40	80	8	60Hz to 20,000Hz	6½	Polypropylene Woofer	¾	Silk	7¾	10¼	10¼	SP6NXCTUL	**5KZG3**	2
8 ohm														
D	30	60		63Hz to 21,000Hz	6½	Mineral Polymer	½	Titanium	7½	9	9	SPCBC6	**2KJW8**	2
C	40	80		45Hz to 21,000Hz	8	Mineral Polymer	½	Titanium	8	10¾	10¾	SPCBC8	**2KJW9**	2
—	10	15	90	85Hz to 20kHz	8	Paper	8	Paper	3½	24	24	G86TG2X2C	**45MK48**	1
—	10	15	90	85Hz to 20kHz	8	Paper	8	Paper	3½	13	13	G86KITPR	**45MK49**	1
—	10	15	90	85Hz to 20kHz	8	Paper	8	Paper	3½	13	13	G86KITPRC	**45MK50**	1

For Use With	Overall H (in.)	Overall W (in.)	Overall Length (in.)	Item No.
Speaker Ceiling Supports				
Speakers 2KJN9, 2KJP1	—	23¾	14⅜	**36A981**
Speaker Ceiling Back Boxes, Pkg. of 1				
2KJP1	4½	11¾	11¾	**2KJP2**

Quick-Install Speaker Assemblies

speco technologies

- 70/25V pigtail leads

Replace a standard 24" x 24" ceiling tile. No. 5MWG0 includes volume control. No. 2EUL2 comes with 24" cross piece to fit between grille and remaining half of a trimmed ceiling tile.



A.



B.

Key	Watt (RMS)	Max. Wattage	Sensitivity (dB)	Frequency Response	Woofer Dia. (in.)	Woofer Composition	Overall H (in.)	Overall W (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Lay-In Ceiling Mount (Tile Replacement)												
A	20	30	91	60Hz to 20,000Hz	6	Polypropylene/Butyl	3⁷⁄₁₆	23¾	23¾	Quam-Nichols	System 19	**4GFG7**
A	12	12	96	65Hz to 17,000Hz	8	Molded Paper Fiber	3⁷⁄₁₆	23¾	23¾	Quam-Nichols	System 12	**2EUK4**
A	12	12	96	65Hz to 17,000Hz	8	Molded Paper Fiber	3⁷⁄₁₆	23¾	23¾	Quam-Nichols	SYSTEM 12/VC	**5MWG0**
A	12	12	96	65Hz to 17,000Hz	8	Molded Paper Fiber	3¹³⁄₁₆	11¾	23¾	Quam-Nichols	System 5	**2EUL2**
B	30	60	90	50Hz to 20,000Hz	8	Polypropylene	23	23	6	Speco Technologies	SPCT8T	**2KJY1**



No. 3CWT8



No. 3CWU5

Projection Horn Casing and Driver

speco technologies

Combine casing with universal driver to create custom projection horns. Sold separately.

PROJECTION HORN CASING

Weatherproof, for indoor or outdoor use. Includes mounting brackets and hardware.

UNIVERSAL RMS DRIVER

Features built-in line transformers.

Watt (RMS)	Max. Wattage	Sensitivity (dB)	Frequency Response	Overall H (in.)	Overall W (in.)	Overall Length (in.)	Mfr. Model	Item No.
Projection Horn Casing								
				20	20	20¼	SRH20	**3CWT8**
Universal RMS Driver (70V)								
80	100	112	300 to 5000Hz	7	3¼		SRD80T	**3CWU5**



ABS Plastic
No. 3CWU8



Aluminum
No. 2KJW2



ABS Plastic
No. 3CWX2



Aluminum
No. 2KJW3

Horn Speakers

EDWARDS SIGNALING

GA GRAINGER APPROVED

speco technologies

Designed for telephone and microphone paging in loud environments, both indoors and out. Mounting brackets and hardware included.

Explosionproof Audible Signal—Multitone horn has a 55-tone capability. Has internal volume control.

Hazardous Location Multitone Horn—Multitone horn has a 55-tone capability. For use in dusty and hazardous areas where a distinctive alert is required. For Division 2 locations.

8 ohms—No. 36H458 is an amplified weatherproof P.A. speaker; designed for applications that can benefit by not having a dedicated amplifier.

Additional Transformers—Work with most brands of horn speakers. Flange mount.

Impedance (ohms)	Sensitivity (dB)	Max. Wattage	Watt (RMS)	Frequency Response	Overall H (in.)	H (in.)	Overall W (in.)	W (in.)	Overall Length (in.)	Encl. Material	Brand	Mfr. Model	Item No.
Multi-Tone Horn - Explosionproof Audible Signals													
—	90	—		—	11¼	11¼	11¼	—	18⅓	Cast Aluminum	Edwards Signaling	5533MD-AW	**13T112**
Multi-Tone Horn - Hazardous Location, 24VDC													
—	110	—		—	15	15	8⅞	—	8	Cast Zinc	Edwards Signaling	5530MD-24AW	**13T111**
Paging Speaker													
8	107	40	30	400Hz to 6kHz	9 1⁄16	—	6 5⁄16	—	11	ABS Plastic	GA	3AXC9	**3AXC9**
8	107	25	15	400Hz to 6kHz	9 1⁄16	—	6 5⁄16	—	11	ABS Plastic	GA	3AXC8	**3AXC8**
PA Horn													
8	120	75	40	130 to 15,000Hz	15	—	15	—	13	Aluminum	Speco Technologies	SPC30	**3CWX3**
8	105	15	10	250 to 15,000Hz	6	—	6	—	6	Aluminum	Speco Technologies	SPC10	**3CWU7**
3-16	—	20		500Hz~5kHz	—	—	—	—	—	—	Speco Technologies	ASPC20	**36H458**
8	110	30	15	200 to 15,000Hz	4	—	6	—	8	ABS Plastic	Speco Technologies	SPC12RP	**3CWX1**
8	105	15	10	300 to 15,000Hz	5	—	5	—	5	ABS Plastic	Speco Technologies	SPC5P	**3CWU8**
8	120	32	15	250 to 15,000Hz	11	—	6½	—	13	ABS Plastic	Speco Technologies	SPC40RT	**3CWX2**
PA Weatherproof Speaker													
4	—	—	10	—	—	—	—	6	—	—	Speco Technologies	SPC104	**49N890**
8	—	—	30	—	—	4⅝	—	7¾	—	—	Speco Technologies	SPC15RP	**38L978**
8	—	—	40	—	—	11	—	6	—	—	Speco Technologies	SPC40RP	**38L979**
8	—	—	15	—	—	5	—	5	—	—	Speco Technologies	SPC8	**49CA08**
8	—	—	10	—	—	5	—	7	—	—	Speco Technologies	SPC10RT	**49CA09**
8	—	—	10	—	—	6½	—	6½	—	—	Speco Technologies	SPC10T	**49CA10**
8	—	—	15	—	—	6¼	—	8 51⁄64	—	—	Speco Technologies	SPC15RT	**49CA11**
8	—	—	30	—	—	10½	—	10½	—	—	Speco Technologies	SPC30T	**49CA12**
8	110	25	15	200Hz to 15,000Hz	8	—	8	—	8	Aluminum	Speco Technologies	SPC15	**2KJW2**
8	110	25	15	200Hz to 15kHz	5	—	8	—	8	Aluminum	Speco Technologies	SPC15R	**2KJW3**
8	105	15	6	300Hz to 15kHz	5¼	—	5¼	—	6	ABS Plastic	Speco Technologies	SPC6P	**2KJW6**
8	105	30	15	450Hz to 15,000Hz	8	—	8	—	9	Aluminum	Speco Technologies	SPC15T	**2KJW4**
8	120	30	20	250Hz to 16,000Hz	8	—	11	—	10¼	ABS Plastic	Speco Technologies	SPC30RT	**2KJW5**
Speaker													
8	—	—	80	—	—	5¼	—	9¼	—	—	Speco Technologies	SP5NXCTUL	**49N875**

Description	Power Taps @ 75V	Power Taps @ 25V	Item No.
Additional Transformers			
Transformer 25V	—	10W/5W/2.5W/1.25W/0.625.W	**2KJP3**
Transformer 70V	10W\5W\2.5W\1.25W\0.625W	—	**2KJP4**



No. 2KJU4



No. 20W325



No. 2KJV1

Amplifiers and Tuner

speco technologies

AMPLIVOX PORTABLE SOUND SYSTEMS

PA Amplifiers—Provide power to paging and music address systems. On-hold feature assures customers hear supplied music or dialogue. Feature 600-ohm telephone connection, auto-mute background music during paging, and separate bass and treble controls.

Multimedia Stereo Amplifier—Features 16-channel UHF wireless frequencies. Condenser, dynamic, and wireless mics can be used simultaneously. Tape record or provide a mixed output to the room's built-in sound system that you control. Auxiliary input jack lets you make your own computer or video projector programs heard by connecting them to the stereo line input with separate volume and tone control or add prerecorded music.

Digital AM/FM Tuner—Works with most amplifiers to play radio broadcasts. Includes AM/FM antenna.

Output Watts	Inputs	Output	Includes	Brand	Mfr. Model	Item No.
PA Amplifiers						
30	2 Mics, Auxiliary, and 1 Telephone Paging	70/25V	Music On Hold Feature with Separate Level Control	Speco	PBM30	**2KJU4**
15	2 Mics and 1 Auxiliary	4/8/16 Ohms, 70/25V	—	Speco	PVL15A	**36H471**
30	2 Mics and 1 Auxiliary	4/8/16 Ohms, 70/25V	—	Speco	PVL30A	**36H472**
PA Amplifier with Multiple Zones						
260	5 XLR Mics, 3 Auxiliary, 1 EQ/ Mix, 1 Telephone Paging	4/8/16 Ohms, 70/25V	Music On Hold Feature with Separate Level Control	Speco	PL260A	**2KJU6**
Multimedia Stereo Amplifier						
50	3 Mics, 1 Auxline In, 1 Auxline Out	2 Speakers, 1 Line Level Out 3.5mm	16 Channel UHF Wireless Mic Receiver, Separate Tone and Volume Controls for CD/MP3/Projector/IPod	AmpliVox	SW805A	**31HG74**
50	3 Mics, 1 Auxline In, 1 Auxline Out	2 Speakers, 1 Line Level Out 3.5mm	Separate Tone and Volume Controls for CD/MP3/Projector/IPod	AmpliVox	S805A	**20W325**
Digital AM/FM Tuner						
1	2 Mics and 1 Auxiliary	Mono	30 Presets, Rack Mount Kit, and AM/FM Antenna	Speco	PFA	**2KJV1**


No. 2UY32


No. 5CFN3


No. 2UY36


No. 5CFN9


No. 14F256


No. 5CFN8

Binoculars

▪ Fogproof

Description	Magnification/ Objective Lens	Field of View	Prism Type	Tripod Mountable	L (in.)	W (in.)	H (in.)	Weight	Brand	Item No.
Compact										
General Binocular, Aluminum w/Rubber Armor	10x	302 ft. @ 1000 yd.	Roof	No	4 7/16	1 1/2	4 1/2	0.5 oz.	Barska	**49U592**
Super-Compact, Black	8 x 21	387 ft. @ 1000 yd.	Roof	No	3 5/8	2 7/16	1 3/8	5.6 oz.	Northwest	**2UY30**
Super-Compact Aluminum Body with Wide Angle, Black/Aluminum	8 x 25	417 ft. @ 1000 yd.	Roof	No	4	2 1/2	2 5/16	9.6 oz.	Northwest	**2UY33**
Compact, Black	10 x 25	303 ft. @ 1000 yd.	Roof	No	4 1/2	2 7/8	1 3/8	8 oz.	Northwest	**2UY31**
Compact Binocular, Fully Multi-Coated	10x	302 ft. @ 1000 yd.	Roof	No	4 29/32	4 7/64	1 13/16	10.4 oz.	Steiner Optics	**40CF38**
Comfort Compact										
Compact, Black/Silver	10 x 25	315 ft. @ 1000 yd.	Porro	No	4 1/8	3 15/16	2 9/16	8 oz.	Northwest	**2UY32**
Full-Size										
Full-Size Zoom, Black	7 to 15 x 35	305 ft. @ 1000 yd.	Porro	Yes	5 1/2	6 1/5	3 1/4	24 oz.	Northwest	**2UY38**
Full-Size Wide Angle, Black	7 x 35	488 ft. @ 1000 yd.	Porro	Yes	5 1/2	6 7/16	2 7/8	23.2 oz.	Northwest	**2UY37**
Full-Size, Black	7 x 50	367 ft. @ 1000 yd.	Porro	Yes	7 3/32	6 15/16	3 13/16	39.2 oz.	Northwest	**2UY36** *
Full-Size, Black/Gray	10 x 42	338 ft. @ 1000 yd.	Porro	Yes	5 5/8	6 7/16	2 7/8	21.6 oz.	Northwest	**2UY35**
Full-Size, Long Eye Relief, Black	10 x 50	305 ft. @ 1000 yd.	Porro	Yes	7 7/8	7 1/4	2 9/16	36.8 oz.	Northwest	**5CFN7** *
Marine										
Full-Size, Black	8 x 42	356 ft. @ 1000 yd.	Roof	No	6 1/3	5 1/2	2	27.2 oz.	Northwest	**5CFN3** *
Full-Size, Blue	7 x 50	380 ft. @ 1000 yd.	Porro	Yes	3 1/2	8 3/4	9 1/2	36 oz.	Bushnell	**14F256** *
Full-Size with Analog Compass and Reticle, Blue	7x50	350 ft. @ 1000 yd.	Porro	Yes	3 1/2	8 3/4	9 1/2	37 oz.	Bushnell	**8XAA9** *
Boating, Fully Coated	7x	350 ft. @ 1000 yd.	Porro	Yes	7 15/16	1 3/16	8 5/16	2.7 oz.	Barska	**49U562**
Marine, Fully Multi-Coated, Blue	7x	370 ft. @ 1000 yd.	Porro	Yes	5 1/2	8 7/64	3	36.3 oz.	Steiner Optics	**40CF32**
Marine with Compass, Fully Multi-Coated, Blue	7x	370 ft. @ 1000 yd.	Porro	Yes	5 1/2	8 7/64	3 13/16	39.2 oz.	Steiner Optics	**40CF33**
Military/Police										
Military, Fully Multi-Coated	7x	132 ft. @ 1000 yd.	Porro	Yes	7 15/16	4	6 5/16	47.2 oz.	Barska	**49U554**
Military, Fully Multi-Coated	7x	393 ft. @ 1000 yd.	Porro	Yes	7 3/4	8	4 1/4	54.4 oz.	Barska	**49U552**
Military, Fully Multi-Coated	8x	423 ft. @ 1000 yd.	Porro	Yes	6 1/2	2 1/4	4 3/4	21.6 oz.	Barska	**49U559**
Full-Size Commander, Fully Multi-Coated, Blue	7x	438 ft. @ 1000 yd.	Porro	Yes	6 13/64	8 7/64	3	38.4 oz.	Steiner Optics	**40CF34**
Full-Size Commander w/Compass, Fully Multi-Coated, Blue	7x	438 ft. @ 1000 yd.	Porro	Yes	6 13/64	8 7/64	3 13/16	42 oz.	Steiner Optics	**40CF35**
Full-Size Military, Spotting, Black	25 to 125 x 80	26 ft. @ 1000 yd.	Porro	Yes	13 25/64	8 2/3	3 15/16	120 oz.	Northwest	**5CFN8** *
Spotting Scopes with Tripods										
Monocular, Blue Green	20 to 80 x 70	24 ft. @ 1000 yd.	Porro	Yes	17 1/8	3 3/4	5 1/3	51.2 oz.	Northwest	**5CFN9** *

**** Waterproof.***


No. 40CF40


No. 54DX73


No. 45CL77

Rifle Scopes

Magnification	Objective Lens	Field of View @ 100 yd.	L	Illuminated	Brand	Item No.
1x	20mm	—	2.65"	Yes	Sig Sauer	**413X54**
1x	100mm	103 ft.	—	Yes	Bushnell	**54DX74**
1x	100mm	103 ft.	—	Yes	Bushnell	**54DX75**
2x to 10x	42mm	52 ft. @ 2x/ 10.5 ft. @ 10x	13.5"	No	Steiner Optics	**40CF40**
3x	25mm	103 ft.	4.6"	No	Bushnell	**54DX73**
3x to 12x	40mm	27.8 ft. @ 3x/ 6.8 ft. @ 12x	—	No	Barska	**45CL77**
3x to 15x	50mm	36 ft. @ 3x/ 7.5 ft. @ 15x	14.1"	No	Steiner Optics	**40CF41**
3x to 15x	50mm	36 ft. @ 3x/ 7.3 ft. @ 15x	13.1"	Yes	Steiner Optics	**40CF59**
4x to 20x	50mm	25.8 ft. @ 4x/ 5.5 ft. @ 20x	14.9"	No	Steiner Optics	**40CF43**
5x to 25x	56mm	21.5 ft. @ 5x/ 4.3 ft. @ 25x	16.6"	Yes	Steiner Optics	**40CF60**

Description	Brand	Item No.
Accessories		
Tripod	Northwest	**5CFP1**
Monopod	Northwest	**5CFP2**

Description	Brand	Item No.
Float Strap, Yellow, Nylon	Steiner Optics	**40CF70**
Float Strap, Yellow/Black, Nylon	Steiner Optics	**40CF71**
Float Strap, Yellow/Black, Nylon	Steiner Optics	**40CF72**
Binocular Harness, Black, Nylon	Steiner Optics	**40CF73**





TENSABARRIER®

Portable Post Crowd Control Barriers

These Post Barriers help guide customers and pedestrians, informing of entrances and exits to use. Barriers feature SlowRetract™ technology that ensures slow, safe belt retraction and locking belt ends to prevent accidental release. Extend belt when a barrier is needed; retract when not in use. Belt material is heavy-duty woven polyester. Belts are 2"W x 7½"L, except Wide Webbing Belt No. D0025 is 6"W.

Ordering Choices:

No Message Belts	Message Belts (Yellow)
▶CHOOSE: Black, Black/Yellow Diagonal Striped, Dark Blue, Dark Green, Red	▶CHOOSE: Caution Do Not Enter, Cleaning in Progress, Danger Keep Out, Out of Service
Wide Webbing No Message Belts	**Wide Webbing Message Belts (Red)**
▶CHOOSE: Black, Black/Yellow Diagonal Striped, Dark Blue, Dark Green, Red	▶CHOOSE: Authorized Access Only, No Entry

Base Type	▶CHOOSE: Post Finish	H (in.)	Base Dia. (in.)	Mfr. Model	NO MESSAGE BELT Item No.	WITH MESSAGE BELT Item No.
Indoor/Outdoor Portable Posts (PVC)						
Hexagonal	Black, White, Yellow, Red	38	19	886	D0032	D0033
Hexagonal	Yellow	38"	19	886	4GY50 †	—
Indoor Portable Posts						
Standard	Polished Chrome, Satin Chrome	38	14	890	D0009	D0011
Standard	Satin Stainless Steel	38	14	890	D0014	D0015
Basic	Black	38	—	890	6NW01 *	—
Basic	Black, Black Wrinkle, Gray, White, Yellow, Red, Blue, Green	38	14	890	D0007	—
Slim Profile	Black, Black Wrinkle, Gray, White, Yellow, Red, Blue, Green	38	14	890	—	D0008
Indoor Portable Posts - Double Belt						
Basic	Black, Black Wrinkle, Gray, White, Yellow, Red, Blue, Green	38	14	889	D0016	D0017
Indoor Portable Posts with Wide Webbing						
Basic	Black, White, Yellow, Red, Blue, Green	38	14	889	D0025	D0026
Popular Economy Posts (PVC)						
Basic	Red, Yellow, Black, White	38	14	875	D0029	D0031

** Black belt with white horizontal stripe. † Black belt with yellow diagonal stripe.*







Retracta-Belt® Crowd Control Barriers

Visiontron Corp.

Guide traffic, mark off hazards and restrict access indoors and outdoors with stanchions.

Retracta-Belt® are designed to withstand heavy traffic areas. Universal belt-end works with most stanchions and locks to help prevent accidental release. Feature a strong and slow EZ Back brake for added safety and have a built-in rubber floor protectors, ensuring scuff protection.

Retracta-Belt PRIME® are economically priced to accommodate lower budgets, medium traffic or less abusive environments. These Barrier Posts feature EVERstraight Technology®: an innovative, self-straightening base connection that helps keep the post upright and in place.

Description	Finish	Belt Length	Belt Color	Base Type	Base Dia.	Base Material	Item No.
Barrier Post with Belt Retracta-Belt							
Indoor	Yellow	10 ft.	Black and Yellow Diagonal Striped	Sloped	14"	Cast Iron	20YU42
Indoor	Black	10 ft.	Black	Sloped	14"	Cast Iron	31HH38
Indoor	Yellow	15 ft.	Black and Yellow Diagonal Striped	Sloped	14"	Cast Iron	20YU07
Indoor	Black	15 ft.	Black	Sloped	14"	Cast Iron	20YU10
Outdoor	Yellow	10 ft.	Black and Yellow Diagonal Striped	Square	15"	Recycled Rubber	20YU45
Outdoor	Yellow	15 ft.	Black and Yellow Diagonal Striped	Square	15"	Recycled Rubber	20YU27
Outdoor	Black	30 ft.	Red	Standard Heavy Weight	14"	Cast Iron	40CL77
Outdoor	Yellow	30 ft.	Black and Yellow Diagonal Striped	Standard Heavy Weight	14"	Cast Iron	20YT95
Retracta-Belt Prime							
Indoor	Black	10 ft.	Black	Sloped	14"	Steel and Concrete	40CK59
Indoor	Polished Stainless Steel	10 ft.	Black	Sloped	14"	Steel and Concrete	40CL06
Indoor	Black	10 ft.	Black/White	Sloped	14"	Steel and Concrete	40CL16
Indoor	Black	10 ft.	Red	Sloped	14"	Steel and Concrete	40CL17
Indoor	Satin Stainless Steel	10 ft.	Black	Sloped	14"	Steel and Concrete	40CL57
Indoor	Yellow	10 ft.	Black and Yellow Diagonal Striped	Sloped	14"	Steel and Concrete	40CL70
Barrier Post with Belt w/ "Caution - Do Not Enter" Message Retracta-Belt							
Indoor	Yellow	10 ft.	Yellow with Black Text	Sloped	14"	Cast Iron	20YU43
Indoor	Yellow	15 ft.	Yellow with Black Text	Sloped	14"	Cast Iron	20YU08
Outdoor	Yellow	15 ft.	Yellow with Black Text	Square	15"	Recycled Rubber	20YU28
Outdoor	Yellow	30 ft.	Yellow with Black Text	Standard Heavy Weight	14"	Cast Iron	20YT96

Finish	Belt Length	Belt Color	Mounting Style	Item No.
Wall Mounted Retractable Belt Barrier				
Yellow	10 ft.	Black and Yellow Diagonal Striped	Fixed Mounting Plate	20YU92
Black	10 ft.	Black		20YV03
Black	15 ft.	Yellow	Fixed/Removable Mounting Plate	20YU89
Yellow	20 ft.	Black and Yellow Diagonal Striped		20YU79
Wall Mounted Retractable Belt Barrier w/ "Caution - Do Not Enter" Message				
Black	15 ft.	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU87
Yellow	15 ft.	Yellow with Black Text		20YU91
Black	20 ft.	Yellow with Black Text		20YU76
Yellow	20 ft.	Yellow with Black Text		20YU80
Black	30 ft.	Yellow with Black Text		20YU36
Yellow	30 ft.	Yellow with Black Text		20YU40





Retractable Belt Barriers

TENSABARRIER®

Help restrict access and keep private areas off-limits to crowds. These belt barriers are for use with The Tensabarrier® Portable Post Crowd Control Barriers (listed above). Belt material is made from heavy-duty woven polyester and is 2"W.

▶**Please choose:** After selecting wall unit finish in ordering table below, specify belt choices indicated in chart below.

▶CHOOSE: Finish	Belt Length	Mfr. Model	NO MESSAGE BELT Item No.	WITH MESSAGE BELT Item No.
Belt Barrier — Includes Belt Receiver				
Black, Yellow, Red, Blue, Green	7½ ft.	896	D0087	D0088
	13 ft.	896	D0094	D0095
	15 ft.	897	D0103	D0104
Black, Yellow, Red	24 ft.	897	D0116	D0117
	30 ft.	897	D0129	D0131
Polished Chrome, Satin Chrome	7½ ft.	896	D0089	D0091
	13 ft.	896	D0096	D0097

No Message Belts	Message Belts (Yellow)
▶CHOOSE: Black, Blue, Green, Red, Yellow, Yellow/Black Chevron	▶CHOOSE: Caution Do Not Enter, Cleaning in Progress, Danger Keep Out, Out of Service

▶CHOOSE: Finish	Belt Length	Mfr. Model	NO MESSAGE BELT Item No.	WITH MESSAGE BELT Item No.
Polished Chrome	15 ft.	897	D0101	D0102
	24 ft.	897	D0114	D0115
	30 ft.	897	D0127	D0128
Belt Barrier — Include Hose Clamp Mounting and Wire Clip Belt End				
Black, Yellow, Red	15 ft.	897	D0109	D0111
	24 ft.	897	D0123	D0124
	30 ft.	897	D0136	D0137
Polished Chrome	15 ft.	897	D0107	D0108
	24 ft.	897	D0121	D0122
	30 ft.	897	D0134	D0135

Retractable Belt Barriers

Lavi Industries

- Choose belt color: Black, Red, Blue, Yellow/Black or Yellow

Retractable Belt Barriers are ideal for temporarily closing or blocking access to aisles, doorways and thresholds.

Description	▶CHOOSE: Belt Message	▶CHOOSE: Finish	Mounting Style	Belt Length	Item No.
Plastic Outdoor Post					
Tempest All-Weather Retractable-Belt Stanchion	None, Caution - Do Not Enter	Textured		12 ft.	**J5949** **J5951**
Aluminum Retractable-Belt Post					
Beltrac® 3000 Stanchion	None	Powder Coated, Satin Chrome, Polished Chrome		7 ft. 13 ft.	**J5955** **J5956**
Standard Wall-Mounted Barriers					
7 ft. Belt Length	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed	Wrinkle, Satin Aluminum	Wall Magnet	7 ft.	**J5938** **J5939**
13 ft. Belt Length		Textured, Satin Aluminum	Wall Magnet	13 ft.	**J5941** **J5942**
	Lane Closed	Wrinkle	Fixed Mount		
18 ft. Belt Length	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed	Wrinkle, Powder Coated	Wall	18 ft.	**J5943**
24 ft. Belt Length				24 ft.	**J5944**
65 ft. Belt Length	None	Satin Aluminum		65 ft.	**J5945**
Description	**▶CHOOSE: Belt Message**	**▶CHOOSE: Finish**	**Mounting Style**	**Belt Length**	**Item No.**
Specialty Wall-Mounted Barriers					
Concealed Retractable Belt Barrier	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed	Satin Aluminum	Fixed Mounting Plate	7 ft.	**J5940**
Warehouse Fixed Mount Retractable Belt Barrier		Powder Coated, Wrinkle	Fixed Mount	18 ft.	**J5946**
Warehouse Quick Mount Retractable Belt Barrier			Quick Mount		**J5947**
Warehouse Adjustable Quick Mount Retractable Belt Barrier			Fixed/ Removable Mounting Plate		**J5948**











Crowd Control Barriers

Mr. Chain

Supplier Diversity

Use plastic chains, stanchions, ground posts and other accessories to create an effective crowd control/warning barrier based on your specific needs. Ideal for indoor or outdoor use.

PLASTIC CHAIN

Use with stanchions and ground posts for crowd and traffic control. Lightweight chain is strong and durable; UV protectant added to help resist fading.

STACHIONS AND GROUND POST

Medium- and Heavy-Duty Stanchions—Highly visible stanchions provide guidance and safety when controlling crowds and directing traffic.

Stachions and Ground Post

Ground Posts—Maintenance-free posts are used to outline paths and driveways.

ACCESSORIES

Sign Adapters—Use to attach a sign to a stanchion. Replace ball top with sign adapter. Accommodate signs up to 1/16" thick.

S-Hooks—Enable a user to attach a plastic chain in a variety of applications. Each size S-hook corresponds to the matching chain.

Magnet Ring/Carabiner—Easy Lock Out Tag Out (LOTO) option for use in manufacturing facilities, distribution centers, and retail stores.







Size	L	▶CHOOSE: Color	Item No.
Plastic Chain			
¾"	50 ft.	Yellow, Black, White	**E1220**
1½"	50 ft.	Yellow	**44F763**
1½"	50 ft.	Safety Orange	**44F766**
1½"	100 ft.	Yellow, Black, White	**E1221**
1½"	200 ft.	Yellow	**33HF97**
1½"	200 ft.	Red	**33HF98**
1½"	300 ft.	Yellow, Black, White	**E1224**
1½"	300 ft.	Yellow	**33HG02**
1½"	300 ft.	Red	**33HG03**
1½"	300 ft.	Orange	**33HG04**
1½"	500 ft.	Yellow	**J1047**
2"	50 ft.	Yellow	**44F769**
2"	50 ft.	Safety Orange	**44F772**
2"	100 ft.	Red, Orange, Green, White, Black, Yellow	**E1222**
2"	100 ft.	Alternating Magenta/Yellow	**3LUT6**
2"	100 ft.	Alternating Black/Yellow	**3LUR8**
2"	125 ft.	Yellow	**33HG06**
2"	160 ft.	Yellow	**33HG10**
2"	300 ft.	Red, Orange, Green, Black, White, Yellow	**E1225**
2"	500 ft.	Yellow, Red	**J1048**
3"	100 ft.	Red, Orange, Green, Yellow, White, Black	**E1223**
3"	300 ft.	Red, Orange, Green, White, Black, Yellow	**E1226**

Description	H	▶CHOOSE: Color	Item No.	Pkg. Qty.
Stanchions and Ground Posts				
Medium-Duty Stanchion, 2½" Dia.	40"	Red, Orange, Green, Black, White, Yellow	**E1218**	6
Medium-Duty Stanchion, 2½" Dia.	40"	Black and Yellow	**3JVA5**	6
Medium-Duty Stanchion, 2½" Dia.	40"	Orange and White	**32J514**	6
Solar Stanchion 2 ½" Dia, Glass Top	40"	Chrome	**39F824**	1
Heavy-Duty Stanchion, 3" Dia.	41"	Orange and White	**32J515**	4
Heavy-Duty Stanchion, 3" Dia.	41"	Red, Orange, Green, Yellow, Black, White	**E1219**	4
Ground Posts, 3" Dia.	27"	White, Black	**G6587**	6

Description	▶CHOOSE: Color	Item No.	Pkg. Qty.
Accessories			
Medium-Duty Sign Adapter	Black	**3LUT1**	6
Heavy-Duty Sign Adapter	Black	**3LUT2**	6
¾" S-Hook	Yellow	**E1238**	10
1½" S-Hook	Yellow, Black, White	**E1239**	10
2" S-Hook	Red, Orange, Green, White, Black, Yellow	**E1240**	10
3" S-Hook	Red, Orange, Green, White, Black, Yellow	**E1241**	10
Snap Reflector	Star White	**39F822**	6
Magnet Ring/Carabiner Kit	Black	**20VG41**	2
Magnet Ring/Carabiner Kit and Chain	Black/Yellow	**20VG42**	1



16½"
Super Scanner® V



19" SuperWand®



8.5" THD™



Hand-Held Concealed Weapons Detector



CSI 250 Ground Search



CSI Pro Pointer® II



Sharp Edition Ground Search



33-Zone Walk-Through

Metal Detectors

GARRETT METAL DETECTORS · FISHER RESEARCH LABS · BARSKA

HANDHELD

Nos. 10A457, 1ZRZ7, and 1ZRZ8 provide the ultimate sensitive response to metal objects. They are self-calibrating, easy and convenient to use, and offer increased durability. No. 20KZ01 provides precision locating for all types of metal to safeguard security areas. No tuning required. Features an optimum sensitivity level and allows you to choose between an audio alarm or silent vibrating. Can be used alone or in conjunction with No. 20KZ03. No. 20KZ02 is a high-performance detector for all types of metal. Choose between 3 frequencies for less chance of interference. Designed with "momentary low" switch to eliminate interference from steel rebar built into many concrete floors.

WALK-THROUGH METAL DETECTORS

Nos. 5ENY7, 53DU72, and 53DU73 detect 33 pinpoint zones to precisely identify multiple target locations across the entire body. Feature dual detection transmitters and receivers in each panel, over 20 standard program settings for optimal performance, and superior versatility with selectable settings designed for airports, courthouses, prisons, schools, facilities, special events, mass transit, loss prevention and many other applications. No. 20KZ03 transports to virtually any location and can be up and running within 5 min. Multizone detector features 100 sensitivity settings and requires only 1 operator. 40-hr. battery life. AC (110V or 220V) or DC power.

GROUND SEARCH METAL DETECTORS

No. 1ZTA2 features graphic target ID cursor, Accept/Reject notch for specific target detection and to ignore unwanted items. Designed with electronic pinpoint for easy target recovery. Also features continuous target depth indicator. 8 level sensitivity adjustment. No. 5ENY6 features increased durability and sensitivity, 360° side scan detection area, a wide range of operating temperatures, and includes woven belt holster. Also features proportional audible alarms and pinpoints targets faster.

Description	Audio Alarm	Indicator	Brand	Mfr. Model	Item No.
Hand-Held Metal Detectors					
Super Scanner V	Selectable	LED/Audio/Silent Vibrate	Garrett Metal Detectors	1165190	**10A457**
SuperWand	Selectable	LED/Audio/Silent Vibrate	Garrett Metal Detectors	1165800	**1ZRZ7**
Handheld Hand-Held Metal Detectors					
THD	Silent Alarm Only	LED/Silent Vibrate	Garrett Metal Detectors	1165900	**1ZRZ8**
Handheld Metal Detectors					
Concealed Weapons Detector	Yes	LED	Fisher Research	CW-10	**20KZ01**
Weapons Detector	Yes	LED	Fisher Research	CW-20	**20KZ02**
Walk-Through Metal Detectors					
33-Zone, Gray	Tone & Volume Adjustable	LED/LCD	Garrett Metal Detectors	1168414	**5ENY7**
33-Zone, Gray, Zone Indicator Lights on Both Sides	Tone & Volume Adjustable	LED/LCD	Garrett Metal Detectors	1168416	**53DU72**
33-Zone, Gray, ADA Compliant	Tone & Volume Adjustable	LED/LCD	Garrett Metal Detectors	1168432	**53DU73**
M-Scope Portable Walk-Through Metal Detector	Yes	LED	Fisher Research	M-SCOPE 110	**20KZ03**
Ground Search Metal Detectors					
CSI 250	Tone & Volume Adjustable	LCD/Audio	Garrett Metal Detectors	1140070	**1ZTA2**
CSI Pro Pointer® II	Selectable	Audio/Vibrate	Garrett Metal Detectors	1166020	**5ENY6**
Sharp Edition, 2 Modes, Aluminum	Yes	LCD	Barska	BE11922	**49U593**
Premiere Edition, Underwater, 2 Modes, Aluminum	Yes	Tone	Barska	BE11924	**49U594**
Pro Edition, Multiple Modes, Aluminum	Yes	Analog	Barska	BE11638	**49U595**
Elite Edition, Aluminum, 3 Tone Audio	Yes	LCD	Barska	BE11642	**49U597**
Elite-200 Metal Detector	Yes	LCD	Barska	BE12594	**48TK19**
Evidence Recovery Metal Detector Kit	Tone & Volume Adjustable	LCD/Audio	Garrett Metal Detectors	1140780	**43Y787**



No. 22PJ83



No. 22PJ87



No. 22PJ91

VEXOR

Pepper Sprays

Self-defense spray is made of natural oleo-resin capsaicinoids. Contain the highest grade capsaicin. This formula allows for a low operating temperature range without the addition of other chemicals.

Size	Approx. No. of Shots	Spray Line L (ft.)	Color	Type	Includes	Mfr. Model	Item No.
1.33 Foam							
2 oz.	25	10	Blue	Duty Belt	Flip Top	V-9133-3FTF	**22PJ85**
4 oz.	40	10	Blue	Duty Belt	Flip Top	V-9133-4FTF	**22PJ90**
14.5 oz.	12	15	Blue	Duty Belt	Pistol Grip	V-9133-9AKF	**22PJ96**
1.33 Fog							
2 oz.	25	10	Blue	Duty Belt	Flip Top	V-7133-3FTC	**22PJ83**
	—	—	Blue	Duty Belt	Flip Top	V-7133-3G	**22PJ87**
4.4 oz.	40	10	Blue	Duty Belt	Flip Top	V-7133-4FTC	**22PJ88**
9.2 oz.	12	15	Blue	Duty Belt	Pistol Grip	V-7133-CC9PBC	**22PJ97**
16 oz.	12	10	Blue	Duty Belt	Pistol Grip	V-7133-9AKC	**22PJ94**
1.33 Stream							
1.8 oz.	25	15	Black	—	Holster	SD-95FFA53H	**22PJ79**
	25	15	Blue	Duty Belt	Flip Top	V-9133-3FTS	**22PJ84**
	—	15	Blue	Duty Belt	Flip Top	V-9133-3FTS-FA	**22PJ86**
3 oz.	40	15	Blue	Duty Belt	Flip Top	V-9133-4FTS-FA	**22PJ91**
3.5 oz.	40	15	Blue	Duty Belt	Flip Top	V-9133-4FTS	**22PJ89**
9.2 oz.	12	15	Blue	Duty Belt	Pistol Grip	V-9133-CC9PBS	**22PJ98**
14.5 oz.	12	20	Blue	Duty Belt	Pistol Grip	V-9133-9AKS	**22PJ95**
Fog							
0.54 oz.	25	6	Black	Key Ring	Twist Lock	SD-105C11R	**22PJ58**
	25	6	Red	Key Ring	Twist Lock	SD-105C12R	**22PJ59**
	25	6	Blue	Key Ring	Twist Lock	SD-105C13R	**22PJ60**
	25	6	Yellow	Key Ring	Twist Lock	SD-105C15R	**22PJ61**
	25	6	Pink	Key Ring	Twist Lock	SD-105C16BC	**22PJ63**
	25	6	Black	Twist Top	Twist Lock	SD-105C51R	**22PJ65**
	25	6	Red	Twist Top	Twist Lock	SD-105C52R	**22PJ66**
	25	6	Blue	Twist Top	Twist Lock	SD-105C53R	**22PJ67**
	25	6	Yellow	Twist Top	Twist Lock	SD-105C55R	**22PJ68**
	25	6	Lime Green	Twist Top	Twist Lock	SD-105C58R	**22PJ70**
	25	6	Orange	Twist Top	Twist Lock	SD-105C59R	**22PJ71**
0.75 oz.	25	10	Black	—	Flip Top	V-7133-67FTC	**22PJ92**
4 oz.	25	15	Black	—	4 oz. Pepper Spray, 0.54 oz. Key Chain Pepper Spray, Pepper Spray first Aid Wipes	95TP3M4KW	**22PJ76**
	25	10	Gray	—	Flip Top	SD754FTC	**22PJ80**
4.4 oz.	25	10	Gray	—	Twist Lock	SD-91TLC120	**22PJ77**
9.2 oz.	25	15	Black/ Gray	—	Pistol Grip	SD-OD9PBC	**22PJ75**
Stream							
0.75 oz.	25	10	Black	—	Flip Top	V-9133-67FTS	**22PJ93**
3.5 oz.	25	10	Gray	—	Twist Lock	SD-91TLS120	**22PJ78**



No. 20AR23



No. 20AR19



No. 45KH35

IP Video Surveillance Kits

speco technologies LTS

Camera Voltage	No. of Channels	Camera Res.	Hard Drive Size	Lens	Includes	Item No.
Network Video Recorder Kit						
SPECO TECHNOLOGIES						
12VDC	4	1920x1080	1 TB	Fixed	(4) Outdoor 3MP Dome Cameras, 2.8mm; 4 Ch. NVR, 1TB	**45KH35**
	4	1920x1080	1 TB	Fixed	(4) Outdoor 3MP Bullet Cameras, 2.8mm; 4 Ch. NVR, 1TB	**45KH36**
	8	1920x1080	2 TB	Fixed	(4) Outdoor 3MP Bullet Cameras, 2.8mm; 8 Ch. NVR, 2TB	**45KH40**
	16	1920x1080	2 TB	Fixed	(8) Outdoor 2MP Dome Cameras, 3.7mm; 16 Ch. NVR, 2TB	**45KH41**
	8	1920x1080	2 TB	Fixed	(8) Outdoor 3MP Dome Cameras, 2.8mm; 8 Ch. NVR, 2TB	**45KH85**
	8	1920x1080	2 TB	Fixed	(8) Outdoor 2.1MP Bullet Cameras, 3.7mm; 8 Ch. NVR, 2TB	**45KH37**
	16	1920x1080	2TB	Fixed	(8) Outdoor 2MP Bullet Cameras, 2.8mm; 16 Ch. NVR, 2TB	**52YK58**
	8	1920x1080	2 TB	Fixed	(4) Bullet Cameras, (4) Dome Cameras, NVR	**45KH38**
	8	1920x1080	2 TB	Fixed	(4) Dome Cameras, NVR	**45KH39**
CCTV Kit						
LTS						
12VDC	8	2 MP (1920x1080)	1 TB	Fixed	(4) Dome Cameras, (4) 100 ft. Cable, Power Supply, NVR, Remote Control, Mouse, CMS Disk	**20AR23**
	8	2 MP (1920x1080)	1 TB	Fixed	(4) Bullet Cameras, (4) 100 ft. Cable, Power Supply, NVR, Remote Control, Mouse, CMS Disk	**20AR22**
	8	2 MP (1920x1080)	1 TB	Fixed	(8) Dome Cameras, (8) 100 ft. Cable, Power Supply, NVR, Remote Control, Mouse, CMS Disk	**20AR20**
	8	2 MP (1920x1080)	1 TB	Fixed	(8) Bullet Cameras, (8) 100 ft. Cable, Power Supply, NVR, Remote Control, Mouse, CMS Disk	**20AR21**
POE, 12VDC	4	2 MP (1920x1080)	1 TB	Fixed	(4) Dome Cameras, (4) 100 ft. Cable, Power Supply, NVR, Remote Control, Mouse, CMS Disk	**20AR18**
	4	2 MP (1920x1080)	1 TB	Fixed	(4) Bullet Cameras, (4) 100 ft. Cable, Power Supply, NVR, Mouse, CMS Disk	**20AR19**



No. 49YR71

Digital Video Recorder Kits

speco technologies

Camera Voltage	No. of Channels	Camera Res.	Hard Drive Size	Lens	Includes	Item No.
12VDC	4	1920x1080	1 TB	Fixed	(4) Outdoor HD-TVI Dome Cameras, 3.6mm; 4 Ch. DVR, 1TB	**49NV20**
	4	1920x1080	1 TB	Fixed	(4) Outdoor HD-TVI Bullet Cameras, 3.6mm; 4 Ch. DVR, 1TB	**49NV21**
	8	1920x1080	2 TB	Fixed	(8) HD-TVI Dome Cameras, DVR, Remote Control, Mouse	**49NV24**
	8	1920x1080	2 TB	Fixed	(8) HD-TVI Dome Cameras, DVR, Remote Control, Mouse	**49NV25**
	8	1920x1080	2 TB	Fixed	(4) Outdoor HD-TVI Dome & 4) HD-TVI Bullet Cameras, 3.6mm; 8 Ch. DVR, 2TB	**49NV26**
	4	1920x1080	1 TB	Fixed	(4) Outdoor HD-TVI Bullet Cameras, 3.6mm; 4 Ch. Wallmount DVR, 1TB	**49YR71**
	4	1920x1080	1 TB	Fixed	(4) Outdoor HD-TVI Dome Cameras, 3.6mm; 4 Ch. Wallmount DVR, 1TB	**49YR72**



No. 52PE61

Network IP Cameras

Use for installations where a wide area or multiple areas need monitoring, or a large number of cameras are required. Cameras don't require multiple cables for hook up, can use existing network infrastructure, and allow centralization of security for data storage. Ideal where video needs to be viewable by multiple users in multiple locations. Allow mobile access via iPhone® and Android™ devices. Megapixel IP cameras provide more detail than traditional analog models. Feature higher resolution to improve camera zoom on live view and playback. Can transmit large data files and allow bandwidth throttling where the camera uses the bandwidth needed to transmit data, then throttles back to a lower preset bandwidth when there is no event to record.

Line Res.	Lens	Focal Length	Illumination	Day/Night Capable	L (in.)	W (in.)	H (in.)	Body Color	Mfr. Model	Item No.
Bosch										
5 MP	Fixed	2.50mm	No	Day	—	4 11/32"	2 11/64"	White	NUC-51051-F2	**45LC58**
LTS										
4MP	Fixed	2.8	Yes	Day/Night	—	—	3 13/16	White	LTCMIP3142W-28S	**48ZW08**
Vivotek										
12 MP	Fixed	6.00mm	Yes	Day/Night	4 31/32"	10 53/64"	4 27/32"	White	MS8391-EV	**52PE61**



Network Video Recorders (NVRs)

NVR is a software program that records video in a digital format to a USB flash drive, SD memory card, or other mass storage device. NVRs are similar to DVRs, but NVRs take video input over a network, as opposed to directly connecting to the NVR via a capture card or tuner. The video is streamed to the NVR for storage or remote viewing. An NVR contains no dedicated video capture hardware. Before installing an NVR, determine if the NVR software will run on a workstation or if a server required.

No. of IP Camera Inputs	Included Hard Drive Size	Video Export Function	H	W	D	Item No.
LTS						
4	—	USB, Network	1 51/64"	12 13/32"	9 7/64"	**40CN82**
8	—	USB, Network	1 51/64"	17 1/2"	11 13/32"	**40CN89**
Speco Technologies						
16	2 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA68**
16	4 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA69**
16	8 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA70**
16	12 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA71**
16	16 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA72**
16	24 TB	USB Flash Drive, External HDD, Network	3"	17 5/16"	16 13/64"	**54UA73**
8	2 TB	USB Flash Drive, External HDD, Network	2 7/64"	14 13/16"	12 29/32"	**54UA63**
8	4 TB	USB Flash Drive, External HDD, Network	2 7/64"	14 13/16"	12 29/32"	**54UA64**
8	6 TB	USB Flash Drive, External HDD, Network	2 7/64"	14 13/16"	12 29/32"	**54UA65**
8	8 TB	USB Flash Drive, External HDD, Network	2 7/64"	14 13/16"	12 29/32"	**54UA66**
8	12 TB	USB Flash Drive, External HDD, Network	2 7/64"	14 13/16"	12 29/32"	**54UA67**
Vivotek						
16	2 TB	USB, External HDD, Network	1 47/64"	12 15/64"	14 11/64"	**52PF22**
32	—	USB, External HDD, Network	3 1/2"	17 13/64"	25 33/64"	**52PF26**
64	—	USB, External HDD, Network	3 1/2"	17 13/64"	25 33/64"	**52PF25**
8	1 TB	USB, eSATA	2 61/64"	14 3/16"	12 1/4"	**45LJ98**



No. 45LD12

BOSCH speco technologies

Indoor and Outdoor Cameras

- Day/Night capable
- Power supply not included
- 12VDC

Surface mountable on ceiling or wall.

Type	Lens	Exposure Conditions	Focal Length (mm)	Resolution	Min. Light Level (Lux)	Camera Body Color	Mfr. Model	Item No.
Bosch								
Analog	Varifocal	Indoor	8.5 to 85	540	0.008	White	UPH-C498N-L8585	**45LD12**
Analog	Varifocal	Indoor	8.5 to 85	540	0.0024	White	UPH-C630N-L8585	**45LD16**
Speco Technologies								
Bullet	Auto Iris Varifocal	-4° to 140°F	5 to 50	2MP	0.001	Dark Gray	HTINT702T	**J6064**
Dome	Auto Iris Varifocal	-4° to 140°F	5 to 50	2 MP	0.001	Dark Gray	HT7250T	**J6065**
HD-TVI Dome	Auto Iris Varifocal	14° to 122°F	2.8 to 12	2 MP	0.001	Black	CVC6246T	**52VK18**
HD-TVI Dome	Auto Iris Varifocal	14° to 122°F	2.8 to 12	2 MP	0.001	White	CVC6246TW	**52VK19**
HD-TVI Turret	Fixed	-4° to 140°F	3.6	2 MP	0.001	Dark Gray	HTINT601T	**45AU45**
Vitek								
Bullet	Motorized Auto Focus	—	2.8 to 12	1 MP	0.001	White	VTC-T4B4HR2MD	**54DL88**
Turret	Motorized Auto Focus	—	2.8 to 12	1 MP	0.001	White	VTC-T4T3HR2MD	**54DL89**



No. 45KH72

speco technologies

Outdoor Day/Night Infrared Cameras

- 12VDC

Built-in LEDs provide illumination for clearer nighttime images. Weather-resistant construction.

Description	Focal Length (mm)	Resolution	Includes	Mfr. Model	Item No.
IR WDR Turret	2.8 to 12	1000	3DNR, 3 Axis Wall or Ceiling Mount	HT6040K	**45KH72**
Bullet	5 to 50	2MP	5 Year Warranty, Sunshield, Mounting Bracket and Screws	HTINT702T	**56AT28**
HD-TVI Mini-Turret	2.9	2 MP	Mounting Hardware, Power Supply	HT71TW	**52VK17**
HD-TVI Turret	3.6	2 MP	Heater	HT6041T	**45AU49**
HD-TV1 Bullet	2.8 to 12	2 MP	Sunshield, 2-way Pivot Mounting, Heater	HT7040T	**45AU60**
HD-TV1 Dome	2.8 to 12	1000	3-Axis Wall or Ceiling Mount, Chameleon Cover™	HT5940T	**49CX55**

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

speco technologies

Outdoor Day/Night Intensifier™ Analog Cameras

Use Intensifier chip to amplify extremely low light to produce usable images. Technology creates color images in daylight or at night.



With Intensifier™



Without Intensifier™



Description	Focal Length (mm)	Line Res.	Min. Light Level (Lux)	Voltage	Power Supply	L (in.)	W (in.)	H (in.)	Item No.
Bullet Cameras									
Wide Dynamic Range Traditional, Dark Gray Housing	3.6	2 MP	0.001	12VDC/24VAC	Not included	8 9/32"	3 61/64"	3 61/64"	**J6064**
Intensifier, Dark Gray Housing	2.8 to 12	1000	0	12VDC/24VAC	Not included	8 9/32	—	3 61/64	**49NU68**
Dome Cameras									
HD-TVI Dome, Dark Gray Housing	2.8 to 12	2 MP	0.001	12VDC/24VAC	Not Included	—	—	3 15/32	**J6065**
Dark Gray Housing	2.8 to 12	1000	0.0001	12VDC/24VAC	Not Included	4 47/64	4 47/64	3 23/64	**45EJ80**



No. 46KJ68

Car Surveillance Camera

Digital·Ally

Kit helps provide digital video tools needed to increase driver safety, track assets in real time, and help minimize liability risk. Fully customizable, simple to operate and maintain, and durable.

Description	Includes	Item No.
In Car Video Solution - DVM-800 Series	(2) External Cameras, Main Unit, Windshield Mounting Puck, Security Tamper Resistant Screw, Key Kit, Cables, Wireless Microphone, Charging Cradle, Mounting Bracket, Lapel Microphone, Base Seat Microphone, WiFi Assembly, GPS Module	**46KJ68**



No. 46KJ86



No. 46KJ84

Body Camera Systems

Digital·Ally

Description	Includes	Mfr. Model	Item No.
Cameras			
Chest Camera with Switchable Audio	11" Cable, Alligator Clip, Hook-and-Loop Mount, Button Mount, Wedge	001-00241-11	**46KJ86**
Chest Camera with Switchable Audio	48" Cable, Alligator Clip, Hook-and-Loop, Button Mount, Wedge	001-00241-48	**46KJ88**
HD DVRs			
HD DVR with Standard Battery	(2) Batteries, USB Cord, Wall Charger Adapter, Car Charger Adapter, Battery Charger	001-00219-00	**46KJ84**
HD DVR with Extended Battery	Battery, USB Cord, Wall Charger Adapter, Car Charger Adapter, Battery Charger	001-00220-00	**46KJ85**
Accessories			
Extended Life Battery		135-00407-00	**46KJ92**
Body Cam Tactical Pouch	Extension Cable	002-05132-00	**46KJ82**

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





No. 54UA79

Digital Video Recorders (DVR)

speco technologies BOSCH

DVRs allow you to record CIF resolution videos at speeds for high-quality imagery and save storage space with 11.264 compression technology. In addition, they allow you to record audio from up to 4 channels and they support Digital Deterrent that triggers an audio message via motion detection or sensors. Up to 8 audio files are supported. LTS units include mouse, central management software, and power supply. They are designed with continuous motion recording mode. View locally or via the web including smart devices. Interlogix DVR includes power cord and Truvision navigator software. View with full screen, multiscreen, or sequential switching with preview, playback, local display, remote viewer, or mobile viewer.

No. of Channels	Hard Drive Size	Max. Frames Per Second	Video Export Function	Power Consumption	H	W	D	Brand	Mfr. Model	Item No.
DVR, H.264										
8	1 TB	120	USB, External HDD, Network	12VDC @ 3A	2"	11 13/16"	9 29/32"	Speco	D8VX1TB	**54UA79**
8	2 TB	120	USB, External HDD, Network	12VDC @ 3A	2"	11 13/16"	9 29/32"	Speco	D8VX2TB	**54UA80**
8	3 TB	120	USB, External HDD, Network	12VDC @ 3A	2"	11 13/16"	9 29/32"	Speco	D8VX3TB	**54UA81**
8	4 TB	120	USB, External HDD, Network	12VDC @ 3A	2"	11 13/16"	9 29/32"	Speco	D8VX4TB	**54UA82**
8	6 TB	120	USB, External HDD, Network	12VDC @ 3A	2"	11 13/16"	9 29/32"	Speco	D8VX6TB	**54UA83**
16	2 TB	240	USB, External HDD, Network	12VDC @ 5A	2"	11 13/16"	9 29/32"	Speco	D16VX2TB	**54UA84**
16	3 TB	240	USB, External HDD, Network	12VDC @ 5A	2"	11 13/16"	9 29/32"	Speco	D16VX3TB	**54UA85**
16	4 TB	240	USB, External HDD, Network	12VDC @ 5A	2"	11 13/16"	9 29/32"	Speco	D16VX4TB	**54UA86**
16	6 TB	240	USB, External HDD, Network	12VDC @ 5A	2"	11 13/16"	9 29/32"	Speco	D16VX6TB	**54UA87**
32	2 TB	960	USB	20W	2 7/64"	14 13/16"	12 45/64"	Bosch	DDH-3532-112D00	**400C52**

speco technologies

Outdoor WiFi Access Point

Extends the range of WiFi Up to 300 ft.

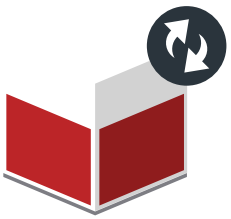
Mounting	Includes	For Use With	Mfr. Model	Item No.
Wall or Pole	Ball Joint Mount, Wall and Pole Mount Attachment	Mfr. No. O2C1, WIFIMOD	APRPT	**49NU75**



No. 49NU75

AUTO-REORDER

Don't run out of the products you need to help keep your employees safe. Decide exactly how much you need now and how often you need it, and we'll take care of the rest. Get email notifications before your order is automatically replaced, and adjust or cancel orders anytime.



> Get started today at **grainger.com/autoreorder**



No. 33RM01



No. 6LU93



No. 33RL98

TATUNG speco technologies

Video Surveillance Monitors

Universal monitors for use with security cameras, network video cameras, DVRs, quad splitters, multiplexers, and other video devices.

Tatung LED Color Monitors—Feature full 1080p high-definition LED panels with multiple inputs including VGA, AV, USB, and HDMI. Designed for 24/7 applications with standard vesa pattern on the back for wall mounting. Includes built-in speakers.

Portable LCD Color Test Monitor—Headphone jack allows audio testing. Video/audio connector: RCA with BNC plug adapter. Includes 12VDC power supply, 4-hr. rechargeable battery, charger, video cable, and carrying case.

LED with VGA—19-in. flat-panel screen features backlit LCD and built-in stereo speakers. Required for high-resolution surveillance. Includes regulated 12VDC, 5A power supply. VESA compatible.

- Display up to 16.7 million colors
- VGA (D-Sub 15 pins) and BNC video inputs

Screen Size	Line Resolution	H	W	D	Cabinet Color	Brand	Item No.
LCD Color Monitors							
10"	640 x 480	8 13/16"	10 5/16"	2 1/2"	Black	Speco Technologies	**33RM01**
Portable LCD Color Test Monitor							
4"	480 x 234	5 1/4"	6"	3"	Black	Speco Technologies	**6LU93**
LED Color Monitors							
4 5/16"	800 x 480	8 3/8"	5"	2 3/64"	Black	Tatung	**54GE20**
17"	1280 x 1024	13 29/32"	14 39/64"	16 5/16"	Black	Speco Technologies	**33RL98**
17"	1280 x 1024	15 23/64"	15 1/2"	2 49/64"	Black	Tatung	**34KJ75**
19"	1920 x 1080	13 45/64"	17 13/32"	2 13/64"	Black	Speco Technologies	**33RL97**
19"	1366 x 768	14 3/16"	18 1/2"	1 1/2"	Black	Tatung	**34KJ73**
19"	1280 x 1024	16 1/2"	17"	2 49/64"	Black	Tatung	**34KJ74**
21 1/2"	1920 x 1080	15 19/64"	21 1/16"	1 1/2"	Black	Tatung	**34KJ72**
21 1/2"	1920 x 1080	16 13/64"	20 5/16"	2 13/32"	Black	Speco Technologies	**33RL96**
24"	1920 x 1080	14 3/4"	22 3/16"	2"	Black	Tatung	**34KJ71**
43"	1920 x 1080	25"	38 3/16"	3"	Black	Tatung	**34KJ68**
50"	1920 x 1080	29"	44 1/16"	3"	Black	Tatung	**34KJ67**



No. 444M36

TATUNG

Interactive Touchscreen Displays

- 50,000 hr. panel lifespan

Each interactive touchscreen display incorporates features that make them the ideal solution for collaborative sharing in places such as meeting rooms, conference rooms, or as a powerful learning tool in the classroom environment. These interactive displays surpass traditional interactive whiteboards that use projectors. Feature full HD 1080p resolution for crisp, bright display surfaces. A simple USB connection from the display to your computer enables the touchscreen function. Made with protective tempered glass, these models are designed with surface light wave technology. Support Windows 7 and 8, Mac OS, and Linux operating systems.

Screen Size	Contrast Ratio	Includes	H	W	D	Mfr. Model No.	Item No.
75"	19000:01	Power Cord, HDMI Cable, USB Cable, (2) Stylus Pen, Wall Mount	41 1/2"	68 3/8"	4 3/8"	TS75M10E	**56HR17**
65"	1200:1	Power Cord, HDMI Cable, Remote Control, Batteries, Manual	36 31/64"	4 3/16"		TS65M10E	**444M36**

Edwards Signaling ★ GA GRAINGER APPROVED NAPCO

Fire Alarm Power Boosters and Accessories

Power booster panels have a self-contained 24VDC power supply to augment fire alarm panel power requirements, and 4 independent Notificiation Appliance Circuits.

ACCESSORIES

Digital Communicator—Acts as a modem to allow communication via a phone line from the control panel to a third-party monitoring service. LCD.

Remote Relay Module—Equipped with 5 form C relays rated at 1A, 30VDC each. May be programmed as zone relays or common system relays for alarm, trouble, supervisory, power, and monitor.

Remote System and Zone Indicators—Mount separately in a single-gang outlet box and display system or zone status in a location remote from the main panel. Remote System and Remote Zone Indicators can be mounted together using the multigang faceplates (sold separately).

Reverse Polarity Module—Interfaces with a reverse polarity receiver to provide communication to an off-site monitoring system.

City Tie Module—Allows the fire alarm control panel to communicate with the fire station.



No. 1EXY3

Current Cap./Panel	H	W	Color	Mfr. Model	Brand	Item No.
Power Boosters						
6.5A	17"	13"	Red	EBPS6A	Edwards Signaling	**1EXY3**
10.0A	17"	13"	Red	EBPS10A	Edwards Signaling	**1EXY4**

Description	For Use With	Mfr. Model	Brand	Item No.
Gate Operator Accessories				
12V, 7AH Battery	E-FSC502R, Mfr. No E-FSC302R	2UKJ4	Grainger Approved	**2UKJ4**
Accessories				
12V, 10AH Battery	1EXY2	12V10A	Edwards Signaling	**1EXZ7**
Digital Communicator	Mfr. No. E-FSC302R, E-FSC502R, E-FSC1004R	F-DACT	Edwards Signaling	**1EXZ1**
Remote Relay Module	Mfr. No. E-FSC302R, E-FSC502R, E-FSC1004R	FSRRM24	Edwards Signaling	**1EXZ2**
Remote System Indicator	Mfr. No. E-FSC302R, E-FSC502R, E-FSC1004R	FSRSI	Edwards Signaling	**1EXZ3**
Remote Zone Indicator	Mfr. No. E-FSC302R, E-FSC502R, E-FSC1004R	FSRZI-A	Edwards Signaling	**1EXZ4**
Double Gang Faceplate	1EXZ3, 1EXZ4	FSAT2	Edwards Signaling	**1EXY8**
Triple Gang Faceplate	1EXZ3, 1EXZ4	FSAT3	Edwards Signaling	**1EXY9**
Reverse Polarity Module, 200mA @ 24VDC	1EXW9, 1EXY1, 1EXY2	RPM	Edwards Signaling	**1EXZ5**
City Tie Module	1EXW9,1EXY1	CTM	Edwards Signaling	**13T102**
Annunciator Keypad	Mfr. No. MA3000	CF3000LCDE	Napco	**54TR75**
Phone Line Module		CF5530	Napco	**54TR76**
Fire Relay Module		FT2200	Napco	**54TR77**
Fire Relay Module		FT279	Napco	**54TR78**
Reversing Relay Module	FW-2S Smoke Detector	FW-RM1	Napco	**54TR81**
Battery Harness		RBAT-H1	Napco	**54TR86**
Battery Jumper		RBAT-H2	Napco	**54TR87**
Universal Keypad Surface		RPB-3-RED	Napco	**54TR88**

Edwards Signaling NAPCO

Fire Alarm Initiating Devices

When activated, devices send signals on a hard-wired connection to initiate an alarm.

PULL STATIONS

Dual-action pull stations prevent accidental alarm activation. Replaceable glass indicates when a station has been activated.

Weatherproof—NEMA 4X rated.

HEAT DETECTORS

- Contact rating: 3A at 125VAC, 1A at 28VDC, 0.3A at 125VDC, 0.1A at 250VDC
- 2500 sq. ft. coverage

Rate of rise: Temperature increase at the sensor of 15°F (9°C) or more per minute activates the rate-of-rise feature; self-restoring.

Fixed temperature: If temperature of the center disk rises to the sensor's rated temperature, the fixed temperature element activates. Nonrestorable and nonreusable. Once activated, the detector must be replaced.

Weatherproof—For indoor or outdoor use.

Explosionproof—For installation in hazardous locations; indoor use only. Rated for Div. 1 and 2.

SMOKE DETECTORS

- Operating voltage: 8.5VDC to 33VDC

LEDs on units give visual indication of alarm activation. Include test switch.

Photoelectric—Units detect dark or thick smoke. Respond quickly to slow smoldering, high-smoke fires.

Smoke Detectors, Air Sampling—Central detection units draw air from a protected area and monitor the stream for the presence of smoke and other products of combustion. Ideal for mission critical settings and hostile environments.

AIR DUCT SMOKE DETECTORS

- Operating voltage: 24VAC/VDC or 120/240VAC

Activate when combustion particles exceed 2.3% per ft. in air moving at 100 fpm to 4000 fpm. Match the air duct size to the appropriate air sampling tube. Remote Test/Reset Station No. 1EYC1 (sold separately) easily monitors difficult-to-access duct smoke detectors.



No. 5KDF0


No. 16X271


No. 1EYB5

Description	H (in.)	L (in.)	D (in.)	Brand	Mfr. Model	Item No.
Weatherproof Pull Stations						
Single-Action, Pull, Tool Reset	4¾	3 1/16"	3	Edwards Signaling	MPSR1-SHTW-GE	**5KDF1**
Single-Action, Pull, Key Reset	4¾	3 1/16"	3	Edwards Signaling	MPSR1-S45W-GE	**5KDF0**
Replacement Glass for Pull Stations						
For Nos. 1EYC6, 16X263, 16X261, 16X260	1/8	2	1/8	Edwards Signaling	270-GLR	**1EYC7**
For Nos. 1EYC9 and 1EYD1	1/8	3	1/8	Edwards Signaling	276-GLR	**1EYC8**
For use on MPSR Pull Stations	—	3	—	Edwards Signaling	MPSRGR10	**13T113**
Heat Detectors						
135°F, Rate Compensation, Tubular	4 1/4	2 1/16	2 1/16	Edwards Signaling	302-135	**16X271**
194°F, Rate Compensation, Tubular	4 1/4	2 1/16	2 1/16	Edwards Signaling	302-194	**16X272**
Weatherproof Heat Detectors						
135°F, Rate Compensation, Tubular	4 1/8	2 1/16	2 1/16	Edwards Signaling	302-AW-135	**16X273**
194°F, Rate Compensation, Tubular	4 1/8	2 1/16	2 1/16	Edwards Signaling	302-AW-194	**16X274**
Explosionproof Heat Detectors						
135°F, Rate Compensation, Tubular	4 1/4	1	1	Edwards Signaling	302-EPM-135	**16X275**
194°F, Rate Compensation, Tubular	4 1/4	1	1	Edwards Signaling	302-EPM-194	**16X276**
Smoke Detectors						
Photoelectric with Sounder	2	—	—	Edwards Signaling	521NCSXT	**13T101**
Photoelectrical Sounder	6½	6½	5	Napco	FW-2S	**54TR80**
(2) Heat Wires	6½	6½	5	Napco	FW2-H	**54TR82**
Air Duct Smoke Detector						
Photoelectric	5 7/16	14½	1⅞	Edwards Signaling	SD-4WJ	**1EYB5**

For Use With	Brand	Item No.
Accessories		
For Air Duct Width up to 2 ft.	Edwards Signaling	**1EYB7**
For Air Duct Width up to 3½ ft.	Edwards Signaling	**1EYB8**
For Air Duct Width up to 6½ ft.	Edwards Signaling	**1EYB9**
For Edwards Signaling Brand No. 1EYB5	Edwards Signaling	**1EYC1**



No. 5KDG2



No. 5KDF9



No. 21HN50



No. 5KDF4

EATON Powering Business Worldwide | Edwards Signaling | SYSTEM SENSOR

Fire Alarm Output Devices

Signals are hardwired from a control panel (sold separately).

Bell and Chime Strobe—Use Fire Bell and Horn for audible signaling of a fire. Use Chimes in private areas where attendant will take necessary action. For loud areas and where occupants use hearing protection or are hearing impaired. For indoor applications.

Outdoor Horn Strobe—Use strobe with an installed fire alarm panel and detection devices. For outdoor applications. Must be installed with Weatherproof Back Box No. 5KDF8, available on Grainger.com®.

Mounting	Max. Alarm Current	Flash (Candela)	Peak Output (dBA)	Voltage	W	Brand	Red Mfr. Model	Red Item No.	White Mfr. Model	White Item No.
Bell										
Wall	—	—	85dB	24VAC	6"	Wheelock	CN121062	**38GU98**	—	—
Wall	—	—	85dB	115VAC	6"	Wheelock	CN121063	**38GU99**	—	—
Wall	—	—	88dB	115VAC	10"	Wheelock	CN121065	**38GV02**	—	—
Chime Strobe										
Flush or Surface	99 to 277mA DC, 154 to 383mA FWR	15/30/75/110	78.6	24VDC, FWR		Edwards Signaling	EG1F-CVM	**16X348**	EG1-CVM	**16X346**
—	99 to 277mA DC, 154 to 383mA FWR	15/30/75/110	78.6	24VDC	2¾	Edwards Signaling	EG1-CVM	**1EYA6**	—	—
Flush or Surface	99 to 277mA DC, 154 to 383mA FWR	15/30/75/110	78.6	24VDC, FWR		Edwards Signaling	—	—	EG1F-CVM	**16X347**
Hazardous Location Horn Diode Polarized										
—	.16A	—	97	20-24VDC	7⅓	Edwards Signaling	889D-AW	**5KDG2**	—	—
Horn										
Surface or Flush	40mA	—	85	24VDC		Edwards Signaling	2447TH	**13T110**	—	—
Surface or Flush	40mA	—	85	24VDC or FWR		Edwards Signaling	—	—	2447TH	**16X256**
Wall	10 to 29mA DC	—	80	12-24V	2⁹⁄₁₀	System Sensor	—	—	MHW	**21HN42**
Wall	—	—	70 to 88dB, 88 to 99dB	12 to 24VDC	5¼"	Wheelock	CN121067	**38GV03**	CN121068	**38GV04**
Wall	—	—	99dB	12 to 24VDC	4½"	Wheelock	CN121091	**38GV28**	CN121092	**38GV29**
Horn Strobe										
Flush or Surface	129 to 337mA DC, 176 to 443mA FWR	15/30/75/110	97.6	24VDC, FWR		Edwards Signaling	EG1F-HDVM	**16X353**	EG1-HDVM	**16X351**
—	129 to 337mA DC, 176 to 443mA FWR	15/30/75/110	97.6	24VDC	2¾	Edwards Signaling	EG1-HDVM	**1EYA5**	—	—
Flush or Surface	129 to 337mA DC, 176 to 443mA FWR	15/30/75/110	97.6	24VDC, FWR		Edwards Signaling	—	—	EG1F-HDVM	**16X352**
—	0.190	15/75	85	24VDC	5½	Edwards Signaling	2452THS-15/75-R	**5KDF9**	—	—
—	0.369	110	85	24VDC	5½	Edwards Signaling	2452THS-110-R	**5KDG0**	—	—
Wall	—	—	99dB	12 to 24VDC	4½"	Wheelock	CN121083	**38GV20**	—	—
Ceiling	—	—	99dB	12 to 24VDC	6¹⁄₁₆"	Wheelock	CN121087	**38GV24**	CN121089	**38GV26**
Outdoor Horn Strobe										
Wall	272 a 355mA CD	15/30/75/95/110/115	99	120VAC	5⁹⁄₁₀	System Sensor	P2RHK-120	**21HN50**	—	—
Wall	88mA to 218mA (DC Max)	15 to 115 Selectable	88	12-24VDC	4¾	System Sensor	P2RK	**14N225**	—	—
Outdoor Wall Horn										
Wall	207 to 286mA DC	—	101	12-24V	4⁷⁄₁₀	System Sensor	HRK	**21HN51**	—	—
Speaker										
Ceiling	—	—	87dB	25/70 Vrms	7¹⁷⁄₆₄"	Wheelock	—	—	CN121078	**38GV15**
Speaker Strobe										
Ceiling	—	—	87dB	25/70 Vrms	7¹⁷⁄₆₄"	Wheelock	—	—	CN121082	**38GV19**
Strobe										
—	150mA DC, 210mA FWR	15/75		24VDC	4½	Edwards Signaling	CS405-7A-T	**5KDF7**	—	—
4" Double Gang Box	109 to 318mA, 131 to 437mA for EGC to VM	15/30/75/95		16 to 33VDC	6	Edwards Signaling	—	—	EGC-VM	**5KDF4**
Flush	109 to 318mA DC, 131 to 437mA FWR	15/30/75/95		24VDC, FWR		Edwards Signaling	—	—	EGCF-VM	**16X393**
Wall	—	—		12 to 24VDC	4½"	Wheelock	CN121084	**38GV21**	—	—
Surface Box										
Surface	—	—		—		Edwards Signaling	2459-SMB	**16X257**	2459-SMB	**16X258**
Trim Plate										
—	—	—	—	24VDC	4¹⁵⁄₁₆	Edwards Signaling	EG1RT	**1EYB2**	—	—
Weatherproof Box										
Surface	—	—		—		Edwards Signaling	2459-WPB	**13T114**	2459-WPB	**16X259**



No. 54TR41

NAPCO

Intrusion System Control Panels

- Up to 16 user codes
- Supports up to 7 keypads
- EZ Programming at keypad
- 256 event logging

Gemini hybrid controls feature multiplex expandability using built-in EZMs in custom alpha keypads or 8-zone expansion modules.

Item	For Use With	Mfr. Model	Item No.
Hybrid Wireless Control Panel	—	GEMP1632DK1WL	**54TR40**
Panel Pack	Gemini Series RP1CAE2	816PREMPAK	**54TR28**
Control Panel	Mfr. No. GEM-RP1CAE2	GEMP1632INTROPK	**54TR41**

Covers for Fire Alarm Devices

Safety Technology International

Surface-mount models include a conduit spacer and are designed to cover devices mounted to an electrical gang box.

Indoor/Outdoor Pull Station Covers—Deter malicious and accidental fire alarms without restricting legitimate alarms. Covers with alarms have a 95/105dB selectable horn that activates when cover is opened.

Horn/Strobe Covers—Help protect strobes and horn/strobes from damage and vandalism. Horn/Strobe Covers have sound openings.



No. 1DPD7



No. 2KFK3



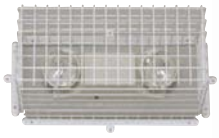
No. 2KFK7


No. 1DPE2

Description	FLUSH MOUNT H	W	D	Mfr. Model	Item No.	SURFACE MOUNT H	W	D	Mfr. Model	Item No.
Indoor Pull Station Covers										
With Alarm	8 7/8"	6 13/16"	3 3/16"	STI-1100	**1DPD7**	8 7/8"	6 13/16"	5 3/16"	STI-1130	**2KFK3**
Without Alarm	8 9/64"	5 13/32"	4"	STI-13020FR	**34D123**	5 7/16"	4 29/32"	3 57/64"	STI-13220FR	**45YP78**
Without Alarm	8 7/8"	6 13/16"	3 3/16"	STI-1200	**1DPD6**	8 7/8"	6 13/16"	5 3/16"	STI-1230	**2KFK4**
Indoor/Outdoor Pull Station Covers										
With Alarm	8 5/32"	5 7/16"	2 21/32"	STI-13020NR	**5AFY1**	8 5/32"	5 7/16"	4"	STI-13220NR	**5AFY2**
Without Alarm	8 5/32"	5 7/16"	2 21/32"	STI-13000NC	**5AFX7**	8 5/32"	5 7/16"	4"	STI-13200NC	**5AFY4**
Without Alarm, Fire Label	8 5/32"	5 7/16"	2 21/32"	STI-13010FR	**5AFX8**	8 5/32"	5 7/16"	4"	STI-13210FR	**5AFX9**
Without Alarm	8 7/8"	6 13/16"	3 3/16"	STI-1250	**2KFK7**	10 13/64"	7 13/64"	5 1/2"	STI-3150	**2KFK5**
Horn/Strobe Covers										
Polycarbonate	8 1/2"	6 1/2"	4"	STI-1210E	**1DPE2**	8 1/2"	6 1/2"	5 3/4"	STI-1210D	**1DPD9**
Accessory for Pull Station Covers										
2" Conduit Spacer										**1DPD8**



No. 8C245


No. 8C246


No. 9EKC8

Safety Technology International

Wire Covers

Help protect fire bells, clocks, beacons, and other devices from damage and vandalism. No. 3FVP5 is compatible with low-profile and flush-mount units.

Color	H	W	D	Item No.
Rectangle Covers				
White	10 1/2"	13 3/4"	2 3/4"	**8C245**
White	10 3/4"	26 3/4"	11 1/4"	**8C246**
White	7 3/4"	6"	6"	**9EKC8**
White	7"	5 3/4"	4 1/2"	**3FVP5**
White	7 1/3"	6 1/8"	3 1/3"	**16D841**
White	7 1/2"	6 3/4"	6 1/8"	**16D843**
Red	7 1/2"	6 3/4"	6 1/8"	**16D844**
Octagonal Covers				
White	16 1/2"	16 1/2"	6"	**4AFZ9**



Exit Stopper®



REX PLUS® Electronic Watchdog

Audible Entry and Exit Alarms

Safety Technology International

ALARMS

Exit Stopper®—In Exit Alarm mode, alarm can be set to sound for 30 sec., 3 min., or indefinitely. In Annunciator mode, detector announces door entry. Select 15-sec. entry delay or immediate alarm. Warning horn can be set to 95 or 105dB.

Wireless Alarm Kit—REX PLUS® Electronic Watchdog detects movement in a selected indoor location. Features 4 selectable sounds: continuous rain forest, barking sound of an attack dog, rain forest sound to announce visitors, barking dog for 15 to 20 sec. then a continuous siren. Detects movement through walls, doors, and glass. Variable sensitivity (up to 30 ft.) plus a volume control. 110VAC.

ACCESSORIES

8-Channel Receiver No. 16D856 helps monitor up to 4 devices. Features a distinct beep and tone for each of the 4 devices. Latching memory LED (flashes until reset). Use with No.16D849 Add-on Wireless Exit Stopper®. No. 16D849 emits an ear piercing alarm when exit door is opened. Alarm announces door entry with a set of 10 beeps. Detects both unauthorized exits and entries.

Description	Color	Item No.
Exit Stopper®		
Exit Stopper®	Red	**1DPE1**
Exit Stopper®, Double Door	Red	**3JYV9**
Exit Stopper® with Remote Horn Alarm	Red	**3JYW2**
Wireless Alarm Kit		
REX PLUS® Electronic Watchdog	Light Blue	**1DPF3**
Accessories		
8-Channel Receiver	White	**16D856**
Add-On Wireless Exit Stopper®	Red	**16D849**

GRAINGER APPROVED

Safety Technology International

Entrance and Exit Announcers

Reduce surprise visits and missed deliveries with exit and entrance announcers.

Photoelectric Door Announcer—Activated when an individual passes between a photo beam and a reflector. Can be programmed to sound an alert or chime.

Combination PIR and Magnetic Contact Door and Entrance Alerts—Magnetic contacts activate chime/alarm when door or window is opened. Wireless chimes are compatible, sold separately.


No. 38XL85


No. 38XL86

Description	Mfr. Model	Item No.
Photoelectric Door Announcer - GA		
Wireless Doorbell Chime w/Receiver	STI-3350G	**38XL84**
Combination PIR/Magnetic Contact Wireless Entry Alert Chime		
Wireless Entry Alert Chime w/Receiver	STI-3360G	**38XL85**
Combination Passive Infrared (PIR) and Magnetic Contact Door and Entrance Alerts - Safety Technology Int'l		
Wireless Motion-Activated Chime w/Recvr	STI-3610G	**38XL86**
Wireless Doorbell Extender w/Receiver	STI-3300	**38XL91**
Wireless Chime Receiver	STI-3353	**38XL87**
Wireless Entry Alert Sensor	STI-3551	**38XL88**
Wireless Motion-Activated Sensor	STI-3601	**38XL89**
Wireless Doorbell Chime Sensor	STI-3301	**38XL90**


No. 2EXU5


No. 2EXV4

Magnetic Contacts

▪ Vertical or horizontal mount; hardware included

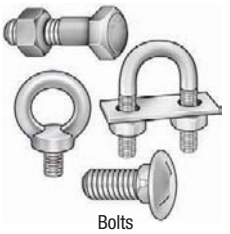
GRAINGER APPROVED

Low-current magnetic contacts send a signal to an alarm or a supervised monitoring system when the door magnet moves away from the frame magnet. A gap between the contacts compensates for ill-fitting doors and windows opened for ventilation. Aluminum switches are sealed airtight to resist corrosion. No. 2EXV4 mounts directly to the track or channel of an overhead door.

Loop Configuration	Max. Gap Distance (in.)	Lead Size	L (in.)	W (in.)	H (in.)	Max. Voltage	Item No.
Surface-Mounted—Aluminum							
Open or Closed	1 1/4	#22 AWG	5/8	2	3/8	30VDC/VAC	**2EXU5**
Open or Closed	1 1/4	#22 AWG, Armored Cable	5/8	2	3/8	30VDC/VAC	**2EXU6**
Surface-Mounted—Plastic							
Closed	1 13/64	#6 Screw	9/16	2	1/2	100VDC/VAC	**2EXT7**
Surface-Mounted for Overhead Doors—Aluminum							
Closed	2-6/10"	#22 AWG, Armored Cable	1 1/2	4 3/16	3/8	100VDC/VAC	**2EXV4**

Fasteners at a Glance


Hex Head Cap Screws
See page 2055


Bolts
See page 2070


Nuts
See page 2079

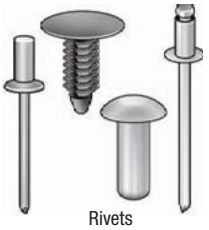

Washers
See page 2087


Screws
See page 2097

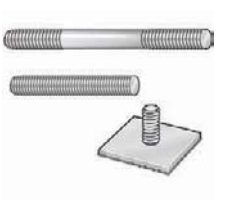

Nails
See page 2111


Socket-Head Cap Screws
See page 2112


Shoulder Screws & Set Screws
See page 2123


Rivets
See page 2131


Thread Inserts
See page 2137


Threaded Rod & Studs
See page 2144


Pins
See page 2150


Retaining Rings
See page 2155

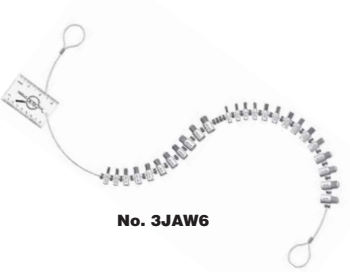

Springs
See page 2158


Anchors
See page 2161


O-Rings
See page 2173

Thread Measuring Gauges

Use these all-steel gauges to identify thread sizes on Nuts, Bolts, and Screws. Feature permanently laser-etched size markings. All include both inch- and metric-sizes; both male and female identifiers.


No. 3JAW6


No. 52CC96

Measures	Range	Item No.
Thread Identifier Wire Lanyard, Standard and Metric		
Nuts, Bolts, And Screws	SAE # 6 to ½" UNC and UNF, Metric Threads M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.0, M8 x 1.25, M10 x 1.0, M10 x 1.25, M10 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75, and attached ruler	3JAW6
Inch and Metric Thread Pitches	Identifiers ⅜-11, ⅜-18, ¾-10, ¾-16, 1-8 and 1-12 Metric M14 x 1.5, M14 x 2.0, M16 x 1.5, M16 x 2.0, M20 x 1.5, M20 x 2.5, M24 x 2.0, M24 x 3.0	52CC96
Inch and Metric Thread Pitches	Identifiers 1-64, 1-72, 2-56, 2-64, 3-48, 3-56, 4-40, 4-48, 5-40 and Metric M1.2 x 0.25, M1.6 x 0.35, M1.6 x 0.20, M1.8 x 0.35, M2 x 0.4, M2 x 0.25, M2.5 x 0.45, M2.5 x 0.35, M3 x 0.50, M3 x 0.35, M3.5 x 0.6, M3.5 x 0.35	52CC97
Steel Gauge		
Screws, Bolts, Nuts, Washers, and Wire Size	UNC Threads 6-32, 8-32, 10-24, ¼-20, 5⁄16-18, ⅜-16, 7⁄16-14, and ½-13, UNF Threads 10-32, ¼-28, 5⁄16-24, ⅜-24, 7⁄16-20, and ½-20, Metric Threads 4 to 12mm Standard, Fine, and Extra Fine	1TU58
Plastic Gauges		
Bolts, Nuts, and Washers	USS and SAE #6 to 1", ID #8 to ⅝", 0 to 4", Metric Gauge 6 to 22mm, Metric Length 0 to 100mm	2EE44


Torque Guide

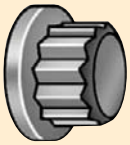

Black Book

Reference Books

Item	No. of Pages	English Item No.	Spanish Item No.
Torque Guide	28	2UUK3	—
Fastener Black Book, Inch Edition	196	38C736	—
Fastener Black Book	248	4KYX8	5DFD9
Engineers Black Book	168	—	5DFD8
Engineers Black Book	220	442X96	—
Reference Book	246	442X97	—

Hex Head Cap Screw Information

Hex head cap screws feature a thick, hexagonal head with a washer face under the head to provide an ample bearing surface for tightening with a wrench. They are general purpose threaded fasteners designed for insertion in pretapped holes or for use with nuts.



12-Pt. with Flange
Features a 12-pt. external head design that allows higher torques without rounding the head during tightening. Flange acts like a washer.



Self-Sealing Hex
Features a vibration-resistant silicone O-ring under the head to seal out air, water, lubricants, and liquid and gas contaminants.



Serrated Flange Hex
Has serrations under the flange that bite securely into materials to prevent loosening. Flange acts like a washer.

ARMOR COAT™ FASTENERS

★ GA GRAINGER APPROVED

METRIC BLUE



No. 5DKD1



No. 5YNH2

Hex Head Cap Screw Assortments

No. of Pieces	No. of Sizes	Includes	System of Measurement	Item No.
Armor Coat				
Grade 8 Steel Armor Coat™				
400	24	Hex Head Cap Screws (20) Each: ¼-20x3/4", (10) Each: ¼-20x1/2", x1", x1-1/2", ⅜-16x3/4", 5/16-18x3/4", x1-1/4", (5) Each: ¼-20x2", ⅜-16x1", x1-1/4", x1-1/2", x2", 5/16-18x1", x1-1/2", x2", High Strength Lock Washers (30) Each: ¼", (20) Each: ⅜", 5/16", SAE Flat Washers (50) Each: ¼", ⅜", 5/16", Hex Nuts (20) Each: ¼-20, 5/16-18, ⅜-16, and Plastic Container	Inch	**5DKD2**
771	24	Hex Head Cap Screws (50) Each: ¼-20x1/2", (25) Each; ¼-20x3/4", 5/16-18x3/4", (10) Each: ¼-20x1", x1-1/2", x2", ⅜-16x3/4", 5/16-18x1", x1-1/4", x1-1/2", x2", (8) Each: ⅜-16x1", x1-1/4", (5) Each: ⅜-16x1-1/2", x2", High Strength Lock Washers (45) Each: ¼", (40) Each: 5/16", (30) Each: ⅜", SAE Flat Washers (100) Each: ¼", ⅜", 5/16", Hex Nuts (50) Each: ¼-20, 5/16-18, ⅜-16, and Metal Container	Inch	**5DKD1**
GA				
Steel Plain				
553	20	Screws (10) Each: ¼"-20 x ¾", x1", x1-1/2", x2", 5/16"-18 x ¾", x1", x1-1/2", x2", (8) Each: ⅜"-16 x 1", x1-1/2", (7) Each: ⅜"-16 x 2, Hex Nuts (30) Each: ¼"-20, (15) Each: 5/16"-18, (10) Each: ⅜"-16, Flat Washers (100) Each: ¼", 5/16", ⅜", Lock Washers (50) Each: ¼", (30) Each: 5/16", (15) Each: ⅜", and Metal Container, Fits Cabinet No. 4UJ35	Inch	**53WR13**
Steel Zinc				
128	19	Screws (10) Each: M10-1.25 x 20mm, x25mm, x30mm, x40mm, x50mm, (5) Each: M10-1.25 x 75mm, M12-1.25 x 45mm, x50mm, (4) Each: M12-1.50 x 40mm, x50mm, x60mm, x70mm, (3) Each: M12-1.25 x 60mm, x65mm, x70mm, x80mm, Hex Nuts (15) Each: M10-1.25, (10) Each: M12-1.25, M12-1.50, and Metal Container, Fits Cabinet No. 4UJ35	Metric	**53WP95**
225	21	Hex Head Cap Screws (8) Each: M6 x 1 x 12mm, x16mm, (6) Each: M6 x 1 x 20mm, (5) Each: M8 x 1.25 x 20mm, (4) Each: M6 x 1 x 25mm, M8 x 1.25 x 25mm, x30mm, x35mm, M10 x 1.5 x 20mm, x25mm, (3) Each: M10 x 1.5 x 30mm, x35mm, Hex Nuts (26) Each: M6 x 1.00, (17) Each: M8 x 1.25, (13) Each: M10 x 1.50, Flat Washers (26) Each: 6mm, (17) Each: 8mm, (13) Each: 10mm, Lock Washers (26) Each: 6mm, (17) Each: 8mm, (13) Each: 10mm, and Plastic Hanging Pak	Metric	**53WR32**
349	21	Hex Head Cap Screws (12) Each: ¼"-20 x ½", (10) Each: ¼"-20 x ¾", 5/16"-18 x ½", x3/4", (8) Each: ¼"-20 x 1", 5/16"-18 x 1", (6) Each: ¼"-20 x 1½", 5/16"-18 x 1½", (5) Each: ⅜"-16 x ¾", x1", x1-1/2", (4) Each: ⅜"-16 x 1½", (3) Each: ⅜"-16 x 2", Hex Nuts (36) Each: ¼"-20, (34) Each: 5/16"-18, (17) Each: ⅜"-16, Flat Washers (36) Each: ¼", (34) Each: 5/16", (17) Each: ⅜", Lock Washers (36) Each: ¼", (34) Each: 5/16", (17) Each: ⅜", and Metal Container	Inch	**53WR35**
528	24	Screws (10) Each: ¼"-20 x ½", x3/4", x1", x1-1/2", x2", 5/16"-18 x ¾", x1", x1-1/4", x1-1/2", x2", (8) Each: ⅜"-16 x 1", x1-1/4", (5) Each: ⅜"-16 x 1½", x2", x2-1/2", Hex Nuts (30) Each: ¼"-20, (20) Each: 5/16"-18, ⅜"-16, Flat Washers (30) Each: ¼", (25) Each: 5/16", (20) Each: ⅜", Lock Washers (120) Each: ¼", (72) Each: 5/16", (60) Each: ⅜", and Metal Container, Fits Cabinet No. 4UJ35	Inch	**53WR05**
710	24	Screws (30) Each: M6-1 x 12mm, (25) Each: M8-1.25 x 16mm, (20) Each: M6-1 x 16mm, x20mm, x25mm, x30mm, M8-1.25 x 20mm, x25mm, (10) Each: M8-1.25 x 30mm, x40mm, M10-1.5 x 20mm, x30mm, x40mm, x50mm, (5) Each: M10-1.5 x 75mm, Hex Nuts (60) Each: M6-1.00, (30) Each: M8-1.25, (20) Each: M10-1.50, Flat Washers (50) Each: M6, (25) Each: M8, M10, Lock Washers (110) Each: M6, (90) Each: M8, (60) Each: M10, and Metal Container, Fits Cabinet No. 4UJ35	Metric	**53WR03**
711	24	Screws (100) Each: ¼"-28 x ½", (10) Each: ¼"-28 x ¾", x1", x1-1/2", x2", 5/16"-24 x ¾", x1", x1-1/4", x1-1/2", x2", ⅜"-24 x ¾", (8) Each: ⅜"-24 x 1", x1-1/4", (5) Each: ⅜"-24 x 1½", x2", Hex Nuts (30) Each: ¼"-28, (20) Each: 5/16"-24, ⅜"-24, Flat Washers (45) Each: ¼", (40) Each: 5/16", (30) Each: ⅜", Lock Washers (100) Each: ¼", 5/16", ⅜", and Metal Container, Fits Cabinet No. 4UJ35	Inch	**53WR07**
941	24	Screws (100) Each: ¼"-20 x ½", (10) Each: ¼"-20 x ¾", x1", x1-1/2", x2", 5/16"-18 x ¾", x1", x1-1/4", x1-1/2", x2", ⅜"-16 x ¾", (8) Each: ⅜"-16 x 1", x1-1/4", (5) Each: ⅜"-16 x 1½", x2", Lock Washers (45) Each: ¼", (40) Each: 5/16", (30) Each: ⅜", Hex Nuts (100) Each: ¼"-20, 5/16"-18, ⅜"-16, Flat Washers (100) Each: ¼", 5/16", ⅜", and Metal Container, Fits Cabinet No. 4UJ35	Inch	**53WR26**
Metric Blue				
Alloy Steel Metric Blue				
255	24	Hex Head Cap Screws (10) Each: M6-1x20mm, x25mm, x30mm, x35mm, (5) Each: M6-1x40mm, M8-1.25x20mm, x25mm, x30mm, x35mm, x40mm, M10-1.5x20mm, x25mm, x30mm, x35mm, x40mm, Split Lock Washers (25) Each: M6, (20) Each: M8, M10, Flat Washers (25) Each: M6, (20) Each: M8, M10, Hex Nuts (10) Each: M6-1, M8-1.25, M10-1.5, and Plastic Container	Inch	**5YNH2**
525	24	Hex Head Cap Screws (25) Each: M6-1x20mm, x25mm, x30mm, x35mm, (10) Each: M6-1x40mm, M8-1.25x20mm, x25mm, x30mm, x35mm, M10-1.5x20mm, x25mm, x30mm, x35mm, (5) Each: M8-1.25x40mm, M10-1.5x40mm, Split Lock Washers (50) Each: M6, M8, (25) Each: M10, Flat Washers (50) Each: M6, M8, (25) Each: M10, Hex Nuts (25) Each: M6-1, M8-1.25, M10-1.5, and Metal Container	Inch	**5YNH1**

Automotive Assortments

- All assortments include tray

Item	Number of Pieces	Model Number	Item No.
30 Piece Wire Harness Assortment	30	8635	**12U248**
Black Nylon Push Type Retainer Assortment	175	8121	**12T292**
Black Sheet Metal Screw Assortment	420	8123	**12T294**
Black Trim Screw Assortment	210	8122	**12T293**
Body Shim Assortment	140	8101	**12T283**
Cage Nut Assortment	505	8667	**12U254**
Chrylser Hood Prop and Rod End Assortment	131	8169	**12T306**
Chrysler Door Trim Panel Assortment	115	8118	**12T289**
Cowl Fastener Retainer Assortment	168	8182	**12T317**
Door Hinge Pin / Bushing Kit	8	9833	**12U257**
Door Hinge Pin / Bushing Kit	8	10528	**12U259**
Door Hinge Pin / Bushing Kit	8	9905	**12U260**
Door Hinge Pin / Bushing Kit	7	10060	**12U262**
Door Hinge Pin / Bushing Kit	8	9940	**12U267**
Door Hinge Pin / Bushing Kit	10	10699	**12U270**
Door Pin and Bushing Assortment	86	8161	**12T303**
Door Rod and Hood Prop Assortment	310	8625	**12T324**
Ergo Tuflok Retainer Assortment	110	8180	**12T316**
Ergo Tuflok Retainer Assortment	280	8637	**12U249**
Flush Type Hole Plug Assortment	349	8165	**12T304**
Ford Door Trim Panel Assortment	116	8146	**12T299**
Ford Hood Prop and Rod End Assortment	100	8168	**12T305**
GM Door Panel Retainer Assortment	120	8116	**12T287**
GM Hood Prop and Rod End Assortment	137	8171	**12T308**
GM Rocker Panel Assortment	220	8620	**12T323**
Grill and Headlamp Grommet Assortment	330	8105	**12T284**
Honda / Acura Retainer Assortment	164	8179	**12T315**
Honda Retaier Assortment	121	8177	**12T313**

Item	Number of Pieces	Model Number	Item No.
Hood Seal & Insulation Retainer Assortment	331	8659	**12U251**
Hose Clamp Assortment	100	8701	**12U255**
Hyundia Retainer Assortment	405	8663	**12U253**
Import Door Lock Rod End Clip	128	8133	**12T295**
Import Door Lock Rod End Clip	860	8633	**12T325**
Import Door Lock Rod End Clip	425	8633X	**12U247**
Import Door Trim Panel Assortment	170	8109	**12T285**
License Plate Nut and Screw Assortment	520	8661	**12U252**
Master Body Shop System	6777	8410	**40K561**
Moulding Clip Assortment	154	8173	**12T309**
Nissan Retainer Assortment	123	8175	**12T311**
Panel Retainer Assortment	120	8115	**12T286**
Push On Nut Assortment	245	8145	**12T298**
Push Type Retainer Assortment	82	8120	**12T291**
Shield / Push Type Retainer Assortmnet	192	8119	**12T290**
Shield Retainer Assortment	210	8117	**12T288**
Toyota Nut, Grommet & Retainer Assortment	430	8639	**12U250**
Toyota Retainer Assortment	146	8174	**12T310**
Universal Door Panel & Hood Clip Assortment	197	8615	**12T322**
Universal Shield Retainer Assortment	168	8135	**12T296**
Universal Shield Retainer Assortment	336	8601	**12T319**
Universal Shield Retainer Assortment	311	8609	**12T320**
Universal Shield Retainer Assortment	204	8613	**12T321**
U Nut Assortment	210	8176	**12T312**
Weatherstrip Retainer Assortment	300	8150	**12T301**
Window Guide Assortment,42 Pc	42	8170	**12T307**
Wire Routing Clip Assortment	54	8140	**12T297**



Body Shim Assortment
No. 12T283



No. 4GUX9

Hex Head Cap Screw Assortments

Description	No. of Pieces	No. of Sizes	Size	Item No.
Hex Cap Screw Assortment				
Grade 5 Steel (USS), Chrome-Plated	120	24	1/4-20, 5/16-18, 3/8-16	**2FTZ9**
Hex Head Cap Screw Assortment				
Grade 5 Steel (SAE), Chrome-Plated	120	24	¼-28, 5⁄16-24, ⅜-24	**4GUX9**

Size	Item No.	Pkg. Qty.
Refills for No. 4GUX9		
1/4-28 x 5/8"	**4GVJ9**	5
1/4-28 x 3/4"	**4GVK1**	5
1/4-28 x 1"	**4GVK3**	5
1/4-28 x 1¼"	**4GVK4**	5
1/4-28 x 1½"	**4GVK5**	5
1/4-28 x 2"	**4GVK7**	5
5/16-24 x 5/8"	**4GVK9**	5
5/16-24 x 7/8"	**4GVL2**	5
5/16-24 x 1¾"	**4GVL6**	5
5/16-24 x 2"	**4GVL7**	5
3/8-24 x 3/4"	**4GVL9**	5
3/8-24 x 1"	**4GVN1**	5
3/8-24 x 1¼"	**4GVN2**	5
3/8-24 x 2"	**4GVN5**	5
Refills for No. 2FTZ9		
1/4-20 x 5/8"	**2FUR2**	5
1/4-20 x 3/4"	**2FUD8**	5
1/4-20 x 7/8"	**2FUH8**	5
1/4-20 x 1"	**2FUD9**	5
1/4-20 x 1¼"	**2FUN6**	5
1/4-20 x 1½"	**2FUA2**	5
1/4-20 x 1¾"	**2FUB8**	5
1/4-20 x 2"	**2FUH9**	5
1/4-20 x 2¼"	**2FUE1**	5
5/16-18 x 5/8"	**2FUR3**	5
5/16-18 x 3/4"	**2FUE2**	5
5/16-18 x 7/8"	**2FUB9**	5
5/16-18 x 1"	**2FUR4**	5
5/16-18 x 1¼"	**2FUA3**	5
5/16-18 x 1½"	**2FUJ1**	5
5/16-18 x 1¾"	**2JGE8**	5
5/16-18 x 2"	**2FUN7**	5
5/16-18 x 2¼"	**2FUE3**	5
3/8-16 x 3/4"	**2FUE4**	5
3/8-16 x 1"	**2FUE5**	5
3/8-16 x 1¼"	**2FUF9**	5
3/8-16 x 1½"	**2FUJ2**	5
3/8-16 x 1¾"	**2FUR5**	5
3/8-16 x 2"	**2JGG7**	5

KeepStock®
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed.
Space organized.
Time and money saved.

> Visit **grainger.com/keepstock**



Description	Item No.
72 Bin Assortment Kits	
Inch	
64 pc. Grade 5 Steel Zinc Plated	**42PA98**
64 pc. Grade 8 Steel Zinc Plated	**42PA99**
58 pc. 18-8 Stainless Steel	**42PC01**
Metric	
64 pc. Class 8.8 Steel Zinc Plated	**42PC02**
58 pc. A2 Stainless Steel	**42PC03**

Fastener Assortments with 72-Bin Cabinet

Convenient pigeonhole bin cabinet helps you keep frequently used fasteners organized and easy to access. Choose the preselected assortment that suits your needs. The extra bins give you space for specialty items.

Thread Size	Flat Washer	Lock Washer	Hex Nut	Locknut Nut	Hex Head Cap Screw Length							
Inch Kits Include												
¼"-20	X	X	X	X	½"	¾"	1"	1 ½"	2"			
5⁄16"-18	X	X	X	X	½"	¾"	1"	1 ½"	2"			
⅜"-16	X	X	X	X	½"	¾"	1"	1 ½"	2"	2 ½"	3"	4"
½"-13	X	X	X	X	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	
5⁄8"-11	X	X	X	X	1"	1 ½"	2"	2 ½"	3"	3 ½"	4"	
¾"-10	X	X	X	X	1 ½"	2"	2 ½"	3"	3 ½"	4"		
Metric Kits Include												
M6-1	X	X	X	X	20	25	40	50				
M8-1.25	X	X	X	X	20	25	40	50	60			
M10-1.5	X	X	X	X	20	25	40	50	60	70	100	
M12-1.75	X	X	X	X		25	40	50	60	70	100	
M16-2	X	X	X	X			40	50	60	70	100	
M20-2.5	X	X	X	X			40	50	60	70	100	

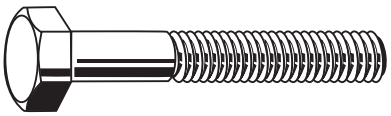
Description	Grade 5 Item No.	Pkg. Qty.	Grade 8 Item No.	Pkg. Qty.	18-8 (304) SS Item No.	Pkg. Qty.
Refill Packs						
Hex Head Cap Screw						
¼"-20 X ½"	**2CA46**	100	**10H326**	100	**3AUY9**	100
¼"-20 X ¾"	**2CA50**	100	**10E541**	100	**3AUV3**	100
¼"-20 X 1"	**2CA54**	100	**10H330**	100	**3AUV5**	100
¼"-20 X 1½"	**1KA23**	100	**10E547**	100	**3AVE4**	100
¼"-20 X 2"	**22RZ72**	50	**22TA57**	50	**40TW46**	50
5⁄16"-18 X ½"	**2CA78**	100	**10H331**	100	**3AUT8**	100
5⁄16"-18 X ¾"	**2CA82**	100	**10H332**	100	**3AUT6**	100
5⁄16"-18 X 1"	**2CA86**	100	**10H333**	100	**23LA83**	50
5⁄16"-18 X 1½"	**1KA37**	100	**10E552**	100	**3AUV8**	50
5⁄16"-18 X 2"	**22TA88**	50	**23LA27**	50	**23LA84**	50
⅜"-16 X ½"	**22TC02**	50	**23LA30**	50	**3AUW8**	50
⅜"-16 X ¾"	**23KZ55**	50	**23LA31**	50	**3AUU1**	50
⅜"-16 X 1"	**23KZ56**	50	**23LA32**	50	**3AUW4**	50
⅜"-16 X 1½"	**22TC06**	50	**22TH06**	50	**3AUY5**	25
⅜"-16 X 2"	**23KZ58**	25	**23LA33**	25	**3AVD1**	25
⅜"-16 X 2½"	**23KZ60**	25	**22TH09**	25	**3AUU6**	25
⅜"-16 X 3"	**23KZ61**	25	**23LA34**	25	**3AVG6**	10
⅜"-16 X 4"	**23KZ62**	10	**22TH11**	10	**3AVA2**	10
½"-13 X 1"	**23KZ74**	25	**23LA44**	25	**24K911**	10
½"-13 X 1¼"	**22TC38**	25	**22TH30**	25	**24K912**	10
½"-13 X 1½"	**22TC39**	25	**22TH31**	25	**24K913**	10
½"-13 X 2"	**23KZ75**	10	**23LA45**	10	**3AUV4**	10
½"-13 X 2½"	**22TC41**	10	**22TH34**	10	**3AVA7**	10
½"-13 X 3"	**23KZ77**	10	**23LA46**	10	**24K919**	5
½"-13 X 4"	**23KZ79**	5	**23LA48**	5	**3AVU7**	5
5⁄8"-11 X 1"	**22TC62**	10	**25DN57**	10	**3AUU4**	10
5⁄8"-11 X 1½"	**22TC64**	10	**30Z447**	10	**3AUU9**	10
5⁄8"-11 X 2"	**22TC66**	5	**30Z449**	5	**24K946**	5
5⁄8"-11 X 2½"	**23KZ84**	5	**22TH55**	5	**3AVT8**	5
5⁄8"-11 X 3"	**22TC69**	5	**22TH57**	5	**3AVX3**	5
5⁄8"-11 X 3½"	**22TC70**	5	**22TH58**	5	**3AVX9**	5
5⁄8"-11 X 4"	**22TC71**	5	**22TH59**	5	**3AVX8**	5
¾"-10 X 1½"	**22TC87**	10	**22TH72**	10	**3AUU3**	5
¾"-10 X 2"	**22TC89**	5	**30Z455**	5	**3AUU5**	5
¾"-10 X 2½"	**22TC90**	5	**30Z456**	5	**24K970**	5
¾"-10 X 3"	**22TC92**	5	**22TH77**	5	**3AVR5**	5
¾"-10 X 3½"	**22RZ74**	5	**22TH79**	5	**3AVT3**	5
¾"-10 X 4"	**22TC94**	5	**22TH80**	5	**3AVT2**	5
Hex Nut						
¼"-20	**4FCA9**	100	**3HDZ2**	100	**22UK70**	50
5⁄16"-18	**3HEE8**	100	**3HED5**	100	**22YK24**	50
⅜"-16	**3HEF1**	100	**3HED7**	100	**41FV08**	50
½"-13	**4FCC2**	50	**3HED8**	50	**40TW73**	25
5⁄8"-11	**3HEF6**	25	**3HEA4**	25	**1WB44**	25
¾"-10	**12P540**	20	**12P573**	20	**1WB48**	20
Lock Nut						
¼"-20	**5TJD2**	100	**4FAR9**	100	**22RV96**	50
5⁄16"-18	**5TJD3**	100	**4FAU2**	100	**22RV97**	50
⅜"-16	**29DU67**	50	**26LG96**	50	**3PDG9**	50
½"-13	**22RV70**	25	**29DM64**	25	**22RV98**	10
5⁄8"-11	**29DU69**	10	**26LG99**	10	**3PDH8**	10
¾"-10	**22RV71**	10	**26LH01**	10	**3PDJ1**	5
SAE Washer						
¼"	**1JY70**	100	**6YPJ5**	100	**25DK30**	50
5⁄16"	**1JY72**	100	**6YPJ6**	50	**25DK31**	50
⅜"	**1JY74**	100	**6YPJ7**	50	**25DK32**	50
½"	**1JY78**	50	**6YPJ9**	25	**25DK34**	25
5⁄8"	**1JY82**	25	**6YPK1**	25	**25DK36**	25
¾"	**25DK17**	20	**6YPK2**	20	**25DK37**	20
Split Lock Washer						
¼"	**2DA89**	100	**2DB26**	100	**23NJ50**	50
5⁄16"	**2DA91**	100	**2DB28**	100	**23NJ51**	50
⅜"	**22UH80**	50	**22UJ47**	50	**23NJ52**	50
½"	**22UH82**	25	**22UJ49**	25	**23NJ54**	10
5⁄8"	**22UH84**	10	**22UJ51**	10	**23NJ55**	10
¾"	**22UH85**	10	**22UJ52**	10	**23NJ56**	5

Description	Class 8.8 Item No.	Pkg. Qty.	A2 SS Item No.	Pkg. Qty.
Refill Packs				
Hex Head Cap Screw				
M6-1.00 X 20mm	**6AU89**	100	**22TG06**	50
M6-1.00 X 25mm	**6AU90**	100	**22TG07**	50
M6-1.00 X 40mm	**22TL13**	100	**38DZ08**	50
M6-1.00 X 50mm	**22TL15**	100	**25DA56**	50
M8-1.25 X 20mm	**6AV25**	100	**22TN71**	50
M8-1.25 X 25mm	**6AV27**	100	**22TN73**	50
M8-1.25 X 40mm	**6AV31**	100	**22TN76**	50
M8-1.25 X 50mm	**22TL25**	100	**25DA64**	50
M8-1.25 X 60mm	**22TL27**	100	**25DA66**	50
M10-1.50 X 20mm	**22TN05**	100	**22TN84**	50
M10-1.50 X 25mm	**22TN06**	100	**22TN85**	50
M10-1.50 X 40mm	**22TN09**	50	**22TN88**	25
M10-1.50 X 50mm	**6AY34**	50	**25DA69**	25
M10-1.50 X 60mm	**22TL41**	50	**25DA71**	25
M10-1.50 X 70mm	**22TL43**	50	**22TM65**	25
M10-1.50 X 100mm	**22TL47**	50	**22TM68**	25
M12-1.75 X 25mm	**22TN14**	50	**22TN96**	25
M12-1.75 X 40mm	**22TN17**	50	**22TN99**	25
M12-1.75 X 50mm	**25CY32**	50	**25DA77**	25
M12-1.75 X 60mm	**22TL56**	50	**25DA79**	25
M12-1.75 X 70mm	**22TL58**	25	**22TM71**	10
M12-1.75 X 100mm	**22TL62**	25	**22TM74**	10
M16-2.00 X 40mm	**22TN30**	25	**22TP12**	10
M16-2.00 X 50mm	**22TN32**	25	**22TP14**	10
M16-2.00 X 60mm	**22TL80**	25	**22TM82**	10
M16-2.00 X 70mm	**22TL81**	10	**6BU28**	5
M16-2.00 X 100mm	**22TL85**	10	**22TM86**	5
M20-2.50 X 40mm	**6AV84**	10	**22TP17**	5
M20-2.50 X 50mm	**6AV86**	10	**22TP19**	5
M20-2.50 X 60mm	**25DF60**	10	**25DG99**	5
M20-2.50 X 70mm	**25DF62**	10	**25DH01**	5
M20-2.50 X 100mm	**22TL94**	10	**22TM92**	5
Hex Nut				
M6-1.00	**6CA75**	100	**22YK33**	50
M8-1.25	**6CA77**	100	**6CA19**	50
M10-1.50	**6CA78**	100	**22UK61**	50
M12-1.75	**22UK55**	50	**6CA21**	25
M16-2.00	**22UK56**	25	**6CA23**	10
M20-2.50	**22UK57**	10	**6CA25**	5
Lock Nut				
M6-1.00	**4CAG3**	100	**26WC52**	50
M8-1.25	**4CAG5**	100	**6CB72**	50
M10-1.50	**22RW50**	100	**22RW65**	50
M12-1.75	**19NR89**	50	**22RW66**	25
M16-2.00	**4CAG9**	25	**22RW68**	10
M20-2.50	**22RW52**	10	**22RW70**	5
SAE Washer				
M6	**6EY59**	100	**26WC34**	50
M8	**6EY63**	100	**26WC36**	50
M10	**6EY65**	100	**26WC37**	50
M12	**22UH22**	50	**22UE59**	25
M16	**22UE53**	25	**26WC38**	10
M20	**22UE54**	10	**26WC39**	5
Split Lock Washer				
M6	**6FB85**	100	**22UJ72**	50
M8	**6FB87**	100	**22UJ73**	50
M10	**6FB89**	100	**22UJ74**	50
M12	**22UK10**	50	**22UK20**	25
M16	**22UK12**	25	**22UK21**	10
M20	**22UK14**	10	**22UK22**	5

Screws longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Grade 2 Steel Hex Head Cap Screws

Meet ASME B18.2.1 standards.



Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.
¼"-20 Thread Size				
½"	5NYR4	100	5JTV6	100
⅝"	5NYR5	100	5JTD6	100
¾"	5NYR6	100	5JTV5	100
⅞"	5NYR7	100	5JTD7	100
1"	5NYR8	100	5JTV4	100
1¼"	5NYR9	100	5JTV3	100
1½"	5NYT0	100	5JTV2	100
1¾"	5NYT1	100	5JTV1	100
2"	22RZ31	50	22RZ66	50
2¼"	22RW81	50	22RX95	50
2½"	22RW82	50	22RX96	50
2¾"	22RW83	50	22RX97	50
3"	22RW84	50	22RX98	50
3¼"	22RW85	50	22RX99	50
3½"	22RW86	50	22RY01	50
4"	22RW88	25	22RY03	25
4½"	22RW89	25	22RY04	25
5"	22RW90	25	22RY05	25
5½"	22RW91	25	22RY06	25
6"	22RW92	25	22RY07	25
⅝"-18 Thread Size				
½"	5NYU5	100	5JTU2	100
⅝"	5NYU6	100	5JTE3	100
¾"	5NYU7	100	5JTU1	100
⅞"	5NYU8	100	5JTE4	100
1"	5NYU9	100	5JTU0	100
1¼"	5NYV0	100	5JTT9	100
1½"	5NYV1	100	5JTT8	100
1¾"	22RW93	50	22RY08	50
2"	22RW94	50	22RY09	50
2¼"	22RW95	50	22RY10	50
2½"	22RW96	50	22RY11	50
2¾"	22RW97	50	22RY12	50
3"	22RW98	50	22RY13	50
3¼"	5NYV8	50	5JTE7	50
3½"	5NYV9	50	5JTT3	50
3¾"	22RW99	25	22RY14	25
4"	22RX01	25	22RY15	25
4½"	22RX02	25	22RY16	25
5"	22RX03	25	22RY17	25
5½"	22RX04	25	22RY18	25
6"	22RX05	25	22RY19	25
⅜"-16 Thread Size				
½"	22RX06	50	22RY20	50
⅝"	22RX07	50	22RY21	50
¾"	22RX08	50	22RY22	50
⅞"	22RX09	50	22RY23	50
1"	22RX10	50	22RY24	50
1¼"	22RX11	50	22RY25	50
1½"	22RX12	50	22RY26	50
1¾"	22RX13	50	22RY27	50
2"	22RX14	25	22RY28	25
2¼"	22RX15	25	22RY29	25
2½"	22RX16	25	22RY30	25
2¾"	22RX17	25	22RY31	25
3"	22RX18	25	22RY32	25
3¼"	22RX19	25	22RY33	25
3½"	22RX20	25	22RY34	25
3¾"	22RX21	25	22RY35	25
4"	22RX22	10	22RY36	10
4½"	22RX23	10	22RY37	10
5"	22RX24	10	22RY38	10
5½"	22RX25	10	22RY39	10
6"	22RX26	10	22RY40	10
7⁄16"-14 Thread Size				
¾"	5NYY7	100	22RY41	25
1"	22RX28	25	22RY42	25
1¼"	22RX29	25	22RY43	25
1½"	22RX30	25	22RY44	25
1¾"	22RX31	25	22RY45	25
2"	22RX32	25	22RY46	25
2¼"	22RX33	10	22RY47	10
2½"	22RX34	10	22RY48	10
2¾"	22RX35	10	22RY49	10
3"	22RX36	10	22RY50	10
3½"	22RX37	10	22RY51	10
4"	22RX38	10	22RY52	10
4½"	22RX39	10	22RY53	10
5"	22RX40	10	22RY54	10
5½"	22RX41	10	22RY55	10
6"	22RX42	5	22RY56	5
½"-13 Thread Size				
¾"	22RX43	25	22RY57	25
1"	22RX44	25	22RY58	25
1¼"	22RX45	25	22RY59	25
1½"	22RX46	25	22RY60	25
1¾"	22RX47	25	22RY61	25
2"	22RX48	10	22RY62	10
2¼"	22RX49	10	22RY63	10
2½"	22RX50	10	22RY64	10
2¾"	22RX51	10	22RY65	10
3"	22RX52	10	22RY66	10
3¼"	22RX53	10	22RY67	10
3½"	22RX54	10	22RY68	10
3¾"	22RX55	10	22RY69	10
4"	22RX56	5	22RY70	5
4½"	22RX57	5	22RY71	5
5"	22RX58	5	22RY72	5
5½"	22RX59	5	22RY73	5
6"	22RX60	5	22RY74	5
⅝"-11 Thread Size				
1"	22RX61	10	22RY75	10
1¼"	22RX62	10	22RY76	10
1½"	22RX63	10	22RY77	10
1¾"	22RX64	10	22RY78	10
2"	22RX65	5	22RY79	5
2¼"	22RX66	5	22RY80	5
2½"	22RX67	5	22RY81	5
2¾"	22RX68	5	22RY82	5
3"	22RX69	5	22RY83	5
3¼"	22RX70	5	22RY84	5
3½"	22RX71	5	22RY85	5
3¾"	22RX72	5	22RY86	5
4"	22RX73	5	22RY87	5
4½"	22RX74	5	22RY88	5
5"	22RX75	5	22RY89	5
5½"	22RX76	5	22RY90	5
6"	22RX77	5	22RY91	5
¾"-10 Thread Size				
1"	22RX78	10	22RY92	10
1¼"	22RX79	10	22RY93	10
1½"	22RX80	10	22RY94	10
1¾"	22RX81	10	22RY95	10
2"	22RX82	5	22RY96	5
2¼"	22RX83	5	22RY97	5
2½"	22RX84	5	22RY98	5
2¾"	22RX85	5	22RY99	5
3"	22RX86	5	22RZ01	5
3¼"	22RX87	5	22RZ02	5
3½"	22RX88	5	22RZ03	5
3¾"	22RX89	5	22RZ04	5
4"	22RX90	5	22RZ05	5
4½"	22RX91	5	22RZ06	5
5"	22RX92	5	22RZ07	5
5½"	22RX93	5	22RZ08	5
6"	22RX94	5	22RZ09	5

Grade B7 Steel Hex Head Cap Screws

- Plain finish Meet ASTM A193/ ASME B18.2.1 standards.



Length	Item No.	Pkg. Qty.
Hex Head		
¼"-20 Thread Size		
½"	1VXR1	10
¾"	1VXR6	10
1"	1VXY7	10
1½"	1VXZ9	10
1¾"	1VZA1	10
2"	1VZA2	10
2½"	1VZA4	10
3"	1VZA6	10
5⁄16"-18 Thread Size		
¾"	1VZA7	10
⅞"	1VZA8	10
1"	1VZA9	10
1¾"	1VZB3	10
2"	1VZB4	10
2½"	1VZB6	10
2¾"	1VZB7	10
⅜"-16 Thread Size		
¾"	1VZC1	10
⅞"	1VZC2	10
1"	1VZC3	10
1¼"	1VZC4	10
1½"	1VZC5	10
1¾"	1VZC6	10
2¼"	1VZC8	10
2½"	1VZC9	10
2¾"	1VZD1	10
4"	1VZD5	10
5"	1VZD7	10
7⁄16"-14 Thread Size		
¾"	1VZD8	10
1"	1VZD9	10
1¼"	1VZE1	10
1¾"	1VZE3	10
2"	1VZE4	10
2½"	1VZE5	10
4"	1VZE7	10
Heavy Hex Head		
½"-13 Thread Size		
1"	1VZE8	10
1¼"	1VZE9	10
1½"	1VZF1	10
1¾"	1VZF2	10
2"	1VZF3	10
2¼"	1VZF4	10
2½"	1VZF5	10
2¾"	1VZF6	10
3"	1VZF7	10
3¼"	1VZF8	10
3½"	1VZF9	10
3¾"	1VZG1	10
4"	1VZG2	10
5"	1VZG4	10
⅝"-11 Thread Size		
1¼"	1VZG5	5
1½"	1VZG6	5
1¾"	1VZG7	5
2"	1VZG8	5
2¼"	1VZG9	5
2½"	1VZH1	5
2¾"	1VZH2	5
3"	1VZH3	5
3¼"	1VZH4	5
3½"	1VZH5	5
4"	1VZH6	5
4½"	1VZH7	5
5"	1VZH8	5
¾"-10 Thread Size		
1½"	1VZH9	5
1¾"	1VZJ1	5
2"	1VZJ2	5
2¼"	1VZJ3	5
2½"	1VZJ4	5
2¾"	1VZJ5	5
3"	1VZJ6	5
3¼"	1VZJ7	5
3½"	1VZJ8	5
4"	1VZJ9	5
4½"	1VZK1	5
5"	1VZK2	5
5½"	1VZK3	5
6"	1VZK4	5
⅞"-9 Thread Size		
2"	1VZK6	5
2¼"	1VZK7	5
2¾"	1VZK9	5
3"	1VZL1	5
3¼"	1VZL2	5
3½"	1VZL3	5
4"	1VZL5	5
4½"	1VZL6	5
5"	1VZL7	5
1"-8 Thread Size		
2"	1VZL8	5
2¼"	1VZL9	5
2½"	1VZN1	5
2¾"	1VZN2	5
3"	1VZN3	5
3½"	1VZN5	5
4"	1VZN6	5



Grade 5 Steel Hex Head Cap Screws

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Grade 5 is comparable to metric Property Class 8.8. Meet ASME B18.2.1 standards.

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.	BLACK OXIDE Item No.	BLACK OXIDE Pkg. Qty.
¼"-20 Thread Size						
½"	3ENY2	100	2CA46	100	—	—
⅝"	3ENY3	100	2CA48	100	—	—
¾"	3ENY4	100	2CA50	100	—	—
⅞"	3ENY5	100	2CA52	100	—	—
1"	3ENY6	100	2CA54	100	—	—
1¼"	3ENY7	100	—	—	—	—
1½"	3ENY8	100	1KA23	100	—	—
1⅝"	22RZ11	100	22TA77	100	—	—
1¾"	3ENY9	100	1KA24	100	—	—
2"	22RZ71	50	22RZ72	50	—	—
2¼"	22RZ12	50	23KZ50	50	—	—
2½"	22RZ13	50	23KZ51	50	—	—
2¾"	22RZ14	50	23KZ52	50	—	—
3"	22RZ15	50	23KZ53	50	—	—
3¼"	22RZ16	50	22TA78	50	—	—
3½"	22RZ17	50	22TA79	50	—	—
3¾"	22RZ18	50	25CL70	50	—	—
4"	3ENZ9	25	23KZ54	25	—	—
4¼"	22RZ19	25	22TA80	25	—	—
4½"	3EPA1	25	22TA81	25	—	—
5"	3EPA2	25	22TA82	25	—	—
5½"	3EPA3	25	22TA83	25	—	—
6"	22RZ20	25	22TA84	25	—	—
¼"-28 Thread Size						
½"	—	—	2CA71	100	—	—
⅝"	3EPA6	100	2CA73	100	—	—
¾"	3EPA7	100	2CA75	100	—	—
1"	3EPA8	100	2CA76	100	—	—
1¼"	3EPA9	100	1KE17	100	—	—
1⅜"	22TD28	100	22TE47	100	—	—
1½"	3EPC1	100	1KE18	100	—	—
1¾"	3EPC2	100	1KE19	100	—	—
2"	22TA25	50	22TA26	50	—	—
2¼"	22TD29	50	22TE48	50	—	—
2½"	22TD30	50	22TE49	50	—	—
2¾"	22TD31	50	22TE50	50	—	—
3"	22TD32	50	22TE51	50	—	—
3½"	22TD34	50	22TE52	50	—	—
4"	3EPD2	25	22TE53	25	—	—
4½"	3EPD3	25	22TE54	25	—	—
5"	3EPD4	25	22TE55	25	—	—
5½"	3EPD5	25	22TE56	25	—	—
6"	22TD36	25	—	—	—	—
⅜"-18 Thread Size						
½"	3EPD7	100	2CA78	100	—	—
⅝"	3EPD8	100	2CA80	100	—	—
¾"	3EPD9	100	2CA82	100	—	—
⅞"	3EPE1	100	2CA84	100	—	—
1"	3EPE2	100	2CA86	100	—	—
1¼"	3EPE3	100	2CA89	100	—	—
1⅜"	22RZ21	100	22TA85	100	—	—
1½"	3EPE4	100	1KA37	100	—	—
1⅝"	22RZ22	100	22TA86	100	—	—
1¾"	22RZ23	50	22TA87	50	—	—
2"	22RZ24	50	22TA88	50	—	—
2¼"	22RZ25	50	22TA89	50	—	—
2½"	22RZ26	50	22TA90	50	—	—
2¾"	22RZ27	50	22TA91	50	—	—
3"	22RZ28	50	22TA92	50	—	—
3¼"	25CK81	50	46F542	50	—	—
3½"	4RVD7	50	1KA44	50	—	—
3¾"	25CK82	25	25CL73	25	—	—
4"	3EPF3	25	22TA93	25	—	—
4¼"	22RZ29	25	22TA94	25	—	—
4½"	3EPF4	25	22TA95	25	—	—
5"	3EPF5	25	22TA96	25	—	—
5½"	3EPF6	25	22TA97	25	—	—
6"	22RZ30	25	22TA98	25	—	—
⅝"-24 Thread Size						
½"	—	—	2CB15	100	—	—
⅝"	3EPG2	100	2CB17	100	—	—
¾"	3EPG3	100	2CB19	100	—	—
1"	3EPG4	100	25CN32	100	—	—
1½"	—	—	1KE31	100	—	—
1¾"	22TD37	50	22TE58	50	—	—
2"	22TD38	50	22TE59	50	—	—
2¼"	22TD39	50	22TE60	50	—	—
2½"	22TD40	50	22TE61	50	—	—
2¾"	22TD41	50	22TE62	50	—	—
3"	22TD42	50	22TE63	50	—	—
3½"	—	—	1KE38	50	—	—
4"	3EPH5	25	22TE64	25	—	—
4½"	3EPH6	25	22TE65	25	—	—
5"	3EPH7	25	22TE66	25	—	—
5½"	3EPH8	25	—	—	—	—
6"	22TD43	25	—	—	—	—
⅜"-16 Thread Size						
½"	22RZ33	50	22TC02	50	—	—
⅝"	22RZ34	50	22TC03	50	—	—
¾"	22RZ35	50	23KZ55	50	—	—
⅞"	22RZ36	50	22TC04	50	—	—
1"	22RZ37	50	23KZ56	50	—	—
1¼"	22RZ38	50	22TC05	50	—	—
1½"	—	—	22TC06	50	22RZ39	50
1¾"	22RZ40	50	23KZ57	50	—	—
2"	22RZ41	25	23KZ58	25	—	—
2¼"	—	—	23KZ59	25	—	—
2½"	22RZ43	25	23KZ60	25	—	—
2¾"	22RZ44	25	22TC07	25	—	—
3"	22RZ45	25	23KZ61	25	—	—
3¼"	22RZ46	25	22TC08	25	—	—
3½"	22RZ47	25	22TC09	25	—	—
3¾"	22RZ48	25	22TC10	25	—	—
4"	22RZ49	10	23KZ62	10	—	—
4¼"	22RZ50	10	22TC11	10	—	—
4½"	22RZ51	10	22TC12	10	—	—
4¾"	22RZ52	10	22TC13	10	—	—
5"	22RZ53	10	22TC14	10	—	—
5½"	22RZ54	10	22TC15	10	—	—
5¾"	22RZ55	10	22TC16	10	—	—
6"	3EPL3	10	22TC17	10	—	—
⅜"-24 Thread Size						
½"	22TD44	50	22TE69	50	—	—
⅝"	22TD45	50	22TE70	50	—	—
¾"	22TD46	50	22TE71	50	—	—
⅞"	22TD47	50	22TE72	50	—	—
1"	22TD48	50	22TE73	50	—	—
1¼"	22TD49	50	25CN34	50	—	—
1½"	22TD50	50	22TE74	50	—	—
1¾"	22TD51	50	22TE75	50	—	—
2"	22TD52	25	22TE76	25	—	—
2¼"	22TD53	25	22TE77	25	—	—
2½"	22TD54	25	22TE78	25	—	—
2¾"	22TD55	25	22TE79	25	—	—
3"	22TD56	25	22TE80	25	—	—
3½"	22TD57	25	22TE81	25	—	—
4"	22TD58	10	22TE82	10	—	—
4¼"	22TD59	10	22TE83	10	—	—
4½"	22TD60	10	22TE84	10	—	—
4¾"	22TD61	10	22TE85	10	—	—
5"	22TD62	10	22TE86	10	—	—
5¼"	22TD63	10	22TE87	10	—	—
5½"	22TD64	10	—	—	—	—
5¾"	22TD65	10	22TE89	10	—	—
6"	3FNF9	10	22TE90	10	—	—
7⁄16"-14 Thread Size						
¾"	22RZ61	25	23KZ63	25	—	—
1"	—	—	23KZ64	25	—	—
1¼"	22RZ64	25	22TC25	25	—	—
1½"	22RZ65	25	22TC26	25	—	—
1¾"	3FNG6	25	23KZ65	25	—	—
2"	3FNG7	25	23KZ66	25	—	—
2¼"	22RZ67	10	23KZ67	10	—	—
2½"	22RZ68	10	23KZ68	10	—	—
2¾"	22RZ69	10	23KZ69	10	—	—
3"	22RZ70	10	23KZ70	10	—	—
3¼"	25CK84	10	25CL75	10	—	—
3½"	3FNH3	10	23KZ71	10	—	—
3¾"	25CK85	10	25CL76	10	—	—
4"	3FNH4	10	23KZ72	10	—	—
4½"	3FNH5	10	22TC27	10	—	—
5"	3FNH6	10	22TC28	10	—	—
5½"	3FNH7	10	22TC29	10	—	—
6"	22RZ75	5	22TC30	5	—	—
7⁄16"-20 Thread Size						
¾"	22TD67	25	22TE92	25	—	—
1"	22TD69	25	22TE93	25	—	—
1¼"	22TD70	25	25CN35	25	—	—
1½"	22TD71	25	25CN36	25	—	—
1¾"	3FNJ7	25	22TE94	25	—	—
2"	3FNJ8	25	22TE95	25	—	—
2¼"	22TD73	10	22TE96	10	—	—
2½"	22TD74	10	22TE97	10	—	—
3"	22TD76	10	22TE98	10	—	—
3½"	3FNK4	10	22TE99	10	—	—
4"	3FNK5	10	22TF01	10	—	—
4½"	3FNK6	10	22TF02	10	—	—
5"	3FNK7	10	22TF03	10	—	—
5½"	3FNK8	10	22TF04	10	—	—
6"	22TD81	5	22TF05	5	—	—
½"-13 Thread Size						
¾"	22RZ82	25	23KZ73	25	—	—
⅞"	22RZ83	25	22TC37	25	—	—
1"	22RZ84	25	23KZ74	25	—	—
1¼"	22RZ85	25	22TC38	25	—	—
1½"	22RZ86	25	22TC39	25	—	—
1¾"	22RZ87	25	22TC40	25	—	—
2"	22RZ88	10	23KZ75	10	—	—
2¼"	22RZ89	10	23KZ76	10	—	—
2½"	22RZ90	10	22TC41	10	—	—
2¾"	22RZ91	10	22TC42	10	—	—
3"	22RZ92	10	23KZ77	10	—	—
3¼"	22RZ93	10	22TC43	10	—	—
3½"	22RZ94	10	23KZ78	10	—	—
3¾"	22RZ95	10	22TC44	10	—	—
4"	22RZ96	5	23KZ79	5	—	—
4¼"	22RZ97	5	22TC45	5	—	—
4½"	22RZ98	5	22TC46	5	—	—
4¾"	22RZ99	5	22TC47	5	—	—
5"	22TA01	5	23KZ80	5	—	—
5¼"	22TA02	5	22TC48	5	—	—
5½"	22TA03	5	22TC49	5	—	—
6"	22TA04	5	22TC50	5	—	—
½"-20 Thread Size						
¾"	22TD82	25	22TF06	25	—	—
1"	22TD83	25	22TF07	25	—	—
1¼"	22TD84	25	25CN37	25	—	—
1½"	22TD85	25	25CN38	25	—	—
1¾"	22TD86	25	—	—	—	—
2"	22TD87	10	22TF08	10	—	—
2¼"	22TD88	10	22TF09	10	—	—
2½"	22TD89	10	22TF10	10	—	—
2¾"	22TD90	10	22TF11	10	—	—
3"	22TD91	10	22TF12	10	—	—
3½"	22TD92	10	22TF13	10	—	—
4"	22TD93	5	22TF14	5	—	—
4¼"	22TD94	5	22TF15	5	—	—
4½"	22TD95	5	22TF16	5	—	—
4¾"	22TD96	5	22TF17	5	—	—
5"	22TD97	5	22TF18	5	—	—
5½"	22TD98	5	22TF19	5	—	—
6"	22TD99	5	22TF20	5	—	—
9⁄16"-12 Thread Size						
1"	—	—	2CE45	25	—	—
1¼"	—	—	2CE48	25	—	—
1½"	—	—	2CE51	25	—	—
1¾"	—	—	22RZ73	10	—	—
2"	3FNU1	10	22TC56	10	—	—
2¼"	25CK90	10	25CL80	10	—	—
2½"	3FNU2	10	23KZ81	10	—	—
2¾"	25CK91	10	25CL81	10	—	—
3"	3FNU3	10	23KZ82	10	—	—
3¼"	25CK92	10	25CL82	10	—	—
3½"	3FNU4	10	23KZ83	10	—	—
3¾"	25CK93	10	25CL83	10	—	—
4"	3FNU5	5	22TC57	5	—	—
4½"	3FNU6	5	22TC58	5	—	—
5"	3FNU7	5	22TC59	5	—	—
5½"	3FNU8	5	22TC60	5	—	—
6"	3FNU9	5	22TC61	5	—	—
9⁄16"-18 Thread Size						
1"	4RUZ2	25	2CE60	25	—	—
1¼"	4RUZ3	25	—	—	—	—
1½"	4RUZ4	25	25CN39	25	—	—
1¾"	3FNV4	10	25CN40	10	—	—
2"	3FNV5	10	22TF25	10	—	—
2½"	3FNV6	10	22TF26	10	—	—
3"	3FNV7	10	22TF27	10	—	—
3½"	3FNV8	10	22TF28	10	—	—
4"	3FNV9	5	22TF29	5	—	—
4½"	3FNW1	5	22TF30	5	—	—
5"	3FNW2	5	—	—	—	—
5½"	25CM84	5	—	—	—	—
6"	3FNW3	5	—	—	—	—
⅝"-11 Thread Size						
1"	22TA13	10	22TC62	10	—	—
1¼"	22TA14	10	22TC63	10	—	—
1½"	22TA15	10	22TC64	10	—	—
1¾"	22TA16	10	22TC65	10	—	—
2"	22TA17	5	22TC66	5	—	—
2¼"	22TA18	5	22TC67	5	—	—
2½"	22TA19	5	23KZ84	5	—	—
2¾"	22TA20	5	22TC68	5	—	—
3"	22TA21	5	22TC69	5	—	—
3¼"	25CK94	5	25CL84	5	—	—
3½"	22TA22	5	22TC70	5	—	—
3¾"	25CK95	5	25CL85	5	—	—
4"	3FNX5	5	22TC71	5	—	—
4¼"	22TA23	5	22TC72	5	—	—
4½"	3FNX6	5	22TC73	5	—	—
4¾"	22TA24	5	22TC74	5	—	—
5"	3FNX7	5	22TC75	5	—	—
5½"	3FNX8	5	22TC76	5	—	—
6"	3FNX9	5	22TC77	5	—	—
⅝"-18 Thread Size						
1"	22TE06	10	22TF33	10	—	—
1¼"	22TE07	10	—	—	—	—
1½"	22TE08	10	25CN41	10	—	—
1¾"	22TE09	10	25CN42	10	—	—
2"	22TE10	5	22TF34	5	—	—
2¼"	22TE11	5	25CN43	5	—	—
2½"	22TE12	5	22TF35	5	—	—
2¾"	22TE13	5	22TF36	5	—	—
3"	22TE14	5	22TF37	5	—	—
3¼"	25CM85	5	25CN44	5	—	—
3½"	22TE15	5	22TF38	5	—	—
4"	3FNZ8	5	22TF39	5	—	—
4¼"	22TE16	5	22TF40	5	—	—
4½"	3FNZ9	5	22TF41	5	—	—
4¾"	22TE17	5	22TF42	5	—	—
5"	3FPA1	5	22TF43	5	—	—
5½"	3FPA2	5	—	—	—	—
6"	3FPA3	5	—	—	—	—
¾"-10 Thread Size						
1"	3FPA6	10	23KZ85	10	—	—
1¼"	3FPA7	10	22TC86	10	—	—
1½"	3FPA8	10	22TC87	10	—	—
1¾"	3FPA9	10	22TC88	10	—	—
2"	22TA36	5	22TC89	5	—	—
2¼"	25CK99	5	25CL88	5	—	—
2½"	22TA37	5	22TC90	5	—	—
2¾"	22TA38	5	22TC91	5	—	—
3"	3FPC4	5	22TC92	5	—	—
3¼"	3FPC5	5	22TC93	5	—	—
3½"	3FPC6	5	22RZ74	5	—	—
3¾"	25CL01	5	25CL89	5	—	—
4"	3FPC7	5	22TC94	5	—	—
4¼"	22TA39	5	22TC95	5	—	—
4½"	3FPC8	5	22TA11	5	—	—
4¾"	22TA40	5	22TC96	5	—	—
5"	3FPC9	5	22TC97	5	—	—
5¼"	22TA42	5	22TC98	5	—	—
5½"	3FPD1	5	22TC99	5	—	—
6"	3FPD2	5	22TD01	5	—	—
¾"-16 Thread Size						
1"	3FPE1	10	22TF49	10	—	—
1¼"	3FPE2	10	—	—	—	—
1½"	3FPE3	10	25CN45	10	—	—
1¾"	3FPE4	10	—	—	—	—
2"	22TE24	5	22TF50	5	—	—
2¼"	25CM89	5	25CN46	5	—	—
2½"	22TE25	5	25CN47	5	—	—
2¾"	25CM90	5	25CN48	5	—	—
3"	3FPE7	5	22TF51	5	—	—
3½"	3FPE8	5	22TA27	5	—	—
4"	3FPE9	5	22TF52	5	—	—
4¼"	22TE26	5	22TF53	5	—	—
4½"	3FPF1	5	22TA28	5	—	—
4¾"	22TE27	5	22TF54	5	—	—
5"	3FPF2	5	22TF55	5	—	—
5½"	3FPF3	5	22TF56	5	—	—
6"	3FPF4	5	22TF57	5	—	—
⅞"-9 Thread Size						
1½"	22TA49	5	22TD06	5	—	—
1¾"	25CL06	5	25CL97	5	—	—
2"	22TA50	5	—	—	—	—
2¼"	22TA51	5	22TD08	5	—	—
2½"	22TA52	5	22TD09	5	—	—
2¾"	25CL07	5	25CL98	5	—	—
3"	3FPG3	5	—	—	—	—
3½"	3FPG4	5	—	—	—	—
3¾"	25CL09	5	25CM01	5	—	—
4"	3FPG5	5	22TD11	5	—	—
4½"	3FPG6	5	22TD13	5	—	—
5"	3FPG7	5	22TD14	5	—	—
5½"	3FPG8	5	—	—	—	—
6"	22TA60	1	—	—	—	—
⅞"-14 Thread Size						
1½"	25CM93	5	—	—	—	—
2"	22TE33	5	22TF60	5	—	—
2½"	22TE34	5	—	—	—	—
3"	3FPH8	5	22TF61	5	—	—
3¼"	25CM97	5	—	—	—	—
3½"	3FPH9	5	—	—	—	—
4"	3FPJ1	5	22TF63	5	—	—
4½"	3FPJ2	5	—	—	—	—
5"	3FPJ3	5	—	—	—	—
5½"	3FPJ4	5	—	—	—	—
6"	22TE41	1	22TF66	1	—	—
1"-8 Thread Size						
1½"	3FPJ7	5	22TD20	5	—	—
1¾"	25CL12	5	25CM07	5	—	—
2"	36H236	5	22TD21	5	—	—
2¼"	25CL13	5	25CM08	5	—	—
2½"	3FPJ9	5	22TD22	5	—	—
2¾"	25CL14	5	25CM09	5	—	—
3"	3FPK1	5	25CM10	5	—	—
3¼"	25CL15	5	25CM11	5	—	—
3½"	25CL16	5	25CM12	5	—	—
3¾"	25CL17	5	25CM13	5	—	—
4"	22TA68	5	22TD23	5	—	—
4½"	25CL18	5	25CM14	5	—	—
5"	22TA69	5	22TD24	5	—	—
5½"	25CL19	5	25CM15	5	—	—
6"	22TA70	1	22TD25	1	—	—
1"-14 Thread Size						
2"	3FPL5	5	22TF68	5	—	—
2½"	3FPL6	5	—	—	—	—
3"	3FPL7	5	—	—	—	—
3½"	3FPL8	5	—	—	—	—
4"	23LA16	5	—	—	—	—
6"	3FPN2	1	—	—	—	—
1⅛"-7 Thread Size						
2"	25CL24	1	—	—	—	—
2½"	25CL25	1	25CM22	1	—	—
3"	25CL26	1	25CM23	1	—	—
3½"	25CL27	1	25CM24	1	—	—
4"	25CL28	1	25CM25	1	—	—
4½"	25CL29	1	25CM26	1	—	—
5"	25CL30	1	25CM27	1	—	—
5½"	25CL31	1	25CM28	1	—	—
6"	25CL32	1	25CM29	1	—	—
1⅛"-12 Thread Size						
3½"	25CN12	1	—	—	—	—
4½"	25CN13	1	—	—	—	—
1¼"-7 Thread Size						
2"	25CL40	1	—	—	—	—
2½"	25CL41	1	25CM35	1	—	—
3"	25CL42	1	25CM36	1	—	—
3½"	25CL43	1	25CM37	1	—	—
4"	25CL44	1	25CM38	1	—	—
4½"	25CL45	1	25CM39	1	—	—
5"	25CL46	1	25CM40	1	—	—
5½"	25CL47	1	25CM41	1	—	—
6"	25CL48	1	25CM42	1	—	—

CONTINUED

CONTINUED

Grade 5 Steel Hex Head Cap Screws

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.	BLACK OXIDE Item No.	BLACK OXIDE Pkg. Qty.
1¼"-12 Thread Size						
2"	25CN16	1	—	—	—	—
3"	25CN17	1	—	—	—	—
3½"	25CN18	1	—	—	—	—
4"	25CN19	1	—	—	—	—
4½"	25CN20	1	—	—	—	—
5"	25CN21	1	—	—	—	—
5½"	25CN22	1	—	—	—	—
6"	25CN23	1	—	—	—	—

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.	BLACK OXIDE Item No.	BLACK OXIDE Pkg. Qty.
1½"-6 Thread Size						
3"	25CL56	1	25CM49	1	—	—
3½"	25CL57	1	25CM50	1	—	—
4"	25CL58	1	25CM51	1	—	—
4½"	25CL59	1	25CM52	1	—	—
5"	25CL60	1	25CM53	1	—	—
5½"	25CL61	1	25CM54	1	—	—
6"	25CL62	1	25CM55	1	—	—

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.	BLACK OXIDE Item No.	BLACK OXIDE Pkg. Qty.
1½"-12 Thread Size						
3"	25CN26	1	—	—	—	—
4"	25CN27	1	—	—	—	—
5"	25CN28	1	—	—	—	—
6"	25CN29	1	—	—	—	—



Made in North America Grade 5 Steel Hex Head Cap Screws

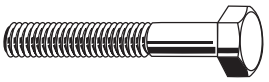
Meet ASME B18.2.1 standards.

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.
¼"-20 Thread Size				
½"	38WG02	100	38WH86	1800
⅝"	38WG03	100	38WH87	1600
¾"	38WG04	100	38WH88	1400
⅞"	38WJ24	100	38WN78	100
1"	38WJ25	100	38WN79	100
1¼"	38WJ26	100	38WY23	1000
1½"	38WJ27	100	38WY24	900
1¾"	38WJ29	100	38WY25	700
2"	38WJ30	50	38TM35	50
2¼"	38WJ31	50	38TM36	50
2½"	38WJ32	50	38TM37	50
2¾"	38WJ33	50	38TM38	50
3"	38WJ34	50	38TM39	50
3¼"	38WJ35	50	38WN80	50
3½"	38WJ36	50	38TM40	50
3¾"	38WJ37	50	38WY33	350
4"	38WJ38	25	38TM41	25
4¼"	38WJ39	25	38WN81	25
4½"	38WJ40	25	38WN82	25
5"	38WJ41	25	38WN83	25
5½"	38WJ42	25	38WN84	25
6"	38WJ43	25	38WN85	25
¼"-28 Thread Size				
½"	38WG41	100	38WH67	1800
⅝"	38WG42	100	38WG70	100
¾"	38WG43	100	38WH69	1400
⅞"	38WL59	100	38WM83	100
1"	38WL60	100	38WM84	100
1¼"	38WL61	100	38WM85	100
1½"	38WL62	100	38WM86	100
1¾"	38WL63	100	38WM87	100
2"	38WL64	50	38WM88	50
2¼"	38WL65	50	38WM89	50
2½"	38WL66	50	38WM90	50
2¾"	38WL67	50	38WM91	50
3"	38WL68	50	38WM92	50
3½"	38WL69	50	38WM93	50
3¾"	38WL70	50	38WM94	50
4"	38WL71	25	38WM95	25
5⁄16"-18 Thread Size				
½"	38WG05	100	38WH89	1000
⅝"	38WG06	100	38WH90	1000
¾"	38WG07	100	38WH91	800
⅞"	38WG08	100	38WG86	100
1"	38WJ44	100	38WN89	100
1¼"	38WJ45	100	38WN90	100
1½"	—	—	38WY43	500
1¾"	38WJ48	50	38TM42	50
2"	38WJ49	50	38TM43	50
2¼"	38WJ50	50	38TM44	50
2½"	38WJ51	50	38TM45	50
2¾"	38WJ52	50	38TM46	50
3"	38WJ53	50	38TM47	50
3½"	38WJ55	50	38WY50	250
3¾"	38WJ56	25	38TM48	25
4"	38WJ57	25	38TM49	25
4½"	38WJ59	25	38WN91	25
5"	38WJ60	25	38WN92	25
5½"	38WJ61	25	38WN93	25
6"	38WJ62	25	38WN94	25
5⁄16"-24 Thread Size				
½"	38WG44	100	38WG71	100
⅝"	38WG45	100	38WG72	100
¾"	38WG46	100	38WG73	100
1"	38WL72	100	38WM96	100
1¼"	38WL73	100	38WM97	100
1½"	38WL74	100	38WM98	100
1¾"	38WL75	50	38WM99	50
2"	38WL76	50	38WN01	50
2¼"	38WL77	50	38WN02	50
2½"	38WL78	50	38WN03	50
2¾"	38WL79	50	38WN04	50
3"	38WL80	50	38WN05	50
3½"	38WL82	50	38WN06	50
4"	38WL84	25	38WN07	25

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.
⅜"-16 Thread Size				
½"	38WG09	50	38TM16	50
⅝"	38WG10	50	38TM17	50
¾"	38WG11	50	38TM18	50
⅞"	38WG12	50	38TM19	50
1"	38WG13	50	38TM20	50
1¼"	38WJ63	50	38WN97	50
1½"	38WJ64	50	38TM50	50
1¾"	38WJ65	50	38TM51	50
2"	38WJ66	25	38TM52	25
2¼"	38WJ67	25	38TM53	25
2½"	38WJ68	25	38TM54	25
2¾"	38WJ69	25	38TM55	25
3"	38WJ70	25	38TM56	25
3¼"	38WJ71	25	38WN98	25
3½"	38WJ72	25	38TM57	25
3¾"	38WJ73	25	38WN99	25
4"	38WJ74	10	38TM58	10
4½"	38WJ76	10	38TM59	10
4¾"	38WJ77	10	38WP01	10
5"	38WJ78	10	38TM60	10
5½"	38WJ79	10	38WP02	10
6"	38WJ80	10	38WP03	10
⅜"-24 Thread Size				
¾"	38WG48	50	38WG74	50
1"	38WG50	50	38TM15	50
1¼"	38WL85	50	38WN08	50
1½"	38WL86	50	38WN09	50
1¾"	38WL87	50	38WN10	50
2"	38WL88	25	38WN11	25
2¼"	38WL89	25	38WN12	25
2½"	38WL90	25	38WN13	25
2¾"	38WL91	25	38WN14	25
3"	38WL92	25	38WN15	25
3½"	38WL93	25	38WN16	25
4"	38WL95	10	38WN17	10
7⁄16"-14 Thread Size				
¾"	38WG14	25	38TM21	25
⅞"	38WG15	25	38WH99	400
1"	38WG16	25	38TM22	25
1¼"	38WJ87	25	38WP11	25
1½"	38WJ88	25	38WP12	25
1¾"	38WJ89	25	38TM61	25
2"	38WJ90	25	38TM62	25
2¼"	38WJ91	10	38TM63	10
2½"	38WJ92	10	38TM64	10
2¾"	38WJ93	10	38TM65	10
3"	38WJ94	10	38TM66	10
3¼"	38WJ95	10	38WY83	140
3½"	38WJ96	10	38TM67	10
3¾"	38WJ97	10	38WP13	10
4"	38WJ98	10	38TM68	10
4½"	38WJ99	10	38WP14	10
5"	38WK01	10	38WP15	10
5½"	38WK02	10	38WY89	80
6"	38WK03	5	38WP17	5
7⁄16"-20 Thread Size				
¾"	38WG51	25	38WG75	25
1"	38WG53	25	38WG76	25
1¼"	38WL96	25	38WN18	25
1½"	38WL97	25	38WN19	25
1¾"	38WL98	25	38WN20	25
2"	38WL99	25	38WN21	25
2¼"	38WM01	10	38WN22	10
2½"	38WM02	10	38WN23	10
3"	38WM04	10	38WN24	10
3½"	38WM06	10	38WN25	10
4"	38WM08	10	38WN26	10
½"-13 Thread Size				
¾"	38WG17	25	38TM23	25
⅞"	38WG18	25	38WG87	25
1"	38WG19	25	38TM24	25
1¼"	38WG20	25	38TM25	25
1½"	38WK04	25	38WP20	25
1¾"	38WK05	25	38WP21	25
2"	38WK06	10	38TM69	10
2¼"	38WK07	10	38TM70	10
2½"	38WK08	10	38TM71	10
2¾"	38WK09	10	38TM72	10
3"	38WK10	10	38TM73	10
3¼"	38WK11	10	38WP22	10
3½"	38WK12	10	38TM74	10
3¾"	38WK13	10	38WP23	10
4"	38WK14	5	38TM75	5
4½"	38WK16	5	38TM76	5
4¾"	38WK17	5	38WP24	5
5"	38WK18	5	38TM77	5
5½"	38WK20	5	38TM78	5
6"	38WK21	5	38TM79	5
½"-20 Thread Size				
¾"	38WG54	25	38WG77	25
1"	38WG56	25	38WG78	25

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.
1¼"	38WG57	25	38WG79	25
1½"	38WM09	25	38WN27	25
2"	38WM11	10	38WN28	10
2¼"	38WM12	10	38WN29	10
2½"	38WM13	10	38WN30	10
2¾"	38WM14	10	38WN31	10
3"	38WM15	10	38WN32	10
3½"	38WM17	10	38WN33	10
4"	38WM19	5	38WN34	5
5"	38WM20	5	38WN35	5
⅜"-12 Thread Size				
1"	38WG21	25	38WG88	25
1¼"	38WG22	25	38WG89	25
1½"	38WK31	25	38WP34	25
1¾"	38WK32	10	38WP35	10
2"	38WK33	10	38WP36	10
2¼"	38WK34	10	38WZ13	110
2½"	38WK35	10	38TM80	10
	38WK42	5	—	—
2¾"	38WK36	10	38WZ15	90
	38WK43	5	—	—
3"	38WK37	10	38TM81	10
3¼"	38WK38	10	38WP37	10
3½"	38WK39	10	38TM82	10
3¾"	38WK40	10	38WP38	10
4"	38WK41	5	38WP39	5
5"	—	—	38WZ21	55
9⁄16"-18 Thread Size				
1"	38WG58	25	38WG80	25
1½"	38WM21	25	38WN36	25
1¾"	38WM22	10	38WN37	10
2"	38WM23	10	38WN38	10
	38WU65	120	—	—
2½"	38WM25	10	38WN39	10
3"	38WM27	10	38WN40	10
3½"	38WM29	10	38WN41	10
4"	38WM31	5	38WN42	5
6"	38WM32	5	—	—
5⁄8"-11 Thread Size				
1"	38WG23	10	38TM26	10
1¼"	38WG24	10	38TM27	10
1½"	38WG25	10	38TM28	10
1¾"	38WK44	10	38WP41	10
2"	38WK45	5	38WP42	5
2¼"	38WK46	5	38TM83	5
2½"	38WK47	5	38TM84	5
2¾"	38WK48	5	38TM85	5
3"	38WK49	5	38TM86	5
3¼"	38WK50	5	38WP43	5
3½"	—	—	38TM87	5
3¾"	38WK52	5	38WP44	5
4"	38WK53	5	38TM88	5
4½"	38WK55	5	38TM89	5
5"	38WK56	5	38TM90	5
5½"	38WK57	5	38TM91	5
6"	38WK58	5	38TM92	5
5⁄8"-18 Thread Size				
1"	38WG60	10	38WG81	10
1½"	38WG62	10	38WG82	10
1¾"	38WM33	10	38WN43	10
2"	38WM34	5	38WN44	5
2¼"	38WM35	5	38WN45	5
2½"	38WM36	5	38WN46	5
2¾"	38WM37	5	38WN47	5
3"	38WM38	5	38WN48	5
3¼"	38WM39	5	38WN49	5
3½"	38WM40	5	38WN50	5
4"	38WM41	5	38WN51	5
4½"	38WM42	5	38WN52	5
5"	38WM43	5	38WN53	5
5½"	38WM44	5	38WN54	5
6"	38WM45	5	38WN55	5
¾"-10 Thread Size				
1"	38WG26	10	38WG90	10
1¼"	38WG27	10	38WG91	10
1½"	38WG28	10	38TM29	10
1¾"	38WG29	10	38TM30	10
2"	38WK68	5	38WP55	5
2¼"	38WK69	5	38WP56	5
2½"	38WK70	5	38WP57	5
2¾"	38WK71	5	38TM93	5
3"	38WK72	5	38TM94	5
3¼"	38WK73	5	38TM95	5
3½"	38WK74	5	38TM96	5
3¾"	38WK75	5	38WZ44	35
4"	38WK76	5	38TM97	5
4½"	38WK78	5	38TM98	5
5"	38WK80	5	38TM99	5
5½"	38WK82	5	38TN01	5
6"	38WK83	5	38TN02	5
¾"-16 Thread Size				
1½"	38WG63	10	38WG83	10
2"	38WM46	5	38WN56	5

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC PLATED Item No.	ZINC PLATED Pkg. Qty.
2¼"	38WM47	5	38WN57	5
2½"	38WM48	5	38WN58	5
2¾"	38WM49	5	38WN59	5
3"	38WM50	5	38WN60	5
3½"	38WM52	5	38WN61	5
4"	38WM54	5	38WN62	5
4½"	38WM55	5	38WN63	5
5"	38WM56	5	38WN64	5
5½"	38WM57	5	38WN65	5
6"	38WM58	5	38WN66	5
⅞"-9 Thread Size				
1½"	38WG30	5	38TM31	5
1¾"	38WG31	5	38WG92	5
2"	38WG32	5	38TM32	5
2¼"	38WK95	5	38WP68	5
2½"	38WK96	5	38WP69	5
2¾"	38WT61	30	38WP70	5
3"	38WK98	5	38TN03	5
3¼"	38WK99	5	38TN04	5
3½"	38WL01	5	38TN05	5
3¾"	38WL02	5	38TN06	5
4"	38WL03	5	38TN07	5
4½"	38WL05	5	38TN08	5
5"	38WL06	5	38TN09	5
5½"	38WL07	5	38TN10	5
6"	38WL08	1	38WP71	1
⅞"-14 Thread Size				
1½"	38WG65	5	—	—
2"	38WG66	5	38WG84	5
2½"	38WM60	5	38WN67	5
3"	38WM62	5	38WN68	5
3½"	38WM64	5	38WN69	5
4"	38WM66	5	38WN70	5
4½"	38WM67	5	—	—
5"	38WM68	5	38WN71	5
5½"	38WM69	5	38WN72	5
6"	38WM70	1	38WN73	1
1"-8 Thread Size				
1½"	38WG33	5	38WG93	5
1¾"	38WG34	5	38WG94	5
2"	38WG35	5	38WG95	5
2¼"	38WG36	5	38TM33	5
2½"	38WL14	5	38WP79	5
2¾"	38WL15	5	38WP80	5
3"	38WL16	5	38WP81	5
3¼"	38WL17	5	38TN11	5
3½"	38WL18	5	38WP82	5
3¾"	38WL19	5	38WP83	5
4"	38WL20	5	38TN12	5
4½"	38WL21	5	38WP84	5
5"	38WL22	5	38WP85	5
5½"	38WL23	5	38WP86	5
6"	38WL24	1	38WP87	1
1"-14 Thread Size				
1½"	38WG67	5	—	—
1¾"	38WM75	5	—	—
2"	38WH66	30	—	—
2¼"	38WM77	5	—	—
2½"	38WM71	5	—	—
	38WM78	5	—	—
2¾"	38WM79	5	—	—
3"	38WM73	5	—	—
3½"	—	—	38WN74	5
4"	—	—	38WG85	5
	—	—	38WN75	5
5"	—	—	38WN76	5
5½"	38WM80	5	—	—
6"	38WM81	1	38WN77	1
1⅛"-7 Thread Size				
1¼"	38WL39	1	—	—
2"	38WG37	1	—	—
2½"	38WG38	1	38WG96	1
3"	38WL34	1	38WP95	1
3½"	38WL35	1	38WP96	1
4"	38WL36	1	38WP97	1
4½"	38WL37	1	38WP98	1
5"	38WL38	1	38WP99	1
5½"	—	—	38WR01	1
6"	38WL40	1	38WR02	1
1¼"-7 Thread Size				
2"	38WG39	1	—	—
2½"	38WG40	1	38WG97	1
3"	38WL46	1	38WR07	1
3½"	38WL47	1	38WR08	1
4"	38WL48	1	38WR09	1
4½"	38WL49	1	38WR10	1
5"	38WL50	1	38WR11	1
5½"	38WL51	1	38WR12	1
6"	38WL52	1	38WR13	1



Grade 8 Steel Hex Head Cap Screws

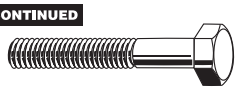
Grade 8 is comparable to metric Class 10.9. Meet ASME B18.2.1 standards.

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Length	ZINC YELLOW Item No.	Pkg. Qty.	PLAIN Item No.	Pkg. Qty.
¼"-20 Thread Size				
½"	—	—	6YAN2	100
¾"	10E541	100	—	—
⅞"	25CP28	100	25CN51	100
1"	10H330	100	2EA43	100
1⅛"	22TG82	100	22TF73	100
1⅜"	22TG83	100	22TF74	100
1¼"	22TG84	50	6YCH2	50
1½"	25CP29	50	—	—
1¾"	25CP30	50	25CN52	50
2"	22TG87	50	22TF77	50
2¼"	25CP31	50	25CN53	50
2½"	23LA26	25	6YCH4	25
2¾"	22TG88	25	22TF78	25
3"	22TG89	25	22TF79	25
3½"	22TG90	25	22TF80	25
4"	22TG91	25	22TF81	25
4½"	22TG92	25	22TF82	25
¼"-28 Thread Size				
½"	6YAJ7	100	6YAN4	100
⅝"	25CT35	100	6YAN5	100
¾"	6YAJ8	100	6YAN6	100
⅞"	25CT36	100	25CR49	100
1"	25DN58	100	—	—
1⅛"	22TJ91	100	22TJ17	100
1½"	25CT38	100	—	—
2"	25DN59	50	—	—
2¼"	25CT40	50	25CR50	50
2½"	22TJ92	50	—	—
2¾"	25CT41	50	25CR51	50
3"	23LA63	50	—	—
3½"	22TJ93	50	6RLU7	50
3¾"	25CT43	50	25CR52	50
4"	23LA64	25	23LA51	25
4½"	22TJ94	25	22TJ19	25
5"	25CT44	25	22TJ20	25
5½"	22TJ95	25	22TJ21	25
6"	25CT45	25	22TJ22	25
⅜"-18 Thread Size				
⅜"	25CP32	100	25CN56	100
¾"	10H332	100	6YAN8	100
⅞"	25CP33	100	25CN57	100
1"	10H333	100	22TF83	100
1⅛"	22TG93	100	22TF85	100
1⅜"	22TG94	100	22TF87	100
1¼"	22TG96	50	25CN58	50
1¾"	25CP34	50	25CN60	50
2¼"	25CP35	25	25CN61	25
2½"	22TG99	25	22TF90	25
2¾"	22TH01	25	22TF91	25
3"	22TH02	25	—	—
3½"	22TH03	25	22TF93	25
4"	22TH04	25	22TF94	25
⅜"-24 Thread Size				
½"	25DN60	100	23LA52	100
⅝"	25CT48	100	25CR54	100
¾"	6YAJ9	100	23LA53	100
⅞"	25CT49	100	25CR55	100
1"	6YAK0	100	—	—
1½"	25CT51	100	—	—
2"	25DN61	50	—	—
2¼"	25CT53	50	25CR56	50
2½"	25CT54	50	—	—
3"	23LA65	50	—	—
3¼"	25CT55	50	25CR58	50
3½"	6YAX9	50	22TJ26	50
4"	23LA66	25	6RLW0	25
4½"	22TJ97	25	6RLW1	25
5"	22TJ98	25	6RLW2	25
5½"	22TJ99	25	6RLW3	25
6"	22TK01	25	6RLW4	25
⅜"-16 Thread Size				
½"	23LA30	50	6YAP1	50
⅝"	25CP38	50	6YAP2	50
⅞"	25DN52	50	25CN62	50
1"	23LA32	50	10E542	50
1¼"	25CP41	25	25CN64	25
1½"	22TH12	10	22TF97	10
1¾"	22TH13	10	—	—
2"	22TH14	10	22TF98	10
2¼"	22TH15	10	—	—
2½"	22TH16	10	—	—
2¾"	22TH17	10	22TF99	10
3"	22TH18	10	—	—
⅜"-24 Thread Size				
½"	25CT56	50	25CR61	50
⅝"	25CT57	50	25CR62	50
¾"	23LA67	50	6YAP4	50
⅞"	25CT58	50	25CR63	50
1"	23LA68	50	6YAP5	50
1¼"	25CT59	50	2EB48	50
1½"	25CT60	50	—	—
1¾"	25CT61	50	—	—
2"	25DN62	25	—	—
2½"	25CT63	25	—	—
3"	23LA69	25	—	—
3¼"	25CT65	25	25CR64	25
3½"	25CT66	25	—	—
4"	23LA70	10	—	—
4¼"	22TK02	10	22TJ29	10
4½"	22TK03	10	25CR66	10
4¾"	22TK04	10	22TJ30	10
5"	23LA71	10	6RLW5	10
5¼"	22TK05	10	22TJ31	10
5½"	23LA72	10	6RLW6	10
5¾"	22TK06	10	22TJ32	10
6"	23LA73	10	6RLW7	10
⅞"-14 Thread Size				
1¼"	—	—	6YAP8	25
1½"	—	—	2EB69	25
2¼"	25CP44	10	25CN69	10
3¼"	25CP45	10	25CN70	10
3½"	22TH24	10	—	—
3¾"	25CP46	10	25CN71	10
4½"	22TH25	10	—	—
5"	23LA42	10	—	—
5½"	22TH26	10	22TA29	10
6"	23LA43	5	6RLW9	5
⅞"-20 Thread Size				
¾"	25DN63	25	25CR67	25
1"	25DN64	25	23LA56	25
1¼"	25CT71	25	22TJ34	25
1½"	25CT72	25	2EB90	25
2"	25DN65	25	—	—
2¼"	25CT74	10	25CR68	10
2½"	25CT75	10	—	—
3"	25DN66	10	—	—
3¼"	25CT77	10	25CR69	10
3½"	22TK08	10	—	—
3¾"	25CT78	10	25CR70	10
4"	25DN67	10	—	—
4½"	25CT79	10	25CR71	10
5"	25DN68	10	—	—
5½"	25CT80	10	25CR72	10
6"	23LA74	5	25CR73	5
½"-13 Thread Size				
¾"	25DN54	25	6YAR2	25
1"	—	—	6YAR3	25
1½"	22TH31	25	2EE19	25
1¾"	22TH32	25	2EE21	25
2¼"	23LA47	10	25CN73	10
3¼"	25CP50	10	25CN74	10
4¼"	22TH37	5	22TG11	5
4¾"	22TH39	5	22TG12	5
5¼"	22TH41	5	22TG13	5
5½"	22TH42	5	—	—
6"	22TH43	5	—	—
½"-20 Thread Size				
¾"	23LA75	25	23LA60	25
1"	23LA76	25	—	—
1¼"	22TK09	25	22TJ36	25
1½"	22TK10	25	—	—
1¾"	22TK11	25	—	—
2"	25DN69	10	—	—
2¼"	25CT81	10	—	—
2½"	25CT82	10	—	—
2¾"	22TK12	10	25CR74	10
3"	23LA77	10	—	—
3¼"	25CT83	10	25CR75	10
3½"	25CT84	10	—	—
3¾"	25CT85	10	25CR76	10
4"	25DN70	5	—	—
4¼"	22TK13	5	22TJ37	5
4¾"	22TK14	5	22TJ39	5
5½"	—	—	25CR77	5
⅝"-12 Thread Size				
1"	25DN55	25	25CN81	25
1¼"	25CP57	25	22TG19	25
1½"	25CP58	25	22TG20	25
1¾"	22TA58	10	6YAR9	10
2"	23LA49	10	6YAT0	10
2¼"	25CP59	10	25CN82	10
2½"	25CP60	10	6RLX9	10
2¾"	25CP61	10	25CN83	10
3"	25DN56	10	6RLY0	10
3¼"	25CP62	10	25CN84	10
3½"	25CP63	10	6RLY1	10
3¾"	25CP64	10	25CN85	10
4"	—	—	6RLY2	5
4½"	22TH48	5	6RLY3	5
5"	22TH49	5	6RLY4	5
5½"	22TH50	5	6RLY5	5
6"	22TH51	5	6RLY6	5
⅝"-18 Thread Size				
1"	6YAL2	25	25CR78	25
1¼"	25CT88	25	25CR79	25
1½"	25CT89	25	25CR80	25
1¾"	25CT90	10	25CR81	10
2"	22TK23	10	6YAT2	10
2¼"	25CT91	10	6RLY7	10
2½"	25CT92	10	6RLY8	10
2¾"	25CT93	10	25CR82	10
3"	25DN71	10	—	—
3¼"	25CT94	10	25CR83	10
3½"	25CT95	10	6RLZ0	10
4"	—	—	22TJ47	5
4½"	25CT97	5	22TJ48	5
5"	—	—	22TJ49	5
5½"	25CT98	5	22TJ50	5
6"	22TK26	5	22TJ51	5
⅝"-11 Thread Size				
1"	25DN57	10	6YAT3	10
1¼"	25CP65	10	6YAT4	10
1½"	—	—	10E545	10
1¾"	22TH53	10	2EE78	10
2¼"	25CP66	5	22TG27	5
2¾"	25CP67	5	25CN86	5
3¼"	22TH60	5	22TG28	5
3½"	25CP68	5	—	—
3¾"	22TH61	5	22TG29	5
5½"	25CP69	5	—	—
⅝"-18 Thread Size				
1"	25DN72	10	23LA62	10
1¼"	25CT99	10	22TJ52	10
1½"	—	—	22TJ53	10
1¾"	22TK28	10	22TJ54	10
2"	25DN73	5	22TJ55	5
2¼"	25CU01	5	25CR84	5
2½"	22TK29	5	—	—
2¾"	22TK30	5	25CR85	5
3¼"	22TK32	5	25CR86	5
3½"	22TK33	5	—	—
3¾"	22TK34	5	25CR87	5
4"	22TK35	5	—	—
4¼"	22TK36	5	22TJ57	5
4½"	—	—	6RMA2	5
4¾"	22TK38	5	22TJ58	5
5"	—	—	6RMA3	5
5½"	25CU02	5	6RMA4	5
6"	—	—	6RMA5	5
¾"-10 Thread Size				
1"	22TH70	10	25CN89	10
1¼"	22TH71	10	22TG36	10
1½"	22TH72	10	22TG37	10
1¾"	22TH73	10	22TG38	10
2"	—	—	2EU49	5
2¼"	22TH75	5	2EU53	5
2¾"	25CP74	5	6RMA9	5
3¼"	25CP75	5	25CN90	5
4¼"	22TH81	5	22TG39	5
4¾"	22TH83	5	22TG40	5
5¼"	22TH85	5	22TG42	5
5½"	22TH86	5	—	—
¾"-16 Thread Size				
1"	—	—	25CR94	10
1¼"	25CU07	10	25CR95	10
1½"	22TK44	10	22TJ66	10
1¾"	25CU08	10	22TJ67	10
2"	22TK45	5	—	—
2¼"	25CU09	5	25CR96	5
2½"	25CU10	5	2EU96	5
3¼"	25CU12	5	25CR97	5
3½"	25CU13	5	—	—
3¾"	25CU14	5	25CR98	5
4¼"	22TK48	5	22TJ68	5
4½"	22TK49	5	—	—
4¾"	22TK50	5	22TJ69	5
5½"	—	—	6RMC6	5
6"	—	—	6RMC7	5
⅞"-9 Thread Size				
1½"	25CP83	5	25CN95	5
1¾"	25CP84	5	25CN96	5
2"	—	—	6YAU5	5
2¼"	25CP85	5	6YAU6	5
2½"	—	—	6YAU7	5
2¾"	25CP86	5	6YAU8	5
3"	—	—	6RMD4	5
3¼"	25CP87	5	25CN97	5
3½"	22TH95	5	6RMD5	5
3¾"	25CP88	5	25CN98	5
4"	—	—	6RMD6	5
4¼"	22TH97	5	22TG51	5
4½"	22TH98	5	6RMD7	5
5"	22TH99	5	6RMD8	5
5½"	22TJ01	5	6RMD9	5
6"	25CP89	1	22TG55	1
⅞"-14 Thread Size				
1½"	25CU17	5	25CT04	5
2"	—	—	6YAU9	5
2¼"	25CU18	5	25CT05	5
2½"	25CU19	5	6YAV0	5
2¾"	25CU20	5	25CT06	5
3"	—	—	6RME8	5
3¼"	25CU21	5	25CT07	5
3½"	22TK60	5	6RME9	5
3¾"	25CU22	5	—	—
4"	—	—	6RMF0	5
4½"	—	—	6RMF1	5
5"	—	—	6RMF2	5
5½"	—	—	6RMF3	5
6"	—	—	22TJ87	1
1"-8 Thread Size				
1½"	25CP97	5	6YAV1	5
1¾"	25CP98	5	25CP02	5
2½"	25CP99	5	6YAV2	5
2¾"	25CR01	5	6YAV3	5
3"	—	—	6YAV4	5
3¼"	25CR02	5	25CP03	5
3½"	22TJ06	5	25CP04	5
3¾"	25CR03	5	25CP05	5
4"	22TJ07	5	6RMF9	5
4¼"	22TJ08	5	—	—
4½"	22TJ09	5	25CP06	5
5"	22TJ10	5	—	—
5½"	22TJ11	5	25CP07	5
6"	22TJ12	1	6RMG2	1
1"-14 Thread Size				
1½"	25CU82	5	25CU60	5
1¾"	25CU83	5	25CU61	5
2"	25CU84	5	25CU62	5
2¼"	25CU85	5	25CU63	5
2½"	25CU86	5	25CU64	5
2¾"	25CU87	5	25CU65	5
3"	25CU88	5	25CU66	5
3¼"	25CU89	5	25CU67	5
3½"	25CU90	5	25CU68	5
4"	25CU92	5	25CU69	5
4½"	25CU93	5	25CU70	5
5"	25CU94	5	25CU71	5
5½"	25CU95	5	25CU72	5
6"	25CU96	1	25CU73	1
1⅛"-7 Thread Size				
2½"	25CR08	1	—	—
3"	25CR09	1	—	—
3½"	25CR10	1	—	—
4"	25CR11	1	—	—
4½"	25CR12	1	—	—
5"	25CR13	1	—	—
5½"	25CR14	1	25CP13	1
6"	25CR15	1	—	—
1⅛"-12 Thread Size				
2½"	—	—	25CT12	1
3"	25CU27	1	25CT13	1
3½"	25CU28	1	25CT14	1
4"	25CU29	1	25CT15	1
4½"	25CU30	1	25CT16	1
5"	25CU31	1	25CT17	1
5½"	25CU32	1	25CT18	1
6"	25CU33	1	25CT19	1
1¼"-7 Thread Size				
2½"	25CR22	1	—	—
3"	25CR23	1	2EY64	1
3½"	25CR24	1	2EY67	1
4"	25CR25	1	—	—
4½"	25CR26	1	—	—
5"	25CR27	1	25CP19	1
5½"	25CR28	1	—	—
6"	25CR29	1	25CP20	1
1¼"-12 Thread Size				
2½"	25CU40	1	—	—
3"	25CU41	1	25CT22	1
3½"	25CU42	1	25CT23	1
4"	25CU43	1	—	—
4½"	25CU44	1	25CT24	1
5"	25CU45	1	—	—
5½"	25CU46	1	25CT25	1
6"	25CU47	1	—	—
1½"-6 Thread Size				
3"	25CR36	1	—	—
3½"	25CR37	1	—	—
4"	25CR38	1	25CP22	1
4½"	25CR39	1	—	—
5"	25CR40	1	25CP23	1
5½"	25CR41	1	25CP24	1
6"	25CR42	1	25CP25	1
1½"-12 Thread Size				
3½"	—	—	25CT28	1
4"	—	—	25CT29	1
4½"	25CU55	1	25CT30	1
5"	25CU56	1	25CT31	1
6"	25CU57	1	25CT32	1

CONTINUED

CONTINUED



Grade 8 Steel Hex Head Cap Screws

Grade 8 is comparable to metric Class 10.9. Meet ASME B18.2.1 standards.

MADE IN NORTH AMERICA

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC YELLOW Item No.	ZINC YELLOW Pkg. Qty.
¼"-20 Thread Size				
½"	38ZU36	1800	1UE36	100
⅝"	38ZU37	1600	1UE37	100
¾"	38ZU38	1400	1UE38	100
⅞"	38ZW11	100	38ZX17	100
1"	38ZW12	100	38ZX18	100
1¼"	6KWZ5	100	1UE39	100
1½"	6KWZ6	100	1UE40	100
1¾"	38TN63	100	1UE41	100
2"	6KWZ8	50	38TN98	50
2¼"	38ZZ75	600	38TN99	50
2½"	6KWZ9	50	38TP01	50
2¾"	6KXA0	50	38TP02	50
3"	6KXA1	50	38TP03	50
3¼"	38ZW13	50	38ZX19	50
3½"	38TN64	50	38TP04	50
3¾"	38ZW14	50	38ZX20	50
4"	38ZZ82	350	38TP05	25
4½"	38TN65	25	38TP06	25
5"	38TN66	25	38TP07	25
5½"	38TN67	25	38TP08	25
6"	38TN68	25	38TP09	25
¼"-28 Thread Size				
½"	38ZV26	1800	1UY94	100
⅝"	38ZV27	1600	38ZT81	100
¾"	38ZV28	1400	1UY95	100
⅞"	38ZY16	100	38ZY87	100
1"	38ZY17	100	38ZY88	100
1¼"	6KXA2	100	1UY97	100
1½"	6KXA3	100	1UY98	100
1¾"	38TR17	100	1UY99	100
2"	6KXA5	50	38TR56	50
2¼"	38ZY18	50	38ZY89	50
2½"	6KXA6	50	38TR57	50
2¾"	38ZY19	50	38ZY90	50
3"	6KXA7	50	38TR58	50
3¼"	38ZY20	50	38ZY91	50
3½"	39AE36	400	38TR59	50
3¾"	38ZY21	50	38ZY92	50
4"	38TR18	25	38TR60	25
4½"	38TR19	25	38TR61	25
5"	38TR20	25	38ZY93	25
5½"	38TR21	25	38TR62	25
6"	38TR22	25	—	—
5⁄16"-18 Thread Size				
½"	38ZU39	1000	1UE52	100
⅝"	38ZT14	100	38ZT23	100
¾"	38ZU41	800	1UE53	100
⅞"	38ZT15	100	38ZT24	100
1"	38ZW15	100	38ZX21	100
1¼"	38ZW16	100	38ZX22	100
1½"	38TN69	100	1UE55	100
1¾"	6KXA9	50	38TP10	50
2"	6KXC0	50	38TP11	50
2¼"	38ZW17	50	38TP12	50
2½"	6KXC1	50	38TP13	50
2¾"	38TN70	50	38TP14	50
3"	38TN71	50	38TP15	50
3¼"	38ZW18	50	38ZX23	50
3½"	38TN72	50	1UE62	50
3¾"	38ZW19	25	38ZX24	25
4"	6GZX0	25	38TP16	25
4½"	38TN73	25	38TP17	25
5"	38TN74	25	38TP18	25
5½"	38TN75	25	38TP19	25
6"	38TN76	25	38TP20	25
5⁄16"-24 Thread Size				
½"	38TN38	100	1VA17	100
⅝"	38ZT50	100	38ZT82	100
¾"	38TN39	100	1VA18	100
⅞"	38ZT51	100	38ZT83	100
1"	38ZY22	100	38ZY94	100
1¼"	38ZY23	100	38ZY95	100
1½"	38TR23	100	1VA20	100
1¾"	6GZX3	50	38TR63	50
2"	6GZX4	50	38TR64	50
2¼"	38ZY24	50	38ZY96	50
2½"	38TR24	50	38TR65	50
2¾"	38ZY25	50	38TR66	50
3"	38TR25	50	38TR67	50
3¼"	38ZY26	50	38ZY97	50
3½"	38TR26	50	1VA26	50
3¾"	38ZY27	25	38ZY98	25
4"	39AE55	225	38TR68	25
4½"	—	—	38TR69	25
5"	—	—	38TR70	25
5½"	—	—	38TR71	25
6"	—	—	38TR72	25
⅜"-16 Thread Size				
½"	38ZU43	750	38TN19	50
⅝"	38ZU44	650	38ZT25	50
¾"	38ZU45	600	38TN20	50

MADE IN NORTH AMERICA

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC YELLOW Item No.	ZINC YELLOW Pkg. Qty.
⅞"	38ZT16	50	38TN21	50
1"	38ZU47	500	38TN22	50
1¼"	38ZW20	50	38ZX25	50
1½"	39AA07	350	38TP21	50
1¾"	38TN77	50	38TP22	50
2"	6GZX8	25	38TP23	25
2¼"	39AA10	275	38TP24	25
2½"	6GZX9	25	38TP25	25
2¾"	6GZY0	25	38TP26	25
3"	6GZY1	25	38TP27	25
3¼"	6GZY2	25	38ZX26	25
3½"	6GZY3	25	38TP28	25
3¾"	38ZW21	25	38ZX27	25
4"	6GZY4	10	38TP29	10
4½"	6GZY5	10	38TP30	10
5"	6GZY6	10	38TP31	10
5½"	6GZY7	10	38TP32	10
6"	6GZY8	10	38TP33	10
⅜"-24 Thread Size				
½"	—	—	38TN50	50
⅝"	38ZT52	50	38ZT84	50
¾"	38ZV34	600	38TN51	50
⅞"	38ZT53	50	38ZT85	50
1"	38ZV36	500	38TN52	50
1¼"	38ZY28	50	38ZY99	50
1½"	6GZY9	50	38TR73	50
1¾"	38TR27	50	38TR74	50
2"	6GZZ1	25	38TR75	25
2¼"	6GZZ2	25	38TR76	25
2½"	6GZZ3	25	38TR77	25
2¾"	38ZY29	25	38ZZ01	25
3"	6GZZ4	25	38TR78	25
3¼"	38ZY30	25	38TR79	25
3½"	38TR28	25	38TR80	25
3¾"	38ZY31	25	38ZZ02	25
4"	6GZZ6	10	38TR81	10
4½"	38ZY32	10	38TR82	10
5"	39AE73	130	38TR83	10
5½"	39AE74	120	38TR84	10
6"	39AE75	110	38TR85	10
7⁄16"-14 Thread Size				
¾"	38TN13	25	38TN23	25
⅞"	38ZT17	25	38ZT26	25
1"	38TN14	25	38TN24	25
1¼"	38ZW26	25	38ZX30	25
1½"	38ZW27	25	38ZX31	25
1¾"	38ZW28	25	38TP34	25
2"	6GZZ8	25	38TP35	25
2¼"	38ZW29	10	38TP36	10
2½"	38TN78	10	38TP37	10
2¾"	6HAA0	10	38TP38	10
3"	6HAA1	10	38TP39	10
3¼"	38ZW30	10	38ZX32	10
3½"	6HAA2	10	38TP40	10
3¾"	38ZW31	10	38ZX33	10
4"	6HAA3	10	38TP41	10
4½"	6HAA4	10	38TP42	10
5"	6HAA5	10	38TP43	10
5½"	38TN79	10	38TP44	10
6"	39AA40	80	38TP45	5
7⁄16"-20 Thread Size				
¾"	38ZT54	25	38TN53	25
1"	38TN40	25	38TN54	25
1¼"	38ZY33	25	38ZZ03	25
1½"	38ZY34	25	38ZZ04	25
1¾"	38TR29	25	38TR86	25
2"	6HAA7	25	38TR87	25
2¼"	38ZY35	10	38ZZ05	10
2½"	38TR30	10	38TR88	10
2¾"	38TR31	10	38ZZ06	10
3"	6HAA9	10	38TR89	10
3¼"	38ZY36	10	38ZZ07	10
3½"	6HAC0	10	38TR90	10
3¾"	38ZY37	10	38ZZ08	10
4"	6HAC1	10	38TR91	10
4½"	38ZY38	10	38ZZ09	10
5"	6HAC2	10	38TR92	10
5½"	—	—	38TR93	10
6"	—	—	38TR94	5
½"-13 Thread Size				
¾"	38ZU51	300	38TN25	25
1"	38ZU52	200	38TN26	25
1¼"	38ZU53	175	38TN27	25
1½"	38ZW33	25	38ZX34	25
1¾"	38ZW34	25	38ZX35	25
2"	6HAJ9	10	38TP46	10
2¼"	6HAC3	10	38TP47	10
2½"	6HAK0	10	38TP48	10
2¾"	6HAC4	10	38TP49	10
3"	6HAK1	10	38TP50	10
3¼"	38ZW35	10	38TP51	10
3½"	6HAK2	10	38TP52	10
3¾"	38ZW36	10	38ZX36	10
4"	38TN80	5	38TP53	5
4¼"	38ZW37	5	38ZX37	5
4½"	6HAC5	5	38TP54	5
5"	6HAK4	5	38TP55	5
5½"	6HAC6	5	38TP56	5
6"	6HAC7	5	38TP57	5
½"-20 Thread Size				
¾"	38TN41	25	38TN55	25
1"	38TN42	25	38TN56	25
1¼"	38TN43	25	38TN57	25
1½"	38ZY39	25	38ZZ10	25
1¾"	38ZY40	25	38ZZ11	25
2"	6HAC8	10	38TR95	10

MADE IN NORTH AMERICA

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC YELLOW Item No.	ZINC YELLOW Pkg. Qty.
2¼"	6HAC9	10	38TR96	10
2½"	6HAD0	10	38TR97	10
2¾"	38ZY41	10	38TR98	10
3"	6HAD1	10	38TR99	10
3¼"	38ZY42	10	38ZZ12	10
3½"	6HAD2	10	38TT01	10
3¾"	38ZY43	10	38ZZ13	10
4"	38TR32	5	38TT02	5
4½"	38TR33	5	38TT03	5
5"	6HAD5	5	38TT04	5
5½"	—	—	38TT05	5
6"	6HAD6	5	38TT06	5
9⁄16"-12 Thread Size				
1"	38ZT18	25	1UY29	25
1¼"	38TN15	25	1UY30	25
1½"	38ZW47	25	38ZX43	25
1¾"	38ZW48	10	38ZX44	10
2"	38ZW49	10	38ZX45	10
2¼"	38ZW50	10	38TP61	10
2½"	39AA66	100	38TP62	10
2¾"	38ZW51	10	38ZX46	10
3"	39AA68	80	38TP63	10
3¼"	38ZW52	10	38ZX47	10
3½"	39AA70	70	38TP64	10
3¾"	38ZW53	10	38ZX48	10
4"	39AA72	65	38TP65	5
4½"	39AA73	60	38TP66	5
5"	39AA74	55	38TP67	5
5½"	39AA75	50	38TP68	5
6"	39AA76	45	38TP69	5
9⁄16"-18 Thread Size				
1"	38ZT55	25	1ZEA7	25
1¼"	38TN44	25	38ZT87	25
1½"	38ZY44	25	38ZZ14	25
1¾"	38ZY45	10	38ZZ15	10
2"	38ZY46	10	38ZZ16	10
2¼"	39AF09	110	38ZZ17	10
2½"	39AF10	100	38ZZ18	10
2¾"	38ZY47	10	38ZZ19	10
3"	39AF12	80	38TT11	10
3¼"	38ZY48	10	38ZZ20	10
3½"	39AF14	70	38ZZ21	10
4"	38TR34	5	38TT12	5
4½"	38TR35	5	38ZZ23	5
5"	38TR36	5	38TT13	5
5½"	38TR37	5	38ZZ24	5
6"	38TR38	5	38TT14	5
5⁄8"-11 Thread Size				
1"	38ZU56	140	38TN28	10
1¼"	38ZU57	120	38TN29	10
1½"	38ZU58	110	38TN30	10
1¾"	38ZW54	10	38ZX49	10
2"	38ZW55	5	38ZX50	5
2¼"	38TN81	5	38TP70	5
2½"	38TN82	5	38TP71	5
2¾"	38TN83	5	38TP72	5
3"	38TN84	5	38TP73	5
3¼"	38TN85	5	38TP74	5
3½"	6HAK7	5	38TP75	5
3¾"	38ZW56	5	38ZX51	5
4"	6HAK8	5	38TP76	5
4½"	6HAD9	5	38TP77	5
5"	6HAE0	5	38TP78	5
5½"	6HAE1	5	38TP79	5
6"	6HAE2	5	38TP80	5
5⁄8"-18 Thread Size				
1"	38TN45	10	38TN58	10
1¼"	38TN46	10	38TN59	10
1½"	38TN47	10	38TN60	10
1¾"	38ZY49	10	38ZZ25	10
2"	38ZY50	5	38ZZ26	5
2¼"	38ZY51	5	38TT15	5
2½"	38TR39	5	38TT16	5
2¾"	38ZY52	5	38TT17	5
3"	6HAE5	5	38TT18	5
3¼"	38ZY53	5	38TT19	5
3½"	6HAE6	5	38TT20	5
3¾"	38ZY54	5	38TT21	5
4"	6HAE7	5	38TT22	5
4½"	39AF30	45	38TT23	5
5"	39AF31	45	38TT24	5
5½"	39AF32	40	38ZZ27	5
6"	39AF33	35	38TT25	5
¾"-10 Thread Size				
1"	38ZT19	10	38TN31	10
1¼"	38TN16	10	38TN32	10
1½"	38TN17	10	38TN33	10
1¾"	38TN18	10	38TN34	10
2"	38ZW63	5	38ZX60	5
2¼"	38ZW64	5	38ZX61	5
2½"	12N688	5	38ZX62	5
	38ZW65	5	—	—
2¾"	39AA97	45	38TP83	5
3"	6HAK9	5	38TP84	5
3¼"	39AA99	40	38TP85	5
3½"	6HAL0	5	38TP86	5
3¾"	38ZW66	5	38ZX63	5
4"	6HAL1	5	38TP87	5
4¼"	38ZW67	5	38ZX64	5
4½"	6HAE8	5	38TP88	5
5"	6HAE9	5	38TP89	5
5½"	6HAF0	5	38TP90	5
6"	38TN92	5	38TP91	5
¾"-16 Thread Size				
1¼"	38ZT56	10	38ZT88	10
1½"	38TN48	10	38TN61	10

MADE IN NORTH AMERICA

Length	PLAIN Item No.	PLAIN Pkg. Qty.	ZINC YELLOW Item No.	ZINC YELLOW Pkg. Qty.
1¾"	38TN49	10	38ZT89	10
2"	38ZY57	5	38ZZ30	5
2¼"	38ZY58	5	38ZZ31	5
2½"	—	—	38ZZ32	5
2¾"	6HAF1	5	38TT28	5
3"	6HAF2	5	38TT29	5
3¼"	38ZY60	5	38ZZ33	5
3½"	6HAF3	5	38TT30	5
3¾"	38ZY61	5	38ZZ34	5
4"	6HAF4	5	38TT31	5
4½"	6HAF5	5	38TT32	5
5"	6HAF6	5	38TT33	5
5½"	39AF46	25	38TT34	5
6"	39AF47	25	38TT35	5
⅞"-9 Thread Size				
1½"	38ZU63	50	38ZT27	5
1¾"	38ZU64	45	38ZT28	5
2"	38ZU65	40	38TN35	5
2¼"	38ZW74	5	38ZX70	5
2½"	38ZW75	5	38ZX71	5
2¾"	38ZW76	5	38ZX72	5
3"	39AC14	30	38TP98	5
3¼"	38ZW77	5	38ZX73	5
3½"	39AC16	25	38TP99	5
3¾"	38ZW78	5	38ZX74	5
4"	39AC18	25	38TR01	5
4½"	39AC20	20	38TR02	5
5"	39AC21	20	38TR03	5
5½"	39AC22	20	38TR04	5
6"	38TN94	1	38TR05	1
⅞"-14 Thread Size				
1½"	38ZT57	5	38ZT90	5
2"	38ZV51	40	38TN62	5
2¼"	38ZY64	5	38ZZ39	5
2½"	38ZY65	5	38ZZ40	5
2¾"	38ZY66	5	38ZZ41	5
3"	39AF52	30	38TT40	5
3¼"	38ZY67	5	38ZZ42	5
3½"	39AF54	25	38TT41	5
4"	39AF55	25	38TT42	5
4½"	39AF56	20	38TT43	5
5"	39AF57	20	38TT44	5
5½"	39AF58	20	38TT45	5
6"	38TR46	1	38TT46	1
1"-8 Thread Size				
1½"	38ZU66	35	38ZT29	5
1¾"	38ZT20	5	38ZT30	5
2"	38ZU68	30	38TN36	5
2¼"	38ZU69	25	38TN37	5
2½"	38ZW82	5	38ZX81	5
2¾"	38ZW83	5	38ZX82	5
3"	38ZW84	5	38ZX83	5
3¼"	38ZW85	5	38ZX84	5
3½"	39AC29	20	38TR07	5
3¾"	38ZW86	5	38ZX85	5
4"	—	—	38TR08	5
4½"	38TN95	5	38TR09	5
5"	38TN96	5	38TR10	5
5½"	38TN97	5	38TR11	5
6"	39AC35	14	38TR12	1
1"-14 Thread Size				
1½"	38ZT58	5	38ZT91	5
1¾"	38ZT59	5	38ZT92	5
2"	38ZV54	30	38ZT93	5
2¼"	38ZT60	5	38ZT94	5
2½"	38ZY71	5	38ZZ46	5
2¾"	38ZY72	5	38ZZ47	5
3"	38ZY73	5	38ZZ48	5
3¼"	38ZY74	5	38ZZ49	5
3½"	39AF65	20	38ZZ50	5
3¾"	38ZY75	5	38ZZ51	5
4"	39AF67	15	38TT49	5
4½"	39AF68	15	38TT50	5
5"	39AF69	15	38TT51	5
5½"	39AF70	15	38ZZ52	5
6"	38TR50	1	38TT52	1
1⅛"-7 Thread Size				
2½"	38ZT21	1	38ZT31	1
3"	38ZW88	1	38ZX91	1
3½"	38ZW89	1	38ZX92	1
4"	38ZW90	1	38ZX93	1
4½"	38ZW91	1	38ZX94	1
5"	38ZW92	1	38ZX95	1
5½"	38ZW93	1	38ZX96	1
6"	38ZW94	1	38ZX97	1
1⅛"-12 Thread Size				
2½"	38ZT61	1	38ZT95	5
4"	38ZY78	1	—	—
4½"	38ZY79	1	38ZZ61	1
6"	38ZY80	1	38ZZ62	1
1¼"-7 Thread Size				
2½"	38ZT22	1	38ZT32	1
3"	38ZX03	1	38ZY03	1
3½"	38ZX04	1	38ZY04	1
4"	38ZX05	1	38ZY05	1
4½"	38ZX06	1	38ZY06	1
5"	38ZX07	1	38ZY07	1
5½"	38ZX08	1	38ZY08	1
6"	38ZX09	1	38ZY09	1
1¼"-12 Thread Size				
2½"	—	—	38ZT96	1
3"	—	—	38ZZ63	1
4"	38ZY82	1	—	—
4½"	38ZY83	1	38ZZ65	1
5"	38ZY84	1	38ZZ66	1
6"	38ZY85	1	38ZZ67	1



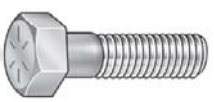
Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Grade 9 Steel Hex Head Cap Screws

- Zinc Yellow CR+3 finish

Meet L9 standards.

Fastener Length	Item No.	Pkg. Qty.
¼"-20 Dia./Thread Size		
Fully Threaded		
½"	452F37	100
¾"	452F38	100
1"	452F39	100
Partially Threaded		
1¼"	452F40	100
1½"	452F41	100
1¾"	452F42	100
2"	452F43	100
2½"	452F44	100
3"	452F45	100
3½"	452F46	100
¼"-28 Dia./Thread Size		
Fully Threaded		
½"	452F47	100
¾"	452F48	100
1"	452F49	100
Partially Threaded		
1¼"	452F50	100
1½"	452F51	100
1¾"	452F52	100
2"	452F53	100
2½"	452F54	100
3"	452F55	100
5/16"-18 Dia./Thread Size		
Fully Threaded		
½"	452F56	100
¾"	452F57	100
1"	452F58	100
1¼"	452F59	100
Partially Threaded		
1½"	452F60	100
1¾"	452F61	100
2"	452F62	100
2¼"	452F63	100
2½"	452F64	100
3"	452F65	100
3½"	452F66	50
4"	452F67	50
5/16"-24 Dia./Thread Size		
Fully Threaded		
½"	452F68	100
¾"	452F69	100
1"	452F70	100
1¼"	452F71	100
Partially Threaded		
1½"	452F72	100
1¾"	452F73	100
2"	452F74	100
2½"	452F75	100
3"	452F76	100
⅜"-16 Dia./Thread Size		
Fully Threaded		
½"	452F77	100
¾"	452F78	100
1"	452F79	100
1¼"	452F80	100
Partially Threaded		
1½"	452F81	100
1¾"	452F82	100
2"	452F83	100
2¼"	452F84	50
2½"	452F85	50
3"	452F86	50
3½"	452F87	50
4"	452F88	50
4½"	452F89	50
5"	452F90	50
6"	452F91	50
⅜"-24 Dia./Thread Size		
Fully Threaded		
¾"	452F92	100
1"	452F93	100
1¼"	452F94	100
Partially Threaded		
1½"	452F95	100
1¾"	452F96	100
2"	452F97	100
2¼"	452F98	50
2½"	452F99	50
3"	452G01	50
3½"	452G02	50
4"	452G03	50
7/16"-14 Dia./Thread Size		
Fully Threaded		
¾"	452G04	100
1"	452G05	100
1¼"	452G06	50
1½"	452G07	50
Partially Threaded		
1¾"	452G08	50
2"	452G09	50
2½"	452G10	50
3"	452G11	50
3½"	452G12	25
4"	452G13	25
5"	452G14	25
6"	452G15	25
7/16"-20 Dia./Thread Size		
Fully Threaded		
1"	452G16	100
1¼"	452G17	50
1½"	452G18	50
Partially Threaded		
1¾"	452G19	50
2"	452G20	50
2½"	452G21	50
3"	452G22	50
3½"	452G23	25
4"	452G24	25
½"-13 Dia./Thread Size		
Fully Threaded		
¾"	452G25	50
1"	452G26	50
1¼"	452G27	50
1½"	452G28	50
1¾"	452G29	50
Partially Threaded		
2"	452G30	50
2¼"	452G31	50
2½"	452G32	50
2¾"	452G33	50
3"	452G34	50
3½"	452G35	25
4"	452G36	25
4½"	452G37	25
5"	452G38	25
6"	452G39	25
7"	452G40	25
8"	452G41	25
½"-20 Dia./Thread Size		
Fully Threaded		
1"	452G42	50
1¼"	452G43	50
1½"	452G44	50
1¾"	452G45	50
2"	452G46	50
2¼"	452G47	50
2½"	452G48	50
3"	452G49	50
3½"	452G50	25
4"	452G51	25
4½"	452G52	25
5"	452G53	25
6"	452G54	25
7"	452G55	25
8"	452G56	25
9/16"-12 Dia./Thread Size		
Fully Threaded		
1"	452G57	25
1½"	452G58	25
2"	452G59	25
Partially Threaded		
2½"	452G60	25
3"	452G61	25
3½"	452G62	25
4"	452G63	25
5"	452G64	25
9/16"-18 Dia./Thread Size		
Fully Threaded		
1½"	452G65	25
2"	452G66	25
Partially Threaded		
2½"	452G67	25
3"	452G68	25
3½"	452G69	25
4"	452G70	25
⅝"-11 Dia./Thread Size		
Fully Threaded		
1"	452G71	25
1¼"	452G72	25
1½"	452G73	25
1¾"	452G74	25
2"	452G75	25
Partially Threaded		
2¼"	452G76	25
2½"	452G77	25
2¾"	452G78	25
3"	452G79	25
3½"	452G80	25
4"	452G81	25
4½"	452G82	25
5"	452G83	25
5½"	452G84	25
6"	452G85	25
7"	452G86	25
8"	452G87	25
⅝"-18 Dia./Thread Size		
Fully Threaded		
1"	452G88	25
1¼"	452G89	25
1½"	452G90	25
1¾"	452G91	25
2"	452G92	25
Partially Threaded		
2¼"	452G93	25
2½"	452G94	25
2¾"	452G95	25
3"	452G96	25
3½"	452G97	25
4"	452G98	25
4½"	452G99	25
5"	452H01	25
5½"	452H02	25
6"	452H03	25
7"	452H04	25
8"	452H05	25
9"	452H06	25
¾"-10 Dia./Thread Size		
Fully Threaded		
1½"	452H07	20
1¾"	452H08	20
2"	452H09	20
2¼"	452H10	20
2½"	452H11	20
Partially Threaded		
2¾"	452H12	20
3"	452H13	20
3¼"	452H14	20
3½"	452H15	20
4"	452H16	20
4½"	452H17	20
5"	452H18	20
5½"	452H19	20
6"	452H20	20
7"	452H21	20
8"	452H22	10
¾"-16 Dia./Thread Size		
Fully Threaded		
1½"	452H23	20
1¾"	452H24	20
2"	452H25	20
2¼"	452H26	20
2½"	452H27	20
Partially Threaded		
2¾"	452H28	20
3"	452H29	20
3½"	452H30	20
4"	452H31	20
4½"	452H32	20
5"	452H33	20
5½"	452H34	20
6"	452H35	20
7"	452H36	20
8"	452H37	20
⅞"-9 Dia./Thread Size		
Fully Threaded		
2"	452H38	15
2½"	452H39	15
Partially Threaded		
3"	452H40	15
3½"	452H41	15
4"	452H42	15
4½"	452H43	15
5"	452H44	15
5½"	452H45	15
6"	452H46	15
7"	452H47	15
8"	452H48	15
⅞"-14 Dia./Thread Size		
2"	452H49	15
2½"	452H50	15
3"	452H51	15
3½"	452H52	15
4"	452H53	15
4½"	452H54	15
5"	452H55	15
5½"	452H56	15
6"	452H57	15
7"	452H58	15
8"	452H59	15
1"-8 Dia./Thread Size		
Fully Threaded		
2"	452H60	10
2½"	452H61	10
3"	452H62	10
Partially Threaded		
3½"	452H63	10
4"	452H64	10
4½"	452H65	10
5"	452H66	10
5½"	452H67	10
6"	452H68	10
7"	452H69	10
8"	452H70	10
1"-14 Dia./Thread Size		
Fully Threaded		
2½"	452H71	10
3"	452H72	10
Partially Threaded		
3½"	452H73	10
4"	452H74	10
4½"	452H75	10
5"	452H76	10
5½"	452H77	10
6"	452H78	10
7"	452H79	10
8"	452H80	10
⅝"-11 Dia./Thread Size		
9"	452H81	25
10"	452H82	25
11"	452H83	25
12"	452H84	25
¾"-10 Dia./Thread Size		
9"	452H85	20
10"	452H86	15
11"	452H87	15
12"	452H88	15
¾"-16 Dia./Thread Size		
9"	452H89	20
10"	452H90	15
11"	452H91	15
12"	452H92	15
⅞"-9 Dia./Thread Size		
9"	452H93	15
10"	452H94	15
11"	452H95	10
12"	452H96	10
⅞"-14 Dia./Thread Size		
9"	452H97	15
10"	452H98	15
11"	452H99	10
12"	452J01	10
1"-8 Dia./Thread Size		
9"	452J02	8
10"	452J03	8
11"	452J04	8
12"	452J05	8
1"-14 Dia./Thread Size		
10"	452J06	8
11"	452J07	8
12"	452J08	8
1⅛"-7 Dia./Thread Size		
Fully Threaded		
3"	452J09	16
3½"	452J10	12
Partially Threaded		
4"	452J11	12
4½"	452J12	12
5"	452J13	8
6"	452J14	8
7"	452J15	8
10"	452J16	8
1⅛"-12 Dia./Thread Size		
Fully Threaded		
3"	452J17	16
3½"	452J18	12
Partially Threaded		
4"	452J19	12
4½"	452J20	12
5"	452J21	8
6"	452J22	8
7"	452J23	8
8"	452J24	8
10"	452J25	8
1¼"-7 Dia./Thread Size		
Fully Threaded		
3"	452J26	12
3½"	452J27	8
Partially Threaded		
4"	452J28	8
4½"	452J29	8
5"	452J30	6
5½"	452J31	6
6"	452J32	6
7"	452J33	6
8"	452J34	6
9"	452J35	6
10"	452J36	6
11"	452J37	4
12"	452J38	4
1¼"-12 Dia./Thread Size		
Fully Threaded		
3"	452J39	12
3½"	452J40	8
Partially Threaded		
4"	452J41	8
4½"	452J42	8
5"	452J43	6
5½"	452J44	6
6"	452J45	6
7"	452J46	6
8"	452J47	6
9"	452J48	6
10"	452J49	6
11"	452J50	4
12"	452J51	4
1½"-6 Dia./Thread Size		
Fully Threaded		
4"	452J52	5
Partially Threaded		
5"	452J53	5
6"	452J54	5
7"	452J55	4
8"	452J56	4
10"	452J57	4
12"	452J58	3
1½"-12 Dia./Thread Size		
Fully Threaded		
4"	452J59	5
Partially Threaded		
5"	452J60	5
6"	452J61	5
7"	452J62	4
8"	452J63	4
10"	452J64	4
1"-14 Dia./Thread Size		
9"	452J65	8
1½"-12 Dia./Thread Size		
12"	452J66	3
1⅛"-7 Dia./Thread Size		
8"	452J67	8



Armor Coat® Grade 8 Steel Hex Head Cap Screws

Armor Coat finish protects fasteners from rust and can withstand 1000 hr. of salt spray. Grade 8 is comparable to Property Class 10.9. Meet SAE J429/ASME B18.2.1 standards.

ARMOR COAT™ FASTENERS

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	5DJR0	100
¾"	5DJR1	100
1"	5DJR2	100
1¼"	5DJR3	100
1½"	5DJR4	100
1¾"	5DJR5	50
2"	5DJR6	50
2½"	5DJR7	50
2¾"	5DJR8	50
3"	5DJR9	50
3½"	5DJT0	25
4"	5DJT1	25
5"	5DJT2	10
5/16"-18 Thread Size		
¾"	5DJT3	50
1"	5DJT4	50
1¼"	5DJT5	50
1½"	5DJT6	50
1¾"	5DJT7	50
2"	5DJT8	50
2½"	5DJT9	25
2¾"	5DJU0	25
3"	5DJU1	25
3½"	5DJU2	25
4"	5DJU3	25
⅜"-16 Thread Size		
¾"	5DJU5	50
1"	5DJU6	50
1¼"	5DJU7	50
1½"	5DJU8	50
1¾"	5DJU9	25
2"	5DJV0	25
2½"	5DJV1	25
2¾"	5DJV2	25
3"	5DJV3	25
3½"	5DJV4	10
4"	5DJV5	10
4½"	5DJV6	10
5"	5DJV7	10
5½"	5DJV8	10
6"	5DJV9	10
7/16"-14 Thread Size		
1"	5DJW0	25
1½"	5DJW1	25
1¾"	5DJW2	25
2"	5DJW3	25
2½"	5DJW4	10
2¾"	5DJW5	10
3"	5DJW6	10
3½"	5DJW7	10
4"	5DJW8	10
5"	5DJW9	5
½"-13 Thread Size		
1"	5DJX0	10
1½"	5DJX1	25
1¾"	5DJX2	10
2"	5DJX3	10
2¼"	5DJX4	10
2½"	5DJX5	10
2¾"	5DJX6	10
3"	5DJX7	10
3½"	5DJX8	10
4"	5DJX9	10
4½"	5DJY0	5
5"	5DJY1	5
5½"	5DJY2	5
6"	5DJY3	5
⅝"-11 Thread Size		
1½"	5DJY4	10
1¾"	5DJY5	10
2"	5DJY6	10
2¼"	5DJY7	10
2½"	5DJY8	10
2¾"	5DJY9	5
3"	5DJZ0	5
3½"	5DJZ1	5
4"	5DJZ2	5
4½"	5DJZ3	5
5"	5DJZ4	5
5½"	5DJZ5	5
6"	5DJZ6	1
¾"-10 Thread Size		
2"	5DJZ7	5
2¼"	5DJZ8	5
2½"	5DJZ9	5
3"	5DKA0	5
3½"	5DKA1	5
4"	5DKA2	1
4½"	5DKA3	1
5"	5DKA4	1
5½"	5DKA5	1
6"	5DKA6	1

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	22A408	100
¾"	22A409	100
1"	22A410	100
1¼"	22A411	50
1½"	22A412	50
1¾"	22A413	50
2"	22A414	50
5⁄16"-18 Thread Size		
¾"	22A415	50
1"	22A416	50
1¼"	22A417	50
1½"	22A418	50
1¾"	22A419	50
2"	22A420	50
⅜"-16 Thread Size		
¾"	22A421	25
1"	4RXK3	620
1¼"	2TJ78	25
1½"	2TJ79	25
2"	22A438	25
2¼"	22A422	25
2½"	22A423	25
3"	22A424	25

Length	Item No.	Pkg. Qty.
7⁄16"-14 Thread Size		
1"	22A425	25
1¼"	22A426	25
1½"	22A427	25
1¾"	22A428	25
2"	22A429	25
2½"	22A430	25
3"	22A431	25
3½"	22A432	25
4"	22A433	25
½"-13 Thread Size		
1"	22A439	25
1¼"	2TJ80	25
1½"	2TJ81	25
1¾"	2TJ82	25
2"	2TJ83	25
2½"	2TJ84	25
2¾"	2TJ85	25
3"	2TJ86	25
4"	2TJ87	25

Length	Item No.	Pkg. Qty.
½"-20 Thread Size		
1"	22A447	25
1¼"	22A448	25
1½"	22A449	25
1¾"	22A450	25
2"	22A451	25
2½"	22A453	25
2¾"	22A454	25
3"	22A455	25
3½"	22A456	25
4"	22A457	25
5⁄8"-11 Thread Size		
1½"	22A441	25
1¾"	2TJ88	25
2"	2TJ89	25
2¼"	22A442	15
2½"	2TJ90	15
2¾"	22A443	15
3"	2TJ91	15
3½"	22A434	15
4"	22A435	15

Length	Item No.	Pkg. Qty.
5⁄8"-18 Thread Size		
1½"	22A458	25
1¾"	22A459	25
2"	22A460	25
2¼"	22A461	15
2½"	22A462	15
3"	22A463	15
3½"	2TJ92	15
¾"-10 Thread Size		
1"	4RXG6	80
1¾"	2TJ94	15
2"	22A444	15
2¼"	22A445	15
2½"	2TJ95	15
2¾"	4RXG8	65
3"	22A446	15
3½"	22A436	10
4"	22A437	10
¾"-16 Thread Size		
1¾"	22A468	15
2¼"	22A470	15
3"	22A472	15
4"	22A474	10



Grade 8 Flanged Alloy Steel Hex Head Cap Screws

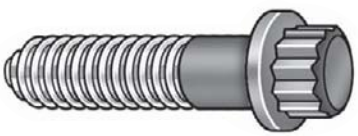
Comparable hardness to metric class 10.9. Meet SAE J429 standard.

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	21C340	100
¾"	21C341	100
1"	2FA46	100
1¼"	2FA48	50
1½"	2FA51	50
2"	2FA53	25
¼"-28 Thread Size		
¾"	2FA55	100
1"	2FA57	100
1¼"	2FA59	50
1½"	2FA61	50
5⁄16"-18 Thread Size		
¾"	2FA63	50
⅞"	2FA65	50
1"	2FA67	50
1¼"	2FA70	50
1½"	2FA72	50
1¾"	2FA74	50
2"	2FA76	25
2¼"	21C342	50
2½"	2FA78	25

Length	Item No.	Pkg. Qty.
5⁄16"-24 Thread Size		
¾"	2FA80	25
1"	2FA82	25
1¼"	2FA84	25
1½"	2FA86	25
⅜"-16 Thread Size		
¾"	21C343	25
1"	2FA88	25
1¼"	2FA91	25
1½"	2FA93	25
1¾"	21C344	25
2"	2FA97	25
2½"	2FA99	10
2¾"	21C345	10
3"	2FB11	10
3½"	2FB13	10
⅜"-24 Thread Size		
1"	2FB15	25
1¼"	2FB17	25
1½"	2FB20	25
2"	2FB22	10
2½"	2FB24	10

Length	Item No.	Pkg. Qty.
7⁄16"-14 Thread Size		
1¼"	2FB26	10
1½"	2FB28	10
2"	2FB30	10
2½"	2FB32	10
½"-13 Thread Size		
1"	2FB34	10
1¼"	2FB36	10
1½"	2FB38	10
1¾"	21C346	10
2"	2FB40	10
2¼"	21C347	10
2½"	2FB43	5
3"	2FB45	5
3½"	2FB47	5
4"	2FB49	5
½"-20 Thread Size		
1½"	2FB51	10
2"	2FB53	5
2½"	2FB55	5
5⁄8"-11 Thread Size		
1½"	21C348	5
1¾"	2FB57	5
2"	2FB59	5
2¼"	2FB62	5

Length	Item No.	Pkg. Qty.
2½"	2FB64	5
2¾"	2FB66	5
3"	2FB68	5
3½"	2FB70	5
4"	2FB72	5
¾"-10 Thread Size		
2"	2FB76	5
2½"	2FB78	5
3"	2FB80	1
3½"	4RXD1	70
4"	2FB85	1
⅞"-9 Thread Size		
2"	21C349	5
2½"	21C350	5
3"	21C351	5
3½"	21C352	1
4"	21C353	1
5"	21C354	1
5½"	21C355	1
6"	21C356	1
1"-8 Thread Size		
2½"	21C357	1
3"	21C358	1
3½"	21C359	1
4"	21C360	1
5"	21C361	1



Flanged Alloy Steel 12-Point Head Cap Screws

Screws exceed the strength of SAE Grade 8 cap screws, including greater resistance to breakage and higher shear strength. 12-pt. external head design allows higher torques without rounding head. Meet ASTM A574 standard.

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	2FB87	100
⅝"	2FB89	100
¾"	2FB91	100
1"	2FB93	100
1¼"	2FB95	50
1½"	2FB97	50
2"	2FB99	50
5⁄16"-18 Thread Size		
½"	2FE11	50
¾"	2FE14	50
1"	2FE16	50
1¼"	2FE18	50
1½"	2FE20	50

Length	Item No.	Pkg. Qty.
⅜"-16 Thread Size		
¾"	2FE22	25
1"	2FE24	25
1¼"	2FE26	25
1½"	2FE28	25
1¾"	2FE30	25
½"-13 Thread Size		
1"	2FE33	10
1¼"	2FE35	10
1½"	2FE37	10
2"	2FE39	10

Serrated-Flange Zinc-Plated Steel Hex Head Locking Screws

Serrations bite securely into materials to resist loosening. Equivalent to SAE Grade 5 screws.



Length	Item No.	Pkg. Qty.
Hex Head		
¼"-20 Thread Size		
½"	1VXR1	10
¾"	1VXR6	10
1"	1VXY7	10
1½"	1VXZ9	10
1¾"	1VZA1	10
2"	1VZA2	10
2½"	1VZA4	10
3"	1VZA6	10
5⁄16"-18 Thread Size		
¾"	1VZA7	10
⅞"	1VZA8	10
1"	1VZA9	10
1¾"	1VZB3	10
2"	1VZB4	10
2½"	1VZB6	10
2¾"	1VZB7	10
⅜"-16 Thread Size		
¾"	1VZC1	10
⅞"	1VZC2	10
1"	1VZC3	10
1¼"	1VZC4	10
1½"	1VZC5	10
1¾"	1VZC6	10
2¼"	1VZC8	10
2½"	1VZC9	10

Length	Item No.	Pkg. Qty.
2¾"	1VZD1	10
4"	1VZD5	10
5"	1VZD7	10
7⁄16"-14 Thread Size		
¾"	1VZD8	10
1"	1VZD9	10
1¼"	1VZE1	10
1¾"	1VZE3	10
2"	1VZE4	10
2½"	1VZE5	10
4"	1VZE7	10
Heavy Hex Head		
½"-13 Thread Size		
1"	1VZE8	10
1¼"	1VZE9	10
1½"	1VZF1	10
1¾"	1VZF2	10
2"	1VZF3	10
2¼"	1VZF4	10
2½"	1VZF5	10
2¾"	1VZF6	10
3"	1VZF7	10
3¼"	1VZF8	10
3½"	1VZF9	10
3¾"	1VZG1	10
4"	1VZG2	10
5"	1VZG4	10

Length	Item No.	Pkg. Qty.
5⁄8"-11 Thread Size		
1¼"	1VZG5	5
1½"	1VZG6	5
1¾"	1VZG7	5
2"	1VZG8	5
2¼"	1VZG9	5
2½"	1VZH1	5
2¾"	1VZH2	5
3"	1VZH3	5
3¼"	1VZH4	5
3½"	1VZH5	5
4"	1VZH6	5
4½"	1VZH7	5
5"	1VZH8	5
¾"-10 Thread Size		
1½"	1VZH9	5
1¾"	1VZJ1	5
2"	1VZJ2	5
2¼"	1VZJ3	5
2½"	1VZJ4	5
2¾"	1VZJ5	5
3"	1VZJ6	5
3¼"	1VZJ7	5
3½"	1VZJ8	5
4"	1VZJ9	5
4½"	1VZK1	5
5"	1VZK2	5

Length	Item No.	Pkg. Qty.
5½"	1VZK3	5
6"	1VZK4	5
⅞"-9 Thread Size		
2"	1VZK6	5
2¼"	1VZK7	5
2¾"	1VZK9	5
3"	1VZL1	5
3¼"	1VZL2	5
3½"	1VZL3	5
4"	1VZL5	5
4½"	1VZL6	5
5"	1VZL7	5
1"-8 Thread Size		
2"	1VZL8	5
2¼"	1VZL9	5
2½"	1VZN1	5
2¾"	1VZN2	5
3"	1VZN3	5
3½"	1VZN5	5
4"	1VZN6	5

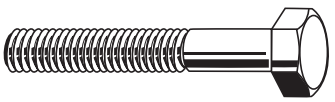


Grade B7 Steel Hex Head Cap Screws

- Plain finish

Meet ASTM A193/ASME B18.2.1 standards.

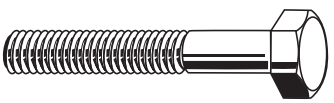
Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."



316 Stainless Steel Hex Head Cap Screws

Meet ASME B18.2.1.

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	1XB17	100
⅝"	3AUF6	100
¾"	3AUH7	100
1"	3AUD2	100
1¼"	23LC08	100
1½"	23LC09	100
1¾"	23LC10	100
1⅞"	24C580	10
2"	23LC11	50
2¼"	23LC12	50
2½"	23LC13	50
2¾"	25CV25	50
3"	3AUK9	25
3½"	3AUC7	25
4"	25CV26	25
4¼"	29DR90	25
5"	25CV27	25
5½"	29DR92	10
⅝"-18 Thread Size		
½"	23LC14	100
⅝"	22TK82	100
¾"	23LC15	100
1"	23LC16	50
1¼"	23LC17	50
1½"	23LC18	50
1¾"	23LC19	50
2"	23LC20	50
2¼"	22TK83	25
2½"	22TK84	25
2¾"	25CV28	25
3"	22TK85	25
3½"	22TK86	25
4"	3AUH8	10
⅜"-16 Thread Size		
½"	25CV29	50
¾"	23LC22	50
⅞"	25CV30	50
1"	23LC23	50
1⅛"	24C586	10
1¼"	23LC24	50
1½"	3AUD4	25
1¾"	23LC25	25
2"	23LC26	25
2¼"	23LC27	25
2½"	22TK87	25
2¾"	23LC28	25
3"	3AUH5	10
3½"	23LC29	10
4"	22TK88	10
4½"	22TK89	10
4¾"	24C589	5
5"	22TK90	10
5¾"	24C591	5
6"	22TK91	10
7⁄16"-14 Thread Size		
1"	25CV31	25
1½"	25CV32	25
2"	25CV33	10
3½"	30P095	5
4"	30P096	5
½"-13 Thread Size		
¾"	3AUP3	10
1"	3AUH4	10
1¼"	3AUF3	10
1½"	3AUE6	10
1¾"	23LC32	10
2"	23LC33	10
2¼"	23LC34	10
2½"	23LC35	10
2¾"	22TK92	10
3"	3AUE2	5
3¼"	24L090	5
3½"	3AUH1	5
4"	3AUE7	5
4½"	3AUJ9	5
4¾"	29DT15	5
5"	3AUD3	5
5½"	24C599	5
6"	3AUC2	5
6½"	29DT16	5
⅝"-11 Thread Size		
1"	23LC37	10
1¼"	23LC38	10
1½"	23LC39	10
1¾"	23LC40	10
2"	3AUE3	5
2¼"	3AUC9	5
2½"	3AUA5	5
2¾"	3AUD5	5
3"	3AUD1	5
3¼"	3AUE4	5
3½"	3ATZ8	5
3¾"	3ATY5	5
4"	3AUC5	5
4½"	24L115	5
5"	24L116	5
5¼"	24C608	5
5½"	24L117	5
6"	22TK96	5
6½"	24C609	1
¾"-10 Thread Size		
1"	3AUL3	5
1¼"	24L121	5
2"	3AUC3	5
2¼"	3AUA6	5
2½"	24L126	5
2¾"	3AUD6	5
3"	23LC45	5
3¼"	22TK98	5
3½"	23LC46	5
4"	23LC47	5
4¼"	24C617	1
4½"	23LC48	5
4¾"	29DT37	5
5"	22TK99	5
5½"	22TL01	5
6"	22TL02	5
⅞"-9 Thread Size		
1½"	25CV45	5
1¾"	24C619	1
2"	25CV46	5
2½"	25CV47	5
3"	25CV48	5
3½"	25CV49	5
3¾"	29DT45	5
4"	22TL03	5
4¼"	24C625	1
4½"	25CV50	5
4¾"	24C627	1
5"	25CV51	5
6"	22TL04	5
6½"	29DT48	5
1"-8 Thread Size		
2"	25CV52	5
2½"	22TK94	5
3"	25CV53	5
3½"	22TL06	5
3¾"	24C636	1
4"	22TL07	5
4½"	25CV54	5
5"	25CV55	5
5½"	25CV56	5
6"	22TL08	5
6½"	29DT58	1
1¼"-7 Thread Size		
4"	25CV57	1
5"	25CV58	1



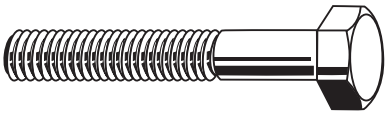
18-8 Stainless Steel Hex Head Cap Screws

Meet ASME B128.2.1, except Nos. 1XE66, 1YB12, 1YB15, and 1YB17.

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
⅜"	1XE66	100
½"	3AUY9	100
⅝"	3AUY6	100
¾"	3AUV3	100
⅞"	3AUU8	100
1"	3AUV5	100
1⅛"	24K832	25
1¼"	3AUW2	100
1⅜"	3AVC8	100
1½"	3AVE4	100
1¾"	3AUZ5	100
1⅞"	24C551	25
2"	30Z502 †	10
2"	40TW46	50
2¼"	40TW47	50
2½"	3AUW9	50
2¾"	3AUY4	50
3"	3AVP1	25
3¼"	3AVE2	25
3½"	3AVD8	25
3¾"	3AVC3	25
4"	3AVA5	25
4¼"	25CP17	25
4½"	3AUZ8	25
5"	3AUZ6	25
5½"	1XU99	10
6"	24K849	10
¼"-28 Thread Size		
½"	3AVC9	100
⅝"	1XE81	100
¾"	3AUW5	100
1"	3AVE3	100
3"	25CV12	50
5⁄16"-18 Thread Size		
½"	3AUT8	100
⅝"	3AUR7	100
¾"	3AUT6	100
⅞"	24K853	50
1"	23LA83	50
1⅛"	24K855	25
1¼"	3AUV1	50
1⅜"	3AVE1	50
1½"	3AUV8	50
1¾"	22TK68	50
2"	23LA84	50
2¼"	3AVC5	25
2½"	3AVA6	25
2¾"	3AUZ4	25
3"	30Z506 †	5
3"	3AUY8	25
3¼"	3AUY1	25
3½"	3AUX4	25
4"	24K867	10
4½"	3AVL6	10
5"	3AVC7	10
5½"	3AUZ9	10
6"	3AVD5	10
⅝"-24 Thread Size		
½"	24L172	50
⅝"	24L173	50
¾"	24L174	50
⅞"	1XU10	50
1"	3AVA1	50
3½"	25CV13	25
4"	1XY44	10
⅜"-16 Thread Size		
¾"	30Z507 †	10
⅞"	3AUT5	50
1⅛"	24K877	25
1¼"	3AUT9	50
1⅜"	3AVK2	25
1½"	3AUY5	25
1¾"	3AUZ1	25
2"	3AVD1	25
2½"	30Z508 †	5
2¾"	40TW51	25
3"	30Z509 †	5
3"	3AVG6	10
3¼"	3AVC2	10
3½"	40TW52	10
3¾"	3AVA4	10
4½"	3AUX7	10
5"	3AUY7	10
5½"	3AUX8	10
6"	3AUX3	10
⅜"-24 Thread Size		
½"	25CV14	50
¾"	25CV15	50
1"	25CV16	50
1¼"	25CV17	50
2½"	25CV34	25
2¾"	25CV35	25
3½"	25CV36	10
4"	25CV37	10
7⁄16"-14 Thread Size		
¾"	30P092	25
1"	30P093	25
1¼"	30P094	25
1¾"	3AVJ3	10
2"	3AVF1	10
2½"	3AVF3	10
3"	3AVE9	10
3½"	3AVG4	5
4"	3AVJ4	5
4½"	24K907	5
5"	24K908	5
7⁄16"-20 Thread Size		
1"	3AVJ5	25
1¼"	25CV38	25
1½"	25CV40	25
2"	3AVN6	10
2½"	3AVN4	10
3"	3AVL7	10
½"-13 Thread Size		
½"	3AVN1	25
⅝"	3AUR2	25
¾"	24K909	10
1"	24K911	10
1¼"	24K912	10
1½"	24K913	10
1¾"	3AUV7	10
2"	3AUV4	10
2¼"	3AVC1	10
2½"	3AVA7	10
2¾"	3AUW7	10
3"	24K919	5
3"	30Z511 †	5
3¼"	3AVZ7	5
3½"	3AVY9	5
3¾"	3AVY2	5
4"	3AVU7	5
6"	3AVU6	5
½"-20 Thread Size		
¾"	1XU54	10
1"	24L202	10
1½"	24L204	10
4"	24L211	1
4½"	25CV41	5
5"	25CV42	5
5½"	25CV43	5
6"	22TG69	5
9⁄16"-12 Thread Size		
1½"	25CV04	10
2"	24K937	5
2½"	24K938	5
3"	24K939	5
3½"	24K940	5
4"	24K941	5
⅝"-11 Thread Size		
1"	3AUU4	10
1¼"	3AUR5	10
1½"	3AUU9	10
1¾"	3AUT3	10
2"	24K946	5
2¼"	3AVY4	5
2½"	3AVT8	5
2¾"	3AVZ5	5
3¼"	3AVZ3	5
3½"	3AVX9	5
3¾"	3AVX6	5
4"	3AVX8	5
4½"	3AVR1	5
5"	3AVT5	5
5¼"	24C562	5
5½"	3AVU8	5
6"	23LA97	5
⅝"-18 Thread Size		
1"	22TG70	10
1¼"	22TG71	10
1½"	23LA85	10
1¾"	23LA87	10
2½"	24C656	5
3"	23LA88	5
3½"	23LA89	5
4"	23LA90	5
¾"-10 Thread Size		
1"	3AVN9	5
1¼"	24K965	5
1½"	3AUU3	5
1¾"	3AUU7	5
2"	3AUU5	5
2¼"	24K969	5
2½"	24K970	5
2¾"	3AVR7	5
3"	3AVR5	5
3¼"	3AVR9	5
3½"	3AVT3	5
3¾"	3AVT4	5
4"	3AVT2	5
4½"	24K977	5
5"	24K978	5
5½"	24K979	5
6"	23LC04	5
¾"-16 Thread Size		
1½"	24C659	5
2"	24C661	5
2½"	24C663	5
3"	23LA91	5
3½"	23LC01	5
4"	23LC02	5
5"	23LC03	5
⅞"-9 Thread Size		
1½"	25CV06	5
1¾"	25CV07	5
2"	25CV18	5
2¼"	25CV08	5
2½"	25CV19	5
2¾"	25CV09	5
3"	23LC05	5
3½"	22TK75	5
4"	23LC06	5
4½"	25CV20	5
5"	25CV10	5
6"	25CV21	5
1"-8 Thread Size		
2"	25CV22	5
2½"	25CV23	5
2¾"	24C571	1
3"	25CV24	5
3¼"	24C573	1
3½"	22TK76	5
3¾"	24C574	1
4"	22TK77	5
4¼"	24C575	1
4½"	22TK78	5
5"	22TK79	5
5½"	22TK80	5
6"	22TK81	5
1⅛"-7 Thread Size		
3"	29DN93	1
5"	1YB12	1
1¼"-7 Thread Size		
3"	29DP02	1
4"	1YB15	1
5"	29DP04	1
6"	1YB17	1

† Left-hand threaded.

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."



Metric Class 8.8 Steel Hex Head Cap Screws

Comparable to SAE Grade 5 fasteners.

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
M3-0.50 Thread Size					
6mm	Full	25DE93	100	—	—
8mm	Full	25DE94	100	—	—
10mm	Full	25DE95	100	—	—
12mm	Full	25DE96	100	—	—
16mm	Full	25DE97	100	—	—
20mm	Full	25DE98	100	—	—
25mm	Full	25DE99	100	—	—
M4-0.70 Thread Size					
6mm	Full	6AU61	100	—	—
8mm	Full	6AU62	100	25DC97	100
10mm	Full	6AU63	100	25DC98	100
12mm	Full	6AU64	100	25DC99	100
16mm	Full	6AU65	100	25DD01	100
20mm	Full	6AU66	100	25DD02	100
25mm	Full	6AU67	100	25DD03	100
30mm	Partial	—	—	25CV59	100
	Full	6AU68	100	25DD04	100
35mm	Full	6AU69	100	25DD05	100
40mm	Partial	—	—	25CV60	100
	Full	6AU70	100	25DD06	100
50mm	Full	25DF01	100	—	—
	Partial	6AV93	100	—	—
M5-0.80 Thread Size					
6mm	Full	6AU71	100	—	—
8mm	Full	6AU72	100	25DD07	100
10mm	Full	6AU73	100	25DD08	100
12mm	Full	6AU74	100	25DD09	100
16mm	Full	6AU75	100	25DD10	100
18mm	Full	25DF02	100	25DD11	100
20mm	Full	6AU76	100	25DD12	100
25mm	Full	6AU77	100	25DD13	100
30mm	Partial	22TL09	100	25CV61	100
	Full	6AU78	100	25DD14	100
35mm	Partial	25CY12	100	—	—
	Full	6AU79	100	25DD15	100
40mm	Partial	25CY13	100	25CV63	100
	Full	6AU80	100	25DD16	100
45mm	Partial	25CY14	100	25CV64	100
	Full	6AU81	100	—	—
50mm	Partial	25CY15	100	25CV65	100
	Full	6AU82	100	—	—
55mm	Partial	25CY16	100	25CV66	100
60mm	Full	22TM95	100	—	—
	Partial	25CY17	100	25CV67	100
65mm	Partial	22TL10	100	—	—
70mm	Partial	25CY18	100	—	—
80mm	Partial	25CY19	100	—	—
M6-1.00 Thread Size					
8mm	Full	6AU84	100	25DD17	100
10mm	Full	6AU85	100	25DD18	100
12mm	Full	6AU86	100	25DD19	100
14mm	Full	25DF03	100	25DD20	100
16mm	Full	6AU87	100	25DD21	100
18mm	Full	22TM96	100	25DD22	100
20mm	Full	6AU89	100	25DD23	100
22mm	Full	25DF04	100	25DD24	100
25mm	Full	6AU90	100	25DD25	100
30mm	Partial	—	—	25CV68	100
	Full	6AU91	100	25DD26	100
35mm	Partial	22TL12	100	25CV69	100
	Full	6AU92	100	25DD27	100
40mm	Partial	22TL13	100	25CV70	100
	Full	6AU93	100	25DD28	100
45mm	Partial	—	—	25CV71	100
	Full	6AU94	100	25DD29	100
50mm	Partial	22TL15	100	25CV72	100
	Full	6AU95	100	25DD30	100
55mm	Partial	22TL16	100	25CV73	100
60mm	Partial	22TL17	100	25CV74	100
	Full	25DF05	100	25DD31	100
65mm	Partial	22TL18	100	25CV75	100
	Full	25DF06	100	—	—
70mm	Partial	22TL19	100	25CV76	100
	Full	25DF07	100	25DD32	100
75mm	Partial	25CY20	100	25CV77	100
80mm	Partial	22TL20	100	25CV78	100
	Full	25DF08	100	25DD33	100
90mm	Partial	6AY17	50	25CV79	50
	Full	25DF09	50	—	—
100mm	Partial	22TL21	50	—	—
110mm	Partial	25CY21	50	—	—
120mm	Partial	25CY22	50	—	—

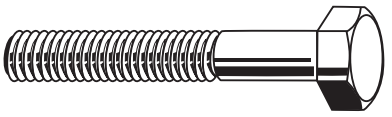
Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
M7-1.00 Thread Size					
12mm	Full	6AU96	100	—	—
16mm	Full	6AU97	100	25DD34	100
20mm	Full	6AU98	100	25DD35	100
25mm	Full	6AU99	100	25DD36	100
30mm	Full	6AV13	100	25DD37	100
35mm	Full	6AV14	100	25DD38	100
40mm	Full	22TM97	100	25DD39	100
	Partial	25CY23	100	25CV81	100
45mm	Full	22TM98	100	—	—
50mm	Full	22TM99	100	—	—
	Partial	25CY25	100	25CV82	100
60mm	Partial	25CY26	100	25CV83	100
M8-1.25 Thread Size					
10mm	Full	6AV18	100	25DD40	100
12mm	Full	6AV19	100	25DD41	100
14mm	Full	25DF10	100	25DD42	100
16mm	Full	6AV21	100	25DD43	100
18mm	Full	25DF11	100	25DD44	100
20mm	Full	6AV25	100	25DD45	100
22mm	Full	22TN01	100	25DD46	100
25mm	Full	6AV27	100	25DD47	100
30mm	Full	6AV28	100	25DD48	100
35mm	Partial	—	—	25CV84	100
	Full	6AV29	100	25DD49	100
40mm	Partial	—	—	25CV85	100
	Full	6AV31	100	25DD50	100
45mm	Partial	22TL24	100	25CV86	100
	Full	22TN02	100	25DD51	100
50mm	Partial	22TL25	100	25CV87	100
	Full	22TN03	100	25DD52	100
55mm	Partial	22TL26	100	25CV88	100
	Full	25DF12	100	25DD53	100
60mm	Partial	22TL27	100	25CV89	100
	Full	25DF13	100	25DD54	100
65mm	Partial	25CY27	100	25CV90	100
	Full	25DF14	100	25DD55	100
70mm	Partial	22TL28	100	25CV91	100
	Full	25DF15	100	25DD56	100
75mm	Partial	25CY28	100	25CV92	100
80mm	Partial	22TL29	100	25CV93	100
	Full	25DF16	100	25DD57	100
90mm	Partial	22TL30	50	25CV94	50
	Full	25DF17	50	25DD58	50
100mm	Partial	22TL31	50	25CV95	50
	Full	25DF18	50	25DD59	50
110mm	Partial	22TL32	50	25CV96	50
120mm	Partial	22TL33	50	25CV97	50
130mm	Partial	22TL34	50	25CV98	50
140mm	Partial	22TL35	25	25CV99	25
150mm	Partial	22TL36	25	25CW01	25
M8-1.00 Thread Size					
10mm	Full	6BA20	50	—	—
16mm	Full	—	—	25DJ46	100
20mm	Full	6BA21	50	25DJ47	100
25mm	Full	6BA22	50	25DJ48	100
30mm	Full	6BA23	50	25DJ49	100
35mm	Full	—	—	25DJ50	100
40mm	Partial	6BA47	25	25DH56	100
	Full	6BA24	50	25DJ51	100
50mm	Partial	6BA48	25	25DH57	100
60mm	Partial	6BA49	25	25DH58	100
70mm	Partial	—	—	25DH59	100
80mm	Partial	—	—	25DH60	100
90mm	Partial	—	—	25DH61	50
M10-1.50 Thread Size					
12mm	Full	25DF19	100	25DD60	100
16mm	Full	22TN04	100	25DD61	100
20mm	Full	22TN05	100	25DD62	100
25mm	Full	22TN06	100	25DD63	100
30mm	Full	22TN07	100	25DD64	100
35mm	Full	22TN08	100	25DD65	100
40mm	Full	22TN09	50	25DD66	50
	Partial	—	—	25CW02	50
45mm	Full	22TN10	50	25DD67	50
	Partial	25CY29	50	25CW03	50
50mm	Full	22TN11	50	25DD68	50
	Partial	6AY34	50	25CW04	50
55mm	Partial	22TL40	50	25CW05	50
	Full	25DF20	50	25DD69	50
60mm	Partial	22TL41	50	25CW06	50
	Full	25DF21	50	25DD70	50

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
65mm	Partial	22TL42	50	25CW07	50
	Full	25DF22	50	25DD71	50
70mm	Partial	22TL43	50	25CW08	50
	Full	25DF23	50	25DD72	50
75mm	Partial	22TL44	50	25CW09	50
	Full	25DF24	50	25DD73	50
80mm	Partial	22TL45	50	25CW10	50
	Full	25DF25	50	25DD74	50
90mm	Partial	22TL46	50	—	—
	Full	25DF26	50	25DD75	50
100mm	Partial	22TL47	50	—	—
	Full	25DF27	50	25DD76	50
110mm	Partial	22TL48	25	—	—
120mm	Partial	22TL49	25	25CW15	25
	Full	25DF28	25	25DD77	25
130mm	Partial	22TL50	25	—	—
140mm	Partial	22TL51	25	—	—
150mm	Partial	22TL52	25	—	—
M10-1.25 Thread Size					
20mm	Full	6BA25	25	25DJ52	100
25mm	Full	6BA26	25	25DJ53	100
30mm	Full	6BA27	25	25DJ54	100
35mm	Full	6BA28	25	25DJ55	100
40mm	Partial	6BA50	25	25DH62	50
	Full	6BA29	25	25DJ56	50
45mm	Full	—	—	25DJ57	50
	Partial	6BA51	25	—	—
50mm	Partial	6BA52	10	25DH63	50
	Full	—	—	25DJ58	50
60mm	Partial	6BA53	10	25DH64	50
70mm	Partial	6BA54	10	25DH65	50
75mm	Partial	1GLZ5	10	—	—
80mm	Partial	6BA55	10	25DH67	50
90mm	Partial	—	—	25DH68	50
100mm	Partial	—	—	25DH69	50
120mm	Partial	—	—	25DH70	25
M10-1.00 Thread Size					
40mm	Full	6BA30	25	—	—
50mm	Partial	6BA56	25	—	—
M12-1.75 Thread Size					
16mm	Full	22TN12	50	25DD78	50
20mm	Full	22TN13	50	25DD79	50
25mm	Full	22TN14	50	25DD80	50
30mm	Full	22TN15	50	25DD81	50
35mm	Full	22TN16	50	25DD82	50
40mm	Full	22TN17	50	25DD83	50
45mm	Full	22TN18	50	25DD84	50
	Partial	25CY31	50	25CW22	50
50mm	Full	22TN19	50	25DD85	50
	Partial	25CY32	50	25CW23	50
55mm	Partial	22TL55	50	—	—
	Full	25DF29	50	25DD86	50
60mm	Partial	22TL56	50	25CW25	50
	Full	25DF30	50	25DD87	50
65mm	Partial	22TL57	50	25CW26	50
	Full	25DF31	50	25DD88	50
70mm	Partial	22TL58	25	25CW27	25
	Full	25DF32	25	25DD89	25
75mm	Partial	22TL59	25	—	—
	Full	25DF33	25	—	—
80mm	Partial	22TL60	25	25CW29	25
	Full	25DF34	25	25DD90	25
85mm	Partial	—	—	25CW30	25
90mm	Partial	22TL61	25	25CW31	25
	Full	25DF35	25	25DD91	25
100mm	Partial	22TL62	25	25CW32	25
	Full	25DF36	25	25DD92	25
110mm	Partial	22TL63	25	25CW33	25
120mm	Partial	22TL64	25	25CW34	25
	Full	—	—	25DD93	25
130mm	Partial	22TL65	25	25CW35	25
140mm	Partial	22TL66	25	25CW36	25
	Full	—	—	25DD94	25
150mm	Partial	25CY33	25	25CW37	25
M12-1.50 Thread Size					
20mm	Full	6BA37	25	25DJ59	50
25mm	Full	6BA38	25	25DJ60	50
30mm	Full	6BA39	25	25DJ61	50
35mm	Full	6BA40	25	25DJ62	50
40mm	Full	6BA41	10	25DJ63	50
45mm	Full	—	—	25DJ64	50

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
50mm	Partial	6BA64	10	25DH72	50
	Full	6BA42	25	25DJ65	50
55mm	Partial	—	—	25DH73	50
60mm	Full	—	—	25DJ66	50
	Partial	6BA65	10	—	—
65mm	Partial	6BA66	10	25DH75	50
70mm	Partial	6BA67	10	25DH76	25
80mm	Partial	6BA68	5	—	—
100mm	Partial	6BA69	5	—	—
120mm	Partial	—	—	25DH80	25
M12-1.25 Thread Size					
20mm	Full	6BA31	25	—	—
25mm	Full	6BA32	25	—	—
30mm	Full	6BA33	25	—	—
35mm	Full	6BA34	10	—	—
40mm	Full	6BA35	10	—	—
45mm	Full	1GLZ6	10	—	—
50mm	Full	6BA36	25	—	—
	Partial	6BA57	10	—	—
60mm	Partial	6BA58	10	—	—
65mm	Partial	1GLZ7	10	—	—
70mm	Partial	6BA59	10	—	—
80mm	Partial	6BA60	10	—	—
90mm	Partial	6BA61	10	—	—
100mm	Partial	6BA62	10	—	—
110mm	Partial	6BA63	10	—	—
M14-2.00 Thread Size					
20mm	Full	25DF37	50	25DD96	50
25mm	Full	22TN20	50	25DD97	50
30mm	Full	22TN21	50	25DD98	50
35mm	Full	22TN22	50	25DD99	50
40mm	Full	22TN23	50	25DE01	50
45mm	Full	22TN24	25	25DE02	25
50mm	Full	22TN25	25	25DE03	25
	Partial	25CY34	25	—	—
55mm	Partial	25CY35	25	—	—
	Full	25DF38	25	25DE04	25
60mm	Partial	22TL69	25	25CW43	25
	Full	22TN26	25	25DE05	25
65mm	Partial	25CY36	25	—	—
70mm	Partial	22TL70	25	25CW45	25
	Full	25DF39	25	25DE06	25
75mm	Partial	25CY37	25	25CW46	25
	Full	25DF40	25	—	—
80mm	Partial	22TL71	25	25CW47	25
	Full	25DF41	25	25DE07	25
90mm	Partial	22TL72	25	25CW48	25
100mm	Partial	22TL73	25	25CW49	25
	Full	25DF42	25	25DE08	25
110mm	Partial	25CY38	25	25CW50	25
120mm	Partial	22TL74	25	25CW51	25
130mm	Partial	22TL75	25	—	—
140mm	Partial	22TL76	10	—	—
150mm	Partial	22TL77	10	—	—
M14-1.50 Thread Size					
25mm	Full	—	—	25DJ68	50
30mm	Full	6BA43	10	25DJ69	50
35mm	Full	6BA44	10	—	—
40mm	Full	6BA45	10	—	—
45mm	Full	—	—	25DJ72	25
50mm	Full	6BA46	5	25DJ73	25
70mm	Partial	—	—	25DH85	25
80mm	Partial	—	—	25DH86	25
100mm	Partial	—	—	25DH88	25
M16-2.00 Thread Size					
20mm	Full	25DF43	25	25DE09	25
25mm	Full	22TN27	25	25DE10	25
30mm	Full	22TN28	25	25DE11	25
35mm	Full	22TN29	25	25DE12	25
40mm	Full	22TN30	25	25DE13	25
45mm	Full	22TN31	25	25DE14	25
50mm	Full	22TN32	25	25DE15	25
	Partial	25CY39	25	25CW57	25
55mm	Full	22TN33	25	25DE16	25
	Partial	25CY40	25	—	—
60mm	Partial	22TL80	25	25CW59	25
	Full	22TN34	25	25DE17	25
65mm	Partial	25CY41	10	25CW60	10
	Full	25DF44	10	—	—
70mm	Partial	22TL81	10	25CW61	10
	Full	25DF45	10	25DE18	10

CONTINUED

CONTINUED



Metric Class 8.8 Steel Hex Head Cap Screws

Comparable to SAE Grade 5 fasteners.

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
75mm	Partial	22TL82	10	—	—
	Full	25DF46	10	25DE19	10
80mm	Partial	22TL83	10	25CW63	10
	Full	25DF47	10	25DE20	10
85mm	Partial	—	—	25CW64	10
90mm	Partial	22TL84	10	25CW65	10
	Full	25DF48	10	25DE21	10
100mm	Partial	22TL85	10	25CW66	10
	Full	25DF49	10	25DE22	10
110mm	Partial	22TL86	10	25CW67	10
120mm	Partial	22TL87	10	25CW68	10
	Full	25DF50	10	25DE23	10
130mm	Partial	22TL88	10	25CW69	10
	Full	—	—	25DE24	10
140mm	Partial	22TL89	10	25CW70	10
150mm	Partial	22TL90	10	25CW71	10
	Full	—	—	25DE25	10
M16-1.50 Thread Size					
20mm	Full	—	—	25DJ74	25
25mm	Full	—	—	25DJ75	25
30mm	Full	—	—	25DJ76	25
35mm	Full	—	—	25DJ77	25
40mm	Full	—	—	25DJ78	25
45mm	Full	—	—	25DJ79	25
50mm	Full	—	—	25DJ80	25
55mm	Partial	—	—	25DH89	25
60mm	Partial	—	—	25DH90	25
65mm	Partial	—	—	25DH91	10
70mm	Partial	—	—	25DH92	10
75mm	Partial	—	—	25DH93	10
80mm	Partial	—	—	25DH94	10
	Full	—	—	25DJ81	10
90mm	Partial	—	—	25DH95	10
100mm	Partial	—	—	25DH96	10

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
120mm	Partial	—	—	25DH98	10
130mm	Partial	—	—	25DH99	10
140mm	Partial	—	—	25DJ01	10
M18-2.50 Thread Size					
30mm	Full	25DF51	25	25DE26	25
35mm	Full	25DF52	25	—	—
40mm	Full	22TN35	25	25DE28	25
45mm	Full	25DF53	25	25DE29	25
50mm	Full	25DF54	25	25DE30	25
55mm	Full	25DF55	10	—	—
60mm	Partial	25CY44	10	—	—
	Full	6AV80	10	25DE32	10
65mm	Partial	25CY45	10	—	—
70mm	Partial	25CY46	10	—	—
	Full	25DF56	10	25DE33	10
75mm	Partial	25CY47	10	—	—
80mm	Partial	—	—	25CW87	10
	Full	25DF57	10	25DE34	10
90mm	Partial	25CY49	10	25CW88	10
	Full	25DF58	10	—	—
100mm	Partial	25CY50	10	—	—
	Full	6AV81	10	25DE36	10
110mm	Partial	25CY51	10	—	—
120mm	Partial	25CY52	10	25CW91	10
	Full	—	—	25DE37	10
130mm	Partial	—	—	25CW92	10
140mm	Partial	—	—	25CW93	10
150mm	Partial	25CY55	10	—	—
M20-2.50 Thread Size					
30mm	Full	6AV82	10	25DE38	10
35mm	Full	6AV83	10	—	—
40mm	Full	6AV84	10	25DE40	10
45mm	Full	6AV85	10	25DE41	10
50mm	Full	6AV86	10	25DE42	10

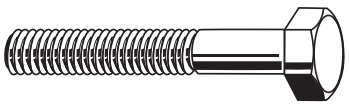
Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
55mm	Full	25DF59	10	25DE43	10
60mm	Partial	6AY88	10	25CW98	10
	Full	25DF60	10	25DE44	10
65mm	Full	25DF61	10	25DE45	10
70mm	Partial	6AY89	10	25CX01	10
	Full	25DF62	10	25DE46	10
75mm	Partial	25CY58	10	25CX02	10
80mm	Partial	22TL92	10	25CX03	10
	Full	25DF63	10	25DE47	10
90mm	Partial	22TL93	10	25CX04	10
	Full	25DF64	10	25DE48	10
100mm	Partial	22TL94	10	—	—
	Full	25DF65	10	25DE49	10
110mm	Partial	22TL95	10	—	—
120mm	Partial	22TL96	10	25CX07	10
	Full	25DF66	10	25DE50	10
130mm	Partial	22TL97	10	—	—
140mm	Partial	22TL98	10	25CX09	10
	Full	—	—	25DE51	10
150mm	Partial	22TL99	10	—	—
M22-2.50 Thread Size					
40mm	Full	—	—	25DE55	10
50mm	Full	25DF67	10	—	—
55mm	Full	—	—	25DE57	10
60mm	Full	—	—	25DE58	10
80mm	Full	25DF72	10	—	—
100mm	Partial	25CY62	5	25CX30	5
	Full	—	—	25DE62	5
140mm	Partial	—	—	25CX34	5
150mm	Partial	—	—	25CX35	5
M24-3.00 Thread Size					
40mm	Full	25DF73	10	25DE63	10
45mm	Full	25DF74	10	25DE64	10
50mm	Full	22TN36	10	25DE65	10

Length	Thread Style	Zinc Plated Item No.	Zinc Plated Pkg. Qty.	Plain Item No.	Plain Pkg. Qty.
60mm	Full	22TN37	10	25DE66	10
65mm	Full	25DF76	10	—	—
70mm	Partial	22TM04	10	—	—
	Full	22TN38	10	25DE68	10
75mm	Full	—	—	25DE69	10
80mm	Partial	22TM05	10	—	—
	Full	22TN39	10	25DE70	10
90mm	Partial	22TM06	5	25CX46	5
100mm	Partial	22TM07	5	—	—
	Full	25DF78	5	—	—
120mm	Partial	22TM08	5	25CX49	5
130mm	Partial	22TM09	5	—	—
140mm	Partial	22TM10	5	25CX51	5
M27-3.00 Thread Size					
110mm	Partial	—	—	25CX68	5
140mm	Partial	—	—	25CX70	5
M30-3.50 Thread Size					
70mm	Full	—	—	25DE81	5
75mm	Full	—	—	25DE82	5
80mm	Full	—	—	25DE83	5
90mm	Full	—	—	25DE84	5
100mm	Partial	—	—	25CX74	5
	Full	—	—	25DE85	5
110mm	Partial	—	—	25CX75	5
120mm	Partial	—	—	25CX76	5
130mm	Partial	—	—	25CX77	5
140mm	Partial	—	—	25CX78	5
150mm	Partial	—	—	25CX79	5
M36-4.00 Thread Size					
100mm	Full	—	—	25DE91	5
120mm	Partial	—	—	25CX92	5
150mm	Partial	—	—	25CX95	5



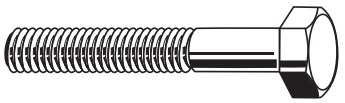
Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."

Metric Class 10.9 Coarse Pitch Hex Head Cap Screws



Length	Thread Style	Fastener Finish	Item No.	Pkg. Qty.
M6-1.00 Thread Size				
10mm	Full	Plain	25DF79	100
12mm	Full	Plain	25DF80	100
	Full	Zinc Yellow	6AE65	100
16mm	Full	Plain	25DF81	100
	Full	Zinc Yellow	6AE66	100
20mm	Full	Plain	25DF82	100
	Full	Zinc Yellow	6AE67	100
25mm	Full	Plain	25DF83	100
	Full	Zinc Yellow	6AE68	100
30mm	Partial	Plain	25CY67	100
	Full	Plain	25DF84	100
	Full	Zinc Yellow	6AE69	100
	Partial	Zinc Yellow	6AJ88	100
35mm	Full	Zinc Yellow	23LC57	100
40mm	Partial	Plain	25CY68	100
	Partial	Plain	25CY69	100
	Full	Plain	25DF85	100
	Partial	Zinc Yellow	6AJ90	100
45mm	Partial	Plain	25CY70	100
	Full	Plain	25DF86	100
50mm	Partial	Plain	25CY71	100
	Full	Plain	25DF87	100
	Partial	Zinc Yellow	6AJ92	100
55mm	Partial	Plain	25CY72	100
60mm	Partial	Plain	25CY73	100
70mm	Partial	Plain	25CY74	100
80mm	Partial	Plain	25CY75	100
M8-1.25 Thread Size				
10mm	Full	Plain	25DF88	100
12mm	Full	Plain	25DF89	100
16mm	Full	Zinc Yellow	22TN40	100
	Full	Plain	25DF90	100
20mm	Full	Zinc Yellow	22TN41	100
	Full	Plain	25DF91	100
25mm	Full	Zinc Yellow	23LC58	100
	Full	Plain	25DF92	100
	Full	Zinc Yellow	23LC59	100
30mm	Partial	Plain	25CY76	100
	Full	Plain	25DF93	100
	Partial	Zinc Yellow	6AJ95	25
	Full	Zinc Yellow	23LC60	100
35mm	Partial	Plain	25CY77	100
	Full	Plain	25DF94	100
40mm	Partial	Plain	25CY78	100
	Full	Plain	25DF95	100
	Partial	Zinc Yellow	6AJ96	25
45mm	Partial	Plain	25CY79	100
50mm	Partial	Zinc Yellow	23LC49	100
	Partial	Plain	25CY80	100
	Full	Plain	25DF96	100
60mm	Partial	Zinc Yellow	22TM15	100
	Partial	Plain	25CY81	100
70mm	Partial	Zinc Yellow	22TM16	100
	Partial	Plain	25CY82	100
80mm	Partial	Zinc Yellow	22TM17	100
	Partial	Plain	25CY83	100
90mm	Partial	Zinc Yellow	22TM18	50
	Partial	Plain	25CY84	50
100mm	Partial	Zinc Yellow	22TM19	50
	Partial	Plain	25CY85	50
120mm	Partial	Plain	25CY87	50
M8-1.00 Thread Size				
20mm	Full	Plain	25DJ82	100
25mm	Full	Plain	25DJ83	100
30mm	Full	Plain	25DJ84	100
35mm	Full	Plain	25DJ85	100
40mm	Full	Plain	25DJ86	100
50mm	Partial	Plain	25DJ02	100
60mm	Partial	Plain	25DJ03	100
70mm	Partial	Plain	25DJ04	100
80mm	Partial	Plain	25DJ05	100
M10-1.50 Thread Size				
16mm	Full	Zinc Yellow	22TN42	100
	Full	Plain	25DF97	100
20mm	Full	Zinc Yellow	23LC61	100
	Full	Plain	25DF98	100
25mm	Full	Zinc Yellow	23LC62	100
	Full	Plain	25DF99	100
30mm	Full	Zinc Yellow	23LC63	100
	Full	Plain	25DG01	100
35mm	Full	Zinc Yellow	23LC64	100
	Full	Plain	25DG02	100
	Partial	Zinc Yellow	6AU14	25
40mm	Partial	Plain	25CY88	50
	Full	Plain	25DG03	50
	Partial	Zinc Yellow	6AU15	25
45mm	Partial	Plain	25CY89	50
	Partial	Zinc Yellow	23LC50	50
50mm	Partial	Plain	25CY90	50
	Full	Plain	25DG04	50
55mm	Partial	Plain	25CY91	50
60mm	Partial	Zinc Yellow	22TM20	50
	Partial	Plain	25CY92	50
	Full	Plain	25DG05	50
65mm	Partial	Plain	25CY93	50
70mm	Partial	Zinc Yellow	22TM21	50
	Partial	Plain	25CY94	50
	Full	Plain	25DG06	50
75mm	Partial	Plain	25CY95	50
80mm	Partial	Plain	25CY96	50
	Full	Plain	25DG07	50
90mm	Partial	Zinc Yellow	22TM22	50
	Partial	Plain	25CY97	50
	Partial	Zinc Yellow	22TM23	50
100mm	Partial	Plain	25CY98	50
	Full	Plain	25DG08	50
110mm	Partial	Zinc Yellow	22TM24	25
	Partial	Plain	25CY99	25
120mm	Partial	Zinc Yellow	22TM25	25
130mm	Partial	Plain	25CZ02	25
140mm	Partial	Plain	25CZ03	25
M10-1.25 Thread Size				
20mm	Full	Plain	25DJ87	100
25mm	Full	Plain	25DJ88	100
30mm	Full	Plain	25DJ89	100
35mm	Full	Plain	25DJ90	100
40mm	Full	Plain	25DJ91	50
45mm	Partial	Plain	25DJ06	50
50mm	Partial	Plain	25DJ07	50
60mm	Partial	Plain	25DJ08	50
70mm	Partial	Plain	25DJ09	50
80mm	Partial	Plain	25DJ10	50
90mm	Partial	Plain	25DJ11	50
100mm	Partial	Plain	25DJ12	50
M12-1.75 Thread Size				
16mm	Full	Plain	25DG09	50
20mm	Full	Zinc Yellow	22TN43	50
	Full	Plain	25DG10	50
25mm	Full	Zinc Yellow	23LC65	50
	Full	Plain	25DG11	50
30mm	Full	Zinc Yellow	23LC66	50
	Full	Plain	25DG12	50
35mm	Full	Zinc Yellow	23LC67	50
	Full	Plain	25DG13	50
40mm	Full	Zinc Yellow	22TN44	50
	Full	Plain	25DG14	50
	Partial	Zinc Yellow	6AU23	10
45mm	Partial	Plain	25CZ07	50
	Full	Plain	25DG15	50
	Partial	Zinc Yellow	6AU24	10
50mm	Partial	Zinc Yellow	23LC51	50
	Partial	Plain	25CZ08	50
	Full	Plain	25DG16	50
55mm	Partial	Plain	25CZ09	50
60mm	Partial	Zinc Yellow	23LC52	50
	Partial	Plain	25CZ10	50
	Full	Plain	25DG17	50
65mm	Partial	Plain	25CZ11	50
70mm	Partial	Zinc Yellow	22TM26	25
	Partial	Plain	25CZ12	25
	Full	Plain	25DG18	25
75mm	Partial	Plain	25CZ13	25
	Full	Plain	25DG19	25
80mm	Partial	Zinc Yellow	22TM27	25
	Partial	Plain	25CZ14	25
	Full	Plain	25DG20	25
90mm	Partial	Zinc Yellow	22TM28	25
100mm	Partial	Zinc Yellow	22TM29	25
	Full	Plain	25DG21	25
110mm	Partial	Zinc Yellow	22TM30	25
	Partial	Plain	25CZ17	25
	Partial	Zinc Yellow	22TM31	25
120mm	Partial	Plain	25CZ18	25
	Full	Plain	25DG22	25
130mm	Partial	Plain	25CZ19	25
140mm	Partial	Plain	25CZ20	25
150mm	Partial	Plain	25CZ21	25
M12-1.50 Thread Size				
20mm	Full	Plain	25DJ92	50
25mm	Full	Plain	25DJ93	50
30mm	Full	Plain	25DJ94	50
35mm	Full	Plain	25DJ95	50
40mm	Full	Plain	25DJ96	50
50mm	Partial	Plain	25DJ13	50
60mm	Partial	Plain	25DJ14	50
70mm	Partial	Plain	25DJ15	25
80mm	Partial	Plain	25DJ16	25
90mm	Partial	Plain	25DJ17	25
100mm	Partial	Plain	25DJ18	25
120mm	Partial	Plain	25DJ19	25
M14-2.00 Thread Size				
25mm	Full	Zinc Yellow	6AE95	25
30mm	Full	Zinc Yellow	22TN45	50
	Full	Plain	25DG23	50
35mm	Full	Zinc Yellow	23LC68	50
	Full	Plain	25DG24	50
40mm	Full	Zinc Yellow	23LC69	50
	Full	Plain	25DG25	50
45mm	Full	Zinc Yellow	22TN46	25
	Full	Plain	25DG26	25
50mm	Partial	Zinc Yellow	22TM32	25
	Full	Zinc Yellow	22TN47	25
	Full	Plain	25DG27	25
55mm	Partial	Plain	25CZ26	25
60mm	Partial	Zinc Yellow	22TM33	25
	Partial	Plain	25CZ27	25
	Full	Zinc Yellow	6AJ23	10
65mm	Partial	Plain	25CZ28	25
70mm	Partial	Zinc Yellow	22TM34	25
	Partial	Plain	25CZ29	25
80mm	Partial	Zinc Yellow	22TM35	25
	Partial	Plain	25CZ30	25
90mm	Partial	Zinc Yellow	22TM36	25
	Partial	Plain	25CZ31	25
100mm	Partial	Zinc Yellow	22TM37	25
	Full	Plain	25DG28	25
120mm	Partial	Plain	25CZ33	25
130mm	Partial	Plain	25CZ34	25
140mm	Partial	Plain	25CZ35	10
150mm	Partial	Plain	25CZ36	10
M14-1.50 Thread Size				
25mm	Full	Plain	25DJ97	50
30mm	Full	Plain	25DJ98	50
35mm	Full	Plain	25DJ99	50
40mm	Full	Plain	25DK01	50
50mm	Partial	Plain	25DJ20	25
	Full	Plain	25DK02	25
60mm	Partial	Plain	25DJ21	25
70mm	Partial	Plain	25DJ22	25
80mm	Partial	Plain	25DJ23	25
90mm	Partial	Plain	25DJ24	25
100mm	Partial	Plain	25DJ25	25
120mm	Partial	Plain	25DJ27	25
M16-2.00 Thread Size				
25mm	Full	Plain	25DG29	25
30mm	Full	Zinc Yellow	23LC70	25
35mm	Full	Zinc Yellow	23LC71	25
	Full	Plain	25DG31	25
40mm	Full	Zinc Yellow	23LC72	25
	Full	Plain	25DG32	25
45mm	Full	Zinc Yellow	23LC73	25
	Full	Plain	25DG33	25
50mm	Full	Zinc Yellow	23LC74	25
	Full	Plain	25DG34	25
	Partial	Zinc Yellow	6AU39	5
55mm	Partial	Plain	25CZ37	25
	Full	Zinc Yellow	6AJ48	10
60mm	Partial	Zinc Yellow	23LC53	25
	Partial	Plain	25CZ38	25
	Full	Plain	25DG36	25
65mm	Partial	Plain	25CZ39	10
70mm	Partial	Zinc Yellow	23LC54	10
	Partial	Plain	25CZ40	10
	Full	Plain	25DG37	10
75mm	Partial	Plain	25CZ41	10
80mm	Partial	Zinc Yellow	23LC55	10
	Partial	Plain	25CZ42	10
	Full	Plain	25DG38	10
90mm	Partial	Zinc Yellow	23LC56	10
	Partial	Plain	25CZ43	10
	Partial	Zinc Yellow	22TM38	10
100mm	Partial	Plain	25CZ44	10
	Full	Plain	25DG39	10
110mm	Partial	Zinc Yellow	22TM39	10
	Partial	Plain	25CZ45	10
120mm	Partial	Zinc Yellow	22TM40	10
	Partial	Plain	25CZ46	10
130mm	Partial	Plain	25CZ47	10
140mm	Partial	Plain	25CZ48	10
150mm	Partial	Plain	25CZ49	10
M16-1.50 Thread Size				
30mm	Full	Plain	25DK03	25
35mm	Full	Plain	25DK04	25
40mm	Full	Plain	25DK05	25
45mm	Full	Plain	25DK06	25
50mm	Partial	Plain	25DJ28	25
	Full	Plain	25DK07	25
55mm	Partial	Plain	25DJ29	25
60mm	Partial	Plain	25DJ30	25
65mm	Partial	Plain	25DJ31	10
70mm	Partial	Plain	25DJ32	10
80mm	Partial	Plain	25DJ33	10
90mm	Partial	Plain	25DJ34	10
100mm	Partial	Plain	25DJ35	10
110mm	Partial	Plain	25DJ36	10
140mm	Partial	Plain	25DJ38	10
M18-2.50 Thread Size				
30mm	Full	Plain	25DG40	25
35mm	Full	Plain	25DG41	25
40mm	Full	Plain	25DG42	25
45mm	Full	Plain	25DG43	25
50mm	Full	Plain	25DG44	25
60mm	Partial	Plain	25CZ56	10
	Full	Zinc Yellow	6AJ51	10
65mm	Partial	Plain	25CZ57	10
70mm	Partial	Plain	25CZ58	10
80mm	Partial	Plain	25CZ59	10
90mm	Partial	Plain	25CZ60	10
100mm	Partial	Zinc Yellow	22TM41	10
	Partial	Plain	25CZ61	10
120mm	Partial	Plain	25CZ63	10
M20-2.50 Thread Size				
30mm	Full	Plain	25DG45	10
40mm	Full	Zinc Yellow	22TN48	10
45mm	Full	Zinc Yellow	22TN49	10
	Full	Plain	25DG48	10
50mm	Full	Zinc Yellow	22TN50	10
	Full	Plain	25DG49	10
55mm	Full	Zinc Yellow	22TN51	10
	Full	Plain	25DG50	10
60mm	Full	Zinc Yellow	22TN52	10
	Full	Plain	25DG51	10
65mm	Partial	Plain	25CZ64	10
	Full	Zinc Yellow	6AJ68	5
70mm	Partial	Zinc Yellow	22TM42	10
	Full	Plain	25DG52	10
75mm	Partial	Plain	25CZ66	10
80mm	Partial	Zinc Yellow	22TM43	10
	Partial	Plain	25CZ67	10
90mm	Partial	Zinc Yellow	22TM44	10
	Partial	Plain	25CZ68	10
	Partial	Zinc Yellow	22TM45	10
100mm	Partial	Plain	25CZ69	10
	Full	Plain	25DG54	10
110mm	Partial	Zinc Yellow	22TM46	10
	Partial	Plain	25CZ70	10
	Partial	Zinc Yellow	22TM47	10
120mm	Partial	Plain	25CZ71	10
	Full	Plain	25DG55	10
130mm	Partial	Plain	25CZ72	10
140mm	Partial	Plain	25CZ73	10
150mm	Partial	Plain	25CZ74	10
M22-2.50 Thread Size				
50mm	Full	Plain	25DG56	10
60mm	Full	Plain	25DG57	10
70mm	Full	Plain	25DG58	10
75mm	Partial	Plain	25CZ82	10
80mm	Partial	Plain	25CZ83	10
100mm	Partial	Plain	25CZ85	5
M24-3.00 Thread Size				
40mm	Full	Zinc Yellow	6AJ70	1
50mm	Full	Zinc Yellow	22TN53	10
60mm	Full	Plain	25DG63	10
70mm	Full	Zinc Yellow	22TN54	10
	Full	Plain	25DG65	10
75mm	Partial	Plain	25CZ89	10
80mm	Full	Zinc Yellow	22TN55	10
	Partial	Plain	25CZ90	10
	Partial	Zinc Yellow	6AU54	1
	Partial	Zinc Yellow	22TM48	5
90mm	Partial	Plain	25CZ91	5
	Full	Plain	25DG66	5
100mm	Partial	Zinc Yellow	22TM49	5
	Full	Plain	25DG67	5
110mm	Partial	Zinc Yellow	22TM50	5
120mm	Partial	Zinc Yellow	22TM51	5
	Full	Plain	25DG68	5
140mm	Partial	Zinc Yellow	22TM53	5
	Partial	Plain	25CZ96	5
150mm	Partial	Plain	25CZ97	5
M24-2.00 Thread Size				
50mm	Full	Plain	25DK09	10
80mm	Partial	Plain	25DJ39	10
90mm	Partial	Plain	25DJ40	5
100mm	Partial	Plain	25DJ41	5
120mm	Partial	Plain	25DJ43	5
140mm	Partial	Plain	25DJ44	5
150mm	Partial	Plain	25DJ45	5
M27-3.00 Thread Size				
60mm	Full	Plain	25DG69	5
120mm	Partial	Plain	25DA07	5
140mm	Partial	Plain	25DA08	5
150mm	Partial	Plain	25DA09	5
M30-3.50 Thread Size				
80mm	Full	Plain	25DG74	5
	Full	Zinc Yellow	5ZY45	1
90mm	Full	Zinc Yellow	5ZY46	1
100mm	Full	Zinc Yellow	5ZY47	1
110mm	Partial	Plain	25DA14	5
120mm	Partial	Plain	25DA15	5
130mm	Partial	Plain	25DA16	5
140mm	Partial	Plain	25DA17	5
150mm	Partial	Plain	25DA18	5
M36-4.00 Thread Size				
140mm	Partial	Plain	25DA37	5
150mm	Partial	Plain	25DA38	5

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."



Metric Stainless Steel Hex Head Cap Screws

Fully threaded screws meet DIN 933; partially threaded meet DIN 931 standard.

Length	Thread Style	Pkg. Qty.	A2 Stainless Steel Item No.	A4 Stainless Steel Item No.
M3-0.50 Thread Size				
6mm	Full	50	22TA59	6BA93
8mm	Full	50	22TA64	6BA94
10mm	Full	50	22TA65	6BA95
16mm	Full	50	22TA67	6BA96
20mm	Full	50	22TD72	6BA97
25mm	Full	50	22TD77	—
30mm	Full	50	6BB84	—
35mm	Full	50	—	6BB85
40mm	Full	50	6BB86	—
M4-0.70 Thread Size				
8mm	Full	50	22TD79	6BA98
10mm	Full	50	22TD80	6BA99
12mm	Full	50	22TE05	6BB10
16mm	Full	50	22TE18	6BB11
20mm	Full	50	22TE19	6BB12
25mm	Full	50	22TE20	6BB13
30mm	Full	50	22TE21	22TP20
35mm	Full	50	22TE22	25DH09
40mm	Full	50	22TE28	25DH10
45mm	Full	50	6BB97	—
50mm	Full	50	22TN58	—
M5-0.80 Thread Size				
6mm	Full	50	22TE29	—
8mm	Full	50	22TE30	25DH11
10mm	Full	50	22TE35	6BB15
12mm	Full	50	22TE36	6BB16
16mm	Full	50	22TE37	6BB17
20mm	Full	50	22TE38	6BB18
25mm	Full	50	22TE39	6BB19
30mm	Full	50	22TE40	22TP21
35mm	Full	50	22TE43	22TP22
40mm	Full	50	22TE44	22TP23
	Partial	50	25DA51	25DC16
45mm	Partial	50	25DA52	25DC17
	Full	50	6BE19	—
50mm	Partial	50	25DA53	25DC18
	Full	50	6BE20	—
60mm	Partial	50	25DA54	25DC19
	Full	50	6BE21	—
70mm	Full	10	6BE22	—
M6-1.00 Thread Size				
8mm	Full	50	22TE45	25DH12
10mm	Full	50	22TE46	6BB23
12mm	Full	50	22TF76	6BB24
14mm	Full	50	—	25DH13
16mm	Full	50	22TF95	6BB25
20mm	Full	50	22TG06	6BB26
25mm	Full	50	22TG07	6BB27
30mm	Full	50	22TG14	23LC75
35mm	Full	50	22TG15	22TP24
40mm	Full	50	22TN62	22TP25
45mm	Full	50	22TN63	22TP26
	Partial	50	25DA55	25DC20
50mm	Full	50	22TN64	22TP27
	Partial	50	25DA56	25DC21
55mm	Full	50	22TN65	—
	Partial	50	—	25DC22
60mm	Full	50	22TN66	22TP28
	Partial	50	25DA58	25DC23
65mm	Partial	50	25DA59	25DC24
70mm	Partial	50	22TM54	—
	Full	50	—	22TP29
80mm	Partial	50	22TM55	25DC26
90mm	Partial	25	6BE91	25DC27
100mm	Partial	25	22TM57	—
110mm	Partial	25	25DA60	—
120mm	Partial	25	25DA61	—
140mm	Partial	10	25DA62	—
M8-1.25 Thread Size				
10mm	Full	50	22TN67	25DH14
12mm	Full	50	22TN68	22TP30
16mm	Full	50	22TN69	22TP31
18mm	Full	50	22TN70	—
20mm	Full	50	22TN71	22TP32
22mm	Full	50	22TN72	—
25mm	Full	50	22TN73	23LC76
30mm	Full	50	22TN74	22TP33
35mm	Full	50	22TN75	22TP34
40mm	Full	50	22TN76	22TP35
45mm	Full	50	22TN77	22TP36
50mm	Full	50	22TN78	22TP37
	Partial	50	25DA64	25DC29
55mm	Full	50	22TN79	—
	Partial	50	—	25DC30
60mm	Full	50	22TN80	23LC77
	Partial	50	25DA66	—
65mm	Full	50	22TN81	25DH15
	Partial	50	—	25DC32
70mm	Partial	50	22TM58	25DC33
	Full	50	25DG82	22TP38
75mm	Partial	50	25DA67	—
80mm	Partial	50	22TM59	25DC34
	Full	50	25DG83	22TP39
90mm	Partial	25	22TM60	—
	Full	25	—	22TP40
100mm	Partial	25	22TM61	25DC36
	Full	25	25DG84	22TP41
110mm	Partial	25	22TM62	—
120mm	Partial	25	22TM63	25DC37
130mm	Partial	25	22TM64	—
150mm	Partial	10	25DA68	—
M10-1.50 Thread Size				
12mm	Full	50	22TN82	—
16mm	Full	50	22TN83	25DH16
20mm	Full	50	22TN84	22TP42
25mm	Full	50	22TN85	23LC78
30mm	Full	50	22TN86	22TP43
35mm	Full	50	22TN87	22TP44
40mm	Full	25	22TN88	22TP45
45mm	Full	25	22TN89	22TP46
	Partial	25	—	25DC38
50mm	Full	25	22TN90	22TP47
	Partial	25	25DA69	25DC39
55mm	Full	25	22TN91	—
	Partial	25	25DA70	25DC40
60mm	Full	25	22TN92	22TP48
	Partial	25	25DA71	25DC41
65mm	Full	25	22TN93	—
	Partial	25	25DA72	25DC42
70mm	Partial	25	22TM65	25DC43
75mm	Partial	25	25DA73	25DC44
80mm	Partial	25	22TM66	25DC45
	Full	25	25DG85	22TP49
90mm	Partial	25	22TM67	25DC46
	Full	25	—	22TP50
100mm	Partial	25	22TM68	25DC47
	Full	25	25DG86	22TP51
110mm	Partial	10	25DA74	25DC48
120mm	Partial	10	22TM69	25DC49
130mm	Partial	10	22TM70	—
140mm	Partial	10	25DA75	—
150mm	Partial	10	25DA76	—
M12-1.75 Thread Size				
16mm	Full	25	22TN94	—
20mm	Full	25	22TN95	25DH18
25mm	Full	25	22TN96	25DH19
30mm	Full	25	22TN97	22TP52
35mm	Full	25	22TN98	22TP53
40mm	Full	25	22TN99	22TP54
45mm	Full	25	22TP01	25DH20
50mm	Full	25	22TP02	22TP55
	Partial	25	25DA77	25DC51
55mm	Full	25	22TP03	—
	Partial	25	—	25DC52
60mm	Full	25	22TP04	22TP56
	Partial	25	25DA79	25DC53
65mm	Partial	10	25DA80	25DC54
	Full	10	—	25DH21
70mm	Partial	10	22TM71	25DC55
75mm	Partial	10	25DA81	—
80mm	Partial	10	22TM72	25DC57
	Full	10	25DG87	22TP57
90mm	Partial	10	22TM73	—
	Full	10	—	22TP58
100mm	Partial	10	22TM74	25DC59
	Full	10	25DG88	22TP59
110mm	Partial	10	22TM75	25DC60
120mm	Partial	10	22TM76	25DC61
130mm	Partial	10	22TM77	—
140mm	Partial	10	25DA82	—
150mm	Partial	10	25DA83	—
M14-2.00 Thread Size				
20mm	Full	25	—	22TP60
25mm	Full	25	25DG89	25DH22
30mm	Full	25	22TP05	25DH23
35mm	Full	25	22TP06	25DH24
40mm	Full	25	22TP07	25DH25
50mm	Full	10	22TP08	25DH26
	Partial	10	25DA85	—
60mm	Partial	10	22TM78	—
	Full	10	—	25DH27
65mm	Full	10	—	25DH28
70mm	Partial	10	22TM79	—
	Full	10	—	25DH29
80mm	Partial	10	22TM80	25DC64
	Full	10	—	25DH30
90mm	Partial	10	25DA86	25DC65
100mm	Partial	10	25DA87	25DC66
M16-2.00 Thread Size				
25mm	Full	10	22TP09	22TP61
30mm	Full	10	22TP10	22TP62
35mm	Full	10	22TP11	22TP63
40mm	Full	10	22TP12	22TP64
45mm	Full	10	22TP13	25DH31
50mm	Full	10	22TP14	22TP65
55mm	Partial	10	22TM81	—
	Full	10	25DG92	25DH32
60mm	Partial	10	22TM82	25DC70
	Full	10	25DG93	22TP66
65mm	Partial	5	25DA88	—
	Full	5	—	25DH33
70mm	Partial	5	6BU28	25DC72
	Full	5	25DG94	25DH34
75mm	Partial	5	25DA89	25DC73
80mm	Full	5	25DG95	22TP67
	Partial	5	6BU29	—
90mm	Full	5	25DG96	22TP68
	Partial	5	6BU30	25DC75
100mm	Partial	5	22TM86	25DC76
	Full	5	25DG97	22TP69
110mm	Partial	5	25DA90	—
120mm	Partial	5	22TM87	25DC77
130mm	Partial	5	22TM88	—
M18-2.50 Thread Size				
40mm	Full	10	—	25DH35
50mm	Full	10	—	25DH36
60mm	Full	5	—	25DH37
70mm	Partial	5	—	25DC81
	Full	5	—	25DH38
80mm	Full	5	—	25DH39
90mm	Full	5	—	25DH40
M20-2.50 Thread Size				
30mm	Full	5	22TP15	25DH42
35mm	Full	5	22TP16	—
40mm	Full	5	22TP17	25DH43
45mm	Full	5	22TP18	25DH44
50mm	Full	5	22TP19	25DH45
55mm	Full	5	—	25DH46
60mm	Full	5	25DG99	25DH47
65mm	Partial	5	25DA96	25DC82
70mm	Partial	5	22TM89	—
75mm	Partial	5	25DA97	25DC84
80mm	Partial	5	22TM90	—
	Full	5	—	25DH49
90mm	Partial	5	22TM91	—
	Full	5	—	25DH50
100mm	Partial	5	22TM92	25DC87
	Full	5	25DH03	—
120mm	Partial	5	22TM93	—
140mm	Partial	5	22TM94	—
M24-3.00 Thread Size				
60mm	Full	5	—	25DH53
70mm	Full	5	—	25DH54
80mm	Full	5	—	25DH55



REGISTER NOW! ENJOY THESE FEATURES & MORE!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

Sign in or register on Grainger.com® today!

FOREVER-BOLT®

NL-19SM Hex Head Cap Screws

Proprietary metal treatment produces a brighter finish, increased strength, and superior corrosion resistance.



Length	Thread Style	Material	Item No.	Pkg. Qty.
¼"-20 Thread Size				
⅜"	Full	18-8 (304) Stainless Steel	**36RG04**	100
½"	Full	18-8 (304) Stainless Steel	**36RG05**	50
½"	Full	18-8 (304) Stainless Steel	**36RG06**	100
½"	Full	316 Stainless Steel	**36RG07**	25
½"	Full	316 Stainless Steel	**36RG08**	100
⅝"	Full	18-8 (304) Stainless Steel	**36RG09**	50
¾"	Full	18-8 (304) Stainless Steel	**36RG10**	50
¾"	Full	18-8 (304) Stainless Steel	**36RG11**	100
¾"	Full	316 Stainless Steel	**36RG12**	25
¾"	Full	316 Stainless Steel	**36RG13**	100
1"	Full	18-8 (304) Stainless Steel	**36RG14**	50
1"	Full	18-8 (304) Stainless Steel	**36RG15**	100
1"	Full	316 Stainless Steel	**36RG16**	25
1"	Full	316 Stainless Steel	**36RG17**	100
1¼"	Partial	18-8 (304) Stainless Steel	**36RG18**	50
1¼"	Partial	18-8 (304) Stainless Steel	**36RG19**	100
1¼"	Full	18-8 (304) Stainless Steel	**36RG20**	100
1¼"	Partial	316 Stainless Steel	**36RG21**	25
1½"	Partial	18-8 (304) Stainless Steel	**36RG22**	50
1½"	Partial	18-8 (304) Stainless Steel	**36RG23**	100
1½"	Full	316 Stainless Steel	**36RG24**	10
1½"	Partial	316 Stainless Steel	**36RG25**	25
2"	Partial	18-8 (304) Stainless Steel	**36RG26**	25
2"	Full	18-8 (304) Stainless Steel	**36RG27**	50
2"	Partial	316 Stainless Steel	**36RG28**	10
2"	Partial	316 Stainless Steel	**36RG29**	25
2½"	Partial	18-8 (304) Stainless Steel	**36RG30**	25
3"	Partial	18-8 (304) Stainless Steel	**36RG31**	25
3"	Partial	316 Stainless Steel	**36RG32**	10
5/16"-18 Thread Size				
½"	Full	18-8 (304) Stainless Steel	**36RG33**	50
¾"	Full	18-8 (304) Stainless Steel	**36RG34**	50
¾"	Full	18-8 (304) Stainless Steel	**36RG35**	100
¾"	Full	316 Stainless Steel	**36RG36**	10
¾"	Full	316 Stainless Steel	**36RG37**	25
1"	Full	18-8 (304) Stainless Steel	**36RG38**	25
1"	Full	18-8 (304) Stainless Steel	**36RG39**	50
1"	Full	18-8 (304) Stainless Steel	**36RG40**	100
1"	Full	316 Stainless Steel	**36RG41**	10
1"	Full	316 Stainless Steel	**36RG42**	25
1¼"	Full	18-8 (304) Stainless Steel	**36RG43**	25
1¼"	Full	18-8 (304) Stainless Steel	**36RG44**	50
1¼"	Full	316 Stainless Steel	**36RG45**	10
1¼"	Full	316 Stainless Steel	**36RG46**	25
1½"	Partial	18-8 (304) Stainless Steel	**36RG47**	25
1½"	Partial	18-8 (304) Stainless Steel	**36RG48**	50
1½"	Full	18-8 (304) Stainless Steel	**36RG49**	50
1½"	Partial	316 Stainless Steel	**36RG50**	10
1¾"	Partial	18-8 (304) Stainless Steel	**36RG51**	25
2"	Full	18-8 (304) Stainless Steel	**36RG52**	25
2"	Partial	18-8 (304) Stainless Steel	**36RG53**	25
2"	Partial	316 Stainless Steel	**36RG54**	5
2"	Partial	316 Stainless Steel	**36RG55**	25
2¼"	Partial	18-8 (304) Stainless Steel	**36RG56**	10
2½"	Partial	18-8 (304) Stainless Steel	**36RG57**	10
2½"	Partial	18-8 (304) Stainless Steel	**36RG58**	25
2½"	Full	18-8 (304) Stainless Steel	**36RG59**	25
2½"	Partial	316 Stainless Steel	**36RG60**	5
2½"	Partial	316 Stainless Steel	**36RG61**	10
3"	Partial	18-8 (304) Stainless Steel	**36RG62**	10
3"	Full	18-8 (304) Stainless Steel	**36RG63**	25
4"	Partial	18-8 (304) Stainless Steel	**36RG64**	10
⅜"-16 Thread Size				
½"	Full	18-8 (304) Stainless Steel	**36RG65**	25
¾"	Full	18-8 (304) Stainless Steel	**36RG66**	25
¾"	Full	18-8 (304) Stainless Steel	**36RG67**	50
¾"	Full	316 Stainless Steel	**36RG68**	10
¾"	Full	316 Stainless Steel	**36RG69**	25
⅞"	Full	316 Stainless Steel	**36RG70**	10
1"	Full	18-8 (304) Stainless Steel	**36RG71**	25
1"	Full	18-8 (304) Stainless Steel	**36RG72**	50
1"	Full	316 Stainless Steel	**36RG73**	10
1"	Full	316 Stainless Steel	**36RG74**	25
1¼"	Full	18-8 (304) Stainless Steel	**36RG75**	25
1¼"	Full	18-8 (304) Stainless Steel	**36RG76**	50
1¼"	Full	316 Stainless Steel	**36RG77**	10
1¼"	Full	316 Stainless Steel	**36RG78**	25
1½"	Partial	18-8 (304) Stainless Steel	**36RG79**	10
1½"	Partial	18-8 (304) Stainless Steel	**36RG80**	25

Length	Thread Style	Material	Item No.	Pkg. Qty.
1½"	Partial	316 Stainless Steel	**36RG81**	10
1½"	Partial	316 Stainless Steel	**36RG82**	25
1¾"	Partial	18-8 (304) Stainless Steel	**36RG83**	10
1¾"	Partial	18-8 (304) Stainless Steel	**36RG84**	25
1¾"	Full	18-8 (304) Stainless Steel	**36RG85**	25
1¾"	Partial	316 Stainless Steel	**36RG86**	5
1¾"	Partial	316 Stainless Steel	**36RG87**	10
2"	Partial	18-8 (304) Stainless Steel	**36RG88**	10
2"	Partial	18-8 (304) Stainless Steel	**36RG89**	25
2"	Full	18-8 (304) Stainless Steel	**36RG90**	25
2"	Partial	316 Stainless Steel	**36RG91**	5
2"	Partial	316 Stainless Steel	**36RG92**	10
2¼"	Partial	18-8 (304) Stainless Steel	**36RG93**	10
2½"	Partial	18-8 (304) Stainless Steel	**36RG94**	10
2½"	Partial	18-8 (304) Stainless Steel	**36RG95**	25
2½"	Full	18-8 (304) Stainless Steel	**36RG96**	25
2½"	Partial	316 Stainless Steel	**36RG97**	5
2½"	Partial	316 Stainless Steel	**36RG98**	10
3"	Partial	18-8 (304) Stainless Steel	**36RG99**	10
3"	Full	18-8 (304) Stainless Steel	**36RH01**	25
3"	Partial	316 Stainless Steel	**36RH02**	5
3"	Partial	316 Stainless Steel	**36RH03**	10
3½"	Partial	18-8 (304) Stainless Steel	**36RH04**	10
3½"	Full	18-8 (304) Stainless Steel	**36RH05**	10
3½"	Partial	316 Stainless Steel	**36RH06**	5
4"	Partial	18-8 (304) Stainless Steel	**36RH07**	5
4"	Partial	18-8 (304) Stainless Steel	**36RH08**	10
5"	Partial	18-8 (304) Stainless Steel	**36RH09**	5
7/16"-14 Thread Size				
1"	Full	316 Stainless Steel	**36RH10**	5
1"	Full	316 Stainless Steel	**36RH11**	10
1½"	Full	18-8 (304) Stainless Steel	**36RH12**	10
2"	Partial	18-8 (304) Stainless Steel	**36RH13**	5
2"	Partial	18-8 (304) Stainless Steel	**36RH14**	10
½"-13 Thread Size				
¾"	Full	18-8 (304) Stainless Steel	**36RH15**	10
1"	Full	18-8 (304) Stainless Steel	**36RH16**	10
1"	Full	316 Stainless Steel	**36RH17**	5
1"	Full	316 Stainless Steel	**36RH18**	10
1¼"	Full	18-8 (304) Stainless Steel	**36RH19**	10
1¼"	Full	18-8 (304) Stainless Steel	**36RH20**	25
1¼"	Full	316 Stainless Steel	**36RH21**	5
1¼"	Full	316 Stainless Steel	**36RH22**	10
1½"	Full	18-8 (304) Stainless Steel	**36RH23**	10
1½"	Full	18-8 (304) Stainless Steel	**36RH24**	25
1½"	Full	316 Stainless Steel	**36RH25**	5
1½"	Full	316 Stainless Steel	**36RH26**	10
1¾"	Full	18-8 (304) Stainless Steel	**36RH27**	5
1¾"	Full	18-8 (304) Stainless Steel	**36RH28**	10
1¾"	Full	316 Stainless Steel	**36RH29**	5
2"	Partial	18-8 (304) Stainless Steel	**36RH30**	5
2"	Partial	18-8 (304) Stainless Steel	**36RH31**	10
2"	Full	18-8 (304) Stainless Steel	**36RH32**	10
2"	Partial	316 Stainless Steel	**36RH33**	5
2¼"	Partial	18-8 (304) Stainless Steel	**36RH34**	5
2¼"	Partial	18-8 (304) Stainless Steel	**36RH35**	10
2¼"	Partial	316 Stainless Steel	**36RH36**	5
2½"	Partial	18-8 (304) Stainless Steel	**36RH37**	5
2½"	Partial	18-8 (304) Stainless Steel	**36RH38**	10
2½"	Partial	316 Stainless Steel	**36RH39**	5
3"	Partial	18-8 (304) Stainless Steel	**36RH40**	5
3"	Partial	18-8 (304) Stainless Steel	**36RH41**	10
3"	Full	18-8 (304) Stainless Steel	**36RH42**	10
3"	Partial	316 Stainless Steel	**36RH43**	5
3½"	Partial	18-8 (304) Stainless Steel	**36RH44**	5
3½"	Partial	316 Stainless Steel	**36RH45**	5
4"	Partial	18-8 (304) Stainless Steel	**36RH46**	5
4"	Full	18-8 (304) Stainless Steel	**36RH47**	10
4"	Partial	316 Stainless Steel	**36RH48**	5
6"	Partial	18-8 (304) Stainless Steel	**36RH49**	1
5/8"-11 Thread Size				
1½"	Full	18-8 (304) Stainless Steel	**36RH50**	5
1½"	Full	18-8 (304) Stainless Steel	**36RH51**	10
1½"	Full	316 Stainless Steel	**36RH52**	5
1¾"	Full	18-8 (304) Stainless Steel	**36RH53**	5
2"	Full	18-8 (304) Stainless Steel	**36RH54**	5
2"	Full	316 Stainless Steel	**36RH55**	5
2¼"	Partial	18-8 (304) Stainless Steel	**36RH56**	5
2½"	Full	18-8 (304) Stainless Steel	**36RH57**	5
2½"	Partial	316 Stainless Steel	**36RH58**	5

Length	Thread Style	Material	Item No.	Pkg. Qty.
2¾"	Partial	18-8 (304) Stainless Steel	**36RH59**	5
2¾"	Partial	316 Stainless Steel	**36RH60**	5
3"	Partial	18-8 (304) Stainless Steel	**36RH61**	5
3"	Partial	316 Stainless Steel	**36RH62**	5
3½"	Partial	18-8 (304) Stainless Steel	**36RH63**	5
3½"	Partial	316 Stainless Steel	**36RH64**	5
4"	Partial	18-8 (304) Stainless Steel	**36RH65**	5
6"	Partial	316 Stainless Steel	**36RH66**	1
¾"-10 Thread Size				
1½"	Full	18-8 (304) Stainless Steel	**36RH67**	5
2"	Full	18-8 (304) Stainless Steel	**36RH68**	5
2"	Full	316 Stainless Steel	**36RH69**	5
2½"	Full	18-8 (304) Stainless Steel	**36RH70**	5
2½"	Full	316 Stainless Steel	**36RH71**	1
2½"	Full	316 Stainless Steel	**36RH72**	5
3"	Partial	18-8 (304) Stainless Steel	**36RH73**	5
3"	Partial	316 Stainless Steel	**36RH74**	1
3¼"	Partial	316 Stainless Steel	**36RH75**	1
3½"	Partial	18-8 (304) Stainless Steel	**36RH76**	5
3½"	Partial	316 Stainless Steel	**36RH77**	1
4"	Partial	18-8 (304) Stainless Steel	**36RH78**	5
4"	Partial	316 Stainless Steel	**36RH79**	1
4½"	Partial	18-8 (304) Stainless Steel	**36RH80**	1
5"	Partial	18-8 (304) Stainless Steel	**36RH81**	1
5"	Partial	18-8 (304) Stainless Steel	**36RH82**	5
5"	Partial	316 Stainless Steel	**36RH83**	1
⅞"-9 Thread Size				
2"	Full	18-8 (304) Stainless Steel	**36RH84**	1
2"	Full	316 Stainless Steel	**36RH85**	1
2½"	Full	18-8 (304) Stainless Steel	**36RH86**	1
3"	Full	18-8 (304) Stainless Steel	**36RH87**	1
4"	Partial	18-8 (304) Stainless Steel	**36RH88**	1
4"	Partial	316 Stainless Steel	**36RH89**	1
1"-8 Thread Size				
2½"	Full	18-8 (304) Stainless Steel	**36RH90**	1
2½"	Full	316 Stainless Steel	**36RH91**	1
M6-1.00 Thread Size				
12mm	Full	A2 Stainless Steel	**36RH92**	100
16mm	Full	A2 Stainless Steel	**36RH93**	100
20mm	Full	A2 Stainless Steel	**36RH94**	100
20mm	Full	A4 Stainless Steel	**36RH95**	50
25mm	Full	A2 Stainless Steel	**36RH96**	100
40mm	Full	A2 Stainless Steel	**36RH97**	25
50mm	Full	A2 Stainless Steel	**36RH98**	25
60mm	Full	A2 Stainless Steel	**36RH99**	25
M8-1.25 Thread Size				
16mm	Full	A2 Stainless Steel	**36RJ01**	25
20mm	Full	A2 Stainless Steel	**36RJ02**	25
20mm	Full	A4 Stainless Steel	**36RJ03**	25
25mm	Full	A2 Stainless Steel	**36RJ04**	25
30mm	Full	A2 Stainless Steel	**36RJ05**	25
35mm	Full	A2 Stainless Steel	**36RJ06**	25
40mm	Full	A2 Stainless Steel	**36RJ07**	10
40mm	Full	A4 Stainless Steel	**36RJ08**	10
50mm	Full	A2 Stainless Steel	**36RJ09**	10
60mm	Full	A2 Stainless Steel	**36RJ10**	10
M10-1.50 Thread Size				
16mm	Full	A2 Stainless Steel	**36RJ11**	10
20mm	Full	A2 Stainless Steel	**36RJ12**	10
25mm	Full	A2 Stainless Steel	**36RJ13**	10
30mm	Full	A2 Stainless Steel	**36RJ14**	10
30mm	Full	A4 Stainless Steel	**36RJ15**	10
35mm	Full	A2 Stainless Steel	**36RJ16**	10
40mm	Full	A2 Stainless Steel	**36RJ17**	10
40mm	Full	A4 Stainless Steel	**36RJ18**	10
50mm	Full	A2 Stainless Steel	**36RJ19**	10
M12-1.75 Thread Size				
25mm	Full	A2 Stainless Steel	**36RJ20**	10
30mm	Full	A2 Stainless Steel	**36RJ21**	10
35mm	Full	A2 Stainless Steel	**36RJ22**	10
40mm	Full	A2 Stainless Steel	**36RJ23**	10
50mm	Full	A2 Stainless Steel	**36RJ24**	10
60mm	Full	A2 Stainless Steel	**36RJ25**	10
M16-2.00 Thread Size				
50mm	Full	A4 Stainless Steel	**36RJ26**	1
60mm	Full	A4 Stainless Steel	**36RJ27**	1
80mm	Full	A4 Stainless Steel	**36RJ28**	1
100mm	Full	A4 Stainless Steel	**36RJ29**	1
M20-2.50 Thread Size				
50mm	Full	A2 Stainless Steel	**36RJ30**	1

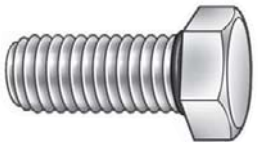
APM HEXSEAL®

18-8 Stainless Steel Self-Sealing Hex Head Cap Screws

Reusable silicone O-ring. RoHS compliant.

Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	**5NA28**	5
¾"	**5NA36**	5
1"	**5NA38**	5
5/16"-18 Thread Size		
¾"	**5NA48**	5
1"	**5NA50**	5

Length	Item No.	Pkg. Qty.
⅜"-16 Thread Size		
¾"	**5NA62**	5
1"	**5NA64**	5
½"-13 Thread Size		
1"	**5NA76**	5



Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."





Grade A Low-Carbon Steel Hex Bolts

- Tensile strength: 60,000 psi

Use with Grade A/Grade 2 nuts. Comparable to metric Property Class 4.6. Threads are right-hand, Class 2A. Meet ASTM A307 and ASME B18.2.1 standards, , except Nos. 2BA81, 2BA83, and 2BA85 are ASTM A307 only.

Length under Head	Thread Style	Finish	Item No.	Pkg. Qty.
¼"-20 Thread Size				
⅝"	Full	Zinc Plated	**2BA73**	100
1"	Partial	Galvanized	**2BY86**	100
1¼"	Full	Zinc-Plated	**2BA81**	100
1½"	Partial	Galvanized	**2BY88**	100
	Full	Zinc-Plated	**2BA83**	100
1¾"	Partial	Zinc Plated	**2BB85**	100
	Full	Zinc-Plated	**2BA85**	100
2"	Partial	Zinc Plated	**2BB87**	100
	Partial	Galvanized	**2BY90**	100
2¼"	Partial	Zinc Plated	**2BB89**	100
2½"	Partial	Zinc Plated	**2BB91**	100
2¾"	Partial	Zinc Plated	**2BB93**	100
3"	Partial	Zinc Plated	**2BB95**	100
	Partial	Galvanized	**2BY92**	100
3½"	Partial	Zinc Plated	**2BB97**	100
4"	Partial	Zinc Plated	**2BB99**	100
4½"	Partial	Zinc Plated	**2BE11**	100
5"	Partial	Zinc Plated	**2BE13**	100
5½"	Partial	Zinc Plated	**2BE15**	100
6"	Partial	Zinc Plated	**2BE17**	100
5⁄16"-18 Thread Size				
½"	Full	Zinc Plated	**2BB20**	100
⅝"	Full	Zinc Plated	**2BB22**	100
⅞"	Full	Zinc Plated	**2BB26**	100
1¼"	Full	Zinc Plated	**2BB30**	100
1¾"	Partial	Zinc Plated	**2BE25**	100
2¼"	Partial	Zinc Plated	**2BE29**	100
2¾"	Partial	Zinc Plated	**2BE33**	100
4"	Partial	Zinc Plated	**2BE39**	50
4½"	Partial	Zinc Plated	**2BE41**	50
5"	Partial	Zinc Plated	**2BE43**	50
5½"	Partial	Zinc Plated	**2BE45**	50
6"	Partial	Zinc Plated	**2BE47**	50
⅜"-16 Thread Size				
½"	Full	Zinc Plated	**2BB32**	100
⅝"	Full	Zinc Plated	**2BB34**	100
1"	Full	Galvanized	**2BY94**	100
1½"	Partial	Galvanized	**2BY97**	100
1¾"	Partial	Zinc Plated	**2BE58**	100
2"	Partial	Galvanized	**2BY99**	100

Length under Head	Thread Style	Finish	Item No.	Pkg. Qty.
2¼"	Partial	Zinc Plated	**2BE62**	50
2½"	Partial	Galvanized	**2CA11**	50
2¾"	Partial	Zinc Plated	**2BE66**	50
3"	Partial	Galvanized	**2CA14**	50
3¼"	Partial	Zinc Plated	**2BE70**	50
4"	Partial	Galvanized	**2CA17**	50
4½"	Partial	Zinc Plated	**2BE76**	50
5"	Partial	Zinc Plated	**2BE78**	50
	Partial	Galvanized	**2CA20**	50
5½"	Partial	Zinc Plated	**2BE80**	50
6"	Partial	Zinc Plated	**2BE82**	50
7⁄16"-14 Thread Size				
1"	Full	Zinc Plated	**2BB40**	100
1¼"	Partial	Zinc Plated	**2BB42**	50
1½"	Partial	Zinc Plated	**2BB44**	50
1¾"	Partial	Zinc Plated	**2BU10**	50
2"	Partial	Zinc Plated	**2BU12**	50
2½"	Partial	Zinc Plated	**2BU14**	50
3"	Partial	Zinc Plated	**2BU17**	50
3½"	Partial	Zinc Plated	**2BU21**	25
4"	Partial	Zinc Plated	**2BU25**	25
4½"	Partial	Zinc Plated	**2BU29**	25
5"	Partial	Zinc Plated	**2BU33**	25
6"	Partial	Zinc Plated	**2BU37**	25
½"-13 Thread Size				
¾"	Full	Zinc Plated	**2BB46**	50
1¼"	Full	Zinc Plated	**2BB50**	50
	Full	Galvanized	**2CA23**	50
1½"	Partial	Galvanized	**2CA26**	50
2"	Partial	Galvanized	**2CA29**	50
2¼"	Partial	Zinc Plated	**2BU44**	50
2¾"	Partial	Zinc Plated	**2BU50**	50
3"	Partial	Galvanized	**2CA32**	50
3¼"	Partial	Zinc Plated	**2BU56**	25
3½"	Partial	Zinc Plated	**2BU59**	25
4"	Partial	Galvanized	**2CA35**	25
4½"	Partial	Zinc Plated	**2BU63**	25
5"	Partial	Galvanized	**2CA37**	25
5½"	Partial	Zinc Plated	**2BU67**	25
6"	Partial	Zinc Plated	**2BU69**	25
	Partial	Galvanized	**2CA39**	25

Length under Head	Thread Style	Finish	Item No.	Pkg. Qty.
⅝"-11 Thread Size				
1"	Full	Zinc Plated	**2BB56**	25
1½"	Full	Zinc Plated	**2BB60**	25
1¾"	Full	Zinc Plated	**2BB62**	25
2"	Partial	Galvanized	**2CA40**	25
2¼"	Partial	Zinc Plated	**2BU85**	25
3"	Partial	Galvanized	**2CA42**	25
3¼"	Partial	Zinc Plated	**2BU91**	25
3½"	Partial	Zinc Plated	**2BU93**	25
4"	Partial	Zinc Plated	**2BU95**	25
	Partial	Galvanized	**2CA44**	25
4½"	Partial	Zinc Plated	**2BU97**	25
5"	Partial	Zinc Plated	**2BU99**	25
5½"	Partial	Zinc Plated	**2BY11**	25
6"	Partial	Zinc Plated	**2BY13**	25
¾"-10 Thread Size				
1"	Full	Zinc Plated	**2BB64**	20
1¼"	Full	Zinc Plated	**2BB66**	20
1½"	Full	Zinc Plated	**2BB68**	20
1¾"	Full	Zinc Plated	**2BB70**	20
2"	Partial	Zinc Plated	**2BB72**	20
3"	Partial	Zinc Plated	**2BY29**	20
3½"	Partial	Zinc Plated	**2BY31**	20
4"	Partial	Zinc Plated	**2BY33**	20
4½"	Partial	Zinc Plated	**2BY35**	20
5"	Partial	Zinc Plated	**2BY37**	20
5½"	Partial	Zinc Plated	**2BY39**	20
6"	Partial	Zinc Plated	**2BY41**	20
⅞"-9 Thread Size				
3"	Partial	Zinc Plated	**2BY59**	10
4"	Partial	Zinc Plated	**2BY61**	10
4½"	Partial	Zinc Plated	**2BY63**	10
5"	Partial	Zinc Plated	**2BY65**	10
1"-8 Thread Size				
2"	Full	Zinc Plated	**2BB76**	10
2½"	Partial	Zinc Plated	**2BB78**	10
3½"	Partial	Zinc Plated	**2BY73**	10
4"	Partial	Zinc Plated	**2BY75**	10
5"	Partial	Zinc Plated	**2BY77**	10
6"	Partial	Zinc Plated	**2BY79**	10



PEEK Hex Head Cap Screws

- Tensile Strength: 26,800 psi
- Pkg. of 10

Fully Threaded. Threads are right handed. Meet ANSI/ASME B18.6.3 standards. See Grainger.com® for metric sizes.

Fastener Length	Fastener Thread Type	Fastener Finish	Item No.
#6-32 Dia./Thread Size			
¼"	UNC (Coarse)	Anodized	**446V57**
⅜"	UNC (Coarse)	Anodized	**446V58**
½"	UNC (Coarse)	Anodized	**446V59**
⅝"	UNC (Coarse)	Anodized	**446V60**
¾"	UNC (Coarse)	Anodized	**446V61**
⅞"	UNC (Coarse)	Anodized	**446V62**
1"	UNC (Coarse)	Anodized	**446V63**
#8-32 Dia./Thread Size			
¼"	UNC (Coarse)	Anodized	**446V95**
⅜"	UNC (Coarse)	Anodized	**446V96**
½"	UNC (Coarse)	Anodized	**446V97**
⅝"	UNC (Coarse)	Anodized	**446V98**
¾"	UNC (Coarse)	Anodized	**446V99**
⅞"	UNC (Coarse)	Anodized	**446W01**
1"	UNC (Coarse)	Anodized	**446W02**
1¼"	UNC (Coarse)	Anodized	**446W03**
#10-24 Dia./Thread Size			
¼"	UNC (Coarse)	Anodized	**446W54**
⅜"	UNC (Coarse)	Anodized	**446W55**
½"	UNC (Coarse)	Anodized	**446W56**
⅝"	UNC (Coarse)	Anodized	**446W57**
¾"	UNC (Coarse)	Anodized	**446W58**
⅞"	UNC (Coarse)	Anodized	**446W59**
1"	UNC (Coarse)	Anodized	**446W60**

Fastener Length	Fastener Thread Type	Fastener Finish	Item No.
1¼"	UNC (Coarse)	Anodized	**446W61**
1⅜"	UNC (Coarse)	Anodized	**446W62**
1½"	UNC (Coarse)	Anodized	**446W63**
1⅝"	UNC (Coarse)	Anodized	**446W64**
1¾"	UNC (Coarse)	Anodized	**446W65**
1⅞"	UNC (Coarse)	Anodized	**446W66**
2"	UNC (Coarse)	Anodized	**446W67**
#10-32 Dia./Thread Size			
¼"	UNF (Fine)	Anodized	**446X63**
⅜"	UNF (Fine)	Anodized	**446X64**
½"	UNF (Fine)	Anodized	**446X65**
⅝"	UNF (Fine)	Anodized	**446X66**
¾"	UNF (Fine)	Anodized	**446X67**
⅞"	UNF (Fine)	Anodized	**446X68**
1"	UNF (Fine)	Anodized	**446X69**
1¼"	UNF (Fine)	Anodized	**446X70**
1⅜"	UNF (Fine)	Anodized	**446X71**
1½"	UNF (Fine)	Anodized	**446X72**
1⅝"	UNF (Fine)	Anodized	**446X73**
1¾"	UNF (Fine)	Anodized	**446X74**
1⅞"	UNF (Fine)	Anodized	**446X75**
2"	UNF (Fine)	Anodized	**446X76**
¼"-20 Dia./Thread Size			
¼"	UNC (Coarse)	Plain	**446Y43**
⅜"	UNC (Coarse)	Plain	**446Y44**

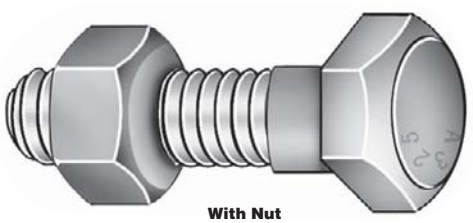
Fastener Length	Fastener Thread Type	Fastener Finish	Item No.
½"	UNC (Coarse)	Plain	**446Y45**
⅝"	UNC (Coarse)	Plain	**446Y46**
¾"	UNC (Coarse)	Plain	**446Y47**
⅞"	UNC (Coarse)	Plain	**446Y48**
1"	UNC (Coarse)	Plain	**446Y49**
1¼"	UNC (Coarse)	Plain	**446Y50**
1⅜"	UNC (Coarse)	Plain	**446Y51**
1½"	UNC (Coarse)	Plain	**446Y52**
1⅝"	UNC (Coarse)	Plain	**446Y53**
1¾"	UNC (Coarse)	Plain	**446Y54**
1⅞"	UNC (Coarse)	Plain	**446Y55**
2"	UNC (Coarse)	Plain	**446Y56**
2¼"	UNC (Coarse)	Plain	**446Y57**
2⅜"	UNC (Coarse)	Plain	**446Y58**
2½"	UNC (Coarse)	Plain	**446Y59**
⅜"-16 Dia./Thread Size			
¼"	UNC (Coarse)	Plain	**446Z37**
⅜"	UNC (Coarse)	Plain	**446Z38**
½"	UNC (Coarse)	Plain	**446Z39**
⅝"	UNC (Coarse)	Plain	**446Z40**
¾"	UNC (Coarse)	Plain	**446Z41**
⅞"	UNC (Coarse)	Plain	**446Z42**
1"	UNC (Coarse)	Plain	**446Z43**
1¼"	UNC (Coarse)	Plain	**446Z44**
1⅜"	UNC (Coarse)	Plain	**446Z45**

Fastener Length	Fastener Thread Type	Fastener Finish	Item No.
1½"	UNC (Coarse)	Plain	**446Z46**
1⅝"	UNC (Coarse)	Plain	**446Z47**
1¾"	UNC (Coarse)	Plain	**446Z48**
1⅞"	UNC (Coarse)	Plain	**446Z49**
2"	UNC (Coarse)	Plain	**446Z50**
2¼"	UNC (Coarse)	Plain	**446Z51**
2⅜"	UNC (Coarse)	Plain	**446Z52**
2½"	UNC (Coarse)	Plain	**446Z53**
⅝"-18 Dia./Thread Size			
¼"	UNC (Coarse)	Plain	**447A23**
⅜"	UNC (Coarse)	Plain	**447A24**
½"	UNC (Coarse)	Plain	**447A25**
⅝"	UNC (Coarse)	Plain	**447A26**
¾"	UNC (Coarse)	Plain	**447A27**
⅞"	UNC (Coarse)	Plain	**447A28**
1"	UNC (Coarse)	Plain	**447A29**
1¼"	UNC (Coarse)	Plain	**447A30**
1⅜"	UNC (Coarse)	Plain	**447A31**
1½"	UNC (Coarse)	Plain	**447A32**
1⅝"	UNC (Coarse)	Plain	**447A33**
1¾"	UNC (Coarse)	Plain	**447A34**
1⅞"	UNC (Coarse)	Plain	**447A35**
2"	UNC (Coarse)	Plain	**447A36**
2¼"	UNC (Coarse)	Plain	**447A37**
2⅜"	UNC (Coarse)	Plain	**447A38**
2½"	UNC (Coarse)	Plain	**447A39**

Heavy Hex Head Steel Structural Bolts

Controlled thread length allows the thread to stop before the joint ply interface to improve the fastener's direct shear performance. UNC thread type. Right-hand thread direction. Meet ASTM F3125.

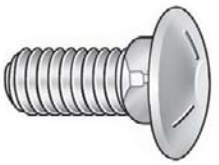
Note: Additional sizes and bulk packs are available on Grainger.com®; search for "heavy hex head structural bolts."



With Nut

Thread	½-13	⅝-11	¾-10	⅞-9	1-8	1⅛-7	1¼-7
Thread Length	1"	1¼"	1 3⁄8"	1½"	1¾"	2"	2"
Head Dia.	⅞"	1 1⁄16"	1 1⁄4"	1 7⁄16"	1 5⁄8"	1 13⁄16"	2"
Head Height	5⁄16"	25⁄64"	15⁄32"	35⁄64"	39⁄64"	1 1⁄16"	25⁄32"

Overall Length	Tensile Strength (psi)	Pkg. Qty.	PLAIN Item No.	GALVANIZED Item No.
WITH NUT				
½"-13 Thread				
1¼"	105,000	25	1RE45	31JL86
1½"	105,000	25	1RE46	31JL87
1¾"	105,000	25	1RE47	31JL88
2"	105,000	25	1RE48	31JL89
2¼"	105,000	25	1RE49	31JL90
2½"	105,000	25	1RE50	31JL91
2¾"	105,000	25	1RE51	31JL92
3"	105,000	25	1RE52	31JL93
3¼"	105,000	25	1RE53	31JL94
3½"	105,000	25	1RE54	31JL95
3¾"	105,000	25	1RE55	31JL96
4"	105,000	25	1RE56	31JL97
⅝"-11 Thread				
1¼"	105,000	10	31JK45	31JL98
1½"	105,000	10	1RE57	1RU84
1¾"	105,000	10	1RE58	1RU85
2"	105,000	10	1RE59	1RU86
2¼"	105,000	10	1RE60	1RU87
2½"	105,000	10	1RE61	1RU88
2¾"	105,000	10	1RE62	1RU89
3"	105,000	10	1RE63	1RU90
3¼"	105,000	10	1RE64	1RU91
3½"	105,000	10	1RE65	1RU92
3¾"	105,000	10	1RE66	1RU93
4"	105,000	10	1RE67	1RU94
4½"	105,000	10	1RE68	1RU95
5"	105,000	10	1RE69	1RU96
5½"	105,000	10	1RE70	1RU97
6"	105,000	10	1RE71	1RU98
¾"-10 Thread				
1½"	105,000	5	1RE72	1RU99
1¾"	105,000	5	1RE73	1RY10
2"	105,000	5	1RE74	1RY11
2¼"	105,000	5	1RE75	1RY12
2½"	105,000	5	1RE76	1RY13
2¾"	105,000	5	1RE77	1RY14
3"	105,000	5	1RE78	1RY15
3¼"	105,000	5	1RE79	1RY16
3½"	105,000	5	1RE80	1RY17
3¾"	105,000	5	1RE81	1RY18
4"	105,000	5	1RE82	1RY19
4¼"	105,000	5	1RE83	1RY20
4½"	105,000	5	1RE84	1RY21
4¾"	105,000	5	1RE85	1RY22
5"	105,000	5	1RE86	1RY23
5¼"	105,000	5	31JK46	31JL99
5½"	105,000	5	1RE87	1RY24
6"	105,000	5	1RE88	1RY25
⅞"-9 Thread				
1¾"	120,000	5	1RE93	1RY30
2"	105,000	5	1RE94	1RY31
2¼"	105,000	5	1RE95	1RY33
2½"	105,000	5	1RE96	1RY35
2¾"	105,000	5	1RE97	1RY38
3"	105,000	5	1RE98	1RY41
3¼"	105,000	5	1RE99	1RY43
3½"	105,000	5	1RU10	1RY44
3¾"	105,000	5	1RU11	1RY45
4"	105,000	5	1RU12	1RY46
4¼"	105,000	5	1RU13	1RY47
4½"	105,000	5	1RU14	1RY48
4¾"	105,000	5	1RU15	1RY49
5"	105,000	5	1RU16	1RY50
5½"	105,000	5	1RU17	1RY51
6"	105,000	5	1RU18	1RY52
1"-8 Thread				
2"	105,000	5	1RU23	1RY57
2¼"	105,000	5	1RU24	1RY58
2½"	105,000	5	1RU25	1RY59
2¾"	105,000	5	1RU26	1RY60
3"	105,000	5	1RU27	1RY61
3¼"	105,000	5	1RU28	1RY62
3½"	105,000	5	1RU29	1RY63
3¾"	105,000	5	1RU30	1RY64
4"	105,000	5	1RU31	1RY65
4¼"	105,000	5	1RU32	1RY66
4½"	105,000	5	1RU33	1RY67
4¾"	120,000	5	1RU34	1RY68
5"	105,000	5	1RU35	1RY69
5½"	105,000	5	1RU36	1RY70
6"	105,000	5	1RU37	1RY71
1⅛"-7 Thread				
3"	105,000	5	1RU42	1RY76
3¼"	105,000	5	1RU43	1RY77
3½"	105,000	5	1RU44	1RY78
3¾"	105,000	5	1RU45	1RY79
4"	105,000	5	1RU46	1RY80
4¼"	105,000	5	1RU47	1RY81
4½"	105,000	5	1RU48	1RY82
4¾"	105,000	5	1RU49	1RY83
5"	105,000	5	1RU50	1RY84
5½"	105,000	5	1RU51	1RY85
6"	105,000	5	1RU52	1RY86
1¼"-7 Thread				
3"	105,000	5	1RU57	1RY91
3¼"	105,000	5	1RU58	1RY92
3½"	105,000	5	1RU59	1RY93
3¾"	105,000	5	1RU60	1RY94
4"	105,000	5	1RU61	1RY95
4¼"	105,000	5	1RU62	1RY96
4½"	105,000	5	1RU63	1RY97
4¾"	105,000	5	1RU64	1RY98
5"	105,000	5	1RU65	1RY99
	105,000	5	—	31JM03
5½"	105,000	5	1RU66	1TA10
	105,000	5	—	31JM04
6"	105,000	5	1RU67	1TA11
	105,000	5	—	31JM05
WITHOUT NUT				
½"-13 Thread				
1¼"	105,000	25	1TA16	1TB55
1½"	105,000	25	1TA17	1TB56
1¾"	105,000	25	1TA18	1TB57
2"	105,000	25	1TA19	1TB58
2¼"	105,000	25	1TA20	1TB59
2½"	105,000	25	1TA21	1TB60
2¾"	105,000	25	1TA22	1TB61
3"	105,000	25	1TA23	1TB62
3¼"	105,000	25	1TA24	1TB63
3½"	105,000	25	1TA25	1TB64
3¾"	105,000	25	1TA26	1TB65
4"	105,000	25	1TA27	1TB66
⅝"-11 Thread				
1¼"	105,000	10	—	31JL62
1½"	105,000	10	1TA28	1TB67
	150000	10	31JK49	—
1¾"	105,000	10	1TA29	1TB68
	150000	10	31JK50	—
2"	105,000	10	1TA30	1TB69
	150000	10	31JK51	—
2¼"	105,000	10	1TA31	1TB70
	150000	10	31JK52	—
2½"	105,000	10	1TA32	1TB71
	150000	10	31JK53	—
2¾"	105,000	10	1TA33	1TB72
	150000	10	31JK54	—
3"	105,000	10	1TA34	1TB73
	150000	10	31JK55	—
3¼"	105,000	10	1TA35	1TB74
	150000	10	31JK56	—
3½"	105,000	10	1TA36	1TB75
	150000	10	31JK57	—
3¾"	105,000	10	1TA37	1TB76
	150000	10	31JK58	—
4"	105,000	10	1TA38	1TB77
	150000	10	31JK59	—
4½"	120,000	10	1TA39	—
	105,000	10	31JK43	1TB78
	150000	10	31JK60	—
5"	105,000	10	1TA40	1TB79
	150000	10	31JK61	—
5½"	105,000	10	1TA41	1TB80
	150000	10	31JK62	—
6"	105,000	10	1TA42	—
	150000	10	31JK63	—
¾"-10 Thread				
1½"	105,000	10	1TA43	31JL63
	150000	10	31JK64	—
1¾"	105,000	10	1TA44	31JL64
	150000	10	31JK65	—
2"	105,000	10	1TA45	31JL65
	150000	10	31JK66	—
2¼"	105,000	10	1TA46	31JL66
	150000	10	31JK67	—
2½"	105,000	10	1TA47	31JL67
	150000	10	31JK68	—
2¾"	105,000	10	1TA48	31JL68
	150000	10	31JK69	—
3"	105,000	10	1TA49	31JL69
	150000	10	31JK70	—
3¼"	105,000	10	1TA50	31JL70
	150000	10	31JK71	—
3½"	105,000	10	1TA51	31JL71
	150000	10	31JK72	—
3¾"	105,000	10	1TA52	31JL72
	150000	10	31JK73	—
4"	105,000	10	1TA53	31JL73
	150000	10	31JK74	—
4¼"	105,000	10	1TA54	31JL74
	150000	10	31JK75	—
4½"	105,000	10	1TA55	31JL75
	150000	10	31JK76	—
4¾"	105,000	10	1TA56	31JL76
	150000	10	31JK77	—
5"	105,000	10	1TA57	31JL77
	150000	10	31JK78	—
5¼"	105,000	10	1TA58	31JL78
	150000	10	31JK79	—
5½"	105,000	10	1TA59	31JL79
	150000	10	31JK80	—
5¾"	120,000	10	1TA60	—
	120,000	5	—	1TB99
6"	105,000	10	1TA61	31JL80
	150000	10	31JK81	—
⅞"-9 Thread				
1¾"	120,000	5	1TA66	1TE15
2"	105,000	5	1TA67	1TE16
	150000	5	31JK85	—
2¼"	105,000	5	1TA68	1TE17
	150000	5	31JK86	—
2½"	105,000	5	1TA69	1TE18
	150000	5	31JK87	—
2¾"	105,000	5	1TA70	1TE19
	150000	5	31JK88	—
3"	105,000	5	1TA71	1TE20
	150000	5	31JK89	—
3¼"	105,000	5	1TA72	1TE21
	150000	5	31JK90	—
3½"	105,000	5	1TA73	1TE22
	150000	5	31JK91	—
3¾"	105,000	5	1TA74	1TE23
	150000	5	31JK92	—
4"	105,000	5	1TA75	1TE24
	150000	5	31JK93	—
4¼"	105,000	5	1TA76	1TE25
	150000	5	31JK94	—
4½"	105,000	5	1TA77	1TE26
	150000	5	31JK95	—
4¾"	105,000	5	1TA78	1TE27
	150000	5	31JK96	—
5"	105,000	5	1TA79	1TE28
	150000	5	31JK97	—
5¼"	120,000	5	1TA80	1TE29
5½"	105,000	5	1TA81	1TE30
	150000	5	31JK98	—
5¾"	120,000	5	1TA82	1TE31
6"	105,000	5	1TA83	1TE32
	150000	5	31JK99	—
1"-8 Thread				
2"	105,000	5	1TA88	1TE37
	150000	5	31JL04	—
2¼"	105,000	5	1TA89	1TE38
	150000	5	31JL05	—
2½"	105,000	5	1TA90	1TE39
	150000	5	31JL06	—
2¾"	105,000	5	1TA91	1TE40
	150000	5	31JL07	—
3"	105,000	5	1TA92	1TE41
	150000	5	31JL08	—
3¼"	105,000	5	1TA93	1TE42
	150000	5	31JL09	—
3½"	105,000	5	1TA94	1TE43
	150000	5	31JL10	—
3¾"	105,000	5	1TA95	1TE44
	150000	5	31JL11	—
4"	105,000	5	1TA96	1TE45
	150000	5	31JL12	—
4¼"	105,000	5	1TA97	1TE46
	150000	5	31JL13	—
4½"	105,000	5	1TA98	1TE47
	150000	5	31JL14	—
4¾"	120,000	5	1TA99	1TE48
5"	105,000	5	1TB10	1TE49
	150000	5	31JL15	—
5½"	105,000	5	1TB11	1TE50
	150000	5	31JL16	—
6"	105,000	5	1TB12	1TE51
	150000	5	31JL17	—
1⅛"-7 Thread				
3"	150000	5	31JL22	—
3¼"	150000	5	31JL23	—
3½"	150000	5	31JL24	—
4"	150000	5	31JL25	—
4¼"	150000	5	31JL26	—
4½"	150000	5	31JL27	—
5"	150000	5	31JL28	—
5½"	150000	5	31JL29	—
6"	150000	5	31JL30	—
1¼"-7 Thread				
3"	150000	5	31JL36	—
3¼"	150000	5	31JL37	—
3½"	150000	5	31JL38	—
4"	150000	5	31JL39	—
4¼"	150000	5	31JL40	—
4½"	150000	5	31JL41	—
5"	150000	5	31JL42	—
5½"	150000	5	31JL43	—
6"	150000	5	31JL44	—



Steel Carriage Bolts

Square neck cuts into wood to prevent turning while the nut is tightened.

Note: Additional sizes and bulk packs are available on Grainger.com®; search for "carriage bolts."

Thread	¼-20	5⁄16-18	⅜-16	7⁄16-14	½-13	⅝-11	¾-10
Head Dia.	0.563"	0.688"	0.782"	0.907"	1.032"	1.219"	1.469"
Head Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Square Width	0.245"	0.307"	0.368"	0.431"	0.492"	0.616"	0.741"
Square Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Drill Size	17⁄64"	21⁄64"	25⁄64"	29⁄64"	33⁄64"	41⁄64"	49⁄64"

Length	Grade	Finish	Item No.	Pkg. Qty.
¼"-20 Thread Size				
½"	2	Zinc	**2XA26**	100
	2	Plain	**31HZ22**	100
⅝"	2	Zinc	**31HZ64**	100
¾"	2	Plain	**21A879**	100
	2	Zinc	**1LE79**	100
	5	Zinc	**2DU36**	100
1"	2	Plain	**21A880**	100
	2	Zinc	**1LE80**	100
	2	Galv	**1LU71**	100
1¼"	2	Plain	**21A881**	100
	2	Zinc	**1LE81**	100
	2	Galv	**1LU72**	100
	5	Zinc	**2DU38**	100
1½"	2	Plain	**21A882**	100
	2	Zinc	**1LE82**	100
	2	Galv	**1LU73**	100
	5	Zinc	**2DU39**	100
1¾"	8	Plain	**21A883**	100
	2	Zinc	**1LE83**	100
2"	2	Plain	**21A884**	100
	2	Zinc	**1LE84**	100
	2	Galv	**1LU74**	100
	2	Plain	**32TH86**	800
	5	Zinc	**2DU40**	100
2¼"	2	Zinc	**1LE85**	100
2½"	2	Plain	**21A885**	100
	2	Zinc	**1LE86**	100
	2	Plain	**32TH87**	700
	5	Zinc	**2DU41**	100
2¾"	2	Zinc	**1LE87**	100
3"	2	Plain	**31HZ23**	50
	2	Zinc	**31HZ65**	50
	2	Galv	**31JA17**	50
	5	Zinc	**31JA41**	50
3½"	2	Plain	**31HZ24**	50
	2	Zinc	**31HZ66**	50
	2	Galv	**31JA18**	50
	5	Zinc	**31JA42**	50
4"	2	Plain	**31HZ25**	50
	2	Zinc	**31HZ67**	50
	2	Galv	**31JA19**	50
	5	Zinc	**31JA43**	50
4½"	2	Plain	**31HZ26**	50
	2	Zinc	**31HZ68**	50
5"	2	Plain	**31HZ27**	50
	2	Zinc	**31HZ69**	50
	2	Galv	**31JA20**	50
	5	Zinc	**31JA44**	50
5⁄16"-18 Thread Size				
¾"	8	Plain	**21A886**	100
	2	Zinc	**1LE98**	100
	5	Zinc	**2DU42**	100
1"	2	Plain	**21A887**	100
	2	Zinc	**1LE99**	100
	2	Galv	**1LU84**	100
	2	Plain	**32TH93**	800
	5	Zinc	**2DU43**	100
1¼"	2	Plain	**21A888**	100
	2	Zinc	**1LU10**	100
	2	Galv	**31JA21**	100
	5	Zinc	**2DU44**	100
1½"	2	Plain	**21A889**	100
	2	Zinc	**1LU11**	100
	2	Galv	**1LU85**	100
	2	Plain	**32TH94**	600
	5	Zinc	**2DU45**	100
1¾"	8	Plain	**21A890**	100
	2	Zinc	**1LU12**	100
2"	2	Plain	**21A891**	100
	2	Zinc	**1LU13**	100
	2	Galv	**1LU86**	100
	2	Plain	**32TH95**	500
2¼"	2	Zinc	**1LU14**	100
2½"	2	Plain	**21A892**	100
	2	Zinc	**1LU15**	100
	2	Galv	**1LU87**	100
	2	Plain	**32TH96**	400
	5	Zinc	**31JA45**	50
2¾"	2	Zinc	**31HZ70**	50
3"	2	Plain	**31HZ28**	50
	2	Zinc	**31HZ71**	50
	2	Galv	**31JA22**	50
	5	Zinc	**31JA46**	50
3½"	2	Zinc	**1LU18**	50
	2	Galv	**1LU89**	50
	2	Plain	**31HZ29**	50
4"	2	Zinc	**1LU19**	50
	2	Galv	**1LU90**	50
	2	Plain	**31HZ30**	50
	5	Zinc	**31JA47**	50
4½"	2	Zinc	**1LU20**	50
	2	Plain	**31HZ31**	50
5"	2	Zinc	**1LU21**	50
	2	Galv	**1LU92**	50
	2	Plain	**31HZ32**	50
	5	Zinc	**31JA48**	50
5½"	2	Zinc	**1LU22**	50
	2	Plain	**31HZ33**	50
6"	2	Zinc	**1LU23**	50
	2	Plain	**31HZ34**	50
⅜"-16 Thread Size				
¾"	8	Plain	**21A893**	100
	2	Zinc	**2XA29**	100
	5	Zinc	**2DU49**	100
1"	2	Plain	**21A894**	100
	2	Zinc	**1LU24**	100
	2	Galv	**1LU95**	100
	2	Plain	**32TJ05**	500
	5	Zinc	**2DU50**	100
1¼"	2	Zinc	**1LU25**	100
	2	Galv	**31JA23**	100
	5	Zinc	**2DU51**	100
1½"	2	Plain	**21A895**	100
	2	Zinc	**1LU26**	100
	2	Galv	**1LU96**	100
	2	Plain	**32TJ06**	400
	5	Zinc	**2DU52**	100
1¾"	8	Plain	**21A896**	100
	2	Zinc	**1LU27**	100
	5	Zinc	**2DU53**	100
2"	8	Plain	**21A897**	100
	2	Plain	**31HZ35**	50
	2	Zinc	**31HZ72**	50
	2	Galv	**31JA24**	50
	5	Zinc	**31JA49**	50
2¼"	2	Zinc	**1LU29**	50
	5	Zinc	**2DU55**	50
2½"	8	Plain	**21A898**	100
	2	Zinc	**1LU30**	50
	2	Galv	**1LU98**	50
	2	Plain	**31HZ36**	50
	5	Zinc	**2DU56**	50
2¾"	2	Zinc	**1LU31**	50
3"	8	Plain	**21A899**	100
	2	Plain	**31HZ37**	25
	2	Zinc	**31HZ73**	25
	2	Galv	**31JA25**	25
	5	Zinc	**31JA50**	25
3½"	2	Plain	**31HZ38**	25
	2	Zinc	**31HZ74**	25
	2	Galv	**31JA26**	25
	5	Zinc	**31JA51**	25
4"	2	Plain	**21A901**	25
	2	Zinc	**31HZ75**	25
	2	Galv	**31JA27**	25
	2	Plain	**32TJ11**	200
	5	Zinc	**31JA52**	25
4½"	2	Plain	**31HZ39**	10
	2	Zinc	**31HZ76**	10
5"	8	Plain	**21A902**	25
	2	Plain	**31HZ40**	10
	2	Zinc	**31HZ77**	10
	2	Galv	**31JA28**	10
	5	Zinc	**31JA53**	10
5½"	2	Zinc	**31HZ78**	10
6"	2	Plain	**31HZ41**	10
	2	Zinc	**31HZ79**	10
	2	Galv	**31JA29**	10
	5	Zinc	**31JA54**	10
7⁄16"-14 Thread Size				
1"	2	Zinc	**31HZ82**	50
1¼"	2	Plain	**31HZ44**	50
1½"	2	Plain	**31HZ45**	50
2"	2	Zinc	**1LU48**	50
	2	Plain	**31HZ46**	50
2½"	2	Plain	**31HZ47**	25
3"	2	Zinc	**31HZ83**	25
4"	2	Zinc	**31HZ84**	10
4½"	2	Zinc	**31HZ85**	10
½"-13 Thread Size				
1"	2	Zinc	**31HZ86**	50
	5	Zinc	**2DU60**	50
1¼"	2	Plain	**31HZ48**	50
	2	Zinc	**31HZ87**	50
	5	Zinc	**2DU61**	50
	5	Plain	**21A942**	50
1½"	2	Plain	**21A903**	50
	2	Zinc	**1LU51**	50
	2	Galv	**1LY21**	50
	2	Plain	**32TJ16**	200
	5	Zinc	**2DU62**	50
	5	Plain	**21A943**	50
1¾"	8	Plain	**21A904**	50
	2	Plain	**31HZ49**	25
	2	Zinc	**31HZ88**	25
	5	Zinc	**31JA55**	25
	5	Plain	**21A944**	50
2"	8	Plain	**21A905**	50
	2	Plain	**31HZ50**	25
	2	Zinc	**31HZ89**	25
	2	Galv	**31JA30**	25
	5	Zinc	**31JA56**	25
	5	Plain	**21A945**	50
2¼"	2	Zinc	**31HZ90**	25
2½"	2	Plain	**21A906**	25
	2	Zinc	**31HZ91**	25
	2	Galv	**31JA31**	25
	2	Plain	**32TJ18**	150
	5	Zinc	**31JA57**	25
	5	Plain	**21A946**	25
2¾"	2	Zinc	**31HZ92**	25
3"	2	Plain	**21A907**	25
	2	Zinc	**31HZ93**	25
	2	Galv	**31JA32**	25
	2	Plain	**32TJ19**	125
	5	Zinc	**31JA58**	25
	5	Plain	**21A947**	25
3½"	2	Plain	**21A908**	25
	2	Zinc	**1LU55**	25
	2	Galv	**1LY25**	25
	5	Zinc	**31JA59**	10
	5	Plain	**21A948**	25
4"	2	Plain	**21A909**	10
	2	Zinc	**31HZ94**	10
	2	Galv	**31JA33**	10
	2	Plain	**32TJ20**	100
	5	Zinc	**31JA60**	10
	5	Plain	**21A949**	10
4½"	8	Plain	**21A910**	10
	5	Zinc	**2DU69**	25
	5	Plain	**21A950**	10
5"	2	Plain	**21A911**	10
	2	Zinc	**31HZ95**	10
	2	Galv	**31JA34**	10
	5	Zinc	**31JA61**	10
	5	Plain	**21A951**	10
5½"	8	Plain	**21A912**	10
	5	Plain	**21A952**	10
6"	2	Plain	**21A913**	10
	2	Zinc	**31HZ96**	10
	2	Galv	**31JA35**	10
	5	Zinc	**31JA62**	10
	5	Plain	**21A953**	10
⅝-11 Thread Size				
1½"	2	Zinc	**31JA01**	10
2"	8	Plain	**21A915**	25
	2	Plain	**31HZ51**	10
	2	Zinc	**31JA02**	10
	2	Galv	**31JA36**	10
	5	Zinc	**31JA63**	10
	5	Plain	**21A957**	25
2¼"	8	Plain	**21A916**	25
	2	Plain	**31HZ52**	10
	5	Plain	**21A958**	25
2½"	8	Plain	**21A917**	25
	2	Plain	**31HZ53**	10
	2	Zinc	**31JA03**	10
	2	Galv	**31JA37**	10
	5	Zinc	**31JA64**	10
	5	Plain	**21A959**	25
2¾"	8	Plain	**21A918**	25
3"	2	Plain	**21A919**	10
	2	Zinc	**31JA04**	10
	2	Galv	**31JA38**	10
	5	Zinc	**31JA65**	10
	5	Plain	**21A961**	10
3½"	8	Plain	**21A920**	10
	2	Plain	**31HZ54**	10
	2	Zinc	**31JA05**	10
	5	Zinc	**31JA66**	10
	5	Plain	**21A962**	10
4"	8	Plain	**21A921**	5
	2	Plain	**31HZ55**	10
	2	Zinc	**31JA06**	10
	2	Galv	**31JA39**	10
	5	Zinc	**31JA67**	10
	5	Plain	**21A963**	5
4½"	8	Plain	**21A922**	5
	2	Zinc	**31JA07**	10
	5	Plain	**21A964**	5
5"	8	Plain	**21A923**	5
	2	Plain	**31HZ56**	10
	2	Zinc	**31JA08**	10
	2	Galv	**31JA40**	10
	5	Zinc	**31JA68**	10
	5	Plain	**21A965**	5
5½"	5	Plain	**21A966**	5
6"	8	Plain	**21A924**	5
	2	Plain	**31HZ57**	10
	2	Zinc	**31JA09**	10
	5	Zinc	**31JA69**	10
¾"-10 Thread Size				
2"	2	Plain	**21A928**	10
	2	Zinc	**31JA10**	10
	5	Zinc	**31JA70**	10
2½"	8	Plain	**21A929**	10
2¾"	8	Plain	**21A930**	10
3"	8	Plain	**21A931**	5
	2	Plain	**31HZ58**	10
	2	Zinc	**31JA11**	10
	5	Zinc	**31JA71**	10
	5	Plain	**21A972**	5
3½"	8	Plain	**21A932**	5
	5	Plain	**21A973**	5
4"	8	Plain	**21A933**	5
	2	Plain	**31HZ59**	10
	2	Zinc	**31JA12**	10
	5	Zinc	**31JA72**	10
	5	Plain	**21A974**	5
4½"	8	Plain	**21A934**	5
	5	Plain	**21A975**	5
5"	8	Plain	**21A935**	5
	2	Plain	**31HZ60**	10
	2	Zinc	**31JA13**	10
	5	Zinc	**31JA73**	10
	5	Plain	**21A976**	5
5½"	8	Plain	**21A936**	5
	5	Plain	**21A977**	5
6"	8	Plain	**21A937**	5
	2	Plain	**31HZ61**	10
	2	Zinc	**31JA14**	10
	5	Plain	**21A978**	5



18-8 Stainless Steel Carriage Bolts

- Tensile strength: 85,000 to 140,000 psi
- Plain finish

Compatible with ACQ treated wood. Meet ASME B18.5 standard.

Fastener Length	Item No.	Pkg. Qty.
¼"-20 Thread Size		
½"	**1VB78**	100
⅝"	**1VB79**	100
¾"	**1VB80**	100
1"	**31JA74**	100
1¼"	**31JA75**	100
1½"	**31JA76**	100
1¾"	**31JA77**	100
2"	**31JA78**	100
2¼"	**31JA79**	100
2½"	**31JA80**	100
2¾"	**31JA81**	100
3"	**31JA82**	50
3½"	**31JA83**	50
4"	**31JA84**	50
5"	**31JA85**	50

Fastener Length	Item No.	Pkg. Qty.
5⁄16"-18 Thread Size		
¾"	**31JA86**	100
1"	**31JA87**	100
1¼"	**31JA88**	100
1½"	**31JA89**	100
1¾"	**31JA90**	100
2"	**31JA91**	100
2¼"	**31JA92**	100
2¾"	**1VE11**	10
3"	**31JA94**	50
3½"	**31JA95**	50
4"	**31JA96**	50
5"	**1VE15**	5

Fastener Length	Item No.	Pkg. Qty.
⅜"-16 Thread Size		
¾"	**1VE16**	25
1"	**31JA97**	100
1¼"	**31JA98**	100
1½"	**31JA99**	100
1¾"	**1VE20**	25
2"	**31JC01**	50
2½"	**31JC02**	50
2¾"	**1VE23**	10
3"	**31JC03**	25
3½"	**31JC04**	25
4"	**31JC05**	25
4½"	**31JC06**	10
5"	**31JC07**	10
6"	**31JC08**	10

Fastener Length	Item No.	Pkg. Qty.
½"-13 Thread Size		
1"	**1VE30**	10
1¼"	**31JC09**	50
1½"	**31JC10**	50
1¾"	**31JC11**	25
2"	**31JC12**	25
2½"	**31JC13**	25
3"	**31JC14**	25
3½"	**31JC15**	10
4"	**31JC16**	10
5"	**31JC17**	10
6"	**31JC18**	10

S-Hooks

Closed Eye—Secure attachment at 1 end to strap, wire rope assembly, or rope. To be used for pulling, hoisting, winching, or other rigging applications.
- 316 stainless steel

Open Eye—For use with light ceiling fixtures and canvas tie-downs. Do not use for lifting.
- Zinc-plated carbon steel



Closed Eye



Open Eye

Width (in.)	Length (in.)	Max. Working Load	Item No.	Pkg. Qty.
Closed Eye S Hook				
1½"	1¾"	225 lb.	**5LAC9**	1
2"	2 1/16"	440 lb.	**5LAD0**	1
2¼"	3"	660 lb.	**5LAD1**	1
2¾"	3 1/16"	880 lb.	**5LAD2**	1
Open Eye S Hook				
⅜"	¾"	7 lb.	**2ZDK2**	50
17/32"	1"	16 lb.	**2ZDK3**	50
23/32"	1½"	26 lb.	**2ZDK4**	10
⅛"	1¾"	40 lb.	**2ZDK5**	10
1"	2⅛"	55 lb.	**2ZDK6**	10
1"	3"	130 lb.	**2ZDK7**	10
1¾"	3½"	160 lb.	**2ZDK8**	10

Elevator Bolts

- Tensile strength: 60,000 psi

Flat, smooth, countersunk head allows minimal extrusion from the wall; square neck provides a locking feature. For use where there is little space between elevator and wall. Made of zinc-plated low-carbon steel. Meet ASME B18.5 standards.

Length	Head Dia.	Head Height	Pkg. Qty.	PLAIN Item No.	ZINC PLATED Item No.
¼"-20 Thread Size					
¾"	0.969"	0.078"	50	**41UJ16**	**41UJ43**
1"	0.969"	0.078"	50	**41UJ17**	**41UJ44**
1¼"	0.969"	0.078"	50	**41UJ18**	**41UJ45**
1½"	0.969"	0.078"	50	**41UJ19**	**41UJ46**
1¾"	0.969"	0.078"	50	**41UJ20**	**41UJ47**
2"	0.969"	0.078"	50	**41UJ21**	**41UJ48**
2¼"	0.969"	0.078"	50	**41UJ22**	—
2½"	0.969"	0.078"	50	**41UJ23**	**41UJ49**
3"	0.969"	0.078"	50	**41UJ25**	**41UJ50**
5/16"-18 Thread Size					
¾"	1.188"	0.094"	25	**41UJ26**	**41UJ51**
1"	1.188"	0.094"	25	**41UJ27**	**41UJ52**
1¼"	1.188"	0.094"	25	**41UJ28**	**41UJ53**
1½"	1.188"	0.094"	25	**41UJ29**	**41UJ54**
1¾"	1.188"	0.094"	25	**41UJ30**	**41UJ55**
2"	1.188"	0.094"	25	**41UJ31**	**41UJ56**
2½"	1.188"	0.094"	25	**41UJ33**	**41UJ57**
3"	1.188"	0.094"	25	**41UJ35**	**41UJ58**
⅜"-16 Thread Size					
1"	1.312"	0.125"	10	**41UJ36**	**41UJ59**
1¼"	1.312"	0.125"	10	**41UJ37**	**41UJ60**
1½"	1.312"	0.125"	10	**41UJ38**	**41UJ61**
1¾"	1.312"	0.125"	10	**41UJ39**	**41UJ62**
2"	1.312"	0.125"	10	**41UJ40**	**41UJ63**
2½"	1.312"	0.125"	10	**41UJ41**	**41UJ64**
3"	1.312"	0.125"	10	**41UJ42**	**41UJ65**

Steel Chain

- Length: 100 ft.

Single-loop jack chain is kink-resistant and is for lightweight applications. Double-loop chain is intended for higher-strength applications.

Trade Size	Finish	Working Load Limit	Item No.
Single Loop Chain			
304 Stainless Steel			
10	Plain	43 lb.	**2ZDH2**
12		29 lb.	**2ZDH1**
14		16 lb.	**2ZDG9**
16		10 lb.	**2ZDG8**
18		5 lb.	**2ZDG7**
Brass			
10	Plain	34 lb.	**2ZDG6**
12		20 lb.	**2ZDG5**
14		11 lb.	**2ZDG4**
16		8 lb.	**2ZDG3**
Steel			
10	Zinc	43 lb.	**2ZDE8**
	Nickel	43 lb.	**2ZDF5**
	Brass	43 lb.	**2ZDG2**
12	Zinc	29 lb.	**2ZDJ9**
	Nickel	29 lb.	**2ZDF4**
	Brass	29 lb.	**2ZDG1**
14	Zinc	16 lb.	**2ZDE7**
	Nickel	16 lb.	**2ZDF3**
16	Zinc	10 lb.	**2ZDE6**
	Nickel	10 lb.	**2ZDF2**
	Brass	10 lb.	**2ZDF8**
18	Zinc	5 lb.	**2ZDE5**
	Nickel	5 lb.	**2ZDF1**
	Brass	5 lb.	**2ZDF7**
20	Nickel	3 lb.	**2ZDE9**
	Brass	3 lb.	**2ZDF6**
Double Loop Chain			
304 Stainless Steel			
1	Plain	155 lb.	**2ZDJ7**
2/0		255 lb.	**2ZDJ8**
3		100 lb.	**2ZDJ6**
Steel			
1	Zinc	155 lb.	**2ZDH6**
1/0	Galvanized	200 lb.	**2ZDJ3**
2	Zinc	115 lb.	**2ZDH5**
2/0		255 lb.	**2ZDH7**
	Galvanized	255 lb.	**2ZDJ4**
3	Zinc	90 lb.	**2ZDK1**
	Galvanized	90 lb.	**2ZDJ2**
3/0	Zinc	305 lb.	**2ZDH8**
4		70 lb.	**2ZDH4**
	Galvanized	70 lb.	**2ZDJ1**
4/0	Zinc	365 lb.	**2ZDH9**
5		55 lb.	**2ZDH3**



Single Loop Jack Chain



Double Loop Chain



E-18 AudiTORX Drive
No. 19N073



TX-90 TORX Bit
No. 19N076



Truss Head
No. 19N042



Flat Head
No. 19N043



Flat Head
No. 19N040



Dome Head
No. 19N070



Oval Head
No. 19N062



Pan Head
No. 19N056



Camrail Flange Lock Nut
No. 19N049

Grade 8 Camrail Bolts and Nuts

- Tensile strength: 150,000
- Alloy steel except Flange Nuts are steel

Designed specifically for maintenance and repair use in locomotive applications.

For Use With	Item No.
Camrail Tooling	
¾" Square Drive	
Bolts having E-18 AudiTORX Drive	**19N073**
Bolts having E-20 AudiTORX Drive	**19N074**
¾" TORX Flanged Lock Nut	**19N075**
TX-90 TORX Bit	**19N076**
1" Square Drive	
1" Track Bolts having E-20 AudiTORX Drive	**19N077**
⅞" TORX Flanged Lock Nut	**19N078**
TX-70 TORX Bit	**19N079**
TX-90 TORX Bit	**19N080**

Thread Size	Length	Drive System	Head Style	Standard Package Item No.	Standard Package Pkg. Qty.	Bulk Package Item No.	Bulk Package Pkg. Qty.
Camrail Bolt							
⅝"-11	3¼"	Audi Torx (E-20)	Dome	**19N072**	10	**19N114**	100
	2"	Audi Torx (E-20)	Truss	**19N042**	10	—	—
¾"-10	2⅜"	Audi Torx (E-20)	Flat	**19N050**	10	**19N091**	120
	2⅝"	Audi Torx (E-20)	Flat	**19N043**	10	**19N084**	100
		Torx (TX-70)	Flat	**19N044**	10	**19N085**	110
	2¾"	Audi Torx (E-20)	Truss	**19N047**	10	**19N088**	90
	3"	Torx (TX-70)	Flat	**19N040**	5	**19N081**	60
	3¼"	Audi Torx (E-20)	Flat	**19N046**	10	**19N087**	100
	3¾"	Audi Torx (E-20)	Flat	**19N045**	10	**19N086**	80
		Torx (TX-70)	Flat	**19N051**	10	**19N092**	100
	4½"	Torx (TX-70)	Flat	**19N048**	10	**19N089**	75

Thread Size	Length	Drive System	Head Style	Standard Package Item No.	Standard Package Pkg. Qty.	Bulk Package Item No.	Bulk Package Pkg. Qty.
⅞"-9	2½"	Audi Torx (E-20)	Pan	**19N060**	5	**19N102**	60
	3"	Audi Torx (E-20)	Pan	**19N059**	5	**19N101**	50
	3¼"	Audi Torx (E-20)	Dome	**19N070**	5	**19N112**	60
	3½"	Audi Torx (E-20)	Oval	—	—	**19N106**	60
		Audi Torx (E-20)	Pan	**19N058**	5	**19N099**	50
		Audi Torx E-20	Flat	—	—	**19N096**	60
		Torx (TX-90)	Flat	**19N055**	5	—	—
		Torx (TX-90)	Oval	**19N069**	5	**19N111**	70
	4"	Audi Torx (E-20)	Flat	**19N054**	5	**19N095**	60
		Audi Torx (E-20)	Oval	**19N062**	5	**19N104**	50
		Audi Torx (E-20)	Pan	**19N057**	5	**19N098**	45
		Audi Torx (E-20)	Pan	—	—	**19N107**	50
		Torx (TX-90)	Oval	**19N068**	5	**19N110**	70
		Torx (TX-90)	Pan	**19N065**	5	—	—
	4½"	Audi Torx (E-20)	Pan	**19N056**	5	**19N097**	40
		Torx (TX-90)	Oval	**19N067**	5	**19N109**	60
Camrail Flange Lock Nut							
¾"-10	—	Torx	Flange	**19N049**	20	**19N090**	300
⅞"-9		Torx	Flange	**19N061**	20	**19N103**	200



Includes 2 nuts



U-Bolt Plate

Standard Round Bend U-Bolts

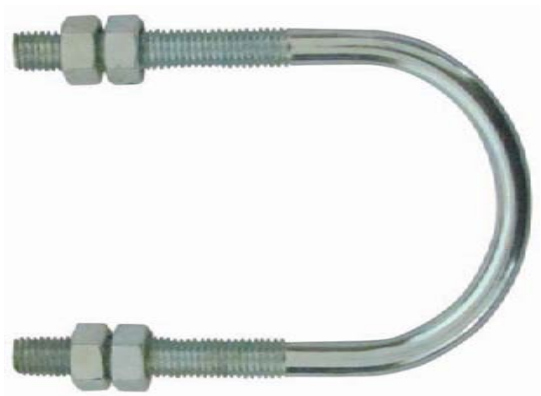
Note: Additional sizes and finishes are available on Grainger.com®; search for "u-bolts" and use the filters on the left side of the page.

W	L	H	A	B	C	Thickness	Pkg. Qty.	Low Carbon Steel Item No.	304 Stainless Steel Item No.
U-Bolt Plate									
0.75	2.063	0.687	0.313	0.312	0.187	1 5/16"	10	**31KF15**	—
0.75	2.5	0.687	0.781	0.312	0.187	25/32"	10	**31KF16**	**31KF25**
0.75	3.188	0.687	1.375	0.312	0.187	1 3/8"	10	**31KF17**	**31KF26**
0.75	3.75	0.687	0.875	0.375	0.219	1 27/32"	10	**31KF18**	**31KF27**
0.75	2.75	0.687	1.375	0.375	0.219	7/8"	10	**31KF19**	—
0.75	3.188	0.687	2.875	0.375	0.219	1 3/8"	10	**31KF20**	**31KF29**
0.75	4.75	0.687	2.875	0.375	0.219	2 27/32"	10	**31KF21**	**31KF30**
0.75	2.063	0.687	0.313	0.312	0.187	5/16"	10	—	**31KF24**
0.75	2.75	0.687	1.375	0.375	0.219	27/32"	10	—	**31KF28**
1	5.5	0.937	2.875	0.562	0.312	2 27/32"	5	**31KF22**	—
1	6.188	0.937	3.875	0.562	0.312	6 3/16"	5	**31KF23**	**31KF32**
1	5.5	0.937	2.875	0.562	0.312	5 1/2"	5	—	**31KF31**

Thread Size	Thread Length	Inside Length	Finish	Includes	Item No.	Pkg. Qty.
304 SS						
¼ in Pipe Size, 9/16" Inside Width						
¼"-20	¾"	1¼"	Plain	2 Nuts/Plate	**5YY10**	10
	¾"	1¼"	Plain	2 Nuts	**5YU69**	10
⅜ in Pipe Size, ¾" Inside Width						
¼"-20	5/8"	1¼"	Plain	2 Nuts	**3XRZ7**	10
	¾"	1¼"	Plain	2 Nuts/Plate	**3XTJ5**	10
	1½"	2¼"	Plain	2 Nuts/Plate	**3XTJ6**	10
	1½"	2¼"	Plain	2 Nuts	**3XRZ8**	10
½ in Pipe Size, 1" Inside Width						
¼"-20	1"	1¾"	Plain	2 Nuts	**3XRZ9**	10
5/16"-18	1⅜"	2 3/16"	Plain	2 Nuts/Plate	**5YY19**	10
	1⅜"	2 3/16"	Plain	2 Nuts	**5YU78**	10
⅜"-16	1¼"	2¼"	Plain	2 Nuts	**3XTA6**	10
¾ in Pipe Size, 1⅛" Inside Width						
¼"-20	1"	2"	Plain	2 Nuts	**3XTA1**	10
	1½"	3⅛"	Plain	2 Nuts	**31KF97**	1
¾ in Pipe Size, 1¼" Inside Width						
¼"-20	1¼"	2¼"	Plain	2 Nuts/Plate	**5YY15**	10
	1¼"	2¼"	Plain	2 Nuts	**31KM01**	1
⅜"-16	1¼"	2¼"	Plain	2 Nuts/Plate	**5YY27**	10
	1¼"	2¼"	Plain	2 Nuts	**5YU86**	10
1 in Pipe Size, 1⅜" Inside Width						
5/16"-18	1"	2 3/16"	Plain	2 Nuts/Plate	**5YY20**	10
	1"	2 3/16"	Plain	2 Nuts	**3XTA2**	10
	2"	3⅝"	Plain	2 Nuts	**31KF98**	1
1 in Pipe Size, 1½" Inside Width						
¼"-20	1⅜"	2¾"	Plain	2 Nuts	**31KM02**	1
5/16"-18	1"	2 3/16"	Plain	2 Nuts	**5YU80**	10
⅜"-16	1¼"	2½"	Plain	2 Nuts/Plate	**5YY28**	10
	1¼"	2½"	Plain	2 Nuts	**3XTA7**	10
1 ¼ in Pipe Size, 1¾" Inside Width						
¼"-20	1⅜"	3"	Plain	2 Nuts/Plate	**5YY17**	10
	1⅜"	3"	Plain	2 Nuts	**31KM03**	1
	1⅜"	3"	Plain	2 Nuts	**5YU76**	10
5/16"-18	1⅛"	2 11/16"	Plain	2 Nuts/Plate	**5YY22**	10
	1⅛"	2 11/16"	Plain	2 Nuts	**31KM05**	1
	1½"	2 11/16"	Plain	2 Nuts	**3XTA3**	10
⅜"-16	1⅛"	2¾"	Plain	2 Nuts/Plate	**5YY29**	10
	1⅛"	2¾"	Plain	2 Nuts	**5YU88**	10
1 ½ in Pipe Size, 2" Inside Width						
¼"-20	1⅜"	3¼"	Plain	2 Nuts	**31KM04**	1
	1⅜"	3¼"	Plain	2 Nuts	**5YU77**	10
5/16"-18	1"	2 11/16"	Plain	2 Nuts/Plate	**5YY23**	10
	1"	2 11/16"	Plain	2 Nuts	**31KM06**	1
	3"	4¾"	Plain	2 Nuts	**31KF99**	1
⅜"-16	1¼"	2⅝"	Plain	2 Nuts	**5YU89**	10
2 in Pipe Size, 2½" Inside Width						
5/16"-18	1"	3 3/16"	Plain	2 Nuts/Plate	**5YY24**	10
	1"	3 3/16"	Plain	2 Nuts	**31KM07**	1
	3"	5⅝"	Plain	2 Nuts	**31KG01**	1
⅜"-16	1¼"	3⅛"	Plain	2 Nuts/Plate	**5YY31**	10
	1¼"	3⅛"	Plain	2 Nuts	**5YU90**	10
2 ½ in Pipe Size, 3" Inside Width						
5/16"-18	1"	3 11/16"	Plain	2 Nuts/Plate	**5YY25**	10
	1"	3 11/16"	Plain	2 Nuts	**31KM08**	1
⅜"-16	1¼"	3⅝"	Plain	2 Nuts/Plate	**5YY32**	10
	1¼"	3⅝"	Plain	2 Nuts	**5YU91**	10
½"-13	1⅝"	4½"	Plain	2 Nuts/Plate	**5YY34**	1
	1⅝"	4½"	Plain	2 Nuts	**5YU93**	1
3 in Pipe Size, 3½" Inside Width						
⅜"-16	1¼"	4⅛"	Plain	2 Nuts/Plate	**5YY33**	10
	1¼"	4⅛"	Plain	2 Nuts	**5YU92**	10
½"-13	1½"	5"	Plain	2 Nuts	**5YU94**	1
3 ½ in Pipe Size, 4" Inside Width						
½"-13	1½"	5½"	Plain	2 Nuts/Plate	**5YY36**	1
	1½"	5½"	Plain	2 Nuts	**5YU95**	1
4 in Pipe Size, 4½" Inside Width						
½"-13	1½"	6"	Plain	2 Nuts/Plate	**5YY37**	1
	1½"	6"	Plain	2 Nuts	**5YU96**	1
5 in Pipe Size, 5⅝" Inside Width						
½"-13	2"	7¼"	Plain	2 Nuts	**5YU97**	1
6 in Pipe Size, 6¾" Inside Width						
½"-13	2"	8⅜"	Plain	2 Nuts	**5YU98**	1
8 in Pipe Size, 8¾" Inside Width						
½"-13	2"	10⅜"	Plain	2 Nuts	**5YU99**	1

Thread Size	Thread Length	Inside Length	Finish	Includes	Item No.	Pkg. Qty.
Steel						
¼ in Pipe Size, 9/16" Inside Width						
¼"-20	¾"	1¼"	GALV	2 Nuts	**31KF54**	10
	¾"	1¼"	Zinc	2 Nuts	**32TG94**	10
⅜ in Pipe Size, ¾" Inside Width						
¼"-20	5/8"	1¼"	GALV	2 Nuts	**31KF55**	10
	5/8"	1¼"	Zinc	2 Nuts	**32TG95**	10
	5/8"	1¼"	Oxide	2 Nuts	**32TH50**	10
	1½"	2¼"	GALV	2 Nuts	**31KF56**	10
	1½"	2¼"	Zinc	2 Nuts	**32TG96**	10
	1½"	2¼"	Oxide	2 Nuts	**32TH51**	10
½ in Pipe Size, 7/8" Inside Width						
¼"-20	2½"	2 15/16"	—	4 Nuts	**32TH31**	5
½ in Pipe Size, 15/16" Inside Width						
⅜"-16	2⅜"	3"	—	4 Nuts	**32TH34**	5
½ in Pipe Size, 1" Inside Width						
¼"-20	¾"	1¾"	Zinc	2 Nuts	**3ZHA5**	10
	1"	1¾"	GALV	2 Nuts	**31KF57**	10
	1"	1¾"	Zinc	2 Nuts	**32TG97**	10
	1"	1¾"	Oxide	2 Nuts	**32TH52**	10
	1¼"	3¾"	GALV	2 Nuts	**31KF58**	10
5/16"-18	1⅜"	2 9/16"	Zinc	2 Nuts	**32TH05**	10
	1⅜"	2 9/16"	Oxide	2 Nuts	**32TH57**	10
⅜"-16	1¼"	2¼"	GALV	2 Nuts	**31KF76**	10
	1¼"	2¼"	Zinc	2 Nuts	**32TH16**	10
	1¼"	2¼"	Oxide	2 Nuts	**32TH64**	10
¾ in Pipe Size, 1⅛" Inside Width						
¼"-20	¾"	2"	Zinc	2 Nuts	**3ZHA6**	10
	1"	2"	GALV	2 Nuts	**31KF59**	10
	1"	2"	Zinc	2 Nuts	**32TG98**	10
	1"	2"	Oxide	2 Nuts	**32TH53**	10
	1½"	3⅛"	GALV	2 Nuts	**31KF60**	10
	2½"	3 9/16"	—	4 Nuts	**32TH32**	5
5/16"-18	1"	2 9/16"	GALV	2 Nuts	**31KF65**	10
⅜"-16	2⅜"	3 9/16"	—	4 Nuts	**32TH35**	5
¾ in Pipe Size, 1¼" Inside Width						
¼"-20	1¼"	2¼"	GALV	2 Nuts	**31KF61**	10
	1¼"	2¼"	Zinc	2 Nuts	**32TG99**	10
	1¼"	2¼"	GALV	2 Nuts	**31KF77**	10
⅜"-16	1¼"	2¼"	Zinc	2 Nuts	**32TH17**	10
	1¼"	2¼"	Oxide	2 Nuts	**32TH65**	10
1 in Pipe Size, 1⅜" Inside Width						
¼"-20	2⅜"	4"	Zinc	2 Nuts	**32TH02**	1
	2½"	3 9/16"	—	4 Nuts	**32TH33**	5
	1"	2 9/16"	Zinc	2 Nuts/Plate	**4P822**	10
	1"	2 9/16"	GALV	2 Nuts	**31KF67**	10
5/16"-18	1"	2 9/16"	Zinc	2 Nuts	**32TH07**	10
	2"	3 5/8"	GALV	2 Nuts	**31KF68**	10
	2"	3⅝"	Zinc	2 Nuts	**32TH08**	1
1 in Pipe Size, 1½" Inside Width						
¼"-20	1⅜"	2¾"	GALV	2 Nuts	**31KF62**	10
	1⅜"	2¾"	Zinc	2 Nuts	**32TH01**	10
	1⅜"	2¾"	Oxide	2 Nuts	**32TH54**	10
	1"	2 9/16"	Zinc	2 Nuts/Plate	**5YU60**	10
5/16"-18	1"	2 9/16"	GALV	2 Nuts	**31KF66**	10
	1"	2 9/16"	Zinc	2 Nuts	**32TH06**	10
	1"	2 9/16"	Oxide	2 Nuts	**32TH58**	10
	1¼"	2½"	Zinc	2 Nuts/Plate	**4P827**	10
⅜"-16	1¼"	2½"	GALV	2 Nuts	**31KF78**	10
	1¼"	2½"	Zinc	2 Nuts	**32TH18**	10
	1¼"	2½"	Oxide	2 Nuts	**32TH66**	10
1 ¼ in Pipe Size, 1¾" Inside Width						
¼"-20	1⅜"	3"	GALV	2 Nuts	**31KF63**	10
	1⅜"	3"	Zinc	2 Nuts	**32TH03**	1
	1⅜"	3"	Oxide	2 Nuts	**32TH55**	1
5/16"-18	1⅛"	2 11/16"	Zinc	2 Nuts/Plate	**4P823**	10
	1⅛"	2 11/16"	GALV	2 Nuts	**31KF69**	10
	1⅛"	2 11/16"	Zinc	2 Nuts	**32TH09**	1
	1⅛"	2 11/16"	Oxide	2 Nuts	**32TH60**	1
	2"	4½"	GALV	2 Nuts	**31KF70**	10
	2"	4½"	Zinc	2 Nuts	**32TH10**	1
⅜"-16	1⅛"	2¾"	Zinc	2 Nuts/Plate	**4P828**	10
	1⅛"	2¾"	GALV	2 Nuts	**31KF79**	10
	1⅛"	2¾"	Zinc	2 Nuts	**32TH19**	10
	1⅛"	2¾"	Oxide	2 Nuts	**32TH67**	10

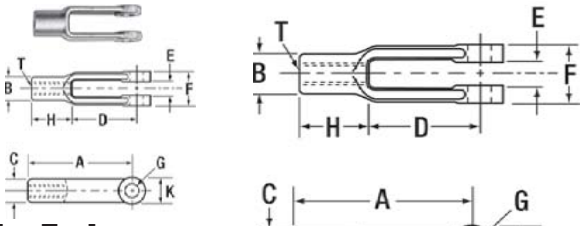
Thread Size	Thread Length	Inside Length	Finish	Includes	Item No.	Pkg. Qty.
1 ½ in Pipe Size, 2" Inside Width						
¼"-20	1⅜"	3¼"	GALV	2 Nuts	**31KF64**	10
	1⅜"	3¼"	Zinc	2 Nuts	**32TH04**	1
	1⅜"	3¼"	Oxide	2 Nuts	**32TH56**	1
5/16"-18	1"	2 11/16"	GALV	2 Nuts	**31KF71**	10
	1"	2 11/16"	Zinc	2 Nuts	**32TH11**	1
	1"	2 11/16"	Oxide	2 Nuts	**32TH61**	1
	3"	4¾"	GALV	2 Nuts	**31KF72**	10
	3"	4¾"	Zinc	2 Nuts	**32TH12**	1
⅜"-16	1¼"	2⅝"	Zinc	2 Nuts/Plate	**4P829**	10
	1¼"	2⅝"	GALV	2 Nuts	**31KF80**	10
	1¼"	2⅝"	Zinc	2 Nuts	**32TH20**	10
	1¼"	2⅝"	Oxide	2 Nuts	**32TH68**	10
2 in Pipe Size, 2½" Inside Width						
5/16"-18	1"	3 3/16"	GALV	2 Nuts	**31KF73**	10
	1"	3 3/16"	Zinc	2 Nuts	**32TH13**	1
	1"	3 3/16"	Oxide	2 Nuts	**32TH62**	1
	3"	5⅝"	GALV	2 Nuts	**31KF74**	10
	3"	5⅝"	Zinc	2 Nuts	**32TH14**	1
⅜"-16	1¼"	3⅛"	GALV	2 Nuts	**31KF81**	10
	1¼"	3⅛"	Zinc	2 Nuts	**32TH21**	10
	1¼"	3⅛"	Oxide	2 Nuts	**32TH69**	10
2 ½ in Pipe Size, 3" Inside Width						
5/16"-18	1"	3 11/16"	GALV	2 Nuts	**31KF75**	10
	1"	3 11/16"	Zinc	2 Nuts	**5YU39**	10
	1"	3 11/16"	Zinc	2 Nuts	**32TH15**	1
	1"	3 11/16"	Oxide	2 Nuts	**32TH63**	1
⅜"-16	1¼"	3⅝"	Zinc	2 Nuts/Plate	**4P831**	10
	1¼"	3⅝"	GALV	2 Nuts	**31KF82**	10
	1¼"	3⅝"	Zinc	2 Nuts	**32TH22**	1
	1¼"	3⅝"	Oxide	2 Nuts	**32TH70**	1
	3"	6⅝"	GALV	2 Nuts	**31KF83**	10
½"-13	1⅝"	4½"	GALV	2 Nuts	**31KF85**	5
	1⅝"	4½"	Zinc	2 Nuts	**3ZHC5**	10
	1⅝"	4½"	Zinc	2 Nuts	**32TH24**	1
	1⅝"	4½"	Oxide	2 Nuts	**32TH72**	1
3 in Pipe Size, 3½" Inside Width						
⅜"-16	1¼"	4⅛"	Zinc	2 Nuts/Plate	**5YU64**	10
	1¼"	4⅛"	GALV	2 Nuts	**31KF84**	10
	1¼"	4⅛"	Zinc	2 Nuts	**32TH23**	1
	1¼"	4⅛"	Oxide	2 Nuts	**32TH71**	1
½"-13	1½"	5"	GALV	2 Nuts	**31KF86**	5
	1½"	5"	Zinc	2 Nuts	**32TH25**	1
	1½"	5"	Oxide	2 Nuts	**32TH73**	1
	3"	8½"	GALV	2 Nuts	**31KF87**	5
3 ½ in Pipe Size, 4" Inside Width						
½"-13	1½"	5½"	GALV	2 Nuts	**31KF88**	5
	1½"	5½"	Zinc	2 Nuts	**3ZHC7**	10
	1½"	5½"	Zinc	2 Nuts	**32TH26**	1
	1½"	5½"	Oxide	2 Nuts	**32TH74**	1
4 in Pipe Size, 4½" Inside Width						
½"-13	1½"	6"	Zinc	2 Nuts/Plate	**5YU68**	1
	1½"	6"	GALV	4 Nuts	**31KF89**	5
	1½"	6"	Zinc	2 Nuts	**32TH27**	1
	1½"	6"	Oxide	2 Nuts	**32TH75**	1
5 in Pipe Size, 5⅝" Inside Width						
½"-13	2"	7¼"	GALV	2 Nuts	**31KF90**	5
	2"	7¼"	Zinc	2 Nuts	**32TH28**	1
	2"	7¼"	Oxide	2 Nuts	**32TH76**	1
6 in Pipe Size, 6¾" Inside Width						
½"-13	2"	8⅜"	GALV	2 Nuts	**31KF91**	5
	2"	8⅜"	Zinc	2 Nuts	**32TH29**	1
	2"	8⅜"	Oxide	2 Nuts	**32TH77**	1
8 in Pipe Size, 8¾" Inside Width						
½"-13	2"	10⅜"	GALV	2 Nuts	**31KF92**	5
	2"	10⅜"	Zinc	2 Nuts	**3ZHC8**	10
	2"	10⅜"	Zinc	2 Nuts	**32TH30**	1
	2"	10⅜"	Oxide	2 Nuts	**32TH78**	1



Extended-Length U-Bolts

- Include 4 nuts.

Material	Inside Length	Thread Length	Item No.	Pkg. Qty.
½ in Pipe Size				
304 SS Plain	2 15/16"	2½"	5ZA76	1
	3"	2⅜"	5ZA82	1
Low Carbon Steel Plain	2 15/16"	2½"	5YY86	5
Low Carbon Steel Zinc			5ZA36	5
Steel Galvanized	3"	2⅜"	31KF33	1
			31KF34	1
Steel Zinc	2 15/16"	2½"	32TG74	5
	3"	2⅜"	32TG77	5
¾ in Pipe Size				
304 SS Plain	3 3/16"	2½"	5ZA78	1
	3 5/16"	2⅜"	5ZA84	1
Low Carbon Steel Plain	3 3/16"	2½"	5YY88	5
Low Carbon Steel Zinc	3 5/16"	2⅜"	5ZA44	5
Steel Plain			32TH35	5
Steel Zinc	3 3/16"	2½"	32TG75	5
	3 5/16"	2⅜"	32TG78	5
1 in Pipe Size				
304 SS Plain	3 7/16"	2½"	5ZA80	1
		2⅜"	5ZA86	1
1 ¼ in Pipe Size				
304 SS Plain	3 23/32"	2⅜"	5ZA88	1
1 ½ in Pipe Size				
304 SS Plain	4"	2½"	5ZA90	1
1 in Pipe Size				
Low Carbon Steel Plain	3 7/16"	2½"	5YY90	5
Low Carbon Steel Zinc		2⅜"	5ZA46	5
Steel Galvanized			31KF35	1
1 ¼ in Pipe Size				
Steel Galvanized	3 23/32"	2⅜"	31KF36	1
1 ½ in Pipe Size				
Steel Galvanized	4"	2½"	31KF37	1
1 in Pipe Size				
Steel Plain	3 7/16"	2⅜"	32TH36	5
1 ¼ in Pipe Size				
Steel Plain	3 23/32"	2⅜"	32TH37	5
1 ½ in Pipe Size				
Steel Plain	4"	2½"	32TH38	5
1 in Pipe Size				
Steel Zinc	3 7/16"	2½"	32TG76	5
		2⅜"	32TG79	5
1 ¼ in Pipe Size				
Steel Zinc	3 23/32"	2⅜"	32TG80	5
1 ½ in Pipe Size				
Steel Zinc	4"	2½"	32TG81	5
2 in Pipe Size				
304 SS Plain	4 7/16"	2½"	5ZA92	1
2 ½ in Pipe Size				
304 SS Plain	5 7/32"	3"	5ZA94	1
Low Carbon Steel Zinc			5ZA54	5
2 in Pipe Size				
Steel Galvanized	4 7/16"	2½"	31KF38	1
2 ½ in Pipe Size				
Steel Galvanized	5 7/32"	3"	31KF39	1
2 in Pipe Size				
Steel Plain	4 7/16"	2½"	32TH39	5
2 ½ in Pipe Size				
Steel Plain	5 7/32"	3"	32TH40	5
2 in Pipe Size				
Steel Zinc	4 7/16"	2½"	32TG82	5
2 ½ in Pipe Size				
Steel Zinc	5 7/32"	3"	32TG83	5
3 in Pipe Size				
304 SS Plain	5¾"	3"	5ZA96	1
3 ½ in Pipe Size				
Low Carbon Steel Plain	6¼"	3"	5ZA18	5
Low Carbon Steel Zinc			5ZA58	5
3 in Pipe Size				
Steel Galvanized	5¾"	3"	31KF40	1
3 ½ in Pipe Size				
Steel Galvanized	6¼"	3"	31KF41	1
3 in Pipe Size				
Steel Plain	5¾"	3"	32TH41	5
3 ½ in Pipe Size				
Steel Plain	6¼"	3"	32TH42	5
3 in Pipe Size				
Steel Zinc	5¾"	3"	32TG84	5
3 ½ in Pipe Size				
Steel Zinc	6¼"	3"	32TG85	5
4 in Pipe Size				
304 SS Plain	6¾"	3"	5ZB10	1
Steel Galvanized			31KF42	1
Steel Plain			32TH43	5
Steel Zinc			32TG86	5
5 in Pipe Size				
304 SS Plain	7 13/16"	3"	5ZB12	1
Low Carbon Steel Plain			5ZA22	5
Low Carbon Steel Zinc			5ZA62	5
Steel Galvanized			31KF43	1
Steel Plain			32TH44	5
Steel Zinc			32TG87	5
6 in Pipe Size				
304 SS Plain	9½"	3¾"	5ZB14	1
Steel Galvanized			31KF44	1
Steel Plain			32TH45	1
Steel Zinc			32TG88	1
8 in Pipe Size				
304 SS Plain	11⅛"	3¾"	5ZB16	1
Steel Galvanized			31KF45	1
Steel Plain			32TH46	1
Steel Zinc			32TG89	1
10 in Pipe Size				
304 SS Plain	13 13/16"	4"	5ZB18	1
Low Carbon Steel Plain			5ZA28	1
Steel Plain			32TH47	1
Steel Zinc			32TG90	1
12 in Pipe Size				
304 SS Plain	16 1/16"	4¼"	5ZB20	1
Steel Plain			32TH48	1
Steel Zinc			32TG91	1
14 in Pipe Size				
304 SS Plain	17 5/16"	4¼"	5ZB22	1
Steel Plain			32TH49	1
Steel Zinc			32TG92	1
16 in Pipe Size				
Steel Zinc	19 5/16"	4¼"	32TG93	1



Yoke Ends

Constructed from drop-forged steel.

Tap Size	A	B	C	D	E	F	G	H	K	Item No.
¼"-28	2"	7/16"	7/16"	1¼"	9/32"	5/8"	¼"	¾"	½"	4TAE8
5/16"-24	2¼"	½"	½"	1 7/16"	11/32"	¾"	5/16"	13/16"	19/32"	4TAE9
⅜"-24	2½"	5/8"	5/8"	1⅝"	7/16"	⅞"	⅜"	⅞"	11/16"	4TAF1
½"-20	3"	13/16"	13/16"	1⅞"	9/16"	1⅛"	½"	1⅛"	15/16"	4TAF2
⅝"-18	4 15/16"	1 1/16"	1 1/16"	3 11/16"	11/16"	1⅜"	⅝"	1¼"	1 3/16"	4TAF3
¾"-16	6 1/16"	1¼"	1¼"	4 9/16"	13/16"	1⅝"	¾"	1½"	1 7/16"	4TAF4

GA GRAINGER APPROVED

KEN FORGING Forged Industrial Hardware



Oval Eye Nut



Round Eye Nut

Eye Nuts

Loads are based on a safety factor of 5-to-1.

Thread Size	Working Load Limit (lb.)	Overall Height	Thread Length	Eye I.D.	Material	Item No.
Oval						
GA						
¼-20	520	1 1/16"	⅜"	¾"	Steel Galvanized	2G768
	520	1 1/16"	⅜"	¾"	SS Plain	2G756
5/16-18	840	1 1/16"	⅜"	¾"	Steel Galvanized	2G770
	840	1 1/16"	⅜"	¾"	SS Plain	2G758
7/16-14	1700	2½"	⅝"	1¼"	Steel Galvanized	2G774
Ken Forging						
1 ½-6	35,600	6⅝"	2 7/32"	2½"	Steel Plain	3ZGV1
⅜-16	2700	2½"	⅝"	1¼"	Steel Plain	3ZHF3
	2700	2½"	⅝"	1¼"	304 SS Plain	3ZGZ2
½-13	2700	2½"	⅝"	1¼"	Steel Plain	3ZHF4
	2700	2½"	⅝"	1¼"	304 SS Plain	3ZGZ3
⅝-11	5000	3"	¾"	1½"	Steel Plain	3ZHF5
	5000	3"	¾"	1½"	304 SS Plain	3ZGZ4
¾-10	5000	3"	¾"	1½"	Steel Plain	3ZHF6
	5000	3"	¾"	1½"	304 SS Plain	3ZGZ5
⅞-9	10,000	5"	1"	2¼"	Steel Plain	3ZGL9
	14,400	3 31/32"	1 11/32"	1⅜"	Steel Plain	3JWX9
1-8	10,000	5"	1"	2¼"	Steel Plain	3ZGN1
	18,800	4 27/32"	1 11/16"	1¾"	Steel Plain	3ZGU8
1¼-7	29,400	6⅝"	2 7/32"	2½"	Steel Plain	3ZGU9
Round						
GA						
M6 x 1mm	154	36mm	8.5mm	20mm	Steel Zinc	1ZU24
M8 x 1.25mm	308	36mm	8.5mm	20mm	Steel Zinc	1ZU26
M10 x 1.50mm	506	45mm	10mm	25mm	Steel Zinc	1ZU28
	Not Rated	45mm	10mm	25mm	A2 SS Plain	1ZU42
M12 x 1.75mm	748	53mm	11mm	30mm	Steel Zinc	1ZU30
	—	53mm	11mm	30mm	A2 SS Plain	1ZU44
M16 x 2mm	1540	62mm	13mm	35mm	Steel Zinc	1ZU32
	Not Rated	62mm	13mm	35mm	A2 SS Plain	1ZU46
M20 x 2.50mm	2640	71mm	16mm	40mm	Steel Zinc	1ZU34
M30 x 3.50mm	7920	109mm	25mm	60mm	Steel Zinc	1ZU38

Square-Bend U-Bolts

- Include 2 washers and 2 nuts.

Inside Width	Inside Length	Thread Length	Item No.
304 SS Plain			
2"	3"	1½"	5YY62
	5"	3"	5YY64
	7"	3¾"	5YY66
4"	3"	1½"	5YY68
	4⅝"	3"	5YY70
	7"	3¾"	5YY72
6"	5"	3"	5YY74
	7"	3¾"	5YY76
	9"	5⅝"	5YY78
8"	5"	3"	5YY80
	6⅝"	3¾"	5YY82
	9"	5⅝"	5YY84
Steel Hot Dipped Galvanized			
2"	2⅝"	1½"	20W576
	3"	1½"	31KG05
	4⅝"	3"	20W577
	5"	3"	31KG06
	6⅝"	3¾"	20W578
	7"	3¾"	31KG07
4"	2⅝"	1½"	20W579
	3"	1½"	31KG08
	4⅝"	3"	20W580
	5"	3"	31KG09
	6⅝"	3¾"	20W581
	7"	3¾"	31KG10



Inside Width	Inside Length	Thread Length	Item No.
	4⅜"	3"	20W582
6"	5"	3"	31KG11
	6⅜"	3¾"	20W583
	7"	3¾"	31KG12
	8⅜"	5⅝"	20W584
	9"	5⅝"	31KG13
Steel Zinc			
2"	3"	1½"	5YY38
	3"	1½"	31KG02
	4⅜"	3"	5YY40
	5"	3"	31KG03
	6⅜"	3¾"	5YY42
3"	7"	3¾"	31KG04
4"	3"	1½"	5YY44
	5"	3"	5YY46
	7"	3¾"	5YY48
6"	5"	3"	5YY50
	7"	3¾"	5YY52
	9"	5⅝"	5YY54
8"	4⅜"	3"	5YY56
	7"	3¾"	5YY58
	9"	5⅝"	5YY60

KEN FORGING
Forged Industrial Hardware
FABORY

Machinery Eyebolts


With Shoulder


Without Shoulder

Drop-forged carbon steel is heat-treated after forging. Angular lifts will significantly lower working load limits and should be avoided. Loads are based on a safety factor of 5 to 1.

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Finish	WITH SHOULDER Item No.	WITHOUT SHOULDER Item No.
Stainless Steel, Ken Forging							
1/4"-20	1"	3/4"	1 3/16"	500 lb.	Plain	19L121	19L129
	1 1/2"	3/4"	1 3/16"	500 lb.	Plain	19L137	—
	2"	3/4"	1 3/16"	500 lb.	Plain	19L138	—
	3"	3/4"	1 3/16"	500 lb.	Plain	19L139	—
	4"	3/4"	1 3/16"	500 lb.	Plain	19L140	—
5/16"-18	1 1/8"	7/8"	1 7/16"	900 lb.	Plain	19L122	19L130
	1 1/2"	7/8"	1 7/16"	900 lb.	Plain	19L141	—
	2"	7/8"	1 7/16"	900 lb.	Plain	19L142	—
	3"	7/8"	1 7/16"	900 lb.	Plain	19L143	—
	4"	7/8"	1 7/16"	900 lb.	Plain	19L144	—
3/8"-16	1 1/4"	1"	1 21/32"	1300 lb.	Plain	19L123	19L131
	2 1/2"	1"	1 21/32"	1300 lb.	Plain	19L145	—
	3"	1"	1 21/32"	1300 lb.	Plain	19L146	19L157
	4"	1"	1 21/32"	1300 lb.	Plain	19L147	—
	6"	1"	1 21/32"	1300 lb.	Plain	—	19L158
1/2"-13	1 1/2"	1 3/16"	2 1/16"	2400 lb.	Plain	19L124	19L132
	2 1/2"	1 3/16"	2 1/16"	2400 lb.	Plain	19L148	—
	2 1/2"	1 3/16"	2 1/16"	2400 lb.	Plain	19L163	—
	3"	1 3/16"	2 1/16"	2400 lb.	Plain	19L149	19L159
	3"	1 3/16"	2 1/16"	2400 lb.	Plain	19L164	—
	3 1/4"	1"	2"	2200 lb.	Plain	19L199	—
	4"	1 3/16"	2 1/16"	2400 lb.	Plain	19L150	—
	6"	1 3/16"	2 1/16"	2400 lb.	Plain	—	19L160
5/8"-11	1 3/4"	1 3/8"	2 1/2"	4000 lb.	Plain	19L125	19L133
	2 1/2"	1 3/8"	2 1/2"	4000 lb.	Plain	19L151	—
	3"	1 3/8"	2 1/2"	4000 lb.	Plain	19L152	—
	4"	1 3/8"	2 1/2"	4000 lb.	Plain	19L153	—
3/4"-10	2"	1 1/2"	2 13/16"	5000 lb.	Plain	19L126	19L134
	2 1/2"	1 1/2"	2 13/16"	5000 lb.	Plain	19L154	—
	3"	1 1/2"	2 13/16"	5000 lb.	Plain	19L155	—
	4"	1 1/2"	2 13/16"	5000 lb.	Plain	19L156	—
	12"	1 1/2"	2 13/16"	5200 lb.	Plain	19L206	—
1"-8	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Plain	19L127	—
1 1/4"-7	3"	2 13/16"	4 7/16"	15,000 lb.	Plain	19L128	—
1 1/2"-6	6"	2 1/2"	5 3/16"	2000 lb.	Plain	19L213	—
Steel, Fabory							
1/4"-20	1"	3/4"	1 3/16"	500 lb.	Plain	35Z446	35Z441
	1"	3/4"	1 3/16"	500 lb.	Zinc	35Z445	35Z451
5/16"-18	1 1/8"	7/8"	1 7/16"	900 lb.	Plain	35Z449	—
	1 1/8"	7/8"	1 7/16"	900 lb.	Zinc	35Z462	—
3/8"-16	5/8"	1"	1 11/16"	—	Plain	35Z452	—
	3/4"	1"	1 11/16"	1300 lb.	Plain	35Z450	—
	1 1/4"	1"	1 11/16"	1300 lb.	Plain	35Z444	—
	1 1/4"	1"	1 5/8"	—	Plain	—	35Z448
	1 1/4"	1"	1 11/16"	—	Zinc	35Z458	—
	2 1/2"	1"	1 11/16"	—	Plain	35Z471	35Z453
	2 1/2"	1"	1 11/16"	—	Zinc	35Z469	—
	2 1/2"	1"	1 11/16"	—	Zinc	—	35Z481
	3"	1"	1 11/16"	—	Plain	35Z488	35Z460
	3"	1"	1 11/16"	1300 lb.	Zinc	35Z511	—
	3"	1"	1 11/16"	—	Zinc	—	35Z527
7/16"-14	1 3/8"	1 3/32"	1 27/32"	—	Plain	35Z482	—
1/2"-13	1"	1 3/16"	2 1/16"	2400 lb.	Plain	35Z473	—
	1 1/2"	1 3/16"	2 1/16"	2400 lb.	Plain	35Z486	35Z466
	1 1/2"	1 3/16"	2 1/16"	2400 lb.	Zinc	35Z472	35Z491
	2 1/2"	1 3/16"	2 1/16"	2400 lb.	Plain	35Z480	35Z468
	2 1/2"	1 3/16"	2 1/16"	2400 lb.	Zinc	35Z502	35Z513
	3"	1 3/16"	2 1/16"	2400 lb.	Plain	35Z497	35Z485
	3"	1 3/16"	2 1/16"	2400 lb.	Zinc	35Z499	35Z490
5/8"-11	1 1/4"	1 3/8"	2 1/2"	4000 lb.	Plain	35Z520	—
	1 3/4"	1 3/8"	2 1/2"	4000 lb.	Plain	35Z495	35Z504
	1 3/4"	1 3/8"	2 1/2"	4000 lb.	Zinc	35Z506	—
	2 1/2"	1 3/8"	2 1/2"	4000 lb.	Zinc	35Z516	—
	2 1/2"	1 3/8"	2 1/2"	4000 lb.	Plain	35Z536	35Z545
	3"	1 3/8"	2 1/2"	4000 lb.	Zinc	35Z517	35Z483
	3"	1 3/8"	2 1/2"	4000 lb.	Plain	35Z522	35Z548
3/4"-10	1 1/4"	1 1/2"	2 13/16"	5000 lb.	Plain	35Z524	—
	1 1/2"	1 1/2"	2 13/16"	5000 lb.	Plain	35Z518	—
	2"	1 1/2"	2 13/16"	5000 lb.	Plain	35Z492	35Z484
	2"	1 1/2"	2 13/16"	5000 lb.	Zinc	35Z515	—
	2 1/2"	1 1/2"	2 13/16"	5000 lb.	Plain	35Z531	35Z509
	2 1/2"	1 1/2"	2 13/16"	5000 lb.	Zinc	35Z555	—
	3"	1 1/2"	2 13/16"	5000 lb.	Plain	35Z519	35Z546
	3"	1 1/2"	2 13/16"	5000 lb.	Zinc	35Z528	35Z562
7/8"-9	2 1/4"	1 11/16"	3 1/4"	7000 lb.	Plain	35Z525	—
	2 1/4"	1 11/16"	3 1/4"	7000 lb.	Zinc	35Z538	—
1"-8	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Plain	35Z501	—
	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Zinc	35Z532	—
M6 x 1.00	25.7mm	19.0mm	30.0mm	210kg	Plain	35Z470	—
M8 x 1.25	31.7mm	25.0mm	43.0mm	500kg	Plain	35Z465	—

Note: Stainless steel also available; on Grainger.com®, search for "stainless steel machinery eyebolts".

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Finish	WITH SHOULDER Item No.	WITHOUT SHOULDER Item No.
M10 x 1.50	35.0mm	27.0mm	46.0mm	1628 lb.	Plain	35Z456	—
M12 x 1.75	38.0mm	30.0mm	54.0mm	1,030kg	Plain	35Z494	—
M16 x 2.00	44.8mm	35.0mm	65.0mm	1600kg	Plain	35Z510	—
M18 x 2.50	51.5mm	38.0mm	71.5mm	2,140kg	Plain	35Z540	—
M20 x 2.50	57.5mm	41.0mm	81.0mm	2860kg	Plain	35Z526	—
M22 x 2.50	63.5mm	46.0mm	90.4mm	2860kg	Plain	35Z554	—
M24 x 3.00	63.5mm	46.0mm	90.4mm	3850kg	Plain	35Z539	—
Steel, Ken Forging							
1/4"-20	1"	3/4"	1 3/16"	500 lb.	Plain	3ZGW8	—
	4"	3/4"	1 3/16"	500 lb.	Plain	19L044	—
5/16"-18	1 1/8"	7/8"	1 7/16"	900 lb.	Plain	—	3XTE6
	1 1/8"	7/8"	1 7/16"	900 lb.	Zinc	—	3ZGN9
3/8"-16	4"	7/8"	1 7/16"	900 lb.	Plain	19L045	—
	3/4"	1"	1 21/32"	1300 lb.	Galvanized	19L078	—
	1 1/4"	1"	1 21/32"	1300 lb.	Zinc	—	3ZGP1
	1 1/4"	1"	1 21/32"	1300 lb.	Galvanized	19L077	19L093
	1 1/4"	1"	1 21/32"	1480 lb.	Plain	19L106	19L115
	3"	1"	1 21/32"	1300 lb.	Zinc	—	3ZGP3
	4"	1"	1 21/32"	1300 lb.	Plain	19L046	—
	4 1/2"	1"	1 21/32"	1300 lb.	Zinc	19L067	19L068
	6"	1"	1 21/32"	1300 lb.	Plain	19L047	19L056
7/16"-14	1 3/8"	1 3/32"	1 27/32"	1800 lb.	Plain	—	3XTF1
	1 3/8"	1 3/32"	1 27/32"	1800 lb.	Zinc	3ZHD5	3ZGP4
	6"	1 3/32"	1 27/32"	1800 lb.	Plain	19L048	—
1/2"-13	1"	1 3/16"	2 1/16"	2400 lb.	Galvanized	19L080	—
	1 1/2"	1 3/16"	2 1/16"	2400 lb.	Zinc	—	3ZGP5
	1 1/2"	1 3/16"	2 1/16"	2400 lb.	Galvanized	19L079	19L094
	1 1/2"	1 3/16"	2 1/16"	2700 lb.	Plain	19L107	19L116
	2 1/2"	1 3/16"	2 1/16"	2400 lb.	Zinc	—	3ZGP6
	3"	1 3/16"	2 1/16"	2400 lb.	Zinc	—	3ZGP7
	4"	1 3/16"	2 1/16"	2400 lb.	Plain	19L049	—
	4"	1 3/16"	2 1/16"	2400 lb.	Zinc	19L069	19L070
	4 1/2"	1 3/16"	2 1/16"	2400 lb.	Zinc	19L071	19L072
	6"	1 3/16"	2 1/16"	2400 lb.	Plain	19L050	19L057
9/16"-12	1 5/8"	1 9/32"	2 9/32"	3000 lb.	Plain	3ZGX8	3XTF5
	1 5/8"	1 9/32"	2 9/32"	3000 lb.	Zinc	3ZHD9	—
5/8"-11	1 1/4"	1 3/8"	2 1/2"	4000 lb.	Galvanized	19L082	—
	1 3/4"	1 3/8"	2 1/2"	4000 lb.	Zinc	—	3ZGP9
	1 3/4"	1 3/8"	2 1/2"	4000 lb.	Galvanized	19L081	19L095
	1 3/4"	1 3/8"	2 1/2"	4300 lb.	Plain	19L108	19L117
	2 1/2"	1 3/8"	2 1/2"	4000 lb.	Zinc	—	3ZGR1
	3"	1 3/8"	2 1/2"	4000 lb.	Zinc	—	3ZGR2
	4"	1 3/8"	2 1/2"	4000 lb.	Plain	19L051	—
	4"	1 3/8"	2 1/2"	4000 lb.	Zinc	19L073	19L074
	4 1/2"	1 3/8"	2 1/2"	4000 lb.	Zinc	19L075	19L076
	6"	1 3/8"	2 1/2"	4000 lb.	Plain	19L052	19L058
3/4"-10	1 1/2"	1 1/2"	2 13/16"	5000 lb.	Galvanized	19L084	—
	2"	1 1/2"	2 13/16"	5000 lb.	Zinc	—	3ZGR3
	2"	1 1/2"	2 13/16"	5000 lb.	Galvanized	19L083	19L096
	2"	1 1/2"	2 13/16"	6400 lb.	Plain	19L109	19L118
	2 1/2"	1 1/2"	2 13/16"	5000 lb.	Zinc	—	3ZGR4
	4"	1 1/2"	2 13/16"	5000 lb.	Plain	19L053	—
	6"	1 1/2"	1 1/2"	5000 lb.	Plain	19L054	—
	6"	1 1/2"	2 13/16"	5000 lb.	Plain	—	19L059
7/8"-9	2 1/4"	1 11/16"	3 1/4"	7000 lb.	Plain	—	3XTG3
	2 1/4"	1 11/16"	3 1/4"	7000 lb.	Zinc	—	3ZGR6
	2 1/4"	1 11/16"	3 1/4"	7000 lb.	Galvanized	19L085	19L097
	2 1/4"	1 11/16"	3 1/4"	8800 lb.	Plain	19L110	19L119
	6"	1 11/16"	3 1/4"	7000 lb.	Plain	—	19L060
1"-8	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Plain	—	3XTG4
	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Zinc	—	3ZGR7
	2 1/2"	1 13/16"	3 9/16"	9000 lb.	Galvanized	19L086	19L098
	2 1/2"	1 13/16"	3 9/16"	11,600 lb.	Plain	—	19L120
	6"	1 13/16"	3 9/16"	9000 lb.	Plain	19L055	—
1 1/8"-7	2 3/4"	2"	4"	12,000 lb.	Plain	3ZGY8	3XTG5
	2 3/4"	2"	4"	12,000 lb.	Zinc	3ZHE9	—
	2 3/4"	2"	4"	12,000 lb.	Galvanized	19L087	19L099
1 1/4"-7	3"	2 3/16"	4 7/16"	15,000 lb.	Plain	3ZGY9	3XTG6
	3"	2 3/16"	4 7/16"	15,000 lb.	Zinc	3ZHF1	3ZGR9
	3"	2 3/16"	4 7/16"	15,000 lb.	Galvanized	19L088	19L101
	3"	2 3/16"	4 7/16"	18,400 lb.	Plain	19L112	—
1 1/2"-6	3 1/2"	2 1/2"	5 3/16"	21,000 lb.	Plain	3ZGZ1	3XTG7
	3 1/2"	2 1/2"	5 3/16"	21,000 lb.	Zinc	3ZHF2	3ZGT1
	3 1/2"	2 1/2"	5 3/16"	21,000 lb.	Galvanized	19L089	—
1 3/4"-5	3 3/4"	2 7/8"	6 1/16"	28,000 lb.	Plain	3JWP4	—
	3 3/4"	2 7/8"	6 1/16"	28,000 lb.	Zinc	19L061	—
	3 3/4"	2 7/8"	6 1/16"	28,000 lb.	Galvanized	19L090	—
2-4-1/2	4"	3 1/4"	6 7/8"	38,000 lb.	Plain	3JWP5	—
	4"	3 1/4"	6 7/8"	38,000 lb.	Galvanized	19L091	19L104
2 1/2"-4	5"	4"	8 9/16"	56,000 lb.	Plain	3JWP6	—
M7 x 1.00	28.5mm	22.0mm	36.5mm	370kg	Plain	3XTA9	—
M14 x 2.00	41.1mm	33.0mm	58.0mm	1600kg	Plain	3XTD4	—
M24 x 3.00	63.5mm	46.0mm	90.4mm	3850kg	Plain	3JWX3	—
M30 x 3.50	76.0mm	55.0mm	112.7mm	6400kg	Plain	3XTE1	—
M36 x 4.00	89.0mm	63.0mm	131.8mm	8,970kg	Plain	3XTE2	—
M42 x 4.50	95.0mm	73.0mm	152.4mm	11,960kg	Plain	3JWX4	—
M45 x 4.50	95.0mm	73.0mm	152.4mm	12,720kg	Plain	3JWX5	—
M48 x 5.00	101.6mm	82.0mm	174.6mm	16,400kg	Plain	3JWX6	—
M52 x 5.00	101.6mm	82.0mm	174.6mm	16,400kg	Plain	3JWX7	—
M64 x 6.00	127.0mm	102.0mm	217.5mm	24,458kg	Plain	3JWX8	—



Metric Lifting Eyebolts

For vertical lifting only.

Note: Eyebolts must always be tightened flush against bearing surface.

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Item No.	Pkg. Qty.
Steel						
M5x5.0	68.0mm	90.0mm	168.0mm	8600kg	38C902	1
M6 x 1.00	13.0mm	20.0mm	36.0mm	70kg	1ZU48	3
M8 x 1.25	13.0mm	20.0mm	36.0mm	140kg	35Z542	3
M10 x 1.50	17.0mm	25.0mm	45.0mm	230kg	35Z552	3
M12 x 1.75	20.5mm	30.0mm	54.0mm	339kg	35Z521	2
M16 x 2.00	27.0mm	35.0mm	63.0mm	—	35Z547	2

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Item No.	Pkg. Qty.
M20 x 2.50	30.0mm	40.0mm	72.0mm	1197kg	35Z505	1
M24 x 3.00	36.0mm	50.0mm	90.0mm	1796kg	35Z512	1
M30 x 3.50	45.0mm	60.0mm	108.0mm	—	35Z507	1
M36 x 4.00	54.0mm	70.0mm	126.0mm	4600kg	35Z498	1
M42x4.50	63.0mm	80.0mm	147.0mm	6300kg	38C901	1
M64 x 6.0	90.0mm	110.0mm	208.0mm	16,000kg	38C903	1
Stainless Steel						
M8 x 1.25	13.0mm	20.0mm	36.0mm	140kg	35Z478	1
M10 x 1.50	17.0mm	25.0mm	45.0mm	506 lb.	1ZU68	1
M12 x 1.75	20.5mm	30.0mm	54.0mm	339kg	35Z479	1
M16 x 2.00	27.0mm	35.0mm	63.0mm	1540 lb.	1ZU72	1
M20 x 2.50	30.0mm	40.0mm	72.0mm	2640 lb.	1ZU74	1

Turned Wire Eyebolts



Supplied with UNC rolled machine threads and one hex nut.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
1010 Steel							
Zinc Finish							
¼"-20	2.00"	⅞"	1"	½"	15⁄16"	**4P802**	10
Stainless Steel							
Plain Finish							
#6-32	1.25"	5⁄8"	¾"	¼"	31⁄64"	**5ZU60**	10
#8-32	1.69"	1"	1⅛"	¼"	17⁄32"	**5ZU61**	10
10-24	1.69"	⅞"	1"	3⁄8"	11⁄16"	**5ZU62**	10
	2.00"	—	1⅜"	5⁄16"	11⁄16"	**5ZU63**	10
	2.69"	1"	2"	3⁄8"	11⁄16"	**5ZU64**	10
	3.69"	1½"	3"	3⁄8"	11⁄16"	**5ZU65**	10
¼"-20	2.00"	⅞"	1"	½"	15⁄16"	**5ZU66**	10
	2.50"	1¼"	1½"	½"	15⁄16"	**5ZU67**	10
	3.00"	1¼"	2"	½"	15⁄16"	**5ZU68**	10
	3.50"	1¼"	2½"	½"	15⁄16"	**5ZU69**	10
	4.00"	1½"	3"	½"	15⁄16"	**5ZU70**	10
	5.00"	2½"	4"	½"	15⁄16"	**5ZU71**	10
	6.00"	3"	5"	½"	15⁄16"	**5ZU72**	5
	7.00"	4"	6"	½"	15⁄16"	**5ZU73**	5
5⁄16"-18	2.13"	⅞"	1"	5⁄8"	11⁄64"	**5ZU74**	5
	3.13"	1¼"	2"	5⁄8"	11⁄64"	**5ZU75**	5
	4.13"	1½"	3"	5⁄8"	11⁄64"	**5ZU76**	5
	5.13"	2½"	4"	5⁄8"	11⁄64"	**5ZU77**	5
3⁄8"-16	2.50"	⅞"	1"	¾"	13⁄32"	**5ZU78**	1
	3.50"	1¼"	2"	¾"	13⁄32"	**5ZU79**	1
	4.00"	1½"	2½"	¾"	13⁄32"	**5ZU80**	1
	4.50"	1½"	3"	¾"	13⁄32"	**5ZU81**	1
	5.50"	2½"	4"	¾"	13⁄32"	**5ZU82**	1
	6.50"	3"	5"	¾"	13⁄32"	**5ZU83**	1
	7.50"	3¾"	6"	¾"	13⁄32"	**5ZU84**	1
½"-13	4.00"	1½"	2"	1"	1⅞"	**5ZU85**	1
	6.00"	2½"	4"	1"	1⅞"	**5ZU86**	1
	8.00"	4"	6"	1"	1⅞"	**5ZU87**	1
Steel							
Black Oxide Finish							
#6-32	1.25"	5⁄8"	¾"	¼"	31⁄64"	**5ZU22**	10
#8-32	1.69"	1"	1⅛"	¼"	17⁄32"	**5ZU23**	10
10-24	1.69"	⅞"	1"	3⁄8"	11⁄16"	**5ZU24**	10
	2.00"	1¼"	1⅜"	5⁄16"	11⁄16"	**5ZU25**	10
	2.69"	1"	2"	3⁄8"	11⁄16"	**5ZU26**	10
	3.69"	1½"	3"	3⁄8"	11⁄16"	**5ZU27**	10
¼"-20	2.00"	⅞"	1"	½"	15⁄16"	**5ZU28**	10
	2.50"	1¼"	1½"	½"	15⁄16"	**5ZU29**	10
	3.00"	1¼"	2"	½"	15⁄16"	**5ZU30**	10
	3.50"	1¼"	2½"	½"	15⁄16"	**5ZU31**	10
	4.00"	1½"	3"	½"	15⁄16"	**5ZU32**	10
	5.00"	2½"	4"	½"	15⁄16"	**5ZU33**	10
	6.00"	3"	5"	½"	15⁄16"	**5ZU34**	10
	7.00"	4"	6"	½"	15⁄16"	**5ZU35**	10
5⁄16"-18	2.13"	⅞"	1"	5⁄8"	11⁄64"	**5ZU36**	10
	3.13"	1¼"	2"	5⁄8"	11⁄64"	**5ZU37**	10
	4.13"	1½"	3"	5⁄8"	11⁄64"	**5ZU38**	10
	5.13"	2½"	4"	5⁄8"	11⁄64"	**5ZU39**	10
3⁄8"-16	2.50"	⅞"	1"	¾"	13⁄32"	**5ZU40**	10
	3.50"	1¼"	2"	¾"	13⁄32"	**5ZU41**	10
	4.00"	1½"	2½"	¾"	13⁄32"	**5ZU42**	10
	4.50"	1½"	3"	¾"	13⁄32"	**5ZU46**	10
	5.50"	2½"	4"	¾"	13⁄32"	**5ZU47**	10
	6.50"	3"	5"	¾"	13⁄32"	**5ZU48**	10
	7.50"	3¾"	6"	¾"	13⁄32"	**5ZU49**	10
½"-13	8.56"	2½"	7⅜"	½"	15⁄32"	**5ZU43**	1
	10.69"	2½"	9⅜"	½"	15⁄32"	**5ZU44**	1
	12.56"	2½"	11⅜"	½"	15⁄32"	**5ZU45**	1
	4.00"	1½"	2"	1"	1⅞"	**5ZU50**	1
	6.00"	2½"	4"	1"	1⅞"	**5ZU54**	1
½"-13	8.00"	4"	6"	1"	1⅞"	**5ZU55**	1
	8.81"	2½"	7 9⁄16"	5⁄8"	1 33⁄64"	**5ZU51**	1
	10.81"	2½"	9 3⁄16"	5⁄8"	1 33⁄64"	**5ZU52**	1
5⁄8"-11	8.31"	2½"	7"	¾"	1⅞"	**5ZU56**	1
	9"	3"	6 15⁄16"	⅞"	2⅜"	**5ZU57**	1
¾"-10	11.00"	3"	8 15⁄16"	⅞"	2⅜"	**5ZU58**	1
	14.00"	3"	11 15⁄16"	⅞"	2⅜"	**5ZU59**	1
Zinc Finish							
#6-32	1.25"	5⁄8"	¾"	¼"	31⁄64"	**5ZE79**	10
#8-32	1.69"	1"	1⅛"	¼"	17⁄32"	**5ZE80**	10
10-24	1.69"	⅞"	1"	3⁄8"	11⁄16"	**5ZE81**	10
	2.00"	1¼"	1⅜"	5⁄16"	11⁄16"	**5ZE82**	10
	2.69"	1"	2"	3⁄8"	11⁄16"	**5ZE83**	10
	3.69"	1½"	3"	3⁄8"	11⁄16"	**5ZE84**	10
¼"-20	2.00"	⅞"	1"	½"	15⁄16"	**35Z487**	10
	2.50"	1¼"	1½"	½"	15⁄16"	**35Z523**	10
	2.50"	1¼"	1½"	½"	15⁄16"	**5ZE85**	10
	3.00"	1¼"	2"	½"	15⁄16"	**35Z508**	10
	3.00"	1¼"	2"	½"	15⁄16"	**4P803**	10
	3.50"	1¼"	2½"	½"	15⁄16"	**5ZE86**	10
	4.00"	1½"	3"	½"	15⁄16"	**35Z534**	10
	4.00"	1½"	3"	½"	15⁄16"	**4P804**	10
	5.00"	2½"	4"	½"	15⁄16"	**35Z544**	10
	5.00"	2½"	4"	½"	15⁄16"	**5ZE87**	10
	6.00"	3"	5"	½"	15⁄16"	**35Z551**	10
	6.00"	3"	5"	½"	15⁄16"	**4P805**	10
	7.00"	4"	6"	½"	15⁄16"	**5ZE88**	10
5⁄16"-18	2.13"	⅞"	1"	5⁄8"	11⁄64"	**35Z454**	10
	2.13"	⅞"	1"	5⁄8"	11⁄64"	**5ZE89**	10
	3.13"	1¼"	2"	5⁄8"	11⁄64"	**35Z530**	10
	3.13"	1¼"	2"	5⁄8"	11⁄64"	**5ZE90**	10
	4.13"	1½"	3"	5⁄8"	11⁄64"	**35Z549**	10
	4.13"	1½"	3"	5⁄8"	11⁄64"	**5ZE91**	10
	5.13"	2½"	4"	5⁄8"	11⁄64"	**35Z553**	10
	5.13"	2½"	4"	5⁄8"	11⁄64"	**5ZE92**	10
3⁄8"-16	2.50"	⅞"	1"	¾"	13⁄32"	**35Z514**	10
	2.50"	⅞"	1"	¾"	13⁄32"	**5ZE93**	10
	3.50"	1¼"	2"	¾"	13⁄32"	**35Z543**	10
	3.50"	1¼"	2"	¾"	13⁄32"	**4P806**	10
	4.00"	1½"	2½"	¾"	13⁄32"	**35Z529**	10
	4.00"	1½"	2½"	¾"	13⁄32"	**5ZE94**	10
	4.50"	1½"	3"	¾"	13⁄32"	**35Z556**	10
	4.50"	1½"	3"	¾"	13⁄32"	**5ZE98**	10
	5.50"	2½"	4"	¾"	13⁄32"	**35Z559**	10
	5.50"	2½"	4"	¾"	13⁄32"	**4P807**	10
	6.50"	3"	5"	¾"	13⁄32"	**35Z535**	10
	6.50"	3"	5"	¾"	13⁄32"	**5ZU10**	10
	7.50"	3¾"	6"	¾"	13⁄32"	**35Z561**	10
	7.50"	4"	6"	¾"	13⁄32"	**5ZU11**	10
	8.56"	2½"	7⅜"	½"	15⁄32"	**5ZE95**	1
	10.69"	2½"	9⅜"	½"	15⁄32"	**5ZE96**	1
	12.56"	2½"	11⅜"	½"	15⁄32"	**5ZE97**	1
½"-13	4.00"	1½"	2"	1"	1⅞"	**35Z560**	10
	4.00"	1½"	2"	1"	1⅞"	**5ZU12**	10
	6.00"	2½"	4"	1"	1⅞"	**35Z443**	1
	6.00"	2½"	4"	1"	1⅞"	**5ZU16**	1
	8.00"	4"	6"	1"	1⅞"	**35Z439**	1
	8.00"	4"	6"	1"	1⅞"	**5ZU17**	1
	8.81"	2½"	7 9⁄16"	5⁄8"	1 33⁄64"	**5ZU13**	1
	10.81"	2½"	9 3⁄16"	5⁄8"	1 33⁄64"	**5ZU14**	1
	12.81"	2½"	11 3⁄16"	5⁄8"	1 33⁄64"	**35Z455**	1
5⁄8"-11	8.31"	2½"	7"	¾"	1⅞"	**5ZU18**	1
	9"	3"	6 15⁄16"	⅞"	2⅜"	**5ZU19**	1
¾"-10	11.00"	3"	8 15⁄16"	⅞"	2⅜"	**5ZU20**	1
	14.00"	3"	11 15⁄16"	⅞"	2⅜"	**5ZU21**	1



Wood Screw Eyebolts

Wood screw thread and gimlet point.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
Steel							
Zinc Finish							
¼"-10	3.69"	2"	2¾"	½"	15⁄16"	**35Z533**	10
	4.88"	2"	4"	½"	15⁄16"	**35Z558**	10
3⁄8"-7	4.38"	2½"	3"	¾"	1 13⁄32"	**35Z541**	10
	7.31"	2½"	6"	¾"	1 13⁄32"	**35Z537**	10
5⁄16"	5.81"	2"	4¾"	5⁄8"	1 11⁄64"	**5ZU97**	10
5⁄16"-9	3.88"	2"	2¾"	5⁄8"	1 11⁄64"	**35Z557**	10



Welded Eyebolts

Include UNC nut and 2 washers.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
Stainless Steel							
High Polish Finish							
10-24	3.00"	1½"	2"	13⁄32"	23⁄32"	**5LAD3**	1
	4.00"	2"	3"	13⁄32"	23⁄32"	**5LAD4**	1
¼"-20	3.19"	1½"	2"	15⁄32"	29⁄32"	**5LAD5**	1
	4.25"	2"	3"	15⁄32"	29⁄32"	**5LAD6**	1
	5.19"	2"	4"	15⁄32"	29⁄32"	**5LAD7**	1
	6.31"	2"	5"	15⁄32"	29⁄32"	**5LAD8**	1
	7.00"	2"	6"	15⁄32"	29⁄32"	**5LAD9**	1
5⁄16"-18	4.38"	2"	3"	½"	1 1⁄16"	**5LAE0**	1
	5.33"	2"	4"	½"	1 1⁄16"	**5LAE1**	1
	6.38"	2"	5"	½"	1 1⁄16"	**5LAE2**	1
	7.38"	2"	6"	½"	1 1⁄16"	**5LAE3**	1
3⁄8"-16	4.50"	2"	3"	21⁄32"	1 11⁄32"	**5LAE4**	1
	5.50"	2"	4"	21⁄32"	1 11⁄32"	**5LAE5**	1
	6.63"	2"	5"	21⁄32"	1 11⁄32"	**5LAE6**	1
	7.63"	2"	6"	21⁄32"	1 11⁄32"	**5LAE7**	1

FIND MORE ONLINE

Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!



KEN FORGING Forged Industrial Hardware

GA GRAINGER APPROVED

Forged Machined Rod Ends

Thread Size	Shank Dia.	Hole I.D.	Length	Boss Dia.	Boss Thickness	304 SS Item No.	4140 Item No.	C1035 Item No.
Ken Forging								
¼"-20	¼"	¼"	6"	39⁄64"	¼"	**19L385**	**19L356**	**19L327**
			1½"	39⁄64"	¼"	**19L383**	**19L354**	**19L325**
			3½"	39⁄64"	¼"	**19L384**	**19L355**	**19L326**
¼"-28			3½"	39⁄64"	¼"	**19L409**	**19L379**	**19L350**
5⁄16"-18	5⁄16"	5⁄16"	6"	43⁄64"	5⁄16"	**19L388**	**19L359**	**19L330**
			1½"	39⁄64"	5⁄16"	**19L386**	**19L357**	**19L328**
			3½"	43⁄64"	5⁄16"	**19L387**	**19L358**	**19L329**
3⁄8"-16	3⁄8"	3⁄8"	5"	13⁄16"	3⁄8"	**19L391**	**19L362**	**19L333**
			6"	13⁄16"	3⁄8"	**19L392**	**19L363**	**19L334**
			1 13⁄16"	13⁄16"	3⁄8"	**19L389**	**19L360**	**19L331**
			3½"	13⁄16"	3⁄8"	**19L390**	**19L361**	**19L332**
3⁄8"-24			3½"	13⁄16"	3⁄8"	**19L410**	**19L380**	**19L351**
½"-13	½"	½"	5"	1 1⁄32"	½"	**19L395**	**19L366**	**19L337**
			6"	1 1⁄32"	½"	**19L396**	**19L367**	**19L338**
			2 1⁄16"	1 1⁄32"	½"	**19L393**	**19L364**	**19L335**
			3½"	1 1⁄32"	½"	**19L394**	**19L365**	**19L336**
½"-20			3½"	1 1⁄32"	½"	**19L411**	**19L381**	**19L352**
5⁄8"-11	5⁄8"	5⁄8"	5"	1 5⁄16"	5⁄8"	**19L398**	**19L369**	**19L340**
			6"	1 5⁄16"	5⁄8"	**19L399**	**19L370**	**19L341**
			3½"	1 5⁄16"	5⁄8"	**19L397**	**19L368**	**19L339**
¾"-10	¾"	¾"	5"	1 9⁄16"	¾"	**19L402**	**19L372**	**19L343**
			6"	1 9⁄16"	¾"	**19L403**	**19L373**	**19L344**
			3½"	1 9⁄16"	¾"	**19L401**	**19L371**	**19L342**
¾"-16			6"	1 9⁄16"	¾"	—	**19L382**	**19L353**
			6"	1 9⁄16"	¾"	**19L412**	—	—
⅞"-9	⅞"	⅞"	5"	1 1⁄8"	⅞"	**19L404**	**19L374**	**19L345**
			6"	1 1⁄8"	⅞"	**19L405**	**19L375**	**19L346**
1"-8	1"	1"	6"	2 3⁄32"	1"	**19L406**	**19L376**	**19L347**
1 1⁄4"-7	1 1⁄4"	1 1⁄4"	6"	2 21⁄32"	1 1⁄4"	**19L407**	**19L377**	**19L348**
1 1⁄2"-6	1 1⁄2"	1 1⁄2"	6"	3 3⁄32"	1 1⁄2"	**19L408**	**19L378**	**19L349**

Thread Size	Shank Dia.	Hole I.D.	Length	Boss Dia.	Boss Thickness	Material	Item No.	Pkg. Qty.
GA								
¼"-20	¼"	3⁄16"	2"	½"	9⁄32"	Black Oxide Steel	**4YVH7**	10
5⁄16"-18	5⁄16"	5⁄16"	3"	5⁄8"	11⁄32"	Black Oxide Steel	**4YVH8**	10
3⁄8"-16	3⁄8"	5⁄16"	3"	¾"	7⁄16"	Black Oxide Steel	**4YVH9**	10
		3⁄8"	4"	¾"	7⁄16"	Black Oxide Steel	**4YVJ3**	10
		3⁄8"	5"	¾"	7⁄16"	Black Oxide Steel	**4YVJ4**	10
		3⁄8"	3¾"	¾"	7⁄16"	Black Oxide Steel	**4YVJ2**	10
½"-13	½"	3⁄8"	4"	1"	9⁄16"	Black Oxide Steel	**4YVJ6**	10
		3⁄8"	5"	1"	9⁄16"	Black Oxide Steel	**4YVJ8**	10
		3⁄8"	3¾"	1"	9⁄16"	Black Oxide Steel	**4YVJ5**	10
5⁄8"-11	5⁄8"	3⁄8"	5"	1 1⁄4"	11⁄16"	Black Oxide Steel	**4YVK1**	10
		3⁄8"	6"	1 1⁄4"	11⁄16"	Black Oxide Steel	**4YVK2**	10
		3⁄8"	4½"	1 1⁄4"	11⁄16"	Black Oxide Steel	**4YVJ9**	10
¾"-10	¾"	¾"	6"	1 1⁄2"	13⁄16"	Black Oxide Steel	**4YVK4**	10
		¾"	4½"	1 1⁄2"	13⁄16"	Black Oxide Steel	**4YVK3**	10

KEN FORGING Forged Industrial Hardware | FABORY

Drop-Forged Eyebolts

Loads are based on a safety factor of 5-to-1. Heat-treated, forged carbon steel eyebolts have hot galvanized finish.

Note: Stainless steel also available; on Grainger.com®, search for "stainless steel drop-forged eyebolts".



With Shoulder



Without Shoulder

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Finish	WITH SHOULDER Item No.	WITHOUT SHOULDER Item No.
Stainless Steel, Ken Forging							
¼"-20	2"	½"	1"	500 lb.	Plain	**19L190**	—
⅜"-16	2½"	¾"	1½"	1200 lb.	Plain	**19L195**	—
	4½"	¾"	1½"	1200 lb.	Plain	**19L196**	—
	10"	¾"	1½"	1200 lb.	Plain	**19L198**	—
½"-13	4"	1 3⁄16"	2 1⁄16"	2400 lb.	Plain	**19L165**	—
	4½"	1"	2"	2200 lb.	Plain	—	**19L175**
	6"	1"	2"	2200 lb.	Plain	**19L201**	**19L176**
	12"	1"	2"	2200 lb.	Plain	**19L202**	—
⅝"-11	6"	1⅜"	2½"	3500 lb.	Plain	**19L203**	—
	12"	1⅜"	2½"	3500 lb.	Plain	**19L204**	—
¾"-10	6"	1½"	2 13⁄16"	5200 lb.	Plain	**19L205**	**19L180**
⅞"-9	6"	1¾"	3½"	7200 lb.	Plain	**19L207**	—
	12"	1¾"	3½"	7200 lb.	Plain	—	**19L183**
1"-8	6"	2"	4"	10,000 lb.	Plain	**19L209**	**19L184**
Steel, Fabory							
¼"-20	2"	½"	1"	500 lb.	Galvanized	—	**35Z457**
	3"	½"	1"	500 lb.	Galvanized	—	**35Z477**
	4"	½"	1"	500 lb.	Galvanized	—	**35Z459**
	6"	½"	1"	500 lb.	Galvanized	—	**35Z493**
⅜"-16	2½"	¾"	1½"	1200 lb.	Galvanized	—	**35Z440**
	3"	¾"	1½"	1200 lb.	Galvanized	—	**35Z489**
	4"	¾"	1½"	1200 lb.	Galvanized	—	**35Z474**
	4½"	¾"	1½"	1200 lb.	Galvanized	—	**35Z442**
	6"	¾"	1½"	1200 lb.	Galvanized	—	**35Z447**
	8"	¾"	1½"	1200 lb.	Galvanized	—	**35Z496**
½"-13	2"	1"	2"	2200 lb.	Galvanized	—	**35Z503**
	3¼"	1"	2"	2200 lb.	Galvanized	—	**35Z464**
	4½"	1"	2"	2200 lb.	Galvanized	—	**35Z463**
	6"	1"	2"	2200 lb.	Galvanized	—	**35Z461**
	8"	1"	2"	2200 lb.	Galvanized	—	**35Z475**
	10"	1"	2"	2200 lb.	Galvanized	—	**35Z476**
	12"	1"	2"	2200 lb.	Galvanized	—	**35Z467**
Steel, Ken Forging							
¼"-20	2"	½"	1"	500 lb.	Zinc	—	**3XRZ2**
	2"	½"	1"	500 lb.	Galvanized	**3XTE3**	—
	3"	½"	1"	500 lb.	Zinc	—	**3XRZ3**
	4"	½"	1"	500 lb.	Zinc	—	**3XRZ4**
	4"	½"	1"	500 lb.	Galvanized	**3XTE4**	—
	5"	½"	1"	500 lb.	Zinc	—	**3XRZ5**
	6"	½"	1"	500 lb.	Zinc	—	**3XRZ6**

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Finish	WITH SHOULDER Item No.	WITHOUT SHOULDER Item No.
	2¼"	⅝"	1¼"	800 lb.	Galvanized	**3ZGV2**	**3ZHG6**
	3¼"	⅝"	1¼"	800 lb.	Galvanized	—	**3ZHG7**
5⁄16"-18	4¼"	⅝"	1¼"	800 lb.	Galvanized	**3ZGV3**	**3ZHG8**
	5"	⅝"	1¼"	800 lb.	Galvanized	—	**3ZHG9**
	6"	⅝"	1¼"	800 lb.	Galvanized	—	**3ZHH1**
	2½"	¾"	1½"	1200 lb.	Galvanized	**3ZGV4**	—
	4½"	¾"	1½"	1200 lb.	Galvanized	**3ZGV5**	—
⅜"-16	5"	¾"	1½"	1200 lb.	Galvanized	—	**3ZHH5**
	6"	¾"	1½"	1200 lb.	Galvanized	**3LVX9**	—
	10"	¾"	1½"	1200 lb.	Galvanized	—	**3JWY2**
	2"	1"	2"	2200 lb.	Galvanized	**3ZGV6**	—
	3¼"	1"	2"	2200 lb.	Galvanized	**3ZGV7**	—
½"-13	4"	1"	2"	2200 lb.	Galvanized	**3LVY1**	**3JWY3**
	6"	1"	2"	2200 lb.	Galvanized	**3ZGV8**	—
	12"	1"	2"	2200 lb.	Galvanized	**3LVY2**	—
	4"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY3**	**3JWY4**
	4½"	1⅜"	2½"	3500 lb.	Galvanized	**3ZGV9**	**3ZHJ6**
	6"	1⅜"	2½"	3500 lb.	Galvanized	**3ZGW1**	**3ZHJ7**
	8"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY4**	**3ZHJ8**
⅝"-11	10"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY5**	**3ZHJ9**
	12"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY6**	**3ZHK1**
	15"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY7**	**3ZHK2**
	18"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY8**	**3ZHK3**
	24"	1⅜"	2½"	3500 lb.	Galvanized	**3LVY9**	**3ZHK4**
	4"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ1**	**3JWY5**
	4½"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3ZGW2**	**3ZHK5**
	6"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3ZGW3**	**3ZHK6**
	8"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ2**	**3ZHK7**
¾"-10	10"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ3**	**3ZHK8**
	12"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ4**	**3ZHK9**
	15"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ5**	**3ZHL1**
	18"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ6**	**3ZHL2**
	24"	1½"	2 13⁄16"	5200 lb.	Galvanized	**3LVZ7**	**3JWY6**
	5"	1¾"	3½"	7200 lb.	Galvanized	**3ZGW4**	**3ZHL3**
	6"	1¾"	3½"	7200 lb.	Galvanized	**3LVZ8**	—
	8"	1¾"	3½"	7200 lb.	Galvanized	**3ZGW5**	**3ZHL4**
⅞"-9	10"	1¾"	3½"	7200 lb.	Galvanized	—	**3JWY8**
	12"	1¾"	3½"	7200 lb.	Galvanized	**3LVZ9**	—
	18"	1¾"	3½"	7200 lb.	Galvanized	—	**3XRY5**
	24"	1¾"	3½"	7200 lb.	Galvanized	**3LWA1**	—
	6"	2"	4"	10,000 lb.	Galvanized	**3ZGW6**	**3XRY6**
	8"	2"	4"	10,000 lb.	Galvanized	—	**3JWZ1**
	9"	2"	4"	10,000 lb.	Galvanized	**3ZGW7**	—
1"-8	10"	2"	4"	10,000 lb.	Galvanized	—	**3XRY7**
	12"	2"	4"	10,000 lb.	Galvanized	**3LWA2**	**3XRY8**
	15"	2"	4"	10,000 lb.	Galvanized	—	**3JWZ2**
	18"	2"	4"	10,000 lb.	Galvanized	—	**3XRY9**
	24"	2"	4"	10,000 lb.	Galvanized	**3LWA3**	**3XRZ1**
	6"	2 5⁄16"	4 7⁄16"	13,500 lb.	Galvanized	**3LWA4**	—
1¼"-7	8"	2 5⁄16"	4 7⁄16"	13,500 lb.	Galvanized	**3LWA5**	—
	12"	2 5⁄16"	4 7⁄16"	13,500 lb.	Galvanized	**3LWA6**	**3JWZ5**
	18"	2 5⁄16"	4 7⁄16"	13,500 lb.	Galvanized	—	**3JWZ6**
	6"	2½"	5 3⁄16"	20,000 lb.	Galvanized	**3LWA8**	**3JWZ8**
1½"-6	12"	2½"	5 3⁄16"	20,000 lb.	Galvanized	**3LWA9**	—
	18"	2½"	5 3⁄16"	20,000 lb.	Galvanized	—	**3JXA1**



Half Clip



Half Clip w/Vinyl Plastisol Cushion



Loop Strap



Loop Strap w/Vinyl Plastisol Cushion



Loop Strap w/Extruded EDPM Cushion

Wire/Cable Clamps

- Temp range: -50° to 350°F (EPDM); -30° to 180°F (Vinyl Plastisol cushioned)

Vinyl Plastisol cushioned clamps are chem-treated for corrosion resistance.

Clamping Dia.	Thickness	Mounting Hole Dia.	Material	Width	Item No.	Pkg. Qty.
Clamp						
Half Clip						
3⁄16"	0.031"	7⁄32"	Steel	½"	**6RNA8**	50
¼"	0.031"	9⁄32"	Steel	½"	**6RNA9**	50
5⁄16"	0.047"	9⁄32"	Steel	½"	**6RNC0**	50
⅜"	0.047"	9⁄32"	Steel	½"	**6RNC1**	50
½"	0.063"	9⁄32"	Steel	½"	**6RNC2**	50
⅝"	0.063"	9⁄32"	Steel	½"	**6RNC3**	50
¾"	0.063"	9⁄32"	Steel	½"	**6RNC4**	50
Half Clip with Cushion						
3⁄16"	0.031"	7⁄32"	Steel	½"	**6YDR3**	50
¼"	0.047"	9⁄32"	Steel	½"	**6YDR4**	50
5⁄16"	0.047"	9⁄32"	Steel	½"	**6YDR5**	50
⅜"	0.047"	9⁄32"	Steel	½"	**6YDR6**	50
½"	0.063"	9⁄32"	Steel	½"	**6RNA5**	50
⅝"	0.063"	9⁄32"	Steel	½"	**6RNA6**	50
¾"	0.063"	9⁄32"	Steel	½"	**6RNA7**	50
Light Duty with Cushion						
¼"	0.031"	13⁄64"	Steel	½"	**6YDP6**	50
5⁄16"	0.031"	13⁄64"	Steel	½"	**6YDP7**	50
⅜"	0.031"	13⁄64"	Steel	½"	**6YDP8**	50
½"	0.031"	13⁄64"	Steel	½"	**6YDP9**	50
⅝"	0.031"	13⁄64"	Steel	½"	**6YDR0**	50
¾"	0.031"	13⁄64"	Steel	½"	**6YDR1**	50
⅞"	0.031"	13⁄64"	Steel	½"	**6YDR2**	50
Loop Strap						
¼"	0.031"	9⁄32"	Aluminum	½"	**6RNC6**	50
5⁄16"	0.031"	9⁄32"	Aluminum	½"	**6RNC7**	50
⅜"	0.031"	9⁄32"	Aluminum	½"	**6RNC8**	50
½"	0.031"	9⁄32"	Aluminum	½"	**6RNC9**	50
⅝"	0.031"	9⁄32"	Aluminum	½"	**6RND0**	50
¾"	0.031"	9⁄32"	Aluminum	½"	**6RND1**	50
⅞"	0.031"	9⁄32"	Aluminum	½"	**6RND2**	25
1"	0.031"	9⁄32"	Aluminum	½"	**6RND3**	25
Loop Strap, Center to Center Length 15⁄32"						
3⁄16"	0.031"	9⁄32"	Aluminum	½"	**6RNC5**	50
Rubber Cushion						
¼"	0.031"	9⁄32"	Steel	½"	**1BAB1**	50
	0.031"	13⁄32"	Steel	¾"	**1BAB2**	50
⅜"	0.031"	9⁄32"	Steel	½"	**1BAB3**	50
	0.031"	13⁄32"	Steel	¾"	**1BAB4**	50
½"	0.031"	9⁄32"	Steel	½"	**1BAB5**	50
	0.047"	13⁄32"	Steel	¾"	**1BAB6**	50
⅝"	0.031"	9⁄32"	Steel	½"	**1BAB7**	50
	0.047"	13⁄32"	Steel	¾"	**1BAB8**	50
¾"	0.031"	9⁄32"	Steel	½"	**1BAB9**	50
	0.047"	13⁄32"	Steel	¾"	**1BAC1**	50
⅞"	0.031"	9⁄32"	Steel	½"	**1BAC2**	50
	0.047"	13⁄32"	Steel	¾"	**1BAC3**	50
1"	0.031"	9⁄32"	Steel	½"	**1BAC4**	25
	0.047"	13⁄32"	Steel	¾"	**1BAC5**	25
1⅛"	0.047"	9⁄32"	Steel	½"	**4DZZ5**	25
1¼"	0.047"	9⁄32"	Steel	½"	**1BAC6**	25
	0.047"	13⁄32"	Steel	¾"	**1BAC7**	25
1⅜"	0.047"	9⁄32"	Steel	½"	**4DZZ6**	25
1½"	0.047"	9⁄32"	Steel	½"	**1BAC8**	25
	0.047"	13⁄32"	Steel	¾"	**1BAC9**	25
1⅝"	0.047"	9⁄32"	Steel	½"	**4DZZ7**	10
1¾"	0.047"	9⁄32"	Steel	½"	**1BAE1**	10
	0.047"	13⁄32"	Steel	¾"	**1BAE2**	10
2"	0.047"	9⁄32"	Steel	½"	**1BAE3**	10
	0.047"	13⁄32"	Steel	¾"	**1BAE4**	10
Vinyl Coated						
3⁄16"	0.031"	9⁄32"	Steel	½"	**1AYZ2**	50
	0.031"	13⁄32"	Steel	¾"	**1AYZ3**	50
¼"	0.031"	9⁄32"	Steel	½"	**1AYZ4**	50
	0.031"	13⁄32"	Steel	¾"	**1AYZ5**	50
5⁄16"	0.031"	9⁄32"	Steel	½"	**1AYZ6**	50
	0.031"	13⁄32"	Steel	¾"	**1AYZ7**	50
⅜"	0.031"	9⁄32"	Steel	½"	**1AYZ8**	50
	0.031"	13⁄32"	Steel	¾"	**1AYZ9**	50
½"	0.047"	9⁄32"	Steel	½"	**1AZG2**	50
	0.047"	13⁄32"	Steel	¾"	**1AZK3**	50
⅝"	0.047"	9⁄32"	Steel	½"	**1AZL1**	50
	0.047"	13⁄32"	Steel	¾"	**1AZL2**	50
¾"	0.047"	9⁄32"	Steel	½"	**1AZL3**	50
	0.047"	13⁄32"	Steel	¾"	**1AZL4**	50
⅞"	0.047"	9⁄32"	Steel	½"	**1AZL5**	50
	0.047"	13⁄32"	Steel	¾"	**1AZL6**	50
1"	0.047"	9⁄32"	Steel	½"	**1AZL7**	25
	0.047"	13⁄32"	Steel	¾"	**1AZL8**	25
1¼"	0.047"	9⁄32"	Steel	½"	**1AZL9**	25
	0.047"	13⁄32"	Steel	¾"	**1BAA1**	25
1½"	0.047"	9⁄32"	Steel	½"	**1BAA2**	25
	0.047"	13⁄32"	Steel	¾"	**1BAA3**	25
1¾"	0.047"	9⁄32"	Steel	½"	**1BAA4**	25
	0.047"	13⁄32"	Steel	¾"	**1BAA5**	10
2"	0.047"	9⁄32"	Steel	½"	**1BAA6**	10
	0.047"	13⁄32"	Steel	¾"	**1BAA7**	10
2½"	0.047"	13⁄32"	Steel	¾"	**1BAA8**	5
3"	0.047"	13⁄32"	Steel	¾"	**1BAA9**	5
Clamp, Loop Strap Cushioned						
¼"	0.031"	9⁄32"	304 SS	½"	**2UTF1**	25
⅜"	0.031"	9⁄32"	304 SS	½"	**2UTF2**	25
½"	0.031"	9⁄32"	304 SS	½"	**2UTF3**	25
⅝"	0.031"	9⁄32"	304 SS	½"	**2UTF4**	25
¾"	0.031"	9⁄32"	304 SS	½"	**2UTF5**	25
⅞"	0.031"	9⁄32"	304 SS	½"	**2UTF6**	25
1"	0.031"	9⁄32"	304 SS	½"	**2UTF7**	25
1¼"	0.031"	9⁄32"	304 SS	½"	**2UTF8**	10
1½"	0.031"	9⁄32"	304 SS	½"	**2UTF9**	10
1¾"	0.031"	9⁄32"	304 SS	½"	**2UTG1**	10
2"	0.031"	9⁄32"	304 SS	½"	**2UTG2**	10
Without Cushion						
¼"	0.031"	9⁄32"	Steel	½"	**2UTD8**	50
⅜"	0.031"	9⁄32"	Steel	½"	**2UTD9**	50
½"	0.031"	9⁄32"	Steel	½"	**2UTE1**	50
⅝"	0.031"	9⁄32"	Steel	½"	**2UTE2**	50
¾"	0.031"	9⁄32"	Steel	½"	**2UTE3**	50
⅞"	0.031"	9⁄32"	Steel	½"	**2UTE4**	50
1"	0.031"	9⁄32"	Steel	½"	**2UTE5**	25
1¼"	0.047"	9⁄32"	Steel	½"	**2UTE6**	25
1½"	0.047"	9⁄32"	Steel	½"	**2UTE7**	25
1¾"	0.047"	9⁄32"	Steel	½"	**2UTE8**	25
2"	0.047"	9⁄32"	Steel	½"	**2UTE9**	10

Nut Information

NUT TYPES



Acorn
Blind tapped hex nuts with an acorn-shaped, peaked cap keep the end of the bolt or other threaded fastener from protruding to protect the threads. See page 2084.



Cap
Snap into place by hand and lock into the stud securely. See page 2085.



Captive
Also known as insert nuts, captive nuts help provide load-bearing threads in soft or thin materials. See grainger.com/fasteners.



Coupling
Elongated nuts are tapped from each side so threads meet in the middle, rather than entirely through in the same direction. See page 2084



Deformed
Feature irregular internal threads that lock onto the matting threads of a bolt or rod and prevent rotation or loosening. See page 2083.



Hex
General purpose hexagonal nuts for use with nonlocking applications on male threaded parts. See page 2079.



Jam
Used as a second nut; force against the main nut to bind threads and prevent loosening. Prevent 1 nut from moving in the direction of the other without turning both nuts. See page 2080.



Locknuts
Lock onto threaded bolts or rods to prevent rotation or loosening. Minimal reusability. See page 2083.



Push
Hold fasteners in-place before final assembly process occurs. Styles available for studs and bolts. See page 2085.



Spring
Reusable nuts provide the correct amount of spring tension without damaging surfaces, eliminating the need for lockwashers and spanners. See page 2085.



Thumb
Knurled tops allow easy hand tightening, even when wet or greasy or in tight locations. See grainger.com/fasteners.



T-Nuts
Nuts with prongs on 1 side that lock into wood. Often used for fastening metal to wood. See page 2085.



U-Nuts
Multithreaded, tapped barrel nuts for high-torque tightening. Clip over the edge of the panel and snap into place to replace weld or stake nuts. See page 2085.



Weld
Tab base nuts are used when working in confined spaces or when welding to thinner metals. See page 2086.



Wing
1-pc., round, threaded nuts have wing lugs for easy manual assembly. Especially suited to applications where frequent removal, replacement, or adjustment is required. See page 2084.

No. 53WR08



No. 53WP96



Hex Nut Assortments

- Include case

No. of Pieces	Material	Finish	No. of Sizes	Includes	Item No.
Nut Assortment					
Nuts, Inch					
216	Steel	Zinc	12	(30) Each: 10"-24, 10"-32, (25) Each: ¼"-28, ¼"-20, (20) Each: 5⁄16"-18, 5⁄16"-24, (15) Each: 3⁄8"-24, 3⁄8"-16, (10) Each: 7⁄16"-20, 7⁄16"-14, (8) Each: ½"-13, ½"-20, Plastic Hanging Pak	**53WR08**
Nylon Insert, Metric					
338	Steel	Zinc	24	Hex Locknuts with Nylon Inserts (32) Each: M5-0.80, M6-1.00, (20) Each: M8-1.25, (16) Each: M4-0.70, M10-1.50, (12) Each: M7-1.00, (6) Each: M12-1.75, (5) Each: M16-2.00, Acorn Nuts (15) Each: M4-0.70, M5-0.80, M6-1.00, M8-1.25, (6) Each: M12-1.75, (5) Each: M10-1.50, Wing Nuts (16) M6-1.00, (15) Each: M4-0.70, (10) Each: M5-0.80, (8) Each: M8-1.25, (6) Each: M10-1.50, M12-1.75, Jam Nuts (25) Each: M6-1.00, (20) Each: M8-1.25, (12) Each: M10-1.50, (10) Each: M12-1.75, Metal Container, Fits Cabinet No. 4UJ35	**53WP96**

Dia./ Thread Size	Nut Standards	Item No.	Pkg. Qty.
Class 10 Steel Plain			
M30-3.50	DIN 985	**5GAZ4**	1
M36-4.00	DIN 985	**5GAZ5**	1
M42-4.50	DIN 985	**5GAZ6**	1
M48-5.00	DIN 985	**5GAZ7**	1
Class 10 Steel, Plain			
M30-3.50	ISO 4032	**5GAZ8**	1
Class 10 Steel, DAC 500B			
M30-3.50	DIN 934	**5GAX9**	1
M36-4.00	DIN 934	**5GAZ1**	1
M30-3.50	DIN 6915	**5GAX2**	1
	DIN 6915	**5GAX3**	1
M36-4.00	DIN 6915	**5GAX4**	1
	DIN 6915	**5GAX5**	1
M42-4.50	DIN 6915	**5GAX6**	1
	DIN 6915	**5GAX7**	1



Metric Wind Power Hex Nuts and Locknuts

- Class 10 carbon steel

Used to build and maintain wind towers and turbines.

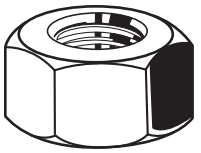
ARMOR COAT™ FASTENERS



Armor Coat® Hex Nuts—Grade 8

Armor coating provides exceptional rust and corrosion-resistance, with the strength of Grade 8 steel. Excellent for harsh environments. Meet ASME/ANSI B18.2.2 1987 (R1999) and SAE J995 standards. 1000-hr. salt spray tested.

Dia./ Thread Size	Item No.	Pkg. Qty.
Grade 8 Steel, Armor Coat		
¼"-20	**5DKE0**	100
5⁄16"-18	**5DKE1**	100
3⁄8"-16	**5DKE2**	100
7⁄16"-14	**5DKE3**	50
½"-13	**5DKE4**	50
5⁄8"-11	**5DKE5**	25
¾"-10	**5DKE6**	10



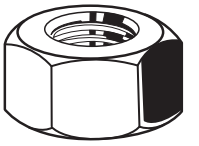
Grades 2, 5, and 8 Steel Hex Nuts

Also known as finished hex nuts. All meet ASME/ANSI B18.2.2 standards.

Note: Bulk quantities and additional sizes and finishes are available on Grainger.com®.

		Made in North America										
		Grade 2		Grade 5		Grade 8			Grade 5		Grade 8	
Dia./ Thread Size	Pkg. Qty.	Plain Item No.	Zinc Plated Item No.	Plain Item No.	Zinc Plated Item No.	Plain Item No.	Zinc Plated Item No.	Zinc Yellow Item No.	Plain Item No.	Zinc Plated Item No.	Plain Item No.	Zinc Yellow Item No.
¼"-20	100	2FE45	2FE47	3XTN5	4FCA9	4FAY3	—	3HDZ2	38ZR75	38ZR95	38ZT33	—
¼"-28	100	2FY25	2FY27	4FAZ8	3HEE7	4FAY4	29DU58	3HDZ3	38ZR85	38ZT05	38ZT66	38ZT76
5⁄16"-18	100	2FE51	2FE53	3HED9	3HEE8	4FAY5	—	3HED5	38ZR76	38ZR96	38ZT34	—
5⁄16"-24	100	2FY29	2FY31	4FAZ9	3HEE9	4FAY6	29DK94	3HED6	38ZR86	38ZT06	38ZT67	—
⅜"-16	100	2FE57	2FE59	3HEE1	3HEF1	3HDX7	—	3HED7	38ZR77	38ZR97	38ZT35	38ZT43
⅜"-24	100	2FY33	2FY35	4FCA1	3HEF2	4FAY7	29DU59	3HDZ7	38ZR87	38ZT07	38ZT68	—
7⁄16"-14	50	2FE63	2FE65	12P525	12P537	12P559	—	12P569	38ZR78	38ZR98	38ZT36	38ZT44
7⁄16"-20	50	2FY37	2FY39	12P526	12P538	12P560	29DU60	12P570	38ZR88	—	38ZT69	—
½"-13	50	2FE67	2FE69	3XTN6	4FCC2	4FAY9	—	3HED8	38ZR79	38ZR99	38ZT37	—
½"-20	50	2FY41	2FY43	3XTL7	4FCC3	4FAZ1	29DK95	4FAZ5	38ZR89	38ZT08	38ZT70	—
9⁄16"-12	25	2FE73	2FE75	12P527	12P539	12P561	—	12P571	38ZR80	—	38ZT38	38ZT45
9⁄16"-18	25	2FY45	2FY47	12P528	3HEF5	12P562	29DG91	12P572	38ZR90	38ZT09	38ZT71	—
⅝"-11	25	2FE77	2FE79	3XTN7	3HEF6	3XTK8	—	3HEA4	38ZR81	38ZT01	38ZT39	38ZT46
⅝"-18	25	2FY49	2FY51	3XTL9	3XTN3	3XTK9	29DU61	3HEA5	38ZR91	38ZT10	38ZT72	38ZT77
¾"-10	20	2FE83	2FE85	12P529	12P540	12P563	—	12P573	38ZR82	38ZT02	38ZT40	38ZT47
	180	42JM06	42JM19	38TT53	42HH77	42HN81	—	42HN94	38ZU05	38ZU24	38ZV16	38ZV23
¾"-16	20	2FY53	2FY55	12P530	12P541	12P564	29DU62	12P574	38ZR92	38ZT11	38ZT73	38ZT78
	180	42JM32	42JM45	42HF98	42HH90	42HT38	42HT26	42HT51	38ZU15	38ZU33	38ZV68	38ZV73
⅞"-9	10	12P503	12P511	12P531	12P542	12P565	—	12P575	38ZR83	38ZT03	38ZT41	38ZT48
	110	42JM07	42JM20	38TT54	42HH78	42HN82	—	42HN95	38ZU06	38ZU25	38ZV17	38ZV24
⅞"-14	10	12P504	12P512	12P532	12P543	12P566	29DK96	12P576	38ZR93	38ZT12	38ZT74	38ZT79
	110	42JM33	42JM46	42HF99	42HH91	42HT39	42HT27	42HT52	38ZU16	38ZU34	38ZV69	38ZV74
1"-8	5	12P505	12P513	12P533	12P544	12P567	—	12P577	38ZR84	38ZT04	38ZT42	38ZT49
	75	42JM08	42JM21	38TT55	42HH79	42HN83	—	42HN96	38ZU07	38ZU26	38ZV18	38ZV25
1"-14	5	29DU54	29DU55	29DU56	29DU57	12P568	—	29DU63	38ZR94	38ZT13	38ZT75	—
	75	42JM34	42JM47	42HG01	42HH92	42HT40	—	42HT53	38ZU17	38ZU35	38ZV70	38ZV75
1⅛"-7	5	12P507	12P515	12P535	12P546	3HDX9	—	3HEC3	—	—	—	—
	50	42JM09	42JM22	41HH02	42HH80	42HN84	—	42HN97	—	—	—	—
1⅛"-12	5	12P508	12P516	12P536	12P547	3HDY1	22UK69	3HEC4	—	—	—	—
	50	42JM35	42JM48	42HG02	42HH93	42HT41	42HT28	42HT54	—	—	—	—
1¼"-7	5	12P509	12P517	3HEE3	3HEG4	3HDY2	—	3HEC5	—	—	—	—
	40	42JM10	42JM23	41HH03	42HH81	42HN85	—	42HN98	—	—	—	—
1¼"-12	5	12P510	12P518	—	3HEG5	3HDY3	29DK98	3HEC6	—	—	—	—
	40	42JM36	42JM49	42HG03	42HH94	42HT42	42HT29	42HT55	—	—	—	—
1½"-6	5	22UK36	22UK48	22UK39	22UK60	22UK64	—	26WC29	—	—	—	—
	20	42JM11	42JM24	42HF90	42HH82	42HN86	—	42HN99	—	—	—	—
1½"-12	5	22UK37	22UK38	22UK62	22UK40	22UK41	29DK99	22UK66	—	—	—	—
	20	42JM37	42JM50	42HG04	42HH95	42HT43	42HT30	42HT56	—	—	—	—

Specialty Hex Nuts



Meet ASME/ANSI B18.2.2 standards.

Dia./ Thread Size	Item No.	Pkg. Qty.
Hex Nut		
18-8 Stainless Steel, Plain		
¼"-20	22UK70	50
¼"-28	22YK25	50
5⁄16"-18	22YK24	50
5⁄16"-24	22YK26	50
⅜"-16	1WB27	100
⅜"-24	22YK27	50
7⁄16"-14	40TW72	25
7⁄16"-20	22YK28	25
½"-13	40TW73	25
½"-20	22YK29	25
9⁄16"-12	22UK42	25
9⁄16"-18	22UK46	25
⅝"-11	1WB44	25
⅝"-18	1WB46	25
¾"-10	1WB48	20
¾"-16	22UK47	20
⅞"-9	40TW77	5
⅞"-14	1WB54	5
1"-8	1WB56	5
1"-12	1WB58	1
1"-14	29DR09	5
1⅛"-7	22UK43	5
1⅛"-12	22UK49	5
1¼"-7	22UK44	5
1¼"-12	22UK50	5
1⅜"-6	1WB70	1
1½"-6	22UK45	5
1½"-12	22UK51	5

Dia./ Thread Size	Item No.	Pkg. Qty.
316 Stainless Steel, Plain		
¼"-20	22YK30	50
5⁄16"-18	40TX15	50
⅜"-16	1WB84	50
7⁄16"-14	40TX17	25
½"-13	1WB88	25
9⁄16"-12	29DU02	25
⅝"-11	22UK71	25
¾"-10	22YK32	20
⅞"-9	1WB94	5
1"-8	1WB96	5
1⅛"-7	22UK52	5
1¼"-7	22UK53	5
1½"-6	22UK54	5
Not Graded Brass, Plain		
¼"-20	1WE14	100
¼"-28	1WE16	100
5⁄16"-18	1WE18	100
5⁄16"-24	1WE20	100
⅜"-16	1WE22	50
⅜"-24	1WE24	50
7⁄16"-14	1WE26	25
7⁄16"-20	1WE28	25
½"-13	1WE30	25
½"-20	1WE32	25
⅝"-11	1WE34	10
¾"-10	1WE36	5
¾"-16	1WE38	5
⅞"-9	1WE40	5
1"-8	1WE42	1
1¼"-7	1WE44	1
Silicon Bronze, Plain		
¼"-20	1WE46	50
5⁄16"-18	1WE48	50
⅜"-16	1WE50	25
½"-13	1WE52	25
⅝"-11	1WE54	10
¾"-10	1WE56	1
⅞"-9	1WE58	1
1"-8	1WE60	1



Machine Screw Hex Nuts

General purpose. 18-8 and 316 stainless steel meet ASME B18.2.2 standard; all others meet ASME B18.6.3.

Dia./Thread Size	Item No.	Pkg. Qty.
Machine Screw Nut		
18-8 Stainless Steel, Plain		
#0-80	1WA77	100
#1-72	1WA79	100
#2-56	1WA81	100
#3-48	1WA83	100
#4-40	1WA85	100
#5-40	1WA87	100
#6-32	1WA89	100
#8-32	1WA91	100
#10-24	1WA93	100
#10-32	1WA95	100
#12-24	1WA97	100
316 Stainless Steel, Plain		
#4-40	1WA99	100
#6-32	1WB11	100
#8-32	1WB13	100

Dia./Thread Size	Item No.	Pkg. Qty.
#10-24	1WB15	100
#10-32	1WB17	100
Not Graded Brass, Plain		
#1-72	1WA57	100
#2-56	1WA59	100
#3-48	1WA61	100
#4-40	1WA63	100
#5-40	1WA65	100
#6-32	1WA67	100
#8-32	1WA69	100
#10-24	1WA71	100
#10-32	1WA73	100
#12-24	1WA75	100
¼"-20	2WA21	100
Steel, Zinc Plated		
#8-36	2TJ18	100



Hex Thin (Jam) Nuts

Used in combination with hex nuts to create a locking action. Meet ASME/ANSI B18.2.2 standards, except A2 stainless steel nuts meet DIN 439B standards.

Note: 316 stainless steel and brass hex thin (jam) nuts are also available on Grainger.com®.

Dia./Thread Size	Item No.	Pkg. Qty.
Jam Nut		
304 Stainless Steel, Plain		
⅝"-11	41VL47	10
316 Stainless Steel, Plain		
7⁄16"-14	41VL44	50
⅞"-9	41VL49	5
1"-8	41VL50	5
1⅛"-7	41VL51	1
1¼"-7	41VL52	1
1½"-6	41VL53	1
Thin Nut		
18-8 Stainless Steel, Plain		
⅜"-24	1WE95	100
½"-20	1WU11	50
⅝"-18	1WU17	25
¾"-16	1WU21	10
A2 Stainless Steel, Plain		
M3-0.50	38DZ94	100
M4-0.70	38DZ95	100
M5-0.80	38DZ96	100
M6-1.00	38DZ97	100
M8-1.25	38DZ98	100
M10-1.50	38DZ99	100

Dia./Thread Size	Item No.	Pkg. Qty.
M12-1.75	38EA01	100
M14-2.00	38EA02	50
M16-2.00	38EA03	50
M20-2.50	38EA04	25
M24-3.00	38EA05	10
M30-3.50	38EA06	3
Low Carbon Steel, Plain		
1⅜"-12	1XA57	5
1¾"-5	1XA60	1
1¾"-12	1XA61	1
2"-4-1/2	1XA62	1
2"-12	1XA63	1
Low Carbon Steel, Zinc Plated		
¼"-20	1JY41	100
¼"-28	1JY61	100
5⁄16"-18	1JY43	100
5⁄16"-24	1JY63	100
⅜"-16	1JY45	100
⅜"-24	1JY65	100
7⁄16"-14	1JY47	50
7⁄16"-20	1JY67	50
½"-13	1JY49	50
½"-20	1JY69	50

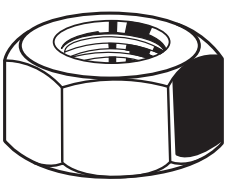
Dia./ Thread Size	Item No.	Pkg. Qty.
Hex Nut		
Grade 9 Steel, Zinc Yellow CR+3		
¼"-20	**452J68**	100
¼"-28	**452J78**	100
5/16"-18	**452J69**	100
5/16"-24	**452J79**	100
3/8"-16	**452J70**	100
3/8"-24	**452J80**	100
7/16"-14	**452J71**	50
7/16"-20	**452J81**	50
½"-13	**452J72**	50
½"-20	**452J82**	50
9/16"-12	**452J73**	25
9/16"-18	**452J83**	25
5/8"-11	**452J74**	25
5/8"-18	**452J84**	25
¾"-10	**452J75**	20
¾"-16	**452J85**	20
7/8"-9	**452J76**	15
7/8"-14	**452J86**	15
1"-8	**452J77**	10
1"-14	**452J87**	10
1 1/8"-7	**452J88**	8
1 1/8"-12	**452J91**	8
1 1/4"-7	**452J89**	8
1 1/4"-12	**452J92**	8
1 1/2"-6	**452J90**	5
1 1/2"-12	**452J93**	5

Grade 9 Steel Hex Nuts

Right-hand thread direction. Meet ANSI B1.1 standards.



Dia./ Thread Size	Item No.	Pkg. Qty.
Steel, Hot Dipped Galvanized		
½"-13	**1AY76**	50
5/8"-11	**1AY80**	25
¾"-10	**1AY84**	20
7/8"-9	**1AY87**	15
1"-8	**1AY91**	10
Grade C Steel, Plain		
½"-13	**1XA38**	50
5/8"-11	**1XA32**	25
¾"-10	**1XA48**	25
7/8"-9	**1XA31**	10
1"-8	**1XA42**	10
1¼"-7	**1XA26**	5
Grade A Steel, Plain		
1½"-6	**2GA35**	10
Grade 2H Steel, Plain		
1 3/8"-8	**1XA21**	1
1½"-6	**1XA22**	1
1½"-8	**1XA23**	1
1¾"-8	**1XA33**	1
1 7/8"-8	**1XA40**	1
2"-4-1/2	**1XA47**	1
2"-8	**1XA55**	1
2¼"-8	**1XA56**	1
Grade 2H Steel, Hot Dipped Galvanized		
½"-13	**12P579**	25
5/8"-11	**1XA41**	25
¾"-10	**1XA25**	10
7/8"-9	**12P580**	5
1"-8	**12P581**	5
1 1/8"-7	**12P582**	5
1¼"-7	**12P584**	5
1½"-6	**1XA54**	1
1¾"-5	**1XA34**	1
2"-4-1/2	**1XA44**	1
Grade 2H Steel, Black Oxide		
5/16"-18	**12P586**	50
Class 2H Steel, Plain		
M10-1.50	**38DM02**	20
M12-1.75	**38DM03**	20
M14-2.00	**38DM04**	10
M16-2.00	**38DM05**	10
M18-2.50	**38DM06**	10
M20-2.50	**38DM07**	10
M22-2.50	**38DM08**	2
M24-3.00	**38DM09**	2
M27-3.00	**38DM10**	2
M30-3.50	**38DM11**	2
M33-3.50	**38DM12**	1
M36-4.00	**38DM13**	1
M39-4.00	**38DM14**	1
M42-4.50	**38DM15**	1
M45-4.50	**38DM16**	1
M48-5.00	**38DM17**	1
Class 10 Steel, Plain		
M12-1.75	**38CT51**	200
M16-2.00	**38CT52**	100
M20-2.50	**38CT53**	100
M22-2.50	**38CT54**	50
M24-3.00	**38CT55**	50
M27-3.00	**38CT56**	50
Class 10 Steel, Hot Dipped Galvanized		
M12-1.75	**38CV80**	200
M16-2.00	**38CV81**	100
M20-2.50	**38CV82**	100
M22-2.50	**38CV83**	50
M24-3.00	**38CV84**	50
M27-3.00	**38CV85**	50
M30-3.50	**38CV86**	50
M36-4.00	**38CV87**	25
Brass, Plain		
¼"-20	**1WY37**	100
5/16"-18	**1WY39**	50
3/8"-16	**1WY41**	25
7/16"-14	**1WY43**	25
½"-13	**1WY45**	10
5/8"-11	**1WY47**	5
¾"-10	**1WY49**	5
7/8"-9	**1WY51**	1
1"-8	**1WY53**	1
¼"-20	**22UK88**	300
3/8"-16	**26LU89**	300
7/16"-14	**26LU39**	300
½"-13	**22UK90**	300
	26LU58	300
	26LU90	300
9/16"-12	**26LU40**	200
	22YK34	200
5/8"-11	**26LU59**	200
	26LU91	200
¾"-10	**22UK91**	200
	26LU60	200
	26LU92	200
7/8"-9	**22UK92**	80
	26LU61	80
	26LU93	80
1"-8	**22YK35**	50
	26LU62	50
	26LU94	50
1 1/8"-8	**26LU41**	40
	26LU63	40
	26LU95	40
1¼"-8	**26LU42**	30
	26LU64	30
	26LU96	30
1 3/8"-8	**26LU43**	25
	26LU65	25
1½"-8	**26LU44**	20
	26LU66	20
	26LU97	20
1 5/8"-8	**26LU45**	15
	26LU67	15
	26LU98	15
1¾"-8	**26LU99**	15
	26LV03	15
1 7/8"-8	**26LV01**	15
	26LV04	15
2"-8	**26LU46**	10
	26LU68	10
2¼"-8	**26LU47**	10
	26LU69	10
2 1/2"-8	**26LU48**	6
2¾"-8	**26LU49**	6
3"-8	**26LU50**	4



Heavy Hex Nuts

Extra-wide, extra-thick nuts have increased bearing surface and thread engagement for improved hold.

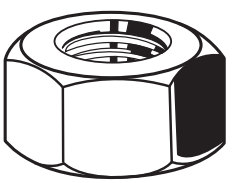
Brass—Meet ASME/ANSI B18.2.2 standards.

Grade 2 Steel—Meet or exceed ASME/ANSI B18.2.2, ASTM A563, and SAE J995 standards.

Grade 2H Steel—For use with structural bolts. Meet ASTM A194 standard.

Grade C Plain Steel & Galvanized Steel—Additional thickness increases bearing surface and engagement of right-hand threads. Meet ASTM A563 standard.

Dia./Thread Size	Item No.	Pkg. Qty.
Class 8 Steel, Zinc Yellow		
M3-0.50	**38CR17**	100
M4-0.70	**38CR18**	100
M5-0.80	**38CR19**	100
M6-1.00	**38CR20**	100
M6-0.75	**26KR88**	100
M7-1.00	**38CR21**	100
M8-1.25	**38CR22**	100
M8-1.00	**29DH18**	100
M10-1.50	**38CR23**	100
M10-1.25	**26KR89**	100
M10-1.00	**29DH19**	100
M12-1.75	**38CR24**	50
M12-1.50	**26KR91**	50
M12-1.25	**26KR90**	50
M12-1.00	**29DH20**	50
M14-2.00	**38CR25**	50
M14-1.50	**26KR92**	50
M16-2.00	**38CR26**	25
M16-1.50	**26KR93**	25
M18-2.50	**38CR27**	25
M18-2.00	**38CR31**	5
M18-1.50	**42FY14**	200
M20-2.50	**38CR28**	10
M20-2.00	**38CR32**	5
M20-1.50	**42FY15**	170
M22-2.50	**38CR29**	10
M22-1.50	**26KR96**	10
M24-3.00	**38CR30**	5
M24-2.00	**29DH22**	10
M24-1.50	**29DH21**	10
M27-2.00	**38CR33**	2
M27-1.50	**29DH23**	5
M30-2.00	**29DH25**	5
M30-1.50	**29DH24**	5
Class 8 Steel, Zinc Plated		
M2-0.40	**26KR83**	100
M2.5-0.45	**26KR84**	100
M3-0.50	**26KR85**	100
M4-0.70	**22UK83**	100
M5-0.80	**22UK84**	100
M6-1.00	**22UK85**	100
M7-1.00	**6CA76**	100
M8-1.25	**22UK86**	100
M8-1.00	**6CB14**	100
M10-1.50	**22UK87**	100
M10-1.25	**6CB18**	50
M10-1.00	**6CB16**	50
M12-1.75	**29DH15**	50
M12-1.50	**6CB22**	50
M12-1.25	**6CB20**	50
M14-2.00	**6CA80**	50
M14-1.50	**6CB24**	25
M16-2.00	**29DH16**	25
M16-1.50	**6CB26**	20
M18-2.50	**6CA82**	25
M18-1.50	**6CB28**	20
M20-2.50	**29DH17**	10
M20-1.50	**6CB30**	20
M22-2.50	**26KR86**	10
M22-1.50	**6CB32**	20
M24-3.00	**6CA84**	10
M24-1.50	**6CB34**	20
M27-3.00	**26KR87**	5
M30-3.50	**22UK58**	5
M33-3.50	**29DH11**	2
M36-4.00	**22UK59**	2
Class 8 Steel, Plain		
M3-0.50	**26KR47**	100
M4-0.75	**38CJ09**	100
M4-0.70	**26KR48**	100
M5-0.80	**26KR49**	100
M6-1.00	**26KR50**	100
M6-0.75	**29DG99**	100
M7-1.00	**26KR51**	100
M8-1.25	**26KR52**	100
M8-1.00	**26KR67**	100
M10-1.50	**26KR53**	100
M10-1.25	**26KR69**	100
M10-1.00	**26KR68**	100
M12-1.75	**26KR54**	50
M12-1.25	**42FT22**	600
M12-1	**26KR70**	50
M12-1.00	**42FT21**	600
M14-2.00	**26KR55**	50
M14-1.50	**26KR73**	50
M16-2.00	**26KR56**	25
M16-1.50	**26KR74**	25
M16-1.00	**38CJ10**	25
M18-2.50	**26KR57**	25
M18-2.00	**38CJ12**	25
M18-1.50	**26KR75**	25
M18-1.00	**38CJ11**	25
M20-2.50	**26KR58**	10
M20-2.00	**38CJ13**	10
M20-1.50	**42FT27**	170
M22-2.50	**26KR59**	10
M22-2.00	**38CJ15**	10
M22-1.50	**26KR77**	10
M22-1.00	**38CJ14**	10
M24-3.00	**26KR60**	10
M24-2.00	**26KR79**	10
M24-1.50	**42FT29**	100
M26-1.50	**38CJ16**	5
M27-3.00	**26KR61**	5
M27-2.00	**38CJ17**	5
M27-1.50	**42FT31**	60
M28-2.00	**38CJ18**	5
M30-3.50	**26KR62**	5
M30-2.00	**26KR82**	5
M30-1.50	**26KR81**	5
M30-1.00	**38CJ19**	5
M32-2.00	**38CJ20**	2
M33-3.50	**29DG98**	2
M33-2.00	**38CJ22**	2
M33-1.50	**38CJ21**	2
M36-4.00	**26KR63**	2
M36-3.00	**38CJ25**	2
M36-2.00	**38CJ24**	2
M36-1.50	**38CJ23**	2
M38-1.50	**38CJ26**	1
Class 8 Steel, Hot Dipped Galvanized		
M8-1.25	**38CR93**	100
M10-1.50	**38CR94**	100
M12-1.75	**38CR95**	50
M14-2.00	**38CR96**	50
M16-2.00	**38CR97**	50
M18-2.50	**38CR98**	25
M20-2.50	**38CR99**	10
M22-2.50	**38CT01**	10
M24-3.00	**38CT02**	5
M27-3.00	**38CT03**	5
M30-3.50	**38CT04**	5
M33-3.50	**38CT05**	2
M36-4.00	**38CT06**	2
Class 6 Steel, Zinc Plated		
M2-0.40	**6CA66**	100
M2.5-0.45	**6CA67**	100
M2.6-0.45	**6CA68**	100
M3-0.50	**6CA69**	100
M3.5-0.60	**6CA70**	100
M4-0.70	**6CA71**	100
M5-0.80	**6CA72**	100
Class 10 Steel, Zinc Yellow		
M3-0.50	**6CA54**	100
M4-0.70	**6CA55**	100
M5-0.80	**6CA56**	100
M6-1.00	**54FJ53**	100
M8-1.25	**54FJ54**	100
M10-1.50	**54FJ55**	100
M12-1.75	**54FJ56**	50
M14-2.00	**54FJ57**	50
M16-2.00	**54FJ58**	50
M18-2.50	**54FJ59**	50
M20-2.50	**54FJ60**	10
M26-3.00	**54FJ61**	10
M30-3.50	**5ZY61**	1
M36-4.00	**5ZY63**	1
Class 10 Steel, Zinc Plated		
M4-0.70	**38CU33**	100
M5-0.80	**38CU34**	100
M6-1.00	**38CU35**	100
M8-1.25	**38CU36**	100
M10-1.50	**38CU37**	100
M12-1.75	**38CU38**	50
M20-2.50	**38CU39**	10
M24-3.00	**38CU40**	10
M5-0.80	**26KR97**	100
M6-1.00	**26KR98**	100
M6-0.75	**29DH29**	100
M8-1.25	**26KR99**	100
M8-1.00	**26KT15**	100
M10-1.50	**26KT01**	100
M10-1.25	**26KT16**	100
M10-1.00	**29DH30**	100
M12-1.75	**26KT02**	50
M12-1.50	**29DH32**	50
M12-1.25	**42GD39**	600
M12-1.00	**29DH31**	50
M14-2.00	**26KT03**	50
M14-1.50	**26KT18**	50
M16-2.00	**26KT04**	25
M16-1.50	**29DH33**	25
M18-2.50	**26KT05**	25
M18-1.50	**42GD43**	200
	26KT19	25
M20-2.50	**26KT06**	10
M20-2.00	**26KT20**	10
M20-1.50	**42GD44**	170
M22-2.50	**26KT07**	10
M22-1.50	**29DH34**	10
M24-3.00	**26KT08**	10
M24-2.00	**29DH36**	10
M24-1.50	**29DH35**	10
M27-3.00	**26KT09**	5
M27-2.00	**38CV27**	5
M27-1.50	**29DH37**	5
M30-3.50	**26KT10**	5
M30-2.00	**26KT21**	5
M30-1.50	**29DH38**	5
M33-3.50	**26KT11**	2
M36-4.00	**26KT12**	2
Class 10 Steel, Black Oxide		
M3-0.50	**6CA42**	100
M4-0.70	**6CA43**	100
A4 Stainless Steel, Plain		
M2-0.40	**6CA27**	50
M2.5-0.45	**6CA28**	50
M3-0.50	**6CA29**	50
M4-0.70	**6CA31**	50
M5-0.80	**6CA32**	50
M6-1.00	**6CA33**	50
M8-1.25	**6CA34**	50
M10-1.50	**22YK36**	50
M12-1.75	**22UK75**	25
M14-2.00	**22UK76**	25
M16-2.00	**22UK77**	10
M18-2.50	**22UK78**	10
M20-2.50	**22UK79**	5
M22-2.50	**38EC10**	5
M24-3.00	**22UK80**	5
M27-3.00	**29DK27**	2



Metric Hex Nuts

Meet DIN 934 standard, except Nos. 29DH15 to 29DH17 and Nos. 22UK83 to 22UK87 meet ISO 4032.

Note: Brass nuts are also available; on Grainger.com®, search for "brass metric hex nuts."

Dia./Thread Size	Item No.	Pkg. Qty.
M30-3.50	**22UK81**	2
M33-3.50	**29DK28**	1
M36-4.00	**5ZY53**	1
A2 Stainless Steel, Plain		
M1.6-0.35	**38DZ92**	50
M2-0.45	**22UK73**	50
M2-0.40	**22UK72**	50
M3-0.50	**22UK74**	50
M4-0.70	**22UK82**	50
M5-0.80	**22YK31**	50
M6-1.00	**22YK33**	50
M7-1.00	**38DZ93**	50
M8-1.25	**6CA19**	50
M10-1.50	**22UK61**	50
M12-1.75	**6CA21**	25
M14-2.00	**22UK63**	25
M16-2.00	**6CA23**	10
M18-2.50	**22UK65**	10
M20-2.50	**6CA25**	5
M22-2.50	**26KT22**	5
M24-3.00	**22UK67**	5
M27-3.00	**29DJ72**	2
M30-3.50	**22UK68**	2
M33-3.50	**26KT23**	1
M36-4.00	**5ZY51**	1



Grade 9 Steel Locknuts

Thread is designed to resist loosening caused by vibration. Right-hand thread direction. Meet ANSI B1.1 standards.

Dia./Thread Size	Item No.	Pkg. Qty.
Top Lock		
Grade 9 Steel Zinc Yellow CR+3		
¼"-20	**452J94**	100
¼"-28	**452K08**	100
5/16"-18	**452J95**	100
5/16"-24	**452K09**	100
3/8"-16	**452J96**	100
3/8"-24	**452K10**	100
7/16"-14	**452J97**	50
7/16"-20	**452K11**	50
½"-13	**452J98**	50
½"-20	**452K12**	50
9/16"-12	**452J99**	25
9/16"-18	**452K13**	25
5/8"-11	**452K01**	25
5/8"-18	**452K14**	25
¾"-10	**452K02**	20
¾"-16	**452K15**	20
7/8"-9	**452K03**	15
7/8"-14	**452K16**	15
1"-8	**452K04**	10
1"-14	**452K17**	10
1 1/8"-7	**452K05**	8
1 1/8"-12	**452K18**	8
1 1/4"-7	**452K06**	6
1 1/4"-12	**452K19**	6
1 1/2"-6	**452K07**	5
1 1/2"-12	**452K20**	5



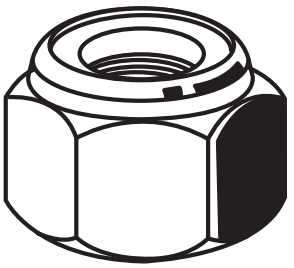
Thin Hex Locknuts with Nylon Insert

Resist loosening caused by vibration and hold mating parts in any position. Nylon inserts withstand temperatures up to 250°F.

Dia./Thread Size	Item No.	Pkg. Qty.
Heavy Hex Lock Nut		
18-8 Stainless Steel Plain		
#6-32	**22RW35**	50
#8-32	**22RW36**	50
#10-24	**22RW37**	50
#10-32	**4FJE3**	50
¼"-20	**22RV42**	50
	22RV52	50
¼"-28	**4FJE5**	50
5/16"-18	**22RV43**	50
	22RV53	50
5/16"-24	**4FJE7**	50
3/8"-16	**22RV44**	50
	22RV54	50
3/8"-24	**22RW44**	50
7/16"-14	**22RW39**	25
7/16"-20	**22RW45**	25
½"-13	**22RV55**	10
½"-20	**4FJF4**	10
5/8"-11	**22RV45**	10
	22RV56	10
5/8"-18	**22RW46**	10
¾"-10	**22RV46**	5
	22RV57	5

Dia./Thread Size	Item No.	Pkg. Qty.
¾"-16	**22RW47**	5
7/8"-9	**22RV47**	5
	22RV58	5
7/8"-14	**22RW48**	5
1"-8	**22RW43**	5
	22RV48	5
1"-14	**22RW49**	5
Grade 2 Steel Plain		
2½"-12	**4FJA1**	1
1¾"-5	**4FHZ3**	1
1¾"-12	**4FHZ4**	1
2"-4-1/2	**4FHZ5**	1
2"-12	**4FHZ6**	1
2¼"-12	**4FHZ8**	1
2½"-4	**4FHZ9**	1
3"-12	**4FJA5**	1
2¼"-4-1/2	**4FHZ7**	1
2¾"-4	**4FJA2**	1
Grade 2 Steel Zinc Plated		
#4-40	**4FJH8**	100
#5-40	**4FJH9**	100
#6-32	**4FJJ1**	100
#8-32	**4FJJ2**	100
#10-24	**4FJJ3**	100

Dia./Thread Size	Item No.	Pkg. Qty.
¼"-20	**4FAN4**	100
	4FJC4	100
¼"-28	**3HDV5**	100
5/16"-18	**4FAN5**	100
	4FJC5	100
3/8"-16	**4FAN6**	100
	4FJC6	50
3/8"-24	**22RW18**	50
7/16"-14	**22RW13**	25
	4FHY5	25
7/16"-20	**22RW19**	25
½"-13	**4FAN7**	100
	4FJC8	25
½"-20	**22RW20**	25
9/16"-12	**4FJC9**	25
5/8"-11	**22RW14**	10
5/8"-18	**4FAN8**	50
¾"-10	**22RW15**	10
	22RV39	10
¾"-16	**4FAN9**	25
7/8"-9	**4FHY7**	5
	22RV49	5
7/8"-14	**22RW21**	5
1"-8	**22RW17**	5
	4FHY8	5
1"-14	**22RW22**	5
1 1/8"-7	**4FJD5**	5
1 1/8"-12	**3HDW8**	5
1 1/4"-7	**22RV40**	5
	22RV50	5
1 1/4"-12	**22RW23**	5
1 1/2"-6	**22RV41**	5
	22RV51	5
1 1/2"-12	**22RW24**	5
Grade 8 Steel Zinc Plated		
¼"-28	**22RW25**	100
5/16"-24	**22RW26**	100
½"-20	**22RW27**	25
5/8"-18	**22RW28**	10
¾"-16	**22RW29**	10
7/8"-14	**22RW30**	5
1 1/8"-12	**22RW32**	5
1 1/4"-12	**22RW33**	5
1 1/2"-12	**22RW34**	5



Hex Locknuts with Nylon Insert

Resist loosening caused by vibration and hold mating parts in any position. Nylon inserts withstand temperatures up to 250°F.

Note: Bulk quantities of some sizes are available on Grainger.com®.

Dia./Thread Size	Item No.	Pkg. Qty.
Lock Nut		
18-8 Stainless Steel Plain		
#2-56	**3XTP5**	50
#3-48	**3PDF6**	50
#4-40	**22RV91**	50
#5-40	**22RV92**	50
#6-32	**22RV93**	50
#8-32	**22RV94**	50
#10-24	**22RV95**	50
#10-32	**22RW06**	50
#12-24	**3PDG4**	100
¼"-20	**22RV96**	50
¼"-28	**22RW07**	50
5/16"-18	**22RV97**	50
5/16"-24	**22RW08**	50
3/8"-16	**3PDG9**	50
3/8"-24	**3PDH1**	50
7/16"-14	**3PDH2**	25
7/16"-20	**3PDH3**	25
½"-13	**22RV98**	10
½"-20	**22RW09**	10
9/16"-12	**22RV99**	10
9/16"-18	**22RW10**	10
5/8"-11	**3PDH8**	10
5/8"-18	**3PDH9**	10
¾"-10	**3PDJ1**	5
¾"-16	**3PDJ2**	5
7/8"-9	**22RW01**	5
7/8"-14	**22RW11**	5
1"-8	**22RW02**	5
1"-14	**22RW12**	5
1 1/8"-7	**22RW03**	2
1 1/4"-7	**22RW04**	2
1 1/2"-6	**22RW05**	2
316 Stainless Steel Plain		
¼"-20	**1WY55**	50
5/16"-18	**1WY57**	50
3/8"-16	**26LJ13**	50
7/16"-14	**26LJ14**	25
½"-13	**1WY63**	10
5/8"-11	**26LJ17**	10
¾"-10	**26LJ18**	5
A2 Stainless Steel Plain		
M3-0.50	**22RW64**	50
M4-0.70	**26WC50**	50
M5-0.80	**26WC51**	50
M6-1.00	**26WC52**	50
M8-1.25	**6CB72**	50
M10-1.50	**22RW65**	50
M12-1.75	**22RW66**	25
M14-2.00	**22RW67**	25
M16-2.00	**22RW68**	10
M18-2.50	**22RW69**	10
M20-2.50	**22RW70**	5
M24-3.00	**22RW71**	5
M30-3.50	**22RW72**	2
M36-4.00	**5ZY75**	1
A4 Stainless Steel Plain		
M3-0.50	**6CB80**	50
M4-0.70	**6CB81**	50
M5-0.80	**6CB82**	50
M6-1.00	**6CB83**	50
M8-1.25	**6CB84**	50
M10-1.50	**22RW73**	50
M12-1.75	**22RW74**	25
M14-2.00	**22RW75**	25
M16-2.00	**22RW76**	10
M18-2.50	**22RW77**	10
M20-2.50	**22RW78**	5
M24-3.00	**22RW79**	5
M30-3.50	**22RW80**	2
M36-4.00	**5ZY79**	1
Brass Plain		
¼"-20	**4FHX1**	25
5/16"-18	**4FHX2**	25
3/8"-16	**4FHX3**	10
½"-13	**4FHX4**	5
5/8"-11	**4FHX5**	1
¾"-10	**4FHX6**	1
Class 5 Steel Zinc Plated		
M3-0.50	**4CAF9**	100
M4-0.70	**4CAG1**	100
M5-0.80	**4CAG2**	100
M6-1.00	**4CAG3**	100
M7-1.00	**4CAG4**	100
M8-1.25	**4CAG5**	100
M10-1.50	**22RW50**	100
M10-1.25	**22RW55**	100
M12-1.50	**22RW58**	50
M12-1.25	**22RW57**	50
M12-1.00	**22RW56**	50
M14-2.00	**22RW51**	50
M14-1.50	**22RW59**	50
M16-2.00	**4CAG9**	25
M16-1.50	**22RW60**	25
M18-2.50	**4CAH1**	25
M20-2.50	**22RW52**	10
Class 8 Steel Zinc Plated		
M24-3.00	**22RW61**	10
M27-3.00	**22RW62**	5
M30-3.50	**22RW63**	5
Grade 2 Steel Zinc Plated		
#2-56	**4FHW7**	100
#3-48	**4FHW8**	100
#4-40	**4EFX4**	100
#6-32	**3HDT6**	100
#8-32	**3HDT7**	100
#10-32	**3HDT9**	100
¼"-20	**3HDU1**	100
¼"-28	**3HDU2**	100
5/16"-18	**3XTK3**	100
5/16"-24	**3HDU3**	100
3/8"-16	**26LH69**	50
3/8"-24	**26LH78**	50
7/16"-14	**22RV61**	25
7/16"-20	**22RV66**	25
½"-13	**22RV62**	25
½"-20	**22RV67**	25
9/16"-12	**12P608**	25
9/16"-18	**12P609**	25
5/8"-11	**22RV63**	10
5/8"-18	**22RV68**	10
¾"-10	**22RV64**	10
¾"-16	**26LH80**	10
7/8"-9	**22RV65**	5
7/8"-14	**26LH81**	5
1"-8	**3HDV3**	5
1"-14	**3HDV4**	5
1 1/8"-7	**4FAN1**	1
1 1/4"-7	**4FAN2**	1
1 1/2"-6	**4FAN3**	1
Grade 5 Steel Zinc Plated		
7/16"-14	**22RV69**	25
7/16"-20	**22RV72**	25
½"-13	**22RV70**	25
½"-20	**22RV73**	25
¾"-10	**22RV71**	10
¾"-16	**22RV74**	10
Grade 8 Steel Black Oxide		
¼"-28	**4FHT7**	100
5/16"-18	**4FHT8**	100
5/16"-24	**4FHT9**	100
3/8"-16	**26LH91**	50
3/8"-24	**26LH96**	50
7/16"-14	**22RV75**	25
7/16"-20	**22RV83**	25
½"-13	**22RV76**	25
½"-20	**22RV84**	25
9/16"-12	**12P629**	25
9/16"-18	**12P630**	25
5/8"-11	**26LH95**	10
5/8"-18	**26LH97**	10
1 1/8"-7	**22RV77**	5
1 1/8"-12	**22RV85**	5
1 1/4"-7	**22RV78**	5
1 1/4"-12	**22RV86**	5
1 1/2"-6	**22RV79**	5
1 1/2"-12	**22RV87**	5
Grade 8 Steel Plain		
¼"-20	**4FHT6**	100
1 3/8"-6	**4FHW3**	1
1 3/8"-12	**4FHW4**	1
Grade 8 Steel Zinc Yellow		
¼"-20	**3HDR5**	100
¼"-28	**4FAH8**	100
5/16"-18	**3HDR6**	100
5/16"-24	**4FAH9**	100
3/8"-16	**26LH88**	50
3/8"-24	**26LH98**	50
5/8"-11	**26LH92**	10
5/8"-18	**26LJ03**	10
1 1/8"-7	**22RV80**	5
1 1/8"-12	**22RV88**	5
1 1/4"-7	**22RV81**	5
1 1/4"-12	**22RV89**	5
1 3/8"-6	**3HDT3**	1
1 3/8"-12	**3HDT4**	1
1 1/2"-6	**22RV82**	5
1 1/2"-12	**22RV90**	5



With Tooth Washer

Hex Locknuts with Washer

Captive washers eliminate need for a separate washer component and make installation easy.

Dia./ Thread Size	Flange Dia.	Item No.	Pkg. Qty.
Nylon Insert Lock Nut			
18-8 Stainless Steel Plain			
½"-13	—	4EFX6	1
Grade 2 Steel Zinc Plated			
¼"-20	—	4EFX7	100
5/16"-18	—	4EFX8	100
⅜"-16	—	4EFX9	50
½"-13	—	4EFY1	25
⅝"-11	—	4EFY2	10
Self Locking Flange Nut - Serrated			
18-8 Stainless Steel Plain			
½"-13	1 1/32"	4CAN2	10
Grade 2 Steel Zinc Plated			
¼"-28	37/64"	4CAN3	100
5/16"-24	21/32"	4CAN4	100
⅜"-24	47/64"	4CAN5	100
7/16"-20	15/16"	4CAN6	50
½"-20	1 1/32"	4CAN7	25
Serrated Lock Nut			
18-8 Stainless Steel Plain			
⅜"-16	47/64"	4EGA7	25
Tooth Washer Lock Nut			
#4-40	9/32"	4EFY4	100
#6-32	11/32"	4EFY5	100
#8-32	3/8"	4EFY6	100
#10-24	13/32"	4EFY7	100
#10-32	13/32"	4EFY8	100
¼"-20	½"	4EFY9	50
	37/64"	4EGA5	50
¼"-28	½"	4CAJ6	50

Dia./ Thread Size	Flange Dia.	Item No.	Pkg. Qty.
5/16"-18	37/64"	4EFZ1	25
	21/32"	4EGA6	25
5/16"-24	37/64"	4EFZ2	25
⅜"-16	21/32"	4CAJ7	25
⅜"-24	21/32"	4CAJ8	20
A2 Stainless Steel Plain			
M3-0.50	6.50mm	4EFZ9	50
M4-0.70	8.20mm	4CAK5	50
M5-0.80	9.50mm	4CAK6	50
M6-1.00	11.50mm	4EGA1	50
M8-1.25	15.00mm	4CAK7	50
Class 5 Steel Zinc Plated			
M6-1.00	11.50mm	4CAK8	100
M8-1.25	15.00mm	4CAK9	50
Class 8 Steel Zinc Plated			
M3-0.50	6.50mm	4EGA2	100
M4-0.70	8.20mm	4EGA3	100
M5-0.80	9.50mm	4EGA4	100
Grade 2 Steel Zinc Plated			
#4-40	3/32"	4EFZ3	100
#6-32	3/32"	4EFZ4	100
#8-32	3/8"	4EFZ5	100
#10-24	13/32"	4EFZ6	100
¼"-28	½"	4CAJ9	100
5/16"-18	37/64"	4CAK1	100
5/16"-24	37/64"	4CAK2	100
⅜"-16	21/32"	4CAK3	100
⅜"-24	21/32"	4CAK4	100
Steel Zinc Plated			
#10-32	13/32"	4EFZ7	100
¼"-20	½"	4EFZ8	100

Hex Flange Locknuts

Provide vibration resistance and increased load over a wider bearing surface.



Dia./Thread Size	Item No.	Pkg. Qty.
Nylon Insert Lock Nut - Flanged		
Grade 2 Steel Zinc Plated		
#10-24	4CAN8	100
#10-32	4CAN9	100
¼"-20	4CAP1	100
5/16"-18	4CAP2	100
⅜"-16	4CAP3	50
½"-13	4CAP4	25
¾"-10	4CAP6	5
Grade 8 Steel Zinc Plated		
¼"-20	4CAP7	100
⅜"-16	4CAP9	50
½"-13	4CAR1	25
⅝"-11	4CAR2	10
¾"-10	4CAR3	5
Grade 8 Steel Zinc Yellow		
5/16"-18	4CAP8	100
Self Locking Flange Nut - Serrated		
18-8 Stainless Steel Plain		
#6-32	41MG57	50
#8-32	41MG58	50
#10-24	41MG59	50
#10-32	41MG64	25
¼"-20	41MG60	50
5/16"-18	41MG61	50
5/16"-24	41MG65	25
⅜"-16	41MG62	25
⅜"-24	41MG66	10
½"-13	41MG63	25
316 Stainless Steel Plain		
#10-24	41MG67	10
¼"-20	41MG68	10
5/16"-18	41MG69	10
⅜"-16	41MG70	5

Dia./Thread Size	Item No.	Pkg. Qty.
Grade 2 Steel Zinc Plated		
#12-24	15D981	50
¼"-20	3HDX2	100
5/16"-18	3HDX3	100
⅜"-16	3HDX4	100
7/16"-14	3HDX5	50
⅝"-11	3HDX6	25
Grade 8 Steel Black Oxide		
¼"-20	41MG42	100
5/16"-18	41MG43	100
⅜"-16	41MG44	100
½"-13	41MG45	50
⅝"-11	41MG46	25
¾"-10	41MG47	10
Grade A Steel Zinc Plated		
#6-32	41MG28	100
#8-32	41MG29	100
#10-24	41MG30	100
#12-24	41MG31	100
¼"-20	41MG32	100
¼"-28	41MG50	100
5/16"-18	41MG33	100
5/16"-24	41MG51	100
⅜"-16	41MG34	100
⅜"-24	41MG52	100
7/16"-14	41MG35	50
7/16"-20	41MG53	50
½"-13	41MG36	50
½"-20	41MG54	50
9/16"-12	41MG37	25
⅝"-11	41MG38	25
⅝"-18	41MG55	25
¾"-10	41MG39	10
¾"-16	41MG56	10
⅞"-9	41MG40	10



Top Lock



Deformed Thread Lock Nut

Steel Deformed Thread Locknuts

Feature irregular internal threads that lock onto mating threads of a bolt or rod and prevent rotation or loosening.

Dia./Thread Size	Item No.	Pkg. Qty.
Top Lock Flange Nut		
Grade C Steel Phosphate and Oil		
⅜"-16	4CAL7	50
½"-13	4CAL8	25
⅝"-11	22RV38	10
¾"-10	4CAN1	10
Top Lock		
Class 8 Steel Zinc Plated		
M8-1.25	4CAL1	50
M10-1.50	4CAL2	25
M12-1.75	4CAL3	25
M14-2.00	4CAL4	10
M16-2.00	4CAL5	20
M20-2.50	4CAL6	10
Grade C Steel Zinc Plated		
⅜"-16	26LH07	50
⅜"-24	26LH29	50
7/16"-14	26LH08	25
7/16"-20	26LH30	25
½"-20	26LH31	25
9/16"-12	12P601	25
9/16"-18	12P602	25
⅝"-11	26LH11	10
⅝"-18	26LH33	10
¾"-10	26LH12	10
¾"-16	26LH34	10
⅞"-9	26LH13	5
⅞"-14	26LH35	5
1"-8	12P603	5
1"-14	12P604	5
Grade C Steel Zinc Yellow		
¼"-20	4FAR9	100
¼"-28	4FAU1	100
	4FAW3	100
5/16"-18	4FAU2	100

Dia./Thread Size	Item No.	Pkg. Qty.
5/16"-24	4FAW5	100
⅜"-16	4FAW6	100
⅜"-24	4FAW7	100
7/16"-14	4FAW8	50
7/16"-20	4FAW9	50
½"-13	4FAX1	50
½"-20	4FAX2	50
9/16"-12	4FAX3	25
9/16"-18	4FAX4	25
⅝"-11	3XTN9	25
⅝"-18	4FAX5	25
¾"-10	3XTP1	20
¾"-16	4FAX6	20
⅞"-9	3XTP2	10
⅞"-14	4FAX7	10
1"-8	3XTP3	10
1"-14	3XTP4	10
Reversible Lock Nut		
Grade A Steel Zinc Plated		
¼"-20	4FAP1	100
¼"-28	4FAP2	100
5/16"-18	4FAP3	100
5/16"-24	4FAP4	100
⅜"-16	4FAP5	100
⅜"-24	4FAP6	100
7/16"-14	4FAP7	100
7/16"-20	4FAP8	100
½"-13	4FAP9	50
½"-20	4FAR1	50
9/16"-12	4FAR2	50
⅝"-11	4FAR3	25
⅝"-18	4FAR4	25
¾"-10	4FAR5	25
¾"-16	4FAR6	25
⅞"-9	4FAR7	25
1"-8	4FAR8	10



DISC-LOCK
LEADING INNOVATORS IN ADVISOR TECHNOLOGY
www.disc-lock.com

Hex Locknuts and Safety Wheel Nuts

- Carbon steel

Interlocking cams form a vibration- and shock-proof, free-spinning 1-pc. locking nut assembly that holds tight under forces that cause other locknuts to come loose. Can be used with Grade 5 (Class 8.8), Grade 8 (Class 10.9), and stronger bolts.

Dia./ Thread Size	Washer O.D.	Item No.	Pkg. Qty.
Heavy Hex Lock Nut			
½"-13	1.045"	36RM15	50
⅝"-11	1.265"	36RM16	50
¾"-10	1.495"	36RM17	20
⅞"-9	1.735"	36RM18	20
Safety Wheel Lock Nut			
¾"-16	1.880"	36RM19	10
⅞"-14	2.000"	36RM20	10
M18-1.50	47.5mm	36RM21	10
M20-2.50	47.5mm	36RM23	10
M20-1.50	47.5mm	36RM22	10
M22-1.50	52mm	36RM24	10

Dia./ Thread Size	Washer O.D.	Item No.	Pkg. Qty.
Wedge Lock Nut			
⅝"-16	0.787"	36RM07	50
⅜"-24	0.787"	36RM08	50
7/16"-20	1.000"	36RM09	50
½"-13	1.000"	36RM11	50
½"-20	1.000"	36RM10	50
9/16"-18	1.230"	36RM12	50
⅝"-11	1.230"	36RM13	50
⅝"-18	1.230"	36RM14	50
M10-1.50	20mm	36RM02	50
M12-1.75	25mm	36RM03	50
M14-1.50	32mm	36RM04	50
M16-2.00	32mm	36RM06	50
M16-1.50	32mm	36RM05	50



Coupling Nuts

Note: Left-hand threaded coupling nuts are available on Grainger.com®.

Dia./ Thread Size	L	Item No.	Pkg. Qty.
Coupling Nut			
18-8 Stainless Steel Plain			
#8-32	⅜"	**1HY18**	5
#10-24	¾"	**1HY20**	5
#10-32	¾"	**1HY22**	5
¼"-20	⅞"	**1HY24**	10
¼"-28	⅞"	**1HY26**	5
5⁄16"-18	⅞"	**1HY28**	5
5⁄16"-24	⅞"	**1HY30**	5
⅜"-16	1⅛"	**1HY32**	5
	1¾"	**1HY34**	2
⅜"-24	1⅛"	**1HY36**	5
7⁄16"-14	1¼"	**1HY38**	5
7⁄16"-20	1¼"	**1HY40**	5
½"-13	1¼"	**1HY42**	5
	1¾"	**1HY44**	2
½"-20	1¼"	**1HY46**	2
⅝"-11	2⅛"	**1HY48**	2
⅝"-18	2⅛"	**1HY50**	2
¾"-10	2¼"	**1HY52**	2
¾"-16	2¼"	**1HY54**	2
⅞"-9	2½"	**1HY56**	1
1"-8	2½"	**1HY58**	1
M4-7.00	11mm	**1JB99**	1
M6-1.00	38mm	**1JE11**	1
M8-1.25	38mm	**1JE13**	1
M10-1.50	38mm	**1JE15**	1
M12-1.75	38mm	**1JE17**	1
M16-2.00	54mm	**1JE19**	1
M20-2.50	57mm	**1JE21**	1
316 Stainless Steel Plain			
¼"-20	⅞"	**1HU94**	2
⅜"-16	1⅛"	**1HU96**	2
½"-13	1¼"	**1HU98**	2
⅝"-11	2⅛"	**1HY10**	2
¾"-10	2¼"	**1HY12**	2
⅞"-9	2½"	**1HY14**	1
1"-8	2½"	**1HY16**	1
Class 5.8 Steel Zinc Chromate			
M4-0.07	11mm	**1JE23**	1
M6-1.00	38mm	**1JE25**	10
M8-1.25	38mm	**1JE27**	10
M10-1.50	38mm	**1JE29**	10
M12-1.75	38mm	**1JE31**	10
M16-2.00	54mm	**1JE33**	1
M20-2.50	57mm	**1JE35**	1
Grade 2 Steel Zinc Chromate			
#4-40	7⁄16"	**1JA43**	10
#6-32	½"	**1JA45**	10
#8-32	⅝"	**1JA47**	10
#10-24	¾"	**1JA49**	10
#10-32	¾"	**1JA51**	10
¼"-20	⅞"	**1JA53**	10
	1½"	**1JA55**	10
¼"-28	⅞"	**1JA57**	10
5⁄16"-18	⅞"	**1JA59**	10
	1¾"	**1JA61**	10
5⁄16"-24	⅞"	**1JA63**	10
	1⅛"	**1JA65**	10
⅜"-16	1¾"	**1JA67**	10
	4"	**1JA69**	2
⅜"-24	1⅛"	**1JA71**	10
7⁄16"-14	1¾"	**1JA73**	10
7⁄16"-20	1¾"	**1JA75**	10
½"-13	1¾"	**1JA77**	10
	1¾"	**1JA79**	10
	4"	**1JA81**	2
½"-20	1¾"	**1JA83**	5
9⁄16"-12	2⅛"	**1JA85**	5
9⁄16"-18	2⅛"	**1JA87**	5
⅝"-11	2⅛"	**1JA89**	10
	2⅛"	**1JA91**	2
	5"	**1JA93** †	2
⅝"-18	2⅛"	**1JA95**	5
¾"-10	1½"	**1JA97**	5
	2¼"	**1JA99**	5
	2¼"	**1JB11**	2
	3"	**1JB13**	2
	5"	**1JB15** †	2
¾"-16	2¼"	**1JB17**	5
⅞"-9	2½"	**1JB19**	5
	7"	**1JB21** †	1
⅞"-14	2½"	**1JB23**	2
1"-8	2¾"	**1JB25**	2
	3"	**1JB27**	2
	7"	**1JB29** †	1
1"-14	2¾"	**1JB31**	2
1¼"-7	3"	**1JB33**	2
1¼"-12	3"	**1JB35**	1
1½"-6	3½"	**1JB37**	1
1½"-12	3½"	**1JB39**	1
1¾"-5	5"	**1JB41**	1
Grade 5 Steel Zinc Chromate			
#8-32	⅝"	**1HY90**	4
#10-24	¾"	**1HY92**	4
#10-32	¾"	**1HY94**	4
¼"-20	⅞"	**1HY96**	5
¼"-28	⅞"	**1HY97**	5
5⁄16"-18	1⅛"	**1HY99**	5
5⁄16"-24	1⅛"	**1JA12**	5
⅜"-16	1¾"	**1JA14**	5
⅜"-24	1¾"	**1JA16**	5
7⁄16"-14	1¾"	**1JA18**	5
7⁄16"-20	1¾"	**1JA20**	5
½"-13	1¾"	**1JA22**	5
½"-20	1¾"	**1JA24**	4
⅝"-11	2⅛"	**1JA26**	2
⅝"-18	2⅛"	**1JA28**	2
¾"-10	2¼"	**1JA30**	2
¾"-16	2¼"	**1JA31**	2
⅞"-9	2½"	**1JA33**	2
1"-8	2¾"	**1JA35**	2
1⅛"-7	3"	**1JA37**	2
1¼"-7	3"	**1JA39**	2
1½"-6	3½"	**1JA41**	1
Grade 8 Steel Zinc Chromate			
¼"-20	⅞"	**1HY72**	2
⅜"-16	1¾"	**1HY74**	2
½"-13	1¾"	**1HY76**	2
⅝"-11	2⅛"	**1HY78**	2
¾"-10	2¼"	**1HY80**	2
⅞"-9	2½"	**1HY82**	1
1"-8	2¾"	**1HY84**	1
1¼"-7	3"	**1HY86**	1
1½"-6	3½"	**1HY88**	1
Coupling Nut - Tapped Oversized			
Grade 2 Steel Hot Dipped Galvanized			
⅜"-16	1¾"	**1JB45**	5
7⁄16"-14	1¾"	**1JB47**	5
½"-13	1¾"	**1JB49**	5
⅝"-11	2⅛"	**1JB51**	5
¾"-10	2¼"	**1JB53**	2
	3"	**1JB55**	2
⅞"-9	2½"	**1JB57**	2
1"-8	2¾"	**1JB59**	2
	3"	**1JB61**	2
1¼"-7	3"	**1JB65**	2
1½"-6	3½"	**1JB67**	2

† Partially threaded.



Acorn Nuts

Dia./ Thread Size	Height	Thread Depth	Item No.	Pkg. Qty.
Cap Nut				
18-8 Stainless Steel Plain				
#4-40	¼"	5⁄32"	**6RA39**	25
#6-32	11⁄32"	5⁄32"	**6RA40**	25
#8-32	11⁄32"	5⁄32"	**6RA41**	25
#10-24	13⁄32"	3⁄16"	**6RA42**	25
#10-32	13⁄32"	3⁄16"	**6RA43**	25
#12-24	13⁄32"	3⁄16"	**6RA44**	25
¼"-20	15⁄32"	¼"	**6RA45**	25
	19⁄64"	5⁄16"	**6RA46**	10
¼"-28	15⁄32"	¼"	**6RA47**	25
316 Stainless Steel Plain				
#4-40	¼"	5⁄32"	**6RA24**	5
#6-32	11⁄32"	5⁄32"	**6RA25**	5
#8-32	11⁄32"	5⁄32"	**6RA26**	5
#10-24	13⁄32"	3⁄16"	**6RA27**	5
#10-32	13⁄32"	3⁄16"	**6RA28**	5
#12-24	13⁄32"	7⁄32"	**38C933**	5
¼"-20	15⁄32"	¼"	**6RA29**	1
¼"-28	15⁄32"	¼"	**6RA30**	1
5⁄16"-18	17⁄32"	3⁄16"	**6RA31**	1
5⁄16"-24	17⁄32"	3⁄16"	**6RA32**	1
⅜"-16	⅝"	⅜"	**6RA33**	1
⅜"-24	⅝"	⅜"	**6RA34**	1
½"-13	13⁄16"	½"	**6RA35**	1
½"-20	13⁄16"	½"	**6RA36**	1
⅝"-11	1"	⅝"	**6RA37**	1
⅝"-18	1"	⅝"	**38C936**	1
¾"-10	1 5⁄32"	¾"	**6RA38**	1
¾"-16	1 5⁄32"	¾"	**38C937**	1
⅞"-9	1 23⁄64"	⅞"	**38C938**	1
⅞"-14	1 23⁄64"	⅞"	**38C939**	1
1"-8	1 35⁄64"	1"	**38C940**	1
A2 Stainless Steel Plain				
M3-0.50	6.00mm	4.0mm	**6CB92**	10
M4-0.70	8.00mm	5.7mm	**6CB93**	25
M5-0.80	10.00mm	7.8mm	**6CB94**	25
M6-1.00	12.00mm	8.3mm	**6CB95**	20
M8-1.25	15.00mm	11.4mm	**6CB96**	10
M10-1.50	18.00mm	13.4mm	**6CB97**	5
M12-1.75	22.00mm	16.4mm	**6CB98**	5
M14-2.00	25.00mm	18.4mm	**6CB99**	1
M16-2.00	28.00mm	21.4mm	**6CE10**	1
M20-2.50	34.00mm	26.4mm	**6CE11**	1
Class 6 Steel Zinc Plated				
M3-0.50	6.50mm	2.5mm	**53GH15**	100
M6-1.00	12.00mm	5.0mm	**53GH16**	100
M8-1.25	15.00mm	6.5mm	**53GH17**	100
Grade 2 Steel Zinc Plated				
#4-40	¼"	5⁄32"	**6NU97**	50
#6-32	11⁄32"	5⁄32"	**6NU98**	50
#8-32	11⁄32"	5⁄32"	**6NU99**	50
#10-24	13⁄32"	3⁄16"	**6NY10**	50
#10-32	13⁄32"	3⁄16"	**6NY11**	50
#12-24	13⁄32"	7⁄32"	**38D035**	25
¼"-20	15⁄32"	¼"	**6NY12**	25
¼"-28	15⁄32"	¼"	**6NY13**	25
5⁄16"-18	17⁄32"	5⁄16"	**6NY14**	25
5⁄16"-24	17⁄32"	5⁄16"	**6NY15**	25
⅜"-16	⅝"	⅜"	**6NY16**	25
⅜"-24	⅝"	⅜"	**6NY17**	25
7⁄16"-14	11⁄16"	7⁄16"	**6NY18**	20
7⁄16"-20	11⁄16"	7⁄16"	**6NY19**	20
½"-13	13⁄16"	½"	**6NY20**	10
½"-20	13⁄16"	½"	**6NY21**	10
⅝"-11	1"	⅝"	**6NY22**	5
⅝"-18	1"	⅝"	**6NY23**	5
¾"-10	1 5⁄32"	¾"	**6NY24**	5
¾"-16	1 5⁄32"	¾"	**6NY25**	5
1"-8	1 35⁄64"	1"	**6NY26**	1
Steel Nickel Plated				
#6-32	11⁄32"	5⁄32"	**1XA10**	100
#8-32	11⁄32"	5⁄32"	**1XA11**	100
#10-24	13⁄32"	3⁄16"	**1XA12**	100
#10-32	13⁄32"	3⁄16"	**1XA13**	100
¼"-20	15⁄32"	7⁄32"	**1XA14**	100
5⁄16"-18	17⁄32"	¼"	**1XA15**	50
⅜"-16	⅝"	9⁄32"	**1XA16**	50
½"-13	13⁄16"	⅜"	**1XA17**	25
⅝"-11	1"	15⁄32"	**1XA18**	10
High Crown Cap Nut				
Class 6 Low Carbon Steel Zinc Plated				
M10-1.50	18.00mm	8.0mm	**38DK43**	50
M12-1.75	22.00mm	10.0mm	**38DK44**	50
Self-Locking Cap Nut				
18-8 Stainless Steel Plain				
#6-32	11⁄32"	5⁄32"	**6RA51**	20
#8-32	11⁄32"	5⁄32"	**6RA52**	20
#10-24	13⁄32"	3⁄16"	**6RA53**	20
#10-32	13⁄32"	3⁄16"	**6RA54**	20
¼"-20	15⁄32"	¼"	**6RA55**	10
¼"-28	15⁄32"	¼"	**6RA56**	10
5⁄16"-18	17⁄32"	5⁄16"	**6RA57**	10
5⁄16"-24	17⁄32"	5⁄16"	**6RA58**	10
⅜"-16	⅝"	⅜"	**6RA59**	5
⅜"-24	⅝"	⅜"	**6RA60**	5
½"-13	13⁄16"	½"	**6RA63**	1
½"-20	13⁄16"	½"	**6RA64**	1
⅝"-11	1"	⅝"	**6RA61**	1
¾"-10	1 5⁄32"	¾"	**6RA62**	1



Wing Nuts

Note: Bulk packaging also available on Grainger.com®, search for "bulk wing nuts".

Dia./ Thread Size	Wing Span	Item No.	Pkg. Qty.
Wing Nut			
Nylon			
#4-40	0.91"	**4AGN5**	10
#6-32	0.91"	**4AGN4**	10
#8-32	0.91"	**4AGN3**	10
#10-24	0.91"	**4AGL3**	10
#10-32	0.91"	**4AGN1**	10
¼"-20	1.36"	**4AGL9**	10
¼"-28	1.36"	**4AGL4**	10
⅜"-16	1.37"	**4AGN2**	10
7⁄16"-14	1.77"	**4AGN7**	5
½"-13	1.77"	**4AGN6**	5
M4-0.70	22.80mm	**4AGL8**	10
M5-0.80	22.80mm	**4AGL7**	10
M6-1.00	28.00mm	**4AGL6**	10
M8-1.25	35.10mm	**4AGL5**	10
Wing Nut Nylon Insert			
Zinc Alloy			
#8-32	1.03"	**4CAR4**	25
#10-24	1.03"	**4CAR5**	25
¼"-20	1.25"	**4CAR7**	20
¼"-28	1.25"	**4CAR8**	20
5⁄16"-18	1.50"	**4CAR9**	20
5⁄16"-24	1.50"	**4CAT1**	20
⅜"-16	1.50"	**4CAT2**	20
Wing Nut Type A-Cold Forged			
Brass			
#6-32	0.59" to 0.91"	**41VA40**	50
#8-32	0.78" to 0.91"	**41VA41**	50
#10-24	0.78" to 0.91"	**41VA42**	25
#10-32	0.78" to 0.91"	**41VA49**	25
¼"-20	0.97" to 1.10"	**41VA43**	25
¼"-28	0.97" to 1.10"	**41VA50**	25
5⁄16"-18	1.12" to 1.25"	**41VA44**	10
5⁄16"-24	1.12" to 1.25"	**41VA51**	10
⅜"-16	1.31" to 1.44"	**41VA45**	10
½"-13	1.81" to 1.94"	**41VA46**	5
⅝"-11	2.62" to 2.76"	**41VA47**	1
¾"-10	2.62" to 2.76"	**41VA48**	1
Steel			
#6-32	0.59" to 0.91"	**41VA20**	100
#8-32	0.78" to 0.91"	**41VA21**	100
#10-24	0.78" to 0.91"	**41VA22**	100
#10-32	0.78" to 0.91"	**41VA30**	100
¼"-20	0.97" to 1.10"	**41VA23**	50
¼"-28	0.97" to 1.10"	**41VA31**	50
5⁄16"-18	1.12" to 1.25"	**41VA24**	25
5⁄16"-24	1.12" to 1.25"	**41VA32**	25
⅜"-16	1.31" to 1.44"	**41VA25**	25
⅜"-24	1.31" to 1.44"	**41VA33**	25
7⁄16"-14	1.81" to 1.94"	**41VA26**	10
½"-13	1.81" to 1.94"	**41VA27**	5
⅝"-11	2.62" to 2.76"	**41VA28**	5
¾"-10	2.62" to 2.76"	**41VA29**	1
18-8 Stainless Steel			
#6-32	0.59" to 0.91"	**41VA52**	25
#8-32	0.78" to 0.91"	**41VA53**	25
#10-24	0.78" to 0.91"	**41VA54**	10
#10-32	0.78" to 0.91"	**41VA62**	10
¼"-20	0.97" to 1.10"	**41VA55**	10
¼"-28	0.97" to 1.10"	**41VA63**	10
5⁄16"-18	1.12" to 1.25"	**41VA56**	5
5⁄16"-24	1.12" to 1.25"	**41VA64**	5
⅜"-16	1.31" to 1.44"	**41VA57**	5
⅜"-24	1.31" to 1.44"	**41VA65**	5
7⁄16"-14	1.81" to 1.94"	**41VA58**	5
½"-13	1.81" to 1.94"	**41VA59**	5
⅝"-11	2.62" to 2.76"	**41VA60**	1
¾"-10	2.62" to 2.76"	**41VA61**	1
316 Stainless Steel			
#10-24	0.78" to 0.91"	**41VA66**	5
¼"-20	0.97" to 1.10"	**41VA67**	5
5⁄16"-18	1.12" to 1.25"	**41VA68**	5
⅜"-16	1.31" to 1.44"	**41VA69**	1
7⁄16"-14	1.81" to 1.94"	**41VA70**	1
½"-13	1.81" to 1.94"	**41VA71**	1
Wing Nut Type D-Stamped			
Steel			
#6-32	0.72" to 0.78"	**41VA34**	100
#8-32	0.72" to 0.78"	**41VA35**	100
#10-24	0.85" to 0.91"	**41VA36**	100
¼"-20	1.05" to 1.11"	**41VA37**	50
5⁄16"-18	1.24" to 1.30"	**41VA38**	25
⅜"-16	1.34" to 1.41"	**41VA39**	25


J-Style


U-Style


Rectangular


Cage Style

Spring Nuts

Steel construction with Black Phosphate finish, except where noted.

J-Style and U-Style— Reduce assembly time by eliminating welding and riveting.

Rectangular—For use with threaded screws and studs.

Cage Style—Nuts are well suited to blind-sided applications. Zinc finish.

Thread Size	For Panel Thickness	J STYLE Center of Hole to Panel Edge	J STYLE Item No.	J STYLE Pkg. Qty.	U STYLE Center of Hole to Panel Edge	U STYLE Item No.	U STYLE Pkg. Qty.
For Machine Screws							
6-32	0.025 to 0.040"	0.218"	**1LAT7**	50	0.218"	**1LBB3**	50
		0.468"	**1LAT8**	50	0.468"	**1LBB4**	50
	0.045 to 0.062"	0.218"	**1LAT9**	50	0.218"	**1LBB5**	50
		0.296"	**1LAV1**	50	0.296"	**1LBB6**	50
		—	—	—	0.468"	**1LBB7**	50
8-32	0.025 to 0.040"	0.514"	**1LAV3**	50	0.515"	**1LBC2**	50
		0.234"	**1LAV2**	50	0.234"	**1LBB8**	50
	0.045 to 0.062"	0.514"	**1LAV5**	50	0.328"	**1LBC1**	50
		0.234"	**1LAV4**	50	0.234"	**1LBB9**	50
		—	—	—	0.515"	**1LBC3**	50
10-24	0.025 to 0.040"	0.203"	**1LAV6**	50	0.203"	**1LBC4**	50
		—	—	—	0.562"	**1LBC7**	50
	0.045 to 0.062"	0.562"	**1LAV8**	50	0.359"	**1LBC6**	50
		0.203"	**1LAV7**	50	0.250"	**1LBC5**	50
		—	—	—	0.562"	**1LBC8**	50
10-32	0.025 to 0.040"	0.203"	**1LAV9**	50	—	—	—
For Sheet Metal and Thread Forming Screws							
#6	0.025 to 0.040"	0.218"	**1LAZ1**	50	0.218"	**1LBC9**	50
		0.468"	**1LAZ2**	50	0.468"	**1LBD1**	50
	0.045 to 0.062"	0.218"	**1LAZ3**	50	0.218"	**1LBD2**	50
#8	0.025 to 0.040"	0.515"	**1LAZ5**	50	0.515"	**1LBD4**	50
	0.025 to 0.045"	0.234"	**1LAZ4**	50	0.234"	**1LBD3**	50
	0.045 to 0.062"	0.234"	**1LAZ6**	50	0.234"	**1LBD5**	50
		0.515"	**1LAZ7**	50	0.515"	**1LBD6**	50
#10	0.025 to 0.040"	0.250"	**1LAZ8**	50	0.250"	**1LBD7**	25
		0.562"	**1LBB1**	50	0.562"	**1LBD8**	25
	0.045 to 0.062"	0.250"	**1LAZ9**	50	0.250"	**1LBD9**	25
		0.562"	**1LBB2**	50	0.359"	**1LBE1**	25
		—	—	—	0.562"	**1LBE2**	25

Thread Size	Length	Width	Item No.	Pkg. Qty.
Rectangular - Spring Steel				
For Machine Screws				
4-40	0.440"	0.250"	**1LAT2** *	100
6-32	0.440"	0.280"	**1LAR7**	100
8-32	0.500"	0.310"	**1LAR8**	100
10-24	0.630"	0.380"	**1LAR9**	100
10-32	0.750"	0.440"	**1LAT1**	100
For Sheet Metal and Thread-Forming Screws				
#4	0.380"	0.250"	**1LAT3**	100
#6	0.500"	0.310"	**1LAT4**	100
#8	0.630"	0.410"	**1LAT5**	100
#10	0.750"	0.500"	**1LAT6**	100

** 18-8 stainless steel.*

Thread Size	For Panel Thickness	Center of Hole to Panel Edge	Item No.	Pkg. Qty.
Cage Style - Zinc Spring Steel				
6-32	0.025 to 0.063"	0.250"	**1LBE3**	25
8-32	0.025 to 0.062"	0.250"	**1LBE4**	25
10-24	0.064 to 0.105"	0.250"	**1LBE5**	25
10-32	0.025 to 0.063"	0.250"	**1LBE6**	25
¼-20	0.025 to 0.063"	0.250"	**1LBE7**	25
5/16-18	0.093 to 0.125"	0.300"	**1LBE8**	20
3/8-16	0.028 to 0.056"	0.300"	**1LBE9**	20
½-13	0.059 to 0.092"	0.410"	**1LBF1**	5

Cap Nuts

External Style—Push nuts act as a decorative and protective stop and cover for the end of studs, rods, or tubes. Cover dia. from 0.188" to 0.750" (metric sizes #4 to #16).

Plastic—Use over shaft, stud, or rod ends to help make a vibration-resistant assembly. Cover dia. from 0.125" to 0.750".


External Style


Plastic

Stud Size	Height	Cap Dia.	Cap Color	Material	Item No.	Pkg. Qty.
External						
¼"	0.205"	0.289"	—	Steel Zinc	**4CUC9**	100
3/8"	0.234"	0.419"	—	Steel Zinc	**4CUD2**	50
7/16"	0.328"	0.504"	—	Steel Zinc	**4CUD3**	25
5/8"	0.413"	0.693"	—	Steel Zinc	**4CUD5**	25
5/16"	0.286"	0.358"	Silver	SAE 1050-1065 Steel Nickel Plated	**400K24**	50
Plastic						
3/16"	0.344"	0.656"	White	Steel	**4CUH9**	25
¼"	0.440"	0.835"	Black	Steel	**4CUJ1**	25
5/16"	0.440"	0.835"	Black	Steel	**4CUJ2**	25
3/8"	0.440"	0.835"	Black	Steel	**4CUJ3**	25
7/16"	0.645"	0.835"	Black	Steel	**4CUJ4**	10
½"	0.645"	1.300"	Black	Steel	**4CUJ5**	10
5/8"	0.645"	1.300"	Black	Plastic Black	**4CUJ6**	10

Nut Retainers

U-Type—Commonly used in sheet metal applications. Particularly good for blind assembly applications.

G-Type—Cage fully encloses the nut and shields against protruding screw ends.

U-Nuts—For high-torque tightening in heavy-duty applications.


G-Type


U-Type


U-Type

Thread Size	For Panel Thickness	Center of Hole to Panel Edge	Item No.	Pkg. Qty.
G-Type				
Zinc				
10-32	0.060" to 0.079"	0.285"	**4CUG4**	10
M5 x 0.8	0.060" to 0.079"	0.285"	**4CUG5**	10
U-Nuts				
Black Phosphate				
10-24	0.025 to 0.150"	0.450"	**4CUG6**	25
¼-20	0.025 to 0.150"	0.540"	**4CUG8**	25
¼-20	0.025 to 0.150"	0.760 to 0.800"	**4CUG9**	25
5/16-18	0.025 to 0.150"	0.570"	**4CUH1**	25
3/8-16	0.050 to 0.200"	0.730"	**4CUH2**	25
M6x1.00mm	0.080 to 4.00mm	13.72mm	**4CUH3**	25
M6x1.00mm	0.080 to 4.00mm	19.0 to 20.0mm	**4CUH4**	25
M8x1.25mm	0.080 to 4.00mm	14.48mm	**4CUH6**	25
M8x1.25mm	0.080 to 4.00mm	20.5 to 21.5mm	**4CUH7**	25
M10x1.50mm	1.50 to 5.50mm	17.5mm	**4CUH8**	25
Zinc				
10-32	0.070 to 0.100"	0.310"	**4CUG7**	25
U-Type				
Black Phosphate				
¼-20	0.050 to 0.075"	0.375"	**4KGN8**	10
Zinc				
5/16-18	0.096 to 0.141"	0.500"	**4CUG3**	10

T-Nuts

- Pkg Qty: 100

Steel nuts with zinc finish. Often used to provide threads in wood when fastening other materials.


3-Prong

Internal Thread Size	Base Size	Barrel Dia.	Barrel Height	Drill Size	Item No.
3-Prong					
6-32	¼" x ½"	0.188"	¼"	13/64"	**1XGH1**
8-32	¼" x 3/8"	0.208"	¼"	7/32"	**1XGH2**
10-24	5/16" x ¾"	0.243"	5/16"	¼"	**1XGH3**
10-32	5/16" x ¾"	0.243"	5/16"	¼"	**1XGH4**
¼-20	5/16" x ¾"	0.305"	5/16"	5/16"	**1XGH5**
5/16-18	5/16" x 1/8"	0.390"	5/16"	25/64"	**1XGH7**
3/8-16	3/8" x 1"	0.440"	7/16"	29/64"	**1XGJ2**
4-Prong					
¼-20	7/16" x 1"	0.305"	7/16"	5/16"	**1XGH6**
5/16-18	5/16" x 1"	0.360"	3/8"	25/64"	**1XGH8**
5/16-18	5/16" x 1"	0.360"	5/8"	25/64"	**1XGH9**
3/8-16	3/8" x 1"	0.440"	7/16"	29/64"	**1XGJ1**

Push Nuts

Hold fasteners in place before final assembly process occurs. Vibration-resistant.


No. 4HFV2

Retaining Dia.	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Mechanical Zinc					
#10	0.160"	7/16"	0.012"	**4HFV1**	100
#6	0.110"	11/32"	0.010"	**4HFU8**	100
½"	0.730"	1"	0.035"	**4CUC7**	50
½"	0.463"	15/16"	0.015"	**4HFV6**	100
¼"	0.388"	17/32"	0.012"	**4HFW5**	200
¼"	0.388"	17/32"	0.016"	**4HFW6**	200
¼"	0.250"	½"	0.010"	**4HFV2**	100
⅛"	0.228"	3/8"	0.010"	**4HFV9**	200
⅛"	0.228"	3/8"	0.013"	**4HFW1**	200
3/16"	0.320"	7/16"	0.010"	**4HFW2**	200
3/16"	0.320"	7/16"	0.014"	**4HFW3**	200
3/8"	0.546"	¾"	0.017"	**4HFW9**	200
3/8"	0.546"	¾"	0.026"	**4HFX1**	50
3/8"	0.340"	25/32"	0.015"	**4HFV4**	100
5/16"	0.456"	5/8"	0.014"	**4HFW7**	200
5/16"	0.456"	5/8"	0.021"	**4HFW8**	200
7/16"	0.638"	7/8"	0.030"	**4HFX2**	50
7/32"	0.388"	17/32"	0.012"	**4HFW4**	200
Black Phosphate					
#8	0.136"	3/8"	0.010"	**4HFU9**	100
3/32"	0.161"	0.195"	0.010"	**4HFV8**	200
5/16"	0.274"	5/8"	0.013"	**4HFV3**	100
7/16"	0.407"	27/32"	0.015"	**4HFV5**	100



Locking Hole Plug



Locking Knockout Plug

Nylon Locking Hole and Knockout Plugs

- Temp. range: -40° to 250°F

Plugs close excess chassis holes, wiring outlets, and production access holes. Multiple locks snap into panels from 1/64" to 1/8" thick. Heat-stabilized nylon (UL94V2) construction is suitable for critical or elevated temperature applications.

Thickness	Hole Dia.	Head Dia.	Pkg. Qty.	WHITE Item No.	BLACK Item No.
Locking Hole Plugs					
0.234"	3/16"	0.250"	25	1ELU1	1ELT9
0.312"	1/4"	0.312"	25	1ELU3	1ELU2
	5/16"	0.375"	25	1ELU5	1ELU4
0.406"	3/8"	0.468"	25	1ELU7	1ELU6
	7/16"	0.531"	25	1ELU9	1ELU8
	1/2"	0.578"	25	1ELV2	1ELV1
	9/16"	0.656"	25	1ELV4	1ELV3
	5/8"	0.718"	25	1ELV6	1ELV5
	11/16"	0.781"	25	1ELV8	1ELV7
	3/4"	0.922"	25	1ELW1	1ELV9
	13/16"	0.890"	25	1ELW3	1ELW2
0.453"	7/8"	1.016"	25	1ELW5	1ELW4
	1"	1.203"	25	1ELW7	1ELW6
	1 3/32"	1.218"	25	1ELW9	1ELW8
	1 3/16"	1.312"	25	1ELX2	1ELX1
	1 1/4"	1.375"	25	1ELX4	1ELX3
	1 3/8"	1.500"	25	1ELX6	1ELX5
	1 1/2"	1.672"	25	1ELX8	1ELX7
	1 3/4"	1.925"	25	1ELY1	1ELX9
	2"	2.140"	25	1ELY3	1ELY2
0.750"	2 1/2"	2.775"	25	1ELY5	1ELY4

Thickness	Hole Dia.	Head Dia.	For Panel Thickness	Item No.	Pkg. Qty.
Locking Knockout Plugs - Gray					
0.453"	7/8"	1.016"	0.032 to 0.125	1EMR2	10
	1 1/8"	1.218"	0.032 to 0.125	1EMR3	10
	1 3/8"	1.500"	0.032 to 0.125	1EMR4	10
	1 3/4"	1.925"	0.032 to 0.125	1EMR5	10
	2"	2.140"	0.032 to 0.125	1EMR6	10



Insulating Bushing



All Fit Bushing

Nylon Bushings

- Thickness tolerance: ±0.15"
- Temp. range: -40° to 250°F
- Pkg Qty: 25

Multiple locks snap into panels from 1/32" to 1/8" thick, without tools.

Hole Dia.	Inside Dia.	Outside Dia.	BLACK Item No.	WHITE Item No.
Insulating Bushing				
0.312"	0.250"	0.375"	1ELY8	1ELY9
0.375"	0.187"	0.468"	1EMB1	1EMB2
0.375"	0.250"	0.468"	1EMB3	1EMB4
0.437"	0.312"	0.531"	1EMB7	1EMB8
0.500"	0.375"	0.562"	1ELZ3	1ELZ4
0.500"	0.375"	0.578"	1EMC6	1EMC7
0.562"	0.437"	0.656"	1EMD3	—
0.625"	0.500"	0.718"	1EMD9	1EME1
0.687"	0.500"	0.781"	1EME2	—
0.750"	0.500"	0.843"	1EME8	—
0.750"	0.562"	0.843"	1EMG1	—
0.750"	0.625"	0.828"	1ELZ9	1EMA1
0.875"	0.500"	0.953"	1EMH4	—
0.875"	0.562"	0.953"	1EMH6	—
0.875"	0.625"	0.953"	1EMH8	1EMH9
0.875"	0.687"	0.953"	1EMJ1	1EMJ2
0.875"	0.750"	0.937"	1EMA4	1EMA5
1"	0.750"	1.125"	1EMJ3	1EMJ4
1.093"	0.937"	1.218"	1EMJ9	1EMK1
1.250"	0.937"	1.359"	1EMK4	1EMK5
1.375"	1.000"	1.468"	1EMK6	1EMK7
1.500"	1.062"	1.609"	1EMK8	1EMK9
1.750"	1.375"	1.875"	1EML5	1EML6
2"	1.625"	2.125"	1EML7	1EML8
All Fit Bushing				
0.625"	0.437"	0.718"	1EML9	1EMN1
0.750"	0.500"	0.859"	1EMN2	1EMN3
0.875"	0.562"	0.937"	1EMN6	1EMN7
1"	0.750"	1.062"	1EMN8	—
1.093"	0.812"	1.156"	1EMN9	—



Zinc-Plated Hole Plugs

- Plug buttons fit 1/8-3" holes

Expanding spring action holds fasteners securely.

Hole Dia.	Head Dia.	For Panel Thickness	Item No.	Pkg. Qty.
3/8"	17/32"	0.093 to 0.171"	4HFR2	25
5/8"	51/64"	0.062 to 0.078"	4HFR7	25
	51/64"	0.062 to 0.109"	4HFR8	25
3/4"	15/16"	0.078" to 0.109"	4HFT1	25
7/8"	1 1/16"	0.031 to 0.093"	4HFT4	25
1"	1 5/32"	0.093 to 0.125"	4HFT6	10
1 3/8"	1 9/16"	0.037 to 0.078"	4HFT9	10
1 1/2"	1 41/64"	0.038 to 0.141"	4HFU1	10



With Offset Hole



With Projections

Tab Base Weld Nuts

Nuts with offset hole have a single projection and can be used to reinforce or brace an area, while nuts with projections have a center hole and provide the greatest weld strength.

Dia./ Thread Size	Weld Projections	Base Length	Base Width	Base Thickness	Pilot Dia.	Pilot Height	Pilot Hole Size	Item No.	Pkg. Qty.
Tab Base Weld Nut with Offset Hole									
Steel									
#6-32	—	5/8"	7/16"	3/32"	3/16"	0.030"	13/64"	1LAF5	50
	—	2 3/32"	7/16"	3/32"	3/16"	0.034"	13/64"	1LAG3	50
#8-32	—	5/8"	7/16"	3/32"	13/64"	0.030"	7/32"	1LAF6	50
	—	2 3/32"	7/16"	3/32"	13/64"	0.034"	7/32"	1LAG4	50
#10-24	—	5/8"	7/16"	3/32"	15/64"	0.030"	1/4"	1LAF7	50
	—	1 3/16"	7/16"	3/32"	15/64"	0.034"	1/4"	1LAG5	50
#10-32	—	5/8"	7/16"	3/32"	15/64"	0.030"	1/4"	1LAF8	50
	—	1 3/16"	7/16"	3/32"	15/64"	0.034"	1/4"	1LAG6	50
1/4"-20	—	1 3/16"	1/2"	3/32"	19/64"	0.050"	5/16"	1LAF9	50
	—	1 5/16"	1/2"	3/32"	9/32"	0.041"	5/16"	1LAG7	50
5/16"-18	—	6 3/64"	5/8"	1/8"	23/64"	0.080"	3/8"	1LAG1	50
	—	1 1/8"	7/16"	1/8"	23/64"	0.084"	3/8"	1LAG8	50
3/8"-16	—	6 3/64"	5/8"	9/64"	7/16"	0.090"	29/64"	1LAG2	50
	—	1 1/4"	9/16"	1/8"	7/16"	0.094"	29/64"	1LAG9	50
Stainless Steel									
#8-32	—	5/8"	7/16"	3/32"	13/64"	0.030"	7/32"	1LAE5	10
#10-24	—	5/8"	7/16"	3/32"	15/64"	0.030"	1/4"	1LAE6	10
#10-32	—	5/8"	7/16"	3/32"	15/64"	0.030"	1/4"	1LAE7	10
1/4"-20	—	1 3/16"	1/2"	1/8"	19/64"	0.050"	5/16"	1LAE8	10
1/4"-28	—	1 3/16"	1/2"	1/8"	19/64"	0.050"	5/16"	1LAE9	10
5/16"-18	—	6 3/64"	5/8"	9/64"	23/64"	0.080"	3/8"	1LAF1	10
3/8"-16	—	1 1/8"	5/8"	9/64"	7/16"	0.090"	29/64"	1LAF3	10
Tab Base Weld Nut with Projections									
Steel									
#10-24	1	5/8"	7/16"	3/32"	15/64"	0.032"	1/4"	1LAH5	50
	4	5/8"	7/16"	3/32"	15/64"	0.032"	1/4"	1LAJ7	50
#10-32	1	5/8"	7/16"	3/32"	15/64"	0.032"	1/4"	1LAH6	50
	2	5/8"	7/16"	3/32"	15/64"	0.032"	1/4"	1LAJ4	50
	4	5/8"	7/16"	3/32"	15/64"	0.032"	1/4"	1LAJ8	50
1/4"-20	1	1 3/16"	1/2"	1/8"	19/64"	0.054"	5/16"	1LAH7	50
	2	1 3/16"	1/2"	1/8"	19/64"	0.054"	5/16"	1LAJ5	50
	4	1 3/16"	1/2"	3/32"	19/64"	0.032"	5/16"	1LAJ9	50
1/4"-28	1	1 3/16"	1/2"	1/8"	19/64"	0.054"	5/16"	1LAH8	50
5/16"-18	1	6 3/64"	5/8"	9/64"	23/64"	0.085"	3/8"	1LAH9	50
	4	6 3/64"	5/8"	1/8"	23/64"	0.085"	3/8"	1LAK1	50
3/8"-16	1	1 1/8"	5/8"	9/64"	7/16"	0.094"	29/64"	1LAJ1	50
	4	6 3/64"	5/8"	1/8"	7/16"	0.094"	29/64"	1LAK2	50
1/2"-13	4	1 1/4"	3/4"	5/16"	19/32"	0.094"	39/64"	1LAK3	50
M6-1.00	1	20.70mm	13.00mm	3.20mm	7.50mm	1.30mm	8.00mm	1LAJ2	50
	2	20.70mm	13.00mm	3.20mm	7.50mm	1.30mm	8.00mm	1LAJ6	50

Washer Information

WASHER TYPES



Beveled
Top-bearing surface is cut at an oblique angle to compensate for nonparallel surfaces in structural leveling and shimming applications. Can be round or square. See page 2093.



Conical or Spring
Slight dish shape and edges sheared parallel to the center line increase elasticity of joint for absorbing shock and maintaining tension under dynamic loads.



Countersunk
Allows flat or oval head countersunk screws to be flush with surface for finished appearance. See page 2096.



Disc-Lock™
2-pc. washer has interlocking cams and nonslip ridges that work together under vibration to prevent loosening and lock the assembly, maintaining joint integrity.



Fender
Large outside diameter provides extra-wide bearing surface for distributing force/stress; covers oversize holes. See page 2092.



Flat
The most common washer, with 2 flat surfaces for distributing force/stress of a nut or bolt and reducing friction and heat during installation of a threaded fastener. Can be round or square. See pages 2088, 2089.



SAE Flat—Very similar to the USS, except it has a smaller outside diameter and has a tighter fit to the bolt. Used in the automotive industry. See grainger.com/fasteners.



USS Flat—Most commonly used washer has a large outside diameter that helps distribute forces applied when tightening. See grainger.com/fasteners.



Friction
Rougher washer surfaces have embedded material to provide additional friction and help prevent loosening, even in high-vibration applications. See grainger.com/fasteners.



Nord-Lock®
2-pc. system serration and cams creates wedge locking action that prevents bolts from unintentional loosening. Bolt rotation is blocked due to tension between the pair of washers, regardless of high vibration or dynamic loads. See page 2093.



Ogee
Oversize, curved bearing surface keeps bolt heads and nuts from pulling into wood. The load-distributing ogee curve can serve as a force spreader in structural use. See grainger.com/fasteners.



Raised
Has a large bearing surface and raised reinforcements for structural use with wood fasteners. See page 2096.



Retaining
Feature a specially configured inner diameter that slides on the screw easily, but then grips the outside of the screw shank for retention. Ideal for preassembly and kitting. See grainger.com/fasteners.



Self-Sealing
Bonded silicone rubber to a stainless-steel compressible washer. High-pressure sealing, internally and externally.



Shoulder
Barrel protrudes from center hole of flat-bottomed washer to isolate or insulate a screw, shaft, or rivet. See grainger.com/fasteners.



Slotted
A slot the same width as the hole diameter is cut from the center to the perimeter. Slips on and off shaft without removing fastener. See grainger.com/fasteners.



Spherical
2-piece equalizing assembly with 1 flat washer and 1 dish-shaped washer. Eliminates unequal thread loads and stress from nonparallel surfaces. See grainger.com/fasteners.



Split Lock
Split with 1 end bent slightly outward to bite in and prevent loosening. Acts like a spring under compression to provide extra holding force and decrease frictional resistance during assembly and disassembly. See page 2094.



Tooth Lock
Also referred to as star washers. Directional teeth or serrated edges bite into fastener head/workpiece to prevent loosening. See page 2094.



Wave
Wavy shape provides compensating spring force, increases load-bearing capacity, absorbs shock and vibrations, and resists loosening and fatigue. See grainger.com/fasteners.

GRAINGER APPROVED

ITW Bee Leitzke

Washer Assortments



No. 2FUD5



No. 3CWA2



No. 2NRZ9

No. of Pieces	Material	Finish	No. of Sizes	Includes	Brand	Item No.
Flat Washer Assortment						
Standard						
587	Steel	Zinc	11	(160) Each: #6, (140) Each: #8, (100) Each: 3/16", (60) Each: 1/4", 5/16", (30) Each: 3/8", (12) Each: 1/2", (8) Each: 5/8", (6) Each: 3/4", 7/8", (5) Each: 1", and Plastic Case	GA	53WR09
Nut and Washer Assortment						
600	Low Carbon Steel	Chrome	12	Split Lock Washers (50) Each: 1/4", 5/16", 3/8", Flat Washers (50) Each: 1/4", 5/16", 3/8", Hex Nuts (50) Each: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, and Plastic Container	GA	2FUD5
170	18-8 Stainless Steel	Plain	7	Hex Nuts (30) Each: 6"-32, (25) Each: 8"-32, (20) Each: 10"-24, (15) Each: 1/4"-20, Flat Washers (30) Each: #8, #10, (20) Each: 1/4", Plastic Hanging Pak	GA	53WR27
177	Steel	Zinc	6	Hex Nuts (30) Each: 8"-32, (25) Each: 10"-24, (12) Each: 1/4"-20, Flat Washers (50) Each: #8, (40) Each: #10, (20) Each: 1/4", and Plastic Hanging Pak	GA	53WR20
Washer Assortment						
Fender						
143	Steel	Zinc	12	(20) Each: 1/8" x 3/4", 5/32" x 7/8", (15) Each: 3/16" x 1", (12) Each: 1/4" x 1", (10) Each: 3/16" x 1 1/4", 1/4" x 1 1/4", 5/16" x 1 1/4", x1-1/2", 3/8" x 1 1/4", x1-1/2", (8) Each: 1/4" x 1 1/2", 5/16" x 1 5/8", Plastic Hanging Pak	GA	53WR16
1400	Steel	Zinc	14	(100) Each: #6 x 3/4", 5/32" x 7/8", 3/16" x 3/4", x1", x1-1/4", 1/4" x 1", x1-1/4", x1-1/2", 5/16" x 1 1/4", x1-1/2", x1-5/8", 3/8" x 1 1/4", x1-1/2", 1/2" x 2", Plastic Container	GA	53WR01
Flat						
240	PTFE	Plain	8	Color: White, (40) Each: 0, 1/4, 1/4L, 3/8, (20) Each: 000, 00, 3/8L, 1/2, Plastic Box With LID Chart	GA	3CWA2
Flat and Split Lock						
232	Steel (SAE)	Zinc	12	Flat Washers (30) Each: 1/4", 5/16", 3/8", (15) Each: 1/2", (6) Each: 5/8", (5) Each: 3/4", Split Lock Washers (30) Each: 1/4", 5/16", 3/8", (15) Each: 1/2", (6) Each: 5/8", (5) Each: 3/4", Plastic Hanging Pak	Itw Bee Leitzke	2NRZ9
310	Steel	Zinc	12	Flat Washers (50) Each: #10, (30) Each: 1/4", (25) Each: 5/16", 3/8", (20) Each: 7/16", (15) Each: 1/2", Split Lock Washers (50) Each: #10, (25) Each: 1/4", (20) Each: 5/16", 3/8", (16) Each: 7/16", (14) Each: 1/2", Plastic Hanging Pak	GA	53WR28
Thin Fender						
318	Steel	Zinc	11	(48) Each: 10x1", (40) Each: 1/4x1", (30) Each: 6x5/8", 8x3/4", 10x1-1/4", (24) Each: 1/4x1-1/4", 5/16x1-1/2", x2", 3/8x1-1/4", x1-1/2", (20) Each: 5/16x1-1/4", Plastic Container	GA	4AMG6
318	316 Stainless Steel	Plain	11		GA	4AMG8
318	18-8 Stainless Steel	Plain	11		GA	4AMG7



Flat Washers

Metric sizes meet applicable DIN standards.

Note: Bulk quantities of some sizes are available on Grainger.com®.

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Steel Zinc Plated Finish				
#1	9/32"	0.031"	**22UG80**	100
Steel Hot Dipped Galvanized Finish				
9/16"	1 15/32"	0.109"	**25DK23**	25
1 3/8"	3 1/4"	0.180"	**25DK28**	5
Low Carbon Steel Zinc Plated Finish				
#0	1/8"	0.031"	**22UG72**	100
	3/16"	0.031"	**22UG73**	100
	1/4"	0.031"	**22UG74**	100
#1	5/32"	0.031"	**22UG75**	100
	7/32"	0.031"	**22UG77**	100
#2	11/32"	0.031"	**22UG81**	100
	3/16"	0.031"	**22UG76**	100
	1/4"	0.016"	**22UG78**	100
	1/4"	0.031"	**22UG79**	100
#4	7/16"	0.047"	**22UG85**	100
	5/16"	0.031"	**22UG83**	100
	3/8"	0.047"	**22UG84**	100
	1/4"	0.047"	**22UG82**	100
#6	3/8"	0.0469"	**6DYX4**	100
	9/16"	0.047"	**22UG88**	100
	5/16"	0.047"	**22UG86**	100
	7/16"	0.047"	**22UG87**	100
#8	7/16"	0.0469"	**1JY62**	100
	3/8"	0.047"	**22UG89**	100
	1/2"	0.047"	**22UG91**	100
	5/8"	0.063"	**22UG93**	100
	3/8"	0.047"	**22UG95**	100
#10	13/32"	0.047"	**22UG90**	100
	9/16"	0.047"	**22UG92**	100
	23/32"	0.063"	**22UG94**	100
5/32"	7/8"	0.065"	**1VHF2**	100
#10	1/2"	0.0469"	**1JY66**	100
	1/2"	0.0625"	**6RPN7**	435
	1/2"	0.0625"	**6RPN8**	100
	9/16"	0.0469"	**6RPR3**	100
#12	9/16"	0.0625"	**1JY68**	280
	9/16"	0.0469"	**6RPN9**	280
3/16"	9/16"	0.0469"	**1JY27**	100
1/4"	5/8"	0.0625"	**1JY70**	100
	5/8"	0.0625"	**6RPP0**	100
	1/2"	0.063"	**22UG96**	100
	29/32"	0.063"	**22UG97**	100
	1"	0.063"	**22UG98**	100
	3/4"	0.0625"	**1JY29**	100
	3/4"	0.0625"	**6RPR4**	100
5/16"	11/16"	0.0625"	**1JY72**	100
	1 5/8"	0.065"	**1VHF6**	100
	11/16"	0.0625"	**6RPP1**	100
	7/8"	0.063"	**22UH01**	100
	5/8"	0.063"	**22UG99**	100
	1 1/8"	0.063"	**22UH02**	100
	7/8"	0.0781"	**1JY31**	100
	7/8"	0.0781"	**6RPR5**	100
3/8"	13/16"	0.0625"	**1JY74**	100
	13/16"	0.0625"	**6RPP2**	100
	23/32"	0.063"	**22UH03**	100
	1"	0.063"	**22UH04**	100
	1 1/4"	0.109"	**22UH05**	100
	1 1/4"	0.109"	**42JX76**	700
	1"	0.0781"	**1JY33**	100
	1"	0.0781"	**6RPR6**	100
7/16"	59/64"	0.0625"	**1JY76**	50
	15/16"	0.0625"	**6RPP3**	50
	7/8"	0.063"	**22UH06**	50
	1 13/32"	0.109"	**22UH08**	50
	1 1/8"	0.063"	**22UH07**	50
	59/64"	0.065"	**25DK16**	50
	1 13/32"	0.109"	**42JX80**	500
	1 1/4"	0.0781"	**6RPR7**	100
	1 1/4"	0.083"	**22UE23**	50
1/2"	1 1/16"	0.0937"	**1JY78**	50
	1 1/16"	0.0937"	**6RPP4**	50
	1"	0.063"	**22UH09**	50
	1 1/4"	0.109"	**22UH10**	50
	1 3/4"	0.109"	**22UH11**	50
	1 1/4"	0.109"	**42JX82**	800
	1 3/4"	0.109"	**42JX83**	350
	1 3/8"	0.1094"	**6RPR8**	100
	1 3/8"	0.109"	**22UE24**	50
9/16"	1 1/4"	0.056"	**26L049**	5
	1 15/32"	0.090"	**26L050**	5
	2"	0.090"	**26L051**	5
	1 9/32"	0.095"	**22UE21**	25
	1 13/16"	0.094"	**22UH12**	25
	1 13/16"	0.094"	**42JX84**	950
	1 1/2"	0.1094"	**6RPR9**	50
	1 15/32"	0.109"	**22UE25**	25
	1 1/2"	0.109"	**42JX85**	950
5/8"	1 5/16"	0.0937"	**1JY82**	25
	1 3/4"	0.090"	**26L053**	5
	2 1/4"	0.146"	**26L054**	5
	1 1/4"	0.090"	**26L052**	5
	1 5/16"	0.0937"	**41HH50**	775
	1 3/4"	0.1406"	**6RPT0**	50
	1 3/4"	0.134"	**22UE26**	25
3/4"	1 1/2"	0.141"	**22UH14**	20
	1 1/2"	0.141"	**42JX86**	480
	2"	0.156"	**42JX87**	480
	1 15/32"	0.1406"	**1JY84**	20
	2"	0.1562"	**6RPT1**	25
	1 3/8"	0.090"	**26L055**	2
	2"	0.090"	**26L056**	2
	2 1/2"	0.146"	**26L057**	2
	2"	0.156"	**22UH16**	20
	1 19/32"	0.134"	**25DK17**	20
	2"	0.156"	**42JX88**	180
7/8"	1 3/4"	0.1406"	**1JY86**	10
	1 15/32"	0.090"	**26L058**	2
	2 1/4"	0.146"	**26L059**	2
	2 3/4"	0.146"	**26L060**	2
	2 1/4"	0.165"	**22UE27**	10
1"	2"	0.1406"	**6RPP9**	10
	1 3/4"	0.090"	**26L061**	2
	2 1/2"	0.165"	**22UE28**	5
	2"	0.134"	**22UE22**	5
1 1/8"	2 1/4"	0.1406"	**6RPR0**	46
	2"	0.090"	**26L064**	2
	2 3/4"	0.146"	**26L065**	2
	3 1/4"	0.146"	**26L066**	2
	2 3/4"	0.165"	**22UE29**	5
	2 1/4"	0.134"	**29DN15**	5
	2 3/4"	0.156"	**42JX89**	20
1 1/4"	2 1/2"	0.1562"	**6RPR1**	31
	2 1/4"	0.146"	**26L067**	2
	3"	0.146"	**26L068**	2
	3 1/2"	0.234"	**26L069**	2
	3"	0.165"	**22UE30**	5
	2 1/2"	0.156"	**22UH18**	5
	2 1/2"	0.165"	**29DN16**	5
	2 1/2"	0.165"	**42JX36**	130
1 3/8"	3 1/4"	0.1875"	**6RPT6**	25
	3 1/4"	0.156"	**22UH20**	5
	2 3/4"	0.156"	**22UH19**	5
	2 3/4"	0.165"	**29DN17**	5
	2 3/4"	0.156"	**42JX90**	115
	3 1/4"	0.156"	**42JX91**	75
1 1/2"	3"	0.1562"	**6RPR2**	21
1"	2 1/2"	0.146"	**26L062**	2
	3"	0.146"	**26L063**	2
1 1/2"	3 1/2"	0.1875"	**6RPT7**	25
	3 1/2"	0.180"	**22UE32**	5
	3"	0.156"	**22UH21**	5
	3"	0.165"	**29DN18**	5
	3"	0.165"	**42JX38**	90
	3"	0.156"	**42JX92**	90
1 3/4"	4"	0.1875"	**6DYW7**	10
	4"	0.1875"	**6RPT8**	10
2"	4 1/2"	0.1875"	**6DYW8**	8
	4 1/2"	0.1875"	**6RPT9**	10
Low Carbon Steel Plain Finish				
#2	3/16"	0.156"	**6DYZ3**	100
#4	1/4"	0.156"	**6DYZ4**	100
#5	5/16"	0.03125"	**6DYZ5**	100
#6	3/8"	0.0469"	**6DYZ6**	100
#8	7/16"	0.0469"	**6DYZ7**	100
#10	1/2"	0.0469"	**6DYZ8**	100
#12	9/16"	0.0469"	**6DYY1**	100
	9/16"	0.0625"	**6DYZ9**	100
1/4"	5/8"	0.065"	**2DA56**	100
	5/8"	0.0625"	**6DZA0**	100
	47/64"	0.065"	**2DA30**	100
5/16"	11/16"	0.065"	**2DA57**	100
	11/16"	0.0625"	**6DZA1**	100
	7/8"	0.083"	**2DA31**	100
3/8"	13/16"	0.065"	**2DA58**	100
	13/16"	0.0625"	**6DZA2**	100
	1"	0.083"	**2DA32**	100
7/16"	59/64"	0.0625"	**6DZA3**	100
	59/64"	0.065"	**22UE07**	50
	1 1/4"	0.083"	**22UE16**	50
1/2"	1 11/16"	0.0937"	**6DZA4**	100
	1 1/16"	0.095"	**22UE08**	50
	1 3/8"	0.109"	**22UE17**	50
9/16"	1 5/32"	0.095"	**25DK11**	25
	1 15/32"	0.109"	**25DK13**	25
5/8"	1 5/16"	0.0937"	**6DZA6**	100
	1 5/16"	0.095"	**22UE09**	25
	1 5/16"	0.095"	**42JX24**	775
	1 3/4"	0.134"	**22UE18**	25
3/4"	1 1/2"	0.1406"	**6DZA7**	100
	1 13/32"	0.134"	**25DK12**	20
	2"	0.148"	**25DK14**	20
	1 13/32"	0.134"	**42JX25**	500
7/8"	2 1/4"	0.165"	**22UE61**	10
	1 3/4"	0.1406"	**6DZA8**	100
	1 3/4"	0.134"	**22UE10**	10
	1 3/4"	0.134"	**42JX26**	350
1"	2"	0.1406"	**6DZA9**	100
	2"	0.134"	**22UE11**	5
	2 1/2"	0.165"	**22UE19**	5
	2"	0.134"	**42JX27**	265
1 1/8"	2 3/4"	0.165"	**22UE75**	5
1 1/4"	3"	0.165"	**22UE80**	5
1 1/8"	2 1/4"	0.134"	**29DN12**	5
1 1/4"	2 1/2"	0.165"	**29DN13**	5
1 3/8"	3 1/4"	0.1562"	**6DYY6**	25
	2 3/4"	0.1562"	**6DZC2**	25
	2 3/4"	0.165"	**22UE12**	5
1 1/2"	3 1/2"	0.1875"	**6DYY7**	25
	3"	0.165"	**29DN14**	5
1 3/4"	4"	0.1875"	**6DYY8**	10
	4"	0.180"	**42JX97**	40
2"	4 1/2"	0.1875"	**6DYY9**	10
	4 1/2"	0.180"	**42JX98**	35
2 1/4"	4 3/4"	0.220"	**22UE39**	5
	4 3/4"	0.220"	**42JX99**	25
2 1/2"	5"	0.25"	**6DYZ1**	10
	5"	0.238"	**42JY01**	20
3"	5 1/2"	0.284"	**22UE60**	5
	5 1/2"	0.284"	**42JY02**	15
316 Stainless Steel Plain Finish				
#4	5/16"	0.032"	**6UKW9**	100
	5/16"	0.031"	**22UG48**	50
#6	3/8"	0.036"	**2DNY2**	25
	3/8"	0.031"	**22UG49**	50
#8	3/8"	0.032"	**6UKX0**	100
	7/16"	0.036"	**2DNY3**	25
#10	7/16"	0.031"	**22UG50**	50
	7/16"	0.032"	**6UKX1**	100
	1/2"	0.049"	**22UE38**	50
	9/16"	0.036"	**2DPA7**	25
#12	9/16"	0.051"	**2DNY5**	25
1/4"	5/8"	0.065"	**1NU76**	50
	5/8"	0.050"	**6UKX2**	100
	5/8"	0.047"	**22UG51**	50
	3/4"	0.065"	**22UE40**	50
	3/4"	0.047"	**22UG52**	50
5/16"	11/16"	0.065"	**1NU77**	50
	3/4"	0.050"	**6UKX3**	100
3/8"	11/16"	0.047"	**22UG53**	50
	7/8"	0.047"	**22UG55**	50
5/16"	7/8"	0.083"	**22UE41**	50
	7/8"	0.063"	**22UG56**	50
3/8"	7/8"	0.050"	**6UKX4**	100
	13/16"	0.065"	**1NU78**	50
	13/16"	0.047"	**22UG57**	50
	1"	0.083"	**22UE42**	50
	1"	0.063"	**22UG58**	50
7/16"	29/32"	0.047"	**22UG59**	25
	59/64"	0.065"	**25DK42**	25
	1 1/8"	0.062"	**6UKX5**	100
	1 1/4"	0.083"	**22UE43**	25
	1 1/4"	0.063"	**22UG60**	25
1/2"	1 1/16"	0.098"	**1NU79**	25
	1 1/16"	0.063"	**22UG61**	25
	1 1/4"	0.062"	**6UKX6**	50
	1 3/8"	0.109"	**22UE44**	25
	1 1/4"	0.063"	**22UG62**	25
	1 3/8"	0.094"	**26WC59**	25
	1 3/8"	0.094"	**42KV22**	625
5/8"	1 5/16"	0.095"	**22UG29**	25
	1 3/4"	0.134"	**22UG34**	25
9/16"	1 1/2"	0.094"	**22UG63**	25
	1 1/2"	0.094"	**42KV23**	600
5/8"	1 5/16"	0.063"	**22UG64**	25
	1 5/16"	0.095"	**42KU97**	750
	1 5/16"	0.063"	**42KV24**	775
	1 1/2"	0.078"	**6UKX7**	10
	1 3/4"	0.109"	**22UG66**	25
	1 1/2"	0.078"	**22UG65**	25
	1 1/2"	0.078"	**42KV25**	775
	1 3/4"	0.109"	**42KV26**	325
3/4"	1 1/2"	0.109"	**22UG67**	20
	2"	0.125"	**22UG68**	20
	1 1/2"	0.109"	**42KV27**	460
	2"	0.125"	**42KV28**	180
	1 3/4"	0.110"	**6UKX8**	10
	1 15/32"	0.134"	**25DK43**	20
	1 15/32"	0.134"	**42KU98**	500
7/8"	2"	0.110"	**6UKX9**	10
	2 1/4"	0.165"	**22UE45**	5
	1 3/4"	0.134"	**25DK44**	5
	1 3/4"	0.134"	**42KU99**	350
1"	2"	0.110"	**6UKY0**	10
	2 1/2"	0.165"	**22UE46**	5
	2"	0.109"	**22UG70**	5
	2"	0.134"	**25DK45**	5
	2"	0.134"	**42KV01**	265
	2"	0.109"	**42KV29**	255
	2 1/2"	0.141"	**42KV30**	125
1 1/8"	2 1/2"	0.125"	**6UKY1**	5
	2 3/4"	0.165"	**1NU73**	5
	2 1/4"	0.134"	**42KV02**	215
1 1/4"	2 3/4"	0.125"	**6UKY2**	5
	3"	0.165"	**1NU74**	5
1 3/8"	2 1/2"	0.165"	**42KV03**	130
	3 1/4"	0.180"	**29DU16**	5
1 1/2"	2 3/4"	0.165"	**42KV04**	110
	3 1/4"	0.125"	**6UKY3**	1
	3"	0.165"	**42KV05**	90
316 Stainless Steel Finish				
5/16"	3/4"	0.047"	**22UG54**	50
9/16"	59/64"	0.095"	**29DU03**	25
1 1/4"	2 1/2"	0.165"	**25DK47**	5
18-8 Stainless Steel Plain Finish				
#0	1/8"	0.022"	**26L013**	10
	3/16"	0.022"	**26L014**	10
	1/4"	0.022"	**26L015**	10
#1	7/32"	0.022"	**26L017**	10
	5/32"	0.022"	**26L016**	10
	9/32"	0.028"	**26L018**	10
#2	1/4"	0.028"	**26L020**	25
	3/16"	0.022"	**26L019**	25
	11/32"	0.028"	**26L021**	25
#4	3/16"	0.025"	**2DNW6**	50
	5/16"	0.032"	**6UKY4**	100
	3/8"	0.036"	**26L023**	25
	7/16"	0.036"	**26L024**	25
	1/4"	0.028"	**26L022**	25
	5/16"	0.031"	**19NR58**	50
#6	3/8"	0.036"	**2DNW7**	50
	3/8"	0.032"	**6UKY5**	100
	5/16"	0.028"	**26L025**	25
	7/16"	0.036"	**26L026**	25
	9/16"	0.036"	**26L027**	25
	3/8"	0.031"	**22UF89**	50
	3/8"	0.049"	**19NR59**	50
#8	3/8"	0.032"	**6UKY6**	100
	7/16"	0.036"	**2DNW8**	50
	3/8"	0.036"	**26L028**	25
	5/8"	0.056"	**26L030**	25
	1/2"	0.036"	**26L029**	25
	7/16"	0.049"	**19NR60**	50
#10	7/16"	0.032"	**6UKY7**	100
	13/32"	0.036"	**26L031**	25
	9/16"	0.036"	**26L032**	25
	47/64"	0.056"	**26L033**	25
	1/2"	0.036"	**2DNW9**	50
	1/2"	0.049"	**19NR61**	50
	9/16"	0.036"	**2DNZ5**	50
#12	9/16"	0.051"	**2DNX1**	50
	1/2"	0.045"	**6UKY8**	100
	1/2"	0.047"	**22UF94**	50
	9/16"	0.065"	**25DK29**	50
1/4"	5/8"	0.045"	**6UKY9**	100
	47/64"	0.056"	**26L035**	10
	1"	0.056"	**26L036**	10
	1/2"	0.056"	**26L034**	10
	5/8"	0.047"	**22UF96**	50
	5/8"	0.065"	**25DK30**	50
	3/4"	0.051"	**2DNZ6**	50
	3/4"	0.047"	**19NR63**	50
5/16"	3/4"	0.050"	**6UKZ0**	100
	7/8"	0.056"	**26L038**	10
	1 1/8"	0.056"	**26L039**	10
	5/8"	0.056"	**26L037**	10
	3/4"	0.047"	**22UG03**	50
	11/16"	0.047"	**22UG01**	50
	11/16"	0.065"	**25DK31**	50
3/8"	7/8"	0.047"	**22UG07**	50
5/16"	7/8"	0.064"	**2DNZ7**	50
	7/8"	0.063"	**19NR64**	50
3/8"	7/8"	0.050"	**6UKZ1**	100
	47/64"	0.056"	**26L040**	10
	1"	0.056"	**26L041**	10
	1 1/4"	0.090"	**26L042**	10
	13/16"	0.047"	**22UG09**	50
	13/16"	0.065"	**25DK32**	50
	1"	0.063"	**22UG13**	50
7/16"	59/64"	0.051"	**2DNX5**	25
	7/8"	0.056"	**26L043**	5
	1 1/8"	0.056"	**26L044**	5
	1 15/32"	0.090"	**26L045**	5
	59/64"	0.065"	**25DK33**	25
	29/32"	0.047"	**19NR62**	25
	1"	0.188"	**42KL90**	775
	1 1/4"	0.064"	**2DNZ9**	25
	1 1/8"	0.060"	**6UKZ2**	100
	1 1/8"	0.047"	**22UG17**	25
	1 1/8"	0.063"	**22UG18**	25
	1 1/4"	0.063"	**19NR65**	25
1/2"	1"	0.056"	**26L046**	5
	1 1/4"	0.090"	**26L047**	5
	1 3/4"	0.090"	**26L048**	5
	1 1/16"	0.095"	**25DK34**	25
	1 1/16"	0.063"	**26WC55**	25
	1 1/16"	0.188"	**42KL95**	700
	1 1/8"	0.125"	**42KL96**	875
	1 1/8"	0.188"	**42KL97**	600
	1 3/8"	0.097"	**2DPA1**	25
	1 1/4"	0.062"	**6UKZ3**	100
	1 1/4"	0.063"	**22UG22**	25
	1 3/8"	0.094"	**19NR66**	25
	1 3/8"	0.094"	**42KL99**	675
9/16"	1 1/16"	0.063"	**6UKZ4**	100
	2"	0.090"	**26L072**	5
	1 1/4"	0.056"	**26L070**	5
	1 15/32"	0.090"	**26L071**	5
	1 9/32"	0.095"	**25DK35**	25
	1 13/16"	0.188"	**42KM01**	575
	1 15/32"	0.109"	**22UE33**	25
	1 1/2"	0.094"	**22UG25**	25
	1 1/2"	0.094"	**42KM02**	550
5/8"	1 1/4"	0.090"	**26L073**	5
	2 1/4"	0.146"	**26L075**	5
	1 3/4"	0.090"	**26L074**	5
	1 5/16"	0.095"	**25DK36**	25
	1 5/16"	0.063"	**26WC56**	25
	1 5/16"	0.095"	**42KL38**	775
	1 5/16"	0.219"	**42KM04**	400
	1 3/8"	0.125"	**42KM05**	600
	1 3/8"	0.188"	**42KM06**	400
	1 1/2"	0.062"	**6FDG9**	25
	1 1/2"	0.078"	**6UKZ5**	50
	1 1/2"	0.078"	**22UG30**	25
	1 3/4"	0.109"	**22UG31**	25
	1 3/4"	0.134"	**29DR37**	25
	1 1/2"	0.063"	**42KM07**	750
	1 1/2"	0.078"	**42KM08**	875
	1 3/4"	0.109"	**42KM09**	850

CONTINUED

CONTINUED

Flat Washers

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
	1¾"	0.075"	6FDH0	20
	2"	0.125"	22UG36	20
	1½"	0.109"	22UG32	20
	1¾"	0.109"	22UG35	20
	1½"	0.109"	42KM10	560
	1½"	0.219"	42KM11	300
	1⅝"	0.125"	42KM12	340
	1⅝"	0.250"	42KM13	200
¾"	1¾"	0.078"	42KM14	420
	1¾"	0.109"	42KM15	400
	2"	0.125"	42KM16	400
	1¾"	0.110"	6UKZ6	25
	2½"	0.146"	26L078	2
	1⅜"	0.090"	26L076	2
	2"	0.090"	26L077	2
	1 15/32"	0.134"	25DK37	20
	1 15/32"	0.134"	42KL39	500
	1¾"	0.156"	42KM17	300
	1¾"	0.250"	42KM18	190
	2"	0.110"	6UKZ7	25
	2¾"	0.146"	26L081	2
	1 15/32"	0.090"	26L079	2
	2¼"	0.146"	26L080	2
	2"	0.094"	22UG38	5
⅞"	2"	0.109"	22UG39	5
	2¼"	0.141"	22UG40	5
	1¾"	0.134"	25DK38	5
	1¾"	0.134"	42KL40	350
	2"	0.094"	42KM19	300
	2"	0.109"	42KM20	330
	2¼"	0.141"	42KM21	175
	2"	0.188"	42KM22	190
	2"	0.250"	42KM23	150
	2"	0.281"	42KM24	125
	2"	0.110"	6UKZ8	10
	1¾"	0.090"	26L082	2
1"	3"	0.146"	26L084	2
	2½"	0.165"	22UE34	5
	2½"	0.141"	22UG45	5
	2"	0.134"	25DK39	5
	2"	0.134"	42KL41	265
	2"	0.109"	42KM25	285
	2½"	0.141"	42KM26	125
	2¼"	0.219"	42KM27	115
	2½"	0.125"	6UKZ9	10
	2"	0.090"	26L085	2
	3¼"	0.146"	26L087	2
1⅛"	2¾"	0.146"	26L086	2
	2¾"	0.165"	22UE35	5
	2¼"	0.134"	29DR18	5
	2¼"	0.134"	42KL42	215
	2½"	0.281"	42KM28	75
	2¾"	0.125"	6ULA0	10
	2¼"	0.146"	26L088	2
	3"	0.146"	26L089	2
1¼"	3½"	0.234"	26L090	2
	3"	0.165"	22UE36	5
	2½"	0.165"	25DK40	5
	2½"	0.165"	42KL43	130
1⅜"	2¾"	0.165"	42KL44	110
1½"	3¼"	0.125"	6ULA1	10
1"	2½"	0.146"	26L083	2
	3½"	0.180"	22UE37	5
1½"	3"	0.165"	25DK41	5
	3"	0.165"	42KL45	90

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Low Carbon Steel Zinc Yellow Finish				
M3	9.00mm	0.8mm	25DL16	100
M4	12.00mm	1mm	25DL17	100
M5	15.00mm	1.2mm	25DL18	100
M6	18.00mm	1.6mm	25DL19	100
M8	24.00mm	2mm	25DL21	100
M10	30.00mm	2.5mm	25DL22	100
M12	37.00mm	3mm	25DL23	50
	37.00mm	3mm	42GL34	450
M14	44.00mm	3mm	25DL24	50
M16	50.00mm	3mm	25DL25	25
M20	60.00mm	4mm	25DL26	10
Low Carbon Steel Zinc Plated Finish				
M2	4.50mm	0.3mm	38DR19	100
	7.00mm	0.8mm	29DJ18	100
M2.5	8.00mm	0.8mm	29DJ19	100
M3	6.00mm	0.5mm	38DR21	100
	9.00mm	1mm	38DR32	100
M3.5	11.00mm	0.8mm	25DL11	100
M4	8.00mm	0.5mm	38DR22	100
	12.00mm	1.6mm	38DR33	100
M5	9.00mm	1mm	38DR23	100
	15.00mm	2mm	38DR34	100
M6	11.00mm	1.6mm	38DR24	100
	17.00mm	3mm	38DR35	100
M7	22.00mm	2mm	25DL12	100
M8	15.00mm	1.6mm	38DR25	100
	21.00mm	4mm	38DR36	100
M10	18.00mm	1.6mm	38DR26	100
	25.00mm	4mm	38DR37	100
M12	20.00mm	2mm	38DR27	100
	30.00mm	6mm	38DR38	100
M14	24.00mm	2.5mm	38DR28	100
	44.00mm	3mm	25DL13	50
M16	28.00mm	2.5mm	38DR29	100
	40.00mm	6mm	38DR39	100
M18	30.00mm	2.5mm	38DR30	100
	56.00mm	4mm	25DL14	25
M20	34.00mm	3mm	38DR31	100
	44.00mm	8mm	38DR41	100
M22	39.00mm	3mm	29DJ20	10
	50.00mm	8mm	38DR42	50
M24	50.00mm	1.0mm	38DR43	50
	72.00mm	5mm	25DL15	10
M30	68.00mm	1.0mm	38DR45	25
	92.00mm	6mm	29DJ22	5
M36	110.00mm	8mm	29DJ24	2
Low Carbon Steel Furnace Black Finish				
M16	30.00mm	3mm	2WY83	50
M18	34.00mm	3mm	2WY84	25
M20	37.00mm	3mm	2WY85	25
M24	44.00mm	4mm	2WY86	25
A4 Stainless Steel Plain Finish				
M1.6	4.00mm	0.3mm	25DL07	50
M2	5.00mm	0.3mm	22UE64	50
M2.5	6.00mm	0.5mm	22UE65	50
M2.6	7.00mm	0.5mm	29DK29	50
M3	7.00mm	0.5mm	22UE66	50
	9.00mm	0.8mm	25DL33	50
M3.5	8.00mm	0.5mm	29DK30	50
M4	9.00mm	0.8mm	22UE67	50
	12.00mm	1mm	25DL34	50
M5	10.00mm	1mm	22UE68	50
	15.00mm	1.2mm	25DL35	50
M6	12.00mm	1.6mm	22YG90	50
	18.00mm	1.6mm	25DL36	50
M7	14.00mm	1.6mm	38EC12	50
M8	16.00mm	1.6mm	22YG91	50
	24.00mm	2mm	25DL37	50

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M10	20.00mm	2mm	22YG92	50
	30.00mm	2.5mm	25DL38	50
M12	24.00mm	2.50mm	6FA39	25
	37.00mm	3mm	25DL39	25
M14	28.00mm	2.50mm	6FA41	25
M16	30.00mm	3mm	22UE69	10
	50.00mm	3mm	25DL40	10
M18	34.00mm	3mm	6FA45	10
M20	37.00mm	3mm	22UE70	5
	60.00mm	4mm	25DL41	5
M24	44.00mm	4mm	6FA49	5
M27	50.00mm	4mm	25DL09	5
M30	56.00mm	4mm	22UE71	5
M33	60.00mm	5mm	25DL10	2
M36	66.00mm	5mm	22UE72	2
A2 Stainless Steel Plain Finish				
M1.6	4.00mm	0.3mm	22UH24	50
M2	5.00mm	0.3mm	22UH25	50
	7.00mm	0.8mm	25DL28	50
M2.5	6.00mm	0.5mm	22UH30	50
M2.6	7.00mm	0.5mm	29DJ73	50
M3	7.00mm	0.5mm	26WC30	50
M3.5	8.00mm	0.5mm	26WC31	50
	11.00mm	0.8mm	29DJ77	50
M4	9.00mm	0.8mm	26WC32	50
M5	10.00mm	1mm	26WC33	50
M6	12.00mm	1.6mm	26WC34	50
	17.00mm	3mm	38EA32	100
M7	14.00mm	1.6mm	26WC35	50
M8	16.00mm	1.6mm	26WC36	50
	21.00mm	4mm	38EA33	100
M10	20.00mm	2mm	26WC37	50
	25.00mm	4mm	38EA34	100
M12	24.00mm	2.5mm	22UE59	25
	30.00mm	6mm	38EA35	50
M14	28.00mm	2.50mm	6FA13	25
	44.00mm	3mm	25DL29	25
M16	30.00mm	3mm	26WC38	10
M18	34.00mm	3mm	6FA17	10
M20	37.00mm	3mm	26WC39	5
M22	39.00mm	3mm	25DL03	5
M24	44.00mm	4mm	26WC40	5
	72.00mm	5mm	25DL30	5
M27	50.00mm	4mm	25DL04	5
M30	56.00mm	4mm	22UE62	5
	56.00mm	4mm	42GT58	185
	92.00mm	6mm	25DL31	5
M33	60.00mm	5mm	25DL05	2
	60.00mm	5mm	42GT59	132
M36	66.00mm	5mm	22UE63	2
	66.00mm	5mm	42GT60	108
	110.00mm	8mm	25DL32	2
M39	72.00mm	6mm	42GT61	74
M42	78.00mm	7mm	42GT62	54
200HV Steel Zinc Plated Finish				
M6	12.00mm	1.6mm	25DK57	100
M8	16.00mm	1.6mm	25DK58	100
M10	20.00mm	2mm	25DK59	100
M12	24.00mm	2.5mm	25DK60	50
M14	28.00mm	2.5mm	25DK61	50
M16	30.00mm	3mm	25DK62	25
M18	34.00mm	3mm	25DK63	25
M20	37.00mm	3mm	25DK64	10
M24	44.00mm	4mm	25DK65	10
M27	50.00mm	4mm	25DK66	5
M30	56.00mm	4mm	25DK67	5
M33	60.00mm	5mm	25DK68	2
M36	66.00mm	5mm	25DK69	2
140HV Steel Zinc Yellow Finish				
M3	7.00mm	0.5mm	25DK48	100
M4	9.00mm	0.8mm	25DK49	100

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M5	10.00mm	1mm	25DK50	100
M6	12.00mm	1.60mm	2WY87	100
M7	14.00mm	1.6mm	25DK51	100
M8	16.00mm	1.60mm	2WY88	100
M10	20.00mm	2mm	2WY89	100
M11	24.00mm	2.5mm	25DK52	50
M12	24.00mm	2.5mm	22YG88	50
M14	28.00mm	2.50mm	2WY91	50
M16	30.00mm	3mm	22YG89	25
M18	34.00mm	3mm	2WY93	25
M20	37.00mm	3mm	22UE48	10
M22	39.00mm	3mm	25DK53	10
M24	44.00mm	4mm	22UE49	10
M33	60.00mm	5mm	25DK56	2
140HV Steel Zinc Plated Finish				
M1.6	4.00mm	0.30mm	6EY45	100
M2	5.00mm	0.30mm	6EY47	100
M2.5	6.00mm	0.50mm	6EY49	100
M2.6	7.00mm	0.5mm	25DK91	100
M3	7.00mm	0.50mm	6EY51	100
M3.5	8.00mm	0.5mm	29DJ16	100
M4	9.00mm	0.80mm	6EY55	100
M5	10.00mm	1mm	6EY57	100
M6	12.00mm	1.60mm	6EY59	100
M7	14.00mm	1.60mm	6EY61	100
M8	16.00mm	1.60mm	6EY63	100
M10	20.00mm	2mm	6EY65	100
M11	24.00mm	2.5mm	25DK92	50
M12	24.00mm	2.5mm	22UH22	50
M14	28.00mm	2.50mm	6EY19	50
M16	30.00mm	3mm	22UE53	25
M18	34.00mm	3mm	2WY99	25
M20	37.00mm	3mm	22UE54	10
M22	39.00mm	3mm	25DK93	10
M24	44.00mm	4mm	22UH23	10
M27	50.00mm	4mm	25DK94	5
M30	56.00mm	4mm	22UE55	5
M33	60.00mm	5mm	25DK95	2
M36	66.00mm	5mm	22UE56	2
M39	72.00mm	6mm	22UE57	2
M42	78.00mm	7mm	22UE58	2
	78.00mm	7mm	42GK97	54
M45	85.00mm	7mm	25DK96	2
M48	92.00mm	8mm	25DK97	2
M52	98.00mm	8mm	25DK98	1
	98.00mm	8mm	42GL01	30
M56	105.00mm	9mm	25DK99	1
	105.00mm	9mm	42GL02	23
M64	115.00mm	9mm	25DL02	1
140HV Steel Plain Finish				
M6	12.00mm	1.6mm	25DK70	100
M8	16.00mm	1.6mm	25DK71	100
M10	20.00mm	2mm	25DK72	100
M11	24.00mm	2.5mm	25DK73	50
M12	24.00mm	2.5mm	25DK74	50
M14	28.00mm	2.5mm	25DK75	50
M16	30.00mm	3mm	25DK76	25
M18	34.00mm	3mm	25DK77	25
M20	37.00mm	3mm	25DK78	10
M22	39.00mm	3mm	25DK79	10
M24	44.00mm	4mm	25DK80	10
M27	50.00mm	4mm	25DK81	5
M30	56.00mm	4mm	22UE50	5
M33	60.00mm	5mm	25DK82	2
M36	66.00mm	5mm	22UE51	2
M39	72.00mm	6mm	25DK83	2
M45	85.00mm	7mm	25DK84	2
M48	92.00mm	8mm	25DK85	2
M56	105.00mm	9mm	25DK87	1
M64	115.00mm	9mm	25DK89	1



Military Specification Flat Washers

- 18-8 Stainless steel

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
AN960 ANSI Standards				
#2	¼"	0.022" to 0.042"	2DNL3	100
	¼"	0.006" to 0.026"	2DNL4	100
#3	¼"	0.022" to 0.042"	2DNL5	100
	¼"	0.006" to 0.026"	2DNL6	100
#4	5/16"	0.002" to 0.042"	2DNL7	100
	5/16"	0.006" to 0.026"	2DNL8	100
#6	⅜"	0.002" to 0.042"	2DNL9	100
	⅜"	0.006" to 0.026"	2DNN1	100

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
#8	⅜"	0.002" to 0.042"	2DNN2	100
	⅜"	0.006" to 0.026"	2DNN3	100
#10	7/16"	0.053" to 0.073"	2DNN4	100
	7/16"	0.022" to 0.042"	2DNN5	100
¼"	½"	0.053" to 0.073"	2DNN6	50
	½"	0.022" to 0.042"	2DNN7	50
5/16"	9/16"	0.053" to 0.073"	2DNN8	50
	9/16"	0.022" to 0.042"	2DNN9	50
⅜"	⅝"	0.053" to 0.073"	2DNP1	50
	⅝"	0.022" to 0.042"	2DNP2	50
7/16"	¾"	0.053" to 0.073"	2DNP3	25
	¾"	0.022" to 0.042"	2DNP4	25
½"	⅞"	0.053" to 0.073"	2DNP5	25
	⅞"	0.022" to 0.042"	2DNP6	25
9/16"	1 1/16"	0.053" to 0.073"	2DNP7	25
⅝"	1 3/16"	0.053" to 0.073"	2DNP8	25
¾"	1 5/16"	0.080" to 0.100"	2DNP9	10
⅞"	1½"	0.080" to 0.100"	2DNR1	10
1"	1¾"	0.080" to 0.100"	2DNR2	10
MS15795 ANSI Standards				
#0.1	3/16"	0.016" to 0.025"	2DNH1	100
#2	¼"	0.016" to 0.025"	2DNH2	100
#4	¼"	0.017" to 0.028"	2DNH3	100
	5/16"	0.032" to 0.040"	2DNH4	100
#6	5/16"	0.027" to 0.048"	2DNH5	100
	⅜"	0.036" to 0.065"	2DNH6	100
#8	⅜"	0.036" to 0.065"	2DNH7	100
	7/16"	0.036" to 0.065"	2DNH8	100
#10	7/16"	0.036" to 0.065"	2DNH9	100
	½"	0.036" to 0.065"	2DNJ1	100

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
#12	9/16"	0.051" to 0.080"	2DNJ2	50
¼"	⅝"	0.051" to 0.080"	2DNJ3	50
	47/64"	0.051" to 0.080"	2DNJ4	50
5/16"	1 1/16"	0.051" to 0.080"	2DNJ5	50
	⅞"	0.064" to 0.104"	2DNJ6	25
⅜"	13/16"	0.051" to 0.080"	2DNJ7	25
	1"	0.064" to 0.104"	2DNJ8	25
7/16"	59/64"	0.051" to 0.080"	2DNJ9	25
	1¼"	0.064" to 0.104"	2DNK1	5
½"	1 1/16"	0.074" to 0.121"	2DNK2	5
	1⅜"	0.086" to 0.132"	2DNK3	5
⅝"	1 5/16"	0.074" to 0.121"	2DNK4	5
	1¾"	0.108" to 0.160"	2DNK5	5
¾"	1 15/32"	0.108" to 0.160"	2DNK6	5
	2"	0.122" to 0.177"	2DNK7	1
⅞"	1¾"	0.108" to 0.160"	2DNK8	1
	2¼"	0.136" to 0.192"	2DNK9	1
1"	2"	0.108" to 0.160"	2DNL1	1
	2½"	0.136" to 0.192"	2DNL2	1
NAS620 ANSI Standards				
#0	3/32"	0.014" to 0.018"	2DNR3	100
#2	5/32"	0.014" to 0.018"	2DNR4	100
#3	3/16"	0.029" to 0.035"	2DNR5	100
	3/16"	0.014" to 0.018"	2DNR6	100
#4	13/64"	0.029" to 0.035"	2DNR7	100
	13/64"	0.014" to 0.018"	2DNR8	100
#5	15/64"	0.029" to 0.035"	2DNR9	100
	15/64"	0.014" to 0.018"	2DNT1	100
#6	17/64"	0.029" to 0.035"	2DNT2	100
	17/64"	0.014" to 0.018"	2DNT3	100

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
#8	19/64"	0.029" to 0.035"	2DNT4	100
	19/64"	0.014" to 0.018"	2DNT5	100
#10	23/64"	0.059" to 0.067"	2DNT6	50
	23/64"	0.029" to 0.035"	2DNT7	50
¼"	15/32"	0.059" to 0.067"	2DNT8	50
	15/32"	0.029" to 0.035"	2DNT9	50
NAS1149 ANSI Standards				
#2	¼"	0.028" to 0.036"	2DNV9	100
#3	¼"	0.028" to 0.036"	2DNW1	100
#4	5/16"	0.028" to 0.036"	2DNW2	100
#5	7/16"	0.037" to 0.047"	2DNW3	100
#6	⅜"	0.028" to 0.036"	2DNW4	100
#8	⅜"	0.028" to 0.036"	2DNW5	100
#10	7/16"	0.028" to 0.036"	2DNU1	100
	7/16"	0.057" to 0.069"	2DNU2	100
¼"	½"	0.028" to 0.036"	2DNU3	50
	½"	0.057" to 0.069"	2DNU4	50
5/16"	9/16"	0.028" to 0.036"	2DNU5	50
	9/16"	0.057" to 0.069"	2DNU6	50
⅜"	⅝"	0.028" to 0.036"	2DNU7	50
	⅝"	0.057" to 0.069"	2DNU8	50
7/16"	¾"	0.028" to 0.036"	2DNU9	25
	¾"	0.057" to 0.069"	2DNV1	25
½"	⅞"	0.028" to 0.036"	2DNV2	25
	⅞"	0.057" to 0.069"	2DNV3	25
9/16"	1 1/16"	0.028" to 0.036"	2DNV4	10
⅝"	1 3/16"	0.057" to 0.069"	2DNV5	5
¾"	1 5/16"	0.082" to 0.098"	2DNV6	5
⅞"	1½"	0.082" to 0.098"	2DNV7	5

Scan. Order. Done.
Details on page A1.

Thick and Extra-Thick Flat Washers



Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
#0	1/8"	0.016"	22UF83	50
#1	5/32"	0.016"	22UF84	50
#2	3/16"	0.031"	22UF85	50
#4	1/4"	0.063"	22UF86	50
	5/16"	0.078"	22UF87	50
#6	5/16"	0.063"	22UF88	50
#8	3/8"	0.063"	22UF90	50
#6	3/8"	0.078"	22UF91	50
#8	7/16"	0.078"	22UF92	50
#10	1/2"	0.094"	22UF93	50
1/4"	1/2"	0.078"	22UF95	50
	5/8"	0.125"	22UF97	50
	5/8"	0.188"	22UF98	50
5/16"	47/64"	0.065"	29DR32	50
	5/8"	0.094"	22UF99	50
	11/16"	0.094"	22UG02	50
	3/4"	0.094"	22UG04	50
	3/4"	0.125"	22UG05	50
	3/4"	0.188"	22UG06	50
	7/8"	0.083"	29DR33	50
3/8"	3/4"	0.094"	22UG08	50
	7/8"	0.125"	22UG10	50
	1"	0.125"	22UG11	50
	1"	0.083"	29DR34	50
7/16"	29/32"	0.125"	22UG14	25
	1"	0.125"	22UG15	25
	1"	0.188"	22UG16	25
1/2"	1 1/16"	0.188"	22UG19	25
	1 1/8"	0.125"	22UG20	25
	1 1/8"	0.188"	22UG21	25
	1 3/8"	0.109"	29DR36	25
	1 3/8"	0.109"	42KM43	550
9/16"	1 13/16"	0.188"	22UG24	25
	1 15/32"	0.109"	42KM44	500
5/8"	1 3/8"	0.125"	22UG27	25
	1 3/4"	0.134"	42KM45	775
3/4"	1 5/8"	0.125"	26WC58	20
	1 5/8"	0.25"	22UG33	20
	1 1/2"	0.219"	26WC57	20
	2"	0.148"	42KM46	500
7/8"	1 3/4"	0.156"	19NT66	5
	1 3/4"	0.25"	22UG37	5
	1 3/4"	5/32"	5RU70	5
	2 1/4"	0.165"	42KM47	140
1"	2"	0.188"	22UG41	5
	2 1/2"	0.165"	42KM48	110
1 1/8"	2 3/4"	0.165"	42KM49	95
1 1/4"	3"	0.165"	42KM50	80
1 3/8"	2 3/4"	1/4"	1JUX4	1
	3 1/4"	0.180"	42KM51	110
1 1/2"	3"	1/4"	1JUX6	1
	3"	1/8"	1JUX5	1
	3 1/2"	0.180"	42KM52	55

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
1 3/4"	3 3/8"	1/4"	1JUX7	1
2"	3 3/4"	1/4"	1JUX8	1
2 1/2"	4 1/2"	5/16"	1JUX9	1
3"	5 1/2"	5/16"	1JUY1	1
3 1/2"	6 1/2"	5/16"	1JUY2	1
4"	7 1/2"	5/16"	1JUY3	1
7/16"	1 1/4"	0.083"	29DR35	25
304 Stainless Steel Finish				
3/8"	1"	0.188"	22UG12	50
5/8"	1 5/16"	0.219"	22UG26	25
1"	2"	0.281"	22UG43	5
	2"	0.109"	22UG44	5
1 1/8"	2 1/4"	0.219"	22UG46	5
316 Stainless Steel Plain Finish				
7/16"	1 1/4"	0.083"	42KV44	925
1/2"	1 3/8"	0.109"	42KV45	550
3/8"	1 3/4"	0.134"	42KV46	275
7/8"	2 1/4"	0.165"	42KV47	135
1"	2 1/2"	0.165"	42KV48	110
1 1/8"	2 3/4"	0.165"	42KV49	95
1 1/4"	3"	0.165"	42KV50	80
1 3/8"	3 1/4"	0.180"	42KV51	110
1 1/2"	3 1/2"	0.180"	42KV52	55
Case Hardened Steel Black Oxide Finish				
1/4"	5/8"	3/16"	5RY23	10
5/16"	3/4"	3/16"	5RY26	10
3/8"	1"	3/16"	5RY29	10
7/16"	1"	3/16"	5RY32	5
1/2"	1 1/8"	3/16"	5RY34	5
5/8"	1 3/8"	3/16"	5RY37	5
3/4"	1 5/8"	1/4"	5RY40	5
7/8"	1 3/4"	1/4"	5RY43	5
1"	2"	3/16"	5RU71	5
	2"	9/32"	5RY46	1
1 1/8"	2 1/4"	7/32"	5RU74	5
1 1/4"	2 1/2"	9/32"	5RU76	5
Case Hardened Steel Plain Finish				
#4	5/16"	0.078"	22UF71	100
#6	3/8"	0.078"	22UF72	100
#8	7/16"	0.078"	22UF73	100
#10	1/2"	0.094"	22UF74	100
1/4"	5/8"	0.125"	22UF75	100
5/16"	3/4"	0.125"	22UF76	100
3/8"	7/8"	0.125"	22UF77	50
7/16"	1"	0.125"	22UF78	50
3/4"	1 5/8"	0.125"	22UF81	20
7/8"	1 3/4"	0.156"	22UF82	10
Low Carbon Steel Hot Dipped Galvanized Finish				
1/4"	69/94"	0.065"	25DK20	100
5/16"	7/8"	0.0625"	1KA15	100
3/8"	1"	0.0781"	1KA16	100
7/16"	1 1/4"	0.083"	25DK22	50
1/2"	1 3/8"	0.109"	42JX08	550
	1 3/8"	0.1094"	1KA17	50

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
5/8"	1 3/4"	0.134"	42JX10	500
	1 3/4"	0.1406"	1KA18	25
3/4"	2"	0.148"	25DK25	20
7/8"	2 1/4"	0.165"	22UF25	10
1"	2 1/2"	0.165"	22UG23	5
	2 1/2"	0.165"	42JX13	110
1 1/4"	3"	0.165"	25DK27	5
1 1/2"	3 1/2"	0.180"	29DN11	5
Low Carbon Steel Plain Finish				
3/16"	9/16"	0.049"	2DA29	100
1/2"	1 3/8"	0.109"	38TT82	550
9/16"	1 15/32"	0.109"	25DK13	25
5/8"	1 3/4"	0.134"	38TT83	275
3/4"	2"	0.148"	38TT96	340
7/8"	2 1/4"	0.165"	38TT85	140
1"	2 1/2"	0.165"	38TT84	110
1 1/8"	2 3/4"	0.165"	42JW85	95
1 1/4"	3"	0.165"	42JW86	80
1 3/8"	3 1/4"	0.180"	25DK15	5
	3 1/4"	0.180"	42JW87	110
1 1/2"	3 1/2"	0.180"	22UE20	5
	3 1/2"	0.180"	42JW88	55
1 3/4"	4"	0.180"	22UE13	5
2"	4 1/2"	0.180"	22UE14	5
2 1/2"	5"	0.238"	22UE15	5
Low Carbon Steel Zinc Plated Finish				
1/4"	69/94"	0.065"	25DK18	100
7/16"	1 1/4"	0.083"	42JW92	950
9/16"	1 1/2"	0.109"	22UH13	25
5/8"	1 3/4"	0.134"	42JW95	350
3/4"	2"	0.156"	22UH15	20
	2"	0.148"	25DK19	20
1"	2 1/2"	0.165"	42JW98	110
1 1/8"	2 3/4"	0.156"	22UH17	5
1 3/8"	3 1/4"	0.180"	22UE31	5
	3 1/4"	0.180"	42JX02	60
1 1/2"	3 1/2"	0.180"	42JX03	55
Not Graded Brass Plain Finish				
#10	1/2"	3/32"	5RU46	5
1/4"	5/8"	1/8"	5RU49	5
	5/8"	3/16"	5RY24	5
5/16"	3/4"	1/8"	5RU52	5
	3/4"	3/16"	5RY27	5
3/8"	7/8"	1/8"	5RU55	5
	1"	3/16"	5RY30	5
1/2"	1 1/8"	1/8"	5RU60	5
	1 1/8"	3/16"	5RY35	5
5/8"	1 3/8"	1/8"	5RU63	5
	1 3/8"	3/16"	5RY38	5
3/4"	1 5/8"	1/4"	5RY41	1
	1 5/8"	5/32"	5RU66	5
7/8"	1 3/4"	1/4"	5RY44	1
	1 3/4"	5/32"	5RU69	5
1"	2"	3/16"	5RU72	1
	2"	9/32"	5RY47	1
Not Graded Steel Plain Finish				
1/2"	1 1/8"	0.125"	22UF79	50
Through Hardened Steel Zinc Yellow Finish				
1/4"	5/8"	3/32"	5RY64	100
5/16"	11/16"	3/32"	5RY65	100
3/8"	13/16"	1/8"	5RY66	100
7/16"	59/64"	1/8"	5RY67	50
1/2"	1 1/16"	13/64"	5RY68	50

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
9/16"	1 11/64"	11/64"	5RY69	25
5/8"	1 5/16"	7/32"	5RY70	25
3/4"	1 15/32"	0.219"	22UH26	20
7/8"	1 3/4"	1/4"	5RY72	10
1"	2"	0.25"	22UH27	5
1 1/8"	2 1/4"	0.25"	22UH28	5
1 1/4"	2 1/2"	0.25"	22UH29	5
1 3/8"	2 3/4"	1/4"	5RY76	5
1 1/2"	3"	0.25"	22UH31	5

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
M3	8.00mm	2mm	1JYC3	10
	12.00mm	3mm	1JYD7	2
M4	10.00mm	2mm	1JYC4	10
	14.00mm	3mm	1JYD8	2
M5	11.00mm	2mm	1JYC5	10
	15.00mm	3.50mm	1JYD9	2
M6	13.00mm	2.50mm	1JYC6	10
	18.00mm	4.50mm	1JYE1	2
M8	16.00mm	3mm	1JYC7	10
	22.00mm	5mm	1JYE2	2
M10	19.00mm	3mm	1JYC8	10
	23.00mm	5mm	1JYE3	2
M12	22.00mm	3mm	1JYC9	10
	26.00mm	5mm	1JYE4	2
M14	25.00mm	3mm	1JYD1	5
	27.00mm	5mm	1JYE5	2
M16	28.00mm	3.50mm	1JYD2	5
	32.00mm	5mm	1JYE6	2
M20	35.00mm	3.50mm	1JYD3	5
	35.00mm	5mm	1JYE7	1
M24	40.00mm	4mm	1JYD4	2
	43.00mm	6.50mm	1JYE8	1
M30	44.00mm	4mm	1JYD5	2
Case Hardened Steel Black Oxide Finish				
M3	8.00mm	2mm	5RE85	25
	12.00mm	3mm	5RE98	5
M4	10.00mm	2mm	5RE86	25
	14.00mm	3mm	5RE99	5
M5	11.00mm	2mm	5RE87	10
	15.00mm	3.50mm	5RU10	5
M6	13.00mm	2.50mm	5RE88	10
	18.00mm	4.50mm	5RU11	5
M8	16.00mm	3mm	5RE89	10
	22.00mm	5mm	5RU12	5
M10	19.00mm	3mm	5RE90	10
	23.00mm	5mm	5RU13	5
M12	22.00mm	3mm	5RE91	10
	26.00mm	5mm	5RU14	5
M14	25.00mm	3mm	5RE92	10
	27.00mm	5mm	5RU15	5
M16	28.00mm	3.50mm	5RE93	10
	32.00mm	5mm	5RU16	5
M20	35.00mm	3.50mm	5RE94	10
	35.00mm	5mm	5RU17	5
M24	40.00mm	4mm	5RE95	5
	43.00mm	6.50mm	5RU18	5
M30	44.00mm	4mm	5RE96	5
	48.00mm	6.50mm	5RU19	1
M36	50.00mm	5mm	5RE97	5

Through-Hardened Steel Flat Washers



Smooth hard surface for distributing bolt load. Use with Grade 8 fasteners.

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Case Hardened Steel Plain Finish				
1/2"	1 1/8"	0.125"	42JY11	950
5/8"	1 3/8"	0.125"	42JY12	625
3/4"	1 5/8"	0.125"	42JY13	340
7/8"	1 3/4"	0.156"	42JY14	330
1"	2"	0.188"	19NT67	5
	2"	0.188"	42JY15	210
1 1/8"	2 1/4"	0.219"	42JY16	140
1 1/4"	2 1/2"	0.281"	19NT69	5
	2 1/2"	0.281"	42JY17	80
Through Hardened Steel Black Oxide Finish				
1 3/8"	2 3/4"	1/4"	5RY56	1
1 1/2"	3"	1/4"	5RY57	1
1 3/4"	3 3/8"	1/4"	5RY58	1
2"	3 3/4"	1/4"	5RY59	1
2 1/2"	4 1/2"	5/16"	5RY60	1
3"	5 1/2"	5/16"	5RY61	1
3 1/2"	6 1/2"	5/16"	5RY62	1
4"	7 1/2"	5/16"	5RY63	1
Through Hardened Steel Hot Dipped Galvanized Finish				
1/2"	1 1/16"	0.097" to 0.177"	31JM16	25
5/8"	1 5/16"	0.122" to 0.177"	31JM17	10
3/4"	1 15/32"	0.122" to 0.177"	31JM18	10
7/8"	1 3/4"	0.136" to 0.177"	31JM19	5
1"	2"	0.136" to 0.177"	31JM20	5
1 1/8"	2 1/4"	0.136" to 0.177"	31JM21	5
1 1/4"	2 1/2"	0.136" to 0.177"	31JM22	5

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Through Hardened Steel Plain Finish				
1/2"	1 1/16"	0.097" to 0.177"	31JL55	25
5/8"	1 5/16"	0.122" to 0.177"	31JL56	10
3/4"	1 15/32"	0.122" to 0.177"	31JL57	10
7/8"	1 3/4"	0.136" to 0.177"	31JL58	5
1"	2"	0.136" to 0.177"	31JL59	5
1 1/8"	2 1/4"	0.136" to 0.177"	31JL60	5
1 1/4"	2 1/2"	0.136" to 0.177"	31JL61	5
Through Hardened Steel Zinc Yellow Finish				
1/4"	5/8"	0.051" to 0.080"	6PU12	100
	5/8"	0.065"	6YPJ5	100
	5/8"	0.094"	19NT70	100
	3/4"	0.051" to 0.080"	6PE76	100
	3/4"	0.065"	6YPH2	100
5/16"	11/16"	0.051" to 0.080"	6PU14	50
	11/16"	0.065"	6YPJ6	50
	11/16"	0.094"	19NT71	100
	7/8"	0.064" to 0.104"	6PE78	50
	7/8"	0.083"	6YPH3	50
3/8"	13/16"	0.051" to 0.080"	6PU16	50
	13/16"	0.065"	6YPJ7	50
	13/16"	0.125"	19NT72	100
	1"	0.064" to 0.104"	6PE80	50
	1"	0.083"	6YPH4	50
7/16"	29/32"	0.125"	19NT73	50
	59/64"	0.051" to 0.080"	6PU18	25
	59/64"	0.065"	6YPJ8	25
	1 1/4"	0.064" to 0.104"	6PE82	25
	1 1/4"	0.083"	6YPH5	25
1/2"	1 1/16"	0.095"	6YPJ9	25
	1 1/16"	0.097" to 0.121"	6PU20	25
	1 3/8"	0.086" to 0.132"	6PE84	25
	1 3/8"	0.109"	6YPH6	25
9/16"	1 13/32"	0.172"	19NT74	25
	1 13/32"	0.172"	42JY22	625
	1 3/16"	0.095"	6YPK0	25
	1 3/16"	0.097" to 0.121"	6PU22	25
	1 1/2"	0.086" to 0.132"	6PE86	25
	1 1/2"	0.109"	6YPH7	25

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
5/8"	1 5/16"	0.095"	6YPK1	25
	1 5/16"	0.122" to 0.177"	6PU24	25
	1 5/16"	0.219"	19NT75	25
	1 3/16"	0.219"	42JY23	375
	1 3/4"	0.108" to 0.160"	6PE88	25
	1 3/4"	0.134"	6YPH8	25
3/4"	1 15/32"	0.219"	42JY24	320
	1 15/32"	0.122" to 0.177"	6PU26	20
	1 15/32"	0.134"	6YPK2	20
	2"	0.122" to 0.177"	6PE90	20
	2"	0.148"	6YPH9	20
7/8"	1 3/4"	0.134"	6YPK3	10
	1 3/4"	0.136" to 0.177"	6PU28	10
	1 3/4"	0.25"	19NT76	10
	1 3/4"	0.250"	42JY25	200
	2 1/4"	0.136" to 0.192"	6PE92	10
	2 1/4"	0.165"	6YPJ0	10
1"	2"	0.134"	6YPK4	10
	2"	0.136" to 0.177"	6PU30	10
	2"	0.250"	42JY26	160
	2 1/2"	0.136" to 0.192"	6PE94	10
	2 1/2"	0.165"	6YPJ1	10
1 1/8"	2 1/4"	0.134"	6YPK5	10
	2 1/4"	0.136" to 0.177"	6PU32	10
	2 1/4"	0.250"	42JY27	115
	2 3/4"	0.136" to 0.192"	6PE96	5
	2 3/4"	0.165"	6YPJ2	5
1 1/4"	2 1/2"	0.136" to 0.177"	6PU34	10
	2 1/2"	0.165"	6YPK6	10
	2 1/2"	0.250"	42JY28	100
	3"	0.136" to 0.192"	6PE98	5
	3"	0.165"	6YPJ3	5
1 3/8"	2 3/4"	0.25"	19NT77	5
	2 3/4"	0.250"	42JY29	80
1 1/2"	3"	0.250"	42JY30	65
	3"	0.136" to 0.177"	6PU37	5
	3"	0.165"	6YPK7	5
	3 1/2"	0.136" to 0.192"	6PU10	5
	3 1/2"	0.180"	6YPJ4	5
Through Hardened Steel Zinc Yellow Finish				
M30	56.00mm	5mm	2WY69	10

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Nonmetallic Flat Washers

Buna-N—Create a reliable seal against air, water, oils, and fuels.

Cork Rubber—Create a reliable seal against oils and fuels.

EPDM—Resistant to weather, sunlight, ozone, abrasion, and water.

Neoprene—Resists fuels, sunlight, ozone, and oxidation.

Nylon—Strong, abrasion-resistant material offers low friction coefficient, electrical insulation, and noise dampening. Natural finish.

- Bulk nylon washers are available on Grainger.com®

Phenolic—Tough, lightweight material resists distortion under pressure. Ideal insulation for electronic assembly requiring moisture resistance.

Polyurethane—Recommended for high-impact operations or intense load bearing applications. Resists ozone, oxygen, oil, and grease; also long-term resistant to water in temperatures up to 120°F.

PTFE—Offer high temperature and chemical resistance, low coefficient of friction, and excellent electrical properties. For cushioning and sealing applications.

Santoprene—Fatigue-resistant, low-compression set rubber is for use in automotive, consumer, and appliance applications.

SBR with Inserted Cloth—2-ply nylon cloth-reinforced for excellent abrasion resistance. Ideal for cold weather, hot water, and low-pressure steam applications.

Silicone—Semiorganic synthetic looks and feels like organic rubber. Offer excellent fatigue and flexibility. Resistant to a wide range of temperatures.



Viton—This specified fluoroelastomer is known for its excellent heat-resistance.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Buna-N, Black			
¼"	0.500"	4PAH1	10
	0.625"	4PAH2	10
5⁄16"	0.625"	4PAH3	10
	0.750"	4PAH4	10
⅜"	0.625"	4PAH5	10
	0.750"	4PAH6	10
½"	0.875"	4PAH7	5
	1.000"	4PAH8	5
⅝"	1.000"	4PAH9	5
	1.500"	4PAJ1	5
¾"	1.500"	4PAJ2	5
	2.000"	4PAJ3	5
1"	1.500"	4PAJ4	5
	2.000"	4PAJ5	5
Cork Rubber,			
¼"	0.500"	4PAJ6	10
	0.625"	4PAJ7	10
5⁄16"	0.625"	4PAJ8	10
	0.750"	4PAJ9	10
⅜"	0.625"	4PAK1	10
	0.750"	4PAK2	10
½"	0.875"	4PAK3	5
	1.000"	4PAK4	5
⅝"	1.000"	4PAK5	5
	1.500"	4PAK6	5
¾"	1.500"	4PAK7	5
	2.000"	4PAK8	5
1"	1.500"	4PAK9	5
	2.000"	4PAL1	5
EPDM, Black			
#6	0.250"	4PAE7	100
#8	0.312"	4PAE8	100
#10	0.375"	4PAE9	100
	0.500"	4PAF1	100
#12	0.562"	4PAF3	100
¼"	0.500"	4PAF4	100
	0.625"	4PAF5	100
5⁄16"	0.562"	4PAF6	100
	0.687"	4PAF7	100
⅜"	0.562"	4PAF8	100
	0.812"	4PAF9	100
	0.812"	4PAG1	50

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
½"	1.062"	4PAG2	100
	1.062"	4PAG3	50
⅝"	1.312"	4PAG4	50
	1.312"	4PAG5	25
¾"	1.500"	4PAG6	25
	1.500"	4PAG7	25
1"	2.000"	4PAG8	25
	2.000"	4PAG9	10
Neoprene, Black			
#6	0.250"	4PAC4	100
#8	0.312"	4PAC5	100
#10	0.375"	4PAC6	100
	0.500"	4PAC7	100
#12	0.437"	4PAC8	100
	0.562"	4PAC9	100
¼"	0.500"	4PAD1	100
	0.625"	4PAD2	100
5⁄16"	0.562"	4PAD3	100
	0.687"	4PAD4	100
⅜"	0.625"	4PAD5	100
	0.812"	4PAD6	100
	0.812"	4PAD7	50
½"	1.062"	4PAD8	50
	1.062"	4PAD9	50
⅝"	1.312"	4PAE1	50
	1.312"	4PAE2	25
¾"	1.500"	4PAE3	25
	1.500"	4PAE4	25
1"	2.000"	4PAE5	25
	2.000"	4PAE6	10
Nylon, Off White			
#0	0.179"	4DAN1	40
#2	0.196"	4DAN3	40
	0.188"	4DAN5	40
	0.250"	4DAN7	50
#3	0.220"	4DAN9	40
	0.316"	4DAP2	40
#4	0.206"	4DAP4	40
	0.250"	4DAP6	40
	0.250"	4DAP8	40
	0.280"	4DAR1	40
#5	0.285"	4DAR3	40
#6	0.312"	4DAR9	40
	0.313"	4DAR5	40

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
#5	0.400"	4DAR7	40
#6	0.438"	4DAT2	40
	0.312"	4DAT4	40
#8	0.375"	4DAT6	40
	0.408"	4DAT8	40
	0.500"	4DAU1	40
#10	0.437"	4DAU3	40
	0.562"	4DAU7	40
	0.460"	4DAU5	40
#12	0.465"	4DAU9	40
	0.472"	4DAV2	40
¼"	0.687"	4DAV4	40
	0.719"	4DAV6	40
5⁄16"	0.740"	4DAV8	40
	0.885"	4DAW1	40
⅜"	0.750"	4DAW3	40
	1.000"	4DAW5	20
7⁄16"	0.750"	4DAW7	40
½"	0.750"	4DAW9	40
	1.250"	4DAX2	20
¾"	1.057"	4DAX6	10
	2.000"	4DAX4	5
1"	2.500"	4DAX8	5
M2	5mm	4DAY8	50
M3	8mm	4DAZ2	50
M4	9mm	4DAZ5	50
M5	11mm	4DAZ8	50
M6	12mm	4DCA2	50
M8	18mm	4DCA5	50
M10	22mm	4DAY2	25
M12	25mm	4DAY5	10
Phenolic, Tan			
#4	0.312"	5RE78	5
#6	0.500"	5RE79	5
#8	0.500"	5RE80	5
#10	0.632"	5RE81	5
¼"	0.625"	5RE82	5
5⁄16"	0.569"	5RE83	5
⅜"	0.625"	5RE84	5
Polyurethane, White			
#6	0.250"	4NFG5	100
	0.250"	4NFG5	100
#8	0.312"	4NFG6	50
	0.312"	4NFG6	50

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
#10	0.375"	4NFG7	100
	0.375"	4NFG7	100
#12	0.437"	4NFG8	50
	0.437"	4NFG8	50
¼"	0.500"	4NFG9	50
	0.500"	4NFG9	50
5⁄16"	0.562"	4NFH1	25
	0.562"	4NFH1	25
⅜"	0.625"	4NFH2	25
	0.625"	4NFH2	25
½"	1.000"	4NFH3	25
	1.000"	4NFH3	25
PTFE, White			
¼"	0.500"	4NFE9	5
	0.625"	4NFF1	5
5⁄16"	0.625"	4NFF2	5
	0.750"	4NFF3	5
⅜"	0.625"	4NFF4	5
	0.750"	4NFF5	5
½"	0.875"	4NFF6	5
	1.000"	4NFF7	1
⅝"	1.000"	4NFF8	1
	1.500"	4NFF9	1
¾"	1.500"	4NFG1	5
	2.000"	4NFG2	5
1"	1.500"	4NFG3	1
	2.000"	4NFG4	5
Santoprene, Black			
#6	0.250"	4PAL2	100
#8	0.312"	4PAL3	100
#10	0.500"	4PAL4	50
#12	0.562"	4PAL5	50
¼"	0.625"	4PAL6	50
5⁄16"	0.687"	4PAL7	50
⅜"	0.812"	4PAL8	50
½"	1.062"	4PAL9	50
⅝"	1.312"	4PAN1	25
¾"	1.500"	4PAN2	25
1"	2.000"	4PAN3	10
SBR with Inserted Cloth, Black			
#10	0.563"	4MZU8	10
¼"	0.750"	4MZU9	10
	1.000"	4MZV1	10

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
⅜"	1.000"	4MZV2	10
	1.500"	4MZV3	10
	2.250"	4MZV4	10
½"	1.375"	4MZV5	10
	2.250"	4MZV6	10
	3.000"	4MZV7	5
⅝"	1.750"	4MZV9	10
	2.250"	4MZW1	10
	3.000"	4MZV8	5
¾"	2.000"	4MZW2	10
	2.250"	4MZW3	10
	3.000"	4MZW4	5
⅞"	2.250"	4MZW5	10
	3.000"	4MZW6	5
1"	2.250"	4MZW7	10
	2.500"	4MZW8	10
	3.000"	4MZW9	5
1½"	2.500"	4MZX1	5
	3.000"	4MZX2	5
Silicone, Red			
#6	0.250"	4PAR6	100
#8	0.312"	4PAR7	100
#10	0.500"	4PAR8	50
#12	0.562"	4PAR9	50
¼"	0.625"	4PAT1	50
5⁄16"	0.687"	4PAT2	50
⅜"	0.812"	4PAT3	50
½"	1.062"	4PAT4	25
⅝"	1.312"	4PAT5	10
¾"	1.500"	4PAT6	10
1"	2.000"	4PAT7	10
Viton, Black			
#6	0.250"	4PAN4	50
#8	0.312"	4PAN5	50
#10	0.500"	4PAN6	25
#12	0.563"	4PAN7	25
¼"	0.625"	4PAN8	10
5⁄16"	0.687"	4PAN9	10
⅜"	0.812"	4PAR1	10
½"	1.062"	4PAR2	5
⅝"	1.312"	4PAR3	5
¾"	1.500"	4PAR4	1
1"	2.000"	4PAR5	1

NL-19℠ Washers

FOREVER-BOLT®

Proprietary metal treatment produces brighter finish, increased strength, and superior corrosion resistance.



Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Flat Washer			
18-8 Stainless Steel			
NL-19(SM) Finish			
#6	⅜"	36RK68	100
#8	7⁄16"	36RK70	100
#10	7⁄16"	36RK73	100
	½"	36RK72	100
#12	9⁄16"	36RK74	100
¼"	⅝"	36RK76	100
	¾"	36RK79	50
5⁄16"	11⁄16"	36RK82	25
	¾"	36RK81	100
	⅞"	36RK84	100
⅜"	13⁄16"	36RK85	25
	1"	36RK86	25
7⁄16"	59⁄64"	36RK89	25
	1⅛"	36RK88	100
½"	1 1⁄16"	36RK90	10
	1¼"	36RK92	100
⅝"	1 5⁄16"	36RK93	10
	1½"	36RK94	50
¾"	1½"	36RK96	1
	1¾"	36RK97	25
⅞"	2"	36RK98	25
1"	2½"	36RK99	10
M5	10.00mm	36RL20	100
M6	12.00mm	36RL21	100

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
M8	16.00mm	36RL22	100
M10	20.00mm	36RL23	100
M12	24.00mm	36RL24	100
M16	30.00mm	36RL25	25
M20	37.00mm	36RL26	10
316 Stainless Steel NL-19(SM) Finish			
#8	7⁄16"	36RL01	100
#10	½"	36RL02	100
#12	9⁄16"	36RL03	25
¼"	⅝"	36RK66	100
	¾"	36RL06	100
5⁄16"	11⁄16"	36RL07	10
	⅞"	36RL08	100
⅜"	13⁄16"	36RL09	10
	1"	36RL11	100
7⁄16"	1¼"	36RL12	100
½"	1 1⁄16"	36RL13	5
	1⅜"	36RL14	50
⅝"	1½"	36RK67	10
	1¾"	36RL15	10
¾"	1½"	36RL16	1
	2"	36RL17	10
⅞"	2¼"	36RL18	10
1"	2½"	36RL19	10
M6	12.00mm	36RL27	100
M8	16.00mm	36RL28	100
M10	20.00mm	36RL29	100

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Large OD Flat Washer			
18-8 Stainless Steel			
NL-19(SM) Finish			
¼"	1"	36RK40	25
	1¼"	36RK41	25
	1½"	36RK42	25
	2"	36RK43	10
5⁄16"	1¼"	36RK44	10
	1½"	36RK45	10
⅜"	1¼"	36RK46	10
	1½"	36RK47	10
	1⅝"	36RK48	10
	2"	36RK49	10
½"	1½"	36RK50	10
	2"	36RK51	10
M6	18.00mm	36RK59	50
M8	24.00mm	36RK60	25
M10	30.00mm	36RK61	10
M12	37.00mm	36RK62	10
316 Stainless Steel NL-19(SM) Finish			
¼"	1"	36RK52	25
	1¼"	36RK53	25
5⁄16"	1¼"	36RK54	10
	1½"	36RK55	10
⅜"	1¼"	36RK56	5
	1½"	36RK57	5
½"	2"	36RK58	5

Metric Blue® Alloy Flat Washers

Blue coating provides easy metric identification.





Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Alloy Steel Metric Blue Finish			
M6	13.00mm	5YMX9	25
M8	18.80mm	5YMY0	50
M10	20.00mm	5YMY1	25
M12	25.40mm	5YMY2	10
M16	32.00mm	5YMY3	5
M20	39.00mm	5YMY4	5
M24	44.00mm	5YMY5	5

Armor Coat® Flat Washers

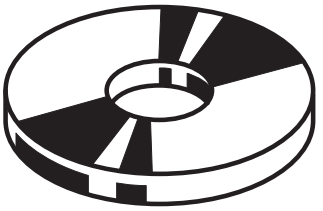




- Tensile strength: 150,000 psi

Coated to protect against harsh environments; provides 250% greater strength than stainless steel. Rust-resistant. Meet ASME B18.22.1 standard.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Through Hardened Steel Armor Coat Finish			
¼"	⅜"	5DKA7	100
	¾"	5DKC4	100
5⁄16"	11⁄16"	5DKA8	50
	⅞"	5DKC5	50
⅜"	13⁄16"	5DKA9	50
	1"	5DKC6	50
7⁄16"	59⁄64"	5DKC0	25
	1¼"	5DKC7	25
½"	1 1⁄16"	5DKC1	25
	1⅜"	5DKC8	25
⅝"	1 5⁄16"	5DKC2	25
	1¾"	5DKC9	25
¾"	1 15⁄32"	5DKC3	20
	2"	5DKD0	20



Fender Washers

Feature a large outside dia. Use where an extra-wide bearing surface is required or to cover an oversized hole. Washers have an outside dia. that is approximately 3 times the bolt dia.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
#6	1/8"	5/8"	19NR82	50
	9/64"	5/8"	4ARR1	50
	5/32"	9/16"	4ARR2	50
	5/32"	9/16"	19NR83	50
1/8"	5/32"	5/8"	35YU95	50
	5/32"	3/4"	19NR84	50
#8	11/64"	3/4"	4ARR3	50
3/16"	3/16"	1/2"	35YU97	50
#10	3/16"	1/2"	19NR85	50
#8	3/16"	11/16"	19NR86	50
3/16"	3/16"	3/4"	19NR88	50
5/32"	3/16"	7/8"	35YU96	50
	3/16"	1"	19NR87	50
3/16"	3/16"	1 1/4"	22UE81	50
	3/16"	1 1/2"	35YU98	50
	13/64"	1/2"	4ARR5	50
	13/64"	11/16"	4ARR6	50
#10	13/64"	3/4"	4ARR8	50
	13/64"	1"	4ARR7	50
	7/32"	1"	1JUY4	1
	9/32"	1/2"	22UE82	50
	9/32"	9/16"	22UE83	50
	9/32"	7/8"	22UE84	50
	9/32"	1"	22UE85	50
	9/32"	1 1/4"	22UE86	50
1/4"	9/32"	1 1/4"	22UE87	50
	9/32"	1 1/2"	1JUY5	1
	9/32"	1 1/2"	22UE88	50
	9/32"	1 49/64"	35YU99	50
	9/32"	2"	22UE89	50
	9/32"	2 1/2"	35YV01	50
	9/32"	3"	35YV02	50
	5/16"	1 3/4"	35YV06	50
	5/16"	2 1/2"	35YV07	50
	5/16"	3"	35YV08	50
	11/32"	5/8"	22UE90	50
	11/32"	7/8"	35YV03	50
5/16"	11/32"	1"	35YV04	50
	11/32"	1 1/4"	22UE91	50
	11/32"	1 1/2"	22UE92	50
	11/32"	1 5/8"	35YV05	50
	11/32"	2"	1JUY6	1
	11/32"	2"	1JUY7	1
	11/32"	2"	22UE93	50
	3/8"	1 3/4"	35YV09	50
	3/8"	3"	35YV10	50
	13/32"	1 1/4"	22UE94	50
	13/32"	1 1/2"	22UE95	50
	13/32"	1 5/8"	22UE96	50
	13/32"	2"	1JUY8	1
	13/32"	2"	1JUY9	1
	13/32"	2"	22UE97	50

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
	1/2"	1 1/4"	35YV11	25
	1/2"	1 3/4"	35YV12	25
	1/2"	2 1/2"	35YV13	25
1/2"	1/2"	3"	35YV14	25
	17/32"	1 1/2"	26WC53	25
	17/32"	2"	1JUZ1	1
	17/32"	2"	1JUZ2	1
	17/32"	2"	26WC54	25
5/8"	11/16"	2 1/2"	1JUZ3	1
	11/16"	2 1/2"	1JUZ4	1
3/4"	13/16"	3"	1JUZ5	1
7/8"	15/16"	3 1/4"	1JUZ6	1
1"	1 1/16"	3 1/2"	1JUZ7	1
1 1/4"	1 3/8"	4"	1JUZ8	1
316 Stainless Steel Plain Finish				
#6	1/8"	5/8"	35YV15	50
	5/32"	9/16"	22UE98	50
1/8"	5/32"	3/4"	22UE99	50
5/32"	5/32"	7/8"	35YV16	50
3/16"	3/16"	1/2"	22UF01	50
#8	3/16"	11/16"	22UF02	50
	3/16"	3/4"	22UF03	50
3/16"	3/16"	1"	22UF04	50
	3/16"	1 1/2"	35YV17	50
	7/32"	1 1/4"	22UF05	50
	1/4"	1 3/4"	35YV18	50
	1/4"	2 1/2"	35YV19	50
	1/4"	3"	35YV20	50
	9/32"	1/2"	22UF06	50
1/4"	9/32"	9/16"	22UF07	50
	9/32"	7/8"	22UF08	50
	9/32"	1"	22UF09	50
	9/32"	1 1/4"	22UF10	50
	9/32"	1 1/2"	22UF11	50
	9/32"	2"	22UF12	50
	5/16"	7/8"	35YV21	50
	5/16"	1"	35YV22	50
	5/16"	1 5/8"	35YV23	50
	5/16"	1 3/4"	35YV24	50
5/16"	5/16"	2 1/2"	35YV25	50
	5/16"	3"	35YV26	50
	11/32"	5/8"	22UF13	50
	11/32"	1 1/4"	22UF14	50
	11/32"	1 1/2"	22UF15	50
	11/32"	2"	22UF16	50
	3/8"	1 3/4"	35YV27	50
	3/8"	3"	35YV28	50
3/8"	13/32"	1 1/4"	22UF17	50
	13/32"	1 1/2"	22UF18	50
	13/32"	1 5/8"	22UF19	50
	13/32"	2"	22UF20	50

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
	1/2"	1 1/4"	35YV29	25
	1/2"	1 3/4"	35YV30	25
1/2"	1/2"	2 1/2"	35YV31	25
	1/2"	3"	35YV32	25
	17/32"	1 1/2"	22UF21	25
	17/32"	2"	22UF22	25
A2 Stainless Steel Plain Finish				
M2.5	2.70mm	8.00mm	26WC41	50
M3	3.20mm	9.00mm	26WC42	50
M4	4.30mm	12.00mm	26WC43	50
M5	5.30mm	15.00mm	26WC44	50
M6	6.40mm	18.00mm	6EU88 *	50
M8	8.40mm	24.00mm	22UE76	50
M10	10.50mm	30.00mm	22UE77	50
M12	13.00mm	37.00mm	22UE78	25
M16	17.00mm	50.00mm	22UE79	10
M20	22.00mm	60.00mm	6EU98 *	5
Low Carbon Steel Plain Finish				
1/8"	5/32"	5/8"	35YU66	100
	5/32"	3/4"	35YU67	100
3/16"	3/16"	1/2"	35YU69	100
	3/16"	3/4"	35YU70	100
5/32"	3/16"	7/8"	35YU68	100
	3/16"	1"	35YU71	100
3/16"	3/16"	1 1/4"	35YU72	100
	3/16"	1 1/2"	35YU73	100
	9/32"	7/8"	35YU74	100
	9/32"	1"	35YU75	100
	9/32"	1 1/4"	35YU76	100
1/4"	9/32"	1 1/2"	35YU77	100
	9/32"	2"	35YU78	100
	9/32"	2 1/2"	35YU79	100
	9/32"	3"	35YU80	100
	11/32"	1 1/4"	35YU81	100
	11/32"	1 1/2"	35YU82	100
5/16"	11/32"	1 5/8"	35YU83	100
	11/32"	2"	35YU84	100
	11/32"	2 1/2"	35YU85	100
	11/32"	3"	35YU86	100
	13/32"	1 1/4"	35YU87	100
	13/32"	1 1/2"	35YU88	100
3/8"	13/32"	1 5/8"	35YU89	100
	13/32"	2"	35YU90	100
	13/32"	3"	35YU91	100
	17/32"	1 1/2"	35YU92	50
1/2"	17/32"	2"	35YU93	50
	17/32"	3"	35YU94	50
Low Carbon Steel Zinc Plated Finish				
#6	1/8"	5/8"	22UF23	100
	5/32"	9/16"	22UF24	100
1/8"	5/32"	3/4"	1VHF1	100
3/16"	3/16"	1/2"	22UF26	100
#10	3/16"	11/16"	22UF27	100
#8	3/16"	3/4"	6YY51	100
5/32"	3/16"	7/8"	6ULA4	100
3/16"	3/16"	1 1/4"	53GK10	100
#10	13/64"	3/4"	6ULA2	100
	13/64"	3/4"	6ULA5	100
3/16"	13/64"	1"	6ULA6	100
	13/64"	1 1/4"	6ULA7	100
#10	7/32"	3/4"	6ULA3	100
	7/32"	3/4"	1JLP7	100
3/16"	7/32"	3/4"	19NP76	100
#10	7/32"	1"	22UF28 †	100
	7/32"	1"	22UF29 †	100
3/16"	7/32"	1"	1VHF4	100
	7/32"	1 1/2"	22UF31	100

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
	9/32"	1/2"	22UF32	100
	9/32"	9/16"	22UF33	100
	9/32"	7/8"	22UF34	100
	9/32"	1"	6YY54	100
	9/32"	1 1/4"	6YY55	100
	9/32"	1 1/2"	6YY56	100
1/4"	9/32"	1 1/2"	6ULA8	100
	9/32"	1 1/2"	22UF36 †	100
	9/32"	1 1/2"	22UF37 †	100
	9/32"	1 3/4"	35HV74	100
	9/32"	2"	22UF38	100
	9/32"	2 1/2"	22UF39	100
	9/32"	3"	22UF40	100
	11/32"	5/8"	22UF41	100
	11/32"	7/8"	35HV75	100
	11/32"	1"	35HV76	100
	11/32"	1 1/4"	6YY57	100
	11/32"	1 1/2"	6YY58	100
	11/32"	1 1/2"	6ULC0	100
5/16"	11/32"	1 5/8"	6ULA9	100
	11/32"	1 3/4"	35HV77	100
	11/32"	2"	6ULC1	50
	11/32"	2"	22UF42	100
	11/32"	2"	22UF44 †	100
	11/32"	2"	22UF45 †	100
	11/32"	2 1/2"	22UF46	100
	11/32"	3"	22UF47	100
	13/32"	1 1/4"	6YY59	100
	13/32"	1 1/2"	6YY60	100
	13/32"	1 1/2"	6ULC2	100
	13/32"	1 5/8"	22UF48	100
3/8"	13/32"	1 3/4"	35HV78	100
	13/32"	2"	6YY61	100
	13/32"	2"	6ULC3	100
	13/32"	2"	22UF49 †	100
	13/32"	2"	22UF50 †	100
	13/32"	3"	22UF51	100
	17/32"	1 1/4"	35HV79	50
	17/32"	1 1/2"	6YY62	50
	17/32"	1 1/2"	6ULC4	50
	17/32"	1 3/4"	35HV80	50
1/2"	17/32"	2"	6YY63	50
	17/32"	2"	6ULC5	50
	17/32"	2"	22UF52 †	50
	17/32"	2 1/2"	35HV81	50
	17/32"	3"	22UF54	50
	9/16"	3"	22UF55 †	50
	11/16"	2 1/2"	22UF56 †	25
5/8"	11/16"	2 1/2"	22UF57 †	25
	11/16"	3"	22UF58 †	25
	25/32"	3"	22UF59 †	20
3/4"	25/32"	3"	22UF60 †	20
	25/32"	3"	22UF61 †	20
	15/16"	3"	22UF62 †	10
7/8"	15/16"	3 1/4"	22UF63 †	10
	15/16"	3 1/4"	22UF64 †	10
	1 1/16"	3 1/4"	22UF66 †	5
1"	1 1/16"	3 1/2"	22UF67 †	5
	1 1/16"	3 1/2"	22UF68 †	5
M2.5	2.70mm	8.00mm	29DJ19	100
M3	3.20mm	9.00mm	6EY27 *	100
M4	4.30mm	12.00mm	6EY29 *	100
M5	5.30mm	15.00mm	6EY31 *	100
M6	6.40mm	18.00mm	6EY33 *	100
M8	8.40mm	24.00mm	6EY35 *	100
M10	10.50mm	30.00mm	22UE73	100
M12	13.00mm	37.00mm	22UE74	50
M16	17.00mm	50.00mm	6EY41 *	25
M20	22.00mm	60.00mm	6EY43 *	10
Steel Zinc Plated Finish				
1/2"	17/32"	2"	22UF53 †	50
7/8"	15/16"	3 1/4"	22UF65 †	10
1"	1 1/16"	3 1/2"	22UF69 †	5
1 1/4"	1 3/8"	4"	22UF70 †	5

** DIN 9021B. † ASME/ANSI B18.22.1*



DISC-LOCK

Self-Locking Standard Washers

Heavy-duty structural washers resist shock and vibration in high-stress applications.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Carbon Steel Delta Protect Finish				
1/4"	0.262"	0.495"	36RL65	200
5/16"	0.326"	0.628"	36RL66	200
3/8"	0.409"	0.705"	36RL67	200
7/16"	0.450"	0.880"	36RL68	100
1/2"	0.510"	0.937"	36RL69	100
9/16"	0.572"	1.128"	36RL70	100
5/8"	0.651"	1.247"	36RL71	100
3/4"	0.820"	1.381"	36RL72	100
7/8"	0.883"	1.470"	36RL73	100
1"	1.015"	1.610"	36RL74	100
1 1/8"	1.140"	1.715"	36RL75	25
1 1/4"	1.275"	1.875"	36RL76	25
1 3/8"	1.469"	2.196"	36RL77	25
1 1/2"	1.523"	2.196"	36RL78	25
6mm	6.66mm	12.6mm	36RL48	200
8mm	8.28mm	16.0mm	36RL49	200
10mm	10.38mm	17.9mm	36RL50	200
11mm	11.43mm	22.4mm	36RL51	100
12mm	12.95mm	23.8mm	36RL52	100
14mm	14.53mm	28.7mm	36RL53	100
16mm	16.53mm	31.7mm	36RL54	100
20mm	20.82mm	35.1mm	36RL55	100
22mm	22.44mm	37.3mm	36RL56	100
24mm	25.78mm	41.3mm	36RL57	100
27mm	28.96mm	43.6mm	36RL58	25
30mm	32.39mm	47.6mm	36RL59	25
36mm	37.30mm	55.8mm	36RL60	25
38mm	38.68mm	55.8mm	36RL61	25
Carbon Steel Zinc Finish				
#6	0.150"	0.340"	36RL62	200
#8	0.175"	0.340"	36RL63	200
3/16"	0.203"	0.401"	36RL64	200
3mm	3.81mm	8.6mm	36RL45	200
4mm	4.45mm	8.6mm	36RL46	200
5mm	5.15mm	10.2mm	36RL47	200
Stainless Steel Plain Finish				
3/16"	0.203"	0.401"	36RL79	200
1/4"	0.262"	0.495"	36RL80	200
5/16"	0.326"	0.628"	36RL81	200

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
3/8"	0.409"	0.705"	36RL82	200
7/16"	0.450"	0.880"	36RL83	200
1/2"	0.510"	0.937"	36RL84	100
9/16"	0.572"	10.128"	36RL85	100
5/8"	0.651"	10.247"	36RL86	100
3/4"	0.820"	10.381"	36RL87	100
7/8"	0.883"	10.470"	36RL88	50
1"	10.015"	10.626"	36RL89	50
5mm	5.150mm	10.2mm	36RL90	200
6mm	6.660mm	12.6mm	36RL91	200
8mm	8.280mm	16.0mm	36RL92	200
10mm	10.38mm	17.9mm	36RL93	200
11mm	11.43mm	22.4mm	36RL94	200
12mm	12.95mm	23.8mm	36RL95	100
14mm	14.53mm	28.7mm	36RL96	100
16mm	16.53mm	31.7mm	36RL97	100
20mm	20.82mm	35.1mm	36RL98	100
22mm	22.44mm	37.3mm	36RL99	50
24mm	25.78mm	41.3mm	36RM01	50

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
254 SMO Stainless Steel, Plain Finish					
#5	0.130"	0.280"	0.090"	**12W485**	10
#6	0.150"	0.300"	0.090"	**12W486**	10
	0.150"	0.350"	0.090"	**12W487**	10
#8	0.170"	0.300"	0.090"	**12W488**	10
	0.170"	0.350"	0.090"	**12W489**	10
#10	0.210"	0.350"	0.090"	**12W490**	10
	0.210"	0.430"	0.090"	**12W491**	10
¼"	0.280"	0.450"	0.090"	**12W494**	10
	0.280"	0.530"	0.090"	**12W495**	10
5⁄16"	0.340"	0.530"	0.080"	**12W496**	10
	0.340"	0.650"	0.080"	**12W497**	10
⅜"	0.410"	0.650"	0.080"	**12W498**	10
	0.410"	0.830"	0.080"	**12W499**	6
7⁄16"	0.450"	0.730"	0.090"	**12W503**	6
½"	0.530"	0.770"	0.080"	**13K477**	6
	0.530"	1.000"	0.130"	**13K478**	4
9⁄16"	0.600"	0.910"	0.130"	**13K479**	4
	0.600"	1.210"	0.130"	**13K480**	3
⅝"	0.670"	1.000"	0.120"	**13K481**	4
	0.670"	1.210"	0.100"	**13K482**	3
¾"	0.790"	1.210"	0.130"	**13K485**	3
	0.790"	1.540"	0.130"	**13K486**	2
⅞"	0.920"	1.360"	0.130"	**13K489**	2
	0.920"	1.650"	0.130"	**13K490**	1
1"	1.100"	1.540"	0.130"	**13K493**	2
	1.100"	1.910"	0.130"	**13K494**	1
1⅛"	1.240"	1.850"	0.220"	**13K497**	1
1¼"	1.350"	1.910"	0.220"	**13K499**	1
1⅜"	1.470"	2.170"	0.220"	**13K501**	1
1½"	1.590"	2.300"	0.220"	**13K502**	1
316 Stainless Steel, Plain Finish					
#5	0.130"	0.280"	0.090"	**5RUW1**	200
#6	0.150"	0.300"	0.090"	**5RUW3**	200
	0.150"	0.350"	0.090"	**5RUW5**	200
#8	0.170"	0.300"	0.090"	**5RUW7**	200
	0.170"	0.350"	0.090"	**5RUW9**	200
#10	0.210"	0.350"	0.090"	**5RUX1**	200
	0.210"	0.430"	0.090"	**5RUX3**	200
¼"	0.280"	0.450"	0.090"	**5RUX9**	200
	0.280"	0.530"	0.090"	**5RUY1**	200
5⁄16"	0.340"	0.530"	0.080"	**5RUY3**	200
	0.340"	0.650"	0.080"	**5RUY5**	200
⅜"	0.410"	0.650"	0.080"	**5RUY7**	200
	0.410"	0.830"	0.090"	**5RUY9**	200
7⁄16"	0.450"	0.730"	0.090"	**5RUZ5**	200
½"	0.530"	0.770"	0.090"	**5RVA1**	200
	0.530"	1.000"	0.130"	**5RVA3**	100
9⁄16"	0.600"	0.910"	0.130"	**5URY8**	100
	0.600"	1.210"	0.130"	**5URZ0**	100
⅝"	0.670"	1.000"	0.120"	**5URZ2**	100
	0.670"	1.210"	0.120"	**5URZ4**	100
¾"	0.790"	1.210"	0.130"	**5UTA0**	100
	0.790"	1.540"	0.130"	**5UTA2**	100
⅞"	0.920"	1.360"	0.130"	**5UTA8**	100
	0.920"	1.650"	0.130"	**5UTC0**	50
1"	1.100"	1.540"	0.130"	**5UTC6**	100
	1.100"	1.910"	0.130"	**5UTC8**	50
1⅛"	1.240"	1.850"	0.270"	**5UTD4**	50
	1.240"	2.300"	0.270"	**5UTD6**	25
1¼"	1.350"	1.910"	0.270"	**5UTD8**	25
1⅜"	1.470"	2.170"	0.270"	**5UTE1**	25
1½"	1.590"	2.300"	0.270"	**5UTE4**	25
1¾"	1.820"	2.760"	0.270"	**5UTE8**	1
2"	2.110"	3.150"	0.350"	**5UTF2**	1
2¼"	2.330"	3.350"	0.350"	**5UTF4**	1
2½"	2.640"	3.740"	0.350"	**5UTF8**	1
3"	3.110"	4.330"	0.350"	**5UTG4**	1
EN 1.7182 Carbon Steel					
#5	0.130"	0.280"	0.070"	**12W437**	20
#6	0.150"	0.300"	0.070"	**12W438**	20
	0.150"	0.350"	0.070"	**12W439**	20
#8	0.170"	0.300"	0.070"	**12W440**	20
	0.170"	0.350"	0.070"	**12W441**	20
#10	0.210"	0.350"	0.070"	**12W442**	20
	0.210"	0.430"	0.070"	**12W443**	20
¼"	0.280"	0.450"	0.070"	**12W446**	20
	0.280"	0.530"	0.100"	**12W447**	20
5⁄16"	0.340"	0.530"	0.100"	**12W448**	20
	0.340"	0.650"	0.100"	**12W449**	20
⅜"	0.410"	0.650"	0.100"	**12W450**	20
	0.410"	0.830"	0.100"	**12W451**	10
7⁄16"	0.450"	0.730"	0.100"	**12W454**	10
½"	0.530"	0.770"	0.100"	**12W457**	10
	0.530"	1.000"	0.130"	**12W458**	8
9⁄16"	0.600"	0.910"	0.130"	**12W459**	10
	0.600"	1.210"	0.130"	**12W460**	4
⅝"	0.670"	1.000"	0.130"	**12W461**	8
	0.670"	1.210"	0.130"	**12W462**	4
¾"	0.790"	1.210"	0.130"	**12W465**	4
	0.790"	1.540"	0.130"	**12W466**	2
⅞"	0.920"	1.360"	0.130"	**12W469**	2
	0.920"	1.650"	0.180"	**12W470**	2
1"	1.100"	1.540"	0.130"	**12W473**	2
	1.100"	1.910"	0.180"	**12W474**	1
1⅛"	1.240"	1.850"	0.230"	**12W477**	1
	1.240"	2.300"	0.260"	**12W478**	1
1¼"	1.350"	1.910"	0.230"	**12W479**	1
	1.350"	2.300"	0.260"	**12W480**	1
1⅜"	1.470"	2.170"	0.260"	**12W481**	1
	1.470"	2.480"	0.260"	**12W482**	1
1½"	1.590"	2.300"	0.260"	**12W483**	1
Metric 254 SMO Stainless Steel, Plain Finish					
M6	0.260"	0.430"	0.090"	**12W492**	10
	0.260"	0.530"	0.080"	**12W493**	10
M10	0.420"	0.650"	0.080"	**12W501**	10
	0.420"	0.830"	0.080"	**12W502**	6
M12	0.510"	0.770"	0.080"	**12W504**	6
	0.510"	1.000"	0.120"	**12W505**	4
M18	0.770"	1.140"	0.130"	**13K483**	3
	0.770"	1.360"	0.130"	**13K484**	2
M20	0.840"	1.210"	0.120"	**13K487**	3
	0.840"	1.540"	0.130"	**13K488**	2
M24	1.000"	1.540"	0.130"	**13K491**	2
	1.000"	1.910"	0.130"	**13K492**	1
M27	1.120"	1.650"	0.220"	**13K495**	1
	1.120"	1.910"	0.220"	**13K496**	1
Metric 316 Stainless Steel, Plain Finish					
M6	6.5mm	10.8mm	2.2mm	**5RUX5**	200
	6.5mm	13.5mm	2mm	**5RUX7**	200
M10	10.7mm	16.6mm	2mm	**5RUZ1**	200
	10.7mm	21.0mm	2mm	**5RUZ3**	200
M12	13.0mm	19.5mm	2mm	**5RUZ7**	200
	13.0mm	25.4mm	3mm	**5RUZ9**	100
M18	19.5mm	29.0mm	3.2mm	**5URZ6**	100
	19.5mm	34.5mm	3.2mm	**5URZ8**	100
M20	21.4mm	30.7mm	3mm	**5UTA4**	100
	21.4mm	39.0mm	3.2mm	**5UTA6**	100
M24	25.3mm	39.0mm	3.2mm	**5UTC2**	100
	25.3mm	48.5mm	3.2mm	**5UTC4**	50
M27	28.4mm	42.0mm	6.8mm	**5UTD0**	50
	28.4mm	48.5mm	6.8mm	**5UTD2**	25
M42	43.2mm	63.0mm	6.8mm	**5UTE6**	25
M48	49.6mm	75.0mm	6.8mm	**5UTF0**	1
M60	63.1mm	90.0mm	9mm	**5UTF6**	1
M68	71.1mm	100.0mm	9mm	**5UTG0**	1
M72	75.1mm	105.0mm	9mm	**5UTG2**	1
M80	83.1mm	115.0mm	9mm	**5UTG6**	1
Metric EN 1.7182 Carbon Steel					
M6	0.260"	0.430"	0.070"	**12W444**	20
	0.260"	0.530"	0.100"	**12W445**	20
M10	0.420"	0.650"	0.100"	**12W452**	20
	0.420"	0.830"	0.100"	**12W453**	10
M12	0.510"	0.770"	0.100"	**12W455**	10
	0.510"	1.000"	0.130"	**12W456**	8
M18	0.770"	1.140"	0.130"	**12W463**	4
	0.770"	1.360"	0.130"	**12W464**	2
M20	0.840"	1.210"	0.130"	**12W467**	4
	0.840"	1.540"	0.130"	**12W468**	2
M24	1.000"	1.540"	0.130"	**12W471**	2
	1.000"	1.910"	0.180"	**12W472**	2
M27	1.120"	1.650"	0.260"	**12W475**	1
	1.120"	1.910"	0.260"	**12W476**	1
M42	1.700"	2.480"	0.260"	**12W484**	1
Metric Steel, Delta Protect Finish					
M6	6.5mm	10.8mm	1.8mm	**5RUX6**	200
	6.5mm	13.5mm	2.5mm	**5RUX8**	200
M10	10.7mm	16.6mm	2.5mm	**5RUZ2**	200
	10.7mm	21.0mm	2.5mm	**5RUZ4**	200
M12	13.0mm	19.5mm	2.5mm	**5RUZ8**	200
	13.0mm	25.4mm	3.4mm	**5RVA0**	100
M18	19.5mm	29.0mm	3.4mm	**5URZ7**	100
	19.5mm	34.5mm	3.4mm	**5URZ9**	100
M20	21.4mm	30.7mm	3.4mm	**5UTA5**	100
	21.4mm	39.0mm	3.4mm	**5UTA7**	100
M24	25.3mm	39.0mm	3.4mm	**5UTC3**	100
	25.3mm	48.5mm	4.6mm	**5UTC5**	50
M27	28.4mm	42.0mm	6.6mm	**5UTD1**	50
	28.4mm	48.5mm	6.6mm	**5UTD3**	25
M42	43.2mm	63.0mm	6.6mm	**5UTE7**	25
M48	49.6mm	75.0mm	7mm	**5UTF1**	1
M60	63.1mm	90.0mm	7mm	**5UTF7**	1
M68	71.1mm	100.0mm	9.5mm	**5UTG1**	1
M85	88.1mm	120.0mm	9.5mm	**5UTG7**	1



NORD-LOCK®
Bolt securing systems

Nord-Lock® Bolt Securing Systems

Provides safe locking for bolted joints, even when exposed to severe vibration and dynamic loads. Features wedge-locking action; bolt is locked with the tension created between the 2 washers. Rotation of bolt/nut is blocked by wedge effect of cams. Meets DIN 25201 standards.

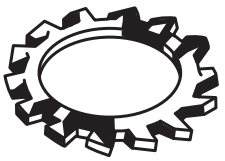
Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M90	92.4mm	130.0mm	9.5mm	**5UTG8**	1
M100	103.4mm	145.0mm	9.5mm	**5UTG9**	1
M105	108.4mm	150.0mm	9.5mm	**5UTH0**	1
M110	113.4mm	155.0mm	9.5mm	**5UTH1**	1
M115	118.4mm	165.0mm	9.5mm	**5UTH2**	1
M120	123.4mm	170.0mm	9.5mm	**5UTH3**	1
M125	128.4mm	173.0mm	9.5mm	**5UTH4**	1
M130	133.4mm	178.0mm	9.5mm	**5UTH5**	1
Steel, Delta Protect Finish					
#5	0.130"	0.280"	0.070"	**5RUW2**	200
#6	0.150"	0.300"	0.070"	**5RUW4**	200
	0.150"	0.350"	0.070"	**5RUW6**	200
#8	0.170"	0.300"	0.070"	**5RUW8**	200
	0.170"	0.350"	0.070"	**5RUX0**	200
#10	0.210"	0.350"	0.070"	**5RUX2**	200
	0.210"	0.430"	0.070"	**5RUX4**	200
¼"	0.280"	0.450"	0.070"	**5RUY0**	200
	0.280"	0.530"	0.100"	**5RUY2**	200
5⁄16"	0.340"	0.530"	0.100"	**5RUY4**	200
	0.340"	0.650"	0.100"	**5RUY6**	200
⅜"	0.410"	0.650"	0.100"	**5RUY8**	200
	0.410"	0.830"	0.100"	**5RUZ0**	200
7⁄16"	0.450"	0.730"	0.100"	**5RUZ6**	200
½"	0.530"	0.770"	0.100"	**5RVA2**	200
	0.530"	1.000"	0.130"	**5URY7**	100
9⁄16"	0.600"	0.910"	0.130"	**5URY9**	100
	0.600"	1.210"	0.130"	**5URZ1**	100
⅝"	0.670"	1.000"	0.130"	**5URZ3**	100
	0.670"	1.210"	0.130"	**5URZ5**	100
¾"	0.790"	1.210"	0.130"	**5UTA1**	100
	0.790"	1.540"	0.130"	**5UTA3**	100
⅞"	0.920"	1.360"	0.130"	**5UTA9**	100
	0.920"	1.650"	0.180"	**5UTC1**	50
1"	1.100"	1.540"	0.130"	**5UTC7**	100
	1.100"	1.910"	0.180"	**5UTC9**	50
1⅛"	1.240"	1.850"	0.130"	**5UTD5**	50
	1.240"	2.300"	0.260"	**5UTD7**	25
1¼"	1.350"	1.910"	0.260"	**5UTD9**	25
	1.350"	2.300"	0.260"	**5UTE0**	25
1⅜"	1.470"	2.170"	0.260"	**5UTE2**	25
	1.470"	2.480"	0.260"	**5UTE3**	25
1½"	1.590"	2.300"	0.260"	**5UTE5**	25
1¾"	1.820"	2.760"	0.280"	**5UTE9**	1
2"	2.110"	3.150"	0.280"	**5UTF3**	1
2¼"	2.330"	3.350"	0.280"	**5UTF5**	1
2½"	2.640"	3.740"	0.280"	**5UTF9**	1
3"	3.110"	4.330"	0.370"	**5UTG5**	1

Beveled Flat Washers

Extra-thick "Williams type" flat washers are machined, not stamped, with a large chamfer along the outer top edge.

Fits Bolt Sizes	Washer Outside Dia.	18-8 STAINLESS STEEL Item No.	Pkg. Qty.	LOW CARBON STEEL Item No.	Pkg. Qty.	CASE HARDENED STEEL Item No.	Pkg. Qty.
#10	½"	**1JYA9**	5	**5RU89**	25	**5RU90**	25
¼"	⅜"	**1JYB1**	5	**5RU91**	25	**5RU92**	25
5⁄16"	¾"	**1JYB2**	5	**5RU93**	25	**5RU94**	25
⅜"	⅞"	**1JYB3**	5	**5RU95**	25	**5RU96**	25
7⁄16"	1"	**1JYB4**	5	**5RU97**	10	**5RU98**	10
½"	1"	**1JYB5**	2	**5RU99**	10	**5RY10**	10
⅝"	1¼"	**1JYB6**	2	**5RY11**	10	**5RY12**	10
¾"	1½"	**1JYB7**	1	**5RY13**	10	**5RY14**	10
⅞"	1¾"	**1JYB8**	1	**5RY15**	5	**5RY16**	5
1"	2"	**1JYB9**	1	**5RY17**	1	**5RY18**	1
1⅛"	2¼"	**1JYC1**	1	**5RY19**	1	**5RY20**	1
1¼"	2¼"	**1JYC2**	1	**5RY21**	1	**5RY22**	1





External Tooth



Internal Tooth

Internal and External Tooth Lock Washers

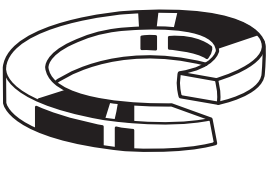
Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Countersunk External Tooth, Type A			
Steel, Zinc			
#6	0.289"	**19NT95**	100
#8	0.322"	**19NT96**	100
#12	0.421"	**19NT98**	100
¼"	0.454"	**19NT99**	100
5/16"	0.599"	**19NU01**	100
⅜"	0.765"	**19NU02**	50
External Tooth			
#6	0.320"	**6DZC4**	100
#8	0.381"	**6DZC5**	100
External Tooth, Closed Perimeter			
A2 Stainless Steel, Plain			
M5	9.0mm	**29DJ75**	50
M8	14mm	**29DJ76**	50
M10	18.0mm	**6FE71**	50
M16	26.0mm	**6FE75**	10
Steel, Zinc			
M3	6.0mm	**25DN34**	100
	6.0mm	**29DJ09**	100
M4	8.0mm	**25DN35**	100
	8.0mm	**29DJ10**	100
M5	9.0mm	**25DN36**	100
	10.0mm	**29DJ04**	100
	10.0mm	**29DJ11**	100
M6	11.0mm	**25DN37**	100
	11.0mm	**29DJ12**	100
M8	14mm	**25DN38**	100
	15.0mm	**29DJ05**	100
M12	20.5mm	**29DJ06**	50
M16	26.0mm	**25DN40**	25
External Tooth, Open Perimeter			
A2 Stainless Steel, Plain			
M3	6.0mm	**22UJ98**	50
M4	8.0mm	**22UK23**	50
M5	10.0mm	**22UK26**	50
M6	11.0mm	**22UK27**	50
M16	26.0mm	**6FE59**	10

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
External Tooth, Type A			
18-8 Stainless Steel, Plain			
#4	0.245"	**23NJ69**	50
#6	0.305"	**23NJ70**	50
#8	0.365"	**23NJ71**	50
#10	0.395"	**23NJ72**	50
¼"	0.494"	**19NP58**	50
5/16"	0.588"	**19NP59**	50
⅜"	0.670"	**23NJ75**	50
½"	0.880"	**23NJ76**	10
316 Stainless Steel, Plain			
#3	0.230"	**1EAL1**	50
#5	0.270"	**19NP66**	50
#8	0.365"	**19NP68**	50
#10	0.395"	**19NP69**	50
410 Stainless Steel, Plain			
#4	0.245"	**23NK01**	50
Steel, Zinc			
#4	0.260"	**2DB46**	100
#6	0.320"	**2DB48**	100
#8	0.381"	**2DB50**	100
#10	0.410"	**2DB52**	100
#12	0.475"	**2DB54**	100
¼"	0.510"	**2DB56**	100
5/16"	0.610"	**2DB58**	100
⅜"	0.670"	**22UJ28**	50
7/16"	0.740"	**22UJ29**	25
½"	0.880"	**22UJ30**	25
9/16"	0.960"	**22UJ31**	25
⅝"	1.045"	**22UJ32**	10
¾"	1.220"	**22UJ33**	10
⅞"	1.380"	**25DM98**	5
1"	1.590"	**25DM99**	5
External Toothed, Closed Perimeter			
A2 Stainless Steel, Plain			
M3	6.0mm	**23NJ91**	50
M4	8.0mm	**23NJ94**	50
M5	10.0mm	**23NJ95**	50

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
M6	11.0mm	**23NJ96**	50
M8	15.0mm	**23NJ97**	50
M20	33.0mm	**23NJ98**	5
M24	38.0mm	**23NJ99**	5
External Toothed, Open Perimeter			
M8	15.0mm	**23NJ39**	50
M10	18.0mm	**23NJ40**	50
M12	20.5mm	**23NJ41**	25
M14	24.0mm	**23NJ42**	25
Internal/External Tooth, Type A			
Steel, Zinc			
#4	0.475"	**2DB72**	100
#6	0.510"	**2DB74**	100
#8	0.610"	**2DB76**	100
#10	0.610"	**2DB78**	100
¼"	0.760"	**2DB80**	100
5/16"	0.900"	**2DB82**	100
⅜"	1.130"	**22UJ43**	50
½"	1.380"	**22UJ44**	25
Internal Tooth			
#4	0.270"	**6DZC6**	100
#6	0.295"	**6DZC7**	100
#8	0.340"	**6DZC8**	100
¼"	0.478"	**6DZD0**	100
#10	17.57mm	**6DZC9**	100
Internal Tooth, Closed Perimeter			
M8.2	—	**25DN42**	100
M12	20.5mm	**25DN44**	50
Internal Tooth, Heavy Duty Type A			
Steel, Plain			
⅜"	1.700"	**22UH79**	50
Steel, Zinc			
¼"	0.500"	**22UJ15**	100
5/16"	0.590"	**22UJ16**	100
½"	0.880"	**22UJ18**	25
⅝"	1.100"	**22UJ19**	10
¾"	1.240"	**22UJ20**	10
Internal Tooth, Open Perimeter			
A2 Stainless Steel, Plain			
M2	4.5mm	**23NJ44**	50
M3	6.0mm	**23NJ62**	50
M4	8.0mm	**23NJ63**	50
M5	10.0mm	**23NJ67**	50
M6	11.0mm	**23NJ73**	50
M8	15.0mm	**23NJ74**	50
M10	18.0mm	**23NJ88**	50
M12	20.5mm	**22UK24**	25
M14	24.0mm	**23NJ89**	25
M16	26.0mm	**22UK25**	10
Steel, Furnace Black			
M3	6.0mm	**6FY25**	100
M4	8.0mm	**6FY28**	100

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
M5	10.0mm	**6FY31**	100
M6	11.0mm	**6FY33**	100
M8	15.0mm	**6FY35**	100
M10	18.0mm	**6FY37**	100
Steel, Plain			
M12	20.5mm	**22UK18**	50
Internal Tooth, Type A			
18-8 Stainless Steel, Plain			
#4	0.245"	**23NJ58**	50
#6	0.275"	**23NJ59**	50
#8	0.325"	**23NJ60**	50
#10	0.365"	**23NJ61**	50
¼"	0.460"	**19NP60**	50
5/16"	0.594"	**19NP61**	50
⅜"	0.670"	**23NJ64**	50
½"	0.867"	**23NJ65**	10
9/16"	0.957"	**23NJ66**	10
⅝"	1.045"	**19NP62**	10
¾"	1.220"	**23NJ68**	5
316 Stainless Steel, Plain			
#4	0.265"	**1EAL7**	50
#6	0.288"	**1EAL8**	50
#8	0.336"	**1EAL9**	50
#10	0.365"	**19NP70**	50
¼"	0.460"	**23NJ92**	50
5/16"	0.594"	**23NJ93**	50
⅜"	0.670"	**22UJ23**	50
Steel, Plain			
¼"	0.500"	**19NP71**	100
5/16"	0.590"	**19NP72**	100
½"	0.880"	**19NP73**	25
⅝"	1.100"	**19NP74**	10
¾"	1.240"	**19NP75**	10
Steel, Zinc			
#2	0.200"	**2DB88**	100
#4	0.270"	**2DB90**	100
#6	0.295"	**2DB93**	100
#8	0.340"	**2DB96**	100
#10	0.381"	**2DB99**	100
#12	0.410"	**2DE12**	100
¼"	0.478"	**2DE14**	100
5/16"	0.610"	**2DE16**	100
⅜"	0.670"	**22UJ13**	50
7/16"	0.740"	**22UJ14**	25
½"	0.867"	**19NU03**	25
9/16"	0.957"	**25DM95**	25
⅝"	1.045"	**19NU04**	10
¾"	1.220"	**19NU05**	10
⅞"	1.364"	**25DM96**	5
1"	1.590"	**25DM97**	5

Split Lock Washers



Metric

- Meet DIN 127B standards

Standard

- Meet ASME B18 standards

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel, Plain			
#2	0.172"	**22UJ21**	50
#3	0.195"	**22UJ22**	50
#4	0.209"	**23NJ45**	50
#5	0.236"	**22UJ69**	50
#6	0.250"	**23NJ46**	50
#8	0.293"	**23NJ47**	50
#10	0.334"	**23NJ48**	50
#12	0.377"	**23NJ49**	50
¼"	0.487"	**23NJ50**	50
5/16"	0.583"	**23NJ51**	50
⅜"	0.680"	**23NJ52**	50
7/16"	0.770"	**23NJ53**	25
½"	0.869"	**23NJ54**	10
9/16"	0.965"	**22UJ70**	10
⅝"	1.073"	**23NJ55**	10
¾"	1.265"	**23NJ56**	5
⅞"	1.459"	**23NJ57**	5
1"	1.656"	**22UJ71**	5
1⅛"	1.847"	**19NP80**	5
1¼"	2.036"	**1PA18**	5
1½"	2.419"	**19NP82**	5
316 Stainless Steel, Plain			
#2	0.172"	**29DU17**	50
#3	0.195"	**29DU18**	50
#4	0.209"	**23NJ77**	50
#6	0.250"	**23NJ78**	50
#8	0.293"	**23NJ79**	50
#10	0.334"	**23NJ80**	50
#12	0.377"	**29DU19**	50
¼"	0.487"	**23NJ81**	50
5/16"	0.583"	**23NJ82**	50
⅜"	0.680"	**23NJ83**	50
7/16"	0.770"	**23NJ84**	25
½"	0.869"	**23NJ85**	10
⅝"	1.073"	**23NJ86**	10
¾"	1.265"	**23NJ87**	5
⅞"	1.459"	**22UJ78**	5
1"	1.656"	**1NY79**	5

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
1⅛"	1.847"	**1NY80**	5
1¼"	2.036"	**1NY81**	5
1½"	2.419"	**22UJ82**	5
A2 Stainless Steel, Plain			
M2	4.4mm	**22UJ45**	50
M2.5	5.1mm	**22UJ46**	50
M2.6	5.2mm	**22UJ56**	50
M3	6.2mm	**22UJ57**	50
M3.5	6.7mm	**22UJ58**	50
M4	7.6mm	**22UJ60**	50
M5	9.2mm	**22UJ61**	50
M6	11.8mm	**22UJ72**	50
M8	14.8mm	**22UJ73**	50
M10	18.1mm	**22UJ74**	50
M12	21.1mm	**22UK20**	25
M14	24.1mm	**22UJ79**	25
M16	27.4mm	**22UK21**	10
M18	29.4mm	**22UJ80**	10
M20	33.6mm	**22UK22**	5
M22	35.9mm	**25DN45**	5
M24	40.0mm	**22UJ81**	5
A4 Stainless Steel, Plain			
M2	4.4mm	**22UK28**	50
M2.5	5.1mm	**22UK29**	50
M3	6.2mm	**22UK30**	50
M4	7.6mm	**22UK31**	50
M5	9.2mm	**22UK32**	50
M6	11.8mm	**23NK10**	50
M8	14.8mm	**23NK11**	50
M10	18.1mm	**23NK12**	50
M12	21.1mm	**23NK13**	25
M14	24.1mm	**6FA87**	25
M16	27.4mm	**22UK33**	10
M18	29.4mm	**22UK34**	10
M20	33.6mm	**22UK35**	5
M24	40.0mm	**6FA95**	5

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Aluminum, Plain			
¼"	0.487"	**1NU97**	100
5/16"	0.583"	**1NU98**	100
⅜"	0.680"	**1NU99**	50
½"	0.869"	**1NY10**	25
⅝"	1.073"	**1NY11**	10
SAE 1050-1065 Spring Steel, Plain			
5/16"	0.583"	**6DYV2**	100
1"	1.656"	**6DYV3**	50
SAE 1050-1065 Spring Steel, Zinc-Plated Steel			
#6	0.250"	**6DYU5**	100
#8	0.293"	**6DYU6**	100
#10	0.334"	**6DYU7**	100
#12	0.377"	**6DYU8**	100
¼"	0.487"	**6DYU9**	100
5/16"	0.583"	**6DYV0**	100
⅜"	0.680"	**6DYV1**	100
Silicon Bronze, Plain			
#4	0.209"	**1NU87**	100
#6	0.250"	**1NU88**	100
#8	0.293"	**29DN19**	100
#10	0.334"	**29DN20**	100
¼"	0.487"	**25DN04**	100
5/16"	0.583"	**25DN05**	100
	0.583"	**1NU92**	100
⅜"	0.680"	**25DN06**	50
½"	0.869"	**1NU94**	50
⅝"	1.073"	**1NU95**	25
¾"	1.265"	**1NU96**	10
Spring Steel, Furnace Black			
M2	4.4mm	**6FB39**	100
M2.5	5.1mm	**6FB41**	100
Steel, Furnace Black			
M3	6.2mm	**6FB45**	100
M3.5	6.7mm	**6FB47**	100
M4	7.6mm	**6FB49**	100
M5	9.2mm	**6FB51**	100
M6	11.8mm	**6FB53**	100
M8	14.8mm	**6FB55**	100
M10	18.1mm	**6FB57**	100
Steel, Galvanized			
¼"	0.487"	**1JY98**	100
5/16"	0.583"	**1BUK7**	100
⅜"	0.680"	**22UJ62**	50
½"	0.869"	**22UJ63**	25
⅝"	1.073"	**22UJ64**	10
¾"	1.265"	**22UJ65**	10
⅞"	1.459"	**22UJ66**	5
1"	1.656"	**22UJ67**	5
1⅛"	1.847"	**22UJ68**	5

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
1¼"	2.036"	**23NJ43**	5
1⅜"	2.219"	**29DM95**	5
1½"	2.419"	**19NP26**	5
2"	2.936"	**29DM99**	5
2½"	3.471"	**29DN01**	5
Steel, Plain			
#2	0.172"	**19NP06**	100
#3	0.195"	**19NP07**	100
#4	0.209"	**19NP08**	100
#5	0.236"	**19NP09**	100
#6	0.250"	**19NP10**	100
#8	0.293"	**19NP11**	100
#10	0.334"	**19NP12**	100
#12	0.377"	**19NP13**	100
¼"	0.487"	**19NP14**	100
5/16"	0.583"	**1BUH5**	100
⅜"	0.680"	**22UH32**	50
7/16"	0.770"	**22UH33**	25
½"	0.869"	**22UH34**	25
9/16"	0.965"	**22UH35**	25
⅝"	1.073"	**22UH36**	10
¾"	1.265"	**22UH37**	10
⅞"	1.459"	**22UH38**	5
1"	1.656"	**22UH39**	5
1⅛"	1.847"	**22UH40**	5
1¼"	2.036"	**23NJ33**	5
1⅜"	2.219"	**22UH41**	5
1½"	2.419"	**22UH42**	5
2"	2.936"	**19NP18**	5
3"	4.074"	**22UH43**	5
M7	12.8mm	**25DN10**	100
M12	21.1mm	**22UK04**	50
M14	24.1mm	**22UK05**	50
M16	27.4mm	**22UK06**	25
M18	29.4mm	**22UK07**	25
M20	33.6mm	**22UK08**	10
M22	35.9mm	**25DN11**	10
M24	40.0mm	**22UK09**	10
M27	43.0mm	**25DN12**	5
M30	48.2mm	**25DN13**	5
M36	58.2mm	**25DN15**	2
M42	68.2mm	**25DN16**	2
Steel, Yellow Zinc			
¼"	0.487"	**2DB26**	100
5/16"	0.583"	**2DB28**	100
⅜"	0.680"	**22UJ47**	50
7/16"	0.770"	**22UJ48**	25
½"	0.869"	**22UJ49**	25
9/16"	0.965"	**22UJ50**	25
⅝"	1.073"	**22UJ51**	10
¾"	1.265"	**22UJ52**	10

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
⅞"	1.459"	**22UJ53**	5
1"	1.656"	**22UJ54**	5
1⅛"	1.847"	**22UJ55**	5
1¼"	2.036"	**19NT85**	5
1½"	2.419"	**19NT87**	5
1¾"	2.679"	**29DN04**	5
2"	2.936"	**22UJ59**	5
Steel, Zinc			
#2	0.172"	**19NP20**	100
#4	0.209"	**19NP22**	100
#5	0.236"	**19NP23**	100
#6	0.250"	**2DA81**	100
#8	0.293"	**2DA83**	100
#10	0.334"	**2DA85**	100
#12	0.377"	**2DA87**	100
¼"	0.487"	**2DA89**	100
5/16"	0.583"	**2DA91**	100
⅜"	0.680"	**22UH80**	50
7/16"	0.770"	**22UH81**	25
½"	0.869"	**22UH82**	25
9/16"	0.965"	**22UH83**	25
⅝"	1.073"	**22UH84**	10
¾"	1.265"	**22UH85**	10
⅞"	1.459"	**22UH86**	5
1"	1.656"	**22UH87**	5
1⅛"	1.847"	**22UH88**	5
1¼"	2.036"	**23NJ36**	5
1⅜"	2.219"	**22UH89**	5
1½"	2.419"	**22UH90**	5
1¾"	2.679"	**19NP24**	5
2"	2.936"	**19NP25**	5
M2	4.4mm	**6FB71**	100
M2.5	5.1mm	**6FB73**	100
M2.6	5.2mm	**6FB75**	100
M3	6.2mm	**6FB77**	100
M3.5	6.7mm	**6FB79**	100
M4	7.6mm	**6FB81**	100
M5	9.2mm	**6FB83**	100
M6	11.8mm	**6FB85**	100
M7	12.8mm	**25DN18**	100
M8	14.8mm	**6FB87**	100
M10	18.1mm	**6FB89**	100
M12	21.1mm	**22UK10**	50
M14	24.1mm	**22UK11**	50
M16	27.4mm	**22UK12**	25
M18	29.4mm	**22UK13**	25
M20	33.6mm	**22UK14**	10
M22	35.9mm	**25DN19**	10
M24	40.0mm	**22UK15**	10
M30	48.2mm	**25DN20**	5
M36	58.2mm	**25DN21**	2



Split Lock Washers

Light-Duty—Thin helical spring lock washers have a slight reduction in outside dimension.

Heavy-Duty—Load-bearing washers increase elastic properties of the joint to compensate for material expansion and contraction maintain tension under dynamic loads.

Extra-Duty—Washers have increased outside dia., thickness, and bearing area to absorb exceptionally high torques and retain tension under heavy loads.

Fits Bolt Sizes	Outside Dia.	Plain Finish Item No.	Plain Finish Pkg. Qty.	Zinc-Plated Item No.	Zinc-Plated Pkg. Qty.
Light Duty					
#4	0.199"	**1DZU6**	100	**1DZX3**	100
#5	0.222"	**1DZU7**	100	**1DZX4**	100
#6	0.236"	**1DZU8**	100	**1DZX5**	100
#8	0.277"	**1DZU9**	100	**1DZX6**	100
#10	0.320"	**1DZV1**	100	**1DZX7**	100
#12	0.361"	**1DZV2**	100	**1DZX8**	100
¼"	0.483"	**1DZV3**	100	**1DZX9**	100
5⁄16"	0.567"	**1DZV4**	100	**1DZY1**	100
⅜"	0.670"	**1DZV5**	100	**1DZY2**	100
7⁄16"	0.772"	**1DZV6**	50	**1DZY3**	50
½"	0.867"	**1DZV7**	50	**1DZY4**	50
9⁄16"	0.961"	**1DZV8**	50	—	—
⅝"	1.069"	**1DZV9**	25	**1DZY6**	25
¾"	1.262"	**1DZW1**	25	**1DZY7**	25
⅞"	1.455"	**1DZW2**	25	**1DZY8**	25
1"	1.640"	**1DZW3**	10	**1DZY9**	10
1⅛"	1.819"	**1DZW4**	10	**1DZZ1**	10
1¼"	1.990"	**1DZW5**	10	**1DZZ2**	10
1⅜"	2.158"	**1DZW6**	10	**1DZZ3**	10
1½"	2.325"	—	—	**1DZZ4**	10
Heavy Duty					
#2	0.182"	—	—	**1EAE6**	100
#4	0.223"	**19NP39**	100	**19NP50**	100
#5	0.252"	—	—	**19NP51**	100
#6	0.266"	**19NP41**	100	**19NP52**	100
#8	0.307"	**19NP42**	100	**19NP53**	100
#10	0.350"	**19NP43**	100	**19NP54**	100
#12	0.391"	**19NP44**	100	**19NP55**	100
¼"	0.489"	**19NP45**	100	**19NP56**	100
5⁄16"	0.593"	**19NP46**	100	**19NP57**	100
⅜"	0.688"	—	—	**1EAF7**	100
7⁄16"	0.784"	—	—	**1EAF8**	100
½"	0.879"	—	—	**1EAF9**	50

Fits Bolt Sizes	Outside Dia.	Plain Finish Item No.	Plain Finish Pkg. Qty.	Zinc-Plated Item No.	Zinc-Plated Pkg. Qty.
1⅛"	1.903"	**23NJ34**	5	**23NJ37**	5
Extra Duty					
#4	0.253"	**19NP27**	100	**19NP32**	100
¼"	0.533"	**19NP30**	100	**19NP36**	100
5⁄16"	0.619"	**19NP31**	100	**19NP37**	100
⅜"	0.738"	**23NJ35**	50	—	—
7⁄16"	0.836"	**22UH60**	25	**22UJ03**	25
½"	0.935"	**22UH61**	25	—	—
9⁄16"	1.035"	**22UH62**	25	**22UJ05**	25
⅝"	1.151"	**22UH63**	10	**22UJ06**	10
¾"	1.355"	**22UH64**	10	**22UJ07**	10
⅞"	1.571"	**22UH65**	5	**22UJ08**	5
1"	1.794"	**22UH66**	5	**22UJ09**	5
1⅛"	2.013"	**22UH67**	5	**22UJ10**	5
1¼"	2.222"	**22UH68**	5	**22UJ11**	5
1½"	2.627"	**22UH69**	5	**22UJ12**	5
Heavy					
⅜"	0.688"	**22UH44**	50	**22UH91**	50
7⁄16"	0.784"	**22UH45**	25	**22UH92**	25
½"	0.879"	**22UH46**	25	**22UH93**	25
9⁄16"	0.975"	**22UH47**	25	**22UH94**	25
⅝"	1.087"	**22UH48**	10	**22UH95**	10
¾"	1.285"	**22UH49**	10	**22UH96**	10
⅞"	1.489"	**22UH50**	5	**22UH97**	5
1"	1.700"	**22UH51**	5	**22UH98**	5
1¼"	2.104"	**22UH52**	5	**22UH99**	5
1⅜"	2.301"	**22UH53**	5	**22UJ01**	5
1½"	2.491"	**22UH54**	5	**22UJ02**	5
2"	3.144"	**22UH57**	5	—	—
2¼"	3.398"	**22UH58**	5	—	—
2½"	3.648"	**22UH59**	5	—	—
Standard Duty					
⅜"	0.738"	—	—	**23NJ38**	50



ARMOR COAT™ FASTENERS

Armor Coat® Grade 8 Split Lock Washers

250% stronger than stainless steel.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
¼"	0.260"	0.489"	0.062"	**5DKD3**	100
5⁄16"	0.322"	0.593"	0.078"	**5DKD4**	50
⅜"	0.385"	0.688"	0.094"	**5DKD5**	50
7⁄16"	0.450"	0.784"	0.109"	**5DKD6**	25
½"	0.512"	0.879"	0.125"	**5DKD7**	25
⅝"	0.641"	1.087"	0.156"	**5DKD8**	25
¾"	0.766"	1.285"	0.188"	**5DKD9**	20



High Collar Split Lock Washers

Split Lock Washers—Meet ASME B18.21.1 standards.

Metric Split Lock Washers—Meet DIN 7980 standards.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel, Plain			
¼"	0.363"	**22UJ75**	50
5⁄16"	0.457"	**22UJ76**	50
⅜"	0.550"	**22UJ77**	50
A2 Stainless Steel, Plain			
M3	5.6mm	**22UJ37**	50
M4	7.0mm	**22UJ38**	50
M5	8.8mm	**22UJ39**	50
M6	9.9mm	**22UJ40**	50
M8	12.7mm	**22UJ41**	50
M10	16.0mm	**22UJ42**	50
M12	18.0mm	**22UK19**	25
A4 Stainless Steel, Plain			
M5	8.8mm	**25DN47**	50
M6	9.9mm	**25DN48**	50
M8	12.7mm	**25DN49**	50
M10	16mm	**25DN50**	50
Steel, Furnace Black			
M3	5.6mm	**6FE27**	100
M4	7.0mm	**6FE29**	100
M5	8.8mm	**6FE31**	100
M6	9.9mm	**6FE33**	100
M8	12.7mm	**6FE35**	100
M10	16.0mm	**6FE37**	100
Steel, Plain			
#4	0.173"	**19NT88**	100
#6	0.216"	**19NT90**	100
#8	0.267"	**19NT91**	100

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
#10	0.294"	**19NT92**	100
¼"	0.363"	**19NT93**	100
5⁄16"	0.457"	**19NT94**	100
⅜"	0.550"	**22UH70**	50
7⁄16"	0.644"	**22UH71**	25
½"	0.733"	**22UH72**	25
⅝"	0.917"	**22UH73**	10
¾"	1.105"	**22UH74**	10
⅞"	1.291"	**22UH75**	5
1"	1.478"	**22UH76**	5
1¼"	1.790"	**22UH77**	5
1½"	2.159"	**22UH78**	5
M12	18.0mm	**22UK16**	50
M14	21.1mm	**25DN22**	50
M16	24.4mm	**22UK17**	25
M20	30.6mm	**25DN23**	10
M24	35.9mm	**25DN24**	10
M30	44.1mm	**25DN25**	5
Steel, Zinc			
M4	7.0mm	**25DN26**	100
M5	8.8mm	**25DN27**	100
M6	9.9mm	**25DN28**	100
M8	12.7mm	**25DN29**	100
M10	16.0mm	**25DN30**	100
M12	18.0mm	**25DN31**	50
M16	24.4mm	**25DN32**	25
M20	30.6mm	**25DN33**	10



METRIC BLUE

Metric Blue® High Collar Split Lock Washers

Blue coating provides easy metric identification. Meet DIN 7980 standard.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M3	3.50mm	5.50mm	1.00mm	**5YMW2**	100
M4	4.50mm	6.50mm	1.20mm	**5YMW3**	100
M5	5.50mm	8.50mm	1.60mm	**5YMW4**	100
M6	6.5mm	11.3mm	1.7mm	**5YMX2**	100
M6	6.50mm	9.50mm	1.60mm	**5YMW5**	100
M8	8.5mm	14.5mm	2.0mm	**5YMX3**	100
M8	9.00mm	12.50mm	2.00mm	**5YMW6**	100
M10	10.5mm	17.5mm	2.3mm	**5YMX4**	100
M10	10.50mm	15.50mm	2.50mm	**5YMW7**	100
M12	13.0mm	20.0mm	2.5mm	**5YMX5**	100
M12	12.50mm	17.50mm	2.50mm	**5YMW8**	100
M16	16.5mm	26.5mm	3.6mm	**5YMX6**	50
M16	16.50mm	23.00mm	3.50mm	**5YMW9**	100
M20	21.0mm	32.5mm	4.2mm	**5YMX7**	50
M20	21.00mm	30.00mm	4.60mm	**5YMX0**	50
M24	25.00mm	35.00mm	5.00mm	**5YMX1**	25
M24	25.0mm	40.0mm	4.9mm	**5YMX8**	25

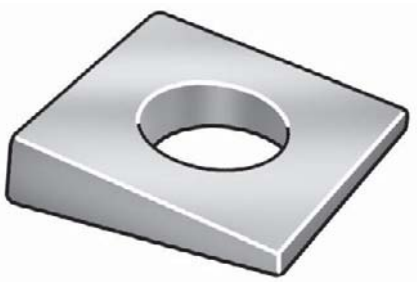
GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**

Structural Washers



Square Beveled

Flat—Primarily used for structural bolting. Commonly used with higher strength fasteners. Meet ASTM F436 standard.

Square Beveled—Washers are primarily used for structural leveling and shimming applications. Hardened steel is commonly used in A325 and A490 structural bolting applications.

- Metric meet DIN 435 standard
- Malleable iron meets ASTM A47 standard

Raised—Large bearing surface provides added strength. Meet ASTM A47 standard.

Fits Bolt Sizes	Thickness	Outside Dia.	Item No.	Pkg. Qty.
Structural Flat Washer				
Steel, Galvanized				
1"	0.136 to 0.177"	2"	**6ZA30**	10
1¼"	0.136 to 0.177"	2½"	**6ZA32**	10
1⅛"	0.136 to 0.177"	2¼"	**6ZA31**	10
⅝"	0.122 to 0.177"	1 5⁄16"	**6ZA27**	50
¾"	0.122 to 0.177"	1 15⁄32"	**6ZA28**	25
⅞"	0.136 to 0.177"	1¾"	**6ZA29**	25
½"	0.097 to 0.177"	1 1⁄16"	**6ZA26**	50
Square Beveled Washer				
Malleable Iron, Galvanized				
⅜"	0.120 to 0.340"	1¼"	**2DE60**	600
¾"	0.190 to 0.440"	1½"	**2DE73**	300

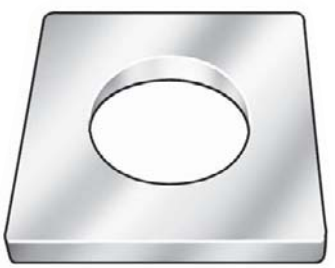
Fits Bolt Sizes	Thickness	Outside Dia.	Item No.	Pkg. Qty.
Malleable Iron, Plain				
⅜"	0.120 to 0.340"	1¼"	**2DE58**	600
¾"	0.190 to 0.440"	1½"	**2DE70**	300
Steel, Zinc				
M8	4.6mm	22mm	**6GA10**	10
M10	4.6mm	22mm	**6GA12**	10
M12	6.2mm	26mm	**6GA14**	10
M16	7.5mm	32mm	**6GA16**	10
M20	9.2mm	40mm	**6GA18**	5
M22	10mm	44mm	**6GA20**	5
Raised Structural Washer				
Malleable Iron, Plain				
⅝"	0.136 to 0.177"	2¾"	**2DE54**	25
½"	0.136 to 0.177"	2½"	**2DE52**	25
¾"	0.136 to 0.177"	3"	**2DE56**	25

Countersunk Washers



For Use With	Fits Bolt Size	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel					
82° Flat/Oval Head Screws	#8	¾"	⅛"	**1JYG5**	1
		1"	⅛"	**1JYG6**	1
	#10	1 3⁄16"	9⁄64"	**1JYG7**	1
	¼"	1½"	9⁄32"	**1JYH3**	1
		2"	9⁄32"	**1JYH5**	1
82° Flat/Oval Head Countersunk Screws	#6	29⁄64"	5⁄64"	**1NU82**	100
	#8	33⁄64"	3⁄32"	**1NU83**	100
	#10	19⁄32"	7⁄64"	**1NU84**	100
	#12	1 1⁄16"	9/34"	**1NU85**	100
	¼"	25⁄32"	5⁄32"	**1NU86**	100
A1 Stainless Steel					
90° Flat/Oval Head Countersunk Screws	M3	10mm	1.8mm	**6FY92**	10
	M4	14mm	2.3mm	**6FY94**	10
	M5	16mm	2.8mm	**6FY96**	5
	M6	18mm	3.3mm	**6FY98**	5
Brass					
82° Flat/Oval Head Countersunk Screws	#6	15⁄32"	5⁄64"	**2DE93**	100
	#10	19⁄32"	7⁄64"	**2DU21**	100
Low Carbon Steel, Nickel Finish					
82° Flat/Oval Head Countersunk Screws	#4	⅜"	3⁄32"	**2DE28**	100
	#6	15⁄32"	5⁄64"	**2DE30**	100
	#8	17⁄32"	7⁄64"	**2DE32**	100
	#10	19⁄32"	7⁄64"	**2DE34**	100
	#12	21⁄32"	⅛"	**2DE36**	100
	¼"	25⁄32"	5⁄32"	**2DE38**	100
	⅜"	1"	¼"	**2DE40**	100

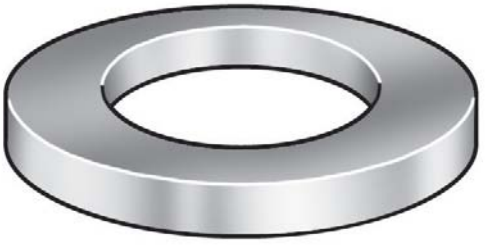
For Use With	Fits Bolt Size	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Nylon, Black					
82° Flat/Oval Head Countersunk Screws	#6	0.437"	0.100"	**4DCR8**	20
	#8	0.510"	0.115"	**4DCT3**	20
	#10	0.575"	0.152"	**4DCP9**	20
	#12	0.609"	0.160"	**4DCR4**	20
	¼"	0.683"	0.180"	**4EYA6**	20
Nylon, Off White					
82° Flat/Oval Head Countersunk Screws	#6	0.437"	0.100"	**4DCT1**	20
	#8	0.510"	0.115"	**4EYA4**	20
	#10	0.575"	0.152"	**4DCR2**	20
	#12	0.609"	0.160"	**4DCR6**	20
	¼"	0.683"	0.180"	**4EYA8**	20
Steel, Black Oxide Finish					
Flat Socket Head Cap Screw	#8	¾"	⅛"	**5TA58**	5
		1"	⅛"	**5TA59**	5
	#10	13⁄16"	9⁄64"	**5TA60**	5
		1⅛"	9⁄64"	**5TA61**	1
	¼"	1¼"	9⁄32"	**5TA63**	1
		1⅜"	9⁄32"	**5TA64**	1
		1½"	9⁄32"	**5TA65**	1
	M4	16mm	3mm	**5TA48**	5
		20mm	3mm	**5TA49**	5
	M6	32mm	4mm	**5TA53**	1



Thick Square Washers

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 SS, Plain Finish			
¼"	2"	**5RU22**	1
⅜"	2"	**5RU25**	1
½"	2"	**5RU28**	1
⅝"	2"	**5RU31**	1
¾"	2"	**5RU34**	1
⅞"	2"	**5RU37**	1
1"	2"	**5RU39**	1
Case Hardened Steel, Black Oxide Finish			
¼"	2"	**5RU21**	1
⅜"	2"	**5RU24**	1
½"	2"	**5RU27**	1
⅝"	2"	**5RU30**	1
¾"	2"	**5RU33**	1
⅞"	2"	**5RU36**	1
1"	2"	**5RU38**	1

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Steel, Galvanized Finish			
⅜"	2"	**5RU23**	1
½"	2"	**5RU26**	1
	3"	**26L103**	1
⅝"	2"	**5RU29**	1
	3"	**26L104**	1
	4"	**26L109**	1
¾"	2"	**5RU32**	1
	3"	**26L106**	1
	4"	**26L111**	1
⅞"	2"	**5RU35**	1
	3"	**26L108**	1
	4"	**26L112**	1
1"	3"	**26L110**	1
	4"	**26L113**	1

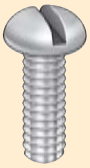


Metric Nonserrated Conical Washers

- Meet DIN6796

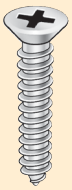
Fits Bolt Sizes	Outside Dia.	Thickness	A2 STAINLESS STEEL Item No.	A2 STAINLESS STEEL Pkg. Qty.	SPRING STEEL Item No.	SPRING STEEL Pkg. Qty.
M3	7mm	0.6mm	**6FY51**	10	**6FY72**	100
M4	9mm	1mm	**6FY53**	25	**6FY74**	100
M5	11mm	1.2mm	**6FY55**	25	**6FY76**	100
M6	14mm	1.5mm	**6FY57**	25	**6FY78**	50
M8	18mm	2mm	**6FY59**	10	**6FY80**	25
M10	23mm	2.5mm	**6FY61**	25	**6FY82**	10
M12	29mm	3mm	**6FY62**	10	**6FY84**	10
M16	39mm	4mm	**6FY64**	5	**6FY86**	1
M20	45mm	5mm	**6FY66**	1	**6FY88**	1

Screw Information



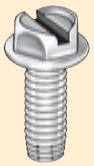
Machine

General purpose screws are typically used in noncritical applications. Machine screws are most commonly used to fasten metal to metal, and are designed to be inserted into a prethreaded hole or mated with a nut (in which case they may be called stove bolts). See page 2098.



Sheet Metal

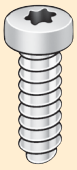
Designed for quick entry into sheet metal, plastics, wood, fiberglass, aluminum, plywood, and hard rubber. They tap their own internal mating thread when inserted into a predrilled or prepunched pilot hole; the resulting fit has close to zero clearance for a strong hold. See page 2105.



Thread-Cutting

Self-tapping screws cut away and remove the surrounding material instead of displacing it. Create a zero-clearance fit that resists vibration and prevents loosening. See page 2102.

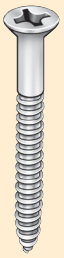
- Used in harder, less pliable materials
- Not recommended for applications requiring frequent assembly and disassembly



Thread-Cutting

Self-tapping screws displace the surrounding material instead of removing it. They typically have higher drive and strip torque values than thread-cutting screws. Not recommended for materials that crack under sustained loads. See page 2105.

- Used in softer materials that can deform
- For applications requiring frequent assembly and disassembly



Wood

Form their own internal mating thread in wood or other resilient materials. They create a tight joint, but the screws can be removed easily without damage. See page 2108.

Note: Predrilling is recommended, especially when used in hardwoods.



No. 2NRZ8

GA GRAINGER APPROVED ITW Bee Leitzke

Screw Assortments

No. of Pieces	No. of Sizes	Includes	Head Type	Material	Brand	Item No.
Machine Screw, Nut and Washer Assortment						
84	7	Screws (10) Each: 10"-24 x ¾", x1", x1-1/4", (8) Each: 10"-24 x 1½, (6) Each: 10"-24 x 2", Finish Washers (20) Each: #10, Hex Nuts (20) Each: 10"-24, Plastic Hanging Pak	Oval	Steel Plain	GA	**53WR24**
1180	29	Machine Screws (30) Each: 6"-32 x ½", (25) Each: 6"-32 x ¾", 8"-32 x ½", 10"-24 x ½", (20) Each: 8"-32 x ¾", 10"-24 x ¾", (15) Each: 6"-32 x 1", 8"-32 x 1", 10"-24 x ½", x3/4", x1", 10"-32 x 1", (12) Each: ¼"-20 x ¾", (10) Each: ¼"-20 x 1", (6) Each: ¼"-20 x 1½", (4) Each: 10"-24 x 1½", Hex Nuts (82) Each: 6"-32, (75) Each: 8"-32, 10"-24, (60) Each: 10"-32, (35) Each: ¼"-20, Flat Washers (88) Each: #6, (85) Each: #8, #10, (35) Each: ¼", Lock Washers (88) Each: #6, (85) Each: #8, #10, (35) Each: ¼", and Plastic Hanging Pak	Round	Steel Zinc	GA	**53WR36**
Machine Screw and Nut Assortment						
1711	24	Screws (100) Each: 6"-32 x ⅜", x1/2", x3/4", 8"-32 x ½", ¼"-20 x ½", x3/4", x1", x1-1/2", (48) Each: 6"-32 x 1", (39) Each: 10"-24 x ½", x3/4", x1", 10"-32 x ½", x3/4", x1", (36) Each: 8"-32 x ¾", x1", (33) Each: 8"-32 x 1½", (24) Each: 10"-24 x 1½", Nuts (100) Each: 6"-32, 8"-32, 10"-24, 10"-32, ¼"-20, and Metal Container, Fits Cabinet No. 4UJ35	Round	Steel Zinc	GA	**53WR06**
Machine Screw Assortment						
71	6	Screws (12) Each: 10"-24 x ¾", (10) Each: 10"-24 x 1", (5) Each: ¼"-20 x 1", x1-1/2", Hex Nuts (24) Each: 10"-24, (15) Each: ¼"-20, Plastic Hanging Pak	Round	Steel Zinc	GA	**53WR19**
88	7	(20) Each: 6"-32 x ½", (15) Each: 8"-32 x ½", x3/4", (12) Each: 10"-24 x ½", x3/4", (8) Each: ¼"-20 x ¾", (6) Each: ¼"-20 x 1", Plastic Case	Pan	Steel Plain	GA	**53WR31**
214	18	(25) Each: M3-0.50 x 6mm, (20) Each: M3-0.50 x 10mm, M4-0.70 x 6mm, x12mm, (18) Each: M4-0.70 x 20mm, (13) Each: M4-0.70 x 25mm, (12) Each: M5-0.80 x 10mm, (10) Each: M4-0.70 x 30mm, x40mm, M5-0.80 x 16mm, (9) Each: M5-0.80 x 20mm, (8) Each: M5-0.80 x 25mm, M6-1.00 x 12mm, (7) Each: M5-0.80 x 30mm, M6-1.00 x 16mm, x20mm, (5) Each: M6-1.00 x 25mm, x30mm, Plastic Hanging Pak	Pan	Steel Zinc	GA	**53WR25**
445	16	(40) Each: 6"-32 x ½", x3/4", x1", 8"-32 x ½", x3/4", (35) Each: 8"-32 x 1", 10"-24 x ½", (30) Each: 8"-32 x 1½", 10"-24 x	Flat	Steel Zinc	GA	**53WR15**
445	16	¾", x1", (20) Each: 10"-24 x 1½", (15) Each: ¼"-20 x ½", x3/4", x1", (10) Each: ¼"-20 x 1½", x2", and Plastic Case	Round	Steel Zinc	GA	**53WR23**
455	24	(40) Each: M4-0.70 x 6mm, x10mm, x12mm, x16mm, (15) Each: M4-0.70 x 20mm, x25mm, x30mm, x35mm, x40mm, x45mm, x50mm, (30) Each: M5-0.80 x 10mm, x16mm, x20mm, (10) Each: M5-0.80 x 25mm, x30mm, M6-1.00 x 12mm, x16mm, x20mm, x25mm, x30mm, x35mm, x40mm, x50mm, and Metal Container, Fits Cabinet No. 4UJ35	Pan	Steel Zinc	GA	**53WR02**
Multi-Machine, Tapping Screw, and Washer Assortment						
252	32	Oval Sheet Metal Screws (10) Each: #6 x ¾", x1", #8 x ¾", (8) Each: #8 x 1", x1-1/4", #10 x 1", (6) Each: #10 x 1½", (5) Each: #12 x 1½", Pan Sheet Metal Screws (10) Each: #6 x ¾", #8 x ¾", (8) Each: #8 x 1¼", #10 x 1", (5) Each: #10 x 1½", Oval Machine Screws (4) Each: 10"-24 x ¾", 10"-24 x 1", ¼"-20 x ¾", x1", x1-1/2", (3) Each: 10"-24 x 1½", Round Machine Screws (4) Each: 10"-24 x ¾", x1", (3) Each: ¼"-20 x ¾", ¼"-20 x 1", (2) Each: ¼"-20 x 1½", Hex Nuts (20) Each: 10"-24, (15) Each: ¼"-20, Flat Washers (15) Each: #10, (8) Each: ¼", Lock Washers (15) Each: #10, (12) Each: ¼", Finish Washers (12) Each: ¼", (10) Each: #10, and Plastic Hanging Pak	Oval, Pan and Round	Steel Plain	GA	**53WR34**
Self-Drilling Screw and Washer Assortment						
295	12	Self-Drilling Screws (40) Each: 10"-16 x ¾", (30) Each: 8"-18 x ½", x3/4", x1", 10"-16 x ½", (20) Each: 10"-16 x 1", 12"-14 x ¾", x1", ¼"-14 x ¾", x1", Self-Drilling Screws with Neoprene Washer (20) Each: 12"-14 x ¾", (15) Each: ¼"-14 x 1", and Plastic Case	Hex Washer	Steel Zinc	GA	**53WR12**
Self-Drilling Screw Assortment						
199	15	Self-Drilling Screws (24) Each: #6 x ½", #8 x ½", (20) Each: #8 x ¾", (15) Each: #6 x ¾", #10 x ¾", x5/8", x1/2", (12) Each: #10 x 1", (10) Each: #8 x 1", #12 x ¾", x1", (8) Each: #12 x 1¼", #14 x ¾", (6) Each: #14 x 1", (4) Each: #14 x 1½", Magnetic Drivers (1) Each: ⅜", 5⁄16", ¼", Plastic Hanging Pak	Hex Washer	Steel Zinc	GA	**53WR37**
340	13	Flat Head (10) Each: 10"-24 x 1¼", x1-7/16", 12"-24 x 2", Pan Head (40) Each: 8"-18 x ½", (30) Each: 6"-20 x ⅜", x1/2", 8"-18 x ¾", x1", x1-1/2", 10"-16 x ½", x5/8", x3/4", x1", Plastic Container	Flat and Pan	Steel Zinc	GA	**53WR22**
1825	20	(100) Each: #6 x ½", #8 x ½", x3/4", x1", x1-1/4", x1-1/2", #10 x ½", x3/4", x1", x1-1/4", x1-1/2", #12 x ¾", x1", x1-1/2", ¼" x ¾", x1", x1-1/2", (50) Each: #6 x ¾", x1", (25) #12 x 1¼", Metal Container, Fits Cabinet No. 4UJ35	Hex Washer	Steel Zinc	GA	**53WR14**
Sheet Metal Screws and Plastic Anchors Assortment						
365	12	Hex Head Screws (70) Each: #8x3/4", Pan Head Screws (50) Each: #4x3/8", #6x1/2", #10x3/4", (40) Each: #8x5/8", (20) Each: #10x1", #12x1", #14x1", Plastic Anchors (20) Each: ¾", (15) Each: ⅞", (10) Each: 1", and Plastic Hanging Pak	Pan	Carbon Steel Zinc	Itw Bee Leitzke	**2NRZ8**
Tapping Screw and Washer Assortment						
76	6	Screws (8) Each: #8 x 1¼", #10 x 1¼", (10) Each: #8 x ¾", x1", #10 x 1", Washers (15) Each: #8, #10, Plastic Hanging Pak	Oval	Steel Plain	GA	**53WR17**
Tapping Screw Assortment						
82	7	(15) Each: #6 x ¾", #8 x ½", (12) Each: #8 x 1", #10 x ¾", (10) Each: #8 x ¾", #10 x 1", (8) Each: #10 x 1½", Plastic Hanging Pak	Pan	Steel Plain	GA	**53WR21**
94	6	(25) Each: #8 x ½", (20) Each: #8 x ¾", (15) Each: #8 x 1", (12) Each: #8 x 1½", #10 x 1", (10) Each: #10 x 1¼", Plastic Hanging Pak	Pan	Steel Zinc	GA	**53WR10**
535	19	(55) Each: #8 x ½", (50) Each: #10 x ½", (45) Each: #8 x ¾", (40) Each: #6 x ½", (35) Each: #6 x 1", #8 x 1", #10 x ¾", (30) Each: #6 x ¾", #8 x 1¼", #10 x 1", (25) Each: #8 x 1½", #12 x ¾", (20) Each: #10 x 1¼", (15) Each: #10 x 1½", (15) Each: #14 x ¾", (14) Each: #12 x 1", x1-1/2", (12) Each: #14 x 1", (10) Each: #14 x 1½", Plastic Hanging Pak	Pan	Steel Zinc	GA	**53WR30**
667	24	Oval Head (35) Each: #6 x ½", (30) Each: #6 x ¾", #8 x ½", (25) Each: #8 x ¾", (20) Each: #6 x 1", #8 x 1", #10 x ¾", (15) Each: #8 x 1¼", x1-1/2", #10 x 1", (12) Each: #10 x 1¼", (10) Each: #10 x 1½", Pan Head (100) Each: #8 x 1¼", #10 x 1¼", (35) Each: #6 x ½", (30) Each: #6 x ¾", #8 x ½", (25) Each: #8 x ¾", (20) Each: #6 x 1", #8 x 1", #10 x ¾", (15) Each: #8 x 1½", #10 x 1", (10) Each: #10 x 1½", Metal Container, Fits Cabinet No. 4UJ35	Oval and Pan	Steel Plain	GA	**53WR18**
2000	20	(100) Each: #6 x ⅜", x1/2", x5/8", x3/4", x1", #8 x ½", x5/8", x3/4", x1", x1-1/4", x1-1/2", #10 x ½", x3/4", x1", x1-1/4", x1-1/2", x2", #12 x ¾", x1", x1-1/2", and Metal Container, Fits Cabinet No. 4UJ35	Pan	Steel Zinc	GA	**53WP98**
Wood Screw Assortment						
122	6	(30) Each: #6 x ¾", (25) Each: #6 x 1", (20) Each: #6 x 1½", #8 x 1, (15) Each: #8 x 1¼", (12) Each: #8 x 1½", Plastic Hanging Pak	Flat	Steel Zinc	GA	**53WR29**

Round Head Machine Screws



Phillips Drive



Combination Drive

High-profile domed head gives a decorative appearance. Meet ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Drive Type	Material*	Item No.	Pkg. Qty.
2-56 Thread Size				
¼ in	Phillips	Steel	**2EB15**	100
⅜ in	Phillips	Steel	**2EB16**	100
½ in	Phillips	Steel	**2EB18**	100
¾ in	Phillips	Steel	**2EB20**	100
4-40 Thread Size				
3/16 in	Phillips	Steel	**2EB24**	100
¼ in	Phillips	18-8 SS	**2BB11**	100
	Phillips	Steel	**2EB26**	100
	Combo	Steel	**1MY47**	100
5/16 in	Phillips	18-8 SS	**2BB13**	100
	Phillips	Steel	**2EB28**	100
⅜ in	Phillips	18-8 SS	**2BB15**	100
	Phillips	Steel	**2EB30**	100
	Combo	Steel	**1MY48**	100
½ in	Phillips	Steel	**2EB32**	100
	Combo	Steel	**1MY49**	100
⅝ in	Phillips	Steel	**2EB34**	100
¾ in	Phillips	Steel	**2EB35**	100
	Combo	Steel	**1MY51**	100
⅞ in	Phillips	Steel	**2EB37**	100
	Combo	Steel	**1MY52**	100
1 in	Phillips	Steel	**2EB39**	100
1 ¼ in	Phillips	Steel	**2EB41**	100
1 in	Combo	Steel	**1MY53**	100
1 ¼ in	Combo	Steel	**1MY54**	100
1 ½ in	Combo	Steel	**1MY55**	100
5-40 Thread Size				
¼ in	Combo	Steel	**1MY56**	100
⅜ in	Phillips	Steel	**2EB43**	100
	Combo	Steel	**1MY57**	100
½ in	Phillips	Steel	**2EB45**	100
	Combo	Steel	**1MY58**	100
¾ in	Combo	Steel	**1MY59**	100
1 in	Combo	Steel	**1MY60**	100
1 ¼ in	Combo	Steel	**1MY61**	100
1 ½ in	Combo	Steel	**1MY62**	100
6-32 Thread Size				
¼ in	Phillips	18-8 SS	**2BB17**	100
	Phillips	Steel	**2EB47**	100
	Combo	Steel	**1MY63**	100
5/16 in	Phillips	18-8 SS	**2BB19**	100
	Phillips	Steel	**2EB49**	100
⅜ in	Phillips	18-8 SS	**2BB21**	100
	Phillips	Steel	**2EB51**	100
	Combo	Steel	**1MY64**	100
½ in	Phillips	18-8 SS	**2BB23**	100
	Phillips	Steel	**2EB53**	100
	Combo	Steel	**1MY65**	100
⅝ in	Phillips	18-8 SS	**2BB25**	100
	Phillips	Steel	**2EB54**	100
	Combo	Steel	**1MY66**	100
¾ in	Phillips	18-8 SS	**2BB27**	100
	Phillips	Steel	**2EB56**	100
	Combo	Steel	**1MY67**	100
⅞ in	Combo	Steel	**1MY68**	100
1 in	Phillips	18-8 SS	**2BB29**	100
1 ½ in	Phillips	18-8 SS	**2WA25**	100
1 in	Phillips	Steel	**2EB58**	100
1 ¼ in	Phillips	Steel	**2EB60**	100
1 ½ in	Phillips	Steel	**2EB62**	100
1 ¾ in	Phillips	Steel	**2EB64**	100
1 in	Combo	Steel	**1MY69**	100
1 ¼ in	Combo	Steel	**1MY70**	100
1 ½ in	Combo	Steel	**1MY71**	100
1 ¾ in	Combo	Steel	**1MY72**	100
2 in	Combo	Steel	**1MY73**	100
2 ½ in	Combo	Steel	**1MY74**	100
3 in	Combo	Steel	**1MY75**	100
8-32 Thread Size				
¼ in	Phillips	18-8 SS	**2BB31**	100
	Phillips	Steel	**2EB66**	100
	Combo	Steel	**1MY77**	100
5/16 in	Phillips	18-8 SS	**2BB33**	100
	Phillips	Steel	**2EB68**	100
	Combo	Steel	**1MY78**	100
⅜ in	Phillips	18-8 SS	**2BB35**	100
	Phillips	Steel	**2EB70**	100
	Combo	Steel	**1MY79**	100

Length	Drive Type	Material*	Item No.	Pkg. Qty.
½ in	Phillips	18-8 SS	**2BB37**	100
	Phillips	Steel	**2EB72**	100
	Combo	Steel	**1MY80**	100
⅝ in	Phillips	18-8 SS	**2BB39**	100
	Phillips	Steel	**2EB73**	100
	Combo	Steel	**1MY81**	100
¾ in	Phillips	18-8 SS	**2BB41**	100
	Phillips	Steel	**2EB75**	100
	Combo	Steel	**1MY82**	100
⅞ in	Phillips	Steel	**2EB77**	100
	Combo	Steel	**1MY83**	100
1 in	Phillips	18-8 SS	**2BB43**	100
1 ¼ in	Phillips	18-8 SS	**2BB45**	100
1 ½ in	Phillips	18-8 SS	**2BB47**	100
1 ¾ in	Phillips	18-8 SS	**2WA26**	100
1 in	Phillips	Steel	**2EB79**	100
1 ¼ in	Phillips	Steel	**2EB81**	100
1 ½ in	Phillips	Steel	**2EB83**	100
1 in	Combo	Steel	**1MY84**	100
1 ¼ in	Combo	Steel	**1MY85**	100
1 ½ in	Combo	Steel	**1MY86**	100
1 ¾ in	Combo	Steel	**1MY87**	100
2 in	Phillips	18-8 SS	**2WA27**	100
	Phillips	Steel	**2EB85**	100
	Combo	Steel	**1MY88**	100
2 ¼ in	Combo	Steel	**1MY89**	100
2 ½ in	Combo	Steel	**1MY90**	100
3 in	Combo	Steel	**1MY91**	100
10-24 Thread Size				
¼ in	Phillips	Steel	**2EB87**	100
	Combo	Steel	**1MY94**	100
⅜ in	Phillips	18-8 SS	**2BB49**	100
	Phillips	Steel	**2EB89**	100
	Combo	Steel	**1MY95**	100
7/16 in	Phillips	18-8 SS	**2BB51**	100
½ in	Phillips	18-8 SS	**2BB53**	100
	Phillips	Steel	**2EB91**	100
	Combo	Steel	**1MY96**	100
⅝ in	Phillips	18-8 SS	**2BB55**	100
	Phillips	Steel	**2EB92**	100
	Combo	Steel	**1MY97**	100
¾ in	Phillips	18-8 SS	**2BB57**	100
	Phillips	Steel	**2EB94**	100
	Combo	Steel	**1MY98**	100
⅞ in	Combo	Steel	**1MY99**	100
1 in	Phillips	18-8 SS	**2BB59**	100
1 ¼ in	Phillips	18-8 SS	**2BB61**	100
1 ½ in	Phillips	18-8 SS	**2BB63**	100
1 ¾ in	Phillips	18-8 SS	**2WA28**	100
1 in	Phillips	Steel	**2EB96**	100
1 ¼ in	Phillips	Steel	**2EB98**	100
1 ½ in	Phillips	Steel	**2EE10**	100
1 ¾ in	Phillips	Steel	**2EE12**	100
1 in	Combo	Steel	**1NA10**	100
1 ¼ in	Combo	Steel	**1NA11**	100
1 ½ in	Combo	Steel	**1NA12**	100
1 ¾ in	Combo	Steel	**1NA13**	100
2 in	Phillips	18-8 SS	**31KJ29**	50
	Phillips	Steel	**2EE14**	100
	Combo	Steel	**1NA14**	100
2 ¼ in	Combo	Steel	**1NA15**	100
2 ½ in	Combo	Steel	**1NA16**	100
3 in	Combo	Steel	**1NA17**	100
3 ½ in	Combo	Steel	**1NA18**	100
10-32 Thread Size				
¼ in	Combo	Steel	**1NA22**	100
⅜ in	Phillips	18-8 SS	**2BB65**	100
	Phillips	Steel	**2EE16**	100
	Combo	Steel	**1NA23**	100
½ in	Phillips	18-8 SS	**2BB67**	100
	Phillips	Steel	**2EE18**	100
	Combo	Steel	**1NA24**	100
⅝ in	Phillips	18-8 SS	**2BB69**	100
	Phillips	Steel	**2EE20**	100
	Combo	Steel	**1NA25**	100
¾ in	Phillips	18-8 SS	**2BB71**	100
	Phillips	Steel	**2EE22**	100
	Combo	Steel	**1NA26**	100
⅞ in	Phillips	Steel	**2EE23**	100

Length	Drive Type	Material*	Item No.	Pkg. Qty.
1 in	Phillips	18-8 SS	**2BB73**	100
1 ¼ in	Phillips	18-8 SS	**2BB75**	100
1 in	Phillips	Steel	**2EE25**	100
1 ¼ in	Phillips	Steel	**2EE27**	100
1 ½ in	Phillips	Steel	**2EE29**	100
1 ¾ in	Phillips	Steel	**2EE31**	100
1 in	Combo	Steel	**1NA28**	100
1 ½ in	Combo	Steel	**1NA30**	100
2 in	Phillips	Steel	**2EE33**	100
3 in	Combo	Steel	**1NA35**	100
12-24 Thread Size				
⅜ in	Phillips	Steel	**2EE35**	100
	Combo	Steel	**1NA38**	100
½ in	Phillips	Steel	**2EE37**	100
	Combo	Steel	**1NA39**	100
⅝ in	Phillips	Steel	**2EE39**	100
	Combo	Steel	**1NA40**	100
¾ in	Phillips	Steel	**2EE40**	100
	Combo	Steel	**1NA41**	100
1 in	Phillips	Steel	**2EE43**	100
1 ½ in	Phillips	Steel	**2EE46**	100
1 in	Combo	Steel	**1NA42**	100
1 ¼ in	Combo	Steel	**1NA43**	100
1 ½ in	Combo	Steel	**1NA44**	100
2 in	Phillips	Steel	**2EE48**	100
	Combo	Steel	**1NA45**	100
2 ½ in	Combo	Steel	**1NA46**	100
3 in	Combo	Steel	**1NA47**	100
¼-20 Thread Size				
¼ in	Combo	Steel	**1NA48**	100
⅜ in	Phillips	Steel	**2EE50**	100
½ in	Phillips	18-8 SS	**31JV03**	50
	Phillips	Steel	**2EE52**	100
⅝ in	Phillips	18-8 SS	**31JV04**	50
	Phillips	Steel	**2EE54**	100
	Combo	Steel	**1NA51**	100
¾ in	Phillips	18-8 SS	**31JV05**	50
	Phillips	Steel	**2EE56**	100
	Combo	Steel	**1NA52**	100
⅞ in	Phillips	Steel	**2EE58**	100
1 ¼ in	Phillips	18-8 SS	**2BB84**	50
1 ½ in	Phillips	18-8 SS	**2BB86**	50
1 in	Phillips	18-8 SS	**3AWE8**	50
	Phillips	Steel	**2EE60**	100
1 ¼ in	Phillips	Steel	**2EE61**	100
1 ½ in	Phillips	Steel	**2EE65**	100
1 ¾ in	Phillips	Steel	**2EE68**	100
1 ¼ in	Combo	Steel	**1NA54**	100
1 ½ in	Combo	Steel	**1NA55**	100
1 ¾ in	Combo	Steel	**1NA56**	100
2 in	Phillips	18-8 SS	**31JV06**	50
	Phillips	Steel	**2EE71**	100
2 ½ in	Phillips	Steel	**2EE73**	100
2 ¾ in	Phillips	Steel	**2EE77**	100
2 in	Combo	Steel	**1NA57**	100
2 ¼ in	Combo	Steel	**1NA58**	100
2 ½ in	Combo	Steel	**1NA59**	100
2 ¾ in	Combo	Steel	**1NA60**	100
3 in	Combo	Steel	**1NA61**	100
5/16-18 Thread Size				
½ in	Combo	Steel	**1NA67**	100
¾ in	Combo	Steel	**1NA68**	100
1 in	Phillips	Steel	**2EE80**	100
1 ½ in	Phillips	Steel	**2EE83**	100
1 in	Combo	Steel	**1NA69**	100
1 ¼ in	Combo	Steel	**1NA70**	100
1 ½ in	Combo	Steel	**1NA71**	100
2 in	Combo	Steel	**1NA72**	100
2 ½ in	Combo	Steel	**1NA73**	100
3 in	Combo	Steel	**1NA74**	100
⅜-16 Thread Size				
¾ in	Combo	Steel	**1NA79**	100
1 in	Combo	Steel	**1NA80**	100
1 ½ in	Combo	Steel	**1NA81**	100
2 in	Combo	Steel	**1NA82**	100
3 in	Combo	Steel	**1NA83**	50

** Steel screws are zinc-plated.*

Military Specification Pan-Head Machine Screws



Phillips Drive

- 300 series stainless steel

Crossed recessed Phillips drive. Meet MIL-C-13924 class 4 standard.

Length	Item No.	Pkg. Qty.
2-56 Thread Size		
3/16"	**5GLZ5**	50
1/4"	**5GLZ6**	50
5/16"	**5GLZ7**	50
3/8"	**5GLZ8**	50
1/2"	**5GLZ9**	50
5/8"	**5GMA0**	50

Length	Item No.	Pkg. Qty.
4-40 Thread Size		
1/8"	**5GMA2**	50
1/4"	**5GMA4**	50
5/16"	**5GMA5**	50
3/8"	**5GMA6**	50
1/2"	**5GMA7**	50
5/8"	**5GMA8**	50
3/4"	**5GMA9**	50
1"	**5GMC0**	50

Length	Item No.	Pkg. Qty.
6-32 Thread Size		
3/16"	**5GMC1**	50
1/4"	**5GMC2**	50
5/16"	**5GMC3**	50
3/8"	**5GMC4**	50
1/2"	**5GMC5**	50
5/8"	**5GMC6**	50
3/4"	**5GMC7**	50
1"	**5GMC9**	50

Length	Item No.	Pkg. Qty.
8-32 Thread Size		
1/4"	**5GMD0**	50
3/8"	**5GMD2**	50
1/2"	**5GMD3**	50
5/8"	**5GMD4**	50
3/4"	**5GMD5**	50
1"	**5GMD7**	50

Length	Item No.	Pkg. Qty.
10-32 Thread Size		
3/8"	**5GMD8**	50
7/16"	**5GMD9**	50
1/2"	**5GME0**	50
5/8"	**5GME1**	50
3/4"	**5GME2**	50
7/8"	**5GME3**	50
1"	**5GME4**	50

Pan Head Machine Screws



- Phillips drive

Meet ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material*	Item No.	Pkg. Qty.
#0-80 Thread Size			
1/8"	18-8 SS	1ZA99	100
3/16"	18-8 SS	1ZB10	100
1/4"	18-8 SS	1ZB11	100
3/8"	18-8 SS	1ZB13	100
1/2"	18-8 SS	1ZB14	100
#1-72 Thread Size			
1/8"	18-8 SS	1ZB17	100
3/16"	18-8 SS	1ZB18	100
1/4"	18-8 SS	1ZB19	100
3/8"	18-8 SS	1ZB20	100
#2-56 Thread Size			
1/8"	18-8 SS	1ZB21	100
3/16"	18-8 SS	1ZB22	100
1/4"	18-8 SS	1ZB23	100
5/16"	18-8 SS	1ZB24	100
3/8"	18-8 SS	1ZB25	100
7/16"	18-8 SS	1ZB26	100
1/2"	18-8 SS	1ZB27	100
5/8"	18-8 SS	1ZB29	100
3/4"	18-8 SS	1ZB30	100
7/8"	18-8 SS	1ZB31	100
1"	18-8 SS	1ZB32	100
#4-40 Thread Size			
1/8"	18-8 SS	1ZB33	100
3/16"	Steel	1ME93	100
	18-8 SS	1ZB34	100
1/4"	Steel	1ME94	100
	18-8 SS	1ZB35	100
5/16"	18-8 SS	1ZB36	100
3/8"	Steel	1ME96	100
	18-8 SS	1ZB37	100
7/16"	18-8 SS	1ZB38	100
1/2"	Steel	1ME97	100
	18-8 SS	1ZB39	100
5/8"	18-8 SS	1ZB41	100
3/4"	18-8 SS	1ZB43	100
7/8"	18-8 SS	1ZB44	100
1"	Steel	1MU10	100
	18-8 SS	1ZB45	100
1 1/4"	18-8 SS	1ZB47	100
1 1/2"	18-8 SS	1ZB49	100
#6-32 Thread Size			
3/16"	18-8 SS	1ZB53	100
1/4"	Steel	1MU12	100
3/8"	Steel	1MU13	100
	18-8 SS	1ZB54	100
7/16"	18-8 SS	1ZB55	100
1/2"	Steel	1MU14	100
	18-8 SS	1ZB56	100
5/8"	Steel	1MU15	100
	18-8 SS	1ZB58	100
3/4"	Steel	1MU16	100
	18-8 SS	1ZB59	100
7/8"	18-8 SS	1ZB60	100
1"	Steel	1MU17	100
	18-8 SS	1ZB61	100
1 1/4"	Steel	1MU18	100
	18-8 SS	1ZB63	100
1 1/2"	Steel	1MU19	100
	18-8 SS	1ZB65	100
1 3/4"	18-8 SS	1ZB66	100
2"	Steel	1MU20	100
	18-8 SS	1ZB67	100
2 1/2"	18-8 SS	1ZB68	100

Length	Material*	Item No.	Pkg. Qty.
#8-32 Thread Size			
3/16"	18-8 SS	1ZB69	100
1/4"	Steel	1MU21	100
	18-8 SS	1ZB70	100
5/16"	18-8 SS	1ZB71	100
3/8"	Steel	1MU23	100
	18-8 SS	1ZB72	100
7/16"	18-8 SS	1ZB73	100
1/2"	Steel	1MU24	100
	18-8 SS	1ZB74	100
5/8"	Steel	1MU25	100
	18-8 SS	1ZB76	100
3/4"	Steel	1MU26	100
	18-8 SS	1ZB77	100
7/8"	18-8 SS	1ZB78	100
1"	Steel	1MU28	100
	18-8 SS	1ZB79	100
1 1/4"	Steel	1MU29	100
	18-8 SS	1ZB81	100
1 1/2"	Steel	1MU30	100
	18-8 SS	1ZB83	100
1 3/4"	Steel	1MU31	100
	18-8 SS	1ZB84	100
2"	Steel	1MU32	100
	18-8 SS	1ZB85	100
2 1/4"	18-8 SS	1ZB86	100
2 1/2"	18-8 SS	1ZB87	100
2 3/4"	18-8 SS	31KH69	100
3"	18-8 SS	1ZB89	50
#10-24 Thread Size			
1/4"	18-8 SS	1ZB90	100
3/8"	Steel	1MU33	100
	18-8 SS	1ZB91	100
1/2"	Steel	1MU34	100
	18-8 SS	1ZB93	100
5/8"	Steel	1MU35	100
	18-8 SS	1ZB94	100
3/4"	Steel	1MU36	100
	18-8 SS	1ZB95	100
1"	Steel	1MU37	100
	18-8 SS	1ZB97	100
1 1/4"	Steel	1MU38	100
	18-8 SS	1ZB98	100
1 1/2"	Steel	1MU39	100
	18-8 SS	1ZB99	100
1 3/4"	18-8 SS	1ZE10	100
2"	Steel	1MU40	100
	18-8 SS	31KJ28	50
3"	18-8 SS	1ZE14	50

Length	Material*	Item No.	Pkg. Qty.
#10-32 Thread Size			
1/4"	Steel	1MU42	100
	18-8 SS	1ZE15	100
5/16"	18-8 SS	1ZE16	100
3/8"	Steel	1MU43	100
	18-8 SS	1ZE17	100
1/2"	Steel	1MU44	100
	18-8 SS	1ZE21	100
5/8"	18-8 SS	1ZE23	100
3/4"	Steel	1MU46	100
	18-8 SS	1ZE24	100
7/8"	18-8 SS	1ZE25	100
1"	Steel	1MU47	100
	18-8 SS	1ZE26	100
1 1/4"	18-8 SS	1ZE28	100
1 1/2"	Steel	1MU49	100
	18-8 SS	1ZE30	100
1 3/4"	18-8 SS	1ZE31	100
2"	18-8 SS	1ZE32	100
2 1/2"	18-8 SS	1ZE34	50
3"	18-8 SS	1ZE35	50
#12-24 Thread Size			
1/2"	18-8 SS	1ZE37	100
3/4"	18-8 SS	1ZE39	100
1"	18-8 SS	1ZE40	100
1/4"-20 Thread Size			
3/8"	Steel	1MU55	100
	18-8 SS	31JU88	50
1/2"	Steel	1MU56	100
	18-8 SS	31JU89	50
5/8	18-8 SS	31JU90	50
3/4"	Steel	1MU57	100
	18-8 SS	31JU91	50
7/8"	18-8 SS	31JU92	50
1"	Steel	1MU58	100
	18-8 SS	31JU93	50
1 1/4"	Steel	1MU59	100
	18-8 SS	1ZE48	50
1 1/2"	Steel	1MU60	100
	18-8 SS	1ZE49	50
1 3/4"	18-8 SS	1ZE50	50
2"	Steel	1MU61	100
2 1/4"	18-8 SS	1ZE52	50
2 1/2"	18-8 SS	1ZE53	25
3"	18-8 SS	1ZE54	25
5/16"-18 Thread Size			
3/4"	18-8 SS	3AWF7	25
1"	18-8 SS	3AWF5	25
1 1/4"	18-8 SS	31JU95	25
1 1/2"	18-8 SS	31JU96	25
2"	18-8 SS	3AWF8	10
3/8"-16 Thread Size			
1"	18-8 SS	31JU97	25
1 1/2"	18-8 SS	31JU98	25
3"	18-8 SS	31JU99	10

**** Steel screws are zinc-plated.***

Stainless Steel Oval Head Machine Screws



- 18-8 Stainless Steel
- 82° head angle
- Phillips drive

Meet ANSI/ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Item No.	Pkg. Qty.
#6-32 Thread Size		
1/4"	2BB88	100
3/8"	2BB90	100
1/2"	2BB92	100
5/8"	2BB94	100
3/4"	2BB96	100
1"	2BB98	100
1 1/2"	2BE10	100
2"	2BE12	100
#8-32 Thread Size		
1/4"	2BE14	100
3/8"	2BE16	100
1/2"	2BE18	100
5/8"	2BE20	100
3/4"	2BE22	100
7/8"	2BE24	100
1"	2BE26	100
1 1/4"	2BE28	100
1 1/2"	2BE30	100
1 3/4"	2BE32	100
2"	2BE34	100
2 1/2"	2BE36	100

Length	Item No.	Pkg. Qty.
#10-24 Thread Size		
3/8"	2BE38	100
1/2"	2BE40	100
5/8"	2BE42	100
3/4"	2BE44	100
1"	2BE46	100
1 1/4"	2BE48	100
1 1/2"	2BE50	100
1 3/4"	2BE52	100
2"	31KJ38	50
2 1/2"	2BE55	50
3"	2BE57	50
#10-32 Thread Size		
3/8"	2BE59	100
1/2"	2BE61	100
5/8"	2BE63	100
3/4"	2BE65	100
1"	2BE67	100
1 1/4"	2BE69	100
1 1/2"	2BE71	100
2"	2BE73	100
3"	2BE75	50

Length	Item No.	Pkg. Qty.
1/4"-20 Thread Size		
1/2"	31JV44	50
5/8	31JV45	50
3/4"	31JV46	50
1"	2BE83	50
1 1/4"	2BE85	50
1 1/2"	2BE87	50
1 3/4"	2BE89	50
2"	2BE91	50
2 1/2"	2BE93	25
3"	2BE95	25
5/16"-18 Thread Size		
1"	3AWP6	25
1 1/4"	31JV47	25
1 1/2"	2BU13	25
2"	2BU15	10
2 1/2"	2BU18	10
3"	2BU22	10



Metric Pan Head Machine Screws

- Phillips drive

Meet DIN 7985 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
M1.6-0.35mm Thread Size			
3mm	Steel	6GE10	100
4mm	Steel	6GE11	100
5mm	Steel	6GE12	100
6mm	Steel	6GE13	100
M2-0.40mm Thread Size			
3mm	A2 SS	6GB25	50
	Steel	6GE16	100
4mm	A2 SS	54FR90	100
	Steel	6GE17	100
5mm	A2 SS	54FR91	100
	Steel	6GE18	100
6mm	A2 SS	54FR92	100
	Steel	6GE19	100
8mm	A2 SS	54FR93	100
	Steel	6GE20	100
10mm	A2 SS	54FR94	100
	Steel	6GE21	100
12mm	A2 SS	54FR95	100
	Steel	6GE22	100
14mm	A2 SS	38EA23	100
16mm	A2 SS	54FR96	100
	Steel	6GE23	100
20mm	Steel	6GE24	100
M2.5-0.45mm Thread Size			
4mm	A2 SS	6GB34	100
5mm	A2 SS	54FR97	100
	Steel	6GE27	100
6mm	A2 SS	54FR98	100
	Steel	6GE28	100
8mm	A2 SS	54FR99	100
	Steel	6GE29	100
10mm	A2 SS	54FT01	100
	Steel	6GE30	100
12mm	A2 SS	54FT02	100
	Steel	6GE31	100
14mm	A2 SS	38EA24	100
16mm	A2 SS	54FT03	100
	Steel	6GE32	100
20mm	A2 SS	54FT04	100
	Steel	6GE33	100
25mm	A2 SS	38EA25	100
	Steel	6GE34	100
30mm	Steel	6GE35	100
M3-0.50mm Thread Size			
3mm	Steel	6GE36	100
4mm	A2 SS	6GB44	100
	Steel	6GE37	100
5mm	A2 SS	54FT05	100
	Steel	6GE38	100
6mm	A2 SS	54FT06	100
	Steel	6GE39	100
8mm	A2 SS	54FT07	100
	Steel	6GE40	100
10mm	A2 SS	54FT08	100
	Steel	6GE41	100
12mm	A2 SS	54FT09	100
	Steel	6GE42	100
16mm	A2 SS	54FT10	100
	Steel	6GE44	100
18mm	Steel	6GE45	100
20mm	A2 SS	54FT11	100
	Steel	6GE46	100
22mm	Steel	6GE47	100
25mm	A2 SS	54FT12	100
	Steel	6GE48	100
30mm	A2 SS	54FT13	100
	Steel	6GE49	100
35mm	A2 SS	54FT14	100
	Steel	6GE50	100
40mm	A2 SS	54FT15	100
	Steel	6GE51	100
45mm	Steel	6GE52	100
50mm	Steel	6GE53	25
M3.5-0.60mm Thread Size			
5mm	Steel	6GE54	100
8mm	Steel	6GE56	100
10mm	Steel	6GE57	100
12mm	Steel	6GE58	100
16mm	Steel	6GE59	100
30mm	Steel	6GE62	25
M4-0.70mm Thread Size			
5mm	A2 SS	54FT16	100
	Steel	6GE63	100
6mm	A2 SS	54FT17	100
	Steel	6GE64	100
8mm	A2 SS	54FT18	100
	Steel	6GE65	100
10mm	A2 SS	54FT19	100
	Steel	6GE66	100
12mm	A2 SS	54FT20	100
	Steel	6GE67	100
14mm	Steel	6GE68	100

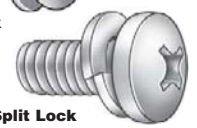
Length	Material	Item No.	Pkg. Qty.
	A2 SS	54FT21	100
16mm	A4 SS	6GB15	50
	Steel	6GE69	100
18mm	Steel	6GE70	100
	A2 SS	54FT22	100
20mm	A4 SS	6GB16	50
	Steel	6GE71	100
25mm	A2 SS	54FT23	100
	Steel	6GE72	100
30mm	A2 SS	54FT24	100
	Steel	6GE73	100
35mm	A2 SS	54FT25	100
	Steel	6GE74	100
40mm	A2 SS	54FT26	100
	Steel	6GE75	100
45mm	Steel	6GE76	100
50mm	Steel	6GE77	100
55mm	Steel	6GE78	25
60mm	Steel	6GE79	25
70mm	Steel	6GE80	10
80mm	Steel	6GE81	10
M5-0.80mm Thread Size			
6mm	A2 SS	38EA28	100
	Steel	6GE82	100
8mm	A2 SS	54FT27	100
	Steel	6GE83	100
10mm	A2 SS	54FT28	100
	A4 SS	6GB17	50
	Steel	6GE84	100
12mm	A2 SS	54FT29	50
	Steel	6GE85	100
14mm	Steel	6GE86	100
16mm	A2 SS	54FT30	100
	Steel	6GE87	100
18mm	Steel	6GE88	100
20mm	A2 SS	54FT31	50
	A4 SS	6GB20	25
	Steel	6GE89	100
25mm	A2 SS	54FT32	100
	Steel	6GE90	100
30mm	A2 SS	54FT33	25
	Steel	6GE91	100
35mm	Steel	6GE92	100
40mm	A2 SS	54FT34	50
	Steel	6GE93	50
60mm	A2 SS	54FT35	10
	Steel	6GE96	50
70mm	Steel	6GE97	10
80mm	Steel	6GE98	5
M6-1.00mm Thread Size			
6mm	Steel	6GE99	50
8mm	A2 SS	54FT36	50
	Steel	6GU10	100
10mm	A2 SS	54FT37	25
	A4 SS	6GB21	25
	Steel	6GU11	100
12mm	A2 SS	54FT38	50
	A4 SS	6GB22	25
	Steel	6GU12	100
14mm	Steel	6GU13	100
16mm	A2 SS	54FT39	50
	A4 SS	6GB23	25
	Steel	6GU14	100
18mm	Steel	6GU15	25
20mm	A2 SS	54FT40	50
	A4 SS	6GB24	25
	Steel	6GU16	100
22mm	Steel	6GU17	25
25mm	A2 SS	54FT41	50
	Steel	6GU18	100
30mm	A2 SS	54FT42	25
	Steel	6GU19	100
35mm	A2 SS	54FT43	25
	Steel	6GU20	100
40mm	A2 SS	54FT44	25
50mm	Steel	6GU23	50
60mm	Steel	6GU24	25
70mm	Steel	6GU25	10
75mm	Steel	6GU26	10
80mm	Steel	6GU27	5
M8-1.25mm Thread Size			
10mm	Steel	6GU28	10
16mm	Steel	6GU30	50
20mm	A2 SS	54FT45	25
	Steel	6GU31	50
25mm	A2 SS	54FT46	10
30mm	A2 SS	38EA31	50
	Steel	6GU33	10
40mm	Steel	6GU35	10
80mm	Steel	6GU39	1
M10-1.50mm Thread Size			
16mm	Steel	6GU40	5
20mm	Steel	6GU41	5
35mm	Steel	6GU44	5
40mm	Steel	6GU45	1

Pan Head Machine Screws with Washer

Meet ASME/ANSI B18.13 standards.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.


w/Internal Tooth Lock Washer


w/Split Lock Washer

Length	Material	Item No.	Pkg. Qty.
Dual Action Spring, Phillips Drive			
#4-40 Thread			
¼ in	18-8 SS	**1KAE6**	25
⅜ in	18-8 SS	**1KAE8**	25
7⁄16 in	18-8 SS	**1KAE9**	25
#6-32 Thread			
¼ in	Steel	**1PWV7**	100
⅜ in	Steel	**1PWV9**	100
½ in	18-8 SS	**1PWT9**	25
	Steel	**1PWX2**	100
¾ in	Steel	**1PWX4**	100
#8-32 Thread			
⅜ in	18-8 SS	**1PWU4**	25
	Steel	**1PWX7**	100
7⁄16 in	18-8 SS	**1PWU6**	25
½ in	18-8 SS	**1PWU8**	25
	Steel	**1PWX8**	100
¾ in	Steel	**1PWX9**	50
1 in	Steel	**1PWY2**	50
#10-32 Thread			
½ in	18-8 SS	**1PWV3**	25
⅝"	18-8 SS	**1PWV5**	25
External Tooth, Hex Drive			
#6-32 Thread			
¼ in	Steel	**1PWY4**	100
⅜ in	Steel	**1PWY6**	100
½ in	Steel	**1PWY7**	100
#8-32 Thread			
⅜ in	Steel	**1PWY8**	100
½ in	Steel	**1PWY9**	100
#10-24 Thread			
⅜ in	Steel	**1PWZ1**	100
½ in	Steel	**1PWZ2**	100
#10-32 Thread			
⅜ in	Steel	**1PWZ3**	100
½ in	Steel	**1PWZ4**	100
¼"-20 Thread			
⅜"	Steel	**1PWZ5**	100
½ in	Steel	**1PWZ7**	50
¾ in	Steel	**1PWZ9**	50
1 in	Steel	**1PXA3**	25
External Tooth, Phillips Drive			
#4-40 Thread			
3⁄16 in	18-8 SS	**1ZE84**	50
¼ in	Steel	**1PXF3**	100
	18-8 SS	**1ZE85**	50
5⁄16 in	18-8 SS	**1PXA5**	50
⅜ in	18-8 SS	**1ZE86**	50
½ in	18-8 SS	**1PXA8**	50
	Steel	**1PXF5**	100
⅝ in	Steel	**1PXF6**	100
¾ in	Steel	**1PXF7**	100
#6-32 Thread			
3⁄16"	18-8 SS	**1PXB5**	50
3⁄16 in	Steel	**1PXF8**	100
¼ in	Steel	**1PXF9**	100
	18-8 SS	**1ZE87**	50
5⁄16 in	Steel	**1PXG1**	100
	18-8 SS	**1ZE88**	50
⅜ in	Steel	**1PXG2**	100
	18-8 SS	**1ZE89**	50
7⁄16 in	Steel	**1PXG3**	100
½ in	Steel	**1PXG4**	100
	18-8 SS	**1ZE90**	50
¾ in	18-8 SS	**1PXC1**	50
	Steel	**1PXG5**	100
1 in	18-8 SS	**1PXC5**	25
1 ½ in	18-8 SS	**1PXC9**	10
1 in	Steel	**1PXG6**	100
1 ¼ in	Steel	**1PXG7**	100
#8-32 Thread			
¼ in	Steel	**1PXG8**	100
	18-8 SS	**1ZE91**	50
5⁄16 in	18-8 SS	**1PXD2**	50
	Steel	**1PXG9**	100
⅜ in	Steel	**1PXH1**	100
	18-8 SS	**1ZE92**	50
7⁄16 in	Steel	**1PXH2**	100
½ in	Steel	**1PXH3**	100
	18-8 SS	**1ZE93**	50
⅝ in	18-8 SS	**1PXD6**	50
¾ in	18-8 SS	**1PXD8**	25
	Steel	**1PXH4**	100
1 in	18-8 SS	**1PXE1**	25
1 ¼ in	Steel	**1PXH5**	100
#10-24 Thread			
⅜ in	Steel	**1PXH6**	100
½ in	Steel	**1PXH7**	100
#10-32 Thread			
¼ in	18-8 SS	**1PXE3**	25
⅜ in	18-8 SS	**1PXE4**	25
⅜"	Steel	**1PXH8**	100
½ in	18-8 SS	**1PXE5**	25
½"	Steel	**1PXH9**	100
¾ in	18-8 SS	**1PXE7**	25
	Steel	**1PXJ1**	100
¼"-20 Thread			
½ in	18-8 SS	**1PXE8**	5
	Steel	**1PXJ2**	50
⅝ in	18-8 SS	**1PXE9**	5
¾ in	18-8 SS	**1PXF1**	5
	Steel	**1PXJ3**	50
1 in	18-8 SS	**1PXF2**	5
Internal Tooth, Phillips Drive			
#2-56 Thread			
3⁄16 in	Steel	**1PXP3**	50
¼ in	Steel	**1PXP4**	50
⅜ in	18-8 SS	**1PXJ6**	50
	Steel	**1PXP5**	50
#4-40 Thread			
3⁄16 in	18-8 SS	**1PXK1**	50
	Steel	**1PXP6**	50
¼ in	18-8 SS	**1PXK2**	50
	Steel	**1PXP7**	100
5⁄16 in	18-8 SS	**1ZE74**	50
⅜ in	Steel	**1PXP8**	100
	18-8 SS	**1ZE75**	50
7⁄16 in	18-8 SS	**1PXK3**	50
½ in	18-8 SS	**1PXK4**	50
	Steel	**1PXP9**	100
¾ in	18-8 SS	**1PXK6**	50
1 in	18-8 SS	**1PXK8**	25
#6-32 Thread			
3⁄16 in	18-8 SS	**1PXK9**	50
¼ in	Steel	**1PXR2**	100
	18-8 SS	**1ZE76**	50
5⁄16 in	18-8 SS	**1ZE77**	50
⅜ in	Steel	**1PXR3**	100
	18-8 SS	**1ZE78**	50
7⁄16 in	18-8 SS	**1PXL1**	50
½ in	18-8 SS	**1PXL2**	50
	Steel	**1PXR4**	100
⅝ in	18-8 SS	**1ZE79**	50
¾ in	18-8 SS	**1PXL3**	50
	Steel	**1PXR5**	100
1 in	18-8 SS	**1PXL5**	25
1 ½ in	18-8 SS	**1PXL7**	10
1"	Steel	**1PXR6**	100
1 ¼ in	Steel	**1PXR7**	50
#8-32 Thread			
¼ in	18-8 SS	**1PXL8**	50
	Steel	**1PXR8**	100
5⁄16 in	18-8 SS	**1PXL9**	50
⅜"	Steel	**1PXR9**	100
⅜ in	18-8 SS	**1ZE80**	50
7⁄16 in	18-8 SS	**1PXN1**	50
½ in	Steel	**1PXT1**	100
	18-8 SS	**1ZE81**	50
⅝ in	18-8 SS	**1PXN2**	50
¾ in	18-8 SS	**1PXN3**	25
¾"	Steel	**1PXT2**	100
1 in	18-8 SS	**1PXN4**	25
1 ¼ in	Steel	**1PXT3**	100
#10-24 Thread			
½ in	Steel	**1PXT4**	100
#10-32 Thread			
¼ in	18-8 SS	**1PXN5**	25
⅜"	Steel	**1PXT5**	100
⅜ in	18-8 SS	**1ZE82**	25
½"	Steel	**1PXT6**	100
½ in	18-8 SS	**1ZE83**	25
⅝ in	18-8 SS	**1PXN6**	25
¾ in	18-8 SS	**1PXN7**	25
¾"	Steel	**1PXT7**	100
¼"-20 Thread			
½ in	18-8 SS	**1PXN8**	5
	Steel	**1PXT8**	100
¾ in	18-8 SS	**1PXP1**	5
	Steel	**1PXT9**	50
1 in	18-8 SS	**1PXP2**	5
Split Lock, Phillips Drive			
#4-40 Thread			
¼ in	Steel	**1PXU1**	100
5⁄16 in	Steel	**1PXU2**	100
½ in	Steel	**1PXU4**	100
#6-32 Thread			
¼ in	Steel	**1PXU5**	100
5⁄16 in	Steel	**1PXU6**	100
⅜"	Steel	**1PXU7**	100
½ in	Steel	**1PXU8**	100
⅝ in	Steel	**1PXU9**	100
#8-32 Thread			
⅜"	Steel	**1PXW1**	100
½ in	Steel	**1PXW2**	100
⅝ in	Steel	**1PXW3**	100
#10-32 Thread			
⅜ in	Steel	**1PXW5**	100
½ in	Steel	**1PXW6**	100

Truss Head Machine Screws

- Phillips drive

Meet ANSI/ASME B18.6.13.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.


Phillips Drive

Length	Material	Item No.	Pkg. Qty.
#4-40 Thread			
¼"	18-8 SS	**2CB71**	100
5⁄16"	18-8 SS	**2CB73**	100
⅜"	18-8 SS	**2CB75**	100
½"	18-8 SS	**2CB77**	100
#6-32 Thread			
¼"	18-8 SS	**2CB79**	100
⅜"	18-8 SS	**2CB83**	100
	Steel	**31JT47**	100
7⁄16"	18-8 SS	**2CB86**	100
½"	18-8 SS	**2CB89**	100
	Steel	**31JT48**	100
⅝"	18-8 SS	**2CB92**	100
¾"	18-8 SS	**2CB95**	100
1"	18-8 SS	**2CB98**	100
	Steel	**31JT49**	100
#8-32 Thread			
¼"	18-8 SS	**2CE11**	100
5⁄16"	18-8 SS	**2CE14**	100
⅜"	18-8 SS	**2CE16**	100
	Steel	**31JT50**	100
7⁄16"	18-8 SS	**2CE19**	100
½"	18-8 SS	**2CE22**	100
	Steel	**31JT51**	100
⅝"	18-8 SS	**2CE25**	100
¾"	18-8 SS	**2CE28**	100
	Steel	**31JT52**	100
1"	18-8 SS	**2CE31**	100
1 ¼"	18-8 SS	**2CE34**	100
#10-24 Thread			
⅜"	18-8 SS	**2CE37**	100
½"	18-8 SS	**2CE40**	100
	Steel	**31JT53**	100
⅝"	18-8 SS	**2CE43**	100
¾"	18-8 SS	**2CE46**	100
⅞"	18-8 SS	**2CE49**	100
1"	18-8 SS	**2CE52**	100
1 ¼"	18-8 SS	**2CE55**	100
1 ½"	18-8 SS	**2CE58**	100
2"	18-8 SS	**31KJ39**	50
#10-32 Thread			
¼"	18-8 SS	**2CE64**	100
5⁄16"	18-8 SS	**2CE67**	100
⅜"	18-8 SS	**2CE70**	100
½"	18-8 SS	**2CE73**	100
⅝"	18-8 SS	**2CE76**	100
¾"	18-8 SS	**2CE79**	100
1"	18-8 SS	**2CE82**	100
1 ¼"	18-8 SS	**2CE85**	100
1 ½"	18-8 SS	**2CE88**	100
¼"-20 Thread			
⅜"	18-8 SS	**31JV50**	50
½"	18-8 SS	**31JV51**	50
⅝	18-8 SS	**31JV52**	50
¾"	18-8 SS	**31JV53**	50
1"	18-8 SS	**3AWR2**	50
1 ¼"	18-8 SS	**3AWP8**	50
1 ½"	18-8 SS	**2CU19**	50
1 ¾"	18-8 SS	**2CU22**	50
2"	18-8 SS	**3AWR1**	25
2 ½"	18-8 SS	**3AWP9**	25
5⁄16"-18 Thread			
¾"	18-8 SS	**3AWR8**	25
1"	18-8 SS	**3AWR7**	25
1 ½"	18-8 SS	**3AWR6**	25



18-8 Stainless Steel Hex Trim Head Machine Screws

Meet ANSI/ASME B18.6.3 standard.

Note: Zinc-plated also available; on Grainger.com®, search for "Zinc-plated hex head machine screws".

Length	Item No.	Pkg. Qty.
#4-40 Thread, 3⁄16" Drive		
¼"	**1PRV7**	100
⅜"	**1PRV8**	100
½"	**1PRV9**	100
¾"	**1PRW1**	100
#6-32 Thread, ¼" Drive		
¼"	**1PRW2**	100
5⁄16"	**1PRW3**	100
⅜"	**1PRW4**	100
½"	**1PRW5**	100
⅝"	**1PRW6**	100
¾"	**1PRW7**	100
1"	**1PRW8**	100
#8-32 Thread, ¼" Drive		
¼"	**1PRW9**	100
5⁄16"	**1PRX1**	100
⅜"	**1PRX2**	100
½"	**1PRX3**	100
⅝"	**1PRX4**	100
¾"	**1PRX5**	100
⅞"	**1PRX6**	100
1"	**1PRX7**	100
1 ¼"	**1PRX8**	100
1 ½"	**1PRX9**	50
#10-24 Thread, 5⁄16" Drive		
¼"	**1PRY1**	100
⅜"	**1PRY2**	100
½"	**1PRY3**	100
⅝"	**1PRY4**	100
¾"	**1PRY5**	100
1"	**1PRY6**	100
1 ¼"	**1PRY7**	50
1 ½"	**1PRY8**	50
#10-32 Thread, 5⁄16" Drive		
¼"	**1PRY9**	100
5⁄16"	**1PRZ1**	100
⅜"	**1PRZ2**	100
½"	**1PRZ3**	100
⅝"	**1PRZ4**	100



APM HEXSEAL®

Self-Sealing Pan Head Machine Screws

- Max. pressure: 20,000 psi
- Temp. range: -160° to 500°F
- Phillips drive

18-8 stainless steel with silicone rubber. O-ring is reusable. UL Recognized. CSA compliant.

Hole Size	Length	Item No.	Pkg. Qty.
#4-40 Thread			
0.125 to 0.129"	¼"	**5NA30**	25
	⅜"	**5NA92**	10
	½"	**5NA94**	10
#6-32 Thread			
0.147 to 0.152"	¼"	**5NB12**	25
	5⁄16"	**5NB14**	10
	⅜"	**5NB16**	10
	½"	**5NB18**	10
	⅝"	**5NB20**	10
	¾"	**5NB22**	10
	1"	**5NB24**	10
#8-32 Thread			
0.173 to 0.179"	¼"	**5NB30**	10
	⅜"	**5NB32**	10
	½"	**5NB34**	10
	¾"	**5NB36**	10
	1"	**5NB38**	10
#10-32 Thread			
0.199 to 0.204"	⅜"	**5NB40**	10
	½"	**5NB42**	10
	⅝"	**5NB44**	10
	¾"	**5NB46**	10
	1"	**5NB48**	10
¼"-20 Thread			
0.265 to 0.269"	½"	**5NB50**	5
	¾"	**5NB52**	5
	1"	**5NB54**	5

Flat Head Machine Screws

- 82° head angle

Meet ANSI/ASME B18.6.3 standard.


Phillips Drive


Torx® Drive

FABORY GRAINGER APPROVED

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material*	Brand	Item No.	Pkg. Qty.
#2-56 Thread Phillips Drive				
1/2"	18-8 SS	Fabory	**2AA38**	100
1/4"	18-8 SS	Fabory	**2AA30**	100
1/8"	18-8 SS	Fabory	**2AA26**	100
3/16"	18-8 SS	Fabory	**2AA28**	100
3/4"	18-8 SS	Fabory	**2AA44**	100
3/8"	18-8 SS	Fabory	**2AA34**	100
5/16"	18-8 SS	Fabory	**2AA32**	100
5/8"	18-8 SS	Fabory	**2AA42**	100
7/16"	18-8 SS	Fabory	**2AA36**	100
7/8"	18-8 SS	Fabory	**2AA46**	100
9/16"	18-8 SS	Fabory	**2AA40**	100
1"	18-8 SS	Fabory	**2AA48**	100
#4-40 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MU68**	100
	18-8 SS	Fabory	**2AA76**	100
1 1/4"	18-8 SS	Fabory	**2AA74**	100
1/2"	Steel	Fabory	**1MU65**	100
	18-8 SS	Fabory	**2AA62**	100
1/4"	Steel	Fabory	**1MU63**	100
	18-8 SS	Fabory	**2AA54**	100
1/8"	18-8 SS	Fabory	**2AA50**	100
3/16"	18-8 SS	Fabory	**2AA52**	100
3/4"	Steel	Fabory	**1MU66**	100
	18-8 SS	Fabory	**2AA68**	100
3/8"	Steel	Fabory	**1MU64**	100
	18-8 SS	Fabory	**2AA58**	100
5/16"	18-8 SS	Fabory	**2AA56**	100
5/8"	18-8 SS	Fabory	**2AA66**	100
7/16"	18-8 SS	Fabory	**2AA60**	100
7/8"	18-8 SS	Fabory	**2AA70**	100
9/16"	18-8 SS	Fabory	**2AA64**	100
1"	Steel	Fabory	**1MU67**	100
	18-8 SS	Fabory	**2AA72**	100
#4-40 Thread Torx Drive				
1/2"	Steel	Tamper-Pruf Screw	**5JU88**	100
5/8"	Steel	Tamper-Pruf Screw	**5JU89**	100
#6-32 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MU76**	100
	18-8 SS	Fabory	**2AB12**	100
1 1/4"	Steel	Fabory	**1MU75**	100
	18-8 SS	Fabory	**2AB10**	100
1 3/4"	18-8 SS	Fabory	**2AB15**	100
2 1/2"	18-8 SS	Fabory	**2AB19**	100
1/2"	Steel	Fabory	**1MU71**	100
	18-8 SS	Fabory	**2AA88**	100
1/4"	Steel	Fabory	**1MU69**	100
	18-8 SS	Fabory	**2AA80**	100
3/16"	18-8 SS	Fabory	**2AA78**	100
3/4"	Steel	Fabory	**1MU73**	100
	18-8 SS	Fabory	**2AA94**	100
3/8"	Steel	Fabory	**1MU70**	100
	18-8 SS	Fabory	**2AA84**	100
5/16"	18-8 SS	Fabory	**2AA82**	100
5/8"	Steel	Fabory	**1MU72**	100
	18-8 SS	Fabory	**2AA92**	100
7/16"	18-8 SS	Fabory	**2AA86**	100
7/8"	18-8 SS	Fabory	**2AA96**	100
9/16"	18-8 SS	Fabory	**2AA90**	100
1"	Steel	Fabory	**1MU74**	100
	18-8 SS	Fabory	**2AA98**	100
2"	Steel	Fabory	**1MU77**	100
	18-8 SS	Fabory	**2AB17**	100
3"	18-8 SS	Fabory	**31KJ35**	50
#6-32 Thread Torx Drive				
1 1/2"	Steel	Tamper-Pruf Screw	**5JU97**	50
3/4"	Steel	Tamper-Pruf Screw	**5JU94**	100
1"	Steel	Tamper-Pruf Screw	**5JU95**	100
2"	Steel	Tamper-Pruf Screw	**5JU98**	50
#8-32 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MU84**	100
	18-8 SS	Fabory	**2AB43**	100
1 1/4"	Steel	Fabory	**1MU83**	100
	18-8 SS	Fabory	**2AB41**	100
1 3/4"	18-8 SS	Fabory	**2AB45**	100
2 1/2"	Steel	Fabory	**1MU86**	100
	18-8 SS	Fabory	**2AB49**	100
2 3/4"	18-8 SS	Fabory	**31KH72**	100
1/2"	18-8 SS	Fabory	**2AB31**	100
1/4"	Steel	Fabory	**1MU78**	100
	18-8 SS	Fabory	**2AB23**	100
3/4"	Steel	Fabory	**1MU81**	100
	18-8 SS	Fabory	**2AB35**	100
3/8"	Steel	Fabory	**1MU79**	100
	18-8 SS	Fabory	**2AB27**	100
5/16"	18-8 SS	Fabory	**2AB25**	100
5/8"	Steel	Fabory	**1MU80**	100
	18-8 SS	Fabory	**2AB33**	100
7/16"	18-8 SS	Fabory	**2AB29**	100
7/8"	18-8 SS	Fabory	**2AB37**	100
1"	Steel	Fabory	**1MU82**	100
	18-8 SS	Fabory	**2AB39**	100
2"	Steel	Fabory	**1MU85**	100
	18-8 SS	Fabory	**2AB47**	100
3"	Steel	Fabory	**1MU87**	100
	18-8 SS	Fabory	**2AB53**	50
#8-32 Thread Torx Drive				
1 1/2"	Steel	Tamper-Pruf Screw	**5JY13**	50
1 1/4"	Steel	Tamper-Pruf Screw	**5JY12**	50
1"	Steel	Tamper-Pruf Screw	**5JY11**	100
1 1/2"	Steel	Fabory	**1MU94**	100
	18-8 SS	Fabory	**2AB73**	100
1 1/4"	Steel	Fabory	**1MU93**	100
	18-8 SS	Fabory	**2AB71**	100
1 3/4"	18-8 SS	Fabory	**2AB75**	100
2 1/2"	Steel	Fabory	**1MU96**	100
	18-8 SS	Fabory	**31KJ37**	50
1/2"	Steel	Fabory	**1MU89**	100
	18-8 SS	Fabory	**2AB61**	100
1/4"	18-8 SS	Fabory	**2AB55**	100
3/4"	Steel	Fabory	**1MU91**	100
	18-8 SS	Fabory	**2AB65**	100
3/8"	Steel	Fabory	**1MU88**	100
	18-8 SS	Fabory	**2AB59**	100
5/16"	18-8 SS	Fabory	**2AB57**	100
5/8"	Steel	Fabory	**1MU90**	100
	18-8 SS	Fabory	**2AB63**	100
7/8"	18-8 SS	Fabory	**2AB67**	100
1"	Steel	Fabory	**1MU92**	100
	18-8 SS	Fabory	**2AB69**	100
2"	Steel	Fabory	**1MU95**	100
	18-8 SS	Fabory	**31KJ36**	50
3"	Steel	Fabory	**1MU97**	100
	18-8 SS	Fabory	**2AB81**	50
#10-24 Thread Torx Drive				
2 1/2"	Steel	Tamper-Pruf Screw	**5JY20**	50
#10-32 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MY15**	100
	18-8 SS	Fabory	**2AE13**	100
1 1/4"	18-8 SS	GA	**2AE11**	100
1 3/4"	18-8 SS	GA	**2AE15**	100
2 1/2"	Steel	GA	**1MY17**	100
	18-8 SS	GA	**2AE19**	100
1/2"	Steel	Fabory	**1MY10**	100
	18-8 SS	Fabory	**2AB91**	100
1/4"	18-8 SS	GA	**2AB83**	100
3/4"	Steel	Fabory	**1MY12**	100
	18-8 SS	Fabory	**2AB95**	100
3/8"	Steel	GA	**1MU99**	100
	18-8 SS	Fabory	**2AB87**	100
5/16"	18-8 SS	GA	**2AB85**	100
5/8"	Steel	GA	**1MY11**	100
	18-8 SS	Fabory	**2AB93**	100
7/16"	18-8 SS	GA	**2AB89**	100
7/8"	18-8 SS	GA	**2AB97**	100
1"	Steel	Fabory	**1MY13**	100
	18-8 SS	GA	**2AB99**	100
2"	18-8 SS	GA	**2AE17**	100
3"	Steel	GA	**1MY18**	100
	18-8 SS	GA	**2AE21**	50
#12-24 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MY24**	100
1 1/4"	Steel	Fabory	**1MY23**	100
1/2"	Steel	Fabory	**1MY20**	100
3/4"	Steel	Fabory	**1MY21**	100
3/8"	Steel	Fabory	**1MY19**	100
1"	Steel	Fabory	**1MY22**	100
1 1/2"	Steel	Fabory	**1MY31**	100
	18-8 SS	Fabory	**31JV38**	50
1 1/4"	Steel	Fabory	**1MY30**	100
	18-8 SS	Fabory	**31JV37**	50
1 3/4"	18-8 SS	Fabory	**3AWL4**	50
2 1/2"	Steel	Fabory	**1MY33**	100
	18-8 SS	Fabory	**2AE45**	50
2 1/4"	18-8 SS	Fabory	**2AE43**	50
1/2"	Steel	Fabory	**1MY26**	100
	18-8 SS	Fabory	**31JV32**	50
3/4"	Steel	Fabory	**1MY28**	100
	18-8 SS	Fabory	**31JV34**	50
3/8"	Steel	Fabory	**1MY25**	100
	18-8 SS	Fabory	**31JV31**	50
5/8	18-8 SS	Fabory	**31JV33**	50
5/8"	Steel	Fabory	**1MY27**	100
7/8"	18-8 SS	Fabory	**31JV35**	50
	18-8 SS	GA	**3AWL3**	100
1"	Steel	Fabory	**1MY29**	100
	18-8 SS	Fabory	**31JV36**	50
2"	Steel	Fabory	**1MY32**	100
	18-8 SS	Fabory	**2AE41**	50
3"	Steel	Fabory	**1MY34**	100
	18-8 SS	Fabory	**2AE47**	25
1/4"-20 Thread Torx Drive				
1"	Steel	Tamper-Pruf Screw	**5JY22**	100
5/16"-18 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MY40**	100
	18-8 SS	Fabory	**3AWL9**	25
1 1/4"	18-8 SS	Fabory	**2AE61**	25
1 3/4"	18-8 SS	Fabory	**3AWN8**	25
2 1/2"	Steel	Fabory	**1MY42**	100
	18-8 SS	Fabory	**3AWN9**	10
1/2"	18-8 SS	Fabory	**3AWN4**	25
3/4"	Steel	Fabory	**1MY37**	100
	18-8 SS	Fabory	**3AWN2**	25
5/8"	18-8 SS	Fabory	**2AE55**	25
1"	Steel	Fabory	**1MY38**	100
	18-8 SS	Fabory	**3AWL7**	25
2"	Steel	Fabory	**1MY41**	100
	18-8 SS	Fabory	**31JV40**	10
3"	Steel	Fabory	**1MY43**	100
	18-8 SS	Fabory	**2AE71**	10
3/8"-16 Thread Phillips Drive				
1 1/2"	Steel	Fabory	**1MY45**	100
	18-8 SS	Fabory	**31JV42**	25
1 1/4"	18-8 SS	Fabory	**31JV41**	25
1 3/4"	18-8 SS	GA	**2AE86**	10
	18-8 SS	Fabory	**31JV43**	25
2 1/2"	18-8 SS	Fabory	**2AE90**	10
3/4"	18-8 SS	Fabory	**3AWP3**	25
1"	Steel	Fabory	**1MY44**	100
	18-8 SS	Fabory	**3AWP2**	25
2"	18-8 SS	Fabory	**3AWN6**	10
3"	Steel	Fabory	**1MY46**	50
	18-8 SS	Fabory	**3AWN7**	10

**** Steel screws are zinc-plated.***

Metric Flat Head Machine Screws

- 90° head angle
- Phillips drive

Meet DIN 965 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.


Phillips Drive

Length	Material	Item No.	Pkg. Qty.
M2-0.40mm Thread			
4mm	Steel	**6HB56**	100
5mm	Steel	**6HB57**	100
6mm	Steel	**6HB58**	100
8mm	Steel	**6HB59**	100
10mm	Steel	**6HB60**	100
12mm	Steel	**6HB61**	100
M2.5-0.45mm Thread			
4mm	Steel	**6HB64**	100
5mm	Steel	**6HB65**	100
6mm	Steel	**6HB66**	100
8mm	Steel	**6HB67**	100
10mm	Steel	**6HB68**	100
16mm	Steel	**6HB70**	100
M3-0.50mm Thread			
4mm	Steel	**6HB72**	100
	A2 SS	**6HA94**	100
5mm	A4 SS	**31JR81**	50
	Steel	**6HB73**	100
6mm	A4 SS	**31JR82**	50
	Steel	**6HB74**	100
8mm	A4 SS	**31JR83**	50
10mm	A4 SS	**31JR84**	50
	Steel	**6HB76**	100
12mm	A4 SS	**31JR85**	50
	Steel	**6HB77**	100
14mm	Steel	**6HB78**	100
16mm	A4 SS	**31JR86**	50
	Steel	**6HB79**	100
20mm	A4 SS	**31JR87**	50
25mm	Steel	**6HB81**	100
30mm	Steel	**6HB82**	100
35mm	A2 SS	**31KH82**	100
40mm	Steel	**6HB83**	100
50mm	Steel	**6HB85**	50
M4-0.70mm Thread			
6mm	A4 SS	**31JR88**	50
	Steel	**6HB86**	100
8mm	A4 SS	**31JR89**	50
	Steel	**6HB87**	100
10mm	A4 SS	**31JR90**	50
	Steel	**6HB88**	100
12mm	A4 SS	**31JR91**	50
	Steel	**6HB89**	100
14mm	Steel	**6HB90**	100
16mm	A4 SS	**31JR92**	50
	Steel	**6HB91**	100
20mm	A4 SS	**6HA60**	50
	Steel	**6HB92**	100
25mm	A4 SS	**31KH62**	50
	Steel	**6HB93**	100
30mm	Steel	**6HB94**	100
40mm	A2 SS	**31JR65**	100
	Steel	**6HB96**	100
45mm	A2 SS	**31KH83**	100
	Steel	**6HB97**	100
60mm	Steel	**6HB98**	50
80mm	Steel	**6HB99**	25
M5-0.80mm Thread			
8mm	Steel	**6HE10**	100
10mm	A4 SS	**6HA62**	50
	Steel	**6HE11**	100
12mm	A4 SS	**31KJ08**	25
	Steel	**6HE12**	100
14mm	Steel	**6HE13**	100
16mm	A4 SS	**31KJ09**	25
	Steel	**6HE14**	100
20mm	A4 SS	**31KJ10**	25
	Steel	**6HE15**	100
	A2 SS	**31KH84**	100
25mm	A4 SS	**6HA66**	25
	Steel	**6HE16**	100
30mm	A4 SS	**31JR93**	25
	Steel	**6HE17**	100
35mm	Steel	**6HE18**	100
40mm	A4 SS	**6HA68**	10
	Steel	**31JP83**	50
50mm	Steel	**31JP84**	50
60mm	Steel	**6HE21**	25
M6-1.00mm Thread			
10mm	A4 SS	**31KJ11**	25
	Steel	**6HE22**	100
12mm	A4 SS	**31KJ12**	25
	Steel	**6HE23**	100
16mm	A4 SS	**31KJ13**	25
	Steel	**6HE24**	100
20mm	A4 SS	**31KJ14**	25
	Steel	**6HE25**	100
25mm	A4 SS	**31JR94**	10
	Steel	**6HE26**	100
	A2 SS	**31KH85**	100
30mm	A4 SS	**6HA74**	10
	Steel	**6HE27**	100
	A2 SS	**31KH86**	100
35mm	A4 SS	**6HA75**	10
	Steel	**6HE28**	100
40mm	A4 SS	**6HA76**	10
	Steel	**31JP85**	50
45mm	A2 SS	**31KH87**	50
	Steel	**6HE30**	50
50mm	A2 SS	**31KH88**	50
	Steel	**31JP86**	50
60mm	Steel	**6HE32**	25
80mm	Steel	**6HE33**	25
M8-1.25mm Thread			
16mm	A2 SS	**6HB47**	50
	Steel	**6HE34**	50
20mm	A2 SS	**31KH89**	50
	Steel	**6HE35**	50
25mm	A2 SS	**31KH90**	50
	Steel	**6HE36**	50
30mm	A2 SS	**31KH91**	50
	Steel	**6HE37**	50
35mm	Steel	**31JP87**	25
40mm	Steel	**31JP88**	25
50mm	A2 SS	**31KH92**	25
	Steel	**31JP89**	25



Pan-Head, Phillips Drive

Thread-Cutting Screws

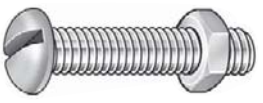
Tapping screws create a zero-clearance, tight fit in hard materials such as plastic, heavy-gauge sheet metal, aluminum, cast iron, brass, zinc, and lead die castings. Meet ANSI/ASME B18.6 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

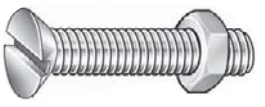
Thread Size	L	Driver Size	Item No.		Pkg. Qty.
410 Stainless Steel					
Pan Head, Phillips					
4-40	¼"	#1	**1WU14**		100
	⅜"	#1	**1WU16**		100
6-32	⅜"	#2	**1WU20**		100
	½"	#2	**1WU22**		100
	⅝"	#2	**1WU24**		100
	¾"	#2	**1WU26**		100
8-32	¼"	#2	**1WU28**		100
	⅜"	#2	**1WU30**		100
	½"	#2	**1WU32**		100
	⅝"	#2	**1WU34**		100
	¾"	#2	**1WU36**		100
10-24	⅜"	#2	**1WU38**		100
	½"	#2	**1WU40**		100
	⅝"	#2	**1WU42**		100
	¾"	#2	**1WU44**		100
10-32	⅜"	#2	**1WU46**		100
	½"	#2	**1WU48**		100
	⅝"	#2	**1WU50**		100
	¾"	#2	**1WU52**		100
Case Hardened Steel					
Flat Head, Star					
¼-20	1"	T30	**6YE70**	*	100
	1½"	T30	**6YE72**	*	100
¼"-20	2"	T30	**6YE73**	*	100
¼-20	2½"	T30	**6YE75**	*	100
⅝-18	2"	T40	**6YE76**	*	50
Pan Head, Phillips					
10-32	½"	#2	**1HA48**		100
¼-20	¾"	#3	**1HA51**		25
	1"	#3	**1HA52**		25

Thread Size	L	Driver Size	Item No.		Pkg. Qty.
Hardened Steel					
Flat Head, Star					
¼-20	1¼"	T30	**6YE71**	*	100
	2¼"	T30	**6YE74**	*	100
	2¼"	T40	**6YE77**	*	50
⅝-18	2½"	T40	**6YE78**	*	50
	3"	T40	**6YE79**	*	50
Pan Head, Phillips					
4-40	¼"	#1	**1HA29**		100
	⅜"	#1	**1HA30**		100
	½"	#1	**1HA31**		100
6-32	¼"	#2	**1HA32**		100
	⅜"	#2	**1HA33**		100
	½"	#2	**1HA34**		100
	⅝"	#2	**1HA35**		100
	¾"	#2	**1HA36**		100
8-32	⅜"	#2	**1HA37**		100
	½"	#2	**1HA38**		100
	⅝"	#2	**1HA39**		100
	¾"	#2	**1HA40**		100
	1"	#2	**1HA41**		100
10-24	⅜"	#2	**1HA42**		100
	½"	#2	**1HA43**		100
	⅝"	#2	**1HA44**		100
	¾"	#2	**1HA45**		100
	1"	#2	**1HA46**		50
10-32	⅜"	#2	**1HA47**		100
	¾"	#2	**1HA49**		100
¼-20	½"	#3	**1HA50**		25

**** Especially for installing wood floors into truck trailers.***



Round Head



Flat Head

Stove Bolts

FABORY

GRAINGER APPROVED

- Slotted drive
- Pkg. 100

Machine screws come with matching nuts for easy installation. Zinc-plated low-carbon steel. Meet ASME B18.6.3 standard.

Length	Head Type	Brand	Item No.
#6-32 Thread			
¾"	Round	Fabory	**2XJ81**
1"	Round	Fabory	**2XJ82**
1½"	Round	Fabory	**2XJ83**
2"	Round	Fabory	**2XJ84**
#8-32 Thread			
½"	Round	Fabory	**2EA55**
¾"	Round	Fabory	**2EA57**
1"	Round	Fabory	**2EA59**
1½"	Round	Fabory	**2EA61**
#10-24 Thread			
½"	Round	Fabory	**2EA63**
⅝"	Round	Fabory	**2EA65**
¾"	Round	Fabory	**2EA67**
1"	Round	Fabory	**2EA68**
1½"	Round	Fabory	**2EA72**
2"	Round	Fabory	**2EA76**
2½"	Round	Fabory	**2EA78**
3"	Round	Fabory	**2EA80**
3⁄16"-24 Thread			
1"	Flat	GA	**2XJ60**
1½"	Flat	GA	**2XJ62**
2"	Flat	GA	**2XJ63**
3"	Flat	GA	**2XJ64**
4"	Flat	GA	**2XJ65**
¼"-20 Thread			
⅜"	Round	Fabory	**2EA82**
½"	Round	Fabory	**2EA84**
⅝"	Round	Fabory	**2EA86**

Length	Head Type	Brand	Item No.
¾"	Round	Fabory	**2EA87**
	Flat	GA	**2XJ66**
1"	Round	Fabory	**2EA89**
	Flat	GA	**2XJ67**
1¼"	Round	Fabory	**2EA91**
	Flat	GA	**2XJ68**
1½"	Round	Fabory	**2EA93**
	Flat	GA	**2XJ69**
1¾"	Round	Fabory	**2EA95**
2"	Round	Fabory	**2EA97**
	Flat	GA	**2XJ70**
2¼"	Round	Fabory	**2XJ86**
	Flat	GA	**2XJ71**
2½"	Round	Fabory	**2XJ87**
3"	Round	Fabory	**2EA99**
	Flat	GA	**2XJ72**
4"	Round	Fabory	**2EB11**
	Flat	GA	**2XJ73**
5"	Round	Fabory	**2EB13**
6"	Round	Fabory	**2XJ88**
	Flat	GA	**2XJ74**
⅝"-18 Thread			
1½"	Flat	GA	**2XJ75**
2"	Round	Fabory	**2XJ89**
	Flat	GA	**2XJ76**
2½"	Round	Fabory	**2XJ90**
⅜"-16 Thread			
1¼"	Flat	Fabory	**2XJ78**
1½"	Round	Fabory	**2XJ91**
	Flat	GA	**2XJ79**
2"	Flat	GA	**2XJ80**
2½"	Round	Fabory	**2XJ92**



Type S



Type P



Quarter-Turn



Wing

Spade Head Screws

Length	Head	Material	Item No.	Pkg. Qty.
6-32 Thread				
⅜"	Type S	Steel	**4FAC7**	25
½"	Type P	Steel	**4EZV3**	25
¾"	Type P	Steel	**4EZV4**	25
8-32 Thread				
⅜"	Type P	Steel	**4EZV5**	25
½"	Type P	18-8 SS	**4EZR6**	5
	Type P	Steel	**4EZV6**	25
	Type S	18-8 SS	**4EZY8**	5
	Type S	Steel	**4FAC9**	25
¾"	Type P	18-8 SS	**4EZR7**	5
	Type P	Steel	**4EZV7**	25
1"	Type P	18-8 SS	**4EZR8**	5
	Type P	Steel	**4EZV8**	25
10-24 Thread				
⅜"	Type P	Steel	**4EZV9**	25
½"	Type P	Steel	**4EZW1**	25
	Type S	18-8 SS	**4EZZ3**	5
	Type S	Steel	**4FAD4**	25
¾"	Type P	18-8 SS	**4EZT2**	5
	Type P	Steel	**4EZW2**	25
	Type S	18-8 SS	**4EZZ4**	5
	Type S	Steel	**4FAD6**	25
1"	Quarter-Turn	18-8 SS	**2JHN7**	1
	Type P	18-8 SS	**4EZT3**	5
	Type P	Steel	**4EZW3**	25
	Type S	18-8 SS	**4EZZ5**	5
	Type S	Steel	**4FAD8**	25
10-32 Thread				
⅜"	Type P	18-8 SS	**4EZT4**	5
½"	Type P	18-8 SS	**4EZT5**	5
	Type P	Steel	**4EZW4**	25
	Type S	18-8 SS	**4EZZ7**	5
	Type S	Steel	**4FAE1**	25
¾"	Type P	18-8 SS	**4EZT6**	5
	Type P	Steel	**4EZW5**	25
	Type S	18-8 SS	**4EZZ8**	5
	Type S	Steel	**4FAE3**	25
1"	Quarter-Turn	Steel	**5PY92**	1
	Type P	18-8 SS	**4EZT7**	5
	Type P	Steel	**4EZW6**	25
	Type S	18-8 SS	**4EZZ9**	5
	Type S	Steel	**4FAE5**	25
1½"	Type P	Steel	**4EZW7**	25
	Type S	Steel	**4FAE7**	25
¼-20 Thread				
½"	Type P	18-8 SS	**4EZT8**	5
	Type P	Steel	**4EZW8**	25
	Type S	18-8 SS	**4FAA1**	5
	Type S	Steel	**4FAE9**	25
¾"	Type P	18-8 SS	**4EZT9**	5
	Type P	Steel	**4EZW9**	25
	Type S	18-8 SS	**4FAA2**	5
	Type S	Steel	**4FAF2**	25
1"	Type P	18-8 SS	**4EZU1**	5
	Type P	Steel	**4EZX1**	25
	Type S	18-8 SS	**4FAA3**	5
	Type S	Steel	**4FAF3**	25

Length	Head	Material	Item No.	Pkg. Qty.
	Quarter-Turn	18-8 SS	**2JHP1**	1
	Quarter-Turn	Steel	**5PY94**	1
1¼"	Type P	Steel	**4EZX2**	25
	Type S	18-8 SS	**4FAA4**	5
	Type S	Steel	**4FAF4**	25
	Type P	18-8 SS	**4EZU2**	5
1½"	Type P	Steel	**4EZX3**	25
	Type S	18-8 SS	**4FAA5**	5
	Type S	Steel	**4FAF5**	25
1¾"	Quarter-Turn	Steel	**5PY95**	1
	Type P	18-8 SS	**4EZU3**	5
2"	Type P	Steel	**4EZX4**	25
	Type S	Steel	**4FAF6**	25
2½"	Type S	Steel	**4FAF7**	25
⅝-18 Thread				
½"	Type P	Steel	**4EZX5**	25
	Type S	Steel	**4FAF8**	10
¾"	Type P	Steel	**4EZX6**	25
	Type S	18-8 SS	**4FAA6**	1
	Type S	Steel	**4FAF9**	10
	Wing	Iron	**4EZP4**	1
1"	Type P	18-8 SS	**4EZU4**	5
	Type P	Steel	**4EZX7**	5
	Type S	18-8 SS	**4FAA8**	1
	Type S	Steel	**4FAH1**	10
	Wing	Iron	**4EZP6**	1
1¼"	Type P	Steel	**4EZX8**	5
	Quarter-Turn	Steel	**5PY96**	1
1½"	Type P	18-8 SS	**4EZU5**	5
	Type P	Steel	**4EZX9**	5
	Type S	18-8 SS	**4FAC1**	1
	Type S	Steel	**4FAH2**	10
	Wing	Iron	**4EZP8**	1
2"	Type P	18-8 SS	**4EZU6**	1
	Type P	Steel	**4EZY1**	5
	Type S	Steel	**4FAH3**	10
	Wing	Iron	**4EZP9**	1
⅜-16 Thread				
¾"	Type P	Steel	**4EZY2**	5
	Type S	Steel	**4FAH4**	10
	Wing	Iron	**4EZR1**	1
1"	Type P	18-8 SS	**4EZU8**	1
	Type P	Steel	**4EZY3**	5
	Type S	18-8 SS	**4FAC3**	1
	Type S	Steel	**4FAH5**	10
	Wing	Iron	**4EZR2**	1
1¼"	Type P	Steel	**4EZY4**	5
1½"	Quarter-Turn	Steel	**5PY98**	1
	Type P	18-8 SS	**4EZU9**	1
	Type P	Steel	**4EZY5**	5
	Type S	18-8 SS	**4FAC5**	1
	Type S	Steel	**4FAH6**	10
	Wing	Iron	**4EZR3**	1
2"	Type P	18-8 SS	**4EZV1**	1
	Type P	Steel	**4EZY6**	5
	Type S	Steel	**4FAH7**	10
	Wing	Iron	**4EZR4**	1
½-13 Thread				
1¾"	Quarter-Turn	Steel	**5RA10**	1



Metric Cheese Head Machine Screws

- Phillips drive

Meet DIN 7985 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
M2-0.40mm Thread			
6mm	A4 SS	**31JR95**	50
8mm	A4 SS	**31JR96**	50
10mm	A4 SS	**31JR97**	50
M2.5-0.45mm Thread			
6mm	A4 SS	**31JR98**	50
8mm	A4 SS	**31JR99**	50
10mm	A4 SS	**31JT01**	50
12mm	A4 SS	**31JT02**	50
M3-0.50mm Thread			
4mm	A4 SS	**31JT03**	50
5mm	A4 SS	**31JT04**	50
6mm	A4 SS	**31JT05**	50
8mm	A4 SS	**31JT06**	50
10mm	A4 SS	**31JT07**	50
12mm	A4 SS	**31JT08**	50
16mm	A4 SS	**31JT09**	50
20mm	A4 SS	**31JT10**	50

Length	Material	Item No.	Pkg. Qty.
M4-0.70mm Thread			
8mm	A4 SS	**31JT11**	50
12mm	A4 SS	**31JT12**	50
50mm	A2 SS	**31KH93**	100
60mm	A2 SS	**31JR70**	50
M5-0.80mm Thread			
12mm	A4 SS	**31KJ15**	25
16mm	A4 SS	**31KJ16**	25
35mm	A2 SS	**31KH94**	100
45mm	A2 SS	**31KH95**	50
	Steel	**31KH74**	50
50mm	A2 SS	**31KH96**	50
	Steel	**31JP78**	50
M6-1.00mm Thread			
40mm	Steel	**31JP79**	50

Length	Material	Item No.	Pkg. Qty.
45mm	A2 SS	**31KH97**	50
	Steel	**31JP80**	50
50mm	A2 SS	**31KH98**	50
M8-1.25mm Thread			
12mm	Steel	**31KH75**	50
16mm	A2 SS	**31KH99**	50
35mm	A2 SS	**31KJ01**	25
	Steel	**31KH76**	25
40mm	A2 SS	**31KJ02**	25
45mm	Steel	**31KH77**	25
50mm	A2 SS	**31KJ03**	25
	Steel	**31KH78**	25
60mm	A2 SS	**31JR71**	10
	Steel	**31KH79**	10
M10-1.50mm Thread			
25mm	Steel	**31KH80**	25
30mm	Steel	**31KH81**	25
50mm	Steel	**31JP81**	10
60mm	Steel	**31JP82**	10



Button-Head, Hex Socket Drive



Flat-Head, Hex Socket Drive

18-8 Stainless Steel Architectural Sex Bolts

- Tensile strength: 80,000 psi

Fasten through hollow or solid materials. For applications that require a decorative appearance.

Barrel Length	Barrel Thread Depth	Drive Size	Head Style	Item No.
#10-24 Thread Size, ¼" Barrel Dia.				
⅜"	3/16"	9/32"	Flat	1JYK9
½"	3/16"	9/32"	Button	1JYJ8
¾"	⅜"	9/32"	Button	1JYJ9
1"	⅜"	9/32"	Button	1JYK1
1¼"	⅜"	9/32"	Button	1JYK2
#10-24 Thread Size, 5/16" Barrel Dia.				
½"	5/16"	½"	Hex	1JYN2
¾"	⅜"	½"	Hex	1JYN3
1"	⅜"	½"	Hex	1JYN4
¼"-20 Thread Size, ⅜" Barrel Dia.				
½"	3/16"	7/32"	Flat	1JYL5
	5/16"	⅜"	Hex	1JYN5
	⅜"	7/32"	Button	1JYK3
¾"	⅜"	7/32"	Flat	1JYL6
	⅜"	7/32"	Button	1JYK4
	⅜"	⅜"	Hex	1JYN6
1"	⅜"	⅜"	Hex	1JYN7
	⅜"	7/32"	Flat	1JYL7
	⅜"	7/32"	Button	1JYK5

Barrel Length	Barrel Thread Depth	Drive Size	Head Style	Item No.
⅜"-16 Thread Size, ½" Barrel Dia.				
½"	3/16"	5/16"	Flat	1JYL8
	5/16"	¾"	Hex	1JYN8
	⅜"	5/16"	Button	1JYK6
¾"	⅜"	¾"	Hex	1JYN9
	⅜"	5/16"	Button	1JYK7
	⅜"	5/16"	Flat	1JYL9
1"	⅜"	¾"	Hex	1JYP1
	⅜"	5/16"	Button	1JYK8
1½"	½"	5/16"	Flat	1JYN1
	⅜"	5/16"	Button	20X885
2¾"	½"	5/16"	Flat	20X919
½"-13 Thread Size, ⅝" Barrel Dia.				
¼"	¼"	⅜"	Flat	20X920
1"	5/16"	⅜"	Button	20X892
1¼"	¾"	⅜"	Flat	20X923
⅝"-11 Thread Size, ¾" Barrel Dia.				
1"	¾"	⅜"	Button	20X901
2"	¾"	⅜"	Button	20X904
⅝"-11 Thread Size, ⅞" Barrel Dia.				
3"	¾"	½"	Button	20X914



18-8 Stainless Steel 1-Way Partition Bolts with Shoulder Screws

- Tensile strength: 80,000 psi

Standard replacement hardware for bathroom stall partitions.

Barrel Length	Barrel Thread Depth	Grip Range	Screw Thread Length	Screw Shoulder Length	Screw Head Height	Item No.	Pkg. Qty.
#10-24 Thread Size, ¼" Barrel Dia.							
⅜"	¼"	½"	¼"	⅛"	7/64"	5MB83	10
½"	½"	¾"	½"	¼"	7/64"	5MB84	10
¾"	½"	1"	½"	¼"	7/64"	5MB85	10
1"	½"	1¼"	½"	¼"	7/64"	5MB86	10



Binding Posts with Slotted Screws

Barrel Length	Barrel Thread Depth	Screw Thread Length	Item No.
#8-32 Thread Size, 13/64" Barrel Dia.			
Aluminum			
⅛"	⅛"	3/16"	5MA53 *
3/16"	3/16"	3/16"	5MA54 *
¼"	3/16"	3/16"	5MA55
⅜"	¼"	¼"	5MA56
½"	⅜"	¼"	5MA57
⅝"	⅜"	¼"	5MA58
¾"	⅜"	¼"	5MA59
⅞"	⅜"	¼"	5MA60
1"	⅜"	¼"	5MA61
1¼"	⅜"	¼"	5MA62
1½"	⅜"	¼"	5MA63
1¾"	⅜"	¼"	5MA64
2"	⅜"	¼"	5MA65
2¼"	⅜"	¼"	5MA66
2½"	⅜"	¼"	5MA67
2¾"	⅜"	¼"	5MA68
3"	⅜"	¼"	5MA69
3½"	⅜"	¼"	5MA70
4"	⅜"	¼"	5MA71
4½"	⅜"	¼"	5MA72
5"	⅜"	¼"	5MA73
6"	⅜"	¼"	5MA74

*Fully threaded.

- Tensile strength: 80,000 psi (18-8 stainless steel); 34,800 psi (aluminum)
- Rockwell hardness: B85 to B95 (18-8 stainless steel); B38 (aluminum)

Note: Black anodized, brass, and black or white plastic binding posts with slotted screws are also available; on Grainger.com®, search for "plastic binding posts with slotted screws."

Barrel Length	Barrel Thread Depth	Screw Thread Length	Item No.
18-8 Stainless Steel			
⅛"	⅛"	3/16"	5MA84 *
3/16"	3/16"	3/16"	5MA85 *
¼"	¼"	¼"	5MA86
⅜"	¼"	⅜"	5MA87
½"	5/16"	⅜"	5MA88
⅝"	⅜"	⅜"	5MA89
¾"	⅜"	⅜"	5MA90
1"	⅜"	⅜"	5MA91
1¼"	⅜"	⅜"	5MA92
1½"	⅜"	⅜"	5MA93
1¾"	⅜"	⅜"	5MA94



Truss Head Architectural Sex Bolts

Feature unslotted truss heads and include an 82° Phillips flat head screw.

Barrel Length	Barrel Thread Depth	Screw Thread Length	Finish	Item No.
Steel				
¼"-20 Thread Size, ⅜" Barrel Dia.				
1 3/16"	1"	1½"	Chrome	5MB80
1 3/16"	1"	1"	Zinc	5MB82
1 3/16"	1"	1½"	Brass	5MB81
316 Stainless Steel				
#8-32 Thread Size, ¼" Barrel Dia.				
1 3/16"	⅝"	¾"	—	2JGR3
1 3/16"	⅝"	¾"	—	2JGR4
2"	⅝"	¾"	—	2JGR5
3"	⅝"	¾"	—	2JGR6
#10-32 Thread Size, 5/16" Barrel Dia.				
1 3/16"	¾"	1"	—	2JGR7
1 3/16"	¾"	1"	—	2JGR8
2"	¾"	1"	—	2JGR9
¼"-20 Thread Size, ⅜" Barrel Dia.				
¾"	½"	½"	—	2JGT2
1"	⅝"	½"	—	2JGT3
1 3/16"	¾"	1½"	—	2JGT4
1 3/16"	¾"	1½"	—	2JGT5
2 1/16"	¾"	1½"	—	2JGT6
3"	¾"	1½"	—	2JGT7

Barrel Length	Barrel Thread Depth	Screw Thread Length	Finish	Item No.
18-8 Stainless Steel				
#8-32 Thread Size, ¼" Barrel Dia.				
1 3/16"	⅝"	⅞"	Plain	5MB22
1 3/16"	⅝"	⅞"	Plain	5MB23
2"	⅝"	⅞"	Plain	5MB24
#10-32 Thread Size, 5/16" Barrel Dia.				
1 3/16"	¾"	1"	Plain	5MB26
1 3/16"	¾"	1"	Plain	5MB27
2"	¾"	1"	Plain	5MB28
3"	¾"	1"	Plain	5MB29
#12-24 Thread Size, 5/16" Barrel Dia.				
1 3/16"	¾"	1"	Plain	5MB30
1 3/16"	¾"	1"	Plain	5MB31
¼"-20 Thread Size, ⅜" Barrel Dia.				
1 3/16"	¾"	1"	Plain	5MB33
2 1/16"	¾"	1"	Plain	5MB34
3"	¾"	1½"	Plain	5MB35
5/16"-18 Thread Size, ½" Barrel Dia.				
2 1/16"	¾"	1½"	Plain	5MB36
3"	¾"	1½"	Plain	5MB37

Barrel Screws and Bolts

- Truss head
- Tensile strength: 80,000 psi (18-8 stainless steel); 75,000 psi (316 stainless steel); 60,000 psi (zinc-plated steel)

Note: Slotted barrel bolts and screws are available on Grainger®.com; search for "slotted barrel bolts."



Combination Drive Barrel Bolt



6-Lobe with Pin Drive Barrel Bolt



Combination Drive Screw



6-Lobe with Pin Drive Screw

Thread Size	Thread Length	Drive Size	Item No.	Pkg. Qty.
Binding Barrel Bolt Screws				
18-8 Stainless Steel, Combination Drive				
10-24	5/16"	—	5MA37	5
¼-20	5/16"	—	5MA36	5
18-8 Stainless Steel, 6-Lobe with Pin Drive				
10-24	¼"	T20	5MA38	1
	½"	T20	5MA39	1
	1"	T20	5MA40	1
¼-20	¼"	T27	5MA41	1
	⅜"	T27	5MA42	1
	½"	T27	5MA43	1
316 Stainless Steel, Combination Drive				
6-32	5/16"	—	2JGL3	5
8-32	5/16"	—	2JGL4	5
10-24	5/16"	—	2JGL5	5
¼-20	5/16"	—	2JGL6	5
5/16-18	5/16"	—	2JGL7	5
Steel, Zinc Plated, Combination Drive				
10-24	5/16"	—	5MA34	25
¼-20	5/16"	—	5MA35	25

Thread Size	Barrel Dia.	Barrel Length	Barrel Thread Depth	Item No.	Pkg. Qty.
Barrel Bolts					
18-8 Stainless Steel, Combination Drive					
		⅜"	5/16"	5LY98	5
		½"	⅜"	5LY99	5
		⅝"	⅜"	5MA10	5
#10-24	¼"	¾"	⅜"	5MA11	5
		1"	⅜"	5MA12	5
		1¼"	⅜"	5MA13	5
		1½"	⅜"	5MA14	5
		2"	⅜"	5MA15	5
		⅜"	19/64"	5MA16	5
		½"	⅜"	5MA17	5
¼"-20	5/16"	⅝"	⅜"	5MA18	5
		¾"	⅜"	5MA19	5
		⅞"	⅜"	5MA20	5
		1"	⅜"	5MA21	5
18-8 Stainless Steel, 6-Lobe with Pin Drive (T20)					
		⅜"	¼"	5MA22	1
		½"	¼"	5MA23	1
		⅝"	¼"	5MA24	1
#10-24	¼"	¾"	⅜"	5MA25	1
		1"	⅜"	5MA26	1
		1¼"	⅜"	5MA27	1
		1½"	⅜"	5MA28	1

*Fully Threaded.

Thread Size	Barrel Dia.	Barrel Length	Barrel Thread Depth	Item No.	Pkg. Qty.
18-8 Stainless Steel, 6-Lobe with Pin Drive (T27)					
		½"	¼"	5MA29	1
¼"-20	5/16"	¾"	⅜"	5MA30	1
		1"	⅜"	5MA31	1
316 Stainless Steel, Combination Drive					
		⅜"	19/64"	2JGL8	5
#6-32	3/16"	½"	⅜"	2JGL9	5
		⅝"	⅜"	2JGN1	5
		¼"	¼"	2JGN2 *	5
		⅜"	19/64"	2JGN3	5
#8-32	13/64"	½"	⅜"	2JGN4	5
		⅝"	⅜"	2JGN5	5
		¾"	⅜"	2JGN6	5
		1"	⅜"	2JGN7	5
		¼"	¼"	2JGN8 *	5
		⅜"	5/16"	2JGN9	5
#10-24	¼"	½"	⅜"	2JGP1	5
		¾"	⅜"	2JGP2	5
		1"	⅜"	2JGP3	5
		⅜"	19/64"	2JGP4	5
¼"-20	5/16"	½"	⅜"	2JGP5	5
		¾"	⅜"	2JGP6	5
		1"	⅜"	2JGP7	5
		⅜"	⅜"	2JGP8	5
		½"	⅜"	2JGP9	5
5/16"-18	⅜"	¾"	½"	2JGR1	5
		1"	½"	2JGR2	5


Pin-in Hex


Spanner Drive


One-Way Drive


Tri-Groove Drive

Tamper-Resistant Machine Screws

For use in permanent applications.

Dia./ Thread Size	L	Driver Size	Material	Item No.	Pkg. Qty.
Button Head Pin-In Hex Drive					
#6-32	3/8"	1/8"	18-8 SS Plain	6LE66	25
	3/8"	1/8"	Steel Black	6LE99	50
	1/2"	1/8"	18-8 SS Plain	6LE67	25
	1/2"	1/8"	Steel Black	6LU10	25
	3/4"	1/8"	18-8 SS Plain	6LE68	25
#8-32	3/8"	5/32"	Steel Black	6LU11	50
	1/2"	5/32"	18-8 SS Plain	6LE69	25
	1/2"	5/32"	Steel Black	6LU12	50
	3/4"	5/32"	18-8 SS Plain	6LE70	25
	3/4"	5/32"	Steel Black	6LU13	50
	1"	5/32"	18-8 SS Plain	6LE71	25
	1"	5/32"	Steel Black	6LU14	50
	1 1/2"	5/32"	18-8 SS Plain	6LE72	25
#10-24	1/4"	5/32"	18-8 SS Plain	6LE73	25
	3/8"	5/32"	18-8 SS Plain	6LE74	25
	3/8"	5/32"	Steel Black	6LU15	50
	1/2"	5/32"	18-8 SS Plain	6LE75	25
	1/2"	5/32"	Steel Black	6LU16	50
	5/8"	5/32"	Steel Black	6LU17	50
	3/4"	5/32"	18-8 SS Plain	6LE76	25
	3/4"	5/32"	Steel Black	6LU18	25
	1"	5/32"	18-8 SS Plain	6LE77	25
	1"	5/32"	Steel Black	6LU19	25
#10-32	1/4"	5/32"	18-8 SS Plain	6LE78	25
	3/8"	5/32"	18-8 SS Plain	6LE79	25
	1/2"	5/32"	18-8 SS Plain	6LE80	25
	1/2"	5/32"	Steel Black	6LU20	50
	3/4"	5/32"	18-8 SS Plain	6LE81	25
	3/4"	5/32"	Steel Black	6LU21	25
	1"	5/32"	18-8 SS Plain	6LE82	25
	1"	5/32"	Steel Black	6LU22	25
#12-24	1/2"	5/32"	Steel Black	6LU23	25
	3/8"	5/32"	Steel Black	6LU24	25
	1/2"	5/32"	18-8 SS Plain	6LE83	25
	1/2"	5/32"	Steel Black	6LU25	25
	5/8"	5/32"	18-8 SS Plain	6LE84	10
	5/8"	5/32"	Steel Black	6LU26	25
	3/4"	5/32"	18-8 SS Plain	6LE85	10
1/4"-20	3/4"	5/32"	Steel Black	6LU27	25
	1"	5/32"	18-8 SS Plain	6LE86	10
	1"	5/32"	Steel Black	6LU28	25
	1 1/4"	5/32"	18-8 SS Plain	6LE87	10
	1 1/2"	5/32"	18-8 SS Plain	6LE88	10
	1 1/2"	5/32"	Steel Black	6LU29	25
	2"	5/32"	18-8 SS Plain	6LE89	10
5/16"-18	3/4"	3/16"	18-8 SS Plain	6LE90	10
	3/4"	3/16"	Steel Black	6LU30	10
	1"	3/16"	18-8 SS Plain	6LE91	10
	1"	3/16"	Steel Black	6LU31	10
	1 1/4"	3/16"	18-8 SS Plain	6LE92	5
	1 1/2"	3/16"	18-8 SS Plain	6LE93	5
	2"	3/16"	18-8 SS Plain	6LE94	5
3/8"-16	3/4"	7/32"	18-8 SS Plain	6LE95	5
	3/4"	7/32"	Steel Black	6LU32	10
	1"	7/32"	18-8 SS Plain	6LE96	5
	1"	7/32"	Steel Black	6LU33	10
	1 1/4"	7/32"	18-8 SS Plain	6LE97	5
	1 1/2"	7/32"	18-8 SS Plain	6LE98	5
Button Head Torx Drive					
#6-32	3/8"	T10	18-8 SS Plain	6LE21	25
	3/8"	T10	Steel Black	6LE43	50
	1/2"	T10	18-8 SS Plain	6LE22	25
	1/2"	T10	Steel Black	6LE44	25
	3/4"	T10	18-8 SS Plain	6LE23	25
	3/4"	T10	Steel Black	6LE45	25
	1"	T10	18-8 SS Plain	6LE24	25
	1"	T10	Steel Black	6LE46	25
#8-32	3/8"	T15	18-8 SS Plain	6LE25	25
	3/8"	T15	Steel Black	6LE47	50
	1/2"	T15	18-8 SS Plain	6LE26	25
	1/2"	T15	Steel Black	6LE48	25
	3/4"	T15	18-8 SS Plain	6LE27	25
	3/4"	T15	Steel Black	6LE49	25
	1"	T15	18-8 SS Plain	6LE28	25
	1"	T15	Steel Black	6LE50	25
	1 1/2"	T15	Steel Black	6LE51	25
#10-24	3/8"	T25	18-8 SS Plain	5JE62	50
	1/2"	T25	18-8 SS Plain	6LE29	25
	1/2"	T25	Steel Black	6LE52	50
	1/2"	T25	18-8 SS Plain	5JE63	50
	5/8"	T25	18-8 SS Plain	5JE64	50
	3/4"	T25	18-8 SS Plain	6LE30	25
	3/4"	T25	Steel Black	6LE53	25
	3/4"	T25	18-8 SS Plain	5JE65	50
	1"	T25	18-8 SS Plain	6LE31	25
	1"	T25	Steel Black	6LE54	25
	1"	T25	18-8 SS Plain	5JE66	50
	1 1/4"	T25	18-8 SS Plain	6LE32	10
	1 1/4"	T25	18-8 SS Plain	5JE67	50
	1 1/2"	T25	Steel Black	6LE55	25
	1 1/2"	T25	18-8 SS Plain	5JE68	50
#10-32	3/8"	T25	18-8 SS Plain	6LE33	25
	3/8"	T25	Steel Black	6LE56	25
	1/2"	T25	18-8 SS Plain	6LE34	25
	1/2"	T25	Steel Black	6LE57	25
	3/4"	T25	18-8 SS Plain	6LE35	25
	3/4"	T25	Steel Black	6LE58	25
	1"	T25	18-8 SS Plain	6LE36	25
	1"	T25	Steel Black	6LE59	25
	1 1/2"	T25	Steel Black	6LE60	25
1/4"-20	3/8"	T27	Steel Black	6LE61	25
	1/2"	T27	18-8 SS Plain	6LE37	10
	1/2"	T27	Steel Black	6LE62	25
	1/2"	T27	18-8 SS Plain	5JE69	25
	3/4"	T27	18-8 SS Plain	6LE38	10
	3/4"	T27	Steel Black	6LE63	25
	3/4"	T27	18-8 SS Plain	5JE70	25
	1"	T27	18-8 SS Plain	6LE39	10
	1"	T27	Steel Black	6LE64	25
	1"	T27	18-8 SS Plain	5JE71	25
	1 1/4"	T27	18-8 SS Plain	6LE40	10
	1 1/4"	T27	18-8 SS Plain	5JE72	25
	1 1/2"	T27	18-8 SS Plain	6LE41	10
	1 1/2"	T27	Steel Black	6LE65	25
	1 1/2"	T27	18-8 SS Plain	5JE73	25
	2"	T27	18-8 SS Plain	6LE42	10
	2"	T27	18-8 SS Plain	5JE74	25
Flat Head Spanner Drive					
#4-40	1/4"	#4	18-8 SS Plain	5JY28	50
	3/8"	#6	18-8 SS Plain	5JY31	50
#6-32	1/2"	#6	18-8 SS Plain	5JY32	50
	3/4"	#6	18-8 SS Plain	5JY33	50
	1"	#6	18-8 SS Plain	5JY34	50
	1 1/2"	#6	18-8 SS Plain	5JY35	50
	2"	#6	18-8 SS Plain	5JY36	25
#8-32	3/8"	#8	18-8 SS Plain	5JY37	50
	1/2"	#8	18-8 SS Plain	5JY38	25
	3/4"	#8	18-8 SS Plain	5JY39	25
	1"	#8	18-8 SS Plain	5JY40	25
	1 1/4"	#8	18-8 SS Plain	5JY41	25
	1 1/2"	#8	18-8 SS Plain	5JY42	25
	2"	#8	18-8 SS Plain	5JY43	25
#10-24	1/2"	#10	18-8 SS Plain	5JY44	25
	3/4"	#10	18-8 SS Plain	5JY45	25
	1"	#10	18-8 SS Plain	5JY46	25
	1 1/4"	#10	18-8 SS Plain	5JY47	50
	1 1/2"	#10	18-8 SS Plain	5JY48	50
	2"	#10	18-8 SS Plain	5JY49	25
#10-32	1/2"	#10	18-8 SS Plain	5JY50	25
	3/4"	#10	18-8 SS Plain	5JY51	25
	1"	#10	18-8 SS Plain	5JY52	25
	1 1/4"	#10	18-8 SS Plain	5JY53	25
	1 1/2"	#10	18-8 SS Plain	5JY54	25
	2"	#10	18-8 SS Plain	5JY55	25
	2 1/2"	#10	18-8 SS Plain	5JY56	25
#12-24	1/2"	#12	18-8 SS Plain	5JY57	25
	3/4"	#12	18-8 SS Plain	5JY58	25
1/4"-20	1/2"	#14	18-8 SS Plain	5JY59	25
	3/4"	#14	18-8 SS Plain	5JY60	25
	1"	#14	18-8 SS Plain	5JY61	25
	1 1/4"	#14	18-8 SS Plain	5JY62	25
	1 1/2"	#14	18-8 SS Plain	5JY63	25
	2"	#14	18-8 SS Plain	5JY64	25
	2 1/2"	#14	18-8 SS Plain	5JY65	25
Flat Head Torx Drive					
#6-32	3/8"	T15	18-8 SS Plain	5JE37	25
	1/2"	T10	18-8 SS Plain	5JE34	25
	3/4"	T10	18-8 SS Plain	5JE35	25
	1"	T10	18-8 SS Plain	5JE36	25
#8-32	3/8"	T20	18-8 SS Plain	5JE38	25
	1/2"	T20	18-8 SS Plain	5JE39	25
	3/4"	T20	18-8 SS Plain	5JE40	25
	1"	T20	18-8 SS Plain	5JE41	25
	1 1/4"	T20	18-8 SS Plain	5JE42	25
	1 1/2"	T20	18-8 SS Plain	5JE43	10
#10-24	3/8"	T25	18-8 SS Plain	5JE44	25
	1/2"	T25	18-8 SS Plain	5JE45	25
	5/8"	T25	18-8 SS Plain	5JE46	25
	3/4"	T25	18-8 SS Plain	5JE47	25
	1"	T25	18-8 SS Plain	5JE48	25
	1 1/4"	T25	18-8 SS Plain	5JE49	10
	1 1/2"	T25	18-8 SS Plain	5JE50	10
#10-32	3/8"	T25	18-8 SS Plain	5JE51	25
	1/2"	T25	18-8 SS Plain	5JE52	25
	3/4"	T25	18-8 SS Plain	5JE53	25
	1"	T25	18-8 SS Plain	5JE54	25
	1 1/4"	T25	18-8 SS Plain	5JE55	10
	1 1/2"	T25	18-8 SS Plain	5JE56	10
1/4"-20	3/4"	T30	18-8 SS Plain	5JE57	10
	1"	T30	18-8 SS Plain	5JE58	10
	1 1/4"	T30	18-8 SS Plain	5JE59	10
	1 1/2"	T30	18-8 SS Plain	5JE60	10
	2"	T30	18-8 SS Plain	5JE61	10
Pan Head Spanner Drive					
#4-40	3/8"	#4	18-8 SS Plain	5JB79	50
	1/2"	#4	18-8 SS Plain	5JB81	50
	1/4"	#6	18-8 SS Plain	5JB83	50
#6-32	3/8"	#6	18-8 SS Plain	5JB85	50
	1/2"	#6	18-8 SS Plain	5JB87	50
	3/4"	#6	18-8 SS Plain	5JB89	50
	1"	#6	18-8 SS Plain	5JU58	50
#8-32	3/8"	#8	18-8 SS Plain	5JU59	50
	1/2"	#8	18-8 SS Plain	5JU60	25
	3/4"	#8	18-8 SS Plain	5JU61	25
	1"	#8	18-8 SS Plain	5JU62	25
	1 1/4"	#8	18-8 SS Plain	5JU63	25
	1 1/2"	#8	18-8 SS Plain	5JU64	25
#10-24	1/2"	#10	18-8 SS Plain	5JU66	25
	3/4"	#10	18-8 SS Plain	5JU67	25
	1"	#10	18-8 SS Plain	5JU68	25
	1 1/2"	#10	18-8 SS Plain	5JU69	25
	2"	#10	18-8 SS Plain	5JU70	25
	4"	#10	18-8 SS Plain	5JU71	25
#10-32	3/8"	#10	18-8 SS Plain	5JU72	25
	1/2"	#10	18-8 SS Plain	5JU73	25
	3/4"	#10	18-8 SS Plain	5JU74	25
	1"	#10	18-8 SS Plain	5JU75	25
	1 1/2"	#10	18-8 SS Plain	5JU76	25
	2"	#10	18-8 SS Plain	5JU77	25
	4"	#10	18-8 SS Plain	5JU78	25
#12-24	3/4"	#12	18-8 SS Plain	5JU79	25
1/4"-20	3/8"	#14	18-8 SS Plain	5JU80	25
	1/2"	#14	18-8 SS Plain	5JU81	25
	3/4"	#14	18-8 SS Plain	5JU82	25
	1"	#14	18-8 SS Plain	5JU83	25
	1 1/2"	#14	18-8 SS Plain	5JU84	25
	2"	#14	18-8 SS Plain	5JU85	25
	3"	#14	18-8 SS Plain	5JU86	10
	4"	#14	18-8 SS Plain	5JU87	10
Pan Head Torx Drive					
#2-56	3/16"	T8	Steel Zinc	5JA79	100
	1/4"	T8	Steel Zinc	5JA80	100
	5/16"	T8	Steel Zinc	5JA81	100
	3/8"	T8	Steel Zinc	5JA82	100
#4-40	1/4"	T10	Steel Zinc	5JA83	100
	5/16"	T10	Steel Zinc	5JA84	100
	3/8"	T10	Steel Zinc	5JA85	100
	1/2"	T10	Steel Zinc	5JA87	100
#6-32	1/4"	T15	Steel Zinc	5JA89	100
	3/8"	T15	Steel Zinc	5JA91	100
	1/2"	T15	Steel Zinc	5JA93	100
	3/4"	T15	Steel Zinc	5JA95	100
#8-32	1/4"	T20	Steel Zinc	5JA97	100
	3/8"	T20	Steel Zinc	5JA99	100
	1/2"	T20	Steel Zinc	5JB11	100
	3/4"	T20	Steel Zinc	5JB13	100
#10-24	3/8"	T25	Steel Zinc	5JB15	100
	1/2"	T25	Steel Zinc	5JB17	100
	3/4"	T25	Steel Zinc	5JB19	100
	1"	T25	Steel Zinc	5JB21	100
#10-32	3/8"	T25	Steel Zinc	5JB23	100
	1/2"	T25	Steel Zinc	5JB25	100
	3/4"	T25	Steel Zinc	5JB27	100
	1"	T25	Steel Zinc	5JB29	100
Round Head One-Way Drive					
#6-32	3/4"	#6	18-8 SS Plain	5JY72	100
	1"	#6	Steel Zinc	5KA10	100
	1"	#6	18-8 SS Plain	5JY73	100
	1 1/2"	#6	18-8 SS Plain	5JY74	100
#8-32	1/4"	#8	18-8 SS Plain	5JY75	100
	1/2"	#8	Steel Zinc	5KA11	100
	1/2"	#8	18-8 SS Plain	5JY77	100
	3/4"	#8	Steel Zinc	5KA12	100
	3/4"	#8	18-8 SS Plain	5JY78	100
	1"	#8	Steel Zinc	5KA13	100
	1"	#8	18-8 SS Plain	5JY79	100
	1 1/2"	#8	Steel Zinc	5KA14	100
	1 1/2"	#10	18-8 SS Plain	5JY80	100
	1/2"	#10	Steel Zinc	5KA15	100
	1/2"	#10	18-8 SS Plain	5JY81	100
	3/4"	#10	18-8 SS Plain	5JY82	100
#10-24	1"	#10	18-8 SS Plain	5JY83	50
	1 1/4"	#10	18-8 SS Plain	5JY84	50
	1 1/2"	#10	Steel Zinc	5KA18	100
	1 1/2"	#10	18-8 SS Plain	5JY85	25
	1/2"	#10	Steel Zinc	5KA19	100
	1/2"	#10	18-8 SS Plain	5JY86	100
	3/4"	#10	18-8 SS Plain	5JY88	50
#10-32	1"	#10	18-8 SS Plain	5JY89	50
	1 1/4"	#10	18-8 SS Plain	5JY90	25
	1 1/2"	#10	18-8 SS Plain	5JY91	25
	1 1/2"	#10	Steel Zinc	5KA22	100
	1/2"	#14	Steel Zinc	5KA23	100
	1/2"	#14	18-8 SS Plain	5JY92	25
	3/4"	#14	18-8 SS Plain	5JY93	25
1/4"-20	1"	#14	Steel Zinc	5KA25	100
	1"	#14	18-8 SS Plain	5JY94	25
	1 1/2"	#14	Steel Zinc	5KA26	50
	1 1/2"	#14	18-8 SS Plain	5JY95	25
	2"	#14	18-8 SS Plain	5JY96	25
Round Head Tri-Groove Drive					
#8-32	3/8"	#6	Steel Zinc	5KA51	100
	1"	#6	Steel Zinc	5KA54	50
#10-24	1/2"	#10	Steel Zinc	5KA57	50
#10-32	1/2"	#10	Steel Zinc	5KA61	50
	1/2"	#10	Steel Zinc	5KA65	50
	3/4"	#10	Steel Zinc	5KA66	50
1/4"-20	1"	#10	Steel Zinc	5KA67	25
	1 1/2"	#10	Steel Zinc	5KA68	25
	2 1/2"	#10	Steel Zinc	5KA70	10
Truss Head Spanner Drive					
#8-32	3/4"	#8	18-8 SS Plain	5KA28	10
	1"	#8	18-8 SS Plain	5KA29	10
	1 1/2"	#8	18-8 SS Plain	5KA31	10
	2 1/2"	#8	18-8 SS Plain	5KA32	10
#10-24	1/2"	#10	18-8 SS Plain	5KA33	10
#10-32	3/4"	#10	18-8 SS Plain	5KA35	10
1/4"-20	1"	#14	18-8 SS Plain	5KA37	10
	3/4"	#14	18-8 SS Plain	5KA38	10
	1"	#14	18-8 SS Plain	5KA39	10
5/16"-18	1 1/4"	#14	18-8 SS Plain	5KA40	10
	1 1/2"	#14	18-8 SS Plain	5KA41	10
	2"	#14	18-8 SS Plain	5KA42	10
	1"	#14	18-8 SS Plain	5KA45	10
	1 1/2"	#14	18-8 SS Plain	5KA47	10
3/8"-16	2"	#14	18-8 SS Plain	5KA48	10
	2 1/2"	#14	18-8 SS Plain	5KA49	10
	3"	#14	18-8 SS Plain	5KA50	10

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!



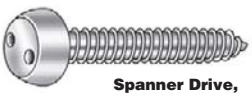
1-Way Drive Screw Removal Tool

Nickel-plated 1018 steel shaft. 7" overall length.

For Screw Size	Shank Length	Item No.
#6 and #8	3 1/2"	1ZLA3
#8 and #10	3 3/4"	1ZLA6
#12 and #14	4"	1ZLA8


One-Way Drive


Spanner Drive, Flat Head


Spanner Drive, Pan Head


Pin-In Hex Drive, Button Head


Pin-In Hex Drive, Flat Head


Pin-In Torx® Drive, Button Head


Pin-In Torx® Drive, Flat Head


Pin-In Torx® Drive, Self-Drilling, Flat Head


Pin-In Torx® Drive, Self-Drilling, Pan Head

Tamper-Resistant Sheet Metal Screws

Meet ANSI/ASME B18.6 standards.

Size	Length	Driver Size	Item No.	Pkg. Qty.
One-Way Drive, Round Head				
18-8 Stainless Steel				
#6	½"	#6	5JA34	100
	¾"	#6	5JA35	100
	1"	#6	5JA36	100
	1¼"	#6	5JA37	50
#8	½"	#8	5JA38	50
	¾"	#8	5JA39	50
	1"	#8	5JA40	50
	1¼"	#8	5JA41	50
	1½"	#8	5JA42	50
#10	½"	#10	5JA43	50
	¾"	#10	5JA44	50
	1"	#10	5JA45	50
	1½"	#10	5JA46	50
	2"	#10	5JA47	25
#12	½"	#12	5JA48	50
	¾"	#12	5JA49	50
	1"	#12	5JA50	50
	1¼"	#12	5JA51	25
	1½"	#12	5JA52	25
	2"	#12	5JA53	25
#14	½"	#14	5JA54	50
	¾"	#14	5JA55	25
	1¼"	#14	5JA57	25
	1½"	#14	5JA58	25
	2"	#14	5JA59	25
	3"	#14	5JA60	10
Steel, Zinc-Plated				
#6	⅜"	#6	5JA61	100
	½"	#6	5JA62	100
	¾"	#6	5JA63	100
	1"	#6	5JA64	100
#8	⅜"	#8	5JA65	100
	½"	#8	5JA66	100
	¾"	#8	5JA67	100
	1"	#8	5JA68	100
	1½"	#8	5JA69	50
#10	½"	#10	5JA70	100
	¾"	#10	5JA71	100
	1"	#10	5JA72	100
	1½"	#10	5JA73	100
#14	½"	#14	5JA74	50
	¾"	#14	5JA75	100
	1"	#14	5JA76	100
	1½"	#14	5JA77	50
	2"	#14	5JA78	25
Spanner Drive, Flat Head				
18-8 Stainless Steel				
#6	½"	#6	5KY11	25
	¾"	#6	5KY12	25
	1"	#6	5KY13	25
#8	½"	#6	5KY14	25
	¾"	#8	5KY15	25
	1"	#8	5KY16	25
	1¼"	#8	5KY17	25
	1½"	#8	5KY18	25
#10	½"	#10	5KY19	25
	¾"	#10	5KY20	25
	1"	#10	5KY21	25
	1½"	#10	5KY22	25
	2"	#10	5KY23	25
#12	1"	#12	5KY24	25
	1¼"	#12	5KY25	25
	1½"	#12	5KY26	25
	2"	#12	5KY27	10
Spanner Drive, Pan Head				
18-8 Stainless Steel				
#6	½"	#6	5HY93	25
	⅝"	#6	5HY94	25
	¾"	#6	5HY95	25
	1"	#6	5HY96	25
	1½"	#6	5HY97	25
#8	⅜"	#8	5HY98	25
	½"	#8	5HY99	25
	⅝"	#8	5JA10	25
	¾"	#8	5JA11	25
	1"	#8	5JA12	25
	1½"	#8	5JA13	25
	2"	#8	5JA14	25
#10	½"	#10	5JA15	25
	⅝"	#10	5JA16	25
	¾"	#10	5JA17	25
	1"	#10	5JA18	25
	1¼"	#10	5JA19	25
	1½"	#10	5JA20	25
	2"	#10	5JA21	10
#12	1"	#12	5JA22	25
	1½"	#12	5JA23	25
	2"	#12	5JA24	25
#14	¾"	#14	5JA25	25
	1"	#14	5JA26	25
	2"	#14	5JA27	25
Pin-In Hex Drive, Button Head				
18-8 Stainless Steel				
#6	½"	⅛"	5KE94	25
	¾"	⅛"	5KE96	25
	1"	⅛"	5KE98	25
#8	½"	5/32"	5KU10	25
	⅝"	5/32"	5KU12	25
	¾"	5/32"	5KU14	25
	1"	5/32"	5KU16	25
	1¼"	5/32"	5KU18	25
	1½"	5/32"	5KU20	25
#10	½"	5/32"	5KU22	25
	¾"	5/32"	5KU24	25
	1"	5/32"	5KU26	25
	1¼"	5/32"	5KU28	25
	1½"	5/32"	5KU30	25
	2"	5/32"	5KU32	25
#14	¾"	5/32"	5KU34	25
	1"	5/32"	5KU36	25
	1¼"	5/32"	5KU38	25
	1½"	5/32"	5KU40	25
Steel, Black Oxide Finish				
#6	½"	⅛"	5KU42	50
	¾"	⅛"	5KU44	50
	1"	⅛"	5KU46	25
#8	½"	5/32"	5KU48	50
	⅝"	5/32"	5KU50	25
	¾"	5/32"	5KU52	25
	1"	5/32"	5KU54	25
	1¼"	5/32"	5KU56	25
	1½"	5/32"	5KU57	25
#10	½"	5/32"	5KU58	50
	¾"	5/32"	5KU59	50
	1"	5/32"	5KU60	25
	1¼"	5/32"	5KU61	25
	1½"	5/32"	5KU62	25
	2"	5/32"	5KU63	25
#14	¾"	5/32"	5KU64	25
	1"	5/32"	5KU65	25
	1¼"	5/32"	5KU66	25
	1½"	5/32"	5KU67	25
Pin-In Hex Drive, Flat Head				
18-8 Stainless Steel				
#6	½"	⅛"	5KY28	25
	¾"	⅛"	5KY29	25
	1"	⅛"	5KY30	25
#8	½"	5/32"	5KY31	25
	¾"	5/32"	5KY32	25
	1"	5/32"	5KY33	25
#10	½"	5/32"	5KY34	25
	¾"	5/32"	5KY35	25
	1"	5/32"	5KY36	25
	1¼"	5/32"	5KY37	25
	1½"	5/32"	5KY38	25
#14	¾"	5/32"	5KY39	25
	1"	5/32"	5KY40	25
	1¼"	5/32"	5KY41	25
	1½"	5/32"	5KY42	25
Pin-In Torx® Drive, Button Head				
18-8 Stainless Steel				
#6	½"	T10	5KU68	25
	¾"	T10	5KU69	25
	1"	T10	5KU70	25
	1½"	T10	5KU71	25
#8	½"	T15	5KU72	25
	¾"	T15	5KU73	25
	1"	T15	5KU74	25
	1¼"	T15	5KU75	25
	1½"	T15	5KU76	25
#10	½"	T25	5KU77	25
	¾"	T25	5KU78	25
	1"	T25	5KU79	25
	1¼"	T25	5KU80	25
	1½"	T25	5KU81	10
#14	½"	T27	5KU82	25
	¾"	T27	5KU83	25
	1"	T27	5KU84	10
	1¼"	T27	5KU85	10
	1½"	T27	5KU86	10
Steel, Black Oxide Finish				
#6	½"	T10	5KU87	25
	¾"	T10	5KU88	25
	1"	T10	5KU89	25
#8	½"	T15	5KU90	25
	¾"	T15	5KU91	25
	1"	T15	5KU92	25
#10	½"	T25	5KU93	25
	¾"	T25	5KU94	25
	1"	T25	5KU95	25
	1¼"	T25	5KU96	25
	1½"	T25	5KU97	25
#14	½"	T27	5KU98	25
	¾"	T27	5KU99	25
	1"	T27	5KY10	25
Pin-In Torx® Drive, Flat Head				
18-8 Stainless Steel				
#6	½"	T15	5KY43	25
	¾"	T15	5KY44	25
	1"	T15	5KY45	25
#8	½"	T20	5KY46	25
	¾"	T20	5KY47	25
	1"	T20	5KY48	25
	1¼"	T20	5KY49	25
#10	½"	T25	5KY50	25
	¾"	T25	5KY51	25
	1"	T25	5KY52	25
	1½"	T25	5KY53	10
#14	¾"	T30	5KY54	10
	1"	T30	5KY55	10
	1¼"	T30	5KY56	10
Pin-In Torx Drive, Self-Drilling®, Flat Head				
Steel, Zinc Chromate Finish				
#8-18	1¼"	T15	5JU54	50
	¾"	T25	5JU55	50
#10-16	1½"	T20	5JU56	50
	2"	T20	5JU57	50
Pin-In Torx Drive, Self-Drilling®, Pan Head				
410 Stainless Steel				
#8-18	½"	T20	5JU45	25
	¾"	T20	5JU46	25
	1"	T20	5JU47	25
	1¼"	T20	5JU48	10
#10-16	½"	T25	5JU49	25
	¾"	T25	5JU50	25
	1"	T25	5JU51	25
	1¼"	T25	5JU52	10
	1½"	T25	5JU53	10
Torxplus® Drive, Pan Head				
18-8 Stainless Steel				
#0-42	⅜"	IP5	5JE75	50
#2-28	¼"	IP7	5JE76	50
	⅜"	IP7	5JE77	50
#4-20	¼"	IP10	5JE80	50
	⅜"	IP10	5JE81	50
	¾"	IP10	5JE83	50
#6-19	¼"	IP15	5JE84	50
	⅜"	IP15	5JE85	50
	½"	IP15	5JE86	50
Case Hardened Steel				
#0-42	3/16"	IP5	5JE90	50
	⅜"	IP5	5JE92	50
#4-20	¼"	IP10	5JE96	100
	¾"	IP10	5JE99	100
#8-16	¼"	IP20	5JU13	100
	½"	IP20	5JU14	100
	¾"	IP20	5JU15	100
	1"	IP20	5JU16	100
#10-14	1"	IP25	5JU19	50
	1¼"	IP25	5JU20	50
	¾"	IP30	5JU23	50
#1/4-10	1"	IP30	5JU24	50
	1¼"	IP30	5JU25	50

Self-Tapping Sheet Metal Screws

- Hardened steel
- Hex Washer Head have a ¼" driver size

1-pc., 1-side-installation fasteners penetrate metal and tap their own mating threads to eliminate the need for prepunched holes.

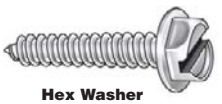
Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Size	Length	Item No.	Pkg. Qty.
Hex Washer Head, Zinc-Plated, Slotted Drive			
#6	⅜"	1MB43	100
#7	½"	1MB44	100
#8	½"	1MB45	100
	¾"	1MB46	100
#10	½"	1MB47	100
	¾"	1MB48	100


Hex Washer Head w/ Neoprene Washer



82° Flat Head, Phillips Drive



Hex Washer Head



Pan Head, Phillips Drive

Sheet Metal Screws

All meet ANSI/ASME B18.6 standards, except Nos. 4HJX1, 4HJX5, 4HJX7, and 4HJX9.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Size	L	Driver Size	Item No.	Pkg. Qty.
Flat Head Phillips Drive				
Steel				
#4	¼	#1	31JM56	100
	⅜	#1	1MA77	100
	½	#1	1MA79	100
	⅝	#1	1MA78	100
	¾	#1	1MA80	100
	1	#1	1MA81	100
#6	¼	#2	1MA82	100
	⅜	#2	1MA83	100
	½	#2	1MA84	100
	⅝	#2	1MA85	100
	¾	#2	1MA86	100
	⅞	#2	31JM57	100
	1	#2	1MA87	100
	1¼	#2	1MA89	100
	1½	#2	1MA88	100
	2	#2	31JM58	100
#8	⅜	#2	1MA90	100
	½	#2	1MA91	100
	⅝	#2	1MA92	100
	¾	#2	1MA93	100
	⅞	#2	31JM59	100
	1	#2	1MA94	100
	1¼	#2	1MA95	100
	1½	#2	1MA96	100
	1¾	#2	1MA97	100
	2	#2	1MA98	100
	2½	#2	1MA99	100
	3	#2	1MB10	100
#10	⅜	#2	31JM60	100
	½	#2	1MB11	100
	⅝	#2	31JM61	100
	¾	#2	1MB13	100
	⅞	#2	31JM62	100
	1	#2	1MB14	100
	1¼	#2	1MB15	100
	1½	#2	1MB16	100
	1¾	#2	1MB17	100
	2	#2	1MB18	100
	2½	#2	1MB19	100
	3	#2	1MB20	100
#12	½	#3	31JM63	100
	⅝	#3	31JM64	100
	¾	#3	1MB22	100
	⅞	#3	31JM65	100
	1	#3	1MB23	100
	1¼	#3	1MB24	100
	1½	#3	1MB25	100
	1¾	#3	1MB26	100
	2	#3	1MB27	100
	2½	#3	1MB28	100
	3	#3	1MB29	100
#14	¾	#3	1MB30	100
	1	#3	1MB31	100
	1¼	#3	1MB32	100
	1½	#3	1MB33	100
	1¾	#3	1MB34	100
	2	#3	1MB35	100
	2½	#3	1MB36	100
	3	#3	1MB37	100
18-8 Stainless Steel				
#4	⅜	#1	1VU96	100
	½	#1	1VU97	100
	⅝	#1	1VU98	100
	¾	#1	1VU99	100
	1	#1	31JN39	100
#6	⅜	#2	1WA11	100
	½	#2	1WA12	100
	⅝	#2	1WA13	100
	¾	#2	1WA14	100
	1	#2	1WA15	100
	1¼	#2	31JN40	100
	1½	#2	1WA17	100
	2	#2	1WA18	100
#8	½	#2	1WA19	100
	⅝	#2	1WA20	100
	¾	#2	1WA21	100
	⅞	#2	1WA22	100
	1	#2	1WA23	100
	1¼	#2	1WA24	100
	1½	#2	1WA25	100
	1¾	#2	1WA26	100
	2	#2	1WA27	100
	2½	#2	31JN41	100
	3	#2	1WA29	100
	½	#2	2WE42	100
	⅝	#2	1WA30	100
	¾	#2	1WA31	100
	1	#2	1WA32	100
#10	1¼	#2	1WA33	100
	1½	#2	1WA34	100
	1¾	#2	1WA35	100
	2	#2	1WA36	100
	2½	#2	31JN42	100
	3	#2	31JN43	100
	¾	#3	1WA40	100
	1	#3	1WA41	100
	1¼	#3	1WA42	100
	1½	#3	1WA43	100
#12	1¾	#3	1WA44	100
	2	#3	1WA45	100
	2½	#3	31JN44	100
	3	#3	31JN45	100
	3½	#3	1CJG6	25
	¾	#3	1WA48	100
	1	#3	1WA49	100
	1¼	#3	31JN46	100
#14	1½	#3	31JN47	100
	1¾	#3	1WA52	50
	2	#3	31JN48	100
	2½	#3	31JN49	100
	3	#3	31JN50	100
Hex Washer Head Slotted/Hex Drive				
Steel				
#6	½	¼"	1MB55	100
	¾	¼"	1MB57	100
	1	¼"	1MB58	100
	1¼	¼"	1MB59	100
	1½	¼"	1MB60	100
#7	½	¼"	1MB61	100
#8	⅜	¼"	1MB62	100
	⅝	¼"	1MB64	100
	1	¼"	1MB66	100
	1¼	¼"	1MB67	100
	2	¼"	1MB69	100
	2½	¼"	1MB70	100
#10	⅜	5/16"	1MB71	100
	⅝	5/16"	1MB73	100
	1¾	5/16"	1MB78	100
	2½	5/16"	1MB80	100
#12	3	5/16"	1MB81	100
	½	5/16"	1MB82	100
	⅜	5/16"	1MB83	100
	1¼	5/16"	1MB86	100
	2½	5/16"	1MB89	100
	3	5/16"	1MB90	100
#14	½	⅜"	1MB91	100
	⅝	⅜"	1MB92	100
	¾	⅜"	1NB86	385
	1	⅜"	1MB94	100
	1¼	⅜"	1MB95	100
¼"	2½	⅜"	1MB98	100
	3	⅜"	1MB99	100
	¾	9/16"	1ME14	100
⅜"	1	9/16"	1ME15	100
	1¼	9/16"	1VHE9	100
	1½	9/16"	1ME16	100
5/16"	1½	½"	1ME12	100
	2	½"	1ME13	100
18-8 Stainless Steel				
#8	1½	—	1WE51	100
	2	—	1WE53	100
#10	⅝	—	1WE57	100
	1¼	5/16"	1WE63	100
#12	¾	5/16"	1WE76	100
	1	—	1WE78	100
K-Lath Head Phillips Drive				
Steel				
#6	½	#2	4HJX1	200
	¾	#2	4HJX5	200
	1	#2	4HJX7	200
	1¼	#2	4HJX9	100
#8	⅜	#2	31JM23	100
	½	#2	31JM24	100
	¾	#2	31JM25	100
	½	#2	31JM26	100
	9/16	#2	31JM27	100
	¾	#2	31JM28	100
	1	#2	31JM29	100
	1¼	#2	31JM30	100
	1½	#2	31JM31	100
	1⅝	#2	31JM32	100
	2	#2	31JM33	100
Oval Countersunk Head Phillips Drive				
18-8 Stainless Steel				
#4	¼	#1	31JN51	100
	½	#1	31JN52	100
	1	#1	31JN53	100
#6	⅝	#2	31JN54	100
	¾	#2	31JN55	100
Oval Head Phillips Drive				
Steel				
#6	½	#2	2XA63	100
	⅝	#2	2XA67	100
	¾	#2	2XA65	100
	1	#2	2XA69	100
#8	½	#2	2XA70	100
	¾	#2	2XA71	100
	1	#2	2XA72	100
	1½	#2	2XA73	100
#10	¾	#2	2XA74	100
	1	#2	2XA75	100
	1½	#2	2XA76	100
18-8 Stainless Steel				
#6	⅜	#2	1WB39	100
	⅝	#2	1WB43	100
	¾	#2	1WB45	100
	1¼	#2	1WB49	100
	1½	#2	1WB51	100
#8	⅜	#2	1WB53	100
	½	#2	1WB55	100
	⅝	#2	1WB57	100
	¾	#2	1WB59	100
	1	#2	1WB61	100
#10	1¼	#2	1WB63	100
	1½	#2	1WB65	100
	1¾	#2	1WB67	100
	2	#2	1WB69	100
	2½	#2	1WB71	100
	3	#2	1WB73	100
#12	⅜	#2	1WB75	100
	½	#2	1WB77	100
	⅝	#2	1WB79	100
	¾	#2	1WB81	100
	1	#2	2WE66	100
#10	1¼	#2	1WB83	100
	1½	#2	1WB85	100
	1¾	#2	1WB87	100
	2	#2	1WB89	100
	2½	#2	1WB91	100
#12	3	#2	1WB93	100
	½	#3	1WB95	100
	¾	#3	1WB97	100
	1	#3	1WB99	100
#12	1¼	#3	1WE11	100
	1½	#3	1WE13	100
	2	#3	1WE15	100
	2½	#3	1WE17	25
	3	#3	1WE19	25
#14	¾	#3	1WE21	100
	1	#3	2WE67	100
	1¼	#3	1WE23	100
	1½	#3	1WE25	100
	1¾	#3	1WE27	50
	2	#3	1WE29	25
	2½	#3	1WE31	25
	3	#3	1WE33	25
Pan Head Combo Drive				
Steel				
#4	¼	#1	31JM41	100
	⅜	#1	1MA14	100
	½	#1	1MA15	100
	⅝	#1	1MA16	100
	¾	#1	31JM42	100
	1	#1	31JM43	100
#6	⅜	#2	1MA19	100
	½	#2	31JN67	8000
	⅝	#2	1MA21	100
	¾	#2	1MA22	100
	⅞	#2	31JM44	100
	1	#2	1MA23	100
	1¼	#2	1MA24	100
	1½	#2	1MA25	100
	2	#2	31JM45	100
#8	⅜	#2	31JM46	100
	½	#2	1MA27	100
	⅝	#2	1MA28	100
	¾	#2	1MA29	100
	⅞	#2	31JM47	100
#10	1	#2	1MA30	100
	1¼	#2	1MA31	100
	1½	#2	1MA32	100
	2	#2	1MA33	100
	2½	#2	31JM48	100
	3	#2	31JM49	100
#12	⅜	#2	31JM50	100
	½	#2	1MA34	100
	⅝	#2	31JM51	100
	¾	#2	1MA35	100
	⅞	#2	31JM52	100
#14	1	#2	1MA36	100
	1¼	#2	1MA37	100
	1½	#2	1MA38	100
	2	#2	1MA39	100
	2½	#2	1MA40	100
	3	#2	1MA41	100
	½	#3	1MA42	100
	⅝	#3	1MA43	100
	¾	#3	1MA44	100
	1	#3	1MA45	100
#12	1¼	#3	1MA46	100
	1½	#3	1MA47	100
	2	#3	1MA48	100
	2½	#3	1MA49	100
	3	#3	1MA50	100
	½	#3	31JM53	100
	¾	#3	1MA51	100
	1	#3	1MA52	100
#14	1¼	#3	1MA53	100
	1½	#3	1MA54	100
	2	#3	1MA55	100
	2½	#3	31JM54	100
	3	#3	31JM55	100
Pan Head Phillips Drive				
	¼	#1	2XB15	100
#4	⅜	#1	1LY38	100
	½	#1	1LY39	100
	⅝	#1	1LY40	100
	¾	#1	1LY41	100
	1	#1	1LY42	100
#6	¼	#2	1LY43	100
	⅜	#2	1LY44	100
	½	#2	1LY45	100
	⅝	#2	1LY46	100
	¾	#2	1LY47	100
	⅞	#2	31JM34	100
	1	#2	1LY49	100
	1¼	#2	1LY50	100
	1½	#2	1LY51	100
	2	#2	31JM35	100
#7	⅜	#2	1LY52	100
	½	#2	1LY53	100
	¾	#2	1LY54	100
	1	#2	31JM37	100
	1½	#2	31JM36	100
#8	¼	#2	1LY57	100
	⅜	#2	1LY58	100
	½	#2	1LY59	100
	⅝	#2	1LY60	100
	¾	#2	1LY61	100
	⅞	#2	1LY62	100
	1	#2	1LY63	100
	1¼	#2	1LY64	100
	1½	#2	1LY65	100
	1¾	#2	1LY66	100
	2	#2	1LY67	100
	2½	#2	1MA10	100
	3	#2	1MA11	100
#10	⅜	#2	1LY68	100
	½	#2	1LY69	100
	⅝	#2	1LY70	100
	¾	#2	1LY71	100
	⅞	#2	1LY72	100
	1	#2	1LY73	100
	1¼	#2	1LY74	100
	1½	#2	1LY75	100
	1¾	#2	1LY76	100
	2	#2	1LY77	100
	2½	#2	1LY78	100
	3	#2	1LY79	100
#12	½	#3	1LY80	100
	⅝	#3	1LY81	100
	¾	#3	1LY82	100
	⅞	#3	1LY83	100
	1	#3	1LY84	100
#12	1¼	#3	1LY85	100
	1½	#3	1LY86	100
	1¾	#3	1LY87	100
	2	#3	1LY88	100
	2½	#3	1MA12	100
	3	#3	1MA13	100
	½	#3	31JM39	100
	¾	#3	31JM40	100
	⅞	#3	1LY92	100
	1	#3	1LY93	100
#14	1¼	#3	1LY94	100
	1½	#3	1LY95	100
	1¾	#3	1LY96	100
	2	#3	1LY97	100
	2½	#3	1LY98	100
	3	#3	1LY99	100
	½	#3	1LY89	100
¼"	⅝	#3	1LY91	100
	¾	#3	1LY90	100
18-8 Stainless Steel				
#2	¼	#1	1VE41	100
	⅜	#1	1VE42	100
	¼	#1	1VE43	100
	⅜	#1	1VE44	100
#4	½	#1	1VE45	100
	⅝	#1	1VE46	100
	¾	#1	1VE47	100
	1	#1	31JN01	100
	¼	#2	1VE49	100
	⅜	#2	1VE50	100
	½	#2	1VE51	100
#6	⅝	#2	1VE52	100
	1	#2	1VE54	100
	1¼	#2	1VE55	100
	1½	#2	1VE56	100
	¼	#2	31JN02	100
	⅜	#2	1VE57	100
	½	#2	1VE58	100
	⅝	#2	1VE59	100
	¾	#2	1VE60	100
	⅞	#2	1VE61	100
#8	1	#2	1VE62	100
	1¼	#2	31JN03	100
	1½	#2	31JN04	100
	1¾	#2	1VE65	100
	2	#2	1VE66	100
	2½	#2	1VE67	100
	3	#2	1VE68	100
	⅜	#2	31JN05	100
	½	#2	31JN06	100
	⅝	#2	31JN07	100
	¾	#2	31JN08	100
	⅞	#2	1VE73	100
#10	1	#2	31JN09	100
	1¼	#2	31JN10	100
	1½	#2	31JN11	100
	1¾	#2	1VE77	100
	2	#2	31JN12	100
	2½	#2	1VE79	100
	3	#2	1VE80	100
	½	#3	1VE81	100
	⅝	#3	1VE82	100
	¾	#3	1VE83	100
	1	#3	1VE84	100
#12	1¼	#3	1VE85	100
	1½	#3	1VE86	100
	2	#3	1VE87	100
	2½	#3	1VE88	100
	3	#3	1VE89	100
	½	#3	1VE90	100
	⅝	#3	1VE91	100
	¾	#3	1VE92	100
	1	#3	1VE93	100
#14	1¼	#3	1VE94	100
	1½	#3	1VE95	100
	1¾	#3	1VE96	50
	2	#3	1VE97	50
	2½	#3	1VE98	50
	3	#3	1VE99	50
Round Head Phillips Drive				
#10	¾	#2	1VU94	100
	1	#2	1VU95	100
Truss Head Phillips Drive				
	¼	#1	1VU61	100
	⅜	#1	1VU62	100
#4	½	#1	31JN13	100
	¾	#1	31JN14	100
	1	#1	31JN15	100
	¼	#2	1VU64	100
	⅜	#2	31JN16	100
#6	½	#2	1VU66	100
	⅝	#2	1VU67	100
	¾	#2	31JN17	100
	1	#2	31JN18	100
	⅜	#2	1VU70	100
	½	#2	1VU71	100
	⅝	#2	1VU72	100
#8	¾	#2	1VU73	100
	1	#2	1VU74	100
	1¼	#2	31JN19	100
	1½	#2	31JN20	100
	2	#2	31JN21	100
	⅜	#2	1VU77	100
	½	#2	1VU78	100
	⅝	#2	1VU79	100
	¾	#2	31JN22	100
#10	1	#2	31JN23	100
	1¼	#2	1VU82	100
	1½	#2	1VU83	100
	2	#2	31JN24	100
	2½	#2	31JN25	100
	¾	#3	31JN26	100
	1	#3	31JN27	100
	1¼	#3	31JN28	100
#12	1½	#3	31JN29	100
	2	#3	31JN30	100
	2½	#3	31JN31	100
	3	#3	31JN32	100
	¾	#3	31JN33	100
	1	#3	31JN34	100
#14	1¼	#3	31JN35	100
	1½	#3	1VU89	100
	2	#3	31JN36	100
	2½	#3	31JN37	100
	3	#3	31JN38	100

GRAINGER MOBILE



Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> To download the app, visit **grainger.com/content/mobile-features**

Length	Driver Size	Thread Size	Material	Brand	Item No.	Pkg. Qty.
Imperial						
½"	5/16"	#10-16	Steel Climaseal	Teks	**36K122**	500
5/8"	5/16"	#10-16	Steel Climaseal	Teks	**36K133**	500
¾"	5/16"	#10-16	Steel Climaseal	Teks	**36K127**	500
	5/16"	#10-16	Steel Climaseal	Teks	**36K128**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K155**	500
	3/8"	¼"-14	Steel Climaseal	Teks	**36K110**	500
7/8"	5/16"	#12-24	Steel Climaseal	Teks	**36K169**	500
	5/16"	¼"-14	Steel Climaseal	Teks	**36K111**	500
1"	5/16"	#10-16	Steel Climaseal	Teks	**36K121**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K139**	500
	3/8"	¼"-14	Steel Climaseal	Teks	**36K097**	250
	7/16"	¼"-14	Steel Climaseal	Teks	**36K096**	250
1¼"	5/16"	#10-16	Steel Climaseal	Teks	**36K125**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K147**	500
	5/16"	#12-24	Steel Climaseal	Teks	**36K161**	500
	5/16"	#12-24	Steel Climaseal	Teks	**36K162**	500
	3/8"	¼"-14	Steel Climaseal	Teks	**36K103**	250
1½"	5/16"	#10-16	Steel Climaseal	Teks	**36K123**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K143**	250
	5/16"	#12-24	Steel Climaseal	Teks	**36K159**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K101**	250
1⅝"	5/16"	#12-24	Steel Climaseal	Teks	**36K165**	250
2"	5/16"	#12-14	Steel Climaseal	Teks	**36K150**	250
	5/16"	#12-24	Steel Climaseal	Teks	**36K166**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K107**	250
2½"	3/8"	#12-14	Steel Climaseal	Teks	**36K152**	100
	3/8"	¼"-14	Steel Climaseal	Teks	**36K108**	100
3"	5/16"	#12-14	Steel Climaseal	Teks	**36K153**	100
	5/16"	¼"-28	Steel Climaseal	Teks	**36K116**	100
4"	7/16"	¼"-14	Steel Climaseal	Teks	**36K109**	100
	5/16"	#12-14	Steel Climaseal	Teks	**36K158**	50
	5/16"	¼"-28	Steel Climaseal	Teks	**36K117**	50
Maxiseal® with Integral Washer						
¾"	5/16"	#10-16	Steel Climaseal	Teks	**36K131**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K157**	500
7/8"	5/16"	¼"-14	Steel Climaseal	Teks	**36K113**	500
1"	5/16"	#12-14	Steel Climaseal	Teks	**36K141**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K099**	250
1¼"	5/16"	#12-14	Steel Climaseal	Teks	**36K148**	250
1½"	5/16"	#12-24	Steel Climaseal	Teks	**36K145**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K102**	250
1¾"	3/8"	¼"-14	Steel Climaseal	Teks	**36K106**	250
Scots® with Integral Washer						
7/8"	5/16"	¼"-14	Steel Climaseal	Teks	**36K114**	250
1"	5/16"	#12-14	Steel Climaseal	Teks	**36K142**	250
1⅛"	5/16"	¼"-14	Steel Climaseal	Teks	**36K105**	250
1¼"	5/16"	#12-14	Steel Climaseal	Teks	**36K149**	250
1½"	5/16"	#12-14	Steel Climaseal	Teks	**36K146**	250
Self Drilling						
⅜"	¼"	#6-20	Steel Zinc	Fabory	**31JJ42**	200
	¼"	#6-20	Steel Zinc	Fabory	**31JK17**	7000
½"	¼"	#6-20	Steel Zinc	Fabory	**31JJ43**	200
	¼"	#6-20	Steel Zinc	Fabory	**31JJ92**	7000
	¼"	#8-18	410 SS Plain	Fabory	**1WU76**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ46**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JJ93**	5000
	5/16"	#10-16	410 SS Plain	Fabory	**1ME54**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ52**	200
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ97**	3000
5/8"	¼"	#8-18	410 SS Plain	Fabory	**1WU78**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ47**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JJ94**	4000
	5/16"	#10-16	410 SS Plain	Fabory	**1WU88**	100
	5/16"	#10-16	Steel Zinc	Fabory	**2XA47**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ98**	3000
¾"	¼"	#6-20	Steel Zinc	Fabory	**31JJ44**	200
	¼"	#6-20	Steel Zinc	Fabory	**31JK18**	5000
	¼"	#8-18	410 SS Plain	Fabory	**1WU80**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ48**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JJ95**	4000
	5/16"	#10-16	410 SS Plain	Fabory	**1WU90**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ53**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ99**	3000
	5/16"	#12-14	410 SS Plain	Fabory	**1WU98**	50
	5/16"	#12-14	Steel Zinc	Fabory	**31JJ58**	100
	5/16"	#12-14	410 SS Plain	Fabory	**31JK22**	2000
	5/16"	#12-14	Steel Zinc	Fabory	**31JK04**	2500
	3/8"	¼"-14	410 SS Plain	Fabory	**1WY18**	50
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ62**	100
	¾"	¼"-14	Steel Zinc	Fabory	**31JK06**	1500
1"	¼"	#6-20	Steel Zinc	Fabory	**31JJ45**	200
	¼"	#8-18	410 SS Plain	Fabory	**1WU82**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ49**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JJ96**	3000
	5/16"	#10-16	410 SS Plain	Fabory	**1WU92**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ54**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK01**	2500
	5/16"	#12-14	410 SS Plain	Fabory	**1WY10**	50
	5/16"	#12-14	Steel Zinc	Fabory	**1ME41**	100
	5/16"	#12-14	410 SS Plain	Fabory	**31JK23**	2000
	5/16"	#12-14	Steel Zinc	Fabory	**31JK05**	2000
	3/8"	¼"-14	410 SS Plain	Fabory	**1WY20**	50
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ63**	100
	3/8"	¼"-14	410 SS Plain	Fabory	**31JK24**	1000
	¾"	¼"-14	Steel Zinc	Fabory	**31JK07**	1000
1¼"	¼"	#8-18	410 SS Plain	Fabory	**1WU84**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ50**	100
	5/16"	#10-16	410 SS Plain	Fabory	**1WU94**	50
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ55**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK02**	2000
	5/16"	#12-14	410 SS Plain	Fabory	**1WY12**	50
	5/16"	#12-14	Steel Zinc	Fabory	**31JJ59**	100
	3/8"	¼"-14	410 SS Plain	Fabory	**1WY22**	25
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ64**	100
1½"	¼"	#8-18	410 SS Plain	Fabory	**1WU86**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JJ51**	100
	¼"	#8-18	Steel Zinc	Fabory	**31JK19**	2500
	5/16"	#10-16	410 SS Plain	Fabory	**1WU96**	50
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ56**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK03**	2000
	5/16"	#12-14	410 SS Plain	Fabory	**1WY14**	50
	5/16"	#12-14	Steel Zinc	Fabory	**31JJ60**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK20**	1500
	3/8"	¼"-14	410 SS Plain	Fabory	**1WY24**	25
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ65**	50
	¾"	¼"-14	Steel Zinc	Fabory	**31JK08**	1000
2"	5/16"	#10-16	Steel Zinc	Fabory	**31JJ57**	100
	5/16"	#12-14	410 SS Plain	Fabory	**1WY16**	25
	5/16"	#12-14	Steel Zinc	Fabory	**31JJ61**	50
	5/16"	#12-14	Steel Zinc	Fabory	**31JK21**	1000
	3/8"	¼"-14	410 SS Plain	Fabory	**1WY26**	25
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ66**	50
2½"	3/8"	¼"-14	410 SS Plain	Fabory	**1WY28**	10
	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ67**	50
3"	3/8"	¼"-14	Steel Zinc	Fabory	**31JJ68**	50
Self Drilling with Bonded Washer						
¾"	5/16"	#10-16	Steel Climaseal	Teks	**36K130**	500
	5/16"	#12-14	Steel Climaseal	Teks	**36K156**	500
⅞"	5/16"	¼"-14	Steel Climaseal	Teks	**36K112**	500
1"	5/16"	#12-14	Steel Climaseal	Teks	**36K140**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K098**	250
1¼"	5/16"	#12-24	Steel Climaseal	Teks	**36K164**	250
	3/8"	¼"-14	Steel Climaseal	Teks	**36K104**	250
1½"	5/16"	#10-16	Steel Climaseal	Teks	**36K124**	250
	5/16"	#12-14	Steel Climaseal	Teks	**36K144**	250
	5/16"	#12-24	Steel Climaseal	Teks	**36K160**	250
	5/16"	#12-24	Steel Climaseal	Teks	**36K163**	250
2"	5/16"	#12-14	Steel Climaseal	Teks	**36K151**	250


Hex Washer


w/Neoprene Washer

ITW Buildex FABORY

Self-Drilling Hex Washer Sheet Metal Screws

- Package quantities are exact

1-pc., 1-side-installation fasteners have a drilling point tip that drills its own hole and forms its own internal mating threads.

Climaseal® corrosion-resistant finish provides excellent resistance to most forms of abrasion and torque.

Electro Zinc corrosion-resistant finish is applied to No. 36K129.

Gray Spex corrosion-resistant finish on No. 36K145 is an organic waterborne coating, applied with a state-of-the-art process that eliminates Phillips recess fill problems.

Length	Driver Size	Thread Size	Material	Brand	Item No.	Pkg. Qty.
Self Drilling with Neoprene Washer						
5/8"	5/16"	#10-16	Steel Zinc	Fabory	**2XA56**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK11**	3000
¾"	¼"	#8-18	Steel Zinc	Fabory	**31JJ83**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JK33**	4000
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ87**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK12**	3000
	5/16"	#12-14	Steel Zinc	Fabory	**2DU79**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK13**	2500
	3/8"	¼"-14	Steel Zinc	Fabory	**1ME17**	100
	¾"	¼"-14	Steel Zinc	Fabory	**31JK15**	1500
1"	¼"	#8-18	Steel Zinc	Fabory	**31JJ84**	200
	¼"	#8-18	Steel Zinc	Fabory	**31JK34**	3000
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ88**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK35**	2500
	5/16"	#12-14	Steel Zinc	Fabory	**2DU80**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK14**	2000
	3/8"	¼"-14	Steel Zinc	Fabory	**2DU84**	100
1¼"	¼"	#8-18	Steel Zinc	Fabory	**31JJ85**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ89**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK36**	2000
	5/16"	#12-14	Steel Zinc	Fabory	**2DU81**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK39**	1500
	3/8"	¼"-14	Steel Zinc	Fabory	**1ME19**	100
1½"	¼"	#8-18	Steel Zinc	Fabory	**31JJ86**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JJ90**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK37**	2000
	5/16"	#12-14	Steel Zinc	Fabory	**2DU82**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK40**	1500
2"	5/16"	#10-16	Steel Zinc	Fabory	**31JJ91**	100
	5/16"	#10-16	Steel Zinc	Fabory	**31JK38**	1500
	5/16"	#12-14	Steel Zinc	Fabory	**2XA62**	100
	5/16"	#12-14	Steel Zinc	Fabory	**31JK41**	1000
3"	3/8"	¼"-14	Steel Zinc	Fabory	**1ME22**	50
With Serrations Under Head						
¾"	5/16"	#10-16	Steel Electro-Zinc	Teks	**36K129**	500

Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
Flat Head Phillips Drive						
#6-20	½	#2	410 SS	Fabory	**1WY74**	100
	½	#2	Steel	Fabory	**31JJ69**	100
	5/8	#2	410 SS	Fabory	**1WY76**	100
	5/8	#2	Steel	Fabory	**31JJ70**	100
	¾	#2	410 SS	Fabory	**1WY78**	100
	¾	#2	Steel	Fabory	**31JJ71**	100
	1	#2	410 SS	Fabory	**1WY80**	100
	1	#2	Steel	Fabory	**31JJ72**	100
	1¼	#2	Steel	Fabory	**31JJ73**	100
	1½	#2	Steel	Fabory	**31JJ74**	100
	1⅝	#2	Steel	Fabory	**31JJ75**	100
#8-18	¾	#2	410 SS	Fabory	**1WY82**	100
	¾	#2	Steel	Fabory	**31JJ76**	100
	1	#2	410 SS	Fabory	**1WY84**	100
	1	#2	Steel	Fabory	**31JJ77**	100
	1¼	#2	Steel	Fabory	**31JJ78**	100
	1½	#2	Steel	Fabory	**31JJ79**	100
	1⅝	#2	Steel	Fabory	**31JJ80**	100
#10-16	1¼	#2	410 SS	Fabory	**1WY92**	50
	1½	#2	410 SS	Fabory	**1WY94**	50
#10-24	1 1/16	#2	Steel	Teks	**36K136**	500
#12-24	2¼	#3	Steel	Teks	**36K167**	250
	2¾	#3	Steel	Teks	**36K168**	250
¼"-20	3	#3	Steel	Teks	**36K115**	100
Flat Head Phillips or Robertson or Square Drive						
#10-16	1 13/16	#2	Steel	Teks	**36K126**	250
K-Lath Head Hex Drive						
#8-18	1¼	#2	Steel	Fabory	**31JK10**	2500

Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
K-Lath Head Phillips Drive						
#6-20	½	#2	Steel	Fabory	**31JK28**	4000
	¾	#2	Steel	Fabory	**31JK29**	3500
	1	#2	Steel	Fabory	**31JK30**	3000
#8-18	1½	#2	Steel	Fabory	**31JJ81**	100
	1½	#2	Steel	Fabory	**31JK31**	2000
	1⅝	#2	Steel	Fabory	**31JJ82**	100
	1⅝	#2	Steel	Fabory	**31JK32**	2000
Pan Head Phillips Drive						
#6-20	⅜	#2	Steel	Fabory	**2DU88**	100
	½	#2	410 SS	Fabory	**1WY30**	100
	½	#2	Steel	Fabory	**2DU89**	100
	⅝	#2	410 SS	Fabory	**1WY32**	100
	⅝	#2	Steel	Fabory	**2DU90**	100
	¾	#2	410 SS	Fabory	**1WY34**	100
	¾	#2	Steel	Fabory	**2DU91**	100
	1	#2	Steel	Fabory	**2DU92**	100
#8-18	½	#2	410 SS	Fabory	**1WY36**	100
	½	#2	Steel	Fabory	**2DU93**	100
	⅝	#2	410 SS	Fabory	**1WY38**	100
	⅝	#2	Steel	Fabory	**2DU94**	100
	¾	#2	410 SS	Fabory	**1WY40**	100
	¾	#2	Steel	Fabory	**2DU95**	100
	1	#2	410 SS	Fabory	**1WY42**	100
	1	#2	Steel	Fabory	**2DU96**	100
	1¼	#2	410 SS	Fabory	**1WY44**	100
	1¼	#2	Steel	Fabory	**2DU97**	100
	1½	#2	Steel	Fabory	**2DU98**	100


Pan Head

FABORY ITW Buildex

Self-Drilling Sheet Metal Screws

1-pc., 1-side-installation fasteners drill their own holes and form their own internal mating threads.

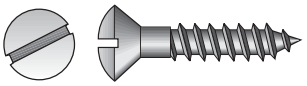
Climacoat™ finish prevents rust from bleeding into substrate.

Climaseal® corrosion-resistant finish provides excellent resistance to most forms of abrasion and torque.

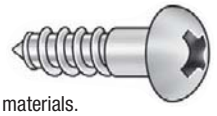
Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
#10-16	½	#3	410 SS	Fabory	**1WY48**	100
	½	#2	Steel	Fabory	**2DU99**	100
	5/8	#2	Steel	Fabory	**2DV10**	100
	¾	#3	Steel	Fabory	**2DV11**	100
	1	#2	410 SS	Fabory	**1WY52**	100
	1	#3	Steel	Fabory	**2DV12**	100
	1¼	#2	410 SS	Fabory	**1WY54**	50
	1¼	#3	Steel	Fabory	**2DV13**	100
	1½	#2	410 SS	Fabory	**1WY56**	50
	1½	#3	Steel	Fabory	**2DV14**	100
#10-12	1	#2	Steel	Tappers	**36K118**	500
	1½	#2	Steel	Tappers	**36K119**	250
#12-14	¾	#3	410 SS	Fabory	**1WY58**	50
	¾	#3	Steel	Fabory	**2DV15**	100
	1	#3	410 SS	Fabory	**1WY60**	50
	1	#3	Steel	Fabory	**2DV16**	100
	1¼	#3	410 SS	Fabory	**1WY62**	50
	1½	#3	410 SS	Fabory	**1WY64**	50
	1¼	#3	410 SS	Fabory	**1WY68**	25
¼"-14	1½	#3	410 SS	Fabory	**1WY70**	25
	2	#3	410 SS	Fabory	**1WY72**	25
Pan Head Phillips or Robertson or Square Drive						
#10-16	1	#2	Steel	Teks	**36K120**	500
#12-14	1	#2	Steel	Teks	**36K138**	500
Wafer Head Phillips Drive						
#10-24	1	#2	Steel	Teks	**36K134**	500



Flat Head, Square Drive



Oval Head, Slotted Drive



Round Head, Phillips Drive

Wood Screws

- Pkg. 100

For use with wood or other resilient materials.

Meet ANSI/ASME B18.6.1 standards.

Note: Flat head and round head slotted-drive wood screws are also available; on Grainger.com®, search for "wood screws."

Size	L	Item No.
Flat Head, Phillips Drive		
18-8 Stainless Steel Plain		
#4	⅜"	31JG41
#4	½"	31JG42
#4	⅝"	31JG43
#4	¾"	31JG44
#4	1"	31JG45
#4	1¼"	31JG46
#5	⅝"	31JG47
#5	¾"	31JG48
#5	1"	31JG49
#6	⅜"	31JG50
#6	½"	2DV24
#6	⅝"	31JG51
#6	¾"	2DV25
#6	1"	31JG52
#6	1¼"	31JG53
#6	1½"	31JG54
#6	2"	31JG55
#7	½"	31JG56
#7	⅝"	31JG57
#7	¾"	31JG58
#7	1"	31JG59
#7	1¼"	31JG60
#7	1½"	31JG61
#8	½"	31JG62
#8	⅝"	31JG63
#8	¾"	2DV26
#8	⅞"	31JG64
#8	1"	31JG65
#8	1¼"	31JG66
#8	1½"	2DV28
#8	1¾"	2DV29
#8	2"	2DV30
#8	2½"	31JG67
#8	3"	31JG68
#10	⅝"	31JG69
#10	¾"	31JG70
#10	1"	31JG71
#10	1¼"	31JG72
#10	1½"	31JG73
#10	1¾"	2DV32
#10	2"	2DV33
#10	2¼"	31JG74
#10	2½"	31JG75
#10	3"	31JG76
#10	3½"	31JG77
#12	¾"	31JG78
#12	1"	31JG79
#12	1¼"	31JG80
#12	1½"	2DV34
#12	1¾"	2DV35
#12	2"	2DV36
#12	2½"	2DV37
#12	3"	31JG81
#14	1¼"	31JG82
#14	1½"	31JG83
#14	2"	31JG84
#14	2½"	2DV38
#14	3"	31JG85
#14	3½"	31JG86
#14	4"	31JG87
Brass Plain		
#2	⅜"	1KY56
#2	½"	1KY57
#3	⅜"	1KY58
#3	½"	1KY59
#3	¾"	1KY60
#4	¼"	1KY61
#4	⅜"	1KY62
#4	½"	1KY63
#4	⅝"	1KY64
#4	¾"	1KY65
#4	⅞"	1KY66
#4	1"	1KY67
#4	1¼"	1KY68
#5	½"	1KY69
#5	⅝"	1KY70
#5	¾"	1KY71
#6	⅜"	1KY72
#6	½"	1KY73
#6	⅝"	1KY74
#6	¾"	1KY75
#6	⅞"	1KY76
#6	1"	1KY77
#6	1¼"	1KY78
#6	1½"	1KY79
#6	2"	31JG06
#7	½"	1KY80
#7	⅝"	1KY81
#7	¾"	31JG07
#7	1"	31JG08
#7	1¼"	31JG09
#7	1½"	1KY84
#8	½"	1KY85
#8	⅝"	1KY86
#8	¾"	1KY87
#8	⅞"	1KY88
#8	1"	1KY89
#8	1¼"	1KY90
#8	1½"	1KY91
#8	1¾"	1KY92
#8	2"	31JG10
#8	2½"	1KY94
#8	3"	1KY95
#9	1"	1KY96
#9	1½"	1KY97
#10	⅝"	31JG11
#10	¾"	1KY98
#10	1"	31JG12
#10	1¼"	1LA10
#10	1½"	1LA11
#10	1¾"	1LA12
#10	2"	1LA13
#10	2¼"	31JG13
#10	2½"	1LA14
#10	3"	1LA15
#10	3½"	31JG14
#12	¾"	1LA16
#12	1"	1LA17
#12	1¼"	1LA18
#12	1½"	31JG15
#12	1¾"	1LA20
#12	2"	1LA21
#12	2½"	1LA22
#12	3"	1LA23
#14	1¼"	31JG16
#14	1½"	1LA24
#14	2"	1LA25
#14	2½"	1LA26
#14	3"	1LA27
#14	3½"	31JG17
#14	4"	31JG18
Steel Yellow Zinc		
#4	⅜"	31JE35
#4	½"	31JE36
#4	⅝"	31JE37
#4	¾"	31JE38
#4	1"	31JE39
#4	1¼"	31JE40
#5	⅝"	31JE41
#5	¾"	31JE42
#5	1"	31JE43
#6	⅜"	31JE44
#6	½"	31JE45
#6	⅝"	31JE46
#6	¾"	31JE47
#6	1"	31JE48
#6	1¼"	31JE49
#6	1½"	31JE50
#6	2"	31JE51
#7	½"	31JE52
#7	⅝"	31JE53
#7	¾"	31JE54
#7	1"	31JE55
#7	1¼"	31JE56
#7	1½"	31JE57
#8	½"	31JE58
#8	⅝"	31JE59
#8	¾"	31JE60
#8	⅞"	31JE61
#8	1"	31JE62
#8	1¼"	31JE63
#8	1½"	31JE64
#8	1¾"	31JE65
#8	2"	31JE66
#8	2½"	31JE67
#8	3"	31JE68
#10	⅝"	31JE69
#10	¾"	31JE70
#10	1"	31JE71
#10	1¼"	31JE72
#10	1½"	31JE73
#10	1¾"	31JE74
#10	2"	31JE75
#10	2¼"	31JE76
#10	2½"	31JE77
#10	3"	31JE78
#10	3½"	31JE79
#12	¾"	31JE80
#12	1"	31JE81
#12	1¼"	31JE82
#12	1½"	31JE83
#12	1¾"	31JE84
#12	2"	31JE85
#12	2½"	31JE86
#12	3"	31JE87
#14	1¼"	31JE88
#14	1½"	31JE89
#14	2"	31JE90
#14	2½"	31JE91
#14	3"	31JE92
#14	3½"	31JE93
#14	4"	31JE94
Steel Zinc		
#4	⅜"	1KU50
#4	½"	1KU52
#4	⅝"	1KU54
#4	¾"	1KU56
#4	1"	1KU59
#4	1¼"	1KU60
#5	⅝"	1KU62
#5	¾"	1KU64
#5	1"	1KU66
#6	⅜"	1KU68
#6	½"	1KU70
#6	⅝"	1KU72
#6	¾"	1KU74
#6	1"	1KU76
#6	1¼"	1KU78
#6	1½"	1KU80
#6	2"	1KU82
#7	½"	1KU84
#7	⅝"	1KU86
#7	¾"	1KU88
#7	1"	1KU90
#7	1¼"	1KU92
#7	1½"	1KU94
#8	½"	1KU96
#8	⅝"	1KU98
#8	¾"	1KY10
#8	⅞"	1KY12
#8	1"	1KY14
#8	1¼"	1KY16
#8	1½"	1KY17
#8	1¾"	1KY18
#8	2"	1KY19
#8	2½"	1KY20
#8	3"	1KY21
#9	¾"	1KY22
#9	1"	1KY23
#9	1¼"	1KY24
#9	1½"	1KY25
#9	2"	1KY26
#9	3"	1KY27
#10	⅝"	1KY28
#10	¾"	1KY29
#10	1"	1KY30
#10	1¼"	1KY31
#10	1½"	1KY32
#10	1¾"	1KY33
#10	2"	1KY34
#10	2¼"	1KY35
#10	2½"	1KY36
#10	3"	1KY37
#10	3½"	1KY38
#12	¾"	1KY39
#12	1"	1KY40
#12	1¼"	1KY41
#12	1½"	1KY42
#12	1¾"	1KY43
#12	2"	1KY44
#12	2½"	1KY45
#12	3"	1KY46
#14	1¼"	1KY49
#14	1½"	1KY50
#14	2"	1KY51
#14	2½"	1KY52
#14	3"	1KY53
#14	3½"	1KY54
#14	4"	1KY55
Flat Head, Slotted Drive		
Steel Yellow Zinc		
#4	½"	31JF11
#4	¾"	31JF12
#5	¾"	31JF13
#6	½"	31JF14
#6	⅝"	31JF15
#6	¾"	31JF16
#6	1"	31JF17
#6	1¼"	31JF18
#6	1½"	31JF19
#8	¾"	31JF20
#8	1"	31JF21
#8	1¼"	31JF22
#8	1½"	31JF23
#10	1"	31JF24
#10	1½"	31JF25
Steel Zinc		
#4	½"	31JE95
#4	¾"	31JE96
#5	¾"	31JE97
#6	½"	31JE98
#6	⅝"	31JE99
#6	¾"	31JF01
#6	1"	31JF02
#6	1¼"	31JF03
#6	1½"	31JF04
#8	¾"	31JF05
#8	1"	31JF06
#8	1¼"	31JF07
#8	1½"	31JF08
#10	1"	31JF09
#10	1½"	31JF10
Flat Head, Square Drive		
18-8 Stainless Steel Plain		
#6	½"	31JG88
#6	1"	31JG89
#6	1¼"	31JG90
#6	1½"	31JG91
#8	¾"	31JG92
#8	1"	31JG93
#8	1¼"	31JG94
#8	1½"	31JG95
#10	1"	31JG96
#10	1¼"	31JG97
#10	1½"	31JG98
Steel Yellow Zinc		
#4	½"	31JF26
#4	¾"	31JF27
#6	½"	31JF28
#6	¾"	31JF29
#6	1"	31JF30
#6	1¼"	31JF31
#6	1½"	31JF32
#8	½"	31JF33
#8	¾"	31JF34
#8	1"	31JF35
#8	1¼"	31JF36
#8	1½"	31JF37
#8	2"	31JF38
#8	2½"	31JF39
#8	3"	31JF40
#10	¾"	31JF41
#10	1"	31JF42
#10	1¼"	31JF43
#10	1½"	31JF44
#10	1¾"	31JF45
#10	2"	31JF46
#10	2½"	31JF47
#10	3"	31JF48
#12	1"	31JF49
#12	1½"	31JF50
#12	2"	31JF51
#12	2½"	31JF52
#12	3"	31JF53
Steel Zinc		
#4	½"	1LA28
#4	¾"	1LA29
#6	½"	1LA30
#6	¾"	1LA31
#6	1"	1LA32
#6	1¼"	1LA33
#6	1½"	1LA34
#8	½"	1LA35
#8	¾"	1LA36
#8	1"	1LA37
#8	1¼"	1LA38
#8	1½"	1LA39
#8	2"	1LA40
#8	2½"	1LA41
#8	3"	1LA42
#10	¾"	1LA43
#10	1"	1LA44
#10	1¼"	1LA45
#10	1½"	1LA46
#10	1¾"	1LA47
#10	2"	1LA48
#10	2½"	1LA49
#10	3"	1LA50
#12	1"	1LA51
#12	1½"	1LA52
#12	2"	1LA53
#12	2½"	1LA54
#12	3"	1LA55
Head, Phillips Drive		
Brass Plain		
#6	½"	1NB30
#6	1"	1NB32
#6	1¼"	1NB33
#6	1½"	1NB34
#8	¾"	1NB36
#8	1"	1NB38
#8	1¼"	1NB40
#8	1½"	1NB42
#10	1"	1NB44
#10	1¼"	1NB46
#10	1½"	1NB48
Head, Slotted Drive		
Steel Zinc		
#7	½"	1KU84
Oval Head, Slotted Drive		
Brass Plain		
#4	½"	1NB15
#4	¾"	1NB16
#6	⅝"	1NB19
#6	¾"	1NB20
#6	1"	1NB21
#6	1¼"	1NB22
#6	1½"	1NB23
#8	¾"	1NB24
#8	1¼"	1NB26
#8	1½"	1NB27
#10	1"	1NB28
#10	1½"	1NB29
Raised Countersunk Head, Slotted Drive		
18-8 Stainless Steel Plain		
#4	½"	31JG99
#4	¾"	31JH01
#6	⅝"	31JH02
#6	¾"	31JH03
#6	1"	31JH04
#6	1¼"	31JH05
#6	1½"	31JH06
#8	½"	31JH07
#8	¾"	31JH08
#8	1¼"	31JH09
#8	1½"	31JH10
#8	2½"	31JH11
#10	1"	31JH12
#10	1¼"	31JH13
#10	1½"	31JH14
#10	2½"	31JH15
#12	1"	31JH16
#12	1¾"	31JH17
#14	1"	31JH18
#14	1¾"	31JH19
Brass Plain		
#8	½"	31JF96
#8	2½"	31JF97
#10	1¼"	31JF98
#10	2½"	31JF99
#12	1"	31JG01
#12	1¾"	31JG02
#14	1"	31JG03
#14	1¾"	31JG04
Steel Zinc		
#4	½"	31JF76
#4	¾"	31JF77
#6	⅝"	31JF78
#6	¾"	31JF79
#6	1"	31JF80
#6	1¼"	31JF81
#6	1½"	31JF82
#8	½"	31JF83
#8	¾"	31JF84
#8	1¼"	31JF85
#8	1½"	31JF86
#8	2½"	31JF87
#10	1"	31JF88
#10	1¼"	31JF89
#10	1½"	31JF90
#10	2½"	31JF91
#12	1"	31JF92
#12	1¾"	31JF93
#14	1"	31JF94
#14	1¾"	31JF95
Round Head, Phillips Drive		
18-8 Stainless Steel Plain		
#6	½"	31JG30
#6	1"	31JG31
#6	1¼"	31JG32
#6	1½"	31JG33
#8	¾"	31JG34
#8	1"	31JG35
#8	1¼"	31JG36
#8	1½"	31JG37
#10	1"	31JG38
#10	1¼"	31JG39
#10	1½"	31JG40
Steel Yellow Zinc		
#6	½"	31JF65
#6	1"	31JF66
#6	1¼"	31JF67
#6	1½"	31JF68
#8	¾"	31JF69
#8	1"	31JF70
#8	1¼"	31JF71
#8	1½"	31JF72
#10	1"	31JF73
#10	1¼"	31JF74
#10	1½"	31JF75
Steel Zinc		
#6	½"	31JF54
#6	1"	31JF55
#6	1¼"	31JF56
#6	1½"	31JF57
#8	¾"	31JF58
#8	1"	31JF59
#8	1¼"	31JF60
#8	1½"	31JF61
#10	1"	31JF62
#10	1¼"	31JF63
#10	1½"	31JF64
Round Head, Slotted Drive		
18-8 Stainless Steel Plain		
#6	½"	31JG19
#6	1"	31JG20
#6	1¼"	31JG21
#6	1½"	31JG22
#8	¾"	31JG23
#8	1"	31JG24
#8	1¼"	31JG25
#8	1½"	31JG26
#10	1"	31JG27
#10	1¼"	31JG28
#10	1½"	31JG29
Steel Yellow Zinc		
#6	½"	31JE23
#6	1"	31JE24
#6	1¼"	31JE25
#6	1½"	31JE26
#8	¾"	31JE27
#8	1"	31JE28
#8	1¼"	31JE29
#8	1½"	31JE30
#10	1"	31JE31
#10	1¼"	31JE32
#10	1½"	31JE33



Flat-Head Wood Screw



Pan-Head Composite Screw



Driver Bit

Phillips Square-Driv® Wood Screws and Bits

- Bit included with each box of screws

Case-hardened, flat-head screws have 35% more steel under the head to prevent snapping. Paintable, stainable Durafast™ coating will not rust or streak and is corrosion-resistant.

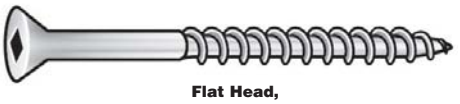
Size	Length	Head Type	Pkg. Qty.	GREEN Item No.	RED Item No.	TAN Item No.	GRAY Item No.
Flat Head Wood Screw, Phillips Square Drive PSD2-2							
#7	1¼"	Flat	228	4VYH9	4VYJ1	4VYJ2	—
#8	1⅝"	Flat	142	4VYJ3	—	4VYJ5	—
		Flat	710	4VYK9	4VYL1	4VYL2	—
		Flat	3450	—	—	4VYN6	—
#9	2"	Flat	99	4VYJ6	4VYJ7	4VYJ8	—
		Flat	495	4VYL3	4VYL4	4VYL5	—
	2½"	Flat	84	4VYJ9	4VYK1	4VYK2	—
		Flat	420	4VYL6	4VYL7	4VYL8	—
		Flat	2100	4VYP3	4VYN7	4VYN8	—
	3"	Flat	69	4VYK3	4VYK4	4VYK5	—
		Flat	345	4VYL9	4VYN1	4VYN2	—
		Flat	1725	4VYN9	4VYP1	4VYP2	—
	3½"	Flat	57	4VYK6	4VYK7	4VYK8	—
		Flat	280	4VYN3	4VYN4	4VYN5	—
Pan Head Composite Screw, Square Drive #2							
#10	2½"	Pan	2125	—	—	4VYP6	—
	3"	Pan	375	—	4VYR5	4VYR6	4VYR4
		Pan	1875	—	—	—	4VYP7

Type	Pkg. Qty.	1" BIT LENGTH Item No.	2" BIT LENGTH Item No.
Driver Bit For Use With Wood Screws			
Phillips Square	2	4VYR7	4VYR9
Phillips Square	5	4VYR8	4VYT1
Driver Bit For Use With Composite Screws			
Phillips Square	2	4VYT2	—

AUTO-REORDER

Don't run out of the products you need to help keep your employees safe. Decide exactly how much you need now and how often you need it, and we'll take care of the rest. Get email notifications before your order is automatically replaced, and adjust or cancel orders anytime.

> Get started today at **grainger.com/autoreorder**



Flat Head, Square Drive

Deck Screws

Coarse thread and Type 17 point make it easier to assemble wood and vinyl decks, or any outdoor wood-to-wood project. Countersunk flat head produces a flat surface area. Number 2 drive size provides superior driving with 4 points of contact.

Size	Length	Item No.	Pkg. Qty.
305 Stainless Steel			
Bugle Head, Star Drive			
#8	1⅝"	31JJ22	200
	2"	31JJ23	200
	2¼"	31JJ24	200
	2½"	31JJ25	200
	3"	31JJ26	200
#10	1⅝"	31JJ27	200
	2"	31JJ28	200
	2½"	31JJ29	200
	3"	31JJ30	200
	3½"	31JJ31	200

Size	Length	Item No.	Pkg. Qty.
Flat Head, Square Drive			
#8	1¼"	1VB34	100
	1⅝"	1VB35	50
	2"	1VB36	50
	2½"	1VB37	50
#10	1½"	1VB38	50
	2"	1VB39	50
	2½"	1VB40	25
	3"	1VB41	25
	3½"	1VB42	25
Steel, Yellow Zinc Finish			
Bugle Head, Star Drive			
#8	1⅝"	31JJ32	200
	2"	31JJ33	200
	2¼"	31JJ34	200
	2½"	31JJ35	200
	3"	31JJ36	200
#10	1⅝"	31JJ37	200
	2"	31JJ38	200
	2½"	31JJ39	200
	3"	31JJ40	200
	3½"	31JJ41	200



82° Flat Head

Drywall Screws

Attach drywall or wallboard to metal or wood studs and joists without the need for predrilling. Thread-cutting screws feature a thin shank, deep threads, and a very sharp point. With a #2 Phillips driver, the countersunk bugle head won't tear the surface paper of the drywall. Made of steel with black phosphate finish.

Size	L	Thread Type	Item No.	Pkg. Qty.
Sharp Point, Phillips Drive				
#6	¾"	Fine	32MT46	500
	1"	Fine	32MT47	500
	1⅛"	Fine	32MT48	500
	1¼"	Fine	32MT49	500
	1⅝"	Fine	32MT50	500
	2"	Fine	32MT51	200
	2¼"	Fine	32MT52	200
#8	2½"	Fine	32MT53	200
	3"	Fine	32MT54	200
#10	1½"	Fine	32MT55	200
	3½"	Fine	32MT56	200
	4"	Fine	32MT57	100
	4½"	Fine	32MT58	100
Self Tapping Point, Phillips Drive				
#6	½"	Coarse	32MT16	500
	¾"	Coarse	32MT17	500
		Coarse	32MR77	10000
	1"	Coarse	32MT18	500
		Coarse	32MR78	7000
		Fine	32MT03	7000
	1⅛"	Coarse	32MT19	500
		Coarse	32MR79	7000
		Fine	32MT04	7000
	1¼"	Coarse	32MT20	500
		Coarse	32MR80	6000
		Fine	32MT05	6000
	1½"	Coarse	32MT21	500
		Coarse	32MR81	5000
	1⅝"	Coarse	32MT22	500
	2"	Coarse	32MT23	200
		Coarse	32MR82	3000
		Fine	32MT06	3500
	2¼"	Coarse	32MT24	200
		Coarse	32MR83	4000
		Fine	32MT07	4000
	2½"	Coarse	32MT25	200
		Coarse	32MR84	3000
	3"	Coarse	32MT26	200
		Coarse	32MR85	3000

Size	L	Thread Type	Item No.	Pkg. Qty.
#7	7⁄16"	Fine	32TG65	500
		Fine	32TG66	10000
	1¼"	Coarse	32MT27	500
		Coarse	32MR86	6000
	1⅝"	Coarse	32MT28	500
		Coarse	32MR87	5000
	1¾"	Coarse	32MT29	200
		Coarse	32MR88	4000
	2"	Coarse	32MT30	200
		Coarse	32MR89	4000
#8	¾"	Coarse	32MT31	500
		Coarse	32MR90	7000
	1"	Coarse	32MT32	500
		Coarse	32MR91	6000
	1½"	Coarse	32MT33	200
		Coarse	32MR92	4000
	1⅝"	Coarse	32MT34	200
	2"	Coarse	32MT35	200
		Coarse	32MR93	4000
	2¼"	Coarse	32MT36	200
		Coarse	32MR94	3000
	2½"	Coarse	32MT37	200
		Fine	32MT08	2500
	3"	Coarse	32MT38	200
		Coarse	32MR95	1300
		Fine	32MT09	2500
#10	1½"	Coarse	32MT39	200
		Coarse	32MR96	3000
		Fine	32MT10	3000
	2"	Coarse	32MT40	200
		Coarse	32MR97	3000
	2½"	Coarse	32MT41	200
		Coarse	32MR98	2000
	3"	Coarse	32MT42	200
		Coarse	32MR99	2000
	3½"	Coarse	32MT43	200
		Coarse	32MT01	2000
	3¾"	Coarse	32MT44	100
	4"	Coarse	32MT45	100
		Coarse	32MT02	1500
Self Drilling Point, Phillips Drive				
#6	1"	Fine	32MT59	500
	1⅛"	Fine	32MT11	7000
		Fine	32MT60	500
	1¼"	Fine	32MT12	7000
		Fine	32MT61	500
	1⅝"	Fine	32MT13	6000
		Fine	32MT62	500
	2⅜"	Fine	32MT14	5000
#8	3"	Fine	32MT63	200
		Fine	32MT64	200
		Fine	32MT15	2500



Hex Head Lag Screw

Hex Head Lag Screws

Use for building fences, decks, patios, and outdoor furniture, as well as for other wood-to-wood applications. All meet ASME B18.2.1 standard.

L	Material	Item No.	Pkg. Qty.
Hex Head Lag Screws			
¼" Size, 7⁄16" Drive			
1"	18-8 SS Plain	**1VB43**	100
	Steel Zinc	**1LB67**	100
	Steel Galv	**1LE32**	100
	Steel Zinc	**32TK29**	1500
1¼"	18-8 SS Plain	**3AWU2**	50
	Steel Zinc	**1LB68**	100
	Steel Galv	**1LE33**	100
	Steel Zinc	**32TK30**	1300
1½"	18-8 SS Plain	**3AWY1**	50
	Steel Zinc	**1LB69**	100
	Steel Galv	**1LE34**	100
	Steel Zinc	**32TK31**	1200
1¾"	Steel Zinc	**1LB70**	100
2"	18-8 SS Plain	**3AWY4**	25
	Steel Zinc	**1LB71**	100
	Steel Galv	**1LE35**	100
	Steel Zinc	**32TK32**	900
2½"	18-8 SS Plain	**3AWY5**	25
	18-8 SS Plain	**32TK85**	750
	Steel Zinc	**1LB72**	100
	Steel Galv	**1LE36**	100
	Steel Zinc	**32TK33**	800
	Steel Galv	**32TK66**	800
3"	18-8 SS Plain	**3AWU9**	25
	Steel Zinc	**1LB73**	100
	Steel Galv	**1LE37**	100
	Steel Zinc	**32TK34**	600
3½"	18-8 SS Plain	**3AWT7**	25
	Steel Zinc	**1LB74**	100
	Steel Galv	**1LE38**	100
	Steel Zinc	**32TK35**	500
4"	18-8 SS Plain	**3AWU1**	25
	Steel Zinc	**1LB75**	100
	Steel Galv	**1LE39**	100
	Steel Zinc	**32TK36**	500
4½"	Steel Zinc	**32TK37**	400
	Steel Zinc	**31JD86**	100
5"	Steel Zinc	**1LB76**	100
	Steel Galv	**1LE40**	100
	Steel Zinc	**32TK38**	400
6"	Steel Zinc	**1LB77**	100
	Steel Zinc	**32TK39**	300
6½"	Steel Zinc	**31JD87**	100
5⁄16" Size, ½" Drive			
1"	Steel Zinc	**1LB78**	100
	Steel Galv	**1LE42**	100
	Steel Zinc	**32TK40**	900
1¼"	Steel Zinc	**1LB79**	100
1½"	18-8 SS Plain	**3AWT4**	50
	Steel Zinc	**1LB80**	100
	Steel Galv	**1LE43**	100
	Steel Zinc	**32TK41**	700
	Steel Galv	**32TK67**	700
1¾"	Steel Zinc	**1LB81**	100
2"	18-8 SS Plain	**3AWT3**	25
	Steel Zinc	**1LB82**	100
	Steel Galv	**1LE44**	100
	Steel Zinc	**32TK42**	500
	Steel Galv	**32TK68**	600
2½"	18-8 SS Plain	**3AWX5**	25
	Steel Zinc	**1LB83**	100
	Steel Galv	**1LE45**	100
	Steel Zinc	**32TK43**	400
	Steel Galv	**32TK69**	500
3"	18-8 SS Plain	**3AWT2**	25
	Steel Zinc	**1LB84**	100
	Steel Galv	**1LE46**	100
	Steel Zinc	**32TK44**	400
	Steel Galv	**32TK70**	400
3½"	18-8 SS Plain	**3AWX4**	25
	Steel Zinc	**1LB85**	50
	Steel Galv	**1LE47**	50
	Steel Zinc	**32TK45**	350
4"	18-8 SS Plain	**3AWU5**	10
	Steel Zinc	**1LB86**	50
	Steel Galv	**1LE48**	50
	Steel Zinc	**32TK46**	300
4½"	Steel Zinc	**32TK47**	300
	Steel Zinc	**31JD88**	50
5"	18-8 SS Plain	**3AWX2**	10
	Steel Zinc	**1LB87**	50
	Steel Galv	**1LE49**	50
	Steel Zinc	**32TK48**	250
	Steel Galv	**32TK71**	250
6"	18-8 SS Plain	**3AWU4**	10
	Steel Zinc	**1LB88**	50
	Steel Galv	**1LE50**	50
	Steel Zinc	**32TK49**	200
3⁄8" Size, 9⁄16" Drive			
1"	Steel Zinc	**1LB89**	100
1¼"	Steel Zinc	**1LB90**	100
1½"	18-8 SS Plain	**3AWT5**	25
	Steel Zinc	**1LB91**	100
	Steel Galv	**1LE51**	100
	Steel Zinc	**32TK50**	500
	Steel Galv	**32TK72**	500
1¾"	18-8 SS Plain	**3AWU6**	25
	Steel Zinc	**1LB92**	100
2"	18-8 SS Plain	**3AWT8**	25
	18-8 SS Plain	**32TK86**	375
	Steel Zinc	**1LB93**	100
	Steel Galv	**1LE52**	100
	Steel Zinc	**32TK51**	400
	Steel Galv	**32TK73**	400
2½"	18-8 SS Plain	**1VB63**	25
	Steel Zinc	**1LB94**	50
	Steel Galv	**1LE53**	50
	Steel Zinc	**32TK52**	300
	Steel Galv	**32TK74**	350
3"	18-8 SS Plain	**3AWX6**	10
	18-8 SS Plain	**32TK87**	270
	Steel Zinc	**1LB95**	50
	Steel Galv	**1LE54**	50
	Steel Zinc	**32TK53**	250
	Steel Galv	**32TK75**	300
3½"	18-8 SS Plain	**3AWX9**	10
	Steel Zinc	**1LB96**	50
	Steel Galv	**1LE55**	50
	Steel Zinc	**32TK54**	250
	Steel Galv	**32TK76**	250
4"	18-8 SS Plain	**3AWU7**	10
	Steel Zinc	**1LB97**	50
	Steel Galv	**1LE56**	50
	Steel Zinc	**32TK55**	200
	Steel Galv	**32TK77**	200
4½"	18-8 SS Plain	**3AWU3**	10
	Steel Zinc	**1LB98**	50
	Steel Galv	**1LE57**	50
	Steel Zinc	**32TK56**	200
5"	18-8 SS Plain	**3AWT9**	10
	Steel Zinc	**1LB99**	50
	Steel Galv	**1LE58**	50
	Steel Zinc	**32TK57**	150
	Steel Galv	**32TK78**	150
6"	18-8 SS Plain	**3AWY2**	5
	Steel Zinc	**1LE10**	50
	Steel Galv	**1LE59**	50
	Steel Zinc	**32TK58**	150
	Steel Galv	**32TK79**	150
7"	Steel Zinc	**1LE11**	50
	Steel Galv	**1LE60**	50
8"	Steel Zinc	**1LE12**	50
	Steel Galv	**1LE61**	50
10"	Steel Galv	**31JD96**	50
½" Size, ¾" Drive			
1½"	Steel Zinc	**1LE13**	50
	Steel Zinc	**32TK59**	200
2"	18-8 SS Plain	**31JE11**	25
	Steel Zinc	**1LE14**	50
	Steel Galv	**1LE62**	50
	Steel Zinc	**32TK60**	200
2½"	18-8 SS Plain	**31JE12**	25
	Steel Zinc	**1LE15**	50
	Steel Galv	**1LE63**	50
	Steel Zinc	**32TK61**	150
3"	18-8 SS Plain	**31JE13**	10
	Steel Zinc	**1LE16**	50
	Steel Galv	**1LE64**	50
	Steel Galv	**32TK80**	150
3½"	18-8 SS Plain	**31JE14**	10
	Steel Zinc	**1LE17**	25
	Steel Galv	**1LE65**	25
	Steel Zinc	**32TK62**	125
	Steel Galv	**32TK81**	125
4"	18-8 SS Plain	**31JE15**	10
	Steel Zinc	**1LE18**	25
	Steel Galv	**1LE66**	25
	Steel Zinc	**32TK63**	125
	Steel Galv	**32TK82**	125
4½"	18-8 SS Plain	**3AWY6**	5
	Steel Zinc	**1LE19**	25
	Steel Galv	**1LE67**	25
5"	18-8 SS Plain	**3AWU8**	5
	Steel Zinc	**1LE20**	25
	Steel Galv	**1LE68**	25
	Steel Zinc	**32TK64**	100
	Steel Galv	**32TK83**	100
6"	18-8 SS Plain	**3AWT6**	5
	Steel Zinc	**1LE21**	25
	Steel Galv	**1LE69**	25
	Steel Zinc	**32TK65**	75
	Steel Galv	**32TK84**	75
7"	Steel Zinc	**1LE22**	25
	Steel Galv	**1LE70**	25
8"	Steel Zinc	**1LE23**	25
	Steel Galv	**1LE71**	25
9"	Steel Galv	**31JD97**	10
10"	Steel Galv	**31JD98**	10
12"	Steel Galv	**31JD99**	5
14"	Steel Galv	**31JE02**	5
5⁄8" Size, 15⁄16" Drive			
3"	Steel Zinc	**1LE24**	25
	Steel Galv	**1LE72**	25
3½"	Steel Galv	**31JE03**	25
4"	Steel Zinc	**1LE25**	25
	Steel Galv	**1LE73**	25
5"	Steel Zinc	**1LE26**	25
	Steel Galv	**1LE74**	25
6"	Steel Zinc	**31JD89**	25
	Steel Galv	**31JE04**	25
7"	Steel Zinc	**1LE27**	25
	Steel Galv	**1LE75**	25
8"	Steel Zinc	**31JD90**	10
	Steel Galv	**31JE05**	10
10"	Steel Zinc	**31JD91**	5
	Steel Galv	**31JE06**	5
¾" Size, 1⅛" Drive			
3"	Steel Zinc	**1LE28**	20
4"	Steel Zinc	**1LE29**	20
	Steel Galv	**1LE76**	20
5"	Steel Zinc	**1LE30**	20
6"	Steel Zinc	**1LE31**	20
	Steel Galv	**1LE78**	20
7"	Steel Zinc	**31JD92**	10
	Steel Galv	**31JE07**	10
8"	Steel Zinc	**31JD93**	10
	Steel Galv	**31JE08**	10
10"	Steel Zinc	**31JD94**	5
	Steel Galv	**31JE09**	5
12"	Steel Zinc	**31JD95**	2
	Steel Galv	**31JE10**	2



Hex Washer-Head Timber Screws

L	Driver Size	Item No.	Pkg. Qty.
3⁄8" Size, Hex Washer Head			
316 Stainless Steel Corrugated			
4"	5⁄16"	**20YR72**	20
5"	5⁄16"	**20YR73**	10
6"	5⁄16"	**20YR74**	10
Carbon Steel Double-Barrier Coating			
3"	5⁄16"	**20YR76**	12
	5⁄16"	**20YR77**	50
4"	5⁄16"	**20YR78**	12
	5⁄16"	**20YR79**	50
6"	5⁄16"	**20YR80**	12
	5⁄16"	**20YR81**	50
8"	5⁄16"	**20YR82**	12
	5⁄16"	**20YR83**	50
7⁄32" Size, Flat Head			
4"	T40	**20YR89**	50
5"	T40	**20YR90**	12
	T40	**20YR91**	50
6"	T40	**20YR92**	12
	T40	**20YR93**	50
8"	T40	**20YR95**	50



No. 31JH20

Multimaterial Steel Screws

L	Material	Head Type	Item No.
#6 Size, #2 Driver			
¾"	Steel Zinc	Flat	31JH20
	Steel Yellow Zinc	Flat	31JH60
	Steel Zinc	Pan	31JH86
1"	Steel Zinc	Flat	31JH21
	Steel Yellow Zinc	Flat	31JH61
	305 SS Plain	Flat	31JH72
	Steel Zinc	Pan	31JH87
1¼"	Steel Zinc	Flat	31JH22
	Steel Yellow Zinc	Flat	31JH62
	305 SS Plain	Flat	31JH73
	Steel Zinc	Pan	31JH88
1½"	Steel Zinc	Flat	31JH23
	305 SS Plain	Flat	31JH74
	Steel Zinc	Pan	31JH89
1¾"	Steel Zinc	Flat	31JH24
	Steel Zinc	Pan	31JH90
2"	Steel Zinc	Flat	31JH25
	Steel Zinc	Pan	31JH91
#8 Size, #2 Driver			
⅝"	Steel Zinc	Flat	31JH26
	Steel Zinc	Pan	31JH92
¾"	Steel Zinc	Flat	31JH27
	Steel Yellow Zinc	Flat	31JH63
	Steel Zinc	Pan	31JH93
1"	Steel Zinc	Flat	31JH28
	Steel Yellow Zinc	Flat	31JH64
	305 SS Plain	Flat	31JH75
	Steel Zinc	Pan	31JH94
1¼"	Steel Zinc	Flat	31JH29
	Steel Yellow Zinc	Flat	31JH65
	305 SS Plain	Flat	31JH76
	Steel Zinc	Pan	31JH95
1½"	Steel Zinc	Flat	31JH30
	Steel Yellow Zinc	Flat	31JH66
	305 SS Plain	Flat	31JH77
	Steel Zinc	Pan	31JH96
1¾"	Steel Zinc	Flat	31JH31
	Steel Zinc	Pan	31JH97
2"	Steel Zinc	Flat	31JH32
	Steel Yellow Zinc	Flat	31JH67
	305 SS Plain	Flat	31JH78
	Steel Zinc	Pan	31JH98
2½"	Steel Zinc	Flat	31JH33
	305 SS Plain	Flat	31JH79
	Steel Zinc	Pan	31JH99
3"	305 SS Plain	Flat	31JH80
#8 Size, T20 Driver			
1¼"	Steel Yellow Zinc	Flat	31JJ06
	305 SS Plain	Flat	31JJ14
1½"	Steel Yellow Zinc	Flat	31JJ07
	305 SS Plain	Flat	31JJ15
2"	Steel Yellow Zinc	Flat	31JJ08
	305 SS Plain	Flat	31JJ16
2½"	Steel Yellow Zinc	Flat	31JJ09
	305 SS Plain	Flat	31JJ17
#9 Size, T20 Driver			
2½"	Steel Yellow Zinc	Flat	31JJ10
	305 SS Plain	Flat	31JJ18
3 ¼"	Steel Yellow Zinc	Flat	31JJ11
	305 SS Plain	Flat	31JJ19

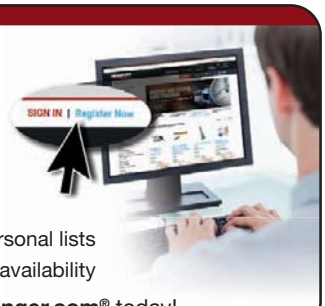
L	Material	Head Type	Item No.
#10 Size, #2 Driver			
¾"	Steel Zinc	Flat	31JH34
	Steel Zinc	Pan	31JJ01
1"	Steel Zinc	Flat	31JH35
	Steel Zinc	Pan	31JJ02
1¼"	Steel Zinc	Flat	31JH36
	Steel Zinc	Pan	31JJ03
	Steel Zinc	Flat	31JH37
1½"	305 SS Plain	Flat	31JH81
	Steel Zinc	Pan	31JJ04
	Steel Zinc	Flat	31JH38
2"	Steel Yellow Zinc	Flat	31JH68
	305 SS Plain	Flat	31JH82
	Steel Zinc	Pan	31JJ05
2½"	Steel Zinc	Flat	31JH39
	305 SS Plain	Flat	31JH83
	Steel Zinc	Flat	31JH40
3"	Steel Yellow Zinc	Flat	31JH69
	305 SS Plain	Flat	31JH84
3½"	Steel Zinc	Flat	31JH41
	305 SS Plain	Flat	31JH85
#10 Size, T20 Driver			
3"	Steel Yellow Zinc	Flat	31JJ12
	305 SS Plain	Flat	31JJ20
3½"	Steel Yellow Zinc	Flat	31JJ13
	305 SS Plain	Flat	31JJ21
#12 Size, #3 Driver			
¾"	Steel Zinc	Flat	31JH42
1"	Steel Zinc	Flat	31JH43
1¼"	Steel Zinc	Flat	31JH44
1½"	Steel Zinc	Flat	31JH45
1¾"	Steel Zinc	Flat	31JH46
2"	Steel Zinc	Flat	31JH47
2½"	Steel Zinc	Flat	31JH48
3"	Steel Zinc	Flat	31JH49
	Steel Yellow Zinc	Flat	31JH70
3½"	Steel Zinc	Flat	31JH50
#14 Size, #3 Driver			
1"	Steel Zinc	Flat	31JH51
1¼"	Steel Zinc	Flat	31JH52
1½"	Steel Zinc	Flat	31JH53
2"	Steel Zinc	Flat	31JH54
2½"	Steel Zinc	Flat	31JH55
3"	Steel Zinc	Flat	31JH56
	Steel Yellow Zinc	Flat	31JH71
3½"	Steel Zinc	Flat	31JH57
4"	Steel Zinc	Flat	31JH58
4¾"	Steel Zinc	Flat	31JH59

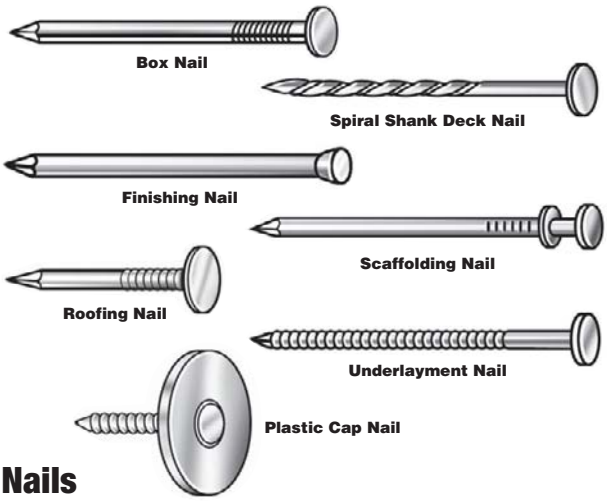
REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!





Nails

Length Key	3d	4d	6d	8d	10d	12d	16d	20d
X	1¼"	1½"	2"	2½"	3"	3¼"	3½"	4"
Y	—	1⅜"	1⅞"	2⅜"	2⅞"	3⅛"	3¼"	3¾"
Z	—	—	—	2¼"	—	—	3"	—

Package Weight	Length Key	Size	Item No.
Box Nails-Hot Dipped Galvanized - Thinner Gauge Helps Prevent Splitting of Wood			
1 lb.	X	4d, 6d, 8d, 10d, 12d, 16d, 20d	H1777
5 lbs.	X	6d, 8d, 10d, 12d, 16d, 20d	H1778
30 lbs.	X	8d, 16d	H1779
Common Nails-Bright - For Indoor Framing Projects			
1 lb.	X	4d, 6d, 8d, 10d, 12d, 16d, 20d	H1780
5 lbs.	X	6d, 8d, 10d, 12d, 16d, 20d	H1781
30 lbs.	X	8d, 16d	H1782
Common Nails-Hot Galvanized - For Outdoor Framing Projects; Use with ACQ Lumber			
1 lb.	X	4d, 6d, 8d, 10d, 16d, 20d	H1786
5 lbs.	X	6d, 8d, 10d, 16d, 20d	H1787
30 lbs.	X	8d, 16d	H1788
Sprial Shank Deck Nails-Hot Galvanized - Ideal For Use with ACQ Lumber			
1 lb.	X	6d, 8d, 10d, 16d	H1789
5 lbs.	X		H1790
30 lbs.	X	8d, 16d	H1791
Finishing Nails-For Detailing Projects, Such as Molding, Flooring, Baseboards, Stairs, and Trim			
1 lb.	X	4d, 6d, 8d, 10d, 16d	H1795
5 lbs.	X		H1796
1 lb.	X		H1797
Hardwood Trim- Bright, For Interior Trim, Molding, Flooring, and Stairs			
1 lb.	X	3d, 4d, 6d, 8d	H1798
Sinker Nails - For Indoor Framing; Vinyl Coating Provides Extra Holding Power			
1 lb.	Y	4d, 6d, 8d, 10d, 12d, 16d, 20d	H1783
5 lb.	Y	6d, 8d, 10d, 12d, 16d, 20d	H1784
30 lb.	Y	8d, 16d	H1785
Scaffolding Nails- Recommended for Temporary Construction and Cement Forms			
5 lbs.	Z	8d, 16d	H1800

Package Weight	Length	Item No.
Roofing Nails-Electro Galvanized - For Fastening Asphalt Roof Shingles		
1 lb.	2½", 1", 1¼", 1½", 2"	H1792
5 lbs.	2½", 1", 1¼", 1½", 2"	H1793
30 lbs.	1¼", 1½"	H1794
Underlayment Nails-Annular Threads Ensure Maximum Holding Power		
1 lb.	1⅞", 1¼"	H1799
Plastic Cap Nails-Annular Threads Secure Anchor Roofing Felt, Sheathing, House Wrap, and Foam Insulation Board		
300 Pk Qty.	1", 1½", 2"	H1801
2000 Pk Qty.	1", 1½", 2"	H1802
Fluted Masonary Nails-Use in Attaching Furring Strips or Fastening Wood to Concrete		
1 lb.	3", ¾", 1", 1¼", 1½", 2", 2½"	H1803
5 lbs.	1½", 2½"	H1804
Drywall Nails-Phosphate Coated, For Attaching Drywall to Wood Studs		
1 lb.	1⅜", 1½"	H1805
5 lb.	1⅜", 1½"	H1806
Truss Nails-Hot Dipped Galvanized-For Fastening Joist Hangers and Framing Angles		
1 lb.	1¼", 1½"	H1807
5 lbs.	1¼", 1½"	H1808
Smooth Spikes-Bright, Use for Anchoring Landscaping Timbers or Railroad Ties		
5 lbs.	8", 10", 12"	H1809

Length	Gauge	Shank Type	Application	1 lb. Item No.	5 lb. Item No.
Roofing Nails 304 Stainless Steel					
1"	10	Annular-Ring	For Roofing	20YT16	—
Roofing Nails Stainless Steel					
1"	10	Annular-Ring	For Roofing	—	20YT15
1¼"	10	Annular-Ring	For Roofing	20YT18	20YT17
1½"	10	Annular-Ring	For Roofing	20YT20	20YT19
1½"	12	Annular-Ring	For General Purpose	20YT10	—
3"	9	Annular-Ring	For General Purpose	20YT06	20YT05

Socket Head Cap Screw Information



Standard
Features a relatively high cylindrical head with a recessed hexagonal socket. Use where maximum tensile strength is essential. See page 2113, 2114, 2115.



Button
Dome-shaped head has wider hex socket and lower profile than standard. Ideal for lighter applications with low limited clearance where loading capacity is not critical. See page 2121.



Flange
Projecting collar around bottom of head acts like a washer, dispersing the load on the bearing surface. Use when a wider bearing surface or a more-finished appearance is desired, and with thinner materials. Go to Grainger.com® and search for "Flange Socket Head Cap Screws."



Flat
Features an 82° countersunk flat head. Flush mounts so moving parts can pass over freely. Not ideal for applications that require optimal antifatigue properties. See page 2119.



Low
Head height is 50% lower than standard size; socket size is smaller. Used in thinner materials and where clearance is too limited to use a full-height cap screw. Cannot withstand the same preloads and standard socket-head cap screws. See page 2121.



Vented
A small hole drilled through the entire length of the cap screw allows gas and fluids to vent. See page 2115.



GRAINGER APPROVED | ITW Bee Leitzke | Kerr Lakeside Inc.

Socket Head Cap Screw Refills and Assortments

No. of Pieces	Head Type	No. of Sizes	Includes	System of Measurement	Item No.
GA					
Steel Black Oxide					
169	Hex Socket	24	(10) Each: M4-0.70 x 10mm, x12mm, x16mm, M5-0.80 x 12mm, x16mm, x20mm, M6-1.00 x 12mm, (8) Each: M5-0.80 x 30mm, M6-1.00 x 16mm, x20mm, x25mm, (6) Each: M6-1.00 x 30mm, x40mm, x45mm, x50mm, M8-1.25 x 20mm, (5) Each: M8-1.25 x 25mm, x30mm, x40mm, x50mm, x60mm, (4) Each: M10-1.50 x 25mm, x30mm, x35mm, and Metal Container	Metric	**53WP99**
Itw Bee Leitzke					
Alloy Steel Plain					
106	—	9	25 Each 8-32 x ½, 10-24 x ½, 20 Each 10-24 x 1, 10 Each ¼-20 x ½, ¼-20 x 1, 5 Each 5⁄16-18 x 1, 5⁄16-18 x 1 ½, 3 Each ⅜-16 x 1, ⅜-16 x 1 ½	Inch	**3KZC9**
Kerr Lakeside					
Steel Black Oxide					
170	Socket	12	(20) Each: 6-32X1/2", 8-32X1/2", 10-24X1/2", X3/4", X1", (10) Each: ¼-20X1/2", X3/4", X1", 5⁄16-18X1", X1-1/2", ⅜-16X1", X1-1/2", And Plastic Case	Inch	**13E070**
300	Button	12	(25) Each: 6-32X3/8", X1/2", 8-32X3/8", X1/2", 10-24X3/8", X1/2", X3/4", ¼-20X1/2", X3/4", X1", 5⁄16-18X3/4", X1", and Plastic Case	Inch	**13E071**
300	Flat	12	(25) Each: 6-32x3/8", 6-32x1/2", 8-32x3/8", 8-32x1/2", 10-24x3/8", 10-24x1/2", 10-24x3/4", ¼-20x1/2", ¼-20x3/4", ¼-20x1", 5⁄16-18x3/4", 5⁄16-18x1", Plastic Case	Inch	**13E072**



Socket-Head Cap Screw Assortments and Refills

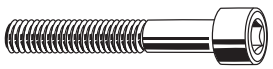
No. of Pieces	Head Type	No. of Sizes	Includes	Item No.
Alloy Steel Chrome				
120	Flat	24	(5) Each: 8-32x1/2", x5/8", x3/4", 10-24x1/2", x3/4", 10-32x3/8", x1/2", x3/4", ¼-20x1/2", x5/8", x3/4", x1", x1-1/4", 5⁄16-18x1/2", x5/8", x3/4", x1", x1-1/4", 5⁄16-24x5/8", x3/4", x1", ⅜-16x3/4", x1", ⅜-24x1", Plastic Container	**4GUX4**
Alloy Steel Polished Chrome				
120	Standard	24	(5) Each: ¼-28x5/8", x3/4", x7/8", x1", x1-1/4", x1-1/2", x1-3/4", x2", x2-1/4", 5⁄16-24x5/8", x3/4", x7/8", x1", x1-1/4", x1-1/2", x1-3/4", x2", x2-1/4", ⅜-24x3/4", x1", x1-1/4", x1-1/2", x1-3/4", x2", Plastic Container	**4GUX8**
120	Standard	24	(5) Each: ¼-20x5/8", x3/4", x7/8", x1", x1-1/4", x1-1/2", x1-3/4", x2", x2-1/4", 5⁄16-18x5/8", x3/4", x7/8", x1", x1-1/4", 1½", x1-3/4", x2", x2-1/4", ⅜-16x3/4", x1", x1-1/4", x1-1/2", x1-3/4", x2", Plastic Container	**2FUA1**
120	Button	24	(5) Each: 8-32x1/2", x5/8", x3/4", 10-24x1/2", 10-32x1/2", x3/4", x1", ¼-20x3/4", x7/8", x1", ¼-28x1/2", x3/4", x1", 5⁄16-18x1/2", x3/4", x1", 5⁄16-24x3/8", x1/2", x1", ⅜-16x3/4", x1", ⅜-24x3/4", x1", Plastic Container	**2FUH5**

Dia./Thread Size	L	Item No.
Refills for No. 2FUA1		
¼-20	5⁄8"	**2FUF4**
¼-20	¾"	**2FUB3**
¼-20	⅞"	**2JGF7**
¼-20	1"	**2FUP4**
¼-20	1¼"	**2FUL4**
¼-20	1½"	**2FUF5**
¼-20	1¾"	**2FUB4**
¼-20	2"	**2FUT2**
¼-20	2¼"	**2FUL5**
5⁄16-18	5⁄8"	**2FUP5**
5⁄16-18	¾"	**2FUT3**
5⁄16-18	⅞"	**2FUP6**
5⁄16-18	1"	**2FUG9**
5⁄16-18	1¼"	**2FUL6**
5⁄16-18	1½"	**2FUD1**
5⁄16-18	1¾"	**2FUH1**
5⁄16-18	2"	**2FUT4**
5⁄16-18	2¼"	**2FUT5**
⅜-16	¾"	**2FUD2**
⅜-16	1"	**2FUL7**
⅜-16	1¼"	**2JGF9**
⅜-16	1½"	**2FUT6**
⅜-16	1¾"	**2FUP7**
⅜-16	2"	**2FUL8**

Dia./Thread Size	L	Item No.
Refills for No. 2FUH5		
#8-32	½"	**2FUJ6**
#8-32	5⁄8"	**2FUL2**
#8-32	¾"	**2FUP3**
#10-24	½"	**2JGF6**
#10-32	½"	**2FUJ7**
#10-32	¾"	**2FUT1**
#10-32	1"	**2FUG4**
¼-20	5⁄8"	**2FUA7**
¼-20	¾"	**2FUJ8**
¼-20	⅞"	**2FUF1**
¼-20	1"	**2FUA9**
¼-28	½"	**2FUB2**
¼-28	¾"	**2FUJ9**
¼-28	1"	**2FUG8**
5⁄16-18	½"	**2FUG5**
5⁄16-18	¾"	**2FUG6**
5⁄16-18	1"	**2FUG7**
5⁄16-24	⅜"	**2JGF5**
5⁄16-24	½"	**2FUL3**
5⁄16-24	1"	**2FUF2**
⅜-16	¾"	**2FUB1**
⅜-16	1"	**2FUA8**
⅜-24	¾"	**2FUF3**
⅜-24	1"	**2JGF8**

Dia./Thread Size	L	Item No.
Refills for No. 4GUX4		
#8-32	½"	**4GUY1**
#8-32	5⁄8"	**4GUY2**
#8-32	¾"	**4GUY3**
#10-24	½"	**4GUY4**
#10-24	¾"	**4GUY5**
#10-32	⅜"	**4GUY6**
#10-32	½"	**4GUY7**
#10-32	¾"	**4GUY8**
¼-20	½"	**4GUY9**
¼-20	5⁄8"	**4GUZ1**
¼-20	¾"	**4GUZ2**
¼-20	1"	**4GUZ3**
¼-20	1¼"	**4GUZ4**
5⁄16-18	½"	**4GUZ5**
5⁄16-18	⅜"	**4GUZ6**
5⁄16-18	¾"	**4GUZ7**
5⁄16-18	1"	**4GUZ8**
5⁄16-18	1¼"	**4GUZ9**
5⁄16-24	½"	**4GVA1**
5⁄16-24	¾"	**4GVA2**
5⁄16-24	1"	**4GVA3**
⅜-16	¾"	**4GVA4**
⅜-16	1"	**4GVA5**
⅜-24	1"	**4GVA6**

Dia./Thread Size	L	Item No.
Refills for No. 4GUX8		
¼-28	5⁄8"	**4GVG3**
¼-28	¾"	**4GVG4**
¼-28	⅞"	**4GVG5**
¼-28	1"	**4GVG6**
¼-28	1¼"	**4GVG7**
¼-28	1½"	**4GVG8**
¼-28	1¾"	**4GVG9**
¼-28	2"	**4GVH1**
¼-28	2¼"	**4GVH2**
5⁄16-24	⅝"	**4GVH3**
5⁄16-24	¾"	**4GVH4**
5⁄16-24	⅞"	**4GVH5**
5⁄16-24	1"	**4GVH6**
5⁄16-24	1¼"	**4GVH7**
5⁄16-24	1½"	**4GVH8**
5⁄16-24	1¾"	**4GVH9**
5⁄16-24	2"	**4GVJ1**
5⁄16-24	2¼"	**4GVJ2**
⅜-24	¾"	**4GVJ3**
⅜-24	1"	**4GVJ4**
⅜-24	1¼"	**4GVJ5**
⅜-24	1½"	**4GVJ6**
⅜-24	1¾"	**4GVJ7**
⅜-24	2"	**4GVJ8**



Socket-Head Cap Screws

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 0.050" Drive						
1/8"	1GE84	100	6ZA54	100	5TAP8	100
1/4"	1GE87	100	6ZA56	100	5TAR0	100
3/8"	1GE89	100	6ZA58	100	5TAR1	100
1/2"	1GE90	100	22TW39	100	—	—
5/8"	22TW94	100	22TW40	100	—	—
3/4"	22TW95	100	26KV97	100	—	—
1"	22TW96	100	26KV98	100	—	—
#1-64 Thread, 1/16" Drive						
1/4"	26KV17	100	26KT25	100	—	—
3/8"	26KV19	100	26KT27	100	—	—
1/2"	26KV20	100	26KT28	100	—	—
5/8"	26KV21	100	26KT29	100	—	—
3/4"	26KV22	100	26KT30	100	—	—
1"	—	—	26KT31	100	—	—
#1-64 Thread, 5/32" Drive						
1"	29DP85	100	—	—	—	—
#1-72 Thread, 1/16" Drive						
1/8"	1GE94	100	6ZA61	100	—	—
	—	—	33W050	10	—	—
1/4"	1GE96	100	6ZA63	100	5TAR2	100
3/8"	1GE98	100	6ZA64	100	5TAR3	100
1/2"	22TW97	100	26KV99	100	—	—
5/8"	26KX93	100	26KW01	100	—	—
3/4"	26KX94	100	26KW02	100	—	—
1"	26KX95	100	26KW03	100	—	—
#2-56 Thread, 3/64" Drive						
1/8"	1GU10	100	22TP70	100	—	—
1/4"	6XA33	100	4XB85	100	5TAG2	100
3/8"	6XA35	100	6ZA68	100	5TAG3	100
1/2"	6XA37	100	6ZA70	100	5TAG4	100
5/8"	6XA39	100	22TP71	100	—	—
3/4"	6XA40	100	22TP72	100	—	—
7/8"	1GU12	100	22TP73	100	—	—
1"	1GU13	100	22TP74	100	—	—
1 1/4"	22TT57	100	—	—	—	—
1 1/2"	22TT58	100	—	—	—	—
#2-64 Thread, 5/64" Drive						
1/8"	—	—	26KW04	100	—	—
1/4"	26KX97	100	26KW06	100	—	—
3/8"	26KX99	100	26KW07	100	—	—
1/2"	26KY01	100	26KW08	100	—	—
5/8"	26KY02	100	26KW09	100	—	—
3/4"	26KY03	100	26KW10	100	—	—
1"	26KY04	100	26KW11	100	—	—
#3-48 Thread, 5/64" Drive						
1/8"	26KV23	100	26KT32	100	—	—
1/4"	1GU17	100	6ZA82	100	5TAG6	100
3/8"	1GU18	100	6ZA84	100	5TAG7	100
1/2"	1GU19	100	6ZA86	100	5TAG8	100
5/8"	22TT59	100	26KT34	100	—	—
3/4"	22TT60	100	22TP75	100	—	—
7/8"	26KV25	100	26KT35	100	—	—
1"	22TT61	100	26KT36	100	—	—
#3-56 Thread, 5/64" Drive						
1/8"	—	—	26KW12	100	—	—
1/4"	26KY06	100	26KW14	100	—	—
3/8"	26KY08	100	26KW16	100	—	—
1/2"	26KY09	100	26KW17	100	—	—
5/8"	26KY10	100	26KW18	100	—	—
3/4"	26KY11	100	26KW19	100	—	—
1"	26KY12	100	26KW20	100	—	—
#4-40 Thread, 3/32" Drive						
1/8"	1GU23	100	5MXY4	100	—	—
3/16"	1GU24	100	6ZA92	100	5TAG9	100
1/4"	6XA41	100	4XB86	100	5TAH0	100
5/16"	6XA42	100	6ZA94	100	5TAH1	100
3/8"	5UGX4	100	4XB87	100	5TAH2	100
1/2"	6XA45	100	4XB88	100	5TAH3	100
5/8"	6XA47	100	6ZA98	100	5TAH4	100
3/4"	6XA48	100	4XB89	100	5TAH5	100
7/8"	5UGX5	100	6ZB10	100	5TAH6	100
1"	1GU25	100	4XB90	100	5TAH7	100
1 1/4"	5WEH2	100	6ZB12	100	5TAH8	100
1 1/2"	5WEH3	100	—	—	5TAH9	100
1 3/4"	22TT64	100	22TP76	100	—	—
2"	22TT65	100	22TP77	100	—	—
#4-48 Thread, 3/32" Drive						
1/4"	22TW98	100	26KW23	100	—	—
3/8"	22TW99	100	6ZB23	100	—	—
1/2"	22TX01	100	26KW26	100	—	—
5/8"	26KY15	100	26KW27	100	—	—
3/4"	26KY16	100	26KW28	100	—	—
7/8"	—	—	26KW29	100	—	—
1"	26KY17	100	22TW41	100	—	—
#5-40 Thread, 3/32" Drive						
1/8"	26KV26	100	6ZB27	100	—	—
3/16"	22TT66	100	6ZB29	100	—	—
1/4"	5WEF2	100	6ZB31	100	5TAJ0	100
5/16"	26KV27	100	6ZB33	100	—	—
3/8"	6XA50	100	6ZB35	100	5TAJ1	100
1/2"	6XA51	100	6ZB37	100	5TAJ2	100
5/8"	6XA52	100	6ZB39	100	5TAJ3	100
3/4"	22TT67	100	6ZB41	100	5TAJ4	100
7/8"	26KV28	100	22TP78	100	—	—
1"	22TT68	100	—	—	5TAJ5	100
1 1/4"	22TT69	100	22TP79	100	—	—
1 1/2"	—	—	22TP80	100	—	—

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
#5-44 Thread, 3/32" Drive						
1/4"	26KY19	100	26KW30	100	—	—
3/8"	26KY21	100	26KW31	100	—	—
1/2"	26KY22	100	26KW32	100	—	—
5/8"	26KY23	100	26KW33	100	—	—
3/4"	26KY24	100	26KW34	100	—	—
1"	26KY25	100	—	—	—	—
#6-32 Thread, 7/64" Drive						
1/8"	1GU42	50	33W053	100	—	—
1/4"	6XA54	100	4XB91	100	5TAJ6	100
3/8"	6XA56	100	4XB92	100	5TAJ7	100
1/2"	6XA58	100	4XB93	100	5TAJ8	100
5/8"	6XA60	100	4XB94	100	5TAJ9	100
3/4"	6XA61	100	4XB95	100	5TAK0	100
7/8"	5UGX6	100	6ZB58	100	5TAK1	100
1"	6XA63	100	4XB96	100	5TAK2	100
1 1/4"	6XA64	100	4XB97	100	5TAK3	100
1 1/2"	6XA65	100	4XB98	100	5TAK4	100
1 3/4"	23NN74	100	22TP81	100	5TAK5	100
2"	23NN75	100	22TP84	100	5TAK6	100
2 1/4"	22TT71	100	26KT44	100	—	—
2 1/2"	22TT72	100	22TP82	100	—	—
#6-40 Thread, 7/64" Drive						
1/4"	22TX02	100	5MXY6	100	5TAR4	100
3/8"	5WEF4	100	5MXY7	100	5TAR5	100
1/2"	22TX03	100	6ZB74	100	5TAR6	100
5/8"	26KY28	100	6ZB76	100	5TAR7	100
3/4"	26KY29	100	5MXY8	100	5TAR8	100
7/8"	—	—	5MXY9	100	—	—
1"	26KY30	100	26KW38	100	—	—
	—	—	33W055	100	—	—
1 1/4"	26KY31	100	33W056	100	—	—
1 1/2"	—	—	33W057	100	—	—
2"	—	—	33W058	50	—	—
#8-32 Thread, 9/64" Drive						
1/8"	1GU49	25	5MXZ1	100	—	—
1/4"	6XA70	100	4XB99	100	5MHZ3	100
3/8"	6XA72	100	4XE10	100	5MHZ4	100
1/2"	5UGX8	100	4XE11	100	5MHZ5	100
5/8"	6XA76	100	4XE12	100	5MHZ6	100
3/4"	6XA77	100	4XE13	100	5MHZ7	100
7/8"	6XA78	100	6ZB93	100	5MHZ8	100
1"	6XA79	100	4XE14	100	5MHZ9	100
1 1/4"	5UGZ1	100	4XE15	100	5MJE3	100
1 1/2"	6XA83	100	4XE16	100	5MJE4	100
1 3/4"	23NN76	100	4XE17	100	—	—
2"	23NN77	100	—	—	5TAK8	100
2 1/4"	22TT75	100	22TP85	100	—	—
2 1/2"	22TT76	100	4XE18	100	5TAK9	100
2 3/4"	29DP86	100	22TP87	100	—	—
3"	22TT77	100	22TP88	100	—	—
3 1/2"	1GU51	1	6ZE13	25	—	—
#8-36 Thread, 9/64" Drive						
1/4"	26KY32	100	26KW39	100	—	—
3/8"	22TX04	100	5MXZ2	100	5TAR9	100
1/2"	22TX05	100	5MXZ3	100	5TAT0	100
5/8"	26KY33	100	26KW40	100	—	—
3/4"	22TX06	100	6ZE19	100	5TAT1	100
1"	26KY35	100	22TW42	100	—	—
1 1/4"	26KY36	100	26KW42	100	—	—
1 1/2"	—	—	22TW43	100	—	—
#10-24 Thread, 5/32" Drive						
1/4"	6XA89	100	4XE19	100	5TAL0	100
3/8"	6XA91	100	4XE20	100	5MJA0	100
7/16"	6XA92	100	26KT48	100	—	—
1/2"	6XA93	100	4XE21	100	5MJA1	100
5/8"	6XA94	100	4XE22	100	5MJA2	100
3/4"	6XA95	100	4XE23	100	5MJA3	100
7/8"	5UGY0	100	6ZE27	100	5MJA4	100
1"	—	—	4XE24	100	5MJA5	100
1 1/4"	6XA98	100	4XE25	100	5MJE5	100
1 1/2"	6XB10	100	4XE26	100	5MJE6	100
1 3/4"	6XB11	100	4XE27	100	5MJE7	100
2"	23NN78	100	4XE28	100	5MJE8	100
2 1/4"	22TT79	100	—	—	5TAL1	100
2 1/2"	23NN79	100	—	—	5TAL2	100
2 3/4"	—	—	5PPR5	100	—	—
	—	—	33W059	100	—	—
3"	23NN80	100	—	—	5TAL3	100
3 1/2"	22TT80	100	22TP94	100	—	—
4"	22TT81	100	22TP86	100	—	—
5"	1GU58	1	—	—	—	—
6"	1GU59	1	4KGW6	5	—	—
#10-32 Thread, 5/32" Drive						
1/4"	6XB17	100	4XU39	100	—	—
5/16"	6XB18	100	6ZE46	100	—	—
	—	—	33W060	100	—	—
3/8"	6XB19	100	1GA16	25	5MJA6	100
1/2"	6XB21	100	1GA17	25	5MJA7	100
5/8"	6XB23	100	1GA18	25	5MJA8	100
3/4"	6XB24	100	5PPG8	100	5MJA9	100
7/8"	5UGY1	100	1GA20	25	5MJC0	100
1"	6XB26	100	5MYL1	100	5MJC1	100
1 1/4"	6XB27	100	4XU46	100	5MJE9	100
1 1/2"	6XB29	100	4XU47	100	5MJF0	100
1 3/4"	6XB30	100	4XU48	100	5MJF1	100
2"	23NN89	100	4XU49	100	5MJF2	100
2 1/4"	23NN90	100	—	—	5TAT2	100

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
2 1/2"	23NN91	100	—	—	5TAT3	100
2 3/4"	22TX09	100	22TW53	100	—	—
3"	23NN92	100	—	—	5TAT4	100
3 1/4"	22TX10	100	26KW45	100	—	—
3 1/2"	22TX11	100	22TW55	100	—	—
4"	22TX12	100	22TW24	100	—	—
4 1/2"	1GU66	1	—	—	—	—
5"	1GU67	1	—	—	—	—
6"	1GU68	1	—	—	—	—
#12-24 Thread, 5/32" Drive						
3/8"	1GU69	10	6ZE62	50	—	—
1/2"	1GU70	10	6ZE64	50	—	—
3/4"	1GU71	10	—	—	—	—
1"	1GU72	10	6ZE66	25	—	—
1 1/4"	5WEF6	5	6ZE68	25	—	—
1 1/2"	5WEJ2	5	6ZE70	25	—	—
2"	—	—	6ZE73	25	—	—
1/4"-20 Thread, 3/16" Drive						
1/4"	5WEF7	50	4XE29	100	—	—
	—	—	5TAL4	100	—	—
3/8"	6XB37	100	4XE30	100	5MJC2	100
1/2"	6XB39	100	4XE31	100	5MJC3	100
5/8"	6XB40	100	4XE32	100	5MJC4	100
3/4"	6XB41	100	4XE33	100	5MJC5	100
7/8"	6XB42	100	4XE34	100	5MJC6	100
1"	6XB43	100	4XE35	100	5MJC7	100
1 1/4"	6XB44	100	4XE36	100	5MJC8	100
1 1/2"	22TT86	100	4XE37	100	5MJF3	100
1 3/4"	22TT87	100	5MYL3	100	5MJF4	100
2"	22TT88	50	22TP97	50	5MJF5	100
2 1/4"	22TT89	50	22TP98	50	5WZF1	100
2 1/2"	22TT90	50	22TP99	50	5WZF2	100
2 3/4"	23NN86	50	22TR01	50	5MJF6	100
3"	22TT91	25	22TR02	25	5MJF7	100
3 1/4"	22TT92	25	5MYC1	25	5TAL5	100
3 1/2"	22TT93	25	6ZE79	25	5WZF3	50
3 3/4"	22TT94	25	22TR05	25	—	—
4"	22TT95	25	6ZE83	25	5TAL6	100
4 1/2"	22TT96	25	22TR07	25	—	—
5"	22TT97	25	22TR08	25	—	—
	—	—	33W063	10	—	—
5 1/2"	1GU78	1	5MYC2	5	—	—
6"	1GU79	1	33W064	10	—	—
	—	—	6ZE93	5	—	—
1/4"-28 Thread, 3/16" Drive						
1/4"	1GU83	10	5MXZ5	50	—	—
	—	—	5RVG9	100	—	—
3/8"	22TX13	100	6ZE97	100	5MJC9	100
1/2"	22TX14	100	4XU50	100	5MJD0	100
5/8"	22TX15	100	4XU51	100	5MJD1	100
3/4"	22TX16	100	4XU52	100	5MJD2	100
7/8"	22TX17	100	—	—	5MJD3	100
1"	22TX18	100	5MYL2	100	5MJD4	100
1 1/4"	22TX19	100	4XU54	100	5MJD5	100
1 1/2"	22TX20	100	4XU55	100	5MJF8	100
1 3/4"	22TX21	100	1GA43	25	5MJF9	100
2"	22TX22	50	22TW58	50	5MJG0	100
2 1/4"	22TX23	50	22TW59	50	5MJG1	100
2 1/2"	22TX24	50	22TW60	50	—	—
	—	—	33W065	100	—	—
2 3/4"	—	—	22TW61	50	—	—
3"	22TX25	25	5MYC5	25	—	—
3 1/4"	—	—	26KW49	25	—	—
3 1/2"	22TX26	25	6ZU31	25	—	—
4"	22TX27	25	22TW64	25	—	—
4 1/2"	—	—	26KW50	25	—	—
5"	—	—	26KW51	25	—	—
5/16"-18 Thread, 1/4" Drive						
3/8"	22TT98	100	6ZU34	100	5TAL7	100
1/2"	6XB56	100	4XE44	100	40P215	100
5/8"	22TT99	100	4XE45	100	40P216	100
3/4"	22TU01	100	4XE46	100	40P217	100
7/8"	22TU02	100	4XE47	100	40P218	100
1"	22TU03	50	22TP89	50	40P219	100
1 1/4"	22TU04	50	22TP90	50	40P220	100
1 1/2"	22TU05	50	22TP91	50	40P221	100
1 3/4"	22TU06	50	22TR09	50	40P222	100
2"	22TU07	50	22TR10	50	40P223	100
2 1/4"	22TU08	25	22TR11	25	40P224	100
2 1/2"	22TU09	25	22TR12	25	40P225	100
2 3/4"	22TU10	25	22TR13	25	5MJG2	100
3"	22TU11	25	22TR14	25	5MJG3	100
3 1/4"	22TU12	25	6ZU37	25	5MJG4	50
3 1/2"	22TU13	25	22TR16	25	5MJG5	50
3 3/4"	22TU14	25	22TR17	25	—	—
	—	—	33W066	50	—	—
4"	22TU15	10	22TR18	10	5TAL8	50
4 1/2"	22TU16	10	5MYC6	10	—	—
5"	22TU17	10	22TR20	10	—	—
5 1/2"	29DP87	10	22TR21	10	—	—
6"	22TU18	10	22TR22	10	—	—
5/16"-24 Thread, 1/4" Drive						
3/8"	26KY39	100	26KW52	100	—	—
1/2"	22TX28	100	4XU56	100	—	—
	—	—	5TAT5	100	—	—
5/8"	26KY40	100	6ZU58	100	—	—
3/4"	22TX29	100	4XU57	100	—	—

CONTINUED

CONTINUED

Socket-Head Cap Screws

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
⅞"	22TX30	100	6ZU61	100	—	—
1"	22TX31	50	22TW30	50	5RVH3	100
1¼"	22TX32	50	22TW34	50	5RVH4	100
1½"	22TX33	50	22TW44	50	5RVH5	100
1¾"	22TX34	50	6ZU71	50	5RVH6	100
2"	22TX35	50	5MYC8	50	—	—
2¼"	22TX36	25	22TW45	25	5RVH8	100
2½"	22TX37	25	22TW46	25	5RVH9	100
2¾"	22TX38	25	22TW65	25	—	—
	—	—	33W068	100	—	—
3"	22TX39	25	22TW66	25	—	—
3¼"	—	—	26KW53	25	—	—
3½"	22TX40	25	22TW67	25	—	—
4"	22TX41	10	6ZU93	10	—	—
4½"	—	—	26KW54	10	—	—
5"	—	—	26KW55	10	—	—
6"	—	—	26KW57	10	—	—
⅜"-16 Thread, 5⁄16" Drive						
½"	22TU19	50	22TR23	50	5TAL9	100
⅝"	22TU20	50	22TR24	50	5TAN0	100
¾"	22TU21	50	22TR25	50	5TAN1	100
⅞"	22TU22	50	22TR26	50	—	—
	—	—	5TAN2	100	—	—
1"	22TU23	50	22TR27	50	—	—
	—	—	5TAN3	100	—	—
1⅛"	22TU24	50	22TR28	50	—	—
	—	—	33W069	100	—	—
1¼"	22TU25	50	22TR29	50	—	—
	—	—	5TAN4	100	—	—
1½"	22TU26	25	22TR31	25	—	—
	—	—	5TAN5	100	—	—
1¾"	22TU27	25	22TP92	25	5TAN6	50
2"	22TU28	25	22TR32	25	5TAN7	50
2¼"	22TU29	25	22TR33	25	5TAN8	50
2½"	22TU30	25	22TR34	25	5WZG5	50
2¾"	22TU31	25	22TR35	25	5MJG6	50
3"	5UHD0	10	22TR36	10	5MJG7	50
3¼"	22TU32	10	22TR37	10	5MJG8	50
3½"	22TU33	10	22TR38	10	5MJG9	50
3¾"	22TU34	10	22TR39	10	—	—
4"	22TU35	10	22TR40	10	5TAN9	50
4½"	22TU36	10	22TR41	10	5TAP0	50
5"	22TU37	10	22TR42	10	5TAP1	50
5½"	22TU38	10	22TR43	10	—	—
	—	—	33W070	50	—	—
6"	22TU39	10	22TR44	10	5TAP2	50
⅜"-24 Thread, 5⁄16" Drive						
½"	22TX42	50	6ZY36	50	5TAT6	100
⅝"	22TX43	50	6ZY39	50	5TAT7	100
¾"	22TX44	50	6ZY42	50	—	—
	—	—	5TAT8	100	—	—
⅞"	26KY41	50	6ZY46	50	5TAT9	100
1"	22TX45	50	22TW69	50	—	—
	—	—	5TAU0	100	—	—
1¼"	22TX46	50	6ZY49	50	—	—
	—	—	5TAU1	100	—	—
1½"	22TX47	25	22TW70	25	—	—
	—	—	5TAU2	100	—	—
1¾"	22TX48	25	22TW47	25	—	—
	—	—	5TAU3	50	—	—
2"	22TX49	25	22TW71	25	—	—
	—	—	5TAU4	50	—	—
2¼"	26KY42	25	22TW72	25	5RVJ0	50
2½"	22TX50	25	22TW73	25	5RVJ1	50
2¾"	26KY43	25	22TW74	25	—	—
3"	22TX51	10	5MYD5	10	5MJH0	50
3½"	22TX52	10	1HLH4	10	—	—
	—	—	33W071	50	—	—
4"	22TX53	10	22TW77	10	—	—
4½"	22TX54	10	22TW78	10	—	—
5"	22TX55	10	22TW79	10	—	—
5½"	—	—	22TW80	10	—	—
6"	22TX56	10	26KW62	10	—	—
7⁄16"-14 Thread, ⅜" Drive						
½"	—	—	6ZY71	25	—	—
⅝"	—	—	6ZY74	25	—	—
¾"	22TU42	25	22TR47	25	5TAP3	100
⅞"	—	—	22TR48	25	—	—
1"	22TU43	25	22TR49	25	5WZG7	100
1¼"	22TU44	25	22TR50	25	5WZG8	50
1½"	22TU45	25	22TR51	25	5WZG9	50
1¾"	22TU46	10	22TR52	10	5WZH0	50
2"	22TU47	10	6ZY89	10	5WZH1	50
2¼"	26KV34	10	6ZY92	10	5WZH2	50
2½"	22TU48	10	6ZY95	10	5WZH3	50
2¾"	—	—	6ZY98	10	5RVA4	25
3"	22TU49	10	3MB66	10	5RVA5	25
3¼"	—	—	22TP93	5	—	—
3½"	22TU50	5	22TR03	5	5TAP4	25
4"	22TU51	5	22TR04	5	5TAP5	25
4½"	—	—	22TR15	5	—	—
5"	—	—	22TR19	5	—	—
5½"	—	—	26KT61	5	—	—
6"	—	—	26KT62	5	—	—
7⁄16"-20 Thread, ⅜" Drive						
½"	—	—	26KW63	25	—	—
⅝"	—	—	26KW64	25	—	—
¾"	—	—	26KW65	25	—	—
⅞"	—	—	26KW66	25	—	—

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
1"	22TX57	25	3MB89	25	—	—
1¼"	22TX58	25	3MB93	25	—	—
1½"	22TX59	25	3MB97	25	5RVJ4	50
1¾"	—	—	26KW67	10	—	—
	—	—	33W076	50	—	—
2"	22TX60	10	3KB78	10	—	—
2½"	—	—	22TW82	10	—	—
	—	—	33W077	50	—	—
3"	—	—	3KE73	10	—	—
	—	—	33W078	25	—	—
3½"	—	—	22TW48	5	—	—
4"	—	—	26KW68	5	—	—
5"	—	—	26KW69	5	—	—
6"	—	—	26KW70	5	—	—
½"-13 Thread, ⅜" Drive						
½"	22TU52	10	22TR45	10	5TAP6	50
⅜"	1GY67	10	22TR46	10	5TAP7	50
¾"	24T805	10	22TR54	10	—	—
	—	—	5RVA6	50	—	—
⅞"	6XB93	10	22TR55	10	—	—
1"	6XB94	10	29DU64	10	—	—
	—	—	5RVA8	50	—	—
1¼"	6XB95	10	22TR57	10	5RVA9	50
1½"	6XB96	10	22TR59	10	—	—
	—	—	5RVC0	50	—	—
1¾"	6XB97	10	22TR60	10	—	—
	—	—	5RVC1	50	—	—
2"	22TU53	10	22TR61	10	—	—
	—	—	5RVC2	50	—	—
2¼"	22TU54	10	22TR62	10	—	—
	—	—	5RVC3	25	—	—
2½"	22TU55	10	22TR63	10	—	—
	—	—	5RVC4	25	—	—
2¾"	22TU56	10	22TR64	10	5MJH1	25
3"	6XE12	5	29DU65	5	5MJH2	25
3¼"	5WEE1	5	22TR66	5	—	—
	—	—	5RVC5	25	—	—
3½"	6XE14	5	22TR67	5	—	—
	—	—	5RVC6	25	—	—
4"	6XE15	5	22TR69	5	—	—
	—	—	5RVC7	25	—	—
4½"	5WEE2	5	22TR70	5	5RVC8	25
5"	5WEE3	5	22TR71	5	—	—
	—	—	5RVC9	25	—	—
5½"	6XE18	5	22TR72	5	5MJH3	25
6"	5WEE4	5	22TR73	5	5RVD0	25
½"-20 Thread, ⅜" Drive						
½"	—	—	22TW83	10	—	—
⅝"	—	—	26KW71	10	—	—
¾"	22TX61	10	22TW84	10	—	—
⅞"	—	—	26KW72	10	—	—
1"	22TX62	10	3KU67	10	—	—
	—	—	5RVJ6	50	—	—
1¼"	22TX63	10	3FY64	10	—	—
	—	—	5RVJ7	50	—	—
1½"	22TX64	10	3FY69	10	—	—
	—	—	5RVJ8	50	—	—
1¾"	22TX65	10	3FY74	10	—	—
	—	—	5RVJ9	50	—	—
2"	22TX66	10	3FY78	10	—	—
	—	—	5RVK0	50	—	—
2¼"	26KY44	10	3FA70	10	—	—
	—	—	5RVK1	25	—	—
2½"	22TX67	10	5MYD7	10	—	—
	—	—	5RVK2	25	—	—
3"	22TX68	5	22TW50	5	—	—
	—	—	5RVK3	25	—	—
3½"	22TX69	5	4FA69	5	—	—
4"	22TX70	5	3WB77	5	—	—
4½"	22TX71	5	3WE12	5	—	—
5"	22TX72	5	3WE46	5	—	—
5½"	—	—	3XA98	5	—	—
6"	22TX73	5	22TW90	5	—	—
5⁄16"-12 Thread, 7⁄16" Drive						
1"	29DP88	10	26KT64	10	—	—
1½"	29DP89	10	22TR76	10	—	—
2"	—	—	26KT67	5	—	—
2½"	29DP91	5	26KT68	5	—	—
3"	29DP92	5	26KT70	5	—	—
3½"	—	—	22TR78	5	—	—
4"	—	—	26KT71	5	—	—
4½"	—	—	26KT72	5	—	—
5"	—	—	26KT73	5	—	—
5½"	—	—	26KT74	5	—	—
6"	—	—	26KT75	5	—	—
5⁄16"-18 Thread, 7⁄16" Drive						
1"	—	—	26KW79	10	—	—
1¼"	—	—	26KW80	10	—	—
1½"	—	—	26KW81	10	—	—
1¾"	—	—	26KW82	10	—	—
2"	—	—	26KW83	5	—	—
2¼"	—	—	26KW84	5	—	—
2½"	—	—	26KW85	5	—	—
3"	—	—	26KW86	5	—	—
4"	—	—	26KW87	5	—	—
4½"	—	—	26KW88	5	—	—
5"	—	—	26KW89	5	—	—
5½"	—	—	26KW90	5	—	—
6"	—	—	26KW91	5	—	—
⅝"-11 Thread, ½" Drive						
⅜"	—	—	26KT80	10	—	—
¾"	—	—	26KT81	10	—	—
⅞"	—	—	26KT82	10	—	—
1"	22TU61	10	22TR79	10	—	—
	—	—	5RVD3	25	—	—

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
1¼"	22TU62	10	22TR80	10	5RVK5	25
	—	—	5RVD4	25	—	—
1½"	22TU63	10	22TR81	10	—	—
	—	—	5RVD5	25	—	—
1¾"	22TU64	10	22TR82	10	—	—
	—	—	5RVD6	25	—	—
2"	6XE24	5	29DU66	5	—	—
	—	—	5RVD7	25	—	—
2¼"	5WEE5	5	26KT84	5	—	—
	—	—	5RVD8	25	—	—
2½"	6XE26	5	22TR83	5	—	—
	—	—	5RVD9	25	—	—
2¾"	6XE27	5	22TR84	5	—	—
	—	—	5RVE0	25	—	—
3"	6XE28	5	22TR85	5	—	—
	—	—	5RVE1	25	—	—
3¼"	—	—	22TR86	5	—	—
	—	—	5RVE2	25	—	—
3½"	6XE29	5	22TR87	5	—	—
	—	—	5RVE3	25	—	—
3¾"	—	—	26KT85	5	—	—
	—	—	33W081	25	—	—
4"	6XE30	5	22TR88	5	—	—
	—	—	5RVE4	25	—	—
4¼"	—	—	26KT86	5	—	—
4½"	5WEE6	5	22TR89	5	—	—
	—	—	5RVE5	25	—	—
5"	6XE32	5	22TR90	5	5MJH5	25
5½"	6XE33	5	22TR91	5	—	—
	—	—	5RVE6	10	—	—
6"	6XE34	5	22TR92	5	—	—
	—	—	5RVE7	10	—	—
⅝"-18 Thread, ½" Drive						
1"	—	—	22TW91	10	—	—
	—	—	5RVK4	25	—	—
1¼"	—	—	26KW92	10	—	—
1½"	22TX74	10	26KW93	10	—	—
	—	—	5RVK6	25	—	—
1¾"	22TX75	10	26KW94	10	5RVK7	25
2"	22TX76	5	26KW95	5	—	—
	—	—	5RVK8	25	—	—
2¼"	—	—	26KW96	5	—	—
	—	—	33W082	25	—	—
2½"	—	—	26KW97	5	—	—
	—	—	5RVK9	25	—	—
2¾"	—	—	26KW98	5	—	—
3"	—	—	26KW99	5	—	—
3½"	—	—	26KX02	5	—	—
4"	—	—	26KX03	5	—	—
4½"	—	—	26KX04	5	—	—
5"	—	—	22TW92	5	—	—
5½"	—	—	26KX05	5	—	—
6"	—	—	26KX06	5	—	—
¾"-10 Thread, ⅝" Drive						
1"	22TU67	5	26KT92	5	—	—
1¼"	6XE35	5	22TR97	5	5MJD6	25
1½"	6XE36	5	22TR98	5	5MJD7	25
1¾"	5UGY7	5	22TR99	5	5MJD8	25
2"	5UGY8	5	22TT01	5	5MJD9	25
2¼"	6XE39	5	22TT02	5	5MJE0	25
2½"	5WEE7	5	22TT03	5	5MJE1	25
2¾"	6XE41	5	22TT04	5	5MJE2	25
3"	6XE42	5	22TT05	5	5MJH8	25
3¼"	—	—	22TT06	5	5MJH9	25
3½"	5WEE8	5	22TT07	5	5MJJ0	25
3¾"	—	—	1HLJ3	5	—	—
	—	—	33W083	25	—	—
4"	5WEE9	5	22TT08	5	5MJJ1	25
4½"	6XE45	5	22TT09	5	5MJJ2	25
5"	6XE46	5	22TT10	5	5MJJ3	25
5½"	—	—	22TT11	5	—	—
	—	—	5RVE9	10	—	—
6"	5WEF0	5	22TT12	5	—	—
	—	—	5RVF0	10	—	—
¾"-16 Thread, ⅝" Drive						
1¼"	—	—	26KX10	5	—	—
1½"	—	—	26KX11	5	—	—
1¾"	—	—	26KX12	5	—	—
2"	—	—	22TW93	5	—	—
2¼"	—	—	26KX13	5	—	—
2½"	—	—	26KX14	5	—	—
2¾"	—	—	26KX15	5	—	—
3"	—	—	26KX16	5	—	—
	—	—	33W084	25	—	—
3½"	—	—	26KX18	5	—	—
4"	—	—	26KX19	5	—	—
4½"	—	—	26KX20	5	—	—
5"	—	—	26KX21	5	—	—
5½"	—	—	26KX22	5	—	—
6"	—	—	26KX23	5	—	—
⅞"-9 Thread, ¾" Drive						
1½"	—	—	26KT98	5	—	—
1¾"	—	—	26KT99	5	—	—
2"	26KV36	5	22TT22	5	—	—
	—	—	5RVF2	10	—	—
2¼"	26KV37	5	22TT23	5	—	—
	—	—	5RVF3	10	—	—
2½"	26KV38	5	22TT24	5	—	—
	—	—	5RVF4	10	—	—
2¾"	26KV39	5	22TT25	5	—	—
3"	26KV40	5	22TT26	5	5RVF6	10
3½"	26KV41	5	22TT28	5	5MJJ6	10
4"	26KV42	5	22TT29	5	5MJJ7	10

CONTINUED

CONTINUED

Socket-Head Cap Screws

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
4½"	26KV43	5	22TT30	5	5MJJ8	10
5"	26KV44	5	22TT31	5	5MJJ9	10
5½"	—	—	22TT32	5	5MJK0	10
6"	26KV45	5	22TT33	1	5MJK1	10
⅞"-14 Thread, ¾" Drive						
2"	—	—	26KX27	5	—	—
2¼"	—	—	26KX28	5	—	—
2½"	—	—	26KX29	5	—	—
2¾"	—	—	26KX30	5	—	—
3"	—	—	26KX31	5	—	—
3¼"	—	—	26KX32	5	—	—
3½"	—	—	26KX33	5	—	—
4"	—	—	26KX34	5	—	—
4½"	—	—	26KX35	5	—	—
5"	—	—	26KX36	5	—	—
6"	—	—	26KX37	1	—	—
1"-8 Thread, ¾" Drive						
1½"	—	—	22TT37	5	—	—
2"	22TU70	5	22TT38	5	—	—
	—	—	5RVF9	10	—	—
2¼"	26KV49	5	22TT39	5	—	—
	—	—	5RVG0	10	—	—
2½"	22TU71	5	22TT40	5	—	—
	—	—	5RVG1	10	—	—
2¾"	26KV50	5	22TT41	5	5RVG2	10
3"	22TU72	5	22TT42	5	—	—
	—	—	5RVG3	10	—	—
3¼"	—	—	22TT43	5	—	—
	—	—	5RVG4	10	—	—
3½"	26KV51	5	22TT44	5	—	—
	—	—	5RVG5	10	—	—
4"	22TU73	5	22TT45	5	—	—
	—	—	5RVG6	10	—	—
4½"	26KV52	5	22TT46	5	—	—
	—	—	5RVG7	10	—	—
5"	26KV53	5	22TT47	5	5MJK4	10
5½"	—	—	22TT48	5	5MJK5	10
6"	26KV54	5	22TT49	1	5MJK6	10
1"-14 Thread, ¾" Drive						
2"	—	—	26KX40	5	—	—
2½"	—	—	26KX42	5	—	—
3"	—	—	26KX43	5	—	—
3½"	—	—	26KX44	5	—	—
4"	—	—	26KX45	5	—	—
4½"	—	—	26KX46	5	—	—
5"	—	—	26KX47	5	—	—
6"	—	—	26KX48	1	—	—

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
1⅛"-7 Thread, ⅞" Drive						
2"	—	—	26KU18	1	—	—
2½"	—	—	26KU19	1	—	—
3"	—	—	26KU20	1	—	—
3½"	—	—	26KU21	1	—	—
4"	—	—	26KU22	1	—	—
4½"	—	—	26KU23	1	—	—
5"	—	—	26KU24	1	—	—
5½"	—	—	26KU25	1	—	—
6"	—	—	26KU26	1	—	—
1⅛"-12 Thread, ⅞" Drive						
3"	—	—	26KX50	1	—	—
3½"	—	—	26KX51	1	—	—
4"	—	—	26KX52	1	—	—
4½"	—	—	26KX53	1	—	—
5"	—	—	26KX54	1	—	—
6"	—	—	26KX55	1	—	—
1¼"-7 Thread, ⅞" Drive						
2"	—	—	26KU37	1	—	—
2½"	—	—	26KU39	1	—	—
3"	—	—	5PNC2	1	—	—
	—	—	4XU33	1	—	—
3½"	—	—	5PNC3	1	—	—
	—	—	1AU77	1	—	—
4"	—	—	5PNC6	1	—	—
	—	—	4XU34	1	—	—
4½"	—	—	5PNC7	1	—	—
	—	—	4XU35	1	—	—
5"	—	—	26KU42	1	—	—
5½"	—	—	1AU83	1	—	—
	—	—	33W091	1	—	—
6"	—	—	26KU43	1	—	—
1¼"-12 Thread, ⅞" Drive						
2"	—	—	26KX58	1	—	—
2½"	—	—	26KX59	1	—	—
3"	—	—	26KX60	1	—	—
3½"	—	—	26KX61	1	—	—
4"	—	—	26KX62	1	—	—
4½"	—	—	26KX63	1	—	—
5"	—	—	26KX64	1	—	—
5½"	—	—	26KX65	1	—	—
6"	—	—	26KX66	1	—	—
1⅜"-6 Thread, 1" Drive						
3"	—	—	26KU52	1	—	—
3½"	—	—	26KU53	1	—	—
4"	—	—	26KU54	1	—	—
4½"	—	—	26KU55	1	—	—

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
5"	—	—	26KU56	1	—	—
5½"	—	—	26KU57	1	—	—
6"	—	—	26KU58	1	—	—
1⅜"-12 Thread, 1" Drive						
3"	—	—	26KX72	1	—	—
3½"	—	—	26KX73	1	—	—
4"	—	—	26KX74	1	—	—
4½"	—	—	26KX75	1	—	—
5"	—	—	26KX76	1	—	—
5½"	—	—	26KX77	1	—	—
6"	—	—	26KX78	1	—	—
1½"-6 Thread, 1" Drive						
2½"	—	—	26KU68	1	—	—
3"	—	—	26KU70	1	—	—
3½"	—	—	1HLH1	1	—	—
4"	—	—	5PNC5	1	—	—
	—	—	1HLH2	1	—	—
4½"	—	—	5PND6	1	—	—
5"	—	—	5PND7	1	—	—
5½"	—	—	5PND8	1	—	—
6"	—	—	5PND9	1	—	—
1½"-12 Thread, 1" Drive						
3"	—	—	26KX82	1	—	—
3½"	—	—	26KX83	1	—	—
4"	—	—	26KX84	1	—	—
4½"	—	—	26KX85	1	—	—
5"	—	—	26KX86	1	—	—
5½"	—	—	26KX87	1	—	—
6"	—	—	26KX88	1	—	—
1¾"-5 Thread, 1¼" Drive						
3"	—	—	26KU82	1	—	—
3½"	—	—	26KU83	1	—	—
4"	—	—	26KU84	1	—	—
4½"	—	—	26KU85	1	—	—
5"	—	—	26KU86	1	—	—
5½"	—	—	26KU87	1	—	—
6"	—	—	26KU88	1	—	—
2"-4-1/2 Thread, 1½" Drive						
4"	—	—	26KU99	1	—	—
4½"	—	—	26KV01	1	—	—
5"	—	—	26KV02	1	—	—
5½"	—	—	26KV03	1	—	—
6"	—	—	26KV04	1	—	—

Self-Locking Socket-Head Cap Screws

Length	Material	Grade	Item No.	Pkg. Qty.
#4-40 Thread, 3/32" Drive				
¼"	18-8		1FY40	50
	Alloy Steel		1FY81	25
⅜"	18-8		1FY41	50
	Alloy Steel		1FY82	25
½"	18-8		1FY42	50
	Alloy Steel		1FY83	25
#5-40 Thread, 3/32" Drive				
⅜"	Alloy Steel		1FY84	25
½"	Alloy Steel		1FY85	25
#6-32 Thread, 7/64" Drive				
¼"	18-8		1FY43	50
	Alloy Steel		1FY86	25
⅜"	18-8		1FY44	50
	Alloy Steel		1FY87	25
½"	18-8		1FY45	50
	Alloy Steel		1FY88	25
⅝"	18-8		1FY46	50
	Alloy Steel		1FY89	25
¾"	18-8		1FY47	50
	Alloy Steel		1FY90	25
⅞"	Alloy Steel		1FY91	25
1"	Alloy Steel		1FY92	25
#8-32 Thread, 9/64" Drive				
¼"	18-8		1FY48	50
⅜"	18-8		1FY49	50
	Alloy Steel		1FY93	25

Length	Material	Grade	Item No.	Pkg. Qty.
½"	18-8		1FY50	50
	Alloy Steel		1FY94	25
⅝"	Alloy Steel		1FY95	25
¾"	18-8		1FY51	50
	Alloy Steel		1FY96	25
⅞"	Alloy Steel		1FY97	25
1"	18-8		1FY52	25
	Alloy Steel		1FY98	25
1¼"	Alloy Steel		1FY99	25
1½"	Alloy Steel		1GA10	25
#10-24 Thread, 5/32" Drive				
⅜"	18-8		1FY53	50
	Alloy Steel		1GA11	25
½"	18-8		1FY54	50
	Alloy Steel		1GA12	25
⅝"	Alloy Steel		1GA13	25
¾"	18-8		1FY55	50
	Alloy Steel		1GA14	25
1"	18-8		1FY56	25
	Alloy Steel		1GA15	25
#10-32 Thread, 5/32" Drive				
⅜"	18-8		1FY57	25
	Alloy Steel		1GA16	25
½"	18-8		1FY58	25
	Alloy Steel		1GA17	25
⅝"	18-8		1FY59	25
	Alloy Steel		1GA18	25

Length	Material	Grade	Item No.	Pkg. Qty.
¾"	18-8		1FY60	25
	Alloy Steel		1GA19	25
⅞"	Alloy Steel		1GA20	25
1"	18-8		1FY61	50
	Alloy Steel		1GA21	25
1¼"	Alloy Steel		1GA22	25
1½"	Alloy Steel		1GA23	25
1¾"	Alloy Steel		1GA24	25
2"	Alloy Steel		1GA25	25
¼"-20 Thread, 3/16" Drive				
⅜"	18-8		1FY62	25
	Alloy Steel		1GA26	25
½"	18-8		1FY63	25
	Alloy Steel		1GA27	25
⅝"	18-8		1FY64	25
	Alloy Steel		1GA28	25
¾"	18-8		1FY65	25
	Alloy Steel		1GA29	25
⅞"	Alloy Steel		1GA30	25
1"	18-8		1FY66	25
	Alloy Steel		1GA31	25
1¼"	18-8		1FY67	25
	Alloy Steel		1GA32	25
1½"	18-8		1FY68	10
	Alloy Steel		1GA33	25
1¾"	Alloy Steel		1GA34	25

Length	Material	Grade	Item No.	Pkg. Qty.
2"	18-8		1FY69	10
	Alloy Steel		1GA35	25
2½"	Alloy Steel		1GA36	10
3"	Alloy Steel		1GA37	10
¼"-28 Thread, 3/16" Drive				
½"	Alloy Steel		1GA38	25
¾"	Alloy Steel		1GA39	25
1"	Alloy Steel		1GA40	25
1¼"	Alloy Steel		1GA41	25
1½"	Alloy Steel		1GA42	25
1¾"	Alloy Steel		1GA43	25
2"	Alloy Steel		1GA44	25
5/16"-18 Thread, ¼" Drive				
½"	Alloy Steel		1GA45	25
¾"	18-8		1FY70	10
	Alloy Steel		1GA46	25
1"	18-8		1FY71	10
	Alloy Steel		1GA47	25
1¼"	18-8		1FY72	10
	Alloy Steel		1GA48	10
1½"	18-8		1FY73	10
	Alloy Steel		1GA49	10
1¾"	Alloy Steel		1GA50	10
2"	18-8		1FY74	10
	Alloy Steel		1GA51	10
2½"	Alloy Steel		1GA52	10
3"	Alloy Steel		1GA53	10

Length	Material	Grade	Item No.	Pkg. Qty.
5/16"-24 Thread, ¼" Drive				
¾"	Alloy Steel		1GA54	25
1"	Alloy Steel		1GA55	25
1¼"	Alloy Steel		1GA56	25
1½"	Alloy Steel		1GA57	25
⅜"-16 Thread, 5/16" Drive				
¾"	18-8		1FY75	10
	Alloy Steel		1GA58	10
⅞"	Alloy Steel		1GA59	10
1"	18-8		1FY76	10
	Alloy Steel		1GA60	10
1¼"	18-8		1FY77	10
	Alloy Steel		1GA61	10
1½"	18-8		1FY78	10
	Alloy Steel		1GA62	10
1¾"	Alloy Steel		1GA63	10
2"	Alloy Steel		1GA64	10
2¼"	Alloy Steel		1GA65	10
2½"	Alloy Steel		1GA66	10
3"	Alloy Steel		1GA67	5
⅜"-24 Thread, 5/16" Drive				
1"	Alloy Steel		1GA68	10
1¼"	Alloy Steel		1GA69	10
1½"	Alloy Steel		1GA70	10
½"-13 Thread, ⅜" Drive				
1"	Alloy Steel		1GA71	10
1¼"	Alloy Steel		1GA72	5

Nylon locking element is bonded to threads for a firm hold that won't loosen under vibration. Meet ASME B18.3 standards.



Length	Material	Grade	Item No.	Pkg. Qty.
1½"	18-8		1FY79	5
	Alloy Steel		1GA73	5
1¾"	Alloy Steel		1GA74	5
2"	18-8		1FY80	5
	Alloy Steel		1GA75	5
2½"	Alloy Steel		1GA76	5
3"	Alloy Steel		1GA77	5
⅝"-11 Thread, ½" Drive				
1½"	Alloy Steel		1GA78	5
1¾"	Alloy Steel		1GA79	5
2"	Alloy Steel		1GA80	5

18-8 Stainless Steel Vented-Head Cap Screws

Length	Item No.	Pkg. Qty.
#2-56 Thread, 5/64" Drive		
1/8"	1GA81	5
3/16"	1GA82	5
1/4"	1GA83	5
5/16"	1GA84	5
3/8"	1GA85	5
1/2"	1GA86	5
#4-40 Thread, 3/32" Drive		
3/16"	1GA87	5
1/4"	1GA88	5
5/16"	1GA89	5
3/8"	1GA90	5
1/2"	1GA91	5

Length	Item No.	Pkg. Qty.
5/8"	1GA92	1
3/4"	1GA93	1
1"	1GA94	1
#6-32 Thread, 7/64" Drive		
3/16"	1GA95	5
1/4"	1GA96	5
5/16"	1GA97	5
3/8"	1GA98	5
7/16"	1GA99	5
1/2"	1GB10	5
5/8"	1GB11	5
3/4"	1GB12	5
7/8"	1GB13	5

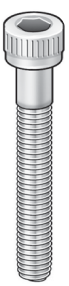
Length	Item No.	Pkg. Qty.
1"	1GB14	5
1 1/4"	1GB15	1
#8-32 Thread, 9/64" Drive		
1/4"	1GB16	5
5/16"	1GB17	5
3/8"	1GB18	5
1/2"	1GB19	5
5/8"	1GB20	5
3/4"	1GB21	5
7/8"	1GB22	5
1"	1GB23	5
1 1/4"	1GB24	1

Length	Item No.	Pkg. Qty.
1 1/2"	1GB25	1
#10-24 Thread, 5/32" Drive		
3/8"	1GB26	5
1/2"	1GB27	5
5/8"	1GB28	5
3/4"	1GB29	5
1"	1GB30	5
#10-32 Thread, 5/32" Drive		
1/4"	1GB31	5
5/16"	1GB32	5
3/8"	1GB33	5
1/2"	1GB34	5

Length	Item No.	Pkg. Qty.
3/16"	1GB35	5
5/16"	1GB36	5
3/4"	1GB37	5
7/8"	1GB38	5
1"	1GB39	5
1 1/8"	1GB40	5
1 1/4"	1GB41	5
1 1/2"	1GB42	1
1/4"-20 Thread, 3/16" Drive		
3/8"	1GB43	5
1/2"	1GB44	5
5/8"	1GB45	5

Length	Item No.	Pkg. Qty.
3/4"	1GB46	5
7/8"	1GB47	5
1"	1GB48	5
1 1/4"	1GB49	5
1 1/2"	1GB50	1
1 3/4"	1GB51	1
5/16"-18 Thread, 1/4" Drive		
3/4"	1GB52	5
1"	1GB53	5
3/8"-16 Thread, 5/16" Drive		
1"	1GB54	5
1 1/2"	1GB55	1

Vent gas or fluids through air shaft drilled through entire length of screw. Meet ASME B18.3 standards.



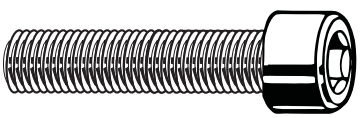


Alloy Steel Socket-Head Cap Screws

ARMOR COAT™ FASTENERS

Can withstand 1000-hr. of ASTM B117 salt spray.
Meet ASTM A574, ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
#6-32 Thread, 7/64" Drive		
1/2"	5YMY6	25
5/8"	5YMY7	25
3/4"	5YMY8	50
7/8"	5YMY9	25
1"	5YMZ0	50
1 1/4"	5YMZ1	25
1 1/2"	5YMZ2	25
2"	5YMZ3	25
#8-32 Thread, 9/64" Drive		
3/8"	5YMZ4	50
1/2"	5YMZ5	50
5/8"	5YMZ6	50
3/4"	5YMZ7	50
7/8"	5YMZ8	50
1"	5YMZ9	50
1 1/4"	5YNA0	50
1 1/2"	5YNA1	50
2"	5YNA2	25
#10-24 Thread, 5/32" Drive		
1/2"	5YNA3	100
1"	5YNA4	50
1 1/2"	5YNA5	50
2"	5YNA6	50
2 1/4"	5YNA7	25
2 1/2"	5YNA8	25
1/4"-20 Thread, 3/16" Drive		
3/8"	5YNA9	100
1/2"	5YNC0	50
5/8"	5YNC1	50
3/4"	5YNC2	50
1"	5YNC3	50
1 1/2"	5YNC5	50
1 3/4"	5YNC6	50
2"	5YNC7	25
2 1/4"	5YNC8	25
2 1/2"	5YNC9	25
3"	5YND0	10
4"	5YND1	10
1/4"-20 Thread, 5/32" Drive		
1 1/4"	5YNC4	50
5/16"-18 Thread, 1/4" Drive		
5/8"	5YND2	50
3/4"	5YND3	50
7/8"	5YND4	50
1"	5YND5	50
1 1/4"	5YND6	25
1 1/2"	5YND7	25
1 3/4"	5YND8	25
2"	5YND9	25
3"	5YNE0	10
4"	5YNE1	5
3/8"-16 Thread, 5/16" Drive		
5/8"	5YNE2	25
3/4"	5YNE3	25
7/8"	5YNE4	25
1"	5YNE5	25
1 1/4"	5YNE6	25
1 1/2"	5YNE7	25
1 3/4"	5YNE8	25
2"	5YNE9	25
2 1/2"	5YNF0	10
3"	5YNF1	10
3 1/2"	5YNF2	10
4"	5YNF3	5
4 1/2"	5YNF4	5
5"	5YNF5	5
7/16"-14 Thread, 3/8" Drive		
1 1/2"	5YNF6	10
2"	5YNF7	10
3"	5YNF8	10
1/2"-13 Thread, 3/8" Drive		
1"	5YNF9	10
1 1/4"	5YNG0	10
1 1/2"	5YNG1	10
1 3/4"	5YNG2	10
2"	5YNG3	10
2 1/4"	5YNG4	10
2 1/2"	5YNG5	10
3"	5YNG6	5
3 1/4"	5YNG7	5
3 1/2"	5YNG8	5
4"	5YNG9	5
4 1/2"	5YNH0	5



316 Stainless Steel Socket-Head Cap Screws

Meet ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
#2-56 Thread, 5/64" Drive		
1/4"	22TU74	100
3/8"	22TU75	100
#3-48 Thread, 5/64" Drive		
1/4"	29DT74	100
5/8"	29DT76	100
#4-40 Thread, 3/32" Drive		
3/16"	22TU76	100
1/4"	22TU77	100
5/16"	22TU78	100
3/8"	22TU79	100
1/2"	22TU80	100
5/8"	22TU81	100
3/4"	22TU82	100
1"	22TU83	100
#6-32 Thread, 7/64" Drive		
1/4"	22TU84	100
3/8"	22TU86	100
1/2"	22TU87	100
5/8"	22TU88	100
3/4"	22TU89	100
1"	22TU90	100
1 1/4"	22TU91	100
1 1/2"	22TU92	100
#8-32 Thread, 9/64" Drive		
1/4"	22TU93	100
3/8"	22TU94	100
1/2"	22TU95	100
5/8"	22TU96	100
3/4"	22TU97	100
1"	22TU98	100
1 1/4"	22TU99	100
1 1/2"	22TV01	100
#10-24 Thread, 5/32" Drive		
3/8"	22TV02	100
1/2"	22TV03	100
5/8"	22TV04	100
3/4"	22TV05	100
1"	22TV06	100
1 1/4"	22TV07	100
1 1/2"	22TV08	100
2"	22TV09	100
#10-32 Thread, 5/32" Drive		
1/4"	22TX77	100
3/8"	22TX78	100
1/2"	22TX79	100
5/8"	22TX80	100
3/4"	22TX81	100
7/8"	22TX82	100
1"	22TX83	100
1 1/4"	22TX84	100
1 1/2"	22TX85	100
2"	22TX86	100
1/4"-20 Thread, 3/16" Drive		
3/8"	22TV10	100
1/2"	22TV11	100
5/8"	22TV12	100
3/4"	22TV13	100
7/8"	22TV14	100
1"	22TV15	100
1 1/4"	22TV16	100
1 1/2"	22TV17	100
1 3/4"	22TV18	100
2"	22TV19	50
2 1/4"	22TV20	50
2 1/2"	22TV21	50
3"	22TV22	25
1/4"-28 Thread, 3/16" Drive		
1/2"	22TX87	100
3/4"	22TX88	100
1"	22TX89	100
5/16"-18 Thread, 1/4" Drive		
1/2"	22TV23	100
5/8"	22TV24	100
3/4"	22TV25	100
7/8"	22TV26	100
1"	22TV27	50
1 1/4"	22TV28	50
1 1/2"	22TV29	50
1 3/4"	22TV30	50
2"	22TV31	50
2 1/4"	29DT85	25
2 1/2"	22TV32	25
3"	22TV33	25
3 1/2"	22TV34	25
4"	22TV35	10
5/16"-24 Thread, 1/4" Drive		
3/4"	22TX90	100
1"	22TX91	50
3/8"-16 Thread, 5/16" Drive		
1/2"	22TV36	50
5/8"	22TV37	50
3/4"	22TV38	50
1"	22TV39	50
1 1/4"	22TV40	50
1 1/2"	22TV41	25
1 3/4"	22TV42	25
2"	22TV43	25
2 1/2"	22TV44	25
3"	22TV45	10
3/8"-24 Thread, 5/16" Drive		
3/4"	22TX92	50
1"	22TX93	50
7/16"-14 Thread, 3/8" Drive		
1 1/2"	22TV46	25
2"	22TV47	10
1/2"-13 Thread, 3/8" Drive		
3/4"	22TV48	10
1"	22TV49	10
1 1/4"	22TV50	10
1 1/2"	22TV51	10
1 3/4"	22TV52	10
2"	22TV53	10
2 1/4"	22TV54	10
2 1/2"	22TV55	10
3"	22TV56	5
3 1/2"	29DT86	5
4"	22TV57	5
5/8"-11 Thread, 1/2" Drive		
1"	22TV58	10
1 1/4"	22TV59	10
1 1/2"	22TV60	10
1 3/4"	22TV61	10
2"	22TV62	5
2 1/4"	22TV63	5
2 1/2"	22TV64	5
3"	22TV65	5
3 1/2"	22TV66	5
4"	22TV67	5
3/4"-10 Thread, 5/8" Drive		
1 1/4"	22TV68	5
1 1/2"	22TV69	5
1 3/4"	22TV70	5
2"	22TV71	5
2 1/2"	22TV72	5
3"	22TV73	5
4"	22TV74	5



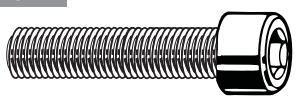
METRIC BLUE

Metric Blue Steel Socket-Head Cap Screws

Meet ASTM A574, ASME B18.3 standards.

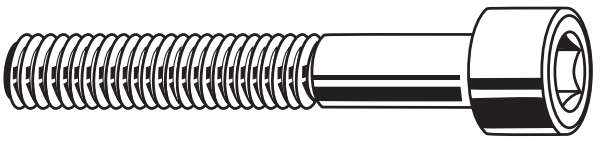
Length	Item No.	Pkg. Qty.
M3-0.50 Thread, 2.50mm Drive		
5mm	5AHK5	50
6mm	5AHK6	50
8mm	5AHK7	50
10mm	5AHK8	50
12mm	5AHK9	50
16mm	5AHL0	50
20mm	5AHL1	50
25mm	5AHL2	50
30mm	5AHL3	50
35mm	5AHL4	50
M4-0.70 Thread, 3mm Drive		
6mm	5AHL5	50
8mm	5AHL6	50
10mm	5AHL7	50
12mm	5AHL8	50
16mm	5AHL9	50
20mm	5AHN0	50
25mm	5AHN1	25
30mm	5AHN2	50
45mm	5AHN3	25
50mm	5AHN4	25
M5-0.80 Thread, 4mm Drive		
10mm	5AHN5	50
12mm	5AHN6	100
16mm	5AHN7	50
20mm	5AHN8	50
25mm	5AHN9	50
30mm	5AHP0	50
35mm	5AHP1	50
40mm	5AHP2	50
50mm	5AHP3	25
M6-1.00 Thread, 5mm Drive		
10mm	5AHP4	50
12mm	5AHP5	50
16mm	5AHP6	50
20mm	5AHP7	50
25mm	5AHP8	50
30mm	5AHP9	50
35mm	5AHR0	50
40mm	5AHR1	50
45mm	5AHR2	50
50mm	5AHR3	50
55mm	5AHR4	25
60mm	5AHR5	25
75mm	5AHR6	10
M8-1.25 Thread, 6mm Drive		
12mm	5AHR7	50
25mm	5AHT0	50
30mm	5AHT1	50
35mm	5AHT2	25
40mm	5AHT3	25
45mm	5GYT5	25
50mm	5GYT6	25
60mm	5GYT7	25
65mm	5GYT8	25
70mm	5GYT9	10
100mm	5GYU0	10
M10-1.50 Thread, 8mm Drive		
20mm	5GYU1	25
25mm	5GYU2	25
30mm	5GYU3	25
35mm	5GYU4	25
40mm	5GYU5	25
50mm	5GYU6	25
80mm	5GYU7	10
M12-1.75 Thread, 10mm Drive		
25mm	5GYU8	10
30mm	5GYU9	10
35mm	5GYV0	10
40mm	5GYV1	10
50mm	5GYV2	10
80mm	5GYV3	10
90mm	5GYV4	10
M16-2.00 Thread, 14mm Drive		
40mm	5GYV5	5
45mm	5GYV6	5
50mm	5GYV7	5
60mm	5GYV8	5
70mm	5GYV9	5
80mm	5GYW0	5
90mm	5GYW1	5
M20-2.50 Thread, 17mm Drive		
50mm	5GYW2	5
60mm	5GYW3	5
70mm	5GYW4	5
80mm	5GYW5	5
90mm	5GYW6	5
100mm	5GYW7	5
M24-3.00 Thread, 19mm Drive		
70mm	5GYW8	5
80mm	5GYW9	5
90mm	5GYX0	5
100mm	5GYX1	5
110mm	5GYX2	5

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."



Metric Socket-Head Cap Screws

L	Class 12.9 Steel Black Oxide Item No.	Pkg. Qty.	Class 8.8 Steel Zinc Plated Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
M1.6-0.35 Thread, 1.5mm Drive						
3mm	6CE29	100	—	—	—	—
4mm	6CE30	100	—	—	—	—
5mm	6CE31	100	—	—	—	—
6mm	6CE32	100	—	—	—	—
8mm	6CE33	100	—	—	—	—
10mm	6CE34	100	—	—	—	—
12mm	6CE35	100	—	—	—	—
M2.5-0.45 Thread, 2mm Drive						
4mm	6CE36	100	—	—	—	—
5mm	6CE37	100	—	—	—	—
6mm	6CE38	100	—	—	—	—
8mm	6CE39	100	—	—	—	—
10mm	6CE40	100	—	—	—	—
12mm	6CE41	100	—	—	—	—
16mm	6CE42	100	—	—	—	—
M3-0.50 Thread, 2.50mm Drive						
6mm	6CE49	100	38DC71	100	6CE49	100
8mm	6CE50	100	38DC72	100	6CE50	100
10mm	—	—	38DC73	100	26LG17	100
12mm	6CE51	100	38DC74	100	6CE51	100
16mm	6CE53	100	38DC75	100	6CE53	100
20mm	—	—	38DC76	100	—	—
25mm	6CE56	100	38DC77	100	6CE56	100
30mm	6CE57	100	38DC78	100	—	—
40mm	22TZ30	100	—	—	—	—
50mm	22TZ31	100	—	—	—	—
M4-0.70 Thread, 3mm Drive						
6mm	6CE62	100	38DC79	100	5YRT1	100
8mm	6CE63	100	38DC80	100	5YRA9	100
10mm	26LG20	100	38DC81	100	5YRC0	100
12mm	4XY50	100	38DC82	100	5YRC1	100
16mm	4XY52	100	38DC83	100	5YRC2	100
18mm	6CE64	100	38DC84	100	—	—
20mm	4XY53	100	38DC85	100	5YRC3	100
25mm	—	—	38DC86	100	5YRC4	100
30mm	6CE67	100	38DC87	100	5YRC5	100
35mm	6CE68	100	38DC88	100	5YRC6	100
40mm	6CE69	100	38DC89	100	5YRC7	100
45mm	6CE70	100	38DC90	100	5YRC8	100
50mm	6CE71	100	38DC91	100	5YRC9	100
60mm	6CE72	100	38DC92	100	—	—
70mm	6CE73	100	38DC93	100	—	—
80mm	22TZ32	100	—	—	—	—
M5-0.80 Thread, 4mm Drive						
6mm	6CE75	100	38DC94	100	—	—
8mm	6CE76	100	38DC95	100	5YRD0	100
10mm	4XY54	100	38DC96	100	5YRD1	100
12mm	4XY55	100	38DC97	100	5YRD2	100
16mm	4XY56	100	38DC98	100	—	—
20mm	4XY57	100	38DC99	100	5YRD4	100
25mm	4XY58	100	38DD01	100	5YRD5	100
30mm	4XY59	100	38DD02	100	—	—
35mm	6CE80	100	38DD03	100	5YRT2	100
40mm	—	—	38DD04	100	—	—
45mm	6CE81	100	38DD05	100	6CE81	100
50mm	6CE82	100	38DD06	100	5YRT5	100
55mm	22TZ33	100	38DD07	100	5MJN3	100
60mm	22TZ34	100	38DD08	100	5MJN4	100
65mm	22TZ35	100	—	—	—	—
70mm	22TZ36	100	38DD09	100	—	—
75mm	22TZ37	100	—	—	—	—
80mm	22TZ38	100	38DD10	100	—	—
90mm	22TZ39	50	—	—	—	—
100mm	22TZ40	50	38DD11	50	—	—
M6-1.00 Thread, 5mm Drive						
8mm	1GEG5	100	38DD12	100	5NTN3	100
10mm	4XY61	100	38DD13	100	5YRD6	100
12mm	—	—	38DD14	100	5YRD7	100
16mm	—	—	38DD15	100	5YRD8	100
18mm	4XY65	100	38DD16	100	—	—
20mm	26LG40	100	38DD17	100	5YRD9	100
22mm	6CE91	100	38DD18	100	—	—
25mm	—	—	38DD19	100	5YRE0	100
30mm	—	—	38DD20	100	5YRE1	100
35mm	4XY69	100	38DD21	100	5YRE2	100
40mm	—	—	38DD22	100	—	—
45mm	6CE92	100	38DD23	100	5YRT6	100
50mm	4XY71	100	38DD24	100	5YRE4	100
55mm	22TZ41	100	38DD25	100	5YRT7	100
60mm	22TZ42	100	38DD26	100	5YRT8	100
65mm	22TZ43	100	38DD27	100	5YRT9	100
70mm	22TZ44	100	38DD28	100	5YRU0	100
75mm	22TZ45	100	38DD29	100	5NTN1	100
80mm	22TZ46	100	38DD30	50	5NTN2	100
90mm	22TZ47	50	38DD31	50	—	—
100mm	22TZ48	50	38DD32	50	—	—
110mm	22TZ49	50	—	—	—	—
120mm	22TZ50	50	38DD33	50	—	—
M8-1.25 Thread, 6mm Drive						
10mm	6CU13	100	38DD34	100	—	—
12mm	6CU14	100	38DD35	100	5YRE5	100
16mm	6CU15	100	38DD36	100	5YRE6	100
18mm	6CU16	100	38DD37	100	—	—
20mm	—	—	38DD38	100	5YRE7	100
22mm	22TZ51	100	38DD39	100	—	—
25mm	—	—	38DD40	100	5YRE8	100
30mm	—	—	38DD41	100	5YRE9	100
35mm	—	—	38DD42	100	5YRF0	100
40mm	—	—	38DD43	100	5YRF1	100
45mm	—	—	38DD44	100	5NTN4	100
50mm	4XY78	100	38DD45	100	5YRF2	100
55mm	22TZ52	100	38DD46	100	5NTN5	100
60mm	22TZ53	100	38DD47	100	5NTN6	100
65mm	22TZ54	100	38DD48	100	5NTN7	100
70mm	22TZ55	100	38DD49	100	5NTN8	100
75mm	22TZ56	100	38DD50	100	5NTN9	100
80mm	22TZ57	100	38DD51	100	5NTP0	100
90mm	22TZ58	50	38DD53	50	—	—
100mm	22TZ59	50	38DD54	50	—	—
110mm	22TZ60	50	38DD55	50	—	—
120mm	22TZ61	50	38DD56	50	—	—
130mm	22TZ62	50	38DD57	50	—	—
140mm	22TZ63	25	38DD58	25	—	—
150mm	22TZ64	25	—	—	—	—
M10-1.50 Thread, 8mm Drive						
12mm	4XY79	100	38DD60	100	—	—
16mm	22TZ68	100	38DD61	100	22TZ68	100
20mm	22TZ69	100	38DD62	100	5YRF4	100
25mm	—	—	38DD63	100	5YRF5	100
30mm	—	—	38DD64	100	5YRF6	100
35mm	—	—	38DD65	100	5YRF7	100
40mm	—	—	38DD66	50	5YRF8	100
45mm	22TZ70	50	38DD67	50	—	—
50mm	—	—	38DD68	50	5YRF9	100
55mm	22TZ71	50	38DD69	50	5YRL8	100
60mm	22TZ72	50	38DD70	50	5YRG0	50
65mm	22TZ73	50	38DD71	50	5YRL9	50
70mm	22TZ74	50	38DD72	50	5YRG1	50
75mm	4XY85	100	38DD73	50	5YRN0	50
80mm	22TZ75	50	38DD74	50	5YRN1	50
90mm	22TZ76	50	38DD76	50	5YRN2	50
100mm	—	—	38DD77	50	—	—
110mm	22TZ78	25	38DD78	25	—	—
120mm	—	—	38DD79	25	—	—
130mm	22TZ79	25	38DD80	25	—	—
140mm	22TZ80	25	—	—	—	—
150mm	22TZ81	25	—	—	—	—
M12-1.75 Thread, 10mm Drive						
16mm	22TZ85	50	38DD83	50	—	—
20mm	22TZ86	50	38DD84	50	5YRG2	100
25mm	4XY86	100	38DD85	50	5YRG3	100
30mm	—	—	38DD86	50	—	—
35mm	22TZ87	50	38DD87	50	5YRG5	100
40mm	—	—	38DD88	50	—	—
45mm	4XY89	50	38DD89	50	5YRG7	50
50mm	—	—	38DD90	50	5YRG8	50
55mm	22TZ88	50	38DD91	50	—	—
60mm	22TZ89	50	38DD92	50	5YRG9	50
65mm	22TZ90	50	38DD93	50	5YRN3	50
70mm	22TZ91	25	38DD94	25	5YRN4	50
75mm	22TZ92	25	38DD95	25	5YRN5	50
80mm	22TZ93	25	38DD96	25	5YRN6	25
90mm	4XY91	25	38DD98	25	—	—
100mm	22TZ94	25	38DD99	25	—	—
110mm	22TZ95	25	38DE01	25	—	—
120mm	22TZ96	25	38DE02	25	—	—
130mm	22TZ97	25	38DE03	25	—	—
140mm	22TZ98	25	38DE04	25	—	—
150mm	22TZ99	25	—	—	—	—
M14-2.00 Thread, 12mm Drive						
20mm	22UA03	50	—	—	—	—
25mm	22UA04	50	—	—	—	—
30mm	22UA05	50	38DE07	50	—	—
35mm	22UA06	50	38DE08	50	—	—
40mm	22UA07	50	38DE09	50	—	—
45mm	22UA08	25	38DE10	25	—	—
50mm	22UA09	25	38DE11	25	—	—
55mm	—	—	38DE12	25	—	—
60mm	22UA10	25	38DE13	25	—	—
65mm	22UA11	25	—	—	—	—
70mm	22UA12	25	—	—	—	—
75mm	22UA13	25	—	—	—	—
80mm	22UA14	25	38DE14	25	—	—
90mm	22UA15	25	38DE15	25	—	—
100mm	22UA16	25	38DE16	25	—	—
110mm	22UA17	25	38DE17	25	—	—
120mm	22UA18	25	—	—	—	—
150mm	22UA21	10	—	—	—	—
M16-2.00 Thread, 14mm Drive						
20mm	22UA24	25	—	—	—	—
25mm	22UA25	25	38DE18	25	—	—
30mm	22UA26	25	38DE19	25	5YRH0	25
35mm	4XY92	25	38DE20	25	5YRH1	25
40mm	22UA27	25	38DE21	25	5YRH2	25
45mm	22UA28	25	38DE22	25	5YRH3	25
50mm	22UA29	25	38DE23	25	5YRH4	25
55mm	—	—	38DE24	25	5YRH5	25
60mm	22UA30	25	38DE25	25	5YRH6	25
65mm	22UA31	10	38DE26	10	—	—
70mm	22UA32	10	38DE27	10	5YRP0	25
75mm	22UA33	10	—	—	5YRP1	25
80mm	22UA34	10	38DE28	10	5YRP2	25
90mm	22UA35	10	38DE29	10	5YRP3	25
100mm	22UA36	10	38DE30	10	5YRN7	10
110mm	22UA37	10	38DE31	10	5YRN8	10
120mm	22UA38	10	38DE32	10	5YRN9	10
130mm	22UA39	10	38DE33	10	—	—
140mm	22UA40	10	38DE34	10	—	—
150mm	22UA41	10	—	—	—	—
M18-2.50 Thread, 14mm Drive						
40mm	22UA49	25	—	—	—	—
45mm	22UA50	25	—	—	—	—
50mm	22UA51	25	—	—	—	—
60mm	—	—	38DE38	10	—	—
70mm	22UA52	10	—	—	—	—
80mm	22UA53	10	38DE39	10	—	—
100mm	22UA55	10	—	—	—	—
110mm	22UA56	10	—	—	—	—
140mm	22UA58	10	—	—	—	—
M20-2.50 Thread, 17mm Drive						
30mm	22UA61	10	38DE40	10	—	—
40mm	22UA62	10	38DE41	10	5YRP7	10
45mm	22UA63	10	38DE42	10	5YRP8	10
50mm	22UA64	10	38DE43	10	5YRP9	10
55mm	22UA65	10	38DE44	10	—	—
60mm	22UA66	10	38DE45	10	—	—
65mm	22UA67	10	—	—	—	—
70mm	22UA68	10	38DE46	10	—	—
80mm	22UA69	10	38DE47	10	—	—
90mm	22UA70	10	38DE48	10	5YRR1	10
100mm	22UA71	10	38DE49	10	5MJN5	25
110mm	22UA72	10	38DE50	10	5YRP5	10
120mm	22UA73	10	38DE51	10	5MJN6	10
130mm	22UA74	10	38DE52	10	5YRP6	10
140mm	22UA75	10	38DE53	10	—	—
150mm	22UA76	10	—	—	—	—
M24-3.00 Thread, 19mm Drive						
40mm	22UA84	10	—	—	—	—
45mm	22UA85	10	—	—	—	—
50mm	22UA86	10	38DE57	5	5MJL0	10
60mm	22UA87	10	38DE58	5	5YRR0	10
65mm	22UA88	10	—	—	—	—
80mm	22UA89	10	38DE60	5	—	—
90mm	22UA90	5	38DE61	5	—	—
100mm	22UA91	5	38DE62	5	5YRR2	10
110mm	22UA92	5	38DE63	5	5YRR3	10
120mm	22UA93	5	38DE64	5	5YRR4	10
130mm	22UA94	5	—	—	5YRR5	10
140mm	22UA95	5	38DE65	5	—	—
150mm	22UA96	5	—	—	5YRR7	5
M30-3.50 Thread, 22mm Drive						
60mm	22UC05	5	—	—	—	—
70mm	22UC06	5	—	—	—	—
80mm	22UC07	5	—	—	—	—
90mm	22UC08	5	—	—	—	—
100mm	22UC09	5	—	—	—	—
110mm	22UC10	5	—	—	—	—
120mm	22UC11	5	38DE68	5	—	—
130mm	22UC12	5	—	—	—	—
140mm	22UC13	5	—	—	—	—
150mm	22UC14	5	—	—	—	—
M36-4.00 Thread, 27mm Drive						
80mm	22UC21	5	—	—	—	—
90mm	22UC22	5	—	—	—	—
100mm	22UC23	5	—	—	—	—
110mm	—	—	—	—	5ZY95	1
120mm	22UC24	5	38DE70	5	—	—
150mm	—	—	—	—	5ZY99	1



Metric Stainless Steel Socket-Head Cap Screws

Meet DIN 912 standards; except Nos. 38DZ56 to 38DZ69 meet ISO 7380-1, and Nos. 38DZ61 to 38DZ65 meet DIN7984.

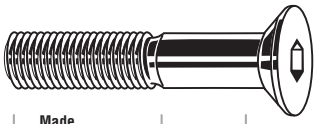
Length	A2 Stainless Steel Plain Item No.	Pkg. Qty.	A4 Stainless Steel Plain Item No.	Pkg. Qty.
M2-0.40 Thread, 1.5mm Drive				
4mm	**22TW76**	50	—	—
5mm	**22TW81**	50	**6CY80**	50
6mm	**22TW85**	50	**6CY81**	50
8mm	**22TW86**	50	**6CY82**	50
10mm	**22TW87**	50	**6CY83**	50
12mm	**22TW88**	50	—	—
16mm	**6DA89**	50	—	—
20mm	**6DA90**	50	—	—
M2.5-0.45 Thread, 2mm Drive				
5mm	**22TW89**	50	—	—
6mm	**22TX95**	50	**6CY86**	50
8mm	**22TX96**	50	—	—
10mm	**22TY34**	50	**6CY88**	50
12mm	**22TY35**	50	—	—
16mm	**22TY36**	50	**22UD43**	50
20mm	**6DA98**	50	—	—
M3-0.50 Thread, 2.50mm Drive				
4mm	**6DA99**	50	**6CY91**	25
5mm	**22TY42**	50	**6CY92**	50
6mm	**22TY43**	50	**6CY93**	50
8mm	**22TY48**	50	**6CY94**	50
10mm	**22TY49**	50	**6CY95**	50
12mm	**22TZ12**	50	**6CY96**	50
16mm	**22TZ13**	50	**6CY97**	50
18mm	**22TZ14**	50	—	—
20mm	**22UC27**	50	**6CY98**	50
25mm	**22UC28**	50	**6CY99**	50
30mm	**22UC29**	50	**6DA10**	50
35mm	**22UC31**	50	—	—
40mm	**22UC32**	50	**6DA11**	50
45mm	**22UC30**	50	—	—
50mm	**6DB24**	25	—	—
M4-0.70 Thread, 3mm Drive				
5mm	**6DB25**	100	—	—
6mm	**38DZ61**	50	**22UD44**	50
8mm	**22UC34**	50	**22UD45**	50
10mm	**22UC37**	50	**6DA14**	50
12mm	**22UC39**	50	**6DA15**	50
14mm	**6DB30**	100	**6DA16**	50
16mm	**22UC47**	50	**6DA17**	50
20mm	**22UC61**	50	**6DA18**	50
25mm	**22UC62**	50	**6DA19**	50
30mm	**22UC63**	50	**6DA20**	50
35mm	**22UC64**	50	**22UD46**	50
40mm	**6DB37**	50	**22UD47**	50
50mm	**22UC35**	50	**22UD48**	50
60mm	**22UC36**	50	—	—
M5-0.80 Thread, 4mm Drive				
6mm	**38DZ56**	50	—	—
8mm	**38DZ62**	50	**26LG88**	50
10mm	**23NN81**	50	**22UD49**	50
12mm	**23NN82**	50	**22UD50**	50
14mm	**6DB45**	100	**22UD51**	50
16mm	**23NN83**	50	**22UD52**	50
20mm	**23NN84**	50	**22UD53**	50
25mm	**23NN85**	50	**22UD54**	50
30mm	**6DB51**	50	**22UD55**	50
35mm	**22UC40**	50	**22UD56**	50
40mm	**22UC41**	50	**22UD57**	50
45mm	**38DZ57**	50	**22UD58**	50
50mm	**22UC43**	50	**22UD59**	50
55mm	**6DB56**	25	**38EA77**	50
60mm	**22UC44**	50	**22UD60**	50
70mm	**22UC45**	50	**38EA78**	50
80mm	**22UC46**	50	**38EA79**	25
90mm	**38DZ66**	25	—	—
100mm	**38DZ67**	25	—	—

Length	A2 Stainless Steel Plain Item No.	Pkg. Qty.	A4 Stainless Steel Plain Item No.	Pkg. Qty.
M6-1.00 Thread, 5mm Drive				
8mm	**6DB60**	50	**38EA80**	50
10mm	**23NN87**	50	**6DA36**	50
12mm	**26WC45**	50	**22UD61**	50
14mm	**26WC46**	50	**22UD62**	50
16mm	**26WC47**	50	**22UD63**	50
20mm	**26WC48**	50	**22UD64**	50
25mm	**6DB68**	50	**22UD65**	50
30mm	**26LG83**	50	**22UD66**	50
35mm	**22UC49**	50	**22UD67**	50
40mm	**22UC50**	50	**22UD68**	50
45mm	**22UC51**	50	**22UD69**	50
50mm	**22UC52**	50	**22UD70**	50
55mm	**22UC53**	50	**22UD71**	50
60mm	**22UC54**	50	**22UD72**	50
65mm	**22UC55**	50	—	—
70mm	**22UC56**	50	**22UD73**	50
80mm	**22UC57**	50	**22UD74**	50
90mm	**22UC58**	25	**38EA81**	50
100mm	**22UC59**	25	—	—
110mm	**22UC60**	25	—	—
120mm	**6DB82**	5	**38EA82**	50
130mm	**6DB83**	10	**38EA83**	50
140mm	**6DB84**	10	—	—
150mm	**6DB85**	5	—	—
M8-1.25 Thread, 6mm Drive				
10mm	**6DB86**	50	**22UD75**	50
12mm	**6DB87**	50	**22UD76**	50
16mm	**6DB89**	50	**22UD77**	50
20mm	**6DB91**	50	**22UD78**	50
25mm	**22UC68**	50	**22UD79**	50
30mm	**22UC69**	50	**22UD80**	50
35mm	**22UC70**	50	**22UD81**	50
40mm	**22UC71**	50	**22UD82**	50
45mm	**22UC72**	50	**22UD83**	50
50mm	**22UC73**	50	**22UD84**	50
55mm	**22UC74**	50	**22UD85**	50
60mm	**22UC75**	50	**22UD86**	50
70mm	**22UC76**	50	**22UD87**	50
80mm	**22UC77**	50	**22UD88**	50
90mm	**22UC78**	25	**22UD89**	25
100mm	**22UC79**	25	**38EA84**	25
110mm	**22UC80**	25	—	—
120mm	**22UC81**	25	—	—
130mm	**22UC82**	25	—	—
140mm	**22UC83**	10	—	—
150mm	**22UC84**	10	—	—
M10-1.50 Thread, 6mm Drive				
12mm	**38DZ58**	50	—	—
35mm	**38DZ59**	50	—	—
55mm	**38DZ60**	25	—	—
M10-1.50 Thread, 8mm Drive				
16mm	**22UC85**	50	**22UD90**	50
20mm	**22UC86**	50	**22UD91**	50
25mm	**22UC87**	50	**22UD92**	50
30mm	**22UC88**	50	**22UD93**	50
35mm	**22UC89**	50	**22UD94**	50
40mm	**22UC90**	25	**22UD95**	25
45mm	**22UC91**	25	**22UD96**	25
50mm	**22UC92**	25	**22UD97**	25
55mm	**22UC93**	25	**38EA85**	25
60mm	**22UC94**	25	**26LG89**	25
70mm	**22UC95**	25	**38EA86**	25
80mm	**22UC96**	25	**38EA87**	25
90mm	**22UC97**	25	**38EA88**	25
100mm	**22UC98**	25	**38EA89**	25
110mm	**22UC99**	10	—	—
120mm	**22UD01**	10	—	—
130mm	**22UD02**	10	—	—
140mm	**22UD03**	10	—	—
150mm	**22UD04**	10	—	—

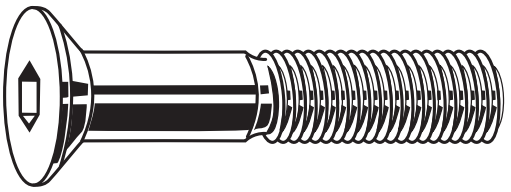
Length	A2 Stainless Steel Plain Item No.	Pkg. Qty.	A4 Stainless Steel Plain Item No.	Pkg. Qty.
M12-1.75 Thread, 10mm Drive				
16mm	**22UD05**	25	—	—
20mm	**22UD06**	25	**22UD98**	25
25mm	**38DZ63**	25	**22UD99**	25
30mm	**22UD08**	25	**22UE01**	25
35mm	**22UD09**	25	**22UE02**	25
40mm	—	—	**22UE03**	25
45mm	—	—	**22UE04**	25
50mm	—	—	**22UE05**	25
55mm	**22UD13**	25	**38EA90**	25
60mm	**38DZ64**	25	**22UE06**	25
65mm	**6DE51**	5	—	—
70mm	**22UD15**	10	**38EA91**	25
75mm	**22UD16**	10	—	—
80mm	**22UD17**	10	**38EA92**	25
90mm	**22UD18**	10	—	—
100mm	**22UD19**	10	**38EA93**	10
110mm	**22UD20**	10	—	—
120mm	**22UD21**	10	**26LG90**	10
130mm	**22UD22**	10	—	—
140mm	**22UD23**	10	—	—
150mm	**22UD24**	10	—	—
M14-2.00 Thread, 12mm Drive				
40mm	**26LG84**	25	—	—
50mm	**26LG85**	10	**38EA94**	10
60mm	**26LG86**	10	—	—
M16-2.00 Thread, 14mm Drive				
25mm	**22UD25**	10	—	—
30mm	**38DZ65**	25	**26LG91**	10
35mm	**22UD27**	10	**38EA95**	10
40mm	**22UD28**	10	—	—
45mm	**22UD29**	10	**38EA96**	10
50mm	**22UD30**	10	—	—
55mm	**22UD31**	10	**38EA97**	10
60mm	**22UD32**	10	—	—
70mm	**22UD33**	5	**26LG92**	5
80mm	**22UD34**	5	**26LG93**	5
90mm	**22UD35**	5	**38EA98**	10
100mm	**22UD36**	5	**38EA99**	10
110mm	**22UD37**	5	—	—
120mm	**22UD38**	5	—	—
M20-2.50 Thread, 17mm Drive				
40mm	**26LG87**	5	—	—
45mm	**38DZ68**	5	**38EC01**	5
50mm	**22UD39**	5	—	—
60mm	**22UD40**	5	—	—
70mm	**22UD41**	5	—	—
80mm	**22UD42**	5	—	—
90mm	**38DZ69**	5	—	—
100mm	—	—	**26LG94**	5
120mm	**38DZ70**	5	—	—
130mm	—	—	**38EC02**	5
M24-3.00 Thread, 19mm Drive				
60mm	**38DZ71**	5	—	—
70mm	**38DZ72**	5	—	—
80mm	**38DZ73**	5	—	—
100mm	**38DZ74**	5	—	—

Alloy Steel Flat-Head Cap Screws

- Meet ASME B18.3 standards



Length	Alloy Steel Plain Item No.	Pkg. Qty.	Alloy Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 0.035" Drive						
1/8"	26LC98	100	—	—	—	—
1/4"	26LD01	100	—	—	—	—
3/8"	26LD03	100	—	—	—	—
1/2"	26LD04	100	—	—	—	—
5/8"	26LD05	100	—	—	—	—
3/4"	26LD06	100	—	—	—	—
1"	26LD07	100	—	—	—	—
#1-72 Thread, 0.050" Drive						
1/8"	26LD08	100	—	—	—	—
1/4"	26LD10	100	—	—	—	—
3/8"	26LD12	100	—	—	—	—
1/2"	26LD13	100	—	—	—	—
5/8"	26LD14	100	—	—	—	—
1"	26LD16	100	—	—	—	—
#2-56 Thread, 0.050" Drive						
1/8"	26KY45	100	—	—	—	—
9/16"	26KY46	100	—	—	—	—
1/4"	26KY47	100	—	—	—	—
3/8"	26KY49	100	—	—	—	—
1/2"	26KY50	100	—	—	—	—
5/8"	26KY51	100	—	—	—	—
3/4"	26KY52	100	—	—	—	—
7/8"	26KY53	100	—	—	—	—
1"	26KY54	100	—	—	—	—
#3-48 Thread, 1/16" Drive						
1/4"	26KY56	100	—	—	—	—
3/8"	26KY58	100	—	—	—	—
1/2"	26KY59	100	—	—	—	—
5/8"	26KY60	100	—	—	—	—
3/4"	26KY61	100	—	—	—	—
1"	26KY62	100	—	—	—	—
#4-40 Thread, 1/16" Drive						
1/8"	—	—	5MYG0	50	—	—
9/16"	26KY63	100	—	—	—	—
1/4"	26KY64	100	—	—	5YPR3	100
9/16"	26KY65	100	—	—	—	—
3/8"	26KY66	100	—	—	5YPR4	100
1/2"	26KY68	100	—	—	5YPR5	100
5/8"	26KY69	100	—	—	5MJN7	100
3/4"	26KY70	100	—	—	5MJN8	100
7/8"	26KY71	100	—	—	—	—
1"	26KY72	100	—	—	—	—
1 1/4"	26KY73	100	—	—	—	—
#4-48 Thread, 1/16" Drive						
1/4"	26LD17	100	—	—	—	—
3/8"	26LD18	100	—	—	—	—
1/2"	26LD19	100	—	—	—	—
5/8"	26LD20	100	—	—	—	—
3/4"	26LD21	100	—	—	—	—
1"	26LD22	100	—	—	—	—
#5-40 Thread, 5/64" Drive						
1/4"	26KY74	100	—	—	5MJN9	100
3/8"	26KY75	100	—	—	5MJP0	100
1/2"	26KY76	100	—	—	5MJP1	100
5/8"	26KY77	100	—	—	5MJP2	100
3/4"	26KY78	100	—	—	5MJP3	100
1"	26KY79	100	—	—	—	—
1 1/4"	26KY80	100	—	—	—	—
1 1/2"	26KY81	100	—	—	—	—
#6-32 Thread, 5/64" Drive						
1/4"	26KY83	100	—	—	5YPR6	100
5/16"	26KY84	100	—	—	—	—
3/8"	—	—	4XU63	100	5YPR7	100
1/2"	26KY86	100	—	—	5YPR8	100
5/8"	26KY87	100	—	—	5YPR9	100
3/4"	26KY88	100	—	—	5MJP4	100
1"	26KY90	100	—	—	—	—
1 1/4"	26KY91	100	—	—	—	—
1 1/2"	26KY92	100	—	—	—	—
1 3/4"	26KY93	100	—	—	—	—
2"	26KY94	100	—	—	—	—
2 1/4"	26KY95	100	—	—	—	—
2 1/2"	26KY96	100	—	—	—	—
#6-40 Thread, 5/64" Drive						
1/4"	26LD23	100	—	—	—	—
3/8"	26LD24	100	—	—	—	—
1/2"	26LD25	100	—	—	—	—
5/8"	26LD26	100	—	—	—	—
3/4"	26LD27	100	—	—	—	—
1"	26LD28	100	—	—	—	—
#8-32 Thread, 3/32" Drive						
1/4"	26KY97	100	—	—	—	—
5/16"	26KY98	100	—	—	—	—
3/8"	—	—	4XU66	100	5YPT0	100
7/16"	26KY99	100	—	—	—	—
1/2"	26KZ01	100	—	—	5MJP5	100
5/8"	26KZ02	100	—	—	5MJP6	100
3/4"	26KZ03	100	—	—	5MJP7	100
7/8"	26KZ04	100	—	—	—	—
1"	26KZ05	100	—	—	5MJP8	100
1 1/4"	26KZ06	100	—	—	—	—
1 1/2"	26KZ07	100	—	—	—	—
1 3/4"	26KZ08	100	—	—	—	—
2"	26KZ09	100	—	—	—	—
2 1/4"	26KZ10	100	—	—	—	—
2 1/2"	26KZ11	100	—	—	—	—
#8-36 Thread, 3/32" Drive						
3/8"	26LD29	100	—	—	—	—
1/2"	26LD30	100	—	—	—	—
5/8"	26LD31	100	—	—	—	—
3/4"	26LD32	100	—	—	—	—
1"	26LD33	100	—	—	—	—
#10-24 Thread, 1/8" Drive						
1/4"	26KZ12	100	—	—	—	—
3/8"	—	—	4XU70	100	—	—
7/16"	26KZ14	100	—	—	—	—
1/2"	26KZ15	100	—	—	5MJR0	100
5/8"	26KZ16	100	—	—	5MJR1	100
3/4"	26KZ17	100	—	—	5MJR2	100
7/8"	26KZ18	100	—	—	—	—
1"	26KZ19	100	—	—	5MJR3	100
1 1/4"	26KZ20	100	—	—	5MJR4	100
1 1/2"	26KZ21	100	—	—	5MJV2	100
1 3/4"	26KZ22	100	—	—	—	—
2"	26KZ23	100	—	—	—	—
2 1/4"	26KZ24	100	—	—	—	—
2 1/2"	26KZ25	100	—	—	—	—
3"	26KZ26	100	—	—	—	—
#10-32 Thread, 1/8" Drive						
1/4"	26LD34	100	—	—	—	—
3/8"	—	—	4XY10	100	5YPV7	100
1/2"	26LD37	100	—	—	5MJR5	100
5/8"	—	—	4XY12	100	5MJR6	100
3/4"	26LD38	100	—	—	5MJR7	100
7/8"	26LD39	100	—	—	—	—
1"	26LD40	100	—	—	5MJR8	100
1 1/4"	26LD42	100	—	—	5MJR9	100
1 1/2"	26LD43	100	—	—	5MJV3	100
1 3/4"	26LD44	100	—	—	—	—
2"	26LD45	100	—	—	—	—
2 1/4"	26LD46	100	—	—	—	—
2 1/2"	26LD47	100	—	—	—	—
3"	26LD48	100	—	—	—	—
1/4"-20 Thread, 5/32" Drive						
3/8"	—	—	4XU74	100	5MJT0	100
1/2"	26KZ27	100	—	—	5MJT1	100
5/8"	26KZ28	100	—	—	5MJT2	100
3/4"	26KZ29	100	—	—	5MJT3	100
7/8"	26KZ30	100	—	—	—	—
1"	26KZ31	100	—	—	5MJT4	100
1 1/4"	26KZ33	100	—	—	5MJT5	100
1 1/2"	26KZ34	100	—	—	5MJT6	100
1 3/4"	26KZ35	100	—	—	5MJV4	100
2"	26KZ36	50	5MYP7	100	5MJV5	100
2 1/4"	26KZ37	50	—	—	—	—
2 1/2"	26KZ38	50	—	—	—	—
2 3/4"	26KZ39	50	—	—	—	—
3"	26KZ40	25	—	—	—	—
3 1/2"	26KZ41	25	—	—	—	—
4"	26KZ42	25	—	—	—	—
1/4"-28 Thread, 5/32" Drive						
3/8"	26LD49	100	—	—	5MJT7	100
1/2"	26LD50	100	—	—	5MJT8	100
5/8"	26LD51	100	—	—	5MJT9	100
3/4"	26LD52	100	—	—	5MJU0	100
7/8"	26LD53	100	—	—	—	—
1"	26LD54	100	—	—	5MJU1	100
1 1/4"	26LD55	100	—	—	5MJU2	100
1 1/2"	26LD56	100	—	—	5MJU3	100
1 3/4"	26LD57	100	5MYH3	25	—	—
2"	26LD58	50	5MYH4	25	—	—
2 1/4"	26LD59	50	—	—	—	—
2 1/2"	26LD60	50	—	—	—	—
3"	26LD61	25	—	—	—	—
3 1/2"	26LD62	25	—	—	—	—
5/16"-18 Thread, 3/16" Drive						
1/2"	26KZ44	100	—	—	5YPT1	100
5/8"	26KZ45	100	—	—	5YPT2	100
3/4"	26KZ46	100	—	—	5YPT3	100
7/8"	26KZ47	100	—	—	—	—
1"	26KZ48	50	—	—	5YPT4	100
1 1/4"	26KZ50	50	—	—	—	—
1 1/2"	26KZ51	50	—	—	—	—
1 3/4"	26KZ52	50	—	—	5MJV6	100
2"	26KZ53	50	—	—	5MJV7	100
2 1/4"	26KZ54	25	5MYH6	50	5MJV8	100
2 1/2"	26KZ55	25	—	—	5MJV9	100
2 3/4"	26KZ56	25	—	—	—	—
3"	26KZ57	25	—	—	—	—
3 1/2"	26KZ58	25	—	—	—	—
4"	26KZ59	10	—	—	—	—
5/16"-24 Thread, 3/16" Drive						
1/2"	26LD64	100	—	—	5YPV9	100
5/8"	26LD65	100	—	—	5YPW0	100
3/4"	26LD66	100	—	—	5YPW1	100
7/8"	26LD67	100	—	—	—	—
1"	26LD68	50	—	—	5YPW2	100
1 1/4"	26LD69	50	5MYG8	100	5YPW3	100
1 1/2"	26LD70	50	—	—	—	—
1 3/4"	26LD71	50	5MYG9	25	—	—
2"	26LD72	50	—	—	—	—
2 1/4"	26LD73	25	—	—	—	—
2 1/2"	26LD74	25	—	—	—	—
3"	26LD75	25	—	—	—	—
3 1/2"	26LD76	25	—	—	—	—
3/8"-16 Thread, 7/32" Drive						
1/2"	26KZ60	50	—	—	5YPT5	100
5/8"	26KZ61	50	—	—	5YPT6	100
3/4"	26KZ62	50	—	—	5YPT7	100
7/8"	26KZ63	50	—	—	—	—
1"	26KZ64	50	—	—	5RVL2	100
1 1/4"	26KZ65	50	—	—	—	—
1 1/2"	26KZ67	25	—	—	5YPT8	100
1 3/4"	26KZ68	25	—	—	5RVL4	50
2"	26KZ69	25	5MYP6	50	—	—
2 1/4"	26KZ70	25	5MYH7	50	5MJW0	50
2 1/2"	26KZ71	25	—	—	5MJW1	50
2 3/4"	26KZ72	25	—	—	—	—
3"	26KZ73	10	5MYH9	25	5YPT9	50
3 1/2"	26KZ74	10	—	—	—	—
4"	26KZ75	10	—	—	—	—
4 1/2"	26KZ76	10	—	—	—	—
5"	26KZ77	10	—	—	—	—
5 1/2"	26KZ78	10	—	—	—	—
6"	26KZ79	10	—	—	—	—
3/8"-24 Thread, 7/32" Drive						
5/8"	26LD78	50	—	—	5YPW4	100
3/4"	26LD79	50	—	—	5YPW5	100
1"	26LD81	50	—	—	5YPW6	100
1 1/4"	26LD82	50	—	—	5YPW7	100
1 1/2"	26LD83	25	—	—	5YPW8	100
1 3/4"	26LD84	25	—	—	—	—
2"	26LD85	25	—	—	—	—
2 1/4"	26LD86	25	—	—	—	—
2 1/2"	26LD87	25	—	—	—	—
2 3/4"	26LD88	25	—	—	—	—
3"	26LD89	10	—	—	—	—
3 1/4"	26LD90	10	—	—	—	—
3 1/2"	26LD91	10	—	—	—	—
7/16"-14 Thread, 1/4" Drive						
3/4"	26KZ80	25	—	—	5MJU4	100
1"	26KZ82	25	—	—	5MJU5	100
1 1/4"	26KZ83	25	—	—	5MJU6	50
1 1/2"	26KZ84	25	—	—	5MJU7	50
1 3/4"	26KZ85	10	5MYH2	25	—	—
2"	26KZ86	10	—	—	—	—
2 1/4"	26KZ87	10	—	—	—	—
2 1/2"	26KZ88	10	—	—	—	—
3"	26KZ89	10	—	—	—	—
3 1/2"	26KZ90	5	—	—	—	—
4"	26KZ91	5	—	—	—	—
7/16"-20 Thread, 1/4" Drive						
3/4"	26LD92	25	—	—	—	—
1"	26LD93	25	—	—	—	—
1 1/4"	26LD94	25	—	—	—	—
1 1/2"	26LD95	25	—	—	—	—
1 3/4"	26LD96	10	—	—	—	—
2"	26LD97	10	—	—	—	—
2 1/2"	26LD98	10	—	—	—	—
3"	26LD99	10	—	—	—	—
1/2"-13 Thread, 5/16" Drive						
3/4"	26KZ92	10	—	—	5YPV0	50
1"	26KZ94	10	—	—	5YPV1	50
1 1/4"	26KZ95	10	—	—	5YPV2	50
1 1/2"	26KZ97	10	—	—	5YPV3	50
1 3/4"	26KZ98	10	—	—	5YPV4	50
2"	26KZ99	10	—	—	5YPV5	50
2 1/4"	26LA01	10	—	—	5YPV6	25
2 1/2"	—	—	22TX94	10	—	—
2 3/4"	26LA02	10	—	—	—	—
3"	26LA03	5	5MYP8	25	—	—
3 1/4"	26LA04	5	—	—	—	—
3 1/2"	26LA05	5	—	—	—	—
4"	26LA06	5	—	—	—	—
4 1/2"	26LA07	5	—	—	—	—
5"	26LA08	5	—	—	—	—
5 1/2"	26LA09	5	—	—	—	—
6"	26LA10	5	—	—	—	—
1/2"-20 Thread, 5/16" Drive						
3/4"	26LE01	10	—	—	5YPV8	50
1"	26LE02	10	—	—	5YPW9	50
1 1/4"	26LE03	10	—	—	5YPX0	50
1 1/2"	26LE04	10	—	—	5YPX1	50
1 3/4"	26LE05	10	—	—	5YPX2	50
2"	26LE06	10	—	—	5YPX3	50
2 1/4"	26LE07	10	—	—	—	—
2 1/2"	26LE08	10	—	—	—	—
3"	26LE09	5	—	—	—	—
3 1/2"	26LE10	5	—	—	—	—
4"	26LE11	5	—	—	—	—
5/8"-11 Thread, 3/8" Drive						
1"	26LA13	10	—	—	—	—
1 1/4"	26LA14	10	—	—	5RVL6	25
1 1/2"	26LA15	10	—	—	—	—
1 3/4"	26LA16	10	—	—	—	—
2"	26LA17	5	—	—	—	—
2 1/4"	26LA18	5	—	—	5MJU8	25
2 1/2"	26LA19	5	—	—	5MJU9	25
2 3/4"	26LA20	5	—	—	—	—
3"	26LA21	5	5RVN0	25	—	—
3 1/2"	26LA22	5	—	—	—	—
4"	26LA23	5	—	—	—	—
4 1/2"	26LA24	5	—	—	—	—
5"	26LA25	5	—	—	—	—
5 1/2"	26LA26	5	—	—	—	—
6"	26LA27	5	—	—	—	—
6 1/2"	26LA28	5	—	—	—	—
7"	26LA29	5	—	—	—	—
8"	26LA30	5	—	—	—	—
5/8"-18 Thread, 3/8" Drive						
1"	26LE12	10	—	—	—	—
1 1/4"	26LE13	10	—	—	—	—
1 1/2"	26LE14	10	—	—	—	—
1 3/4"	26LE15	10	—	—	—	—
2"	26LE16	5	—	—	—	—
2 1/4"	26LE17	5	—	—	—	—
2 1/2"	26LE18	5	—	—	—	—
3"	26LE19	5	—	—	—	—
3 1/2"	26LE20	5	—	—	—	—
4"	26LE21	5	—	—	—	—
3/4"-10 Thread, 1/2" Drive						
1"	26LA31	5	—	—	—	—
1 1/4"	26LA32	5	—	—	—	—
1 1/2"	26LA33	5	5RVN1	25	—	—
1 3/4"	26LA34	5	—	—	—	—
2"	26LA35	5	5RVN3	25	—	—
2 1/4"	26LA36	5	—	—	—	—
2 1/2"	26LA37	5	—	—	5MJV0	25
3"	26LA39	5	—	—	5MJV1	25
3 1/4"	26LA40	5	—	—	—	—
3 1/2"	26LA41	5	—	—	—	—
4"	26LA42	5	—	—	—	—
4 1/2"	26LA43	5	—	—	—	—
5"	26LA44	5	—	—	—	—
6"	26LA45	5	—	—	—	—
3/4"-16 Thread, 1/2" Drive						
1 1/4"	26LE22	5	—	—	—	—
1 1/2"	26LE23	5	—	—	—	—
1 3/4"	26LE24	5	—	—	—	—
2"	26LE25	5	—	—	—	—
2 1/4"	26LE26	5	—	—	—	—
2 1/2"	26LE27	5	—	—	—	—
3"	26LE28	5	1BE72	5	—	—
3 1/2"	26LE29	5	—	—	—	—
4"	26LE30	5	—	—	—	—
7/8"-9 Thread, 9/16" Drive						
2"	26LA49	5	—	—	—	—
2 1/2"	26LA50	5	—	—	—	—
3"	26LA51	5	—	—	—	—
3 1/2"	26LA52	5	—	—	—	—
4"	26LA53	5	—	—	—	—
4 1/2"	26LA54	5	—	—	—	—
5"	26LA55	5	—	—	—	—
6"	26LA56	1	—	—	—	—
1"-8 Thread, 5/8" Drive						
2"	26LA60	5	—	—	—	—
2 1/4"	26LA61	5	—	—	—	—
2 1/2"	26LA62	5	—	—	—	—
2 3/4"	26LA63	5	—	—	—	—
3"	26LA64	5	1BE78	1	—	—
3 1/2"	26LA65	5	—	—	—	—
4"	26LA66	5	—	—	—	—
4 1/2"	26LA67	5	—	—	—	—
5"	26LA68	5	—	—	—	—
6"	26LA69	1	—	—	—	—
1 1/4"-7 Thread, 7/8" Drive						
3"	26LA73	1	—	—	—	—
3 1/2"	26LA74	1	—	—	—	—
4"	26LA75	1	—	—	—	—
5"	26LA76	1	—	—	—	—



18-8 Stainless Steel Flat-Head Cap Screws

Length	Item No.	Pkg. Qty.
#0-80 Thread, 0.035" Drive		
1/8"	26LE31	100
3/16"	26LE32	100
1/4"	26LE33	100
5/16"	26LE34	100
3/8"	26LE35	100
1/2"	26LE36	100
#1-72 Thread, 0.050" Drive		
1/8"	26LE37	100
3/16"	26LE38	100
1/4"	26LE39	100
5/16"	26LE40	100
3/8"	26LE41	100
1/2"	26LE42	100
#2-56 Thread, 0.050" Drive		
—	2WA55	100
—	2WA56	100
1/8"	29DP93	100
3/16"	2WA54	100
5/16"	2WA57	100
7/16"	2WA58	100
5/8"	26LA80	100
3/4"	26LA81	100
7/8"	26LA82	100
1"	29DP94	100
#3-48 Thread, 1/16" Drive		
3/16"	26LA83	100
1/4"	26LA84	100
5/16"	26LA85	100
3/8"	26LA86	100
1/2"	26LA87	100
5/8"	26LA88	100
3/4"	26LA89	100
1"	26LA90	100
#4-40 Thread, 1/16" Drive		
3/16"	5WEX3	100
1/4"	5WEX4	100
5/16"	5WEX5	100
3/8"	5WEX6	100
7/16"	29DP95	100
1/2"	5WEX7	100
5/8"	5WEX8	100
3/4"	26LA91	100
1"	26LA92	100
#5-40 Thread, 5/64" Drive		
1/4"	26LA93	100
5/16"	26LA94	100
3/8"	26LA95	100
1/2"	26LA96	100
5/8"	26LA97	100
3/4"	26LA98	100
1"	26LA99	100
#6-32 Thread, 5/64" Drive		
1/4"	5WEX9	100
5/16"	5WEY0	100
3/8"	5WEY1	100
7/16"	5WEY2	100
1/2"	5WEY3	100
5/8"	5WEY4	100
3/4"	5WEY5	100
7/8"	26LC01	100
1"	5WEY6	100
1 1/4"	26LC02	100
1 1/2"	26LC03	100

Length	Item No.	Pkg. Qty.
#6-40 Thread, 5/64" Drive		
3/8"	26LE43	100
1"	26LE44	100
#8-32 Thread, 3/32" Drive		
1/4"	5WEY7	100
5/16"	26LC04	100
3/8"	5WEY8	100
7/16"	5WEY9	100
1/2"	5WEZ0	100
5/8"	5WEZ1	100
3/4"	5WEZ2	100
7/8"	26LC05	100
1"	5WEZ3	100
1 1/4"	26LC06	100
1 1/2"	26LC07	100
1 3/4"	26LC08	100
#10-24 Thread, 1/8" Drive		
5/16"	26LC09	100
3/8"	5WEZ4	100
7/16"	26LC10	100
1/2"	5WEZ5	100
5/8"	5WEZ6	100
3/4"	5WEZ7	100
7/8"	26LC11	100
1"	5WEZ8	100
1 1/4"	5WEZ9	100
1 1/2"	5WFE5	100
1 3/4"	29DP96	100
2"	29DP97	100
#10-32 Thread, 1/8" Drive		
5/16"	26LE45	100
3/8"	5WFA0	100
7/16"	26LE46	100
1/2"	5WFA1	100
5/8"	5WFA2	100
3/4"	5WFA3	100
7/8"	5WFA4	100
1"	5WFA5	100
1 1/4"	5WFA6	100
1 1/2"	5WFE6	100
1 3/4"	26LE47	100
2"	26LE48	100
2 1/4"	26LE49	100
1/4"-20 Thread, 5/32" Drive		
3/8"	5WFA7	100
1/2"	5WFA8	100
5/8"	5WFA9	100
3/4"	5WFC0	100
7/8"	5WFC1	100
1"	22TX97	100
1 1/4"	22TX98	100
1 1/2"	22TX99	100
1 3/4"	22TY01	100
2"	26LC12	50
2 1/2"	22TY02	50
1/4"-28 Thread, 5/32" Drive		
3/8"	26LE50	100
1/2"	26LE51	100
5/8"	26LE52	100
3/4"	26LE53	100
7/8"	26LE54	100
1"	26LE55	100
1 1/4"	26LE56	100
1 1/2"	26LE57	100
1 3/4"	26LE58	100
2"	26LE59	50

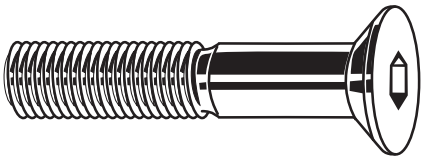
Length	Item No.	Pkg. Qty.
5/16"-18 Thread, 3/16" Drive		
1/2"	22TY03	100
5/8"	22TY04	100
3/4"	22TY05	100
7/8"	26LC14	100
1"	22TY06	50
1 1/4"	22TY07	50
1 1/2"	22TY08	50
1 3/4"	22TY09	50
2"	22TY10	50
2 1/4"	26LC15	25
2 1/2"	22TY11	25
3"	26LC16	25
3/8"-16 Thread, 7/32" Drive		
1/2"	26LC17	50
5/8"	26LC18	50
3/4"	26LC19	50
7/8"	26LC20	50
1"	22TY12	50
1 1/4"	22TY13	50
1 1/2"	22TY14	25
1 3/4"	22TY15	25
2"	22TY16	25
2 1/4"	26LC21	25
2 1/2"	26LC22	25
3"	26LC23	10
1/2"-13 Thread, 5/16" Drive		
3/4"	5WFD9	10
7/8"	26LC24	10
1"	5WFE0	10
1 1/4"	5WFE1	10
1 1/2"	5WFE2	10
1 3/4"	5WFE3	10
2"	22TY17	10
2 1/4"	26LC25	10
2 1/2"	22TY18	10
3"	2WB39	5
3 1/2"	26LC26	5
4"	26LC27	5
5/8"-11 Thread, 3/8" Drive		
1"	26LC28	10
1 1/4"	26LC29	10
1 1/2"	26LC30	10
1 3/4"	26LC31	10
2"	26LC32	5
2 1/4"	26LC33	5
2 1/2"	26LC34	5
3"	26LC35	5
3 1/2"	26LC36	5
4"	26LC37	5
3/4"-10 Thread, 1/2" Drive		
1 1/4"	26LC38	5
1 1/2"	26LC39	5
1 3/4"	26LC40	5
2"	26LC41	5
2 1/2"	26LC42	5
3"	26LC43	5
3 1/2"	26LC44	5
4"	26LC45	5

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





Metric Alloy Steel Flat-Head Cap Screws

Length	A2 Stainless Steel Plain Item No.	Pkg. Qty.	A4 Stainless Steel Plain Item No.	Pkg. Qty.
M2-0.40 Thread, 1.3mm Drive				
8mm	—	—	**6DV38**	10
10mm	—	—	**6DV39**	10
12mm	—	—	**6DV40**	10
16mm	—	—	**6DV41**	10
M3-0.50 Thread, 2mm Drive				
6mm	—	—	**6DV42**	50
8mm	—	—	**6DV43**	100
10mm	—	—	**6DV44**	100
12mm	—	—	**6DV45**	100
14mm	**38DZ75**	50	—	—
16mm	—	—	**6DV46**	100
20mm	—	—	**6DV47**	100
25mm	—	—	**6DV48**	50
30mm	**6DV87**	50	—	—
40mm	**38DZ76**	50	—	—
M4-0.70 Thread, 2.50mm Drive				
6mm	—	—	**6DV49**	100
8mm	—	—	**26LF84**	50
10mm	—	—	**26LF85**	50
12mm	—	—	**26LF86**	50
14mm	**38DZ77**	50	—	—
16mm	—	—	**26LF87**	50
18mm	**26LF48**	50	—	—
20mm	—	—	**26LF88**	50
25mm	—	—	**6DV55**	25
30mm	—	—	**6DV56**	10
40mm	**29DJ60**	50	**29DK20**	50
45mm	**6DV98**	50	—	—
50mm	**26LF51**	50	—	—
M5-0.80 Thread, 3mm Drive				
8mm	—	—	**26LF89**	50
10mm	—	—	**26LF90**	50
12mm	—	—	**38EC03**	50
16mm	—	—	**26LF91**	50
18mm	**6DY15**	50	—	—
20mm	**26LF55**	50	**26LF92**	50
25mm	**26LF56**	50	**38EC04**	50
30mm	**29DJ62**	50	**26LF93**	50
40mm	**26LF57**	50	**26LF94**	50
60mm	**38DZ78**	50	—	—
M6-1.00 Thread, 4mm Drive				
8mm	**26LF58**	50	**26LF95**	50
10mm	**26LF59**	50	**26LF96**	50
12mm	**26LF60**	50	**26LF97**	50
14mm	**6DY26**	50	—	—
16mm	**26LF61**	50	**26LF98**	50
18mm	**38DZ79**	50	—	—
20mm	**26LF62**	50	**26LF99**	50
25mm	**26LF63**	50	**38EC05**	50
30mm	**29DJ63**	50	**26LG01**	50
35mm	**29DJ64**	50	**26LG02**	50
40mm	**26LF64**	50	**26LG03**	50
50mm	**26LF65**	50	**29DK21**	50
55mm	**38DZ80**	50	—	—
60mm	—	—	**26LG04**	50
M8-1.25 Thread, 5mm Drive				
12mm	**26LF66**	50	**26LG05**	50
14mm	**6DY40**	25	—	—
16mm	**26LF67**	50	**26LG06**	50
20mm	**26LF68**	50	**26LG07**	50
25mm	**26LF69**	50	**26LG08**	50
30mm	**26LF70**	50	**26LG09**	50
35mm	**26LF71**	50	**6DV75**	5
40mm	**26LF72**	50	**38EC06**	50
50mm	**26LF73**	50	**38EC07**	50
55mm	**38DZ81**	50	—	—
M10-1.50 Thread, 6mm Drive				
16mm	**29DJ65**	50	**26LG10**	50
20mm	**26LF74**	50	**26LG11**	50
25mm	**26LF75**	50	**38EC08**	50
30mm	**26LF76**	50	**26LG12**	50
40mm	**26LF77**	25	**29DK22**	25
45mm	**38DZ82**	25	—	—
50mm	**26LF78**	25	**29DK23**	25
55mm	**38DZ83**	25	—	—
80mm	**38DZ84**	25	—	—
90mm	**38DZ85**	25	—	—
120mm	**38DZ86**	25	—	—
M12-1.75 Thread, 8mm Drive				
20mm	**29DJ66**	25	**26LG13**	25
25mm	**26LF79**	25	**38EC09**	25
30mm	**29DJ67**	25	**26LG14**	25
40mm	**26LF80**	25	**29DK24**	25
45mm	**38DZ87**	25	—	—
50mm	**26LF81**	25	**26LG15**	25
90mm	**38DZ88**	10	—	—
100mm	**38DZ89**	10	—	—
M16-2.00 Thread, 10mm Drive				
30mm	**26LF82**	10	—	—
50mm	**26LF83**	10	—	—
70mm	**38DZ90**	10	—	—
M20-2.50 Thread, 12mm Drive				
50mm	**38DZ91**	10	—	—

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**



Metric Alloy Steel Button-Head Cap Screws

Meet ISO 7380 standards.

Length	Class 10.9 Steel Black Oxide Item No.	Pkg. Qty.	A2 Stainless Steel Plain Item No.	Pkg. Qty.
M2-0.40 Thread, 1.3mm Drive				
3mm	**6EB89**	10	—	—
4mm	**6EB90**	10	—	—
6mm	**6EB91**	10	—	—
12mm	**6EB92**	10	—	—
M2.5-0.45 Thread, 1.5mm Drive				
3mm	**6EB93**	10	—	—
6mm	**6EB94**	10	—	—
12mm	**6EB95**	10	—	—
M3-0.50 Thread, 2mm Drive				
5mm	**6EB96**	50	—	—
10mm	—	—	**6EB15**	100
14mm	**6EE11**	100	**6EB17**	100
35mm	—	—	**6EB21**	100
40mm	—	—	**6EB22**	25
M4-0.70 Thread, 2.50mm Drive				
14mm	**6EE19**	100	**6EB27**	50
20mm	—	—	**6EB29**	50
40mm	—	—	**6EB33**	25
50mm	—	—	**6EB34**	10
M5-0.80 Thread, 3mm Drive				
14mm	**6EE30**	100	**6EB38**	50

Length	Class 10.9 Steel Black Oxide Item No.	Pkg. Qty.	A2 Stainless Steel Plain Item No.	Pkg. Qty.
18mm	**6EE32**	100	—	—
20mm	—	—	**6EB40**	50
22mm	**6EE34**	100	—	—
60mm	—	—	**6EB46**	10
M6-1.00 Thread, 4mm Drive				
8mm	**6EE40**	100	—	—
10mm	**6EE41**	100	—	—
12mm	**6EE42**	100	**6EB49**	50
14mm	**6EE43**	100	—	—
16mm	**6EE44**	100	—	—
18mm	**6EE45**	50	—	—
20mm	**6EE46**	100	—	—
22mm	**6EE47**	50	—	—
30mm	**6EE49**	100	—	—
M8-1.25 Thread, 5mm Drive				
18mm	**6EE60**	50	—	—
M10-1.50 Thread, 6mm Drive				
18mm	**6EE73**	5	—	—
M12-1.75 Thread, 8mm Drive				
16mm	**6EE81**	5	—	—
45mm	—	—	**6EB85**	5
55mm	—	—	**6EB87**	5
60mm	—	—	**6EB88**	5



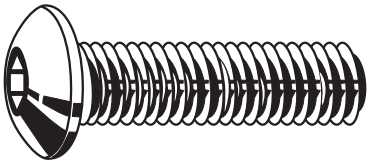
Alloy Steel Low Head Cap Screws

- Black oxide finish

Meet ASTM A574, ASME B18.3 standard.

L	GA Item No.	Pkg. Qty.
#8-32 Thread Size 9/64" Drive Size		
3/8"	**1AYK7**	100
3/8"	**5YPX4**	100
1/2"	**1AYK8**	100
1/2"	**5YPX5**	100
3/4"	**1AYK9**	100
3/4"	**5YPX6**	100
1"	**1AYL1**	100
1"	**5YPX7**	100
#10-24 Thread Size 3/32" Drive Size		
3/8"	**1AYL2**	100
#10-24 Thread Size 5/32" Drive Size		
3/8"	**5YPX8**	100
1/2"	**1AYL3**	100
#10-24 Thread Size 3/32" Drive Size		
1/2"	**5YPX9**	100
3/4"	**1AYL4**	100
#10-24 Thread Size 5/32" Drive Size		
3/4"	**5YPY0**	100
#10-32 Thread Size 5/32" Drive Size		
3/8"	**1AYL5**	100
#10-32 Thread Size 3/32" Drive Size		
1/2"	**1AYL6**	100
5/8"	**1AYL7**	100
3/4"	**1AYL8**	100
1/4"-20 Thread Size 1/8" Drive Size		
3/8"	**1AYL9**	100
3/8"	**5YPY1**	100
1/2"	**1AYN1**	100
1/2"	**5YPY2**	100
5/8"	**1AYN2**	100
5/8"	**5YPY3**	100
3/4"	**1AYN3**	100
3/4"	**5YPY4**	100
1"	**1AYN4**	50
1"	**5YPY5**	100

L	GA Item No.	Pkg. Qty.
5/16"-18 Thread Size 5/32" Drive Size		
1/2"	**1AYN5**	50
1/2"	**5YPY6**	100
3/4"	**1AYN6**	25
3/4"	**5YPY7**	100
1"	**1AYN7**	25
1"	**5YPY8**	100
1 1/4"	**1AYN8**	25
1 1/4"	**5YPY9**	100
1 1/2"	**1AYN9**	25
5/16"-18 Thread Size 5/16" Drive Size		
1 1/2"	**5YPZ0**	100
3/8"-16 Thread Size 3/16" Drive Size		
1/2"	**1AYP1**	25
1/2"	**5YPZ1**	100
3/4"	**1AYP2**	25
3/4"	**5YPZ2**	100
1"	**1AYP3**	25
1"	**5YPZ3**	100
1 1/4"	**1AYP4**	25
1 1/4"	**5YPZ4**	100
1 1/2"	**1AYP5**	25
1 1/2"	**5YPZ5**	100
1/2"-13 Thread Size 1/4" Drive Size		
1"	**1AYP6**	10
1"	**5YPZ6**	50
1 1/8"	**1AYP8**	10
1 1/4"	**1AYP7**	10
1 1/4"	**5YPZ7**	50
1 1/2"	**5YPZ8**	50



Alloy Steel Button-Head Cap Screws

- Meet ASME B18.3 and ASTM standards

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Alloy Steel Black Oxide Item No.	Pkg. Qty.	Made In North America Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 0.035" Drive						
1/8"	26LE87	100	29DL76	100	—	—
3/16"	26LE88	100	29DL77	100	—	—
1/4"	26LE89	100	29DL78	100	—	—
5/16"	26LE90	100	29DL79	100	—	—
3/8"	26LE91	100	29DL80	100	—	—
1/2"	26LE92	100	29DL81	100	—	—
#1-64 Thread, 0.050" Drive						
3/8"	26LE61	100	—	—	—	—
1/2"	26LE62	100	29DL49	100	—	—
3/4"	26LE63	100	29DL50	100	—	—
#1-64 Thread, 1/8" Drive						
3/8"	—	—	29DL48	100	—	—
#1-72 Thread, 0.050" Drive						
1/8"	26LE93	100	—	—	—	—
3/16"	26LE94	100	29DL83	100	—	—
1/4"	26LE95	100	29DL84	100	—	—
5/16"	26LE96	100	29DL85	100	—	—
3/8"	26LE97	100	29DL86	100	—	—
1/2"	26LE98	100	29DL87	100	—	—
5/8"	26LE99	100	—	—	—	—
3/4"	26LF01	100	29DL89	100	—	—
1 1/4"	—	—	29DL88	100	—	—
#2-56 Thread, 0.050" Drive						
1/8"	2WB40	100	1BE80	100	—	—
3/16"	2WB41	100	1BE82	100	—	—
1/4"	2WB42	100	1BE84	100	—	—
5/16"	2WB43	100	1BE86	100	—	—
3/8"	2WB44	100	1BE88	100	—	—
1/2"	2WB45	100	1BE90	100	—	—
5/8"	2WB46	100	29DL51	100	—	—
3/4"	22TY44	100	29DL52	100	—	—
1"	29DP79	100	29DL53	100	—	—
#3-48 Thread, 1/16" Drive						
3/16"	26LE64	100	1BE92	100	—	—
1/4"	26LE65	100	1BE93	100	—	—
5/16"	26LE66	100	29DL54	100	—	—
3/8"	26LE67	100	1BE95	100	—	—
1/2"	26LE68	100	29DL55	100	—	—
5/8"	—	—	29DL56	100	—	—
3/4"	29DP81	100	29DL57	100	—	—
1"	29DP82	100	29DL58	100	—	—
#4-40 Thread, 1/16" Drive						
1/8"	2WB48	100	22TY19	100	—	—
3/16"	2WB49	100	1BE99	100	5YPN6	100
1/4"	2WB50	100	1BU11	100	5YPN7	100
5/16"	2WB51	100	1BU13	100	—	—
3/8"	2WB52	100	1BU15	100	5YPN8	100
7/16"	2WB53	100	29DL59	100	—	—
1/2"	2WB54	100	1BU17	100	5YPN9	100
5/8"	2WB55	100	1BU19	100	—	—
3/4"	2WB56	100	22TY20	100	—	—
7/8"	29DP83	100	22TY21	100	—	—
1"	2WB57	100	22TY22	100	—	—
#5-40 Thread, 5/64" Drive						
1/4"	26LE69	100	1BU27	100	—	—
3/8"	26LE71	100	1BU29	100	—	—
1/2"	26LE72	100	1BU31	100	—	—
5/8"	26LE73	100	—	—	—	—
3/4"	26LE74	100	29DL60	100	—	—
1"	26LE75	100	29DL61	100	—	—
#6-32 Thread, 5/64" Drive						
1/8"	—	—	1BU33	50	—	—
3/16"	2WB58	100	1BU35	100	—	—
1/4"	2WB59	100	1BU37	100	5YPP0	100
5/16"	2WB60	100	1BU39	100	—	—
3/8"	2WB61	100	1BU41	100	5YPP1	100
1/2"	2WB63	100	1BU43	100	5YPP2	100
5/8"	2WB64	100	1BU45	100	5YPP3	100
3/4"	2WB65	100	22TY23	100	—	—
7/8"	2WB66	100	22TY24	100	—	—
1"	2WB67	100	22TY25	100	—	—
1 1/4"	26LE76	100	22TY26	100	—	—
1 1/2"	22TY45	100	22TY27	100	—	—
2"	—	—	29DL62	100	—	—
#8-32 Thread, 3/32" Drive						
3/16"	2WB69	100	1BU56	100	—	—
1/4"	2WB70	100	1BU58	100	5YPP4	100
5/16"	2WB71	100	1BU60	100	—	—
3/8"	2WB72	100	1BU62	100	5MJW2	100
1/2"	2WB73	100	1BU64	100	5MJW3	100
5/8"	2WB74	100	1BU66	100	5MJW4	100
3/4"	2WB75	100	1BU68	100	5MJW5	100
7/8"	2WB76	100	—	—	—	—
1"	2WB77	100	1BU70	100	5YPP5	100
1 1/4"	26LE78	100	22TY28	100	—	—
1 1/2"	2WB78	100	22TY29	100	—	—
2"	—	—	22TY30	100	—	—
#10-24 Thread, 1/8" Drive						
1/4"	2WB79	100	1BU78	100	5YPP6	100
3/8"	2WB81	100	—	—	5YPP7	100
1/2"	2WB82	100	1BU82	100	5MJW6	100
5/8"	26LE79	100	1BU84	100	5MJW7	100
3/4"	2WB84	100	1BU86	100	5MJW8	100
7/8"	2WB85	100	1BU88	100	5MJW9	100
1"	2WB86	100	1BU90	100	5MJX0	100
1 1/4"	2WB87	100	22TY31	100	—	—
1 1/2"	22TY46	100	22TY32	100	—	—
1 3/4"	26LE81	100	—	—	—	—
2"	22TY47	100	22TW51	100	—	—
#10-32 Thread, 1/8" Drive						
1/4"	2WB90	100	1BU98	100	5YPP9	100
5/16"	2WB91	100	1BY10	100	—	—
3/8"	2WB92	100	1BY12	100	—	—
	—	—	5RVN5	100	—	—
1/2"	2WB94	100	1BY14	100	5MJX1	100
5/8"	2WB95	100	1BY16	100	5MJX2	100
3/4"	2WB96	100	1BY18	100	5MJX3	100
7/8"	2WB97	100	1BY20	100	5MJX4	100
1"	2WB98	100	1BY22	100	5MJX5	100
1 1/4"	2WB99	100	22TZ19	100	—	—
1 1/2"	22TZ25	100	22TZ20	100	—	—
1 3/4"	26LF02	100	22TZ21	100	—	—
2"	26LF03	100	22TW68	100	—	—
1 3/8"-16 Thread, 7/32" Drive						
1 3/4"	—	—	1CA28	25	—	—
1/4"-20 Thread, 5/32" Drive						
1/4"	—	—	1BY31	50	—	—
3/8"	3AXA4	100	1BY33	100	5MJX6	100
1/2"	3AWZ2	100	1BY35	100	5MJX7	100
5/8"	3AWZ4	100	1BY37	100	5MJX8	100
3/4"	3AWZ1	100	1BY39	100	5MJX9	100
7/8"	3AWZ6	100	5MYJ2	100	5MJY0	100
1"	22TY50	100	1BY43	100	—	—
	—	—	5YPP8	50	—	—
1 1/4"	22TY51	100	5MYJ3	50	—	—
1 1/2"	22TY52	100	29DL63	100	—	—
1 3/4"	22TY53	100	5MYJ5	50	—	—
2"	3AWZ5	50	1BY51	50	—	—
2 1/2"	—	—	22TY33	50	—	—
3"	—	—	1BY55	25	—	—
3 1/2"	—	—	29DL64	25	—	—
1/4"-28 Thread, 5/32" Drive						
1/4"	—	—	1BY57	50	—	—
3/8"	—	—	1BY59	100	5MJY1	100
1/2"	—	—	1BY61	100	5MJY2	100
5/8"	—	—	1BY63	100	5MJY3	100
3/4"	—	—	1BY65	100	5MJY4	100
1"	—	—	1BY67	100	5MJY5	100
1 1/2"	—	—	22TZ22	100	—	—
2"	26LF04	50	29DL90	50	—	—
5/16"-18 Thread, 3/16" Drive						
3/8"	26LE82	100	1BY71	100	5MJY6	100
1/2"	22TY54	100	1BY73	100	5MJY7	100
5/8"	22TY55	100	1BY75	100	5MJY8	100
3/4"	22TY56	100	1BY76	100	5MJY9	100
7/8"	26LE83	100	1BY78	100	5MJZ0	100
1"	22TY57	50	22TW52	50	5MJZ1	100
1 1/4"	22TY58	50	1BY82	50	—	—
1 1/2"	22TY59	50	1BY84	50	—	—
1 3/4"	22TY60	50	—	—	—	—
2"	22TY61	50	22TY37	50	—	—
2 1/4"	—	—	5MYJ6	25	—	—
2 1/2"	—	—	5MYJ7	25	—	—
5/16"-24 Thread, 3/16" Drive						
3/8"	29DR05	100	1BY92	100	5YPR0	100
1/2"	29DR06	100	1BY94	100	5MJZ2	100
5/8"	—	—	1BY96	100	5MJZ3	100
3/4"	—	—	1BY98	100	5MJZ4	100
1"	29DR07	50	22TW75	50	—	—
1 1/4"	—	—	5MYJ8	50	—	—
1 1/2"	29DR08	50	—	—	—	—
3/8"-16 Thread, 7/32" Drive						
1/2"	22TY62	50	22TY38	50	5MJZ6	50
5/8"	—	—	22TY39	50	5MJZ7	50
3/4"	22TY63	50	22TY40	50	5MJZ8	50
7/8"	—	—	22TY41	50	5MJZ9	50
1"	22TY64	50	1CA22	50	5MKA0	50
1 1/4"	22TY65	50	1CA24	50	5RVN4	50
1 1/2"	22TY66	25	22TW54	25	—	—
1 3/4"	22TY67	25	—	—	—	—
2"	22TY68	25	29DL65	25	—	—
2 1/4"	—	—	29DL66	25	—	—
2 1/2"	29DP84	25	29DL67	25	—	—
2 3/4"	—	—	1CA36	25	—	—
3"	22TY69	10	5MYK2	25	—	—
3/8"-24 Thread, 7/32" Drive						
1/2"	—	—	22TZ23	50	5RVN6	50
3/4"	—	—	22TZ24	50	5NTP1	50
1"	—	—	1CA43	50	5YPR2	50
1 1/2"	—	—	5MYK3	50	—	—
1/2"-13 Thread, 5/16" Drive						
3/4"	—	—	22TW56	10	—	—
1"	22TY70	10	22TW57	10	5MKA1	25
1 1/4"	22TY71	10	22TW62	10	5MKA2	25
1 1/2"	22TY72	10	22TW63	10	5MKA3	25
1 3/4"	22TY73	10	1CA55	10	—	—
2"	26LE84	10	29DL68	10	5MKA4	25
2 1/2"	26LE85	10	29DL69	10	—	—
3"	26LE86	5	29DL70	5	—	—
5/8"-11 Thread, 3/8" Drive						
1"	—	—	29DL71	10	—	—
1 1/4"	—	—	1CA63	10	5NTP3	25
1 1/2"	—	—	29DL72	10	5NTP4	25
2"	—	—	29DL73	5	5NTP5	25
2 1/2"	—	—	29DL74	5	—	—
3"	—	—	29DL75	5	—	—

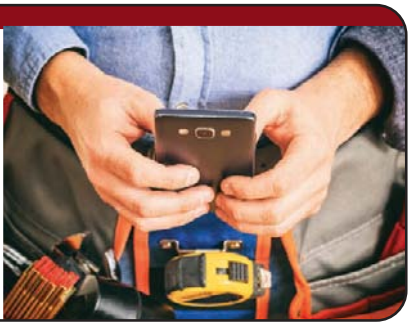
DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store

GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Shoulder Screw Information

Also called stripper bolts or shoulder bolts, shoulder screws are used frequently in pulleys and linkages. They also function as precision spacers or guide screws.

SHOULDER SCREW TYPES

Both types of shoulder screws are reusable and come in ISO metric and USS measurements.

Precision (Smooth Head)

Manufactured with more-exacting tolerances. Hex socket drive allows high-torque wrenching. Slotted drive permits deeper access in hard-to-reach places where a hex key can't reach. Phillips drive provides excellent torque control.

Standard (Knurled Head)

Dimensions meet ASME standards for inch sizes and ISO standards for metric sizes. Shoulder dia. tolerances: -0.002" to -0.004". Suitable for use in machinery and other critical mechanical applications. Screws feature a hex socket drive.

SPECIAL VARIATIONS

Hex Head

Allows easy tightening with an adjustable wrench.

Self-Locking

A nylon patch on screw threads bonds with the material being fastened to hold the screw firmly in place and prevent loosening from vibration. Not reusable.

SHOULDER SCREW DIMENSIONS

Standard												
Shoulder Dia.	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"
Thread Size	#4	#6	#8	#8	#10	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	7/8-9	1 1/8-7
Drive Size	5/64"	3/32"	3/32"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	7/8"
Thread Length	5/32"	3/16"	3/16"	3/16"	1/4"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/2"
Head Dia.	1/4"	9/32"	5/16"	5/16"	3/8"	7/16"	9/16"	3/4"	7/8"	1"	1 5/16"	1 3/4"	2 1/8"
Head Height	1/8"	1/8"	5/32"	5/32"	9/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
Metric													
Shoulder Dia.	3mm	4mm	5mm	6mm	8mm	10mm	12mm	16mm	20mm	24mm			
Thread Size	M2 x .40	M3 x .50	M4 x .70	M5 x .80	M6 x 1	M8 x 1.25	M10 x 1.5	M12 x 1.75	M16 x 2	M20 x 2.5			
Drive Size	2mm	2mm	2.5mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm			
Thread Length		5mm	7mm	9.5mm	11mm	13mm	16mm	18mm	22mm	27mm			
Head Dia.	5mm	6mm	9mm	10mm	13mm	16mm	18mm	24mm	30mm	36mm			
Head Height	2mm	3mm	4mm	4.5mm	5.5mm	7mm	9mm	11mm	14mm	16mm			

Shoulder Length	Brand	Item No.	Pkg. Qty.
1/4" Shoulder, 10-24 Thread			
1/4"	Fabory	1CA69	25
3/8"	Fabory	4XY17	25
1/2"	Fabory	4XY18	25
5/8"	Fabory	1CA71	25
3/4"	Fabory	4XY19	25
7/8"	Fabory	1CA73	10
1 1/2"	Fabory	31KG26	10
1 3/4"	Fabory	1CA75	10
2"	Fabory	1CA77	10
2 1/4"	Fabory	1CA79	10
2 1/2"	Fabory	1CA81	10
3"	Fabory	1CA83	10
5/16" Shoulder, 1/4-20 Thread			
1/4"	Fabory	1CA85	10
1/2"	Fabory	4XY24	10
7/8"	Fabory	1CA89	10
1 1/2"	Fabory	1CA90	5
1 3/4"	Fabory	1CA92	5
2"	Fabory	1CA94	5
2 1/4"	Fabory	1CA96	5
2 1/2"	Fabory	1CA98	5
3"	Fabory	1CB10	5
3/8" Shoulder, 5/16-18 Thread			
1/4"	Fabory	1CB12	10
3/8"	Fabory	31KG27	10
1/2"	Fabory	31KG28	10
5/8"	Fabory	31KG29	10
3/4"	Fabory	31KG30	10
7/8"	Fabory	1CB16	10
1"	Fabory	31KG31	10
1 1/4"	Fabory	31KG32	10
1 1/2"	Fabory	31KG33	10
1 3/4"	Fabory	31KG34	10
2"	Fabory	31KG35	10
2 1/4"	Fabory	1CB18	5
2 1/2"	Fabory	31KG36	5
2 3/4"	Fabory	1CB20	5
3"	Fabory	1CB22	5
3 1/4"	Fabory	1CB24	5
3 1/2"	Fabory	1CB26	5
3 3/4"	Fabory	1CB28	5
4"	Fabory	1CB30	5
4 1/2"	Fabory	1CB32	5
5"	Fabory	1CB34	5
6"	Fabory	1CB36	5
1/2" Shoulder, 3/8-16 Thread			
3/8"	Fabory	1CB38	5
1/2"	Fabory	4XY37	5
5/8"	Fabory	1CB40	5
3/4"	Fabory	31KG38	5
7/8"	Fabory	1CB42	5
1"	Fabory	31KG41	5
1 1/4"	Fabory	31KG42	5
1 1/2"	Fabory	31KG43	5
1 3/4"	Fabory	31KG44	5
2"	Fabory	31KG86	5
2 1/4"	Fabory	31KG87	5
2 1/2"	Fabory	31KG88	5
2 3/4"	Fabory	1CB44	5
3"	Fabory	31KG89	5
3 1/4"	Fabory	1CB46	5
3 1/2"	Fabory	1CB48	5

Shoulder Length	Brand	Item No.	Pkg. Qty.
3 3/4"	Fabory	1CB50	5
4"	Fabory	1CB52	5
4 1/4"	Fabory	1CB54	5
4 1/2"	Fabory	1CB56	5
4 3/4"	Fabory	1CB58	5
5"	Fabory	1CB60	5
5 1/2"	Fabory	1CB62	1
6"	Fabory	1CB64	1
5/8" Shoulder, 1/2-13 Thread			
1 1/4"	Fabory	31KG90	5
1 1/2"	Fabory	1CB66	1
1 3/4"	Fabory	1CB68	1
2"	Fabory	1CB70	1
2 1/4"	Fabory	1CB72	1
2 1/2"	Fabory	1CB74	1
2 3/4"	Fabory	1CB76	1
3"	Fabory	1CB78	1
3 1/4"	Fabory	1CB80	1
3 1/2"	Fabory	1CB82	1
3 3/4"	Fabory	1CB84	1
4"	Fabory	1CB86	1
4 1/4"	Fabory	1CB88	1
4 1/2"	Fabory	1CB90	1
4 3/4"	Fabory	1CB92	1
5"	Fabory	1CB94	1
5 1/2"	Fabory	1CB96	1
6"	Fabory	1CB98	1
3/4" Shoulder, 5/8-11 Thread			
1/2"	Fabory	1CE10	1
3/4"	Fabory	1CE12	1
1"	Fabory	1CE14	1
1 1/4"	Fabory	1CE16	1
1 1/2"	Fabory	1CE18	1
1 3/4"	Fabory	1CE20	1
2"	Fabory	1CE22	1
2 1/4"	Fabory	1CE24	1
2 1/2"	Fabory	1CE26	1
2 3/4"	Fabory	1CE28	1
3"	Fabory	1CE30	1
3 1/4"	Fabory	1CE32	1
3 1/2"	Fabory	1CE34	1
3 3/4"	Fabory	1CE36	1
4"	Fabory	1CE38	1
4 1/4"	Fabory	5MXV9	1
4 1/2"	Fabory	5MXW0	1
4 3/4"	Fabory	5MXW1	1
5"	Fabory	5MXW2	1
5 1/2"	Fabory	5MXW3	1
6"	Fabory	5MXW4	1
1" Shoulder, 3/4-10 Thread			
1"	Fabory	31KG94	1
1 1/2"	Fabory	31KG95	1
2"	Fabory	31KG97	1
2 1/2"	Fabory	31KG98	1
3"	Fabory	31KG99	1
3 1/2"	Fabory	31KH01	1
4"	Fabory	31KH02	1
5"	Fabory	31KH03	1
6"	Fabory	31KH04	1

Shoulder Length	Brand	Item No.	Pkg. Qty.
6mm Shoulder, M5x0.80mm Thread			
10mm	Fabory	6EU11	5
12mm	Fabory	6EU13	5
16mm	Fabory	6EU15	5
20mm	Fabory	6EU17	5
60mm	GA	6EU28	5
8mm Shoulder, M6x1mm Thread			
12mm	Fabory	6EU30	5
16mm	Fabory	6EU31	5
20mm	Fabory	6EU32	5
25mm	Fabory	6EU33	5
30mm	Fabory	6EU34	5
40mm	Fabory	6EU36	5
55mm	GA	6EU39	5
10mm Shoulder, M8x1.25mm Thread			
16mm	Fabory	6EU43	5
20mm	Fabory	6EU44	5
25mm	Fabory	6EU45	5
30mm	Fabory	6EU46	5
40mm	Fabory	6EU48	5
50mm	Fabory	6EU50	5
60mm	Fabory	6EU52	5
80mm	Fabory	6EU54	5
12mm Shoulder, M10x1.50mm Thread			
16mm	Fabory	6EU57	5
20mm	Fabory	6EU58	5
25mm	Fabory	6EU59	5
30mm	Fabory	6EU60	5
40mm	Fabory	6EU62	5
50mm	Fabory	6EU64	5
60mm	Fabory	6EU66	5
70mm	Fabory	6EU67	5
16mm Shoulder, M12x1.75mm Thread			
30mm	Fabory	6EU72	5
35mm	GA	6EU73	5
50mm	Fabory	6EU75	5
70mm	Fabory	31KG14	2
80mm	Fabory	31KG15	2
20mm Shoulder, M16x2mm Thread			
80mm	Fabory	31KG19	2
100mm	Fabory	31KG20	2
24mm Shoulder, M20x2.5mm Thread			
50mm	Fabory	31KG22	2
90mm	Fabory	31KG24	2



FABORY GA GRAINGER APPROVED CAMCAR

Alloy Steel Shoulder Screws

- Hex socket drive
- Thread class: 3A standard, 5g6g metric
- Tensile strength: 140,000 psi standard, 159,500 psi metric
- Shear strength (metric): 95,700 psi
- Shoulder length tolerance: ±0.005" standard, +0.25mm metric

Knurled head. Metric sizes meet ISO 7379.

Notes: Additional dimensional information, self-locking screws with nylon patch, and additional sizes are available on Grainger.com®; search for "shoulder screws."

Metric are 12.9 alloy steel; due to undercut between shoulder and thread, be sure to lower the tightening torque normally used for Class 12.9 screws.

Made in North America

Shoulder Length	Brand	Item No.	Pkg. Qty.
1/4" Shoulder, 10-24 Thread			
3/8"	GA	5YPC9	25
1/2"	GA	5YPD0	25
5/8"	GA	5YPD1	25
3/4"	GA	5YPD2	25
1 1/4"	GA	5YPD4	25
1 1/2"	GA	5YPD5	25
5/16" Shoulder, 1/4-20 Thread			
1/2"	GA	5YPD7	25
5/8"	GA	5YPD8	25
1 1/2"	GA	5YPE2	25
1 3/4"	GA	5YPE3	25
2"	GA	5YPE4	25
3/8" Shoulder, 5/16-18 Thread			
3/8"	GA	5YPE5	25
1/2"	GA	5YPE6	25
5/8"	GA	5YPE7	25
3/4"	GA	5YPE8	25
1"	GA	5YPE9	25
1 1/4"	GA	5YPF0	25
1 1/2"	GA	5YPF1	25
1 3/4"	GA	5YPF2	25
2"	GA	5YPF3	25
2 1/4"	GA	5YPF4	25
2 1/2"	GA	5YPF5	25
2 3/4"	GA	5YPF6	25
3"	GA	5YPF7	25
3 1/4"	GA	5YPF8	25
3 1/2"	GA	5YPF9	25
4"	GA	5YPG0	25
1/2" Shoulder, 3/8-16 Thread			
1/2"	GA	5YPG1	25
5/8"	GA	5YPG2	25
3/4"	GA	5YPG3	25
1"	GA	5YPG4	25
1 1/4"	GA	5YPG5	25
1 1/2"	GA	5YPG6	25
1 3/4"	GA	5YPG7	25
2"	GA	5YPG8	25
2 1/4"	GA	5YPG9	25
2 1/2"	GA	5YPH0	25

Made in North America

Shoulder Length	Brand	Item No.	Pkg. Qty.
2 3/4"	GA	5YPH1	25
3"	GA	5YPH2	25
3 1/4"	GA	5YPH3	25
3 1/2"	GA	5YPH4	25
3 3/4"	GA	5YPH5	25
4"	GA	5YPH6	25
4 1/4"	GA	5YPH7	25
4 1/2"	GA	5YPH8	10
5"	GA	5YPJ0	10
5/8" Shoulder, 1/2-13 Thread			
1 1/4"	GA	5YPJ1	25
1 1/2"	GA	5YPJ2	25
1 3/4"	GA	5YPJ3	25
2"	GA	5YPJ4	25
2 1/4"	GA	5YPJ5	25
2 1/2"	GA	5YPJ6	25
2 3/4"	GA	5YPJ7	25
3 1/4"	GA	5YPJ9	25
3 1/2"	GA	5YPK0	25
3 3/4"	GA	5YPK1	25
4"	GA	5YPK2	10
4 1/2"	GA	5YPK4	10
5"	GA	5YPK6	10
5 1/2"	GA	5YPK7	10
3/4" Shoulder, 5/8-11 Thread			
1 1/2"	GA	5YPK9	10
1 3/4"	GA	5YPL0	10
2"	GA	5YPL1	10
2 1/4"	GA	5YPL2	10
2 1/2"	GA	5YPL3	10
2 3/4"	GA	5YPL4	10
3"	GA	5YPL5	10
3 1/4"	GA	5YPL6	10
3 1/2"	GA	5YPL7	10
3 3/4"	GA	5YPL8	10
4"	GA	5YPL9	10
4 1/4"	GA	5YPN0	10
4 1/2"	GA	5YPN1	10
4 3/4"	GA	5YPN2	10
5"	GA	5YPN3	10
5 1/2"	GA	5YPN4	10

Find more information, including additional dimensions on page 2123.



Hex Socket Drive



Phillips Drive



Slotted Drive

18-8 Stainless Steel Precision Shoulder Screws

- Tensile strength: 90,000 psi inch, 80,000 psi metric
- Thread class: 2A
- Shoulder length tolerance: +0.002" inch, +0.050mm metric
- Shoulder dia. tolerance: +0.000/-0.001"

Closer tolerances permit use in critical applications that require greater precision. Undercut beneath the head lets screws mount flush to surface.

Note: 416 SS precision shoulder screws, additional dimensional information, and additional sizes are available on Grainger.com®. Search for "shoulder screws."

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
⅛" Shoulder, 4-40 Thread			
⅛"	Hex Socket	6JU88	10
	Phillips	6JY80	10
3⁄16"	Slotted	6JU24	10
	Hex Socket	6JU89	10
	Phillips	6JY82	10
¼"	Slotted	6JU25	10
	Hex Socket	6JU90	10
3⁄8"	Slotted	6JU27	10
	Hex Socket	6JU92	10
	Phillips	6JY87	10
7⁄16"	Hex Socket	6JU93	10
½"	Slotted	6JU29	10
	Hex Socket	6JU94	10
5⁄32" Shoulder, 6-32 Thread			
⅛"	Hex Socket	6JU95	10
3⁄16"	Hex Socket	6JU96	10
¼"	Slotted	6JU32	10
	Hex Socket	6JU97	10
	Phillips	6JY92	5
5⁄16"	Slotted	6JU33	10
	Hex Socket	6JU98	10
	Phillips	6JY93	5
3⁄8"	Hex Socket	6JU99	10
7⁄16"	Phillips	6JY95	5
½"	Slotted	6JU36	10
	Hex Socket	6JY11	10
3⁄16" Shoulder, 8-32 Thread			
⅛"	Slotted	6JU37	10
	Hex Socket	6JY12	10
3⁄16"	Slotted	6JU38	10
	Hex Socket	6JY13	10
¼"	Slotted	6JU39	10
	Hex Socket	6JY14	10
	Phillips	6JY99	10
5⁄16"	Hex Socket	6JY15	10
3⁄8"	Hex Socket	6JY16	10
	Phillips	6KA11	5
½"	Slotted	6JU42	10
	Hex Socket	6JY17	10
5⁄8"	Hex Socket	6JY18	10
¾"	Hex Socket	6JY19	5
1"	Hex Socket	6JY20	5
1 ¼"	Slotted	6JU46	5
	Hex Socket	6JY21	5
1 ½"	Slotted	6JU47	5
	Hex Socket	6JY22	5
¼" Shoulder, 10-24 Thread			
⅛"	Hex Socket	6JY23	5
3⁄16"	Hex Socket	6JY24	5
¼"	Slotted	6JU50	10
	Hex Socket	6JY25	5
5⁄16"	Slotted	6JU51	10
	Hex Socket	6JY26	5
3⁄8"	Hex Socket	6JY27	5
½"	Hex Socket	6JY28	5
5⁄8"	Hex Socket	6JY29	5
¾"	Hex Socket	6JY30	5
1"	Hex Socket	6JY31	5
1 ¼"	Slotted	6JU57	5
	Hex Socket	6JY32	5
1 ½"	Hex Socket	6JY33	5
¼" Shoulder, 10-32 Thread			
⅛"	Slotted	6JU59	10
	Hex Socket	6JY34	10
	Phillips	6KA18	5
3⁄16"	Slotted	6JU60	10
	Hex Socket	6JY35	10
	Phillips	6KA19	5
¼"	Hex Socket	6JY36	10
5⁄16"	Hex Socket	6JY37	10
	Phillips	6KA21	5
3⁄8"	Hex Socket	6JY38	10
½"	Slotted	6JU64	10
	Phillips	6KA23	5
5⁄8"	Hex Socket	6JY40	5
¾"	Slotted	6JU66	5
	Hex Socket	6JY41	5
1"	Hex Socket	6JY42	5
	Phillips	6KA26	5
1 ¼"	Hex Socket	6JY43	5
	Phillips	6KA27	5
1 ½"	Hex Socket	6JY45	5

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
5⁄16" Shoulder, ¼-20 Thread			
¼"	Slotted	6JU70	5
	Hex Socket	6JY47	5
	Phillips	6KA29	5
5⁄16"	Hex Socket	6JY49	5
	Phillips	6KA30	5
3⁄8"	Slotted	6JU72	5
	Hex Socket	6JY51	5
½"	Slotted	6JU73	5
	Hex Socket	6JY53	5
5⁄8"	Hex Socket	6JY55	5
¾"	Slotted	6JU75	5
	Phillips	6KA34	5
3⁄8" Shoulder, ¼-20 Thread			
3⁄8"	Hex Socket	6JY60	5
½"	Slotted	6JU78	5
	Hex Socket	6JY61	5
5⁄8"	Hex Socket	6JY62	5
3⁄8" Shoulder, 5⁄16-18 Thread			
3⁄8"	Slotted	6JU81	5
	Hex Socket	6JY66	5
5⁄8"	Hex Socket	6JY70	5
	Phillips	6KA42	5
½" Shoulder, 3⁄8-16 Thread			
5⁄8"	Hex Socket	6JY74	5
¾"	Phillips	6KA45	5
3mm Shoulder, M2x0.40mm Thread			
4mm	Hex Socket	25L552	1
10mm	Hex Socket	25L556	1
4mm Shoulder, M3x0.50mm Thread			
4mm	Hex Socket	25L557	1
	Slotted	6KB50	10
5mm	Hex Socket	25L558	1
	Hex Socket	6KB96	5
6mm	Slotted	6KB52	10
	Hex Socket	6KB97	5
8mm	Hex Socket	25L560	1
	Hex Socket	6KB98	5
10mm	Hex Socket	6KB99	5
5mm Shoulder, M4x0.70mm Thread			
4mm	Slotted	6KB55	10
	Hex Socket	6KE10	5
5mm	Slotted	6KB56	10
	Hex Socket	6KE11	5
6mm	Hex Socket	6KE12	5
8mm	Hex Socket	6KE13	5
10mm	Hex Socket	25L562	1
	Hex Socket	6KE14	5
12mm	Hex Socket	25L563	1
	Slotted	6KB60	10
	Hex Socket	6KE15	5
16mm	Hex Socket	25L564	1
	Hex Socket	6KE17	5
20mm	Hex Socket	25L565	1
	Hex Socket	6KE18	5
25mm	Slotted	6KB64	5
	Hex Socket	6KE19	5
30mm	Hex Socket	25L567	1
	Hex Socket	6KE20	5
6mm Shoulder, M5x0.80mm Thread			
4mm	Hex Socket	6KE21	5
5mm	Hex Socket	6KE22	5
6mm	Slotted	6KB68	5
	Hex Socket	6KE23	5
8mm	Hex Socket	6KE24	5
10mm	Hex Socket	25L568	1
	Hex Socket	31KG45	5
	Hex Socket	6KE25	5
12mm	Hex Socket	25L569	1
14mm	Hex Socket	6KE27	5
16mm	Hex Socket	25L570	1
	Hex Socket	31KG47	5
	Hex Socket	6KE28	5
20mm	Hex Socket	31KG48	5
25mm	Hex Socket	31KG49	5
	Hex Socket	6KE30	5
30mm	Hex Socket	31KG50	5
	Hex Socket	6KE31	5
40mm	Hex Socket	25L574	1
50mm	Hex Socket	25L575	1
8mm Shoulder, M6x1mm Thread			
6mm	Hex Socket	6KE32	5
8mm	Hex Socket	6KE33	5
10mm	Hex Socket	6KE34	5

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
12mm	Hex Socket	25L576	1
	Hex Socket	31KG52	5
16mm	Hex Socket	25L577	1
	Slotted	6KB81	5
	Hex Socket	6KE36	5
20mm	Hex Socket	25L578	1
	Hex Socket	31KG54	5
	Hex Socket	6KE37	5
25mm	Hex Socket	25L579	1
	Hex Socket	31KG55	5
30mm	Hex Socket	25L580	1
	Hex Socket	31KG56	5
40mm	Hex Socket	25L581	1
	Hex Socket	31KG57	5
50mm	Hex Socket	25L582	1
	Hex Socket	31KG58	5
10mm Shoulder, M6x1mm Thread			
8mm	Hex Socket	6KE38	5
10mm	Hex Socket	6KE39	5
12mm	Slotted	6KB85	5
	Hex Socket	6KE40	5
16mm	Hex Socket	6KE41	5
10mm Shoulder, M8x1.25mm Thread			
8mm	Hex Socket	6KE42	5
10mm	Hex Socket	6KE43	5
12mm	Hex Socket	6KE44	5
16mm	Hex Socket	25L583	1
	Hex Socket	31KG59	5
20mm	Hex Socket	25L584	1
	Hex Socket	31KG60	5
25mm	Hex Socket	25L585	1
	Hex Socket	31KG61	5
30mm	Hex Socket	25L586	1
	Hex Socket	31KG62	5
40mm	Hex Socket	25L587	1
	Hex Socket	31KG63	5
50mm	Hex Socket	25L588	1
	Hex Socket	31KG64	5
70mm	Hex Socket	25L590	1
	Hex Socket	31KG66	2
12mm Shoulder, M10x1.50mm Thread			
12mm	Hex Socket	6KE47	5
16mm	Hex Socket	25L591	1
	Hex Socket	31KG67	5
	Hex Socket	6KE49	5
20mm	Hex Socket	25L592	1
	Hex Socket	31KG68	5
	Hex Socket	6KE51	5
25mm	Hex Socket	25L593	1
	Hex Socket	31KG69	5
30mm	Hex Socket	25L594	1
40mm	Hex Socket	25L595	1
	Hex Socket	31KG71	2
50mm	Hex Socket	25L596	1
60mm	Hex Socket	25L597	1
70mm	Hex Socket	31KG74	1
16mm Shoulder, M12x1.75mm Thread			
30mm	Hex Socket	25L599	1
	Hex Socket	31KG75	1
40mm	Hex Socket	25L601	1
	Hex Socket	31KG76	1
50mm	Hex Socket	25L602	1
	Hex Socket	31KG77	1
60mm	Hex Socket	25L603	1
80mm	Hex Socket	31KG80	1
20mm Shoulder, M16x2mm Thread			
40mm	Hex Socket	31KG81	2
50mm	Hex Socket	25L608	1
	Hex Socket	31KG82	2
60mm	Hex Socket	25L609	1
70mm	Hex Socket	25L610	1
80mm	Hex Socket	25L611	1

FIND MORE ONLINE
Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!

Find more information, including additional dimensions on page 2123.

18-8 Stainless Steel Shoulder Screws



Hex Socket Drive

- Shoulder length tolerance: ±0.005"
- Knurled head
- Shoulder dia. tolerance: -0.002" to -0.004"

Hex socket drive.

Shoulder Length	Item No.	Pkg. Qty.
⅛" Shoulder, 4-40 Thread		
⅛"	25L199	1
5/32"	25L201	1
3/16"	25L202	1
7/32"	25L203	1
¼"	25L204	1
9/32"	25L205	1
5/16"	25L206	1
11/32"	25L207	1
⅜"	25L208	1
13/32"	25L209	1
7/16"	25L210	1
15/32"	25L211	1
½"	25L212	1
⅝"	25L213	1
¾"	25L214	1
1"	25L215	1
1¼"	25L216	1
1½"	25L217	1
5/32" Shoulder, 6-32 Thread		
⅛"	25L218	1
5/32"	25L219	1
3/16"	25L220	1
7/32"	25L221	1
¼"	25L222	1
9/32"	25L223	1
5/16"	25L224	1
11/32"	25L225	1
⅜"	25L226	1
13/32"	25L227	1
7/16"	25L228	1
15/32"	25L229	1
½"	25L230	1
⅝"	25L231	1
¾"	25L232	1
1"	25L233	1
3/16" Shoulder, 8-32 Thread		
⅛"	25L234	1
5/32"	25L235	1
3/16"	25L236	1
7/32"	25L237	1
¼"	25L238	1
9/32"	25L239	1
5/16"	25L240	1
11/32"	25L241	1
⅜"	25L242	1
13/32"	25L243	1
7/16"	25L244	1
15/32"	25L245	1
½"	25L246	1
⅝"	25L247	1
¾"	25L248	1
⅞"	25L249	1
1"	25L250	1
1⅛"	25L251	1
1¼"	25L252	1
1⅜"	25L253	1
1½"	25L254	1
1⅝"	25L255	1
1¾"	25L256	1
2"	25L257	1
7/32" Shoulder, 8-32 Thread		
⅛"	25L258	1
5/32"	25L259	1
3/16"	25L260	1
7/32"	25L261	1
¼"	25L262	1
9/32"	25L263	1
5/16"	25L264	1
11/32"	25L265	1
⅜"	25L266	1
13/32"	25L267	1
7/16"	25L268	1
15/32"	25L269	1
½"	25L270	1
⅝"	25L271	1
¾"	25L272	1
⅞"	25L273	1
1"	25L274	1
1⅛"	25L275	1
1¼"	25L276	1
1⅜"	25L277	1
1½"	25L278	1
1⅝"	25L279	1
1¾"	25L280	1
2"	25L281	1
¼" Shoulder, 10-24 Thread		
⅛"	2DME8	4
5/32"	25L282	1
3/16"	2DME9	4
7/32"	25L283	1
¼"	2DMF1	4
	31KH06	5
9/32"	25L284	1
5/16"	2DME7	4
	31KH07	5
11/32"	25L285	1
⅜"	2DMF2	4
	31KH08	5
13/32"	25L286	1
7/16"	25L287	1
15/32"	25L288	1
½"	2DMF3	4
	31KH09	5
⅝"	2DMF4	4
	31KH10	5
¾"	2DMF5	4
	31KH11	5
1"	2DMF6	4
	31KH12	5
1⅛"	25L289	1
1¼"	2DMF7	4
	31KH13	5
1⅜"	25L290	1
1½"	2DMF8	4
1⅝"	25L291	1
1¾"	2DMF9	2
2"	2DMG1	2
2¼"	2DMG2	2
2½"	2DMG3	2
2¾"	2DMG4	2
3"	2DMG5	2
3½"	25L292	1
4"	25L293	1
4½"	25L294	1
5"	25L295	1
5/16" Shoulder, ¼-20 Thread		
¼"	2DMG6	4
5/16"	2DMG7	4
⅜"	2DMG8	4
½"	2DMG9	4
⅝"	2DMH1	4
¾"	2DMH2	4
⅞"	25L296	1
1"	2DMH3	4
	31KH14	5
1¼"	2DMH4	4
	31KH15	5
1½"	2DMH5	2
	31KH16	5
1¾"	2DMH6	2
2"	2DMH7	2
2¼"	2DMH8	2
2½"	2DMH9	2
2¾"	2DMJ1	2
3"	2DMJ2	2
3½"	2DMJ3	2
4"	2DMJ4	2
4½"	25L297	1
5"	25L298	1
5½"	25L299	1
6"	25L301	1
⅜" Shoulder, 5/16-18 Thread		
¼"	2DMJ5	4
	31KH17	5
⅜"	2DMJ6	4
½"	2DMJ7	4
⅝"	2DMJ8	4
¾"	2DMJ9	4
	31KH18	5
1"	2DMK1	2
	31KH19	2
1¼"	2DMK2	2
	31KH20	2
1½"	2DMK3	2
	31KH21	2
1¾"	2DMK4	2
2"	2DMK5	2
2¼"	2DMK6	2
2½"	2DMK7	2
2¾"	2DMK8	2
3"	2DMK9	2
3¼"	2DML1	2
3½"	2DML2	2
3¾"	2DML3	2
4"	2DML4	2
4½"	2DML5	2
5"	2DML6	2
5½"	25L302	1
6"	2DML7	2
6½"	25L303	1
7"	25L304	1
7½"	25L305	1
8"	25L306	1
½" Shoulder, ⅜-16 Thread		
⅜"	2DML8	4
	31KH22	5
½"	2DML9	4
⅝"	2DMN1	4
¾"	2DMN2	4
1"	2DMN3	2
1¼"	2DMN4	2
	31KH23	5
1½"	2DMN5	2
	31KH24	2
1¾"	2DMN6	2
2"	2DMN7	2
2¼"	2DMN8	2
2½"	2DMN9	2
2¾"	2DMP1	2
3"	2DMP2	2
3¼"	2DMP3	2
3½"	2DMP4	2
3¾"	2DMP5	2
4"	2DMP6	2
4¼"	2DMP7	2
4½"	2DMP8	2
4¾"	2DMP9	2
5"	2DMR1	2
5½"	2DMR2	2
6"	2DMR3	2
6½"	25L307	1
7"	25L308	1
7½"	25L309	1
8"	25L310	1
⅝" Shoulder, ½-13 Thread		
½"	2DMR4	2
⅝"	2DMR5	2
¾"	2DMR6	2
1"	2DMR7	2
1¼"	2DMR8	2
1½"	2DMR9	2
1¾"	2DMT1	2
2"	2DMT2	2
2¼"	2DMT3	2
2½"	2DMT4	2
2¾"	2DMT5	2
3"	2DMT6	2
3¼"	2DMT7	2
3½"	2DMT8	2
3¾"	2DMT9	2
4"	2DMU1	2
4¼"	25L311	1
4½"	2DMU2	2
4¾"	2DMU3	2
5"	2DMU4	2
5½"	2DMU5	2
6"	2DMU6	2
6½"	25L312	1
7"	25L313	1
7½"	25L314	1
8"	25L315	1
¾" Shoulder, ⅝-11 Thread		
½"	2DMU7	2
⅝"	2DMU8	2
¾"	2DMU9	2
1"	2DMV1	2
1¼"	2DMV2	2
1½"	2DMV3	2
1¾"	2DMV4	2
2"	2DMV5	2
2¼"	2DMV6	2
2½"	2DMV7	2
2¾"	2DMV8	2
3"	2DMV9	2
3¼"	2DMW1	2
3½"	2DMW2	2
3¾"	2DMW3	2
4"	2DMW4	2
4¼"	2DMW5	2
4½"	2DMW6	2
4¾"	2DMW7	2
5"	2DMW8	2
5½"	2DMW9	2
6"	2DMX1	2
6½"	25L316	1
7"	25L317	1
7½"	25L318	1
8"	25L319	1
1" Shoulder, ¾-10 Thread		
1"	2DMX2	2
1¼"	25L320	1
1½"	2DMX3	2
1¾"	2DMX4	2
2"	2DMX5	2
2¼"	25L321	1
2½"	2DMX6	2
2¾"	25L322	1
3"	2DMX7	2
3½"	2DMX8	2
4"	2DMX9	2
4½"	25L323	1
5"	2DMY1	2
5½"	25L324	1
6"	2DMY2	2
6½"	25L325	1
7"	25L326	1
7½"	25L327	1
8"	25L328	1
1¼" Shoulder, ⅞-9 Thread		
1"	25L329	1
1¼"	25L330	1
1½"	25L331	1
1¾"	25L332	1
2"	25L333	1
2½"	25L334	1
3"	25L335	1
3½"	25L336	1
4"	25L337	1
1½" Shoulder, 1⅛-7 Thread		
1"	25L338	1
1¼"	25L339	1
1½"	25L340	1
1¾"	25L341	1
2"	25L342	1
2½"	25L343	1
3"	25L344	1

316 Stainless Steel Shoulder Screws



Hex socket drive.

Note: Additional dimensional information and additional sizes are available on Grainger.com®; search for "shoulder screws."

Standard
- Tensile strength: 70,000 psi

Metric
- Tensile strength: 90,000 psi

Shoulder Length	Item No.	Pkg. Qty.
⅛" Shoulder Dia., 4-40 Thread Size		
⅛"	25L345	1
3/16"	2DMY3	4
11/32"	25L349	1
15/32"	25L351	1
½"	2DMY8	4
¾"	25L353	1
1"	25L354	1
1½"	25L356	1
5/32" Shoulder Dia., 6-32 Thread Size		
⅛"	2DMY9	4
5/32"	25L357	1
3/16"	2DMZ1	4
¼"	2DMZ2	4
5/16"	2DMZ3	4
13/32"	25L361	1
15/32"	25L362	1
½"	2DMZ6	4
1"	25L365	1
3/16" Shoulder Dia., 8-32 Thread Size		
5/32"	25L366	1
3/16"	2DMZ8	4
¼"	2DMZ9	4
9/32"	25L368	1
5/16"	2DNA1	4
⅜"	2DNA2	4
13/32"	25L370	1
½"	2DNA3	4
5/8"	2DNA4	2
¾"	2DNA5	2
1"	2DNA6	2
1¼"	2DNA7	2
1⅜"	25L375	1
1½"	2DNA8	2
1⅝"	25L376	1
2"	25L378	1
7/32" Shoulder Dia., 8-32 Thread Size		
7/32"	25L382	1
¼"	25L383	1
11/32"	25L386	1
⅜"	25L387	1
13/32"	25L388	1
15/32"	25L390	1
½"	25L391	1
2"	25L403	1
¼" Shoulder Dia., 10-24 Thread Size		
⅛"	25L404	1
¼"	2DNA9	4
9/32"	25L408	1
5/16"	25L409	1
⅜"	2DNC1	4
7/16"	25L412	1
15/32"	25L413	1
½"	2DNC2	4
5/8"	2DNC3	4
¾"	2DNC4	4
1"	2DNC5	2
1⅛"	25L414	1
1¼"	2DNC6	2
1⅜"	25L415	1
1½"	2DNC7	2
1⅝"	25L416	1
1¾"	2DNC8	2
2"	2DNC9	2
2¼"	25L417	1
3"	25L420	1
4½"	25L423	1
5/16" Shoulder Dia., ¼-20 Thread Size		
¼"	2DND1	4
5/16"	25L425	1
⅜"	2DND2	4
½"	2DND3	4
⅝"	2DND4	4
¾"	2DND5	4
1"	2DND6	4
1¼"	2DND7	2
1½"	2DND8	2
	25L427	1
2"	2DND9	2
2¼"	25L428	1
2½"	25L429	1
3"	25L431	1
3½"	25L432	1
4"	25L433	1
⅜" Shoulder Dia., 5/16-18 Thread Size		
¼"	2DNE1	2
⅜"	2DNE2	2
½"	2DNE3	2
⅝"	2DNE4	2
¾"	2DNE5	2
1"	2DNE6	2
1¼"	2DNE7	2
1½"	2DNE8	2
1¾"	2DNE9	2
2"	2DNF1	2
2½"	25L439	1
2¾"	25L440	1
3"	25L441	1
3¾"	25L444	1
4"	25L445	1
6½"	25L450	1
½" Shoulder Dia., ⅜-16 Thread Size		
⅜"	2DNF2	2
½"	2DNF3	2
⅝"	2DNF4	2
¾"	2DNF5	2
1"	2DNF6	2
1¼"	2DNF7	2
1½"	2DNF8	2
1¾"	2DNF9	2
2"	2DNG1	2
2¼"	2DNG2	2
2½"	2DNG3	2
3"	2DNG4	2
3¼"	25L455	1
3½"	25L456	1
⅝" Shoulder Dia., ½-13 Thread Size		
½"	2DNG5	2
⅝"	25L469	1
¾"	2DNG6	2
1"	2DNG7	2
1¼"	2DNG8	2
1½"	2DNG9	2
1¾"	25L470	1
2"	25L471	1
2¼"	25L472	1
2½"	25L473	1
2¾"	25L474	1
3"	25L475	1
4"	25L479	1
4¼"	25L480	1
¾" Shoulder Dia., ⅝-11 Thread Size		
⅝"	25L491	1
1½"	25L495	1
2"	25L497	1
2¼"	25L498	1
2½"	25L499	1
1" Shoulder Dia., ¾-10 Thread Size		
1¼"	25L518	1
2¼"	25L522	1
2½"	25L523	1
1¼" Shoulder Dia., ⅞-9 Thread Size		
2½"	25L541	1
3mm Shoulder Dia., M2x0.40mm Thread Size		
4mm	25L615	1
6mm	25L617	1
10mm	25L619	1
4mm Shoulder Dia., M3x0.50mm Thread Size		
5mm	25L621	1
6mm	25L622	1
8mm	25L623	1
10mm	25L624	1
5mm Shoulder Dia., M4x0.70mm Thread Size		
10mm	25L625	1
12mm	25L626	1
20mm	25L628	1
30mm	25L630	1
6mm Shoulder Dia., M5x0.80mm Thread Size		
10mm	25L631	1
12mm	25L632	1
16mm	25L633	1
20mm	25L634	1
25mm	25L635	1
30mm	25L636	1
40mm	25L637	1
8mm Shoulder Dia., M6x1mm Thread Size		
12mm	25L639	1
16mm	25L640	1
20mm	25L641	1
25mm	25L642	1
30mm	25L643	1
50mm	25L645	1
10mm Shoulder Dia., M8x1.25mm Thread Size		
16mm	25L646	1
20mm	25L647	1
25mm	25L648	1
50mm	25L651	1
60mm	25L652	1
70mm	25L653	1
12mm Shoulder Dia., M10x1.50mm Thread Size		
16mm	25L654	1
20mm	25L655	1
30mm	25L657	1
40mm	25L658	1
50mm	25L659	1
60mm	25L660	1
70mm	25L661	1
16mm Shoulder Dia., M12x1.75mm Thread Size		
30mm	25L662	1
40mm	25L663	1
50mm	25L664	1
60mm	25L665	1
70mm	25L666	1
20mm Shoulder Dia., M16x2mm Thread Size		
40mm	25L669	1
50mm	25L670	1
60mm	25L671	1
80mm	25L673	1
90mm	25L674	1

Set Screw Information

Set screws can be used to prevent relational motion of permanently located parts. They are typically used in electronics and for applications where space is a key concern.

Set screws feature these key characteristics:

- A hexagonal socket recessed in one end, or an external square or slotted head
- A point designed to bear against a mating part at the opposite end
- Threads extending the entire length of the shaft

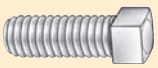
HEAD TYPES



Hex Socket
Recessed drive makes screws ideal for flush mounting.



Slotted
Single slot for driving with a standard screwdriver.



Square™
Enables external wrenching of the screw. Use in environments in which grease or dirt might clog a recessed drive.

POINT TYPES



Cone
Pointed end generates highest torsional holding power in applications where parts must be permanently located. See page 2128.



Cup
Cup-shaped point features a conical depression for excellent holding power with slight penetration. See page 2126.



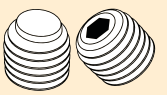
Flat
Minimizes shaft damage in applications where parts are frequently reset or when fastening into thin walls. See page 2130.



Knurled Cup
Provides more resistance to vibration than a plain cup point. Deep socket broach assures a good hex key fit. See pages 2128.



Oval
Rounded point reduces indentation and prevents deformation of parts in applications requiring frequent adjustment.



Half-Dog
Used for permanent setting of parts and can replace dowel pins when hole is threaded. Works well against hardened members or hollow tubing.



Socket Set Screw Assortments

GRAINGER APPROVED | ITW Bee Leitzke

No. of Pieces	No. of Sizes	Type	Includes	Material	Item No.	Item No.
GA						
60	6	Square Head, Cup Point	(20) Each: ¼-20x3/4", (10) Each: 5/16-18x3/4", 3/8-16x3/4", (8) Each: 5/16-18x1", 3/8-16x1-1/4", (4) Each: ½-13x1", and Plastic Hanging Pak	Steel	**4F415**	**4F415**
Itw Bee Leitzke						
195	6	Socket Drive, Cup Point	(75) Each: 3/16-24x1/4", (40) Each: ¼-20x1/4", (25) Each: ¼-20x3/8", 5/16-18x3/8", (20) Each: 3/8-16x3/8", (10) Each: 3/8-16x1/2", Plastic Hanging Pak	Black Alloy Steel	**2NRZ5**	**2NRZ5**
200	12	Socket Drive, Cup Point	(30) Each: ¼-20x1/4", 5/16-18x3/8", (20) Each: ¼-20x3/8", ¼-28x1/4", 5/16-18x1/2", 5/16-24x3/8", (10) Each: 5-40x3/16", 8-32x3/16", 3/16-24x1/4", 3/8-16x3/8", x1/2", 3/8-24x3/8", Plastic Hanging Pak	Steel	**5A206**	**5A206**



Cup Point Socket Set Screws

- Hex drive

Note: Additional sizes are available; on Grainger.com® search for "set screws."

Overall Length	Item No.	Item No.	Pkg. Qty.
18-8 Stainless Steel			
0-80 Thread, 0.028" Drive			
1/16"	**5MNV5**	**5MNV5**	50
3/32"	**5MNV6**	**5MNV6**	50
1/8"	**5MNV7**	**5MNV7**	50
3/16"	**5MNV8**	**5MNV8**	50
¼"	**5MNV9**	**5MNV9**	50
1-72 Thread, 0.028" Drive			
1/16"	**5MNW0**	**5MNW0**	50
1/8"	**5MNW1**	**5MNW1**	50
2-56 Thread, 0.035" Drive			
1/16"	**5MNW2**	**5MNW2**	100
3/32"	**5MNW3**	**5MNW3**	100
1/8"	**5MNW4**	**5MNW4**	100
3/16"	**5MNW5**	**5MNW5**	100
¼"	**5MNW7**	**5MNW7**	100
3-48 Thread, 0.050" Drive			
3/32"	**5MNW8**	**5MNW8**	100
1/8"	**5MNW9**	**5MNW9**	100
3/16"	**5MNW6**	**5MNW6**	100
4-40 Thread, 0.050" Drive			
1/8"	**5MNX0**	**5MNX0**	100
3/16"	**5MNX1**	**5MNX1**	100
¼"	**5MNX2**	**5MNX2**	100
6-32 Thread, 1/16" Drive			
1/8"	**6ZB16**	**6ZB16**	100
3/16"	**6ZB18**	**6ZB18**	100
¼"	**6ZB20**	**6ZB20**	100
5/16"	**5MMR4**	**5MMR4**	100
3/8"	**5MMR5**	**5MMR5**	100

Overall Length	Item No.	Item No.	Pkg. Qty.
8-32 Thread, 5/64" Drive			
1/8"	**6ZB26**	**6ZB26**	100
3/16"	**6ZB28**	**6ZB28**	100
¼"	**6ZB30**	**6ZB30**	100
5/16"	**5MMR6**	**5MMR6**	100
3/8"	**5MMR7**	**5MMR7**	100
7/16"	**5MMR8**	**5MMR8**	100
½"	**5MMR9**	**5MMR9**	100
10-24 Thread, 3/32" Drive			
3/16"	**5MMT0**	**5MMT0**	100
¼"	**5MMT1**	**5MMT1**	100
5/16"	**5MMT2**	**5MMT2**	100
3/8"	**5MMT3**	**5MMT3**	100
½"	**5MMT4**	**5MMT4**	100
5/8"	**5MMT5**	**5MMT5**	100
¾"	**5MMT6**	**5MMT6**	100
10-32 Thread, 3/32" Drive			
3/16"	**6ZB53**	**6ZB53**	100
¼"	**5MMT7**	**5MMT7**	100
5/16"	**5MMT8**	**5MMT8**	100
3/8"	**5MMT9**	**5MMT9**	100
½"	**5MMU0**	**5MMU0**	100
5/8"	**5MMU1**	**5MMU1**	100
¾"	**5MMU2**	**5MMU2**	100
¼-20 Thread, 1/8" Drive			
3/16"	**6ZB67**	**6ZB67**	100
¼"	**5MMU3**	**5MMU3**	100
5/16"	**5MMU4**	**5MMU4**	100
3/8"	**5MMU5**	**5MMU5**	100
½"	**5MMU6**	**5MMU6**	100
5/8"	**5MMU7**	**5MMU7**	100
¾"	**5MMU8**	**5MMU8**	100
1"	**5MMU9**	**5MMU9**	50

Overall Length	Item No.	Item No.	Pkg. Qty.
5/16-18 Thread, 5/32" Drive			
¼"	**5MMV0**	**5MMV0**	100
5/16"	**5MMV1**	**5MMV1**	100
3/8"	**5MMV2**	**5MMV2**	100
½"	**5MMV3**	**5MMV3**	100
5/8"	**5MMV4**	**5MMV4**	100
¾"	**5MMV5**	**5MMV5**	50
1"	**5MMV6**	**5MMV6**	50
3/8-16 Thread, 3/16" Drive			
5/16"	**5MMV7**	**5MMV7**	50
3/8"	**5MMV8**	**5MMV8**	50
½"	**5MMV9**	**5MMV9**	50
5/8"	**5MMW0**	**5MMW0**	50
¾"	**5MMW1**	**5MMW1**	50
1"	**5MMW2**	**5MMW2**	50
½-13 Thread, ¼" Drive			
½"	**5MMW3**	**5MMW3**	50
5/8"	**5MMW4**	**5MMW4**	25
¾"	**5MMW5**	**5MMW5**	25
1"	**5MMW6**	**5MMW6**	25
300 Stainless Steel			
8-32 Thread, 5/64" Drive			
3/16"	**5GUG4**	**5GUG4**	5
¼-28 Thread, 1/8" Drive			
3/16"	**5GUH3**	**5GUH3**	5
¼"	**5GUH4**	**5GUH4**	5
5/16"	**5GUH5**	**5GUH5**	5
3/8"	**5GUH6**	**5GUH6**	5

Overall Length	Item No.	Item No.	Pkg. Qty.
18-8 Stainless Steel			
¼-20 Thread			
½"	**2WA37**	**2WA37**	10
5/8"	**2WA38**	**2WA38**	10
¾"	**2WA39**	**2WA39**	10
1"	**2WA40**	**2WA40**	10
1¼"	**2WA41**	**2WA41**	10
5/16-18 Thread			
¾"	**2WA42**	**2WA42**	10
1"	**2WA43**	**2WA43**	10
3/8-16 Thread			
¾"	**2WA44**	**2WA44**	10
1"	**2WA45**	**2WA45**	10
1¼"	**2WA46**	**2WA46**	5
1½"	**2WA48**	**2WA48**	5
½-13 Thread			
¾"	**2WA49**	**2WA49**	5
1"	**2WA50**	**2WA50**	5
1¼"	**2WA51**	**2WA51**	5
1½"	**2WA52**	**2WA52**	5
2"	**2WA53**	**2WA53**	5
Steel			
¼-20 Thread			
3/8"	**25J628**	**25J628**	100
½"	**5NZY1**	**5NZY1**	100
5/8"	**25J629**	**25J629**	100
¾"	**5NZY2**	**5NZY2**	100
7/8"	**25J630**	**25J630**	100
1"	**5NZY3**	**5NZY3**	100
1¼"	**5NZY4**	**5NZY4**	100
1½"	**5NZY5**	**5NZY5**	100
1¾"	**25J631**	**25J631**	100
2"	**25J632**	**25J632**	100
2½"	**25J633**	**25J633**	50
3"	**25J634**	**25J634**	50
5/16-18 Thread			
½"	**5NZY6**	**5NZY6**	100
5/8"	**25J635**	**25J635**	100
¾"	**5NZY7**	**5NZY7**	100
1"	**5NZY8**	**5NZY8**	100
1¼"	**5NZY9**	**5NZY9**	100
1½"	**5NZZ0**	**5NZZ0**	100
1¾"	**25J636**	**25J636**	100
2"	**25J637**	**25J637**	100
2½"	**25J638**	**25J638**	50
3"	**25J639**	**25J639**	50



Cup Point Square Head Set Screws

Overall Length	Item No.	Item No.	Pkg. Qty.
3/8-16 Thread			
½"	**5NZZ1**	**5NZZ1**	100
5/8"	**25J640**	**25J640**	100
¾"	**5NZZ2**	**5NZZ2**	100
1"	**5NZZ3**	**5NZZ3**	100
1¼"	**5NZZ4**	**5NZZ4**	100
1½"	**31KC88**	**31KC88**	50
1¾"	**31KC89**	**31KC89**	50
2"	**31KC90**	**31KC90**	25
2½"	**31KJ42**	**31KJ42**	25
3"	**31KJ43**	**31KJ43**	10
3½"	**31KJ44**	**31KJ44**	10
4"	**31KJ45**	**31KJ45**	10
7/16-14 Thread			
¾"	**25J642**	**25J642**	50
1"	**25J643**	**25J643**	50
1¼"	**31KJ46**	**31KJ46**	25
1½"	**31KJ47**	**31KJ47**	25
2"	**31KJ48**	**31KJ48**	25
½-13 Thread			
¾"	**31KC91**	**31KC91**	25
7/8"	**31KJ49**	**31KJ49**	25
1"	**31KC92**	**31KC92**	25
1¼"	**31KC93**	**31KC93**	25
1½"	**31KC94**	**31KC94**	25
1¾"	**31KC95**	**31KC95**	25
2"	**31KC96**	**31KC96**	10
2½"	**31KJ50**	**31KJ50**	10
3"	**31KJ51**	**31KJ51**	10
3½"	**31KJ52**	**31KJ52**	10
4"	**31KJ53**	**31KJ53**	10
5"	**31KJ54**	**31KJ54**	5
6"	**31KJ55**	**31KJ55**	5

Overall Length	Item No.	Item No.	Pkg. Qty.
5/8-11 Thread			
1"	**31KJ56**	**31KJ56**	10
1¼"	**31KJ57**	**31KJ57**	10
1½"	**31KJ58**	**31KJ58**	10
1¾"	**31KJ59**	**31KJ59**	10
2"	**31KJ60**	**31KJ60**	10
2½"	**31KJ61**	**31KJ61**	10
3"	**31KJ62**	**31KJ62**	5
3½"	**31KJ63**	**31KJ63**	5
4"	**31KC97**	**31KC97**	5
5"	**31KC98**	**31KC98**	5
6"	**31KJ64**	**31KJ64**	5
¾-10 Thread			
1"	**31KJ65**	**31KJ65**	5
1¼"	**31KJ66**	**31KJ66**	5
1½"	**31KJ67**	**31KJ67**	5
2"	**31KC99**	**31KC99**	5
2½"	**31KD01**	**31KD01**	5
3"	**31KD02**	**31KD02**	5
3½"	**31KD03**	**31KD03**	5
4"	**31KD04**	**31KD04**	5
5"	**31KD05**	**31KD05**	5
6"	**31KJ68**	**31KJ68**	5
⅞-9 Thread			
2"	**25J655**	**25J655**	5
3"	**25J656**	**25J656**	5
4"	**31KJ69**	**31KJ69**	5
5"	**25J657**	**25J657**	5
6"	**31KJ70**	**31KJ70**	5
1-8 Thread			
2½"	**31KJ71**	**31KJ71**	1
3"	**31KJ72**	**31KJ72**	1
4"	**31KD06**	**31KD06**	1
5"	**31KD07**	**31KD07**	1
6"	**31KD08**	**31KD08**	1

Metric Set Screws

Note: Additional sizes are available; go to Grainger.com® and search for "set screws."

Overall Length	FLAT Point Item No.	FLAT Point Pkg. Qty.	CUP Point Item No.	CUP Point Pkg. Qty.	DOG Point Item No.	DOG Point Pkg. Qty.	CONE Point Item No.	CONE Point Pkg. Qty.
A2 Stainless Steel, Plain								
M1.6 x 0.35mm Thread, 0.7mm Drive								
3mm	31KA22	100	6EY64	10	—	—	—	—
5mm	—	—	6EY68	10	—	—	—	—
M2 x 0.40mm Thread, 0.9mm Drive								
3mm	—	—	6EY70	25	31JZ32	100	31KA99	100
4mm	31KA24	100	31KK49	100	—	—	31KC01	100
5mm	—	—	6EY74	25	31JZ33	100	31KC02	100
6mm	—	—	31KK50	100	31JZ34	100	31KC03	100
8mm	31KA25	100	31KK51	100	—	—	—	—
10mm	—	—	6EY80	25	—	—	31KC04	100
M2.5 x 0.45mm Thread, 1.3mm Drive								
4mm	31KA28	100	31KK52	100	31JZ35	100	31KC05	100
5mm	31KA29	100	31KK53	100	31JZ36	100	31KC06	100
6mm	—	—	31KK54	100	31JZ37	100	31KC07	100
8mm	—	—	6EY90	25	31JZ38	100	31KC08	100
10mm	31KA30	100	6EY92	10	—	—	31KC09	100
12mm	31KA31	100	—	—	31JZ39	100	31KC10	100
M3 x 0.50mm Thread, 1.5mm Drive								
3mm	6FY87	25	6EY96	100	31JZ40	100	—	—
4mm	—	—	6EY98	100	31JZ41	100	—	—
5mm	—	—	6FA10	100	31JZ42	100	—	—
6mm	31KK37	100	6FA12	100	—	—	—	—
8mm	31KK38	100	6FA14	100	31JZ43	100	—	—
10mm	31KK39	100	6FA16	100	31JZ44	100	—	—
12mm	—	—	6FA18	100	31JZ45	100	—	—
16mm	31KK41	100	31KK55	100	—	—	—	—
20mm	—	—	6FA22	50	31JZ46	100	—	—
25mm	31KA33	100	—	—	31JZ47	100	31KC11	100
M4 x 0.70mm Thread, 2mm Drive								
4mm	6FY93	25	6FA24	100	31JZ48	100	31KC12	100
5mm	31KA35	100	6FA26	100	31JZ49	100	31KC13	100
6mm	6FY95	25	6FA28	100	31JZ50	100	31KC14	100
8mm	31KK42	100	6FA30	100	31JZ51	100	31KC15	100
10mm	6FY99	50	6FA32	100	31JZ52	100	31KC16	100
12mm	31KA36	100	6FA34	50	—	—	31KC17	100
16mm	31KA37	100	6FA36	50	31JZ53	100	31KC19	100
20mm	31KA38	100	31KK56	100	31JZ54	100	31KC20	100
25mm	—	—	31KK57	100	31JZ55	100	31KC21	100
30mm	31KA39	100	—	—	31JZ56	100	31KC22	100
M5 x 0.80mm Thread, 2.50mm Drive								
5mm	31KA42	100	6FA44	100	31JZ57	100	31KC23	100
6mm	31KA43	100	6FA46	100	31JZ58	100	31KC24	100
8mm	31KA44	100	6FA48	100	31JZ59	100	31KC25	100
10mm	31KA45	100	6FA50	100	31JZ60	100	31KC26	100
12mm	31KA46	100	6FA52	25	31JZ61	100	31KC27	100
16mm	31KA47	100	6FA54	25	31JZ62	100	31KC29	100
18mm	—	—	—	—	31JZ63	100	31KC30	100
20mm	31KA48	100	—	—	31JZ64	100	31KC31	100
25mm	—	—	6FA58	25	31JZ65	100	—	—
30mm	—	—	31KK58	100	31JZ66	100	—	—
35mm	—	—	—	—	31JZ67	100	31KC32	100
40mm	—	—	6FA64	10	31JZ68	100	—	—
M6 x 1mm Thread, 3mm Drive								
5mm	31KA49	100	—	—	—	—	31KC35	100
6mm	6GA11	50	6FA66	100	31JZ69	100	31KC36	100
8mm	6GA13	25	6FA68	100	31JZ70	100	31KC37	100
10mm	31KK43	100	6FA70	100	31JZ71	100	31KC38	100
12mm	31KK44	100	6FA72	50	31JZ72	100	31KC39	100
14mm	31KA50	100	—	—	—	—	31KC40	100
16mm	31KA51	100	6FA74	25	31JZ73	100	31KC41	100
20mm	31KA52	100	6FA76	25	31JZ74	100	31KC42	100
25mm	31KA53	100	6FA78	10	31JZ75	100	31KC43	100
30mm	31KA54	100	6FA80	10	31JZ76	100	—	—
35mm	—	—	—	—	31JZ77	100	—	—
40mm	—	—	6FA84	10	31JZ78	100	31KC44	100
45mm	31KA55	100	—	—	31JZ79	100	31KC45	100
50mm	—	—	—	—	31JZ80	100	—	—
60mm	31KA56	100	—	—	31JZ81	100	31KC46	100
M8 x 1.25mm Thread, 4mm Drive								
6mm	31KA58	100	—	—	—	—	31KC47	100
8mm	31KK45	100	6FA88	100	31JZ82	100	31KC48	100
10mm	31KK46	100	6FA90	100	31JZ83	100	31KC49	100
12mm	6GA22	10	6FA92	100	31JZ84	100	31KC50	100
16mm	6GA23	10	6FA94	25	31JZ85	100	31KC51	100
20mm	6GA24	10	6FA96	10	31JZ86	100	31KC52	100
25mm	31KA59	100	6FA98	10	31JZ87	100	31KC53	100
30mm	31KA60	100	6FB10	10	31JZ88	100	—	—
35mm	—	—	31KK59	50	31JZ89	50	31KC54	50
40mm	31KA61	50	6FB14	10	31JZ90	50	31KC55	50
45mm	—	—	—	—	31JZ91	50	31KC56	50
50mm	31KA62	50	6FB16	5	31JZ92	50	—	—
60mm	—	—	—	—	31JZ93	50	31KC57	50
M10 x 1.50mm Thread, 5mm Drive								
10mm	6GA25	25	—	—	31JZ94	50	—	—
12mm	31KK47	50	—	—	31JZ95	50	31KC58	50
16mm	31KK48	50	—	—	31JZ96	50	31KC59	50
20mm	31KA65	50	6FB24	10	31JZ97	50	31KC60	50
25mm	31KA66	50	6FB26	10	31JZ98	50	31KC61	50
30mm	31KA67	50	6FB28	10	31JZ99	50	31KC62	50
35mm	—	—	—	—	31KA01	50	31KC63	50
40mm	31KA68	50	6FB32	5	31KA02	50	—	—
45mm	31KA69	50	—	—	31KA03	50	31KC64	50
50mm	—	—	6FB34	5	31KA04	50	—	—
60mm	—	—	31KC86	50	31KA05	50	31KC65	50
M12 x 1.75mm Thread, 6mm Drive								
12mm	—	—	6FB36	5	31KA06	50	—	—
16mm	—	—	31KK60	50	—	—	31KC66	50
20mm	—	—	6FB40	5	31KA07	50	—	—



Flat Point

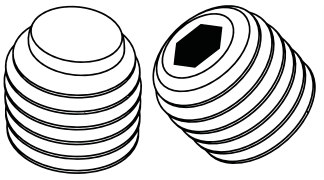


Cup Point

Overall Length	FLAT Point Item No.	FLAT Point Pkg. Qty.	CUP Point Item No.	CUP Point Pkg. Qty.	DOG Point Item No.	DOG Point Pkg. Qty.	CONE Point Item No.	CONE Point Pkg. Qty.
25mm	—	—	31KK61	50	31KA08	50	31KC67	50
30mm	31KA72	50	31KK62	50	31KA09	50	—	—
35mm	31KA73	50	6FB46	5	31KA10	50	31KC68	50
40mm	—	—	6FB48	5	31KA11	50	31KC69	50
45mm	—	—	—	—	31KA12	50	31KC70	50
50mm	31KA74	50	6FB50	5	31KA13	50	—	—
55mm	31KA75	50	—	—	31KA14	50	31KC71	50
60mm	—	—	—	—	31KA15	50	31KC72	50
70mm	31KA76	50	—	—	—	—	31KC73	50
M16 x 2mm Thread, 8mm Drive								
16mm	31KA79	25	—	—	—	—	31KC74	25
20mm	—	—	31KC87	25	31KA16	25	31KC75	25
25mm	31KA80	25	—	—	31KA17	25	31KC76	25
30mm	—	—	—	—	31KA18	25	31KC77	25
40mm	31KA82	25	—	—	31KA19	25	31KC78	25
45mm	31KA83	25	—	—	—	—	31KC79	25
50mm	31KA84	25	—	—	31KA20	25	—	—
70mm	31KA85	10	—	—	—	—	31KC81	10
M20 x 2.50mm Thread, 10mm Drive								
20mm	31KA89	10	—	—	—	—	31KC82	10
40mm	31KA92	5	—	—	—	—	31KC84	5
50mm	31KA94	5	—	—	—	—	31KC85	5
60mm	31KA95	5	—	—	—	—	—	—
Alloy Steel, Zinc Plated								
M4 x 0.70mm Thread, 2mm Drive								
4mm	31JY55	100	31JX61	100	—	—	—	—
5mm	31JY56	100	31JX62	100	—	—	—	—
6mm	31JY57	100	31JX63	100	—	—	—	—
8mm	31JY58	100	31JX64	100	—	—	—	—
10mm	31JY59	100	31JX65	100	—	—	—	—
12mm	31JY60	100	31JX66	100	—	—	—	—
16mm	31JY61	100	31JX67	100	—	—	—	—
20mm	31JY62	100	31JX68	100	—	—	—	—
M5 x 0.80mm Thread, 2.50mm Drive								
6mm	31JY63	100	31JX69	100	—	—	—	—
8mm	31JY64	100	31JX70	100	—	—	—	—
10mm	31JY65	100	31JX71	100	—	—	—	—
12mm	31JY66	100	31JX72	100	—	—	—	—
16mm	31JY67	100	31JX73	100	—	—	—	—
20mm	31JY68	100	31JX74	100	—	—	—	—
25mm	31JY69	100	31JX75	100	—	—	—	—
M6 x 1mm Thread, 3mm Drive								
6mm	31JY70	100	31JX77	100	—	—	—	—
8mm	31JY71	100	31JX78	100	—	—	—	—
10mm	31JY72	100	31JX79	100	—	—	—	—
12mm	31JY73	100	31JX80	100	—	—	—	—
16mm	31JY74	100	31JX81	100	—	—	—	—
20mm	31JY75	100	31JX82	100	—	—	—	—
25mm	31JY76	100	31JX83	100	—	—	—	—
30mm	31JY77	100	31JX84	100	—	—	—	—
M8 x 1.25mm Thread, 4mm Drive								
8mm	31JY78	100	31JX87	100	—	—	—	—
10mm	31JY79	100	31JX88	100	—	—	—	—
12mm	31JY80	100	31JX89	100	—	—	—	—
16mm	31JY81	100	31JX90	100	—	—	—	—
20mm	31JY82	100	31JX91	100	—	—	—	—
25mm	31JY83	100	31JX92	100	—	—	—	—
30mm	31JY84	100	31JX93	100	—	—	—	—
40mm	31JY85	50	31JX95	50	—	—	—	—
M10 x 1.50mm Thread, 5mm Drive								
8mm	—	—	31JX97	50	—	—	—	—
10mm	—	—	31JX98	50	—	—	—	—
12mm	31JY86	50	31JX99	50	—	—	—	—
16mm	31JY87	50	31JY01	50	—	—	—	—
20mm	31JY88	50	31JY02	50	—	—	—	—
25mm	31JY89	50	31JY03	50	—	—	—	—
30mm	31JY90	50	31JY04	50	—	—	—	—
35mm	—	—	31JY05	50	—	—	—	—
40mm	31JY91	50	31JY06	50	—	—	—	—
50mm	31JY92	50	31JY07	50	—	—	—	—
60mm	—	—	31JY08	50	—	—	—	—
M12 x 1.75mm Thread, 6mm Drive								
12mm	31JY93	50	31JY09	50	—	—	—	—
16mm	31JY94	50	31JY10	50	—	—	—	—
20mm	31JY95	50	31JY11	50	—	—	—	—
25mm	31JY96	50	31JY12	50	—	—	—	—
30mm	31JY97	50	31JY13	50	—	—	—	—
40mm	31JY98	50	31JY15	50	—	—	—	—
Steel, Black Oxide								
M3 x 0.50mm Thread, 1.5mm Drive								
3mm	—	—	—	—	31JW42	100	31JV54	100
4mm	6GA29	100	—	—	31JW43	100	31JV55	100
5mm	—	—	—	—	—	—	31JV56	100
6mm	—	—	—	—	31JW44	100	31JV57	100
8mm	—	—	—	—	31JW45	100	31JV58	100
10mm	—	—	—	—	31JW46	100	—	—
12mm	—	—	—	—	31JW47	100	31JV59	100
16mm	—	—	—	—	—	—	31JV60	100
20mm	31JW16	100	31KK18	100	31JW48	100	—	—
M4 x 0.70mm Thread, 2mm Drive								
4mm	—	—	—	—	—	—	31JV61	100

CONTINUED

CONTINUED



Half-Dog



Cone Point

Metric Set Screws

Overall Length	FLAT Item No.	FLAT Pkg. Qty.	CUP Item No.	CUP Pkg. Qty.	DOG Item No.	DOG Pkg. Qty.	CONE Item No.	CONE Pkg. Qty.
5mm	—	—	—	—	—	—	31JV62	100
6mm	—	—	—	—	31JW49	100	31JV63	100
8mm	—	—	—	—	31JW50	100	31JV64	100
10mm	—	—	—	—	31JW51	100	31JV65	100
12mm	—	—	—	—	31JW52	100	31JV66	100
16mm	—	—	—	—	31JW53	100	31JV67	100
20mm	31KJ99	100	—	—	31JW54	100	31JV68	100
25mm	31JW17	100	—	—	—	—	—	—
M5 x 0.80mm Thread, 2.50mm Drive								
5mm	—	—	—	—	—	—	31JV69	100
6mm	—	—	—	—	31JW55	100	31JV70	100
8mm	—	—	—	—	31JW56	100	31JV71	100
10mm	—	—	—	—	31JW57	100	31JV72	100
12mm	—	—	—	—	31JW58	100	31JV73	100
16mm	—	—	—	—	31JW59	100	31JV74	100
20mm	31KK01	100	—	—	31JW60	100	31JV75	100
25mm	31KK02	100	—	—	31JW61	100	31JV76	100
30mm	31JW18	100	—	—	—	—	—	—
M6 x 1mm Thread, 3mm Drive								
6mm	—	—	—	—	31JW62	100	31JV77	100
8mm	—	—	—	—	31JW63	100	31JV78	100
10mm	—	—	—	—	31JW64	100	31JV79	100
12mm	—	—	—	—	31JW65	100	31JV80	100
16mm	—	—	—	—	31JW66	100	31JV81	100
20mm	—	—	—	—	31JW67	100	31JV82	100
25mm	31JW19	100	—	—	31JW68	100	31JV83	100
30mm	31JW20	100	—	—	31JW69	100	31JV84	100
35mm	31JW21	100	31KK24	100	—	—	31JV85	100
40mm	31JW22	100	—	—	31JW70	100	—	—
45mm	31JW23	100	31KK25	100	—	—	—	—
50mm	31JW24	100	31KK26	100	31JW71	100	—	—
M8 x 1.25mm Thread, 4mm Drive								
8mm	—	—	—	—	—	—	31JV86	100
10mm	—	—	—	—	31JW72	100	31JV87	100
12mm	—	—	—	—	31JW73	100	31JV88	100
16mm	—	—	—	—	31JW74	100	31JV89	100
20mm	—	—	—	—	31JW75	100	31JV90	100

Overall Length	FLAT Item No.	FLAT Pkg. Qty.	CUP Item No.	CUP Pkg. Qty.	DOG Item No.	DOG Pkg. Qty.	CONE Item No.	CONE Pkg. Qty.
25mm	31KK03	100	—	—	31JW76	100	31JV91	100
30mm	—	—	—	—	31JW77	100	31JV92	100
35mm	31JW26	50	—	—	31JW78	50	31JV93	50
40mm	31JW27	50	—	—	31JW79	50	31JV94	50
45mm	—	—	31JX20	50	31JW80	50	—	—
50mm	31JW28	50	—	—	31JW81	50	—	—
60mm	31JW29	50	—	—	—	—	31JV95	50
70mm	31JW30	50	31JX21	50	—	—	—	—
M10 x 1.50mm Thread, 5mm Drive								
10mm	6GA67	50	31JX24	50	—	—	31JV96	50
12mm	31KK04	50	31JX25	50	31JW82	50	31JV97	50
16mm	31KK05	50	31JX26	50	31JW83	50	31JV98	50
20mm	—	—	—	—	31JW84	50	31JV99	50
25mm	31KK06	50	—	—	31JW85	50	31JW01	50
30mm	31KK07	50	—	—	31JW86	50	31JW02	50
35mm	6GA73	10	31KK27	50	31JW87	50	—	—
40mm	—	—	—	—	31JW88	50	31JW03	50
45mm	—	—	31KK28	50	31JW89	50	—	—
50mm	31KK08	50	—	—	31JW90	50	31JW04	50
60mm	31KK09	50	—	—	—	—	—	—
80mm	31JW31	50	31JX28	50	—	—	—	—
M12 x 1.75mm Thread, 6mm Drive								
12mm	31KK10	50	—	—	31JW91	50	—	—
16mm	—	—	—	—	31JW92	50	31JW05	50
20mm	—	—	—	—	31JW93	50	31JW06	50
25mm	31KK11	50	31KK30	50	31JW94	50	31JW07	50
30mm	31KK12	50	—	—	31JW95	50	31JW08	50
35mm	31KK13	50	—	—	31JW96	50	—	—
40mm	31KK14	50	—	—	31JW97	50	31JW09	50
45mm	—	—	31KK31	50	31JW98	50	—	—
50mm	31KK15	50	—	—	31JW99	50	31JW10	50
60mm	31JW32	50	—	—	—	—	—	—
M16 x 2mm Thread, 8mm Drive								
16mm	31JW33	25	—	—	31JX01	25	31JW11	25
20mm	31JW34	25	—	—	31JX02	25	—	—
25mm	31JW35	25	31KK32	25	31JX03	25	31JW12	25
30mm	31JW36	25	—	—	31JX04	25	31JW13	25
35mm	—	—	31KK33	25	31JX05	25	31JW14	25
40mm	31JW37	25	—	—	31JX06	25	—	—
50mm	31JW38	25	—	—	31JX07	25	31JW15	25
60mm	31JW39	10	—	—	31JX08	10	—	—
80mm	31JW40	10	31KK35	10	—	—	—	—
M20 x 2.50mm Thread, 10mm Drive								
20mm	31JW41	10	31KK36	10	—	—	—	—
50mm	—	—	—	—	31JX11	5	—	—
Steel, Zinc Plated								
M3 x 0.50mm Thread, 1.5mm Drive								
4mm	—	—	31JX54	100	—	—	—	—
5mm	—	—	31JX55	100	—	—	—	—
6mm	—	—	31JX56	100	—	—	—	—
8mm	—	—	31JX57	100	—	—	—	—
10mm	—	—	31JX58	100	—	—	—	—
12mm	—	—	31JX59	100	—	—	—	—
16mm	—	—	31JX60	100	—	—	—	—



Knurled Cup Point Alloy Steel Socket Set Screws

- Thread class: 3A

Overall Length	Item No.	Item No.	Pkg. Qty.
4-40 Thread, 0.050" Drive			
1/8"	1HLL2	1HLL2	100
6-32 Thread, 1/16" Drive			
1/8"	1HLL3	1HLL3	100
3/16"	1HLL4	1HLL4	100
1/4"	1HLL5	1HLL5	100
5/16"	25J695	25J695	100
3/8"	25J696	25J696	100
1/2"	25J697	25J697	100
8-32 Thread, 5/64" Drive			
1/8"	1HLL6	1HLL6	100
3/16"	1HLL7	1HLL7	100
1/4"	1HLL8	1HLL8	100
5/16"	25J698	25J698	100
3/8"	1HLL9	1HLL9	100
1/2"	25J699	25J699	100
5/8"	25J701	25J701	100
3/4"	25J702	25J702	100
10-24 Thread, 3/32" Drive			
3/16"	25J703	25J703	100
1/4"	1HLN1	1HLN1	100
5/16"	25J704	25J704	100
3/8"	25J705	25J705	100
1/2"	25J706	25J706	100
5/8"	25J707	25J707	100
3/4"	25J708	25J708	100
1"	25J709	25J709	100
10-32 Thread, 3/32" Drive			
3/16"	1HLN2	1HLN2	100
1/4"	1HLN3	1HLN3	100
5/16"	25J710	25J710	100

Overall Length	Item No.	Item No.	Pkg. Qty.
3/8"	1HLN4	1HLN4	100
1/2"	1HLN5	1HLN5	100
5/8"	25J711	25J711	100
3/4"	25J712	25J712	100
1"	25J713	25J713	100
1/4-20 Thread, 1/8" Drive			
3/16"	1HLN6	1HLN6	100
1/4"	1HLN7	1HLN7	100
5/16"	1HLN8	1HLN8	100
3/8"	1HLN9	1HLN9	100
1/2"	1HLR1	1HLR1	100
5/8"	25J714	25J714	100
3/4"	1HLR2	1HLR2	100
1"	25J715	25J715	100
1 1/4"	25J716	25J716	100
1/4-28 Thread, 1/8" Drive			
3/16"	1HLR3	1HLR3	100
1/4"	1HLR4	1HLR4	100
5/16"	1HLR5	1HLR5	100
3/8"	1HLR6	1HLR6	100
1/2"	25J717	25J717	100
5/16-18 Thread, 5/32" Drive			
1/4"	1HLR7	1HLR7	100
5/16"	1HLR8	1HLR8	100
3/8"	1HLR9	1HLR9	100
1/2"	1HLT1	1HLT1	100
5/8"	1HLT2	1HLT2	100
3/4"	1HLT3	1HLT3	100
5/16-24 Thread, 5/32" Drive			
1/4"	1HLT5	1HLT5	100
5/16"	1HLT6	1HLT6	100

Overall Length	Item No.	Item No.	Pkg. Qty.
3/8"	1HLT7	1HLT7	100
1/2"	1HLT8	1HLT8	100
5/8"	25J718	25J718	100
3/4"	25J719	25J719	100
3/8-16 Thread, 3/16" Drive			
3/8"	1HLT9	1HLT9	100
1/2"	1HLU1	1HLU1	100
5/8"	25J720	25J720	100
3/4"	5XCX3	5XCX3	100
1"	5XCX4	5XCX4	100
1 1/4"	30P138	30P138	100
3/8-24 Thread, 3/16" Drive			
3/8"	1HLU4	1HLU4	100
1/2"	1HLU5	1HLU5	100
5/8"	25J721	25J721	100
3/4"	25J722	25J722	50
1/2-13 Thread, 1/4" Drive			
1/2"	1HLU6	1HLU6	50
5/8"	1HLU7	1HLU7	25
3/4"	1HLU8	1HLU8	25
1"	1HLU9	1HLU9	25
1 1/4"	25J723	25J723	25
M3 x 0.50mm Thread, 1.5mm Drive			
4mm	31JY99	31JY99	100
5mm	31JZ01	31JZ01	100
6mm	31JZ02	31JZ02	100
8mm	31JZ03	31JZ03	100
10mm	31JZ04	31JZ04	100
M4 x 0.70mm Thread, 2mm Drive			
5mm	31JZ05	31JZ05	100
6mm	31JZ06	31JZ06	100

Overall Length	Item No.	Item No.	Pkg. Qty.
8mm	31JZ07	31JZ07	100
10mm	31JZ08	31JZ08	100
12mm	31JZ09	31JZ09	100
16mm	31JZ10	31JZ10	100
M5 x 0.80mm Thread, 2.50mm Drive			
5mm	31JZ11	31JZ11	100
6mm	31JZ12	31JZ12	100
8mm	31JZ13	31JZ13	100
10mm	31JZ14	31JZ14	100
12mm	31JZ15	31JZ15	100
16mm	31JZ16	31JZ16	100
20mm	31JZ17	31JZ17	100
M6 x 1mm Thread, 3mm Drive			
6mm	31JZ18	31JZ18	100
8mm	31JZ19	31JZ19	100
10mm	31JZ20	31JZ20	100
12mm	31JZ21	31JZ21	100
16mm	31JZ22	31JZ22	100
20mm	31JZ23	31JZ23	100
25mm	31JZ24	31JZ24	100
M8 x 1.25mm Thread, 4mm Drive			
8mm	31JZ25	31JZ25	100
10mm	31JZ26	31JZ26	100
12mm	31JZ27	31JZ27	100
16mm	31JZ28	31JZ28	100
20mm	31JZ29	31JZ29	100
25mm	31JZ30	31JZ30	100
30mm	31JZ31	31JZ31	100

Made in North America Overall Length	Item No.	Item No.	Pkg. Qty.
6-32 Thread, 1/16" Drive			
1/8"	5YNZ2	5YNZ2	100
3/16"	5YNZ3	5YNZ3	100
1/4"	5YNZ4	5YNZ4	100
8-32 Thread, 5/64" Drive			
1/8"	5YNZ5	5YNZ5	100
1/4"	5YNZ6	5YNZ6	100
3/8"	5YNZ7	5YNZ7	100
10-24 Thread, 3/32" Drive			
1/4"	5YNZ8	5YNZ8	100
1/4-20 Thread, 1/8" Drive			
3/16"	5YNZ9	5YNZ9	100
1/4"	5YPA0	5YPA0	100
5/16"	5YPA1	5YPA1	100
3/8"	5YPA2	5YPA2	100
1/2"	5YPA3	5YPA3	100
3/4"	5YPA4	5YPA4	100
5/16-18 Thread, 5/32" Drive			
1/4"	5YPA5	5YPA5	100
5/16"	5YPA6	5YPA6	100
3/8"	5YPA7	5YPA7	100
1/2"	5YPA8	5YPA8	100
3/8-16 Thread, 3/16" Drive			
3/8"	5YPA9	5YPA9	100

Cup Point Alloy Steel Socket Set Screws



- Thread class: 3A

Note: Additional sizes are available; go to Grainger.com® and search for "set screws."

Overall Length	Item No.	Item No.	Pkg. Qty.
0-80 Thread, 0.028" Drive			
1/16"	5WJV2	5WJV2	50
3/32"	5WJV3	5WJV3	50
1/8"	5WJV4	5WJV4	50
3/16"	5WJV5	5WJV5	50
1/4"	5WJV6	5WJV6	50
1-72 Thread, 0.028" Drive			
1/16"	5WJV7	5WJV7	50
3/32"	5WJV8	5WJV8	50
1/8"	5WJV9	5WJV9	50
3/16"	5WJW0	5WJW0	50
1/4"	5WJW1	5WJW1	50
2-56 Thread, 0.035" Drive			
1/16"	5WJW2	5WJW2	100
3/32"	5WJW3	5WJW3	100
1/8"	5WJW4	5WJW4	100
3/16"	5WJW5	5WJW5	100
1/4"	5WJW6	5WJW6	100
3-48 Thread, 0.050" Drive			
1/16"	30P097	30P097	100
3/32"	5WJW7	5WJW7	100
1/8"	5WJW8	5WJW8	100
1/4"	6ZE61	6ZE61	100
5/16"	31KL08	31KL08	100
1/2"	31KL09	31KL09	100
5/8"	31KD65	31KD65	100
3/4"	31KD66	31KD66	100
4-40 Thread, 0.050" Drive			
3/32"	31KL10	31KL10	100
1/8"	6ZE69	6ZE69	100
3/16"	6ZE71	6ZE71	100
3/4"	31KL11	31KL11	100
1"	31KL12	31KL12	100
4-48 Thread, 0.050" Drive			
3/16"	5WJX8	5WJX8	100
1/4"	5WJX9	5WJX9	100
1/2"	31KL41	31KL41	100
5-40 Thread, 1/16" Drive			
7/16"	5WJY7	5WJY7	100
5/8"	5WJY9	5WJY9	100
3/4"	5WJZ0	5WJZ0	100
1"	31KL13	31KL13	100
5-44 Thread, 1/16" Drive			
1/8"	5WJZ2	5WJZ2	100
3/16"	5WJZ3	5WJZ3	100
1/4"	5WJZ4	5WJZ4	100
1/2"	31KD82	31KD82	100
6-32 Thread, 1/16" Drive			
3/16"	6ZU48	6ZU48	100
7/8"	5WKA0	5WKA0	100
6-40 Thread, 1/16" Drive			
5/16"	5WKA7	5WKA7	100
1/2"	31KD83	31KD83	100
8-32 Thread, 5/64" Drive			
3/16"	6ZU92	6ZU92	100
1/4"	6ZU95	6ZU95	100
3/8"	6ZY11	6ZY11	100
7/16"	6ZY14	6ZY14	100
1/2"	6ZY17	6ZY17	100
7/8"	5MNT0	5MNT0	100
1 1/4"	31KL14	31KL14	100
1 1/2"	31KL15	31KL15	100
8-36 Thread, 5/64" Drive			
1/8"	5MNT3	5MNT3	100
3/16"	6ZY41	6ZY41	100
1/4"	6ZY44	6ZY44	100
5/16"	6ZY47	6ZY47	100
3/8"	6ZY50	6ZY50	100
1/2"	5MNT4	5MNT4	100
10-24 Thread, 3/32" Drive			
1/8"	30P099	30P099	100
1/4"	6ZY58	6ZY58	100
3/8"	6ZY64	6ZY64	100
1/2"	6ZY67	6ZY67	100
7/8"	1HLV1	1HLV1	100
1 1/4"	5MNT8	5MNT8	100
1 1/2"	31KL16	31KL16	100
2"	31KD67	31KD67	50
10-32 Thread, 3/32" Drive			
1/8"	6ZY88	6ZY88	100
3/16"	6ZY91	6ZY91	100
1/4"	6ZY94	6ZY94	100
3/8"	3MY89	3MY89	100
1/2"	3MB67	3MB67	100
7/8"	5MNU0	5MNU0	100
1 1/2"	31KD84	31KD84	100
1 3/4"	31KL42	31KL42	100
2"	31KD85	31KD85	50

Overall Length	Item No.	Item No.	Pkg. Qty.
1/4-20 Thread, 1/8" Drive			
3/16"	3MB95	3MB95	100
1/4"	3KB76	3KB76	100
5/16"	3KB81	3KB81	100
3/8"	3KE72	3KE72	100
1/2"	3KE76	3KE76	100
5/8"	3KE80	3KE80	100
3/4"	3KE83	3KE83	100
1"	3KE91	3KE91	100
1 1/8"	31KL17	31KL17	100
1 1/4"	3KE98	3KE98	100
1 1/2"	5XCJ1	5XCJ1	100
2 1/4"	31KL18	31KL18	100
2 1/2"	31KD68	31KD68	50
3"	31KD69	31KD69	50
1/4-28 Thread, 1/8" Drive			
3/16"	5WJX7	5WJX7	100
1/4"	3KU33	3KU33	100
5/16"	3KU36	3KU36	100
3/8"	3KU40	3KU40	100
1/2"	3KU44	3KU44	100
5/8"	3KU47	3KU47	100
1"	3KU55	3KU55	100
1 1/2"	31KL43	31KL43	100
1 3/4"	31KL44	31KL44	100
2"	31KD86	31KD86	100
2 1/2"	31KD87	31KD87	50
5/16-18 Thread, 5/32" Drive			
3/16"	31KD70	31KD70	100
1/4"	3FY73	3FY73	100
5/16"	3FY76	3FY76	100
3/8"	3FY80	3FY80	100
1/2"	3FA79	3FA79	100
5/8"	3FA84	3FA84	100
3/4"	4FA47	4FA47	100
7/8"	4FA88	4FA88	100
1"	3VE15	3VE15	100
2 1/4"	31KL19	31KL19	100
2 1/2"	31KD71	31KD71	50
2 3/4"	31KD72	31KD72	50
5/16-24 Thread, 5/32" Drive			
1/4"	4BE47	4BE47	100
5/16"	4BU39	4BU39	100
3/8"	4BU44	4BU44	100
1/2"	4BU49	4BU49	100
5/8"	4BU53	4BU53	100
3/4"	4BU58	4BU58	100
1 1/4"	31KL45	31KL45	100
1 1/2"	31KD88	31KD88	100
1 3/4"	31KL46	31KL46	100
2"	31KL47	31KL47	100
2 1/2"	31KD89	31KD89	50
3/8-16 Thread, 3/16" Drive			
1/4"	5XCN0	5XCN0	100
5/16"	4YE84	4YE84	100
3/8"	5WB52	5WB52	100
7/16"	5WE16	5WE16	100
1/2"	6NU12	6NU12	100
5/8"	6NU17	6NU17	100
3/4"	5XCN4	5XCN4	100
1"	5XCN6	5XCN6	100
1 1/2"	6NU42	6NU42	50
1 3/4"	6NU47	6NU47	50
2"	1AB37	1AB37	25
2 1/4"	1AB40	1AB40	25
2 1/2"	1AB43	1AB43	25
2 3/4"	5WKA1	5WKA1	10
3"	1AB49	1AB49	10
3/8-24 Thread, 3/16" Drive			
5/16"	5WKA6	5WKA6	100
3/8"	1AB58	1AB58	100
5/8"	5XCP4	5XCP4	100
1 1/2"	5WKC3	5WKC3	50
1 3/4"	31KL48	31KL48	50
2"	1AB82	1AB82	25
2 1/2"	31KD90	31KD90	25
7/16-14 Thread, 7/32" Drive			
3/8"	1AB85	1AB85	50
7/16"	1AB88	1AB88	50
1/2"	1AB91	1AB91	50
5/8"	1AB94	1AB94	50
3/4"	5MNR5	5MNR5	50
7/8"	5MNR6	5MNR6	50
1"	1AE13	1AE13	50
1 1/4"	31KJ79	31KJ79	25
1 1/2"	1AE19	1AE19	25
1 3/4"	5MNR7	5MNR7	25
2"	31KD73	31KD73	10
2 1/4"	1AE28	1AE28	10

Overall Length	Item No.	Item No.	Pkg. Qty.
7/16-20 Thread, 7/32" Drive			
3/8"	5MNR9	5MNR9	50
7/16"	1AE34	1AE34	50
1/2"	1AE37	1AE37	50
5/8"	31KL49	31KL49	50
3/4"	31KL50	31KL50	50
7/8"	31KL51	31KL51	50
1"	31KL52	31KL52	50
1 1/4"	1AE54	1AE54	25
1 1/2"	31KD91	31KD91	25
1 3/4"	1AE60	1AE60	25
2"	1AE63	1AE63	10
1/2-13 Thread, 1/4" Drive			
3/8"	1AE66	1AE66	50
7/16"	31KD74	31KD74	50
1/2"	1AE69	1AE69	50
5/8"	1AE72	1AE72	50
3/4"	31KJ80	31KJ80	25
7/8"	31KJ81	31KJ81	25
1"	31KJ82	31KJ82	25
1 1/4"	31KJ83	31KJ83	25
1 1/2"	1AE87	1AE87	25
1 3/4"	1AE90	1AE90	25
2"	31KJ84	31KJ84	10
2 1/4"	1AE96	1AE96	10
2 1/2"	31KD75	31KD75	10
3"	5MNT2	5MNT2	10
3 1/2"	1AJ22	1AJ22	10
4"	31KD76	31KD76	10
1/2-20 Thread, 1/4" Drive			
3/8"	1AJ32	1AJ32	25
1/2"	1AJ35	1AJ35	50
5/8"	5MNT5	5MNT5	50
3/4"	31KJ97	31KJ97	25
1"	31KJ98	31KJ98	25
1 1/4"	31KD92	31KD92	25
1 1/2"	1AJ55	1AJ55	10
1 3/4"	31KL53	31KL53	25
2"	31KD93	31KD93	10
2 1/2"	31KD94	31KD94	10
3"	1AJ70	1AJ70	10
5/8-11 Thread, 5/16" Drive			
1/2"	1AJ74	1AJ74	10
5/8"	1AJ77	1AJ77	10
3/4"	1AJ82	1AJ82	10
1"	1AJ87	1AJ87	10
1 1/4"	31KJ85	31KJ85	10
1 1/2"	31KJ86	31KJ86	10
1 3/4"	31KJ87	31KJ87	10
2"	31KJ88	31KJ88	10
2 1/4"	31KD77	31KD77	10
2 1/2"	31KD78	31KD78	10
3"	31KD79	31KD79	5
3 1/2"	30P101	30P101	25
4"	31KD80	31KD80	5
5/8-18 Thread, 5/16" Drive			
1/2"	5MNT9	5MNT9	10
5/8"	1AU31	1AU31	10
3/4"	1AU35	1AU35	10
1"	1AU38	1AU38	10
1 1/2"	1AU41	1AU41	10
2"	1AU44	1AU44	10
3/4-10 Thread, 3/8" Drive			
5/8"	31KJ89	31KJ89	5
3/4"	31KJ90	31KJ90	5
7/8"	31KJ91	31KJ91	5
1"	31KJ92	31KJ92	5
1 1/4"	1AU62	1AU62	5
1 1/2"	1AU66	1AU66	5
1 3/4"	1AU69	1AU69	5
2"	1AU72	1AU72	5
2 1/2"	1AU75	1AU75	5
3"	1AU78	1AU78	5
3 1/2"	31KJ93	31KJ93	5
4"	1AU84	1AU84	5
3/4-16 Thread, 3/8" Drive			
3/4"	1AU87	1AU87	5
1"	1AU90	1AU90	5
1 1/2"	1AU93	1AU93	5
1 3/4"	1AU96	1AU96	5
2"	1AU99	1AU99	5
2 1/2"	31KD95	31KD95	5
3"	1AV17	1AV17	5
7/8-9 Thread, 1/2" Drive			
7/8"	5MNU4	5MNU4	5
1"	5MNU5	5MNU5	5
1 1/4"	5MNU6	5MNU6	5
1 1/2"	31KJ94	31KJ94	5

Overall Length	Item No.	Item No.	Pkg. Qty.
2"	5MNU7	5MNU7	5
2 1/2"	5MNU8	5MNU8	1
3"	5MNU9	5MNU9	1
4"	31KD81	31KD81	1
1-8 Thread, 9/16" Drive			
1"	31KJ95	31KJ95	1
1 1/2"	31KJ96	31KJ96	1
2"	5MNV2	5MNV2	1
2 1/2"	5MNV3	5MNV3	1
3"	5MNV4	5MNV4	1

Made in North America

Overall Length	Item No.	Item No.	Pkg. Qty.
4-40 Thread, 0.050" Drive			
1/8"	5TAU5	5TAU5	100
3/16"	5TAU6	5TAU6	100
1/4"	5TAU7	5TAU7	100
5/16"	5TAU8	5TAU8	100
3/8"	5TAU9	5TAU9	100
1/2"	5TAV0	5TAV0	100
5/8"	5TAV1	5TAV1	100
4-48 Thread, 0.050" Drive			
1/8"	5YNU5	5YNU5	100
1/4"	5YNU7	5YNU7	100
5-40 Thread, 1/16" Drive			
1/8"	5TAV2	5TAV2	100
3/16"	5TAV3	5TAV3	100
1/4"	5TAV4	5TAV4	100
5/16"	5TAV5	5TAV5	100
1/2"	5TAV6	5TAV6	100
5/8"	5TAV7	5TAV7	100
3/4"	5TAV8	5TAV8	100
6-32 Thread, 1/16" Drive			
1/8"	5TAV9	5TAV9	100
3/16"	5TAW0	5TAW0	100
1/4"	5TAW1	5TAW1	100
5/16"	5TAW2	5TAW2	100
3/8"	5TAW3	5TAW3	100
1/2"	5TAW4	5TAW4	100
5/8"	5TAW5	5TAW5	100
3/4"	5TAW6	5TAW6	100
7/8"	5TAW7	5TAW7	100
1"	5TAW8	5TAW8	100
6-40 Thread, 1/16" Drive			
1/8"	5YNU9	5YNU9	100
3/16"	5YNV0	5YNV0	100
1/4"	5YNV1	5YNV1	100
3/8"	5YNV2	5YNV2	100
8-32 Thread, 5/64" Drive			
1/8"	5TAW9	5TAW9	100
3/16"	5TAX0	5TAX0	100
1/4"	5TAX1	5TAX1	100
5/16"	5TAX2	5TAX2	100
3/8"	5TAX3	5TAX3	100
1/2"	5TAX4	5TAX4	100
5/8"	5TAX5	5TAX5	100
3/4"	5TAX6	5TAX6	100
7/8"	5TAX7	5TAX7	100
1"	5TAX8	5TAX8	100
8-36 Thread, 5/64" Drive			
1/4"	5YNV3	5YNV3	100
3/8"	5YNV4	5YNV4	100
10-24 Thread, 3/32" Drive			
3/16"	5TAX9	5TAX9	100
1/4"	5TAY0	5TAY0	100
5/16"	5TAY1	5TAY1	100
3/8"	5TAY2	5TAY2	100
1/2"	5TAY3	5TAY3	100
5/8"	5TAY4	5TAY4	100
3/4"	5TAY5	5TAY5	100
7/8"	5TAY6	5TAY6	100
1"	5TAY7	5TAY7	100
1 1/4"	5TAY8	5TAY8	100
10-32 Thread, 3/32" Drive			
3/16"	5YNV5	5YNV5	100
1/4"	5YNV6	5YNV6	100
5/16"	5YNV7	5YNV7	100
3/8"	5YNV8	5YNV8	100
1/2"	5YNV9	5YNV9	100
5/8"	5YNW0	5YNW0	100
3/4"	5YNW1	5YNW1	100
1"	5YNW2	5YNW2	100
1 1/4"	5YNW3	5YNW3	100
1/4-20 Thread, 1/8" Drive			
3/16"	5TAY9	5TAY9	100
1/4"	5TAZ0	5TAZ0	100
5/16"	5TAZ1	5TAZ1	100
3/8"	5TAZ2	5TAZ2	100

Made in North America

Overall Length	Item No.	Item No.	Pkg. Qty.
1/2"	5TAZ3	5TAZ3	100
5/8"	5TAZ4	5TAZ4	100
3/4"	5TAZ5	5TAZ5	100
7/8"	5TAZ6	5TAZ6	100
1"	5TAZ7	5TAZ7	100
1 1/4"	5TAZ8	5TAZ8	100
1 1/2"	5TAZ9	5TAZ9	100
1 3/4"	5TCA0	5TCA0	50
2"	5TCA1	5TCA1	50
1/4-28 Thread, 1/8" Drive			
3/16"	5YNW4	5YNW4	100
1/4"	5YNW5	5YNW5	100
5/16"	5YNW6	5YNW6	100
3/8"	5YNW7	5YNW7	100
1/2"	5YNW8	5YNW8	100
3/4"	5YNX0	5YNX0	100
1"	5YNX1	5YNX1	100
5/16-18 Thread, 5/32" Drive			
1/4"	5TCA2	5TCA2	100
5/16"	5TCA3	5TCA3	100
3/8"	5TCA4	5TCA4	100
7/16"	5TCA5	5TCA5	100
1/2"	5TCA6	5TCA6	100
5/8"	5TCA7	5TCA7	100
3/4"	5TCA9	5TCA9	100
1"	5TCC1	5TCC1	100
1 1/4"	5TCC2	5TCC2	100
1 1/2"	5TCC3	5TCC3	100
1 3/4"	5TCC4	5TCC4	50
2"	5TCC5	5TCC5	50
5/16-24 Thread, 5/32" Drive			
1/4"	5YNX3	5YNX3	100
5/16"	5YNX4	5YNX4	100
3/8"	5YNX5	5YNX5	100
1/2"	5YNX6	5YNX6	100
5/8"	5YNX7	5YNX7	100
3/4"	5TCA8	5TCA8	100
1"	5YNX8	5YNX8	100
3/8-16 Thread, 3/16" Drive			
1/4"	5TCC6	5TCC6	100
3/8"	5TCC7	5TCC7	100
1/2"	5TCC8	5TCC8	100
5/8"	5TCC9	5TCC9	100
3/4"	5TCD0	5TCD0	100
1"	5TCD1	5TCD1	100
1 1/4"	5TCD2	5TCD2	100
1 1/2"	5TCD3	5TCD3	100
1 3/4"	5TCD4	5TCD4	50
2 1/2"	5TCD5	5TCD5	100
3/8-24 Thread, 3/16" Drive			
1/4"	5YNX9	5YNX9	100
3/8"	5YNY0	5YNY0	100
1/2"	5YNY2	5YNY2	100
5/8"	5YNY3	5YNY3	100
3/4"	5YNY4	5YNY4	100
1"	5YNY5	5YNY5	100
1 1/4"	5YNY6	5YNY6	100
1 1/2"	5YNY1	5YNY1	100
7/16-14 Thread, 7/32" Drive			
1/2"	5TCD6	5TCD6	100
5/8"	5TCD7	5TCD7	100
3/4"	5TCD8	5TCD8	100
1"	5TCD9	5TCD9	50
1 1/4"	5TCE0	5TCE0	50
1 1/2"	5TCE1	5TCE1	50
2"	5TCE2	5TCE2	50
7/16-20 Thread, 7/32" Drive			
3/8"	5YNY7	5YNY7	100
1/2"	5YNY8	5YNY8	100
1/2-13 Thread, 1/4" Drive			
3/8"	5TCE3	5TCE3	100
1/2"	5YNT4	5YNT4	100
5/8"	5YNT5	5YNT5	100
3/4"	5YNT6	5YNT6	100
7/8"	5YNT7	5YNT7	50
1"	5YNT8	5YNT8	50
1 1/4"	5YNT9	5YNT9	50
1 1/2"	5YNU0	5YNU0	50
1 3/4"	5YNU1	5YNU1	25
2"	5YNU2	5YNU2	25
2 1/2"	5YNU3	5YNU3	25
3"	5YNU4	5YNU4	25
1/2-20 Thread, 1/4" Drive			
1/2"	5YNY9	5YNY9	100
3/4"	5YNZ0	5YNZ0	100
1"	5YNZ1	5YNZ1	50



Flat Point Alloy Steel Socket Set Screws

Overall Length	Finish	Item No.	Item No.	Pkg. Qty.
4-40 Thread, 0.050" Drive				
1/8"	Plain	25J660	25J660	100
1/8"	Zinc	31KD96	31KD96	100
3/16"	Plain	25J661	25J661	100
3/16"	Zinc	31KD97	31KD97	100
1/4"	Plain	25J662	25J662	100
1/4"	Zinc	31KD98	31KD98	100
3/8"	Plain	25J663	25J663	100
3/8"	Zinc	31KD99	31KD99	100
5-40 Thread, 1/16" Drive				
1/8"	Plain	30P136	30P136	100
1/8"	Zinc	31KE01	31KE01	100
3/16"	Plain	31KD09	31KD09	100
3/16"	Zinc	31KE02	31KE02	100
1/4"	Plain	25J664	25J664	100
1/4"	Zinc	31KE03	31KE03	100
3/8"	Plain	31KD10	31KD10	100
3/8"	Zinc	31KE04	31KE04	100
1/2"	Plain	31KD11	31KD11	100
1/2"	Zinc	31KE05	31KE05	100
6-32 Thread, 1/16" Drive				
1/8"	Plain	25J665	25J665	100
1/8"	Zinc	31KE06	31KE06	100
3/16"	Plain	25J666	25J666	100
3/16"	Zinc	31KE07	31KE07	100
1/4"	Plain	25J667	25J667	100
1/4"	Zinc	31KE08	31KE08	100
5/16"	Plain	25J668	25J668	100
5/16"	Zinc	31KE09	31KE09	100
3/8"	Plain	25J669	25J669	100
3/8"	Zinc	31KE10	31KE10	100
1/2"	Plain	31KD12	31KD12	100
1/2"	Zinc	31KE11	31KE11	100
5/8"	Plain	31KD13	31KD13	100
5/8"	Zinc	31KE12	31KE12	100
3/4"	Plain	31KD14	31KD14	100
3/4"	Zinc	31KE13	31KE13	100
1"	Plain	31KD15	31KD15	100
1"	Zinc	31KE14	31KE14	100
8-32 Thread, 9/64" Drive				
1/8"	Plain	5WJR5	5WJR5	50
1/8"	Zinc	31KE15	31KE15	100
3/16"	Zinc	31KE16	31KE16	100
3/16"	Plain	31KK72	31KK72	100
1/4"	Plain	31KE17	31KE17	100
1/4"	Plain	31KK73	31KK73	100
5/16"	Zinc	31KE18	31KE18	100
5/16"	Plain	31KK74	31KK74	100
3/8"	Zinc	31KE19	31KE19	100
3/8"	Plain	31KK75	31KK75	100
1/2"	Zinc	31KE20	31KE20	100
1/2"	Plain	31KK76	31KK76	100
5/8"	Plain	31KD16	31KD16	100
5/8"	Zinc	31KE21	31KE21	100
3/4"	Plain	31KD17	31KD17	100
3/4"	Zinc	31KE22	31KE22	100
1"	Plain	31KD18	31KD18	100
1"	Zinc	31KE23	31KE23	100
10-24 Thread, 3/32" Drive				
3/16"	Zinc	31KE24	31KE24	100
3/16"	Plain	31KK77	31KK77	100
1/4"	Zinc	31KE25	31KE25	100
1/4"	Plain	31KK78	31KK78	100
5/16"	Zinc	31KE26	31KE26	100
5/16"	Plain	31KK79	31KK79	100
3/8"	Zinc	31KE27	31KE27	100
3/8"	Plain	31KK80	31KK80	100
1/2"	Zinc	31KE28	31KE28	100
1/2"	Plain	31KK81	31KK81	100
5/8"	Zinc	31KE29	31KE29	100
5/8"	Plain	31KK82	31KK82	100
3/4"	Zinc	31KE30	31KE30	100
3/4"	Plain	31KK83	31KK83	100
1"	Plain	31KD19	31KD19	100
1"	Zinc	31KE31	31KE31	100
1 1/4"	Plain	31KD20	31KD20	100
1 1/4"	Zinc	31KE32	31KE32	100
1 1/2"	Plain	31KD21	31KD21	100
1 1/2"	Zinc	31KE33	31KE33	100
10-32 Thread, 3/32" Drive				
3/16"	Plain	25J682	25J682	50
1/4"	Plain	25J683	25J683	50
1/4-20 Thread, 1/8" Drive				
3/16"	Zinc	31KE34	31KE34	100
3/16"	Plain	31KK84	31KK84	100
1/4"	Plain	25J685	25J685	50
1/4"	Zinc	31KE35	31KE35	100
5/16"	Zinc	31KE36	31KE36	100
5/16"	Plain	31KK85	31KK85	100
3/8"	Zinc	31KE37	31KE37	100
3/8"	Plain	31KK86	31KK86	100
1/2"	Zinc	31KE38	31KE38	100
1/2"	Plain	31KK87	31KK87	100
5/8"	Zinc	31KE39	31KE39	100
5/8"	Plain	31KK88	31KK88	100
3/4"	Zinc	31KE40	31KE40	100
3/4"	Plain	31KK89	31KK89	100
1"	Zinc	31KE41	31KE41	100
1"	Plain	31KK90	31KK90	100
1 1/4"	Plain	31KD22	31KD22	100
1 1/4"	Zinc	31KE42	31KE42	100
1 1/2"	Plain	31KD23	31KD23	100
1 1/2"	Zinc	31KE43	31KE43	100
1 3/4"	Plain	31KD24	31KD24	100
1 3/4"	Zinc	31KE44	31KE44	100
2"	Plain	31KD25	31KD25	100
2"	Zinc	31KE45	31KE45	100
1/4-28 Thread, 1/8" Drive				
1/4"	Plain	25J688	25J688	50
3/8"	Plain	25J689	25J689	50
5/16-18 Thread, 5/32" Drive				
3/16"	Plain	31KD26	31KD26	100
3/16"	Zinc	31KE46	31KE46	100
1/4"	Zinc	31KE47	31KE47	100
1/4"	Plain	31KK91	31KK91	100
5/16"	Zinc	31KE48	31KE48	100
5/16"	Plain	31KK92	31KK92	100
3/8"	Zinc	31KE49	31KE49	100
3/8"	Plain	31KK93	31KK93	100
1/2"	Zinc	31KE50	31KE50	100
1/2"	Plain	31KK94	31KK94	100
1/2"	Natural	4FXE2	4FXE2	10
5/8"	Zinc	31KE51	31KE51	100
5/8"	Plain	31KK95	31KK95	100
3/4"	Zinc	31KE52	31KE52	100
3/4"	Plain	31KK96	31KK96	100
1"	Zinc	31KE53	31KE53	100
1"	Plain	31KK97	31KK97	100
1 1/4"	Plain	31KD27	31KD27	100
1 1/4"	Zinc	31KE54	31KE54	100
1 1/2"	Plain	31KD28	31KD28	100
1 1/2"	Zinc	31KE55	31KE55	100
1 3/4"	Plain	31KD29	31KD29	100
1 3/4"	Zinc	31KE56	31KE56	100
2"	Plain	31KD30	31KD30	100
2"	Zinc	31KE57	31KE57	100
5/16-24 Thread, 5/32" Drive				
5/16"	Plain	25J693	25J693	50
3/8"	Plain	5WJP6	5WJP6	50
3/8-16 Thread, 3/16" Drive				
1/4"	Zinc	31KE58	31KE58	100
1/4"	Plain	31KK98	31KK98	100
5/16"	Zinc	31KE59	31KE59	100
5/16"	Plain	31KK99	31KK99	100
3/8"	Zinc	31KE60	31KE60	100
3/8"	Plain	31KL01	31KL01	100
1/2"	Zinc	31KE61	31KE61	100
1/2"	Plain	31KL02	31KL02	100
5/8"	Zinc	31KE62	31KE62	100
5/8"	Plain	31KL03	31KL03	100
3/4"	Zinc	31KE63	31KE63	100
3/4"	Plain	31KL04	31KL04	100
1"	Zinc	31KE64	31KE64	100
1"	Plain	31KL05	31KL05	100
1 1/4"	Plain	31KD31	31KD31	100
1 1/4"	Zinc	31KE65	31KE65	100
1 1/2"	Plain	31KD32	31KD32	50
1 1/2"	Zinc	31KE66	31KE66	50
1 3/4"	Plain	31KD33	31KD33	50
1 3/4"	Zinc	31KE67	31KE67	50
2"	Plain	31KD34	31KD34	25
2"	Zinc	31KE68	31KE68	25
2 1/2"	Plain	31KD35	31KD35	25
2 1/2"	Zinc	31KE69	31KE69	25
3/8-24 Thread, 3/16" Drive				
3/8"	Plain	5WJR3	5WJR3	50
1/2"	Plain	5WJR4	5WJR4	50
7/16-14 Thread, 7/32" Drive				
3/8"	Plain	31KD36	31KD36	50
3/8"	Zinc	31KE70	31KE70	50
7/16"	Plain	31KD37	31KD37	50
7/16"	Zinc	31KE71	31KE71	50
1/2"	Plain	31KD38	31KD38	50
1/2"	Zinc	31KE72	31KE72	50
5/8"	Plain	31KD39	31KD39	50
5/8"	Zinc	31KE73	31KE73	50
3/4"	Plain	31KD40	31KD40	50
3/4"	Zinc	31KE74	31KE74	50
7/8"	Plain	31KD41	31KD41	50
7/8"	Zinc	31KE75	31KE75	50
1"	Plain	31KD42	31KD42	50
1"	Zinc	31KE76	31KE76	50
1 1/4"	Plain	31KD43	31KD43	25
1 1/4"	Zinc	31KE77	31KE77	25
1 1/2"	Plain	31KD44	31KD44	25
1 1/2"	Zinc	31KE78	31KE78	25
1 3/4"	Plain	31KD45	31KD45	25
1 3/4"	Zinc	31KE79	31KE79	25
2"	Plain	31KD46	31KD46	10
2"	Zinc	31KE80	31KE80	10
1/2-13 Thread, 1/4" Drive				
3/8"	Plain	5WJR6	5WJR6	50
3/8"	Zinc	31KE81	31KE81	50
1/2"	Plain	5WJR7	5WJR7	50
1/2"	Zinc	31KE82	31KE82	50
5/8"	Plain	5WJR9	5WJR9	50
5/8"	Zinc	31KE83	31KE83	50
3/4"	Zinc	31KE84	31KE84	25
3/4"	Plain	31KJ74	31KJ74	25
1"	Zinc	31KE85	31KE85	25
1"	Plain	31KJ75	31KJ75	25
1 1/4"	Plain	31KD47	31KD47	25
1 1/4"	Zinc	31KE86	31KE86	25
1 1/2"	Plain	31KD48	31KD48	25
1 1/2"	Zinc	31KE87	31KE87	25
1 3/4"	Plain	31KD49	31KD49	25
1 3/4"	Zinc	31KE88	31KE88	25
2"	Plain	31KD50	31KD50	10
2"	Zinc	31KE89	31KE89	10
2 1/2"	Plain	31KD51	31KD51	10
2 1/2"	Zinc	31KE90	31KE90	10
3"	Plain	31KD52	31KD52	10
3"	Zinc	31KE91	31KE91	10
4"	Plain	31KD53	31KD53	10
4"	Zinc	31KE92	31KE92	10
5/8-11 Thread, 5/16" Drive				
1/2"	Plain	31KD54	31KD54	10
1/2"	Zinc	31KE93	31KE93	10
5/8"	Zinc	31KE94	31KE94	10
5/8"	Plain	31KJ76	31KJ76	10
3/4"	Plain	31KD55	31KD55	10
3/4"	Zinc	31KE95	31KE95	10
7/8"	Plain	31KD56	31KD56	10
7/8"	Zinc	31KE96	31KE96	10
1"	Plain	31KD57	31KD57	10
1"	Zinc	31KE97	31KE97	10
1 1/4"	Plain	31KD58	31KD58	10
1 1/4"	Zinc	31KE98	31KE98	10
1 1/2"	Plain	31KD59	31KD59	10
1 1/2"	Zinc	31KE99	31KE99	10
1 3/4"	Plain	31KD60	31KD60	10
1 3/4"	Zinc	31KF01	31KF01	10
2"	Plain	31KD61	31KD61	10
2"	Zinc	31KF02	31KF02	10
2 1/2"	Plain	31KD62	31KD62	10
2 1/2"	Zinc	31KF03	31KF03	10
3 1/2"	Plain	31KD63	31KD63	5
3 1/2"	Zinc	31KF04	31KF04	5
4"	Plain	31KD64	31KD64	5
4"	Zinc	31KF05	31KF05	5
3/4-10 Thread, 3/8" Drive				
5/8"	Zinc	31KF06	31KF06	5
3/4"	Zinc	31KF07	31KF07	5
1"	Zinc	31KF08	31KF08	5
1 1/4"	Zinc	31KF09	31KF09	5
1 1/2"	Zinc	31KF10	31KF10	5
1 3/4"	Zinc	31KF11	31KF11	5
2"	Zinc	31KF12	31KF12	5
2 1/2"	Zinc	31KF13	31KF13	5
3"	Zinc	31KF14	31KF14	5



Alloy Steel Socket Set Screws

Note: Additional sizes are available; on Grainger.com® search for "set screws."

Overall Length	Cone Item No.	Cone Pkg. Qty.	Oval Item No.	Oval Pkg. Qty.	½ Dog Item No.	½ Dog Pkg. Qty.
Alloy Steel						
4-40 Thread, 1/20 in Drive						
1/8 in	30P143	100	—	—	—	—
3/16 in	—	—	30P142	100	—	—
5-40 Thread, 1/16 in Drive						
1/4 in	30P144	100	—	—	—	—
6-32 Thread, 1/16 in Drive						
1/4 in	—	—	25J764	100	—	—
1/4 in	30P147	100	—	—	—	—
1/8 in	30P145	100	—	—	—	—
3/8 in	—	—	25J766	100	—	—
3/16 in	30P146	100	—	—	—	—
5/16 in	—	—	25J765	100	—	—
8-32 Thread, 9/64 in Drive						
1/2 in	—	—	25J769	100	—	—
1/2 in	—	—	—	—	25J728	100
1/4 in	—	—	25J768	100	—	—
1/4 in	—	—	—	—	25J725	100
1/4 in	30P149	100	—	—	—	—
3/8 in	—	—	—	—	25J727	100
3/8 in	30P150	100	—	—	—	—
3/16 in	—	—	25J767	100	—	—
3/16 in	—	—	—	—	25J724	100
3/16 in	30P148	100	—	—	—	—
5/16 in	—	—	—	—	25J726	100
10-24 Thread, 3/32 in Drive						
1/2 in	—	—	25J773	100	—	—
1/2 in	—	—	—	—	25J733	100
1/2 in	25J796	100	—	—	—	—
1/4 in	—	—	25J771	100	—	—
1/4 in	—	—	—	—	25J730	100
1/4 in	25J793	100	—	—	—	—
3/8 in	—	—	25J772	100	—	—
3/8 in	—	—	—	—	25J732	100
3/8 in	25J795	100	—	—	—	—
3/16 in	—	—	25J770	100	—	—
3/16 in	—	—	—	—	25J729	100
5/16 in	—	—	—	—	25J731	100
5/16 in	25J794	100	—	—	—	—

Overall Length	Cone Item No.	Cone Pkg. Qty.	Oval Item No.	Oval Pkg. Qty.	½ Dog Item No.	½ Dog Pkg. Qty.
10-32 Thread, 3/32 in Drive						
1/4 in	—	—	25J775	100	—	—
1/4 in	—	—	—	—	25J735	100
1/4 in	30P152	100	—	—	—	—
3/16 in	—	—	25J774	100	—	—
3/16 in	—	—	—	—	25J734	100
3/16 in	30P151	100	—	—	—	—
1/4-20 Thread, 1/8 in Drive						
1 in	—	—	31KL26	100	—	—
1 in	—	—	—	—	25J742	100
1 in	31KK64	100	—	—	—	—
1/2 in	—	—	31KL23	100	—	—
1/2 in	—	—	—	—	25J739	100
1/2 in	5WJT3	50	—	—	—	—
1/4 in	—	—	31KL20	100	—	—
1/4 in	—	—	—	—	25J736	100
1/4 in	30P153	100	—	—	—	—
3/4 in	—	—	31KL25	100	—	—
3/4 in	—	—	—	—	25J741	100
3/4 in	5WJT5	50	—	—	—	—
3/8 in	—	—	31KL22	100	—	—
3/8 in	—	—	—	—	25J738	100
3/8 in	30P155	100	—	—	—	—
5/8 in	—	—	31KL24	100	—	—
5/8 in	—	—	—	—	25J740	100
5/8 in	31KK63	100	—	—	—	—
5/16 in	—	—	31KL21	100	—	—
5/16 in	—	—	—	—	25J737	100
5/16 in	30P154	100	—	—	—	—
1/4-28 Thread, 1/8 in Drive						
1/4 in	—	—	25J779	50	—	—
1/4 in	—	—	—	—	25J743	100
1/4 in	30P156	100	—	—	—	—
3/8 in	—	—	25J780	50	—	—
3/8 in	—	—	—	—	25J744	100
3/8 in	30P157	100	—	—	—	—
5/16-18 Thread, 5/32 in Drive						
1 in	—	—	31KL33	100	—	—
1 in	31KK67	100	—	—	—	—
1/2 in	—	—	31KL30	100	—	—
1/2 in	—	—	—	—	25J747	100
1/2 in	30P159	100	—	—	—	—
1/4 in	—	—	31KL27	100	—	—
3/4 in	—	—	31KL32	100	—	—
3/4 in	—	—	—	—	30P139	100
3/4 in	31KK66	100	—	—	—	—
3/8 in	—	—	31KL29	100	—	—
3/8 in	—	—	—	—	25J746	100
3/8 in	30P158	100	—	—	—	—
5/8 in	—	—	31KL31	100	—	—

Overall Length	Cone Item No.	Cone Pkg. Qty.	Oval Item No.	Oval Pkg. Qty.	½ Dog Item No.	½ Dog Pkg. Qty.
5/8 in	31KK65	100	—	—	—	—
5/16 in	—	—	31KL28	100	—	—
5/16 in	—	—	—	—	25J745	100
5/16 in	5WJT7	50	—	—	—	—
5/16-24 Thread, 5/32 in Drive						
3/8 in	5WJU2	50	—	—	—	—
5/16 in	5WJU1	50	—	—	—	—
3/8-16 Thread, 3/16 in Drive						
1 1/4 in	—	—	—	—	25J753	100
1 in	—	—	31KL38	100	—	—
1 in	—	—	—	—	25J752	100
1 in	31KK71	100	—	—	—	—
1/2 in	—	—	31KL35	100	—	—
1/2 in	—	—	—	—	25J749	100
1/2 in	31KK69	100	—	—	—	—
3/4 in	—	—	31KL37	100	—	—
3/4 in	—	—	—	—	25J751	100
3/4 in	31KK70	100	—	—	—	—
3/8 in	—	—	31KL34	100	—	—
3/8 in	—	—	—	—	25J748	100
3/8 in	31KK68	100	—	—	—	—
5/8 in	—	—	31KL36	100	—	—
5/8 in	—	—	—	—	25J750	100
3/8-24 Thread, 3/16 in Drive						
1/2 in	—	—	5MXV7	50	—	—
1/2 in	—	—	—	—	25J755	100
1/2 in	5WJU9	50	—	—	—	—
3/8 in	—	—	25J787	50	—	—
3/8 in	—	—	—	—	25J754	100
3/8 in	5WJU8	50	—	—	—	—
1/2-13 Thread, 1/4 in Drive						
1 1/4 in	—	—	—	—	25J760	25
1 in	—	—	25J791	25	—	—
1 in	—	—	—	—	25J759	25
1 in	31KJ73	25	—	—	—	—
1/2 in	—	—	31KL39	50	—	—
1/2 in	—	—	—	—	31KL06	50
1/2 in	5WJV0	50	—	—	—	—
3/4 in	—	—	25J790	25	—	—
3/4 in	—	—	—	—	25J758	25
3/4 in	5WJV1	25	—	—	—	—
5/8 in	—	—	31KL40	50	—	—
5/8 in	—	—	—	—	31KL07	50
1/2-20 Thread, 1/4 in Drive						
1/2 in	—	—	25J792	25	—	—
5/8-11 Thread, 5/16 in Drive						
1 1/4 in	—	—	—	—	31KJ78	10
1 in	—	—	—	—	31KJ77	10
5/8-18 Thread, 5/16 in Drive						
5/8 in	—	—	—	—	25J763	25

Rivet Information

RIVET TYPES

Open-End—Retains the mandrel head within the body of the rivet. A strong, cost-effective alternative to tubular rivets in industrial applications with materials that do not have high load-bearing requirements. Go to Grainger.com® and search for "open-end rivets."

Closed-End—Provides greater shear and tensile strength over open-end rivets of similar sizes and materials. Seals liquidtight, with 100% mandrel retention. Go to Grainger.com® and search for "closed-end rivets."

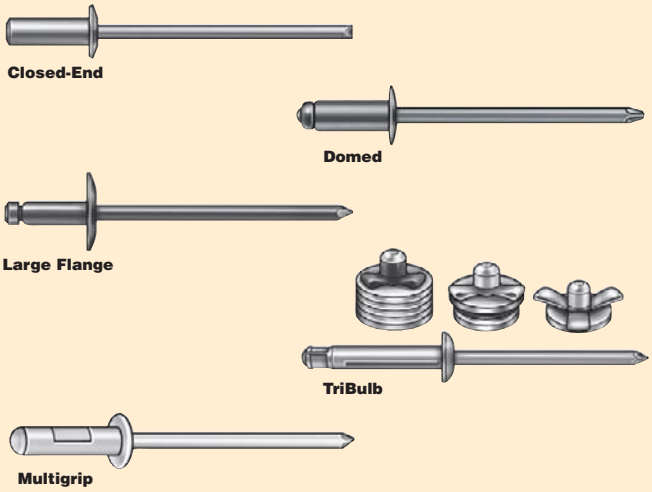
Blind—Designed for blind-side applications where only 1 side of the material is accessible. Will not mar or scratch painted or other finished materials. See pages 2131, 2132, 2133, 2134.

HEAD TYPES

Dome—Provides a low-profile finished assembly.

Large Flange—Provides greater bearing surface for fastening soft and brittle material. Also great to cover enlarged holes or slots.

TriBulb—Large blind-side footprint allows use in oversize holes. Use with both soft and brittle materials.



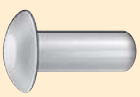
OTHER RIVET TYPES

See grainger.com/fasteners for our expanded rivet selection including the following.



Push-In

Usually made of nylon, push-in rivets expand to lock material into holes. Use on soft or hard materials.



Tubular/Semitubular

Rivets can be used to fasten soft and hard materials.

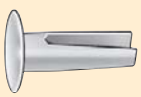
Tubular rivets have a hole in the headless end. Most commonly used in self-piercing applications where a predrilled hole is not required.

Semitubular rivets are similar to tubular rivets, but require much less insertion force.



Solid

1-pc. fasteners are permanently set using a hammer or rivet press, and expand in the hole to securely lock parts together.



Split

Used to fasten soft materials together. 2 legs pierce the material and then fold over to fasten.





Blind Rivets

FABORY POP® Avdel®

Blind rivets have 2 parts: the rivet and the mandrel. The rivet fastens to the materials, and the mandrel is used to set the rivet and then is discarded.

Note: Countersunk, button, and structural domed rivets are available on Grainger.com®; search for the head type, such as "countersunk rivets."

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
Steel								
Domed								
		0.020" to 0.125"	0.250"	Open	#41	Fabory	**32ML10**	500
3/32"	0.178" to 0.198"	0.126" to 0.250"	0.375"	Open	#41	Fabory	**32ML11**	500
		0.251" to 0.375"	0.500"	Open	#41	Fabory	**32ML12**	500
		0.020" to 0.062"	0.212"	Open	#30	Fabory	**32ML13**	500
		0.039" to 0.126"	0.323"	Open	#30	Fabory	**32MP03**	500
		0.039" to 0.189"	0.390"	Open	#30	Fabory	**32MP04**	500
		0.063" to 0.125"	0.275"	Open	#30	Fabory	**32ML14**	500
		0.063" to 0.252"	0.449"	Open	#30	Fabory	**32MP05**	500
1/8"	0.238" to 0.262"	0.126" to 0.187"	0.337"	Open	#30	Fabory	**32ML15**	500
		0.126" to 0.315"	0.512"	Open	#30	Fabory	**32MP06**	500
		0.188" to 0.250"	0.400"	Open	#30	Fabory	**32ML16**	500
		0.251" to 0.312"	0.462"	Open	#30	Fabory	**32ML17**	500
		0.313" to 0.375"	0.525"	Open	#30	Fabory	**32ML18**	500
		0.376" to 0.500"	0.650"	Open	#30	Fabory	**32ML19**	500
		0.501" to 0.625"	0.775"	Open	#30	Fabory	**32ML20**	500
		0.063" to 0.125"	0.300"	Open	#20	Fabory	**32ML21**	500
		0.063" to 0.189"	0.413"	Open	#20	Fabory	**32MP10**	500
		0.063" to 0.252"	0.472"	Open	#20	Fabory	**32MP11**	500
		0.126" to 0.187"	0.362"	Open	#20	Fabory	**32ML22**	500
		0.126" to 0.315"	0.535"	Open	#20	Fabory	**32MP12**	500
5/32"	0.296" to 0.328"	0.188" to 0.250"	0.425"	Open	#20	Fabory	**32ML23**	500
		0.313" to 0.375"	0.550"	Open	#20	Fabory	**32ML24**	500
		0.315" to 0.500"	0.724"	Open	#20	Fabory	**32MP15**	500
		0.376" to 0.500"	0.675"	Open	#20	Fabory	**32ML25**	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	**32ML26**	500
		0.626" to 0.750"	0.925"	Open	#20	Fabory	**32ML27**	500

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
		0.063" to 0.125"	0.325"	Open	#11	Fabory	**32ML28**	250
	0.356" to 0.394"	0.063" to 0.126"	0.374"	Open	#11	Fabory	**32MP16**	250
		0.063" to 0.189"	0.437"	Open	#11	Fabory	**32MP17**	250
	0.400"	0.063" to 0.250"	0.416"	Open	#10	Fabory	**32MR65**	250
		0.063" to 0.252"	0.500"	Open	#11	Fabory	**32MP18**	250
		0.126" to 0.187"	0.387"	Open	#11	Fabory	**32ML29**	250
	0.356" to 0.394"	0.126" to 0.315"	0.563"	Open	#11	Fabory	**32MP19**	250
		0.188" to 0.250"	0.450"	Open	#11	Fabory	**32ML30**	250
		0.189" to 0.378"	0.626"	Open	#11	Fabory	**32MP20**	250
3/16"	0.400"	0.214" to 0.437"	0.577"	Open	#10	Fabory	**32MR66**	250
		0.252" to 0.441"	0.689"	Open	#11	Fabory	**32MP21**	250
		0.313" to 0.375"	0.575"	Open	#11	Fabory	**32ML31**	250
		0.315" to 0.500"	0.760"	Open	#11	Fabory	**32MP22**	250
		0.376" to 0.500"	0.700"	Open	#11	Fabory	**32ML32**	250
	0.356" to 0.394"	0.378" to 0.563"	0.815"	Open	#11	Fabory	**32MP23**	250
		0.500" to 0.689"	0.937"	Open	#11	Fabory	**32MP24**	250
		0.501" to 0.625"	0.825"	Open	#11	Fabory	**32ML33**	250
		0.626" to 0.750"	0.950"	Open	#11	Fabory	**32ML34**	250
		0.751" to 0.875"	1.075"	Open	#11	Fabory	**32ML35**	250
		0.876" to 1.000"	1.200"	Open	#11	Fabory	**32ML36**	250
	0.530"	0.080" to 0.375"	0.556"	Open	G	Fabory	**32MR67**	100
	0.475" to 0.525"	0.188" to 0.250"	0.500"	Open	F	Fabory	**32ML37**	100
		0.313" to 0.375"	0.625"	Open	F	Fabory	**32ML38**	100
1/4"	0.530"	0.350" to 0.625"	0.806"	Open	G	Fabory	**32MR68**	100
	0.475" to 0.525"	0.376" to 0.500"	0.750"	Open	F	Fabory	**32ML39**	100
		0.501" to 0.625"	0.875"	Open	F	Fabory	**32ML40**	100
		0.626" to 0.750"	1.000"	Open	F	Fabory	**32ML41**	100
		0.751" to 0.875"	1.125"	Open	F	Fabory	**32ML42**	100

CONTINUED



CONTINUED

Blind Rivets

FABORY POP® Avdel®

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
Large Flange								
	0.238" to 0.262"	0.039" to 0.189"	0.390"	Open	#30	Fabory	**32MR55**	500
		0.063" to 0.125"	0.275"	Open	#30	Fabory	**32ML43**	500
		0.126" to 0.187"	0.337"	Open	#30	Fabory	**32ML44**	500
1/8"	0.360" to 0.390"	0.188" to 0.250"	0.400"	Open	#30	Fabory	**32ML45**	500
		0.313" to 0.375"	0.525"	Open	#30	Fabory	**32ML46**	500
		0.376" to 0.500"	0.650"	Open	#30	Fabory	**32ML47**	500
		0.126" to 0.187"	0.362"	Open	#20	Fabory	**32ML48**	500
		0.188" to 0.250"	0.425"	Open	#20	Fabory	**32ML49**	500
5/32"	0.448" to 0.488"	0.313" to 0.375"	0.550"	Open	#20	Fabory	**32ML50**	500
		0.376" to 0.500"	0.675"	Open	#20	Fabory	**32ML51**	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	**32ML52**	500
		0.063" to 0.252"	0.500"	Open	#11	Fabory	**32MR58**	250
		0.126" to 0.315"	0.563"	Open	#11	Fabory	**32MR59**	250
		0.188" to 0.250"	0.450"	Open	#11	Fabory	**32ML54**	250
		0.189" to 0.378"	0.626"	Open	#11	Fabory	**32MR60**	250
		0.252" to 0.441"	0.689"	Open	#11	Fabory	**32MR61**	250
3/16"	0.600" to 0.650"	0.313" to 0.375"	0.575"	Open	#11	Fabory	**32ML55**	250
		0.376" to 0.500"	0.700"	Open	#11	Fabory	**32ML56**	250
		0.501" to 0.625"	0.825"	Open	#11	Fabory	**32ML57**	250
		0.626" to 0.750"	0.950"	Open	#11	Fabory	**32ML58**	250
		0.751" to 0.875"	1.075"	Open	#11	Fabory	**32ML59**	250
		0.876" to 1.000"	1.200"	Open	#11	Fabory	**32ML60**	250
Stainless Steel								
Domed								
	0.228" to 0.264"	0.020" to 0.062"	0.297"	Closed	#30	Fabory	**32MN41**	500
	0.250"	0.032" to 0.062"	0.188"	Open	#30	Pop Avdel	**3ZKN7**	500
	0.238" to 0.262"	0.039" to 0.189"	0.390"	Open	#30	Fabory	**32MP26**	500
	0.250"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZKN8**	500
	0.238" to 0.262"	0.063" to 0.125"	0.275"	Open	#30	Fabory	**32ML79**	500
		0.063" to 0.125"	0.275"	Open	#30	Fabory	**32MM08**	500
	0.228" to 0.264"	0.063" to 0.125"	0.360"	Closed	#30	Fabory	**32MN42**	500
	0.250"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZKP1**	500
	0.238" to 0.262"	0.126" to 0.187"	0.337"	Open	#30	Fabory	**32ML80**	500
		0.126" to 0.187"	0.337"	Open	#30	Fabory	**32MM09**	500
	0.228" to 0.264"	0.126" to 0.187"	0.422"	Closed	#30	Fabory	**32MN43**	500
	0.250"	0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZKP3**	500
	0.238" to 0.262"	0.188" to 0.250"	0.400"	Open	#30	Fabory	**32ML81**	500
1/8"		0.188" to 0.250"	0.400"	Open	#30	Fabory	**32MM10**	500
	0.228" to 0.264"	0.188" to 0.250"	0.485"	Closed	#30	Fabory	**32MN44**	500
	0.250"	0.251" to 0.312"	0.438"	Open	#30	Pop Avdel	**3ZKP5**	500
	0.238" to 0.262"	0.251" to 0.312"	0.462"	Open	#30	Fabory	**32ML82**	500
		0.251" to 0.312"	0.462"	Open	#30	Fabory	**32MM11**	500
	0.228" to 0.264"	0.251" to 0.312"	0.547"	Closed	#30	Fabory	**32MN45**	500
	0.238" to 0.262"	0.313" to 0.375"	0.525"	Open	#30	Fabory	**32ML83**	500
		0.313" to 0.375"	0.525"	Open	#30	Fabory	**32MM12**	500
	0.228" to 0.264"	0.313" to 0.375"	0.610"	Closed	#30	Fabory	**32MN46**	500
	0.250"	0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	**3ZKP6**	500
		0.376" to 0.500"	0.625"	Open	#30	Pop Avdel	**3ZKP7**	500
	0.238" to 0.262"	0.376" to 0.500"	0.650"	Open	#30	Fabory	**32ML84**	500
		0.376" to 0.500"	0.650"	Open	#30	Fabory	**32MM13**	500
	0.228" to 0.264"	0.376" to 0.500"	0.735"	Closed	#30	Fabory	**32MN47**	500
	0.296" to 0.328"	0.047" to 0.126"	0.350"	Open	#20	Fabory	**32MP31**	500
	0.312"	0.063" to 0.125"	0.275"	Open	#20	Pop Avdel	**3ZKP8**	500
	0.296" to 0.328"	0.063" to 0.125"	0.300"	Open	#20	Fabory	**32ML86**	500
		0.063" to 0.125"	0.300"	Open	#20	Fabory	**32MM15**	500
	0.272" to 0.331"	0.063" to 0.125"	0.375"	Closed	#20	Fabory	**32MN48**	500
	0.296" to 0.328"	0.063" to 0.189"	0.413"	Open	#20	Fabory	**32MP32**	500
		0.063" to 0.252"	0.472"	Open	#20	Fabory	**32MP33**	500
	0.312"	0.126" to 0.187"	0.338"	Open	#21	Pop Avdel	**3ZKP9**	500
	0.296" to 0.328"	0.126" to 0.187"	0.362"	Open	#20	Fabory	**32ML87**	500
		0.126" to 0.187"	0.362"	Open	#20	Fabory	**32MM16**	500
	0.272" to 0.331"	0.126" to 0.187"	0.437"	Closed	#20	Fabory	**32MN49**	500
	0.296" to 0.328"	0.126" to 0.315"	0.535"	Open	#20	Fabory	**32MP34**	500
5/32"	0.312"	0.188" to 0.250"	0.400"	Open	#20	Pop Avdel	**3ZKR1**	500
	0.296" to 0.328"	0.188" to 0.250"	0.425"	Open	#20	Fabory	**32ML88**	500
		0.188" to 0.250"	0.425"	Open	#20	Fabory	**32MM17**	500
	0.272" to 0.331"	0.188" to 0.250"	0.500"	Closed	#20	Fabory	**32MN50**	500
		0.251" to 0.312"	0.562"	Closed	#20	Fabory	**32MN51**	500
	0.312"	0.251" to 0.375"	0.525"	Open	#20	Pop Avdel	**3ZKR2**	500
	0.296" to 0.328"	0.252" to 0.441"	0.661"	Open	#20	Fabory	**32MP36**	500
		0.313" to 0.375"	0.550"	Open	#20	Fabory	**32ML89**	500
		0.313" to 0.375"	0.550"	Open	#20	Fabory	**32MM18**	500
	0.272" to 0.331"	0.313" to 0.375"	0.625"	Closed	#20	Fabory	**32MN52**	500
	0.296" to 0.328"	0.376" to 0.500"	0.675"	Open	#20	Fabory	**32ML90**	500
		0.376" to 0.500"	0.675"	Open	#20	Fabory	**32MM19**	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	**32ML91**	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	**32MM20**	500
		0.375"	0.063" to 0.125"	0.300"	Open	#11	Pop Avdel	**3ZKR8**	250
	0.356" to 0.394"	0.063" to 0.125"	0.325"	Open	#11	Fabory	**32ML92**	250
		0.063" to 0.125"	0.325"	Open	#11	Fabory	**32MM21**	250
	0.327" to 0.398"	0.063" to 0.125"	0.406"	Closed	#11	Fabory	**32MN54**	250
	0.356" to 0.394"	0.063" to 0.126"	0.374"	Open	#11	Fabory	**32MP38**	250
		0.063" to 0.189"	0.437"	Open	#11	Fabory	**32MP39**	250
	0.400"	0.063" to 0.250"	0.416"	Open	#10	Fabory	**32MR69**	250
	0.356" to 0.394"	0.063" to 0.252"	0.500"	Open	#11	Fabory	**32MP40**	250
	0.375"	0.125" to 0.188"	0.422"	Closed	#11	Pop Avdel	**3ZKR9**	100
	0.356" to 0.394"	0.126" to 0.187"	0.387"	Open	#11	Fabory	**32ML93**	250
		0.126" to 0.187"	0.387"	Open	#11	Fabory	**32MM22**	250
	0.327" to 0.398"	0.126" to 0.187"	0.468"	Closed	#11	Fabory	**32MN55**	250
	0.375"	0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZKT1**	250
		0.126" to 0.315"	0.563"	Open	#11	Fabory	**32MP41**	250
	0.356" to 0.394"	0.188" to 0.250"	0.450"	Open	#11	Fabory	**32ML94**	250
		0.188" to 0.250"	0.450"	Open	#11	Fabory	**32MM23**	250
	0.327" to 0.398"	0.188" to 0.250"	0.531"	Closed	#11	Fabory	**32MN56**	250
	0.400"	0.214" to 0.437"	0.577"	Open	#10	Fabory	**32MR70**	250
	0.375"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	**3ZKT3**	250
3/16"		0.252" to 0.441"	0.689"	Open	#11	Fabory	**32MP43**	250
	0.356" to 0.394"	0.313" to 0.375"	0.575"	Open	#11	Fabory	**32ML95**	250
		0.313" to 0.375"	0.575"	Open	#11	Fabory	**32MM24**	250
	0.327" to 0.398"	0.313" to 0.375"	0.656"	Closed	#11	Fabory	**32MN57**	250
	0.356" to 0.394"	0.315" to 0.500"	0.760"	Open	#11	Fabory	**32MP44**	250
	0.375"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	**3ZKT5**	250
	0.356" to 0.394"	0.376" to 0.500"	0.700"	Open	#11	Fabory	**32ML96**	250
		0.376" to 0.500"	0.700"	Open	#11	Fabory	**32MM25**	250
	0.327" to 0.398"	0.376" to 0.500"	0.781"	Closed	#11	Fabory	**32MN58**	250
	0.356" to 0.394"	0.378" to 0.563"	0.815"	Open	#11	Fabory	**32MP45**	250
		0.500" to 0.689"	0.937"	Open	#11	Fabory	**32MP46**	250
	0.375"	0.501" to 0.625"	0.800"	Open	#10	Pop Avdel	**3ZKR3**	100
	0.356" to 0.394"	0.501" to 0.625"	0.825"	Open	#11	Fabory	**32ML97**	250
		0.501" to 0.625"	0.825"	Open	#11	Fabory	**32MM26**	250
	0.327" to 0.398"	0.501" to 0.625"	0.906"	Closed	#11	Fabory	**32MN59**	250
	0.356" to 0.394"	0.626" to 0.750"	0.950"	Open	#11	Fabory	**32ML98**	250
		0.626" to 0.750"	0.950"	Open	#11	Fabory	**32MM27**	250
	0.327" to 0.398"	0.626" to 0.750"	1.026"	Closed	#11	Fabory	**32MN60**	250
	0.375"	0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	**3ZKR6**	100
	0.356" to 0.394"	0.876" to 1.000"	1.200"	Open	#11	Fabory	**32MM29**	250
	0.530"	0.080" to 0.375"	0.556"	Open	G	Fabory	**32MR71**	100
	0.475" to 0.525"	0.188" to 0.250"	0.500"	Open	F	Fabory	**32MM30**	100
		0.188" to 0.250"	0.500"	Open	F	Fabory	**32MM02**	100
		0.313" to 0.375"	0.625"	Open	F	Fabory	**32MM31**	100
		0.313" to 0.375"	0.625"	Open	F	Fabory	**32MM03**	100
1/4"	0.530"	0.350" to 0.625"	0.806"	Open	G	Fabory	**32MR72**	100
	0.475" to 0.525"	0.376" to 0.500"	0.750"	Open	F	Fabory	**32MM32**	100
		0.376" to 0.500"	0.750"	Open	F	Fabory	**32MM04**	100
		0.501" to 0.625"	0.875"	Open	F	Fabory	**32MM33**	100
		0.501" to 0.625"	0.875"	Open	F	Fabory	**32MM05**	100
		0.626" to 0.750"	1.000"	Open	F	Fabory	**32MM34**	100
		0.626" to 0.750"	1.000"	Open	F	Fabory	**32MM06**	100
Large Flange								
	0.375"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZKN9**	500
	0.360" to 0.390"	0.063" to 0.125"	0.275"	Open	#30	Fabory	**32MM36**	500
1/8"	0.375"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZKP2**	500
	0.360" to 0.390"	0.126" to 0.187"	0.337"	Open	#30	Fabory	**32MM37**	500
	0.375"	0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZKP4**	500
	0.360" to 0.390"	0.188" to 0.250"	0.400"	Open	#30	Fabory	**32MM38**	500
5/32"	0.448" to 0.488"	0.313" to 0.375"	0.550"	Open	#20	Fabory	**32MM43**	500
	0.625"	0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZKT2**	100
	0.600" to 0.650"	0.188" to 0.250"	0.450"	Open	#11	Fabory	**32MM47**	250
	0.625"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	**3ZKT4**	100
	0.600" to 0.650"	0.313" to 0.375"	0.575"	Open	#11	Fabory	**32MM48**	250
3/16"	0.625"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	**3ZKT6**	100
	0.600" to 0.650"	0.376" to 0.500"	0.700"	Open	#11	Fabory	**32MM49**	250
	0.625"	0.501" to 0.625"	0.800"	Open	#10	Pop Avdel	**3ZKR4**	100
	0.600" to 0.650"	0.501" to 0.625"	0.825"	Open	#11	Fabory	**32MM50**	250
	0.625"	0.626" to 0.750"	0.925"	Open	#10	Pop Avdel	**3ZKR5**	100
	0.600" to 0.650"	0.626" to 0.750"	0.950"	Open	#11	Fabory	**32MM51**	250
Plastic								
Domed								
6.0mm	0.512"	0.157" to 0.335"		Open	1/4"	Pop Avdel	**3ZJN6**	25
6.3mm	0.661"	0.315" to 0.472"		Open	1/4"	Pop Avdel	**3ZJP2**	25
C1006-C1010 Steel								
3/32"	0.188"	0.032" to 0.125"	0.225"	Open	#41	Pop Avdel	**3ZKG6**	500
		0.126" to 0.250"	0.350"	Open	#41	Pop Avdel	**3ZKG7**	500
	0.250"	0.032" to 0.062"	0.188"	Open	#30	Pop Avdel	**3ZKG8**	500
		0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZKH1**	500
		0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZKG9**	500
1/8"		0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZKH3**	500
		0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZKH5**	500
		0.251" to 0.312"	0.438"	Open	#30	Pop Avdel	**3ZKH7**	500
		0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	**3ZKH8**	500
		0.376" to 0.500"	0.625"	Open	#30	Pop Avdel	**3ZKJ1**	500
	0.312"	0.063" to 0.125"	0.275"	Open	#20	Pop Avdel	**3ZKJ2**	500
		0.126" to 0.187"	0.338"	Open	#20	Pop Avdel	**3ZKJ3**	500
5/32"		0.188" to 0.250"	0.400"	Open	#20	Pop Avdel	**3ZKJ4**	500
		0.251" to 0.375"	0.525"	Open	#20	Pop Avdel	**3ZKJ5**	500
		0.376" to 0.500"	0.650"	Open	#20	Pop Avdel	**3ZKJ6**	500

CONTINUED

CONTINUED

Blind Rivets

FABORY POP® Avdel®

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
3/16"	0.375"	0.063" to 0.125"	0.300"	Open	#11	Pop Avdel	3ZKK6	250
		0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	3ZKK9	250
		0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	3ZKL2	250
		0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	3ZKL4	250
		0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	3ZKJ7	250
		0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	3ZKJ9	250
		0.751" to 0.875"	1.050"	Open	#11	Pop Avdel	3ZKK2	250
		0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	3ZKK3	250
1/4"	0.500"	0.063" to 0.250"	0.475"	Open	F	Pop Avdel	3ZKN1	100
		0.376" to 0.500"	0.725"	Open	F	Pop Avdel	3ZKN3	100
		0.501" to 0.625"	0.850"	Open	F	Pop Avdel	3ZKL6	100
		0.626" to 0.750"	0.975"	Open	F	Pop Avdel	3ZKL7	100
		0.876" to 1.000"	1.225"	Open	F	Pop Avdel	3ZKL8	100
Large Flange								
1/8"	0.375"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	3ZKH2	500
		0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	3ZKH4	500
		0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	3ZKH6	500
	0.250"	0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	3ZKH9	500
3/16"	0.625"	0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	3ZKL1	250
		0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	3ZKL3	250
		0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	3ZKL5	250
		0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	3ZKJ8	250
		0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	3ZKK1	250
Aluminum								
1/8"	0.360" to 0.390"	0.039" to 0.189"	0.323"	Open	#30	Fabory	32MR12	500
		0.063" to 0.252"	0.390"	Open	#30	Fabory	32MR13	500
		0.126" to 0.315"	0.449"	Open	#30	Fabory	32MR14	500
		0.189" to 0.378"	0.512"	Open	#30	Fabory	32MR15	500
		0.315" to 0.500"	0.638"	Open	#30	Fabory	32MR17	500
5/32"	0.448" to 0.488"	0.063" to 0.252"	0.413"	Open	#20	Fabory	32MR19	500
		0.126" to 0.315"	0.472"	Open	#20	Fabory	32MR20	500
		0.189" to 0.378"	0.535"	Open	#20	Fabory	32MR21	500
		0.252" to 0.441"	0.598"	Open	#20	Fabory	32MR22	500
		0.315" to 0.500"	0.661"	Open	#20	Fabory	32MR23	500
3/16"	0.356" to 0.394"	0.063" to 0.252"	0.437"	Open	#11	Fabory	32MR47	250
	0.600" to 0.650"	0.063" to 0.252"	0.437"	Open	#11	Fabory	32MR26	250
		0.126" to 0.378"	0.563"	Open	#11	Fabory	32MR27	250
		0.189" to 0.441"	0.626"	Open	#11	Fabory	32MR28	250
	0.356" to 0.394"	0.315" to 0.500"	0.689"	Open	#11	Fabory	32MR50	250
	0.600" to 0.650"	0.315" to 0.500"	0.689"	Open	#11	Fabory	32MR29	250
		0.378" to 0.563"	0.760"	Open	#11	Fabory	32MR30	250
	0.356" to 0.394"	0.441" to 0.752"	0.937"	Open	#11	Fabory	32MR52	250
	0.600" to 0.650"	0.441" to 0.752"	0.937"	Open	#11	Fabory	32MR31	250
		0.500" to 0.882"	1.063"	Open	#11	Fabory	32MR32	250
5056 Aluminum Domed								
3/32"	0.178" to 0.198"	0.020" to 0.125"	0.250"	Open	#41	Fabory	32MK56	500
	0.188"	0.032" to 0.125"	0.225"	Open	#41	Pop Avdel	3ZJP9	500
		0.126" to 0.250"	0.350"	Open	#41	Pop Avdel	3ZJR2	500
	0.178" to 0.198"	0.126" to 0.250"	0.375"	Open	#41	Fabory	32MK57	500
		0.251" to 0.375"	0.500"	Open	#41	Fabory	32MK58	500
1/8"	0.238" to 0.262"	0.020" to 0.062"	0.212"	Open	#30	Fabory	32MK59	500
	0.224" to 0.252"	0.020" to 0.062"	0.297"	Closed	#30	Fabory	32MM92	500
	0.250"	0.032" to 0.062"	0.188"	Open	#30	Pop Avdel	3ZJR8	500
	0.236"	0.032" to 0.062"	0.237"	Closed	#30	Pop Avdel	3ZJR9	500
		0.063" to 0.125"	0.301"	Closed	#30	Pop Avdel	3ZJT6	500
	0.250"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	3ZJT4	500
	0.238" to 0.262"	0.063" to 0.125"	0.275"	Open	#30	Fabory	32MK60	500
	0.224" to 0.252"	0.063" to 0.125"	0.360"	Closed	#30	Fabory	32MM93	500
	0.250"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	3ZJU3	500
	0.236"	0.126" to 0.187"	0.362"	Closed	#30	Pop Avdel	3ZJU5	500
	0.238" to 0.262"	0.126" to 0.187"	0.337"	Open	#30	Fabory	32MK61	500
	0.224" to 0.252"	0.126" to 0.187"	0.422"	Closed	#30	Fabory	32MM94	500
	0.236"	0.188" to 0.250"	0.425"	Closed	#30	Pop Avdel	3ZJV2	500
	0.250"	0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	3ZJU9	500
	0.238" to 0.262"	0.188" to 0.250"	0.400"	Open	#30	Fabory	32MK62	500
	0.224" to 0.252"	0.188" to 0.250"	0.485"	Closed	#30	Fabory	32MM95	500
	0.236"	0.251" to 0.312"	0.487"	Closed	#30	Pop Avdel	3ZJV5	500
	0.238" to 0.262"	0.251" to 0.312"	0.462"	Open	#30	Fabory	32MK63	500
	0.224" to 0.252"	0.251" to 0.312"	0.547"	Closed	#30	Fabory	32MM96	500
	0.238" to 0.262"	0.313" to 0.375"	0.525"	Open	#30	Fabory	32MK64	500
	0.224" to 0.252"	0.313" to 0.375"	0.610"	Closed	#30	Fabory	32MM97	500
	0.250"	0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	3ZJV8	500
	0.236"	0.313 to 0.375"	0.550"	Closed	#30	Pop Avdel	3ZJW1	500
	0.250"	0.376" to 0.500"	0.625"	Open	#30	Pop Avdel	3ZJW3	500
	0.238" to 0.262"	0.376" to 0.500"	0.650"	Open	#30	Fabory	32MK65	500
	0.224" to 0.252"	0.376" to 0.500"	0.735"	Closed	#30	Fabory	32MM98	500
	0.250"	0.501" to 0.625"	0.750"	Open	#30	Pop Avdel	3ZJR4	500
	0.238" to 0.262"	0.501" to 0.625"	0.775"	Open	#30	Fabory	32MK66	500
		0.626" to 0.750"	0.900"	Open	#30	Fabory	32MK67	500
5/32"	0.312"	0.063" to 0.125"	0.275"	Open	#20	Pop Avdel	3ZJW6	500
		0.063" to 0.125"	0.315"	Closed	#20	Pop Avdel	3ZJW7	500
	0.296" to 0.328"	0.063" to 0.125"	0.300"	Open	#20	Fabory	32MK68	500
		0.063" to 0.125"	0.375"	Closed	#20	Fabory	32MM99	500
	0.312"	0.126" to 0.187"	0.338"	Open	#20	Pop Avdel	3ZJW9	500
	0.296" to 0.328"	0.126" to 0.187"	0.362"	Open	#20	Fabory	32MK69	500
		0.126" to 0.187"	0.437"	Closed	#20	Fabory	32MN01	500
	0.312"	0.188" to 0.250"	0.400"	Open	#20	Pop Avdel	3ZJX4	500
	0.296" to 0.328"	0.188" to 0.250"	0.425"	Open	#20	Fabory	32MK70	500
		0.188" to 0.250"	0.500"	Closed	#20	Fabory	32MN02	500
	0.312"	0.251" to 0.312"	0.502"	Closed	#20	Pop Avdel	3ZJX5	500
	0.296" to 0.328"	0.251" to 0.312"	0.562"	Closed	#20	Fabory	32MN03	500
	0.312"	0.251" to 0.375"	0.525"	Open	#20	Pop Avdel	3ZJX7	500
	0.296" to 0.328"	0.313" to 0.375"	0.550"	Open	#20	Fabory	32MK71	500
	0.312"	0.376" to 0.500"	0.650"	Open	#20	Pop Avdel	3ZJX9	500
	0.296" to 0.328"	0.376" to 0.500"	0.675"	Open	#20	Fabory	32MK72	500
		0.376" to 0.500"	0.750"	Closed	#20	Fabory	32MN05	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	32MK73	500
		0.626" to 0.750"	0.925"	Open	#20	Fabory	32MK74	500
3/16"	0.375"	0.063" to 0.125"	0.300"	Open	#11	Pop Avdel	3ZKA1	250
	0.357"	0.063" to 0.125"	0.330"	Closed	#11	Pop Avdel	3ZKA3	250
	0.356" to 0.394"	0.063" to 0.125"	0.325"	Open	#11	Fabory	32MK75	250
		0.063" to 0.125"	0.406"	Closed	#11	Fabory	32MN06	250
		0.126" to 0.187"	0.387"	Open	#11	Fabory	32MK76	250
		0.126" to 0.187"	0.468"	Closed	#11	Fabory	32MN07	250
	0.357"	0.188" to 0.250"	0.455"	Closed	#11	Pop Avdel	3ZKA9	250
	0.356" to 0.394"	0.188" to 0.250"	0.450"	Open	#11	Fabory	32MK77	250
		0.188" to 0.250"	0.531"	Closed	#11	Fabory	32MN08	250
	0.375"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	3ZKC5	250
	0.356" to 0.394"	0.313" to 0.375"	0.575"	Open	#11	Fabory	32MK78	250
		0.313" to 0.375"	0.656"	Closed	#11	Fabory	32MN09	250
	0.357"	0.313 to 0.375"	0.580"	Closed	#11	Pop Avdel	3ZKC7	250
	0.375"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	3ZKD2	250
	0.357"	0.376" to 0.500"	0.705"	Closed	#11	Pop Avdel	3ZKD4	250
	0.356" to 0.394"	0.376" to 0.500"	0.700"	Open	#11	Fabory	32MK79	250
		0.376" to 0.500"	0.781"	Closed	#11	Fabory	32MN10	250
		0.501" to 0.625"	0.825"	Open	#11	Fabory	32MK80	250
	0.375"	0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	3ZJY7	250
	0.356" to 0.394"	0.626" to 0.750"	0.950"	Open	#11	Fabory	32MK81	250
		0.751" to 0.875"	1.075"	Open	#11	Fabory	32MK82	250
	0.375"	0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	3ZJZ3	250
	0.356" to 0.394"	0.876" to 1.000"	1.200"	Open	#11	Fabory	32MK83	250
1/4"	0.500"	0.063" to 0.250"	0.475"	Open	F	Pop Avdel	3ZKE2	100
	0.475" to 0.525"	0.126" to 0.250"	0.570"	Closed	F	Fabory	32MN14	100
	0.500"	0.126" to 0.250"	0.485"	Closed	F	Pop Avdel	3ZKE3	100
	0.475" to 0.525"	0.188" to 0.250"	0.500"	Open	F	Fabory	32MK84	100
		0.251" to 0.375"	0.695"	Closed	F	Fabory	32MN15	100
	0.500"	0.251" to 0.375"	0.600"	Open	F	Pop Avdel	3ZKE5	100
		0.251" to 0.375"	0.610"	Closed	F	Pop Avdel	3ZKE6	100
	0.475" to 0.525"	0.313" to 0.375"	0.625"	Open	F	Fabory	32MK85	100
		0.376" to 0.500"	0.750"	Open	F	Fabory	32MK86	100
	0.500"	0.376" to 0.500"	0.725"	Open	F	Pop Avdel	3ZKE8	100
		0.501" to 0.625"	0.850"	Open	F	Pop Avdel	3ZKD6	100
	0.475" to 0.525"	0.501" to 0.625"	0.875"	Open	F	Fabory	32MK87	100
		0.626" to 0.750"	1.000"	Open	F	Fabory	32MK88	100
	0.500"	0.626" to 0.750"	0.975"	Open	F	Pop Avdel	3ZKD8	100
	0.475" to 0.525"	0.751" to 0.875"	1.125"	Open	F	Fabory	32MK89	100
Large Flange								
1/8"	0.375"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	3ZJT2	500
		0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	3ZJT5	500
	0.360" to 0.390"	0.063" to 0.125"	0.275"	Open	#30	Fabory	32MK90	500
	0.375"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	3ZJU4	500
	0.360" to 0.390"	0.126" to 0.187"	0.337"	Open	#30	Fabory	32MK91	500
	0.375"	0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	3ZJV1	500
	0.360" to 0.390"	0.188" to 0.250"	0.400"	Open	#30	Fabory	32MK92	500
		0.313" to 0.375"	0.525"	Open	#30	Fabory	32MK93	500
		0.376" to 0.500"	0.650"	Open	#30	Fabory	32MK94	500
5/32"	0.448" to 0.488"	0.188" to 0.250"	0.425"	Open	#20	Fabory	32MK97	500
		0.376" to 0.500"	0.675"	Open	#20	Fabory	32MK99	500
3/16"	0.600" to 0.650"	0.126" to 0.187"	0.387"	Open	#11	Fabory	32ML02	250
		0.188" to 0.250"	0.450"	Open	#11	Fabory	32ML03	250
	0.625"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	3ZKC6	250
	0.600" to 0.650"	0.313" to 0.375"	0.575"	Open	#11	Fabory	32ML04	250
	0.625"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	3ZKD3	250
	0.600" to 0.650"	0.376" to 0.500"	0.700"	Open	#11	Fabory	32ML05	250
	0.625"	0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	3ZJY4	250
	0.600" to 0.650"	0.501" to 0.625"	0.825"	Open	#11	Fabory	32ML06	250
	0.625"	0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	3ZJY8	250
	0.600" to 0.650"	0.626" to 0.750"	0.950"	Open	#11	Fabory	32ML07	250
		0.751" to 0.875"	1.075"	Open	#11	Fabory	32ML08	250
	0.625"	0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	3ZJZ4	250
	0.600" to 0.650"	0.876" to 1.000"	1.200"	Open	#11	Fabory	32ML09	250

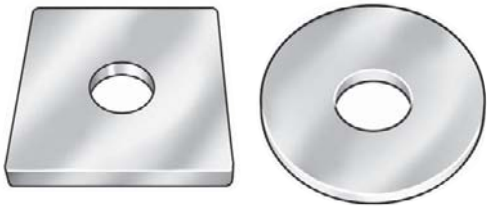
CONTINUED

CONTINUED

Blind Rivets

FABORY POP® Avdel®

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
5052 Aluminum								
Domed								
3/32"	0.178" to 0.198"	0.020" to 0.125"	0.250"	Open	#41	Fabory	**32MJ64**	500
	0.188"	0.032" to 0.125"	0.225"	Open	#41	Pop Avdel	**3ZJP8**	500
		0.126" to 0.250"	0.350"	Open	#41	Pop Avdel	**3ZJR1**	500
	0.178" to 0.198"	0.126" to 0.250"	0.375"	Open	#41	Fabory	**32MJ65**	500
		0.251" to 0.375"	0.500"	Open	#41	Fabory	**32MJ66**	500
1/8"	0.238" to 0.262"	0.020" to 0.062"	0.212"	Open	#30	Fabory	**32MJ67**	500
	0.250"	0.032" to 0.062"	0.188"	Open	#30	Pop Avdel	**3ZJR7**	500
		0.039" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZJR5**	500
	0.238" to 0.262"	0.039" to 0.189"	0.323"	Open	#30	Fabory	**32MN81**	500
		0.039" to 0.189"	0.323"	Open	#30	Fabory	**32MN61**	500
	0.250"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZJT1**	500
	0.238" to 0.262"	0.063" to 0.125"	0.275"	Open	#30	Fabory	**32MJ68**	500
		0.063" to 0.252"	0.390"	Open	#30	Fabory	**32MN82**	500
		0.063" to 0.252"	0.390"	Open	#30	Fabory	**32MN62**	500
	0.250"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZJT9**	500
	0.238" to 0.262"	0.126" to 0.187"	0.337"	Open	#30	Fabory	**32MJ69**	500
		0.126" to 0.315"	0.449"	Open	#30	Fabory	**32MN83**	500
		0.126" to 0.315"	0.449"	Open	#30	Fabory	**32MN63**	500
	0.250"	0.157" to 0.312"	0.453"	Open	#30	Pop Avdel	**3ZJT7**	500
		0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZJU6**	500
	0.238" to 0.262"	0.188" to 0.250"	0.400"	Open	#30	Fabory	**32MJ70**	500
		0.189" to 0.378"	0.512"	Open	#30	Fabory	**32MN64**	500
	0.250"	0.251" to 0.312"	0.438"	Open	#30	Pop Avdel	**3ZJV3**	500
	0.238" to 0.262"	0.251" to 0.312"	0.462"	Open	#30	Fabory	**32MJ71**	500
		0.252" to 0.441"	0.575"	Open	#30	Fabory	**32MN65**	500
	0.250"	0.313" to 0.375"	0.500"	Open	#30	Pop Avdel	**3ZJV6**	500
	0.238" to 0.262"	0.313" to 0.375"	0.525"	Open	#30	Fabory	**32MJ72**	500
		0.315" to 0.500"	0.638"	Open	#30	Fabory	**32MN66**	500
	0.250"	0.376" to 0.500"	0.625"	Open	#30	Pop Avdel	**3ZJW2**	500
	0.238" to 0.262"	0.376" to 0.500"	0.650"	Open	#30	Fabory	**32MJ73**	500
	0.250"	0.501" to 0.625"	0.750"	Open	#31	Pop Avdel	**3ZJR3**	500
	0.238" to 0.262"	0.501" to 0.625"	0.775"	Open	#30	Fabory	**32MJ74**	500
		0.626" to 0.750"	0.900"	Open	#30	Fabory	**32MJ75**	500
5/32"	0.296" to 0.328"	0.047" to 0.189"	0.350"	Open	#20	Fabory	**32MN67**	500
	0.312"	0.047" to 0.250"	0.400"	Open	#20	Pop Avdel	**3ZJW4**	500
		0.063" to 0.125"	0.275"	Open	#20	Pop Avdel	**3ZJW5**	500
	0.296" to 0.328"	0.063" to 0.125"	0.300"	Open	#20	Fabory	**32MJ76**	500
		0.063" to 0.252"	0.413"	Open	#20	Fabory	**32MN68**	500
	0.312"	0.126" to 0.187"	0.338"	Open	#20	Pop Avdel	**3ZJW8**	500
	0.296" to 0.328"	0.126" to 0.187"	0.362"	Open	#20	Fabory	**32MJ77**	500
		0.126" to 0.315"	0.472"	Open	#20	Fabory	**32MN69**	500
	0.312"	0.188" to 0.250"	0.400"	Open	#20	Pop Avdel	**3ZJX2**	500
	0.296" to 0.328"	0.188" to 0.250"	0.425"	Open	#20	Fabory	**32MJ78**	500
		0.189" to 0.378"	0.535"	Open	#20	Fabory	**32MN70**	500
	0.312"	0.251" to 0.375"	0.525"	Open	#20	Pop Avdel	**3ZJX6**	500
	0.296" to 0.328"	0.252" to 0.441"	0.598"	Open	#20	Fabory	**32MN71**	500
		0.313" to 0.375"	0.550"	Open	#20	Fabory	**32MJ79**	500
		0.315" to 0.500"	0.661"	Open	#20	Fabory	**32MN72**	500
		0.315" to 0.500"	0.661"	Open	#20	Fabory	**32MN92**	500
	0.312"	0.376" to 0.500"	0.650"	Open	#21	Pop Avdel	**3ZJX8**	500
	0.296" to 0.328"	0.376" to 0.500"	0.675"	Open	#20	Fabory	**32MJ80**	500
		0.378" to 0.563"	0.724"	Open	#20	Fabory	**32MN73**	500
		0.441" to 0.630"	0.787"	Open	#20	Fabory	**32MN74**	500
		0.501" to 0.625"	0.800"	Open	#20	Fabory	**32MJ81**	500
		0.626" to 0.750"	0.925"	Open	#20	Fabory	**32MJ82**	500
3/16"	0.375"	0.063" to 0.125"	0.425"	Open	#11	Pop Avdel	**3ZKA4**	250
		0.063" to 0.125"	0.300"	Open	#11	Pop Avdel	**3ZJZ8**	250
	0.356" to 0.394"	0.063" to 0.125"	0.325"	Open	#11	Fabory	**32MJ83**	250
	0.375"	0.063" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZJZ5**	250
	0.356" to 0.394"	0.063" to 0.252"	0.437"	Open	#11	Fabory	**32MN75**	250
		0.063" to 0.252"	0.437"	Open	#11	Fabory	**32MN95**	250
		0.126" to 0.187"	0.387"	Open	#11	Fabory	**32MJ84**	250
	0.375"	0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZKA6**	500
	0.356" to 0.394"	0.126" to 0.378"	0.563"	Open	#11	Fabory	**32MN76**	250
		0.188" to 0.250"	0.450"	Open	#11	Fabory	**32MJ85**	250
		0.189" to 0.441"	0.626"	Open	#11	Fabory	**32MN77**	250
		0.189" to 0.441"	0.626"	Open	#11	Fabory	**32MN97**	250
	0.375"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	**3ZKC2**	250
	0.356" to 0.394"	0.313" to 0.375"	0.575"	Open	#11	Fabory	**32MJ86**	250
		0.315" to 0.500"	0.689"	Open	#11	Fabory	**32MN78**	250
		0.315" to 0.500"	0.689"	Open	#11	Fabory	**32MN98**	250
		0.376" to 0.500"	0.700"	Open	#11	Fabory	**32MJ87**	250
	0.375"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	**3ZKC8**	250
	0.356" to 0.394"	0.378" to 0.563"	0.760"	Open	#11	Fabory	**32MN79**	250
		0.441" to 0.752"	0.937"	Open	#11	Fabory	**32MN80**	250
		0.441" to 0.752"	0.937"	Open	#11	Fabory	**32MP01**	250
		0.500" to 0.882"	1.063"	Open	#11	Fabory	**32MK36**	250
	0.375"	0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	**3ZJY1**	250
		0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	**3ZJY3**	250
	0.356" to 0.394"	0.501" to 0.625"	0.825"	Open	#11	Fabory	**32MJ88**	250
	0.375"	0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	**3ZJY5**	250
	0.356" to 0.394"	0.626" to 0.750"	0.950"	Open	#11	Fabory	**32MJ89**	250
		0.630" to 1.000"	1.189"	Open	#11	Fabory	**32MK37**	250
	0.375"	0.751" to 0.875"	1.050"	Open	#11	Pop Avdel	**3ZJY9**	250
	0.356" to 0.394"	0.751" to 0.875"	1.075"	Open	#11	Fabory	**32MJ90**	250
	0.375"	0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	**3ZJZ1**	250
	0.356" to 0.394"	0.876" to 1.000"	1.200"	Open	#11	Fabory	**32MJ91**	250
1/4"	0.500"	0.063" to 0.250"	0.475"	Open	F	Pop Avdel	**3ZKE1**	100
	0.475" to 0.525"	0.188" to 0.250"	0.500"	Open	F	Fabory	**32MJ92**	100
	0.500"	0.251" to 0.375"	0.600"	Open	F	Pop Avdel	**3ZKE4**	100
	0.475" to 0.525"	0.313" to 0.375"	0.625"	Open	F	Fabory	**32MJ93**	100
		0.376" to 0.500"	0.750"	Open	F	Fabory	**32MJ94**	100
	0.500"	0.376" to 0.500"	0.725"	Open	F	Pop Avdel	**3ZKE7**	100
		0.501" to 0.625"	0.850"	Open	F	Pop Avdel	**3ZKD5**	100
	0.475" to 0.525"	0.501" to 0.625"	0.875"	Open	F	Fabory	**32MJ95**	100
	0.500"	0.626" to 0.750"	0.975"	Open	F	Pop Avdel	**3ZKD7**	100
	0.475" to 0.525"	0.626" to 0.750"	1.000"	Open	F	Fabory	**32MJ96**	100
		0.751" to 0.875"	1.125"	Open	F	Fabory	**32MJ97**	100
Large Flange								
1/8"	0.360" to 0.390"	0.063" to 0.125"	0.275"	Open	#30	Fabory	**32MJ98**	500
	0.375"	0.100" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZJR6**	500
	0.250"	0.126" to 0.187"	0.313"	Open	#30	Pop Avdel	**3ZJU1**	500
	0.360" to 0.390"	0.126" to 0.187"	0.337"	Open	#30	Fabory	**32MJ99**	500
	0.375"	0.157" to 0.312"	0.453"	Open	#30	Pop Avdel	**3ZJT8**	500
		0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZJU7**	500
	0.360" to 0.390"	0.188" to 0.250"	0.400"	Open	#30	Fabory	**32MK01**	500
		0.313" to 0.375"	0.525"	Open	#30	Fabory	**32MK02**	500
	0.250"	0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	**3ZJV7**	500
		0.313 to 0.375"	0.500"	Open	#30	Pop Avdel	**3ZJV9**	500
	0.360" to 0.390"	0.376" to 0.500"	0.650"	Open	#30	Fabory	**32MK03**	500
5/32"	0.448" to 0.488"	0.188" to 0.250"	0.425"	Open	#20	Fabory	**32MK06**	500
		0.313" to 0.375"	0.550"	Open	#20	Fabory	**32MK07**	500
		0.376" to 0.500"	0.675"	Open	#20	Fabory	**32MK08**	500
3/16"	0.375"	0.063" to 0.125"	0.300"	Open	#11	Pop Avdel	**3ZKA2**	250
	0.625"	0.063" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZJZ6**	250
		0.126" to 0.250"	0.425"	Open	#11	Pop Avdel	**3ZKA7**	250
	0.600" to 0.650"	0.188" to 0.250"	0.450"	Open	#11	Fabory	**32MK11**	250
	0.625"	0.251" to 0.375"	0.550"	Open	#11	Pop Avdel	**3ZKC3**	250
		0.251" to 0.500"	0.716"	Open	#11	Pop Avdel	**3ZKC1**	250
	0.600" to 0.650"	0.313" to 0.375"	0.575"	Open	#11	Fabory	**32MK12**	250
		0.376" to 0.500"	0.700"	Open	#11	Fabory	**32MK13**	250
	0.625"	0.376" to 0.500"	0.675"	Open	#11	Pop Avdel	**3ZKC9**	250
		0.501" to 0.625"	0.800"	Open	#11	Pop Avdel	**3ZJY2**	250
	0.600" to 0.650"	0.501" to 0.625"	0.825"	Open	#11	Fabory	**32MK14**	250
	0.625"	0.626" to 0.750"	0.925"	Open	#11	Pop Avdel	**3ZJY6**	250
	0.600" to 0.650"	0.626" to 0.750"	0.950"	Open	#11	Fabory	**32MK15**	250
		0.751" to 0.875"	1.075"	Open	#11	Fabory	**32MK16**	250
	0.375"	0.876" to 1.000"	1.175"	Open	#11	Pop Avdel	**3ZJZ2**	250
	0.600" to 0.650"	0.876" to 1.000"	1.200"	Open	#11	Fabory	**32MK17**	250
110 Copper								
Domed								
1/8"	0.220"	0.063" to 0.125"	0.250"	Open	#30	Pop Avdel	**3ZKG2**	500
		0.188" to 0.250"	0.375"	Open	#30	Pop Avdel	**3ZKG3**	500
1100 Aluminum								
1/8"	0.224" to 0.252"	0.020" to 0.062"	0.297"	Closed	#30	Fabory	**32MM72**	500
	0.236"	0.063" to 0.125"	0.302"	Closed	#30	Pop Avdel	**3ZJT3**	500
	0.224" to 0.252"	0.063" to 0.125"	0.360"	Closed	#30	Fabory	**32MM73**	500
	0.236"	0.126" to 0.187"	0.362"	Closed	#30	Pop Avdel	**3ZJU2**	500
	0.224" to 0.252"	0.126" to 0.187"	0.422"	Closed	#30	Fabory	**32MM74**	500
	0.236"	0.188" to 0.250"	0.425"	Closed	#30	Pop Avdel	**3ZJU8**	500
	0.224" to 0.252"	0.188" to 0.250"	0.485"	Closed	#30	Fabory	**32MM75**	500
		0.251" to 0.312"	0.547"	Closed	#30	Fabory	**32MM76**	500
		0.313" to 0.375"	0.610"	Closed	#30	Fabory	**32MM77**	500
5/32"	0.296" to 0.328"	0.126" to 0.187"	0.437"	Closed	#20	Fabory	**32MM80**	500
		0.188" to 0.250"	0.500"	Closed	#20	Fabory	**32MM81**	500
	0.312"	0.188 to 0.250"	0.440"	Closed	#20	Pop Avdel	**3ZJX3**	500
	0.296" to 0.328"	0.251" to 0.312"	0.562"	Closed	#20	Fabory	**32MM82**	500
		0.313" to 0.375"	0.625"	Closed	#20	Fabory	**32MM83**	500
3/16"	0.357"	0.063" to 0.125"	0.330"	Closed	#11	Pop Avdel	**3ZJZ9**	250
	0.356" to 0.394"	0.063" to 0.125"	0.406"	Closed	#11	Fabory	**32MM85**	250
		0.126" to 0.187"	0.468"	Closed	#11	Fabory	**32MM86**	250
	0.357"	0.126" to 0.250"	0.455"	Closed	#11	Pop Avdel	**3ZKA8**	250
	0.356" to 0.394"	0.188" to 0.250"	0.531"	Closed	#11	Fabory	**32MM87**	250
		0.313" to 0.375"	0.656"	Closed	#11	Fabory	**32MM88**	250
	0.357"	0.313 to 0.375"	0.580"	Closed	#11	Pop Avdel	**3ZKC4**	250
		0.376" to 0.500"	0.705"	Closed	#11	Pop Avdel	**3ZKD1**	250
	0.356" to 0.394"	0.376" to 0.500"	0.781"	Closed	#11	Fabory	**32MM89**	250



POP® Avdel® FABORY

Blind Rivet Backup Washers

Provide extra support when fastening soft materials, and compensate for oversize holes where access to both sides of the work is possible.

Inside Dia.	Outside Dia.	Brand	Item No.	Pkg. Qty.
Round				
Steel				
1/8"	3/8"	Pop Avdel	**3ZKG4**	500
	3/8"	Fabory	**5NNT6**	500
3/16"	3/8"	Pop Avdel	**3ZKG5**	500
	1/2"	Fabory	**5NNT7**	500
1/4"	1/2"	Fabory	**5NNT8**	100
Aluminum				
1/8"	3/8"	Pop Avdel	**3ZJP6**	500
	3/8"	Fabory	**5NNT9**	500
5/32"	7/16"	Fabory	**5NNU0**	500
3/16"	1/2"	Fabory	**5NNU1**	500
	3/8"	Pop Avdel	**3ZJP7**	500
1/4"	1/2"	Fabory	**5NNU2**	100
Square				
Steel				
3/32"	1/2"	Fabory	**5NNT3**	500
1/8"	1/2"	Fabory	**5NNT4**	500
3/16"	1/2"	Fabory	**5NNT5**	500



No. 6NCX3



No. 26W548

Battery-Powered Rivet Tool

Lightweight, ergonomic tool sets rivets of all materials where compressed air is not available, indoors or out. No need for an air hose. 14.4V lithium-ion battery charges in less than 1 hr. with included charger. Attached collector bottle keeps spent mandrels until ready for disposal.

Application	Item No.
Battery Powered 0	
Sets 3/32, 1/8, 5/32, 3/16 rivets	**26W548**
Accessories	
Clamping Jaws, Forged Steel	**26W555**
Nosepiece, Steel, 3/32"	**26W551**
Nosepiece, Steel, 1/8"	**26W552**
Nosepiece, Steel, 5/32"	**26W553**
Nosepiece, Steel, 3/16"	**26W554**
Battery, 1.5A/hr.	**26W549**
Battery, 3.0Ah	**26W550**
Battery Charger, 240VAC	**26W556**



No. 6NCW9

HUCK®

Pneumatic Rivet Guns

Blind Rivet Dia.	Stroke (in.)	Tool Weight (lb.)	Pulling Force (lb.)	Mfr. Model No	Item No.
1/4"	.625	1.75	3500	AK-175A	**6NCX3**
	.675	5.75	5290	2025	**6NCX2**
	.75	5.1	3889	202	**6NCW9**
	.85	6	3993	2024	**6NCX1**
3/8"	.875	12.3	9986	256	**6NCX0**


Flanged


Flush


Hex


Knurled Flanged

Rivet Nuts

Once installed, nuts provide permanent, captive threads that won't loosen when vibrated, or rotate when attached to the mating material. Large-flanged head allows increased push-out strength and extends above the material to provide built-in spacer.

Nut Type	Grip Range	Flange Dia.	Body Dia.	Drill Size	Material	Item No.	Pkg. Qty.
6-32 Thread Size							
Flanged	0.010" to 0.075"	0.325"	0.189"	#12	Steel Zinc	**5NNK3**	100
	0.010" to 0.075"	0.325"	0.189"	#12	Aluminum Plain	**5NNK4**	100
Flush	0.020" to 0.080"	0.295"	0.249"	¼"	Steel Zinc	**5NNH9**	50
	0.020" to 0.080"	0.295"	0.249"	¼"	Aluminum Plain	**5NNH8**	100
Hex	0.020" to 0.080"	0.375"	0.249"	¼"	Steel Zinc Yellow	**32FY36**	100
	0.080" to 0.130"	0.375"	0.249"	¼"	Steel Zinc Yellow	**32FY37**	50
Knurled Flanged	0.020" to 0.080"	0.392"	0.264"	17/64"	Steel Zinc	**5NNL1**	100
	0.020" to 0.080"	0.392"	0.264"	17/64"	Aluminum Plain	**5NNL7**	100
	0.080" to 0.130"	0.392"	0.264"	17/64"	Aluminum Plain	**5NNR3**	50
	0.080" to 0.130"	0.392"	0.264"	17/64"	Steel Zinc	**5NNP6**	50
	0.020" to 0.080"	0.310"	0.265"	H	Steel Zinc Yellow	**32FY50**	100
	0.080" to 0.130"	0.310"	0.265"	H	Steel Zinc Yellow	**32FY51**	50
Swaged	0.030" to 1.00"	0.240"	0.2185"	7/32" to #1	Steel Clear Cadmium	**32FY64**	100
8-32 Thread Size							
Flanged	0.010" to 0.075"	0.357"	0.221"	#2	Steel Zinc	**5NNK5**	100
	0.010" to 0.075"	0.357"	0.221"	#2	Aluminum Plain	**5NNK6**	100
	0.075" to 0.120"	0.357"	0.221"	#2	Aluminum Plain	**5NNH1**	50
	0.075" to 0.120"	0.357"	0.221"	#2	Steel Zinc	**5NNG7**	50
Floating Thread	0.020" to 0.100"	0.555"	0.431"	7/16"	Steel Clear Trivalent	**32FX20**	5
	0.027" to 0.130"	0.500"	0.390"	25/64"	Steel Clear Trivalent	**32FX25**	10
Flush	0.020" to 0.080"	0.295"	0.249"	¼"	Aluminum Plain	**5NNK7**	100
	0.019" to 0.079"	0.287"	0.249"	¼"	Steel Zinc	**5NNJ0**	50
Hex	0.020" to 0.080"	0.375"	0.249"	¼"	Steel Zinc Yellow	**32FY38**	100
	0.080" to 0.130"	0.375"	0.249"	¼"	Steel Zinc Yellow	**32FY39**	50
Knurled Flanged	0.020" to 0.080"	0.392"	0.264"	17/64"	Steel Zinc	**5NNL2**	100
	0.020" to 0.080"	0.392"	0.264"	17/64"	Aluminum Plain	**5NNL8**	100
	0.080" to 0.130"	0.392"	0.264"	17/64"	Steel Zinc	**5NNP7**	50
	0.080" to 0.130"	0.392"	0.264"	17/64"	Aluminum Plain	**5NNR4**	50
	0.020" to 0.080"	0.310"	0.265"	H	Steel Zinc Yellow	**32FY52**	100
	0.080" to 0.130"	0.310"	0.265"	H	Steel Zinc Yellow	**32FY53**	50
Swaged	0.030" to 1.00"	0.269"	0.2495"	¼" to 17/64"	Steel Clear Cadmium	**32FY65**	100
10-24 Thread Size							
Flanged	0.079" to 0.130"	0.406"	0.250"	¼"	Steel Zinc	**5NNG8**	50
	0.010" to 0.080"	0.406"	0.250"	¼"	Steel Zinc	**5NNF5**	100
	0.010" to 0.080"	0.406"	0.250"	¼"	Aluminum Plain	**5NNJ2**	100
	0.080" to 0.130"	0.406"	0.250"	¼"	Aluminum Plain	**5NNJ3**	50
Floating Thread	0.020" to 0.100"	0.555"	0.431"	7/16"	Steel Clear Trivalent	**32FX21**	5
Flush	0.020" to 0.130"	0.320"	0.280"	9/32"	Steel Zinc	**5NNH5**	50
	0.020" to 0.130"	0.320"	0.280"	9/32"	Aluminum Plain	**5NNH4**	100
Hex	0.010" to 0.085"	0.359"	0.223"	#2	Steel Clear Trivalent	**32FX10**	25
	0.085" to 0.135"	0.359"	0.223"	#2	Steel Clear Trivalent	**32FX11**	25
	0.020" to 0.130"	0.390"	0.280"	9/32"	Steel Zinc Yellow	**32FY40**	100
	0.130" to 0.225"	0.390"	0.280"	9/32"	Steel Zinc Yellow	**32FY41**	50
Knurled Flanged	0.079" to 0.130"	0.413"	0.295"	19/64"	Steel Zinc	**5NNL3**	100
	0.020" to 0.130"	0.417"	0.295"	19/64"	Aluminum Plain	**5NNL9**	100
	0.130" to 0.225"	0.417"	0.295"	19/64"	Steel Zinc	**5NNP8**	50
	0.130" to 0.225"	0.417"	0.295"	19/64"	Aluminum Plain	**5NNR5**	50
	0.020" to 0.130"	0.340"	0.296"	19/64"	Steel Zinc Yellow	**32FY54**	100
	0.130" to 0.225"	0.340"	0.296"	19/64"	Steel Zinc Yellow	**32FY55**	50
Swaged	0.030" to 1.00"	0.306"	0.2805"	9/32" to 19/64"	Steel Clear Cadmium	**32FY66**	100
10-32 Thread Size							
Flanged	0.079" to 0.130"	0.406"	0.250"	¼"	Steel Zinc	**5NNG9**	50
	0.010" to 0.080"	0.406"	0.250"	¼"	Steel Zinc	**5NNJ4**	100
	0.080" to 0.130"	0.406"	0.250"	¼"	Aluminum Plain	**5NNH2**	50
	0.010" to 0.080"	0.406"	0.250"	¼"	Aluminum Plain	**5NNF6**	100
Floating Thread	0.020" to 0.100"	0.555"	0.431"	7/16"	Steel Clear Trivalent	**32FX22**	5
	0.027" to 0.150"	0.500"	0.390"	25/64"	Steel Clear Trivalent	**32FX26**	25
Flush	0.020" to 0.130"	0.320"	0.280"	9/32"	Steel Zinc	**5NNH7**	50
	0.020" to 0.130"	0.320"	0.280"	9/32"	Aluminum Plain	**5NNH6**	100
Hex	0.010" to 0.085"	0.359"	0.223"	#2	Steel Clear Trivalent	**32FX12**	25
	0.085" to 0.135"	0.359"	0.223"	#2	Steel Clear Trivalent	**32FX13**	25
	0.020" to 0.130"	0.390"	0.280"	9/32"	Steel Zinc Yellow	**32FY42**	100
	0.130" to 0.225"	0.390"	0.280"	9/32"	Steel Zinc Yellow	**32FY43**	50
Knurled Flanged	0.130" to 0.225"	0.417"	0.295"	19/64"	Aluminum Plain	**5NNR6**	50
	0.020" to 0.130"	0.413"	0.295"	19/64"	Steel Zinc	**5NNL4**	100
	0.130" to 0.225"	0.417"	0.295"	19/64"	Steel Zinc	**5NNP9**	50
	0.020" to 0.130"	0.417"	0.295"	19/64"	Aluminum Plain	**5NNN0**	100
	0.020" to 0.130"	0.340"	0.296"	19/64"	Steel Zinc Yellow	**32FY56**	100
	0.130" to 0.225"	0.340"	0.296"	19/64"	Steel Zinc Yellow	**32FY57**	50
Slotted Body	0.020" to 0.175"	0.510"	0.329"	Q	Steel Zinc Yellow	**32FX31**	10
	0.175" to 0.320"	0.510"	0.329"	Q	Steel Zinc Yellow	**32FX32**	10
Swaged	0.030" to 1.00"	0.306"	0.2805"	9/32" to 19/64"	Steel Clear Cadmium	**32FY67**	100
¼-20 Thread Size							
Flanged	0.140" to 0.200"	0.475"	0.332"	Q	Steel Zinc	**5NNG4**	40
	0.079" to 0.138"	0.475"	0.332"	Q	Aluminum Plain	**5NNG5**	40
	0.020" to 0.080"	0.475"	0.332"	Q	Steel Zinc	**5NNH0**	50
	0.079" to 0.138"	0.475"	0.332"	Q	Steel Zinc	**5NNG3**	40
	0.020" to 0.080"	0.475"	0.332"	Q	Aluminum Plain	**5NNH3**	50
	0.140" to 0.200"	0.475"	0.332"	Q	Aluminum Plain	**5NNG6**	40
	0.165" to 0.260"	0.500"	0.390"	25/64"	Aluminum Plain	**5NNP5**	40
Floating Thread	0.027" to 0.150"	0.685"	0.530"	17/32"	Steel Clear Trivalent	**32FX27**	10
Flush	0.030" to 0.165"	0.415"	0.374"	3/8"	Steel Zinc	**5NNJ1**	40
	0.030" to 0.165"	0.415"	0.374"	3/8"	Aluminum Plain	**5NNL0**	50
Hex	0.020" to 0.085"	0.452"	0.296"	19/64"	Steel Clear Trivalent	**32FX14**	25
	0.085" to 0.145"	0.452"	0.296"	19/64"	Steel Clear Trivalent	**32FX15**	10
	0.027" to 0.165"	0.510"	0.374"	3/8"	Steel Zinc Yellow	**32FY44**	50
	0.165" to 0.260"	0.510"	0.374"	3/8"	Steel Zinc Yellow	**32FY45**	40
Knurled Flanged	0.165" to 0.260"	0.492"	0.390"	25/64"	Steel Zinc	**5NNP3**	40
	0.027" to 0.165"	0.500"	0.390"	25/64"	Steel Zinc	**5NNR9**	50
	0.027" to 0.165"	0.500"	0.390"	25/64"	Aluminum Plain	**5NNR7**	50
	0.027" to 0.165"	0.455"	0.390"	25/64"	Steel Zinc Yellow	**32FY58**	50
	0.165" to 0.260"	0.455"	0.390"	19/64"	Steel Zinc Yellow	**32FY59**	40
Slotted Body	0.020" to 0.280"	0.645"	0.382"	25/64"	Steel Zinc Yellow	**32FX33**	10
	0.280" to 0.50"	0.645"	0.382"	25/64"	Steel Zinc Yellow	**32FX34**	25
Swaged	0.030" to 1.00"	0.400"	0.3745"	3/8" to 25/64"	Steel Clear Cadmium	**32FY68**	50
5/16-18 Thread Size							
Flanged	0.118" to 0.197"	0.665"	0.413"	Z	Steel Zinc	**5NNK0**	25
	0.030" to 0.125"	0.665"	0.413"	Z	Steel Zinc	**5NNF8**	25
	0.030" to 0.125"	0.665"	0.413"	Z	Aluminum Plain	**5NNG0**	25
Flush	0.030" to 0.165"	0.560"	0.499"	½"	Steel Zinc	**5NNK1**	25
	0.030" to 0.165"	0.560"	0.499"	½"	Aluminum Plain	**5NNJ9**	25
Hex	0.030" to 0.105"	0.577"	0.368"	U	Steel Clear Trivalent	**32FX16**	10
	0.105" to 0.175"	0.577"	0.368"	U	Steel Clear Trivalent	**32FX17**	10
	0.175" to 0.245"	0.577"	0.368"	U	Steel Clear Trivalent	**32FX18**	10
	0.027" to 0.150"	0.655"	0.499"	½"	Steel Zinc Yellow	**32FY46**	25
	0.150" to 0.312"	0.655"	0.499"	½"	Steel Zinc Yellow	**32FY47**	25
Knurled Flanged	0.027" to 0.150"	0.685"	0.530"	17/32"	Aluminum Plain	**5NNP0**	25
	0.150" to 0.312"	0.685"	0.530"	17/32"	Aluminum Plain	**5NNP1**	25
	0.027" to 0.150"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN4**	25
	0.150" to 0.312"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN5**	25
	0.027" to 0.150"	0.595"	0.530"	17/32"	Steel Zinc Yellow	**32FY60**	25
	0.150" to 0.312"	0.595"	0.530"	17/32"	Steel Zinc Yellow	**32FY61**	25
Slotted Body	0.020" to 0.280"	0.770"	0.495"	½"	Steel Zinc Yellow	**32FX37**	5
Swaged	0.030" to 1.00"	0.528"	0.4995"	½" to 33/64"	Steel Clear Cadmium	**32FY69**	25
⅜-16 Thread Size							
Flanged	0.115" to 0.200"	0.781"	0.490"	½"	Steel Zinc	**5NNF7**	20
	0.030" to 0.115"	0.781"	0.490"	½"	Steel Zinc	**5NNF9**	25
	0.030" to 0.115"	0.781"	0.490"	½"	Aluminum Plain	**5NNG2**	25
	0.115" to 0.200"	0.781"	0.490"	½"	Aluminum Plain	**5NNJ6**	20
Flush	0.030" to 0.165"	0.560"	0.499"	½"	Steel Zinc	**5NNK8**	20
	0.030" to 0.165"	0.560"	0.499"	½"	Aluminum Plain	**5NNJ5**	25
Hex	0.104" to 0.239"	0.671"	0.437"	7/16"	Steel Clear Trivalent	**32FX19**	10
	0.027" to 0.150"	0.655"	0.499"	½"	Steel Zinc Yellow	**32FY48**	25
	0.150" to 0.312"	0.655"	0.499"	½"	Steel Zinc Yellow	**32FY49**	20
Knurled Flanged	0.027" to 0.150"	0.685"	0.530"	17/32"	Aluminum Plain	**5NNP2**	25
	0.150" to 0.312"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN1**	20
	0.150" to 0.312"	0.685"	0.530"	17/32"	Aluminum —	**5NNN3**	20
	0.027" to 0.150"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN6**	25
	0.027" to 0.150"	0.595"	0.530"	17/32"	Steel Zinc Yellow	**32FY62**	25
	0.150" to 0.312"	0.595"	0.530"	17/32"	Steel Zinc Yellow	**32FY63**	20
Swaged	0.030" to 1.00"	0.588"	0.5615"	9/16" to 37/64"	Steel Clear Cadmium	**32FY70**	25
M4x0.70 Thread Size							
Floating Thread	0.50" to 2.50"	14.10mm	10.950"	7/16"	Steel Clear Trivalent	**32FX23**	5
	0.70" to 3.30"	12.70mm	9.910"	X	Steel Clear Trivalent	**32FX28**	10
Flush	0.019" to 0.079"	0.287"	0.249"	¼"	Steel Zinc	**5NNJ7**	50
Knurled Flanged	0.019" to 0.079"	0.390"	0.260"	17/64"	Steel Zinc	**5NNL5**	100
	0.080" to 0.130"	0.392"	0.264"	17/64"	Steel Zinc	**5NNR0**	50
M5x0.80 Thread Size							
Floating Thread	0.50" to 2.50"	14.10mm	10.950"	7/16"	Steel Clear Trivalent	**32FX24**	5
	0.70" to 3.30"	12.70mm	9.910"	X	Steel Clear Trivalent	**32FX29**	10
Flush	0.020" to 0.130"	0.315"	0.280"	9/32"	Steel Zinc	**5NNJ8**	50
Knurled Flanged	0.019" to 0.130"	0.413"	0.290"	19/64"	Steel Zinc	**5NNL6**	100
	0.130" to 0.225"	0.417"	0.295"	19/64"	Steel Zinc	**5NNR1**	50
M6x1.0 Thread Size							
Floating Thread	0.70" to 3.80"	17.40mm	13.460"	17/32"	Steel Clear Trivalent	**32FX30**	10
Flush	0.030" to 0.165"	0.413"	0.374"	3/8"	Steel Zinc	**5NNK2**	40
Knurled Flanged	0.027" to 0.165"	0.500"	0.390"	25/64"	Steel Zinc	**5NNR2**	50
	0.027" to 0.165"	0.500"	0.390"	25/64"	Aluminum Plain	**5NNR8**	50
	0.165" to 0.260"	0.500"	0.390"	25/64"	Steel Zinc	**5NNP4**	40
Slotted Body	0.50" to 7.10"	16.38mm	9.70 mm	X	Steel Zinc Yellow	**32FX35**	10
M8x1.25 Thread Size							
Flush	0.040" to 0.200"	0.560"	0.499"	½"	Steel Zinc	**5NNK9**	25
Knurled	0.027" to 0.150"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN7**	25
Flanged	0.150" to 0.312"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN8**	25
Slotted Body	0.50" to 7.10"	19.65mm	12.57mm	½"	Steel Zinc Yellow	**32FX36**	5
M10x1.50 Thread Size							
Knurled	0.150" to 0.312"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN2**	20
Flanged	0.027" to 0.150"	0.685"	0.530"	17/32"	Steel Zinc	**5NNN9**	25


Flex-5

SSG Pistol Style Series

DLHT Heavy Duty Tool

Rivet Nut Tools—Pneumatic and Manual

Note: Additional head sets are available at Grainger.com®.

Description	Item No.
Hydro-Pneumatic Flex-5 Tools	
FLEX-5P	**32FX38**
FLEX-5S	**32FX39**
Rivet Nut Pneumatic Spin Tool	
SSG-801 Pistol Style Series	**32FX73**
SSG-802 Pistol Style Series	**32FX74**
SSG-803 Pistol Style Series	**32FX75**
SSG-808 Pistol Style Series	**32FX76**

Description	Item No.
Rivet Nut Hand Tools	
DLHT-I Heavy Duty Inch Tool	**32FX97**
DLHT-M Heavy Duty Metric Tool	**32FX98**
DRHT-I Ratchet Style Inch Tool	**32FX99**
DRHT-M Ratchet Style Metric Tool	**32FX95**
Hand Tool 6-32 Size	**32FY21**
Hand Tool 8-32 Size	**32FY22**
Hand Tool 10-32 Size	**32FY32**
Hand Tool ¼-20 Size	**32FY33**
Hand Tool M3 Size	**32FY27**

Description	Item No.
Hand Tool M4 Size	**32FY28**
Hand Tool M5 Size	**32FY29**
Hand Tool M5 Size	**32FY34**
Hand Tool M6 Size	**32FY35**
Hand Tool M10 Size	**32FY26**
Hand Tool 10-32 Size	**32FY20**
Hand Tool ¼-20 Size	**32FY23**
Hand Tool 5/16-18 Size	**32FY24**
Hand Tool ⅜-16 Size	**32FY25**
Hand Tool M6 Size	**32FY30**
Hand Tool M8 Size	**32FY31**

Threaded Inserts Information

Helical Wire Thread Insert
Converts threads, repairs stripped threads, or creates long-lasting threads in multiple materials



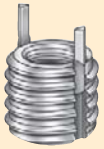
Knife Thread Insert
Provides sturdy machine threads in hardwood



Hex Drive Thread Insert
Provides sturdy machine threads in soft woods



Key Locking Thread Insert
Use to convert or repair threads with a positive mechanical lock that prevents spinning



Self-Locking Thread Insert
A locking adhesive on the external threads locks the insert in to place



Press Insert
Provides sturdy machine threads in plastic materials



Type	Material	No. of Pieces	Includes	Brand	Item No.
Thread Repair Kit					
Heavy Wall	18-8 Stainless Steel	33	(10) Each: M8x1.25, M10x1.5, (8) Each: M12x1.75, (5) Each: M16x2.0, Molded Plastic Case	E-Z Lok	**4ZE92**
		46	(10) Each: 10-24, ¼-20, 5/16-18, 3/8-16, (6) Each: ½-13, Molded Plastic Case	E-Z Lok	**4ZE84**
		46	(10) Each: 10-32, ¼-28, 5/16-24, 3/8-24, (6) Each: ½-20, Molded Plastic Case	E-Z Lok	**4ZE87**
		50	(10) Each: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, Molded Plastic Case	E-Z Lok	**4ZE90**
		—	(10) Each: (3/8-16)M6x1, (½-13)M8x1.25, (9/16-12)M10x1.5, (6) Each: (¾-10) M12x1.75, Molded Plastic Case	E-Z Lok	**4ZE95**
Free Running	304 Stainless Steel	54	12 Each ¼-20x0.375, 5/16-18x0.469, 3/8-16x0.562, 6 Each 7/16-14x0.656, ½-13x0.750, 5/8-11x0.938, and 6 Each of High Speed Steel Taps, Drills and installation tools.	Heli-Coil	**4CZD5**
		60	(12) Each: 10-32x0.285", ¼-28x0.375", 5/16-24x0.469", 3/8-24x0.562", (6) Each: 7/16-20x0.656", ½-20x0.750", High Speed Steel Taps, Drills Installation Tools	Heli-Coil	**4CZD6**
Heavy Wall	Carbon Steel	22	(7) Each: 5/8-11, ¾-10, (6) Each: ½-13, (2) Each: 1-8, Molded Plastic Case	E-Z Lok	**4ZE85**
		22	(7) Each: 5/8-18, ¾-16, (6) Each: ½-20, (2) Each: 1-14, Molded Plastic Case	E-Z Lok	**4ZE88**
		33	(10) Each: M8x1.25, M10x1.5, (8) Each: M12x1.75, (5) Each: M16x2.0, Molded Plastic Case	E-Z Lok	**4ZE91**
		46	(10) Each: 10-24, ¼-20, 5/16-18, 3/8-16, (6) Each: ½-13, Molded Plastic Case	E-Z Lok	**4ZE83**
		46	(10) Each: 10-32, ¼-28, 5/16-24, 3/8-24, (6) Each: ½-20, Molded Plastic Case	E-Z Lok	**4ZE86**
		46	(10) (#10-24)M10-1.5, (10) (¼-20)M12-1.75, (10) (5/16-18)M12-1.75, (10) (3/8-16)M16-2.0, (6) (½-13)M16-2.0, Molded Plastic Case	E-Z Lok	**4ZE93**
		50	(10) Each: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, Molded Plastic Case	E-Z Lok	**4ZE89**
		—	(10) Each: (3/8-16)M6x1, (½-13)M8x1.25, (9/16-12)M10x1.5, (6) Each: (¾-10) M12x1.75, Molded Plastic Case	E-Z Lok	**4ZE94**
Self Locking Thread Insert Installation Kit					
Thin Wall	Carbon Steel	23	(20) Each: 10-24 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXX8**
		23	(20) Each: ¼-20 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY1**
		23	(20) Each: 5/16-18 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY3**
		23	(20) Each: 3/8-16 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY5**
		23	(20) Each: 7/16-14 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY7**
		23	(20) Each: ½-13 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY9**
		23	(20) Each: 10-32 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXX9**
		23	(20) Each: ¼-28 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY2**
		23	(20) Each: 5/16-24 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY4**
		23	(20) Each: 3/8-24 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY6**
		23	(20) Each: 7/16-20 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXY8**
		23	(20) Each: ½-20 Inserts, (1): Each Drill, Tap, And Installation Tool	GA	**4AXZ1**

E-Z LOK
HeliCoil®
GA GRAINGER APPROVED

Thread Repair Assortment Kits



No. 4ZE83

Type	Material	No. of Pieces	Includes	Brand	Item No.
Helical Total Range Kit UNC and UNF					
Standard	Stainless Steel	4	Inserts (12)ea UNF,UNC ¼ (10)ea UNC,UNF 5/16,3/8 (6)ea UNC,UNF 7/16,1/2 (4)ea UNC,UNF 5/8,3/4,7/8, Four Drawer Metal Cabinet	GA	**30PH37**
Lockable		4		GA	**30PH38**
Helical Total Range Kit All Metric					
Standard	Stainless Steel	4	Inserts (12)ea M5,M6 (10)ea M8x1,M8x1.25, M10x1.25,M10x1.5(6)M11x1, M12x1.5, M12x1.75 (5)ea M14x2,M14x1.5,M16x2,M16x1.5,M18 x2.5,M18x1.5, Four Drawer Metal Cabinet	GA	**30PH39**
Lockable		4	Inserts (12)ea M5,M6 (10)ea M8x1,M8x1.25, M10x1.25,M10x1.5(6)M11x1, M12x1.5, M12x1.75 (5)ea M14x2,M14x1.5,M16x2,M16x1.5,M18 x2.5,M18x1.5, Four Drawer Metal Cabinet	GA	**30PH40**
Helical Thread Repair Assortment					
Tanged	18-8 Stainless Steel	—	Inserts (36) Each: #10, ¼", 5/16", (18) Each: 3/8", 7/16", ½", (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	GA	**5WU72**
		—	Inserts (36) Each: ¼", 5/16", (18) Each: 3/8", 7/16", ½", (6) Each: 5/8", (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	GA	**5WU70**
		—	Inserts (36) Each: M5x0.8mm, M6x1mm, M8x1.25mm, (18) Each: M10x1.5mm, (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	GA	**5WU74**
Tanged, Free Running	304 Stainless Steel	95	Inserts (25) Each: ¼-20, 5/16-18, 3/8-16, (10) Each: 7/16-14, ½-13, (1) Each: HSS Taps, Drill Bits, Installation Tools	GA	**5UUY1**
		95	Inserts (25) Each: ¼-28, 5/16-24, 3/8-24, (10) Each: 7/16-20, ½-20, (1) Each: HSS Taps, Drill Bits, Installation Tools	GA	**5UUY2**
		110	Inserts (25) Each: M5x0.8, M6x1.0, M8x1.25, M10x1.5, (10) Each: M12x1.75, (1) Each: HSS Taps, Drill Bits, Installation Tools	GA	**5UUY3**
Helical Range Kit UNC,UNF, and Metric					
Standard	Stainless Steel	4	Inserts (12)ea UNF,UNC ¼ (10)ea UNC,UNF 5/16,3/8 (6)ea UNC,UNF 7/16,1/2 (12)ea M5,M6 (10) ea M8x1,M8x1.25, M10x1.25,M10x1.5(6)M11x1, M12x1.5, M12x1.75, Four Drawer Metal Cabinet	GA	**30PH35**
Lockable		4		GA	**30PH36**

Thread Repair Kits, Tools, and Refills

Repair tools adjust to fit all thread types and multiple sizes.

Size	Includes	Item No.
Repair Kit		
External 5/32" to 1 1/2"	Nes1A, Nes2	**6URT1**
External 5/32" to 6"	Nes1A, Nes2, Nes3	**6URP0**
Internal 5/16" to 1 3/16"	Nes21, Nes22, Nes23	**6URN4**
Internal 5/16" to 1 1/4"	Nes21, Nes22, Nes23, Nes24	**6URN5**
Internal 7/8" to 2 5/8"	Nes24, Nes25	**6URN9**
External 5/32" to 1/2", Internal No.12" to 1/2"	External Thread Tool, 2 Internal Thread Tool, 2 Nylon Pads	**6URN1**
External 5/32" to 3/4", Internal 5/16" to 5/8"	Nes1A, Nes21, Nes22	**6URN6**
External 5/32" to 3/4", Internal 5/16" to 1 3/16"	Nes1A, Nes21, Nes22, Nes23	**6URN7**
External 5/32" to 1 1/2", Internal 5/16" to 1 1/4"	Nes1A, Nes2, Nes21, Nes22, Nes23, Nes24	**6URN8**

Description	Mfr. Model	Item No.
Repair Tool		
External 5/32" to 1/2"	NES06040	**6URN2**
External 5/32" to 3/4"	NES1A	**6URT2**
External 1 1/16" to 1 1/2"	NES2	**6URT3**
External 1 3/8" to 6"	NES3	**6URT4**
Internal 5/16" to 7/16"	NES21	**6URP2**
Internal 1/2" to 3/8"	NES22	**6URP4**
Internal 11/16" to 1 3/16"	NES23	**6URP6**
Internal 7/8" to 1 1/4"	NES24	**6URP8**
Internal 1 1/4" to 2 1/8"	NES25	**6URR0**
Internal 1 1/4" to 2 5/8"	NES26	**6URR1**
Internal 2 3/4 to 3 3/16"	NES27	**38C905**
Internal 3 1/4 to 3 3/4"	NES28	**38C906**
Internal 3 3/4 to 4 1/4"	NES29	**38C907**

Description	Mfr. Model	Item No.
Accessories		
Keyway Skip Accessory Tool		
For Use With Large External Thread Repair Tool 6URT4	NES03101	**6URR2**
Steel Replacement Blade		
For Use With External Thread Repair Tool 6URT3	NESRK2	**6URT6**
For Use With External Thread Repair Tool 6URT4	NESRK3	**6URT7**
For Use With Thread Repair Tool 6URN2	NES060406	**6URN3**
For Use With Internal Thread Repair Tool 6URP6	NESRK23	**6URR5**
For Use With Internal Thread Repair Tool 6URP8	NESRK24	**6URR6**
For Use With Internal Thread Repair Tool 6URR0	NESRK25	**6URR7**



Prewinder Type II Thread Insert Tools

GA GRAINGER APPROVED · RECOIL · HeliCoil®

Used for inserts up to ½" diameter or M12 for metric. For small production runs. Removable handle allows hex shank to adjust. Use with screw gun. Install free-running and screw-locking helical inserts.



Use With Internal Thread Size	Brand	Item No.
2-56	GA	5XAL7
M2.5 x 0.45	Recoil	3HLZ2
	Heli-Coil	4CZU1
M3 x 0.5	Heli-Coil	4CZU4
	GA	5UUG5
M4 x 0.7	Recoil	3HLY5
	Heli-Coil	4CZJ9
4-40	Recoil	3HLW2
	Heli-Coil	4CZP4
M5 x 0.8	Recoil	3HLY6
	Heli-Coil	4CZK2
	GA	5UUG7
M6 x 1	Recoil	3HLY7
4-48	Heli-Coil	4CZP5
M6 x 1	Heli-Coil	4CZK1
	GA	5UUG8
5-40	Heli-Coil	4CZP9
6-32	Recoil	3HLW4

Use With Internal Thread Size	Brand	Item No.
M8 x 1	Recoil	5DFG0
6-32	Heli-Coil	4CZR2
M8 x 1	Heli-Coil	4CZU5
6-32	GA	5XAN1
M8 x 1	GA	5UUG9
M8 x 1.25	Heli-Coil	4CZU6
	GA	5UUH0
6-40	Recoil	3HLX5
	Heli-Coil	4CZR3
8-32	Recoil	3HLW5
	Heli-Coil	4CZR9
M10 x 1	Heli-Coil	4CZT4
8-32	GA	5XAN2
M10 x 1.25	Recoil	5DFG1
	GA	5UUH2
M10 x 1.5	Heli-Coil	4CZK3
	GA	5UUH3
8-36	Recoil	3HLX6
	Heli-Coil	4CZT1

Use With Internal Thread Size	Brand	Item No.
10-24	Recoil	3HLW6
	Heli-Coil	4CZK8
M12 x 1.25	Recoil	5DFG4
	Heli-Coil	4CZT6
	GA	5UUH4
M12 x 1.5	Recoil	5DFG2
M12 x 1.75	Recoil	3HLZ1
	Heli-Coil	4CZK4
	GA	5UUH6
10-32	Recoil	3HLX7
	Heli-Coil	4CZL1
	GA	5XAR0
12-24	Heli-Coil	4CZN2
¼-20	Recoil	3HLW8
	GA	5XAN5
¼-28	Recoil	3HLX8
	Heli-Coil	4CZK7
	GA	5XAR1

Use With Internal Thread Size	Brand	Item No.
5/16-18	Recoil	3HLW9
	GA	5XAN6
5/16-24	Recoil	3HLX9
	GA	5UUF6
3/8-16	Recoil	3HLX1
	GA	5XAN7
3/8-24	Recoil	3HLY1
	Heli-Coil	4CZP1
	GA	5UUF7
7/16-14	Recoil	3HLX2
	Heli-Coil	4CZR4
7/16-20	Heli-Coil	4CZR5
	GA	5UUF8
½-13	Recoil	3HLX3
	GA	5XAN9
½" - 20	Recoil	3HLY3
	Heli-Coil	4CZK5
	GA	5UUF9
5/8-18	GA	5UUG1



Thread Insert Tools

HeliCoil® GA GRAINGER APPROVED

A mandrel is wound into the insert and then screwed into the hole. Install free-running and screw-locking helical inserts.

Use With Internal Thread Size	Brand	Item No.
Insert Installation Tool		
Non-Captive Prewinder Type AM		
10-32	Heli-Coil	4EYE5
¼-28	Heli-Coil	4EYE3
5/16-24	Heli-Coil	4EYF4
3/8-24	Heli-Coil	4EYF1
7/16-20	Heli-Coil	4EYF9
9/16-18	Heli-Coil	4EYG3
¾-16	Heli-Coil	4EYE8
½" - 20	Heli-Coil	4EYE1
M4 x 0.7	Heli-Coil	4EYD4

Use With Internal Thread Size	Brand	Item No.
M5 x 0.8	Heli-Coil	4EYD5
M6 x 1	Heli-Coil	4EYD6
Non-Captive Prewinder Type IV		
9/16-18	Heli-Coil	4CZT3
5/8-18	Heli-Coil	4CZP8
¾-16	Heli-Coil	4CZN9
7/8-14	Heli-Coil	4CZR6
1-12	Heli-Coil	4CZL9
1-14	Heli-Coil	4CZN1
1⅛-12	Heli-Coil	4CZL7
1¼-12	Heli-Coil	4CZL5

Use With Internal Thread Size	Brand	Item No.
M16 x 2	Heli-Coil	4CZT9
M20 x 2.5	Heli-Coil	4CZU2
M24 x 3	Heli-Coil	4CZU3
Type III		
9/16-12	GA	5XAP0
5/8-11	GA	5XAP1
¾-10	GA	5XAP2
¾-16	GA	5UUG2
7/8-9	GA	5XAP3
7/8-14	GA	5UUG3
1-8	GA	5XAP4
1¼-7	GA	5XAP5

Use With Internal Thread Size	Brand	Item No.
M14 x 2	GA	5UUH7
M20 x 2.5	GA	5UUH9
M24 x 3	GA	5UUJ0
Threaded Mandrel Tool Type AM		
4-40	Heli-Coil	4EYF2
6-32	Heli-Coil	4EYF7
8-32	Heli-Coil	4EYG1
10-24	Heli-Coil	4EYE4
12-24	Heli-Coil	4EYE6
¼-20	Heli-Coil	4EYE2
5/16-18	Heli-Coil	4EYF3

Use With Internal Thread Size	Brand	Item No.
3/8-16	Heli-Coil	4EYE9
7/16-14	Heli-Coil	4EYF8
½-13	Heli-Coil	4EYD9
9/16-12	Heli-Coil	4EYG2
5/8-11	Heli-Coil	4EYF5
¾-10	Heli-Coil	4EYE7
M8 x 1.25	Heli-Coil	4EYD8
M10 x 1.5	Heli-Coil	4EYC5
M12 x 1.75	Heli-Coil	4EYC8
M14 x 2	Heli-Coil	4EYC9
M16 x 2	Heli-Coil	4EYD1
M18 x 2.5	Heli-Coil	4EYD2
M20 x 2.5	Heli-Coil	4EYD3

Use With Internal Thread Size	Brand	Item No.
Type I		
2-56	Heli-Coil	4CZN6
Type III		
9/16-12	Heli-Coil	4CZT2
5/8-11	Heli-Coil	4CZP7
¾-10	Heli-Coil	4CZN8
7/8-9	Heli-Coil	4CZR7
1-8	Heli-Coil	4CZN5
1⅛-7	Heli-Coil	4CZL8
1¼-7	Heli-Coil	4CZL6
1⅜-6	Heli-Coil	4CZN4
1½-6	Heli-Coil	4CZL4



Size	Length	No. of Pieces	Item No.
With Drill Bit			
GA			
2-56	0.129"	20	5UUK4
3-48	0.149"	20	5UUK5
3-56	0.149"	20	5UUN9
4-40	0.168"	20	5UUK6
5-40	0.188"	20	5UUK7
6-32	0.207"	20	5UUK8
6-40	0.207"	20	5UUP1
8-32	0.246"	20	5UUK9
8-36	0.246"	20	5UUP2
10-24	0.285"	20	5UUL0
10-32	0.285"	20	5UUP3
12-24	0.324"	20	5UUL1
¼-20	0.375"	20	5UUL2
¼-28	0.375"	20	5UUP4
5/16-18	0.469"	20	5UUL3
5/16-24	0.469"	20	5UUP5
3/8-16	0.563"	15	5UUL4
3/8-24	0.563"	15	5UUP6
7/16-14	0.656"	10	5UUL5
7/16-20	0.656"	10	5UUP7
½-13	0.750"	10	5UUL6
M2.5 x 0.45	3.75mm	20	5UUT2
M3 x 0.5	4.5mm	20	5UUT3
M4 x 0.7	6mm	20	5UUT4
M5 x 0.8	7.5mm	20	5UUT5
M6 x 1.0	9mm	20	5UUT6
M8 x 1.0	12mm	20	5UUT7
M8 x 1.25	12mm	20	5UUT8
M10 x 1.0	15mm	15	5UUT9
M10 x 1.25	15mm	15	5UUU0
M10 x 1.5	15mm	15	5UUU1
M12 x 1.25	18mm	10	5UUU2
M12 x 1.5	18mm	10	5UUU3
M12 x 1.75	18mm	10	5UUU4
Heli-Coil			
4-40	(12) 0.112/0.168/0.224"	36	4DCF9
5-40	(12) 0.125/0.188/0.250"	36	4DCH1
6-32	(12) 0.138/0.207/0.276"	36	4DCH3
6-40	(12) 0.138/0.207/0.276"	36	4DCH5
8-32	(12) 0.164/0.246/0.328"	36	4DCJ2
8-36	(12) 0.164/0.246/0.328"	36	4DCJ4
10-24	(12) 0.190/0.285/0.380"	36	4DCE1
10-32	(12) 0.190/0.285/0.380"	36	4DCE4
12-24	(12) 0.216/0.324/0.432"	36	4DCE7
1/8-27	0.273"	12	4EYC1
¼-18	0.394"	12	4EYA9
¼-20	(12) 0.250/0.375/0.500"	36	4DCD4
¼-28	(12) 0.250/0.375/0.500"	36	4DCD7
5/16-18	(12) 0.312/0.468/0.624"	36	4DCG2
5/16-24	(12) 0.312/0.468/0.624"	36	4DCG4
3/8-16	(6) 0.375/0.563/0.750"	18	4DCF5
3/8-18	0.407"	10	4EYC2
3/8-24	(6) 0.375/0.563/0.750"	18	4DCF7
7/16-14	(6) 0.438/0.657/0.876"	18	4DCH7

Size	Length	No. of Pieces	Item No.
7/16-20	(6) 0.438/0.657/0.876"	18	4DCH9
½-13	(6) 0.500/0.750/1.0"	18	4DCC7
½-14	0.534"	10	4EYA7
½-20	(6) 0.5/0.75/1.0"	18	4DCD1
9/16-12	0.844"	6	4DCJ6
9/16-18	0.844"	6	4DCJ8
5/8-11	0.938"	6	4DCG6
5/8-18	0.938"	6	4DCG8
¾-10	1.125"	4	4DCF1
¾-16	1.125"	4	4DCF3
7/8-9	1.312"	6	4EYA5
7/8-14	1.312"	6	4DCT4
1-8	1.500"	6	4DCT2
1-12	1.500"	6	4DCR7
1-14	1.500"	6	4DCR9
1⅛-7	1.688"	5	4DCR5
1⅛-12	1.688"	5	4DCR3
1¼-7	1.875"	4	4DCR1
1¼-12	1.875"	4	4DCP8
1½-12	2.250"	4	4DCP4
M3 x 0.5	(12) 3/4.5/6mm	36	4DCN1
M4 x 0.7	(6) 4/6/8mm	18	4DCN3
M5 x 0.8	(6) 5/7.5/10mm	18	4DCN5
M6 x 1	(6) 6/9/12mm	18	4DCN7
M8 x 1.25	(6) 8/12/16mm	18	4DCN9
M10 x 1	(6) 10/15/20mm	18	4DCK1
M10 x 1.5	(6) 10/15/20mm	18	4DCK3
M11 x 1.5	16.5mm	6	4DCK5
M12 x 1.25	(6) 12/18/24mm	18	4DCK7
M12 x 1.75	(6) 12/18/24mm	18	4DCK9
M14 x 2	21mm	12	4DCL2
M16 x 2	24mm	6	4DCL4
M18 x 2.5	27mm	6	4DCL6
M20 x 2.5	30mm	4	4DCL8
Without Drill Bit			
GA			
1/8-27	0.237"	10	5UUR8
¼-18	0.394"	10	5UUR9
3/8-18	0.563"	10	5UUT0
½-14	0.750"	10	5UUT1
9/16-12	0.843"	10	5UUL7
9/16-18	0.843"	10	5UUP9
5/8-11	0.938"	10	5UUL8
5/8-18	0.938"	10	5UUR0
¾-10	1.125"	5	5UUL9
¾-16	1.125"	5	5UUR1
7/8-9	1.312"	5	5UUN0
7/8-14	1.313"	5	5UUR2
1-8	1.500"	4	5UUN1
1-12	1.500"	4	5UUR3
1-14	1.500"	4	5UUR4
1⅛-7	1.688"	5	5UUN2
1⅛-8	1.688"	4	30PE71
1⅛-12	1.688"	5	5UUR5
1¼-7	1.875"	5	5UUN3
1¼-8	1.875"	4	30PE72
1¼-12	1.875"	5	5UUR6

Size	Length	No. of Pieces	Item No.
1⅜-8	2.063"	4	30PE73
1½-6	2.250"	5	5UUN4
1½-8	2.250"	2	30PE74
1½-12	2.250"	5	5UUR7
1⅝-8	2.438"	2	30PE75
1¾-8	2.625"	2	30PE76
1⅞-8	2.813"	2	30PE77
2-8	3.000"	2	30PE78
2⅛-8	3.188"	2	30PE79
2¼-8	3.375"	2	30PE80
2⅜-8	3.563"	2	30PE81
2½-8	3.750"	2	30PE82
2⅝-8	3.938"	2	30PE83
2¾-8	4.125"	2	30PE84
2⅞-8	4.313"	2	30PE85
3-8	4.500"	2	30PE86
3⅛-8	3.906"	2	30PE87
3¼-8	4.063"	2	30PE88
3⅜-8	4.219"	2	30PE89
3½-8	4.330"	2	30PE90
M14 x 1.5	21mm	10	5UUU5
M14 x 2.0	21mm	10	5UUU6
M16 x 2.0	24mm	10	5UUU7
M18 x 2.5	27mm	5	5UUU8
M20 x 2.5	30mm	5	5UUU9
M22x1.5	33mm	4	30PE91
M22x2.0	33mm	4	30PE92
M22x2.5	33mm	4	30PE93
M24x1.5	36mm	4	30PE94
M24x2.0	36mm	4	30PE95
M24 x 3.0	36mm	5	5UUV0
M26x1.5	39mm	4	30PE96
M27x1.5	40.5mm	4	30PE97
M27x2.0	40.5mm	4	30PE98
M27x3.0	40.5mm	4	30PE99
M28x1.5	42mm	4	30PF01
M30x1.5	45mm	4	30PF02
M30x2.0	45mm	4	30PF03
M30x3.5	45mm	4	30PF04
M33x2.0	49.5mm	4	30PF05
M33x3.5	49.5mm	4	30PF06
M34x1.5	51mm	4	30PF07
M36x1.5	54mm	4	30PF08
M36x2.0	54mm	4	30PF09
M36x3.0	54mm	4	30PF10
M36x4.0	54mm	4	30PF11
M39x3.0	58.5mm	4	30PF15
M39x4.0	58.5mm	4	30PF12
M42x3.0	63mm	4	30PF16
M42x4.5	63mm	4	30PF13
M45x4.5	67.5mm	4	30PF14
M48x3.0	72mm	2	30PF18
M52x3.0	78mm	2	30PF19
M54x3.0	81mm	2	30PF20
M56x4.0	84mm	2	30PF17
M64x3.0	96mm	2	30PF22
M64x4.0	96mm	2	30PF21

GA GRAINGER APPROVED

HeliCoil®

Thread Repair Kits

- 304 Stainless steel

Contain inserts, high-speed screw thread insert (STI) plug tap, and installation tool.

Helical Wire Thread Inserts

HeliCoil® GA GRAINGER APPROVED

Free-running and locking internal designs are different. Nitronic® 60 stainless steel inserts are a lower-cost alternative to cobalt-bearing and high nickel alloy, with better corrosion resistance than Type 304 in most media, better chloride pitting resistance than Type 316, and nearly twice the yield strength of Types 304 and 316. Screw thread insert taps sold separately on page 2141.

Free-Running—Greater in diameter than tapped hole; compress when installed. Inserts evenly distribute load and stress.

Screw Locking—Eliminates backout of installed fastener from stress and vibration. Locking torque is retained over numerous assembly cycles.



Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
UNC								
304 Stainless Steel								
2-56	0.086"	0.115"	3/32"	4EYR9	Heli-Coil	100	4CZZ5	4GDC2
	0.129"	0.115"	3/32"	4EYR9	Heli-Coil	100	4CZZ6	4GDC3
	0.172"	0.115"	3/32"	4EYR9	Heli-Coil	100	4CZZ7	4GDC4
	0.086"	0.119"	#41	4EYR9	GA	10	5UTX8	5WZT1
	0.129"	0.119"	#41	4EYR9	GA	10	5UTX9	5WZT2
4-40	0.112"	0.151"	#31	4EYT8	Heli-Coil	100	4DAA5	—
	0.168"	0.151"	#31	4EYT8	Heli-Coil	100	4DAA6	4GDD3
	0.168"	0.151"	#31	4EYT8	Heli-Coil	12	4EYG5	—
	0.224"	0.151"	#31	4EYT8	Heli-Coil	100	4DAA7	4GDD4
	0.112"	0.159"	#31	4EYT8	GA	10	5UTY0	5WZT3
	0.168"	0.159"	#31	4EYT8	GA	10	5UTY1	5WZT4
	0.224"	0.159"	#31	4EYT8	GA	10	5UTY2	5WZT5
5-40	0.188"	0.166"	#29	4EYU6	Heli-Coil	12	4EYG7	—
	0.125"	0.173"	#29	4EYU6	GA	10	5UTY3	5WZT6
	0.188"	0.173"	#29	4EYU6	GA	10	5UTY4	5WZT7
	0.250"	0.173"	#29	4EYU6	GA	10	5UTY5	5WZT8
6-32	0.138"	0.185"	#26	4EYN1	Heli-Coil	100	4DAD6	4GDE2
	0.173"	0.185"	#26	4EYN1	Heli-Coil	100	—	4GDE3
	0.207"	0.185"	#26	4EYN1	Heli-Coil	100	4DAD7	4GDE4
	0.207"	0.185"	#26	4EYN1	Heli-Coil	12	4EYG8	—
	0.276"	0.185"	#26	4EYN1	Heli-Coil	100	4DAD8	4GDE5
	0.138"	0.193"	#25	4EYN1	GA	10	5UTY6	5WZT9
	0.207"	0.193"	#25	4EYN1	GA	10	5UTY7	5WZU0
	0.276"	0.193"	#25	4EYN1	GA	10	5UTY8	5WZU1
8-32	0.164"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV3	4GDF3
	0.246"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV4	4GDF4
	0.246"	0.212"	#17	4EYN3	Heli-Coil	12	4EYG9	—
	0.328"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV5	4GDF5
	0.164"	0.220"	11/64"	4EYN3	GA	10	5UTY9	5WZU2
	0.246"	0.220"	11/64"	4EYN3	GA	10	5UTZ0	5WZU3
	0.328"	0.220"	11/64"	4EYN3	GA	10	5UTZ1	5WZU4
10-24	0.190"	0.251"	13/64"	4EYP3	Heli-Coil	100	4CZY2	4GDG3
	0.285"	0.251"	13/64"	4EYP3	Heli-Coil	100	4CZY3	4GDG4
	0.285"	0.251"	13/64"	4EYP3	Heli-Coil	12	4EYH7	—
	0.380"	0.251"	13/64"	4EYP3	Heli-Coil	100	4CZY4	4GDG5
	0.190"	0.259"	13/64"	4EYP3	GA	10	5UTZ2	5WZU5
	0.285"	0.259"	13/64"	4EYP3	GA	10	5UTZ3	5WZU6
	0.380"	0.259"	13/64"	4EYP3	GA	10	5UTZ4	5WZU7
12-24	0.324"	0.276"	#1	4EYR4	Heli-Coil	12	4EYH9	—
	0.216"	0.283"	15/64"	4EYR4	GA	10	5UTZ5	—
	0.324"	0.283"	15/64"	4EYR4	GA	10	5UTZ6	—
1/4-20	0.250"	0.320"	H	4EYN9	Heli-Coil	100	4CZW8	4GDH3
	0.375"	0.320"	H	4EYN9	Heli-Coil	100	4CZW9	4GDH4
	0.375"	0.320"	H	4EYN9	Heli-Coil	12	4EYH5	—
	0.500"	0.320"	H	4EYN9	Heli-Coil	100	4CZX1	4GDH5
	0.750"	0.320"	H	4EYN9	Heli-Coil	100	4CZX2	—
	0.250"	0.330"	17/64"	4EYN9	GA	10	5UTZ7	5WZU8
	0.375"	0.330"	17/64"	4EYN9	GA	10	5UTZ8	5WZU9
	0.500"	0.330"	17/64"	4EYN9	GA	10	5UTZ9	5WZV0
5/16-18	0.312"	0.390"	Q	4EYU1	Heli-Coil	100	4DAC6	4GDJ4
	0.469"	0.390"	Q	4EYU1	Heli-Coil	100	4DAC7	4GDJ5
	0.469"	0.390"	Q	4EYU1	Heli-Coil	12	4EYJ3	—
	0.625"	0.390"	Q	4EYU1	Heli-Coil	100	4DAC8	4GDJ6
	0.312"	0.400"	21/64"	4EYU1	GA	10	5UUA0	5WZV1
	0.468"	0.400"	21/64"	4EYU1	GA	10	5UUA1	5WZV2
	0.625"	0.400"	21/64"	4EYU1	GA	10	5UUA2	5WZV3
3/8-16	0.375"	0.462"	X	4EYT4	Heli-Coil	100	4DAA2	—
	0.562"	0.462"	X	4EYT4	Heli-Coil	100	4DAA3	4GDK4
	0.562"	0.462"	X	4EYT4	Heli-Coil	12	4EYJ1	—
3/8"-16	0.750"	0.462"	X	4EYT4	Heli-Coil	100	4DAA4	—
3/8-16	0.375"	0.472"	25/64"	4EYT4	GA	10	5UUA3	5WZV4
	0.750"	0.472"	25/64"	4EYT4	GA	10	5UUA5	5WZV6
7/16"-14	0.438"	0.539"	29/64"	4EYU7	Heli-Coil	100	4DAE5	—
7/16-14	0.656"	0.539"	29/64"	4EYU7	Heli-Coil	6	4EYJ5	—
	0.438"	0.551"	29/64"	4EYU7	GA	10	5UUA6	—
	0.438"	0.551"	29/64"	4EYU7	GA	5	—	5WZV7
	0.656"	0.551"	29/64"	4EYU7	GA	10	5UUA7	—
	0.656"	0.551"	29/64"	4EYU7	GA	5	—	5WZV8
	0.875"	0.551"	29/64"	4EYU7	GA	10	5UUA8	—
	0.875"	0.551"	29/64"	4EYU7	GA	5	—	5WZV9
1/2-13	0.500"	0.610"	33/64"	4EYN5	Heli-Coil	100	4CZW4	—
	0.750"	0.610"	33/64"	4EYN5	Heli-Coil	100	4CZW5	—
	0.750"	0.610"	33/64"	4EYN5	Heli-Coil	6	4EYH2	—
	1"	0.610"	33/64"	4EYN5	Heli-Coil	100	4CZW3	—
	0.500"	0.622"	33/64"	4EYN5	GA	10	5UUA9	—
	0.500"	0.622"	33/64"	4EYN5	GA	5	—	5WZW0
	0.750"	0.622"	33/64"	4EYN5	GA	10	5UUC0	—
	0.750"	0.622"	33/64"	4EYN5	GA	5	—	5WZW1
5/8-11	0.938"	0.622"	21/32"	4EYU3	GA	5	5UUC5	5WZW6
1/2-13	1.000"	0.622"	33/64"	4EYN5	GA	10	5UUC1	—
	1.000"	0.622"	33/64"	4EYN5	GA	5	—	5WZW2
9/16-12	0.844"	0.682"	19/32"	4EYV3	Heli-Coil	6	4EYH1	—
	0.562"	0.694"	19/32"	4EYV3	GA	5	5UUC2	5WZW3
	0.844"	0.694"	19/32"	4EYV3	GA	5	5UUC3	5WZW4
3/8-16	0.562"	0.742"	25/64"	4EYT4	GA	10	5UUA4	5WZV5
5/8-11	0.625"	0.742"	21/32"	4EYU3	GA	5	5UUC4	5WZW5
	0.938"	0.754"	21/32"	4EYU3	Heli-Coil	100	4DAD4	—
	0.938"	0.754"	21/32"	4EYU3	Heli-Coil	6	4EYG6	—
3/4-10	0.750"	0.881"	25/32"	4EYT1	GA	5	5UUC6	—
	0.750"	0.881"	25/32"	4EYT1	GA	1	—	5WZW7
	1.125"	0.881"	25/32"	4EYT1	GA	5	5UUC7	—
	1.125"	0.881"	25/32"	4EYT1	GA	1	—	5WZW8
	0.750"	0.893"	25/32"	4EYT1	Heli-Coil	1	—	4EXF9
	1.125"	0.893"	25/32"	4EYT1	Heli-Coil	4	4EYG4	—
	1.125"	0.893"	25/32"	4EYT1	Heli-Coil	1	—	4EXF8
7/8-9	0.875"	1.022"	29/32"	4EYV1	GA	1	5UUC8	—
	0.875"	1.022"	29/32"	4EYV2	GA	1	—	5WZW9
	1.313"	1.022"	29/32"	4EYV1	GA	1	5UUC9	—
	1.313"	1.022"	29/32"	4EYV2	GA	1	—	5WZX0
	0.875"	1.037"	29/32"	4EYV2	Heli-Coil	1	—	4EXG2
	1.312"	1.037"	29/32"	4EYV2	Heli-Coil	1	4EWT6	4EXG1
1-8	1.000"	1.181"	1 1/32"	4EYR8	Heli-Coil	1	—	4EXG3
	1.500"	1.181"	1 1/32"	4EYR8	Heli-Coil	1	4EWT2	4EXG4
	1.000"	1.196"	1 1/32"	4EYR8	GA	1	5UUD0	5WZX1
	1.500"	1.196"	1 1/32"	4EYR8	GA	1	5UUD1	5WZX2
1 1/8-7	1.125"	1.335"	1 11/64"	4EYR1	Heli-Coil	1	—	4EXG5
	1.688"	1.335"	1 11/64"	4EYR1	Heli-Coil	1	4EWR5	4EXG6
	1.125"	1.355"	1 5/32"	4EYR1	GA	1	5UUD2	5WZX3
	1.688"	1.355"	1 5/32"	4EYR1	GA	1	5UUD3	5WZX4
1 1/4-7	1.250"	1.463"	1 19/64"	4EYP8	Heli-Coil	1	—	4EXG7
	1.875"	1.463"	1 19/64"	4EYP8	Heli-Coil	1	4EWR3	—
	1.250"	1.483"	1 9/32"	4EYP8	GA	1	5UUD4	5WZX5
	1.875"	1.483"	1 9/32"	4EYP8	GA	1	5UUD5	5WZX6
1 3/8-6	2.062"	1.620"	1 27/64"	4EYR6	Heli-Coil	1	4EWT1	—
1 1/2-6	2.250"	1.749"	1 35/64"	4EYP6	Heli-Coil	1	4EWP8	—
1 1/2-6	1.500"	1.772"	1 17/32"	4EYP6	GA	1	5UUD6	—
1 1/2 a 6	1.500"	1.772"	1 17/32"	4EYP6	GA	1	—	5WZX7
1 1/2-6	2.250"	1.772"	1 17/32"	4EYP6	GA	1	5UUD7	—
1 1/2 a 6	2.250"	1.772"	1 17/32"	4EYP6	GA	1	—	5WZX8
304 Stainless Steel, Dry Film Lubricant								
2-56	0.086"	0.115"	3/32"	4EYR9	Heli-Coil	100	4CZZ8	4GDC5
	0.129"	0.115"	3/32"	4EYR9	Heli-Coil	100	4CZZ9	4GDC6
	0.172"	0.115"	3/32"	4EYR9	Heli-Coil	100	4DAA1	4GDC7
4-40	0.112"	0.151"	#31	4EYT8	Heli-Coil	100	4DAA8	4GDD2
	0.112"	0.151"	#31	4EYT8	Heli-Coil	100	—	4GDD5
	0.168"	0.151"	#31	4EYT8	Heli-Coil	100	4DAA9	4GDD6
	0.224"	0.151"	#31	4EYT8	Heli-Coil	100	4DAC1	4GDD7
	0.280"	0.151"	#31	4EYT8	Heli-Coil	100	4DAC2	—
	0.336"	0.151"	#31	4EYT8	Heli-Coil	100	4DAC3	—
6-32	0.138"	0.185"	#26	4EYN1	Heli-Coil	100	4DAD9	4GDE6
	0.207"	0.185"	#26	4EYN1	Heli-Coil	100	4DAD5	4GDE7
	0.276"	0.185"	#26	4EYN1	Heli-Coil	100	4DAE1	4GDE8
	0.345"	0.185"	#26	4EYN1	Heli-Coil	100	4DAE2	—
8-32	0.164"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV6	4GDF6
	0.246"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV7	4GDF7
	0.328"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV8	4GDF8
	0.492"	0.212"	#17	4EYN3	Heli-Coil	100	4CZV9	—
10-24	0.190"	0.251"	13/64"	4EYP3	Heli-Coil	100	4CZY6	4GDG6
	0.285"	0.251"	13/64"	4EYP3	Heli-Coil	100	4CZY5	4GDG7
	0.380"	0.251"	13/64"	4EYP3	Heli-Coil	100	—	4GDG8
1/4-20	0.250"	0.320"	H	4EYN9	Heli-Coil	100	—	4GDH6
	0.375"	0.320"	H	4EYN9	Heli-Coil	100	4CZX3	4GDH7
	0.500"	0.320"	H	4EYN9	Heli-Coil	100	4CZX4	4GDH8
5/16-18	0.312"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDJ7
	0.469"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDJ8
	0.625"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDJ9
Nitronic 60								
2-56	0.086"	0.115"	3/32"	4EYR9	Heli-Coil	100	—	4GDC8
4-40	0.112"	0.151"	#31	4EYT8	Heli-Coil	100	—	4GDD8
	0.168"	0.151"	#31	4EYT8	Heli-Coil	100	—	4GDD9
	0.224"	0.151"	#31	4EYT8	Heli-Coil	100	—	4GDE1
	0.280"	0.151"	#31	4EYT8	Heli-Coil	100	—	4DAC4
	0.336"	0.151"	#31	4EYT8	Heli-Coil	100	—	4DAC5
6-32	0.138"	0.185"	#26	4EYN1	Heli-Coil	100	—	4GDE9
	0.207"	0.185"	#26	4EYN1	Heli-Coil	100	—	4GDF1
	0.276"	0.185"	#26	4EYN1	Heli-Coil	100	—	4GDF2
	0.345"	0.185"	#26	4EYN1	Heli-Coil	100	4DAE3	—
	0.414"	0.185"	#26	4EYN1	Heli-Coil	100	—	4DAE4
8-32	0.164"	0.212"	#17	4EYN3	Heli-Coil	100	—	4GDF9
	0.246"	0.212"	#17	4EYN3	Heli-Coil	100	—	4GDG1
	0.328"	0.212"	#17	4EYN3	Heli-Coil	100	—	4GDG2
	0.410"	0.212"	#17	4EYN3	Heli-Coil	100	—	4CZW1
	0.492"	0.212"	#17	4EYN3	Heli-Coil	100	4CZW2	—
10-24	0.190"	0.251"	13/64"	4EYP3	Heli-Coil	100	—	4GDG9
	0.380"	0.251"	13/64"	4EYP3	Heli-Coil	100	—	4GDH2
	0.385"	0.251"	13/64"	4EYP3	Heli-Coil	100	—	4GDH1
1/4-20	0.250"	0.320"	H	4EYN9	Heli-Coil	100	—	4GDH9
	0.375"	0.320"	H	4EYN9	Heli-Coil	100	—	4GDJ1
	0.500"	0.320"	H	4EYN9	Heli-Coil	100	—	4GDJ2
	0.625"	0.320"	H	4EYN9	Heli-Coil	100	—	4CZW6
	0.750"	0.320"	H	4EYN9	Heli-Coil	100	4CZW7	4GDJ3
5/16-18	0.312"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDK1
	0.469"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDK2
	0.625"	0.390"	Q	4EYU1	Heli-Coil	100	—	4GDK3

** Length is installed length.*

CONTINUED

CONTINUED

Helical Wire Thread Inserts HeliCoil® GRAINGER APPROVED

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
UNF								
304 Stainless Steel								
8-36	0.492"	0.214"	#17	4EYN4	Heli-Coil	100	—	4GDL1
	0.246"	0.224"	11/64"	4EYN4	GA	10	—	5WZX9
10-32	0.190"	0.246"	#7	4EYP4	Heli-Coil	100	4CZY7	4GDL2
	0.285"	0.246"	#7	4EYP4	Heli-Coil	100	4CZY8	4GDL3
	0.285"	0.246"	#7	4EYP4	Heli-Coil	12	4EYH8	—
	0.380"	0.246"	#7	4EYP4	Heli-Coil	100	4CZY9	4GDL4
	0.190"	0.256"	13/64"	4EYP4	GA	10	5UUD8	5WZY0
	0.285"	0.256"	13/64"	4EYP4	GA	10	5UUD9	5WZY1
	0.380"	0.256"	13/64"	4EYP4	GA	10	5UUE0	5WZY2
46756	0.250"	0.316"	G	4EYP1	Heli-Coil	100	4CZX5	—
1/4-28	0.250"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDN5
	0.313"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDN6
	0.375"	0.316"	G	4EYP1	Heli-Coil	100	4CZX6	4GDN7
	0.375"	0.316"	G	4EYP1	Heli-Coil	100	4CZY1	—
	0.500"	0.316"	G	4EYP1	Heli-Coil	100	4CZX7	4GDN8
	0.250"	0.326"	17/64"	4EYP1	GA	10	5UUE1	5WZY3
	0.375"	0.326"	17/64"	4EYP1	GA	10	5UUE2	5WZY4
	0.500"	0.326"	17/64"	4EYP1	GA	10	5UUE3	5WZY5
5/16-24	0.250"	0.390"	21/64"	4EYU2	Heli-Coil	100	4DAD3	—
	0.312"	0.390"	21/64"	4EYU2	Heli-Coil	100	4DAC9	4GDP7
	0.469"	0.390"	21/64"	4EYU2	Heli-Coil	100	4DAD1	4GDP8
	0.625"	0.390"	21/64"	4EYU2	Heli-Coil	100	4DAD2	4GDP9
	0.781"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR1
	0.938"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR2
	0.312"	0.400"	21/64"	4EYU2	GA	10	5UUE4	5WZY6
	0.469"	0.400"	21/64"	4EYU2	GA	10	5UUE5	5WZY7
5/16"-24	0.625"	0.400"	21/64"	—	GA	10	5UUE6	—
5/16-24	0.625"	0.400"	21/64"	4EYU2	GA	10	—	5WZY8
3/8-24	0.562"	0.458"	25/64"	4EYT6	Heli-Coil	12	4EYJ2	—
	0.375"	0.468"	25/64"	4EYT6	GA	10	5UUE7	5WZY9
	0.563"	0.468"	25/64"	4EYT6	GA	10	5UUE8	5WZZ0
	0.750"	0.468"	25/64"	4EYT6	GA	10	5UUE9	5WZZ1
7/16-20	0.656"	0.537"	29/64"	4EYU8	Heli-Coil	6	4EYJ6	—
	0.438"	0.549"	29/64"	4EYU8	GA	10	5UUF0	—
	0.438"	0.549"	29/64"	4EYU8	GA	5	—	5WZZ2
	0.656"	0.549"	29/64"	4EYU8	GA	10	5UUF1	—
	0.656"	0.549"	29/64"	4EYU8	GA	5	—	5WZZ3
	0.876"	0.549"	29/64"	4EYU8	GA	10	5UUF2	—
	0.876"	0.549"	29/64"	4EYU8	GA	5	—	5WZZ4
1/2-20	0.750"	0.605"	33/64"	4EYN7	Heli-Coil	6	4EYH3	—
	0.500"	0.617"	33/64"	4EYN7	GA	10	5UUF3	—
	0.500"	0.617"	33/64"	4EYN7	GA	5	—	5WZZ5
	0.750"	0.617"	33/64"	4EYN7	GA	10	5UUF4	—
	0.750"	0.617"	33/64"	4EYN7	GA	5	—	5WZZ6
	1.000"	0.617"	33/64"	4EYN7	GA	10	5UUF5	—
	1.000"	0.617"	33/64"	4EYN7	GA	5	—	5WZZ7
9/16-18	1.125"	0.679"	37/64"	4EYV4	Heli-Coil	6	4EYJ7	—
	0.562"	0.691"	37/64"	4EYV4	GA	5	5WZH4	5WZZ8
	0.843"	0.691"	37/64"	4EYV4	GA	5	5WZH5	5WZZ9
5/8-18	0.938"	0.746"	41/64"	4EYU5	Heli-Coil	6	4EYJ4	—
	0.625"	0.758"	41/64"	4EYU5	GA	5	5WZH6	—
	0.938"	0.758"	41/64"	4EYU5	GA	5	5WZH7	5XAA1
3/4-16	0.750"	0.888"	49/64"	4EYT3	Heli-Coil	1	—	4EXK9
	1.125"	0.888"	49/64"	4EYT3	Heli-Coil	1	—	4EXK8
	0.750"	0.901"	49/64"	4EYT3	GA	5	5WZH8	—
	0.750"	0.901"	49/64"	4EYT3	GA	1	—	5XAA2
	1.125"	0.901"	49/64"	4EYT3	GA	5	5WZH9	—
	1.125"	0.901"	49/64"	4EYT3	GA	1	—	5XAA3
7/8-14	0.875"	1.036"	57/64"	4EYU9	Heli-Coil	1	—	4EXL2
	1.312"	1.036"	57/64"	4EYU9	Heli-Coil	1	4EWT5	—
	0.875"	1.051"	57/64"	4EYU9	GA	1	5WZJ0	5XAA4
	1.313"	1.051"	57/64"	4EYU9	GA	1	5WZJ1	5XAA5
1-12	1.500"	1.0990"	1 1/64"	4EYR2	Heli-Coil	1	4EWR7	—
	1.000"	1.1000"	1 1/64"	4EYR2	Heli-Coil	1	—	4EXL3
	1.500"	1.1100'	1 1/64"	4EYR2	Heli-Coil	1	—	4EXL4
	1.000"	1.1200"	1 1/64"	4EYR2	GA	1	5WZJ4	—
	1.500"	1.1200"	1 1/64"	4EYR2	GA	1	5WZJ5	—
1-14	1.500"	1.171"	1 1/64"	4EYR3	Heli-Coil	1	4EWR8	4EXL6
	1.000"	1.199"	1 1/64"	4EYR3	GA	1	5WZJ2	5XAA6
	1.500"	1.199"	1 1/64"	4EYR3	GA	1	5WZJ3	—
1 1/8-12	1.125"	1.319"	1 9/64"	4EYP9	Heli-Coil	100	—	4GDK5
	1.688"	1.319"	1 9/64"	4EYP9	Heli-Coil	1	4EWR4	—
	1.688"	1.319"	1 9/64"	4EYP9	Heli-Coil	100	—	4GDK6
	1.125"	1.334"	1 5/32"	4EYP9	GA	1	5WZJ6	—
	1.688"	1.334"	1 5/32"	4EYP9	GA	1	5WZJ7	—
1 1/4-12	1.250"	1.454"	1 17/64"	4EYP7	Heli-Coil	100	—	4GDK7
	1.875"	1.454"	1 17/64"	4EYP7	Heli-Coil	1	4EWP9	—
	1.875"	1.454"	1 17/64"	4EYP7	Heli-Coil	100	—	4GDK8
	1.250"	1.469"	1 9/32"	4EYP7	GA	1	5WZJ8	5XAC2
	1.875"	1.469"	1 9/32"	4EYP7	GA	1	5WZJ9	—
1 1/4"-12	1.875"	1.469"	1 9/32"	4EYP7	GA	1	—	5XAC3
1 3/8-12	2.062"	1.593"	1 25/64"	4EYR5	Heli-Coil	1	4EWR9	—
1 1/2-12	2.250"	1.727"	1 33/64"	4EYP5	Heli-Coil	1	4EWP4	—
	2.250"	1.727"	1 33/64"	4EYP5	Heli-Coil	100	—	4GDK9
	1.500"	1.745"	1 11/32"	4EYP5	GA	1	5WZK0	5XAC4
304 Stainless Steel, Dry Film Lubricant								
10-32	0.190"	0.246"	#7	4EYP4	Heli-Coil	100	4CZZ1	4GDL5
	0.285"	0.246"	#7	4EYP4	Heli-Coil	100	4CZZ2	4GDL6
	0.380"	0.246"	#7	4EYP4	Heli-Coil	100	4CZZ3	4GDL7
	0.570"	0.246"	#7	4EYP4	Heli-Coil	100	4CZZ4	—
1/4-28	0.187"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDN9
	0.250"	0.316"	G	4EYP1	Heli-Coil	100	4CZX8	4GDP1
	0.375"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDP2
	0.500"	0.316"	G	4EYP1	Heli-Coil	100	4CZX9	4GDP3
5/16-24	0.312"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR3
	0.469"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR4
	0.625"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR5
	0.781"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR6
	0.938"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR7

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
Nitronic 60								
10-32	0.190"	0.246"	#7	4EYP4	Heli-Coil	100	—	4GDL8
	0.285"	0.246"	#7	4EYP4	Heli-Coil	100	—	4GDN1
	0.380"	0.246"	#7	4EYP4	Heli-Coil	100	4CZU9	4GDN2
	0.475"	0.246"	#7	4EYP4	Heli-Coil	100	4CZV1	4GDN3
	0.570"	0.246"	#7	4EYP4	Heli-Coil	100	4CZV2	4GDN4
1/4-28	0.250"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDP4
	0.375"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDP5
	0.500"	0.316"	G	4EYP1	Heli-Coil	100	—	4GDP6
5/16-24	0.312"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR8
	0.469"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDR9
	0.625"	0.390"	21/64"	4EYU2	Heli-Coil	100	—	4GDT1
NPT								
304 Stainless Steel								
1/8-27	0.273"	0.499"	U	—	Heli-Coil	12	4EYH6	—
	0.273"	0.511"	3/8"	4EYP2	GA	10	5WZK1	—
1/4-18	0.394"	0.680"	33/64"	4EYN9	GA	10	5WZK2	—
3/8-18	0.407"	0.828"	21/32"	4EYT5	GA	10	5WZK3	—
1/2-14	0.534"	1.035"	13/16"	4EYN5	GA	5	5WZK4	—
ANPT								
1/4-18	0.394"	0.668"	31/64"	—	Heli-Coil	12	4EYH4	—
3/8-18	0.407"	0.816"	5/8"	—	Heli-Coil	5	4EWT4	—
1/2-14	0.534"	1.020"	25/32"	—	Heli-Coil	5	4EWP3	—
3/4-14	0.534"	1.247"	63/64"	—	Heli-Coil	5	4EWT3	—
1-11 1/2	0.661"	1.558"	1.250"	—	Heli-Coil	2	4EWR6	—
Metric Fine								
M8 x 1	8mm	9.900mm	8.3mm	4EYY6	GA	10	—	5XAE0
	12mm	9.98mm	8.25mm	4EYY6	Heli-Coil	12	4EYL5	—
	8mm	10.000mm	8.3mm	4EYY6	GA	10	5WZN0	—
	12mm	10.000mm	8.3mm	4EYY6	GA	10	—	5XAE1
	12mm	10.001mm	8.3mm	4EYY6	GA	10	5WZN1	—
	16mm	10.002mm	8.3mm	4EYY6	GA	10	5WZN2	—
	16mm	11.000mm	8.3mm	4EYY6	GA	10	—	5XAE2
M10 x 1	15.0mm	12.23mm	10.25mm	4EYV6	Heli-Coil	12	4EYJ8	—
	10mm	12.50mm	10.3mm	4EYV6	GA	10	5WZN6	—
	15mm	12.50mm	10.3mm	4EYV6	GA	10	5WZN7	—
	20mm	12.50mm	10.3mm	4EYV6	GA	10	5WZN8	—
M10 x 1.25	15mm	12.5500mm	10.25mm	4EYV7	Heli-Coil	12	4EYJ9	—
	10mm	12.65mm	10.3mm	4EYV7	GA	10	5WZN9	5XAE6
	15mm	12.65mm	10.3mm	4EYV7	GA	10	5WZP0	5XAE7
M12 x 1.5	18mm	14.6mm	12.25mm	4EYW4	Heli-Coil	6	4EYK3	—
M12 x 1.25	18mm	14.65mm	12.25mm	4EYW2	Heli-Coil	6	4EYK2	—
	12mm	15.00mm	12.3mm	4EYW3	GA	5	5WZP4	—
	18mm	15.00mm	12.3mm	4EYW3	GA	5	5WZP5	—
	18mm	15.00mm	12.3mm	4EYW2	GA	5	—	5XAF1
	24mm	15.00mm	12.3mm	4EYW3	GA	5	5WZP6	—
M12 x 1.5	18mm	15.20mm	12.3mm	4EYW4	GA	5	5WZP7	—
M14 x 1.5	21mm	16.9mm	14.25mm	4EYW6	Heli-Coil	6	4EYK5	—
	21mm	17.25mm	14.3mm	4EYW6	GA	5	5WZR1	5XAF5
Metric Coarse								
M2 x 0.4	2mm	2.6mm	2.1mm	—	Heli-Coil	100	4DAG5	—
	5mm	2.6mm	2.1mm	—	Heli-Coil	100	4DAG7	—
	6mm	2.6mm	2.1mm	—	Heli-Coil	100	4DAG9	—
M2.2 x 0.45	4.4mm	2.9mm	2.3mm	—	Heli-Coil	100	4DAE9	—
	6.6mm	2.9mm	2.3mm	—	Heli-Coil	100	4DAF1	—
M2.5 x 0.45	2.5mm	3.45mm	2.55mm	—	Heli-Coil	100	4DAF2	—
	2.5mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU1
	3.8mm	3.45mm	2.55mm	—	Heli-Coil	100	4DAF3	—
	3.8mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU2
	5mm	3.45mm	2.55mm	—	Heli-Coil	100	4DAF4	—
	5mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU3
	6.3mm	3.45mm	2.55mm	—	Heli-Coil	100	4DAF5	—
	7.5mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU4
	7.5mm	3.45mm	2.55mm	—	Heli-Coil	100	4DAF6	—
	2.5mm	3.70mm	2.6mm	4EYX1	GA	10	5WZK5	5XAC5
	3.75mm	3.70mm	2.6mm	4EYX1	GA	10	5WZK6	5XAC6
	5mm	3.70mm	2.6mm	4EYX1	GA	10	5WZK7	5XAC7
M3 x 0.5	3mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAH2	4GDV6
	4.5mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAH4	4GDV7
	6mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAH6	4GDV8
	7.5mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAH8	4GDV9
	9mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ1	4GDW1
	4.5mm	4.08mm	3.15mm	4EYX5	Heli-Coil	12	4EYL1	—
	3mm	4.35mm	3.2mm	4EYX5	GA	10	5WZK8	5XAC8
	4.5mm	4.35mm	3.2mm	4EYX5	GA	10	5WZK9	5XAC9
	6mm	4.35mm	3.2mm	4EYX5	GA	10	5WZL0	5XAD0
M4 x 0.7	4mm	4.90mm	4.2mm	4EYX7	GA	10	5WZL1	5XAD1
	6mm	4.90mm	4.2mm	4EYX7	GA	10	5WZL2	5XAD2
	8mm	4.90mm	4.2mm	4EYX7	GA	10	5WZL3	5XAD3
	4mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAL1	4GDW8
	5mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAP7	—
	6mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAL3	4GDW9
	6mm	5.325mm	4.2mm	4EYX7	Heli-Coil	12	4EYL2	—
	8mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAL5	4GDX1
	10mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAL7	4GDX2
	12mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAL9	4GDX3
M5 x 0.8	5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAP9	4GDY1
	7.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAR2	4GDY2
	7.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	12	4EYL3	—
	10mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAR4	4GDY3
	12.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAR6	4GDY4
	15mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAR8	4GDY5
	5mm	6.80mm	5.2mm	4EYX9	GA	10	5WZL4	5XAD4
	7.5mm	6.80mm	5.2mm	4EYX9	GA	10	5WZL5	5XAD5
	10mm	6.80mm	5.2mm	4EYX9	GA	10	5WZL6	5XAD6

CONTINUED

CONTINUED

Helical Wire Thread Inserts HeliCoil® GA GRAINGER APPROVED

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
M6 x 1	6mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAU6	4GDY9
	9mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAU8	4GDZ1
	12mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAV1	4GDZ2
	15mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAV3	4GDZ3
	18mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAV5	4GDZ4
	9mm	7.68mm	6.25mm	4EYY2	Heli-Coil	12	4EYL4	—
	6mm	7.95mm	6.3mm	4EYY2	GA	10	5WZL7	5XAD7
	9mm	7.95mm	6.3mm	4EYY2	GA	10	5WZL8	5XAD8
	12mm	7.95mm	6.3mm	4EYY2	GA	10	5WZL9	5XAD9
M7 x 1	14mm	8.925mm	7.25mm	4EYY4	Heli-Coil	100	4DAX5	—
	17.5mm	8.925mm	7.25mm	4EYY4	Heli-Coil	100	4DAX7	—
M8 x 1.25	8mm	10.075mm	8.3mm	4EYY8	Heli-Coil	100	4DAY1	—
	12mm	10.075mm	8.3mm	4EYY8	Heli-Coil	100	4DAY4	—
	20mm	10.075mm	8.3mm	4EYY8	Heli-Coil	100	4DAY7	—
	24mm	10.075mm	8.3mm	4EYY8	Heli-Coil	100	4DAZ1	—
	12mm	10.08mm	8.3mm	4EYY8	Heli-Coil	12	4EYL6	—
	8mm	10.35mm	8.3mm	4EYY7	GA	10	5WZN3	5XAE3
	12mm	10.35mm	8.3mm	4EYY7	GA	10	5WZN4	5XAE4
	16mm	10.35mm	8.3mm	4EYY7	GA	10	5WZN5	5XAE5
M10 x 1.5	25mm	12.225mm	10.5mm	4EYV8	Heli-Coil	100	—	4GDT2
	30mm	12.225mm	10.5mm	4EYV8	Heli-Coil	100	—	4GDT3
	15mm	12.23mm	10.5mm	4EYV8	Heli-Coil	100	4DAE6	—
	15mm	12.23mm	10.5mm	4EYV8	Heli-Coil	12	4EYK1	—
	10mm	12.50mm	10.4mm	4EYV8	GA	10	5WZP1	5XAE8
	15mm	12.50mm	10.4mm	4EYV8	GA	10	5WZP2	5XAE9
	20mm	12.50mm	10.4mm	4EYV8	GA	10	5WZP3	5XAF0
M12 x 1.75	18mm	14.65mm	12.5mm	4EYW5	Heli-Coil	100	4DAE7	—
	18mm	14.65mm	12.5mm	4EYW5	Heli-Coil	6	4EYK4	—
	30mm	14.65mm	12.5mm	4EYW5	Heli-Coil	100	—	4GDT4
	12mm	15.00mm	12.3mm	4EYW5	GA	5	5WZP8	5XAF2
	12mm	15.00mm	12.3mm	4EYW5	GA	5	—	5XAF3
	16mm	15.00mm	12.3mm	4EYW5	GA	5	—	5XAF4
M12 x 1.50	18mm	15.00mm	12.5mm	4EYW4	GA	5	5WZP9	—
M12 x 1.75	24mm	15.00mm	12.3mm	4EYW5	GA	5	5WZR0	—
M14 x 2	21mm	17mm	14.5mm	4EYW7	Heli-Coil	6	4EYK6	—
	21mm	17mm	14.5mm	4EYW7	Heli-Coil	100	—	4GDT5
	28mm	17mm	14.5mm	4EYW7	Heli-Coil	100	—	4GDT6
	14mm	17.35mm	14.5mm	4EYW7	GA	5	5WZR2	5XAF6
	21mm	17.35mm	14.5mm	4EYW7	GA	5	5WZR3	5XAF7
M16 x 2	16mm	19.25mm	16.5mm	4EYW8	Heli-Coil	100	—	4GDT7
	24mm	19.25mm	16.5mm	4EYW8	Heli-Coil	100	4DAE8	4GDT8
	24mm	19.25mm	16.5mm	4EYW8	Heli-Coil	6	4EYK7	—
	32mm	19.25mm	16.5mm	4EYW8	Heli-Coil	100	—	4GDT9
	16mm	19.60mm	16.5mm	4EYW8	GA	1	5WZR4	—
	16mm	19.60mm	16.5mm	4EYW7	GA	1	—	5XAF8
	24mm	19.60mm	16.5mm	4EYW8	GA	1	5WZR5	—
	24mm	19.60mm	16.5mm	4EYW7	GA	1	—	5XAF9
M18 x 2.5	27mm	21.65mm	18.75mm	4EYW9	Heli-Coil	6	4EYK8	—
	18mm	22.00mm	18-8mm	4EYW9	GA	1	5WZR6	—
	18mm	22.00mm	18-8mm	4EYW8	GA	1	—	5XAG0
	27mm	22.00mm	18-8mm	4EYW9	GA	1	5WZR7	—
	27mm	22.00mm	18-8mm	4EYW8	GA	1	—	5XAG1
M20 x 2.5	30mm	23.98mm	20.75mm	4EYX2	Heli-Coil	4	4EYK9	—
	20mm	24.40mm	20.8mm	4EYX2	GA	1	5WZR8	5XAG2
	30mm	24.40mm	20.8mm	4EYX2	GA	1	5WZR9	5XAG3
M24 x 3	36mm	29.00mm	25.0mm	4EYX3	GA	1	5WZT0	5XAG4
304 Stainless Steel, Dry Film Lubricant								
M2.5 x 0.45	2.5mm	3.45mm	#37	4EYX1	Heli-Coil	100	4DAF9	—
	3.8mm	3.45mm	#37	4EYX1	Heli-Coil	100	4DAG1	4GDU6
	5mm	3.45mm	#37	4EYX1	Heli-Coil	100	4DAG2	4GDU7
	6.3mm	3.45mm	#37	4EYX1	Heli-Coil	100	—	4GDU8

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
M3 x 0.5	3mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ9	—
	4.5mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAK2	—
	6mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAK4	—
M3.5 x 0.5	3.5mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDU9
	5.3mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDV1
	7mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDV2
M4 x 0.7	4mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAN6	—
	6mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAN8	4GDX5
	8mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	—	4GDX6
M5 x 0.8	5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAT9	—
	7.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAU2	—
M6 x 1	6mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAW8	4GDZ5
	9mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAX1	4GDZ6
	12mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAX3	4GDZ7
M8 x 1.25	8mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	4DCC1	—
Nitronic 60								
M2.5 x 0.45	2.5mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	4DAF7	—
	3.8mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	4DAG3	—
	5mm	3.45mm	2.55mm	4EYX1	Heli-Coil	100	4DAF8	—
M3 x 0.5	3mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAK6	—
	4.5mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ3	—
	6mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAK8	4GDW7
	7.5mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ5	—
	9mm	4.075mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ7	—
M3.5 x 0.5	3.5mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDV3
	5.3mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDV4
	7mm	4.675mm	3.7mm	4EYX4	Heli-Coil	100	—	4GDV5
M4 x 0.7	4mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAP1	4GDX7
	6mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAP3	4GDX8
	8mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAP5	4GDX9
	10mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAN2	—
	12mm	5.325mm	4.2mm	4EYX7	Heli-Coil	100	4DAN4	—
M5 x 0.8	5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAT1	4GDY6
	7.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAU4	4GDY7
	10mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	4DAT3	4GDY8
	12.5mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	—	4DAT5
	15mm	6.525mm	5.2mm	4EYX9	Heli-Coil	100	—	4DAT7
M6 x 1	6mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAV7	4GDZ8
	9mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAV9	—
	12mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	4DAW2	4GEA1
	15mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	—	4DAW4
	18mm	7.675mm	6.25mm	4EYY2	Heli-Coil	100	—	4DAW6
M8 x 1.25	8mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	—	4DAZ4
	12mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	—	4DAZ7
	16mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	—	4DCA1
	20mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	—	4DCA4
	24mm	10.075mm	8.3mm	4EYY7	Heli-Coil	100	—	4DCA7
Sav-A-Thread Metric								
12L14 Steel, Black Oxide Finsh								
M14 x 1.25	0.307"	0.667"		—	Heli-Coil	6	4CZE1	—
	0.422"	0.667"		—	Heli-Coil	6	4CZD9	—
	0.669"	0.667"		—	Heli-Coil	6	4CZD8	—
Spark Plug Metric								
304 Stainless Steel								
M10 x 1	0.500"	0.494"	—	—	Heli-Coil	6	4CZD7	—
	0.472"	0.688"	—	—	Heli-Coil	6	4CZE2	—
M14 x 1.25	0.500"	0.688"	—	—	Heli-Coil	6	4CZE3	—
	0.750"	0.688"	—	—	Heli-Coil	6	4CZE4	—
M18 x 1.5	0.500"	0.895"	—	—	Heli-Coil	6	4CZE5	—

HeliCoil® RECOIL

Screw Thread Insert Taps

STI taps are oversized from standard taps to allow for the wire insert once installed. High-speed, steel intermediate (plug) lead taps cut threads to a precise dimension.

Note: Additional sizes are available; go to Grainger.com® and search for "Screw Thread Insert Taps".

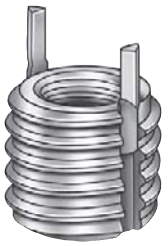


No. 2G960

Size	Pitch	Thread Length	Shank Dia.	Overall Length	Pitch Dia. Limits	Mfr. Model	Brand	Item No.
UNC								
#4	40	11/16"	0.141"	2"	H1	04CPB	Heli-Coil	4EYT8
#6	32	7/8"	0.194"	2 3/8"	H2	06CPB	Heli-Coil	4EYN1
#8	32	15/16"	0.220"	2 3/8"	H2	2CPB	Heli-Coil	4EYN3
1/4"	20	1 1/8"	0.318"	2 23/32"	H2	4CPB	Heli-Coil	4EYN9
	20	1 1/8"	0.318"	2 23/32"	H3	43045	Recoil	2G948
5/16"	18	1 1/4"	0.381"	2 15/16"	H3	5CPB	Heli-Coil	4EYU1
	18	1 1/4"	0.381"	2 15/16"	H3	43055	Recoil	2G950
3/8"	16	1 21/32"	0.367"	3 3/8"	H3	6CPB	Heli-Coil	4EYT4
	16	1 21/32"	0.367"	3 3/32"	H3	43065	Recoil	2G952
7/16"	14	1 21/32"	0.429"	3 13/32"	H3	7CPB	Heli-Coil	4EYU7
1/2"	13	1 13/16"	0.480"	3 13/16"	H3	8CPB	Heli-Coil	4EYN5
	13	1 13/16"	0.480"	3 13/32"	H3	43085	Recoil	2G954
5/8"	0.50mm	2"	0.542"	4 1/4"	H3	43105	Recoil	2G956
	0.50mm	2"	0.590"	4 1/4"	H3	8187-10	Heli-Coil	4EYU3
3/4"	0.60mm	2 7/32"	0.590"	4 11/16"	H3	43125	Recoil	2G958
	0.60mm	2 7/32"	0.697"	4 11/16"	H3	8187-12	Heli-Coil	4EYT1
7/8"	0.70mm	2 1/2"	0.800"	5 1/8"	H3	8187-14	Heli-Coil	4EYV1
1"	0.80mm	2 13/16"	1.021"	5 3/4"	H4	8187-16	Heli-Coil	4EYR7
1 1/4"	1.00mm	3"	1.233"	6 3/8"	H4	8187-20	Heli-Coil	4EYP8
1 3/8"	1.25mm	3 3/16"	1.305"	6 11/16"	H6	8187-22	Heli-Coil	4EYR6

Size	Pitch	Thread Length	Shank Dia.	Overall Length	Pitch Dia. Limits	Mfr. Model	Brand	Item No.
UNF								
#10	32	1"	0.255"	2 1/2"	H2	3FPB	Heli-Coil	4EYP4
1/4"	28	1 1/8"	0.318"	2 23/32"	H2	4FPB	Heli-Coil	4EYP1
Metric Coarse								
M4	0.70mm	22.22mm	4.93mm	60.32mm	D6	2087-4	Heli-Coil	4EYX8
M5	0.80mm	25.40mm	6.48mm	64.00mm	D7	2087-5	Heli-Coil	4EYY1
M6	1.00mm	21.83mm	8.00mm	71.83mm	D3	45065	Recoil	2G960
	1.00mm	28.58mm	8.07mm	69.06mm	D3	4687-6	Heli-Coil	4EYY2
M8	1.25mm	23.81mm	10mm	79.77mm	D9	45085	Recoil	2G962
	1.25mm	31.75mm	9.68mm	74.61mm	D9	2087-8	Heli-Coil	4EYY8
M12	1.75mm	30.16mm	11.2mm	94.85mm	D11	45125	Recoil	2G966
	1.75mm	42.07mm	10.90mm	91.28mm	D11	4687-12	Heli-Coil	4EYW5
M14	2.00mm	32.00mm	12.50mm	102.00mm	D3	45145	Recoil	5WA95
	2.00mm	46.04mm	13.77mm	102.39mm	H3	4687-14	Heli-Coil	4EYW7
M16	2.00mm	36.00mm	14.00mm	112.00mm	D3	45165	Recoil	5WA97
	2.00mm	50.80mm	14.99mm	107.95mm	H3	4687-16	Heli-Coil	4EYW8
M20	2.50mm	45.00mm	19.00mm	130.00mm	D3	45205	Recoil	5WB11
	2.50mm	56.36mm	19.00mm	124.62mm	H4	4687-20	Heli-Coil	4EYX2
M24	3.00mm	65.09mm	22.76mm	138.11mm	D4	4687-24	Heli-Coil	4EYX3
Metric Fine								
M14	1.50mm	46.04mm	12.19mm	96.84mm	H3	5476-14	Heli-Coil	4EYW6
	1.50mm	75.00mm	12.50mm	102.00mm	D3	47145	Recoil	5WA93

Length is installed length.



2 Locking Key



4 Locking Key

Key Locking Thread Inserts

- For metal applications; not recommended for cast iron or brittle material

Repair damaged threads with a positive mechanical lock, preventing rotational spinout from vibration or torque.

Note: Units measured in inches have an internal thread class of 3B and an external thread class of 2A. Metric units have an internal thread class of 6H and an external thread class of 6G.

Stainless steel and key locking thread insert installation tools are available on Grainger.com®; search for "stainless steel key locking thread inserts" or "key locking thread installation tools".

Internal Thread Size	External Thread Size	L	Drill Size	Installation Tool No.	Item No.	Pkg. Qty.
Thick Wall						
2 Locking Keys						
10-24	3/8-16	0.310"	Q	5XA40	**5WY70**	10
10-32	3/8-16	0.310"	Q	5XA40	**5WY71**	10
1/4-20	7/16-14	0.370"	X	5XA41	**5WY72**	10
1/4-28	7/16-14	0.370"	X	5XA41	**5WY73**	10
4 Locking Keys						
8-32	5/16-18	0.310"	I	5XA39	**5WY69**	10
5/16-18	1/2-13	0.430"	29/64"	5XA42	**5WY74**	10
5/16-24	1/2-13	0.430"	29/64"	5XA42	**5WY75**	10
3/8-16	9/16-12	0.500"	33/64"	5XA43	**5WY76**	10
3/8-24	9/16-12	0.500"	33/64"	5XA43	**5WY77**	10
7/16-14	5/8-11	0.620"	37/64"	5XA43	**5WY78**	10
7/16-20	5/8-11	0.620"	37/64"	5XA43	**5WY79**	10
1/2-13	3/4-16	0.620"	45/64"	5XA44	**5WY80**	5
1/2-20	3/4-16	0.620"	45/64"	5XA44	**5WY81**	5
9/16-12	3/4-16	0.810"	45/64"	5XA44	**5WY82**	5
9/16-18	3/4-16	0.810"	45/64"	5XA44	**5WY83**	5
5/8-11	7/8-14	0.870"	53/64"	5XA45	**5WY84**	5
5/8-18	7/8-14	0.870"	53/64"	5XA45	**5WY85**	5
3/4-10	1 1/8-12	1.12"	1 1/16"	5XA46	**5WY86**	1
3/4-16	1 1/8-12	1.12"	1 1/16"	5XA46	**5WY87**	1
7/8-9	1 1/4-12	1.25"	1 3/16"	5XA46	**5WY88**	1
7/8-14	1 1/4-12	1.25"	1 3/16"	5XA46	**5WY89**	1
1-8	1 3/8-12	1.37"	1 5/16"	5XA47	**5WY90**	1
1-12	1 3/8-12	1.37"	1 5/16"	5XA47	**5WY91**	1
1-14	1 3/8-12	1.37"	1 5/16"	5XA47	**5WY92**	1
Thin Wall						
2 Locking Keys						
10-24	5/16-18	0.310"	I	5XA40	**5WY93**	10
10-32	5/16-18	0.310"	I	5XA40	**5WY94**	10
1/4-20	3/8-16	0.370"	Q	5XA41	**5WY95**	10
1/4-28	3/8-16	0.370"	Q	5XA41	**5WY96**	10
M5 x 0.8mm	M8 x 1.25	8mm	6.9mm	5XA40	**5XA31**	5
M6 x 1	M10 x 1.25	10mm	8.8mm	5XA41	**5XA32**	5
4 Locking Keys						
5/16-18	7/16-14	0.430"	X	5XA42	**5WY97**	10
5/16-24	7/16-14	0.430"	X	5XA42	**5WY98**	10
3/8-16	1/2-13	0.500"	29/64"	5XA43	**5WY99**	10
3/8-24	1/2-13	0.500"	29/64"	5XA43	**5XA10**	10
7/16-14	9/16-12	0.620"	33/64"	5XA43	**5XA11**	10
7/16-20	9/16-12	0.620"	33/64"	5XA43	**5XA12**	10
1/2-13	5/8-11	0.620"	37/64"	5XA44	**5XA13**	5
1/2-20	5/8-11	0.620"	37/64"	5XA44	**5XA14**	5
M8 x 1	M12 x 1.25	12mm	10.80mm	5XA42	**5XA33**	5
M8 x 1.25	M12 x 1.25mm	12mm	10.8mm	5XA42	**5XA34**	5
M10 x 1.25	M14 x 1.50	14mm	12.80mm	5XA43	**5XA35**	5
M10 x 1.5	M14 x 1.5	14mm	12.8mm	5XA43	**5XA36**	5
M12 x 1.25	M16 x 1.50	16mm	14.75mm	5XA44	**5XA37**	5
M12 x 1.75	M16 x 1.5	16mm	14.75mm	5XA44	**5XA38**	5



Nut Insert



Knurled Nut Insert

Nut Inserts

Eliminate the need for tapping, welding, and brazing. Upper sleeve and base has both internal and external threads. Install in predrilled or punched holes in metal or rigid material of at least 3/32".

Note: Aluminum available; on Grainger.com®, search for "aluminum nut inserts".

Knurled Nut Inserts—For blind or limited clearance.

Thread Size	Head Dia.	Body Dia.	Item No.	Pkg. Qty.
Knurled Nut Inserts, Stainless Steel				
10-32	0.306"	0.281"	**4CUF6**	10
1/4-20	0.400"	0.375"	**4CUF7**	10
5/16-18	0.528"	0.500"	**4CUF8**	10
3/8-16	0.588"	0.562"	**4CUF9**	10
M4 x 0.7	6.830"	6.340"	**4CUG1**	10
Knurled Nut Inserts, Yellow Cadmium Steel				
4-40	0.211"	0.188"	**4CUD6**	25
6-32	0.240"	0.219"	**4CUD7**	25
8-32	0.269"	0.250"	**4CUD8**	25
10-24	0.306"	0.281"	**4CUD9**	25
1/4-20	0.400"	0.375"	**4CUE2**	25
5/16-18	0.528"	0.500"	**4CUE3**	25
3/8-16	0.588"	0.562"	**4CUE4**	10
1/2-13	0.800"	0.749"	**4CUE5**	25
M3 x 0.5	5.360mm	4.760mm	**4CUE6**	25
M4 x 0.7	6.830mm	6.340mm	**4CUE7**	25
M5 x 0.8	7.770mm	7.120mm	**4CUE8**	25
M6 x 1.0	10.160mm	9.510mm	**4CUE9**	10
M8 x 1.25	13.410mm	12.690mm	**4CUF1**	10
M10 x 1.5	14.940mm	14.260mm	**4CUF2**	10
Nut Inserts, Zinc Steel				
6-32	0.250"	0.215"	**5NNT0**	100
8-32	0.282"	0.246"	**5NNF4**	100
10-24	0.314"	0.277"	**5NNF1**	100
10-32	0.314"	0.277"	**5NNF2**	100
1/4-20	0.408"	0.372"	**5NNT2**	50
5/16-18	0.537"	0.496"	**5NNT1**	25
3/8-16	0.600"	0.559"	**5NNF3**	25



Well-Nut®



Jack Nut®

STANLEY Engineered Fastening

Threaded Inserts

Jack Nut®—For use in thin, soft, or brittle materials. Can be set with manual or pneumatic tools. Steel material. Removable.

Well-Nut®—Flanged bushings have a brass machine nut molded on to 1 end. Seal against moisture and gases and help prevent galvanic corrosion. For isolating against shock-and-vibration and electrical conductivity. Rubber, chloroprene material. Removable.

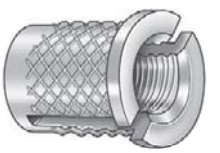
Thread Size	Well-Nut® Head Dia.	Well-Nut® Body Dia.	Well-Nut® Grip Range	Well-Nut® Item No.	Well-Nut® Pkg. Qty.	Jack Nut® Head Dia.	Jack Nut® Body Dia.	Jack Nut® Grip Range	Jack Nut® Item No.	Jack Nut® Pkg. Qty.
6-32	0.452"	0.312"	0.015 to 0.156"	**3ZLV8**	25	0.469"	0.308"	0.015 to 0.187"	**3ZLU6**	25
	0.554"	0.240"	0.375 to 0.512"	**3ZLV5**	25	0.469"	0.308"	0.187 to 0.375"	**3ZLU7**	25
8-32	0.438"	0.312"	0.015 to 0.156"	**3ZLV4**	25	—	—	—	—	—
10-24	—	—	—	—	—	0.531"	0.378"	0.015 to 0.187"	**3ZLU8**	25
	—	—	—	—	—	0.531"	0.378"	0.187 to 0.375"	**3ZLU9**	25
10-32	0.500"	0.377"	0.015 to 0.192"	**3ZLW3**	25	—	—	—	—	—
	0.562"	0.375"	0.312 to 0.591"	**3ZLW4**	10	—	—	—	—	—
	0.562"	0.377"	0.035 to 0.232"	**3ZLW1**	10	—	—	—	—	—
1/4-20	0.630"	0.500"	0.015 to 0.157"	**3ZLW2**	10	0.625"	0.438"	0.015 to 0.187"	**3ZLV1**	25
	0.635"	0.500"	0.250 to 0.457"	**3ZLV9**	10	—	—	—	—	—
	0.740"	0.500"	0.031 to 0.187"	**3ZLV6**	10	—	—	—	—	—
5/16-18	0.875"	0.620"	0.015 to 0.156"	**3ZLV7**	5	—	—	—	—	—
3/8-16	1.162"	0.750"	0.015 to 0.437"	**3ZLV3**	5	—	—	—	—	—



Diamond-Knurled, Flush



Diamond-Knurled, Flanged



Reverse Slot

Press Inserts

- Use in plastic

Note: Stainless steel are available; on Grainger.com®, search for "stainless steel press inserts."

Diamond-Knurled—Inserts are installed cold, eliminating the need to chase threads. For blind and through holes; install with a hammer or arbor press.

Reverse Slot—Reverse slot puts head on the back side of the part for greater pull-out resistance. Simply drill or mold hole and press into place.

Internal Thread Size	Length	Drill Size	Item No.	Pkg. Qty.
Diamond-Knurled, Flanged				
2-56	3/32"	1/8"	**4ZU29**	50
4-40	3/8"	7/16"	**4ZU31**	50
6-32	1/4"	9/16"	**4ZU33**	50
8-32	5/16"	7/32"	**4ZU35**	25
10-32	3/8"	1/4"	**4ZU37**	25
1/4-20	1/2"	5/16"	**4ZU39**	25
5/16-18	9/16"	3/8"	**4ZU41**	10
3/8-16	5/8"	7/16"	**4ZU42**	10
Diamond-Knurled, Flush				
0-80	1/8"	3/32"	**4ZE96**	50
2-56	3/32"	1/8"	**4ZE97**	50
4-40	3/16"	9/32"	**4ZE99**	50
6-32	1/4"	3/16"	**4ZU11**	50
8-32	5/16"	7/32"	**4ZU13**	50
10-24	3/8"	1/4"	**4ZU17**	25

Internal Thread Size	Length	Drill Size	Item No.	Pkg. Qty.
10-32	3/8"	1/4"	**4ZU15**	25
1/4-20	1/2"	5/16"	**4ZU18**	25
5/16-18	9/16"	3/8"	**4ZU20**	10
3/8-16	5/8"	7/16"	**4ZU22**	10
M3 x 0.5	3/16"	5/32"	**4ZU25**	50
M4 x 0.7	5/16"	7/32"	**4ZU26**	50
M5 x 0.8	3/8"	1/4"	**4ZU27**	50
M6 x 1	1/2"	5/16"	**4ZU28**	25
Reverse Slot				
2-56	3/16"	1/8"	**1GUC5**	50
4-40	3/16"	3/16"	**1GUC6**	50
6-32	1/4"	3/16"	**1GUC7**	50
8-32	5/16"	7/32"	**1GUC8**	50
10-32	3/8"	1/4"	**1GUC9**	25
1/4-20	1/2"	5/16"	**1GUD1**	25

Knife Thread Inserts

- Brass
- Use with hardwoods

External knife threads with slotted drive hold firm without crushing.

Note: Stainless steel knife thread inserts are available on Grainger.com®; search for "knife thread inserts."



Internal Thread Size	Length	Drill Size	Power Driver	Item No.	Pkg. Qty.
4-40	3/8"	1/4"	—	4ZU54	50
	3/8"	1/4"	—	4KXP3	250
6-32	3/8"	1/4"	4ZE51	4ZU55	50
	3/8"	1/4"	4ZE51	4KXP4	250
8-32	3/8"	1/4"	4ZE52	4ZU56	50
	3/8"	1/4"	4ZE52	4KXP5	250
10-24	1/2"	3/8"	4ZE53	4ZU58	25
	1/2"	3/8"	4ZE53	4KXP6	250
10-32	1/2"	3/8"	4ZE53	4ZU59	25
	1/2"	3/8"	4ZE53	4KXP7	250
1/4-20	1/2"	25/64"	4ZE54	4ZU61	25
	1/2"	3/8"	4ZE54	4KXP8	250
1/4-28	1/2"	3/8"	4ZE54	4ZU62	25
5/16-18	5/8"	1/2"	4ZE55	4ZU64	25
	5/8"	1/2"	4ZE55	4KXP9	100
5/16-24	5/8"	1/2"	4ZE55	4ZU65	25
3/8-16	5/8"	1/2"	4ZE56	4ZU66	25
	5/8"	1/2"	4ZE56	4KXR1	100
3/8-24	5/8"	1/2"	4ZE56	4ZU67	25
M4 x 0.7	3/8"	1/4"	4ZE52	4ZU69	10
M5 x 0.8	1/2"	3/8"	4ZE53	4ZU70	10
M6 x 1	1/2"	3/8"	4ZE54	4ZU71	10
M8 x 1.25	5/8"	1/2"	4ZE55	4ZU72	10

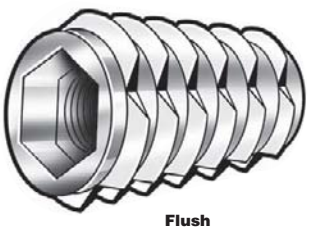
Thread Insert Power Drivers

Install thread inserts without engaging the threads. Drivers ensure inserts are installed at the proper depth.

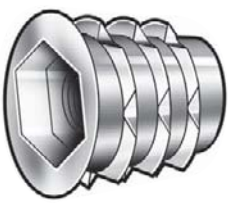


Use With Internal Thread Size	Item No.
1/4" Shank	
#6	4ZE51
#8, M4, and M5	4ZE52
#10	4ZE53
1/4" and M6	4ZE54
5/16" and M8	4ZE55
M4 Hex	4ZU82
M5 Hex	4ZU85
M6 Hex	4ZU86

Use With Internal Thread Size	Item No.
3/8" Shank	
3/8" and M10	4ZE56
7/16" and M12	4ZE57
1/2" and 9/16"	4ZE58
5/8" and M16	4ZE59
3/4"	4ZE60
M8 Hex	4ZY12
M10 Hex	4ZY13



Flush



Flanged

Hex Drive Thread Inserts

- Die cast zinc alloy
- Use with soft woods, composition board, and MDF
- Install with a standard hex key or power driver

Flush models are for installation on curves or below surfaces. Flanged models help control the insert depth. For knock-down furniture, shipping crates, and cabinetry.

Internal Thread Size	Length	Drill Size	Hex Key Size	Power Driver	Item No.	Pkg. Qty.
Flush						
8-32	25/64"	17/64"	M4	4ZU82	4ZU75	100
10-24	33/64"	9/32"	M5	4ZU85	4ZU76	50
10-32	33/64"	9/32"	M5	4ZU85	4ZU77	50
1/4-20	33/64"	23/64"	M6	4ZU86	4ZU78	100
	25/32"	23/64"	M6	4ZU86	4ZU79	100
5/16-18	25/32"	7/16"	M8	4ZY12	4ZU83	50
	63/64"	7/16"	M8	4ZY12	4ZU84	50
M6 x 1.0	33/64"	23/64"	M6	4ZU86	4ZU73	50
	25/32"	23/64"	M6	4ZU86	4ZU74	50
M8 x 1.25	33/64"	7/16"	M8	4ZY12	4ZU80	25
	25/32"	7/16"	M8	4ZY12	4ZU81	25
Flanged						
8-32	25/64"	17/64"	M4	4ZU82	4ZU89	100
10-24	7/16"	9/32"	M5	4ZU85	4ZU90	50
	25/32"	9/32"	M5	4ZU85	4ZU91	50
10-32	7/16"	9/32"	M5	4ZU85	4ZU92	50
	33/64"	9/32"	M5	4ZU85	4ZU93	50
	25/32"	9/32"	M5	4ZU85	4ZU94	25
1/4-20	33/64"	23/64"	M6	4ZU86	4ZU95	100
	25/32"	23/64"	M6	4ZU86	4ZU96	100
	63/64"	23/64"	M6	4ZU86	4ZU97	50
3/8-16	33/64"	31/64"	M10	4ZY13	4ZU98	25
	63/64"	31/64"	M10	4ZY13	4ZU99	25
5/16-18	33/64"	7/16"	M8	4ZY12	4ZY14	50
	63/64"	7/16"	M8	4ZY12	4ZY15	25
M6 x 1.0	33/64"	23/64"	M6	4ZU86	4ZU87	50
	25/32"	23/64"	M6	4ZU86	4ZU88	50
M8 x 1.25	33/64"	7/16"	M8	4ZY12	4ZY10	25
	25/32"	7/16"	M8	4ZY12	4ZY11	25

Internal Thread Size	External Thread Size	Length	Wall Type	Drill Size	Power Driver	Item No.	Pkg. Qty.
4-40	10-32	1/4"	Heavy	5/32"	—	4ZY16	10
6-32	1/4-20	9/32"	Heavy	7	4ZE51	4ZB93	10
	M6 x 1	6.5mm	Heavy	5.1mm	4ZE51	4ZE61	5
8-32	5/16-18	13/64"	Heavy	F	4ZE52	4ZB94	10
	M8 x 1.25	7.5mm	Heavy	6.9mm	4ZE52	4ZE62	5
10-24	5/16-18	5/16"	Thin	I	4ZE53	4ZB81	10
	3/8-16	13/32"	Heavy	5/16"	4ZE53	4ZE14	10
	M8 x 1.25	7.5mm	Heavy	6.9mm	4ZE53	4ZE63	5
10-32	5/16-18	5/16"	Thin	I	4ZE53	4ZB82	10
	3/8-16	13/32"	Heavy	5/16"	4ZE53	4ZE15	10
	M8 x 1.25	7.5mm	Heavy	6.9mm	4ZE53	4ZE64	5
1/4-20	3/8-16	3/8"	Thin	Q	4ZE54	4ZB83	10
	7/16-14	7/16"	Heavy	23/64"	4ZE54	4ZE16	10
	M10 x 1.5	10.5mm	Heavy	8.6mm	4ZE54	4ZE65	5
	1/2-13	31/64"	Extra Heavy	27/64"	4ZE54	4ZE30	10
1/4-28	3/8-16	3/8"	Thin	Q	4ZE54	4ZB84	10
	7/16-14	7/16"	Heavy	23/64"	4ZE54	4ZE17	10
5/16-18	7/16-14	7/16"	Thin	X	4ZE55	4ZB85	10
	1/2-13	31/64"	Heavy	27/64"	4ZE55	4ZE18	10
	M12 x 1.75	12.5mm	Heavy	10.4mm	4ZE55	4ZE66	5
	9/16-12	33/64"	Extra Heavy	31/64"	4ZE55	4ZE31	10
5/16-24	7/16-14	7/16"	Thin	X	4ZE55	4ZB86	10
	1/2-13	31/64"	Heavy	27/64"	4ZE55	4ZE19	10
3/8-16	1/2-13	1/2"	Thin	29/64"	4ZE56	4ZB87	10
	9/16-12	33/64"	Heavy	31/64"	4ZE56	4ZE20	10
	M16 x 2	17mm	Heavy	14mm	4ZE56	4ZE67	5
	5/8-11	21/32"	Extra Heavy	17/32"	4ZE56	4ZE32	5
3/8-24	1/2-13	1/2"	Thin	29/64"	4ZE56	4ZB88	10
	9/16-12	33/64"	Heavy	31/64"	4ZE56	4ZE21	10
7/16-14	9/16-12	9/16"	Thin	33/64"	4ZE57	4ZB89	5
	5/8-11	21/32"	Heavy	17/32"	4ZE57	4ZE22	5
7/16-20	9/16-12	9/16"	Thin	33/64"	4ZE57	4ZB90	5
	5/8-11	21/32"	Heavy	17/32"	4ZE57	4ZE23	5
1/2-13	5/8-11	5/8"	Thin	37/64"	4ZE58	4ZB91	5
	3/4-10	21/32"	Heavy	21/32"	4ZE58	4ZE24	5
	3/4-10	1"	Heavy	21/32"	4ZE58	4ZE25	5
	M16 x 2	1mm	Heavy	14mm	4ZE58	4ZE68	5
	7/8-9	1 1/16"	Extra Heavy	49/64"	4ZE58	4ZE33	5
1/2-20	5/8-11	5/8"	Thin	37/64"	4ZE58	4ZB92	5
	3/4-10	21/32"	Heavy	21/32"	4ZE58	4ZE26	5
9/16-12	3/4-10	21/32"	Heavy	21/32"	4ZE58	4ZE27	5
9/16-18	3/4-10	21/32"	Heavy	21/32"	4ZE58	4ZE28	5
5/8-11	7/8-9	1 1/16"	Heavy	49/64"	4ZE59	4ZB95	5
	7/8-9	1 1/8"	Heavy	49/64"	4ZE59	4ZB96	5
	1-8	25/32"	Extra Heavy	7/8"	—	4ZE29	5

E-Z LOK

Self-Locking Thread Inserts

- Carbon steel

Adhesive on the external threads activates immediately after installation, locking the insert into place and sealing against liquids and gases to pressures of 6000 psi.



Note: Internal thread class for internal thread sizes is 2B; 6H for metric sizes. External thread class for external inch thread sizes is 2A; 6G for metric sizes.

303 stainless steel available; on Grainger.com®, search for "303 stainless steel self-locking thread inserts."

Internal Thread Size	External Thread Size	Length	Wall Type	Drill Size	Power Driver	Item No.	Pkg. Qty.
5/8-18	7/8-9	1 1/16"	Heavy	49/64"	4ZE59	4ZB97	5
3/4-10	1-8	25/32"	Heavy	7/8"	4ZE60	4ZB98	5
3/4-16	1-8	25/32"	Heavy	7/8"	4ZE60	4ZB99	5
7/8-9	1 1/4-7	1 1/8"	Heavy	1 7/64"	—	4ZE10	5
7/8-14	1 1/4-7	1 1/8"	Heavy	1 7/64"	—	4ZE11	5
1-8	1 3/8-12	1 1/4"	Heavy	1 9/32"	—	4ZE12	5
1-14	1 3/8-12	1 1/4"	Heavy	1 9/32"	—	4ZE13	5
M3 x 0.5	M6 x 1	6.5mm	Heavy	5.1mm	—	4ZE38	10
M4 x 0.7	M8 x 1.25	7.5mm	Heavy	6.9mm	4ZE52	4ZE39	10
M5 x 0.8	M8 x 1.25	7.5mm	Heavy	6.9mm	4ZE52	4ZE40	10
M6 x 1	M10 x 1.5	10.5mm	Heavy	8.6mm	4ZE54	4ZE41	10
	3/8-16	13/32"	Heavy	5/16"	4ZE54	4ZE74	10
M8 x 1.25	M12 x 1.75	12.5mm	Heavy	10.4mm	4ZE55	4ZE42	5
	1/2-13	31/64"	Heavy	27/64"	4ZE55	4ZE75	10
M10 x 1.25	9/16-12	33/64"	Heavy	31/64"	4ZE56	4ZE70	10
M10 x 1.5	M16 x 2	17mm	Heavy	14mm	4ZE56	4ZE34	5
	9/16-12	33/64"	Heavy	31/64"	4ZE56	4ZE69	10
M12 x 1.75	M16 x 2	17mm	Heavy	14mm	4ZE57	4ZE35	5
	3/4-10	21/32"	Heavy	21/32"	4ZE57	4ZE71	5
M14 x 2	7/8-9	1 1/16"	Heavy	49/64"	—	4ZE72	5
M16 x 2	M24 x 3	20mm	Heavy	21mm	4ZE59	4ZE36	5
	1-8	25/32"	Heavy	7/8"	4ZE59	4ZE73	5
M20 x 2.5	M36 x 4	30mm	Heavy	33mm	—	4ZE37	5



Threaded Rod



Double-End Threaded Stud w/Round Shank



Double-End Threaded Stud w/Square Shank



Internally Threaded Stud



Double-End Threaded Stud w/Hex Shank

Threaded Rod and Threaded Stud Information

Threaded Rods—Headless, fully threaded metal bars are available in stock lengths of 1 ft. to 12 ft. Cut to length with a hacksaw or power band saw.

Threaded Studs—Headless metal rods are precut to standard lengths as short as ¼". Can be threaded on 1 or both ends, or along entire length.

Fully Threaded Studs—Threaded the entire length with conventional threads. Commonly used with a nut on either end to clamp 2 parts together.

Double-End Studs—General term for studs with an unthreaded portion in the middle and threads on both ends. Also known as stud bolts.



Threaded Rods

- Right-hand thread

Fully threaded rods can be used for hanging, mounting, bracing, supporting, and fastening in plumbing, heating, electrical, construction, and fabrication applications.

Note: Additional lengths and materials are also available; go to Grainger.com® and search for "Threaded Rods".

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
304 Stainless Steel Plain Finish					
#2-56	—	21YN77	21YN68	21YN91	—
#3-48	—	21YN87	21YN98	21YP11	—
#4-40	—	21YP12	21YN60	21YN70	—
#5-40	—	21YP13	21YP14	—	—
#6-32	19NN60	19NN61	19NN62	19NN63	—
#8-32	19NN64	19NN65	19NN66	19NN67	—
#10-24	19NN68	19NN69	19NN70	19NN71	—
#10-32	19NN72	19NN73	19NN74	19NN75	—
¼"-20	10W656	10W657	4RDF8	4RDH8	19NN76
¼"-28	10W693	10W694	19NT30	19NT38	21YP22
5⁄16"-18	10W659	10W660	4RDG1	19NT39	10W661
5⁄16"-24	10W695	10W696	19NT31	19NT40	21YP23
3⁄8"-16	10W662	10W663	4RDG3	4RDJ3	10W664
3⁄8"-24	10W697	10W698	19NT32	19NT41	—
7⁄16"-14	10W665	10W666	4RDG5	19NT42	10W667
7⁄16"-20	10W699	10W701	19NT33	19NT43	—
½"-13	10W668	10W669	4RDG7	4RDJ7	10W670
½"-20	10W702	10W703	19NT34	19NT44	21YP24
9⁄16"-12	10W671	10W672	25DL54	10W673	10W674
5⁄8"-11	10W675	10W676	4RDG9	4RDJ9	10W677
5⁄8"-18	10W704	10W705	19NT35	10W706	21YN88
¾"-10	10W678	10W679	4RDH2	4RDK1	10W680
¾"-16	10W707	10W708	19NT36	19NT45	—
⅞"-9	10W681	10W682	4RDH4	19NT46	10W683
⅞"-14	10W709	10W710	19NT37	10W711	21YP26
1"-8	10W684	10W685	4RDH6	4RDK4	—
1"-8	—	—	—	—	10W686
1"-14	—	—	4RDH7	—	21YP03
1⅛"-7	—	—	25DL55	21YN95	21YN96
1¼"-7	19NN77	10W688	19NN78	19NT47	21YN97
1½"-6	19NN79	19NN80	19NN81	4RDK6	—
1¾"-5	21YP06	21YP09	—	21YP19	—
2"-4-1/2	21YP10	21YP20	—	21YP21	—
316 Stainless Steel Plain Finish					
#2-56	21YN67	21YN69	21YN82	21YN90	—
#4-40	—	21YN72	21YN66	21YN73	—
#6-32	19NN82	19NN83	19NN84	19NN85	—
#8-32	19NN86	19NN87	19NN88	19NN89	—
#10-24	19NN90	19NN91	19NN92	19NN93	—
#10-32	19NN94	19NN95	19NN96	19NN97	—
¼"-20	19NN98	19NN99	4RDK7	4RDL7	—
¼"-28	19NL69	19NL70	29DT92	19NL71	21YP28
5⁄16"-18	19NP01	19NP02	22RV35	19NT50	—
5⁄16"-24	19NL72	19NL73	29DT93	19NL74	21YP29
3⁄8"-16	19NP03	19NP04	22RV36	4RDL9	21YN63
3⁄8"-24	19NL75	19NL76	29DT94	19NL77	21YP30
½"-13	19NP05	19NL52	4RDL1	4RDN1	21YN62
½"-20	19NL78	19NL79	29DT96	19NL80	21YP31
9⁄16"-18	—	—	29DT97	—	—
5⁄8"-11	19NL53	19NL54	22RV37	4RDN2	21YN84
5⁄8"-18	19NL81	19NL82	29DT98	19NL83	21YP32

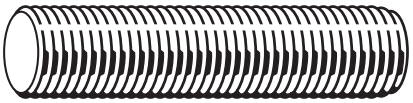
Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
¾"-10	19NL55	19NL56	4RDL3	4RDN3	—
¾"-16	19NL84	19NL85	29DT99	19NL86	—
⅞"-9	19NL57	19NL58	19NT48	4RDN4	21YP05
⅞"-9	—	—	4RDL4	—	—
⅞"-14	—	—	29DU01	—	—
1"-8	19NL59	19NL60	4RDL5	4RDN5	—
1⅛"-7	19NL61	10L830	19NL62	19NL63	21YP01
1¼"-7	10L833	19NL64	19NT49	19NL65	21YP07
1½"-6	10L836	19NL66	19NL67	19NL68	21YP08
2"-4-1/2	—	—	21YP04	—	—
B7 Steel Black Oxide Finish					
⅜"-16	—	—	—	10P719	—
⅝"-11	—	—	—	10P723	—
¾"-10	—	—	—	10P725	—
B7 Steel Plain Finish					
¼"-20	—	19NL87	4FHH8	4FHL4	4FHP6
¼"-28	—	—	—	—	4FHP7
5⁄16"-18	—	19NL88	4FHH9	4FHL5	4FHP8
5⁄16"-24	—	—	4FHJ1	—	4FHP9
⅜"-16	—	19NL89	4FHJ2	4FHL6	4FHR1
⅜"-24	—	—	4FHJ3	4FHL7	4FHR2
7⁄16"-14	—	19NL90	—	—	—
½"-13	—	19NM76	4FHJ4	4FHL8	4FHR3
½"-20	—	—	4FHJ5	—	4FHR4
9⁄16"-18	—	—	29DM87	—	—
⅝"-11	—	19NM77	4FHJ6	4FHL9	4FHR5
⅝"-18	—	—	4FHJ7	4FHN1	4FHR6
¾"-10	—	19NM78	4FHJ8	4FHN2	4FHR7
¾"-16	—	—	4FHJ9	4FHN3	4FHR8
⅞"-9	—	19NM79	4FHK1	4FHN4	4FHR9
⅞"-14	—	—	4RDP4	—	—
1"-8	—	19NM80	4FHK2	4FHN5	4FHT1
1"-12	—	—	29DM88	—	—
1"-14	—	—	4FHK3	4FHN6	—
1⅛"-7	—	—	4FHK4	4FHN7	4FHT2
1⅛"-8	—	—	—	4FHN8	—
1¼"-7	—	19NM83	4FHK5	4FHN9	4FHT3
1¼"-8	—	—	4FHK6	4FHP1	—
1¼"-12	—	—	4FHK7	—	—
1⅜"-6	—	10P682	29DM91	4FHP2	—
1⅜"-8	—	—	4FHK8	—	—
1⅜"-12	—	—	29DM89	—	—
1½"-6	—	19NM84	4FHK9	4FHP3	4FHT4
1½"-12	—	—	29DM90	4FHP4	—
1¾"-5	—	10P689	4FHL1	4FHP5	—
1¾"-8	—	—	4FHL2	—	—
2"-4-1/2	—	—	4FHL3	—	4FHT5
B7 Steel Zinc Yellow Finish					
¼"-20	19NM86	19NM87	4FHE6	4FHG1	4FHH1
¼"-28	—	—	4FHE7	—	—

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
5⁄16"-18	19NM88	19NM89	4FHE8	4FHG2	4FHH2
5⁄16"-24	—	—	4FHE9	—	—
3⁄8"-16	19NM90	19NM91	4FHF1	4FHG3	4FHH3
3⁄8"-24	—	—	4FHF2	—	4FHH4
7⁄16"-14	—	—	25DL43	—	—
7⁄16"-20	—	—	25DL47	—	—
½"-13	19NM92	19NM93	4FHF3	4FHG4	4FHH5
½"-20	—	—	4FHF4	4FHG5	—
9⁄16"-12	—	—	25DL44	—	—
9⁄16"-18	—	—	25DL48	—	—
5⁄8"-11	—	—	4FHF5	4FHG6	4FHH6
5⁄8"-18	—	—	4FHF6	4FHG7	—
¾"-10	19NM96	19NM97	4FHF7	4FHG8	4FHH7
¾"-16	—	—	4FHF8	—	—
⅞"-9	19NM98	—	25DL45	—	—
⅞"-14	—	—	25DL49	—	—
1"-8	19NN01	19NN02	4FHF9	4FHG9	4RDN8
1"-12	—	—	25DL50	—	—
1⅛"-7	—	10P708	19NN04	—	—
1⅛"-12	—	—	25DL51	—	—
1¼"-7	—	19NN06	19NN07	19NN08	—
1¼"-12	—	—	25DL52	—	—
1½"-6	—	—	25DL46	—	—
1½"-12	—	—	25DL53	—	—
Grade A Steel Hot Dipped Galvanized Finish					
⅜"-16	—	19NN42	19NT51	19NT52	19NN43
7⁄16"-14	—	—	25DL42	—	—
½"-13	—	19NN44	4FHC7	4FHD4	19NN45
9⁄16"-12	—	—	29DM69	—	—
⅝"-11	—	19NN46	4FHC8	4FHD5	19NN47
¾"-10	—	19NN48	4FHC9	4FHD6	19NN49
⅞"-9	—	19NN50	4FHD1	4FHD7	19NN51
1"-8	—	19NN52	4FHD2	4FHD8	19NN53
1⅛"-7	—	19NN54	29DM70	—	19NN55
1¼"-7	—	19NN56	4FHD3	4FHD9	19NN57
1⅜"-6	—	—	29DM71	—	—
1½"-6	—	10W636	19NN58	19NN59	10W639
1¾"-5	—	—	29DM72	—	—
2"-4-1/2	—	—	29DM73	—	—
Grade A Steel Plain Finish					
#2-56	—	19NP83	19NP84	19NP85	—
#3-48	—	—	19NP86	—	—
#4-40	—	19NP87	19NP88	19NP89	—
#5-40	—	19NP90	22P342	19NP91	—
#6-32	19NM36	19NP92	19NT25	19NP93	—
#8-32	19NM37	19NP94	4FGV7	19NP95	—
#10-24	19NM38	19NP96	19NT26	19NP97	22P351
#10-32	19NM39	19NR15	19NT27	29DM84	—
¼"-20	19NM40	4FGT4	4FGV8	4FGY5	19NM41
¼"-28	19NM70	19NT23	19NT28	4FGY6	22P375

CONTINUED

CONTINUED

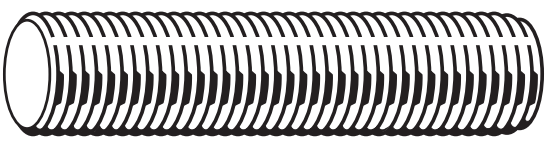
Threaded Rods



Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
Grade A Steel Plain Finish (Cont.)					
5/16"-18	19NM42	4FGT5	4FGV9	4FGY7	19NM43
5/16"-24	19NM71	4FGT6	4FGW1	4FGY8	22P376
3/8"-16	19NM44	4FGT7	4FGW2	4FGY9	19NM45
3/8"-24	19NM72	19NT24	19NT29	4FGZ1	19NR16
7/16"-14	19NR02	4FGT8	4FGW3	4FGZ2	—
7/16"-20	19NR17	19NR18	4FGW4	4FGZ3	19NR19
1/2"-13	19NM46	4FGT9	4FGW5	4FGZ4	19NM47
1/2"-20	19NM73	4FGU1	4FGW6	4FGZ5	19NM74
9/16"-12	19NR05	19NR06	4FGW7	19NR07	19NR09
9/16"-18	19NR20	22P382	22P383	4FGZ6	—
5/8"-11	19NM48	4FGU2	4FGW8	4FGZ7	19NM49
5/8"-18	19NM75	4FGU3	4FGW9	19NR21	19NN25
3/4"-10	19NM50	4FGU4	4FGX1	4FGZ8	19NM51
3/4"-16	19NN26	4FGU5	4FGX2	4FGZ9	19NN27
7/8"-9	19NM52	4FGU6	4FGX3	4FHA1	19NM54
7/8"-14	19NN28	19NR22	4FGX4	4FHA2	10W524
1"-8	19NM55	4FGU7	4FGX5	4FHA3	19NM57
1"-12	19NN29	22P388	19NR23	—	19NN30
1 1/8"-7	19NM58	4FGU9	4FGX7	22P368	10P650
1 1/8"-12	19NN31	4FGV1	4FGX8	22P390	19NN32
1 1/4"-7	19NM60	4FGV2	4FGX9	4FHA5	19NM62
1 1/4"-12	19NN33	4FGV3	4FGY1	4FHA6	19NN34
1 3/8"-6	19NM63	19NR12	—	19NR14	10P656
1 3/8"-12	10W533	10W534	10W535	10W536	10W537
1 1/2"-6	19NM65	4FGV4	4FGY2	4FHA7	19NM67
1 1/2"-12	19NN35	4FGV5	4FGY3	19NN36	10W542
1 3/4"-5	10P660	22P372	22P373	4FHA8	10P663
1 3/4"-12	22P391	22P392	22P393	19NN37	10W547
2"-4-1/2	19NM68	4FGV6	4FGY4	19NM69	10P667
2"-12	19NN38	19NN39	19NN40	19NN41	—

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
Grade A Steel Zinc Plated Finish					
#2-56	—	—	29DM75	29DM76	—
#4-40	—	19NR24	19NR25	29DM78	—
#5-40	—	19NR26	19NR27	29DM79	—
#6-32	29DM80	19NR28	19NT03	19NR29	—
#8-32	29DM81	19NR30	19NT04	19NR31	—
#10-24	19NL91	19NR32	19NT05	19NR33	—
#10-32	19NL92	19NR44	19NT06	29DM85	—
1/4"-20	19NL93	4FGH4	4FGK3	4FGN6	19NL94
1/4"-28	19NM22	19NR94	19NT07	19NT17	—
5/16"-18	19NL95	4FGH5	4FGK4	4FGN7	19NL96
5/16"-24	19NM23	19NR95	19NT08	19NT18	22P443
3/8"-16	19NL97	4FGH6	4FGK5	4FGN8	19NL98
3/8"-24	19NM24	19NR96	19NT09	19NT19	19NR46
7/16"-14	29DM83	4FGH7	4FGK6	4FGN9	—
7/16"-20	19NR47	19NR97	19NT10	19NT20	22P446
1/2"-13	19NL99	4FGH8	4FGK7	4FGP1	19NM01
1/2"-20	19NM25	4FGH9	4FGK8	4FGP2	19NR49
9/16"-12	19NR37	4FGJ1	4FGK9	4FGP3	22P428
9/16"-18	19NR50	19NR98	19NT11	19NR51	—
5/8"-11	19NM02	4FGJ2	4FGL1	4FGP4	19NM03
5/8"-18	19NM26	19NR99	19NT12	19NT21	19NR53
3/4"-10	19NM04	4FGJ3	4FGL2	4FGP5	19NM05
3/4"-16	19NM27	19NT01	19NT13	19NT22	22P454
7/8"-9	19NM06	4FGJ4	4FGL3	4FGP6	19NM07
7/8"-14	19NM28	22P455	19NT14	4FGP7	22P456
1"-8	19NM08	4FGJ5	4FGL4	4FGP8	19NM10
1"-12	19NM29	19NR54	19NR55	—	22P459
1 1/8"-7	19NM11	4FGJ7	19NR40	4FGP9	19NM12
1 1/8"-12	19NM30	19NR56	22P462	22P463	22P464

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
1 1/4"-7	19NM13	4FGJ8	4FGL5	4FGR1	19NM15
1 1/4"-12	19NM31	19NT02	19NT15	4RDE9	22P465
1 3/8"-6	19NM16	4FGJ9	19NR42	22P434	10P594
1 3/8"-12	19NM32	—	29DM86	19NM33	22P466
1 1/2"-6	19NM17	4FGK1	4FGL6	4FGR2	19NM18
1 1/2"-12	19NM34	19NR57	19NT16	19NM35	—
1 3/4"-5	10P597	4FGK2	4FGL7	10P601	10P602
1 3/4"-12	10P623	—	—	10P624	22P468
2"-4-1/2	19NM19	19NM20	19NM21	10P606	10P607
Low Carbon Steel Hot Dipped Galvanized Finish					
1/2"-13	—	—	—	—	10W623
3/4"-10	—	—	—	—	10W627
Low Carbon Steel Plain Finish					
1"-14	10W525	4FGU8	4FGX6	4FHA4	10W526
Low Carbon Steel Zinc Plated Finish					
5/16"-18	10P573	—	—	—	—
3/8"-16	—	—	—	4FGR4	10P576
1/2"-13	10P577	—	—	—	10P578
3/4"-10	—	—	—	—	10P582
1"-14	10P616	4FGJ6	4RDD6	4RDE8	22P460
T6061 Aluminum Plain Finish					
#6-32	—	—	10P776	10P777	—
#10-24	—	—	10P778	10P779	—
#10-32	—	—	10P780	10P781	—
1/4"-20	—	—	10P782	10P783	—
5/16"-18	—	—	10P784	10P785	—
3/8"-16	—	—	10P786	10P787	—
1/2"-13	—	—	10P788	10P789	—
5/8"-11	—	—	10P790	10P791	—
3/4"-10	—	—	10P792	10P793	—



Nylon Fully Threaded Rods

- Class 2A to 2B threads
- Temp. range: -40° to 185°F
- Off-white color

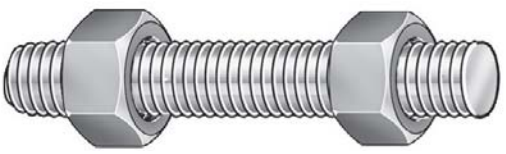
Meet IFI standards.

Note: Metric and black nylon fully threaded rods are also available; on Grainger.com®, search for "black nylon fully threaded rods."

Dia./Thread Size	2 ft. Length Item No.	4 ft. Length Item No.	6 ft. Length Item No.	8 ft. Length Item No.
6/6 Nylon Plain Finish				
#4-40	2KA48	—	—	—
#6-32	—	2KA90	—	2KB66
#8-32	2KA54	—	—	—
#10-24	2KA57	—	—	—
#10-32	2KA60	—	—	—
1/4"-20	2KA63	2KB12	2KB48	2KB74
5/16"-18	2KA66	2KB15	—	2KB76
3/8"-16	2KA69	2KB18	2KB52	2KB78
1/2"-13	2KA72	2KB21	2KB54	2KB80
5/8"-11	—	—	2KB56	2KB82
3/4"-10	—	2KB27	2KB58	2KB84
7/8"-9	—	2KB30	—	—
1"-8	—	2KB33	—	2KB88

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!



MAUDLIN PRODUCTS
MW Industries, Inc.

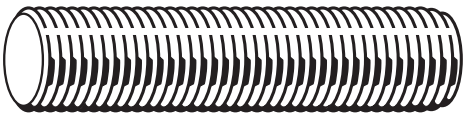
PTFE-Coated Fully Threaded Studs

- B7 alloy steel
- Tensile strength: 125,000 psi

Fluoropolymer coating prevents galling and seizing. Assembled with 2H hex nuts. Meet ASTM A193 standards.

Length	Item No.	Pkg. Qty.
1/2"-13 Thread Size		
2 1/2"	4KFV6	4
2 3/4"	4KFV7	4
3"	4KFV8	4
3 1/4"	4KFV9	4
3 1/2"	4KFW1	4
5/8"-11 Thread Size		
3"	4KFW2	4
3 1/4"	4KFW3	4
3 1/2"	4KFW4	4
3 3/4"	4KFW5	4
4"	4KFW6	4
4 1/4"	4KFW7	4
4 1/2"	4KFW8	4
5"	4KFW9	4
6"	4KFX1	4
3/4"-10 Thread Size		
3 3/4"	4KFX2	4
4"	4KFX3	4
4 1/4"	4KFX4	4
4 1/2"	4KFX5	4
4 3/4"	4KFX6	4
5"	4KFX7	4
5 1/4"	4KFX8	4
6"	4KFX9	4
6 1/2"	4KFY1	4
7"	4KFY2	4
7 1/2"	4KFY3	4

Length	Item No.	Pkg. Qty.
7/8"-9 Thread Size		
4 1/2"	4KFY4	4
4 3/4"	4KFY5	4
5"	4KFY6	4
5 1/4"	4KFY7	4
5 1/2"	4KFY8	4
6"	4KFY9	4
6 1/4"	4KFZ1	4
6 1/2"	4KFZ2	4
7"	4KFZ3	4
8"	4KFZ4	4
1"-8 Thread Size		
5"	4KFZ5	4
5 1/2"	4KFZ6	4
6"	4KFZ7	4
6 1/4"	4KFZ8	4
6 1/2"	4KFZ9	4
6 3/4"	4KGA1	4
7"	4KGA2	4
7 1/2"	4KGA3	4
1 1/8"-8 Thread Size		
6 1/4"	4KGA4	4
6 1/2"	4KGA5	4
6 3/4"	4KGA6	4
7"	4KGA7	4
7 1/4"	4KGA8	4
7 1/2"	4KGA9	4
7 3/4"	4KGC1	4
8"	4KGC2	4
1 1/4"-8 Thread Size		
7"	4KGC3	4
8"	4KGC4	4
8 1/2"	4KGC5	4
9"	4KGC6	4
9 1/4"	4KGC7	4
9 1/2"	4KGC8	4
1 3/8"-8 Thread Size		
9 1/2"	4KGC9	4
10 1/2"	4KGD1	4



Fully Threaded Studs

Precut rods eliminate the need for cutting or cleaning. Right-hand thread direction.

Note: Additional sizes, pack qty., and materials are available on Grainger.com®

Length	Material	Item No.	Pkg. Qty.
4-40 Thread Size			
½"	304 SS Plain	**10U498**	25
¾"	304 SS Plain	**10U499**	25
1"	304 SS Plain	**10U501**	25
1½"	304 SS Plain	**10U502**	25
2"	304 SS Plain	**10U503**	25
2½"	304 SS Plain	**10U504**	10
3"	304 SS Plain	**10U505**	10
6-32 Thread Size			
½"	Steel Zinc	**10P859**	100
	304 SS Plain	**10U506**	50
¾"	Steel Zinc	**10P860**	100
	304 SS Plain	**10U507**	50
1"	Steel Zinc	**10P861**	100
	304 SS Plain	**10U508**	50
1½"	Steel Zinc	**10P862**	100
	304 SS Plain	**10U509**	50
2"	Steel Zinc	**10P863**	100
	304 SS Plain	**10U510**	25
2½"	304 SS Plain	**10U511**	25
3"	304 SS Plain	**4REA3**	10
4"	304 SS Plain	**4REA4**	10
8-32 Thread Size			
½"	Steel Zinc	**10P864**	100
	316 SS Plain	**21YN33**	50
	304 SS Plain	**10U512**	50
¾"	Steel Zinc	**10P865**	100
	316 SS Plain	**21YN34**	50
	304 SS Plain	**10U513**	50
1"	Steel Zinc	**10P866**	100
	316 SS Plain	**21YN27**	50
	304 SS Plain	**10U514**	50
1½"	Steel Zinc	**10P867**	100
	304 SS Plain	**10U515**	25
2"	Steel Zinc	**10P868**	100
	316 SS Plain	**21YN37**	10
	304 SS Plain	**10U516**	10
2½"	Steel Zinc	**10P869**	50
	304 SS Plain	**10U517**	10
3"	Steel Zinc	**4REL2**	50
	304 SS Plain	**4REA5**	10
4"	304 SS Plain	**4REA6**	10
10-24 Thread Size			
½"	304 SS Plain	**10U518**	50
¾"	304 SS Plain	**10U519**	50
1"	Steel Zinc	**10P870**	100
	316 SS Plain	**10U542**	10
	304 SS Plain	**10U520**	50
1¼"	316 SS Plain	**21YN39**	25
	304 SS Plain	**10U521**	25
1½"	316 SS Plain	**21YN46**	10
	304 SS Plain	**10U522**	25
2"	Steel Zinc	**10P871**	100
	316 SS Plain	**10U543**	10
	304 SS Plain	**10U523**	10
2½"	Steel Zinc	**10P872**	50
	316 SS Plain	**21YN45**	10
	304 SS Plain	**10U524**	10
3"	Steel Zinc	**4REL3**	50
	316 SS Plain	**10U544**	10
	304 SS Plain	**4REA7**	10
4"	316 SS Plain	**21YN22**	10
	304 SS Plain	**4REA8**	10
10-32 Thread Size			
½"	Steel Plain	**10P843**	100
	Steel Zinc	**10P873**	100
	304 SS Plain	**10U525**	50
¾"	Steel Plain	**10P844**	100
	Steel Zinc	**10P874**	100
	316 SS Plain	**10U545**	10
	304 SS Plain	**10U526**	50
1"	Steel Plain	**10P845**	100
	Steel Zinc	**10P875**	100
	316 SS Plain	**10U546**	10
	304 SS Plain	**10U527**	50
1¼"	316 SS Plain	**10U547**	10
	304 SS Plain	**10U528**	25
1½"	Steel Plain	**10P846**	100
	Steel Zinc	**10P876**	100
	316 SS Plain	**10U548**	10
	304 SS Plain	**10U529**	25
2"	Steel Plain	**10P847**	100
	Steel Zinc	**10P877**	100
	316 SS Plain	**10U549**	10
	304 SS Plain	**10U530**	25
2½"	Steel Plain	**10P848**	50
	Steel Zinc	**10P878**	50
	304 SS Plain	**10U531**	10
3"	Steel Plain	**4REV4**	50
	316 SS Plain	**21YN36**	10
	304 SS Plain	**4REA9**	10
4"	Steel Zinc	**4REL4**	50
	Steel Plain	**4REV5**	25
	316 SS Plain	**21YN18**	10
	304 SS Plain	**4REC1**	10
¼"-20 Thread Size			
¾"	Steel Plain	**10P850**	100
	Steel Zinc	**10U487**	100
	316 SS Plain	**10U550**	10
	304 SS Plain	**10U533**	50
⅞"	Steel Zinc	**10U489**	100
	304 SS Plain	**10U534**	50
1"	Steel Zinc	**4REL5**	100
	Steel Plain	**4REV7**	100
	316 SS Plain	**4RDW9**	10
	304 SS Plain	**4REC2**	50
1¼"	Steel Zinc	**4REL6**	100
	Steel Plain	**4REV8**	100
	316 SS Plain	**4RDX1**	10
	304 SS Plain	**4REC3**	25
1⅜"	304 SS Plain	**21YN07**	10
1½"	Steel Zinc	**4REL7**	100
	Steel Plain	**4REV9**	100
	316 SS Plain	**4RDX2**	10
	304 SS Plain	**4REC4**	10
1¾"	Steel Zinc	**4REL8**	100
	Steel Plain	**4REW1**	100
	304 SS Plain	**4REC5**	10
2"	Steel Zinc	**4REL9**	100
	Steel Plain	**4REW2**	100
	316 SS Plain	**4RDX3**	10
	304 SS Plain	**4REC6**	10
2¼"	316 SS Plain	**21YN21**	10
	304 SS Plain	**4REC7**	10
2½"	Steel Zinc	**4REN2**	100
	Steel Plain	**4REW4**	100
	316 SS Plain	**21YN17**	10
	304 SS Plain	**4REC8**	10
3"	Steel Zinc	**4REN3**	50
	Steel Plain	**4REW6**	50
	316 SS Plain	**4RDX4**	10
	304 SS Plain	**4REC9**	10
3½"	Steel Plain	**4REW7**	50
	304 SS Plain	**4RED1**	10
4"	Steel Zinc	**4REN4**	50
	Steel Plain	**4REW8**	50
	316 SS Plain	**4RDX5**	10
	304 SS Plain	**4RED2**	10
4½"	Steel Plain	**4REW9**	25
	304 SS Plain	**4RED3**	10
5"	Steel Zinc	**4REN5**	10
6"	Steel Zinc	**4REN6**	10
	Steel Plain	**4REX1**	10
	316 SS Plain	**21YN10**	10
	304 SS Plain	**4RED4**	10
¼"-28 Thread Size			
1"	Steel Plain	**4REX2**	50
1¼"	304 SS Plain	**4RED5**	5
1½"	Steel Plain	**4REX3**	50
	304 SS Plain	**4RED6**	10
2"	304 SS Plain	**4RED7**	5
5⁄16"-18 Thread Size			
¾"	Steel Plain	**10P851**	100
	Steel Zinc	**10U490**	100
	304 SS Plain	**10U535**	25
1"	Steel Zinc	**4REN9**	100
	Steel Plain	**4REX5**	100
	316 SS Plain	**4RDX6**	10
	304 SS Plain	**4RED8**	10
1¼"	Steel Zinc	**4REP1**	100
	Steel Plain	**4REX6**	100
	316 SS Plain	**4RDX7**	10
	304 SS Plain	**4RED9**	10
1½"	Steel Zinc	**4REP2**	50
	Steel Plain	**4REX7**	50
	316 SS Plain	**4RDX8**	10
	304 SS Plain	**4REE1**	10
1¾"	Steel Zinc	**4REP3**	50
	316 SS Plain	**4RDX9**	10
	304 SS Plain	**21YN08**	10
2"	Steel Zinc	**4REP4**	25
	Steel Plain	**4REX8**	25
	316 SS Plain	**4RDY1**	10
	304 SS Plain	**4REE2**	10
2¼"	Steel Zinc	**4REP5**	25
	Steel Zinc	**4REP6**	25
2½"	Steel Plain	**4REX9**	25
	304 SS Plain	**4REE3**	10
3"	Steel Zinc	**4REP7**	10
	Steel Plain	**4REY1**	10
	316 SS Plain	**21YN23**	5
	304 SS Plain	**4REE4**	5
3½"	Steel Plain	**4REY2**	10
	304 SS Plain	**4REE5**	5
4"	Steel Zinc	**4REP8**	10
	Steel Plain	**4REY3**	10
	316 SS Plain	**21YN26**	10
6"	Steel Zinc	**4REP9**	10
	304 SS Plain	**4REE6**	5
5⁄16"-24 Thread Size			
1"	304 SS Plain	**4REE7**	5
1½"	304 SS Plain	**4REE8**	5
2"	304 SS Plain	**4REE9**	5
2½"	304 SS Plain	**4REF1**	5
⅜"-16 Thread Size			
¾"	Steel Plain	**10P852**	50
	Steel Zinc	**10U491**	50
	304 SS Plain	**10U536**	25
1"	Steel Zinc	**4RER1**	50
	Steel Plain	**4REY4**	50
	316 SS Plain	**4RDY2**	10
	304 SS Plain	**4REF2**	50
1¼"	Steel Zinc	**4RER2**	50
	Steel Plain	**4REY5**	50
	316 SS Plain	**4RDY3**	10
	304 SS Plain	**4REF3**	50
1½"	Steel Zinc	**4RER3**	25
	Steel Plain	**4REY6**	25
	316 SS Plain	**4RDY4**	10
	304 SS Plain	**4REF4**	25
1¾"	Steel Zinc	**4RER4**	25
	Steel Plain	**4REY7**	25
	316 SS Plain	**4RDY5**	10
	304 SS Plain	**4REF5**	10
2"	Steel Zinc	**4RER5**	25
	Steel Plain	**4REY8**	25
	316 SS Plain	**4RDY6**	10
	304 SS Plain	**4REF6**	10
2¼"	316 SS Plain	**4RDY7**	10
	304 SS Plain	**4REF7**	5
2½"	Steel Zinc	**4RER6**	25
	Steel Plain	**4REY9**	25
	316 SS Plain	**4RDY8**	10
	304 SS Plain	**4REF8**	5
3"	Steel Zinc	**4RER7**	25
	Steel Plain	**4REZ1**	25
	316 SS Plain	**4RDY9**	10
	304 SS Plain	**4REF9**	5
3½"	316 SS Plain	**4RDZ1**	10
4"	Steel Zinc	**4RER8**	10
	Steel Plain	**4REZ2**	10
	316 SS Plain	**4RDZ2**	10
	304 SS Plain	**4REG1**	5
5"	304 SS Plain	**4REG2**	5
6"	Steel Zinc	**4RER9**	5
	Steel Plain	**4REZ3**	5
	304 SS Plain	**4REG3**	5
⅜"-24 Thread Size			
1¼"	304 SS Plain	**4REG5**	5
1½"	Steel Plain	**4REZ4**	25
	304 SS Plain	**4REG6**	5
2"	304 SS Plain	**4REG7**	5
3"	Steel Plain	**4REZ5**	10
	304 SS Plain	**4REG8**	5
7⁄16"-14 Thread Size			
1½"	Steel Plain	**4REZ6**	10
2"	Steel Plain	**4REZ7**	10
½"-13 Thread Size			
1"	Steel Plain	**4REZ8**	25
1¼"	Steel Zinc	**4RET1**	25
	304 SS Plain	**4REG9**	10
1½"	Steel Zinc	**4RET2**	25
	Steel Plain	**4UXD3**	10
	316 SS Plain	**4RDZ3**	10
	304 SS Plain	**4REH1**	10
1¾"	304 SS Plain	**4REH2**	10
2"	Steel Plain	**26LP50**	250
	Steel Zinc	**4RET3**	10
	316 SS Plain	**4RDZ4**	10
	304 SS Plain	**4REH3**	10
2¼"	Steel Plain	**26LT13**	250
2½"	Steel Plain	**26LT14**	250
	Steel Zinc	**4RET4**	10
2¾"	Steel Plain	**26LM81**	200
3"	Steel Plain	**26LT15**	200
	Steel Zinc	**4RET5**	10
3¼"	Steel Plain	**26LM83**	200
	Steel Plain	**26LM84**	200
3½"	316 SS Plain	**21YN19**	5
	304 SS Plain	**4REH6**	5
3¾"	Steel Plain	**26LM85**	150
4"	Steel Plain	**26LM86**	150
	Steel Zinc	**4RET6**	10
4¼"	Steel Plain	**26LP55**	150
4½"	Steel Plain	**1ZY34**	4
4¾"	Steel Plain	**1ZY36**	4
5"	Steel Plain	**1ZY38**	4
	Steel Zinc	**4RET7**	5
	304 SS Plain	**21YN54**	5
	304 SS Plain	**4REH9**	5
5¼"	Steel Plain	**1ZY40**	4
5½"	Steel Plain	**1ZY42**	4
	304 SS Plain	**4REJ1**	5
5¾"	Steel Plain	**1ZY44**	4
6"	Steel Plain	**1ZY46**	4
	Steel Zinc	**4RET8**	5
⅝"-11 Thread Size			
1½"	Steel Plain	**4UXE2**	25
2"	Steel Plain	**26LK41**	200
	304 SS Plain	**4REJ4**	5
2¼"	Steel Plain	**26LK42**	150
	Steel Plain	**26LM87**	150
2½"	Steel Zinc	**4RET9**	10
	316 SS Plain	**21YN47**	10
2¾"	Steel Plain	**26LM88**	150
3"	Steel Plain	**26LM89**	125
3¼"	Steel Plain	**26LM90**	125
3½"	Steel Plain	**26LM91**	100
3¾"	Steel Plain	**26LM92**	100
	Steel Plain	**1ZY66**	4
4"	Steel Plain	**26LM93**	100
	Steel Zinc	**4REU3**	5
4¼"	Steel Plain	**26LM94**	100
4½"	Steel Plain	**26LM95**	100
4¾"	Steel Plain	**26LM96**	75
5"	Steel Plain	**26LP66**	75
	Steel Zinc	**4REU4**	5
5¼"	Steel Plain	**26LM97**	75
5½"	Steel Plain	**26LM98**	75
5¾"	Steel Plain	**26LM99**	75
6"	Steel Plain	**26LN01**	50
¾"-10 Thread Size			
2"	Steel Plain	**26LK52**	125
2¼"	Steel Plain	**26LN05**	125
2½"	Steel Plain	**26LK53**	125
2¾"	Steel Plain	**26LK54**	100
3"	Steel Plain	**26LN06**	100
	304 SS Plain	**4REK2**	5
3¼"	Steel Plain	**26LN07**	100
3½"	Steel Plain	**26LN08**	75
3¾"	Steel Plain	**26LP72**	75
4"	Steel Plain	**26LN09**	75
4¼"	Steel Plain	**26LN10**	60
4½"	Steel Plain	**26LN11**	60
4¾"	Steel Plain	**26LN12**	60
5"	Steel Plain	**26LN13**	60
	316 SS Plain	**21YN49**	5
	304 SS Plain	**4REK5**	2
5¼"	Steel Plain	**26LN14**	50
5½"	Steel Plain	**26LN15**	50
5¾"	Steel Plain	**26LN16**	50
6"	Steel Plain	**26LN17**	50
	316 SS Plain	**4REA1**	2
	304 SS Plain	**4REK6**	2
6¼"	Steel Plain	**22RU73**	50
6¾"	Steel Plain	**5CLY5**	40
8½"	Steel Plain	**5CLZ2**	30
⅞"-9 Thread Size			
3"	Steel Plain	**2AA69**	4
	316 SS Plain	**21YN52**	5
	304 SS Plain	**10U537**	2
3¼"	Steel Plain	**2AA71**	4
3½"	Steel Plain	**26LT38**	60
3¾"	Steel Plain	**26LP87**	60
	Steel Plain	**2AA77**	4
4"	316 SS Plain	**21YN53**	5
	304 SS Plain	**10U538**	2
4¼"	Steel Plain	**2AA79**	4
4½"	Steel Plain	**26LN35**	50
4¾"	Steel Plain	**26LP89**	40
5"	Steel Plain	**26LN36**	40
5¼"	Steel Plain	**26LN37**	40
5½"	Steel Plain	**26LN38**	40
5¾"	Steel Plain	**26LN39**	40
6"	Steel Plain	**26LN40**	30
1"-8 Thread Size			
4"	Steel Plain	**10P856**	2
	316 SS Plain	**10U551**	2
	304 SS Plain	**10U540**	2
4¼"	Steel Plain	**2AB38**	4
4½"	Steel Plain	**2AB40**	4
4¾"	Steel Plain	**2AB42**	4
5"	Steel Plain	**10P857**	2
5¼"	Steel Plain	**26LN52**	30
5½"	Steel Plain	**26LN53**	30
5¾"	Steel Plain	**2AB50**	4
	Steel Plain	**26LN54**	25
6"	316 SS Plain	**10U552**	2
	304 SS Plain	**10U541**	2
1⅛"-8 Thread Size			
4"	Steel Plain	**26LR19**	30
4¼"	Steel Plain	**26LK80**	30
4½"	Steel Plain	**26LK81**	30
4¾"	Steel Plain	**26LK82**	30
5"	Steel Plain	**26LK83**	25
5¼"	Steel Plain	**26LK84**	25
5½"	Steel Plain	**26LK85**	25
5¾"	Steel Plain	**26LK86**	20
6"	Steel Plain	**26LN67**	20
6¼"	Steel Plain	**26LN68**	20
6½"	Steel Plain	**26LN69**	20
6¾"	Steel Plain	**26LN70**	20
7"	Steel Plain	**26LN71**	20
7¼"	Steel Plain	**26LN72**	20
7½"	Steel Plain	**26LN73**	15
7¾"	Steel Plain	**26LN74**	15
8"	Steel Plain	**26LN75**	15
1¼"-8 Thread Size			
4½"	Steel Plain	**26LL24**	20
4¾"	Steel Plain	**26LL25**	20
5"	Steel Plain	**26LL26**	20
5¼"	Steel Plain	**2AB98**	4
5½"	Steel Plain	**26LL27**	20
5¾"	Steel Plain	**26LP02**	17
6"	Steel Plain	**26LL28**	17
6¼"	Steel Plain	**26LL29**	17
6½"	Steel Plain	**26LL30**	15
6¾"	Steel Plain	**26LL31**	15
7"	Steel Plain	**26LL32**	15
7¼"	Steel Plain	**26LL33**	15
7½"	Steel Plain	**26LL34**	15
7¾"	Steel Plain	**26LL35**	10
8"	Steel Plain	**26LL36**	10
1⅜"-8 Thread Size			
8½"	Steel Plain	**26LL68**	10
8¾"	Steel Plain	**26LL69**	10
9"	Steel Plain	**26LL70**	8
9¼"	Steel Plain	**26LL71**	8
9½"	Steel Plain	**26LL72**	8
9¾"	Steel Plain	**26LL73**	8
10"	Steel Plain	**26LL74**	8
1½"-8 Thread Size			
7"	Steel Plain	**26LL86**	10
7½"	Steel Plain	**26LL87**	10
7¾"	Steel Plain	**26LP30**	8
1⅝"-8 Thread Size			
10¼"	Steel Plain	**26LM16**	6
10½"	Steel Plain	**26LM17**	6
10¾"	Steel Plain	**26LR78**	6
1¾"-8 Thread Size			
9"	Steel Plain	**26LM39**	5
10½"	Steel Plain	**26LM40**	6
M6-1mm Thread Size			
25mm	Steel Plain	**4UXF1**	50
40mm	Steel Plain	**4UXF2**	25
50mm	Steel Plain	**4UXF3**	25
M8-1.25mm Thread Size			
25mm	Steel Plain	**4UXF4**	50
40mm	Steel Plain	**4UXF5**	25
M10-1.5mm Thread Size			
25mm	Steel Plain	**4UXF6**	25
40mm	Steel Plain	**4UXF7**	25
M12-1.75mm Thread Size			
1.5748"	304 SS Plain	**21YN32**	25
2.362"	304 SS Plain	**21YN12**	25
40mm	Steel Plain	**4UXF8**	25
50mm	Steel Plain	**4UXF9**	25
70mm	Steel Plain	**4UXG1**	10
	304 SS Plain	**4REK8**	5
80mm	Steel Plain	**4UXG2**	10
100mm	304 SS Plain	**4REK9**	5

Rod Size	Shank Length	Screw Size	Head Dia.	Nut Driver	Brand	Item No.	Pkg. Qty.
Wood and Timber							
Horizontal Hangers							
3/8"-16	1"	1/4"	5/8"	#14 SW Red	Sammys	**36K201**	25
	2"	1/4"	5/8"	#14 SW Red	Sammys	**36K202**	25
	3"	1/4"	5/8"	#14 SW Red	Sammys	**36K204**	25
1/4"-20	1"	1/4"	3/8"	—	Dewalt Engineered By Powers	**54PD93**	25
3/8"-16	1"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD94**	25
	2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD86**	25
	2 1/2"	5/16"	1/2"	—	Dewalt Engineered By Powers	**54PD95**	25
Swivel Hangers							
3/8"-16	2 1/4"	5/16"	5/8"	#14 SH Orange	Sammys	**36K190**	25
3/16"	3"	1/4"	—	—	Dewalt Engineered By Powers	**54PD92**	25
Vertical Hangers							
1/4"-20	2"	1/4"	5/8"	#14 Black	Sammys	**36K185**	25
3/8"-16	1"	1/4"	5/8"	#14 Black	Sammys	**36K182**	25
	2"	1/4"	5/8"	#14 Black	Sammys	**36K184**	25
	3"	1/4"	5/8"	#14 Black	Sammys	**36K187**	25
1/2"-13	2"	1/4"	5/8"	#14 SW Red	Sammys	**36K183**	25
	3"	1/4"	5/8"	#14 SW Red	Sammys	**36K186**	25
1/4"-20	2 1/2"	5/16"	11/16"	—	Dewalt Engineered By Powers	**54PD91**	25
	2"	1/4"	3/8"	—	Dewalt Engineered By Powers	**54PD87**	25
3/8"-16	2 1/2"	5/16"	1/2"	—	Dewalt Engineered By Powers	**54PD90**	25
	1"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD89**	25
	2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD85**	25
	3"	1/4"	3/8"	—	Dewalt Engineered By Powers	**54PD88**	25
	4"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD96**	25
Wood							
Horizontal Hangers							
3/8"-16	2 1/4"	5/16"	1/2"	—	Dewalt Engineered By Powers	**448L03**	25
Swivel Hangers							
3/8"-16	2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**448L04**	25
Steel Purlin							
Horizontal Hangers							
3/8"-16	1 1/2"	—	5/8"	36C177	Sammys	**36K205**	25
	1 1/2"	—	5/8"	36C177	Sammys	**36K209**	25
1/2"-13	1 1/2"	—	5/8"	36C177	Sammys	**36K208**	25
3/8"-16	1"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD68**	25
	1"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD77**	25
	1"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD82**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD72**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD76**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD78**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD79**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD80**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD81**	25
Swivel Hangers							
3/16"	2"	1/4"	—	—	Dewalt Engineered By Powers	**54PD83**	25
	3 1/4"	1/4"	—	—	Dewalt Engineered By Powers	**54PD84**	25
Vertical Hangers							
3/8"-16	1 1/2"	—	5/8"	36C177	Sammys	**36K215**	25
1/4"-20	1"	1/4-20	3/8"	—	Dewalt Engineered By Powers	**54PD66**	25
3/8"-16	1"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD67**	25
	1"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD73**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD69**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD70**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD74**	25
	1 1/2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD75**	25
	2"	1/4-20	1/2"	—	Dewalt Engineered By Powers	**54PD71**	25
Steel Deck							
Horizontal Hangers							
1/2"-13	1 1/2"	—	5/8"	36C177	Sammys	**36K206**	25
Vertical Hangers							
1/4"-20	1 1/2"	—	5/8"	36C177	Sammys	**36K214**	25
3/8"-16	1 1/2"	—	5/8"	36C177	Sammys	**36K213**	25
Steel							
Horizontal Hangers							
3/8"-16	1 1/2"	#12-24	5/8"	#14 SW Red	Sammys	**36K198**	25
	1"	1/4"-14	5/8"	#14 SW Red	Sammys	**36K195**	25
	1 1/4"	5/16"-18	5/8"	#14 SW Red	Sammys	**36K199**	25
	2"	1/4"-14	5/8"	#14 SW Red	Sammys	**36K196**	25
Swivel Hangers							
3/8"-16	1"	1/4"	1/2"	—	Dewalt Engineered By Powers	**448K99**	25
	1"	1/4"	1/2"	—	Dewalt Engineered By Powers	**448L02**	25
	1 3/4"	#12-24	1/2"	—	Dewalt Engineered By Powers	**448L01**	25
	2 1/4"	#12-24	5/8"	#14 SH Orange	Sammys	**36K191**	25
Vertical Hangers							
1/4"-20	1"	1/4"-14	5/8"	#14 Black	Sammys	**36K174**	25
3/8"-16	1 1/2"	#12-24	5/8"	#14 Black	Sammys	**36K179**	25
	1 1/2"	#12-24	5/8"	#14 Black	Sammys	**36K211**	25
	1"	1/4"-14	5/8"	#14 Black	Sammys	**36K173**	25
	1"	1/4"-20	5/8"	#14 Black	Sammys	**36K177**	25
	1"	1/4"-20	5/8"	#14 Black	Sammys	**36K188**	25
	1 1/4"	5/16"-18	5/8"	#14 Black	Sammys	**36K176**	25
	1 1/4"	5/16"-18	5/8"	#14 Black	Sammys	**36K181**	25
	2"	1/4"-14	5/8"	#14 Black	Sammys	**36K175**	25
	2"	1/4"-10	5/8"	#14 Black	Sammys	**36K189**	25
Concrete							
Horizontal Hangers							
3/8"-16	2 1/4"	5/16"	1/2"	—	Dewalt Engineered By Powers	**448K97**	25
	1 3/4"	5/16"	5/8"	#14 SW Red	Sammys	**36K193**	25
Swivel Hangers							
3/8"-16	2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**448K98**	25
Vertical Hangers							
1/4"-20	3 3/8"	1/4"-20	1/4"	—	Dewalt Engineered By Powers	**416K61**	100
3/8"-16	3 3/8"	3/8"-16	3/8"	—	Dewalt Engineered By Powers	**416K62**	100
3/8"-16, 1/2"-13	3 3/8"	3/8"-16, 1/2"-13	3/8"	—	Dewalt Engineered By Powers	**416K63**	100



No. 36K190



No. 36K209

SAMMYS® by MiTek Builder | DEWALT ENGINEERED BY Powers | SIMPSON Strong-Tie

Threaded Rod Hangers

- **Heat-treated, case-hardened steel**
- **Zinc-plated for corrosion resistance**

Hardened steel prevents snapping during installation or in high-stress environments 1-pc. design ensures a strong hold between screw and connector.

Notes: Nut drivers sold separately, this page.

Threaded rods are sold separately; see pages 2144, 2145.

SAMMYS®

UNC anchors can be used to hang threaded rod from wood, steel, concrete, and metal deck. Color-coded to make it easy to select the correct-size Sammys nut driver; sold separately, this page.

Sammy X-Press®—Anchors expand upon installation to stay in place without a retaining nut, for use where the back of the installed fastener is not accessible. Install quickly with Sammy X-Press It® Installation Tool No. 36C177, sold separately, this page.

DEWALT®

Wood and Steel hangers require no pre-drilling. Wood hangers have a Type 17 gimlet to help reduce splitting. Concrete hangers Nos. 54PD63, 54PD64, and 54PD65 are internally threaded; Nos. 54PD61 and 54PD62 have external 3/8" thread for direct attachment to anchors.

STRONG-TIE®

Install quickly with no special installation tools. Hanger anchors No. 4XFX3 is designed for hanging installations. Coupler anchors Nos. 4XFW8 and 4XFW9 are designed for concrete foundations.

ROD HANGER DRIVERS AND EXTENSION ROD

GA drivers are polished steel. Sammys® drivers are color-coded by size for quick selection on the job.

Rod Size	Shank Length	Screw Size	Head Dia.	Nut Driver	Brand	Item No.	Pkg. Qty.
1/2"-13	3 3/8"	1/2"-13	1/2"	—	Dewalt Engineered By Powers	**416K64**	100
5/8"-11	3 3/8"	5/8"-11	5/8"	—	Dewalt Engineered By Powers	**416K65**	50
3/4"-10	3 3/8"	3/4"-10	3/4"	—	Dewalt Engineered By Powers	**416K66**	50
1/4"-20	1 3/4"	5/16"	5/8"	#14 Black	Sammys	**36K172**	25
3/8"-16	1 3/4"	5/16"	5/8"	#14 Black	Sammys	**36K171**	25
	3"	1/4"	5/8"	#14 Black	Sammys	**36K192**	25
	6 3/4"	3/8"	9/16"	—	Strong-Tie	**4XFW8**	25
1/2"-13	1 3/4"	5/16"	5/8"	#14 SW Red	Sammys	**36K170**	25
	2 3/4"	1/2"	11/16"	—	Strong-Tie	**4XFX3**	50
	9 3/4"	1/2"	3/4"	—	Strong-Tie	**4XFW9**	1
1/4"-20	1 5/8"	1/4"	3/8"	—	Dewalt Engineered By Powers	**54PD63**	25
3/8"-16	1 5/8"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD64**	25
	1 5/8"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD61**	25
	2 1/2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD65**	25
	2 1/2"	1/4"	1/2"	—	Dewalt Engineered By Powers	**54PD62**	25

Description	Brand	Mfr. Model	Item No.
Rod Hanger Drivers			
Sammys® Nut Drivers, #14 Black	Sammys	8113910	**36C173**
Sammys® Nut Drivers, #14 SW Red	Sammys	8114910	**36C175**
Sammys® Nut Drivers, #14 SH Orange	Sammys	8273910	**36C174**
Sammy X Press Installation Tool	Sammys	8194910	**36C177**
Hangermate®+ Pivot Driver	Dewalt Engineered By Powers	PFM2201250	**54PD97**
Hangermate®+ 1/4" Socket Driver Concrete Rod Hanger	Dewalt Engineered By Powers	PFM1491050	**54PD98**
Hangermate®+ 3/8" Socket Driver Concrete Rod Hangers Black	Dewalt Engineered By Powers	PFM1491100	**54PD99**
Hangermate®+ Adapter for Hanging 1/2" Rod (3/8" to 1/2" Adapter) Silver	Dewalt Engineered By Powers	PFM2201050	**54PE02**
Hangermate®+ Steel Socket Rod Hangers Silver	Dewalt Engineered By Powers	PFM2201200	**54PE03**
Hangermate®+ Suspender Driver Hangers Silver	Dewalt Engineered By Powers	PFM2201300	**54PE04**
Hangermate®+ Acoustical Ceiling Screw Eyelets Driver Silver	Dewalt Engineered By Powers	PFM2201350	**54PE05**
DEWALT® Hangermate Wood Socket Driver Rod Hangers Red	Dewalt Engineered By Powers	PFM2201150	**54TU04**
Rod Hanger Driver Kits			
Concrete Installation Kit, Includes #14 Black Nut Driver, #14 SW Red Nut Driver, #250 Bit (1/4"), 7/32 Wood Bit, Hex 250 Bit Receiver (1/4"), SL 250 Sleeve	Sammys	8122910	**36C176**
Rod Hanger Anchor Pole Tool Kit, Includes Hex Wrench, Replacement Cut Point Set Screw, (3) Conduit Connectors	Dewalt Engineered By Powers	PFM2201100	**54TU03**



Male/Female Hex Standoffs

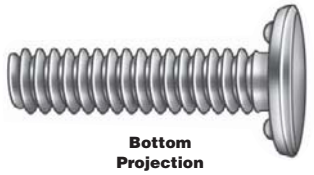
- Pkg. quantity: 10

Note: 18-8 stainless steel, zinc-plated steel, zinc-plated brass, and nickel-plated brass standoffs available on Grainger.com®; search for "male/female hex standoffs."

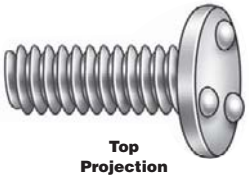
Tolerance
+/-0.005 On Dimensions Thru 0.625
+/-0.008 On Dimensions 0.625 Thru 1.000
+/-0.010 On Dimensions 1.001 Thru 1.500
+/-0.010 On Dimensions Larger Than 1.500

Length	Screw Size	Thread Length	Item No.
Aluminum			
3/16" Hex Width			
1/2"	4-40	1/4"	**6MZR9**
1"	4-40	1/2"	**6MZT1**
1 1/2"	4-40	3/4"	**6MZT2**
1/4" Hex Width			
1/2"	4-40	1/4"	**6MZT4**
	6-32	1/4"	**6MZU4**
3/4"	4-40	3/8"	**6MZT5**
	6-32	3/8"	**6MZU6**
	8-32	3/8"	**6NZX1**
1"	4-40	1/2"	**6MZT6**
	6-32	1/2"	**6MZU8**
	8-32	1/2"	**6NZX2**
1 1/4"	4-40	5/8"	**6MZT7**
	6-32	5/8"	**6MZU9**
	8-32	5/8"	**6NZX3**
1 1/2"	4-40	3/4"	**6MZT8**
	6-32	3/4"	**6NZW4**
	8-32	3/4"	**6NZX4**
1 3/4"	6-32	7/8"	**6NZW5**
2"	4-40	1"	**6MZU0**
	6-32	1"	**6NZW6**
	8-32	1"	**6NZX5**
2 1/2"	4-40	1 1/4"	**6MZU1**
	6-32	1 1/4"	**6NZW7**
	8-32	1 1/4"	**6NZX6**
5/16" Hex Width			
1"	10-32	1/2"	**6NZX9**
1 1/4"	10-32	1/2"	**6NZY0**
1 1/2"	10-32	1/2"	**6NZY1**
2"	10-32	1/2"	**6NZY2**
2 1/2"	10-32	1/2"	**6NZY3**
3/8" Hex Width			
1"	10-32	1/2"	**6NZY5**
2"	10-32	1"	**6NZY6**
3"	8-32	1 1/2"	**6NZY4**
4"	10-32	2"	**6NZY7**
1/2" Hex Width			
1 1/2"	1/4-20	3/4"	**6NZY8**
2"	1/4-20	1/2"	**6NZY9**
4"	1/4-20	2"	**6NZZ0**
Nylon, Black			
1/4" Hex Width			
3/4"	#6-32	1/4"	**3XYN7**
Nylon, Natural			
1/4" Hex Width			
1/2"	#4-40	3/16"	**3XYF6**
	#6-32	1/4"	**3XYH8**
5/8"	#4-40	3/16"	**3XYG5**
3/4"	#6-32	1/4"	**3XYJ3**
1"	#4-40	3/16"	**3XYF4**
	#6-32	1/4"	**3XYH7**
	#8-32	3/8"	**3XYK1** *
1 1/2"	#4-40	3/16"	**3XYF9**
	#6-32	1/4"	**3XYJ1**
2"	#4-40	3/16"	**3XYP2**
	#6-32	1/4"	**3XYP5**
	#8-32	3/8"	**3XYP7**
2 1/2"	#4-40	3/16"	**3XYE9**
	#6-32	1/4"	**3XYH2**
	#8-32	3/8"	**3XYJ9**
3"	#8-32	3/8"	**3XYJ8**

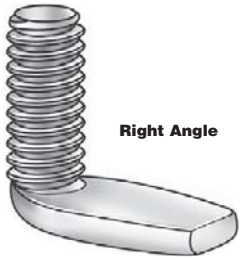
**** Female thread depth is 17/64"***



Bottom Projection



Top Projection



Right Angle

Weld Studs

All studs have right-hand thread direction. Steel material.

Bottom Projection—Styles offer a smooth, finished appearance on the outer surface.

Top Projection—Styles can be assembled into a prelocated hole.

Right Angle—Flat spade head style allows the installer to use various sizes of electrode tips and can be used when an offset is required.

Thread Size	Length under Head	Head Dia.	Head Height	Item No.	Pkg. Qty.
Bottom Projection					
8-32	1"	0.375"	0.063"	**1LAK7**	100
10-24	3/8"	0.438"	0.063"	**1LAK8**	100
	1/2"	0.438"	0.063"	**1LAK9**	100
10-32	5/8"	0.438"	0.063"	**1LAL3**	100
	1"	0.438"	0.063"	**1LAL4**	100
1/4"-20	3/4"	0.563"	0.078"	**1LAL8**	100
	1"	0.563"	0.078"	**1LAN1**	100
	1 1/4"	0.563"	0.078"	**1LAN2**	100
5/16"-18	3/4"	0.740"	0.094"	**1LAN4**	100
	1"	0.740"	0.094"	**1LAN5**	100
	2"	0.740"	0.094"	**1LAN6**	100
3/8"-16	1"	0.865"	0.109"	**1LAN7**	100
	1 1/4"	0.865"	0.109"	**1LAN8**	100
1/2"-13	1 1/4"	0.990"	0.141"	**1LAN9**	100
Top Projection					
10-24	7/16"	0.375"	0.063"	**1LAP1**	100
1/4"-20	27/64"	0.498"	0.078"	**1LAP2**	100
	43/64"	0.498"	0.078"	**1LAP3**	100
5/16"-18	21/32"	0.618"	0.094"	**1LAP4**	100

Thread Size	Thread Length	Spade Length	Spade Width	Spade Height	Item No.	Pkg. Qty.
Right Angle						
10-32	0.312"	11/16"	11/32"	1/16"	**1LAR1**	50
1/4"-20	0.531"	3/4"	3/8"	3/32"	**1LAR4**	25
	0.656"	3/4"	3/8"	3/32"	**1LAR5**	25
	0.906"	3/4"	3/8"	3/32"	**1LAR6**	25



Female Hex Standoffs

Note: 18-8 stainless steel, zinc-plated steel, and zinc-plated brass standoffs also available on Grainger.com®; search for "female hex standoffs."

Note: Bulk packaging is also available on Grainger.com®; search for "bulk hex standoffs."

Nylon Tolerance
+/-0.005 On Dimensions Thru 0.625
+/-0.008 On Dimensions 0.625 Thru 1.000
+/-0.010 On Dimensions 1.001 Thru 1.500
+/-0.010 On Dimensions Larger Than 1.500

Length	Screw Size	Thread Length	Item No.
Aluminum			
3/16" Hex Width			
3/16"	#4-40	3/16"	**6MZG1**
1/4"	#4-40	1/4"	**6MZG2**
3/8"	#4-40	3/16"	**6MZN6**
1/2"	#4-40	1/2"	**6MZG3**
5/8"	#4-40	5/8"	**6MZG4**
3/4"	#4-40	3/4"	**6MZG5**
7/8"	#4-40	7/8"	**6MZG6**
1"	#4-40	1"	**6MZG7**
1/4" Hex Width			
3/16"	#4-40	3/16"	**6MZG9**
1/4"	#4-40	1/4"	**6MZH2**
	#6-32	1/4"	**6MZH3**
3/8"	#4-40	3/8"	**6MZH6**
	#6-32	3/8"	**6MZH7**
7/16"	#4-40	7/16"	**6MZH9**
1/2"	#4-40	1/2"	**6MZJ1**
	#6-32	1/2"	**6MZJ2**
	#8-32	1/2"	**6MZJ3**
5/8"	#6-32	5/8"	**6MZJ5**
3/4"	#4-40	3/4"	**6MZJ7**
	#6-32	3/4"	**6MZJ8**
	#8-32	3/4"	**6MZJ9**
1"	#4-40	1"	**6MZK1**
	#6-32	1"	**6MZK2**
	#8-32	1"	**6MZK3**
1 1/4"	#4-40	1/4"	**6MZN8**
	#6-32	3/8"	**6MZN9**
	#8-32	7/16"	**6MZP0**
1 1/2"	#6-32	3/8"	**6MZP1**
	#8-32	7/16"	**6MZP2**
2"	#4-40	1/4"	**6MZP3**
	#6-32	3/8"	**6MZP4**
	#8-32	7/16"	**6MZP5**
5/16" Hex Width			
1/2"	#10-32	1/2"	**6MZK4**
3/4"	#10-32	3/4"	**6MZK6**
1"	#10-32	1"	**6MZK7**
1 1/4"	#10-32	1/2"	**6MZP6**
1 1/2"	#10-32	1/2"	**6MZP7**
2"	#10-32	1/2"	**6MZP8**
3/8" Hex Width			
1/2"	#10-32	1/2"	**6MZL1**
5/8"	#10-32	5/8"	**6MZL2**
3/4"	#10-32	3/4"	**6MZL4**
1"	#10-32	1"	**6MZL6**
1 1/2"	#10-32	1/2"	**6MZP9**
2"	#8-32	7/16"	**6MZR0**
	#10-32	1/2"	**6MZR1**
1/2" Hex Width			
1/2"	1/4-20	1/2"	**6MZL7**
3/4"	1/4-20	3/4"	**6MZL8**
7/8"	1/4-20	7/8"	**6MZL9**
1"	1/4-20	1"	**6MZN0**
1 1/2"	1/4-20	5/8"	**6MZR2**
2"	1/4-20	5/8"	**6MZR3**
2 1/2"	#10-32	1/2"	**6MZR4**
	1/4-20	5/8"	**6MZR5**
3"	#10-32	1/2"	**6MZR6**
	1/4-20	5/8"	**6MZR7**
4"	#10-32	1/2"	**6MZR8**
Nylon, Black			
1/4" Hex Width			
1/4"	#6-32	1/4"	**3XYL7**
1/2"	#6-32	1/2"	**3XYL5**
1"	#8-32	3/8"	**3XYN2**
Nylon, Natural			
3/16" Hex Width			
1/2"	#4-40	1/2"	**3XYF2**
9/16"	#2-56	9/16"	**3XYE8**
1/4" Hex Width			
1/4"	#4-40	1/4"	**3XYF5**
1/2"	#4-40	1/2"	**3XYF3**
5/8"	#6-32	5/8"	**3XYJ5**
3/4"	#6-32	3/8"	**3XYH9**
	#8-32	3/8"	**3XYK3**
1"	#4-40	3/8"	**3XYP3**
	#6-32	3/8"	**3XYP4**
1 1/4"	#6-32	3/8"	**3XYH3**
1 3/8"	#4-40	3/8"	**3XYF1**

Individual Fasteners Assortments—Spacer

- I.D. tolerance: ±0.010"
- O.D. tolerance: ±0.010"
- Length tolerance:±0.010"

Inside Dia.	Outside Dia.	Length	Item No.
Spacer Assortments, Includes all Refills			
30-Pc., Low Carbon Steel, Chrome Finish			4GUX6
Spacer Refills for No. 4GUX6, Pkg. 5			
0.470"	⅛"	1½"	4GVD9
	⅛"	2"	4GVE1
	⅛"	2½"	4GVE2
0.530"	1"	2"	4GVE3
	1"	2½"	4GVE4
	1"	3"	4GVE5

Inside Dia.	Outside Dia.	Length	Item No.
Spacer Assortments, Includes all Refills			
90-Pc., Low Carbon Steel, Chrome Finish			2FUH6
Spacer Refills for No. 2FUH6, Pkg. 5			
0.281"	⅜"	⅛"	2FUH2
	⅜"	¼"	2JGG1
	⅜"	⅜"	2FUT7
	⅜"	½"	2FUL9
	⅜"	¾"	2FUD3
	⅜"	1"	2JGG2
0.344"	⅝"	⅛"	2FUH3
	⅝"	¼"	2FUT8
	⅝"	⅜"	2FUN1
	⅝"	½"	2FUH4
	⅝"	¾"	2FUB5
	⅝"	1"	2FUP8
0.406"	¾"	⅛"	2FUT9
	¾"	¼"	2FUN2
	¾"	⅜"	2FUF6
	¾"	½"	2JGG3
	¾"	¾"	2JGG4
	¾"	1"	2FUF7



No. 2FUH6



Round Spacers

- Pkg. qty.: 10

Note: Do not use as precision bearings or shafts, or as high-precision jacking or adjusting devices. Bulk packaging also available; on Grainger.com®, search for "bulk round spacers."

Length	Screw Size	Inside Dia.	Item No.
Aluminum			
¼" Outside Dia.			
⅛"	#4	0.115"	6MYP2
	#6	0.140"	6MYP3
	#8	0.166"	6MYP4
¼"	#6	0.140"	6MYP9
	#8	0.166"	6MYR0
5⁄16"	#6	0.140"	6MYR2
⅜"	#8	0.166"	6MYR4
½"	#4	0.115"	6MYR7
	#8	0.166"	6MYR9
¾"	#4	0.115"	6MYT3
	#8	0.166"	6MYT5
1"	#4	0.115"	6MYT6
	#8	0.166"	6MYT8
1¼"	#8	0.166"	6MYT9
1½"	#6	0.140"	6MYU0
	#8	0.166"	6MYU1
5⁄16" Outside Dia.			
¼"	#10	0.192"	6MYU6
½"	#10	0.192"	6MYV2
9⁄16"	#10	0.192"	6MYV3
¾"	#10	0.192"	6MYV4
1"	#10	0.192"	6MYV5
1¼"	#10	0.192"	6MYV6
1½"	#10	0.192"	6MYV7
⅜" Outside Dia.			
3⁄16"	#10	0.192"	6MYV8
¼"	#10	0.192"	6MYW0
5⁄16"	#8	0.166"	6MYW1
⅜"	#10	0.192"	6MYW2
7⁄16"	#10	0.192"	6MYW3
½"	#10	0.192"	6MYW5
	#12	0.218"	6MYW6
⅝"	#10	0.192"	6MYW8
	#12	0.218"	6MYW9
¾"	#10	0.192"	6MYX0
1"	#10	0.192"	6MYX2
1¼"	#10	0.192"	6MYX3
½" Outside Dia.			
5⁄16"	¼"	0.252"	6MYX4
¼"	#10	0.192"	6MYX5
	¼"	0.252"	6MYX6
5⁄16"	¼"	0.252"	6MYX7
⅜"	#8	0.166"	6MYX8
	¼"	0.252"	6MYX9
½"	¼"	0.252"	6MYY1
⅝"	#10	0.192"	6MYY2
	¼"	0.252"	6MYY3
¾"	#10	0.192"	6MYY4
	¼"	0.252"	6MYY5
⅞"	¼"	0.252"	6MYY6
1"	#8	0.166"	6MYY7
	#10	0.192"	6MYY8
	¼"	0.252"	6MYY9
1¼"	¼"	0.252"	6MYZ0
1½"	#10	0.192"	6MYZ1
	¼"	0.252"	6MYZ2

Length	Screw Size	Inside Dia.	Item No.
5⁄8" Outside Dia.			
¼"	¼"	0.252"	6MYZ3
⅜"	¼"	0.252"	6MYZ4
½"	¼"	0.252"	6MYZ5
1½"	¼"	0.252"	6MYZ6
¾" Outside Dia.			
¼"	⅜"	0.380"	6MYZ8
	5⁄16"	0.315"	6MYZ7
⅜"	⅜"	0.380"	6MZA0
	5⁄16"	0.315"	6MYZ9
½"	⅜"	0.380"	6MZA2
	5⁄16"	0.315"	6MZA1
⅝"	⅜"	0.380"	6MZA4
	5⁄16"	0.315"	6MZA3
¾"	⅜"	0.380"	6MZA6
	5⁄16"	0.315"	6MZA5
⅞"	⅜"	0.380"	6MZA8
	5⁄16"	0.315"	6MZA7
1"	⅜"	0.380"	6MZC0
	5⁄16"	0.315"	6MZA9
1¼"	⅜"	0.380"	6MZC1
1½"	⅜"	0.380"	6MZC3
	5⁄16"	0.315"	6MZC2
2"	⅜"	0.380"	6MZC5
	5⁄16"	0.315"	6MZC4
1" Outside Dia.			
⅜"	½"	0.505"	6MZC6
½"	½"	0.505"	6MZC7
	⅝"	0.630"	6MZC8
¾"	½"	0.505"	6MZC9
Nylon			
3⁄16" Outside Dia.			
⅛"	#4	0.115"	3YAE8
⅜"	#4	0.115"	3YAF7
¼" Outside Dia.			
¼"	#6	0.140"	3ZMA8
	#8	0.171"	3ZMG9
½"	#6	0.140"	3ZMA2
	#8	0.171"	3ZMG4
¾"	#4	0.115"	3YAF6
	#6	0.140"	3ZMD3
1"	#8	0.171"	3ZMF7
1¼"	#6	0.140"	3XZJ5
5⁄16" Outside Dia.			
⅜"	#6	0.140"	3ZMD8
⅝"	#10	0.194"	3XZY1
¾"	#10	0.194"	3XZV4
1¼"	#10	0.194"	3XZC9
1½"	#10	0.194"	3XZC7
½" Outside Dia.			
¼"	#10	0.194"	3XZT5
	¼-20	0.260"	3XYY8
⅜"	#10	0.194"	3XZW7
	¼-20	0.257"	3XZA1
½"	#10	0.194"	3XZT1
	¼-20	0.257"	3XYY6
⅝"	¼-20	0.257"	3XZA5
¾"	¼-20	0.260"	3XYZ8
⅞"	¼-20	0.260"	3XZA9
1"	#10	0.194"	3XZP6
	#12	0.219"	3XZZ1
	¼-20	0.257"	3XZN4



Round Standoff

Round Standoff Cap

Standoffs and Standoff Caps

- Tensile strength: 80,000 psi (18-8 stainless steel); 55,000 psi (aluminum)
- Pkg. qty.: 2

Screw Size	Dia./ Square	Length	Thread Depth	ALUMINUM, CLEAR ANODIZED Item No.	ALUMINUM, BLACK ANODIZED Item No.	18-8 STAINLESS STEEL, BRITE2 Item No.	18-8 STAINLESS STEEL, SATIN Item No.
Standoff							
10-24	⅜ in	¼"	¼ in	5GHJ8	5GHK7	5GHL6	5GHN5
		½"	½ in	5GHJ9	5GHK8	5GHL7	5GHN6
		¾"	¾ in	5GHK0	5GHK9	5GHL8	5GHN7
		1"	1 in	5GHK1	5GHL0	5GHL9	5GHN8
		1½"	½ in	5GHK3	5GHL2	5GHN1	5GHP0
		2"	¾ in	5GHK4	5GHL3	5GHN2	5GHP1
		3"	¾ in	5GHK5	5GHL4	5GHN3	5GHP2
		4"	¾ in	5GHK6	5GHL5	5GHN4	5GHP3
¼-20	½ in	¼"	¼ in	5GHT2	5GHU1	5GHV0	5GHV9
		½"	½ in	5GHT3	5GHU2	5GHV1	5GHW0
		¾"	¾ in	5GHT4	5GHU3	5GHV2	5GHW1
		1"	1 in	5GHT5	5GHU4	5GHV3	5GHW2
		1¼"	½ in	5GHT6	5GHU5	5GHV4	5GHW3
		1½"	½ in	5GHT7	5GHU6	5GHV5	5GHW4
		2"	¾ in	5GHT8	5GHU7	5GHV6	5GHW5
		3"	¾ in	5GHT9	5GHU8	5GHV7	5GHW6
		4"	¾ in	5GHU0	5GHU9	5GHV8	5GHW7
5⁄16-18	5⁄8 in	½"	½ in	5GHY7	5GHZ6	5GJA5	5GJC4
		1"	1 in	5GHY9	5GHZ8	5GJA7	5GJC6
		1¼"	½ in	5GHZ0	5GHZ9	5GJA8	5GJC7
		2"	¾ in	5GHZ2	5GJA1	5GJC0	5GJC9
		3"	¾ in	5GHZ3	5GJA2	5GJC1	5GJD0
	¾ in	½"	½ in	5GNK3	5GNL2	5GNN1	5GNP0
		¾"	¾ in	5GNK4	5GNL3	5GNN2	5GNP1
		1"	1 in	5GNK5	5GNL4	5GNN3	5GNP2
		2"	¾ in	5GNK8	5GNL7	5GNN6	5GNP5
		3"	¾ in	5GNK9	5GNL8	5GNN7	5GNP6
	1 in	¼"	¼ in	5GNT6	5GNU5	5GNV4	5GNW3
		½"	½ in	5GNT7	5GNU6	5GNV5	5GNW4
		¾"	¾ in	5GNT8	5GNU7	5GNV6	5GNW5
		1"	1 in	5GNT9	5GNU8	5GNV7	5GNW6
		1¼"	½ in	5GNU0	5GNU9	5GNV8	5GNW7
		1½"	½ in	5GNU1	5GNV0	5GNV9	5GNW8
		2"	¾ in	5GNU2	5GNV1	5GNW0	5GNW9
		3"	¾ in	5GNU3	5GNV2	5GNW1	5GNX0
		4"	¾ in	5GNU4	5GNV3	5GNW2	5GNX1
	1 ¼ in	1"	1 in	5GNZ3	5GPA2	5GPC1	5GPD0
		2"	¾ in	5GNZ6	5GPA5	5GPC4	5GPD3
		3"	¾ in	5GNZ7	5GPA6	5GPC5	5GPD4
		4"	¾ in	5GNZ8	5GPA7	5GPC6	5GPD5
	1 ½ in	1"	1 in	5GPF7	5GPG6	5GPH5	5GPJ4
		1½"	½ in	5GPF9	5GPG8	5GPH7	5GPJ6
		3"	¾ in	5GPG1	5GPH0	5GPH9	5GPJ8
Standoff Cap							
10-24 x ½" Stud	⅜"	¼"	—	5AGR1	5AGT5	5AGU9	5AGW3
10-24 x 1" Stud		⅜"	—	5AGR2	5AGT6	5AGV0	5AGW4
¼-20 x ½" Stud	½"	7⁄16"	—	5AGR3	5AGT7	5AGV1	5AGW5
¼-20 x 1 ½" Stud		½"	—	5AGR4	5AGT8	5AGV2	5AGW6
5⁄16-18 x ½" Stud	5⁄8"	7⁄16"	—	5AGR5	5AGT9	5AGV3	5AGW7
		7⁄16"	—	5AGR7	5AGU1	5AGV5	5AGW9
5⁄16-18 x 1 ½" Stud	¾"	½"	—	5AGR8	5AGU2	5AGV6	5AGX0
5⁄16-18 x ½" Stud	1"	7⁄16"	—	5AGR9	5AGU3	5AGV7	5AGX1
5⁄16-18 x 1 ½" Stud		½"	—	5AGT0	5AGU4	5AGV8	5AGX2
5⁄16-18 x ½" Stud	1¼"	7⁄16"	—	5AGT1	5AGU5	5AGV9	5AGX3
5⁄16-18 x 1 ½" Stud		½"	—	5AGT2	5AGU6	5AGW0	5AGX4
5⁄16-18 x ½" Stud	1½"	7⁄16"	—	5AGT3	5AGU7	5AGW1	5AGX5
5⁄16-18 x 1 ½" Stud		½"	—	5AGT4	5AGU8	5AGW2	5AGX6



Cotter Pin

No. 2WZV1



GA GRAINGER APPROVED ITW Bee Leitzke

Cotter Pin and Hairpin Cotter Assortments

No. of Pieces	No. of Sizes	Includes	Item No.
GA			
Cotter Pin Assortment, Low Carbon Steel, Zinc Finish			
117	7	(25) Each: 7/64" x 1", 3/32" x 3/4", x1", x1-1/4", (10) Each: 1/8" x 1 1/4", (5) 1/16" x 1", (2) Each: 1/16" x 3/4", Plastic Container	53WR33
Slotted Spring Assortment, Carbon Steel			
450	18	(25) Each: 1/16x1/4", x1/2", x3/4", x1", 5/64x1/4", x1/2", x3/4", x1", 3/32x1/4", x1/2", x3/4", x1", x1-1/4", 1/8x1/2", x3/4", x1", x1-1/4", x1-1/2", and Plastic Container	6LF71
405	18	(25) Each: 5/32x1/2", x5/8", x3/4", x7/8", x1", x1-1/4", x1-1/2", 3/16x1/2", x3/4", x7/8", x1", x1-1/4", x1-1/2", 7/32x5/8", x3/4", 10 Each: 7/32x1", x1-1/4", x1-1/2", and Plastic Container	6LF72
Itw Bee Leitzke			
Coiled Spring Assortment, Carbon Steel			
270	16	(30) Each: 1/8x3/4", x1", (20) Each: 1/16x1/2", x1", 3/32x1/2", x1", 1/8x1/2", 3/16x1", x1-1/2", (15) Each: 5/32x1/2", (10) Each: 5/32x1", 1/4x1", x1-1/2", x2", 5/16x1", (5) Each: 5/16x2", Plastic Container	2NRY5
Cotter, Extended Prong Pin Assortment, 18-8 Stainless Steel			
100	14	(10) Each: 3/32x3/4", x1", 1/8x1", x1-1/4", 3/16x1", x1-1/2", (8) Each: 1/8x1-1/2", 3/16x2", (6) Each: 1/4x1-1/2", x2", (4) Each: 3/32x1-1/2", 5/32x1-1/2", (2) Each: 5/16x2", x2-1/2", Plastic Container	2WZV2
550	7	(125) Each: 1/16x1", 3/32x1", (80) Each: 3/32x3/4", (70) Each: 3/32x1-1/2", (60) Each: 1/8x1", (50) Each: 1/8x1-1/2", (40) Each: 1/8x2", (20) Each: 5/32x2", Plastic Container	2WZU9
1200	10	(250) Each: 3/32x3/4", (200) Each: 1/16x1/2", 3/32x1", (150) Each: 1/16x1", (125) Each: 3/32x1-1/2", (100) Each: 1/8x1", (75) Each: 1/8x1-1/2", (65) Each: 1/8x2", (20) Each: 5/32x2", (15) Each: 3/16x2", Plastic Container with Identification Label	2WZU7
Cotter, Extended Prong Pin Assortment, Low Carbon Steel, Zinc Finish			
420	6	(100) Each: 1/16x1", 3/32x1", 1/8x1", (60) Each: 1/8x1-1/2", (40) Each: 5/32x1-1/2", (20) Each: 3/16x2", Plastic Container	2NRY4
100	14	(10) Each: 3/32x3/4", x1", 1/8x1", x1-1/4", 3/16x1", x1-1/2", (8) Each: 1/8x1-1/2", 3/16x2", (6) Each: 1/4x1-1/2", x2", (4) Each: 3/32x1-1/2", 5/32x1-1/2", (2) Each: 5/16x2", x2-1/2", Plastic Container	2WZV3
550	7	(125) Each: 1/16x1", 3/32x1", (80) Each: 3/32x3/4", (70) Each: 3/32x1-1/2", (60) Each: 1/8x1", (50) Each: 1/8x1-1/2", (40) Each: 1/8x2", Plastic Container	2WZV1
1200	10	(250) Each: 3/32x3/4", (200) Each: 1/16x1/2", 3/32x1", (150) Each: 1/16x1", (125) Each: 3/32x1-1/2", (100) Each: 1/8x1", (75) Each: 1/8x1-1/2", (65) Each: 1/8x2", (20) Each: 5/32x2", (15) Each: 3/16x2", Plastic Container with Identification Label	2WZU8
Hairpin Clips Pin Assortment, Spring Wire, Zinc Finish			
276	9	Fits Shaft Sizes, (50) Each: 1/8", 3/16", 1/4", (40) Each: 5/16", (30) Each: 3/8", (20) Each: 1/2", (15) Each: 5/8", 3/4", (6) Each: 1", Plastic Hanging Pak	2MVP2
Hairpin Cotter Pin Assortment, 18-8 Stainless Steel			
50	5	Fits Shaft Sizes, (10) Each: 1/8", 3/16-1/4", 1/4-5/16", 5/16-3/8", 3/8-7/16", Plastic Container	2MVP8
Hairpin Cotter Pin Assortment, Spring Wire, Zinc Finish			
50	5	Fits Shaft Sizes, (10) Each: 1/8", 3/16-1/4", 1/4-5/16", 5/16-3/8", 3/8-7/16", Plastic Container	2MVP7
74	8	Fits Shaft Sizes, (10) Each: 1/8-3/16", 3/16-1/4", 1/4-5/16", 5/16-3/8", 3/8-7/16", 3/8-3/4, 7/8-1", (4) Each: 1 1/8-1-1/2", Plastic Container	2MVP6
130	7	Fits Shaft Sizes, (20) Each: 3/16-1/4", 1/4-5/16", 5/16-3/8", 3/8-7/16", 1/2-9/16", 5/8-3/4", (10) Each: 7/8-1", Plastic Container	5A199
Slotted Spring Assortment, Carbon Steel, Zinc Finish			
170	6	(50) Each: 1/8x1", (35) Each: 3/16x1", (30) Each: 1/8x1-1/2", (25) Each: 3/16x1-1/2", (15) Each: 1/4x1-1/4", x1-1/2", Plastic Container	5A197
204	17	(30) Each: 1/16x3/4", (20) Each: 5/32x1", (15) Each: 3/32x1", x1-1/4", 1/8x7/8", x1-1/2", (10) Each: 3/16x1", x1-1/2", 7/32x1-1/4", 1/4x7/8", x1-1/4", x1-1/2", 5/16x1-1/2", (8) Each: 5/16x1-3/4", x2-1/2", (4) Each: 3/8x1-3/4", x2-1/4", Plastic Container	5A198





Hairpin Cotter Pins

Fits Shaft Dia.	Pin Dia.	Length	Item No.	Pkg. Qty.
Hairpin Clips				
18-8 Stainless Steel				
3/16"	1/32"	1/2"	2MVN3	100
3/16"	3/64"	3/4"	2MVN4	100
3/8"	3/64"	31/32"	2MVN5	100
7/16"	3/64"	1 1/8"	2MVN6	100
1/2"	1/16"	1 1/8"	2MVN7	50
5/8"	1/32"	1 1/2"	2MVL7	100
3/4"	3/32"	1 13/16"	2MVL8	100
1/8"	7/64"	2 5/64"	2MVL9	50
1"	1/8"	2 9/32"	2MVN1	50
Hairpin Cotter Pins				
18-8 Stainless Steel				
1/8 to 5/32"	1/32"	39/64"	1WHR1	50
1/8 to 3/16"	3/64"	19/32"	1BBG5	50
3/16 to 1/4"	3/64"	1"	1WHR2	50
	3/64"	15/16"	2MVK3	100
1/4 to 5/16"	1/16"	1 1/8"	2MVK4	100
1/4 to 3/8"	5/64"	1 3/16"	1BBF9	50
	3/64"	1 9/16"	1BBG7	50
1/4 to 1/2"	3/32"	1 5/8"	1BBE8	50
	1/16"	1 5/16"	1BBG6	50
1/4 to 5/8"	3/32"	2 5/16"	1BBF1	50
5/16 to 3/8"	5/64"	1 7/16"	2MVK5	50
5/16 to 1/2"	5/64"	1 5/8"	3DYT2	25
3/8 to 7/16"	2 9/32"	1 7/8"	2MVK6	25
3/8 to 1/2"	5/64"	1 9/16"	1BBG3	50
3/8 to 3/4"	3/32"	2 1/2"	1BBG1	25
7/16 to 3/4"	1/8"	2 9/16"	1BBF8	25
1/2 to 5/8"	1/8"	2 3/8"	2MVK7	25
1/2 to 3/4"	1/8"	1 15/16"	1BBG2	25
5/8 to 3/4"	9/64"	2 9/16"	2MVK8	10
5/8 to 7/8"	1/8"	2 1/2"	1BBG8	10
5/8 to 1"	11/64"	3 1/4"	1BBE9	10
3/4 to 1"	1/4"	4"	1BBG4	1
3/4 to 1 1/16"	11/64"	3 1/2"	1BBG9	5
3/4 to 1 1/8"	9/64"	3 5/16"	1BBF2	10
316 Stainless Steel				
1/4 to 3/8"	9/64"	1 3/16"	1BBH7	25
	3/64"	1 9/16"	1BBJ2	25
1/4 to 1/2"	3/32"	1 5/8"	1BBH2	25
	1/16"	1 5/16"	1BBJ1	25
1/4 to 5/8"	3/32"	2 5/16"	3DYT3	25
3/8 to 1/2"	5/64"	1 3/16"	1BBH9	25
7/16" to 3/4"	1/8"	2 9/16"	3DYT5	10
1/2 to 3/4"	1/8"	1 13/16"	1BBH8	10
5/8 to 7/8"	1/8"	2 1/2"	1BBJ3	10
5/8 to 1"	11/64"	3 1/4"	1BBH5	5
3/4" to 1 1/8"	9/64"	3 5/16"	3DYT4	5
Zinc-Plated Carbon Steel				
1/8 to 5/32"	1/32"	1/2"	2UJK1	25
1/8 to 3/16"	1/32"	19/32"	2MVJ3	100
3/16 to 1/4"	3/64"	15/16"	2MVJ4	100
	3/64"	1"	2UJK4	25
	3/64"	3/4"	2UJK7	25
	3/64"	31/32"	2UJK9	25
1/4 to 5/16"	1/16"	1 1/8"	2MVJ5	100
1/4 to 3/8"	3/64"	1 9/16"	2UJK6	25
	3/64"	7/8"	2UJK8	25
	5/64"	1 3/16"	2UJL4	25
	5/64"	1 3/16"	2UJL6	25
1/4 to 1/2"	1/16"	1 5/16"	2UJL1	25
	3/32"	1 1/8"	2UJN1	25
	3/32"	1 5/8"	2UJN2	25
	3/32"	2"	2UJN3	25
1/4 to 3/8"	3/32"	2 5/16"	2UJN4	25
5/16 to 3/8"	5/64"	1 7/16"	2MVJ6	100
	5/64"	1 3/32"	2UJL3	25
5/16" to 3/8"	3/32"	1 5/8"	2UJL8	25
5/16 to 3/8"	7/64"	1 1/4"	2UJN6	25
3/8 to 7/16"	3/32"	1 7/8"	2MVJ7	100
3/8 to 1/2"	1/16"	1 13/16"	2UJL2	25
	5/64"	1 7/8"	2UJL5	25
	5/64"	1 9/16"	2UJL7	25
	3/32"	2"	2UJL9	25
3/8 to 3/4"	3/32"	2 1/2"	2UJN5	25
7/16 to 3/4"	1/8"	2 9/16"	2UJP1	25
1/2 to 5/8"	1/8"	2 3/8"	1PVN3	25
	1/8"	2 3/8"	2MVJ8	50
1/2 to 3/4"	1/8"	1 9/16"	2UJN7	25
	1/8"	1 15/16"	2UJN8	25
1/2 to 1"	9/64"	3"	2UJP5	10
	11/64"	3"	2UJP8	10
1/2" to 1"	5/32"	3 1/16"	3DYT7	10
5/8 to 3/4"	9/64"	2 9/16"	2MVJ9	50
	9/64"	2 3/4"	2UJP4	25
5/8 to 7/8"	1/8"	2 1/2"	2UJN9	25
5/8 to 1"	9/64"	2 15/16"	2UJP6	25
	11/64"	3 1/4"	2UJR1	10
3/4 to 1"	1/4"	4"	2UJR5	10
3/4 to 1 1/16"	11/64"	3 1/2"	2UJR2	10
3/4 to 1 1/8"	1/8"	2 7/8"	2UJP2	25
	1/8"	3 1/8"	2UJP3	10
	9/64"	3 5/16"	2UJP7	25
7/8 to 1"	11/64"	3 3/4"	2MVK1	25
	11/64"	3 1/2"	2UJR3	10
7/8" to 1"	19/64"	4 1/16"	3DYT6	10
1/8 to 1 1/16"	11/64"	2 3/16"	2UJP9	25
1/8 to 1 1/4"	11/64"	3 3/4"	2UJR4	10
1 1/8 to 1 1/2"	1/4"	5"	2MVK2	10
1 1/4 to 1 1/2"	1/4"	5 1/8"	1WFA7	10

Standard Clevis Pins



Flat-headed pins have a hole drilled in the opposite end. All pins meet ASME B18.8.1 standards.

Note: 316 stainless steel and plain finish steel clevis pins are also available; on Grainger.com®, search for "clevis pins."

Overall Length	Usable Length	Steel, Zinc-Plated Item No.	Steel, Zinc-Plated Pkg. Qty.	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.
3/16" Pin Dia.					
1/2"	23/64"	3HKT4	25	—	—
3/4"	39/64"	2MUC5	25	2XAV2	10
7/8"	47/64"	1BAP9	25	—	—
1"	55/64"	2MUC6	25	2XAV3	10
1 1/4"	1 7/64"	2MUC7	25	2XAV4	10
1 1/2"	1 23/64"	2MUC8	25	3HKR3	10
1 3/4"	1 39/64"	1BAU8	25	2XAV5	10
2"	1 55/64"	2MUC9	25	2XAV6	10
3"	2 55/64"	3HKT5	25	—	—
1/4" Pin Dia.					
1/2"	23/64"	—	—	2XAV8	10
3/4"	39/64"	2MUE3	25	3HKR4	10
7/8"	47/64"	2MUE5	25	—	—
1"	55/64"	2MUE6	25	3HKR5	10
1 1/4"	1 7/64"	2MUE8	25	3HKR7	10
1 1/2"	1 23/64"	2MUE9	25	3HKR8	10
1 5/8"	1 31/64"	1BAX7	25	2XAW1	10
1 3/4"	1 39/64"	2MUF1	25	3HKR9	10
1 7/8"	1 47/64"	1BAY2	25	2XAW2	5
2"	1 55/64"	2MUF2	25	2XAW3	5
2 1/4"	2 7/64"	2MUF3	25	2XAW4	5
2 1/2"	2 23/64"	2MUF4	25	2XAW6	5
2 3/4"	2 39/64"	1BAZ1	25	—	—
3"	2 55/64"	2MUF5	25	2XAW7	5
3 1/2"	3 23/64"	1BAZ5	25	—	—
5/16" Pin Dia.					
3/4"	1 7/32"	2MUF8	25	2XAW9	5
1"	25/32"	2MUH1	25	2XAX1	5
1 1/8"	29/32"	2MUH2	25	—	—
1 1/4"	1 1/32"	2MUH3	25	2XAX3	5
1 1/2"	1 9/32"	2MUH4	25	2XAX5	5
1 5/8"	1 13/32"	1BBB9	25	—	—
1 3/4"	1 17/32"	2MUH5	25	2XAX7	5
2"	1 25/32"	2MUH6	25	—	—
2 1/8"	1 29/32"	1BBC8	25	—	—
2 1/4"	2 1/32"	2MUH7	25	3HKT1	5
2 3/8"	2 5/32"	1BUC9	25	—	—
2 1/2"	2 9/32"	3HKT6	25	2XAX9	5
2 3/4"	2 17/32"	1BUE2	25	—	—
3"	2 25/32"	2MUH8	25	3HKT2	5
3 1/2"	3 9/32"	1BUE4	25	2XAY1	5
4"	3 25/32"	1BUE5	25	—	—

Overall Length	Usable Length	Steel, Zinc-Plated Item No.	Steel, Zinc-Plated Pkg. Qty.	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.
3/8" Pin Dia.					
1"	49/64"	2MUJ1	25	2XAY4	5
1 1/4"	57/64"	2MUJ2	25	2XAY5	5
1 1/4"	1 1/64"	2MUJ3	25	2XAY6	5
1 3/8"	1 9/64"	2MUJ4	25	—	—
1 1/2"	1 17/64"	2MUJ5	25	—	—
1 5/8"	1 25/64"	3HKT7	25	—	—
1 3/4"	1 33/64"	2MUJ6	25	2XAZ1	5
2"	1 49/64"	2MUJ7	25	2XAZ2	5
2 1/4"	2 1/64"	2MUJ8	25	2XAZ4	1
2 1/2"	2 17/64"	2MUJ9	10	—	—
2 3/4"	2 33/64"	2MUL1	10	—	—
3"	2 49/64"	2MUL2	10	2XAZ6	1
3 1/2"	3 17/64"	2MUL3	10	2XAZ7	1
4"	3 49/64"	2MUL4	10	2XAZ8	1
7/16" Pin Dia.					
1 1/4"	1 1/64"	2MUL5	10	—	—
1 1/2"	1 17/64"	2MUL6	10	2XAZ9	1
1 3/4"	1 33/64"	2MUL7	10	2MTX5	1
2"	1 49/64"	2MUL8	10	2MTX6	1
2 1/4"	2 1/64"	1PVL6	10	—	—
2 1/2"	2 17/64"	2MUL9	10	2MTX7	1
3"	2 49/64"	1PVT2	10	2MTX8	1
3 1/2"	3 17/64"	1PVU4	10	2MTX9	1
4"	3 49/64"	1PVX6	10	2MTY1	1
1/2" Pin Dia.					
1"	49/64"	2MUN2	10	—	—
1 1/4"	1 1/64"	2MUN3	10	2MTY3	1
1 3/8"	1 9/64"	1WEW8	10	—	—
1 1/2"	1 17/64"	2MUN5	10	2MTY4	1
1 3/4"	1 33/64"	2MUN6	10	2MTY5	1
2"	1 49/64"	2MUN7	10	2MTY6	1
2 1/4"	2 1/64"	2MUN8	10	2MTY7	1
2 1/2"	2 17/64"	2MUN9	10	2MTY8	1
2 5/8"	2 25/64"	1WEY4	10	—	—
2 3/4"	2 33/64"	2MUP1	10	2MTY9	1
3"	2 49/64"	2MUP2	10	2MTZ1	1
3 1/2"	3 17/64"	2MUP3	10	2MTZ2	1
4"	3 49/64"	2MUP4	10	2MTZ3	1
4 1/2"	4 17/64"	2MUP5	10	2MTZ4	1
5"	4 49/64"	2MUP6	5	2MTZ5	1
6"	5 49/64"	1WEZ9	5	—	—
9/16" Pin Dia.					
2"	1 49/64"	1WFA2	10	—	—
2 1/2"	2 17/64"	1WFA4	5	—	—
3"	2 49/64"	1WFA6	5	—	—

Overall Length	Usable Length	Steel, Zinc-Plated Item No.	Steel, Zinc-Plated Pkg. Qty.	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.
5/8" Pin Dia.					
1 1/2"	1 17/64"	2MUP7	10	—	—
1 3/4"	1 33/64"	2MUP8	10	2MTZ7	1
2"	1 49/64"	2MUP9	10	2MTZ8	1
2 1/4"	2 1/64"	2MUR1	5	2MTZ9	1
2 1/2"	2 17/64"	2MUR2	5	2MUA1	1
3"	2 49/64"	2MUR3	5	2MUA2	1
3 1/2"	3 17/64"	2MUR4	5	—	—
3/4" Pin Dia.					
2"	1 49/64"	3HKT8	5	—	—
2 1/2"	2 17/64"	3HKT9	5	—	—
2 3/4"	2 33/64"	3HKU1	5	—	—
3"	2 49/64"	2MUR5	5	—	—
3 1/2"	3 17/64"	2MUR6	5	—	—
3 3/4"	3 33/64"	1WFD7	5	—	—
4"	3 49/64"	3HKU2	1	—	—
4 1/2"	4 17/64"	3HKU3	1	—	—
5"	4 49/64"	2MUR7	1	—	—
6"	5 49/64"	1WFE6	1	—	—
6 1/2"	6 17/64"	2MUR8	1	—	—
7/8" Pin Dia.					
3"	2 45/64"	1WFF1	1	—	—
4"	3 45/64"	1WFF3	1	—	—
1" Pin Dia.					
2"	1 45/64"	2MUR9	1	—	—
2 1/2"	2 13/64"	2MUU2	1	—	—
2 3/4"	2 29/64"	2MUU3	1	—	—
3"	2 45/64"	2MUU4	1	—	—
3 1/4"	2 61/64"	2MUU5	1	—	—
3 1/2"	3 13/64"	2MUU6	1	—	—
4"	3 45/64"	2MUU7	1	—	—
4 1/2"	4 13/64"	2MUU8	1	—	—
5"	4 45/64"	1WFH5	1	—	—
6"	5 45/64"	2MUU9	1	—	—
1 1/8" Pin Dia.					
4"	3 3/8"	1WFH9	1	—	—
5"	4 3/8"	1WFJ2	1	—	—
6"	5 3/8"	1WFJ4	1	—	—
1 1/4" Pin Dia.					
4"	3 3/8"	1WFJ6	1	—	—
5"	4 3/8"	1WFJ8	1	—	—
6"	5 3/8"	1WFK1	1	—	—
1 1/2" Pin Dia.					
4"	3 3/8"	1WFK3	1	—	—
5"	4 3/8"	1WFK5	1	—	—
6"	5 3/8"	1WFK7	1	—	—



Cotter Pin

Cotter Pins

Meet ANSI/ASME 18.8 standards.

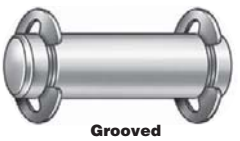
Note: 316 stainless steel and brass pins and bulk packaging also available on Grainger.com®, search for "bulk cotter pins."

Pin Dia.	Length	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.	Low Carbon Steel, Zinc-Plated Item No.	Low Carbon Steel, Zinc-Plated Pkg. Qty.
3/64"	1/2"	2UHX6	100	5UU54	100
1/16"	1/2"	2WZP6	100	2UHK2	100
	3/4"	2WZP7	100	—	—
	1"	2WZP8	100	—	—
	1 1/4"	2WZP9	100	—	—
	1 1/2"	2WZR1	100	2UHL1	100
3/32"	1/2"	2WZR2	100	2UHL5	100
	3/4"	2WZR3	100	—	—
	1"	2WZR4	100	—	—
	2"	—	—	2UHN5	100
1/64"	1"	—	—	2UHN9	100
1/8"	3/4"	2WZR5	100	—	—
	1"	2WZR6	100	—	—
	1 1/4"	2WZR7	100	2WZG6	100
	1 1/2"	2WZR8	100	2WZG8	100
	1 3/4"	—	—	2WZH1	100
	2"	2WZR9	100	2WZH3	100
	2 1/2"	2WZT1	100	2WZH5	100
	3"	—	—	2UHR1	100
5/32"	1"	2WZT2	100	2WZH7	100
	1 1/4"	—	—	2WZH9	100
	1 1/2"	2WZT3	100	2WZJ2	100
	1 3/4"	—	—	2WZJ4	100
	2"	2WZT4	100	2WZJ6	100
	2 1/2"	—	—	2WZJ8	50
3/16"	1"	2WZT5	100	2WZK6	100
	1 1/4"	2WZT6	100	—	—
	1 1/2"	2WZT7	100	2WZK7	50
	1 3/4"	2WZT8	50	—	—
	2"	2WZT9	50	2WZK8	50
	2 1/2"	2WZU1	50	2WZK9	50
	3"	2WZU2	50	2WZL1	50
1/4"	1 1/2"	2WZU3	50	2WZL2	50
	2"	2WZU4	25	2WZL4	50
	2 1/2"	2WZU5	25	2WZL6	50
	3"	2WZU6	25	2WZL8	50
5/16"	4"	—	—	2WZN1	25
	2"	—	—	2WZN3	50
	3"	—	—	2WZN5	25
	5"	3DZK6	10	—	—
3/8"	2 1/2"	—	—	2WZN7	25
	3"	—	—	2WZN9	25
	3 1/2"	—	—	2WZP2	25
	4"	—	—	2WZP4	25
1/2"	5"	3DZL1	10	—	—
	6"	2UHY9	5	—	—
	3"	2UHZ1	2	2UHV6	5
	4"	2UHZ2	2	2UHV8	5
	5"	2UHZ3	2	2UHW1	5
	6"	3DZL2	2	2UHW3	5

Grooved Head and Headless Clevis Pins



Grooved



Grooved Headless

- Stainless steel pins have stainless steel E rings
- Zinc-plated steel pins have a phosphate finish Meet ASME B18.8 standards.

Pin Dia.	Overall Length	Usable Length	Item No.
Grooved			
18-8 Stainless Steel			
3/16"	1/2"	13/32"	2XAA3
	3/4"	21/32"	3HKP6
	1"	29/32"	2XAA4
	1 1/4"	1 5/32"	2XAA5
	1 1/2"	1 13/32"	2XAA6
	2"	1 29/32"	2XAA7
	2 1/2"	2 13/32"	2XAA8
1/4"	1/2"	13/32"	2XAC1
	3/4"	21/32"	2XAC2
	1"	29/32"	2XAC3
	1 1/4"	1 5/32"	2XAC4
	1 1/2"	1 13/32"	2XAC5
	2"	1 29/32"	2XAC6
	2 1/2"	2 13/32"	2XAC8
	3"	2 29/32"	2XAC9
5/16"	3/4"	39/64"	2XAD1
	1"	55/64"	2XAD2
	1 1/4"	1 7/64"	2XAD3
	1 1/2"	1 23/64"	2XAD4
	2"	1 55/64"	2XAD5
3/8"	1"	27/32"	2XAD8
	1 1/4"	1 3/32"	2XAD9
	1 1/2"	1 11/32"	2XAE1
	2"	1 27/32"	2XAE2
	2 1/4"	2 3/32"	2XAE3
	2 1/2"	2 11/32"	2XAE4
	3"	2 27/32"	2XAE5

Pin Dia.	Overall Length	Usable Length	Item No.
1/2"	1 1/2"	1 11/32"	2XAE6
	2"	1 27/32"	2XAE7
	2 1/2"	2 11/32"	2XAE8
	3"	2 27/32"	2XAE9
Grooved Headless			
Zinc Plated Steel			
3/16"	1 1/2"	1 1/4"	2XAF2
1/4"	1 1/32"	3/4"	2XAF3
	1 9/32"	1"	2XAF4
5/16"	1 9/32"	3/4"	2XAF7
	1 11/32"	1"	2XAF8
	1 19/32"	1 1/4"	2XAF9
	1 27/32"	1 1/2"	2XAG1
3/8"	1 11/32"	1"	2XAG2
	1 19/32"	1 1/4"	2XAG3
	1 27/32"	1 1/2"	2XAG4
	2 11/32"	2"	2XAG5
1/2"	1 27/32"	1 1/4"	2XAG9
	1 29/32"	1 1/2"	2XAH1
	2 13/32"	2"	2XAH2
	2 29/32"	2 1/2"	2XAH3
	3 13/32"	3"	2XAH4





GA GRAINGER APPROVED

FABORY ITW Bee Leitzke

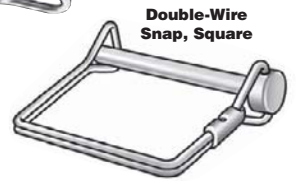
Safety Pins

- Zinc-plated spring steel

Usable Length	Overall Length	Wire Dia.	Brand	Item No.	Pkg. Qty.
Standard Duty Without Coil					
1¼"	1⅝"	0.047"	GA	**2UJG6**	**100**
1½"	1⅝₆₄"	0.047"	GA	**2UJG7**	**100**
2½"	3"	0.063"	Fabory	**2UJG8**	**100**
Coiled Tension					
15⁄16"	1⅜₁₆"	0.047"	Fabory	**2WZV5**	**25**
1 1⁄16"	1¾"	0.058"	Fabory	**2WZV6**	**25**
1 11⁄16"	2¾"	0.091"	Fabory	**2WZV7**	**25**
2 13⁄16"	4⅜"	0.120"	Itw Bee Leitzke	**2WZV8**	**10**
3¾"	5¾"	0.148"	Itw Bee Leitzke	**2WZV9**	**10**



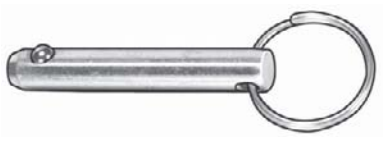




Snap Pins

Pin Dia.	Usable Length	Overall Length	Item No.	Pkg. Qty.
Coil Tension Snap				
Square, Steel				
¼"	3"	3 1 1⁄16"	**5VU70**	1
	3½"	4⅜₁₆"	**5VU73**	1
	4"	4 1 1⁄16"	**5VU76**	1
5⁄16"	3"	3 1 1⁄16"	**5VU79**	1
	4"	4 1 1⁄16"	**5VU82**	1
⅜"	3"	3 1 1⁄16"	**5VU85**	1
	3½"	4⅜₁₆"	**5VU88**	1
	4"	4 1 1⁄16"	**5VU91**	1
⅝"	4"	5¾"	**5VU94**	1
¾"	4"	5 16⁄23"	**5VU97**	1
	6"	7 16⁄23"	**5VV10**	1
Single Wire Tab Lock				
Round, Steel				
¼"	1¾"	2¼"	**3HLA2**	5
5⁄16"	1¾"	2"	**3HLA4**	5
⅜"	1¾"	2"	**3HLA6**	5
Square, Steel				
¼"	2½"	3"	**3HLA3**	5
5⁄16"	2½"	2¾"	**3HLA5**	5
⅜"	2½"	3"	**3HLA7**	5

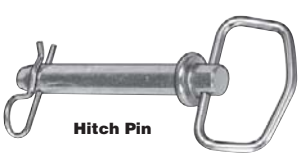
Pin Dia.	Usable Length	Overall Length	Item No.	Pkg. Qty.
Double Wire Snap				
Round, Steel				
¼"	1¾"	2 5⁄16"	**3HKP4**	1
	2½"	3 1⁄16"	**3DZN8**	1
5⁄16"	1⅜"	1⅞"	**5VU61**	1
	2½"	3 1⁄16"	**3DZN9**	1
⅜"	1⅜"	1 15⁄16"	**5VU67**	1
Square, Steel				
¼"	2¼"	2¾"	**5VU31**	1
	2½"	3"	**5VU34**	1
5⁄16"	2¼"	2¾"	**5VU37**	1
	2½"	3 1⁄16"	**3HKP5**	1
	3"	3 9⁄16"	**2UJG4**	1
⅜"	2¼"	2 13⁄16"	**5VU46**	1
	2½"	3 1⁄16"	**5VU49**	1
	3"	3 9⁄16"	**2UJG5**	1
Square, 18-8 Stainless Steel				
¼"	2½"	3"	**5VU16**	1
5⁄16"	2¼"	2¾"	**5VU19**	1
	2½"	3"	**5VU22**	1
⅜"	2¼"	2 13⁄16"	**5VU25**	1
	2½"	3 1⁄16"	**5VU28**	1



Ring Pins

Feature a ball detent locking mechanism.
Also known as detent or quick-release pins.

Pin Dia.	Length	Usable Length	Item No.	Pkg. Qty.
C1215/C1018 Steel, Zinc-Plated				
3⁄16"	1"	13⁄16"	**3HLJ7**	10
	1½"	1 5⁄16"	**3HLJ8**	10
	2"	1 13⁄16"	**3HLJ9**	10
¼"	1"	¾"	**3HLK1**	10
	1½"	1¼"	**3HLK2**	10
	2"	1¾"	**3HLK3**	10
	2½"	2¼"	**3HLK4**	10
	3"	2¾"	**3HLK5**	10
5⁄16"	2"	1⅝"	**3HLK6**	10
	2½"	2⅛"	**3HLK7**	10
	3"	2⅝"	**3HLK8**	10
⅜"	2"	1⅝"	**3HLK9**	5
	2½"	2⅛"	**3HLL1**	5
	3"	2⅝"	**3HLL2**	5
½"	2"	1½"	**3HLL4**	5
	2½"	2"	**3HLL5**	5
	3"	2.500"	**3HLL6**	5
	4"	3½"	**3HLL8**	5



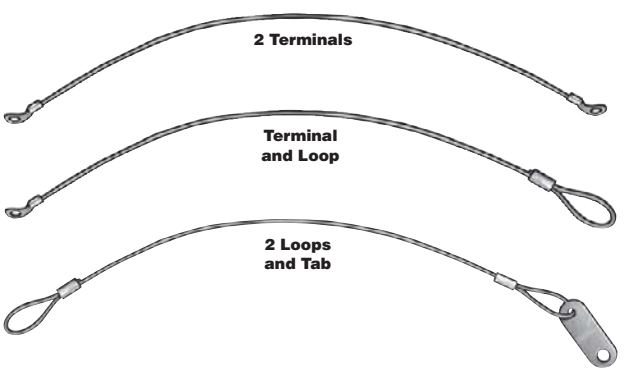




Hitch Pins

Include an easy-swivel, big-grip handle and high-tension hairpin cotter. Yellow zinc finish.

Pin Dia.	Hitch Pins: Usable Length	Hitch Pins: Length	Hitch Pins: Item No.	Hitch Pins: Pkg. Qty.	Hitch Pins With Lanyard: Usable Length	Hitch Pins With Lanyard: Length	Hitch Pins With Lanyard: Item No.	Hitch Pins With Lanyard: Pkg. Qty.	Bent Hitch Pins: Usable Length	Bent Hitch Pins: Item No.	Bent Hitch Pins: Pkg. Qty.
⅜"	4"	4⅜"	**3HLL9**	1	4"	4⅜"	**3HLP6**	1	4"	**3HLR8**	1
½"	4"	4¾"	**3HLN1**	1	4"	4¾"	**3HLP7**	1	2½"	**3HLR9**	1
	5¾"	6½"	**3HLN2**	1	5¾"	6½"	**3HLP8**	1	3"	**3HLT1**	1
	—	—	—	—	—	—	—	—	4"	**3HLT2**	1
⅝"	5¾"	6½"	**3HLN4**	1	6"	6¾"	**3HLR1**	1	4"	**3HLT4**	1
	6"	6¾"	**3HLN5**	1	—	—	—	—	—	—	—
	4"	4¾"	**3HLN3**	1	4"	4¾"	**3HLP9**	1	3"	**3HLT3**	1
¾"	4¼"	5"	**3HLN7**	1	6¼"	7"	**3HLR3**	1	4½"	**3HLT6**	1
	5¼"	6"	**3HLN8**	1	—	—	—	—	—	—	—
	6¼"	7"	**3HLN9**	1	—	—	—	—	—	—	—
	4"	4¾"	**3HLN6**	1	4¼"	5"	**3HLR2**	1	3½"	**3HLT5**	1
⅞"	4¼"	5¼"	**3HLP1**	1	6½"	7½"	**3HLR4**	1	—	—	—
1"	7"	8"	**3HLP3**	1	—	—	—	—	—	—	—
	4¾"	5¾"	**3HLP2**	1	6¾"	7¾"	**3HLR5**	1	4¾"	**3HLT7**	1
1 1⁄4"	7"	7¾"	**3HLP5**	1	—	—	—	—	—	—	—



Lanyards

ITW Bee Leitzke

Help prevent the loss of fasteners, and also secure 2 mating-type fasteners to one another. Stainless steel tab permits lanyards that have a tab to be screwed to a flat surface. 3⁄64" wire dia. nylon coated to 1⁄16".

Type	Pkg. Qty.	6" LENGTH Item No.	12" LENGTH Item No.	18" LENGTH Item No.
Stainless Steel, Nylon Coating				
2 Terminals	5	**3HLE7**	**3HLE8**	**3HLE9**
Terminal and Loop	5	**3HLF1**	**3HLF2**	**3HLF3**
2 Loops	5	**3HLF4**	**3HLF5**	**3HLF6**
2 Loops and Tab	5	**3HLF7**	**3HLF8**	**3HLF9**
Galvanized Steel, Zink Plated Copper Coating				
Terminal and Loop	10	—	**3HLD7**	—
Galvanized, Nylon Coating				
2 Terminals	10	**3HLD3**	**3HLD4**	**3HLD5**
Terminal and Loop	10	**3HLD6**	—	**3HLD8**
2 Loops	10	**3HLD9**	**3HLE1**	**3HLE2**
2 Loops and Tab	5	**3HLE3**	**3HLE4**	**3HLE5**

Dowel Pins

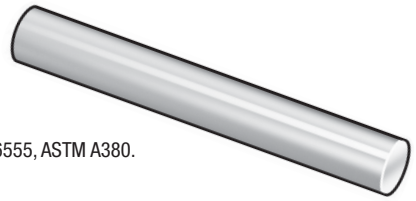
Note: A1 metric, 416 and 18-8 stainless steel dowel pins are also available; on Grainger.com®, search for "dowel pins."

Plain Alloy Steel
- Length tolerance: ±0.012"

Hardened Steel Metric—Solid cylindrical pins are chamfered on 1 end for easy insertion and feature a smooth radius on the other end for easy removal. Meet DIN 6325/ISO 8734A m6 standard.

416 Stainless Steel Metric Dowel Pins
- Length tolerance: +0.5/-0.0mm

416 Stainless Steel—Meet MS16555, ASTM A380.
- Length tolerance: ±0.010"



Nom. Dia.	Length	Item No.	Pkg. Qty.
Standard			
Alloy Steel, Black Oxide Finish			
1/8"	3/8"	6VKC0	100
	1/2"	6VKC1	100
	5/8"	6VKC2	100
	3/4"	6VKC3	100
	1"	6VKD2	100
3/16"	3/4"	6VKA9	100
	1/2"	6VKC4	100
	1"	6VKC5	100
	1 1/4"	6VKC6	100
	1 1/2"	6VKC7	100
1/4"	1/2"	6VKC8	100
	3/4"	6VKC9	100
	1 1/4"	6VKD0	100
	1 1/2"	6VKD1	100
	2"	6VKD4	100
	2 1/2"	6VKE3	100
5/16"	1"	6VKD3	100
	1 1/4"	6VKD6	100
	1 1/2"	6VKD7	100
	2"	6VKD8	100
3/8"	1"	6VKD9	100
	1 1/2"	6VKE0	100
	2"	6VKE1	100
1/2"	2"	6VKD5	20
	1 1/2"	6VKE2	20
	2 1/2"	6VKE4	20
	1"	6VKE9	20
5/8"	2"	6VKE5	10
	3"	6VKE6	10
Alloy Steel, Plain Finish			
1/16"	1/8"	2MA84	100
	3/16"	2MA85	100
	1/4"	2MA86	100
	3/8"	2MA88	100
	1/2"	2MA90	100
	3/4"	2MA93	100
	1"	2MA95	100
	1 1/4"	2MA96	5
	1 1/2"	2MA97	5
3/32"	5/16"	2MB11	100
	3/8"	2MB12	100
	7/16"	2MB13	100
	1/2"	2MB14	100
	5/8"	2MB16	100
	3/4"	2MB17	100
	1"	2MB19	100
	1 1/4"	2MB20	5
	2"	2MB22	5
1/8"	3/16"	2MB23	100
	1/4"	2MB24	100
	5/16"	2MB25	100
	3/8"	2MB26	100
	1/2"	2MB28	100
	5/8"	2MB30	100
	3/4"	2MB31	100
	7/8"	2MB32	100
	1"	2MB33	100
	1 1/8"	2MB34	100
	1 1/4"	2MB35	100
	1 1/2"	2MB36	100
	1 3/4"	2MB37	50
	2"	2MB38	50
	2 1/2"	2MB40	5
	3"	2MB42	5
5/32"	1/2"	2MB45	25
	5/8"	2MB46	25
	3/4"	2MB47	25
	7/8"	2MB48	25
	1"	2MB49	10
	1 1/4"	2MB50	10
	1 1/2"	2MB51	10
	2"	2MB53	10

Nom. Dia.	Length	Item No.	Pkg. Qty.
3/16"	1/4"	2MB54	100
	3/8"	2MB56	100
	7/16"	2MB57	100
	1/2"	2MB58	100
	9/16"	2MB59	100
	5/8"	2MB60	100
	3/4"	2MB61	100
	7/8"	2MB62	100
	1"	2MB63	100
	1 1/4"	2MB65	100
	1 1/2"	2MB66	50
	1 3/4"	2MB67	50
	2"	2MB68	50
	2 1/4"	2MB69	5
	2 1/2"	2MB70	5
	2 3/4"	2MB71	5
	3"	2MB72	5
1/4"	3/8"	2MB73	100
	7/16"	2MB74	25
	1/2"	2MB75	100
	5/8"	2MB77	100
	3/4"	2MB78	100
	7/8"	2MB79	100
	1"	2MB80	100
	1 1/4"	2MB82	50
	1 1/2"	2MB83	50
	2"	2MB85	50
	2 1/4"	2MB86	100
	2 1/2"	2MB87	50
	2 3/4"	2MB88	5
	3"	2MB89	5
	3 1/2"	2MB90	5
5/16"	1/2"	2MB91	50
	5/8"	2MB92	50
	3/4"	2MB93	50
	1"	2MB95	50
	1 1/4"	2MB96	50
	1 1/2"	2MB97	50
	1 3/4"	2MB98	25
	2"	2MB99	25
	2 1/4"	2ME10	25
	2 1/2"	2ME11	25
	2 3/4"	2ME12	25
	3"	2ME13	25
	4"	2ME15	5
3/8"	1/2"	2ME16	50
	3/4"	2ME18	50
	7/8"	2ME19	50
	1"	2ME20	25
	1 1/4"	2ME21	25
	1 1/2"	2ME22	25
	1 3/4"	2ME23	25
	2"	2ME24	25
	2 1/4"	2ME25	25
	2 1/2"	2ME26	25
	3"	2ME27	10
	3 1/2"	2ME28	5
	4"	2ME29	5
7/16"	1"	2ME30	10
	1 1/4"	2ME31	10
	1 1/2"	2ME32	10
	2"	2ME33	10
	2 1/2"	2ME34	10
	3"	2ME35	10
	4"	2ME36	10
1/2"	1/2"	2ME37	5
	3/4"	2ME38	10
	7/8"	2ME39	10
	1"	2ME40	10
	1 1/4"	2ME41	10
	1 1/2"	2ME42	10
	1 3/4"	2ME43	5
	2"	2ME44	10
	2 1/4"	2ME45	10
	2 1/2"	2ME46	10
	2 3/4"	2ME47	10
	3"	2ME48	10
	3 1/2"	2ME49	10
	4"	2ME50	5
	5"	2ME52	5

Nom. Dia.	Length	Item No.	Pkg. Qty.
5/8"	3/4"	2ME53	10
	1"	2ME54	10
	1 1/4"	2ME55	10
	1 1/2"	2ME56	10
	2"	2ME57	5
	1 3/4"	2ME59	5
	2 1/2"	2ME60	5
	3"	2ME62	5
	3 1/2"	2ME63	5
	4"	2ME64	5
	4 1/2"	2ME65	5
	5"	2ME66	5
	6"	2ME67	1
3/4"	1"	2ME68	5
	1 1/4"	2ME69	5
	1 1/2"	2ME70	5
	1 3/4"	2ME71	5
	2"	2ME72	5
	2 1/4"	2ME73	5
	2 1/2"	2ME74	5
	3"	2ME76	5
	3 1/2"	2ME77	1
	4"	2ME78	1
	5"	2ME80	1
	6"	2ME81	1
7/8"	2"	2ME82	1
	3"	2ME84	1
	3 1/2"	2ME85	1
1"	2"	2ME89	1
	2 1/2"	2ME91	1
	3"	2ME93	1
	3 1/2"	2ME94	1
	4"	2ME95	1
	4 1/2"	2ME96	1
	5"	2ME97	1
Hardened Steel, Plain Finish			
M12	100mm	1UB14	5
M16	36mm	1UB15	5
	45mm	1UB17	5
	70mm	1UB20	5
M2	6mm	1TY51	100
	10mm	1TY55	100
	12mm	1TY57	100
M3	6mm	1TY73	100
	8mm	1TY75	100
	10mm	1TY77	100
	12mm	1TY79	100
	16mm	1TY81	100
	18mm	1TY83	100
	20mm	1TY84	100
	22mm	1TY86	50
	24mm	1TY88	100
M4	8mm	1TY96	100
	10mm	1TY98	100
	12mm	1UA10	100
	14mm	1UA12	100
	16mm	1UA14	100
	18mm	1UA16	100
	20mm	1UA18	100
	22mm	1UA20	50
	24mm	1UA22	50
	28mm	1UA24	50
	30mm	1UA26	50
	32mm	1UA28	50
	40mm	1UA30	50
M5	10mm	1UA32	50
	12mm	1UA34	50
	14mm	1UA36	50
	16mm	1UA38	50
M6	22mm	1UA57	50
Press Fit			
416 Stainless Steel			
M10	30mm	5EDK4	10
	40mm	5EDK5	10
M2	5mm	5EDE2	10
	8mm	5EDE4	10
M2.5	10mm	5EDF4	10
M3	8mm	5EDG1	10
	10mm	5EDG2	10
	20mm	5EDG6	10
	24mm	5EDG7	10

Nom. Dia.	Length	Item No.	Pkg. Qty.
M4	10mm	5EDG8	10
	12mm	5EDG9	10
	14mm	5EDH0	10
	16mm	5EDH1	10
	20mm	5EDH2	10
M5	12mm	5EDH5	10
	16mm	5EDH6	10
	20mm	5EDH7	10
	24mm	5EDH8	10
	30mm	5EDH9	10
M6	16mm	5EDJ1	10
	20mm	5EDJ2	10
	24mm	5EDJ3	10
	30mm	5EDJ4	10
	40mm	5EDJ5	10
M8	24mm	5EDJ8	10
	30mm	5EDJ9	10
Oversized, Mil Spec			
1/16"	3/16"	5EEF9	25
	3/8"	5EEG2	25
	7/16"	5EEG3	25
	1/2"	5EEG4	25
	5/8"	5EEG5	25
	3/4"	5EEG6	25
5/64"	1/4"	5EEG7	25
3/32"	5/16"	5EEG8	25
	1/2"	5EEH1	25
1/8"	3/8"	5EEH6	25
	1/2"	5EEH8	25
	5/8"	5EEH9	25
	3/4"	5EEJ0	25
	7/8"	5EEJ1	25
	1"	5EEJ2	25
	1 1/4"	5EEJ3	25
	1 1/2"	5EEJ4	25
5/32"	7/8"	5EEJ8	25
	1"	5EEJ9	25
3/16"	5/8"	5EEK1	25
	1"	5EEK4	25
	1 1/4"	5EEK5	25
	1 1/2"	5EEK6	25
1/4"	3/4"	5EEK7	25
	1"	5EEK9	25
	1 1/2"	5EEL1	25
	2"	5EEL3	25
5/16"	1 1/4"	5EEL5	25
3/8"	1 1/4"	5EEN0	25
	1 1/2"	5EEN1	25
	2"	5EEN3	25
	2 1/2"	5EEN5	25



Slotted Spring Pins

Note: 420 stainless steel and zinc-plated carbon steel pins are also available; on Grainger.com®, search for "slotted spring pins."

Nominal Dia.	Actual Dia. Min. to Max.	Wall Thickness
Standard		
1/16"	0.066 to 0.069"	0.012"
5/64"	0.083 to 0.086"	0.018"
3/32"	0.099 to 0.103"	0.022"
1/8"	0.131 to 0.135"	0.028"
5/32"	0.162 to 0.167"	0.032"
3/16"	0.194 to 0.199"	0.040"
7/32"	0.226 to 0.232"	0.048"
1/4"	0.258 to 0.264"	0.048"
5/16"	0.321 to 0.330"	0.062"
3/8"	0.385 to 0.395"	0.077"
7/16"	0.448 to 0.459"	0.077"
1/2"	0.513 to 0.524"	0.094"
5/8"	0.640 to 0.653"	0.118"
Metric		
M1.5	1.70 to 1.80mm	0.30mm
M2	2.30 to 2.40mm	0.40mm
M2.5	2.80 to 2.90mm	0.50mm
M3	3.30 to 3.50mm	0.60mm
M4	4.40 to 4.60mm	0.80mm
M5	5.40 to 5.60mm	1.00mm
M6	6.40 to 6.70mm	1.20mm
M8	8.50 to 8.80mm	1.50mm
M10	10.50 to 10.80mm	2.00mm
M11	12.50 to 12.80mm	2.50mm

Overall Length	Item No.	Pkg. Qty.
302 Stainless Steel		
1/16" Dia. 250 Shear Strength (Lbs.)		
1/4"	5BU67	100
5/16"	5BU68	100
3/8"	5BU69	100
7/16"	5BU70	100
1/2"	5BU71	100
5/8"	5BU72	100
3/4"	5BU73	100
7/8"	5BU74	100
1"	5BU75	100
5/64" Dia. 460 Shear Strength (Lbs.)		
5/16"	5BU77	100
1/2"	5BU80	100
5/8"	5BU81	100
3/4"	5BU82	100
1"	5BU83	100
1 1/2"	5BU84	100
3/32" Dia. 670 Shear Strength (Lbs.)		
1/4"	5BU85	100
3/8"	5BU87	100
7/16"	5BU88	100
1/2"	5BU89	100
9/16"	5BU90	100
5/8"	5BU91	100
3/4"	5BU92	100
7/8"	5BU93	100
1"	5BU94	100
1 1/8"	5BU95	100
1 1/4"	5BU96	100
1 1/2"	5BU97	100

Overall Length	Item No.	Pkg. Qty.
1/8" Dia. 1090 Shear Strength (Lbs.)		
1/4"	5BU98	100
5/16"	5BU99	100
3/8"	5BY10	100
7/16"	5BY11	100
1/2"	5BY12	100
9/16"	5BY13	100
5/8"	5BY14	100
3/4"	5BY16	100
7/8"	5BY17	100
1"	5BY18	100
1 1/8"	5BY19	100
1 1/4"	5BY20	100
1 3/8"	5BY21	100
1 1/2"	5BY22	100
1 3/4"	5BY23	100
2"	5BY24	100
5/32" Dia. 1600 Shear Strength (Lbs.)		
1/2"	5BY25	100
5/8"	5BY26	100
3/4"	5BY27	100
1"	5BY29	100
1 1/8"	5BY30	100
1 1/4"	5BY31	100
1 1/2"	5BY32	100
1 3/4"	5BY33	50
2"	5BY34	50
2 1/2"	5BY35	50
3/16" Dia. 2425 Shear Strength (Lbs.)		
3/8"	5BY36	100
1/2"	5BY37	100
5/8"	5BY38	100
3/4"	5BY40	100
7/8"	5BY41	100
1"	5BY42	100
1 1/4"	5BY43	50
1 3/8"	5BY44	50
1 1/2"	5BY45	50
1 3/4"	5BY46	50
2"	5BY47	50
2 1/4"	5BY48	50
2 1/2"	5BY49	50
7/32" Dia. 3400 Shear Strength (Lbs.)		
1/2"	5BY50	50
3/4"	5BY52	50
1"	5BY53	50
1 1/4"	5BY54	50
1 1/2"	5BY55	50
1 3/4"	5BY56	25
2"	5BY57	25
2 1/2"	5BY58	25

Overall Length	Item No.	Pkg. Qty.
1/4" Dia. 4100 Shear Strength (Lbs.)		
1/2"	5BY59	50
5/8"	5BY60	50
3/4"	5BY61	50
7/8"	5BY62	50
1"	5BY63	50
1 1/8"	5BY64	50
1 1/4"	5BY65	50
1 3/8"	5BY66	50
1 1/2"	5BY67	50
1 3/4"	5BY69	25
2"	5BY70	25
2 1/4"	5BY71	25
2 1/2"	5BY72	25
3"	5BY73	10
3 1/2"	5BY74	10
5/16" Dia. 6300 Shear Strength (Lbs.)		
3/4"	5BY75	25
1"	5BY76	25
1 1/4"	5BY77	25
1 1/2"	5BY78	25
1 3/4"	5BY79	25
2"	5BY80	10
2 1/2"	5BY82	10
3"	5BY83	10
3 1/2"	5BY84	10
4"	5BY85	10
3/8" Dia. 9500 Shear Strength (Lbs.)		
3/4"	5BY86	10
1"	5BY87	10
1 1/4"	5BY88	10
1 1/2"	5BY89	10
1 3/4"	5BY90	10
2"	5BY91	10
2 1/4"	5BY92	10
2 1/2"	5BY93	10
2 3/4"	5BY94	10
3"	5BY95	10
3 1/2"	5BY96	5
4"	5BY97	5
7/16" Dia. 11,500 Shear Strength (Lbs.)		
2"	5BY98	5
3"	5CA10	5
1/2" Dia. 15,800 Shear Strength (Lbs.)		
1 1/2"	5CA14	5
2"	5CA16	5
3"	5CA18	5
4"	5CA20	5
M10 Dia. 15,773 Shear Strength (Lbs.)		
30mm	5DE98	5
40mm	5DU10	5
60mm	5DU14	1
M2.5 Dia. 985 Shear Strength (Lbs.)		
10mm	5DB90	25
20mm	5DB92	25
30mm	5DB94	25
M2 Dia. 634 Shear Strength (Lbs.)		
12mm	5DB76	25
30mm	5DB88	25

Overall Length	Item No.	Pkg. Qty.
M3 Dia. 1421 Shear Strength (Lbs.)		
10mm	5DB98	25
14mm	5DE10	25
16mm	5DE12	25
20mm	5DE16	10
30mm	5DE24	10
40mm	5DE26	10
M4 Dia. 2527 Shear Strength (Lbs.)		
20mm	5DE38	10
26mm	5DE42	10
30mm	5DE44	10
45mm	5DE48	10
50mm	5DE50	10
M5 Dia. 3943 Shear Strength (Lbs.)		
16mm	5DE54	10
20mm	5DE56	10
26mm	5DE60	10
30mm	5DE62	10
40mm	5DE64	10
50mm	5DE66	10
M6 Dia. 5854 Shear Strength (Lbs.)		
20mm	5DE72	10
30mm	5DE78	10
40mm	5DE80	10
45mm	5DE82	10
50mm	5DE84	5
60mm	5DE86	10
M8 Dia. 9613 Shear Strength (Lbs.)		
22mm	5DE88	10
30mm	5DE90	10
40mm	5DE92	5
60mm	5DE96	1
Carbon Steel		
1/16" Dia. 430 Shear Strength (Lbs.)		
3/8"	5CU76	500
1/2"	5CU80	500
3/4"	5CU84	500
1"	5CU88	500
1/8" Dia. 1875 Shear Strength (Lbs.)		
1/4"	5CY39	500
3/16" Dia. 4150 Shear Strength (Lbs.)		
3/8"	5CY97	500
5/16" Dia. 10,800 Shear Strength (Lbs.)		
1 1/2"	5DA94	100
5/8" Dia. 27,100 Shear Strength (Lbs.)		
3"	5DB60	1
M10 Dia. 15,773 Shear Strength (Lbs.)		
24mm	5DV58	25
30mm	5DV60	25
40mm	5DV62	25
50mm	5DV64	25
60mm	5DV66	25
80mm	5DV68	10
M12 Dia. 23,403 Shear Strength (Lbs.)		
30mm	5DV70	10
40mm	5DV72	10
50mm	5DV74	10
60mm	5DV76	10

Overall Length	Item No.	Pkg. Qty.
M2.5 Dia. 985 Shear Strength (Lbs.)		
20mm	5DU42	200
30mm	5DU44	100
M2 Dia. 634 Shear Strength (Lbs.)		
6mm	5DU22	200
10mm	5DU26	200
12mm	5DU28	200
18mm	5DU34	200
20mm	5DU36	200
24mm	5DU38	200
30mm	5DU40	200
M3 Dia. 1421 Shear Strength (Lbs.)		
8mm	5DU46	200
10mm	5DU48	200
12mm	5DU49	200
14mm	5DU51	200
16mm	5DU53	200
18mm	5DU55	200
20mm	5DU57	200
24mm	5DU59	100
26mm	5DU61	100
30mm	5DU63	100
40mm	5DU65	100
M4 Dia. 2527 Shear Strength (Lbs.)		
10mm	5DU67	100
12mm	5DU70	100
16mm	5DU74	100
20mm	5DU77	100
24mm	5DU79	100
26mm	5DU81	100
30mm	5DU83	100
32mm	5DU86	100
40mm	5DU88	100
50mm	5DU92	100
M5 Dia. 3943 Shear Strength (Lbs.)		
16mm	5DU96	100
20mm	5DU98	100
24mm	5DV12	100
26mm	5DV14	100
30mm	5DV16	100
40mm	5DV18	100
50mm	5DV20	100
M6 Dia. 5854 Shear Strength (Lbs.)		
12mm	5DV22	100
16mm	5DV26	100
20mm	5DV28	100
24mm	5DV30	100
26mm	5DV32	100
30mm	5DV34	100
40mm	5DV36	100
45mm	5DV38	50
50mm	5DV40	50
60mm	5DV42	25
M8 Dia. 9613 Shear Strength (Lbs.)		
22mm	5DV44	50
26mm	5DV46	50
30mm	5DV48	50
40mm	5DV50	50
50mm	5DV52	50
60mm	5DV56	25



Carbon Steel Coiled Spring Pins

Reusable pins absorb and distribute shock-and-vibration throughout the pin cross-section. Meet ASME standard.

Note: 420 stainless steel are also available; on Grainger.com®, search for "coiled spring pins."

Length	Fits Hole Dia.	Actual Dia.	Item No.	Pkg. Qty.
Standard Duty				
1/16" Dia. 330 Shear Strength (Lbs.)				
5/16"	0.061-0.065"	0.067-0.072"	5EA62	100
3/4"	0.061-0.065"	0.067-0.072"	5EA66	100
1"	0.061-0.065"	0.067-0.072"	5EA68	100
5/64" Dia. 550 Shear Strength (Lbs.)				
1"	0.077-0.081"	0.083-0.088"	5EA80	100
3/32" Dia. 775 Shear Strength (Lbs.)				
1/4"	0.093-0.097"	0.099-0.105"	5EA82	100
1 1/2"	0.093-0.097"	0.099-0.105"	5EA94	100
1/8" Dia. 1400 Shear Strength (Lbs.)				
1/4"	0.124-0.129"	0.131-0.138"	5EA96	100
1 1/2"	0.124-0.129"	0.131-0.138"	5EB22	100
2"	0.124-0.129"	0.131-0.138"	5EB24	100
3/16" Dia. 3150 Shear Strength (Lbs.)				
1/2"	0.185-0.192"	0.196-0.205"	5EB40	100
2 1/2"	0.185-0.192"	0.196-0.205"	5EB50	50
7/32" Dia. 3800 Shear Strength (Lbs.)				
3/4"	0.217-0.224"	0.228-0.238"	5EB51	50
1"	0.217-0.224"	0.228-0.238"	5EB53	50
1 1/2"	0.217-0.224"	0.228-0.238"	5EB55	50
2"	0.217-0.224"	0.228-0.238"	5EB57	50

Length	Fits Hole Dia.	Actual Dia.	Item No.	Pkg. Qty.
1/4" Dia. 5500 Shear Strength (Lbs.)				
2 1/2"	0.247-0.256"	0.260-0.271"	5EB69	50
3 1/2"	0.247-0.256"	0.260-0.271"	5EB73	50
9/16" Dia. 8700 Shear Strength (Lbs.)				
4"	0.308-0.319"	0.324-0.337"	5EB88	10
3/8" Dia. 12,600 Shear Strength (Lbs.)				
1"	0.370-0.383"	0.388-0.403"	5EB90	10
Heavy Duty				
3/32" Dia. 1150 Shear Strength (Lbs.)				
1/4"	0.093-0.097"	0.098-0.103"	5EE12	100
1 1/2"	0.093-0.097"	0.098-0.103"	5EE23	100
1/8" Dia. 2000 Shear Strength (Lbs.)				
7/16"	0.124-0.129"	0.130-0.136"	5EE27	100
1 1/2"	0.124-0.129"	0.130-0.136"	5EE41	50
2"	0.124-0.129"	0.130-0.136"	5EE43	50
3/16" Dia. 4500 Shear Strength (Lbs.)				
2 1/2"	0.185-0.192"	0.194-0.202"	5EE54	25
1/4" Dia. 7800 Shear Strength (Lbs.)				
1 1/8"	0.247-0.256"	0.258-0.268"	5EE58	25
5/16" Dia. 12,000 Shear Strength (Lbs.)				
1"	0.308-0.319"	0.322-0.334"	5EE68	5

ITW Bee Leitzke GA GRAINGER APPROVED

Retaining Ring Assortments


E-Style Retaining Ring


External Retaining Ring


Internal Retaining Ring


No. 6LD28

No. of Sizes	No. of Pieces	Includes	Brand	Item No.
E-Style Retaining Ring Assortment				
9	300	(50) Each: E-25x1/4", E-37x3/8", (40) Each: E-18x3/16", E-50x1/2", (30) Each: E-6x1/16", E-12x1/8", (20) Each: E-62x5/8", E-75x3/4", E-87x7/8", and Plastic Container	Itw Bee Leitzke	**4F414**
12	240	Groove Diameter (20) Each: 2.3mm, 3.2mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 12mm, 15mm, 19mm	GA	**4KGD4**
12	255	(25) Each: E-12x1/8", E-15x5/32", E-18x3/16", SE-21x7/32", E-25x1/4", SE-31x5/16", E-37x3/8", E-43x7/16", E-50x1/2", (10) Each: E-62x5/8", E-75x3/4", E-87x7/8", and Plastic Container	GA	**6LD26**
External Retaining Ring Assortment				
12	218	(30) Each: SH-37x3/8", SH-50x1/2", (20) Each: SH-25x1/4", SH-31x5/16", SH-43x7/16", SH-56x9/16", SH-62x5/8", SH-75x3/4", (15) Each: SH-87x7/8", (10) Each: SH-81x13/16", SH-100x1", (3) Each: SH-125x1-1/4", and Plastic Container	Itw Bee Leitzke	**4F412**
12	240	(25) Each: SH-25x1/4", SH-31x5/16", SH-37x3/8", SH-43x7/16", SH-50x1/2", SH-56x9/16", SH-62x5/8", SH-75x3/4", (10) Each: SH-81x13/16", SH-87x7/8", SH-100x1", SH-125x1-1/4", and Plastic Container	GA	**6LD35**
12	240	Shaft Diameter (20) Each: 8mm, 9mm, 10mm,12mm, 14mm,15mm, 16mm, 18mm, 19mm, 20mm, 22mm, 24mm	GA	**4KGD2**
21	273	(25) Each: SH-25x1/4", SH-31x5/16", SH-37x3/8", SH-43x7/16", SH-50x1/2", SH-56x9/16", SH-62x5/8", SH-75x3/4", (10) Each: SH-81x13/16", SH-87x7/8", SH-100x1", SH-125x1-1/4" and (5) Each: SH-131x1-5/16", SH-137x1-3/8", SH-150x1-1/2", SH-162x1-5/8", SH-175x1-3/4", (2) Each: SH-200x2", SH-225x2-1/4", SH-250x2-1/2", SH-262x2-5/8", and Plastic Container	GA	**6LD37**
External and E-Style Retaining Ring Assortment				
23	540	E-Rings (30) Each: E-12x1/8", E-18x3/16", E-25x1/4", E-31x5/16", E-37x3/8", E-62x5/8", (25) Each: E-43x7/16", E-50x1/2", SE-74x3/4", (20) Each: E-87x7/8", External Rings (30) Each: SH-37x3/8", SH-50x1/2", (25) Each: SH-31x5/16", SH-62x5/8", SH-75x3/4", SH-98x63/64", (20) Each: SH-43x7/16", SH-93x15/16", SH-100x1", (15) Each: SH-112x1-1/8", (10) Each: SH-125x1-1/4", SH-137x1-3/8", SH-150x1-1/2", Plastic Container, and Retaining Ring Pliers	Itw Bee Leitzke	**5A203**
Internal Retaining Ring Assortment				
12	180	(25) Each: HO-25x1/4", HO-37x3/8", HO-50x1/2", HO-62x5/8", HO-75x3/4", (10) Each: HO-87x7/8", HO-100x1", HO-112x1-1/8", HO-125x1-1/4", (5) Each: HO-150x1-1/2", HO-162x1-5/8", HO-175x1-3/4" and Plastic Container	GA	**6LD28**
12	218	(30) Each: HO-37x3/8", HO-50x1/2", (20) Each: HO-25x1/4", HO-31x5/16", HO-43x7/16", HO-56x9/16", HO-62x5/8", HO-75x3/4", (15) Each: HO-87x7/8", (10) Each: HO-81x13/16", HO-100x1", (3) Each: HO-125x1-1/4", and Plastic Container	Itw Bee Leitzke	**4F413**
12	240	Bore Diameter (20) Each: 8mm, 9mm, 10mm,12mm, 14mm,15mm, 16mm, 18mm, 19mm, 20mm, 22mm, 24mm	GA	**4KGD3**
23	395	(25) Each: HO-25x1/4", HO-37x3/8", HO-50x1/2", HO-56x9/16", HO-62x5/8", (20) Each: HO-75x3/4", HO-77x0.777", HO-81x13/16", HO-87x7/8", HO-90x0.901", HO-93x15/16", HO-102x1.023", (15) Each: HO-100x1", HO-112x1-1/8", HO-118x1-3/16", HO-125x1-1/4", (10) Each: HO-106x1-1/16", HO-131x1-5/16", HO-137x1-3/8", HO-143x1-7/16", HO-150x1-1/2", HO-156x1-9/16", HO-162x1-5/8", Plastic Case, and Retaining Ring Pliers	Itw Bee Leitzke	**5A204**
25	243	(25) Each: HO-37x3/8", HO-43x7/16", HO-50x1/2", HO-62x5/8", HO-68x11/16", HO-75x3/4", (10) Each: HO-81x13/16", HO-87x7/8", HO-100x1", HO-106x1-1/16", HO-112x1-1/8", HO-125x1-1/4", (5) Each: HO-137x1-3/8", HO-150x1-1/2", (3) Each: HO-162x1-5/8", HO-175x1-3/4", HO-187x1-7/8", HO-200x2", (2) Each: HO-225x2-1/4", HO-237x2-3/8", HO-250x2-1/2", HO-262x2-5/8", (1) Each: HO-275x2-3/4", HO-287x2-7/8", HO-300x3", and Plastic Container	GA	**6LD30**
Internal, External, and E-Style Retaining Ring Assortment				
24	480	E-Rings (25) Each: DE-3.2x3.2mm, DE-4x4mm, DE-5x5mm, DE-6x6mm, DE-7x7mm, DE-8x8mm, DE-10x10mm, DE-12x12mm, Internal Rings (25) Each: DHO-8x8mm, DHO-10x10mm, DHO-12x12mm, DHO-14x14mm, (10) Each: DHO-16x16mm, DHO-18x18mm, DHO-20x20mm, DHO-24x24mm, External Rings (25) Each: DSH-8x8mm, DSH-10x10mm, DSH-12x12mm, DSH-14x14mm, (10) Each: DSH-16x16mm, DSH-18x18mm, DSH-20x20mm, DSH-24x24mm	GA	**6LD33**
Internal and External Retaining Ring Assortment				
20	221	Internal Rings (15) Each: HO-37x3/8", HO-43x7/16", HO-50x1/2", (10) Each: HO-56x9/16", HO-62x5/8", HO-75x3/4", (9) Each: HO-87x7/8", HO-93x15/16", (8) Each: HO-100x1", HO-102x1.023", External Rings (20) Each: SH-25x1/4", SH-31x5/16", (15) Each: SH-37x3/8", SH-43x7/16", (10) Each: SH-50x1/2", (8) Each: SH-62x5/8", SH-68x11/16", (6) Each: SH-75x3/4", (5) Each: SH-78x25/32", SH-87x7/8", Plastic Container, and Retaining Ring Pliers	Itw Bee Leitzke	**4F420**
20	410	Internal Rings (25) Each: HO-37x3/8", HO-43x7/16", HO-50x1/2", HO-56x9/16", HO-62x5/8", HO-75x3/4", (10) Each: HO-87x7/8", HO-100x1", HO-112x1-1/8", HO-125x1-1/4", External Rings (25) Each: SH-25x1/4", SH-31x5/16", SH-37x3/8", SH-43x7/16", SH-50x1/2", SH-62x5/8", SH-68x11/16", SH-75x3/4", (10) Each: SH-87x7/8", SH-100x1", and Plastic Container	GA	**6LD32**

E-Style External Retaining Rings

Provide a large shoulder on small-diameter shafts. Snap directly into deep grooves from the side of the shaft to ensure extra thrust capacity. Inch-system rings meet ASME standard; metric-system rings meet DIN standard.

Note: Zinc-plated steel retaining rings are also available; on Grainger.com®, search for "retaining rings."


E-Style

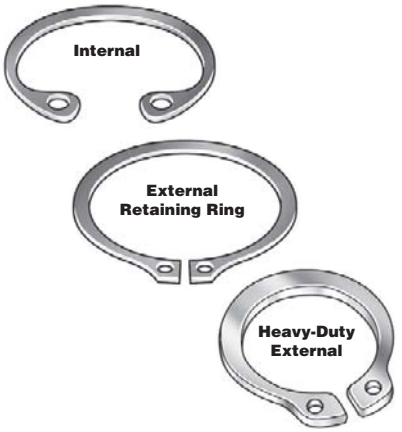
For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	BLACK PHOSPHATE STEEL Item No.	BLACK PHOSPHATE STEEL Pkg. Qty.	STAINLESS STEEL Item No.	STAINLESS STEEL Pkg. Qty.
E Style Retaining Ring									
1/16"	0.052"	0.012"	0.051"	0.140"	0.010"	**5DY81**	100	**5DE39**	100
3/32"	0.074"	0.020"	0.073"	0.187"	0.015"	—	—	**5DE41**	100
1/64"	0.079"	0.020"	0.076"	0.375"	0.015"	—	—	**5DE43**	25
1/8"	0.095"	0.020"	0.094"	0.230"	0.015"	**6LC51**	50	**5DE45**	100
9/64"	0.102"	0.020"	0.100"	0.203"	0.015"	—	—	**5DE47**	100
5/32"	0.116"	0.029"	0.114"	0.282"	0.025"	—	—	**5DE49**	25
11/64"	0.127"	0.029"	0.125"	0.312"	0.025"	—	—	**5DE51**	25
3/16"	0.147"	0.029"	0.145"	0.335"	0.025"	—	—	**5DE53**	25
7/32"	0.188"	0.029"	0.185"	0.437"	0.025"	—	—	**5DE55**	50
1/4"	0.210"	0.029"	0.207"	0.527"	0.025"	—	—	**5DE57**	50
9/16"	0.250"	0.029"	0.243"	0.500"	0.025"	—	—	**5DE59**	50
5/8"	0.303"	0.039"	0.300"	0.660"	0.035"	—	—	**5DE61**	10
11/16"	0.343"	0.039"	0.337"	0.687"	0.035"	—	—	**5DE63**	10
1/2"	0.396"	0.046"	0.392"	0.800"	0.042"	—	—	**5DE65**	10
5/8"	0.485"	0.046"	0.480"	0.940"	0.042"	—	—	**5DE67**	10
3/4"	0.625"	0.056"	0.616"	1.000"	0.050"	**5DY91**	50	**5DE69**	10
7/8"	0.675"	0.056"	0.668"	1.300"	0.050"	—	—	**5DE71**	1
1"	0.835"	0.056"	0.822"	1.500"	0.050"	—	—	**5DE73**	1
1 3/16"	1.079"	0.068"	1.066"	1.626"	0.062"	—	—	**5DE75**	1
1 3/8"	1.230"	0.068"	1.213"	1.875"	0.062"	—	—	**5DE77**	1
3mm	2.30mm	0.64mm	—	5.9mm	0.6mm	**5DV13**	100	**5DA32**	10
4mm	3.20mm	0.64mm	—	6.9mm	0.6mm	**5DV15**	100	**5DA34**	10
5mm	4.00mm	0.74mm	—	8.85mm	0.7mm	**5DV17**	100	**5DA36**	10
6mm	5.00mm	0.74mm	—	10.85mm	0.7mm	**5DV19**	100	**5DA38**	10
7mm	6.00mm	0.74mm	—	11.8mm	0.7mm	**5DV21**	100	**5DA40**	10
8mm	7.00mm	0.94mm	—	13.8mm	0.9mm	**5DV23**	100	**5DA42**	10
9mm	8.00mm	1.05mm	—	15.75mm	1mm	**5DV25**	100	**5DA44**	10
10mm	9.00mm	1.15mm	—	18.2mm	1.1mm	**5DV27**	100	**5DA46**	10
11mm	10.00mm	1.25mm	—	19.7mm	1.2mm	**5DV29**	100	**5DA48**	5
13mm	12.00mm	1.35mm	—	22.7mm	1.3mm	**5DV31**	100	**5DA50**	5
16mm	15.00mm	1.55mm	—	28.7mm	1.5mm	**5DV33**	50	**5DA52**	1
20mm	19.00mm	1.8mm	—	36.5mm	1.75mm	**5DV35**	25	**5DA53**	1
25mm	24.00mm	2.05mm	—	43.5mm	2mm	**5DV37**	10	**5DA55**	1
32mm	30.00mm	2.55mm	—	51.3mm	2.5mm	**5DV39**	10	**5DA57**	1
Bowed E Style Retaining Ring									
1/8"	0.095"	0.022"	0.094"	0.230"	0.010"	**5CU11**	100	—	—
3/16"	0.147"	0.030"	0.145"	0.335"	0.015"	**5CU13**	100	—	—
1/4"	0.210"	0.047"	0.207"	0.527"	0.025"	**5CU15**	100	—	—
3/8"	0.303"	0.060"	0.300"	0.660"	0.035"	**5CU17**	100	—	—
1/2"	0.396"	0.073"	0.392"	0.800"	0.042"	**5CU19**	100	—	—
5/8"	0.485"	0.077"	0.480"	0.940"	0.042"	**5CU21**	100	—	—
3/4"	0.580"	0.085"	0.574"	1.120"	0.050"	**5CU23**	25	—	—

E-Style Retaining Ring Applicators

Easily and quickly install standard radial retaining rings on a shaft.

Ring Size	Blade Width	Blade Length	Tip Length	For Use With E-Style Rings	Item No.
0.062"	0.265"	1.438"	0.375"	5DY81, 5DE39 and 5CB85	**4VCY8**
0.094"	0.500"	1.438"	0.375"	5DY83, 5DE41 and 5CB87	**4VCY9**
0.110"	0.500"	1.438"	0.375"	5DY85, 5DE43 and 5CB89	**4VCZ1**
0.125"	0.500"	1.438"	0.375"	6LC51, 5DE45 and 5CB91	**4VCZ2**
0.140"	0.500"	1.438"	0.375"	5DY87, 5DE47 and 5CB93	**4VCZ3**
0.156"	0.500"	1.438"	0.375"	6LC53, 5DE49 and 5CB95	**4VCZ4**
0.172"	0.500"	1.438"	0.375"	5DY89, 5DE51 and 5CB97	**4VCZ5**
0.188"	0.500"	1.438"	0.375"	6LC55, 5DE53 and 5CB99	**4VCZ6**
0.219"	0.812"	2.218"	0.593"	5EE98, 5DE55 and 5CE11	**4VCZ7**
0.250"	0.812"	2.218"	0.593"	6LC57, 5DE57 and 5CE13	**4VCZ8**
0.312"	0.812"	2.218"	0.593"	5EE99, 5DE59 and 5CE15	**4VCZ9**
0.375"	0.812"	2.218"	0.593"	6LC59, 5DE61 and 5CE17	**4VDA1**
0.437"	0.812"	2.218"	0.593"	6LC61, 5DE63 and 5CE19	**4VDA2**
0.500"	1.125"	2.390"	0.765"	6LC63, 5DE65 and 5CE21	**4VDA3**
0.625"	1.125"	2.390"	0.765"	6LC65, 5DE67 and 5CE23	**4VDA4**
0.750"	1.562"	2.625"	0.969"	5DY91, 5DE69 and 5CE25	**4VDA5**
2.3MM	0.500"	1.438"	0.375"	5DV13 and 5DA32	**4VCX8**
3.2MM	0.500"	1.438"	0.375"	5DV15 and 5DA34	**4VCX9**
4MM	0.500"	1.438"	0.375"	5DV17 and 5DA36	**4VCY1**
5MM	0.812"	2.218"	0.593"	5DV19 and 5DA38	**4VCY2**
6MM	0.812"	2.218"	0.593"	5DV21 and 5DA40	**4VCY3**
7MM	0.812"	2.218"	0.593"	5DV23 and 5DA42	**4VCY4**
8MM	0.812"	2.218"	0.593"	5DV25 and 5DA44	**4VCY5**
9MM	1.125"	2.390"	0.765"	5DV27 and 5DA46	**4VCY6**
10MM	1.125"	2.390"	0.765"	5DV29 and 5DA48	**4VCY7**


No. 4VCX8



Internal and External Retaining Rings

For axial assembly. Holes for pliers make installation and removal easy. Inch-system rings meet ASME standards; metric-system rings meet DIN standards.

Note: Zinc-plated steel retaining rings are also available; on Grainger.com®, search for "retaining rings."

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	Item No.	Pkg. Qty.
Internal						
Stainless Steel						
0.777"	0.825"	0.046"	0.859"	0.042"	**5DB69**	1
¼"	0.268"	0.020"	0.280"	0.015"	**5DB51**	10
5⁄16"	0.330"	0.020"	0.346"	0.015"	**5DB53**	10
⅜"	0.397"	0.029"	0.415"	0.025"	**5DB55**	10
7⁄16"	0.461"	0.029"	0.482"	0.025"	**5DB57**	10
½"	0.530"	0.039"	0.548"	0.035"	**5DB59**	10
9⁄16"	0.596"	0.039"	0.620"	0.035"	**5DB61**	10
⅝"	0.665"	0.039"	0.694"	0.035"	**5DB63**	10
11⁄16"	0.732"	0.039"	0.763"	0.035"	**5DB65**	5
¾"	0.796"	0.039"	0.831"	0.035"	**5DB67**	10
13⁄16"	0.862"	0.046"	0.901"	0.042"	**5DB71**	1
⅞"	0.931"	0.046"	0.971"	0.042"	**5DB73**	5
15⁄16"	1.000"	0.046"	1.041"	0.042"	**5DB77**	1
1"	1.066"	0.046"	1.111"	0.042"	**5DB79**	5
1 1⁄16"	1.130"	0.056"	1.180"	0.050"	**5DB83**	1
1 ⅛"	1.197"	0.056"	1.249"	0.050"	**5DB85**	1
1 3⁄16"	1.262"	0.056"	1.319"	0.050"	**5DB87**	1
1 5⁄16"	1.396"	0.056"	1.456"	0.050"	**5DB91**	1
1 ⅜"	1.461"	0.056"	1.526"	0.050"	**5DB93**	1
1 7⁄16"	1.528"	0.056"	1.596"	0.050"	**5DB95**	1
1 ½"	1.594"	0.056"	1.660"	0.050"	**5DB97**	1
1 9⁄16"	1.658"	0.068"	1.734"	0.062"	**5DB99**	1
1 ⅝"	1.725"	0.068"	1.804"	0.062"	**5DE11**	1
1 11⁄16"	1.792"	0.068"	1.874"	0.062"	**5DE13**	1
1 ¾"	1.858"	0.068"	1.942"	0.062"	**5DE15**	1
1 ⅞"	1.989"	0.068"	2.072"	0.062"	**5DE17**	1
2"	2.122"	0.068"	2.210"	0.062"	**5DE19**	1
2 ⅛"	2.251"	0.086"	2.350"	0.078"	**5DE21**	1
2 ¼"	2.382"	0.086"	2.490"	0.078"	**5DE23**	1
2 ⅜"	2.517"	0.086"	2.630"	0.078"	**5DE25**	1
2 7⁄16"	2.584"	0.086"	2.702"	0.078"	**5DE27**	1
2 ½"	2.648"	0.086"	2.775"	0.078"	**5DE29**	1
2 ⅝"	2.781"	0.103"	2.910"	0.093"	**5DE31**	1
2 ¾"	2.914"	0.103"	3.050"	0.093"	**5DE33**	1
2 ⅞"	3.051"	0.103"	3.191"	0.093"	**5DE35**	1
3"	3.182"	0.103"	3.325"	0.093"	**5DE37**	1

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	Item No.	Pkg. Qty.
Internal Metric						
Carbon Steel						
9mm	9.40mm	0.9mm	9.8mm	0.80mm	**5DU62**	100
10mm	10.40mm	1.1mm	10.8mm	1mm	**5DU64**	100
12mm	12.50mm	1.1mm	13.00mm	1mm	**5DU68**	100
14mm	14.60mm	1.1mm	15.1mm	1mm	**5DU69**	100
16mm	16.80mm	1.1mm	17.3mm	1mm	**5DU71**	100
18mm	19.00mm	1.1mm	19.5mm	1mm	**5DU73**	50
20mm	21.00mm	1.1mm	21.5mm	1mm	**5DU76**	50
22mm	23.00mm	1.1mm	23.5mm	1mm	**5DU78**	50
24mm	25.20mm	1.3mm	25.9mm	1.20mm	**5DU80**	50
28mm	29.40mm	1.3mm	30.1mm	1.20mm	**5DU82**	50
32mm	33.70mm	1.3mm	34.4mm	1.20mm	**5DU85**	25
34mm	35.70mm	1.6mm	36.5mm	1.50mm	**5DU87**	1
40mm	42.50mm	1.85mm	43.5mm	1.75mm	**5DU93**	1
50mm	53.00mm	2.15mm	54.2mm	2mm	**5DU95**	1
60mm	63.00mm	2.15mm	64.2mm	2mm	**5DU97**	1
70mm	73.00mm	2.65mm	74.5mm	2.50mm	**5DU99**	1
80mm	83.50mm	2.65mm	85.5mm	2.50mm	**5DV11**	1
Stainless Steel						
9mm	9.40mm	0.9mm	9.8mm	0.80mm	**5CY80**	5
10mm	10.40mm	1.1mm	10.8mm	1mm	**5CY82**	5
12mm	12.50mm	1.1mm	13.00mm	1mm	**5CY86**	5
14mm	14.60mm	1.1mm	15.1mm	1mm	**5CY88**	5
16mm	16.80mm	1.1mm	17.3mm	1mm	**5CY90**	5
18mm	19.00mm	1.1mm	19.5mm	1mm	**5CY92**	5
20mm	21.00mm	1.1mm	21.5mm	1mm	**5CY94**	1
22mm	23.00mm	1.1mm	23.5mm	1mm	**5CY96**	1
24mm	25.20mm	1.3mm	25.9mm	1.20mm	**5CY98**	1
28mm	29.40mm	1.3mm	30.1mm	1.20mm	**5DA10**	1
32mm	33.70mm	1.3mm	34.4mm	1.20mm	**5DA14**	1
34mm	35.70mm	1.6mm	36.5mm	1.50mm	**5DA16**	1
40mm	42.50mm	1.85mm	43.5mm	1.75mm	**5DA22**	1
50mm	53.00mm	2.15mm	54.2mm	2mm	**5DA24**	1
60mm	63.00mm	2.15mm	64.2mm	2mm	**5DA26**	1
70mm	73.00mm	2.65mm	74.5mm	2.50mm	**5DA28**	1
80mm	83.50mm	2.65mm	85.5mm	2.5mm	**5DA30**	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Thickness	Item No.	Pkg. Qty.
External						
Stainless Steel						
¼"	0.230"	0.029"	0.225"	0.025"	**5DA59**	10
9⁄32"	0.261"	0.029"	0.256"	0.025"	**5DA61**	10
5⁄16"	0.290"	0.029"	0.281"	0.025"	**5DA63**	10
⅜"	0.352"	0.029"	0.338"	0.025"	**5DA67**	10
7⁄16"	0.412"	0.029"	0.395"	0.025"	**5DA71**	10
½"	0.468"	0.039"	0.461"	0.035"	**5DA73**	10
9⁄16"	0.530"	0.039"	0.521"	0.035"	**5DA75**	10
19⁄32"	0.559"	0.039"	0.550"	0.035"	**5DA77**	10
⅝"	0.588"	0.039"	0.579"	0.035"	**5DA79**	10
11⁄16"	0.646"	0.046"	0.635"	0.042"	**5DA81**	10
¾"	0.704"	0.046"	0.693"	0.042"	**5DA83**	10
13⁄16"	0.762"	0.046"	0.751"	0.042"	**5DA85**	10
⅞"	0.821"	0.046"	0.810"	0.042"	**5DA87**	5
15⁄16"	0.882"	0.046"	0.867"	0.042"	**5DA89**	5
1"	0.940"	0.046"	0.925"	0.042"	**5DA93**	5
1 1⁄16"	0.998"	0.056"	0.982"	0.050"	**5DA95**	5
1 ⅛"	1.059"	0.056"	1.041"	0.050"	**5DA97**	1
1 3⁄16"	1.118"	0.056"	1.098"	0.050"	**5DA99**	1
1 ¼"	1.176"	0.056"	1.156"	0.050"	**5DB11**	1
1 5⁄16"	1.232"	0.056"	1.214"	0.050"	**5DB13**	1
1 ⅜"	1.291"	0.056"	1.272"	0.050"	**5DB15**	1
1 7⁄16"	1.350"	0.056"	1.333"	0.050"	**5DB17**	1
1 ½"	1.406"	0.056"	1.387"	0.050"	**5DB19**	1
1 9⁄16"	1.468"	0.068"	1.446"	0.062"	**5DB21**	1
1 ⅝"	1.529"	0.068"	1.503"	0.062"	**5DB23**	1
1 ¾"	1.650"	0.068"	1.618"	0.062"	**5DB27**	1
1 ⅞"	1.769"	0.068"	1.735"	0.062"	**5DB29**	1
2"	1.886"	0.068"	1.850"	0.062"	**5DB31**	1
2 ⅛"	2.003"	0.086"	1.964"	0.078"	**5DB33**	1
2 ¼"	2.120"	0.086"	2.081"	0.078"	**5DB35**	1
2 ⅜"	2.239"	0.086"	2.197"	0.078"	**5DB37**	1
2 7⁄16"	2.299"	0.086"	2.255"	0.078"	**5DB39**	1
2 ½"	2.360"	0.086"	2.313"	0.078"	**5DB41**	1
2 ⅝"	2.481"	0.086"	2.428"	0.078"	**5DB43**	1
2 ¾"	2.602"	0.103"	2.543"	0.093"	**5DB45**	1
2 ⅞"	2.721"	0.103"	2.659"	0.093"	**5DB47**	1
3"	2.838"	0.103"	2.775"	0.093"	**5DB49**	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Thickness	Item No.	Pkg. Qty.
External Metric						
Carbon Steel						
4mm	3.80mm	0.5mm	3.7mm	0.4mm	**5DE81**	100
5mm	4.80mm	0.7mm	4.7mm	0.6mm	**5DE83**	100
6mm	5.70mm	0.8mm	5.6mm	0.7mm	**5DE85**	100
8mm	7.60mm	0.9mm	7.4mm	0.8mm	**5DE89**	100
9mm	8.60mm	1.1mm	8.4mm	1mm	**5DE91**	100
10mm	9.60mm	1.1mm	9.3mm	1mm	**5DE93**	100
12mm	11.50mm	1.1mm	11mm	1mm	**5DE95**	100
13mm	12.40mm	1.1mm	11.9mm	1mm	**5DE97**	100
14mm	13.40mm	1.1mm	12.9mm	1mm	**5DE99**	100
15mm	14.30mm	1.1mm	13.8mm	1mm	**5DU11**	100
16mm	15.20mm	1.1mm	14.7mm	1mm	**5DU13**	100
17mm	16.20mm	1.1mm	15.7mm	1mm	**5DU15**	100
18mm	17.00mm	1.3mm	16.5mm	1.2mm	**5DU17**	100
19mm	18.00mm	1.3mm	17.5mm	1.2mm	**5DU19**	50
20mm	19.00mm	1.3mm	18.5mm	1.2mm	**5DU21**	50
24mm	22.90mm	1.3mm	22.2mm	1.2mm	**5DU23**	50
25mm	23.90mm	1.3mm	23.2mm	1.2mm	**5DU25**	25
28mm	26.60mm	1.6mm	25.9mm	1.5mm	**5DU27**	25
30mm	28.60mm	1.6mm	27.9mm	1.5mm	**5DU29**	25
32mm	30.30mm	1.6mm	29.6mm	1.5mm	**5DU31**	10
35mm	33.00mm	1.6mm	32.2mm	1.5mm	**5DU35**	10
40mm	37.50mm	1.85mm	36.5mm	1.75mm	**5DU41**	10
45mm	42.50mm	1.85mm	41.5mm	1.75mm	**5DU43**	5
50mm	47.00mm	2.15mm	45.8mm	2mm	**5DU45**	5
55mm	52.00mm	2.15mm	50.8mm	2mm	**5DU47**	5
60mm	57.00mm	2.15mm	55.8mm	2mm	**5DU50**	5
65mm	62.00mm	2.65mm	60.8mm	2.5mm	**5DU52**	1
70mm	67.00mm	2.65mm	65.5mm	2.5mm	**5DU54**	1
75mm	72.00mm	2.65mm	70.5mm	2.5mm	**5DU56**	1
80mm	76.50mm	2.65mm	74.5mm	2.5mm	**5DU58**	1
Stainless Steel						
4mm	3.80mm	0.5mm	3.7mm	0.4mm	**5CY42**	10
5mm	4.80mm	0.7mm	4.7mm	0.6mm	**5CY44**	10
6mm	5.70mm	0.8mm	5.6mm	0.7mm	**5CY46**	10
8mm	7.60mm	0.9mm	7.4mm	0.8mm	**5CY50**	10
9mm	8.60mm	1.1mm	8.4mm	1mm	**5CY52**	10
10mm	9.60mm	1.1mm	9.3mm	1mm	**5CY54**	5
12mm	11.50mm	1.1mm	11mm	1mm	**5CY56**	5
13mm	12.40mm	1.1mm	11.9mm	1mm	**5CY58**	5
14mm	13.40mm	1.1mm	12.9mm	1mm	**5CY60**	5
15mm	14.30mm	1.1mm	13.8mm	1mm	**5CY62**	5
16mm	15.20mm	1.1mm	14.7mm	1mm	**5CY64**	5
17mm	16.20mm	1.1mm	15.7mm	1mm	**5CY66**	1
18mm	17.00mm	1.3mm	16.5mm	1.2mm	**5CY68**	1
19mm	18.00mm	1.3mm	17.5mm	1.2mm	**5CY70**	1
20mm	19.00mm	1.3mm	18.5mm	1.2mm	**5CY72**	1
24mm	22.90mm	1.3mm	22.2mm	1.2mm	**5CY74**	1
25mm	23.90mm	1.3mm	23.2mm	1.2mm	**5CY76**	1
Heavy-Duty External						
Carbon Steel						
½"	0.468"	0.056"	0.460"	0.050"	**5CE35**	10
⅝"	0.588"	0.056"	0.575"	0.050"	**5CE37**	10
¾"	0.704"	0.086"	0.689"	0.078"	**5CE39**	10
⅞"	0.821"	0.086"	0.804"	0.078"	**5CE41**	10
1"	0.938"	0.086"	0.906"	0.078"	**5CE43**	10
1 ⅛"	1.059"	0.103"	1.036"	0.093"	**5CE45**	10
1 ¼"	1.174"	0.103"	1.150"	0.093"	**5CE47**	10
1 ⅜"	1.291"	0.103"	1.268"	0.093"	**5CE49**	10
1 ½"	1.406"	0.120"	1.380"	0.109"	**5CE51**	5
1 9⁄16"	1.468"	0.120"	1.437"	0.109"	**5CE53**	5
1 ¾"	1.650"	0.120"	1.608"	0.109"	**5CE55**	5
2"	1.880"	0.139"	1.840"	0.125"	**5CE57**	5



Crescent External Retaining Rings

Ideal for low-clearance applications where radial installation is preferred. Zinc yellow-plated steel. Meet ASME standard.

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	Item No.	Pkg. Qty.
5⁄32"	0.135"	0.020"	0.131"	0.205"	0.015"	**5CU25**	100
5⁄16"	0.165"	0.020"	0.161"	0.244"	0.015"	**5CU27**	100
7⁄32"	0.193"	0.029"	0.187"	0.275"	0.025"	**5CU29**	100
¼"	0.220"	0.029"	0.211"	0.311"	0.025"	**5CU31**	100
9⁄32"	0.247"	0.029"	0.242"	0.346"	0.025"	**5CU33**	100
5⁄16"	0.276"	0.029"	0.270"	0.376"	0.025"	**5CU35**	100
⅜"	0.335"	0.029"	0.328"	0.448"	0.025"	**5CU37**	100
7⁄16"	0.393"	0.029"	0.386"	0.517"	0.025"	**5CU39**	100
½"	0.450"	0.039"	0.441"	0.581"	0.035"	**5CU41**	100
9⁄16"	0.507"	0.039"	0.497"	0.653"	0.035"	**5CU43**	50
⅝"	0.563"	0.039"	0.553"	0.715"	0.035"	**5CU45**	100
¾"	0.676"	0.046"	0.665"	0.845"	0.042"	**5CU47**	50
1"	0.900"	0.046"	0.887"	1.130"	0.042"	**5CU49**	50
1 ⅛"	1.013"	0.056"	0.997"	1.267"	0.050"	**5CU51**	25
1 ¼"	1.126"	0.056"	1.110"	1.415"	0.050"	**5CU53**	25

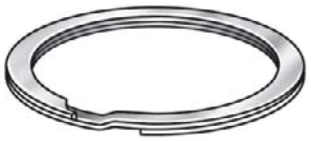
Spiral Retaining Rings

Provide 360° coverage of the retained surface. Unique circumferential metal structure provides exceptional strength, stability, and even distribution of thrust loads. Wound from pretempered flat wire to exact tolerances. Meet ANSI standards.

Note: Additional sizes are available on Grainger.com®; search for "retaining rings."



Internal
No. 5EB17



External

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	CARBON STEEL Item No.	CARBON STEEL Pkg. Qty.	302 STAINLESS STEEL Item No.	302 STAINLESS STEEL Pkg. Qty.
Internal								
1/4"	0.268"	0.020"	0.270"	0.015"	—	—	**5EE26**	10
5/16"	0.330"	0.020"	0.333"	0.015"	—	—	**5EE28**	10
3/8"	0.397"	0.029"	0.400"	0.025"	**5EA75**	25	**5EE30**	10
7/16"	0.461"	0.029"	0.464"	0.025"	**5EA77**	25	**5EE32**	10
1/2"	0.530"	0.039"	0.538"	0.035"	**5EA79**	25	**5EE34**	10
5/8"	0.665"	0.039"	0.675"	0.035"	**5EA81**	25	**5EE36**	10
3/4"	0.796"	0.039"	0.807"	0.035"	**5EA83**	25	**5EE38**	10
7/8"	0.931"	0.046"	0.943"	0.042"	**5EA85**	10	**5EE40**	5
1"	1.066"	0.046"	1.080"	0.042"	**5EA87**	10	**5EE42**	5
1 1/16"	1.130"	0.056"	1.138"	0.050"	**5EA89**	5	**5EE44**	1
1 1/8"	1.197"	0.056"	1.205"	0.050"	**5EA91**	10	**5EE46**	5
1 3/16"	1.262"	0.056"	1.271"	0.050"	**5EA93**	5	**5EE49**	1
1 1/4"	1.330"	0.056"	1.339"	0.050"	**5EA95**	10	**5EE51**	5
1 5/16"	1.396"	0.056"	1.406"	0.050"	**5EA97**	5	**5EE53**	1
1 3/8"	1.461"	0.056"	1.471"	0.050"	**5EA99**	10	**5EE55**	5
1 7/16"	1.528"	0.056"	1.539"	0.050"	**5EB11**	5	**5EE57**	1
1 1/2"	1.594"	0.056"	1.065"	0.050"	**5EB13**	10	**5EE59**	5
1 5/8"	1.725"	0.068"	1.742"	0.062"	**5EB15**	10	**5EE61**	1
1 3/4"	1.858"	0.068"	1.876"	0.062"	**5EB17**	10	**5EE63**	1
1 7/8"	1.989"	0.068"	2.008"	0.062"	**5EB19**	10	**5EE65**	1
2"	2.122"	0.068"	2.142"	0.062"	**5EB21**	5	**5EE67**	1
2 1/8"	2.251"	0.086"	2.267"	0.078"	**5EB23**	5	**5EE69**	1
2 1/4"	2.382"	0.086"	2.399"	0.078"	**5EB25**	5	**5EE71**	1
2 3/8"	2.517"	0.086"	2.535"	0.078"	**5EB27**	5	**5EE73**	1
2 1/2"	2.648"	0.086"	2.667"	0.078"	**5EB29**	5	**5EE75**	1
2 5/8"	2.781"	0.103"	2.801"	0.093"	**5EB31**	5	**5EE77**	1
2 3/4"	2.914"	0.103"	2.934"	0.093"	**5EB33**	5	**5EE79**	1
2 7/8"	3.051"	0.103"	3.072"	0.093"	**5EB35**	5	**5EE82**	1
3"	3.182"	0.103"	3.204"	0.093"	**5EB37**	5	**5EE84**	1
3 1/4"	3.446"	0.120"	3.470"	0.111"	**5EB39**	1	**5EE86**	1
3 1/2"	3.710"	0.120"	3.736"	0.111"	**5EB41**	1	**5EE88**	1
3 3/4"	3.974"	0.120"	4.002"	0.111"	**5EB43**	1	**5EE90**	1
4"	4.240"	0.120"	4.270"	0.111"	**5EB45**	1	**5EE92**	1
4 1/2"	4.735"	0.120"	4.768"	0.111"	**5EB47**	1	**5EE94**	1
5"	5.260"	0.120"	5.297"	0.111"	**5EB49**	1	**5EE96**	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Thickness	CARBON STEEL Item No.	CARBON STEEL Pkg. Qty.	302 STAINLESS STEEL Item No.	302 STAINLESS STEEL Pkg. Qty.
External							
1/4"	0.230"	0.029"	0.025"	**5DY99**	25	**5EB52**	10
5/16"	0.290"	0.029"	0.025"	**5EA11**	25	**5EB54**	10
3/8"	0.352"	0.029"	0.025"	**5EA13**	25	**5EB56**	10
7/16"	0.412"	0.029"	0.025"	**5EA15**	25	**5EB58**	10
1/2"	0.468"	0.039"	0.035"	**5EA17**	25	**5EB60**	10
5/8"	0.039"	0.588"	0.035"	**5EA19**	25	**5EB62**	10
3/4"	0.704"	0.046"	0.042"	**5EA21**	10	**5EB64**	5
7/8"	0.821"	0.046"	0.042"	**5EA23**	10	**5EB66**	5
1"	0.940"	0.046"	0.042"	**5EA25**	10	**5EB68**	5
1 1/8"	1.059"	0.056"	0.050"	**5EA27**	10	**5EB70**	5
1 1/4"	1.176"	0.056"	0.050"	**5EA29**	10	**5EB72**	5
1 3/8"	1.291"	0.056"	0.050"	**5EA31**	10	**5EB74**	5
1 1/2"	1.406"	0.056"	0.050"	**5EA33**	10	**5EB76**	5
1 5/8"	1.529"	0.068"	0.062"	**5EA35**	10	**5EB78**	1
1 3/4"	1.650"	0.068"	0.062"	**5EA37**	10	**5EB80**	1
1 7/8"	1.769"	0.068"	0.062"	**5EA39**	10	**5EB83**	1
2"	1.886"	0.068"	0.062"	**5EA41**	10	**5EB85**	1
2 1/8"	2.003"	0.086"	0.078"	**5EA43**	5	**5EB87**	1
2 1/4"	2.120"	0.086"	0.078"	**5EA45**	5	**5EB89**	1
2 3/8"	2.239"	0.086"	0.078"	**5EA47**	5	**5EB91**	1
2 1/2"	2.360"	0.086"	0.078"	**5EA49**	5	**5EB93**	1
2 5/8"	2.481"	0.086"	0.078"	**5EA51**	5	**5EB95**	1
2 3/4"	2.602"	0.103"	0.093"	**5EA53**	5	**5EB97**	1
3"	2.838"	0.103"	0.093"	**5EA57**	5	**5EE11**	1
3 1/4"	3.076"	0.103"	0.093"	**5EA59**	1	**5EE13**	1
3 1/2"	3.316"	0.120"	0.111"	**5EA61**	1	**5EE15**	1
4"	3.792"	0.120"	0.111"	**5EA65**	1	—	—
4 1/2"	4.310"	0.120"	0.111"	**5EA67**	1	**5EE22**	1
5"	4.790"	0.120"	0.111"	**5EA69**	1	**5EE24**	1
2 7/8"	2.721"	0.103"	0.093"	**5EA55**	5	**5EB99**	1
3 3/4"	3.552"	0.120"	0.111"	**5EA63**	1	**5EE18**	1

Self-Locking Retaining Rings

- Stainless Steel

Designed to push onto ungrooved shafts and bores. No groove required; frictional force is used to retain assemblies. Once installed, rings self-lock and are difficult to remove.

Note: Additional sizes are available on Grainger.com®; search for "retaining rings."



Internal



External

For Bore Dia.	Free O.D.	Thickness	Prongs	Item No.	Pkg. Qty.
Internal					
5/16"	0.313"	0.010"	6	**5CY32**	5
1"	1.002"	0.015"	10	**5CY40**	5
Internal Self-Locking Push-On					
1/2"	0.502"	0.010"	6	**5CY36**	5
3/8"	0.376"	0.010"	6	**5CY34**	5

For Shaft Dia.	Free I.D.	Thickness	Prongs	Item No.	Pkg. Qty.
External					
1/2"	0.498"	0.015"	10	**5CU93**	5
1/4"	0.248"	0.010"	6	**5CU87**	5
1/8"	0.123"	0.010"	4	**5CU83**	5
3/16"	0.186"	0.010"	6	**5CU85**	5
3/4"	0.748"	0.015"	14	**5CU95**	5
3/8"	0.373"	0.010"	8	**5CU91**	5
5/16"	0.310"	0.010"	8	**5CU89**	5
1"	0.998"	0.015"	18	**5CU97**	5

Split External Retaining Rings

Install with any standard pliers to provide 360° closure. Remove by pressing on lugs to open. Zinc-plated steel.



For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Thickness	Item No.	Pkg. Qty.
5/32"	0.086"	0.031"	0.025"	**5CE79**	100
3/16" and 7/32"	0.093"	0.062"	0.055"	**5CE81**	100
1/4" and 9/32"	0.125"	0.062"	0.055"	**5CE83**	100
5/16" and 11/32"	0.156"	0.075"	0.065"	**5CE85**	100
3/8" and 13/32"	0.187"	0.075"	0.065"	**5CE87**	100
7/16" and 15/32"	0.218"	0.083"	0.075"	**5CE89**	50
1/2" and 17/32"	0.250"	0.083"	0.075"	**5CE91**	50
9/16" and 19/32"	0.279"	0.083"	0.075"	**5CE93**	25
5/8" and 21/32"	0.311"	0.097"	0.089"	**5CE95**	25
11/16" and 23/32"	0.341"	0.097"	0.089"	**5CE97**	25
3/4" and 25/32"	0.375"	0.097"	0.089"	**5CE99**	25

Poodle-Style External Retaining Rings

For large bearing surfaces. Unique, wide design offers extra retention surface against the retained part. Black phosphate-coated steel. Meet DIN specifications.



For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	Item No.	Pkg. Qty.
5/32"	0.120"	0.039"	0.110"	0.320"	0.035"	**5CE59**	**100**
3/16"	0.148"	0.039"	0.140"	0.400"	0.035"	**5CE61**	**100**
1/4"	0.210"	0.039"	0.188"	0.482"	0.035"	**5CE63**	**100**
5/16"	0.272"	0.046"	0.250"	0.588"	0.042"	**5CE65**	**50**
3/8"	0.331"	0.046"	0.312"	0.680"	0.042"	**5CE67**	**50**
7/16"	0.390"	0.056"	0.375"	0.752"	0.050"	**5CE69**	**50**
1/2"	0.440"	0.056"	0.406"	0.826"	0.050"	**5CE71**	**50**
5/8"	0.531"	0.056"	0.500"	0.966"	0.050"	**5CE73**	**50**
3/4"	0.632"	0.068"	0.594"	1.095"	0.062"	**5CE75**	**50**
1"	0.860"	0.086"	0.812"	1.415"	0.078"	**5CE77**	**25**

Spring Information





SPRING TYPES

Compression

Shorten under load to absorb impact, apply pressure to surfaces, or protect against the effects of shock. See pages 2159 and 2160.

Disc

Convex discs generate high force within a very short length. Discs can be used singly or stacked in numerous combinations to achieve desired load and travel with minimal movement. See grainger.com/fasteners.





Extension (Tension)

Expand and elongate under load and have a hook, eye, or some other means of attachment at either end to allow attached pieces to give way and absorb impact, shock, or other forces. See page 2158.

Torsion

Ends rotate in angular deflection to offer resistance to externally applied torque. Commonly used over an arbor or mandrel for support, and in other applications where pressure needs to be maintained over a short distance. See page 2159.



No. 1NDW4

Spring Assortments

Note: See Grainger.com® for specific contents.

No. of Sizes	No. of Pieces	Material	Item No.
Spring Assortment			
Compression			
8	16	Carbon Steel	**3HPU6**
50	100	Carbon Steel	**3HPU4**
Cut-to Length Compression, Double Loop Extension, and Extension			
40	90	Carbon Steel	**3HPU2**
Double Loop Extension			
25	25	Carbon Steel	**3HPU3**
Extension			
50	100	Carbon Steel	**3HPU5**
Extension, Cot Extension, Compression, and Adjustable Screen Door			
111	600	Carbon Steel	**3HPU8**
Extension and Compression			
20	20	Carbon Steel	**3HPU7**
40	123	High Carbon Steel	**1NDW4**
79	218	High Carbon Steel	**1NDW2**
Left Hand Torsion Spring			
12	36	Stainless Steel	**3HPV5**
44	44	Music Wire	**3HPV3**
Precision Compression			
75	150	High Carbon Steel	**1NDW6**
75	150	302 Stainless Steel	**1NDW8**
Right Hand Torsion Spring			
12	36	Stainless Steel	**3HPV6**
44	44	Music Wire	**3HPV4**



Utility Extension Springs

For use with OEM or maintenance and repair applications. Crossover center loop ends. Type 302 stainless steel meet ASTM A313 and AISI Type 302/304 standards. High carbon steel meet ASTM A227 standard.

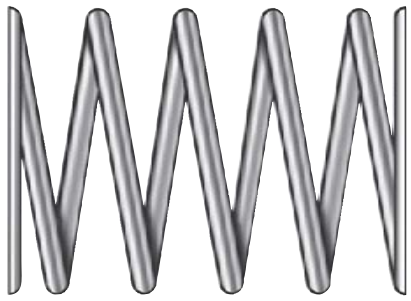
Note: Additional sizes and ultra-precision extension springs are available on Grainger.com®; search for "extension springs" or "ultra-precision extension springs."

Overall Length	Outside Dia.	Wire Dia.	Load (lb.)	Item No.	Pkg. Qty.
302 Stainless Steel, Plain					
1"	3/16"	0.023"	2.57	**1NAJ4**	6
	1/4"	0.029"	3.53	**1NAJ5**	6
	5/16"	0.035"	2.77	**1NAJ6**	6
1 1/4"	3/16"	0.023"	2.57	**1NAJ7**	6
	1/4"	0.029"	3.53	**1NAJ8**	6
	5/16"	0.029"	2.77	**1NAJ9**	6
	5/16"	0.035"	4.91	**1NAK1**	6
	3/8"	0.035"	3.99	**1NAK2**	6
1 1/2"	1/4"	0.029"	3.53	**1NAK3**	6
	5/16"	0.035"	2.77	**1NAK4**	6
	3/8"	0.048"	10.03	**1NAK5**	3
1 3/4"	1/4"	0.029"	3.53	**1NAK6**	6
	5/16"	0.029"	2.77	**1NAK7**	6
	5/16"	0.035"	4.91	**1NAK8**	6
	3/8"	0.035"	3.99	**1NAK9**	6
	3/8"	0.048"	10.03	**1NAL1**	3
2"	3/8"	0.048"	10.03	**1NAL2**	3
2 1/4"	3/8"	0.048"	10.03	**1NAL3**	3
2 1/2"	3/16"	0.023"	2.57	**1NAL4**	6
	5/16"	0.035"	4.91	**1NAL5**	6
	3/8"	0.048"	10.03	**1NAL6**	3
	7/16"	0.048"	8.5	**1NAL7**	3
2 3/4"	3/8"	0.048"	10.03	**1NAL8**	3
	7/16"	0.048"	8.5	**1NAL9**	6
3"	3/8"	0.048"	10.03	**1NAN1**	3
	7/16"	0.048"	8.5	**1NAN2**	6
3 1/4"	7/16"	0.048"	8.5	**1NAN3**	6
3 1/2"	7/16"	0.048"	8.5	**1NAN4**	6
	7/16"	0.048"	8.50	**1NAN5**	6
4"	1/2"	0.063"	14.44	**1NAN6**	3
	31/64"	0.072"	19.37	**1NAN7**	3

Overall Length	Outside Dia.	Wire Dia.	Load (lb.)	Item No.	Pkg. Qty.
High Carbon Steel, Zinc-Plated					
1"	3/16"	0.023"	2.3	**1MZX5**	12
	1/4"	0.029"	3.28	**1MZX6**	12
	5/16"	0.029"	2.62	**1MZX7**	12
	5/16"	0.035"	4.65	**1MZX8**	12
1 1/4"	3/16"	0.023"	2.33	**1MZX9**	12
	1/4"	0.029"	3.31	**1MZY1**	12
	5/16"	0.029"	2.62	**1MZY2**	12
	5/16"	0.035"	4.61	**1MZY3**	12
	3/8"	0.035"	3.79	**1MZY4**	12
1 1/2"	3/16"	0.023"	2.43	**1MZY5**	12
	1/4"	0.029"	3.37	**1MZY6**	12
	5/16"	0.029"	2.62	**1MZY7**	12
	5/16"	0.035"	4.67	**1MZY8**	12
	3/8"	0.035"	3.76	**1MZY9**	12
	3/8"	0.048"	9.59	**1MZZ1**	3
1 3/4"	1/4"	0.029"	3.35	**1MZZ3**	12
	5/16"	0.029"	2.61	**1MZZ4**	12
	5/16"	0.035"	4.64	**1MZZ5**	12
	3/8"	0.035"	3.8	**1MZZ6**	12
	3/8"	0.048"	9.54	**1MZZ7**	3
2"	3/16"	0.023"	2.34	**1MZZ8**	12
	1/4"	0.029"	3.35	**1MZZ9**	12
	5/16"	0.029"	2.61	**1NAA1**	12
	5/16"	0.035"	4.65	**1NAA2**	6
	3/8"	0.035"	3.81	**1NAA3**	12
	3/8"	0.048"	9.53	**1NAA4**	3
2 1/4"	1/4"	0.029"	3.37	**1NAA6**	12
	5/16"	0.029"	2.62	**1NAA7**	12
	5/16"	0.035"	4.57	**1NAA8**	12
	3/8"	0.035"	3.8	**1NAA9**	3
	3/8"	0.048"	9.53	**1NAB1**	3

Overall Length	Outside Dia.	Wire Dia.	Load (lb.)	Item No.	Pkg. Qty.
2 1/2"	3/16"	0.023"	2.39	**1NAB2**	12
	1/4"	0.029"	3.36	**1NAB3**	12
	5/16"	0.029"	2.61	**1NAB4**	12
	5/16"	0.035"	4.67	**1NAB5**	12
	3/8"	0.035"	3.81	**1NAB6**	3
	3/8"	0.048"	9.53	**1NAB7**	6
	7/16"	0.048"	8	**1NAB8**	6
2 3/4"	3/8"	0.035"	3.81	**1NAB9**	3
	3/8"	0.048"	9.53	**1NAC1**	6
	7/16"	0.048"	8.03	**1NAC2**	12
3"	3/8"	0.035"	3.8	**1NAC3**	3
	3/8"	0.048"	9.53	**1NAC4**	6
	7/16"	0.048"	8.01	**1NAC5**	12
3 1/4"	7/16"	0.048"	8.02	**1NAC6**	12
3 1/2"	7/16"	0.048"	8.02	**1NAC7**	12
3 3/4"	7/16"	0.048"	8.02	**1NAC8**	12
	1/8"	0.016"	1.04	**1NAC9**	12
	5/32"	0.020"	1.52	**1NAD2**	12
	3/16"	0.023"	2.2	**1NAD3**	12
	13/64"	0.026"	2.52	**1NAD4**	12
	15/64"	0.029"	3.72	**1NAD5**	12
4"	1/4"	0.032"	4.56	**1NAD6**	6
	9/32"	0.035"	7.08	**1NAD7**	6
	21/64"	0.041"	7.37	**1NAD8**	6
	3/8"	0.048"	13.82	**1NAD9**	6
	7/16"	0.048"	7.79	**1NAE1**	6
	7/16"	0.054"	11.92	**1NAE2**	6
	1/2"	0.063"	16.61	**1NAE3**	3
	37/64"	0.072"	22.28	**1NAE4**	3

Overall Length	Outside Dia.	Wire Dia.	Load (lb.)	Item No.	Pkg. Qty.
6"	1/8"	0.016"	1.07	**1NAE5**	6
	5/32"	0.020"	1.5	**1NAE7**	6
	3/16"	0.023"	1.8	**1NAE8**	6
	13/64"	0.026"	2.6	**1NAE9**	6
	15/64"	0.029"	3.9	**1NAF1**	6
	1/4"	0.032"	4.8	**1NAF2**	3
	9/32"	0.035"	5.7	**1NAF3**	6
	21/64"	0.041"	6.7	**1NAF4**	6
	3/8"	0.048"	9.6	**1NAF5**	6
	7/16"	0.054"	10.8	**1NAF6**	6
	1/2"	0.063"	16.8	**1NAF7**	3
	37/64"	0.072"	19.8	**1NAF8**	3
8"	1/8"	0.016"	1.31	**1NAF9**	6
	5/32"	0.020"	2.04	**1NAH2**	6
	3/16"	0.023"	1.8	**1NAH3**	6
	1/4"	0.032"	4.5	**1NAH6**	6
	9/32"	0.035"	7.2	**1NAH7**	6
	21/64"	0.041"	7	**1NAH8**	6
	3/8"	0.048"	10.2	**1NAH9**	6
	7/16"	0.054"	10.9	**1NAJ1**	6
	1/2"	0.063"	18.5	**1NAJ2**	6
	37/64"	0.072"	24.60	**1NAJ3**	6



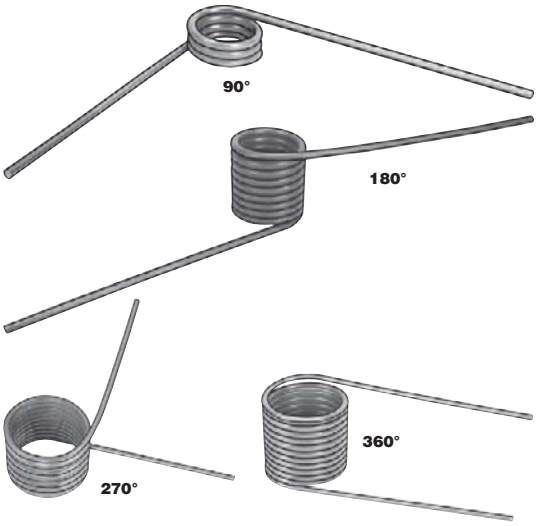
Precision Compression Springs

Manufactured to tighter load and dimensional tolerances.

Note: Additional sizes are available; on Grainger.com®, search for "precision compression springs."

Type 302 Stainless Steel—Springs offer better corrosion resistance and perform well at up to 500°F. Meet ASTM A313 standards.

Overall Length	Outside Dia.	Wire Dia.	Compressed Length	Load (lb.)	Item No.	Pkg. Qty.
302 Stainless Steel						
¼"	0.120"	0.016"	0.114"	1.6	1NCG3	5
⅜"	0.240"	0.022"	0.111"	2	1NCG4	5
½"	0.120"	0.016"	0.205"	1.56	1NCG5	5
	0.120"	0.022"	0.309"	3.62	1NCG6	5
	0.300"	0.022"	0.106"	1.57	1NCG8	5
	0.360"	0.032"	0.145"	3.75	1NCG9	5
	0.480"	0.045"	0.192"	7.58	1NCH1	5
9⁄16"	0.240"	0.022"	0.144"	1.93	1NCH3	5
⅝"	0.240"	0.026"	0.203"	3.12	1NCH4	5
11⁄16"	0.300"	0.032"	0.241"	4.93	1NCH7	5
¾"	0.180"	0.016"	0.177"	1.06	1NCJ1	5
	0.240"	0.038"	0.390"	8.81	1NCJ2	5
	0.360"	0.026"	0.138"	2.1	1NCJ3	5
	0.600"	0.072"	0.397"	22.09	1NCJ4	5
	0.720"	0.055"	0.221"	8.81	1NCJ5	5
	0.720"	0.063"	0.284"	12.92	1NCJ6	5
13⁄16"	0.300"	0.045"	0.417"	11.9	1NCK1	5
	0.360"	0.038"	0.201"	6.17	1NCK2	5
⅞"	0.240"	0.026"	0.287"	3.13	1NCK6	5
	0.300"	0.022"	0.166"	1.57	1NCK7	5
	0.360"	0.032"	0.209"	3.83	1NCK8	5
	0.420"	0.047"	0.330"	9.56	1NCK9	5
	0.480"	0.038"	0.210"	4.64	1NCL1	5
	0.480"	0.045"	0.271"	7.44	1NCL2	5
	0.480"	0.055"	0.373"	6.65	1NCL3	5
	0.480"	0.063"	0.457"	18.95	1NCL4	5
	0.600"	0.045"	0.226"	6	1NCL5	5
1"	0.180"	0.032"	0.601"	7.01	1NCL7	5
	0.240"	0.032"	0.425"	5.6	1NCL8	5
	0.300"	0.026"	0.229"	2.54	1NCL9	5
	0.300"	0.032"	0.337"	4.5	1NCN1	5
1⅛"	0.360"	0.026"	0.190"	2.13	1NCN2	5
1¼"	0.600"	0.072"	0.596"	25.49	1NCN3	5
	0.720"	0.055"	0.304"	8.4	1NCN4	5
	0.720"	0.063"	0.441"	12.98	1NCN5	5
	0.720"	0.072"	0.470"	18.97	1NCN6	5
1½"	0.240"	0.038"	0.772"	8.92	1NCN7	5
	0.300"	0.038"	0.571"	7.31	1NCN9	5
	0.360"	0.032"	0.338"	3.8	1NCP3	5
	0.360"	0.038"	0.477"	6.15	1NCP4	5
	0.360"	0.042"	0.527"	8.09	1NCP5	5
	0.360"	0.045"	0.586"	9.75	1NCP6	5
	0.420"	0.038"	0.381"	5.31	1NCP7	5
	0.420"	0.042"	0.442"	7	1NCP8	5
	0.420"	0.055"	0.661"	14.93	1NCP9	5
	0.480"	0.038"	0.315"	4.65	1NCR1	5
	0.480"	0.042"	0.379"	6.16	1NCR2	5
	0.480"	0.045"	0.404"	7.42	1NCR3	5
	0.480"	0.055"	0.565"	13.19	1NCR4	5
	0.480"	0.063"	0.694"	19.11	1NCR5	5
	0.600"	0.045"	0.350"	6.01	1NCR6	5
	0.600"	0.055"	0.427"	10.62	1NCR7	5
	0.600"	0.063"	0.552"	15.39	1NCR8	5
1¾"	0.600"	0.067"	0.705"	18.19	1NCR9	5
	0.600"	0.072"	0.939"	22.31	1NCT1	5
2"	0.720"	0.055"	0.421"	8.92	1NCT2	5
	0.720"	0.063"	0.616"	13.01	1NCT3	5
	0.720"	0.072"	0.686"	18.83	1NCT5	5
High Carbon Steel Music Wire						
½"	0.120"	0.016"	0.205"	1.87	1NBY2	5
	0.180"	0.018"	0.132"	1.75	1NBY4	5
	0.300"	0.022"	0.106"	1.89	1NBY5	5
	0.360"	0.032"	0.145"	4.5	1NBY6	5
	0.480"	0.045"	0.192"	9.1	1NBY7	5
⅝"	0.240"	0.032"	0.273"	6.72	1NBZ2	5
¾"	0.240"	0.038"	0.390"	10.58	1NBZ8	5
	0.360"	0.026"	0.138"	2.52	1NBZ9	5
	0.600"	0.072"	0.397"	26.52	1NCA1	5
	0.720"	0.055"	0.221"	10.58	1NCA2	5
	0.720"	0.063"	0.284"	15.51	1NCA3	5
13⁄16"	0.300"	0.045"	0.417"	14.28	1NCA7	5
	0.360"	0.045"	0.339"	11.84	1NCB1	5
⅞"	0.240"	0.026"	0.287"	3.76	1NCB3	5
	0.480"	0.055"	0.373"	15.58	1NCB9	5
	0.480"	0.063"	0.457"	22.75	1NCC1	5
	0.600"	0.045"	0.226"	7.2	1NCC2	5
	0.720"	0.072"	0.361"	22.56	1NCC3	5
1"	0.180"	0.032"	0.601"	12.18	1NCC4	5
	0.240"	0.032"	0.425"	6.72	1NCC5	5
	0.300"	0.026"	0.229"	3.05	1NCC6	5
1⅛"	0.360"	0.026"	0.190"	2.56	1NCC8	5
1¼"	0.600"	0.072"	0.596"	30.6	1NCC9	5
	0.720"	0.063"	0.441"	15.58	1NCD2	5
	0.720"	0.072"	0.470"	22.77	1NCD3	5
1½"	0.240"	0.038"	0.772"	10.71	1NCD4	5
	0.300"	0.045"	0.743"	14.04	1NCD8	5
	0.360"	0.032"	0.338"	4.57	1NCD9	5
	0.360"	0.042"	0.527"	9.72	1NCE2	5
	0.360"	0.045"	0.586"	11.7	1NCE3	5
	0.420"	0.038"	0.381"	6.37	1NCE4	5
	0.420"	0.042"	0.442"	8.4	1NCE5	5
	0.420"	0.055"	0.661"	17.92	1NCE6	5
	0.480"	0.045"	0.404"	8.91	1NCE9	5
	0.480"	0.055"	0.565"	15.84	1NCF1	5
	0.480"	0.063"	0.694"	22.94	1NCF2	5
	0.600"	0.045"	0.350"	7.22	1NCF3	5
	0.600"	0.055"	0.427"	12.75	1NCF4	5
	0.600"	0.063"	0.552"	18.48	1NCF5	5
2"	0.600"	0.072"	0.939"	26.78	1NCF7	5
	0.720"	0.055"	0.421"	10.71	1NCF8	5
	0.720"	0.063"	0.616"	15.62	1NCF9	5
	0.720"	0.072"	0.686"	22.6	1NCG2	5



Torsion Springs

With straight legs and ends.

Note: Additional sizes are available; on Grainger.com®, search for "torsion springs."

Outside Dia.	Wire Dia.	Leg Length	Max. Rod Outside Dia.	Spring Length @ Torque	No. of Coils	Torque @ ½ Leg Length (in.-lb.)*	Pkg. Qty.	302 STAINLESS STEEL RIGHT-HAND WOUND Item No.	302 STAINLESS STEEL LEFT-HAND WOUND Item No.
90° Angle of Deflection									
0.776"	0.095"	3.00"	0.453"	1.500"	3.25	16.000	1	3HPR6	3HPP3
0.848"	0.105"	3.50"	0.500"	1.750"	3.25	20.970	1	3HPR7	3HPP4
0.989"	0.125"	4.00"	0.591"	2.000"	4.25	32.000	1	3HPR9	3HPP6
1.102"	0.135"	4.00"	0.666"	2.000"	4.25	40.000	1	3HPT2	3HPP8
180° Angle of Deflection									
0.982"	0.105"	3.50"	0.609"	1.750"	7.00	21.000	1	3HPT1	3HPP7
1.082"	0.125"	4.00"	0.666"	2.000"	9.00	32.000	1	3HPT3	3HPP9
1.189"	0.135"	4.00"	0.735"	2.000"	9.00	40.000	1	3HPT4	3HPR1
1.356"	0.125"	4.00"	0.885"	2.000"	7.00	32.000	1	3HPT5	3HPR2
360° Angle of Deflection									
0.798"	0.063"	2.00"	0.516"	1.000"	10.50	5.150	1	3HPR8	3HPP5
1.755"	0.135"	4.00"	1.188"	2.000"	12.50	40.000	1	3HPR5	3HPP2

Outside Dia.	Wire Dia.	Leg Length	Max. Rod Outside Dia.	Spring Length @ Torque	No. of Coils	Torque @ ½ Leg Length (in.-lb.)*	Pkg. Qty.	CARBON STEEL MUSIC WIRE RIGHT-HAND WOUND Item No.	CARBON STEEL MUSIC WIRE LEFT-HAND WOUND Item No.
90° Angle of Deflection									
0.160"	0.017"	0.50"	0.093"	0.250"	3.25	0.125	6	3HPC3	3HPF8
0.235"	0.025"	0.75"	0.140"	0.375"	3.25	0.402	6	3HPC4	3HPF9
0.281"	0.030"	1.00"	0.172"	0.500"	3.25	0.670	6	3HPC5	3HPG1
0.288"	0.032"	1.00"	0.172"	0.500"	3.25	0.879	6	3HPC6	3HPG2
0.309"	0.040"	1.25"	0.187"	0.625"	4.25	1.473	6	3HPC8	3HPG4
0.315"	0.035"	1.25"	0.187"	0.625"	3.25	1.071	6	3HPC7	3HPG3
0.357"	0.045"	1.25"	0.203"	0.625"	4.25	2.143	6	3HPC9	3HPG5
0.375"	0.048"	1.25"	0.218"	0.625"	4.25	2.679	6	3HPD1	3HPG6
0.408"	0.051"	2.00"	0.234"	1.000"	4.25	3.107	6	3HPD2	—
0.484"	0.054"	2.00"	0.296"	1.000"	3.25	3.509	6	3HPD3	3HPG8
0.499"	0.059"	2.00"	0.296"	1.000"	4.25	4.500	6	3HPD4	3HPG9
0.560"	0.063"	2.00"	0.343"	1.000"	4.25	5.518	6	3HPD5	3HPH1
0.678"	0.078"	2.00"	0.406"	1.000"	4.25	10.446	6	3HPD6	3HPH2
0.776"	0.095"	3.00"	0.453"	1.500"	3.25	17.140	1	3HPL9	3HPK6
0.848"	0.105"	3.50"	0.500"	1.750"	3.25	22.470	1	3HPN1	3HPK7
0.989"	0.125"	4.00"	0.591"	2.000"	4.25	34.290	1	3HPN3	3HPK9
1.102"	0.135"	4.00"	0.666"	2.000"	4.25	42.860	1	3HPN5	3HPL2
180° Angle of Deflection									
0.133"	0.014"	0.50"	0.078"	0.250"	6.00	0.075	6	3HPD8	3HPH4
0.224"	0.025"	0.75"	0.140"	0.375"	7.00	0.402	6	3HPE3	3HPH8
0.249"	0.028"	1.00"	0.140"	0.500"	7.00	0.552	6	3HPE4	3HPH9
0.404"	0.048"	1.25"	0.250"	0.625"	8.00	2.679	6	3HPE6	3HPJ2
0.767"	0.063"	2.00"	0.500"	1.000"	6.00	5.518	6	3HPE8	3HPJ4
0.803"	0.078"	2.00"	0.500"	1.000"	7.00	10.446	6	3HPE9	3HPJ5
0.982"	0.105"	3.50"	0.609"	1.750"	7.00	22.500	1	3HPN4	3HPL1
1.082"	0.125"	4.00"	0.666"	2.000"	9.00	34.280	1	3HPN6	3HPL3
1.189"	0.135"	4.00"	0.735"	2.000"	9.00	42.860	1	3HPN7	3HPL4
1.356"	0.125"	4.00"	0.885"	2.000"	7.00	34.290	1	3HPN8	3HPL5
270° Angle of Deflection									
0.556"	0.045"	2.00"	0.359"	1.000"	7.75	2.143	6	3HPF5	3HPK1
0.826"	0.070"	2.00"	0.531"	1.000"	8.75	7.500	6	3HPF6	3HPK2
1.342"	0.105"	3.50"	0.891"	1.750"	7.75	22.500	1	3HPN9	3HPL6
1.666"	0.135"	4.00"	1.112"	2.000"	9.75	42.860	1	3HPL7	3HPK4
360° Angle of Deflection									
0.271"	0.021"	1.00"	0.187"	0.500"	9.50	0.234	6	3HPF7	3HPK3
0.798"	0.063"	2.00"	0.516"	1.000"	10.50	5.520	1	3HPN2	3HPK8
90° Angle of Deflection									
0.408"	0.051"	2.00"	0.234"	1.000"	3.25	3.107	6	—	3HPG7

** Torque @ ½ Leg Length is a reference.*



NAAMS Series Die Spring



ISO D Die Spring

Raymond™

Die Springs

High-strength chromium alloy steel springs have ground square ends and are color-coded by duty performance for easy sorting and selection when replacement is needed. ISO D Die Springs are manufactured to ISO10243 standards and are designed to be interchangeable with other manufacturers' springs of the same size, type, and color.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

				Standard Die Springs				ISO D Die Spring		
For Rod Size	For Hole Size	Overall Length	Pkg. Qty.	BLUE - MEDIUM DUTY Item No.	RED - MEDIUM HEAVY DUTY Item No.	GOLD - HEAVY DUTY Item No.	GREEN - EXTRA HEAVY DUTY Item No.	BLUE - MEDIUM DUTY Item No.	GREEN - LIGHT DUTY Item No.	RED - HEAVY DUTY Item No.
3⁄16"	3⁄8"	1"	10	44U469	44U573	44U671	44U769	44V034	44U924	44V146
		2"	1	44U473	44U577	44U675	44U773	44V038	44U928	44V150
		3"	1	44U475	44U579	44U677	44U775	44V040	44U930	44V152
		12"	1	44U476	44U580	44U678	44U776	44V041	44U931	44V153
9⁄32"	1⁄2"	1"	10	44U477	44U581	—	—	44V042	44U932	44V154
		1"	1	—	—	44U679	44U777	—	—	—
		2"	1	44U481	44U585	44U683	44U781	44V046	44U936	44V158
		3"	1	44U483	44U587	44U685	44U783	44V048	44U938	44V160
		4"	1	—	—	—	—	44V050	44U940	44V162
		12"	1	44U489	44U589	44U687	44U785	44V051	44U941	44V163
11⁄32"	5⁄8"	1"	10	44U490	—	—	—	—	44U942	—
		1"	1	—	44U590	44U688	44U786	44V052	—	44V164
		2"	1	44U494	44U594	44U692	44U790	44V056	44U946	44V168
		3"	1	44U496	44U596	44U694	44U792	44V058	44U948	44V170
		4"	1	44U498	44U598	44U696	44U794	44V060	44U950	44V172
		12"	1	44U499	44U599	44U697	44U795	44V062	44U952	44V174
3⁄8"	3⁄4"	1"	1	44U501	44U601	44U698	44U796	44V063	44U953	44V175
		2"	1	44U505	44U605	44U703	44U801	44V067	44U957	44V179
		3"	1	44U507	44U607	44U705	44U803	44V069	44U959	44V181
		4"	1	44U509	44U609	44U707	44U805	44V071	44U961	44V183
		5"	1	44U511	44U611	44U709	44U807	44V073	44U963	44V185
		6"	1	44U513	44U613	44U711	44U809	44V075	44U965	44V187
		12"	1	44U516	44U614	44U712	44U810	44V076	44U966	44V188
1⁄2"	1"	1"	1	44U517	44U615	44U713	—	44V077	44U967	44V189
		2"	1	44U521	44U619	44U717	44U812	44V081	44U971	44V193
		3"	1	44U523	44U621	44U719	44U814	44V083	44U973	44V195
		4"	1	44U525	44U623	44U721	44U816	44V085	44U975	44V197
		5"	1	44U527	44U625	44U723	44U818	44V087	44U977	44V199
		6"	1	44U529	44U627	44U725	44U819	44V089	44U979	44V202
		7"	1	44U530	44U628	44U726	—	44V090	44U980	44V203
		8"	1	44U531	44U629	44U727	—	44V091	44U981	44V204
		12"	1	44U532	44U630	44U728	44U820	44V092	44U982	44V205
5⁄8"	1 1⁄4"	2"	1	44U535	44U633	44U731	44U821	44V095	44U985	44V208
		3"	1	44U537	44U635	44U733	44U823	44V097	44U987	44V210
		4"	1	44U539	44U637	44U735	44U825	44V099	44U989	44V212
		5"	1	44U541	44U639	44U737	44U827	44V102	44U991	44V214
		6"	1	44U543	44U641	44U739	44U828	44V104	44U993	44V216
		7"	1	44U544	44U642	44U740	—	44V105	44U994	44V217
		8"	1	44U545	44U643	44U741	44U829	44V106	44U995	44V218
		10"	1	44U546	44U644	44U742	44U830	44V107	44U996	44V219
		12"	1	44U547	44U645	44U743	44U831	44V108	44U997	44V220
3⁄4"	1 1⁄2"	2"	1	44U548	44U646	44U744	44U832	44V109	44U998	44V221
		3"	1	44U550	44U648	44U746	44U834	44V111	44V001	44V223
		4"	1	44U552	44U650	44U748	44U836	44V113	44V003	44V225
		5"	1	44U554	44U652	44U750	44U838	44V115	44V005	44V227
		6"	1	44U556	44U654	44U752	44U839	44V117	44V007	44V229
		7"	1	44U557	44U655	44U753	—	44V118	44V008	44V230
		8"	1	44U558	44U656	44U754	44U840	44V119	44V009	44V231
		10"	1	44U559	44U657	44U755	44U841	44V120	44V010	44V232
		12"	1	44U560	44U658	44U756	44U842	44V121	44V011	44V233
1"	2"	3"	1	44U562	44U660	44U758	44U844	44V123	44V013	44V235
		4"	1	44U564	44U662	44U760	44U846	44V125	44V015	44V237
		5"	1	44U566	44U664	44U762	44U848	44V127	44V017	44V239
		6"	1	44U568	44U666	44U764	44U849	44V129	44V019	44V241
		7"	1	44U569	44U667	44U765	—	44V130	44V020	44V242
		8"	1	44U570	44U668	44U766	44U850	44V131	44V021	44V243
		10"	1	44U571	44U669	44U767	44U851	44V133	44V022	44V244
		12"	1	44U572	44U670	44U768	44U852	44V134	44V023	44V245
1 1⁄2"	2 1⁄2"	3"	1	—	—	—	—	44V135	44V024	44V246
		4"	1	—	—	—	—	44V137	44V026	44V248
		5"	1	—	—	—	—	44V139	44V028	44V250
		6"	1	—	—	—	—	44V140	44V029	44V251
		7"	1	—	—	—	—	44V141	44V030	44V252
		8"	1	—	—	—	—	44V142	44V031	44V253
		9"	1	—	—	—	—	44V143	—	44V254
		10"	1	—	—	—	—	44V144	44V032	44V255
		12"	1	—	—	—	—	44V145	44V033	44V256



Utility Compression Springs

Excellent for static or low-cycle applications. For spring stock, determine spring rate by dividing the spring constant by the total number of coils used once the spring has been cut to the desired length. Meet ASTM A227 standard.

Note: Additional sizes are available; on Grainger.com®, search for "compression springs."

Overall Length	Outside Dia.	Wire Dia.	Pkg. Qty.	Item No.
Precut Springs - High Carbon Steel, Zinc-Plated, Closed Ends				
1"	0.250"	0.029"	12	1NBV1
	0.312"	0.029"	12	1NBV2
	0.312"	0.035"	12	1NBV3
1 1⁄4"	0.188"	0.023"	12	1NBV4
	0.375"	0.035"	12	1NBV5
1 1⁄2"	0.312"	0.035"	12	1NBV6
	0.375"	0.048"	12	1NBV7
2"	0.188"	0.023"	12	1NBV8
	0.312"	0.029"	12	1NBV9
2 1⁄2"	0.250"	0.029"	12	1NBW1
	0.438"	0.048"	12	1NBW2

Outside Dia.	Wire Dia.	Coils Per Inch	Constant	Item No.	Pkg. Qty.
12" Long Spring Stock					
High Carbon Steel, Pregalvanized Finish, Open Ends					
0.184"	0.023"	12	96.4	1NBW3	3
0.206"	0.026"	11	108.8	1NBW4	3
0.229"	0.029"	11	119.5	1NBW5	3
0.254"	0.032"	9.25	132.1	1NBW6	3
0.278"	0.035"	9.5	146.5	1NBW7	3
0.328"	0.041"	8	171.7	1NBW8	3
0.375"	0.041"	6	109.0	1NBW9	3
0.380"	0.048"	7	199.0	1NBX1	3
0.432"	0.054"	6.5	226.3	1NBX2	3
0.500"	0.063"	5	261.9	1NBX3	3
0.576"	0.072"	4.5	301.8	1NBX4	3
0.640"	0.080"	4.25	335.3	1NBX5	3
0.732"	0.092"	3.75	383.4	1NBX6	3
0.844"	0.106"	3.25	442.1	1NBX7	3
0.964"	0.121"	3	505.0	1NBX8	3

GRAINGER MOBILE



Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> To download the app, visit **grainger.com/content/mobile-features**

Anchor Information

DEFINITIONS

Minimum Embedment—Minimum depth in which the anchor must be set to function properly.

Tension Strength—Ultimate parallel load an anchor can withstand before pulling out of the base material.

Shear Strength—Ultimate perpendicular load an anchor can handle before breaking.

ANCHOR TYPES



Wedge
Fully threaded masonry with stud bolt body, split expansion ring, integral cone expander, nut, and washer. Use to fasten fixtures to a solid base material. See page 2162, 2163, 2164.



Drop-In
Internally threaded, shallow embedment anchors preassembled with an internal expansion plug for use in concrete. See page 2166.



Sleeve
Threaded stud with an outwardly flared cone-shaped end. Use to fasten steel, aluminum, wood panels, doors, framing, and shelving to concrete. See page 2165.



Expansion
Provide quick installation of lightweight fixtures in masonry and concrete. Use with lag, wood, or sheet metal screws. See page 2163.



Stud
Use to anchor pipe run supports, blowers, pumps, and support racks. Bottom-bearing is for jacking and leveling items. See page 2163.



Hammer-Drive
Nail-like devices consisting of an expander drive pin and an expansion sleeve. Used to anchor items to brick and concrete surfaces. See page 2168.



Self-Threading
Removable structural anchors work in concrete or hollow block. For high-load capacity applications. See page 2167.



Masonry
Excellent for wood-to-concrete applications. Notched high-low threads cut into masonry for stability; tapered shank provides wedging action for a strong hold. Can be removed and reinstalled. See page 2167.



Hollow-Wall
For use in thin or hollow base materials like concrete block, drywall, paneling, or plaster. See pages 2168, 2170.



Drywall
Self-drilling anchors preserve drywall integrity at installation, and stay in place while screws back out easily. See page 2170.



Umbrella Anchor



Steel Wire Brush



Stainless Steel Anchor Screen

RED HEAD CONCRETE ANCHORING SYSTEMS ★ GA GRAINGER APPROVED

Anchor Accessories

Plastic Umbrella Anchor No. 5HE70 has a large bearing surface inside the block that provides consistent high-load capacity. For hollow-block fastening to face of concrete block, clay tile, or terra cotta.

Description	Brand	Item No.	Pkg. Qty.
Plastic Umbrella Anchor For ¼ to ½" Rod			
Fit ¾" Hole, Min. Hole Depth 3¾"	Red Head	**5HE70**	20
Epoxy Anchor Screen			
Stainless Steel			
Fit ⅜" Hole, 1/4 x 2"	Red Head	**4AL18**	1
Fit ½" Hole,	Red Head	**4AL19**	1
Fit ⅝" Hole, 1/2 x 3½"	Red Head	**4AL23**	1
Fit ¾" Hole, 5/8 x 4½"	Red Head	**4AL27**	1
Nylon			
Fit ⅝" Hole, 1/2 x 6"	Red Head	**4UJ84**	1
Fit ½" Hole, 3/8 x 6"	Red Head	**4UJ86**	1
Fit ½" Hole, 3/8 x 8"	Red Head	**4UJ87**	1
Fit ¾" Hole, 5/8 x 6"	Red Head	**4UJ88**	1
Wire Brushes			
Nylon			
½" Hole Dia.	GA	**11M968**	1
¾" Hole Dia.	GA	**11M969**	1
1" Hole Dia.	GA	**11M970**	1
1¼" Hole Dia.	GA	**11M971**	1
1½" Hole Dia.	GA	**11M972**	1
Steel			
⅜" Hole Dia.	GA	**11M973**	1
⅝" Hole Dia.	GA	**11M974**	1
1" Hole Dia.	GA	**11M977**	4
1¼" Hole Dia.	GA	**11M978**	4
1½" Hole Dia.	GA	**11M979**	4
1⅝" Hole Dia.	GA	**11M980**	4
1¼" Hole Dia.	GA	**11M981**	4
Wire Brush Extension,w/SDS Adaptor	GA	**11M982**	1
Wire Brush Manual Hand Tool	GA	**11M983**	1



No. 4AL05



No. 4AL07

RED HEAD CONCRETE ANCHORING SYSTEMS

Condrive®1000 Tool and Bits

Note: For optimum performance bit diameter must equal anchor diameter.

Description	Item No.
Tapcon® Condrive 1000 Test	
Declutching Nosepiece on Drive Sleeve, Built-in Nosepiece Countersink	**4AL05**
Tapcon® Slotted Shank Bits	
3⁄16" x 4½"	**4AL07**
3⁄16" x 5½"	**4AL08**
" x "	**4AL10**
¼" x 5½"	**4AL11**



No. 6JKW7



No. 6JKW8

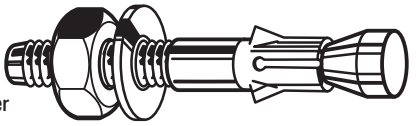
★ GA GRAINGER APPROVED DFS/USA A product of the AmeriScandia spirit.®

Anchor Drivers

- Straight shank bits

Description	Application	Brand	Item No.
Drivers			
Con-Sert Tool #8,For Masonry Screws	Drill and Set Con-sert Screws in Concrete, Brick, Stone, Wood, Vinyl and Light Steel	GA	**6JKW7**
Replacement Drill Bit			
⅛", Carbide Steel, For Use With Hammer Drill, Regular Drill		Diversified Fastening Systems	**6JKW8**

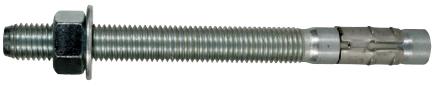
Wedge Anchors



- Include nuts and washer
- Non-seismic

Anchor Dia.	Anchor Length	Max. Work Thickness	Ultimate Tension in 4000 psi Concrete (lb.)	STEEL Thread Length	STEEL Item No.	STEEL Pkg. Qty.	STAINLESS STEEL Thread Length	STAINLESS STEEL Item No.	STAINLESS STEEL Pkg. Qty.
	1¾"	⅛"	1870	⅝"	**31JP09**	50	—	—	—
¼"	2¼"	⅜"	1870	1⅛"	**31JP10**	50	1⅛"	**31JP45**	50
	3¼"	1⅜"	1870	2⅛"	**31JP11**	50	2⅛"	**31JP46**	50
5⁄16"	3½"	1⅛"	2530	—	—	—	2¼"	**31JP47**	25
	2¼"	3⁄16"	3300	¾"	**31JP12**	25	¾"	**31JP48**	25
	2¾"	⅜"	3300	1¼"	**31JP13**	25	1¼"	**31JP49**	25
⅜"	3"	9⁄16"	3300	1½"	**31JP14**	10	1½"	**31JP50**	10
	3¾"	1⅛"	3300	2¼"	**31JP15**	10	2¼"	**31JP51**	10
	5"	2⅜"	3300	3½"	**31JP16**	10	3½"	**31JP52**	10
	2¾"	⅛"	5280	1"	**31JP17**	10	1"	**31JP53**	10
	3¾"	11⁄16"	5280	2"	**31JP18**	10	2"	**31JP54**	10
	4¼"	¾"	5280	2½"	**31JP19**	10	2½"	**31JP55**	10
½"	4½"	1½"	5280	2¾"	**31JP20**	10	—	—	—
	5½"	2"	5280	3¾"	**31JP21**	5	3¾"	**31JP56**	5
	7"	3⅛"	5280	5¼"	**31JP22**	5	5¼"	**31JP57**	5
	8½"	3⅛"	5280	6¾"	**31JP23**	5	—	—	—
	3½"	⅛"	7480	1⁵⁄16"	**31JP24**	5	—	—	—
	4½"	9⁄16"	7480	2⅝"	**31JP25**	5	2¹³⁄16"	**31JP58**	5
	5"	1⅛"	7480	2¹³⁄16"	**31JP26**	2	3¹³⁄16"	**31JP59**	2
⅝"	6"	2"	7480	3¹³⁄16"	**31JP27**	2	4¹³⁄16"	**31JP60**	2
	7"	3⅛"	7480	4¹³⁄16"	**31JP28**	2	6⅝"	**31JP61**	2
	8½"	3⅛"	7480	6⅝"	**31JP29**	2	—	—	—
	10"	3⅛"	7480	7¹³⁄16"	**31JP30**	2	—	—	—
	4¼"	9⁄16"	11880	1¾"	**31JP31**	2	1¾"	**31JP62**	2
	4¾"	1"	11,880	2¼"	**31JP32**	2	—	—	—
	4¾"	1"	11880	—	—	—	2¼"	**31JP63**	2
	5½"	1⁵⁄16"	11880	3"	**31JP33**	2	3"	**31JP64**	2
	6¼"	1¾"	11,880	3¾"	**31JP34**	2	—	—	—
¾"	7"	2"	11,880	4½"	**31JP35**	2	—	—	—
	7"	2"	11880	—	—	—	4½"	**31JP65**	2
	8½"	3⅛"	11880	6"	**31JP36**	2	6"	**31JP66**	2
	10"	3⅛"	11880	7½"	**31JP37**	2	—	—	—
	12"	3⅛"	11880	3¼"	**31JP38**	2	—	—	—
	12"	4"	11880	—	—	—	3¼"	**31JP67**	2
	6"	1⅛"	12980	3½"	**31JP39**	2	—	—	—
⅞"	8"	3⅛"	12980	3⅞"	**31JP40**	2	—	—	—
	10"	3⅛"	12980	3⅞"	**31JP41**	2	—	—	—
	6"	1"	15840	2⅞"	**31JP42**	1	2⅞"	**31JP68**	1
1"	9"	4"	15840	3⅞"	**31JP43**	1	3⅞"	**31JP69**	1
	12"	4"	15840	3⅞"	**31JP44**	1	—	—	—

Strong-Bolt® 2 Seismic Wedge Anchors



SIMPSON Strong-Tie

- Category 1 Anchor Classification
- Static tension and shear loading in cracked and uncracked concrete

Use in all structural applications, including racking, equipment shelving, bracing, and seating. Use in static, seismic, and wind loading applications. Comply with ICC-ES ESR-3037.

Tested per ICC-ES AC193 to meet current cracked concrete anchor codes.

Tension in Uncracked Concrete (lb.) 2500 psi	Tension in Uncracked Concrete (lb.) 6500 psi	Tension in Cracked Concrete (lb.) 2500 psi	Tension in Cracked Concrete (lb.) 6500 psi	Shear in Uncracked Concrete (lb.) 2500 psi	Shear in Uncracked Concrete (lb.) 6500 psi	Shear in Cracked Concrete (lb.) 2500 psi	Shear in Cracked Concrete (lb.) 6500 psi	Min. Embedment	Overall Length	Max. Work Thickness	Thread Length	Item No.	Pkg. Qty.
⅜" Anchor Dia.													
970	1560	570	920			740		1⅞"	2¾"	⅜"	1⁵⁄16"	**13N542**	50
				790	790		790	1⅞"	3½"	1⅛"	2⅛"	**13N544**	50
1465	2365	1220	1965			790		2⅞"	3¾"	⅜"	2⁵⁄16"	**13N545**	50
								2⅞"	5"	1⅝"	3⁹⁄16"	**13N546**	50
								2⅞"	7"	3⅝"	5⁹⁄16"	**13N547**	50
½" Anchor Dia.													
1585	2560	1260	2030	1790	2885	1275	2060	2¾"	4¾"	1¼"	3¹⁄16"	**24C192**	25
1590				1915	3090	1355	2190	2¾"	3¾"	½"	2⅛"	**13A980**	25
								3⅞	5½"	1⅛"	3¹³⁄16"	**13A982**	25
2310	3720	1640	2645	3180	3180	3180	3180	3⅞	7"	2⅝"	5⁹⁄16"	**13A983**	25
								3⅞	8½"	4⅛"	6"	**13A984**	25
								3⅞	10"	5⅜"	6"	**13A979**	25
⅝" Anchor Dia.													
2405	3875	1700	2745			3665		3⅜"	4½"	½"	2⁷⁄16"	**13A986**	20
				4845	4845		4845	3⅜"	5"	1"	2¹⁵⁄16"	**13A987**	20
						4845		5⅛"	6"	¼"	3¹⁵⁄16"	**13A988**	20
3965	6390	3030	4885					5⅛"	7"	1¼"	4¹⁵⁄16"	**13A989**	20
								5⅛"	8½"	2¾"	6"	**13A990**	20
								5⅛"	10"	4¼"	6"	**13A985**	10
¾" Anchor Dia.													
2765	4460	1960	3160					4⅛"	5½"	⅝"	3⅜"	**13A992**	10
				4320	4320	4320	4320	4⅛"	6¼"	1⅜"	3¹⁵⁄16"	**13A993**	10
3500	5645	3530	5695					5¾"	10"	3½"	6"	**13A991**	10
								5¾"	7"	½"	4¹¹⁄16"	**13A994**	10
								5¾"	8½"	2"	6"	**13N541**	10
1" Anchor Dia.													
3105	5010	2860	4615	6090	6090	6090	6090	5¼"	7"	¾"	3½"	**13A978**	5
3600	5805	4155	6700					5¼"	10"	3¾"	3½"	**13A976**	5
								9¾"	13"	2¼"	3½"	**13A977**	5

KeepStock® Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**



Seismic Wedge Anchors

DEWALT ENGINEERED BY Powers

- Zinc-plated carbon steel

Use in Category 1 cracked and uncracked concrete. Include nut and washer. Meet or exceed IBC, IRC, and Florida Building Code. UL Listed; FM Approved.

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1⅛"	1660	1255
⅜"	1⅝"	3100	2540
½"	2¼"	4500	4195
⅝"	2¾"	6285	6815
¾"	3⅜"	9075	12,685
⅞"	3½"	15,125	11,690
1"	4½"	20,915	21,155
1¼"	5⅜"	28,440	29,105

Anchor Length	Min. Embedment	Thread Length	Item No.	Pkg. Qty.
¼" Anchor Dia., ¼"-20 Thread				
1¾"	1⅛"	¾"	**46U117**	100
2¼"	1⅛"	1¼"	**46U118**	100
3¼"	1⅛"	2¼"	**46U119**	100
⅜" Anchor Dia., ⅜"-16 Thread				
2¼"	1⅜"	⅞"	**46U120**	50
2¾"	1⅜"	1⅜"	**46U121**	50
3"	1⅜"	1⅜"	**46U122**	50
3½"	1⅜"	2⅛"	**46U123**	50
3¾"	1⅜"	2⅜"	**46U124**	50
5"	1⅜"	3⅜"	**46U125**	50
7"	1⅜"	5⅜"	**46U126**	50
½" Anchor Dia., ½"-13 Thread				
2¾"	2¼"	1"	**46U127**	50
3¾"	2¼"	2"	**46U128**	50
4½"	2¼"	2¾"	**46U129**	50
5½"	2¼"	3¾"	**46U130**	50
7"	2¼"	5¼"	**46U131**	25
8½"	2¼"	6¾"	**46U132**	25
10"	2¼"	8¼"	**46U133**	25
⅝" Anchor Dia., ⅝"-11 Thread				
3½"	2¾"	1½"	**46U134**	25
4½"	2¾"	2½"	**46U135**	25
5"	2¾"	3"	**46U136**	25
6"	2¾"	4"	**46U137**	25
7"	2¾"	5"	**46U138**	25
8½"	2¾"	6½"	**46U139**	25
10"	2¾"	8"	**46U140**	25
¾" Anchor Dia., ¾"-10 Thread				
4¼"	3⅜"	1¾"	**46U141**	20
4¾"	3⅜"	2¼"	**46U142**	20
5½"	3⅜"	3"	**46U143**	20
6¼"	3⅜"	3¾"	**46U144**	20
7"	3⅜"	4½"	**46U145**	20
8½"	3⅜"	6"	**46U146**	10
10"	3⅜"	7½"	**46U147**	10
12"	3⅜"	9½"	**46U149**	10
⅞" Anchor Dia., ⅞"-9 Thread				
6"	3½"	2¾"	**46U148**	10
8"	3½"	4¾"	**46U150**	10
10"	3½"	6¾"	**46U151**	10
1" Anchor Dia., 1"-8 Thread				
6"	4½"	2⅜"	**46U152**	10
9"	4½"	5⅜"	**46U153**	10
12"	4½"	8⅜"	**46U154**	5

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	Ultimate Shear (lb.)
¼"	1½"	1015	1472
⅜"	2⁷⁄₁₆"	2367	3151
½"	2⁹⁄₁₆"	5068	6828
⅝"	3⅜"	5556	9659
¾"	4⅝"	11,975	15,126
⅞"	4"	13,902	21,574
1"	4½"	15,829	28,023
1¼"	6½"	23,090	33,000

Anchor Length	Max. Work Thickness	Thread Length	Item No.	Pkg. Qty.
¼" Anchor Dia., ¼"-20 Thread				
1¾"	⅜"	⅞"	**4KHT5**	100
2¼"	⅞"	1⅜"	**4KHT6**	100
3¼"	1⅞"	2¼"	**4KHT7**	100
⅜" Anchor Dia., ⅜"-16 Thread				
2¼"	¼"	1³⁄₁₆"	**4KHT8**	50
3"	1"	1⅞"	**4KHT9**	50
3¾"	1¾"	2⅝"	**4KHU1**	50
5"	3"	4"	**4KHU2**	50
½" Anchor Dia., ½"-13 Thread				
2¾"	⅛"	1½"	**4KHU3**	50
4¼"	1½"	3"	**4KHU4**	50
5½"	2¾"	4"	**4KHU5**	50
7"	4¼"	1¼"	**4KHU6**	25

Anchor Length	Max. Work Thickness	Thread Length	Item No.	Pkg. Qty.
⅝" Anchor Dia., ⅝"-11 Thread				
3½"	⅛"	1⅝"	**4KHU7**	25
4½"	1⅛"	2⅝"	**4KHU8**	25
5"	1⅜"	3¼"	**4KHU9**	25
6"	2⅜"	4⅛"	**4KHV1**	25
⅝" Anchor Dia., ⅝ x 8"-1/2 Thread				
8½"	5⅛"	1½"	**4KHV3**	25
¾" Anchor Dia., ¾"-10 Thread				
4¼"	⅛"	2⅛"	**4KHV4**	25
4¾"	⅝"	2⅛"	**4KHV5**	25
5½"	1⅜"	3⅝"	**4KHV6**	20
6¼"	2⅛"	4¼"	**4KHV7**	20
7"	2⅛"	2"	**4KHV8**	15
8½"	4⅜"	2"	**4KHV9**	15
10"	5⅞"	2"	**4KHW1**	15
⅞" Anchor Dia., ⅞"-9 Thread				
6"	1⅛"	2¼"	**4KHW2**	10
8"	3⅛"	2¼"	**4KHW3**	10
10"	5⅛"	2¼"	**4KHW4**	10
1" Anchor Dia., 1"-8 Thread				
6"	½"	2¼"	**4KHW5**	10
9"	3½"	2¼"	**4KHW6**	10
1¼" Anchor Dia., 1 ¼"-7 Thread				
9"	1¼"	3¼"	**4KHW7**	5
12"	4¼"	3¼"	**4KHW8**	5



MKT

Sup-R-Stud® Grade 5 Wedge Anchors

- Yellow, dichromate steel
- Non-seismic rated

Can be used for immediate setting and loading. Yellow electroplating permits easy recognition after installation. Commonly used in conveyor systems, pipe hanging, racking, machinery, and anchoring. Include nut and washer. Meet Federal G.S.A. Specifications FF S-325C Group II, Type 4, Class I.

Note: Safe working loads should not exceed 25% of ultimate values.

Wedge And Seismic Anchors

MKT

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	Ultimate Shear (lb.)
¼"	1⅛"	1015	1472
⅜"	1⅝"	2367	3151
½"	2¼"	5068	6828
⅝"	2¾"	5556	9659
¾"	3⅜"	11975	15126
⅞"	4"	13902	21574
1"	4½"	15829	28023
1¼"	6½"	23090	33000



Anchor Dia.	Anchor Length	Max. Work Thickness	Galvanized Steel Thread Length	Item No.	Pkg. Qty.	Zinc Plated Thread Length	Item No.	Pkg. Qty.	303/304 Stainless Steel Thread Length	Item No.	Pkg. Qty.	316 Stainless Steel Thread Length	Item No.	Pkg. Qty.
Wedge Anchor														
¼"	1¾"	⅝"	⅞"	**21U976**	20	⅞"	**21U877**	20	⅞"	**21U943**	20	⅞"	**21U927**	20
	2¼"	1⅛"	1⅜"	**21U977**	20	1⅜"	**21U878**	20	1⅜"	**21U944**	20	1⅜"	**21U912**	20
	3¼"	1"	—	—	—	—	—	—	2¼"	**21U945**	20	2¼"	**21U913**	20
	3¼"	2⅛"	2¼"	**21U978**	20	—	—	—	—	—	—	—	—	—
⅜"	2¼"	⅜"	1³⁄₁₆"	**21U979**	20	1³⁄₁₆"	**21U879**	20	1³⁄₁₆"	**21U946**	20	1³⁄₁₆"	**21U914**	20
	2¾"	1⅛"	1⅜"	**21U980**	20	1⅜"	**21U880**	20	1⅜"	**21U947**	20	1⅜"	**21U915**	20
	3"	1⅜"	1⅞"	**21U981**	20	1⅞"	**21U881**	20	1⅞"	**21U948**	20	1⅞"	**21U916**	20
	3¾"	2⅛"	2⅝"	**21U982**	20	2⅝"	**21U882**	20	2⅝"	**21U949**	20	2⅝"	**21U917**	20
	3¾"	2⅛"	—	—	—	—	—	—	2⅝"	**21V013**	400	2⅝"	**21V016**	400
	5"	3⅜"	4"	**21U983**	20	4"	**21U883**	20	4"	**21U950**	20	—	—	—
½"	2¾"	½"	1½"	**21U984**	10	1½"	**21U884**	10	1½"	**21U951**	10	1½"	**21U918**	10
	3¾"	1½"	2½"	**21U985**	10	2½"	**21U885**	10	2½"	**21U952**	10	2½"	**21U919**	10
	4¼"	2"	3"	**21U986**	10	3"	**21U886**	10	3"	**21U953**	10	3"	**21U920**	10
	4¼"	2"	—	—	—	—	—	—	4"	**21V012**	200	—	—	—
	5½"	1"	—	—	—	4"	**21U887**	10	4"	**21U954**	10	4"	**21U921**	10
	5½"	3¼"	4"	**21U987**	10	—	—	—	—	—	—	—	—	—
	7"	2½"	—	—	—	4"	**21U888**	10	1¼"	**21U955**	10	1¼"	**21U928**	10
	7"	4¾"	4"	**21U988**	10	—	—	—	—	—	—	—	—	—
⅝"	3½"	¾"	1⅝"	**21U989**	5	1⅝"	**21U889**	5	1⅝"	**21U956**	5	1⅝"	**21U929**	5
	4½"	1¾"	2⅝"	**21U990**	5	2⅝"	**21U890**	5	2⅝"	**21U957**	5	2⅝"	**21U922**	5
	5"	2¼"	3¼"	**21U991**	5	3¼"	**21U891**	5	3¼"	**21U958**	5	3¼"	**21U923**	5
	6"	⅜"	—	—	—	4⅛"	**21U892**	5	4⅛"	**21U959**	5	4⅛"	**21U924**	5
	6"	3¼"	4⅛"	**21U992**	5	—	—	—	—	—	—	—	—	—
	7"	1⅜"	—	—	—	4"	**21U893**	5	1½"	**21U960**	5	1½"	**21U930**	5
	7"	4¼"	4"	**21U993**	5	—	—	—	—	—	—	—	—	—
	8½"	2⅜"	—	—	—	—	—	—	1½"	**21U961**	5	1½"	**21U931**	5
	8½"	5¾"	4"	**21U994**	5	—	—	—	—	—	—	—	—	—
¾"	4¼"	⅛"	2⅜"	**21U995**	5	2⅜"	**21U895**	5	2⅜"	**21U962**	5	—	—	—
	4¾"	1⅜"	2⅛"	**21U996**	5	2⅛"	**21U896**	5	2⅛"	**21U963**	5	2⅛"	**21U925**	5
	5½"	2⅛"	3⅝"	**21U997**	5	3⅝"	**21U897**	5	3⅝"	**21U964**	5	3⅝"	**21U926**	5
	6¼"	2⅛"	4¼"	**21U998**	5	4¼"	**21U898**	5	4¼"	**21U965**	5	4¼"	**21U932**	5
	7"	¼"	—	—	—	4"	**21U899**	5	2"	**21U966**	5	2"	**21U941**	5
	7"	3⅝"	4"	**21U999**	5	—	—	—	—	—	—	—	—	—
	8½"	1¾"	—	—	—	4"	**21U901**	5	2"	**21U967**	5	2"	**21U942**	5
	8½"	5⅛"	4"	**21V001**	5	—	—	—	—	—	—	—	—	—
	10"	3¼"	—	—	—	4"	**21U902**	10	2"	**21U968**	4	2"	**21U933**	4
	10"	6⅜"	4"	**21V002**	4	—	—	—	—	—	—	—	—	—
	12"	5¼"	—	—	—	4"	**21U903**	5	2"	**21U969**	4	2"	**21U934**	4
	12"	8⅜"	4"	**21V003**	4	—	—	—	—	—	—	—	—	—
⅞"	6"	2"	3½"	**21V004**	4	3½"	**21U904**	4	2¼"	**21U970**	4	2¼"	**21U935**	4
	8"	4"	4"	**21V005**	4	4"	**21U905**	4	2¼"	**21U971**	4	2¼"	**21U936**	4
	10"	2"	—	—	—	4"	**21U906**	4	2¼"	**21U972**	4	2¼"	**21U937**	4
	10"	6"	4"	**21V006**	4	—	—	—	—	—	—	—	—	—
1"	6"	1½"	3½"	**21V007**	4	3½"	**21U907**	4	2¼"	**21U973**	5	2¼"	**21U938**	4
	9"	4½"	4"	**21V008**	4	4"	**21U908**	4	—	—	—	2¼"	**21U939**	4
	9"	4½"	—	—	—	—	—	—	—	—	—	2¼"	**21U974**	5
	12"	3"	—	—	—	4"	**21U909**	4	—	—	—	2¼"	**21U940**	4
	12"	3"	—	—	—	—	—	—	—	—	—	2¼"	**21U975**	5
	12"	7½"	4"	**21V009**	4	—	—	—	—	—	—	—	—	—
1¼"	9"	2½"	3¼"	**21V010**	4	3¼"	**21U910**	4	—	—	—	—	—	—
	12"	5½"	3¼"	**21V011**	4	3¼"	**21U911**	4	—	—	—	—	—	—
Seismic Wedge Anchor														
½"	3¾"	¼"	—	—	—	⅝"	**21V018**	10	—	—	—	—	—	—
	4½"	1"	—	—	—	1½"	**21V019**	10	—	—	—	—	—	—
	5½"	2"	—	—	—	2⅜"	**21V020**	10	—	—	—	—	—	—
	7"	3½"	—	—	—	3 ⅛"	**21V021**	10	—	—	—	—	—	—
⅝"	4¾"	¼"	—	—	—	⅞"	**21V022**	5	—	—	—	—	—	—
	6"	1½"	—	—	—	2"	**21V023**	5	—	—	—	—	—	—
	8½"	4"	—	—	—	4½"	**21V024**	5	—	—	—	—	—	—
	10"	5½"	—	—	—	6¼"	**21V025**	5	—	—	—	—	—	—



Expansion Anchor



Expansion Shield

MKT

Expansion Shields and Anchors

- Min. embedment equals anchor length

Note: Screw length needs to be at least the length of the anchor plus the thickness of the material.

Expansion Shields—Medium to heavy loads in dead, variable, or vibratory conditions in all types of masonry and natural stone.

Expansion Anchors—Lead anchors provide quick installation of lightweight fixtures in masonry and concrete. Not affected by chemicals or moisture.

Anchor Material	Anchor Dia.	Anchor Length	Screw Size	Item No.	Pkg. Qty.
Lag Screw Expansion Anchor					
Zinc Alloy	½"	1"	¼"	**22A658**	25
		1¼"	⁵⁄₁₆"	**22A659**	25
		1½"	¼"	**22A662**	25
	¾"	1¾"	⁵⁄₁₆"	**22A663**	25
		2"	½"	**22A661**	25
		3"	½"	**22A665**	25
	⅝"	1¾"	⅜"	**22A660**	25
		2½"	⅜"	**22A664**	25
Machine Screw Double Expansion Anchor					
Zinc Alloy	½"	1¼"	¾-10	**22A677**	5
		1⅜"	¼-20	**22A672**	25
	¾"	2¹⁄₁₆"	⅜-16	**22A674**	10
	⅝"	1³⁄₁₆"	⁵⁄₁₆-18	**22A673**	25
	⅞"	2½"	½-13	**22A675**	10
	1"	3"	⅝-11	**22A676**	5
Machine Screw Expansion Anchor					
Zinc Alloy	½"	1³⁄₁₆"	¼-20	**22A681**	25
	⅝"	1½"	⅜-16	**22A679**	10
	⅞"	2³⁄₁₆"	½-13	**22A680**	5
Machine Screw Expansion Shield					
Zinc Alloy	½"	1¼"	¾-10	**4KHZ9**	25
		1⅝"	⅝-11	**4KHZ8**	50
		1¼"	¼-20	**4KHZ4**	100
	¾"	2¼"	½-13	**4KHZ7**	50
		1½"	⁵⁄₁₆-18	**4KHZ5**	100
		1¹⁄₁₆"	⅜-16	**4KHZ6**	50
Sheet Metal Screw Expansion Anchor					
Lead	¼"	¾"	#6-8	**22A666**	100
		1"	#6-8	**22A667**	50
		1½"	#6-8	**22A668**	50
	⅜"	1"	#16-18	**22A671**	50
	⁵⁄₁₆"	1"	#10-14	**22A669**	50
		1½"	#10-14	**22A670**	50



No. 2G550

RED HEAD CONCRETE ANCHORING SYSTEMS

Trubolt® Wedge Anchors

- For use in concrete
- For increased load value, use deeper embedment
- Non-seismic rated

Fully threaded with 1-pc. wraparound stainless steel expander clip. For continuous low-temperature applications, use stainless steel anchors. Include nut and washer. Stainless steel anchors meet U.S. Government A-A-1923A Type 4.

Note: Safe working loads for single installations under static loading should not exceed 25% of the ultimate load capacity.

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1⅛"	1780	1400
⅜"	1½"	2240	2620
½"	2¼"	5100	4760
⅝"	2¾"	7180	7190
¾"	3¼"	10,840	13,720
⅞"	3¼"	7120	7180
1"	4½"	22,800	20,180

Anchor Length	Thread Length	Max. Work Thickness	Material Grade	Fastener Finish	Mfr. Model	Item No.	Pkg. Qty.
¼ in Anchor Dia.							
1 ¾ in	¾"	⅜ in	304 SS	Plain	WW-1416	**2G554**	100
	¾"	⅜ in	Medium Carbon Steel	Zinc Plated	7400SD1-PWR	**46U117**	100
2 ¼ in	1¼"	⅞ in	316 SS	Plain	SWW-1422	**15X085**	100
	1¼"	⅞ in	304 SS	Plain	WW-1422	**2G556**	100
	1¼"	⅞ in	Steel	Zinc Plated	7402SD1-PWR	**46U118**	100
3 ¼ in	2¼"	1 ⅛ in	316 SS	Plain	SWW-1432	**15X086**	100
	2¼"	1 ⅞ in	304 SS	Plain	WW-1432	**2G558**	100
	2¼"	1 ⅞ in	Steel	Zinc Plated	7404SD1-PWR	**46U119**	100
⅜ in Anchor Dia.							
2 ¼ in	1⅛"	⅜ in	304 SS	Plain	WW-3822	**2G570**	50
2 ¾ in	1⅝"	⅞ in	304 SS	Plain	WW-3826	**2G572**	50
2 ¼ in	¾"	3⁄16 in	Not Graded Steel	Zinc Plated	U70411.037.0225	**31JP12**	25
	1⅛"	⅜ in	Not Graded Steel	Zinc	WS-3822	**3A445**	50
2 ¾ in	1⅝"	⅞ in	Not Graded Steel	Zinc	WS-3826	**3A446**	50
2 ¼ in	⅞"	¼ in	Steel	Zinc Plated	7410SD1-PWR	**46U120**	50
2 ¾ in	1⅜"	¾ in	Steel	Zinc Plated	7412SD1-PWR	**46U121**	50
3 in	1¾"	1 ⅛ in	316 SS	Plain	SWW-3830	**15X091**	50
3 ¾ in	2½"	1 ⅞ in	316 SS	Plain	SWW-3836	**15X092**	50
3 in	1¾"	1 ⅛ in	304 SS	Plain	WW-3830	**2G574**	50
3 ¾ in	2½"	1 ⅞ in	304 SS	Plain	WW-3836	**2G576**	50
3 in	1⅝"	1 in	Steel	Zinc Plated	7413SD1-PWR	**46U122**	50
3 ½ in	2⅛"	1 ½ in	Steel	Zinc Plated	7414SD1-PWR	**46U123**	50
3 ¾ in	2⅜"	1 ¾ in	Steel	Zinc Plated	7415SD1-PWR	**46U124**	50
5 in	3¾"	3 ⅛ in	304 SS	Plain	WW-3850	**2G578**	50
	3⅝"	3 in	Steel	Zinc Plated	7416SD1-PWR	**46U125**	50
7 in	5⅝"	5 in	Medium Carbon Steel	Zinc Plated	7417SD1-PWR	**46U126**	50
½ in Anchor Dia.							
2 ¾ in	1¼"	⅛ in	304 SS	Plain	WW-1226	**2G560**	25
	1"	⅛ in	Not Graded Steel	Zinc Plated	U70411.050.0275	**31JP17**	10
	1"	Not Specified	Steel	Zinc Plated	7420SD1-PWR	**46U127**	50
3 ¾ in	2¼"	1 in	316 SS	Plain	SWW-1236	**15X082**	25
	2"	1⅛ in	Not Graded Steel	Zinc Plated	U70411.050.0375	**31JP18**	10
	2"	1 in	Steel	Zinc Plated	7422SD1-PWR	**46U128**	50
4 ¼ in	2¾"	1 ½ in	316 SS	Plain	SWW-1242	**15X083**	25
	2¾"	1 ½ in	304 SS	Plain	WW-1242	**2G564**	25
	3"	2 in	Steel	Galvanized	2812414	**21U986**	10
4 ½ in	2¾"	1 ¾ in	Steel	Zinc Plated	7423SD1-PWR	**46U129**	50
5 ½ in	3"	2 ¾ in	316 SS	Plain	SWW-1254	**15X084**	25
	3"	2 ¾ in	304 SS	Plain	WW-1254	**2G566**	25
	3¾"	2 ¾ in	Steel	Zinc Plated	7424SD1-PWR	**46U130**	50
7 in	3½"	4 ¼ in	304 SS	Plain	WW-1270	**2G568**	25
	5¼"	4 ¼ in	Steel	Zinc Plated	7426SD1-PWR	**46U131**	25
⅝ in Anchor Dia.							
3 ½ in	1¾"	⅛ in	304 SS	Plain	WW-5834	**15X124**	10
	1½"	⅛ in	Steel	Zinc Plated	7430SD1-PWR	**46U134**	25
4 ¼ in	2½"	⅞ in	304 SS	Plain	WW-5842	**15X125**	10
4 ½ in	2½"	1 ⅛ in	Steel	Zinc Plated	7432SD1-PWR	**46U135**	25
5 in	3¼"	1 ⅝ in	304 SS	Plain	WW-5850	**2G550**	10
	3¼"	1 ⅝ in	316 SS	Plain	SWW-5850	**15X094**	10
	3"	1 ⅝ in	Steel	Zinc Plated	7433SD1-PWR	**46U136**	25
6 in	4¼"	2 ⅝ in	304 SS	Plain	WW-5860	**2G552**	10
	4"	2 ⅝ in	Steel	Zinc Plated	7434SD1-PWR	**46U137**	25
7 in	3½"	3 ⅝ in	304 SS	Plain	WW-5870	**15X126**	10
	3½"	3 ⅝ in	316 SS	Plain	SWW-5870	**15X095**	10
	5"	3 ⅝ in	Medium Carbon Steel	Zinc Plated	7436SD1-PWR	**46U138**	25
8 ½ in	3½"	5 ⅛ in	304 SS	Plain	WW-5884	**15X127**	10
	6½"	5 ⅛ in	Medium Carbon Steel	Zinc Plated	7438SD1-PWR	**46U139**	25
¾ in Anchor Dia.							
4 ¾ in	2⅞"	¾ in	304 SS	Plain	WW-3446	**15X119**	10
4 ¼ in	1¾"	⅛ in	Medium Carbon Steel	Zinc Plated	7440SD1-PWR	**46U141**	20
4 ¾ in	2¼"	⅝ in	Medium Carbon Steel	Zinc Plated	7441SD1-PWR	**46U142**	20
5 ½ in	3⅝"	1 ½ in	304 SS	Plain	WW-3454	**15X120**	10
	3"	1 ⅜ in	Steel	Zinc Plated	7442SD1-PWR	**46U143**	20
6 ¼ in	4⅜"	2 ¼ in	304 SS	Plain	WW-3462	**15X121**	10
	3¾"	2 ⅛ in	Steel	Zinc Plated	7444SD1-PWR	**46U144**	20
7 in	3½"	3 in	304 SS	Plain	WW-3470	**15X122**	10
	4½"	2 ⅞ in	Medium Carbon Steel	Zinc Plated	7446SD1-PWR	**46U145**	20
8 ½ in	3½"	4 ½ in	304 SS	Plain	WW-3484	**15X123**	10
	6"	4 ⅜ in	Steel	Zinc Plated	7448SD1-PWR	**46U146**	10
10 in	7½"	5 ⅞ in	Steel	Zinc Plated	7449SD1-PWR	**46U147**	10
12 in	9½"	7 ⅞ in	Medium Carbon Steel	Zinc Plated	7451SD1-PWR	**46U149**	10
⅞ in Anchor Dia.							
6 in	3½"	1 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.0600	**31JP39**	2
	2¾"	1 ⅝ in	Medium Carbon Steel	Zinc Plated	7450SD1-PWR	**46U148**	10
8 in	3⅛"	3 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.0800	**31JP40**	2
10 in	3⅞"	3 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.1000	**31JP41**	2
1 in Anchor Dia.							
6 in	2½"	½ in	304 SS	Plain	WW-10060	**15X116**	5
	2⅛"	1 in	Not Graded Steel	Zinc Plated	U70411.100.0600	**31JP42**	1
	2⅜"	½ in	Steel	Zinc Plated	7461SD1-PWR	**46U152**	10
9 in	2½"	3 ½ in	304 SS	Plain	WW-10090	**15X117**	5
	3⅛"	4 in	Not Graded Steel	Zinc Plated	U70411.100.0900	**31JP43**	1
	5⅜"	3 ½ in	Medium Carbon Steel	Zinc Plated	7463SD1-PWR	**46U153**	10
1 ¼ in Anchor Dia.							
9 in	4¾"	2 ⅜ in	Medium Carbon Steel	Zinc Plated	7473SD1-PWR	**46U155**	5
1 in Anchor Dia.							
12 in	3⅛"	4 in	Not Graded Steel	Zinc Plated	U70411.100.1200	**31JP44**	1
	8⅜"	6 ½ in	Medium Carbon Steel	Zinc Plated	7465SD1-PWR	**46U154**	5
1 ¼ in Anchor Dia.							
12 in	7¾"	5 ⅜ in	Steel	Zinc Plated	7475SD1-PWR	**46U156**	5

Wedge And Epoxy Style Anchors

MKT

- Zinc-plated steel
- Internally threaded
- Sold each



Wedge Style Drop-in Anchor

Wedge-Style Drop-In—With more holding capacity than standard drop-in anchors, wedge-style anchors can be used in a bottomless hole. There are no protruding studs to mar surfaces when removing or replacing. Require no special setting tools. Excellent for pipe work, equipment brackets, and handrails.

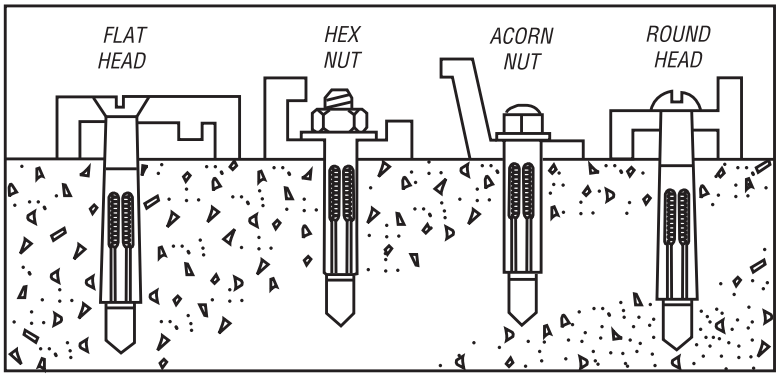


Epoxy Grip Anchor

Epoxy Grip—Set in-place with adhesives for stress-free anchoring that remains stress-free until force is applied to the bolt. Use in strength design applications, or where close edge distance is required, such as when installing handrails in concrete ramps, etc.

Note: Load values as listed are derived by using MKT VMZ adhesive only.

Thread Size	Anchor Dia.	Anchor Length	Ultimate Tension in 4000 psi Concrete (lb.)	Item No.
Wedge Anchor				
⅜"-16	½"	2¾"	7559	**21DA99**
½"-13	⅝"	3¼"	9719	**21DC01**
⅝"-11	⅞"	4"	16804	**21DC02**
¾"-10	1"	4⅝"	21607	**21DC03**
1"-8	1¼"	5¼"	28921	**21DC04**
Epoxy Grip Anchor				
¼-20	⅜"	1⅝"	3344	**21DC05**
5⁄16-18	½"	2⅜"	7424	**21DC06**
⅜-16	9⁄16"	2¾"	9255	**21DC07**
½-13	¾"	3½"	15215	**21DC08**
⅝-11	1"	5⅞"	32334	**21DC09**
¾-10	1"	6⅛"	30100	**21DC10**



MKT RED HEAD CONCRETE ANCHORING SYSTEMS DEWALT ENGINEERED BY Powers FABORY

Sleeve Anchors

Filler sleeve eliminates galling between sleeve and tapered bolt head. For concrete, hollow or shallow masonry, or grout-filled blocks. Include nut and washer. Red Head Meet U.S. Government A-A-1922A standard.

Anchor Dia.	Anchor Length	Min. Embedment	Max. Work Thickness	In 4000 psi Concrete Ultimate Shear (lb.)	In 4000 psi Concrete Ultimate Tension (lb.)	Anchor Material	Brand	Item No.	Pkg. Qty.
Round Head Slotted									
¼ in	1 ¼ in	1 in	¼ in	920	1400	Steel	MKT Fastening	**30PK60**	50
	2 in	1 in	1 in	920	1400	Steel	MKT Fastening	**30PK61**	50
⅜ in	2 ½ in	1 ¼ in	1 ½ in	2020	2960	Steel	MKT Fastening	**30PK62**	25
Hex Nut									
5⁄16 in	1 ½ in	1 ¼ in	¼ in	2400	2600	Steel	Red Head	**3A472**	100
		1 ⅛ in	⅛ in	1600	1900	Steel	MKT Fastening	**30PK38**	50
		1 ⅛ in	⅛ in	1600	1900	SS	MKT Fastening	**30PK65**	10
	2 ½ in	1 ⅛ in	1 ⅜ in	1600	1900	Steel	MKT Fastening	**30PK39**	50
		1 ⅛ in	1 ⅜ in	1600	1900	SS	MKT Fastening	**30PK66**	10
⅜ in	1 ⅞ in	1 ½ in	⅜ in	3040	3100	SS	Red Head	**2G534**	50
		1 ½ in	⅜ in	3040	3100	Steel	Red Head	**3A474**	50
		1 ¼ in	⅝ in	2020	2960	Steel	MKT Fastening	**30PK40**	25
		1 ¼ in	⅝ in	2020	2960	SS	MKT Fastening	**30PK67**	5
	3 in	1 ½ in	1 ½ in	3040	3100	Steel	Red Head	**3A475**	50
		1 ¼ in	1 ¾ in	2020	2960	Steel	MKT Fastening	**30PK41**	25
		1 ¼ in	1 ¾ in	2020	2960	SS	MKT Fastening	**30PK68**	5
½ in	2 ¼ in	1 ⅞ in	⅜ in	5000	4400	Steel	Red Head	**3A476**	25
		1 ½ in	¾ in	5760	4860	Steel	MKT Fastening	**30PK42**	10
		1 ½ in	¾ in	5760	4860	SS	MKT Fastening	**30PK69**	5
	3 in	1 ⅞ in	1 ⅛ in	5000	4400	Steel	Red Head	**3A477**	25
		1 ½ in	1 ½ in	5760	4860	Steel	MKT Fastening	**30PK43**	10
		1 ½ in	—	—	—	SS	Dewalt Engineered By Powers	**30RZ75**	25
	4 in	1 ⅞ in	2 ⅛ in	5000	4400	Steel	Red Head	**3A478**	25
		1 ½ in	2 ½ in	5760	4860	Steel	MKT Fastening	**30PK44**	10
		1 ½ in	2 ½ in	5760	4860	SS	MKT Fastening	**30PK70**	5
		1 ⅞ in	—	—	4400	SS	Fabory	**31KL90**	10
	6 in	1 ½ in	4 ½ in	5760	4860	Steel	MKT Fastening	**30PK45**	5
⅝ in	3 in	2 in	1 in	8080	6120	Steel	Red Head	**3A480**	25
		2 in	1 in	7880	5970	Steel	MKT Fastening	**30PK47**	5
	4 ¼ in	2 in	2 ¼ in	8080	6120	Steel	Red Head	**3A481**	10
		2 in	2 ¼ in	7880	5970	Steel	MKT Fastening	**30PK48**	5
	6 in	2 in	4 in	7880	5970	Steel	MKT Fastening	**30PK49**	5
¾ in	2 ½ in	2 in	½ in	11620	8780	Steel	MKT Fastening	**30PK50**	5
		2 in	½ in	11620	8780	SS	MKT Fastening	**30PK72**	5
	4 ¼ in	2 in	2 ¼ in	11620	8780	Steel	MKT Fastening	**30PK51**	5
	6 ¼ in	2 in	4 ¼ in	11620	8780	Steel	MKT Fastening	**30PK52**	5
Flat Head Slotted									
¼ in	1 ½ in	1 in	½ in	920	1400	Steel	MKT Fastening	**30PK53**	50
	2 in	1 in	1 in	920	1400	Steel	MKT Fastening	**30PK54**	50
	3 in	1 in	2 in	920	1400	Steel	MKT Fastening	**30PK55**	50
⅜ in	4 in	1 ¼ in	2 ¾ in	2020	2960	SS	MKT Fastening	**30PK74**	5
Flat Head Phillips									
⅜ in	2 ¾ in	1 ¼ in	1 ½ in	2020	2960	Steel	MKT Fastening	**30PK56**	25
	4 in	1 ½ in	2 ½ in	3040	3100	Steel	Red Head	**3A489**	50
		1 ¼ in	2 ¾ in	2020	2960	Steel	MKT Fastening	**30PK57**	25
	5 in	1 ½ in	3 ½ in	3040	3100	Steel	Red Head	**3A490**	50
		1 ¼ in	3 ¾ in	2020	2960	Steel	MKT Fastening	**30PK58**	10
	6 in	1 ¼ in	4 ¾ in	2020	2960	Steel	MKT Fastening	**30PK59**	10
Acorn Nut									
¼ in	⅝ in	—	1⁄16 in	—	—	Steel	MKT Fastening	**30PK35**	100
	1 ⅜ in	1 in	⅜ in	920	1400	Steel	MKT Fastening	**30PK36**	50
		1 in	⅜ in	920	1400	SS	MKT Fastening	**30PK63**	10
	2 ¼ in	1 in	1 ¼ in	920	1400	Steel	MKT Fastening	**30PK37**	50
		1 in	1 ¼ in	920	1400	SS	MKT Fastening	**30PK64**	10


Anchor

GA GRAINGER APPROVED MKT

Taper Bolt® Expansion Anchors with Nuts

Removable, reusable bolts include a finished, low-profile hex head. High tensile strength allows users to substitute smaller bolts, for reduced cost. Uniform expansion provides greater strength and holding power.


Expansion Nut

Screw Size	Item No.	Pkg. Qty.
Expansion Nuts, GA		
⅜"	**4KHY8**	100
½"	**4KHY9**	50
¾"	**4KHZ2**	50
1"	**4KHZ3**	10

Anchor Dia.	Length	In 3000 psi Concrete Ultimate Tension (lb.)	In 3000 psi Concrete Ultimate Shear (lb.)	Min. Embedment	Brand	Item No.	Pkg. Qty.
Taper Bolts w/Expansion Nuts							
⅜"	2¼"	4030	7177	1⅞"	MKT Fastening	**4KHW9**	50
⅜"	3"	4030	7177	1⅞"	MKT Fastening	**4KHX2**	50
⅜"	4"	4030	7177	1⅞"	MKT Fastening	**4KHX3**	50
½"	2⅞"	8165	12,177	2⅜"	MKT Fastening	**4KHX4**	25
½"	4"	8165	12,177	2⅜"	MKT Fastening	**4KHX5**	25
½"	5"	8165	12,177	2⅜"	MKT Fastening	**4KHX6**	20
⅝"	3½"	9990	17,030	2⅞"	MKT Fastening	**4KHX7**	20
⅝"	4½"	9990	17,030	2⅞"	MKT Fastening	**4KHX8**	25
¾"	4⅛"	11,906	27,916	3⅜"	MKT Fastening	**4KHY2**	20
¾"	5½"	11,906	27,916	3⅜"	MKT Fastening	**4KHY3**	20
¾"	7"	11,906	27,916	3⅜"	MKT Fastening	**4KHY4**	15
¾"	8"	11,906	27,916	3⅜"	MKT Fastening	**4KHY5**	15
1"	7¼"	28,263	36,257	4⅝"	MKT Fastening	**4KHY7**	10



Toggle Bolt Anchors With Pull Ring

- Grip range ⅜ to 3⅝"

Thread Size	Drill Bit Size	UOM Qty 10 Item No.	UOM Qty 100 Item No.
Plastic Straps with Zinc Plated Steel Channel			
#10-24	½"	**40P467**	**40P468**
¼-20	½"	**40P469**	**40P470**
5⁄16-18	¾"	**40P471**	**40P472**
⅜-16	¾"	**40P473**	**40P474**
½-13	¾"	**40P475**	**40P476**
Plastic Straps with Stainless Steel Channel			
⅜-16	¾"	**40P477**	—
½-13	¾"	—	**40P480**

GRAINGER MOBILE



Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> To download the app, visit **grainger.com/content/mobile-features**



Drop-In Anchor, Flanged



Drop-In Anchor, Non-Flanged

RED HEAD CONCRETE ANCHORING SYSTEMS

DEWALT ENGINEERED BY Powers | MKT

Drop-In Anchors, Tools, and Kits

- Drop-in anchor setting tool must be purchased separately (see table)

For use in pipe hanging, mounting valve and pipe, machinery mounting, anchoring shelf, and insulation applications, in concrete materials or solid concrete base materials.

Note: For load capacities in structural lightweight aggregate concrete, refer to ICBO Report No. 1372. Safe working loads for single installations under static loading should not exceed 25% of the ultimate load conditions.

Description	Item No.
Dewalt Engineered By Powers	
DI+™ Stop Drill Bit	
Smart Bit for ½", Bit Dia. ⅝"	**46U172**
Smart Bit for ¼", Bit Dia. ⅜"	**46U170**
Smart Bit for ⅜", Bit Dia. ½"	**46U171**
DI+™ System Setting Tool	
Use With Rod/Anchor Size ½", Pin length 1 3⁄16"	**46U169**
Use With Rod/Anchor Size ¼", Pin length 39⁄64"	**46U167**
Use With Rod/Anchor Size ⅜", Pin length 61⁄64"	**46U168**
Red Head	
Depth Charge™ Stop Drill Bits	
½" Bit Hammer Drill	**4CGZ8**
⅝" Bit Hammer Drill	**4CGZ9**

Drop-In Anchor Type	Anchor Material	Thread Depth	Min. Hole Depth	Drill Bit Size	Ultimate Tension in 4000 psi Concrete (lb.)	Ultimate Shear in 4000 psi Concrete (lb.)	Brand	DROP-IN ANCHOR Item No.	DROP-IN ANCHOR Pkg. Qty.	ANCHOR SETTING TOOL Item No.	ANCHOR SETTING TOOL Pkg. Qty.
¼"-20 Thread Size											
Flange	Steel	⅜"	1"	⅜"	2360	1080	Red Head	**3A492**	100	**3A497**	1
Non-Flange	Stainless Steel	⅜"	1"	⅜"	2360	1080	Red Head	**2G476**	100	**3A497**	1
		15⁄32"	1"	⅜"	2104	1321	Sup-R-Drop	**4KJA3**	25	**4XMF2**	1
		⅜"	1"	⅜"	2104	1321	MKT Fastening	**30PK20**	10	—	—
		⅜"	1"	⅜"	2104	1321	MKT Fastening	**30PK25**	5	—	—
	Steel	⅜"	1"	⅜"	2360	1080	Red Head	**2G474**	100	**3A497**	1
		7⁄16"	1"	⅜"	1565	2550	Dewalt Engineered By Powers	**46U157**	100	**46U162**	1
		⅜"	1"	⅜"	2104	1321	MKT Fastening	**30PK15**	20	—	—
⅜"-16 Thread Size											
Flange	Steel	½"	1⅝"	½"	3800	3160	Red Head	**3A493**	50	**3A498**	1
		⅜"	¾"	½"	3800	3160	Red Head	**5HE65**	100	**2WLH1**	1
		½"	1 3⁄16"	½"	4824	3714	MKT Fastening	**30PK32**	25	—	—
		⅜"	¾"	½"	—	3714	MKT Fastening	**30PK34**	20	—	—
Non-Flange	Stainless Steel	½"	1⅝"	½"	3800	3160	Red Head	**2G492**	50	**3A498**	1
		23⁄32"	1 3⁄16"	½"	4824	3714	Sup-R-Drop	**4KJA4**	25	**4XMF3**	1
		½"	1 3⁄16"	½"	4824	3714	MKT Fastening	**30PK21**	10	—	—
		½"	1 3⁄16"	½"	4824	3714	MKT Fastening	**30PK26**	5	—	—
	Steel	½"	1⅝"	½"	3800	3160	Red Head	**2G488**	50	**3A498**	1
		⅝"	1 3⁄16"	½"	2850	4755	Dewalt Engineered By Powers	**46U158**	50	**46U163**	1
		½"	1 3⁄16"	½"	4824	3714	MKT Fastening	**30PK16**	25	—	—
½"-6 Thread Size											
Coil Non-Flange	Steel	¾"	2"	⅝"	7398	5854	MKT Fastening	**30PK30**	25	—	—
½"-13 Thread Size											
Flange	Steel	½"	1"	⅝"	3270	2673	Red Head	**2KTE5**	50	**2KTE6**	1
		¾"	2"	⅝"	5840	4580	Red Head	**3A494**	50	**4CB94**	1
		¾"	2"	⅝"	7398	5854	MKT Fastening	**30PK33**	25	—	—
Non-Flange	Stainless Steel	¾"	2"	⅝"	5840	4580	Red Head	**2G490**	50	**4CB94**	1
		1"	2"	⅝"	7398	5854	Sup-R-Drop	**4KJA5**	25	**4XMF4**	1
		¾"	2"	⅝"	7398	5854	MKT Fastening	**30PK22**	5	—	—
		¾"	2"	⅝"	7398	5854	MKT Fastening	**30PK27**	5	—	—
	Steel	¾"	2"	⅝"	5480	4580	Red Head	**2G486**	50	**4CB94**	1
		13⁄16"	2"	⅝"	4190	7505	Dewalt Engineered By Powers	**46U159**	50	**46U164**	1
		¾"	2"	⅝"	7398	5854	MKT Fastening	**30PK17**	25	—	—
⅝"-11 Thread Size											
Flange	Steel	1"	2½"	⅞"	8640	7440	Red Head	**3A495**	25	**4CB96**	1
Non-Flange	Stainless Steel	1"	2½"	⅞"	8640	7440	Red Head	**2G484**	25	**4CB96**	1
		1"	2½"	⅞"	7966	8754	Sup-R-Drop	**4KJA6**	25	**4XMF5**	1
		1"	2½"	⅞"	7966	8754	MKT Fastening	**30PK23**	5	—	—
		1"	2½"	⅞"	7966	8754	MKT Fastening	**30PK28**	5	—	—
	Steel	1 3⁄16"	2½"	⅞"	7440	—	Dewalt Engineered By Powers	**30RZ47**	25	**46U165**	1
		1"	2½"	⅞"	8640	7440	Red Head	**2G480**	25	**4CB96**	1
		1"	2½"	⅞"	7966	8754	MKT Fastening	**30PK18**	10	—	—
¾"-4-1/2 Thread Size											
Coil Non-Flange	Steel	1½"	3 3⁄16"	1"	16,019	11627	MKT Fastening	**30PK31**	5	—	—
¾"-10 Thread Size											
Flange	Steel	1¼"	3 3⁄16"	1"	9480	10,480	Red Head	**3A496**	25	**4CB95**	1
Non-Flange	Stainless Steel	1¼"	3 3⁄16"	1"	9480	10,480	Red Head	**2G482**	25	**4CB95**	1
		1½"	3 3⁄16"	1"	16019	11627	MKT Fastening	**30PK24**	5	**4XMF6**	1
		1½"	3 3⁄16"	1"	16019	11627	MKT Fastening	**30PK29**	5	**4XMF6**	1
		1⅜"	3 3⁄16"	1"	9405	—	Dewalt Engineered By Powers	**30RZ48**	10	—	—
	Steel	1¼"	3 3⁄16"	1"	9480	10,480	Red Head	**2G478**	25	**4CB95**	1
		1½"	3 3⁄16"	1"	16019	11627	MKT Fastening	**30PK19**	5	—	—



Tapper® Stainless Steel Permaseal Coating Finish - Hex Head



Tapper+® Steel Permaseal Coating Finish - Flat Philips Head



Wedge-Bolt® +



Screw-Bolt+™ Steel Zinc Plated Finish - Hex Head

DEWALT ENGINEERED BY Powers

Anchor Screws and Bolts

Anchor Dia.	Length	Head Style	Item No.	Pkg. Qty.
Concrete Screw				
Tapper® Stainless Steel Permaseal Coating Finish				
¼ in	1 ¼ in	Hex Washer	**30TE04**	100
	1 ¾ in	Hex Washer	**30TE05**	100
	1 ¼ in	Flat Phillips	**30TE11**	100
	1 ¾ in	Flat Phillips	**30TE12**	100
	2 ¼ in	Hex Washer	**30TE06**	100
	2 ¾ in	Hex Washer	**30TE07**	100
	2 ¼ in	Flat Phillips	**30TE13**	100
	2 ¾ in	Flat Phillips	**30TE14**	100
	3 ¼ in	Hex Washer	**30TE08**	100
	3 ¾ in	Hex Washer	**30TE09**	100
	3 ¼ in	Flat Phillips	**30TE15**	100
	4 in	Hex Washer	**30TE10**	100
Tapper+® Steel Permaseal Coating Finish				
3⁄16 in	1 ¼ in	Hex Washer	**30TD79**	100
	1 ¾ in	Hex Washer	**30TD80**	100
	1 ¼ in	Flat Phillips	**30TD91**	100
	1 ¾ in	Flat Phillips	**30TD92**	100
	2 ¼ in	Hex Washer	**30TD81**	100
	2 ¾ in	Hex Washer	**30TD82**	100
	2 ¼ in	Flat Phillips	**30TD93**	100
	2 ¾ in	Flat Phillips	**30TD94**	100
	3 ¼ in	Hex Washer	**30TD83**	100
	3 ¼ in	Flat Phillips	**30TD95**	100
¼ in	1 ¼ in	Hex Washer	**30TD84**	100
	1 ¾ in	Hex Washer	**30TD85**	100
	1 ¼ in	Flat Phillips	**30TD96**	100
	1 ¾ in	Flat Phillips	**30TD97**	100
	2 ¼ in	Hex Washer	**30TD86**	100
	2 ¾ in	Hex Washer	**30TD87**	100
	2 ¼ in	Flat Phillips	**30TD98**	100
	2 ¾ in	Flat Phillips	**30TD99**	100
	3 ¼ in	Hex Washer	**30TD88**	100
	3 ¾ in	Hex Washer	**30TD89**	100
	3 ¼ in	Flat Phillips	**30TE01**	100
	3 ¾ in	Flat Phillips	**30TE02**	100
	4 in	Hex Washer	**30TD90**	100
	4 in	Flat Phillips	**30TE03**	100
Screw Anchor				
Screw-Bolt+™ Steel Galvanized Finish				
⅝ in	8 in	Hex Washer	**411D74**	25
¾ in	8 in	Hex Washer	**411D76**	10
Screw-Bolt+™ Steel Zinc Plated Finish				
¼ in	3 in	Hex Washer	**411D39**	100
⅜ in	4 in	Hex Washer	**411D43**	50
½ in	4 in	Hex Washer	**411D49**	50
	5 in	Hex Washer	**411D50**	25
	6 in	Hex Washer	**411D51**	25
	8 in	Hex Washer	**411D52**	25
	8 in	Hex Washer	**411D52**	25
⅝ in	4 in	Hex Washer	**411D54**	25
	5 in	Hex Washer	**411D55**	25
	6 in	Hex Washer	**411D56**	25
	8 in	Hex Washer	**411D57**	25
¾ in	8 in	Hex Washer	**411D62**	10
	10 in	Hex Washer	**411D63**	10

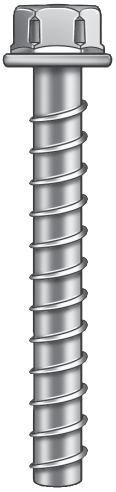
Screw Anchors

FABORY DEWALT ENGINEERED BY Powers

- Steel
- Drill bit size = anchor dia.
- Hex washer head

High-strength heavy-duty anchors are for use in both cracked and uncracked concrete. Easily installed with standard-size drill bits; removable, for temporary anchoring. Vibration- and shock-resistant. For use in fastening conveyors, pallet racking, racking guards, motors, bracing, piping, ladders, fencing, beams, angles, or dimensional lumber to concrete or masonry.

Anchor Dia.	Length	Min. Embedment	Max. Work Thickness	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)	Item No.	Pkg. Qty.
Fabory							
¼"	1¾"	1 3/16"	¾"	1025	2680	**4XFX4**	100
	2¼"	1 3/16"	½"	1025	2680	**4XFX5**	50
	3"	1 3/16"	1¼"	1025	2680	**4XFX6**	50
⅜"	1¾"	2"	¼"	4248	8240	**4XFX7**	50
	2½"	2"	1"	4248	8240	**4XFX8**	50
	3"	2"	⅝"	4248	8240	**2MCP2**	50
	4"	2"	1⅝"	4248	8240	**2MCP3**	50
½"	3"	2"	¾"	4758	9070	**2MCP5**	25
	6"	2"	3¾"	4758	9070	**2MCP8**	20
⅝"	4"	2"	—	4689	12,147	**32H808**	10
	5"	2"	—	4689	12147	**32H809**	10
	6"	2"	—	4689	12147	**32H810**	10
¾"	4½"	2½"	2"	7042	14145	**2MCR4**	10
Dewalt Engineered By Powers							
¼"	1¼"	1"	¼"	1400	1755	**411D35**	100
	1¾"	1"	¾"	1400	1755	**411D36**	100
	2¼"	1"	1¼"	2955	1755	**411D37**	100
	2⅝"	1"	1⅝"	2955	1755	**411D38**	100
	3"	1"	2"	3855	2140	**411D39**	100
⅜"	1¾"	1½"	¼"	2880	3890	**411D40**	50
	2½"	1½"	1"	4020	4735	**411D41**	50
	3"	1½"	1½"	4020	4735	**411D42**	50
	3"	1½"	1½"	4020	4735	**411D64**	50
	4"	1½"	2½"	8130	6930	**411D43**	50
	4"	1½"	2½"	8130	6930	**411D65**	50
	5"	1½"	3½"	11,945	6930	**411D44**	50
	5"	1½"	3½"	11,945	6930	**411D66**	50
	6"	1½"	4½"	11,945	6930	**411D45**	50
	6"	1½"	4½"	11,945	6930	**411D67**	50
½"	2"	1¾"	¼"	3115	6555	**411D46**	50
	2½"	1¾"	¾"	3115	6555	**411D47**	50
	3"	1¾"	1¼"	7320	8800	**411D48**	50
	4"	1¾"	2¼"	7320	8800	**411D49**	50
	4"	1¾"	2¼"	7320	8800	**411D68**	50
	5"	1¾"	3¼"	14,525	10,290	**411D50**	25
	5"	1¾"	3¼"	14,525	10,290	**411D69**	25
	6"	1¾"	4¼"	17,235	10,290	**411D51**	25
	6"	1¾"	4¼"	17,235	10,290	**411D70**	25
	8"	1¾"	6¼"	17,235	10,290	**411D52**	25
	8"	1¾"	6¼"	17,235	10,290	**411D71**	25
⅝"	3"	2½"	½"	6285	11,630	**411D53**	25
	4"	2½"	1½"	10,685	13,220	**411D54**	25
	5"	2½"	2½"	10,685	13,220	**411D55**	25
	5"	2½"	2½"	10,685	13,220	**411D72**	25
	6"	2½"	3½"	15,830	14,980	**411D56**	25
	6"	2½"	3½"	15,830	14,980	**411D73**	25
	8"	2½"	5½"	22,475	14,980	**411D57**	25
	8"	2½"	5½"	22,475	14,980	**411D74**	25
¾"	3"	2½"	½"	6610	12,725	**411D58**	20
	4"	2½"	1½"	6610	12,725	**411D59**	20
	5"	2½"	2½"	13,035	18,685	**411D60**	20
	6"	2½"	3½"	20,835	18,685	**411D61**	20
	6"	2½"	3½"	20,835	18,685	**411D75**	20
	8"	2½"	5½"	22,450	18,685	**411D62**	10
	8"	2½"	5½"	22,450	18,685	**411D76**	10
	10"	2½"	7½"	22,450	18,685	**411D63**	10



Anchor Bolts

- Tensile strength: 60,000 psi

Include nut and washer. Meet ASTM A307 standard.

Anchor Thread Size	Overall Length	Plain Anchor Length	Plain Item No.	Plain Pkg. Qty.	Hot Dipped Galvanized Anchor Length	Hot Dipped Galvanized Item No.	Hot Dipped Galvanized Pkg. Qty.
⅜"-16	6"	6"	**11K382**	25	6"	**21Y486**	50
	8"	8"	**11K383**	25	8"	**21Y487**	50
½"-13	6"	6"	**11K384**	25	6"	**21Y488**	50
	8"	8"	**11K385**	25	8"	**21Y463**	50
	8"	8"	**21Y445**	50	—	—	—
	10"	10"	**11M966**	25	10"	**21Y464**	50
	12"	12"	**11M967**	25	12"	**21Y465**	50
	14"	14"	**21Y448**	50	14"	**21Y466**	50
	16"	—	—	—	16"	**21Y467**	50
	18"	18"	**21Y450**	50	18"	**21Y468**	50
⅝"-11	8"	—	—	—	8"	**21Y469**	25
	10"	10"	**21Y451**	25	10"	**21Y470**	25
	12"	12"	**21Y452**	25	12"	**21Y471**	25
	18"	18"	**21Y453**	25	18"	**21Y473**	25
¾"-10	8"	8"	**21Y454**	20	—	—	—
	12"	12"	**21Y455**	20	12"	**21Y474**	20
	15"	—	—	—	15"	**21Y475**	20
	16"	16"	**21Y456**	20	16"	**21Y476**	20
	18"	18"	**21Y457**	20	18"	**21Y477**	20
	24"	24"	**21Y458**	20	24"	**21Y478**	20
1"-8	12"	—	—	—	12"	**21Y481**	10
	18"	18"	**21Y460**	10	18"	**21Y483**	10
	24"	—	—	—	24"	**21Y484**	10
	30"	30"	**21Y462**	10	—	—	—
	36"	—	—	—	36"	**21Y485**	10



RED HEAD CONCRETE ANCHORING SYSTEMS

Large-Diameter Tapcon® Self-Threading Anchors

- Grade 5 zinc-plated, hardened steel

Removable structural screw anchors are for high-load capacity applications. Use in concrete and masonry and in dry, noncorrosive environments. Install with standard masonry drill bits.

Anchor Dia.	Length	Min. Embedment	Max. Work Thickness	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)	Item No.	Pkg. Qty.
Hex Washer							
⅜"	1¾"	1½"	¼"	1900	3400	**4BU93**	50
	2½"	1½"	½"	2552	3420	**4BU94**	50
	3"	1½"	1½"	3312	3424	**4BU95**	50
	4"	1½"	2½"	7852	3459	**4BU96**	50
	5"	1½"	3½"	8500	3500	**4BU97**	40
½"	3"	2"	½"	5644	7380	**4BU98**	25
	4"	2"	1½"	8836	8140	**4BU99**	25
	5"	2"	2½"	10,488	8550	**4BY10**	25
	6"	2"	4"	12,000	9000	**4BY11**	20
⅝"	3"	2¾"	¼"	7845	13,475	**4BY12**	10
	4"	2¾"	1¼"	11,722	14,059	**4BY13**	10
	5"	2¾"	2¼"	16,891	14,839	**4BY14**	10
	6"	2¾"	3¼"	18,500	14,600	**4BY15**	10
¾"	4½"	3¼"	1¼"	12,636	14,314	**4BY16**	10
	5½"	3¼"	2¼"	18,541	20,612	**4BY17**	10
	6¼"	3¼"	3"	23,266	25,560	**4BY18**	10



Hex Washer Head

FABORY
GA GRAINGER APPROVED
RED HEAD CONCRETE ANCHORING SYSTEMS

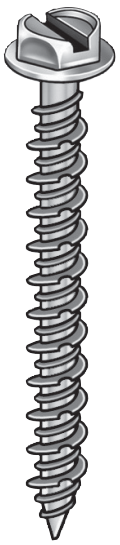
Masonry Anchors

- For wood-to-concrete applications

Easy-to-install anchors can be quickly removed. Notched high-low threads cut into masonry for greater stability and pull-out values.

Tapered shank provides a wedging action for a strong, reliable hold. Accommodate close-to-edge applications. Superior pull-out and shear strengths.

Note: Not recommended for use with aluminum when moisture may be present.



Hex Washer Head



Flat, Phillips Head

Anchor Dia.	Length	HEX WASHER HEAD Item No.	FLAT, PHILLIPS HEAD Item No.
FABORY, 410 Stainless Steel, Sliver Ruspert			
¼"	1¼"	**4XFY1**	**4XFY8**
	1¾"	**4XFY2**	**4XFY9**
	2¼"	**4XFY3**	**4XFZ1**
	2¾"	**4XFY4**	**4XFZ2**
	3¼"	**4XFY5**	**4XFZ3**
	3¾"	**4XFY6**	**4XFZ4**
	4"	**4XFY7**	**4XFZ5**
GA, Low Carbon Steel, Zinc Yellow			
#8	1"	**15W113**	**15W118**
	1¼"	**15W114**	**15W119**
	1½"	**15W115**	**15W120**
¼"	¾"	**15W121**	**15W131**
	1"	**15W122**	**15W132**
	1¼"	**15W123**	**15W133**
	1½"	**15W124**	**15W134**
	2"	**15W125**	**15W135**
	2½"	**15W126**	**15W136**
	3"	**15W127**	**15W137**
	3½"	**15W128**	**15W138**
	4½"	**15W130**	**15W140**
Tapcon® Red Head, 410 Stainless Steel			
¼"	1¼"	**15X492**	**15X498**
	1¾"	**15X493**	**15X499**
	2¼"	**15X494**	**15X501**
	2¾"	**15X495**	**15X502**
	3¼"	**15X496**	—
	3¾"	**15X497**	**15X504**

Anchor Dia.	Length	HEX WASHER HEAD Item No.	FLAT, PHILLIPS HEAD Item No.
Tapcon® Red Head, Hardened Steel			
3/16"	1¾"	**4AK82**	**4AK94**
	2¼"	**4AK83**	**4AK95**
	2¾"	**4AK84**	**4AK96**
	3¼"	**4AK85**	**4AK97**
	1¼"	**4AK81**	**4AK93**
¼"	1¾"	**4AK87**	**4AK99**
	2¼"	**4AK88**	**4AL00**
	2¾"	**4AK89**	**4AL01**
	3¼"	**4AK90**	**4AL02**
	3¾"	**4AK91**	**4AL03**
	4"	**4AK92**	**4AL04**
	1¼"	**4AK86**	**4AK98**
Tapcon® Red Head, Low Carbon Steel			
¼"	6"	**15X486**	**15X490**
	4"	—	**15X489**



Concrete Deck Inserts

- Steel construction with zinc plated finish
- 8" length
- 12" flange width

Inserts have pre-mounted self-drilling screws and a lengthened "T" brace, to allow simple and easy installation in concrete-filled metal deck assemblies, in a variety of positions. A threaded bolt permits precise height adjustment and helps guarantee the minimum embedment depth. UL Listed. Meet ICC-ES, ESR-3958, IBC 2009, 2012, 2015, IRC 2009, 2012, 2015, FM standards.

Nominal Conduit/Pipe/ Threaded Rod	W	Flange Thickness	Hole Size	Item No.
⅜"	⅜"	3/16"	7/16" or ½"	**416K95**
½"	½"	3/16"	9/16" or ⅝"	**416K96**
¾"	¾"	⅜"	13/16" or ⅞"	**416K97**
⅞"	⅞"	⅜"	15/16" or 1"	**416K98**



Crimp-Drive



Split-Drive



Hammer Drive



Mushroom Head



Tie-Wirehead



Flat Head

SIMPSON Strong-Tie | DEWALT ENGINEERED BY Powers | MKT

Crimp, Hammer, and Split-Drive Anchors

Tamper-resistant light- to medium-duty anchors allow hammer-in installation and multiple head configurations. Install in concrete, grout-filled block, and stone. Duplex-head anchors are for temporary fastening and can be removed using a claw hammer. Sup-R-Coat electroplate and galvanized finishes are for use in corrosive environments, or with ACQ lumber.

Crimp Drive—Preformed curvature along shaft expands to secure anchor. Installs with a standard hammer into concrete and grout-filled block.

Sup-R-Split® Hammer Drive—High-strength, heat-treated 1-pc. steel anchors are hammer-drive, friction-set; can be used for attaching wood or forming to solid concrete.

Note: Not approved for use in seismic applications.

Split-Drive—Install in concrete, grout-filled block, and stone. Duplex-head anchors are designed for temporary fastening and can be removed by using a claw hammer.

Anchor Dia.	Anchor Length	Min. Embedment	Anchor Head Style	Item No.	Pkg. Qty.
Crimp Drive Anchor, Strong-Tie					
	1 ¼ in	⅞ in	Mushroom	**4XFZ6**	100
3/16 in	1 ¼ in	1 ¼ in	Rod Coupler	**4XGA8**	100
	2 in	1 ¼ in	Mushroom	**4XFZ7**	100
	1 ½ in	1 ¼ in	Mushroom	**4XGA1**	100
	1 ½ in	1 ½ in	Rod Coupler	**4XGA9**	50
	1 ¼ in	⅞ in	Mushroom	**4XFZ9**	100
	1 ⅛ in	1 ⅛ in	Tie-Wire	**4XGC1**	100
¼ in	1 in	⅞ in	Mushroom	**4XFZ8**	100
	2 ½ in	1 ¼ in	Mushroom	**4XGA3**	100
	2 in	1 ¼ in	Mushroom	**4XGA2**	100
	3 in	1 ¼ in	Mushroom	**4XGA4**	100
	3 in	1 ¼ in	Mushroom	**4XGA7**	100
⅜ in	2 in	1 ¾ in	Mushroom	**4XGA5**	25
	3 in	1 ¾ in	Mushroom	**4XGA6**	25
Hammer Drive Pin Anchor, Dewalt Engineered By Powers					
	1 ½ in	⅞ in	Flat	**453H31**	100
	1 ½ in	⅞ in	Mushroom	**453G83**	100
	1 ½ in	⅞ in	Mushroom	**453H12**	100
	1 ½ in	1 ¼ in	Flat	**453H23**	100
	1 ¼ in	⅞ in	Mushroom	**453H11**	100
	1 ⅛ in	1 ⅛ in	Tie-Wire	**453H22**	100
	1 in	⅞ in	Mushroom	**453G82**	100
	1 in	⅞ in	Mushroom	**453H10**	100
	2 ½ in	⅞ in	Flat	**453H33**	100
3/16 in	2 ½ in	⅞ in	Mushroom	**453G84**	100
	2 ½ in	⅞ in	Flat	**453H01**	100
	2 in	⅞ in	Flat	**453H32**	100
	2 in	⅞ in	Mushroom	**453H13**	100
	2 in	1 ¼ in	Flat	**453H24**	100
	3 ½ in	⅞ in	Mushroom	**453G86**	100
	3 in	⅞ in	Flat	**453H34**	100
	3 in	⅞ in	Mushroom	**453G85**	100
	3 in	⅞ in	Flat	**453H02**	100
	4 in	⅞ in	Mushroom	**453G87**	100
	4 in	⅞ in	Flat	**453H03**	100
	1 ½ in	1 in	Flat	**453H04**	100
	1 ½ in	1 in	Mushroom	**453H15**	100
	1 ¼ in	1 ⅛ in	Round	**453H26**	100
	1 ¼ in	1 in	Mushroom	**453H14**	100
	1 ¾ in	1 ⅛ in	Tie-Wire	**453H35**	500
	1 ¾ in	1 ⅛ in	Tie-Wire	**453H36**	100
	2 ½ in	1 in	Flat	**453H06**	100
¼ in	2 ½ in	1 in	Mushroom	**453H17**	100
	2 in	1 in	Flat	**453H05**	100
	2 in	1 in	Mushroom	**453H16**	100
	3 ½ in	1 in	Mushroom	**453G88**	100
	3 ½ in	1 in	Flat	**453H08**	100
	3 in	1 in	Flat	**453H07**	100
	3 in	1 in	Mushroom	**453H18**	100
	4 in	1 in	Mushroom	**453G89**	100
	4 in	1 in	Flat	**453H09**	100
	2 ½ in	1 ⅞ in	Round	**453H28**	25
	2 ½ in	1 ¾ in	Mushroom	**453G90**	25
	2 ½ in	1 ¾ in	Mushroom	**453H20**	25
	2 in	1 ⅞ in	Round	**453H27**	25
	2 in	1 ¾ in	Mushroom	**453H19**	25
⅜ in	3 ½ in	1 ⅞ in	Round	**453H29**	25
	3 ½ in	1 ¾ in	Mushroom	**453G91**	25
	3 in	1 ¾ in	Mushroom	**453H21**	25
	4 in	1 ¾ in	Mushroom	**453G92**	25
	5 in	1 ¾ in	Mushroom	**453G93**	25
	6 in	1 ¾ in	Mushroom	**453G94**	25
	2 ¾ in	2 ½ in	Mushroom	**453G95**	50
	3 ½ in	2 ½ in	Mushroom	**453G96**	50
½ in	3 in	2 5/8 in	Round	**453H30**	25
	4 in	2 ½ in	Mushroom	**453G97**	25
	5 in	2 ½ in	Mushroom	**453G98**	25
	6 ½ in	2 ½ in	Mushroom	**453G99**	25
Split-Drive Anchor, Strong-Tie					
	1 ½ in	1 ¼ in	Countersunk	**4XGC9**	100
	2 ½ in	1 ¼ in	Countersunk	**4XGD2**	100
	2 in	1 ¼ in	Countersunk	**4XGD1**	100
¼ in	3 ½ in	1 ¼ in	Countersunk	**4XGD4**	100
	3 in	1 ¼ in	Countersunk	**4XGD3**	100
	3 in	1 ¼ in	Duplex	**4XGD8**	100
	4 in	1 ¼ in	Countersunk	**4XGD5**	100
	4 in	1 ¼ in	Countersunk	**4XGD7**	100
Sup-R-Split® Hammer Drive Anchor, MKT Fastening					
	1 ½ in	1 ⅛ in	Flat	**4KJA8**	100
	2 ½ in	1 ⅛ in	Flat	**4KJC1**	100
	2 ¾ in	1 ⅛ in	Duplex	**4KJC5**	100
	2 in	1 ⅛ in	Flat	**4KJA9**	100
¼ in	3 ½ in	1 ⅛ in	Flat	**4KJC3**	100
	3 ½ in	1 ⅛ in	Flat	**4KJC7**	100
	3 in	1 ⅛ in	Flat	**4KJC2**	100
	3 in	1 ⅛ in	Flat	**4KJC6**	100
	4 in	1 ⅛ in	Flat	**4KJC4**	100



Standard, Steel



Standard, Zamac



Security Anchor, Carbon Steel

Hammer-Drive Anchors and Pins

Standard—Easy-to-install, tamperproof anchors can be used in concrete, block, brick, or stone. Include hex nut and washer.

Security Anchors—Set flush in recessed washer to help prevent tampering and removal.

Anchor Dia.	Anchor Length	Min. Embedment	Max. Fixture Thickness	Item No.	Pkg. Qty.
Standard, Zamac					
3/16"	⅞"	5/8"	¼"	**11K340**	100
	¾"	5/8"	3/16"	**11K341**	100
	1"	¾"	¼"	**11K342**	100
¼"	1¼"	¾"	½"	**11K343**	100
	1½"	¾"	¾"	**11K344**	100
	2"	¾"	1¼"	**11K345**	100
Standard, Steel					
¼"	1¾"	1⅛"	⅜"	**11K324**	50
	2⅜"	1⅛"	1"	**11K325**	50
5/16"	2"	1⅜"	3/16"	**11K326**	25
	2¾"	1⅜"	1"	**11K327**	25
⅜"	3½"	1½"	1"	**11K329**	25
	4¾"	1¾"	2⅜"	**11K330**	25
½"	2¾"	2"	¼"	**11K331**	10
	3½"	2¼"	¾"	**11K332**	10
⅝"	4"	2¾"	1⅜"	**11K335**	5
	6"	2¾"	2"	**11K336**	5
	5"	3½"	2"	**11K337**	4
¾"	6"	3½"	2"	**11K338**	4
	7½"	3½"	2"	**11K339**	4
Standard, Carbon Steel					
⅜"	2⅜"	1⅜"	⅝"	**11K328**	25
½"	4¾"	2¼"	2"	**11K333**	10
	6"	2¼"	3¼"	**11K334**	10
Security Anchors, Carbon Steel Body (Hardened Pin)					
¼"	1¾"	1"	½"	**15W081**	10
	2⅜"	1"	⅛"	**15W082**	10
5/16"	2¾"	1¼"	1¼"	**15W083**	10
	2⅜"	1½"	⅝"	**15W084**	10
⅜"	3½"	1½"	1¾"	**15W085**	5
	5"	1½"	3¼"	**15W086**	5
	2¾"	2"	¾"	**15W087**	5
½"	3½"	2"	1½"	**15W088**	5
	4¾"	2"	2¾"	**15W089**	5
	6"	2"	4"	**15W090**	2
⅝"	4"	2½"	1½"	**15W091**	2
	6"	2½"	3½"	**15W092**	2
¾"	5"	3"	2¼"	**15W093**	2
	6"	3"	3¼"	**15W094**	2



Steel Toggle Bolts

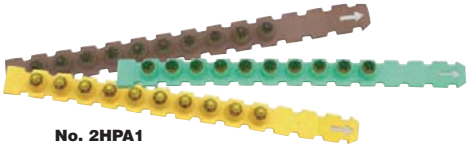
Spring-type wing with combo head screw is easy-to-install. Use for light-duty applications such as block, drywall, hollow walls, ceiling, and steel construction.

Thread Size	Drill Size	Wing Span	Pkg. Qty.	2" LENGTH Item No.	3" LENGTH Item No.	4" LENGTH Item No.	5" LENGTH Item No.	6" LENGTH Item No.
6-32	½"	1½"	50	**11K301**	**11K302**	**11K303**	—	—
10-24	9/16"	2"	50	**11K304**	**11K305**	**11K306**	**11K307**	**11K308**
¼-20	11/16"	2"	50	—	**11K309**	**11K310**	**11K311**	**11K312**
⅜-16	1"	2⅞"	25	—	**11K313**	**11K314**	**11K315**	**11K316**



No. 2HNW6


No. 2HNX8


No. 2HPA1



No. 2HNW7

Ramset
DRIVING JOBSITE SPEED

Powder-Actuated Tools

For fast, secure fastening into steel, concrete, and masonry. Ergonomically designed for operator comfort and safety.

Semi-Automatic—Trigger-operated tools use 10-load powder strips for efficient operation. No. 2HNW6 has automatic powder load ejection and steel construction. No. 2HNW7 features power adjust, rubber front end grip, and polyamide housing.

Description	Caliber Loads	Tool Length (In)	Tool Weight (lb.)	Mfr. Model	Item No.
Power-Actuated Tools					
Capacity 2 -1/2 in Pins and 3 in Pin with Washer					
Semi-Automatic, 10 Load Strip	0.27	13 ¼ in	4.5 lb	COBRA	**2HNW6**
Capacity 3 in Pin					
Semi-Automatic, 10 Load Strip	0.22	15⅓	5.5	SA270	**2HNW7**

Description	Mfr. Model	Item No.		Pkg. Qty.
Fastener Pins				
½" Length, 0.300 Head Dia./0.145 Shank Diameter	1503K	**2HNX8**	*	100
¾" Length, 0.300 Head Dia./0.145 Shank Diameter	1506	**2HNX9**	*	100
1" Length, 0.300 Head Dia./0.145 Shank Diameter	1508	**2HNY1**	*	100
1¼" Length, 0.300 Head Dia./0.145 Shank Diameter	1510	**2HNY2**	*	100
1½" Length, 0.300 Head Dia./0.145 Shank Diameter	1512	**2HNY3**	*	100
2" Length, 0.300 Head Dia./0.145 Shank Diameter	1514	**2HNY4**	*	100
2½" Length, 0.300 Head Dia./0.145 Shank Diameter	1516	**2HNY5**	*	100
3" Length, 0.300 Head Dia./0.145 Shank Diameter	1524	**2HNY6**	*	100
Fastening Pins With 1" Washer				
¾" Length, 0.300 Head Dia./0.145 Shank Diameter	1506SD	**2HNY8**	*	100
1" Length, 0.300 Head Dia./0.145 Shank Diameter	1508SD	**2HNY7**	*	100
1¼" Length, 0.300 Head Dia./0.145 Shank Diameter	1510SD	**2HNY9**	*	100
1½" Length, 0.300 Head Dia./0.145 Shank Diameter	1512SD	**2HNZ1**	*	100
2" Length, 0.300 Head Dia./0.145 Shank Diameter	1514SD	**2HNZ2**	*	100
2½" Length, 0.300 Head Dia./0.145 Shank Diameter	1516SDC	**2HNZ3**	*	100
3" Length, 0.300 Head Dia./0.145 Shank Diameter	1524SDP	**2HNZ4**	*	100
Powder Loads				
0.27, Green, 10 Load Strip For Medium Duty Fastening	3RS27	**2HPA1**		100
0.27, Yellow, 10 Load Strip For Heavy Duty Fastening	4RS27	**2HPA2**		100
0.27, Red, 10 Load Strip For Extra Heavy Duty Fastening	5RS27	**2HPA3**		100
Powder Tool Extension Pole				
96"L, For Use With No. 2HNW7	PTSEMI8	**2HPA6**		1

**** All pins are 1060-1065 steel with core hardness of 52-56 Rc.***


Shower Rod Anchor
No. 6UTD3



WINGITS®
The Solutions Company

Shower and Grab Bar Anchors

Shower Rod Anchor—Use with crescent and oval curved shower rods when there is insufficient structural blocking. Installs quickly into any hollow wall substrate up to 1¼" thick. Made of fire-retardant plastic material. Includes 4 stainless steel screws, 4 wings, and waterproof adhesive tape.

Grab Bar Anchors—Watertight installation eliminates blocking, even over grout lines in drywall with tile. No. 6UTC8 is rated up to 600 lb. and No. 6UTC7 is rated up to 800 lb. Each includes stainless steel screws. Meet ADA guidelines and commercial building codes. Installation into bare ½" drywall is not compliant with commercial building codes.

Wall and Tile Drill Bits and Sets—Precision bits cut fast, clean holes to install anchors in ceramic wall tile, wallboard, glass, steel, marble, and plaster. Made of industrial carbide.

Material	Item No.	Pkg. Qty.
Shower Rod Anchor		
Fire Retardant Structural Plastic	**6UTD3**	2
Grab Bar Anchors		
Stainless Steel	**6UTC7**	2
Fire Retardant Structural Plastic	**6UTC8**	2
Wall and Tile Drill Bits and Sets		
¾"	**6UTC9**	1
1¼"	**6UTD0**	1
¼", ¾", 1¼"	**6UTD1**	3
¼", ½", ¾", 1", 1¼"	**6UTD2**	1


Grab Bar Anchor
No. 6UTC7


Grab Bar Anchor
No. 6UTC8


Wall and Tile Drill Bit
No. 6UTC9


Hollow-Wall Anchor


Hollow-Wall Anchor, Self Setting

Hollow-Wall and Caulking Anchors


Caulking Anchor

For light-duty applications.

Hollow-Wall Anchors—Easy-to-install anchors expand behind the wallboard.

Hollow-Wall Anchors, Self Setting—Nos. 11K362 and 11K363 require no predrilling; with pointed tip, anchor drives into wall.

Caulking Anchors—Zamac Cone with 3% to 5% Antimonial Lead Expander. For use with hollow-walls, brick, and block.

Screw Size	Screw Length	Wall Thickness	Drill Size	Item No.	Pkg. Qty.
Hollow Wall Anchors					
3/16"	2 1/16"	1/8" to 5/8"	3/8"	**11K358**	50
M4(6#-32)	1 3/4"	3/8" to 5/8"	5/16"	**11K355**	100
M4(6#-32)	1"	1/8" to 1/2"	5/16"	**11K356**	100
M4(6#-32)	1 1/4"	1/8" to 1/2"	5/16"	**11K362**	100
M4(6#-32)	2"	5/8" to 1 1/4"	5/16"	**11K357**	100
M4(6#-32)	2 3/8"	5/8" to 1 1/4"	5/16"	**11K363**	100
Caulking Anchors					
1/4"	7/8"	—	1/2"	**11K364**	50
3/16"	1"	—	5/16"	**11K365**	25
3/8"	1 1/4"	—	3/4"	**11K366**	25


Conical Screw Anchor


Flanged Anchor


Plug Anchor

FABORY DEWALT ENGINEERED BY Powers

Conical and Plug Anchors

- Plastic

Corrosion-resistant anchors are for light-duty applications in hollow walls, brick, and block.

Screw Size	Drill Size	Includes	Brand	Item No.	Pkg. Qty.
Hollow Wall Anchor					
Conical					
#6	3/16"	(100) Plastic Anchors, Number 11K367, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #6 x 3/4", and 1 Pcs Carbide Tipped Masonry Drill	Fabory	**40L970**	100
#6 to #8	3/16"	—	Fabory	**11K367**	100
#8	3/16"	(100) Plastic Anchors, Number 11K368, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #10 x 1", and 1 Pcs Carbide Tipped Masonry Drill	Fabory	**40L971**	100
#8 to #10	3/16"	—	Fabory	**11K368**	100
#10	1/4"	(100) Plastic Anchors, Number 11K369, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #10 x 1", and 1 Pcs Carbide Tipped Masonry Drill	Fabory	**40L969**	100
#10 to #12	1/4"	—	Fabory	**11K369**	100
#14	5/16"	(50) Plastic Anchors, Number 11K370, (50) Combo Slotted/Phillips Pan Head Sheet Metal Screws #14 x 1 1/2", and (1) Carbide Tipped Masonry Drill	Fabory	**40L972**	50
#14 to #16	5/16"	—	Fabory	**11K370**	50
Flanged					
#4 to #10	3/16"	—	Dewalt Engineered By Powers	**54TV25**	100
#6 to #12	1/4"	—	Dewalt Engineered By Powers	**54TV26**	100
#8 to #14	5/16"	—	Dewalt Engineered By Powers	**54TV27**	100
Hollow Brick Anchor					
Plug					
#6 to #8	3/16"	—	Fabory	**11K371**	100
#10 to #12	3/32"	—	Fabory	**11K373**	100


No. 12F257


No. 11K317


No. 6UTC4


No. 38VC32

FABORY WINGITS® The Solutions Company WallClaw Anchors

Hollow-Wall and Drywall Anchors

Hammer-In Drywall Anchors—Install with no drilling necessary. Easy to remove, leaving only a tiny slit of a hole. Include anchors and screws. Meet ASTM E488 standard.

Hollow-Wall Anchors—Heavy-duty hollow-wall plastic anchors are designed for use in plaster, wallboard, concrete block or hollow tile. Feature 5/16" drill size and easily adjust to accommodate wall thickness up to 2 1/2" when using a short bolt.

MASTER Anchor™ Hollow Wall Anchors—Structural plastic and stainless steel anchors secure objects up to 300 lb. in drywall and will work in holes created by other anchors' failure. Objects can be easily repositioned without loss of anchor integrity. Each includes faceplate, tape, and wings.

8-32 Thread Size supports most bathroom accessories. Can also be used for guest room window dressings, heavy drapery rods, shelving, cabinets, pedestal sinks, dispensers, coat hooks, railings, and most wall-mount accessories with 1" base or larger.

10-32 Thread Size supports low-profile or tilting-mount flatscreen TVs, bathroom partitions, commercial products, and electrical panel boxes.

Self-Drilling Drywall Anchors—Preserve drywall integrity at installation and when screws are removed. Deep thread provides strong engagement in 3/8", 1/2", and 5/8" drywall. No predrilling or hole preparation necessary. Can be easily backed out.

- For plastic use #8 sheet metal screws

Screw Thread Dia.	Grip Range	Includes	Anchor Material	Brand	Item No.	Pkg. Qty.
Hammer-In Drywall Anchors						
#8	1/2 in to 5/8 in	Anchors and Screws	Engineered Plastic	WallClaw	**12F254**	4
	1/2 in to 3/8 in		Engineered Plastic	WallClaw	**12F255**	10
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F256**	25
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F257**	50
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F258**	100
Hollow-Wall Anchors						
#6 to #8	1/8 to 1/4 in	Plastic Setting Key	Plastic	Fabory	**11K317**	100
	3/8 to 1/2 in		Plastic	Fabory	**11K319**	100
	5/8 to 3/4 in		Plastic	Fabory	**11K321**	100
	1 in	—	Plastic	Fabory	**11K323**	50
MASTER Anchor™ Hollow Wall Anchors						
#8	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Anchor	Fire Retardant Structural Plastic	WingIt	**6UEU5**	6
	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Wings	Fire Retardant Structural Plastic	WingIt	**6UTC1**	2
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC2**	24
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC3**	100
#10	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Anchor	Fire Retardant Structural Plastic	WingIt	**6UEU6**	6
	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Wings	Fire Retardant Structural Plastic	WingIt	**6UTC4**	2
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC5**	24
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC6**	100
Self-Drilling Drywall Anchors						
#6 to #10	3/8 to 1/2 in	—	Plastic	Fabory	**11K352**	100
	3/8 to 5/8 in		Zamac	Fabory	**38VC32**	100
	3/8 to 1 in	Anchors and Screws	Zamac	Fabory	**38VC33**	25

Description	Includes	Item No.
Floor Mount		
Corner Bracket,Stainless Steel	(1) Stainless Steel Corner Bracket, ¼" Thick, 6" High, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C154
High Z-Bracket,1 In,Stainless Steel	(1) Z-Bracket With 1" High Rise, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C848
High Z-Bracket,2 In,Stainless Steel	(1) Z-Bracket With 2" High Rise, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C849
Ratchet Strap w/Corner Brackets,90 In	(1) 2" X 90" Strap With Wide-Handle Ratchet And Floor-Mount Plate,(1) 2" X 180" Strap With Floor-Mount Plate, (2) Corner Brackets, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C158
Ratchet Strap,30 In,Gray	(1) 2" X 30" Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2" X 180" Strap With Floor-Mount Plate, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C156
Ratchet Strap,60 In,Gray	(1) 2" X 60" Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2" X 180" Strap With Floor-Mount Plate, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C157
Ratchet Strap,90 In,Gray	(1) 2" X 90" Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2" X 180" Strap With Floor-Mount Plate, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C159
Ratchet Strap,180 In,Gray	(1) 2" X 180" Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2" X 180" Strap With Floor-Mount Plate, (2) ⅜" Drop Anchors, (2) ⅜" Anchor Bolts, (2) ⅜" Washers, Instructions	12C155
Equipment Cable Bracket w/ Quick Disconnect, Silver	(2) 4" x 4" Stainless Steel Plates with 3M VHB Closed Cell Adhesive,(2) Quick Links,(2) 6" Stainless Steel Cables, (2) Stainless Steel Attachment Plates,(4) Surface Prep Pads, Instructions Manual	31NJ18
Wall Mount		
Flammable Cabinet Strut Fastener,Gray	Strut Straps: (2) 2" X 16" Strut Straps With Industrial Hook and Loop And Metal Mounting Bracket, (2) ⅜" Strut-Washer Nuts, (2) ⅜" X 1" 16-Tip Grade 5 Bolts, (2) ⅜" Flat Washers, (2) Surface Prep Pads, Instructions	12C165
Wall Strap w/Side Release Buckle,Black	(2) 1" X 48" Straps Using A Steel Plate With 3M® VHB Adhesive and Steel Buckle, (2) ¼" Metal Stud Anchor With Instructions, (2) ¼" Metal Stud Screw, (2) ¼" Wood Stud Screw, (2) ¼" X 1" Washer, (2) Surface Prep Pad, Instructions	12C166
Wall Strap w/Side Release Buckle,Gray		12C167
File Cabinet Fastener Strap,Black	(1) 2" X 12" Strap With Industrial Hook And Loop, (1) ¼" Metal Stud Anchor With Instructions, (1) ¼" Metal Stud Screw, (1) ¼" Wood Stud Screw, (1) ¼" X 1" Washer, (1) Surface Prep Pad, Instructions	12C168
File Cabinet Fastener Strap,Gray		12C169
Ganging File Strap,Black	(2) 2" X 14" Straps With Industrial Hook And Loop On Each Side, (4) Surface Prep Pads, Instructions	12C160
Ganging File Strap,Gray		12C161
Equipment Wall Strap ,Black	(2) 2" X 48" Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ¼" Wood Stud Screws, (2) ¼" Metal Stud Anchors With Instructions, (2) ¼" Metal Stud Screws, (2) ¼" X 1" Washers, (2) Surface Prep Pads, Instructions	12C839
Equipment Wall Strap,White		12C840
Cart-to-Wall Strap,Black	(1) 16" Strap W/D-Rings, (1) 8" Strap W/Quick-Disconnect Buckle, (1) ¼" Wood Stud Screw, (1) ¼" Metal Stud Anchor W/Instructions, (1) ¼" Metal Stud Screw, (1) ¼" X 1" Washer, Instructions	12C841
Cart-to-Wall Strap,Gray		12C842
Strut Straps w/Side Release Buckle,Black	(2) 2" X 48" Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ⅜" Strut-Washer Nuts, (2) ⅜" X 1" Bolts, (2) ⅜" X 1½" Flat Washers, (2)Surface Prep Pads, Instructions	12C845
Strut Straps w/Side Release Buckle,White	(2) 2" X 48" Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ⅜" Strut-Washer Nuts, (2) ⅜" X 1" Bolts, (2) ⅜" X 1½" Flat Washers, (2) Surface Prep Pads, Instructions	12C846
Equipment Cable Bracket w/ Quick Disconnect, Silver	(2) 24" Stainless Steel Cables, (2) 4"X4" Stainless Steel Attachment Plates with 3M VHB Adhesive,(4) Quick Links,(2) SS Wall/Strut Brackets,(2) ⅜" Strut-Washer Nuts,(2) ⅜" x 1" 16-TPI Grade 5 Bolts,(2) ⅜" x 1" Flat Washers,(2) Surface Prep Pads,Instructions Manual	31NJ19
Steel Furniture Cable,4 In,Silver	(2) End Cap, (1) 4' Cable, (1) Furniture Plate, (1) Wall Plate, (2) 1½" Screws, (1) 2" Screw, Instructions	12C135
Countertop Equipment		
Equipment Fastener, 25 Lbs,Black	(4) 1" X 2" Buckles With 3M® VHB Adhesive, (2) ¾" X 4" Locking Straps, (2) Surface Prep Pads, Instructions	12C147
Equipment Fastener, 25 Lbs,Gray	(4) 1" X 2" Buckles With 3M® VHB Adhesive, (2) ¾" X 4" Locking Straps, (2) Surface Prep Pads, Instructions	12C148
Equipment Fastener, 50 Lbs,Black	(4) 2" X 2" Buckles With 3M® VHB Adhesive, (2) 1" X 5" Locking Straps, (2) Surface Prep Pads, Instructions	12C149
Equipment Fastener,50 Lbs,Gray	(4) 2" X 2" Buckles With 3M® VHB Adhesive, (2) 1" X 5" Locking Straps, (2) Surface Prep Pads, Instructions	12C150
Equipment Fastener,200 Lbs,Black	(4) 2" X 3" Buckles With 3M® VHB Adhesive, (2) 1" X 8" Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C151
Equipment Fastener, 200 Lbs,Gray	(4) 2" X 3" Buckles With 3M® VHB Adhesive,(2) 1" X 8" Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C152
Equipment Fastener,200 Lbs,White	(4) 2" X 3" Buckles With 3M® VHB Adhesive, (2) 1" X 8" Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C153
HPLC 2-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M® VHB Adhesive, (4) 1" X 2" Equipment Buckles With 3M VHB Adhesive,(2) 12" Coated Locking Straps, (4) Surface Prep Pads, Instructions	12C138
HPLC 3-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M® VHB Adhesive, (6) 1" X 2" Equipment Buckles With 3M VHB Adhesive, (2) 16" Coated Locking Straps, (6) Surface Prep Pads, Instructions	12C139
HPLC 4-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M® VHB Adhesive, (8) 1" X 2" Equipment Buckles With 3M VHB Adhesive, (2) 20" Coated Locking Straps, (8) Surface Prep Pads, Instructions	12C140
HPLC 5-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M VHB Adhesive, (10) 1" X 2" Equipment Buckles With 3M VHB Adhesive, (2) 24" Coated Locking Straps, (10) Surface Prep Pads, Instructions	12C141
HPLC 6-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M VHB Adhesive, (12) 1" X 2" Equipment Buckles With 3M VHB Adhesive,(2) 28" Coated Locking Straps, (12) Surface Prep Pads, Instructions	12C142
HPLC 7-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M VHB Adhesive, (14) 1" X 2" Equipment Buckles With 3M VHB Adhesive, (2) 32" Coated Locking Straps, (14) Surface Prep Pads, Instructions	12C143
HPLC 8-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2" X 2" Countertop Buckles With 3M VHB Adhesive, (16) 1" X 2" Equipment Buckles With 3M VHB Adhesive, (2) 36" Coated Locking Straps, (16) Surface Prep Pads, Instructions	12C144
Lasso Strap Fastener, 25 Lbs,Gray	(1) 1" X 2" Buckle With 3M® VHB Adhesive, (1) ¾" X 30" Locking Strap With D-Ring, (2) Surface Prep Pads, Instructions	12C145
Lasso Strap Fastener, 50 Lbs,Gray	(1) 2" X 2" Buckle With 3M® VHB Adhesive, (1) 1" X 30" Locking Strap With D-Ring, (2) Surface Prep Pads, Instructions	12C146
Specialty		
Gel Pad Seismic Fastener,Clear	(4) 1" X 1" Two-Sided Fasteners, (2) Surface Prep Pads, Instructions	12C137
Fire Extinguisher Fastening Strap,Red	(1) Fire Extinguisher Strap, (1) ¼" Wood Stud Screw, (1) ¼" Metal Stud Anchor W/ Instructions, (1) ¼" Metal Stud Screw, (1) ¼" X 1" Washer, Instructions	12C843
Flat Screen Safety Strap,Black	(2) 1" X 18" Straps, (2) Buckles (2" X 2") With 3M® Ahdesive, (2) 8mm x 20mm Machine Screw, (2) 8mm Washers, (2) 6mm x 16mm Machine Screw, (2) 6mm Washers, (2) Wood Screws, (2) Alcohol Pads, ¼ Oz. Putty, (2) Surface Prep Pads, Instructions	12C136
Large Floor Equipment Push Button Strut Strap	(2) 2" X 15" Straps with Hook-and-Loop and Push Button Buckle, (2) 30" Adjusting Straps with Mounting Bracket, (2) ⅜" Strut Nuts, (2) ⅜" x ¾" 16-tpi, Grade 5, Bolts, (2) ⅜" X 1" Flat Washers, (2) Surface Prep Pads, Instruction Sheet	30ZM78
FlexMount Bar - 6 pack	(6) 24" x 2" Rear Mounted Bar with 3M VHB (Very High Bond) Adhesive, (12) Surface Prep Pads, Instruction Sheet	30ZM79
FlexMount BioLocking Straps 2"X2" Buckle	(2) 12" Bio Straps with Carabiners, (2) Thumb Lock 2" x 2" Fasteners with 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM80
FlexMount BioLocking Straps 2"X3" Buckle	(2) 12" Bio Straps with Carabiners, (2) Thumb Lock 2" x 3" Fasteners With 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM81
FlexMount BioCoated Flexible Straps	(2) 12" Bio Straps with Carabiners, (2) Flexible Strap Attachment with 6" Industrial Hook-and-Loop and Side Release Buckles, (2) Surface Prep Pads, Instruction Sheet	30ZM82
FlexMount Monitor/Microscope Bio Coated Flexible Straps	12" Bio Strap with Buckle and Carabiner, Instruction Sheet	30ZM83
FlexMount Cable Fasteners	(2) 12" Cable with Carabiners, (2) 2" x 3" Stainless Steel 316 Plates with 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM84



Countertop Equipment No. 12C141



EARTHQUAKE HOLD!™

Seismic Bracing Fasteners

Earthquake fasteners secure file cabinets, top heavy furniture, lab equipment, hospital equipment and office equipment that is required for IBC compliance.

FLOOR-MOUNT

Corner bracket is used for equipment with round/square legs or corners without legs. Z-brackets are used with equipment that have adjustable legs. Ratchet straps are used for multidoor refrigerators, freezers, and large floor equipment.

WALL-MOUNT

Flammable cabinet strut fastener secures flammable and toxic corrosive cabinets to wall stud. Wall strap is used for copiers and medium-size equipment. File cabinet strap is used for file cabinets, storage cabinets, and other types of similar cabinets. Ganging file cabinet straps are used for ganging file cabinets and similar cabinets together. Equipment wall straps are used for strapping kitchen refrigerators, freezers, and other similar sized items. Cart-to-wall are used for carts, metro racks, and tubular furniture. Strut straps secure refrigerators, freezers, and similar items. Adhesive plate assemblies secure large counter top equipment, refrigerators, and freezers. Steel furniture cable secures tall and top-heavy furniture to wall.

COUNTERTOP

Equipment fasteners are used for countertop and desktop equipment. HPLC Stack fastener kits are used for countertop and desktop stacked equipment. Lasso Strap fasteners are used for countertop and desktop pedestal equipment.

SPECIALTY

Gel pad seismic fastener is used for flat-bottomed equipment weighing less than 25 lb.



No. 3NVK5



No. 3NVL8



No. 3NVJ8

LOCTITE®

Anchoring Adhesives, Mix Nozzles and Applicators

- Cure time: 4 hr.

High performance for greater tension load capacity. Use to anchor threaded rods, bolts, and dowels into concrete, grout-filled block, and masonry. Solvent-free and odorless.

Description	Item No.
Anchoring Adhesives	
Fixmaster® Anchor Bolt Grout HP Kit, Cartridge, 8.6 oz.	**3NVK3**
Fixmaster® Anchor Bolt Grout HP Kit, Dual Cartridge, 20.7 oz.	**3NVK5**
Mixing Nozzles	
For Use With No. 3NVK3	**3NVL8**
For Use With No. 3NVK5	**3NVN1**
Applicators	
For Use With No. 3NVK3	**3NVJ8**
For Use With No. 3NVK5	**3NVK1**



No. 53TX70



No. 53TX72

RED HEAD® CONCRETE ANCHORING SYSTEMS | SIMPSON Strong-Tie®

Anchor Adhesives

A7 Acrylic—All-weather formula holds tight at low temperatures. Fast-curing adhesive works in 35 min. at 60°F. Product is not ration mix-sensitive and is ideal for use in damp holes and underwater applications. Single formula for both hollow and solid base materials. Nondrip, nonsag, easy cleanup. Temp. range: 0° to 110°F.

Structural Anchoring Adhesives—High-strength, fast-setting 10:1 ratio. For threaded rod anchoring or rebar doweling. Meet ASTM C881 standard.

- Cure time: 24 hrs. @ 0°F, 30 min @ 70°F

Description	Container Size	Brand	Item No.
Anchoring Adhesives			
A7 Acrylic	10 oz.	Red Head	**53TX69**
	28 oz.	Red Head	**53TX70**
A7 Acrylic Anchoring Adhesive Kits			
Includes Mixing Nozzle, Hand Dispenser		Red Head	**53TX71**
Includes Mixing Nozzle, Caulking Gun Adapter		Red Head	**53TX72**
Structural Anchoring Adhesives			
AT Anchoring Adhesive	13 oz.	Strong-Tie	**4ZDD5**
	30 oz.	Strong-Tie	**4ZDD6**

Description	Brand	Item No.	Pkg. Qty.
Mixing Nozzles			
Nozzle - For Use with G5 22-Oz and A7 28-Oz. Cartridge No. 4BY26 and 5HE71	Red Head	**4BY21**	1
Mixing Nozzle for C6P-20, overall length 10"	Red Head	**30EC83**	1
A7 Nozzle - For Use with 5- and 8-Oz. Cartridge Nos. 5HE66 and 4UJ69	Red Head	**4UJ68**	1
Plastic, 12 Element, For Use With AT Anchoring Adhesive, 4ZDD4, 4ZDD5, 4ZDD6	Simpson Strong-Tie Anchor Systems	**39H821**	5
Acrylic Adhesive Dispensers			
Metal Injection Tool - For Use with A7 10-Oz. Cartridge No. 1PJB6	Red Head	**1ZNK9**	1



Spin-In



Stud Assembly

Chemical Anchor Capsules and Stud Assemblies

MKT

- Cure time: 10 to 20 min.
- Mixing ratio 7:1

Premeasured adhesive can be double stacked and require no installation tool. Glass capsules are made from polyester resin, quartz sand, and benzoyl peroxide hardener. Sand and aggregate mixture is closest to natural concrete. Spin-In are for chamfered threaded rod and rebar. Stud assemblies are zinc-plated carbon steel.

Container Size	Temp. Range (F)	Anchor Dia.	Rod Dia.	Drill Size	Min. Embedment	Min. Hole Depth	Ultimate Tension in 4000 psi Concrete (lb.)	Item No.	Pkg. Qty.
Spin-in									
½" x 6¼"	23 to 86°	½"	½"	⅝"	4½"	4½"	12770	**21P651**	10
⅝" x 7½"	23 to 86°	⅝"	⅝"	11/16"	5"	5"	19770	**21P652**	10
⅜ x 5"	23 to 95°	⅜"	⅜"	7/16"	3½"	3½"	7,800	**35T288**	10
¾" x 10¼"	23 to 86°	¾"	¾"	⅞"	6½"	6½"	26970	**21P653**	6
⅞" x 11¾"	23 to 95°	⅞"	⅞"	1"	7½"	7½"	31,580	**35T289**	6
1"x 11¾"	23 to 95°	1	1	1⅛"	8½"	8½"	43,090	**35T290**	6

Anchor Dia.	L	Item No.	Pkg. Qty.
Stud Assembly			
Hammer Capsule And Other Adhesives			
⅝"	8"	**35T303**	10
⅝"	12"	**35T304**	10
¾"	8"	**35T305**	10
Spin In Capsule			
⅜"	5"	**35T292**	10
½"	6¼"	**35T293**	10
⅝"	7½"	**35T294**	10
¾"	10¼"	**35T295**	6
Fully Threaded Stud			
⅞"	11¾"	**35T296**	6
Stud Assembly			
1"	11¾"	**35T297**	6

O-Ring Information

DEFINITIONS

AS568 Dash Number—A universal standard that defines the sizes and tolerances for O-rings.

Durometer/Hardness—Elastomer material hardness is referred to as "durometer" within a material, the higher durometer number, the harder the material.

Material Comparison Chart

	Buna N	EPDM	Neoprene	Polyurethane	PTFE	Silicone	Viton®	Viton® ETP
Physical Properties								
Durometer	70 Shore A/ 90 Shore A	70 Shore A	70 Shore A	70 Shore A	55 Shore D	70 Shore A	75 Shore A/ 90 Shore A	75 Shore A
Hardness	Medium Hard/Hard	Medium Hard	Medium Hard	Medium Hard	Very Hard	Medium Hard	Hard/Hard	Hard
Temperature Range	-40° to 250°/ -25° to 250°F	-65° to 300°F	-40° to 275°F	-40° to 180°F	-100° to 500°F	-65° to 450°F	-15° to 400°F	-10° to 400°F
Tensile Strength	Good	Good	Good	Excellent	Excellent	Poor	Good	Good
Compression Set	Good	Good	Fair	Fair	Poor	Good	Excellent	Poor
Resilience	Good	Good	Good	Good	Poor	Fair	Good	Good
Tear Strength	Good	Good	Good	Excellent	Fair	Poor	Fair	Fair
Gas Impermeability	Good	Good	Good	Good	Good	Poor	Good	Good
Environmental Resistance								
Abrasion	Good	Good	Good	Excellent	Good	Poor	Good	Good
Cold	Good	Excellent	Good	Good	Excellent	Excellent	Poor	Poor
Flame	Poor	Poor	Excellent	Poor	Excellent	Fair	Excellent	Excellent
Heat	Good	Good	Good	Fair	Excellent	Excellent	Excellent	Excellent
Ozone	Poor	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Radiation	Poor	Good	Fair	Poor	Excellent	Excellent	Poor	Poor
Weather	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Chemical Resistance								
Acetone	Poor	Excellent	Poor	Poor	Excellent	Poor	Poor	Fair
Anhydrous Ammonia	Good	Excellent	Excellent	Poor	Excellent	Fair	Poor	Fair
Animal Fats	Excellent	Good	Good	Fair	Excellent	Fair	Excellent	Excellent
Bleach	Poor	Excellent	Fair	Poor	Excellent	Good	Excellent	Excellent
Carbon Dioxide	Excellent	Good	Good	Excellent	Excellent	Good	Excellent	Excellent
Detergents	Excellent	Excellent	Good	Poor	Excellent	Excellent	Excellent	Excellent
Diesel Oil	Excellent	Poor	Fair	Fair	Excellent	Poor	Excellent	Excellent
Ethanol	Fair	Excellent	Excellent	Poor	Excellent	Good	Poor	Excellent
Fatty Acids	Good	Fair	Good	Fair	Excellent	Fair	Excellent	Excellent
Gasoline	Good	Poor	Poor	Good	Excellent	Poor	Excellent	Excellent
Hydraulic Oils (Petroleum)	Excellent	Poor	Good	Excellent	Excellent	Good	Excellent	Excellent
Hydrochloric Acid (37%)	Poor	Fair	Poor	Poor	Excellent	Fair	Excellent	Excellent
Kerosene	Excellent	Poor	Good	Excellent	Excellent	Poor	Excellent	Excellent
Liquid Propane Gas	Excellent	Poor	Good	Excellent	Excellent	Fair	Excellent	Excellent
Lubricating Oils (Petroleum)	Excellent	Poor	Good	Good	Excellent	Poor	Excellent	Excellent
Methanol	Poor	Excellent	Excellent	Poor	Excellent	Excellent	Poor	Excellent
Mineral Oil	Excellent	Fair	Good	Excellent	Excellent	Good	Excellent	Excellent
Natural Gas	Excellent	Poor	Excellent	Good	Excellent	Poor	Excellent	Excellent
Nitrogen	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Silicone Grease	Excellent	Excellent	Excellent	Excellent	Excellent	Fair	Excellent	Excellent
Steam	Poor	Excellent	Poor	Poor	Excellent	Fair	Poor	Good
Sulfuric Acid (Dilute)	Good	Excellent	Good	Poor	Excellent	Excellent	Excellent	Excellent
Toluene	Poor	Poor	Poor	Poor	Excellent	Poor	Excellent	Excellent
Vegetable Oils	Excellent	Fair	Fair	Fair	Excellent	Good	Excellent	Excellent
Water	Excellent	Excellent	Good	Poor	Excellent	Excellent	Good	Excellent

O-Ring Splicing Kits

LOCTITE ★ GA GRAINGER APPROVED

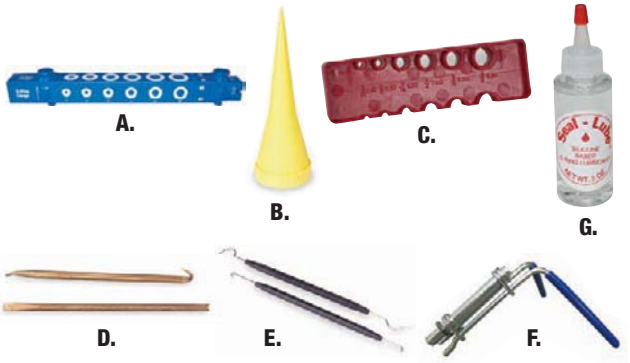
Provide an assortment of O-ring cord stock for quick repair and replacement.

Description	Includes	Brand	Item No.
Buna N			
4-Pc. Splicing Kit	Plastic Box with Lid Card; Cord Stock; 1-fl. oz. Waterproofing Solution, 1-fl. oz. Cleanup Solvent, ⅓ oz. Loctite® 404® Quick Set® Instant Adhesive, Splicing Jig, and Cutting Blade	Loctite	5A234
5-Pc. Splicing Kit, 70 Shore A	Plastic Box with Lid Card; Cord Stock; Splicing Jig, Cutting Tool, and Adhesive	GA	1RHA2
9-Pc. Metric Splicing Kit, 70 Shore A	Plastic Box with Lid Card; Cord stock; Splicing Jig, Cutting Tool, and Adhesive	GA	1RHA6
14-Pc. Inch/Metric Splicing Kit, 70 Shore A	Plastic Box with Lid Card; Cord Stock; Splicing Jig, Cutting Tool	GA	1RHA7
Viton®			
5-Pc. Standard Splicing Kit, 75 Shore A	Plastic Box with Lid Card; Cord Stock; Splicing Jig, Cutting Tool, and Adhesive	GA	1RHA3
Silicone			
5-Pc. Splicing Kit, 70 Shore A	Plastic Box with Lid Card; Cord Stock; Splicing Jig, Cutting Tool, and Adhesive	GA	1RHA4
EPDM			
5-Pc. Splicing Kit, 70 Shore A	Plastic Box with Lid Card; Cord Stock; Splicing Jig, Cutting Tool, and Adhesive	GA	1RHA5



O-Ring Tools and Accessories

Key	Description	Application	Item No.
Measuring			
A	O-Ring Sizing Gauge	Measuring Device Used to Identify O-Ring Size	5JKC0
B	O-Ring Measuring Cone	Sizes 5⁄16 to 5 5⁄8" I.D. Fits Standard Widths 0.070, 0.103, 0.139, 0.210, and 0.275"	1RGZ9
Installation			
C	O-Ring Splicing Jig	For O-Ring Cords 0.059" to 0.375", (1.5mm to 9.5mm)	1RHA8
D	O-Ring Tool, Solid Brass	To Minimize O-ring and Hydraulic Failures due to Improper Installation or Removal	4F418
E	O Ring/Oil Seal Pick Set	To Minimize O-ring and Hydraulic Failures due to Improper Installation or Removal	5MG36
F	Rod Seal O-Ring Installation Tool, Plated Steel With Vinyl Handles	For The Installation Of 1" ID Seals Applied To Shaft Sizes 1 To 1 ½"	3CWA7
		For The Installation Of 1 ½" ID Seals Applied to Shaft Sizes 1 ½ To 2"	3CWA8
		For The Installation Of 2" ID Seals Applied To Shaft Sizes 2" And Over	3CWA9
Lubrication			
G	O-Ring Lubricant	For Ease of Installation of O-Rings	1RGZ6





No. 1RGY9

O-Ring Assortments

No. of Sizes	No. of Pieces	Duro.	Sizes Incl.	Item No.
Buna N				
12	1050	70 Shore A	AS568A Dash No. (100) Each of 006 to 012, 110 to 112, (25) Each of 113, 210	1RGZ5
27	216	90 Shore A	Flange Seals (8) Each of 210, 214, 219, 222, 225, 228, Flat Face Seals (8) Each of 011, 012, 014, 016, 018, 021, 025, 029, Boss Seals (8) Each of 902, 903, 904, 905, 906, 908, 910, 912, 914, 916, 920, 924, 932	5JJT9
30	382	70 Shore A	AS568A Dash No. (20) Each of 006 to 012, (13) Each of 110 to 116, (10) Each of 210 to 222, (7) Each of 325 to 327	1RGX6
30	385	70 Shore A	2mm C/S (16) Each of 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm; 2.5mm C/S (13) Each of 10mm, 11mm, 12mm, 14mm, 16mm, 17mm, 19mm; 3mm C/S (12)	1RGY1
30	385	90 Shore A	Each of 20mm, 22mm, 24mm, 25mm, 27mm, 28mm, 30mm, 32mm, 33mm, 35mm, 36mm, 38mm, (11) 9mm, 4mm C/S (9) Each of 38mm, 41mm, 44mm	1RGY2
36	226	70 Shore A	AS568A Dash No. (10) Each of 005 to 012, (6) Each of 013 to 016, 110 to 116, (5) Each of 017 to 018, 210 to 219, (4) Each of 117 to 121	1RGZ8
36	380	70 Shore A	1.9mm C/S (25) 2.8mm, (20) Each of 3.8mm, 4.8mm, 5.8mm, (15) 6.8mm, 7.8mm, 8.8mm, 9.8mm; 2.4mm C/S (15) 9.8mm, 10.8mm, 11mm, (12) Each of 11.8mm, 12.8mm, 13.8mm, 14.8mm, 15.8mm, (8) Each of 17.8mm, 19.8mm, 20.8mm, 21.8mm; 3.1mm C/S (7) Each of 23.7mm, 24mm, 24.7mm, 25.2mm, 27.7mm, 29.4mm, (6) 24.4mm; 3.5mm C/S (6) Each of 28.7mm, 29.2mm, 29.7mm, 30.7mm, 31.2mm, (5) Each of 21.7mm, 2.1mm; 4mm C/S (6) 23.5mm, (4) 14.5mm	1RGX9
36	436	70 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	3CWA4
36	436	90 Shore A		3CWA5
36	500	70 Shore A	1.5mm C/S (20) 5mm, (15) 13mm, (10) 16mm; 1.6mm C/S (20) Each of 2.2mm, 3.1mm, 4.1mm, 7.1mm, (15) 9.1mm, 10.1mm, 13.1mm; 2mm C/S (20) Each of 4mm, 6mm, (15) 8mm, 9mm, 10mm, 12mm, (10) 14mm, 16mm, 19mm, 20mm; 2.4mm C/S (15) Each of 4.3mm, 5.3mm, 5.6mm, 7.6mm, 8.3mm, 8.6mm, (10) Each: 1.5x16mm, 2x14mm, x16mm, x19mm, x20mm; 2.5mm C/S (10) Each of 10mm, 13mm, 14mm, 15mm, 17mm, 18mm, 19mm; 3mm C/S (10) Each of 9mm, 10mm, 11mm	1RGY3
37	485	70 Shore A	AS568A Dash No. (32) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 222, (6) Each of 325 to 334	1RGZ3
81	1415	90 Shore A	AS568A Dash No. 1/16" C/S (25) Each of 006 to 018, (20) Each of 019 to 021, (15) Each of 022 to 026, 028, (10) Each of 029, 030, 3/32" C/S (25) Each of 109 to 118, (20) Each of 119, 120, (15) Each of 121 to 127, (10) Each of 128, 129, 131, 133, (5) 135, 1/8" C/S (20) Each of 210 to 214, (15) Each of 215 to 222, (10) Each of 223, 224, 226, 228, 232, 236, Boss (25) Each of 904, 907, 908, 910, (15) Each of 903, 906, 912, (10) 916, Flange Fitting O-Rings (10) Each of Flange Numbers 8, 12, 16, (5) Each of Flange Numbers 20, 24, 32	5JJT8
150	1110	70 Shore A	AS568A Dash No. (20) Each of 001 to 016, (15) Each of 110 to 116, (10) Each of 017 to 024, 117 to 124, 210 to 216, (7) Each of 025 to 031, (5) Each of 032 to 043, 125 to 142, 217 to 229, 325 to 328, 901 to 914, 916, 918, 920, 924, 928, 932, (4) Each of 329, 339, (3) Each of 143 to 146, 230 to 232, (2) Each of 044 to 046, 147 to 151, 233 to 237, 331 to 338	1RGX7
Buna N and Viton®				
19	1168	70 Shore A and 75 Shore A	AS568A Dash No. (65) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 214	1RGY9
24	610	70 Shore A	AS568A Dash No. Buna N (40) Each of 012, 013, 110, 112, 113, (30) Each of 007, 014, 016, 115, 214, (25) Each of 010, 011, 111, 116, 210, 211, (20) Each of 120, 212, 216, (10) Each of 218, 220, 222, 326, Viton (10) 120	2NRY7
PTFE				
36	325	55 Shore D	AS568A Dash No. (15) Each of 005 to 012, (10) Each of 013 to 018, 110 to 116, (5) Each of 117 to 121, 210 to 219	1RHA1
36	325	55 Shore D		1RGZ7
Silicone				
36	436	70 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	3CVZ8
Viton®				
20	212	90 Shore A	AS568A Dash No. (12) Each of 905 to 910, (10) Each of 901 to 904, 911 to 914, 916, 918, 920, 924, 928, 932	1RGY6
30	180	75 Shore A	AS568A Dash No. (10) Each of 006 to 012, 110 to 114, (5) Each of 115 to 116, 210 to 215, (2) Each of 216 to 222, 325 to 327	1RGY4
33	461	75 Shore A	AS568A Dash No. (32) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 222, (6) Each of 325 to 330	1RGZ2
36	436	75 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	3CWA3
36	500	75 Shore A	1.5mm C/S (20) Each of 5mm, (15) 13mm, (10) 16mm; 1.6mm C/S (20) Each of 2.2mm, 3.1mm, 4.1mm, 7.1mm, (15) Each of 9.1mm, 10.1mm, 13.1mm; 2.0mm C/S (20) Each of 4mm, 6mm, (15) Each of 8mm, 9mm, 10mm, 12mm, (10) Each of 14mm, 16mm, 19mm, 20mm; 2.4 mm C/S (15) Each of 4.3mm, 5.3mm, 5.6mm, 7.6mm, 8.3mm, 8.6mm; 2.5mm C/S (10) Each of 10mm,13mm, 14mm, 15mm, 17mm, 18mm, 19mm	1RGY7
150	1110	75 Shore A	AS568A Dash No. (10) Each of 210 to 216, (7) Each of 025 to 031, (5) Each of 032 to 043, 125 to 142, 217 to 229, 325 to 328, 901 to 914, 916, 918, 920, 924, 928, 932, (4) Each of 339, 329 (3) Each of 143 to 146, 230 to 232, (2) Each of 044 to 046, 147 to 151, 233 to 237, 331 to 338	1RGY5



PTFE and Neoprene O-Rings

- PTFE operating temp.: -300° to 500°F
- Neoprene operating temp.: -40° to 225°F

Round cross-section. Neoprene O-rings meet SAE J200 and ASTM D2000 standards.

Note: Polyurethane and FEP encapsulated O-rings with silicone or Viton® are also available; on Grainger.com®, search for "polyurethane O-rings", "FEP encapsulated with silicone O-rings", or "FEP encapsulated with Viton® O-rings."

Dash No.	Inside Dia.	Outside Dia.	PTFE - WHITE 55 SHORE D DUROMETER Item No.	Pkg. Qty.	NEOPRENE - BLACK 70 SHORE A DUROMETER Item No.	Pkg. Qty.
Width: 1/16" Fractional (0.070" Actual)						
004	5/64"	0.210"	1RFZ1	25	1BUK8	100
005	3/32"	0.241"	1RFZ2	25	—	—
006	1/8"	0.254"	1RFZ3	50	1BUL1	100
007	5/32"	0.285"	1RFZ4	50	1BUL2	100
008	3/16"	0.316"	1RFZ5	50	1BUL3	100
009	7/32"	0.348"	1RFZ6	50	1BUL4	100
010	1/4"	0.379"	1RFZ7	50	1BUL5	100
011	9/16"	0.441"	1RFZ8	50	1BUL6	100
012	3/8"	0.504"	1RFZ9	50	1BUL7	100
013	7/16"	0.566"	1RGB1	50	1BUL8	100
014	1/2"	0.629"	1RGB2	50	1BUL9	100
015	9/16"	0.691"	1RGB3	50	1BUP1	100
016	5/8"	0.754"	1RGB4	50	1BUP2	100
017	11/16"	0.816"	1RGB5	25	1BUP3	100
018	3/4"	0.879"	1RGB6	25	1BUP4	100
019	13/16"	0.941"	1RGB7	25	—	—
020	7/8"	1.004"	1RGB8	10	1BUP6	100
021	15/16"	1.066"	—	—	1BUP7	100
022	1"	1.129"	1RGC1	10	1BUP8	100
023	1 1/16"	1.191"	1RGC2	10	1BUP9	100
024	1 1/8"	1.254"	1RGC3	10	1BUR1	100
028	1 3/8"	1.504"	1RGC5	10	1BUR3	50
029	1 1/2"	1.629"	1RGC6	10	—	—
030	1 5/8"	1.754"	1RGC7	10	—	—
031	1 3/4"	1.879"	1RGC8	10	—	—
032	1 7/8"	2.004"	1RGC9	5	—	—
033	2"	2.129"	1RGD1	5	—	—
034	2 1/8"	2.254"	1RGD2	5	—	—
Width: 3/32" Fractional (0.103" Actual)						
108	1/4"	0.443"	1RGD6	50	1BUR7	100
109	5/16"	0.505"	1RGD7	50	1BUR8	100
110	3/8"	0.568"	1RGD8	25	1BUR9	100
111	7/16"	0.630"	1RGD9	25	1BUV1	100
112	1/2"	0.693"	1RGE1	25	1BUV2	100
113	9/16"	0.755"	1RGE2	25	1BUV3	100
114	5/8"	0.818"	1RGE3	25	1BUV4	100
115	11/16"	0.880"	1RGE4	25	1BUV5	100
116	3/4"	0.943"	1RGE5	25	1BUV6	100
117	13/16"	1.000"	1RGE6	10	—	—
118	7/8"	1.068"	1RGE7	10	—	—
119	15/16"	1.130"	1RGE8	10	—	—
120	1"	1.193"	1RGE9	10	1BUV9	100
121	1 1/16"	1.255"	1RGF1	10	—	—
122	1 1/8"	1.318"	1RGF2	10	—	—
124	1 1/4"	1.443"	1RGF4	5	1BUW2	100
125	1 5/16"	1.505"	1RGF5	5	—	—
126	1 3/8"	1.568"	1RGF6	5	—	—
128	1 1/2"	1.693"	1RGF8	5	1BUW3	100
129	1 9/16"	1.755"	1RGF9	5	—	—
131	1 11/16"	1.880"	1RGG2	5	—	—
133	1 13/16"	2.005"	1RGG3	5	—	—
137	2 1/16"	2.256"	1RGG5	5	—	—
139	2 3/16"	2.381"	1RGG6	5	—	—
148	2 3/4"	2.943"	1RGG9	5	—	—
Width: 1/8" Fractional (0.139" Actual)						
208	5/8"	0.887"	1RGH4	10	—	—
210	3/4"	1.012"	1RGH5	10	1BUW6	100
211	13/16"	1.074"	1RGH6	10	1BUW7	100
212	7/8"	1.137"	—	—	1BUW8	100
213	15/16"	1.199"	—	—	1BUW9	100
214	1"	1.262"	1RGH9	10	1BUX1	100
216	1 1/8"	1.387"	1RGJ2	10	—	—
217	1 3/16"	1.449"	1RGJ3	10	—	—
218	1 1/4"	1.512"	1RGJ4	10	1BUX5	100
219	1 5/16"	1.574"	1RGJ5	10	1BUX6	100
220	1 3/8"	1.637"	1RGJ6	10	—	—
222	1 1/2"	1.762"	1RGJ8	10	1BUX9	50
223	1 5/8"	1.887"	1RGJ9	10	1BUZ1	50
224	1 3/4"	2.012"	1RGK1	10	1BUZ2	50
225	1 7/8"	2.137"	1RGK2	5	1BUZ3	50
226	2"	2.262"	1RGK3	5	1BUZ4	50
227	2 1/8"	2.387"	1RGK4	5	1BUZ5	50
228	2 1/4"	2.512"	1RGK5	5	1BUZ6	50
229	2 3/8"	2.637"	1RGK6	5	1BUZ7	50
230	2 1/2"	2.762"	1RGK7	5	1BUZ8	25
231	2 5/8"	2.887"	1RGK8	5	—	—
232	2 3/4"	3.012"	1RGK9	5	—	—
233	2 7/8"	3.137"	1RGL1	5	—	—
234	3"	3.262"	1RGL2	5	—	—
235	3 1/8"	3.387"	1RGL3	5	—	—
236	3 1/4"	3.512"	1RGL4	5	1BUZ9	25
238	3 1/2"	3.762"	1RGL6	2	1BVG5	25
239	3 5/8"	3.887"	1RGL7	2	—	—
242	4"	4.262"	1RGL8	2	—	—
243	4 1/8"	4.387"	1RGL9	2	—	—
250	5"	5.262"	1RGN2	2	1BVL2	25
Width: 3/16" Fractional (0.210" Actual)						
326	1 5/8"	2.020"	1RGN5	2	1BVL5	25
327	1 3/4"	2.145"	1RGN6	2	—	—
328	1 7/8"	2.270"	1RGN7	2	—	—
329	2"	2.395"	1RGN8	2	1BVL7	25
330	2 1/8"	2.520"	1RGN9	2	—	—
333	2 1/2"	2.895"	1RGP1	2	1BVL9	25
337	3"	3.395"	—	—	1BWL2	10
338	3 1/8"	3.520"	1RGP4	2	—	—
340	3 3/8"	3.770"	—	—	1BWL4	10
342	3 5/8"	4.020"	1RGP6	2	—	—
343	3 3/4"	4.145"	1RGP7	2	—	—
348	4 3/8"	4.770"	1RGP8	2	—	—

Buna N and Viton® O-Rings

Standard O-rings can be used for sealing valves, faucets, engines, machines, and more. Round cross-section. Medium-hard. Meet SAE J200, ASTM D2000.

Note: Additional O-ring durometers and materials available; on Grainger.com®, search for "Buna N 90 durometers O-rings", "Viton® 90 durometer O-rings", "Silicone O-rings", or "EPDM O-rings."





Dash No.	Inside Dia.	Outside Dia.	BUNA N - BLACK 70 DUROMETER SHORE A Item No.	Pkg. Qty.	VITON® - BLACK 75 DUROMETER SHORE A Item No.	Pkg. Qty.
Width: 1/32" Fractional (0.040" Actual)						
001	1/32"	0.109"	1KER2	100	1BYA4	100
Width: 1/16" Fractional (0.060" Actual)						
003	1/16"	0.176"	1KER5	100	1BYA7	100
Width: 1/16" Fractional (0.070" Actual)						
004	5/64"	0.210"	1KER6	100	1BYA8	100
005	3/32"	0.241"	1KER7	100	1BYA9	100
006	1/8"	0.254"	1KER8	100	1BYB1 *	100
007	5/32"	0.285"	1KER9	100	1BYB2 *	100
008	3/16"	0.316"	1KET1	100	1BYB3 *	100
009	7/32"	0.348"	1KET2	100	1BYB4 *	100
010	1/4"	0.379"	1KET3	100	1BYB5 *	100
011	5/16"	0.441"	1KET4	100	1BYB6 *	100
012	3/8"	0.504"	1KET5	100	1BYB7 *	100
013	7/16"	0.566"	1KET6	100	1BYB8	100
014	1/2"	0.629"	1KET7	100	1BYB9	100
015	9/16"	0.691"	1KET8	100	1BYC1	100
016	5/8"	0.754"	1KET9	100	1BYC2	100
017	11/16"	0.816"	—	—	1BYC3	50
018	3/4"	0.879"	—	—	1BYC4	50
019	13/16"	0.941"	—	—	1BYC5	50
020	7/8"	1.004"	—	—	1BYC6	50
021	15/16"	1.066"	—	—	1BYC7	50
022	1"	1.129"	—	—	1BYC8	50
023	1 1/16"	1.191"	—	—	1BYC9	50
024	1 1/8"	1.254"	—	—	1BYD1	50
025	1 3/16"	1.316"	—	—	1BYD2	50
026	1 1/4"	1.379"	—	—	1BYD3	50
027	1 5/16"	1.441"	—	—	1BYD4	50
028	1 3/8"	1.504"	—	—	1BYD5	50
029	1 1/2"	1.629"	—	—	1BYD6	25
030	1 5/8"	1.754"	—	—	1BYD7	25
031	1 3/4"	1.879"	—	—	1BYD8	25
032	1 7/8"	2.004"	—	—	1BYD9	25
033	2"	2.129"	—	—	1BYF1	25
034	2 1/8"	2.254"	—	—	1BYF2	25
035	2 1/4"	2.379"	—	—	1BYF3	10
036	2 3/8"	2.504"	—	—	1BYF4	10
037	2 1/2"	2.629"	—	—	1BYF5	10
038	2 5/8"	2.754"	—	—	1BYF6	10
039	2 3/4"	2.879"	—	—	1BYF7	10
040	2 7/8"	3.004"	—	—	1BYF8	10
041	3"	3.129"	—	—	1BYF9	10
042	3 1/4"	3.379"	—	—	1BYG1	10
043	3 1/2"	3.629"	—	—	1BYG2	10
044	3 3/4"	3.879"	—	—	1BYG3	10
045	4"	4.129"	—	—	1BYG4	10
046	4 1/4"	4.379"	—	—	1BYG5	10
047	4 1/2"	4.629"	—	—	1BYG6	10
Width: 3/32" Fractional (0.103" Actual)						
102	1/16"	0.255"	—	—	1BYH1	50
105	5/32"	0.349"	—	—	1BYH4	50
106	3/16"	0.380"	—	—	1BYH5	50
107	7/32"	0.412"	—	—	1BYH6	50
108	1/4"	0.443"	—	—	1BYH7	50
109	5/16"	0.505"	—	—	1BYH8	50
110	3/8"	0.568"	—	—	1BYH9 *	50
111	7/16"	0.630"	—	—	1BYJ1 *	50
112	1/2"	0.693"	—	—	1BYJ2 *	50
113	9/16"	0.755"	—	—	1BYJ3 *	50
114	5/8"	0.818"	—	—	1BYJ4 *	50
115	11/16"	0.880"	—	—	1BYJ5 *	50
116	3/4"	0.943"	—	—	1BYJ6 *	50
117	13/16"	1.005"	—	—	1BYJ7	50
118	7/8"	1.068"	—	—	1BYJ8	50
119	15/16"	1.130"	—	—	1BYJ9	50
120	1"	1.193"	—	—	1BYK1	50
121	1 1/16"	1.255"	—	—	1BYK2	50
122	1 1/8"	1.318"	—	—	1BYK3	50
123	1 3/16"	1.380"	—	—	1BYK4	25
124	1 1/4"	1.443"	—	—	1BYK5	25
125	1 5/16"	1.505"	—	—	1BYK6	25
126	1 3/8"	1.568"	—	—	1BYK7	25
127	1 7/16"	1.630"	—	—	1BYK8	25
128	1 1/2"	1.693"	—	—	1BYK9	25
129	1 9/16"	1.755"	—	—	1BYL1	25
130	1 5/8"	1.818"	—	—	1BYL2	25
131	1 11/16"	1.880"	—	—	1BYL3	10
132	1 3/4"	1.943"	—	—	1BYL4	10
133	1 13/16"	2.005"	—	—	1BYL5	10
134	1 7/8"	2.068"	—	—	1BYL6	10
135	1 15/16"	2.131"	—	—	1BYL7	10
136	2"	2.193"	—	—	1BYL8	10
137	2 1/16"	2.256"	—	—	1BYL9	10
138	2 1/8"	2.318"	—	—	1BYN1	10
139	2 3/16"	2.381"	—	—	1BYN2	10
140	2 1/4"	2.443"	—	—	1BYN3	10
141	2 5/16"	2.506"	—	—	1BYN4	10
142	2 3/8"	2.568"	—	—	1BYN5	10
143	2 7/16"	2.631"	—	—	1BYN6	10
144	2 1/2"	2.693"	—	—	1BYN7	10
145	2 9/16"	2.756"	—	—	1BYN8	10
146	2 5/8"	2.818"	—	—	1BYN9	10
147	2 11/16"	2.881"	—	—	1BYP1	10
148	2 3/4"	2.943"	—	—	1BYP2	10
149	2 13/16"	3.006"	—	—	1BYP3	10
150	2 7/8"	3.068"	—	—	1BYP4	10
151	3"	3.193"	—	—	1BYP5	10
152	3 1/4"	3.443"	—	—	1BYP6	2
153	3 1/2"	3.693"	—	—	1BYP7	2
154	3 3/4"	3.943"	—	—	1BYP8	2
155	4"	4.193"	—	—	1BYP9	2
156	4 1/4"	4.443"	—	—	1BYR1	2
157	4 1/2"	4.693"	—	—	1BYR2	2
158	4 3/4"	4.943"	—	—	1BYR3	2
159	5"	5.193"	—	—	1BYR4	2
160	5 1/4"	5.443"	—	—	1BYR5	2
161	5 1/2"	5.693"	—	—	1BYR6	2
162	5 3/4"	5.943"	—	—	1BYR7	2
163	6"	6.193"	—	—	1BYR8	2
164	6 1/4"	6.443"	—	—	1BYR9	2
171	8"	8.193"	—	—	1BYT7	2
172	8 1/4"	8.443"	—	—	1BYT8	2
173	8 1/2"	8.693"	—	—	1BYT9	2
Width: 1/8" Fractional (0.139" Actual)						
201	3/16"	0.449"	—	—	1BYU6	25
202	1/4"	0.512"	—	—	1BYU7	25
203	9/16"	0.574"	—	—	1BYU8	25
204	3/8"	0.637"	—	—	1BYU9	25
205	7/16"	0.699"	—	—	1BYV1	25
206	1/2"	0.762"	—	—	1BYV2	25
207	9/16"	0.824"	—	—	1BYV3	25
208	5/8"	0.887"	—	—	1BYV4	25
209	11/16"	0.949"	—	—	1BYV5	25
210	3/4"	1.012"	—	—	1BYV6 *	25
211	13/16"	1.074"	—	—	1BYV7 *	25
212	7/8"	1.137"	—	—	1BYV8 *	25
213	15/16"	1.199"	—	—	1BYV9 *	25
214	1"	1.262"	—	—	1BYX1 *	25
215	1 1/16"	1.324"	—	—	1KAF2	25
216	1 1/8"	1.387"	—	—	1KAF3	25
217	1 3/16"	1.449"	—	—	1KAF4	25
218	1 1/4"	1.512"	—	—	1KAF5	25
219	1 5/16"	1.574"	—	—	1KAF6	25
220	1 3/8"	1.637"	—	—	1KAF7	25
221	1 7/16"	1.699"	—	—	1KAF8	25
222	1 1/2"	1.762"	—	—	1KAF9	25
223	1 5/8"	1.887"	—	—	1KAG1	25
224	1 3/4"	2.012"	—	—	1KAG2	25
225	1 7/8"	2.137"	—	—	1KAG3	10
226	2"	2.262"	—	—	1KAG4	10
227	2 1/8"	2.387"	—	—	1KAG5	10
228	2 1/4"	2.512"	—	—	1KAG6	10
229	2 3/8"	2.637"	—	—	1KAG7	10
230	2 1/2"	2.762"	—	—	1KAG8	10
231	2 5/8"	2.887"	—	—	1KAG9	10
232	2 3/4"	3.012"	—	—	1KAH1	10
233	2 7/8"	3.137"	—	—	1KAH2	10
234	3"	3.262"	—	—	1KAH3	10
235	3 1/8"	3.387"	—	—	1KAH4	10
236	3 1/4"	3.512"	—	—	1KAH5	10
237	3 3/8"	3.637"	—	—	1KAH6	10
238	3 1/2"	3.762"	—	—	1KAH7	5
239	3 5/8"	3.887"	—	—	1KAH8	5
240	3 3/4"	4.012"	—	—	1KAH9	5
241	3 7/8"	4.137"	—	—	1KAJ1	5
242	4"	4.262"	—	—	1KAJ2	5
243	4 1/8"	4.387"	—	—	1KAJ3	5
244	4 1/4"	4.512"	—	—	1KAJ4	5
245	4 3/8"	4.637"	1KLH3	25	1KAJ5	5
246	4 1/2"	4.762"	1KLH4	25	1KAJ6	5
247	4 5/8"	4.887"	1KLH5	25	1KAJ7	5
248	4 3/4"	5.012"	1KLH6	25	1KAJ8	5
249	4 7/8"	5.137"	1KLH7	10	1KAJ9	5
250	5"	5.262"	1KLH8	10	1KAK1	5
251	5 1/8"	5.387"	1KLH9	10	1KAK2	5
252	5 1/4"	5.512"	1KLJ1	10	1KAK3	5
253	5 3/8"	5.637"	1KLJ2	10	1KAK4	2
254	5 1/2"	5.762"	1KLJ3	10	1KAK5	2
255	5 5/8"	5.887"	1KLJ4	10	1KAK6	2
256	5 3/4"	6.012"	1KLJ5	10	1KAK7	2
257	5 7/8"	6.137"	1KLJ6	10	1KAK8	2
258	6"	6.262"	1KLJ7	10	1KAK9	2
259	6 1/4"	6.512"	1KLJ8	10	1KAL1	2
260	6 1/2"	6.762"	1KLJ9	10	1KAL2	2
261	6 3/4"	7.012"	1KLK1	10	1KAL3	2
262	7"	7.262"	1KLK2	10	1KAL4	2
263	7 1/4"	7.512"	1KLK3	10	1KAL5	2
264	7 1/2"	7.762"	1KLK4	10	1KAL6	2
265	7 3/4"	8.012"	1KLK5	5	1KAL7	2
266	8"	8.262"	1KLK6	5	1KAL8	2
267	8 1/4"	8.512"	1KLK7	5	1KAL9	2
268	8 1/2"	8.762"	1KLK8	5	1KAN1	2
269	8 3/4"	9.012"	1KLK9	5	1KAN2	2
270	9"	9.262"	1KLL1	5	1KAN3	2
271	9 1/4"	9.512"	1KLL2	5	—	—
272	9 1/2"	9.762"	1KLL3	5	1KAN5	2
273	9 3/4"	10.012"	1KLL4	5	—	—
274	10"	10.262"	1KLL5	5	1KAN7	2
275	10 1/2"	10.762"	1KLL6	5	—	—
276	11"	11.262"	1KLL7	5	1KAN9	2
277	11 1/2"	11.762"	1KLL8	5	1KAP1	2
278	12"	12.262"	1KLL9	5	1KAP2	2
279	13"	13.262"	1KLN1	5	1KAP3	2
280	14"	14.262"	1KLN2	5	1KAP4	2
Width: 3/16" Fractional (0.210" Actual)						
309	7/16"	0.832"	1KLN7	50	—	—
310	1/2"	0.895"	1KLN8	50	—	—
311	9/16"	0.957"	1KLN9	50	—	—
312	5/8"	1.020"	1KLP1	50	—	—
313	11/16"	1.082"	1KLP2	50	—	—
314	3/4"	1.145"	1KLP3	50	1KAR5	10
315	13/16"	1.207"	1KLP4	50	1KAR6	10
316	7/8"	1.270"	1KLP5	50	1KAR7	10
317	15/16"	1.332"	1KLP6	50	1KAR8	10
318	1"	1.395"	1KLP7	50	1KAR9	10
319	1 1/16"	1.457"	1KLP8	50	1KAT1	10
320	1 1/8"	1.520"	1KLP9	50	1KAT2	10
321	1 3/16"	1.582"	1KLR1	50	1KAT3	10
322	1 1/4"	1.645"	1KLR2	50	1KAT4	10
323	1 5/16"	1.707"	1KLR3	50	—	—
324	1 3/8"	1.770"	1KLR4	50	1KAT6	10
325	1 1/2"	1.895"	1KLR5	50	1KAT7	10
326	1 5/8"	2.020"	1KLR6	50	1KAT8	10
327	1 3/4"	2.145"	1KLR7	50	1KAT9	10
328	1 7/8"	2.270"	1KLR8	50	1KAU1	10
329	2"	2.395"	1KLR9	50	1KAU2	10
330	2 1/8"	2.520"	1KLT1	50	1KAU3	10
331	2 1/4"	2.645"	1KLT2	50	1KAU4	10
332	2 3/8"	2.770"	1KLT3	50	1KAU5	10
333	2 1/2"	2.895"	1KLT4	50	1KAU6	5
334	2 5/8"	3.020"	1KLT5	50	1KAU7	5
335	2 3/4"	3.145"	1KLT6	50	1KAU8	5
336	2 7/8"	3.270"	1KLT7	50	1KAU9	5
337	3"	3.395"	1KLT8	50	1KAV1	5
338	3 1/8"	3.520"	1KLT9	50	1KAV2	5
339	3 1/4"	3.645"	1KLU1	50	1KAV3	5
340	3 3/8"	3.770"	1KLU2	25	1KAV4	5
341	3 1/2"	3.895"	1KLU3	25	1KAV5	5
342	3 5/8"	4.020"	1KLU4	25	1KAV6	2
343	3 3/4"	4.145"	1KLU5	25	1KAV7	2
344	3 7/8"	4.270"	1KLU6	25	1KAV8	2
345	4"	4.395"	1KLU7	25	1KAV9	2
346	4 1/8"	4.520"	1KLU8	25	1KAW1	2
347	4 1/4"	4.645"	1KLU9	5	1KAW2	2
348	4 3/8"	4.770"	1KLV1	5	1KAW3	2
349	4 1/2"	4.895"	1KLV2	5	1KAW4	2
350	4 5/8"	5.020"	1KLV3	5	1KAW5	2
351	4 3/4"	5.145"	1KLV4	5	1KAW6	2
352	4 7/8"	5.270"	1KLV5	5	1KAW7	2
353	5"	5.395"	1KLV6	5	1KAW8	2
354	5 1/8"	5.520"	1KLV7	5	1KAW9	2

CONTINUED

CONTINUED

Buna N and Viton® O-Rings

Dash No.	Inside Dia.	Outside Dia.	BUNA N - BLACK 70 DUROMETER SHORE A Item No.	Pkg. Qty.	VITON® - BLACK 75 DUROMETER SHORE A Item No.	Pkg. Qty.
355	5¼"	5.645"	**1KLV8**	5	**1KAX1**	2
356	5⅜"	5.770"	**1KLV9**	5	—	—
357	5½"	5.895"	**1KLW1**	5	**1KAX3**	2
358	5⅝"	6.020"	**1KLW2**	5	**1KAX4**	2
359	5¾"	6.145"	**1KLW3**	5	**1KAX5**	2
360	5⅞"	6.270"	**1KLW4**	5	**1KAX6**	2
361	6"	6.395"	**1KLW5**	5	**1KAX7**	2
362	6¼"	6.645"	**1KLW6**	5	**1KAX8**	2
363	6½"	6.895"	**1KLW7**	5	**1KAX9**	2
364	6¾"	7.145"	**1KLW8**	5	—	—
365	7"	7.395"	**1KLW9**	5	**1KAZ2**	2
366	7¼"	7.645"	**1KLX1**	5	**1KAZ3**	2
367	7½"	7.895"	**1KLX2**	5	**1KAZ4**	2
368	7¾"	8.145"	**1KLX3**	5	**1KAZ5**	2
369	8"	8.395"	**1KLX4**	5	**1KAZ6**	2
370	8¼"	8.645"	**1KLX5**	5	**1KAZ7**	2
371	8½"	8.895"	**1KLX6**	5	**1KAZ8**	2
372	8¾"	9.145"	**1KLX7**	5	**1KAZ9**	2
373	9"	9.395"	**1KLX8**	5	**1KBA1**	2
374	9¼"	9.645"	**1KLX9**	5	—	—
376	9¾"	10.145"	—	—	**1KBA4**	1
377	10"	10.395"	**1KLY3**	5	**1KBA5**	1
378	10½"	10.895"	**1KLY4**	5	**1KBA6**	1
379	11"	11.395"	**1KLY5**	5	—	—
380	11½"	11.895"	**1KLY6**	5	—	—
381	12"	12.395"	**1KLY7**	5	—	—
382	13"	13.395"	**1KLY8**	5	**1KBB1**	1
383	14"	14.395"	**1KLY9**	5	**1KBB2**	1
384	15"	15.395"	—	—	**1KBB3**	1
385	16"	16.375"	**1KLZ2**	5	**1WLK1**	1
386	17"	17.375"	**1KLZ3**	5	**1WLK2**	1
388	19"	19.375"	**1KLZ5**	2	**1WLK4**	1
391	22"	22.375"	—	—	**1WLK7**	1
393	24"	24.360"	**1KML1**	1	—	—
395	26"	26.360"	**1KML3**	1	**1WLL2**	1
Width: ¼" Fractional (0.275" Actual)						
425	4½"	5.025"	**1KML4**	5	**1WLL3**	2
426	4⅝"	5.150"	**1KML5**	5	**1WLL4**	2
427	4¾"	5.275"	**1KML6**	5	**1WLL5**	2
428	4⅞"	5.400"	**1KML7**	5	—	—
429	5"	5.525"	**1KML8**	5	**1WLL7**	2
430	5⅛"	5.650"	**1KML9**	5	**1WLL8**	2
431	5¼"	5.775"	**1KNL1**	5	**1WLL9**	2
432	5⅜"	5.900"	**1KNL2**	5	**1WLN1**	2
433	5½"	6.025"	**1KNL3**	5	**1WLN2**	2
434	5⅝"	6.150"	**1KNL4**	5	—	—
435	5¾"	6.275"	**1KNL5**	5	—	—
436	5⅞"	6.400"	**1KNL6**	5	—	—
437	6"	6.525"	**1KNL7**	5	**1WLN9**	2
438	6¼"	6.775"	**1KNL8**	2	**1WLP2**	2
439	6½"	7.025"	**1KNL9**	2	**1WLP4**	2
440	6¾"	7.275"	**1KPL1**	2	**1WLP6**	2
441	7"	7.525"	**1KPL2**	2	—	—
442	7¼"	7.775"	**1KPL3**	2	**1WLR1**	2
443	7½"	8.025"	**1KPL4**	2	**1WLR3**	2
444	7¾"	8.275"	**1KPL5**	2	**1WLR5**	2
445	8"	8.525"	**1KPL6**	2	**1WLR7**	2
446	8½"	9.025"	**1KPL7**	2	**1WLR9**	2
447	9"	9.525"	**1KPL8**	2	**1WLT2**	2
448	9½"	10.025"	**1KPL9**	2	**1WLT4**	1
449	10"	10.525"	**1KRL1**	2	**1WLT6**	1
450	10½"	11.025"	**1KRL2**	2	**1WLT8**	1
451	11"	11.525"	—	—	**1WLU1**	1
452	11½"	12.025"	**1KRL4**	2	**1WLU3**	1
453	12"	12.525"	**1KRL5**	2	**1WLU5**	1
454	12½"	13.025"	**1KRL6**	2	**1WLU7**	1
455	13"	13.525"	**1KRL7**	2	—	—
456	13½"	14.025"	**1KRL8**	2	**1WLV2**	1
457	14"	14.525"	**1KRL9**	2	**1WLV4**	1
458	14½"	15.025"	**1KTL1**	2	**1WLV6**	1
459	15"	15.525"	**1KTL2**	2	**1WLV8**	1
461	16"	16.505"	**1KTL4**	2	**1WLW3**	1
462	16½"	17.005"	**1KTL5**	2	—	—
463	17"	17.505"	**1KTL6**	2	—	—
464	17½"	18.005"	**1KTL7**	2	—	—
467	19"	19.505"	**1KUA1**	2	**1WLX6**	1
468	19½"	20.025"	—	—	**1WLX8**	1
471	22"	22.505"	—	—	**1WLY5**	1
473	24"	24.490"	—	—	**1WLY9**	1
474	25"	25.490"	—	—	**1WLZ2**	1
475	26"	26.490"	—	—	**1WLZ4**	1

Actual Inside Dia.	Outside Dia.	BUNA N-70 SHORE A Item No.	Pkg. Qty.	VITON-75 SHORE A Item No.	Pkg. Qty.
2mm	4.0mm	**1RHZ2**	100	—	—
2.0mm	4.0mm	—	—	**1RHL9**	25
2.2mm	5.4mm	**1RJA8**	100	**1RHP6**	25
3.0mm	6.0mm	**1RHZ7**	100	—	—
3.0mm	7.0mm	**1RJC5**	100	—	—
3.8mm	7.6mm	**1RJB7**	100	—	—
4.0mm	6.0mm	**1RHZ3**	100	**1RHN1**	25
4.0mm	7.0mm	**1RHZ8**	100	**1RHN6**	25
4.0mm	8.0mm	**1RJC6**	100	**1RHR5**	25
4.8mm	8.6mm	**1RJB8**	100	—	—
5mm	8.0mm	**1RHZ9**	100	**1RHN7**	25
5.0mm	7.0mm	**1RHZ4**	100	**1RHN2**	25
5.0mm	9.0mm	**1RJC7**	100	**1RHR6**	25
5.8mm	9.6mm	**1RJB9**	100	—	—
6.0mm	10.0mm	**1RJC8**	100	**1RHR7**	25
6.0mm	9.0mm	**1RJA1**	100	—	—
6.8mm	10.6mm	**1RJC1**	100	—	—
7mm	10.0mm	—	—	**1RHN9**	25
7.0mm	11.0mm	**1RJC9**	100	**1RHR8**	25
7.0mm	10.0mm	**1RJA2**	100	—	—
7.1mm	10.3mm	**1RJB2**	100	**1RHP9**	25
7.6mm	12.4mm	**1RJE8**	100	**1RHU7**	25
7.8mm	11.6mm	**1RJC2**	100	—	—
8.0mm	12.0mm	**1RJD1**	100	**1RHR9**	25
8.6mm	13.4mm	—	—	**1RHU9**	25
8.8mm	12.6mm	**1RJC3**	100	—	—
9.0mm	13.0mm	**1RJD2**	100	**1RHT1**	25
9.0mm	14.0mm	**1RJG5**	100	**1RHV1**	10
9.0mm	15.0mm	—	—	**1RHW7**	10
9.0mm	12.0mm	**1RJA3**	100	—	—
9.1mm	12.3mm	**1RJB3**	100	**1RHR1**	25
9.8mm	13.6mm	**1RJC4**	100	—	—
9.8mm	14.6mm	**1RJF2**	100	—	—
10.0mm	16.0mm	**1CTC8**	100	—	—
10.0mm	12.0mm	**1RHZ5**	100	**1RHN3**	25
10.0mm	13.0mm	**1RJA4**	100	**1RHP2**	25
10.0mm	14.0mm	**1RJD3**	100	**1RHT2**	25
10.0mm	15.0mm	**1RJG6**	100	**1RHV2**	10
10.1mm	13.3mm	—	—	**1RHR2**	25
10.8mm	15.6mm	**1RJF3**	100	—	—
11.0mm	16.0mm	**1RJG7**	100	**1RHV3**	10
11.0mm	17.0mm	**1RJJ2**	100	**1RHW9**	10
11.0mm	15.8mm	**1RJF4**	100	—	—
11.8mm	16.6mm	**1RJF5**	100	—	—
12.0mm	14.0mm	**1RHZ6**	100	**1RHN4**	25
12.0mm	15.0mm	**1RJA5**	100	**1RHP3**	25
12.0mm	16.0mm	**1RJD4**	100	**1RHT3**	25
12.0mm	17.0mm	**1RJG8**	100	**1RHV4**	10
12.3mm	7.1mm	**1CTC9**	100	—	—
12.8mm	17.6mm	**1RJF6**	100	—	—
13.0mm	16.0mm	**1RJA6**	100	**1RHP4**	25
13.0mm	17.0mm	**1RJD5**	100	**1RHT4**	25
13.0mm	18.0mm	**1RJG9**	100	**1RHV5**	10
13.1mm	16.3mm	—	—	**1RHR3**	25
13.8mm	18.6mm	**1RJF7**	100	—	—
14.0mm	18.0mm	**1RJD6**	100	**1RHT5**	25
14.0mm	19.0mm	**1RJH1**	100	**1RHV6**	10
14.8mm	19.6mm	**1RJF8**	100	—	—
15.0mm	19.0mm	**1RJD7**	100	**1RHT6**	25
15.0mm	20.0mm	**1RJH2**	100	**1RHV7**	10
15.8mm	20.6mm	**1RJF9**	100	—	—
16mm	20.0mm	—	—	**1RHT7**	25
16.0mm	19.0mm	**1RJA7**	100	**1RHP5**	25
16.0mm	21.0mm	**1RJH3**	100	**1RHV8**	10
16.0mm	20.0mm	**1RJD8**	100	—	—
17mm	22.0mm	—	—	**1RHV9**	10
17.0mm	22.0mm	**1RJH4**	100	—	—
17.8mm	22.6mm	**1RJG1**	100	—	—
18.0mm	23.0mm	**1RJH5**	100	**1RHW1**	10
18.0mm	24.0mm	**1RJJ3**	100	**1RHX1**	10
19.0mm	23.0mm	**1RJD9**	100	**1RHT8**	25
19.0mm	25.0mm	**1RJJ4**	100	**1RHX2**	10
19.0mm	24.0mm	**1RJH6**	100	—	—
19.8mm	24.6mm	**1RJG2**	50	—	—
20.0mm	24.0mm	**1RJE1**	100	**1RHT9**	25
20.0mm	25.0mm	**1RJH7**	100	**1RHW3**	10
20.0mm	26.0mm	**1RJJ5**	50	**1RHX3**	10
20.8mm	25.6mm	**1RJG3**	50	—	—
21.8mm	26.6mm	**1RJG4**	50	—	—
22.0mm	26.0mm	**1RJE2**	100	**1RHU1**	20
22.0mm	27.0mm	**1RJH8**	50	**1RHW4**	10
22.0mm	28.0mm	**1RJJ6**	50	—	—
22.1mm	29.1mm	**1RJL7**	25	—	—
23.0mm	27.0mm	**1RJE3**	50	—	—
23.5mm	31.5mm	**1RJP1**	25	—	—
23.7mm	30.7mm	**1RJL8**	25	—	—
24.0mm	28.0mm	**1RJE4**	50	**1RHU3**	20
24.0mm	30.0mm	**1RJJ7**	50	**1RHX5**	10
25.0mm	31.0mm	**1RJJ8**	50	**1RHX6**	10
25.7mm	32.7mm	**1RJN2**	25	—	—
27.0mm	32.0mm	**1RJH9**	50	**1RHW5**	10
27.0mm	33.0mm	**1RJJ9**	50	**1RHX7**	10
27.7mm	34.7mm	**1RJN3**	25	—	—
28.0mm	34.0mm	**1RJK1**	50	**1RHX8**	10
28.7mm	35.7mm	**1RJN4**	25	—	—
29.2mm	36.2mm	**1RJN5**	25	—	—
29.7mm	36.7mm	**1RJN6**	25	—	—
30.0mm	36.0mm	**1RJK2**	50	**1RHX9**	10
30.7mm	37.7mm	**1RJN7**	25	—	—
31.2mm	38.2mm	**1RJN8**	25	—	—
32.0mm	37.0mm	**1RJJ1**	50	**1RHW6**	10
32.0mm	38.0mm	**1RJK3**	50	**1RHY1**	10
33mm	39.0mm	—	—	**1RHY2**	10
33.0mm	39.0mm	**1RJK4**	25	—	—
35.0mm	41.0mm	**1RJK5**	25	**1RHY3**	10
36.0mm	42.0mm	**1RJK6**	25	**1RHY4**	10
38.0mm	44.0mm	**1RJK7**	25	**1RHY5**	10
38.0mm	46.0mm	**1RJP2**	25	—	—
40.0mm	46.0mm	**1RJK8**	25	**1RHY6**	10
41.0mm	49.0mm	**1RJP3**	25	—	—
44.0mm	52.0mm	**1RJP4**	25	—	—
45.0mm	51.0mm	**1RJK9**	25	**1RHY7**	10
50.0mm	56.0mm	**1RJL1**	25	**1RHY8**	10
56.0mm	62.0mm	**1RJL2**	25	**1RHY9**	8
59.0mm	65.0mm	**1RJL3**	25	**1RHZ1**	8

** Also available in brown color; see page 2176.*



Brown Viton® O-Rings

- Round cross-section
- Durometer: 75 Shore A

Brown color allows easy identification. Meet ASTM D2000 and SAE J200 standards.

Dash No.	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Width: 1⁄16" Fractional (0.070" Actual)				
006	⅛"	0.254"	**1CRZ7**	25
007	5⁄32"	0.285"	**1CRZ8**	100
008	3⁄16"	0.316"	**1CRZ9**	100
009	7⁄32"	0.348"	**1CTB1**	100
010	¼"	0.379"	**1CTB2**	100
011	5⁄16"	0.441"	**1CTB3**	100
012	⅜"	0.504"	**1CTB4**	100
Width: 3⁄32" Fractional (0.103" Actual)				
110	⅜"	0.568"	**1CTB5**	25
111	7⁄16"	0.630"	**1CTB6**	50
112	½"	0.693"	**1CTB7**	50
113	9⁄16"	0.755"	**1CTB8**	50
114	⅝"	0.818"	**1CTB9**	50
115	11⁄16"	0.880"	**1CTC1**	50
116	¾"	0.943"	**1CTC2**	50
Width: 1⁄8" Fractional (0.139" Actual)				
210	¾"	1.012"	**1CTC3**	25
211	13⁄16"	1.074"	**1CTC4**	25
212	⅞"	1.137"	**1CTC5**	25
213	15⁄16"	1.199"	**1CTC6**	25
214	1"	1.262"	**1CTC7**	25

Key Stock Information

KEY STOCK

Step (Offset)

Precision milled with steps notched in at regular intervals for repairing sprockets, gears, and pulleys.

KEYS

A key is a small metal block or wedge inserted between a shaft and the hub of a pulley, gear, sprocket, or other rotating power device. The key provides driving torque and prevents movement. One part of the key fits into a precut slot in the shaft called a key seat. The remainder slides into a groove in the hub called a keyway.

Machine

Elongated keys feature rounded ends, square ends, or tapered gib heads.

Woodruff

Flat, semicircular keys that rock into place and adjust to an angular spine without coming unseated.

Key Stock Assortments

GA GRAINGER APPROVED ITW Bee Leitzke

Packaged in a sturdy standable chipboard container.

No. of Pieces	Material	Includes	Item No.
GA			
Key Stock Assortment			
31	Steel Zinc	12" Lengths (5) Each: 1/8x1/8", 3/16x3/16", 1/4x1/4", 5/16x5/16", 3/8x3/8", (3) Each: 7/16x7/16", 1/2x1/2", Standable Chipboard Container	5WB10
	18-8 Stainless Steel Plain	12" Lengths (5) Each: 1/8x1/8", 3/16x3/16", 1/4x1/4", 5/16x5/16", 3/8x3/8", (3) Each: 7/16x7/16", 1/2x1/2", Standable Chipboard Container	5WA98
Key Stock Kit			
7	Steel Zinc	12" Lengths (1) Each: 1/8x1/8", 3/16x3/16", 3/16x1/4", 1/4x5/16", 5/16x3/8", 3/8x7/16", 7/16x1/2", Standable Chipboard Container	5WA96
	18-8 Stainless Steel Plain	12" Lengths (1) Each: 1/8x1/8", 3/16x3/16", 1/4x1/4", 5/16x5/16", 3/8x3/8", 7/16x7/16", 1/2x1/2", Standable Chipboard Container	5WA94
Machine Key Kit			
25	Steel Plain	3⅜" Lengths (3) Each: 6mmx6mm, 8mmx8mm, (2) Each: 4mmx4mm, 5mmx5mm, 7mmx7mm, 7mmx8mm, 8mmx10mm, 8mmx12mm, 10mmx10mm, 12mmx12mm, (1) Each: 10mmx16mm, 11mmx18mm, 12mmx20mm, Plastic Compartmented Box with Lid Chart	5WE27
58	Steel Zinc	(5) Each: 3/16x3/16x3/4", x1", x1-1/4", 1/4x1/4x ¾", x1-1/4", x1-1/2", 5/16x5/16x1-1/4", x1-1/2", 3/8x3/8x1-1/4", x1-1/2", (3) Each: 1/8x1/8x3/4", x1", (2) Each: 1/2x1/2x1-1/2", Plastic Compartmented Box with Lid Chart	5WE25
Step Key Stock Assortment			
7	Steel Zinc	12" Lengths (1) Each: 3/16x1/8", 3/16x1/4", 1/4x5/16", 1/4x3/8", 3/8x5/16", 3/8x1/2", 1/2x5/8", Standable Chipboard Container	5WA92
Itw Bee Leitzke			
Machine Key Kit			
70	1018 Steel Plain	1½" Lengths (20) Each: ⅛" Square, (12) Each: 3⁄16" Square, 3/16x1/4" Rectangular, (10) Each: ¼" Square, (8) Each: 5⁄16" Square, ⅜" Square, Plastic Compartmented Box with Lid Chart	5A201
Machinery and Woodruff Key Asst.			
401	Low Carbon Steel Plain	Woodruff Keys (45) Each: #3 (1/8x1/2"), #5 (1/8x5/8"), (30) Each: #9 (3/16x3/4"), (22) Each: #6 (5/32x5/8"), #7 (1/8x3/4"), (20) Each: # 15 (1/4x1"), (15) Each: #10 (5/32x7/8"), #A (1/4x7/8"), (12) Each: #13 (3/16x1"), (9) Each: #C (5/16x1-1/8"), #21 (1/4x1-1/4"), (4) Each: #G (3/8x1-1/2"), Machinery Keys 1½" Lengths (50) Each: ⅛" Square, (30) Each: 3⁄16" Square, (25) Each: 3/16x1/4" Rectangular, (18) Each: ¼" Square, (15) Each: 5⁄16" Square, ⅜" Square, Plastic Compartmented Box with Lid Chart	5A202
Woodruff Key Assortment			
72	Low Carbon Steel Plain	(18) Each: #3 (1/8x1/2"), (12) Each: #5 (1/8x5/8"), #6 (5/32x5/8"), #9 (3/16x3/4"), (10) Each: #A (1/4x7/8"), (8) Each: #15 (1/4x1"), Compartmented Plastic Box with Lid Chart	5A200
250	Low Carbon Steel Plain	(40) Each: #6 (5/32x5/8"), (30) Each: #5 (1/8x5/8"), (20) Each: #212 (3/32x3/8"), #2 (3/32x1/2"), #3 (1/8x1/2"), #7 (1/8x3/4"), #9 (3/16x3/4"), (10) Each: #211 (1/16x3/8"), #213 (1/8x3/8"), #1 (1/16x1/2"), #4 (3/32x5/8"), #8 (5/32x5/8"), (5) Each: #10 (5/32x7/8"), #11 (3/16x7/8"), #12 (7/32x7/8"), #61 (3/16x5/8"), #91 (1/4x3/4"), #A (1/4x7/8"), Plastic Compartmented Box with Lid Chart	4F416



No. 5WA92



No. 5A200

Machine Keys



Made of carbon steel. For use on power transmission shafts to hold pulleys and gears tightly on the shaft. Oversized needs to be machined for proper fit.

Square	Length	Item No.	Pkg. Qty.
Oversized			
⅛"	½"	5WE93	10
	¾"	5WE95	10
	1"	5WE97	10
3⁄16"	½"	5WE99	10
	¾"	5WU11	10
	1"	5WU13	10
	1¼"	5WU15	10
	1½"	5WU17	10
	1¾"	5WU19	10
	2"	5WU21	10
¼"	¾"	5WU23	10
	1"	5WU25	10
	1¼"	5WU27	10
	1½"	5WU29	10
	1¾"	5WU31	10
	2"	5WU33	10
	2¼"	5WU35	10
	2½"	5WU37	10
⅜"	1"	5WU39	10
	1¼"	5WU41	10
	1¾"	5WU43	10
	2"	5WU45	10
	2¼"	5WU47	10
	2¾"	5WU49	10
½"	1"	5WU51	10
	1⅜"	5WU53	10
	2"	5WU55	10

Square	Length	Item No.	Pkg. Qty.
Undersized			
⅛"	¾"	5WE31	10
	1"	5WE33	10
	1¼"	5WE35	10
5⁄32"	8mm	5WU83	25
	10mm	5WU85	25
	12mm	5WU87	25
	14mm	5WU89	25
	16mm	5WU91	25
3⁄16"	½"	5WE37	10
	¾"	5WE39	10
	1"	5WE41	10
	1¼"	5WE43	10
	1½"	5WE45	10
	1¾"	5WE47	10
	2"	5WE49	10
	2½"	5WE51	10
13⁄64"	14mm	5WU93	25
	16mm	5WU95	25
	18mm	5WU97	25
	20mm	5WU99	25
	25mm	5WY11	25
15⁄64"	20mm	5WY13	25
	25mm	5WY15	25
	30mm	5WY17	25
	40mm	5WY21	25
¼"	¾"	5WE53	10
	1"	5WE55	10
	1¼"	5WE57	10
⅜"	2"	5WE83	10
	2½"	5WE85	10
½"	1½"	5WE87	10
	2"	5WE89	10
	2½"	5WE91	10



Woodruff Keys

- Tensile strength: 72,000 psi
- Length tolerance: +0.000 to -0.010

Made of medium carbon steel. Remountable machinery keys can withstand great strain; designed to be installed deep into shafts and firmly embedded.

Key Size	SAE No.	Item No.	Pkg. Qty.
1⁄16 x ½"	1	1AME2	100
3⁄32 x ½"	2	1AME3	100
3⁄32 x ⅝"	4	1AME4	100
⅛ x ½"	3	1AME5	100
⅛ x ⅝"	5	1AME6	100
⅛ x ¾"	7	1AME7	100
5⁄32 x ⅝"	6	1AME8	100
5⁄32 x ¾"	8	1AME9	100
5⁄32 x ⅞"	10	1AMG1	50
3⁄16 x ⅝"	61	1AMG2	100
3⁄16 x ¾"	9	1AMG3	100
3⁄16 x ⅞"	11	1AMG4	50
3⁄16 x 1"	13	1AMG5	25
3⁄16 x 1⅛"	16	1AMG6	25
3⁄16 x 1¼"	19	1AMG7	25
7⁄32 x ⅞"	12	1AMG8	50
7⁄32 x 1"	14	1AMG9	25
7⁄32 x 1⅛"	17	1AMJ1	25

Key Size	SAE No.	Item No.	Pkg. Qty.
7⁄32 x 1¼"	20	1AMJ2	25
¼ x ¾"	91	1AMJ3	50
¼ x ⅞"	A	1AMJ4	50
¼ x 1"	141	1AMJ5	25
¼ x 1"	15	1AMJ6	25
¼ x 1⅛"	18	1AMJ7	25
¼ x 1¼"	21	1AMJ8	25
¼ x 1⅜"	22	1AMJ9	10
¼ x 1½"	24	1AMU1	10
5⁄16 x 1"	B	1AMU2	25
5⁄16 x 1⅛"	C	1AMU3	25
5⁄16 x 1¼"	D	1AMU4	10
5⁄16 x 1½"	25	1AMU6	10
5⁄16 x 1⅜"	23	1AMU5	10
⅜ x 1"	152	1AMU7	25
⅜ x 1½"	G	1AMV1	10
⅜ x 1¼"	E	1AMU8	10
⅜ x 1⅜"	F	1AMU9	10



Key Stock

Size	L	Item No.
Undersized		
18-8 Stainless Steel, Plain Finish		
1/8 x 1/8"	12"	5UE57
	36"	5WY23
	72"	4ETL7
3/16 x 3/16"	12"	5UE59
	36"	5TU46
	72"	4ETL8
1/4 x 1/4"	12"	5UE61
	36"	5TU49
	72"	4ETL9
5/16 x 5/16"	12"	5UE63
	36"	5TU52
	72"	4ETN1
3/8 x 3/8"	12"	5UE65
	36"	5TU55
	72"	4ETN2
7/16 x 7/16"	12"	5UE67
	36"	5TU58
1/2 x 1/2"	12"	5UE69
	36"	5TU61
	72"	4ETN4
9/16 x 9/16"	12"	5UE71
5/8 x 5/8"	12"	5UE73
	36"	5TU64
3/4 x 3/4"	12"	5UE75
	36"	5TU67
7/8 x 7/8"	12"	5UE77
	36"	5TU70
1 x 1"	12"	5UE79
	36"	5TU73
1 1/4 x 1 1/4"	12"	5UE81
1 1/2 x 1 1/2"	12"	5UE83
1 3/4 x 1 3/4"	12"	5UE85
2 x 2"	12"	5UE87
5 x 5mm	1m	5UB40
316 Stainless Steel, Plain Finish		
3/16 x 3/16"	12"	5UE17
	36"	5VV40
1/4 x 1/4"	12"	5UE19
	36"	5VV42
5/16 x 5/16"	12"	5UE21
	36"	5VV44
3/8 x 3/8"	12"	5UE23
	36"	5VV46
1/2 x 1/2"	12"	5UE25
	36"	5VV48
5/8 x 5/8"	12"	5UE27
	36"	5VV50
3/4 x 3/4"	12"	5UE29
	36"	5VV52
1 x 1"	12"	5UE31
2 x 2mm	12"	5VV96
3 x 3mm	12"	5VV98
4 x 4mm	12"	5VY10
5 x 5mm	12"	5VY12
6 x 6mm	12"	5VY14
7 x 7mm	12"	5VY16
8 x 8mm	12"	5VY18
10 x 10mm	12"	5VY20
12 x 12mm	12"	5VY21
14 x 14mm	12"	5VY23
16 x 16mm	12"	5VY25
416 Stainless Steel, Plain Finish		
3/16 x 3/16"	12"	5UB93
1/4 x 1/4"	12"	5UB95
5/16 x 5/16"	12"	5UB97
3/8 x 3/8"	12"	5UB99
1/2 x 1/2"	12"	5UE11
5/8 x 5/8"	12"	5UE13
3/4 x 3/4"	12"	5UE15
A4 Stainless Steel, Plain Finish		
3 x 3mm	1m	5UB72
4 x 4mm	1m	5UB38
	12"	5UA96
5 x 5mm	1m	5UB76
	12"	5UA98
6 x 6mm	1m	5UB42
	12"	5UB10
7 x 8mm	1m	5UB46
7 x 7mm	1m	5UB80
	12"	5UB12
7 x 8mm	12"	5UB14
8 x 8mm	12"	5UB16
8 x 10mm	12"	5UB18
8 x 12mm	12"	5UB20
9 x 14mm	12"	5UB22
10 x 10mm	12"	5UB24
12 x 12mm	12"	5UB26
14 x 14mm	12"	5UB28
16 x 16mm	12"	5UB30
18 x 18mm	12"	5UB32
20 x 20mm	12"	5UB34
Low Carbon Steel, Plain Finish		
1/8 x 1/8"	36"	5TU76
3/16 x 3/16"	36"	5TU79
	72"	4ETG6
1/4 x 1/4"	36"	5TU82
	72"	4ETG7
5/16 x 5/16"	36"	5TU85
	72"	4ETG8
3/8 x 3/8"	36"	5TU88
	72"	4ETG9
7/16 x 7/16"	36"	5TU91
	72"	4ETH1
1/2 x 1/2"	36"	5TU94
	72"	4ETH2
9/16 x 9/16"	36"	5TU97
5/8 x 5/8"	36"	5TY10
	72"	4ETH4
3/4 x 3/4"	36"	5TY13
	72"	4ETH5
7/8 x 7/8"	36"	5TY16
1 x 1"	36"	5TY19
	72"	4ETH7
1 1/4 x 1 1/4"	36"	5TY22
	72"	4ETH8
1 1/2 x 1 1/2"	36"	5TY25
	72"	4ETH9
18 x 32mm	1m	5UA10
20 x 20mm	1m	5UA12
Low Carbon Steel, Zinc Finish		
1/8 x 1/8"	12"	5VU27
1/8 x 3/16"	12"	5VU30
1/8 x 1/4"	12"	5VU33
1/8 x 1/8"	36"	4ETJ1
3/16 x 3/16"	12"	5VU36
3/16 x 1/4"	12"	5VU39
3/16 x 5/16"	12"	5VU42
3/16 x 3/8"	12"	5VU45
3/16 x 3/16"	36"	4ETJ3
1/4 x 1/4"	12"	5VU48
1/4 x 5/16"	12"	5VU51
1/4 x 3/8"	12"	5VU53
1/4 x 1/2"	12"	5VU59
1/4 x 1/4"	36"	4ETJ5
	72"	4ETJ6
5/16 x 5/16"	12"	5VU62
5/16 x 3/8"	12"	5VU65
5/16 x 1/2"	12"	5VU68
5/16 x 5/8"	12"	5VU71
5/16 x 5/16"	36"	4ETJ7
3/8 x 3/8"	12"	5VU74
3/8 x 7/16"	12"	5VU77
3/8 x 1/2"	12"	5VU80
3/8 x 5/8"	12"	5VU84
3/8 x 3/8"	36"	4ETJ9
	72"	4ETK1
7/16 x 7/16"	12"	5VU86
7/16 x 1/2"	12"	5VU89
7/16 x 7/16"	36"	4ETK2
1/2 x 1/2"	12"	5VU93
1/2 x 5/8"	12"	5VU96
1/2 x 1/2"	36"	4ETK4
	72"	4ETK5
9/16 x 9/16"	12"	5VU99
	36"	4ETK6
5/8 x 5/8"	12"	5VV11
	36"	4ETK8
3/4 x 3/4"	12"	5VV14
	36"	4ETL1
7/8 x 7/8"	12"	5VV17
	36"	4ETL3
	72"	4ETL4
1 x 1"	12"	5VV21
	36"	4ETL5
1 1/8 x 1 1/8"	12"	5VV24
1 1/4 x 1 1/4"	12"	5VV27
1 1/2 x 1 1/2"	12"	5VV33
1 3/4 x 1 3/4"	12"	5VV36
2 x 2"	12"	5VV38
Medium Carbon Steel, Plain Finish		
4 x 4mm	1m	5TY34
5 x 5mm	1m	5TY37
5 x 8mm	1m	5TY40
6 x 6mm	1m	5TY43
7 x 7mm	1m	5TY55
7 x 8mm	1m	5TY58
8 x 8mm	1m	5TY64
8 x 10mm	1m	5TY66
8 x 12mm	1m	5TY68
9 x 14mm	1m	5TY72
10 x 10mm	1m	5TY76
10 x 12mm	1m	5TY78
10 x 16mm	1m	5TY80
11 x 18mm	1m	5TY82
12 x 12mm	1m	5TY84
12 x 20mm	1m	5TY86
14 x 14mm	1m	5TY88
14 x 22mm	1m	5TY90
14 x 25mm	1m	5TY92
16 x 28mm	1m	5TY96
Medium Carbon Steel, Zinc Finish		
4 x 4mm	12"	5UA25
5 x 5mm	12"	5UA27
5 x 8mm	12"	5UA29
6 x 6mm	12"	5UA31
7 x 7mm	12"	5UA39
7 x 8mm	12"	5UA41
8 x 8mm	12"	5UA47
8 x 10mm	12"	5UA49
8 x 12mm	12"	5UA51
9 x 14mm	12"	5UA54
10 x 10mm	12"	5UA58
10 x 12mm	12"	5UA60
10 x 16mm	12"	5UA62
11 x 18mm	12"	5UA64
12 x 12mm	12"	5UA66
12 x 20mm	12"	5UA68
14 x 14mm	12"	5UA70
14 x 22mm	12"	5UA72
14 x 25mm	12"	5UA74
16 x 16mm	12"	5UA76
18 x 18mm	12"	5UA80
18 x 32mm	12"	5UA82
20 x 20mm	12"	5UA84
22 x 22mm	12"	5UA88
25 x 25mm	12"	5UA92
25 x 28mm	12"	5UA94
Oversized		
18-8 Stainless Steel, Plain Finish		
1/8 x 1/8"	12"	5UE33
3/16 x 3/16"	12"	5UE35
1/4 x 1/4"	12"	5UE37
5/16 x 5/16"	12"	5UE39
3/8 x 3/8"	12"	5UE41
7/16 x 7/16"	12"	5UE43
1/2 x 1/2"	12"	5UE45
9/16 x 9/16"	12"	5UE47
5/8 x 5/8"	12"	5UE49
3/4 x 3/4"	12"	5UE51
7/8 x 7/8"	12"	5UE53
1 x 1"	12"	5UE55
4 x 4mm	12"	5VY28
5 x 5mm	12"	5VY30
6 x 6mm	12"	5VY32
7 x 7mm	12"	5VY34
7 x 8mm	12"	5VY36
8 x 8mm	12"	5VY38
8 x 10mm	12"	5VY40
8 x 12mm	12"	5VY42
9 x 14mm	12"	5VY44
10 x 10mm	12"	5VY46
12 x 12mm	12"	5VY48
14 x 14mm	12"	5VY50
16 x 16mm	12"	5VY52
18 x 18mm	12"	5VY54
20 x 20mm	12"	5VY56
22 x 22mm	12"	5VY58
24 x 24mm	12"	5VY60
Alloy Steel, Plain Finish		
3/16 x 3/16"	12"	5UU51
1/4 x 1/4"	12"	5UU53
5/16 x 5/16"	12"	5UU56
3/8 x 3/8"	12"	5UU59
1/2 x 1/2"	12"	5UU62
Low Carbon Steel, Plain Finish		
3/32 x 3/32"	12"	5UY18
	36"	5VV58
1/8 x 1/8"	12"	5UY21
	36"	5VV60
3/16 x 3/16"	12"	5UY27
	36"	5VV64
1/4 x 1/4"	12"	5UY33
	36"	5VV68
9/32 x 9/32"	12"	5UY36
5/16 x 5/16"	12"	5UY39
	36"	5VV72
3/8 x 3/8"	12"	5UY42
	36"	5VV74
7/16 x 7/16"	12"	5UY45
	36"	5VV76
1/2 x 1/2"	12"	5UY48
	36"	5VV78
9/16 x 9/16"	12"	5UY51
5/8 x 5/8"	12"	5UY54
	36"	5VV81
11/16 x 11/16"	36"	5VV83
3/4 x 3/4"	12"	5UY60
	36"	5VV85
7/8 x 7/8"	12"	5UY66
	36"	5VV90
1 x 1"	12"	5UY69
	36"	5VV92
1 1/4 x 1 1/4"	36"	5VV94
Low Carbon Steel, Zinc Finish		
1/8 x 1/8"	12"	5UY78
1/8 x 3/16"	12"	5UY81
1/8 x 1/4"	12"	5UY84
5/32 x 5/32"	12"	5UY99
3/16 x 3/16"	12"	5VA12
3/16 x 1/4"	12"	5VA15
3/16 x 1/2"	12"	5VA27
1/4 x 1/4"	12"	5VA39
1/4 x 5/16"	12"	5VA42
1/4 x 3/8"	12"	5VA45
1/4 x 1/2"	12"	5VA51
5/16 x 5/16"	12"	5VA66
5/16 x 3/8"	12"	5VA69
3/8 x 3/8"	12"	5VA87
3/8 x 1/2"	12"	5VA93
3/8 x 5/8"	12"	5VA99
3/8 x 3/4"	12"	5VB12
7/16 x 7/16"	12"	5VB18
7/16 x 1/2"	12"	5VB21
7/16 x 5/8"	12"	5VB28
7/16 x 3/4"	12"	5VB30
1/2 x 1/2"	12"	5VB34
1/2 x 9/16"	12"	5VB37
1/2 x 5/8"	12"	5VB40
1/2 x 3/4"	12"	5VB46
1/2 x 7/8"	12"	5VB49
1/2 x 1"	12"	5VB53
9/16 x 9/16"	12"	5VB55
9/16 x 5/8"	12"	5VB58
9/16 x 3/4"	12"	5VB61
5/8 x 5/8"	12"	5VB71
5/8 x 3/4"	12"	5VB76
5/8 x 7/8"	12"	5VB80
5/8 x 1"	12"	5VB83
11/16 x 11/16"	12"	5VB88
11/16 x 7/8"	12"	5VB94
3/4 x 3/4"	12"	5VE10
3/4 x 7/8"	12"	5VE13
3/4 x 1"	12"	5VE16
3/4 x 1 1/8"	12"	5VE19
3/4 x 1 1/2"	12"	5VE25
13/16 x 13/16"	12"	5VE31
7/8 x 7/8"	12"	5VE34
7/8 x 1 1/4"	12"	5VE41
1 x 1"	12"	5VE49
1 x 1 1/8"	12"	5VE53
1 x 1 1/4"	12"	5VE57
1 x 1 1/2"	12"	5VE61
1 x 2"	12"	5VE65
1 1/16 x 1 1/16"	12"	5VE69
1 1/8 x 1 1/8"	12"	5VE72
1 1/8 x 1 1/4"	12"	5VE75
1 1/4 x 1 1/4"	12"	5VE81
1 1/4 x 1 3/4"	12"	5VE90
1 5/16 x 1 5/16"	12"	5VE93
1 1/2 x 1 1/2"	12"	5VE99
1 1/2 x 1 3/4"	12"	5VU12
1 1/2 x 2"	12"	5VU15
1 3/8 x 1 3/8"	12"	5VU18
1 3/4 x 1 3/4"	12"	5VU21
4 x 4mm	12"	5VY62
5 x 5mm	12"	5VY64
6 x 6mm	12"	5VY68
6 x 10mm	12"	5VY70
6 x 14mm	12"	5VY74
7 x 7mm	12"	5VY76
7 x 8mm	12"	5VY78
7 x 18mm	12"	5VY82
8 x 8mm	12"	5VY84
8 x 10mm	12"	5VY86
8 x 12mm	12"	5VY88
9 x 14mm	12"	5VY92
10 x 10mm	12"	5VY96
10 x 12mm	12"	5VY98
10 x 16mm	12"	5WA10
11 x 18mm	12"	5WA12
12 x 12mm	12"	5WA14
12 x 20mm	12"	5WA16
14 x 14mm	12"	5WA18
14 x 22mm	12"	5WA20
16 x 16mm	12"	5WA24
16 x 28mm	12"	5WA26
18 x 18mm	12"	5WA28
18 x 32mm	12"	5WA30
20 x 20mm	12"	5WA32
22 x 22mm	12"	5WA36
25 x 25mm	12"	5WA40
Bilateral Tolerance		
18-8 Stainless Steel, Plain Finish		
3/16 x 1/4"	12"	5UE89
1/4 x 1/2"	12"	5UE93
3/8 x 1/2"	12"	5UE95
1/2 x 3/4"	12"	5UE99
5/8 x 3/4"	12"	5UU11
5/8 x 1"	12"	5UU13
3/4 x 1"	12"	5UU15
Aluminum, Plain Finish		
1/4 x 1/4"	12"	5UU41
3/8 x 3/8"	12"	5UU47
Brass, Plain Finish		
3/16 x 3/16"	12"	5UU19
1/4 x 1/4"	12"	5UU21
5/16 x 5/16"	12"	5UU23
3/8 x 3/8"	12"	5UU25
7/16 x 7/16"	12"	5UU27
1/2 x 1/2"	12"	5UU29
3/8 x 3/8"	12"	5UU31
1 x 1"	12"	5UU35
1 1/4 x 1 1/4"	12"	5UU37
High Carbon Steel, Plain Finish		
1/16 x 1/16"	12"	5UU65
3/32 x 3/32"	12"	5UU68
1/8 x 1/8"	12"	5UU71
3/16 x 3/16"	12"	5UU74
1/4 x 1/4"	12"	5UU77
5/16 x 5/16"	12"	5UU80
3/8 x 3/8"	12"	5UU83
7/16 x 7/16"	12"	5UU86
1/2 x 1/2"	12"	5UU90
5/8 x 5/8"	12"	5UU93
3/4 x 3/4"	12"	5UU96
7/8 x 7/8"	12"	5UU99
1 x 1"	12"	5UY12

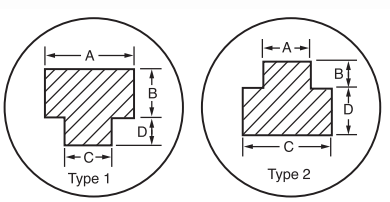


Step Key Stock

Zinc-plated 1018 grade carbon steel key stock works on couplings, sheaves, sprockets and pulleys.

Use Type 1 for repair and salvage of damaged keys in shafts.

Use Type 2 when mating mismatched keyways, gears, and shafts.



Dimensions A	B	C	D	Item No.
Type 1 - 12" Length				
3/16"	3/32"	1/8"	1/16"	5WA44
3/8"	3/16"	3/16"	1/8"	5WA46
	3/16"	5/16"	5/32"	5WA48
1/2"	1/4"	7/16"	5/32"	5WA50
5/8"	5/16"	3/8"	3/16"	5WA52
3/4"	3/8"	1/2"	1/4"	5WA54
	3/8"	5/8"	3/16"	5WA56
	3/8"	5/8"	5/16"	5WA58
1"	1/2"	7/8"	7/16"	5WA60
Type 2 - 12" Length				
3/16"	3/32"	1/4"	3/32"	5WA62
	3/32"	1/4"	1/8"	5WA64

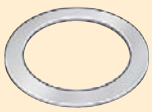
Dimensions A	B	C	D	Item No.
1/4"	1/8"	5/16"	1/8"	5WA66
	1/8"	3/8"	1/8"	5WA68
	1/8"	3/8"	3/16"	5WA70
3/8"	3/16"	7/16"	5/32"	5WA72
	3/16"	1/2"	3/16"	5WA74
	3/16"	1/2"	1/4"	5WA76
1/2"	1/4"	9/16"	3/16"	5WA78
	1/4"	5/8"	3/16"	5WA80
	1/4"	5/8"	5/16"	5WA82
	1/4"	1 1/16"	1/4"	5WA84
5/8"	5/16"	1 1/16"	1/4"	5WA86
3/4"	3/8"	7/8"	7/16"	5WA88
	3/8"	1"	1/2"	5WA90

Shim Information

Shims are precisely gauged in multiple thicknesses to provide accurate spacing for a variety of uses:

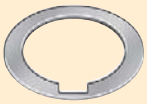
- Equipment leveling during installation
- Tool and die setup and alignment
- Machine assembly, repair, and maintenance
- Mounting, leveling, and aligning motors and pumps

SHIM TYPES



Arbor Shims

Preformed shims that provide accurate spacing of grinding tools, saws, gang cutters, slitting blades, and milling cutters. Do not have keyways.



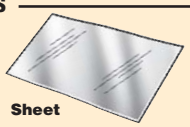
Arbor Spacers

Preformed, notched shims that fit over shaft keys to hold the shim or bushing in place. Keyways conform to American standards.



Thickness Gauges

Narrow shims that are used whenever it is required to set close spacing or to check extremely tight tolerances.



Sheet



Roll



Slotted Shim

Slotted Shim with Tab

Shim Stock

Easy to form and fabricate, shim **Rolls** or **Sheets** can be cut, stamped, bored, milled, sheared, and drilled into almost any shape required to make custom shims.

Slotted Shims

Help solve alignment and leveling problems, and eliminate misalignment of expensive machines. End tabs help prevent workers from placing hands under machinery.

Shim Stock—Rolls

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Shim Thickness	Shim Width	Shim Length	Item No.
GA			
302 Stainless Steel			
0.0010"	6"	100"	**36D824**
0.0020"	6"	100"	**36D825**
0.0030"	6"	100"	**36D826**
0.0040"	6"	100"	**36D827**
0.0050"	6"	100"	**36D828**
0.0060"	6"	100"	**36D829**
0.0070"	6"	100"	**36D830**
0.0100"	6"	100"	**36D833**
0.0120"	6"	100"	**36D834**
0.0150"	6"	100"	**36D835**
0.0200"	6"	100"	**36D836**
0.0250"	6"	100"	**36D837**
0.0310"	6"	100"	**36D838**
316 Stainless Steel			
0.0020"	6"	50"	**36D796**
0.0020"	6"	100"	**36D806**
0.0020"	12"	50"	**36D815**
0.0030"	6"	50"	**36D797**
0.0030"	12"	50"	**36D816**
0.0040"	6"	50"	**36D798**
0.0040"	12"	50"	**36D817**
0.0050"	6"	50"	**36D799**
0.0050"	12"	50"	**36D818**
0.0100"	6"	50"	**36D802**
0.0100"	6"	100"	**36D811**
0.0100"	12"	50"	**36D820**
0.0150"	6"	50"	**36D803**
0.0150"	12"	50"	**36D821**
0.0200"	6"	50"	**36D804**
0.0200"	6"	100"	**36D813**
0.0200"	12"	50"	**36D822**
0.0250"	6"	50"	**36D805**
0.0250"	12"	50"	**36D823**

★GA GRAINGER APPROVED PRECISION BRAND

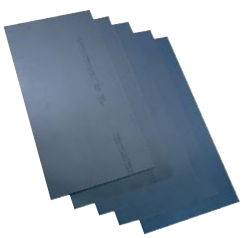
Shim Thickness	Shim Width	Shim Length	Item No.
Precision Brand			
1008-1010 Steel			
0.0010"	6"	100"	**3L432**
0.0010"	6"	180"	**5EY10**
0.0010"	12"	120"	**5EU79**
0.0015"	6"	100"	**3L434**
0.0020"	6"	100"	**3L436**
0.0020"	6"	180"	**5EY18**
0.0020"	12"	120"	**5EU80**
0.0030"	6"	100"	**3L441**
0.0030"	6"	180"	**5EY23**
0.0030"	12"	120"	**5EU81**
0.0035"	6"	100"	**3L443**
0.0040"	6"	100"	**3L445**
0.0040"	6"	180"	**5EY26**
0.0040"	12"	120"	**5EU82**
0.0050"	6"	100"	**3L447**
0.0050"	6"	180"	**5EY27**
0.0050"	12"	120"	**5EU83**
0.0060"	6"	100"	**3L449**
0.0060"	6"	180"	**5EY28**
0.0060"	12"	120"	**5EU84**
0.0070"	6"	100"	**3L452**
0.0070"	12"	120"	**5EU85**
0.0079"	150.00mm	2.50m	**5EY59**
0.0080"	6"	100"	**3L454**
0.0080"	6"	180"	**5EY30**
0.0080"	12"	120"	**5EU86**
0.0090"	6"	100"	**3L456**
0.0090"	12"	120"	**5EU87**
0.0100"	6"	100"	**3L458**
0.0100"	6"	180"	**5EY12**
0.0100"	12"	120"	**5EU88**
0.0120"	6"	100"	**3L461**
0.0150"	6"	100"	**3L465**
0.0150"	6"	180"	**5EY15**
0.0150"	12"	120"	**5EU92**
0.0180"	6"	100"	**3L469**
0.0200"	6"	100"	**3L472**



Shim Thickness	Shim Width	Shim Length	Item No.
0.0200"	6"	180"	**5EY20**
0.0200"	12"	120"	**5EU95**
0.0220"	6"	100"	**3L474**
0.0250"	6"	100"	**3L476**
0.0250"	6"	180"	**5EY22**
0.0250"	12"	120"	**5EU97**
0.0310"	6"	100"	**3L478**
0.0310"	6"	180"	**5EY25**
0.0310"	12"	120"	**5EU99**
1095 Steel			
0.0020"	3"	50"	**3L707**
0.0030"	3"	50"	**3L709**
0.0040"	5"	50"	**3L711**
0.0050"	6"	50"	**3L713**
0.0060"	6"	50"	**3L715**
0.0070"	6"	50"	**3L717**
110 Copper			
0.0010"	6"	100"	**5HA12**
0.0020"	6"	100"	**5HA13**
0.0030"	6"	100"	**5HA14**
0.0040"	6"	100"	**5HA15**
0.0050"	6"	100"	**5HA16**
0.0060"	6"	100"	**5HA17**
0.0080"	6"	100"	**5HA19**
0.0100"	6"	100"	**5HA20**
260 Brass			
0.0010"	6"	100"	**3L485**
0.0010"	6"	180"	**5EY83**
0.0010"	12"	120"	**5EY66**
0.0015"	6"	100"	**3L487**
0.0020"	6"	100"	**3L489**

Shim Thickness	Shim Width	Shim Length	Item No.
0.0020"	6"	180"	**5EY88**
0.0020"	12"	120"	**5EY67**
0.0030"	6"	100"	**3L492**
0.0030"	6"	180"	**5EY91**
0.0030"	12"	120"	**5EY68**
0.0039"	150.00mm	2.50m	**5FA28**
0.0040"	6"	100"	**3L494**
0.0040"	6"	180"	**5EY93**
0.0050"	6"	100"	**3L496**
0.0050"	6"	180"	**5EY94**
0.0050"	12"	120"	**5EY70**
0.0060"	6"	100"	**3L498**
0.0060"	6"	180"	**5EY95**
0.0070"	6"	100"	**3L501**
0.0079"	150.00mm	2.50m	**5FA30**
0.0080"	6"	100"	**3L503**
0.0080"	6"	180"	**5EY97**
0.0080"	12"	120"	**5EY72**
0.0090"	6"	100"	**3L505**
0.0100"	6"	100"	**3L507**
0.0100"	6"	180"	**5EY85**
0.0100"	12"	120"	**5EY73**
0.0120"	6"	100"	**3L509**
0.0120"	12"	120"	**5EY74**
0.0150"	6"	100"	**3L512**
0.0150"	6"	180"	**5EY87**
0.0150"	12"	120"	**5EY75**
0.0180"	6"	100"	**5EY79**
0.0197"	150.00mm	2.50m	**5FA34**
0.0200"	6"	100"	**3L514**
0.0200"	6"	180"	**5EY89**
0.0200"	12"	120"	**5EY76**
0.0250"	6"	100"	**3L516**
0.0250"	6"	180"	**5EY90**
0.0310"	6"	100"	**3L518**
0.0310"	6"	180"	**5EY92**
0.0315"	150.00mm	2.50m	**5FA36**
302 Stainless Steel			
0.0005"	6"	50"	**3L596**
0.0010"	6"	50"	**3L598**
0.0010"	12"	50"	**5FA37**
0.0015"	6"	50"	**3L601**

Shim Thickness	Shim Width	Shim Length	Item No.
0.0020"	6"	50"	**3L603**
0.0020"	12"	50"	**5FA38**
0.0020"	150.00mm	1.25m	**5FA56**
0.0030"	6"	50"	**3L605**
0.0030"	12"	50"	**5FA39**
0.0039"	150.00mm	1.25m	**5FA57**
0.0040"	6"	50"	**3L607**
0.0040"	12"	50"	**5FA40**
0.0050"	6"	50"	**3L609**
0.0050"	12"	50"	**5FA41**
0.0059"	150.00mm	1.25m	**5FA58**
0.0060"	6"	50"	**3L685**
0.0060"	12"	50"	**5FA42**
0.0070"	6"	50"	**3L687**
0.0070"	12"	50"	**5FA43**
0.0079"	150.00mm	1.25m	**5FA59**
0.0080"	6"	50"	**3L689**
0.0080"	12"	50"	**5FA44**
0.0090"	6"	50"	**3L691**
0.0100"	6"	50"	**3L693**
0.0100"	12"	50"	**5FA45**
0.0118"	150.00mm	1.25m	**5FA61**
0.0120"	6"	50"	**3L695**
0.0120"	12"	50"	**5FA46**
0.0150"	6"	50"	**3L697**
0.0150"	12"	50"	**5FA47**
0.0157"	150.00mm	1.25m	**5FA62**
0.0197"	150.00mm	1.25m	**5FA63**
0.0200"	6"	50"	**3L699**
0.0200"	12"	50"	**5FA48**
0.0250"	6"	50"	**3L701**
0.0256"	150.00mm	1.25m	**5FA64**
0.0310"	6"	50"	**3L703**
0.0315"	150.00mm	1.25m	**5FA65**
H18/H19 Aluminum			
0.0020"	6"	100"	**5HA22**
0.0030"	6"	100"	**5HA23**
0.0040"	6"	100"	**5HA24**
0.0050"	6"	100"	**5HA25**
0.0060"	6"	100"	**5HA26**
0.0080"	6"	100"	**5HA27**
0.0100"	6"	100"	**5HA28**



PRECISION BRAND

Metal Shim Stock—Sheets

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Shim Thickness	Shim Width	Shim Length	Thickness Tolerance	Item No.	Pkg. Qty.
1008-1010 Low Carbon Steel					
0.0010"	6"	18"	±0.0001"	**5EY32**	10
0.0015"	6"	18"	±0.00015"	**5EY33**	10
0.0020"	6"	18"	±0.0002"	**5EY34**	10
0.0025"	6"	18"	±0.00025"	**5EY35**	10
0.0030"	6"	18"	±0.0003"	**5EY36**	10
0.0035"	6"	18"	±0.0005"	**5EY37**	10
0.0040"	6"	18"	±0.0005"	**5EY38**	10
0.0050"	6"	18"	±0.0005"	**5EY39**	10
0.0060"	6"	18"	±0.0005"	**5EY40**	10
0.0070"	6"	18"	±0.00075"	**5EY41**	10
0.0080"	6"	18"	±0.00075"	**5EY42**	10
0.0100"	6"	18"	±0.00075"	**5EY44**	10
0.0120"	6"	18"	±0.00075"	**5EY45**	10
0.0120"	6"	25"	±0.00075"	**5EU89**	2
0.0150"	6"	18"	±0.00075"	**5EY47**	10
0.0150"	6"	25"	±0.00075"	**5EU91**	2
0.0180"	6"	18"	±0.00075"	**5EY49**	10
0.0200"	6"	18"	±0.001"	**5EY50**	10
0.0200"	6"	25"	±0.001"	**5EU94**	2
0.0250"	6"	18"	±0.001"	**5EY52**	10

Shim Thickness	Shim Width	Shim Length	Thickness Tolerance	Item No.	Pkg. Qty.
0.0250"	6"	25"	±0.001"	**5EU96**	2
0.0310"	6"	18"	±0.0015"	**5EY53**	10
0.0310"	6"	25"	±0.0015"	**5EU98**	2
1095 Blue Tempered Spring Steel					
0.0080"	6"	25"	±0.00075"	**3L719**	2
0.0100"	6"	25"	±0.001"	**3L721**	2
0.0120"	6"	25"	±0.001"	**3L723**	2
0.0150"	6"	25"	±0.0015"	**3L725**	2
0.0200"	6"	25"	±0.002"	**3L727**	2
0.0250"	6"	25"	±0.002"	**3L729**	2
0.0320"	6"	25"	±0.002"	**3L731**	2
260 Alloy Brass					
0.0010"	6"	18"	±0.0001"	**5EY99**	10
0.0015"	6"	18"	±0.00015"	**5FA10**	10
0.0020"	6"	18"	±0.0002"	**5FA11**	10
0.0030"	6"	18"	±0.0003"	**5FA12**	10
0.0040"	6"	18"	±0.0003"	**5FA13**	10
0.0050"	6"	18"	±0.0004"	**5FA14**	10
0.0070"	6"	18"	±0.0006"	**5FA16**	10
0.0080"	6"	18"	±0.0006"	**5FA17**	10
0.0090"	6"	18"	±0.0006"	**5FA18**	10

Shim Thickness	Shim Width	Shim Length	Thickness Tolerance	Item No.	Pkg. Qty.
0.0100"	6"	18"	±0.0008"	**5FA19**	10
0.0120"	6"	18"	±0.0008"	**5FA20**	10
0.0120"	6"	25"	±0.0008"	**5EY77**	2
0.0150"	6"	18"	±0.0010"	**5FA21**	10
0.0150"	6"	25"	±0.0010"	**5EY78**	2
0.0200"	6"	18"	±0.0013"	**5FA22**	10
0.0200"	6"	25"	±0.0013"	**5EY80**	2
0.0250"	6"	18"	±0.002"	**5FA23**	10
0.0250"	6"	25"	±0.002"	**5EY81**	2
0.0310"	6"	18"	±0.002"	**5FA24**	10
0.0310"	6"	25"	±0.002"	**5EY82**	2
302 Stainless Steel					
0.0080"	6"	25"	±0.0008"	**5FA49**	2
0.0100"	6"	25"	±0.001"	**5FA50**	2
0.0120"	6"	25"	±0.001"	**5FA51**	2
0.0150"	6"	25"	±0.001"	**5FA52**	2
0.0200"	6"	25"	±0.0015"	**5FA53**	2
0.0250"	6"	25"	±0.0015"	**5FA54**	2
0.0250"	12"	24"	±0.0015"	**5FA66**	2
0.0310"	6"	25"	±0.002"	**5FA55**	2
0.0310"	12"	24"	±0.002"	**5FA67**	2

PRECISION BRAND

Plastic Shim Stock—14-Pc. Sheet Assortments

- Contain 1 pc. of each thickness
- Easy to cut, oil-resistant, and nonconductive to electricity

Each thickness is indicated by a different shim color. Thickness tolerances to industry standards. Use for gaskets, special parts, and various manufacturing applications.



POLYESTER		PVC	
Color	Shim Thickness	Color	Shim Thickness
Silver	0.0005"	Matte	0.0075"
Amber	0.0010"	Brown	0.0100"
Purple	0.0015"	Black	0.0125"
Red	0.0020"	Pink	0.0150"
Green	0.0030"	Yellow	0.0200"
Tan	0.0040"	White	0.0250"
Blue	0.0050"	Coral	0.0300"

Shim Width	Shim Length	Item No.
5"	20"	3L881
10"	20"	3L883
20"	20"	3L885

PRECISION BRAND

Plastic Shim Stock—Sheets

- Minimal compression during use
- Easy to cut, oil-resistant, and nonconductive to electricity

Thickness is indicated by color, eliminating need for a micrometer. For light-duty alignments.

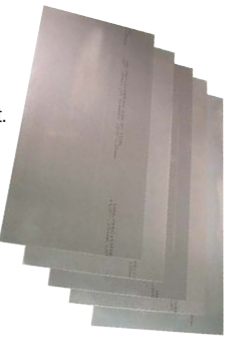


Shim Thickness	Color	5" x 20" PACKS Item No.	5" x 20" PACKS Pkg. Qty.	10" x 20" SHEETS Item No.	10" x 20" SHEETS Pkg. Qty.	10" x 20" PACKS Item No.	10" x 20" PACKS Pkg. Qty.
0.0005"	Silver	5GE80	5	5GE63	1	5GE97	5
0.0010"	Amber	5GE81	5	5GE64	1	5GE98	5
0.0015"	Purple	5GE82	5	5GE65	1	5GE99	5
0.0020"	Red	5GE83	5	5GE66	1	5GU10	5
0.0030"	Green	5GE84	5	5GE67	1	5GU11	5
0.0040"	Tan	5GE85	10	5GE68	1	5GU12	10
0.0050"	Blue	5GE86	10	5GE69	1	5GU13	10
0.0075"	Matte	5GE87	10	5GE70	1	5GU14	10
0.0100"	Brown	5GE88	10	5GE71	1	5GU15	10
0.0125"	Black	5GE89	10	5GE72	1	5GU16	10
0.0150"	Pink	5GE90	10	5GE73	1	5GU17	10
0.0200"	Yellow	5GE91	10	5GE74	1	5GU18	10
0.0250"	White	5GE92	10	5GE75	1	5GU19	10
0.0300"	Coral	5GE93	10	5GE76	1	5GU20	10
0.0400"	Clear	5GE94	3	5GE77	1	5GU21	3
0.0500"	Clear	5GE95	3	5GE78	1	5GU22	3
0.0600"	Clear	5GE96	3	5GE79	1	5GU23	3

PRECISION BRAND

Metal Shim Stock—Sheet Assortments

Thickness and lot numbers printed on every sheet.



Shim Thickness	6-Piece	8-Piece	12-Piece	15-Piece
0.0010"	—	X	X	X
0.0015"	—	—	X	X
0.0020"	—	X	X	X
0.0030"	—	X	X	X
0.0040"	—	—	X	X
0.0050"	X	X	X	X
0.0060"	—	—	X	X
0.0070"	—	—	X	X
0.0080"	—	X	X	X
0.0100"	X	X	X	X
0.0120"	—	—	X	X
0.0150"	X	X	X	X
0.0200"	X	X	—	X
0.0250"	X	—	—	X
0.0310"	—	—	—	X
0.0320"	X	—	—	—

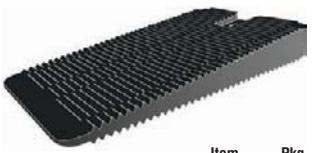
Material	Pieces	6 x 12" Item No.	6 x 18" Item No.
302 Stainless Steel	8	3L705	—
Low Carbon Steel	12	3L481	5EY54
	15	3L483	5EY55
260 Alloy Brass	12	3L521	5FA25
	15	3L523	5FA26
Blue Tempered Spring Steel	6	3L733	—

PRECISION BRAND

Wedgies™ Shims

- Size: 1.150" x 1.92"
- Thickness: 0.033" to 0.250"

Interlocking horizontal and vertical ridges keep shims in-place and allow for small, precise adjustments. Nail or fasten in-place through a hole in the top-center of the shim.



Description	Item No.	Pkg. Qty.
Flexible, White	4NFJ2	30
Color	4NFJ1	200
Rigid, Black Color	4NFH9	30
	4NFH8	200



High-Carbon Spring Steel
No. 5XE66

PRECISION BRAND

Thickness Gage Assortments

All blades except plastic are etched with English and metric thickness measurements. Steel, brass, and stainless steel blades come packed in individual blade pockets; plastic blades are riveted together.

Plastic—Noncorrosive, nonconductive, nonsparking, and nonmarring; blades are color-coded by thickness and riveted together.

High-Carbon Spring Steel—With rounded ends and smooth edges.

260 Alloy Brass—Nonmagnetic, nonsparking blades made from 260 alloy. With rounded ends and smooth edges.

301 Stainless Steel—Corrosion-resistant stainless steel is a good conductor, slightly magnetic, and withstands high temperatures.

		Assortments Include					
Thickness (In.)	Thickness (mm)	No. 5XU51	No. 5XE66	No. 5XB99	No. 5XU53	No. 5XE75	No. 5XU52
0.0010	0.025	2	1	1	1	1	1
0.0015	0.038	2	1	1	1	1	1
0.0020	0.051	2	1	1	1	1	1
0.0030	0.076	2	1	1	1	1	1
0.0040	0.102	1	1	1	1	1	1
0.0050	0.127	1	1	1	1	1	1
0.0060	0.152	1	1	1	—	1	—
0.0070	0.178	1	1	1	—	1	—
0.0075	0.191	—	—	—	1	—	1
0.0080	0.203	1	1	1	—	1	—
0.0090	0.229	1	1	1	—	1	—
0.0100	0.254	1	1	1	1	1	1
0.0120	0.305	1	1	1	—	1	—
0.0125	0.318	—	—	—	1	—	1
0.0140	0.356	—	1	1	—	1	—
0.0150	0.381	1	1	1	1	1	1
0.0160	0.406	—	1	1	—	1	—
0.0180	0.457	—	1	1	—	1	—
0.0200	0.508	1	1	1	1	1	1
0.0220	0.559	—	1	1	—	1	—
0.0240	0.610	—	1	—	—	—	—
0.0250	0.635	1	1	1	1	1	1
0.0300	0.762	—	—	1	1	1	1
0.0310	0.787	1	—	—	—	—	—

Material	No. of Pieces	Blade Length (in.)	Blade Width (in.)	Item No.
Plastic	13	5	½	5XU53
	13	12	½	5XU52
High-Carbon Spring Steel	20	5	½	5XE66
	20	12	½	5XE75
260 Alloy Brass	20	5	½	5XB99
301 Stainless Steel	20	5	½	5XU51



Arbor Spacer
No. 5FE86

Arbor Shims and Spacers

Use for fast, accurate spacing of milling cutters, gang cutters, saws, slitting blades, and grinding tools. Color-coded PVC Shims are made from a high-quality plastic material. Color coding eliminates need for micrometer, saves time, and reduces error. They are nonmagnetic, nonconductive, and corrosion resistant. High-quality Steel Shim is made from low-carbon, cold-rolled, full-hard, steel. Arbor Spacers are used for keyed applications. Save time over remachining. Packaged in airtight poly bag.

PRECISION BRAND

Shim Thickness	Thickness Tolerance	Color	Outside Dia.	Inside Dia.	Keyway Width	Keyway Depth	Item No.	Pkg. Qty.
Arbor Shim								
Not Rated PVC								
0.0125"	±0.000625"	Black	0.750"	0.500"	—	—	5GU46	10
1008-1010 Steel								
0.0100"	±0.00075"	Brown	0.625"	0.375"	—	—	5FY47	10
18-8 Stainless Steel								
0.0050"	±0.0005"	Blue	0.310"	0.206"	—	—	2JHH9	25
Arbor Spacer								
1008-1010 Steel								
0.0250"	±0.0015"	—	2.750"	1.750"	7/16"	3/16"	5FE81	10
0.0620"	±0.0025"	—	2.750"	1.750"	7/16"	3/16"	5FE84	10
0.1250"	±0.0030"	—	2.750"	1.750"	7/16"	3/16"	5FE86	10



A-2"x2", Full Kit 260 pcs.
No. 36D703

GA GRAINGER APPROVED

Slotted Shim Assortments

Used for aligning and leveling equipment. Hardened 302/304 stainless steel material resists rust and corrosion. Sizes A to D have a tab for easy gripping. Sizes E and H are not tabbed. 260-pc. and 130-pc. kits come packed in a latching metal box. 80-pc. kits come packed in a sturdy reusable carton.

Shim Trade Size	Shim Width	Shim Length	Slot Width	Slot Depth	Includes	Item No.
Without Tab						
52 pc.						
E	6"	6"	2"	4"	4 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D707**
H	8"	8"	2⅜"	6"		**36D708**
With Tab						
80 pc.						
A	2"	2"	⅝"	1⅜2"	10 Each of 0.001, 0.003, 0.005, 0.010, 0.015, 0.020, 0.025, and 0.075	**36D713**
B	3"	3"	⅞"	2⅛"		**36D714**
C	4"	4"	1¼"	2¾"		**36D715**
D	5"	5"	1⅝"	3⅛"		**36D716**
130 pc.						
A	2"	2"	⅝"	1⅜2"	10 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D709**
B	3"	3"	⅞"	2⅛"		**36D710**
C	4"	4"	1¼"	2¾"		**36D711**
D	5"	5"	1⅝"	3⅝"		**36D712**
260 pc.						
A	2"	2"	⅝"	1⅜2"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D703**
A, B, C, D	2", 3", 4", 5"	2", 3", 4", 5"	⅝", ⅞", 1¼", 1⅝"	1⅜2", 2⅛", 2¾", 3⅝"	5 each of size A, B, C, D in the following thicknesses: 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, 0.125	**36D717**
B	3"	3"	⅞"	2⅛"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D704**
C	4"	4"	1¼"	2¾"		**36D705**
D	5"	5"	1⅝"	3⅝"		**36D706**



MAUDLIN PRODUCTS
MW Industries, Inc.

Shim Stock Assortments

Slotted shims 0.001" through 0.031" have the tightest tolerances the industry can provide. Sizes 0.050" through 0.125" are made from re-rolled material, which reduces thickness tolerances to ±0.002". To prevent soft foot problems, 0.050" through 0.125" shims are quality processed to ensure flatness.

Shim Trade Size	Shim Width	Shim Length	Slot Width	Slot Depth	Includes	Item No.
With Tab						
260 pc.						
A	2"	2"	⅝"	1⅜2"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH3**
A, B, C, D	—	—	—	—	5 Each of sizes A,B,C,D 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZJ8**
B	3"	3"	⅞"	2⅛"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH4**
C	4"	4"	1¼"	2¾"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125, Metal Box, Shim Removal Tool, Shim Lock	**2NZH5**
D	5"	5"	1⅝"	3⅝"	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH6**
130 pc.						
A	2"	2"	⅝"	1⅜2"	10 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH9**
B	3"	3"	⅞"	2⅛"		**2NZJ1**
C	4"	4"	1¼"	2¾"		**2NZJ2**
D	5"	5"	1⅝"	3⅝"		**2NZJ3**
80 pc.						
A	2"	2"	⅝"	1⅜2"	10 Each of 0.001, 0.003, 0.005, 0.010, 0.015, 0.020, 0.025, and 0.075	**2NZJ4**
B	3"	3"	⅞"	2⅛"		**2NZJ5**
C	4"	4"	1¼"	2¾"		**2NZJ6**
D	5"	5"	1⅝"	3⅝"		**2NZJ7**
Without Tab						
52 pc.						
E	6"	6"	2"	4"	4 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH7**
H	8"	8"	2½"	6"		**2NZH8**

GA GRAINGER APPROVED

MAUDLIN PRODUCTS
MW Industries, Inc.

Individual Slotted Shims with Tabs

Stainless steel shims help improve motor, pump, generator, and other plant machinery alignment; won't rust or corrode. All sizes have tabs with holes, for easier, safer installation and removal. All shims conform to standard bolt and stud size. Each is marked with thickness in decimal and metric.



Shim Thickness	GA Slot Width	GA Slot Depth	GA Item No.	GA Pkg. Qty.	Maudlin Products Slot Width	Maudlin Products Slot Depth	Maudlin Products Item No.	Maudlin Products Pkg. Qty.
A-2" x 2"								
0.0010"	⅝"	1⅜2"	**36D718**	20	⅝"	1⅜2"	**2NZJ9**	20
0.0020"	⅝"	1⅜2"	**36D719**	20	⅝"	1⅜2"	**2NZK1**	20
0.0030"	⅝"	1⅜2"	**36D720**	20	⅝"	1⅜2"	**2NZK2**	20
0.0040"	⅝"	1⅜2"	**36D721**	20	⅝"	1⅜2"	**2NZK3**	20
0.0050"	⅝"	1⅜2"	**36D722**	20	⅝"	1⅜2"	**2NZK4**	20
0.0100"	⅝"	1⅜2"	**36D723**	20	⅝"	1⅜2"	**2NZK5**	20
0.0150"	⅝"	1⅜2"	**36D724**	20	⅝"	1⅜2"	**2NZK6**	20
0.0200"	⅝"	1⅜2"	**36D725**	20	⅝"	1⅜2"	**2NZK7**	20
0.0250"	⅝"	1⅜2"	**36D726**	20	⅝"	1⅜2"	**2NZK8**	20
0.0500"	⅝"	1⅜2"	**36D727**	10	⅝"	1⅜2"	**2NZK9**	10
0.0750"	⅝"	1⅜2"	**36D728**	10	⅝"	1⅜2"	**2NZL1**	10
0.1000"	⅝"	1⅜2"	**36D729**	5	⅝"	1⅜2"	**2NZL2**	5
0.1250"	⅝"	1⅜2"	**36D730**	5	⅝"	1⅜2"	**2NZL3**	5
B-3" x 3"								
0.0010"	⅞"	2⅛"	**36D731**	20	⅞"	2⅛"	**2NZL4**	20
0.0020"	⅞"	2⅛"	**36D732**	20	⅞"	2⅛"	**2NZL5**	20
0.0030"	⅞"	2⅛"	**36D733**	20	⅞"	2⅛"	**2NZL6**	20
0.0040"	⅞"	2⅛"	**36D734**	20	⅞"	2⅛"	**2NZL7**	20
0.0050"	⅞"	2⅛"	**36D735**	20	⅞"	2⅛"	**2NZL8**	20
0.0100"	⅞"	2⅛"	**36D736**	20	⅞"	2⅛"	**2NZL9**	20
0.0150"	⅞"	2⅛"	**36D737**	20	⅞"	2⅛"	**2NZN1**	20
0.0200"	⅞"	2⅛"	**36D738**	20	⅞"	2⅛"	**2NZN2**	20
0.0250"	⅞"	2⅛"	**36D739**	20	⅞"	2⅛"	**2NZN3**	20
0.0500"	⅞"	2⅛"	**36D740**	10	⅞"	2⅛"	**2NZN4**	10
0.0750"	⅞"	2⅛"	**36D741**	10	⅞"	2⅛"	**2NZN5**	10
0.1000"	⅞"	2⅛"	**36D742**	5	⅞"	2⅛"	**2NZN6**	5
0.1250"	⅞"	2⅛"	**36D743**	5	⅞"	2⅛"	**2NZN7**	5

Shim Thickness	GA Slot Width	GA Slot Depth	GA Item No.	GA Pkg. Qty.	Maudlin Products Slot Width	Maudlin Products Slot Depth	Maudlin Products Item No.	Maudlin Products Pkg. Qty.
C-4" x 4"								
0.0010"	1¼"	2¾"	**36D744**	20	1¼"	2¾"	**2NZN8**	20
0.0020"	1¼"	2¾"	**36D745**	20	1¼"	2¾"	**2NZN9**	20
0.0030"	1¼"	2¾"	**36D746**	20	1¼"	2¾"	**2NZP1**	20
0.0040"	1¼"	2¾"	**36D747**	20	1¼"	2¾"	**2NZP2**	20
0.0050"	1¼"	2¾"	**36D748**	20	1¼"	2¾"	**2NZP3**	20
0.0100"	1¼"	2¾"	**36D749**	20	1¼"	2¾"	**2NZP4**	20
0.0150"	1¼"	2¾"	**36D750**	20	1¼"	2¾"	**2NZP5**	20
0.0200"	1¼"	2¾"	**36D751**	20	1¼"	2¾"	**2NZP6**	20
0.0250"	1¼"	2¾"	**36D752**	20	1¼"	2¾"	**2NZP7**	20
0.0500"	1¼"	2¾"	**36D753**	10	1¼"	2¾"	**2NZP8**	10
0.0750"	1¼"	2¾"	**36D754**	10	1¼"	2¾"	**2NZP9**	10
0.1000"	1¼"	2¾"	**36D755**	5	1¼"	2¾"	**2NZR1**	5
0.1250"	1¼"	2¾"	**36D756**	5	1¼"	2¾"	**2NZR2**	5

Aluminum Information

Soft, lightweight, corrosion-resistant alloy conducts both heat and electricity.

ALUMINUM TEMPERS

H14 (½ Hard)
Material is strain-hardened only (without additional thermal treatment) to a half-hard temper.

H22 (¼ Hard)
Material is strain-hardened and partially annealed to a quarter-hard condition.

H32 (¼ Hard)
Material is strain-hardened and mechanical properties are stabilized with supplementary thermal treatment to a quarter-hard temper.

T52
Material resists corrosion and can be formed, machined, and welded. Aluminum rods are lightweight and suitable for braces, cross members, frames, ornamental work, railings, and supports. Rods can be drilled, machined, punched, and sawed.

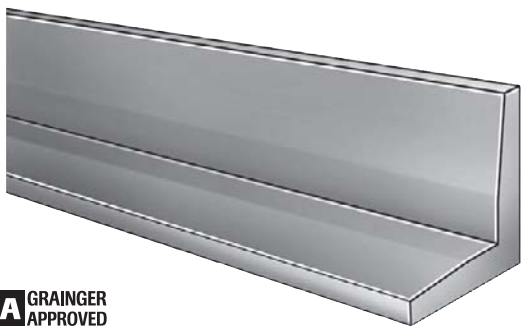
T6
Material is solution heat treated and then artificially aged.

T651
Material is solution heat treated, artificially aged, and then stretch-stress relieved. Refers to plates and cold-finished bars and rods.

T6511
Extruded material is solution heat treated, artificially aged, and then stretch-stress relieved.

Material	Tensile Strength* (psi)	Yield Strength* (psi)	Hardness* (BHN)	Corrosion Resistance	Wear Resistance	Formability	Machinability	Weldability
Alloy 2011	55,000	43,000	95	Poor	Fair	Fair	Excellent	Not Recommended
Alloy 2024	65,000 to 68,000	47,000	120	Poor	Good	Fair	Good	Fair
Alloy 3003	22,000 to 23,000	20,000 to 21,000	40	Excellent	Not Recommended	Good	Poor	Good
Alloy 5052	33,000	28,000	60	Excellent	Not Recommended	Good	Poor	Good
Alloy 6061	45,000	40,000	95	Good	Fair	Fair	Fair	Good
Alloy 6063	27,000	21,000	60	Good	Not Recommended	Good	Good	Good
Alloy 7075	73,000 to 83,000	63,000 to 73,000	150	Fair	Good	Poor	Good	Not Recommended

** Typical levels @ 1" dia.*



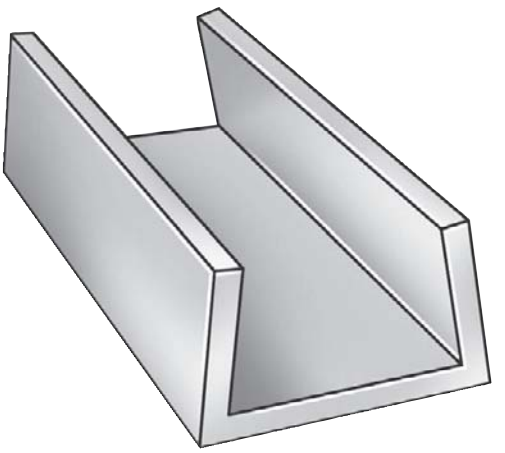
GA GRAINGER APPROVED

Aluminum—90° Angles

- 6061 standards: ASTM B308, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Leg Length	Leg Length Tolerance	Thickness Tolerance	4 FT. LENGTH Item No.	8 FT. LENGTH Item No.
Alloy 6061 -T6 Temper (Smooth Unpolished/Extruded)				
⅛" Thick				
¾"	±0.010"	±0.007"	—	2EYN8
1"	±0.012"	±0.007"	—	2EYP1
1¼"	±0.012"	±0.007"	2EYN2	2EYP3
1½"	±0.014"	±0.007"	2EYN4	2EYP5
1¾"	±0.014"	±0.008"	2EYU4	—
2"	±0.024"	±0.007"	2EYN6	2EYP7
3⁄16" Thick				
1"	±0.012"	±0.007"	2EYP9	2EYR8
1¼"	±0.012"	±0.007"	2EYR2	2EYT1
1½"	±0.014"	±0.007"	2EYR4	2EYT3
2"	±0.024"	±0.007"	2EYR6	2EYT5
¼" Thick				
1"	±0.012"	±0.008"	2EYT7	2EYV5
1¼"	±0.012"	±0.008"	2EYT9	2EYV7
1½"	±0.014"	±0.008"	2EYU2	2EYV9
1¾"	±0.014"	±0.008"	—	2EYW2
2"	±0.024"	±0.008"	2EYU6	2EYW4
2½"	±0.024"	±0.008"	2EYU8	2EYW6
3"	±0.024"	±0.008"	2EYV1	2EYW8
4"	±0.034"	±0.008"	2EYV3	2EYX1
⅜" Thick				
2"	±0.024	±0.008"	2EYX3	—
2½"	±0.024	±0.008"	2EYX5	—
3"	±0.024	±0.008"	2EYX7	—
4"	±0.034"	±0.008"	2EYX9	—
6"	±0.044"	±0.008"	2EYY2	—
½" Thick				
3"	±0.024"	±0.009"	2EYY4	2EYZ1
4"	±0.034"	±0.009"	2EYY6	2EYZ3
5"	±0.034"	±0.009"	2EYY8	2EYZ5
Alloy 6063 -T52 Temper (Mill/Extruded)				
⅛" Thick				
1"	±0.012"	±0.007"	6ALZ8	6ALZ9
1 ½"	±0.014"	±0.007"	6ALZ6	6ALZ7
2"	±0.024"	±0.007"	6ALZ4	6ALZ5



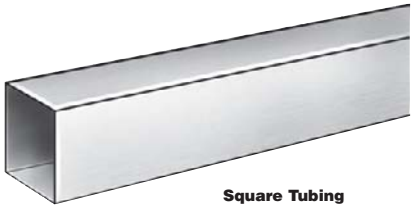
GA GRAINGER APPROVED

Aluminum—U-Channels

- Length 8 ft.
- 6063 standards: ASTM B221

Offer good corrosion resistance, machinability, formability, and weldability.

Wall Thickness	Base Width	Wall Thickness Tolerance	Base Width Tolerance	Leg Length Tolerance	Item No.
Alloy 6063-T52 Temper/Mill					
½" Leg Length					
0.062"	½"	±0.006"	±0.009"	±0.009"	6ALZ2
0.093"	½"	±0.006"	±0.009"	±0.009"	6ALZ3
0.125"	1"	±0.007"	±0.012"	±0.009"	6ALZ1
0.125"	2"	±0.007"	±0.024"	±0.009"	6ALY9
0.125"	1½"	±0.007"	±0.014"	±0.009"	6ALZ0
¾" Leg Length					
0.125"	1¾"	±0.007"	±0.014"	±0.010"	6ALY6
0.125"	½"	±0.007"	±0.009"	±0.010"	6ALY8
0.125"	¾"	±0.007"	±0.010"	±0.010"	6ALY7
1" Leg Length					
0.125"	1"	±0.007"	±0.012"	±0.012"	6ALY5
0.125"	2"	±0.007"	±0.024"	±0.012"	6ALY4
0.125"	3"	±0.007"	±0.024"	±0.012"	6ALY3
0.125"	4"	±0.007"	±0.034"	±0.012"	6ALY2
1 ½" Leg Length					
0.125"	1½"	±0.007"	±0.014"	±0.014"	6ALY0
1 ¼" Leg Length					
0.125"	1¼"	±0.007"	±0.012"	±0.012"	6ALY1
2" Leg Length					
0.188"	5"	±0.007"	±0.034"	±0.024"	6ALX8
0.250"	2"	±0.008"	±0.024"	±0.024"	6ALX9



Square Tubing

GA GRAINGER APPROVED

Aluminum—Tubing

- 6063 standards: ASTM B221

Lightweight tubes are easy to drill, saw, punch, and machine.

Outside Rectangle Size	Inside Rectangle Size	L	Wall Thickness	Wall Thickness Tolerance	Length Tolerance	Item No.
Rectangular Tubing - Alloy 6063-T52 Temper/Mill						
1" x 1½"	¾" x 1¼"	3 ft.	0.125"	±0.015"	±2.000"	6ALV7
		6 ft.	0.125"	±0.015"	±3.000"	6ALV6
1" x 2"	¾" x 1¾"	1 ft.	0.125"	±0.015"	±1.000"	6ALV5
		3 ft.	0.125"	±0.015"	±2.000"	6ALV4
		6 ft.	0.125"	±0.015"	±3.000"	6ALV3
1½" x 2"	1¼" x 1¾"	1 ft.	0.125"	±0.015"	±1.000"	6ALV2
		3 ft.	0.125"	±0.015"	±2.000"	6ALV1
		6 ft.	0.125"	±0.015"	±3.000"	6ALV0
1¾" x 4"	1½" x 3¾"	6 ft.	0.125"	±0.015"	±3.000"	6ALU7
2" x 3"	1½" x 2½"	3 ft.	0.250"	±0.025"	±2.000"	6ALU2
		6 ft.	0.250"	±0.025"	±3.000"	6ALU1
	1¾" x 2¾"	3 ft.	0.125"	±0.015"	±2.000"	6ALU5
		6 ft.	0.125"	±0.015"	±3.000"	6ALU4
2" x 4"	1½" x 3½"	3 ft.	0.250"	±0.025"	±2.000"	6ALT6
		6 ft.	0.250"	±0.025"	±3.000"	6ALT5
	1¾" x 3¾"	1 ft.	0.125"	±0.015"	±1.000"	6ALU0
		3 ft.	0.125"	±0.015"	±2.000"	6ALT9
		6 ft.	0.125"	±0.015"	±3.000"	6ALT8
4" x 6"	3½" x 5½"	1 ft.	0.250"	±0.025"	±1.000"	6ALT4
		3 ft.	0.250"	±0.025"	±2.000"	6ALT3
		6 ft.	0.250"	±0.025"	±3.000"	6ALT2

Outside Square	Inside Square	L	Wall Thickness	Wall Thickness Tolerance	Length Tolerance	Item No.
Rectangular Tubing - Alloy 6063-T52 Temper/Mill						
¾"	½"	3 ft.	⅛"	±0.015"	±2.000"	6ALT0
		6 ft.	⅛"	±0.015"	±3.000"	6ALR9
1"	¾"	3 ft.	⅛"	±0.015"	±2.000"	6ALR4
		6 ft.	⅛"	±0.015"	±3.000"	6ALR3
	⅞"	3 ft.	1/16"	±0.010"	±2.000"	6ALR7
		6 ft.	1/16"	±0.010"	±3.000"	6ALR6
1¼"	1"	1 ft.	⅛"	±0.015"	±1.000"	6ALR2
		3 ft.	⅛"	±0.015"	±2.000"	6ALR1
		6 ft.	⅛"	±0.015"	±3.000"	6ALR0
1½"	1¼"	1 ft.	⅛"	±0.015"	±1.000"	6ALP9
1 ½"	1 ¼"	3 ft.	⅛"	±0.015"	±2.000"	6ALP8
		6 ft.	⅛"	±0.015"	±3.000"	6ALP7
1 ¾"	1 ½"	1 ft.	⅛"	±0.015"	±1.000"	6ALP6
		3 ft.	⅛"	±0.015"	±2.000"	6ALP5
		6 ft.	⅛"	±0.015"	±3.000"	6ALP4
2"	1 ¾"	1 ft.	⅛"	±0.015"	±1.000"	6ALP3
		3 ft.	⅛"	±0.015"	±2.000"	6ALP2
		6 ft.	⅛"	±0.015"	±3.000"	6ALP1
3"	2 ¾"	1 ft.	⅛"	±0.015"	±1.000"	6ALP0
		3 ft.	⅛"	±0.015"	±2.000"	6ALN9
		6 ft.	⅛"	±0.015"	±3.000"	6ALN8
4"	3 ¾"	1 ft.	⅛"	±0.015"	±1.000"	6ALN7
		3 ft.	⅛"	±0.015"	±2.000"	6ALN6
		6 ft.	⅛"	±0.015"	±3.000"	6ALN5



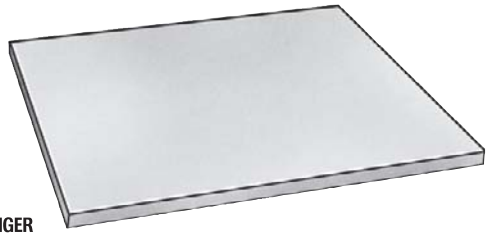
GA GRAINGER APPROVED

Aluminum—Sheets

- Length tolerance: ±0.032"
- Thickness tolerance: ±0.002"
- Width tolerance: ±0.005"

Can be cut, drilled, or shaped.

Thickness (Decimal)	Thickness Tolerance	W	L	Item No.
Alloy 3003 - H14 (Milled)				
0.032"	±0.002"	4"	10"	5MWN1
0.064"	±0.002"	4"	10"	5MWN2
0.032"	±0.002"	6"	12"	15V222
Alloy 6061 - T6 (Milled)				
0.090"	±0.002"	6"	12"	15V220
0.125"	±0.002"	6"	12"	15V221



GA GRAINGER APPROVED

Aluminum—Plates

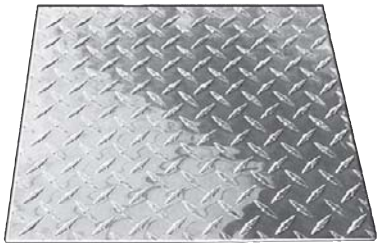
- 3003 standards: ASTM B209, AMS-QQ-A-250, AMS 4008
- 6061 standards: ASTM B209, AMS-QQ-A-250, AMS 4027

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Thickness Tolerance	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 48" Item No.
Alloy 3003-H14 Temper (Milled)					
0.063"	±0.005"	3DRZ2 **	3DRZ3 **	3DRZ4 **	3DRZ5 **
0.125"	±0.007"	3DRZ6 **	3DRZ7 **	3DRZ8 **	3DRZ9 **
0.188"	±0.010"	3DTA1 **	3DTA2 **	3DTA3 **	3DTA4 **
Alloy 6061-T6 Temper (Milled)					
0.063"	±0.005"	3DTA5 **	3DTA6 **	3DTA7 **	3DTA8 **
0.125"	±0.007"	3DTA9 **	3DTC1 **	3DTC2 **	3DTC3 **
0.188"	±0.010"	3DTC4 **	3DTC5 **	3DTC6 **	3DTC7 **

Thickness (Decimal)	Thickness Tolerance	6" x 6" Item No.	12" x 12" Item No.	24" x 24" Item No.
Alloy 6061-T651 Temper (Milled)				
0.250"	+0.014/-0.000"	2AVD6 *	2HGN8 *	2HGR5 *
0.250"	+0.031/-0.000"	2AVE1 *	2HGP3 *	—
0.375"	+0.017/-0.000"	2AVD7 *	2HGN9 *	2HGR6 *
0.500"	+0.023/-0.000"	2AVD8 *	2HGP1 *	2HGR7 *
0.750"	+0.031/-0.000"	—	—	2HGR9 *
1.000"	+0.039/-0.000"	2AVE2 *	—	2HGT1 *
1.500"	+0.039/-0.000"	2AVE4 †	—	—

*Width and length tolerances: * ±0.125/0.000"; † ±0.250/0.000"; ** ±0.125.*



GA GRAINGER APPROVED

Aluminum—Tread Plates

- 3003 standards: ASTM B209
- Length and width tolerance: ±0.125"

Easily welded material is moisture-resistant to provide excellent traction.

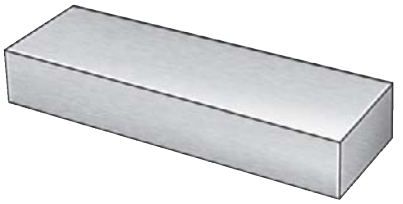
Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness Tolerance	6" X 2 FT. Item No.	1 FT. X 1 FT. Item No.	1 FT. X 2 FT. Item No.	1 FT. X 4 FT. Item No.	2 FT. X 2 FT. Item No.	2 FT. X 4 FT. Item No.
Alloy 3003- H22 Temper (Bright)						
±0.006"	3VXC6	3DRX8	3DRX9	3DRY1	3VXC7	3DRY2
±0.013"	—	3DRY3	3DRY4	3DRY5	—	3DRY6
±0.018"	—	3DRY7	3DRY8	3DRY9	—	3DRZ1

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**



GA GRAINGER APPROVED

Aluminum—Rectangular Bars

- 2024 standards: ASTM B211, AMS-QQ-A-225, AMS 4120
- 3003 standards: ASTM B209
- 5052 standards: ASTM B209
- 6061 standards: ASTM B221, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 2024 - Cold Finish Temper (Unpolished)					
0.375"	4" x 12"	±0.010"	±0.002"	2EYK6	*
	4" x 36"	±0.010"	±0.002"	2EYK8	†
	4" x 72"	±0.010"	±0.002"	2EYL1	‡
Alloy 3003 - H14 (½ Hard) Temper (Mill)					
0.125"	1" x 36"	±0.063"	±0.006"	1NZC9	**
	1" x 72"	±0.063"	±0.006"	1NZD1	**
	1½" x 36"	±0.063"	±0.006"	1NZD3	**
	1½" x 72"	±0.063"	±0.006"	1NZD4	**
	2" x 12"	±0.063"	±0.006"	1NZD5	**
	2" x 36"	±0.063"	±0.006"	1NZD6	**
	2" x 72"	±0.063"	±0.006"	1NZD7	**
	4" x 12"	±0.063"	±0.006"	1NZE5	**
	4" x 36"	±0.063"	±0.006"	1NZE6	**
	4" x 72"	±0.063"	±0.006"	1NZE7	**
0.187"	1½" x 12"	±0.063"	±0.007"	1NZF2	**
	1½" x 72"	±0.063"	±0.007"	1NZF4	**
Alloy 5052 - H32 (¼ Hard) Temper (Mill)					
0.125"	1" x 36"	±0.060"	±0.006"	1NZG9	
	1" x 72"	±0.060"	±0.006"	1NZH1	
	1½" x 36"	±0.060"	±0.006"	1NZH3	
	1½" x 72"	±0.060"	±0.006"	1NZH4	
	2" x 36"	±0.060"	±0.006"	1NZH6	
	2" x 72"	±0.060"	±0.006"	1NZH7	
	2½" x 36"	±0.060"	±0.006"	1NZH9	
	2½" x 72"	±0.060"	±0.006"	1NZJ1	
	3" x 72"	±0.060"	±0.006"	1NZJ4	
	4" x 12"	±0.060"	±0.006"	1NZJ5	
	4" x 72"	±0.060"	±0.006"	1NZJ7	
0.250"	1" x 36"	±0.060"	±0.012"	1NZL9	
	1" x 72"	±0.060"	±0.012"	1NZN1	
	2" x 12"	±0.060"	±0.012"	1NZN5	
	2" x 72"	±0.060"	±0.012"	1NZN7	
	4" x 12"	±0.060"	±0.012"	1NZP5	
	4" x 36"	±0.060"	±0.012"	1NZP6	
	4" x 72"	±0.060"	±0.012"	1NZP7	
Alloy 6061 - Extruded Temper (Unpolished)					
0.125"	1" x 72"	±0.012"	±0.007"	2EYV4	‡
	1½" x 72"	±0.014"	±0.007"	2EYV6	‡
	2" x 72"	±0.024"	±0.007"	2EYV8	‡
	3" x 36"	±0.024"	±0.007"	2EYU9	†
	3" x 72"	±0.024"	±0.007"	2EYW1	‡
	4" x 36"	±0.034"	±0.007"	2EYV2	†
	4" x 72"	±0.034"	±0.007"	2EYW3	‡
0.250"	1" x 72"	±0.012"	±0.008"	2EZA5	‡
	1½" x 36"	±0.014"	±0.008"	2EYY9	†
	1½" x 72"	±0.014"	±0.008"	2EZA7	‡
	2" x 36"	±0.024"	±0.008"	2EYZ2	†
	2" x 72"	±0.024"	±0.008"	2EZA9	‡
	3" x 36"	±0.024"	±0.008"	2EYZ6	†
	3" x 72"	±0.024"	±0.008"	2EZB4	‡
	4" x 12"	±0.034"	±0.008"	2EYY7	*
	4" x 36"	±0.034"	±0.008"	2EYZ8	†
	4" x 72"	±0.034"	±0.008"	2EZB6	‡
	6" x 12"	±0.044"	±0.008"	2ARH3	*
	6" x 36"	±0.044"	±0.008"	2ARH7	†
	6" x 72"	±0.044"	±0.008"	2ARJ2	‡
	12" x 12"	±0.084"	±0.008"	2ARH5	*
	12" x 36"	±0.084"	±0.008"	2ARH9	†
	12" x 72"	±0.084"	±0.008"	2ARJ4	‡
0.375"	1" x 36"	±0.012"	±0.008"	2EZE1	†
	1" x 72"	±0.012"	±0.008"	2EZF8	‡
	1½" x 36"	±0.014"	±0.008"	2EZE3	†
	1½" x 72"	±0.014"	±0.008"	2EZG1	‡
	2" x 36"	±0.024"	±0.008"	2EZE5	†
	2" x 72"	±0.024"	±0.008"	2EZG3	‡
0.500"	1½" x 12"	±0.014"	±0.009"	2EZH6	*
	1½" x 36"	±0.014"	±0.009"	2EZK2	†
	1½" x 72"	±0.014"	±0.009"	2EZL7	‡
	2" x 12"	±0.024"	±0.009"	2EZH8	*
	2" x 36"	±0.024"	±0.009"	2EZK4	†
	2" x 72"	±0.024"	±0.009"	2EZL9	‡
	3" x 72"	±0.024"	±0.009"	2AVC8	‡
	3" x 12"	±0.024"	±0.009"	2EZJ3	*
	3" x 36"	±0.024"	±0.009"	2EZK8	†
	4" x 72"	±0.034"	±0.009"	2AVD1	‡
	4" x 12"	±0.034"	±0.009"	2EZJ5	*
	4" x 36"	±0.034"	±0.009"	2EZL1	†
	6" x 12"	±0.044"	±0.009"	1ZCT6	*
	6" x 36"	±0.044"	±0.009"	1ZCT9	†
	6" x 72"	±0.044"	±0.009"	1ZCU4	‡
0.750"	1" x 12"	±0.012"	±0.010"	2EZT8	*
	1" x 36"	±0.012"	±0.010"	2EZU6	†
	1" x 72"	±0.012"	±0.010"	2EZV3	‡
	1½" x 12"	±0.014"	±0.010"	2EZU1	*
	1½" x 36"	±0.014"	±0.010"	2EZU8	†
	1½" x 72"	±0.014"	±0.010"	2EZV5	‡
	2" x 12"	±0.024"	±0.010"	2EZU3	*
	2" x 36"	±0.024"	±0.010"	2EZU9	†
	2" x 72"	±0.024"	±0.010"	2EZV6	‡
	3" x 12"	±0.024"	±0.010"	2EZU4	*
	3" x 36"	±0.024"	±0.010"	2EZV1	†
	3" x 72"	±0.024"	±0.010"	2EZV7	‡
	4" x 12"	±0.034"	±0.010"	2EZU5	*
	4" x 36"	±0.034"	±0.010"	2EZV2	†
	4" x 72"	±0.034"	±0.010"	2EZV8	‡
1.000"	1½" x 12"	±0.014"	±0.012"	2EZW2	*
	1½" x 36"	±0.014"	±0.012"	2EZW9	†
	1½" x 72"	±0.014"	±0.012"	2EZX7	‡
	2" x 12"	±0.024"	±0.012"	2EZW3	*
	2" x 36"	±0.024"	±0.012"	2EZX1	†
	2" x 72"	±0.024"	±0.012"	2EZX8	‡
	3" x 12"	±0.024"	±0.012"	2EZW5	*
	3" x 36"	±0.024"	±0.012"	2EZX3	†
	3" x 72"	±0.024"	±0.012"	2EZY1	‡
	4" x 12"	±0.034"	±0.012"	2EZW6	*
	4" x 36"	±0.034"	±0.012"	2EZX4	†
	4" x 72"	±0.034"	±0.012"	2EZY2	‡
1.250"	1½" x 36"	±0.014"	±0.012"	2EZY7	†
1.500"	2" x 12"	±0.024"	±0.014"	2EZZ5	*
	2" x 36"	±0.024"	±0.014"	2EZZ8	†
	2" x 72"	±0.024"	±0.014"	2FAA1	‡
	8" x 12"	±0.054"	±0.014"	1ZCY6	*
	8" x 36"	±0.054"	±0.014"	1ZCZ1	†
	8" x 72"	±0.054"	±0.014"	1ZC25	‡
2.000"	2½" x 12"	±0.024"	±0.024"	2FAB1	*
	2½" x 36"	±0.024"	±0.024"	2FAB4	†
	2½" x 72"	±0.024"	±0.024"	2FAB6	‡
	3" x 12"	±0.024"	±0.024"	2FAB2	*
	3" x 36"	±0.024"	±0.024"	2FAB5	†
	3" x 72"	±0.024"	±0.024"	2FAB7	‡
	6" x 12"	±0.044"	±0.024"	1ZDA5	*
	6" x 36"	±0.044"	±0.024"	1ZDA9	†
	6" x 72"	±0.044"	±0.024"	1ZDB4	‡
3.000"	4" x 36"	±0.034"	±0.024"	1ZDD5	†
	4" x 72"	±0.034"	±0.024"	1ZDD9	‡
	4" x 12"	±0.034"	±0.024"	2HGL9	*
Alloy 6063 - T52 Temper (Mill)					
0.125"	½" x 96"	±0.009"	±0.007"	6ALX7	* *
	¾" x 96"	±0.010"	±0.007"	6ALX5	* *
	1" x 96"	±0.012"	±0.007"	6ALX4	* *
0.250"	1" x 96"	±0.012"	±0.008"	6ALW7	* *
	1½" x 96"	±0.014"	±0.008"	6ALW6	* *
	2" x 96"	±0.024"	±0.008"	6ALW5	* *
0.500"	¾" x 96"	±0.010"	±0.009"	6ALW1	* *
	1" x 96"	±0.012"	±0.009"	6ALW0	* *
	2" x 96"	±0.024"	±0.009"	6ALV9	* *

Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 6063 - T52 Temper (Mill)				
0.125" Thick				
½" x 96"	±0.009"	±0.007"	6ALX7	*
¾" x 96"	±0.010"	±0.007"	6ALX5	*
1" x 96"	±0.012"	±0.007"	6ALX4	*
0.250" Thick				
1" x 96"	±0.012"	±0.008"	6ALW7	*
1½" x 96"	±0.014"	±0.008"	6ALW6	*
2" x 96"	±0.024"	±0.008"	6ALW5	*
0.500" Thick				
¾" x 96"	±0.010"	±0.009"	6ALW1	*
1" x 96"	±0.012"	±0.009"	6ALW0	*
2" x 96"	±0.024"	±0.009"	6ALV9	*

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ** ±0.500".*



GA GRAINGER APPROVED

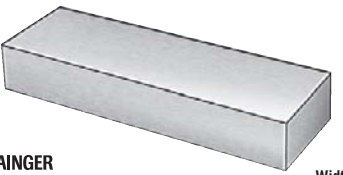
Aluminum—Square Bars

- 6061 standards: ASTM B221, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 6061 - Extruded Temper (Unpolished)					
0.125"	6" x 72"	±0.044"	±0.007"	2ARH1	‡
0.625"	⅜" x 36"	±0.009"	±0.009"	2EZP2	†
	⅜" x 72"	±0.009"	±0.009"	2EZR5	‡
1.000"	1" x 12"	±0.012"	±0.012"	2EZV9	*
	1" x 36"	±0.012"	±0.012"	2EZW7	†
	1" x 72"	±0.012"	±0.012"	2EZX5	‡
	12" x 36"	±0.084"	±0.012"	1ZCX6	†
1.500"	4" x 72"	±0.034"	±0.014"	1ZCZ3	‡
1.750"	1¾" x 12"	±0.014"	±0.014"	2FAA3	*
	1¾" x 72"	±0.014"	±0.014"	2FAA7	‡
2.000"	4" x 72"	±0.034"	±0.024"	1ZDB3	‡
4.000"	6" x 72"	±0.044"	±0.034"	1ZDE7	‡
Alloy 6063 - T52 Temper (Mill)					
0.125"	1¼" x 96"	±0.012"	±0.007"	6ALX3	*
0.250"	½" x 96"	±0.009"	±0.008"	6ALW9	*
	¾" x 96"	±0.010"	±0.008"	6ALW8	*
0.500"	½" x 96"	±0.009"	±0.009"	6ALL9	*
0.750"	¾" x 96"	±0.010"	±0.010"	6ALL7	*
1.000"	1" x 96"	±0.012"	±0.012"	6ALL5	*

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000".*



GA GRAINGER APPROVED

Aluminum—Precision Ground Blanks

- 6061 standards: ASTM B209, ASTM B211
- 2024 standards: ASTM B209

Feature highly consistent dimensions with guaranteed tolerances. Machine-ready materials increase throughput by helping to minimize preparation and setup times. Thickness, width, and length tolerances: ±0.002".

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Width and Length	Item No.
Alloy 6061 -T651/T6511 Temper		
0.250"	6" x 6"	1NYL1
	6" x 12"	1NYK9
	8" x 8"	1NYL3
	8" x 12"	1NYL2
	12" x 12"	1NYK3
	12" x 18"	1NYK4
	12" x 24"	1NYK5
	24" x 24"	1NYK7
0.500"	12" x 12"	1NYN5
	12" x 24"	1NYN7
0.750"	8" x 12"	1NYT6
	12" x 18"	1NYR8
	12" x 24"	1NYR9
	24" x 24"	1NYT2
1.000"	1" x 1"	1NYT8
7.500"	7½" x 7½"	1NYX2
Alloy 6061 -T651 Temper		
0.500"	12" x 18"	1NYN6

Thickness (Decimal)	12" x 12" Item No.	12" x 18" Item No.	12" x 24" Item No.
Alloy 2024 -T351 Temper			
0.250"	—	1NYX4	1NYX5
0.500"	1NYZ2	1NYZ3	1NYZ4



GA GRAINGER APPROVED

Aluminum—Cylindrical Rods

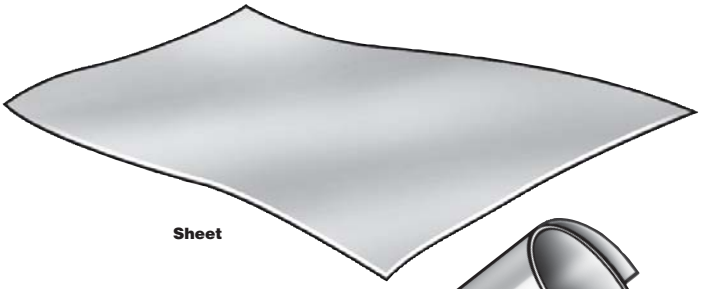
- 6061 (Unpolished) standards: ASTM B211, AMS-QQ-A-200
- 6061 (Mill); 6063 standards: ASTM B221

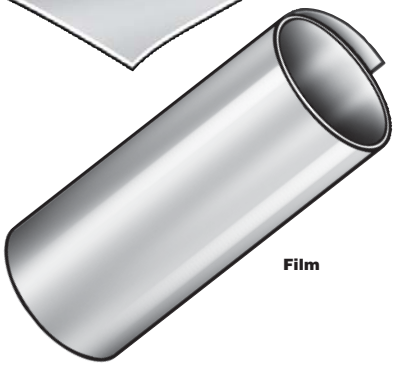
Note: Additional sizes and alloys are available; call 1-800-GRAINGER (472-4643).

Dia.	Dia. Tolerance	1-FT. LENGTH* Item No.	1-FT. LENGTH Item No.	3-FT. LENGTH† Item No.	6-FT. LENGTH‡ Item No.
Alloy 6061 - Extruded Temper (Mill)					
⅛"	±0.002"	—	48KU32	—	—
⅜"	±0.002"	—	48KU33	—	—
½"	±0.002"	—	48KU30	—	—
Alloy 6061 - Extruded Temper (Unpolished)					
⅜"	±0.008"	—	—	—	2EYJ6
½"	±0.009"	—	—	—	2EYJ7
¾"	±0.010"	—	—	2EYG7	2EYJ9
⅞"	±0.010"	—	—	2EYG8	2EYK1
1"	±0.012"	—	—	2EYG9	2EYK2
1¼"	±0.012"	—	—	2EYH2	2EYK4
1⅜"	±0.012"	2EYF3	—	—	2EYK5
1½"	±0.014"	2EYF4	—	2EYH4	2EYK7
1¾"	±0.014"	2EYF6	—	2EYH6	—
2"	±0.024"	2EYF7	—	2EYH7	2EYL4
2¼"	±0.024"	2EYF8	—	2EYH8	2EYL6
2½"	±0.024"	2EYF9	—	2EYH9	2EYL8
2¾"	±0.024"	2EYG1	—	2EYJ1	2AVB5
3"	±0.024"	2EYG2	—	2EYJ2	2AVB7
4"	±0.034"	2EYG6	—	—	—
Alloy 6061-T6 - Extruded Temper (Mill)					
¼"	±0.002"	—	48KU31	—	—

Dia.	Dia. Tolerance	8-FT. LENGTH* Item No.
Alloy 6063 - T52 Temper (Mill)		
½"	±0.005"	6ALN1
¾"	±0.005"	6ALN2
1"	±0.006"	6ALN3
2"	±0.012"	6ALN4

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000".*





GA GRAINGER APPROVED

Industrial Foil

- Thickness tolerance: ≤10%
- Width tolerance: ±0.010"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

ALUMINUM ROLLS AND SHEETS

Soft-tempered sheets and rolls are good for packaging and laminations. Sheets are for hair foil, laboratory foil, food applications. Rolls are excellent for heat exchangers, fin stock, chemical equipment, metal stampings, transformers, moisture barriers, spinning, and nameplates. Hard-tempered rolls are made from higher-strength material that holds its shape after forming. For heat shielding, RFI and EFI shielding, stamping, nameplate, and HVAC. Meet ASTM B209 standards.

Thickness	Width	Length	Item No.	Pkg. Qty.
Aluminum Foil Rolls And Sheets				
Soft-Tempered Sheets				
0.0005"	9"	10¾"	**4UGH6**	500
0.0006"	10¾"	12"	**4UGH7**	500
Soft-Tempered Foil Roll				
0.0007"	12"	500 ft.	**4UGE8**	1
	12"	1000 ft.	**4UGE9**	1
	18"	500 ft.	**4UGF1**	1
	18"	1000 ft.	**4UGF2**	1
0.001"	12"	250 ft.	**4UGF3**	1
	18"	250 ft.	**4UGF5**	1
	18"	500 ft.	**4UGF6**	1
0.0015"	6"	250 ft.	**4UGF8**	1
	6"	500 ft.	**4UGF9**	1
	8"	250 ft.	**4UGG1**	1
	8"	500 ft.	**4UGG2**	1
0.002"	18"	250 ft.	**4UGG3**	1
	18"	500 ft.	**4UGG4**	1
0.003"	36"	100 ft.	**4UGG5**	1
	48"	100 ft.	**4UGG6**	1
0.005"	36"	100 ft.	**4UGG7**	1
	48"	100 ft.	**4UGG8**	1
0.016"	6"	50 ft.	**4UGG9**	1
	12"	50 ft.	**4UGH2**	1
	14"	50 ft.	**4UGH3**	1
	18"	50 ft.	**4UGH4**	1
	20"	50 ft.	**4UGH5**	1
Hard-Tempered Foil Roll				
0.001"	18"	100 ft.	**4UGJ6**	1
0.002"	6"	50 ft.	**4UGJ1**	1
	6"	100 ft.	**4UGJ7**	1
0.003"	6"	50 ft.	**4UGJ3**	1
	18"	50 ft.	**4UGJ4**	1
	18"	100 ft.	**4UGK1**	1

STAINLESS STEEL FOIL ROLLS

Nonmagnetic rolls have good weldability and formability. Frequently used in heat treating, moisture barriers, chemical tanks, heat exchangers, fin stock, chemical equipment, metal stampings, and shim stock. Alloy 304 is the most widely used. Alloy 309 has better temperature resistance. Alloy 321 has titanium added for superior corrosion resistance and weldability. Tensile strength: 75,000 psi. Yield strength: 25 to 30 psi. Meet ASTM A240 standards.

COPPER FOIL ROLLS—ALLOY 110

Form a corrosion-resistant green patina over time. Plain finish, soft temper. Commonly used in heat exchangers, fin stock, metal stampings, transformers, printed circuit boards, arts, crafts and construction. Tensile strength: 26,000 psi. Yield strength: 8000 psi. Meet ASTM B152 standards.

Thickness	Width	Length	Item No.	Pkg. Qty.
Stainless Steel Foil Rolls				
304 Alloy				
0.002"	12"	10 ft.	**4UGK2**	1
	12"	25 ft.	**4UGK4**	1
	12"	50 ft.	**4UGK6**	1
	12"	100 ft.	**4UGK8**	1
	24"	10 ft.	**4UGK3**	1
	24"	25 ft	**4UGK5**	1
	24"	50 ft.	**4UGK7**	1
	24"	100 ft.	**4UGK9**	1
309 Alloy				
0.002"	24"	10 ft.	**4UGL1**	1
	24"	100 ft.	**4UGL4**	1
321 Alloy				
0.002"	12"	10 ft.	**4UGL5**	1
	12"	25 ft.	**4UGL7**	1
	12"	100 ft.	**4UGN2**	1
	24"	50 ft.	**4UGN1**	1
	24"	100 ft.	**4UGN3**	1
Copper Foil Rolls				
110 Alloy				
0.003"	1"	100 ft.	**4UGP2**	1
	2"	100 ft.	**4UGT5**	1
	4"	50 ft.	**4UGU3**	1
	4"	100 ft.	**4UGV1**	1
	6"	50 ft.	**4UGV8**	1
	6"	100 ft.	**4UGW6**	1
0.005"	1"	100 ft.	**4UGP4**	1
0.007"	1"	100 ft.	**4UGP5**	1
	1½"	100 ft.	**4UGR3**	1
	2"	100 ft.	**4UGT8**	1
0.010"	1"	100 ft.	**4UGP6**	1
	2"	50 ft.	**4UGT2**	1
0.021"	4"	50 ft.	**4UGU9**	1







PRECISION BRAND

MAUDLIN PRODUCTS
MW Industries, Inc.

Coatings & Tool Wraps

Cut-to-fit wraps eliminate decarburization buildup, help protect from scale and oxide buildup during heat treating in atmospheric furnaces, and protect surface of air hardening tool steels. Packaged in reclosable cartons.

Note: Additional sizes are available on Grainger.com®.

W	L	Max. Temp. (°F)	Thickness	Brand	Item No.
Tool Wrap					
Stainless Steel					
20"	100 ft.	2000	.002"	Precision Brand	**42DJ76**
Type 309, Soft Annealed, Stainless Steel					
10"	50 ft.	2100	0.002"	Maudlin Products	**4FRA8**
20"	50 ft.	2100	0.002"	Maudlin Products	**4FRC1**
	100 ft.	2100	0.002"	Maudlin Products	**4FRC2**
24"	50 ft.	2240	0.002"	Precision Brand	**5XE77**
	100 ft.	2240	0.002"	Precision Brand	**5XE78**
Type 321, Soft Annealed, Stainless Steel					
12"	100 ft.	2000	0.002"	Precision Brand	**5XE76**
20"	50 ft.	1800	0.002"	Maudlin Products	**4FRC5**
	100 ft.	1800	0.002"	Maudlin Products	**4FRC6**

Coverage	Color	Includes	Brand	Item No.
Tool Black® Kit Liquid				
25 to 35 sq. ft.	Blue	1 pt. Metal Polish/Cleanser, 1 pt. Tool Black® Liquid, and 1 pt. Prevent®	Precision Brand	**43Y998**
Tool Black® Kit Gel				
20 sq. ft.	Blue	1 pt. Metal Polish/Cleanser, 1 pt. Tool Black® Gel, and 1 pt. Prevent®	Precision Brand	**43Y999**
Hot Melt Strippable Protective Coating, Type 1				
—	Clear	5lb. bag	Precision Brand	**3L879**
	Amber	5lb. bag	Precision Brand	**3L877**
2-Piece ABC Blackener™ Kit				
30 to 40 sq. ft.	Black	1 qt. of ABC Blackener™ and 1 qt. Bottle of ABC Sealant™	Precision Brand	**5XU50**

Carbon Steel Information

Material	Tensile Strength (psi)*	Yield Strength (psi)*	Hardness (BHN)*	Toughness	Wear Resistance	Formability	Machinability†	Weldability
Low Carbon Grade								
Low Carbon - Cold Rolled	38,000 to 50,000	25,000 to 35,000	107 Max.	Fair	Fair	Excellent	Good	Excellent
Low Carbon - Hot Rolled	58,000 to 80,000	36,000	107 Max.	Fair	Fair	Excellent	Good	Excellent
1009	60,000	33,000	149	Fair	Fair	Fair	Good	Excellent
1015	58,000	42,000	149	Fair	Fair	Good	Good	Excellent
1018	65,000 to 85,000	55,000 to 75,000	167	Fair	Fair	Good	Good	Excellent
Medium Carbon Grade								
1045	90,000	59,000	—	Good	Poor	Fair	Fair	Poor
1144	100,000	95,500	223	Good	Poor	Fair	Good	Poor
Screw Machine Grade								
12L14	78,000 to 85,000	60,000 to 75,000	187	Poor	Poor	Poor	Excellent	Not Recommended
1215	78,000 to 95,000	60,000 to 80,000	187	Poor	Fair	Not Recommended	Excellent	Not Recommended

** Typical levels @ 1" dia. † Compared to AISI 1212, which has 100% machinability.*



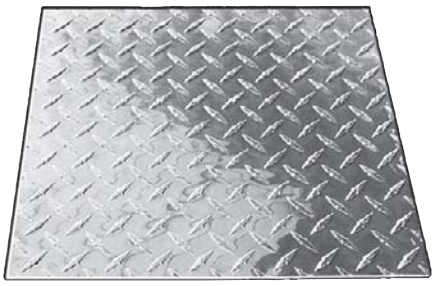
GA GRAINGER APPROVED

Carbon Steel—Plates

- Standards: ASTM A36 (hot-rolled); ASTM A366 (cold-roll)
- Length and width tolerances: +0.125/-0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Thickness Tolerance	1 FT. x 1 FT. Item No.	2 FT. x 1 FT. Item No.	4 FT. x 1 FT. Item No.	4 FT. x 2 FT. Item No.
Hot Rolled A36 Steel					
0.125"	±0.030"	**3DRT8**	**3DRT9**	**3DRU1**	**3DRU2**
0.187"	±0.030"	**3DRU3**	**3DRU4**	**3DRU5**	**3DRU6**
0.250"	±0.030"	**3DRU7**	**3DRU8**	**3DRU9**	**3DRV1**
Cold Finish 1008 Steel					
0.062"	±0.0025"	**3DRW5**	**3DRW6**	**3DRW7**	**3DRW8**
0.047"	±0.0020"	**3DRW9**	**3DRX1**	**3DRX2**	**3DRX3**
0.032"	±0.0015"	**3DRX4**	**3DRX5**	**3DRX6**	**3DRX7**



GA GRAINGER APPROVED

Carbon Steel—Tread Plates

- 1009 alloy steel meets ASTM A786
- Length and width tolerances: +0.125/-0.000"

Easily welded material provides excellent skid resistance.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Thickness Tolerance	1 FT. x 1 FT. Item No.	2 FT. x 1 FT. Item No.	4 FT. x 1 FT. Item No.	4 FT. x 2 FT. Item No.
⅛"	±0.015"	**3DRV2**	**3DRV3**	**3DRV4**	**3DRV5**
3⁄16"	±0.017"	**3DRV6**	**3DRV7**	**3DRV8**	**3DRV9**
¼"	±0.017"	**3DRW1**	**3DRW2**	**3DRW3**	**3DRW4**



GA GRAINGER APPROVED

Carbon Steel—90° Angles

- Low carbon alloy steel
- Length tolerance: ±0.125"
- Length 6 ft.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Leg Length	Leg Length Tolerance	Thickness Tolerance	Item No.
¼" Thickness			
1"	±0.0313"	±0.010"	**2AUT3**
1½"	±0.046"	±0.010"	**2AUT4**
2"	±0.046"	±0.010"	**2AUT5**
2½"	±0.0625"	±0.015"	**2AUT6**
3"	±0.125"	±0.015"	**2AHN1**
4"	±0.125"	±0.015"	**2AHN2**
⅛" Thickness			
¾"	±0.0313"	±0.008"	**2AHL9**
1"	±0.0313"	±0.008"	**2AUR7**
1¼"	±0.046"	±0.010"	**2AUR8**
1½"	±0.046"	±0.010"	**2AUR9**
2"	±0.046"	±0.010"	**2AUT1**
3⁄16" Thickness			
1½"	±0.046"	±0.010"	**2AUT2**



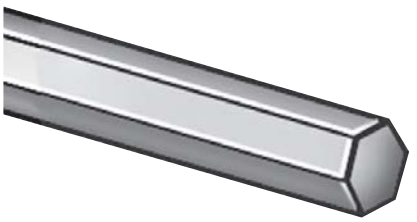
GA GRAINGER APPROVED

Carbon Steel—Structural Square Tubes

- 1015 alloy meets ASTM A500 Grade B
- Length tolerance: +0.125/-0.000"
- Length 6 ft.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Outside Dia.	Outside Dia. Tolerance	Wall Thickness Tolerance	Item No.
⅛" Wall Thickness			
¾"	+/-0.025"	±0.013"	**3DRR4**
1"	+/-0.025"	±0.013"	**3DRR5**
1¼"	+/-0.025"	±0.013"	**3DRR6**
1½"	+/-0.025"	±0.013"	**3DRR7**
2"	+/-0.025"	±0.013"	**3DRR8**
3"	+/-0.025"	±0.013"	**3DRR9**
3⁄16" Wall Thickness			
1½"	+/-0.025"	±0.019"	**3DRT1**
2"	+/-0.025"	±0.019"	**3DRT2**
2½"	+/-0.025"	±0.019"	**3DRT3**
3"	+/-0.025"	±0.019"	**3DRT4**
¼" Wall Thickness			
2"	+/-0.025"	±0.025"	**3DRT5**
3"	+/-0.025"	±0.025"	**3DRT6**
4"	+/-0.025"	±0.025"	**3DRT7**



GA GRAINGER APPROVED

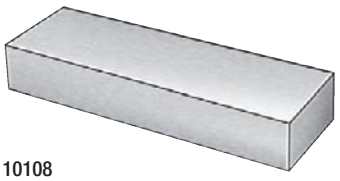
Carbon Steel—Hexagonal Rods

- 1018 alloy meets ASTM 108, UNS# G10180, AISI 1018
- 12L14 alloy meets ASTM 108, UNS# G1244
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Hex Width	Hex Width Tolerance	1 FT. LENGTH Item No.	3 FT. LENGTH Item No.	6 FT. LENGTH Item No.
1018 Carbon Steel				
½"	+0.000/-0.002"	—	—	**2HJN1**
⅝"	+0.000/-0.002"	—	—	**2HJN2**
¾"	+0.000/-0.002"	—	—	**2HJN3**
⅞"	+0.000/-0.003"	—	—	**2HJN4**
1"	+0.000/-0.003"	**2AVF5**	—	**2HJN5**
1¼"	+0.000/-0.003"	**2AVF6**	**2AVG1**	**2HJN6**
1½"	+0.000/-0.003"	**2AVF7**	**2AVG2**	**2HJN7**
2"	+0.000/-0.004"	**2AVF8**	**2AVG3**	**2HJN8**
2½"	+0.000/-0.004"	—	—	**2HJN9**

Hex Width	Hex Width Tolerance	1 FT. LENGTH Item No.	3 FT. LENGTH Item No.	6 FT. LENGTH Item No.
12L14 Carbon Steel				
5⁄16"	±0.002"	**4YNE6**	**4YNE7**	—
⅜"	±0.002"	**4YNE9**	**4YNF1**	**4YNF2**
7⁄16"	±0.002"	**4YNF3**	**4YNF4**	—
½"	±0.002"	**4YNF6**	**4YNF7**	**2HJW1**
⅝"	±0.002"	**4YNF9**	**4YNG1**	**2HJW2**
¾"	±0.003"	**4YNG3**	**4YNG4**	**2HJW3**
⅞"	±0.003"	**4YNG6**	**4YNG7**	**2HJW4**
1"	±0.003"	**4YNG9**	**4YNH1**	**2HJW5**
1¼"	+0.000/-0.003"	—	**2HJV4**	**2HJW6**
1½"	+0.000/-0.003"	**2HJU9**	**2HJV5**	**2HJW7**
1¾"	+0.000/-0.004"	**2HJV1**	**2HJV6**	**2HJW8**
2"	+0.000/-0.004"	**2HJV2**	**2HJV7**	**2HJW9**
3"	+0.000/-0.005"	**2HJV3**	**2HJV8**	—



GA GRAINGER APPROVED

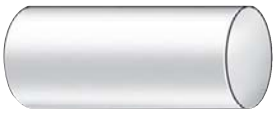
Carbon Steel—Rectangular Bars

- 1018 alloy meets ASTM 108, AISI 10108
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Width	Width Tolerance	Thickness Tolerance	1-FT. LENGTH Item No.	3-FT. LENGTH Item No.	6-FT. LENGTH Item No.
1018 Carbon Steel					
⅛" Thick					
1"	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGY6
1½"	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGY8
2"	+0.000/-0.005"	+0.000/-0.005"	—	—	2HGY9
3⁄16" Thick					
1"	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGZ3
1½"	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGZ5
¼" Thick					
1"	+0.000/-0.004"	+0.000/-0.004"	—	2HHA3	2HHB8
1½"	+0.000/-0.004"	+0.000/-0.004"	—	2HHA6	2HHC2
2"	+0.000/-0.005"	+0.000/-0.005"	2HGZ6	2HHA8	2HHC4
2½"	+0.000/-0.005"	+0.000/-0.005"	2HGZ7	2HHA9	2HHC5
3"	+0.000/-0.005"	+0.000/-0.005"	2HGZ8	2HHB1	2HHC6
3½"	+0.000/-0.006"	+0.000/-0.006"	2HGZ9	2HHB2	2HHC7
4"	+0.000/-0.006"	+0.000/-0.006"	2HHA1	2HHB3	2HHC8
5"	+0.000/-0.008"	+0.000/-0.008"	2AGW6	2AGW8	2AGX1
6"	+0.000/-0.008"	+0.000/-0.008"	2AGW7	2AGW9	2AGX2
⅜" Thick					
1"	+0.000/-0.004"	+0.000/-0.004"	—	2HHE1	2HHF5
2"	+0.000/-0.005"	+0.000/-0.005"	2HHD2	2HHE4	2HHF8
3"	+0.000/-0.005"	+0.000/-0.005"	2HHD5	2HHE7	2HHG2
4"	+0.000/-0.006"	+0.000/-0.006"	2HHD8	2HHE9	2HHG4
5"	+0.000/-0.008"	+0.000/-0.008"	2AGX6	2AGX8	2AGY1
6"	+0.000/-0.008"	+0.000/-0.008"	2AGX7	2AGX9	2AGY2
½" Thick					
⅝"	+0.000/-0.003"	+0.000/-0.003"	—	2HHH9	2HHK5
1"	+0.000/-0.004"	+0.000/-0.004"	2HHG6	2HHJ2	2HHK7
1¼"	+0.000/-0.004"	+0.000/-0.004"	2HHG7	2HHJ3	2HHK8
2"	+0.000/-0.005"	+0.000/-0.005"	2HHH1	2HHJ6	2HHL2
3"	+0.000/-0.005"	+0.000/-0.005"	2HHH4	2HHJ9	2HHL5
4"	+0.000/-0.006"	+0.000/-0.006"	2HHH7	2HHK3	2HHL8
6"	+0.000/-0.008"	+0.000/-0.008"	2AGY4	2AGY6	2AGY8
¾" Thick					
1"	+0.000/-0.004"	+0.000/-0.004"	2HHP8	2HHT1	2HHU3
2"	+0.000/-0.005"	+0.000/-0.005"	2HHR3	2HHT5	2HHU7
6"	+0.000/-0.008"	+0.000/-0.008"	2AGZ5	2AGZ8	2AHA2
1" Thick					
2"	+0.000/-0.005"	+0.000/-0.005"	2HHW5	2HHX6	2HHY7
3"	+0.000/-0.005"	+0.000/-0.005"	2HHW8	2HHX9	2HHZ1
4"	+0.000/-0.006"	+0.000/-0.006"	2HHX1	2HHY2	2AHA7
5½"	+0.000/-0.008"	+0.000/-0.008"	2AHA4	2AHA6	2AHA9
2" Thick					
4"	+0.000/-0.006"	+0.000/-0.006"	2HJE1	2AHD2	2AHD8
6"	+0.000/-0.008"	+0.000/-0.008"	2AHD1	2AHD4	2AHE1
2½" Thick					
3"	+0.000/-0.005"	+0.000/-0.005"	2HJE5	2AHE3	2AHE7
4" Thick					
6"	+0.000/-0.008"	+0.000/-0.008"	2AHG1	2AHG2	2AHG3

Dia.	Dia. Tolerance	1-FT. LENGTH Item No.	3-FT. LENGTH Item No.	6-FT. LENGTH Item No.
1045 Carbon Steel				
1"	+0.0000/-0.0010"	3ANL4	3ANG2	3GTC3
1¼"	+0.0000/-0.0010"	3ANL3	3ANG1	3GTC2
1½"	+0.0000/-0.0010"	3ANL2	3ANF9	3GTC1
1¾"	+0.0000/-0.0015"	3ANL1	—	3GTA9
1¾"	+0.0000/-0.0015"	—	3GTK1	—
2"	+0.0000/-0.0015"	3ANK9	3GTJ9	3GTA8
2½"	+0.0000/-0.0015"	—	—	3GTA6
3"	+0.0000/-0.0020"	3ANK5	3GTJ5	3GTA4
1018 Carbon Steel				
¼"	+0.000/-0.002"	2HJF4	—	2HJK5
⅜"	+0.000/-0.002"	2HJF5	2HJH6	2HJK6
½"	+0.000/-0.002"	2HJF6	2HJH7	2HJK7
⅝"	+0.000/-0.002"	2HJF7	2HJH8	2HJK8
¾"	+0.000/-0.002"	2HJF8	2HJH9	2HJK9
⅞"	+0.000/-0.002"	—	2HJJ1	2HJL1
1"	+0.000/-0.002"	2HJG1	2HJJ2	2HJL2
1¼"	+0.000/-0.002"	2HJG3	2HJJ4	2HJL4
1½"	+0.000/-0.002"	2HJG5	2HJJ6	2HJL6
2"	+0.000/-0.003"	2HJG8	2HJJ9	2HJL9
2¼"	+0.000/-0.003"	2HJH1	2HJK2	2AHJ3
2½"	+0.000/-0.003"	2HJH3	2HJK4	2AHJ5
3"	+0.000/-0.004"	2AHG4	2AHH4	2AHJ8
3½"	+0.000/-0.004"	2AHG6	2AHH6	—
4"	+0.000/-0.004"	2AHG8	2AHH8	2AHK3
5"	+0.000/-0.005"	2AHH1	2AHJ1	—
1144 Carbon Steel				
½"	+0.000/-0.003"	—	—	2HKC3
⅝"	+0.000/-0.003"	—	—	2HKC4
¾"	+0.000/-0.003"	—	—	2HKC5
12L14 Carbon Steel				
¼"	+0.000/-0.002"	—	—	2HJT4
⅜"	+0.000/-0.002"	—	—	2HJT5
½"	+0.000/-0.002"	—	—	2HJT6
⅝"	+0.000/-0.002"	—	—	2HJT7
¾"	+0.000/-0.002"	—	—	2HJT8
1"	+0.000/-0.002"	2HJP1	2HJR3	2HJU1
1215 Carbon Steel				
⅜"	+0.000/-0.002"	—	—	2HJZ2
½"	+0.000/-0.002"	—	—	2HJZ3
⅝"	+0.000/-0.002"	—	—	2HJZ4
¾"	+0.000/-0.002"	—	—	2HJZ5
1"	+0.000/-0.002"	—	—	2HJZ7



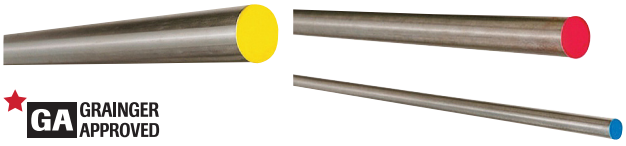
GA GRAINGER APPROVED

Carbon Steel—Cylindrical Rods

- 1045 alloy meets ASTM A108, UNS# G10450, AISI 1045
- 1018 alloy meets ASTM 108, UNS# G10180, AISI 1018
- 1144 alloy meets ASTM A311, UNS# G11440
- 12L14 alloy meets ASTM 108, UNS# G12144
- 1215 alloy meets ASTM 108, UNS# G12150, AISI 1215
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Precision 1045 centerless rounds have highly consistent dimensions and guaranteed tolerances. Machine-ready material increases throughput by helping to minimize preparation and setup times.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).



GA GRAINGER APPROVED

Tool Steel—Drill Rods

- Length: 36"
- Length tolerance: +.125"/-.000"
- Standards: UNS T30102, SAE J437, ASTM A-681-94, FEDERAL QQT-570 REV C

A2 Grade is used to replace 01 Grade for applications requiring safer heat treatment, less distortion during hardening, and greater wear resistance. Exhibit less movement during heat treating. 01 Grade provides dimensional stability (low movement) during hardening and high hardness response from low quenching temperatures. W1 Grade are used where a simple heat treatment is more important than wear resistance or high dimensional stability during heat treating.

Note: Additional sizes and grades are available; call 1-800-GRAINGER (472-4643).

Fractional Size	Decimal Equivalent	Dia. Tolerance	Item No.
A2 Grade - Air Hardening			
1⁄16"	0.4375"	±.0005"	33J247
1⁄2"	0.5000"	±.001"	33J236
3⁄4"	0.7500"	±.001"	33J241
1"	1.0000"	±.001"	33J234
1¼"	1.2500"	±.001"	33C661
O1 Grade - Oil Hardening			
3⁄16"	0.1875"	±0.0005"	33J307
1⁄4"	0.2500"	±.0005"	33J293
5⁄16"	0.3125"	±0.0005"	33J311
3⁄8"	0.3750"	±.0005"	33J310
1⁄2"	0.5000"	±.001"	33J292
5⁄8"	0.6250"	±.001"	33J314
3⁄4"	0.7500"	±.001"	33J309
7⁄8"	0.8750"	±.001"	33J318
1"	1.0000"	±.001"	33J290
1¼"	1.2500"	±.001"	33J297
1½"	1.5000"	±.001"	33J295
W1 Grade - Water Hardening			
3⁄16"	0.1875"	±.0005"	33J358
1⁄4"	0.2500"	±.0005"	33J351
3⁄8"	0.3750"	±.0005"	33J361
1⁄2"	0.5000"	±.001"	33J350
3⁄4"	0.7500"	±.001"	33J360
1"	1.0000"	±.001"	33J348
1¼"	1.2500"	±.001"	33E767
1 13⁄32"	1.4062"	±.001"	33E757
1 1⁄16"	1.4375"	±.001"	33E755



GA GRAINGER APPROVED

Tool Steel—Flat Stock

- 4142 Carbon Steel: UNS G41420, ASTM A-322
- A2 Grade and 01 Grade: , SAE J-437, ASTM A-681-07, FEDERAL QQT-570 REV C
- A2 Grade: UNS T30102
- 01 Grade: UNS T31501

4142 Carbon Steel is an alloy steel with added elements for good toughness and machinability in addition to fair wear resistance, formability, and weldability. A2 Grade is used to replace 01 Grade for applications requiring safer heat treatment, less distortion during hardening, and greater wear resistance. Exhibit less movement during heat treating. Low Carbon Steel features excellent formability and weldability, good machinability, and fair toughness and wear resistance. 01 Grade provides dimensional stability (low movement) during hardening and high hardness response from low quenching temperatures.

Note: Additional sizes and grades are available; call 1-800-GRAINGER (472-4643).

GROUND FLAT STOCK			TOLERANCES
Thickness			±.001"
Width			+.000/.005"
Squareness Edge			.003"
W	Thickness	Grade	Item No.
4142 Carbon Steel			
2½"	½"	4142	33D406
3"	⅛"	4142	33D429
6"	¼"	4142	33D454
A2 Grade - Air Hardening			
1"	1"	A2	33C717
2"	½"	A2	33J102
8"	3⁄32"	A2	33C980
Low Carbon Steel			
¼"	¼"	Low Carbon	33D147
3½"	⅛"	Low Carbon	33D266
O1 Grade - Oil Hardening			
3⁄16"	3⁄16"	O1	33D832
¼"	¼"	O1	33D798
⅜"	⅜"	O1	33J227
½"	½"	O1	33D777
2"	¼"	O1	33J192
	⅜"	O1	33J225
	⅛"	O1	33J206
3"	¼"	O1	33J194

Stainless Steel Information

These low-maintenance materials are often used in applications where corrosion resistance is critical. Stainless steels have a higher resistance to rust in many natural and man-made environments; however, it is important to use the appropriate grade of steel regarding strength, hardness, and workability requirements. See page 2192 for Stainless Steel Perforated Sheets.

300 SERIES—AUSTENITIC CHROMIUM-NICKEL ALLOYS

Type 302—Same corrosion resistance as 304, with slightly higher strength due to additional carbon.

Type 303—Free-machining version of 304, via addition of sulfur and phosphorus.

Type 304—The most-common grade; the classic 18/8 stainless steel. Offers excellent machining and welding characteristics. Widely accepted in dairy, beverage, and food product industries where sanitation and cleanliness are essential.

Type 316—The second most-common grade (after 304). Also known as marine-grade stainless steel, due to its increased resistance to chloride corrosion (compared to 304). It is resistant to the damaging effects of salts, reducing acids, and atmospheric and general corrosive conditions. For food and surgical stainless steel uses.

400C SERIES—FERRITIC AND MARTENISTIC CHROMIUM ALLOYS

Type 416—Easy to machine due to additional sulfur.

Type 430—Good formability, but with reduced temperature and corrosion resistance.

Type 440—A higher grade of cutlery steel, with more carbon, allowing better edge retention when properly heat treated. Can be hardened to above Rockwell 55 hardness.

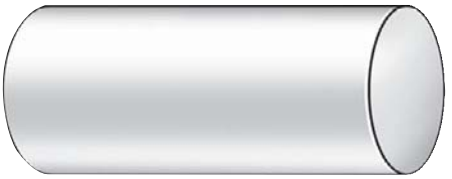
600 SERIES—MARTENISTIC PRECIPITATION HARDENING ALLOYS

Type 630—Most common PH stainless; better known as 17-4 (17% chromium, 4% nickel).

Stainless Steel Comparison Chart

Material	Tensile Strength* (psi)	Yield Strength* (psi)	Hardness*	Corrosion Resistance	Formability	Machinability	Weldability
Type 302	N/A	40,000	N/A	Good	Not Recommended	Good	Not Recommended
Type 303	90,000	35,000	160 (BHN)	Fair	Not Recommended	Excellent	Not Recommended
Type 304/304L	70,000	25,000	160 (BHN)	Good	Excellent	Good	Good
Type 316	81,900	30,000	160 (BHN)	Excellent	Excellent	Good	Good
Type 416	75,000	40,000	155 (BHN)	Poor	Not Recommended	Excellent	Not Recommended
Type 430	N/A	30,000	N/A	Good	Good	Good	Good
Type 440C	110,000	65,000	230 (BHN)	Poor	Poor	Fair	Poor
Type 17-4 PH	150,000	110,000	Max. 38 (Rc)	Good	Good	Fair	Good

**** Typical levels @ 1" dia.***



GA GRAINGER APPROVED

Stainless Steel Rod Stock

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Diameter	Dia. Tolerance	1 FT. LENGTH* Item No.	3 FT. LENGTH† Item No.	6 FT. LENGTH‡ Item No.
Type 303 - Unpolished/Cold Finished/Annealed				
Meets standards ASTM A582, ASTM A484, AMS 5640 T Type 1, AISI 303, UNS# S30300				
1/8"	±0.0015"	—	—	2EXC7
1/4"	±0.0015"	—	—	2EXC8
5/16"	±0.0015"	—	—	2EXC9
3/8"	±0.0015"	—	—	2EXD1
1/2"	±0.002"	—	2EXB1	2EXD2
5/8"	±0.002"	2EWZ4	2EXB2	2EXD3
3/4"	±0.002"	2EWZ5	2EXB3	2EXD4
7/8"	±0.002"	2EWZ6	2EXB4	2EXD5
1"	±0.0025"	2EWZ7	2EXB5	2EXD6
1 1/8"	±0.0025"	2EWZ8	2EXB6	2EXD7
1 1/4"	±0.0025"	2EWZ9	2EXB7	2EXD8
1 3/8"	±0.0025"	2EXA1	2EXB8	2EXD9
1 1/2"	±0.003"	2EXA2	2EXB9	2EXE1
1 5/8"	±0.003"	2EXA3	2EXC1	2EXE2
1 3/4"	±0.003"	2EXA4	2EXC2	2EXE3
2"	±0.003"	2EXA5	2EXC3	2EXE4
2 1/4"	±0.003"	2EXA6	2EXC4	1ZDF4
2 1/2"	±0.003"	2EXA7	2EXC5	1ZDF5
2 3/4"	±0.003"	2EXA8	2EXC6	1ZDF6
3"	±0.003"	2EXA9	1ZDF3	1ZDF7
Type 304 - Unpolished/Cold Finished/Annealed				
Meets standards ASTM A479, ASTM A182, AMS 5639, AMS 5647, AISI 304 304L, UNS# S30400 S30403				
3/8"	±0.0015"	—	—	2EXJ5
1/2"	±0.002"	—	2EXH3	2EXJ6
5/8"	±0.002"	—	2EXH4	2EXJ7
3/4"	±0.002"	2EXG3	2EXH5	2EXJ8
7/8"	±0.002"	2EXG4	2EXH6	2EXJ9
1"	±0.0025"	2EXG5	2EXH7	2EXK1
1 1/4"	±0.0025"	2EXG6	2EXH8	2EXK2
1 3/8"	±0.0025"	2EXG7	2EXH9	2EXK3
1 1/2"	±0.003"	2EXG8	2EXJ1	2EXK4
1 5/8"	±0.003"	2EXG9	2EXJ2	2EXK5
1 3/4"	±0.003"	2EXH1	2EXJ3	2EXK6
2"	±0.003"	2EXH2	2EXJ4	2EXK7

Diameter	Dia. Tolerance	1 FT. LENGTH* Item No.	3 FT. LENGTH† Item No.	6 FT. LENGTH‡ Item No.
Type 316 - Unpolished/Cold Finished/Annealed				
Meets standards ASTM A479, ASTM A182, AMS 5648, AMS 5653, AISI 316 316L, UNS# S31600 S31603				
3/8"	±0.0015"	3ANN5	3ANH3	3GTD4
1/2"	±0.002"	3ANN6	3ANH4	3GTD5
5/8"	±0.002"	3ANL5	3ANG3	3GTC4
3/4"	±0.002"	3ANL6	3ANG4	3GTC5
7/8"	±0.002"	3ANP6	3ANJ4	3GTH4
1"	±0.0025"	3ANL7	3ANG5	3GTC6
1 1/4"	±0.0025"	3ANL8	3ANG6	3GTC7
1 3/8"	±0.0025"	3ANL9	3ANG7	3GTC8
1 1/2"	±0.003"	3ANN1	3ANG8	3GTC9
1 5/8"	±0.003"	3ANN2	3ANG9	3GTD1
1 3/4"	±0.003"	3ANN3	3ANH1	3GTD2
2"	±0.003"	3ANN4	3ANH2	3GTD3
Type 416 - Unpolished/Cold Finished/Annealed				
Meets standards ASTM A484, ASTM A582, AISI 416, UNS# S41600, AMS 5610				
1/2"	±0.002"	—	2EXL5	2AVA7
3/4"	±0.002"	2EXK8	2EXL6	2AVA8
1"	±0.0025"	2EXK9	2EXL7	2AVA9
1 1/4"	±0.0025"	2EXL1	2EXL8	2AVB1
1 1/2"	±0.003"	2EXL2	2EXL9	2AVB2
1 3/4"	±0.003"	2EXL3	2AVA5	2AVB3
2"	±0.003"	2EXL4	2AVA6	2AVB4
Type 440C - Unpolished/Cold Finished/Annealed				
Meets standards AMS 5630, AMS 5880, ASTM A276, UNS# S44004, AISI 440C				
1/2"	±0.002"	2EXN1	2EXN9	2EXP5
1"	±0.0025"	2EXN2	—	2EXP6
1 1/2"	±0.003"	2EXN3	2EXP2	2EXP7
2"	±0.003"	2EXN4	2EXP3	1ZDG2
2 1/2"	+0.047/-0.000"	2EXN5	2EXP4	1ZDG3
3"	+0.047/-0.000"	2EXN6	1ZDF8	1ZDG4
3 1/2"	+0.047/-0.000"	2EXN7	1ZDF9	1ZDG5
4"	+0.062/-0.000"	2EXN8	1ZDG1	1ZDG6

Diameter	Dia. Tolerance	1 FT. LENGTH‡‡ Item No.	3 FT. LENGTH‡‡ Item No.
Type 302 - Mill/Spring			
Meets standards ASTM A313			
1/16"	±0.002"	48KU21	—
3/32"	±0.002"	48KU25	—
1/8"	±0.002"	48KU23	—
Type 303 - Mill/Annealed			
Meets standards ASTM A582, ASTM A320			
3/16"	±0.002"	48KU24	—
1/4"	±0.002"	48KU29	—
5/16"	±0.002"	48KU27	—
3/8"	±0.002"	48KU26	—
7/16"	±0.002"	48KU28	—
1/2"	±0.002"	48KU22	—
Type 303 - Mill/Extruded			
Meets standards ASTMA581			
1/4"	±0.003"	—	16NJ05
5/16"	±0.003"	—	16NJ06
3/8"	±0.003"	—	16NJ07

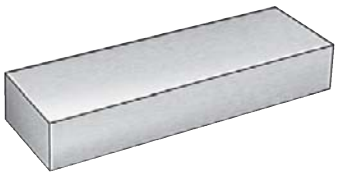
Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ‡‡ ±0.032".

Stainless Steel—Stock

GRAINGER APPROVED

- Width tolerance: +0.094"/-0.031"
- Length tolerance: ±1.000"
- Length: 6 ft.
- Meets ASTM A240 and A480 standards

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).



Width	Thickness Tolerance	Item No.
304 Alloy		
⅛" Thickness		
½"	±0.010"	4YTX6
⅝"	±0.010"	4YTX7
¾"	±0.010"	4YTX8
1"	±0.010"	4YTX9
1¼"	±0.010"	4YTY1
1½"	±0.010"	4YTY2
2"	±0.010"	4YTY3
3"	±0.010"	4YTY4
4"	±0.010"	4YTY5
6"	±0.010"	4YTY6
3⁄16" Thickness		
½"	+0.050/-0.010"	4YTY7
1"	+0.050/-0.010"	4YTY8
1¼"	+0.050/-0.010"	4YTY9
1½"	+0.050/-0.010"	4YTZ1
2"	+0.050/-0.010"	4YTZ2
2½"	+0.050/-0.010"	4YTZ3
3"	+0.050/-0.010"	4YTX5
4"	+0.050/-0.010"	4YTZ4
6"	+0.050/-0.010"	4YTZ5
¼" Thickness		
½"	+0.050/-0.010"	4YTZ6
¾"	+0.050/-0.010"	4YTZ7
1"	+0.050/-0.010"	4YTZ8
1¼"	+0.050/-0.010"	4YTZ9
1½"	+0.050/-0.010"	4YUA1
1¾"	+0.050/-0.010"	4YUA2
2"	+0.050/-0.010"	4YUA3
2½"	+0.050/-0.010"	4YUA4
3"	+0.050/-0.010"	4YUA5
3½"	+0.050/-0.010"	4YUA6
4"	+0.050/-0.010"	4YUA7
5"	+0.050/-0.010"	4YUA8
6"	+0.050/-0.010"	4YUA9
5⁄16" Thickness		
1"	+0.050/-0.010"	4YUD1
2"	+0.050/-0.010"	4YUD2
⅜" Thickness		
¾"	+0.60/-0.010"	4YUD4
1"	+0.60/-0.010"	4YUD5
1¼"	+0.60/-0.010"	4YUD6
1½"	+0.60/-0.010"	4YUD7
1¾"	+0.60/-0.010"	4YUD8
2"	+0.60/-0.010"	4YUD9
2½"	+0.60/-0.010"	4YUE1
3"	+0.60/-0.010"	4YUE2
4"	+0.60/-0.010"	4YUE3
5"	+0.60/-0.010"	4YUE4
6"	+0.60/-0.010"	4YUE5
½" Thickness		
¾"	+0.60/-0.010"	4YUE6
1"	+0.60/-0.010"	4YUE7
1¼"	+0.60/-0.010"	4YUE8
1½"	+0.60/-0.010"	4YUE9
1¾"	+0.60/-0.010"	4YUF1
2"	+0.60/-0.010"	4YUF2
2½"	+0.60/-0.010"	4YUF3
3"	+0.60/-0.010"	4YUF4
3½"	+0.60/-0.010"	4YUF5
4"	+0.60/-0.010"	4YUF6
5"	+0.60/-0.010"	4YUF7
6"	+0.60/-0.010"	4YUF8
⅝" Thickness		
1"	+0.60/-0.010"	4YUF9
1½"	+0.60/-0.010"	4YUG1
2"	+0.60/-0.010"	4YUG2
2½"	+0.60/-0.010"	4YUG3
3"	+0.60/-0.010"	4YUG4
5"	+0.60/-0.010"	4YUG5
¾" Thickness		
1"	+0.60/-0.010"	4YUG6
1½"	+0.050/-0.010"	4YUG7
2"	+0.050/-0.010"	4YUG8
2½"	+0.050/-0.010"	4YUG9
3"	+0.050/-0.010"	4YUH1
4"	+0.050/-0.010"	4YUH2
5"	+0.050/-0.010"	4YUH3
6"	+0.050/-0.010"	4YUH4
1" Thickness		
1¼"	+0.050/-0.010"	4YUH5
1½"	+0.050/-0.010"	4YUH6
2"	+0.050/-0.010"	4YUH7
2½"	+0.050/-0.010"	4YUH8
3"	+0.050/-0.010"	4YUH9
4"	+0.050/-0.010"	4YUJ1
5"	+0.050/-0.010"	4YUJ2
316 Alloy		
3⁄16" Thickness		
1"	+0.050 /-0.010"	4YTU5
¼" Thickness		
½"	+0.050 /-0.010"	4YTU6
1"	+0.050 /-0.010"	4YTU7
1½"	+0.050 /-0.010"	4YTU8
2"	+0.050 /-0.010"	4YTU9
2½"	+0.050 /-0.010"	4YTV1
3"	+0.050 /-0.010"	4YTV2
4"	+0.050 /-0.010"	4YTV3
5"	+0.050 /-0.010"	4YTV4
⅜" Thickness		
1"	+0.060/-0.010"	4YTV5
1½"	+0.060/-0.010"	4YTV6
2"	+0.060/-0.010"	4YTV7
2½"	+0.060/-0.010"	4YTV8
3"	+0.060/-0.010"	4YTV9
4"	+0.060/-0.010"	4YTW1
½" Thickness		
1"	+0.060/-0.010"	4YTW2
1½"	+0.060/-0.010"	4YTW3
2"	+0.060/-0.010"	4YTW4
2½"	+0.060/-0.010"	4YTW5
3"	+0.060/-0.010"	4YTW6
4"	+0.060/-0.010"	4YTW7
¾" Thickness		
1"	+0.060/-0.010"	4YTW8
1½"	+0.060/-0.010"	4YTW9
2"	+0.060/-0.010"	4YTX1
3"	+0.060/-0.010"	4YTX2
4"	+0.060/-0.010"	4YTX3
1" Thickness		
2"	+0.060/-0.010"	4YTX4

Stainless Steel—Precision Ground Blanks

GRAINGER APPROVED

Precision blanks have highly consistent dimensions with guaranteed tolerances. Machine-ready materials increase throughput to help minimize preparation and setup times. Type 304 meets ASTM A240 standard. Type 316 meet ASTM A240 and ASTM A167 standards.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).



Thickness	2.000" x 12.000"† Item No.	4.000" x 12.000"† Item No.	6.000" x 12.000"† Item No.	8.000" x 12.000"† Item No.	12.000" x 12.000"† Item No.	12.000" x 18.000"‡ Item No.
Type 304 - Mill/Annealed						
0.250"	1NZR1	1NZR3	1NZR4	1NZR5	1NZP8	—
0.375"	1NZR8	1NZT1	1NZT2	1NZT3	1NZR6	—
0.500"	1NZT6	1NZT8	1NZT9	1NZU1	1NZT4	—
0.625"	1NZU4	1NZU6	1NZU7	1NZU8	1NZU2	—
0.750"	1NZV2	1NZV4	1NZV5	1NZV6	1NZU9	—
1.000"	1NZV9	1NZW2	1NZW3	1NZW4	1NZV7	—
Type 316 - Mill/Annealed						
0.250"	1NZX6	1NZX8	1NZX9	1NZY1	1NZX2	1NZX3
0.375"	1NZY6	1NZY8	1NZY9	1NZZ1	1NZY2	1NZY3
0.500"	1NZZ6	1NZZ8	1NZZ9	1PAA1	1NZZ2	1NZZ3
0.625"	1PAA7	1PAB2	1PAB3	1PAB4	1PAA2	1PAA3
0.750"	1PAB9	1PAC2	1PAC3	1PAC4	1PAB5	1PAB6
1.000"	1UXE5	1UXE7	1UXE8	1UXE9	1PAC5	1UXE2

Thickness	12.000" x 24.000"‡ Item No.	18.000" x 18.000"‡ Item No.	24.000" x 24.000"‡ Item No.
Type 304 - Mill/Annealed			
0.250"	1NZP9	—	1NZR2
0.375"	1NZR7	—	1NZR9
0.500"	1NZT5	—	1NZT7
0.625"	1NZU3	—	1NZU5
0.750"	1NZV1	—	1NZV3
1.000"	1NZV8	—	1NZW1
Type 316 - Mill/Annealed			
0.250"	1NZX4	1NZX5	1NZX7
0.375"	1NZY4	1NZY5	1NZY7
0.500"	1NZZ4	1NZZ5	1NZZ7
0.625"	1PAA4	1PAA5	1PAA9
0.750"	1PAB7	1PAB8	1PAC1
1.000"	1UXE3	1UXE4	1UXE6

Thickness†	Width†	Length†	Item No.
Type 304 - Mill/Annealed			
2.000"	4.000"	6.000"	1NZW5
	4.000"	8.000"	1NZW6
3.000"	3.000"	3.000"	1NZW7
	6.000"	9.000"	1NZW9
	6.000"	12.000"	1NZW8
4.000"	4.000"	4.000"	1NZX1
Type 316 - Mill/Annealed			
2.000"	4.000"	6.000"	1UXF1
	4.000"	8.000"	1UXF2
3.000"	3.000"	3.000"	1UXF3
	6.000"	9.000"	1UXF5
	6.000"	12.000"	1UXF4
4.000"	4.000"	4.000"	1UXF6
5.000"	5.000"	5.000"	1UXF7

† Thickness, width, and length tolerances: ±0.002". ‡ Thickness tolerance: ±0.005"; width and length tolerances: ±0.002".

Stainless Steel—90° Angles

GRAINGER APPROVED

- Length: 7 ft.
- Leg Length tolerance: ±0.125/0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).



Leg Length	Finish	Temper	304 ALLOY Item No.	316 ALLOY Item No.
⅛" Thick				
ASTM A276 and A479, Annealed				
¾"	Mill	Hot Rolled	4YTL7	—
1"	Mill	Hot Rolled	4YTL8	4YTJ5
1¼"	Mill	Hot Rolled	4YTL9	4YTJ6
1½"	Mill	Hot Rolled	4YTN1	4YTJ7
2"	Mill	Hot Rolled	4YTN2	4YTJ8
ASTM A276 Condition A, QQ-S-763 Condition A				
1¼"	Unpolished	Annealed	3DRP6	—
1½"	Unpolished	Annealed	3DRP7	—
2"	Unpolished	Annealed	3DRP8	—
3⁄16" Thick				
ASTM A276 and A479, Annealed				
1"	Mill	Hot Rolled	4YTN3	4YTJ9
1¼"	Mill	Hot Rolled	4YTN4	4YTK1
1½"	Mill	Hot Rolled	4YTN5	4YTK2
2"	Mill	Hot Rolled	4YTN6	4YTK3
2½"	Mill	Hot Rolled	4YTN7	4YTK4

Leg Length	Finish	Temper	304 ALLOY Item No.	316 ALLOY Item No.
ASTM A276 Condition A, QQ-S-763 Condition A				
1½"	Unpolished	Annealed	3DRP9	—
2"	Unpolished	Annealed	3DRR1	—
¼" Thick				
ASTM A276 and A479, Annealed				
1"	Mill	Hot Rolled	4YTN8	4YTK5
1½"	Mill	Hot Rolled	4YTP1	4YTK7
2"	Mill	Hot Rolled	4YTP2	4YTK8
2½"	Mill	Hot Rolled	4YTP3	4YTK9
3"	Mill	Hot Rolled	4YTP4	4YTL1
4"	Mill	Hot Rolled	4YTP5	4YTL2
ASTM A276 Condition A, QQ-S-763 Condition A				
1½"	Unpolished	Annealed	3DRR2	—
2"	Unpolished	Annealed	3DRR3	—
⅜" Thick				
ASTM A276 and A479, Annealed				
3"	Mill	Hot Rolled	4YTP8	4YTL5
4"	Mill	Hot Rolled	4YTP9	4YTL6

Find information on Stainless Steel types on page 2188.


Leather Grain


Oxford


5-SM


7-GM


13-SD


3" Diamond


Engine Turn


Woodgrain


6-OM


Hammer Tone


Cambridge

GA GRAINGER APPROVED

Stainless Steel—Architectural Sheets

Note: For additional sizes and image detail, see Grainger.com®.

Texture	Finish	Gauge	Thickness (Decimal)	Thickness Tolerance	L	W	Item No.
Leather Grain	#4	16	0.058"	±0.003	24"	24"	**481F89**
Oxford	#4	16	0.058"	±0.003	48"	48"	**481G18**
Squares	BA	16	0.058"	±0.002	24"	24"	**481G41**
Vortex SV	Non-Directional	16	0.058"	±0.003	48"	48"	**481H21**
5-SM	#4	18	0.046"	±0.002	96"	48"	**481D82**
7-GM	#4	20	0.035"	±0.003	48"	48"	**481F18**
13-SD	BA	20	0.035"	±0.002	48"	48"	**481D63**
HL FPR	Hairline	20	0.035"	±0.004	48"	48"	**481F84**
Sand Star	BA	20	0.035"	±0.003	48"	48"	**481G39**
T22 Onyx Black HL FPR	Hairline	20	0.035"	±0.002	48"	48"	**481G78**
T22 Prestige Gold HL FPR	Hairline	20	0.035"	±0.002	48"	48"	**481G84**
T22 Prestige Gold Mirror	Mirror	20	0.035"	±0.002	48"	48"	**481G87**
T22 Quartz Bronze HL FPR	Hairline	20	0.035"	±0.002	48"	48"	**481G90**
T22 Quartz Bronze Mirror	Mirror	20	0.035"	±0.004	96"	48"	**481G94**
Windsor	#4	20	0.035"	±0.002	24"	24"	**481H32**
3" Diamond	#4	22	0.028"	±0.0015	24"	24"	**481D65**
Engine Turn	BA	22	0.028"	±0.004	24"	24"	**481F47**
Linen	BA	22	0.028"	±0.004	24"	24"	**481G11**
Super Mirror	Mirror	22	0.028"	±0.002	96"	48"	**481G76**
Woodgrain	#4	22	0.028"	±0.0015	24"	24"	**481H47**
6-OM	#4	24	0.023"	±0.0015	48"	48"	**481F12**
Hammer Tone	#4	24	0.023"	±0.0015	24"	24"	**481F77**
Cambridge	#4	26	0.017"	±0.004	24"	24"	**481F32**
Stucco	#4	26	0.017"	±0.004	48"	48"	**481G63**



GA GRAINGER APPROVED

Stainless Steel—Square Stock

- Length: 6 ft.
- Length tolerance: ±1.000"

Meet ASTM A276 and A479 standards.

Size	Width & Thickness Tolerance	304 ALLOY Item No.	316 ALLOY Item No.
¼"	+0.000/-0.002"	**4YTT5**	**4YTR1**
5/16"	+0.000/-0.003"	—	**4YTR2**
⅜"	+0.000/-0.003"	**4YTT6**	**4YTR3**
½"	+0.000/-0.004"	**4YTT7**	**4YTR4**
⅝"	+0.000/-0.004"	**4YTT8**	**4YTR5**
¾"	+0.000/-0.004"	**4YTT9**	**4YTR6**
⅞"	+0.000/-0.004"	—	**4YTR7**
1"	+0.000/-0.004"	**4YTU1**	**4YTR8**
1⅛"	+0.000/-0.006"	—	**4YTR9**
1½"	+0.000/-0.006"	**4YTU3**	**4YTT2**
2"	+0.000/-0.006"	**4YTU4**	**4YTT4**



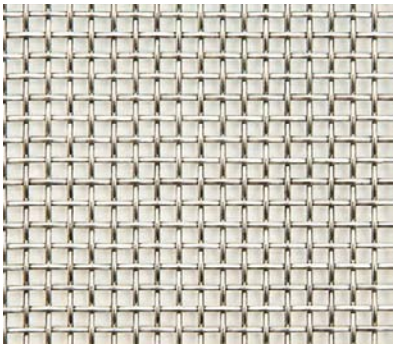
GA GRAINGER APPROVED

Stainless Steel—Square Ornamental Tubing

- Length 6 ft.
- Wall thickness ±0.100"/ length tolerances: ±1.000"

Meets ASTM A554 standards.

Outside Square	Inside Square	Wall Thickness	Outside Square Tolerance	Item No.
304 Alloy				
½"	⅜"	0.065"	±0.015"	**4YUJ3**
¾"	⅝"	0.065"	±0.015"	**4YUJ4**
1"	¾"	0.120"	±0.020"	**4YUL5**
	27/32"	0.083"	±0.020"	**4YUJ9**
	⅞"	0.065"	±0.015"	**4YUJ5**
1¼"	1 1/64"	0.083"	±0.020"	**4YUL1**
	1 1/64"	0.120"	±0.020"	**4YUL6**
	1⅛"	0.065"	±0.015"	**4YUJ6**
1½"	1⅛"	0.180"	±0.030"	**4YUM3**
	1¼"	0.120"	±0.020"	**4YUL7**
	1 1/32"	0.083"	±0.020"	**4YUL2**
	1⅜"	0.065"	±0.020"	**4YUJ7**
1¾"	1 3/64"	0.083"	±0.020"	**4YUL3**
2"	1½"	0.250"	±0.030"	**4YUM8**
	1 41/64"	0.180"	±0.030"	**4YUM4**
	1¾"	0.120"	±0.020"	**4YUL8**
	1 27/32"	0.083"	±0.020"	**4YUL4**
	1⅞"	0.065"	±0.020"	**4YUJ8**
2½"	2"	0.250"	±0.030"	**4YUM9**
	2¼"	0.120"	±0.020"	**4YUL9**
3"	2½"	0.250"	±0.030"	**4YUN1**
	2¾"	0.120"	±0.030"	**4YUM1**
6"	5½"	0.250"	±0.060"	**4YUN4**



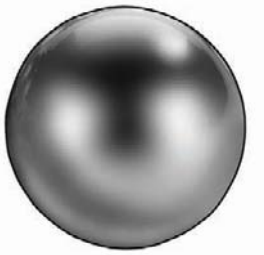
GA GRAINGER APPROVED

Wire Cloth—304 Stainless Steel, Milling Grade

Lighter wire diameters than standard (market) grade provide a greater percentage of open area in the screen cloth.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Mesh Size (Holes per Inch)	Opening Size	Open Area (%)	Wire Dia.	Width	Length	Item No.
Coarse	0.7500"	77.0	0.1050"	48"	48"	**3DLG8**
	1.0000"	79.7	0.1200"	48"	48"	**3DLG5**
		81.9	0.1050"	48"	48"	**3DLG6**
2 x 2	0.4370"	76.4	0.0630"	48"	48"	**3GNP7**
4 x 4	0.2150"	74.0	0.0350"	48"	48"	**3AKJ1**
6 x 6	0.1200"	51.5	0.0470"	48"	48"	**3GNR7**
	0.1260"	57.2	0.0410"	48"	48"	**3GNR8**
10 x 10	0.0880"	64.0	0.0200"	48"	48"	**3AKJ4**
24 x 24	0.0277"	44.2	0.0140"	48"	48"	**3DNT8**



GA GRAINGER APPROVED

Stainless Steel Balls

- Dia. tolerance: +/-0.0005 (302 and 316 alloy)
- Dia. tolerance: +/-0.0001 (404C alloy)

Dia.	UOM Qty 2 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	100 Item No.
302 Alloy						
1/16"	—	—	—	—	—	**49AE83**
3/32"	—	—	—	—	—	**4RJK3**
⅛"	—	—	—	—	—	**4RJK4**
5/32"	—	—	—	—	—	**4RJK5**
3/16"	—	—	—	—	—	**4RJK6**
7/32"	—	—	—	—	—	**4RJK7**
¼"	—	—	—	—	—	**4RJK8**
⅜"	—	—	—	**4RJK9**	—	—
½"	—	—	—	**4RJL1**	—	—
316 Alloy						
3/32"	—	—	—	—	—	**4RJL2**
⅛"	—	—	—	—	—	**4RJL3**
5/32"	—	—	—	—	—	**4RJL4**
3/16"	—	—	—	—	—	**4RJL5**
7/32"	—	—	—	—	—	**4RJL6**
¼"	—	—	—	—	—	**4RJL7**
5/16"	—	—	—	**4RJL8**	—	—
⅜"	—	—	—	**4RJL9**	—	—
½"	—	—	—	**49AE84**	—	—

Dia.	UOM Qty 2 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	100 Item No.
440C Alloy						
1/16"	—	—	—	—	—	**4RJH2**
5/64"	—	—	—	—	—	**4RJH3**
3/32"	—	—	—	—	—	**4RJH4**
⅛"	—	—	—	—	—	**4RJH5**
9/64"	—	—	—	—	—	**4RJH6**
5/32"	—	—	—	—	—	**4RJH7**
3/16"	—	—	—	—	—	**4RJH8**
7/32"	—	—	—	—	—	**4RJH9**
¼"	—	—	—	—	—	**4RJJ1**
9/32"	—	—	—	—	—	**4RJJ2**
5/16"	—	—	—	—	—	**4RJJ3**
11/32"	—	—	—	—	**4RJJ4**	—
⅜"	—	—	—	—	**4RJJ5**	—
7/16"	—	—	—	—	**4RJJ6**	—
½"	—	—	—	**4RJJ7**	—	—
9/16"	—	—	—	**4RJJ8**	—	—
⅝"	—	—	**4RJJ9**	—	—	—
¾"	—	**4RJK1**	—	—	—	—
1"	**4RJK2**	—	—	—	—	—



GA GRAINGER APPROVED

Stainless Steel—Sheet Metal Strips

- Length tolerance: ±0.0625" for Mill; ±0.032" for 432BA
- Thickness tolerance: ±0.002"
- Width tolerance: ±0.005"

Offer good formability and corrosion resistance. Strips can be cut, drilled, soldered, or shaped. Meet ASTM A240 standard.

Width	Length	Thickness	Item No.
Type 430 - 432BA/Annealed			
6"	12"	0.012"	5MWR2
	12"	0.018"	5MWR3
	12"	0.025"	5MWR4
Type 430 - Mill/Annealed			
½"	12"	0.012"	48KU36
	12"	0.018"	48KU40
	12"	0.025"	48KU43
¾"	12"	0.012"	48KU38
	12"	0.018"	48KU41
	12"	0.025"	48KU44
1"	12"	0.012"	48KU37
	12"	0.018"	48KU39
	12"	0.025"	48KU42



GA GRAINGER APPROVED

Stainless Steel—Plates

- Width and length tolerances: ± 0.125/0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Thickness Tolerance	6" x 6" Item No.	12" x 12" Item No.
Type 17-4 PH - Unpolished/Annealed			
Meets standards ASTM A693-03, AMS 5604, UNS# S17400			
3/16"	+0.045/-0.010"	2EXP8	2EXR3
¼"	+0.045/-0.010"	2EXP9	2EXR4
⅜"	+0.055/-0.010"	2EXR1	2EXR5
½"	+0.055/-0.010"	2EXR2	2EXR6
Type 304/304L - Unpolished/Annealed			
Meets standards ASME SA240, ASTM A240, A480, AMS 5511H, 5513H			
3/16"	+0.045/-0.010"	4ZDT4	4ZDT5
¼"	+0.045/-0.010"	4ZDT8	4ZDT9
⅜"	+0.055/-0.010"	4ZDU3	4ZDU4
½"	+0.055/-0.010"	4ZDU7	4ZDU8

GA GRAINGER APPROVED

Stainless Steel—Wire

- Sold in 1-lb. coils
- Excellent corrosion resistance

Smooth-finish, full-hard, Type 302 wire is spring-tempered for industrial uses including wire forms, control linkages, springs, armature binding, and ceramic cutting. Comes in an easy-to-use dispenser box. Meets ASTM A555, ASTM A313, ASTM A580, and AMS 5688 standards.



Thickness	Wire Gauge No.	Feet (1 lb. coils) Feet per Lb.	Min. Tensile Strength (psi)	Item No.
0.006" / 0.152mm	—	10,404.0	325,000	5XB95
0.007" / 0.178mm	—	7644.0	325,000	5XE81
0.008" / 0.203mm	—	5853.0	325,000	5XE82
0.009" / 0.229mm	—	4624.0	325,000	5XE83
0.010" / 0.254mm	—	3746.0	320,000	5XE84
0.011" / 0.279mm	—	3096.0	318,000	5XE85
0.012" / 0.305mm	—	2601.0	316,000	5XE86
0.013" / 0.330mm	—	2217.0	314,000	5XE87
0.014" / 0.356mm	—	1911.0	312,000	5XE88
0.016" / 0.406mm	—	1464.0	308,000	5XE89
0.018" / 0.457mm	—	1156.0	304,000	5XE90
0.020" / 0.508mm	—	937.0	300,000	5XE91
0.022" / 0.559mm	—	774.0	296,000	5XE92
0.024" / 0.610mm	—	651.0	292,000	5XE93
0.026" / 0.660mm	—	555.0	291,000	5XE94
0.029" / 0.737mm	—	446.0	285,000	5XE95
0.031" / 0.787mm	—	390.0	285,000	5XE96
0.033" / 0.838mm	—	344.0	282,000	5XE97
0.035" / 0.889mm	—	306.0	280,000	5XE98
0.037" / 0.940mm	—	274.0	280,000	5XE99
0.039" / 0.991mm	—	247.0	275,000	5XU10
0.041" / 1.041mm	—	223.0	275,000	5XU11
0.043" / 1.092mm	—	203.0	272,000	5XU12
0.045" / 1.143mm	—	185.0	272,000	5XU13
0.0475" / 1.207mm	21	166.0	267,000	5XU14
0.050" / 1.270mm	22	150.0	267,000	5XU15
0.051" / 1.295mm	—	144.0	265,000	5XU16
0.055" / 1.397mm	—	124.0	261,000	5XU17
0.059" / 1.499mm	—	108.0	258,000	5XU18
0.0625" / 1.588mm	26	97.0	258,000	5XU19

GA GRAINGER APPROVED

Steel Wire—Bale Ties

- Galvanized finish

Gauge	Length	Item No.	Pkg. Qty.
Single Loop Bundle			
12 ga.	18 ft.	20Y785	125
	21 ft.	20Y786	125
13 ga.	13 ft.	20Y783	250
	14 ft.	20Y784	250
14 ga.	13 ft.	20Y781	250
	14 ft.	20Y782	250



No. 20Y781



GA GRAINGER APPROVED

Carbon Steel—Music Wire

- Sold in 1-lb. coils

Spring-tempered wire is used for control linkages, ceramic cutting, armature binding, wire forms, springs, and other industrial uses. Packaged in an easy-to-use pull-dispenser box, except Nos. 15V232 and 15V233 come in tubes. Meets ASTM A228 standard.

High-Carbon Steel—1085 carbon steel alloy provides high tensile strength and high fatigue resistance.

Spring Steel—Full-hard, smooth-finish 300 Series stainless steel provides excellent corrosion resistance.

Thickness	Feet (1 lb. coils) Feet per Lb.	Min. Tensile Strength (psi)	Item No.
High Carbon Steel Alloy			
0.006" / 0.152mm	10,404.0	415,000	3L529
0.007" / 0.178mm	7644.0	407,000	3L532
0.008" / 0.203mm	5853.0	399,000	3L534
0.009" / 0.229mm	4624.0	393,000	3L536
0.010" / 0.254mm	3746.0	387,000	3L538
0.011" / 0.279mm	3096.0	382,000	3L541
0.012" / 0.305mm	2601.0	377,000	3L543
0.013" / 0.330mm	2217.0	373,000	3L545
0.014" / 0.356mm	1911.0	369,000	3L547
0.016" / 0.406mm	1464.0	362,000	3L549
0.018" / 0.457mm	1156.0	356,000	3L552
0.020" / 0.508mm	937.0	350,000	3L554
0.022" / 0.559mm	774.0	345,000	3L556
0.024" / 0.610mm	651.0	341,000	3L558
0.026" / 0.660mm	555.0	337,000	3L561
0.029" / 0.737mm	446.0	331,000	3L563
0.031" / 0.787mm	390.0	328,000	3L565
0.033" / 0.838mm	344.0	325,000	3L567
0.035" / 0.889mm	306.0	322,000	3L569
0.037" / 0.940mm	274.0	319,000	3L572
0.039" / 0.991mm	247.0	316,000	3L574
0.041" / 1.041mm	223.0	314,000	3L576
0.043" / 1.092mm	203.0	311,000	3L578
0.045" / 1.143mm	185.0	309,000	3L581
0.047" / 1.194mm	170.0	307,000	3L583
0.049" / 1.245mm	156.0	304,000	3L585
0.051" / 1.295mm	144.0	303,000	3L587
0.055" / 1.397mm	124.0	300,000	3L589
0.059" / 1.499mm	108.0	296,000	3L592
0.063" / 1.600mm	95.0	293,000	3L594
Spring Steel			
0.039"	248.0	318,000	15V223
0.015"	1666.0	365,000	15V224
0.020"	937.0	350,000	15V225
0.025"	600.0	341,000	15V226
0.032"	366.0	327,000	15V227
0.047"	171.0	306,000	15V228
0.055"	122.0	300,000	15V229
0.062"	96.2	293,000	15V230
0.078"	61.2	282,000	15V231
0.094"	43.0	274,000	15V232
0.125"	24.0	261,000	15V233



Raised

DIRECT METALS® DM®

Expanded Metal Sheets

Strong, rigid sheets allow air and light to pass through. Mesh construction is easily shaped, welded, and cut. Flat sheets provide a smooth surface. Raised sheets are used in applications that require surface traction.

Overall Thickness	Trade Size	Opening Size	4 FT. X 4 FT. Item No.	4 FT. X 8 FT. Item No.
1008 Carbon Steel - Cold Rolled Temper (Mill)				
Flat				
0.030"	¼"-#20	0.094 x 0.688"	—	5PAY5
0.040"	¼"-#18	0.094 x 0.688"	5PCJ3	5PAY3
0.050"	½"-#16	0.250 x 1.000"	—	5PAX9
0.070"	½"-#13	0.250 x 1.000"	—	5PAX4
	¾"-#13	0.688 x 1.782"	—	5PAX6
	1½"-#13	1.063 x 2.750"	—	5PAX5
0.110"	1½"-#9	1.000 x 2.563"	—	5PAY6
0.120"	¾"-#9	0.563 x 1.688"	—	5PAY7
Raised				
0.125"	¼"-#18	0.172 x 0.719"	5PCN3	5PAZ8
0.157"	½"-#16	0.375 x 0.938"	5PCL7	5PAZ4
0.182"	½"-#13	0.313 x 0.938"	—	5PAZ0
0.195"	¾"-#13	0.750 x 1.688"	—	5PAZ2
0.215"	1½"-#13	1.188 x 2.500"	—	5PAZ1
0.295"	1½"-#9	1.125 x 2.375"	—	5PCA1
0.300"	¾"-#9	0.688 x 1.562"	5PCR3	5PCA3
3003 Aluminum - H14 Temper (Mill)				
Flat				
0.055"	1½"-#0.081	1.063 x 2.750"	—	5PAW1
0.060"	½"-#0.081	0.313 x 1.000"	5PCD9	5PAW0
0.070"	¾"-#0.081L	0.688 x 1.750"	5PCE3	5PAW3
	¾"-#0.081	0.688 x 1.750"	5PCE1	5PAW2
0.080"	1½"-#0.125	1.000 x 2.750"	5PCE6	5PAW4
0.095"	¾"-#0.125	0.625 x 1.750"	5PCE7	5PAW5
Raised				
0.186"	½"-#0.081	0.375 x 0.938"	5PCF5	5PAW8
0.200"	¾"-#0.081L	0.750 x 1.688"	5PCF9	5PAX1
0.240"	1½"-#0.081	1.188 x 2.500"	—	5PAW9
0.300"	1½"-#0.125	1.188 x 2.500"	5PCG2	5PAX2
0.305"	¾"-#0.125	0.688 x 1.688"	5PCG3	5PAX3
304 Stainless Steel - 2B Temper (Mill)				
Flat				
0.040"	½"-#18	0.313 x 1.000"	5PCU4	5PCC2
0.050"	½"-#16	0.313 x 1.000"	5PCU0	5PCA9
	¾"-#16	0.750 x 1.813"	5PCU2	5PCC1
	1½"-#16	1.063 x 2.750"	5PCU1	5PCC0
0.070"	¾"-#13	0.625 x 1.750"	5PCT6	5PCA8
0.080"	1½"-#13	1.000 x 2.625"	5PCT5	5PCA7
0.120"	¾"-#9	0.563 x 1.688"	5PCU6	5PCC3
Raised				
0.164"	½"-#18	0.438 x 0.938"	5PCV9	5PCC9
	½"-#16	0.438 x 0.938"	5PCV5	5PCC6
0.200"	¾"-#13	0.750 x 1.688"	5PCV1	5PCC5
	¾"-#16	0.813 x 1.750"	5PCV7	5PCC8
0.220"	1½"-#13	1.250 x 2.625"	5PCV0	5PCC4
316 Stainless Steel - (Annealed)				
Flat				
0.050"	½"-#16	0.313 x 1.000"	5PCT3	5PCD1
0.070"	¾"-#13	0.625 x 1.750"	5PCT1	5PCD0
Zinc Galvanized Carbon Steel - Hot Rolled				
0.050"	½"-#16	0.250 x 1.000"	5PCR7	5PCA5
0.070"	½"-#13	0.250 x 1.000"	5PCR5	5PCA4
0.120"	¾"-#9	0.563 x 1.688"	5PCR9	—
Zinc Galvanized Galvanized Steel - Hot Rolled				
0.120"	¾"-#9	0.563 x 1.688"	—	5PCA6



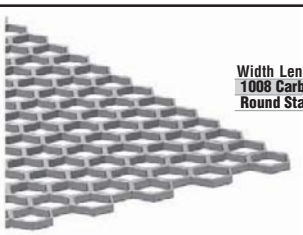
Wire Mesh— PVC Coated Galvanized

DIRECT METALS® DM®

Coated welded wire can handle intensive use without stripping or peeling in industrial, cage, and marine applications.

Mesh Size	Color	Wire Dia.	Opening Size	4 ft.W x 48"L Item No.	4 ft.W x 96"L Item No.
Wire Mesh PVC Coated Galvanized					
Fine					
½" x ½"	Black	0.063"	0.437"	49N578	49N580
	Yellow	0.063"	0.437"	49N588	49N590
Medium					
1" x 1"	Black	0.080"	0.920"	49N598	49N601
	Black	0.105"	0.895"	49N609	49N611
	Yellow	0.105"	0.895"	49N619	49N621
Coarse					
1½"	Yellow	0.105"	1.395"	—	49N641
	Black	0.105"	1.395"	49N629	49N631
2"	Yellow	0.105"	1.895"	49N659	49N661
	Black	0.105"	1.895"	49N649	49N651

Staggered Hex
No. 5PDC5



DIRECT METALS® DM®

Perforated Sheets

Used in multiple applications, these sheets are available in staggered or straight patterns, with various hole diameters and open area percentages.

Width	Length	Thickness	Gauge	Hole Dia.	Center Spacing	Open Area	Item No.
3003 Aluminum - H14 Temper (Mill)							
Round Staggered Pattern							
36"	40"	0.032"	20	0.062"	7/64"	30%	5PDC8
		0.032"	20	0.062"	1/8"	23%	5PDC7
		0.032"	20	0.125"	3/16"	40%	5PDC6
		0.032"	20	0.188"	1/4"	51%	5PDC9
		0.032"	20	0.250"	5/16"	58%	5PDC4
		0.050"	16	0.062"	1/8"	23%	5PDC0
		0.050"	16	0.125"	3/16"	40%	5PDA9
		0.050"	16	0.188"	1/4"	51%	5PDC2
		0.050"	16	0.250"	3/8"	40%	5PDA8
		0.063"	14	0.125"	3/16"	40%	5PDA6
		0.063"	14	0.188"	1/4"	51%	5PDA7
		0.063"	14	0.250"	3/8"	40%	5PDA5
Hex Staggered Pattern							
36"	40"	0.032"	20	0.250"	9/32"	77%	5PDC5
1008 Carbon Steel - Cold Rolled Temper (Mill)							
Round Staggered Pattern							
36"	40"	0.036"	20	0.063"	1/8"	23%	5PDH0
		0.048"	18	0.063"	7/64"	30%	5PDF8
		0.048"	18	0.063"	1/8"	23%	5PDF7
		0.048"	18	0.078"	1/8"	35%	5PDF4
		0.048"	18	0.094"	5/32"	33%	5PDG2
		0.048"	18	0.125"	3/16"	40%	5PDF6
		0.048"	18	0.156"	7/32"	46%	5PDG0
		0.048"	18	0.188"	1/4"	51%	5PDG1
		0.048"	18	0.250"	5/16"	58%	5PDF5
		0.060"	16	0.063"	7/64"	30%	5PDE3
		0.060"	16	0.063"	1/8"	23%	5PDE2
		0.060"	16	0.078"	1/8"	35%	5PDD6
		0.060"	16	0.094"	5/32"	33%	5PDF1
		0.060"	16	0.125"	3/16"	40%	5PDE1
		0.060"	16	0.156"	3/16"	63%	5PDE5
		0.060"	16	0.156"	7/32"	46%	5PDE6
		0.060"	16	0.188"	1/4"	50%	5PDF0
		0.060"	16	0.188"	5/16"	32%	5PDE9
		0.060"	16	0.250"	5/16"	58%	5PDE0
		0.060"	16	0.250"	3/8"	40%	5PDD9
		0.060"	16	0.313"	7/16"	46%	5PDF2
		0.060"	16	0.375"	9/16"	40%	5PDE8
		0.060"	16	0.500"	11/16"	48%	5PDD7
		0.075"	14	0.250"	3/8"	40%	5PDD3
		0.075"	14	0.375"	9/16"	40%	5PDD4
		0.075"	14	0.500"	11/16"	48%	5PDD2
		0.250"		0.250"	3/8"	40%	5PDJ7
Square Straight Pattern							
36"	40"	0.060"	16	0.500"	11/16"	53%	5PDD8

Width	Length	Thickness	Gauge	Hole Dia.	Center Spacing	Open Area	Item No.
304 Stainless Steel - Annealed Temper (2B)							
Round Staggered Pattern							
36"	40"	0.048"	18	0.094"	5/32"	33%	5PDL0
		0.048"	18	0.125"	3/16"	40%	5PDK8
		0.048"	18	0.188"	1/4"	51%	5PDK9
		0.048"	18	0.250"	5/16"	58%	5PDK7
		0.048"	18	0.250"	3/8"	40%	5PDK0
		0.060"	16	0.125"	3/16"	40%	5PDK5
		0.060"	16	0.188"	1/4"	51%	5PDK6
		0.060"	16	0.250"	5/16"	58%	5PDK4
		0.060"	16	0.250"	3/8"	40%	5PDJ8
		0.075"	14	0.125"	3/16"	40%	5PDK3
		0.075"	14	0.250"	3/8"	40%	5PDK2
		0.120"	11	0.250"	3/8"	40%	5PDK1

Width	Length	Thickness	Hole Dia.	Center Spacing	Open Area	Item No.
Polypropylene - White						
Round Staggered Pattern						
48"	32"	0.063"	0.125"	3/16"	40%	5PCY1
		0.125"	0.125"	3/16"	40%	5PCX3
		0.125"	0.188"	5/16"	32%	5PCX2
	96"	0.063"	0.125"	3/16"	40%	5PCY4
		0.125"	0.125"	3/16"	40%	5PCX9
		0.125"	0.188"	5/16"	32%	5PCX8
Round Straight Pattern						
48"	32"	0.125"	0.250"	1/2"	20%	5PCW9
		0.250"	0.250"	1/2"	20%	5PCW5
	96"	0.250"	0.250"	1/2"	20%	5PCW7
PVC - Gray						
Round Staggered Pattern						
48"	32"	0.250"	0.500"	11/16"	48%	5PCY9
	96"	0.063"	0.125"	3/16"	40%	5PDA2
		0.125"	0.125"	3/16"	40%	5PCZ8

Bar Grating Information

Designed to provide safe, secure footing for many applications, bar grating is a strong choice for projects ranging from trenches to decking.

STAIR TREAD

Constructed like other bar grating, with stair-specific additional reinforcement and extra safety adjustments. A nosing is attached to the leading edge for increased edge visibility and slip resistance. Nosings may be grooved or checker plate (also known as diamond plate).

DEFINITIONS

Anchors—Devices that attach grating to its supports.

Band—A flat bar welded to the end of a grating panel or along the line of a cutout. Extends neither above nor below the bearing bars. A load-carrying band transfers the load from unsupported bearing bars to supported bearing bars. A trim band carries no load; used to improve appearance.

Bearing Bar—Load-carrying bar that extends in the direction of the span.

Cross Bar—The connecting bar that intersects or curves between the bearing bars and is welded, forged, or mechanically locked to them.

Cutout—An area of grating removed to clear an obstruction or let pipes, ducts, or columns pass through.

Grating—Open grid assembly of metal bars with bearing bars running in one direction, spaced by rigid attachment to cross bars that run perpendicularly or by bent connecting bars that extend between them.

Length—The span of grating or distance between points of grating support.

Width—Measured perpendicular to the bearing bars and in the same direction as the cross bars to determine the overall dimension of a grating panel.

SURFACES

Serrated—Grips shoes tightly for high slip resistance. Offers good slip protection in areas prone to oil or other hazardous materials.

Smooth—All-purpose slip-resistant design's texture is less harsh underfoot than serrated.

MATERIALS

Aluminum—Good where a lightweight, corrosion-resistant material is desired.

Steel—Strong material is good to use if the environment is not expressly corrosive.

304 Stainless Steel—Stronger than aluminum, stainless steel provides superior corrosion and oxidation resistance.

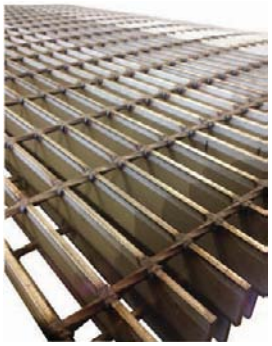
JOINING METHODS

Pressure Locked (Dovetail)—Cross bars are mechanically locked to the bearing bars at their intersections. Permanent joints give long-lasting service under normal conditions.

Riveted—Straight bearing bars and bent connecting bars are riveted together at their contact points. Reliable and durable.

Swage Locked—A cost-effective and reliable pressure locking method.

Welded—Joined at the intersection of the bearing bars and cross bars. A versatile choice for light to moderate loads. The most common way aluminum bar grating is manufactured.



DIRECT METALS® DM

Bar Grating

- Bearing bar spacing: 1.188"
- Cross bar spacing: 4"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

H	Span	Bearing Bar Thickness	SMOOTH SURFACE 24" W Item No.	SMOOTH SURFACE 36" W Item No.	SMOOTH SURFACE 48" W Item No.	SERRATED SURFACE 24" W Item No.	SERRATED SURFACE 36" W Item No.	SERRATED SURFACE 48" W Item No.
Aluminum								
1"	24"	0.125"	49N295	49N302	—	—	—	—
	36"	0.125"	49N296	49N303	—	—	—	—
		0.188"	49N315	49N321	49N327	49N424	49N430	49N436
	48"	0.188"	49N316	49N322	49N328	49N425	49N431	49N437
	72"	0.125"	49N298	49N305	—	—	—	—
		0.188"	49N317	49N323	49N329	49N426	49N432	49N438
	96"	0.125"	49N299	49N306	—	—	—	—
		0.188"	49N318	49N324	49N330	49N427	49N433	49N439
	120"	0.125"	49N301	49N307	—	—	—	—
		0.188"	49N319	49N325	49N331	49N428	—	49N440
1.25"	144"	0.125"	—	—	—	38ML50	—	—
		0.188"	—	—	—	—	38MC97	—
1"		0.188"	—	—	—	—	38ML94	—
304 Stainless Steel								
1"	24"	0.188"	49N223	49N229	—	49N259	49N265	—
	36"	0.188"	49N224	49N230	—	49N260	49N266	—
	48"	0.188"	49N225	49N231	—	49N261	49N267	—
	72"	0.188"	49N226	49N232	—	49N262	49N268	—
	96"	0.188"	49N227	49N233	—	49N263	49N269	—
	120"	0.188"	49N228	49N234	—	49N264	49N270	—

H	Span	Bearing Bar Thickness	BLACK PAINTED STEEL SERRATED SURFACE 24" W Item No.	BLACK PAINTED STEEL SERRATED SURFACE 36" W Item No.	BLACK PAINTED STEEL SMOOTH SURFACE 24" W Item No.	BLACK PAINTED STEEL SMOOTH SURFACE 36" W Item No.	GALVANIZED STEEL SERRATED SURFACE 24" W Item No.	GALVANIZED STEEL SERRATED SURFACE 36" W Item No.	GALVANIZED STEEL SMOOTH SURFACE 24" W Item No.	GALVANIZED STEEL SMOOTH SURFACE 36" W Item No.
Painted/Galvanized Steel										
1"	24"	0.125"	49N005	49N011	49M895	49M902	49N174	49N180	49N065	—
		0.188"	49N017	49N023	49M908	—	—	49N192	49N077	—
		0.250"	—	—	—	49M926	—	—	—	49N095
	36"	0.125"	49N006	49N012	49M896	49M903	49N175	49N181	49N066	49N072
		0.188"	49N018	49N024	49M909	49M915	49N187	49N193	49N078	49N084
		0.250"	—	—	—	49M927	—	—	—	49N096
	48"	0.125"	49N007	49N013	49M897	49M904	49N176	49N182	49N067	49N073
		0.188"	49N019	49N025	49M910	49M916	49N188	49N194	49N079	—
		0.250"	—	—	—	—	—	—	—	49N097
	72"	0.125"	49N008	49N014	49M898	49M905	49N177	49N183	49N068	—
		0.188"	49N020	49N026	49M911	49M917	49N189	—	49N080	49N086
	96"	0.125"	49N009	49N015	49M899	49M906	49N178	49N184	49N069	49N075
		0.188"	49N021	49N027	49M912	—	—	—	49N081	49N087
		0.250"	—	—	—	49M930	—	—	—	49N099
	120"	0.125"	49N010	49N016	49M901	49M907	49N179	49N185	49N070	—
		0.188"	—	49N028	49M913	—	49N191	49N197	—	—
		0.250"	—	—	—	49M931	—	—	—	—
	144"	0.125"	—	38MM63	—	—	—	—	—	38MG75
		0.188"	—	—	—	38ML30	—	38ML65	—	38MD05



No. 49N558

DIRECT METALS® DM

Bar Grating—Stair Tread

- End plates: 2.5"
- Bearing bar spacing: 1.188"
- Bearing bar thickness: 0.188"
- Load cap.: 400 lb.

Aluminum treads feature grooved nosing. Steel models have checker-plated nosing.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

No. of Bearing Bars	Tread Width	Tread Depth	Height	SMOOTH SURFACE Item No.	SERRATED SURFACE Item No.
Aluminum, Grooved Nosing					
6	24"	7.375"	1.25"	—	49N564
7	18"	8.563"	1.25"	49N559	49N563
	24"	8.563"	1.25"	49N561	49N565
	30"	8.563"	1.25"	49N562	49N566
304 Stainless Steel, Checker Plate Nosing					
8	36"	9.75"	1.25"	49N568	—
9	36"	10.938"	1.25"	49N569	—
10	36"	12.125"	1"	49N567	—
	36"	12.125"	1.25"	49N570	—
Black Painted Steel, Checker Plate Nosing					
7	24"	8.5625"	1"	49N514	49N539
	30"	8.5625"	1"	49N516	49N541
8	24"	9.75"	1"	49N515	49N540
	30"	9.75"	1"	49N517	49N542
	36"	9.75"	1"	49N519	—
	36"	9.75"	1.25"	49N522	—

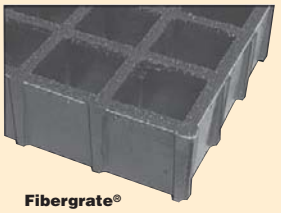
No. of Bearing Bars	Tread Width	Tread Depth	Height	SMOOTH SURFACE Item No.	SERRATED SURFACE Item No.
9	30"	10.9375"	1"	49N518	49N543
	36"	10.9375"	1"	49N520	—
	36"	10.9375"	1.25"	49N523	49N545
	42"	10.9375"	1.25"	49N524	49N546
	48"	10.9375"	1.25"	49N525	49N547
10	36"	12.125"	1"	49N521	—
	36"	12.125"	1.25"	49N526	49N548
Galvanized Steel, Checker Plate Nosing					
7	24"	8.5625"	1"	49N527	49N549
	30"	8.5625"	1"	—	49N551
8	24"	9.75"	1"	49N528	49N550
	30"	9.75"	1"	49N530	49N552
	36"	9.75"	1.25"	—	49N554
9	30"	10.9375"	1"	49N531	49N553
	36"	9.75"	1.25"	49N534	—
	36"	10.9375"	1.25"	49N535	49N555
	42"	10.9375"	1.25"	49N536	49N556
	48"	10.9375"	1.25"	49N537	49N557
10	36"	12.125"	1"	49N533	—
	36"	12.125"	1.25"	49N538	49N558



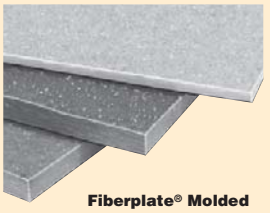
Fibertred® Corvex® Molded



Safe-T-Span® Industrial Pultruded Grating



Fibergrate® Molded Grating



Fiberplate® Molded Floor Plate

Fiberglass Information

MOLDED GRATING

- No more than ¼" deflection for recommended loads

Provide reliable corrosion-, impact-, and slip-resistant surfaces.

Corvex®—Premium polyester grating.

FGI-AM® Antimicrobial Premium Polyester—Food-grade formulation inhibits bacteria, fungus, and mildew growth. USDA accepted.

Micro-Mesh® Corvex®—Lightweight sheets for use where underfloor access and unobstructed airflow is required.

Vi-Corr® High Load Capacity—Engineered to carry forklift loads.

PULTRUDED GRATING

Safe-T-Span® Pedestrian and Industrial—Manufactured from a fire-retardant isophthalic polyester resin system (ISOFR).

MOLTRUDED® GRATING

Combines corrosion resistance of molded grating with longer span capacity of pultruded grating.

Rigidex™—Large openings allow greater airflow for walkways and platforms.

Aqua Grate®—Withstands corrosion and helps provide safety and comfort for walking with bare feet in high-traffic, public recreational areas. Meets ADA guidelines.

FIBERPLATE®

Solid composite panels offer bidirectional strength.

DEFINITIONS

Ultimate Capacity—Represents the weight which, if exceeded, will result in a complete and total failure of the grating.

ISOFR—Isophthalic Polyester Fire Retardant Resin formulation has a flame spread rating of 25 or less. Designed for applications where moderate exposure to corrosive elements exists.

VEFR—Vinyl Ester Fire Retardant Resin. For severe exposure to corrosive elements.

Applied Grit Top—Quartz grit applied to surface for slip-resistant footing.

Meniscus Top—Concave surface provides highly slip-resistant footing in most environments, including in wet or oily conditions.

Brand	Resin	Mesh	Corrosion Resist.	Strength/ Stiffness (Longest Span)	Impact Resistance	Open Area	Single-Direction Span	Bi-Direction Span	Ease of Layout and Installation	Surface	Color	Max. Temp. (°F)
Molded Grating												
Corvex®	Polyester	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Grit Top	Multiple	140
		Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent			
Corvex® Covered	Polyester	—	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent	Grit Top	Dark Grey	140
FGI-AM®	Antimicrobial Polyester	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Grit Top	Light Grey	140
		Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent			
Micro-Mesh® Corvex®	Polyester	Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent	Meniscus Top	Dark Grey	140
Vi-Corr® High Load Capacity	VEFR	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Smooth Top	Dark Grey	180
Pultruded Grating												
Safe-T-Span® Pedestrian	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	Poor	Fair	Grit Top	Dark Grey	140
Safe-T-Span® Industrial	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	Poor	Fair	Grit Top	Yellow	140
Pultruded Stair Tread												
Safe-T-Span®	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	—	Fair	Grit Top	Yellow with Black Nosing	140
Moltruded® Grating												
Rigidex® I	Polyester	Rect.	Excellent	Good	Poor	Excellent	Excellent	Poor	Fair	Grit Top	Light Grey	140
Fiberplate® Plate												
Corvex®	Polyester	—	Excellent	Good	Good	—	Good	Excellent	Fair	Grit Top	Dark Grey	140
Vi-Corr®	VEFR	—	Excellent	Good	Good	—	Good	Excellent	Fair	Grit Top	Dark Grey	180



No. 4ATE4

Fibergrate Composite Structures

Fiberplate® (FRP) Molded Floor Plates

- Grit top
- Dark gray
- Width and length tolerances: ±0.125"

Install over slick metallic or concrete surfaces to improve slip resistance. Lightweight, corrosion-resistant, and easy to fabricate. ⅛" and ¼" plates are designed for covering only, not recommended for load bearing service.

Thickness	Thickness Tolerance*	12" x 12" Item No.	12" x 24" Item No.	24" x 24" Item No.	48" x 48" Item No.	48" x 96" Item No.
Corvex® Plates						
⅛"	+0.0938"/-0.032"	4ATE2	—	4ATE6	4ATF1	4ATF5
¼"	+0.125/-0.063"	4ATE3	—	4ATE7	4ATF2	4ATF6
⅜"	+0.125/-0.063"	4ATE4	—	4ATE8	4ATF3	4ATF7
½"	+0.125/-0.063"	4ATE5	—	4ATE9	4ATF4	4ATF8
Vi-Corr® Plates						
⅛"	+0.0938"/-0.032"	4ATF9	4ATG4	4ATG8	4ATH3	—
¼"	+0.125/-0.063"	4ATG1	4ATG5	4ATG9	4ATH4	—
⅜"	+0.125/-0.063"	4ATG2	4ATG6	4ATH1	4ATH5	—
½"	+0.125/-0.063"	4ATG3	4ATG7	4ATH2	4ATH6	—

Thickness (in.)	Span (in.)	Max. Load (psf) Normal*	Max. Load (psf) Firm†	Load (psf) 25	Load (psf) 50	Load (psf) 75	Concentrated Load Required to Produce Deflection Equal to 1% of Span
⅜"	36	28	17	0.258	—	—	192 lbs.
½"		49	30	0.153	0.297	0.441	318 lbs.

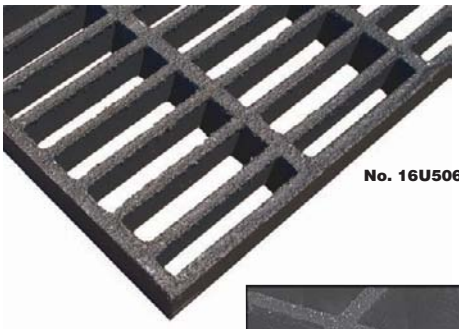
** Normal load is the load that will produce a maximum deflection of 0.375" or L/D of 125".*
† Firm is the load which will produce a maximum deflection of 0.25" or L/D of 200".

Fibergrate Composite Structures

Corvex® Molded Grating

- Gritted antislip surface

Corvex® isophthalic polyester resin system offers a high level of corrosion resistance for use in industrial, chemical processing, and water/wastewater applications.



No. 16U506



No. 4ATR8

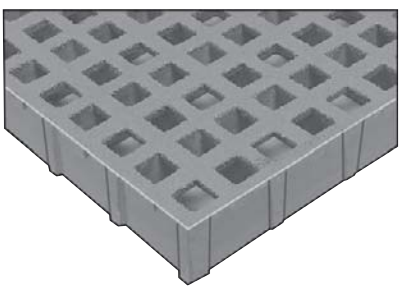
Width	Span	Mesh Size	Bearing Bar Spacing Ctr.-to-Ctr.	DARK GRAY Item No.	GREEN Item No.	YELLOW Item No.
1" Depth						
3 ft.	5 ft.	1½" x 1½"	1½"	16U517	4ATT5	16U515
	10 ft.	1½" x 1½"	1½"	16U516	4ATT1	16U514
4 ft.	4 ft.	1" x 4"	1"	16U511	4ATT2	16U509
	4 ft.	1½" x 1½"	1½"	16U521	4ATT6	16U519
	8 ft.	1½" x 1½"	1½"	16U520	4ATR8	16U518
5 ft.	3 ft.	1" x 4"	1"	16U507	4ATT4	16U505
8 ft.	4 ft.	1" x 4"	1"	16U510	4ATR9	16U508
10 ft.	3 ft.	1" x 4"	1"	16U506	4ATT3	16U504
1½" Depth						
3 ft.	5 ft.	1½" x 1½"	1½"	4ATU1	4ATT8	16U513
	10 ft.	1½" x 1½"	1½"	4ATT9	4ATT7	16U512
4 ft.	4 ft.	1½" x 1½"	1½"	4ATU9	4ATU5	4ATV3
	6 ft.	1½" x 1½"	1½"	4ATU8	4ATU4	4ATV2
	8 ft.	1½" x 1½"	1½"	4ATU6	4ATU2	16U522
	12 ft.	1½" x 1½"	1½"	4ATU7	4ATU3	4ATV1
2" Depth						
4 ft.	6 ft.	2" x 2"	2"	4ATV7	4ATV5	16U524
	12 ft.	2" x 2"	2"	4ATV6	4ATV4	16U523

Fibergrate Composite Structures

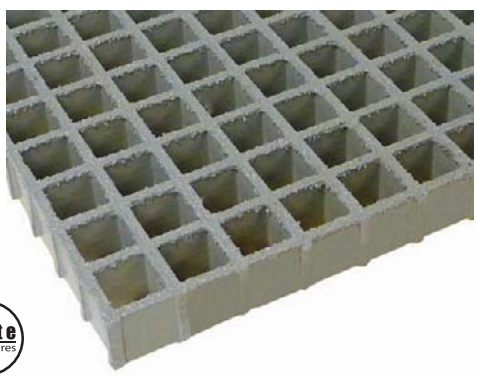
Micro-Mesh® Corvex® Molded Grating

- Bearing bar width: 0.25"
- Bearing bar spacing center-to-center: 1½"
- Dark gray
- Corvex® Resin System

Offers lightweight bidirectional strength. For walkways, platforms, trench covers, and catwalks.



Width	Span	Depth	Mesh Size	Item No.
4 ft.	12 ft.	1½"	¾" x ¾"	4ATW3



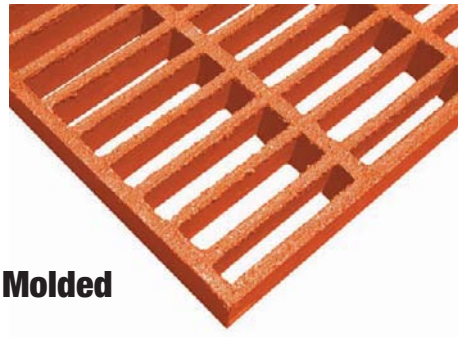
Fibergrate Composite Structures

FGI-AM® Molded Grating-Food Grade

- Light gray

FGI-AM® fire-retardant food-grade resin system has antimicrobial properties that help protect the product itself from corrosion, while meeting the requirements of the food and beverage industry. For nonpublic health use only.

W	Span	Mesh Size	Spacing Ctr.-to-Ctr.	Item No.
1" Depth				
3 ft.	5 ft.	1½" x 1½"	1½"	4ATX3
	10 ft.	1½" x 1½"	1½"	4ATX2
4 ft.	4 ft.	1" x 4"	1"	4ATX5
	4 ft.	1½" x 1½"	1½"	4ATX4
	8 ft.	1½" x 1½"	1½"	4ATX6
5 ft.	3 ft.	1" x 4"	1"	4ATX7
8 ft.	4 ft.	1" x 4"	1"	4ATX8
10 ft.	3 ft.	1" x 4"	1"	4ATX1
1½" Depth				
3 ft.	5 ft.	1½" x 1½"	1½"	4ATW5
	10 ft.	1½" x 1½"	1½"	4ATW4
4 ft.	4 ft.	1½" x 1½"	1½"	4ATW7
	6 ft.	1½" x 1½"	1½"	4ATW8
	8 ft.	1½" x 1½"	1½"	4ATW9
	12 ft.	1½" x 1½"	1½"	4ATW6
2" Depth				
4 ft.	6 ft.	2" x 2"	2"	4ATY1
	12 ft.	2" x 2"	2"	4ATX9



Fibergrate Composite Structures

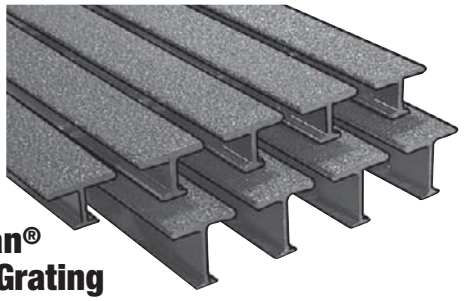
Vi-Corr® Molded Grating

Vi-Corr® superior vinyl ester resin offers outstanding corrosive resistance to highly caustic and acidic environments.

W	Span	Mesh Size	Spacing Ctr.-to-Ctr.	Color	Item No.	Pkg. Qty.
1" Depth						
3 ft.	5 ft.	1½" x 1½"	1½"	Orange	16U494	1
	10 ft.	1½" x 1½"	1½"	Orange	16U493	1
4 ft.	4 ft.	1" x 4"	1"	Orange	16U490	2
	4 ft.	1½" x 1½"	1½"	Orange	16U498	1
	8 ft.	1½" x 1½"	1½"	Orange	16U497	1
5 ft.	3 ft.	1" x 4"	1"	Orange	16U488	2
8 ft.	4 ft.	1" x 4"	1"	Orange	16U489	1
10 ft.	3 ft.	1" x 4"	1"	Orange	16U487	1
1½" Depth						
3 ft.	5 ft.	1½" x 1½"	1½"	Orange	16U492	2
	10 ft.	1½" x 1½"	1½"	Orange	16U491	1
4 ft.	4 ft.	1½" x 1½"	1½"	Orange	16U496	2
	6 ft.	1½" x 1½"	1½"	Orange	16U495	1
	8 ft.	1½" x 1½"	1½"	Orange	16U501	1
	12 ft.	1½" x 1½"	1½"	Orange	16U499	1
2" Depth						
3 ft.	8 ft.	None	2"	Dark Gray	49AL39	1
4 ft.	6 ft.	2" x 2"	2"	Orange	16U503	2
	12 ft.	2" x 2"	2"	Orange	16U502	1



I-Shaped



T-Shaped

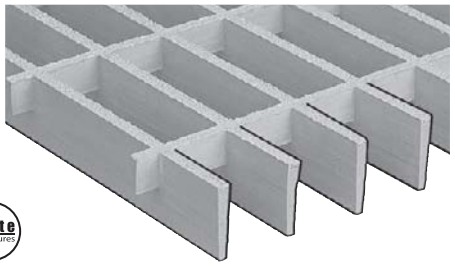
Fibergrate Composite Structures

Safe-T-Span® Pultruded Grating

- Grit top

Nonconductive, lightweight grating is manufactured from a fire-retardant isophthalic polyester resin system (ISOFR). Corrosion- and slip-resistant material replaces steel bar grating. A high percentage of glass provides durability and high unidirectional strength and stiffness, making this the ideal solution for applications where longer support spans are required. Supports loads in the span direction only.

Span	Bearing Bar Width	Spacing Center-to-Center	2 FT. W Item No.	3 FT. W Item No.	4 FT. W Item No.
Industrial Pultruded Grating					
I4010, 1" Depth, Dark Gray					
12 ft.	0.60"	1"	—	49AL23	—
I4010, 1" Depth, Yellow					
10 ft.	0.60"	1"	—	49AL04	49AL07
12 ft.			—	—	49AL08
I4015, 1½" Depth, Yellow					
8 ft.	0.60"	1"	—	—	49AL15
I6010, 1" Depth, Dark Gray					
8 ft.	0.60"	1½"	—	49AK84	—
10 ft.			—	—	49AK88
12 ft.			—	49AK86	—
I6010, 1" Depth, Yellow					
3 ft.	0.60"	1½"	4AUA9	4AUA8	4AUD1
4 ft.			4AUC4	4AUA3	4AUC5
5 ft.			4AUC7	4AUC2	4AUC8
6 ft.			4AUC3	4AUC6	4AUC9
8 ft.			4AUA6	4AUC1	4AUA4
10 ft.			—	4AUA2	4AUA5
I6015, 1½" Depth, Dark Gray					
8 ft.	0.60"	1½"	—	49AK93	—
12 ft.			—	49AK95	—
I6015, 1½" Depth, Yellow					
3 ft.	0.60"	1½"	4AUE4	4AUD8	4AUE9
4 ft.			4AUD9	4AUD3	4AUE1
5 ft.			4AUE6	4AUE8	4AUF1
6 ft.			4AUD4	4AUD6	4AUE7
8 ft.			—	4AUE3	4AUE2
10 ft.			—	4AUD2	4AUD7
T5020, 2" Depth, Dark Gray					
8 ft.	1.00"	2"	—	—	49AL42
T5020, 2" Depth, Yellow					
3 ft.	1.00"	2"	4AUH3	4AUF8	4AUH8
4 ft.			4AUH5	4AUJ1	4AUF2
5 ft.			4AUF5	4AUH6	4AUH7
6 ft.			4AUF9	4AUH9	4AUF4
8 ft.			—	4AUH1	4AUF3
10 ft.			—	4AUF6	4AUH2
Pedestrian Pultruded Grating					
T2510, 1" Depth, Dark Gray					
3 ft.	1.50"	2"	4AUJ3	4AUJ5	4AUK9
4 ft.			4AUJ2	4AUK5	4AUJ8
5 ft.			4AUK7	4AUK3	4AUK8
6 ft.			4AUK4	4AUK6	4AUJ7
8 ft.			—	4AUJ4	4AUK2
10 ft.			—	4AUJ9	4AUK1
T2515, 1½" Depth, Dark Gray					
3 ft.	1.50"	2"	4AUN8	4AUL3	4AUN9
4 ft.			4AUN1	4AUL7	4AUN2
5 ft.			4AUL4	4AUN3	4AUN7
6 ft.			4AUN6	4AUN4	4AUP1
8 ft.			—	4AUL5	4AUL9
10 ft.			—	4AUL2	4AUN5



Fibergrate Composite Structures

Rigidex™ Moltruded Grating

- Corvex® polyester resin
- 1½" thick
- Light gray

Light-duty grating has large openings that allow greater airflow. For walkways and platforms.

Mesh Size	Clear Span (in.)	Load (psf) 50	65	100	200	Max Recommended Load (psf)	Ultimate Capacity (psf)
1½ x 4"	36	0.08	0.11	0.17	0.34	845	1690

Span	Bearing Bar Width	Spacing Center-to-Center	2 FT. W Item No.	3 FT. W Item No.	4 FT. W Item No.
1½" Depth					
3 ft.	0.27"	1½"	4AUP7	4AUR1	4AUR4
4 ft.	0.27"	1½"	4AUP8	4AUR2	4AUR5
6 ft.	0.27"	1½"	4AUP9	4AUR3	4AUR6
8 ft.	0.27"	1½"	—	—	4AUR7



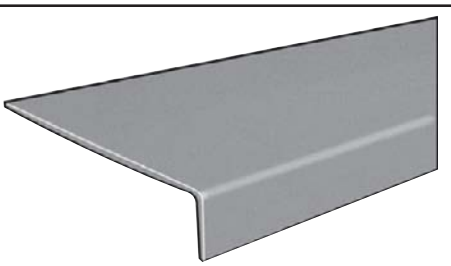
Fibergrate Composite Structures

Aqua Grate®

- Light gray

Lightweight, pultruded pedestrian grating withstands corrosion. Helps provide safety and comfort for walking with bare feet in high-traffic, public recreational areas. Fine grit surface provides a high level of slip resistance. Protection against long-term UV exposure is provided by a synthetic surfacing veil and UV inhibitors in the resin formulation. Features nominal ¼" space between the 1½" wide bearing bars.

W	Span	Spacing Ctr.-to-Ctr.	Item No.
T1210, 1" Depth			
3 ft.	10 ft.	1 23/32"	49AK67
4 ft.	8 ft.	1 23/32"	49AK69
5 ft.	10 ft.	1 23/32"	49AK73
T1215, 1½" Depth			
3 ft.	8 ft.	1 23/32"	49AK75



Fibergrate Composite Structures

Molded Stair Tread Covers

- A/O grit surface
- ⅛" thick
- Corvex®

Can be fabricated and installed over existing steps to provide a slip-resistant walking surface. Corrosion resistant. OSHA approved with yellow nosing.

W	D	Item No.
Dark Gray with Yellow Nosing		
36"	12"	4ATZ2
48"	12"	4ATZ3
144"	10"	4ATY8
	11"	4ATY9
	12"	4ATZ1
Light Gray		
144"	10"	4ATZ6
	12"	4ATZ7


Round Tube


Square Tube


Standard I-Beam


U-Channel


Cylindrical Rod

Fibergrate Composite Structures

Dynaform® Structural Shapes

- Temp. range: -100° to 150°F
- Tensile strength: 30,000 psi; except cylindrical rods are 100,000 psi

Resin material is ideal for platforms, walkways, and equipment support. Isophthalic polyester resin formulation (ISOFR) provides a low flame-spread rating of 25 or less (when tested according to ASTM E-84). Cylindrical rods are made of olive green ispophthalic polyester (ISO) resin which resists a wide array of chemicals and highly acidic conditions. Not fire retardant.

Inside Dia.	Outside Dia.	Outside Dia. Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Round Tubes						
¾"	1"	±0.020"	⅛"	±0.019"	4ATR2	4ATR5
1¼"	1½"	±0.020"	⅛"	±0.019"	4ATR3	4ATR6
1½"	2"	±0.040"	¼"	±0.038"	4ATR4	4ATR7

Inside Square	Outside Square	Outside Square Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Square Tubes						
¾"	1"	±0.020"	0.125"	±0.019"	4ATN8	4ATP5
1¼"	1½"	±0.020"	0.125"	±0.019"	4ATN9	4ATP6
1½"	2"	±0.020"	0.250"	±0.038"	4ATP2	4ATP8
1¾"	2"	±0.020"	0.125"	±0.019"	4ATP1	4ATP7
2½"	3"	±0.040"	0.250"	±0.038"	4ATP3	4ATP9
3½"	4"	±0.040"	0.250"	±0.038"	4ATP4	4ATR1

H	W	Thickness	Length Tolerance	10 FT L Item No.	20 FT L Item No.
Standard I-Beams					
4"	2"	¼"	—	4AUU2	4AUU1
6"	3"	¼"	—	4AUU4	4AUU3
Wide Flanged I-Beams					
4"	4"	¼"	±0.125"	4AUT5	4AUT4
6"	6"	¼"	±0.125"	4AUT7	4AUT6
6"	6"	⅜"	±0.125"	4AUT9	4AUT8

Leg Length	Base Width	Base Width Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L‡ Item No.
U-Channels						
9/16"	2"	±0.094"	⅛"	±0.010"	4ATM3	4ATN1
⅞"	3"	±0.094"	¼"	±0.010"	4ATM4	4ATN2
1⅛"	4"	±0.094"	¼"	±0.010"	4ATM5	4ATN3
1⅝"	6"	±0.094"	¼"	±0.010"	4ATM6	4ATN4
1 11/16"	6"	±0.094"	⅜"	±0.010"	4ATM7	4ATN5
2 3/16"	8"	±0.094"	⅜"	±0.010"	4ATM8	4ATN6
2¾"	10"	±0.094"	½"	±0.010"	4ATM9	4ATN7

Dia.	Dia. Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Cylindrical Rods			
¼"	±0.010"	4ATK9	4ATL6
⅜"	±0.010"	4ATL1	4ATL7
½"	±0.010"	4ATL2	4ATL8
¾"	±0.010"	4ATL3	4ATL9
1"	±0.010"	4ATL4	4ATM1
1¼"	±0.010"	4ATL5	4ATM2

** Length Tolerance ±0.1875", † Length Tolerance ±0.125"; ‡ Length tolerance: ±0.094"*


90°


EZ Angle® Concrete Embedment


Y Concrete Embedment

Fibergrate Composite Structures

Dynaform® Fiberglass Angle

- Leg length tolerance: ±0.094"
- Thickness tolerance: ±0.010"
- Tensile strength: 30,000 psi

90°—Use for constructing structural support systems, including platforms, walkways, and equipment support. Made from an isophthalic polyester fire-retardant resin (ISOFR).
- Temp. range: -100° to 150°F

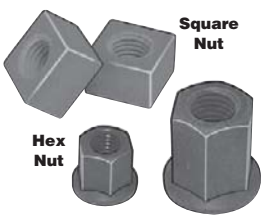
EZ Angle® Concrete Embedment—Install at edge of concrete trenches to support trench gratings. Made from a fire-retardant vinyl ester (VEFR) resin.
- Temp. range: -100° to 180°F

Y Concrete Embedment—Use in place of steel concrete embedment angles. Install at edge of trenches where gratings are supported. Made from a fire-retardant vinyl ester (VEFR) resin.
- Temp range: -100° to 180°F

Leg Length	5 ft. L Item No.	10 ft. L Item No.
90 Degree		
⅛" Thick		
1" x 1"	4ATH7	4ATJ8
¼" Thick		
1½" x 1½"	4ATH8	—
2" x 2"	4ATH9	4ATK1
3" x 3"	4ATJ1	4ATK2
4" x 4"	4ATJ3	4ATK4
1½" x 1½"	—	4ATJ9
⅜" Thick		
3" x 3"	4ATJ2	4ATK3
4" x 4"	4ATJ4	4ATK5
6 x 6"	4ATJ6	4ATK7
½" Thick		
4" x 4"	4ATJ5	4ATK6
6 x 6"	4ATJ7	4ATK8

Leg Length	20 ft. L Item No.
EZ Angle® Concrete Embedment	
¼" Thick	
1" x 1½"	4AUR9
2" x 1½"	4AUR8
Y Concrete Embedment	
¼" Thick	
1" x 1½"	4AUT1
1½" x 1½"	4AUT2
2" x 1½"	4AUT3


Threaded Rod



GA GRAINGER APPROVED

Fibergrate Composite Structures

Fiberglass Accessories

- Threaded rod temp. range: -100° to 180°F

Description	Size	Material	Brand	Item No.
Fully Threaded Rod	½"-13 Thread, 4 ft.	Vinyl Ester (VEFR)	GA	4AUU5
	¾"-10 Thread, 4 ft.			4AUU6
Square Nut	½-13 Thread	Vinyl Ester Fire-Retardant Resin (VEFR)	Dynaform	4AUU7
	¾-10 Thread			4AUU8
Hex Nut	½-13 Thread	Isoplast		4AUV2
	¾-10 Thread			4AUV3
Flat Washer	½" I.D., 1⅜" O.D.	Nylon		4AUU9
	¾" I.D., 1¾" O.D.			4AUV1

Fibergrate Composite Structures

Safe-T-Stand® Portable Work Platforms



- Max. weight: 300 lb.
- Max. temp.: 150°F
- Green color
- FGI-AM® resin

Provide a comfortable working height for work stations. A/O grit platform surface with slip-resistant rubber feet.

H	Base Width	Base Length	Item No.
2"	25⅜"	25⅜"	4ATZ8
4"	25¾"	25¾"	4ATZ9
6"	26⅛"	26⅛"	4AUA1



Cube



Ball

GA GRAINGER APPROVED

Foam Cubes and Balls

- Open Cell
- Charcoal

Suitable for a wide range of applications including packaging, Polyether material that keeps its shape when pressure is released. Hydrolytic stability makes them ideal for humid or wet conditions.

Size	Firmness @ 25% Deflection (psi)	Tensile Strength (psi)	Item No.
Foam Cube			
2¾ sq. in.	0.40	15	**5GCJ1**
3½ sq. in.	0.40	15	**5GCJ2**
4 sq. in.	0.40	15	**5GCJ3**
6 sq. in	0.40	15	**5GCJ4**
7 sq. in.	0.40	15	**5GCR3**
8 sq. in.	0.40	15	**5GCR6**
Foam Ball			
4" dia.	0.40	15	**5GCH9**
6" dia.	0.40	15	**5GCJ0**
7" dia.	0.40	15	**5GCR4**
8" dia.	0.40	15	**5GCR5**



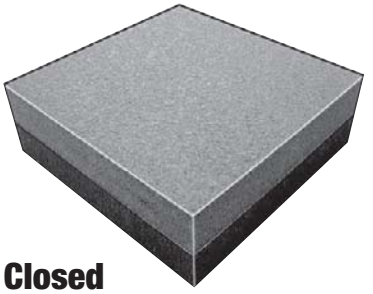
GA GRAINGER APPROVED

Silicone Foam Tubes

- 5 Ft. length
- Red
- Tensile Strength 200 (PSI)

Silicone foam tube is commonly used to create seals and washers for high-heat and outdoor applications. It withstands high temperatures and has excellent resistance to UV rays.

Inside Dia.	Outside Dia.	Item No.
¼"	¾"	**497L02**
⅜"	⅞"	**497L03**
½"	1"	**497L04**
¾"	1¼"	**497L05**
1"	1½"	**497L06**



GA GRAINGER APPROVED

Water-Resistant Closed Cell Tool Organizer Foam Sheets

- Polyethylene
- Charcoal/Blue color

Thickness	Width	Length	Item No.
1"	12"	12"	**5GCG7**
1"	24"	27"	**5GDA2**
1½"	12"	12"	**5GCG5**
1½"	24"	27"	**5GDA1**
2"	12"	12"	**5GCG8**
2"	24"	27"	**5GDA3**



GA GRAINGER APPROVED

Foam Cord

NEOPRENE FOAM CORD

Resistant to chemicals, oil, and UV rays.

BUNA-N FOAM CORD

Excellent oil resistance, ideal for forming seals in engines and fuel systems. Also resists water, UV rays, and mild chemicals.

SILICONE FOAM CORD

Withstands a wide range of temperatures, commonly used for gaskets, heat shields, fire stops, cushions, and insulation. Rebounds to shape after long-term compression, has excellent resistance to UV rays and good resistance to oil and chemicals.

Dia.	L	Tensile Strength	Item No.
Neoprene Foam Cord			
Black			
⅛"	3 ft.	100 psi	**497K48**
	15 ft.	100 psi	**497K47**
	30 ft.	100 psi	**497K46**
	100 ft.	100 psi	**497K45**
	300 ft.	100 psi	**497K44**
3⁄16"	3 ft.	100 psi	**497K53**
	15 ft.	100 psi	**497K52**
	30 ft.	100 psi	**497K51**
	100 ft.	100 psi	**497K50**
	300 ft.	100 psi	**497K49**
¼"	3 ft.	100 psi	**497K58**
	15 ft.	100 psi	**497K57**
	30 ft.	100 psi	**497K56**
	100 ft.	100 psi	**497K55**
	300 ft.	100 psi	**497K54**
5⁄16"	3 ft.	100 psi	**497K63**
	15 ft.	100 psi	**497K62**
	30 ft.	100 psi	**497K61**
	100 ft.	100 psi	**497K60**
	300 ft.	100 psi	**497K59**
⅜"	3 ft.	100 psi	**497K68**
	15 ft.	100 psi	**497K67**
	30 ft.	100 psi	**497K66**
	100 ft.	100 psi	**497K65**
	300 ft.	100 psi	**497K64**
½"	3 ft.	100 psi	**497K73**
	15 ft.	100 psi	**497K72**
	30 ft.	100 psi	**497K71**
	100 ft.	100 psi	**497K70**
	300 ft.	100 psi	**497K69**
5⁄8"	3 ft.	100 psi	**497K77**
	15 ft.	100 psi	**497K76**
	30 ft.	100 psi	**497K75**
	100 ft.	100 psi	**497K74**
¾"	3 ft.	100 psi	**497K81**
	15 ft.	100 psi	**497K80**
	30 ft.	100 psi	**497K79**
	100 ft.	100 psi	**497K78**
1"	3 ft.	100 psi	**497K85**
	15 ft.	100 psi	**497K84**
	30 ft.	100 psi	**497K83**
	100 ft.	100 psi	**497K82**
Buna-N Foam Cord			
Black			
⅛"	25 ft.	160 psi	**497K96**
3⁄64"	25 ft.	160 psi	**497K97**
¼"	10 ft.	160 psi	**497K98**
½"	10 ft.	160 psi	**497K99**
1"	10 ft.	160 psi	**497L01**
Silicone Foam Cord			
Red			
⅛"	10 ft.	100 psi	**497K91**
	100 ft.	100 psi	**497K86**
3⁄16"	10 ft.	100 psi	**497K92**
	100 ft.	100 psi	**497K87**
¼"	10 ft.	100 psi	**497K93**
	100 ft.	100 psi	**497K88**
⅜"	10 ft.	100 psi	**497K94**
	100 ft.	100 psi	**497K89**
½"	10 ft.	100 psi	**497K95**
	100 ft.	100 psi	**497K90**

Find more sizes at Grainger.com®



GA GRAINGER APPROVED

Water-Resistant Closed Cell Foam Sheets

Commonly used as package inserts and insulation. The foam is made up of cells that are closed off from one another to resist water penetration and provide thermal insulation.

Thickness	Width	Length	Item No.
Anti-Static Polyethylene			
Pink			
1/8"	12"	12"	5GCE9
1/8"	24"	36"	5GDA6
1/4"	12"	12"	5GCE8
1/4"	24"	36"	5GDA4
3/8"	12"	12"	5GCH2
3/8"	24"	36"	5GDA5
1/2"	12"	12"	5GCF3
1/2"	24"	36"	5GDA7
3/4"	12"	12"	5GCH1
3/4"	24"	36"	5GDA9
1"	12"	12"	5GCG9
1"	24"	36"	5GDA8
2"	12"	12"	5GCH0
2"	24"	36"	5GDC0
EPDM			
Black			
1/16"	12"	12"	497H80
1/16"	12"	12"	497H62
1/16"	12"	24"	497J05
1/16"	12"	24"	497H86
1/16"	12"	24"	497H68
1/16"	36"	36"	497J15
3/32"	36"	36"	497J21
1/8"	12"	12"	497H63
1/8"	12"	12"	497H81
1/8"	12"	12"	497H99
1/8"	12"	24"	497H69
1/8"	12"	24"	497H87
1/8"	12"	24"	497J06
1/8"	36"	36"	497J16
3/16"	12"	12"	497H82
3/16"	12"	12"	497J01
3/16"	12"	12"	497H64
3/16"	12"	24"	497J07
3/16"	12"	24"	497H70
3/16"	36"	36"	497J17
1/4"	12"	12"	497H83
1/4"	12"	12"	497H65
1/4"	12"	12"	497J02
1/4"	12"	24"	497H89
1/4"	12"	24"	497H71
1/4"	36"	36"	497J18
5/16"	36"	36"	497J22
3/8"	12"	12"	497H66
3/8"	12"	12"	497H84
3/8"	12"	24"	497H90
3/8"	12"	24"	497H72
3/8"	36"	36"	497J19
1/2"	12"	12"	497J04
1/2"	12"	12"	497H67
1/2"	12"	24"	497H91
1/2"	12"	24"	497H73
1/2"	36"	36"	497J20
EVA			
Black			
1/8"	12"	12"	497K02
1/8"	12"	12"	497K14
1/8"	36"	36"	497K20
1/8"	36"	36"	497K08
1/4"	12"	12"	497K03
1/4"	36"	36"	497K21
1/4"	36"	36"	497K09
3/8"	12"	12"	497K04
3/8"	36"	36"	497K10
3/8"	36"	36"	497K22
1/2"	12"	12"	497K05
1/2"	12"	12"	497K17
1/2"	36"	36"	497K11
1/2"	36"	36"	497K23
3/4"	12"	12"	497K06
3/4"	12"	12"	497K18
3/4"	36"	36"	497K12
3/4"	36"	36"	497K24
1"	12"	12"	497K07
1"	12"	12"	497K19
1"	36"	36"	497K13
1"	36"	36"	497K25
Neoprene			
Black			
1/16"	12"	12"	497F58
1/16"	12"	24"	497F64
1/16"	36"	36"	497G04
1/8"	12"	12"	497F59
1/8"	12"	12"	497G29
1/8"	12"	12"	497F77
1/8"	12"	24"	497F65
1/8"	12"	24"	497F83
1/8"	36"	36"	497G05
3/16"	12"	12"	497F60
3/16"	12"	24"	497F84
3/16"	36"	36"	497G06
1/4"	12"	12"	497F79
1/4"	12"	12"	497G30
1/4"	12"	12"	497G02
1/4"	12"	12"	497F61
1/4"	12"	24"	497F85
1/4"	12"	24"	497F67
1/4"	36"	36"	497G07
3/8"	12"	12"	497F80
3/8"	12"	12"	497F62
3/8"	12"	24"	497F86
3/8"	12"	24"	497F68
3/8"	36"	36"	497G08
1/2"	12"	12"	497F63
1/2"	12"	12"	497F81
1/2"	12"	12"	497G03
1/2"	12"	24"	497F69
1/2"	12"	24"	497F87
1/2"	36"	36"	497G09
1"	12"	12"	497F94
1"	12"	12"	497F97
1"	12"	24"	497F95
1"	12"	24"	497F98
Polyethylene			
Blue			
2"	24"	54"	5GDK4
Charcoal			
1/4"	24"	18"	5GCR7
1/4"	24"	54"	5GDK0
3/8"	24"	18"	5GCR8
3/8"	24"	54"	5GDK1
1/2"	24"	18"	5GCR9
1/2"	24"	54"	5GDK2
3/4"	24"	18"	5GCT2
3/4"	24"	54"	5GDK3
1"	24"	18"	5GCT0
1"	24"	54"	5GDK5
2"	24"	18"	5GCT1
2"	48"	54"	5GDL0
White			
2"	48"	54"	5GDL1
Polyethylene Vinyl Charcoal			
1/8"	12"	12"	5GCF2
1/4"	12"	12"	5GCF1
3/8"	12"	12"	5GCF5
1/2"	12"	12"	5GCF4
3/4"	12"	12"	5GCJ6
1"	12"	12"	5GCJ5
Silicone			
Orange			
1/8"	12"	12"	39G045
1/8"	12"	12"	39F949
1/8"	12"	12"	39F950
1/8"	36"	36"	39G048
3/16"	12"	12"	39F953
3/16"	12"	12"	39G051
3/16"	24"	24"	39F956
1/4"	12"	12"	39G057
1/4"	12"	12"	39F957
1/4"	24"	24"	39G059
1/4"	24"	24"	39F959
3/8"	12"	12"	39F962
3/8"	24"	24"	39F963
1/2"	12"	12"	39F965
1/2"	12"	12"	39F966
1/2"	12"	12"	39G069
1/2"	24"	24"	39G071
1/2"	24"	24"	39G070
Viton			
Black			
1/4"	6"	6"	497J26
1/4"	12"	24"	497J28
1/2"	12"	12"	497J33



GA GRAINGER APPROVED

Water-Resistant Closed Cell Foam Rolls

Water-resistant closed-cell foam rolls are long sheets of synthetic material that can be cut-to-length for wrapping, packaging, and insulating applications. The foam is made up of cells that are closed off from one another to resist water penetration and provide thermal insulation.

Thickness	Width	Length	Item No.
Anti-Static Polyethylene			
Pink			
1/8"	48"	550 ft.	5GDT7
1/4"	48"	250 ft.	5GDT6
1/2"	48"	125 ft.	5GDT5
EPDM			
Black			
3/32"	36"	10 ft.	497J11
1/8"	36"	10 ft.	497H75
1/8"	40"	25 ft.	6YGU3
3/16"	36"	10 ft.	497H94
3/16"	36"	10 ft.	497H76
1/4"	36"	10 ft.	497H95
1/4"	36"	10 ft.	497H77
1/4"	40"	25 ft.	6YGU5
5/16"	36"	10 ft.	497J12
3/8"	36"	10 ft.	497H96
1/2"	36"	10 ft.	497H79
EVA			
Black			
1/8"	36"	108"	497K38
1/4"	36"	108"	497K27
1/4"	36"	108"	497K39
3/8"	36"	108"	497K28
3/8"	36"	108"	497K40
1/2"	36"	108"	497K29
1/2"	36"	108"	497K41
3/4"	36"	108"	497K42
3/4"	36"	108"	497K30
1"	36"	108"	497K31
1"	36"	108"	497K43
Hydrin			
Black			
1/16"	38"	68"	6YGZ2
1/8"	38"	52"	6YGZ3
3/8"	38"	52"	6YGZ5
Neoprene			
Black			
1/16"	36"	10 ft.	497F88
1/16"	36"	10 ft.	497F70
1/8"	36"	10 ft.	497F71
1/8"	36"	10 ft.	497F89
1/8"	42"	72"	6YGW2
1/8"	42"	72"	6YGV5
3/16"	42"	72"	6YGV6
3/16"	42"	72"	6YGW3
1/4"	36"	10 ft.	497F73
1/4"	36"	10 ft.	497F91
1/4"	42"	25 ft.	6YGV0
1/4"	42"	72"	6YGV7
1/4"	42"	72"	6YGW4
3/8"	1"	25 ft.	6YGX6
3/8"	2"	25 ft.	6YGX7
3/8"	36"	10 ft.	497F74
3/8"	42"	72"	6YGV8
3/8"	42"	72"	6YGW5
1/2"	1"	25 ft.	6YGX8
1/2"	2"	25 ft.	6YGX9
1/2"	36"	10 ft.	497F75
1/2"	36"	10 ft.	497F93
1/2"	42"	25 ft.	6YGV2
1/2"	42"	72"	6YGW6
1/2"	42"	72"	6YGV9
3/4"	42"	72"	6YGW7
3/4"	42"	72"	6YGW0
1"	36"	10 ft.	497F99
1"	36"	10 ft.	497F96
1"	42"	25 ft.	6YGX5
1"	42"	25 ft.	6YGV4
1"	42"	72"	6YGW8
Neoprene/EPDM/SBR			
Black			
1/16"	42"	25 ft.	6YGJ9
1/16"	42"	72"	6YGH8
1/16"	42"	72"	6YGP2
1/8"	1 1/2"	50 ft.	6YLU2
1/8"	2"	50 ft.	6YLU3
1/8"	3"	50 ft.	6YLU4
1/8"	42"	25 ft.	6YGN2
1/8"	42"	25 ft.	6YGK0
1/8"	42"	72"	6YGH9
1/8"	42"	72"	6YGL1
1/8"	42"	72"	6YGP3
3/16"	1/4"	50 ft.	6YLU5
3/16"	3/8"	50 ft.	6YLU6
3/16"	1/2"	50 ft.	6YLU7
3/16"	5/8"	50 ft.	6YLU8
3/16"	3/4"	50 ft.	6YLU9
3/16"	1"	50 ft.	6YLV0
3/16"	1 1/2"	50 ft.	6YLV1
3/16"	2"	50 ft.	6YLV2
3/16"	3"	50 ft.	6YLV3
3/16"	42"	25 ft.	6YGN3
3/16"	42"	25 ft.	6YGK1
3/16"	42"	72"	6YGL2
3/16"	42"	72"	6YGJ0
1/4"	1/4"	50 ft.	6YLV4
1/4"	3/8"	50 ft.	6YLV5
1/4"	1/2"	50 ft.	6YLV6
1/4"	5/8"	50 ft.	6YLV7
1/4"	3/4"	50 ft.	6YLV8
1/4"	1"	50 ft.	6YLV9
1/4"	1 1/2"	50 ft.	6YLW0
1/4"	2"	50 ft.	6YLW1
1/4"	3"	50 ft.	6YLW2
1/4"	42"	25 ft.	6YGK2
1/4"	42"	25 ft.	6YGN4
1/4"	42"	25 ft.	6YGR6
1/4"	42"	72"	6YGJ1
1/4"	42"	72"	6YGP5
1/4"	42"	72"	6YGL3
3/8"	3/8"	50 ft.	6YLW3
3/8"	1/2"	50 ft.	6YLW4
3/8"	5/8"	50 ft.	6YLW5
3/8"	3/4"	50 ft.	6YLW6
3/8"	1"	50 ft.	6YLW7
3/8"	1 1/2"	50 ft.	6YLW8
3/8"	2"	50 ft.	6YLW9
3/8"	3"	50 ft.	6YLX0
3/8"	42"	25 ft.	6YGN5
3/8"	42"	25 ft.	6YGK3
3/8"	42"	72"	6YGL4
3/8"	42"	72"	6YGJ2
7/16"	42"	72"	6YGL5
1/2"	1/2"	50 ft.	6YLX1
1/2"	5/8"	50 ft.	6YLX2
1/2"	3/4"	50 ft.	6YLX3
1/2"	1"	50 ft.	6YLX4
1/2"	1 1/2"	50 ft.	6YLX5
1/2"	2"	50 ft.	6YLX6
1/2"	3"	50 ft.	6YLX7
1/2"	42"	25 ft.	6YGK4
1/2"	42"	25 ft.	6YGR8
1/2"	42"	72"	6YGP7
1/2"	42"	72"	6YGJ3
3/4"	42"	25 ft.	6YGN7
3/4"	42"	72"	6YGJ4
3/4"	42"	72"	6YGP8
1"	42"	25 ft.	6YGK6
1"	42"	72"	6YGJ5
1"	42"	72"	6YGP9
1"	42"	72"	6YGL7
1 1/4"	42"	72"	6YGR0
1 1/4"	42"	72"	6YGJ6
1 1/2"	42"	72"	6YGJ7
1 1/2"	42"	72"	6YGR1
2"	42"	72"	6YGJ8
2"	42"	72"	6YGN0
2"	42"	72"	6YGR2
Nitrile			
Black			
1/16"	40"	68"	6YGY4
1/8"	40"	68"	6YGY5
1/4"	40"	68"	6YGY6
3/8"	40"	68"	6YGY7
Silicone			
Red			
1/16"	36"	10 ft.	497G61
1/8"	36"	10 ft.	497G62
1/4"	36"	10 ft.	497G64
3/8"	36"	10 ft.	497G65
Vinyl Nitrile			
Black			
1/4"	54"	72"	6YHA3
3/8"	54"	72"	6YHA4
1/2"	54"	72"	6YHA5
3/4"	54"	72"	6YHA6



Cross Linked Foam Sheets

GA GRAINGER APPROVED

Chemically Cross-Linked Polyethylene Foam is an extremely fine-celled foam, ideal for thermal insulation, construction expansion joints and industrial gaskets. It is also used as packaging and in flotation equipment, with its low moisture permeability and high buoyancy.

Thickness	Width	Length	Item No.
Polyethylene			
Black			
⅛"	48"	48"	**20JL35**
¼"	12"	24"	**20JL37**
¼"	24"	24"	**20JL43**
¼"	24"	24"	**20JL38**
¼"	24"	48"	**20JL39**
¼"	24"	48"	**20JL44**
¼"	48"	48"	**20JL40**
¼"	48"	96"	**20JL41**
⅜"	12"	24"	**20JL52**
⅜"	24"	24"	**20JL53**
⅜"	24"	48"	**20JL49**
⅜"	48"	48"	**20JL50**
⅜"	48"	96"	**20JL51**
½"	12"	24"	**20JL62**
½"	24"	24"	**20JL63**
½"	24"	24"	**20JL58**
½"	24"	48"	**20JL64**
½"	24"	48"	**20JL59**
½"	48"	48"	**20JL65**
½"	48"	48"	**20JL60**
½"	48"	96"	**20JL66**
½"	48"	96"	**20JL61**
¾"	12"	24"	**20JL67**
¾"	48"	48"	**20JL75**
¾"	48"	96"	**20JL71**
1"	24"	24"	**20JL83**
1"	24"	48"	**20JL84**
1"	24"	48"	**20JL79**
1"	48"	48"	**20JL80**
1"	48"	96"	**20JL81**
1"	48"	96"	**20JL86**
Blue			
¼"	24"	24"	**30WM45**
¼"	24"	48"	**30WM63**
¼"	24"	48"	**30WM48**
¼"	48"	48"	**30WM66**
¼"	48"	48"	**30WM51**
⅜"	24"	24"	**30WM90**
⅜"	24"	48"	**30WM78**
½"	24"	48"	**30WN24**
½"	24"	48"	**30WN09**
½"	48"	96"	**30WN30**
½"	48"	96"	**30WN15**
¾"	24"	48"	**30WN54**
¾"	48"	96"	**30WN45**
1"	24"	48"	**30WN82**
1"	48"	96"	**30WN75**
1"	48"	96"	**30WN86**
Charcoal			
½"	24"	24"	**5GCT6**
½"	48"	48"	**5GDG7**
¾"	12"	12"	**5GCK1**
1"	12"	12"	**5GCJ9**
1"	12"	12"	**5GCK5**
1"	24"	24"	**5GCW0**
1"	24"	24"	**5GCV4**
1"	48"	48"	**5GDH7**
1 1⁄16"	24"	24"	**5GCV2**
1 1⁄16"	48"	48"	**5GDH5**
Red			
⅛"	48"	96"	**30WM25**
¼"	24"	48"	**30WM49**
¼"	24"	48"	**30WM64**
¼"	48"	48"	**30WM67**
¼"	48"	96"	**30WM55**
½"	24"	48"	**30WN10**
½"	48"	96"	**30WN16**
1"	48"	48"	**30WN73**
White			
½"	48"	48"	**5GDG8**
1 1⁄16"	24"	24"	**5GCV9**
1 1⁄16"	48"	48"	**5GDJ2**
Yellow			
⅛"	48"	96"	**30WM41**
½"	24"	48"	**30WN11**
½"	48"	96"	**30WN17**
¾"	48"	48"	**30WN61**
¾"	48"	96"	**30WN47**
1"	48"	96"	**30WN77**



GA GRAINGER APPROVED

Open Cell Foam Sheets

Made to be soft and breathable, open cell foam can be utilized for a wide range of applications such as packaging, pillows, mattresses and sound insulation.

Thickness	Width	Length	Density	Item No.
Anti-Static Polyurethane				
Pink				
⅛"	36 in	36 in	1.4 lb/cu ft	**5GDC3**
¼"	24 in	24 in	1.4 lb/cu ft	**5GCT4**
¼"	54 in	82 in	1.4 lb/cu ft	**5GDL4**
1"	36 in	36 in	1.4 lb/cu ft	**5GDD1**
1"	54 in	82 in	1.4 lb/cu ft	**5GDL7**
1 ½"	54 in	82 in	1.4 lb/cu ft	**5GDL3**
Polyester				
Charcoal				
½"	48 in	54 in	2 lb/cu ft	**5GDK9**
1"	48 in	54 in	2 lb/cu ft	**5GDL2**
Polyurethane				
Charcoal				
½"	12 in	12 in	3 lb/cu ft	**5GCG3**
½"	24 in	24 in	3 lb/cu ft	**5GCU4**
½"	24 in	24 in	2 lb/cu ft	**5GCU5**
½"	24 in	72 in	3 lb/cu ft	**5GDN3**
½"	24 in	72 in	2 lb/cu ft	**5GDC9**
½"	36 in	36 in	2 lb/cu ft	**5GDN4**
¾"	12 in	12 in	3 lb/cu ft	**5GCP0**
¾"	24 in	72 in	3 lb/cu ft	**5GDR3**
¾"	24 in	72 in	2 lb/cu ft	**5GDF7**
1"	12 in	12 in	2 lb/cu ft	**5GCP7**
1"	12 in	12 in	3 lb/cu ft	**5GCP1**
1"	24 in	24 in	3 lb/cu ft	**5GCZ0**
1"	24 in	24 in	2 lb/cu ft	**5GCZ6**
1"	24 in	72 in	2 lb/cu ft	**5GDF8**
1"	24 in	72 in	3 lb/cu ft	**5GDR4**
1"	36 in	36 in	2 lb/cu ft	**5GDT0**
1"	36 in	36 in	3 lb/cu ft	**5GDF2**
1 ½"	24 in	24 in	3 lb/cu ft	**5GCZ1**
1 ½"	24 in	24 in	2 lb/cu ft	**5GCZ7**
1 ½"	24 in	72 in	3 lb/cu ft	**5GDR5**
1 ½"	36 in	36 in	2 lb/cu ft	**5GDT1**
2"	12 in	12 in	2.8 lb/cu ft	**5GCP3**
2"	12 in	12 in	2 lb/cu ft	**5GCP9**
2"	24 in	24 in	3 lb/cu ft	**5GCZ2**
2"	24 in	24 in	2 lb/cu ft	**5GCZ8**
2"	24 in	72 in	3 lb/cu ft	**5GDR6**
2"	24 in	72 in	2 lb/cu ft	**5GDG0**
2"	36 in	36 in	3 lb/cu ft	**5GDF4**
3"	24 in	24 in	3 lb/cu ft	**5GCZ3**
3"	24 in	72 in	3 lb/cu ft	**5GDR7**
3"	24 in	72 in	2 lb/cu ft	**5GDG1**
3"	36 in	36 in	2 lb/cu ft	**5GDT3**
4"	24 in	24 in	3 lb/cu ft	**5GCZ4**
4"	24 in	72 in	3 lb/cu ft	**5GDR8**
4"	24 in	72 in	2 lb/cu ft	**5GDG2**
4"	36 in	36 in	2 lb/cu ft	**5GDT4**
Natural				
1"	24 in	72 in	2.8 lb/cu ft	**5GDP8**
1"	24 in	72 in	2.8 lb/cu ft	**5GDN6**
2"	12 in	12 in	2.8 lb/cu ft	**5GCL5**
2"	24 in	72 in	2.8 lb/cu ft	**5GDN8**
2"	24 in	72 in	2.8 lb/cu ft	**5GDR0**
3"	24 in	72 in	2.8 lb/cu ft	**5GDR1**
4"	24 in	72 in	2.8 lb/cu ft	**5GDP6**
4"	24 in	72 in	2.8 lb/cu ft	**5GDP0**
4"	36 in	36 in	2.8 lb/cu ft	**5GDF0**
Silicone				
White				
1⁄16"	12 in	12 in	—	**20Y066**
1⁄16"	24 in	24 in	—	**20Y067**
1⁄16"	24 in	24 in	—	**20Y068**
1⁄16"	36 in	36 in	—	**20Y069**
1⁄16"	36 in	36 in	—	**20Y070**
3⁄16"	24 in	24 in	—	**20Y095**
¼"	24 in	24 in	—	**20Y080**
¼"	36 in	36 in	—	**20Y081**
¼"	36 in	36 in	—	**20Y082**
⅜"	12 in	12 in	—	**20Y106**
⅜"	12 in	12 in	—	**20Y107**
⅜"	24 in	24 in	—	**20Y108**
⅜"	24 in	24 in	—	**20Y109**
⅜"	36 in	36 in	—	**20Y110**
¾"	24 in	24 in	—	**20Y103**
¾"	36 in	36 in	—	**20Y105**
¾"	36 in	36 in	—	**20Y104**
1"	12 in	12 in	—	**20Y089**
1"	12 in	12 in	—	**20Y090**
1"	24 in	24 in	—	**20Y091**
1"	24 in	24 in	—	**20Y092**



GA GRAINGER APPROVED

Open Cell Foam Strips

Synthetic material that can be cut-to-size for packaging, cushioning, and insulation applications where water-resistance isn't needed. Excellent shock absorption and sound insulation. Microcellular Polyurethane foam has excellent compression set resistance that will not break down with repeated use.

Thickness	Width	Length	Item No.
Microcellular Polyurethane			
Black			
⅛"	¼"	10 ft.	**497J73**
⅛"	⅜"	10 ft.	**497J76**
⅛"	½"	10 ft.	**497J74**
⅛"	¾"	10 ft.	**497J75**
⅛"	1"	10 ft.	**497J77**
⅛"	2"	10 ft.	**497J78**
3⁄16"	¾"	10 ft.	**497J81**
3⁄16"	2"	10 ft.	**497J84**
¼"	¼"	10 ft.	**497J85**
¼"	⅜"	10 ft.	**497J88**
¼"	½"	10 ft.	**497J86**
¼"	¾"	10 ft.	**497J87**
¼"	1"	10 ft.	**497J89**
¼"	2"	10 ft.	**497J90**
⅜"	½"	10 ft.	**497J91**
⅜"	1"	10 ft.	**497J94**
⅜"	2"	10 ft.	**497J95**
½"	⅜"	10 ft.	**497J98**
½"	¾"	10 ft.	**497J97**
½"	1"	10 ft.	**497J99**
½"	2"	10 ft.	**497K01**

Thickness	Width	Length	Item No.
Polyurethane			
Black			
⅛"	½"	72"	**497J49**
⅛"	1"	72"	**497J52**
¼"	½"	72"	**497J62**
¼"	½"	72"	**497J50**
¼"	1"	72"	**497J65**
¼"	1"	72"	**497J53**
½"	1"	72"	**497J66**
½"	1"	72"	**497J54**
½"	2"	72"	**497J58**
½"	2"	72"	**497J70**
1"	1"	72"	**497J67**
1"	1"	72"	**497J55**
1"	2"	72"	**497J59**
1"	2"	72"	**497J71**
2"	2"	72"	**497J60**
2"	2"	72"	**497J72**
Charcoal			
1 ¼"	1 ¼"	42"	**5GCU6**
2 ¼"	2 ¼"	42"	**5GCU7**



GA GRAINGER APPROVED

Microcellular Foam Sheets

For repetitive use. Designed for long period of compression and shock absorbtion. Ideal inside devices and equipment such as phones, cars, and helmets.

Thickness	Width	Length	Adhesive Item No.	Plain Item No.
Poron Microcellular Urethane				
Black				
1⁄32"	12"	12"	**13C458**	**13C455**
1⁄32"	24"	24"	**13C459**	**13C456**
1⁄32"	54"	36"	**13C460**	**13C457**
1⁄16"	12"	12"	**13C464**	**13C461**
1⁄16"	24"	24"	**13C465**	**13C462**
1⁄16"	54"	36"	**13C466**	**13C463**
⅛"	12"	12"	—	**13C467**
⅛"	54"	36"	**13C472**	—
3⁄16"	12"	12"	**12M690**	**12M687**
3⁄16"	12"	12"	**12M715**	**12M712**
3⁄16"	24"	24"	**12M691**	**12M688**
3⁄16"	24"	24"	**12M716**	**12M713**
3⁄16"	54"	36"	**12M717**	—
¼"	12"	12"	**13C470**	**13C473**
¼"	12"	12"	**13C440**	**12M718**
¼"	12"	12"	**12M696**	**12M693**
¼"	24"	24"	**12M697**	**12M719**
¼"	24"	24"	**13C471**	**12M694**
¼"	24"	24"	—	**13C468**
¼"	54"	36"	**13C442**	**13C469**
¼"	54"	36"	**13C478**	—
⅜"	12"	12"	**13C446**	**12M699**
⅜"	12"	12"	**12M703**	**13C443**
⅜"	24"	24"	**13C447**	**13C444**
⅜"	54"	36"	**13C448**	—
½"	12"	12"	**13C452**	**13C449**
½"	12"	12"	**12M709**	**12M706**
½"	24"	24"	**13C453**	**12M707**
½"	24"	24"	**12M710**	**13C450**
½"	54"	36"	—	**13C451**
½"	54"	36"	—	**12M708**

Rubber Information

Rubber is frequently used in automotive and industrial machinery components, medical supplies, and building materials, as well as in vibration-dampening and leveling applications. Its elastic properties also make rubber ideal for a wide variety of sealing and insulation applications.

The specific type of rubber you need is determined upon your application, and depends upon:

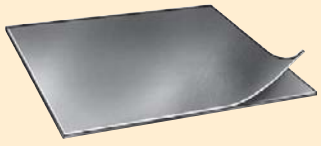
- Durometer (Duro.)/hardness
- Tensile strength
- Elongation (Elong.)
- Temperature range
- Resistance to chemicals, abrasion, and the elements

DEFINITIONS

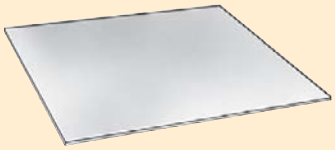
Durometer (Duro.)/Hardness—Elastomer material hardness is referred to as "durometer" and is measured on the Shore scale (e.g., durometer: 70 Shore A). The higher the durometer number, the harder the material.

Elongation (Elong.)—The measured percent increase in original length of a specimen when it breaks.

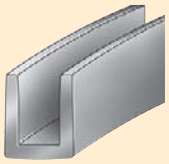
Tensile strength—Measured in psi, tensile strength is the amount of force the material can withstand before rupturing.



Adhesive-Backed Sheet & Strip



Plain-Backed Sheet & Strip



Edging



Roll



Grommet

RUBBER COMPARISON CHART FOR SHEETS, STRIPS, AND ROLLS

Note: For edging, see page 2206. For grommets, see page 2207.

Material	Page No.	Durometer	Tensile Strength (psi)	Elongation (%)	Max. Temp. (°F)	RESISTANCE TO: Adhesion to Metals	Compression Set	Abrasion	Corrosion/ Chemical	Electrical	Flame	Impact	Oil	Solvent	Tear	Resilience	Weather Aging
Buna N - High Grade	2202	40A	1500	500	225	Good/ Excellent	Good	Good/ Excellent	Fair	Poor	Poor	Fair	Good/ Excellent	Good/ Excellent	Fair/Good	Good	Poor
		50A	1500	400													
		60A	1500	300													
		70A	1500	250													
Buna N - Commercial Grade	2202	40A	800	400	220	Good/ Excellent	Good	Good/ Excellent	Fair	Poor	Poor	Fair	Good/ Excellent	Good/ Excellent	Fair/Good	Good	Poor
		50A	1000	300													
		60A	1000	200													
		70A	1000	200													
EPDM - General-Purpose Grade	2204	60A	1000	300	225	Fair/Good	Good	Good	Good	Fair	Poor	Fair	Poor	Poor	Poor/Fair	Good	Excellent
Gum (Natural) - Commercial Grade	2204	40A	3000	600	140	Excellent	Excellent	Excellent	Fair	Excellent	Poor	Excellent	Poor	Poor	Good/ Excellent	Excellent	Poor/Fair
Hypalon - High Grade	2204	60A	1500	350	220	Excellent	Fair	Good/ Excellent	Good	Good	Good	Fair	Fair/Good	Fair/Good	Fair/Good	Fair	Excellent
Neoprene - High Grade	2203	30A	1200	450	225	Good/ Excellent	Good	Good/ Excellent	Fair	Poor	Good	Good	Fair/Good	Fair	Fair/Good	Excellent	Good
		40A	1500	400													
		50A	1500	350													
		60A	1500	300													
		70A	1500	200													
Neoprene - Commercial Grade	2203	30A	1000	350	170	Good/ Excellent	Good	Good/ Excellent	Fair	Poor	Good	Good	Fair/Good	Fair	Fair/Good	Excellent	Good
		40A	1000	350													
		50A	1000	350													
		60A	1000	250													
Neoprene - Food Grade	2203	50A	1200	500	220	Good/ Excellent	Good	Good/ Excellent	Fair	Poor	Good	Good	Fair/Good	Fair	Fair/Good	Excellent	Good
Silicone - Commercial Grade	2205	30A	550	100	400	Good	Good	Poor/Fair	Fair	Good	Fair	Fair	Poor/Fair	Poor	Poor	Good	Excellent
		40A	550	350													
		50A	500	250													
		60A	500	200													
SBR Black - General-Purpose Grade	2205	70A	800	150	170	Excellent	Good	Good/ Excellent	Poor	Poor	Poor	Excellent	Poor	Poor	Fair/Good	Good	Poor/Fair
SBR Red - General-Purpose Grade	2205	70A	400	150	170	Excellent	Good	Good/ Excellent	Poor	Poor	Poor	Excellent	Poor	Poor	Fair/Good	Good	Poor/Fair
Viton® - General-Purpose Grade	2204	70A	800	200	400	Good	Good	Good	Good	Good	Excellent	Poor	Excellent	Excellent	Good	Fair	Good/ Excellent

Fabric-Reinforced Rubber Sheets

E.James & Co.

SUPPLIER DIVERSITY®

- Temp. range: -20° to 180°F
- Tensile strength: 1500 psi - Neoprene, 600 psi - SBR
- Commercial grade
- Smooth surface
- Plain backing type

Meet ASTM standards.

Thickness	1 ft. x 12" Item No.	1 ft. x 24" Item No.	1 ft. x 36" Item No.	5 ft. x 36" Item No.	10 ft. x 36" Item No.
Neoprene, Durometer 60A, Elongation 230%, Black					
1/16"	6YHE7	6YHE8	6YHE9	6YHF0	6YHF1
1/8"	6YHF2	6YHF3	6YHF4	6YHF5	6YHF6
3/16"	6YHF7	6YHF8	6YHF9	6YHG0	6YHG1
1/4"	6YHG2	6YHG3	6YHG4	6YHG5	6YHG6
SBR, Durometer 60A, Elongation 450%, Black					
1/16"	6YHG7	6YHG8	6YHG9	6YHH0	6YHH1
1/8"	6YHH2	6YHH3	6YHH4	6YHH5	6YHH6
1/4"	6YHH7	6YHH8	6YHH9	6YHJ0	6YHJ1
1/4"	6YHJ2	6YHJ3	6YHJ4	6YHJ5	—



No. 6YHF1

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders


Sheet

Buna N Rubber Sheets

E. James & Co.

- Commercial grade: meet ASTM D2000 BF standards
- White food grade: made with FDA-approved ingredients
- High grade: meet ASTM D2000 BG standards
- Additional sizes available, goto grainger.com

Rubber Thickness	Duro.	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
Rubber Sheet, Commercial Grade, Black			
12" x 1 ft.			
1/16"	40A	1XWZ7	—
1/16"	60A	—	1TXU4
3/32"	50A	—	1TXJ8
1/8"	40A	1XWZ9	1TXC3
1/8"	50A	1XYG6	—
1/8"	60A	1XYR3	1TXU6
1/8"	70A	1XYZ9	—
1/4"	40A	1XYA2	—
1/4"	70A	1XZA2	—
1/2"	60A	1XYR7	—
3/4"	40A	1XYA5	—
1"	40A	1XYA6	—
1"	70A	1XZA6	—
12" x 2 ft.			
1/32"	40A	—	1TXD1
1/16"	40A	1XYA8	—
1/16"	70A	1XZA8	—
3/32"	40A	1XYA9	—
3/32"	60A	1XYT3	—
1/8"	40A	1XYB1	—
1/8"	50A	1XYH7	—
1/8"	70A	—	1TYE4
3/16"	40A	1XYB2	—
1/4"	40A	1XYB3	—
1/2"	50A	1XYJ2	—
3/4"	60A	—	1TXY3
12" x 3 ft.			
1/16"	40A	1XYB9	1TXE3
1/16"	50A	—	1TXL9
1/16"	60A	1XYU3	1TXY6
1/16"	70A	1XZB9	1TYF3
3/32"	40A	—	1TXE4
1/8"	40A	1XYC2	1TXE5
1/8"	50A	1XYJ8	—
1/8"	60A	1XYU5	1TXY8
1/8"	70A	1XZC2	1TYF5
1/4"	40A	1XYC4	—
1/4"	50A	1XYK1	—
1/4"	70A	1XZC4	1TYF7
3/8"	60A	1XYU8	—
1/2"	40A	1XYC6	1TXE9
1/2"	70A	1XZC6	1TYF9
3/4"	40A	1XYC7	—
1"	70A	1XZC8	—
36" x 3 ft.			
3/4"	40A	3EFV6	—
3/4"	50A	3EFW7	—
1"	60A	3EFX5	—
Rubber Sheet, FDA Grade, White			
12" x 1 ft.			
1/16"	60A	1TVK5	1TVH8
1/8"	60A	1TVK8	—
1/4"	60A	1TVL5	—
12" x 2 ft.			
1/16"	60A	1TVL8	—
1/8"	60A	1TVN2	1TVJ8
1/4"	60A	1TVN7	—
12" x 3 ft.			
1/16"	60A	1TVP1	—
1/8"	60A	1TVP4	1TVK9
3/16"	60A	1TVP7	1TVL3
1/4"	60A	1TVR1	1TVL6
Rubber Sheet, High Grade, Black			
12" x 1 ft.			
1/16"	40A	1DPZ4	—
3/32"	50A	1DRG2	—
1/8"	40A	1DPZ6	—
1/4"	40A	1DPZ8	—
1"	40A	1DRA3	—
12" x 2 ft.			
1/8"	40A	1DRA7	—
1"	60A	1DRT7	—
12" x 3 ft.			
1/16"	40A	1DRB6	—
1/8"	40A	1DRB8	—
3/16"	60A	1DRU3	—
1/4"	60A	—	1TWN4
1/4"	70A	1DTB1	—
1/2"	70A	1DTB3	—
3/4"	60A	1DRU7	—
1"	70A	1DTB5	—
Rubber Strip, Commercial Grade, Black			
2" x 3 ft.			
1/16"	40A	—	1TXF4
1/8"	40A	1XYD3	1TXF6
1/8"	50A	—	1TXP3
1/8"	60A	—	1TXZ9
1/8"	70A	—	1TYG6
3/16"	40A	—	1TXF7
3/16"	70A	—	1TYG7
1/4"	40A	—	1TXF8
1/4"	50A	—	1TXP5
1/4"	60A	—	1TYA2
1/4"	70A	—	1TYG8
1/2"	40A	1XYD7	—
1/2"	50A	—	1TXP7
1/2"	60A	—	1TYA4
1/2"	70A	—	1TYH1
3/4"	60A	—	1TYA5
3/4"	70A	—	1TYH2
4" x 3 ft.			
1/16"	40A	—	1TXG5
1/8"	70A	—	1TYH7
1/4"	40A	—	1TXG9
1/4"	70A	1XZE6	1TYH9
1/2"	40A	—	1TXH2
1/2"	50A	—	1TXR8
1/2"	60A	1XYY2	1TYB5
1/2"	70A	1XZE8	—
3/4"	70A	1XZE9	—
1"	60A	1XYY4	1TYB7
6" x 3 ft.			
3/16"	50A	1XYP3	—
3/8"	70A	1XZF8	—
Rubber Strip, FDA Grade, White			
2" x 3 ft.			
1/16"	60A	—	1TVL9
1/8"	60A	1TVR7	1TVN3
3/16"	60A	—	1TVN6
1/4"	60A	1TVT4	1TVN9
4" x 3 ft.			
1/16"	60A	—	1TVP3
1/8"	60A	1TVT9	1TVP6
1/4"	60A	—	1TVR2
6" x 3 ft.			
1/16"	60A	—	1TVR5
1/8"	60A	1TVU8	1TVR8
Rubber Strip, High Grade, Black			
2" x 3 ft.			
3/16"	70A	—	1TWZ1
1/4"	70A	—	1TWZ2
1/2"	70A	1DTC4	1TWZ4
4" x 3 ft.			
3/4"	40A	1DRE6	—


No. 3EEV1

Buna N Rubber Rolls

E. James & Co.

- Commercial grade: meet ASTM D2000 BF standards
- White food grade: made with FDA-approved ingredients
- High grade: meet ASTM D2000 BG standards
- Additional sizes available, goto grainger.com

Rubber Thickness	Duro.	PLAIN BACKING Item No.
Rubber Roll, Commercial Grade, Black		
36" x 10 ft.		
3/16"	40A	6VNR0
3/16"	50A	6VNT0
3/16"	60A	6VNU0
3/16"	70A	6VNV0
1/4"	40A	6VNP7
1/4"	50A	6VNR7
1/4"	60A	6RUF3
1/4"	60A	6VNT7
1/4"	70A	6VNU7
3/8"	40A	6VNR3
3/8"	60A	6VNU3
3/8"	70A	6VNV3
1/2"	40A	6VNP5
1/2"	50A	6VNR5
1/2"	60A	6VNT5
1/2"	70A	6VNU5
36" x 12 ft.		
1/2"	40A	3EFU8
1/2"	70A	3EFY2
36" x 15 ft.		
3/32"	40A	6VNR1
3/32"	70A	6VNV1
1/8"	40A	6VNP8
1/8"	50A	6VNR8
1/8"	60A	6VNH1
1/8"	60A	6VNT8
1/8"	70A	6VNU8

Rubber Thickness	Duro.	PLAIN BACKING Item No.
36" x 16 ft.		
3/8"	50A	3EFW8
3/8"	70A	3EFZ1
36" x 24 ft.		
1/4"	40A	3EFV1
1/4"	50A	3EFW2
1/4"	60A	3EFX3
1/4"	70A	3EFY4
36" x 25 ft.		
1/16"	40A	6VNP4
1/16"	50A	6VNR4
1/16"	60A	6RUF2
1/16"	60A	6VNT4
1/16"	70A	6VNU4
36" x 50 ft.		
1/32"	40A	6VNP6
1/32"	60A	6VNT6
1/32"	70A	6VNU6
Rubber Roll, FDA Grade, White		
36" x 10 ft.		
3/16"	60A	6RUF1
1/4"	60A	6RUE9

Rubber Thickness	Duro.	PLAIN BACKING Item No.
36" x 15 ft.		
1/8"	60A	6RUF0
36" x 25 ft.		
1/16"	60A	6RUE8
36" x 40 ft.		
1/4"	60A	3EEV1
36" x 50 ft.		
1/8"	60A	3EEV2
Rubber Roll, High Grade, Black		
36" x 10 ft.		
3/16"	40A	6VNX0
3/16"	70A	6VNY0
36" x 15 ft.		
3/32"	50A	6VNZ1
1/8"	70A	6VNX8
36" x 40 ft.		
3/16"	70A	3EGD8
36" x 50 ft.		
1/32"	70A	6VNX6
1/8"	50A	3EGE7
1/8"	60A	3EFZ6
1/8"	70A	3EGD6
36" x 100 ft.		
1/16"	70A	3EGD1


Sheet


Roll

Butyl Rubber

E. James & Co.

- Meets ASTM D2000 AA standards

Rubber Thickness	Duro.	12" x 3 ft. Plain Backing Item No.	12" x 3 ft. Adhesive Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 2 ft. Adhesive Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 1 ft. Adhesive Backing Item No.	6" x 3 ft. Plain Backing Item No.	6" x 3 ft. Adhesive Backing Item No.	4" x 3 ft. Plain Backing Item No.	4" x 3 ft. Adhesive Backing Item No.	2" x 3 ft. Plain Backing Item No.	2" x 3 ft. Adhesive Backing Item No.
Commercial Grade, Black													
1/16"	60A	1XWV3	1XWY3	1XWU9	1XWX9	1XWU6	1XWX6	1XWX3	1XWZ3	1XWV9	1XWY9	1XWV6	1XWY6
1/8"	60A	1XWV4	1XWY4	1XWV1	1XWY1	1XWU7	1XWX7	1XWX4	1XWZ4	1XWX1	1XWZ1	1XWV7	1XWY7
1/4"	60A	1XWV5	1XWY5	1XWV2	1XWY2	1XWU8	1XWX8	1XWX5	1XWZ5	1XWX2	1XWZ2	1XWV8	1XWY8

Rubber Thickness	Duro.	Rubber Length	Item No.
Commercial Grade, Black 36" Roll			
1/16"	60A	25 ft.	6RUF2
1/8"	60A	15 ft.	6VNH1
1/4"	60A	10 ft.	6RUF3

Rubber Thickness	Duro.	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
Rubber Sheet, Commercial Grade, Black			
12" x 1 ft.			
1/16"	30A	1MUN6	—
1/8"	30A	1MUN8	—
1/8"	40A	1MUZ2	—
3/16"	30A	1MUN9	—
1/4"	30A	1MUP1	—
1/4"	60A	1MVP1	1MRX5
3/8"	30A	1MUP2	1DXD1
1/2"	30A	1MUP3	—
1/2"	50A	—	1MRP4
1/2"	60A	1MVP3	—
1/2"	70A	1MTR1	—
3/4"	30A	1MUP4	—
3/4"	70A	1MTR2	—
1"	30A	1MUP5	—
1"	60A	1MVP5	—
1"	70A	1MTR3	—
12" x 2 ft.			
1/16"	30A	1MUP6	—
1/16"	60A	1MVP6	—
1/8"	30A	1MUP8	—
1/8"	50A	1MVG5	—
1/8"	60A	1MVP9	—
1/4"	30A	1MUR1	—
1/4"	40A	1MVA4	—
1/4"	60A	1MVR4	—
1"	50A	1MVH2	—
1"	60A	1MVT3	—
12" x 3 ft.			
1/16"	30A	1MUR6	—
1/16"	60A	—	1MRZ1
3/32"	30A	1MUR7	—
1/8"	30A	1MUR8	1DXE7
1/8"	40A	1MVB2	1MRH6
1/8"	60A	1MVT9	1MRZ3
1/8"	70A	1MTR6	—
3/16"	30A	1MUR9	—
3/16"	60A	1MVU2	—
1/4"	30A	1MUV1	1DXE9
1/4"	40A	1MVB4	1MRH8
1/4"	50A	1MVH7	—
1/4"	60A	1MVU4	1MRZ5
1/4"	70A	1MTR8	—
3/8"	30A	1MUV2	—
3/8"	60A	1MVU6	—
1/2"	40A	1MVB6	—
1/2"	50A	1MVH9	—
1/2"	60A	1MVU8	1MRZ7
1/2"	70A	1MTT1	—

Rubber Thickness	Duro.	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
Rubber Sheet, FDA Grade, White			
12" x 1 ft.			
3/32"	50A	1MXD1	—
1/8"	50A	1MXD3	—
1/4"	50A	1MXD7	—
1/2"	50A	1MXE2	—
12" x 2 ft.			
1/8"	50A	1MXF2	—
3/16"	50A	1MXF4	—
1/4"	50A	1MXF6	—
3/8"	50A	1MXF8	—
1/2"	50A	1MXG1	—
12" x 3 ft.			
1/16"	50A	1MXG7	—
3/32"	50A	1MXG9	—
1/8"	50A	1MXH2	—
3/16"	50A	1MXH4	—
1/4"	50A	1MXH6	—
3/8"	50A	1MXH8	—
1/2"	50A	1MXJ1	—
3/4"	50A	1MXJ3	—
1"	50A	1MXJ5	—
Rubber Sheet, High Grade, Black			
12" x 1 ft.			
1/4"	60A	1DVT8	—
3/4"	30A	1DTU9	—
3/4"	70A	1DWK3	—
1"	60A	1DVU7	—
1"	70A	1DWK5	—
12" x 2 ft.			
3/16"	70A	1DWL4	—
1/2"	70A	1DWN1	—
12" x 3 ft.			
1/16"	30A	1DTW2	1DUB6
1/8"	70A	1DWP2	—
1/4"	60A	1DWA7	—
1/4"	70A	1DWP6	—
1/2"	70A	1DWR1	—
1"	70A	1DWR5	—
36" x 3 ft.			
3/4"	30A	3EEG7	—
1"	40A	3EEH4	—
Rubber Strip, Commercial Grade, Black			
2" x 3 ft.			
1/32"	30A	—	1DXF5
1/32"	40A	—	1MRJ4
1/32"	60A	—	1MTA1
1/16"	40A	—	1MRJ5
1/16"	60A	—	1MTA2
3/32"	60A	—	1MTA3

E.James & Co. SUPPLIER DIVERSITY®

Neoprene Rubber Sheets

- Commercial grade: meet ASTM D2000 BC standards
- White food grade: made with FDA-approved ingredients
- High grade: meet ASTM D2000 BC standards
- Additional sizes available, goto grainger.com


Sheet

Rubber Thickness	Duro.	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
1/8"	40A	1MVC3	—
3/16"	30A	—	1DXF9
3/16"	50A	—	1MRU2
3/16"	60A	—	1MTA5
1/4"	30A	1MUW2	1DXG1
1/4"	40A	—	1MRJ9
1/4"	50A	1MVJ8	1MRU3
1/4"	60A	1MVZ6	1MTA6
3/8"	50A	—	1MRU4
3/8"	60A	—	1MTA7
1/2"	30A	—	1DXG3
1/2"	60A	—	1MTA8
3/4"	60A	—	1MTA9
1"	30A	—	1DXG5
1"	50A	—	1MRU7
1"	60A	1MWA5	—
4" x 3 ft.			
1/16"	40A	—	1MRK6
1/8"	30A	1MUX1	1DXG9
1/8"	40A	1MVD4	1MRK8
1/8"	60A	—	1MTB5
3/16"	40A	—	1MRK9
3/16"	50A	—	1MRV3
1/4"	30A	1MUX3	1DXH2
1/4"	40A	1MVD6	1MRL1
1/4"	50A	1MVK9	1MRV4
1/4"	60A	—	1MTB7
1/2"	40A	1MVD8	—
1/2"	50A	1MVL2	1MRV6
1/2"	60A	1MWC3	1MTB9
3/4"	50A	—	1MRV7
1"	30A	1MUX7	1DXH6
1"	40A	1MVE1	—
1"	60A	1MWC7	1MTC2

Rubber Thickness	Duro.	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
6" x 3 ft.			
1/16"	30A	—	1DXH8
1/4"	60A	1MWF1	—
3/8"	50A	1MVN2	1MRW6
1/2"	30A	—	1DXJ5
1/2"	60A	1MWF5	—
1"	50A	—	1MRW9
Rubber Strip, High Grade, Black			
2" x 3 ft.			
1/16"	30A	—	1DUF7
1/16"	40A	—	1DVB1
1/8"	30A	—	1DUG4
1/8"	70A	—	1DWZ7
1/4"	40A	—	1DVB9
1/4"	60A	—	1DWJ2
1/4"	70A	1DWT6	1DWZ9
3/8"	50A	—	1DVT3
1/2"	30A	—	1DUK7
1/2"	40A	—	1DVC4
1/2"	50A	—	1DVT5
3/4"	50A	—	1DVT7
1"	70A	1DWU5	—
4" x 3 ft.			
3/16"	40A	1DUY8	—
1/4"	40A	—	1DVD9
3/8"	50A	—	1DVX3
3/4"	60A	1DWF4	—
3/4"	70A	1DWX2	—
1"	30A	—	1DUP7
6" x 3 ft.			
3/4"	60A	—	1DWP9
3/4"	70A	—	1DXC3
1"	30A	—	1DUT7
1"	70A	1DWZ4	—

Neoprene Rubber Rolls

E.James & Co. SUPPLIER DIVERSITY®

- Commercial grade: meet ASTM D2000 BC standards
- White food grade: made with FDA-approved ingredients
- High grade: meet ASTM D2000 BC standards
- Additional sizes available, goto grainger.com


No. 3EFT2

Rubber Thickness	Duro.	PLAIN BACKING Item No.
Rubber Roll, Commercial Grade, Black		
36" x 10 ft.		
3/16"	30A	6VPA0
3/16"	40A	6VPC0
3/16"	50A	6VPD0
3/16"	60A	6VPE0
1/4"	30A	6VNZ7
1/4"	40A	6VPA7
1/4"	50A	6VPC7
1/4"	60A	6VPD7
3/8"	30A	6VPA3
3/8"	50A	6VPD3
3/8"	60A	6VPE3
36" x 15 ft.		
3/32"	30A	6VPA1
3/32"	40A	6VPC1
3/32"	50A	6VPD1
1/8"	30A	6VNZ8
1/8"	40A	6VPA8
1/8"	50A	6VPC8
1/8"	60A	6VPD8
36" x 25 ft.		
1/16"	30A	6VNZ4

Rubber Thickness	Duro.	PLAIN BACKING Item No.
36" x 30 ft.		
1/2"	60A	3EGJ8
36" x 40 ft.		
3/16"	30A	3EGG1
3/16"	40A	3EGH2
3/16"	50A	3EGJ3
3/16"	60A	3EGK4
1/4"	30A	3EGF7
1/4"	40A	3EGG8
1/4"	50A	3EGH9
1/4"	60A	3EGK1
1/4"	70A	3EEN6
36" x 50 ft.		
1/8"	30A	3EGF8
1/8"	40A	3EGG9
1/8"	50A	3EGJ1
1/8"	60A	3EGK2
1/8"	70A	3EEN7
36" x 66 ft.		
3/32"	60A	3EGK5
36" x 100 ft.		
1/16"	30A	3EGF4
1/16"	50A	3EGH6

Rubber Thickness	Duro.	PLAIN BACKING Item No.
Rubber Roll, FDA Grade, White		
36" x 10 ft.		
3/16"	50A	6VNN2
1/4"	50A	6VNL9
3/8"	50A	6VNN5
36" x 15 ft.		
1/8"	50A	6VNN0
36" x 25 ft.		
1/16"	50A	6VNL7
36" x 51 ft.		
1/8"	50A	3EFT2
Rubber Roll, High Grade, Black		
36" x 10 ft.		
3/16"	30A	6ZTV1
3/16"	60A	6ZTW9
3/16"	70A	6VNL3
1/4"	30A	6ZTU8
1/4"	50A	6VNJ7
1/4"	70A	6VNL0
1/2"	50A	6VNJ6
1/2"	60A	6ZTW5

Rubber Thickness	Duro.	PLAIN BACKING Item No.
36" x 15 ft.		
1/8"	50A	6VNJ8
1/8"	70A	6VNL1
36" x 30 ft.		
3/8"	30A	3EEG8
3/8"	60A	3EEJ8
36" x 40 ft.		
3/16"	50A	3EFN9
1/4"	50A	3EFN6
1/4"	70A	3EFR1
36" x 50 ft.		
1/8"	30A	3EEG3
1/8"	40A	3EEH3
1/8"	50A	3EFN7
1/8"	60A	3EEJ3
36" x 100 ft.		
1/16"	70A	3EFP8

Vinyl Rubber

E.James & Co. SUPPLIER DIVERSITY®

Rubber Thickness	Duro.	12" x 1 ft. Plain Backing Item No.	12" x 1 ft. Adhesive Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 2 ft. Adhesive Backing Item No.	12" x 3 ft. Plain Backing Item No.	12" x 3 ft. Adhesive Backing Item No.
Black Sheet							
1/16"	70A	1MXT5	1TVG1	1MXT9	1TVG5	1MXU4	1TZH1
1/8"	70A	1MXT6	1TVG2	1MXU1	1TVG6	1MXU5	1TZH2
3/16"	70A	1MXT7	1TVG3	1MXU2	1TVG7	1MXU6	—
1/4"	70A	1MXT8	1TVG4	1MXU3	1TVG8	1MXU7	1TZH4


Sheet

Rubber Thickness	Duro.	Rubber Length	Item No.
Black 36" Roll			
1/16"	70A	25 ft.	6VNK4
1/16"	70A	150 ft.	3EFP4
1/4"	70A	10 ft.	6VNK5
1/4"	70A	50 ft.	3EFP5


Roll

Rubber Thickness	Duro.	Rubber Length	Item No.
1/8"	70A	15 ft.	6VNK6
1/8"	70A	75 ft.	3EFP6
3/16"	70A	10 ft.	6VNK7
3/16"	70A	60 ft.	3EFP7

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders





EPDM Rubber

- Meets ASTM D2000 BA standards

E.James & Co.

Rubber Thickness	Duro.	2" x 3 ft. Adhesive Backing Item No.	2" x 3 ft. Plain Backing Item No.	4" x 3 ft. Adhesive Backing Item No.	4" x 3 ft. Plain Backing Item No.	6" x 3 ft. Adhesive Backing Item No.	6" x 3 ft. Plain Backing Item No.	12" x 1 ft. Adhesive Backing Item No.	12" x 2 ft. Adhesive Backing Item No.	12" x 3 ft. Adhesive Backing Item No.
Commercial Grade, Black										
1/32"	60A	1MYJ3	—	1MYK2	—	1MYL1	—	1MYD9	1MYF7	1MYH4
1/16"	60A	1MYJ4	—	1MYK3	—	1MYL2	—	1MYE2	1MYF9	1MYH5
3/32"	60A	1MYJ5	—	1MYK4	—	1MYL3	—	1MYE4	1MYG2	1MYH6
1/8"	60A	1MYJ6	—	1MYK5	—	1MYL4	—	1MYE6	1MYG4	1MYH7
3/16"	60A	1MYJ7	—	1MYK6	—	1MYL5	—	1MYE8	1MYG6	—
1/4"	60A	1MYJ8	—	1MYK7	—	1MYL6	—	1MYF1	1MYG8	1MYH9
3/8"	60A	1MYJ9	—	1MYK8	—	1MYL7	—	1MYF3	1MYH1	—
1/2"	60A	1MYK1	—	1MYK9	—	1MYL8	—	1MYF5	1MYH3	1MYJ2

Rubber Thickness	Duro.	Rubber Length	Item No.
Commercial Grade, Black 36" Roll			
1/32"	60A	50 ft.	6ZTY9
1/32"	60A	150 ft.	3EEL7
1/16"	60A	25 ft.	6ZTY7
1/16"	60A	100 ft.	3EEL5
3/32"	60A	15 ft.	6ZTZ3

Rubber Thickness	Duro.	Rubber Length	Item No.
1/8"	60A	10 ft.	36XT59
1/8"	60A	15 ft.	6ZTZ1
1/8"	60A	25 ft.	36XT60
1/8"	60A	50 ft.	3EEL9
3/16"	60A	10 ft.	6ZTZ2
3/16"	60A	40 ft.	3EEN1

Rubber Thickness	Duro.	Rubber Length	Item No.
1/4"	60A	5 ft.	36XT58
1/4"	60A	15 ft.	36XT56
1/4"	60A	40 ft.	3EEL8
3/8"	60A	10 ft.	6ZTZ4
1/2"	60A	10 ft.	6ZTY8
Military Specification Grade, Black 36" Roll			
1/4"	80A	3 ft.	3TFT3





Gum Rubber (Natural)

- Meet ASTM D2000 AA standards

E.James & Co.

Rubber Thickness	Duro.	2" x 3 ft. Plain Backing Item No.	4" x 3 ft. Plain Backing Item No.	6" x 3 ft. Plain Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 3 ft. Plain Backing Item No.
Tan							
1/16"	40A	1XWF3	1XWG2	1XWH1	1XWC6	1XWD5	1XWE4
1/8"	40A	1XWF4	1XWG3	1XWH2	1XWC7	1XWD6	1XWE5
3/16"	40A	1XWF5	1XWG4	1XWH3	1XWC8	1XWD7	1XWE6
1/4"	40A	1XWF6	1XWG5	1XWH4	1XWC9	1XWD8	1XWE7
3/8"	40A	1XWF7	1XWG6	1XWH5	1XWD1	1XWD9	1XWE8
1/2"	40A	1XWF8	1XWG7	1XWH6	1XWD2	1XWE1	1XWE9
3/4"	40A	1XWF9	1XWG8	1XWH7	1XWD3	1XWE2	1XWF1
1"	40A	1XWG1	1XWG9	1XWH8	1XWD4	1XWE3	1XWF2

Rubber Thickness	Duro.	Rubber Length	Item No.
Tan 36" Roll			
1/16"	40A	25 ft.	6VNN6
1/16"	40A	100 ft.	3EFT8
1/2"	40A	10 ft.	6VNN7
1/2"	40A	30 ft.	3EFT9

Rubber Thickness	Duro.	Rubber Length	Item No.
1/4"	40A	5 ft.	36XV41
1/4"	40A	10 ft.	6VNN8
1/4"	40A	40 ft.	3EFU1
1/8"	40A	10 ft.	36XV42
1/8"	40A	15 ft.	6VNN9

Rubber Thickness	Duro.	Rubber Length	Item No.
1/8"	40A	25 ft.	36XV43
1/8"	40A	50 ft.	3EFU2
3/16"	40A	10 ft.	6VNP1
3/16"	40A	40 ft.	3EFU4
3/8"	40A	10 ft.	6VNP3
3/8"	40A	30 ft.	3EFU6





Hypalon® Rubber

- Meets ASTM D2000 CE standards

E.James & Co.

Rubber Thickness	Duro.	2" x 3 ft. Plain Backing Item No.	2" x 3 ft. Adhesive Backing Item No.	4" x 3 ft. Plain Backing Item No.	4" x 3 ft. Adhesive Backing Item No.	6" x 3 ft. Plain Backing Item No.	6" x 3 ft. Adhesive Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 1 ft. Adhesive Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 2 ft. Adhesive Backing Item No.	12" x 3 ft. Plain Backing Item No.	12" x 3 ft. Adhesive Backing Item No.
Black													
1/16"	60A	1DUE3	1TZK2	1DUF9	1TZK7	1DUK5	1TZL3	1DTY5	1TZH5	1DUA1	1TZJ1	1DUB7	1TZJ6
3/32"	60A	1DUE6	1TZK3	1DUG3	1TZK8	1DUK8	1TZL4	1DTY7	—	1DUA4	—	1DUC1	1TZJ7
1/8"	60A	1DUE9	1TZK4	1DUG6	1TZK9	1DUL1	1TZL5	1DTZ1	1TZH7	1DUA7	1TZJ3	1DUC4	1TZJ8
3/16"	60A	1DUF3	1TZK5	1DUG9	1TZL1	1DUL4	1TZL6	1DTZ4	1TZH8	1DUB1	—	1DUC6	1TZJ9
1/4"	60A	1DUF6	1TZK6	1DUK3	1TZL2	1DUL7	1TZL7	1DTZ7	1TZH9	1DUB4	1TZJ5	1DUC9	1TZK1

Rubber Thickness	Duro.	Rubber Length	Item No.
Black 36" Roll			
1/16"	60A	25 ft.	6VNH2
1/16"	60A	67 ft.	3EEV7

Rubber Thickness	Duro.	Rubber Length	Item No.
1/4"	60A	10 ft.	6VNH3
1/4"	60A	36 ft.	3EEV8
1/8"	60A	5 ft.	36XU67

Rubber Thickness	Duro.	Rubber Length	Item No.
1/8"	60A	10 ft.	36XU66
1/8"	60A	15 ft.	6VNH4
3/32"	60A	10 ft.	36XU70





E.James & Co.

Viton® Rubber

- Meets ASTM D2000 HK standards

Rubber Thickness	Duro.	2" x 3 ft. Plain Backing Item No.	4" x 3 ft. Plain Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 3 ft. Plain Backing Item No.
Black						
1/32"	70A	1MXZ5	1MYA4	1MXU8	1MXW7	1MXY6
1/16"	70A	1MXZ6	1MYA5	1MXU9	1MXW8	1MXY7
3/32"	70A	1MXZ7	1MYA6	1MXW1	1MXW9	1MXY8
1/8"	70A	1MXZ8	1MYA7	1MXW2	1MXY1	1MXY9
3/16"	70A	1MXZ9	1MYA8	1MXW3	1MXY2	1MXZ1
1/4"	70A	1MYA1	1MYA9	1MXW4	1MXY3	1MXZ2
3/8"	70A	1MYA2	—	1MXW5	—	1MXZ3
1/2"	70A	1MYA3	1MYB2	1MXW6	1MXY5	1MXZ4

Rubber Thickness	Duro.	Rubber Length	Item No.
Black 36" Roll			
1/8"	70A	3 ft.	36XU80

Rubber Thickness	Duro.	Rubber Length	Item No.
1/8"	70A	5 ft.	36XU81
1/8"	70A	15 ft.	6VNJ1

Rubber Thickness	Duro.	Rubber Length	Item No.
3/16"	70A	5 ft.	36XU83
3/16"	70A	10 ft.	6VNJ2

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders

Skirtboard

E.James & Co. Supplier Diversity

- Durometer: 60A
- Tensile strength: 1000 psi
- Temp range: -25°F to 175°F
- Elongation: 300%

SBR (styrene butadiene rubber) is considered a hybrid material consisting of a mixture of gum rubber and SBR. Smooth finish with plain backing. Meets D2000-M1-AA608 standard.



Rubber Thickness	10 ft. Length 6" WIDTH Item No.	10 ft. Length 12" WIDTH Item No.	25 ft. Length 6" WIDTH Item No.	25 ft. Length 12" WIDTH Item No.	50 ft. Length 6" WIDTH Item No.	50 ft. Length 12" WIDTH Item No.
High Grade, Black						
¼"	15J101	15J104	15J102	15J105	15J103	15J106
⅜"	15J107	15J110	15J108	15J111	15J109	15J112
½"	15J113	15J116	15J114	15J117	15J115	15J118
¾"	15J119	15J122	15J120	15J123	15J121	15J124
1"	15J125	15J128	15J126	15J129	15J127	—

Silicone Rubber

E.James & Co. Supplier Diversity

- Meet ASTM D2000 GE standards





Rubber Thickness	▶CHOOSE: Duro.	2" x 3 ft. Plain Backing Item No.	2" x 3 ft. Adhesive Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 1 ft. Adhesive Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 2 ft. Adhesive Backing Item No.	12" x 3 ft. Plain Backing Item No.	12" x 3 ft. Adhesive Backing Item No.
Commercial Grade, Red									
1/32"	30A, 40A, 50A, 60A	D5297	D5306	D7221	D7247	D7229	D7256	D7238	D7265
1/16"	30A, 40A, 50A, 60A	D5298	D5307	D7222	D7248	D7231	D7257	D7239	D7266
3/32"	30A, 40A, 50A, 60A	D5299	D5308	D7223	D7249	D7232	—	D7241	—
	30A, 40A, 50A	—	—	—	—	—	D7258	—	D7267
1/8"	30A, 40A, 50A, 60A	D5301	D5309	D7224	D7251	D7233	D7259	D7242	D7268
	30A, 50A, 60A	—	—	—	D7252	—	—	—	—
3/16"	30A, 40A, 50A, 60A	D5302	D5311	D7225	—	D7234	—	D7243	—
	30A, 60A	—	—	—	—	—	D7261	—	—
	30A, 40A	—	—	—	—	—	—	—	D7269
1/4"	30A, 40A, 50A, 60A	D5303	D5312	D7226	D7253	D7235	—	D7244	D7271
	30A, 40A	—	—	—	—	—	D7262	—	—
3/8"	30A, 40A, 50A, 60A	D5304	D5313	D7227	—	D7236	—	—	—
	30A, 50A	—	—	—	D7254	—	—	—	D7272
	30A, 40A, 60A	—	—	—	—	—	—	D7245	—
1/2"	30A, 40A	—	—	—	—	—	D7264	—	—
	30A, 40A, 50A, 60A	D5305	D5314	—	—	D7237	—	—	—
	30A, 60A	—	—	—	—	—	—	D7246	—
	30A, 40A, 60A	—	—	D7228	D7255	—	—	—	—
	30A	—	—	—	—	—	—	—	D7273

Rubber Thickness	▶CHOOSE: Duro.	Rubber Length	Item No.
Commercial Grade, Red 36" Roll			
1/32"	60A	150 ft.	G3407
1/16"	30A, 50A, 60A	100 ft.	G3408
1/8"	50A, 60A	51 ft.	G3410

SBR (Styrene Butadiene Rubber)

E.James & Co. Supplier Diversity

- Meets ASTM D2000 AA standards





Rubber Thickness	Duro.	Rubber Length	Item No.
Black 36" Roll			
1/16"	70A	25 ft.	6ZTX3
	70A	67 ft.	3EEJ9
1/2"	70A	10 ft.	6ZTX4
1/4"	70A	10 ft.	6ZTX5
	70A	18 ft.	3EEK2
1/8"	70A	15 ft.	6ZTX6
	70A	25 ft.	36XT30
	70A	36 ft.	3EEK3
3/16"	70A	10 ft.	6ZTX8
	70A	30 ft.	36XT33
	70A	40 ft.	3EEK5
3/32"	70A	15 ft.	6ZTX9
	70A	75 ft.	3EEK6

Rubber Thickness	Duro.	Rubber Length	Item No.
3/8"	70A	10 ft.	6ZTY1
	70A	30 ft.	3EEK8
1"	70A	30 ft.	3EEK4
Red 36" Roll			
1/16"	70A	25 ft.	6ZTY2
	70A	100 ft.	3EEK9
1/4"	70A	10 ft.	6ZTY3
	70A	40 ft.	3EEL1
1/8"	70A	10 ft.	36XT43
	70A	15 ft.	6ZTY4
	70A	50 ft.	3EEL2
3/16"	70A	10 ft.	6ZTY5
3/32"	70A	15 ft.	6ZTY6

Rubber Thickness	Duro.	2" x 3 ft. Plain Backing Item No.	4" x 3 ft. Plain Backing Item No.	6" x 3 ft. Plain Backing Item No.	12" x 1 ft. Plain Backing Item No.	12" x 2 ft. Plain Backing Item No.	12" x 3 ft. Plain Backing Item No.
Black							
1/16"	70A	1MTX4	1MTY4	1MTZ4	1MTT4	1MTU4	1MTW4
3/32"	70A	1MTX5	1MTY5	1MTZ5	1MTT5	1MTU5	1MTW5
1/8"	70A	1MTX6	1MTY6	1MTZ6	1MTT6	1MTU6	1MTW6
3/16"	70A	1MTX7	1MTY7	1MTZ7	1MTT7	1MTU7	1MTW7
1/4"	70A	1MTX8	1MTY8	1MTZ8	1MTT8	1MTU8	1MTW8
3/8"	70A	1MTX9	1MTY9	1MTZ9	1MTT9	1MTU9	1MTW9
1/2"	70A	1MTY1	1MTZ1	1MUA1	1MTU1	1MTW1	1MTX1
3/4"	70A	1MTY2	1MTZ2	1MUA2	1MTU2	1MTW2	1MTX2
1"	70A	1MTY3	1MTZ3	1MUA3	1MTU3	1MTW3	1MTX3
Red							
1/16"	70A	—	—	—	1MUA4	1MUA9	1MUB5
3/32"	70A	—	—	—	1MUA5	1MUB1	1MUB6
1/8"	70A	—	—	—	1MUA6	1MUB2	1MUB7
3/16"	70A	—	—	—	1MUA7	1MUB3	1MUB8
1/4"	70A	—	—	—	1MUA8	1MUB4	1MUB9

100% Recycled Rubber

E.James & Co. Supplier Diversity

- Temp. range: 0° to 120°F
- Tensile strength: 250 psi
- Durometer: 60A
- Elongation: 115%
- Coarse finish
- Nonadhesive back



Rubber Thickness	Rubber Length	Item No.
Black-Speckled		
12" Width		
1/16"	1 ft.	10U447
1/16"	4 ft.	10U448
1/8"	1 ft.	10U461
1/8"	4 ft.	10U462
1/4"	1 ft.	10U475
1/4"	4 ft.	10U476
5/16"	1 ft.	10U454
5/16"	4 ft.	10U455
3/8"	1 ft.	10U468
3/8"	4 ft.	10U469

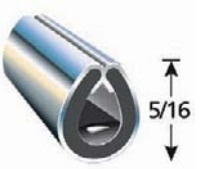
Rubber Thickness	Rubber Length	Item No.
24" Width		
1/16"	2 ft. 6"	10U449
1/16"	4 ft.	10U450
1/8"	2 ft. 6"	10U463
1/8"	4 ft.	10U464
1/4"	2 ft. 6"	10U477
1/4"	4 ft.	10U478
5/16"	2 ft. 6"	10U456
5/16"	4 ft.	10U457
3/8"	2 ft. 6"	10U470
3/8"	4 ft.	10U471

Rubber Thickness	Rubber Length	Item No.
36" Width		
1/16"	3 ft.	10U451
1/8"	3 ft.	10U465
1/4"	3 ft.	10U479
5/16"	3 ft.	10U458
3/8"	3 ft.	10U472

Rubber Thickness	Rubber Length	Item No.
48" Width		
1/16"	4 ft.	10U452
1/16"	10 ft.	10U446
1/8"	4 ft.	10U466
1/8"	10 ft.	10U460
1/4"	4 ft.	10U480
1/4"	10 ft.	10U474
5/16"	4 ft.	10U459
5/16"	10 ft.	10U453
3/8"	4 ft.	10U473
3/8"	10 ft.	10U467


Single Gripping


Dual-Gripping



Edge Guard

Edge Trim and Edge Guard

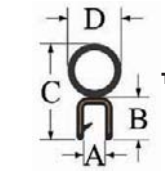
TRIM-LOK.com

Gripping Finger Trim— Flexible vinyl edge trim has a metal core and 1 or 2 gripping fingers to hold trim in place.
- Textured black

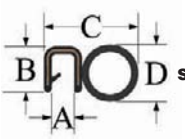
Guard—Preglued, flexible black plastic trim with decorative finish. Great for vending machines, running boards, fender flares, car door edges and furniture.
- Temp. range: -20° to 150°F
- Hardness: 97
- Durometer: Shore A

Fits Edge	Leg Length	Overall Width	25 ft. Item No.	100 ft. Item No.	250 ft. Item No.
Single Gripping Finger					
0.0625"	.375"	0.2325"	**10H753**	**10H757**	**10H761**
0.125"	.4375"	0.295"	**10H766**	**10H770**	**10H774**
	.5625"	0.295"	**10C930**	**10C936**	**10C942**
0.1875"	.5625"	0.3575"	**10C932**	**10C938**	**10C944**
0.250"	.5625"	0.42"	**10C933**	**10C939**	**10C945**
0.500"	1"	0.67"	**10C964**	**10C967**	—
Dual Gripping Finger					
0.0312"	.4375"	0.20125"	**10H775**	**10H779**	**10H783**
0.0625"	.4375"	0.2325"	**10H776**	**10H780**	**10H784**
	.5625"	0.2325"	**10C946**	**10C952**	**10C958**
0.09375"	.4375"	0.26375"	**10H777**	**10H781**	—
0.125"	.4375"	0.295"	**10H778**	**10H782**	**10H786**
	.5625"	0.295"	**10C948**	**10C954**	**10C960**
0.1563"	.5625"	0.3263"	**10C949**	**10C955**	—
0.1875"	.5312"	0.3575"	**10C950**	**10C956**	—
0.250"	.5"	0.42"	**10C951**	**10C957**	**10C963**

Overall Height	25 ft. Item No.	50 ft. Item No.	250 ft. Item No.	100 ft. Item No.
Edge Guard				
5/16"	**44M839**	**44M840**	**44M841**	—
7/16"	**44M842**	—	**44M844**	**44M843**



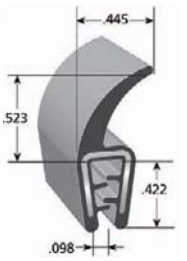
Top Bulb w/Vinyl Grip



Side Bulb w/Vinyl Grip



No. 44M851



No. 44M857

Edge Trim Seals

TRIM-LOK.com

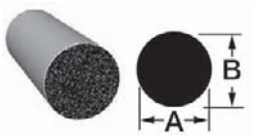
- Temp. range: -20° to 150°F
- Vinyl meets FMVSS 302 for flammability
- Textured black

Trim with EPDM closed-cell sponge rubber bulb are weather resistant. Nonmarking material. For indoor and outdoor use.

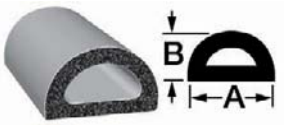
Flap and Trim Seals—EPDM dense rubber base with closed-cell EPDM rubber bulb is ideal for sealing boat hatches, RV compartment doors, tool boxes and tonneau covers.
- Temp. range: -40° to 212°F

Fits Edge (A)	Leg Length (B)	Overall Width (C)	Bulb Dia. (D)	25 Ft. Item No.	100 Ft. Item No.	250 Ft. Item No.
Top Bulb w/Vinyl Grip						
0.0625"	.375"	0.2"	0.2"	**10C978**	**10C986**	**10C994**
	.5625"	0.375"	0.375"	**10D004**	**10D016**	—
0.125"	.5625"	0.625"	0.625"	**10D078**	**10D090**	—
	.5625"	0.75"	0.75"	**10D115**	**10D127**	—
	.5625"	0.375"	0.375"	**10D006**	**10D018**	**10D030**
	.5625"	0.437"	0.437"	**10D042**	**10D054**	**10D066**
0.250"	.5"	0.375"	0.375"	**10D009**	**10D021**	—
	.5"	0.625"	0.625"	**10D081**	**10D093**	—
	.5"	0.75"	0.75"	**10D118**	**10D130**	—
Side Bulb w/Vinyl Grip						
0.0625"	.5625"	0.9825"	0.75"	**10D107**	**10D119**	—
0.125"	.5625"	0.732"	0.437"	**10D036**	**10D048**	**10D060**
	.5625"	0.92"	0.625"	**10D072**	**10D084**	**10D096**
	.5625"	1.045"	0.75"	**10D109**	**10D121**	**10D133**
	.5625"	0.67"	0.375"	**10C999**	**10D012**	—
0.1875"	.5312"	1.1075"	0.75"	**10D111**	**10D123**	**10D135**
	.5312"	0.7325"	0.375"	**10D002**	**10D014**	—
0.250"	.5"	1.045"	0.625"	**10D075**	**10D087**	—
	.5"	1.17"	0.75"	**10D112**	**10D124**	—
	.5"	0.795"	0.375"	**10D003**	**10D015**	—

Fits Edge	Overall Width	Overall Height	Leg Length	25 ft. Item No.	100 ft. Item No.
Flap					
0.190"	—	1.369"	0.444"	**44M851**	**44M852**
0.98"	0.445"	0.945"	0.422"	**44M857**	**44M858**
Trim					
0.125"	0.433"	0.847"	0.426"	**44M848**	**44M849**
0.158"	0.641"	0.433"	0.433"	**44M854**	**44M855**



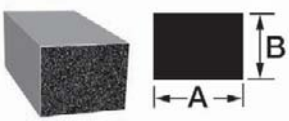
Cord Stock



D-Shape



D-Shape Thick Wall



Rectangle Foam




General Hand Tool Kit

TRIM-LOK.com

Cord Stock and Foam Rubber Seals

- Temp. range: -20° to 150°F
- Black

Cord Stock—Water- and weather-resistant EPDM closed-cell sponge rubber seals are softer than rubber bulbs. Create an easy-to-close seal against dust, noise, and vibration. Solid round cord. Cut to length with scissors or knife.

Foam Rubber Seals—Water-resistant EPDM closed-cell sponge rubber seals are weather resistant. Create an easy-to-close seal against dust, noise, and vibration. Cut to length with scissors or knife. High-strength foam acrylic adhesive creates an airtight seal between the rubber and substrate and has low initial tack for easy repositioning. General-purpose pressure sensitive adhesive is ideal for light-duty applications.

Overall Width (A)	Overall Height (B)	Core Dia (C)	Length	Item No.
D-Shaped Thick Foam Acrylic				
.5"	.5"	.188"	25 ft.	**10D146**
.75"	.75"	.375"	25 ft.	**10G544**
Pressure Sensitive				
0.75"	0.75"	.375"	25 ft.	**10G541**

Overall Width (A)	Overall Height (B)	Length	Item No.
Cord Stock			
.25"	.25"	25 ft.	**10G517**
.38"	.38"	25 ft.	**10G520**
.5"	.5"	25 ft.	**10G523**
D-Shaped Foam Acrylic			
.375"	.218"	25 ft.	**10G538**
.468"	.312"	25 ft.	**10D170**
.625"	.375"	25 ft.	**10D164**
.75"	.375"	25 ft.	**10G471**
0.75"	.563"	25 ft.	**10G483**
Pressure Sensitive			
.375"	.218"	25 ft.	**10G535**
.468"	.312"	25 ft.	**10D167**
.625"	.375"	25 ft.	**10D161**
.75"	.50"	25 ft.	**10G474**
.75"	.563"	25 ft.	**10G480**
Rectangular Foam Acrylic			
.5"	.25"	25 ft.	**10G495**
.75"	.50"	25 ft.	**10G514**
Pressure Sensitive			
.75"	.50"	25 ft.	**10G511**
0.75"	.25"	25 ft.	**10G505**

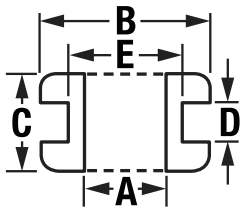
Window Locking Gaskets

- Temp. range: -20° to 158°F
- Hardness: Shore A70
- Black

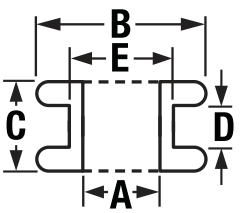
EPDM dense rubber locking gaskets secure gaps between glass windows and metal. Locking gasket key fits all double-piece locking gaskets. Maintenance Tool Kit No. 10G571 helps ensure an easy, efficient locking gasket installation.

Overall Height	Fits Edge	Fits Glass	Min. Clearance Between Glass and Edge	Length	Item No.
Window Locking Gasket					
Single Piece					
.9"	0.09 to 0.14"	3/16" - 1/4"	.25"	25 ft.	**10G559**
1"	0.075 to 0.140"	3/16" - 1/4"	.145"	25 ft.	**10G557**
1.07"	0.035 to 0.067"	3/16" - 1/4"	.3125"	25 ft.	**10G549**
Double Piece (requires key)					
1.1"	0.093 to 0.14"	3/16" - 1/4"	.23"	25 ft.	**10G547**
EPDM Locking Gasket Key					
.320"	—	—	—	25 Ft.	**10G561**

Description	Item No.
Maintenance Tool Kit	
2-pc. Uninsulated Gasket Splay Bar and Locking Key Puller	**10G571**

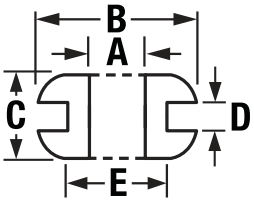


Style 1



Style 3





Style 5

GA GRAINGER APPROVED

Rubber Grommets

- General purpose grade

Protect against abrasion damage when wires, tubes, and other objects are inserted through holes in metal, plastic, or other hard materials.

Inside Dia. (A)	Outside Dia. (B)	Overall Thickness (C)	Panel Thickness (D)	Panel Hole Dia. (E)	Item No.	Pkg. Qty.
Style 1						
General Purpose EPDM - Meets ASTM D2000 CA						
1¼"	2"	⅝"	3/16"	1½"	**408M89**	25
General Purpose SBR - Meets ASTM D2000 2AA606						
3/16"	13/32"	5/16"	3/32"	9/32"	**3MPN7**	100
9/32"	9/16"	¼"	1/16"	⅜"	**3MPK5**	100
5/16"	11/16"	7/16"	¼"	½"	**3MPP7**	100
⅜"	⅝"	¼"	1/16"	½"	**3MPL3**	50
⅜"	⅞"	⅜"	⅛"	⅝"	**3MPK7**	100
½"	13/16"	9/32"	1/16"	⅝"	**3MPL5**	50
½"	1"	9/32"	3/32"	¾"	**3MPK8**	100
9/16"	1"	5/16"	1/16"	¾"	**3MPR4**	100
⅝"	1⅛"	5/16"	1/16"	⅞"	**3MPR5**	100
⅝"	1⅛"	⅜"	⅛"	⅞"	**3MPR6**	100
¾"	1⅛"	5/16"	3/32"	15/16"	**3MPL8**	50
¾"	1½"	5/16"	3/32"	1⅛"	**3MPT1**	25
⅞"	1⅝"	7/16"	1/16"	1¼"	**3MPL1**	25
1"	1¾"	⅜"	3/32"	1⅜"	**3MPT2**	25
1"	1¾"	13/32"	7/64"	1⅜"	**3MPT3**	25
1¼"	1⅞"	11/32"	1/16"	1½"	**3MPT4**	25
1¼"	1⅞"	⅜"	3/32"	1½"	**3MPT5**	25
1½"	2⅜"	⅜"	3/32"	2"	**3MPT7**	25
General Purpose SBR - Meets ASTM D2000 AA,BA						
¾"	1¼"	19/64"	1/16"	1"	**408M88**	25
Style 3						
General Purpose SBR - Meets ASTM D2000 2AA606						
¼"	9/16"	5/16"	1/16"	7/16"	**3MPT9**	20
5/16"	¾"	⅜"	⅛"	½"	**3MPU1**	20
⅜"	15/16"	17/32"	5/32"	⅝"	**3MPK9**	100
13/32"	13/16"	5/16"	1/16"	9/16"	**3MPU2**	20
Style 5						
General Purpose SBR - Meets ASTM D2000 2AA606						
3/16"	⅝"	7/32"	1/16"	5/16"	**3MPU5**	20
⅜"	1"	13/32"	9/64"	11/16"	**3MPU6**	20

Specifications: AN 931 No.	MS 35489 No.	Inside Dia. (A)	Outside Dia. (B)	Overall Thickness (C)	Panel Thickness (D)	Panel Hole Dia. (E)	Item No.	Pkg. Qty.
Style 1								
Oil Resistant Buna-N - Meets ASTM D2000 2BG506								
3-5	4	3/16"	7/16"	3/16"	1/16"	5/16"	**3MRG4**	50
A3-5	33	3/16"	7/16"	¼"	⅛"	5/16"	**3MRG5**	50
A5-12	39	5/16"	1"	⅜"	⅛"	¾"	**3MRJ3**	25
B6-10	69	⅜"	⅞"	7/16"	3/16"	⅝"	**3MRK2**	50
A10-14	46	⅝"	1⅛"	⅜"	⅛"	⅞"	**3MRL4**	10
B10-14	75	⅝"	1⅛"	7/16"	3/16"	⅞"	**3MRL5**	10
12-17	20	¾"	1⅜"	⅜"	1/16"	1 1/16"	**3MRN2**	25
A12-17	49	¾"	1⅜"	7/16"	⅛"	1 1/16"	**3MRN3**	25
C12-17	107	¾"	1⅜"	9/16"	¼"	1 1/16"	**3MRN4**	25
12-20	135	¾"	1⅝"	¼"	1/16"	1¼"	**3MRN5**	10
A14-20	51	⅞"	1⅝"	½"	⅛"	1¼"	**3MRN9**	25
B14-20	80	⅞"	1⅝"	9/16"	3/16"	1¼"	**3MRP1**	25
16-22	23	1"	1¾"	7/16"	1/16"	1⅜"	**3MRP2**	10
A16-22	52	1"	1¾"	½"	⅛"	1⅜"	**3MRP3**	10
B16-22	81	1"	1¾"	9/16"	3/16"	1⅜"	**3MPN4**	25
24-28	27	1½"	2⅛"	7/16"	1/16"	1¾"	**3MRP4**	25
A24-28	56	1½"	2⅛"	½"	⅛"	1¾"	**3MRP5**	25
B24-28	85	1½"	2⅛"	9/16"	3/16"	1¾"	**3MPN5**	25
C24-28	114	1½"	2⅛"	⅝"	¼"	1¾"	**3MPN6**	25



Style A | Style B | Style C | Style D



Style E | Style F | Style G | Style I

Rubber Edging

E.James & Co.

Material	Groove Width	Groove Depth	Overall Width	Overall Height	L	Temp. Range	Color	Std.	Item No.
Style A									
SBR	3/16"	7/16"	5/16"	½"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG1**
	¼"	5/16"	⅜"	⅜"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG2**
Style B									
SBR	1/32"	5/32"	7/64"	7/32"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG5**
	1/16"	11/32"	7/32"	7/16"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG6**
	3/32"	21/64"	3/16"	⅜"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG7**
Style C									
SBR	⅛"	¼"	¼"	⅝"	100 ft.	-25 to 230F	Black	ASTM D2000 AA	**3HCG8**
Neoprene	1/32"	9/32"	9/32"	⅜"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCG9**
	⅛"	23/32"	9/16"	1"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH1**
	¼"	½"	½"	⅝"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH2**
Style D									
Neoprene	1/16"	¼"	3/16"	5/16"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH5**
	3/16"	⅜"	⅜"	9/16"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH6**
Style E									
Neoprene	1/16"	5/16"	⅛"	⅜"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH8**
	⅛"	¼"	¼"	5/16"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCH9**
Style F									
Neoprene	1/32"	¼"	13/64"	⅜"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ2**
	1/16"	⅜"	¼"	½"	10 ft.	-40 to 160°F	Black	ASTM D2000 BC	**38EH43**
	1/16"	⅜"	¼"	½"	25 ft.	-40 to 160°F	Black	ASTM D2000 BC	**38EH44**
	1/16"	⅜"	¼"	½"	50 ft.	-40 to 160°F	Black	ASTM D2000 BC	**38EH45**
	1/16"	⅜"	¼"	½"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ3**
	⅛"	15/32"	23/64"	5/8"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ4**
	3/16"	9/16"	15/32"	¾"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ5**
	¼"	19/32"	37/64"	13/16"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ6**
	⅜"	25/32"	43/64"	1"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCJ8**
Silicone	1/16"	⅜"	¼"	½"	100 ft.	-90 to 450F	Red	ASTM D2000 GE	**3HCJ9**
	⅛"	15/32"	23/64"	⅝"	100 ft.	-90 to 450F	Red	ASTM D2000 GE	**3HCK1**
Style G									
Neoprene	1/32"	5/32"	11/64"	¼"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCK3**
	1/16"	7/32"	15/64"	5/16"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCK4**
	⅛"	9/32"	19/64"	⅜"	100 ft.	-40 to 160F	Black	ASTM D2000 BC	**3HCK5**
Style I									
EPDM	¼"	⅝"	¾"	15/16"	100 ft.	-50 to 310F	Black	ASTM D2000 BA	**3HCL2**
	⅜"	⅝"	¾"	15/16"	100 ft.	-50 to 310F	Black	ASTM D2000 BA	**3HCL3**

Plastic

DEFINITIONS

Compression Strength—The maximum stress a material can sustain under crush loading.

Flexural Strength—The ability to resist deformation under load. It is also referred to as bend strength or fracture strength.

Impact Strength—The amount of impact a material can withstand without cracking.

Continuous Use Temperature (CUT)—The maximum long-term service temperature (approximately 10 yr.) that a material can withstand, and retain at least 59% of its initial physical properties.

Heat Deflection Temperature (HDT) (ASTM D648)—The temperature at which a center-loaded bar deflects 0.010" under a stress of 66 or 264 psi.

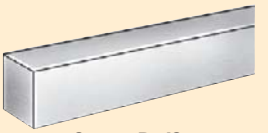
Tensile Strength—The amount of pulling force a material can withstand without breaking.



SheetSheet



Round Rod



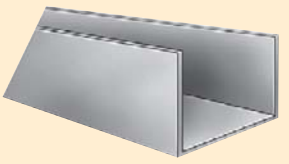
Square RodSquare Rod



Hexagonal Rod



Film



U-Channel Stock



90°Angle Stock Angle



Round TubeRound Tube Stock

PLASTIC COMPARISON CHART

Material	Page No.†	Material Family*	CUT/HDT	Tensile Strength (psi)	Flexural Strength (psi)	Compression Strength (psi)	Impact Strength (Lbs.)	UV Tolerant	Opacity	Corosion/ Chemical Resistance	Machinability	Water Absorption	Wear Factor
Standard Grade													
ABS - Haircell	2211	A	158/221	5,400	9,500	N/A	7.3	No	—	Good	Good	Good	Good
Acrylic - Cast	2211	A	180	10,500	16,000	18,000	0.3	Yes	Translucent	Poor	Poor	Good	Poor
Acrylic - Extruded	2211	A	170	10,500	15,000	16,000	0.3	Yes	Translucent	Poor	Poor	Good	Poor
HIPS	G.com	A	180	3,000	6,900	N/A	2	No	Opaque	Poor	Fair	Good	Poor
PETG	2211	A	153	7,700	11,200	8,000	1.7	No	Translucent	Poor	Poor	Good	Poor
Polycarbonate (Lexan®)	2209	A	180	9,000	13,500	12,500	12.0	Yes	Translucent	Poor	Fair	Good	Fair
Polycarbonate (Machine Grade)	G.com	A	200	10,500	13,000	11,500	12.0	Yes	Translucent	Poor	Fair/Good	Good	Fair
Polycarbonate - Bullet-Resistant (Lexgard®)	G.com	A	120	N/A	N/A	N/A	N/A	Yes	Translucent	Poor	Fair	Good	Fair
Polycarbonate Film (Lexan®)	2209	A	270	9,000	N/A	N/A	N/A	Yes	Both	Poor	Fair	Good	Fair
Polyester Film	G.com	C	302	30,000	N/A	N/A	N/A	No	Both	Fair	Fair	Good	Fair
Polyethylene - HDPE (Standard)	2210	C	194/266	4,000	4,600	4,600	1.3	No	Opaque	Good	Good	Excellent	Good
Polyethylene - HDPE (Cutting Board)	2210	C	194/266	4,400	220,000	220,000	2.4	No	—	Good	Good	Excellent	Good
Polyethylene - LDPE	2210	C	160/239	1,400	N/A	N/A	No Break	No	—	Good	Good	Excellent	Good
Polypropylene	2212	C	210/320	3,900	N/A	N/A	No Break	No	Opaque	Excellent	Good	Excellent	Good
PVC Type I	2209	A	140/360	7,300	12,800	9,600	0.4	No	Opaque	Good/Excellent	Excellent	Good/Excellent	Poor/Good
Engineering Grade													
Acetal Copolymer	G.com	C	180/220	9,500	12,000	15,000	1	No	Opaque	Excellent	Excellent	Good	Good
Acetal Homopolymer (Delrin® 150 - Food Contact)	2214	C	180/250	11,000	13,000	16,000	1	No	Opaque	Excellent	Excellent	Good	Good
Acetal Homopolymer (Delrin® AF Blend)	2214	C	180/240	8,000	12,000	16,000	0.7	No	Opaque	Good	Excellent	Good	Good
Nylon Type 6 - Cast (Food Contact Grade)	G.com	C	200/200	12,000	15,000	13,500	1.5	No	Opaque	Good	Excellent	Fair	Good
Nylon Type 6 - Cast (Heat Stabilized)	G.com	C	260/200	9,900	16,000	15,000	0.4	No	Opaque	Good	Excellent	Fair	Good
Nylon Type 6 - Cast (Lubricated Oil-Filled)	G.com	C	220/200	9,900	15,000	13,500	1	No	Opaque	Good	Good	Fair	Good
Nylon Type 6 - Cast (Molybdenum Disulphide-Filled)	G.com	C	200/200	12,000	16,000	14,000	0.5	No	Opaque	Good	Excellent	Poor	Good
Nylon Type 6 - Cast (Nylatron® NSM Solid Lubricant-Filled)	G.com	C	200/200	11,000	16,000	14,000	0.5	No	Opaque	Good	Excellent	Fair	Excellent
Nylon 6/6 - Extruded (Food Contact Grade)	G.com	C	210/200	11,500	15,000	12,500	0.6	No	Opaque	Good	Excellent	Fair	Good
Nylon 6/6 - Extruded (Molybdenum Disulphide-Filled)	G.com	C	210/200	12,500	17,000	16,000	0.5	No	Opaque	Good	Excellent	Fair	Good
PET-P (Ertalyte®)	G.com	C	210/240	12,400	18,000	15,000	0.5	No	Opaque	Good	Good	Excellent	Good
PET-P (Ertalyte® TX)	G.com	C	210/180	10,500	14,000	15,250	0.4	No	Opaque	Good	Good	Excellent	Excellent
Polyethylene - UHMW	2213	C	180/116	5,800	3,500	3,000	No Break	No	Opaque	Excellent	Good	Excellent	Fair
Polyethylene - UHMW (Recycled)	G.com	C	180/116	4,500	3,900	3,300	No Break	No	Opaque	Good	Good	Excellent	Good
Polyethylene - UHMW (TIVAR H.O.T.)	2212	C	275/275	5,800	3,500	3,000	No Break	No	Opaque	Good	Good	Excellent	Good
Polyethylene - UHMW (TIVAR 88)	2212	C	180/116	5,600	3,000	3,000	No Break	No	Opaque	Good	Good	Excellent	Good
Polyethylene - UHMW (TIVAR Antistatic)	2212	C	180/116	5,800	3,800	3,300	No Break	No	Opaque	Good	Good	Excellent	Good
Polyethylene - UHMW (TIVAR Dryslide)	2212	C	180/116	4,800	3,100	2,900	No Break	No	Opaque	Good	Good	Excellent	Good
PTFE	G.com	C	500/220	3,500	No Break	3,500	3	No	—	Excellent	Excellent	Excellent	Good
High-Performance Grade													
PEEK	G.com	C	480/320	16,000	25,000	20,000	1	No	Opaque	Excellent	Fair	Good	Fair
Phenolic CE	2214	C	257/257	8,900	17,500	34,000	1.5	No	—	Good	Good	Good	Good
Phenolic LE	2214	C	257/257	9,000	22,000	36,000	1.35	No	—	Good	Good	Good	Good
Polyamide-imide - Extruded Bearing Grade (Torlon®)	G.com	I	500/534	20,000	23,000	22,000	0.8	No	Opaque	Good	Fair	Fair	Excellent
Polyamide-imide - Extruded Electrical Grade (Torlon®)	G.com	I	500/532	20,000	24,000	24,000	2	No	Opaque	Good	Fair	Fair	Good
Polyetherimide (Ultem®)	G.com	A	340/400	16,500	20,000	22,000	0.5	No	Translucent	Fair	Good	Good	Poor
Polyphenylene Sulfide - Extruded (Techtron® PPS)	G.com	C	425/250	13,500	21,000	21,500	0.6	No	Opaque	Excellent	Good	Excellent	Poor

**** A = amorphous (best for bondability, thermoformability, and transparency); C = crystalline (usually featuring good chemical and wear-resistance); I = imidized (ideal for extreme service).***
† G.com = available on Grainger.com®.

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders



Polymershapes

Lexan® Polycarbonate General Purpose Sheets

Thickness	Thickness Tolerance	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
General Purpose								
Clear								
0.060"	±10%	1ETK8	1ETL6	1ETN4	1ETP2	1ETP9	1ETR7	1ETT5
0.093"	±10%	1ETK9	1ETL7	1ETN5	1ETP3	1ETR1	1ETR8	1ETT6
0.118"	±10%	1ETL1	1ETL8	1ETN6	1ETP4	1ETR2	1ETR9	1ETT7
0.118"	±10%	—	—	—	—	—	—	5JET6 *
0.177"	±10%	1ETL2	1ETL9	1ETN7	1ETP5	1ETR3	1ETT1	1ETT8
0.177"	±10%	—	—	—	—	—	—	5JET7 *
0.220"	±10%	1NLK3	1NLK4	1NLK5	1NLK6	1NLK7	1NLK8	1NLK9
0.236"	±10%	1ETL3	1ETN1	1ETN8	1ETP6	1ETR4	1ETT2	1ETT9
0.236"	±10%	—	—	—	—	—	—	5JET8 *
0.375"	±10%	1ETL4	1ETN2	1ETN9	1ETP7	1ETR5	1ETT3	1ETU1
0.500"	±10%	1ETL5	1ETN3	1ETP1	1ETP8	1ETR6	1ETT4	1ETU2
Bronze								
0.118"	±10%	—	—	—	—	1ETW4	1ETW7	1ETX1
0.177"	±10%	—	—	—	—	1ETW5	1ETW8	1ETX2
0.236"	±10%	—	—	—	—	1ETW6	1ETW9	1ETX3
Gray								
0.118"	±10%	—	—	—	—	1ETX4	1ETX7	1ETY1
0.177"	±10%	—	—	—	—	1ETX5	1ETX8	1ETY2
0.236"	±10%	—	—	—	—	1ETX6	1ETX9	1ETY3

** Pkg. of 5.*

Thickness	Thickness Tolerance	12" x 12" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 8 ft. Item No.
Abrasion Resistant					
Clear					
0.118"	±10%	1ETY4	1ETY9	1ETZ5	1NLG7
0.177"	±10%	1ETY5	1ETZ1	1ETZ6	1NLG8
0.236"	±10%	1ETY6	1ETZ2	1NLG4	1NLG9
0.375"	±10%	1ETY7	1ETZ3	1NLG5	1NLH1
0.500"	±10%	1ETY8	1ETZ4	1NLG6	1NLH2
Bronze					
0.236"	±10%	—	—	1NLH5	1NLJ2
Gray					
0.118"	±10%	—	—	1NLJ3	1NLJ9
0.177"	±10%	—	—	1NLJ4	1NLK1
0.236"	±10%	—	—	1NLJ5	1NLK2

Thickness	Thickness Tolerance	24" x 24" Item No.	24" x 48" Item No.
Standard Grade			
Clear			
0.005"	±10%	2NJG7	—
0.010"	±10%	2NJG8	2NJH6
0.015"	±10%	2NJG9	2NJH7
0.020"	±10%	2NJH1	2NJH8
0.030"	±10%	2NJH2	2NJH9
0.040"	±10%	2NJH3	2NJJ1
0.060"	±10%	2NJH4	2NJJ2

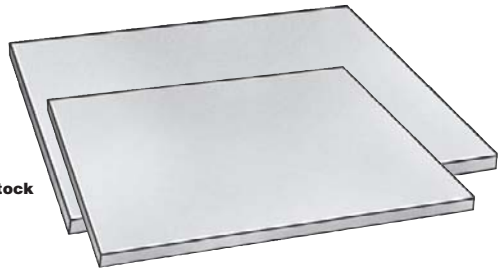
Thickness	Thickness Tolerance	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Grade XL10				
Clear				
0.118"	±10%	3GYA4	3GYA6	3GYA8
0.236"	±10%	3GYA5	3GYA7	3GYA9
Polycarbonate				
0.125"	±0.013"	3GYC1	—	3GYC2

Polymershapes

PVC Type I (Polyvinyl Chloride)

- Continuous use temp.: 140°F
- Heat deflection temp.: 116°F
- Impact strength: 0.4 lb. (sheets); 0.9 lb. (rods)
- Sheet stock meets standard ASTM D1784

Rated as self-extinguishing, PVC Type I has exceptional chemical resistance, good insulation properties, low moisture absorption, and high mechanical and tensile strengths. Can be easily cemented and welded. For use in structural building materials, plumbing applications, electrical insulation, signage, and modeling.



Sheet Stock

Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Sheet Stock, Gray							
0.063"	1YYF9	1YYH2	1YYJ4	1YYK6	1YYL8	1YYP1	1YYR3
0.125"	1YYG1	1YYH3	1YYJ5	1YYK7	1YYL9	1YYP2	1YYR4
0.188"	1YYG2	1YYH4	1YYJ6	1YYK8	1YYN1	1YYP3	1YYR5
0.250"	1YYG3	1YYH5	1YYJ7	1YYK9	1YYN2	1YYP4	1YYR6
0.375"	1YYG4	1YYH6	1YYJ8	1YYL1	1YYN3	1YYP5	1YYR7
0.500"	1YYG5	1YYH7	1YYJ9	1YYL2	1YYN4	1YYP6	1YYR8
0.750"	1YYG6	1YYH8	1YYK1	1YYL3	1YYN5	1YYP7	—
1.000"	1YYG7	1YYH9	—	1YYL4	1YYN6	1YYP8	—
1.500"	1YYG8	—	1YYK3	—	1YYN7	1YYP9	—



Rod Stock

Dia.	4 FT LENGTH Item No.	8 FT LENGTH Item No.
Rod Stock, Gray		
¼"	22JM49	22JM50
⅜"	22JM55	22JM56
½"	22JM47	22JM48
⅝"	22JM59	22JM60
¾"	22JM53	22JM54
⅞"	22JM61	22JM62
1"	22JM45	22JM46
1⅛"	22JM43	22JM44
1¼"	22JM41	22JM42
1½"	22JM39	22JM40
2"	22JM51	22JM52



Angle Stock

Leg Length	Thickness	60" Item No.	120" Item No.
90° Angle Stock, Dark Gray			
1½" x 1½"	0.187"	1NTY8	—
	0.250"	1NTZ1	6MDL7
1¼" x 1¼"	0.187"	1NTY4	—
¾" x 1½"	0.080"	1NTY6	6MDL3
1" x 1"	0.125"	1NTY2	6MDL5
2" x 2"	0.187"	1NTZ3	6MDL6
	0.250"	1UNJ1	6MDL8



U-Channel Stock

Outside Leg Length	Outside Base Width	Wall Thickness	L	Item No.
U Channel Stock, Dark Gray				
19/32"	0.510"	0.060"	60"	1UNJ3
1 21/32"	1.140"	0.080"	60"	1UNJ7
1 15/32"	2.510"	0.080"	60"	1UNJ9
25/32"	3.540"	0.100"	60"	1UNK1

Thickness	Color	48" x 8 ft. Item No.	48" x 48" Item No.
Standard Grade Sheet Stock			
0.125"	White	44N585	44N586
0.125"	Black	44N587	44N588



Rod Stock



Sheet Stock

Polymershapes

HDPE (High-Density Polyethylene)—Sheets and Round Rods

- Max. service temp.: 180°F
- Heat deflection temp.: 176°F

Easy-to-weld material has good insulating properties, good electrical/dielectric properties, and retains its toughness at low temperatures. Low steam permeability.

CUTTING BOARD SHEETS

- Tensile strength: 4000 psi
- Impact strength: 1.3 lb.

Specially formulated acid-resistant surface doesn't absorb moisture, odor, or bacteria, and won't dull knives. Resists chipping, peeling, cracking, and warping. Dishwasher safe. Meet FDA 21 CFR 177.52, ASTM D1822, USDA, and Canada AG compliant.

STANDARD SHEETS

- Tensile strength: 4600 psi
- Impact strength: 1.3 lb.

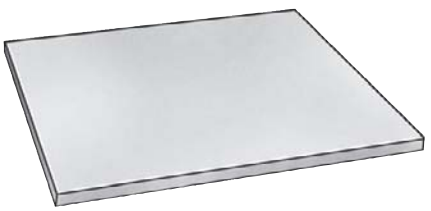
For use in pumps, valves, and in the medical and sewage industries. Food contact grade-off white is FDA and USDA compliant.

Thickness	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Cutting Board Sheets—Food Grade Off-White						
0.250"	3HML4	3HML8	3HMN3	3HMN7	3HMP2	3HMP6
0.500"	3HML5	3HML9	3HMN4	3HMN8	3HMP3	3HMP7
0.750"	3HML6	3HMN1	3HMN5	3HMN9	3HMP4	3HMP8
1.000"	3HML7	3HMN2	3HMN6	3HMP1	3HMP5	3HMP9

Plastic Thickness	▶CHOOSE: Color	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Cutting Board Sheets—Food Contact Grade							
0.500"	Blue, Green, Off-White, Red, Yellow	H7044	—	H7042	H7045	—	H7047
0.500"	Blue, Green, Red, Tan, Yellow	—	H7043	—	—	—	—
0.500"	Blue, Red, Tan, Yellow	—	—	—	—	H7046	—

Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 8 ft. Item No.
Standard Sheets - Black						
0.063"	1ZAU5	1ZAV8	1ZAX2	1ZAY5	1ZAZ8	1ZBB2
0.125"	1ZAU6	1ZAV9	1ZAX3	1ZAY6	1ZAZ9	1ZBB3
0.188"	1ZAU7	1ZAW1	1ZAX4	1ZAY7	1ZBA1	1ZBB4
0.250"	1ZAU8	1ZAW2	1ZAX5	1ZAY8	1ZBA2	1ZBB5
0.375"	1ZAU9	1ZAW3	1ZAX6	1ZAY9	1ZBA3	1ZBB6
0.500"	1ZAV1	1ZAW4	1ZAX7	1ZAZ1	1ZBA4	1ZBB7
0.750"	1ZAV2	1ZAW5	1ZAX8	1ZAZ2	1ZBA5	1ZBB8
1.000"	1ZAV3	1ZAW6	—	—	1ZBA6	1ZBB9
Standard Sheets—Food Contact Grade - Off-White						
0.063"	1ZAG5	1ZAH8	1ZAK2	1ZAL5	1ZAN8	1ZAT2
0.125"	1ZAG6	1ZAH9	1ZAK3	1ZAL6	1ZAN9	1ZAT3
0.188"	1ZAG7	1ZAJ1	1ZAK4	1ZAL7	1ZAR1	1ZAT4
0.250"	1ZAG8	1ZAJ2	1ZAK5	1ZAL8	1ZAR2	1ZAT5
0.375"	1ZAG9	1ZAJ3	1ZAK6	1ZAL9	1ZAR3	1ZAT6
0.500"	1ZAH1	1ZAJ4	1ZAK7	1ZAN1	1ZAR4	1ZAT7
0.750"	1ZAH2	1ZAJ5	1ZAK8	1ZAN2	1ZAR5	1ZAT8
1.000"	1ZAH3	1ZAJ6	1ZAK9	1ZAN3	1ZAR6	1ZAT9
1.250"	1ZAH4	1ZAJ7	1ZAL1	1ZAN4	1ZAR7	1ZAU1
1.500"	1ZAH5	1ZAJ8	1ZAL2	1ZAN5	1ZAR8	—
1.750"	1ZAH6	—	—	—	1ZAR9	—
2.000"	1ZAH7	1ZAK1	—	1ZAN7	1ZAT1	—

Dia.	48" LENGTH Item No.	96" LENGTH Item No.
Rod Stock-Food Contact Grade - Off White		
¼"	22JL42	22JL43
⅜"	22JL46	22JL47
½"	22JL40	22JL41
⅝"	22JL48	22JL49
¾"	22JL44	22JL45
1"	22JL38	22JL39
1¼"	22JL52	22JL53
1½"	22JL50	22JL51



Polymershapes

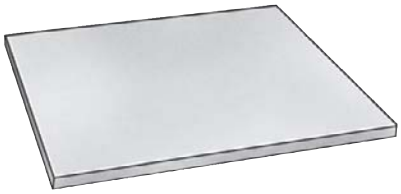
LDPE (Low-Density Polyethylene) Sheets

- Tensile strength: 1400 psi
- Continuous use temp.: 160°F
- Heat deflection temp.: 116°F

Extremely flexible low-density polyethylene is easy-to-clean, lightweight, and doesn't absorb moisture. Used for fabricated parts in which chemical and corrosion resistance is required. Can also be used for impact pads and thermoforming applications.

Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Sheets - Off-White							
0.063"	1YZU4	1YZV6	1YZW8	1YZY1	1YZZ3	1ZAA5	1ZAB7
0.125"	1YZU5	1YZV7	1YZW9	1YZY2	1YZZ4	1ZAA6	1ZAB8
0.188"	1YZU6	1YZV8	1YZX1	1YZY3	1YZZ5	—	1ZAB9
0.250"	1YZU7	1YZV9	1YZX2	1YZY4	1YZZ6	1ZAA8	1ZAC1
0.375"	1YZU8	1YZW1	1YZX3	1YZY5	1YZZ7	—	1ZAC2
0.500"	1YZU9	1YZW2	1YZX4	1YZY6	1YZZ8	1ZAB1	1ZAC3
1.000"	1YZV2	1YZW4	1YZX6	1YZY8	1ZAA1	—	1ZAC5

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders



Polymershapes

Cast-Acrylic Food Contact Grade Sheets

- Thickness Tolerance: ±10%
- Width/Length: ±0.25"
- Tensile strength: 10,500 psi
- Continuous use temp.: 180°F

Provide the highest chemical-resistance of any acrylic sheet. Superior weatherability and ease of fabrication.

Plastic Thickness	12" x 12" Item No.	12" x 24" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Standard Sheets - Clear						
0.118"	1UNN5	1UNP7	1UNR9	1UNU2	1UNV4	1UNW6
0.177"	1UNN6	1UNP8	1UNT1	1UNU3	1UNV5	1UNW7
0.236"	1UNN7	1UNP9	1UNT2	1UNU4	1UNV6	1UNW8
0.350"	1UNN8	1UNR1	1UNT3	1UNU5	1UNV7	1UNW9
0.472"	1UNN9	1UNR2	1UNT4	1UNU6	1UNV8	1UNX1
0.709"	1UNP1	1UNR3	—	1UNU7	—	—
0.945"	1UNP2	1UNR4	1UNT6	1UNU8	—	—
1.250"	1UNP3	—	—	1UNU9	—	—
1.500"	1UNP4	—	—	—	—	—
3.000"	1UNP6	1UNR8	1UNU1	—	—	—
Abrasion Resistant Sheets - Clear						
0.118"	1UNX8	—	1UNY2	—	—	1UNZ2
0.177"	1UNX9	—	1UNY3	—	1UNY9	1UNZ3
0.236"	1UNY1	—	1UNY4	1UNY7	1UNZ1	—



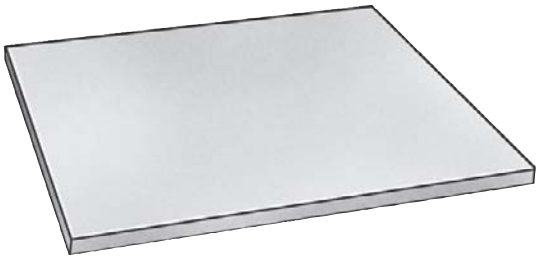
Polymershapes

Extruded Acrylic Sheets

- Tensile strength: 10,200 psi (clear); 11,030 psi (colors)
- Continuous use temp.: 170°F

High molecular weight lends itself well to thermoforming, bending, and flame polishing. Provide excellent weather and impact resistance with low heat loss. Used in fabrication, picture framing, skylights, displays, signage, and lighting applications.

Plastic Thickness	12" x 12" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Clear Sheets					
0.093"	1UNK3	1UNK7	1UNL2	1UNL6	1UNN1
0.118"	1UNK4	1UNK8	1UNL3	1UNL7	1UNN2
0.177"	1UNK5	1UNK9	1UNL4	1UNL8	1UNN3
0.220"	1UVN7	1UVN8	1UVN9	1UVP1	1UVP2
0.236"	1UNK6	1UNL1	1UNL5	1UNL9	1UNN4
White Sheets					
#2447, 53% Light Transmission					
0.118"	1UPD8	1UPE5	1UPF2	—	1UPF9
0.177"	1UPE1	1UPE7	1UPF4	—	1UPG4
0.236"	1UPE3	1UPE9	1UPF7	—	1UPG7
#7328, 32% Light Transmission					
0.118"	1UPB2	1UPB8	1UPC5	—	1UPD2
0.177"	1UPB4	1UPC1	—	—	1UPD4
0.236"	1UPB6	1UPC3	1UPC9	—	1UPD6
Gray Sheets					
#2064, 27% Light Transmission					
0.118"	1UPV1	1UPW1	1UPX1	—	1UPY1
0.177"	1UPV4	1UPW4	—	—	—
0.236"	1UPV7	1UPW7	1UPX7	—	1UPY7
#2074, 13% Light Transmission					
0.118"	1UPZ1	1URA2	1URB2	—	1URC3
0.177"	1UPZ4	—	1URB5	—	—
0.236"	1UPZ8	1URA8	—	—	1URC9
Black Sheets					
#2025, Opaque - 0% Light Transmission					
0.118"	1UNZ5	1UNZ8	1UPA2	—	1UPA5
0.177"	1UNZ6	1UNZ9	1UPA3	—	1UPA7
0.236"	1UNZ7	1UPA1	1UPA4	—	1UPA9



Polymershapes

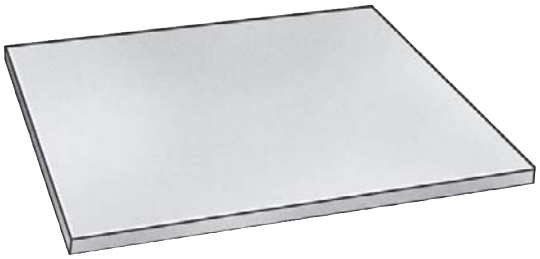
PETG (Copolyester) Food Contact Grade Sheets

- Tensile strength: 7700 psi
- Continuous use temp.: 153°F

Glycol-modified polyethylene terephthalate can be vacuum-formed to high definition and excellent cold temperature impact strength. Accepts surface printing with offset or screen printing techniques. Film is masked to protect sheets during storage. Used in revolving merchandise racks, indoor signs, photo frames, and point-of-purchase, slat-wall inventory, greeting card, and menu displays.

Note: Bulk quantities are available on Grainger.com® for Nos. 1UTV8 and 1UTW1; search for "PETG plastic".

Plastic Thickness	12" x 12" Item No.	12" x 24" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Clear Sheets, Film Masked						
0.063"	1UTJ7	1UTL5	1UTP2	1UTR8	1UTU2	1UTV4
0.078"	1UTK1	1UTL8	1UTP5	1UTT2	1UTU4	1UTV6
0.125"	1UTK4	1UTN2	1UTP8	1UTT5	1UTU6	1UTV8
0.188"	1UTK7	1UTN5	1UTR2	1UTT7	1UTU8	1UTW1
0.250"	1UTL1	1UTN8	1UTR5	1UTT9	1UTV1	1UTW3



Polymershapes

ABS (Acrylonitrile Butadiene Styrene) Sheets

- Tensile strength: 5400 psi
- Continuous use temp.: 158°F
- Heat deflection temp.: 221°F
- Impact strength: 7.5 lb.

Provides thermal and dimensional stability. Thermoformable haircell sheets have a textured surface that is excellent for hiding cuts and scratches. Used for machined, flat, and vacuum-formed parts in the food and refrigeration industries. Used to fabricate furniture, workstations, displays, guarding, and partitions.

Plastic Thickness	12" x 48" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Thermoformable Haircell Sheets - Black				
0.063"	1ZBR8	1ZBT3	1ZBT7	1ZBU2
0.125"	1ZBR9	1ZBT4	1ZBT8	1ZBU3
0.188"	1ZBT1	1ZBT5	1ZBT9	1ZBU4
0.250"	1ZBT2	1ZBT6	1ZBU1	1ZBU5



Sheet Stock

Rod Stock

Polymershapes

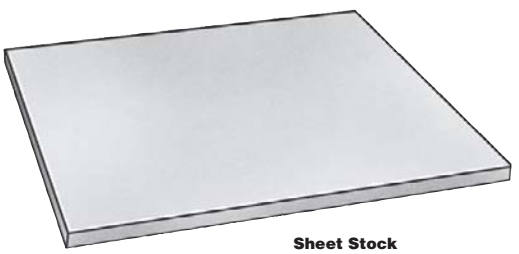
Polypropylene—Food Contact-Grade Sheets and Round Rods

- Tensile strength: 3400 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 212°F

Polypropylene has excellent electrical properties and little or no moisture absorption. Carries light loads for a long period in widely varying temperatures. Frequently machined into parts requiring chemical or corrosion resistance, such as food packaging, laboratory equipment, automotive components, valves, and fittings. Meet FDA standards.

Plastic Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 48" Item No.	48" x 8 ft. Item No.
Sheet Stock, White							
0.063"	22JL61	22JL62	22JL63	22JL64	22JL65	22JL66	22JL67
0.094"	22JM04	22JM05	22JM06	22JM07	22JM08	22JM09	22JM10
0.125"	22JL82	22JL83	22JL84	22JL85	22JL86	22JL87	22JL88
0.187"	22JL96	22JL97	22JL98	22JL99	22JM01	22JM02	22JM03
0.250"	22JL75	22JL76	22JL77	22JL78	22JL79	22JL80	22JL81
0.375"	22JM18	22JM19	22JM20	22JM21	22JM22	22JM23	22JM24
0.500"	22JL68	22JL69	22JL70	22JL71	22JL72	22JL73	22JL74
0.750"	22JM11	22JM12	22JM13	22JM14	22JM15	22JM16	22JM17
1.000"	22JL54	22JL55	22JL56	22JL57	22JL58	22JL59	22JL60
2.000"	22JL89	22JL90	—	22JL92	22JL93	22JL94	—

Dia.	48" LENGTH Item No.	96" LENGTH Item No.
Rod Stock, White		
¼"	22JM31	22JM32
⅜"	22JM35	22JM36
½"	22JM37	22JM38
¾"	22JM33	22JM34
1"	22JM27	22JM28
1¼"	22JM29	—
1½"	22JM25	22JM26



Sheet Stock

Polymershapes

TIVAR® UHMW (Ultra-High Molecular Weight) Polyethylene Sheets

Corrosion-resistant.

Dryslide—Super-low friction material is electrostatic dissipative and helps reduce surging; for dusty environments. Won't mar packaging or products. Self-lubricating to help reduce noise.
- Tensile strength: 4800 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F

High Operating Temperature (H.O.T.)—Extended operating temperature range inhibits oxidation. Abrasion-and chemical-resistant.
- Tensile strength: 5800 psi
- Continuous use temp.: 275°F
- Heat deflection temp.: 116°F

Grade 88—Abrasion-and chemical-resistant with low coefficient of friction. Reduces or eliminates arching and erratic flow; for bulk material handling applications.
- Tensile strength: 5600 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F

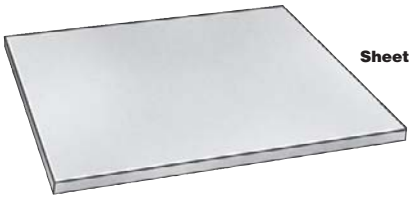
Antistatic—Self-lubricating plastic protects against electrical charge buildup and reduces noise.
- Tensile strength: 5800 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F

TIVAR®Eco—A blend of virgin and reclaimed TIVAR®. Provides excellent wear-resistance and UV stability.
- Tensile strength: 4500 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F

Plastic Thickness	24" x 48" Item No.	48" x 8 ft. Item No.	48" x 10 ft. Item No.
Dryslide - Black			
0.250"	2NHU4	—	2NHV1
0.375"	2NHU5	2NHU8	2NHV2
0.500"	2NHU6	—	2NHV3

Plastic Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 8 ft. Item No.	48" x 10 ft. Item No.
High Operating Temperature (H.O.T.) - White							
0.250"	2XPY1	2XPY5	2XPY9	2XPZ4	2XPZ8	2XRA3	6NFJ4
0.375"	2XPY2	2XPY6	2XPZ1	2XPZ5	2XPZ9	2XRA4	6NFJ5
0.500"	2XPY3	2XPY7	2XPZ2	2XPZ6	2XRA1	2XRA5	6NFJ6
0.750"	2XPY4	2XPY8	2XPZ3	2XPZ7	2XRA2	2XRA6	6NFJ7
Grade 88 - Blue							
0.250"	2XRA7	2XRC3	2XRC8	—	2XRD9	2XRE5	6NFH4
0.375"	2XRA8	—	2XRC9	2XRD5	2XRE1	2XRE6	6NFH5
0.500"	2XRA9	2XRC5	2XRD1	—	2XRE2	—	6NFH6
0.750"	2XRC1	2XRC6	2XRD2	2XRD7	2XRE3	2XRE8	6NFH7
1.000"	2XRC2	—	2XRD3	2XRD8	2XRE4	—	6NFH8
Antistatic - Black							
0.250"	2XRF1	2XRF6	2XRG2	2XRG7	2XRH3	2XRH8	6NFG9
0.375"	2XRF2	2XRF7	2XRG3	2XRG8	2XRH4	2XRH9	6NFH0
0.500"	2XRF3	2XRF8	2XRG4	2XRG9	2XRH5	2XRJ1	6NFH1
0.750"	2XRF4	2XRF9	2XRG5	2XRH1	2XRH6	—	6NFH2
1.000"	2XRF5	2XRG1	—	—	2XRH7	2XRJ3	6NFH3
Tivar Eco Recycled - Black							
0.250"	2NHV4	2NHV9	2NHW5	2NHX1	2NHX6	2NHY2	6NFH9
0.375"	2NHV5	2NHW1	2NHW6	2NHX2	2NHX7	2NHY3	6NFJ0
0.500"	2NHV6	2NHW2	2NHW7	2NHX3	2NHX8	2NHY4	6NFJ1
0.750"	2NHV7	2NHW3	2NHW8	2NHX4	2NHX9	2NHY5	—
1.000"	2NHV8	2NHW4	2NHW9	—	2NHY1	2NHY6	6NFJ3

Find more standard sizes at Grainger.com®; for custom sizes, go to grainger.com/specialorders



Sheet Stock



Rod Stock



Round Tube Stock

Polymershapes

UHMW (Ultra-High Molecular Weight) Polyethylene—Sheets, Round Rods, and Round Tubes

Material is moisture-, odor-, and stain-resistant. For wear applications, especially in contact with metals. Can be easily machined with ordinary wood-working tools. Widely used in industrial applications such as chute linings, dock bumpers, paper machine parts, and conveyor wear strips.

Standard

—Virgin food contact-grade. White color. FDA, USDA, and 3-A Dairy compliant.

- Tensile strength: 5800 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F

Tube Stock

- Temp. range: -20° to 180°F
- Tensile strength: 5800 psi
- Material: UHMW-PE

Thickness	12" x 12" Item No.	12" x 24" Item No.	24" x 24" Item No.	24" x 48" Item No.	48" x 8 ft. Item No.	48" x 10 ft. Item No.
Sheet Stock Virgin Food Contact Grade White						
0.063"	1UVT7	1UVZ1	1UWB4	1UWD7	1UWG1	6NFF1
0.125"	1UVT8	1UVZ2	1UWB5	1UWD8	1UWG2	6NFF4
0.188"	1UVT9	1UVZ3	1UWB6	1UWD9	1UWG3	6NFG2
0.250"	1UVU1	1UVZ4	1UWB7	1UWE1	1UWG4	6NFF3
0.375"	1UVU2	1UVZ5	1UWB8	1UWE2	1UWG5	6NFG4
0.500"	1UVU3	1UVZ6	1UWB9	1UWE3	1UWG6	6NFF2
0.750"	1UVU4	1UVZ7	1UWC1	1UWE4	1UWG7	6NFG3
1.000"	1UVU5	1UVZ8	1UWC2	1UWE5	1UWG8	—
1.500"	1UVU6	1UVZ9	1UWC3	1UWE6	1UWG9	—
1.750"	1UVU7	1UWA1	1UWC4	—	1UWH1	—
2.000"	1UVU8	1UWA2	1UWC5	1UWE8	—	—

Dia.	Length 1 FT Item No.	Length 3 FT Item No.	Length 6 FT Item No.
Rod Stock Black Virgin Black			
¾"	—	—	1YVP7
1"	—	—	1YVP8
1¼"	—	1YVK7	1YVP9
1½"	—	1YVK9	1YVR2
1¾"	—	1YVL1	1YVR3
2"	—	1YVL2	1YVR4
2¼"	—	1YVL3	1YVR5
2½"	—	1YVL4	—
2¾"	—	1YVL5	—
3"	—	1YVL6	1YVR8
3¼"	1YVJ2	1YVL7	—
3½"	—	1YVL8	1YVT1
3¾"	1YVJ4	1YVL9	—
4"	1YVJ5	—	1YVT3
4¼"	1YVJ6	—	1YVT4
4½"	1YVJ7	1YVN3	—
5"	1YVJ8	1YVN4	—
5½"	1YVJ9	1YVN5	—

Dia.	Length 1 FT Item No.	Length 3 FT Item No.	Length 6 FT Item No.
Rod Stock Virgin Food Contact Grade White			
¾"	—	—	1YVF4
1"	—	—	1YVF5
1¼"	—	1UXC8	1YVF6
1½"	—	1UXD1	1YVF8
1¾"	—	1UXD2	1YVF9
2"	—	1UXD3	1YVG1
2¼"	—	1UXD4	1YVG2
2½"	—	1UXD5	1YVG3
2¾"	—	1UXD6	1YVG4
3"	—	1UXD7	1YVG5
3¼"	1UXB3	1UXD8	1YVG6
3½"	1UXB4	1UXD9	1YVG7
3¾"	1UXB5	—	1YVG8
4"	1UXB6	1YVD7	1YVG9
4½"	1UXB8	1YVD9	—
5"	1UXB9	1YVE1	—
5½"	—	1YVE2	—
6"	1UXC2	1YVE3	—

Outside Dia.	Inside Dia.	Wall Thickness	Length 36" Item No.	Length 72" Item No.	Length 120" Item No.
Tube Stock Virgin Food Contact Grade White					
¾"	⅜"	0.375"	1UWN8	1UWV8	6NFE2
⅞"	¼"	0.312"	1UWN3	1UWV3	6NFD5
	⅜"	0.250"	1UWN4	1UWV4	—
1"	½"	0.250"	1UWN5	1UWV5	—
	⅝"	0.187"	1UWN7	1UWV7	—
	¾"	0.125"	1UWN6	1UWV6	—
1¼"	⅜"	0.312"	1UWP1	1UWX1	—
	1"	0.125"	1UWP3	1UWX3	—
1⅜"	⅝"	0.375"	1UWP4	1UWX4	—
	¾"	0.312"	1UWP5	1UWX5	—
	1"	0.187"	1UWP6	1UWX6	—
1½"	½"	0.500"	1UWP7	1UWX7	—
	1"	0.250"	1UWP8	1UWX8	6NFD4
	1⅛"	0.187"	1UWP9	1UWX9	6NFD0
1⅝"	1¼"	0.187"	1UWR1	1UWY1	6NFC9
1⅞"	1⅛"	0.375"	1UWR2	—	—
	1¼"	0.312"	1UWR3	1UWY3	—
1⁶³⁄₆₄"	1³⁄₆₄"	0.475"	—	1UWY2	—
2"	1"	0.500"	1UWR4	1UWY4	—
	1¼"	0.375"	1UWR6	1UWY6	—
	1⅜"	0.312"	1UWR8	1UWY8	6NFD2
	1½"	0.250"	1UWR5	1UWY5	—
	1¾"	0.125"	1UWR7	1UWY7	—
2¼"		0.250"	1UWR9	—	6NFD1
	1⅞"	0.187"	1UWT1	—	6NFD3
2⅜"	1¾"	0.312"	1UWT2	—	—
2½"	1"	0.750"	1UWT5	1UWZ5	—
	1½"	0.500"	1UWT3	—	—
	2"	0.500"	—	—	6NFC8
		0.250"	1UWT4	1UWZ4	6NFD9
2⅝"	2¼"	0.375"	1UWT6	1UWZ6	6NFD7
2¾"	2"	0.375"	1UWT7	—	—
3"		0.500"	1UWT8	1UWZ8	—
	2½"	0.250"	1UWT9	1UWZ9	—
3⅛"	2¾"	0.187"	—	1UXA1	6NFD8
3½"	2½"	0.500"	1UWU2	—	—
	3"	0.250"	—	—	6NFE1
4"		0.500"	1UWU4	1UXA4	—
	3½"	0.250"	1UWU5	1UXA5	6NFE0
4½"	4"	0.250"	1UWU6	1UXA6	6NFE6
5"		0.500"	1UWU7	1UXA7	—
	4½"	0.250"	1UWU8	1UXA8	—
5½"	4⅜"	0.563"	1UWU9	—	6NFE5
	4¾"	0.375"	1UWV1	1UXB1	—
8⅝"	7⅛"	0.375"	1UWV2	1UXB2	6NFE7

Polymershapes

UHMW (Ultra-High Molecular Weight) Polyethylene—Conveyor Guide Rails and Wear Strips

- Tensile strength: 5800 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 116°F
- Length tolerance: +0.125/-0.000"
- All pieces sold in 10-ft. lengths

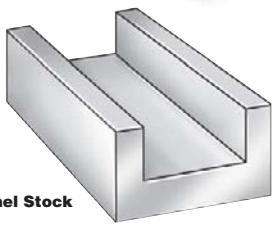
Self-lubricating, nontoxic material is chemical-, corrosion-, and wear-resistant, with a low coefficient of friction and excellent sliding properties. Used with modular belts, steel-grate bakery chains, and flat-top conveyor chains in food processing and dairy applications. White color.

Leg Length	Thickness	Item No.
Angle Stock		
⅜" x 1½"	¼"	2NJD2
1½" x 1½"	¼"	2NJC7
2" x 2"	¼"	2NJC8
3" x 3"	½"	2NJC9
3½" x 3½"	½"	2NJD1

Leg Length Dim.		Base Width Dim.		Item No.
Inside	Outside	Inside	Outside	
U Channel Stock				
⅜"	¾"	½"	1.000"	2NJC4
½"	⅞"	1"	1.500"	2NJC3
³⁹⁄₆₄"	⁴⁷⁄₆₄"	1"	1.250"	2NJC6
⅝"	1"	1½"	2.000"	2NJC2
⅝"	1"	2"	2.500"	2NJC1
⅜"	1"	2¼"	3.000"	2NJC5
⅝"	1"	2½"	3.000"	2NJA9
⅞"	1¼"	3½"	4.250"	2NJA8



Angle Stock



U Channel Stock

Polymershapes

Delrin® Acetal Homopolymer—Sheets and Round Rods



Sheet Stock

- Temp. range: 32° to 180°F

Delrin® 150—Food Contact Grade—Offers higher mechanical properties than general purpose acetals. May contain a low-density center, especially in larger cross-sections. For small-diameter, thin-walled bushings.

- Tensile strength: 11,000 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 250°F

Delrin® AF Blend—Low-Friction—This 2:1 combination of Delrin AF100 and Delrin 150 has PTFE fibers uniformly dispersed throughout; offers excellent sliding/friction properties and better wear characteristics than unfilled Delrin. Closer static and dynamic coefficient of friction allow higher-speed operation with reduced wear and virtually no slip-stick. For use in moving parts.

- Tensile strength: 8000 psi
- Continuous use temp.: 180°F
- Heat deflection temp.: 244°F



Rod Stock

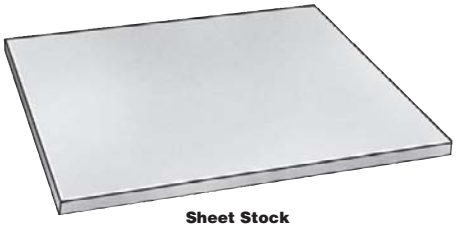
Thickness	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 24" Item No.	24" x 48" Item No.
Delrin® Type 150 Sheets—Food Contact Grade - White					
0.250"	2VEP6	2VER8	2VEU1	2VEV3	2XME8
0.375"	2VEP7	2VER9	2VEU2	2XMD7	2XME9
0.500"	2VEP8	2VET1	2VEU3	2XMD8	2XMF1
0.625"	2VEP9	2VET2	2VEU4	—	2XMF2
0.750"	2VER1	2VET3	2VEU5	2XME1	2XMF3
1.000"	2VER2	2VET4	2VEU6	2XME2	2XMF4
1.250"	2VER3	2VET5	—	—	2XMF5
1.500"	2VER4	2VET6	—	—	2XMF6
2.000"	2VER5	2VET7	—	—	2XMF7
2.500"	2VER6	—	—	—	—
3.000"	2VER7	—	—	—	—

Dia.	Length 1 FT Item No.	3 FT Item No.	6 FT Item No.
Delrin® Type 150 Round Rods—Food Contact Grade - White			
¼"	2XMG1	2XMK2	2XMP3
9/16"	2XMG2	2XMK3	2XMP4
⅜"	2XMG3	2XMK4	2XMP5
7/16"	2XMG4	2XMK5	2XMP6
½"	2XMG5	2XMK6	2XMP7
9/16"	2XMG6	2XMK7	2XMP8
⅝"	2XMG7	2XMK8	2XMP9
¾"	2XMG8	2XMK9	2XMR1
⅞"	2XMG9	2XML1	2XMR2
1"	2XMH1	2XML2	2XMR3
1⅛"	2XMH2	2XML3	2XMR4
1¼"	2XMH3	2XML4	2XMR5
1⅜"	2XMH4	2XML5	2XMR6
1½"	2XMH5	2XML6	2XMR7
1⅝"	2XMH6	2XML7	2XMR8
1¾"	2XMH7	2XML8	2XMR9
1⅞"	2XMH8	—	2XMT1
2"	2XMH9	2XMN1	2XMT2
2¼"	2XMJ1	2XMN2	2XMT3
2½"	2XMJ2	2XMN3	2XMT4
2¾"	2XMJ3	2XMN4	2XMT5
3"	2XMJ4	2XMN5	—
3½"	2XMJ5	2XMN6	—
4"	2XMJ6	2XMN7	—
5"	2XMJ8	2XMN9	—
5½"	2XMJ9	2XMP1	—
6"	2XMK1	2XMP2	—

Dia.	Length 1 FT Item No.	3 FT Item No.	6 FT Item No.
Delrin® Type AF Round Rods - Dark Brown			
¼"	2XMV8	2XMX7	2XMZ6
⅜"	2XMV9	2XMX8	2XMZ7
7/16"	2XMW1	2XMX9	—
½"	2XMW2	2XMY1	2XMZ9
⅝"	2XMW3	2XMY2	2XNA1
¾"	2XMW4	2XMY3	2XNA2
⅞"	2XMW5	—	—
1"	2XMW6	2XMY5	2XNA4
1¼"	2XMW7	2XMY6	—
1⅜"	2XMW8	—	—
1½"	2XMW9	2XMY8	2XNA7
1¾"	—	2XMY9	—
2"	2XMX2	—	2XNA9
2¼"	2XMX3	—	—
2½"	2XMX4	—	—
2¾"	2XMX5	—	2XNC3
3"	2XMX6	—	—

Polymershapes

Phenolic Sheets



Sheet Stock

- Natural (Lt. Brown) color
- Continuous use temp.: 125°F
- Heat deflection temp.: 125°F
- Width and length tolerances: ±1.000"

Cotton fabric-impregnated phenolic resin has easy machinability, low moisture absorption, and enhanced electrical properties. Will not spark when struck. For mechanical and electrical applications, such as gears, pulleys, rollers, guides, and control boards that require electrical insulation.

Thickness	12" x 12" Item No.	12" x 24" Item No.	24" x 36" Item No.	36" x 48" Item No.
NEMA Grade CE				
0.063"	3HMX9	3HMT1	3HMV1	3HMX1
0.094"	3HMY2	3HMT2	3HMV2	3HMX2
0.125"	3HMY4	3HMT3	3HMV3	3HMX3
0.188"	3HMY6	3HMT4	3HMV4	3HMX4
0.250"	3HMY8	3HMT5	3HMV5	3HMX5
0.375"	3HMZ1	3HMT6	3HMV6	3HMX6
0.500"	3HMZ3	3HMT7	3HMV7	3HMX7
0.750"	3HMZ5	3HMT8	3HMV8	3HMX8
1.000"	3HMZ7	3HMT9	3HMV9	3HMY1
NEMA Grade LE				
0.063"	3HMR1	3HMU1	3HMW1	—
0.125"	3HMR3	3HMU3	3HMW3	—
0.188"	3HMR4	—	—	3HMY9
0.250"	3HMR5	3HMU5	—	3HMZ2
0.375"	3HMR6	3HMU6	3HMW6	3HMZ4
0.500"	3HMR7	3HMU7	—	3HMZ6
0.750"	3HMR8	3HMU8	3HMW8	—
1.000"	3HMR9	3HMU9	3HMW9	—

Felt Information

WOOL FELT

Naturally flame-resistant, Type 1 wool felts will still burn when exposed to an open flame, although they will self-extinguish once the flame is removed. Material is naturally abrasion- and vibration-resistant.

SYNTHETIC POLYESTER FELT

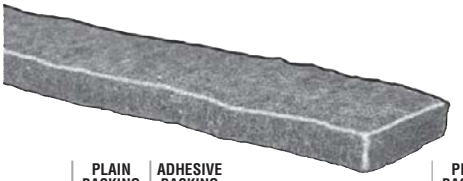
Economical synthetic felt. Ideal as a replacement for wool; however, polyester has lower sound-deadening, compression recovery, and wicking properties than wool.

FELT COMPARISON CHART

Material	Wool Fiber Content (%)	Durometer	Hardness	Tensile Strength (psi)	Resistance (psi)	Compression Recovery (%)	Max. Temp (°F)	Abrasion Resistance	Vibration Absorption	Acid Resistance	Alkalai Resistance (Dilute)	Solvent Resistance	Color
Wool Felt													
Grade F1	95	30 to 40A	Extra-Firm	500	33	99	200	Excellent	High	Good	Fair	Excellent	Off-White
Grade F3	85	30 to 40A	Firm	400	22	99	200	Excellent	High	Good	Fair	Excellent	Gray
Grade F5	95	20 to 30A	Medium	400	18	99	200	Good	Medium	Good	Fair	Excellent	Off-White
Grade F7	80	20 to 30A	Medium	250	12	99	200	Good	Medium	Good	Fair	Excellent	Gray
Grade F10	95	15 to 25A	Soft	225	8	99	200	Fair	Low	Good	Fair	Excellent	Off-White
Grade F13	75	15 to 25A	Soft	225	2	99	200	Fair	Low	Good	Fair	Excellent	Gray
Grade F26N	45	5 to 15A	Soft	75	2	99	200	Poor	Very Low	Good	Fair	Excellent	Gray
Synthetic Polyester Felt													
Polyester	—	75 to 85A	Medium	500	—	85	300	Excellent	Ultra-High	Good	Fair	Excellent	White

GA GRAINGER APPROVED

Felt Strips and Sheets



Thickness	L	Density (lb./sq. yd.)	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
1"W - Wool Felt Strips				
Grade F1				
⅜"	12"	6	2FGY2	—
Grade F13				
⅛"	120"	1	2FKD8	2FKX1
3⁄16"	120"	1½	—	2FKX3
¼"	120"	2	2FKE3	2FKX5
½"	120"	4¼	2FKE7	2FKX9
Grade F3				
⅛"	120"	2	2FHR9	2FJH2
¼"	120"	4	2FHT4	2FJH6
½"	120"	8	—	2FJJ1
Grade F7				
⅛"	120"	1½	2FHV1	2FJP6
¼"	120"	3	2FHV5	2FJR1
½"	120"	6	2FHV9	2FJR5
1"W - Synthetic Polyester Felt Strips				
Grade Poly				
⅛"	120"	1⅛	2HVB2	2HVE5
¼"	120"	1½	2HVB3	2HVE6
½"	120"	3⅛	—	2HVE7
1½"W - Wool Felt Strips				
Grade F13				
⅛"	120"	1	2FKH2	2FLA4
¼"	120"	2	2FKH6	2FLA8
½"	120"	4¼	2FKJ1	2FLB3
Grade F3				
⅛"	120"	2	2FHW3	2FJL5
¼"	120"	4	2FHW7	2FJL9
Grade F5				
⅛"	120"	1½	2FKG6	2FKZ6
¼"	120"	3	2FKH1	2FLA1
½"	120"	6	2FKH5	2FLA5
Grade F7				
⅛"	120"	1½	2FHY4	2FJU9
¼"	120"	3	2FHY8	2FJV4
⅜"	120"	4½	—	2FJV6
½"	120"	6	2FHZ3	2FJV8

Thickness	L	Density (lb./sq. yd.)	PLAIN BACKING Item No.	ADHESIVE BACKING Item No.
2"W - Wool Felt Strips				
Grade F13				
⅛"	120"	1	2FKL5	2FLD7
¼"	120"	2	2FKL9	2HUN5
½"	120"	4¼	2FKN4	2HUN7
Grade F26N				
⅛"	120"	⅞	2HUV2	2HUY3
¼"	120"	1⅝	2HUV3	2HUY4
½"	120"	3⅜	2HUV5	2HUY6
Grade F3				
⅛"	120"	2	—	2FJR8
¼"	120"	4	2FJA1	2FJT3
⅜"	120"	6	2FJA3	2FJT5
½"	120"	8	2FJA5	2FJT7
Grade F5				
¼"	120"	3	2FKL2	—
Grade F7				
⅛"	120"	1½	—	2FJY3
¼"	120"	3	2FJC2	2FJY7
½"	120"	6	2FJC6	—
2"W - Synthetic Polyester Felt Strips				
Grade Poly				
⅛"	120"	1⅛	2HVC5	2HVF5
¼"	120"	1½	2HVC6	2HVF6
½"	120"	3⅛	2HVC8	2HVF7

Thickness	Size	Density (lb./sq. yd.)	PLAIN BACKING TYPE Item No.	ADHESIVE BACKING TYPE Item No.
Synthetic Polyester Felt Sheets				
⅛"	60" x 72"	1⅛	2HUZ4	2HVD3
¼"	60" x 72"	1½	2HUZ5	2HVD4
¼"	120" x 72"	1½	—	2HVD7
⅜"	120" x 72"	2¼	2HVA1	—
⅜"	60" x 72"	2¼	2HUZ6	—
½"	60" x 72"	3⅛	2HUZ7	2HVD5

Thickness	Size	Density (lb./ sq. yd.)	PLAIN BACKING TYPE Item No.	ADHESIVE BACKING TYPE Item No.	GRADE F1 Item No.
Wool Felt Sheets					
Grade F1					
1⁄16"	12" x 12"	1	2DAH6	2FGW4	—
⅛"	12" x 12"	2	2DAH7	2FGW5	—
¼"	12" x 12"	4	2DAH9	2FGW7	—
¼"	12" x 60"	4	2FGW1	—	—
½"	12" x 12"	8	2DAJ2	—	—
½"	12" x 60"	8	2FGW3	—	—
½"	36" x 60"	8	3EDR8	—	—
¾"	12" x 12"	12	2DAJ3	—	—
1"	12" x 12"	16	2DAJ4	—	—
Grade F3					
⅛"	12" x 12"	2	2FHF7	2FJA7	—
¼"	12" x 12"	4	2FHG2	2FJA9	—
½"	12" x 12"	8	2FHG6	2FJB4	—
½"	36" x 60"	8	3EDT4	—	—
Grade F5					
⅛"	12" x 12"	1½	2FJV1	2FKL8	—
½"	12" x 12"	6	2FJV9	2FKN5	—
Grade F7					
⅛"	36" x 72"	1½	3HAU6	—	—
⅜"	12" x 12"	4½	2FHG3	2FJD3	—
½"	12" x 12"	6	2FHG5	2FJD5	—
¾"	12" x 12"	9	2FHG7	—	—
Grade F10					
⅜"	12" x 12"	3	2FKA1	—	—
Grade F13					
1"	36" x 72"	8	3HAW7	—	—
Grade F26N					
⅛"	12" x 12"	⅞	2HUN8	2HUV6	—
¼"	12" x 12"	1⅝	2HUP1	2HUV7	—
½"	12" x 12"	3⅜	2HUP3	2HUV9	—
1"	36" x 72"	7¼	3HAX8	—	—
Wool Felt with Adhesive Backing Type					
Grade F1					
½"	12" x ½"	8	—	—	406F90

Burlap Fabric

MJ May MATERIAL SPECIALISTS INC.

Woven from natural jute fibers, this coarse fabric is 100% biodegradable and recyclable. Burlap has exceptional tensile strength and tear resistance. Large weave pattern results in exceptional breathability. Used in multiple industries including textile, construction, agriculture, and packaging.



Thickness	W	L	Item No.
6.75 oz. Fabric Weight			
3⁄32"	30"	50 ft.	48YG47
3⁄32"	40"	50 ft.	48YG53
3⁄32"	40"	100 ft.	48YG49
3⁄32"	40"	150 ft.	48YG50
9 oz. Fabric Weight			
3⁄32"	30"	100 ft.	48YG67
3⁄32"	40"	150 ft.	48YG74



Multi-Purpose 27
No. 6KWY1



FoamFast 74
No. 3MA18



Hi-Tack 76
No. 3MA22



Super 77™
No. 3MA23



Hi-Strength 90
No. 3MA16



Adhesive Remover
No. 3KB83

Spray Adhesives

3M

Heavy-Duty 20 and Multipurpose 27—Fast-tack sprays cover a wide variety of substrates.

Pressure Sensitive 72—Industrial-grade formula is permanently tacky and repositionable. Can be used as pipe insulation lap adhesive.

Foam Fast 74—Features high coverage, soft bond lines, and immediate bonds.

Hi-Tack 76—High tack for 1-surface bonding.

Super 77™ Multipurpose—High-tack, fast-drying spray bonds quickly. Low soak-in for long-lasting bond.

Insulation 78—Foam adhesive bonds polystyrene with no surface degradation.

Rubber and Vinyl 80—Neoprene-based adhesive is plasticizer-resistant.

Hi-Strength 90—Creates a high-strength bond with excellent moisture resistance. Features variable-width lace spray pattern.

Shipping Mate Case Sealing™—Reseals cartons which come unglued or have to be opened and resealed. Holding strength in 10 sec. with carton-tearing strength in 5 min. Nonmisting, precise spray control.

Dry Layup Adhesive—This sprayable, synthetic elastomer-based adhesive is designed to reduce the amount of time required for dry layup of fiberglass.

Adhesive Remover, Citrus-Based—Leaves no residue and can replace mineral spirits, acetone, and other organic solvents for general cleaning.

CRC

Spray Adhesive—General-purpose, quick tack adhesive is ideal for labeling boxes and machinery, sealing packages for shipment, hanging insulation, repairing furniture, and displaying materials.

LOCTITE

Maximum Strength Headliner—Water-resistant aerosol formula is effective in contact with automotive fluids except gasoline. Sprays on clear. Air dries in 5 min.

SPRAYON

General Purpose and SP900 Heavy-Duty—Provide bonding for woodworking, installing insulation, and product line work. Dry quickly. General Purpose is foam-safe; delivered in a controlled mist spray pattern. SP900 Heavy-Duty forms permanent bonds; controlled lace spray pattern. VOC and MIR compliant.

GORILLA®

Heavy-duty, multipurpose, and easy-to-use adhesive forms a clear, permanent bond that is moisture resistant, photo safe, and can be used on projects both indoors and out. Wide pad nozzle and controlled, fine mist spray allow even application.

Description	Bonds Substrates	VOC Levels Meet SCAQMD Requirements	Temp. Range (F)	Size	Item No.
3M					
Heavy Duty 20	Laminates, Metals, Plastics, Rubber, Wood	No	Up to 210°	20 oz.	**6KWX9**
Multi-Purpose #27	Paper, Cardboard, Fabrics, Soft Foams	No	Up to 140°	20 oz.	**6KWY1**
Pressure Sensitive 72	Carpet Tiles, Cement Walls, Foam, Pool Liners, Polyethylene and Polypropylene	Meets SCAQMD Requirements	0° to 120°	24 oz.	**3KB82**
FoamFast 74	Flexible and Rigid Foam, Upholstry Foam, Plastics (Latex, Urethane), Fabric, Felt, Cork	Meets SCAQMD Requirements	0° to 120°	24 oz.	**3MA18**
		No	-30° to 200°	24 oz.	**15E722**
Hi-Tack 76	Cardboard, Cork, Fabrics, Felt, Foils, Glass, Metal, Plastics, Rubber, Vinyl, Wood	Meets SCAQMD Requirements	0° to 160°	24 oz.	**3MA22**
Super 77™	Cardboard, Carpet Tiles, Drywall Corner Beads, Fabrics, Films, Foam, Foils, Insulation, Metal, Paper, Plastics, Wood	Meets SCAQMD Requirements	0° to 110°	16.75 oz.	**3MA23**
		No	-30° to 200°	18 oz.	**15E719**
	EPDM Rubber, Fabric, Felt, Cork and Fibrous Glass, Flexible Foam (Latex, Urethane), Glass and Ceramics, Leather, Metal, Paper and Cardboard, Plastics (ABS, PVC, Acrylic), Plastics (Flexible Vinyl), Plastics (High Performance Nylon), Plastics (Polyolefin and Thermoplastic Elastomers), Rigid Foam (Urethane), Rubber (Except EPDM), Wood and Hardboard	Meets SCAQMD Requirements	0° to 150°	20 oz.	**400G22**
		Meets SCAQMD Requirements	0° to 150°		**400G23**
Insulation 78	Wood, Metal, Glass, Ceramics, Leather, Felt, Fabric, Cardboard, Insulation, Paper	Meets SCAQMD Requirements	0° to 140°	24 oz.	**3MA19**
Rubber and Vinyl 80	Laminates, Plastics, Most Rubber and Supported Vinyl, Leather, Wood	Meets SCAQMD Requirements	0° to 200°	24 oz.	**3MA20**
Hi-Strength 90	Kick Plates, Laminates, Polyethylene and Polypropylene, Wood, Metal, Glass, Ceramics, Leather, Felt, Fabric	Meets SCAQMD Requirements	0° to 160°	24 oz.	**3MA16**
		No	-30° to 200°	24 oz.	**15E720**
		No	—	460.8 oz.	**29UJ17**
	EPDM Rubber, Fabric, Felt, Cork and Fibrous Glass, Flexible Foam (Latex, Urethane), Glass and Ceramics, Leather, Metal, Paper and Cardboard, Plastics (ABS, PVC, Acrylic), Plastics (Flexible Vinyl), Plastics (High Performance Nylon), Plastics (Polyolefin and Thermoplastic Elastomers), Rigid Foam (Urethane), Rubber (Except EPDM), Wood and Hardboard	No	0° to 122°	20 oz.	**400G24**
Shipping Mate Case Sealing™	Cardboard and Corrugated Cartons	Meets SCAQMD Requirements	0° to 160°	24 oz.	**3MA21**
Dry Layup Adhesive	Glass, Fabrics, And Roving	No	0° to 150°	24 oz.	**3RAL5**
Adhesive Remover, Citrus-Based	—	No	—	18.50 oz.	**3KB83**
CRC					
Spray Adhesive	Foam, Foils, Plastics, Papers, Cardboard And Cloths	No	122°	24 oz.	**13P445**
Loctite					
Maximum Strength Headliner Adhesive	Foam, Carpet, Fabrics, Plastics, Rubber	No	0° to 170°	16.75 oz.	**29UJ66**
Sprayon					
General Purpose	Cardboard, Carpets, Cartons, Cloth, Fabric, Fiberglass, Foil, Felt, Lighweight Foams, Plastics, Paper, Metal, Wood	Meets SCAQMD Requirements	-20° to 170°	16.75 oz.	**406R82**
SP900 Heavy-Duty	Laminates, Plastics, Glass, Cardboard, Ceramics, Metal, Particle Board, Paper, Wood	Meets SCAQMD Requirements	-20° to 170°	16.25 oz.	**406R81**
Gorilla					
Heavy-Duty	Wood, Metal, Fabric, Foam, Most Plastics, Paper, Glass, Leather	Meets SCAQMD Requirements	32° to 120°	14 oz.	**453U46**

Epoxy Adhesives

Use epoxy on a wide range of formulations to join construction elements together and form a strong bond. These adhesives protect underlying surfaces from dirt and moisture.They are widely used due to their resistance to chemicals and environments, their high strength, and their ability to resist deformation under sustained load.

3M Scotch-Weld—All DP series adhere to metal and plastic. DP110 also bonds to rubber. DP420 also adheres to ceramic, glass, and wood. DP460 is also for use with ceramic and wood.

Devcon®—All bond to metal, glass, ceramic, concrete, and wood.

Gorilla Glue®—For use on ceramic, metal, and wood.

Loctite®—All Hysol Series are for use on metal and plastic. E-00CL™, E-00NS™, E-20HP™, E-30CL™, and E-90FL™ can also bond to ceramics and glass. E-60NC™ are for use with electronics. Fixmaster® Fast Cure Epoxy bonds to metal, ceramic, concrete, wood, glass, and plastic. Nos. 4KL23 and 3KE55 include 10 premeasured cups each.

J-B Weld®—All bond to metal and plastic. Weld and Professional Series also adhere to wood. Kwik Weld also bonds to fiberglass. Use Marine Weld for ceramic, fiberglass, glass, masonry, and wood.

Super Glue®—Quick Setting Metal is for use on aluminum, copper, stainless steel, brass, iron, and steel. Plastic Fusion® is for use on plastic, rubber, metal, concrete, and porcelain. All other epoxies are used for glass, metal, wood, rubber, and plastic.

Vibra-Tite®—All adhere to ceramic, metal, and wood.



DP100
No. 489J86



5-Minute® Epoxy
No. 5A462



Epoxy Adhesive
No. 4YKT2



Fixmaster®
No. 1YDZ8



J-B Weld®
No. 2UV83



Quick Setting
No. 1FBG6

Description	Application	Container Type	Size	Color	Work Life	Functional Cure	Full Cure	Mixing Ratio	Shear Strength (psi)	Epoxy Max. Temp Range	Item No.
3M Scotch-Weld											
DP100	Bond, Fill, Seal	Dual-Cartridge	1.64 oz	Clear	—	20 min	48 hr	1:1	1,500	300°F and Above	**489J86**
DP100 Plus		Dual-Cartridge	1.64 oz	Clear	4 min	20 min	48 hr	1:1	1,500	300°F and Above	**489J87**
DP105	Bonding	Dual-Cartridge	1.64 oz	Clear	5 min	20 min	48 hr	1:1	2,000	200° to 249°F	**489J90**
DP110		Dual-Cartridge	1.64 oz	Gray	10 min	20 min	48 hr	1:1	3,500	200° to 249°F	**489J91**
DP125		Dual-Cartridge	1.64 oz	Gray	25 min	150 min	7 day	1:1	2,500	300°F and Above	**489J93**
DP190		Dual-Cartridge	1.64 oz	Gray	—	10 hr	14 day	1:1	2,500	200° to 249°F	**489J94**
DP420	For The Structural Bonding	Dual-Cartridge	1.69 oz	Off-White	20 min	2 hr	24 hr	2:1	4,500	200° to 249°F	**489J98**
		Dual-Cartridge	1.69 oz	Black	20 min	2 hr	24 hr	2:1	4,500	200° to 249°F	**489J97**
DP460	Bonding	Dual-Cartridge	1.69 oz	Off-White	1 hr	1 hr	48 hr	2:1	4,650	200° to 249°F	**489J99**
DP460NS		Dual-Cartridge	1.64 oz	Off-White	1 hr	1 hr	48 hr	2:1	4,650	200° to 249°F	**489K01**
Devcon											
5-Minute® Epoxy	For Fast Curing and General Purpose, Rigid Bond in 5 min	Syringe	0.85 oz	Amber	6 min	15 min	12 hr	1:1	1,900	200° to 249°F	**5A462**
	For Rapid Curing and General Purpose, Rigid Bond in 5 min	Dual-Cartridge	1.69 oz	Off-White	3 min	1 hr	12 hr	1:1	1,900	200° to 249°F	**4TT42**
5-Minute® Epoxy Gel	For all Metal Bonding that Requires Fast Curing and Greater Gap Filling Capabilities, Disappearing Blue Coloring Tells You When the Product Is Thoroughly Mixed for Easy Use	Syringe	25 mL	Gray	7 min	—	12 hr	1:1	2,500	—	**5E156**
	For all Metal Bonding that Requires Fast Curing and Greater Gap Filling Capabilities	Dual-Cartridge	50 mL	—	4 min	—	48 hr	1:1	2,500	—	**4TT41**
2-Ton® Clear Epoxy	—	Syringe	25 mL	—	12 min	—	16 hr	1:1	2,250	—	**5E157**
		Dual-Cartridge	50 mL	—	8 min	—	16 hr	1:1	2,250	—	**4TT40**
Gorilla											
Epoxy Adhesive	Repairing and Bonding For Home, Farm, Office and Marine	Syringe	0.85 oz	Clear	5 min	1.5 hr	24 hr	1:1	2,600	200° to 249°F	**4YKT2**
Loctite											
Hysol E-00CL™	—	Dual-Cartridge	1.69 oz	Clear	3.5 min	15 min	24 hr	1:1	2,160	300°F and Above	**4UK08**
Hysol E-00NS™		Dual-Cartridge	1.69 oz	Clear	3 min	15 min	24 hr	1:1	1,600	199°F and Below	**4UK11**
Hysol E-05CL™	Fast Fixture, High Peel, Low Odor	Dual-Cartridge	1.69 oz	Clear	3 min	30 min	24 hr	1:1	1,430	250° to 299°F	**2VRH6**
Hysol E-20HP™	—	Dual-Cartridge	1.69 oz	Tan	20 min	2 hr	24 hr	2:1	3,270	250° to 299°F	**4UK09**
Hysol E-30CL™	Chemical Resistant, Impact Resistant, Low Viscosity	Dual-Cartridge	1.69 oz	Clear	30 min	3 hr	24 hr	2:1	3,100	250° to 299°F	**2VRH9**
Hysol E-60NC™	Non-Conductive	Dual-Cartridge	1.69 oz	Black	1 hr	3 hr	24 hr	1:1	2,630	250° to 299°F	**2VRJ1**
	—	Dual-Cartridge	6.76 oz	Black	1 hr	3 hr	24 hr	1:1	2,630	250° to 299°F	**2VRJ2**
Hysol E-90FL™		Dual-Cartridge	1.69 oz	Gray	90 min	3 hr	24 hr	1:1	810	200° to 249°F	**4UK10**
Hysol E-120HP™		Dual-Cartridge	1.69 oz	Amber	120 min	3 hr	24 hr	2:1	4,300	300°F and Above	**4UK12**
Hysol 608™		Dual-Cartridge	1.69 oz	Clear	5 min	15 min	24 hr	1:1	2,980	199°F and Below	**2VRH7**
	Fast Fixture, High Peel, Low Odor	Tube	2.8 oz	Clear	5 min	15 min	24 hr	1:1	2,980	199°F and Below	**2VRH8**
Fixmaster® Fast Cure	Plumbing Repairs	Stick	4.0 oz	White	15 min	30 min	30 min	1:1	900	300°F and Above	**1YDZ8**
	For Bonding Glass, Rubber and Metal	Can	40 g	Gray	5 min	10 min	12 hr	1:1	2,000	199°F and Below	**4KL23**
		Can	10.0 oz	Gray	5 min	10 min	12 hr	1:1	2,000	199°F and Below	**3KE55**
	Bonds And Repairs Cracks And Worn Surfaces, Fast Cure, Multipurpose	Syringe	1.0 oz	Clear	8 min	Not Rated	1 hr	1:1	2,300	300°F and Above	**5YGU7**
J-B Weld											
J-B Weld	For Repairing and Bonding Heavy Duty, Automotive, Home, Industrial, Farm and Marine Situations	Tube	1.0 oz	Gray	30 min	6 hr	24 hr	1:1	3,960	300°F and Above	**2UV83**
J-B Weld Professional		Tube	5.0 oz	Gray	30 min	6 min	4 to 6 hr	1:1	3,127	300°F and Above	**2UV88**
J-B Kwik Weld	For Repairing Hobbies and Crafts, Hot and Cold Pipes, Furnaces, Hot Water Heaters, Disposals, Toilets, Appliances, Tools, Yard Equipment and Electrical Plugs	Tube	1.0 oz	Gray	2 min	3 hr	6 hr	1:1	2,424	300°F and Above	**2UV85**
MarineWeld	For Repairing And Bonding Marine Applications	Tube	1.0 oz	Gray	20 min	6 hr	24 hr	1:1	3,960	300°F and Above	**5DFV0**
Super Glue											
Quick Setting	Fast Bonding And Repairing, Durable And Sandable In Final Cure	Tube	0.5 oz	Yellow	4 to 6 min	—	24 hr	1:1	1,200	199°F and Below	**3EHR5**
	Repairing and Bonding For Home, Farm, Office and Marine	Syringe	1.0 oz	Yellow	4 to 6 min	—	24 hr	1:1	1,200	199°F and Below	**1FBG6**
Quick Setting Gel	Fills Gaps and on Large Porous Surfaces	Syringe	1.0 oz	Off-White	4 to 6 min	—	24 hr	1:1	1,500	300°F and Above	**1FBH1**
Quick Setting Metal	Industrial Strength, Repair and Bonding of Metals	Syringe	1.0 oz	Gray	4 to 6 min	—	24 hr	1:1	2,500	300°F and Above	**1FBG9**
Instant Setting	90 Second Setting For Fast Bonding	Syringe	1.0 oz	Yellow	90 sec	—	24 hr	1:1	2,000	199°F and Below	**3EHR4**
Super Strength	Industrial Strength Bonding and Repair, For The Home, Office, Farm and Marine	Syringe	1.0 oz	Yellow	30 min	—	24 hr	1:1	2,000	200° to 249°F	**1FBG8**
Plastic Fusion®	Repairing of Toys, Plastic Fixtures, Jewelry and Taxidermy	Syringe	1.0 oz	Yellow	5 to 10 min	—	24 hr	1:1	4,000	250° to 299°F	**1FBG7**
Vibra-Tite											
905 Quick Cure	For Bushing Assembly in Cars, Fiberglass Decks in Boats, Relays and Controls in Electronic Equipment, Lawn Sprinklers, Office Partitions, Pump Casting Components, Golf Clubs, Home Furniture and Surgical Instruments	Dual-Cartridge	1.69 oz	Clear	6 min	6 min	24 hr	1:1	1,000	250° to 299°F	**49CF04**



Plastic Welder™



Depend® 330™ No. 4KL14

Devcon LOCTITE 3M

Acrylic Structural Adhesives

These durable acrylic adhesives combine the benefits of fast process speeds with tough, durable, and environmentally resistant bond strengths. They perform well against the elements because they are waterproof and stand up to UV exposure. Feature a higher tolerance for unprepared surfaces.

DEVCON

Plastic Welder™—Bonds most plastics, bare metals, and dissimilar substrates.

LOCTITE

Loctite® 324™/325™/326™—Bond to alnico, ferrite, and neodymium metals.

Depend® 330™—Bond to ceramic metal, plastic, and wood.

3M™

Bonds to low surface energy plastics (LSE), thermoplastics, composites, and metals.

Description	Type	Container Type	Size	Color	Work Life	Functional Cure	Full Cure	Shear Strength (psi)	Item No.
Devcon									
Plastic Welder™	Non-Sag Adhesive For Vertical Applications To Metal, Glass, Phenolic, Ceramic	Syringe	25mL	—	6 min.	—	24 hr.	3500	**5E158**
Loctite									
Loctite® 324™	Larger Gap Applications, Impact Resistant	Bottle	1.69 oz.	Amber	5 min.	5 min.	24 hr.	2700	**2LTC7**
Loctite® 325™	High Temp., Chemical Resistant	Bottle	1.69 oz.	Amber	5 min.	5 min.	24 hr.	1600	**2LTC8**
Loctite® 326™	High Strength, Fast Fixture and Cure, Solvent Resistant	Bottle	1.69 oz.	Amber	5 min.	1 min.	24 hr.	2200	**2LTC9**
Depend® 330™	No-Mix Adhesive Kit	Syringe	0.85 oz.	Yellow	5 min.	5 min.	24 hr.	3300	**4KL14**
		Tube	6.76 oz.	Yellow	5 min.	5 min.	24 hr.	3300	**4KL15**
3M									
DP8005	Medium Viscosity	Dual-Cartridge	1.52 oz.	Black	3 min.	3 hr.	24 hr.	2000	**49Z641**



1099 Scotch-Weld™ No. 3XH42



PR100 No. 400G26

3M

Plastic Adhesives

Plastic adhesives are resistant to weathering, oil, water, and plasticizer migration. They create a permanent bond. Fiberglass-reinforced polyester is ideal for long-lasting repairs.

1099 Scotch-Weld™—Bonds vinyl extrusions and sheeting, fabrics, foams, and many plastics.

4475 Industrial Plastic Adhesive—Bonds many ceramics, glass, leather, cloth, and vinyls.

PR100—Precision nozzle. Recommended for gasket attachment, small joint assembly, jewelry assembly, Orthopedics and footware.

Description	Materials Bonded	Container Type	Container Size	Cured Color Family	Begins to Harden	Functional Cure	Full Cure	Shear Strength	Application Temp. Range	Item No.
1099 Scotch-Weld™	Fabric, Foam, Plastics, Vinyls	Can	1 qt.	Beiges	—	24 Hrs.	24 hr.	—	Less Than 230°F	**2RUE7**
	Fabric, Foam, Plastic, Vinyl	Tube	5.00 oz.	Beiges	40 min.	Not Rated	24 hr.	1306	Less Than 230°F	**3XH42**
4475 Industrial Plastic Adhesive	Plastic	Can	5.00 oz.	Clears	5 min.	Not Rated	24 hr.	1000 psi	Less Than 230°F	**3XH51**
PR100	Plastic, Rubber	Bottle	0.70 oz.	—	10 to 30 sec.	24 hr.	24 hr.	—	—	**400G26**



Hysol® U-05FL™

LOCTITE

Urethane Adhesives

- 1.69-oz. cartridge
- Temp. range: -65° to 250°F

Urethane or polyurethane adhesives exhibit superior moisture and humidity resistance, as well as good toughness and flexibility. They bond a wide variety of materials, including most metals plastics, and composites.

Hysol® U-05FL™—Bonds a variety of metals, as well as plastics, glass, wood, and more. Can also be used for potting and encapsulating strain and heat sensitive electronic components.

Hysol® U-09FL™—Ideal for bonding polycarbonate and other plastics, glass, and metal. Suited for applications requiring a clear, nonyellowing bond line.

Hysol® U-09LV™—Bonds polycarbonate and other plastics, glass, and metal. Suited for applications requiring a clear, nonyellowing bond line.

Description	Type	Color	Work Life	Functional Cure	Full Cure	Mixing Ratio	Shear Strength (psi)	Item No.
Hysol® U-05FL™	No-Mix Adhesive Kit	Off-White	5 min.	3 hr.	72 hr.	—	930	**4UK14**
Hysol® U-09FL™	For Plastic, Impact Resistant, High Peel	Clear	10 min.	2 hr.	72 hr.	1:1	1460	**2VRJ3**
Hysol® U-09LV™	Low Viscosity, Medium Work Life	Clear	10 min.	3 hr.	72 hr.	1:1	1146	**2VRJ4**


Westward®
No. 48H964


3M™
No. 3L943


Cox®
No. 3EPT4


Cox®
No. 12G283


Loctite®
No. 3NVL4


Newborn
No. 3EAD9

Epoxy Applicators and Nozzles

Description	For Use With	Application	Mixing Ratio	Includes	Mfr. Model	Item No.	Pkg. Qty.
Westward®							
Manual Applicator							
Dual Cartridge Manual	50mL Cartridges	Use With 50mL Duo-Pak Cartridges	1:1, 2:1	2 Plungers 1:1, 2:1	48H964	**48H964**	1
Plunger							
Epoxy Applicator Plungers	No. 48H964	Use with Applicator No. 48H964	1:1, 2:1, 4:1, 10:1	Plunger Kits for 1:1, 2:1, 4:1, 10:1 Mix Ratios	48H965	**48H965**	1
Static Mix Nozzle							
Mixing Epoxy Applicator Nozzle, 4" Length, 17 Cascades	50mL Cartridges, Duo-Pak Epoxy Cartridges	Use With Duo-Pak Epoxy Cartridges	1:1, 2:1	—	48H967	**48H967**	10
Mixing Epoxy Applicator Nozzle, 6" Length, 21 Cascades, Round Connector	50mL Cartridges		1:1, 2:1, 4:1		48H966	**48H966**	10
Mixing Epoxy Applicator Nozzle, Square Green, 16 Cascades	50mL Cartridges		1:1, 2:1		48H968	**48H968**	10
3M							
Manual Applicators							
EPX™ Metal	50mL Duo-Pak Cartridges	Use With 50ml Scotch-Weld Duo-Pak Cartridges	2:1	1 Plunger	METAL EPX APPLICATOR	**3L943**	1
Static Mix Nozzle							
	10:1 Acrylic Adhesives, 45mL Cartridges	Mixing Nozzle	10:1	—	NOZ	**33HE86**	36
Square Gold Cascade	Mfr. No. EPX PLUS II	Square Gold Cascade for Applicator No. 4TY44	1:1, 2:1		50008	**1VAL5**	12
Cox®							
Manual Applicators							
Dual Cartridge	200mL Cartridges	To Dispense Sealants And Adhesives	1:1, 2:1, 4:1, 10:1	Plunger Kit for 4 Mix Ratios	M200XMR	**3EPT4**	1
	400mL Cartridges		1:1, 2:1, 4:1, 10:1		M400XMR	**3EPT5**	1
	50mL Cartridges	—	1:1, 2:1, 4:1, 10:1	Plunger Kits for All Mix Ratios	MP25	**12G283**	1
Manual	10 oz. Cartridges	To Dispense Sealants and Adhesives	18:1	—	41004-XT	**23YJ69**	1
	10 oz. Cartridges		26:1		41004-2T	**23YJ70**	1
Rechargeable							
Dual Cartridge	200mL Cartridges	To Dispense Sealants and Adhesives	1:1, 2:1, 4:1, 10:1	Plunger Kits for All Mix Ratios, Battery Charger, Battery	81200MR	**48ME59**	1
Pneumatic Applicators							
Dual Cartridge	400mL Cartridges	—	1:1, 2:1, 4:1, 10:1	Plunger Kits for All Mix Ratios	A400LPMR	**12G285**	1
Devcon®							
Manual Applicator							
Mark 5™	47mL and 50mL Cartridges	Use with Devcon 47ml and 50ml DevPak	1:1, 2:1, 10:1	3 Plungers	14280	**4TT43**	1
Static Mix Nozzle							
Mark 5™ Stepped Tip	No. 4TT43	Use with No. 4TT43 Applicator Gun	1:1, 2:1, 10:1	—	14285	**4TT44**	1
Loctite®							
Manual Applicator							
Dual Cartridge Manual	50mL Cartridges	Use With 50mL Epoxy Adhesives	1:1, 2:1	2 Plungers	720228	**3NVL4**	1
Static Mix Nozzles							
Mixing Nozzles	50mL Cartridges	Use 50mL Epoxy Adhesives	1:1, 2:1, 4:1	—	833982	**3NVL6**	10
Stepped End	50mL Cartridges	Use with All Hysol 50ml Cartridges	1:1, 2:1, 4:1		720230	**4UK16**	10
Newborn							
Manual Applicators							
Snap-In/Snap-Out Push Disk	16 oz. and 22 oz. Cartridges	Use With 300mL x 300mL Adhesives	1:1, 2:1, 4:1	Push Disks for 3 Mix Ratios	535-XSP	**3EAE2**	1
	2-Part 200mL and 400mL Cartridges	Use With 400mL Adhesives	1:1, 2:1, 4:1, 10:1	Push Disks for 4 Mix Ratios	VR400-XSP	**3EAE5**	1
Pneumatic Applicator							
Snap-In/Snap-Out Push Disk	16 oz. and 22 oz. Cartridges	Use With 300mL x 300mL Adhesives	1:1, 2:1, 4:1	—	830A30	**3EAD9**	1

Epoxy, Urethane, and Silicone Adhesive Packets

- 1:1 mixing ratio
- Full cure: 24 hr.
- Pkg. of 10 (3.5g) packets

EPOXY ADHESIVES
Chemical- and water-resistant once cured.

SILICONE ADHESIVES
Flexible once cured to form a bond that resists moisture, vibration, ozone, and temperature extremes.

URETHANE ADHESIVES
Fast-setting adhesives have excellent tear, abrasion, wear, and scratch resistance.



No. 3KYZ1

Type	Substrates	Color	Work Life	Mfr. Model	Item No.
Epoxy Adhesives					
Fast Setting, Non-Sag, One Time Use	wood, glass, metal, stone, ceramics and leather	White	5 min.	4008-BG10	**3KZA4**
Fast Setting, One Time Use	Wood, Glass, Metal, Stone, Concrete, Ceramics and Leather		3 min.	4001-BG10	**3KYZ1**
General Purpose, One Time Use	Wood, Metal, Concrete, Fabrics, Most Plastics, Ceramics	Amber	45 min.	4006-BG10	**3KZA2**
Machineable, One Time Use	Metal, Wood and Hard Plastics	Silver	25 min.	4002-BG10	**3KYZ3**
One Time Use Wet Surface Patch	stone, concrete, metal, glass, china, wood and fiberglass.	Gray	25 min.	4003-BG10	**3KYZ5**
Water Clear One Time Use	metal, ceramics, glass, porcelain and wood	Clear	1 hr.	4004-BG10	**3KYZ7**
Silicone Adhesives					
One Time Use	metal, glass, wood, ceramics and many plastics	Off White	10 min.	4030-BG10	**3KZC3**
Urethane Adhesives					
High Peel Strength, One Time Use	Rubber, Leather, China, Many Plastics	Tan	5 min.	4022-BG10	**3KZA6**
Semi-Rigid, One Time Use	Rim Ports, Rubber, Flexible Electrical Connections	White	5 min.	4023-BG10	**3KZA8**

Repair Putties



EA 3473 Fast Set Steel Putty
No. 2TKP9



Fixmaster 2000° Putty
No. 2TKR6



EA 3463 Metal Magic Steel™ Stick
No. 5TT85



WaterWeld
No. 2UV86



Wood Restore™
No. 39F873



Vinyl And Leather Adhesive
No. 3EHR9

LOCTITE®

EA 3463 Metal Magic Steel™—Seals pipes, gas tanks, water tanks, and vessels. Epoxy stick can be kneaded.

EA 3471 Steel Putty—Steel-filled, nonsagging epoxy bonds to stainless steel, concrete, cast-iron, and other metals.

EA 3472 Steel Liquid—Steel-filled, pourable epoxy bonds to steel, cast-iron, stainless steel, and concrete.

EA 3473 Fast-Set Steel Putty—Trowelable putty sets quickly and is machinable when cured.

EA 3476 Stainless Steel Putty—Trowelable putty matches the thermal expansion coefficient of stainless steel.

EA 3478 Superior Metal—Renews and protects surfaces from corrosion and abrasion in harsh environments. Use on fuel and gas tanks, pipes, and elbows.

PC 7254 Aluminum Putty—Trowelable epoxy can be machined when cured.

Fixmaster 2000°F Putty—Trowelable, machinable putty fills and restores damaged and cracked metal.

J-B WELD®

SteelStik—Hand-kneadable and steel-reinforced putty. Requires no tools or prep time. Makes permanent repairs on wet and dry surfaces.

Waterweld—Hand-kneadable. Cures under water. For metal, plastics, and composites. Safe for use with PVC plumbing and potable water contact.

PlasticWeld—Drinking water-safe adhesive bonds to ABS, PVC, and CPVC. Rebuild automotive trim, fiberglass parts, and vinyl siding. Waterproof.

KwikWood™ Epoxy Putty—Repairs and rebuilds damaged, missing, and rotted wood quickly.

Wood Restore™ Repair Putty—Easy-to-sand putty fills cracks and voids in wood and can be painted in 1 hr. Use indoors or out.

PC PRODUCTS

PC-Plumbing®—For sealing plumbing components with potable water contact. Cures wet or dry. Waterproof after cured. Use on PVC, ABS, stainless steel, copper, galvanized, black pipes, and tubing.

SUPER GLUE®

Steel Repair and Filler—Repairs holes and cracks. Can be drilled, filed, or sanded after curing. Resists boiling water, oil, and gasoline.

Vinyl and Leather Adhesive—Remains clear and flexible after curing.

HERCULES®

Mixes quickly and easily to form a permanent bond in 20 min. Adheres to almost all surfaces including metals, masonry, wood, glass, ceramic, and some plastics.

Description	Type	Color	Temp. Range	Shear Strength	Work Life	Functional Cure	Size	Mfr. Model	Item No.
Loctite									
EA 3463 Metal Magic Steel	Steel Filled, in Stick Form	Gray	Up to 250° F	2500 psi	3 min.	10 min.	4 oz.	209681	**5TT85** †
EA 3471 Steel Putty	Steel Filled, Non-Slumping	Gray	Up to 225°F	4900 psi	30 min.	6 hr.	1 lb.	219292	**5TT87**
EA 3472 Steel Liquid	Steel Filled, Self-Leveling	Gray	Up to 225°F	6000 psi	25 min.	6 hr.	1 lb.	235617	**5TT82**
		Gray	Up to 225°F	6000 psi	25 min.	6 hr.	4 lb.	235618	**2TKP7**
EA 3473 Fast Set Steel Putty	Steel Filled, Non-Slumping, Faster Setting	Gray	Up to 200° F	4600 psi	3 min.	10 min.	1 lb.	219293	**2TKP9**
EA 3476 Stainless Steel Putty	Stainless Steel Filled, Non-Rusting, Non-Slumping	Gray	Up to 225°F	4600 psi	20 min.	6 hr.	1 lb.	235613	**2TKP8**
EA 3478 Superior Metal	Ferro-Silicone Filled, High Strength and Wear Resistance	Dark Gray	Up to 250°F	5500 psi	20 min.	6 hr.	1 lb.	209822	**5TT81**
PC 7254 Aluminum Putty	Aluminum Filled, Non-Slumping	Aluminum	Up to 200°F	4000 psi	20 min.	6 hr.	1 lb.	235615	**5TT80**
Fixmaster 2000° Putty	High Temperature	Gray	Up to 2000°F	675 psi	30 min.	7 hr.	8 oz.	235579	**2TKR6**
J-B Weld									
SteelStik	Waterproof, Petro, Chemical, and Acid Resistant	Gray	Up to 300°F	1000 psi	5 min.	30 min.	2 oz.	8267-S	**2UV84**
Waterweld	Underwater, Petro, Chemical, and Acid Resistant	Off-White	Up to 250°F	700 psi	2 min.	20 min.	2 oz.	8277	**2UV86**
PlasticWeld		Off-White	—	—	25 min.	3 hr.	2.00 oz.	8237	**6UEL5**
KwikWood™ Epoxy Putty	Solvent Free, 1 Part	Tan	—	500 psi	15 min.	60 min.	1 oz.	8257	**5DFV1**
Wood Restore™	Wood Restore	Taupe	—	—	—	1 hr.	12 oz.	40003	**39F873**
		Taupe	—	—	—	1 hr.	32 oz.	40004	**39F874**
PC Products									
PC-Plumbing®	Hand Moldable, 2-Part Epoxy	Gray	-20 to 250°F	900 psi	3 min.	60 min.	2 oz.	025598	**4AUX2** †
		Gray	-20° to 250° F	900 psi	3 min.	60 min.	4 oz.	045596	**4AUX3** †
Super Glue									
Steel Repair And Filler	Steel Repair Cement	Gray	25 to 200°F	—	10 min.	24 hr.	1 fl. oz.	T-SR48	**3EHR8**
Vinyl And Leather Adhesive	Vinyl Adhesive, Stays Flexible	Clear	40 to 150°F	—	10 min.	24 hr.	1 fl. oz.	T-VL48	**3EHR9**
Hercules									
Proproxy™ 20	Fast Acting	Dark Gray/Black	—	700 psi	—	20 Minutes	4 oz.	25515C	**5KAV9**

† NSF 61 Certified.

LOCTITE®

Wear-Resistant Coating Kits

Protect equipment from harsh industrial environments. Provide max. operating temp., compression strength, work time, and functional cure. Ideal for large-scale repairs. All include resin and hardener. Gray color.

Description	Type	Mixing Ratio	Work Life	Full Cure	Temp. Range (F)	Compressive Strength (psi)	Mfr. Model	Item No.
Epoxy Adhesive, 3 lb.	Fine Particle Abrasion	4:1	30 min.	6 hr.	-65° to 250°	15,000	209824	**2TUP6**
Epoxy Adhesive, 6 lb.	Fast Cure	2:1	10 min.	3 hr.	-65° to 225°	12,000	235598	**2TUP9**
Epoxy Adhesive, 25 lb.	Fine Particle Abrasion	4:1	30 min.	6 hr.	-65° to 250°	15,000	209676	**2TUP7**
Epoxy Adhesive, 25 lb.	High-Temperature	4:1	30 min.	Heat Cure	-65° to 450°	15,000	235622	**2TUP8**



No. 2TUP6

LOCTITE®

Nordbak® Brushable Ceramic

This epoxy brushes on to form an ultra-smooth, high-gloss, corrosion-resistant finish that minimizes friction. Protects against turbulence, abrasion, and cavitation. Can also be used as a top coat over Loctite® Nordbak® wearing compounds for surface rebuilding and lasting protection. Gray color.

Mixing Ratio	Work Life	Functional Cure	Temp. Range	Shear Strength	Mfr. Model	Item No.
2.75:1	30 min.	6 hr.	Up to 200°F	12,500 psi	209826	**5TT84**



Belt/Rubber Repair and Etching/Cleaning Solutions

LOCTITE®

- Up to 180°F

URETHANE BELT REPAIR

Abrasion-, corrosion-, and impact-resistant products repair conveyor belts and damaged rubber equipment. Nonshrinking and completely unaffected by oil, grease, and water.

MR Flex 80™ Putty Pourable Repair Compound—Rebuilds and repairs rubber parts and lines in pumps. Trowelable, 2-part putty bonds to metal, concrete, rubber, and some plastics.

MR Flex 80™ Liquid Repair Compound—Castable, 2-part urethane makes molds, fixtures, and expansion joints. Use for nonscratching holding fixtures.

Fixmaster® Rapid Rubber Repair Urethane—Premium-quality belt repair for damaged rubber equipment. Quickly and easily repairs with the same durability and flexibility as the belt.

ETCHING AND CLEANING SOLUTIONS

For use with Rapid Rubber Repair No. 2WKR2. SS FM Etching Agent Activator etches surfaces for better bonding of urethanes. SF 8220 Flex™ Cleaner is a colorless liquid designed to thoroughly clean rubber, urethane, or metal surfaces before cleaning. Nontoxic formula dries quickly and leaves no residue. One-component liquid cures at room temperature and requires no mixing.



MR Flex 80 Liquid Repair Compound No. 5TT77



Fixmaster Rapid Rubber Repair Urethane No. 2WKR2



SF FM Etching Agent Activator No. 2WKP8

Description	Type	Mixing Ratio	Work Life	Functional Cure	Tensile Strength	Size	Mfr. Model	Item No.
Urethane Belt Repair								
MR Flex 80 Putty Pourable Repair Compound	Trowelable, Corrosion and Impact Resistant	100:40	10 min.	8 hr.	1500 psi	1 lb.	209821	**5TT78**
MR Flex 80 Liquid Repair Compound	Ideal for Casting Molds, Fixtures, and Parts	100:13.3	20 min.	8 hr.	1800 psi	1 lb.	209820	**5TT77**
Fixmaster Rapid Rubber Repair Urethane	To Repair Conveyor Belts and Line Pumps	1:1	1 min.	2 hr.	1300 psi	400mL	428557	**2WKR2**
Etching and Cleaning Solutions								
SF FM Etching Agent Activator, 3-fl. oz. Bottle, Enhances Bonds to Rubber							235638	**2WKP8**
SF 8220 Flex Cleaner, 4-fl. oz. Can, Cleans and Primes Surfaces							233307	**2WKP9**

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

Threadlocker Guide

Threadlockers significantly increase the reliability of threaded fasteners. Liquid fills gaps between threads to help form solid, unitized assemblies. They help prevent fasteners from loosening due to vibration and protect against rust and corrosion. Depending on the formula, threadlockers can be primerless and oil tolerant.

Color	Strength Level	Disassembly	Removable With	Full Cure Time	Optium Temp. Ranges	For Fastener Diameter
Purple	Low	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ¼" (6mm)
Green	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ½" (12mm)
Blue	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	¼" to ¾" (6mm to 22mm)
Red	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 550°F	Up to ½" (36mm)
Black	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 300°F	Larger than ⅞"

*No threadlocker is permanent. High strength can be removed using standard hand tools following direct exposure to temperatures of 450°F.



Purple
No. 2VZC3



Blue
No. 5HYH7



Green
No. 49CF71



Red
No. 49CF49



Plastic Fastener
No. 2VZD1



Stick
No. 3UU58



Tape
No. 5HYJ1

LOCTITE® Vibra-TITE®

Threadlockers

Primerless Threadlockers—Allow you to apply threadlocking material without using priming activators.

Threadlockers—Help prevent damage to fasteners by sealing air gaps to stop fasteners from loosening. Primers are often suggested when using threadlockers to help increase adhesion to fasteners. For a selection of primers, see page 2223.

Wicking-Grade Threadlockers—Ideal for threaded assemblies, these low viscosity threadlockers flow or wick themselves onto threads. Meet MIL-S-46163A for existing designs. No. 49CF71 also meets ASTM D 5363 for new design.

HIGH LUBRICITY

High-strength formula with increased lubricity reduces friction and achieves proper clamp load, even when exposed to vibration. Use for permanent applications on large metal fasteners over ⅞" dia.

PLASTIC FASTENER

Low-strength and fast-curing threadocker can be used as a tamperproofing agent for screw heads.

STICK

Semisolid stick formula won't spill or leak.

TAPE

Offers convenience with no mess. Works with 3 wraps on threaded bolts every time.

Threadlocker Color	Threadlocker Classification	Size	Threadlocker Container	Begins to Harden	Series	Temp. Range	Brand	Item No.
Low-Strength								
Purple	Threadlocker	0.5 mL	Capsule	10 min	222	-65° to 300°F	Loctite	**2VZC3**
		10 mL	Bottle	20 min	222MS	-65° to 300°F	Loctite	**5E212**
		50 mL	Bottle	10 min	222MS	-65° to 300°F	Loctite	**5E213**
		250 mL	Bottle	4 min	111	-60° to 300°F	Vibra-Tite	**49CE74**
Medium-Strength								
Blue	Primerless Threadlocker	10 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH7**
		50 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH5**
		250 mL	Bottle	4 min	122	-60° to 300°F	Vibra-Tite	**49CF38**
	Threadlocker	0.5 mL	Capsule	5 min	242	-65° to 300°F	Loctite	**2VZC4**
		10 mL	Bottle	5 min	242	-65° to 300°F	Loctite	**5A228**
		50 mL	Bottle	5 min	242	-65° to 300°F	Loctite	**2A269**
		250 mL	Bottle	4 min	121	-60° to 300°F	Vibra-Tite	**49CJ64**
Green	Wicking Grade Threadlocker	10 mL	Bottle	20 min	290	-65° to 300°F	Loctite	**5E216**
		50 mL	Bottle	20 min	290	-65° to 300°F	Loctite	**5E217**
		250 mL	Bottle	4 min	150	-60° to 300°F	Vibra-Tite	**49CF71**
Medium-Strength, Removable With Hand Tools								
Blue	Primerless Threadlocker	250 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH6**
	Threadlocker	250 mL	Bottle	10 min	242	-65° to 300°F	Loctite	**4KL40**
High-Strength								
Red	Primerless Threadlocker	10 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYH9**
		50 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYJ0**
	Threadlocker	0.5 mL	Capsule	10 min	262	-65° to 300°F	Loctite	**2VZC6**
		0.5 mL	Capsule	10 min	271	-65° to 300°F	Loctite	**2VZC7**
		10 mL	Bottle	4 min	2760	-65° to 300°F	Loctite	**1LLP8**
		10 mL	Bottle	10 min	262	-65° to 300°F	Loctite	**5E214**
		10 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**5A230**
		10 mL	Bottle	60 min	277	-65° to 300°F	Loctite	**3KE48**
		50 mL	Bottle	10 min	262	-65° to 300°F	Loctite	**5E215**
		50 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**5A231**
		50 mL	Bottle	60 min	272	-65° to 450°F	Loctite	**4KL51**
		50 mL	Bottle	60 min	277	-65° to 300°F	Loctite	**3KE49**
		250 mL	Bottle	4 min	131	-60° to 300°F	Vibra-Tite	**49CF49**
		250 mL	Bottle	9 min	140	-60° to 300°F	Vibra-Tite	**49CF63**
		250 mL	Bottle	9 min	137	-60° to 450°F	Vibra-Tite	**49CF57**
		250 mL	Bottle	9 min	146	-60° to 300°F	Vibra-Tite	**49CF66**
High-Strength, Removable With Heat and Hand Tools								
Red	Primerless Threadlocker	250 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYH8**
	Threadlocker	250 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**4KL50**
		250 mL	Bottle	60 min	272	-65° to 450°F	Loctite	**4KL52**
High Lubricity Threadlocker								
Black	High Lubricity Threadlocker	50 mL	Bottle	90 min	2047	-65° to 300°F	Loctite	**19L453**
Plastic Fastener Threadlocker								
Blue	Plastic Fastener Threadlocker	0.7 oz	Bottle	1.5 min	425	-65° to 180°F	Loctite	**2VZD1**
Stick Threadlocker								
Blue	Threadlocker	0.32 oz	Stick	5 min	248	-65° to 300°F	Loctite	**3UU58**
		0.67 oz	Stick	5 min	248	-65° to 300°F	Loctite	**3UU52**
Red		0.32 oz	Stick	5 min	268	-65° to 300°F	Loctite	**3UU56**
		0.67 oz	Stick	5 min	268	-65° to 300°F	Loctite	**3UU57**
Threadlocker Tape								
		Medium-Strength, ½ in W x 260 in L					Loctite	**5HYJ1**

LOCTITE

Retaining Compounds

Retaining compounds fill the space between parts to hold them in place with a high-strength bond. They harden in the absence of air (called anaerobic adhesives). Full cure in 24 hr.

Low-Viscosity—Bond rigid metal assemblies. Fixture in 10 min. Agency approvals: CFIA, MIL-R-46082B for existing designs, ASTMD-5363 for new designs.

High-Temperature—High-viscosity for repairing valve sleeves, retaining valve seats, and affixing cylindrical liners. Fixture in 30 min. CFIA listed.

Note: Require a secondary heat cure at 356°F (180°C) to generate high-temp. resistance.

High-Strength—Room temp.-curing adhesives are for pulleys, cams, flywheels, and rotor-to-shaft bonds. Fixture in 10 min. NSF/ANSI-61 certified, ABS approved, and CFIA listed.

Specialty—Nonrun paste fills metal surface imperfections and repairs worn areas to keep machinery running. Repairs worn shafts, splines, keyways, and housings. Fixtures in 20 min. CFIA listed.



Loctite® 609™
No. 4KM29



Loctite® 660™
No. 5E227

Description	Shear Strength (psi)	Filling Gap Size	Max. Temp. (°F)	10mL Item No.	50mL Item No.	250mL Item No.
Low-Viscosity						
Loctite® 609™	2300	Up to 0.006"	300°	4KM29	4KM30	—
High-Temperature						
Loctite® 620™	3800	Up to 0.015"	450°	4KM32	4KM33	4KM34
High-Strength						
Loctite® 680™	4000	Up to 0.015"	300°	4KM40	—	3KE51

Trade Name	Shear Strength (psi)	Filling Gap Size	Max. Temp. (°F)	Size	Item No.
Specialty					
Loctite® 660™	3335	Up to 0.020"	300°	6ml	2TRL2
				50ml	5E227

Vibra-TITE LOCTITE

Devcon 3M

Primers, Activators, and Accelerators

Anaerobic adhesives cure in the absence of air and in the presence of metal ions. When assembling inactive metal parts, which are low in metal ions, primers are recommended to ensure proper adhesion. Use with anaerobic threadlockers, retaining compounds, pipe sealants, and gasketing materials.

Primer Is Recommended for Inactive Metals	Primer Is Optional for Active Metals
Aluminum - Anodized (Alodine®, Irridite®) and Pure, Black Oxide - Natural or Chemical, Cadmium, Gold, Iconel®, Magnesium, Plated Parts, Silver, Stainless Steel, Steel - Galvanized and Magnetite, Titanium, and Zinc	Brass, Bronze, Copper, Iron, Kovar®, Manganese, Monel®, Nickel, and Plain Steel



No. 6V556



No. 2VRL9



No. 2VFK6



No. 2JCA4



No. 49CH77

Description	For Use With	Type	Size	Dry Time	Viscosity	Color	Brand	Mfr. Model	Item No.
Primers									
61100	Anaerobics Adhesives	Acetone-Based	1 gal. Can	30 to 70 sec.	2 cps	Light Green	Vibra-Tite	61100	**49CH60**
61102	Anaerobics Adhesives	Acetone-Based	2 oz. Can	30 to 70 sec.	2 cps	Light Green	Vibra-Tite	61102	**49CH61**
61108	Anaerobics Adhesives	Acetone-Based	8 oz. Can	30 to 70 sec.	2 cps	Light Green	Vibra-Tite	61108	**49CH62**
61202	Anaerobics Adhesives	Acetone/Isopropanol-Based	2 oz. Can	30 to 70 sec.	2 cps	Amber	Vibra-Tite	61202	**49CH64**
61208	Anaerobics Adhesives	Acetone/Isopropanol-Based	8 oz. Can	30 to 70 sec.	2 cps	Amber	Vibra-Tite	61208	**49CH65**
625	Cyanoacrylates	Heptane-Based	4 oz. Can	Less Than 30 Sec.	1 cps	Light Amber	Vibra-Tite	62504	**49CH80**
626	Cyanoacrylates	Acetone-Based	1 gal. Can	Less Than 30 Sec.	1 cps	Light Amber	Vibra-Tite	62600	**49CJ75**
	Cyanoacrylates	Acetone-Based	4 oz. Can	Less Than 30 Sec.	1 cps	Light Amber	Vibra-Tite	62604	**49CJ73**
	Cyanoacrylates	Acetone-Based	8 oz. Can	Less Than 30 Sec.	1 cps	Light Amber	Vibra-Tite	62608	**49CJ72**
7090	Loctite Anaerobics to Ensure The Cure of Inactive Surfaces and Speed the Cure of Machinery Adhesives.	—	1L	<10 min.	—	—	Loctite	88068	**36D061**
Flexane® FL-10 Primer	—	Promotes Adhesion to Metal Parts	4-oz. Can	—	—	Blue	Devcon	15980	**6V556**
Flexane® FL-20 Primer	—	Promotes Adhesion to Concrete, Rubber, and Wood	4-oz. Can	—	—	Orange	Devcon	15985	**6V557**
Loctite® 7088™	Anaerobics	Semisolid	17g Stick	—	Semisolid	Teal	Loctite	1069258	**2VRL9**
Loctite® 7649™	Anaerobic Adhesives	Aerosol	4.5 oz. Aerosol	—	—	—	Loctite	209715	**4KL21**
	Anaerobic Adhesives	Aerosol Can	25g Aerosol	30 to 70 sec.	1.2	Green	Loctite	231020	**2VFK7**
	Anaerobic Adhesives	—	—	—	2cP	Light Green	Loctite	135286	**4KL11**
Loctite® SF 7471™	Anaerobic Adhesives	Bottle	1.75 oz. Bottle	30 to 70 sec.	1.2	Amber	Loctite	135285	**2VFK6**
	Anaerobic Adhesives And Sealants On Inactive Metals	—	4.5 oz. Aerosol	—	—	—	Loctite	135337	**3HV17**
Loctite® SF 770	Cyanoacrylate Adhesives	Heptane-Based	1.75 fl. oz. Bottle	30 Sec.	1.25	Clear	Loctite	135266	**2VFK5**
Safety Walk Primer	3M™ Safety-Walk™ Slip-Resistant Tapes and Treads	Solvent-Bsed	1 qt.	—	900 - 1500cp	—	3M	19339	**21YT80**

Description	Size	Color	Brand	Mfr. Model	Item No.
Activators					
7387™, For use with Depend Adhesive	4.5-oz. Aerosol	Light Brown	Loctite	209714	**2VFK4**
	1.75-oz. Bottle	Light Brown	Loctite	135276	**2VFK3**
Fastbond™ 2000 NF	5 gal.	Translucent	3M	1	**2JBR3**
	1L	Translucent	3M	1	**2JCA4**
	32 oz.	Translucent	3M	56533	**2JCA3**

Type	Viscosity	Size	On-Part Life	Color	Brand	Mfr. Model	Item No.
Accelerators							
Acetone-Based	0.4	1.75 fl. oz. Spray	—	Clear	Loctite	229769	**2VFK1**
	0.4cP	1.75 fl. oz. Bottle	24 hr.	Clear	Loctite	135294	**19TT66**
Heptane-Based	1 cps	2 oz. Can	1 min.	Light Amber	Vibra-Tite	62302	**49CH71**
	1 cps	2 oz. Can	24 hr.	Clear	Vibra-Tite	62102	**49CH67**
	1 cps	4 oz. Can	1 min.	Light Amber	Vibra-Tite	62304	**49CH72**
	1 cps	4 oz. Can	24 hr.	Clear	Vibra-Tite	62104	**49CH68**
	1 cps	8 oz. Can	1 min.	Light Amber	Vibra-Tite	62308	**49CH73**
	1 cps	8 oz. Can	24 hr.	Clear	Vibra-Tite	62108	**49CH69**
Isopropanol-Based	1	0.7 fl. oz. Spray	—	Clear	Loctite	229783	**2VFJ9**
	1	1.75 fl. oz. Bottle	—	Clear	Loctite	135316	**2VFJ8**
	1 cps	2 oz. Can	1 min.	Light Amber	Vibra-Tite	62402	**49CH75**
	1 cps	4 oz. Can	1 min.	Light Amber	Vibra-Tite	62404	**49CH76**
	1 cps	8 oz. Can	1 min.	Light Amber	Vibra-Tite	62408	**49CH77**



RectorSeal® #5
No. 4YRV9



Slic-tite® Paste w/PTFE
No. 2F896



561™ Thread Sealant Stick
No. 3UU53



Pipe Thread Repair Kit
No. 4KM86

Vibra-TITE LOCTITE Permatex RECTORSEAL LA-CO

Pipe Thread Sealants and Repair Kits

THREAD SEALANT

Anaerobic thread sealants are applied to a metal fastener and installed into a metal assembly. In the absence of air and the presence of active metals, the anaerobic compound will cure into a thermoset plastic, thus locking and sealing the fastener in place.

REFRIGERANT PIPE SEALANT

Refrigerant Pipe Sealant has excellent solvent resistance on threaded fittings and pipes up to 3" dia. It has good chemical resistance and is recommended for refrigeration systems and service with aggressive chemicals.

PIPE THREAD SEALANT

Seal threaded pipe fittings propery and block the leak path along the threads. Help make sure pipe joints are pressure-tight and waterproof.

PIPE THREAD REPAIR KITS

Make permanent repairs to stripped, threaded assemblies in 5 min. Allow up to 1538 in.-lb. torque on a 1" bolt. Resist most shop fluids.

PIPE JOINT COMPOUND

Pliable compound seals oily fittings and resists loosening by thermal expansion. Use on water, steam, oil, and fuel lines.

Size	Container Type	Chemical Type	Strength	Color	Gas Pressure Range	Liquid Pressure Range	Full Cure	Begins to Harden	Application Temp. Range	Brand	Item No.
Thread Sealant											
50mL	Bottle	Anaerobic	High	Brown	—	—	24 hr.	—	72°F	Vibra-Tite	**49CH21**
	Tube	Anaerobic	Medium	Yellow	—	—	72 hr.	—	72°F	Vibra-Tite	**49CH13**
	Tube	Methacrylate Ester	Low	White	10,000 psi	—	24 hr.	—	72°F	Loctite	**4KM15**
250mL	Bottle	Anaerobic	High	Purple	—	—	24 hr.	—	72°F	Vibra-Tite	**49CH16**
	Tube	Anaerobic	High	White	—	—	24 hr.	—	72°F	Vibra-Tite	**49CH29**
Refrigerant Pipe Sealant											
10mL	Bottle	Methacrylate Ester	High	Red	10,000 psi	—	—	—	72°F	Loctite	**1YDZ3**
Pipe Thread Sealant											
1L	Bottle	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr.	—	72°F	Loctite	**6KXK4**
4 oz.	Brush Top Can	Polymeric Material	—	White	—	—	—	—	—	Permatex	**3DPR7**
	Can	—	—	Yellow	2600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRV8**
	Can	PTFE	—	Blue	2000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRW8**
8 oz.	Can	—	—	Yellow	2600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRV9**
	Can	PTFE	—	White	2000 psi	10,000 psi	Non Setting Immediate Test	—	20° to 140°F	Rectorseal	**4YRW6**
	Can	PTFE	—	Blue	2000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRW9**
	Plastic Bottle With Brush Cap	PTFE	—	White	3000 psi	10,000 psi	Soft Set Compound	Seals within 2 min.	-50° to 500°F	La-Co	**2F896**
16 oz.	—	—	—	Black	—	—	Varies	Limitless	—	Rectorseal	**46F524**
	Brush Top Can	Proprietary Polymeric Material Containing Dispersed PTFE and Isopropyl Alcohol	—	White	—	—	Remains Tacky	—	72°F	Loctite	**16NH11**
	Brush Top Can	PTFE	—	White	—	—	—	—	—	Permatex	**2GXY8**
	Can	—	—	Yellow	2600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRW1**
	Can	PTFE	—	White	2000 psi	10,000 psi	Non Setting Immediate Test	—	20° to 140°F	Rectorseal	**4YRW7**
	Can	PTFE	—	Blue	2000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRX1**
19g	Stick	Methacrylate Ester	Low	White	10,000 psi	—	24 hr.	—	72°F	Loctite	**3UU53**
50mL	Bottle	Methacrylate Ester	—	Purple	10,000 psi	—	—	—	72°F	Loctite	**5A237**
	Bottle	Methacrylate Ester	Low	Brown	10,000 psi	—	—	—	72°F	Loctite	**4KM18**
	Tube	—	—	White	—	—	—	—	—	Permatex	**2GXX5**
	Tube	Dimethacrylate Ester	Low	White	—	—	24 hr.	Unprimed 6-24 hr., Primed 1-3 hr.	72°F	Loctite	**12Z238**
	Tube	Dimethacrylate Ester	Medium	Yellow	10,000 psi	10,000 psi	24 hr.	30 min.	-65° to 450°F	Loctite	**49CR90**
	Tube	Dimethacrylate Ester	Medium	White	10,000 psi	—	—	24 hr.	72°F	Loctite	**4KM24** †
	Tube	Methacrylate Ester	—	Purple	10,000 psi	10,000 psi	—	—	72°F	Loctite	**6JZW3**
	Tube	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr.	30 min.	-65° to 450°F	Loctite	**49CR86**
250mL	Bottle	Methacrylate Ester	—	Purple	10,000 psi	—	24 hr.	—	72°F	Loctite	**4KM12**
	Tube	Dimethacrylate Ester	Medium	White	10,000 psi	—	—	24 hr.	72°F	Loctite	**4KM25**
	Tube	Dimethacrylate Ester	Medium	Yellow	10,000 psi	10,000 psi	24 hr.	30 min.	-65° to 450°F	Loctite	**49CR91**
	Tube	Methacrylate Ester	—	Purple	10,000 psi	10,000 psi	—	—	72°F	Loctite	**6JZW4**
	Tube	Methacrylate Ester	Low	White	10,000 psi	—	24 hr.	—	72°F	Loctite	**4KM16** †
	Tube	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr.	30 min.	-65° to 450°F	Loctite	**49CR87**
350mL	Brush Top Can	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr.	30 min.	-65° to 450°F	Loctite	**49CR88**
1¼ oz.	Paperboard Holder	PTFE	—	White	350 psi	2,000 psi	Soft Set Compound	Seals within 2 min.	0° to 350°F	La-Co	**2F892**
Pipe Sealant for Refrigeration Systems											
250mL	Bottle	Methacrylate Ester	High	Red	10,000 psi	—	—	—	72°F	Loctite	**1YDZ4**
Pipe Repair Kit											
2" x 6 ft.	—	—	—	Yellow	—	—	—	—	—	Loctite	**4KM86**
4" x 12 ft.	—	—	—	Yellow	—	—	—	—	—	Loctite	**2PAD3**
Pipe Joint Compound											
16 oz.	Bottle	Polymerized Vegetable Oil	—	Black	—	—	—	—	—	Permatex	**3DPR1**

† UL Approved.

3M | GORILLA | LOCTITE | THE ORIGINAL SUPER GLUE | Vibra-TITE

Super Glue Instant Adhesives

- "Multipurpose" items fill gaps up to 0.004"
- "Toughened" items provide increased impact and shear strength
- "Gap-Filling" set slowly, allowing adjustment and filling up to 0.008"
- "Close-Fitting Parts" are solvent-free with high tensile and shear strengths for tight tolerance
- "Porous Surfaces" bond a wide range of uneven and absorbent substrates

Instant adhesives provide very strong bonds and start curing almost immediately.

Trade Name	Size	Description	Gap Fill	Viscosity	Temp. Range	Item No.	Pkg. Qty.
3M							
Scotch-Weld SI100	0.7 oz.	Multipurpose	—	80 to 120 cPs	-65° to 180°F	**29UJ23**	1
Gorilla Glue							
Brush & Nozzle	10g	Multipurpose	—	—	-65° to 180°F	**49UU19**	1
Loctite							
380™	3g	Toughened, for Close-Fitting Parts	0.006"	300 cPs	-65° to 225°F	**3KE57**	1
	1 oz.		0.006"	200 cPs	-65° to 225°F	**5E211**	1
382™	20g	Gap-Filling, Ultra-Performance Wire Tacking	0.008"	5000 cPs	-65° to 210°F	**2VFH7**	1
401™	3g	Multipurpose, Surface-Insensitive	0.005"	90 cPs	-65° to 250°F	**2VFG1**	1
	20g		0.005"	90 cPs	-65° to 250°F	**2VFG2**	1
403™	20g	Gap-Filling, Low Odor/Low Bloom, Surface-Insensitive	0.008"	1200 cPs	-65° to 200°F	**5XB48**	1
404®	⅓ oz.	Rubber O-Ring Bonder	0.005"	80 cPs	-65° to 180°F	**5E205**	1
	4 oz.	Rubber Bonder	0.005"	80 cPs	-65° to 180°F	**36D059**	1
406™	3g	Wicking Grade, Surface-Insensitive	0.004"	20 cPs	-65° to 250°F	**2VFG3**	1
409™	3g	Multipurpose	0.010"	Gel	-65° to 180°F	**2VFH8**	1
	20g		0.010"	Gel	-65° to 180°F	**5E210**	1
410™	20g	Gap-Filling, Toughened	0.008"	3500 cPs	-65° to 225°F	**2VFG8**	1
	3g		0.008"	3500 cPs	-65° to 225°F	**2VFG7**	1
411™	20g		0.008"	5000 cPs	-65° to 210°F	**4KL81**	1
414™	3g	Multipurpose, for Plastics	0.006"	110 cPs	-65° to 180°F	**2VFH9**	1
	1 oz.		0.006"	110 cPs	-65° to 180°F	**5E207**	1
415™	1 oz.	Gap-Filling, for Metals	0.008"	1500 cPs	-65° to 180°F	**2VFJ1**	1
416™	1 oz.	Gap-Filling, for Plastics	0.008"	1500 cPs	-65° to 180°F	**5E208**	1
420™	1 oz.	Wicking Grade, for Plastics	0.002"	2 cPs	-65° to 180°F	**4KL86**	1
426™	20g	Toughened, for Porous Surfaces	0.010"	Gel	-65° to 210°F	**2VFH1**	1
	10g		0.010"	Gel	-65° to 210°F	**2VFG9**	1
430™	3g	For Close-Fitting Metal Parts	0.005"	80 cPs	-65° to 180°F	**4XZ71**	1
	1 oz.		0.005"	80 cPs	-65° to 180°F	**5E206**	1
431™	20g	Gap-Filling, High Viscosity	0.008"	1000 cPs	-65° to 180°F	**3CHD7**	1
435™	20g	Surface-Insensitive, High Peel Strength	—	175 cPs	-65° to 225°F	**3CHD5**	1
444™	20g	Wire Tacking	0.007"	700 cPs	-65° to 180°F	**4KK94**	1
	20g		0.007"	700 cPs	-65° to 180°F	**2VFJ2**	1
454™	3g	Multipurpose, Porous Surface	0.010"	Gel	-65° to 250°F	**5A232**	1
	0.14 oz.		0.010"	Gel	-65° to 250°F	**1LLR6**	1
	10g		0.010"	Gel	-65° to 250°F	**5XB52**	1
	20g		0.010"	Gel	-65° to 250°F	**5A233**	1
	30g		0.010"	Gel	-65° to 180°F	**6JZX0**	1
	200g	Multipurpose, for Porous Surfaces	0.010"	Gel	-65° to 250°F	**4KL94**	1
455™	10g	Low Odor/Low Bloom Gel, for Porous Surfaces	0.010"	Gel	-65° to 200°F	**2VFG4**	1
	200g		0.010"	Gel	-65° to 200°F	**4KK97**	1
460™	20g	Low Odor/Low Bloom, for Close-Fitting Parts, Surface-Insensitive	0.004"	45 cPs	-65° to 200°F	**4KL96**	1
480™	20g	Fast-Setting, Toughened	0.006"	200 cPs	-65° to 180°F	**2VFH2**	1
493™	1 oz.	Wicking Grade, for Metals	0.002"	2 cPs	-65° to 180°F	**2VFJ3**	1
495™	3g	Multipurpose	0.004"	45 cPs	-65° to 250°F	**5E355**	1
	1 oz.		0.004"	45 cPs	-65° to 250°F	**4KM01**	1
496™	1 oz.	Multipurpose, for Rubber	0.006"	125 cPs	-65° to 180°F	**2VFJ5**	1
498	1 oz.	Thermal Cycling, Medium Viscosity	0.007"	500 cPs	-65° to 180°F	**2VFJ6**	1
499™	10g	Thermal Cycling	0.010"	Gel	-65° to 200°F	**2VFJ7**	1
4203™	20g	Thermally Resistant, for Close-Fitting Parts	0.005"	375 cPs	-65° to 250°F	**2VFH3**	1
4204™	20g	Gap-Filling, Thermally Resistant, Toughened	0.008"	4000 cPs	-65° to 250°F	**2VFH4**	1
4471™	20g	Fast Cure, for Porous Surfaces	0.007"	600 cPs	-65° to 180°F	**4KL92**	1
7452™	0.7 fl. oz. Spray	Acetone-Based	—	0.4 cPs	—	**5XB49**	1
Super Glue							
ACCUTOOL	5g	Super Glue with Precision Applicator	0.005"	100 cPs	-65° to 180°F	**3EHP2**	1
	5g		0.020"	Gel	-65° to 180°F	**3EHP4**	1
Future Glue	2g	Porous Surfaces, Close-Fitting Parts, Toughened	0.005"	100 cPs	-65° to 180°F	**3EHP6**	1
	2g	Gap-Filling, Porous Surfaces	0.020"	Gel	-65° to 180°F	**3EHP7**	1
	5g	Porous Surfaces, Close-Fitting Parts, Toughened	0.005"	100 cPs	-65° to 180°F	**3EHP8**	1
Super Glue	2g	Multipurpose	0.020"	Gel	-65° to 180°F	**3EHR1**	3
	2g		0.020"	Gel	-65° to 180°F	**3EHP5**	12
The Original Super Glue	0.5g		0.004"	40 cPs	-65° to 180°F	**5DLE1**	5
	2g		0.004"	40 cPs	-65° to 180°F	**3EHP9**	4
	2g		0.004"	40 cPs	-65° to 180°F	**3EHP3**	12
	20g		0.004"	40 cPs	-65° to 180°F	**3EHP1**	1
Vibra-Tite							
320	1 oz.	Wicking, Bonds Plastic	0.002"	1 to 3 cPs	0° to 200°F	**49CG09**	1
322	1 lb.	Gap Fill, Bonds Plastic	0.008"	1500 to 2100 cPs	0° to 200°F	**49CG15**	1
330	1 oz.	Metal & Rubber Bonder	0.006"	123 to 127 cPs	0° to 280°F	**49CG18**	1



No. 29UJ23



No. 49UU19



No. 5XB48



No. 1LLR6



No. 6JZX0



No. 5E355



No. 5XB49



No. 3EHP2



No. 49CG15



No. 49CG18



Gasket Sealant No. 13P428



RTV Silicone Sealant No. 2YE19



732 Multipurpose Sealant No. 53DA94



SI 596 Adhesive Sealant No. 1TDX5



RTV Silicone Sealant No. 2GXY5

Anaerobic-, Poly-, Silicone-, and Solvent-Based Sealants

Anaerobic-Based Flange—Rigid gasketing material remains liquid when exposed to air, but cures to a solid bond when confined between 2 mating flanges. For rigid flanges.

Polyurethane-Based—Sealant won't harden or set, even at very high temperatures.

Silicone-Based—Highly flexible adhesive offers excellent weatherability, fluid and temperature resistance to meet key industry specifications.

Solvent-Based—Generally used as a gasket dressing to fill voids between a cut gasket and the parts being sealed.

Description	Type	Color	Size	Temp. Range	Full Cure	Mfr. Model	Item No.	
Anaerobic-Based Flange Sealants								
Loctite								
510™ Anaerobic Flange Sealant	Anaerobic	Red	50mL	-65 to 400°F	4 hr	135474	**12Z232**	
		Red	250mL	-65 to 400°F	4 hr	234225	**12Z242**	
5127™ Anaerobic Gasket Sealant		Blue	300mL	-65 to 300°F	24 hr	229501	**12Z236**	
515™ Anaerobic Flange Sealant	Flexible Seal	Purple	50mL	-65 to 300°F	24 hr	135479	**5E226**	
		Purple	300mL	-65 to 300°F	24 hr	88541	**4KM09**	
Loctite 518 Flange Sealant	Anaerobic	Red	50mL	-65 to 300°F	4 hr	2096064	**49CR93**	
Polyurethane-Based Sealants								
Hylomar								
Gasket Sealant	Adhesive/Sealant	Blue	80mL	-50 to 250°C	Remains Tacky	HUBR02	**13P427**	
		Blue	200mL	-50 to 250°C	Remains Tacky	HUBRA01	**13P428**	
	Nonsetting NonHardening	Blue	100 g	-58 to 572°F	Remains Tacky	HUB003	**2VUV1**	
		Blue	350 g	-58 to 572°F	Remains Tacky	HUB005	**2VUV5**	
	Nonsetting NonHardening High Temp	Blue	250mL	-58 to 662°F	Remains Tacky	HUBA02	**2VUV6**	
		Blue	350 g	-58 to 662°F	Remains Tacky	HUBA4	**2VUV4**	
Silicone-Based Sealants								
Anti-Seize Technology								
AST-RTV™ Silicone Sealant	High Temperature	Red	8 oz	-85 to 600°F	24 hr	27085	**5E144**	†
	Multipurpose	Black	8 oz	-85 to 450°F	24 hr	27088	**34D504**	
		Clear	8 oz	-75 to 450°F	24 hr	27086	**5E145**	†
		Silver	8 oz	-85 to 450°F	24 hr	27089	**4UJ99**	
	Multipurpose, Pressurized Can	White	8 oz	-75 to 450°F	24 hr	27084	**4UJ98**	†
CRC								
RTV Silicone Sealant	General Purpose	Clear	10.1 oz	-70° to 400°F	24 hr	14073	**13P450**	
	High Moisture Resistance Indoor/Outdoor	White	6.5 oz	-76 to 400°F	24 hr	14056	**2YE20**	
	High Temp. Low Odor	Red	6.5 oz	-80 to 500°F	24 hr	14059	**2YE21**	
	Multipurpose	Clear	6.5 oz	-76 to 400°F	24 hr	14055	**2YE19**	
Dow Corning								
732 Multipurpose Sealant	—	Black	10.1 oz	-75° to 350°F	1 day	1892011	**53DA94**	
		Clear	3.0 oz	-75° to 350°F	1 day	3138356	**53DC08**	
		White	10.1 oz	-75° to 350°F	1 day	1892118	**53DA96**	
736 Heat Resistant Sealant	Multipurpose	Red	300mL	-85° to 500°F°Continuous, 600°F Intermittent	24 hr	2086433	**53DC27**	
rtv732 Sealant	—	Clear	10.1 oz	-75° to 350°F	1 day	1892070	**53DA95**	
Loctite								
SI 587 Gasket Maker	Low Odor Noncorrosive	Blue	70mL	-75 to 500°F	24 hr	135504	**4KM22**	†
		Blue	300mL	-75 to 500°F	24 hr	234590	**4KM23**	†
SI 593 Adhesive Sealant	—	Black	80mL	-65 to 450°F	24 hr	193996	**12Z234**	
		Black	190mL	-65 to 450°F	24 hr	743519	**12Z252**	
SI 596 Adhesive Sealant	High Temp.	Red	80mL	-75 to 600°F	24 hr	135507	**5E223**	
		Red	190mL	-75 to 600°F	24 hr	743520	**1TDX5**	‡
		Red	300mL	-75 to 600°F	24 hr	198817	**4KM26**	
SI 598 Gasket Maker	—	Black	300mL	-75 to 625°F	24 hr	135508	**12Z233**	
Superflex Clear Non-Corrosive RTV Adhesive Sealant	High Performance	Black	70mL	-75 to 625°F	24 hr	234609	**12Z245**	
TEROSON SI 9160	Noncorrosive	Clear	300mL	-75 to 500°F	24 hr	234325	**12Z244**	
	High Temp. Industrial Grade	Red	10.15 oz	Up to 475°F	24 hr	475377	**3HFL1**	
Permatex								
RTV Silicone Sealant	High Temp.	Red	3 oz	-65 to 650°F	24 hr	81160	**2GXY9**	
		Red	7.25 oz	-65 to 650°F	24 hr	81915	**3DPT8**	
		Red	7.5 oz	-65 to 650°F	24 hr	85915	**3DPU7**	
	Multipurpose	Black	12.9 oz	-75 to 450°F	24 hr	81173	**3DPT1**	
		Clear	3 oz	-75 to 400°F	24 hr	80050	**2GXY5**	
Sprayon								
RTV Silicone Sealant	Mildew and Water Resistant	Black	8 oz	80 to 450°F	—	S00040000	**6KDW1**	
		Blue	8 oz	-80 to 450°F	—	S0003000	**6KDV4**	
		Clear	8 oz	80 to 450°F	—	S00010000	**6KDT3**	
Surebond								
High-Temp Red RTV Silicone Sealant	Acetoxy Cure	Red	5 gal	-62° to 650°F	24 hr	SB-200 P RE	**48LR99**	
		Red	10.3 oz	-62° to 650°F	24 hr	SB-200 T RE	**48LR98**	
SB-188 High Temperature Silicone Sealant	Cartridge	Black	10.3 oz	-75° to 500°F	1 day	SB-188 T Black	**4FFF8**	
		Clear	10.3 oz	-75° to 500°F	1 day	SB-188 T Clear	**4FFF9**	
White Lightning								
RTV Silicone Sealant	Interior/Exterior	Clear	10 oz	-49°F to 302°F	—	WL099110C	**6KHF5**	
	Tube	White	10 oz	-49° to 302°F	24 hr	WL099112W	**21C503**	
Solvent-Based Sealants								
3M								
Gasket Adhesive	Low Viscosity Neoprene	Yellow	1 qt	-30 to 300°F	24 hr	1300	**2RUE3**	
Gasket Sealant	For Rubber and Gaskets	Brown	1 qt	-40 to 180°F	24 hr	847	**5E128**	
		Brown	5 oz	-40 to 180°F	24 hr	847	**5E125**	
Loctite								
Gasket Sealant	Solvent-Based	Red	1 pt	-65 to 500°F	5 min	1540591	**12Z247**	

† USDA approved. ‡ CFIA approved.



No. 1TDX3



No. 49CE92



No. 1FBH5



No. 2PAC7



No. 2GXZ1



No. 5E220



No. 48LR95

Permatex LOCTITE Vibra-TITE DAP Pro Seal WHITE LIGHTNING SUREBOND

Gasket Sealants

Sealants indicated as Low-VOC are low-solvent formulations that release significantly fewer harmful vapors than standard adhesives. No. 1TDX3 is an odorless, solvent-free adhesive for rigid or flexible flanges. Solvent-based, paste-like sealant No. 2EMY3 sets slowly to a pliable film and is best suited for nonrigid, vibrating assemblies. Resistant to gasoline and other solvents. General purpose Superflex® RTV Silicone Sealants Nos. 3KMY7, 3KNK3, and 3KMY8 cure at room temperature to form a tough rubber seal. Will not slump in overhead or vertical applications. Withstand extreme temperature cycling, UV light, and ozone. Cannot be painted.

Description	Type	Color	Size	Temp. Range	Full Cure	Brand	Mfr. Model	Item No.
Form-A-Gasket #2	Slow Dry Flexible Cure	Black	11 oz.	-65 to 400°F	24 hr.	Permatex	80011	**2GXY1**
Gasket Maker	Instant Sealing Oil-Resistant	Black	190mL	-75 to 500°F	24 hr.	Loctite	743913	**1TDX3**
Gasket Sealant	Silicone	Black	300mL	500°F	24 hr.	Vibra-Tite	99330	**49CJ43**
		Copper	300mL	700°F	24 hr.	Vibra-Tite	99230	**49CE92**
		Gray	300mL	500°F	24 hr.	Vibra-Tite	99930	**49CJ60**
Gasket Sealant, Low-VOC	Oil-Resistant	Black	2.8 oz.	-40 to 400°F	24 hr.	DAP	00754	**3WEZ5**
Gasket Sealant, Solvent-Based	Slow Dry Flexible Cure	Black	7 oz.	-65F to 400°F	Remains Tacky	Loctite	198819	**2EMY3**
RTV Silicone Gasket Maker, Low-VOC	High Temp. Sensor-Safe	Red	3 oz.	-70 to 650°F	24 hr.	Pro Seal	80726	**1FBH5**
		Red	8 oz.	-70 to 650°F	24 hr.	Pro Seal	80729	**3HHH6**
		Red	11.1 oz.	-80 to 700°F	24 hr.	Pro Seal	80728	**1FBH9**
	Oil and Water-Resistant Noncorrosive	Gray	70mL	-75 to 625°F	24 hr.	Loctite	135275	**2PAC7**
	Oil-Resistant	Black	8 oz.	-75 to 500°F	24 hr.	Pro Seal	80049	**3HHH5**
		Black	11.1 oz.	-75 to 500°F	24 hr.	Pro Seal	80047	**1FBH8**
RTV Silicone Sealant	High Temp.	Red	11 oz.	-65 to 650°F	24 hr.	Permatex	81409	**2GXZ1**
	Increased Oil Resistance	Black	3.35 oz.	-65 to 400°F	24 hr.	Permatex	82180	**2GXZ4**
	Multipurpose	Black	10 oz.	400°F	24 hr.	White Lightning	W11125010	**48XW77**
RTV Silicone Sealant, Low-VOC	Waterproof	Clear	3 oz.	-75 to 500°F	24 hr.	Pro Seal	80066	**1FBH7**
		Clear	11.1 oz.	-75 to 500°F	24 hr.	Pro Seal	80067	**1FBJ1**
RTV Silicone Sealant, Superflex®, Low-VOC	Shrink-Resistant for Precut Gaskets	Blue	6.42 oz.	-65 to 500°F	24 hr.	Loctite	743916	**1TDX4**
		Blue	80mL	-65 to 500°F	24 hr.	Loctite	270642	**5E220**
		Blue	300mL	-65 to 500°F	24 hr.	Loctite	270639	**5E221**
RTV Silicone Sealant, Superflex RTV	General Purpose	Clear	80mL	-65 to 450°F	24 hr.	Loctite	160809	**3KMY7**
		Clear	190mL	-65 to 450°F	24 hr.	Loctite	743915	**3KNK3**
RTV Silicone Sealant, Superflex RTV, 595		Clear	300mL	-65 to 450°F	24 hr.	Loctite	193999	**3KMY8**
RTV Silicone Sealant, Thread & Gasket, Low-VOC	Acetoxy Cure	Black	10.3 oz.	-62 to - 350°F	24 hr.	Surebond	SB-160 T BL	**48LR95**
		Clear	5 gal.	-62 to - 350°F	24 hr.	Surebond	SB-160 P CL	**48LR96**
		Clear	10.3 oz.	-62 to - 350°F	24 hr.	Surebond	SB-160 T CL	**48LR91**
		Gray	10.3 oz.	-62 to - 350°F	24 hr.	Surebond	SB-160 T AL	**48LR93**
RTV Silicone Sealant, Ultra Black®, Low-VOC	Oil-Resistant	Black	3 oz.	-75 to 500°F	24 hr.	Pro Seal	80046	**1FBH4**

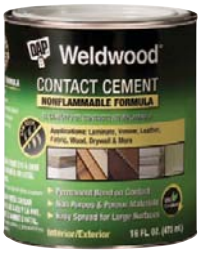


CRC

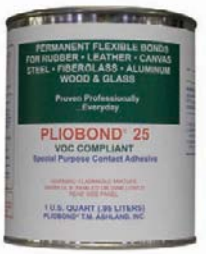
Gasket/Paint Remover

Solvent-based cleaner No. 5YK56 removes baked-on fiber gaskets, gasket adhesives, and sealants. Excellent on paint and varnish. Contains no methylene chloride. Blistered paint can be scraped off or flushed away with water, Use on brick, tile, steel, brass, chrome, porcelain, and other surfaces.

Description	Mfr. Model	Item No.
Gasket Remover	03017	**5YK56**



A.
Weldwood® Nonflammable
No. 2NJ92



I.
Pliobond 25
No. 40P231



J.
3M™ Fastbond™ 30-NF
No. 3XH48

L.
Loctite®
MR 5414
No. 12Z248





P.
Weldwood®
Multipurpose
No. 2PE38

Key	Description	VOC Levels Meet SCAQMD Requirements	Size	Brand	Item No.
Contact Cements					
A	Weldwood® Nonflammable	Meets SCAQMD Requirements	1 qt.	DAP	**2NJ92**
		Meets SCAQMD Requirements	1 gal.	DAP	**4UK99**
B	Weldwood® Original	No	1 qt.	DAP	**5E094**
		No	1 gal.	DAP	**5E095**
C	Weldwood® Bottled	No	3 oz.	DAP	**5E096**
D	Weldwood® Gel	No	1 qt.	Weldwood	**10L520**
E	DAP® Landau Top & Trim High Heat Resistant	No	1 gal.	DAP	**29RU98**
		No	5 gal.	DAP	**29RU99**
		No	5 gal.	DAP	**29RV01**
F	Acrylic Contact Cement	No	1 oz.	Super Glue	**3EHR7**
G	3M™ Neoprene 10	No	1 qt.	3M	**2RUF2**
H	3M™ Neoprene High Performance 1357	No	5 oz.	3M	**5E127**
		No	1 pt. Can	3M	**2RUF3**
		No	1 qt.	3M	**5E130**
I	Pliobond 25, Special Purpose Adhesive, 25LV	RoHS 2011/65/EU Compliant	1 qt.	Pliobond	**40P231**
		RoHS 2011/65/EU Compliant	1 gal.	Pliobond	**40P232**
		RoHS 2011/65/EU Compliant	½ pt.	Pliobond	**40P233**
		RoHS 2011/65/EU Compliant	3 oz.	Pliobond	**40P234**
	Pliobond 35, Special Purpose Adhesive, 35LV	RoHS 2011/65/EU Compliant	1 qt.	Pliobond	**40P235**
		RoHS 2011/65/EU Compliant	1 gal.	Pliobond	**40P236**
		RoHS 2011/65/EU Compliant	½ pt.	Pliobond	**40P237**
J	3M™ Fastbond™ 30-NF, Green	Meets SCAQMD Requirements	1 qt.	3M	**3XH48** †
		Meets SCAQMD Requirements	5 gal.	3M	**2JBJ3** †
	3M™ Fastbond™ 30-NF, Neutral	Meets SCAQMD Requirements	1 qt.	3M	**3XH47** †
		Meets SCAQMD Requirements	1 gal.	3M	**2JBR1** †
		Meets SCAQMD Requirements	5 gal.	3M	**2JBL8** †
K	3M™ Fastbond™ Pressure Sensitive Adhesive 85780	No	5 gal.	3M	**2JCC8**
L	Loctite MR 5414 Black Contact Adhesive	No	5 fl. oz.	Loctite	**12Z248**
Flooring Adhesives					
M	DAP® 4000® Subfloor VOC, Subfloor and Deck	Meets SCAQMD Requirements	10.3 oz.	DAP	**2PE27**
		Meets SCAQMD Requirements	28 oz.	DAP	**2PE28**
N	DAP® 7000 Subfloor and Deck	No	28 oz.	DAP	**2KVJ3**
O	DAP® 4000 Subfloor And Deck Adhesive	No	10.3 oz.	DAP	**2KVJ7**
		No	28 oz.	DAP	**2KVJ8**
P	Weldwood® Multipurpose	No	1 gal.	Weldwood	**2PE38** †‡
		No	1 qt.	Weldwood	**48TR38**
Q	Weldwood® Sheet Floor	Meets SCAQMD Requirements	1 gal.	Weldwood	**2PE45** †‡
R	Weldwood® Ceramic Tile	No	1 gal.	Weldwood	**2PE47** †‡
S	Weldwood® Wood Floor	No	1 gal.	Weldwood	**2PE43** †‡

† Nonflammable. ‡ Water-resistant.

Contact Construction Adhesives

CONTACT CEMENTS

A. Weldwood® Nonflammable— High solids polychloroprene-based, waterborne contact adhesive.

B. Weldwood® Original—A neoprene rubber that forms a permanent bond. For use with all laminate products. Adheres to wood, masonry, and most metals with no clamping required. High heat resistance.

C. Weldwood® Bottled—Strong cement bonds on contact.

D. Weldwood® Gel—Easy-to-use gel does not drip. No-mess formula is ideal for vertical and overhead surfaces. Easy spread for excellent coverage.

E. DAP® Landau Top & Trim High Heat-Resistant—Automotive interior cement adheres headliners, fabric, and other materials during refurbishment. Apply with hot or cold spray equipment.

F. Acrylic Contact Cement— Solvent-based single-component adhesive remains flexible after cure. Dries clear to light yellow in 30 min. Full cure in 24 hr. Use on tile, rubber, wood, metal, laminates, and most plastics.

G. 3M™ Neoprene Contact Adhesive 10—Air-drying neoprene adhesive bonds immediately and permanently upon contact pressure without clamping or texturizing.

H. 3M™ Neoprene High-Performance Contact Adhesive 1357—Neoprene-based brush- or spray-coat adhesive bonds metal, wood, rubber (except EPDM), urethane foam, acrylic, and ABS. Meet Fed. Spec. MMM-A-121. Nos. 5E127 and 5E130 also meet MIL-A-21366A.

I. Pliobond 25/35 Nitrile Special Purpose Adhesive—All-purpose thermosetting contact adhesives have pigment-reinforced synthetic rubber and synthetic plastic resin solids; provide a permanent bond that won't get brittle with age.

J. 3M™ Fastbond™ Contact Adhesive 30-NF—High water-dispersed sprayable contact adhesive for high immediate bond strength and long bonding range. Green adhesive dries to green. Neutral dries to clear. Nonflammable in wet state. Post-formable and heat resistant.

K. 3M™ Fastbond™ Pressure Sensitive Adhesive 4224NF—Water-based carpet adhesive is plasticizer resistant and has an aggressive tack. Repositionable for adhering carpet matting tiles to the floor. For use with glass, paper, steel, galvanized steel, bare and clad aluminum, fabric, and foam.

L. Loctite® MR 5414 Black Contact Adhesive—Professional, solvent-based adhesive with neoprene blends in with black-colored fabric, rubber, weatherstripping, and other porous materials. Withstands temperature extremes and is resistant to gasoline, kerosene, and other solvents. Fast drying and waterproof. Allows repositioning of the parts after initial contact.

FLOORING ADHESIVES

M. DAP® 4000 Subfloor VOC, Subfloor and Deck—Bonds wet, frozen, and treated lumber.

N. DAP® 7000 Subfloor and Deck—Solvent-based formulation reduces nailing requirements, floor squeaks, and nail pops. Easy gunning.

O. DAP® 4000 Subfloor and Deck—Forms a permanent bond on wet, frozen, and treated lumber. Reduces nailing requirements.

P. Weldwood® Multipurpose— Trowel-grade adhesive bonds many types of floor coverings. Formula provides greater shrink resistance and allows for easy repositioning during installation. Water-resistant, low-odor adhesive is nonflammable and cleans up easily with water. Ideal for Interior use.

Q. Weldwood® Sheet Floor— Trowel-grade, latex-based formula is for installing synthetic, felt-backed resilient sheet goods.

R. Weldwood® Ceramic Tile—Trowel-grade, latex-based adhesive for installing ceramic and mosaic tile on floors, walls, and countertops.

S. Weldwood® Wood Floor— High solids, trowel-grade synthetic adhesive for installation of prefinished wood flooring.



Beats The Nail® All-Purpose Adhesive No. 5E089



DynaGrip® Latex Cove Base Adhesives No. 2PE34



DynaGrip® Latex Tub & Shower Wall Adhesive No. 2PE31



SB-10 PAVER BOND® Adhesive No. 4FFG3



SB-12 METALBOND Sealant Adhesive No. 4AZF7



WeldWood® Latex Cove Base Adhesive No. 2PE35

Construction Adhesives

Description	Applications	VOC Levels Meet SCAQMD Requirements	Size	Item No.
DAP				
Construction Adhesives				
Beats The Nail® All-Purpose	For general construction, remodeling, maintenance, and repair projects	No	10.3 oz.	**5E089**
		No	28 oz.	**5E090**
Beats The Nail® Latex All-Purpose		Meets SCAQMD Requirements	28 oz.	**2NJ90** *
DynaGrip Heavy-Duty Adhesives	For wet, frozen, treated and engineered lumber, particleboard, OSB, ceramic, concrete, most metals, and brick	Meets SCAQMD Requirements	9 oz.	**1EJX9** †
Cove Base Adhesives				
DynaGrip Latex Cove Base Adhesives	For drywall, plaster, paint, wallpaper, paneling, and ceramic tile.	Meets SCAQMD Requirements	10.3 oz.	**2PE34** †
Paneling and Foam Adhesive				
DynaGrip Latex Paneling & Foam Adhesive	For bonding foamboard insulation and polystyrene to most common building materials including wood, drywall, ceramic, and metal.	Meets SCAQMD Requirements	10.3 oz.	**2PE30** *
Tub and Shower Wall Adhesive				
DynaGrip Latex Tub & Shower Wall Adhesive	For bonding polystyrene, plastics, and fiberglass to most common wall surfaces, including drywall, greenboard, and plaster.	Meets SCAQMD Requirements	10.3 oz.	**2PE31**
Dynagrip				
Construction Adhesives				
Dynagrip Heavy-Duty Max	For Subfloor & Deck, Paneling, Mirror, Countertop, Tub Surrounds, Landscape Block	Meets SCAQMD Requirements	9.0 oz.	**53PZ93**
Eclectic				
Construction Adhesives				
E6000	For Wood, Metal, Glass, Fiberglass, Ceramics, Masonry, Concrete, Asphalt, Leather, Rubber, PVC, Neoprene, Vinyl and Plastics	Meets SCAQMD Requirements	10.2 oz.	**49LW90**
E6100		Meets SCAQMD Requirements	10.2 oz.	**49LW92**
Gorilla				
Construction Adhesives				
Heavy Duty Construction Adhesive	—	No	9 oz.	**49UU20**
Liquid Nails				
Construction Adhesives				
Adhesive, Clear	For Wood, Metal, Glass, Fiberglass, Ceramics, Masonry, Concrete, Asphalt, Leather, Rubber, PVC, Neoprene, Vinyl and Plastics	No	2.5 oz.	**444D77**
All Surface Adhesive, Gray	For All Sufaces Except Polyethylene and Polypropylene	No	9 oz.	**444D87**
All Surface Adhesive, White		No	5 oz.	**444D86**
Construction Adhesive, Beige Tan	For Plywood, Panelin, Molding, Furring Strips, Ceramic Fixtures, Corkboard, Hardboard, Drywall	No	10 oz.	**444D78**
Construction Adhesive, Off White	For Paneling, Corkboard, Molding, Foamback Tub Surrounds, Drywall, Furring Strips, Plywood, Hardboard, Massonry, Concrete, Foamboard, Ceramic Tiles, Foamular Rigid Foam Insulation, Insulpink Foam Insulation Board, Medium Density Fiberboard	No	10 oz.	**444D81**
Construction Adhesive, Tan	For Plywood and Waferboard, Treated Lumber, Drywall, Tileboard, Brick Veneers, Exterior Foamboard	No	10 oz.	**444D82**
	For Plywood, Particleboard, Foamboard, Waferboard, Treated Lumber, Imitation Stone, Ceiling Tiles, Drywall, Tileboard	No	10 oz.	**444D84**
Flooring Adhesive, Beige Tan	For Lumber and Treated Lumber, Engineered Lumber, Plywood, Particleboard, Waferboard, ABS	No	10 oz.	**444D79**
Flooring Adhesive, White	For Plywood, Lumber, Particleboard, Cementboard,Treated Lumber, Composite Lumber, ABS	No	10 oz.	**444D83**
Repair Adhesive, Clear	For Wood,Steel, Porcelain, Glass, Polystyrene, ABS, Fiberglass, Fabric, Concrete, Aluminum, Rubber, Carpeting, Paintyer Surfaces, Cardboard, Foam, Stone, Marble	No	0.75 oz.	**444D88**
Repair Adhesive, White	For Wall Tile, House Numbers, Concrete, Wood, Drywall Patches, Metal, Stone, Ceramics, Aluminum, Shelving, Molding, Brick Veneer, Aluminim, Towel Racks, Molding, Carpeting	No	4 oz.	**444D80**
Tub Surround Adhesive, Off White	For Drywall, Ceramic Tiles, Cement Backerboards, Plywood, Greenboard, Hardboard	No	10 oz.	**444D85**
Loctite				
Construction Adhesives				
Express Power Grab	—	Meets SCAQMD Requirements	300mL	**53VA60**
Surebond				
Brick and Concrete Adhesives				
SB-10 PAVER BOND® Adhesive	For concrete interlocking, clay and roof deck pavers, ceramic tile, natural stone slabs, retaining wall block.	Meets SCAQMD Requirements	10 oz.	**4FFG3** †
Metal Adhesives				
SB-12 METALBOND Sealant Adhesive	For steel, aluminum, painted metals, galvanized metals, plumbing, and HVAC.	No	10.3 oz.	**4AZF7** †
Weldwood				
Cove Base Adhesives				
WeldWood® Latex Cove Base Adhesives	For drywall, plaster, paint, wallpaper, paneling, and ceramic tile.	Meets SCAQMD Requirements	1 gal.	**2PE36** †
		Meets SCAQMD Requirements	1 qt.	**2PE35** †
Specialty Adhesives				
FRP Adhesive	For Plywood, Drywall, Concrete, Plaster	No	1 gal.	**2PE41** *
		No	4 gal.	**48TR35** *

Nonflammable. † Water-resistant.

Multipurpose/ Construction Sealants

3M 760 Hybrid Sealant—Thick paste bonds to glass, metal, wood, concrete, and ceramic. UV resistant.

3M Polyurethane Construction Sealant 525—Adheres to expansion joints, metal, wood, aluminum and PVC joinery seams, clay and concrete roof tiles.

DAP Concrete 3.0™ Advanced Polymer Sealant—For wood, masonry, and concrete applications.

DAP Silicone Plus Premium Sealant—Seals wood, ceramic, and horizontal cracks, gaps and holes.

DAP Window, Door, and Exterior Sealant—Adheres to wood, aluminum, vinyl, plaster, drywall, masonry, stone, brick, glass, and concrete.

Dow Corning 700 Industrial Grade & 732 Multipurpose Sealants—Bonds concrete, glass, masonry, metal, and plastic.

GE SCS Silicone Contractors Sealant—Adheres to glass, plastic, granite, and sheet metal.

GE Contractors® SCS1000 Silicone Construction Sealant—For glass, metal, glazed surfaces, and many plastics.



No. 4KM87

GE Silicone II Gasket Sealant—Adheres to glass, metal, plastic, fiberglass, granite, concrete, and wood.

GE Silicone II™ Paintable Sealant—Use on siding, trim, moldings, patios, concrete, fiberglass, plastic, metal, and wood.

Loctite 5510 Sealant—High strength adhesive paste is used for elastic bonding and sealing on various substrates.

Loctite UR 7001 Urethane Sealant—Adheres to concrete, masonry, glass, plastics, wood, and aluminum.

Surebond SB-180 Sealant—Typical applications include sealing and glazing, plumbing, interior and exterior. Cures to the touch in an hour.

Surebond SB-170 Multi-Purpose Silicone Sealant—Adheres to hard-to-stick plastics, wood, PVC, vinyl, metal, glass, and painted surfaces.

Surebond SB-188 High-Temperature Silicone Sealant—Bonds to ceramic, glass, metal, plastic rubber, wood, fiberglass.

Description	Sealant Base	Begins to Harden	Full Cure	Application Temp. Range	Sealant Container	Size	▶CHOOSE: Color	Item No.
3M								
Hybrid Sealant/Adhesive								
760 Hybrid Sealant/Adhesive	Hybrid	30 min.	1 day	40° to 95°F	Cartridge	290mL	Black	**49Z638**
	Hybrid	30 min.	1 day	40° to 95°F	Cartridge	290mL	Gray	**49Z639**
	Hybrid	30 min.	1 day	40° to 95°F	Cartridge	290mL	White	**49Z640**
Construction Sealant								
Polyurethane Construction Sealant 525	Polyurethane	150 min.	1 day	40° to 95°F	Cartridge	10.5 oz.	Gray	**4YDF7**
DAP								
Construction Sealant								
Concrete 3.0™ Advanced Polymer Sealant	Acrylic	20 min.	1 day	20° to 120°F	Cartridge	9.0 oz.	Gray	**2LYV5**
Silicone Plus Premium Concrete & Masonry Sealant	Silicone	15 min.	1 day	-35° to 120°F	Cartridge	10.8 oz.	Gray	**29RV02**
Window, Door, and Exterior Sealant	Acrylic	20 min.	1 day	20° to 120°F	Cartridge	9.0 oz.	Clear	**29RV17**
	Acrylic	20 min.	1 day	20° to 120°F	Cartridge	9.0 oz.	White	**29RV16**
Dow Corning								
Construction Sealant								
700 Industrial Grade Silicone Sealant	Silicone	25 min.	1 day	-20° to 122°F	Tube	3.0 oz.	Clear	**53DA90**
	Silicone	25 min.	1 day	-20° to 122°F	Cartridge	10.1 oz.	Aluminum Gray	**53DA83**
732 Multipurpose RTV Sealant	Silicone	20 min.	1 day	-20° to 122°F	Cartridge	10.1 oz.	Aluminum Gray	**53DA93**
GE								
Silicone II™ Concrete and Masonry Sealant	Silicone	30 min.	1 day	40° to 100°F	Cartridge	10.1 oz.	Light Gray	**22N772**
Construction Sealant								
SCS SILICONE Contractors Sealant	Silicone	30 min.	2 days	—	Cartridge	10.1 oz.	Aluminum Gray, Black	**D3782**
Contractors® SCS1000 Silicone Construction Sealant	Silicone	30 min.	2 days	40° to 120°F	Cartridge	10.1 oz.	Clear, White	**D0282**
Silicone II Gasket Sealant	—	30 min.	—	40° to 100°F	—	2.8 oz.	Black	**3LA53**
Silicone II™ Paintable Sealant	Silicone	30 min.	1 day	40° to 100°F	Cartridge	10.1 oz.	White	**3LA52**
Loctite								
Hybrid Sealant/Adhesive								
5510™ Adhesive/ Sealant	Silane Modified Polymer	24 hrs.	7 days	-40° to 200°F	Cartridge	300mL Cartridge	White	**6JZV3**
	Silane Modified Polymer	24 hrs.	7 days	-40° to 200°F	Cartridge	300mL Cartridge	Gray	**6JZV4**
	Silane Modified Polymer	24 hrs.	7 days	-40° to 200°F	Cartridge	300mL Cartridge	Black	**6JZV5**
Construction Sealant								
UR 7001 Urethane Sealant	Urethane	—	7 days	-40° to 180°F	Cartridge	10.2 oz.	Gray	**4KM87**
Surebond								
Hybrid Sealant/Adhesive								
SB-180 RTV Silicone Sealant/ Adhesive	—	—	24 hr.	—	—	2.8 oz.	Clear	**48LR87**
	—	—	24 hr.	—	—	10.3 oz.	Clear	**48LR86**
	—	—	24 hr.	—	—	10.3 oz.	Gray	**48LR88**
	—	—	24 hr.	—	—	10.3 oz.	White	**48LR89**
	—	—	24 hr.	—	—	10.3 oz.	Black	**48LR90**
Construction Sealant								
SB-170 Multi-Purpose Silicone Sealant	—	30 min.	24 hr.	—	—	10.3 oz.	Clear	**48LR97**
SB-188 High Temperature Silicone Sealant	Silicone	30 min.	1 day	-20° to 122°F	Cartridge	10.3 oz.	Black, Clear	**D9104**

Roof and Gutter Sealants

Roof Asphalt Filler and Sealer—Forms watertight seal on wood, masonry, fiberglass, metal, and asphalt.

Butyl-Flex® Gutter and Flashing Sealant—Bonds concrete, metal, plastic, rubber, and wood. Resists weather, extreme temperatures, and shock.

Polyurethane Sealants—Provide superior adhesion to wood, metal, concrete, stone, aluminum, masonry, vinyl, fiberglass, plastic, and brick. Meet ASTM C920 Class 35.

Silicone II® Gutter and Flashing—Silicone sealant adheres to most aluminum, stainless steel, wood, masonry, brick, concrete, painted surfaces, vinyl, and plastic.

Silicone II Aluminum and Metal—Adheres to most aluminum, stainless steel, masonry, brick, concrete, granite, and metal. Resists extreme heat, UV rays, and freezing temperatures.

Geocel 4500 Roof Bonding Sealant—Bonds to many common substrates including asphalt shingles, steel, concrete, EPDM, primed TPO, primed PVC, Hypalon (black only), metal, and wood.

Elastomeric Acrylic Sealant—Use on concrete, drywall, glass, many plastics, masonry, metal, porcelain, stucco, vinyl, and wood.



Polyurethane Sealant No. 20VK39



4500 Roof Bonding No. 32ZT70

Description	Sealant Base	Begins to Harden	Full Cure	Application Temp. Range	Sealant Container	Color	Item No.
DAP							
Roof Asphalt Filler & Sealer	Hybrid	30 min.	3 days	40° to 120°F	Cartridge	Black	**5UFP4**
Butyl-Flex® Gutter and Flashing Sealant	Hybrid	120 min.	1 day	40°F	Cartridge	White	**3WEU1**
	Hybrid	120 min.	1 day	40°F	Cartridge	Aluminum Gray	**3WEU6**
Polyurethane Sealant	Polyurethane	30 min.	7 days	40° to 100°F	Cartridge	White	**20VK37**
Polyurethane Sealant, Concrete & Masonry	Polyurethane	30 min.	7 days	40° to 100°F	Cartridge	Gray	**20VK38**
Polyurethane Sealant, Roof & Flashing	Polyurethane	30 min.	7 days	40° to 100°F	Cartridge	Black	**20VK39**
GE							
Silicone II, Gutter and Flashing Waterproof Sealant	Silicone	30 min.	1 day	40° to 100°F	Cartridge	Clear	**22N771**
Silicone II, Aluminum and Metal Sealant	Silicone	30 min.	1 day	40° to 100°F	Tube	Metallic Gray	**22N774**
	Silicone	30 min.	1 day	40° to 100°F	Cartridge	Metallic Gray	**22N773**
Geocel							
4500 Roof Bonding Sealant	Hybrid	40 min.	1 day	30° to 120°F	Cartridge	White	**32ZT70**
	Hybrid	90 min.	1 day	30° to 120°F	Cartridge	Black	**32ZT71**
White Lightning							
Elastomeric Acrylic Sealant	Acrylic	10 min.	7 days	40° to 180°F	Cartridge	Gray	**34FW68**

Window/Door Caulks, Sealants, and Glazes

ACRYLIC

A. Concrete Caulk—Use with mortar, and masonry. Paintable; cleans easily with water. Indoor/outdoor use.

B. ALEX® Caulk—Adheres to wood, plaster, drywall, and masonry.

C. DYNAFLEX 230® Elastomeric Sealant—For crown molding and siding. Mildew-resistant when cured.

D. Window Glazing Caulk—For face glazing wood or metal frames. Weathertight seal.

E. MAX EXTRA Siliconized Acrylic Caulk—Mildew-resistant, paintable caulk for sealing interior and exterior windows, replacing window panes, and sealing cracks in the doorjamb or window seal.

BUTYL

F. SB-140 Skylight and Window Butyl Sealant—Flexible, one-part sealant is easy to remove and excellent for resealing and repairing leaks. Stays soft and malleable. Fast skinning and nonstaining.

HYBRID

G. ALEX PLUS® Caulk—Mildew-resistant and flexible.

H. Flexible Clear Sealant—Weatherproof and mildew- and UV-resistant. Adheres to concrete, glass, brick, wood, metal, and fiberglass.

I. ALEX Fast Dry® Caulk—Mildew-resistant. Paintable in 30 min.

J. Side Winder® Siding and Window Sealant—Adheres to vinyl, fiber, cement, aluminum, and wood. Permanently flexible. No shrinkage, low odor. Indoor/outdoor use.

K. ALEX PLUS® Sealant, Aerosol Can—Aerosol can provides excellent control without a caulk gun, for a smooth, consistent bead and no overflow.

POLYURETHANE

L. Polyurethane Sealant 540—One-part sealant cures fast with a joint movement capability ±25%. Nonstaining formula does not require mixing. Ideal for vertical and horizontal expansion joints, concrete control joints, precast and tilt-up construction, masonry expansion joints, aluminum curtain walls and storefronts, and submerged applications.

SILICONE

Flexible silicone provides a long-lasting, waterproof seal that is low odor and resists shrinking and cracking. It remains flexible after being dried or cured and can withstand higher temperatures.

M. 100% Silicone Window and Door Sealant—Seal resists cracking, crumbling, and chalking. Can be used to make gaskets. Mildew resistant. Indoor/outdoor use.

N. Silicone Plus™ Window and Door Sealant—Won't shrink or crack. Adheres to PVC, vinyl siding, and painted wood. Indoor/outdoor use.

O. Silicone Premuim Kitchen and Bath Sealant—For use on ceramic tile, glass, porcelain, and PVC in kitchen and bath applications.

P. Silicone I Sealant—Mold- and mildew-resistant sealant accommodates 25% movement in extension and compression with excellent recovery when joints shift. Low sag or slump allows application to overhead surfaces. Resistant to sun and freezing temperatures. Adheres to wood, metal, vinyl siding, drywall/plaster, glass, and plastic.

Q. Supreme Paintable Silicone—Fast-acting caulk can be painted with a brush after 30 min. and exposed to water in as little as 30 min.

R. Silicone I Window and Door Sealant—Adheres to most wood, metal, vinyl siding, drywall, plaster, glass, and plastic. Use on doors, siding, trim, molding, baseboards, and vents. Also use around wire, pipes, and other attic/basement applications. FDA approved.

S. Silicone II Window and Door Sealant—Twice the stretch of Silicone I. Withstands extreme joint movement.

T. Silicone II Window and Door Sealant—Stretches and compresses with joint movement.



A. Concrete Caulk No. 25F526



E. SB-140 Skylight and Window Butyl Sealant No. 5PWD6



H. ALEX®, Fast Dry Caulk No. 2KVG6



L. Polyurethane Sealant 540 No. 29UJ52

Key	Description	Begins to Harden	Performance Temp. Range	Size	▶CHOOSE: Color	Item No.	
Acrylic							
DAP							
A	Concrete Caulk	15 min	-30° to 150°F	10.1 oz	Gray	**25F526**	
B	ALEX® Caulk	10 min	-20° to 180°F	10.1 oz	White	**5E079**	†‡
C	Dynaflex 230® Elastomeric Sealant	30 min	-30° to 180°F	10.1 oz	Black, Cedar Tan, Dark Bronze, Brown, Almond, Clear, White, Gray	**D0258**	†‡
D	Window Glazing Caulk	60 min	-20° to 160°F	10.1 oz	White	**5UFR5**	†‡
GE							
E	MAX EXTRA, Siliconized Acrylic Caulk	5 min	-40° to 100°F	10.1 oz	Woodtone	**D0268**	†‡
		5 min	-15° to 158°F	10.1 oz	White, Clear	**D0268**	†‡
Butyl							
SUREBOND							
F	SB-140 Skylight and Window Sealant	60 min	-20° to 200°F	10.3 oz	White	**5PWD6**	
Hybrid							
DAP							
G	ALEX PLUS® Caulk	10 min	40° to 100°F	5.5 oz	White	**3WEW3**	†‡
	ALEX PLUS, Acrylic Latex Caulk, with Silicone	10 min	-20° to 180°F	10.1 oz	Crystal Clear, Cedar Tan	**D0257**	†‡
		10 min	40° to 100°F	10.1 oz	Brown, Slate Gray, Dark Bronze, Black, Almond, Antique White, White	**D0257**	†‡
H	Flexible Clear Sealant	10 min	-30° to 200°F	10.1 oz	Clear	**5UFP5**	
I	ALEX, Fast Dry® Caulk	15 min	-20° to 180°F	10.1 oz	White	**2KVG6**	†‡
J	Side Winder Siding and Window Sealant	30 min	-35° to 350°F	10.1 oz	Crystal Clear	**2PE48**	†
		30 min	-65° to 350°F	10.1 oz	White	**2PE49**	†
K	ALEX PLUS® Sealant	20 min	-20° to 180°F	16.0 oz	White	**2LYW2**	†‡
Polyurethane							
3M							
L	Polyurethane Sealant 540	90 min	-40° to 194°F	10.5 oz	White	**29UJ52**	
Silicone							
DAP							
M	100% Silicone Window and Door Sealant	20 min	-40° to 400°F	2.8 oz	Clear	**D0262**	
		20 min	-40° to 400°F	9.8 oz	Aluminum Gray, Almond, Clear, White, Bronze	**D0262**	
		20 min	-40° to 140°F	9.8 oz	Black	**4MY67**	
N	Silicone Plus™ Window and Door Sealant	15 min	-40° to 300°F	10.8 oz	Clear	**2NGJ2**	
O	Silicone Premium Kitchen and Bath Sealant	15 min	-40° to 300°F	10.8 oz	White	**29RV05**	
GE							
P	Silicone I, Sealant	30 min	-60° to 400°F	2.8 oz	Clear	**22N769**	
Q	Supreme Paintable Silicone	20 min	-30° to 150°F	10.1 oz	White	**11N102**	†
R	Silicone I Window and Door Sealant	30 min	-60° to 400°F	10.1 oz	Black, Bronze, Clear, White	**D0269**	
S	Silicone II, Window and Door Sealant	30 min	-60° to 400°F	10.1 oz	White, Clear	**D9105**	
T		30 min	-60° to 400°F	2.8 oz	Clear	**22N763**	
		30 min	-60° to 400°F	10.1 oz	Black, Brown, Light Gray, Almond, Clear	**D0271**	

† Paintable. ‡ Water cleanup.

Kitchen and Bathroom Sealants and Caulks



Kitchen, Bath & Plumbing
No. 29RV15



Kitchen & Bath
No. 29RV08



Kwik Seal
No. 4MY71



DOWSIL™
No. 53DD15



RTV 786
No. 53DC38



Silicone II
No. 22N770



No. 444D75

Note: See related caulk guns on page 2234.

DAP®

100% Silicone Sealant

One-component, acetoxy cure material is ideal for caulking and sealing. Provides a durable, watertight seal that won't crack or shrink. It offers long-lasting flexibility and is safe for incidental food contact. Cured sealant is mildew resistant.

Kitchen, Bath, and Plumbing High-Performance Sealant

Kwik Dry® formula is paintable and water-resistant in ½ hr. Waterproof seal with Microban protects against mold and mildew up to 10 yr.

Kitchen and Bath Sealant with Microban®

Antimicrobial protection fights mold, mildew, odors, and stains. Kwik Seal Plus® formula provides a watertight seal with maximum adhesion and flexibility.

Premium Kitchen and Bath Sealant

Low-odor silicone formula is water-resistant in ½ hr. Forms a flexible, waterproof seal with excellent adhesion.

Kwik Seal®

Acrylic formula is mold- and mildew-resistant. Dries tack-free in 15 min. Resists cracking, crumbling, and shrinking.

Latex caulk and sealant form a mildew-resistant, watertight seal. Water cleanup.

Phenoseal® Adhesive Caulk

Mildew-resistant and watertight seal. Water cleanup.

DOW CORNING

DOWSIL™ Silicone Base Clear Cartridge Sealant is for use on concrete, glass, masonry, metal, plastic, and wood. DOWSIL™ 786 RTV Sealant is designed to seal nonporous surfaces around showers, tubs, sinks, and plumbing fixtures where conditions of high humidity and temperature extremes exist.

GE

Waterproof sealants won't shrink or crack over time.

Silicone II Sealant

Nos. 3LA50, 4UH01, 3LA48, and 3LA49 are low odor and mildew resistant. Sealant remains permanently flexible. No. 22N770 is a flexible, mold- and mildew-resistant formula that accommodates 25% movement in extension and compression with excellent recovery. Useful for horizontal and vertical overhead surfaces. Nos. 5PWD3 and 5PWD4 feature low VOC.

Silicone II Supreme Sealant

Sealant is permanently flexible, won't corrode metals, is water-ready in ½ hr., and resists mold up to 10 yr. Mildew- and UV-resistant.

Silicone I Sealant

Keeps water away from kitchen and bath applications. Flexible formula is mold and mildew resistant. Accommodates 25% movement in extension and compression with excellent recovery when joints shift. Applies to horizontal or vertical overhead surfaces. For use on laminate, porcelain, glass, metal, plastic, granite, wood, and most ceramic tile.

Supreme Paintable Sealant

Modified silicone formula is ready for paint in ½ hr. Not sticky or stringy. Stays mold- and mildew-free for up to 10 yr.

HOMAX

Extra-wide caulk strip is a preshaped, flexible, peel-and-stick strip that seals out moisture that can damage walls by eliminating the gap where dirt can accumulate.

Description	Begins to Harden	Performance Temp. Range	Size	Sealant Container	Color	Mfr. Model	Item No.	
DAP								
100% Silicone Sealant	10 min	-40° to 400°F	9.8 oz	Cartridge	Clear	8648	**2KVH6**	*
Kitchen, Bath and Plumbing High Performance Sealant	20 min	-65° to 200°F	9.0 oz	Cartridge	White	790	**29RV14**	
	20 min	-65° to 200°F	9.0 oz	Cartridge	Clear	795	**29RV15**	
Kitchen & Bath Sealant with Microban	10 min	40° to 100°F	10.1 oz	Cartridge	White	18510	**29RV11**	
	10 min	-30° to 180°F	10.1 oz	Cartridge	Clear	18516	**29RV12**	
	10 min	40° to 100°F	10.1 oz	Cartridge	Biscuit	18519	**29RV13**	
	10 min	40° to 100°F	5.5 oz	Tube	White	18526	**29RV08**	
	10 min	40° to 100°F	5.5 oz	Tube	Biscuit	18539	**29RV09**	
	10 min	-30° to 180°F	5.5 oz	Tube	Clear	18546	**29RV10**	
KWIK SEAL® Kitchen & Bath Adhesive Caulk	10 min	-20° to 180°F	10.1 oz	Cartridge	Clear	18242	**25F525**	
	10 min	-20° to 150°F	10.1 oz	Cartridge	White	70798-18032	**4MY71**	*
	10 min	-20° to 150°F	5.5 oz	Tube	White	18001	**5E080**	*
	10 min	-20° to 180°F	5.5 oz	Tube	Clear	18008	**5UFP2**	*
	10 min	-20° to 150°F	5.5 oz	Tube	Almond	18013	**5UFP3**	*
Phenoseal® Latex Adhesive Caulk	10 min	-20° to 100°F	10.0 oz	Cartridge	Almond	02102	**2PE50**	*
	10 min	-20° to 100°F	10.0 oz	Cartridge	Metallic Gray	04102	**2PE52**	*
	10 min	-20° to 100°F	10.0 oz	Cartridge	Black	06102	**2PE53**	*
	10 min	-20° to 100°F	10.0 oz	Cartridge	Brown	09102	**2PE54**	*
	10 min	-20° to 180°F	10.0 oz	Cartridge	White	51136-00005	**4MY75**	*
	10 min	-20° to 180°F	10.0 oz	Cartridge	Clear	51136-00006	**4MY76**	*
Premium Kitchen and Bath Sealant	15 min	-65° to 350°F	10.1 oz	Cartridge	Clear	8781	**29RV06**	
	15 min	-65° to 350°F	10.1 oz	Cartridge	Almond	8785	**29RV07**	
Dow Corning								
DOWSIL™	25 min	-75° to 350°F	10.3 oz	Cartridge	Almond	4045034	**53DD14**	
	25 min	-75° to 350°F	10.3 oz	Cartridge	Clear	4045036	**53DD15**	
	25 min	-75° to 350°F	10.3 oz	Cartridge	Transparent White	4045038	**53DD16**	
	25 min	-75° to 350°F	10.3 oz	Cartridge	White	4045039	**53DD17**	
DOWSIL™ 786, RTV Sealant	20 min	-75° to 350°F	10.1 oz	Cartridge	Almond	4074651	**53DC38**	
	20 min	-75° to 350°F	10.1 oz	Cartridge	Clear	4074662	**53DC39**	
	20 min	-75° to 350°F	10.1 oz	Cartridge	Gray	4074665	**53DC40**	
	20 min	-75° to 350°F	10.1 oz	Cartridge	Translucent White	4074664	**53DC41**	
	20 min	-75° to 350°F	10.1 oz	Cartridge	White	4074663	**53DC42**	
GE								
Silicone II Caulk	30 min	-60° to 400°F	2.8 oz	Tube	Almond	28055	**446G71**	
Silicone II Kitchen and Bath Sealant	30 min	-60° to 400°F	10.1 oz	Cartridge	Clear	GE 5040 12G	**3LA48**	
	30 min	-60° to 400°F	10.1 oz	Cartridge	White	GE 5070 12G	**3LA49**	
	10 min	-60° to 400°F	10.1 oz	Cartridge	Almond	GE5060	**11N099**	
	30 min	-60° to 400°F	2.8 oz	Tube	Clear	GE 284 3TG	**3LA50**	
	30 min	-60° to 400°F	2.8 oz	Tube	White	GE281	**4UH01**	
Silicone II Rubber Sealant	30 min	-60° to 400°F	2.8 oz	Tube	Clear	GE280	**22N770**	
Silicone II Supreme Sealant	30 min	-60° to 400°F	10.1 oz	Cartridge	Clear	M90006	**5PWD3**	
	30 min	-60° to 400°F	10.1 oz	Cartridge	White	M90007	**5PWD4**	
	30 min	-15° to 158°F	10.1 oz	Cartridge	Almond	M90010	**5PWD5**	
Silicone I Sealant	30 min	-60° to 400°F	10.1 oz	Tube	Clear	GE612	**22N766**	
	30 min	-60° to 400°F	10.1 oz	Cartridge	White	GE712	**22N768**	
	30 min	-60° to 400°F	2.8 oz	Tube	Clear	GE360	**22N767**	
Supreme Paintable Sealant	20 min	-30° to 150°F	9.0 oz	Cartridge	White	M90025-30	**11N101**	*
Homax								
Bathroom Tub, Wall Surrounds Caulk Strip	30 min	Not Rated	1 ⅝ in x 11 ft	Roll	White	34040	**444D75**	

Paintable.

DAP

Silicate Cement
No. 2KVH9



Fireplace and Stove Sealers

- Sealant container: 10.1 oz. cartridge

Silicate Cement—High-heat mortar for use on masonry and wood. Ideal for patching firebrick and mortar in fireplaces, and sealing wood-burning stoves. Cleans up with water.

Blockade® Intumescent Acrylic Sealant—Single-component water-based firestop sealant for use on concrete, fiberglass, plastic, and wood. Meets ASTM E8141 and UL 1479 standards.

Description	Begins to Harden	Full Cure	Application Temp. Range	Color	Item No.
Silicate Cement	60 min.	1 day	40° to 100°F	Black	2KVH9
Blockade®	120 min.	28 days	40° to 120°F	Red	2KVH7

5200 Adhesive Sealant
No. D9122

733 Glass and Metal
No. 53DC13



3M DOW CORNING LOCTITE®

Marine Sealants

Marine Adhesive Sealant Fast Cure 4000 UV and 4200—Flexible bond for wood, fiberglass, gelcoat, plastics, and metals. Use for boat hardware above or below water line. No. 1RWH9 has VOC levels that meet SCAQMD requirements.

Marine Adhesive Sealant 5200 and 5200 UV—Flexible sealant for wood, fiberglass, metal and most plastics.

550 Adhesive Sealant—Medium paste forms permanent elastic bond on concrete, wood, aluminum, and most lacquered metals, polyester, glass, and stone.

730 Hybrid Sealant—Bonds material with differing thermal expansion.

740 Hybrid Sealant—Elastic bond for concrete, wood, aluminium, most lacquered metals, polyester, glass, stone, and ceramic. Can replace rivets and other fasteners.

DOWSIL™ 733 Glass and Metal Sealant—Conventional acetoxy RTV sealant with adhesion promoter.

Loctite® Gasket Dressing SI 592™—For use as a permanent seal above or below the water line.

Description	Begins to Harden	Full Cure	Application Temp. Range	Size	Sealant Container	▶CHOOSE: Color	Item No.
3M							
Marine Adhesive Sealant, Fast Cure 4000 UV	20 min.	24 hr.	—	10 oz.	—	White	1RWH9
Marine Adhesive Sealant Fast Cure 4200	120 min.	1 day	40° to 100°F	10.0 oz.	Cartridge	White	2JBK5
		1 day	40° to 100°F	10.0 oz.	Cartridge	Black	2JBK6
Marine Adhesive Sealant 5200	Greater Than 48 hr.	5 days	40° to 100°F	10.0 oz.	Cartridge	Black	D9122
		7 days	40° to 100°F	10.0 oz.	Cartridge	Mahogany, White	D9122
		7 days	40° to 100°F	10.0 oz.	Cartridge	Tan	2JBH1
Marine Adhesive Sealant Fast Cure 5200 UV	1 hr.	24 hr.	—	3 oz.	—	White	1RWH7
550 Sealants	90 min.	1 day	40° to 95°F	10.1 oz.	Cartridge	Black	D9111
		1 day	40° to 95°F	10.5 oz.	Cartridge	White	D9111
730 UV Hybrid Sealant	30 min.	1 day	40° to 95°F	305mL	Cartridge	Clear	29UJ48
740 UV Hybrid Sealants	60 min.	1 day	40° to 95°F	600mL	Sausage Pack	Gray	29UJ27
Dow Corning							
DOWSIL™ 733 Glass and Metal Sealant	15 min.	1 day	-20° to 122°F	10.1 oz.	Cartridge	Aluminum Gray	53DC13
		1 day	-20° to 122°F	10.1 oz.	Cartridge	Black	53DC14
		1 day	-20° to 122°F	10.1 oz.	Cartridge	Clear	53DC15
		1 day	-20° to 122°F	10.1 oz.	Cartridge	White	53DC16
		1 day	-20° to 122°F	624.3 oz.	Pail	Black	53DC17
Loctite							
Gasket Dressing SI 592™	4 hr.	24 hr.	—	16 oz.	—	Brown	16X924

DAP

No. 20HA76



Food-Grade Sealant

Silicone formula for commercial kitchens and food processing for use on ceramic, fiberglass, glass, metal, and plastic. Provides a durable, waterproof seal with minimal shrinkage, long-lasting flexibility, and excellent adhesion. NSF Standard 51 certified.

Description	Begins to Harden	Full Cure	Application Temp. Range	Size	Sealant Container	Color	Item No.
NSF Commercial Silicone	10 min.	1 day	-35° to 140°F	9.8 oz.	Cartridge	White	20HA76
						Clear	20HA77
						Stainless Steel	20HA78

SUREBOND
Joint Stabilizers ○ Sealers ○ Cleaners ○ Adhesives

White
No. 25J627



Pick-Proof Adhesive/Sealant

- Sealant container: 10.3 oz. cartridge

Formulated for use in correctional institutions, this hard-setting adhesive features a tensile strength of 2000 psi and resists cracking. Adheres to bars, vents, windows, doors, covers, and grids.

Description	Begins to Harden	Full Cure	Application Temp. Range	Color	Item No.
SB-190 Sealant	60 min.	28 days	50°F	White	25J627
				Clear	3RCY6



No. 3EAD7



No. 3EAD8

NEWBORN

SUPPLIER DIVERSITY

Pneumatic Caulk Guns

- Pistol grip
- ¼" MNPT fittings

Air-powered dispensing guns get the job done faster than manual-control guns, with outstanding flow control. Flow stops immediately when you stop squeezing the trigger, to eliminate end-of-run "weep".

Cartridge Size	Barrel Material	Pressure Range	Retainer Type	Mfr. Model	Item No.
10 oz.	Aluminum	0 to 100 psi	Quick Coupler Plug	710AL-12	3EAD7
29 oz.	Aluminum	0 to 100 psi	Quick Coupler Plug	710AL-30	3EAD8


Ratchet Rod,
No. 5F571


Smooth Rod,
No. 5UXR1


Smooth Rod,
No. 13W868


Smooth Rod
No. 48UL64


Drip-Free,
No. 13J315


Bulk/Sausage Pack,
No. 4XX64

Manual Caulk Guns

Size	Type	Construc.	Thrust Ratio	Color	Includes	Brand	Item No.
Ratchet Rod							
10 oz.	Ratchet Gun	Zinc Chromate-Plated Steel	7:1	Silver/Blue	Spout Cutter, Puncture Tool, Ladder Hook	Westward	**13J318**
	Ratchet Gun	Steel	7:1	Blue	—	Westward	**13J321**
	Industrial	Composite Plastic Body, Dripless Feature	18:1	Yellow/Black	Precision Cutter, Puncture Tool, Ladder Hook	Dripless	**2PB79**
	Ratchet Rod, Ergonomic Handle	Steel, Plastic	6:1	Silver/Blue/Green	Spout Cutter, Seal Puncture Tool, Ladder Hook	Newborn	**48UL61**
10.3 oz.	Industrial Super	Zinc-Chromate Plated	6:1	—	Puncture Tool	Newborn	**5F571**
29 oz.	Ratchet Gun	Zinc Chromate-Plated Steel	7:1	Silver	Spout Cutter, Puncture Tool, Ladder Hook,Wrist Wrap	Westward	**13J322**
Smooth Rod							
250mL	High Thrust	Steel	26:1	Lime Green	Smooth Rod	PC Products	**5UXR1**
10 oz.	Ratchet Gun	Steel	—	Blue	Spout Cutter, Puncture Tool, Ladder Hook, Wrist Wrap	Westward	**13J311**
	Revolving Barrel	Steel	12:1	Blue/Black	Spout Cutter, Seal Puncture Tool	Westward	**13J317**
	Hex Smooth Rod	Steel	12:1	Silver	Spout Cutter, Puncture Tool, Ladder Hook	Westward	**13J319**
	Hex Smooth Rod	Steel	12:1	Blue	Spout Cutter, Puncture Tool, Ladder Hook, Parallel Frame	Westward	**13W868**
	Smooth Rod	Steel	26:1	Black/Orange	Revolving Barrel, Ladder Hook, Rubber-Coated Grip	Newborn	**48UL64**
	Hex Rod, Ergonomic Handle	Steel, Plastic	10:1	Silver/Maroon/Green	Spout Cutter, Seal Puncture Tool, Ladder Hook	Newborn	**48UL62**
29 oz.	Revolving Barrel	Steel	12:1	Blue/Black	Spout Cutter, Puncture Tool, Ladder Hook	Westward	**13J310**
Drip-Free							
10 oz.	Revolving Barrel	Plastic	10:1	Blue/Black	Ladder Hook	Westward	**13J312**
	Revolving Barrel	Plastic	12:1	Blue/Black	Precision Cutter, Puncture Tool, Ladder Hook	Westward	**13J315**
	Hex Rod, Ergonomic Handle	Steel, Plastic	10:1	Green	Spout Cutter, Seal Puncture Tool, Ladder Hook	Newborn	**48UL60**
	Hex Rod, Comfort Grip	Steel	10:1	Silver	Spout Cutter, Seal Puncture Tool, Ladder Hook	Newborn	**48UL63**
Bulk/Sausage Packs							
11 to 20 oz.	Aluminum Tube, Neoprene Plunger, Rotating Barrel	Plastic	12:1	Blue/Black	Ladder Hook	Westward	**13J314**
10 and 20 oz.	EZ Thrust Hex Rod	Zinc Chromate-Plated Body, Steel Nozzle	12:1	Silver	Floating Sausage Cup, Ring Cap and 3 Cones	Newborn	**4XX64**
24 oz.	Aluminum Tube, Shot Blasting	Aluminum	12:1	Silver/Black	3 Nozzles	Westward	**13J313**
32 oz.	Manual	—	—	—	Tuck Point Nozzle, Grout Nozzle, Tube and Turbine Mixer	Cox	**23YJ71**
34 oz.	Manual	—	—	—	(6) Yellow Cone Nozzles and Spanner Wrench	Cox	**23YJ72**


Milwaukee
No. 6AWC5


Makita
No. 20UJ22

Battery Powered Caulk Guns

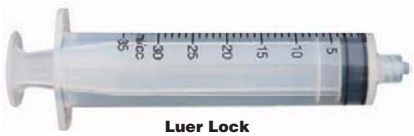
- **Variable-speed triggers**
- **360° rotating collar provides excellent bead control**

Carriage design allows the user to quickly and easily change between 10-oz., Quart, and Sausage-style material containers.

12V—Compact, lightweight guns provide up to 400 lb. of push force for dispensing everyday construction sealants and adhesives. Include auto-reversing anti-drip, seal puncture tool, and durable hang hook.

18V—All-metal gears provide 950 (Milwaukee®) or 1100 (Makita®) lb. of force for steady dispensing of the highest viscosity materials. Anti-drip mechanism instantly stops leaks. No. 14P345 kit includes a clear barrel for seeing remaining material and watching for bag wrap or blow-back. Makita models have an LED light.

Application Speed	Cap.	Tool Length	Tool Wt.	Includes	Battery Pack Replacement	Brand	Mfr. Model	Item No.
12V								
0 to 29 in./min.	10 oz.	16⅛"	3.7 lb.	Tool	2XKZ6	Milwaukee	2441-20	**34G843**
	10 oz.	16⅛"	4.11 lb.	Tool, Battery, 30-min. Charger	2XKZ6	Milwaukee	2441-21	**34G844**
18V								
0 to 21 in./min.	10 oz.	18½"	5.8 lb.	Tool, Battery, 30-min. Charger	2XKZ3	Milwaukee	2641-21CT	**6AWC5**
	10 oz.	18½"	4.9 lb.	Tool	2XKZ3	Milwaukee	2641-20	**6AWC4**
	20 oz.	28"	6.5 lb.	Tool, Battery, 30-min. Charger	2XKZ3	Milwaukee	2642-21CT	**6AWC6**
	20 oz.	28"	6.5 lb.	Tool, Battery, 30-min. Charger	2XKZ3	Milwaukee	2643-21CT	**14P345**
0 to 66 in./min.	10 oz.	15⅞"	5.1 lb.	Tool	Mfr. No. BL1830B	Makita	XGC01Z	**20UJ22**
	20 oz.	21¼"	6 lb.	Tool	Mfr. No. BL1830B	Makita	XGC01ZB	**20UJ23**



Luer Lock Syringe



Luer Slip Syringe

GA GRAINGER APPROVED

Syringes

Syringes contain barrels, pistons, and rubber stoppers. Taper tip syringes can be cut shorter, widening the opening to increase flow. Air-operated syringes are designed for repetitive use. Tip caps are used to cover luer lock syringes.

Description	Cap.	For Use With	Item No.
Syringes			
Luer Lock Syringe	3cc	Disposable, Reusable, Dispensing Needles	**5FVD8**
	5cc		**5FVD9**
	10cc		**5FVE0**
	20cc		**5FVE1**
	30cc		**5FVE2**
	50cc		**5FVE3**
Luer Slip Syringe	1cc		**5FVE8**
Taper Tip Syringe	10cc		**5FVE5**
	30cc		**5FVE6**
	50cc		**5FVE7**
Air Operated Luer Lock (Barrel And Stopper Only)	10cc	Disposable, Reusable, Dispensing Needles and Dispensing Machines	**5FVD4**
	30cc		**5FVD5**
Air Operated Taper Tip (Barrel & Stopper Only)	30cc	Dispensing Machines	**5FVD7**
Syringe Tip Cap			
Black Tip			**5FVL6**



Luer Lock

GA GRAINGER APPROVED

Reusable Probe Needles

Standard female luer lock needles connect to syringes, dispensing machines, and hoses.



⅛" NPT



Luer Lock, All Stainless Steel

Length	Material	Gauge	Outside Dia.	Inside Dia.	Item No.	Pkg. Qty.
Luer Lock						
¼"	Stainless Steel	12	0.109"	0.085"	**5FTY0**	12
		14	0.083"	0.063"	**5FTY1**	12
		16	0.065"	0.047"	**5FTY2**	12
		18	0.050"	0.033"	**5FTY3**	12
		22	0.028"	0.016"	**5FTY5**	12
2"		5	0.219"	0.189"	**5FTV4**	12
		7	0.180"	0.150"	**5FTV6**	12
		10	0.134"	0.106"	**5FTV9**	12
		11	0.120"	0.094"	**5FTW0**	12
		12	0.109"	0.085"	**5FTW1**	12
		13	0.095"	0.071"	**5FTW2**	12
		14	0.083"	0.063"	**5FTW3**	12
		15	0.072"	0.054"	**5FTW4**	12
		16	0.065"	0.047"	**5FTW5**	12
		18	0.050"	0.033"	**5FTW7**	12
		22	0.028"	0.016"	**5FTX1**	12
		30	0.012"	0.006"	**5FTX9**	12
4"		12	0.109"	0.085"	**5FTY8**	12
		14	0.083"	0.063"	**5FTY9**	12
		16	0.065"	0.047"	**5FTZ0**	12
		18	0.050"	0.033"	**5FTZ1**	12
		20	0.036"	0.024"	**5FTZ2**	12
Luer Lock, All Stainless Steel						
2"	All Stainless Steel	16	0.065"	0.047"	**5FVC0**	5
⅛" NPT						
2"	Stainless Steel	10	0.134"	0.106"	**5FTZ7**	5
		13	0.095"	0.071"	**5FTZ8**	5
		16	0.065"	0.047"	**5FTZ9**	5
¼" NPT						
2"	Stainless Steel	10	0.134"	0.106"	**5FVA3**	5
Translucent Needle Covers						
1½" Length, Polypropylene					**5FVN6**	50



Stainless Steel



PTFE



Polypropylene

GA GRAINGER APPROVED

Disposable Needles

Luer lock fittings are compatible with standard dispensing and lab sampling luer lock connections. Antistatic, nonsterile, with a flat cut (90°) tip. PTFE needles are clog resistant and reduce scratching.

Description	Outside Dia.	Inside Dia.	½" LENGTH Item No.	½" LENGTH Pkg. Qty.	1" LENGTH Item No.	1" LENGTH Pkg. Qty.	1½" LENGTH Item No.	1½" LENGTH Pkg. Qty.
Stainless Steel Cannula and Polypropylene Hubs								
14 ga. (Green)	0.083"	0.067"	**5FVH1**	50	**5FVH2**	50	**5FVJ9**	50
15 ga. (Orange)	0.072"	0.060"	**5FVH3**	50	**5FVH4**	50	**5FVK0**	50
16 ga. (Purple)	0.065"	0.053"	**5FVG5**	50	**5FVG6**	50	**5FVK1**	50
18 ga. (Pink)	0.050"	0.038"	**5FVH5**	50	**5FVH6**	50	**5FVK2**	50
19 ga. (Brown)	0.042"	0.032"	**5FVG7**	50	**5FVG8**	50	**5FVK3**	50
20 ga. (Yellow)	0.036"	0.026"	**5FVH7**	50	**5FVH8**	50	**5FVK4**	50
21 ga. (Green)	0.032"	0.023"	**5FVH9**	50	**5FVJ0**	50	**5FVK5**	50
22 ga. (Black)	0.028"	0.019"	**5FVJ1**	50	**5FVJ2**	50	**5FVK6**	50
23 ga. (Blue)	0.025"	0.017"	**5FVJ3**	50	**5FVJ4**	50	**5FVK7**	50
25 ga. (Blue)	0.020"	0.012"	**5FVJ5**	50	**5FVJ6**	50	**5FVK8**	50
26 ga. (Tan)	0.018"	0.010"	**5FVG9**	50	**5FVH0**	50	**5FVK9**	50
27 ga. (Gray)	0.016"	0.008"	**5FVJ7**	50	**5FVJ8**	50	**5FVL0**	50
30 ga. (Lavender)	0.012"	0.006"	**5FVL8**	10	—	—	—	—

Description	L	Outside Dia.	Inside Dia.	Item No.	Pkg. Qty.
PTFE Disposable Luer Lock Probe Needles					
14 ga. (Olive)	2"	0.082"	0.066"	**5FVL1**	10
16 ga. (Purple)	2"	0.065"	0.053"	**5FVL2**	10
18 ga. (Pink)	2"	0.054"	0.042"	**5FVL3**	10
20 ga. (Yellow)	2"	0.046"	0.034"	**5FVL4**	10
22 ga. (Black)	2"	0.040"	0.028"	**5FVL5**	10
Polypropylene Disposable Probe Needles					
15 ga. (Gray/White)	1½"	0.072"	0.054"	**5FVL9**	10
16 ga. (Brown/White)	1½"	0.067"	0.047"	**5FVN0**	10
18 ga. (Pink/White)	1½"	0.053"	0.032"	**5FVN1**	10
20 ga. (Yellow/White)	1½"	0.039"	0.024"	**5FVN2**	10
22 ga. (Black/White)	1½"	0.032"	0.016"	**5FVN3**	10
25 ga. (Red/White)	1½"	0.029"	0.013"	**5FVN4**	10
Disposable Probe Needle Assortment					
Stainless Steel Cannula and Polypropylene Hub, Includes 1 each 14, 15, 16, 18, 19, 20, 21, 22, 23, 25, 26, 27 ga.				**5FVL7**	1



14 ga. (Salmon)
No. 5FVF9

GA GRAINGER APPROVED

1-Pc. Polyethylene Taper Tip Dispensing Needles

Taper feature reduces dripping and improves flow. Tip can be cut to create larger opening. Chemical- and scratch resistant.

Description	L	Inside Dia.	Item No.	Pkg. Qty.
14 ga. (Salmon)	1¼"	0.063"	**5FVF9**	50
16 ga. (Gray)	1¼"	0.048"	**5FVG0**	50
18 ga. (Green)	1¼"	0.035"	**5FVG1**	50
20 ga. (Pink)	1¼"	0.024"	**5FVG2**	50
22 ga. (Blue)	1¼"	0.017"	**5FVG3**	50
24 ga. (Red)	1¼"	0.013"	**5FVG4**	50



DAP® Spray Foam Sealant No. 5E086



Great Stuff Pro™ Gaps & Cracks No. 48WK20



Handi-Foam® Spray Foam No. 15Z030



Pur Fill NF 12 No. 45TP88



Black Foam Pest Block No. 444A75



Quick Cure, Fireblock Reduced Expansion No. 444C09



Froth-Pak™ Spray Foam Sealant Kit No. 48WK26



Spray Foam Sealant Kit No. 2TE61

Foam Sealants and Spray Foam Kits

Note: Cylinders are for large job applications. Two cylinder kits offer anticrossover hoses and nozzle to eliminate chemical crossover.

Description	Application	Expansion Ratio	Insulation Value	Color	Size	Coverage	Container Type	Std.	Item No.	Pkg. Qty.
Single-Component										
DAP®										
Fireblock Spray Foam Sealant Kit	Fire Barrier	2-3:1	R-4 to 5	Orange	12 oz.	560 Linear ft. @ ⅜" Bead	Aerosol Can	UL Classified, ASTM E-84	**2KVH8**	1
Spray Foam Sealant	Multipurpose	2-3:1	R-4	Tan	20 oz.	—	Aerosol Can	UL Classified	**5E087**	1
	Polyurethane Expansion Foam Fills and Seals Large Cavities greater than 1", 30 Day Can Use	2-3:1	R-4	Tan	12 oz.	—	Aerosol Can		**5E086**	1
	Window and Door	—	R-4	White	12 oz.	—	Aerosol Can	—	**2PE56**	1
GREAT STUFF PRO™										
Pestblock	Pest Control	1-2:1	R-3.8	Gray	20 oz.	—	Aerosol Can	UL Classified	**48WK22**	1
Pro Gaps and Cracks	Pro Gaps and Cracks	1-2:1	R-3.8	Orange	24 oz.	—	Aerosol Can		**48WK20**	1
Pro Window and Door	Pro Window and Door	1-2:1	R-3.8	Yellow	20 oz.	—	Aerosol Can	UL Classified, ASTM, AAMA	**48WK21**	1
GREAT STUFF™										
Fireblock	Fire Barrier	2-4:1	R-3.7	Orange	12 oz.	—	Aerosol Can	UL Classified	**48WK19**	1
Gap Filler	1" Gaps and Cracks	2-4:1	R-3.7	Cream	12 oz.	—	Aerosol Can		**48WK15**	1
	3" Big Gap Filler	2-4:1	R-3.7	Cream	12 oz.	—	Aerosol Can		**48WK16**	1
Pestblock	Pest Control	2-4:1	R-3.7	Gray	12 oz.	—	Aerosol Can		**48WK18**	1
Window and Door	Window and Door	2-4:1	R-3.7	Yellow	12 oz.	—	Aerosol Can	UL Classified, ASTM, AAMA	**48WK17**	1
Handi-Foam™										
Spray Foam Sealant	Fire Barrier	2-3:1	R-4.5	Orange	12 oz.	1996 linear ft. @ ¼" Bead	Aerosol Can	ASTM E84/UL 723	**15Z030**	12
	Fire Barrier	2-3:1	R-4.5	Orange	24 oz.	4403 Linear ft. @ ¼" Bead	Aerosol Can		**15Z032**	12
	Gaps and Cracks	2-3:1	R-4.5	Black	12 oz.	1996 linear ft. @ ¼" Bead	Aerosol Can		**2RPJ6**	1
	Window and Door	2-3:1	R-4.7	Cream	24 oz.	3993 Linear ft. @ ¼" Bead	Aerosol Can		**45TP66**	1
Todol										
IPF Foam Kit	Pest Control	7%	6.0/inch	Yellow	24 oz.	2000 cu. in.	Aerosol Can	ASTM E-84	**45TP92**	1
Pur Black	Multipurpose	7%	R-6	Black	32 oz.	2820 cu. in., 19 Board ft., 1200 Linear ft. @ ½" Bead	Aerosol Can		**9HYA2**	1
Pur Black NF	Multipurpose	30%	5.0/inch	Black	16 oz.	1060 cu. in.	Aerosol Can		**45TP90**	1
Pur Fill NF	Multipurpose	30%	5.0/inch	Yellow	24 oz.	1920 cu. in.	Aerosol Can		**45TP89**	1
Pur Fill NF 12	Multipurpose	30%	5.0/inch	Yellow	12 oz.	960 cu. in.	Aerosol Can		**45TP88**	1
Touch N' Seal										
Construction, Masonry, Metalworking	Construction, Masonry, Metalworking	—	—	White	20.0 oz.	—	—	—	**499H99**	1
All Season	Multipurpose	2-3:1	R-4.5	Beige	24 oz.	2230 ft. per ¼" Bead	Aerosol Can	ICC-ES ESR-1926, ASTM E-84	**444A74**	1
BlackFoam Pest Block	Multipurpose	2-3:1	R-4.5	Black	24 oz.	3200 ft. per ¼" Bead	Aerosol Can	ASTM E-84, UL 1715	**444A75**	1
Fireblock, Gun Foam II	Fire Barrier	2-3:1	R-7.12	Beige	24 oz.	3200 linear ft. per ¼" Bead	Aerosol Can	UL 1715, ASTM E-814, ICC-ES ESR-1926	**444A73**	1
Landscape Sealant for Ponds & Waterfalls	Multipurpose	2-3:1	R-5	Black	12 oz.	3200 linear ft. per ¼" Bead	Aerosol Can	Fish and Plant Safe	**444A76**	1
Mouse Shield with Pesticide	Pest Control	2-3:1	R-4	Beige	12 oz.	396 Linear ft. per ⅜" Bead	Aerosol Can	ASTM E-814, UL-1715, UL-723	**444A77**	1
No Warp Window & Door Sealant	Multipurpose	2-3:1	R-4.5	White	12 oz.	2200 linear ft. per ¼" Bead	Aerosol Can	ASTM E-84	**444A72**	1
Quick Cure	Multipurpose	2-3:1	R-4.9	Beige	12 oz.	499 Linear ft. @ ½" Bead	Aerosol Can	ASTM E-84, ASTM E-96, ASTM C-273, ASTM C-518, ASTM E-814, ASTM C-1536, ASTM D-1621, ASTM D-1622, ASTM D-1623	**444A70**	1
	Multipurpose	2-3:1	R-4.9	Beige	24 oz.	499 Linear ft. @ ½" Bead	Aerosol Can	ASTM E-84, ASTM E-96, ASTM C-273, ASTM C-273, ASTM C-518 R, ASTM E-814, ASTM C-1536, ASTM D-1621, ASTM D-1622, ASTM D-1623	**444A71**	1
Reddy Insulation	Gaps and Cracks	2-3:1	R-4	Beige	11 oz.	499 Linear ft. @ ½" Bead	Aerosol Can	UL Classified	**444A69**	1
Mine Block Mortar	Multipurpose	1:1	R-5	Beige	20.0 lb.	—	Box	UL-723/ASTM E-84, ASTM E-119, ASTM E-72-80	**444C03**	1
Quick Cure Fireblock, High Yield	Gaps and Cracks	2-3:1	R-4.9	Beige	10.0 lb.	15,000 Liner ft.	Cylinder	ICC-ES ESR-1926, UL-1715,	**444A78**	1
	Gaps and Cracks	2-3:1	R-4.9	Beige	16.0 lb.	24,000 Linear ft.	Cylinder	ASTM E-84, ASTM E-814	**444A79**	1
Quick Cure Fireblock, Reduced Expansion	Fire Barrier	6-8:1	R-5	Beige	10.0 lb.	14,700 ft.	Cylinder	ASTM E-84, ASTM C-518 R-Value, UL-1715	**444C09**	1
	Fire Barrier	6-8:1	R-5	Beige	16.0 lb.	24,080 ft.	Cylinder		**444C10**	1
2-Component										
FROTH-PAK™										
Froth-Pak™ 12	Multipurpose	2-4:1	R-6.1	Cream	3.3 lb.	12 sq. ft.	Two Cylinders	UL Classified	**48WK25**	1
Froth-Pak™ 200	Multipurpose	3-5:1	R-6.1	Cream	41 lb.	200 sq. ft. @ 1" Thickness	Two Cylinders		**48WK26**	1
Froth-Pak™ 210	Multipurpose	3-6:6	R-6.6	Cream	42.0 lb.	210 sq. ft.	Two Cylinders		**48WK27**	1
Handi-Foam™										
Spray Foam Sealant Kit	Insulation	0.167	R-6 to 7.2	Cream	41 lb.	17 cu. ft., 205 Board ft.	Two Cylinders	UL-94 Rated, ASTM E-84 Class 1(A)	**2TE59**	1
	Insulation	0.167	R-6 to 7.2	Cream	115.7 lb.	50 cu. ft., 605 Board ft.	Two Cylinders		**2TE61**	2
Touch N' Seal										
Foam Kit, 1.75 PCF, 200FR	Fire Barrier	6-8:1	R-5	Beige	28.44 lb.	200 Board ft.	Two Cylinders	ASTM G-21, ASTM C-518 R, ASTM E-84	**444A89**	1
Foam Kit, 1.75 PFC	Multipurpose	6-8:1	R-5	Beige	2.27 lb.	15 Board ft.	Two Cylinders	ASTM G-21, ASTM C-518 R,	**444A85**	1
	Multipurpose	6-8:1	R-5	Beige	28.44 lb.	200 Board ft.	Two Cylinders	ASTM E-84, ASTM C-423	**444A87**	1
Slow Rise 120 1.75 PCF	Multipurpose	6-8:1	R-5.7	Beige	28.43 lb.	200 Board ft.	Two Cylinders	ASTM E-84, 33 CFR §183.144	**444A81**	1
Spray Foam Kit 3.0 pcf	Roof and Gutter	8:1	R-5.9	Beige	26.27 lb.	120 Board ft.	Two Cylinders	ASTM G-21, ASTM C-518 R-Value	**444A80**	1
Spray Foam Sealant	Multipurpose	6-8:1	R-5	Beige	15.64 lb.	110 Board ft.	Two Cylinders	ASTM G-21, ASTM C-518 R,	**444A86**	1
	Multipurpose	10-12:1	R-5	Beige	28.44 lb.	300 Board ft.	Two Cylinders	ASTM E-84, ASTM C-423	**444A82**	1
Accessories										
DAP®										
DRAFTSTOP™ 812 Foam & Applicator Cleaner									**29RV19**	1
Foam Applicator, For Use With Adhesives, Canned Foam, 12"									**491T59**	1
GREAT STUFF PRO™										
Spray Foam Dispensing Unit , For 20 to 30 oz. Bottles, For Dispensing Spray Foam Products									**48WK24**	1
Spray Foam Dispensing Unit Cleaner, 12 oz., Used to Dissolve and Remove Uncured Polyurethane Foam									**48WK23**	1
Handi-Foam™										
Spray Foam Dispensing Unit Cleaner, 12 oz., For Cleaning One-Component Dispensing Units									**4KK26**	1

Gorilla Glue®

- Full cure: 24 hr.

Dries White and All-Purpose Glue—Bonds wood, stone, metal, ceramic, and more. White dries faster. Waterproof.
- Temp. range: -40° to 212°F

Super Glue—Bonds to most common building materials. Anticlog cap with a metal pin inside ensures an airtight seal for maximum reusability.
- Temp. range: -65° to 220°F

Wood Glue—Bonds wood-to-wood without leaving an orange afterglow. FDA approved for indirect food contact.
- Temp. range: 0° to 150°F



No. 1TMA4



No. 2KKF3



No. 453U45



No. 30WM02



No. 4GZK3

Item	Characteristics	Color	Clamp Time	Size	Mfr. Model	Item No.
All Purpose Glue	Extremely Strong Bonding Power	Brown	1 to 2 hr.	2 oz.	5000201	1TLZ9
		Brown	1 to 2 hr.	4 oz.	5000413	1TMA1
		Brown	1 to 2 hr.	8 oz.	5000802	1TMA2
		Brown	1 to 2 hr.	18 oz.	5001803	1TMA3
		Brown	1 to 2 hr.	36 oz.	5003601	1TMA4
Dries White Glue	Weatherproof, Waterproof, Sandable, Paintable, Stainable, and Dries White	White	30 to 60 min.	2 oz.	5201208	2KKF2
Dries White Glue Pen		White	30 to 60 min.	0.75 oz.	5201111	2KKF3
Glue	Strong, Non Foaming, Dries Clear	Clear	1 to 2 hr.	1.75 oz.	4500102	453U44
		Clear	1 to 2 hr.	3.75 oz.	4537502	453U45
Super Glue	Polyurethane Adhesive, Rubber Toughened, Impact Resistant, Anti-Clog Tip	Clear	10 to 45 sec.	(2) 3g Tubes	7800102	4GZK5
	Multipurpose, Impact Resistant, Anti-Clog Cap, No Run, Easy to Use	Clear	10 to 45 sec.	0.53 oz.	7600101	30WM02
	Rubber Toughened for Impact Strength	Clear	10 to 45 sec.	1 lb.	78007	16V096
	Polyurethane Adhesive, Rubber Toughened, Impact Resistant, Anti-Clog Tip	Clear	10 to 45 sec.	15g	7805002	4GZK6
Wood Glue	Dries Natural Color, Water-Resistant, Non-Toxic, PVA, FDA Approved For Direct Food Contact, Water Clean-Up, Solvent Resistant	Cream	20 to 30 min.	8 oz.	6200002	4GZK3
		Cream	20 to 30 min.	18 oz.	6205001	4GZK4

DAP Weldwood® Titebond GREENchoice ADHESIVES

Wood Glues

DAP® WELDWOOD®

Carpenter's Glue—Sets fast, grips tight, and sands easily. Solvent resistant. Nontoxic.

Wood Glue—Powdered, urea formaldehyde activates by mixing with water and forms a high-strength bond. Low VOC. Meets Fed. Spec. A-A-3052.

TITEBOND® III ULTIMATE WOOD GLUE

Waterproof formula meets ANSI/HPVA Type I water-resistance specification. Has longer open assembly time and lower application temperature. Sands easily. Interior/exterior.

TITEBOND® II

Premium and Extend Wood Glue—Meet ANSI Type II water-resistance specification. Nos. 3KRU6 and 3KRU7 have a longer set time. Interior/exterior.

Wood Glue—Great for general woodworking with porous and semiporous materials. ANSI Type II.

TITEBOND® ORIGINAL WOOD GLUE

Aliphatic-resin glue sets quickly to reduce clamp time. Resists heat, solvents, and mildew. Nos. 3KRU4 and 4EML7 have a longer set time.

TITEBOND®

Quick & Thick, No Run/No Drip—Glue dries twice as fast and three times as thick as traditional PVAs. Bonds to multiple surfaces.

Polyurethane Wood Glue—Combines a long 20-min. working time with a short 45-min. clamping time. Waterproof formula is excellent for wood to wood, metals, ceramics, most plastics—porous and nonporous materials. ANSI Type I and Type II.

Type	Color	Begins to Harden	Size	Item No.
DAP® Weldwood Carpenter's Wood Glue				
Aliphatic Resin	Yellow	10 min.	1 qt.	5UFR4
		—	1 gal.	5E104
DAP® Weldwood Wood Glue				
Resin	Tan	—	1 lb.	10L514
		—	4.5 lb.	10L515
Titebond® III Ultimate Wood Glue				
Water-Resistant	Tan	10 Min.	4 oz.	3KZJ4 *
		10 min.	8 oz.	1FCC1 *
		10 min.	16 oz.	1FCC2 *
		10 min.	1 gal.	1FCC3 *
Titebond® II Premium Wood Glue				
Exterior	Honey Cream	5 Min.	4 oz.	3KZJ6 *
		5 min.	8 oz.	3KRU5 *
		5 min.	16 oz.	1FCC4 *
		5 min.	1 gal.	1FCC5 *
Titebond® II Extended Wood Glue				
Slow Set	Cream	15 min.	16 oz.	3KRU6
		15 min.	1 gal.	3KRU7
Titebond® II Wood Glue				
Dark	Brown	5 min.	8 oz.	4EMP2
		5 min.	16 oz.	3KRU8
		5 min.	1 gal.	4EMP3
Interior	White	5 min.	1 gal.	1FCC8
		5 min.	5 gal.	3KRU2
Titebond® II Original Wood Glue				
Heat- and Solvent-Resistant	Yellow	5 min.	4 oz.	4EML7
		5 min.	8 oz.	3KRU3
		5 min.	16 oz.	1FCC6
		5 min.	1 gal.	1FCC7
Titebond® II Original Extended Wood Glue				
Slow Set	Yellow	15 min.	16 oz.	3KRU4
		15 min.	1 gal.	4EML8
Titebond® Quick & Thick, No Run/No Drip				
Quick & Thick	Beige	3 to 5 min.	8 oz.	3KRU9
No Run, No Drip		3 to 5 min.	16 oz.	4EMP4
Titebond® Polyurethane Wood Glue				
Polyurethane	Brown	3 to 25 min.	4 oz.	4EML9
		3 to 25 min.	8 oz.	3KRV1
		3 to 25 min.	12 oz.	4EMN1

** FDA approved for indirect food contact (cutting board).*



No. 5E104



No. 1FCC1



No. 1FCC4



No. 1FCC8



No. 16V093

Gorilla Tape

Weatherproof, airtight tape is easy to tear by hand. For indoor and outdoor use. **Repair Tape—**Fix, patch, seal, hold, and protect almost any surface.

Double-Sided Tape—Bonds plastic, metal, wood, glass, brick, ceramic, and stone. No. 45DV48 holds up to 15 lb. on smooth and rough surfaces for easy hanging; No. 49UU23 is an industrial strength double-sided tape with a heavy duty bond. Holds up to 30 pounds. Ideal for indoor and outdoor projects and sticks to smooth and rough surfaces.

Duct Tape—Double-thick adhesive grips smooth, rough, and uneven surfaces. Withstands moisture, UV rays, and temperature extremes.

Description	Thickness	Color	W	L	Mfr. Model	Item No.
Duct Tape	7 mil	Clear	1½"	5 yd.	6015002	**45DV43**
	17 mil	Black	1"	30 ft.	6100101	**16V093**
	17 mil	Black	1.88"	12 yd.	60123	**1TMA5**
	17 mil	Black	1.88"	35 yd.	6035062	**1TMA6**
	17 mil	Black	2.88"	30 yd.	6003001	**5REA3**
Double-Sided Tape	17 mil	Clear	1"	5 ft.	6065001	**45DV48**
	43 mil	Black	1"	5 ft.	6055002	**49UU23**
Repair Tape	8.20 mil	Clear	2"	9 yd.	6027002	**30WM01**



Heavy-Duty
No. 4YR48



PRO2-100
No. 20YV41



PRO 8000A
No. 20YV42

Hot Glue Guns and Sticks

CORDLESS GLUE GUNS

Master PortaPro® Glue Gun

Butane heat source has push-button piezo ignition, glue flow cutoff, fuel flow safety lock, and fuel-refill indicator. No. 1UBG6 includes 4 brass nozzles, eight ½" x 6" glue sticks, and plastic case.

ELECTRIC GLUE GUNS

12-Pc. Heavy-Duty Glue Gun Kit

Includes 3 special-use nozzles, nonstick work pad, 6 high-temperature glue sticks, wire stand, and carrying case.

DualMelt Pro™ Glue Gun Kit

Dual-temperature glue gun has On/Off light, protected nozzle, fold-out stand, cushion grip, slip-resistant trigger action, and auto shutoff.

Heavy-Duty Glue Guns

High temperature setting bonds cardboard, ceramics, leather, light metals, and wood. Low temperature setting bonds heat-sensitive parts such as fabrics, foam materials, and plastics.

SUREBONDER®

No. 36FL79 professional gun is a light-duty, high-temperature gun. Nos. 20YV40 and 20YV41 are medium-duty high-temperature guns. No. 20YV42 is designed with dual heaters and features a 2-min. quick heat-up time. No. 39AN01 is a high-temperature gun for fixed temperature applications. Heavy-duty gun No. 20YV44 features cartridge heaters with adjustable temperatures.

Description	Watts	Glue Stick Capacity	Feed	Brand	Mfr. Model	Item No.
Cordless Glue Guns						
PortaPro® Butane Glue Gun	Equivalent to 200	½ in	3-Finger Trigger	Master Appliance	GG-100	**5PYT8**
PortaPro® Butane Glue Gun Kit	Equivalent to 200	½ in	3-Finger Trigger	Master Appliance	GG-100K	**1UBG6**
Rechargable	60 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	CL-800F	**36FL77**
Rechargeable	60 W	7/16 in	Trigger	Surebonder	Pro2-60KIT	**49AC27**
Electric Glue Guns						
12-Pc. Heavy-Duty Glue Gun Kit	100 W	½ in	Lever	Westward	—	**4YR47**
DualMelt Pro™ Glue Gun Kit	80 W	7/16 in	Trigger	STANLEY	GR100	**1XHV3**
DualMelt™	80 W	7/16 in	Trigger	STANLEY	GR25-2	**24T316**
DualMelt™ Heavy Duty	80 W	7/16 in	Manual	STANLEY	STHT72317	**31CN65**
Heavy-Duty	80 W	½ in	Lever	Westward	—	**4YR48**
Heavy-Duty	220 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-220HT	**39AN01**
Heavy-Duty	220 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-220	**20YV44**
Light-Duty	30 W	7/16 in	Trigger	STANLEY	GR20	**24T309**
Light-Duty	80 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	HE750	**36FL79**
Light-Duty, Ergonomic	80 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-80	**20YV40**
Light-Duty Glue Gun	40 W	½ in	Trigger	Arrow	TR400	**3RAZ7**
Medium-Duty, Interchangable Nozzle	100 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-100	**20YV41**
Medium-Duty, Interchangable Nozzle	180 W	7/16 in	Trigger	Surebonder	PRO8000A	**20YV42**
Mini Hot Melt Glue Gun	15 W	¼ in	Trigger	STANLEY	GR10	**3NZW9**
Professional Glue Gun	40 W	½ in	3-Finger Lever	Arrow	TR550	**3RAZ6**

For Use With	Color	Begins to Harden	Size	Mfr. Model	Item No.	Pkg. Qty.
Hot Melt Glue Sticks						
Westward						
9/32" Capacity Glue Gun	Transparent	30 to 60 sec.	0.28 x 4"	23X751	**23X751**	24
29/64" Capacity Glue Gun	Transparent	30 to 60 sec.	0.45 x 4"	23X752	**23X752**	6
	Transparent	30 to 60 sec.	0.45 x 4"	23X753	**23X753**	24
	Transparent	30 to 60 sec.	0.45 x 10"	23X754	**23X754**	12
½" Electric Glue Guns	Transparent	30 to 60 sec.	0.43 x 10"	—	**4YR49**	24
	Transparent	30 to 60 sec.	0.43 x 10"	—	**4YR50**	100
29/64" Capacity Glue Gun	Transparent	50 to 60 sec.	0.45 x 4"	23X755	**23X755**	6
	Transparent	50 to 60 sec.	0.45 x 4"	23X756	**23X756**	30
	Yellow	35 to 50 sec.	0.45 x 4"	23X757	**23X757**	6
	Opaque	30 to 60 sec.	0.45 x 10"	23X758	**23X758**	12
STANLEY						
Mfr. No. GR10 Glue Gun	Clear	—	0.28"	GS10DT	**2FDB9**	24
Surebonder						
Standard Diameter (½",7/16",0.43",0.45") Glue Guns	Tan/Amber	10 sec.	7/16" x 15"	711R15-5P	**20YV47**	60
	Tan/Amber	10 sec.	7/16" x 15"	711R15-25P	**20YV48**	300
	Clear	60 sec.	7/16" x 4"	DT-6	**20YV46**	6
	Clear	60 sec.	7/16" x 10"	725R10-1P	**20YV49**	18
	Clear	60 sec.	7/16" x 10"	725R10-5P	**20YV50**	90
	Clear	60 sec.	7/16" x 10"	725R10-25P	**20YV51**	450

For Use With	Color	Begins to Harden	Size	Mfr. Model	Item No.	Pkg. Qty.
20YV45, Not For Use With 3M Glue Gun	Tan/Amber	5 sec.	5/8" x 10"	Q601-5P	**20YV52**	53
	Tan/Amber	10 sec.	5/8" x 10"	Q711-5P	**20YV53**	53
	Tan/Amber	10 sec.	5/8" x 10"	Q711-25P	**20YV54**	265
5E124, 3M Polygun TC	Tan/Amber	10 sec.	5/8" x 2"	TC-711-11P	**20YV58**	600
3M						
Mfr. No. AE II	Tan	35 sec.	0.45"	3762	**1VAK9**	154
	Clear	50 sec.	½	3792	**1VAL1**	154
Mfr. No. POLYGUN TC	Tan	35 sec.	5/8	3762	**5E119**	605
	Clear	50 sec.	5/8	3792	**5E121**	605
Mfr. No. POLYGUN EC	Clear	40 sec.	5/8	3792	**5E122**	165
	Translucent Light Amber	30 sec.	5/8	3762	**3UB90**	165
Scotch-Weld PG II with Speed loader	Tan	35 sec.	1 x 3	3762	**2GKJ1**	264
	Light Amber	25 sec.	1 x 3	3762	**2GKJ2**	264
Scotch-Weld TC with Quad rack Converter	Tan	35 sec.	5/8 x 8	3762	**2GKH9**	165
	Tan	50 sec.	5/8 x 8	3738	**2GKK4**	165
	Clear	40 sec.	5/8 x 8	3764	**2GKH7**	165
	Clear	50 sec.	5/8 x 8	3792	**2GKN4**	165
Mfr. No. POLYGUN LT	Clear	40 sec.	5/8	3792	**4ZH61**	605

For replacement cases, go to Grainger.com® and search for "Drill Bit Cases and Cabinets."

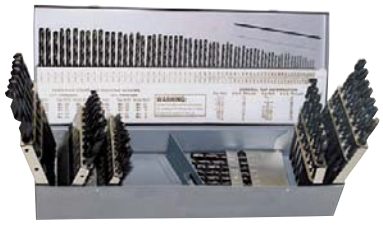
Chicago-Latrobe® CLE-LINE. WESTWARD®

HSS and Cobalt Drill Bit Sets

- All sets include metal case (except Silver & Deming)



8-Pc. Set
No. 2VTE4



115-Pc. Set
No. 1G549

FRACTIONAL SIZES

Point Angle	Type	Material	Finish	List No.	Drill Bit Case Type	Brand	Item No.
8-Pc ½ Inch Reduced Shank							
118 °	½" Reduced Shank	HSS	Black Oxide	190F	Metal Index	Chicago-Latrobe	**6WUC7**
8-Pc. 9⁄16 To 1 By 16ths, Silver & Deming							
	½" Reduced Shank	Cobalt	Straw/ Bronze	190C	Metal Index	Chicago-Latrobe	**2VTE4**
118 °	½" Reduced Shank	HSS	Black Oxide	190	Plastic Pouch	Chicago-Latrobe	**1U194**
	½" Reduced Shank	HSS	Black Oxide	190	Metal Index	Chicago-Latrobe	**1V691**
	½" Reduced Shank	HSS	Black Oxide	190F	Plastic Pouch	Chicago-Latrobe	**1V693**
13-Pc. 1⁄16 To ¼ By 64ths, Jobbers Length							
	Standard	Cobalt	Straw/ Bronze	550	Metal Drill Index	Chicago-Latrobe	**1U198**
	Standard	Cobalt	TiN	2550	Metal Drill Index	Chicago-Latrobe	**6WUE4**
135 °	Standard	HSS	Black Oxide	1801	Metal Drill Index	Cle-Line	**1BR72**
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**6WUA8**
	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKG4**
	Standard	HSS	TiAlN	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTX0**
	Standard	HSS	TiCN	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTX3**
185 °	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M463**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U100**
	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**2X470**
15-Pc. 1⁄16 To ½ By 32nds, Jobbers Length							
	⅜" Reduced Shank	HSS	Black Oxide	—	Metal Drill Index	Westward	**5UDP3**
	Parabolic	HSS	Black/Gold	1872	Metal Drill Index	Cle-Line	**1TNZ5**
	Parabolic	HSS	TiN	1872TN	Metal Drill Index	Cle-Line	**1TPC9**
	Standard	Cobalt	TiN	2550	Metal Drill Index	Chicago-Latrobe	**6WUD5**
135 °	Standard	Cobalt	Straw/ Bronze	550ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ5**
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**1V687**
	Standard	HSS	Black Oxide	1801	Metal Drill Index	Cle-Line	**1BR67**
	Standard	HSS	TiN	150ASPTN	Metal Drill Index	Chicago-Latrobe	**6ZKG2**
	Standard	HSS	TiAlN	150ASPTC	Metal Drill Index	Chicago-Latrobe	**6WTW7**
	Standard	HSS	TiCN	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTX2**
	Left Hand	HSS	Bright (Uncoated)	150L	Metal Drill Index	Chicago-Latrobe	**4EV07**
185 °	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M467**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U104**
	Standard	HSS	TiN	150T	Metal Drill Index	Chicago-Latrobe	**1V698**
	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**2X471**
15-Pc. 1⁄16 To ½ By 32nds, Mechanics Length							
135 °	Standard	HSS	Black/Gold	1876	Metal Index	Cle-Line	**4GB65**
16-Pc ½ Inch Reduced Shank							
118 °	½" Reduced Shank	HSS	Black Oxide	190	Plastic Pouch	Chicago-Latrobe	**6WUE3**
21-Pc. 1⁄16 To ⅜ By 64ths, Jobbers Length							
	Standard	Cobalt	TiN	2550	Metal Drill Index	Chicago-Latrobe	**6WUE5**
	Standard	HSS	Black Oxide	—		Westward	**2UFD8**
135 °	Standard	HSS	Black Oxide	1801	Metal Drill Index	Cle-Line	**1BR50**
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**6WUC1**
	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKG6**
	Standard	HSS	TiCN	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTX5**
	Left Hand	HSS	Bright (Uncoated)	150L	Metal Drill Index	Chicago-Latrobe	**6WUD9**
185 °	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M465**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U102**
	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**4X780**
29-Pc. 1⁄16 To ½ By 64ths, Jobbers Length							
	⅜" Reduced Shank	HSS	Black Oxide	—	Metal Drill Index	Westward	**5UDP4**
	Parabolic	HSS	Black/Gold	1872	Metal Drill Index	Cle-Line	**1TNZ6**
	Parabolic	HSS	TiN	1872TN	Metal Drill Index	Cle-Line	**1TPD1**
	Standard	Cobalt	Straw/ Bronze	1802	Metal Drill Index	Cle-Line	**1BR43**
	Standard	Cobalt	Straw/ Bronze	550	Metal Drill Index	Chicago-Latrobe	**1U196**
135 °	Standard	Cobalt	Straw/ Bronze	550ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ6**
	Standard	Cobalt	TiN	2550	Metal Drill Index	Chicago-Latrobe	**6WUD4**
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**1G547**
	Standard	HSS	Black Oxide	1801	Metal Drill Index	Cle-Line	**1BR44**
	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKH1**
	Standard	HSS	TiCN	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTX9**
	Standard	HSS	Black/Gold	1878	Round Plastic Index	Cle-Line	**36XE45**
	Left Hand	HSS	Bright (Uncoated)	150L	Metal Drill Index	Chicago-Latrobe	**4EV02**
185 °	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M469**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U110**
	Standard	HSS	TiN	150T	Metal Drill Index	Chicago-Latrobe	**1V696**
	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**6X001**
29-Pc. 1⁄16 To ½ By 64ths, Mechanics Length							
	Standard	HSS	Black/Gold	1875	Metal Index	Cle-Line	**4GB66**
135 °	Standard	HSS	Black/Gold	1875R	Round Plastic Index	Cle-Line	**36XE46**
33-Pc ½ Inch Reduced Shank							
118 °	½" Reduced Shank	HSS	Black Oxide	190	Metal Index	Chicago-Latrobe	**6WUC6**
33-Pc ½ Inch Reduced Shank, 3 Flats on Shank							
118 °	½" Reduced Shank, 3 Flats on Shank	HSS	Black Oxide	190F	Metal Index	Chicago-Latrobe	**6WUA9**
115-Pc. 1⁄16 To ½ By 64ths, Jobbers Length							
135 °	Standard	Cobalt	Straw/ Bronze	550	Metal Drill Index	Chicago-Latrobe	**1G915**

WIRE SIZES

Point Angle	Type	Material	Finish	List No.	Drill Bit Case Type	Brand	Item No.
20-Pc. #61 to #80, Jobbers Length							
135 °	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ2**
	Standard	HSS	TiN	150ASPTN	Metal Drill Index	Chicago-Latrobe	**6ZKH7**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1V717**
185 °	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1U129**
	Standard	HSS	TiN	150T	Metal Drill Index	Chicago-Latrobe	**6WUE6**
60-Pc. #1 to #60, Jobbers Length							
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**1G545**
135 °	Standard	Cobalt	Straw/Bronze	550	Metal Drill Index	Chicago-Latrobe	**1U202**
	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKH3**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U131**
185 °	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**2A736**
	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M471**
	Standard	HSS	TiN	150T	Metal Drill Index	Chicago-Latrobe	**6WUC8**
80-Pc. #1 to #80, Jobbers Length							
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**6WUA5**

LETTER SIZES

Point Angle	Type	Material	Finish	List No.	Drill Bit Case Type	Brand	Item No.
26-Pc. A To Z, Jobbers Length							
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**1G543**
135 °	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKH2**
	Standard	Cobalt	Straw/Bronze	550	Metal Drill Index	Chicago-Latrobe	**1V710**
	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M473**
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U133**
	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**2A737**
	Standard	HSS	TiN	150T	Metal Drill Index	Chicago-Latrobe	**6WUE0**

METRIC SIZES

Point Angle	Type	Material	Finish	List No.	Drill Bit Case Type	Brand	Item No.
11-Pc. 1mm To 6mm by 0.5mm, Jobbers Length							
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U137**
13-Pc. 1mm to 7mm By 0.5mm, Jobbers Length							
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**6WUA7**
19-Pc. 1mm to 10mm by 0.5mm, Jobbers Length							
135 °	Standard	Cobalt	Straw/Bronze	550ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ7**
25-Pc. 1mm To 13mm By 0.5mm, Jobbers Length							
	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ4**
135 °	Standard	Cobalt	Straw/Bronze	550ASP	Metal Drill Index	Chicago-Latrobe	**6WTZ8**
	Standard	Cobalt	Straw/Bronze	550	Metal Drill Index	Chicago-Latrobe	**6WUA0**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U139**
185 °	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**5BP06**
118-Pc. 1mm To 13mm, Jobbers Length							
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**2VTE5**

COMBINATION SETS

Point Angle	Type	Material	Finish	List No.	Drill Bit Case Type	Brand	Item No.
8-Pc ½ Inch Reduced Shank							
118 °	½ Inch Reduced Shank	HSS	Black Oxide	190F	Metal Index	Chicago-Latrobe	**6WUC7**
16-Pc ½ Inch Reduced Shank							
118 °	½ Inch Reduced Shank	HSS	Black Oxide	190	Plastic Pouch	Chicago-Latrobe	**6WUE3**
33-Pc ½ Inch Reduced Shank							
118 °	½ Inch Reduced Shank	HSS	Black Oxide	190	Metal Index	Chicago-Latrobe	**6WUC6**
33-Pc ½ Inch Reduced Shank, 3 Flats on Shank							
118 °	½ Inch Reduced Shank, 3 Flats on Shank	HSS	Black Oxide	190F	Metal Index	Chicago-Latrobe	**6WUA9**
114-Pc 1⁄16 to ½ by 64ths, 1.0 to 13.0 by 0.5mm, #1 to #60, Jobbers Length							
185 °	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**6WUA6**
115-Pc 1⁄16 to ½ by 64ths, A to Z, #1 to #60, Jobbers Length							
135 °	Standard	HSS	Black Oxide	150ASP	Metal Drill Index	Chicago-Latrobe	**1G549**
	Standard	HSS	TiN	150ASP	Metal Drill Index	Chicago-Latrobe	**6ZKH9**
	Standard	HSS	Black Oxide	150	Metal Drill Index	Chicago-Latrobe	**1U144**
185 °	Standard	HSS	Black Oxide	1899	Metal Drill Index	Cle-Line	**1A522**
	Standard	HSS	Bright (Uncoated)	150D	Metal Drill Index	Chicago-Latrobe	**1M475**



WESTWARD® CLE-LINE.

Maintenance Grade Jobbers Length HSS Drill Bits, 118°

- Conventional point

These drills are for use on steel, stainless steel, and cast iron.

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE Westward Item No.	BLACK OXIDE Cle-Line® List# 1899 Item No.
1/32 in	0.0313	1/2 in	1 3/8 in	—	1BR76
3/64 in	0.0469	3/4 in	1 3/4 in	—	1BR77
1/16 in	0.0625	7/8 in	1 7/8 in	—	5X952
5/64 in	0.0781	1 in	2 in	—	5X953
3/32 in	0.0938	1 1/4 in	2 1/4 in	—	5X954
7/64 in	0.1094	1 1/2 in	2 5/8 in	—	5X955
1/8 in	0.1250	1 5/8 in	2 3/4 in	2UFA6 *	5X956
9/64 in	0.1406	1 3/4 in	2 7/8 in	—	5X964
5/32 in	0.1563	2 in	3 1/8 in	—	5X965
11/64 in	0.1719	2 1/8 in	3 1/4 in	—	5X966
	0.1719	2 1/4 in	3 1/4 in	4UL49	—
3/16 in	0.1875	2 5/16 in	3 1/2 in	2UFA7	5X967
13/64 in	0.2031	2 7/16 in	3 5/8 in	—	5X968
7/32 in	0.2188	2 1/2 in	3 3/4 in	4UL52	5X969
15/64 in	0.2344	2 5/8 in	3 7/8 in	4UL53	5X970
1/4 in	0.2500	2 3/4 in	4 in	4UL54	5X971
17/64 in	0.2656	2 7/8 in	4 1/8 in	4UL55	5X972
9/32 in	0.2813	2 15/16 in	4 1/4 in	4UL56	5X973
19/64 in	0.2969	3 1/16 in	4 3/8 in	4UL57	5X974
5/16 in	0.3125	3 3/16 in	4 1/2 in	2UFA8	5X975
21/64 in	0.3281	3 5/16 in	4 5/8 in	4UL59	5X976
11/32 in	0.3438	3 7/16 in	4 3/4 in	4UL60	5X977
23/64 in	0.3594	3 1/2 in	4 7/8 in	4UL61	5X978
3/8 in	0.3750	3 5/8 in	5 in	2UFA9 †	5X979
25/64 in	0.3906	3 3/4 in	5 1/8 in	4UL63 †	5X980
13/32 in	0.4063	3 7/8 in	5 1/4 in	4UL64 †	5X981
27/64 in	0.4219	3 15/16 in	5 3/8 in	4UL65 †	5X982
7/16 in	0.4375	4 1/16 in	5 1/2 in	2UFC1 †	5X983
29/64 in	0.4531	4 1/8 in	5 5/8 in	4UL67 †	—
	0.4531	4 3/16 in	5 5/8 in	—	5X984
15/32 in	0.4688	4 5/16 in	5 3/4 in	4UL68 †	5X985
31/64 in	0.4844	4 3/8 in	5 7/8 in	4UL69 †	5X986
1/2 in	0.5000	4 1/2 in	6 in	2UFC2 †	5X987

** Sold as pkg. of 2. † 3/8" reduced shank.*


Bright


TiN

Chicago-Latrobe®

Production Grade Jobbers Length HSS Drill Bits, 118°

- Conventional point, except List# 150K, which is split point

Black oxide drills are for steel, stainless steel, and cast iron. Bright finish drills are for low carbon and softer metals such as aluminum. Left-hand helix drills are for machine spindles rotating counter-clockwise. Black oxide List#150K split point drills eliminate walking. TiN coated drills are for alloy steel, stainless steel, cast iron, brass, bronze, plastic and fiberglass.

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE List# 150 Item No.	Bright (Uncoated) Finish List# 150D Item No.	BLACK OXIDE List# 150K Item No.	Bright (Uncoated) Finish w/Left Hand Helix List# 150L Item No.	TiN List# 150T Item No.
1/64 in	0.0156	3/16 in	3/4 in	—	1F741	—	—	—
1/32 in	0.0313	1/2 in	1 3/8 in	—	1F743	—	4DG88	—
3/64 in	0.0469	3/4 in	1 3/4 in	1F487	1F745	—	4DG89	—
1/16 in	0.0625	7/8 in	1 7/8 in	1F489	1F747	1P440	4DG90	1V832
5/64 in	0.0781	1 in	2 in	1F491	1F749	1P442	4DG91	1V834
3/32 in	0.0938	1 1/4 in	2 1/4 in	1F493	1F751	1P444	4DG92	1V836
7/64 in	0.1094	1 1/2 in	2 5/8 in	1F495	1F753	1P446	4DG93	1V838
1/8 in	0.1250	1 5/8 in	2 3/4 in	1F497	1F755	1P448	4DG94	1V840
9/64 in	0.1406	1 3/4 in	2 7/8 in	1F499	1F757	1P450	4DG95	1V842
5/32 in	0.1563	2 in	3 1/8 in	1F501	1F759	1P452	4DG96	1V844
11/64 in	0.1719	2 1/8 in	3 1/4 in	1F503	1F761	1P454	4DG97	1V846
3/16 in	0.1875	2 5/16 in	3 1/2 in	1F505	1F763	1P456	4DG98	1V848
13/64 in	0.2031	2 7/16 in	3 5/8 in	1F507	1F765	1P458	4DG99	1V851
7/32 in	0.2188	2 1/2 in	3 3/4 in	1F509	1F767	1P460	4DH01	1V853
15/64 in	0.2344	2 5/8 in	3 7/8 in	1F511	1F769	1P462	4DH02	1V855
1/4 in	0.2500	2 3/4 in	4 in	1F513	1F771	1P464	4DH03	1V857
17/64 in	0.2656	2 7/8 in	4 1/8 in	1F515	1F773	1P466	4DH04	1V862
9/32 in	0.2813	2 15/16 in	4 1/4 in	1F517	1F775	1P468	4DH05	1V864
19/64 in	0.2969	3 1/16 in	4 3/8 in	1F519	1F777	1P470	4DH06	1V866
5/16 in	0.3125	3 3/16 in	4 1/2 in	1F521	1F779	1P472	4DH07	1V868
21/64 in	0.3281	3 3/16 in	4 5/8 in	1F523	1F781	1P474	4DH08	1V870
11/32 in	0.3438	3 7/16 in	4 3/4 in	1F525	1F783	1P476	4DH09	1V873
23/64 in	0.3594	3 1/2 in	4 7/8 in	1F527	1F785	1P478	4DH10	1V875
3/8 in	0.3750	3 5/8 in	5 in	1F529	1F787	1P480	4DH11	1V877
25/64 in	0.3906	3 3/4 in	5 1/8 in	1F531	1F789	1P482	4DH12	1V879
13/32 in	0.4063	3 7/8 in	5 1/4 in	1F533	1F791	1P484	4DH13	1V882
27/64 in	0.4219	3 15/16 in	5 3/8 in	1F535	1F793	1P486	4DH14	1V884
7/16 in	0.4375	4 1/16 in	5 1/2 in	1F537	1F795	1P488	4DH15	1V886
29/64 in	0.4531	4 3/16 in	5 5/8 in	1F539	1F797	1P490	4DH16	1V888
15/32 in	0.4688	4 5/16 in	5 3/4 in	1F541	1F799	1P492	4DH17	1V890
31/64 in	0.4844	4 3/8 in	5 7/8 in	1F543	1F801	1P494	4DH18	1V893
1/2 in	0.5000	4 1/2 in	6 in	1F545	1F803	1P496	4DH19	1V895
33/64 in	0.5156	4 13/16 in	6 5/8 in	1F547	4FWX9	—	—	—
17/32 in	0.5313	4 13/16 in	6 5/8 in	1F549	4FWY1	—	—	—
35/64 in	0.5469	4 13/16 in	6 5/8 in	1F551	4FWY2	—	—	—
9/16 in	0.5625	4 13/16 in	6 5/8 in	1F553	4FWY3	—	—	—
37/64 in	0.5781	4 13/16 in	6 5/8 in	1F555	4FWY4	—	—	—
19/32 in	0.5938	5 3/16 in	7 1/8 in	1F557	4FWY5	—	—	—
39/64 in	0.6094	5 3/16 in	7 1/8 in	1F559	4FWY6	—	—	—
5/8 in	0.6250	5 3/16 in	7 1/8 in	1F561	4FWY7	—	—	—
41/64 in	0.6406	5 3/16 in	7 1/8 in	1F563	4FWY8	—	—	—
21/32 in	0.6563	5 3/16 in	7 1/8 in	1F565	4FWY9	—	—	—
43/64 in	0.6719	5 5/8 in	7 5/8 in	1F567	4FWZ1	—	—	—
11/16 in	0.6875	5 5/8 in	7 5/8 in	1F569	4FWZ2	—	—	—

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Maintenance Grade Jobbers Length HSS Drill Bits, 135°

WESTWARD
CLE-LINE.

- Split point

These drill bits reduce thrust and help eliminate walking at the drill point.


Black Oxide


Black/Gold

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE Westward Item No.	BLACK OXIDE Cle-Line List# 1801 Item No.	BLACK/GOLD Cle-Line List# 1878 Item No.	
1/16 in	0.0625	7/8 in	1 1/8 in	5XL66	2BR09	22N347	
3/64 in	0.0781	1 in	2 in	5XL67	2BR10	22N353	
3/32 in	0.0938	1 1/4 in	2 1/4 in	5XL68	2BR11	22N360	
7/64 in	0.1094	1 1/2 in	2 5/8 in	5XL69	2BR12	22N367	
1/8 in	0.1250	1 5/8 in	2 3/4 in	5XL70	2BR13	22N373	
9/64 in	0.1406	1 3/4 in	2 7/8 in	5XL71	2BR14	22N377	
5/32 in	0.1563	2 in	3 1/8 in	5XL72	2BR15	22N383	
11/64 in	0.1719	2 1/8 in	3 1/4 in	—	2BR16	22N389	
	0.1719	2 1/4 in	3 1/4 in	5XL73	—	—	
3/16 in	0.1875	2 3/16 in	3 1/2 in	5XL74	2BR17	22N395	
13/64 in	0.2031	2 7/16 in	3 5/8 in	5XL75	2BR18	22N403	
7/32 in	0.2188	2 1/2 in	3 3/4 in	5XL76	2BR19	22N408	
15/64 in	0.2344	2 5/8 in	3 7/8 in	5XL77	2BR20	22N412	
1/4 in	0.2500	2 3/4 in	4 in	5XL78	2BR21	22N416	
17/64 in	0.2656	2 7/8 in	4 1/8 in	5XL79	2BR22	22N419	
9/32 in	0.2813	2 15/16 in	4 1/4 in	5XL80	2BR23	22N424	
19/64 in	0.2969	3 1/16 in	4 3/8 in	2UFE1	2BR24	22N427	
5/16 in	0.3125	3 3/16 in	4 1/2 in	5XL81	2BR25	22N429	
21/64 in	0.3281	3 5/16 in	4 5/8 in	2UFE2	2BR26	22N432	
11/32 in	0.3438	3 7/16 in	4 3/4 in	2UFE3	2BR27	22N435	
23/64 in	0.3594	3 1/2 in	4 7/8 in	2UFE4	2BR28	22N438	
3/8 in	0.3750	3 5/8 in	5 in	5XL82	2BR29	22N440	
25/64 in	0.3906	3 3/4 in	5 1/8 in	—	—	22N454	*
	0.3906	3 3/4 in	5 1/8 in	5XL83	2BR30	22N443	
13/32 in	0.4063	3 7/8 in	5 1/4 in	2UFE5	2BR31	22N446	
	0.4063	3 7/8 in	5 1/4 in	—	—	22N455	*
27/64 in	0.4219	3 15/16 in	5 3/8 in	—	—	22N456	*
	0.4219	3 15/16 in	5 3/8 in	2UFE6	2BR32	22N448	
7/16 in	0.4375	4 1/16 in	5 1/2 in	2UFE7	2BR33	22N449	
	0.4375	4 1/16 in	5 1/2 in	—	—	22N457	*
29/64 in	0.4531	4 1/8 in	5 5/8 in	2UFE8	—	—	
	0.4531	4 3/16 in	5 5/8 in	—	—	22N458	*
	0.4531	4 3/16 in	5 5/8 in	—	2BR34	22N450	
15/32 in	0.4688	4 5/16 in	5 3/4 in	2UFE9	2BR35	22N451	
	0.4688	4 5/16 in	5 3/4 in	—	—	22N459	*
31/64 in	0.4844	4 3/8 in	5 7/8 in	—	—	22N460	*
	0.4844	4 3/8 in	5 7/8 in	2UFF1	2BR36	22N452	
1/2 in	0.5000	4 1/2 in	6 in	5XL84	2BR37	22N453	

** 3/8" reduced shank.*

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK/GOLD Cle-Line List # 1878 Item No.
A	0.2340	2 5/8 in	3 7/8 in	22N411
B	0.2380	2 3/4 in	4 in	22N413
C	0.2420	2 3/4 in	4 in	22N414
D	0.2460	2 3/4 in	4 in	22N415
F	0.2570	2 7/8 in	4 1/8 in	22N417
G	0.2610	2 7/8 in	4 1/8 in	22N418
H	0.2660	2 7/8 in	4 1/8 in	22N420
I	0.2720	2 7/8 in	4 1/8 in	22N421
J	0.2770	2 7/8 in	4 1/8 in	22N422
K	0.2810	2 15/16 in	4 1/4 in	22N423
L	0.2900	2 15/16 in	4 1/4 in	22N425
M	0.2950	3 1/16 in	4 3/8 in	22N426
N	0.3020	3 1/16 in	4 3/8 in	22N428
O	0.3160	3 3/16 in	4 1/2 in	22N430
P	0.3230	3 3/16 in	4 5/8 in	22N431
Q	0.3320	3 7/16 in	4 3/4 in	22N433
R	0.3390	3 7/16 in	4 3/4 in	22N434
S	0.3480	3 1/2 in	4 7/8 in	22N436
T	0.3580	3 1/2 in	4 7/8 in	22N437
U	0.3680	3 5/8 in	5 in	22N439
V	0.3770	3 5/8 in	5 in	22N441
W	0.3860	3 3/4 in	5 1/8 in	22N442
X	0.3970	3 3/4 in	5 1/8 in	22N444
Y	0.4040	3 7/8 in	5 1/4 in	22N445
Z	0.4130	3 7/8 in	5 1/4 in	22N447

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE Cle-Line List # 1801 Item No.	BLACK/GOLD Cle-Line List # 1878 Item No.
#60	0.0400	1 1/16 in	1 5/8 in	5BR08	22N339
#59	0.0410	1 1/16 in	1 5/8 in	5BR07	22N340
#58	0.0420	1 1/16 in	1 5/8 in	5BR06	22N341
#57	0.0430	3/4 in	1 3/4 in	5BR05	22N342
#56	0.0465	3/4 in	1 3/4 in	5BR04	22N343
#55	0.0520	7/8 in	1 7/8 in	5BR03	22N344
#54	0.0550	7/8 in	1 7/8 in	5BR02	22N345
#53	0.0595	7/8 in	1 7/8 in	5BR01	22N346
#52	0.0635	7/8 in	1 7/8 in	4BR99	22N348
#51	0.0670	1 in	2 in	4BR98	22N349
#50	0.0700	1 in	2 in	4BR97	22N350
#49	0.0730	1 in	2 in	4BR96	22N351
#48	0.0760	1 in	2 in	4BR95	22N352
#47	0.0785	1 in	2 in	4BR94	22N354
#46	0.0810	1 1/8 in	2 1/8 in	4BR93	22N355
#45	0.0820	1 1/8 in	2 1/8 in	4BR92	22N356
#44	0.0860	1 1/8 in	2 1/8 in	4BR91	22N357
#43	0.0890	1 1/4 in	2 1/4 in	4BR90	22N358
#42	0.0935	1 1/4 in	2 1/4 in	4BR89	22N359
#41	0.0960	1 3/8 in	2 3/8 in	4BR88	22N361
#40	0.0980	1 3/8 in	2 3/8 in	4BR87	22N362
#39	0.0995	1 3/8 in	2 3/8 in	4BR86	22N363
#38	0.1015	1 7/16 in	2 1/2 in	4BR85	22N364
#37	0.1040	1 7/16 in	2 1/2 in	4BR84	22N365
#36	0.1065	1 7/16 in	2 1/2 in	4BR83	22N366
#35	0.1100	1 1/2 in	2 5/8 in	4BR82	22N368
#34	0.1110	1 1/2 in	2 5/8 in	4BR81	22N369
#33	0.1130	1 1/2 in	2 5/8 in	4BR80	22N370
#32	0.1160	1 5/8 in	2 3/4 in	4BR79	22N371
#31	0.1200	1 5/8 in	2 3/4 in	4BR78	22N372
#30	0.1285	1 5/8 in	2 3/4 in	4BR77	22N374
#29	0.1360	1 3/4 in	2 7/8 in	4BR76	22N375
#28	0.1405	1 3/4 in	2 7/8 in	4BR75	22N376
#27	0.1440	1 7/8 in	3 in	4BR74	22N378
#26	0.1470	1 7/8 in	3 in	4BR73	22N379
#25	0.1495	1 7/8 in	3 in	4BR72	22N380
#24	0.1520	2 in	3 1/8 in	4BR71	22N381
#23	0.1540	2 in	3 1/8 in	4BR70	22N382
#22	0.1570	2 in	3 1/8 in	4BR69	22N384
#21	0.1590	2 1/8 in	3 1/4 in	4BR68	22N385
#20	0.1610	2 1/8 in	3 1/4 in	4BR67	22N386
#19	0.1660	2 1/8 in	3 1/4 in	4BR66	22N387
#18	0.1695	2 1/8 in	3 1/4 in	4BR65	22N388
#17	0.1730	2 3/16 in	3 3/8 in	4BR64	22N390
#16	0.1770	2 3/16 in	3 3/8 in	4BR63	22N391
#15	0.1800	2 3/16 in	3 3/8 in	4BR62	22N392
#14	0.1820	2 3/16 in	3 3/8 in	4BR61	22N393
#13	0.1850	2 5/16 in	3 1/2 in	4BR60	22N394
#12	0.1890	2 5/16 in	3 1/2 in	4BR59	22N396
#11	0.1910	2 5/16 in	3 1/2 in	4BR58	22N397
#10	0.1935	2 7/16 in	3 5/8 in	4BR57	22N398
#9	0.1960	2 7/16 in	3 5/8 in	4BR56	22N399
#8	0.1990	2 7/16 in	3 5/8 in	4BR55	22N401
#7	0.2010	2 7/16 in	3 5/8 in	4BR54	22N402
#6	0.2040	2 1/2 in	3 3/4 in	4BR53	22N404
#5	0.2055	2 1/2 in	3 3/4 in	4BR52	22N405
#4	0.2090	2 1/2 in	3 3/4 in	4BR51	22N406
#3	0.2130	2 1/2 in	3 3/4 in	4BR50	22N407
#2	0.2210	2 5/8 in	3 7/8 in	4BR49	22N409
#1	0.2280	2 5/8 in	3 7/8 in	4BR48	22N410

Production Grade Jobbers Length HSS Drill Bits, 135°

C-L Chicago-Latrobe®

- Split point

Reduce thrust and help eliminate walking at the drill point. They meet/exceed National Aerospace Standards 907, Type B.


TiAlN


TiCN

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE List# 150ASP Item No.	TiAlN List# 150ASP Item No.	TiCN List# 150ASP Item No.
1/64 in	0.0156	3/16 in	3/4 in	1G170	—	—
1/32 in	0.0313	1/2 in	1 3/8 in	1G172	10P085	10P029
3/64 in	0.0469	3/4 in	1 3/4 in	1G174	10P086	10P030
1/16 in	0.0625	7/8 in	1 7/8 in	1G485	10P087	10P031
5/64 in	0.0781	1 in	2 in	1G487	10P088	10P032
3/32 in	0.0938	1 1/4 in	2 1/4 in	1G489	10P089	10P033
7/64 in	0.1094	1 1/2 in	2 5/8 in	1G491	10P090	10P034
1/8 in	0.1250	1 5/8 in	2 3/4 in	1G493	10P091	10P035
9/64 in	0.1406	1 3/4 in	2 7/8 in	1G495	10P092	10P036
5/32 in	0.1563	2 in	3 1/8 in	1G497	10P093	10P037
11/64 in	0.1719	2 1/8 in	3 1/4 in	1G499	10P094	10P038
3/16 in	0.1875	2 3/16 in	3 1/2 in	1G501	10P095	10P039
13/64 in	0.2031	2 7/16 in	3 5/8 in	1G503	10P096	10P040
7/32 in	0.2188	2 1/2 in	3 3/4 in	1G505	10P097	10P041
15/64 in	0.2344	2 5/8 in	3 7/8 in	1G507	10P098	10P042
1/4 in	0.2500	2 3/4 in	4 in	1G509	10P099	10P043

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK OXIDE List# 150ASP Item No.	TiAlN List# 150ASP Item No.	TiCN List# 150ASP Item No.
17/64 in	0.2656	2 7/8 in	4 1/8 in	1G511	10P101	10P044
9/32 in	0.2813	2 15/16 in	4 1/4 in	1G513	10P102	10P045
19/64 in	0.2969	3 1/16 in	4 3/8 in	1G515	10P103	10P046
5/16 in	0.3125	3 3/16 in	4 1/2 in	1G517	10P104	10P047
21/64 in	0.3281	3 5/16 in	4 5/8 in	1G519	10P105	10P048
11/32 in	0.3438	3 7/16 in	4 3/4 in	1G521	10P106	10P049
23/64 in	0.3594	3 1/2 in	4 7/8 in	1G523	10P107	10P050
3/8 in	0.3750	3 5/8 in	5 in	1G525	10P108	10P051
25/64 in	0.3906	3 3/4 in	5 1/8 in	1G527	10P109	10P052
13/32 in	0.4063	3 7/8 in	5 1/4 in	1G529	10P110	10P053
27/64 in	0.4219	3 15/16 in	5 3/8 in	1G531	10P111	10P054
7/16 in	0.4375	4 1/16 in	5 1/2 in	1G533	10P112	10P055
29/64 in	0.4531	4 3/16 in	5 5/8 in	1G535	10P113	10P056
15/32 in	0.4688	4 5/16 in	5 3/4 in	1G537	10P114	10P057
31/64 in	0.4844	4 3/8 in	5 7/8 in	1G539	10P115	10P058
1/2 in	0.5000	4 1/2 in	6 in	1G541	10P116	10P059



Black/Gold



TiN

CLE-LINE. WESTWARD

Maintenance Grade Parabolic Jobber Length HSS Drill Bits, 135°

- Notched point

Combination of parabolic flute form and point design produces tighter hole tolerances, increased chip-breaking action, and improved coolant flow for deep-hole drilling. Wide flute spacing results in tighter, more manageable chips and reduced chip packing.

Size	Decimal Equivalent	Flute Length	Overall Length	BLACK/ GOLD Westward Item No.	BLACK/ GOLD Cle-Line List# 1872 Item No.	TiN Cle-Line List# 1872TN Item No.
1/16 in	0.0625	7/8 in	1 7/8 in	5UDC7	1TNW4	1TNZ7
5/64 in	0.0781	1 in	2 in	5UDC8	1TNW5	1TNZ8
3/32 in	0.0938	1 1/4 in	2 1/4 in	—	1TNW6	1TNZ9
	0.0938	1 1/8 in	2 in	5UDC9	—	—
7/64 in	0.1094	1 1/2 in	2 5/8 in	5UDD0	1TNW7	1TPA1
1/8 in	0.1250	1 5/8 in	2 3/4 in	5UDD1	1TNW8	1TPA2
9/64 in	0.1406	1 3/4 in	2 7/8 in	5UDD2	1TNW9	1TPA3
5/32 in	0.1563	2 in	3 1/8 in	5UDD3	1TNX1	1TPA4
11/64 in	0.1719	2 1/8 in	3 1/4 in	—	1TNX2	1TPA5
	0.1719	2 11/64 in	3 1/4 in	5UDD4	—	—
3/16 in	0.1875	2 5/16 in	3 1/2 in	5UDD5	1TNX3	1TPA6
13/64 in	0.2031	2 7/16 in	3 5/8 in	5UDD6	1TNX4	1TPA7
7/32 in	0.2188	2 1/2 in	3 3/4 in	5UDD7	1TNX5	1TPA8
15/64 in	0.2344	2 5/8 in	3 7/8 in	5UDD8	1TNX6	1TPA9
1/4 in	0.2500	2 3/4 in	4 in	5UDD9	1TNX7	1TPB1
17/64 in	0.2656	2 7/8 in	4 1/8 in	5UDE0	1TNX8	1TPB2
9/32 in	0.2813	2 15/16 in	4 1/4 in	—	1TNX9	1TPB3
	0.2813	2 61/64 in	4 1/4 in	5UDE1	—	—
19/64 in	0.2969	3 1/16 in	4 3/8 in	5UDE2	1TNY1	1TPB4
5/16 in	0.3125	3 3/16 in	4 1/2 in	—	1TNY2	1TPB5
	0.3125	3 7/32 in	4 1/2 in	5UDE3	—	—
21/64 in	0.3281	3 5/16 in	4 5/8 in	—	1TNY3	1TPB6
	0.3281	3 11/32 in	4 5/8 in	5UDE4	—	—
11/32 in	0.3438	3 7/16 in	4 3/4 in	—	—	1TPB7
	0.3438	3 27/64 in	4 3/4 in	5UDE5	—	—
23/64 in	0.3594	3 1/2 in	4 7/8 in	5UDE6	1TNY4	1TPB8
3/8 in	0.3750	3 5/8 in	5 in	5UDE7	1TNY5	1TPB9
25/64 in	0.3906	3 3/4 in	5 1/8 in	5UDE8	1TNY6	1TPC1
13/32 in	0.4063	3 7/8 in	5 1/4 in	—	1TNY7	1TPC2
	0.4063	3 55/64 in	5 1/4 in	5UDE9	—	—
27/64 in	0.4219	3 15/16 in	5 3/8 in	5UDF0	1TNY8	1TPC3
7/16 in	0.4375	4 1/16 in	5 1/2 in	5UDF1	1TNY9	1TPC4
29/64 in	0.4531	4 3/16 in	5 5/8 in	—	1TNZ1	1TPC5
	0.4531	4 11/64 in	5 5/8 in	5UDF2	—	—
15/32 in	0.4688	4 5/16 in	5 3/4 in	5UDF3	1TNZ2	1TPC6
31/64 in	0.4844	4 3/8 in	5 7/8 in	—	1TNZ3	1TPC7
	0.4844	4 13/32 in	5 7/8 in	5UDF4	—	—
1/2 in	0.5000	4 1/2 in	6 in	5UDF5	1TNZ4	1TPC8



Steam Oxide

Chicago-Latrobe®

Maintenance Grade Metric Jobbers Length HSS Drill Bits, 118 °

- Radial point
- Black Oxide finish

These right-handed drills are designed to be used on carbon steel, cast iron, and nonferrous materials.

Size	Flute Length	Overall Length	Item No.
List # 150			
1.05mm	12.00mm	34.00mm	434J52
1.85mm	22.00mm	46.00mm	434J53
1.95mm	24.00mm	49.00mm	434J54

Chicago-Latrobe®



TiN

Production Grade Parabolic Jobber Length HSS Drill Bits, 135°

- TiN coated

Designed with wide flute spacing that results in tighter, more manageable chips and reduced chip packing. The combination of parabolic flute form and point design produces tighter hole tolerances, increased chip-breaking action, and improved coolant flow for deep-hole drilling.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List #150WLPN				
1/16 in	0.0625	7/8 in	1 7/8 in	2THX4
5/64 in	0.0781	1 in	2 in	2THX5
3/32 in	0.0938	1 1/4 in	2 1/4 in	2THX6
7/64 in	0.1094	1 1/2 in	2 5/8 in	2THX7
1/8 in	0.1250	1 5/8 in	2 3/4 in	2THX8
9/64 in	0.1406	1 3/4 in	2 7/8 in	2THX9
5/32 in	0.1563	2 in	3 1/8 in	2THY1
11/64 in	0.1719	2 1/8 in	3 1/4 in	2THY2
3/16 in	0.1875	2 5/16 in	3 1/2 in	2THY3
13/64 in	0.2031	2 7/16 in	3 5/8 in	2THY4
7/32 in	0.2188	2 1/2 in	3 3/4 in	2THY5
15/64 in	0.2344	2 5/8 in	3 7/8 in	2THY6
1/4 in	0.2500	2 3/4 in	4 in	2THY7
17/64 in	0.2656	2 7/8 in	4 1/8 in	2THY8
9/32 in	0.2813	2 15/16 in	4 1/4 in	2THY9
19/64 in	0.2969	3 1/16 in	4 3/8 in	2THZ1
5/16 in	0.3125	3 3/16 in	4 1/2 in	2THZ2
21/64 in	0.3281	3 5/16 in	4 5/8 in	2THZ3
11/32 in	0.3438	3 7/16 in	4 3/4 in	2THZ4
23/64 in	0.3594	3 1/2 in	4 7/8 in	2THZ5
3/8 in	0.3750	3 5/8 in	5 in	2THZ6
25/64 in	0.3906	3 3/4 in	5 1/8 in	2THZ7
13/32 in	0.4063	3 7/8 in	5 1/4 in	2THZ8
27/64 in	0.4219	3 15/16 in	5 3/8 in	2THZ9
7/16 in	0.4375	4 1/16 in	5 1/2 in	2TJA1
29/64 in	0.4531	4 3/16 in	5 5/8 in	2TJA2
15/32 in	0.4688	4 5/16 in	5 3/4 in	2TJA3
31/64 in	0.4844	4 3/8 in	5 7/8 in	2TJA4
1/2 in	0.5000	4 1/2 in	6 in	2TJA5



TiN

CLEVELAND

Maintenance Grade Fractional Inch Jobbers Length Cobalt Drill Bits, 135 °

- Split point
- Straw/Bronze finish
- For additional sizes, go to Grainger.com®

These right-handed drills are designed for stainless steel, alloy steel, and titanium.

Size	Flute Length	Overall Length	Item No.
List # 2213			
#61	11/16 in	1 5/8 in	435J51
#62	5/8 in	1 1/2 in	435J52
#63	5/8 in	1 1/2 in	435J53
#64	5/8 in	1 1/2 in	435J54
#65	5/8 in	1 1/2 in	435J55
#66	1/2 in	1 3/8 in	435J56
#67	1/2 in	1 3/8 in	435J57
#68	1/2 in	1 3/8 in	435G90
#68	1/2 in	1 3/8 in	435J58
#69	1/2 in	1 3/8 in	435J59
#70	3/8 in	1 1/4 in	435J60
#71	3/8 in	1 1/4 in	435J61
#72	5/16 in	1 1/8 in	435J62
#73	5/16 in	1 1/8 in	435J63
#74	1/4 in	1 in	435J64
#75	1/4 in	1 in	435J65
#76	3/16 in	7/8 in	435J66
#77	3/16 in	7/8 in	435J67
#78	3/16 in	7/8 in	435J68
#79	1/8 in	3/4 in	435J69
#80	1/8 in	3/4 in	435J70
1.10mm	14.00mm	36.00mm	435H46
1.20mm	16.00mm	38.00mm	435H47
1.30mm	16.00mm	38.00mm	435H48
1.40mm	18.00mm	40.00mm	435H49
1.60mm	20.00mm	43.00mm	435H50
1.70mm	20.00mm	43.00mm	435H51
1.80mm	22.00mm	46.00mm	435H52
1.90mm	22.00mm	46.00mm	435J71
2.10mm	24.00mm	49.00mm	435H53
2.20mm	27.00mm	53.00mm	435J72
2.30mm	27.00mm	53.00mm	435H54
2.40mm	30.00mm	57.00mm	435H55
2.60mm	30.00mm	57.00mm	435H56
2.70mm	33.00mm	61.00mm	435H57
2.80mm	33.00mm	61.00mm	435J73
2.90mm	33.00mm	61.00mm	435H58
3.10mm	36.00mm	65.00mm	435H59
3.20mm	36.00mm	65.00mm	435H60
3.30mm	36.00mm	65.00mm	435H61
3.40mm	39.00mm	70.00mm	435H62
3.60mm	39.00mm	70.00mm	435H63
6.10mm	63.00mm	101.00mm	435H78
6.20mm	63.00mm	101.00mm	435H79
6.30mm	63.00mm	101.00mm	435H80
6.40mm	63.00mm	101.00mm	435H81
6.60mm	63.00mm	101.00mm	435H82
6.70mm	63.00mm	101.00mm	435H83
6.80mm	69.00mm	109.00mm	435H84
7.20mm	69.00mm	109.00mm	435H85
7.80mm	75.00mm	117.00mm	435H86
8.00mm	75.00mm	117.00mm	435H87
8.10mm	75.00mm	117.00mm	435H88
10.20mm	87.00mm	133.00mm	435H89
13/32 in	3 7/8 in	5 1/4 in	435H14
15/32 in	4 5/16 in	5 3/4 in	435H18
25/64 in	3 3/4 in	5 1/8 in	435H13
27/64 in	3 15/16 in	5 3/8 in	435H15
29/64 in	4 3/16 in	5 5/8 in	435H17
31/64 in	4 3/8 in	5 7/8 in	435H19
1/2 in	4 1/2 in	6 in	435H20
1/64 in	3/16 in	3/4 in	435G89
7/16 in	4 1/16 in	5 1/2 in	435H16
X	3 3/4 in	5 1/8 in	435H43
Y	3 7/8 in	5 1/4 in	435H44
Z	3 7/8 in	5 1/4 in	435H45



CLEVELAND

Production Grade Jobbers Length Cobalt Drill Bits, 135°

- Aircraft maintenance drills
- Split point
- Straw finish

These drill bits have a short flute length and extra-heavy web for rigid aircraft maintenance applications and a fast 40° helix for chip removal.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 3780				
1/16 in	0.0625	5/8 in	1 7/8 in	**2VTU6**
5/64 in	0.0781	1 1/16 in	2 in	**2VTU7**
3/32 in	0.0938	3/4 in	2 1/4 in	**2VTU8**
7/64 in	0.1094	13/16 in	2 5/8 in	**2VTU9**
1/8 in	0.1250	7/8 in	2 3/4 in	**2VTV1**
9/64 in	0.1406	15/16 in	2 7/8 in	**2VTV2**
5/32 in	0.1563	1 in	3 1/8 in	**2VTV3**
11/64 in	0.1719	1 1/16 in	3 1/4 in	**2VTV4**
3/16 in	0.1875	1 1/8 in	3 1/2 in	**2VTV5**
13/64 in	0.2031	1 3/16 in	3 5/8 in	**2VTV6**
7/32 in	0.2188	1 1/4 in	3 3/4 in	**2VTV7**
15/64 in	0.2344	1 5/16 in	3 7/8 in	**2VTV8**
1/4 in	0.2500	1 3/8 in	4 in	**2VTV9**
17/64 in	0.2656	1 7/16 in	4 1/8 in	**2VTW1**
9/32 in	0.2813	1 1/2 in	4 1/4 in	**2VTW2**
19/64 in	0.2969	1 9/16 in	4 3/8 in	**2VTW3**
5/16 in	0.3125	1 9/16 in	4 1/2 in	**2VTW4**
21/64 in	0.3281	1 11/16 in	4 5/8 in	**2VTW5**
11/32 in	0.3438	1 11/16 in	4 3/4 in	**2VTW6**
23/64 in	0.3594	1 3/4 in	4 7/8 in	**2VTW7**
3/8 in	0.3750	1 13/16 in	5 in	**2VTW8**
25/64 in	0.3906	1 7/8 in	5 1/8 in	**2VTW9**
13/32 in	0.4063	1 15/16 in	5 1/4 in	**2VTX1**
27/64 in	0.4219	2 in	5 3/8 in	**2VTX2**
7/16 in	0.4375	2 1/16 in	5 1/2 in	**2VTX3**
29/64 in	0.4531	2 1/8 in	5 5/8 in	**2VTX4**
15/32 in	0.4688	2 1/8 in	5 3/4 in	**2VTX5**
31/64 in	0.4844	2 3/16 in	5 7/8 in	**2VTX6**
1/2 in	0.5000	2 1/4 in	6 in	**2VTX7**



TiN
List# 2550

Chicago-Latrobe®

Production Grade Jobbers Length Cobalt Drill Bits, 135°

- Split point

List #s **550**, **2550**, and **550TA** meet/exceed National Aerospace Standards 907, Type J. **List# 550ASP** drills meet/exceed National Aerospace Standards 907, Type B and have a thinner web for hand/portable drilling.

Size	Decimal Equivalent	Flute Length	Overall Length	STRAW/ BRONZE List# 550 Item No.	STRAW/ BRONZE List# 550ASP Item No.	TiAlN List# 550TA Item No.	TiN List# 2550 Item No.
1/64 in	0.0156	3/16 in	3/4 in	**1G851**	—	—	—
1/32 in	0.0313	1/2 in	1 3/8 in	**1G853**	—	—	—
3/64 in	0.0469	3/4 in	1 3/4 in	**1G855**	—	—	—
1/16 in	0.0625	7/8 in	1 7/8 in	**1G857**	**2THL7**	**1TNL9**	**2TJL2**
5/64 in	0.0781	1 in	2 in	**1G859**	**2THL8**	**1TNN1**	**2TJL3**
3/32 in	0.0938	1 1/4 in	2 1/4 in	**1G861**	**2THL9**	**1TNN2**	**2TJL4**
7/64 in	0.1094	1 1/2 in	2 5/8 in	**1G863**	**2THN1**	**1TNN3**	**2TJL5**
1/8 in	0.1250	1 5/8 in	2 3/4 in	**1G865**	**2THN2**	**1TNN4**	**2TJL6**
9/64 in	0.1406	1 3/4 in	2 7/8 in	**1G867**	**2THN3**	**1TNN5**	**2VRX1**
5/32 in	0.1563	2 in	3 1/8 in	**1G869**	**2THN4**	**1TNN6**	**2VRX2**
11/64 in	0.1719	2 1/8 in	3 1/4 in	**1G871**	**2THN5**	**1TNN7**	**2VRX3**
3/16 in	0.1875	2 5/16 in	3 1/2 in	**1G873**	**2THN6**	**1TNN8**	**2VRX4**
13/64 in	0.2031	2 7/16 in	3 5/8 in	**1G875**	**2THN7**	**1TNN9**	**2VRX5**
7/32 in	0.2188	2 1/2 in	3 3/4 in	**1G877**	**2THN8**	**1TNP1**	**2VRX6**
15/64 in	0.2344	2 5/8 in	3 7/8 in	**1G879**	**2THN9**	**1TNP2**	**2VRX7**
1/4 in	0.2500	2 3/4 in	4 in	**1G881**	**2THP1**	**1TNP3**	**2VRX8**
17/64 in	0.2656	2 7/8 in	4 1/8 in	**1G883**	**2THP2**	**1TNP4**	**2VRX9**
9/32 in	0.2813	2 15/16 in	4 1/4 in	**1G885**	**2THP3**	**1TNP5**	**2VRY1**
19/64 in	0.2969	3 1/16 in	4 3/8 in	**1G887**	**2THP4**	**1TNP6**	**2VRY2**
5/16 in	0.3125	3 3/16 in	4 1/2 in	**1G889**	**2THP5**	**1TNP7**	**2VRY3**
21/64 in	0.3281	3 5/16 in	4 5/8 in	**1G891**	**2THP6**	**1TNP8**	**2VRY4**
11/32 in	0.3438	3 7/16 in	4 3/4 in	**1G893**	**2THP7**	**1TNP9**	**2VRY5**
23/64 in	0.3594	3 1/2 in	4 7/8 in	**1G895**	**2THP8**	**1TNR1**	**2VRY6**
3/8 in	0.3750	3 5/8 in	5 in	**1G897**	**2THP9**	**1TNR2**	**2VRY7**
25/64 in	0.3906	3 3/4 in	5 1/8 in	**1G899**	**2THR1**	**1TNR3**	**2VRY8**
13/32 in	0.4063	3 7/8 in	5 1/4 in	**1G901**	**2THR2**	**1TNR4**	**2VRY9**
27/64 in	0.4219	3 15/16 in	5 3/8 in	**1G903**	**2THR3**	**1TNR5**	**2VRZ1**
7/16 in	0.4375	4 1/16 in	5 1/2 in	**1G905**	**2THR4**	**1TNR6**	**2VRZ2**
29/64 in	0.4531	4 3/16 in	5 5/8 in	**1G907**	**2THR5**	**1TNR7**	**2VRZ3**
15/32 in	0.4688	4 5/16 in	5 3/4 in	**1G909**	**2THR6**	**1TNR8**	**2VRZ4**
31/64 in	0.4844	4 3/8 in	5 7/8 in	**1G911**	**2THR7**	**1TNR9**	**2VRZ5**
1/2 in	0.5000	4 1/2 in	6 in	**1G913**	**2THR8**	**1TNT1**	**2VRZ6**

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





Bright

Production Grade Jobbers Length Carbide Drill Bits, 118°

MONSTER

These right-handed, split-point drills are designed for nonferrous alloys, cast iron, plastics, aluminum, and highly-abrasive materials such as stainless steel.

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	AlTiN, List# 450 Item No.	Bright (Uncoated) Coated, List# 450 Item No.	TiN, List# 450 Item No.
Fractional Inch						
1/64"	0.0156	3/16 in	1 1/4 in	**36XE90**	**36XE88**	**36XE89**
1/32"	0.0313	5/16 in	1 1/4 in	**36XE93**	**36XE91**	**36XE92**
3/64"	0.0469	3/4 in	1 1/2 in	**36XE96**	**36XE94**	**36XE95**
1/16"	0.0625	3/4 in	1 1/2 in	**36XE99**	**36XE97**	**36XE98**
5/64"	0.0781	7/8 in	1 3/4 in	**36XF03**	**36XF01**	**36XF02**
3/32"	0.0938	1 in	2 in	**36XF06**	**36XF04**	**36XF05**
7/64"	0.1094	1 1/4 in	2 1/4 in	**36XF09**	**36XF07**	**36XF08**
1/8"	0.1250	1 1/4 in	2 1/4 in	**36XF12**	**36XF10**	**36XF11**
9/64"	0.1406	1 3/8 in	2 1/2 in	**36XF15**	**36XF13**	**36XF14**
5/32"	0.1563	1 3/8 in	2 1/2 in	**36XF18**	**36XF16**	**36XF17**
11/64"	0.1719	1 5/8 in	2 3/4 in	**36XF21**	**36XF19**	**36XF20**
3/16"	0.1875	1 5/8 in	2 3/4 in	**36XF24**	**36XF22**	**36XF23**
13/64"	0.2031	1 3/4 in	3 in	**36XF27**	**36XF25**	**36XF26**
7/32"	0.2188	1 3/4 in	3 in	**36XF30**	**36XF28**	**36XF29**
15/64"	0.2344	2 in	3 1/4 in	**36XF33**	**36XF31**	**36XF32**
1/4"	0.2500	2 in	3 1/4 in	**36XF36**	**36XF34**	**36XF35**
17/64"	0.2656	2 1/8 in	3 1/2 in	**36XF39**	**36XF37**	**36XF38**
9/32"	0.2813	2 1/8 in	3 1/2 in	**36XF42**	**36XF40**	**36XF41**
19/64"	0.2969	2 3/8 in	3 3/4 in	**36XF45**	**36XF43**	**36XF44**
5/16"	0.3125	2 3/8 in	3 3/4 in	**36XF48**	**36XF46**	**36XF47**
21/64"	0.3281	2 1/2 in	4 in	**36XF51**	**36XF49**	**36XF50**
11/32"	0.3438	2 1/2 in	4 in	**36XF54**	**36XF52**	**36XF53**
23/64"	0.3594	2 3/4 in	4 1/4 in	**36XF57**	**36XF55**	**36XF56**
3/8"	0.3750	2 3/4 in	4 1/4 in	**36XF60**	**36XF58**	**36XF59**
25/64"	0.3906	2 7/8 in	4 1/2 in	**36XF63**	**36XF61**	**36XF62**
13/32"	0.4063	2 7/8 in	4 1/2 in	**36XF66**	**36XF64**	**36XF65**
27/64"	0.4219	2 7/8 in	4 1/2 in	**36XF69**	**36XF67**	**36XF68**
7/16"	0.4375	2 7/8 in	4 1/2 in	**36XF72**	**36XF70**	**36XF71**
29/64"	0.4531	3 in	4 3/4 in	**36XF75**	**36XF73**	**36XF74**
15/32"	0.4688	3 in	4 3/4 in	**36XF78**	**36XF76**	**36XF77**
31/64"	0.4844	3 in	4 3/4 in	**36XF81**	**36XF79**	**36XF80**
1/2"	0.5000	3 in	4 3/4 in	**36XF84**	**36XF82**	**36XF83**
Letter						
A	0.2340	2 in	3 1/4 in	**36XF87**	**36XF85**	**36XF86**
B	0.2380	2 in	3 1/4 in	**36XF90**	**36XF88**	**36XF89**
C	0.2420	2 in	3 1/4 in	**36XF93**	**36XF91**	**36XF92**
D	0.2460	2 in	3 1/4 in	**36XF96**	**36XF94**	**36XF95**
Fractional Inch						
1/4"	0.2500	2 in	3 1/4 in	**36XF99**	**36XF97**	**36XF98**
Letter						
F	0.2570	2 in	3 1/4 in	**36XG03**	**36XG01**	**36XG02**
G	0.2610	2 1/8 in	3 1/2 in	**36XG06**	**36XG04**	**36XG05**
H	0.2660	2 1/8 in	3 1/2 in	**36XG09**	**36XG07**	**36XG08**
I	0.2720	2 1/8 in	3 1/2 in	**36XG12**	**36XG10**	**36XG11**
J	0.2770	2 1/8 in	3 1/2 in	**36XG15**	**36XG13**	**36XG14**
K	0.2810	2 1/8 in	3 1/2 in	**36XG18**	**36XG16**	**36XG17**
L	0.2900	2 1/8 in	3 1/2 in	**36XG21**	**36XG19**	**36XG20**
M	0.2950	2 3/8 in	3 3/4 in	**36XG24**	**36XG22**	**36XG23**
N	0.3020	2 3/8 in	3 3/4 in	**36XG27**	**36XG25**	**36XG26**
O	0.3160	2 3/8 in	3 3/4 in	**36XG30**	**36XG28**	**36XG29**
P	0.3230	2 3/8 in	3 3/4 in	**36XG33**	**36XG31**	**36XG32**
Q	0.3320	2 1/2 in	4 in	**36XG36**	**36XG34**	**36XG35**
R	0.3390	2 1/2 in	4 in	**36XG39**	**36XG37**	**36XG38**
S	0.3480	2 1/2 in	4 in	**36XG42**	**36XG40**	**36XG41**
T	0.3580	2 3/4 in	4 1/4 in	**36XG45**	**36XG43**	**36XG44**
U	0.3680	2 3/4 in	4 1/4 in	**36XG48**	**36XG46**	**36XG47**
V	0.3770	2 3/4 in	4 1/4 in	**36XG51**	**36XG49**	**36XG50**
W	0.3860	2 7/8 in	4 1/2 in	**36XG54**	**36XG52**	**36XG53**
X	0.3970	2 7/8 in	4 1/2 in	**36XG57**	**36XG55**	**36XG56**
Y	0.4040	2 7/8 in	4 1/2 in	**36XG60**	**36XG58**	**36XG59**
Z	0.4130	2 7/8 in	4 1/2 in	**36XG63**	**36XG61**	**36XG62**
Wire						
#80	0.0135	3/16 in	1 1/4 in	**36XG66**	**36XG64**	**36XG65**
#79	0.0145	3/16 in	1 1/4 in	**36XG69**	**36XG67**	**36XG68**
#78	0.0160	3/16 in	1 1/4 in	**36XG72**	**36XG70**	**36XG71**
#77	0.0180	3/16 in	1 1/4 in	**36XG75**	**36XG73**	**36XG74**
#76	0.0200	1/4 in	1 1/4 in	**36XG78**	**36XG76**	**36XG77**
#75	0.0210	1/4 in	1 1/4 in	**36XG81**	**36XG79**	**36XG80**
#74	0.0225	1/4 in	1 1/4 in	**36XG84**	**36XG82**	**36XG83**
#73	0.0240	1/4 in	1 1/4 in	**36XG87**	**36XG85**	**36XG86**
#72	0.0250	5/16 in	1 1/4 in	**36XG90**	**36XG88**	**36XG89**
#71	0.0260	5/16 in	1 1/4 in	**36XG93**	**36XG91**	**36XG92**
#70	0.0280	5/16 in	1 1/4 in	**36XG96**	**36XG94**	**36XG95**
#69	0.0292	5/16 in	1 1/4 in	**36XG99**	**36XG97**	**36XG98**
#68	0.0310	5/16 in	1 1/4 in	**36XH03**	**36XH01**	**36XH02**
#67	0.0320	5/16 in	1 1/4 in	**36XH06**	**36XH04**	**36XH05**
#66	0.0330	5/16 in	1 1/4 in	**36XH09**	**36XH07**	**36XH08**
#65	0.0350	5/8 in	1 3/8 in	**36XH12**	**36XH10**	**36XH11**
#64	0.0360	5/8 in	1 3/8 in	**36XH15**	**36XH13**	**36XH14**
#63	0.0370	5/8 in	1 3/8 in	**36XH18**	**36XH16**	**36XH17**
#62	0.0380	5/8 in	1 3/8 in	**36XH21**	**36XH19**	**36XH20**
#61	0.0390	5/8 in	1 3/8 in	**36XH24**	**36XH22**	**36XH23**
#60	0.0400	3/4 in	1 1/2 in	**36XH27**	**36XH25**	**36XH26**
#59	0.0410	3/4 in	1 1/2 in	**36XH30**	**36XH28**	**36XH29**
#58	0.0420	3/4 in	1 1/2 in	**36XH33**	**36XH31**	**36XH32**
#57	0.0430	3/4 in	1 1/2 in	**36XH36**	**36XH34**	**36XH35**
#56	0.0465	3/4 in	1 1/2 in	**36XH39**	**36XH37**	**36XH38**
#55	0.0520	3/4 in	1 1/2 in	**36XH42**	**36XH40**	**36XH41**
#54	0.0550	3/4 in	1 1/2 in	**36XH45**	**36XH43**	**36XH44**
#53	0.0595	3/4 in	1 1/2 in	**36XH48**	**36XH46**	**36XH47**
#52	0.0635	3/4 in	1 1/2 in	**36XH51**	**36XH49**	**36XH50**
#51	0.0670	3/4 in	1 1/2 in	**36XH54**	**36XH52**	**36XH53**
#50	0.0700	7/8 in	1 3/4 in	**36XH57**	**36XH55**	**36XH56**
#49	0.0730	7/8 in	1 3/4 in	**36XH60**	**36XH58**	**36XH59**
#48	0.0760	7/8 in	1 3/4 in	**36XH63**	**36XH61**	**36XH62**
#47	0.0785	7/8 in	1 3/4 in	**36XH66**	**36XH64**	**36XH65**
#46	0.0810	7/8 in	1 3/4 in	**36XH69**	**36XH67**	**36XH68**
#45	0.0820	7/8 in	1 3/4 in	**36XH72**	**36XH70**	**36XH71**
#44	0.0860	1 in	2 in	**36XH75**	**36XH73**	**36XH74**
#43	0.0890	1 in	2 in	**36XH78**	**36XH76**	**36XH77**
#42	0.0935	1 in	2 in	**36XH81**	**36XH79**	**36XH80**
#41	0.0960	1 in	2 in	**36XH84**	**36XH82**	**36XH83**
#40	0.0980	1 in	2 in	**36XH87**	**36XH85**	**36XH86**
#39	0.0995	1 1/4 in	2 1/4 in	**36XH90**	**36XH88**	**36XH89**
#38	0.1015	1 1/4 in	2 1/4 in	**36XH93**	**36XH91**	**36XH92**
#37	0.1040	1 1/4 in	2 1/4 in	**36XH96**	**36XH94**	**36XH95**
#36	0.1065	1 1/4 in	2 1/4 in	**36XH99**	**36XH97**	**36XH98**
#35	0.1100	1 1/4 in	2 1/4 in	**36XJ03**	**36XJ01**	**36XJ02**
#34	0.1110	1 1/4 in	2 1/4 in	**36XJ06**	**36XJ04**	**36XJ05**
#33	0.1130	1 1/4 in	2 1/4 in	**36XJ09**	**36XJ07**	**36XJ08**
#32	0.1160	1 1/4 in	2 1/4 in	**36XJ12**	**36XJ10**	**36XJ11**
#31	0.1200	1 1/4 in	2 1/4 in	**36XJ15**	**36XJ13**	**36XJ14**
#30	0.1285	1 1/4 in	2 1/4 in	**36XJ18**	**36XJ16**	**36XJ17**
#29	0.1360	1 3/8 in	2 1/2 in	**36XJ21**	**36XJ19**	**36XJ20**
#28	0.1405	1 3/8 in	2 1/2 in	**36XJ24**	**36XJ22**	**36XJ23**
#27	0.1440	1 3/8 in	2 1/2 in	**36XJ27**	**36XJ25**	**36XJ26**
#26	0.1470	1 3/8 in	2 1/2 in	**36XJ30**	**36XJ28**	**36XJ29**
#25	0.1495	1 3/8 in	2 1/2 in	**36XJ33**	**36XJ31**	**36XJ32**
#24	0.1520	1 3/8 in	2 1/2 in	**36XJ36**	**36XJ34**	**36XJ35**
#23	0.1540	1 3/8 in	2 1/2 in	**36XJ39**	**36XJ37**	**36XJ38**
#22	0.1570	1 3/8 in	2 1/2 in	**36XJ42**	**36XJ40**	**36XJ41**
#21	0.1590	1 3/8 in	2 1/2 in	**36XJ45**	**36XJ43**	**36XJ44**
#20	0.1610	1 3/8 in	2 1/2 in	**36XJ48**	**36XJ46**	**36XJ47**
#19	0.1660	1 5/8 in	2 3/4 in	**36XJ51**	**36XJ49**	**36XJ50**
#18	0.1695	1 5/8 in	2 3/4 in	**36XJ54**	**36XJ52**	**36XJ53**
#17	0.1730	1 5/8 in	2 3/4 in	**36XJ57**	**36XJ55**	**36XJ56**
#16	0.1770	1 5/8 in	2 3/4 in	**36XJ60**	**36XJ58**	**36XJ59**
#15	0.1800	1 5/8 in	2 3/4 in	**36XJ63**	**36XJ61**	**36XJ62**
#14	0.1820	1 5/8 in	2 3/4 in	**36XJ66**	**36XJ64**	**36XJ65**
#13	0.1850	1 5/8 in	2 3/4 in	**36XJ69**	**36XJ67**	**36XJ68**
#12	0.1890	1 5/8 in	2 3/4 in	**36XJ72**	**36XJ70**	**36XJ71**
#11	0.1910	1 5/8 in	2 3/4 in	**36XJ75**	**36XJ73**	**36XJ74**
#10	0.1935	1 5/8 in	2 3/4 in	**36XJ78**	**36XJ76**	**36XJ77**
#9	0.1960	1 3/4 in	3 in	**36XJ81**	**36XJ79**	**36XJ80**
#8	0.1990	1 3/4 in	3 in	**36XJ84**	**36XJ82**	**36XJ83**
#7	0.2010	1 3/4 in	3 in	**36XJ87**	**36XJ85**	**36XJ86**
#6	0.2040	1 3/4 in	3 in	**36XJ90**	**36XJ88**	**36XJ89**
#5	0.2055	1 3/4 in	3 in	**36XJ93**	**36XJ91**	**36XJ92**
#4	0.2090	1 3/4 in	3 in	**36XJ96**	**36XJ94**	**36XJ95**
#3	0.2130	1 3/4 in	3 in	**36XJ99**	**36XJ97**	**36XJ98**
#2	0.2210	1 3/4 in	3 in	**36XK03**	**36XK01**	**36XK02**
#1	0.2280	1 3/4 in	3 in	**36XK06**	**36XK04**	**36XK05**
Metric						
1.50mm	0.0591	11/16 in	38.00 mm	**45XY33**	**45XY32**	**45XY34**
2.00mm	0.0787	13/16 in	45.00 mm	**45YA27**	**45YA26**	**45YA28**
2.50mm	0.0984	15/16 in	51.00 mm	**45YA35**	**45YA34**	**45YA36**
3.00mm	0.1181	1 1/4 in	57.00 mm	**45YC15**	**45YC14**	**45YC16**
3.50mm	0.1378	1 3/8 in	64.00 mm	**38ZD20**	**45YC22**	**45YC23**
4.00mm	0.1575	1 3/8 in	64.00 mm	**45YD30**	**45YD29**	**45YD31**
4.50mm	0.1772	1 9/16 in	70.00 mm	**45YD38**	**45YD37**	**45YD39**
5.00mm	0.1969	1 3/4 in	76.00 mm	**45YE08**	**45YE07**	**45YE09**
5.50mm	0.2165	1 3/4 in	76.00 mm	**45YE15**	**45YE14**	**45YE16**
6.00mm	0.2362	1 3/4 in	76.00 mm	**38ZD21**	**45YE88**	**45YE89**
6.50mm	0.2559	2 in	83.00 mm	**45YE96**	**45YE95**	**45YE97**
7.00mm	0.2756	2 1/8 in	89.00 mm	**45YF22**	**45YF21**	**45YF23**
7.50mm	0.2953	2 5/16 in	95.00 mm	**45YF30**	**45YF29**	**45YF31**
8.00mm	0.3150	2 5/16 in	95.00 mm	**45YF58**	**45YF57**	**45YF59**
8.50mm	0.3346	2 1/2 in	102.00 mm	**45YF66**	**45YF65**	**45YF67**
9.00mm	0.3543	2 1/2 in	102.00 mm	**45YF79**	**45YF78**	**45YF80**
9.50mm	0.3740	2 3/4 in	108.00 mm	**45YF87**	**45YF86**	**45YF88**
10.00mm	0.3937	2 13/16 in	114.00 mm	**45XY90**	**45XY89**	**45XY91**
10.50mm	0.4134	2 13/16 in	114.00 mm	**45XY98**	**45XY97**	**45XY99**
11.00mm	0.4331	2 13/16 in	114.00 mm	**45XZ12**	**45XZ11**	**45XZ13**
11.50mm	0.4528	2 13/16 in	121.00 mm	**45XZ20**	**45XZ19**	**45XZ21**
12.00mm	0.4724	2 13/16 in	121.00 mm	**45XZ46**	**45XZ45**	**45XZ47**
12.50mm	0.4921	2 13/16 in	121.00 mm	**45XZ54**	**45XZ53**	**45XZ55**

No. of Pieces	Sizes Incl.	AlTiN Coated, List# 450 Item No.	Bright (Uncoated) Coated, List# 450 Item No.
Metric Twist Drill Sets			
24	1.00mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm, 3.50mm, 4.00mm, 4.50mm, 5.00mm, 5.50mm, 6.00mm, 6.50mm, 7.00mm, 7.50mm, 8.00mm, 8.50mm, 9.00mm, 9.50mm, 10.00mm, 10.50mm, 11.00mm, 11.50mm, 12.00mm, 12.50mm	**45YJ55**	**45YJ43**
Fractional Twist Drill Sets			
15	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	**45YJ53**	**45YJ41**
21	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8"	**45YJ54**	**45YJ42**
29	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"	**45YJ56**	**45YJ44**

Bright
List# 220D



Production Grade Screw Machine Length Carbide Drill Bits, 118°

- 4-facet
- Bright finish

Point geometry breaks chips at cutting edge to help eliminate chip packing. Self-starting point.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List #220D				
3/64 in	0.0469	1/2 in	1 3/8 in	**3CLG8**
1/16 in	0.0625	3/4 in	1 1/2 in	**2PPK1**
5/64 in	0.0781	7/8 in	1 3/4 in	**3CLH5**
3/32 in	0.0938	3/4 in	1 3/4 in	**2PPK5**
7/64 in	0.1094	1 1/4 in	2 1/4 in	**3CLJ1**
1/8 in	0.1250	1 1/4 in	2 1/4 in	**2PPL2**
9/64 in	0.1406	1 3/8 in	2 1/2 in	**3CLJ7**
5/32 in	0.1562	10 in	2 1/16 in	**2PPL6**
11/64 in	0.1719	1 5/8 in	2 3/4 in	**3CLF4**
3/16 in	0.1875	1 5/8 in	2 3/4 in	**2PPL8**
13/64 in	0.2031	1 3/4 in	3 in	**3CLF6**
7/32 in	0.2188	1 3/4 in	3 in	**2PPN3**
15/64 in	0.2344	1 5/16 in	2 1/16 in	**2PPN4**
1/4 in	0.2500	1 3/8 in	2 1/2 in	**2PPN5**
17/64 in	0.2656	2 1/8 in	3 1/2 in	**3CLF8**
9/32 in	0.2812	2 1/8 in	3 1/2 in	**3CLJ6**
19/64 in	0.2969	2 3/8 in	3 3/4 in	**3CLF9**
5/16 in	0.3125	2 3/8 in	3 3/4 in	**2PPN8**
21/64 in	0.3281	2 1/2 in	4 in	**3CLG3**
11/32 in	0.3438	2 1/2 in	4 in	**2PPN9**
23/64 in	0.3594	2 1/2 in	4 in	**2PPP1**
3/8 in	0.3750	1 13/16 in	3 1/16 in	**2PPP2**
25/64 in	0.3906	2 7/8 in	4 1/2 in	**3CLG4**
13/32 in	0.4062	2 7/8 in	4 1/2 in	**2PPP3**
27/64 in	0.4219	2 7/8 in	4 1/2 in	**2PPP4**
7/16 in	0.4375	2 7/8 in	4 1/2 in	**2PPP5**
29/64 in	0.4531	3 in	4 3/4 in	**3CLG5**
15/32 in	0.4688	3 in	4 3/4 in	**3CLF7**
31/64 in	0.4844	3 in	4 3/4 in	**3CLG9**
1/2 in	0.5000	3 in	4 3/4 in	**2PPP6**

Black
Oxide



CLE-LINE.

Maintenance Grade Screw Machine Length HSS Drill Bits, 135°

- Split point
- Black oxide finish

Short length provides rigidity, minimizing deflection.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 1896				
1/16 in	0.0625	5/8 in	1 5/8 in	**4AK30**
5/64 in	0.0781	11/16 in	1 11/16 in	**6BR49**
3/32 in	0.0938	3/4 in	1 3/4 in	**4AK31**
7/64 in	0.1094	13/16 in	1 13/16 in	**6BR50**
1/8 in	0.1250	7/8 in	1 7/8 in	**5X988**
9/64 in	0.1406	15/16 in	1 15/16 in	**5X999**
5/32 in	0.1562	10 in	2 1/16 in	**6X002**
11/64 in	0.1719	1 1/16 in	2 1/8 in	**6BR51**
3/16 in	0.1875	1 1/8 in	2 3/16 in	**6X003**
13/64 in	0.2031	1 3/16 in	2 1/4 in	**6BR52**
7/32 in	0.2188	1 1/4 in	2 3/8 in	**6X004**
15/64 in	0.2344	1 5/16 in	2 7/16 in	**6BR53**
1/4 in	0.2500	1 3/8 in	2 1/2 in	**6X005**
17/64 in	0.2656	1 7/16 in	2 5/8 in	**6BR54**
9/32 in	0.2812	1 1/2 in	2 11/16 in	**4AK32**
19/64 in	0.2969	1 9/16 in	2 3/4 in	**6BR55**
5/16 in	0.3125	1 5/8 in	2 13/16 in	**4AK33**
21/64 in	0.3281	1 11/16 in	2 15/16 in	**6BR56**
11/32 in	0.3438	1 11/16 in	3 in	**4AK34**
23/64 in	0.3594	1 3/4 in	3 1/16 in	**6BR57**
3/8 in	0.3750	1 13/16 in	3 1/8 in	**4AK35**
25/64 in	0.3906	1 7/8 in	3 1/4 in	**6BR58**
13/32 in	0.4062	1 15/16 in	3 5/16 in	**4AK36**
27/64 in	0.4219	2 in	3 3/8 in	**6BR59**
7/16 in	0.4375	2 1/16 in	3 7/16 in	**4AK37**
29/64 in	0.4531	2 1/8 in	3 5/16 in	**6BR60**
15/32 in	0.4688	2 1/8 in	3 5/8 in	**4AK38**
31/64 in	0.4844	2 3/16 in	3 11/16 in	**6BR61**
1/2 in	0.5000	2 1/4 in	3 3/4 in	**4AK39**

Chicago-Latrobe®

Bright
List# 157



Production Grade Screw Machine Length HSS Drill Bits, 118°

- Conventional point

Shorter flute and overall length increase rigidity, resulting in less deflection, better hole accuracy, and longer tool life.

Left-hand drills are for drilling in conditions where the machine spindle rotates counterclockwise.

Size	Decimal Equivalent	Flute Length	Overall Length	Bright (Uncoated) Finish List# 157 Item No.	Bright (Uncoated) Finish List# 157L Item No.	TiN List# 2157 Item No.
3/64 in	0.0469	1/2 in	1 3/8 in	**10P142**	**6WUK6** *	—
1/16 in	0.0625	5/8 in	1 5/8 in	**10P143**	**6WUL5** *	**10U263**
5/64 in	0.0781	11/16 in	1 11/16 in	**10P144**	**6WUL6** *	**10U264**
3/32 in	0.0938	3/4 in	1 3/4 in	**10P145**	**6WUL7** *	**10U265**
7/64 in	0.1094	13/16 in	1 13/16 in	**10P146**	**6WUN7** *	**10U266**
1/8 in	0.1250	7/8 in	1 7/8 in	**10P147**	**6WUN8** *	**10U267**
9/64 in	0.1406	15/16 in	1 15/16 in	**10P148**	**6WUP2** *	**10U268**
5/32 in	0.1562	10 in	2 1/16 in	**10P149**	**6WUP5** *	**10U269**
11/64 in	0.1719	1 1/16 in	2 1/8 in	**10P150**	**6WUP6** *	**10U270**
3/16 in	0.1875	1 1/8 in	2 3/16 in	**10P151**	**6WUP9** *	**10U271**
13/64 in	0.2031	1 3/16 in	2 1/4 in	**10P152**	**6WUR1** *	**10U272**
7/32 in	0.2188	1 1/4 in	2 3/8 in	**10P153**	**6WUR2** *	**10U273**
15/64 in	0.2344	1 5/16 in	2 7/16 in	**10P154**	**6WUR3** *	**10U274**
1/4 in	0.2500	1 3/8 in	2 1/2 in	**1K746**	**6WUR4** *	**10U275**
17/64 in	0.2656	1 7/16 in	2 5/8 in	**10P156**	**6WUR5** *	**10U276**
9/32 in	0.2812	1 1/2 in	2 11/16 in	**10P157**	**6WUR6** *	**10U277**
19/64 in	0.2969	1 9/16 in	2 3/4 in	**10P158**	**6WUR7** *	**10U278**
5/16 in	0.3125	1 5/8 in	2 13/16 in	**10P159**	**6WUR8** *	**10U279**
21/64 in	0.3281	1 11/16 in	2 15/16 in	**10P160**	**6WUR9** *	**10U280**
11/32 in	0.3438	1 11/16 in	3 in	**10P161**	**6WUT0** *	**10U281**
23/64 in	0.3594	1 3/4 in	3 1/16 in	**10P162**	**6WUT1** *	**10U282**
3/8 in	0.3750	1 13/16 in	3 1/8 in	**10P163**	**6WUT2** *	**10U283**
25/64 in	0.3906	1 7/8 in	3 1/4 in	**10P164**	**6WUT3** *	**10U284**
13/32 in	0.4062	1 15/16 in	3 5/16 in	**10P165**	**6WUT4** *	**10U285**
27/64 in	0.4219	2 in	3 3/8 in	**10P166**	**6WUU0** *	**10U286**
7/16 in	0.4375	2 1/16 in	3 7/16 in	**10P167**	**6WUU3** *	**10U287**
29/64 in	0.4531	2 1/8 in	3 5/16 in	**10P168**	**6WUU7** *	**10U288**
15/32 in	0.4688	2 1/8 in	3 5/8 in	**10U199**	**6ZRL4** *	**10U289**
31/64 in	0.4844	2 3/16 in	3 11/16 in	**10U201**	**6ZRL5** *	**10U290**
1/2 in	0.5000	2 1/4 in	3 3/4 in	**10U202**	**6ZRL7** *	**10U291**

** Left-Hand*

Chicago-Latrobe®

Black
Oxide



Production Grade Screw Machine Length HSS Drill Bits, 135°

- Split point
- Black oxide finish

These bits meet/exceed National Aerospace Standards (NAS) 907, Type C. Designed with short length to provide ridgity, minimizing deflection.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List #159				
11/32 in	0.3438	11 11/16 in	3 in	**1M061**
11/64 in	0.1719	1 1/16 in	2 1/8 in	**1M039**
13/32 in	0.4062	1 15/16 in	3 5/16 in	**1M069**
13/64 in	0.2031	1 3/16 in	2 1/4 in	**1M043**
15/32 in	0.4688	2 1/8 in	3 5/8 in	**1M077**
15/64 in	0.2344	1 5/16 in	2 7/16 in	**1M047**
17/64 in	0.2656	1 7/16 in	2 5/8 in	**1M051**
19/64 in	0.2969	1 9/16 in	2 3/4 in	**1M055**
21/64 in	0.3281	1 11/16 in	2 15/16 in	**1M059**
23/64 in	0.3594	1 3/4 in	3 1/16 in	**1M063**
25/64 in	0.3906	1 7/8 in	3 1/4 in	**1M067**
27/64 in	0.4219	2 in	3 3/8 in	**1M071**
29/64 in	0.4531	2 1/8 in	3 5/16 in	**1M075**
31/64 in	0.4844	2 3/16 in	3 11/16 in	**1M079**
1/2 in	0.5000	2 1/4 in	3 3/4 in	**1M081**
1/4 in	0.2500	1 3/8 in	2 1/2 in	**1M049**
1/8 in	0.1250	7/8 in	1 7/8 in	**1M033**
1/16 in	0.0625	5/8 in	1 5/8 in	**1M025**
3/8 in	0.3750	1 13/16 in	3 1/8 in	**1M065**
3/16 in	0.1875	1 1/8 in	2 3/16 in	**1M041**
3/32 in	0.0938	3/4 in	1 3/4 in	**1M029**
3/64 in	0.0469	1/2 in	1 3/8 in	**4DM91**
5/16 in	0.3125	1 5/8 in	2 13/16 in	**1M057**
5/32 in	0.1562	10 in	2 1/16 in	**1M037**
5/64 in	0.0781	11/16 in	1 11/16 in	**1M027**
7/16 in	0.4375	2 1/16 in	3 7/16 in	**1M073**
7/32 in	0.2188	1 1/4 in	2 3/8 in	**1M045**
7/64 in	0.1094	13/16 in	1 13/16 in	**1M031**
9/32 in	0.2812	1 1/2 in	2 11/16 in	**1M053**
9/64 in	0.1406	15/16 in	1 15/16 in	**1M035**



Chicago-Latrobe®

Production Grade Screw Machine Length Cobalt Drill Bits, 135°

- Split point
- Straw finish

Short length provides rigidity, minimizing deflection and improving hole quality. Ideal for for use on tool steel, stainless steel, alloy steel, and cast iron.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 559				
1/16 in	0.0625	5/8 in	1 5/8 in	1TNT2
5/64 in	0.0781	1 1/16 in	1 11/16 in	1TNT3
3/32 in	0.0938	3/4 in	1 3/4 in	1TNT4
7/64 in	0.1094	13/16 in	1 13/16 in	1TNT5
1/8 in	0.1250	7/8 in	1 7/8 in	1TNT6
9/64 in	0.1406	15/16 in	1 15/16 in	1TNT7
5/32 in	0.1562	10 in	2 1/16 in	1TNT8
11/64 in	0.1719	1 1/16 in	2 1/8 in	1TNT9
3/16 in	0.1875	1 1/8 in	2 3/16 in	1TNU1
13/64 in	0.2031	1 3/16 in	2 1/4 in	1TNU2
7/32 in	0.2188	1 1/4 in	2 3/8 in	1TNU3
15/64 in	0.2344	1 5/16 in	2 7/16 in	1TNU4
1/4 in	0.2500	1 3/8 in	2 1/2 in	1TNU5
17/64 in	0.2656	1 7/16 in	2 5/8 in	1TNU6
9/32 in	0.2812	1 1/2 in	2 11/16 in	1TNU7
19/64 in	0.2969	1 9/16 in	2 3/4 in	1TNU8
5/16 in	0.3125	1 5/8 in	2 13/16 in	1TNU9
21/64 in	0.3281	1 11/16 in	2 15/16 in	1TNV1
11/32 in	0.3438	1 11/16 in	3 in	1TNV2
23/64 in	0.3594	1 3/4 in	3 1/16 in	1TNV3
3/8 in	0.3750	1 13/16 in	3 1/8 in	1TNV4
25/64 in	0.3906	1 7/8 in	3 1/4 in	1TNV5
13/32 in	0.4062	1 15/16 in	3 5/16 in	1TNV6
27/64 in	0.4219	2 in	3 3/8 in	1TNV7
7/16 in	0.4375	2 1/16 in	3 7/16 in	1TNV8
29/64 in	0.4531	2 1/8 in	3 9/16 in	1TNV9
15/32 in	0.4688	2 1/8 in	3 5/8 in	1TNW1
31/64 in	0.4844	2 5/16 in	3 11/16 in	1TNW2
1/2 in	0.5000	2 1/4 in	3 3/4 in	1TNW3



Uncoated
List# 759

Production Grade Screw Machine Length Slow Spiral Carbide Drill Bits

Chicago Latrobe—Manufactured from solid submicron grain carbide with exacting tolerances. Stub lengths allow rigid setups, which minimizes deflection. Slow spiral drills provide a curled chip with excellent chip flow and removal. 4-facet point helps eliminate walking and requires less force.

- 118° 4-facet point

OSG—Self-starting point design for improved hole accuracy. Chips are broken at the cutting edge, which helps eliminate chip packing, increases feed rate, and quickens cycle times. 4-facet point.

- 135° point

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
Bright (UNCOATED) Chicago Latrobe List #759				
1/16 in	0.0625	3/8 in	1 1/2 in	6ZRP8
5/64 in	0.0781	1/2 in	1 1/2 in	6ZRR0
3/32 in	0.0938	1/2 in	1 3/4 in	6ZRR1
7/64 in	0.1094	5/8 in	2 in	6ZRR2
1/8 in	0.1250	5/8 in	2 in	6ZRR3
9/64 in	0.1406	5/8 in	2 in	6ZRR5
5/32 in	0.1562	3/4 in	2 in	6ZRR6
11/64 in	0.1719	3/4 in	2 1/8 in	6ZRR7
3/16 in	0.1875	3/4 in	2 3/16 in	6ZRR9
13/64 in	0.2031	3/4 in	2 1/4 in	6ZRT1
7/32 in	0.2188	10 in	2 1/2 in	6ZRT2
15/64 in	0.2344	10 in	2 1/2 in	6ZRT4
1/4 in	0.2500	10 in	2 1/2 in	6ZRT7
17/64 in	0.2656	10 in	2 1/2 in	6ZRT9
9/32 in	0.2812	10 in	2 1/2 in	6ZRU1
19/64 in	0.2969	1 1/4 in	2 1/2 in	6ZRU3
5/16 in	0.3125	1 1/4 in	2 1/2 in	6ZCT9
21/64 in	0.3281	1 1/4 in	2 1/2 in	6TDD0
11/32 in	0.3438	1 1/4 in	2 1/2 in	6TDD1
23/64 in	0.3594	1 1/4 in	2 1/2 in	6TDD2
3/8 in	0.3750	1 1/4 in	2 3/4 in	6TDD3
25/64 in	0.3906	1 1/4 in	2 3/4 in	6TDD4
13/32 in	0.4062	1 1/4 in	2 3/4 in	6TDD5
27/64 in	0.4219	1 1/4 in	2 3/4 in	6TDD6
7/16 in	0.4375	1 1/4 in	2 3/4 in	6TDD7
29/64 in	0.4531	1 1/4 in	3 in	6TDD8
15/32 in	0.4688	1 1/4 in	3 in	6TDD9
31/64 in	0.4844	1 1/4 in	3 in	6TDE0
1/2 in	0.5000	1 1/4 in	3 in	6TDE1
9/32 in	0.2812	1 1/2 in	2 11/16 in	3KCK7
19/64 in	0.2969	1 9/16 in	2 3/4 in	3CKJ8
5/16 in	0.3125	1 5/8 in	2 13/16 in	2PPJ1
21/64 in	0.3281	1 11/16 in	2 15/16 in	3CKL1
11/32 in	0.3438	1 11/16 in	3 in	2PPJ2
23/64 in	0.3594	1 3/4 in	3 1/16 in	2PPJ3
3/8 in	0.3750	1 13/16 in	3 1/8 in	2PPJ4
25/64 in	0.3906	1 7/8 in	3 1/4 in	3CKL2
13/32 in	0.4062	1 15/16 in	3 5/16 in	2PPJ5
27/64 in	0.4219	2 in	3 3/8 in	2PPJ6
7/16 in	0.4375	2 1/16 in	3 7/16 in	2PPJ7
29/64 in	0.4531	2 1/8 in	3 9/16 in	3CKL3
15/32 in	0.4688	2 1/8 in	3 5/8 in	3CKJ6
31/64 in	0.4844	2 5/16 in	3 11/16 in	3AFH6
1/2 in	0.5000	2 1/4 in	3 3/4 in	2PPJ8

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
Bright (UNCOATED) OSG List #215				
3/64 in	0.0469	1/2 in	1 3/8 in	3AFH5
1/16 in	0.0625	5/8 in	1 5/8 in	2PPF3
5/64 in	0.0781	1 1/16 in	1 11/16 in	3CKP9
3/32 in	0.0938	3/4 in	1 3/4 in	2PPF7
7/64 in	0.1094	13/16 in	1 13/16 in	3CKU3
1/8 in	0.1250	7/8 in	1 7/8 in	2PPG4
9/64 in	0.1406	15/16 in	1 15/16 in	3CKW7
5/32 in	0.1562	10 in	2 1/16 in	2PPG8
11/64 in	0.1719	1 1/16 in	2 1/8 in	3CKJ3
3/16 in	0.1875	1 1/8 in	2 3/16 in	2PPH1
13/64 in	0.2031	1 3/16 in	2 1/4 in	3CKJ5
7/32 in	0.2188	1 1/4 in	2 3/8 in	2PPH5
15/64 in	0.2344	1 5/16 in	2 7/16 in	2PPH6
1/4 in	0.2500	1 3/8 in	2 1/2 in	2PPH7
17/64 in	0.2656	1 7/16 in	2 5/8 in	3CKJ7
9/32 in	0.2812	1 1/2 in	2 11/16 in	3CKW6
19/64 in	0.2969	1 9/16 in	2 3/4 in	3CKJ8
5/16 in	0.3125	1 5/8 in	2 13/16 in	2PPJ1
21/64 in	0.3281	1 11/16 in	2 15/16 in	3CKL1
11/32 in	0.3438	1 11/16 in	3 in	2PPJ2
23/64 in	0.3594	1 3/4 in	3 1/16 in	2PPJ3
3/8 in	0.3750	1 13/16 in	3 1/8 in	2PPJ4
25/64 in	0.3906	1 7/8 in	3 1/4 in	3CKL2
13/32 in	0.4062	1 15/16 in	3 5/16 in	2PPJ5
27/64 in	0.4219	2 in	3 3/8 in	2PPJ6
7/16 in	0.4375	2 1/16 in	3 7/16 in	2PPJ7
29/64 in	0.4531	2 1/8 in	3 9/16 in	3CKL3
15/32 in	0.4688	2 1/8 in	3 5/8 in	3CKJ6
31/64 in	0.4844	2 5/16 in	3 11/16 in	3AFH6
1/2 in	0.5000	2 1/4 in	3 3/4 in	2PPJ8



EXOCARB® AD



EXOCARB® ADO

Production Grade Screw Machine Length Solid Carbide Bits, 140°

- EgiAs™ finish
- For ferrous and nonferrous materials

EgiAs™ coating features high wear and heat resistance characteristics. Suppresses friction with the wear resistance layer and prevents breakage with the nano periodical layer.

EXOCARB® AD—R-thinning point type, or radial point thinning, creates a highly rigid cutting edge for heavy drilling. Wavy point form breaks chip into small, manageable pieces. Creates sharp cutting action for reduced thrust forces. Wide flute room facilitates stable chip evacuation.

EXOCARB® ADO—X-thinning point type for nonradial point thinning. Creates self-centering cutting edge, ideal for deep holes. These drills are coolant fed performance drills, designed to drill in a variety of steels up to 30XD diameter without pecking.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
EXOCARB® AD, List# 6300				
11/64 in	0.1719	24.00mm	66.00mm	405G56
3/16 in	0.1875	28.00mm	66.00mm	405G61
13/64 in	0.2031	28.00mm	66.00mm	405G66
7/32 in	0.2188	28.00mm	66.00mm	405G72
15/64 in	0.2344	28.00mm	66.00mm	405G77
1/4 in	0.2500	34.00mm	79.00mm	405G82
17/64 in	0.2656	34.00mm	79.00mm	405G88
9/32 in	0.2812	41.00mm	79.00mm	405G93
19/64 in	0.2969	41.00mm	79.00mm	405G98
5/16 in	0.3125	41.00mm	79.00mm	405H04
21/64 in	0.3281	47.00mm	89.00mm	405H09
11/32 in	0.3438	47.00mm	89.00mm	405H15
23/64 in	0.3594	47.00mm	89.00mm	405H20
3/8 in	0.3750	47.00mm	89.00mm	405H25
25/64 in	0.3906	47.00mm	89.00mm	405H30
13/32 in	0.4062	55.00mm	102.00mm	405H35
27/64 in	0.4219	55.00mm	102.00mm	405H40
7/16 in	0.4375	55.00mm	102.00mm	405H45
29/64 in	0.4531	55.00mm	102.00mm	405H50
15/32 in	0.4688	55.00mm	102.00mm	405H55
31/64 in	0.4844	60.00mm	107.00mm	405H59
1/2 in	0.5000	60.00mm	107.00mm	405H63
33/64 in	0.5156	60.00mm	107.00mm	405H67
9/16 in	0.5625	65.00mm	115.00mm	405H73
5/8 in	0.6250	65.00mm	115.00mm	405H77
3/4 in	0.7500	79.00mm	131.00mm	405H85
EXOCARB® ADO, List# 6500				
3/32 in	0.0938	15.00mm	66.00mm	405K55
7/64 in	0.1094	17.00mm	66.00mm	405K60
1/8 in	0.1250	20.00mm	74.00mm	405K67
5/32 in	0.1562	24.00mm	74.00mm	405K82
11/64 in	0.1719	27.00mm	80.00mm	405K94
3/16 in	0.1875	29.00mm	80.00mm	405L06
13/64 in	0.2031	26.00mm	82.00mm	405L15
7/32 in	0.2188	28.00mm	82.00mm	405L23
15/64 in	0.2344	30.00mm	82.00mm	405L28
1/4 in	0.2500	32.00mm	88.00mm	405L37
17/64 in	0.2656	34.00mm	88.00mm	405L48
9/32 in	0.2812	36.00mm	94.00mm	405L58
19/64 in	0.2969	38.00mm	94.00mm	405L63
5/16 in	0.3125	40.00mm	94.00mm	405L68
21/64 in	0.3281	42.00mm	101.00mm	405L77
11/32 in	0.3438	44.00mm	101.00mm	405L90
23/64 in	0.3594	46.00mm	106.00mm	405L99
3/8 in	0.3750	48.00mm	106.00mm	405M05
25/64 in	0.3906	50.00mm	106.00mm	405M11
13/32 in	0.4062	52.00mm	113.00mm	405M19
27/64 in	0.4219	54.00mm	113.00mm	405M29
7/16 in	0.4375	56.00mm	120.00mm	405M38
29/64 in	0.4531	58.00mm	120.00mm	405M43
15/32 in	0.4688	60.00mm	120.00mm	405M48
31/64 in	0.4844	62.00mm	128.00mm	405M56
1/2 in	0.5000	64.00mm	128.00mm	405M65
17/32 in	0.5312	68.00mm	134.00mm	405M79
9/16 in	0.5625	72.00mm	140.00mm	405M91
37/64 in	0.5781	74.00mm	140.00mm	405N01
5/8 in	0.6250	80.00mm	145.00mm	405N18
21/32 in	0.6562	85.00mm	150.00mm	405N24
3/4 in	0.7500	95.00mm	160.00mm	405N38



Production Grade Metric Jobbers Length Solid Carbide Drill Bits, 140 °

- X Thinning point
- EgiAs finish

High-performance drills are designed to be used on a variety of steels. Their special point geometry helps reduce thrust forces, while a proprietary coating helps enable higher drilling speeds and promotes longer tool life.

Size (mm)	Decimal Equivalent	Flute Length (mm)	Overall Length (mm)	Item No.
List # 6510				
#12	0.1890	44.00	95.00	**405N87**
#13	0.1850	43.00	95.00	**405N84**
2.00	0.0787	18.00	70.00	**405N45**
2.10	0.0827	19.00	70.00	**405N46**
2.20	0.0866	20.00	70.00	**405N47**
2.30	0.0906	21.00	70.00	**405N48**
2.40	0.0945	22.00	70.00	**405N50**
2.50	0.0984	23.00	70.00	**405N51**
2.60	0.1024	24.00	78.00	**405N52**
2.70	0.1063	25.00	78.00	**405N53**
2.80	0.1102	26.00	78.00	**405N55**
2.90	0.1142	27.00	78.00	**405N56**
3.00	0.1181	27.00	78.00	**405N57**
3.10	0.1220	28.00	86.00	**405N58**
3.20	0.1260	29.00	86.00	**405N60**
3.30	0.1299	30.00	86.00	**405N61**
3.40	0.1339	31.00	86.00	**405N62**
3.50	0.1378	32.00	86.00	**405N63**
3.60	0.1417	33.00	86.00	**405N64**
3.70	0.1457	34.00	86.00	**405N65**
3.80	0.1496	35.00	86.00	**405N66**
3.90	0.1535	36.00	86.00	**405N67**
4.00	0.1575	36.00	86.00	**405N69**
4.10	0.1614	37.00	95.00	**405N71**
4.20	0.1654	38.00	95.00	**405N73**
4.30	0.1693	39.00	95.00	**405N75**
4.40	0.1732	40.00	95.00	**405N78**
4.50	0.1772	41.00	95.00	**405N80**
4.60	0.1811	42.00	95.00	**405N82**
4.90	0.1929	45.00	95.00	**405N89**
5.00	0.1969	45.00	95.00	**405N91**
5.10	0.2008	41.00	100.00	**405N93**
5.20	0.2047	42.00	100.00	**405N95**
5.30	0.2087	43.00	100.00	**405N96**
5.40	0.2126	44.00	100.00	**405N97**
5.50	0.2165	44.00	100.00	**405N99**
5.60	0.2205	45.00	100.00	**405P02**
5.70	0.2244	46.00	100.00	**405P03**
5.80	0.2283	47.00	100.00	**405P04**
5.90	0.2323	48.00	100.00	**405P05**
6.00	0.2362	48.00	100.00	**405P07**
6.10	0.2402	49.00	109.00	**405P08**
6.20	0.2441	50.00	109.00	**405P10**
6.30	0.2480	51.00	109.00	**405P12**
6.40	0.2520	52.00	109.00	**405P15**
6.50	0.2559	52.00	109.00	**405P17**
6.60	0.2598	53.00	109.00	**405P20**
6.70	0.2638	54.00	109.00	**405P22**
6.80	0.2677	55.00	109.00	**405P25**
6.90	0.2717	56.00	109.00	**405P27**
7.00	0.2756	56.00	109.00	**405P29**
7.10	0.2795	57.00	118.00	**405P31**
7.20	0.2835	58.00	118.00	**405P33**
7.30	0.2874	59.00	118.00	**405P34**
7.40	0.2913	60.00	118.00	**405P35**
7.50	0.2953	60.00	118.00	**405P36**
7.60	0.2992	61.00	118.00	**405P38**
7.70	0.3031	62.00	118.00	**405P39**
7.80	0.3071	63.00	118.00	**405P40**
7.90	0.3110	64.00	118.00	**405P41**
8.00	0.3150	64.00	118.00	**405P43**
8.10	0.3189	65.00	128.00	**405P44**
8.20	0.3228	66.00	128.00	**405P46**
8.30	0.3268	67.00	128.00	**405P48**
8.40	0.3307	68.00	128.00	**405P51**
8.50	0.3346	68.00	128.00	**405P54**
8.60	0.3386	69.00	128.00	**405P56**
8.70	0.3425	70.00	128.00	**405P58**
8.80	0.3465	71.00	128.00	**405P61**
8.90	0.3504	72.00	128.00	**405P63**
9.00	0.3543	72.00	128.00	**405P65**
9.10	0.3583	73.00	136.00	**405P67**
9.20	0.3622	74.00	136.00	**405P69**
9.30	0.3661	75.00	136.00	**405P70**
9.40	0.3701	76.00	136.00	**405P71**
9.50	0.3740	76.00	136.00	**405P72**
9.60	0.3780	77.00	136.00	**405P74**
9.70	0.3819	78.00	136.00	**405P75**
9.80	0.3858	79.00	136.00	**405P76**
9.90	0.3898	80.00	136.00	**405P77**
10.00	0.3937	80.00	136.00	**405P79**
10.20	0.4016	82.00	146.00	**405P82**
10.50	0.4134	84.00	146.00	**405P89**
10.80	0.4252	87.00	146.00	**405P96**
11.00	0.4331	88.00	146.00	**405R01**
11.50	0.4528	92.00	156.00	**405R08**
12.00	0.4724	96.00	156.00	**405R15**
12.50	0.4921	100.00	167.00	**405R25**
13.00	0.5118	104.00	167.00	**405R36**
13.50	0.5315	108.00	176.00	**405R43**
14.00	0.5512	112.00	176.00	**405R48**
14.50	0.5709	116.00	185.00	**405R58**
15.00	0.5906	120.00	185.00	**405R68**
15.50	0.6102	124.00	193.00	**405R74**
16.00	0.6299	128.00	193.00	**405R80**
16.50	0.6496	132.00	201.00	**405R82**
17.00	0.6693	136.00	201.00	**405R85**
17.50	0.6890	140.00	209.00	**405R87**
18.00	0.7087	144.00	209.00	**405R88**
18.50	0.7283	148.00	217.00	**405R89**
19.00	0.7480	152.00	217.00	**405R91**
19.50	0.7677	156.00	225.00	**405R95**
20.00	0.7874	160.00	225.00	**405R96**



Production Grade Metric Taper Length Solid Carbide Drill Bits, 140 °

- X Thinning point
- EgiAs finish

High-performance drills have a sharp cutting action that reduces thrust forces and produces smaller chips. The proprietary coating and cutting-edge coolant delivery helps reduce heat and improve chip evacuation. Use on a variety of ferrous and non ferrous materials.

Size (mm)	Decimal Equivalent	Flute Length (mm)	Overall Length (mm)	Item No.
List # 6530				
2.00	0.0787	26.00	75.00	**405U49**
2.10	0.0827	33.00	75.00	**405U50**
2.20	0.0866	33.00	75.00	**405U51**
2.30	0.0906	33.00	75.00	**405U52**
2.40	0.0945	33.00	75.00	**405U54**
2.50	0.0984	33.00	75.00	**405U55**
2.60	0.1024	40.00	90.00	**405U56**
2.70	0.1063	40.00	90.00	**405U57**
2.80	0.1102	40.00	90.00	**405U59**
2.90	0.1142	40.00	90.00	**405U60**
3.00	0.1181	40.00	90.00	**405U61**
3.10	0.1220	45.00	100.00	**405U62**
3.20	0.1260	45.00	100.00	**405U64**
3.30	0.1299	45.00	100.00	**405U65**
3.40	0.1339	50.00	100.00	**405U66**
3.50	0.1378	50.00	100.00	**405U67**
3.60	0.1417	50.00	100.00	**405U68**
3.70	0.1457	50.00	100.00	**405U69**
3.80	0.1496	50.00	100.00	**405U70**
3.90	0.1535	50.00	100.00	**405U71**
4.00	0.1575	50.00	100.00	**405U73**
4.10	0.1614	55.00	115.00	**405U75**
4.20	0.1654	55.00	115.00	**405U76**
4.30	0.1693	60.00	115.00	**405U77**
4.40	0.1732	60.00	115.00	**405U78**
4.50	0.1772	60.00	115.00	**405U79**
4.60	0.1811	60.00	115.00	**405U81**
#13	0.1850	65.00	115.00	**405U82**
#12	0.1890	65.00	115.00	**405U84**
4.90	0.1929	65.00	115.00	**405U85**
5.00	0.1969	65.00	115.00	**405U86**
5.10	0.2008	70.00	128.00	**405U88**
5.20	0.2047	70.00	128.00	**405U90**
5.30	0.2087	70.00	128.00	**405U91**
5.40	0.2126	78.00	128.00	**405U92**
5.50	0.2165	78.00	128.00	**405U94**
5.60	0.2205	78.00	128.00	**405U96**
5.70	0.2244	78.00	128.00	**405U97**
5.80	0.2283	78.00	128.00	**405U98**
5.90	0.2323	78.00	128.00	**405U99**
6.00	0.2362	78.00	128.00	**405V01**
6.10	0.2402	87.00	140.00	**405V02**
6.20	0.2441	87.00	140.00	**405V03**
6.30	0.2480	87.00	140.00	**405V05**
6.40	0.2520	87.00	140.00	**405V07**
6.50	0.2559	87.00	140.00	**405V08**
6.60	0.2598	87.00	140.00	**405V11**
6.70	0.2638	87.00	140.00	**405V12**
6.80	0.2677	90.00	140.00	**405V14**
6.90	0.2717	90.00	140.00	**405V15**
7.00	0.2756	90.00	140.00	**405V16**
7.10	0.2795	100.00	155.00	**405V18**
7.20	0.2835	100.00	155.00	**405V20**
7.30	0.2874	100.00	155.00	**405V21**
7.40	0.2913	100.00	155.00	**405V22**
7.50	0.2953	100.00	155.00	**405V23**
7.60	0.2992	105.00	155.00	**405V24**
7.70	0.3031	105.00	155.00	**405V25**
7.80	0.3071	105.00	155.00	**405V26**
7.90	0.3110	105.00	155.00	**405V27**
8.00	0.3150	105.00	155.00	**405V29**
8.10	0.3189	110.00	165.00	**405V30**
8.20	0.3228	110.00	165.00	**405V31**
8.30	0.3268	110.00	165.00	**405V32**
8.40	0.3307	110.00	165.00	**405V34**
8.50	0.3346	110.00	165.00	**405V36**
8.60	0.3386	115.00	165.00	**405V38**
8.70	0.3425	115.00	165.00	**405V39**
8.80	0.3465	115.00	165.00	**405V41**
8.90	0.3504	115.00	165.00	**405V42**
9.00	0.3543	115.00	165.00	**405V43**
9.10	0.3583	125.00	190.00	**405V45**
9.20	0.3622	125.00	190.00	**405V46**
9.30	0.3661	125.00	190.00	**405V47**
9.40	0.3701	125.00	190.00	**405V48**
9.50	0.3740	125.00	190.00	**405V49**
9.60	0.3780	130.00	190.00	**405V51**
9.70	0.3819	130.00	190.00	**405V52**
9.80	0.3858	130.00	190.00	**405V53**
9.90	0.3898	130.00	190.00	**405V54**
10.00	0.3937	130.00	190.00	**405V55**
10.20	0.4016	140.00	205.00	**405V57**
10.50	0.4134	140.00	205.00	**405V60**
10.80	0.4252	145.00	205.00	**405V64**
11.00	0.4331	145.00	205.00	**405V66**
11.50	0.4528	155.00	215.00	**405V73**
12.00	0.4724	155.00	215.00	**405V79**
12.50	0.4921	155.00	215.00	**405V80**



TiAlN/AlCrN

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
3XD				
1/8"	0.1250	3/4 in	2 7/16 in	**53AR50**
9/64"	0.1406	3/4 in	2 7/16 in	**53AU16**
5/32"	0.1563	15/16 in	2 19/32 in	**53AU43**
11/64"	0.1719	15/16 in	2 19/32 in	**53AU54**
3/16"	0.1875	1 1/16 in	2 19/32 in	**53AU78**
13/64"	0.2031	1 1/16 in	2 19/32 in	**53AU84**
7/32"	0.2188	1 1/16 in	2 19/32 in	**53AV12**
15/64"	0.2344	1 1/16 in	2 19/32 in	**53AV14**
1/4"	0.2500	1 5/16 in	3 3/32 in	**53AV45**
17/64"	0.2656	1 5/16 in	3 3/32 in	**53AV50**
9/32"	0.2813	1 9/16 in	3 3/32 in	**53AV76**
19/64"	0.2969	1 9/16 in	3 3/32 in	**53AV78**
5XD				
1/8"	0.1250	1 1/16 in	2 19/32 in	**53AR62**
9/64"	0.1406	1 1/16 in	2 19/32 in	**53AR97**
5/32"	0.1563	1 3/8 in	2 29/32 in	**53AT06**
11/64"	0.1719	1 3/8 in	2 29/32 in	**53AT30**
3/16"	0.1875	1 11/16 in	3 7/32 in	**53AT36**
13/64"	0.2031	1 11/16 in	3 7/32 in	**53AT63**
7/32"	0.2188	1 11/16 in	3 7/32 in	**53AT68**
15/64"	0.2344	1 11/16 in	3 7/32 in	**53AT95**
1/4"	0.2500	2 1/16 in	3 9/16 in	**53AU01**
17/64"	0.2656	2 1/16 in	3 9/16 in	**53AU19**
9/32"	0.2813	2 1/16 in	3 9/16 in	**53AU31**
19/64"	0.2969	2 1/16 in	3 9/16 in	**53AU49**
8XD				
1/8 in	0.1250	1 21/64 in	2 29/32 in	**53AW62**
9/64 in	0.1406	1 21/64 in	2 29/32 in	**53AW88**
5/32 in	0.1562	1 49/64 in	3 1/32 in	**53AW90**
11/64 in	0.1719	1 49/64 in	3 1/32 in	**53AR19**
3/16 in	0.1875	2 15/64 in	3 13/16 in	**53AR24**
13/64 in	0.2031	2 15/64 in	3 13/16 in	**53AP96**
7/32 in	0.2188	2 15/64 in	3 13/16 in	**53AR33**
15/64 in	0.2344	2 15/64 in	3 13/16 in	**53AR38**
1/4 in	0.2500	2 19/32 in	4 11/64 in	**53AR65**
17/64 in	0.2656	2 19/32 in	4 11/64 in	**53AR74**
9/32 in	0.2812	2 63/64 in	4 9/16 in	**53AT08**
19/64 in	0.2969	2 63/64 in	4 9/16 in	**53AT13**

Size (mm)	Decimal Equivalent	Flute Length	Overall Length	Item No.
3XD				
3.00	0.1181	20.00 mm	62.00 mm	**53AR48**
3.10	0.1220	20.00 mm	62.00 mm	**53AR49**
3.20	0.1260	20.00 mm	62.00 mm	**53AR51**
3.30	0.1299	20.00 mm	62.00 mm	**53AR52**
3.40	0.1339	20.00 mm	62.00 mm	**53AR91**
3.50	0.1378	20.00 mm	62.00 mm	**53AR92**
3.60	0.1417	20.00 mm	62.00 mm	**53AU17**
3.70	0.1457	20.00 mm	62.00 mm	**53AU29**
3.80	0.1496	24.00 mm	66.00 mm	**53AU41**
3.90	0.1535	24.00 mm	66.00 mm	**53AU42**
4.00	0.1575	24.00 mm	66.00 mm	**53AU44**
4.10	0.1614	24.00 mm	66.00 mm	**53AU45**
4.20	0.1654	24.00 mm	66.00 mm	**53AU46**
4.30	0.1693	24.00 mm	66.00 mm	**53AU47**
4.40	0.1732	24.00 mm	66.00 mm	**53AU55**
4.50	0.1772	24.00 mm	66.00 mm	**53AU56**
4.60	0.1811	24.00 mm	66.00 mm	**53AU48**
#13	0.1850	15/16 in	2 19/32 in	**53AU77**
#12	0.1890	1 1/16 in	2 19/32 in	**53AU79**
4.90	0.1929	28.00 mm	66.00 mm	**53AU80**
5.00	0.1969	28.00 mm	66.00 mm	**53AU81**
5.10	0.2008	28.00 mm	66.00 mm	**53AU82**
5.20	0.2047	28.00 mm	66.00 mm	**53AU85**
5.30	0.2087	28.00 mm	66.00 mm	**53AU86**
5.40	0.2126	28.00 mm	66.00 mm	**53AU83**
5.50	0.2165	28.00 mm	66.00 mm	**53AV10**
5.60	0.2205	28.00 mm	66.00 mm	**53AV13**
5.70	0.2244	28.00 mm	66.00 mm	**53AV15**
5.80	0.2283	28.00 mm	66.00 mm	**53AV16**
5.90	0.2323	28.00 mm	66.00 mm	**53AV17**
6.00	0.2362	28.00 mm	66.00 mm	**53AV18**
6.10	0.2402	34.00 mm	79.00 mm	**53AV19**
6.20	0.2441	34.00 mm	79.00 mm	**53AV20**
6.30	0.2480	34.00 mm	79.00 mm	**53AV43**
6.40	0.2520	34.00 mm	79.00 mm	**53AV46**
6.50	0.2559	34.00 mm	79.00 mm	**53AV47**
6.60	0.2598	34.00 mm	79.00 mm	**53AV44**
6.70	0.2638	34.00 mm	79.00 mm	**53AV49**
6.80	0.2677	34.00 mm	79.00 mm	**53AV51**
6.90	0.2717	34.00 mm	79.00 mm	**53AV48**
7.00	0.2756	34.00 mm	79.00 mm	**53AV63**
7.10	0.2795	41.00 mm	79.00 mm	**53AV64**
7.20	0.2835	41.00 mm	79.00 mm	**53AV77**
7.30	0.2874	41.00 mm	79.00 mm	**53AV79**
7.40	0.2913	41.00 mm	79.00 mm	**53AV80**
7.50	0.2953	41.00 mm	79.00 mm	**53AV81**

Size (mm)	Decimal Equivalent	Flute Length	Overall Length	Item No.
5XD				
3.00	0.1181	28.00 mm	66.00 mm	**53AR60**
3.10	0.1220	28.00 mm	66.00 mm	**53AR61**
3.20	0.1260	28.00 mm	66.00 mm	**53AR63**
3.30	0.1299	28.00 mm	66.00 mm	**53AR93**
3.40	0.1339	28.00 mm	66.00 mm	**53AR94**
3.50	0.1378	28.00 mm	66.00 mm	**53AR95**
3.60	0.1417	28.00 mm	66.00 mm	**53AR98**
3.70	0.1457	28.00 mm	66.00 mm	**53AR99**
3.80	0.1496	36.00 mm	74.00 mm	**53AR96**
3.90	0.1535	36.00 mm	74.00 mm	**53AT05**
4.00	0.1575	36.00 mm	74.00 mm	**53AT07**
4.10	0.1614	36.00 mm	74.00 mm	**53AT01**
4.20	0.1654	36.00 mm	74.00 mm	**53AT27**
4.30	0.1693	36.00 mm	74.00 mm	**53AT29**
4.40	0.1732	36.00 mm	74.00 mm	**53AT31**
4.50	0.1772	36.00 mm	74.00 mm	**53AT28**
4.60	0.1811	36.00 mm	74.00 mm	**53AT32**
#13	0.1850	1 3/8 in	2 29/32 in	**53AT35**
#12	0.1890	1 11/16 in	3 7/32 in	**53AT37**
4.90	0.1929	44.00 mm	82.00 mm	**53AT34**
5.00	0.1969	44.00 mm	82.00 mm	**53AT61**
5.10	0.2008	44.00 mm	82.00 mm	**53AT62**
5.20	0.2047	44.00 mm	82.00 mm	**53AT52**
5.30	0.2087	44.00 mm	82.00 mm	**53AT64**
5.40	0.2126	44.00 mm	82.00 mm	**53AT65**
5.50	0.2165	44.00 mm	82.00 mm	**53AT66**
5.60	0.2205	44.00 mm	82.00 mm	**53AT69**
5.70	0.2244	44.00 mm	82.00 mm	**53AT70**
5.80	0.2283	44.00 mm	82.00 mm	**53AT93**
5.90	0.2323	44.00 mm	82.00 mm	**53AT94**
6.00	0.2362	44.00 mm	82.00 mm	**53AT96**
6.10	0.2402	53.00 mm	91.00 mm	**53AT97**
6.20	0.2441	53.00 mm	91.00 mm	**53AT98**
6.30	0.2480	53.00 mm	91.00 mm	**53AT99**
6.40	0.2520	53.00 mm	91.00 mm	**53AU02**
6.50	0.2559	53.00 mm	91.00 mm	**53AU03**
6.60	0.2598	53.00 mm	91.00 mm	**53AU04**
6.70	0.2638	53.00 mm	91.00 mm	**53AU18**
6.80	0.2677	53.00 mm	91.00 mm	**53AU20**
6.90	0.2717	53.00 mm	91.00 mm	**53AU21**
7.00	0.2756	53.00 mm	91.00 mm	**53AU22**
7.10	0.2795	53.00 mm	91.00 mm	**53AU30**
7.20	0.2835	53.00 mm	91.00 mm	**53AU32**
7.30	0.2874	53.00 mm	91.00 mm	**53AU33**
7.40	0.2913	53.00 mm	91.00 mm	**53AU23**
7.50	0.2953	53.00 mm	91.00 mm	**53AU24**
8XD				
3.00	0.1181	34.00mm	74.00mm	**53AW59**
3.10	0.1220	34.00mm	74.00mm	**53AW61**
3.20	0.1260	34.00mm	74.00mm	**53AW63**
3.30	0.1299	34.00mm	74.00mm	**53AW60**
3.40	0.1339	34.00mm	74.00mm	**53AW64**
3.50	0.1378	34.00mm	74.00mm	**53AW87**
3.60	0.1417	34.00mm	74.00mm	**53AW89**
3.70	0.1457	34.00mm	74.00mm	**53AW91**
3.80	0.1496	45.00mm	85.00mm	**53AW92**
3.90	0.1535	45.00mm	85.00mm	**53AW93**
4.00	0.1575	45.00mm	85.00mm	**53AW94**
4.10	0.1614	45.00mm	85.00mm	**53AW95**
4.20	0.1654	45.00mm	85.00mm	**53AW96**
4.30	0.1693	45.00mm	85.00mm	**53AW97**
4.40	0.1732	45.00mm	85.00mm	**53AR20**
4.50	0.1772	45.00mm	85.00mm	**53AR21**
4.60	0.1811	45.00mm	85.00mm	**53AR22**
4.90	0.1929	57.00mm	97.00mm	**53AR26**
5.00	0.1969	57.00mm	97.00mm	**53AP94**
5.10	0.2008	57.00mm	97.00mm	**53AP95**
5.20	0.2047	57.00mm	97.00mm	**53AR10**
5.30	0.2087	57.00mm	97.00mm	**53AR31**
5.40	0.2126	57.00mm	97.00mm	**53AR32**
5.50	0.2165	57.00mm	97.00mm	**53AR11**
5.60	0.2205	57.00mm	97.00mm	**53AR34**
5.70	0.2244	57.00mm	97.00mm	**53AR35**
5.80	0.2283	57.00mm	97.00mm	**53AR36**
5.90	0.2323	57.00mm	97.00mm	**53AR37**
6.00	0.2362	57.00mm	97.00mm	**53AR39**
6.10	0.2402	66.00mm	106.00mm	**53AR64**
6.20	0.2441	66.00mm	106.00mm	**53AR71**
6.30	0.2480	66.00mm	106.00mm	**53AR72**
6.40	0.2520	66.00mm	106.00mm	**53AR73**
6.50	0.2559	66.00mm	106.00mm	**53AR75**
6.60	0.2598	66.00mm	106.00mm	**53AR76**
6.70	0.2638	66.00mm	106.00mm	**53AR77**
6.80	0.2677	66.00mm	106.00mm	**53AR78**
6.90	0.2717	66.00mm	106.00mm	**53AR79**
7.00	0.2756	66.00mm	106.00mm	**53AT02**
7.10	0.2795	76.00mm	116.00mm	**53AT03**
7.20	0.2835	76.00mm	116.00mm	**53AT09**
7.30	0.2874	76.00mm	116.00mm	**53AT04**
7.40	0.2913	76.00mm	116.00mm	**53AT10**
7.50	0.2953	76.00mm	116.00mm	**53AT12**
7.60	0.2992	76.00mm	116.00mm	**53AT14**
7.70	0.3031	76.00mm	116.00mm	**53AT11**

WALTER

Production Grade DC170 Carbide Drill Bits, 140°

- TiAlN/AlCrN finish
- Internal cooling

With 360° coolant coverage and polished flutes that help optimize chip removal, these right-handed solid carbide drills provide 50% longer tool life and 35% higher workpiece values in general drilling and mechanical engineering applications when compared to conventional solid carbide drills. Specifically designed for use in ISO material groups P and K.

Size (mm)	Decimal Equivalent	Flute Length	Overall Length	Item No.
12XD				
3.00	0.1181	54.00mm	92.00mm	**53AV41**
3.10	0.1220	54.00mm	92.00mm	**53AV42**
1/8 in	0.1250	2.1260 in	3.6220 in	**53AV65**
3.20	0.1260	54.00mm	92.00mm	**53AV66**
3.30	0.1299	54.00mm	92.00mm	**53AV68**
3.40	0.1339	54.00mm	92.00mm	**53AV67**
3.50	0.1378	54.00mm	92.00mm	**53AV69**
9/64 in	0.1406	2.1260 in	3.6220 in	**53AV72**
3.60	0.1417	54.00mm	92.00mm	**53AV73**
3.70	0.1457	54.00mm	92.00mm	**53AV71**
3.80	0.1496	64.00mm	102.00mm	**53AV70**
3.90	0.1535	64.00mm	102.00mm	**53AV74**
5/32 in	0.1563	2.5200 in	4.0160 in	**53AV75**
4.00	0.1575	64.00mm	102.00mm	**53AV95**
4.10	0.1614	64.00mm	102.00mm	**53AV99**
4.20	0.1654	64.00mm	102.00mm	**53AW02**
4.30	0.1693	64.00mm	102.00mm	**53AW01**
11/64 in	0.1719	2.5200 in	4.0160 in	**53AW03**
4.40	0.1732	64.00mm	102.00mm	**53AW04**
4.50	0.1772	64.00mm	102.00mm	**53AW29**
4.60	0.1811	64.00mm	102.00mm	**53AW28**
#13	0.1850	2.5200 in	4.0160 in	**53AW30**
3/16 in	0.1875	3.2680 in	4.7640 in	**53AW31**
#12	0.1890	3.2680 in	4.7640 in	**53AW32**
4.90	0.1929	83.00mm	121.00mm	**53AW27**
5.00	0.1969	83.00mm	121.00mm	**53AW33**
5.10	0.2008	83.00mm	121.00mm	**53AW34**
13/64 in	0.2031	3.2680 in	4.7640 in	**53AW35**
5.20	0.2047	83.00mm	121.00mm	**53AW36**
5.30	0.2087	83.00mm	121.00mm	**53AW37**
5.40	0.2126	83.00mm	121.00mm	**53AW38**
5.50	0.2165	83.00mm	121.00mm	**53AW44**
7/32 in	0.2188	3.2680 in	4.7640 in	**53AW45**
5.60	0.2205	83.00mm	121.00mm	**53AW46**
5.70	0.2244	83.00mm	121.00mm	**53AW65**
5.80	0.2283	83.00mm	121.00mm	**53AW66**
5.90	0.2323	83.00mm	121.00mm	**53AW67**
6.00	0.2362	83.00mm	121.00mm	**53AW68**
6.10	0.2402	110.00mm	148.00mm	**53AW70**
6.20	0.2441	110.00mm	148.00mm	**53AW71**
6.30	0.2480	110.00mm	148.00mm	**53AW72**
1/4 in	0.2500	4.3310 in	5.8270 in	**53AW69**
6.40	0.2520	110.00mm	148.00mm	**53AW73**
6.50	0.2559	110.00mm	148.00mm	**53AW74**
6.60	0.2598	110.00mm	148.00mm	**53AW75**
6.70	0.2638	110.00mm	148.00mm	**53AW98**
6.80	0.2677	110.00mm	148.00mm	**53AX01**
6.90	0.2717	110.00mm	148.00mm	**53AX02**
7.00	0.2756	110.00mm	148.00mm	**53AX03**
7.10	0.2795	110.00mm	148.00mm	**53AX05**
9/32 in	0.2813	4.3310 in	5.8270 in	**53AX06**
7.20	0.2835	110.00mm	148.00mm	**53AX07**
7.30	0.2874	110.00mm	148.00mm	**53AX08**
7.40	0.2913	110.00mm	148.00mm	**53AX09**
7.50	0.2953	110.00mm	148.00mm	**53AX04**
19/64 in	0.2969	4.3310 in	5.8270 in	**53AR12**
7.80	0.3071	110.00mm	148.00mm	**53AP97**
7.90	0.3110	110.00mm	148.00mm	**53AP98**
16XD				
1/8 in	0.1250	2.5980 in	3.8580 in	**53AP72**
20XD				
9/64 in	0.1406	3.6220 in	4.8820 in	**53AP79**
25XD				
3.00	0.1181	84.00mm	119.00mm	**53AX12**
30XD				
3.00	0.1181	97.00mm	132.00mm	**53AX48**

WALTER



AlCrN

Jobber Grade A1249XPL High-Speed Drill Bits

▪ **For additional sizes, go to Grainger.com®**

Professional machinists can rely on these drill bits for a wide variety of projects. Primary applications include materials with difficult cutting properties such as heat-resistant special alloys based on iron, nickel and cobalt, titanium and titanium alloys, plastics, glass and carbon fiber reinforced plastics, and graphite. Secondary applications include all types of steel and steel casting with the exception of steel with an austenitic structure, austenitic stainless steel, austenitic-ferritic steel and steel casting, grey cast iron, cast iron with spheroidal graphite, malleable cast iron, cast iron with vermicular graphite, aluminum and other nonferrous metals, and nonferrous materials.

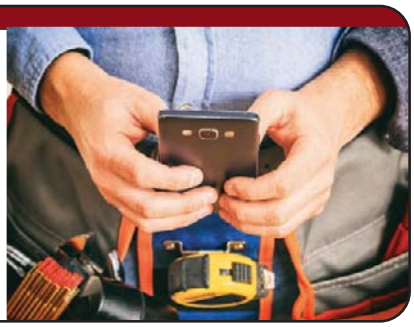
Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
8xD				
#1	0.2280	57.00mm	93.00mm	**441Z07**
#2	0.2210	57.00mm	93.00mm	**441Z18**
#3	0.2130	57.00mm	93.00mm	**441Z29**
#4	0.2090	57.00mm	93.00mm	**441Z40**
#5	0.2055	52.00mm	86.00mm	**441Z51**
#6	0.2040	52.00mm	86.00mm	**441Z62**
#7	0.2010	52.00mm	86.00mm	**441Z64**
#8	0.1990	52.00mm	86.00mm	**441Z65**
#9	0.1960	52.00mm	86.00mm	**441Z66**
#10	0.1935	52.00mm	86.00mm	**441Z08**
#11	0.1910	52.00mm	86.00mm	**441Z09**
#12	0.1890	52.00mm	86.00mm	**441Y45**
	0.1890	52.00mm	86.00mm	**441Z10**
#13	0.1850	47.00mm	80.00mm	**441Y44**
	0.1850	47.00mm	80.00mm	**441Z11**
#14	0.1820	47.00mm	80.00mm	**441Z12**
#15	0.1800	47.00mm	80.00mm	**441Z13**
#16	0.1770	47.00mm	80.00mm	**441Z14**
#17	0.1730	47.00mm	80.00mm	**441Z15**
#18	0.1695	47.00mm	80.00mm	**441Z16**
#19	0.1660	43.00mm	75.00mm	**441Z17**
#20	0.1610	43.00mm	75.00mm	**441Z19**
#21	0.1590	43.00mm	75.00mm	**441Z20**
#22	0.1570	43.00mm	75.00mm	**441Z21**
#23	0.1540	43.00mm	75.00mm	**441Z22**
#24	0.1520	43.00mm	75.00mm	**441Z23**
#25	0.1495	43.00mm	75.00mm	**441Z24**
#26	0.1470	39.00mm	70.00mm	**441Z25**
#27	0.1440	39.00mm	70.00mm	**441Z26**
#28	0.1405	39.00mm	70.00mm	**441Z27**
#29	0.1360	39.00mm	70.00mm	**441Z28**
#30	0.1285	36.00mm	65.00mm	**441Z30**
#31	0.1200	36.00mm	65.00mm	**441Z31**
#32	0.1160	33.00mm	61.00mm	**441Z32**
#33	0.1130	33.00mm	61.00mm	**441Z33**
#34	0.1110	33.00mm	61.00mm	**441Z34**
#35	0.1100	33.00mm	61.00mm	**441Z35**
#36	0.1065	33.00mm	61.00mm	**441Z36**
#37	0.1040	30.00mm	57.00mm	**441Z37**
#38	0.1015	30.00mm	57.00mm	**441Z38**
#39	0.0995	30.00mm	57.00mm	**441Z39**
#40	0.0980	30.00mm	57.00mm	**441Z41**
#41	0.0960	30.00mm	57.00mm	**441Z42**
#42	0.0935	30.00mm	57.00mm	**441Z43**
#43	0.0890	27.00mm	53.00mm	**441Z44**
#44	0.0860	27.00mm	53.00mm	**441Z45**
#45	0.0820	24.00mm	49.00mm	**441Z46**
#46	0.0810	24.00mm	49.00mm	**441Z47**
#47	0.0785	24.00mm	49.00mm	**441Z48**
#48	0.0760	24.00mm	49.00mm	**441Z49**
#49	0.0730	22.00mm	46.00mm	**441Z50**
#50	0.0700	22.00mm	46.00mm	**441Z52**
#51	0.0670	22.00mm	46.00mm	**441Z53**
#52	0.0635	20.00mm	43.00mm	**441Z54**
#53	0.0595	20.00mm	43.00mm	**441Z55**
#54	0.0550	18.00mm	40.00mm	**441Z56**
#55	0.0520	18.00mm	40.00mm	**441Z57**
#56	0.0465	16.00mm	38.00mm	**441Z58**
#57	0.0430	14.00mm	36.00mm	**441Z59**
#58	0.0420	14.00mm	36.00mm	**441Z60**
#59	0.0410	12.00mm	34.00mm	**441Z61**
#60	0.0400	12.00mm	34.00mm	**441Z63**
1.00mm	0.0394	12.00mm	34.00mm	**441X63**
1.10mm	0.0433	14.00mm	36.00mm	**441X64**
1.20mm	0.0472	16.00mm	38.00mm	**441X65**
1.30mm	0.0512	16.00mm	38.00mm	**441X66**
1.40mm	0.0551	18.00mm	40.00mm	**441X67**
1.50mm	0.0591	18.00mm	40.00mm	**441X68**
1.60mm	0.0630	20.00mm	43.00mm	**441X69**
1.70mm	0.0669	20.00mm	43.00mm	**441X70**
1.80mm	0.0709	22.00mm	46.00mm	**441X71**
1.90mm	0.0748	22.00mm	46.00mm	**441X72**
2.00mm	0.0787	24.00mm	49.00mm	**441Y06**
2.10mm	0.0827	24.00mm	49.00mm	**441Y07**
2.20mm	0.0866	27.00mm	53.00mm	**441Y08**
2.30mm	0.0906	27.00mm	53.00mm	**441Y09**
2.40mm	0.0945	30.00mm	57.00mm	**441Y10**
2.50mm	0.0984	30.00mm	57.00mm	**441Y11**
2.60mm	0.1024	30.00mm	57.00mm	**441Y12**
2.70mm	0.1063	33.00mm	61.00mm	**441Y13**
2.80mm	0.1102	33.00mm	61.00mm	**441Y14**
2.90mm	0.1142	33.00mm	61.00mm	**441Y15**
3.00mm	0.1181	33.00mm	61.00mm	**441Y21**
3.10mm	0.1220	36.00mm	65.00mm	**441Y22**
3.20mm	0.1260	36.00mm	65.00mm	**441Y23**
3.30mm	0.1299	36.00mm	65.00mm	**441Y24**
3.40mm	0.1339	39.00mm	70.00mm	**441Y25**
3.50mm	0.1378	39.00mm	70.00mm	**441Y26**
3.60mm	0.1417	39.00mm	70.00mm	**441Y27**
3.70mm	0.1457	39.00mm	70.00mm	**441Y28**
3.80mm	0.1496	43.00mm	75.00mm	**441Y29**
3.90mm	0.1535	43.00mm	75.00mm	**441Y30**
4.00mm	0.1575	43.00mm	75.00mm	**441Y36**
4.10mm	0.1614	43.00mm	75.00mm	**441Y37**
4.20mm	0.1654	43.00mm	75.00mm	**441Y38**
4.30mm	0.1693	47.00mm	80.00mm	**441Y39**
4.40mm	0.1732	47.00mm	80.00mm	**441Y40**
4.50mm	0.1772	47.00mm	80.00mm	**441Y41**
4.60mm	0.1811	47.00mm	80.00mm	**441Y42**
4.90mm	0.1929	52.00mm	86.00mm	**441Y46**
5.00mm	0.1969	52.00mm	86.00mm	**441Y47**
5.10mm	0.2008	52.00mm	86.00mm	**441Y48**
5.20mm	0.2047	52.00mm	86.00mm	**441Y49**
5.30mm	0.2087	52.00mm	86.00mm	**441Y50**
5.40mm	0.2126	57.00mm	93.00mm	**441Y51**
5.50mm	0.2165	57.00mm	93.00mm	**441Y52**
5.60mm	0.2205	57.00mm	93.00mm	**441Y54**
5.70mm	0.2244	57.00mm	93.00mm	**441Y55**
5.80mm	0.2283	57.00mm	93.00mm	**441Y56**
5.90mm	0.2323	57.00mm	93.00mm	**441Y57**
6.00mm	0.2362	57.00mm	93.00mm	**441Y61**
6.10mm	0.2402	63.00mm	101.00mm	**441Y62**
6.20mm	0.2441	63.00mm	101.00mm	**441Y63**
6.30mm	0.2480	63.00mm	101.00mm	**441Y64**
6.40mm	0.2520	63.00mm	101.00mm	**441Y65**
6.50mm	0.2559	63.00mm	101.00mm	**441Y66**
6.60mm	0.2598	63.00mm	101.00mm	**441Y67**
6.70mm	0.2638	63.00mm	101.00mm	**441Y68**
6.80mm	0.2677	69.00mm	109.00mm	**441Y69**
6.90mm	0.2717	69.00mm	109.00mm	**441Y70**
7.00mm	0.2756	69.00mm	109.00mm	**441Y71**
7.10mm	0.2795	69.00mm	109.00mm	**441Y72**
7.20mm	0.2835	69.00mm	109.00mm	**441Y73**
7.30mm	0.2874	69.00mm	109.00mm	**441Y74**
7.40mm	0.2913	69.00mm	109.00mm	**441Y75**
7.50mm	0.2953	69.00mm	109.00mm	**441Y76**
7.60mm	0.2992	75.00mm	117.00mm	**441Y77**
7.70mm	0.3031	75.00mm	117.00mm	**441Y78**
7.80mm	0.3071	75.00mm	117.00mm	**441Y79**
7.90mm	0.3110	75.00mm	117.00mm	**441Y80**
8.00mm	0.3150	75.00mm	117.00mm	**441Y84**
8.10mm	0.3189	75.00mm	117.00mm	**441Y85**
8.20mm	0.3228	75.00mm	117.00mm	**441Y86**
8.30mm	0.3268	75.00mm	117.00mm	**441Y87**
8.40mm	0.3307	75.00mm	117.00mm	**441Y88**
8.50mm	0.3346	75.00mm	117.00mm	**441Y89**
8.60mm	0.3386	81.00mm	125.00mm	**441Y90**
8.70mm	0.3425	81.00mm	125.00mm	**441Y91**
8.80mm	0.3465	81.00mm	125.00mm	**441Y92**
8.90mm	0.3504	81.00mm	125.00mm	**441Y93**
9.00mm	0.3543	81.00mm	125.00mm	**441Y94**
9.10mm	0.3583	81.00mm	125.00mm	**441Y95**
9.20mm	0.3622	81.00mm	125.00mm	**441Y96**
9.30mm	0.3661	81.00mm	125.00mm	**441Y97**
9.40mm	0.3701	81.00mm	125.00mm	**441Y98**
9.50mm	0.3740	81.00mm	125.00mm	**441Y99**
9.60mm	0.3780	87.00mm	133.00mm	**441Z01**
9.70mm	0.3819	87.00mm	133.00mm	**441Z02**
9.80mm	0.3858	87.00mm	133.00mm	**441Z03**
9.90mm	0.3898	87.00mm	133.00mm	**441Z04**
10.00mm	0.3937	87.00mm	133.00mm	**441X77**
10.20mm	0.4016	87.00mm	133.00mm	**441X78**
10.50mm	0.4134	87.00mm	133.00mm	**441X79**
11.00mm	0.4331	94.00mm	142.00mm	**441X80**
11.50mm	0.4528	94.00mm	142.00mm	**441X83**
12.00mm	0.4724	101.00mm	151.00mm	**441X86**
12.50mm	0.4921	101.00mm	151.00mm	**441X87**
13.00mm	0.5118	101.00mm	151.00mm	**441X88**
13.50mm	0.5315	108.00mm	160.00mm	**441X91**
14.00mm	0.5512	108.00mm	160.00mm	**441X94**
14.50mm	0.5709	114.00mm	169.00mm	**441X95**
15.00mm	0.5906	114.00mm	169.00mm	**441X96**
15.50mm	0.6102	120.00mm	178.00mm	**441X99**
16.00mm	0.6299	120.00mm	178.00mm	**441Y03**
11/32 in	0.3438	81.00mm	125.00mm	**441X84**
1/64 in	0.1719	47.00mm	80.00mm	**441X85**
13/32 in	0.4063	87.00mm	133.00mm	**441X92**
13/64 in	0.2031	52.00mm	86.00mm	**441X93**
15/32 in	0.4688	101.00mm	151.00mm	**441Y01**
15/64 in	0.2344	57.00mm	93.00mm	**441Y02**
17/64 in	0.2656	69.00mm	109.00mm	**441Y04**
19/64 in	0.2969	75.00mm	117.00mm	**441Y05**
21/64 in	0.3281	75.00mm	117.00mm	**441Y16**
23/64 in	0.3594	81.00mm	125.00mm	**441Y17**
25/64 in	0.3906	87.00mm	133.00mm	**441Y18**
27/64 in	0.4219	94.00mm	142.00mm	**441Y19**
29/64 in	0.4531	94.00mm	142.00mm	**441Y20**
31/64 in	0.4844	101.00mm	151.00mm	**441Y35**
1/2 in	0.5000	101.00mm	151.00mm	**441X74**
1/4 in	0.2500	63.00mm	101.00mm	**441X75**
1/8 in	0.1250	36.00mm	65.00mm	**441X76**
1/16 in	0.0625	20.00mm	43.00mm	**441X73**
3/8 in	0.3750	87.00mm	133.00mm	**441Y34**
3/16 in	0.1875	52.00mm	86.00mm	**441Y31**
3/32 in	0.0938	30.00mm	57.00mm	**441Y32**
3/64 in	0.0469	16.00mm	38.00mm	**441Y33**
5/16 in	0.3125	75.00mm	117.00mm	**441Y58**
5/32 in	0.1563	43.00mm	75.00mm	**441Y59**
5/64 in	0.0781	24.00mm	49.00mm	**441Y60**
7/16 in	0.4375	94.00mm	142.00mm	**441Y81**
7/32 in	0.2188	57.00mm	93.00mm	**441Y82**
7/64 in	0.1094	33.00mm	61.00mm	**441Y83**
9/32 in	0.2813	69.00mm	109.00mm	**441Z05**
9/64 in	0.1406	39.00mm	70.00mm	**441Z06**

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**



Black & Gold

WESTWARD CLE-LINE.

Maintenance Grade Mechanics Length HSS Drill Bits, 135°

- Split point
- Black and gold finish

Shorter length provides strength and rigidity. 3 flats on drill bit shank for sizes above 11/64" ensure grip for standard and keyless chucks.

Size	Decimal Equivalent	Flute Length	Overall Length	WESTWARD Item No.	CLE-LINE List# 1875 Item No.
1/16"	0.0625	7/8"	1 7/8"	2UFU5	4GB67
5/64"	0.0781	1"	2"	2UFU6	4GB68
3/32"	0.0938	1 1/4"	2 1/4"	2UFU7	4GB69
7/64"	0.1094	1 5/16"	2 3/8"	2UFU8	4GB70
1/8"	0.1250	1 7/16"	2 1/2"	2UFU9	4GB71
9/64"	0.1406	1 9/16"	2 5/8"	2UFV1	4GB72
5/32"	0.1563	1 11/16"	2 3/4"	2UFV2	4GB73
11/64"	0.1719	1 13/16"	2 7/8"	2UFV3	4GB74
3/16"	0.1875	1 7/8"	3"	2UFV4	4GB75
13/64"	0.2031	1 15/16"	3 1/8"	2UFV5	4GB76
7/32"	0.2188	2"	3 1/4"	2UFV6	4GB77
15/64"	0.2344	2 1/16"	3 3/8"	2UFV7	4GB78
1/4"	0.2500	2"	3 1/2"	2UFV8	4GB79
17/64"	0.2656	2 1/8"	3 5/8"	2UFV9	4GB80
9/32"	0.2813	2 1/4"	3 3/4"	2UFW1	4GB81
19/64"	0.2969	2 3/8"	3 7/8"	2UFW2	4GB82
5/16"	0.3125	2 1/2"	4"	2UFW3	4GB83
21/64"	0.3281	2 9/16"	4 1/16"	2UFW4	4GB84
11/32"	0.3438	2 5/8"	4 1/8"	2UFW5	4GB85
23/64"	0.3594	2 11/16"	4 3/16"	2UFW6	4GB86
3/8"	0.3750	2 11/16"	4 1/8"	2UFW7	—
25/64"	0.3906	2 3/4"	4 5/16"	2UFW8	4GB88
13/32"	0.4063	2 13/16"	4 3/8"	2UFW9	4GB89
27/64"	0.4219	2 7/8"	4 7/16"	2UFX1	4GB90
7/16"	0.4375	2 15/16"	4 1/2"	2UFX2	4GB91
29/64"	0.4531	3"	4 5/8"	2UFX3	4GB92
15/32"	0.4688	3 1/8"	4 3/4"	2UFX4	4GB93
31/64"	0.4844	3 1/4"	4 7/8"	2UFX5	4GB94
1/2"	0.5000	3 3/8"	5"	2UFX6	4GB95
3/8"	0.3750	2 11/16"	4 1/4"	—	4GB87



Black & Gold

CLE-LINE.

Maintenance Grade Mechanics Length Reduced Shank HSS Drill Bits, 135°

- Split point
- 3/8" reduced shank
- Black and gold finish

Shorter length for added strength and rigidity. 3 flats on drill bit shank to ensure grip for standard and keyless chucks.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 1876				
27/64 in	0.4219	2 7/8 in	4 7/16 in	4GB96
7/16 in	0.4375	2 15/16 in	4 1/2 in	4GB97
29/64 in	0.4531	3 in	4 5/8 in	4GB98
15/32 in	0.4688	3 1/8 in	4 3/4 in	4GB99
31/64 in	0.4844	3 1/4 in	4 7/8 in	4GE10
1/2 in	0.5000	3 3/8 in	5 in	4GE11



Straw

CLE-LINE.

Maintenance Grade Mechanics Length Left-Hand Cobalt Drill Bits, 135°

- Split point
- Straw finish

Left-hand helix for use where machine spindles rotate counterclockwise. Reverse action allows tools to be substituted for screw extractors. 8% cobalt HSS allows drill bit to run cooler and last longer. Shorter length provides superior rigidity for portable drilling.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 1880				
5/64"	0.0781	1"	2"	1TPE8
7/64"	0.1094	1"	2 3/8"	1TPE9
1/8"	0.1250	1 7/16"	2 1/2"	1TPF1
5/32"	0.1563	1 11/16"	2 3/4"	1TPF2
3/16"	0.1875	1 7/8"	3"	1TPF3
7/32"	0.2188	2"	3 1/4"	1TPF4
1/4"	0.2500	2"	3 1/2"	1TPF5
9/32"	0.2813	2 1/4"	3 3/4"	1TPF6
19/64"	0.2969	2 3/8"	3 7/8"	1TPF7
5/16"	0.3125	2 1/2"	4"	1TPF8
11/32"	0.3438	2 5/8"	4 1/8"	1TPF9
3/8"	0.3750	2 11/16"	4 1/4"	1TPG1
13/32"	0.4063	2 13/16"	4 3/8"	1TPG2
7/16"	0.4375	2 15/16"	4 1/2"	1TPG3
15/32"	0.4688	3 1/8"	4 3/4"	1TPG4
1/2"	0.5000	3 3/8"	5"	1TPG5



Straw/Bronze

WESTWARD C-L Chicago-Latrobe®

Production Grade Silver and Deming Cobalt Drill Bits, 118°

- 1/2" reduced shank
- Split point

Run drill sizes up to 1 1/2" on portable electric drills or drill presses. No need for tool presetting, and minimal adjustment needed during tool changes. Cobalt drills are ideal for use in harder metals.

Size	Decimal Equivalent	Flute Length	Overall Length	STRAW/BRONZE Chicago-Latrobe® List# 190C Item No.	STRAW/BRONZE Westward Item No.
33/64 in	0.5156	3 1/8 in	6 in	4ZP34	5TVL8
17/32 in	0.5312	3 1/8 in	6 in	4ZP35	—
	0.5313	3 1/8 in	6 in	—	5TVL9
35/64 in	0.5469	3 1/8 in	6 in	4ZP36	5TVN0
9/16 in	0.5625	3 1/8 in	6 in	4ZP37	5TVN1
37/64 in	0.5781	3 1/8 in	6 in	4ZP38	—
19/32 in	0.5938	3 1/8 in	6 in	4ZP39	5TVN3
39/64 in	0.6094	3 1/8 in	6 in	4ZP40	5TVN4
5/8 in	0.6250	3 1/8 in	6 in	4ZP41	5TVN5
41/64 in	0.6406	3 1/8 in	6 in	4ZP42	5TVN6
21/32 in	0.6562	3 1/8 in	6 in	4ZP43	—
	0.6563	3 1/8 in	6 in	—	5TVN7
43/64 in	0.6719	3 1/8 in	6 in	4ZP44	—
11/16 in	0.6875	3 1/8 in	6 in	4ZP45	5TVN9
45/64 in	0.7031	3 1/8 in	6 in	4ZP46	5TVP0
23/32 in	0.7188	3 1/8 in	6 in	4ZP47	5TVP1
3/4 in	0.7500	3 1/8 in	6 in	4ZP49	5TVP2
49/64 in	0.7656	3 1/8 in	6 in	4ZP50	5TVP3
25/32 in	0.7812	3 1/8 in	6 in	4ZP51	—
	0.7813	3 1/8 in	6 in	—	5TVP4
51/64 in	0.7969	3 1/8 in	6 in	4ZP52	—
13/16 in	0.8125	3 1/8 in	6 in	4ZP53	—
53/64 in	0.8281	3 1/8 in	6 in	4ZP54	—
27/32 in	0.8438	3 1/8 in	6 in	4ZP55	5TVP8
7/8 in	0.8750	3 1/8 in	6 in	4ZP57	—
57/64 in	0.8906	3 1/8 in	6 in	4ZP58	5TVR0
29/32 in	0.9062	3 1/8 in	6 in	4ZP59	—
	0.9063	3 1/8 in	6 in	—	5TVR1
59/64 in	0.9219	3 1/8 in	6 in	4ZP60	5TVR2
15/16 in	0.9375	3 1/8 in	6 in	4ZP61	5TVR3
31/32 in	0.9688	3 1/8 in	6 in	4ZP63	5TVR4
1 in	1.0000	3 1/8 in	6 in	4ZP65	5TVR5
1 1/16 in	1.0625	3 1/8 in	6 in	4GE12	5TVR6
1 1/8 in	1.1250	3 1/8 in	6 in	4GE13	5TVR7
1 1/4 in	1.2500	3 1/8 in	6 in	4GE14	—

Size	Decimal Equivalent	BLACK OXIDE Chicago-Latrobe® List# 190 Item No.	BLACK OXIDE Cle-Line® List# 1813 Item No.	BLACK OXIDE Westward Item No.
Round				
1/2 in	0.5000	1P275	—	4UM58
33/64 in	0.5156	1P277	2BT43	4UM59
17/32 in	0.5312	1P279	4AK48	—
	0.5313	—	—	4UM60
35/64 in	0.5469	1P281	2BT44	4UM61
9/16 in	0.5625	1P283	5X989	4UM62
37/64 in	0.5781	1P285	2BT45	—
19/32 in	0.5938	1P287	4AK49	4UM64
39/64 in	0.6094	1P296	2BT46	4UM65
5/8 in	0.6250	1P300	5X990	4UM66
41/64 in	0.6406	1P302	2BT47	4UM67
21/32 in	0.6562	1P304	4AK50	—
	0.6563	—	—	4UM68
43/64 in	0.6719	1P306	2BT48	4UM69
11/16 in	0.6875	1P308	5X991	4UM70
45/64 in	0.7031	1P310	2BT49	4UM71
23/32 in	0.7188	1P312	4AK51	4UM72
47/64 in	0.7344	1P314	2BT50	4UM73
3/4 in	0.7500	1P316	5X992	4UM74
49/64 in	0.7656	1P318	2BT51	4UM75
25/32 in	0.7812	1P320	4AK52	—
	0.7813	—	—	4UM76
51/64 in	0.7969	1P325	—	4UM77
13/16 in	0.8125	1P334	5X993	4UM78
53/64 in	0.8281	1P336	—	4UM79
27/32 in	0.8438	1P338	4AK53	4UM80
55/64 in	0.8594	1P340	—	4UM81
7/8 in	0.8750	1P342	5X996	4UM82
57/64 in	0.8906	1P344	—	4UM83
29/32 in	0.9062	1P346	4AK54	—
	0.9063	—	—	4UM84
59/64 in	0.9219	1P348	—	4UM85
15/16 in	0.9375	1P350	1A051	4UM86
61/64 in	0.9531	1P353	—	4UM87
31/32 in	0.9688	1P355	4AK55	4UM88
63/64 in	0.9844	1P357	—	4UM89
1 in	1.0000	1P361	5X997	4UM90
1 1/64 in	1.0156	4EG68	—	—
1 1/32 in	1.0039	4EG69	—	—
1 3/64 in	1.0469	4EG70	—	—
1 1/16 in	1.0625	1P363	2BT62	2UFX7
1 3/32 in	1.0938	4EG72	—	—
1 1/64 in	1.1094	4EG73	—	—
1 1/8 in	1.1250	1P365	2BT66	2UFX8
1 3/64 in	1.1406	4EG74	—	—
1 5/32 in	1.1562	4EG75	—	—
1 11/64 in	1.1719	4EG76	—	—
1 3/16 in	1.1875	1P370	2BT70	2UFX9
1 7/32 in	1.2188	4EG78	—	—
1 1/4 in	1.2500	1P381	2BT74	2UFY1
1 9/32 in	1.2812	4EG81	—	—
1 5/16 in	1.3125	4EG83	2BT76	2UFY2
1 11/32 in	1.3438	4EG85	—	—
1 3/8 in	1.3750	4EG87	2BT77	2UFY3
1 27/64 in	1.4219	4EG90	—	—
1 7/16 in	1.4375	4EG91	2BT78	2UFY4
1 1/2 in	1.5000	4EG95	2BT79	2UFY5

Size	Decimal Equivalent	BLACK/GOLD Cle-Line® List# 1877 Item No.	BLACK OXIDE Chicago-Latrobe® List# 190F Item No.
Round with Flats			
33/64 in	0.5156	2TGK5	1M877
17/32 in	0.5312	2TGK6	1M879
35/64 in	0.5469	2TGK7	1M881
9/16 in	0.5625	2TGK8	1M883
37/64 in	0.5781	2TGK9	1M885
19/32 in	0.5938	2TGL1	1M887
39/64 in	0.6094	2TGL2	1M889
5/8 in	0.6250	2TGL3	1M891
41/64 in	0.6406	2TGL4	1M893
21/32 in	0.6562	2TGL5	1M895
43/64 in	0.6719	2TGL6	1M897
11/16 in	0.6875	2TGL7	1M899
45/64 in	0.7031	2TGL8	1M901
23/32 in	0.7188	2TGL9	1M903
47/64 in	0.7344	2TGN1	1M905
3/4 in	0.7500	2TGN2	1M907
49/64 in	0.7656	2TGN3	1M909
25/32 in	0.7812	2TGN4	1M911
51/64 in	0.7969	2TGN5	1M913
13/16 in	0.8125	2TGN6	1M915
53/64 in	0.8281	2TGN7	1M917
27/32 in	0.8438	2TGN8	1M919
55/64 in	0.8594	2TGN9	1M921
7/8 in	0.8750	2TGP1	1M923
57/64 in	0.8906	2TGP2	1M925
29/32 in	0.9062	2TGP3	1M927
59/64 in	0.9219	2TGP4	1M929
15/16 in	0.9375	2TGP5	1M931
61/64 in	0.9531	2TGP6	1M933
31/32 in	0.9688	2TGP7	1M935
63/64 in	0.9844	2TGP8	1M937
1 in	1.0000	2TGP9	1M939
1 1/64 in	1.0156	—	1M941
1 1/32 in	1.0039	—	1M943
1 1/16 in	1.0625	2TGR1	1M947
1 3/32 in	1.0938	—	1M951
1 1/64 in	1.1094	—	1M953
1 1/8 in	1.1250	2TGR2	1M955
1 3/64 in	1.1406	—	1M957
1 5/32 in	1.1562	—	1M959
1 3/16 in	1.1875	2TGR3	1M963
1 7/32 in	1.2188	—	1M967
1 1/4 in	1.2500	2TGR4	1M971
1 5/16 in	1.3125	2TGR5	1M979
1 3/8 in	1.3750	2TGR6	1M987
1 7/16 in	1.4375	2TGR7	1M995
1 1/2 in	1.5000	2TGR8	1N636



Black Oxide

WESTWARD · Chicago-Latrobe® · CLE-LINE.

Maintenance-Grade Silver and Deming HSS Drill Bits, 118°

- 1/2" reduced shank
- Round bits are conventional point
- Round with flats are split point

Run drill sizes up to 1 1/2" on portable electric drills or drill presses. Minimal adjustment needed during tool changes. No need for tool presetting. Flatted shanks provide a more positive grip in the drill chuck.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List #110				
#1				
1/8 in	0.1250	1 7/8 in	5 1/8 in	1N680
5/32 in	0.1562	2 1/8 in	5 3/8 in	1N684
3/16 in	0.1875	2 1/2 in	5 3/4 in	1N691
13/64 in	0.2031	2 3/4 in	6 in	4HAN7
7/32 in	0.2188	2 3/4 in	6 in	1N695
15/64 in	0.2344	2 7/8 in	6 1/8 in	4HAN8
1/4 in	0.2500	2 7/8 in	6 1/8 in	1N699
17/64 in	0.2656	3 in	6 1/4 in	4HAN9
9/32 in	0.2812	3 in	6 1/4 in	1N704
19/64 in	0.2969	3 1/8 in	6 3/8 in	4HAP1
5/16 in	0.3125	3 1/8 in	6 3/8 in	1N708
21/64 in	0.3281	3 1/4 in	6 1/2 in	4HAP2
11/32 in	0.3438	3 1/4 in	6 1/2 in	1N712
23/64 in	0.3594	3 1/2 in	6 3/4 in	4HAP3
3/8 in	0.3750	3 1/2 in	6 3/4 in	1N716
25/64 in	0.3906	3 5/8 in	7 in	4HAP4
13/32 in	0.4062	3 5/8 in	7 in	1N720
27/64 in	0.4219	3 7/8 in	7 1/4 in	4HAP5
7/16 in	0.4375	3 7/8 in	7 1/4 in	1N725
29/64 in	0.4531	4 1/8 in	7 1/2 in	4HAP6
15/32 in	0.4688	4 1/8 in	7 1/2 in	1N730
#2				
31/64 in	0.4844	4 3/8 in	8 1/4 in	4HAP7
1/2 in	0.5000	4 3/8 in	8 1/4 in	1N735
33/64 in	0.5156	4 5/8 in	8 1/2 in	4HAP8
17/32 in	0.5312	4 5/8 in	8 1/2 in	1N765
35/64 in	0.5469	4 7/8 in	8 3/4 in	4HAP9
9/16 in	0.5625	4 7/8 in	8 3/4 in	1N769
37/64 in	0.5781	4 7/8 in	8 3/4 in	4HAR1
19/32 in	0.5938	4 7/8 in	8 3/4 in	1N773
39/64 in	0.6094	4 7/8 in	8 3/4 in	4HAR2
5/8 in	0.6250	4 7/8 in	8 3/4 in	1N777
41/64 in	0.6406	5 1/8 in	9 in	4HAR3
21/32 in	0.6562	5 1/8 in	9 in	1N781
43/64 in	0.6719	5 3/8 in	9 1/4 in	4HAR4
11/16 in	0.6875	5 3/8 in	9 1/4 in	1N799
45/64 in	0.7031	5 3/8 in	9 1/2 in	4HAR5
23/32 in	0.7188	5 3/8 in	9 1/2 in	1N803
47/64 in	0.7344	5 7/8 in	9 3/4 in	4HAR6
3/4 in	0.7500	5 7/8 in	9 3/4 in	1N807
49/64 in	0.7656	6 in	9 7/8 in	4HAR7
25/32 in	0.7812	6 in	9 7/8 in	1N811

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
#3				
51/64 in	0.7969	6 1/8 in	1 3/4 in	4HAR8
13/16 in	0.8125	6 1/8 in	1 3/4 in	1N815
53/64 in	0.8281	6 1/8 in	1 3/4 in	4HAR9
27/32 in	0.8438	6 1/8 in	1 3/4 in	1N819
55/64 in	0.8594	6 1/8 in	1 3/4 in	4HAT1
7/8 in	0.8750	6 1/8 in	1 3/4 in	1N823
57/64 in	0.8906	6 1/8 in	1 3/4 in	4HAT2
29/32 in	0.9062	6 1/8 in	1 3/4 in	1N827
59/64 in	0.9219	6 1/8 in	1 3/4 in	4HAT3
15/16 in	0.9375	6 1/8 in	1 3/4 in	1N831
61/64 in	0.9531	6 3/8 in	11 in	4HAT4
31/32 in	0.9688	6 3/8 in	11 in	1N835
63/64 in	0.9844	6 3/8 in	11 in	4HAT5
1 in	1.0000	6 3/8 in	11 in	1N839
1 1/32 in	1.0039	6 1/2 in	11 1/8 in	1N843
1 1/64 in	1.0156	6 1/2 in	11 1/8 in	4HAT6
1 1/16 in	1.0625	6 5/8 in	11 1/4 in	1N847
#4				
1 7/64 in	1.1094	7 1/8 in	12 3/4 in	4HAT9
1 1/8 in	1.1250	7 1/8 in	12 3/4 in	1N855
1 3/16 in	1.1875	7 3/8 in	13 in	1N863
1 1/4 in	1.2500	7 1/8 in	13 1/2 in	1N871
1 5/16 in	1.3125	8 5/8 in	14 1/4 in	1N879
1 11/32 in	1.3438	8 3/4 in	14 3/8 in	4HAU7
1 3/8 in	1.3750	8 7/8 in	14 1/2 in	1N887
1 7/16 in	1.4375	9 1/8 in	14 3/4 in	1N895
1 15/32 in	1.4688	9 1/4 in	14 7/8 in	4HAU9
1 1/2 in	1.5000	9 3/8 in	15 in	1N903
#5				
1 9/16 in	1.5625	9 5/8 in	16 5/8 in	4HAV1
1 5/8 in	1.6250	10 in	17 in	1N905
1 11/16 in	1.6875	1 1/8 in	17 1/8 in	4HAV2
1 3/4 in	1.7500	1 1/8 in	17 1/8 in	1N907
1 13/16 in	1.8125	1 1/8 in	17 1/8 in	4HAV3
1 7/8 in	1.8750	1 3/8 in	17 3/8 in	1N909
2 in	2.0000	1 3/8 in	17 3/8 in	1N911



Chicago-Latrobe®

Production Grade Taper Shank HSS Drill Bits, 118°

- Black oxide finish
- Conventional point
- Taper shank is made to American National Standard (Morse) dimensions

Designed for use in taper holders, these drill bits can be used for drilling many different materials in a wide range of applications.

Chicago-Latrobe®



Production Grade Taper Length HSS Drill Bits, 118°

- Conventional point
- Black oxide finish

Provide longer flute and overall length for deeper drilling and hard-to-reach applications.

Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
List# 120				
1/8 in	0.1250	2 3/4 in	5 1/8 in	2VRZ7
9/64 in	0.1406	3 in	5 3/8 in	2VRZ8
5/32 in	0.1563	3 in	5 3/8 in	2VRZ9
11/64 in	0.1719	3 3/8 in	5 3/4 in	2VTA1
3/16 in	0.1875	3 3/8 in	5 3/4 in	2VTA2
13/64 in	0.2031	3 5/8 in	6 in	2VTA3
7/32 in	0.2188	3 5/8 in	6 in	2VTA4
15/64 in	0.2344	3 3/4 in	6 1/8 in	2VTA5
1/4 in	0.2500	3 3/4 in	6 1/8 in	2VTA6
17/64 in	0.2656	3 7/8 in	6 1/4 in	2VTA7
9/32 in	0.2813	3 7/8 in	6 1/4 in	2VTA8
19/64 in	0.2969	4 in	6 3/8 in	2VTA9
5/16 in	0.3125	4 in	6 3/8 in	2VTC1
21/64 in	0.3281	4 1/8 in	6 1/2 in	2VTC2
11/32 in	0.3438	4 1/8 in	6 1/2 in	2VTC3
23/64 in	0.3594	4 1/4 in	6 3/4 in	2VTC4
3/8 in	0.3750	4 1/4 in	6 3/4 in	2VTC5
25/64 in	0.3906	4 3/8 in	7 in	2VTC6
13/32 in	0.4063	4 3/8 in	7 in	2VTC7
27/64 in	0.4219	4 3/8 in	7 1/4 in	2VTC8
7/16 in	0.4375	4 3/8 in	7 1/4 in	2VTC9
29/64 in	0.4531	4 3/4 in	7 1/2 in	2VTD1
15/32 in	0.4688	4 3/4 in	7 1/2 in	2VTD2
31/64 in	0.4844	4 3/4 in	7 3/4 in	2VTD3
1/2 in	0.5000	4 3/4 in	7 3/4 in	2VTD4
17/32 in	0.5313	4 3/4 in	8 in	2VTD5
9/16 in	0.5625	4 7/8 in	8 1/4 in	2VTD6
19/32 in	0.5938	4 7/8 in	8 3/4 in	2VTD7
5/8 in	0.6250	4 7/8 in	8 3/4 in	2VTD8
21/32 in	0.6563	5 1/8 in	9 in	2VTD9
11/16 in	0.6875	5 3/8 in	9 1/4 in	2VTE1
23/32 in	0.7188	5 5/8 in	9 1/2 in	2VTE2
3/4 in	0.7500	5 7/8 in	9 3/4 in	2VTE3
Sets				
15-Pc., Includes 1/16 in to 1/2 in x 1/32 in				6WUE1
29-Pc., Includes 1/16 in to 1/2 in x 1/64 in				6WUC9
60-Pc., Includes #1 to #60				6WUD0

CLEVELAND



12" Length

Production Grade Extra-Length HSS Aircraft Drill Bits, 135°

- Split point
- Straight shank
- Bright finish

Use to drill holes in deep or inaccessible places that cannot be reached with regular length drills. Jobbers length flute makes drills more rigid. Designed for the aerospace industry and meet National Aerospace Standards (NAS) 907, Type B.

Size	Decimal Equivalent	Flute Length	6 in Item No.	12 in Item No.
List# 3957				
Fractional Inch				
1/16 in	0.0625	7/8 in	1NPC3	1NNZ8
3/32 in	0.0938	1 1/4 in	1NPC4	1NNZ9
1/8 in	0.1250	1 5/8 in	1NPC5	1NPA1
5/32 in	0.1563	2 in	1NPC6	1NPA2
3/16 in	0.1875	2 5/16 in	1NPC7	1NPA3
7/32 in	0.2188	2 1/2 in	1NPC8	1NPA4
1/4 in	0.2500	2 3/4 in	1NPC9	1NPA5
9/32 in	0.2813	2 15/16 in	1NPD1	1NPA6
5/16 in	0.3125	3 3/16 in	1NPD2	1NPA7
11/32 in	0.3438	3 7/16 in	1NPD3	1NPA8
3/8 in	0.3750	3 5/8 in	1NPD4	1NPA9
13/32 in	0.4063	3 7/8 in	1NPD5	1NPB1
7/16 in	0.4375	4 1/16 in	1NPD6	1NPB2
15/32 in	0.4688	4 5/16 in	1NPD7	1NPB3
1/2 in	0.5000	4 1/2 in	1NPD8	1NPB4
Wire				
#50	0.0700	1 in	1NPE8	—
#41	0.0960	1 3/8 in	1NPE7	—
#40	0.0980	1 3/8 in	1NPE6	1NPC2
#30	0.1285	1 5/8 in	1NPE5	1NPC1
#29	0.1360	1 3/4 in	1NPE4	1NPB9
#27	0.1440	1 7/8 in	1NPE3	1NPB8
#21	0.1590	2 1/8 in	1NPE2	1NPB7
#20	0.1610	2 1/8 in	1NPE1	1NPB6
#10	0.1935	2 7/16 in	1NPD9	1NPB5

CLE-LINE.



Maintenance Grade Double-End HSS Drill Bits, 135°

- Split point
- Black oxide finish

Two drills in one. Split point is self-centering for quick penetration. For drilling thin metals.

Size	Decimal Equivalent	Flute Length (in.)	Overall Length (in.)	Item No.
CLE-LINE® List# 1815				
1/8"	0.1250	0.433	1.929	3BT95
9/64"	0.1406	0.551	2.047	3BT96
5/32"	0.1562	0.551	2.165	3BT97
3/16"	0.1875	0.669	2.441	3BT99
1/4"	0.2500	0.787	2.756	4BT02
#30	0.1285	0.500	1.875	4BT04
#11	0.1910	0.688	2.344	3BT98

WESTWARD



6" Length

Maintenance Grade Extra-Length HSS Drill Bits, 135°

- Split point
- Straight shank
- Black oxide finish

Use to drill holes in deep or inaccessible places that cannot be reached with regular length drills. Jobbers length flute makes drills more rigid.

Size	Decimal Equivalent	Flute Length	6 in Item No.	12 in Item No.
3/32 in	0.0625	7/8 in	5TVH8	—
1/16"	0.0625	7/8 in	—	5TVK3
1/4 in	0.0938	1 3/16 in	5TVH9	—
3/32"	0.0938	1 1/4 in	—	5TVK4
19/32 in	0.1250	1 5/8 in	5TVJ0	—
5/32"	0.1563	2 in	5TVJ1	—
5/32 in	0.1875	2 5/16 in	—	5TVK7
7/32"	0.2188	2 1/2 in	5TVJ3	—
11/64 in	0.2188	2 1/2 in	—	5TVK8
17/64 in	0.2500	2 3/4 in	5TVJ4	—
1/4"	0.2500	2 3/4 in	—	5TVK9
17/64 in	0.2813	2 15/16 in	5TVJ5	—
9/32 in	0.2813	2 15/16 in	—	5TVL0
23/64 in	0.3125	3 3/16 in	5TVJ6	—
5/16"	0.3125	3 3/16 in	—	5TVL1
11/32"	0.3438	3 7/16 in	5TVJ7	5TVL2
3/8"	0.3750	3 5/8 in	5TVJ8	5TVL3
13/32"	0.4063	3 7/8 in	5TVJ9	5TVL4
7/16"	0.4375	4 1/16 in	5TVK0	5TVL5
15/32"	0.4688	4 5/16 in	5TVK1	—
3.10 mm	0.5000	4 1/2 in	5TVK2	—
1/2"	0.5000	4 1/2 in	—	5TVL7

Chicago-Latrobe®



6" Length

Production Grade Extra-Length HSS Drill Bits, 135°

- Split point
- Straight shank
- Black oxide finish

Jobbers length flute makes drills more rigid. Ideal for drilling holes in deep or inaccessible places that cannot be reached with regular length drills.

Size	Decimal Equivalent	Flute Length	Item No.
12" Length List# 912CAT			
1/16 in	0.0625	7/8 in	4ZN93
3/32 in	0.0938	1 1/4 in	4ZN95
1/8 in	0.1250	1 5/8 in	4ZN97
5/32 in	0.1563	2 in	4ZN99
3/16 in	0.1875	2 5/16 in	4ZP02
7/32 in	0.2188	2 1/2 in	4ZP04
1/4 in	0.2500	2 3/4 in	4ZP06
9/32 in	0.2813	2 15/16 in	4ZP08
5/16 in	0.3125	3 3/16 in	4ZP10
11/32 in	0.3438	3 7/16 in	4ZP12
3/8 in	0.3750	3 5/8 in	4ZP14
13/32 in	0.4063	3 7/8 in	4ZP16
7/16 in	0.4375	4 1/16 in	4ZP18
15/32 in	0.4688	4 5/16 in	4ZP20
1/2 in	0.5000	4 1/2 in	4ZP22

Threaded Shank Drill Bits

- 135° split point
- Black oxide finish
- Additional material and sizes are available on Grainger.com®

Split point penetrates on contact and helps prevent walking. High-speed steel bits are constructed for superior strength and run-out characteristics. Cobalt steel bits have a hard surface with high lubricity.



1" - 1¼" Length

		HIGH SPEED STEEL DRILL BIT MATERIAL FLUTE LENGTH						COBALT STEEL DRILL BIT MATERIAL FLUTE LENGTH							
		5/16 IN		9/16 IN		1 1/8 IN		5/16 IN		9/16 IN		7/8 IN		1 1/8 IN	
Drill Bit Size	Decimal Equivalent	Overall Length	Item No.	Overall Length	Item No.	Overall Length	Item No.	Overall Length	Item No.	Overall Length	Item No.	Overall Length	Item No.	Overall Length	Item No.
#1	0.228	5/8 in	52NW12	1 1/4 in	52NW11	2 1/8 in	52NW10	5/8 in	52NU40	1 1/4 in	52NU39	—	—	2 1/8 in	52NU38
#2	0.2210	5/8 in	52NW15	1 1/4 in	52NW14	2 1/8 in	52NW13	5/8 in	52NU43	1 1/4 in	52NU42	—	—	2 1/8 in	52NU41
#3	0.213	5/8 in	52NW19	1 1/4 in	52NW18	2 1/8 in	52NW17	5/8 in	52NU47	1 1/4 in	52NU46	—	—	2 1/8 in	52NU45
#4	0.209	5/8 in	52NW22	1 1/4 in	52NW21	2 1/8 in	52NW20	5/8 in	52NU50	1 1/4 in	52NU49	—	—	2 1/8 in	52NU48
#5	0.2055	5/8 in	52NW25	1 1/4 in	52NW24	2 1/8 in	52NW23	5/8 in	52NU53	1 1/4 in	52NU52	—	—	2 1/8 in	52NU51
#6	0.204	5/8 in	52NW28	1 1/4 in	52NW27	2 1/8 in	52NW26	—	—	—	—	—	—	—	—
#7	0.2010	5/8 in	52NW31	1 1/4 in	52NW30	2 1/8 in	52NW29	5/8 in	52NU57	1 1/4 in	52NU56	—	—	2 1/8 in	52NU55
#8	0.1990	5/8 in	52NW34	1 1/4 in	52NW33	2 1/8 in	52NW32	5/8 in	52NU61	1 1/4 in	52NU60	—	—	2 1/8 in	52NU59
#9	0.196	5/8 in	52NW37	1 1/4 in	52NW36	2 1/8 in	52NW35	—	—	—	—	—	—	—	—
#10	0.1935	9/16 in	52NW40	1 1/4 in	52NW39	2 1/8 in	52NW38	9/16 in	52NU65	1 1/4 in	52NU64	—	—	2 1/8 in	52NU63
#11	0.1910	9/16 in	52NW44	1 1/4 in	52NW43	2 1/8 in	52NW42	9/16 in	52NU69	1 1/4 in	52NU68	—	—	2 1/8 in	52NU67
#12	0.189	9/16 in	52NW48	1 1/4 in	52NW47	2 1/8 in	52NW46	9/16 in	52NU73	1 1/4 in	52NU72	—	—	2 1/8 in	52NU71
#13	0.1850	9/16 in	52NW52	1 1/4 in	52NW51	2 1/8 in	52NW50	9/16 in	52NU76	1 1/4 in	52NU75	—	—	2 1/8 in	52NU74
#14	0.182	9/16 in	52NW56	1 1/4 in	52NW55	2 1/8 in	52NW54	9/16 in	52NU80	1 1/4 in	52NU79	—	—	2 1/8 in	52NU78
#16	0.1770	9/16 in	52NW59	1 1/4 in	52NW58	2 1/8 in	52NW57	9/16 in	52NU83	1 1/4 in	52NU82	—	—	2 1/8 in	52NU81
#17	0.173	9/16 in	52NW62	1 1/4 in	52NW61	2 1/8 in	52NW60	9/16 in	52NU87	1 1/4 in	52NU86	—	—	2 1/8 in	52NU85
#18	0.1695	9/16 in	52NW65	1 1/4 in	52NW64	2 1/8 in	52NW63	9/16 in	52NU90	1 1/4 in	52NU89	—	—	2 1/8 in	52NU88
#19	0.1660	9/16 in	52NW68	1 1/4 in	52NW67	2 1/8 in	52NW66	9/16 in	52NU93	1 1/4 in	52NU92	—	—	2 1/8 in	52NU91
#20	0.1610	9/16 in	52NW71	1 1/4 in	52NW70	2 1/8 in	52NW69	9/16 in	52NU96	1 1/4 in	52NU95	—	—	2 1/8 in	52NU94
#21	0.1590	9/16 in	52NW75	1 1/4 in	52NW74	2 1/8 in	52NW73	9/16 in	52NV01	1 1/4 in	52NU99	—	—	2 1/8 in	52NU98
#22	0.157	9/16 in	52NW79	1 1/4 in	52NW78	2 1/8 in	52NW77	9/16 in	52NV05	1 1/4 in	52NV04	—	—	2 1/8 in	52NV03
#23	0.154	9/16 in	52NW83	1 1/4 in	52NW82	2 1/8 in	52NW81	9/16 in	52NV08	1 1/4 in	52NV07	—	—	2 1/8 in	52NV06
#24	0.152	9/16 in	52NW86	1 1/4 in	52NW85	2 1/8 in	52NW84	9/16 in	52NV11	1 1/4 in	52NV10	—	—	2 1/8 in	52NV09
#25	0.1495	9/16 in	52NW89	1 1/4 in	52NW88	2 1/8 in	52NW87	9/16 in	52NV14	1 1/4 in	52NV13	—	—	2 1/8 in	52NV12
#26	0.147	9/16 in	52NW92	1 1/4 in	52NW91	2 1/8 in	52NW90	9/16 in	52NV17	1 1/4 in	52NV16	—	—	2 1/8 in	52NV15
#27	0.1440	9/16 in	52NW95	1 1/4 in	52NW94	2 1/8 in	52NW93	9/16 in	52NV20	1 1/4 in	52NV19	—	—	2 1/8 in	52NV18
#28	0.1405	9/16 in	52NW99	1 1/4 in	52NW98	2 1/8 in	52NW97	9/16 in	52NV24	1 1/4 in	52NV23	—	—	2 1/8 in	52NV22
#29	0.136	9/16 in	52NX03	1 1/4 in	52NX02	2 1/8 in	52NX01	9/16 in	52NV27	1 1/4 in	52NV26	—	—	2 1/8 in	52NV25
#30	0.1285	9/16 in	52NX07	1 1/4 in	52NX06	2 1/8 in	52NX05	9/16 in	52NV30	1 1/4 in	52NV29	—	—	2 1/8 in	52NV28
#31	0.12	1/2 in	52NX11	1 in	52NX10	—	—	1/2 in	52NV34	1 in	52NV33	2 1/8 in	52NV32	—	—
#32	0.116	1/2 in	52NX14	1 in	52NX13	—	—	1/2 in	52NV37	1 in	52NV36	2 1/8 in	52NV35	—	—
#33	0.113	1/2 in	52NX18	1 in	52NX17	—	—	—	—	—	—	—	—	—	—
#34	0.111	1/2 in	52NX22	1 in	52NX21	—	—	—	—	—	—	—	—	—	—
#35	0.1100	1/2 in	52NX25	1 in	52NX24	—	—	1/2 in	52NV40	1 in	52NV39	—	—	—	—
#36	0.1065	1/2 in	52NX28	1 in	52NX27	—	—	—	—	—	—	—	—	—	—
#37	0.104	1/2 in	52NX32	1 in	52NX31	—	—	—	—	—	—	—	—	—	—
#38	0.1015	1/2 in	52NX36	1 in	52NX35	—	—	—	—	—	—	—	—	—	—
#39	0.0995	1/2 in	52NX39	1 in	52NX38	—	—	—	—	—	—	—	—	—	—
#40	0.0980	1/2 in	52NX42	1 in	52NX41	—	—	1/2 in	52NV43	1 in	52NV42	—	—	—	—
1/4 in	0.2500	9/16 in	52NX73	1 1/4 in	52NX72	2 1/8 in	52NX71	9/16 in	52NV81	1 1/4 in	52NV80	—	—	2 1/8 in	52NV79
1/8 in	0.1250	9/16 in	52NX52	1 1/4 in	52NX51	—	—	9/16 in	52NV54	1 1/4 in	52NV53	2 1/8 in	52NV52	—	—
3/16 in	0.1875	9/16 in	52NX64	1 1/4 in	52NX63	2 1/8 in	52NX62	9/16 in	52NV68	1 1/4 in	52NV67	—	—	2 1/8 in	52NV66
3/32 in	0.0937	1/2 in	52NX46	—	—	—	—	1/2 in	52NV47	1 in	52NV46	2 1/8 in	52NV45	—	—
5/32 in	0.1562	9/16 in	52NX58	1 1/4 in	52NX57	2 1/8 in	52NX56	9/16 in	52NV61	1 1/4 in	52NV60	—	—	2 1/8 in	52NV59
7/32 in	0.2187	9/16 in	52NX70	1 1/4 in	52NX69	2 1/8 in	52NX68	9/16 in	52NV75	1 1/4 in	52NV74	—	—	2 1/8 in	52NV73
1/64 in	0.1094	1/2 in	52NX49	1 in	52NX48	—	—	1/2 in	52NV51	1 in	52NV50	—	—	—	—
9/64 in	0.1406	9/16 in	52NX55	1 1/4 in	52NX54	2 1/8 in	52NX53	9/16 in	52NV58	1 1/4 in	52NV57	—	—	2 1/8 in	52NV56
11/64 in	0.1719	9/16 in	52NX61	1 1/4 in	52NX60	2 1/8 in	52NX59	9/16 in	52NV65	1 1/4 in	52NV64	—	—	2 1/8 in	52NV63
13/64 in	0.2031	5/8 in	52NX67	1 1/4 in	52NX66	2 1/8 in	52NX65	5/8 in	52NV72	1 1/4 in	52NV71	—	—	2 1/8 in	52NV70
15/64 in	0.2344	—	—	—	—	—	—	5/8 in	52NV78	1 1/4 in	52NV77	—	—	2 1/8 in	52NV76
A	0.2340	9/16 in	52NX85	1 1/4 in	52NX84	2 1/8 in	52NX83	9/16 in	52NV91	1 1/4 in	52NV90	—	—	2 1/8 in	52NV89
B	0.2380	9/16 in	52NX88	1 1/4 in	52NX87	2 1/8 in	52NX86	9/16 in	52NV94	1 1/4 in	52NV93	—	—	2 1/8 in	52NV92
C	0.2420	9/16 in	52NX91	1 1/4 in	52NX90	2 1/8 in	52NX89	9/16 in	52NV97	1 1/4 in	52NV96	—	—	2 1/8 in	52NV95
D	0.2460	9/16 in	52NX94	1 1/4 in	52NX93	2 1/8 in	52NX92	9/16 in	52NW01	1 1/4 in	52NV99	—	—	2 1/8 in	52NV98
F	0.2570	9/16 in	52NX98	1 1/4 in	52NX97	2 1/8 in	52NX96	9/16 in	52NW05	1 1/4 in	52NW04	—	—	2 1/8 in	52NW03

Drill Bit Blanks

MONSTER



- Ground finish
- Carbide material
- Dia. tolerance: +0.0000/-0.0005"
- Additional material and sizes are available on Grainger.com®

These solid carbide drill bit blanks come in standard sizes expressed in fractional inches, which are the most common trade size used for drill bits. They are harder than cobalt steel and high-speed steel drill bit blanks. They provide good wear resistance when drilling into the toughest materials. Machined to create custom drill bits with precise dimensions to suit specific applications. Typically used to check size of a drilled hole or to create gauges, drifts, punches, rollers, locating pins, spindles, or knockout pins.

Dia.	Decimal Equivalent	L	Item No.
1/32"	0.0312	1½"	402Y50
1/32"	0.0312	12"	403C19
3/64"	0.0469	1½"	402Y52
3/64"	0.0469	12"	403C21
1/16"	0.0625	1½"	402Y54
1/16"	0.0625	12"	403C23
5/64"	0.0781	1½"	402Y56
5/64"	0.0781	12"	403C25
3/32"	0.0938	1½"	402Y58
3/32"	0.0938	3"	402Y61
7/64"	0.1094	12"	403C29
1/8"	0.1250	¾"	403A30
1/8"	0.1250	1"	402Y69
9/64"	0.1406	12"	403C35
5/32"	0.1562	1½"	402Y89
5/32"	0.1562	12"	403C37
11/64"	0.1719	12"	403C41
3/16"	0.1875	1"	403A37
3/16"	0.1875	12"	403C43
13/64"	0.2031	12"	403C47
15/64"	0.2344	12"	403C51
1/4"	0.2500	1"	403A42
1/4"	0.2500	12"	403C55
17/64"	0.2656	12"	403C57
9/32"	0.2812	12"	403C59
19/64"	0.2969	12"	403C61
5/16"	0.3125	1¼"	403A46
5/16"	0.3125	12"	403C63
21/64"	0.3281	12"	403C67
11/32"	0.3438	12"	403C69
23/64"	0.3594	12"	403C73
3/8"	0.3750	1½"	403A47
3/8"	0.3750	6"	402Z48
25/64"	0.3906	12"	403C77
27/64"	0.4219	12"	403C83
7/16"	0.4375	2½"	402Z49
7/16"	0.4375	6"	402Z59
29/64"	0.4531	12"	403C88
15/32"	0.4688	12"	403C90
31/64"	0.4844	12"	403C94
1/2"	0.5000	1½"	403A49
1/2"	0.5000	12"	403C96
17/32"	0.5312	12"	403D01
9/16"	0.5625	3½"	402Z78
9/16"	0.5625	12"	403D03
5/8"	0.6250	3"	402Z80
5/8"	0.6250	12"	403D05
3/4"	0.7500	7"	403A06
3/4"	0.7500	12"	403D13
13/16"	0.8125	12"	403D15
7/8"	0.8750	4"	403A13
7/8"	0.8750	12"	403D17
1"	1.0000	4"	403A15
1"	1.0000	12"	403D22

MONSTER



Series 777 Tool Blanks

- Unfinished
- Carbide material
- Parallelism and flatness tolerances: ±0.020"
- Minimum grind stock: Thickness: +0.008"; Width: +0.012"; Length: +0.008"
- Additional material and sizes are available on Grainger.com®

Commonly used as wear parts, tools, grinder rests, and appliance parts, these solid C-2 grade medium-grain carbide strips contain 6% to 8% cobalt.

Thickness	W	L	Item No.
1/32"	1/16"	1"	403F67
1/32"	1/16"	1½"	403F68
3/64"	3/32"	13/16"	403F70
3/64"	3/32"	1"	403F69
1/16"	1"	6"	403G22
5/64"	1/8"	1⅛"	403F72
3/32"	3/8"	6"	403G29
3/32"	5/8"	8"	403G38
1/8"	1/4"	1"	403F89
1/8"	1/4"	2¼"	403F92
1/8"	5/8"	6"	403G57
1/8"	3/4"	12"	403G60
1/8"	1¼"	6"	403H16
5/32"	3/8"	6"	403H12
5/32"	1½"	6"	403H03
3/16"	5/16"	12"	403G73
3/16"	3/4"	2"	403F87
3/16"	1"	6"	403G70
1/4"	1/4"	12"	403G99
1/4"	1/2"	2"	403G81
1/4"	5/8"	6"	403G83
5/16"	5/16"	12"	403G98
1/2"	3/4"	12"	403G97

Scan. Order. Done.
Details on page A1.



Sharpener
No. 6YB32



Sharpening
Attachment
No. 3ZH44

Drill Bit Sharpeners

Drill Doctor
The Drill Bit Sharpener

GENERAL

Sharpeners—Easy chuck alignment system for quick, precise sharpening. 110V, 1.75 amp motor produces 20,000 rpm. Long-lasting diamond wheel sharpens standard twist, HSS, TiN, cobalt, carbide, and masonry drills in under 60 sec. Nos. 6YB32 and 6YB33 can be used with split point bits. No. 6YB32 includes carrying case.

Sharpening Attachment—Locks into 5 standard angles (88°, 68°, 59°, 49°, and 41°) to quickly resharpen drill bits. Use with ANSI, OSHA, UL Listed standard electric bench or surface grinders.

Features	Brand	Mfr. Model	Item No.
Sharpeners			
On-Chuck Alignment, Permanent Magnet Motor, V-Block Chuck Jaws Eliminate Jaw Twisting on Small Bits	Drill Doctor	DD350X	**6YB34**
Cast Aluminum Point Angle Shuttle, Jaw Guides Eliminate Jaw Twisting on Small Bits, Longer Chuck Jaws Hold Bits More Precisely, Permanent Magnet Motor, Push-to-Stop Drill Point Splitting Port	Drill Doctor	DD500X	**6YB33**
Adjustable Material Take-Off, Cast Aluminum Point Angle Shuttle, Jaw Guides Eliminate Jaw Twisting on Small Bits, Longer Chuck Jaws Hold Bits More Precisely, Permanent Magnet Motor, Push-to-Stop Drill Point Splitting Port	Drill Doctor	DD750X	**6YB32**
Sharpening Attachment (For Use With Bench/Surface Grinders)			
Automatically Adjusts to the Correct Clearance Angle, For Standard Angles 88°, 68°, 59°, 49°, 41°, Works with ⅛ in to ¾ in , #1 to #30, A to Z, 3 to 19mm Drill Bits	General Tools	825	**3ZH44**

Type	For Use With Mfr. Model Number	Brand	Mfr. Model	Item No.
Replacement Grinding Wheels				
Standard, Diamond 180 Grit	400, 500, 750	Drill Doctor	SA01326GA	**2EJX5**
	DD750X, DD500X	Drill Doctor	DA31320GF	**2EJX1**
Coarse, Diamond 100 Grit	300, 400, 500, 750	Drill Doctor	SA01328GA	**2EJX6**
	DD750X, DD500X	Drill Doctor	DA31325GF	**2EJX2**
Replacement Chucks				
Chuck	DD750X, DD500X	Drill Doctor	DA70100PF	**2EJX3**
	—	Drill Doctor	DA02105PF	**2EJX4**



Drill Sharpener V-390
No. 6MVH6



Drill Sharpener XT-3000
No. 6MVH7

Drill Bit Sharpeners

DAREX

For standard conic and split point styles. Drill Sharpener V-390 No. 6MVH6 is for light-duty, intermittent jobs. Drill Sharpener XT-3000 No. 6MVH7 is an advanced manual sharpener for use on a variety of drill sizes and styles. Drill Sharpener with Auto Sharpener XT-3000 No. 6MVK0 performs the same functions as No. 6MVH7, but automates the drill sharpening process for higher volume requirements.

Table Description	Grinding Wheel Dia. (in.)	Drill Dia./Cap.	Angles Sharpened	Mfr. Model	Item No.
Drill Sharpener V-390	3	⅛–¾"	118° to 140°	JVT390	**6MVH6**
Drill Sharpener XT-3000	6	⅛–1³⁄₁₆"	118° to 150°	LEX900	**6MVH7**
Drill Sharpener w/Auto Sharpener XT-3000	6	⅛ - 1³⁄₁₆	118° to 150°	LEX900A	**6MVK0**

Description	Mfr. Model	Item No.
For Use With No. 6MVH6		
Cubic Boron Nitride Grinding Wheel, 3" Dia., 180 Grit	PP11125GF	**6MVK3**
Diamond Grinding Wheel, 3" Dia., 180 Grit	PP11115GF	**6MVK4**
For Use With Nos. 6MVH7/6MVK0		
Cubic Boron Nitride Grinding Wheel, 6" Dia., 100 Grit	PP16060GF	**6MVK7**
Cubic Boron Nitride Grinding Wheel, 6" Dia., 180 Grit	PP16050GF	**6MVK5**
Diamond Grinding Wheel, 6" Dia., 180 Grit	PP16052GF	**6MVK6**
Mfr. No. XT-3000		
Drill Bit/End Mill Sharpener Part, 3-12mm XT	LEX400	**6MVJ7**
Drill Bit/End Mill Sharpener Part, 12-21mm XT	LEX450	**6MVJ8**
Drill Bit/End Mill Sharpener Part, 3-21mm XT	LEX500	**6MVJ9**
Mfr. No. XT-3000, XT-3000 Auto		
Drill Bit/End Mill Sharpener Part, XT-3000	LEX300	**6MVJ4**
Mfr. No. XT-3000, XT-3000 Auto, Must Be Used with X-Y Table Mfr. No. LEX100		
Drill Bit/End Mill Sharpener Part, For Drill Bits and End Mills	LEX150	**6MVJ1** *
Drill Bit/End Mill Sharpener Part, For Drill Sharpeners	LEX200	**6MVJ2** *
Drill Bit/End Mill Sharpener Part, For LEX100	LEX250	**6MVJ3** *
Mfr. No. XT-3000, XT-3000 Auto, Required with Attachments: Mfr. No. LEX150, LEX200, LEX250		
Drill Bit/End Mill Sharpener Part	LEX100	**6MVJ0**

**** Requires LEX100.***

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





Jig Bore Style, Right Hand, Single End
No. 33UN59



Bell Tip, Right Hand, Double End
No. 33UM96



5-Pc. Set, Plain Tip, Right Hand, Double End
No. 1DBT6



Fast-Cut 1-Flute
No. 21MK99



7-Pc. Set
No. 21ML39

Center Drills

Center drills consist of a pilot drill and a countersink and are used to create holes at the center of a piece of stock so it can be turned between centers on a lathe in metalworking tasks. Drills with a **plain tip** are the standard choice for creating center holes. Drills with a **radius tip** have a tapered flute that allows them to create more accurate holes than other styles of center drills. Drills with a **bell tip** have a 120° chamfer on their tip that bevels the outer edge of the center hole to strengthen it and protect it from damage in applications where the piece of stock will go through multiple machining passes. **Jig-bore** drills have a flat on the shank for securing them to a jig borer machine with a set screw.

High-Speed Steel—Provides good wear resistance in a wide range of machining applications.

Cobalt Steel—Provides good wear resistance when machining hard materials at high speeds and is harder than high-speed steel.

Powdered Metal—Stronger than high-speed steel and cobalt steel.

Solid Carbide—Provides excellent wear resistance when machining the toughest materials, such as stainless steel.

Drill Size	Countersink Angle	Body Dia.	Drill Point Dia.	Overall Length	Bright (Uncoated) Item No.	TiN Item No.
Radius Tip, Right Hand, Double End						
High-Speed Steel						
#2	60°	3/16"	5/64"	1 7/8"	33UM22	—
#3	60°	1/4"	7/64"	2"	33UL56	—
Plain Tip, Right Hand, Double End						
Carbide						
#0	60°	1/8"	1/32"	1 1/2"	1DBJ5	—
#1	60°	1/8"	3/64"	1 1/2"	1DBJ6	—
#2	60°	3/16"	5/64"	2"	1DBJ7	—
#3	60°	1/4"	7/64"	2"	1DBJ8	—
#4	60°	5/16"	1/8"	2 1/8"	1DBJ9	—
#4-0	60°	1/8"	0.0150"	1 1/2"	33UN80	—
#5	60°	7/16"	3/16"	2 3/4"	1DBK1	—
#6	60°	1/2"	7/32"	3"	1DBK2	—
#7	60°	5/8"	1/4"	3 3/4"	1DBK3	—
#8	82°	3/4"	5/16"	4"	33UP11	—
Cobalt						
#0	60°	1/8"	1/32"	1 1/4"	1DBF7	—
#1	60°	1/8"	3/64"	1 1/4"	1DBF8	—
#2	60°	3/16"	5/64"	1 7/8"	1DBF9	—
#2-0	60°	1/8"	0.0250"	1 1/4"	1DBF6	—
#3	60°	1/4"	7/64"	2"	1DBG1	—
#4	60°	5/16"	1/8"	2 1/8"	1DBG2	—
#4-1/2	60°	3/8"	9/64"	2 1/2"	33UN75	—
#5	60°	7/16"	3/16"	2 3/4"	1DBG3	—
#6	60°	1/2"	7/32"	3"	1DBG4	—
#7	60°	5/8"	1/4"	3 1/4"	1DBG5	—
#10	60°	1"	3/8"	3 3/4"	1DBG8	—
High-Speed Steel						
#0	60°	1/8"	1/32"	1 1/4"	3P277	1DBE4
#0	82°	1/8"	1/32"	1 1/4"	2RTW2	—
#0	90°	1/8"	1/32"	1 1/4"	1DBH1	—
#1	60°	1/8"	3/64"	1 1/4"	3P279	1DBE5
#1	60°	1/8"	3/64"	3"	1DBK5	—
#1	60°	1/8"	3/64"	4"	1DBK6	—
#1	60°	1/8"	3/64"	5"	1DBK7	—
#1	60°	1/8"	3/64"	6"	1DBK8	—
#1	82°	1/8"	3/64"	1 1/4"	2RTW3	—
#1	90°	1/8"	3/64"	1 1/4"	1DBH2	2RTX7
#2	60°	3/16"	5/64"	1 7/8"	3P281	1DBE6
#2	60°	3/16"	5/64"	3"	1DBK9	—
#2	60°	3/16"	5/64"	4"	1DBL1	—
#2	60°	3/16"	5/64"	5"	1DBL2	—
#2	60°	3/16"	5/64"	6"	1DBL3	—
#2	82°	3/16"	5/64"	1 7/8"	2RTW4	4FVX3
#2	90°	3/16"	5/64"	1 7/8"	1DBH3	2RTX8
#2-0	60°	1/8"	0.0200"	1 1/4"	3P275	—
#2-0	60°	1/8"	0.0250"	1 1/4"	—	1DBE3
#3	60°	1/4"	7/64"	2"	3P283	1DBE7
#3	60°	1/4"	7/64"	3"	1DBL4	—
#3	60°	1/4"	7/64"	4"	1DBL5	—
#3	60°	1/4"	7/64"	5"	1DBL6	—
#3	60°	1/4"	7/64"	6"	1DBL7	—
#3	82°	1/4"	7/64"	2"	2RTW5	—
#3	90°	1/4"	7/64"	2"	1DBH4	2RTX9
#4	60°	5/16"	1/8"	2 1/8"	3P285	1DBE8
#4	60°	5/16"	1/8"	3"	1DBL8	—
#4	60°	5/16"	1/8"	4"	1DBL9	—
#4	60°	5/16"	1/8"	5"	1DBN1	—
#4	60°	5/16"	1/8"	6"	1DBN2	—
#4	82°	5/16"	1/8"	2 1/8"	2RTW6	4FVX5
#4	90°	5/16"	1/8"	2 1/8"	1DBH5	2RTY1
#4-1/2	60°	3/8"	9/64"	2 1/2"	33UN71	33UN72
#4-1/2	60°	3/8"	9/64"	4"	1DBN3	—
#4-1/2	60°	3/8"	9/64"	5"	1DBN4	—
#4-1/2	60°	3/8"	9/64"	6"	1DBN5	—
#4-1/2	82°	3/8"	9/64"	2 1/2"	2RTW7	4FVX6
#4-1/2	90°	3/8"	3/16"	2 1/2"	1DBH6	—
#5	60°	7/16"	3/16"	2 3/4"	3P287	1DBE9
#5	60°	7/16"	3/16"	4"	1DBN6	—
#5	60°	7/16"	3/16"	5"	1DBN7	—
#5	60°	7/16"	3/16"	6"	1DBN8	—
#5	82°	7/16"	3/16"	2 3/4"	2RTW8	4FVX7
#5	90°	7/16"	7/32"	2 3/4"	1DBH7	—
#6	60°	1/2"	7/32"	3"	3P289	1DBF1
#6	60°	1/2"	7/32"	4"	1DBN9	—
#6	60°	1/2"	7/32"	5"	1DBP1	—
#6	60°	1/2"	7/32"	6"	1DBP2	—
#6	82°	1/2"	7/32"	3"	2RTW9	4FVX8
#6	90°	1/2"	7/32"	3"	—	2RTY4
#6	90°	1/2"	1/4"	3"	1DBH8	—
#7	60°	5/8"	1/4"	3 1/4"	3P291	1DBF2
#7	60°	5/8"	1/4"	6"	1DBP3	—
#7	82°	5/8"	1/4"	3 1/4"	2RTX1	—
#7	90°	5/8"	1/4"	3 1/4"	1DBH9	—
#8	60°	3/4"	5/16"	3 1/2"	3P293	1DBF3
#8	82°	3/4"	5/16"	3 1/2"	2RTX2	—
#8	90°	3/4"	11/32"	3 1/2"	1DBJ1	—
#9	60°	7/8"	11/32"	3 5/8"	3P295	1DBF4
#9	82°	7/8"	11/32"	3 5/8"	2RTX3	—
#10	60°	1"	3/8"	3 3/4"	3P297	1DBF5
#10	82°	1"	3/8"	3 3/4"	2RTX4	—
Powdered Metal						
#4	60°	5/16"	1/8"	2 1/8"	33UM36	—
#5	60°	7/16"	3/16"	2 3/4"	33UM42	—
#6	60°	1/2"	7/32"	3"	33UM48	—
Plain Tip, Left Hand, Double End						
High-Speed Steel						
#2	60°	3/16"	5/64"	1 7/8"	33UL55	—
#3	60°	1/4"	7/64"	2"	33UL57	—
#4	60°	5/16"	1/8"	2 1/8"	33UL59	—
#6	60°	1/2"	7/32"	3"	33UM53	—
Jig-Bore Style, Right Hand, Single End						
High-Speed Steel						
1/4"	60°	1/2"	1/4"	3 1/2"	33UN59	—
Bell Tip, Right Hand, Double End						
Carbide						
#15	60°	7/16"	5/32"	2 3/4"	33UN96	—
Cobalt						
#12	60°	3/16"	1/16"	1 7/8"	33UL63	—
High-Speed Steel						
#13	60°	1/4"	3/32"	2"	33UM95	33UM96
#17	60°	5/8"	7/32"	3 1/4"	33UN31	33UN32

Sizes Incl.	Bright (Uncoated) Item No.	TiN Item No.
5-Pc. Sets, Plain Tip, Right Hand, Double End		
High-Speed Steel		
#1, #2, #3, #4, #5	1DBT6	4FUA2
Cobalt		
#1, #2, #3, #4, #5	4FUA3	—
Carbide		
#1, #2, #3, #4, #5	4FUA4	—

WESTWARD

High-Speed Steel Countersinks

- 82° countersink angle
- Bright finish

Countersinks expand the top of an existing hole in a workpiece to allow countersinking screws to install flush with the surface of the workpiece. This helps prevent the workpiece material from swelling when a screw is inserted in the hole and tightened down.

Fast-Cut 1-Flute—Leaves clean edges on holes and has a high, positive rake that reduces vibration.

3-Flute—Typically provides better chip clearance and performs better when machining stringy materials than countersinks with more flutes.

6-Flute—Provides fast material removal and leaves a smooth finish. Removes more material with each revolution and typically provides more wear resistance than countersinks with fewer flutes.

Body Dia.	Shank Dia.	Shank Length	Overall Length	Item No.
Fast Cut 1-Flute				
1/4"	1/4"	—	1 1/2"	21ML02
3/8"	1/4"	7/8"	1 3/4"	21MK98
1/2"	1/4"	1"	2"	21MK97
5/8"	3/8"	1"	2 1/4"	21ML01
3/4"	1/2"	1 1/4"	2 5/8"	21MK99
1"	1/2"	1 1/4"	2 3/4"	21ML03
1 1/4"	1/2"	1 1/4"	2 3/4"	21ML04
3-Flute				
1/4"	1/4"	—	1 1/2"	21ML12
3/8"	1/4"	7/8"	1 3/4"	21ML08
1/2"	1/4"	1"	2"	21ML07
5/8"	3/8"	1"	2 1/4"	21ML10
3/4"	1/2"	1 1/4"	2 5/8"	21ML09
1"	1/2"	1 1/4"	2 3/4"	21ML11
6-Flute				
1/4"	1/4"	—	1 1/2"	21ML19
1/2"	1/4"	1"	2"	21ML27
	3/8"	1"	2"	21ML34
5/8"	1/4"	1"	2 1/4"	21ML33
	3/8"	1"	2 1/4"	21ML30
3/4"	1/2"	1 1/4"	2 5/8"	21ML28
7/8"	1/2"	1 1/4"	2 3/4"	21ML36
1"	1/2"	1 1/4"	2 3/4"	21ML31
1 1/4"	1/2"	1 1/4"	2 3/4"	21ML38

No. of Pieces	No. of Flutes	Sizes Included	Item No.
Countersink Sets			
5	1	1/4", 3/8", 1/2", 3/4", 1"	21ML06
5	3	1/4", 3/8", 1/2", 3/4", 1"	21ML13
7	6	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	21ML26
7	6	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	21ML39

Additional countersink and reamer sizes, types, and brands are available on Grainger.com®.

Countersink Material Information

High-Speed Steel—Provides good wear resistance in a wide range of countersinking applications.

Cobalt Steel—Provides good wear resistance when machining hard materials at high speeds and is harder than high-speed steel.

Bright (Uncoated)—Unaffected when the countersink's cutting edges are resharpened.

TiN—Protects against wear, increases chip flow in softer materials, and allows for higher speeds than bright (uncoated) finish.

TiAlN—Protects against wear in dry, high-speed machining tasks and can withstand high temperatures.

Bright (Uncoated)
No. 1DBP5





5-Pc. TiN
No. 4FWC8

KEO

Anti-vibration Cobalt Steel Zero-Flute Countersinks

Zero-flute countersinks minimize vibration and chatter during use and prevent chips from sticking to the tool. They leave smooth, clean edges as they expand the top of a hole in countersinking tasks. Commonly used for installing aluminum frame storefronts, glass and window design, and architectural metalworking applications.

Body Dia.	Shank Dia.	Shank Length	Overall Length	Bright (Uncoated) 60° Item No.	Bright (Uncoated) 82° Item No.	TiN 60° Item No.	TiN 82° Item No.	TiN 90° Item No.	TiN 100° Item No.
5/16"	1/4"	—	1 5/8"	—	—	—	—	—	33UT95
	1/4"	1 1/4"	1 7/8"	1DBP5	4FWA2	4FVY4	4FWC1	4FVZ3	—
3/8"	1/4"	—	1 3/4"	—	—	—	—	—	33UT97
	1/4"	1 1/8"	1 7/8"	1DBP6	—	—	—	—	—
	1/4"	1 1/4"	1 7/8"	—	4FWA3	4FVY5	4FWC2	4FVZ4	—
1/2"	5/16"	—	1 3/4"	—	—	—	—	—	33UT98
	5/16"	1 1/8"	2"	1DBP7	—	—	—	—	—
	5/16"	1 1/4"	2"	—	4FWA4	4FVY6	4FWC3	4FVZ5	—
5/8"	3/8"	—	2 1/8"	—	—	—	—	—	33UU01
	3/8"	1 1/4"	2 1/2"	—	4FWA5	4FVY7	4FWC4	4FVZ6	—
	3/8"	1 3/8"	2 1/2"	1DBP8	—	—	—	—	—
3/4"	3/4"	—	2 3/8"	—	—	—	—	—	33UU03
	3/8"	1 1/4"	2 3/4"	—	4FWA6	4FVY8	4FWC5	4FVZ7	—
	3/8"	1 3/8"	2 3/4"	1DBP9	—	—	—	—	—
1"	3/8"	—	2 3/8"	—	—	—	—	—	33UU05
	3/8"	1 1/4"	3"	—	4FWA7	4FVY9	4FWC6	4FVZ8	—
1 1/4"	1/2"	—	3 1/8"	—	—	—	—	—	33UU07
	1/2"	1 1/4"	3 1/2"	—	4FWA8	4FVZ1	4FWC7	4FVZ9	—
5-Pc. Countersink Sets									
5/16", 3/8", 1/2", 3/4", 1"				1DBR3	4FWA9	4FVZ2	4FWC8	4FWA1	—

High Speed Steel
Uncoated
No. 3P419



5-Pc. High Speed Steel
Uncoated
No. 1DBU4

KEO

Fast-Cut 1-Flute Countersinks

Single-flute countersinks can be used at high speeds. They have a high, positive rake that reduces vibration during use, and they leave clean edges as they expand the top of a hole in countersinking applications.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.	COBALT, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.
1/4"	1/4"	—	1 1/2"	1DBW9	3P423	3P425	4FUA7	4FUF4	3YRH4	3YRL1	3ZTU9	3ZTX6	3ZUD9
3/8"	1/4"	7/8"	1 3/4"	1DBX1	3P434	3P439	4FUA8	4FUF5	3YRH5	3ZTR4	3ZTV1	3ZTX7	3ZUE1
1/2"	1/4"	1"	2"	1DBX2	3P419	3P421	4FUA9	4FUF6	3YRH6	3ZTR5	3ZTV2	3ZTX8	3ZUE2
5/8"	3/8"	1"	2 1/4"	1DBX3	3P441	3P446	4FUD1	4FUF7	3YRH7	3ZTR6	3ZTV3	3ZTX9	3ZUE3
3/4"	1/2"	1 1/4"	2 5/8"	1DBX4	3P427	3P429	4FUD2	4FUF8	3YRH8	3ZTR7	3ZTV4	3ZTY1	3ZUE4
1"	1/2"	1 1/4"	2 3/4"	1DBX5	3P415	3P417	4FUD3	4FUF9	3YRH9	3ZTR8	3ZTV5	3ZTY2	3ZUE5
1 1/4"	1/2"	1 1/4"	2 3/4"	—	4FWF8	4FWG3	4FUD4	4FUH1	—	3ZTR9	3ZTV6	3ZTY3	3ZUE6
1 1/2"	3/4"	1 1/4"	2 7/8"	—	4FWG4	4FWF9	4FUD5	4FUH2	—	3ZTT1	3ZTV7	3ZTY4	3ZUE7
5-Pc. Countersink Sets													
1/4", 3/8", 1/2", 3/4", 1"				1DBU4	1DBU5	1DBU6	4FVD3	4FVD4	3ZUG4	3ZUG5	3ZUG6	3ZUG7	3ZUG9

High-Speed Steel,
Bright (Uncoated)
No. 1DBX6



5-Pc. High Speed Steel
Uncoated
No. 1DBT7

KEO

General Purpose 3-Flute Countersinks

Three-flute countersinks typically provide better chip clearance and perform better when machining stringy materials than countersinks with more flutes. These countersinks are compatible with a range of materials and are the most common choice for expanding the top of a hole in countersinking tasks.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.	COBALT, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.
1/4"	1/4"	—	1 1/2"	1DBX6	3P390	3P392	4FUJ8	4FUP1	3YPH2	3YPK4	3YPN6	3YPR8	3YPX3
3/8"	1/4"	7/8"	1 3/4"	1DBX7	3P399	3P401	4FUJ9	4FUP2	3YPH3	3YPK5	3YPN7	3YPR9	3YPX4
1/2"	1/4"	1"	2"	1DBX8	3P386	3P388	4FUL1	4FUP3	3YPH4	3YPK6	3YPN8	3YPT1	3YPX5
5/8"	3/8"	1"	2 1/4"	1DBX9	3P403	3P405	4FUL2	4FUP4	3YPH5	3YPK7	3YPN9	3YPT2	3YPX6
3/4"	1/2"	1 1/4"	2 5/8"	1DBY1	3P395	3P397	4FUL3	4FUP5	3YPH6	3YPK8	3YPP1	3YPT3	3YPX7
1"	1/2"	1 1/4"	2 3/4"	4FWG5	3P407	3P411	4FUL4	4FUP6	3YPH7	3YPK9	3YPP2	3YPT4	3YPX8
1 1/4"	1/2"	1 1/4"	2 3/4"	—	4FWG8	4FWH1	4FUL5	4FUP7	—	3YPL1	3YPP3	3YPT5	3YPX9
1 1/2"	3/4"	1 1/4"	2 7/8"	—	4FWG9	4FWH2	4FUL6	4FUP8	—	3YPL2	3YPP4	3YPT6	3YPY1
5-Pc. Countersink Sets													
1/4", 3/8", 1/2", 3/4", 1"				1DBT7	1DBT8	1DBT9	4FVD5	4FVU8	3YRG5	3YRG6	3YRG7	3YRG8	3YRH1

High-Speed Steel,
Bright (Uncoated)
No. 1DBY7



KEO

Smooth-Finish 6-Flute Countersinks

Six-flute countersinks provide fast material removal and leave a smooth finish as they expand the top of a hole in countersinking tasks. They remove more material with each revolution and typically provide more wear resistance than countersinks with fewer flutes.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.	COBALT, BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	120° Item No.
1/4"	1/4"	—	1 1/2"	1DBY2	1DBY8	1DBZ5	4FUT5	4FUY5	3ZUH3	3ZUN3	3ZWY2	3ZXE2	3ZXP2
5/16"	1/4"	7/8"	1 3/4"	4FWH5	4FWJ4	4FWK3	4FUT6	4FUY6	3ZUH4	3ZUN4	3ZWY5	—	3ZXP3
3/8"	1/4"	7/8"	1 3/4"	1DBY3	1DBY9	1DBZ6	4FUT7	4FUY7	3ZUH5	3ZUN5	3ZWY7	3ZXE4	3ZXP4
1/2"	1/4"	1"	2"	1DBY4	1DBZ1	1DBZ7	4FUT8	4FUY8	3ZUH6	3ZUN6	3ZWY9	3ZXE5	3ZXP5
1/2"	3/8"	1"	2"	4FWH6	4FWJ5	4FWK4	4FUT9	4FUY9	3ZUH7	3ZUN7	3ZWZ2	3ZXE6	3ZXP6
5/8"	1/4"	1"	2 1/4"	1DBY5	1DBZ2	1DBZ8	4FUU1	4FUZ1	3ZUH8	3ZUN8	3ZWZ4	3ZXE7	3ZXP7
5/8"	3/8"	1"	2 1/4"	4FWH7	4FWJ6	4FWK5	4FUU2	4FUZ2	3ZUH9	3ZUN9	3ZWZ6	3ZXE8	3ZXP8
3/4"	1/2"	1 1/4"	2 5/8"	1DBY6	1DBZ3	1DBZ9	4FUU3	4FUZ3	3ZUJ1	3ZUP1	3ZWZ8	3ZXE9	3ZXP9
7/8"	1/2"	1 1/4"	2 3/4"	4FWH8	4FWJ7	4FWK6	4FUU4	4FUZ4	3ZUJ2	3ZUP2	3ZXA1	3ZXF1	3ZXR1
1"	1/2"	1 1/4"	2 3/4"	1DBY7	1DBZ4	1MBY7	4FUU5	4FUZ5	3ZUJ3	3ZUP3	3ZXA2	3ZXF2	3ZXR2
1 1/4"	1/2"	1 1/4"	2 3/4"	—	4FWJ8	4FWK7	4FUU6	4FUZ6	—	3ZUP4	3ZXA3	3ZXF3	3ZXR3
1 1/2"	3/4"	1 1/4"	2 7/8"	—	4FWJ9	4FWK8	4FUU7	4FUZ7	—	3ZUP5	3ZXA4	3ZXF4	3ZXR4
7-Pc. Countersink Sets													
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"				1DBU1	1DBU2	1DBU3	4FVD7	4FVD8	3ZXU9	3ZXV1	3ZXV2	3ZXV3	3ZXV5

Body Dia.	Shank Dia.	Shank Length	Overall Length	BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	TiALN 60° Item No.	82° Item No.	90° Item No.	100° Item No.
Fast-Cut 1-Flute											
⅛"	⅛"	—	1¼"	3ZXV6	3ZXX6	3ZXZ6	3ZYC6	3ZXW6	3ZXY6	3ZYA6	3ZYE5
3⁄16"	3⁄16"	—	1⅜"	3ZXV7	3ZXX7	3ZXZ7	3ZYC7	3ZXW7	3ZXY7	3ZYA7	3ZYE7
¼"	¼"	—	1½"	3ZXV8	3ZXX8	3ZXZ8	3ZYC9	3ZXW8	3ZXY8	3ZYA8	3ZYE9
⅜"	⅜"	⅞"	1¾"	3ZXV9	3ZXX9	3ZXZ9	3ZYD2	3ZXW9	3ZXY9	3ZYA9	3ZYF2
½"	¼"	1"	2"	—	—	3ZYA1	—	—	—	3ZYC1	—
	½"	1"	2"	3ZXW1	3ZXY1	—	3ZYD4	3ZXX1	3ZXZ1	—	3ZYF4
⅝"	⅝"	1"	2¼"	3ZXW2	3ZXY2	3ZYA2	3ZYD6	3ZXX2	3ZXZ2	3ZYC2	3ZYF6
¾"	¾"	1¼"	2⅝"	3ZXW3	3ZXY3	3ZYA3	3ZYD8	3ZXX3	3ZXZ3	3ZYC3	3ZYF7
1"	½"	1¼"	2¾"	—	—	3ZYA4	—	—	—	—	—
	1"	1¼"	2¾"	3ZXW4	3ZXY4	—	3ZYE1	3ZXX4	3ZXZ4	3ZYC4	3ZYF8
1¼"	¾"	1¼"	3"	—	—	3ZYA5	—	—	—	—	—
	1¼"	1¼"	3"	3ZXW5	3ZXY5	—	3ZYE3	3ZXX5	3ZXZ5	3ZYC5	3ZYF9
3-Flute											
⅛"	⅛"	—	1¼"	3ZYG1	3ZYJ1	3ZYL1	3ZYT1	3ZYH1	3ZYK1	3ZYP1	3ZYV1
3⁄16"	3⁄16"	—	1⅜"	3ZYG2	3ZYJ2	3ZYL3	3ZYT3	3ZYH2	3ZYK2	3ZYP3	3ZYV3
¼"	¼"	—	1½"	3ZYG3	3ZYJ3	3ZYL5	3ZYT5	3ZYH3	3ZYK3	3ZYP5	2ZTP2
⅜"	¼"	⅞"	1¾"	3ZYG4	3ZYJ4	3ZYL7	3ZYT7	3ZYH4	3ZYK4	3ZYP7	2ZTV5
½"	¼"	1"	2"	3ZYG5	3ZYJ5	3ZYL9	3ZYT9	3ZYH5	3ZYK5	3ZYP9	4CJT2
⅝"	⅜"	1"	2¼"	3ZYG6	3ZYJ6	3ZYN2	3ZYU2	3ZYH6	3ZYK6	3ZYR2	4CJT3
¾"	½"	1¼"	2⅝"	3ZYG7	3ZYJ7	3ZYN4	3ZYU4	3ZYH7	3ZYK7	3ZYR4	4CJT4
1"	½"	1¼"	2¾"	3ZYG8	3ZYJ8	3ZYN6	3ZYU6	3ZYH8	3ZYK8	3ZYR6	4CJT5
1¼"	½"	1¼"	3"	3ZYG9	3ZYJ9	3ZYN8	3ZYU8	3ZYH9	3ZYK9	3ZYR8	4CJT6
6-Flute											
⅛"	⅛"	—	1¼"	4CJT7	4CJV9	4CJY2	4CKA4	4CJU8	4CJX1	4CJZ3	4CKC5
3⁄16"	3⁄16"	—	1⅜"	4CJT8	4CJW1	4CJY3	4CKA5	4CJU9	4CJX2	4CJZ4	4CKC6
¼"	¼"	—	1½"	4CJT9	4CJW2	4CJY4	4CKA6	4CJV1	4CJX3	4CJZ5	4CKC7
⅜"	¼"	⅞"	1¾"	4CJU1	4CJW3	4CJY5	4CKA7	4CJV2	4CJX4	4CJZ6	4CKC8
½"	¼"	1"	2"	4CJU2	4CJW4	4CJY6	4CKA8	4CJV3	4CJX5	4CJZ7	4CKC9
⅝"	⅜"	1"	2¼"	4CJU3	4CJW5	4CJY7	4CKA9	4CJV4	4CJX6	4CJZ8	4CKD1
¾"	½"	1¼"	2⅝"	4CJU4	4CJW6	4CJY8	4CKC1	4CJV5	4CJX7	4CJZ9	4CKD2
1"	½"	1¼"	2¾"	4CJU5	4CJW7	4CJY9	4CKC2	4CJV6	4CJX8	4CKA1	4CKD3
1¼"	½"	1¼"	3"	4CJU6	—	4CJZ1	4CKC3	4CJV7	—	4CKA2	—
	¾"	1¼"	3"	—	4CJW8	—	—	—	4CJX9	—	4CKD4
1½"	¾"	1¼"	3¼"	4CJU7	4CJW9	4CJZ2	4CKC4	4CJV8	4CJY1	4CKA3	4CKD5

Sizes Incl.	BRIGHT (UNCOATED) 82° Item No.	90° Item No.	100° Item No.	60° Item No.	TiAlN 82° Item No.	90° Item No.	100° Item No.	60° Item No.
5-Pc. Countersink Sets								
Fast-Cut Single Flutes								
¼", ⅜", ½", ¾", 1"	4CKD8	4CKE1	4CKE3	—	4CKD9	4CKE2	4CKE4	4CKD7
3-Flutes								
¼", ⅜", ½", ¾", 1"	4CKE7	4CKE9	4CKF2	4CKE5	4CKE8	4CKF1	4CKF3	4CKE6
6-Flutes								
¼", ⅜", ½", ¾", 1"	4CKF6	4CKF8	4CKG1	4CKF4	4CKF7	4CKF9	4CKG2	4CKF5



5-Pc. Set
6-Flutes
No. 4CKF4



Fast-Cut 1-Flute
Bright (Uncoated)
No. 3ZXY4

KEO

Carbide Countersinks

Carbide countersinks provide excellent wear resistance when machining the toughest materials, such as stainless steel.

Fast-Cut 1-Flute—Leaves clean edges on holes and has a high, positive rake that reduces vibration.

3-Flute—Typically provides better chip clearance and performs better when machining stringy materials than countersinks with more flutes.

6-Flute—Provides fast material removal and leaves a smooth finish. Removes more material with each revolution and typically provides more wear resistance than countersinks with fewer flutes.

KEO

Cobalt Steel Counterbores with Built-In Pilots

Counterbores make a flat-bottomed cavity at the top of a hole so that a bolt, nut, or other part is hidden beneath or sits flush with the top of the hole when installed into it. Also called solid pilot counterbores, these counterbores have a built-in pilot that keeps them centered in the hole to ensure a level seat. The pilot cannot be removed. Cobalt steel counterbores provide good wear resistance when machining hard materials at high speeds. For additional sizes, see Grainger.com®.



Oversized
No. 2RTL8



7-Pc. Set
No. 1DBT3

For Screw Size	Bore Dia.	Pilot Dia.	Overall Length	Shank Dia.	Item No.
Oversized					
#6	0.244"	0.153"	3"	7⁄32"	2RTL8
#8	0.288"	0.179"	3"	¼"	2RTN2
#10	0.330"	0.205"	4½"	9⁄32"	2RTN5
¼"	0.398"	0.265"	4½"	5⁄16"	2RTN8
¼"	0.414"	9⁄32"	4½"	5⁄16"	2RTN9
5⁄16"	0.491"	0.328"	4½"	⅜"	2RTP2
5⁄16"	0.507"	0.343"	4½"	⅜"	2RTP3
⅝"	0.961"	0.641"	6"	⅝"	2RTR5
⅜"	0.588"	0.390"	5"	½"	2RTP5
⅜"	0.604"	13⁄32"	5"	½"	2RTP6
7⁄16"	0.679"	0.452"	5"	½"	2RTP8
7⁄16"	0.695"	0.468"	5"	½"	2RTP9
½"	0.773"	0.515"	6"	½"	2RTR2
½"	0.789"	0.531"	6"	½"	2RTR3
⅝"	0.977"	0.656"	6"	⅝"	2RTR6
¾"	1.203"	0.781"	7"	¾"	2RTR8
1"	1.588"	1.032"	7"	1"	2RTT3
Standard					
#4	0.217"	0.143"	3"	5⁄32"	2RTL3
#5	0.237"	5⁄32"	3"	3⁄16"	2RTL6
7⁄16"	0.663"	0.437"	5"	½"	2RTP7
½"	0.757"	½"	5"	½"	2RTR1
⅝"	0.945"	⅝"	6"	⅝"	2RTR4
¾"	1.187"	0.766"	7"	¾"	2RTR7
⅞"	1.391"	0.906"	7"	⅞"	2RTR9
M3	6.00mm	3.4mm	71.00mm	5.00mm	12J465
M8	15.00mm	6.8mm	100.00mm	12.50mm	12J478
M12	20.00mm	10.2mm	100.00mm	12.50mm	12J484
7-Pc. Sets					
#6, #8, #10, ¼", 5⁄16", ⅜", ½"					1DBT3
#6, #8, #10, ¼", 5⁄16", ⅜", ½" +1/32" OS					1DBT5
#6, #8, #10, ¼", 5⁄16", ⅜", ½" +1/64" OS					1DBT4
M3, M4, M5, M6, M8, M10					33UV20

HS
Hassay Savage Company

Broaches

- High-speed steel

Broaches machine keyways and other shapes into a hole. **Davis-style keyway** broaches create precise keyways in the bore holes of pulleys, gears, washers, and other shaft-mounted parts to lock them to keyed shafts. **Hex** and **square** broaches punch hexagonal or square holes in fixtures, jigs, and sockets. Hex broaches turn a round pilot hole into a hexagonal hole in a single pass. Square broaches turn a round pilot hole into a square hole in a single pass.

Keyway Width	Broach Length	Min. Length of Cut	Max. Length of Cut	Item No.
Davis-Style Keyway				
1⁄16"	16"	5⁄8"	1⅞"	12V210
3⁄16"	20"	5⁄8"	3⅛"	12V215
5⁄16"	20"	1 1⁄16"	5 3⁄16"	12V219
⅜"	16"	1 1⁄16"	3 3⁄16"	12V220
9⁄16"	20"	1 1⁄16"	5 3⁄16"	12V225
1"	20"	1 1⁄16"	5 3⁄16"	12V229
2.00mm	16"	5⁄8"	1⅞"	12V247
5.00mm	16"	5⁄8"	1⅞"	12V250
8.00mm	20"	1 1⁄16"	3 3⁄16"	12V255
14.00mm	20"	1 1⁄16"	5 5⁄16"	12V259
25.00mm	20"	1 1⁄16"	5 5⁄16"	12V265



Davis-Style Keyway
No. 12V210

Hex Size	Drill Size	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure Required	Item No.
Hex						
⅛"	⅛"	4 5⁄8"	3⁄16"	⅜"	120 lbs.	12V266
13⁄32"	13⁄32"	10"	½"	1 3⁄8"	4100 lbs.	12V275
9⁄16"	9⁄16"	14 1⁄4"	½"	1 1⁄2"	6700 lbs.	12V279
⅝"	⅝"	16 7⁄8"	⅝"	1 5⁄8"	7250 lbs.	12V280
4.00mm	4.00mm	5 1⁄2"	¼"	½"	340 lbs.	12V285
8.00mm	8.00mm	8¼"	⅜"	1"	2175 lbs.	12V289
20.00mm	20.00mm	17⅞"	⅜"	1 5⁄8"	14,150 lbs.	12V295
25.00mm	25.00mm	19⅞"	⅜"	1 5⁄8"	22,000 lbs.	12V298



Hex
No.
12V285

Square Size	Drill Size	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure Required	Item No.
Square						
3⁄16"	3⁄16"	6¼"	3⁄16"	½"	1200 lbs.	12V319
9⁄32"	19⁄64"	7¼"	⅜"	1"	2300 lbs.	12V305
13⁄32"	27⁄64"	10⅞"	½"	1 3⁄8"	5200 lbs.	12V309
½"	½"	14 7⁄16"	⅜"	1"	5000 lbs.	12V323
1 1⁄16"	¾"	18½"	⅝"	1 5⁄8"	7300 lbs.	12V315
1"	1 3⁄32"	24½"	½"	2"	12,500 lbs.	12V318
4.00mm	4.20mm	5 9⁄16"	5⁄16"	⅝"	1000 lbs.	12V324
5.00mm	10.30mm	6¾"	19⁄64"	1 11⁄16"	2040 lbs.	12V233
8.00mm	8.30mm	8 9⁄16"	7⁄16"	⅞"	2500 lbs.	12V327
22.00mm	22.00mm	18⅞"	⅞"	1¾"	9500 lbs.	12V333
27.00mm	27.00mm	24 9⁄16"	⅞"	1¾"	10,500 lbs.	12V336
#1	#1	6⅞"	¼"	¾"	1580 lbs.	12V303
#30	#30	4 5⁄8"	3⁄16"	½"	700 lbs.	12V299

Square
No.
12V299

Additional reamer sizes and types are available on Grainger.com®.


No. 4LGU1

WESTWARD

Adjustable Hand Reamers

- High-speed steel
- Black-oxide finish
- Sets supplied in wooden box

Adjustable hand reamers have nuts and straight blades that can be adjusted to allow the tool to enlarge or finish holes of different sizes. The blades can be sharpened and replaced. The reamers push chips forward into the hole and are suitable for reaming through holes. They are held with a tap wrench, adjustable wrench, or vise and slowly rotated to feed them into a hole.

No. of Pieces	Sizes Included	Item No.
Adjustable Hand Reamer Sets		
3	3/8" to 15/32"	4LGU2
8	15/32" to 1 1/16"	4LGU3
11	15/32" to 1 1/2"	4LGU4
16	3/8" to 2 7/32"	4LGU5

Min. Reamer Size	Max. Reamer Size	Overall Length	Item No.
3/8"	13/32"	4 3/4"	4LGR4
13/32"	7/16"	5"	4LGR5
7/16"	15/32"	5 1/4"	4LGR6
15/32"	17/32"	5 1/2"	4LGR7
17/32"	19/32"	5 3/4"	4LGR8
19/32"	21/32"	6 1/4"	4LGR9
21/32"	23/32"	6 3/4"	4LGT1
23/32"	25/32"	7"	4LGT2
25/32"	27/32"	7 3/8"	4LGT3
27/32"	15/16"	8"	4LGT4
15/16"	1 1/16"	9"	4LGT5
1 1/16"	1 3/16"	10"	4LGT6
1 3/16"	1 11/32"	11"	4LGT7
1 11/32"	1 1/2"	12"	4LGT8
1 1/2"	1 13/16"	14"	4LGT9
1 13/16"	2 7/32"	16"	4LGU1


No. 20D404

YANKEE

High-Speed Steel Straight Shank Expansion Reamers

These reamers have an adjustment screw that expands the size of their cutting head so it can be reground to its original size. This lets users compensate for wear on the reamers' cutting edge to extend the tools' life. The reamers enlarge or finish a hole to a precise tolerance or size.

Reamer Size	Flute Length	Overall Length	Shank Dia.	Item No.
3/8"	3/4"	7"	5/16"	20D404
13/32"	3/4"	7"	5/16"	20D405
7/16"	7/8"	7"	3/8"	20D406
15/32"	7/8"	7"	3/8"	20D407
1/2"	1"	8"	7/16"	20D408
17/32"	1"	8"	7/16"	20D409
9/16"	1 1/4"	8"	7/16"	20D410
19/32"	1 1/4"	8"	7/16"	20D411
5/8"	1 1/4"	9"	9/16"	20D412
21/32"	1 1/4"	9"	9/16"	20D413
11/16"	1 1/4"	9"	9/16"	20D414
23/32"	1 1/4"	9"	9/16"	20D415
3/4"	1 3/8"	9 1/2"	5/8"	20D416
25/32"	1 3/8"	9 1/2"	5/8"	20D417
13/16"	1 3/8"	9 1/2"	5/8"	20D418
27/32"	1 3/8"	9 1/2"	5/8"	20D419
7/8"	1 1/2"	10"	3/4"	20D420
29/32"	1 1/2"	10"	3/4"	20D421
15/16"	1 1/2"	10"	3/4"	20D422
31/32"	1 1/2"	10"	3/4"	20D423
1"	1 5/8"	10 1/2"	7/8"	20D424
1 1/32"	1 5/8"	10 1/2"	7/8"	20D425
1 1/16"	1 5/8"	10 1/2"	7/8"	20D426
1 3/32"	1 5/8"	10 1/2"	7/8"	20D427
1 1/8"	1 3/4"	11"	7/8"	20D428
1 5/32"	1 3/4"	11"	7/8"	20D429
1 3/16"	1 3/4"	11"	1"	20D430
1 7/32"	1 3/4"	11"	1"	20D431
1 1/4"	1 7/8"	11 1/2"	1"	20D432
1 5/16"	1 7/8"	11 1/2"	1"	20D433
1 3/8"	2"	12"	1"	20D434
1 7/16"	2"	12"	1 1/4"	20D435
1 1/2"	2 1/8"	12 1/2"	1 1/4"	20D436

MONSTER | GG | Super Tool, Inc. | GA GRAINGER APPROVED | YANKEE CORPORATION | CLEVELAND

Chucking Reamers

- Straight shank
- Non-coolant-through design

Chucking reamers mount to a compatible machine such as a drill press, lathe, or screw machine. They enlarge or finish a hole to an exact tolerance or size for a precise fit when installing fasteners or other parts, and they typically have a 45° chamfer on the cutting edge to maximize accuracy as they enter the hole. **Carbide** reamers are suitable for machining the toughest materials. **Carbide-tipped** reamers offer the strength and wear resistance of carbide on just the cutting edge. **Cobalt** reamers are suitable for machining hard materials at high speeds. **High-speed steel** reamers are suitable for general purpose applications. **Right-hand spiral-flute** reamers pull chips out of the hole. **Straight-flute** reamers push chips into the hole.

Reamer Size	Dec. Equiv.	Flute Length	Shank Dia.	Brand	Item No.
Carbide, Straight-Flute					
#40	0.0980	5/8"	0.0980"	Monster	21T225
0.6255"	0.6255	1 3/4"	0.6255"	Monster	21T982
0.6260"	0.6260	1 3/4"	0.6260"	Monster	21T983
0.3930"	0.3930	1 1/4"	0.3930"	Monster	21T870
0.5005"	0.5005	1 1/2"	0.5005"	Monster	21T973
0.2505"	0.2505	1"	0.2505"	Monster	21T737
0.3980"	0.3980	1 1/4"	0.3980"	Monster	21T874
0.5010"	0.5010	1 1/2"	0.5010"	Monster	21T350
0.3830"	0.3830	1 1/4"	0.3830"	Monster	21T861
0.3880"	0.3880	1 1/4"	0.3880"	Monster	21T865
0.4680"	0.4680	1 3/8"	0.4680"	Monster	21T943
0.4840"	0.4840	1 1/2"	0.4840"	Monster	21T960
0.4530"	0.4530	1 3/8"	0.4530"	Monster	21T928
0.3780"	0.3780	1 1/4"	0.3780"	Monster	21T856
0.4210"	0.4210	1 3/8"	0.4210"	Monster	21T895
0.3755"	0.3755	1 1/4"	0.3755"	Monster	21T854
0.4060"	0.4060	1 1/4"	0.4060"	Monster	21T881
0.3900"	0.3900	1 1/4"	0.3900"	Monster	21T867
0.2620"	0.2620	1 1/8"	0.2620"	Monster	21T753
0.3590"	0.3590	1 1/4"	0.3590"	Monster	21T841
0.3270"	0.3270	1 1/4"	0.3270"	Monster	21T813
0.3130"	0.3130	1 1/8"	0.3130"	Monster	21T801
0.1625"	0.1625	7/8"	0.1625"	Monster	21T585
0.3280"	0.3280	1 1/4"	0.3280"	Monster	21T814
0.3430"	0.3430	1 1/4"	0.3430"	Monster	21T827
1/16"	0.0625	3/8"	0.0625"	Monster	21T209
1/8"	0.1250	5/8"	0.1250"	Monster	21T239
1/4"	0.2500	1"	0.2500"	Monster	21T291
19/64"	0.2969	1 1/8"	0.2812"	Osg	34YK40
19/64"	0.2969	1 1/8"	0.2969"	Monster	21T307
5/16"	0.3125	1 1/8"	0.3125"	Monster	21T310
3/8"	0.3750	1 1/4"	0.3750"	Monster	21T326
1/2"	0.5000	1 1/2"	0.5000"	Monster	21T349
4.93mm	0.1940	48.00mm	4.90MM	Osg	35DP84
Y	0.4040	1 1/4"	0.4040"	Monster	21T333


Carbide, Straight-Flute
No. 21T225

13-Pc. Set High-Speed Steel, Right-Hand Straight Flute
No. 11V296

Reamer Size	Dec. Equiv.	Flute Length	Shank Dia.	Brand	Item No.
Carbide-Tipped, Straight-Flute					
#8	0.1990	1 1/8"	0.1718"	Super Tool	24L428
0.5150"	0.5150	2"	7/16"	Super Tool	24M252
0.5525"	0.5525	2"	7/16"	Super Tool	24M332
0.4485"	0.4485	1 3/4"	3/8"	Super Tool	24L951
9/16"	0.6250	2 1/4"	9/16"	Super Tool	24M482
12.00mm	0.4724	51.00mm	11.11MM	Super Tool	24M003
32.00mm	1.2598	76.00mm	25.40MM	Super Tool	24M839
Cobalt, Straight-Flute					
5/16"	0.3125	1 1/2"	5/16"	GA	20G453
1/2"	0.5000	2"	1/2"	GA	20G492
1 1/16"	1.0625	2 3/4"	1.0625"	GA	20G511
High-Speed Steel, Right-Hand Spiral Direction					
1 3/8"	1.3750	3 1/4"	MT4	Yankee	20D524
1 9/16"	1.5625	3 1/2"	1.2490"	GA	20G871
High-Speed Steel, Straight-Flute					
#10	0.1935	1 1/8"	#13	Cleveland	445N59
#11	0.1910	1 1/8"	#13	Cleveland	445N58
#9	0.1960	1 1/8"	#12	Cleveland	445N60
0.3810"	0.3810	1 3/4"	0.3810"	Yankee	20F507
0.2510"	0.2510	1 1/2"	0.2400"	Cleveland	445N77
0.2520"	0.2520	1 1/2"	0.2520"	Yankee	20F274
0.4700"	0.4700	2"	0.4700"	Yankee	20F677
1/4"	0.2500	1 1/2"	0.2400"	Cleveland	3L198
5/16"	0.3125	1 1/2"	0.2787"	Cleveland	3L326
3/8"	0.3750	1 3/4"	3/8"	Yankee	20D117
3/8"	0.3750	1 3/4"	0.3100"	Cleveland	3L448
3/8"	0.3750	1 3/4"	3/8"	GA	11V330
7/16"	0.4375	1 3/4"	0.3725"	Cleveland	3L539
1/2"	0.5000	2"	29/64"	Cleveland	3L692
1/2"	0.5000	2"	1/2"	GA	11V338
19/32"	0.5938	2"	29/64"	Cleveland	445P27
5/8"	0.6250	2 1/4"	5/8"	GA	11V342
3/4"	0.7500	2 1/2"	3/4"	GA	11V346
3/4"	0.7500	2 1/2"	0.6238"	Cleveland	445P33
55/64"	0.8594	2 5/8"	0.0420"	GA	20G794
15/16"	0.9375	2 5/8"	MT3	Yankee	20D483
1"	1.0000	2 3/4"	1.0000"	GA	11V354
1 1/32"	1.0312	2 3/4"	0.3160"	GA	20G765
1 1/4"	1.2500	3"	0.9988"	Cleveland	445P45
1 5/8"	1.6250	3 1/2"	0.3760"	GA	20G775
8.00mm	0.3150	1 1/2"	0.3149"	GA	13H728
16.00mm	0.6299	2 1/4"	0.6299"	GA	13H744
20.00mm	0.7874	2 1/2"	0.7874"	GA	13H752
25.00mm	0.9843	2 3/4"	0.9646"	GA	13H761
30.00mm	1.1811	2 7/8"	0.9843"	GA	13H762

No. of Pieces	Sizes Incl.	Includes	Brand	Item No.
Chucking Reamer Sets				
High-Speed Steel, Right-Hand, Spiral Flute				
15	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	Metal Case	GA	11V297
29	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"	Wood Case	GA	11V302
High-Speed Steel, Right-Hand, Straight Flute				
13	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4"	Metal Case	GA	11V296
13	1.00mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm, 3.50mm, 4.00mm, 4.50mm, 5.00mm, 5.50mm, 6.00mm, 6.50mm, 7.00mm	Plastic Pouch	GA	11V306
15	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	Plastic Pouch	GA	11V298
25	1.00mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm, 3.50mm, 4.00mm, 4.50mm, 5.00mm, 5.50mm, 6.00mm, 6.50mm, 7.00mm, 7.50mm, 8.00mm, 8.50mm, 9.00mm, 9.50mm, 10mm, 10.50mm, 11.00mm, 11.50mm, 12.00mm, 12.50mm, 13.00mm	Wood Case	GA	11V307
26	A-Z		GA	11V303
29	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"	Metal Case	Cleveland	3K464
29	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"	Metal Case	GA	11V301
60	#60 to #1	Metal Case	GA	11V304
60	#60 to #1	Wood Case	GA	11V305

Additional reamer sizes and types are available on Grainger.com®.



Helical Flute
No. 20D580



Spiral Flute
No. 20D595



Straight Flute
No. 20D556

YANKEE CORPORATION

CLEVELAND

Taper Pin Reamers

- High-speed steel
- Bright (uncoated) finish

Taper pin reamers enlarge, finish, or shape holes for a precise fit when installing taper pins into the hole. They have a ¼" taper to the foot and are made from high-speed steel, which offers good wear resistance in general purpose metalworking applications.

Helical—Reduce the size of the chips created during reaming and prevent chips from packing in the flutes. Operated with a machine such as a drill press, lathe, or screw machine.

Straight—Push chips forward into the hole and are the most commonly used style of reamer. Operated with a tap wrench, adjustable wrench, or vise.

Spiral—Pull chips out of the hole during reaming, which helps prevent damage to the reamers and workpiece. Suitable for reaming applications with blind holes and interrupted cuts. Operated with a machine such as a drill press, lathe, or screw machine.

For Pin Size	Small End Dia.	Large End Dia.	Shank Dia.	Flute Length	Overall Length	HELICAL FLUTE Brand	HELICAL FLUTE Item No.	STRAIGHT FLUTE Brand	STRAIGHT FLUTE Item No.	SPIRAL FLUTE Brand	SPIRAL FLUTE Item No.
Left Hand Spiral											
#0	0.1287"	0.1638"	1 1/64"	1 11/16"	2 15/16"	—	—	—	—	Yankee	20D595
#1	0.1447"	0.1798"	3/16"	1 11/16"	2 15/16"	Yankee	20D575	—	—	—	—
#2	0.1605"	0.2008"	13/64"	1 15/16"	3 15/16"	Yankee	20D576	—	—	Yankee	20D597
#2/0	1/8"	0.1462"	5/32"	1 5/8"	2 5/8"	—	—	—	—	Yankee	20D611
#2/0	0.1137"	0.1462"	5/32"	1 5/8"	2 5/8"	Yankee	20D589	—	—	—	—
#3	3/16"	0.2294"	15/64"	2 5/16"	3 11/16"	—	—	—	—	Yankee	20D598
#3	0.1813"	0.2294"	15/64"	2 5/16"	3 11/16"	Yankee	20D577	—	—	—	—
#3/0	1/8"	0.1302"	9/64"	1 5/16"	2 5/16"	—	—	—	—	Yankee	20D612
#3/0	0.1029"	0.1302"	9/64"	1 5/16"	2 5/16"	Yankee	20D590	—	—	—	—
#4	3/16"	0.2604"	17/64"	2 9/16"	4 5/8"	—	—	—	—	Yankee	20D599
#4	0.2071"	0.2604"	17/64"	2 9/16"	4 5/8"	Yankee	20D578	—	—	—	—
#4/0	1/16"	0.1142"	1/8"	1 5/16"	2 5/16"	—	—	—	—	Yankee	20D613
#5	1/4"	0.2994"	5/16"	2 13/16"	4 5/16"	—	—	—	—	Yankee	20D601
#5	0.2409"	0.2994"	5/16"	2 13/16"	4 5/16"	Yankee	20D579	—	—	—	—
#6	1/4"	0.3540"	23/64"	3 5/8"	5 7/16"	—	—	—	—	Yankee	20D602
#6	0.2773"	0.3540"	23/64"	3 5/8"	5 7/16"	Yankee	20D580	—	—	—	—
#6/0	1/16"	0.0806"	3/32"	15/16"	1 15/16"	—	—	—	—	Yankee	20D615
#7	5/16"	0.4220"	13/32"	4 7/16"	6 5/16"	—	—	—	—	Yankee	20D603
#7	0.3297"	0.4220"	13/32"	4 7/16"	6 5/16"	Yankee	20D581	—	—	—	—
#8	3/8"	0.5050"	7/16"	5 3/16"	7 3/16"	—	—	—	—	Yankee	20D604
#8	0.3971"	0.5050"	7/16"	5 3/16"	7 3/16"	Yankee	20D582	—	—	—	—
#9	1/4"	0.6066"	9/16"	6 3/8"	8 3/16"	—	—	—	—	Yankee	20D605
#9	0.4805"	0.6066"	9/16"	6 3/8"	8 3/16"	Yankee	20D583	—	—	—	—
#10	9/16"	0.7216"	5/8"	6 13/16"	9 5/16"	—	—	—	—	Yankee	20D606
#11	11/16"	0.8780"	3/4"	8 1/4"	11 1/4"	—	—	—	—	Yankee	20D607
#13	1"	1.2590"	1 1/16"	12"	16"	—	—	—	—	Yankee	20D609
Right Hand Spiral											
#0	0.1287"	0.1638"	1 1/64"	1 11/16"	2 15/16"	—	—	Yankee	20D553	—	—
#1	1/8"	0.1798"	3/16"	1 11/16"	2 15/16"	—	—	—	—	Cleveland	445N25
#1	0.1447"	0.1798"	3/16"	1 11/16"	2 15/16"	—	—	Yankee	20D554	—	—
#2	3/16"	0.2008"	13/64"	1 15/16"	3 3/16"	—	—	—	—	Cleveland	445N26
#2	0.1605"	0.2008"	13/64"	1 15/16"	3 3/16"	Cleveland	445M93	—	—	—	—
#2	0.1605"	0.2008"	13/64"	1 15/16"	3 15/16"	—	—	Yankee	20D555	—	—
#2/0	0.1137"	0.1462"	5/32"	1 5/8"	2 5/8"	—	—	Yankee	20D568	—	—
#3	3/16"	0.2294"	15/64"	2 5/16"	3 11/16"	—	—	—	—	Cleveland	445N27
#3	0.1029"	0.1302"	9/64"	1 5/16"	2 5/16"	—	—	Cleveland	445N06	—	—
#3	0.1813"	0.2294"	15/64"	2 5/16"	3 11/16"	—	—	Cleveland	445N11	—	—
#3	0.1813"	0.2294"	15/64"	2 5/16"	3 11/16"	Cleveland	445M94	Yankee	20D556	—	—
#3/0	0.1029"	0.1302"	9/64"	1 5/16"	2 5/16"	—	—	Yankee	20D569	—	—
#4	3/16"	0.2604"	17/64"	2 9/16"	4 1/16"	—	—	—	—	Cleveland	445N28
#4	0.2071"	0.2604"	17/64"	2 9/16"	4 5/8"	—	—	Yankee	20D557	—	—
#4	0.2071"	0.2604"	17/64"	2 9/16"	4 1/16"	Cleveland	445M95	Cleveland	445N12	—	—
#4/0	0.0869"	0.1142"	1/8"	1 5/16"	2 5/16"	Cleveland	445M88	—	—	—	—
#5	1/4"	0.2994"	5/16"	2 13/16"	4 5/16"	—	—	—	—	Cleveland	445N29
#5	0.2409"	0.2994"	5/16"	2 13/16"	4 5/16"	Cleveland	445M96	Yankee	20D558	—	—
#5	0.2409"	0.2994"	5/16"	2 13/16"	4 5/16"	—	—	Cleveland	445N13	—	—
#5/0	0.0719"	0.0966"	7/64"	1 3/16"	2 3/16"	Cleveland	445M87	Yankee	20D571	—	—
#6	1/4"	0.3540"	23/64"	3 11/16"	5 7/16"	—	—	—	—	Cleveland	445N30
#6	0.2773"	0.3540"	23/64"	3 5/8"	5 7/16"	—	—	Yankee	20D559	—	—
#6	0.2773"	0.3540"	23/64"	3 11/16"	5 7/16"	Cleveland	445M97	Cleveland	445N14	—	—
#6/0	0.0611"	0.0806"	3/32"	15/16"	1 15/16"	—	—	Yankee	20D572	—	—
#7	5/16"	0.4220"	13/32"	4 7/16"	6 5/16"	—	—	—	—	Cleveland	445N31
#7	0.3297"	0.4220"	13/32"	4 7/16"	6 5/16"	—	—	Cleveland	445N15	—	—
#7	0.3297"	0.4220"	13/32"	4 7/16"	6 5/16"	Cleveland	445M98	Yankee	20D560	—	—
#7/0	0.0497"	0.0666"	9/64"	13/16"	1 13/16"	Cleveland	445M85	Yankee	20D573	—	—
#8	3/8"	0.5050"	7/16"	5 3/16"	7 3/16"	—	—	—	—	Cleveland	445N32
#8	0.3971"	0.5050"	7/16"	5 3/16"	7 3/16"	—	—	Cleveland	445N16	—	—
#8	0.3971"	0.5050"	7/16"	5 3/16"	7 3/16"	Cleveland	445M99	Yankee	20D561	—	—
#9	1/4"	0.6066"	9/16"	6 1/16"	8 5/16"	—	—	—	—	Cleveland	445N33
#9	0.4805"	0.6066"	9/16"	6 1/16"	8 5/16"	Cleveland	445N01	Cleveland	445N17	—	—
#9	0.4805"	0.6066"	9/16"	6 3/8"	8 5/16"	—	—	Yankee	20D562	—	—
#10	9/16"	0.7216"	5/8"	6 13/16"	9 5/16"	—	—	—	—	Cleveland	445N34
#10	0.5799"	0.7216"	5/8"	6 13/16"	9 5/16"	Cleveland	445N02	Yankee	20D563	—	—
#10	0.5799"	0.7216"	5/8"	6 13/16"	9 5/16"	—	—	Cleveland	445N18	—	—
#11	0.7060"	0.8780"	3/4"	8 1/4"	11 1/4"	—	—	Yankee	20D564	—	—
#12	0.8420"	1.0500"	3/4"	10"	13 7/8"	—	—	Yankee	20D565	—	—
2"	0.5696"	0.7444"	5/8"	3 1/2"	6"	—	—	Yankee	20D537	—	—
3"	0.7748"	0.9881"	7/8"	4 1/4"	7 1/4"	—	—	Yankee	20D538	—	—



Hex Nut with Safety Magnet, Black Oxide
No. 12G352



Morse Taper, Black Oxide
No. 13H785



Straight with Safety Collar, Bright (Uncoated)
No. 13H830



Straight with Three Flats, Black Oxide
No. 13H816

GA GRAINGER APPROVED

High-Speed Steel Bridge Reamers

Bridge reamers install into compatible power tools to enlarge, debur, and finish holes in structural materials to a specific size. They have tapered flutes that ease their entry into rough-cut or misaligned holes. Designed for reaming difficult-to-machine materials such as iron and structural steel in applications where extreme precision is not required. Also commonly used to ream rivet holes in parts for automobile, bridges, rail cars, ships, and pressure vessels.

HEX NUT SHANK

Hex nut keeps the reamer securely in place in tools that have a square drive. Typically used to ensure the reamer won't come loose when it's used in a power tool that is being operated at a high location. **Hex nut shank with safety magnet** also have a magnet on the shank and provide a stronger hold than reamers that are secured with only a hex nut.

MORSE TAPER SHANK

Can be directly inserted into the spindle of a compatible tool or into an adapter such as a Morse taper sleeve or socket. This maximizes efficiency when installing and removing the reamers. These reamers provide accurate centering, and their self-locking taper shank is held in place by the friction between the shank and the toolholder.

STRAIGHT SHANK

Straight shank reamers with safety collars prevent the reamer from going too deep into the workpiece. **Straight shank reamers with three flats** are used in pneumatic or electric power tools.

Size - Decimal	Flute Length	Overall Length	Shank Dia.	Item No.
Hex Nut Shank, Black Oxide				
9/16" - 0.5625	5 1/8"	6 7/8"	1 1/16"	13H855
11/16" - 0.6875	4 1/2"	6 3/8"	1 1/16"	13H856
11/16" - 0.6875	7 1/8"	9 1/4"	1 1/16"	13H857
13/16" - 0.8125	5"	7"	1 1/4"	13H858
13/16" - 0.8125	7 3/8"	9 3/8"	1 1/4"	13H859
15/16" - 0.9375	5"	7"	1 7/16"	13H860
15/16" - 0.9375	7 3/8"	9 3/8"	1 7/16"	13H861
1 1/16" - 1.0625	5"	7"	1 5/8"	13H862
1 1/16" - 1.0625	7 3/8"	9 3/8"	1 5/8"	13H863
1 3/16" - 1.1875	5"	7"	1 13/16"	13H864
1 5/16" - 1.3125	7 3/8"	10"	2"	13H866
Hex Nut Shank with Safety Magnet, Black Oxide				
9/16" - 0.5625	4"	5 1/2"	1 1/16"	12G352
5/8" - 0.6250	4 1/2"	6"	1 1/16"	12G353
11/16" - 0.6875	4 1/2"	6 3/8"	1 1/16"	12G354
3/4" - 0.7500	5"	7"	1 1/4"	12G355
13/16" - 0.8125	5"	7"	1 1/4"	12G356
7/8" - 0.8750	5"	7"	1 7/16"	12G357
15/16" - 0.9375	5"	7"	1 7/16"	12G358
1" - 1.0000	5"	7"	1 7/16"	12G359
1 1/16" - 1.0625	5"	7"	1 5/8"	12G360
1 1/8" - 1.1250	5"	7"	1 5/8"	12G361
1 3/16" - 1.1875	5"	7"	1 13/16"	12G362
1 1/4" - 1.2500	5"	7"	1 13/16"	12G363
1 5/16" - 1.3125	5"	7 7/8"	2"	12G364
1 3/8" - 1.3750	7 3/8"	10"	2"	12G365
1 7/16" - 1.4375	7 3/8"	10"	2"	12G366
1 1/2" - 1.5000	7 3/8"	10"	2"	12G367
Morse Taper Shank, Black Oxide				
3/8" - 0.3750	2 3/4"	5 11/16"	MT1	13H785
1/2" - 0.5000	5 1/8"	9"	MT2	13H788
5/8" - 0.6250	4 1/2"	8 1/16"	MT2	13H791
13/16" - 0.8125	5"	9 1/2"	MT3	13H797
13/16" - 0.8125	7 3/8"	12"	MT3	13H798
1 1/16" - 1.0625	5"	9 1/2"	MT3	13H806
1 1/16" - 1.0625	7 3/8"	12"	MT3	13H807
1 1/8" - 1.1250	5"	9 1/2"	MT3	13H808
1 1/8" - 1.1250	7 3/8"	12"	MT3	13H809
1 1/4" - 1.2500	5"	10 1/2"	MT4	13H810
1 3/8" - 1.3750	7 3/8"	13"	MT4	13H812
1 1/2" - 1.5000	7 3/8"	13"	MT4	13H813
Straight with Safety Collar, Bright (Uncoated)				
3/16" - 0.1875	1 3/8"	3 1/2"	1/4"	13H830
7/32" - 0.2187	1 3/8"	3 1/2"	1/4"	13H831
1/4" - 0.2500	1 7/8"	4"	1/4"	13H832
9/32" - 0.2812	1 7/8"	4"	1/4"	13H833
3/8" - 0.3750	2 7/8"	5"	3/8"	13H836
7/16" - 0.4375	3 1/8"	5 1/4"	7/16"	13H837
1/2" - 0.5000	3 13/16"	5 15/16"	1/2"	13H838
9/16" - 0.5625	4 1/8"	6 1/4"	1/2"	13H839
5/8" - 0.6250	4 7/16"	6 9/16"	1/2"	13H840
11/16" - 0.6875	4 7/8"	7"	1/2"	13H841
3/4" - 0.7500	4 7/8"	7"	1/2"	13H842
13/16" - 0.8125	5 1/8"	7 1/4"	1/2"	13H843
7/8" - 0.8750	5 1/8"	7 1/4"	1/2"	13H844
15/16" - 0.9375	5 1/8"	7 1/4"	1/2"	13H845
1" - 1.0000	5 1/8"	7 1/4"	1/2"	13H846
1 1/16" - 1.0625	5 1/8"	7 1/4"	1/2"	13H847
1 1/8" - 1.1250	5 1/8"	7 1/4"	1/2"	13H848
1 3/16" - 1.1875	5 1/8"	7 1/4"	1/2"	13H849
1 1/4" - 1.2500	5 3/8"	7 1/2"	1/2"	13H850
1 5/16" - 1.3125	5 3/8"	7 1/2"	1/2"	13H851
1 3/8" - 1.3750	5 3/8"	7 1/2"	1/2"	13H852
1 1/2" - 1.5000	5 3/8"	7 1/2"	1/2"	13H853
Straight with Three Flats, Black Oxide				
3/8" - 0.3750	2 1/2"	4 3/8"	3/8"	13H816
7/16" - 0.4375	3 1/4"	5 3/8"	7/16"	13H817
1/2" - 0.5000	3 3/4"	5 7/8"	1/2"	13H818
9/16" - 0.5625	3 3/4"	5 7/8"	1/2"	13H819
5/8" - 0.6250	4 1/4"	6 3/8"	1/2"	13H820
21/32" - 0.6562	4 1/4"	6 3/8"	1/2"	13H821
11/16" - 0.6875	4 1/4"	6 3/8"	1/2"	13H822
3/4" - 0.7500	4 1/2"	6 7/8"	1/2"	13H823
13/16" - 0.8125	4 1/2"	6 7/8"	1/2"	13H825
7/8" - 0.8750	4 1/2"	6 7/8"	1/2"	13H826
15/16" - 0.9375	4 1/2"	6 7/8"	1/2"	13H827
1" - 1.0000	4 1/2"	6 7/8"	1/2"	13H828
1 1/16" - 1.0625	4 1/2"	6 7/8"	1/2"	13H829



Spiral Flute
No. 1U296



Straight Flute
No. 2LKP1



Drill/Screw Extractor Set
No. 4DZL8

Screw and Drill Extractor Sets

High-carbon steel construction, heat-treated and tempered for long life.

Multi-Spline—Use to remove broken studs, bolts, socket screws, and fittings for high torque applications. Left-hand spiral design provides extra gripping power.

Spiral Flute—Tapered left-hand spiral flutes grip screws firmly.

Straight Flute—Provide maximum bite without binding or chewing.

Drill/Screw Extractor Sets—Include both screw extractors and drill bits.

For Removing Studs, Bolts, Screws	No. of Pieces	Includes	WESTWARD Item No.	VERMONT AMERICAN Item No.	CHICAGO-LATROBE Item No.	IRWIN HANSON Item No.
Multi-Spline						
⅛" to ⅞"	25	Multispline Extractors ⅛" - ⅞"	—	—	—	5VUC6
⅛" to 13/32"	10	Multispline Extractors ⅛" - 13/32"	—	—	—	5VUC5
Spiral Flute						
#8 to ¾"	5	#1, #2, #3, #4, #5	2RUP8	—	1U296	—
#8 to 1"	5	#1, #2, #3, #4, #5, #6 Pouch	2RUP9	—	—	—
	6	#1, #2, #3, #4, #5, #6	—	—	1U298	—
3/32 to ⅝"	5	#1, #2, #3, #4, #5	2RUR6	2LKN9	—	—
Straight Flute						
¼ to ¾"	5	3/8"-9.5mm, 7/16"-11mm, ½"-12.5mm, 9/16"-14mm, ⅝"-16mm	—	—	—	2ETL9
¼ to ⅝"	5	#1, #2, #3, #4, #5	2RUR7	2LKP1	—	—

For Removing Studs, Bolts, Screws	No. of Pieces	Includes	Drill Size (in.)	Brand	Item No.
Drill/Screw Extractor Sets					
⅛ to ½	35	Spiral EX1-EX6, Multi-Spline ⅛" - ½"	N/A	Irwin Hanson	5VUC4
	10	#1, #2, #3, #4, #5	—	Westward	2RUR2
	10	#1, #2, #3, #4, #5	—	Vermont American	2LKP2
3/32 to ⅝"	48	EX-1, EX-2, EX-3, EX-4, EX-5, EX-6, ⅛, 5/32, 3/16, 7/32, ¼, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, ½, ¼, 5/16-8mm, 3/8, 10mm, 7/16-11mm, 12mm, ½, 13mm, 9/16-14mm, 5/8-16mm, 17mm, 11/16, ¾-19mm	5/64, 7/64, ⅛, 5/32, 3/16, 7/32, ¼, 9/32, 19/64, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, ½	Irwin Hanson	2ETL8
Bolts #5 and #6 to ½", 3 to 12mm	7	#1, #2, #3, #4, 5/16", 3/8", ½"	—	Alden	4DZL8
Bolts #5 and #6 to ¼", 3 to 6mm	4	#1, #2, #3, #4	—	Alden	4DZL2
Bolts ¼ to ½", 6 to 12mm	4	¼", 5/16", 3/8", ½"	—	Alden	4DZK6
Screws #1	2	5/64" Drill, #1 Extractor	5/64"	Cle-Line	445M79
Screws #1 to #6	12	7/64", 5/32", ¼", 17/64", 13/32" Drills #1, #2, #3, #4, #5, #6 Extractors 5/64", 7/64", 5/32", ¼", 17/64", 13/32" Drills, Pouch	5/64", 7/64", 5/32", ¼", 17/64", 13/32"	Chicago-Latrobe	445M36
	12	—	5/64", 7/64", 5/32", ¼", 17/64", 13/32"	Chicago-Latrobe	445M39
Screws #1 to #9	9	#1 to #9	5/64", 7/64", 5/32", ¼", 17/64", 13/32", 17/32", 13/16", 1 1/16"	Chicago-Latrobe	445M35
Screws #2	2	7/64" Drill, #2 Extractor	7/64"	Cle-Line	445M80
Screws #3	2	5/32" Drill, #3 Extractor	5/32"	Cle-Line	445M81
Screws #4	2	¼" Drill, #4 Extractor	¼"	Cle-Line	445M82
Screws #4 to #10, Bolts #10 to ¼", 5 to 6mm	2	#1, #2	—	Alden	4DZK1
Screws #4 to #24, Bolts #10 to ⅜", 5 to 10mm	4	#1, #2, #3, #4	—	Alden	4DZJ9
Screws #4 to #6	3	Screw Extractors Held In Plastic Tube	¼", 17/64", 13/32"	Chicago-Latrobe	445M33
Screws #5	2	17/64" Drill, #5 Extractor	17/64"	Cle-Line	445M83
Screws #5, #5-1/4, #6-3/8, #7-1/2	4	#5, #5-1/4, #6-3/8, #7-1/2	17/64", 23/64", 31/64", 39/64"	Chicago-Latrobe	445M37
Screws #5, #5-1/4, #6-3/8, #7-1/2, #8, #9	6	Screw Extractors Held In Wood Block	17/64", 23/64", 31/64", 39/64", 13/16", 1 1/16"	Chicago-Latrobe	445M38
Screws #6	2	13/32" Drill, #6 Extractor	13/32"	Cle-Line	445M84
Screws #6 to #14 and Bolts #5 and #6 to ½", 3 to 12mm	10	#1, #2, #3, #4, 5/16", 3/8", ½", X-out® Sizes #1, #2, #3	—	Alden	4DZL7
Screws #6 to #9	4	Screw Extractors Held In Wood Block	13/32", 17/32", 13/16", 1 1/16"	Chicago-Latrobe	445M34

No. 4DZK5



For Removing Studs, Bolts, Screws	Drill Size (in.)	Type	Mfr. Model	Brand	Item No.
Screw Extractors					
#12 to 5/16	7/64	Ezy-Out	C53652	Cleveland	445U53
	7/64	Spiral Flute	65003	Chicago-Latrobe	1U218
#8 to ¼	5/64	Ezy-Out	C53651	Cleveland	445U52
	5/64	Spiral Flute	65001	Chicago-Latrobe	1U216
⅛ to ¼	5/64	Spiral Flute	2RUL8	Westward	2RUL8
¼ to 5/16	5/32	Spiral Flute	2RUL9	Westward	2RUL9
5/16 to 7/16	5/32	Ezy-Out	C53653	Cleveland	445U54
	5/32	Spiral Flute	2RUP1	Westward	2RUP1
	5/32	Spiral Flute	65005	Chicago-Latrobe	1U220
7/16 to 9/16	¼	—	65007	Chicago-Latrobe	1U222
	¼	Ezy-Out	C53654	Cleveland	445U55
	¼	Spiral Flute	2RUP2	Westward	2RUP2
9/16 to ¾	9/32	Ezy-Out	C53655	Cleveland	445U56
	17/64	Spiral Flute	2RUP3	Westward	2RUP3
	17/64	Spiral Flute	65009	Chicago-Latrobe	1U224
11/16 to 15/16	23/64	Conventional Spiral	65011	Chicago-Latrobe	445M28
¾ to 1	13/32	Ezy-Out	C53656	Cleveland	445U57
	13/32	Spiral Flute	2RUP4	Westward	2RUP4
	13/32	Spiral Flute	65013	Chicago-Latrobe	1U226
15/16 to 1 1/8	31/64	Conventional Spiral	65015	Chicago-Latrobe	445M29
1 to 1 3/8	1/32	Ezy-Out	C53657	Cleveland	445U58
1 to 1 3/8	1/32	Spiral Flute	2RUP5	Westward	2RUP5
	1/32	Spiral Flute	65017	Chicago-Latrobe	1U228
1 1/8 to 1 1/2	39/64	—	65019	Chicago-Latrobe	4EK89
	39/64	Spiral Flute	2RUR1	Westward	2RUR1
1 3/8 to 1 3/4	1 3/16	Ezy-Out	C53658	Cleveland	445U59
	1 3/16	Spiral Flute	2RUP6	Westward	2RUP6
	1 3/16	Spiral Flute	65021	Chicago-Latrobe	1U230
1 3/4 to 2 1/8	1 1/16	Ezy-Out	C53659	Cleveland	445U60
	1 1/16	Spiral Flute	2RUP7	Westward	2RUP7
1 3/4 to 2	1 1/16	Spiral Flute	65023	Chicago-Latrobe	1U234
2 1/8 to 2 1/2	1 5/16	Conventional Spiral	65025	Chicago-Latrobe	445M30
	1 5/16	Ezy-Out	C53660	Cleveland	445U61
2 1/2 to 3	1 5/16	Conventional Spiral	65027	Chicago-Latrobe	445M31
	1 5/16	Ezy-Out	C53661	Cleveland	445U62
3 to 3 1/2	1 15/16	Conventional Spiral	65029	Chicago-Latrobe	445M32
	1 15/16	Ezy-Out	C53662	Cleveland	445U63

Screw Extractor and Hard Steel Drill Bits

For removing broken screws, bolts, and threaded parts. Extractor is inserted into predrilled hole and broken screw is backed out with a wrench.

For Removing Studs, Bolts, Screws	Drill Size (in.)	Type	Mfr. Model	Brand	Item No.
Screw Extractor Drill Bits					
—	⅛	Left Hand	LHSP-1	B & A	4CJC4
	3/16	Left Hand	LHSP-4	B & A	4CJC5
	7/32	Left Hand	LHSP-5	B & A	4CJC6
	¼	Left Hand	LHSP-6	B & A	4CJC7
	5/16	Left Hand	LHSP-9	B & A	4VYY1
	⅜	Left Hand	LHSP-12	B & A	4VYZ1
#10, 5mm	#3	Double-Ended Bit	1907P	Alden	4DZL4
#5, #6, 3mm	#1	Double-Ended Bit	1257P	Alden	4DZL6
#8, 4mm	#2	Double-Ended Bit	1647P	Alden	4DZL5
¼", 6mm	#4	Double-Ended Bit	2367P	Alden	4DZL3
	1/4"	Power Extractor Bit	2507P	Alden	4DZL1
5/16", 8mm	5/16"	Power Extractor Bit	3127P	Alden	4DZK9
⅜", 10mm	3/8"	Power Extractor Bit	3757P	Alden	4DZK8
½", 12mm	1/2"	Power Extractor Bit	5007P	Alden	4DZK7
Screws #11 to #14, Bolts 5/16", 8mm	#3	Double-Ended Bit	8403P	Alden	4DZK4
Screws #16 to #24, Bolts ⅜", 10mm	#4	Double-Ended Bit	8404P	Alden	4DZK5
Screws #4 to #7, Bolts #10, 5mm	#1	Double-Ended Bit	8401P	Alden	4DZK2
Screws #8 to #10, Bolts ¼", 6mm	#2	Double-Ended Bit	8402P	Alden	4DZK3
Hard Steel Drill Bits					
—	⅛	Right Hand	SP-1	B & A	4CJC8
	3/16	Right Hand	SP-4	B & A	4CJC9
	7/32	Right Hand	SP-5	B & A	4CJD1
	¼	Right Hand	SP-6	B & A	4CJD2
	5/16	Right Hand	SP-9	B & A	4VYX3
	⅜	Right Hand	SP-12	B & A	4VYX5

Tap Information and Tap/Drill Size Reference Charts

TAP TYPES

Chip-Free Thread-Forming Taps
Press against the sides of a hole to form threads, and don't create chips. Produce cleaner, stronger, and more accurate threads than taps that cut threads.

Pipe and Conduit Thread Taps
Used for internal threading of pipes, pipe fittings, and holes.

Spiral-Flute Taps
Spiral flutes pull chips out and away from the hole to prevent chips from packing in the hole.

Spiral-Point Taps
An angular point pushes chips in front of the tap, which helps keep the tap's flutes from clogging.

Straight-Flute Taps
Chips move into the taps' straight flutes but are not evacuated during threading.

MATERIALS

Carbide
Provides maximum hardness and excellent resistance to heat and wear. Suitable for tapping hard materials at high speeds and requires a rigid setup such as a CNC machine.

Carbon Steel
Suitable for thread repair tasks that do not require high accuracy.

Cobalt
Harder and more wear-resistant than high-speed steel. Suitable for high-speed tapping in hard materials.

High-Speed Steel
Offers more resistance to abrasion and heat than carbon steel and provides good wear resistance in a range of materials.

Powdered Metal
Tougher and less likely to break than cobalt and high-speed steel. Finishes and Coatings

Black Oxide
Retains lubricants to improve wear resistance and chip flow.

Bright (uncoated)
Provides a smooth, polished surface.

CrC/C
Multilayer coating with an inner layer of TiN and an outer layer of CrC/C. Protects against wear when tapping ferrous and nonferrous metals.

Diamond
Offers excellent hardness and protects against wear when threading abrasive materials.

Hardlube
Features an inner layer of TiAlN that withstands high temperatures and protects against wear and an outer layer of WC/C that helps prevent chips from sticking to the tool.

TiCN
Harder and more wear-resistant than TiN coating.

TiN
Resists wear and allows for faster speeds than bright finish.

CHAMFERS

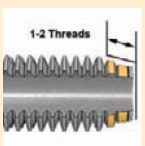
Bottoming
1 to 2 chamfered threads in front of the tap. Used for threading near the bottom of blind holes.

Modified Bottoming
2.5 to 3 chamfered threads in front of the tap. Used primarily in blind holes.

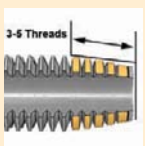
Semi-Bottoming
2 to 2.5 chamfered threads in front of the tap. Used primarily in blind holes.

Plug
3 to 5 chamfered threads at the front of the tap. Used in through holes and blind holes with adequate space for chips to accumulate in front of the tap.

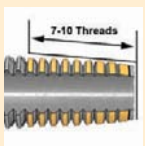
Taper
7 to 10 chamfered threads at the front of the tap. Used in through holes.



Bottoming Thread Chamfer



Plug Chamfer Thread



Taper Chamfer Type

PITCH DIAMETER LIMITS
A letter followed by a number which shows the tolerance of pitch diameter over the basic pitch diameter.

PITCH DIAMETER LIMITS	
H1	+0.0005"
H2	+0.0005" to +0.0010"
H3	+0.0010" to +0.0015"
H4	+0.0015" to +0.0020"
H5	+0.0020" to +0.0025"
H6	+0.0025" to +0.0030"
H7	+0.0030" to +0.0035"

HAND AND SPIRAL POINT TAPS - INCH
Drill Size Representation for Approx. 70-75% Thead Height

Tap Size & Pitch	Pitch Series	Drill Size	Decimal Equivalent
Machine Screw Threads			
0-80	NF	3/64	0.0469
1-64	NC	53	0.0595
1-72	NF	53	0.0595
2-56	NC	50	0.0700
2-64	NF	50	0.0700
3-48	NC	47	0.0785
3-56	NF	46	0.0810
4-40	NC-UNC	43	0.0890
4-48	NF	42	0.0935
5-40	NC	38	0.1015
5-44	NF	37	0.1040
6-32	NC-UNC	36	0.1065
6-40	NF	33	0.1130
8-32	NC-UNC	29	0.1360
8-36	NF	29	0.1360
10-24	NC-UNC	26	0.1470
10-32	NF-UNF	21	0.1590
12-24	NC	16	0.1770
12-28	NF-UNF	15	0.180
Tap Size & Pitch		**Drill Size**	**Decimal Equivalent**
National & Unified Coarse Threads			
1/4-20		7	0.2010
5/16-18		F	0.2570
3/8-16		5/16	0.3125
7/16-14		U	0.3680
1/2-13		27/64	0.4219
9/16-12		31/64	0.4844
5/8-11		17/32	0.5312
3/4-10		21/32	0.6562
7/8-9		49/64	0.7656
1-8		7/8	0.8750
1 1/8-7		63/64	0.9844
1 1/4-7		1 1/64	1.1094
1 3/8-6		1 1/32	1.2188
1 1/2-6		1 11/32	1.3438
1 3/4-5		1 9/16	1.5630
2- 4 1/2		1 25/32	1.7810
National & Unified Fine Threads			
1/4-28		3	0.2130
5/16-24		I	0.2720
3/8-24		Q	0.3320
7/16-20		25/64	0.3906
1/2-20		29/64	0.4531
9/16-18		33/64	0.5156
5/8-18		37/64	0.5781
3/4-16		11/16	0.6875
7/8-14		13/16	0.8125
1-12		59/64	0.9219
1 1/8-12		1 3/64	1.0469
1 1/4-12		1 11/64	1.1719
1 3/8-12		1 19/64	1.2969
1 1/2-12		1 27/64	1.4219
National Special			
1-14		15/16	0.9380

HAND AND SPIRAL POINT TAPS - METRIC
Drill Size Representation for Approx. 70-75% Thead Height

Tap Size & Pitch	Drill Size	Decimal Equivalent
M1.6 x 0.35	1.25	0.0492
M1.8 x 0.35	1.45	0.0571
M2 x 0.40	1.6	0.0630
M2.2 x 0.45	1.75	0.0689
M2.5 x 0.45	2.05	0.0807
M3 x 0.50	2.5	0.0984
M3.5 x 0.60	2.9	0.1142
M4 x 0.70	3.3	0.1299
M4.5 x 0.75	3.7	0.1457
M5 x 0.80	4.2	0.1654
M6 x 1.00	5	0.1969
M7 x 1.00	6	0.2362
M8 x 1.25	6.7	0.2638
M8 x 1.00	7	0.2756
M10 x 1.50	8.5	0.3346
M10 x 1.25	8.7	0.3425
M12 x 1.75	10.2	0.4016
M12 x 1.25	10.8	0.4252
M14 x 2.00	12	0.4724
M16 x 2.00	14	0.5512
M16 x 1.50	14.5	0.5709
M18 x 2.50	15.5	0.6102
M18 x 1.50	16.5	0.6496
M20 x 2.50	17.5	0.6890
M20 x 1.50	18.5	0.7283
M22 x 2.50	19.5	0.7677
M22 x 1.50	20.5	0.8071
M24 x 3.00	21	0.8268
M24 x 2.00	22	0.8661
M27 x 3.00	24	0.9449
M27 x 2.00	25	0.9843
M30 x 3.50	26.5	1.0433
M30 x 2.00	28	1.1024
M33 x 3.50	29.5	1.1614
M33 x 2.00	31	1.2205
M36 x 4.00	32	1.2598
M36 x 3.00	33	1.2992
M39 x 4.00	35	1.3780
M39 x 3.00	36	1.4173

PIPE TAPS

Nominal Size	NPT & NPTF Without Reamer	NPT & NPTF With Reamer	NPSM	NPSC	NPSF
1/16-27	C (0.242)	A (0.234)	—	1/4	D (0.246)
1/8-27	Q (0.332)	21/64	T (0.358)	Q (0.332)	R (0.339)
1/4-18	7/16	27/64	15/32	7/16	7/16
3/8-18	9/16	9/16	0.630 (special)	37/64	37/64
1/2-14	45/64	11/16	19.0mm	23/32	0.705 (special)
3/4-14	29/32	57/64	61/64	59/64	59/64
1 - 11 1/2	1 9/64	1 1/8	1 13/64	1 5/32	1 5/32
1 1/4 - 11 1/2	1 31/64	1 15/32	1 35/64	1 1/2	—
1 1/2 - 11 1/2	1 23/32	1 45/64	1 25/32	1 47/64	—
2 - 11 1/2	2 3/16	2 11/64	2 1/4	2 1/4	—

Scan. Order. Done.
Details on page A1.

Additional tap sizes, materials, and coatings are available on Grainger.com®.



High-Speed Steel Drill Bit & Carbon Steel Tap Set
No. 5PXJ0

WESTWARD IRWIN HANSON CLE-LINE. CL Chicago-Latrobe

Drill Bit and Tap Sets

Sets include multiple drill bits and taps. The drill bits are used to make holes, and the taps are used to create internal threads in the holes.

No. of Pieces	Smallest Thread Size	Largest Thread Size	Smallest Drill Bit Dia.	Largest Drill Bit Dia.	Tap Sizes Included	Brand	Item No.
High-Speed Steel Drill Bit & Carbon Steel Tap Sets							
13	#4	¼"	#43	#7	#4-40, #6-32, #8-32, #10-24, #10-32, ¼ in-20	Westward	**5PXJ0**
13	#4-40	¼"-20	#43	#16	#10-24, #10-32, #4-40, #6-32, #8-32, ¼"-20	Irwin Hanson	**19T156**
13	#6-32	¼"-20	1/64 in	#16	#6-32, #8-32, #10-24, #10-32, #12-24, ¼"-20	Irwin Hanson	**19T155**
High-Speed Steel Drill Bit & High-Speed Steel Tap Sets							
2	¼-20"	¼-20"	#7	#7	¼"-20	Cle-Line	**445M78** *
18	#6	½"	#36	27/64 in	#6-32, #8-32, #10-24, #10-32, ¼"-20, 5/16"-18, 3/8"-16, 7/16"-14, ½"-13"	Westward	**5PXJ3**
18	#6-32	½"-13	#36	27/64 in	#10-24, #10-32, #6-32, #8-32, ¼"-20, 3/8"-16, 5/16"-18, 7/16"-14. ½"-13	Chicago-Latrobe	**4ALK1**
18	#6-32	½"-13	#36	27/64 in	#10-24, #10-32, #6-32, #8-32, ¼"-20, 3/8"-16, 5/16"-18, 7/16"-14. ½"-13	Chicago-Latrobe	**1N642** *
18	M2.5	M12	2.05mm	10.20mm	M2.5x0.45, M3x0.5, M3.5x0.6, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75	Westward	**5PXJ4**
20	#4-40	½"-13	#44	23/64 in	#10-24, #4-40, #5-40, #6-32, #8-32, ¼"-20, 3/8"-16, 5/16"-18, 7/16"-14. ½"-13	Chicago-Latrobe	**6ZKF9**
36	#6	½"	#36	29/64 in	#6-32, #6-40, #8-32, #8-36, #10-24, #10-32, #12-24, #12-28, ¼"-20, ¼"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, ½"-13, ½"-20"	Westward	**5PXJ5**
36	#6-32	½"-20	#36	39/64 in	#10-24, #10-32, #6-32, #8-32, ¼"-20, 3/8"-16, 5/16"-18, 7/16"-14. ½"-13	Chicago-Latrobe	**1P273**

**Spiral Point*

Die Sets

- Right-hand thread direction

GREENFIELD THREADING CLE-LINE. WESTWARD CLEVELAND

Die sets contain multiple carbon steel hex dies for restoring damaged or rusted external threads on metal and plastic parts in general purpose threading tasks. The dies are turned with a die wrench or a standard wrench, and each die can repair one size of thread.



Carbon Steel Hex Die Sets
UNC
No. 50CA70

No. of Dies in Set	Smallest Thread Size	Largest Thread Size	Thread Sizes Included	Brand	Item No.
Carbon Steel Hex Die Sets					
Metric					
7	M6x1.00	M20x2.5	M6x1, M8x1.25, M10x1.5, M12x1.75, M14x2, M16x2, M20x2.5	Greenfield Threading	**53PT23**
7	M6x1.00	M20x2.50	M6X1, M8X1.25, M10X1.5, M12X1.75, M14X2, M16X2, M20X2.5	Cle-Line	**50CA77**
NC, NF					
16	¼"-20	1"-14	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Westward	**10M991**
UNC					
8	¼"-28	9/16"-18	¼-28, 5/16-24, ⅜-24, 7/16-20,1/2-20, 9/16-18, ⅝-18, ¾-16	Cle-Line	**50CA71**
8	¼"-20	⅝ in	¼"-20, ¾"-10, ⅜"-16, 5/16"-18, ⅝"-11, 7/16"-14,1/2"-13, 9/16"-12	Cle-Line	**50CA70**
10	¼"-20	¾"-10	¼"-20, 5/16"-18, ⅜"-16, 7/16"-14, ½"-13, 9/16"-12, ⅝"-11, ¾"-10	Greenfield Threading	**53PT25**
10	¼"-28	¾"-16	¼"-28, 9/16"-24, ⅜"-24, 7/16"-20, ½"-20, 9/16"-18, ⅝"-18, ¾"-16	Greenfield Threading	**53PT22**
10	¼"-20	1"-8	¼"-20, 5/16"-18, ⅜"-16, 7/16"-14, ½"-13, ¼"-28, 6/16"-24, ⅜"-24, 7/16"-20, ½"-20	Greenfield Threading	**53PT24**
10	¼"-20	1"-8	1"-8, ¼"-20, ¾"-10, ⅜"-16, 5/16"-18, ⅝"-11, 7/16"-14,1/2"-13, ⅞"-9, 9/16"-12	Cle-Line	**50CA75**
16	¼"-20	¾"-16	¼"-20, 5/16"-18, ⅜"-16, 7/16"-14, ½"-13, 9/16"-12, ⅝"-11, ¾"-10, ¼"-28, 5/16"-24, ⅜"-24, 7/16"-20, ½"-20, 9/16"-18, ⅝"-18, ¾"-16	Westward	**10M990**
20	¼"-20	1"-8	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Greenfield Threading	**53PT21**
UNC, UNF					
10	¼"-20	½"-20	¼"-20, 5/16"-18, ⅜"-16, 7/16"-14, ½"-13, ¼"-28, 5/16"-24, ⅜"-24, 7/16"-20, ½"-20	Cle-Line	**50AT18**
20	¼"-20	1"-8	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Cleveland	**20X693**



High-Speed Steel Drill, Carbon Steel Tap & Carbon Steel Die Set
No. 2ETL5

Drill Bit, Tap and Die Sets

IRWIN HANSON GREENFIELD THREADING

Drill bit, tap, and die sets include multiple drill bits, taps, and dies. The drill bits make holes, the taps create or repair internal threads in holes, and the dies create or repair external threads on parts that will be screwed into tapped holes.

No. of Pieces	Number Of Drills	Number Of Taps	No. of Dies in Set	Drill Bit Dia. Included	Die Thread Sizes Included	Brand	Item No.
High-Speed Steel Drill, Carbon Steel Tap & Carbon Steel Die Sets							
Straight Flute Tap Type & Hex Die Shape							
117	36	34	34	#0, #16, #19, #20, #21, #25, #29, #3, #30, #36, #39, #43, #7, #9, ¼", 13/32", 19/64", 21/64", 25/64", 27/64", 29/64", ⅜", 5/16", 5/32", 5/64", 7/64", B, F, H, J, I, Q, R, S, U, Z	#10-24 NC, #10-32 NF, #12-24 NC, #4-40 NC, #6- 32 NC, #8-32 NC, ½"-13 NC, ½"-20 NF, ¼"-20 NC, ¼"-28 NF, ⅛"-27 NPT, ⅛"-28 BSP, ⅜"-16 NC, ⅜"-24 NF, 5/16"-18 NC, 5/16"-24 NF, 7/16"-14 NC, 7/16"-24 NF, M10x1.25, M10x1.50, M11x1.50, M12x1.50, M12x1.75, M3x0.50, M4x0.70, M4x0.75, M5x0.80, M5x0.90, M6m-1.00, M7x1.00, M8x1.00, M8x1.25, M9x1.00, M9x1.25	Irwin Hanson	**2ETL5**
High-Speed Steel Drill, High-Speed Steel Tap & Carbon Steel Die Sets							
Straight Flute Tap Type & Round Die Shape							
15	5	5	5	10.2mm, 5mm, 6.7mm, 6mm, 8.5mm	M6x1.00, M7x1.00, M8x1.25, M10x1.50, M12x1.75	Greenfield Threading	**445M51**



No. 407C44

Multiple-Size Tap Sets

GREENFIELD THREADING

Include multiple taps in a range of thread sizes for creating internal threads in holes of various sizes

No. of Pieces	Thread Standard	Thread Sizes Included	Thread Limit	Brand	Item No.
4	UNC	#6-32, #8-32, #10-24, #12-24	H2	Speedtaps	**40LR30**
4	UNC	M6x1.00, M8x1.25, M10x1.50, M12x1.75	H2	Speedtaps	**40LR24**
10	UNC, UNF	¼"-20, ¼"-28, 5/16"-18, 5/16"-24, ⅜"-16, ⅜"-24, 7/16"-14, 7/16"-20, ½"-20, ½"-13	H3	Greenfield Threading	**407C44**

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

For more information on taps, see page 2261.

WIDIA GTD · CLEVELAND · WESTWARD · GREENFIELD THREADING · CLE-LINE.

Three-Piece Tap Kits

Each kit contains three straight-flute taps with the same thread size, thread length, and overall length but different chamfer types. One tap has a taper chamfer, one tap has a bottoming chamfer, and one tap has a plug chamfer.

Tap Thread Size	Thread Length	Overall Length	Pitch Diameter Limit	Brand	Item No.
Left-Hand, Bright Finish, High-Speed Steel					
4 Flute, UNC					
#8-32	3/4 in	2 1/8 in	H3	Greenfield Threading	**407D08**
1/4"-20	1	2 1/2 in	H3	Widia GTD	**3FMK1**
5/16"-18	1 1/8 in	2 3/4 in	H3	Widia GTD	**3FMK6**
3/8"-16	1 1/4 in	3 in	H3	Widia GTD	**3FML5**
1/2"-13	1 21/32 in	3 3/8 in	H3	Widia GTD	**3FMP3**
4 Flute, UNF					
#10-32	7/8 in	2 3/8 in	H3	Greenfield Threading	**407D09**
1/4"-28	5/8 in	2 1/2 in	H3	Greenfield Threading	**53PV26**
5/16"-24	1 1/8 in	2 3/4 in	H3	Widia GTD	**3FML1**
3/8"-24	1 1/4 in	3 in	H3	Widia GTD	**3FML9**
1/2"-20	1 21/32 in	3 3/8 in	H3	Widia GTD	**3FMP7**
Right Hand, Bright Finish, High-Speed Steel					
2 Flute, UNC					
#1-64	3/8 in	1 11/16 in	H1	Widia GTD	**53ML40**
#2-56	7/16 in	1 5/8 in	H2	Cle-Line	**407D42**
2 Flute, UNF					
#0-80	5/16 in	1 5/8 in	H1	Widia GTD	**53ML46**
#1-72	3/8 in	1 11/16 in	H1	Widia GTD	**53ML35**
3 Flute, Metric					
M3-0.50	7.87 mm	49.28 mm	D3	Cleveland	**435L52**
3 Flute, Metric Coarse					
M2-0.40	7/16 in	1 3/4 in	D3	Widia GTD	**1C938**
M3-0.50	5/8 in	1 15/16 in	D3	Widia GTD	**1C948**
3 Flute, Metric Fine					
M2.5-0.45	1/2 in	1 13/16 in	D3	Greenfield Threading	**53PV94**
M2-0.40	7/16 in	1 3/4 in	D3	Greenfield Threading	**53PW26**
M3.5-0.60	3/8 in	2 in	D4	Greenfield Threading	**53PV93**
M3-0.50	5/16 in	1 15/16 in	D3	Greenfield Threading	**53PW25**
3 Flute, UNC					
#2-56	7/16 in	1 3/4 in	H2	Cleveland	**435L23**
#2-56	7/16 in	1 3/4 in	H2	Greenfield Threading	**15J750**
#2-56	7/16 in	1 3/4 in	H2	Westward	**5PXJ6**
#2-56	7/16 in	1 3/4 in	H2	Widia GTD	**4AHL1**
#3-48	1/2 in	1 13/64 in	H2	Cle-Line	**407D43**
#3-48	1/2 in	1 13/16 in	H2	Cleveland	**435L30**
#3-48	1/2 in	1 13/16 in	H2	Greenfield Threading	**15J751**
#3-48	1/2 in	1 13/16 in	H2	Westward	**5PXJ7**
#3-48	1/2 in	1 13/16 in	H2	Widia GTD	**4AHL2**
#4-40	19/64 in	1 7/8 in	H2	Cleveland	**435L44**
#4-40	9/16 in	1 7/8 in	—	Widia GTD	**4GP74**
#4-40	9/16 in	1 7/8 in	H2	Greenfield Threading	**15J753**
#4-40	9/16 in	1 7/8 in	H2	Widia GTD	**4AHL6**
#4-40	5/8 in	1 7/8 in	H2	Westward	**5PXJ8**
#5-40	19/64 in	1 15/16 in	H2	Cleveland	**435L58**
#5-40	5/8 in	1 15/16 in	—	Widia GTD	**4GP79**
#5-40	5/8 in	1 15/16 in	H2	Greenfield Threading	**15J755**
#5-40	5/8 in	1 15/16 in	H2	Widia GTD	**4AHM0**
#6-32	3/8 in	2 in	H3	Cleveland	**435L77**
#6-32	11/16 in	2 in	H1	Widia GTD	**53MN85**
#6-32	11/16 in	2 in	H2	Cle-Line	**407D47**
#6-32	11/16 in	2 in	H2	Greenfield Threading	**15J757**
#6-32	11/16 in	2 in	H3	Westward	**5PXJ9**
#6-32	11/16 in	2 in	H3	Widia GTD	**4AHM4**
3 Flute, UNF					
#2-64	7/16 in	1 3/4 in	H2	Widia GTD	**53ML26**
#3-56	1/2 in	1 13/64 in	H2	Cle-Line	**407D44**
#3-56	1/2 in	1 13/16 in	H2	Cleveland	**435L34**
#3-56	1/2 in	1 13/16 in	H2	Greenfield Threading	**15J752**
#3-56	1/2 in	1 13/16 in	H2	Widia GTD	**53ML20**
#4-48	19/64 in	1 7/8 in	H2	Cleveland	**435L48**
#4-48	9/16 in	1 7/8 in	H2	Cle-Line	**407D45**
#4-48	9/16 in	1 7/8 in	H2	Greenfield Threading	**15J754**
#4-48	9/16 in	1 7/8 in	H2	Widia GTD	**53ML14**
#5-44	19/64 in	1 15/16 in	H2	Cleveland	**435L62**
#5-44	5/8 in	1 15/16 in	H2	Cle-Line	**407D46**
#5-44	5/8 in	1 15/16 in	H2	Greenfield Threading	**15J756**
#5-44	5/8 in	1 15/16 in	H2	Widia GTD	**53ML10**
#6-40	11/16 in	2 in	H2	Cle-Line	**407D48**
#6-40	11/16 in	2 in	H2	Greenfield Threading	**15J759**
#6-40	11/16 in	2 in	H2	Widia GTD	**53ML03**
4 Flute, Metric					
M10-1.50	31.75 mm	74.61 mm	D6	Cleveland	**435N40**
M12-1.75	42.07 mm	85.72 mm	D6	Cleveland	**435N59**
M14-2.00	42.07 mm	91.28 mm	D7	Cleveland	**435N81**
M16-2.00	46.04 mm	96.84 mm	D7	Cleveland	**435P07**
M20-2.50	50.80 mm	13.51 mm	D7	Cleveland	**435P34**
M4-0.70	19.05 mm	54.10 mm	D4	Cleveland	**435L85**
M5-0.80	12.70 mm	60.45 mm	D4	Cleveland	**435M42**
M6-1.00	16.00 mm	63.50 mm	D5	Cleveland	**435M54**
M8-1.25	17.53 mm	69.09 mm	D5	Cleveland	**435N14**



Bright Finish High-Speed Steel No. 435P79

Tap Thread Size	Thread Length	Overall Length	Pitch Diameter Limit	Brand	Item No.
4 Flute, Metric Coarse					
M10-1.50	3/4 in	2 15/16 in	D6	Greenfield Threading	**53PW01**
M10-1.50	1 1/4 in	2 15/16 in	D6	Westward	**5TWA6**
M12-1.75	15/16 in	3 3/8 in	D6	Greenfield Threading	**53PV99**
M12-1.75	1 21/32 in	3 3/8 in	D6	Westward	**5TWA7**
M14-2.00	1	3 19/32 in	D7	Greenfield Threading	**53PV98**
M16-2.00	1	3 13/16 in	D7	Greenfield Threading	**53PV97**
M16-2.00	1 13/16 in	3 13/16 in	D7	Westward	**5TWA9**
M18-2.50	1 5/64 in	4 1/32 in	D6	Greenfield Threading	**53PV96**
M20-2.50	1 1/4 in	4 15/32 in	D7	Greenfield Threading	**53PV95**
M20-2.50	2 in	4 15/32 in	D7	Westward	**5TWC1**
M24-3.00	2 7/32 in	4 29/32 in	D8	Westward	**5TWC2**
M4-0.70	3/4 in	2 1/8 in	D4	Westward	**5TWA1**
M4-0.70	3/4 in	2 1/8 in	D4	Widia GTD	**1C956**
M5-0.80	7/8 in	2 3/8 in	D4	Westward	**5TWA2**
M5-0.80	7/8 in	2 3/8 in	D4	Widia GTD	**1C970**
M6-1.00	1	2 1/2 in	D5	Westward	**5TWA3**
M6-1.00	1	2 1/2 in	D5	Widia GTD	**1C978**
M7-1.00	1 1/8 in	2 23/32 in	D5	Widia GTD	**1C998**
M8-1.25	1 1/8 in	2 23/32 in	D5	Westward	**5TWA5**
4 Flute, Metric Fine					
M4.5-0.75	1/2 in	2 3/8 in	D4	Greenfield Threading	**53PV92**
M4-0.70	3/8 in	2 1/8 in	D4	Greenfield Threading	**53PW24**
M5-0.80	1/2 in	2 3/8 in	D4	Greenfield Threading	**53PW23**
M6-1.00	5/8 in	2 1/2 in	D5	Greenfield Threading	**53PW22**
M8-1.25	11/16 in	2 23/32 in	D5	Greenfield Threading	**53PW21**
4 Flute, UNC					
#10-24	1/2 in	2 3/8 in	H3	Cleveland	**435M25**
#10-24	7/8 in	2 3/8 in	—	Widia GTD	**4GP93**
#10-24	7/8 in	2 3/8 in	H2	Cle-Line	**407D51**
#10-24	7/8 in	2 3/8 in	H2	Greenfield Threading	**15J763**
#10-24	7/8 in	2 3/8 in	H2	Widia GTD	**53MK78**
#10-24	7/8 in	2 3/8 in	H3	Greenfield Threading	**15J764**
#10-24	7/8 in	2 3/8 in	H3	Westward	**5PXK1**
#12-24	1/2 in	2 3/8 in	H3	Cleveland	**435M46**
#12-24	15/16 in	2 3/8 in	—	Widia GTD	**4GR02**
#12-24	15/16 in	2 3/8 in	H3	Greenfield Threading	**15J767**
#12-24	15/16 in	2 3/8 in	H3	Widia GTD	**53MK54**
#8-32	3/8 in	2 1/8 in	H2	Cleveland	**435L94**
#8-32	3/8 in	2 1/8 in	H3	Cleveland	**435M03**
#8-32	3/4 in	2 1/8 in	—	Widia GTD	**4GP88**
#8-32	3/4 in	2 1/8 in	H2	Cle-Line	**407D49**
#8-32	3/4 in	2 1/8 in	H2	Greenfield Threading	**15J760**
#8-32	3/4 in	2 1/8 in	H2	Widia GTD	**53MK95**
#8-32	3/4 in	2 1/8 in	H3	Greenfield Threading	**15J761**
#8-32	3/4 in	2 1/8 in	H3	Westward	**5PXK0**
#8-32	3/4 in	2 1/8 in	H3	Widia GTD	**4AHM8**
1/4"-20	5/8 in	2 1/2 in	H1	Cleveland	**435M58**
1/4"-20	5/8 in	2 1/2 in	H2	Cleveland	**435M63**
1/4"-20	5/8 in	2 1/2 in	H3	Cleveland	**435M71**
1/4"-20	1	2 1/2 in	—	Widia GTD	**4GR11**
1/4"-20	1	2 1/2 in	H1	Greenfield Threading	**15J769**
1/4"-20	1	2 1/2 in	H1	Widia GTD	**53MM44**
1/4"-20	1	2 1/2 in	H2	Greenfield Threading	**15J770**
1/4"-20	1	2 1/2 in	H2	Widia GTD	**53MM40**
1/4"-20	1	2 1/2 in	H3	Greenfield Threading	**15J771**
1/4"-20	1	2 1/2 in	H3	Westward	**5PXK3**
5/16"-18	11/16 in	2 23/32 in	H3	Cleveland	**435M98**
5/16"-18	1 1/8 in	2 23/32 in	—	Widia GTD	**4GR19**
5/16"-18	1 1/8 in	2 23/32 in	H3	Greenfield Threading	**15J773**
5/16"-18	1 1/8 in	2 23/32 in	H3	Westward	**5PXK5**
5/16"-18	1 1/8 in	2 23/32 in	H3	Widia GTD	**4AHP9**
3/8"-16	3/4 in	2 15/16 in	H3	Cleveland	**435N25**
3/8"-16	1 1/4 in	2 15/16 in	—	Widia GTD	**4GR27**
3/8"-16	1 1/4 in	2 15/16 in	H3	Greenfield Threading	**15J775**
3/8"-16	1 1/4 in	2 15/16 in	H3	Westward	**5PXK7**
3/8"-16	1 1/4 in	2 15/16 in	H3	Widia GTD	**4AHT7**
7/16"-14	7/8 in	3 5/32 in	H3	Cleveland	**435N44**
7/16"-14	1 7/16 in	3 5/32 in	—	Widia GTD	**4GR35**
7/16"-14	1 7/16 in	3 5/32 in	H3	Greenfield Threading	**15J777**
7/16"-14	1 7/16 in	3 5/32 in	H3	Westward	**5PXK9**
7/16"-14	1 7/16 in	3 5/32 in	H3	Widia GTD	**4AHW5**
1/2"-13	15/16 in	3 3/8 in	H3	Cleveland	**435N66**
1/2"-13	1 21/32 in	3 3/8 in	—	Widia GTD	**4GR43**
1/2"-13	1 21/32 in	3 3/8 in	H3	Greenfield Threading	**15J779**
1/2"-13	1 21/32 in	3 3/8 in	H3	Westward	**5PXL1**

CONTINUED

CONTINUED

WIDIA GTD · CLEVELAND · WESTWARD · GREENFIELD THREADING · CLE-LINE.

Three-Piece Tap Kits

Tap Thread Size	Thread Length	Overall Length	Pitch Diameter Limit	Brand	Item No.
Right Hand, Bright Finish, High-Speed Steel (Cont.)					
4 Flute, UNC (Cont.)					
9/16"-12	1 21/32 in	3 19/32 in	—	Widia GTD	4GR51
9/16"-12	1	3 19/32 in	H3	Cleveland	435N85
9/16"-12	1 21/32 in	3 19/32 in	H3	Greenfield Threading	15J781
9/16"-12	1 21/32 in	3 19/32 in	H3	Westward	5PXL3
9/16"-12	1 21/32 in	3 19/32 in	H3	Widia GTD	4AKC1
5/8"-11	1 13/16 in	3 13/16 in	—	Widia GTD	4GR59
5/8"-11	1 5/64 in	3 13/16 in	H3	Cleveland	435N93
5/8"-11	1 13/16 in	3 13/16 in	H3	Greenfield Threading	15J783
5/8"-11	1 13/16 in	3 13/16 in	H3	Westward	5PXL5
5/8"-11	1 13/16 in	3 13/16 in	H3	Widia GTD	4AKC9
1 1/16"-11	1 13/16 in	4 1/32 in	H3	Greenfield Threading	15J785
3/4"-10	1 7/32 in	4 1/4 in	H3	Cleveland	435P24
3/4"-10	2 in	4 1/4 in	—	Widia GTD	4GR67
3/4"-10	2 in	4 1/4 in	H3	Greenfield Threading	15J787
3/4"-10	2 in	4 1/4 in	H3	Westward	5TVY7
3/4"-10	2 in	4 1/4 in	H3	Widia GTD	4AKF7
7/8"-9	2 7/32 in	4 11/16 in	—	Widia GTD	4GR75
7/8"-9	2 7/32 in	4 11/16 in	H4	Cleveland	435P38
7/8"-9	2 7/32 in	4 11/16 in	H4	Greenfield Threading	15J789
7/8"-9	2 7/32 in	4 11/16 in	H4	Westward	5TVY9
7/8"-9	2 7/32 in	4 11/16 in	H4	Widia GTD	1C917
1"-8	2 1/2 in	5 1/8 in	—	Widia GTD	4GR83
1"-8	2 1/2 in	5 1/8 in	H4	Cleveland	435P49
1"-8	2 1/2 in	5 1/8 in	H4	Greenfield Threading	15J791
1"-8	2 1/2 in	5 1/8 in	H4	Westward	5TVZ1
1"-8	2 1/2 in	5 1/8 in	H4	Widia GTD	1C929
1 1/8"-7	2 9/16 in	5 7/16 in	2B	Widia GTD	53MN55
1 1/8"-7	2 9/16 in	5 7/16 in	H4	Westward	5TVZ3
1 1/8"-7	2 9/16 in	5 7/16 in	H4	Widia GTD	4GZ87
1 1/4"-7	2 9/16 in	5 3/4 in	H4	Westward	5TVZ5
1 1/4"-7	2 9/16 in	5 3/4 in	H4	Widia GTD	4GZ95
1 3/8"-6	3 in	6 1/16 in	H4	Widia GTD	53ML55
1 1/2 "-6	3 in	6 3/8 in	2B	Widia GTD	53MN36
1 1/2 "-6	3 in	6 3/8 in	H4	Widia GTD	4HF12
4 Flute, UNF					
#10-32	1/2 in	2 3/8 in	H2	Cleveland	435M30
#10-32	1/2 in	2 3/8 in	H3	Cleveland	435M38
#10-32	7/8 in	2 3/8 in	—	Widia GTD	4GP97
#10-32	7/8 in	2 3/8 in	H2	Cle-Line	407D52
#10-32	7/8 in	2 3/8 in	H2	Greenfield Threading	15J765
#10-32	7/8 in	2 3/8 in	H2	Widia GTD	53MK66
#10-32	7/8 in	2 3/8 in	H3	Greenfield Threading	15J766
#10-32	7/8 in	2 3/8 in	H3	Westward	5PXK2
#10-32	7/8 in	2 3/8 in	H3	Widia GTD	4AHN7
#12-28	1/2 in	2 3/8 in	H3	Cleveland	435M50
#12-28	15/16 in	2 3/8 in	H3	Cle-Line	407D53
#12-28	15/16 in	2 3/8 in	H3	Greenfield Threading	15J768
#8-36	3/8 in	2 1/8 in	H2	Cleveland	435M07
#8-36	3/4 in	2 1/8 in	H2	Cle-Line	407D50
#8-36	3/4 in	2 1/8 in	H2	Greenfield Threading	15J762
#8-36	3/4 in	2 1/8 in	H2	Widia GTD	53MK83
1/4"-28	5/8 in	2 1/2 in	H3	Cleveland	435M85
1/4"-28	1	2 1/2 in	—	Widia GTD	4GR15
1/4"-28	1	2 1/2 in	H3	Greenfield Threading	15J772
1/4"-28	1	2 1/2 in	H3	Widia GTD	4AHP5
5/16"-24	1 1/16 in	2 23/32 in	H3	Cleveland	435N08
5/16"-24	1 1/8 in	2 23/32 in	—	Widia GTD	4GR23
5/16"-24	1 1/8 in	2 23/32 in	H3	Greenfield Threading	15J774
5/16"-24	1 1/8 in	2 23/32 in	H3	Widia GTD	4AHT3
3/8"-24	3/4 in	2 15/16 in	H3	Cleveland	435N33
3/8"-24	1 1/4 in	2 15/16 in	—	Widia GTD	4GR31
3/8"-24	1 1/4 in	2 15/16 in	H3	Greenfield Threading	15J776
3/8"-24	1 1/4 in	2 15/16 in	H3	Widia GTD	4AHW1
7/16"-20	7/8 in	3 5/32 in	H3	Cleveland	435N50
7/16"-20	1 7/16 in	3 5/32 in	—	Widia GTD	4GR39
7/16"-20	1 7/16 in	3 5/32 in	H3	Greenfield Threading	15J778
7/16"-20	1 7/16 in	3 5/32 in	H3	Westward	5PXL0
7/16"-20	1 7/16 in	3 5/32 in	H3	Widia GTD	4AHW9
1/2"-20	15/16 in	3 3/8 in	H3	Cleveland	435N73
1/2"-20	1 21/32 in	3 3/8 in	—	Widia GTD	4GR47
1/2"-20	1 21/32 in	3 3/8 in	H3	Greenfield Threading	15J780
1/2"-20	1 21/32 in	3 3/8 in	H3	Westward	5PXL2
1/2"-20	1 21/32 in	3 3/8 in	H3	Widia GTD	4AHX7
9/16"-18	1 21/32 in	3 19/32 in	—	Widia GTD	4GR55
9/16"-18	1	3 19/32 in	H3	Cleveland	435N89
9/16"-18	1 21/32 in	3 19/32 in	H3	Greenfield Threading	15J782
9/16"-18	1 21/32 in	3 19/32 in	H3	Widia GTD	4AKC5
5/8"-18	1 13/16 in	3 13/16 in	—	Widia GTD	4GR63
5/8"-18	1 5/64 in	3 13/16 in	H3	Cleveland	435N99
5/8"-18	1 13/16 in	3 13/16 in	H3	Greenfield Threading	15J784
5/8"-18	1 13/16 in	3 13/16 in	H3	Westward	5TVY6
5/8"-18	1 13/16 in	3 13/16 in	H3	Widia GTD	4AKF3
1 1/16"-16	1 13/16 in	4 1/32 in	H3	Greenfield Threading	15J786
3/4"-16	1 7/32 in	4 1/4 in	H3	Cleveland	435P28
3/4"-16	2 in	4 1/4 in	—	Widia GTD	4GR71
3/4"-16	2 in	4 1/4 in	H3	Greenfield Threading	15J788
3/4"-16	2 in	4 1/4 in	H3	Westward	5TVY8
3/4"-16	2 in	4 1/4 in	H3	Widia GTD	4AKH1
7/8"-14	2 7/32 in	4 11/16 in	2B	Widia GTD	53MN66
7/8"-14	2 7/32 in	4 11/16 in	H4	Cleveland	435P42
7/8"-14	2 7/32 in	4 11/16 in	H4	Greenfield Threading	15J790
7/8"-14	2 7/32 in	4 11/16 in	H4	Westward	5TVZ0
7/8"-14	2 7/32 in	4 11/16 in	H4	Widia GTD	1C923
1"-12	2 1/2 in	5 1/8 in	2B	Widia GTD	53MN63
1"-12	2 1/2 in	5 1/8 in	H4	Widia GTD	4GZ76
1 1/8"-12	2 9/16 in	5 7/16 in	H4	Widia GTD	4GZ91
4 Flute, UNS					
3/16"-24	7/8 in	2 3/8 in	2B	Widia GTD	53MN67
1 1/16"-11	1 13/16 in	4 1/32 in	H3	Cle-Line	407D54
1 1/16"-16	1 13/16 in	4 1/32 in	H3	Cle-Line	407D55
1 1/16"-16	1 5/64 in	4 1/32 in	H3	Cleveland	435P15
1 1/16"-11	1 5/64 in	4 1/32 in	H3	Cleveland	435P11
1 1/16"-11	1 13/16 in	4 1/32 in	H3	Widia GTD	53ML71
1"-14	2 1/2 in	5 1/8 in	2B	Widia GTD	53MN59
1"-14	2 1/2 in	5 1/8 in	H4	Cleveland	435P56
1"-14	2 1/2 in	5 1/8 in	H4	Greenfield Threading	15J792
1"-14	2 1/2 in	5 1/8 in	H4	Widia GTD	53ML60
6 Flute, UNF					
1 1/4"-12	2 9/16 in	5 3/4 in	H4	Widia GTD	4GZ99
1 3/8"-12	3 in	6 1/16 in	H4	Widia GTD	53ML52
1 1/2"-12	3 in	6 3/8 in	H4	Widia GTD	4HF16
Right Hand, TiN-Coated, High-Speed Steel					
3 Flute, Metric					
M2.5-0.45	12.70 mm	46.04 mm	D3	Greenfield Threading	434Y81
M2-0.40	11.11 mm	44.45 mm	D3	Greenfield Threading	434Y80
M3-0.50	7.87 mm	49.28 mm	D3	Greenfield Threading	434Y82
3 Flute, UNC					
#2-56	7/16 in	1 3/4 in	H2	Greenfield Threading	53PW29
#3-48	1/2 in	1 13/16 in	H2	Greenfield Threading	434Y92
#4-40	5/16 in	1 7/8 in	H2	Greenfield Threading	53PW18
#5-40	5/16 in	1 15/16 in	H2	Greenfield Threading	53PW12
#6-32	3/8 in	2 in	H3	Greenfield Threading	53PW10
3 Flute, UNF					
#3-56	1/2 in	1 13/16 in	H2	Greenfield Threading	434Y93
#4-48	5/16 in	1 7/8 in	H2	Greenfield Threading	53PW17
#5-44	5/16 in	1 15/16 in	H2	Greenfield Threading	53PW11
#6-40	3/8 in	2 in	H2	Greenfield Threading	53PW09
4 Flute, Metric					
M10-1.50	19.05 mm	74.68 mm	D6	Greenfield Threading	434Y87
M12-1.75	23.88 mm	85.85 mm	D6	Greenfield Threading	434Y88
M14-2.00	25.40 mm	91.19 mm	D7	Greenfield Threading	434Y89
M16-2.00	25.40 mm	96.77 mm	D7	Greenfield Threading	434Y90
M4-0.70	9.65 mm	54.10 mm	D4	Greenfield Threading	434Y83
M5-0.80	12.70 mm	60.45 mm	D4	Greenfield Threading	434Y84
M6-1.00	16.00 mm	63.50 mm	D5	Greenfield Threading	434Y85
M8-1.25	17.53 mm	69.09 mm	D5	Greenfield Threading	434Y86
4 Flute, UNC					
#10-24	1/2 in	2 3/8 in	H3	Greenfield Threading	53PW32
#12-24	1/2 in	2 3/8 in	H3	Greenfield Threading	53PW30
#8-32	3/8 in	2 1/8 in	H3	Greenfield Threading	53PW04
1/4"-20	5/8 in	2 1/2 in	H3	Greenfield Threading	53PW34
5/16"-18	1 1/16 in	2 23/32 in	H3	Greenfield Threading	53PW16
3/8"-16	3/4 in	2 15/16 in	H3	Greenfield Threading	53PW20
7/16"-14	7/8 in	3 5/32 in	H3	Greenfield Threading	53PW08
1/2"-13	15/16 in	3 3/8 in	H3	Greenfield Threading	53PW36
9/16"-12	1	3 19/32 in	H3	Greenfield Threading	53PW02
5/8"-11	1 5/64 in	3 13/16 in	H3	Greenfield Threading	53PW14
3/4"-10	1 7/32 in	4 1/4 in	H3	Greenfield Threading	53PW28
7/8"-9	2 7/32 in	4 11/16 in	H4	Greenfield Threading	53PW05
1"-8	2 1/2 in	5 1/8 in	H4	Greenfield Threading	53PW37
4 Flute, UNF					
#10-32	1/2 in	2 3/8 in	H3	Greenfield Threading	53PW31
#8-36	3/8 in	2 1/8 in	H2	Greenfield Threading	53PW03
1/4"-28	5/8 in	2 1/2 in	H3	Greenfield Threading	53PW33
5/16"-24	1 1/16 in	2 23/32 in	H3	Greenfield Threading	53PW15
3/8"-24	3/4 in	2 15/16 in	H3	Greenfield Threading	53PW19
7/16"-20	7/8 in	3 5/32 in	H3	Greenfield Threading	53PW07
1/2"-20	15/16 in	3 3/8 in	H3	Greenfield Threading	53PW35
5/8"-18	1 5/64 in	3 13/16 in	H3	Greenfield Threading	53PW13
3/4"-16	1 7/32 in	4 1/4 in	H3	Greenfield Threading	53PW27
7/8"-14	2 7/32 in	4 11/16 in	H4	Greenfield Threading	53PW06

For more information on taps, see page 2261.

IRWIN HANSON. BOSCH
GEARWRENCH® WESTWARD
CLE-LINE. CLEVELAND GREENFIELD THREADING



High-Speed Steel Taps & High-Speed Steel Dies No. 1PZ44

Tap & Die Sets

Sets contain multiple taps and dies for threading tasks. Taps create internal threads in holes, and dies create or repair external threads on parts that will be installed in the holes.

No. of Pieces	Min. Tap Thread Size	Max. Tap Thread Size	Max. Die Thread Size	Brand	Item No.
Carbon Steel Taps & Carbon Steel Die Sets					
Plug, Taper Tap Chamfer & Hex Die Shape					
40	⅛"-27	½"-20, ½"-13	½"-20	Irwin Hanson	**40L827**
40	4–40	½"-20	½"-20	Bosch	**55HY18**
40	⅛"-27	½"-20, ½"-13	½"-20	Irwin Hanson	**40L828**
40	3.00-0.50	12x1.75	M12 x 1.75	Irwin Hanson	**40L830**
40	M3 X 0.50	M12x1.75	M12 X 1.75	Bosch	**55HY19**
41	M3x0.50	M12x1.50, M12x1.75	M12 X 1.75	Irwin Hanson	**8ANC7**
42	#4-40 NC	½"-20 NF	½"-20 NF	Gearwrench	**3KLR5**
42	M3x0.50	M12x1.75	M12x1.75	Gearwrench	**3KLR4**
66	M3x0.50	M24x3.00	M24 x 3.00	Irwin Hanson	**2ETL6**
75	⅛"-27 NPT, ⅛"-28 BSP	½"-20	½"-20 NF	Irwin Hanson	**40L826**
77	3x0.50 NC	12x1.75 NC	M12 x 1.75	Gearwrench	**3KLR3**
114	3x0.50 NC	M18x2.50	M18 x 2.50	Gearwrench	**3KLR6**
116	4-40 UNC	½"-13 UNC, ½"-20 UNF	½"-20 UNF	Irwin Hanson	**40L824**
Plug, Taper Tap Chamfer & Round Die Shape					
39	#4	⅛ in	½"-13	Westward	**1PZ49**
41	¼ in	¾ in	¾"-16	Westward	**1PZ51**
64	#4	1 in	1"-14	Westward	**1PZ53**
110	#4	M18	¾"-16	Westward	**1PZ54**
Plug Tap Chamfer & Hex Die Shape					
12	#10-32 NF	¼"-20 NC	¼"-20 NC	Irwin Hanson	**2ETL2**
24	⅛"-27 NPT	½"-20 NF	½"-20 NF	Irwin Hanson	**5VUC7**
40	⅛"-28 BSP	M12x1.75	M12 x 1.75	Irwin Hanson	**40L829**
41	12-24 NC	½"-13 NC, ½"-20 NF	½"-20 NF	Irwin Hanson	**2ETL3**
53	⅛"-27 NPT	¾"-10 NC, ¾"-16 NF	¾"-16 NF	Irwin Hanson	**9K174**
53	M3x0.50	M18x2.50	M18 x 2.50	Irwin Hanson	**9K175**
75	¼"-20 NC	½"-20 NF	½"- 20 NF	Irwin Hanson	**40L825**
76	#4-40 NC	½"-20 NF	½"-20 NF	Irwin Hanson	**2ETL4**
116	12-24 NC	½"-20	½"-20 NF	Irwin Hanson	**40L823**
Plug Tap Chamfer & Round Die Shape					
12	¼ in	½ in	½"-13	Westward	**1PZ39**
16	¼ in	¾ in	¾"-10	Westward	**1PZ40**
21	¼ in	¾ in	¾"-10	Westward	**1PZ41**
22	¼ in	½ in	½"-20	Westward	**1PZ48**
30	¼ in	¾ in	¾"-16	Westward	**1PZ42**
45	¼ in	1 in	1"-14	Westward	**1PZ43**
High-Speed Steel Taps & Carbon Steel Die Sets					
Plug Tap Chamfer & Round Adjustable Die Shape					
13	¼"-20 NC	½"-13 NC	½"-13 NC	Greenfield Threading	**445M58**
16	M6x1.0	M18 x 2.50	M18 x 2.50	Greenfield Threading	**445M61**
18	#4-40 NC	¼"-20 NC	¼"-20 NC	Greenfield Threading	**53PR87**
23	¼"-20 NC	½"-20 NF	½"-20 NF	Greenfield Threading	**445M59**
44	¼"-20 NC	1"-14 NS	1"-14 NS	Greenfield Threading	**445M62**
45	¼"-20 NC	1"-14 NS	1"-14 NS	Greenfield Threading	**445M60**
Plug Tap Chamfer & Round Die Shape					
10	#12-24 NC	#12-24 NF	#12-24 NF	Greenfield Threading	**445M46**
10	#2-56 NC	#12-24 NF	#12-24 NF	Cle-Line	**50CA41**
13	M6x1.0	M12 x 1.75	M12 x 1.75	Greenfield Threading	**445M50**
13	¼"-20 NC	½"-13 NC	½"-13 NC	Greenfield Threading	**445M53**
13	¼"-20 NC	½"-13 NC	½"-13 NC	Cleveland	**4ALH0**
16	M6X1	M14X2	M16 X 2.00	Cleveland	**4ALF7**
17	#4-40 NC	¼"-20 NC	¼"-20 NC	Cleveland	**4ALF8**
17	#4-40 NC	¼"-20 NC	¼"-20 NC	Greenfield Threading	**445M52**
19	#0-80 NF	#10-24 NF	#10-24 NF	Greenfield Threading	**445M54**
23	#4-40 NC	#12-28 NF	#12-28 NF	Greenfield Threading	**445M47**
23	#4-40 NC	#12-28 NF	#12-28 NF	Cleveland	**4ALF9**
25	⅛"-27 NPT	½"-20 NF	½"-20 NF	Cleveland	**4ALH2**
39	#12-24	½"-13	½"-13 NC	Irwin Hanson	**35T662**
41	⅛"-27	¾"-16	¾"-16	Irwin Hanson	**35T655**
44	¼"-20 NC	1"-12 NF	1"-12 NF	Greenfield Threading	**445M48**
45	¼"-20 NC	1"-14 NS	1"-14 NS	Cleveland	**4ALF6**
Plug Tap Chamfer & Round Fixed Die Shape					
18	#4-40 NC	¼"-20 NC	¼"-20 NC	Cleveland	**4ALF1**
23	¼"-20 NC	1"-8 NC	1"-8 NC	Cleveland	**4ALF3**
23	¼"-20 NC	½"-20 NF	½"-20 NF	Cleveland	**4ALF5**
High-Speed Steel Taps & High-Speed Steel Die Sets					
Plug, Taper Tap Chamfer & Round Die Shape					
39	#4	⅛ in	½"-13	Westward	**1PZ36**
41	¼ in	⅛ in	¾"-16	Westward	**1PZ50**
64	#4	1 in	1"-14	Westward	**1PZ37**
110	#4	M18	¾"-16	Westward	**1PZ38**
Plug Tap Chamfer & Round Die Shape					
12	¼ in	½ in	1"-14	Westward	**1PZ44**
12	¼ in	⅛ in	½"-20	Westward	**1PZ45**
13	M6x1.0	M12 x 1.75	M12 x 1.75	Cle-Line	**445M63**
16	¼ in	¾ in	¾"-10	Westward	**1PZ34**
16	¼ in	¾ in	½"-20	Westward	**1PZ33**
17	M2.5x0.45	M6 x 1.00	M6 x 1.00	Cle-Line	**50AT30**
21	¼ in	¾ in	¾"-10	Westward	**1PZ46**
22	¼ in	½ in	½"-20	Westward	**1PZ47**
30	¼ in	¾ in	¾"-16	Westward	**1PZ35**
45	¼ in	1 in	1"-14	Westward	**1PZ52**



Combination Drill, Tap & Countersink Set No. 6EXL3

GREENLEE. WESTWARD GREENFIELD THREADING DEWALT

Combination Drill, Tap and Countersink Sets

- Right-hand thread direction
- High-speed steel material

These sets contain multiple combination drill-tap-and-countersink tools in a range of sizes. Combination drills, taps, and countersinks make a hole, create threads in the hole, and countersink the top of the hole in one pass.

No. of Pieces	Thread Sizes Included	Finish - Machining	Brand	Item No.
Combination Drill, Tap & Countersink Sets				
6	8"-32, 6"-32, 10"-24, 12"-24, ¼"-20, 10"-32	Bright (Uncoated)	Greenlee	**4GB12**
6	M10x1.5, M8x1.25, M5x0.8, M3x0.5, M6x1, M4x0.7	Bright (Uncoated)	Greenlee	**1ANZ3**
6	#6-32, #8-32, #10-24, #10-32, #12-24, ¼"-20	Bright (Uncoated)	Westward	**6EXL3**
18	#10-24, #10-32, #6-32, #8-32, ¼"-20, ⅜"-16, 5⁄16"-18, 7⁄16"-14, ½"-13	Bright (Uncoated)	Greenfield Threading	**445M40**
18	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5⁄16"-18, 7⁄16"-14	Bright (Uncoated)	Greenfield Threading	**445M42**
18	#10-24, #10-32, #6-32, #8-32, ¼"-20, ⅜"-16, 5⁄16"-18, 7⁄16"-14, ½"-13	TiN	Greenfield Threading	**445M41**
20	#10-24, #8-32, ½"-13, ¼"-20, ⅜"-16, 5⁄16"-18, 7⁄16"-14	Bright (Uncoated)	Greenfield Threading	**445M44**
36	#10-24, #10-32, #12-28, #8-32, ½"-13, ½"-20, ¼"-20, ¼"-28, 1#2-24, ⅜"-16, ⅜"-24, 5⁄16"-18, 5⁄16"-24, 7⁄16"-14, 7⁄16"-20	Bright (Uncoated)	Greenfield Threading	**445M43**
Combination Drill & Tap Sets				
5	8"-32, 10"-24, 12"-24, ¼"-20, 10"-32	Bright (Uncoated)	DeWalt	**49JP52**
6	8"-32, 6"-32, 10"-24, 12"-24, ¼"-20, 10"-32	Bright (Uncoated)	Greenlee	**30HK33**

Thread Size	Overall Length	Brand	Item No.
#10-24	2 3/50 in	Greenlee	**1FAJ9**
#10-24	2 15⁄64 in	DeWalt	**45HE96**
#10-24	2 ¼ in	Westward	**6EXL9**
#10-24	2 21⁄64 in	DeWalt	**49JP46**
#10-32	2 ¼ in	Greenlee	**1FAL1**
#10-32	2 15⁄64 in	DeWalt	**45HE97**
#10-32	2 ¼ in	Westward	**6EXN0**
#10-32	2 21⁄64 in	DeWalt	**49JP47**
#12-24	2 ¼ in	Greenlee	**1FAL2**
#12-24	2 ¼ in	DeWalt	**45HE98**
#12-24	2 ¼ in	Westward	**6EXN1**
#12-24	2 23⁄64 in	DeWalt	**49JP48**
#6-32	2 3/50 in	Greenlee	**1FAL3**
#6-32	2 in	Westward	**6EXL7**
#8-32	2 3/50 in	Greenlee	**1ANV8**
#8-32	2 1⁄16 in	DeWalt	**45HE95**
#8-32	2 5⁄32 in	DeWalt	**49JP45**
#8-32	3 in	Westward	**6EXL8**
¼"-20	2 ¼ in	Greenlee	**1FAJ8**
¼"-20	2 9⁄32 in	DeWalt	**45HE99**
¼"-20	2 ¼ in	Westward	**6EXL5**
¼"-20	2 ⅜ in	DeWalt	**49JP49**
⅜"-16	3 ¼ in	Greenlee	**1ANZ5**
⅜"-16	3 ⅛ in	DeWalt	**45HF01**
⅜"-16	3 7⁄64 in	DeWalt	**49JP50**
⅜"-16	3 ¼ in	Westward	**6EXL6**
5⁄16"-18	3 ¼ in	Greenlee	**1ANZ4**
5⁄16"-18	3 ⅛ in	DeWalt	**45HF02**
5⁄16"-18	3 7⁄64 in	DeWalt	**49JP51**
5⁄16"-18	3 ¼ in	Westward	**6EXL4**
M10x1.5	2 ⅜ in	DeWalt	**49JP56**
M5x0.8	2 21⁄64 in	DeWalt	**49JP53**
M6x1.0	2 21⁄64 in	DeWalt	**49JP54**
M8x1.25	2 23⁄64 in	DeWalt	**49JP55**



No. 45HE96

GREENLEE. DEWALT WESTWARD

Combination Drills, Taps and Countersinks

- Right-hand thread direction
- High-speed steel material
- Bright (uncoated) finish

These combination tools drill a hole and create threads in the hole in one pass. They also create a countersink at the top of the hole that allows a screw to sit flush with the top of the hole when it is screwed into the hole.

Additional tap sizes, materials, and coatings are available on Grainger.com®.

General Purpose Chip-Free Thread-Forming Taps



Black Oxide
Metric Coarse, Semi-Bottoming, Modified Bottoming
No. 427X71

- Right-hand thread direction

General purpose chip-free taps are made from high-speed steel and can create threads in a wide range of materials.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Thread Limit / Class of Fit	Brand	Item No.
Black Oxide						
Metric Coarse, Semi-Bottoming, Modified Bottoming						
M10x1.5	20.00 mm	100.00 mm	8.50 mm	6HX / 6HX	Walter Prototyp	**427X65**
M3.5x0.6	11.00 mm	56.00 mm	2.90 mm	6HX / 6HX	Walter Prototyp	**427X67**
M3x0.5	9.00 mm	56.00 mm	2.50 mm	6HX / 6HX	Walter Prototyp	**427X66**
M4x0.7	12.00 mm	63.00 mm	3.30 mm	6HX / 6HX	Walter Prototyp	**427X68**
M5x0.8	13.00 mm	70.00 mm	4.20 mm	6HX / 6HX	Walter Prototyp	**427X69**
M6x1	15.00 mm	80.00 mm	5.00 mm	6HX / 6HX	Walter Prototyp	**427X70**
M8x1.25	18.00 mm	90.00 mm	H	6HX / 6HX	Walter Prototyp	**427X71**
Bright (Uncoated)						
Metric Coarse, Bottoming						
M10x1.5	1 1/4 in	2 15/16 in	8.50 mm	—	OSG	**6WGJ5**
M12x1.75	1 21/32 in	3 3/8 in	7/16 in	—	OSG	**6WGJ7**
M4x0.7	3/4 in	2 1/8 in	3.30 mm	—	OSG	**6WGH4**
M8x1.25	1 1/8 in	2 23/32 in	H	—	OSG	**6WGJ2**
Metric Coarse, Bottoming, Taper						
M3x0.5	7.95 mm	49.28 mm	2.75mm	D5	Widia GTD	**13X314**
M4x0.7	9.53 mm	54.10 mm	3.65mm	D6	Widia GTD	**13X313**
M6x1	15.88 mm	63.50 mm	5.50mm	D8	Widia GTD	**13X311**
M8x1.25	17.48 mm	69.09 mm	L	D9	Widia GTD	**13X310**
UNC, Bottoming						
#10-24	1/2 in	2 3/8 in	4.27mm	H6 / 2B-3B	Cleveland	**435W13**
#2-56	7/16 in	1 3/4 in	1.73 mm	2B	OSG	**6WGC3**
#2-56	7/16 in	1 3/4 in	1.95mm	H2 / 2B	Cleveland	**435V96**
#4-40	9/16 in	1 7/8 in	2.20 mm	2B	OSG	**6WGC7**
#6-32	3/8 in	2 in	3.10mm	H3	Widia GTD	**2XUA8**
#6-32	3/8 in	2 in	3.10mm	H5 / 2B-3B	Greenfield Threading	**15K001**
#8-32	3/8 in	2 1/8 in	3.75mm	H3 / 2B	Cleveland	**435W07**
1/4"-20	5/8 in	2 1/2 in	5.70mm	H4	Widia GTD	**2XUC6**
1/4"-20	5/8 in	2 1/2 in	5.70mm	H4 / 2B	Cleveland	**435W19**
1/4"-20	5/8 in	2 1/2 in	5.70mm	H6 / 2B	Cleveland	**435W21**
1/4"-20	1 in	2 1/2 in	5.70 mm	2B	OSG	**6WGE1**
5/16"-18	1 1/8 in	2 23/32 in	F	2B	OSG	**6WGE7**
3/8"-16	3/4 in	2 15/16 in	11/32 in	H5	Widia GTD	**2XUD1**
3/8"-16	1 1/4 in	2 15/16 in	5/16 in	2B	OSG	**6WGF3**
7/16"-14	1 7/16 in	3 5/32 in	U	2B	OSG	**6WGF9**
1/2"-20	15/16 in	3 3/8 in	12.05mm	H5	Widia GTD	**2XUD4**
1/2"-13	1 21/32 in	3 3/8 in	27/64 in	2B	OSG	**6WGG5**
5/8"-11	1 1/16 in	3 13/16 in	37/64 in	H7	Widia GTD	**2XUD5**
UNC, Plug						
#10-24	1/2 in	2 3/8 in	4.27mm	H4 / 2B	Greenfield Threading	**15J976**
#4-40	5/16 in	1 7/8 in	—	H3 / 2B	Cleveland	**435V97**
UNC, Plug, Taper						
#4-40	5/16 in	1 7/8 in	2.52mm	H3	Widia GTD	**2XTX7**
#6-32	3/8 in	2 in	3.10mm	H3	Widia GTD	**2XTY1**
5/8"-11	1 1/16 in	3 13/16 in	37/64 in	H7	Widia GTD	**2XUA1**
UNC, UNJC, Bottoming, Taper						
#12-24	1/2 in	2 3/8 in	4.95mm	H4	Widia GTD	**13X406**
#6-32	3/8 in	2 in	3.10mm	H3	Widia GTD	**13X307**
1/4"-20	5/8 in	2 1/2 in	5.70mm	H4	Widia GTD	**13X282**
3/8"-16	3/4 in	2 15/16 in	11/32 in	H7	Widia GTD	**13X265**
1/2"-13	15/16 in	3 3/8 in	11.70mm	H5	Widia GTD	**13X258**
1/2"-13	15/16 in	3 3/8 in	11.70mm	H7	Widia GTD	**13X259**
UNF, Plug, Taper						
#10-32	1/2 in	2 3/8 in	4.40mm	H4	Widia GTD	**2XTY5**
3/8"-24	3/4 in	2 15/16 in	9.00mm	H8	Widia GTD	**2XTZ3**
TiCN						
Metric Coarse, Bottoming, Taper						
M3x0.5	7.95 mm	49.28 mm	2.75mm	D5	Widia GTD	**12E991**
M4x0.7	9.53 mm	54.10 mm	3.65mm	D6	Widia GTD	**12F134**
M5x0.8	12.70 mm	60.45 mm	4.60mm	D7	Widia GTD	**12F132**
M6x1	15.88 mm	63.50 mm	5.50mm	D8	Widia GTD	**12E988**
M8x1.25	17.48 mm	69.09 mm	L	D9	Widia GTD	**12F128**
UNC, Bottoming						
#10-24	7/8 in	2 3/8 in	4.27 mm	2B	OSG	**6WGD7**
#3-48	1/2 in	1 13/16 in	2.00 mm	2B	OSG	**6WGC6**
#4-40	5/16 in	1 7/8 in	2.52mm	H3	Widia GTD	**12F006**
#6-32	3/8 in	2 in	3.10mm	H3	Widia GTD	**12F004**
#6-32	11/16 in	2 in	3.10 mm	2B	OSG	**6WGD1**
#8-32	3/4 in	2 1/8 in	3.40 mm	2B	OSG	**6WGD4**
1/4"-20	5/8 in	2 1/2 in	5.70mm	H4	Widia GTD	**12E997**
UNC, Bottoming, Taper						
#10-24	1/2 in	2 3/8 in	4.27mm	H4	Widia GTD	**12F170**
#6-32	3/8 in	2 in	3.10mm	H5	Widia GTD	**12F184**
3/8"-16	3/4 in	2 15/16 in	11/32 in	H7	Widia GTD	**12F146**
1/2"-13	15/16 in	3 13/16 in	11.70mm	H5	Widia GTD	**12F139**
UNF, Bottoming						
#0-80	5/16 in	1 5/8 in	1.20 mm	2B	OSG	**6WGC2**
#10-32	1/2 in	2 3/8 in	4.40mm	H4	Widia GTD	**12E998**
#10-32	7/8 in	2 3/8 in	4.40 mm	2B	OSG	**6WGE0**
7/16"-20	1 7/16 in	3 5/32 in	9.95 mm	2B	OSG	**6WGG4**

High-Performance Chip-Free Thread-Forming Taps



Multiple Material Tapping, UNF, TiCN, DIN/ANSI
UNF, Plug
No. 54MC84

- Right-hand flute direction

High-performance chip-free taps are harder and more wear-resistant than general purpose chip-free taps. They provide better precision and accuracy than general purpose taps when used in designated materials.

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.
Multiple Material Tapping, Metric Coarse, TiCN, DIN/ANSI						
Metric Coarse, Bottoming						
M1.2x0.25	5.00 mm	40.00 mm	D5 / 6H	Cobalt	OSG	**54MC89**
M16x2	20.00 mm	110.00 mm	D12 / 6H	Cobalt	OSG	**54MD62**
M6x1	10.00 mm	80.00 mm	D8	Cobalt	OSG	**54MD28**
M7x1	12.00 mm	80.00 mm	D8	Cobalt	OSG	**54MD32**
Metric Coarse, Plug						
M12x1.75	17.00 mm	110.00 mm	D11 / 6H	Cobalt	OSG	**54MD55**
M1x0.25	5.00 mm	40.00 mm	D5 / 6H	Cobalt	OSG	**54MC94**
Metric Coarse, Semi-Bottoming, Modified Bottoming						
M16x2	20.00 mm	110.00 mm	D7 / 6H	Cobalt	OSG	**33VU39**
M30x3.5	21.00 mm	180.00 mm	D15	Cobalt	OSG	**54MD91**
M4.5x0.75	9.00 mm	70.00 mm	D4	Cobalt	OSG	**33VU54**
Multiple Material Tapping, UNC, Bright (Uncoated)						
UNC, Plug						
#4-40	1/4 in	1 55/64 in	H3 / 3B	Cobalt	OSG	**2TTY8**
3/8"-16	3/4 in	2 15/16 in	H4	Cobalt	OSG	**33WL44**
9/16"-12	1 in	3 37/64 in	H7 / 3B	Cobalt	OSG	**33WP45**
3/4"-10	1 3/16 in	4 1/4 in	H10 / 2B	Cobalt	OSG	**2TTN3**
3/4"-10	1 3/16 in	4 1/4 in	H12	Cobalt	OSG	**33WY68**
UNC, Semi-Bottoming, Modified Bottoming						
#10-24	1/2 in	2 23/64 in	H10	Cobalt	OSG	**33WH02**
#2-56	3/8 in	1 3/4 in	H5	Cobalt	OSG	**2TTU1**
#6-32	3/8 in	2 in	H3 / 3B	Cobalt	OSG	**2TTZ5**
1/4"-20	5/8 in	2 1/2 in	H2	Cobalt	OSG	**33WH58**
3/8"-16	3/4 in	2 15/16 in	H4	Cobalt	OSG	**33WL28**
1/2"-13	7/8 in	3 3/8 in	H4	Cobalt	OSG	**33WN20**
1/2"-20	7/8 in	3 3/8 in	H10	Cobalt	OSG	**33WX20**
9/16"-12	1 in	3 37/64 in	H6	Cobalt	OSG	**33WP17**
5/8"-11	1 1/16 in	3 13/16 in	H6	Cobalt	OSG	**33WR14**
5/8"-11	1 1/16 in	3 13/16 in	H5	Cobalt	OSG	**33WR10**
3/4"-10	1 3/16 in	4 1/4 in	H6	Cobalt	OSG	**33WT02**
Multiple Material Tapping, UNC, TiCN, DIN/ANSI						
UNC, Bottoming						
1/2"-13	3/4 in	4 21/64 in	H8 / 2B	Cobalt	OSG	**54MC40**
9/16"-12	13/16 in	4 21/64 in	H7 / 3B	Cobalt	OSG	**54MC58**
5/8"-11	7/8 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC51**
UNC, Plug						
5/16"-18	1/2 in	3 17/32 in	H7 / 2B	Cobalt	OSG	**54MC28**
1/2"-13	3/4 in	4 21/64 in	H8 / 2B	Cobalt	OSG	**54MC41**
9/16"-12	13/16 in	4 21/64 in	H7 / 3B	Cobalt	OSG	**54MC59**
5/8"-11	7/8 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC50**
1"-8	1 1/4 in	6 19/64 in	H11 / 2B	Cobalt	OSG	**54MC80**
UNC, Semi-Bottoming, Modified Bottoming						
5/16"-18	1/2 in	3 17/32 in	H5 / 3B	Cobalt	OSG	**33VT67**
1 1/4"-7	13/16 in	7 3/64 in	H13 / 2B	Cobalt	OSG	**54MC71**
Multiple Material Tapping, UNC, TiN						
UNC, Bottoming						
#10-24	1/2 in	2 23/64 in	H6 / 2B	Cobalt	OSG	**33WG39**
#4-40	1/4 in	1 55/64 in	H7	Cobalt	OSG	**33WG51**
1/4"-20	3/8 in	2 1/2 in	H6 / 2B	Cobalt	OSG	**2TTV5**
UNC, Plug						
#6-32	3/8 in	2 in	H10	Cobalt	OSG	**33WG75**
UNC, Semi-Bottoming, Modified Bottoming						
#10-24	1/2 in	2 23/64 in	H7	Cobalt	OSG	**33WE06**
#4-40	1/4 in	1 55/64 in	H3 / 3B	Cobalt	OSG	**2TTP2**
#6-32	3/8 in	2 in	H6	Cobalt	OSG	**4APW4**
#6-32	3/8 in	2 in	H8	Cobalt	OSG	**33WA65**
#8-32	3/8 in	2 1/8 in	H9	Cobalt	OSG	**33WC90**
1/4"-20	5/8 in	2 1/2 in	H7	Cobalt	OSG	**33WH64**
1/4"-20	5/8 in	2 1/2 in	H6 / 2B	Cobalt	OSG	**2TTV8**
5/16"-18	5/8 in	2 23/32 in	H3	Cobalt	OSG	**2TTU7**
5/16"-18	5/8 in	2 23/32 in	H5 / 3B	Cobalt	OSG	**2TTU6**
3/8"-16	3/4 in	2 15/16 in	H6	Cobalt	OSG	**33WL34**
5/8"-11	1 1/16 in	3 13/16 in	H10 / 2B	Cobalt	OSG	**33WX94**
5/8"-11	1 1/16 in	3 13/16 in	H6	Cobalt	OSG	**33WR16**
3/4"-10	1 3/16 in	4 1/4 in	H8	Cobalt	OSG	**33WT12**
Multiple Material Tapping, UNF, TiCN, DIN/ANSI						
UNF, Bottoming						
3/4"-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC83**
UNF, Plug						
3/4"-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC84**
UNF, Semi-Bottoming, Modified Bottoming						
#10-32	1/2 in	2 3/4 in	H4 / 3B	Cobalt	OSG	**33VT58**
Steel Tapping Metric Coarse, Black Oxide						
Metric Coarse, Semi-Bottoming, Modified Bottoming						
M1.2x0.25	5.50 mm	40.00 mm	6HX / 5HX	High Speed Steel	Walter Prototyp	**427X42**
M1.4x0.3	7.00 mm	40.00 mm	6HX / 5HX	High Speed Steel	Walter Prototyp	**427X43**
M1.6x0.35	8.00 mm	40.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X44**
M10x1.5	20.00 mm	100.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X45**
M2.5x0.45	8.00 mm	50.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X47**
M2x0.4	6.00 mm	45.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X46**
M3x0.5	9.00 mm	56.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X48**
M4x0.7	12.00 mm	63.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X49**
M5x0.8	13.00 mm	70.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X50**
M6x1	15.00 mm	80.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X51**
M8x1.25	18.00 mm	90.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X52**

For more information on taps, see page 2261.



Right Hand
No. 60HL04

REGAL CUTTING TOOLS

Acme Taps

- High-speed steel material
- Bright (uncoated) finish
- 4 flutes
- 2G thread limit/class of fit

These taps create trapezoidal Acme threads, which have a 29° thread angle and are stronger than similarly sized square threads. Sometimes called tandem taps, Acme taps are used for threading through holes on parts that allow rotation or transversing (straight-line) movement on equipment that will bear heavy loads, such as jacks, valves, and presses. They are installed in tap holders in rigid setups such as drill presses and milling machines.

Thread Size	Thread Length	Overall Length	Item No.
Left Hand			
1"-5	5¼"	10.1300"	**60HL30**
1⅛"-5	2.5600"	5.4400"	**60HL33**
1⅛"-5	5¼"	10¾"	**60HL35**
1¼"-5	2.5600"	5¾"	**60HL37**
1¼"-5	5¼"	11.1300"	**60HL39**
1⅜"-4	3"	6.0600"	**60HL41**
1⅜"-4	5.8800"	12¼"	**60HL43**
1½"-4	3"	6.3800"	**60HL45**
1½"-4	5.8800"	12.6300"	**60HL47**
Right Hand			
⅜"-12	2.1300"	4.0600"	**60HL04**
½"-10	1.6600"	3.3800"	**60HL05**
½"-10	2.5600"	5"	**60HL07**
⅝"-8	1.8100"	3.8100"	**60HL09**
⅝"-8	3.1900"	6¼"	**60HL11**
¾"-10	2"	4¼"	**60HL22**
¾"-5	2"	4¼"	**60HL13**
¾"-5	2"	4¼"	**60HL14**
¾"-6	2"	4¼"	**60HL15**
¾"-8	2"	4¼"	**60HL19**
¾"-6	4.3100"	7.9400"	**60HL17**



Black Oxide
No. 33YW96

REGAL CUTTING TOOLS

Pulley Taps

- Right-hand thread direction
- High-speed steel material
- 4 flutes
- H3 thread limit

Pulley taps make internal threads in set-screw holes on pulley assemblies, and they each have a long shank that acts as an alignment guide as the tap reaches through a pulley hub to access the holes. The taps can access hard-to-reach holes that a standard tap could not reach, and their shank diameter is roughly equal to their thread diameter.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Brand	Item No.
Black Oxide					
¼"-20	1 in	6 in	#7	OSG	**33PD22**
¼"-20	1 in	8 in	#7	OSG	**33YW96**
5⁄16"-18	1 1⁄8 in	6 in	F	OSG	**33YW97**
5⁄16"-18	1 1⁄8 in	8 in	F	OSG	**33YW98**
⅜"-16	1 ¼ in	6 in	5⁄16 in	OSG	**33YW99**
⅜"-16	1 ¼ in	8 in	5⁄16 in	OSG	**33YX01**
⅜"-16	1 ¼ in	10 in	5⁄16 in	OSG	**33YX02**
7⁄16"-14	1 27⁄64 in	6 in	U	OSG	**33YX03**
7⁄16"-14	1 27⁄64 in	8 in	U	OSG	**33YX04**
½"-13	1 21⁄32 in	6 in	27⁄64 in	OSG	**33YX05**
½"-13	1 21⁄32 in	8 in	27⁄64 in	OSG	**33YX06**
½"-13	1 21⁄32 in	10 in	27⁄64 in	OSG	**33YX07**
½"-13	1 21⁄32 in	12 in	27⁄64 in	OSG	**33YX08**
⅝"-11	1 51⁄64 in	6 in	13.60mm	OSG	**33YX09**
⅝"-11	1 51⁄64 in	8 in	13.60mm	OSG	**33YX10**
⅝"-11	1 51⁄64 in	10 in	13.60mm	OSG	**33YX11**
⅝"-11	1 51⁄64 in	12 in	13.60mm	OSG	**33YX12**
¾"-10	2 in	10 in	16.50mm	OSG	**33YX13**
¾"-10	2 in	12 in	16.50mm	OSG	**33YX14**
Bright (Uncoated)					
5⁄16"-18	1 1⁄8 in	2 23⁄32 in	F	Regal Cutting Tools	**39TA79**
½"-13	1 21⁄32 in	6 in	27⁄64 in	Regal Cutting Tools	**39TA82**

Extension Taps

- Right-hand thread direction

Extension taps have long shanks that let them tap deep or hard-to-reach holes. They create internal threads in holes, and their reduced-diameter shank clears the hole when tapping a hole at a depth that is greater than the taps' thread length.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Item No.
Black Oxide Finish, High-Performance Spiral Point				
UNC, 2 Flute				
#4-40	9⁄32 in	4 in	2.30mm	**2PFH3**
#4-40	9⁄32 in	6 in	2.20mm	**33XW06**
#6-32	23⁄64 in	4 in	#34	**2PFH4**
#6-32	23⁄64 in	6 in	#34	**2PFH5**
#6-32	⅜ in	6 in	#36	**33YH35**
UNC, 3 Flute				
#10-24	31⁄64 in	4 in	#23	**2PFH8**
#10-24	31⁄64 in	6 in	#23	**2PFH1**
#8-32	23⁄64 in	4 in	3.50mm	**2PFH6**
#8-32	23⁄64 in	6 in	3.50mm	**2PFH7**
¼"-20	19⁄32 in	4 in	#5	**2PFK3**
¼"-20	19⁄32 in	6 in	#5	**2PFJ2**
5⁄16"-18	21⁄32 in	6 in	17⁄64 in	**2PFJ4**
⅜"-16	¾ in	6 in	P	**2PFJ5**
⅜"-16	59⁄64 in	6 in	5⁄16 in	**33YH49**
7⁄16"-14	27⁄32 in	6 in	V	**2PFJ6**
½"-13	29⁄32 in	6 in	11.00mm	**2PFJ7**
⅝"-11	1 5⁄64 in	6 in	13.90mm	**2PFJ8**
UNF, 3 Flute				
#10-32	31⁄64 in	4 in	4.15mm	**2PFH9**
#10-32	31⁄64 in	6 in	4.15mm	**2PFJ1**
¼"-28	19⁄32 in	6 in	7⁄32 in	**2PFH2**
7⁄16"-20	27⁄32 in	6 in	10.00mm	**2PFK2**
½"-20	29⁄32 in	6 in	11.60mm	**2PFJ3**
TiCN-Coated, High-Performance Spiral Point				
Metric Coarse, 3 Flute				
M10x1.5	18.00mm	150.00mm	8.50mm	**54LJ96**
M14X2	24.00mm	150.00mm	12.00mm	**54LK05**
M16x2	24.00mm	160.00mm	14.00mm	**54LK10**
M24x3	35.00mm	200.00mm	53⁄64 in	**54LK26**
M4x0.7	8.00mm	100.00mm	3.30mm	**54ML86**
M5x0.8	9.00mm	125.00mm	4.22mm	**54LJ85**
M6x1	11.00mm	150.00mm	5.00mm	**54LJ89**
M8x1.25	15.00mm	150.00mm	H	**54LJ92**
Metric Fine, 3 Flute				
M10x1	18.00mm	150.00mm	9.00mm	**54LJ94**
M10x1.25	18.00mm	150.00mm	11⁄32 in	**54LJ95**
M12x1	21.00mm	180.00mm	11.00mm	**54LJ97**
M12x1.5	21.00mm	180.00mm	10.50mm	**54LJ99**
M5x0.5	9.00mm	125.00mm	#16	**54LJ84**
Metric Fine, 4 Flute				
M18x2	29.00mm	180.00mm		**54LK13**
UNC, 3 Flute				
#10-24	9⁄16 in	4 29⁄32 in	#25	**54ML57**
#8-32	7⁄16 in	4 23⁄32 in	3.40mm	**54ML55**
¼"-20	45⁄64 in	5 57⁄64 in	#7	**54ML61**
5⁄16"-18	51⁄64 in	5 57⁄64 in	F	**54ML63**
7⁄16"-14	27⁄32 in	5 57⁄64 in	U	**54ML67**
½"-13	29⁄32 in	7 5⁄64 in	27⁄64 in	**54ML69**
⅝"-11	1 5⁄64 in	7 5⁄64 in	13.60mm	**54ML73**
¾"-10	1 3⁄16 in	7 55⁄64 in	16.50mm	**54ML75**
UNF, 3 Flute				
#10-32	37⁄64 in	5 57⁄64 in	#21	**54ML58**
⅜"-24	59⁄64 in	5 57⁄64 in	8.50mm	**54ML66**
7⁄16"-20	27⁄32 in	5 57⁄64 in	9.95mm	**54ML68**
½"-20	29⁄32 in	7 5⁄64 in	11.40mm	**54ML70**
⅝"-18	1 5⁄64 in	7 5⁄64 in	14.50mm	**54ML74**
¾"-16	1 3⁄16 in	7 55⁄64 in	17.50mm	**54ML76**
1"-12	1 1⁄2 in	7 59⁄64 in	23.30mm	**54ML80**
TiCN-Coated High-Performance Spiral Flute				
Metric Coarse, 3 Flute				
M10x1.5	12.00mm	150.00mm	11⁄32 in	**54MJ63**
M12x1.75	14.00mm	180.00mm	10.30mm	**54MJ67**
M16x2	16.00mm	180.00mm	14.00mm	**54MJ76**
M6x1	7.00mm	150.00mm	0.2189 in	**54MJ56**
M8x1.25	10.00mm	150.00mm	I	**54MJ59**
Metric Coarse, 4 Flute				
M20x2.5	25.00mm	200.00mm	17.50mm	**54MJ82**
M24x3	30.00mm	200.00mm	53⁄64 in	**54MJ92**
Metric Fine, 3 Flute				
M14x1.5	16.00mm	150.00mm	12.50mm	**54MJ70**
M15x1	12.00mm	160.00mm		**54MJ72**
M8x1	10.00mm	150.00mm	9⁄32 in	**54MJ58**
Metric Fine, 4 Flute				
M18x1.5	16.00mm	180.00mm	16.50mm	**54MJ78**
UNC, 2 Flute				
#8-32	¼ in	4 23⁄32 in	3.40mm	**54MJ17**
¼"-20	25⁄64 in	5 57⁄64 in	#7	**54MJ23**
UNC, 3 Flute				
⅜"-16	½ in	5 57⁄64 in	5⁄16 in	**54MJ27**
½"-13	39⁄64 in	7 5⁄64 in	27⁄64 in	**54MJ31**
9⁄16"-12	21⁄32 in	7 5⁄64 in	12.20mm	**54MJ33**
UNC, 4 Flute				
¾"-10	1 in	7 55⁄64 in	16.50mm	**54MJ37**
UNF, 2 Flute				
#10-32	5⁄16 in	5 57⁄64 in	#21	**54MJ20**
UNF, 3 Flute				
9⁄16"-18	21⁄32 in	7 5⁄64 in	12.90mm	**54MJ34**



Black Oxide Finish, High-Performance Spiral Point
No. 2PFH8



TiCN-Coated, High-Performance Spiral Point, Metric Coarse, 3 Flute
No. 54LJ96



TiCN-Coated High-Performance Spiral Flute
No. 54MJ63

Scan. Order. Done.
Details on page A1.

Additional tap sizes, materials, and coatings are available on Grainger.com®.



NPS
No. 15K060

Pipe and Conduit Thread Taps

- Right-hand thread direction

Pipe and conduit thread taps create or repair internal threads in pipe, conduit, and fittings so they can mate with parts that have matching external threads.

No. of Flutes	Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Carbon Steel BSP						
4	⅛ in-28	¾ in	2 ⅛ in	Taper	Irwin Hanson	19T150
Carbon Steel NPT						
4	⅛ in-27	¾ in	2 ⅛ in	Taper	Irwin Hanson	19T151
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	2LXR3
4	⅛ in-27	¾ in	2 ⅛ in	Taper	Ridgid	38HY54
4	¼ in-18	7⁄16 in	2 7⁄16 in	Taper	Irwin Hanson	19T152
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Westward	2LXR4
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Taper	Ridgid	38HY55
4	1 in-11-1/2	1 ¾ in	3 ¾ in	Taper	Ridgid	38HY57
4	1¼ in-11-1/2	1 ¾ in	4 1⁄16 in	Taper	Ridgid	38HY58
5	¾ in-14	1 ⅜ in	3 ¼ in	Taper	Ridgid	38HY56
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Taper	Ridgid	38HY59
Cobalt NPT						
4	⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	6VYK0
4	¼ in-18	1 3⁄64 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	6VYK1
4	⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	6VYK2
4	½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	6VYK3
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	6VYK4
High Speed Steel BSPP						
4	¼ in-19	1 3⁄64 in	2 7⁄16 in	Plug	North American	11V273
4	½ in-14	1 ⅜ in	3 ⅛ in	Taper	North American	36UV97
High Speed Steel BSPT						
4	⅛ in-28	¾ in	2 ⅛ in	Taper	North American	10D319
5	¾ in-14	1 ⅜ in	3 ¼ in	Taper	North American	36UW01
High Speed Steel G						
4	¾ in-14	26.00mm	140.00mm	Plug	Walter Prototyp	429C08
4	1¼ in-11	28.00mm	170.00mm	Plug	Walter Prototyp	429C02
6	2½ in-11	1 3⁄64 in	10 13⁄16 in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427G11
High Speed Steel NPS						
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Greenfield Threading	15K060
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Cleveland	435W92
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAJ3
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAJ4
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	2WAH9
High Speed Steel NPT						
2	⅛ in-27	9.70mm	50.80mm	Taper	Widia GTD	2XUK8
2	¼ in-18	14.80mm	49.30mm	Taper	Widia GTD	2XUK9
3	¼ in-18	17.40mm	69.09mm	Taper	Widia GTD	2XUL6
3	½ in-14	23.75mm	85.85mm	Taper	Widia GTD	2XUL2
3	¾ in-14	18.92mm	74.68mm	Taper	Widia GTD	2XUL3
4	1⁄16 in-27	11⁄16 in	2 ⅛ in	Semi-Bottoming	Greenfield Threading	15K021
4	1⁄16 in-27	11⁄16 in	2 ⅛ in	Semi-Bottoming	Cleveland	435W60
4	1⁄16 in-27	11⁄16 in	2 ⅛ in	Semi-Bottoming	Westward	5TWT5
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Greenfield Threading	15K022
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Greenfield Threading	15K023
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	2LWT6
4	⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAF4
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Cleveland	435W61
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Cleveland	435W62
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	5PXH0
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	5PXH1
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	5TWT6
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Westward	5TWT7
4	⅛ in-27	14.00mm	90.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427V80
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Westward	2LWT7
4	¼ in-18	1 3⁄64 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAF1
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Cleveland	435W63
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Westward	5TWT8
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Westward	5TWY0
4	¼ in-18	20.00mm	100.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427V79
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Greenfield Threading	15K025
4	⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAE8
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Cleveland	435W64
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Westward	5PXH3
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Westward	5TWT9
4	⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Westward	5TWY1
4	½ in-14	11⁄16 in	3 ⅛ in	Semi-Bottoming	Westward	5TWY2
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Greenfield Threading	15K026
4	½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAF8
4	½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	33ZL86
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Greenfield Threading	407D20
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Cleveland	435W65
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Westward	5PXH4
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Westward	5TWX1
5	½ in-14	26.00mm	125.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427V78
5	¾ in-14	29⁄32 in	3 ¼ in	Semi-Bottoming	Westward	5TWX2
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAF9
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAG1
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Greenfield Threading	407D21
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Cleveland	435W66
5	¾ in-14	1 ⅜ in	3 5⁄8 in	Semi-Bottoming	Cle-Line	50AP55
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Westward	5PXH5
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Westward	5TWU1
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Westward	5TWY3
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Greenfield Threading	15K028
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	2WAG2
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	33ZL90
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Cleveland	435W67
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Cle-Line	50AP53
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Westward	5TWU2
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Westward	5TWX3
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Westward	5TWY4
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Greenfield Threading	15K029
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming, Modified Bottoming	OSG	2WAF7
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Greenfield Threading	407D24
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Cleveland	435W68
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Westward	5PXH7
5	1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Westward	5TWU3
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Greenfield Threading	15K030
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAG6
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Greenfield Threading	407D25
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Cleveland	435W69
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	4CYE6
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Westward	5PXH8
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Westward	5TWU4
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming	Westward	5TWX5
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Greenfield Threading	15K031
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Greenfield Threading	407D26
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Cleveland	435W70
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Westward	5PXH9
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Westward	5TWU5
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Westward	5TWX6
High Speed Steel NPTF						
4	⅛ in-27	¾ in	2 ⅛ in	Semi-Bottoming	Greenfield Threading	15K041
4	⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAJ7
4	⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	4CYG2
4	¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Greenfield Threading	15K042
4	¼ in-18	1 3⁄64 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAJ9
4	⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAK2
4	⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAK5
4	½ in-14	1 ⅜ in	3 ⅛ in	Semi-Bottoming	Greenfield Threading	15K044
4	½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAK9
4	½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	2WAL1
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAK6
5	¾ in-14	1 23⁄64 in	3 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	2WAK8
5	¾ in-14	1 ⅜ in	3 ¼ in	Semi-Bottoming	Cleveland	435W77
5	1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Greenfield Threading	15K039
7	1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	4CYG4
7	2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming, Modified Bottoming	OSG	4CYG5
High Speed Steel RP						
4	¼ in-19	13⁄16 in	3 59⁄64 in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427F99
4	⅜ in-19	13⁄16 in	3 59⁄64 in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427G03
4	½ in-14	15⁄16 in	4 29⁄32 in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427F98
4	¾ in-14	1 1⁄64 in	5 ½ in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427G02
4	1 in-11	1 3⁄32 in	6 19⁄64 in	Semi-Bottoming, Modified Bottoming	Walter Prototyp	427F96

Additional tap sizes, materials, and coatings are available on Grainger.com®.

Interrupted-Thread Pipe and Conduit Thread Taps

WIDIA GTD · GREENFIELD THREADING · CLEVELAND · CLE-LINE.



NPT, 3 Flute
No. 33ZL63

- Right-hand thread direction

These taps have an interrupted thread pattern in which every other tooth has been removed from the cutting edge. They offer more space for chip evacuation than taps with a standard thread pattern, which allows large chips to be cleared from the taps during threading tasks.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
BSPP, 4 Flutes					
½ in-14	1 3⁄8 in	3 1⁄8 in	Bottoming	Widia GTD	**4CPL9**
½ in-14	1 3⁄8 in	3 1⁄8 in	Plug	Widia GTD	**4CPL8**
BSPT, 4 Flutes					
½ in-14	1 3⁄8 in	3 1⁄8 in	Bottoming	Widia GTD	**4CPL6**
½ in-14	1 3⁄8 in	3 1⁄8 in	Plug	Widia GTD	**4CPL5**
NPT, 3 Flutes					
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL63**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL64**
¼ in-18	1 3⁄64 in	2 7⁄16 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL65**
NPT, 5 Flutes					
⅛ in-27	¾ in	2 1⁄8 in	Semi-Bottoming	Greenfield Threading	**15K047**
⅛ in-27	¾ in	2 1⁄8 in	Semi-Bottoming	Cleveland	**435W79**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCE2**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD8**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZM31**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**4CYH8**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD7**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Greenfield Threading	**15K048**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Cleveland	**435W80**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Cle-Line	**50AP65**
¼ in-18	1 1⁄16 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD9**
¼ in-18	1 1⁄16 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD4**
¼ in-18	1 1⁄16 in	2 27⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCE1**
⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Greenfield Threading	**15K049**
⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Cleveland	**435W81**
⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL66**
⅜ in-18	1 1⁄16 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC4**
⅜ in-18	1 1⁄16 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD1**
½ in-14	1 3⁄8 in	3 1⁄8 in	Semi-Bottoming	Greenfield Threading	**15K050**
½ in-14	1 3⁄8 in	3 1⁄8 in	Semi-Bottoming	Cleveland	**435W82**
½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC5**
½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC7**
½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC6**
½ in-14	1 23⁄64 in	3 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL67**
½ in-14	1 21⁄32 in	3 1⁄8 in	Standard	Widia GTD	**4CPL7**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Semi-Bottoming	Greenfield Threading	**15K051**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Semi-Bottoming	Cleveland	**435W83**
¾ in-14	1 3⁄8 in	3 3⁄8 in	Semi-Bottoming	Cle-Line	**50AP69**
¾ in-14	1 23⁄64 in	3 1⁄4 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD2**
¾ in-14	1 23⁄64 in	3 1⁄4 in	Semi-Bottoming, Modified Bottoming	OSG	**4CYJ1**
¾ in-14	1 23⁄64 in	3 1⁄4 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC8**
¾ in-14	1 23⁄64 in	3 1⁄4 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL68**
1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Greenfield Threading	**15K052**
1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Cleveland	**435W84**
1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	**33ZM32**
1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD3**
1 in-11-1/2	1 ¾ in	3 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	**2WCD5**
1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming	Cle-Line	**50AP63**
1¼ in-11-1/2	1 ¾ in	4 in	Semi-Bottoming, Modified Bottoming	OSG	**4CYJ2**
NPT, 7 Flutes					
1½ in-11-1/2	1 ¾ in	4 ¼ in	Semi-Bottoming, Modified Bottoming	OSG	**4CYJ4**
2 in-11-1/2	1 ¾ in	4 ½ in	Semi-Bottoming, Modified Bottoming	OSG	**4CYJ6**
NPT, ANPT, 5 Flutes					
⅛ in-27	¾ in	2 1⁄8 in	Standard	Widia GTD	**4CPK9**
⅛ in-27	¾ in	2 1⁄8 in	Standard	Widia GTD	**4CPK8**
⅛ in-27	¾ in	2 1⁄8 in	Standard	Widia GTD	**53MJ24**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Standard	Widia GTD	**4CPL3**
⅜ in-18	1 13⁄16 in	2 9⁄16 in	Standard	Widia GTD	**53MJ21**
½ in-14	1 21⁄32 in	3 1⁄8 in	Standard	Widia GTD	**53MJ20**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Standard	Widia GTD	**53MJ19**
1 in -11-1/2	1 ¾ in	3 ¾ in	Standard	Widia GTD	**4CPN2**
1¼ in-11-1/2	1 ¾ in	4 in	Standard	Widia GTD	**4CPN4**
NPT, ANPT, 7 Flutes					
1½ in-11-1/2	3 in	4 ¼ in	Standard	Widia GTD	**4CPN5**
NPTF, 3 Flutes					
¼ in-18	1 3⁄64 in	2 7⁄16 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL72**
NPTF, 5 Flutes					
⅛ in-27	¾ in	2 1⁄8 in	Semi-Bottoming	Greenfield Threading	**407D28**
⅛ in-27	¾ in	2 1⁄8 in	Semi-Bottoming	Greenfield Threading	**15K054**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZM36**
⅛ in-27	¾ in	2 7⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZM37**
⅛ in-27	¾ in	2 1⁄8 in	Standard	Widia GTD	**4CPL2**
⅛ in-27	¾ in	2 1⁄8 in	Standard	Widia GTD	**4CPL1**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Greenfield Threading	**407D29**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottoming	Greenfield Threading	**15K055**
¼ in-18	1 1⁄16 in	2 7⁄16 in	Standard	Widia GTD	**4CPL4**
⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Greenfield Threading	**407D30**
⅜ in-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottoming	Greenfield Threading	**15K056**
⅜ in-18	1 3⁄64 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZL73**
⅜ in-18	1 1⁄16 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**2WCC9**
⅜ in-18	1 1⁄16 in	2 35⁄64 in	Semi-Bottoming, Modified Bottoming	OSG	**33ZM24**
½ in-14	1 3⁄8 in	3 1⁄8 in	Semi-Bottoming	Greenfield Threading	**407D31**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Semi-Bottoming	Cleveland	**435W90**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Semi-Bottoming	Greenfield Threading	**407D32**
¾ in-14	1 3⁄8 in	3 1⁄4 in	Standard	Widia GTD	**4CPN1**
1 in -11-1/2	1 ¾ in	3 ¾ in	Standard	Widia GTD	**4CPN3**

Short-Projection Pipe and Conduit Thread Taps

- Right-hand flute direction
- High-speed steel material

These taps have fewer tapered threads at their tip than standard pipe and conduit taps. They don't have to enter deep into the workpiece to produce full threads and are suitable for tapping shallow holes.



NPT, 5 Flute
No. 33ZM72

Thread Size	Thread Length	Overall Length	Item No.
NPT, 4 Flutes			
Bright Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM48**
¼"-18	1 3⁄64 in	2 27⁄64 in	**33ZM54**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33PD20**
½"-14	1 23⁄64 in	3 7⁄64 in	**33PD21**
Steam Oxide Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM49**
¼ in-18	1 3⁄64 in	2 27⁄64 in	**33ZM58**
¼"-18	1 3⁄64 in	2 27⁄64 in	**33ZM55**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33ZM60**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM65**
TiCN Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM50**
¼ in-18	1 3⁄64 in	2 27⁄64 in	**33ZM56**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33ZM61**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM66**
NPT, 5 Flutes			
Bright Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM70**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM76**
Steam Oxide Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM71**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM77**
TiCN Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM72**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM78**
NPTF, 4 Flutes			
Bright Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM51**
⅛"-27	¾ in	2 7⁄64 in	**33ZM82**
⅛"-27	¾ in	2 7⁄64 in	**33ZM87**
¼"-18	1 1⁄16 in	2 27⁄64 in	**33ZM83**
¼"-18	1 1⁄16 in	2 27⁄64 in	**33ZM88**
¼"-18	1 3⁄64 in	2 27⁄64 in	**33ZM57**
⅜"-18	1 1⁄16 in	2 35⁄64 in	**33ZM84**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33ZM62**
⅜"-18	1 1⁄16 in	2 35⁄64 in	**33ZM89**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM90**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM67**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM85**
Steam Oxide Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM52**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33ZM63**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM68**
TiCN Finish			
⅛"-27	¾ in	2 7⁄64 in	**33ZM53**
¼"-18	1 3⁄64 in	2 27⁄64 in	**33ZM59**
⅜"-18	1 3⁄64 in	2 35⁄64 in	**33ZM64**
½"-14	1 23⁄64 in	3 7⁄64 in	**33ZM69**
NPTF, 5 Flutes			
Bright Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM73**
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM86**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM79**
Steam Oxide Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM74**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM80**
TiCN Finish			
¾"-14	1 23⁄64 in	3 1⁄4 in	**33ZM75**
1"-11-1/2	1 ¾ in	3 ¾ in	**33ZM81**

For more information on taps, see page 2261.

Screw Thread Insert (STI) Taps



Bright (Uncoated) High Speed Steel Spiral Flute, UNC, 2 Flutes
No. 33ZJ83

STI taps create an oversized thread inside a hole so that a helical-coil screw thread insert can be installed in the hole. The insert distributes the load across the length of the threads and improves the threads' strength when a fastener with a standard screw thread size is screwed into the hole.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Bright (Uncoated) High Speed Steel Pipe					
NPT, 4 Flutes					
1/8 in-27	1 1/16 in	2 7/16 in	Taper	Heli-Coil	**4EYP2**
1/4 in-18	1 1/16 in	2 1/2 in	Taper	Heli-Coil	**4EYN8**
3/8 in-18	1 3/8 in	3 1/8 in	Taper	Heli-Coil	**4EYT5**
Bright (Uncoated) High Speed Steel Spiral Flute					
Metric Coarse, 3 Flutes					
M10x1.5	15.00mm	85.00 mm	Modified Bottoming	OSG	**33ZF67**
M8x1.25	12.00mm	74.00 mm	Modified Bottoming	OSG	**33ZF66**
Metric Coarse, 4 Flutes					
M20x2.5	25.00mm	124.00 mm	Modified Bottoming	OSG	**33ZF72**
M22x2.5	25.00mm	130.00 mm	Modified Bottoming	OSG	**33ZF73**
M24x3	30.00mm	138.00 mm	Modified Bottoming	OSG	**33ZF74**
UNC, 3 Flutes					
1/4 in-20	1/2 in	2 23/32 in	Bottoming	OSG	**33ZF45**
1/4 in-20	1/2 in	2 23/32 in	Bottoming	OSG	**33ZF44**
1/4 in-20	8.00mm	90.00 mm	Plug	Walter Prototyp	**428Z40**
5/16 in-18	39/64 in	2 15/16 in	Bottoming	OSG	**33ZF48**
3/8 in-16	5/8 in	3 23/64 in	Bottoming	OSG	**33ZF51**
UNC, 4 Flutes					
1/2 in-13	49/64 in	3 13/16 in	Bottoming	OSG	**33ZF58**
9/16 in-12	53/64 in	4 1/32 in	Bottoming	OSG	**33ZF17**
5/8 in-11	29/32 in	4 1/4 in	Bottoming	OSG	**33ZF21**
7/8 in-9	1 7/64 in	5 1/8 in	Bottoming	OSG	**33ZF29**
1 in-8	1 1/4 in	5 3/4 in	Bottoming	OSG	**33ZF34**
UNF, 3 Flutes					
#10-32	13/32 in	2 1/2 in	Bottoming	OSG	**33ZF42**
1/4 in-28	1/2 in	2 23/32 in	Bottoming	OSG	**33ZF46**
5/16 in-24	35/64 in	2 15/16 in	Bottoming	OSG	**33ZF50**
7/16 in-20	45/64 in	3 23/64 in	Bottoming	OSG	**33ZF56**
UNF, 4 Flutes					
1/2 in-20	49/64 in	3 37/64 in	Bottoming	OSG	**33ZF16**
9/16 in-18	53/64 in	3 13/16 in	Bottoming	OSG	**33ZF19**
5/8 in-18	29/32 in	4 1/32 in	Bottoming	OSG	**33ZF24**
Bright (Uncoated) High Speed Steel Spiral Point					
EGUNF, 4 Flutes					
1/2 in-20	21.00mm	100.00 mm	Plug	Walter Prototyp	**429A08**
Metric Coarse, 2 Flutes					
M2.5x0.45	8.00mm	49.00 mm	Plug	OSG	**33ZK06**
M2x0.4	6.00mm	46.00 mm	Plug	OSG	**33ZK05**
M4x0.7	13.00mm	60.00 mm	Plug	OSG	**33ZK08**
Metric Coarse, 3 Flutes					
M10x1.5	23.00mm	85.00 mm	Plug	OSG	**33ZK12**
M12x1.75	25.00mm	91.00 mm	Plug	OSG	**33ZK13**
M20x2.5	33.00mm	124.00 mm	Plug	OSG	**33ZK17**
M5x0.8	15.00mm	80.00 mm	Plug	Walter Prototyp	**426T09**
M6x1	17.00mm	69.00 mm	Plug	OSG	**33ZK10**
M8x1.25	19.00mm	74.00 mm	Plug	OSG	**33ZK11**
UNC, 2 Flutes					
#10-24	5/8 in	2 1/2 in	Plug	OSG	**33ZJ83**
#2-56	5/16 in	1 7/8 in	Plug	OSG	**33ZJ89**
UNC, 3 Flutes					
#10-24	15.00mm	80.00 mm	Plug	Walter Prototyp	**428Z13**
1/4 in-20	11/16 in	2 23/32 in	Plug	OSG	**33ZJ87**
1/4 in-20	18.00mm	90.00 mm	Plug	Walter Prototyp	**428Z12**
1/4 in-20	19.00mm	69.00 mm	Plug	Walter Prototyp	**427L38**
1/2 in-13	1 5/64 in	3 13/16 in	Plug	OSG	**33ZJ57**
5/8 in-11	1 7/32 in	4 1/4 in	Plug	OSG	**33ZJ65**
UNF, 3 Flutes					
9/16 in-18	1 5/64 in	3 13/16 in	Plug	OSG	**33ZJ63**
7/8 in-14	1 1/2 in	5 1/8 in	Plug	OSG	**33ZJ75**
Bright (Uncoated) High Speed Steel Straight Flute (Hand)					
Metric Coarse, 3 Flutes					
M3.5x0.6	19.00mm	53.00 mm	Plug	Heli-Coil	**4EYX4**
M3x0.5	17.00mm	51.00 mm	Plug	Heli-Coil	**4EYX5**
M4x0.7	22.22mm	60.32 mm	Plug	Heli-Coil	**4EYX8**
M5x0.8	25.40mm	64.00 mm	Plug	Heli-Coil	**4EYY1**
M6x1	14.00mm	69.00 mm	Modified Bottoming	OSG	**33ZL38**
M6x1	34.00mm	69.00 mm	Plug	Heli-Coil	**4EYY3**
Metric Coarse, 4 Flutes					
M10x1.5	42.00mm	86.00 mm	Plug	Heli-Coil	**4EYV9**
M10x1.5	42.00mm	86.00 mm	Plug	Heli-Coil	**4EYV8**
M12x1.75	42.07mm	91.28 mm	Plug	Heli-Coil	**4EYW5**
M16x2	50.80mm	107.95 mm	Plug	Heli-Coil	**4EYW8**
M20x2.5	56.36mm	124.62 mm	Plug	Heli-Coil	**4EYX2**
M22x2.5	35.00mm	130.00 mm	Modified Bottoming	OSG	**33ZL46**
M24x3	65.09mm	138.11 mm	Plug	Heli-Coil	**4EYX3**
M8x1.25	17.00mm	74.00 mm	Modified Bottoming	OSG	**33ZL39**
M8x1.25	31.75mm	74.61 mm	Plug	Heli-Coil	**4EYY8**
Metric Fine, 4 Flutes					
M10x1.25	42.00mm	86.00 mm	Plug	Heli-Coil	**4EYV7**
M14x1.50	46.04mm	96.84 mm	Plug	Heli-Coil	**4EYW6**
UNC, 3 Flutes					
#10-24	1 in	2 1/2 in	Plug	Heli-Coil	**4EYP3**
#2-56	9/16 in	1 7/8 in	Plug	Heli-Coil	**4EYR9**
#8-32	15/16 in	2 3/8 in	Plug	Heli-Coil	**4EYN3**
1/4 in-20	3/4 in	2 23/32 in	Bottoming	OSG	**33ZL18**
1/4 in-20	1 1/8 in	2 23/32 in	Plug	Heli-Coil	**4EYN9**
UNC, 4 Flutes					
5/16 in-18	1 1/4 in	2 15/16 in	Plug	Heli-Coil	**4EYU1**
3/8 in-16	59/64 in	3 23/64 in	Bottoming	OSG	**33ZK93**
3/8 in-16	1 21/32 in	3 3/8 in	Plug	Heli-Coil	**4EYT4**
1/2 in-13	1 13/16 in	3 13/16 in	Plug	Heli-Coil	**4EYN5**
9/16 in-12	1 13/16 in	4 1/32 in	Plug	Heli-Coil	**4EYV3**
5/8 in-11	1 17/64 in	4 1/4 in	Bottoming	OSG	**33ZK43**
5/8 in-11	2 in	4 1/4 in	Plug	Heli-Coil	**4EYU3**
1 in-8	2 9/16 in	5 3/4 in	Plug	Heli-Coil	**4EYR7**
1 1/4 in-7	3 in	6 3/8 in	Plug	Heli-Coil	**4EYP8**
UNC, 6 Flutes					
1 3/8 in-6	3 3/16 in	6 11/16 in	Plug	Heli-Coil	**4EYR6**
1 1/2 in-6	3 3/16 in	7 in	Plug	Heli-Coil	**4EYP6**
UNF, 4 Flutes					
9/16 in-18	1 13/16 in	3 13/16 in	Plug	Heli-Coil	**4EYV4**
1 in-12	1 3/4 in	5 7/16 in	Bottoming	OSG	**33ZK73**
1 in-12	2 9/16 in	5 7/16 in	Plug	Heli-Coil	**4EYR2**
UNF, 6 Flutes					
1 1/8 in-12	2 9/16 in	5 3/4 in	Plug	Heli-Coil	**4EYP9**
1 1/4 in-12	3 in	6 1/16 in	Plug	Heli-Coil	**4EYP7**

General Purpose Spiral-Flute Taps



UNC, 2 Flutes
No. 2VZY9

- Right-hand thread direction

General purpose spiral-flute taps create internal threads in blind holes and are intended for threading a wide range of materials.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Metric, 2 Flutes					
M3x0.5	7.87mm	49.28mm	Plug	Cleveland	**435V62**
Metric Coarse, 2 Flutes					
M3x0.5	7.95mm	49.28mm	Bottoming	Widia GTD	**13X334**
Metric Coarse, 3 Flutes					
M12x1.75	1 21/32 in	3 3/8 in	Bottoming	OSG	**2LYD5**
M12x1.75	23.75mm	85.85mm	Bottoming	Widia GTD	**13X322**
M16x2	32.00mm	95.00mm	Semi-Bottoming, Modified Bottoming	OSG	**33XR16**
UNC, 2 Flutes					
#6-32	3/8 in	2 in	Bottoming	OSG	**2VZY9**
#6-32	3/8 in	2 in	Plug	Widia GTD	**1TRJ4**
#6-32	3/8 in	2 in	Plug	OSG	**2WAC8**
UNC, 3 Flutes					
#10-24	1/2 in	2 11/32 in	Bottoming	OSG	**2VZZ3**
#10-24	1/2 in	2 3/8 in	Plug	Widia GTD	**1TRJ6**
#10-24	1/2 in	2 11/32 in	Plug	OSG	**2VZY7**
#8-32	3/8 in	2 1/8 in	Bottoming	Widia GTD	**1TRK6**
#8-32	3/8 in	2 3/32 in	Bottoming	OSG	**2VZZ2**
#8-32	3/8 in	2 3/32 in	Plug	OSG	**2VZZ1**
1/2"-13	15/16 in	3 3/8 in	Bottoming	Greenfield Threading	**15J968**
1/2"-13	15/16 in	3 11/32 in	Bottoming	OSG	**2WAC5**
1/2"-13	15/16 in	3 11/32 in	Bottoming	OSG	**2WAE4**
1/2"-13	15/16 in	3 3/8 in	Bottoming	Cleveland	**435V59**
1/2"-13	15/16 in	3 11/32 in	Plug	OSG	**4CYE4**
1/2"-13	1 21/32 in	3 3/8 in	Bottoming	OSG	**2LYC8**
1/2 in-13	7/8 in	3 3/8 in	Plug	Widia GTD	**1TRK3**
1/4"-20	5/8 in	2 1/2 in	Bottoming	Greenfield Threading	**15J962**
1/4"-20	5/8 in	2 1/2 in	Bottoming	OSG	**2VZX9**
1/4"-20	5/8 in	2 1/2 in	Bottoming	OSG	**2WAE2**
1/4"-20	5/8 in	2 1/2 in	Plug	Greenfield Threading	**15J949**
1/4"-20	5/8 in	2 1/2 in	Plug	OSG	**2VZX6**
1/4"-20	5/8 in	2 1/2 in	Plug	OSG	**4CYE2**
1/4"-20	1 in	2 1/2 in	Bottoming	OSG	**2LYA7**
1/4 in-20	5/8 in	2 1/2 in	Bottoming	Widia GTD	**1TRK9**
1/4 in-20	5/8 in	2 1/2 in	Plug	Widia GTD	**1TRJ8**
3/8"-16	3/4 in	2 15/16 in	Bottoming	Greenfield Threading	**15J966**
3/8"-16	3/4 in	2 29/32 in	Bottoming	OSG	**2WAC2**
3/8"-16	3/4 in	2 15/16 in	Plug	Greenfield Threading	**15J953**
3/8"-16	3/4 in	2 29/32 in	Plug	OSG	**2VZY8**
3/8 in-16	11/16 in	2 15/16 in	Plug	Widia GTD	**1TRK2**
5/16"-18	11/16 in	2 23/32 in	Bottoming	OSG	**2VZY3**
5/16"-18	11/16 in	2 23/32 in	Bottoming	Cleveland	**435V51**
5/16"-18	11/16 in	2 23/32 in	Plug	Greenfield Threading	**15J951**
5/16"-18	11/16 in	2 23/32 in	Plug	OSG	**2VZX7**
5/16 in-18	5/8 in	2 23/32 in	Plug	Widia GTD	**1TRK1**
7/16"-14	7/8 in	3 1/8 in	Bottoming	OSG	**2WAC7**
7/16"-14	7/8 in	3 1/8 in	Plug	OSG	**4CYD7**
UNC, 4 Flutes					
3/4"-10	1 3/16 in	4 1/4 in	Bottoming	OSG	**2WAA4**
3/4"-10	1 3/16 in	4 1/4 in	Plug	OSG	**2WAA3**
3/4 in-10	1 7/32 in	4 1/4 in	Plug	Widia GTD	**4CPK6**
5/8"-11	1 1/16 in	3 25/32 in	Bottoming	OSG	**2VZZ8**
5/8"-11	1 1/16 in	3 25/32 in	Plug	OSG	**2VZZ7**
5/8 in-11	1 3/32 in	3 13/16 in	Plug	Widia GTD	**4CPK4**
UNF, 3 Flutes					
#10-32	1/2 in	2 11/32 in	Bottoming	OSG	**2VZZ5**
#10-32	1/2 in	2 11/32 in	Bottoming	OSG	**33XP18**
#10-32	1/2 in	2 3/8 in	Bottoming	Cleveland	**435V45**
#10-32	1/2 in	2 3/8 in	Plug	Widia GTD	**1TRJ7**
#10-32	1/2 in	2 11/32 in	Plug	OSG	**2VZZ4**
#10-32	7/8 in	2 3/8 in	Bottoming	OSG	**2LYC3**
1/2"-20	15/16 in	3 11/32 in	Bottoming	OSG	**2WAA2**
1/2"-20	15/16 in	3 11/32 in	Plug	OSG	**4CYD9**
5/16"-24	11/16 in	2 23/32 in	Bottoming	OSG	**2VZY5**
7/16"-20	7/8 in	3 1/8 in	Plug	OSG	**4CYD8**
UNF, 4 Flutes					
3/4"-16	1 3/16 in	4 1/4 in	Bottoming	OSG	**2WAA6**
5/8"-18	1 1/16 in	3 25/32 in	Bottoming	OSG	**2WAA1**
5/8"-18	1 1/16 in	3 25/32 in	Plug	OSG	**2VZZ9**

Additional tap sizes, materials, and coatings are available on Grainger.com®.

CLEVELAND WIDIA GTD

High-Performance Spiral-Flute Taps

- Right-hand thread direction

High-performance spiral-flute taps create internal threads in blind holes and are harder and more wear-resistant than general purpose spiral-flute taps. They provide better precision and accuracy than general purpose taps when used for threading holes in designated materials.



Multiple Material Tapping
Metric, 5 Flutes
No. 445H39

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.
Multiple Material Tapping						
Metric, 4 Flutes						
M20x2.5	62.99mm	140.00mm	H6	High Speed Steel	Cleveland	**435X10**
M24x3	30.00mm	160.00mm	6H	High Speed Steel	Widia GTD	**445H21**
M24x3.0	65.99mm	160.00mm	H6	High Speed Steel	Cleveland	**435X12**
M30x3.5	35.00mm	180.00mm	6H	High Speed Steel	Widia GTD	**445H31**
M36x4	40.00mm	200.00mm	6H	High Speed Steel	Widia GTD	**445H35**
Metric Coarse, 3 Flutes						
M10x1.5	11.00mm	74.00mm	D6	High Speed Steel	OSG	**2TTG4**
M10x1.5	11.00mm	74.00mm	D11	High Speed Steel	OSG	**2TTL7**
M16x2	16.00mm	96.00mm	D7	High Speed Steel	OSG	**2TTL3**
M3x0.5	4.00mm	49.00mm	D3	High Speed Steel	OSG	**2TTH2**
M5x0.8	6.00mm	60.00mm	D4	High Speed Steel	OSG	**2TTH6**
M6x1	8.00mm	63.00mm	D5	High Speed Steel	OSG	**2TTJ1**
M6x1	16.00mm	63.50mm	D5 / 6H	High Speed Steel	Widia GTD	**11W608**
M8x1.25	10.00mm	69.00mm	D5	High Speed Steel	OSG	**2TTF9**
M8x1.25	17.50mm	68.70mm	D5 / 6H	High Speed Steel	Widia GTD	**11W605**
Metric Coarse, 4 Flutes						
M20x2.5	19.00mm	113.00mm	D8	High Speed Steel	OSG	**2TTK5**
M24x3	24.00mm	124.00mm	D8	High Speed Steel	OSG	**2TTL8**
M30x3.5	27.00mm	138.00mm	D9	High Speed Steel	OSG	**2TTL9**
Metric Fine, 3 Flutes						
M10x1	11.00mm	74.00mm	D5	High Speed Steel	OSG	**2TTF7**
M10x1.25	11.00mm	74.00mm	D5	High Speed Steel	OSG	**2TTG1**
M10x1.5	18.00mm	100.00mm	6H	High Speed Steel	Widia GTD	**53NG64**
M12x1.25	13.00mm	85.00mm	D5	High Speed Steel	OSG	**2TTG6**
M14x1.5	21.00mm	100.00mm	6H	High Speed Steel	Widia GTD	**53NG81**
M14x1.5	25.40mm	91.20mm	D6 / 6H	High Speed Steel	Widia GTD	**13X379**
M16x1.5	16.00mm	96.00mm	D6	High Speed Steel	OSG	**2TTL1**
M8x1	10.00mm	69.00mm	D5	High Speed Steel	OSG	**2TTG7**
Metric Fine, 4 Flutes						
M20x2	25.00mm	140.00mm	6H	High Speed Steel	Widia GTD	**445H07**
M27x1.5	20.00mm	140.00mm	6H	High Speed Steel	Widia GTD	**445H23**
M30x1.5	22.00mm	150.00mm	6H	High Speed Steel	Widia GTD	**445H27**
M30x2	22.00mm	150.00mm	6H	High Speed Steel	Widia GTD	**445H29**
UNC, 3 Flutes						
#10-24	5/16 in	2 11/32 in	H3	High Speed Steel	OSG	**2PJJ1**
#10-24	1/2 in	2 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**11W497**
#6-32	3/16 in	2 in	H3	High Speed Steel	OSG	**2PJH6**
#8-32	1/4 in	2 3/32 in	H3	High Speed Steel	OSG	**2PJH8**
1/4"-20	3/8 in	2 1/2 in	H3	High Speed Steel	OSG	**2PJK7**
1/4"-20	3/8 in	2 1/2 in	H5	High Speed Steel	OSG	**2PJR1**
1/4"-20	3/8 in	2 1/2 in	H7	High Speed Steel	OSG	**2PJR2**
5/16 in-18	11/16 in	2 23/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**445C28**
3/8"-16	1/2 in	2 29/32 in	H3	High Speed Steel	OSG	**2PJL6**
3/8"-16	1/2 in	2 29/32 in	H5	High Speed Steel	OSG	**2PJT1**
3/8 in-16	3/4 in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**1W236**
3/8 in-16	3/4 in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**11W491**
7/16 in-14	7/8 in	3 5/32 in	H5 / 2B	High Speed Steel	Widia GTD	**1W240**
1/2"-13	9/16 in	3 11/32 in	H3	High Speed Steel	OSG	**2PJN4**
1/2 in-13	15/16 in	3 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**445C46**
1/2 in-13	15/16 in	3 3/8 in	H5 / 2B	High Speed Steel	Widia GTD	**1W244**
9/16 in-12	1 in	3 9/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**1W256**
UNC, 4 Flutes						
5/8"-11	11/16 in	3 25/32 in	H5	High Speed Steel	OSG	**2PJV2**
3/4"-10	3/4 in	4 1/4 in	H3	High Speed Steel	OSG	**2PJP3**
3/4 in-10	1 3/16 in	4 1/4 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**1W252**
1 in-8	1 1/2 in	5 1/8 in	H5 / 2B	High Speed Steel	Widia GTD	**11W459**
UNC, 5 Flutes						
1 3/4 in-5	2 3/8 in	7 in	H7 / 2B	High Speed Steel	Widia GTD	**445F78**
1 3/4 in-5	2 3/8 in	7 in	H7 / 2B	High Speed Steel	Widia GTD	**53MZ26**
2 in-4-1/2	2 1/8 in	9 13/16 in	2B	High Speed Steel	Widia GTD	**445J30**
Multiple Material Tapping, DIN/ANSI						
Metric Coarse, 3 Flutes						
M12x1.75	40.00mm	110.00mm	6H	Cobalt	Cleveland	**45ET63**
M6x1	32.00mm	80.00mm	6H	Cobalt	Cleveland	**45ET56**
M8x1.25	35.00mm	90.00mm	6H	Cobalt	Cleveland	**45ET59**
Metric Coarse, 4 Flutes						
M16x2	16.00mm	180.00mm	D7	High Speed Steel	OSG	**33XK82**
M16x2.0	53.01mm	110.00mm	6H	Cobalt	Cleveland	**45ET67**
Metric Coarse, 5 Flutes						
M30x3.5	28.00mm	180.00mm	D10	High Speed Steel	OSG	**33XK66**
M30x3.5	28.00mm	180.00mm	D10	High Speed Steel	OSG	**33PD33**
M30x3.5	28.00mm	250.00mm	D10	High Speed Steel	OSG	**33XL11**
M33x3.5	28.00mm	180.00mm	D10	High Speed Steel	OSG	**33XK68**
UNC, 3 Flutes						
1/4"-20	3/8 in	3 1/8 in	2B	High Speed Steel	OSG	**2PHJ9**
1/4"-20	1 1/4 in	3 1/8 in	2B / 2B	Cobalt	Cleveland	**45ET32**
3/8"-16	1 11/16 in	3 29/32 in	2B / 2B	Cobalt	Cleveland	**45ET36**
1/2"-13	1 1/2 in	4 5/16 in	2B / 2B	Cobalt	Cleveland	**45ET40**
UNC, 4 Flutes						
5/8"-11	2 1/16 in	4 5/16 in	2B / 2B	Cobalt	Cleveland	**45ET44**
7/8"-9	2 5/16 in	5 1/2 in	2B / 2B	Cobalt	Cleveland	**45ET48**
1"-8	2 1/2 in	5 1/2 in	2B / 2B	Cobalt	Cleveland	**45ET50**
UNF, 3 Flutes						
3/8"-24	1/2 in	3 29/32 in	2B	High Speed Steel	OSG	**2PHG9**
1/2"-20	9/16 in	3 29/32 in	2B	High Speed Steel	OSG	**2PHH5**
UNF, 4 Flutes						
5/8"-18	11/16 in	3 29/32 in	2B	High Speed Steel	OSG	**2PHH4**
1"-12	2 1/2 in	6 9/32 in	2B / 2B	Cobalt	Cleveland	**45ET51**
Nickel & Titanium Tapping						
UNC, 3 Flutes						
#10-24	7/16 in	2 11/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV87**
#10-24	7/16 in	2 11/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NN42**
#8-32	1/4 in	2 3/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW19**
1/4 in-20	7/16 in	2 1/2 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NU56**
5/16 in-18	7/16 in	2 23/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW58**
3/8 in-16	9/16 in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW46**
7/16 in-14	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV81**
1/2 in-13	3/4 in	3 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW24**
1/2 in-13	3/4 in	3 3/8 in	H5 / 2B	High Speed Steel	Widia GTD	**53NV50**
5/8 in-11	7/8 in	3 25/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW69**
UNF, 3 Flutes						
#10-32	7/16 in	2 11/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV91**
3/8 in-24	9/16 in	2 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NT84**
7/16 in-20	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW78**
7/16 in-20	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV10**
1/2 in-20	3/4 in	3 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV51**
1/2 in-20	3/4 in	3 3/8 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW28**
5/8 in-18	1 1/4 in	3 25/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW73**
Steel & Stainless Steel Tapping						
Metric Coarse, 3 Flutes						
M10x1.5	12.00mm	74.00mm	D6	High Speed Steel	OSG	**33XH65**
M12x1.75	14.00mm	85.00mm	D6	High Speed Steel	OSG	**2PFD7**
M5x0.8	6.00mm	60.00mm	D4	High Speed Steel	OSG	**33XH57**
M6x1	8.00mm	63.00mm	D5	High Speed Steel	OSG	**2PFD3**
M8x1.25	10.00mm	69.00mm	D5	High Speed Steel	OSG	**2PFD5**
Metric Fine, 3 Flutes						
M12x1.25	14.00mm	85.00mm	D5	High Speed Steel	OSG	**33XH43**
UNC, 3 Flutes						
#10-24	5/16 in	2 11/32 in	H3	High Speed Steel	OSG	**2PEF1**
#10-24	5/16 in	2 11/32 in	H3	Powdered Metal	OSG	**2PEY3**
#8-32	1/4 in	2 3/32 in	H3	High Speed Steel	OSG	**2PDY7**
#8-32	1/4 in	2 3/32 in	H3	High Speed Steel	OSG	**2PED8**
1/4"-20	3/8 in	2 1/2 in	H3	High Speed Steel	OSG	**2PDY9**
1/4"-20	3/8 in	2 1/2 in	H3	High Speed Steel	OSG	**2PEF5**
5/16"-18	7/16 in	2 23/32 in	H3	High Speed Steel	OSG	**2PEF9**
3/8"-16	1/2 in	2 29/32 in	H3	High Speed Steel	OSG	**2PEG4**
3/8"-16	1/2 in	2 29/32 in	H3	Powdered Metal	OSG	**2PFA5**
3/8"-16	1/2 in	2 29/32 in	H5	High Speed Steel	OSG	**4HHR7**
1/2"-13	9/16 in	3 11/32 in	H3	High Speed Steel	OSG	**2PEH1**
Steel & Stainless Steel Tapping, DIN/ANSI						
Metric Fine, 3 Flutes						
M14x1.25	12.00mm	100.00mm	D6	Powdered Metal	OSG	**54MG84**
M17x1	12.00mm	100.00mm	D5	Powdered Metal	OSG	**54MG89**
Metric Fine, 4 Flutes						
M20x1.5	16.00mm	125.00mm	D6	Powdered Metal	OSG	**32NG64**
M42x3	48.00mm	200.00mm	D10	Powdered Metal	OSG	**54MH26**
M48x3	48.00mm	225.00mm	D11	Powdered Metal	OSG	**54MH32**
UNC, 3 Flutes						
5/16"-18	7/16 in	3 17/32 in	H5	Powdered Metal	OSG	**32NG89**
3/8"-16	1/2 in	3 29/32 in	H3	Powdered Metal	OSG	**32NG94**
5/8"-11	11/16 in	4 5/16 in	H3	Powdered Metal	OSG	**32NH11**
5/8"-11	11/16 in	4 5/16 in	H5	Powdered Metal	OSG	**32NH10**
UNC, 4 Flutes						
3/4"-10	1 in	4 29/32 in	H5	Powdered Metal	OSG	**32NH14**
1"-8	1 1/4 in	6 9/32 in	H4	Powdered Metal	OSG	**32NH23**
1 1/8"-8	13/16 in	7 1/16 in	H9	Powdered Metal	OSG	**54MG08**
1 1/8"-7	15/16 in	7 1/16 in	H9	Powdered Metal	OSG	**54MG07**
1 3/4"-8	13/16 in	7 27/32 in	H10	Powdered Metal	OSG	**54MG29**
UNF, 4 Flutes						
3/4"-16	1 in	4 5/16 in	H3	Powdered Metal	OSG	**32NH17**
7/8"-14	1 1/16 in	4 29/32 in	H4	Powdered Metal	OSG	**32NH21**
1 1/8"-12	13/16 in	5 7/8 in	H8	Powdered Metal	OSG	**54MG09**
1 3/8"-12	13/16 in	6 11/16 in	H8	Powdered Metal	OSG	**54MG23**

For more information on taps, see page 2261.



Black Oxide
UNC, 2 Flutes
No. 2VZW3

General Purpose Spiral-Point Taps

- Right-hand thread direction

General purpose spiral-point taps create internal threads in through holes and are intended for threading a wide range of materials. These taps are made from high-speed steel.

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Black Oxide					
Metric Coarse, 3 Flutes					
M12x1.75	23.00mm	85.00mm	6H	OSG	**2WAN8**
UNC, 2 Flutes					
#10-24	½ in	2 11/32 in	H3	OSG	**2LXT9**
#10-24	9/16 in	2 ½ in	H3	OSG	**2VZW3**
#10-24	9/16 in	2 ½ in	H3	OSG	**4CXZ7**
#6-32	⅜ in	2 in	H3	OSG	**2LXU6**
#6-32	7/16 in	2 3/32 in	H3	OSG	**4CXZ6**
#6-32	11/16 in	2 in	H3 / 3B	Westward	**5TWE5**
#8-32	7/16 in	2 ¼ in	JIS 2	OSG	**2VZX5**
#8-32	7/16 in	2 ¼ in	JIS 2	OSG	**2VZW5**
¼"-20	⅝ in	2 ½ in	H3	OSG	**2LXR5**
¼"-20	11/16 in	2 21/32 in	H3	OSG	**2TTC8**
¼"-20	1 in	2 ½ in	H3 / 3B	Westward	**5TWF2**
5/16"-18	13/16 in	2 27/32 in	H3	OSG	**2TTD8**
5/16"-18	1 ⅛ in	2 23/32 in	H3 / 3B	Westward	**5TWF5**
UNC, 3 Flutes					
¼"-20	1 in	2 ½ in	H3 / 3B	Westward	**5TWP1**
5/16"-18	13/16 in	2 27/32 in	H3	OSG	**2VZR5**
⅜"-16	¾ in	2 29/32 in	H3	OSG	**33YG31**
⅜"-16	¾ in	2 29/32 in	2B / 2B	OSG	**2LXR7**
⅜"-16	¾ in	2 29/32 in	3B / 3B	OSG	**2LXV7**
⅜"-16	⅞ in	3 3/32 in	H3	OSG	**2VZP4**
⅜"-16	1 ¼ in	2 15/16 in	H3 / 3B	Westward	**5TWF6**
7/16"-14	⅞ in	3 ⅛ in	H3	OSG	**2VZP6**
½"-13	15/16 in	3 11/32 in	JIS 2	OSG	**2VZT8**
½"-13	15/16 in	3 11/32 in	JIS 2	OSG	**2LXU9**
⅝"-11	1 7/16 in	3 29/32 in	2B	OSG	**2VZR8**
¾"-10	1 3/16 in	4 ¼ in	H3	OSG	**2VZT1**
UNF, 2 Flutes					
#10-32	½ in	2 11/32 in	H3	OSG	**2LXT7**
#10-32	9/16 in	2 ½ in	H3	OSG	**2VZW9**
#10-32	9/16 in	2 ½ in	H3	OSG	**2VZV7**
UNF, 3 Flutes					
¾"-16	1 3/16 in	4 ¼ in	H3	OSG	**2VZP2**
Bright (Uncoated)					
Metric, 2 Flutes					
M5x0.8	12.70mm	60.45mm	JIS 2	Cleveland	**435U12**
M6x1	16.00mm	63.50mm	D5	Cleveland	**435U15**
M8x1.25	17.53mm	69.09mm	H3	Cleveland	**435U41**
Metric, 3 Flutes					
M10x1.5	31.75mm	74.61mm	6H	Cleveland	**435U50**
M12x1.75	42.07mm	85.72mm	6H	Cleveland	**435U57**
M14x1.5	42.07mm	91.28mm	D6	Cleveland	**435U62**
M16x1.5	46.04mm	96.84mm	2B	Cleveland	**435U66**
M16x2	46.04mm	96.84mm	2B	Cleveland	**435U67**
M20x2.5	50.80mm	13.51mm	D7	Cleveland	**435U70**
Metric Coarse, 2 Flutes					
M2.5x0.45	12.00mm	46.00mm	H3	OSG	**2WAL5**
M3x0.50	⅝ in	1 15/16 in	D3 / 3B	Westward	**5TWK8**
M4x0.7	9.65mm	54.10mm	JIS 2	Greenfield Threading	**15J819**
M4x0.70	¾ in	2 ⅛ in	D4 / 3B	Westward	**5TWL0**
M5x0.8	12.70mm	60.45mm	JIS 2	Greenfield Threading	**15J832**
M5x0.8	13.00mm	60.00mm	D4	OSG	**2WAN6**
M5x0.80	⅞ in	2 ⅜ in	D4 / 3B	Westward	**5TWL1**
M6x1	16.00mm	63.50mm	D5	Greenfield Threading	**15J835**
M6x1	16.00mm	63.00mm	D5	OSG	**2WAN4**
M6x1.00	1 in	2 ½ in	D5 / 3B	Westward	**5TWL2**
M8x1.25	1 ⅛ in	2 23/32 in	D5 / 3B	Westward	**5TWL3**
M8x1.25	17.53mm	69.09mm	H3	Greenfield Threading	**15J855**
M8x1.25	18.00mm	69.00mm	H3	OSG	**2WAN2**
Metric Coarse, 3 Flutes					
M10x1.5	19.05mm	74.68mm	6H	Greenfield Threading	**15J864**
M10x1.5	19.00mm	74.00mm	6H	OSG	**2WAL9**
M10x1.50	1 ¼ in	2 15/16 in	D6 / 3B	Westward	**5TWL4**
M12x1.25	23.88mm	85.85mm	6H	Greenfield Threading	**15J871**
M12x1.75	1 21/32 in	3 ⅜ in	D6 / 3B	Westward	**5TWL5**
M12x1.75	23.88mm	85.85mm	6H	Greenfield Threading	**15J870**
M12x1.75	23.00mm	85.00mm	6H	OSG	**2WAL8**
M14x2.0	25.40mm	91.19mm	D7	Greenfield Threading	**15J877**
M16x2	25.40mm	96.77mm	2B	Greenfield Threading	**15J881**
M16x2	27.00mm	96.00mm	2B	OSG	**2WAP9**
M16x2.00	1 13/16 in	3 13/16 in	D7 / 3B	Westward	**5TWL7**
M18x2.5	27.00mm	102.00mm	D7	OSG	**2WAT4**
M20x2.5	30.99mm	13.54mm	D7	Greenfield Threading	**15J884**
M20x2.5	31.00mm	113.00mm	D7	OSG	**2WAT7**
Metric Coarse, 4 Flutes					
M20x2.5	31.00mm	113.00mm	D7	OSG	**33YH09**
Metric Fine, 3 Flutes					
M10x1	19.00mm	74.00mm	6H	OSG	**2WAP5**
M10x1.25	19.05mm	74.68mm	JIS 2	Greenfield Threading	**15J863**
M10x1.25	19.00mm	74.00mm	JIS 2	OSG	**2WAT3**
M12x1.25	23.00mm	85.00mm	6H	OSG	**2WAP2**
M12x1.5	23.00mm	85.00mm	6H	OSG	**2WAP8**
M14x1.5	25.40mm	91.19mm	D6	Greenfield Threading	**15J876**
M14x1.5	25.00mm	91.00mm	D6	OSG	**2WAT8**
M16x1.5	25.40mm	96.77mm	2B	Greenfield Threading	**15J880**
M16x1.5	27.00mm	96.00mm	2B	OSG	**2WAT1**
M18x1.5	27.00mm	102.00mm	D6	OSG	**2WAP3**
M20x1.5	31.00mm	113.00mm	D6	OSG	**2WAT5**
M8x1	18.00mm	69.00mm	6H	OSG	**2WAP4**
Hard Lube-Coated, DIN/ANSI					
Metric Coarse, 3 Flutes					
M10x1.5	40.00mm	100.00mm	6H	Cleveland	**45ER07**
M12x1.75	40.00mm	110.00mm	6H	Cleveland	**45ER09**
M14x2.0	45.01mm	110.00mm	6H	Cleveland	**45ER11**
M16x2	53.01mm	110.00mm	2B	Cleveland	**45ER13**
M5x0.8	26.01mm	70.00mm	JIS 2	Cleveland	**45ER01**
M8x1.25	35.00mm	90.00mm	H3	Cleveland	**45ER05**
Metric Coarse, 4 Flutes					
M18x2.5	54.99mm	125.00mm	2B	Cleveland	**45ER15**
Metric Fine, 3 Flutes					
M10x1.25	40.00mm	100.00mm	JIS 2	Cleveland	**45ER06**
UNC, 3 Flutes					
#10-24	1 in	2 ¾ in	H3	Cleveland	**45EP73**
#8-32	13/16 in	2 15/32 in	JIS 2	Cleveland	**45EP71**
5/16"-18	1 ⅜ in	3 17/32 in	H3	Cleveland	**45EP79**
⅜"-16	1 11/16 in	3 29/32 in	2B / 2B	Cleveland	**45EP81**
½"-13	1 ½ in	4 5/16 in	JIS 2	Cleveland	**45EP85**
9/16"-12	1 ¾ in	4 5/16 in	2B / 2B	Cleveland	**45EP87**
⅝"-11	2 1/16 in	4 5/16 in	2B	Cleveland	**45EP89**
UNC, 4 Flutes					
¾"-10	2 3/16 in	4 29/32 in	2B / 2B	Cleveland	**45EP91**
⅞"-9	2 5/16 in	5 ½ in	2B / 2B	Cleveland	**45EP93**
1"-8	2 ½ in	6 9/32 in	2B / 2B	Cleveland	**45EP95**
UNF, 3 Flutes					
#10-32	1 in	2 ¾ in	H3	Cleveland	**45EP74**
¼"-28	1 ¼ in	3 ⅛ in	6H	Cleveland	**45EP78**
5/8"-18	2 1/16 in	4 5/16 in	2B	Cleveland	**45EP90**
UNF, 4 Flutes					
¾"-16	2 3/16 in	4 29/32 in	2B / 2B	Cleveland	**45EP92**
⅞"-14	2 5/16 in	5 ½ in	2B / 2B	Cleveland	**45EP94**
1"-12	2 ½ in	6 9/32 in	2B / 2B	Cleveland	**45EP96**
UN Coarse, Bright (Uncoated)					
UNC, 2 Flutes					
#10-24	½ in	2 ⅜ in	H3	Greenfield Threading	**15J827**
#10-24	⅞ in	2 ⅜ in	H3 / 3B	Westward	**5TWC9**
#12-24	½ in	2 ⅜ in	H3 / 2B	Greenfield Threading	**15J833**
#4-40	9/16 in	1 ⅞ in	H2 / 3B	Westward	**5TWC5**
#6-32	⅜ in	2 in	H3	Greenfield Threading	**15J816**
#6-32	⅜ in	2 in	H3	Greenfield Threading	**15J918**
#6-32	11/16 in	2 in	H3 / 3B	Westward	**5TWC7**
#8-32	⅜ in	2 1/8 in	JIS 2	Greenfield Threading	**15J821**
#8-32	⅜ in	2 1/8 in	JIS 2	Greenfield Threading	**15J820**
#8-32	⅜ in	2 1/8 in	JIS 2	Greenfield Threading	**15J919**
#8-32	¾ in	2 1/8 in	H3 / 3B	Westward	**5TWC8**
¼"-20	⅜ in	2 ½ in	H3	Greenfield Threading	**15J838**
¼"-20	⅜ in	2 ½ in	H3	Cleveland	**435U18**
¼"-20	⅜ in	2 ½ in	H3	Greenfield Threading	**15J837**
¼"-20	⅜ in	2 ½ in	H3	Greenfield Threading	**15J922**
¼"-20	⅜ in	2 ½ in	H3	OSG	**2LXT5**
¼"-20	11/16 in	2 21/32 in	H3	OSG	**2TTC1**
¼"-20	1 in	2 ½ in	H3 / 3B	Westward	**5TWD1**
5/16"-18	11/16 in	2 29/32 in	H3	Greenfield Threading	**15J848**
5/16"-18	13/16 in	2 27/32 in	H3	OSG	**33YE84**
5/16"-18	1 ⅛ in	2 23/32 in	H3 / 3B	Westward	**5TWD3**
UNC, 3 Flutes					
5/16"-18	11/16 in	2 23/32 in	H3	Greenfield Threading	**15J849**
⅜"-16	¾ in	2 15/16 in	H2 / 2B	Greenfield Threading	**15J857**
⅜"-16	¾ in	2 15/16 in	H2 / 2B	Greenfield Threading	**15J856**
⅜"-16	¾ in	2 15/16 in	H3 / 2B	Cleveland	**435U43**
⅜"-16	⅞ in	3 3/32 in	H3	OSG	**2VZR1**
⅜"-16	1 ¼ in	2 15/16 in	H3 / 3B	Westward	**5TWD5**
7/16"-14	1 7/16 in	3 5/32 in	H3 / 3B	Westward	**5TWD7**
½"-13	15/16 in	3 ⅜ in	JIS 2	Greenfield Threading	**15J873**
½"-13	15/16 in	3 11/32 in	JIS 2	OSG	**2VZP9**
½"-13	15/16 in	3 ⅜ in	JIS 2	Cleveland	**435U59**
½"-13	1 21/32 in	3 ⅜ in	H3 / 3B	Westward	**5TWD9**
⅝"-11	1 1/16 in	3 25/32 in	2B	Greenfield Threading	**15J878**
⅝"-11	1 13/16 in	3 13/16 in	H3 / 3B	Westward	**5TWE1**
⅝"-11	1 1/16 in	3 25/32 in	2B	OSG	**2VZT5**
⅝"-11	1 1/16 in	3 25/32 in	2B	OSG	**2VZN9**
¾"-10	1 3/16 in	4 ¼ in	H5 / 2B, 3B	Greenfield Threading	**15J883**
¾"-10	1 3/16 in	4 ¼ in	H3 / 2B	Greenfield Threading	**15J882**
¾"-10	1 3/16 in	4 ¼ in	H3	OSG	**2VZT2**
¾"-10	2 in	4 ¼ in	H3 / 3B	Westward	**5TWE3**
UN Fine, Bright (Uncoated)					
UNF, 2 Flutes					
#10-32	½ in	2 ⅜ in	H3	Greenfield Threading	**15J830**
#10-32	½ in	2 ⅜ in	H3	Greenfield Threading	**15J829**
#10-32	½ in	2 ⅜ in	H3	Greenfield Threading	**15J921**
#10-32	½ in	2 11/32 in	H3	OSG	**33YG16**
#10-32	½ in	2 ⅜ in	H3	Greenfield Threading	**15J931**
#10-32	9/16 in	2 ½ in	H3	OSG	**2VZW1**
#10-32	9/16 in	2 ½ in	H3	OSG	**2VZV8**
#10-32	9/16 in	2 ½ in	H3	OSG	**2TTD9**
#10-32	⅞ in	2 ⅜ in	H3 / 3B	Westward	**5TWD0**
¼"-28	⅜ in	2 ½ in	6H	Greenfield Threading	**15J843**
¼"-28	11/16 in	2 21/32 in	6H	OSG	**2TTC4**
¼"-28	1 in	2 ½ in	H3 / 3B	Westward	**5TWD2**
5/16"-24	11/16 in	2 23/32 in	H3	Greenfield Threading	**15J853**
UNF, 3 Flutes					
⅜"-24	⅞ in	3 3/32 in	6H	OSG	**2VZR7**
7/16"-20	⅞ in	3 ⅛ in	6H	OSG	**2VZP5**
7/16"-20	⅞ in	3 5/32 in	6H	Cleveland	**435U54**
½"-20	15/16 in	3 ⅜ in	6H	Greenfield Threading	**15J875**
½"-20	1 21/32 in	3 ⅜ in	H3 / 3B	Westward	**5TWE0**
5/8"-18	1 1/16 in	3 25/32 in	2B	OSG	**2VZT9**
5/8"-18	1 1/16 in	3 25/32 in	2B	Greenfield Threading	**15J885**
¾"-16	1 3/16 in	4 ¼ in	H3	OSG	**2VZR9**
¾"-16	1 3/16 in	4 ¼ in	H3 / 2B	Greenfield Threading	**15J886**

Additional tap sizes, materials, and coatings are available on Grainger.com®.

WIDIA GTD · WALTER PROTOTYP

High-Performance Spiral-Point Taps

- Right-hand thread direction
- Plug chamfer

High-performance spiral-point taps create internal threads in through holes and are harder and more wear-resistant than general purpose spiral-point taps. They provide better precision and accuracy than general purpose spiral-point taps when used for threading holes in designated materials.



Nickel & Titanium Tapping, Bright (Uncoated) UNC, 2 Flutes No. 4GT93

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Multiple Materials Tapping, Black Oxide					
Metric Coarse, 3 Flutes					
M10x1.5	18.00mm	74.00mm	6H	OSG	**2PJF9**
M10x1.5	19.10mm	74.30mm	6H	Widia GTD	**2XTJ3**
M12x1.75	21.00mm	85.00mm	6H	OSG	**2PJF3**
M12x1.75	23.90mm	85.90mm	6H	Widia GTD	**2XTJ5**
M16x2	24.00mm	96.00mm	2B	OSG	**2PJC3**
M16x2	27.70mm	96.80mm	2B	Widia GTD	**2XTJ9**
M22x2.5	30.00mm	119.00mm	D8	OSG	**2PJC5**
M3x0.5	6.00mm	49.00mm	JIS 2	OSG	**2PJE5**
M4x0.7	8.00mm	54.00mm	JIS 2	OSG	**2PJE3**
M5x0.8	9.00mm	60.00mm	D4	OSG	**2PJD3**
M6x1	11.00mm	63.00mm	D5	OSG	**2PJD7**
M8x1.25	15.00mm	69.00mm	H3	OSG	**2PJD8**
M8x1.25	17.50mm	68.90mm	H3	Widia GTD	**2XTJ1**
Metric Coarse, 4 Flutes					
M24x3	36.00mm	124.00mm	JIS 2	OSG	**2PJD1**
M30x3.5	42.00mm	138.00mm	D9	OSG	**2PJC9**
Metric Fine, 3 Flutes					
M10x1.25	18.90mm	74.10mm	JIS 2	Widia GTD	**2XTJ2**
M12x1.25	23.90mm	85.80mm	6H	Widia GTD	**2XTJ4**
M12x1.5	21.00mm	85.00mm	6H	OSG	**2PJF5**
M14x1.5	25.40mm	91.20mm	D6	Widia GTD	**2XTJ6**
M16x1.5	24.00mm	96.00mm	2B	OSG	**2PJF7**
M16x1.5	27.70mm	96.80mm	2B	Widia GTD	**2XTJ8**
M18x1.5	27.70mm	102.40mm	D6	Widia GTD	**2XTK1**
M22x1.5	30.00mm	119.00mm	D6	OSG	**2PJC2**
M24x2	31.00mm	124.70mm	D7	Widia GTD	**53NC51**
M8x1	15.00mm	69.00mm	6H	OSG	**2PJD4**
M8x1	17.50mm	68.70mm	6H	Widia GTD	**2XTH9**
Metric Fine, 4 Flutes					
M24x1.5	36.00mm	124.00mm	D6	OSG	**2PJD2**
UNC, 2 Flutes					
#6-32	5⁄16 in	2 in	H3	OSG	**2PHU8**
#6-32	3⁄8 in	1 31⁄32 in	H3	Widia GTD	**1W182**
#8-32	3⁄8 in	2 3⁄32 in	JIS 2	Widia GTD	**1W184**
UNC, 3 Flutes					
#10-24	7⁄16 in	2 11⁄32 in	H3	OSG	**2PHW7**
#8-32	5⁄16 in	2 3⁄32 in	JIS 2	OSG	**2PHW4**
1⁄4"-20	9⁄16 in	2 1⁄2 in	H3	OSG	**2PHP1**
1⁄4"-20	9⁄16 in	2 1⁄2 in	H3	OSG	**2PHR8**
1⁄4"-20	5⁄8 in	2 1⁄2 in	H3	Widia GTD	**1W188**
1⁄4"-20	5⁄8 in	2 1⁄2 in	H3	Widia GTD	**11W558**
1⁄4"-20	5⁄8 in	6 in	H3	Widia GTD	**53NP61**
5⁄16"-18	5⁄8 in	2 23⁄32 in	H3	OSG	**2PHP9**
5⁄16"-18	11⁄16 in	2 23⁄32 in	H3	Widia GTD	**1W192**
3⁄8"-16	3⁄4 in	2 29⁄32 in	H3	OSG	**2PHP6**
3⁄8"-16	3⁄4 in	2 15⁄16 in	H3	Widia GTD	**1W196**
3⁄8"-16	3⁄4 in	2 29⁄32 in	H5	OSG	**2PJA2**
3⁄8"-16	3⁄4 in	6 in	H3	Widia GTD	**53NP65**
7⁄16"-14	7⁄8 in	3 5⁄32 in	H3	Widia GTD	**1W200**
1⁄2"-13	7⁄8 in	3 11⁄32 in	JIS 2	OSG	**2PHT6**
1⁄2"-13	15⁄16 in	3 3⁄8 in	JIS 2	Widia GTD	**1W204**
9⁄16"-12	1 in	3 9⁄16 in	H3	Widia GTD	**1W216**
5⁄8"-11	1 1⁄16 in	3 25⁄32 in	2B	OSG	**2PHU4**
5⁄8"-11	1 1⁄16 in	3 25⁄32 in	2B	Widia GTD	**1W208**
3⁄4"-10	1 3⁄16 in	4 1⁄4 in	H3	OSG	**2PHU1**
7⁄8"-9	1 5⁄16 in	4 21⁄32 in	H5	OSG	**2PHX3**
UNC, 4 Flutes					
1"-8	1 1⁄2 in	5 3⁄32 in	H5	OSG	**2PHX9**
2"-4-1/2	2 5⁄8 in	7 5⁄8 in	JIS 2	Widia GTD	**53NC36**
UNF, 2 Flutes					
#10-32	1⁄2 in	2 11⁄32 in	H3	Widia GTD	**1W186**
#10-32	1⁄2 in	6 in	H3	Widia GTD	**53NP60**
UNF, 3 Flutes					
#10-32	7⁄16 in	2 11⁄32 in	H3	OSG	**2PHX2**
5⁄16"-24	11⁄16 in	2 23⁄32 in	H3	Widia GTD	**1W194**
1⁄2"-20	7⁄8 in	3 11⁄32 in	6H	OSG	**2PHT7**
9⁄16"-18	1 in	3 9⁄16 in	2B	OSG	**2PHY6**
5⁄8"-18	1 1⁄16 in	3 25⁄32 in	2B	OSG	**2PHT8**
3⁄4"-16	1 3⁄16 in	4 1⁄4 in	H3	Widia GTD	**1W214**
3⁄4"-16	1 3⁄16 in	4 1⁄4 in	H3	OSG	**2PHU2**
7⁄8"-14	1 5⁄16 in	4 11⁄16 in	H4	Widia GTD	**11W536**
UNF, 4 Flutes					
1"-12	1 1⁄2 in	5 3⁄32 in	H4	OSG	**2PHT2**
1 1⁄4"-12	1 11⁄16 in	5 3⁄4 in	JIS 2	Widia GTD	**53NC29**
1 1⁄4"-12	2 9⁄16 in	5 3⁄4 in	H5	OSG	**2PHX6**
Nickel & Titanium Tapping, Bright (Uncoated)					
UNC, 2 Flutes					
#10-24	7⁄8 in	2 3⁄8 in	H3	Widia GTD	**4GT93**
#12-24	15⁄16 in	2 3⁄8 in	H2 / 2B	Widia GTD	**4GT95**
#4-40	9⁄16 in	1 7⁄8 in	JIS 2	Widia GTD	**4GT84**
#6-32	11⁄16 in	2 in	H3	Widia GTD	**4GT89**
#8-32	3⁄4 in	2 1⁄8 in	JIS 2	Widia GTD	**4GT91**
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**4GT97**
5⁄16"-18	1 1⁄8 in	2 23⁄32 in	H3	Widia GTD	**4GT99**
UNC, 3 Flutes					
3⁄8"-16	1 1⁄4 in	2 15⁄16 in	H2 / 2B	Widia GTD	**4GV02**
7⁄16"-14	1 7⁄16 in	3 5⁄32 in	H3	Widia GTD	**4GV04**
1⁄2"-13	1 21⁄32 in	3 3⁄8 in	JIS 2	Widia GTD	**4GV06**
5⁄8"-11	1 13⁄16 in	3 13⁄16 in	2B	Widia GTD	**4GV08**
3⁄4"-10	1 13⁄16 in	4 1⁄4 in	H2 / 2B	Widia GTD	**4GV10**
UNF, 2 Flutes					
#10-32	7⁄8 in	2 3⁄8 in	H3	Widia GTD	**4GT94**
1⁄4"-28	1 in	2 1⁄2 in	6H	Widia GTD	**4GT98**
5⁄16"-24	1 1⁄8 in	2 23⁄32 in	H3	Widia GTD	**4GV01**
UNF, 3 Flutes					
3⁄8"-24	1 1⁄4 in	2 15⁄16 in	6H	Widia GTD	**4GV03**
7⁄16"-20	1 7⁄16 in	3 5⁄32 in	6H	Widia GTD	**4GV05**
1⁄2"-20	1 21⁄32 in	3 3⁄8 in	6H	Widia GTD	**4GV07**
9⁄16"-18	1 13⁄16 in	3 13⁄16 in	2B	Widia GTD	**4GV09**
Steel Tapping, Unified Thread Standard, Bright (Uncoated)					
BSW, 3 Flutes					
1⁄2"-12	7⁄8 in	4 5⁄16 in	—	Walter Prototyp	**429C46**
BSW, 4 Flutes					
1"-8	36.00mm	160.00mm	—	Walter Prototyp	**429C45**
Metric, 2 Flutes					
M6.3x1	25.40mm	63.50mm	H3	Widia GTD	**53MM66**
Metric Coarse, 2 Flutes					
M2x0.4	11.11mm	44.45mm	JIS 2	Widia GTD	**1C779**
M3.5x0.6	17.46mm	50.80mm	JIS 2	Widia GTD	**1C785**
M3x0.5	15.88mm	49.21mm	JIS 2	Widia GTD	**1C783**
M4x0.7	19.05mm	53.98mm	JIS 2	Widia GTD	**1C787**
M5x0.8	22.23mm	60.33mm	D4	Widia GTD	**1C793**
M6x1	25.40mm	63.50mm	D5	Widia GTD	**1C795**
M8x1.25	28.58mm	69.06mm	H3	Widia GTD	**1C801**
Metric Coarse, 3 Flutes					
M10x1.5	20.00mm	100.00mm	6H	Walter Prototyp	**428R92**
M10x1.5	31.75mm	74.61mm	6H	Widia GTD	**1C803**
M12x1.75	42.06mm	85.85mm	6H	Widia GTD	**1C805**
M14x2	42.06mm	91.19mm	6H	Widia GTD	**1C807**
M16x2	46.05mm	96.77mm	2B	Widia GTD	**1C809**
M20x2.5	50.80mm	113.54mm	D7	Widia GTD	**1C815**
Metric Coarse, 4 Flutes					
M27x3	36.00mm	160.00mm	D7, D8	Walter Prototyp	**428U69**
M30x3.5	35.00mm	180.00mm	D8, D9	Walter Prototyp	**428U71**
M33x3.5	42.00mm	180.00mm	D8, D9	Walter Prototyp	**428U72**
M36x4	48.00mm	200.00mm	D8, D9	Walter Prototyp	**428U73**
M39x4	48.00mm	200.00mm	D8, D9	Walter Prototyp	**428U74**
M42x4.5	54.00mm	200.00mm	D8, D9	Walter Prototyp	**428U76**
M45x4.5	54.00mm	220.00mm	H3	Walter Prototyp	**428U77**
M48x5	60.00mm	250.00mm	H3	Walter Prototyp	**428U78**
M56x5.5	66.00mm	250.00mm	H3	Walter Prototyp	**428U81**
Metric Fine, 3 Flutes					
M10x1	20.00mm	90.00mm	6H	Walter Prototyp	**428X94**
Metric Fine, 4 Flutes					
M12x0.5	21.00mm	100.00mm	H3	Walter Prototyp	**428X31**
M12x1.5	21.00mm	100.00mm	6H	Walter Prototyp	**428W99**
M14x1	21.00mm	100.00mm	H3	Walter Prototyp	**428X35**
M14x1.25	21.00mm	100.00mm	H3	Walter Prototyp	**428X36**
M18x1	24.00mm	110.00mm	H3	Walter Prototyp	**428X40**
M18x1.5	24.00mm	110.00mm	6H	Walter Prototyp	**428X04**
M18x2	30.00mm	125.00mm	H3	Walter Prototyp	**428X42**
M20x1.5	24.00mm	125.00mm	D5, D6	Walter Prototyp	**428X05**
M20x1.5	24.00mm	125.00mm	D5, D6	Walter Prototyp	**428X44**
M24x1.5	26.00mm	140.00mm	D5, D6	Walter Prototyp	**428X50**
M25x1.5	26.00mm	140.00mm	H3	Walter Prototyp	**428X52**
M30x2	26.00mm	150.00mm	6H	Walter Prototyp	**428X60**
M32x2	26.00mm	150.00mm	H3	Walter Prototyp	**428X62**
M33x2	28.00mm	160.00mm	6H	Walter Prototyp	**428X64**
M36x3	39.00mm	200.00mm	D7, D8	Walter Prototyp	**428X68**
M39x2	28.00mm	170.00mm	6H	Walter Prototyp	**428X70**
M42x3	42.00mm	200.00mm	D7, D8	Walter Prototyp	**428X75**
M48x3	45.00mm	225.00mm	H3	Walter Prototyp	**428X78**
Metric Fine, 5 Flutes					
M38x1.5	28.00mm	170.00mm	H3	Walter Prototyp	**428X69**
M42x1.5	28.00mm	170.00mm	H3	Walter Prototyp	**428X73**
M45x1.5	28.00mm	180.00mm	H3	Walter Prototyp	**428X76**
UNC, 3 Flutes					
1⁄4"-20	15.00mm	80.00mm	H3	Walter Prototyp	**428Z17**
5⁄16"-18	18.00mm	90.00mm	H3	Walter Prototyp	**428Z24**
3⁄8"-16	20.00mm	100.00mm	JIS 2	Walter Prototyp	**428Z21**
1⁄2"-13	23.00mm	110.00mm	JIS 2	Walter Prototyp	**428Z34**
5⁄8"-11	25.00mm	110.00mm	2B	Walter Prototyp	**428Z36**
3⁄4"-10	30.00mm	125.00mm	H6, H7 / 2B	Walter Prototyp	**428Z35**
7⁄8"-9	30.00mm	140.00mm	H6, H7 / 2B	Walter Prototyp	**428Z38**
UNC, 4 Flutes					
1 1⁄4"-7	42.00mm	180.00mm	JIS 2	Walter Prototyp	**428Z32**
1 1⁄2"-6	48.00mm	200.00mm	JIS 2	Walter Prototyp	**428Z31**
UNC, UNJC, 2 Flutes					
#10-24	7⁄8 in	2 3⁄8 in	H3	Widia GTD	**4AKH8**
#10-24	7⁄8 in	2 3⁄8 in	H3	Widia GTD	**4CPJ5**
#12-24	15⁄16 in	2 3⁄8 in	H3	Widia GTD	**4CPJ7**
#2-56	7⁄16 in	1 3⁄4 in	JIS 2	Widia GTD	**4AKH2**
#3-48	1⁄2 in	1 13⁄16 in	JIS 2	Widia GTD	**4AKH3**
#4-40	9⁄16 in	1 7⁄8 in	JIS 2	Widia GTD	**4AKH4**
#5-40	5⁄8 in	1 15⁄16 in	H3	Widia GTD	**4AKH5**
#6-32	11⁄16 in	2 in	H3	Widia GTD	**4AKH6**
#6-32	11⁄16 in	2 in	H3	Widia GTD	**4CPJ1**
#8-32	3⁄4 in	2 1⁄8 in	JIS 2	Widia GTD	**4AKH7**
#8-32	3⁄4 in	2 1⁄8 in	JIS 2	Widia GTD	**4CPJ3**
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**4AKK0**
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**4CPK1**
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**4CPJ8**
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**53MM96**
1⁄4"-20	1 in	6 in	H3	Widia GTD	**2XTW4**
5⁄16"-18	1 1⁄8 in	2 23⁄32 in	H3	Widia GTD	**4AKK2**
5⁄16"-18	1 1⁄8 in	2 23⁄32 in	H3	Widia GTD	**53MM89**
5⁄16"-18	1 1⁄8 in	2 23⁄32 in	H3	Widia GTD	**53MM88**
5⁄16"-18	1 1⁄8 in	6 in	H3	Widia GTD	**2XTW6**
UNC, UNJC, 3 Flutes					
1⁄4"-20	1 in	2 1⁄2 in	H3	Widia GTD	**4CPJ9**
3⁄8"-16	1 1⁄4 in	2 15⁄16 in	H3	Widia GTD	**4AKK4**
3⁄8"-16	1 1⁄4 in	2 15⁄16 in	H2	Widia GTD	**53MM80**
3⁄8"-16	1 1⁄4 in	2 15⁄16 in	H1	Widia GTD	**53MM81**
3⁄8"-16	1 1⁄4 in	6 in	H3 / 2B, 3B	Widia GTD	**2XTW8**
7⁄16"-14	1 7⁄16 in	3 5⁄32 in	H3	Widia GTD	**4AKK6**
1⁄2"-13	1 21⁄32 in	3 3⁄8 in	JIS 2	Widia GTD	**4AKK8**
5⁄8"-11	1 13⁄16 in	3 13⁄16 in	2B	Widia GTD	**1C771**
3⁄4"-10	2 in	4 1⁄4 in	H3	Widia GTD	**1C775**
UNEF, 3 Flutes					
5⁄16"-32	18.00mm	90.00mm	H3	Walter Prototyp	**429A23**
UNEF, 4 Flutes					
1⁄2"-28	21.00mm	100.00mm	2B / 2B	Walter Prototyp	**429A18**
5⁄8"-24	21.00mm	100.00mm	2B	Walter Prototyp	**429A24**
UNF, 2 Flutes					
#10-32	13.00mm	70.00mm	H3	Walter Prototyp	**428Z96**

CONTINUED

WIDIA GTD WALTER PROTOTYP

High-Performance Spiral-Point Taps

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Steel Tapping, Unified Thread Standard, Bright (Uncoated) (Cont.)					
UNF, 3 Flutes					
¼"-28	15.00mm	80.00mm	6H	Walter Prototyp	**428Z95**
UNF, 4 Flutes					
⅝"-18	21.00mm	100.00mm	JIS 2	Walter Prototyp	**429A37**
⅞"-14	24.00mm	125.00mm	H5, H6 / 2B	Walter Prototyp	**429A39**
1⅛"-12	26.00mm	150.00mm	JIS 2	Walter Prototyp	**429A31**
1¼"-12	26.00mm	150.00mm	JIS 2	Walter Prototyp	**429A30**
1⅜"-12	28.00mm	170.00mm	JIS 2	Walter Prototyp	**429A32**
1½"-12	28.00mm	170.00mm	JIS 2	Walter Prototyp	**429A29**
UNF, UNJF, 2 Flutes					
#10-32	⅞ in	2 ⅜ in	H3	Widia GTD	**4AKH9**
#10-32	⅞ in	2 ⅜ in	H3	Widia GTD	**4CPJ6**
#10-32	⅞ in	2 ⅜ in	H3	Widia GTD	**53MM99**
#10-32	⅞ in	6 in	H3	Widia GTD	**2XTW3**
#6-40	11/16 in	2 in	H3	Widia GTD	**4CPJ2**
¼"-28	1 in	2 ½ in	6H	Widia GTD	**4AKK1**
5/16"-24	1 ⅛ in	2 23/32 in	H3	Widia GTD	**4AKK3**
UNF, UNJF, 3 Flutes					
⅜"-24	1 ¼ in	2 15/16 in	6H	Widia GTD	**4AKK5**
7/16"-20	1 7/16 in	3 3/32 in	6H	Widia GTD	**4AKK7**
½"-20	1 21/32 in	3 ⅜ in	6H	Widia GTD	**4AKK9**
⅝"-18	1 13/16 in	3 13/16 in	2B	Widia GTD	**1C773**

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Steel Tapping, Unified Thread Standard, TiN					
Metric, 3 Flutes					
M12x1.25	9/16 in	2 ½ in	H3	OSG	**6VXR9**
M12x1.25	⅞ in	3 11/32 in	JIS 2	OSG	**6VXT7**
Metric Coarse, 2 Flutes					
M3x0.5	15.88mm	49.21mm	JIS 2	Widia GTD	**1E810**
M4x0.7	19.05mm	53.98mm	JIS 2	Widia GTD	**1E812**
M5x0.8	22.23mm	60.33mm	JIS 2	Widia GTD	**1E814**
M6x1	25.40mm	63.50mm	D5	Widia GTD	**1E816**
M8x1.25	28.58mm	69.06mm	H3	Widia GTD	**1E818**
Metric Coarse, 3 Flutes					
M10x1.5	31.75mm	74.61mm	6H	Widia GTD	**1E820**
M12x1.75	42.06mm	85.85mm	6H	Widia GTD	**1E822**
Metric Fine, 3 Flutes					
M12x1.25	22.00mm	100.00mm	6H	Widia GTD	**53MT29**
Metric Fine, 4 Flutes					
M20x1.5	24.00mm	125.00mm	D5, D6	Walter Prototyp	**428X14**
M24x2	26.00mm	140.00mm	D6, D7	Walter Prototyp	**428X17**
M30x1.5	26.00mm	150.00mm	6H	Walter Prototyp	**428X19**
UNC, 2 Flutes					
#12-24	15/16 in	2 ⅜ in	H3	Widia GTD	**1E592**
#2-56	7/16 in	1 ¾ in	JIS 2	Widia GTD	**1E568**
#4-40	9/16 in	1 ⅞ in	JIS 2	Widia GTD	**1E572**
#5-40	⅝ in	1 15/16 in	H3	Widia GTD	**1E574**
#6-32	11/16 in	2 in	H3	Widia GTD	**1E578**
#6-32	11/16 in	2 in	H3	Widia GTD	**1E576**
#8-32	¾ in	2 ⅛ in	JIS 2	Widia GTD	**1E584**

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
#8-32	¾ in	2 ⅛ in	JIS 2	Widia GTD	**1E582**
¼"-20	1 in	2 ½ in	H3	Widia GTD	**1E596**
UNC, 3 Flutes					
#6-32	11.00mm	56.00mm	H3, H4 / 2B	Walter Prototyp	**428Z16**
¼"-20	1 in	2 ½ in	H3	Widia GTD	**1E598**
½"-13	23.00mm	110.00mm	JIS 2	Walter Prototyp	**428Z27**
UNC, UNJC, 2 Flutes					
#10-24	⅞ in	2 ⅜ in	H3	Widia GTD	**1E586**
¼"-20	1 in	2 ½ in	H3	Widia GTD	**1E594**
¼"-20	1 in	2 ½ in	H3	Widia GTD	**1E600**
5/16"-18	1 ⅛ in	2 23/32 in	H3	Widia GTD	**1E604**
UNC, UNJC, 3 Flutes					
⅜"-16	1 ¼ in	2 15/16 in	H3	Widia GTD	**1E608**
7/16"-14	1 7/16 in	3 3/32 in	H3	Widia GTD	**1E612**
½"-13	1 21/32 in	3 ⅜ in	JIS 2	Widia GTD	**1E616**
⅝"-11	1 13/16 in	3 13/16 in	2B	Widia GTD	**2XTV2**
¾"-10	2 in	4 ¼ in	H3	Widia GTD	**2XTV3**
UNF, 2 Flutes					
#10-32	⅞ in	2 ⅜ in	H3	Widia GTD	**1E590**
#10-32	⅞ in	2 ⅜ in	H3	Widia GTD	**1E588**
UNF, UNJF, 2 Flutes					
#6-40	11/16 in	2 in	H3	Widia GTD	**1E580**
¼"-28	1 in	2 ½ in	6H	Widia GTD	**1E602**
5/16"-24	1 ⅛ in	2 23/32 in	H3	Widia GTD	**1E606**
UNF, UNJF, 3 Flutes					
⅜"-24	1 ¼ in	2 15/16 in	6H	Widia GTD	**1E610**
7/16"-20	1 7/16 in	3 3/32 in	6H	Widia GTD	**1E614**
½"-20	1 21/32 in	3 ⅜ in	6H	Widia GTD	**1E618**



Diamond-Coated
Metric Coarse, 3 Flutes
No. 33YY35

WALTER PROTOTYP WIDIA GTD

Carbide Straight-Flute Machine Taps

- Right-hand thread direction

Straight flute machine taps are installed in a toolholder on a machine and are used to create or repair internal threads in blind holes and through holes. These carbide taps provide excellent hardness and heat resistance and can be used for tapping hard materials at high speeds.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Bright Finish, Coolant-Through					
Metric Coarse, 3 Flutes					
M10x1.5	20.00mm	140.00mm	Bottoming	Walter Prototyp	**427J16**
M6x1	15.00mm	80.00mm	Bottoming	Walter Prototyp	**427J17**
M7x1	15.00mm	100.00mm	Bottoming	Walter Prototyp	**427J18**
M8x1.25	18.00mm	120.00mm	Bottoming	Walter Prototyp	**427J19**
Metric Coarse, 4 Flutes					
M10x1.5	24.00mm	100.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	**427J24**
M12x1.75	23.00mm	140.00mm	Bottoming	Walter Prototyp	**427J44**
M5x0.8	16.00mm	70.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	**427J25**
M6x1	19.00mm	80.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	**427J26**
M8x1.25	22.00mm	90.00mm	Semi-Bottoming, Modified Bottoming	Walter Prototyp	**427J27**
Bright Finish, DIN/ANSI					
M4x0.7	10.00mm	54.00mm	Bottoming	OSG	**33YY80**
M5x0.8	11.00mm	60.00mm	Bottoming	OSG	**33YY81**
M6x1	14.00mm	63.00mm	Bottoming	OSG	**33YY82**
UNC, 3 Flutes					
#4-40	¼ in	2 3/16 in	Bottoming	OSG	**33YY57**
#6-32	5/16 in	2 3/16 in	Bottoming	OSG	**33YY58**
#8-32	5/16 in	2 15/32 in	Bottoming	OSG	**33YY59**
¼"-20	9/16 in	3 ⅛ in	Bottoming	OSG	**33YY62**
UNC, 4 Flutes					
½"-13	⅞ in	4 5/16 in	Bottoming	OSG	**33YY68**
UNF, 3 Flutes					
#10-32	½ in	2 ¾ in	Bottoming	OSG	**33YY61**
UNF, 4 Flutes					
½"-20	⅞ in	4 5/16 in	Bottoming	OSG	**33YY69**

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
CrC/C-Coated, Coolant-Through					
Metric, 3 Flutes					
M10x1.5	15.00mm	100.00mm	Bottoming	Widia Gtd	**53NM21**
M10x1.5	18.00mm	90.00mm	Bottoming	Widia Gtd	**53NM35**
M12x1.75	21.00mm	100.00mm	Bottoming	Widia Gtd	**53NM37**
M6x1	10.00mm	80.00mm	Bottoming	Widia Gtd	**53NM19**
M6x1	12.00mm	70.00mm	Bottoming	Widia Gtd	**53NM33**
M8x1.25	10.00mm	90.00mm	Bottoming	Widia Gtd	**53NM20**
M8x1.25	15.00mm	80.00mm	Bottoming	Widia Gtd	**53NM34**
Diamond-Coated					
Metric Coarse, 3 Flutes					
M3x0.5	11.00mm	46.00mm	Modified Bottoming	OSG	**33YY35**
Metric Coarse, 4 Flutes					
M4x0.7	13.00mm	52.00mm	Modified Bottoming	OSG	**33YY36**
M5x0.8	16.00mm	60.00mm	Modified Bottoming	OSG	**33YY37**
M6x1	19.00mm	62.00mm	Modified Bottoming	OSG	**33YY38**
M8x1.25	22.00mm	70.00mm	Modified Bottoming	OSG	**33YY39**
Metric Coarse, 5 Flutes					
M10x1.5	24.00mm	75.00mm	Modified Bottoming	OSG	**33YY40**
M12x1.75	29.00mm	82.00mm	Modified Bottoming	OSG	**33YY41**
TiCN-Coated, DIN/ANSI					
UNC, 4 Flutes					
#10-24	7/16 in	2 ¾ in	Semi-Bottoming, Modified Bottoming	OSG	**33YX74**
#4-40	¼ in	2 3/16 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX71**
#6-32	5/16 in	2 3/16 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX72**
#8-32	5/16 in	2 15/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX73**
UNC, 5 Flutes					
¼"-20	9/16 in	3 ⅛ in	Semi-Bottoming, Modified Bottoming	OSG	**33PE04**
5/16"-18	⅝ in	3 17/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX76**
⅜"-16	¾ in	3 29/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33PE05**
7/16"-14	13/16 in	3 29/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX79**
½"-13	⅞ in	4 5/16 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX81**
UNF, 5 Flutes					
¼"-28	9/16 in	3 ⅛ in	Semi-Bottoming, Modified Bottoming	OSG	**33YX75**
5/16"-24	⅝ in	3 17/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX77**
⅜"-24	¾ in	3 29/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX78**
7/16"-20	13/16 in	3 29/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX80**
½"-20	15/16 in	3 29/32 in	Semi-Bottoming, Modified Bottoming	OSG	**33YX82**

For more information on taps, see page 2261.

Straight-Flute Hand Taps

- Right-hand thread direction

Straight-flute hand taps are manually turned with a tap wrench to create or repair internal threads in blind holes and through holes.



High Speed Steel, TiN Coated
Metric Coarse, 4 Flutes
No. 11W669

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Carbon Steel, Bright (Uncoated) Finish					
Metric Coarse, 4 Flutes					
M4x0.7	19.05mm	53.00mm	Plug	Irwin Hanson	**19T136**
M5x0.8	22.00mm	60.00mm	Plug	Irwin Hanson	**19T138**
M6x1	25.00mm	64.00mm	Plug	Irwin Hanson	**19T140**
UNC, 3 Flutes					
#10-24	⅞ in	2 ⅜ in	Taper	Westward	**2LXD4**
#6-32	1 1/16 in	2 in	Taper	Westward	**2LXD2**
#6-32	1 1/16 in	2 in	Plug	Irwin Hanson	**19T113**
#8-32	¾ in	2 ⅛ in	Taper	Westward	**2LXD3**
¼"-20	1 in	2 ½ in	Bottoming	Westward	**2LXK3**
¼"-20	1 in	2 ½ in	Plug	Westward	**2LXG4**
UNC, 4 Flutes					
#10-24	⅞ in	2 ⅜ in	Plug	Irwin Hanson	**19T115**
¼"-20	1 in	2 ½ in	Taper	Westward	**2LXD7**
¼"-20	1 in	2 ½ in	Plug	Irwin Hanson	**19T118**
5/16"-18	1 ⅛ in	2 23/32 in	Plug	Irwin Hanson	**19T120**
5/16"-18	11/8 in	2 23/32 in	Taper	Westward	**2LXE2**
⅜"-16	1 ¼ in	2 15/16 in	Plug	Irwin Hanson	**19T122**
⅜"-16	11/4 in	2 15/16 in	Taper	Westward	**2LXE4**
½"-13	121/32 in	3 ⅜ in	Taper	Westward	**2LXE8**
⅝"-11	1 13/16 in	3 13/16 in	Plug	Irwin Hanson	**19T130**
⅝"-11	113/16 in	3 13/16 in	Taper	Westward	**2LXF3**
⅝"-11	113/16 in	3 13/16 in	Plug	Westward	**2LXH7**
¾"-10	2 in	4 ¼ in	Taper	Westward	**2LXF5**
¾"-10	2 in	4 ¼ in	Plug	Westward	**2LXH9**
1"-8	21/2 in	5 ⅛ in	Plug	Westward	**2LXJ4**
UNF, 3 Flutes					
#10-32	⅞ in	2 ⅜ in	Taper	Westward	**2LXD5**
UNF, 4 Flutes					
#10-32	⅞ in	2 ⅜ in	Plug	Irwin Hanson	**19T116**
¼"-28	1 in	2 ½ in	Plug	Irwin Hanson	**19T119**
¾"-16	2 in	4 ¼ in	Taper	Westward	**2LXF6**

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
UNS, 4 Flutes					
1"-14	21/2 in	5 ⅛ in	Plug	Westward	**2LXJ5**
High Speed Steel, Black Oxide Finish					
Metric Fine, 4 Flutes					
M20x1.5	37.00mm	113.00mm	Bottoming	Osg	**33YV49**
UNC, 2 Flutes					
¼"-20	13/16 in	2 ½ in	Plug	Osg	**33YU67**
UNC, 4 Flutes					
¼"-20	1 1/16 in	2 ½ in	Taper	Osg	**33YL94**
½"-13	1 ⅛ in	3 11/32 in	Taper	Osg	**33YM24**
5/16"-11	1 5/16 in	3 25/32 in	Bottoming	Osg	**2TRY9**
5/16"-11	1 5/16 in	3 25/32 in	Plug	Osg	**2TRY7**
5/16"-11	1 5/16 in	3 25/32 in	Taper	Osg	**33YM42**
¾"-10	1 ½ in	4 ¼ in	Plug	Osg	**2TTA1**
1"-8	1 13/16 in	5 3/32 in	Bottoming	Osg	**2TRW5**
1"-8	1 13/16 in	5 3/32 in	Plug	Osg	**2TRY1**
1¼"-7	2 ⅛ in	5 ¾ in	Bottoming	Osg	**33YN58**
1½ "-6	2 ½ in	6 11/32 in	Bottoming	Osg	**33YN84**
UNC, UNJC, 4 Flutes					
½"-13	1 21/32 in	3 ⅜ in	Bottoming	Widia Gtd	**12F019**
5/16"-11	1 13/16 in	3 13/16 in	Bottoming	Widia Gtd	**12F014**
¾"-10	2 in	4 ¼ in	Bottoming	Widia Gtd	**12F012**
1"-8	2 ½ in	5 ⅛ in	Bottoming	Widia Gtd	**12G943**
UNF, 4 Flutes					
#10-32	9/16 in	2 11/32 in	Plug	Osg	**4HKN2**
5/16"-18	1 5/16 in	3 25/32 in	Bottoming	Osg	**2TRX9**
1⅛"-12	1 13/16 in	5 13/32 in	Taper	Osg	**33YN51**
High Speed Steel, TiN-Coated					
Metric Coarse, 4 Flutes					
M10x1.5	31.75mm	74.61mm	Bottoming	Widia Gtd	**11W669**
UNC, 4 Flutes					
¼"-20	1 in	2 ½ in	Plug	Greenfield Threading	**15J590**
¼"-20	1 in	2 ½ in	Bottoming	Greenfield Threading	**15J731**
5/16"-18	1 ⅛ in	2 23/32 in	Taper	Greenfield Threading	**407A65**
⅜"-16	1 ¼ in	2 15/16 in	Plug	Greenfield Threading	**15J594**
⅜"-16	1 ¼ in	2 15/16 in	Bottoming	Greenfield Threading	**15J735**
½"-13	1 21/32 in	3 ⅜ in	Bottoming	Greenfield Threading	**15J739**

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
½"-13	1 21/32 in	3 ⅜ in	Taper	Greenfield Threading	**407A81**
5/8"-11	1 13/16 in	3 13/16 in	Plug	Greenfield Threading	**15J603**
¾"-10	2 in	4 ¼ in	Bottoming	Greenfield Threading	**15J745**
¾"-10	2 in	4 ¼ in	Taper	Greenfield Threading	**407A89**
1"-8	2 ½ in	5 ⅛ in	Bottoming	Greenfield Threading	**15J749**
UNC, UNJC, 3 Flutes					
#6-32	1 1/16 in	2 in	Plug	Widia Gtd	**1E640**
UNC, UNJC, 4 Flutes					
#10-24	⅞ in	2 ⅜ in	Bottoming	Widia Gtd	**1E650**
#10-24	⅞ in	2 ⅜ in	Plug	Widia Gtd	**1E648**
#8-32	¾ in	2 ⅛ in	Plug	Widia Gtd	**1E644**
#8-32	¾ in	2 ⅛ in	Bottoming	Widia Gtd	**1E646**
¼"-20	1 in	2 ½ in	Plug	Widia Gtd	**1E661**
¼"-20	1 in	2 ½ in	Bottoming	Widia Gtd	**1E664**
5/16"-18	1 ⅛ in	2 23/32 in	Plug	Widia Gtd	**1E670**
⅜"-16	1 ¼ in	2 15/16 in	Plug	Widia Gtd	**1E682**
⅜"-16	1 ¼ in	2 15/16 in	Bottoming	Widia Gtd	**1E684**
½"-13	1 21/32 in	3 ⅜ in	Bottoming	Widia Gtd	**1E701**
½"-13	1 21/32 in	3 ⅜ in	Plug	Widia Gtd	**1E699**
UNF, UNJF, 4 Flutes					
#10-32	⅞ in	2 ⅜ in	Plug	Widia Gtd	**1E652**
Powdered-Metal, TiCN-Coated					
Metric Coarse, 4 Flutes					
M6x1	12.00mm	63.00mm	Modified Bottoming	Osg	**33PC95**
M8x1.25	8.00mm	55.00mm	Modified Bottoming	Osg	**33YH83**
Metric Fine, 4 Flutes					
M12x1.5	21.00mm	85.00mm	Bottoming	Osg	**33YK42**
UNC, 4 Flutes					
#8-32	5/16 in	2 3/32 in	Modified Bottoming	Osg	**33YH74**
¼"-20	9/16 in	2 ½ in	Bottoming	Osg	**33YK08**
⅜"-16	¾ in	2 29/32 in	Bottoming	Osg	**33YK14**
⅜"-16	¾ in	2 29/32 in	Bottoming	Osg	**33YK13**
UNC, 5 Flutes					
¾"-10	1 3/16 in	4 ¼ in	Bottoming	Osg	**33YK32**
UNF, 4 Flutes					
½"-20	⅞ in	3 11/32 in	Bottoming	Osg	**33YK22**
½"-20	⅞ in	3 11/32 in	Bottoming	Osg	**33YK23**

Tap Wrenches

Tap wrenches are used to manually turn taps when repairing or creating threads in holes.

Fixed T-handle wrenches are more compact than straight-handle wrenches.

Ratcheting wrenches can be turned and repositioned quickly when working in tight spaces.

Sliding T-handle wrenches have a T-handle that slides from side to side, allowing them to be turned in tight spaces. They are more compact than straight-handle wrenches.

Straight-handle wrenches have a long, straight handle that provides more leverage than a T-handle.



Ratchet T-Handle
No. 2CYT5



Starrett Sliding T-Handle
No. 30C242



Straight Handle
No. 50CA26



Tap Wrench Set
No. 6TFF6

Min. Tap Size	Max. Tap Size	Overall Length	Fractional Tap Capacity	Brand	Item No.
Fixed T-Handle					
0.25 in	0.0625 in	2 ¾ in	1/16 in to ¼ in	Westward	**2CYR9**
0.5 in	0.25 in	3 ⅜ in	¼ in to ½ in	Westward	**2CYT1**
0.5 in	0.25 in	9 in	¼ in to ½ in	Westward	**2CYT3**
0.25 in	0.0625 in	9 in	1/16 in to ¼ in	Westward	**2CYT2**
1/16 in	¼ in	8 ¾ in	1/16 in to ¼ in	Cle-Line	**50CA39**
Ratcheting Sliding T-Handle					
#0	¼ in	10 in	#0 to ¼ in	Irwin Hanson	**3KLR7**
0.25 in	0.0625 in	3 ½ in	1/16 in to ¼ in	Westward	**2CYT5**
0.15625 in	0.0625 in	3 in	1/16 in to 5/32 in	Westward	**2CYT4**
0.5 in	0.21875 in	4 ½ in	7/32 in to ½ in	Westward	**2CYT6**
0.5 in	0.21875 in	13 in	7/32 in to ½ in	Westward	**2CYT8**
0.25 in	0.0625 in	13 in	1/16 in to ¼ in	Westward	**2CYT7**
¼ in	½ in	12 in	¼ in to ½ in	Irwin Hanson	**35T719**
Sliding T-Handle					
#0	¼ in	2 ¾ in	¼ in	General	**6TFF5**
#0	¼ in	3 ½ in	¼ in	General	**6TFF2**
#12	½ in	3 ¾ in	½ in	General	**6TFF7**
#12	½ in	4 ¼ in	½ in	General	**6TFF3**
0.25 in	0.0625 in	2 ¾ in	1/16 in to ¼ in	Westward	**2FLL7**
0.5 in	0.25 in	3 ⅜ in	¼ in to ½ in	Westward	**2FLL8**

Min. Tap Size	Max. Tap Size	Overall Length	Fractional Tap Capacity	Brand	Item No.
Starrett Sliding T-Handle					
1/16 in	3/16 in	2 in	1/16 in to 3/16 in	Starrett	**30C242**
1/16 in	¼ in	6 in	1/16 in to ¼ in	Starrett	**30C239**
3/16 in	½ in	9 in	3/16 in to ½ in	Starrett	**30C240**
7/32 in	7/16 in	2 ½ in	7/32 in to 7/16 in	Starrett	**30C243**
¼ in	½ in	3 ½ in	¼ in to ½ in	Starrett	**30C244**
¼ in	½ in	13 in	¼ in to ½ in	Starrett	**30C247**
¼ in	5/8 in	12 in	¼ in to 5/8 in	Starrett	**30C241**
5/16 in	¾ in	16 in	5/16 in to ¾ in	Starrett	**53VF08**
Straight-Handle					
#0	½ in	9 ½ in	#0 to ½ in	Irwin Hanson	**35T756**
0.25 in	0.0625 in	7 in	1/16 in to ¼ in	Westward	**2CYT9**
0.375 in	0.0625 in	9 in	1/16 in to 3/8	Westward	**2CYU1**
0.5 in	0.15625 in	11 in	5/32 in to ½ in	Westward	**2CYU2**
0.75 in	0.25 in	15 in	¼ in to ¾ in	Westward	**2CYU3**
1/16 in	¼ in	7 in	1/16 in to ¼ in	Cle-Line	**50CA26**
1/16 in	3/8 in	9 in	1/16 in to 3/8 in	Cle-Line	**50CA27**
5/32 in	¾ in	15 in	5/32 in to ¾ in	Cle-Line	**50CA30**
¼ in	1 in	12 ¾ in	¼ in to 1 in	Irwin Hanson	**35T702**
¼ in	1 1/8 in	19 in	¼ in to 1 1/8 in	Cle-Line	**50CA31**
¾ in	1 5/8 in	40 in	¾ in to 1 5/8 in	Cle-Line	**50CA32**
1.125 in	0.25 in	19 ⅛ in	¼ in to 1 1/8	Westward	**2CYU4**
1 in	2 1/2 in	54 in	1 in to 2 1/2 in	Cle-Line	**50CA28**
Tap Wrench Sets					
#0	½ in	1 ⅛ in	#0 to ¼ in, #12 to ½ in	General	**6TFF6**
#0	½ in	1 ⅛ in	#0 to ¼ in, #12 to ½ in	General	**6TFF8**

Additional die sizes and materials are available on Grainger.com®.



GEARWRENCH®
CLEVELAND

Die Wrench for Round Dies
No. 20X630

Die Wrenches

Die wrenches hold compatible dies so they can be turned in manual threading tasks. Also known as die stocks, the wrenches have straight handles on both sides that provide leverage when turning the dies.

For Outside Dia.	Overall Length	Brand	Item No.
Die Wrenches For Round & Hex Dies			
¼	9 ½ in	Gearwrench	**41XA79**
1 7⁄16 in	2 in	Gearwrench	**41XU45**
Die Wrenches For Round Dies			
13⁄16 in	6 ¼ in	Cleveland	**20X630**
1 in	9 in	Cleveland	**20X723**
1 ½ in	13 ⅞ in	Cleveland	**20X631**
2 in	23 in	Cleveland	**19E382**
2 ½ in	29 in	Cleveland	**19E383**



Carbon Steel Adjustable Round Dies, UNF
No. 20X706

CLEVELAND
WESTWARD

Thread-Making Round Dies

- Right-hand thread direction

Round dies cut new threads or restore existing threads on the outer surfaces of parts so they can be mated with holes or other parts that have matching internal threads. A set screw adjusts the thread depth to over- or under-cut threads for a precise fit.

Thread Size	Die Thickness	Outside Dia.	Brand	Item No.
Carbon Steel Adjustable Round Dies				
UNC				
½"-13	⅜ in	1 in	Cleveland	**20X703**
¾"-10	½ in	1½ in	Cleveland	**20X705**
¾"-10	⅝ in	2 in	Westward	**2LWC7**
UNF				
¾"-16	½ in	1½ in	Cleveland	**20X706**
High-Speed Steel Adjustable Round Dies				
Metric				
M10x1.5	9.52mm	25.40mm	Cleveland	**20X717**
M10x1.50	½ in	1½ in	Westward	**10T891**
M12x1.00	½ in	1½ in	Westward	**10T893**
M14x1.50	½ in	1½ in	Westward	**10T898**
M16x1.50	½ in	1½ in	Westward	**10T901**
M16x2.00	½ in	1½ in	Westward	**10T902**
M20x1.50	⅝ in	2 in	Westward	**10T907**
M22x1.50	⅝ in	2 in	Westward	**10T909**
M24x3.00	⅝ in	2 in	Westward	**10T913**
M30x1.50	¾ in	2 ½ in	Westward	**10T920**
M30x3.50	¾ in	2 ½ in	Westward	**10T923**
M8x1.25	9.52mm	25.40mm	Cleveland	**20X716**
UNC				
¼"-20	⅜ in	1 in	OSG	**54LG77**
¼"-20	⅜ in	1 in	Cleveland	**20X645**
5⁄16"-18	⅜ in	1 in	Cleveland	**20X647**
⅜"-16	⅜ in	1 in	OSG	**33PC60**
⅜"-16	⅜ in	1 in	Cleveland	**20X649**
⅜"-16	½ in	1½ in	Westward	**10T752**
½"-13	½ in	1½ in	Cleveland	**20X659**
½"-13	½ in	1½ in	OSG	**54LH41**
½"-13	½ in	1½ in	Westward	**10T756**
⅝"-11	½ in	1½ in	Cleveland	**20X663**
¾"-10	⅝ in	2 in	OSG	**54LH58**
UNF				
9⁄16"-18	½ in	1½ in	Cleveland	**20X662**
⅝"-18	½ in	1½ in	Cleveland	**20X664**



High-Speed Steel Adjustable Round Pipe & Conduit
No. 54LH84

GREENFIELD THREADING

Pipe and Conduit Thread Dies

- Right-hand thread direction
- UNF thread standard

These dies create or repair threads on the outer surfaces of pipe, conduit, or fittings so they can be mated with parts that have matching internal threads. **Fixed** dies create or repair threads in one size. **Adjustable** dies have a set screw that adjusts the thread depth to over- or under-cut threads for a precise fit.

Thread Size	Die Thickness	Outside Dia.	Brand	Item No.
Carbon Steel Fixed Round Pipe & Conduit Thread Dies				
¼"-18	½ in	1 ½ in	Greenfield Threading	**53PT10**
⅛"-27	⅜ in	1 in	Greenfield Threading	**53PT12**
⅛"-27	½ in	1 ½ in	Greenfield Threading	**53PT11**
High-Speed Steel Adjustable Round Pipe & Conduit Thread Dies				
½ "-14	⅝ in	2 in	OSG	**54LH84**
¼"-18	½ in	1 ½ in	OSG	**54LH80**
¼"-18	⅝ in	2 in	OSG	**54LH82**
⅜"-18	½ in	1 ½ in	OSG	**54LH81**



Carbon Steel Hex Die UNF
No. 20X666

CLEVELAND
WESTWARD
IRWIN HANSON

Thread-Repair Hex Dies

- Right-hand thread direction

Hex dies repair damaged, worn, or rusted threads on the outer surfaces of parts so they can be mated with holes or other parts that have matching internal threads. They can be turned with a standard wrench or a compatible die wrench. **Self-aligning** dies have a plate that aligns the die when it's placed on a part to help prevent cross threading.

Thread Size	Die Thickness	Hex Size	Brand	Item No.
Carbon Steel Hex Dies				
UNC				
¼"-20	¼ in	0.5344 in	Cleveland	**20X665**
5⁄16"-18	5⁄16 in	0.6188 in	Cleveland	**20X667**
⅜"-16	⅜ in	0.7031 in	Cleveland	**20X669**
⅜"-16	⅜ in		Westward	**10T943**
7⁄16"-14	7⁄16 in	0.7875 in	Cleveland	**20X671**
½"-13	½ in	0.9563 in	Cleveland	**20X673**
½"-13	½ in		Westward	**10M967**
⅝"-11	⅝ in	1⅛ in	Cleveland	**20X677**
¾"-10	¾ in	1.2938 in	Cleveland	**20X679**
¾"-10	¾ in		Westward	**10M975**
1"-8	1 in	1.6313 in	Cleveland	**20X683**
1"-8	1 in		Westward	**10M978**
1⅛"-7	1 in	1.8000 in	Cleveland	**20X685**
1¼"-7	1 in	1.9686 in	Cleveland	**20X687**
UNF				
¼"-28	¼ in	0.5344 in	Cleveland	**20X666**
⅜"-24	⅜ in	0.7031 in	Cleveland	**20X670**
½"-20	½ in	0.9563 in	Cleveland	**20X674**
⅝"-18	⅝ in	1⅛ in	Cleveland	**20X678**
¾"-16	¾ in	1.2938 in	Cleveland	**20X680**
Carbon Steel Self-Aligning Hex Dies				
NC				
¼"-20	⅜ in	1 in	Irwin Hanson	**19T163**
5⁄16"-18	⅜ in	1 in	Irwin Hanson	**19T165**
½"-13	⅜ in	1 in	Irwin Hanson	**19T171**
⅝"-11	⅜ in	1 in	Irwin Hanson	**19T175**
1"-8	⅜ in	1 13⁄16 in	Irwin Hanson	**19T181**
NF				
#10-32	⅜ in	1 in	Irwin Hanson	**19T161**
⅝"-18	⅜ in	1 in	Irwin Hanson	**19T176**
¾"-16	⅜ in	1 in	Irwin Hanson	**19T178**
⅞"-14	⅜ in	1 13⁄16 in	Irwin Hanson	**19T180**
1"-14	⅜ in	1 13⁄16 in	Irwin Hanson	**19T182**

End Mill Flute, Material, and Finish Information

End mills have cutting edges on their nose and/or sides that remove material from a workpiece. They are used on computer numerical control (CNC) or manual milling machines to create parts with complex shapes and features such as slots, pockets, and grooves. Flutes on the end mills' cutting head carry the removed material away from the workpiece to prevent damage to the end mills or workpiece.

Materials

Carbide end mills provide excellent wear resistance and heat resistance and are harder than powdered-metal and cobalt end mills. They require a rigid setup.

Cobalt end mills can tolerate more vibration than carbide end mills.

Powdered-metal end mills are tougher and less likely to break than cobalt end mills.

Finishes

AlTiN is more resistant to high heat than TiN, TiCN, and TiAlN.

AlTiCrN offers higher resistance to oxidation than an AlTiN coating.

Bright (uncoated) provides a smooth, polished surface.

Diamond is only used for milling nonferrous materials such as aluminum, graphite, copper, and carbon fiber.

DLC is a cost-effective alternative to diamond finish and is used for milling abrasive materials such as stainless steel, ceramics, plastics, and aluminum alloys.

EXO is a multilayered TiAlN coating with a very smooth finish. It resists wear better than a standard TiAlN coating and withstands high speeds and high temperatures.

GMS has a lower coefficient of friction than GMX-35, which helps prevent built-up edge. It is also harder and more resistant to high heat than TiAlN and ZrN.

GMX-35 is harder and resists high heat better than TiAlN and ZrN, and it is suitable for high-speed milling and dry machining applications.

nACRo is harder and more resistant to high heat than TiAlN, TiCN, AlTiN, and AlCrN.

TiAlN withstands high temperatures, allows for faster speeds than a bright finish, and resists cracks and oxidation better than TiN or TiCN.

TiCN is harder and more wear-resistant than TiN.

TiN resists impact better than TiAlN and AlTiN.

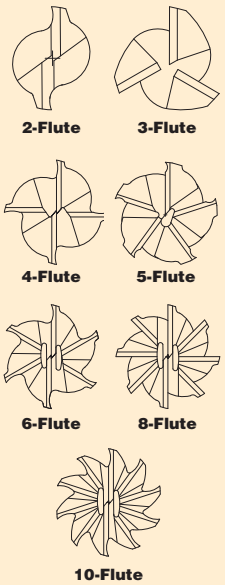
SS provides a polished surface that's smoother than a bright finish.

Taz reduces the need for coolant and is recommended for dry machining applications.

WXL is used for milling nonferrous metals and steels with a Rockwell hardness of up to 50 HRC.

WXS is used for milling nickel-based alloys and hardened steels with a Rockwell hardness of more than 50 HRC.

ZrN has a higher oxidation temperature than TiN and is used for milling nonferrous metals.



Helical-Flute Thread Mills

MICRO 100 super carbide tools · SCT · OSG · Carmex Precision Tools, Ltd. · WIDIA GTD

- Carbide material

Helical-flute thread mills have spiral flutes and provide a smoother cut than straight-flute or single-profile thread mills. They are used to create threads on tough or thin-walled materials and can create internal threads of the same pitch in a range of hole diameters, eliminating the need to change tools when threading multiple holes of different sizes. For use in CNC machines that have helical interpolation capability.



Bright (Uncoated) Finish
Metric, 3 Flutes
No. 16R777

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTiN Finish						
Metric, 3 Flutes						
M4.5x0.75	3.00mm	6.00mm	57.0mm	6.000mm	Micro 100	**16R778**
M5x0.80	3.00mm	8.00mm	57.0mm	6.000mm	Micro 100	**16R780**
M6x1	4.30mm	12.00mm	57.0mm	6.000mm	Micro 100	**16R782**
Metric, 4 Flutes						
M12x1.75	9.15mm	22.00mm	100.0mm	10.000mm	Micro 100	**16R792**
M20x2.5	11.94mm	32.00mm	100.0mm	12.000mm	Micro 100	**16R801**
NPT, 4 Flutes						
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R663**
NPTF, 3 Flutes						
1/16 in, 1/8"-27	0.2450 in	7/16 in	2½ in	¼ in	Micro 100	**16R674**
NPTF, 4 Flutes						
½ in, ¾"-14	0.4950 in	⅞ in	4 in	½ in	Micro 100	**16R666**
UN, 2 Flutes						
#4-40	0.0800 in	3/16 in	2 in	¼ in	Micro 100	**16R679**
#6-32	0.1000 in	¼ in	2 in	¼ in	Micro 100	**16R681**
UN, 3 Flutes						
#8-32	0.1150 in	¼ in	2 in	¼ in	Micro 100	**16R683**
¼"-28	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R693**
¼"-20	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R691**
5/16"-18	0.2350 in	⅝ in	2½ in	¼ in	Micro 100	**16R695**
UN, 4 Flutes						
#1-8	0.6200 in	1⅜ in	2 in	⅝ in	Micro 100	**16R677**
⅜"-24	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R702**
⅜"-16	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R699**
7/16"-20	0.3350 in	⅞ in	3 in	⅜ in	Micro 100	**16R706**
9/16"-12	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R710**
⅝"-11	0.4700 in	1¼ in	4 in	½ in	Micro 100	**16R714**
¾"-16	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R720**
⅞"-14	0.4900 in	1¼ in	4 in	½ in	Micro 100	**16R724**
Bright (Uncoated) Finish						
Metric, 3 Flutes						
M4.5x0.75	3.00mm	6.00mm	57.0mm	6.000mm	Micro 100	**16R777**
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	**4PFD6**
M6x1	0.1700 in	0.5280 in	2½ in	¼ in	Scientific Cutting Tools	**4PFK8**
M8x0.75	6.00mm	16.00mm	57.0mm	6.000mm	Micro 100	**16R784**
M8x1	0.2350 in	0.6850 in	2½ in	¼ in	Scientific Cutting Tools	**4PFT2**
M8x1.25	0.2350 in	0.6600 in	2½ in	¼ in	Scientific Cutting Tools	**4PFP7**
Metric, 4 Flutes						
M10x1	0.2900 in	0.8030 in	3½ in	5/16 in	Scientific Cutting Tools	**4LLF3**
M10x1.5	0.2900 in	0.7920 in	3½ in	5/16 in	Scientific Cutting Tools	**4LLF1**
M12x1	9.15mm	22.00mm	100.0mm	10.000mm	Micro 100	**16R790**
M12x1.5	0.3450 in	0.7920 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDV9**
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	Scientific Cutting Tools	**4PDY1**
M14x1.5	0.4500 in	1.0870 in	3½ in	½ in	Scientific Cutting Tools	**4PEG1**
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PEP6**
M14x2	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PER2**
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	Scientific Cutting Tools	**4XXP2**
M18x1.5	11.94mm	32.00mm	100.0mm	12.000mm	Micro 100	**16R797**
NPT, 3 Flutes						
1/16 in, 1/8"-27	0.2450 in	7/16 in	2½ in	¼ in	Micro 100	**16R672**
NPT, 4 Flutes						
1/16 in, 1/8"-27	0.2180 in	0.5340 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP3**
1/8"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDR2**
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7/16 in	Scientific Cutting Tools	**4PDT7**
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R660**
NPTF, 4 Flutes						
1/8"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDR1**
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7/16 in	Scientific Cutting Tools	**4PDT6**
½ in, ¾"-14	0.4950 in	⅞ in	4 in	½ in	Micro 100	**16R665**
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R661**
UN, 3 Flutes						
#10-24	0.1400 in	0.3920 in	2½ in	¼ in	Scientific Cutting Tools	**4LLF7**
#8-32	1/64 in	0.3250 in	2½ in	¼ in	Scientific Cutting Tools	**4PEP8**
¼"-20	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	**4LLG6**
¼"-20	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R690**
¼"-40	0.1870 in	0.5110 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP1**
5/16"-20	0.2350 in	0.6700 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP5**
5/16"-18	0.2350 in	0.6890 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP4**
5/16"-18	0.2350 in	⅝ in	2½ in	¼ in	Micro 100	**16R694**
UN, 4 Flutes						
#1-8	0.6200 in	1⅜ in	2 in	⅝ in	Micro 100	**16R676**
⅜"-24	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R701**
⅜"-32	0.2900 in	0.7940 in	3½ in	5/16 in	Scientific Cutting Tools	**4PDR7**
⅜"-27	0.2900 in	0.7930 in	3½ in	5/16 in	Scientific Cutting Tools	**4PDR6**
7/16"-14	0.3050 in	¾ in	2½ in	5/16 in	Micro 100	**16R703**
7/16"-20	0.3350 in	⅞ in	3 in	⅜ in	Micro 100	**16R705**
7/16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDT5**
7/16"-24	0.3450 in	0.8080 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDT4**
½"-13	0.3500 in	⅞ in	3 in	⅜ in	Micro 100	**16R707**
½ "-28	0.4000 in	1.0860 in	3½ in	½ in	Scientific Cutting Tools	**4PDU4**
½"-24	0.4000 in	1.1000 in	3½ in	½ in	Scientific Cutting Tools	**4PDU3**
½"-20	0.4000 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	**4PDU2**
9/16"-18	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R711**
9/16"-12	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R709**
9/16"-20	0.4500 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	**4PDV4**
9/16"-16	0.4500 in	1.0880 in	3½ in	½ in	Scientific Cutting Tools	**4PDV2**
⅝"-11	0.4500 in	1.1270 in	3½ in	½ in	Scientific Cutting Tools	**4PDU9**
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	Scientific Cutting Tools	**4PDU8**
¾"-16	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R719**
¾"-12	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R717**
⅞"-9	0.6200 in	1⅜ in	4 in	⅝ in	Micro 100	**16R722**
EXO Finish						
UNC, 3 Flutes						
#10-24	0.1300 in	0.3740 in	2½ in	3/16 in	OSG	**2TNT2**
¼"-20	0.1800 in	0.5510 in	3 in	¼ in	OSG	**54LC57**
5/16"-18	0.2450 in	0.7200 in	3 in	¼ in	OSG	**54LC59**
⅜"-16	0.3000 in	0.5940 in	3 in	5/16 in	OSG	**2TNR2**
7/16"-14	0.3500 in	0.7130 in	3 in	⅜ in	OSG	**2TNP9**
UNC, 4 Flutes						
¼"-20	0.1800 in	0.4010 in '	3 in	¼ in	OSG	**54LC77**
5/16"-18	0.2450 in	½ in	3 in	¼ in	OSG	**54LC79**
⅜"-16	0.3000 in	0.5620 in	3 in	5/16 in	OSG	**54LC81**
7/16"-14	0.3500 in	0.7120 in	3 in	⅜ in	OSG	**54LC83**
½"-13	0.3700 in	0.7680 in	3 in	⅜ in	OSG	**2TNR5**
½"-13	0.3700 in	1.0790 in	3 in	⅜ in	OSG	**54LC65**
⅝"-11	0.4300 in	1.4530 in	4 in	½ in	OSG	**54LC69**

CONTINUED

CONTINUED

MICRO 100 super carbide tools | SCT | Carmex Precision Tools, Ltd. | WIDIA GTD

Helical-Flute Thread Mills

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
EXO Finish (Cont.)						
UNC, 4 Flutes (Cont.)						
¾"-10	0.6200 in	0.2010 in	4 in	⅜ in	OSG	**2TNT6**
⅛"-9	0.7450 in	2 in	5 in	¾ in	OSG	**54LC73**
1"-8	0.7450 in	1.6260 in	4 in	¾ in	OSG	**2TNT9**
1"-8	0.7450 in	2 in	5 in	¾ in	OSG	**54LC75**
UNC, 5 Flutes						
½"-13	0.3700 in	0.7670 in	3 in	⅜ in	OSG	**54LC85**
9⁄16"-12	0.4300 in	0.9170 in	4 in	½ in	OSG	**54LC87**
⅝"-11	0.4300 in	1 in	4 in	½ in	OSG	**54LC89**
¾"-10	0.6200 in	1.2000 in	4 in	⅝ in	OSG	**54LC91**
UNC, 6 Flutes						
⅛"-9	0.7450 in	1.3300 in	4 in	¾ in	OSG	**54LC93**
1"-8	0.7450 in	1⅝ in	4 in	¾ in	OSG	**54LC95**
UNF, 3 Flutes						
#10-32	0.1300 in	0.3740 in	2½ in	3⁄16 in	OSG	**2TNR8**
5⁄16"-24	0.2450 in	0.7520 in	3 in	¼ in	OSG	**54LC60**
⅜"-24	0.3000 in	0.5830 in	3 in	5⁄16 in	OSG	**2TNR1**
⅜"-20	0.3500 in	1.0510 in	3 in	⅜ in	OSG	**54LC64**
UNF, 4 Flutes						
¼"-28	0.1800 in	0.3930 in	3 in	¼ in	OSG	**54LC78**
5⁄16"-24	0.2450 in	½ in	3 in	¼ in	OSG	**54LC80**
7⁄16"-20	0.3500 in	0.7000 in	3 in	⅜ in	OSG	**54LC84**
9⁄16"-18	0.4500 in	0.8900 in	4 in	½ in	OSG	**2TNT3**
¾"-16	0.6200 in	1.6890 in	4½ in	⅝ in	OSG	**54LC72**
⅞"-14	0.7450 in	1.3580 in	4 in	¾ in	OSG	**2TNT8**
⅞"-14	0.7450 in	2 in	5 in	¾ in	OSG	**54LC74**
1"-12	0.7450 in	1.5830 in	4 in	¾ in	OSG	**2TNT4**
UNF, 5 Flutes						
½"-20	0.3700 in	¾ in	3 in	⅜ in	OSG	**54LC86**
9⁄16"-18	0.4500 in	0.8890 in	4 in	½ in	OSG	**54LC88**
¾"-16	0.6200 in	1⅛ in	4 in	⅝ in	OSG	**54LC92**
UNF, 6 Flutes						
⅞"-14	0.7450 in	1.3580 in	4 in	¾ in	OSG	**54LC94**
1"-12	0.7450 in	1.5820 in	4 in	¾ in	OSG	**54LC96**
UNS, 3 Flutes						
¼"-28	0.1800 in	0.5350 in	3 in	¼ in	OSG	**54LC58**
UNS, 4 Flutes						
½"-32	⅜ in	0.7520 in	3 in	⅜ in	OSG	**2TNU1**
Stainless Steel						
Metric, 3 Flutes						
M1.2x0.25	0.92mm	0.26mm	40.00mm	3.00mm	OSG	**34ZT76**
M1.4x0.3	1.05mm	0.31mm	40.00mm	3.00mm	OSG	**34ZT77**
M1.6x0.35	1.20mm	0.36mm	40.00mm	3.00mm	OSG	**34ZT78**
M1.7x M1.8x0.35	1.30mm	0.36mm	40.00mm	3.00mm	OSG	**34ZT79**
M1x0.25	0.72mm	0.26mm	40.00mm	3.00mm	OSG	**34ZT75**
UNC, 3 Flutes						
#1-64	0.0550 in	0.0160 in	1⅝ in	⅛ in	OSG	**54LC56**
UNF, 3 Flutes						
#0-80	0.0450 in	0.0130 in	1⅝ in	⅛ in	OSG	**34ZT67**
#1-72	0.0550 in	0.0140 in	1⅝ in	⅛ in	OSG	**54LC55**
TiAlN Finish						
Metric, 3 Flutes						
M10x1	0.3100 in	1 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXG5**
M10x1.25	7.50mm	16.25mm	70.00mm	8.00mm	OSG	**6WFN6**
M10x1.5	0.3100 in	¾ in	3½ in	⅜ in	Scientific Cutting Tools	**4XXG2**
M10x1.5	0.3100 in	1 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXG3**
M10x1.5	7.50mm	16.50mm	70.00mm	8.00mm	OSG	**6WFN7**
M10x1.5	7.50mm	22.50mm	70.00mm	8.00mm	OSG	**33VR09**
M10x1.50	7.90mm	7.90mm	70.00mm	8.00mm	Widia Gtd	**53MP69**
M12x2	0.3700 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXG6**
M2x.4	0.0560 in	0.2000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXJ5**
M3x.5	0.0900 in	0.3000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXL1**
M4x.7	0.1200 in	0.3000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXN1**
M5x.8	0.1500 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXN4**
M5x.8	0.1500 in	0.4000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXN3**
M5x0.8	0.1180 in	0.3280 in	58.00mm	6.00mm	Scientific Cutting Tools	**4PFW7**
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	**4PFD7**
M6x0.75	0.1700 in	0.5430 in	2½ in	¼ in	Scientific Cutting Tools	**4PFE4**
M6x1	4.50mm	13.00mm	60.00mm	6.00mm	OSG	**33VR05**
M6x1.25	0.1700 in	0.5610 in	2½ in	¼ in	Scientific Cutting Tools	**4PFF5**
M8x0.75	0.2350 in	0.6620 in	2½ in	¼ in	Scientific Cutting Tools	**4PFP4**
M8x1	6.00mm	17.00mm	65.00mm	6.00mm	OSG	**33VR06**
M8x1.00	6.00mm	13.00mm	65.00mm	6.00mm	OSG	**6WFN3**
M8x1.25	0.2340 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXN9**
M8x1.25	0.2340 in	0.6590 in	58.00mm	6.00mm	Scientific Cutting Tools	**4PFX3**
Metric, 4 Flutes						
M10x1	0.2900 in	0.8030 in	3½ in	5⁄16 in	Scientific Cutting Tools	**4LLG3**
M10x1.5	0.2900 in	0.7920 in	3½ in	5⁄16 in	Scientific Cutting Tools	**4LLF2**
M12x1	0.4000 in	1.0790 in	3½ in	½ in	Scientific Cutting Tools	**4PDX7**
M12x1.25	0.3450 in	0.8070 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDV6**
M12x1.75	0.3450 in	0.7870 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDW6**
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	Scientific Cutting Tools	**4PEF7**
M14x1.5	0.3700 in	0.9090 in	100.00mm	10.00mm	Scientific Cutting Tools	**4PFU4**
M14x1.50	10.00mm	22.50mm	85.00mm	10.00mm	OSG	**6WFP0**
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PEP7**
M14x2	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PER3**
M16x2	0.4700 in	1.2900 in	100.00mm	12.00mm	Scientific Cutting Tools	**4PFU5**
M16x2	12.00mm	34.00mm	95.00mm	12.00mm	OSG	**33VR15**
M16x2.00	11.90mm	11.90mm	90.00mm	12.00mm	Widia Gtd	**53MP72**
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	Scientific Cutting Tools	**4XXP3**
M18x1.5	0.4700 in	1.2630 in	100.00mm	12.00mm	Scientific Cutting Tools	**4PFU8**
M20x1.5	16.00mm	31.50mm	105.00mm	16.00mm	OSG	**6WFP3**
M20x2.5	16.00mm	42.50mm	105.00mm	16.00mm	OSG	**33VR17**
M6x1	4.50mm	13.00mm	60.00mm	6.00mm	OSG	**33VR20**
M8x1	6.00mm	17.00mm	65.00mm	6.00mm	OSG	**33VR21**
M8x1.25	6.00mm	17.50mm	65.00mm	6.00mm	OSG	**33VR22**
Metric, 5 Flutes						
M12x1.25	9.50mm	26.30mm	85.00mm	10.00mm	OSG	**33VR25**
M12x1.75	9.50mm	26.30mm	85.00mm	10.00mm	OSG	**33VR26**
M14x1.5	10.00mm	30.00mm	85.00mm	10.00mm	OSG	**33VR27**
M14x2	10.00mm	30.00mm	85.00mm	10.00mm	OSG	**33VR28**
M16x2	12.00mm	34.00mm	95.00mm	12.00mm	OSG	**33VR30**
M20x1.5	16.00mm	42.00mm	105.00mm	16.00mm	OSG	**33VR31**
M24x1	20.00mm	51.00mm	120.00mm	20.00mm	OSG	**33VR19**
M24x2	20.00mm	50.00mm	120.00mm	20.00mm	OSG	**33VR18**
NPT, 3 Flutes						
1⁄16"-27	0.1840 in	0.4090 in	3 in	¼ in	OSG	**6WFP4**
1⁄16 in ,1/8"-27	0.2220 in	0.4610 in	2½ in	¼ in	Scientific Cutting Tools	**4PFX4**
NPT, 4 Flutes						
1⁄16, ⅛"-27	0.2180 in	0.5340 in	2½ in	¼ in	Scientific Cutting Tools	**4PDZ5**
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	Scientific Cutting Tools	**4PEC2**
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7⁄16 in	Scientific Cutting Tools	**4PEC8**
½ in, ¾"-14	0.4300 in	1.1050 in	3½ in	½ in	Scientific Cutting Tools	**4PED8**
½ in or ¾"-14	0.5700 in	0.7870 in	4 in	⅝ in	OSG	**6WFP7**
1 in to 2"-11-1/2	0.5500 in	1.1710 in	4 in	⅜ in	Scientific Cutting Tools	**4PFX7**
NPTF, 3 Flutes						
⅛"-27	0.2840 in	0.4090 in	3 in	9⁄16 in	OSG	**6WFR1**
NPTF, 4 Flutes						
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	**4PEA3**
1 in ,1-1/4"-11-1/2	0.7800 in	0.9570 in	4 in	1 in	OSG	**6WFR4**
1½ in ,2"-11-1/2	0.7800 in	0.9570 in	4 in	1 in	OSG	**6WFR7**
2½ "-8	0.9100 in	1.3580 in	4 in	1 in	OSG	**6WFR5**
UN, 2 Flutes						
#4-40	0.0790 in	0.1850 in	2½ in	¼ in	Scientific Cutting Tools	**4PFT4**
UN, 3 Flutes						
#10-24	0.1200 in	0.3510 in	2½ in	¼ in	Scientific Cutting Tools	**4PFT8**
#10-28	0.1200 in	0.3360 in	2½ in	¼ in	Scientific Cutting Tools	**4PFT9**
#10-32	0.1200 in	0.3260 in	2½ in	¼ in	Scientific Cutting Tools	**4PFU1**
#10-32	0.1460 in	0.4100 in	2½ in	¼ in	Carmex	**4PMT5**
#10-48	0.1390 in	0.4000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXH5**
#2-56	0.0650 in	0.2000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXF4**
#4-40	0.0820 in	0.2250 in	2½ in	¼ in	Scientific Cutting Tools	**4XXF5**
#6-40	0.1000 in	0.2600 in	2½ in	¼ in	Scientific Cutting Tools	**4XXF9**
¼"-20	0.1720 in	0.5110 in	2½ in	¼ in	Scientific Cutting Tools	**4PDY6**
¼"-28	0.1860 in	0.7000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXJ1**
5⁄16"-40	0.2380 in	0.8500 in	2½ in	¼ in	Scientific Cutting Tools	**4XXK6**
5⁄16"-28	0.2380 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	**4XXK1**
5⁄16"-24	0.2380 in	0.8500 in	2½ in	¼ in	Scientific Cutting Tools	**4XXJ9**
7⁄16"-20	0.3120 in	0.9800 in	2½ in	9⁄16 in	Carmex	**4PMX4**
½ "-12	0.3700 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXL2**
½"-20	0.3700 in	1.2000 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXL7**
½ "-12	0.3700 in	1.2000 in	3½ in	⅜ in	Scientific Cutting Tools	**4XXL3**
2"-3/56	0.0650 in	0.0170 in	2½ in	¼ in	Carmex	**4PMR8**
10"-48	0.1400 in	0.3830 in	2½ in	¼ in	Scientific Cutting Tools	**4PDX6**
10"-32	0.1400 in	0.3880 in	2½ in	¼ in	Scientific Cutting Tools	**4PDX5**
10"-28	0.1400 in	0.4070 in	2½ in	¼ in	Scientific Cutting Tools	**4PDX4**
10"-24	0.1400 in	0.3920 in	2½ in	¼ in	Scientific Cutting Tools	**4PDX3**
10"-24	⅛ in	0.3500 in	2½ in	¼ in	Scientific Cutting Tools	**4PDX1**
UN, 4 Flutes						
⅜"-24	0.2850 in	0.7660 in	3 in	5⁄16 in	Scientific Cutting Tools	**4PFV4**
⅜"-16	0.2900 in	0.8200 in	3½ in	5⁄16 in	Scientific Cutting Tools	**4PEA6**
7⁄16"-14	0.3050 in	0.8860 in	3 in	5⁄16 in	Scientific Cutting Tools	**4PFV5**
7⁄16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	**4PEC7**
7⁄16"-24	0.3450 in	0.8080 in	3½ in	⅜ in	Scientific Cutting Tools	**4PEC6**
½"-13	0.3500 in	0.8770 in	3 in	⅜ in	Scientific Cutting Tools	**4PFV7**
½"-32	0.4000 in	1.1060 in	3½ in	½ in	Scientific Cutting Tools	**4PED7**
½ "-28	0.4000 in	1.0860 in	3½ in	½ in	Scientific Cutting Tools	**4PED6**
½"-24	0.4000 in	1.1000 in	3½ in	½ in	Scientific Cutting Tools	**4PED5**
½"-20	0.4000 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	**4PED4**
5⁄8"-12	0.4500 in	1.1170 in	3½ in	½ in	Scientific Cutting Tools	**4PEF3**
5⁄8"-11	0.4700 in	1.3090 in	4 in	½ in	Scientific Cutting Tools	**4PFW2**
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	Scientific Cutting Tools	**4PEF1**
¾"-12	0.4950 in	1.2830 in	4 in	½ in	Scientific Cutting Tools	**4PFW4**
¾"-10	0.4950 in	1.3400 in	4 in	½ in	Scientific Cutting Tools	**4PFW3**
UN, 5 Flutes						
⅞"-9	0.6200 in	1.4890 in	4 in	⅝ in	Scientific Cutting Tools	**4PFW9**
1"-8	0.6200 in	1.5500 in	4 in	⅝ in	Scientific Cutting Tools	**4PFX1**
UNC, 3 Flutes						
#12-24	0.1600 in	0.3310 in	3 in	¼ in	OSG	**33VP97**
UNC, 4 Flutes						
⅞"-9	0.7450 in	1.3350 in	4 in	¾ in	OSG	**33VR01**
UNEF, 3 Flutes						
¼"-32	0.1900 in	0.3740 in	3 in	¼ in	OSG	**33VR02**
5⁄16"-32	¼ in	0.4690 in	3 in	¼ in	OSG	**33VR03**
⅜"-32	0.3100 in	0.5630 in	3 in	9⁄16 in	OSG	**33VR04**
UNF, 3 Flutes						
#12-28	0.1600 in	0.3230 in	3 in	¼ in	OSG	**33VP98**
TiCN Finish						
Metric, 3 Flutes						
M6x1	4.80mm	6.30mm	62.00mm	8.00mm	Widia Gtd	**53MP88**
Metric Fine, 3 Flutes						
M10x1.25	8.40mm	10.30mm	80.00mm	12.00mm	Widia Gtd	**53MP97**
UNC, 3 Flutes						
⅜"-16	0.3012 in	0.7831 in	3.1496 in	0.4724 in	Widia Gtd	**53MR06**
UNC, 4 Flutes						
½"-13	0.4079 in	1.0405 in	3.5433 in	0.5512 in	Widia Gtd	**53MR08**
⅝"-11	0.5157 in	1.3205 in	4.0157 in	0.7087 in	Widia Gtd	**53MR10**
WXS Finish						
Metric, 3 Flutes						
M2.5x M2.6x0.45	1.35mm	1.35mm	40.00mm	6.00mm	OSG	**34ZT81**
M2x0.40	1.50mm	1.20mm	40.00mm	6.00mm	OSG	**34ZT80**
M3x0.50	1.50mm	1.50mm	40.00mm	6.00mm	OSG	**34ZT82**
M4x0.70	2.10mm	2.10mm	40.00mm	6.00mm	OSG	**34ZT83**
M5x0.80	2.40mm	2.40mm	40.00mm	6.00mm	OSG	**34ZT84**
UNC, 3 Flutes						
#2, #3-56	0.0640 in	0.0540 in	1.6610 in	¼ in	OSG	**34ZT68**
#4, #5, #6-40	0.0830 in	0.0750 in	1.6610 in	¼ in	OSG	**34ZT71**
#6, #8-32	0.1030 in	0.0940 in	1.6610 in	¼ in	OSG	**34ZT73**
UNF, 3 Flutes						
#2-64	0.0640 in	0.0470 in	1.6610 in	¼ in	OSG	**34ZT69**
#5-44	0.0960 in	0.0680 in	1.6610 in	¼ in	OSG	**34ZT72**
#8-36	0.1290 in	0.0830 in	1.6610 in	¼ in	OSG	**34ZT74**

Single-Profile Thread Mills

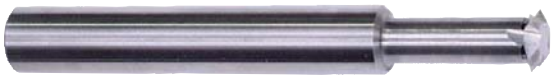
MICRO 100 super carbide tools | SCT

For more information on end mills, see page 2277.

- Carbide material

Single-profile thread mills create very low side-cutting pressure and provide more control over pitch diameter and cut length during thread-milling tasks than helical-flute or straight-flute thread mills. They are suitable for threading applications with unfavorable length-to-diameter ratios and can create internal threads with a variety of pitch ranges, lengths, and diameters, eliminating the need to change tools when threading multiple holes of different sizes. For use in CNC machines that have helical interpolation capability.

Bright (Uncoated) Finish 3 Flutes No. 4PEH2



Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
AlTiN Finish, Micro 100					
UN, 2 Flutes					
0.1000 in	32-64	0.029 in	1½ in	⅛ in	**16R736**
0.1000 in	32-64	0.029 in	2 in	⅛ in	**16R734**
0.0800 in	40-64	0.026 in	1½ in	⅛ in	**16R730**
0.0800 in	40-64	0.026 in	1½ in	⅛ in	**16R732**
0.0600 in	56-80	0.017 in	1½ in	⅛ in	**16R726**
0.0600 in	56-80	0.017 in	1½ in	⅛ in	**16R728**
UN, 3 Flutes					
0.1400 in	24-56	0.038 in	2 in	3⁄16 in	**16R746**
0.1400 in	24-56	0.038 in	2 in	3⁄16 in	**16R748**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R740**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R742**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R744**
UN, 4 Flutes					
0.3600 in	12-32	0.085 in	4 in	⅜ in	**16R762**
0.2900 in	14-40	0.071 in	4 in	⅜ in	**16R760**
0.2400 in	16-48	0.055 in	3½ in	5⁄16 in	**16R758**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R750**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R752**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R754**
¼ in	14-48	0.065 in	2½ in	¼ in	**16R756**
⅜ in	12-32	3⁄32 in	2.60 in	¼ in	**16R655**
UN, 5 Flutes					
½ in	11-32	⅛ in	2.61 in	5⁄16 in	**16R657**
UN, 6 Flutes					
¾ in	7-16	5⁄32 in	2.65 in	⅜ in	**16R659**
UN, 7 Flutes					
1 in	5-12	3⁄16 in	3.20 in	½ in	**16R653**

Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
Bright (Uncoated) Finish, Scientific Cutting Tools					
UN, 2 Flutes					
0.0500 in	64-80	0.1000 in	1½ in	⅛ in	**4PEG7**
0.0500 in	64-80	0.1500 in	1½ in	⅛ in	**4PEG8**
0.0400 in	72-90	0.0900 in	1½ in	⅛ in	**4PEG5**
UN, 3 Flutes					
0.3720 in	12-32	0.8500 in	3 in	⅜ in	**4PEK2**
0.3720 in	12-32	1¼ in	3 in	⅜ in	**4PEK3**
0.2900 in	14-40	0.6000 in	3 in	⅜ in	**4PEJ9**
0.2900 in	14-40	1 in	3 in	⅜ in	**4PEK1**
0.2400 in	16-48	0.8000 in	2½ in	¼ in	**4PEJ8**
0.2400 in	16-48	½ in	2½ in	¼ in	**4PEJ7**
0.1820 in	18-56	0.4000 in	2½ in	¼ in	**4PEJ5**
0.1820 in	18-56	0.6500 in	2½ in	¼ in	**4PEJ6**
0.1380 in	24-56	0.4000 in	2 in	3⁄16 in	**4PEJ3**
0.1380 in	24-56	0.6000 in	2 in	3⁄16 in	**4PEJ4**
0.0980 in	32-64	0.4000 in	2 in	3⁄16 in	**4PEH9**
0.0980 in	32-64	¼ in	2 in	3⁄16 in	**4PEH8**
0.1200 in	32-56	0.3000 in	2 in	3⁄16 in	**4PEJ1**
0.1200 in	32-56	½ in	2 in	3⁄16 in	**4PEJ2**
0.0800 in	40-64	0.1900 in	2 in	3⁄16 in	**4PEH6**
0.0800 in	40-64	0.3000 in	2 in	3⁄16 in	**4PEH7**
0.0720 in	48-72	0.1500 in	2 in	3⁄16 in	**4PEH4**
0.0720 in	48-72	¼ in	2 in	3⁄16 in	**4PEH5**
0.0590 in	56-80	0.2000 in	1½ in	⅛ in	**4PEH1**
0.0600 in	56-80	0.2000 in	2 in	3⁄16 in	**4PEH3**
0.0590 in	56-80	⅛ in	1½ in	⅛ in	**4PEG9**
0.0600 in	56-80	⅛ in	2 in	3⁄16 in	**4PEH2**
UN, 5 Flutes					
0.4880 in	11-32	0.8500 in	3½ in	½ in	**4XXP4**
0.4880 in	11-32	1.3500 in	3½ in	½ in	**4XXP5**
UN, 6 Flutes					
0.7450 in	4-8	1½ in	5 in	¾ in	**4XXR1**
0.7450 in	4-8	2½ in	5 in	¾ in	**4XXR2**
0.6950 in	9-24	1½ in	5 in	¾ in	**4XXP8**
0.6950 in	9-24	2½ in	5 in	¾ in	**4XXP9**
0.5950 in	10-32	1¼ in	4 in	⅝ in	**4XXP6**
0.5950 in	10-32	2 in	4 in	⅝ in	**4XXP7**

Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
TiAlN Finish, Scientific Cutting Tools					
UN, 2 Flutes					
0.0500 in	64-80	0.1000 in	1½ in	⅛ in	**4PEK6**
0.0500 in	64-80	0.1500 in	1½ in	⅛ in	**4PEK7**
0.0400 in	72-90	0.0900 in	1½ in	⅛ in	**4PEK4**
0.0400 in	72-90	⅛ in	1½ in	⅛ in	**4PEK5**
UN, 3 Flutes					
0.2900 in	14-40	0.6000 in	3 in	⅜ in	**4PEN8**
0.2900 in	14-40	1 in	3 in	⅜ in	**4PEN9**
0.2400 in	16-48	0.8000 in	2½ in	¼ in	**4PEN7**
0.2400 in	16-48	½ in	2½ in	¼ in	**4PEN6**
0.1820 in	18-56	0.4000 in	2½ in	¼ in	**4PEN4**
0.1820 in	18-56	0.6500 in	2½ in	¼ in	**4PEN5**
0.1380 in	24-56	0.4000 in	2 in	3⁄16 in	**4PEN2**
0.1380 in	24-56	0.6000 in	2 in	3⁄16 in	**4PEN3**
0.0980 in	32-64	0.4000 in	2 in	3⁄16 in	**4PEL8**
0.0980 in	32-64	¼ in	2 in	3⁄16 in	**4PEL7**
0.1200 in	32-56	0.3000 in	2 in	3⁄16 in	**4PEL9**
0.1200 in	32-56	½ in	2 in	3⁄16 in	**4PEN1**
0.0800 in	40-64	0.1900 in	2 in	3⁄16 in	**4PEL5**
0.0800 in	40-64	0.3000 in	2 in	3⁄16 in	**4PEL6**
0.0720 in	48-72	0.1500 in	2 in	3⁄16 in	**4PEL3**
0.0720 in	48-72	¼ in	2 in	3⁄16 in	**4PEL4**
0.0590 in	56-80	0.2000 in	1½ in	⅛ in	**4PEK9**
0.0600 in	56-80	0.2000 in	2 in	3⁄16 in	**4PEL2**
0.0590 in	56-80	⅛ in	1½ in	⅛ in	**4PEK8**
0.0600 in	56-80	⅛ in	2 in	3⁄16 in	**4PEL1**
UN, 4 Flutes					
0.3720 in	12-32	0.8500 in	3 in	⅜ in	**4PEP1**
0.3720 in	12-32	1¼ in	3 in	⅜ in	**4PEP2**
UN, 5 Flutes					
0.4880 in	11-32	0.8500 in	3½ in	½ in	**4XXR3**
0.4880 in	11-32	1.3500 in	3½ in	½ in	**4XXR4**
UN, 6 Flutes					
0.7450 in	4-8	1½ in	5 in	¾ in	**4XXR9**
0.7450 in	4-8	2½ in	5 in	¾ in	**4XXT1**
0.6950 in	9-24	1½ in	5 in	¾ in	**4XXR7**
0.6950 in	9-24	2½ in	5 in	¾ in	**4XXR8**
0.5950 in	10-32	1¼ in	4 in	⅝ in	**4XXR5**
0.5950 in	10-32	2 in	4 in	⅝ in	**4XXR6**

Straight-Flute Thread Mills

SCT

- Carbide material

Straight-flute thread mills are suitable for general purpose thread-milling applications and create internal threads of the same pitch in a range of hole diameters, eliminating the need to change tools when threading multiple holes of different sizes. They provide good strength but require a rigid machine setup. For use in CNC machines that have helical interpolation capability.

3 Flutes No. 4PER8



Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
Bright (Uncoated) Finish					
Metric, 3 Flutes					
M3.5x.6	0.0900 in	0.2690 in	2½ in	¼ in	**4PET1**
M3x.5	0.0900 in	0.2640 in	2½ in	¼ in	**4PET3**
M4.5x.75	⅛ in	0.3370 in	2½ in	¼ in	**4PEW5**
M4.5x0.75	⅛ in	0.2190 in	2½ in	¼ in	**4PEX7**
M4x0.5	7⁄64 in	0.3230 in	2½ in	¼ in	**4PEX9**
M5x0.7	0.1400 in	0.3970 in	2½ in	¼ in	**4PFA6**
M5x0.8	0.1400 in	0.3910 in	2½ in	¼ in	**4PFA8**
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	**4PFD1**
M6x0.75	0.1700 in	0.5430 in	2½ in	¼ in	**4PFE1**
M6x1	0.1700 in	0.5280 in	2½ in	¼ in	**4PFJ6**
M8x0.75	0.2350 in	0.6620 in	2½ in	¼ in	**4PFL1**
M8x1	0.2350 in	0.6850 in	2½ in	¼ in	**4PFP9**
M8x1.25	0.2350 in	0.6600 in	2½ in	¼ in	**4PFP5**
Metric, 4 Flutes					
M10x1.5	0.2900 in	0.7920 in	3½ in	5⁄16 in	**4LLE6**
M12x1	0.4000 in	1.0790 in	3½ in	½ in	**4PDW7**
M12x1.25	0.3450 in	0.8070 in	3½ in	⅜ in	**4LLG4**
M12x1.5	0.3450 in	0.7920 in	3½ in	⅜ in	**4PDV7**
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	**4PDX8**
M14x1.5	0.4500 in	1.0870 in	3½ in	½ in	**4PEF8**
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	**4PEG3**
M14x2	0.4500 in	1.1340 in	3½ in	½ in	**4PEP9**
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	**4XYC1**
M24x1	0.7400 in	1.0620 in	6 in	¾ in	**4XYC3**
M24x2.5	0.7400 in	1.0760 in	6 in	¾ in	**4XYC4**
M24x3	0.7400 in	1.0580 in	6 in	¾ in	**4XYC6**
Metric, 6 Flutes					
M36x4	0.9900 in	1.0950 in	7½ in	1 in	**4XYC7**
M40x6	0.9900 in	1.1920 in	7½ in	1 in	**4PFA4**
NPT, 4 Flutes					
⅛"-27	0.2750 in	0.7580 in	3½ in	⅜ in	**4XXU3**
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	**4PEW7**
½ in, ¾"-14	0.4300 in	1.1050 in	3½ in	½ in	**4PEZ1**
NPT, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFC7**

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
NPTF, 4 Flutes					
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	**4PEV8**
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	**4PEW8**
½ in, ¾"-14	0.4400 in	1.0340 in	6 in	¾ in	**4XXV7**
NPTF, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFC8**
UN, 3 Flutes					
#10-24	0.1400 in	0.3920 in	2½ in	¼ in	**4PER6**
#10-28	0.1400 in	0.4090 in	2½ in	¼ in	**4PER7**
#10-32	0.1400 in	0.3880 in	2½ in	¼ in	**4PER8**
#10-48	0.1400 in	0.3830 in	2½ in	¼ in	**4PER9**
#6-32	0.0980 in	0.2630 in	2½ in	¼ in	**4PEP4**
#6-40	0.0980 in	0.2600 in	2½ in	¼ in	**4PEP5**
#8-24	⅛ in	0.3500 in	2½ in	¼ in	**4PER4**
#8-32	7⁄64 in	0.3250 in	2½ in	¼ in	**4LLE8**
#8-36	7⁄64 in	0.3450 in	2½ in	¼ in	**4LLE9**
¼"-20	0.1700 in	0.5700 in	2½ in	¼ in	**4PET5**
¼"-24	0.1700 in	0.5590 in	2½ in	¼ in	**4PET6**
¼"-36	0.1700 in	0.5400 in	2½ in	¼ in	**4PET9**
¼"-20	0.1870 in	0.5700 in	2½ in	¼ in	**4PEU1**
¼"-24	0.1870 in	0.5590 in	2½ in	¼ in	**4PEU2**
¼"-32	0.1870 in	0.5450 in	2½ in	¼ in	**4PEU4**
¼"-36	0.1870 in	0.5400 in	2½ in	¼ in	**4PEU5**
¼"-40	0.1870 in	0.5600 in	2½ in	¼ in	**4PEU6**
¼"-48	0.1870 in	0.5510 in	2½ in	¼ in	**4PEU7**
5⁄16"-18	0.2350 in	0.6890 in	2½ in	¼ in	**4PEV1**
UN, 4 Flutes					
¼ in, ⅜"-18	0.3870 in	0.6820 in	3½ in	7⁄16 in	**4XXV2**
⅜"-16	0.2900 in	0.7750 in	3½ in	9⁄16 in	**4PEV9**
⅜"-20	0.2900 in	0.8200 in	3½ in	9⁄16 in	**4PEW1**
⅜"-24	0.2900 in	0.8090 in	3½ in	9⁄16 in	**4PEW2**
⅜"-27	0.2900 in	0.7940 in	3½ in	9⁄16 in	**4PEW3**
⅜"-32	0.2900 in	0.7940 in	3½ in	9⁄16 in	**4PEW4**
⅜"-18	0.3870 in	0.6620 in	3½ in	7⁄16 in	**4XXV3**
7⁄16"-14	0.3450 in	0.8160 in	3½ in	⅜ in	**4PEW9**
7⁄16"-18	0.3450 in	0.8000 in	3½ in	⅜ in	**4PEX1**
7⁄16"-20	0.3450 in	0.8210 in	3½ in	⅜ in	**4PEX2**
7⁄16"-24	0.3450 in	0.8090 in	3½ in	⅜ in	**4PEX3**
7⁄16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	**4PEX4**
½"-13	0.4000 in	1.1080 in	3½ in	½ in	**4PEY3**
½"-16	0.4000 in	1.0870 in	3½ in	½ in	**4PEY4**
½"-20	0.4000 in	1.1200 in	3½ in	½ in	**4PEY5**
½"-24	0.4000 in	1.1000 in	3½ in	½ in	**4PEY6**
½ "-28	0.4000 in	1.0870 in	3½ in	½ in	**4PEY7**
½"-32	0.4000 in	1.1060 in	3½ in	½ in	**4PEY8**
9⁄16"-12	0.4000 in	1.1170 in	3½ in	½ in	**4PEY2**
9⁄16"-16	0.4500 in	1.0870 in	3½ in	½ in	**4PEZ6**
9⁄16"-20	0.4500 in	1.1200 in	3½ in	½ in	**4PEZ8**
⅝"-11	0.4500 in	1.1270 in	3½ in	½ in	**4PEZ4**

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
⅝"-12	0.4500 in	1.1170 in	3½ in	½ in	**4PEZ5**
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	**4PEZ3**
1"-10	0.7400 in	1.0970 in	6 in	¾ in	**4XYC8**
1"-12	0.7400 in	1.0800 in	6 in	¾ in	**4XYC9**
1"-20	0.7400 in	1.0970 in	6 in	¾ in	**4XYD3**
1"-7	0.7400 in	1.1350 in	6 in	¾ in	**4XYD4**
1"-8	0.7400 in	1.1180 in	6 in	¾ in	**4XYD5**
UN, 6 Flutes					
⅝"-14	0.4900 in	1.1000 in	3½ in	½ in	**4PFA1**
⅝"-16	0.4900 in	1.0870 in	3½ in	½ in	**4PFA2**
¾"-12	0.4900 in	1.1170 in	3½ in	½ in	**4PEZ9**
⅞"-12	0.6200 in	1.1170 in	3½ in	⅝ in	**4PFA9**
⅞"-14	0.6200 in	1.1000 in	3½ in	⅝ in	**4PFC1**
⅞"-16	0.6200 in	1.0870 in	3½ in	⅝ in	**4PFC2**
⅞"-9	0.6200 in	1.1570 in	3½ in	⅝ in	**4PFC4**
1.0"-8	0.6200 in	1.1770 in	3½ in	⅝ in	**4PFC3**
1½ in	0.9900 in	1.1950 in	7½ in	1 in	**4XYD6**
1½"-12	0.9900 in	1.1660 in	7½ in	1 in	**4XYD7**
1½"-16	0.9900 in	1.1220 in	7½ in	1 in	**4XYD8**
1½ "-6	0.9900 in	1.1520 in	7½ in	1 in	**4XYD9**
TiAlN Finish					
NPT, 4 Flutes					
1⁄16 in ,1/8"-27	0.2180 in	0.5340 in	2½ in	¼ in	**4PFG9**
NPT, 5 Flutes					
1 in to 2"-11-1/2	0.6500 in	1.6050 in	4 in	¾ in	**4PFR6**
NPTF, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFR9**
UN, 3 Flutes					
#4-40	0.0800 in	0.2100 in	2½ in	¼ in	**4PFD3**
#6-32	0.0980 in	0.2630 in	2½ in	¼ in	**4PFD4**
UN, 4 Flutes					
⅜"-24	¼ in	0.6870 in	2½ in	¼ in	**4XXY2**
⅜"-28	¼ in	0.6610 in	2½ in	¼ in	**4XXY3**
⅜"-32	¼ in	0.6720 in	2½ in	¼ in	**4XXY4**
⅜"-36	¼ in	0.6820 in	2½ in	¼ in	**4XXY5**
⅜"-40	¼ in	0.6620 in	2½ in	¼ in	**4XXY6**
7⁄16"-16	0.3500 in	0.7830 in	6 in	¾ in	**4XXZ2**
7⁄16"-20	0.3500 in	0.8230 in	6 in	¾ in	**4XXZ4**
7⁄16"-24	0.3500 in	0.8560 in	6 in	¾ in	**4XXZ5**
½ "-12	0.4000 in	1.1170 in	3½ in	½ in	**4PFL3**
⅝"-12	½ in	1.0420 in	6 in	¾ in	**4XYA3**
⅝"-14	½ in	1.0370 in	6 in	¾ in	**4XYA4**
⅝"-16	½ in	1.0330 in	6 in	¾ in	**4XYA5**
1"-12	¾ in	1.1760 in	6 in	¾ in	**4XYA6**
1"-14	¾ in	1.1520 in	6 in	¾ in	**4XYA7**
1"-18	¾ in	1.1170 in	6 in	¾ in	**4XYA8**
1"-20	¾ in	1.1060 in	6 in	¾ in	**4XYA9**
UN, 6 Flutes					
⅜"-16	0.4900 in	1.0870 in	3½ in	½ in	**4PFP3**

MONSTER

Carbide End Mill Sets

- ⅛", 3⁄16", ¼", ⅜", ½" sizes included
- Center cutting

Sets contain five end mills in a range of sizes and are ideal for job sites that frequently use various sizes of end mills in machining tasks.



Ball End Mill
No. 45XW26

Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Ball				
AlTin Finish	3	—	30°	45XV08
	4	—	30°	45XW26
Bright (Uncoated) Finish	2	—	30°	45XU24
	3	—	30°	45XV07
	4	—	30°	45XW25
TiCN Finish	2	—	30°	45XU25
Corner Radius				
Bright (Uncoated) Finish	2	0.005 to 0.010"	42°	52ZT35
	3	1⁄64"	42°	52ZU91
ZrN Finish	2	1⁄64"	42°	52ZT36
	3	1⁄64"	42°	52ZU92

Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Drill Mill				
AlTin Finish	2	—	30°	45XM45
	4	—	30°	45XM47
Bright (Uncoated) Finish	2	—	30°	45XM44
	4	—	30°	45XM46
Square				
AlTiCrN Finish	4	—	Variable	45XY16
AlTin Finish	3	—	30°	45XJ81
	4	—	30°	45XM43
Bright (Uncoated) Finish	3	—	42°	52ZL40
	3	—	30°	45XJ80
	4	—	30°	45XM42
	4	—	Variable	45XY15
TiCN Finish	2	—	30°	45XH96
ZrN Finish	3	—	42°	52ZL41

Square End Mills



List# I2S
No. 48GY99

Square end mills have a square nose and create a flat-bottomed groove with 90° inside corners in milling tasks. Also called square-nose end mills, they are used for counterboring, side and face milling, and milling square shoulders.

General purpose end mills are intended for milling a wide variety of common materials.

High-performance end mills are used in production milling.

Roughing end mills remove large amounts of material from a workpiece more quickly than roughing/finishing and finishing end mills.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.



Bright (Uncoated) Finish
3 Flutes
No. 438K91

MONSTER | YG | CLEVELAND | GORILLA MILL

High-Performance Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTiCrN Finish						
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	Variable	Monster	45XX47
⅛ in	1 in	3 in	⅛ in	Variable	Monster	45XX51
¼ in	¾ in	2 ½ in	¼ in	Variable	Monster	45XX59
¼ in	1 ½ in	4 in	¼ in	Variable	Monster	45XX63
⅜ in	1 in	2 ½ in	⅜ in	Variable	Monster	45XX71
⅜ in	1 ¾ in	4 in	⅜ in	Variable	Monster	45XX75
½ in	1 ¼ in	3 in	½ in	Variable	Monster	45XX85
½ in	1 in	3 in	½ in	Variable	Monster	45XX83
½ in	2 in	4 in	½ in	Variable	Monster	45XX89
½ in	3 in	6 in	½ in	Variable	Monster	45XX91
¾ in	1 ½ in	4 in	¾ in	Variable	Monster	45XX99
¾ in	2 ¼ in	5 in	¾ in	Variable	Monster	45XY02
¾ in	3 in	6 in	¾ in	Variable	Monster	45XY04
¾ in	4 in	7 in	¾ in	Variable	Monster	45XY06
1 in	3 in	6 in	1 in	Variable	Monster	45XY12
1 in	4 in	7 in	1 in	Variable	Monster	45XY14
Bright (Uncoated) Finish						
2 Flutes						
⅛ in	¼ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	35U873
⅛ in	⅜ in	1 ½ in	⅛ in	30 °	OSG	2TWC5
⅛ in	⅜ in	1 ½ in	⅛ in	45 °	Cleveland	32ZY87
⅛ in	½ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	35U747
3⁄16 in	5⁄16 in	2 in	3⁄16 in	45 °	Cleveland	32ZY88
3⁄16 in	9⁄16 in	2 in	3⁄16 in	30 °	OSG	2TWD5
¼ in	¼ in	4 in	¼ in	30 °	OSG	33PA47
¼ in	⅜ in	2 ½ in	¼ in	45 °	Cleveland	32ZY90
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	2TWD6
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	35U755
¼ in	1 ¼ in	3 in	¼ in	45 °	Cleveland	32ZY92
⅜ in	½ in	2 ½ in	⅜ in	45 °	Cleveland	32ZY97
⅜ in	1 in	2 ½ in	⅜ in	30 °	YG-1 Tool Company	35U757
⅜ in	2 ½ in	6 in	⅜ in	45 °	Cleveland	32ZZ01
½ in	⅜ in	2 ½ in	½ in	30 °	YG-1 Tool Company	35U881
½ in	⅜ in	3 in	½ in	45 °	Cleveland	32ZZ05
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	35U759
½ in	2 in	4 in	½ in	30 °	YG-1 Tool Company	35U956
½ in	2 in	4 in	½ in	45 °	Cleveland	32ZZ07
½ in	3 ⅛ in	6 in	½ in	45 °	Cleveland	32ZZ08
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	35U761
¾ in	1 in	4 in	¾ in	45 °	Cleveland	32ZZ13
¾ in	2 ¼ in	5 in	¾ in	30 °	YG-1 Tool Company	35U958
¾ in	3 ¼ in	6 in	¾ in	45 °	Cleveland	32ZZ15
1 in	1 ¼ in	5 in	1 in	45 °	Cleveland	32ZZ17
1 in	3 ¼ in	6 in	1 in	45 °	Cleveland	32ZZ19
1 in	4 ⅛ in	7 in	1 in	45 °	Cleveland	32ZZ20
Diamond Finish						
2 Flutes						
⅛ in	½ in	1 ¾ in	⅛ in	30 °	OSG	30L525
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	OSG	30L523
4 Flutes						
⅛ in	½ in	1 ¾ in	⅛ in	30 °	OSG	2WDL9
3⁄16 in	¾ in	2 in	3⁄16 in	30 °	OSG	30L533
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	2WDN1
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	OSG	2WDN3

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
DLC Finish						
3 Flutes						
¾ in	2 1⁄64 in	4 ½ in	¾ in	35 °	OSG	54LD15
1 in	2 1⁄64 in	4 ½ in	1 in	35 °	OSG	54LD18
20.00mm	30.00mm	100.00mm	20.00mm	35 °	OSG	54LD20
20.00mm	50.00mm	110.00mm	20.00mm	35 °	OSG	54LD22
20.00mm	100.00mm	160.00mm	20.00mm	35 °	OSG	54LD23
25.00mm	37.50mm	100.00mm	25.00mm	35 °	OSG	54LD21
GMS Finish						
5 Flutes						
¼ in	¾ in	2 ½ in	¼ in	Variable	Gorilla Mill	36PP05
½ in	⅜ in	2 ½ in	½ in	Variable	Gorilla Mill	36PN80
¾ in	1 ½ in	4 in	¾ in	Variable	Gorilla Mill	36PP21
7 Flutes						
¼ in	½ in	2 in	¼ in	Variable	Gorilla Mill	36PP08
½ in	⅝ in	2 ½ in	½ in	Variable	Gorilla Mill	36PN81
GMX-35 Finish						
4 Flutes						
¼ in	3 in	6 in	¼ in	Variable	Gorilla Mill	36PJ61
⅜ in	⅛ in	2 ½ in	⅜ in	Variable	Gorilla Mill	36PK82
⅜ in	1 ¼ in	3 in	⅜ in	Variable	Gorilla Mill	36PK84
½ in	1 ¼ in	3 in	½ in	Variable	Gorilla Mill	36PH97
½ in	1 in	3 in	½ in	Variable	Gorilla Mill	36PJ01
½ in	1 ½ in	4 in	½ in	Variable	Gorilla Mill	36PJ04
¾ in	1 ½ in	4 in	¾ in	Variable	Gorilla Mill	36PK30
¾ in	1 in	4 in	¾ in	Variable	Gorilla Mill	36PK36
1 in	1 ½ in	4 in	1 in	Variable	Gorilla Mill	36PH34
5 Flutes						
¼ in	3 in	6 in	¼ in	Variable	Gorilla Mill	36PJ62
1 in	1 ½ in	4 in	1 in	Variable	Gorilla Mill	36PH36
1 in	3 in	6 in	1 in	Variable	Gorilla Mill	36PH47
TiAlN Finish						
2 Flutes						
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	35U799
½ in	⅜ in	2 ½ in	½ in	30 °	YG-1 Tool Company	35U908
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	35U804
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	35U806
1 in	1 ½ in	4 in	1 in	30 °	YG-1 Tool Company	35U807
4 Flutes						
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	35U862
¼ in	1 ⅛ in	3 in	¼ in	30 °	YG-1 Tool Company	35V003
⅜ in	⅝ in	2 in	⅜ in	30 °	YG-1 Tool Company	35U945
⅜ in	1 in	2 ½ in	⅜ in	30 °	YG-1 Tool Company	35U865
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	YG-1 Tool Company	35V005
½ in	⅜ in	2 ½ in	½ in	30 °	YG-1 Tool Company	35U947
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	35U867
½ in	2 in	4 in	½ in	30 °	YG-1 Tool Company	35V007
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	35U869
TiN Finish						
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	35U833
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	35U841
⅜ in	⅜ in	2 in	⅜ in	30 °	YG-1 Tool Company	35U932
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	YG-1 Tool Company	35U994
½ in	⅜ in	2 ½ in	½ in	30 °	YG-1 Tool Company	35U934
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	35U846
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	35U848
¾ in	2 ¼ in	5 in	¾ in	30 °	YG-1 Tool Company	35U998
1 in	1 ½ in	4 in	1 in	30 °	YG-1 Tool Company	35U849
1 in	2 ¼ in	5 in	1 in	30 °	YG-1 Tool Company	35U999
ZrN Finish						
3 Flutes						
⅛ in	⅜ in	1 ½ in	⅛ in	35 °	Cleveland	407H92
¼ in	⅜ in	2 in	¼ in	35 °	Cleveland	407H95
¼ in	¾ in	2 ½ in	¼ in	35 °	Cleveland	407H96
⅜ in	½ in	2 in	⅜ in	35 °	Cleveland	407J03
⅜ in	1 in	2 ½ in	⅜ in	35 °	Cleveland	407J04
⅜ in	1 ½ in	3 ½ in	⅜ in	35 °	Cleveland	407J05
½ in	⅝ in	2 ½ in	½ in	35 °	Cleveland	407J10
½ in	1 ¼ in	3 in	½ in	35 °	Cleveland	407J11
½ in	2 in	4 in	½ in	35 °	Cleveland	407J12
¾ in	1 in	3 in	¾ in	35 °	Cleveland	407J18
¾ in	3 ¼ in	6 in	¾ in	35 °	Cleveland	407J20
1 in	3 ½ in	6 in	1 in	35 °	Cleveland	407J23

WIDIA HANITA | SGS Solid Carbide Tools | MICRO 100 super carbide tools | CLEVELAND | YG | ONSRUD ONSRUD CUTTER LP

AlTin Finish
6 Flutes
No. 48LM70



High-Performance Roughing/ Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Shank Type	Helix Angle	Brand	Item No.
AlTin Finish							
4 Flutes							
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**45RM90**
¼ in	¾ in	2 ½ in	¼ in	Straight	30 °	SGS Tool	**41CG12**
¼ in	1 ¼ in	3 ¼ in	¼ in	Straight	38 °	Widia Hanita	**48HZ93**
¼ in	1 ½ in	4 in	¼ in	Straight	30 °	SGS Tool	**41CC64**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48HZ58**
⅜ in	1 in	2 ½ in	⅜ in	Straight	30 °	SGS Tool	**41CC72**
⅜ in	1 ⅛ in	3 in	⅜ in	Straight	30 °	SGS Tool	**41CA22**
⅜ in	1 ½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48HZ98**
½ in	⅜ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA29**
½ in	1 in	3 in	½ in	Weldon Flat	38 °	Widia Hanita	**48HZ61**
½ in	1 ¼ in	3 ¼ in	½ in	Straight	41 °	SGS Tool	**41AX14**
½ in	2 ½ in	4 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA44**
½ in	2 in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA03**
¾ in	⅞ in	3 ½ in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JA38**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48HZ79**
¾ in	1 ⅝ in	4 in	¾ in	Straight	38 °	Widia Hanita	**287RN7**
¾ in	1 in	7 in	¾ in	Straight	38 °	Widia Hanita	**48JE61**
¾ in	2 ¼ in	5 in	¾ in	Straight	38 °	Widia Hanita	**287RN8**
¾ in	3 in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JA51**
1 in	1 ½ in	4 in	1 in	Weldon Flat	38 °	Widia Hanita	**48HZ86**
1 in	3 in	6 in	1 in	Straight	38 °	Widia Hanita	**287RP1**
1¼ in	2 ¼ in	5 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**48HZ90**
5 Flutes							
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**430F43**
¼ in	½ in	2 in	¼ in	Straight	45 °	Micro 100	**16F223**
¼ in	⅜ in	4 in	¼ in	Straight	38 °	Widia Hanita	**430G43**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Widia Hanita	**48GV03**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48GV11**
½ in	⅝ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**430F77**
½ in	⅝ in	6 in	½ in	Weldon Flat	38 °	Widia Hanita	**430G72**
½ in	1 ¼ in	3 in	½ in	Straight	38 °	Widia Hanita	**48GV22**
½ in	1 in	3 in	½ in	Straight	38 °	Widia Hanita	**430F81**
½ in	1 ⅝ in	4 in	½ in	Straight	38 °	Widia Hanita	**430F91**
½ in	2 ⅛ in	4 in	½ in	Straight	38 °	Widia Hanita	**287RE9**
¾ in	1 in	3 in	¾ in	Straight	45 °	SGS Tool	**41AV23**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JH02**
¾ in	1 in	4 in	¾ in	Straight	38 °	Widia Hanita	**430G84**
¾ in	1 ½ in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**430G89**
¾ in	1 ½ in	7 in	¾ in	Weldon Flat	38 °	Widia Hanita	**430G95**
1 in	1 ¼ in	4 in	1 in	Straight	38 °	Widia Hanita	**430G96**
1 in	1 ¾ in	4 ½ in	1 in	Weldon Flat	38 °	Widia Hanita	**48JH12**
1 in	3 ¼ in	6 in	1 in	Weldon Flat	38 °	Widia Hanita	**430G32**
1¼ in	3 ¼ in	6 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**430G36**
1¼ in	5 in	8 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**430G38**
4.00mm	8.00mm	57.0mm	6.000mm	Straight	45 °	Micro 100	**16F249**
4.00mm	11.00mm	55.00mm	6.00mm	Straight	38 °	Widia Hanita	**48LA99**
5.00mm	10.00mm	57.0mm	6.000mm	Straight	45 °	Micro 100	**16F253**
6.00mm	10.00mm	57.0mm	6.000mm	Straight	45 °	Micro 100	**16F257**
8.00mm	16.00mm	63.0mm	8.000mm	Straight	45 °	Micro 100	**16F261**
8.00mm	19.00mm	63.00mm	8.00mm	Straight	38 °	Widia Hanita	**48LC10**
8.00mm	19.00mm	76.00mm	8.00mm	Straight	38 °	Widia Hanita	**48LC45**
10.00mm	19.00mm	72.0mm	10.000mm	Straight	45 °	Micro 100	**16F265**
10.00mm	22.00mm	72.00mm	10.00mm	Straight	38 °	Widia Hanita	**48LC15**
10.00mm	22.00mm	76.00mm	10.00mm	Straight	38 °	Widia Hanita	**48LD09**
12.00mm	26.00mm	83.00mm	12.00mm	Weldon Flat	38 °	Widia Hanita	**48JZ03**
12.00mm	26.00mm	83.00mm	12.00mm	Straight	38 °	Widia Hanita	**48LC18**
16.00mm	32.00mm	92.00mm	16.00mm	Straight	38 °	Widia Hanita	**48LC24**
20.00mm	38.00mm	104.00mm	20.00mm	Weldon Flat	38 °	Widia Hanita	**48JY90**
25.00mm	45.00mm	135.00mm	25.00mm	Straight	38 °	Widia Hanita	**48LD43**
6 Flutes							
6.00mm	10.00mm	54.00mm	6.00mm	Weldon Flat	45 °	Widia Hanita	**48LM70**
8.00mm	12.00mm	58.00mm	8.00mm	Weldon Flat	45 °	Widia Hanita	**48LM71**
10.00mm	14.00mm	66.00mm	10.00mm	Weldon Flat	45 °	Widia Hanita	**48LM72**
12.00mm	16.00mm	73.00mm	12.00mm	Weldon Flat	45 °	Widia Hanita	**48LM73**
14.00mm	26.00mm	83.00mm	14.00mm	Weldon Flat	45 °	Widia Hanita	**48LM82**
16.00mm	32.00mm	92.00mm	16.00mm	Weldon Flat	45 °	Widia Hanita	**48LM83**
20.00mm	26.00mm	92.00mm	20.00mm	Weldon Flat	45 °	Widia Hanita	**48LM77**
TiAlN Finish							
2 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Shrink Fit	35 °	OSG	**30L363**
⅜ in	1 in	2 ½ in	⅜ in	Shrink Fit	35 °	OSG	**30L367**
½ in	1 in	3 in	½ in	Shrink Fit	35 °	OSG	**30L370**
3 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Shrink Fit	60 °	OSG	**35CJ19**
⅜ in	1 in	2 ½ in	⅜ in	Shrink Fit	60 °	OSG	**35CJ22**
½ in	1 in	3 in	½ in	Shrink Fit	60 °	OSG	**35CJ26**
4 Flutes							
3⁄64 in	9⁄64 in	1 ½ in	⅛ in	Shrink Fit	35 °	OSG	**30L376**
⅛ in	3⁄16 in	3 in	¼ in	Shrink Fit	30 °	OSG	**35CK26**
⅛ in	¼ in	1 ½ in	⅛ in	Straight	38 °	Cleveland	**33GD60**
⅛ in	⅜ in	1 ½ in	⅛ in	Shrink Fit	35 °	OSG	**30L457**
⅛ in	⅜ in	1 ½ in	⅛ in	Straight	Variable	YG-1 Tool Company	**33TR35**
⅛ in	½ in	1 ½ in	⅛ in	Shrink Fit	35 °	OSG	**30L382**
⅛ in	½ in	1 ½ in	⅛ in	Shrink Fit	50 °	OSG	**35CJ36**
⅛ in	½ in	2 in	⅛ in	Straight	38 °	Widia Hanita	**48JA62**
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**48JC67**
¼ in	⅜ in	4 in	¼ in	Straight	38 °	Widia Hanita	**48JE21**
¼ in	7⁄16 in	2 ½ in	¼ in	Shrink Fit	35 °	OSG	**30L459**
¼ in	½ in	2 in	¼ in	Straight	38 °	Cleveland	**33GD72**
¼ in	¾ in	2 ½ in	¼ in	Shrink Fit	30 °	OSG	**30L746**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Cleveland	**33GD74**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Widia Hanita	**48JA71**
¼ in	1 ¼ in	3 ¼ in	¼ in	Straight	38 °	Widia Hanita	**48JC20**
¼ in	1 ¼ in	3 in	¼ in	Straight	38 °	Cleveland	**33GD79**
¼ in	1 ¾ in	4 in	¼ in	Straight	38 °	Widia Hanita	**48JC43**
⅜ in	½ in	2 ½ in	⅜ in	Shrink Fit	35 °	OSG	**30L465**
⅜ in	½ in	2 in	⅜ in	Straight	38 °	Widia Hanita	**48JC73**
⅜ in	½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48JE23**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Cleveland	**33GD88**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48JA82**
⅜ in	1 in	2 ½ in	⅜ in	Shrink Fit	35 °	OSG	**30L393**
⅜ in	1 ⅛ in	3 in	⅜ in	Straight	38 °	Cleveland	**33GD90**
⅜ in	1 ½ in	4 in	⅜ in	Shrink Fit	35 °	OSG	**30L469**
⅜ in	1 ½ in	4 in	⅜ in	Weldon Flat	35 °	OSG	**30L470**
⅜ in	2 ½ in	4 in	⅜ in	Shrink Fit	35 °	OSG	**30L471**
⅜ in	2 ½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48JC48**
7⁄16 in	⅞ in	2 ½ in	7⁄16 in	Straight	38 °	Widia Hanita	**48JA84**
7⁄16 in	1 in	2 ¾ in	7⁄16 in	Shrink Fit	35 °	OSG	**30L395**
7⁄16 in	1 in	2 ¾ in	7⁄16 in	Weldon Flat	35 °	OSG	**30L474**
7⁄16 in	1 in	2 ¾ in	7⁄16 in	Shrink Fit	35 °	OSG	**30L473**
½ in	⅝ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC79**
½ in	⅝ in	5 in	½ in	Straight	38 °	Widia Hanita	**48JE25**
½ in	1 ¼ in	3 in	½ in	Shrink Fit	30 °	OSG	**30L749**
½ in	1 ¼ in	3 ½ in	½ in	Shrink Fit	35 °	OSG	**30L484**
½ in	1 in	3 in	½ in	Weldon Flat	35 °	OSG	**30L476**
½ in	1 ¼ in	3 in	½ in	Straight	38 °	Cleveland	**33GE08**
½ in	1 in	3 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA86**
½ in	1 ½ in	4 in	½ in	Weldon Flat	35 °	OSG	**30L478**
½ in	1 ½ in	4 in	½ in	Shrink Fit	35 °	OSG	**30L485**
½ in	1 ½ in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC92**
½ in	2 ½ in	4 in	½ in	Shrink Fit	35 °	OSG	**30L487**
½ in	2 ½ in	4 in	½ in	Weldon Flat	35 °	OSG	**30L480**
½ in	2 ½ in	4 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC95**
½ in	2 in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC29**
½ in	3 in	5 in	½ in	Shrink Fit	35 °	OSG	**30L488**
½ in	3 in	5 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC52**
⅝ in	¾ in	3 in	⅝ in	Straight	38 °	Cleveland	**33GE19**
⅝ in	¾ in	3 in	⅝ in	Weldon Flat	38 °	Widia Hanita	**48JC83**
⅝ in	1 ⅝ in	3 ½ in	⅝ in	Shrink Fit	30 °	OSG	**30L750**
⅝ in	1 ¼ in	3 ½ in	⅝ in	Weldon Flat	35 °	OSG	**30L490**
⅝ in	1 ⅝ in	5 in	⅝ in	Weldon Flat	35 °	OSG	**30L491**
⅝ in	2 ¼ in	5 in	⅝ in	Shrink Fit	35 °	OSG	**30L497**
⅝ in	2 ¼ in	5 in	⅝ in	Weldon Flat	38 °	Widia Hanita	**48JC32**
⅝ in	3 in	6 in	⅝ in	Shrink Fit	35 °	OSG	**30L498**
¾ in	⅞ in	3 ½ in	¾ in	Weldon Flat	35 °	OSG	**30L499**
¾ in	⅞ in	3 ½ in	¾ in	Shrink Fit	35 °	OSG	**30L506**
¾ in	1 ⅝ in	4 in	¾ in	Shrink Fit	30 °	OSG	**30L751**
¾ in	1 ½ in	4 in	¾ in	Shrink Fit	35 °	OSG	**30L401**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	35 °	OSG	**30L501**
¾ in	1 ⅝ in	4 in	¾ in	Shrink Fit	35 °	OSG	**30L508**
¾ in	1 ⅝ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JD05**
¾ in	1 in	5 in	¾ in	Straight	38 °	Widia Hanita	**48JE35**
¾ in	2 ¼ in	5 in	¾ in	Shrink Fit	35 °	OSG	**30L509**
¾ in	2 ¼ in	5 in	¾ in	Weldon Flat	35 °	OSG	**30L503**
¾ in	3 in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JD03**
¾ in	4 in	6 ¼ in	¾ in	Weldon Flat	35 °	OSG	**30L505**
⅞ in	1 ½ in	4 in	⅞ in	Shrink Fit	35 °	OSG	**30L402**
1 in	1 ¾ in	4 in	1 in	Shrink Fit	30 °	OSG	**30L745**
1 in	1 ½ in	4 in	1 in	Shrink Fit	35 °	OSG	**30L380**
1 in	1 ½ in	4 in	1 in	Weldon Flat	35 °	OSG	**30L447**
1 in	1 ⅛ in	7 in	1 in	Weldon Flat	35 °	OSG	**35CH79**
1 in	2 ½ in	5 in	1 in	Weldon Flat	35 °	OSG	**30L449**
1 in	2 ¼ in	5 in	1 in	Weldon Flat	38 °	Widia Hanita	**48JC40**
1 in	2 in	5 in	1 in	Weldon Flat	38 °	Widia Hanita	**48JD07**
1 in	3 in	6 in	1 in	Weldon Flat	35 °	OSG	**30L450**
1 in	4 in	7 in	1 in	Shrink Fit	35 °	OSG	**30L456**
5 Flutes							
⅛ in	½ in	1 ½ in	⅛ in	Shrink Fit	45 °	OSG	**35CK35**
¼ in	1 ¼ in	3 in	¼ in	Straight	38 °	Cleveland	**33GG34**
⅜ in	1 in	2 ½ in	⅜ in	Shrink Fit	45 °	OSG	**35CK47**
½ in	⅝ in	2 ½ in	½ in	Straight	38 °	Cleveland	**33GG55**
⅝ in	1 ¼ in	3 ½ in	⅝ in	Shrink Fit	45 °	OSG	**35CK55**
¾ in	1 ½ in	4 in	¾ in	Shrink Fit	45 °	OSG	**35CK57**
6 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Shrink Fit	50 °	OSG	**35CJ41**
⅜ in	1 in	2 ½ in	⅜ in	Shrink Fit	50 °	OSG	**35CJ44**
½ in	1 in	3 in	½ in	Shrink Fit	50 °	OSG	**35CJ48**
TiN Finish							
4 Flutes							
3⁄16 in	7⁄16 in	2 in	3⁄16 in	Straight	45°	SGS Tool	**41CE41**
¼ in	⅜ in	2 in	¼ in	Straight	40°	Onsrud	**4YGG5**
¼ in	½ in	2 ½ in	¼ in	Straight	38°	SGS Tool	**41CD08**
¼ in	¾ in	2 ½ in	¼ in	Straight	38°	SGS Tool	**41CD07**
⅜ in	½ in	2 in	⅜ in	Straight	40°	Onsrud	**4YGG6**
⅜ in	½ in	2 in	⅜ in	Straight	40°	Onsrud	**4YGH2**
⅜ in	⅝ in	2 in	⅜ in	Straight	41°	SGS Tool	**41CA50**
½ in	⅝ in	2 ½ in	½ in	Straight	41°	SGS Tool	**41AY41**
½ in	⅝ in	3 in	½ in	Straight	45°	SGS Tool	**41AX17**
½ in	1 ¼ in	3 in	½ in	Straight	40°	Onsrud	**4YGJ8**
½ in	1 ¼ in	3 in	½ in	Straight	40°	Onsrud	**4YGK4**
½ in	3 in	6 in	½ in	Straight	30°	SGS Tool	**41AW59**
⅝ in	⅝ in	2 ½ in	½ in	Straight	40°	Onsrud	**4YGG7**
⅝ in	⅝ in	2 ½ in	½ in	Straight	40°	Onsrud	**4YGH3**
⅝ in	¾ in	3 in	⅝ in	Straight	40°	Onsrud	**4YGG8**
⅝ in	¾ in	3 in	⅝ in	Straight	40°	Onsrud	**4YGH4**
⅝ in	1 ⅝ in	3 ½ in	⅝ in	Straight	40°	Onsrud	**4YGJ9**
¾ in	¾ in	2 ½ in	¼ in	Straight	40°	Onsrud	**4YGJ6**
¾ in	1 ⅛ in	3 in	¾ in	Straight	40°	Onsrud	**4YGG9**
¾ in	1 ⅛ in	3 in	¾ in	Straight	40°	Onsrud	**4YGH5**
¾ in	1 ⅛ in	3 in	¾ in	Straight	40°	Onsrud	**4YGH7**
¾ in	1 ⅝ in	4 in	¾ in	Straight	40°	Onsrud	**4YGK1**
1 in	1 ¼ in	3 in	1 in	Straight	40°	Onsrud	**4YGH1**
1 in	1 ¼ in	3 in	1 in	Straight	40°	Onsrud	**4YGH6**
1 in	1 ¼ in	3 in	1 in	Straight	40°	Onsrud	**4YGH8**
1 in	1 ¼ in	5 in	1 in	Straight	40°	Onsrud	**4YGR8**
1 in	2 in	4 in	1 in	Straight	40°	Onsrud	**4YGK2**
1⅛ in	1 ⅛ in	2 ½ in	⅜ in	Straight	40°	Onsrud	**4YGJ7**
1⅛ in	1 ⅛ in	2 ½ in	⅜ in	Straight	40°	Onsrud	**4YGK3**

Scan. Order. Done.
Details on page A1.



AlTin Coated Finish
2 Flutes
No. 19LL01

MONSTER YG WIDIA HANITA CLEVELAND CHAMPION

General Purpose Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Coated Finish						
2 Flutes						
1/8 in	1 in	3 in	1/8 in	30 °	Monster	19LL01
1/4 in	1/2 in	2 in	1/4 in	30 °	Monster	19LA16
1/4 in	1 1/8 in	3 in	1/4 in	30 °	Monster	19LK21
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Monster	19LL07
1/2 in	5/8 in	2 1/2 in	1/2 in	30 °	Monster	19LA26
1/2 in	1 in	3 in	1/2 in	30 °	Monster	19LC53
1/2 in	3 in	6 in	1/2 in	30 °	Monster	19LL23
3/4 in	1 in	3 in	3/4 in	30 °	Monster	19LA30
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LC64
4 Flutes						
1/8 in	1/4 in	1 1/2 in	1/8 in	30 °	Monster	19LA50
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Monster	19LF02
3/16 in	5/8 in	2 in	3/16 in	30 °	Monster	19LF10
3/16 in	1 1/8 in	3 in	3/16 in	30 °	Monster	19LL50
15/64 in	3/4 in	2 1/2 in	1/4 in	30 °	Monster	19LF16
1/4 in	1/2 in	2 in	1/4 in	30 °	Monster	19LA66
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Monster	19LF20
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Monster	19LL55
5/16 in	13/16 in	2 1/2 in	5/16 in	30 °	Monster	19LF25
5/16 in	1 5/8 in	4 in	5/16 in	30 °	Monster	19LL61
3/8 in	1 in	2 1/2 in	3/8 in	30 °	Monster	19LF32
7/16 in	1 in	2 3/4 in	7/16 in	30 °	Monster	19LF37
1/2 in	1 in	3 in	1/2 in	30 °	Monster	19LF47
1/2 in	1 1/4 in	3 in	1/2 in	30 °	Monster	19LF44
1/2 in	1 1/2 in	4 in	1/2 in	30 °	Monster	19LK53
1/2 in	2 in	4 in	1/2 in	30 °	Monster	19LK56
1/2 in	3 in	6 in	1/2 in	30 °	Monster	19LL74
1/2 in	5 in	8 in	1/2 in	30 °	Monster	45XP76
17/32 in	1 1/4 in	3 1/2 in	9/16 in	30 °	Monster	19LF56
9/16 in	1 1/4 in	3 1/2 in	9/16 in	30 °	Monster	19LF52
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Monster	19LF58
5/8 in	3 in	6 in	5/8 in	30 °	Monster	19LL77
11/16 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LF62
47/64 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LF66
3/4 in	1 in	3 in	3/4 in	30 °	Monster	19LA80
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LF70
3/4 in	1 in	4 in	3/4 in	30 °	Monster	19LF68
3/4 in	1 1/2 in	4 in	3/4 in	30 °	YG-1 Tool Company	33TP69
3/4 in	2 1/4 in	5 in	3/4 in	30 °	Monster	19LK60
3/4 in	3 in	6 in	3/4 in	30 °	Monster	19LL80
3/4 in	4 in	7 in	3/4 in	30 °	Monster	19LL83
3/4 in	5 in	8 in	3/4 in	30 °	Monster	45XP84
3/4 in	6 in	9 in	3/4 in	30 °	Monster	45XP86
1 in	1 1/2 in	4 in	1 in	30 °	Monster	19LF80
1 in	1 in	4 in	1 in	30 °	Monster	19LF78
1 in	4 in	7 in	1 in	30 °	Monster	19LL87
4.00mm	14.00mm	51.00mm	4.00mm	30 °	Monster	19LG04
6.00mm	19.00mm	63.00mm	6.00mm	30 °	Monster	19LG12
8.00mm	20.00mm	63.00mm	8.00mm	30 °	Monster	19LG16
9.00mm	22.00mm	63.00mm	10.00mm	30 °	Monster	19LG19
14.00mm	32.00mm	90.00mm	14.00mm	30 °	Monster	19LG27
18.00mm	38.00mm	102.00mm	18.00mm	30 °	Monster	19LG31
20.00mm	38.00mm	102.00mm	20.00mm	30 °	Monster	19LG33
5 Flutes						
3/4 in	3 in	6 in	3/4 in	43 °	Widia Hanita	48JE92
1 in	4 in	7 in	1 in	43 °	Widia Hanita	48JE98
Bright (Uncoated) Finish						
2 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	OSG	2TXG7
17/64 in	3/4 in	2 1/2 in	5/16 in	30 °	OSG	30L858
9/32 in	3/4 in	2 1/2 in	5/16 in	30 °	OSG	30L866
5/16 in	13/16 in	2 1/2 in	5/16 in	30 °	OSG	2TXH2
3/8 in	1 in	2 1/2 in	3/8 in	30 °	OSG	2TXH4
1/2 in	1 in	3 in	1/2 in	30 °	OSG	2TXJ5
1/2 in	1 in	3 in	1/2 in	35 °	Cleveland	33FY66
1/2 in	1 1/2 in	6 in	1/2 in	35 °	Cleveland	33FY71
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	OSG	2TXK2
5/8 in	1 1/4 in	3 1/2 in	5/8 in	35 °	Cleveland	33FY75
5/8 in	2 1/4 in	5 in	5/8 in	35 °	Cleveland	33FY79
5/8 in	3 in	6 in	5/8 in	35 °	Cleveland	33FY80
3/4 in	1 1/2 in	4 in	3/4 in	30 °	OSG	2TXK6
3/4 in	1 1/2 in	4 in	3/4 in	35 °	Cleveland	33FY82
3/4 in	2 1/4 in	5 in	3/4 in	35 °	Cleveland	33FY86
3/4 in	3 in	6 in	3/4 in	35 °	Cleveland	33FY87
3/4 in	4 in	7 in	3/4 in	30 °	Monster	19LL32
1 in	1 1/2 in	4 in	1 in	35 °	Cleveland	33FY91
1 in	2 1/4 in	5 in	1 in	35 °	Cleveland	33FY95
1 in	3 in	6 in	1 in	35 °	Cleveland	33FY96
4.00mm	14.00mm	51.00mm	4.00mm	30 °	OSG	30L827
5.00mm	16.00mm	51.00mm	5.00mm	30 °	OSG	30L840
6.00mm	19.00mm	64.00mm	6.00mm	30 °	OSG	30L854
8.00mm	21.00mm	64.00mm	8.00mm	30 °	OSG	30L876
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	30L888
10.00mm	25.00mm	70.00mm	10.00mm	30 °	OSG	30L901
12.00mm	25.00mm	76.00mm	12.00mm	30 °	OSG	30L925
16.00mm	32.00mm	89.00mm	16.00mm	30 °	OSG	30L940
18.00mm	38.00mm	102.00mm	18.00mm	30 °	Monster	19LD15
20.00mm	38.00mm	102.00mm	20.00mm	30 °	OSG	30L954

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
3 Flutes						
5/16 in	1 1/4 in	3 1/4 in	5/16 in	37 °	Widia Hanita	48HW87
3/8 in	2 1/2 in	4 in	3/8 in	37 °	Widia Hanita	48HX07
1/2 in	5/8 in	5 in	1/2 in	37 °	Widia Hanita	48HM90
1/2 in	1 in	3 in	1/2 in	30 °	Monster	45XJ56
1/2 in	1 1/4 in	3 in	1/2 in	37 °	Widia Hanita	48HW70
1/2 in	2 in	4 in	1/2 in	37 °	Widia Hanita	48HW92
1/2 in	2 1/2 in	5 in	1/2 in	37 °	Widia Hanita	48HX40
3/4 in	2 1/2 in	5 in	3/4 in	42 °	Monster	43RE53
3/4 in	3 in	5 1/4 in	3/4 in	37 °	Widia Hanita	48HX46
4 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Monster	19LF01
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Widia Hanita	48HD91
1/8 in	3/4 in	2 1/4 in	1/8 in	30 °	OSG	2TYA2
3/16 in	5/8 in	2 in	1/8 in	30 °	Widia Hanita	48HD98
3/16 in	5/8 in	2 in	3/16 in	30 °	OSG	30M030
3/16 in	5/8 in	2 in	3/16 in	30 °	Monster	19LF09
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Monster	19LF17
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	OSG	30M052
1/4 in	1 1/8 in	3 in	1/4 in	30 °	OSG	2TYA4
1/4 in	1 1/8 in	3 in	1/4 in	Variable	Gorilla Mill	36NT05
1/4 in	1 in	4 in	1/4 in	30 °	Monster	19LL53
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Monster	19LL54
5/16 in	13/16 in	2 1/2 in	5/16 in	30 °	Widia Hanita	48HE23
5/16 in	13/16 in	2 1/2 in	5/16 in	30 °	Monster	19LF24
3/8 in	7/8 in	2 1/2 in	3/8 in	Variable	Gorilla Mill	36NZ47
3/8 in	1 in	2 1/2 in	3/8 in	30 °	Monster	19LF30
3/8 in	1 in	2 1/2 in	3/8 in	30 °	Widia Hanita	48HE34
3/8 in	1 in	2 1/2 in	3/8 in	30 °	Cleveland	33GA32
3/8 in	1 in	2 1/2 in	3/8 in	30 °	OSG	30M092
3/8 in	1 1/8 in	3 in	3/8 in	30 °	OSG	2TYA7
3/8 in	1 1/8 in	3 in	3/8 in	30 °	Monster	19LK47
3/8 in	1 3/4 in	4 in	3/8 in	30 °	Cleveland	33GA42
3/8 in	1 in	4 in	3/8 in	30 °	Cleveland	33GA40
3/8 in	1 3/4 in	4 in	3/8 in	30 °	OSG	2TYD9
7/16 in	1 in	2 3/4 in	7/16 in	30 °	Monster	19LF36
1/2 in	1 in	3 in	1/2 in	30 °	Widia Hanita	48HE55
1/2 in	1 in	3 in	1/2 in	30 °	Monster	19LF41
1/2 in	1 in	3 in	1/2 in	30 °	Cleveland	33GA55
1/2 in	1 in	3 in	1/2 in	30 °	OSG	30M135
1/2 in	1 1/4 in	3 in	1/2 in	30 °	Monster	19LF45
1/2 in	1 in	3 in	1/2 in	30 °	Monster	19LF48
1/2 in	1 in	3 in	1/2 in	Variable	Gorilla Mill	36NP31
1/2 in	2 in	4 in	1/2 in	30 °	Monster	19LK55
1/2 in	2 in	4 in	1/2 in	30 °	Cleveland	33GA63
1/2 in	2 in	4 in	1/2 in	30 °	OSG	2TYC1
1/2 in	3 in	6 in	1/2 in	30 °	OSG	2TYE3
1/2 in	3 in	6 in	1/2 in	30 °	Cleveland	33GA64
1/2 in	4 in	7 in	1/2 in	30 °	Monster	45XP73
19/32 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Monster	19LF53
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Monster	19LF57
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Widia Hanita	48HE80
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Cleveland	33GA68
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	OSG	30M145
11/16 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LF61
11/16 in	1 3/8 in	4 in	3/4 in	30 °	OSG	30M151
3/4 in	1 in	3 in	3/4 in	30 °	OSG	2TXW9
3/4 in	1 in	4 in	3/4 in	30 °	Monster	19LF67
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	19LF69
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Widia Hanita	48HF05
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Widia Hanita	48HE95
3/4 in	1 1/2 in	4 in	3/4 in	Variable	Gorilla Mill	36NX81
3/4 in	1 1/2 in	6 in	3/4 in	30 °	Monster	19LL88
3/4 in	3 in	6 in	3/4 in	30 °	OSG	2TYE7
3/4 in	3 in	6 in	3/4 in	30 °	Widia Hanita	48HE99
3/4 in	3 in	6 in	3/4 in	Variable	Gorilla Mill	36NY06
3/4 in	4 in	7 in	3/4 in	30 °	Monster	19LL82
13/16 in	1 1/2 in	4 in	7/8 in	30 °	Monster	19LF71
7/8 in	1 1/2 in	4 in	7/8 in	30 °	Monster	19LF73
1 in	1 1/2 in	4 in	1 in	30 °	Widia Hanita	48HF21
1 in	1 1/2 in	4 in	1 in	30 °	Monster	19LF79
1 in	1 1/2 in	4 in	1 in	30 °	OSG	30L995
1 in	2 1/4 in	5 in	1 in	30 °	Widia Hanita	48HF30
1 in	2 1/4 in	5 in	1 in	30 °	OSG	2TXZ9
1 1/4 in	2 in	4 1/2 in	1 1/4 in	30 °	Widia Hanita	48HF35
4.00mm	14.00mm	51.00mm	4.00mm	30 °	OSG	30M018
5.00mm	16.00mm	51.00mm	5.00mm	30 °	OSG	30M032
6.00mm	19.00mm	64.00mm	6.00mm	30 °	OSG	30M048
8.00mm	21.00mm	64.00mm	8.00mm	30 °	OSG	30M072
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	30M084
10.00mm	25.00mm	70.00mm	10.00mm	30 °	OSG	30M098
12.00mm	25.00mm	76.00mm	12.00mm	30 °	OSG	30M127
14.00mm	30.00mm	89.00mm	14.00mm	30 °	OSG	30M137
16.00mm	32.00mm	89.00mm	16.00mm	30 °	OSG	30M147
18.00mm	35.00mm	102.00mm	18.00mm	30 °	OSG	30M155
20.00mm	38.00mm	102.00mm	20.00mm	30 °	OSG	30M161
22.00mm	38.00mm	102.00mm	22.00mm	30 °	Monster	19LG34

CONTINUED

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

CONTINUED

For more information on end mills, see page 2277.

See page 2280 for more information on square end mills.

General Purpose Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
TiAlN Coated Finish						
2 Flutes						
1/16 in	1/2 in	2 in	1/8 in	30 °	Widia Hanita	48GZ08
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Widia Hanita	48GZ21
3/16 in	5/8 in	2 in	3/16 in	30 °	OSG	2TXG3
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	OSG	2TXG9
3/16 in	7/8 in	2 1/2 in	5/16 in	35 °	Cleveland	33GJ16
3/8 in	5/8 in	2 in	3/8 in	30 °	OSG	54LD50
1/2 in	1 in	3 in	1/2 in	30 °	OSG	2TXJ7
9/16 in	1 1/8 in	3 1/2 in	9/16 in	30 °	OSG	2MYF9
9/16 in	1 1/4 in	3 1/2 in	9/16 in	30 °	Widia Hanita	48HA06
5/8 in	1 1/4 in	3 1/2 in	5/8 in	35 °	Cleveland	33GJ43
8.00mm	21.00mm	64.00mm	8.00mm	30 °	OSG	30L877
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	30L889
12.00mm	25.00mm	76.00mm	12.00mm	30 °	OSG	2TXJ3
14.00mm	30.00mm	89.00mm	14.00mm	30 °	OSG	30L933
4 Flutes						
1/16 in	7/64 in	1 1/2 in	1/8 in	30 °	Widia Hanita	48HD82
3/32 in	3/8 in	1 1/2 in	1/8 in	30 °	Widia Hanita	48HD85
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	OSG	30M007
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Widia Hanita	48HD90
1/8 in	3/4 in	2 1/4 in	1/8 in	30 °	Widia Hanita	48HD92
5/32 in	9/16 in	2 in	3/16 in	30 °	OSG	30M017
5/32 in	9/16 in	2 in	1/8 in	30 °	Widia Hanita	48HD96
3/16 in	5/8 in	2 in	3/16 in	30 °	OSG	30M031
3/16 in	5/8 in	2 in	1/8 in	30 °	Widia Hanita	48HD97
3/16 in	3/4 in	2 1/4 in	3/16 in	30 °	OSG	2MYG3
7/32 in	5/8 in	2 1/2 in	1/4 in	30 °	OSG	30M041
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	OSG	30M053
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Widia Hanita	48HE11
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Cleveland	33GK53
1/4 in	1 1/2 in	4 in	1/4 in	30 °	OSG	2TYD7
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Widia Hanita	48HE15
5/16 in	13/16 in	2 1/2 in	5/16 in	30 °	OSG	30M071
5/16 in	1 1/8 in	3 in	5/16 in	30 °	Widia Hanita	48HE24
5/16 in	1 5/8 in	4 in	5/16 in	30 °	OSG	2MYG6
3/8 in	5/8 in	2 in	3/8 in	30 °	OSG	2TXW4
3/8 in	5/8 in	2 in	3/8 in	30 °	Widia Hanita	48HE31
3/8 in	1 in	2 1/2 in	3/8 in	30 °	OSG	30M093
3/8 in	1 in	2 1/2 in	3/8 in	30 °	Widia Hanita	48HE33
3/8 in	1 3/4 in	4 in	3/8 in	30 °	Widia Hanita	48HE37
3/8 in	1 3/4 in	4 in	3/8 in	30 °	OSG	2TYE1
3/8 in	1 3/4 in	4 in	3/8 in	30 °	Cleveland	33GK87
7/16 in	5/8 in	2 1/2 in	7/16 in	30 °	Cleveland	33GK92
7/16 in	1 in	2 3/4 in	7/16 in	30 °	Widia Hanita	48HE42
1/2 in	5/8 in	2 1/2 in	1/2 in	30 °	Widia Hanita	48HE52
1/2 in	5/8 in	2 1/2 in	1/2 in	30 °	OSG	2TXW7
1/2 in	1 in	3 in	1/2 in	30 °	OSG	30M136
1/2 in	1 in	3 in	1/2 in	30 °	Widia Hanita	48HE54
1/2 in	1 in	3 in	1/2 in	30 °	Cleveland	33GL01
1/2 in	1 in	3 in	1/2 in	30 °	Widia Hanita	48HE62
1/2 in	2 in	4 in	1/2 in	30 °	Widia Hanita	48HE56
1/2 in	2 in	4 in	1/2 in	30 °	OSG	2TYC2
1/2 in	3 in	6 in	1/2 in	30 °	OSG	2TYE4
1/2 in	3 in	6 in	1/2 in	30 °	Widia Hanita	48HE66
1/2 in	3 in	6 in	1/2 in	30 °	Widia Hanita	48HE58
9/16 in	1 1/8 in	3 1/2 in	9/16 in	30 °	OSG	30M142
9/16 in	1 1/4 in	3 1/2 in	9/16 in	30 °	Cleveland	33GL12
5/8 in	3/4 in	3 in	5/8 in	30 °	Widia Hanita	48HE77
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	OSG	30M146
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Widia Hanita	48HE79
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Cleveland	33GL14
5/8 in	2 1/4 in	5 in	5/8 in	30 °	Cleveland	33GL18
5/8 in	2 1/4 in	5 in	5/8 in	30 °	OSG	2TYC4
5/8 in	3 in	6 in	5/8 in	30 °	OSG	2TYE6
11/16 in	1 3/8 in	4 in	3/4 in	30 °	OSG	30M152
11/16 in	1 3/8 in	4 in	3/4 in	30 °	Widia Hanita	48HE91
3/4 in	1 1/2 in	4 in	3/4 in	30 °	OSG	30M160
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Widia Hanita	48HE94
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Cleveland	33GL21
3/4 in	3 in	6 in	3/4 in	30 °	OSG	2TYE8
3/4 in	4 in	7 in	3/4 in	30 °	Widia Hanita	48HF01
13/16 in	1 1/2 in	4 in	7/8 in	30 °	Widia Hanita	48HF11
7/8 in	1 1/2 in	4 in	7/8 in	30 °	Widia Hanita	48HF12
7/8 in	1 1/2 in	4 in	7/8 in	30 °	OSG	30M170
1 in	1 1/2 in	4 in	1 in	30 °	Widia Hanita	48HF20
1 in	3 in	6 in	1 in	30 °	OSG	2TYC9
1 in	4 in	7 in	1 in	30 °	Widia Hanita	48HF26
1 in	4 in	7 in	1 in	30 °	Widia Hanita	48HF33
TiN Coated Finish						
2 Flutes						
18.00mm	38.00mm	102.00mm	18.00mm	30 °	Monster	45XG33
4 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Monster	45XJ96
9/16 in	1 1/4 in	3 1/2 in	9/16 in	30 °	Monster	45XK36
5/8 in	1 1/4 in	3 1/2 in	5/8 in	30 °	Monster	45XK38
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	45XK42
3/4 in	2 1/4 in	5 in	3/4 in	30 °	Monster	45XN91
7/8 in	1 1/2 in	4 in	7/8 in	30 °	Monster	45XK44
14.00mm	32.00mm	90.00mm	14.00mm	30 °	Monster	45XK80

General Purpose Roughing/Finishing Carbide Square End Mills

AlTin Finish
6 Flute
No. 48JN52



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Finish						
2 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Micro 100	14F981
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	14G012
4.00mm	25.00mm	75.0mm	4.000mm	30 °	Micro 100	14T199
6.00mm	25.00mm	75.0mm	6.000mm	30 °	Micro 100	14T212
8.00mm	14.00mm	100.0mm	8.000mm	30 °	Micro 100	14T335
10.00mm	25.00mm	72.0mm	10.000mm	30 °	Micro 100	16E727
12.00mm	22.00mm	83.0mm	12.000mm	30 °	Micro 100	14G096
12.00mm	30.00mm	83.0mm	12.000mm	30 °	Micro 100	16E739
16.00mm	26.00mm	92.0mm	16.000mm	30 °	Micro 100	14G109
3 Flutes						
3/8 in	7/8 in	2 1/2 in	3/8 in	30 °	Micro 100	14G002
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	14G014
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	16G297
1.00mm	3.00mm	50.00mm	4.00mm	45 °	Widia Hanita	48KP55
1.50mm	3.00mm	50.00mm	4.00mm	45 °	Widia Hanita	48KP56
2.00mm	3.00mm	50.00mm	4.00mm	45 °	Widia Hanita	48KP57
3.00mm	8.00mm	50.00mm	6.00mm	45 °	Widia Hanita	48KP60
4.50mm	11.00mm	57.0mm	6.000mm	30 °	Micro 100	16E686
4.00mm	12.00mm	50.00mm	6.00mm	45 °	Widia Hanita	48KP62
4.50mm	14.00mm	50.00mm	6.00mm	45 °	Widia Hanita	48KP63
5.00mm	14.00mm	50.00mm	6.00mm	45 °	Widia Hanita	48KP64
6.00mm	16.00mm	50.00mm	6.00mm	45 °	Widia Hanita	48KP65
7.000mm	22.00mm	63.0mm	8.000mm	30 °	Micro 100	16E711
8.00mm	30.00mm	75.0mm	8.000mm	30 °	Micro 100	14T220
10.00mm	38.00mm	100.0mm	10.000mm	30 °	Micro 100	14T226
12.00mm	25.00mm	76.00mm	12.00mm	45 °	Widia Hanita	48KP67
14.00mm	22.00mm	83.0mm	14.000mm	30 °	Micro 100	14G105
16.00mm	32.00mm	89.00mm	16.00mm	45 °	Widia Hanita	48KP68
20.00mm	38.00mm	104.00mm	20.00mm	45 °	Widia Hanita	48KP70
4 Flutes						
1/4 in	3/8 in	3 in	1/4 in	50 °	Widia Hanita	48JN35
1/4 in	1/2 in	2 in	1/4 in	30 °	Monster	19LM92
1/4 in	1/2 in	4 in	1/4 in	30 °	Micro 100	14G171
1/4 in	5/8 in	3 in	1/4 in	50 °	Widia Hanita	48JN42
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Micro 100	14F985
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Micro 100	14T167
3/8 in	9/16 in	4 in	3/8 in	50 °	Widia Hanita	48JN37
3/8 in	5/8 in	2 in	3/8 in	30 °	Micro 100	14M476
3/8 in	7/8 in	2 1/2 in	3/8 in	30 °	Micro 100	14G004
1/2 in	5/8 in	2 1/2 in	1/2 in	30 °	Micro 100	14M521
1/2 in	3/4 in	5 in	1/2 in	50 °	Widia Hanita	48JN38
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	14G016
1/2 in	1 in	6 in	1/2 in	30 °	Micro 100	14G187
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Micro 100	14G040
4.00mm	8.00mm	75.0mm	6.000mm	30 °	Micro 100	14T325
4.50mm	11.00mm	57.0mm	6.000mm	30 °	Micro 100	16E688
4.00mm	18.00mm	50.0mm	4.000mm	30 °	Micro 100	16G342
5.50mm	16.00mm	57.0mm	6.000mm	30 °	Micro 100	16E701
6.00mm	12.00mm	100.0mm	6.000mm	30 °	Micro 100	14T333
6.00mm	18.00mm	57.0mm	6.000mm	30 °	Micro 100	16G354
6.00mm	25.00mm	75.0mm	6.000mm	30 °	Micro 100	14T216
8.00mm	14.00mm	100.0mm	8.000mm	30 °	Micro 100	14T337
12.00mm	30.00mm	83.0mm	12.000mm	30 °	Micro 100	16E743
14.00mm	35.00mm	83.0mm	14.000mm	30 °	Micro 100	16E749
25.00mm	50.00mm	127.0mm	25.000mm	30 °	Micro 100	16E773
5 Flutes						
3/8 in	15/16 in	4 in	3/8 in	50 °	Widia Hanita	48JN44
3/8 in	1 5/16 in	4 in	3/8 in	50 °	Widia Hanita	48JN51
4.00mm	15.00mm	57.0mm	6.000mm	45 °	Micro 100	16F152
6.00mm	20.00mm	57.0mm	6.000mm	45 °	Micro 100	16F162
8.00mm	25.00mm	63.0mm	8.000mm	45 °	Micro 100	16F168
16.00mm	35.00mm	92.0mm	16.000mm	45 °	Micro 100	16F192
20.00mm	45.00mm	104.0mm	20.000mm	45 °	Micro 100	16F205
6 Flutes						
1/2 in	1 1/4 in	5 in	1/2 in	50 °	Widia Hanita	48JN45
1/2 in	1 3/4 in	5 in	1/2 in	50 °	Widia Hanita	48JN52
5/8 in	1 9/16 in	5 in	5/8 in	50 °	Widia Hanita	48JN46
5/8 in	2 3/16 in	5 in	5/8 in	50 °	Widia Hanita	48JN53
3/4 in	1 7/8 in	6 in	3/4 in	50 °	Widia Hanita	48JN47
3/4 in	2 5/8 in	6 in	3/4 in	50 °	Widia Hanita	48JN54
1 in	3 1/2 in	6 in	1 in	50 °	Widia Hanita	48JN55

CONTINUED

CONTINUED

General Purpose Roughing/Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	OSG	**35CR03**
1/8 in	1 in	3 in	1/8 in	30 °	OSG	**35CT25**
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Micro 100	**14F980**
1/4 in	1 1/8 in	3 in	1/4 in	30 °	OSG	**35CR91**
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Micro 100	**14T164**
1/4 in	1 1/2 in	4 in	1/4 in	30 °	OSG	**35CT28**
1/4 in	1 in	4 in	1/4 in	30 °	OSG	**35CT29**
3/8 in	3/4 in	4 in	3/8 in	30 °	Micro 100	**14G176**
3/8 in	7/8 in	2 1/2 in	3/8 in	30 °	Micro 100	**14F998**
3/8 in	1 1/8 in	3 in	3/8 in	30 °	OSG	**35CR93**
1/2 in	5/8 in	2 1/2 in	1/2 in	30 °	Micro 100	**14M516**
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	**14G011**
1/2 in	1 in	4 in	1/2 in	30 °	OSG	**35CR96**
1/2 in	2 in	4 in	1/2 in	30 °	OSG	**35CR95**
1/2 in	3 in	6 in	1/2 in	30 °	Micro 100	**14T180**
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Micro 100	**14G035**
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Micro 100	**16G319**
3/4 in	2 1/4 in	5 in	3/4 in	30 °	OSG	**35CR98**
3/4 in	3 in	6 in	3/4 in	30 °	OSG	**35CT36**
1 in	1 1/2 in	4 in	1 in	30 °	OSG	**35CR02**
3.50mm	7.00mm	51.00mm	4.00mm	30 °	OSG	**35CR61**
3.50mm	7.00mm	51.00mm	4.00mm	30 °	OSG	**35CR77**
3.50mm	10.00mm	57.0mm	6.000mm	30 °	Micro 100	**16E671**
4.00mm	8.00mm	50.0mm	4.000mm	30 °	Micro 100	**14G065**
4.50mm	9.00mm	51.00mm	5.00mm	30 °	OSG	**35CR63**
4.00mm	19.00mm	57.00mm	4.00mm	30 °	OSG	**35CT02**
4.00mm	28.00mm	76.00mm	4.00mm	30 °	OSG	**35CT49**
5.00mm	10.00mm	57.0mm	6.000mm	30 °	Micro 100	**14G071**
5.00mm	10.00mm	100.0mm	6.000mm	30 °	Micro 100	**14T326**
5.00mm	16.00mm	57.0mm	6.000mm	30 °	Micro 100	**16E689**
5.00mm	20.00mm	57.0mm	6.000mm	45 °	Micro 100	**16F153**
5.00mm	25.00mm	64.00mm	5.00mm	30 °	OSG	**35CT03**
6.00mm	10.00mm	57.0mm	6.000mm	30 °	Micro 100	**14G077**
6.00mm	12.00mm	100.0mm	6.000mm	30 °	Micro 100	**14T330**
6.00mm	16.00mm	57.0mm	6.000mm	30 °	Micro 100	**16E702**
6.00mm	20.00mm	57.0mm	6.000mm	45 °	Micro 100	**16F157**
6.00mm	28.00mm	76.00mm	6.00mm	30 °	OSG	**35CT04**
6.00mm	38.00mm	102.00mm	6.00mm	30 °	OSG	**35CT51**
7.00mm	12.00mm	51.00mm	8.00mm	30 °	OSG	**35CR66**
8.00mm	12.00mm	51.00mm	8.00mm	30 °	OSG	**35CR67**
8.00mm	14.00mm	100.0mm	8.000mm	30 °	Micro 100	**14T334**
8.00mm	16.00mm	63.0mm	8.000mm	30 °	Micro 100	**14G083**
8.00mm	25.00mm	63.0mm	8.000mm	45 °	Micro 100	**16F163**
8.00mm	29.00mm	76.00mm	8.00mm	30 °	OSG	**35CT05**
8.00mm	42.00mm	102.00mm	8.00mm	30 °	OSG	**35CT52**
9.00mm	14.00mm	51.00mm	10.00mm	30 °	OSG	**35CR68**
10.00mm	14.00mm	51.00mm	10.00mm	30 °	OSG	**35CR69**
10.00mm	14.00mm	51.00mm	10.00mm	30 °	OSG	**35CR85**
10.00mm	18.00mm	120.0mm	10.000mm	30 °	Micro 100	**14T338**
10.00mm	19.00mm	72.0mm	10.000mm	30 °	Micro 100	**14G089**
11.00mm	16.00mm	64.00mm	11.00mm	30 °	OSG	**35CR86**
12.00mm	16.00mm	64.00mm	12.00mm	30 °	OSG	**35CR71**
12.00mm	22.00mm	83.0mm	12.000mm	30 °	Micro 100	**14G095**
12.00mm	22.00mm	130.0mm	12.000mm	30 °	Micro 100	**14T342**
12.00mm	30.00mm	83.0mm	12.000mm	30 °	Micro 100	**16E738**
12.00mm	30.00mm	83.0mm	12.000mm	45 °	Micro 100	**16F175**
14.00mm	57.00mm	127.00mm	14.00mm	30 °	OSG	**35CT08**
16.00mm	57.00mm	127.00mm	16.00mm	30 °	OSG	**35CT09**
18.00mm	57.00mm	127.00mm	18.00mm	30 °	OSG	**35CT10**
18.00mm	76.00mm	153.00mm	18.00mm	30 °	OSG	**35CT57**
20.00mm	57.00mm	127.00mm	20.00mm	30 °	OSG	**35CT11**
20.00mm	76.00mm	153.00mm	20.00mm	30 °	OSG	**35CT58**
25.00mm	57.00mm	127.00mm	25.00mm	30 °	OSG	**35CT12**
25.00mm	76.00mm	153.00mm	25.00mm	30 °	OSG	**35CT59**

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
4 Flutes						
1/8 in	1/2 in	1 1/2"	1/8 in	30 °	Monster	**19LP60**
1/8 in	1 in	3 in	1/8 in	30 °	Monster	**19LT63**
1/8 in	1 in	3 in	1/8 in	30 °	SGS Tool	**41CE16**
1/8 in	3 in	2 1/4"	1/8 in	30 °	Monster	**19LR98**
1/8 in	3 in	3 1/16"	3/8 in	30 °	OSG	**35CZ48**
1/4 in	1/2 in	2 in	1/4 in	30 °	Monster	**19LM91**
1/4 in	1 in	4 in	1/4 in	30 °	Monster	**19LT71**
1/4 in	1 1/2 in	6 in	1/4 in	30 °	Monster	**19LT74**
1/4 in	3 in	2 1/2"	1/4 in	30 °	Micro 100	**16F496**
1/4 in	3 in	2 1/2"	1/4 in	30 °	Monster	**19LP77**
1/4 in	3 in	3 3/8"	3/8 in	30 °	OSG	**35CZ52**
3/8 in	7/8 in	2 1/2"	3/8 in	30 °	Micro 100	**16F515**
3/8 in	1 in	2 1/2"	3/8 in	30 °	Monster	**19LP88**
3/8 in	1 1/8 in	3 in	3/8 in	30 °	Monster	**19LT09**
3/8 in	1 1/8 in	3 in	3/8 in	30 °	OSG	**35CY10**
3/8 in	1 3/4 in	4 in	3/8 in	30 °	OSG	**35CY37**
3/8 in	1 1/2 in	6 in	3/8 in	30 °	Monster	**19LT82**
3/8 in	3 in	2 in	3/8 in	30 °	OSG	**35CX40**
3/8 in	3 in	3 1/2"	3/8 in	30 °	OSG	**35CZ56**
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	**16F527**
1/2 in	1 in	3 in	1/2 in	30 °	Monster	**19LP96**
1/2 in	1 in	4 in	1/2 in	30 °	OSG	**35CZ58**
1/2 in	1 1/2 in	6 in	1/2 in	30 °	Monster	**19LT86**
1/2 in	1 in	6 in	1/2 in	30 °	Micro 100	**16F688**
1/2 in	3 in	2 1/2"	1/2 in	30 °	Monster	**19LN01**
1/2 in	3 in	6 in	1/2 in	30 °	Monster	**19LT87**
1/2 in	3 in	6 in	1/2 in	30 °	SGS Tool	**41AW60**
5/8 in	1 1/4 in	3 1/2"	5/8 in	30 °	Micro 100	**16F539**
5/8 in	1 1/2 in	6 in	5/8 in	30 °	Monster	**19LT92**
5/8 in	3 in	6 in	5/8 in	30 °	Monster	**19LT90**
5/8 in	3 in	6 in	5/8 in	30 °	OSG	**35CY40**
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	**19LR10**
3/4 in	1 1/2 in	6 in	3/4 in	30 °	Monster	**19LT97**
3/4 in	2 1/4 in	5 in	3/4 in	30 °	Monster	**19LT20**
3/4 in	2 1/4 in	5 in	3/4 in	30 °	OSG	**35CY19**
3/4 in	3 in	6 in	3/4 in	30 °	OSG	**35CY41**
3/4 in	3 in	7 in	3/4 in	30 °	Monster	**19LT95**
1 in	1 1/2 in	4 in	1 in	30 °	Monster	**19LR13**
1 in	1 1/2 in	6 in	1 in	30 °	Monster	**19LU04**
1 in	2 1/4 in	5 in	1 in	30 °	Monster	**19LT22**
1 in	3 in	6 in	1 in	30 °	OSG	**35CY32**
1 in	3 in	7 in	1 in	30 °	Monster	**19LU01**
3.50mm	7.00mm	51.00mm	4.00mm	30 °	OSG	**35CX66**
3.50mm	12.00mm	51.00mm	4.00mm	30 °	Monster	**19LR30**
4.00mm	8.00mm	51.00mm	4.00mm	30 °	OSG	**35CX67**
4.00mm	8.00mm	75.00mm	6.00mm	30 °	Micro 100	**16F715**
4.00mm	14.00mm	51.00mm	4.00mm	30 °	Monster	**19LR32**
4.50mm	16.00mm	51.00mm	5.00mm	30 °	Monster	**19LR34**
4.00mm	18.00mm	50.00mm	4.00mm	30 °	Micro 100	**16F569**
4.00mm	28.00mm	76.00mm	4.00mm	30 °	OSG	**35CY55**
5.00mm	3 in	76.00mm	5.00mm	30 °	OSG	**35CY56**
5.00mm	16.00mm	51.00mm	5.00mm	30 °	Monster	**19LR36**
5.00mm	25.00mm	64.00mm	5.00mm	30 °	OSG	**35CY05**
6.00mm	12.00mm	51.00mm	6.00mm	30 °	OSG	**35CX70**
6.00mm	12.00mm	100.00mm	6.00mm	30 °	Micro 100	**16F727**
6.00mm	18.00mm	57.00mm	6.00mm	30 °	Micro 100	**16F581**
6.00mm	19.00mm	63.00mm	6.00mm	30 °	Monster	**19LR39**
7.00mm	19.00mm	63.00mm	8.00mm	30 °	Monster	**19LR41**
8.00mm	3 in	102.00mm	8.00mm	30 °	OSG	**35CY58**
8.00mm	12.00mm	51.00mm	8.00mm	30 °	OSG	**35CX72**
8.00mm	14.00mm	100.00mm	8.00mm	30 °	Micro 100	**16F733**
8.00mm	22.00mm	63.00mm	8.00mm	30 °	Micro 100	**16F587**
8.00mm	29.00mm	76.00mm	8.00mm	30 °	OSG	**35CY09**
9.00mm	22.00mm	63.00mm	10.00mm	30 °	Monster	**19LR46**
10.00mm	3 in	76.00mm	10.00mm	30 °	OSG	**35CY11**
10.00mm	3 in	102.00mm	10.00mm	30 °	OSG	**35CY59**
10.00mm	22.00mm	76.00mm	10.00mm	30 °	Monster	**19LR48**
11.00mm	25.00mm	76.00mm	12.00mm	30 °	Monster	**19LR50**
12.00mm	3 in	102.00mm	12.00mm	30 °	OSG	**35CY13**
14.00mm	3 in	90.00mm	14.00mm	30 °	Monster	**19LR54**
14.00mm	76.00mm	153.00mm	14.00mm	30 °	OSG	**35CY61**
16.00mm	3 in	102.00mm	16.00mm	30 °	Monster	**19LR56**
16.00mm	76.00mm	153.00mm	16.00mm	30 °	OSG	**35CY62**
18.00mm	3 in	102.00mm	18.00mm	30 °	Monster	**19LR58**
18.00mm	3 in	127.00mm	18.00mm	30 °	OSG	**35CY18**
20.00mm	3 in	102.00mm	20.00mm	30 °	Monster	**19LR60**
25.00mm	3 in	102.00mm	25.00mm	30 °	Monster	**19LR64**
8 Flutes						
3/8 in	1 in	2 1/2 in	3/8 in	15 °	OSG	**35CP72**
1/2 in	1 in	3 in	1/2 in	15 °	OSG	**35CP74**

OSG CLEVELAND WIDIA HANITA

Finishing Cobalt Square End Mills

TiCN Finish
2 Flutes
No. 2NFK6



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
¼ in	½ in	2 5⁄16 in	⅜ in	30 °	OSG	**2PND1**
¼ in	1 ¼ in	3 1⁄16 in	⅜ in	45 °	OSG	**35DG66**
⅜ in	9⁄16 in	2 ½ in	⅜ in	30 °	Cleveland	**4LE58**
⅜ in	9⁄16 in	2 5⁄16 in	⅜ in	30 °	OSG	**35DF58**
⅜ in	¾ in	3 5⁄16 in	⅜ in	30 °	OSG	**35DG44**
⅜ in	1 in	2 ¾ in	⅜ in	30 °	Cleveland	**438R88**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**438R89**
½ in	13⁄16 in	2 ½ in	⅜ in	30 °	OSG	**2PND5**
½ in	13⁄16 in	2 11⁄16 in	⅜ in	30 °	Cleveland	**438R90**
½ in	1 ½ in	3 ½ in	½ in	30 °	Cleveland	**438R91**
½ in	1 in	4 in	½ in	30 °	OSG	**35DG45**
⅝ in	1 ⅛ in	3 ⅛ in	½ in	30 °	OSG	**2PND8**
⅝ in	1 9⁄16 in	3 ¾ in	⅝ in	30 °	Cleveland	**2NFJ9**
⅝ in	1 ⅝ in	3 ¾ in	⅝ in	45 °	OSG	**35DG56**
⅝ in	1 ⅜ in	4 ⅝ in	⅝ in	30 °	OSG	**35DG46**
⅝ in	2 in	4 ⅛ in	⅝ in	30 °	OSG	**35DG29**
⅝ in	2 ½ in	4 ⅝ in	⅝ in	45 °	OSG	**35DG71**
¾ in	1 9⁄16 in	3 9⁄16 in	¾ in	30 °	OSG	**2TWP1**
¾ in	1 9⁄16 in	3 9⁄16 in	¾ in	30 °	OSG	**35DF71**
¾ in	1 ⅝ in	5 ⅜ in	¾ in	30 °	OSG	**35DG47**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	OSG	**35DG30**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	Cleveland	**438T18**
¾ in	3 in	5 ¼ in	¾ in	45 °	OSG	**35DG72**
1 in	1 ½ in	3 ¾ in	¾ in	30 °	OSG	**2TWP3**
1 in	1 ½ in	4 in	⅝ in	30 °	Cleveland	**438T21**
1 in	1 ⅛ in	4 ⅛ in	¾ in	45 °	OSG	**35DG59**
1 in	1 ⅜ in	4 ½ in	1 in	30 °	Cleveland	**4LE77**
1 in	2 in	4 ½ in	1 in	45 °	OSG	**35DG61**
1 in	2 ½ in	7 ¼ in	1 in	30 °	OSG	**35DG49**
1 in	4 in	6 ½ in	1 in	45 °	OSG	**35DG73**
1 ⅛ in	1 ⅝ in	3 ⅞ in	⅞ in	30 °	OSG	**35DF79**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	Cleveland	**438T25**
1 ¼ in	1 ⅝ in	4 ⅛ in	1 in	30 °	OSG	**2TWP6**
1 ¼ in	2 in	4 ½ in	1 ¼ in	45 °	OSG	**35DG62**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**35DG35**
1 ¼ in	3 in	7 ¼ in	1 ¼ in	30 °	OSG	**35DG50**
1 ½ in	1 ⅝ in	4 ⅛ in	1 ¼ in	30 °	OSG	**33PC66**
1 ½ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**35DG36**
1 ½ in	4 in	6 ½ in	1 ¼ in	45 °	OSG	**35DG75**
1¾ in	1 ⅝ in	4 ⅛ in	1 ¼ in	30 °	OSG	**35DF83**
1¾ in	2 in	4 ½ in	1 ¼ in	45 °	OSG	**35DG64**
1¾ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**35DG37**
2 in	1 ⅜ in	4 ⅛ in	1 ¼ in	30 °	OSG	**2TWP8**
2 in	3 in	6 ¾ in	2 in	30 °	OSG	**35DG39**
2 in	4 in	6 ½ in	1 ¼ in	45 °	OSG	**35DG76**
3.50mm	11.11mm	58.70mm	9.52mm	30 °	OSG	**35DG15**
4.00mm	11.11mm	58.70mm	9.52mm	30 °	OSG	**14X373**
4.50mm	11.11mm	58.70mm	9.52mm	30 °	OSG	**35DG16**
5.00mm	12.70mm	58.70mm	9.52mm	30 °	OSG	**14X374**
5.50mm	12.70mm	58.70mm	9.52mm	30 °	OSG	**35DG17**
6.00mm	12.70mm	58.70mm	9.52mm	30 °	OSG	**35DF90**
7.00mm	14.28mm	58.70mm	9.52mm	30 °	OSG	**35DF91**
8.00mm	14.28mm	58.70mm	9.52mm	30 °	OSG	**14X375**
8.50mm	14.28mm	58.70mm	9.52mm	30 °	OSG	**35DG20**
9.00mm	14.28mm	58.70mm	9.52mm	30 °	OSG	**35DF92**
9.50mm	14.28mm	58.70mm	9.52mm	30 °	OSG	**35DG21**
10.00mm	20.63mm	63.50mm	9.52mm	30 °	OSG	**14X376**
11.50mm	20.63mm	63.50mm	9.52mm	30 °	OSG	**35DG23**
12.00mm	25.40mm	76.20mm	12.70mm	30 °	OSG	**35DF94**
12.50mm	28.57mm	79.30mm	12.70mm	30 °	OSG	**35DG24**
13.00mm	28.57mm	79.30mm	12.70mm	30 °	OSG	**35DF95**
13.50mm	28.57mm	79.30mm	12.70mm	30 °	OSG	**35DG25**
14.50mm	28.57mm	79.30mm	12.70mm	30 °	OSG	**35DG26**
15.00mm	28.57mm	79.30mm	12.70mm	30 °	OSG	**35DF97**
16.00mm	33.33mm	87.30mm	15.87mm	30 °	OSG	**35DF98**
17.00mm	33.33mm	87.30mm	15.87mm	30 °	OSG	**35DF99**
18.00mm	33.33mm	87.30mm	15.87mm	30 °	OSG	**35DG01**
19.00mm	33.33mm	90.40mm	19.05mm	30 °	OSG	**35DG02**
20.00mm	38.10mm	95.20mm	19.05mm	30 °	OSG	**35DG03**
21.00mm	38.10mm	95.20mm	19.05mm	30 °	OSG	**35DG04**
24.00mm	41.27mm	104.70mm	25.40mm	30 °	OSG	**35DG07**
25.00mm	41.27mm	104.70mm	25.40mm	30 °	OSG	**35DG08**
28.00mm	41.27mm	104.70mm	25.40mm	30 °	OSG	**35DG09**
32.00mm	41.27mm	104.70mm	31.75mm	30 °	OSG	**35DG10**
36.00mm	41.27mm	104.70mm	31.75mm	30 °	OSG	**35DG11**
45.00mm	41.27mm	104.70mm	31.75mm	30 °	OSG	**35DG13**
50.00mm	41.27mm	104.70mm	31.75mm	30 °	OSG	**35DG14**
4 Flutes						
¼ in	¼ in	2 1⁄16 in	⅜ in	30 °	OSG	**35DJ19**
¼ in	⅝ in	2 7⁄16 in	⅜ in	30 °	OSG	**2TWU5**
¼ in	⅝ in	2 7⁄16 in	⅜ in	30 °	Cleveland	**4LE67**
¼ in	1 ¼ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**31C099**
¼ in	1 ¾ in	3 9⁄16 in	⅜ in	30 °	OSG	**35DK61**
⅜ in	⅜ in	2 ⅛ in	⅜ in	30 °	OSG	**35DJ20**
⅜ in	¾ in	2 ½ in	⅜ in	30 °	OSG	**2TWU7**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**31C126**
⅜ in	2 ½ in	4 ¼ in	⅜ in	30 °	Cleveland	**31C129**
⅜ in	2 ½ in	4 ¼ in	⅜ in	30 °	OSG	**35DK63**
13⁄32 in	1 in	2 11⁄16 in	⅜ in	30 °	Cleveland	**31C134**
7⁄16 in	1 in	2 11⁄16 in	⅜ in	30 °	OSG	**2TWU8**
½ in	½ in	2 ½ in	½ in	30 °	OSG	**35DH95**
½ in	1 in	2 11⁄16 in	⅜ in	30 °	OSG	**35DJ98**
½ in	1 ¼ in	3 ¼ in	½ in	30 °	OSG	**2TWU9**
½ in	2 in	4 in	½ in	35 °	Widia Hanita	**48HH14**
½ in	3 in	5 in	½ in	30 °	Cleveland	**31C149**
11⁄16 in	1 ⅝ in	3 ¾ in	⅝ in	30 °	OSG	**2TWZ4**
¾ in	¾ in	3 in	¾ in	30 °	OSG	**35DJ06**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	OSG	**2TWX6**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	OSG	**35DJ50**
¾ in	3 in	5 ¼ in	¾ in	30 °	Cleveland	**31C157**
¾ in	3 in	5 ¼ in	¾ in	30 °	OSG	**35DJ35**
¾ in	4 in	6 ¼ in	¾ in	30 °	OSG	**35DJ68**
1 in	1 ⅞ in	4 ⅛ in	¾ in	30 °	OSG	**2TWX8**
1 in	2 in	4 ½ in	1 in	30 °	OSG	**2TWZ9**
1 in	4 in	6 ½ in	1 in	30 °	Cleveland	**31C164**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30 °	OSG	**2TXA3**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**35DJ55**
1 ¼ in	4 in	6 ½ in	1 ¼ in	30 °	Cleveland	**438N99**
1 ¼ in	6 in	8 ½ in	1 ¼ in	30 °	OSG	**35DJ78**
1 ½ in	8 in	11/2 in	1 ¼ in	30 °	Cleveland	**437Z23**
2 in	2 in	5 ¾ in	2 in	30 °	OSG	**35DK30**
2 in	4 in	7 ¾ in	2 in	30 °	OSG	**35DK54**
3.50mm	11.11mm	60.30mm	9.52mm	30 °	OSG	**35DH65**
4.00mm	11.11mm	60.30mm	9.52mm	30 °	OSG	**35DH38**
4.50mm	12.70mm	60.30mm	9.52mm	30 °	OSG	**35DH66**
5.00mm	14.28mm	61.90mm	9.52mm	30 °	OSG	**35DH39**
5.50mm	14.28mm	61.90mm	9.52mm	30 °	OSG	**35DH67**
6.00mm	15.87mm	61.90mm	9.52mm	30 °	OSG	**35DH40**
6.50mm	15.87mm	61.90mm	9.52mm	30 °	OSG	**35DH68**
7.00mm	17.46mm	63.50mm	9.52mm	30 °	OSG	**35DH41**
7.50mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH69**
8.00mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH42**
8.50mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH70**
9.00mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH43**
9.50mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH71**
10.00mm	19.05mm	63.50mm	9.52mm	30 °	OSG	**35DH44**
10.50mm	25.40mm	68.20mm	9.52mm	30 °	OSG	**35DH72**
11.00mm	25.40mm	68.20mm	9.52mm	30 °	OSG	**35DH45**
11.50mm	25.40mm	68.20mm	9.52mm	30 °	OSG	**35DH73**
12.00mm	31.75mm	82.50mm	12.70mm	30 °	OSG	**35DH46**
13.00mm	31.75mm	82.50mm	12.70mm	30 °	OSG	**35DH47**
13.50mm	34.92mm	85.70mm	12.70mm	30 °	OSG	**35DH75**
14.00mm	34.92mm	85.70mm	12.70mm	30 °	OSG	**35DH48**
15.00mm	34.92mm	85.70mm	12.70mm	30 °	OSG	**35DH49**
16.00mm	41.27mm	95.20mm	15.87mm	30 °	OSG	**35DH50**
17.00mm	41.27mm	95.20mm	15.87mm	30 °	OSG	**35DH51**
18.00mm	41.27mm	95.20mm	15.87mm	30 °	OSG	**35DH52**
19.00mm	41.27mm	98.40mm	19.05mm	30 °	OSG	**35DH53**
20.00mm	47.62mm	104.70mm	19.05mm	30 °	OSG	**35DH54**
21.00mm	47.62mm	104.70mm	19.05mm	30 °	OSG	**35DH55**
22.00mm	47.62mm	104.70mm	22.22mm	30 °	OSG	**35DH56**
25.00mm	50.80mm	114.30mm	25.40mm	30 °	OSG	**35DH59**
TiCN Finish						
2 Flutes						
¼ in	½ in	2 7⁄16 in	⅜ in	30 °	Cleveland	**2NFK6**
½ in	1 in	3 ¼ in	½ in	30 °	Cleveland	**2NFL1**
¾ in	1 9⁄16 in	3 ⅝ in	½ in	30 °	Cleveland	**438T16**
1 in	1 ½ in	4 ⅛ in	¾ in	30 °	Cleveland	**438T40**
1 in	1 ⅝ in	4 ½ in	1 in	30 °	Cleveland	**2NFL4**
1 in	2 ¼ in	4 ¾ in	1 in	30 °	Cleveland	**438T41**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	Cleveland	**438T43**
4 Flutes						
⅛ in	⅜ in	2 5⁄16 in	⅜ in	30 °	Cleveland	**2NFN7**
3⁄16 in	½ in	2 ⅜ in	⅜ in	30 °	Cleveland	**2NFN8**
¼ in	⅝ in	2 7⁄16 in	⅜ in	30 °	Cleveland	**2NFN9**
¼ in	1 ¼ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**31C102**
⅜ in	⅜ in	2 ⅛ in	⅜ in	30 °	OSG	**35DJ21**
⅜ in	¾ in	2 ½ in	⅜ in	30 °	Cleveland	**2NFP2**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**31C128**
½ in	½ in	2 ½ in	½ in	30 °	OSG	**35DH96**
½ in	1 ¼ in	3 ¼ in	½ in	30 °	Cleveland	**2NFP4**
½ in	2 in	4 in	½ in	30 °	Cleveland	**31C148**
¾ in	1 ⅜ in	3 ⅞ in	¾ in	30 °	Cleveland	**2NFP6**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	OSG	**35DJ51**
¾ in	4 in	6 ¼ in	¾ in	30 °	OSG	**35DJ69**
1 in	3 in	5 ½ in	1 in	30 °	OSG	**35DJ53**
1 in	4 in	6 ½ in	1 in	30 °	Cleveland	**437Z16**
1 in	6 in	8 ½ in	1 in	30 °	OSG	**35DJ75**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**2MZT5**
1 ½ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**2MZT7**
6 Flutes						
½ in	1 ¼ in	3 ¼ in	½ in	30 °	Cleveland	**2MZR8**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	Cleveland	**2MZT1**
¾ in	3 in	5 ¼ in	¾ in	30 °	Cleveland	**437Z15**
1 in	2 in	4 ½ in	1 in	30 °	Cleveland	**2MZT4**
1 in	3 in	5 ½ in	1 in	30 °	OSG	**35DJ54**
1 in	6 in	8 ½ in	1 in	30 °	Cleveland	**437Z48**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**2MZT6**
1 ¼ in	6 in	8 ½ in	1 ¼ in	30 °	Cleveland	**437Z50**
1 ½ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**2MZT8**
1 ½ in	8 in	11/2 in	1 ¼ in	30 °	Cleveland	**437Z52**
TiN Finish						
2 Flutes						
¼ in	½ in	2 7⁄16 in	⅜ in	30 °	Cleveland	**31C069**
⅜ in	9⁄16 in	2 ½ in	⅜ in	30 °	Cleveland	**31C077**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**438R99**
½ in	1 ½ in	3 ½ in	½ in	30 °	Cleveland	**438T02**
½ in	1 in	3 ¼ in	½ in	30 °	Cleveland	**31C083**
½ in	2 in	4 in	½ in	30 °	Cleveland	**438T03**
9⁄16 in	1 ⅛ in	3 ⅜ in	½ in	30 °	Cleveland	**438T04**
¾ in	1 9⁄16 in	3 ⅝ in	½ in	30 °	Cleveland	**438T06**
¾ in	1 ¾ in	4 in	¾ in	30 °	Cleveland	**438T26**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	Cleveland	**438T27**
⅞ in	1 ½ in	4 ⅛ in	¾ in	30 °	Cleveland	**438T29**
1 in	1 ½ in	4 ⅛ in	¾ in	30 °	Cleveland	**438T31**
1 in	1 ⅝ in	4 ½ in	1 in	30 °	Cleveland	**437Y58**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	Cleveland	**438T34**
4 Flutes						
⅛ in	⅜ in	2 5⁄16 in	⅜ in	30 °	OSG	**2MYE1**
⅛ in	⅜ in	2 5⁄16 in	⅜ in	30 °	OSG	**35DJ92**
¼ in	⅝ in	2 7⁄16 in	⅜ in	30 °	OSG	**2MYE3**

CONTINUED

CONTINUED

For more information on end mills, see page 2277.

See page 2280 for more information on square end mills.

Finishing Cobalt Square End Mills

CLEVELAND WIDIA HANITA

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
1/4 in	3/8 in	2 7/16 in	3/8 in	30 °	Cleveland	31C105
1/4 in	1 1/4 in	3 1/16 in	3/8 in	30 °	Cleveland	31C101
1/4 in	1 3/4 in	3 9/16 in	3/8 in	30 °	Cleveland	31C104
3/8 in	3/4 in	2 1/2 in	3/8 in	30 °	OSG	2TWY8
3/8 in	1 1/2 in	3 1/4 in	3/8 in	30 °	Cleveland	31C127
3/8 in	2 1/2 in	4 1/4 in	3/8 in	30 °	Cleveland	31C130
1/2 in	1 1/4 in	3 1/4 in	1/2 in	30 °	OSG	2TWZ1
1/2 in	1 1/4 in	3 1/4 in	1/2 in	30 °	OSG	35DJ99
1/2 in	2 in	4 in	1/2 in	30 °	Cleveland	31C147
1/2 in	2 in	4 in	1/2 in	30 °	Cleveland	437Z04
1/2 in	3 in	5 in	1/2 in	30 °	Cleveland	31C150
3/4 in	1 5/8 in	3 7/8 in	3/4 in	30 °	OSG	2TWZ6
3/4 in	3 in	5 1/4 in	3/4 in	30 °	Cleveland	31C159
3/4 in	4 in	6 1/4 in	3/4 in	30 °	Cleveland	437Z31
1 in	1 1/8 in	4 1/8 in	3/4 in	30 °	OSG	35DK17
1 in	2 in	4 1/2 in	1 in	30 °	OSG	2TXA1
1 in	6 in	8 1/2 in	1 in	30 °	Cleveland	437Z33
6 Flutes						
1/2 in	1 1/4 in	3 1/4 in	1/2 in	30 °	Cleveland	2MZV5
3/4 in	1 5/8 in	3 7/8 in	3/4 in	30 °	Cleveland	2MZW2
3/4 in	4 in	6 1/4 in	3/4 in	30 °	Cleveland	437Z32
1 in	2 in	4 1/2 in	1 in	30 °	Cleveland	2MZX1
1 1/2 in	2 in	4 1/2 in	1 1/4 in	30 °	Cleveland	2MZX9

CLEVELAND

Roughing Cobalt Square End Mills

TiAlN Finish
3 Flutes
No. 35DE24



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
4 Flutes						
3/16 in	1/2 in	2 3/8 in	3/8 in	30 °	OSG	35DE14
3/16 in	5 in	2 3/8 in	3/8 in	30 °	Cleveland	437V71
1/4 in	1/4 in	2 1/16 in	3/8 in	30 °	Cleveland	4YGZ8
1/4 in	3/8 in	2 1/16 in	3/8 in	30 °	OSG	35DE89
1/4 in	3/4 in	2 1/2 in	3/8 in	25 °	OSG	2PMY3
1/4 in	1 1/4 in	3 1/16 in	3/8 in	30 °	OSG	2PMV8
3/8 in	1 1/2 in	3 1/4 in	3/8 in	30 °	Cleveland	2NAK6
1/2 in	1 1/4 in	3 1/4 in	1/2 in	30 °	Cleveland	4YHA2
1/2 in	2 in	4 in	1/2 in	30 °	Cleveland	4YGY8
1/2 in	3 in	5 in	1/2 in	30 °	OSG	35DE27
1/2 in	3 in	5 in	1/2 in	30 °	Cleveland	437V79
5/8 in	2 1/2 in	4 5/8 in	5/8 in	25 °	OSG	2PMY1
5/8 in	2 in	4 1/8 in	5/8 in	30 °	OSG	35DE16
5/8 in	3 in	5 1/8 in	5/8 in	30 °	OSG	35DE08
3/4 in	1 5/8 in	3 7/8 in	3/4 in	25 °	OSG	2PMY2
3/4 in	2 1/2 in	4 1/2 in	3/4 in	30 °	OSG	35DE17
3/4 in	2 1/4 in	4 1/2 in	3/4 in	30 °	OSG	35DE09
3/4 in	3 in	5 1/4 in	5/8 in	30 °	OSG	35DE87
3/4 in	4 in	6 1/4 in	3/4 in	30 °	OSG	35DE11
1 in	2 in	4 1/4 in	3/4 in	25 °	OSG	35DF31
1 1/4 in	1 1/4 in	3 3/4 in	1 1/4 in	25 °	OSG	35DE41
5 Flutes						
1 in	1 in	3 1/2 in	1 in	30 °	Cleveland	437W21
1 in	2 in	4 1/2 in	3/4 in	30 °	OSG	2PMW5
1 in	2 in	4 1/2 in	1 in	30 °	Cleveland	437W28
1 in	3 in	5 1/4 in	1 in	30 °	OSG	35DE53
1 in	4 in	6 1/2 in	1 in	30 °	OSG	2PMT5
1 1/8 in	2 in	4 1/2 in	1 in	25 °	OSG	35DF35
1 1/8 in	2 in	4 1/2 in	1 in	30 °	OSG	35DE90
TiAlN Finish						
3 Flutes						
3/8 in	3/8 in	2 5/32 in	3/8 in	30 °	OSG	35DE24
1/2 in	1/2 in	2 1/2 in	1/2 in	30 °	OSG	2PMU4
3/4 in	3/4 in	2 7/8 in	3/4 in	30 °	OSG	2PMV2
4 Flutes						
3/8 in	3/4 in	2 1/2 in	3/8 in	30 °	Cleveland	2NAN6
3/8 in	7/8 in	2 5/8 in	3/8 in	30 °	OSG	2PMW3
3/8 in	2 in	4 in	1/2 in	30 °	Cleveland	437W12
5/8 in	5/8 in	2 3/4 in	5/8 in	30 °	Cleveland	437W06
5/8 in	1 5/8 in	3 3/4 in	5/8 in	30 °	Cleveland	437W07
6 Flutes						
1 1/4 in	2 in	4 1/2 in	1 1/4 in	30 °	Cleveland	437W01
1 1/4 in	3 in	5 1/2 in	1 1/4 in	30 °	OSG	2PMX6
1 1/4 in	3 in	5 1/2 in	1 1/4 in	30 °	Cleveland	2RGZ8
1 1/4 in	4 in	6 1/2 in	1 1/4 in	30 °	OSG	2MYN9
1 1/2 in	2 in	4 1/2 in	1 1/4 in	30 °	OSG	2MYP1
1 1/2 in	3 in	5 1/2 in	1 1/4 in	30 °	OSG	2MYP2
1 1/2 in	4 in	6 1/2 in	1 1/4 in	30 °	OSG	2MYP3
8 Flutes						
2 in	6 in	9 3/4 in	2 in	30 °	OSG	2MYP6

CLEVELAND

Cobalt Double-End Finishing Square End Mills

Bright (Uncoated) Finish
2 Flutes
No. 4LE96



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
1/4 in	1/2 in	3 1/8 in	3/8 in	30 °	OSG	2TWR4
1/2 in	13/16 in	4 1/8 in	1/2 in	30 °	Cleveland	4LE92
3/4 in	1 5/16 in	5 5/8 in	3/4 in	30 °	Cleveland	4LU22
3/4 in	1 5/16 in	5 in	3/4 in	30 °	OSG	2TWR9
7/8 in	1 9/16 in	6 1/8 in	7/8 in	30 °	Cleveland	2NFX7
1 in	1 3/8 in	5 7/8 in	1 in	30 °	OSG	2TWT1
3.50mm	11.11mm	79.30mm	9.52mm	30 °	OSG	35DM56
4.00mm	11.11mm	79.30mm	9.52mm	30 °	OSG	35DM30
4.50mm	11.11mm	79.30mm	9.52mm	30 °	OSG	35DM57
5.00mm	12.70mm	79.30mm	9.52mm	30 °	OSG	35DM31
6.00mm	12.70mm	79.30mm	9.52mm	30 °	OSG	35DM32
7.00mm	14.28mm	79.30mm	9.52mm	30 °	OSG	35DM33
8.00mm	14.28mm	79.30mm	9.52mm	30 °	OSG	35DM34
9.50mm	14.28mm	79.30mm	9.52mm	30 °	OSG	35DM62
10.00mm	20.63mm	95.20mm	12.70mm	30 °	OSG	35DM36
12.00mm	20.63mm	95.20mm	12.70mm	30 °	OSG	35DM38
13.00mm	28.57mm	114.30mm	15.87mm	30 °	OSG	35DM39
13.50mm	28.57mm	114.30mm	15.87mm	30 °	OSG	35DM66
14.50mm	28.57mm	114.30mm	15.87mm	30 °	OSG	35DM67
15.00mm	28.57mm	114.30mm	15.87mm	30 °	OSG	35DM41
16.00mm	33.33mm	127.00mm	19.05mm	30 °	OSG	35DM42
17.00mm	33.33mm	127.00mm	19.05mm	30 °	OSG	35DM43
23.00mm	41.27mm	149.20mm	25.40mm	30 °	OSG	35DM49
24.00mm	41.27mm	149.20mm	25.40mm	30 °	OSG	35DM50
25.00mm	41.27mm	149.20mm	25.40mm	30 °	OSG	35DM51
3 Flutes						
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	OSG	35DM68
1/4 in	5/8 in	3 3/8 in	3/8 in	30 °	OSG	35DM70
3/8 in	3/4 in	3 1/2 in	3/8 in	30 °	OSG	35DM72
4 Flutes						
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	Cleveland	4LE96
3/16 in	9/32 in	2 in	3/16 in	30 °	Cleveland	31C191
3/16 in	1/2 in	3 1/4 in	3/8 in	30 °	Cleveland	4LE98
1/4 in	5/8 in	3 3/8 in	3/8 in	30 °	Cleveland	4LU10
3/8 in	3/4 in	3 1/2 in	3/8 in	30 °	Cleveland	4LU14
1/2 in	1 in	4 1/8 in	1/2 in	30 °	OSG	2TXC4
3/4 in	1 5/8 in	5 5/8 in	3/4 in	30 °	OSG	2TXD5
1 in	1 7/8 in	6 3/8 in	1 in	30 °	Cleveland	4LU26
1 in	1 7/8 in	6 3/8 in	1 in	30 °	OSG	2MYA9
TiCN Finish						
2 Flutes						
1/8 in	3/16 in	2 in	3/16 in	30 °	Cleveland	438M53
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	Cleveland	2NFY1
5/32 in	7/16 in	3 1/8 in	3/8 in	30 °	Cleveland	2NFY2
3/16 in	7/16 in	3 1/4 in	3/8 in	30 °	Cleveland	2NFY3
1/4 in	1/2 in	3 3/8 in	3/8 in	30 °	Cleveland	2NFY5
5/16 in	9/16 in	3 1/2 in	3/8 in	30 °	Cleveland	2NFY7
11/32 in	9/16 in	3 1/2 in	3/8 in	30 °	Cleveland	2NFY8
3/8 in	9/16 in	3 1/2 in	3/8 in	30 °	Cleveland	2NFY9
1/2 in	13/16 in	4 1/8 in	1/2 in	30 °	Cleveland	2NFZ4
5/8 in	1 1/8 in	5 in	5/8 in	30 °	Cleveland	2NFZ5
3/4 in	1 5/16 in	5 5/8 in	3/4 in	30 °	Cleveland	2NFZ7
1 in	1 5/8 in	6 3/8 in	1 in	30 °	Cleveland	2NGA2
4 Flutes						
1/8 in	3/8 in	2 1/4 in	3/16 in	30 °	Cleveland	31C189
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	Cleveland	2NGD5
5/32 in	15/64 in	2 in	3/16 in	30 °	Cleveland	438M65
5/32 in	7/16 in	3 1/8 in	3/8 in	30 °	Cleveland	2NGD6
3/16 in	9/32 in	2 in	3/16 in	30 °	Cleveland	438M66
1/4 in	5/8 in	3 3/8 in	3/8 in	30 °	Cleveland	2NGD9
5/16 in	3/4 in	3 1/2 in	3/8 in	30 °	Cleveland	2NGE2
3/8 in	3/4 in	3 1/2 in	3/8 in	30 °	Cleveland	2NGE4
1/2 in	1 in	4 1/8 in	1/2 in	30 °	Cleveland	2NGE8
5/8 in	1 3/8 in	5 in	5/8 in	30 °	Cleveland	2NGE9
3/4 in	1 5/8 in	5 5/8 in	3/4 in	30 °	Cleveland	2NGF2
1 in	1 7/8 in	6 3/8 in	1 in	30 °	Cleveland	2NGF6
TiN Finish						
2 Flutes						
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	Cleveland	31C024
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	OSG	35DM01
1/4 in	1/2 in	3 3/8 in	3/8 in	30 °	Cleveland	31C028
3/8 in	9/16 in	3 1/2 in	3/8 in	30 °	Cleveland	31C030
1/2 in	13/16 in	3 3/4 in	1/2 in	30 °	OSG	35DM06
1/2 in	13/16 in	4 1/8 in	1/2 in	30 °	Cleveland	31C033
5/8 in	1 1/8 in	4 1/2 in	5/8 in	30 °	OSG	35DM07
5/8 in	1 1/8 in	5 in	5/8 in	30 °	Cleveland	31C034
5/8 in	1 1/8 in	5 in	5/8 in	30 °	Cleveland	437Z92
3/4 in	1 5/16 in	5 5/8 in	3/4 in	30 °	Cleveland	437Z94
3/4 in	1 5/16 in	5 in	3/4 in	30 °	OSG	35DM08
7/8 in	1 9/16 in	6 1/8 in	7/8 in	30 °	Cleveland	437Z96
1 in	1 3/8 in	6 3/8 in	1 in	30 °	Cleveland	437Z98
4 Flutes						
1/8 in	3/8 in	3 1/16 in	3/8 in	30 °	Cleveland	31C035
3/16 in	1/2 in	3 1/4 in	3/8 in	30 °	Cleveland	31C042
1/4 in	5/8 in	3 3/8 in	3/8 in	30 °	Cleveland	31C046
3/8 in	3/4 in	3 1/2 in	3/8 in	30 °	Cleveland	31C052
1/2 in	1 in	4 1/8 in	1/2 in	30 °	Cleveland	31C055
3/4 in	1 5/8 in	5 5/8 in	3/4 in	30 °	Cleveland	31C060

MICRO 100 super carbide tools

Miniature High-Performance Roughing/ Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Neck Dia.	Brand	Item No.
Bright (Uncoated) Finish							
2 Flutes							
0.0100 in	1/64 in	1 1/2 in	1/8 in	—	0.0100 in	Micro 100	**54FC50**
1/16 in	3/32 in	1 1/2 in	1/8 in	3/32 in	3/64 in	Micro 100	**54FD43**
1/16 in	3/32 in	1 1/2 in	1/8 in	1/4 in	3/64 in	Micro 100	**54FD45**
1/16 in	3/32 in	1 1/2 in	1/8 in	29/64 in	3/64 in	Micro 100	**54FD47**
1/16 in	3/32 in	2 in	1/8 in	17/64 in	3/64 in	Micro 100	**54FD49**
1/32 in	3/64 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FC90**
1/32 in	3/64 in	1 1/2 in	1/8 in	11/32 in	1/32 in	Micro 100	**54FC96**
1/32 in	3/64 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FC98**
1/32 in	3/64 in	1 1/2 in	1/8 in	7/16 in	1/32 in	Micro 100	**54FD05**
1/32 in	1/16 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FD07**
1/32 in	1/16 in	1 1/2 in	1/8 in	5/64 in	1/32 in	Micro 100	**54FD09**
1/64 in	1/64 in	1 1/2 in	1/8 in	—	1/64 in	Micro 100	**54FC62**
1/64 in	1/64 in	1 1/2 in	1/8 in	7/64 in	1/64 in	Micro 100	**54FC64**
1/64 in	1/64 in	1 1/2 in	1/8 in	7/32 in	1/64 in	Micro 100	**54FC66**
1/64 in	1/64 in	1 1/2 in	1/8 in	11/64 in	0.0140 in	Micro 100	**54FC60**
1/64 in	1/32 in	1 1/2 in	1/8 in	13/64 in	1/64 in	Micro 100	**54FC72**
1/64 in	1/32 in	1 1/2 in	1/8 in	9/64 in	1/64 in	Micro 100	**54FC78**
1/64 in	3/64 in	1 1/2 in	1/8 in	—	1/64 in	Micro 100	**54FC82**
1/64 in	3/64 in	1 1/2 in	1/8 in	3/64 in	1/64 in	Micro 100	**54FC84**
1/64 in	3/64 in	1 1/2 in	1/8 in	21/64 in	1/64 in	Micro 100	**54FC88**
3/64 in	1/16 in	1 1/2 in	1/8 in	—	3/64 in	Micro 100	**54FD23**
3/64 in	1/16 in	1 1/2 in	1/8 in	1/8 in	3/64 in	Micro 100	**54FD25**
3/64 in	5/64 in	1 1/2 in	1/8 in	—	3/64 in	Micro 100	**54FD31**
3/64 in	5/64 in	1 1/2 in	1/8 in	7/64 in	3/64 in	Micro 100	**54FD33**
3/64 in	5/64 in	1 1/2 in	1/8 in	1/4 in	3/64 in	Micro 100	**54FD35**
3/64 in	5/64 in	2 in	1/8 in	21/32 in	3/64 in	Micro 100	**54FD39**
Diamond Finish							
2 Flutes							
1.00mm	4.00mm	45.00mm	3.00mm	4.95mm	0.95mm	OSG	**35CD52**
2.00mm	10.00mm	45.00mm	3.00mm	11.95mm	1.95mm	OSG	**35CD53**
3.00mm	15.00mm	50.00mm	3.00mm	—		OSG	**35CD54**
4 Flutes							
0.50mm	2.00mm	40.00mm	3.00mm	8.00mm	0.48mm	OSG	**35CE09**
1.00mm	3.00mm	40.00mm	3.00mm	8.00mm	0.96mm	OSG	**35CE10**
1.50mm	5.00mm	45.00mm	3.00mm	8.00mm	1.43mm	OSG	**35CE11**
2.00mm	6.00mm	45.00mm	3.00mm	8.00mm	1.91mm	OSG	**35CE12**
3.00mm	12.00mm	45.00mm	3.00mm	—		OSG	**35CE13**
1/16 in	1/16 in	3 in	1/16 in	5/16 in	3/64 in	OSG	**35CD65**
3/32 in	3/32 in	3 in	3/32 in	15/32 in	5/64 in	OSG	**35CD66**



Bright (Uncoated) Finish
2 Flutes
No. 54FC50

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Neck Dia.	Brand	Item No.
nACRo Finish							
2 Flutes							
1/8 in	1/8 in	2 in	3/16 in	7/8 in	7/64 in	Micro 100	**54FD91**
1/8 in	1/8 in	2 in	3/16 in	5/8 in	7/64 in	Micro 100	**54FD99**
1/8 in	1/8 in	3 in	3/16 in	1 3/8 in	7/64 in	Micro 100	**54FD95**
1/16 in	7/64 in	1 1/2 in	1/8 in	—	1/16 in	Micro 100	**54FD51**
1/16 in	7/64 in	1 1/2 in	1/8 in	1/8 in	1/16 in	Micro 100	**54FD53**
1/16 in	7/64 in	1 1/2 in	1/8 in	9/32 in	1/16 in	Micro 100	**54FD55**
1/16 in	7/64 in	2 in	1/8 in	31/64 in	1/16 in	Micro 100	**54FD57**
1/16 in	7/64 in	2 in	1/8 in	25/32 in	1/16 in	Micro 100	**54FD59**
3/32 in	1/8 in	1 1/2 in	1/8 in	—	5/64 in	Micro 100	**54FD83**
3/32 in	1/8 in	1 1/2 in	1/8 in	3/8 in	5/64 in	Micro 100	**54FD87**
3/32 in	1/8 in	2 in	1/8 in	7/8 in	5/64 in	Micro 100	**54FD81**
3/32 in	1/8 in	2 in	1/8 in	5/8 in	5/64 in	Micro 100	**54FD89**
3/64 in	1/16 in	1 1/2 in	1/8 in	11/64 in	1/32 in	Micro 100	**54FD19**
5/64 in	7/64 in	1 1/2 in	1/8 in	—	1/16 in	Micro 100	**54FD61**
5/64 in	7/64 in	1 1/2 in	1/8 in	9/32 in	1/16 in	Micro 100	**54FD65**
5/64 in	7/64 in	2 in	1/8 in	17/32 in	1/16 in	Micro 100	**54FD67**
5/64 in	7/64 in	2 in	1/8 in	25/32 in	1/16 in	Micro 100	**54FD69**
5/64 in	1/8 in	1 1/2 in	1/8 in	1/8 in	5/64 in	Micro 100	**54FD73**
5/64 in	1/8 in	1 1/2 in	1/8 in	17/64 in	5/64 in	Micro 100	**54FD75**
5/64 in	1/8 in	1 1/2 in	1/8 in	—	55/64 in	Micro 100	**54FD71**
5/64 in	1/8 in	2 in	1/8 in	33/64 in	3/64 in	Micro 100	**54FD77**
5/64 in	1/8 in	2 in	1/8 in	49/64 in	5/64 in	Micro 100	**54FD79**
TiAlN Finish							
2 Flutes							
0.50mm	0.70mm	60.00mm	6.00mm	2.50mm	0.45mm	OSG	**35CJ89**
0.60mm	0.90mm	60.00mm	6.00mm	3.00mm	0.55mm	OSG	**35CJ90**
2.00mm	3.00mm	60.00mm	6.00mm	10.00mm	1.95mm	OSG	**35CK01**
2.50mm	3.70mm	60.00mm	6.00mm	12.50mm	2.40mm	OSG	**35CK03**
3/32 in	9/64 in	2 1/2 in	1/4 in	15/16 in	3/64 in	OSG	**35CK02**
4 Flutes							
3.00mm	4.50mm	70.00mm	6.00mm	15.00mm	2.85mm	OSG	**35CK25**

Miniature High-Performance Finishing Powdered-Metal Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	List No.	Item No.
TiN Finish					
2 Flutes					
3/64"	9/64"	1 7/8"	3/16"	673	**35DA61**
1/16"	3/16"	1 7/8"	3/16"	673	**35DA62**
5/64"	15/64"	1 7/8"	3/16"	673	**35DA63**
3/32"	9/32"	1 7/8"	3/16"	673	**35DA64**
7/64"	21/64"	1 7/8"	3/16"	673	**35DA65**
4 Flutes					
1/16"	3/32"	1 3/4"	3/16"	676	**35DA71**
1/16"	3/16"	1 7/8"	3/16"	677	**35DA76**
3/32"	9/64"	1 3/4"	3/16"	676	**35DA72**
3/32"	9/32"	1 7/8"	3/16"	677	**35DA77**



TiN Finish
2 Flutes
No. 35DA61

Ball End Mills

Ball end mills have a rounded nose and create a round-bottomed groove in milling tasks. Also known as ball-nose end mills, they are used to make round-bottomed slots and pockets or mill complex shapes without sharp corners.

General purpose end mills are intended for milling a wide variety of common materials.

High-performance end mills are used in production milling.

Roughing end mills remove large amounts of material from a workpiece more quickly than roughing/finishing and finishing end mills.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.





Bright (Uncoated) Finish
2 Flutes
No. 35CG32

High-Performance Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Finish						
2 Flutes						
3/8 in	3 in	4 in	3/8 in	30 °	SGS Tool	**41AW55**
3 Flutes						
1/4 in	3 in		1/4 in	30 °	Monster	**55HL33**
1/4 in	3 in	4 in	1/4 in	30 °	Kyocera	**412P40**
1/2 in	1 in	3 in	1/2 in	30 °	Monster	**55HL41**
3/4 in	1 1/2 in	4 in	3/4 in	30 °	Monster	**55HL45**
1 in	1 1/2 in	4 in	1 in	30 °	Monster	**55HL27**
4 Flutes						
3/16 in	3 in	2 in	3/16 in	30 °	Monster	**55HK90**
1/4 in	1 1/2 in	4 in	1 in	30 °	Monster	**55HK86**
3/8 in	1 in		3/8 in	30 °	Monster	**55HK96**
6 Flutes						
1/4 in	1/64 in		1/4 in	20 °	Widia Hanita	**287NW9**
3/8 in	1/64 in		3/8 in	20 °	Widia Hanita	**287NX0**
1/2 in	1/64 in	4 in	1/2 in	20 °	Widia Hanita	**48JN91**
1/2 in	1/64 in	4 in	1/2 in	20 °	Widia Hanita	**287NX1**
1/2 in	3 in	4 in	1/2 in	20 °	Widia Hanita	**48JN82**
5/8 in	1/32 in		5/8 in	20 °	Widia Hanita	**287NX2**
5/8 in	3 in		5/8 in	20 °	Widia Hanita	**48JN86**
3/4 in	1/32 in	5 in	3/4 in	20 °	Widia Hanita	**287NX3**
1 in	1/32 in		1 in	20 °	Widia Hanita	**287NX4**
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	3 in	1 1/2"	1/8 in	30 °	OSG	**35CG32**
1/8 in	3 in	2 1/2"	1/8 in	15 °	OSG	**35CY68**
3/16 in	9/32 in	4 in	3/16 in	15 °	OSG	**35CY70**
1/4 in	1/4 in		1/4 in	20 °	Micro 100	**54ET71**
1/4 in	1/4 in	3 in	1/4 in	20 °	Micro 100	**54ET65**
1/4 in	3 in	4 in	1/4 in	15 °	OSG	**35CY73**
3/8 in	9/16 in	4 in	3/8 in	15 °	OSG	**35CY76**
1/2 in	3 in	5 in	1/2 in	15 °	OSG	**35CY81**
5/8 in	15/16 in	6 in	5/8 in	15 °	OSG	**35CY84**
3/4 in	1 1/8 in	6 in	3/4 in	15 °	OSG	**35CY87**
1 in	1 1/2 in	6 in	1 in	15 °	OSG	**35CY66**
4.00mm	6.00mm	63.00mm	4.00mm	15 °	OSG	**35CY69**
5.00mm	7.50mm	63.00mm	5.00mm	15 °	OSG	**35CY71**
6.00mm	9.00mm	100.00mm	6.00mm	15 °	OSG	**35CY72**
8.00mm	12.00mm	100.00mm	8.00mm	15 °	OSG	**35CY75**
10.00mm	15.00mm	100.00mm	10.00mm	15 °	OSG	**35CY77**
11.00mm	16.50mm	127.00mm	11.00mm	15 °	OSG	**35CY78**
12.00mm	18.00mm	127.00mm	12.00mm	15 °	OSG	**35CY80**
14.00mm	21.00mm	127.00mm	14.00mm	15 °	OSG	**35CY82**
16.00mm	24.00mm	152.00mm	16.00mm	15 °	OSG	**35CY85**
18.00mm	27.00mm	152.00mm	18.00mm	15 °	OSG	**35CY86**
20.00mm	3 in	152.00mm	20.00mm	15 °	OSG	**35CY88**
3 Flutes						
3/16 in	9/16 in	2 in	3/16 in	30 °	OSG	**35CG33**
1 in	1 1/2 in	4 in	1 in	30 °	Monster	**55HL26**
4 Flutes						
1/8 in	1/2 in		1/8 in	30 °	Monster	**55HK87**
1/8 in	3 in	1 1/2"	1/8 in	38 °	Cleveland	**32ZX11**
3/16 in	3 in	2 in	3/16 in	30 °	Monster	**55HK89**
1/4 in	1 1/2 in	4 in	1 in	30 °	Monster	**55HK85**
1/4 in	3 in	2 1/2"	1/4 in	38 °	Cleveland	**32ZX13**
3/8 in	7/8 in	2 1/2"	3/8 in	38 °	Cleveland	**32ZX15**
3/8 in	1 in	2 1/2"	3/8 in	30 °	OSG	**33PA43**
1/2 in	1 1/4 in	3 in	1/2 in	30 °	OSG	**33PA44**
1/2 in	3 in	3"	1/2 in	38 °	Cleveland	**32ZX17**
5/8 in	1 5/8 in	3 1/2"	5/8 in	30 °	OSG	**35CG36**
5/8 in	1 1/4 in	3 1/2"	5/8 in	38 °	Cleveland	**32ZX19**
3/4 in	1 5/8 in	4 in	3/4 in	30 °	OSG	**33PA45**
3/4 in	1 1/2 in	4 in	3/4 in	38 °	Cleveland	**32ZX20**
1 in	2 in	5 in	1 in	30 °	OSG	**35CG37**
1 in	2 1/4 in	5 in	1 in	38 °	Cleveland	**32ZX21**
TiAlN Finish						
2 Flutes						
1/8 in	1/8 in	3 in	1/4 in	30 °	OSG	**35CL69**
1/8 in	7/32 in	3 in	1/4 in	30 °	OSG	**35CL11**
1/8 in	1/4 in	3 in	1/4 in	30 °	OSG	**35CK72**
3/16 in	9/32 in	3 1/2"	5/16 in	30 °	OSG	**35CL14**
3/16 in	3 in	3 in	1/4 in	30 °	OSG	**35CK77**
3/16 in	3 in	4 in	1/4 in	30 °	OSG	**35CL44**
3/8 in	19/32 in	4 in	1/2 in	30 °	OSG	**35CL21**
3/8 in	3 in	4 in	3/8 in	30 °	OSG	**35CK89**
1/2 in	1 in	4 in	1/2 in	30 °	OSG	**35CK93**
3.50mm	3 in	50.00mm	6.00mm	30 °	OSG	**35CL70**
3.50mm	3 in	70.00mm	6.00mm	30 °	OSG	**35CL42**
3.50mm	8.00mm	70.00mm	6.00mm	30 °	OSG	**35CK73**
4.00mm	3 in	50.00mm	6.00mm	30 °	OSG	**35CL71**
4.00mm	8.00mm	90.00mm	6.00mm	30 °	OSG	**35CL13**
4.50mm	10.00mm	80.00mm	6.00mm	30 °	OSG	**35CK76**
5.00mm	3 in	80.00mm	6.00mm	30 °	OSG	**35CL45**
5.00mm	10.00mm	110.00mm	8.00mm	30 °	OSG	**35CL16**
5.50mm	12.00mm	90.00mm	6.00mm	30 °	OSG	**35CK79**
6.00mm	6.00mm	50.00mm	6.00mm	30 °	OSG	**35CL74**
6.00mm	6.00mm	90.00mm	6.00mm	30 °	OSG	**35CL46**
6.00mm	12.00mm	90.00mm	8.00mm	30 °	OSG	**35CL17**
6.50mm	14.00mm	90.00mm	8.00mm	30 °	OSG	**35CK81**
7.00mm	14.00mm	90.00mm	8.00mm	30 °	OSG	**35CK82**
8.00mm	14.00mm	120.00mm	10.00mm	30 °	OSG	**35CL20**
8.50mm	18.00mm	100.00mm	10.00mm	30 °	OSG	**35CK86**
9.00mm	18.00mm	100.00mm	10.00mm	30 °	OSG	**35CK87**
9.50mm	18.00mm	100.00mm	10.00mm	30 °	OSG	**35CK88**
10.00mm	18.00mm	100.00mm	10.00mm	30 °	OSG	**35CK90**
10.00mm	18.00mm	130.00mm	12.00mm	30 °	OSG	**35CL23**
11.00mm	22.00mm	100.00mm	12.00mm	30 °	OSG	**35CK91**
12.00mm	22.00mm	110.00mm	12.00mm	30 °	OSG	**35CK92**
13.00mm	26.00mm	110.00mm	16.00mm	30 °	OSG	**35CK94**
14.00mm	26.00mm	110.00mm	16.00mm	30 °	OSG	**35CK95**
15.00mm	3 in	110.00mm	16.00mm	30 °	OSG	**35CK96**
16.00mm	3 in	140.00mm	16.00mm	30 °	OSG	**35CK97**
18.00mm	3 in	140.00mm	20.00mm	30 °	OSG	**35CK98**
20.00mm	3 in	160.00mm	20.00mm	30 °	OSG	**35CK99**
25.00mm	3 in	180.00mm	25.00mm	30 °	OSG	**35CL01**
4 Flutes						
1/8 in	1/2 in	2 in	1/8 in	38 °	Widia Hanita	**48HZ27**
3/16 in	7/16 in	2 in	3/16 in	38 °	Cleveland	**33GE67**
3/16 in	3 in	2 1/4"	3/16 in	35 °	OSG	**35CJ01**
1/4 in	3 in		1/4 in	38 °	Widia Hanita	**48HZ29**
5/16 in	3 in		5/16 in	38 °	Widia Hanita	**48HZ30**
3/8 in	1/2 in	4 in	3/8 in	38 °	Widia Hanita	**48JE15**
3/8 in	7/8 in	2 1/2"	3/8 in	35 °	OSG	**35CJ04**
1/2 in	1 1/4 in	3 in	1/2 in	35 °	OSG	**35CJ07**
1/2 in	1 in	3 in	1/2 in	35 °	OSG	**35CJ06**
1/2 in	3 in	3"	1/2 in	38 °	Cleveland	**33GE72**
1/2 in	3 in	5 in	1/2 in	38 °	Widia Hanita	**48JE16**
5/8 in	1 1/4 in	3 1/2"	5/8 in	38 °	Cleveland	**33GE74**
5/8 in	3 in	6 in	5/8 in	38 °	Widia Hanita	**48JE17**
3/4 in	1 1/2 in	4 in	3/4 in	35 °	OSG	**35CJ09**
3/4 in	1 in	6 in	3/4 in	38 °	Widia Hanita	**48JE18**
1 in	1 1/2 in	4 in	1 in	35 °	OSG	**35CH97**
1 in	1 1/8 in	6 in	1 in	38 °	Widia Hanita	**48JE19**
1 1/4 in	2 1/4 in	5 in	1 1/4 in	35 °	OSG	**35CH98**
1 in	2 1/4 in	5 in	1 in	38 °	Cleveland	**33GE76**



Bright (Uncoated)
2 Flutes
No. 36NW20

General Purpose Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated)						
2 Flutes						
1/8 in	1/4 in	1 1/2"	1/8 in	35 °	Cleveland	**33FX59**
1/8 in	1/2 in	1 1/2"	1/8 in	35 °	Cleveland	**33FX60**
1/8 in	3 in	2 1/4"	1/8 in	30 °	Gorilla Mill	**36NU22**
1/8 in	3 in	2 1/4"	1/8 in	35 °	Cleveland	**33FX61**
1/8 in	3 in	3 in	1/8 in	30 °	Gorilla Mill	**36NU30**
5/32 in	1/2 in	2 in	3/16 in	30 °	Gorilla Mill	**36PC17**
5/32 in	3/16 in	2 in	3/16 in	35 °	Cleveland	**33FX64**
3/16 in	1 1/8 in	3 in	3/16 in	35 °	Cleveland	**33FX69**
3/16 in	1 1/8 in	4 in	3/16 in	30 °	Gorilla Mill	**36NW20**
3/16 in	3 in	2 in	3/16 in	35 °	Cleveland	**33FX66**
3/16 in	3 in	2 in	3/16 in	35 °	Cleveland	**33FX67**
3/16 in	3 in	2 1/2"	3/16 in	35 °	Cleveland	**33FX68**
13/64 in	3 in	2 1/2"	1/4 in	35 °	Cleveland	**33FX70**
1/4 in	3/16 in	3 in	1/4 in	30 °	Micro 100	**14K673**
1/4 in	1/2 in	2 in	1/4 in	35 °	Cleveland	**33FX73**
1/4 in	1 1/4 in	2 1/2"	1/4 in	40 °	Onsrud	**4XYY8**
1/4 in	1 1/8 in	3 in	1/4 in	35 °	Cleveland	**33FX75**
1/4 in	1 1/2 in	4 in	1/4 in	30 °	Gorilla Mill	**36NR72**
1/4 in	1 1/2 in	4 in	1/4 in	35 °	Cleveland	**33FX76**
1/4 in	3 in	2 in	1/4 in	40 °	Onsrud	**4XYW6**
1/4 in	3 in	2 in	1/4 in	40 °	Onsrud	**4XYU3**
1/4 in	3 in	2 1/2"	1/4 in	30 °	OSG	**2TXN6**
1/4 in	3 in	2 1/2"	1/4 in	35 °	Cleveland	**33FX74**
5/16 in	1/2 in	2 in	5/16 in	35 °	Cleveland	**33FX80**
5/16 in	13/16 in	2 1/2"	5/16 in	30 °	OSG	**30L874**
5/16 in	7/8 in	2 1/2"	5/16 in	35 °	Cleveland	**33FX81**
5/16 in	1 1/8 in	3 in	5/16 in	35 °	Cleveland	**33FX82**
5/16 in	1 5/8 in	4 in	5/16 in	30 °	Gorilla Mill	**36PA40**
3/8 in	1/2 in	2 1/2"	3/8 in	40 °	Onsrud	**4XYU7**
3/8 in	1/2 in	4 in	3/8 in	40 °	Onsrud	**4XZK1**
3/8 in	1/2 in	5 in	3/8 in	40 °	Onsrud	**4XZR5**
3/8 in	7/8 in	2 1/2"	3/8 in	30 °	Gorilla Mill	**36NY98**
3/8 in	1 in	2 1/2"	3/8 in	30 °	OSG	**2TXP1**
3/8 in	1 1/8 in	3 in	3/8 in	35 °	Cleveland	**33FX86**
3/8 in	1 3/4 in	4 in	3/8 in	35 °	Cleveland	**33FX87**
3/8 in	1 1/2 in	4 in	3/8 in	40 °	Onsrud	**4XYZ2**
3/8 in	2 in	4 in	3/8 in	30 °	Gorilla Mill	**36NZ23**
3/8 in	3 in	2 in	3/8 in	35 °	Cleveland	**33FX84**
3/8 in	3 in	6 in	3/8 in	30 °	Gorilla Mill	**36NZ19**
13/32 in	1 in	2 3/4"	7/16 in	30 °	OSG	**30L905**
29/64 in	1 in	3 in	1/2 in	30 °	OSG	**30L919**
1/2 in	3/8 in	4 in	1/2 in	30 °	Micro 100	**14K691**
1/2 in	1 in	3 in	1/2 in	30 °	OSG	**2TXP5**
1/2 in	1 1/2 in	4 in	1/2 in	30 °	Gorilla Mill	**36NN90**
1/2 in	1 in	4 in	1/2 in	30 °	Gorilla Mill	**36NP07**
1/2 in	1 in	6 in	1/2 in	30 °	Gorilla Mill	**36NN98**
1/2 in	2 in	4 in	1/2 in	35 °	Cleveland	**33FX95**
1/2 in	3 in	2 1/2"	1/2 in	35 °	Cleveland	**33FX93**
1/2 in	3 in	3 in	1/2 in	40 °	Onsrud	**4XYV1**
1/2 in	3 in	4 in	1/2 in	40 °	Onsrud	**4XZK4**
33/64 in	1 1/8 in	3 1/2"	9/16 in	30 °	Gorilla Mill	**36NX33**
5/8 in	1 1/4 in	3 1/2"	5/8 in	30 °	OSG	**30L938**

CONTINUED

CONTINUED

Additional End Mill sizes, materials, and coatings are available on Grainger.com®.

General Purpose Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) (Cont.)						
2 Flutes (Cont.)						
⅝ in	1 ¼ in	3½"	⅝ in	35 °	Cleveland	**33FY01**
⅝ in	1 ⅝ in	4 in	⅝ in	40 °	Onsrud	**4XYX6**
⅝ in	2 ¼ in	5 in	⅝ in	40 °	Onsrud	**4XYZ8**
⅝ in	2 in	6 in	⅝ in	30 °	Gorilla Mill	**36PC61**
⅝ in	3 in	6 in	⅝ in	40 °	Onsrud	**4XZT2**
¾ in	1 in	3 in	¾ in	40 °	Onsrud	**4XYV8**
¾ in	1 ½ in	4 in	¾ in	30 °	Gorilla Mill	**36NX49**
¾ in	1 ⅝ in	4 in	¾ in	40 °	Onsrud	**4XYY1**
¾ in	2 ¼ in	5 in	¾ in	35 °	Cleveland	**33FY06**
¾ in	2 ½ in	5 in	¾ in	40 °	Onsrud	**4XZA3**
¾ in	2 in	6 in	¾ in	30 °	Gorilla Mill	**36NX57**
¾ in	3 in	5 in	¾ in	40 °	Onsrud	**4XZP4**
¾ in	3 in	6 in	¾ in	35 °	Cleveland	**33FY07**
1 in	1 ¼ in	7 in	1 in	40 °	Onsrud	**4XZU1**
1 in	2 ¼ in	5 in	1 in	35 °	Cleveland	**33FY12**
1 in	2 ½ in	5 in	1 in	40 °	Onsrud	**4XYY5**
1 in	2 in	6 in	1 in	30 °	Gorilla Mill	**36NM21**
1 in	3 in	6 in	1 in	35 °	Cleveland	**33FY13**
1 in	3 in	6 in	1 in	40 °	Onsrud	**4XZA7**
1 in	3 in	7 in	1 in	30 °	Gorilla Mill	**36NM13**
3.50mm	12.00mm	51.00mm	4.00mm	30 °	OSG	**30L821**
4.00mm	2.70mm	100.00mm	6.00mm	30 °	Micro 100	**14K744**
4.00mm	3 in	57.00mm	6.00mm	30 °	Micro 100	**14M588**
4.00mm	14.00mm	51.00mm	4.00mm	30 °	OSG	**30L829**
4.50mm	14.00mm	51.00mm	5.00mm	30 °	OSG	**30L837**
6.00mm	3 in	75.00mm	6.00mm	30 °	Micro 100	**14K758**
6.00mm	3 in	100.00mm	6.00mm	30 °	Micro 100	**14K762**
6.00mm	19.00mm	64.00mm	6.00mm	30 °	OSG	**30L856**
7.00mm	19.00mm	64.00mm	8.00mm	30 °	OSG	**30L864**
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	**30L890**
10.00mm	6.70mm	100.00mm	10.00mm	30 °	Micro 100	**14K798**
11.00mm	25.00mm	70.00mm	11.00mm	30 °	OSG	**30L913**
12.00mm	8.00mm	100.00mm	12.00mm	30 °	Micro 100	**14K813**
16.00mm	3 in	89.00mm	16.00mm	30 °	OSG	**30L942**
20.00mm	3 in	102.00mm	20.00mm	30 °	OSG	**30L956**
22.00mm	3 in	102.00mm	22.00mm	30 °	OSG	**30L960**
25.00mm	3 in	102.00mm	25.00mm	30 °	OSG	**30L965**
TiAlN						
2 Flutes						
⅛ in	¼ in	1½"	⅛ in	35 °	Cleveland	**33GH27**
⅛ in	½ in	1½"	⅛ in	30 °	OSG	**30L818**
⅛ in	1 in	3 in	⅛ in	30 °	OSG	**54LJ58**
9/64 in	9/16 in	2 in	3/16 in	35 °	Cleveland	**33GH31**
5/32 in	9/16 in	2 in	3/16 in	35 °	Cleveland	**33GH32**
11/64 in	3 in	2 in	3/16 in	35 °	Cleveland	**33GH33**
3/16 in	1 ⅛ in	3 in	3/16 in	30 °	OSG	**54LJ59**
3/16 in	3 in	2 in	3/16 in	30 °	OSG	**30L839**
3/16 in	3 in	2 in	3/16 in	35 °	Cleveland	**33GH34**
3/16 in	3 in	2½"	3/16 in	35 °	Cleveland	**33GH36**
13/64 in	3 in	2½"	¼ in	35 °	Cleveland	**33GH38**
7/32 in	3 in	2½"	¼ in	35 °	Cleveland	**33GH39**
15/64 in	3 in	2½"	¼ in	35 °	Cleveland	**33GH40**
¼ in	½ in	2 in	¼ in	35 °	Cleveland	**33GH41**
¼ in	1 ⅛ in	3 in	¼ in	35 °	Cleveland	**33GH43**
¼ in	3 in	2½"	¼ in	35 °	Cleveland	**33GH42**
17/64 in	⅞ in	2½"	5/16 in	35 °	Cleveland	**33GH46**
9/32 in	3 in	2½"	5/16 in	30 °	OSG	**30L869**
5/16 in	½ in	2 in	5/16 in	35 °	Cleveland	**33GH48**
5/16 in	13/16 in	2½"	5/16 in	30 °	OSG	**30L875**
5/16 in	⅞ in	2½"	5/16 in	35 °	Cleveland	**33GH49**
5/16 in	1 ⅛ in	3 in	5/16 in	35 °	Cleveland	**33GH50**
5/16 in	1 ⅝ in	4 in	5/16 in	35 °	Cleveland	**33GH51**
⅜ in	1 in	2½"	⅜ in	30 °	OSG	**2TXP3**
⅜ in	1 ¾ in	4 in	⅜ in	35 °	Cleveland	**33GH56**
⅜ in	1 ½ in	6 in	⅜ in	35 °	Cleveland	**33GH55**
⅜ in	2 in	4 in	⅜ in	30 °	Gorilla Mill	**36NZ28**
⅜ in	3 in	2 in	⅜ in	35 °	Cleveland	**33GH52**
⅜ in	3 in	6 in	⅜ in	30 °	Gorilla Mill	**36NZ16**
13/32 in	1 in	2¾"	7/16 in	30 °	OSG	**30L906**
7/16 in	1 in	2¾"	7/16 in	30 °	OSG	**30L916**
7/16 in	3 in	2½"	7/16 in	35 °	Cleveland	**33GH57**
½ in	1 in	3 in	½ in	30 °	OSG	**2TXP7**
½ in	1 ½ in	6 in	½ in	35 °	Cleveland	**33GH63**
½ in	3 in	2½"	½ in	35 °	Cleveland	**33GH61**
¾ in	2 ¼ in	5 in	¾ in	35 °	Cleveland	**33GH73**
1 in	1 ½ in	4 in	1 in	30 °	OSG	**30L809**
1 in	3 in	6 in	1 in	35 °	Cleveland	**33GH80**
3.50mm	12.00mm	51.00mm	4.00mm	30 °	OSG	**30L822**
4.00mm	8.00mm	51.00mm	4.00mm	30 °	OSG	**54LJ49**
4.00mm	14.00mm	51.00mm	4.00mm	30 °	OSG	**30L830**
4.50mm	14.00mm	51.00mm	5.00mm	30 °	OSG	**30L838**
5.00mm	16.00mm	51.00mm	5.00mm	30 °	OSG	**30L843**
6.00mm	19.00mm	64.00mm	6.00mm	30 °	OSG	**30L857**
7.00mm	19.00mm	64.00mm	8.00mm	30 °	OSG	**30L865**
8.00mm	21.00mm	64.00mm	8.00mm	30 °	OSG	**30L879**
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	**30L891**
11.00mm	25.00mm	70.00mm	11.00mm	30 °	OSG	**30L914**
16.00mm	3 in	89.00mm	16.00mm	30 °	OSG	**30L943**
18.00mm	3 in	102.00mm	18.00mm	30 °	OSG	**30L951**
20.00mm	3 in	102.00mm	20.00mm	30 °	OSG	**30L957**
22.00mm	3 in	102.00mm	22.00mm	30 °	OSG	**30L961**
25.00mm	3 in	102.00mm	25.00mm	30 °	OSG	**30L966**
4 Flutes						
⅛ in	¼ in		⅛ in	30 °	OSG	**54LJ39**
⅛ in	½ in	1½"	⅛ in	30 °	OSG	**2TXT1**
⅛ in	1 in	3 in	⅛ in	30 °	OSG	**54LJ61**
⅛ in	3 in		⅛ in	30 °	OSG	**54LJ52**
⅛ in	3 in		⅜ in	30 °	OSG	**54LJ67**
⅛ in	3 in	2 in	⅛ in	30 °	Cleveland	**33GL48**
5/32 in	3 in	2 in	3/16 in	30 °	Cleveland	**33GL52**
3/16 in	1 in	4 in	3/16 in	30 °	Widia Hanita	**48HA94**
3/16 in	3 in		3/16 in	30 °	Widia Hanita	**48HA91**
3/16 in	3 in	2 in	3/16 in	30 °	OSG	**54LJ41**
3/16 in	3 in	2 in	3/16 in	30 °	Cleveland	**33GL55**
3/16 in	3 in	2 in	3/16 in	30 °	Widia Hanita	**48HA92**
7/32 in	3 in	2½"	¼ in	30 °	Cleveland	**33GL60**
¼ in	½ in	2 in	¼ in	30 °	Widia Hanita	**48HA98**
¼ in	1 ⅛ in	3 in	¼ in	30 °	OSG	**54LJ54**
¼ in	1 ½ in	4 in	¼ in	30 °	Widia Hanita	**48HC02**
¼ in	1 ½ in	4 in	¼ in	30 °	OSG	**54LJ63**
¼ in	1 in	4 in	¼ in	30 °	Cleveland	**33GL64**
¼ in	3 in		¼ in	30 °	Widia Hanita	**48HA99**
5/16 in	½ in	2 in	5/16 in	30 °	OSG	**54LJ44**
5/16 in	13/16 in	2½"	5/16 in	30 °	OSG	**2TXT9**
5/16 in	⅞ in	2½"	5/16 in	30 °	Cleveland	**33GL71**
5/16 in	1 ⅛ in	3 in	5/16 in	30 °	Widia Hanita	**48HC08**
5/16 in	1 ⅝ in	4 in	5/16 in	30 °	Cleveland	**33GL73**
23/64 in	⅞ in	2½"	⅜ in	30 °	Cleveland	**33GL74**
⅜ in	⅛ in	2½"	⅜ in	30 °	Gorilla Mill	**36NZ04**
⅜ in	1 in	2½"	⅜ in	30 °	OSG	**2TXU2**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	Widia Hanita	**48HC13**
⅜ in	1 ¾ in	4 in	⅜ in	30 °	OSG	**54LJ65**
⅜ in	1 in	4 in	⅜ in	30 °	Widia Hanita	**48HC11**
⅜ in	1 ½ in	6 in	⅜ in	30 °	Cleveland	**33GL78**
⅜ in	1 ½ in	6 in	⅜ in	30 °	Widia Hanita	**48HC14**
⅜ in	3 in	2 in	⅜ in	30 °	Cleveland	**33GL75**
⅜ in	3 in	6 in	⅜ in	30 °	Gorilla Mill	**36NZ20**
7/16 in	1 in		½ in	30 °	Widia Hanita	**48HC15**
7/16 in	3 in	6 in	7/16 in	30 °	Cleveland	**33GL85**
½ in	1 in	3 in	½ in	30 °	OSG	**2TXU4**
½ in	1 in	4 in	½ in	30 °	Widia Hanita	**48HC16**
½ in	1 ½ in	6 in	½ in	30 °	Widia Hanita	**48HC18**
½ in	2 in		½ in	30 °	Widia Hanita	**48HC19**
½ in	3 in	6 in	½ in	30 °	OSG	**54LJ66**
9/16 in	1 ¼ in		9/16 in	30 °	Widia Hanita	**48HC22**
⅝ in	1 ¼ in		⅝ in	30 °	Widia Hanita	**48HC24**
⅝ in	1 ¼ in	3½"	⅝ in	30 °	OSG	**2TXU6**
⅝ in	2 ¼ in	5 in	⅝ in	30 °	Widia Hanita	**48HC25**
⅝ in	3 in	3 in	⅝ in	30 °	Widia Hanita	**48HC23**
⅝ in	3 in	6 in	⅝ in	30 °	Cleveland	**33GL96**
11/16 in	1 ⅜ in	4 in	¾ in	30 °	OSG	**30M154**
¾ in	1 in	3 in	¾ in	30 °	Widia Hanita	**48HC27**
¾ in	1 ½ in	4 in	¾ in	30 °	OSG	**2TXU8**
¾ in	3 in	6 in	¾ in	30 °	Widia Hanita	**48HC29**
1 in	1 ½ in	4 in	1 in	30 °	OSG	**2TXR8**
1 in	3 in	6 in	1 in	30 °	Cleveland	**33GM07**
3.50mm	12.00mm	51.00mm	4.00mm	30 °	OSG	**30M011**
4.00mm	14.00mm	51.00mm	4.00mm	30 °	OSG	**30M021**
4.50mm	14.00mm	51.00mm	5.00mm	30 °	OSG	**30M029**
5.00mm	16.00mm	51.00mm	5.00mm	30 °	OSG	**30M035**
6.00mm	19.00mm	64.00mm	6.00mm	30 °	OSG	**30M051**
7.00mm	19.00mm	64.00mm	8.00mm	30 °	OSG	**30M061**
8.00mm	21.00mm	64.00mm	8.00mm	30 °	OSG	**30M075**
9.00mm	22.00mm	70.00mm	10.00mm	30 °	OSG	**30M087**
10.00mm	25.00mm	70.00mm	10.00mm	30 °	OSG	**30M102**
11.00mm	25.00mm	70.00mm	11.00mm	30 °	OSG	**30M114**
12.00mm	25.00mm	76.00mm	12.00mm	30 °	OSG	**30M130**
14.00mm	3 in	89.00mm	14.00mm	30 °	OSG	**30M140**
18.00mm	3 in	102.00mm	18.00mm	30 °	OSG	**30M158**
22.00mm	3 in	102.00mm	22.00mm	30 °	OSG	**30M168**
25.00mm	3 in	102.00mm	25.00mm	30 °	OSG	**30M174**
TiCN						
4 Flutes						
⅜ in	⅞ in	2½"	⅜ in	30 °	Gorilla Mill	**36NZ05**

General Purpose Roughing/ Finishing Carbide Ball End Mills



4 Flute
No. 19LP96

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish					
2 Flutes					
¼ in	½ in	2 in	¼ in	Monster	**19LM45**
¼ in	½ in	4 in	¼ in	Micro 100	**16F671**
¼ in	1 ⅛ in	3 in	¼ in	Monster	**19LR81**
¼ in	1 ½ in	4 in	¼ in	Monster	**19LT31**
¼ in	1 ½ in	6 in	¼ in	Monster	**19LT33**
⅜ in	1 in	2½"	⅜ in	Monster	**19LN65**
⅜ in	1 ¾ in	4 in	⅜ in	Monster	**19LT42**
⅜ in	1 ½ in	6 in	⅜ in	Monster	**19LT39**
⅜ in	3 in	2 in	⅜ in	Monster	**19LM50**
½ in	1 ½ in	4 in	½ in	Monster	**19LR89**
½ in	1 in	6 in	½ in	Micro 100	**16F687**
½ in	2 in	4 in	½ in	Monster	**19LR91**
½ in	3 in	2½"	½ in	Monster	**19LM54**
¾ in	1 in	3 in	¾ in	Monster	**19LM58**

CONTINUED

CONTINUED

For more information on end mills, see page 2277.

See page 2287 for more information on ball end mills.

General Purpose Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish (Cont.)					
2 Flutes (Cont.)					
¾ in	3 in	6 in	¾ in	Monster	**19LT55**
1 in	1 ½ in	4 in	1 in	Monster	**19LN88**
1 in	2 ¼ in	5 in	1 in	Monster	**19LR97**
1 in	3 in	6 in	1 in	Monster	**19LT61**
4.00mm	14.00mm	51.00mm	4.00mm	Monster	**19LP05**
4.50mm	16.00mm	51.00mm	5.00mm	Monster	**19LP07**
5.00mm	16.00mm	51.00mm	5.00mm	Monster	**19LP09**
7.00mm	19.00mm	63.00mm	8.00mm	Monster	**19LP13**
9.00mm	22.00mm	63.00mm	10.00mm	Monster	**19LP17**
10.00mm	25.00mm	72.00mm	10.00mm	Micro 100	**16F590**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**19LP23**
16.00mm	3 in	102.00mm	16.00mm	Monster	**19LP27**
18.00mm	3 in	102.00mm	18.00mm	Monster	**19LP29**
22.00mm	3 in	102.00mm	22.00mm	Monster	**19LP33**
4 Flutes					
¼ in	½ in	2 in	¼ in	Monster	**19LM92**
¼ in	½ in	4 in	¼ in	Micro 100	**16F673**
¼ in	1 ⅛ in	3 in	¼ in	Monster	**19LT06**
¼ in	1 ½ in	4 in	¼ in	Monster	**19LT73**
¼ in	3 in	2½"	¼ in	Micro 100	**16F497**
¼ in	3 in	2½"	¼ in	Monster	**19LP79**
½ in	1 in	3 in	½ in	Monster	**19LP97**
½ in	1 ½ in	4 in	½ in	Monster	**19LT14**
½ in	1 ½ in	6 in	½ in	Monster	**19LT88**
½ in	1 in	6 in	½ in	Micro 100	**16F689**
½ in	2 in	4 in	½ in	Monster	**19LT16**
½ in	3 in	2½"	½ in	Monster	**19LN02**
¾ in	1 in	3 in	¾ in	Monster	**19LN06**
¾ in	1 ½ in	4 in	¾ in	Monster	**19LR11**
1 in	1 ½ in	4 in	1 in	Monster	**19LR14**
1 in	3 in	7 in	1 in	Monster	**19LU02**
4.00mm	14.00mm	51.00mm	4.00mm	Monster	**19LR33**
4.50mm	16.00mm	51.00mm	5.00mm	Monster	**19LR35**
5.00mm	16.00mm	51.00mm	5.00mm	Monster	**19LR37**
6.00mm	19.00mm	63.00mm	6.00mm	Monster	**19LR40**
7.00mm	19.00mm	63.00mm	8.00mm	Monster	**19LR42**
8.00mm	20.00mm	63.00mm	8.00mm	Monster	**19LR45**
11.00mm	25.00mm	76.00mm	12.00mm	Monster	**19LR51**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**19LR53**
14.00mm	3 in	90.00mm	14.00mm	Monster	**19LR55**
18.00mm	3 in	102.00mm	18.00mm	Monster	**19LR59**
22.00mm	3 in	102.00mm	22.00mm	Monster	**19LR63**
25.00mm	3 in	102.00mm	25.00mm	Monster	**19LR65**
Bright (Uncoated) Finish					
2 Flutes					
½ in	3 in	2½"	½ in	Monster	**19LM53**
4 Flutes					
¼ in	½ in	2 in	¼ in	Monster	**19LM91**
¼ in	½ in	4 in	¼ in	Micro 100	**16F672**
¼ in	1 ⅛ in	3 in	¼ in	Monster	**19LT05**
¼ in	1 ½ in	4 in	¼ in	Monster	**19LT72**
¼ in	1 in	4 in	¼ in	Monster	**19LT71**
¼ in	1 ½ in	6 in	¼ in	Monster	**19LT74**
¼ in	3 in	2½"	¼ in	Micro 100	**16F496**
¼ in	3 in	2½"	¼ in	Monster	**19LP77**
¼ in	3 in	3⅜"	⅜ in	OSG	**35CZ52**
⅜ in	⅞ in	2½"	⅜ in	Micro 100	**16F515**
⅜ in	1 in	2½"	⅜ in	Monster	**19LP88**
⅜ in	1 ⅛ in	3 in	⅜ in	OSG	**35CY10**
⅜ in	1 ¾ in	4 in	⅜ in	Monster	**19LT80**
⅜ in	3 in	2 in	⅜ in	Monster	**19LM96**
⅜ in	3 in	3½"	⅜ in	OSG	**35CZ56**
½ in	1 in	3 in	½ in	Micro 100	**16F527**
½ in	1 in	3 in	½ in	Monster	**19LP96**
½ in	1 in	4 in	½ in	OSG	**35CZ58**
½ in	1 in	6 in	½ in	Micro 100	**16F688**
½ in	3 in	2½"	½ in	Monster	**19LN01**
½ in	3 in	6 in	½ in	Monster	**19LT87**
½ in	3 in	6 in	½ in	SGS Tool	**41AW60**
¾ in	1 ½ in	4 in	¾ in	Monster	**19LR10**
¾ in	1 ½ in	6 in	¾ in	Monster	**19LT97**
¾ in	2 ¼ in	5 in	¾ in	Monster	**19LT20**
¾ in	3 in	6 in	¾ in	OSG	**35CY41**
¾ in	3 in	7 in	¾ in	Monster	**19LT95**
1 in	1 ½ in	4 in	1 in	Monster	**19LR13**
1 in	2 ¼ in	5 in	1 in	OSG	**35CX99**
1 in	3 in	7 in	1 in	Monster	**19LU01**
3.50mm	7.00mm	51.00mm	4.00mm	OSG	**35CX66**
4.00mm	8.00mm	51.00mm	4.00mm	OSG	**35CX67**
4.50mm	9.00mm	51.00mm	5.00mm	OSG	**35CX68**
4.00mm	14.00mm	51.00mm	4.00mm	Monster	**19LR32**
4.50mm	16.00mm	51.00mm	5.00mm	Monster	**19LR34**
4.00mm	19.00mm	57.00mm	4.00mm	OSG	**35CY03**
5.00mm	3 in	76.00mm	5.00mm	OSG	**35CY56**
5.00mm	10.00mm	51.00mm	5.00mm	OSG	**35CX69**
6.00mm	3 in	102.00mm	6.00mm	OSG	**35CY57**
6.00mm	12.00mm	51.00mm	6.00mm	OSG	**35CX70**
6.00mm	28.00mm	76.00mm	6.00mm	OSG	**35CY06**
7.00mm	12.00mm	51.00mm	8.00mm	OSG	**35CX71**
8.00mm	3 in	102.00mm	8.00mm	OSG	**35CY58**
8.00mm	12.00mm	51.00mm	8.00mm	OSG	**35CX72**
8.00mm	14.00mm	100.00mm	8.00mm	Micro 100	**16F733**
8.00mm	20.00mm	63.00mm	8.00mm	Monster	**19LR44**
9.00mm	14.00mm	51.00mm	10.00mm	OSG	**35CX73**
9.00mm	22.00mm	63.00mm	10.00mm	Monster	**19LR46**
10.00mm	3 in	76.00mm	10.00mm	OSG	**35CY11**
10.00mm	3 in	102.00mm	10.00mm	OSG	**35CY59**
10.00mm	14.00mm	51.00mm	10.00mm	OSG	**35CX74**
10.00mm	22.00mm	76.00mm	10.00mm	Monster	**19LR48**
11.00mm	16.00mm	64.00mm	11.00mm	OSG	**35CX75**
12.00mm	16.00mm	64.00mm	12.00mm	OSG	**35CX76**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**19LR52**
12.00mm	76.00mm	153.00mm	12.00mm	OSG	**35CY60**
14.00mm	3 in	127.00mm	14.00mm	OSG	**35CY15**
14.00mm	76.00mm	153.00mm	14.00mm	OSG	**35CY61**
16.00mm	3 in	102.00mm	16.00mm	Monster	**19LR56**
16.00mm	76.00mm	153.00mm	16.00mm	OSG	**35CY62**
18.00mm	3 in	102.00mm	18.00mm	Monster	**19LR58**
18.00mm	76.00mm	153.00mm	18.00mm	OSG	**35CY63**
20.00mm	3 in	127.00mm	20.00mm	OSG	**35CY20**
22.00mm	3 in	102.00mm	22.00mm	Monster	**19LR62**
25.00mm	76.00mm	153.00mm	25.00mm	OSG	**35CY65**
TiAlN Finish					
3 Flutes					
¼ in	3 in	2½"	¼ in	OSG	**35CW06**
½ in	1 in	3 in	½ in	OSG	**35CW20**
4.50mm	14.00mm	51.00mm	5.00mm	OSG	**35CW48**
7.00mm	19.00mm	64.00mm	8.00mm	OSG	**35CW54**
8.00mm	21.00mm	64.00mm	8.00mm	OSG	**35CW56**
10.00mm	25.00mm	70.00mm	10.00mm	OSG	**35CW60**
11.00mm	25.00mm	70.00mm	11.00mm	OSG	**35CW62**
14.00mm	3 in	89.00mm	14.00mm	OSG	**35CW66**
16.00mm	3 in	89.00mm	16.00mm	OSG	**35CW68**
20.00mm	3 in	102.00mm	20.00mm	OSG	**35CW72**
22.00mm	3 in	102.00mm	22.00mm	OSG	**35CW74**
25.00mm	3 in	102.00mm	25.00mm	OSG	**35CW76**
TiCN Finish					
2 Flutes					
¼ in	1 ½ in	4 in	¼ in	Monster	**45XW80**
¼ in	3 in		¼ in	Monster	**45XT29**
½ in	1 in	3 in	½ in	Monster	**45XT52**
½ in	1 ½ in	6 in	½ in	Monster	**45XW94**
¾ in	1 ½ in	6 in	¾ in	Monster	**45XX05**
3.50mm	12.00mm	51.00mm	4.00mm	Monster	**45XT76**
5.00mm	16.00mm	51.00mm	5.00mm	Monster	**45XT82**
10.00mm	22.00mm	76.00mm	10.00mm	Monster	**45XT92**
14.00mm	3 in	90.00mm	14.00mm	Monster	**45XT98**
18.00mm	3 in	102.00mm	18.00mm	Monster	**45XU03**
20.00mm	3 in	102.00mm	20.00mm	Monster	**45XU05**
4 Flutes					
¼ in	1 ⅛ in	3 in	¼ in	Monster	**45XW56**
¼ in	1 ½ in	4 in	¼ in	Monster	**45XX17**
⅜ in	1 in		⅜ in	Monster	**45XV44**
⅜ in	1 ¾ in	4 in	⅜ in	Monster	**45XX25**
⅜ in	3 in	2 in	⅜ in	Monster	**45XR85**
½ in	1 in	3 in	½ in	Monster	**45XV54**
½ in	1 ½ in	4 in	½ in	Monster	**45XW64**
½ in	2 in	4 in	½ in	Monster	**45XW66**
½ in	3 in		½ in	Monster	**45XR89**
½ in	3 in	6 in	½ in	Monster	**45XX33**
⅝ in	1 ¼ in		⅝ in	Monster	**45XV59**
⅝ in	3 in	6 in	⅝ in	Monster	**45XX35**
¾ in	1 ½ in	6 in	¾ in	Monster	**45XX41**
¾ in	2 ¼ in	5 in	¾ in	Monster	**45XW70**
1 in	1 ½ in	6 in	1 in	Monster	**45XX45**
1 in	3 in	6 in	1 in	Monster	**45XX43**
3.50mm	12.00mm	51.00mm	4.00mm	Monster	**45XV78**
4.50mm	16.00mm	51.00mm	5.00mm	Monster	**45XV82**
5.00mm	16.00mm	51.00mm	5.00mm	Monster	**45XV84**
7.00mm	19.00mm	63.00mm	8.00mm	Monster	**45XV88**
8.00mm	20.00mm	63.00mm	8.00mm	Monster	**45XV90**
10.00mm	22.00mm	76.00mm	10.00mm	Monster	**45XV94**
11.00mm	25.00mm	76.00mm	12.00mm	Monster	**45XV96**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**45XV98**
14.00mm	3 in	90.00mm	14.00mm	Monster	**45XW01**
18.00mm	3 in	102.00mm	18.00mm	Monster	**45XW05**
20.00mm	3 in	102.00mm	20.00mm	Monster	**45XW07**
TiN					
2 Flutes					
⅛ in	1 in	3 in	⅛ in	Monster	**45XW73**
½ in	1 in	3 in	½ in	Monster	**45XT51**
½ in	2 in	4 in	½ in	Monster	**45XW41**
3.50mm	12.00mm	51.00mm	4.00mm	Monster	**45XT75**
11.00mm	31/32 in		15/32 in	Monster	**45XT93**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**45XT95**
14.00mm	3 in	90.00mm	14.00mm	Monster	**45XT97**
18.00mm	3 in	102.00mm	18.00mm	Monster	**45XU02**
20.00mm	3 in	102.00mm	20.00mm	Monster	**45XU04**
4 Flutes					
¼ in	½ in	2 in	¼ in	Monster	**45XR81**
¼ in	1 ⅛ in	3 in	¼ in	Monster	**45XW55**
¼ in	1 ½ in	4 in	¼ in	Monster	**45XX16**
¼ in	1 ½ in	6 in	¼ in	Monster	**45XX18**
¼ in	3 in		¼ in	Monster	**45XV32**
½ in	1 in	3 in	½ in	Monster	**45XV53**
½ in	1 ½ in	4 in	½ in	Monster	**45XW63**
½ in	1 ½ in	6 in	½ in	Monster	**45XX30**
½ in	2 in	4 in	½ in	Monster	**45XW65**
½ in	3 in		½ in	Monster	**45XR88**
½ in	3 in	6 in	½ in	Monster	**45XX32**
¾ in	1 ½ in	6 in	¾ in	Monster	**45XX40**
¾ in	2 ¼ in	5 in	¾ in	Monster	**45XW69**
1 in	1 ½ in	6 in	1 in	Monster	**45XX44**
1 in	3 in	6 in	1 in	Monster	**45XX42**
3.50mm	12.00mm	51.00mm	4.00mm	Monster	**45XV77**
12.00mm	25.00mm	76.00mm	12.00mm	Monster	**45XV97**
14.00mm	3 in	90.00mm	14.00mm	Monster	**45XV99**
18.00mm	3 in	102.00mm	18.00mm	Monster	**45XW04**
20.00mm	3 in	102.00mm	20.00mm	Monster	**45XW06**

Additional End Mill sizes, materials, and coatings are available on Grainger.com®.

CLEVELAND

General Purpose Finishing Cobalt Ball End Mills



TiN Finish
2 Flutes
No. 437Z54

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Bright (Uncoated) Finish					
2 Flutes					
1/8 in	3 in	2 5/16 in	3/8 in	Cleveland	**2NFP8**
1/8 in	3 in	2 5/16 in	3/8 in	OSG	**35DG77**
3/16 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FP45**
3/16 in	1/2 in	2 3/8 in	3/8 in	OSG	**35DG78**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR25**
5/16 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFR2**
5/16 in	3 in	2 1/2 in	3/8 in	OSG	**35DG80**
3/8 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFR3**
7/16 in	1 in	3 in	1/2 in	OSG	**35DG98**
1/2 in	1 in	3 in	1/2 in	YG-1 Tool Company	**35V286**
1/2 in	2 in	4 in	1/2 in	OSG	**35DG97**
9/16 in	1 1/8 in	3 1/8 in	1/2 in	YG-1 Tool Company	**35V287**
5/8 in	1 3/8 in	3 1/2 in	5/8 in	OSG	**35DG87**
5/8 in	1 3/8 in	4 5/8 in	5/8 in	OSG	**35DH06**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX44**
3/4 in	1 5/16 in	3 5/16 in	1/2 in	YG-1 Tool Company	**35V290**
7/8 in	1 7/8 in	4 1/8 in	3/4 in	OSG	**35DG89**
7/8 in	2 in	4 1/4 in	3/4 in	YG-1 Tool Company	**35V292**
1 1/4 in	1 5/8 in	3 7/8 in	3/4 in	YG-1 Tool Company	**35V298**
1 1/8 in	1 5/8 in	3 7/8 in	3/4 in	YG-1 Tool Company	**35V296**
1 1/2 in	1 5/8 in	4 1/8 in	3/4 in	YG-1 Tool Company	**35V303**
1 3/8 in	1 5/8 in	4 1/8 in	3/4 in	YG-1 Tool Company	**35V301**
1 in	2 1/2 in	—	1 in	YG-1 Tool Company	**55FZ03**
1 in	2 1/4 in	4 3/4 in	1 in	OSG	**35DG93**
1 1/4 in	2 1/2 in	5 in	1 1/4 in	OSG	**35DG95**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**35V305**
4 Flutes					
1/8 in	3 in	2 5/16 in	3/8 in	Cleveland	**2NFT8**
3/16 in	1/2 in	2 3/8 in	3/8 in	Cleveland	**2NFT9**
3/16 in	1/2 in	2 3/8 in	3/8 in	YG-1 Tool Company	**35V408**
1/4 in	1 1/4 in	—	3/8 in	YG-1 Tool Company	**55FR30**
1/4 in	3 in	2 7/16 in	3/8 in	YG-1 Tool Company	**35V409**
5/16 in	1 3/8 in	—	3/8 in	YG-1 Tool Company	**55FT01**
5/16 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFU2**
3/8 in	1 1/2 in	—	3/8 in	YG-1 Tool Company	**55FT54**
3/8 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFU3**
7/16 in	1 1/4 in	3 1/4 in	1/2 in	OSG	**35DJ91**
1/2 in	1 1/4 in	3 1/4 in	1/2 in	OSG	**35DJ83**
5/8 in	1 5/8 in	3 3/4 in	5/8 in	OSG	**35DJ84**
3/8 in	2 1/2 in	4 5/8 in	3/8 in	OSG	**35DJ85**
11/16 in	1 5/8 in	3 3/4 in	5/8 in	YG-1 Tool Company	**35V415**
3/4 in	1 3/8 in	3 7/8 in	3/4 in	Cleveland	**2NFU6**
3/4 in	3 in	—	3/4 in	Cleveland	**438H11**
7/8 in	3 in	—	7/8 in	YG-1 Tool Company	**55FY43**
1 1/4 in	2 in	4 1/2 in	1 1/4'	YG-1 Tool Company	**35V420**
1 in	3 in	—	1 in	YG-1 Tool Company	**55FZ08**
2 in	2 in	4 1/2 in	1 1/4 in	YG-1 Tool Company	**35V422**
6 Flutes					
1 1/2 in	2 in	—	1 1/4 in	Cleveland	**437Z66**
1 1/4 in	2 in	—	1 1/4 in	Cleveland	**437Z65**
1 in	2 in	—	1 in	Cleveland	**438H09**
TiCN Finish					
2 Flutes					
1/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FM94**
3/16 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FP46**
3/16 in	1/2 in	2 3/8 in	3/8 in	Cleveland	**2NFR9**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR26**
5/16 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR93**
3/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT50**
3/8 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFT3**
1/2 in	1 in	3 1/4 in	1/2 in	Cleveland	**2NFT4**
9/16 in	1 1/8 in	—	1/2 in	YG-1 Tool Company	**55FW29**
5/8 in	1 3/8 in	—	5/8 in	YG-1 Tool Company	**55FW50**
3/4 in	1 5/16 in	—	1/2 in	YG-1 Tool Company	**55FX40**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX45**
7/8 in	1 7/8 in	—	7/8 in	Cleveland	**437Z64**
7/8 in	2 in	—	3/4 in	YG-1 Tool Company	**55FY37**
1 1/8 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FZ96**
1 in	1 5/8 in	4 1/2 in	1 in	Cleveland	**2NFT7**
1 in	2 1/4 in	—	1 in	YG-1 Tool Company	**55FZ02**
1 1/2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC04**
1 1/4 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GA22**
1 3/8 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GA93**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC85**
4 Flutes					
3/16 in	1/2 in	2 3/8 in	3/8 in	Cleveland	**2NFU9**
1/4 in	1 1/4 in	—	3/8 in	YG-1 Tool Company	**55FR31**
5/16 in	1 3/8 in	—	3/8 in	YG-1 Tool Company	**55FT02**
5/16 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFV2**
3/8 in	1 1/2 in	—	3/8 in	YG-1 Tool Company	**55FT55**
3/8 in	3 in	2 1/2 in	3/8 in	Cleveland	**2NFV3**
7/16 in	1 in	—	3/8 in	YG-1 Tool Company	**55FV16**
1/2 in	1 1/4 in	3 1/4 in	1/2 in	Cleveland	**2NFV4**
1/2 in	2 in	4 in	1/2 in	YG-1 Tool Company	**55FV59**
5/8 in	1 5/8 in	—	5/8 in	YG-1 Tool Company	**55FW52**
5/8 in	2 1/2 in	—	5/8 in	YG-1 Tool Company	**55FW55**
11/16 in	1 5/8 in	—	5/8 in	YG-1 Tool Company	**55FX23**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX47**
7/8 in	3 in	—	7/8 in	YG-1 Tool Company	**55FY44**
1 in	1 7/8 in	—	1 in	YG-1 Tool Company	**55FZ06**
1 1/8 in	2 in	—	1 in	YG-1 Tool Company	**55GA01**
1 in	3 in	—	1 in	YG-1 Tool Company	**55FZ09**
2 in	2 in	—	1 1/4 in	YG-1 Tool Company	**55GC87**
6 Flutes					
1 1/2 in	2 in	—	1 1/4 in	Cleveland	**437Z83**
1 in	2 in	—	1 in	Cleveland	**437Z81**
TiN Finish					
2 Flutes					
1/8 in	3 in	—	3/8 in	Cleveland	**437Z54**
3/16 in	1/2 in	—	3/8 in	Cleveland	**437Z55**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR27**
5/16 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR94**
3/8 in	3 in	—	3/8 in	Cleveland	**437Z58**
3/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT51**
7/16 in	1 in	3 in	1/2 in	YG-1 Tool Company	**55FV12**
1/2 in	1 in	—	1/2 in	Cleveland	**437Z59**
5/8 in	1 1/8 in	—	1/2 in	YG-1 Tool Company	**55FW46**
5/8 in	1 3/8 in	—	5/8 in	YG-1 Tool Company	**55FW51**
3/4 in	1 5/16 in	—	1/2 in	YG-1 Tool Company	**55FX41**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX46**
7/8 in	1 7/8 in	—	7/8 in	Cleveland	**437Z62**
7/8 in	2 in	—	3/4 in	YG-1 Tool Company	**55FY38**
1 3/8 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55GA92**
1 in	2 1/4 in	—	1 in	Cleveland	**437Z63**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC86**
4 Flutes					
1/8 in	3 in	—	3/8 in	Cleveland	**437Z67**
3/16 in	1/2 in	—	3/8 in	Cleveland	**437Z68**
1/4 in	3 in	—	3/8 in	Cleveland	**437Z69**
5/16 in	1 3/8 in	—	3/8 in	YG-1 Tool Company	**55FT03**
3/8 in	1 1/2 in	—	3/8 in	YG-1 Tool Company	**55FT56**
3/8 in	3 in	—	3/8 in	Cleveland	**437Z71**
7/16 in	1 in	—	3/8 in	YG-1 Tool Company	**55FV17**
1/2 in	2 in	4 in	1/2 in	YG-1 Tool Company	**55FV60**
5/8 in	1 5/8 in	—	5/8 in	Cleveland	**437Z73**
11/16 in	1 5/8 in	—	5/8 in	YG-1 Tool Company	**55FX24**
3/4 in	1 3/8 in	—	3/4 in	YG-1 Tool Company	**55FX48**
7/8 in	3 in	—	7/8 in	YG-1 Tool Company	**55FY45**
1 in	1 7/8 in	—	1 in	YG-1 Tool Company	**55FZ07**
1 1/8 in	2 in	—	1 in	YG-1 Tool Company	**55GA02**
1 in	3 in	—	1 in	YG-1 Tool Company	**55FZ10**
2 in	2 in	—	1 1/4 in	YG-1 Tool Company	**55GC88**
6 Flutes					
1 1/4 in	2 in	—	1 1/4 in	Cleveland	**437Z78**

General Purpose Double-End Finishing Bright Finish Cobalt Ball End Mills



TiCN Finish
4 Flutes
No. 55FN20

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Bright (Uncoated) Finish					
2 Flutes					
1/8 in	3 in	2 in	3/16 in	OSG	**35DN65**
1/8 in	3 in	2 1/4 in	3/16 in	OSG	**35DN70**
1/8 in	3 in	3 1/16 in	3/8 in	OSG	**35DN12**
5/32 in	15/64 in	2 in	3/16 in	OSG	**35DN66**
5/32 in	13/32 in	—	3/16 in	YG-1 Tool Company	**55FP12**
5/32 in	7/16 in	2 1/4 in	3/16 in	OSG	**35DN71**
1/4 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FR57**
3/8 in	9/16 in	—	3/8 in	YG-1 Tool Company	**55FT75**
1/2 in	13/16 in	—	1/2 in	YG-1 Tool Company	**55FV91**
5/8 in	1 1/8 in	4 1/2 in	5/8 in	OSG	**35DN18**
3/4 in	1 5/16 in	5 in	3/4 in	OSG	**35DN19**
4 Flutes					
1/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FN19**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR60**
3/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT78**
1/2 in	1 in	—	1/2 in	YG-1 Tool Company	**55FV94**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW90**
3/4 in	1 3/8 in	—	3/4 in	YG-1 Tool Company	**55FX88**
1 in	1 7/8 in	—	1 in	YG-1 Tool Company	**55FZ55**
TiCN Finish					
2 Flutes					
1/8 in	3 in	2 in	3/16 in	YG-1 Tool Company	**55FN40**
5/32 in	15/64 in	2 in	3/16 in	YG-1 Tool Company	**55FP10**
3/16 in	7/16 in	—	3/8 in	YG-1 Tool Company	**55FP68**
1/4 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FR58**
5/16 in	9/16 in	—	3/8 in	YG-1 Tool Company	**55FT24**
3/8 in	9/16 in	—	3/8 in	YG-1 Tool Company	**55FT76**
1/2 in	13/16 in	—	1/2 in	YG-1 Tool Company	**55FV92**
5/8 in	1 1/8 in	—	5/8 in	YG-1 Tool Company	**55FW88**
3/4 in	1 5/16 in	5 in	3/4 in	YG-1 Tool Company	**55FX86**
4 Flutes					
1/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FN20**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR61**
5/16 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT27**
3/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT79**
1/2 in	1 in	—	1/2 in	YG-1 Tool Company	**55FV95**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW91**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX89**
TiN Finish					
2 Flutes					
1/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FN18**
5/32 in	13/32 in	—	3/16 in	YG-1 Tool Company	**55FP14**
3/16 in	9/32 in	2 in	3/16 in	YG-1 Tool Company	**55FP93**
1/4 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FR59**
5/16 in	9/16 in	—	3/8 in	YG-1 Tool Company	**55FT25**
3/8 in	9/16 in	—	3/8 in	YG-1 Tool Company	**55FT77**
1/2 in	13/16 in	—	1/2 in	YG-1 Tool Company	**55FV93**
5/8 in	1 1/8 in	—	5/8 in	YG-1 Tool Company	**55FW89**
3/4 in	1 5/16 in	5 in	3/4 in	YG-1 Tool Company	**55FX87**
1 in	1 5/8 in	—	1 in	YG-1 Tool Company	**55FZ54**
4 Flutes					
1/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FN21**
3/16 in	1/2 in	—	3/8 in	YG-1 Tool Company	**55FP72**
1/4 in	3 in	—	3/8 in	YG-1 Tool Company	**55FR62**
5/16 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT28**
3/8 in	3 in	—	3/8 in	YG-1 Tool Company	**55FT80**
1/2 in	1 in	—	1/2 in	YG-1 Tool Company	**55FV96**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW92**
3/4 in	1 5/8 in	—	3/4 in	YG-1 Tool Company	**55FX90**

Tool Reconditioning Solutions

Help extend the life of your tools. Just send in your worn drills, end mills, and other cutting tools, and we'll send them back to you cleaned, sharpened and ready to perform like new. Capabilities include:

- Reconditioning of most types of high-speed, cobalt and carbide rotary cutting tools
- CNC regrinding of end mills and high-performance tools

Brought to You by US Tool and Grainger.

Contact your **Grainger Representative** for more information, today!





Bright (Uncoated) Finish
2 Flutes
No. 19LV48

Miniature General Purpose Double-End Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Brand	Item No.
AlTin Finish						
2 Flutes						
1/32 in	1/16 in	1 1/2"	1/8 in	0 in	Monster	19LV68
3/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV72
1/16 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV70
5/64 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV69
3/32 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV73
7/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV71
4 Flutes						
1/32 in	1/16 in	1 1/2"	1/8 in	0 in	Monster	19LW21
3/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LW22
1/16 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LW24
5/64 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LW23
3/32 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LW25
7/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LW26

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
1/32 in	1/16 in	1 1/2"	1/8 in	0 in	Monster	19LV47
1/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ59
3/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV48
3/64 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ60
1/16 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV49
1/16 in	1/8 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ61
5/64 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV50
5/64 in	1/8 in	1 1/2"	1/8 in	1 3/8 in	SGS Tool	41CG26
5/64 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ62
3/32 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV51
3/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ63
7/64 in	7/32 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ64
7/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV52

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Brand	Item No.
3 Flutes						
1/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ75
1/16 in	1/8 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ76
3/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ77
4 Flutes						
1/32 in	1/16 in	1 1/2"	1/8 in	0 in	Monster	19LV89
1/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ87
3/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV90
3/64 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ88
1/16 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV91
1/16 in	1/8 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ89
1/16 in	1/8 in	1 1/2"	1/8 in	1 3/8 in	SGS Tool	41CG07
5/64 in	1/8 in	1 1/2"	1/8 in	0 in	Monster	19LV92
5/64 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ90
3/32 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV93
3/32 in	3 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ91
7/64 in	7/32 in	1 1/2"	1/8 in	Not Applicable	OSG	35CZ92
7/64 in	3 in	1 1/2"	1/8 in	0 in	Monster	19LV94

Corner-Radius End Mills

Corner-radius end mills have a square nose with slightly rounded corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. Sometimes called bull-nose end mills, they create a flat-bottomed groove with slightly rounded inside corners in milling applications that require a specific radius.

High-performance end mills are used in production milling.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.



AlTin Finish
5 Flutes
No. 48GW03

High-Performance Finishing Carbide Corner-Radius End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
AlTin Finish						
4 Flutes						
5/8 in	1 5/8 in	4 1/8 in	5/8 in	0.0300 in	Widia Hanita	287RP4
3/4 in	1 5/8 in	4 in	3/4 in	0.0300 in	Widia Hanita	287RP5
3/4 in	2 1/4 in	5 in	3/4 in	0.1200 in	Widia Hanita	287RR6
5 Flutes						
1/4 in	3/8 in	2 in	1/4 in	0.0600 in	Widia Hanita	430F46
1/4 in	1/2 in	4 in	1/4 in	0.0150 in	Widia Hanita	48JH13
1/4 in	5/8 in	4 in	1/4 in	0.0150 in	Widia Hanita	430G44
1/4 in	1 1/8 in	3 in	1/4 in	0.0600 in	Widia Hanita	430F54
1/4 in	1 in	3 in	1/4 in	0.0300 in	Widia Hanita	48JE69
3/8 in	1/2 in	2 in	3/8 in	0.1200 in	Widia Hanita	430F63
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0600 in	Widia Hanita	48JG70
3/8 in	1 in	2 1/2 in	3/8 in	0.1200 in	Widia Hanita	430F68
3/8 in	1 1/4 in	3 in	3/8 in	0.0300 in	Widia Hanita	287RD9
3/8 in	1 in	3 in	3/8 in	0.0150 in	Widia Hanita	430F70
3/8 in	1 1/2 in	4 in	3/8 in	0.0150 in	Widia Hanita	48JE74
1/2 in	3/8 in	5 in	1/2 in	0.1200 in	Widia Hanita	430G71
1/2 in	1 1/4 in	3 in	1/2 in	0.0900 in	Widia Hanita	430F85
1/2 in	1 in	3 in	1/2 in	0.1200 in	Widia Hanita	430F80
1/2 in	1 5/8 in	4 in	1/2 in	0.1200 in	Widia Hanita	430F90
1/2 in	2 1/8 in	4 in	1/2 in	0.1200 in	Widia Hanita	287RF2
1/2 in	2 in	5 in	1/2 in	0.0600 in	Widia Hanita	48JE80
5/8 in	3/4 in	3 in	5/8 in	0.0600 in	Widia Hanita	430F93
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.1200 in	Widia Hanita	430F98
5/8 in	1 5/8 in	3 1/2 in	5/8 in	0.0300 in	Widia Hanita	287RF6
5/8 in	1 1/4 in	4 in	5/8 in	0.0300 in	Widia Hanita	48GW03
5/8 in	2 1/2 in	5 1/4 in	5/8 in	0.0150 in	Widia Hanita	48JE82
5/8 in	2 5/8 in	5 in	5/8 in	0.0300 in	Widia Hanita	287RG1
3/4 in	1 3/4 in	4 in	3/4 in	0.1200 in	Widia Hanita	287RX0
3/4 in	1 5/8 in	4 in	3/4 in	0.0300 in	Widia Hanita	430G12
3/4 in	1 in	4 in	3/4 in	0.1200 in	Widia Hanita	430G88
3/4 in	1 1/2 in	6 in	3/4 in	0.1200 in	Widia Hanita	430G94
3/4 in	3 1/4 in	6 in	3/4 in	0.0300 in	Widia Hanita	287RH1
3/4 in	3 in	6 in	3/4 in	0.1200 in	Widia Hanita	48JE91
1 in	1 1/4 in	4 in	1 in	0.0150 in	Widia Hanita	430G97
1 in	1 1/4 in	4 in	1 in	1/4 in	Widia Hanita	430G24
1 in	1 3/4 in	5 1/2 in	1 in	0.0300 in	Widia Hanita	48GW07
1 in	2 1/4 in	5 in	1 in	0.0300 in	Widia Hanita	287RH5
1 in	3 1/4 in	6 in	1 in	1/4 in	Widia Hanita	430G31
1 in	4 in	7 in	1 in	0.1200 in	Widia Hanita	48JE97
1 1/4 in	5 in	8 in	1 1/4 in	0.0600 in	Widia Hanita	430G37

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
7 Flutes						
3/8 in	3/4 in	4 in	3/8 in	0.0150 in	Widia Hanita	48GW35
3/8 in	1 1/8 in	3 in	3/8 in	0.0150 in	Widia Hanita	48GW09
3/8 in	1 7/8 in	4 in	3/8 in	0.0150 in	Widia Hanita	48GW24
1/2 in	1 1/2 in	3 1/2 in	1/2 in	0.1200 in	Widia Hanita	48GW13
1/2 in	1 in	4 1/2 in	1/2 in	0.1200 in	Widia Hanita	48GW39
1/2 in	2 1/2 in	4 1/2 in	1/2 in	0.0300 in	Widia Hanita	48GW26
5/8 in	1 7/8 in	4 in	5/8 in	0.0600 in	Widia Hanita	48GW15
5/8 in	1 1/4 in	5 in	5/8 in	0.0300 in	Widia Hanita	48GW40
5/8 in	3 1/8 in	5 1/2 in	5/8 in	0.0300 in	Widia Hanita	48GW29
3/4 in	1 1/2 in	5 1/2 in	3/4 in	0.1200 in	Widia Hanita	48GW46
3/4 in	3 3/4 in	6 in	3/4 in	0.1200 in	Widia Hanita	48GW33
1 in	2 in	6 in	1 in	0.0600 in	Widia Hanita	48GW48
1 in	3 in	5 1/2 in	1 in	0.0600 in	Widia Hanita	48GW22
1 in	5 in	7 1/2 in	1 in	0.0600 in	Widia Hanita	48GW34
Bright (Uncoated) Finish						
3 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	0 in	Monster	55HL10
1/4 in	3/4 in	2 1/2 in	1/4 in	0 in	Monster	55HL14
3/8 in	1 in	2 1/2 in	3/8 in	0 in	Monster	55HL18
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0 in	Monster	55HL24
3/4 in	1 1/2 in	4 in	3/4 in	0 in	Monster	55HL62
1 in	1 1/2 in	4 in	1 in	0 in	Monster	55HL08
4 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	0 in	Monster	55HK69
3/16 in	5/8 in	2 in	3/16 in	0 in	Monster	55HK71
1/4 in	3/4 in	2 1/2 in	1/4 in	0 in	Monster	55HK73
3/8 in	1 in	2 1/2 in	3/8 in	0 in	Monster	55HK77
1/2 in	1 in	3 in	1/2 in	0 in	Monster	55HK81
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0 in	Monster	55HK83
3/4 in	1 1/2 in	4 in	3/4 in	0 in	Monster	55HL06
1 in	1 1/2 in	1 1/2 in	1 in	0 in	Monster	55HK65
TiAlN Finish						
4 Flutes						
1/8 in	3/8 in	1 1/2 in	1/8 in	0.0100 in	OSG	30L659
1/8 in	1/2 in	1 1/2 in	1/8 in	0.0100 in	Cleveland	33GD65
3/16 in	5/8 in	2 in	3/16 in	0.0300 in	Widia Hanita	430H21
3/16 in	3/4 in	2 1/2 in	3/16 in	0.0100 in	Cleveland	33GD71
1/4 in	7/16 in	2 1/2 in	1/4 in	0.0150 in	OSG	30L663

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
1/4 in	1/2 in	2 in	1/4 in	0.0200 in	Cleveland	33GD73
1/4 in	3/4 in	2 1/2 in	1/4 in	0.0150 in	OSG	30L665
3/8 in	1/2 in	2 1/2 in	3/8 in	0.0300 in	OSG	30L670
3/8 in	5/8 in	2 in	3/8 in	0.0200 in	Cleveland	33GD87
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0150 in	OSG	30L678
3/8 in	1 in	2 1/2 in	3/8 in	0.0150 in	Widia Hanita	430H69
3/8 in	1 1/8 in	3 in	3/8 in	0.0200 in	Cleveland	33GD91
3/8 in	2 in	4 in	3/8 in	0.0200 in	Cleveland	33GD93
1/2 in	1/2 in	2 1/2 in	1/2 in	0.0200 in	Cleveland	33GE01
1/2 in	5/8 in	2 1/2 in	1/2 in	0.0300 in	OSG	30L693
1/2 in	5/8 in	4 in	1/2 in	0.0600 in	Widia Hanita	287RM2
1/2 in	1 1/4 in	3 1/2 in	1/2 in	0.0150 in	OSG	30L696
1/2 in	1 in	3 in	1/2 in	0.0600 in	OSG	30L686
1/2 in	1 1/4 in	3 1/2 in	1/2 in	1/8 in	OSG	30L692
1/2 in	2 in	4 in	1/2 in	0.0300 in	Cleveland	33GE15
5/8 in	3/4 in	3 in	5/8 in	0.0300 in	Cleveland	33GE20
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0900 in	Widia Hanita	430H46
3/4 in	7/8 in	3 in	3/4 in	0.0300 in	Cleveland	33GE31
3/4 in	1 in	3 in	3/4 in	0.0300 in	Cleveland	33GE33
3/4 in	1 1/2 in	4 in	3/4 in	0.0300 in	Widia Hanita	430H50
3/4 in	1 5/8 in	4 in	3/4 in	0.0200 in	OSG	30L725
3/4 in	2 1/4 in	5 in	3/4 in	0.0600 in	OSG	30L726
1 in	1 1/2 in	4 in	1 in	0.0300 in	OSG	30L651
1 in	1 1/8 in	5 1/2 in	1 in	0.0300 in	Widia Hanita	287RM7
1 in	2 1/4 in	5 in	1 in	1/8 in	Cleveland	33GE53
1 in	3 in	5 in	1 in	0.0300 in	Cleveland	33GE55
1 in	3 in	5 in	1 in	1/8 in	Cleveland	33GE58
5 Flutes						
3/16 in	7/16 in	2 in	3/16 in	0.0300 in	OSG	30M226
3/16 in	5/8 in	2 1/4 in	3/16 in	0.0150 in	OSG	30M227
1/4 in	3/8 in	2 in	1/4 in	0.0150 in	OSG	30M232
3/8 in	1/2 in	2 in	3/8 in	0.0150 in	OSG	30M245
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0300 in	OSG	30M240
1/2 in	1 1/4 in	3 1/2 in	1/2 in	0.1200 in	OSG	30M264
5/8 in	3/4 in	3 in	5/8 in	0.0300 in	OSG	30M293
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0900 in	OSG	30M291
3/4 in	1 1/2 in	4 in	3/4 in	0.0300 in	OSG	30M312
3/4 in	1 1/8 in	4 in	3/4 in	0.1200 in	OSG	30M319
1 in	1 1/2 in	4 in	1 in	0.0300 in	OSG	30M201

High-Performance Roughing/Finishing Carbide Corner-Radius End Mills



nACRo Finish
5 Flute
No. 54EX48

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
AlTin Finish						
4 Flutes						
1/8 in	3/8 in	1 1/2 in	1/8 in	0.0150 in	SGS Tool	**41CG61**
3/16 in	5/8 in	2 in	3/16 in	0.010 in	Micro 100	**14M961**
1/4 in	1/2 in	4 in	1/4 in	0.020 in	Micro 100	**14N074**
1/4 in	3/4 in	2 1/2 in	1/4 in	0.020 in	Micro 100	**14M963**
1/4 in	1 1/8 in	3 in	1/4 in	0.020 in	Micro 100	**14N056**
3/8 in	3/4 in	4 in	3/8 in	0.020 in	Micro 100	**14N078**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.020 in	Micro 100	**14M967**
3/8 in	1 in	2 1/2 in	3/8 in	0.3000 in	SGS Tool	**41CD15**
3/8 in	1 1/4 in	3 in	3/8 in	0.020 in	Micro 100	**14N060**
3/8 in	1 3/4 in	4 in	3/8 in	0.0450 in	SGS Tool	**41AZ04**
1/2 in	5/8 in	3 in	1/2 in	0.030 in	Micro 100	**14N012**
1/2 in	1 1/4 in	3 1/4 in	1/2 in	0.4000 in	SGS Tool	**41AX19**
1/2 in	1 in	3 in	1/2 in	0.030 in	Micro 100	**14M971**
1/2 in	2 1/4 in	4 1/2 in	1/2 in	0.030 in	Micro 100	**14N064**
9/16 in	1 1/8 in	3 1/2 in	9/16 in	0.3000 in	SGS Tool	**41AX27**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.030 in	Micro 100	**14M973**
5/8 in	2 1/4 in	5 in	5/8 in	0.030 in	Micro 100	**14N066**
3/4 in	1 1/2 in	4 in	3/4 in	0.030 in	Micro 100	**14M975**
3/4 in	2 1/4 in	5 in	3/4 in	0.4000 in	SGS Tool	**41AV13**
3/4 in	3 in	6 in	3/4 in	0.4000 in	SGS Tool	**41AU63**
1 in	1 1/2 in	4 in	1 in	0.030 in	Micro 100	**14M957**
4.000mm	11.00mm	57.0mm	6.000mm	1.00mm	Micro 100	**14T397**
5.000mm	13.00mm	57.0mm	6.000mm	1.00mm	Micro 100	**14T404**
6.000mm	13.00mm	57.0mm	6.000mm	0.50mm	Micro 100	**14T408**
8.000mm	19.00mm	75.0mm	8.000mm	0.50mm	Micro 100	**14T416**
10.000mm	12.00mm	100.0mm	10.000mm	0.60mm	Micro 100	**14N096**
10.000mm	22.00mm	80.0mm	10.000mm	0.50mm	Micro 100	**14T424**
12.000mm	26.00mm	83.0mm	12.000mm	0.60mm	Micro 100	**14M989**
20.000mm	38.00mm	125.0mm	20.000mm	1.00mm	Micro 100	**14G199**
5 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	0.010 in	Micro 100	**16E944**
1/4 in	3/4 in	2 1/2 in	1/4 in	0.0600 in	Widia Hanita	**48GV02**
3/8 in	1 in	2 1/2 in	3/8 in	0.1000 in	SGS Tool	**41AZ78**
1/2 in	1 in	3 in	1/2 in	0.010 in	Micro 100	**16F009**
3/4 in	1 1/2 in	5 1/2 in	3/4 in	0.0300 in	Widia Hanita	**48JH29**
1 in	1 1/4 in	7 in	1 in	1/4 in	Monster	**55JD38**
6 Flutes						
1/4 in	17/32 in	3 1/2 in	1/4 in	0.6000 in	SGS Tool	**41AX94**
EXO Finish						
3 Flutes						
4.00mm	8.00mm	70.00mm	6.00mm	1.00mm	OSG	**34ZW86**
8.00mm	16.00mm	90.00mm	8.00mm	2.00mm	OSG	**34ZW89**
10.00mm	20.00mm	100.00mm	10.00mm	2.00mm	OSG	**34ZW90**
12.00mm	24.00mm	120.00mm	12.00mm	2.00mm	OSG	**34ZW91**
16.00mm	32.00mm	130.00mm	16.00mm	3.00mm	OSG	**34ZW92**
20.00mm	40.00mm	150.00mm	20.00mm	3.00mm	OSG	**34ZW93**
5 Flutes						
1/4 in	5/8 in	2 1/2 in	1/4 in	0.0150 in	OSG	**34ZT89**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0600 in	OSG	**34ZT97**
1/2 in	1 1/4 in	3 1/2 in	1/2 in	0.1200 in	OSG	**34ZU06**
1/2 in	1 in	3 in	1/2 in	0.0600 in	OSG	**34ZU01**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.1200 in	OSG	**34ZU10**
1 in	1 1/2 in	4 in	1 in	0.0300 in	OSG	**34ZT85**
GMX-35 Finish						
4 Flutes						
3/16 in	5/8 in	2 in	3/16 in	0.0150 in	Gorilla Mill	**36PK21**
1/4 in	1/2 in	2 in	1/4 in	0.0150 in	Gorilla Mill	**36PJ73**
1/4 in	1 1/4 in	3 in	1/4 in	0.0150 in	Gorilla Mill	**36PJ71**
5/16 in	1 1/2 in	4 in	5/16 in	0.0150 in	Gorilla Mill	**36PL34**
3/8 in	2 in	4 in	3/8 in	0.0150 in	Gorilla Mill	**36PL09**
1/2 in	5/8 in	2 1/2 in	1/2 in	0.0600 in	Gorilla Mill	**36PJ36**
3/4 in	1 1/2 in	4 in	3/4 in	0.0600 in	Gorilla Mill	**36PK47**
12.00mm	32.00mm	76.00mm	12.00mm	1.00mm	Gorilla Mill	**36PH90**
5 Flutes						
3/8 in	5/8 in	2 in	3/8 in	0.0150 in	Gorilla Mill	**36PL04**
1/2 in	1 1/4 in	3 in	1/2 in	0.0150 in	Gorilla Mill	**36PJ24**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0300 in	Gorilla Mill	**36PL62**
5/8 in	3 in	6 in	5/8 in	0.0300 in	Gorilla Mill	**36PL84**
3/4 in	4 in	7 in	3/4 in	0.0300 in	Gorilla Mill	**36PK78**
nACRo Finish						
5 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	0.020 in	Micro 100	**54EX18**
1/4 in	1 1/8 in	3 in	1/4 in	0.020 in	Micro 100	**54EX72**
3/8 in	5/8 in	2 1/2 in	3/8 in	0.020 in	Micro 100	**54EY03**
3/8 in	3/4 in	4 in	3/8 in	0.020 in	Micro 100	**54EX62**
1/2 in	5/8 in	3 in	1/2 in	0.060 in	Micro 100	**54EY07**
1/2 in	1 in	3 in	1/2 in	0.030 in	Micro 100	**54EX24**
1/2 in	1 3/4 in	4 1/2 in	1/2 in	1/8 in	Micro 100	**54EX84**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.060 in	Micro 100	**54EX32**
3/4 in	1 1/2 in	4 in	3/4 in	0.030 in	Micro 100	**54EX38**
4.000mm	11.00mm	50.0mm	4.000mm	0.30mm	Micro 100	**54EX48**
6.000mm	10.00mm	57.0mm	6.000mm	0.50mm	Micro 100	**54EX90**
8.000mm	19.00mm	63.0mm	8.000mm	0.50mm	Micro 100	**54EX52**
10.000mm	19.00mm	72.0mm	10.000mm	0.50mm	Micro 100	**54EX94**
12.000mm	26.00mm	83.0mm	12.000mm	0.50mm	Micro 100	**54EX56**

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
TiAlN Finish						
4 Flutes						
1/8 in	1/2 in	2 in	1/8 in	0.0150 in	Widia Hanita	**48JA61**
3/16 in	5/8 in	2 in	3/16 in	0.0200 in	OSG	**35CL99**
1/4 in	3/8 in	2 in	1/4 in	0.0300 in	Widia Hanita	**48JC66**
1/4 in	3/8 in	4 in	1/4 in	0.0150 in	OSG	**35CH58**
1/4 in	3/4 in	2 1/2 in	1/4 in	0.0150 in	Widia Hanita	**48JA68**
1/4 in	1 1/4 in	3 1/4 in	1/4 in	0.0150 in	Widia Hanita	**48JC18**
1/4 in	1 3/4 in	4 in	1/4 in	0.0300 in	Widia Hanita	**48JC42**
3/8 in	1/2 in	4 in	3/8 in	0.0600 in	Widia Hanita	**48JD93**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0600 in	Widia Hanita	**48JA80**
3/8 in	1 in	2 1/2 in	3/8 in	0.0200 in	OSG	**35CM05**
3/8 in	1 1/2 in	4 in	3/8 in	0.0300 in	Widia Hanita	**48JC23**
3/8 in	2 1/2 in	4 in	3/8 in	0.0300 in	Widia Hanita	**48JC46**
1/2 in	5/8 in	4 in	1/2 in	0.1200 in	Widia Hanita	**48JD97**
1/2 in	1 1/4 in	3 in	1/2 in	0.0150 in	Widia Hanita	**48JA88**
1/2 in	1 in	3 in	1/2 in	0.0600 in	OSG	**35CM09**
1/2 in	1 1/2 in	4 in	1/2 in	0.0600 in	Widia Hanita	**48JC91**
1/2 in	2 1/2 in	4 1/2 in	1/2 in	0.0300 in	Widia Hanita	**48JC93**
1/2 in	2 in	4 in	1/2 in	0.0300 in	Widia Hanita	**48JC27**
1/2 in	3 in	5 in	1/2 in	0.0300 in	Widia Hanita	**48JC50**
5/8 in	3/4 in	4 1/8 in	5/8 in	0.0600 in	OSG	**35CH68**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0300 in	Widia Hanita	**48JA95**
5/8 in	1 5/8 in	4 1/8 in	5/8 in	0.0600 in	Widia Hanita	**48JC97**
5/8 in	2 1/4 in	5 in	5/8 in	0.0600 in	Widia Hanita	**48JC31**
3/4 in	1/8 in	3 1/2 in	3/4 in	0.0300 in	Widia Hanita	**48JC85**
3/4 in	1 1/2 in	4 in	3/4 in	0.0300 in	Widia Hanita	**48JC02**
3/4 in	1 in	5 1/4 in	3/4 in	0.1200 in	Widia Hanita	**48JE07**
3/4 in	2 1/4 in	5 in	3/4 in	0.0300 in	Widia Hanita	**48JC34**
3/4 in	3 in	6 in	3/4 in	0.0300 in	Widia Hanita	**48JD01**
3/4 in	4 in	6 1/4 in	3/4 in	0.0300 in	Widia Hanita	**48JC54**
3/4 in	4 in	6 1/4 in	3/4 in	0.0600 in	Widia Hanita	**48JC55**
1 in	1 1/2 in	4 in	1 in	0.0900 in	OSG	**35CL96**
1 in	1 1/8 in	5 1/2 in	1 in	0.0300 in	OSG	**35CH53**
1 in	2 1/4 in	5 in	1 in	0.0600 in	Widia Hanita	**48JC39**
1 in	3 in	6 in	1 in	0.0300 in	Widia Hanita	**48JC58**
4.00mm	6.00mm	70.00mm	6.00mm	1.00mm	OSG	**35CN02**
4.00mm	11.00mm	70.00mm	6.00mm	0.20mm	OSG	**35CM45**
5.00mm	7.50mm	80.00mm	6.00mm	1.00mm	OSG	**35CN05**
5.00mm	13.00mm	80.00mm	6.00mm	0.20mm	OSG	**35CM48**
6.00mm	9.00mm	60.00mm	6.00mm	0.50mm	OSG	**35CJ65**
6.00mm	9.00mm	60.00mm	6.00mm	1.00mm	OSG	**35CJ66**
6.00mm	13.00mm	80.00mm	6.00mm	2.00mm	OSG	**35CM55**
8.00mm	12.00mm	75.00mm	8.00mm	0.50mm	OSG	**35CJ67**
8.00mm	12.00mm	100.00mm	8.00mm	2.00mm	OSG	**35CN14**
8.00mm	19.00mm	100.00mm	8.00mm	2.00mm	OSG	**35CM59**
10.00mm	15.00mm	100.00mm	10.00mm	0.50mm	OSG	**35CN15**
10.00mm	22.00mm	100.00mm	10.00mm	3.00mm	OSG	**35CM64**
12.00mm	18.00mm	102.00mm	12.00mm	0.50mm	OSG	**35CJ70**
12.00mm	18.00mm	102.00mm	12.00mm	1.00mm	OSG	**35CJ71**
12.00mm	26.00mm	110.00mm	12.00mm	3.00mm	OSG	**35CM69**
5 Flutes						
3/16 in	7/16 in	2 in	3/16 in	0.0150 in	OSG	**35CJ10**
3/16 in	3/4 in	2 1/2 in	3/16 in	0.0100 in	Cleveland	**33GG27**
1/4 in	1/2 in	2 in	1/4 in	0.0200 in	Cleveland	**33GG29**
1/4 in	1 1/8 in	3 in	1/4 in	0.0100 in	Cleveland	**33GG32**
1/4 in	1 1/8 in	3 in	1/4 in	0.0200 in	Cleveland	**33GG33**
3/8 in	3/8 in	2 in	3/8 in	0.0300 in	Cleveland	**33GG41**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.0200 in	Cleveland	**33GG45**
3/8 in	1 1/8 in	3 in	3/8 in	0.0200 in	Cleveland	**33GG47**
3/8 in	2 in	4 in	3/8 in	0.0200 in	Cleveland	**33GG49**
1/2 in	5/8 in	2 1/2 in	1/2 in	0.0300 in	Cleveland	**33GG56**
1/2 in	1 1/4 in	3 in	1/2 in	0.0200 in	Cleveland	**33GG63**
1/2 in	1 in	3 in	1/2 in	1/8 in	Cleveland	**33GG61**
1/2 in	2 in	4 in	1/2 in	1/8 in	Cleveland	**33GG72**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0300 in	Cleveland	**33GG76**
3/4 in	1 in	3 in	3/4 in	0.0300 in	Cleveland	**33GG86**
3/4 in	2 1/4 in	5 in	3/4 in	0.0600 in	Cleveland	**33GG94**
1 in	1 1/2 in	4 in	1 in	0.0300 in	Cleveland	**33GG98**
1 in	2 1/4 in	5 in	1 in	0.0600 in	Cleveland	**33GH05**
1 in	3 in	6 in	1 in	1/8 in	Cleveland	**33GH12**

For more information on end mills, see page 2277.

See page 2292 for more information on corner-radius end mills.



WXL Finish
2 Flutes
No. 35AW82

MICRO 100 super carbide tools

KYOCERA

Miniature High-Performance Roughing/Finishing Carbide Corner-Radius End Mills

Milling Dia.	Length of Cut	Overall Length	Neck Length	Corner Radius	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
0.50mm	0.30mm	45.00mm	1.50mm	0.05mm	OSG	**35CD18**
0.50mm	0.30mm	45.00mm	2.50mm	0.10mm	OSG	**35CD30**
1/64 in	1/64 in	1 1/2 in	7/32 in	0.002 in	Micro 100	**54ET83**
1/64 in	1/32 in	1 1/2 in	5/16 in	0.010 in	Micro 100	**54EU06**
1/32 in	3/64 in	1 1/2 in	5/16 in	0.010 in	Micro 100	**54EU22**
1/32 in	3/64 in	1 1/2 in	11/32 in	0.010 in	Micro 100	**54EU38**
1/32 in	3/64 in	1 1/2 in	3/16 in	0.005 in	Micro 100	**54EU48**
1/32 in	3/64 in	1 1/2 in	7/16 in	0.010 in	Micro 100	**54EU54**
1/32 in	1/16 in	1 1/2 in	13/32 in	0.010 in	Micro 100	**54EU70**
3/64 in	1/16 in	1 1/2 in	15/32 in	0.010 in	Micro 100	**54EV03**
3/64 in	5/64 in	1 1/2 in	1/4 in	1/64 in	Micro 100	**54EV09**
3/64 in	5/64 in	2 in	21/32 in	0.005 in	Micro 100	**54EV29**
1/16 in	7/64 in	1 1/2 in	9/32 in	1/64 in	Micro 100	**54EV69**
1/16 in	7/64 in	2 in	25/32 in	0.005 in	Micro 100	**54EV89**
5/64 in	1/8 in	1 1/2 in	1/8 in	0.005 in	Micro 100	**54EW32**
5/64 in	1/8 in	2 in	3/4 in	1/64 in	Micro 100	**54EW54**
3/32 in	1/8 in	1 1/2 in	1/4 in	0.010 in	Micro 100	**54EW64**
3/32 in	1/8 in	2 in	5/8 in	0.005 in	Micro 100	**54EW80**
1/8 in	1/8 in	2 in	1/4 in	1/64 in	Micro 100	**54EX09**
1.00mm	0.60mm	45.00mm	5.00mm	0.30mm	OSG	**35CD33**
1.50mm	0.90mm	50.00mm	7.50mm	0.30mm	OSG	**35CD36**
2.00mm	1.20mm	50.00mm	10.00mm	0.20mm	OSG	**35CD38**
3.00mm	1.80mm	50.00mm	6.00mm	0.30mm	OSG	**35CD27**
EXO Finish						
3 Flutes						
2.00mm	4.00mm	60.00mm	6.00mm	0.50mm	OSG	**34ZW84**
3.00mm	6.00mm	70.00mm	9.00mm	0.80mm	OSG	**34ZW85**
nACRo Finish						
2 Flutes						
1/64 in	1/64 in	1 1/2 in	7/32 in	0.002 in	Micro 100	**54ET84**
1/64 in	1/32 in	1 1/2 in	9/16 in	0.003 in	Micro 100	**54ET90**
1/64 in	1/32 in	1 1/2 in	1/8 in	0.010 in	Micro 100	**54EU03**
1/32 in	3/64 in	1 1/2 in	5/16 in	0.010 in	Micro 100	**54EU23**
1/32 in	3/64 in	1 1/2 in	11/32 in	0.010 in	Micro 100	**54EU39**
1/32 in	3/64 in	1 1/2 in	3/16 in	0.010 in	Micro 100	**54EU51**
1/32 in	1/16 in	1 1/2 in	13/32 in	0.010 in	Micro 100	**54EU71**
3/64 in	1/16 in	1 1/2 in	15/32 in	0.010 in	Micro 100	**54EV04**
3/64 in	5/64 in	1 1/2 in	1/4 in	0.010 in	Micro 100	**54EV26**
3/64 in	5/64 in	2 in	21/32 in	1/64 in	Micro 100	**54EV34**
1/16 in	7/64 in	1 1/2 in	9/32 in	0.005 in	Micro 100	**54EV66**
3/32 in	1/8 in	2 in	5/8 in	0.005 in	Micro 100	**54EW81**
1/8 in	1/8 in	2 in	7/8 in	0.005 in	Micro 100	**54EW87**
TiAlN Finish						
4 Flutes						
3.00mm	4.50mm	60.00mm	14.00mm	0.20mm	OSG	**35CM97**
TiN Finish						
4 Flutes						
1/8 in	1/2 in	1 1/2 in	N/A	0.0100 in	Kyocera	**414A74**
WXL Finish						
2 Flutes						
0.60mm	0.90mm	50.00mm	2.00mm	0.10mm	OSG	**35AW82**
0.80mm	1.20mm	50.00mm	2.60mm	0.10mm	OSG	**35AW83**
1.40mm	2.10mm	50.00mm	3.70mm	0.10mm	OSG	**35AW86**
1.50mm	2.30mm	50.00mm	4.00mm	0.10mm	OSG	**35AW87**
2.00mm	3.00mm	50.00mm	5.20mm	0.10mm	OSG	**35AW90**
2.50mm	3.70mm	50.00mm	5.20mm	0.10mm	OSG	**35AW91**
WXS Finish						
2 Flutes						
0.50mm	0.40mm	50.00mm	5.00mm	0.05mm	OSG	**35AY89**
0.60mm	0.48mm	50.00mm	4.00mm	0.10mm	OSG	**35AY97**
0.80mm	0.65mm	50.00mm	4.00mm	0.20mm	OSG	**35AY99**
1.00mm	0.80mm	50.00mm	8.00mm	0.30mm	OSG	**35AZ22**
1.20mm	1.00mm	50.00mm	10.00mm	0.20mm	OSG	**35AZ27**
1.50mm	1.20mm	50.00mm	8.00mm	0.30mm	OSG	**35AZ33**
2.00mm	1.60mm	50.00mm	10.00mm	0.30mm	OSG	**35AZ48**
2.00mm	1.60mm	70.00mm	25.00mm	0.50mm	OSG	**35AZ58**
2.50mm	2.20mm	50.00mm	10.00mm	0.20mm	OSG	**35AZ59**
3.00mm	2.50mm	60.00mm	12.00mm	0.20mm	OSG	**35AZ66**
3.00mm	2.50mm	60.00mm	16.00mm	0.20mm	OSG	**35AZ67**
3 Flutes						
2.00mm	0.80mm	60.00mm	5.00mm	0.50mm	OSG	**35AY77**
3.00mm	4.50mm	80.00mm	20.00mm	0.80mm	OSG	**34ZW24**
4 Flutes						
0.80mm	50.00mm	50.00mm	4.00mm	0.10mm	OSG	**34ZV53**
1.00mm	50.00mm	50.00mm	10.00mm	0.10mm	OSG	**34ZV59**
1.50mm	50.00mm	50.00mm	6.00mm	0.20mm	OSG	**34ZV72**
2.00mm	50.00mm	50.00mm	8.00mm	0.30mm	OSG	**34ZV78**
3.00mm	5.00mm	60.00mm	9.00mm	0.50mm	OSG	**35AY46**



TiAlN
4 Flutes
No. 48JC99

WIDIA HANITA

High-Performance Roughing/Finishing Carbide Corner-Chamfer End Mills

High-performance roughing/finishing carbide corner-chamfer end mills are used in production milling. They each have a square nose with slightly angled corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. They create a flat-bottomed groove with slightly chamfered inside corners in milling applications that do not require a specific radius size. Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Chamfer Width	Item No.
TiAlN					
4 Flutes					
1/8"	1/2"	1 1/2"	1/8"	0.0100"	**30M178**
	1/8"	1 1/2"	1/8"	0.0100"	**30M179**
3/16"	5/8"	2 1/4"	3/16"	0.0100"	**30M181**
	5/16"	2"	3/16"	0.0100"	**30M180**
1/4"	3/4"	2 1/2"	1/4"	0.0160"	**30M183**
	3/8"	2"	1/4"	0.0160"	**30M182**
3/8"	1/2"	2"	3/8"	0.0200"	**30M186**
	1/8"	2 1/2"	3/8"	0.0200"	**30M187**
1/2"	1"	3"	1/2"	0.0200"	**30M191**
	1 1/2"	4"	1/2"	0.0200"	**30M193**
	5/8"	2 1/2"	1/2"	0.0200"	**30M190**
5/8"	1 1/4"	3 1/2"	5/8"	0.0200"	**30M195**
	3/4"	3"	5/8"	0.0200"	**30M194**
3/4"	3"	6"	3/4"	0.0200"	**48JC99**
	1 1/2"	4"	3/4"	0.0200"	**30M198**
	1 3/8"	4"	3/4"	0.0200"	**30M199**
	1/8"	3 1/2"	3/4"	0.0200"	**30M197**
1"	2"	5"	1"	0.0200"	**30M176**
	1 1/2"	4"	1"	0.0200"	**30M175**



AlTiN
4 Flutes
No. 45RM91

MONSTER

WIDIA HANITA

General Purpose Finishing Carbide Corner-Chamfer End Mills

General purpose finishing carbide corner-chamfer end mills are intended for milling a wide variety of common materials. They each have a square nose with slightly angled corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. They create a flat-bottomed groove with slightly chamfered inside corners in milling applications that do not require a specific radius size. Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Chamfer Width	Brand	Item No.
AlTiN						
3 Flutes						
1/8"	1/4"	2 1/2"	1/8"	0.0030"	Monster	**55HJ40**
	3/8"	1 1/2"	1/8"	0.0030"	Monster	**55HJ38**
	3/16"	1 1/2"	1/8"	0.0030"	Monster	**55HJ36**
4 Flutes						
1/8"	1/4"	2 1/2"	1/8"	0.0030"	Monster	**55HJ89**
	3/8"	1 1/2"	1/8"	0.0030"	Monster	**55HJ85**
	3/16"	1 1/2"	1/8"	0.0030"	Monster	**55HJ83**
3/8"	1/2"	2"	3/8"	0.0200"	Widia Hanita	**45RM91**
1/2"	1"	3"	1/2"	0.0200"	Widia Hanita	**45RM86**
	1 1/2"	4"	1/2"	0.0200"	Widia Hanita	**45RM92**
7 Flutes						
10.00mm	50.00mm	100.00mm	10.00mm	0.50mm	Widia Hanita	**48KA58**
12.00mm	26.00mm	83.00mm	12.00mm	0.50mm	Widia Hanita	**48KA74**
	60.00mm	125.00mm	12.00mm	0.50mm	Widia Hanita	**48KA60**
16.00mm	32.00mm	100.00mm	16.00mm	0.50mm	Widia Hanita	**48KA76**
	80.00mm	141.00mm	16.00mm	0.50mm	Widia Hanita	**48KA64**
20.00mm	60.00mm	125.00mm	20.00mm	0.50mm	Widia Hanita	**48KA56**
	100.00mm	166.00mm	20.00mm	0.50mm	Widia Hanita	**48KA68**



AlTiN Finish
3 Flutes
No. 16G087

MICRO 100 super carbide tools

Double-End Straight-Shank Corner-Rounding End Mills

Double-end corner-rounding end mills have a straight shank with concave cutting edges on both ends. They create rounded outside edges on a workpiece in milling tasks and can accomplish more milling tasks than single-end end mills before they need to be replaced.

Milling Dia.	Corner Radius	Overall Length	Shank Dia.	Item No.
AlTiN Finish				
3 flutes				
0.0600"	0.0100"	2"	1/8"	**16G027**
0.0600"	0.0200"	2"	1/8"	**16G031**
0.0600"	0.0250"	2"	1/8"	**16G033**
0.0600"	0.0300"	2"	1/8"	**16G035**
0.0600"	0.0350"	2"	3/16"	**16G039**
0.0600"	0.0400"	2"	3/16"	**16G041**
0.0600"	0.0450"	2"	3/16"	**16G043**
0.0600"	0.0500"	2"	3/16"	**16G047**
0.0600"	0.0550"	2"	3/16"	**16G049**
0.0600"	0.0600"	2"	3/16"	**16G051**
0.0600"	0.0700"	2 1/2"	1/4"	**16G055**
0.0600"	0.0750"	2 1/2"	1/4"	**16G057**
0.0600"	0.0800"	2 1/2"	1/4"	**16G061**
0.0600"	0.0900"	2 1/2"	1/4"	**16G063**
0.0600"	0.0938"	2 1/2"	1/4"	**16G065**
0.0600"	0.1000"	2 1/2"	5/16"	**16G067**
0.0600"	1/8"	2 1/2"	5/16"	**16G071**
0.0600"	1/16"	2"	3/16"	**16G053**
0.0600"	1/32"	2"	1/8"	**16G037**
0.0600"	3/64"	2"	3/16"	**16G045**
0.0600"	5/32"	2 1/2"	3/8"	**16G075**
0.0600"	5/64"	2 1/2"	1/4"	**16G059**
0.0600"	7/64"	2 1/2"	5/16"	**16G069**
0.0600"	9/64"	2 1/2"	3/8"	**16G073**
0.1200"	0.1718"	3"	1/2"	**16G077**
0.1200"	0.2188"	3 1/2"	5/8"	**16G083**
0.1200"	13/64"	3 1/2"	5/8"	**16G081**
0.1200"	15/64"	3 1/2"	5/8"	**16G085**
0.1200"	1/4"	3 1/2"	5/8"	**16G087**
0.1200"	3/8"	4"	1"	**16G023**
0.1200"	3/16"	3"	1/2"	**16G079**
0.1200"	5/16"	4"	3/4"	**16G093**
0.1200"	9/32"	4"	1"	**16G025**
Bright (Uncoated) Finish				
3 flutes				
0.0600"	0.0100"	2"	1/8"	**16G026**
0.0600"	0.0200"	2"	1/8"	**16G030**
0.0600"	0.0250"	2"	1/8"	**16G032**
0.0600"	0.0300"	2"	1/8"	**16G034**
0.0600"	0.0350"	2"	3/16"	**16G038**
0.0600"	0.0400"	2"	3/16"	**16G040**
0.0600"	0.0450"	2"	3/16"	**16G042**
0.0600"	0.0500"	2"	3/16"	**16G046**
0.0600"	0.0550"	2"	3/16"	**16G048**
0.0600"	0.0600"	2"	3/16"	**16G050**
0.0600"	0.0700"	2 1/2"	1/4"	**16G054**
0.0600"	0.0750"	2 1/2"	1/4"	**16G056**
0.0600"	0.0800"	2 1/2"	1/4"	**16G060**
0.0600"	0.0900"	2 1/2"	1/4"	**16G062**
0.0600"	0.0938"	2 1/2"	1/4"	**16G064**
0.0600"	0.1000"	2 1/2"	5/16"	**16G066**
0.0600"	1/8"	2 1/2"	5/16"	**16G070**
0.0600"	1/16"	2"	3/16"	**16G052**
0.0600"	1/32"	2"	1/8"	**16G036**
0.0600"	1/64"	2"	1/8"	**16G028**
0.0600"	3/64"	2"	3/16"	**16G044**
0.0600"	5/32"	2 1/2"	3/8"	**16G074**
0.0600"	5/64"	2 1/2"	1/4"	**16G058**
0.0600"	7/64"	2 1/2"	5/16"	**16G068**
0.0600"	9/64"	2 1/2"	3/8"	**16G072**
0.1200"	0.1718"	3"	1/2"	**16G076**
0.1200"	0.2188"	3 1/2"	5/8"	**16G082**
0.1200"	13/64"	3 1/2"	5/8"	**16G080**
0.1200"	15/64"	3 1/2"	5/8"	**16G084**
0.1200"	1/4"	3 1/2"	5/8"	**16G086**
0.1200"	3/8"	4"	1"	**16G022**
0.1200"	3/16"	3"	1/2"	**16G078**
0.1200"	5/16"	4"	3/4"	**16G092**
0.1200"	9/32"	4"	3/4"	**16G088**
0.1200"	9/32"	4"	1"	**16G024**

Carbide Drill Mills

MONSTER | MICRO 100 | WIDIA HANITA

Drill mills have a nose with a pointed tip and can drill holes or create angled features in a piece of stock. They are used for slotting, side profiling, chamfering, spotting, countersinking, and cutting grooves in milling tasks.

No. of Flutes	Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
82°						
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**55HF88**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**55HF89**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**55HF90**
2 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**55HF92**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**55HF94**
90°						
2 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Micro 100	**16T572**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Micro 100	**16T576**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Micro 100	**16T580**
2 Flutes	5⁄16"	0.813"	2 1⁄2"	5⁄16"	Micro 100	**16T584**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Micro 100	**16T588**
2 Flutes	1⁄2"	1"	3"	1⁄2"	Micro 100	**16T596**
2 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Micro 100	**16T601**
2 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Micro 100	**16T605**
2 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T611**
2 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T619**
2 Flutes	5.000mm	13.00mm	57.0mm	6.000mm	Micro 100	**16T627**
2 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T635**
2 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T643**
2 Flutes	10.000mm	25.00mm	72.0mm	10.000mm	Micro 100	**16T651**
2 Flutes	12.000mm	30.00mm	83.0mm	12.000mm	Micro 100	**16T659**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Micro 100	**16T574**
4 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Micro 100	**16T578**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Micro 100	**16T582**
4 Flutes	5⁄16"	0.813"	2 1⁄2"	5⁄16"	Micro 100	**16T586**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Micro 100	**16T590**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Micro 100	**16T598**
4 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Micro 100	**16T603**
4 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Micro 100	**16T607**
4 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T615**
4 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T623**
4 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T639**
4 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T647**
4 Flutes	10.000mm	25.00mm	72.0mm	10.000mm	Micro 100	**16T655**
120°						
2 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T609**
2 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T617**
2 Flutes	5.000mm	13.00mm	57.0mm	6.000mm	Micro 100	**16T625**
2 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T633**
2 Flutes	12.000mm	30.00mm	83.0mm	12.000mm	Micro 100	**16T657**
4 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T613**
4 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T621**
4 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T645**
Bright (Uncoated) Finish						
60°						
2 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**19LJ56**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**19LJ58**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ60**
2 Flutes	5⁄16"	13⁄16"	2 1⁄2"	5⁄16"	Monster	**19LJ62**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LJ64**
2 Flutes	7⁄16"	1"	2 3⁄4"	7⁄16"	Monster	**19LJ66**
2 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LJ68**
2 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Monster	**19LJ70**
2 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Monster	**19LJ72**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**19LJ74**
4 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**19LJ76**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ78**
4 Flutes	5⁄16"	13⁄16"	2 1⁄2"	5⁄16"	Monster	**19LJ80**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LJ82**
4 Flutes	7⁄16"	1"	2 3⁄4"	7⁄16"	Monster	**19LJ84**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LJ86**
4 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Monster	**19LJ88**
4 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Monster	**19LJ90**
82°						
2 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**19LJ98**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**55HF87**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ99**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LK01**

Bright (Uncoated) Finish
2 Flutes
No. 19LJ56



No. of Flutes	Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
2 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**55HF91**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**55HF93**
4 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**19LK02**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LK04**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LK06**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LK08**
90°						
2 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Micro 100	**16T571**
2 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**19LJ19**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Micro 100	**16T575**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Widia Hanita	**2NHF7**
2 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**19LJ20**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Widia Hanita	**2NHF8**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Micro 100	**16T579**
2 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ21**
2 Flutes	5⁄16"	0.813"	2 1⁄2"	5⁄16"	Micro 100	**16T583**
2 Flutes	5⁄16"	13⁄16"	2 1⁄2"	5⁄16"	Monster	**19LJ22**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Widia Hanita	**2NHG1**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Micro 100	**16T587**
2 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LJ23**
2 Flutes	7⁄16"	1"	2 3⁄4"	7⁄16"	Monster	**19LJ24**
2 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LJ25**
2 Flutes	1⁄2"	1"	3"	1⁄2"	Micro 100	**16T595**
2 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Monster	**19LJ26**
2 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Micro 100	**16T604**
2 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Monster	**19LJ27**
2 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T610**
2 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T618**
2 Flutes	5.000mm	13.00mm	57.0mm	6.000mm	Micro 100	**16T626**
2 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T634**
2 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T642**
2 Flutes	10.000mm	25.00mm	72.0mm	10.000mm	Micro 100	**16T650**
2 Flutes	12.000mm	30.00mm	83.0mm	12.000mm	Micro 100	**16T658**
4 Flutes	3⁄32"	3⁄8"	1 1⁄2"	1⁄8"	Monster	**19LJ37**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Monster	**19LJ38**
4 Flutes	1⁄8"	1⁄2"	1 1⁄2"	1⁄8"	Micro 100	**16T573**
4 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Micro 100	**16T577**
4 Flutes	3⁄16"	5⁄8"	2"	3⁄16"	Monster	**19LJ39**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Micro 100	**16T581**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ40**
4 Flutes	5⁄16"	0.813"	2 1⁄2"	5⁄16"	Micro 100	**16T585**
4 Flutes	5⁄16"	13⁄16"	2 1⁄2"	5⁄16"	Monster	**19LJ41**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LJ42**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Micro 100	**16T589**
4 Flutes	7⁄16"	1"	2 3⁄4"	7⁄16"	Monster	**19LJ43**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Micro 100	**16T597**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LJ44**
4 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Micro 100	**16T602**
4 Flutes	5⁄8"	1 1⁄4"	3 1⁄2"	5⁄8"	Monster	**19LJ45**
4 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Micro 100	**16T606**
4 Flutes	3⁄4"	1 1⁄2"	4"	3⁄4"	Monster	**19LJ46**
4 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T614**
4 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T622**
4 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T638**
4 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T646**
4 Flutes	10.000mm	25.00mm	72.0mm	10.000mm	Micro 100	**16T654**
4 Flutes	12.000mm	30.00mm	83.0mm	12.000mm	Micro 100	**16T662**
120°						
2 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T608**
2 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T616**
2 Flutes	5.000mm	13.00mm	57.0mm	6.000mm	Micro 100	**16T624**
2 Flutes	6.000mm	16.00mm	57.0mm	6.000mm	Micro 100	**16T632**
2 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T640**
2 Flutes	10.000mm	25.00mm	72.0mm	10.000mm	Micro 100	**16T648**
2 Flutes	12.000mm	30.00mm	83.0mm	12.000mm	Micro 100	**16T656**
4 Flutes	1⁄4"	3⁄4"	2 1⁄2"	1⁄4"	Monster	**19LJ92**
4 Flutes	3⁄8"	1"	2 1⁄2"	3⁄8"	Monster	**19LJ94**
4 Flutes	1⁄2"	1"	3"	1⁄2"	Monster	**19LJ96**
4 Flutes	3.000mm	8.00mm	38.0mm	3.000mm	Micro 100	**16T612**
4 Flutes	4.000mm	11.00mm	50.0mm	4.000mm	Micro 100	**16T620**
4 Flutes	8.000mm	22.00mm	63.0mm	8.000mm	Micro 100	**16T644**

Keyway End Mills

YG | CLEVELAND

Keyway end mills make slots in parts so that key stock can be inserted into the slots when mating other components with the parts. These end mills are typically undersized, which means they create an undersized slot to ensure a snug, secure fit when key stock is inserted into the slot.

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
1⁄8 in	3⁄8 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GE44**
3⁄16 in	7⁄16 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GF73**
1⁄4 in	1⁄2 in	2 7⁄16 in	3⁄8 in	30 °	Cleveland	**438N58**
3⁄8 in	9⁄16 in	2 1⁄2 in	3⁄8 in	0 °	Cleveland	**438U19**
3⁄8 in	9⁄16 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GJ07**
1⁄2 in	1 in	3 in	1⁄2 in	15 °	YG-1 Tool Company	**55GK31**
5⁄8 in	13⁄16 in	3 7⁄16 in	5⁄8 in	15 °	YG-1 Tool Company	**55GL14**
5⁄8 in	1 5⁄16 in	3 3⁄4 in	5⁄8 in	0 °	Cleveland	**438U21**
3⁄4 in	1 5⁄16 in	3 7⁄8 in	3⁄4 in	0 °	Cleveland	**438U22**
3⁄4 in	1 5⁄16 in	3 9⁄16 in	3⁄4 in	15 °	YG-1 Tool Company	**55GM13**
1 in	1 5⁄8 in	4 1⁄2 in	1 in	0 °	Cleveland	**438U24**
1 1⁄2 in	1 5⁄8 in	4 1⁄2 in	1 1⁄4 in	30 °	Cleveland	**438N60**

TiN Finish
2 Flutes
No. 55GG63



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
TiCN Finish						
2 Flutes						
1⁄4 in	1⁄2 in	2 7⁄16 in	3⁄8 in	30 °	Cleveland	**438F90**
1 1⁄2 in	1 5⁄8 in	4 1⁄2 in	1 1⁄4 in	30 °	Cleveland	**438G06**
1 1⁄4 in	1 5⁄8 in	4 1⁄2 in	1 1⁄4 in	30 °	Cleveland	**438G04**
1 1⁄8 in	1 5⁄8 in	4 1⁄2 in	1 in	30 °	Cleveland	**438G03**
1 3⁄8 in	1 5⁄8 in	4 1⁄2 in	1 in	30 °	Cleveland	**438G05**
TiN Finish						
2 Flutes						
1⁄4 in	1⁄2 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GG63**
1⁄4 in	1⁄2 in	2 7⁄16 in	3⁄8 in	30 °	Cleveland	**438F74**
5⁄16 in	9⁄16 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GH44**
3⁄8 in	9⁄16 in	2 5⁄16 in	3⁄8 in	15 °	YG-1 Tool Company	**55GJ08**
1⁄2 in	1 in	3 in	1⁄2 in	15 °	YG-1 Tool Company	**55GK32**
5⁄8 in	13⁄16 in	3 7⁄16 in	5⁄8 in	15 °	YG-1 Tool Company	**55GL15**
3⁄4 in	1 5⁄16 in	3 7⁄8 in	3⁄4 in	30 °	Cleveland	**438F81**
7⁄8 in	1 1⁄2 in	4 1⁄8 in	7⁄8 in	30 °	Cleveland	**438F83**
1 1⁄2 in	1 5⁄8 in	4 1⁄2 in	1 1⁄4 in	30 °	Cleveland	**438F88**
1 1⁄8 in	1 5⁄8 in	4 1⁄2 in	1 in	30 °	Cleveland	**438F85**

For more information on end mills, see page 2277.

MONSTER

CLEVELAND



Bright (Uncoated) Finish
4 Flutes
No. 45XN34

Double-End Straight-Shank Chamfer Mills

Double-end chamfer mills have a straight shank with angled cutting edges on both ends and can accomplish more milling tasks than single-end chamfer mills before they need to be replaced. They are used to create chamfered or beveled edges, to debur edges, and to spot and countersink holes in one step prior to drilling.

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
1/8 in	60 °	—	1 1/2 in	1/8 in	Monster	**55HF95**
	90 °	—	1 1/2 in	1/8 in	Monster	**55HG03**
3/16 in	60 °	—	2 in	3/16 in	Monster	**55HF96**
	90 °	—	2 in	3/16 in	Monster	**55HG04**
1/4 in	60 °	—	2 3/8 in	1/4 in	Monster	**55HF97**
	90 °	—	2 1/2 in	1/4 in	Monster	**55HG05**
3/8 in	60 °	—	2 1/2 in	3/8 in	Monster	**55HF98**
	90 °	—	2 1/2 in	3/8 in	Monster	**55HG01**
	90 °	—	2 1/2 in	3/8 in	Monster	**55HG06**
1/2 in	60 °	—	3 in	1/2 in	Monster	**55HF99**
	90 °	—	3 in	1/2 in	Monster	**55HG07**
	90 °	—	3 in	1/2 in	Monster	**55HG02**
2 Flutes						
1/8 in	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XN27**
2 Flutes						
3/16 in	90 °	3/32 in	2 in	3/16 in	Monster	**45XN29**
1/4 in	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN31**
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	60 °	7/64 in	1 1/2 in	1/8 in	Monster	**45XN21**
	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XN26**
	90 °	1 1/2 in	1 1/2 in	1/8 in	Cleveland	**33FZ14**
3/16 in	60 °	5/32 in	2 in	3/16 in	Monster	**45XN22**
	90 °	3/32 in	2 in	3/16 in	Monster	**45XN28**
	90 °	2 in	2 in	3/16 in	Cleveland	**33FZ15**
1/4 in	60 °	7/32 in	2 1/2 in	1/4 in	Monster	**45XN23**
	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN30**
	90 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33FZ16**
3/8 in	60 °	5/8 in	2 1/2 in	3/8 in	Monster	**45XN24**
	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN32**
	90 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33FZ17**
1/2 in	60 °	3/8 in	3 in	1/2 in	Monster	**45XN25**
	90 °	1/4 in	3 in	1/2 in	Monster	**45XN33**
	90 °	3 in	3 in	1/2 in	Cleveland	**33FZ18**
3/4 in	90 °	4 in	4 in	3/4 in	Cleveland	**33FZ19**
4 Flutes						
1/8 in	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XN34**
3/16 in	90 °	3/32 in	2 in	3/16 in	Monster	**45XN35**
1/4 in	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN36**
	90 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**32ZX64**
3/8 in	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN37**
	90 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**32ZX65**
1/2 in	90 °	1/4 in	3 in	1/2 in	Monster	**45XN38**
	90 °	3 in	3 in	1/2 in	Cleveland	**32ZX66**
3/4 in	90 °	4 in	4 in	3/4 in	Cleveland	**32ZX67**

MONSTER

G.W. SCHULTZ TOOL

CLEVELAND



AlTin Finish
2 Flute
No. 45XM49

Single-End Straight-Shank Chamfer Mills

Single-end chamfer mills have a straight shank with angled cutting edges on one end and are less fragile than double-end chamfer mills. They are used to create chamfered or beveled edges, to debur edges, and to spot and countersink holes in one step prior to drilling.

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
2 Flutes						
1/8 in	60 °	7/64 in	1 1/2 in	1/8 in	Monster	**45XM49**
	82 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM73**
	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM97**
3/16 in	60 °	5/32 in	2 in	3/16 in	Monster	**45XM51**
	82 °	3/32 in	2 in	3/16 in	Monster	**45XM75**
	90 °	3/32 in	2 in	3/16 in	Monster	**45XM99**
1/4 in	60 °	7/32 in	2 1/2 in	1/4 in	Monster	**45XM53**
	82 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XM77**
	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN02**
3/8 in	60 °	5/8 in	2 1/2 in	3/8 in	Monster	**45XM55**
	82 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XM79**
	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN04**
1/2 in	60 °	3/8 in	3 in	1/2 in	Monster	**45XM57**
	82 °	1/4 in	3 in	1/2 in	Monster	**45XM81**
	90 °	1/4 in	3 in	1/2 in	Monster	**45XN06**
3/4 in	60 °	5/8 in	3 in	3/4 in	Monster	**45XM59**
	82 °	3/8 in	3 in	3/4 in	Monster	**45XM83**
	90 °	3/8 in	3 in	3/4 in	Monster	**45XN08**
1 in	90 °	1 1/2 in	4 in	1 in	G.W. Schultz Tool	**54PY71**
4 Flutes						
1/8 in	60 °	7/64 in	1 1/2 in	1/8 in	Monster	**45XM61**
	82 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM85**
	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XN10**
3/16 in	60 °	5/32 in	2 in	3/16 in	Monster	**45XM63**
	82 °	3/32 in	2 in	3/16 in	Monster	**45XM87**
	90 °	3/32 in	2 in	3/16 in	Monster	**45XN12**
1/4 in	60 °	7/32 in	2 1/2 in	1/4 in	Monster	**45XM65**
	82 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XM89**
	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN14**
	90 °	3/4 in	2 1/2 in	1/4 in	G.W. Schultz Tool	**54PZ04**
3/8 in	60 °	5/8 in	2 1/2 in	3/8 in	Monster	**45XM67**
	82 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XM91**
	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN16**
1/2 in	60 °	3/8 in	3 in	1/2 in	Monster	**45XM69**
	82 °	1/4 in	3 in	1/2 in	Monster	**45XM93**
	90 °	1/4 in	3 in	1/2 in	Monster	**45XN18**
3/4 in	60 °	5/8 in	3 in	3/4 in	Monster	**45XM71**
	82 °	3/8 in	3 in	3/4 in	Monster	**45XM95**
	90 °	3/8 in	3 in	3/4 in	Monster	**45XN20**
	90 °	1 1/2 in	4 in	3/4 in	G.W. Schultz Tool	**54PZ14**
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	60 °	7/64 in	1 1/2 in	1/8 in	Monster	**45XM48**
	60 °	1 1/2 in	1 1/2 in	1/8 in	Cleveland	**33FY97**
	82 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM72**
	82 °	1 1/2 in	1 1/2 in	1/8 in	Cleveland	**33FY98**
	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM96**
	90 °	1 1/2 in	1 1/2 in	1/8 in	Cleveland	**33FY99**

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
3/16 in	60 °	5/32 in	2 in	3/16 in	Monster	**45XM50**
	82 °	3/32 in	2 in	3/16 in	Monster	**45XM74**
	90 °	3/32 in	2 in	3/16 in	Monster	**45XM98**
	90 °	2 in	2 in	3/16 in	Cleveland	**33FZ01**
1/4 in	60 °	7/32 in	2 1/2 in	1/4 in	Monster	**45XM52**
	60 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33FZ02**
	82 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XM76**
	82 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33FZ03**
	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN01**
	90 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33FZ04**
3/8 in	60 °	5/8 in	2 1/2 in	3/8 in	Monster	**45XM54**
	60 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33FZ05**
	82 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XM78**
	82 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33FZ06**
	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN03**
	90 °	5/8 in	2 in	3/8 in	G.W. Schultz Tool	**54PY40**
	90 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33FZ07**
	120 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33FZ13**
1/2 in	60 °	3/8 in	3 in	1/2 in	Monster	**45XM56**
	60 °	3 in	3 in	1/2 in	Cleveland	**33FZ08**
	82 °	1/4 in	3 in	1/2 in	Monster	**45XM80**
	82 °	3 in	3 in	1/2 in	Cleveland	**33FZ09**
	90 °	1/4 in	3 in	1/2 in	Monster	**45XN05**
	90 °	3 in	3 in	1/2 in	Cleveland	**33FZ10**
	120 °	3 in	3 in	1/2 in	Cleveland	**33FZ11**
3/4 in	60 °	3/8 in	3 in	3/4 in	Monster	**45XM58**
	82 °	3/8 in	3 in	3/4 in	Monster	**45XM82**
	90 °	3/8 in	3 in	3/4 in	Monster	**45XN07**
	90 °	1 1/2 in	4 in	3/4 in	G.W. Schultz Tool	**54PY68**
	90 °	4 in	4 in	3/4 in	Cleveland	**33FZ12**
4 Flutes						
1/8 in	60 °	7/64 in	1 1/2 in	1/8 in	Monster	**45XM60**
	82 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XM84**
	90 °	1/16 in	1 1/2 in	1/8 in	Monster	**45XN09**
3/16 in	60 °	5/32 in	2 in	3/16 in	Monster	**45XM62**
	82 °	3/32 in	2 in	3/16 in	Monster	**45XM86**
	90 °	3/32 in	2 in	3/16 in	Monster	**45XN11**
1/4 in	60 °	7/32 in	2 1/2 in	1/4 in	Monster	**45XM64**
	60 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33GC63**
	82 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XM88**
	82 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33GC64**
	90 °	1/8 in	2 1/2 in	1/4 in	Monster	**45XN13**
	90 °	2 1/2 in	2 1/2 in	1/4 in	Cleveland	**33GC65**
3/8 in	60 °	3/8 in	2 1/2 in	3/8 in	Monster	**45XM66**
	60 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33GC66**
	82 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XM90**
	82 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33GC67**
	90 °	3/16 in	2 1/2 in	3/8 in	Monster	**45XN15**
	90 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33GC68**
	120 °	2 1/2 in	2 1/2 in	3/8 in	Cleveland	**33GC62**
1/2 in	60 °	3/8 in	3 in	1/2 in	Monster	**45XM68**
	60 °	3 in	3 in	1/2 in	Cleveland	**33GC69**
	82 °	1/4 in	3 in	1/2 in	Monster	**45XM92**
	82 °	3 in	3 in	1/2 in	Cleveland	**33GC70**
	90 °	1/4 in	3 in	1/2 in	Monster	**45XN17**
	90 °	5/8 in	2 1/2 in	1/2 in	G.W. Schultz Tool	**54PY86**
	90 °	1 in	3 in	1/2 in	G.W. Schultz Tool	**54PZ09**
	90 °	3 in	3 in	1/2 in	Cleveland	**33GC71**
	120 °	2 1/2 in	3 in	1/2 in	Cleveland	**33GC72**
3/4 in	60 °	3/8 in	3 in	3/4 in	Monster	**45XM70**
	82 °	3/8 in	3 in	3/4 in	Monster	**45XM94**
	90 °	3/8 in	3 in	3/4 in	Monster	**45XN19**
	90 °	1 in	4 in	3/4 in	G.W. Schultz Tool	**54PZ13**
	90 °	2 1/2 in	4 in	3/4 in	Cleveland	**33GC73**

No. of Pieces	Profile Bit Shape Included	Brand	Item No.
3	Flush Trim	GA	16Y598
3	Rail, Raised Panel, Stile	GA	16Y604
3	Rail, Raised Panel, Stile	Westward	45J321
3	Straight	GA	16Y597
4	Flush Trim, Panel, Pattern	GA	16Y548
4	Forming	GA	16Y603
4	Roundover	GA	16Y602
4	Roundover	Vermont American	41HR19
5	Straight	GA	16Y547
6	Chamfer, Cove, Rabbetting, Roman Ogee, Roundover	GA	16Y554
6	Flush Trim, Pattern, Straight	GA	16Y599
6	Slot Cutter	GA	16Y601
8	Upshear Design, V-Groove, Core Box, Spiral Plunge, Down Cut, Bottom Cleaning/Spoil Board, 0.10° Tapered Angle Ball Tip, 2D & 3D Carving, 2D & 3D Carving, 5.4° Tapered Angle Ball Tip, 90° Angle	Powermatic	52XJ10
10	Chamfer, Core Box, Cove, Rabbeting, Roman Ogee, Roundover, Straight	GA	16Y553
30	Chamfer, Classical, Core Box, Cove, Dovetail, Keyhole, Mortising, Ogee, Ovolo, Panel, Rabbeting, Roman Ogee, Roundover, Straight	GA	16Y605

GAV GRAINGER APPROVED VENDOR
WESTWARD
Vermont Gage
POWERMATIC



8 Piece
No. 52XJ10

Router Bit Sets

Router bit sets contain multiple bits for creating decorative edges and other features in workpieces. These bits are used in woodworking and light manufacturing applications in a variety of materials, including wood, some metals, plastics, and composites.

ONSRUD CUTTER LP · MICRO 100 super carbide tools · SGS Solid Carbide Tools · WESTWARD · freud · GA GRAINGER APPROVED · MONSTER



Carbide Solid Router Bit for Wood
Spiral Downcut
No. 4VZX3

Solid Router Bits

Solid router bits make plunge and profile cuts in solid surfaces. The geometry of the router bit helps determine the material it's best suited for use with. These router bits are used in CNC routers, machining centers, and milling machines for manufacturing and production applications.

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Carbide Solid Router Bits for Aluminum						
Spiral O-Flute Downcut						
1/16 in	1/4 in	1 1/2 in	1/8 in	22 °	Onsrud	4KPR6
1/8 in	1/2 in	2 in	1/4 in	22 °	Onsrud	4KPR8
1/4 in	3/8 in	2 in	1/4 in	22 °	Onsrud	4KPR9
Spiral O-Flute Upcut						
1/16 in	1/4 in	1 1/2 in	1/8 in	22 °	Onsrud	4KPT2
1/8 in	1/4 in	1 1/2 in	1/8 in	22 °	Onsrud	4KPT3
1/8 in	1/4 in	2 in	1/4 in	22 °	Onsrud	4KPT4
1/8 in	1/2 in	2 in	1/4 in	22 °	Onsrud	4KPT5
3/16 in	5/8 in	2 in	1/4 in	22 °	Onsrud	4KPT7
1/4 in	3/8 in	2 in	1/4 in	22 °	Onsrud	4KPT8
1/4 in	3/4 in	2 1/2 in	1/4 in	22 °	Onsrud	4KPT9
1/4 in	1 1/4 in	3 in	1/4 in	22 °	Onsrud	4KPU1
5/16 in	3/4 in	3 in	1/2 in	22 °	Onsrud	4KPU2
3/8 in	3/4 in	3 in	3/8 in	22 °	Onsrud	4KPU4
3/8 in	1 1/8 in	3 in	3/8 in	22 °	Onsrud	4KPU5
1/2 in	1 1/8 in	3 1/2 in	1/2 in	22 °	Onsrud	4KPU6
1/2 in	1 3/8 in	3 1/2 in	1/2 in	22 °	Onsrud	4KPU7
Spiral Upcut						
1/16 in	1/4 in	1 1/2 in	1/8 in	30 °	Micro 100	18F020
1/16 in	1/4 in	2 in	1/4 in	30 °	Micro 100	18F021
1/8 in	1/4 in	1 1/2 in	1/8 in	30 °	Micro 100	18F022
1/8 in	1/4 in	2 in	1/4 in	30 °	Micro 100	18F024
1/8 in	1/2 in	1 1/2 in	1/8 in	30 °	Micro 100	18F023
1/8 in	1/2 in	2 in	1/4 in	30 °	Micro 100	18F025
3/16 in	1/2 in	2 in	3/16 in	30 °	Micro 100	18F027
3/16 in	5/8 in	2 in	1/4 in	30 °	Micro 100	18F030
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	Micro 100	18F034
1/4 in	1 1/4 in	3 in	1/4 in	30 °	Micro 100	18F032
3/8 in	1 1/8 in	3 in	3/8 in	30 °	Micro 100	18F035
1/2 in	1 in	3 in	1/2 in	30 °	Micro 100	18F037
Carbide Solid Router Bits for Composites						
Spiral Downcut						
1/8 in	9/16 in	1 1/2 in	1/8 in	30 °	OSG	33PC26
1/4 in	3/4 in	2 1/2 in	1/4 in	15 °	OSG	35DR80
1/4 in	3/4 in	2 1/2 in	1/4 in	30 °	OSG	35DR56
1/4 in	3/4 in	2 1/2 in	1/4 in	60 °	OSG	35DR86
1/4 in	3/4 in	3 in	1/4 in	45 °	OSG	35DR59
1/4 in	3/4 in	3 in	1/4 in	60 °	OSG	35DR64
1/4 in	1 in	3 in	1/4 in	15 °	OSG	35DR83
3/8 in	7/8 in	3 in	3/8 in	30 °	OSG	35DR57
1/2 in	1 in	3 in	1/2 in	60 °	OSG	35DR89
Spiral Upcut						
3/8 in	7/8 in	3 in	3/8 in	10 °	Onsrud	4KPH4
1/2 in	1 1/8 in	3 in	1/2 in	10 °	Onsrud	4KPH3
1/2 in	1 1/8 in	3 1/2 in	1/2 in	10 °	Onsrud	4KPH5
Straight Flute						
1/2 in	3/4 in	4 in	1/2 in	0 °	Onsrud	4KPP5
Carbide Solid Router Bits for Foam						
Spiral Upcut						
1/8 in	1 1/8 in	2 1/2 in	1/4 in	25 °	Onsrud	4KPE3
3/16 in	1 1/8 in	3 in	3/16 in	25 °	Onsrud	4KPE4
3/16 in	1 3/8 in	4 in	3/16 in	25 °	Onsrud	4KPE5
1/4 in	2 1/4 in	4 in	1/4 in	25 °	Onsrud	4KPE6
5/16 in	3 1/8 in	6 in	3/16 in	25 °	Onsrud	4KPE7
3/8 in	3 1/2 in	6 in	3/8 in	25 °	Onsrud	4KPE8
Carbide Solid Router Bits for General Purpose Applications						
Spiral Downcut						
1/8 in	1/2 in	2 in	1/4 in	25 °	Micro 100	18F133
1/8 in	1 1/2 in	2 in	1/4 in	35 °	SGS Tool	41CF89
1/4 in	3/4 in	2 1/2 in	1/4 in	25 °	Micro 100	18F142
1/4 in	1 1/4 in	3 in	1/4 in	25 °	Micro 100	18F082
3/8 in	1 1/8 in	3 in	3/8 in	25 °	Micro 100	18F085
1/2 in	2 in	4 in	1/2 in	35 °	SGS Tool	41AY23
Spiral O-Flute Downcut						
1/8 in	1/2 in	2 in	1/4 in	25 °	Onsrud	4KPF1
1/4 in	3/4 in	2 in	1/4 in	25 °	Onsrud	4KPF5
3/8 in	1 1/8 in	3 in	3/8 in	25 °	Onsrud	4KPF8
Spiral O-Flute Upcut						
1/16 in	1/4 in	2 in	1/8 in	25 °	Onsrud	4KPF9
1/16 in	1/4 in	2 in	1/4 in	24 °	Onsrud	4KNW2
1/8 in	1/4 in	2 in	1/4 in	25 °	Onsrud	4KPG1
1/8 in	1/2 in	2 in	1/4 in	25 °	Onsrud	4KPG3
3/16 in	5/8 in	2 in	1/4 in	24 °	Onsrud	4KNW5
3/16 in	1 1/4 in	3 in	1/4 in	25 °	Onsrud	4KPG5
1/4 in	3/8 in	2 1/2 in	1/4 in	24 °	Onsrud	4KNW6
1/4 in	5/8 in	2 in	1/4 in	25 °	Onsrud	4KPG6
1/4 in	3/4 in	2 1/2 in	1/4 in	11 °	Onsrud	4WAE6
1/4 in	3/4 in	2 1/2 in	1/4 in	24 °	Onsrud	4KNW7
1/4 in	7/8 in	2 1/2 in	1/4 in	25 °	Onsrud	4KPG7
1/4 in	1 1/2 in	3 in	1/4 in	25 °	Onsrud	4KPG9
3/8 in	1 in	3 in	3/8 in	11 °	Onsrud	4WAE7
3/8 in	1 1/8 in	3 in	3/8 in	24 °	Onsrud	4KNW8
3/8 in	1 1/8 in	3 in	3/8 in	25 °	Onsrud	4KPH1
1/2 in	1 1/8 in	3 1/2 in	1/2 in	11 °	Onsrud	4WAE8
1/2 in	2 1/8 in	4 1/2 in	1/2 in	11 °	Onsrud	4WAF1
Spiral Upcut						
1/8 in	1/4 in	2 in	1/4 in	30 °	Onsrud	4KPC3
Straight Flute						
1/4 in	3/4 in	2 1/2 in	1/4 in	0 °	OSG	35DA07
1/2 in	1 in	3 in	1/2 in	0 °	OSG	35DA19
Straight O-Flute						
1/8 in	5/16 in	2 in	1/4 in	0 °	Onsrud	4KNT4
1/8 in	1/2 in	2 in	1/4 in	0 °	Onsrud	4KNT5
1/8 in	5/8 in	4 in	1/4 in	0 °	Onsrud	4KNT6
5/32 in	9/16 in	2 in	1/4 in	0 °	Onsrud	4KNT7
3/16 in	3/8 in	2 in	1/4 in	0 °	Onsrud	4KNT9
3/16 in	1 in	4 in	1/4 in	0 °	Onsrud	4KNU1
1/4 in	3/4 in	2 1/2 in	1/4 in	0 °	Onsrud	4KNU3
1/4 in	1 in	3 1/4 in	1/4 in	0 °	Onsrud	4KNU5
1/4 in	1 1/4 in	4 in	1/4 in	0 °	Onsrud	4KNU6
Straight V-Flute						
3/8 in	1/2 in	2 1/2 in	3/8 in	0 °	Onsrud	4KPC2
Carbide Solid Router Bits for Hard Plastics						
Spiral O-Flute Downcut						
1/8 in	1/2 in	2 in	1/4 in	21 °	Onsrud	4KNV1
3/16 in	5/8 in	2 in	1/4 in	21 °	Onsrud	4KNV2
1/4 in	3/4 in	2 1/2 in	1/4 in	21 °	Onsrud	4KNV3
1/4 in	1 1/4 in	3 in	1/4 in	21 °	Onsrud	4KNV4
1/4 in	1 1/2 in	3 in	1/4 in	21 °	Onsrud	4KNV5
Spiral O-Flute Upcut						
1/16 in	1/4 in	2 in	1/8 in	21 °	Onsrud	4KNW9
1/16 in	1/4 in	2 in	1/4 in	21 °	Onsrud	4KNX1
1/8 in	1/2 in	2 in	1/8 in	21 °	Onsrud	4KNX4
1/8 in	1/2 in	2 in	1/4 in	21 °	Onsrud	4KNX5
5/32 in	9/16 in	2 in	1/4 in	21 °	Onsrud	4KNX6
3/16 in	3/8 in	2 in	1/4 in	21 °	Onsrud	4KNX7
3/16 in	5/8 in	2 in	3/16 in	21 °	Onsrud	4KNX8
3/16 in	5/8 in	2 in	1/4 in	21 °	Onsrud	4KNX9
1/4 in	3/4 in	2 1/2 in	1/4 in	21 °	Onsrud	4KNY2
1/4 in	1 1/4 in	3 in	1/4 in	21 °	Onsrud	4KNY4
1/4 in	1 1/2 in	3 in	1/4 in	21 °	Onsrud	4KNY5
3/8 in	1 1/8 in	3 in	3/8 in	21 °	Onsrud	4KNY6
1/2 in	1 3/8 in	3 1/2 in	1/2 in	21 °	Onsrud	4KNY7
Straight V-Flute						
1/8 in	1/4 in	2 in	1/4 in	0 °	Onsrud	4WAF8
3/16 in	5/8 in	2 in	1/4 in	0 °	Onsrud	4WAF9
1/4 in	3/4 in	2 1/2 in	1/4 in	0 °	Onsrud	4WAG1
1/4 in	1 1/4 in	4 in	1/4 in	0 °	Onsrud	4WAG2
3/8 in	7/8 in	2 1/2 in	3/8 in	0 °	Onsrud	4WAG3
Carbide Solid Router Bits for Soft Plastic						
Spiral O-Flute Downcut						
1/8 in	1/2 in	2 in	1/4 in	21 °	Onsrud	4KNV7
3/16 in	5/8 in	2 in	1/4 in	21 °	Onsrud	12A959
1/4 in	3/4 in	2 1/2 in	1/4 in	21 °	Onsrud	4KNV8
1/4 in	1 1/4 in	3 in	1/4 in	21 °	Onsrud	4KNV9
1/2 in	1 3/8 in	3 1/2 in	1/2 in	21 °	Onsrud	12A961
Spiral O-Flute Upcut						
1/16 in	1/4 in	2 in	1/4 in	21 °	Onsrud	4KNY9
1/8 in	1/4 in	2 in	1/4 in	21 °	Onsrud	4KNZ1
1/8 in	1/2 in	2 in	1/4 in	21 °	Onsrud	4KNZ3
3/16 in	5/8 in	2 in	1/4 in	21 °	Onsrud	4KNZ4
1/4 in	3/4 in	2 1/2 in	1/4 in	21 °	Onsrud	4KNZ6
1/4 in	1 1/4 in	3 in	1/4 in	21 °	Onsrud	4KNZ7
1/4 in	1 1/4 in	3 in	1/4 in	22 °	Onsrud	4WAF2
3/8 in	1 1/8 in	3 in	3/8 in	21 °	Onsrud	4KNZ8
3/8 in	1 1/2 in	4 in	3/8 in	22 °	Onsrud	4WAF3
3/8 in	1 3/8 in	3 1/2 in	3/8 in	21 °	Onsrud	4KNZ9
1/2 in	1 1/4 in	4 in	1/2 in	22 °	Onsrud	4WAF4
1/2 in	2 1/8 in	4 in	1/2 in	22 °	Onsrud	4WAF6

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Straight O-Flute						
1/8 in	1/2 in	2 in	1/4 in	0 °	Onsrud	4WAG7
3/16 in	5/8 in	2 in	1/4 in	0 °	Onsrud	4WAG9
3/16 in	1 in	4 in	1/4 in	0 °	Onsrud	4WAH1
1/4 in	3/8 in	2 1/2 in	1/4 in	0 °	Onsrud	4WAH2
1/4 in	1 in	2 1/2 in	1/4 in	0 °	Onsrud	4WAH3
1/4 in	1 in	3 1/4 in	1/4 in	0 °	Onsrud	4WAH4
1/4 in	1 1/4 in	4 in	1/4 in	0 °	Onsrud	4WAH5
1/2 in	1 in	3 in	1/2 in	0 °	Onsrud	4KNT1
1/2 in	2 1/8 in	6 in	1/2 in	0 °	Onsrud	4KNT3
Carbide Solid Router Bits for Stainless Steel						
Spiral Upcut						
1/8 in	1/4 in	2 in	1/8 in	30 °	Onsrud	4KPH6
3/16 in	3/8 in	2 1/2 in	3/16 in	30 °	Onsrud	4KPH7
1/4 in	3/8 in	2 1/2 in	1/4 in	30 °	Onsrud	4KPH8
3/8 in	1/2 in	3 in	3/8 in	30 °	Onsrud	4KPH9
Carbide Solid Router Bits for Wood						
1/4 in	1 in	2 1/2 in	1/4 in		Westward	16Y577
Compression Spiral						
3/8 in	1 1/8 in	3 in	3/8 in	30 °	Onsrud	4VZZ8
1/2 in	1 1/8 in	3 in	1/2 in	30 °	Onsrud	4WAA1
1/2 in	1 3/8 in	3 1/2 in	1/2 in	30 °	Onsrud	4WAA4
1/2 in	1 5/8 in	4 in	1/2 in	30 °	Onsrud	4WAA3
3/4 in	2 1/4 in	5 in	3/4 in	30 °	Onsrud	4WAA6
Spiral Downcut						
1/8 in	1/2 in	2 in	1/8 in	30 °	Onsrud	4VZX3
1/8 in	1/2 in	2 in	1/4 in	30 °	Onsrud	4VZX4
5/32 in	5/8 in	2 in	1/4 in	30 °	Onsrud	4VZX5
3/16 in	3/4 in	2 in	1/4 in	30 °	Onsrud	4VZX6
1/4 in	7/8 in	2 1/2 in	1/4 in	30 °	Onsrud	4VZX8
1/4 in	7/8 in	3 in	1/4 in	10 °	Onsrud	4WAC8
1/4 in	1 in	2 1/2 in	1/4 in	25 °	Freud	53DJ46
1/4 in	1 in	2 1/2 in	1/4 in	30 °	Onsrud	4VZX9
1/4 in	1 1/8 in	3 in	1/4 in	30 °	Onsrud	4VZY1
3/16 in	1 1/4 in	3 in	3/8 in	30 °	Onsrud	4VZY5
7/16 in	1 in	3 in	1/2 in	30 °	Onsrud	4VZY7
1/2 in	1 1/8 in	3 in	1/2 in	30 °	Onsrud	4VZY8
1/2 in	1 5/8 in	3 1/2 in	1/2 in	30 °	Onsrud	4VZZ1
1/2 in	2 1/8 in	4 in	1/2 in	30 °	Onsrud	4VZZ2
1/2 in	2 1/8 in	4 1/2 in	1/2 in	10 °	Onsrud	4WAE2
17/32 in	1 1/8 in	3 in	1/2 in	30 °	Onsrud	4VZZ3
3/4 in	1 5/8 in	4 in	3/4 in	30 °	Onsrud	4VZZ5
Spiral Upcut						
1/8 in	1/2 in	2 in	1/4 in	30 °	Onsrud	4VZV6
3/16 in	3/4 in	2 in	1/4 in	30 °	Onsrud	4VZV7
1/4 in	7/8 in	3 in	1/4 in	10 °	Onsrud	4WAA8
1/4 in	1 in	2 1/2 in	1/4 in	30 °	Onsrud	4VZW1
1/4 in	1 1/8 in	3 in	1/4 in	30 °	Onsrud	4VZW2
3/8 in	3/8 in	3 in	3/8 in	10 °	Onsrud	4WAA9
3/8 in	1 1/8 in	3 in	3/8 in	10 °	Onsrud	4WAC1
3/8 in	1 1/4 in	3 in	1/2 in	30 °	Onsrud	4VZW6
1/2 in	1 1/8 in	3 in	1/2 in	30 °	Onsrud	4VZW7
1/2 in	1 1/8 in	3 1/2 in	1/2 in	10 °	Onsrud	4WAC2
1/2 in	1 5/8 in	4 in	1/2 in	10 °	Onsrud	4WAC3
1/2 in	2 1/8 in	4 in	1/2 in	30 °	Onsrud	4VZX1
Diamond-Cut Carbide Solid Router Bits for Composites						
Diamond Cut						
1/8 in	7/16 in	1 1/2 in	1/8 in	N/A	OSG	35DA30
1/8 in	1/2 in	1 1/2 in	1/8 in	N/A	Micro 100	18E966
1/8 in	1/2 in	1 1/2 in	1/8 in	N/A	OSG	35CN41
3/16 in	5/8 in	2 in	3/16 in	N/A	Micro 100	18E978
3/16 in	5/8 in	2 in	1/4 in	N/A	Micro 100	18E968
1/4 in	3/4 in	2 in	1/4 in	N/A	OSG	35DA42
1/4 in	3/4 in	2 1/2 in	1/4 in	N/A	Micro 100	18E970
1/4 in	3/4 in	2 1/2 in	1/4 in	N/A	GA	19D933
1/4 in	3/4 in	2 1/2 in	1/4 in	N/A	OSG	35DA46
1/4 in	1 in	3 in	1/4 in	N/A	Monster	55JD81
1/4 in	1 in	3 in	1/4 in	N/A	Micro 100	18E971
5/16 in	13/16 in	2 1/2 in	5/16 in	N/A	OSG	35CN52
3/8 in	1 in	2 1/2 in	3/8 in	N/A	Micro 100	18F018
1/2 in	1 in	3 in	1/2 in	N/A	Micro 100	18E985
1/2 in	1 in	3 in	1/2 in	N/A	GA	19D935
1/2 in	1 1/8 in	3 1/2 in	1/2 in	N/A	Onsrud	4KPL2
Spiral Downcut						
1/8 in	1/2 in	1 1/2 in	1/8 in	15 °	OSG	35DR32
1/4 in	1/2 in	2 1/2 in	1/4 in	15 °	OSG	35DR24
1/4 in	3/4 in	2 1/2 in	1/4 in	15 °	OSG	33PC25
1/4 in	1 in	3 in	1/4 in	15 °	OSG	35DR38
3/8 in	1 1/8 in	3 in	3/8 in	15 °	OSG	35DR36

Scan. Order. Done.
Details on page A1.

GA GRAINGER APPROVED MONSTER WIDIA

Carbide Burs

- For long shank burs, see Grainger.com®
- For information on overall length, see Grainger.com®

Single Cut—For general purpose use on steel, cast iron, ferrous, and nonferrous metals.

Double Cut—For use on steel, stainless steel, high-temperature alloys, and cast iron.

Diamond Cut—For fiberglass routing.



Cylinder - No End Cut (SA)



Cylinder - End Cut (SB)



Cylinder - Radius End (SC)



Ball (SD)

Trade No.	Cutter Dia.	Length of Cut	Shank Size	GA Single Cut Item No.	GA Double Cut Item No.	MONSTER TOOL CO. Single Cut Item No.	MONSTER TOOL CO. Double Cut Item No.	WIDIA Single Cut Item No.	WIDIA Double Cut Item No.
Cylinder - No End Cut									
SA-1	1/4"	5/8"	1/4"	19D632	19D788	22XY28	22YA34	2RPW3	1Z318 *
SA-2	5/16"	3/4"	1/4"	19D636	19D792	22XY29	22YA35	—	6KJL0
SA-3	3/8"	3/4"	1/4"	19D637	19D793	22XY30	22YA36	2RPW4	1Z326
SA-4	7/16"	1"	1/4"	—	—	22XY31	22YA37	—	—
SA-5	1/2"	1"	1/4"	19D643	19D799	22XY32	22YA38	2RPW5	1Z334
SA-6	5/8"	1"	1/4"	19D648	—	22XY33	22YA39	6KJD6	6KJL1
SA-7	3/4"	1"	1/4"	—	19D806	22XY36	22YA42	—	6KJL5
SA-8	7/8"	1"	1/4"	—	—	22XY37	22YA43	—	—
SA-9	1"	1"	1/4"	19D650	—	22XY38	22YA44	6KJD7	—
SA-11	1/8"	1/2"	1/4"	19D633	19D789	22XY17	22YA23	—	2NHG6
SA-12	1/8"	5/8"	1/4"	—	—	22XY18	22YA24	—	—
SA-13	5/32"	5/8"	1/4"	—	—	22XY22	22YA29	—	—
SA-14	3/16"	5/8"	1/4"	—	—	22XY26	22YA32	—	—
SA-15	3/4"	1/2"	1/4"	—	—	22XY34	22YA40	—	—
SA-16	3/4"	3/4"	1/4"	—	—	22XY35	22YA41	—	—
SA-41	1/16"	1/4"	1/8"	19D640	19D796	22XY12	22YA17	6KJD2 *	6KJK8 *
SA-42	3/32"	7/16"	1/8"	—	—	22XY14	22YA20	6KJD3 *	—
SA-43	1/8"	9/16"	1/8"	—	19D798	22XY19	22YA25	2RPW2 *	1Z285 *
SA-51	1/4"	1/2"	1/8"	—	19D801	22XY27	22YA33	—	—
SA-51	1/4"	3/16"	1/8"	—	—	—	—	—	2NHG7
SA-52	5/32"	1/2"	1/8"	—	—	22XY21	22YA28	—	—
SA-53	3/16"	1/2"	1/8"	19D646	—	22XY24	22YA30	—	—
SA-63	3/32"	3/8"	3/32"	—	—	22XY20	22YA27	—	—
SA-81	3/16"	5/8"	3/16"	—	—	22XY25	22YA31	—	—
Cylinder - End Cut									
SB-1	1/4"	5/8"	1/4"	19D653	19D809	22XY51	22YA57	2RPW6	1Z320 *
SB-1	1/4"	5/8"	1/4"	—	—	—	—	6KJH3 †	—
SB-2	5/16"	3/4"	1/4"	—	19D815	22XY52	22YA60	—	—
SB-3	3/8"	3/4"	1/4"	19D655	19D812	22XY53	22YA58	2RPW7	1Z328
SB-4	7/16"	1"	1/4"	19D666	—	22XY55	22YA61	—	—
SB-5	1/2"	1"	1/4"	19D651	19D808	22XY62	22YA68	2RPW8	1Z336
SB-5	1/2"	1"	1/4"	—	—	—	—	6KJH5 †	—
SB-6	5/8"	1"	1/4"	—	19D814	22XY56	22YA62	—	6KJL4
SB-7	3/4"	1"	1/4"	19D663	—	22XY59	22YA65	—	1Z344
SB-8	7/8"	1"	1/4"	—	—	22XY60	22YA66	—	—
SB-9	1"	1"	1/4"	—	—	22XY61	22YA67	—	—
SB-11	1/8"	1/2"	1/4"	—	—	22XY44	22YA50	—	—
SB-12	1/8"	5/8"	1/4"	—	—	22XY39	22YA45	—	—
SB-13	5/32"	5/8"	1/4"	—	—	22XY48	22YA54	—	—
SB-14	3/16"	5/8"	1/4"	—	19D813	22XY49	22YA55	—	6KJL3
SB-15	3/4"	1/2"	1/4"	—	—	22XY57	22YA63	—	—
SB-16	3/4"	3/4"	1/4"	—	—	22XY58	22YA64	—	—
SB-41	1/16"	1/4"	1/8"	—	—	22XY40	22YA46	6KJD8 *	—
SB-42	3/32"	7/16"	1/8"	19D658	19D816	22XY41	22YA47	—	—
SB-43	1/8"	9/16"	1/8"	—	—	22XY45	22YA51	—	—
SB-51	1/4"	3/16"	1/8"	—	19D810	22XY50	22YA56	—	—
SB-51	1/4"	1/2"	1/8"	—	—	—	—	—	2NHG9 *
Cylinder - Radius End									
SC-1	1/4"	5/8"	1/4"	19D683	19D823	22XY78	22YA84	—	1Z352 *
SC-2	5/16"	3/4"	1/4"	—	19D830	22XY79	22YA83	6KJE1 *	6KJL7 *
SC-3	3/8"	3/4"	1/4"	19D673	19D827	22XY80	22YA85	2RPX3 *	1Z356
SC-3X	3/8"	1 1/2"	1/4"	—	—	22YA10	22YD74	—	—
SC-4	7/16"	1"	1/4"	19D681	—	22XY81	22YA86	—	—
SC-5	1/2"	1"	1/4"	19D668	19D822	22XY82	22YA87	6KJE2	1Z358
SC-5	1/2"	1"	1/4"	—	—	—	—	6KJH7 * †	—
SC-6	5/8"	1"	1/4"	—	19D829	22XY83	22YA88	—	6KJL8 *
SC-7	3/4"	1"	1/4"	19D678	—	22XY84	22YA89	—	—
SC-9	1"	1"	1/4"	—	—	22XY86	22YA90	—	—
SC-11	1/8"	1/2"	1/4"	19D671	19D825	22XY67	22YA73	—	2RPU1 *
SC-13	5/32"	5/8"	1/4"	—	—	22XY71	22YA76	—	—
SC-14	3/16"	5/8"	1/4"	—	19D828	22XY75	22YA80	—	—
SC-15	3/4"	1/2"	1/4"	—	—	22XY74	22YA79	—	—
SC-16	3/4"	3/4"	1/4"	—	—	22XY85	22YA91	—	—
SC-41	3/32"	7/16"	1/8"	—	—	22XY66	22YA72	—	1Z292 *
SC-42	1/8"	9/16"	1/8"	—	19D826	22XY69	22YA75	2RPX1 *	1Z288 *
SC-51	1/4"	1/2"	1/8"	—	19D824	22XY76	22YA81	—	2RPU2
SC-52	5/32"	1/2"	1/8"	—	19D834	22XY77	22YA82	—	—
SC-53	3/16"	1/2"	1/8"	19D677	—	22XY72	22YA77	—	—
Ball									
SD-1	1/4"	1/32"	1/4"	—	19D838	22XY97	22YC02	—	—
SD-1	1/4"	1/4"	1/4"	—	—	—	—	2RPX6	1Z408
SD-2	5/16"	1/4"	1/4"	19D691	—	22XY98	22YC03	—	—
SD-2	5/16"	5/16"	1/4"	—	—	—	—	6KJE8	—
SD-3	3/8"	5/16"	1/4"	19D692	19D844	22XY99	22YC04	—	—
SD-3	3/8"	3/8"	1/4"	—	—	—	—	2RPX7	1Z410
SD-3	3/8"	3/8"	1/4"	—	—	—	—	6KJH8	—
SD-4	7/16"	3/8"	1/4"	19D696	—	22XZ01	22YC05	—	—
SD-5	1/2"	7/16"	1/4"	—	19D851	22XZ02	22YC06	—	—
SD-5	1/2"	1/2"	1/4"	—	—	—	—	2RPX8	1Z412
SD-6	5/8"	9/16"	1/4"	19D706	—	22XZ03	22YC07	—	—
SD-7	3/4"	11/16"	1/4"	—	—	22XZ04	22YC08	—	—
SD-7	3/4"	3/4"	1/4"	—	—	—	—	6KJE9	6KJN4
SD-9	1"	15/16"	1/4"	19D708	—	22XZ05	22YC09	—	—
SD-9	1"	1"	1/4"	—	—	—	—	—	6KJN5
SD-11	1/8"	3/32"	1/4"	—	—	22XY91	22YA95	—	—
SD-11	1/8"	1/8"	1/4"	—	—	—	—	6KJE4	2RPU3
SD-14	3/16"	1/8"	1/4"	—	—	22XY94	22YA98	6KJE6	—
SD-40	1/16"	1/16"	1/8"	—	—	—	—	6KJE3 *	—
SD-41	3/32"	3/32"	1/8"	19D698	—	22XY88	22YA93	2RPX5 *	1Z300 *
SD-42	1/8"	1/8"	1/8"	—	19D850	22XY89	22YA94	—	1Z294 *
SD-51	1/4"	1/32"	1/8"	—	19D852	22XY95	22YA99	—	—
SD-51	1/4"	1/4"	1/8"	—	—	—	—	6KJE7	2RPU4
SD-52	5/32"	5/32"	1/8"	—	—	22XY96	22YC01	—	—
SD-53	3/16"	5/32"	1/8"	19D703	19D853	22XY92	22YA96	—	—
SD-53	3/16"	3/16"	1/8"	—	—	—	—	—	6KJL9 *

** Solid carbide tool; all others have hardened steel shanks. † For cutting aluminum.*

CONTINUED

CONTINUED

Trade No.	Cutter Dia.	Length of Cut	Shank Size	GA Single Cut Item No.	GA Double Cut Item No.	MONSTER TOOL CO. Single Cut Item No.	MONSTER TOOL CO. Double Cut Item No.	WIDIA Single Cut Item No.	WIDIA Double Cut Item No.
Egg/Oval									
SE-1	1/4"	3/8"	1/4"	—	19D860	22XZ11	22YC15	—	2RPU7
SE-3	3/8"	5/8"	1/4"	—	19D863	22XZ12	22YC16	2RPY1	1Z399
SE-5	1/2"	7/8"	1/4"	19D709	19D859	22XZ13	22YC17	2RPY2	1Z401 *
SE-5	1/2"	1"	1/4"	—	—	—	—	6KJJ0 †	—
SE-6	5/8"	1"	1/4"	—	19D866	22XZ14	22YC18	—	—
SE-7	3/4"	1"	1/4"	19D715	19D865	22XZ16	22YC20	—	—
SE-11	3/16"	5/16"	1/4"	—	—	22YE08	22YE09	—	—
SE-41	1/8"	7/32"	1/8"	—	19D862	22XZ06	22YC10	—	2RPU5 *
SE-51	1/4"	3/8"	1/8"	—	—	22XZ10	22YC14	—	2RPU6
SE-53	3/16"	9/32"	1/8"	19D716	—	22XZ08	22YC12	—	6KJN6 *
Tree - Radius									
SF-1	1/4"	5/8"	1/4"	19D718	19D867	22XZ23	22YC27	2RPY4	1Z366
SF-3	3/8"	3/4"	1/4"	19D722	19D871	22XZ24	22YC28	2RPY5	1Z368
SF-3	3/8"	3/4"	1/4"	—	—	—	—	6KJJ1 †	—
SF-4	7/16"	1"	1/4"	—	19D872	22XZ25	22YC29	—	—
SF-5	1/2"	1"	1/4"	19D726	19D875	22XZ27	22YC31	2RPY6	1Z372
SF-5	1/2"	1"	1/4"	—	—	—	—	6KJJ2 †	—
SF-6	5/8"	1"	1/4"	19D729	19D878	22XZ28	22YC32	—	1Z374 *
SF-7	3/4"	1"	1/4"	19D730	—	22XZ29	22YC33	—	6KJN8
SF-11	1/8"	1/2"	1/4"	—	—	22XZ19	22YC23	—	—
SF-13	1/2"	3/4"	1/4"	19D719	—	22XZ26	22YC30	—	6KJN7
SF-14	3/4"	1 1/4"	1/4"	19D720	19D869	22XZ30	22YC34	—	—
SF-15	3/4"	1 1/2"	1/4"	—	19D870	22XZ31	22YC35	—	—
SF-41	1/8"	1/4"	1/8"	—	—	22XZ17	22YC21	2RPY3 *	1Z306 *
SF-42	1/8"	1/2"	1/8"	19D725	—	22XZ18	22YC22	6KJF3 *	2RPU9 *
SF-51	1/4"	1/2"	1/8"	—	—	22XZ22	22YC26	6KJF4	2RPV1
SF-53	3/16"	1/2"	1/8"	—	—	22XZ20	22YC24	—	—
Tree - Pointed									
SG-1	1/4"	5/8"	1/4"	19D753	19D880	22XZ38	22YC42	6KJF9	1Z378
SG-2	5/16"	3/4"	1/4"	—	—	22XZ39	22YC43	—	—
SG-3	3/8"	3/4"	1/4"	19D758	19D885	22XZ40	22YC44	—	6KJP1
SG-5	1/2"	1"	1/4"	—	19D891	22XZ42	22YC46	—	1Z382
SG-6	5/8"	1"	1/4"	19D768	19D895	22XZ43	22YC47	—	—
SG-7	3/4"	1"	1/4"	—	—	22XZ44	22YC48	—	—
SG-13	1/2"	3/4"	1/4"	19D754	—	22XZ41	22YC45	—	6KJP2
SG-15	3/4"	1 1/2"	1/4"	19D755	—	22XZ45	22YC49	—	—
SG-41	1/8"	1/4"	1/8"	19D760	—	22XZ32	22YC36	—	6KJN9 *
SG-42	1/8"	5/16"	1/8"	19D761	19D888	22XZ33	22YC37	—	—
SG-43	1/8"	3/8"	1/8"	19D762	—	22XZ34	22YC38	6KJF6 *	—
SG-44	1/8"	1/2"	1/8"	—	—	22XZ46	22YC50	6KJF7 *	6KJP0 *
SG-51	1/4"	1/2"	1/8"	—	19D892	22XZ37	22YC41	6KJF8	—
SG-53	3/16"	1/2"	1/8"	19D766	—	22XZ35	22YC39	—	—
Flame									
SH-1	1/4"	5/8"	1/4"	—	—	22XZ54	22YC59	—	—
SH-2	5/16"	3/4"	1/4"	—	—	22XZ50	22YC55	6KJG3	—
SH-5	1/2"	1 1/4"	1/4"	19D735	19D911	22XZ51	22YC56	—	2RPV2
SH-6	5/8"	1 7/16"	1/4"	—	—	22XZ52	22YC57	—	—
SH-7	3/4"	1 5/8"	1/4"	—	—	22XZ53	22YC58	—	—
SH-41	1/8"	1/4"	1/8"	—	—	22XZ48	22YC53	2RPY7 *	1Z296 *
SH-53	3/16"	3/8"	1/8"	19D732	19D915	22XZ49	22YC54	6KJG2 *	—
Taper - Radius									
SL-1	1/4"	5/8"	1/4"	—	19D918	22XZ75	22YC80	—	6KJP6
SL-2	5/16"	7/8"	1/4"	19D773	19D919	22XZ76	22YC81	—	6KJP7
SL-3	3/8"	1 15/16"	1/4"	—	—	—	—	—	5ET16 *
SL-3	3/8"	1 1/16"	1/4"	19D774	19D920	22XZ77	22YC82	—	—
SL-4	1/2"	1 1/8"	1/4"	19D775	19D921	22XZ78	22YC83	6KJJ3 †	—
SL-4	1/2"	1 1/4"	1/4"	—	—	—	—	—	5ET18 *
SL-5	5/8"	1 3/16"	1/4"	—	—	22XZ80	22YC85	—	—
SL-6	5/8"	1 5/16"	1/4"	—	19D924	22XZ69	22YC74	—	6KJP8
SL-7	3/4"	1 1/2"	1/4"	—	19D925	22XZ81	22YC86	—	—
SL-41	1/8"	3/8"	1/8"	—	—	22XZ70	22YC75	—	6KJP4 *
SL-42	1/8"	1/2"	1/8"	19D778	—	22XZ71	22YC76	6KJG5 *	6KJP5 *
SL-53	3/16"	1/2"	1/8"	19D779	—	22XZ73	22YC78	—	—
Pointed Cone									
SM-1	1/4"	1/2"	1/4"	—	19D901	22XZ90	22YC95	—	2RPV7
SM-2	1/4"	3/4"	1/4"	—	19D902	22XZ91	22YC96	2RPY8	1Z386
SM-3	1/4"	1"	1/4"	19D741	19D903	22XZ92	22YC97	2RPY9	2RPV8
SM-4	3/8"	5/8"	1/4"	19D745	19D908	22XZ93	22YC98	—	1Z390
SM-5	1/2"	7/8"	1/4"	—	19D899	22XZ94	22YC99	2RPZ1	1Z392
SM-6	5/8"	1"	1/4"	19D747	19D909	22XZ95	22YD01	—	6KJP9
SM-41	1/8"	3/8"	1/8"	19D742	—	—	—	—	2RPV3 *
SM-41	1/8"	11/32"	1/8"	—	—	22XZ83	22YC88	—	—
SM-42	1/8"	7/16"	1/8"	—	—	22XZ84	22YC89	6KJG9 *	1Z304 *
SM-43	1/8"	5/8"	1/8"	19D744	—	22XZ87	22YC92	6KJH0 *	2RPV5 *
SM-51	1/4"	1/2"	1/8"	—	19D904	22XZ89	22YC94	—	2RPV6
SM-53	3/16"	1/2"	1/8"	19D748	—	22XZ88	22YC93	—	—
Inverted Cone									
SN-1	1/4"	5/16"	1/4"	—	—	22YA03	22YD08	—	—
SN-2	3/8"	3/8"	1/4"	—	—	22YA07	22YD12	—	—
SN-4	1/2"	1/2"	1/4"	19D782	—	22YA04	22YD09	—	—
SN-6	5/8"	3/4"	1/4"	—	—	22YA05	22YD10	—	—
SN-7	3/4"	5/8"	1/4"	—	—	22YA06	22YD11	—	—
SN-41	3/32"	1/8"	1/8"	19D786	19D931	22XZ97	22YD03	—	—
SN-42	1/8"	3/16"	1/8"	—	19D929	22XZ98	22YD04	—	—
SN-51	1/4"	1/4"	1/8"	—	—	22YA02	22YD07	—	—
SN-53	3/16"	1/4"	1/8"	19D785	19D932	22XZ99	22YD05	—	—

Cutter Dia.	Length of Cut	Shank Size	GA Item No.	WIDIA Item No.
Diamond Cut				
1/4"	3/4"	1/4"	19D933	6KJC9 *
3/8"	1"	3/8"	19D934	6KJD0 *
1/2"	1"	1/2"	19D935	6KJD1 *

** Solid carbide tool; all others have hardened steel shanks. † For cutting aluminum.*

GA GRAINGER APPROVED MONSTER WIDIA

Carbide Burs



Egg/Oval (SE)



Tree - Radius (SF)



Flame (SH)



Pointed Cone (SM)



Tree - Pointed (SG)



Taper - Radius (SL)



Inverted Cone (SN)



Diamond Cut


Cylinder (SA)


Ball (SD)


Cone
No. 38TC36


Inox Cut, 5 pc.
No. 49EJ45

MONSTER

Aluma Cut Carbide Burs

These single-end burrs are designed with a high flute finish for easy chip flow in soft materials such as aluminum, plastics, and zinc. Made of micrograin C-2 grade premium carbide with 8% to 10% cobalt content. For use in die grinders, CNC machining centers, and high-speed dremel-type rotary tools.

Note: Additional trade sizes available, go to Grainger.com®.

Trade No.	Cutter Dia.	Length of Cut	Shank Size	Item No.
Ball				
SD-7NF	3/4"	1 1/16"	1/4"	**22YE03**
SD-5NF	1/2"	7/16"	1/4"	**22YD21**
Cylinder				
SA-5NF	1/2"	1"	1/4"	**22YD15**
SA-1NF	1/4"	5/8"	1/4"	**22YD32**
Cylinder - End Cut				
SB-5NF	1/2"	1"	1/4"	**22YD41**
SB-7NF	3/4"	1"	1/4"	**22YD43**
SB-3NF	3/8"	3/4"	1/4"	**22YD40**
Cylinder - Radius End				
SC-5NF	1/2"	1"	1/4"	**22YD18**
SC-6NF	5/8"	1"	1/4"	**22YD19**
SC-3NF	3/8"	3/4"	1/4"	**22YD17**
Egg/Oval				
SE-5NF	1/2"	7/8"	1/4"	**22YD24**
Taper - Radius				
SL-3NF	3/8"	1 1/16"	1/4"	**22YD29**
SL-4NF	1/2"	1 1/8"	1/4"	**22YD30**
Tree - Radius				
SF-5NF	1/2"	1"	1/4"	**22YD27**
SF-3NF	3/8"	3/4"	1/4"	**22YD26**

sgspro

Carbide Burs and Sets

- Suitable for ferrous and nonferrous applications
- Ensure efficient stock removal
- Use for optimum surface finish
- Note: Additional sets available, go to Grainger.com®.

Shape	Trade No.	Cutter Dia.	Length of Cut	Shank Size	Item No.
Carbide Burs					
Ball	SD5CO	1/2"	3/4"	1/4"	**38TC26**
Cone	SM5CO	1/2"	1 1/4"	1/4"	**38TC36**
60° Countersink	SJ5RA	1/2"	1 1/4"	1/4"	**38TC21**
Cylinder	SA5RA	1/2"	1"	1/4"	**38TC14**
Oval	SE1	1/4"	3/8"	1/4"	**38TA69**
Pointed Tree	SG5RA	1/2"	1 1/4"	1/4"	**38TC20**

Type	No. of Pieces	Shank Size (in.)	Includes	Item No.
Carbide Bur Sets				
Steel Cut	5	1/4	SB-5, SC-5, SF-5, SG-5, SL-4	**49EJ74**
Omega Cut	5	1/4	SB-5, SC-5, SF-5, SG-5, SL-4	**49EJ80**
Inox Cut	5	1/4	SA-5, SC-5, SF-5, SG-5, SL-4	**49EJ45**
Double Cut	5	1/4	SB-3, SC-5, SF-5, SG-3, SL-4	**49EJ75**


No. 2C919


No. 2C923


No. 22XY05

Carbide Bur Sets

MONSTER WESTWARD WIDIA

No. of Pieces	Shank Size (in.)	Includes	DOUBLE CUT Item No.	SINGLE CUT Item No.
Monster Tool Co.				
8	1/4	Trade Number: SA-5, SC-5, SD-5, SE-5, SG-5, SH-5, SK-5, SM-5	**22XX94**	**22XX66**
9	1/4"	SB-1, SB-3, SB-5, SD-1, SD-3, SD-5, SE-1, SE-3, SE-5	**22XX91**	—
	1/4	Trade Number: SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SM-3, SN-2	**22XX88**	—
	1/4"	SB-3, SC-3, SD-3, SE-3, SF-3, SG-3, SK-3, SL-3, SM-3	**22XX89**	—
	1/4"	SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SM-3, SN-2	—	**22XX60**
12	1/8"	SA-51, SA-52, SB-51, SC-51, SC-52, SD-51, SD-52, SE-51, SF-51, SG-51, SM-51, SN-51	**22XX83**	—
	1/8"	SA-42, SA-43, SC-42, SD-42, SE-41, SF-41, SF-42, SG-41, SL-42, SM-43, SN-41, SN-42	**22XX76**	**22XX48**
	1/8"	SA-52, SA-53, SC-52, SC-53, SD-52, SD-53, SE-53, SF-53, SG-53, SH-53, SM-53, SN-53	**22XX81**	—
	1/4"	SA-1, SA-3, SA-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5, SG-1, SG-3, SG-5	**22XX96**	—
	1/4"	SA-5, SB-5, SC-5, SD-5, SE-5, SF-5, SG-5, SH-5, SJ-5, SK-5, SL-4, SM-5	**22XY04**	**22XX75**
	1/4	Trade Number: SA-3, SB-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SK-3, SL-3, SM-4, SN-2	**22XY03**	—
	1/4"	SB-1, SB-3, SB-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5, SN-1, SN-2, SN-4	**22XX98**	—
	1/4	Trade Number: SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SE-1, SE-3, SE-5, SM-1, SM-3, SM-5	**22XX97**	—
Westward				
5	1/8"	SA-51, SC-51, SF-51, SD-51, SM-51	**2LYT5**	—
9	1/4"	SA-1, SC-1, SF-1, SD-1, SM-1	**2LYT3**	**2LYT2**
	1/8"	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51	**2LYR4**	—
12	1/8	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-43, SH-41, SL-42, SM-42, SN-42	**2LYR8**	—
	1/8"	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-43, SH-41, SL-42, SM-42, SN-42	—	**2LYR7**
	1/4"	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SK-1, SL-1, SM-1, SN-1	**2LYR6**	—
	1/4	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SK-1, SL-1, SM-1, SN-1	—	**2LYR5**
16	1/4"	SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-3, SD-5, SE-3, SF-1, SF-3, SF-5, SG-1, SG-3, SL-3, SL-4	**2LYT1**	**2LYR9**
WIDIA				
8	1/4"	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-2	**2C919**	—
	1/4"	SA-05, SD-05, SE-05,SF-05, SM-05, SG-5, SL-4, SC-5	**2RPW1**	—
9	1/8"	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SM-51, SG-51, SN-51	**2RPV9**	—
	1/8"	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-42, SM-43	**2C923**	—

No. of Pieces	Shank Size (in.)	Includes	ALUMA CUT Item No.
Monster Tool Co.			
10	1/4"	SA-1, SA-3, SB-3, SC-1, SC-3, SD-1, SD-3, SE-3, SF-3, SL-3	**22XY05**
12	1/4"	SA-1, SA-3, SA-5, SB-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5, SL-3, SL-4	**22XY07**
	1/4	Trade Number: SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5	**22XY06**


No. 2LYT3

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

WALTER VALENITE

Turning Inserts

- Positive rake
- Screw mount
- Priced each, sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.


Rhombic


Round


Square


Triangle


Trigon

ISO Grade	Application	First Choice Grade
K	Cast Iron	WCK10, WKK10S, WKK20S, WKP30S, WPP01, WPP10S, WPP20S, WPV10, WPV20, WXP30
H	Hardened	WCB30, WCB50, WKK10S, WSM01, WWS20
N	Non Ferrous	WDN10, WK1, WNN10, WSM01, WXN10
M	Stainless	WKP30S, WMP20S, WNN10, WPP20S, WPV10, WPV20, WSM01, WSM10S, WSM20, WSM20S, WSM21, WSM30S, WXP30
P	Steel	WKK20S, WKP30S, WMP20S, WNN10, WPP10S, WPP20S, WPP30S, WPV10, WPV20, WSM01, WSM10S, WSM20S, WSM21, WSM30S, WXP30
S	Super Alloy	WIS10, WMP20S, WNN10, WPP20S, WSM01, WSM10, WSM10S, WSM20, WSM20S, WSM21, WSM30S, WWS20, WXP30

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CCGT2(1.5)0.2-FM2 WSM20S	¼ in	0.004"	WSM20S	**449Y86**
CCGT2(1.5)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X41**
CCGT2(1.5)0.5-MN2 WNN10	¼ in	0.008"	WNN10	**449X86**
CCGT2(1.5)1	¼ in	0.0310"	WSM20S	**53UN66**
CCGT2(1.5)2	¼ in	0.0160"	WSM01	**53UN40**
CCGT3(2.5)0.2-FM2 WSM20S	⅜ in	0.004"	WSM20S	**449Y88**
CCGT3(2.5)0.5-FN2 WNN10	⅜ in	0.008"	WNN10	**449X44**
CCGT3(2.5)0.5-PF2	⅜ in	0.0078"	WK1	**30FL25**
CCGT3(2.5)1	¼ in	0.0160"	WKK20S	**53UN39**
CCGT3(2.5)1	⅜ in	0.0310"	WPP10S	**53UN62**
CCGT3(2.5)1-FM2 WSM10S	⅜ in	0.016"	WSM10S	**449Y90**
CCGT3(2.5)1-FN2 WNN10	⅜ in	0.016"	WNN10	**449X45**
CCGT3(2.5)1-PF2	⅜ in	0.0157"	WK1	**30FL29**
CCGT3(2.5)2	⅜ in	0.0080"	WSM01	**53UN50**
CCGT3(2.5)2-PF2	⅜ in	0.0310"	WK1	**30FL33**
CCGT4(3)0.5-MN2 WNN10	½ in	0.008"	WNN10	**449X89**
CCGT432-MN2 WNN10	½ in	0.031"	WNN10	**449X91**
CCGW2(1.5)0.5FS-1 WDN10	¼ in	0.008"	WDN10	**449W71**
CCMT2(1.5)1	¼ in	0.0080"	WPP10S	**53UN75**
CCMT2(1.5)1	¼ in	0.0310"	WPP20S	**53UP37**
CCMT2(1.5)1-MM4 WSM30S	¼ in	0.016"	WSM30S	**449Z48**
CCMT2(1.5)2	¼ in	0.0160"	WPP20S	**53UN85**
CCMT3(2.5)0.5FS-1 WDN10	⅜ in	0.008"	WDN10	**449W51**
CCMT3(2.5)1	⅜ in	0.0160"	WPP20S	**53UP54**
CCMT3(2.5)1-PF WSM20S	⅜ in	0.016"	WSM20S	**450A18**
CCMT3(2.5)2	¼ in	0.0160"	WKK10S	**53UN88**
CCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53UP51**
CCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53UP98**
CCMT431	⅜ in	0.0310"	WKK10S	**53UP84**
CCMT432	½ in	0.0310"	WPP20S	**53UR79**
CCMT433	¼ in	0.0160"	WPP20S	**53UP12**
CNGA432T02020 WCK10	½ in	0.031"	WCK10	**450G14**
CNGA434T02020 WCK10	½ in	0.063"	WCK10	**450G13**
CNGG4(3)0.2 WSM01	½ in	0.004"	WSM01	**449Y12**
CNGG431-MS3 WSM01	½ in	0.016"	WSM01	**449Y14**
CNGG432-MS3 WSM01	½ in	0.031"	WSM01	**449Y15**
CNGN432T01020 WWS20	½ in	0.031"	WWS20	**449W47**
CNGN454T02020 WCK10	½ in	0.063"	WCK10	**450G15**
CNMA432-2	½ in	0.0310"	WCB50	**30FM04**
CNMG322 1369	⅜ in	0.031"	WPP30S	**450C43**
CNMG322-FP5	⅜ in	0.031"	WPP10S	**28ME23**
CNMG431-FV5 WPV20	½ in	0.016"	WPV20	**450C46**
CNMG431-MP5	½ in	0.016"	WPP20S	**28ME33**
CNMG431-MV5 WPV20	½ in	0.016"	WPV20	**450C74**
CNMG431-NF WSM20S	½ in	0.016"	WSM20S	**450A33**
CNMG431-NF4	½ in	0.016"	WSM10	**28ME38**
CNMG432-FP5	½ in	0.031"	WPP20S	**28ME50**
CNMG432-FV5 WPV10	½ in	0.031"	WPV10	**450C47**
CNMG432-MP5	½ in	0.031"	WPP10S	**28ME54**
CNMG432-MS3 WPP20S	½ in	0.031"	WPP20S	**449X19**
CNMG432-MS3 WSM10S	½ in	0.031"	WSM10S	**449X10**
CNMG432-NF4	½ in	0.031"	WSM10	**28ME60**
CNMG432-NM4	½ in	0.031"	WSM20	**28ME71**
CNMG432-NR4	½ in	0.031"	WSM10	**28ME84**
CNMG432-NRS WSM20S	½ in	0.031"	WSM20S	**449Z76**
CNMG432-RV5 WPV10	½ in	0.031"	WPV10	**450D59**
CNMG433-MV5 WPV10	½ in	0.047"	WPV10	**450C77**
CNMG433-RM5 WPP20S	½ in	0.047"	WPP20S	**450C40**
CNMG542-MM5 WSM30S	⅝ in	0.031"	WSM30S	**450D53**
CNMG543-MK5 WKP30S	⅝ in	0.047"	WKP30S	**450F44**
CNMG543-NRS WSM30S	⅝ in	0.047"	WSM30S	**449Z81**
CNMG544-NRS WSM20S	⅝ in	0.063"	WSM20S	**449Z82**
CNMG643-RM5 WSM10S	¾ in	0.047"	WSM10S	**450F25**
CNMG644-RM5 WSM30S	¾ in	0.063"	WSM30S	**450F54**
CPGW1.8(1.5)1FS-1 WDN10	7/32 in	0.016"	WDN10	**450C15**
CPGW3(2.5)1FS-1 WDN10	⅜ in	0.016"	WDN10	**450C20**
CPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C17**
CPMT1.8(1.5)1-FP4 WPP10S	7/32 in	0.016"	WPP10S	**450A49**
DCGT2(1.5)0.2-FM2 WSM20S	¼ in	0.004"	WSM20S	**449Y49**
DCGT2(1.5)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X48**
DCGT2(1.5)2FS-M1 WDN10	¼ in	0.031"	WDN10	**449W63**
DCGT3(2.5)0.2-FM2 WSM20S	⅜ in	0.004"	WSM20S	**449Y51**
DCGT3(2.5)0.2-MN2 WNN10	⅜ in	0.004"	WNN10	**449X77**
DCGT3(2.5).5-PM2	⅜ in	0.0078"	WXN10	**30FN33**
DCGT3(2.5)1-PM2	⅜ in	0.0157"	WXN10	**30FN37**
DCGT3(2.5)1-PM2	⅜ in	0.0157"	WK1	**30FN36**
DCGT3(2.5)2-PM2	⅜ in	0.0310"	WXN10	**30FN41**
DCGW2(1.5)0.5FS-1 WDN10	¼ in	0.008"	WDN10	**449W82**
DCGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**449W84**

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
DCMT2(1.5)1-PF WSM30S	¼ in	0.016"	WSM30S	**450A23**
DCMT3(2.5)1-PM WSM20S	⅜ in	0.016"	WSM20S	**450A27**
DCMT3(2.5)2-PM WSM20S	⅜ in	0.031"	WSM20S	**450A28**
DNGA442T02020 WCK10	½ in	0.031"	WCK10	**450G20**
DNGG4(3)0.5 WSM01	½ in	0.008"	WSM01	**449Y16**
DNGG431-MS3 WSM01	½ in	0.016"	WSM01	**450G04**
DNGG432-MS3 WSM01	½ in	0.031"	WSM01	**449Y17**
DNMG331-FM5 WMP20S	⅜ in	0.016"	WMP20S	**450A79**
DNMG331-NMT WSM20S	⅜ in	0.016"	WSM20S	**449Y40**
DNMG431-FM5 WSM10S	½ in	0.016"	WSM10S	**450A68**
DNMG431-MM5 WMP20S	½ in	0.016"	WMP20S	**450F89**
DNMG432-FM5 WSM10S	½ in	0.031"	WSM10S	**450A84**
DNMG432-FM5 WSM20S	½ in	0.031"	WSM20S	**450A85**
DNMG432-MM5 WMP20S	½ in	0.031"	WMP20S	**450F78**
DNMG432-MM5 WSM30S	½ in	0.031"	WSM30S	**450D22**
DNMG432-NMT WSM20S	½ in	0.031"	WSM20S	**449Y42**
DNMG441-MM5 WMP20S	½ in	0.016"	WMP20S	**450F79**
DNMG442-MM5 WMP20S	½ in	0.031"	WMP20S	**450F81**
DNMG442-NMT WSM20S	½ in	0.031"	WSM20S	**449Y43**
DNMG443-RV5 WPV20	½ in	0.047"	WPV20	**450D62**
DPGW2(1.5)1FS-1 WDN10	¼ in	0.016"	WDN10	**450C19**
DPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C22**
DPMT2(1.5)1-FP4 WPP10S	¼ in	0.016"	WPP10S	**450A52**
DPMT3(2.5)2-FP4 WPP10S	⅜ in	0.031"	WPP10S	**450A54**
VBMT221-FM6 WSM10S	¼ in	0.016"	WSM10S	**449Z19**
VBMT331-FM6 WSM20S	⅜ in	0.016"	WSM20S	**450C28**
VBMT332-FM6 WSM20S	⅜ in	0.031"	WSM20S	**449Z45**
VBMT333-MK4 WKK10S	⅜ in	0.047"	WKK10S	**450C29**
VCGT(2(2)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X63**
VCGT2.5(2)0.2-MN2 WNN10	5/16 in	0.004"	WNN10	**449X26**
VCGT3(3)0.5-MM4 WSM20S	⅜ in	0.008"	WSM20S	**450F09**
VCGT221FS-1 WDN10	¼ in	0.016"	WDN10	**449W76**
VCGT331-MN WDN10	⅜ in	0.016"	WDN10	**449W94**
VCGT333-MN2 WNN10	⅜ in	0.047"	WNN10	**449X80**
VCGW22(0.5)FS-1 WDN10	¼ in	0.008"	WDN10	**449W90**
VCGW221FS-1 WDN10	¼ in	0.016"	WDN10	**449W91**
VCGW332FS-1 WDN10	⅜ in	0.031"	WDN10	**449W93**
VCGX3	0.375 in	0.008"	WXP30	**449W49**
VNGG3(3)0.2-MS3 WSM01	⅜ in	0.004"	WSM01	**449Y18**
VNGG3(3)0.5-MS3 WSM01	⅜ in	0.008"	WSM01	**449Y24**
VNGG331-MS3 WSM01	⅜ in	0.016"	WSM01	**449Y19**
VNMG3(3)0.5-FM5 WSM10S	⅜ in	0.008"	WSM10S	**450A99**
VNMG331-FM5 WSM20S	⅜ in	0.016"	WSM20S	**450C02**
VNMG331-FV5 WPV20	⅜ in	0.016"	WPV20	**450C66**
VNMG332-FV5 WPV20	⅜ in	0.031"	WPV20	**450C65**
VNMG332-MM5 WMP20S	⅜ in	0.031"	WMP20S	**450F71**
VNMG332-MM5 WSM10S	⅜ in	0.031"	WSM10S	**450D27**
Round				
N/A	0.3125 in	—	WK1	**30FP37**
RCGT2.6(2)-MN2 WNN10	0.315 in	0.157"	WNN10	**449X96**
RCGT43-MN2 WNN10	0.5 in	0.250"	WNN10	**449X98**
RCGX35E	0.375 in	—	WIS10	**30FP55**
RPGN32T01020 WIS10	0.375 in	0.177"	WIS10	**449W46**
RPGN43T01020 WIS10	0.5 in	0.236"	WIS10	**449W45**
Square				
SCGT3(2.5)1	⅜ in	0.0160"	WSM01	**53WE59**
SCGT3(2.5)1	⅜ in	0.0310"	WSM01	**53WE64**
SCGT3(2.5)1-FN2 WNN10	⅜ in	0.016"	WNN10	**449X73**
SCGT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WE65**
SCGT3(2.5)2	½ in	0.0310"	WSM01	**53WE71**
SCGT3(2.5)2	½ in	0.0310"	WSM20S	**53WE72**
SCGT3(2.5)2-FN2 WNN10	⅜ in	0.031"	WNN10	**449X54**
SCGT432	½ in	0.0310"	WPP20S	**53WE73**
SCGT432	⅜ in	0.0160"	WSM20S	**53WE61**
SCGT432	⅜ in	0.0310"	WPP20S	**53WE67**
SCGT432-MN2 WNN10	½ in	0.031"	WNN10	**449Y03**
SCGW3(2.5)1FS-9 WDN10	⅜ in	0.016"	WDN10	**449W66**
SCMT3(2.5)1	½ in	0.0310"	WSM20S	**53WF48**
SCMT3(2.5)1	½ in	0.0310"	WPP20S	**53WF50**
SCMT3(2.5)1	½ in	0.0470"	WSM30S	**53WF71**
SCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WE80**
SCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WF03**
SCMT3(2.5)1	⅜ in	0.0160"	WSM30S	**53WF04**
SCMT3(2.5)1	⅜ in	0.0310"	WMP20S	**53WF12**
SCMT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WF14**
SCMT3(2.5)1-FM6 WSM30S	⅜ in	0.016"	WSM30S	**449Z84**
SCMT3(2.5)2	½ in	0.0310"	WSM20S	**53WF53**
SCMT3(2.5)2	½ in	0.0310"	WPP20S	**53WF55**
SCMT3(2.5)2	⅜ in	0.0160"	WPP20S	**53WE82**
SCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53WE86**

CONTINUED

Turning Inserts

WALTER VALENITE

- Positive rake
- Screw mount
- Priced each, sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
SCMT3(2.5)2	3⁄8 in	0.0160"	WPP20S	53WE88
SCMT3(2.5)2	3⁄8 in	0.0310"	WSM20S	53WF35
SCMT3(2.5)2	3⁄8 in	0.0310"	WSM30S	53WF36
SCMT431	1⁄2 in	0.0310"	WSM30S	53WF67
SCMT431	3⁄8 in	0.0160"	WMP20S	53WF02
SCMT431	3⁄8 in	0.0310"	WPP20S	53WF16
SCMT432	1⁄2 in	0.0160"	WSM20S	53WF43
SCMT432	1⁄2 in	0.0310"	WSM20S	53WF66
SCMT432	1⁄2 in	0.0470"	WSM20S	53WF70
SCMT432	3⁄8 in	0.0160"	WMP20S	53WE89
SCMT432	3⁄8 in	0.0310"	WSM20S	53WF07
SCMT432	3⁄8 in	0.0310"	WPP20S	53WF09
SCMT432-MM4 WMP20S	1⁄2 in	0.031"	WMP20S	450C32
SCMT433	1⁄2 in	0.0160"	WSM30S	53WF44
SNGA432T02020 WCK10	1⁄2 in	0.031"	WCK10	450G18
SNGA434T02020 WCK10	1⁄2 in	0.063"	WCK10	450G21
SNGN433T02020 WCK10	1⁄2 in	0.047"	WCK10	450G23
SNGN454T02020 WCK10	1⁄2 in	0.063"	WCK10	450G29
SNMG431-MM5 WSM20S	1⁄2 in	0.016"	WSM20S	450D83
SNMG432-MV5 WPV20	1⁄2 in	0.031"	WPV20	450C81
SNMG433-MM5 WSM30S	1⁄2 in	0.047"	WSM30S	450D88
SNMG543-RM5 WSM30S	5⁄8 in	0.047"	WSM30S	450F37
SNMG643-NRS WSM10S	3⁄4 in	0.047"	WSM10S	450A01
SNMG644-RM5 WSM30S	3⁄4 in	0.063"	WSM30S	450F58
SPGW3(2.5)2FS-1 WDN10	3⁄8 in	0.031"	WDN10	450C23
Triangle				
TCGT1.2(1.2)0.2-FM2 WSM21	5⁄32 in	0.004"	WSM21	449Y58
TCGT1.8(1.5)1	1⁄4 in	0.0310"	WSM01	53WJ07
TCGT2(1.5)0.2	3⁄8 in	0.0160"	WSM01	53WJ11
TCGT2(1.5)0.2-FM2 WSM20S	1⁄4 in	0.004"	WSM20S	450F70
TCGT2(1.5)0.2-MN2 WNN10	1⁄4 in	0.004"	WNN10	449X78
TCGT2(1.5)0.5	3⁄8 in	0.0310"	WSM01	53WJ14
TCGT2(1.5)1	3⁄8 in	0.0160"	WSM20S	53WJ10
TCGT2(1.5)1-FN2 WNN10	1⁄4 in	0.016"	WNN10	449X60
TCGT2(1.5)1-MN2 WNN10	1⁄4 in	0.016"	WNN10	449X39
TCGT2(1.5)2	1⁄4 in	0.0160"	WSM01	53WJ03
TCGT2(1.5)2	1⁄4 in	0.0160"	WSM20S	53WJ04
TCGT3(2.5)0.5-FM2 WSM20S	3⁄8 in	0.008"	WSM20S	449Y63
TCGT3(2.5)1	3⁄8 in	0.0310"	WSM20S	53WJ13
TCGT3(2.5)1-MN2 WNN10	3⁄8 in	0.016"	WNN10	449X79
TCGT3(2.5)2	1⁄4 in	0.0160"	WSM01	53WJ05
TCGT3(2.5)2	1⁄4 in	0.0310"	WSM20S	53WJ08
TCGT3(2.5)2-MN2 WNN10	3⁄8 in	0.031"	WNN10	449Y05
TCMT1.8(1.5)0.5	3⁄8 in	0.0310"	WMP20S	53WK47
TCMT1.8(1.5)0.5	7⁄32 in	0.0080"	WSM20S	53WJ20
TCMT1.8(1.5)1	3⁄8 in	0.0470"	WMP20S	53WK72
TCMT1.8(1.5)1	3⁄8 in	0.0470"	WPP30S	53WK79
TCMT1.8(1.5)1	7⁄32 in	0.0160"	WSM20S	53WJ24
TCMT1.8(1.5)1	7⁄32 in	0.0160"	WSM20S	53WJ31
TCMT1.8(1.5)1	7⁄32 in	0.0160"	WSM20S	53WJ36
TCMT1.8(1.5)1	7⁄32 in	0.0160"	WPP20S	53WJ39
TCMT1.8(1.5)1	7⁄32 in	0.0310"	WPP20S	53WJ49
TCMT1.8(1.5)2	3⁄8 in	0.0310"	WMP20S	53WK44
TCMT1.8(1.5)2	7⁄32 in	0.0160"	WSM30S	53WJ37
TCMT1.8(1.5)2	7⁄32 in	0.0160"	WPP30S	53WJ40
TCMT1.8(1.5)2	7⁄32 in	0.0310"	WSM20S	53WJ47
TCMT1.8(1.5)2	7⁄32 in	0.0310"	WSM20S	53WJ52
TCMT1.8(1.5)2	7⁄32 in	0.0310"	WPP20S	53WJ55
TCMT2(1.5)0.5	1⁄4 in	0.0080"	WSM20S	53WJ59
TCMT2(1.5)0.5	7⁄32 in	0.0310"	WSM20S	53WJ42
TCMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53WJ68
TCMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53WJ76
TCMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53WJ85
TCMT2(1.5)1	1⁄4 in	0.0160"	WPP20S	53WJ88
TCMT2(1.5)1	1⁄4 in	0.0310"	WPP20S	53WK04
TCMT2(1.5)1	1⁄4 in	0.0310"	WMP20S	53WK07
TCMT2(1.5)1	3⁄8 in	0.0310"	WPP20S	53WK53
TCMT2(1.5)1	7⁄32 in	0.0310"	WSM30S	53WJ53
TCMT2(1.5)1	7⁄32 in	0.0310"	WPP30S	53WJ56
TCMT2(1.5)2	1⁄4 in	0.0160"	WMP20S	53WJ63
TCMT2(1.5)2	1⁄4 in	0.0160"	WPP20S	53WJ72
TCMT2(1.5)2	1⁄4 in	0.0160"	WPP30S	53WJ89
TCMT2(1.5)2	1⁄4 in	0.0310"	WSM20S	53WJ93
TCMT2(1.5)2	1⁄4 in	0.0310"	WSM20S	53WK02
TCMT2(1.5)2	3⁄8 in	0.0160"	WPP20S	53WK33
TCMT2(1.5)2	3⁄8 in	0.0310"	WPP20S	53WK59
TCMT2(1.5)2	3⁄8 in	0.0310"	WMP20S	53WK65
TCMT3(2.5)1	1⁄4 in	0.0310"	WPP20S	53WJ97
TCMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53WK30
TCMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53WK39
TCMT3(2.5)1	3⁄8 in	0.0160"	WSM30S	53WK40
TCMT3(2.5)1	3⁄8 in	0.0160"	WPP20S	53WK42
TCMT3(2.5)1	3⁄8 in	0.0310"	WSM20S	53WK49
TCMT3(2.5)2	1⁄4 in	0.0160"	WMP20S	53WJ66
TCMT3(2.5)2	1⁄4 in	0.0160"	WPP20S	53WJ78
TCMT3(2.5)2	1⁄4 in	0.0310"	WSM20S	53WK08
TCMT3(2.5)2	3⁄8 in	0.0160"	WSM20S	53WK21
TCMT3(2.5)2	3⁄8 in	0.0160"	WPP20S	53WK25
TCMT3(2.5)2	3⁄8 in	0.0160"	WMP20S	53WK28
TCMT3(2.5)2	3⁄8 in	0.0160"	WMP20S	53WK37
TCMT3(2.5)2	3⁄8 in	0.0160"	WPP30S	53WK43
TCMT3(2.5)2	3⁄8 in	0.0310"	WSM20S	53WK57
TCMT3(2.5)2	3⁄8 in	0.0310"	WSM20S	53WK67
TCMT3(2.5)2	3⁄8 in	0.0310"	WSM30S	53WK68
TCMT3(2.5)2	3⁄8 in	0.0470"	WSM30S	53WK76
TCMT3(2.5)2-FM6 WSM20S	3⁄8 in	0.031"	WSM20S	449Z18

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
TCMT3(2.5)3	1⁄4 in	0.0160"	WSM30S	53WJ86
TCMT3(2.5)3	1⁄4 in	0.0310"	WSM30S	53WK09
TCMT3(2.5)3	3⁄8 in	0.0310"	WPP30S	53WK71
TCMT3(2.5)3	3⁄8 in	0.0470"	WSM20S	53WK75
TCMT3(2.5)3	3⁄8 in	0.0470"	WPP20S	53WK78
TCMT432	7⁄32 in	0.0160"	WPP20S	53WJ33
TCMW2(1.5)2	3⁄8 in	0.0310"	WPP20S	53WK70
TNGA332T02020 WCK10	3⁄8 in	0.031"	WCK10	450G33
TNGA333T02020 WCK10	3⁄8 in	0.047"	WCK10	450G34
TNGN333T02020 WCK10	3⁄8 in	0.047"	WCK10	450G35
TNGN334T02020 WCK10	3⁄8 in	0.063"	WCK10	450G36
TNMG331-FM5 WMP20S	3⁄8 in	0.016"	WMP20S	450A95
TNMG331-MM5 WSM20S	3⁄8 in	0.016"	WSM20S	450D25
TNMG331-MS3 WSM01	3⁄8 in	0.016"	WSM01	449X08
TNMG331-MV5 WPV20	3⁄8 in	0.016"	WPV20	450C70
TNMG332-FM5 WSM20S	3⁄8 in	0.031"	WSM20S	450A69
TNMG332-MM5 WSM30S	3⁄8 in	0.031"	WSM30S	450D26
TNMG332-NMS WSM01	3⁄8 in	0.031"	WSM01	450F94
TNMG333-MM5 WSM30S	3⁄8 in	0.047"	WSM30S	450D95
TNMG431-MS3 WSM01	1⁄2 in	0.016"	WSM01	449X13
TNMG432-MS3 WSM10S	1⁄2 in	0.031"	WSM10S	449X14
TNMG432-RM5 WMP20S	1⁄2 in	0.031"	WMP20S	450F62
TNMG432-RM5 WSM30S	1⁄2 in	0.031"	WSM30S	450F14
TNMG433-RM5 WSM30S	1⁄2 in	0.047"	WSM30S	450F45
TPGT1.8(1.5)1	3⁄8 in	0.0310"	WSM01	53VG54
TPGT1.8(1.5)1 WSM01	7⁄32 in	0.016"	WSM01	450G25
TPGT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53VG46
TPGT2(1.5)1	1⁄4 in	0.0310"	WSM20S	53VG49
TPGT2(1.5)2	1⁄4 in	0.0160"	WSM01	53VG45
TPGT2(1.5)2	3⁄8 in	0.0160"	WSM20S	53VG52
TPGT3(2.5)1	1⁄4 in	0.0310"	WSM01	53VG48
TPGT3(2.5)1	3⁄8 in	0.0310"	WSM20S	53VG55
TPGT3(2.5)2	3⁄8 in	0.0160"	WSM01	53VG51
TPGW2(1.5)1FS-1 WDN10	1⁄4 in	0.016"	WDN10	450C24
TPGW3(2.5)2FS-1 WDN10	3⁄8 in	0.031"	WDN10	450C58
TPMT1.8(1.5)1	1⁄4 in	0.0160"	WPP20S	53VG70
TPMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53VG67
TPMT2(1.5)1	1⁄4 in	0.0310"	WPP20S	53VG73
TPMT2(1.5)1-FP4 WPP10S	1⁄4 in	0.016"	WPP10S	450A55
TPMT3(2.5)1	1⁄4 in	0.0160"	WMP20S	53VG66
TPMT3(2.5)1	3⁄8 in	0.0160"	WMP20S	53VG74
TPMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53VG75
TPMT3(2.5)1	3⁄8 in	0.0160"	WPP20S	53VG77
TPMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53WK31
TPMT3(2.5)1	3⁄8 in	0.0310"	WSM20S	53VG79
TPMT3(2.5)1	3⁄8 in	0.0310"	WPP20S	53VG80
TPMT3(2.5)1-FP4 WPP10S	3⁄8 in	0.016"	WPP10S	450A56
TPMT3(2.5)2	1⁄4 in	0.0160"	WSM20S	53VG69
Trigon				
WCGT1.8(1.5)0.5-FM2 WSM21	7⁄32 in	0.008"	WSM21	449Y72
WCGT1.8(1.5)1-MN2 WNN10	7⁄32 in	0.016"	WNN10	449X31
WCGT2(1.5)1-FN2 WNN10	1⁄4 in	0.016"	WNN10	449X69
WCGT432-MN2 WNN10	1⁄2 in	0.031"	WNN10	449X36
WCMT1.8(1.5)0.5	1⁄4 in	0.0160"	WPP20S	53VK78
WCMT2(1.5)0.5	1⁄4 in	0.0080"	WSM20S	53VK59
WCMT2(1.5)0.5	1⁄4 in	0.0080"	WSM20S	53VK63
WCMT2(1.5)1	1⁄4 in	0.0080"	WSM30S	53VK64
WCMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53VK66
WCMT2(1.5)1	1⁄4 in	0.0160"	WSM20S	53VK75
WCMT2(1.5)1	3⁄8 in	0.0160"	WPP20S	53VL05
WCMT2(1.5)2	1⁄4 in	0.0160"	WPP20S	53VK70
WCMT3(2.5)1	1⁄4 in	0.0160"	WSM30S	53VK76
WCMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53VK87
WCMT3(2.5)1	3⁄8 in	0.0160"	WSM20S	53VL02
WCMT3(2.5)1	3⁄8 in	0.0310"	WSM20S	53VL13
WCMT3(2.5)1	3⁄8 in	0.0310"	WPP20S	53VL14
WCMT3(2.5)1	3⁄8 in	0.0310"	WPP20S	53VL26
WCMT3(2.5)2	1⁄2 in	0.0160"	WPP20S	53VL31
WCMT3(2.5)2	1⁄4 in	0.0310"	WPP20S	53VK82
WCMT3(2.5)2	3⁄8 in	0.0160"	WSM20S	53VK92
WCMT3(2.5)2	3⁄8 in	0.0160"	WPP20S	53VK93
WCMT3(2.5)2	3⁄8 in	0.0160"	WSM30S	53VL03
WCMT3(2.5)2	3⁄8 in	0.0310"	WSM20S	53VL08
WCMT3(2.5)2	3⁄8 in	0.0310"	WPP20S	53VL11
WCMT3(2.5)2	3⁄8 in	0.0310"	WSM20S	53VL23
WCMT3(2.5)2	3⁄8 in	0.0310"	WPP30S	53VL27
WCMT431	1⁄2 in	0.0470"	WSM30S	53VL43
WCMT432	1⁄2 in	0.0310"	WSM20S	53VL36
WCMT432	1⁄2 in	0.0310"	WPP30S	53VL40
WCMT432	3⁄8 in	0.0310"	WSM30S	53VL24
WCMT433	1⁄2 in	0.0310"	WSM30S	53VL37
WCMT433	1⁄2 in	0.0310"	WPP20S	53VL39
WCMT433	1⁄2 in	0.0470"	WSM20S	53VL42
WCMT433	1⁄2 in	0.0470"	WPP30S	53VL46
WNGA432T02020 WCK10	1⁄2 in	0.031"	WCK10	450G37
WNMA431	1⁄2 in	0.0470"	WPP20S	53VL45
WNMG331-FM5 WSM10S	3⁄8 in	0.016"	WSM10S	450C05
WNMG332-MV5 WPV10	3⁄8 in	0.031"	WPV10	450C84
WNMG431-MM5 WSM30S	1⁄2 in	0.016"	WSM30S	450C96
WNMG432-FM5 WMP20S	1⁄2 in	0.031"	WMP20S	450A70
WNMG432-FV5 WPV20	1⁄2 in	0.031"	WPV20	450C68
WNMG432-MV5 WPV10	1⁄2 in	0.031"	WPV10	450C87
WNMG432-NM WSM20S	1⁄2 in	0.031"	WSM20S	450A42
WNMG432-NRS WSM10S	1⁄2 in	0.031"	WSM10S	450A05
WNMG433-MM5 WSM20S	1⁄2 in	0.047"	WSM20S	450D01
WNMG542-MM5 WSM30S	5⁄8 in	0.031"	WSM30S	450D11

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

CNMG 

DNMG 

VNMG 

KYOCERA

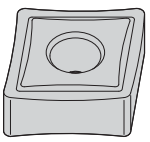
Turning Inserts

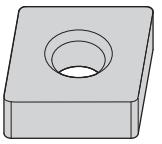
- Negative rake
- Clamp mount
- Priced each, sold in pkg. of 10 only

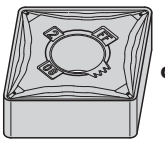
ISO Grade	Application	First Choice Grades
P	Steel	CA515, CA525, CA530
K	Cast Iron	CA310, CA315

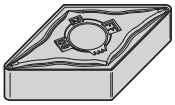
ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CNMG431KG-CA310	0.500"	0.0156"	CA310	**53LD41**
CNMG431KG-CA315	0.500"	0.0156"	CA315	**53LD42**
CNMG431PG-CA515	0.500"	0.0156"	CA515	**53LD45**
CNMG431PG-CA525	0.500"	0.0156"	CA525	**53LD46**
CNMG431PP-CA515	0.500"	0.0156"	CA515	**53LD49**
CNMG431PQ-CA515	0.500"	0.0156"	CA515	**53LD53**
CNMG431PQ-CA525	0.500"	0.0156"	CA525	**53LD54**
CNMG432KG-CA310	0.500"	0.0313"	CA310	**53LE11**
CNMG432KG-CA315	0.500"	0.0313"	CA315	**53LE12**
CNMG432KH-CA310	0.500"	0.0313"	CA310	**53LE14**
CNMG432KH-CA315	0.500"	0.0313"	CA315	**53LE15**
CNMG432PG-CA515	0.500"	0.0313"	CA515	**53LE18**
CNMG432PG-CA525	0.500"	0.0313"	CA525	**53LE19**
CNMG432PH-CA315	0.500"	0.0313"	CA315	**53LE26**
CNMG432PH-CA515	0.500"	0.0313"	CA515	**53LE22**
CNMG432PP-CA515	0.500"	0.0313"	CA515	**53LE29**
CNMG432PQ-CA515	0.500"	0.0313"	CA515	**53LE33**
CNMG432PQ-CA525	0.500"	0.0313"	CA525	**53LE34**
CNMG433KG-CA310	0.500"	0.0469"	CA310	**53LE97**
CNMG433KG-CA315	0.500"	0.0469"	CA315	**53LE98**
CNMG433KH-CA310	0.500"	0.0469"	CA310	**53LF01**
CNMG433KH-CA315	0.500"	0.0469"	CA315	**53LF02**
CNMG433PG-CA515	0.500"	0.0469"	CA515	**53LF05**
CNMG433PG-CA525	0.500"	0.0469"	CA525	**53LF06**
CNMG433PH-CA315	0.500"	0.0469"	CA315	**53LF13**
CNMG433PH-CA515	0.500"	0.0469"	CA515	**53LF09**
CNMG433PH-CA525	0.500"	0.0469"	CA525	**53LF10**
CNMG433PH-CA530	0.500"	0.0469"	CA530	**53LF11**
CNMG433PP-CA515	0.500"	0.0469"	CA515	**53LF16**
CNMG433PQ-CA515	0.500"	0.0469"	CA515	**53LF20**
CNMG433PQ-CA525	0.500"	0.0469"	CA525	**53LF21**
CNMG434PG-CA515	0.500"	0.0625"	CA515	**53LF39**
CNMG434PG-CA525	0.500"	0.0625"	CA525	**53LF40**
CNMG434PH-CA515	0.500"	0.0625"	CA515	**53LF43**
CNMG434PH-CA525	0.500"	0.0625"	CA525	**53LF44**
CNMG434PH-CA530	0.500"	0.0625"	CA530	**53LF45**
CNMG542PH-CA515	0.625"	0.0313"	CA515	**53LF57**
CNMG542PH-CA525	0.625"	0.0313"	CA525	**53LF58**
CNMG542PH-CA530	0.625"	0.0313"	CA530	**53LF59**
CNMG543PH-CA315	0.625"	0.0469"	CA315	**53LF85**
CNMG543PH-CA515	0.625"	0.0469"	CA515	**53LF81**
CNMG543PH-CA525	0.625"	0.0469"	CA525	**53LF82**
CNMG543PH-CA530	0.625"	0.0469"	CA530	**53LF83**
CNMG544PH-CA315	0.625"	0.0625"	CA315	**53LG08**
CNMG544PH-CA515	0.625"	0.0625"	CA515	**53LG04**
CNMG544PH-CA525	0.625"	0.0625"	CA525	**53LG05**
CNMG544PH-CA530	0.625"	0.0625"	CA530	**53LG06**
CNMG642PH-CA515	0.750"	0.0313"	CA515	**53LG22**
CNMG642PH-CA525	0.750"	0.0313"	CA525	**53LG23**
CNMG642PH-CA530	0.750"	0.0313"	CA530	**53LG24**
CNMG643PH-CA515	0.750"	0.0469"	CA515	**53LG33**
CNMG643PH-CA525	0.750"	0.0469"	CA525	**53LG34**
CNMG643PH-CA530	0.750"	0.0469"	CA530	**53LG35**
CNMG644PH-CA515	0.750"	0.0625"	CA515	**53LG44**
CNMG644PH-CA525	0.750"	0.0625"	CA525	**53LG45**
CNMG644PH-CA530	0.750"	0.0625"	CA530	**53LG46**
CNMG646PH-CA515	0.750"	0.0938"	CA515	**53LG48**
CNMG646PH-CA525	0.750"	0.0938"	CA525	**53LG49**
CNMG646PH-CA530	0.750"	0.0938"	CA530	**53LG50**
CNMG4305PP-CA515	0.500"	0.0079"	CA515	**53LD12**
DNMG431KG-CA310	0.500"	0.0156"	CA310	**53LK58**
DNMG431KG-CA315	0.500"	0.0156"	CA315	**53LK59**
DNMG431PG-CA515	0.500"	0.0156"	CA515	**53LK62**
DNMG431PG-CA525	0.500"	0.0156"	CA525	**53LK63**
DNMG431PP-CA515	0.500"	0.0156"	CA515	**53LK66**
DNMG431PQ-CA515	0.500"	0.0156"	CA515	**53LK70**
DNMG431PQ-CA525	0.500"	0.0156"	CA525	**53LK71**
DNMG432KG-CA310	0.500"	0.0313"	CA310	**53LL20**
DNMG432KG-CA315	0.500"	0.0313"	CA315	**53LL21**
DNMG432KH-CA310	0.500"	0.0313"	CA310	**53LL23**
DNMG432KH-CA315	0.500"	0.0313"	CA315	**53LL24**
DNMG432PG-CA515	0.500"	0.0313"	CA515	**53LL27**
DNMG432PG-CA525	0.500"	0.0313"	CA525	**53LL28**
DNMG432PH-CA315	0.500"	0.0313"	CA315	**53LL35**
DNMG432PH-CA515	0.500"	0.0313"	CA515	**53LL31**
DNMG432PH-CA525	0.500"	0.0313"	CA525	**53LL32**
DNMG432PH-CA530	0.500"	0.0313"	CA530	**53LL33**
DNMG432PP-CA515	0.500"	0.0313"	CA515	**53LL38**
DNMG432PQ-CA515	0.500"	0.0313"	CA515	**53LL42**
DNMG432PQ-CA525	0.500"	0.0313"	CA525	**53LL43**
DNMG433KG-CA310	0.500"	0.0469"	CA310	**53LL94**
DNMG433KG-CA315	0.500"	0.0469"	CA315	**53LL95**
DNMG433KH-CA310	0.500"	0.0469"	CA310	**53LL97**
DNMG433KH-CA315	0.500"	0.0469"	CA315	**53LL98**
DNMG433PG-CA515	0.500"	0.0469"	CA515	**53LM02**
DNMG433PG-CA525	0.500"	0.0469"	CA525	**53LM03**
DNMG433PH-CA315	0.500"	0.0469"	CA315	**53LM10**
DNMG433PH-CA515	0.500"	0.0469"	CA515	**53LM06**
DNMG433PH-CA525	0.500"	0.0469"	CA525	**53LM07**
DNMG433PH-CA530	0.500"	0.0469"	CA530	**53LM08**
DNMG433PP-CA515	0.500"	0.0469"	CA515	**53LM13**
DNMG433PQ-CA515	0.500"	0.0469"	CA515	**53LM17**
DNMG433PQ-CA525	0.500"	0.0469"	CA525	**53LM18**
DNMG434PG-CA515	0.500"	0.0625"	CA515	**53LM32**
DNMG434PG-CA525	0.500"	0.0625"	CA525	**53LM33**
DNMG434PH-CA525	0.500"	0.0625"	CA525	**53LM35**
DNMG434PH-CA530	0.500"	0.0625"	CA530	**53LM36**
DNMG441PG-CA515	0.500"	0.0156"	CA515	**53LM52**
DNMG441PG-CA525	0.500"	0.0156"	CA525	**53LM53**
DNMG441PP-CA515	0.500"	0.0156"	CA515	**53LM56**
DNMG441PQ-CA515	0.500"	0.0156"	CA515	**53LM60**
DNMG441PQ-CA525	0.500"	0.0156"	CA525	**53LM61**
DNMG442PG-CA515	0.500"	0.0313"	CA515	**53LM90**
DNMG442PG-CA525	0.500"	0.0313"	CA525	**53LM91**
DNMG442PH-CA515	0.500"	0.0313"	CA515	**53LM94**
DNMG442PH-CA525	0.500"	0.0313"	CA525	**53LM95**
DNMG442PH-CA530	0.500"	0.0313"	CA530	**53LM96**
DNMG442PP-CA515	0.500"	0.0313"	CA515	**53LM98**
DNMG442PQ-CA515	0.500"	0.0313"	CA515	**53LN03**
DNMG442PQ-CA525	0.500"	0.0313"	CA525	**53LN04**
DNMG443PG-CA515	0.500"	0.0469"	CA515	**53LN35**
DNMG443PG-CA525	0.500"	0.0469"	CA525	**53LN36**
DNMG443PH-CA515	0.500"	0.0469"	CA515	**53LN39**
DNMG443PH-CA525	0.500"	0.0469"	CA525	**53LN40**
DNMG443PH-CA530	0.500"	0.0469"	CA530	**53LN41**
DNMG443PP-CA515	0.500"	0.0469"	CA515	**53LN43**
DNMG443PQ-CA515	0.500"	0.0469"	CA515	**53LN47**
DNMG443PQ-CA525	0.500"	0.0469"	CA525	**53LN48**
DNMG444PG-CA515	0.500"	0.0625"	CA515	**53LN59**
DNMG444PG-CA525	0.500"	0.0625"	CA525	**53LN60**
DNMG444PH-CA515	0.500"	0.0625"	CA515	**53LN63**
DNMG444PH-CA525	0.500"	0.0625"	CA525	**53LN64**
DNMG444PH-CA530	0.500"	0.0625"	CA530	**53LN65**
DNMG4305PP-CA515	0.500"	0.0079"	CA515	**53LK29**
DNMG4405PP-CA515	0.500"	0.0079"	CA515	**53LM38**
VNMG331PP-CA515	0.375"	0.0156"	CA515	**53LZ49**
VNMG331PQ-CA515	0.375"	0.0156"	CA515	**53LZ53**
VNMG331PQ-CA525	0.375"	0.0156"	CA525	**53LZ54**
VNMG331VF-CA515	0.375"	0.0156"	CA515	**53LZ57**
VNMG331VF-CA525	0.375"	0.0156"	CA525	**53LZ58**
VNMG332PP-CA515	0.375"	0.0313"	CA515	**53LZ73**
VNMG332PQ-CA515	0.375"	0.0313"	CA515	**53LZ77**
VNMG332PQ-CA525	0.375"	0.0313"	CA525	**53LZ78**
VNMG332VF-CA515	0.375"	0.0313"	CA515	**53LZ81**
VNMG332VF-CA525	0.375"	0.0313"	CA525	**53LZ82**
VNMG333PP-CA515	0.375"	0.0469"	CA515	**53LZ89**
VNMG333PQ-CA515	0.375"	0.0469"	CA515	**53LZ93**
VNMG333PQ-CA525	0.375"	0.0469"	CA525	**53LZ94**
VNMG333VF-CA515	0.375"	0.0469"	CA515	**53LZ97**
VNMG333VF-CA525	0.375"	0.0469"	CA525	**53LZ98**
VNMG3305PP-CA515	0.375"	0.0079"	CA515	**53LZ33**

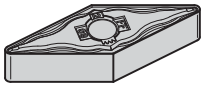
For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards


CNGP


CNMA


CNMG


DNMG


VNMG

WIDIA

Turning Inserts

▪ Negative rake ▪ Clamp mount ▪ Priced each, sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grades
P	Steel	WK20CT, WM25CT, WP15CT, WP25CT, WS10PT, WS25PT
M	Stainless Steel	WM25CT, WS10PT, WS25CT
K	Cast Iron	WK20CT, WP15CT, WP25CT, WS10PT, WS25PT
S	Super Alloy	WM25CT, WS10PT, WS25PT

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CNGP430	0.5000"	0.004"	WS10PT	**433W54**
CNGP431	0.5000"	0.016"	WS10PT	**433W56**
CNGP4305	0.5000"	0.008"	WS10PT	**433W55**
CNMA431	0.5000"	0.016"	WK20CT	**433T97**
CNMA432	0.5000"	0.031"	WK20CT	**433T98**
CNMA433	0.5000"	0.047"	WK20CT	**433T99**
CNMA434	0.5000"	0.063"	WK20CT	**433U01**
CNMA543	0.6250"	0.047"	WK20CT	**433U03**
CNMA544	0.6250"	0.063"	WK20CT	**433U04**
CNMG431FF	0.5000"	0.016"	WP15CT	**433P25**
CNMG431MR	0.5000"	0.016"	WP25CT	**433N22**
CNMG431MR	0.5000"	0.016"	WP15CT	**433R10**
CNMG431MS	0.5000"	0.016"	WS10PT	**433Y80**
CNMG431MS	0.5000"	0.016"	WS25PT	**433Y81**
CNMG431UM	0.5000"	0.016"	WM25CT	**433U78**
CNMG431UR	0.500"	0.016"	WS25PT	**433W89**
CNMG431UR	0.5000"	0.016"	WM25CT	**433K27**
CNMG431UR	0.5000"	0.016"	WP25CT	**433M78**
CNMG431UR	0.5000"	0.016"	WS10PT	**433W88**
CNMG432FF	0.5000"	0.031"	WP15CT	**433P26**
CNMG432MR	0.5000"	0.031"	WP25CT	**433N23**
CNMG432MR	0.5000"	0.031"	WP15CT	**433R11**
CNMG432MS	0.5000"	0.031"	WS10PT	**433Y83**
CNMG432MS	0.5000"	0.031"	WS25PT	**433Y84**
CNMG432RH	0.5000"	0.031"	WP15CT	**433N97**
CNMG432RH	0.5000"	0.031"	WP25CT	**433R80**
CNMG432RH	0.5000"	0.031"	WK20CT	**433U35**
CNMG432UM	0.5000"	0.031"	WM25CT	**433U79**
CNMG432UR	0.500"	0.031"	WS10PT	**433V99**
CNMG432UR	0.500"	0.031"	WS25PT	**433W01**
CNMG432UR	0.5000"	0.031"	WM25CT	**433K28**
CNMG432UR	0.5000"	0.031"	WP25CT	**433M79**
CNMG433MR	0.5000"	0.047"	WP25CT	**433N24**
CNMG433MR	0.5000"	0.047"	WP15CT	**433R12**
CNMG433MS	0.5000"	0.047"	WS10PT	**433Y86**
CNMG433MS	0.5000"	0.047"	WS25PT	**433Y87**
CNMG433RH	0.5000"	0.047"	WP15CT	**433N98**
CNMG433RH	0.5000"	0.047"	WP25CT	**433R81**
CNMG433RH	0.5000"	0.047"	WK20CT	**433U36**
CNMG433UR	0.500"	0.047"	WS10PT	**433W02**
CNMG433UR	0.500"	0.047"	WS25PT	**433W03**
CNMG433UR	0.5000"	0.047"	WM25CT	**433K29**
CNMG433UR	0.5000"	0.047"	WP25CT	**433M80**
CNMG434MR	0.5000"	0.063"	WP25CT	**433Y08**
CNMG434MS	0.5000"	0.063"	WS10PT	**433Y89**
CNMG434RH	0.5000"	0.063"	WP25CT	**433R82**
CNMG434UR	0.5000"	0.063"	WM25CT	**433K30**
CNMG434UR	0.5000"	0.063"	WP25CT	**433M81**
CNMG434UR	0.5000"	0.063"	WS10PT	**433X84**
CNMG542MR	0.6250"	0.031"	WP25CT	**433N25**
CNMG542MR	0.6250"	0.031"	WP15CT	**433R14**
CNMG542MS	0.6250"	0.031"	WS10PT	**433Y92**
CNMG542MS	0.6250"	0.031"	WS25PT	**433Y93**
CNMG542RH	0.6250"	0.031"	WP25CT	**433R83**
CNMG542RH	0.6250"	0.031"	WK20CT	**433U38**
CNMG542UR	0.6250"	0.031"	WM25CT	**433K31**
CNMG542UR	0.6250"	0.031"	WP25CT	**433M82**
CNMG543MR	0.6250"	0.047"	WP25CT	**433N26**
CNMG543MR	0.6250"	0.047"	WP15CT	**433R15**
CNMG543MS	0.6250"	0.047"	WS10PT	**433Y95**
CNMG543MS	0.6250"	0.047"	WS25PT	**433Y96**
CNMG543RH	0.6250"	0.047"	WP15CT	**433P02**
CNMG543RH	0.6250"	0.047"	WP25CT	**433R84**
CNMG543RH	0.6250"	0.047"	WK20CT	**433U39**
CNMG543UR	0.625"	0.047"	WS10PT	**433W90**
CNMG543UR	0.6250"	0.047"	WM25CT	**433K32**
CNMG543UR	0.6250"	0.047"	WP25CT	**433M83**
CNMG544MR	0.6250"	0.063"	WP25CT	**433N27**
CNMG544MR	0.6250"	0.063"	WP15CT	**433R16**
CNMG544RH	0.6250"	0.063"	WP25CT	**433R85**
CNMG544RH	0.6250"	0.063"	WS10PT	**433U40**
CNMG642MS	0.7500"	0.031"	WS10PT	**433Y98**
CNMG642MS	0.7500"	0.031"	WS25PT	**433Y99**
CNMG642RH	0.7500"	0.031"	WP15CT	**433P04**
CNMG642RH	0.7500"	0.031"	WP25CT	**433R86**
CNMG643MR	0.7500"	0.047"	WP25CT	**433N28**
CNMG643MR	0.7500"	0.047"	WP15CT	**433R17**
CNMG643MS	0.7500"	0.047"	WS10PT	**433Z02**
CNMG643MS	0.7500"	0.047"	WS25PT	**433Z03**
CNMG643RH	0.7500"	0.047"	WP15CT	**433P05**
CNMG643RH	0.7500"	0.047"	WP25CT	**433R87**
CNMG643RH	0.7500"	0.047"	WK20CT	**433U42**
CNMG643UR	0.750"	0.047"	WS25PT	**433W16**
CNMG643UR	0.7500"	0.047"	WM25CT	**433K34**
CNMG643UR	0.7500"	0.047"	WP25CT	**433M85**
CNMG644MR	0.7500"	0.063"	WP25CT	**433N31**
CNMG644MR	0.7500"	0.063"	WP15CT	**433R18**
CNMG644MS	0.7500"	0.063"	WS10PT	**433Z05**
CNMG644MS	0.7500"	0.063"	WS25PT	**433Z06**
CNMG644RH	0.7500"	0.063"	WP15CT	**433P06**
CNMG644RH	0.7500"	0.063"	WP25CT	**433R88**
CNMG646RH	0.7500"	0.094"	WP25CT	**433R89**
DNMG332FF	0.3750"	0.031"	WP15CT	**433P29**
DNMG332MR	0.3750"	0.031"	WP25CT	**433N32**
DNMG332MR	0.3750"	0.031"	WP15CT	**433R19**
DNMG332MS	0.3750"	0.031"	WS10PT	**433Z08**
DNMG332MS	0.3750"	0.031"	WS25PT	**433Z09**
DNMG431FF	0.5000"	0.016"	WP15CT	**433P30**
DNMG431MR	0.5000"	0.016"	WP25CT	**433N33**
DNMG431MR	0.5000"	0.016"	WP15CT	**433R20**
DNMG431MS	0.5000"	0.016"	WS10PT	**433Z11**
DNMG431MS	0.5000"	0.016"	WS25PT	**433Z12**
DNMG431UM	0.5000"	0.016"	WM25CT	**433U84**
DNMG432FF	0.5000"	0.031"	WP15CT	**433P31**
DNMG432MR	0.5000"	0.031"	WP25CT	**433N34**
DNMG432MR	0.5000"	0.031"	WP15CT	**433R21**
DNMG432MS	0.5000"	0.031"	WS10PT	**433Z14**
DNMG432MS	0.5000"	0.031"	WS25PT	**433Z15**
DNMG432RH	0.5000"	0.031"	WP25CT	**433R90**
DNMG432RH	0.5000"	0.031"	WK20CT	**433U44**
DNMG432UM	0.5000"	0.031"	WM25CT	**433U85**
DNMG432UR	0.5000"	0.031"	WM25CT	**433K37**
DNMG432UR	0.5000"	0.031"	WP25CT	**433M89**
DNMG432UR	0.5000"	0.031"	WS25PT	**433W94**
DNMG433MR	0.5000"	0.047"	WP25CT	**433N35**
DNMG433MR	0.5000"	0.047"	WP15CT	**433R22**
DNMG433MS	0.5000"	0.047"	WS10PT	**433Z17**
DNMG433MS	0.5000"	0.047"	WS25PT	**433Z18**
DNMG433UR	0.5000"	0.047"	WP25CT	**433M90**
DNMG433UR	0.5000"	0.047"	WS25PT	**433W96**
DNMG543RH	0.6250"	0.047"	WP15CT	**433P09**
DNMG543RH	0.6250"	0.047"	WP25CT	**433R95**
VNMG331FF	0.3750"	0.016"	WP15CT	**433P43**
VNMG331MS	0.3750"	0.016"	WS10PT	**433Z56**
VNMG331MS	0.3750"	0.016"	WS25PT	**433Z57**
VNMG332FF	0.3750"	0.031"	WP15CT	**433P44**
VNMG332MR	0.3750"	0.031"	WP25CT	**433N48**
VNMG332MR	0.3750"	0.031"	WP15CT	**433R35**
VNMG332MS	0.3750"	0.031"	WS10PT	**433Z59**
VNMG332MS	0.3750"	0.031"	WS25PT	**433Z60**
VNMG332RH	0.3750"	0.031"	WP25CT	**433T15**
VNMG332UR	0.3750"	0.031"	WM25CT	**433K56**
VNMG332UR	0.3750"	0.031"	WP25CT	**433N08**
VNMG431MS	0.5000"	0.016"	WS10PT	**433Z62**
VNMG431MS	0.5000"	0.016"	WS25PT	**433Z63**
VNMG432MS	0.5000"	0.031"	WS10PT	**433Z65**
VNMG432MS	0.5000"	0.031"	WS25PT	**433Z66**
VNMG432RH	0.5000"	0.031"	WP25CT	**433T16**
VNMG433RH	0.5000"	0.047"	WP15CT	**433P21**
VNMG433RH	0.5000"	0.047"	WP25CT	**433T17**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

WALTER

Grooving Tool Holder



LEFT HAND		RIGHT HAND	
ANSI No.	Item No.	ANSI No.	Item No.
For Use With GX Series Inserts			
G1011.1616L-2T21GX24	**35RG83**	—	—
For Use With SX Series Inserts			
G2012.08L-3T16SX-P	**35RF62**	G2012.08R-3T16SX-P	**35RF64**
G2012.08L-2T16SX-P	**35RF61**	G2012.08R-2T16SX-P	**35RF63**
G2012.10L-3T16SX-P	**35RF66**	G2012.10R-3T16SX-P	**35RF68**
G2012.10L-2T16SX-P	**35RF65**	G2012.10R-2T16SX-P	**35RF67**
G2012.12L-2T20SX-P	**35RF69**	G2012.12R-2T20SX-P	**35RF70**
G2012.1212L-3T16SX-P	**35RF46**	G2012.1212R-3T16SX-P	**35RF48**
G2012.1212L-2T16SX-P	**35RF45**	G2012.1212R-2T16SX-P	**35RF47**
G2012.16L-6T40SX-P	**35RF74**	G2012.16R-6T40SX-P	**35RF76**
G2012.16L-5T40SX-P	**35RF73**	G2012.16R-5T40SX-P	**35RF75**

LEFT HAND		RIGHT HAND	
ANSI No.	Item No.	ANSI No.	Item No.
G2012.1616L-3T16SX-P	**35RF50**	G2012.1616R-3T16SX-P	**35RF52**
G2012.1616L-2T16SX-P	**35RF49**	G2012.1616R-2T16SX-P	**35RF51**
G2012.2020L-2T20SX-P	**35RF53**	G2012.2020R-2T20SX-P	**35RF54**
G2012.2525L-6T40SX-P	**35RF58**	G2012.2525R-6T40SX-P	**35RF60**
G2012.2525L-5T40SX-P	**35RF57**	G2012.2525R-5T40SX-P	**35RF59**
G2042.26L-3T33SX-C	**35RG74**	G2042.26R-3T33SX-C	**35RG76**
G2042.32L-4T33SX-C	**35RG79**	G2042.32R-4T33SX-C	**35RG82**

WALTER

Indexable Grooving Inserts



- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grade
K	Cast Iron	WAK20, WKP13S, WKP23S, WKP33S, WPP23
N	Non Ferrous	WK1
M	Stainless	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43
P	Steel	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43, WKP13S, WKP23S , WKP33S, WPP23
S	Super Alloy	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43

ANSI No.	Style	W	Grade	Item No.
Left Hand				
GX24-2E300L6-CE4	GX24	3.00mm	WKP23S	**35RG41**
FX4.1-E410L6-CE4 WSM33	Pressed	4.10mm	WSM33	**30ET81**
GX16-0E150L10-CF6 WSM33S	Pressed	1.50mm	WSM33S	**30EU46**
GX16-1E200L6-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EU53**
GX16-1E200L6-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EU59**
GX16-1E200L6-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EU65**
GX16-1E250L6-CF5 WSM33S	Pressed	2.50mm	WSM33S	**30EV40**
GX16-2E300L6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EW44**
GX16-2E300L6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EW48**
GX24-2E300L6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EX97**
GX24-2E300L6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY02**
GX24-2E300L6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY07**
GX24-3E400L6-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ08**
GX24-3E400L6-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ13**
GX16-1E200L6-CF5 WSM43S	Pressed	2.00mm	WSM43S	**30EU61**
GX24-2E300L6-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EX98**
GX24-2E300L6-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY04**
Neutral				
GX09-1E200N02-GD3	GX09	2.00mm	WKP23S	**35RG28**
GX09-1E250N02-GD3	GX09	2.50mm	WKP23S	**35RG29**
GX09-2E300N03-GD3	GX09	3.00mm	WKP23S	**35RG30**
GX16-1E200N02-GD3	GX16	2.00mm	WKP23S	**35RG32**
GX16-1E200N02-UA4	GX16	2.00mm	WKP13S	**35RG56**
GX16-1E200N02-UD4	GX16	2.00mm	WKP23S	**35RF80**
GX16-1E200N02-UD4	GX16	2.00mm	WSM33S	**35RF81**
GX16-1E200N02-UF4	GX16	2.00mm	WKP23S	**35RF88**
GX16-1E200N10-RD4	GX16	2.00mm	WKP23S	**35RG47**
GX16-1E250N02-GD3	GX16	2.50mm	WKP23S	**35RG33**
GX16-1E250N02-UF4	GX16	2.50mm	WKP23S	**35RF89**
GX16-2E300N03-GD3	GX16	3.00mm	WKP23S	**35RG34**
GX16-2E300N03-UA4	GX16	3.00mm	WKP33S	**35RG57**
GX16-2E300N03-UA4	GX16	3.00mm	WKP13S	**35RG58**
GX16-2E300N03-UD4	GX16	3.00mm	WKP23S	**35RF82**
GX16-2E300N03-UD4	GX16	3.00mm	WSM33S	**35RF83**
GX16-2E300N03-UF4	GX16	3.00mm	WKP23S	**35RF90**
GX16-2E300N15-RD4	GX16	3.00mm	WSM23S	**35RG89**
GX16-2E300N15-RD4	GX16	3.00mm	WSM33S	**35RG90**
GX24-3E400N20-RD4	GX24	4.00mm	WKP23S	**35RG50**
GX16-3E400N04-GD3	GX16	4.00mm	WKP23S	**35RG35**
GX16-3E400N04-UA4	GX16	4.00mm	WKP33S	**35RG59**
GX16-3E400N04-UA4	GX16	4.00mm	WKP13S	**35RG60**
GX16-3E400N04-UD4	GX16	4.00mm	WKP23S	**35RF84**
GX16-3E400N04-UD4	GX16	4.00mm	WSM33S	**35RF85**
GX16-3E400N04-UF4	GX16	4.00mm	WKP23S	**35RF91**
GX16-3E500N04-GD3	GX16	5.00mm	WKP23S	**35RG36**
GX16-3E500N04-UD4	GX16	5.00mm	WKP23S	**35RF86**
GX16-3E500N04-UD4	GX16	5.00mm	WSM33S	**35RF87**
GX16-3E500N04-UF4	GX16	5.00mm	WKP23S	**35RF92**
GX16-4E600N05-UA4	GX16	6.00mm	WKP13S	**35RG64**
GX16-4E600N05-UF4	GX16	6.00mm	WKP23S	**35RF93**
GX24-2E300N02-CE4	GX24	3.00mm	WKP23S	**35RG42**
GX24-2E300N03-GD3	GX24	3.00mm	WKP23S	**35RG37**
GX24-2E300N03-UA4	GX24	3.00mm	WKP33S	**35RG65**
GX24-2E300N03-UA4	GX24	3.00mm	WKP13S	**35RG66**
GX24-2E300N03-UD4	GX24	3.00mm	WKP23S	**35RG04**
GX24-2E300N03-UD4	GX24	3.00mm	WKP13S	**35RG14**
GX24-2E300N03-UD4	GX24	3.00mm	WKP33S	**35RG21**
GX24-2E300N03-UF4	GX24	3.00mm	WKP23S	**35RF94**
GX24-2E300N15-RD4	GX24	3.00mm	WKP23S	**35RG48**
GX24-2E318N03-UD4	GX24	3.18mm	WKP23S	**35RG05**
GX24-2E318N16-RD4	GX24	3.18mm	WKP23S	**35RG49**
GX24-3E400N03-CE4	GX24	4.00mm	WKP23S	**35RG44**
GX24-3E400N04-GD3	GX24	4.00mm	WKP23S	**35RG38**
GX24-3E400N04-UA4	GX24	4.00mm	WKP33S	**35RG67**
GX24-3E400N04-UA4	GX24	4.00mm	WKP13S	**35RG68**
GX24-3E400N04-UD4	GX24	4.00mm	WKP23S	**35RG06**
GX24-3E400N04-UD4	GX24	4.00mm	WKP13S	**35RG15**
GX24-3E400N04-UD4	GX24	4.00mm	WKP33S	**35RG22**
GX24-3E400N04-UF4	GX24	4.00mm	WKP23S	**35RF95**
GX24-3E400N08-UD4	GX24	4.00mm	WKP23S	**35RG07**
GX24-3E400N08-UD4	GX24	4.00mm	WKP13S	**35RG16**
GX24-3E400N08-UD4	GX24	4.00mm	WKP33S	**35RG23**
GX24-3E400N08-UF4	GX24	4.00mm	WKP23S	**35RF96**
GX24-3E475N04-UF4	GX24	4.75mm	WKP23S	**35RF97**
GX24-3E500N03-CE4	GX24	5.00mm	WKP23S	**35RG45**
GX24-3E500N04-GD3	GX24	5.00mm	WKP23S	**35RG39**
GX24-3E500N04-UA4	GX24	5.00mm	WKP33S	**35RG69**
GX24-3E500N04-UA4	GX24	5.00mm	WKP13S	**35RG70**
GX24-3E500N04-UD4	GX24	5.00mm	WKP23S	**35RG08**
GX24-3E500N04-UD4	GX24	5.00mm	WKP13S	**35RG17**
GX24-3E500N04-UD4	GX24	5.00mm	WKP33S	**35RG24**
GX24-3E500N04-UF4	GX24	5.00mm	WKP23S	**35RF98**
GX24-3E500N08-UD4	GX24	5.00mm	WKP23S	**35RG09**
GX24-3E500N08-UD4	GX24	5.00mm	WKP13S	**35RG18**
GX24-3E500N08-UD4	GX24	5.00mm	WKP33S	**35RG25**
GX24-3E500N08-UF4	GX24	5.00mm	WKP23S	**35RF99**
GX24-3E500N25-RD4	GX24	5.00mm	WKP23S	**35RG52**
GX24-4E600N03-CE4	GX24	6.00mm	WKP23S	**35RG46**
GX24-4E600N05-GD3	GX24	6.00mm	WKP23S	**35RG40**
GX24-4E600N05-UA4	GX24	6.00mm	WKP33S	**35RG71**
GX24-4E600N05-UA4	GX24	6.00mm	WKP13S	**35RG72**
GX24-4E600N05-UD4	GX24	6.00mm	WKP23S	**35RG10**
GX24-4E600N05-UD4	GX24	6.00mm	WKP13S	**35RG19**
GX24-4E600N05-UD4	GX24	6.00mm	WKP33S	**35RG26**
GX24-4E600N05-UF4	GX24	6.00mm	WKP23S	**35RG01**
GX24-4E600N08-UD4	GX24	6.00mm	WKP23S	**35RG11**
GX24-4E600N08-UD4	GX24	6.00mm	WKP13S	**35RG20**
GX24-4E600N08-UD4	GX24	6.00mm	WKP33S	**35RG27**
GX24-4E600N08-UF4	GX24	6.00mm	WKP23S	**35RG02**
GX24-4E600N30-RD4	GX24	6.00mm	WKP23S	**35RG53**
GX24-4E635N05-UF4	GX24	6.35mm	WKP23S	**35RG03**
GX24-4E635N32-RD4	GX24	6.35mm	WKP23S	**35RG54**
GX30-5E800N08-UD4	GX30	8.00mm	WKP23S	**35RG12**
GX30-5E800N12-UD4	GX30	8.00mm	WKP23S	**35RG13**
GX30-5E800N40-RD4	GX30	8.00mm	WKP23S	**35RG55**
GX24-2E300N03-UD6 WSM23S	Pressed	3.00mm	WSM23S	**30EY45**
GX24-4E635N32-RD4 WSM33S	Pressed	¼ in	WSM33S	**30FA99**
GX24-4E635N05-UF4 WSM33S	Pressed	¼ in	WSM33S	**30FA97**
GX24-4E600N05-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30FA80**
GX16-1E200N02-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EU87**
GX24-3E400N08-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ58**
GX24-2E318N03-UF4 WSM33S	Pressed	⅛ in	WSM33S	**30EY83**
GX16-3E400N04-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EX39**
GX24-2E300N030-GD3 WSM33	Pressed	3.00mm	WSM33	**30EY28**
GX24-4E600N30-RD4 WSM33S	Pressed	6.00mm	WSM33S	**30FA94**
GX24-3E400N040-UA4 WAK20	Pressed	4.00mm	WAK20	**30EZ34**
GX24-3E500N040-UA4 WAK20	Pressed	5.00mm	WAK20	**30EZ99**
GX24-4R300N-RK8 WK1	Pressed	6.00mm	WK1	**30FC01**
GX24-5R400N-RK8 WK1	Pressed	8.00mm	WK1	**30FC03**
GX24-2E300N020-CE4 WPP23	Pressed	3.00mm	WPP23	**30EY12**
FX3.1-E310N015-CE4 WPP23	Pressed	3.10mm	WPP23	**30ET62**
GX24-2E300N15-RF8 WSM13S	Pressed	3.00mm	WSM13S	**30EY59**
GX24-3E400N20-RF8 WSM13S	Pressed	4.00mm	WSM13S	**30EZ65**
GX24-3E500N25-RF8 WSM13S	Pressed	5.00mm	WSM13S	**30FA34**
GX24-4E600N30-RF8 WSM13S	Pressed	6.00mm	WSM13S	**30FA95**
GX16-1E200N02-GD6 WSM23S	Pressed	2.00mm	WSM23S	**30EU98**
GX16-1E200N02-UD6 WSM23S	Pressed	2.00mm	WSM23S	**30EV03**
GX16-1E200N10-RD4 WSM23S	Pressed	2.00mm	WSM23S	**30EV12**
GX16-2E300N03-GD6 WSM23S	Pressed	3.00mm	WSM23S	**30EW88**

CONTINUED

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

CONTINUED

WALTER

Indexable Grooving Inserts

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ANSI No.	Style	W	Grade	Item No.
GX24-2E300N03-GD6 WSM23S	Pressed	3.00mm	WSM23S	**30EY41**
GX24-2E300N15-RF8 WSM23S	Pressed	3.00mm	WSM23S	**30EY61**
GX16-3E400N04-GD6 WSM23S	Pressed	4.00mm	WSM23S	**30EX31**
GX24-3E400N04-GD6 WSM23S	Pressed	4.00mm	WSM23S	**30EZ44**
GX24-3E400N04-UD6 WSM23S	Pressed	4.00mm	WSM23S	**30EZ48**
GX24-3E400N20-RF8 WSM23S	Pressed	4.00mm	WSM23S	**30EZ67**
GX16-3E500N04-GD6 WSM23S	Pressed	5.00mm	WSM23S	**30EX57**
GX24-3E500N04-GD6 WSM23S	Pressed	5.00mm	WSM23S	**30FA10**
GX24-3E500N04-UD6 WSM23S	Pressed	5.00mm	WSM23S	**30FA14**
GX24-3E500N25-RF8 WSM23S	Pressed	5.00mm	WSM23S	**30FA35**
GX24-4E600N05-GD6 WSM23S	Pressed	6.00mm	WSM23S	**30FA72**
GX24-4E600N05-UD6 WSM23S	Pressed	6.00mm	WSM23S	**30FA76**
GX24-4E600N30-RF8 WSM23S	Pressed	6.00mm	WSM23S	**30FA96**
GX16-1E200N020-CE4 WSM33	Pressed	2.00mm	WSM33	**30EU70**
GX16-1E200N020-CF5 WSM33	Pressed	2.00mm	WSM33	**30EU72**
GX16-1E200N020-CF6 WSM33	Pressed	2.00mm	WSM33	**30EU75**
GX16-1E200N020-UF4 WSM33	Pressed	2.00mm	WSM33	**30EU85**
GX16-2E300N020-CF6 WSM33	Pressed	3.00mm	WSM33	**30EW63**
GX16-2E300N030-UF4 WSM33	Pressed	3.00mm	WSM33	**30EW82**
GX24-2E300N020-CE4 WSM33	Pressed	3.00mm	WSM33	**30EY13**
GX24-2E300N020-CF6 WSM33	Pressed	3.00mm	WSM33	**30EY17**
GX24-2E300N030-UF4 WSM33	Pressed	3.00mm	WSM33	**30EY35**
FX3.1-E310N015-CE4 WSM33	Pressed	3.10mm	WSM33	**30ET63**
GX24-3E400N040-UF4 WSM33	Pressed	4.00mm	WSM33	**30EZ38**
FX4.1-E410N020-CE4 WSM33	Pressed	4.10mm	WSM33	**30ET88**
GX16-0E150N01-CF6 WSM33S	Pressed	1.50mm	WSM33S	**30EU49**
GX09-1E200N02-GD3 WSM33S	Pressed	2.00mm	WSM33S	**30EU21**
GX09-1E200N02-UF4 WSM33S	Pressed	2.00mm	WSM33S	**30EU25**
GX16-1E200N02-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EU89**
GX16-1E200N02-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EU91**
GX16-1E200N02-GD3 WSM33S	Pressed	2.00mm	WSM33S	**30EU94**
GX16-1E200N02-GD6 WSM33S	Pressed	2.00mm	WSM33S	**30EV01**
GX16-1E200N02-UD6 WSM33S	Pressed	2.00mm	WSM33S	**30EV05**
GX16-1E200N02-UF4 WSM33S	Pressed	2.00mm	WSM33S	**30EV07**
GX16-1E200N10-RD4 WSM33S	Pressed	2.00mm	WSM33S	**30EV13**
GX16-1E239N12-RD4 WSM33S	Pressed	3/32 in	WSM33S	**30EV33**
GX09-1E250N02-GD3 WSM33S	Pressed	2.50mm	WSM33S	**30EU29**
GX16-1E250N02-CE4 WSM33S	Pressed	2.50mm	WSM33S	**30EV66**
GX16-1E250N02-CF5 WSM33S	Pressed	2.50mm	WSM33S	**30EV68**
GX16-1E250N02-CF6 WSM33S	Pressed	2.50mm	WSM33S	**30EV71**
GX16-1E250N02-GD3 WSM33S	Pressed	2.50mm	WSM33S	**30EV75**
GX16-1E250N02-GD6 WSM33S	Pressed	2.50mm	WSM33S	**30EV81**
GX16-1E250N02-UD6 WSM33S	Pressed	2.50mm	WSM33S	**30EV85**
GX16-1E250N02-UF4 WSM33S	Pressed	2.50mm	WSM33S	**30EV87**
GX09-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EU38**
GX09-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EU42**
GX16-2E300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EW65**
GX16-2E300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EW67**
GX16-2E300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EW70**
GX16-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EW84**
GX16-2E300N03-GD6 WSM33S	Pressed	3.00mm	WSM33S	**30EW90**
GX16-2E300N03-UD6 WSM33S	Pressed	3.00mm	WSM33S	**30EW94**
GX16-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EW96**
GX24-2E300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY19**
GX24-2E300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY21**
GX24-2E300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY23**
GX24-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EY37**
GX24-2E300N03-GD6 WSM33S	Pressed	3.00mm	WSM33S	**30EY43**
GX24-2E300N03-UD6 WSM33S	Pressed	3.00mm	WSM33S	**30EY47**
GX24-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EY49**
GX24-2E300N15-RD4 WSM33S	Pressed	3.00mm	WSM33S	**30EY58**
GX24-2F300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY96**
GX24-2F300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY98**
GX24-2F300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EZ02**
GX24-2E318N16-RD4 WSM33S	Pressed	1/8 in	WSM33S	**30EY85**
GX16-3E400N04-GD3 WSM33S	Pressed	4.00mm	WSM33S	**30EX27**
GX16-3E400N04-GD6 WSM33S	Pressed	4.00mm	WSM33S	**30EX33**
GX16-3E400N04-UD6 WSM33S	Pressed	4.00mm	WSM33S	**30EX37**
GX24-3E400N02-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ20**
GX24-3E400N03-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ27**
GX24-3E400N04-GD3 WSM33S	Pressed	4.00mm	WSM33S	**30EZ40**
GX24-3E400N04-GD6 WSM33S	Pressed	4.00mm	WSM33S	**30EZ46**
GX24-3E400N04-UD6 WSM33S	Pressed	4.00mm	WSM33S	**30EZ50**
GX24-3E400N04-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ52**
GX24-3E400N20-RD4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ64**
GX24-3F400N02-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30FA38**
GX24-3F400N03-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30FA44**
GX24-3E475N04-UF4 WSM33S	Pressed	3/16 in	WSM33S	**30EZ80**
GX24-3E475N24-RD4 WSM33S	Pressed	3/16 in	WSM33S	**30EZ82**
GX16-3E500N04-GD3 WSM33S	Pressed	5.00mm	WSM33S	**30EX53**
GX16-3E500N04-GD6 WSM33S	Pressed	5.00mm	WSM33S	**30EX59**
GX16-3E500N04-UD6 WSM33S	Pressed	5.00mm	WSM33S	**30EX63**
GX16-3E500N04-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30EX65**
GX24-3E500N03-CE4 WSM33S	Pressed	5.00mm	WSM33S	**30EZ88**
GX24-3E500N03-CF5 WSM33S	Pressed	5.00mm	WSM33S	**30EZ91**
GX24-3E500N04-GD3 WSM33S	Pressed	5.00mm	WSM33S	**30FA06**
GX24-3E500N04-GD6 WSM33S	Pressed	5.00mm	WSM33S	**30FA12**
GX24-3E500N04-UD6 WSM33S	Pressed	5.00mm	WSM33S	**30FA16**
GX24-3E500N04-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30FA18**
GX24-3E500N08-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30FA24**
GX24-3E500N25-RD4 WSM33S	Pressed	5.00mm	WSM33S	**30FA33**
GX24-3F500N03-CF5 WSM33S	Pressed	5.00mm	WSM33S	**30FA49**
GX16-4E600N05-UD6 WSM33S	Pressed	6.00mm	WSM33S	**30EX89**
GX16-4E600N05-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30EX91**
GX24-4E600N03-CE4 WSM33S	Pressed	6.00mm	WSM33S	**30FA56**
GX24-4E600N05-GD3 WSM33S	Pressed	6.00mm	WSM33S	**30FA68**
GX24-4E600N05-GD6 WSM33S	Pressed	6.00mm	WSM33S	**30FA74**
GX24-4E600N05-UD6 WSM33S	Pressed	6.00mm	WSM33S	**30FA78**
GX24-4E600N08-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30FA86**
GX09-1E200N02-GD3 WSM43S	Pressed	2.00mm	WSM43S	**30EU23**
GX09-1E200N02-UF4 WSM43S	Pressed	2.00mm	WSM43S	**30EU27**
GX16-1E200N02-CE4 WSM43S	Pressed	2.00mm	WSM43S	**30EU88**
GX16-1E200N02-CF5 WSM43S	Pressed	2.00mm	WSM43S	**30EU90**
GX16-1E200N02-CF6 WSM43S	Pressed	2.00mm	WSM43S	**30EU92**
GX16-1E200N02-GD3 WSM43S	Pressed	2.00mm	WSM43S	**30EU96**
GX16-1E200N02-UF4 WSM43S	Pressed	2.00mm	WSM43S	**30EV09**
GX09-1E250N02-GD3 WSM43S	Pressed	2.50mm	WSM43S	**30EU31**
GX16-1E250N02-CE4 WSM43S	Pressed	2.50mm	WSM43S	**30EV67**
GX16-1E250N02-CF5 WSM43S	Pressed	2.50mm	WSM43S	**30EV69**
GX16-1E250N02-UF4 WSM43S	Pressed	2.50mm	WSM43S	**30EV89**
GX09-2E300N03-GD3 WSM43S	Pressed	3.00mm	WSM43S	**30EU40**
GX09-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EU44**
GX16-2E300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EW66**
GX16-2E300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EW68**
GX16-2E300N02-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EW72**
GX16-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EW98**
GX24-2E300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY20**
GX24-2E300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY22**
GX24-2E300N02-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EY25**
GX24-2E300N03-GD3 WSM43S	Pressed	3.00mm	WSM43S	**30EY39**
GX24-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EY51**
GX24-2F300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY97**
GX24-2F300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EZ01**
GX24-3E400N02-CF5 WSM43S	Pressed	4.00mm	WSM43S	**30EZ22**
GX24-3E400N03-CE4 WSM43S	Pressed	4.00mm	WSM43S	**30EZ28**
GX24-3E400N04-GD3 WSM43S	Pressed	4.00mm	WSM43S	**30EZ42**
GX24-3E400N04-UF4 WSM43S	Pressed	4.00mm	WSM43S	**30EZ54**
GX24-3F400N03-CE4 WSM43S	Pressed	4.00mm	WSM43S	**30FA45**
GX24-3E500N03-CE4 WSM43S	Pressed	5.00mm	WSM43S	**30EZ89**
GX24-3E500N03-CF5 WSM43S	Pressed	5.00mm	WSM43S	**30EZ93**
GX24-3E500N04-GD3 WSM43S	Pressed	5.00mm	WSM43S	**30FA08**
GX24-3E500N04-UF4 WSM43S	Pressed	5.00mm	WSM43S	**30FA20**
GX24-4E600N03-CE4 WSM43S	Pressed	6.00mm	WSM43S	**30FA57**
GX24-4E600N05-GD3 WSM43S	Pressed	6.00mm	WSM43S	**30FA70**
GX24-4E600N05-UF4 WSM43S	Pressed	6.00mm	WSM43S	**30FA82**
GX16-1E200N020-UF4 WSP43	Pressed	2.00mm	WSP43	**30EU86**
FX3.1-E310N015-CE4 WSP43	Pressed	3.10mm	WSP43	**30ET64**
FX4.1-E410N020-CE4 WSP43	Pressed	4.10mm	WSP43	**30ET89**
FX4.1-E410N020-CE6 WSP43	Pressed	4.10mm	WSP43	**30ET92**
Right Hand				
GX24-2E300R6-CE4	GX24	3.00mm	WKP23S	**35RG43**
GX16-1E200R6-CF6 WSM33	Pressed	2.00mm	WSM33	**30EV26**
GX16-2E300R6-CF6 WSM33	Pressed	3.00mm	WSM33	**30EX11**
GX16-0E150R10-CF6 WSM33S	Pressed	1.50mm	WSM33S	**30EU50**
GX16-1E200R6-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EV15**
GX16-1E200R6-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EV21**
GX16-1E200R6-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EV27**
GX16-1E250R6-CE4 WSM33S	Pressed	2.50mm	WSM33S	**30EV92**
GX16-1E250R6-CF5 WSM33S	Pressed	2.50mm	WSM33S	**30EV97**
GX16-1E250R6-CF6 WSM33S	Pressed	2.50mm	WSM33S	**30EW04**
GX16-2E300R6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EX02**
GX16-2E300R6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EX06**
GX16-2E300R6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EX12**
GX24-2E300R6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY65**
GX24-2E300R6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY71**
GX24-2E300R6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY78**
GX24-3E400R6-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ71**
GX24-3E400R6-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ75**
GX16-1E200R6-CE4 WSM43S	Pressed	2.00mm	WSM43S	**30EV17**
GX16-1E200R6-CF5 WSM43S	Pressed	2.00mm	WSM43S	**30EV23**
GX16-1E200R6-CF6 WSM43S	Pressed	2.00mm	WSM43S	**30EV29**
GX24-2E300R6-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY67**
GX24-2E300R6-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY73**
GX24-2E300R6-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EY80**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

ISO Grade	Application	First Choice Grade
K	Cast Iron	WAK15, WKP25S, WKP35S,
N	Non Ferrous	WK10, WMG40, WXN15,
M	Stainless	WSM35, WSM35S, WSP45S
P	Steel	WKP25S, WKP35S, WSP45S,
S	Super Alloy	WSM35, WSM35S



Octagonal
ODHT



Rectangle
LNHU



Rhombic
ZDGT



Square
SPMT



Triangular
P

WALTER

Milling Inserts

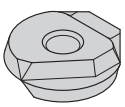
- Sold in pkg. of 10 only

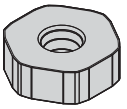
Note: For additional sizes, go to Grainger.com®.

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Ballnose				
XDMT2506159R-F55 WKP25S	.984 in	0.625"	WKP25S	**44T728**
Octagon				
ODHT0504ZZN-F57 WKP35S	½ in	0.031"	WKP35S	**44U165**
ODHT0504ZZN-G88 WK10	½ in	0.031"	WK10	**44U170**
ODHW0605ZZN-A57 WAK15	⅝ in	0.031"	WAK15	**44U207**
ODMT0504ZZN-D57 WKP35S	½ in	0.031"	WKP35S	**44U224**
ODMT0605ZZN-D57 WKP25S	⅝ in	0.031"	WKP25S	**44U236**
Parallelogram				
ADGT10T3PER-D67	—	0.031"	WSP45S	**35RE10**
ADGT10T3PER-D67 WKP35S	.285 in	0.031"	WKP35S	**44R313**
ADGT10T3PER-G77	—	0.031"	WSP45S	**35RE11**
ADGT10T316R-D67	—	0.063"	WSP45S	**35RE08**
ADGT10T330R-D67	—	0.118"	WSP45S	**35RE09**
ADGT0803PER-D51	—	0.016"	WSP45S	**35RE05**
ADGT0803PER-D51 WKP25S	.266 in	0.016"	WKP25S	**44R274**
ADGT0803PER-D51 WKP35S	.266 in	0.016"	WKP35S	**44R276**
ADGT0803PER-D56	—	0.016"	WSP45S	**35RE06**
ADGT0803PER-F56	—	0.016"	WSP45S	**35RE07**
ADGT1204PER-D51	—	0.031"	WSP45S	**35RE16**
ADGT1204PER-D51 WKP25S	.331 in	0.031"	WKP25S	**44R331**
ADGT1204PER-D51 WKP35S	.331 in	0.031"	WKP35S	**44R333**
ADGT1204PER-D56	—	0.031"	WSP45S	**35RE17**
ADGT1204PER-D56 WKP25S	.331 in	0.031"	WKP25S	**44R337**
ADGT1204PER-D56 WKP35S	.331 in	0.031"	WKP35S	**44R339**
ADGT1204PER-D67	—	0.031"	WSP45S	**35RE18**
ADGT1204PER-D67 WKP35S	.331 in	0.031"	WKP35S	**44R343**
ADGT1204PER-F56	—	0.031"	WSP45S	**35RE19**
ADGT1204PER-G77	—	0.031"	WSP45S	**35RE20**
ADGT1606PER-D51	—	0.031"	WSP45S	**35RE29**
ADGT1606PER-D51 WKP25S	.425 in	0.031"	WKP25S	**44R368**
ADGT1606PER-D51 WKP35S	.425 in	0.031"	WKP35S	**44R370**
ADGT1606PER-D56	—	0.031"	WSP45S	**35RE30**
ADGT1606PER-D56 WKP25S	.425 in	0.031"	WKP25S	**44R374**
ADGT1606PER-D56 WKP35S	.425 in	0.031"	WKP35S	**44R376**
ADGT1606PER-D67	—	0.031"	WSP45S	**35RE31**
ADGT1606PER-D67 WKP35S	.425 in	0.031"	WKP35S	**44R380**
ADGT1606PER-F56	—	0.031"	WSP45S	**35RE32**
ADGT1606PER-G77	—	0.031"	WSP45S	**35RE33**
ADGT1807PER-D51 WKP35S	.571 in	0.047"	WKP35S	**44R390**
ADGT1807PER-D56	—	0.047"	WSP45S	**35RE35**
ADGT1807PER-D56 WKP35S	.571 in	0.047"	WKP35S	**44R395**
ADGT120404R-F56	—	0.016"	WSP45S	**35RE12**
ADGT120416R-D67	—	0.063"	WSP45S	**35RE13**
ADGT120430R-F56	—	0.118"	WSP45S	**35RE14**
ADGT120440R-F56	—	0.157"	WSP45S	**35RE15**
ADGT160612R-F56	—	0.047"	WSP45S	**35RE21**
ADGT160616R-D67	—	0.063"	WSP45S	**35RE22**
ADGT160616R-F56	—	0.063"	WSP45S	**35RE23**
ADGT160620R-F56	—	0.079"	WSP45S	**35RE24**
ADGT160632R-F56	—	0.126"	WSP45S	**35RE26**
ADGT160640R-F56	—	0.157"	WSP45S	**35RE27**
ADHT10T3PER-G88 WK10	.285 in	0.031"	WK10	**44R403**
ADHT10T3PER-G88 WXN15	.285 in	0.031"	WXN15	**44R404**
ADHT0803PEL-G88 WXN15	.266 in	0.016"	WXN15	**44R399**
ADHT0803PER-G88 WK10	.266 in	0.016"	WK10	**44R401**
ADHT0803PER-G88 WXN15	.266 in	0.016"	WXN15	**44R402**
ADHT1204PEL-G88 WXN15	.331 in	0.031"	WXN15	**44R422**
ADHT1204PER-G88 WK10	.331 in	0.031"	WK10	**44R423**
ADHT1204PER-G88 WXN15	.331 in	0.031"	WXN15	**44R424**
ADHT1606PEL-G88 WXN15	.425 in	0.031"	WXN15	**44R442**
ADHT1606PER-G88 WK10	.425 in	0.031"	WK10	**44R443**
ADHT1606PER-G88 WXN15	.425 in	0.031"	WXN15	**44R444**
ADHT120416L-G88 WXN15	.331 in	0.063"	WXN15	**44R406**
ADHT120416R-G88 WK10	.331 in	0.063"	WK10	**44R407**
ADHT120416R-G88 WXN15	.331 in	0.063"	WXN15	**44R408**
ADHT120430L-G88 WXN15	.331 in	0.118"	WXN15	**44R414**
ADHT120430R-G88 WK10	.331 in	0.118"	WK10	**44R415**
ADHT120430R-G88 WXN15	.331 in	0.118"	WXN15	**44R416**
ADHT120440L-G88 WXN15	.331 in	0.157"	WXN15	**44R418**
ADHT120440R-G88 WK10	.331 in	0.157"	WK10	**44R419**
ADHT160616L-G88 WXN15	.425 in	0.063"	WXN15	**44R426**
ADHT160616R-G88 WK10	.425 in	0.063"	WK10	**44R427**
ADHT160616R-G88 WXN15	.425 in	0.063"	WXN15	**44R428**
ADHT160630R-G88 WK10	.425 in	0.118"	WK10	**44R435**
ADHT160640R-G88 WK10	.425 in	0.157"	WK10	**44R439**
ADKT10T3PER-F56	—	0.031"	WSP45S	**35RD37**
ADKT10T3PER-F56 WKP25S	.285 in	0.031"	WKP25S	**44R456**
ADKT10T3PER-F56 WKP35S	.285 in	0.031"	WKP35S	**44R458**

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
ADKT0803PEL-F56	—	0.016"	WSP45S	**35RD35**
ADKT0803PEL-F56 WKP35S	.266 in	0.016"	WKP35S	**44R446**
ADKT0803PER-F56	—	0.016"	WSP45S	**35RD36**
ADKT0803PER-F56 WAK15	.266 in	0.016"	WAK15	**44R448**
ADKT0803PER-F56 WKP25S	.266 in	0.016"	WKP25S	**44R450**
ADKT0803PER-F56 WKP35S	.266 in	0.016"	WKP35S	**44R452**
ADKT1204PEL-F56	—	0.031"	WSP45S	**35RD38**
ADKT1204PEL-F56 WKP35S	.331 in	0.031"	WKP35S	**44R462**
ADKT1204PER-F56	—	0.031"	WSP45S	**35RD39**
ADKT1204PER-F56 WAK15	.331 in	0.031"	WAK15	**44R464**
ADKT1204PER-F56 WKP25S	.331 in	0.031"	WKP25S	**44R466**
ADKT1204PER-F56 WKP35S	.331 in	0.031"	WKP35S	**44R468**
ADKT1606PEL-F56	—	0.031"	WSP45S	**35RD40**
ADKT1606PEL-F56 WKP35S	.425 in	0.031"	WKP35S	**44R471**
ADKT1606PER-F56	—	0.031"	WSP45S	**35RD41**
ADKT1606PER-F56 WAK15	.425 in	0.031"	WAK15	**44R473**
ADKT1606PER-F56 WKP25S	.425 in	0.031"	WKP25S	**44R475**
ADKT1606PER-F56 WKP35S	.425 in	0.031"	WKP35S	**44R477**
ADMT10T308R-F56	—	0.031"	WSP45S	**35RE46**
ADMT10T308R-F56 WKP35S	.285 in	0.031"	WKP35S	**44R539**
ADMT080302R-F56	—	0.008"	WSP45S	**35RE36**
ADMT080302R-F56 WKP35S	.266 in	0.008"	WKP35S	**44R480**
ADMT080304L-F56	—	0.016"	WSP45S	**35RE37**
ADMT080304L-F56 WKP35S	.266 in	0.016"	WKP35S	**44R485**
ADMT080304R-D56	—	0.016"	WSP45S	**35RE38**
ADMT080304R-D56 WAK15	.266 in	0.016"	WAK15	**44R487**
ADMT080304R-D56 WKP25S	.266 in	0.016"	WKP25S	**44R490**
ADMT080304R-D56 WKP35S	.266 in	0.016"	WKP35S	**44R492**
ADMT080304R-F56	—	0.016"	WSP45S	**35RE39**
ADMT080304R-F56 WAK15	.266 in	0.016"	WAK15	**44R494**
ADMT080304R-F56 WKP25S	.266 in	0.016"	WKP25S	**44R497**
ADMT080304R-F56 WKP35S	.266 in	0.016"	WKP35S	**44R499**
ADMT080304R-G56 WKP35S	.266 in	0.016"	WKP35S	**44R506**
ADMT080308L-F56	—	0.031"	WSP45S	**35RE40**
ADMT080308L-F56 WKP35S	.266 in	0.031"	WKP35S	**44R512**
ADMT080308R-F56	—	0.031"	WSP45S	**35RE41**
ADMT080308R-F56 WKP35S	.266 in	0.031"	WKP35S	**44R515**
ADMT080312R-F56	—	0.047"	WSP45S	**35RE42**
ADMT080312R-F56 WKP35S	.266 in	0.047"	WKP35S	**44R520**
ADMT080316R-F56	—	0.063"	WSP45S	**35RE43**
ADMT080316R-F56 WKP35S	.266 in	0.063"	WKP35S	**44R524**
ADMT120404R-F56	—	0.016"	WSP45S	**35RE53**
ADMT120408R-D56 WKP35S	.331 in	0.031"	WKP35S	**44R595**
ADMT160608R-F56 WKP25S	.425 in	0.031"	WKP25S	**44R671**
ADMT160608R-G56 WKP35S	.425 in	0.031"	WKP35S	**44R679**
ADMT160612R-F56	—	0.047"	WSP45S	**35RE68**
XDMT16T3095R-F55	—	0.375"	WSP45S	**35RD21**
Rectangle				
LNHU090420R-L55T WSM35S	0.3540 in	0.016"	WSM35S	**44R832**
LNHU130608R-L55T WSM35S	0.5120 in	0.031"	WSM35S	**44R860**
LNHU130632R-L55T WSP45S	0.5120 in	0.126"	WSP45S	**44R874**
Rhombic				
LNGX130708R-L55 WKP25S	0.4330 in	0.031"	WKP25S	**44R752**
LNGX130708R-L88 WK10	0.4330 in	0.031"	WK10	**44R757**
LNHU090412R-L55T WSP45S	0.3540 in	0.016"	WSP45S	**44R831**
LNHX070204-F57T WKP25S	0.2750 in	0.016"	WKP25S	**44R891**
LPMT15T308R-D51 WKP25S	⅜ in	0.031"	WKP25S	**44T595**
LPMT150412R-D51 WKP35S	½ in	0.047"	WKP35S	**44T587**
ZDGT150404R-K85 WK10	0.5910 in	0.016"	WK10	**44T762**
Square				
SDMW09T3AEN-A57 WKP25S	⅜ in	0.020"	WKP25S	**44T527**
SDMW09T3AEN-A57 WKP35S	⅜ in	0.020"	WKP35S	**44T529**
SNGX1205ANN-F57	½ in	Chamfer	WSP45S	**35RD51**
SNGX1205ANN-F57 WKP35S	½ in	0.059"	WKP35S	**44T957**
SNGX1205ZNN-F67 WKP35S	½ in	0.047"	WKP35S	**44U001**
SNHX1205ANN-K88 WK10	½ in	0.059"	WK10	**44U023**
SNHX1205ANN-K88 WXN15	½ in	0.059"	WXN15	**44U024**
SNMX1205ANN-F57 WKP35S	½ in	0.059"	WKP35S	**44U068**
SNMX120512-F57 WKP35S	½ in	0.047"	WKP35S	**44U038**
SPMT120408-D51 WKP35S	½ in	0.031"	WKP35S	**44T448**
Triangle				
P26335R14	⅜ in	0.047"	WSP45S	**35RD70**
P26335R14 WKP35S	⅜ in	0.047"	WKP35S	**44T615**
P26339R25	0.5120 in	0.079"	WSP45S	**35RD77**
P26379-R14	⅜ in	0.047"	WSP45S	**35RD79**

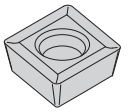
For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

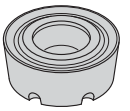

Ballnose

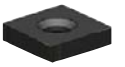

Hexagon

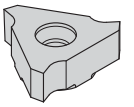

Parallelogram

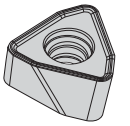

Rectangle


Rhombic


Round


Square


Triangle


Trigon

WIDIA
Milling Inserts

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grade
K	Cast Iron	THM, TN2505, TN2510, TN6505, TN6510, TN6520, TN6525, TN6540, TN7535, WK15CM, WK25YM, WP25PM, WP35CM,
H	Hardened	TN2505, TN2510, TN2525,
N	Non Ferrous	THM, THM-U, TN6501, WDN00U, WDN10U, WN25PM,
M	Stainless	TN450, TN6525, TN6540, TN7525, TN7535, TTM08, WP25PM, WP35CM, WP40PM, WU35PM
P	Steel	TN2505, TN2510, TN2525, TN450, TN6505, TN6525, TN6540, TN6540, TN7525, TN7535, TTM08, WP25PM, WP35CM, WP40PM, WU35PM
S	Super Alloy	THM, TN6540, WP25PM, WP40PM, WU35PM

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Ballnose				
M270BF10	10.00mm	0.197"	TN2505	**444R58**
M270BF12	12.00mm	0.236"	TN2505	**444R60**
M270BF16	16.00mm	0.315"	TN2505	**444R62**
M270BF20	20.00mm	0.394"	TN2505	**444R64**
M270BF25	25.00mm	0.492"	TN2505	**444R66**
M270BF32	32.00mm	0.630"	TN2505	**444R68**
M270BF0375	0.375 in	0.188"	TN2505	**444T64**
M270BF0750	0.750 in	0.375"	TN2505	**444T87**
M270BF1000	1.000 in	0.500"	TN6540	**444V60**
M270BR10	10.00mm	0.197"	TN7525	**444R42**
M270BR10	10.00mm	0.197"	TN7535	**444R43**
M270BR12	12.00mm	0.236"	TN7525	**444R45**
M270BR12	12.00mm	0.236"	TN7535	**444R46**
M270BR16	16.00mm	0.315"	TN7525	**444R48**
M270BR16	16.00mm	0.315"	TN7535	**444T63**
M270BR20	20.00mm	0.394"	TN7525	**444R50**
M270BR20	20.00mm	0.394"	TN7535	**444R51**
M270BR25	25.00mm	0.492"	TN7525	**444R53**
M270BR25	25.00mm	0.492"	TN7535	**444R54**
M270BR32	32.00mm	0.630"	TN7525	**444R56**
Hexagon				
HNEC535ANSN	⅝ in	0.047"	WK25YM	**444Y11**
HNGJ535ANENLD	⅝ in	0.047"	TN6540	**444U32**
HNGJ535ANFNLDJ	⅝ in	0.047"	THM-U	**444U77**
HNGJ535ANSNGD	⅝ in	0.047"	TN6525	**444U78**
HNGJ535ANSNHD	⅝ in	0.047"	WS40PM	**444Z29**
HNGJ0704ANENLD	½ in	0.047"	WS40PM	**444Z32**
HNGJ0704ANENLD	½ in	0.047"	TN6505	**444V22**
HNGJ0704ANFNLDJ	½ in	0.047"	TN6501	**444V20**
HNGJ0704ANFNLDJ	½ in	0.047"	THM-U	**444V19**
HNPJ535ANSNGD	⅝ in	0.047"	WP40PM	**444X03**
HNPJ535ANSNGD	⅝ in	0.047"	WP35CM	**444X67**
HNPJ535ANSNHD	⅝ in	0.047"	WP40PM	**444X04**
HNPJ535ANSNHD	⅝ in	0.047"	WS40PM	**444Z27**
HNPJ0704ANSNGD	½ in	0.047"	TN6540	**444V37**
HNPJ0704ANSNGD	½ in	0.047"	WS40PM	**444Z33**
HNPJ0704ANSNHD	½ in	0.047"	WP35CM	**444X54**
HPGT06T3DZERGD3W	0.4385 in	0.039"	WP40PM	**444X82**
HPGT225DZENGD	0.4321 in	0.039"	TN6525	**444U23**
HPGT225DZFRLDAL	0.4332 in	0.035"	THM	**444T78**
HPPT225DZENGD	0.4320 in	0.039"	TN7535	**444T69**
HPPT225DZENGD	0.4320 in	0.039"	WS40PM	**444Z38**
XNGJ535ANSNGD3W	⅝ in	0.063"	TN6540	**444U34**
XNGJ535ANSNGD3W	⅝ in	0.063"	WS40PM	**444Z25**
XNGJ535ANSNGD3W	⅝ in	0.063"	WP40PM	**444X74**
XNGJ0704ANENLD3W	½ in	0.051"	WP40PM	**444X57**
XNGJ0704ANENLD3W	½ in	0.051"	TN6540	**444V30**
XNGJ0704ANFNLDJ3W	½ in	0.051"	THM-U	**444V35**
Parallelogram				
XDCT1101ERML	0.272 in	0.016"	WP40PM	**444X09**
XDCT1101RPCD	0.272 in	0.016"	WDN10U	**444W22**
XDCT1702ERML	0.378 in	0.031"	WP40PM	**444Y46**
XDCT1702RALP	0.378 in	0.031"	WN25PM	**444Y79**
XDCT1708ERML	0.378 in	0.125"	WS40PM	**444Z67**
XDCT1708RALP	0.378 in	0.125"	WN25PM	**444Y61**
XDCT1710ERML	0.377 in	0.157"	WS40PM	**444Z68**
XDPT1102SRMH	0.272 in	0.031"	WP40PM	**444W97**
XDPT1102SRMM	0.272 in	0.031"	WP25PM	**444W17**
XDPT1102SRMM	0.272 in	0.031"	WU35PM	**444W15**
XDPT1102SRMM	0.272 in	0.031"	WP35CM	**444W16**
XDPT1102SRMM	0.272 in	0.031"	WP40PM	**444W96**
XDPT1108SRMM	0.271 in	0.122"	WK15CM	**444W24**
XDPT1702SRMH	0.378 in	0.031"	WP40PM	**444Y53**
XDPT1708SRMM	0.394 in	0.125"	WS40PM	**444Z47**
XDPT1710SRMM	0.377 in	0.157"	WS40PM	**444Z61**

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rectangle				
EDR100031E1W4	0.250 in	0.031"	WDN00U	**444Z83**
SDR102	0.380 in	0.125"	WDN00U	**444Z82**
SDR100031E0W4	0.380 in	0.031"	WDN00U	**444Z78**
XNGU1501ERML	0.394 in	0.016"	WU35PM	**444X48**
XNGU1502ERML	0.394 in	0.032"	WS40PM	**444Z46**
XNPU1002SRMM	0.260 in	0.031"	WK15PM	**444Z69**
XNPU1502SRMM	0.394 in	0.032"	WP40PM	**444X23**
XNPU1504SRMM	0.394 in	0.063"	WS40PM	**444Z44**
Rhombic				
CPNT120408T	½ in	0.032"	TTM08	**444T29**
MDHW120408	½ in	0.032"	WP25PM	**444Y10**
MDHX09T308	⅜ in	0.032"	WP40PM	**444Y01**
Round				
RCMT1606M0TX	⅝ in	0.315"	WK15CM	**444W59**
RDHT1204M0TX	0.4724 in	0.236"	TN7525	**444T13**
RDMT0802M0T	0.3150 in	0.157"	TN7525	**444R26**
RDMT0802M0T	0.3150 in	0.157"	TN7535	**444T08**
RDMT1003M0	0.3937 in	0.197"	THM	**444R29**
RDMW1605M0TX	⅝ in	0.315"	TN6540	**444U68**
RDPT1204M0SMMX	0.4720 in	0.236"	TN6540	**444V74**
RDPT1204M0SMMX	0.4720 in	0.236"	TN7535	**444V75**
RNGJ10T3M0EML	0.3937 in	0.197"	WP25PM	**444V76**
RNGJ64EML	¾ in	0.374"	WP25PM	**444Y89**
RNGJ85SMM	1 in	0.492"	WP40PM	**444Y83**
RNGJ1204M0SMM	0.4724 in	0.236"	WP35CM	**444V69**
RNGJ1605M0EML	⅝ in	0.315"	WS40PM	**444Z58**
RNPJ10T3M0SMM	0.3937 in	0.197"	WP35CM	**444V82**
RNPJ1204M0SMH	0.4724 in	0.236"	WP25PM	**444V89**
RNPJ1605M0SMM	⅝ in	0.315"	WP25PM	**444V92**
Square				
123506602	½ in	—	WP35CM	**444X99**
SDEX432FRALP	½ in	0.031"	THM-U	**444V97**
SDMT43PDRMH	½ in	0.047"	TN7525	**444T50**
SDMT54PDRML	⅝ in	0.047"	WK15CM	**444W54**
SDMX432RMM	½ in	0.031"	TN6525	**444V02**
SDMX432RMM	½ in	0.031"	TN6540	**444V03**
SDMX432RMM	½ in	0.031"	TN7525	**444V04**
SDMX433RMH	½ in	0.047"	TN6520	**444V18**
SDMX434RMM	½ in	0.063"	TN6520	**444V52**
SDMX438RMM	½ in	0.126"	TN7535	**444V58**
SDMX543RMM	⅝ in	0.047"	TN6540	**444U94**
SDMX544RMH	⅝ in	0.063"	WK15CM	**444Z06**
SNKT435AZER20	½ in	—	TN6540	**444U25**
SNKT435AZR31	½ in	—	TN7525	**444R87**
SNMT435AZR31	½ in	—	TN6525	**444U28**
SNMT535AZR31	⅝ in	—	TN7535	**444R91**
XNKT435AZER11	½ in	0.051"	WK15CM	**444W45**
Triangle				
TCAX1103ZZ18	¼ in	—	TTM08	**444R72**
TNAX1604ZZ26	⅜ in	—	THM	**444R74**
TNAX1604ZZ41	⅜ in	—	THM	**444R78**
Trigon				
WOEJ080412SRMH	0.3069 in	0.048"	TN6525	**444V47**
WOEJ120712SRMH	0.4720 in	0.050"	WP40PM	**444W93**
WOEJ120712SRMR	0.4720 in	0.050"	WS40PM	**444Z53**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards


Parallelogram


Pentagon


Rectangle


Round


Square


Trigon

KYOCERA

Milling Inserts

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Parallelogram				
APET1604PDFRKW10	0.375 in	0.039"	KW10	**487X86**
APET160416KW10	0.375 in	0.062"	KW10	**487X84**
APET160431KW10	0.375 in	0.125"	KW10	**487X85**
APKT1604PDERV PR1225	0.375 in	0.031"	PR1225	**53CE56**
APMT250608ERNB3PR1210	0.625 in	0.031"	PR1210	**487X15**
APMT250608ERNB3PR1230	0.625 in	0.031"	PR1230	**487X70**
APMT250608ERNB4PR1210	0.625 in	0.031"	PR1210	**487X16**
APMT250608ERNB4PR1230	0.625 in	0.031"	PR1230	**487X71**
APMT250616ERNB3PPR1210	0.625 in	0.063"	PR1210	**487X18**
APMT250616ERNB3PR1210	0.625 in	0.063"	PR1210	**487X17**
APMT250616ERNB3PR1230	0.625 in	0.063"	PR1230	**487X72**
APMT250616ERNB4PPR1210	0.625 in	0.063"	PR1210	**487X20**
APMT250616ERNB4PR1210	0.625 in	0.063"	PR1210	**487X19**
APMT250616ERNB4PR1230	0.625 in	0.063"	PR1230	**487X73**
APMT250640ERNB3PR1230	0.625 in	0.157"	PR1230	**487X74**
APMT250640ERNB4PR1230	0.625 in	0.157"	PR1230	**487X75**
BDGT11T302FRJAGW25	0.264 in	0.008"	GW25	**487W99**
BDGT11T304FRJAGW25	0.264 in	0.016"	GW25	**487X01**
BDGT11T304FRJAPDL025	0.264 in	0.016"	PDL025	**487Z97**
BDGT11T308FRJAGW25	0.264 in	0.031"	GW25	**487X05**
BDGT11T308FRJAPDL025	0.264 in	0.031"	PDL025	**487Z98**
BDGT170404FRJAPDL025	0.378 in	0.016"	PDL025	**487Z99**
BDGT170408FRJAGW25	0.378 in	0.031"	GW25	**487X04**
BDGT170416FRJAGW25	0.378 in	0.063"	GW25	**487X09**
BDGT170420FRJAGW25	0.378 in	0.079"	GW25	**487X02**
BDGT170420FRJAPDL025	0.378 in	0.079"	PDL025	**488A01**
BDGT170424FRJAGW25	0.378 in	0.094"	GW25	**487X10**
BDGT170431FRJAGW25	0.378 in	0.122"	GW25	**487X11**
BDMT11T302ERJSPR1225	0.264 in	0.008"	PR1225	**487X43**
BDMT11T302ERJTPR1225	0.264 in	0.008"	PR1225	**487X44**
BDMT11T302FRKPD001	0.264 in	0.008"	KPD001	**487X03**
BDMT11T304ERJSCA6535	0.264 in	0.016"	CA6535	**487Y61**
BDMT11T304ERJSPR1225	0.264 in	0.016"	PR1225	**487X45**
BDMT11T304ERJSPR1535	0.264 in	0.016"	PR1535	**487Y47**
BDMT11T304ERJTCA6535	0.264 in	0.016"	CA6535	**487Y64**
BDMT11T304ERJTPR1210	0.264 in	0.016"	PR1210	**487X21**
BDMT11T304ERJTPR1225	0.264 in	0.016"	PR1225	**487X46**
BDMT11T304ERJTPR1535	0.264 in	0.016"	PR1535	**487Y44**
BDMT11T304ERJTTN100M	0.264 in	0.016"	TN100M	**487Y14**
BDMT11T304FRKPD001	0.264 in	0.016"	KPD001	**487X06**
BDMT11T308ERJSCA6535	0.264 in	0.031"	CA6535	**487Y62**
BDMT11T308ERJSPR1225	0.264 in	0.031"	PR1225	**487X47**
BDMT11T308ERJSPR1535	0.264 in	0.031"	PR1535	**487Y42**
BDMT11T308ERJTCA6535	0.264 in	0.031"	CA6535	**487Y65**
BDMT11T308ERJTPR1210	0.264 in	0.031"	PR1210	**487X22**
BDMT11T308ERJTPR1225	0.264 in	0.031"	PR1225	**487X48**
BDMT11T308ERJTPR1535	0.264 in	0.031"	PR1535	**487Y45**
BDMT11T308ERJTTN100M	0.264 in	0.031"	TN100M	**487Y15**
BDMT11T308ERN2PR1210	0.264 in	0.031"	PR1210	**487X78**
BDMT11T308ERN2PR1225	0.264 in	0.031"	PR1225	**487X49**
BDMT11T308ERN2PR1230	0.264 in	0.031"	PR1230	**487Y08**
BDMT11T308ERN2PR1535	0.264 in	0.031"	PR1535	**487Z69**
BDMT11T308ERN3PR1210	0.264 in	0.031"	PR1210	**487X79**
BDMT11T308ERN3PR1225	0.264 in	0.031"	PR1225	**487X50**
BDMT11T308ERN3PR1230	0.264 in	0.031"	PR1230	**487Y09**
BDMT11T308ERN3PR1535	0.264 in	0.031"	PR1535	**487Z70**
BDMT11T312ERJTPR1210	0.264 in	0.047"	PR1210	**487X23**
BDMT11T312ERJTPR1225	0.264 in	0.047"	PR1225	**487X51**
BDMT11T316ERJTCA6535	0.264 in	0.063"	CA6535	**487Y66**
BDMT11T316ERJTPR1210	0.264 in	0.063"	PR1210	**487X24**
BDMT11T316ERJTPR1225	0.264 in	0.063"	PR1225	**487X52**
BDMT11T316ERJTPR1535	0.264 in	0.063"	PR1535	**487Y46**
BDMT11T320ERJTPR1225	0.264 in	0.079"	PR1225	**487X53**
BDMT11T324ERJTPR1225	0.264 in	0.094"	PR1225	**487X54**
BDMT11T324ERJTPR1535	0.264 in	0.094"	PR1535	**487Y79**
BDMT11T331ERJTCA6535	0.264 in	0.122"	CA6535	**487Y82**
BDMT11T331ERJTPR1225	0.264 in	0.122"	PR1225	**487X55**
BDMT11T331ERJTPR1535	0.264 in	0.122"	PR1535	**487Y80**
BDMT070302ERJSPR1225	0.181 in	0.008"	PR1225	**487X32**
BDMT070302ERJTPR1225	0.181 in	0.008"	PR1225	**487X33**
BDMT070304ERJSPR1225	0.181 in	0.016"	PR1225	**487X34**
BDMT070304ERJSPR1535	0.181 in	0.016"	PR1535	**487Z64**
BDMT070304ERJTPR1210	0.181 in	0.016"	PR1210	**487X88**
BDMT070304ERJTPR1225	0.181 in	0.016"	PR1225	**487X35**
BDMT070304ERJTPR1535	0.181 in	0.016"	PR1535	**487Z66**
BDMT070308ERJSCA6535	0.181 in	0.031"	CA6535	**487Z77**

ISO Grade	Application	First Choice Grade
K	Cast Iron	PR1210
H	Hardened	PR1525
N	Non Ferrous	PDL025, KW10, KPD230, KPD001, GW25,
M	Stainless	PR1535, PR1230, PR1225, CA2425, CA2325,
P	Steel	TN100M, PR1525, PR1230, PR1225, CA2425, CA2325
S	Super Alloy	PR1535, PR1210, KW10, KPD230, KPD001, GW25, CA6535,

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
BDMT070308ERJSPR1225	0.181 in	0.031"	PR1225	**487X36**
BDMT070308ERJSPR1535	0.181 in	0.031"	PR1535	**487Z65**
BDMT070308ERJTCA6535	0.181 in	0.031"	CA6535	**487Z78**
BDMT070308ERJTPR1210	0.181 in	0.031"	PR1210	**487X89**
BDMT070308ERJTPR1225	0.181 in	0.031"	PR1225	**487X37**
BDMT110302ERJSPR1225	0.248 in	0.008"	PR1225	**487X38**
BDMT110302ERJTPR1225	0.248 in	0.008"	PR1225	**487X39**
BDMT110304ERJSPR1225	0.248 in	0.016"	PR1225	**487X40**
BDMT110304ERJSPR1535	0.248 in	0.016"	PR1535	**487Z68**
BDMT110304ERJTPR1225	0.248 in	0.016"	PR1225	**487X41**
BDMT110308ERJTPR1225	0.248 in	0.031"	PR1225	**487X42**
BDMT170402FRKPD001	0.378 in	0.008"	KPD001	**487X07**
BDMT170404ERJSPR1225	0.378 in	0.016"	PR1225	**487X56**
BDMT170404ERJTCA6535	0.378 in	0.016"	CA6535	**487Y67**
BDMT170404ERJTPR1210	0.378 in	0.016"	PR1210	**487X25**
BDMT170404ERJTPR1225	0.378 in	0.016"	PR1225	**487X57**
BDMT170404ERJTPR1535	0.378 in	0.016"	PR1535	**487Y48**
BDMT170404FRKPD001	0.378 in	0.016"	KPD001	**487X08**
BDMT170404FRKPD230	0.378 in	0.016"	KPD230	**487X12**
BDMT170408ERJSCA6535	0.378 in	0.031"	CA6535	**487Y63**
BDMT170408ERJSPR1225	0.378 in	0.031"	PR1225	**487X58**
BDMT170408ERJSPR1535	0.378 in	0.031"	PR1535	**487Y43**
BDMT170408ERJTCA6535	0.378 in	0.031"	CA6535	**487Y68**
BDMT170408ERJTPR1210	0.378 in	0.031"	PR1210	**487X26**
BDMT170408ERJTPR1225	0.378 in	0.031"	PR1225	**487X59**
BDMT170408ERJTPR1535	0.378 in	0.031"	PR1535	**487Y49**
BDMT170408ERN3PR1225	0.378 in	0.031"	PR1225	**487X60**
BDMT170408ERN3PR1230	0.378 in	0.031"	PR1230	**487Y10**
BDMT170408ERN3PR1535	0.378 in	0.031"	PR1535	**487Z71**
BDMT170408ERN4PR1225	0.378 in	0.031"	PR1225	**487X61**
BDMT170408ERN4PR1230	0.378 in	0.031"	PR1230	**487Y11**
BDMT170408ERN4PR1535	0.378 in	0.031"	PR1535	**487Z72**
BDMT170412ERJTPR1225	0.378 in	0.047"	PR1225	**487X62**
BDMT170416ERJTCA6535	0.378 in	0.063"	CA6535	**487Y69**
BDMT170416ERJTPR1210	0.378 in	0.063"	PR1210	**487X27**
BDMT170416ERJTPR1225	0.378 in	0.063"	PR1225	**487X63**
BDMT170416ERJTPR1535	0.378 in	0.063"	PR1535	**487Y50**
BDMT170420ERJTPR1210	0.378 in	0.079"	PR1210	**487X28**
BDMT170420ERJTPR1225	0.378 in	0.079"	PR1225	**487X64**
BDMT170420ERJTPR1535	0.378 in	0.079"	PR1535	**487Y81**
BDMT170424ERJTPR1225	0.378 in	0.094"	PR1225	**487X65**
BDMT170431ERJTCA6535	0.378 in	0.122"	CA6535	**487Y70**
BDMT170431ERJTPR1225	0.378 in	0.122"	PR1225	**487X66**
BDMT170431ERJTPR1535	0.378 in	0.122"	PR1535	**487Y51**
BDMT170440ERJTPR1225	0.378 in	0.157"	PR1225	**487X67**
GOMT08T208ERDPR1210	0.205 in	0.031"	PR1210	**487X92**
GOMT08T208ERDPR1225	0.205 in	0.031"	PR1225	**487X98**
GOMT13T308ERDPR1210	0.329 in	0.031"	PR1210	**487X93**
GOMT100308ERDPR1225	0.258 in	0.031"	PR1225	**487X99**
GOMT160408ERDPR1210	0.395 in	0.031"	PR1210	**487X94**
GOMT160408ERDPR1225	0.395 in	0.031"	PR1225	**487Y01**
XPMT15T304CA2325	0.375 in	0.016"	CA2325	**487W94**
XPMT15T308KW10	0.375 in	0.031"	KW10	**488A11**
XPMT090208PR1525	0.250 in	0.031"	PR1525	**488A17**
XPMT090208TN100M	0.250 in	0.031"	TN100M	**488A12**
Pentagon				
PNMU1205ANERGMPR1225	0.7040 in	0.079"	PR1225	**487X14**
PNMU1205ANERGMPR1535	0.7040 in	0.079"	PR1535	**487Y57**
Rectangle				
GOMT13T308ERD PR1225	0.329 in	0.032"	PR1225	**53CE57**
JOMT13T308ERD PR1225	0.329 in	0.032"	PR1225	**53CE58**
LOGT100408FRAMPDL025	0.268 in	0.031"	PDL025	**488A09**
LOGU030310ERGMCA6535	0.244 in	0.039"	CA6535	**487Z91**
LOGU030310ERGMPR1525	0.244 in	0.039"	PR1525	**487Z89**
LOMU100408ERGMPR1525	0.260 in	0.031"	PR1525	**487Y24**
LOMU100420ERGM PR1525	0.260 in	0.079"	PR1525	**53CE59**
LPGT010210ERGMPR1535	0.165 in	0.039"	PR1535	**488A05**
Round				
RPGT1204M0ERGMCA6535	0.4720 in	0.236"	CA6535	**487Z36**
RPMT10T3M0ENGHPR1525	0.3940 in	0.138"	PR1525	**487Z27**
Square				
SOMT100420ERLDPR1535	0.4110 in	0.079"	PR1535	**487Z12**
Trigon				
WNGT080608FNAMGW25	0.5520 in	0.031"	GW25	**488A03**
WNMU080608ENGHPR1525	0.5520 in	0.031"	PR1525	**487Y29**



Special Edition

Mini



Comfort NG



Premium NG

HAIMER

Power Clamp Shrink Fit Machines

- Compatible with carbide and HSS tools
- 5-second shrink time
- Induction shrink fitting style
- Integrated contact cooling (except No. 52TV71)

Mini—This single chuck version features standard coil V2008 and interchangeable stop discs. Includes base holder, chuck support, and 3 stop discs.

Special Edition—This single chuck version features standard coil V2008 and interchangeable stop discs. This unit includes cooling manager, base holder, and chuck support.

Comfort NG—Includes intelligent NG coil, rotary table with 3 stations plus chuck support, and cooling manager.

Premium NG—Features intelligent NG coil and integrated drawer. Integrated contacted cooling has 5 cooling bodies fixed to linear guides. Includes cooling manager, 2 precision base holders, and 2 precision chuck supports.

Description	Shrinking Dia. Range First Coil	Max. Diameter Second Coil	Max. Chuck Length	Watts	Mfr. Model	Item No.
Mini	⅛" to ⅝"	—	350.00mm	10,000	80.143.00	**52TV71**
Special Edition	⅛" to 1¼"	—	510.00mm	13,000	80.110.11SE	**52TV69**
Comfort NG	⅛" to 1¼"	50.80mm	570.00mm	13,000	80.100.01NG.3	**52TV63**
Premium NG	⅛" to 1¼"	—	535.00mm	13,000	80.170.01NG.3	**52TV75**



CAT40
No. 46LL81



HSK63A
No. 46LX87

HAIMER

Standard Shrink Fit Chucks

- Balanced to 25,000 rpm

Made of heat-resistant, hot-working steel with a fine-machined surface. Suitable for all kinds of high-speed steel and solid carbide shrink-fit units. Features include high runout accuracy, extreme clamping torque by high pressing in the clamping bore, short camfer, reinforced shank, slimness (marginal interference contour), and rigidity. CAT40 Form ADB means central-coolant supply and coolant channels through the flange can be sealed again. Threaded bores allow for simple and fast balancing with screws.

Hole Dia.	Projection	Mfr. Model	Item No.
CAT40			
⅛"	3.15"	40.840.1/8Z	**46LL89**
3⁄16"	3.15"	40.840.3/16Z	**46LL98**
¼"	3.15"	40.840.1/4z.4	**46LL88**
	5.12"	40.844.1/4z.4	**46LM55**
	6.30"	40.842.1/4z.4	**46LM16**
5⁄16"	3.15"	40.840.5/16z.4	**46LM03**
	5.12"	40.844.5/16z.4	**46LM79**
	6.30"	40.842.5/16z.4	**46LM40**
⅜"	3.15"	40.840.3/8z.4	**46LM01**
	5.12"	40.844.3/8z.4	**46LM76**
	6.30"	40.842.3/8z.4	**46LM38**
7⁄16"	3.15"	40.840.7/16z.4	**46LM05**
	5.12"	40.844.7/16z.4	**46LM83**
	6.30"	40.842.7/16z.4	**46LM44**
½"	3.15"	40.840.1/2Z.26	**46LL86**
	3.15"	40.840.1/2z.4	**46LL87**
	5.12"	40.844.1/2z.4	**46LM53**
	6.30"	40.842.1/2Z.26	**46LM11**
	6.30"	40.842.1/2z.4	**46LM14**
5⁄8"	3.15"	40.840.5/8z.4	**46LM04**
	5.12"	40.844.5/8z.4	**46LM82**
	6.30"	40.842.5/8z.4	**46LM43**
¾"	3.15"	40.840.3/4z.4	**46LL99**
	5.12"	40.844.3/4z.4	**46LM74**
	6.30"	40.842.3/4z.4	**46LM35**
⅞"	3.15"	40.840.7/8z.4	**46LM06**
	5.12"	40.844.7/8z.4	**46LM84**
	6.30"	40.842.7/8z.4	**46LM45**
1"	3.94"	40.840.1z.4	**46LL95**
	5.12"	40.844.1z.4	**46LM66**
	6.30"	40.842.1z.4	**46LM27**
1¼"	3.94"	40.840.11/4z.4	**46LL91**
	5.12"	40.844.11/4z.4	**46LM58**
	6.30"	40.842.11/4z.4	**46LM19**
3mm	80.00mm	40.840.03	**46LM81**
4mm	80.00mm	40.840.04	**46LL82**
5mm	80.00mm	40.840.05	**46LL83**
6mm	80.00mm	40.840.06.4	**46LL84**
	130.00mm	40.844.06.4	**46LM47**
	160.00mm	40.842.06.4	**46LM08**
8mm	80.00mm	40.840.08.4	**46LL85**
	130.00mm	40.844.08.4	**46LM49**
	160.00mm	40.842.08.4	**46LM10**
10mm	80.00mm	40.840.10.4	**46LL90**
	130.00mm	40.844.10.4	**46LM57**
	160.00mm	40.842.10.4	**46LM18**
12mm	80.00mm	40.840.12.4	**46LL92**
	130.00mm	40.844.12.4	**46LM61**
	160.00mm	40.842.12.4	**46LM22**
14mm	80.00mm	40.840.14.4	**46LL93**
	130.00mm	40.844.14.4	**46LM62**
	160.00mm	40.842.14.4	**46LM23**
16mm	80.00mm	40.840.16.4	**46LL94**
	130.00mm	40.844.16.4	**46LM65**
	160.00mm	40.842.16.4	**46LM26**
20mm	80.00mm	40.840.20.4	**46LL96**
	130.00mm	40.844.20.4	**46LM69**
	160.00mm	40.842.20.4	**46LM30**
25mm	100.00mm	40.840.25.4	**46LL97**
	130.00mm	40.844.25.4	**46LM70**
	160.00mm	40.842.25.4	**46LM31**
32mm	100.00mm	40.840.32.4	**46LM02**
	130.00mm	40.844.32.4	**46LM77**
CAT50			
¼"	3.15"	50.840.1/4Z.26	**46LT12**
	3.15"	50.840.1/4z.4	**46LT15**
	5.12"	50.844.1/4z.4	**46LU15**
	6.30"	50.842.1/4z.4	**46LT71**
5⁄16"	3.15"	50.840.5/16z.26	**46LT52**
	3.15"	50.840.5/16z.4	**46LT54**
	5.12"	50.844.5/16z.4	**46LU28**
	6.30"	50.842.5/16z.4	**46LU05**
⅜"	3.15"	50.840.3/8z.4	**46LT50**
	5.12"	50.844.3/8z.4	**46LU26**
	6.30"	50.842.3/8z.4	**46LU02**
7⁄16"	3.15"	50.840.7/16z.4	**46LT59**
	5.12"	50.844.7/16z.4	**46LU30**
	6.30"	50.842.7/16z.4	**46LU10**
½"	3.15"	50.840.1/2z.4	**46LT11**
	5.12"	50.844.1/2z.4	**46LU14**
	6.30"	50.842.1/2z.4	**46LT68**
5⁄8"	3.15"	50.840.5/8z.4	**46LT58**
	5.12"	50.844.5/8z.4	**46LU29**
	6.30"	50.842.5/8z.4	**46LU09**
¾"	3.15"	50.840.3/4z.26	**46LT42**
	3.15"	50.840.3/4z.4	**46LT47**
	5.12"	50.844.3/4z.4	**46LU25**
	6.30"	50.842.3/4Z.4	**46LT98**
⅞"	5.12"	50.844.7/8z.4	**46LU31**
	6.30"	50.842.7/8z.4	**46LU11**
1"	3.94"	50.840.1z.4	**46LT35**
	5.12"	50.844.1z.4	**46LU22**
	6.30"	50.842.1z.4	**46LT88**
1¼"	3.94"	50.840.11/4z.4	**46LT20**
	5.12"	50.844.11/4z.4	**46LU17**
	6.30"	50.842.11/4z.4	**46LT74**
6mm	80.00mm	50.840.06.4	**46LT04**
	130.00mm	50.844.06.4	**46LU12**
	160.00mm	50.842.06.4	**46LT62**
8mm	80.00mm	50.840.08.4	**46LT07**
	130.00mm	50.844.08.4	**46LU13**
	160.00mm	50.842.08.4	**46LT64**
10mm	80.00mm	50.840.10.26	**46LT16**
	80.00mm	50.840.10.4	**46LT19**
	130.00mm	50.844.10.4	**46LU16**
	160.00mm	50.842.10.4	**46LT73**
12mm	80.00mm	50.840.12.4	**46LT23**
	130.00mm	50.844.12.4	**46LU18**
	160.00mm	50.842.12.4	**46LT77**
14mm	80.00mm	50.840.14.4	**46LT26**
	130.00mm	50.844.14.4	**46LU19**
	160.00mm	50.842.14.4	**46LT80**
16mm	80.00mm	50.840.16.4	**46LT29**
	130.00mm	50.844.16.4	**46LU20**
	160.00mm	50.842.16.4	**46LT83**
18mm	80.00mm	50.840.18.4	**46LT32**
	130.00mm	50.844.18.4	**46LU21**
	80.00mm	50.840.20.4	**46LT38**
20mm	130.00mm	50.844.20.4	**46LU23**
	160.00mm	50.842.20.4	**46LT91**
	100.00mm	50.840.25.4	**46LT41**
25mm	130.00mm	50.844.25.4	**46LU24**
	160.00mm	50.842.25.4	**46LT93**
	100.00mm	50.840.32.4	**46LT51**
32mm	130.00mm	50.844.32.4	**46LU27**
	160.00mm	50.842.32.4	**46LU03**
HSK63A			
⅛"	3.15"	A63.140.1/8Z	**46LX87**
3⁄16"	3.15"	A63.140.3/16Z	**46LY09**
¼"	3.15"	A63.140.1/4z.26	**46LX86**
	3.15"	A63.140.1/4Z.4	**46LX85**
	5.12"	A63.144.1/4z.4	**46LY90**
	6.30"	A63.142.1/4z.4	**46LY34**
5⁄16"	3.15"	A63.140.5/16z.4	**46LY18**
	5.12"	A63.144.5/16z.4	**46LZ37**
	6.30"	A63.142.5/16z.4	**46LY72**
⅜"	3.35"	A63.140.3/8Z.26	**46LY14**
	3.35"	A63.140.3/8z.4	**46LY15**
	5.12"	A63.144.3/8z.4	**46LZ33**
	6.30"	A63.142.3/8z.4	**46LY67**
7⁄16"	3.35"	A63.140.7/16z.4	**46LY22**
	5.12"	A63.144.7/16Z.4	**46LZ42**
	6.30"	A63.142.7/16Z.4	**46LY77**
½"	3.54"	A63.140.1/2z.26	**46LX84**
	3.54"	A63.140.1/2Z.4	**46LX83**
	5.12"	A63.144.1/2z.4	**46LY87**
	6.30"	A63.142.1/2z.4	**46LY31**
5⁄8"	3.74"	A63.140.5/8z.4	**46LY19**
	5.12"	A63.144.5/8z.4	**46LZ41**
	6.30"	A63.142.5/8z.4	**46LY76**
¾"	3.94"	A63.140.3/4Z.26	**46LY10**
	3.94"	A63.140.3/4z.4	**46LY11**
	5.12"	A63.144.3/4z.4	**46LZ30**
	6.30"	A63.142.3/4z.4	**46LY64**
1"	4.53"	A63.140.1Z.4	**46LY02**
	5.12"	A63.144.1z.4	**46LZ18**
	6.30"	A63.142.1z.4	**46LY54**
1¼"	4.72"	A63.140.11/4z.4	**46LX90**
	5.12"	A63.144.11/4z.4	**46LY96**
	6.30"	A63.142.11/4Z.4	**46LY39**

TECHNIKS BUILT FOR SPEED

CV40 Toolholders

These toolholders securely grip and center rotary cutting tools to enable them to make accurate cuts.

End mill holders attach end mills to a milling machine. They grip more securely than a collet to keep end mills from spinning or pulling out during heavy cuts.

Shell mill holders secure shell mills and face mills to a milling machine.

Shrink-fit toolholders use thermal contraction rather than mechanical tightening to get a strong, uniform grip on cutting tools. They provide more gripping force, better balance, and higher concentricity in high-speed machining applications than collets, milling chucks, or hydraulic chucks.



End Mill Holder No. 40MZ59



Shell Mill Holder No. 35YJ20



Shrink Fit Tool Holder No. 35YJ55

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
End Mill Holder				
¼ in	2½ in	0.7800 in	—	**35YJ29**
	4.7200 in	0.7800 in	Coolant Through	**40MZ20**
	6 in	0.7800 in	Coolant Through	**40MZ22**
5/16 in	2½ in	⅞ in	Coolant Through	**40MZ27**
⅜ in	2½ in	1 in	—	**35YJ31**
	5 in	1 in	Coolant Through	**40MZ38**
7/16 in	2½ in	1.1300 in	Coolant Through	**40MZ43**
½ in	1¾ in	1¼ in	—	**35YJ33**
	2⅝ in	1¼ in	Coolant Through	**40MZ47**
	4.7200 in	1.3800 in	Coolant Through	**40MZ48**
⅝ in	1¾ in	1½ in	Coolant Through	**40MZ53**
	3¾ in	1½ in	Coolant Through	**40MG89**
	5¾ in	1½ in	Coolant Through	**40MZ59**
¾ in	1¾ in	1¾ in	—	**35YJ38**
	3 in	1¾ in	—	**35YJ37**
	5 in	1¾ in	Coolant Through	**40MZ67**

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
1 in	1¾ in	2 in	—	**35YJ43**
	3 in	2 in	—	**35YJ41**
	4 in	2 in	—	**35YJ40**
	6 in	2 in	—	**35YJ42**
	6 in	2½ in	Coolant Through	**40MZ74**
1¼ in	2 in	2½ in	Coolant Through	**40MZ75**
	4 in	2½ in	Coolant Through	**40MZ73**
1½ in	4 in	2½ in	Coolant Through	**40MG92**
8.00mm	63.50mm	28.00mm	Coolant Through	**40MG98**
10.00mm	63.50mm	35.00mm	Coolant Through	**40MG99**
12.00mm	2½ in	42.00mm	—	**35YJ52**
16.00mm	63.50mm	48.00mm	Coolant Through	**40MH01**
20.00mm	76.00mm	52.00mm	Coolant Through	**40MH02**
25.00mm	101.00mm	65.00mm	Coolant Through	**40MH03**

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
Shell Mill Holder				
—	1.3700 in	⅞ in	Non-Coolant Through	**35YJ20**
	2-1/6 in	1.1900 in	Non-Coolant Through	**35YJ22**
	4 in	⅞ in	Non-Coolant Through	**35YJ21**
	4 in	1.1900 in	Non-Coolant Through	**35YJ23**
Shrink Fit Tool Holder				
—	3 in	0.9400 in	Coolant Through	**35YJ55**
	3.9400 in	21.00mm	Coolant Through	**35YJ56**

TECHNIKS BUILT FOR SPEED

Collet Chuck

- Coolant-Through

Collet chucks connect collets to milling machines, lathes, and other manual and CNC machine tools so that the collets can hold small-diameter tools and workpieces securely on the machine.



No. 35YJ07

Projection	Nose Dia.	Max. Collet Capacity	Min. Collet Capacity	Item No.
1.1000 in	1.5700 in	0.787 in	0.0390 in	**35YJ07**
2.7600 in	1.0800 in	0.406 in	0.0200 in	**35YH99**
	1.3400 in	0.512 in	0.0200 in	**35YJ02**
	1.9700 in	0.787 in	0.0390 in	**35YJ06**
2½ in	1.6500 in	0.750 in	0.0390 in	**40MY80**
3.1500 in	2.4800 in	1.024 in	0.0860 in	**40MG61**
4 in	1.0800 in	0.406 in	0.0200 in	**35YJ01**
	1.3400 in	0.512 in	0.0200 in	**35YJ03**
	1.6500 in	0.750 in	0.0390 in	**40MG58**
	1.9700 in	0.787 in	0.0390 in	**35YJ08**
6 in	1.3400 in	0.512 in	0.0200 in	**35YJ04**
	1.6500 in	0.750 in	0.0390 in	**35YJ05**
	1.9700 in	0.787 in	0.0390 in	**35YJ09**

LYNDEX NIKKEN

Shell Mill Holders

These holders are quick and easy to set up and accommodate face mills with bore diameters ranging from ½" to 2". Pilot diameter sized for precision fit with cutter. Include removable/replaceable drive keys and arbor screw.



BT30 No. 38NV44

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
BT30	½ in	0.5700 in	1.1900 in	1.378"	¼"-28	**38NV44**
	¾ in	0.6700 in	1.1900 in	1.929"	⅜"-24	**38NV45**
	1 in	0.6700 in	1.1900 in	2.382"	½"-20	**38NV46**
BT40	½ in	0.5700 in	1¾ in	1.378"	¼"-28	**38NW08**
	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38NW09**
	1 in	0.6700 in	1¾ in	2.382"	½"-20	**38NW10**
	1½ in	0.9200 in	2 in	3.799"	¾"-16	**38NW11**
BT50	1 in	0.6800 in	1¾ in	2.382"	½"-20	**38NX21**
	1 in	0.6800 in	4 in	2.382"	½"-20	**38NX68**
	1¼ in	0.6800 in	2 in	2.882"	⅝"-18	**38NX22**
	1¼ in	0.6800 in	4 in	2.882"	⅝"-18	**38NX69**
	1¼ in	0.6800 in	6 in	2.882"	⅝"-18	**38NX89**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38NX23**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38NX70**
	2 in	0.9300 in	2 in	4.382"	1"-14	**38NX24**
CV40	½ in	0.5700 in	1¾ in	1.378"	¼"-28	**38NZ74**
	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38NZ75**
	¾ in	0.6700 in	4 in	1.929"	⅜"-24	**38PA47**
	1 in	0.6700 in	1¾ in	2.382"	½"-20	**38NZ76**
	1 in	0.6700 in	4 in	2.382"	½"-20	**38PA48**
	1¼ in	0.6700 in	2 in	2.882"	⅝"-18	**38NZ77**
	1¼ in	0.6700 in	4 in	2.882"	⅝"-18	**38PA49**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38NZ78**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38PA50**

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
CV50	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38PC43**
	¾ in	0.6700 in	4 in	1.929"	⅜"-24	**38PD21**
	¾ in	0.6700 in	6 in	1.929"	⅜"-24	**38PD60**
	¾ in	0.6700 in	8 in	1.929"	⅜"-24	**38PD90**
	1 in	0.6900 in	1¾ in	2.382"	½"-20	**38PC44**
	1 in	0.6900 in	4 in	2.382"	½"-20	**38PD22**
	1 in	0.6900 in	6 in	2.382"	½"-20	**38PD61**
	1 in	0.6900 in	8 in	2.382"	½"-20	**38PD91**
	1¼ in	0.6900 in	1¾ in	2.882"	⅝"-18	**38PC45**
	1¼ in	0.6900 in	4 in	2.882"	⅝"-18	**38PD23**
	1¼ in	0.6900 in	6 in	2.882"	⅝"-18	**38PD62**
	1¼ in	0.6900 in	8 in	2.882"	⅝"-18	**38PD92**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38PC46**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38PD24**
	1½ in	0.9300 in	6 in	3.799"	¾"-16	**38PD63**
	1½ in	0.9300 in	8 in	3.799"	¾"-16	**38PD93**
	2 in	0.9300 in	2 in	4.382"	1"-14	**38PC47**
	2 in	0.9300 in	4 in	4.382"	1"-14	**38PD25**
HSK100A	¾ in	0.6690 in	6 in	1.693"	⅜"-24	**38PW60**
	1 in	0.6690 in	4 in	2.165"	½"-20	**38PW61**
	1 in	0.6690 in	6 in	2.165"	½"-20	**38PW62**
	1¼ in	0.6690 in	6 in	2.756"	⅝"-18	**38PW63**
	2 in	0.9020 in	4 in	4.488"	1"-14	**38PW64**
	2 in	0.9020 in	6 in	4.488"	1"-14	**38PW65**

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
HSK40A	¾ in	0.6700 in	2 23/64 in	1.690"	⅜"-24	**38PW93**
	1 in	0.6700 in	2 23/64 in	2.170"	½"-20	**38PW94**
HSK63A	¾ in	0.6690 in	3 in	1.693"	⅜"-24	**38PX71**
	¾ in	0.6690 in	5 in	1.693"	⅜"-24	**38PX72**
	1 in	0.6690 in	3 in	2.165"	½"-20	**38PX73**
	1¼ in	0.6690 in	5 in	2.756"	⅝"-18	**38PX74**
NMTB30	½ in	0.5700 in	1¼ in	1.378"	¼"-28	**38PZ17**
	¾ in	0.6700 in	1.3100 in	1.929"	⅜"-24	**38PZ18**
	1 in	0.6700 in	1.3100 in	2.382"	½"-20	**38PZ19**
NMTB40	½ in	0.5700 in	⅞ in	1.382"	¼"-28	**38PZ49**
	1¼ in	0.6700 in	1½ in	2.882"	⅝"-18	**38PZ52**
NMTB50	1 in	0.6700 in	1⅞ in	2.382"	½"-20	**38PZ92**
	1¼ in	0.6700 in	1⅞ in	2.882"	⅝"-18	**38PZ93**
R8	½ in	0.5700 in	1 in	1.380"	¼"-28	**38NV25**
	¾ in	0.6900 in	1 in	2"	⅜"-24	**38NV26**
	1 in	0.6900 in	1 in	2.380"	½"-20	**38NV27**
	1¼ in	0.6900 in	1 in	2.880"	⅝"-18	**38NV28**
	1½ in	0.9400 in	1¾ in	3.500"	¾"-16	**38NV29**

TECHNIKS BUILT FOR SPEED

ER Milling and Drilling Collets



042/ER-16 Series



045/ER-16 Series

- Heat-treated for improved flexibility and durability
- Made from high-carbon bearing steel

042 Series—Precision collets feature a collapse range of 0.039" and an average T.I.R. of 0.0002". Can be used with RD, DR, ESX, and BR collet chucks.

045 Series—Steel-sealed precision coolant collets are sealed to 2000 psi with no plugs to fail. They protect the toolholder from contaminants. Can be used with ER, RD, DR, ESX, and BR collet chucks.

Collet Series	Size	Mfr. Model	Item No.
Fractional			
042 Series			
ER16	1/16"	04216-1/16	40MM62
	3/32"	04216-3/32	40MM67
	1/8"	04216-1/8	35YG76
	5/32"	04216-5/32	40MM68
	3/16"	04216-3/16	35YG77
	7/32"	04216-7/32	40MM69
	1/4"	04216-1/4	35YG75
	9/32"	04216-9/32	40MM70
	5/16"	04216-5/16	35YG79
	11/32"	04216-11/32	40MM65
	3/8"	04216-3/8	35YG78
	13/32"	04216-13/32	40MM66
ER20	1/16"	04220-1/16	40MM87
	3/32"	04220-3/32	40MM95
	1/8"	04220-1/8	35YG84
	5/32"	04220-5/32	40MM96
	3/16"	04220-3/16	35YG88
	7/32"	04220-7/32	40MM98
	1/4"	04220-1/4	35YG83
	9/32"	04220-9/32	40MM99
	5/16"	04220-5/16	35YG90
	11/32"	04220-11/32	40MM90
	3/8"	04220-3/8	35YG89
	13/32"	04220-13/32	40MM94
	7/16"	04220-7/16	40MM97
	15/32"	04220-15/32	35YG87
	1/2"	04220-1/2	35YG82
ER25	3/32"	04225-3/32	40MN23
	1/8"	04225-1/8	35YG93
	5/32"	04225-5/32	40MN25
	3/16"	04225-3/16	40MN22
	7/32"	04225-7/32	40MN27
	1/4"	04225-1/4	35YG92
	9/32"	04225-9/32	40MN29
	5/16"	04225-5/16	40MN24
	11/32"	04225-11/32	40MN17
	3/8"	04225-3/8	35YG95
	13/32"	04225-13/32	40MN18
	7/16"	04225-7/16	40MN26
	15/32"	04225-15/32	40MN19
	1/2"	04225-1/2	35YG91
	17/32"	04225-17/32	40MN20
	9/16"	04225-9/16	40MN28
	19/32"	04225-19/32	40MN21
	5/8"	04225-5/8	35YG96
	3/4"	04225-3/4	35YG94
ER32	3/32"	04232-3/32	35YH11
	1/8"	04232-1/8	35YH03
	5/32"	04232-5/32	35YH15
	3/16"	04232-3/16	35YH10
	1/4"	04232-1/4	35YH02
	5/16"	04232-5/16	35YH14
	3/8"	04232-3/8	35YH13
	7/16"	04232-7/16	35YH17
	1/2"	04232-1/2	35YH01
	9/16"	04232-9/16	35YH18
	19/32"	04232-19/32	35YH08
	5/8"	04232-5/8	35YH16
	11/16"	04232-11/16	35YH06
	3/4"	04232-3/4	35YH12
ER40	1/8"	04240-1/8	35YH22
	1/4"	04240-1/4	35YH21
	11/32"	04240-11/32	35YH23
	3/8"	04240-3/8	35YH25
	1/2"	04240-1/2	35YH20
	3/4"	04240-3/4	35YH24
	7/8"	04240-7/8	35YH26
	1"	04240-1	35YH19
045 Series			
ER20	5/16"	04544-5/16	35YH31
ER32	7/16"	04546-7/16	35YH47
	1/2"	04546-1/2	35YH37
	5/8"	04546-5/8	35YH46
	11/16"	04546-11/16	35YH39
	3/4"	04546-3/4	35YH45
ER40	1"	04547-1	35YH48

Collet Series	Size	Mfr. Model	Item No.
Metric			
042 Series			
ER16	1.0mm	04216-01	40MM47
	1.5mm	04216-01.5	40MM48
	2.0mm	04216-02	40MM49
	2.5mm	04216-02.5	40MM50
	3.0mm	04216-03	35YG72
	3.5mm	04216-03.5	40MM51
	4.0mm	04216-04	40MM52
	4.5mm	04216-04.5	40MM53
	5.5mm	04216-05.5	40MM54
	6.0mm	04216-06	35YG74
	6.5mm	04216-06.5	40MM55
	7.0mm	04216-07	40MM56
	7.5mm	04216-07.5	40MM57
	8.0mm	04216-08	40MM58
	8.5mm	04216-08.5	40MM59
	9.0mm	04216-09	40MM60
	9.5mm	04216-09.5	40MM61
	10.0mm	04216-10	40MM63
	10.5mm	04216-10.5	40MM64
ER20	1.0mm	04220-01	40MM71
	1.5mm	04220-01.5	40MM72
	2.0mm	04220-02	40MM73
	2.5mm	04220-02.5	40MM74
	3.0mm	04220-03	40MM75
	3.5mm	04220-03.5	40MM76
	4.0mm	04220-04	40MM77
	4.5mm	04220-04.5	40MM78
	5.0mm	04220-05	40MM79
	5.5mm	04220-05.5	40MM80
	6.0mm	04220-06	40MM81
	6.5mm	04220-06.5	40MM82
	7.0mm	04220-07	40MM83
	7.5mm	04220-07.5	40MM84
	8.0mm	04220-08	35YG80
	8.5mm	04220-08.5	40MM85
	9.0mm	04220-09	35YG81
	9.5mm	04220-09.5	40MM86
	10.0mm	04220-10	35YG85
	10.5mm	04220-10.5	40MM88
	11.0mm	04220-11	35YG86
	11.5mm	04220-11.5	40MM89
	12.5mm	04220-12.5	40MM91
	13.0mm	04220-13	40MM92
	13.5mm	04220-13.5	40MM93
ER25	2.0mm	04225-02	40MN01
	2.5mm	04225-02.5	40MN02
	3.0mm	04225-03	40MN03
	3.5mm	04225-03.5	40MN04
	4.0mm	04225-04	40MN05
	5.0mm	04225-05	40MN06
	6.0mm	04225-06	40MN07
	7.0mm	04225-07	40MN08
	8.0mm	04225-08	40MN09
	9.0mm	04225-09	40MN10
	10.0mm	04225-10	40MN11
	11.0mm	04225-11	40MN12
	13.0mm	04225-13	40MN13
	15.0mm	04225-15	40MN14
	16.0mm	04225-16	40MN15
	17.0mm	04225-17	40MN16
ER32	6.0mm	04232-06	35YG97
	8.0mm	04232-08	35YG98
	9.0mm	04232-09	35YG99
	10.0mm	04232-10	35YH04
	11.0mm	04232-11	35YH05
	12.0mm	04232-12	35YH07
	20.0mm	04232-20	35YH09
045 Series			
ER16	6.0mm	04543-06	35YH27
	8.0mm	04543-08	35YH28
	10.0mm	04543-10	35YH29
ER20	6.0mm	04544-06	35YH30
	11.0mm	04545-11	35YH32
ER25	12.0mm	04545-12	35YH33
	14.0mm	04545-14	35YH34
ER32	6.0mm	04546-06	35YH35
	8.0mm	04546-08	35YH36
	10.0mm	04546-10	35YH38
	12.0mm	04546-12	35YH40
	14.0mm	04546-14	35YH41
	16.0mm	04546-16	35YH42
	18.0mm	04546-18	35YH43
	20.0mm	04546-20	35YH44
ER40	16.0mm	04547-16	35YH49



ER16, 10-Pc.
No. 40MP43



ER32, 18-Pc.
No. 40MR17

TECHNIKS BUILT FOR SPEED

ER Collet Sets

- Includes Wooden Collet Tray

All surfaces are precision ground for maximum accuracy and milling chuck capability.

Collet Series	No. of Pieces	Size/Range	Item No.
ER16	4	0.168" to 0.255"	40MT59
	5	0.141" to 0.255"	40MR70
	8	3.0mm to 10.0mm	40MP44
	9	0.141" to 0.381"	40MR71
	10	0.5mm to 10.0mm	40MM08
	10	3/32" to 3/8"	40MP43
	15	3.0mm to 10.0mm	40MV05
ER20	8	0.168" to 0.381"	40MT68
	9	0.141" to 0.381"	40MR87
	11	3.0mm to 13.0mm	40MP68
	12	1.0mm to 13.0mm	40MM09
	12	3/32" to 1/2"	40MP67
	21	3.0mm to 13.0mm	40MV29
ER25	11	0.141" to 0.542"	40MR94
	11	0.168" to 0.480"	40MT69
	14	3.0mm to 16.0mm	40MP93
	14	7/32" to 5/8"	40MP92
	15	1.0mm to 16.0mm	40MM10
	16	1/8" to 5/8"	40MM45
	27	3.0mm to 16.0mm	40MV57
ER32	15	0.168" to 0.652"	40MT81
	16	0.141" to 0.652"	40MT17
	18	2.0mm to 20.0mm	40MM11
	18	7/32" to 3/4"	40MR17
	35	3.0mm to 20.0mm	40MV98
ER40	13	1/8" to 1"	40MM46
	14	6.0mm to 25.0mm	40MR49
	15	3/8" to 1"	40MR48
	21	0.141" to 0.800"	40MT36
	23	3.0mm to 26.0mm	40MM12

REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability



> Sign in or register on **Grainger.com®** today!





Hand Wrench
No. 35YH50



Retention Knob
No. 35YH97



Slot Nut
No. 35YJ65

Toolholder Setup Equipment

Item	Style	Size	For Use With	Item No.
Hand Wrench	E-Wrench	4.61"	ER16 Mini Nut	35YH53
	E-Wrench	8.11"	ER25 Nut	35YH50
	E-Wrench	9.96"	ER32 Nut	35YH51
	E-Wrench	11.38"	ER40 Nut	35YH52
Retention Knob	Coolant I	2.36"	BT40 Tool Holders	35YH80
	Coolant I	1.50"	CAT40 Tool Holders	35YH92
	Coolant I	2.25"	CAT40 Tool Holders	35YH91
	Coolant I	2.30"	CAT 50 Tool Holders	35YH97
	Coolant I	3.34"	CAT 50 Tool Holders	35YH94
	Coolant II	3.34"	CAT 50 Tool Holders	35YH95
	Coolant III	3.34"	CAT 50 Tool Holders	35YH96
	Straight	1.50"	CAT40 Tool Holders	35YH89
	Straight	2.25"	CAT40 Tool Holders	35YH90
	Straight	2.30"	CAT 50 Tool Holders	35YH93
Collet Nut	High Speed	1.18"	TG100 Tool Holders	35YJ54
Hex Nut	High Speed	1.08"	ER16 Tool Holders	35YJ62
Coolant Nut	Coolant I	1.65"	ER25 Coolant Collets and Tool Holders	35YJ63
	Coolant I	1.97"	ER32 Coolant Collets and Tool Holders	35YJ64
Slot Nut	High Speed	1.97"	ER32 Tool Holders	35YJ65
Short Wrench	Open Ended	1.41"	ER32 Short Holders	35YJ69

Tapping Collets

Rigid taps automatically stop spinning if tap reaches bottom of hole, preventing broken taps. Change worn taps in seconds.

Collet Series	Size	Mfr. Model	Item No.
Size 1 Rigid Tap	0.141"	19/11-4036	35YH83
	0.194"	19/11-4048	35YH84
	0.220"	19/11-4054	35YH85
	0.318"	19/11-4079	35YH86
	0.381"	19/11-4095	35YH87
	0.429"	19/11-4142	35YH88
Size 2 Rigid Tap	½"	31/12-4127	35YJ59
	⅝"	31/12-4158	35YJ60



Tool Platform
No. 2TRF7



ToolTower
No. 2TRD8



SpeedyScoot Cart
No. 2TRA9

CNC Toolholder Storage

- Steel construction

ToolScoot and SuperScoot mobile units have 2 swivel locking and 2 fixed casters.

Description	Holds	No. of Shelves	W (in.)	D (in.)	H (in.)	Color	Mfr. Model	Item No.
Heavy-Duty, 1000 lb. Caster Rating								
40 Taper								
Tool Platform	Up to 24 Tools	1	27¼	20¼	11	Black Sides w/Red Shelf	14840	2TRF7
ToolTower	Up to 72 Tools	3 Adjustable	27⁵⁄₁₆	18⁵⁄₁₆	36	Black Sides w/Red Shelves	13840	2TRD8
SpeedyScoot	Up to 24 Tools	1	30	15	35	Black Cart w/Black Shelf	33940	2TRA9
ToolScoot	Up to 48 Tools	2 Adjustable	35¼	18	35	Black Cart w/Red Shelves	13940	2TRE1
50 Taper								
Tool Platform	Up to 18 Tools	1	27¼	20¼	11	Black Sides w/Red Shelf	14850	2TRF8
ToolTower	Up to 54 Tools	3 Adjustable	27⁵⁄₁₆	18⁵⁄₁₆	36	Black Sides w/Red Shelves	13850	2TRD9
ToolScoot	Up to 15 Tools	1	30	15	35	Black Cart w/Black Shelf	33950	2TRC1
ToolScoot	Up to 36 Tools	2 Adjustable	35¼	18	35	Black Cart w/Red Shelves	13950	2TRE2
Super-Duty, 1600 lb. Caster Rating								
40 Taper								
SuperTower	Up to 135 Tools	3 Adjustable	33¾	17½	33½	Black Sides w/Gold Vein Shelves	23840	2TRC2
SuperScoot	Up to 90 Tools	2 Adjustable	45¼	17½	40	Black Cart w/Gold Vein Shelves	23940	2TRA7
50 Taper								
SuperTower	Up to 78 Tools	3 Adjustable	33¾	17½	33½	Black Sides w/Gold Vein Shelves	23850	2TRC3
SuperScoot	Up to 52 Tools	2 Adjustable	45¼	17½	40	Black Cart w/Gold Vein Shelves	23950	2TRA8



SuperScoot Cart
No. 2TRA7



Ball Bearing
No. 4LHL2



Plain Bearing
No. 3M312



Stainless Steel
No. 2DZH9

LLAMBRICH USA Jacobs CHUCK

Ball and Plain Bearing Drill Chucks

Chuck jaws are center ground for absolute straightness and alignment. Through-hardened sleeve teeth and hardened chuck nose provide superior wear resistance.

Ball Bearing—Engineered for heavy-duty, close tolerance production drilling. Designed to work with a wide range of production drilling equipment, jig borers, milling machines, lathes, and radials. Ball thrust bearings reduce friction and increase grip torque and overall performance.

Plain Bearing—Llambrich USA chucks feature 1-pc. gearing and sleeve to reduce the possibility of broken teeth. Ideal for stationary drilling, turning, milling, and wood working machines. Designed for medium-duty industrial use. Use threaded mounts for hand-held drilling, and tapered mounts for stationary driling machines. Jacobs® chucks were designed for heavy- and medium-duty applications using portable, bench, or floor-mounted power tools.

Stainless Steel—Designed for applications requiring chemical corrosion resistance and/or where there is a potential for hazardous sparking. 1-pc. sleeve design eliminates cracks between drilling teeth. For use with portable or stationary machine tools.

Capacity Max.	Capacity Min.	Mounting Size	Key No.	LLAMBRICH USA Item No.	JACOBS Item No.
Ball Bearing					
0.250"	0.040"	2JT	K30	4LHK6	—
	0.040"	2SJT	K30	—	3L872
0.375"	0.040"	2JT	K32	4LHK7	3L874
0.500"	0.040"	3JT	K3	4LHK8	3L876
0.625"	0.125"	3JT	K4	4LHK9	3L878
0.750"	0.125"	4JT	K4	4LHL1	3L880
1.000"	0.380"	5JT	K5	4LHL2	—
Plain Bearing					
Medium-Duty					
0.156"	0.0135"	5/16-24	K0	4LHP1	3M245
0.250"	0.040"	3/8-24	K1	4LHP2	3M304
	0.040"	1JT	K1	4LHL8	3M301
0.375"	0.040"	3/8-24	K30	—	3L964
	0.040"	3/8-24	K2	4LHP3	3M308
	0.040"	3/8-24	K34	4LHP4	—
	0.040"	1/2-20	K30	4LHP5	3L970
	0.040"	1JT	K30	4LHN1	—
	0.040"	2JT	K2	4LHL9	3M306
	0.040"	2JT	K30	4LHN2	—
0.500"	0.080"	3/8-24	K32	4LHP7	3M400
	0.080"	1/2-20	K32	4LHP6	3M453
	0.080"	5/8-16	K32	4LHP8	3M502
	0.080"	33JT	K32	4LHN3	3M396
Heavy-Duty					
0.250"	0.040"	3/8-24	K7	4LHN4	3M344
0.375"	0.040"	1/2-20	K32	—	3P036
0.500"	0.040"	2JT	K3	4LHL4	3L852
	0.040"	6JT	K3	4LHL5	—
	0.040"	33JT	K3	4LHL6	3L854
	0.040"	33JT	K3C	—	3L856
0.625"	0.125"	5/8-16	K3	4LHN6	3M341
	0.125"	3JT	K3	4LHL3	3M312
	0.156"	1/2-20	K3	4LHN7	3L862
0.800"	0.188"	5/8-16	K4	4LHN9	3M526
	0.188"	3/4-16	K4	—	3M528
	0.188"	3JT	K4	4LHL7	—
Stainless Steel					
0.156"	0.028"	0JT	K0M	—	2DZH9
	0.028"	5/16-24	K0M	—	2DZJ1
0.250"	0.028"	5/16-24	K1M	—	2DZJ3
	0.028"	3/8-24	K1M	—	2DZJ4
	0.028"	1JT	K1M	—	2DZJ2



Medium-Duty
No. 2YCR8



High Torque
No. 4LHF5



High Torque
w/Shank
No. 2YCP3



High Precision
No. 4LHH6

LLAMBRICH USA Jacobs CHUCK

Keyless Chucks

Designed for high accuracy applications on conventional or CNC equipment.

Medium-Duty—Self-tightening feature automatically increases gripping force proportional to increased torque, preventing tool shank slippage in clockwise rotation. Automatic fitting eases quick tool changes.

High Torque—In addition to the features listed for Medium-Duty Chucks, these models have milled wrench flats and spanner, allowing for supplementary gripping torque. Light tightening increases gripping torque up to 3 times over hand tightening. Right-hand rotation and instant spindle stop make chucks resistant to tool loosening on high-speed machines.

High Torque With Shank—Integrated design keeps arbor and drill chuck together. Compact design minimizes accumulated run-out. Precision tested and certified to 0.0016" (0.04 mm) T.I.R. maximum at maximum capacity. For right-hand rotation applications only.

High Precision—Self-tightening feature automatically increases gripping force proportional to increased torque, preventing tool shank slippage. Automatic fitting eases fast tool changes. Precision tested and certified to 0.0016" (0.04 mm) T.I.R. maximum at maximum capacity.

Capacity Max.	Capacity Min.	Mounting Size	LLAMBRICH USA Item No.	JACOBS Item No.
Medium Duty				
0.315"	0"	1JT	4LHD8	—
	0"	2JT	4LHD9	—
	0.031"	3/8-24	4LHD7	—
0.394"	0"	1/2-20	4LHE2	—
	0"	2JT	4LHE3	—
	0.031"	3/8-24	4LHE1	—
0.512"	0.039"	3/8-24	4LHE4	2YCR6
	0.039"	1/2-20	4LHE5	2YCR7
	0.039"	2JT	4LHE7	2YCR9
	0.039"	6JT	4LHE8	2YCT1
	0.039"	33JT	—	2YCR8
0.625"	0.125"	33JT	4LHE6	—
0.630"	0.039"	1/2-20	4LHE9	—
	0.118"	5/8-16	4LHF1	—
	0.118"	6JT	4LHF2	—
0.787"	0.197"	3JT	4LHF3	—
High Torque				
0.255"	0"	1JT	4LHG2	2YCN3
0.315"	0"	2JS	4LHF4	—
0.394"	0"	2JT	4LHG1	2YCK3
	0"	33JT	4LHF9	—
0.512"	0.039"	2JT	4LHF5	2YCJ7
	0.039"	6JT	4LHF7	2YCJ9
	0.039"	33JT	4LHF6	2YCJ8
0.630"	0.118"	6JT	4LHF8	2YCK1
High Torque w/Intergrated Shank				
0.315"	0"	2MT	4LHG3	—
0.394"	0"	2MT	4LHG4	2YCN8
0.512"	0.039"	5/8-16	4LHG9	—
	0.039"	2MT	4LHG5	2YCN9
	0.039"	3MT	4LHG6	2YCP1
	0.039"	4MT	4LHG7	2YCP2
	0.039"	R8	4LHG8	2YCP3
0.630"	0.118"	2MT	4LHH1	—
	0.118"	3MT	4LHH2	2YCP6
	0.118"	4MT	4LHH3	2YCP7
	0.118"	R8	4LHH4	2YCP8
High Precision				
0.118"	0"	0JT	4LHH6	—
	0"	5/16-24	4LHH8	—
	0"	1JT	4LHH7	—
0.255"	0.012"	1JT	4LHH5	2YCN2
0.315"	0.012"	2JS	4LHH9	2YCT7
0.394"	0.020"	2JT	—	3P040
	0.020"	33JT	4LHJ1	3P042
0.512"	0.039"	2JT	4LHJ3	2YCU2
	0.039"	6JT	4LHJ5	2YCU3
	0.039"	33JT	4LHJ4	—
0.630"	0.118"	6JT	4LHJ6	2YCU4

Jacobs CHUCK

Arbors

Arbors adapt Morse taper to Jacobs® taper; Morse taper to threaded shank; and Bridgeport taper. Precision CNC-machined and ground for high-accuracy performance and close-tolerance fit. Wedge sets are used to remove taper mount chucks from arbors. Also remove Jacobs® tapers Nos. 4 and 5; stack Nos. 3 and 6 wedge sets together.



Morse to Jacobs® No. 3N098



Morse to Threaded Shank No. 3N999



Bridgeport Taper No. 3N448



Wedge Set No. 3L844

Spindle End	Chuck End	AO No.	Item No.
Morse to Jacobs® Taper			
2MT	2JT	AO202	**3N054**
2MT	3JT	AO203	**3N056**
2MT	4JT	AO204	**3N063**
2MT	6JT	AO206	**3N065**
2MT	33JT	AO233	**3N092**
3MT	2JT	AO302	**3N096**
3MT	3JT	AO303	**3N098**
3MT	4JT	AO304	**3N100**
3MT	5JT	AO305	**3N163**
3MT	6JT	AO306	**3N165**
3MT	33JT	AO333	**3N167**
4MT	3JT	AO403	**3N209**
4MT	4JT	AO404	**3N211**
Morse to Threaded Shank			
2MT	⅜"-24	AO261	**3N999**
2MT	½"-20	AO264	**3P002**
Bridgeport Tapers			
0.490"	2JT	AO802	**3N448**
0.750"	3JT	AO803	**3N457**
0.620"	6JT	AO806	**3N459**
Wedge Sets (Pair)			
Used on 1JT			**3L844**
Used on 2JT			**3L846**
Used on 3JT			**3L848**
Used on 6JT			**3L850**

Jacobs CHUCK

Chuck Keys

Handles are constructed of soft steel to reduce fracture risk under excessive loads. Nickel thumb grip handles offer increased leverage and user comfort. Spring-loaded, self-ejecting models ensure key disengagement after tightening.



T-Handle No. 4YP17



Thumb Handle No. 4YP25

Chuck Key Size	Pilot Size (in.)	Item No.
Standard T-Handle		
K0	⅛	**3L982**
K1	5/32	**3L984**
K5	7/16	**3L992**
KK	9/32	**4YP18**
KG1	¼	**4YP17**
Standard Thumb Handle		
K2	¼	**4YP25**
K3	5/16	**3L986**
K3C	5/16	**3L988**
K4	⅜	**3L990**
K7	7/32	**3L994**
K30	15/64	**3L996**
K32	¼	**3L998**
Self-Ejecting		
S-K3C	5/16	**3L868**
S-KK	9/32	**3L980**



NSM Tapping Heads No. 2ZCG3



RX Series Tapping Head No. 2ZCJ9



Arbor No. 2ZAX7

TAPMATIC

Tapping Heads, Torque Bars, and Arbors

NSM Series—Tension/compression tap holders are for NC machining and turning centers.

Rx Series—For increased production in manual tapping applications.

Torque Bars—Mount securely to prevent tapping attachment's stop arm from rotating. Table-mounted bars mount to T-slots of table. Quill-mounted bars clamp around the quill of the machine.

Cap. in 1010 Mild Steel	Mount	Max. RPM	Mfr. Model	Item No.	
NSM Series Non-Reversing Tapping Heads					
#0-1/4"	⅝" SS	—	35876	**2ZCG3**	
#6-1/2"	¾" SS	—	35881	**2ZCG5**	
#10-3/4"	1" SS	—	35886	**2ZCG7**	
½"-1-1/8"	1½" SS	—	35893	**2ZCG9**	
Rx Series Reversing Tapping Heads					
#0-1/4"	#6 JT	2000	13006	**2ZAW6**	
	#33 JT	2000	13033	**2ZCK2**	
	5/16-24	2000	13031	**2ZCJ9**	
	⅜-24	2000	13037	**2ZCK4**	
	½-20	2000	13050	**2ZCK6**	
	⅝-16	2000	13062	**2ZCK8**	*
#6-1/2"	#6 JT	1500	15006	**2ZCL1**	
	#33 JT	1500	15033	**2ZCL3**	
	½-20	1500	15050	**2ZCL5**	
	⅝-16	1500	15062	**2ZCL7**	*
	¾-16	1500	15075	**2ZCL9**	*
#10-3/4"-16	#3 JT	1200	17003	**2ZCN2**	
	⅝-16	1200	17062	**2ZCN4**	*
	¾-16	1200	17075	**2ZCN6**	*
	⅞-20	1200	17087	**2ZCN8**	

Description	Capacity	Dia.	Mfr. Model	Item No.
Torque Bars for Rx Series				
Table-Mount	¾ Tap	—	29097	**2ZAX1**
	1¾ Tap	—	29096	**2ZAW8**
Quill-Mount	½	1½ to 2⅜"	29099	**2ZAX3**
	¾	2⅜ to 4½"	290991	**2ZAX5**

Type	Jacobs Taper	Shank Dia.	Thread Size (in.)	Overall Length (in.)	Mfr. Model	Item No.
Arbors for Rx Series						
Straight Shank	—	1"	⅞-20	3⅞	20087	**2ZAX7**
	—	½"	⅜-24	1¾	25037	**2ZAY8**
	#33	½"	—	3⅝	25033	**2ZAY6**
Morse #2	#33	—	—	4¼	20233	**2ZAX9**
Morse #3	#33	—	—	4½	20333	**2ZAY2**
R8 Bridgeport	#33	—	—	5¼	20833	**2ZAY4**

** For Burgmaster machines.*



Drill Sleeve No. 3L892



Extension Socket No. 3L930



Hand Drift Tool No. 2XUU6

Jacobs CHUCK Dayton

Drill Sleeves and Extension Sockets

Morse Taper Drill Sleeves—Adapt smaller Morse taper shank tools to larger machine spindles.
- Archer Series 600

Morse Taper Extension Sockets—Extend tool lengths and application distances while adapting for increases or decreases in applied tool Morse taper sizes.
- Archer Series 800

Hand Drift Tool—Removes taper shank tools from machinery spindles, sleeves, and extension sockets.

Outside Morse Taper	Inside Morse Taper	Overall Length (in.)	Extension Length (in.)	Dia. (in.)	Brand	Item No.
Drill Sleeves, Archer Series 600						
2	1	3.62	—	—	Jacobs	**3L892**
3	1	3.88	—	—	Jacobs	**3L896**
4	3	5.50	—	—	Jacobs	**3L898**
5	4	6.69	—	—	Jacobs	**3L904**
Extension Sockets, Archer Series 800						
2	2	6.89	3.58	1.18	Jacobs	**3L918**
	3	7.72	4.41	1.42	Jacobs	**3L920**
4	3	9.45	4.41	1.42	Jacobs	**3L930**
	4	10.43	5.39	1.89	Jacobs	**3L932**
	5	11.81	6.77	2.48	Jacobs	**3L934**
Hand Drift Tool						
15" Long, Fits #2, #3, #4, #5					Dayton	**2XUU6**


Plain


Serrated End


Tapped End


Nuzzler Edge


Clamp Support

TE-CO

Clamps

- Black oxide finish

PLAIN
Tapered nose allows clamping in tight spaces.

SERRATED END
Serrated teeth engage into teeth of step blocks for clamping in machining operations.

TAPPED END
For single-point clamping. Tapped hole in end for supporting stud.

NUZZLER EDGE
Adjustable, double-action nose exerts clamping pressure downward and inward, and has serrations for better gripping of non- or semi-finished workpieces. Low grip style provides greater machining clearance.

CLAMP SUPPORT
Includes washer, spring, and shaft collar. Helps prevent clamp from falling when attached to clamp stud.

Width	Length	Thickness	Slot Size (in.)	Item No.
Plain				
1"	2½"	½"	5⁄16 and 3⁄8	2YGU7
1⅛"	2½"	½"	½	2YGV1
1¼"	2½"	5⁄8"	5⁄8	2YGV4
1½"	4"	¾"	5⁄8	2YGV5
	6"	1"	¾	2YGV8
1¾"	8"	1⅛"	¾	2YGV9
2"	6"	1¼"	⅞ and 1	2YGW1
	8"	1⅜"	⅞ and 1	2YGW2
	10"	1½"	⅞ and 1	2YGW3
Serrated End				
1"	2½"	½"	¼, 5⁄16, 3⁄8	2YGY5
	4"	5⁄8"	¼, 5⁄16, 3⁄8	2YGY6
1⅛"	2½"	½"	½	2YGY8
1¼"	4"	¾"	½	2YGY9
	6"	⅞"	½	2YGZ1
1½"	6"	⅞"	5⁄8	2YGZ4
	6"	1"	¾	2YGZ6
1¾"	8"	1⅛"	¾	2YGZ7
2"	6"	1¼"	⅞, 1	2YGZ8
	8"	1⅜"	⅞, 1	2YGZ9
	10"	1½"	⅞, 1	2YHA1
Tapped End				
5⁄8"	'2"	3⁄8"	¼	2YGW4
1"	3¼"	½"	5⁄16	2YGW7
	3¾"	½"	5⁄16	2YGW6
	4"	½"	5⁄16	2YGW8
1¼"	4"	5⁄8"	3⁄8	2YGX1
	4½"	5⁄8"	½	2YGX4
	5"	5⁄8"	3⁄8	2YGX2
	5"	5⁄8"	½	2YGX5
1½"	4½"	¾"	5⁄8	2YGX7
	5"	¾"	5⁄8	2YGX8
	5½"	¾"	5⁄8	2YGX9
	6"	¾"	5⁄8	2YGY1
1¾"	7"	1"	¾	2YGY3
	8"	1"	¾	2YGY4

Width	Length	Thickness	Slot Size (in.)	STANDARD GRIP Item No.	LOW GRIP Item No.
Nuzzler Edge					
1"	1⅞"	5⁄8"	5⁄16	2YGT5	2YGT4
1¼"	2 5⁄16"	5⁄8"	3⁄8	2YGT7	2YGT6
1½"	3 5⁄16"	¾"	½	2YGT9	2YGT8
	3⅞"	⅞"	½	2YGU2	2YGU1
	5 3⁄16"	¾"	½	2YGU4	2YGU3
	5 3⁄16"	⅞"	½	2YGU6	2YGU5

For Use With	Item No.
Clamp Support	
½" Clamping Stud	2YHA5


51-Pc. Set
No. 2YGL6


54-Pc. Set
No. 2YGP5


66-Pc. Set
No. 19T325

TE-CO WESTWARD

Clamping Kits

- For replacement parts, see Grainger.com®

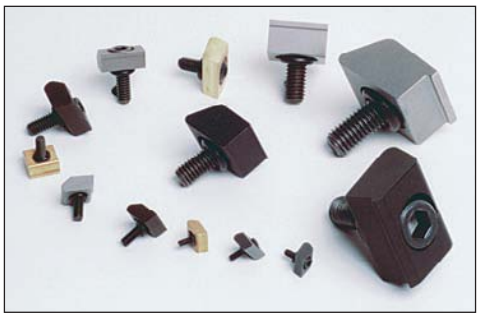
51-PC. SETS
Include 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 4 flange nuts, 4 T-slot nuts, 1 T-slot cleaner, 24 studs, wooden base, and metal tray.

54-PC. SETS
Include 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 6 flange nuts, 6 T-slot nuts, 1 T-slot cleaner, 24 studs, and machine-mounted holder. No. 2YGP8 comes in plastic case and does not include cleaner.

66-PC. SET
Includes 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 6 flange nuts, four 9⁄16" T-slot nuts, four 5⁄8" T-slot nuts, 24 studs (4 each: 3", 4", 5", 6", 7" and 8" length), 1 T-slot cleaner, two 1¾" wide U-clamp sets (consisting of 2 each 5" studs, flange nuts, ball joint U-clamps, and 9⁄16" T-slot nuts), and storage rack.

T-Slots	For Use With	Brand	Item No.	
51-Pc. Sets				
½"	3⁄8-16 Stud Size	Te-Co	2YGL6	
9⁄16"	½-13 Stud Size	Te-Co	2YGL7	
5⁄8"	½-13 Stud Size	Te-Co	2YGL8	*
	½-13 Stud Size	Te-Co	2YGN3	*†
1 1⁄16"	½-13 Stud Size	Te-Co	2YGL9	
	5⁄8-11 Stud Size	Te-Co	2YGN1	
	5⁄8-11 Stud Size	Te-Co	2YGN4	†
¾"	5⁄8-11 Stud Size	Te-Co	2YGN2	
1 3⁄16"	¾-10 Stud Size	Te-Co	2YGN5	
⅞"	¾-10 Stud Size	Te-Co	2YGN6	
54-Pc. Sets				
3⁄8"	5⁄16-18 Stud Size	Westward	19T326	
7⁄16"	3⁄8-16 Stud Size	Westward	19T327	
½"	3⁄8-16 Stud Size	Te-Co	2YGP5	
	3⁄8-16 Stud Size	Westward	19T328	
9⁄16"	½-13 Stud Size	Te-Co	2YGP6	
	3⁄8-16 Stud Size	Westward	19T329	
5⁄8"	½-13 Stud Size	Te-Co	2YGP7	*
	½-13 Stud Size, Studs are Low Carbon Steel	Te-Co	2YGP8	*
	½-13 Stud Size	Westward	19T332	
1 1⁄16"	½-13 Stud Size	Te-Co	2YGP9	
	5⁄8-11 Stud Size	Te-Co	2YGR1	
	½-13 Stud Size	Westward	19T333	
¾"	5⁄8-11 Stud Size	Te-Co	2YGR2	
	5⁄8-11 Stud Size	Westward	19T336	
1 3⁄16"	5⁄8-11 Stud Size	Westward	19T335	
12mm	M10x1.5 Stud Size	Westward	19T330	
16mm	M12x1.75 Stud Size	Westward	19T331	
20mm	M16x2.0 Stud Size	Westward	19T338	
66-Pc. Set				
9⁄16 and 5⁄8"	½-13 Stud Size	Westward	19T325	

**** Use on Bridgeport machines. † 1½" thick step block.***



MI-TEE-BITE PRODUCTS LLC

Pitbull® Low-Profile Clamps

Workholding clamps have a low gripping profile that generates high clamping forces compared to other compact clamps. Use Blunt Edge models for general purpose applications. Brass Blunt Edge models provide a firm hold without marring. Knife Edge models are your best choice for aggressive stock removal.

Clamp Style	Holding Force	Thread Size	Thread Length	Dia.	Overall Depth/Width	Item No.
SAE						
Blunt Edge	650 lb.	4-40	3/8"	7/64"	3/8"	34CV66
	1500 lb.	8-32	1/2"	11/64"	1/2"	34CV69
	3600 lb.	1/4-20	3/4"	1/4"	3/4"	34CV72
	6000 lb.	3/8-16	1"	3/8"	1"	34CV75
	12000 lb.	1/2-13	1 1/4"	1/2"	1 1/2"	34CV77
Brass Blunt Edge	200 lb.	4-40	3/8"	7/64"	3/8"	34CV67
	400 lb.	8-32	1/2"	11/64"	1/2"	34CV70
Knife Edge	1500 lb.	8-32	1/2"	11/64"	1/2"	34CV68
	3600 lb.	1/4-20	3/4"	1/4"	3/4"	34CV71
	6000 lb.	3/8-16	1"	3/8"	1"	34CV74
	12000 lb.	1/2-13	1 1/4"	1/2"	1 1/2"	34CV76
Metric						
Blunt Edge	6600 N	M4	12mm	4mm	12.70mm	34CV82
	16000 N	M6	16mm	6mm	19.05mm	34CV85
Brass Blunt Edge	4200 N	M6	16mm	6mm	19.05mm	34CV86
Knife Edge	2800 N	M2.5	8mm	2.50mm	9.52mm	34CV78



No. 2YJJ6

TE-CO

T-Slot Nuts

Durable, case-hardened, black oxide finish. Last thread is incomplete to prevent stud from turning through the bottom of the nut. Undersized to fit machine table slot.

Thread Size (in.)	Table Slot Size	Base Length (in.)	Item No.
1/4-20	5/16	9/16	2YJJ6
5/16-18	3/8	7/8	2YJJ7
3/8-16	7/16	7/8	2YJK7
	1/2	7/8	2YJK8
	9/16	7/8	2YJK9
1/2-13	9/16	1 1/8	2YJL1
	5/8	1 1/8	2YJL2
	11/16	1 1/4	2YJL3
5/8-11	11/16	1 1/4	2YJL4
	3/4	1 1/4	2YJL5
	13/16	1 1/2	2YJL6
3/4-10	13/16	1 1/2	2YJL7
	7/8	1 1/2	2YJJ8
	1	1 3/4	2YJJ9
1-8	1 1/16	2	2YJK1

TE-CO

Washers

Flat washers prevent marring to object by distributing load that nut applies to clamp or workpiece.

Hardened Steel



Outside Dia.	Inside Dia.	HARDENED STEEL Thickness	HARDENED STEEL Item No.	HEAVY DUTY STEEL Thickness	HEAVY DUTY STEEL Item No.	STAINLESS STEEL Thickness	STAINLESS STEEL Item No.
5/16"	1/8"	5/64	2YJF5	—	—	5/64	2YJJ2
3/8"	5/32"	5/64	2YJF6	—	—	5/64	2YJJ3
7/16"	3/16"	5/64	2YJF7	—	—	5/64	2YJJ4
1/2"	13/64"	3/32"	2YJE2	—	—	3/32"	2YJG8
5/8"	9/32"	1/8"	2YJE3	3/16"	2YJF8	1/8"	2YJG9
3/4"	11/32"	1/8"	2YJE4	3/16"	2YJF9	1/8"	2YJH1
7/8"	13/32"	1/8"	2YJE5	3/16"	2YJG1	1/8"	2YJH2
1"	15/32"	1/8"	2YJE6	3/16"	2YJG2	1/8"	2YJH3
1 1/8"	17/32"	1/8"	2YJE7	3/16"	2YJG3	1/8"	2YJH4
1 3/8"	21/32"	1/8"	2YJE8	3/16"	2YJG4	1/8"	2YJH5
1 5/8"	25/32"	5/32	2YJE9	1/4"	2YJG5	5/32	2YJH6
1 3/4"	29/32"	5/32	2YJF1	1/4"	2YJG6	5/32	2YJH7
2"	1"	3/16"	2YJF2	—	—	—	—
	1.03"	—	—	9/32"	2YJG7	3/16"	2YJH8
2 1/4"	1 5/32"	7/32"	2YJF3	—	—	—	—
	1.15"	—	—	—	—	7/32"	2YJH9
2 1/2"	1.3"	9/32"	2YJF4	—	—	9/32"	2YJJ1



Swing Bolt



Eye Bolt

TE-CO

Swing Bolts and Eyebolts

Steel bolts with black oxide finish. Reamed hole allows for smooth bearing surface. Use as a stationary hinge-pivot point, with a shoulder for positive stop location.

Thread Size (in.)	Ream (in.)	Length from Ream Center (in.)	Item No.
Swing Bolts			
1/4-20	1/4	1 1/2	2YJP1
	1/4	2 1/2	2YJK2
	1/4	2 5/8	2YJK3
5/16-18	5/16	2	2YJK4
3/8-16	3/8	2 1/2	2YJP2
	3/8	3 1/2	2YJK5
1/2-13	1/2	3 1/8	2YJP3
	1/2	4 1/8	2YJP4
3/4-10	3/4	4 1/2	2YJK6

Thread Size	Eye Inside Dia.	Length from Ream Center	Item No.
Eye Bolts			
1/4"-20	3/16"	2"	2YJL8
	3/16"	3"	2YJL9
5/16"-18	1/4"	3"	2YJN1
	5/16"	3"	2YJN2
3/8"-16	3/8"	3"	2YJN3
	3/8"	3 3/4"	2YJN4
	3/8"	5"	2YJN5
1/2"-13	3/8"	3 3/4"	2YJN6
	3/8"	5"	2YJN7
5/8"-11	5/8"	4 1/2"	2YJN8
	5/8"	6"	2YJN9
3/4"-10	3/4"	4 1/2"	2YJJ5

TE-CO

Step Blocks

Work with serrated end clamps to provide clamp support. Larger sizes have chamfered holes to tolerate more shock.

Size	Range	Item No.
1" Thick	3/4 to 1 5/8"	2YGR3
	1 1/8 to 2 1/2"	2YGR4
	2 1/2 to 6"	2YGR5
1 1/2" Thick	1 3/4 to 4"	2YGR6
	2 1/2 to 6"	2YGR7
	3 1/2 to 9"	2YGR8
2" Thick	1 3/4 to 4"	2YGR9
	2 1/2 to 6"	2YGT1
	3 1/2 to 9"	2YGT2



No. 2YGR3



Flange Nut



Swivel Flange Nut



Spherical Flange Nut Assembly

TE-CO

Flange Nuts

Flange—Case-hardened steel with black oxide finish, or stainless steel.

Swivel Flange—Head rotates while washer remains stationary. Hold rigidly on contact, without marring workpiece.

Spherical Flange—Design compensates for slight misalignment of clamp to workpiece to provide proper clamping force. Assemblies include flange nut and spherical washer.

Thread Size	Hex Width (in.)	Flange Nuts STEEL Height (in.)	Flange Nuts STEEL Item No.	Flange Nuts STAINLESS STEEL Height (in.)	Flange Nuts STAINLESS STEEL Item No.	Swivel Flange Nuts STEEL Height (in.)	Swivel Flange Nuts STEEL Item No.
1/4-20	1/2	5/16	2YHE1	5/16	2YJC1	3/8	2YHH2
5/16-18	9/16	3/8	2YHE2	3/8	2YJC2	—	—
3/8-16	11/16	1/2	2YHE3	1/2	2YJC3	17/32	2YHH4
1/2-13	7/8	11/16	2YHE4	11/16	2YJC4	23/32	2YHH5
5/8-11	1 1/16	13/16	2YHE5	13/16	2YJC5	29/32	2YHH6
3/4-10	1 1/4	1	2YHE6	1	2YJC6	1 1/64	2YHH7
1-8	1 5/8	1 1/4	2YHE8	—	—	1 15/64	2YHH8

Thread Size	Hex Size (in.)	Height (in.)	STEEL Item No.	STAINLESS STEEL Item No.
Spherical Flange Nut Assemblies				
3/8-16	11/16	0.66	2YHF9	2YHG7
1/2-13	7/8	0.879	2YHG1	2YHG8
5/8-11	1 1/16	1043	2YHG2	2YHG9
3/4-10	1 1/4	1.269	2YHG3	2YHH1
1-8	1 5/8	1.544	2YHG4	—



Hand Knob



Knurled Knob

Dog Point Screws

Dog point prevents damage to end threads.

Hand Knob—Use when hand tightening is necessary for holding or clamping. 4-point aluminum knob. Steel stem with black oxide finish.

Knurled Head—Use for light clamping and holding. Knurled head allows better grip. Head and stem are steel with black oxide finish.

Thread Size	Screw Length	Overall Length	Item No.
Hand Knob			
¼-20	1.50"	2.25"	3LCE4
	2.00"	2.75"	3LCE5
	2.50"	3.25"	3LCE6
5/16-18	2.00"	2.875"	3LCE7
	2.50"	3.125"	3LCE8
3/8-16	2.0625"	3.0625"	3LCE9
	2.5625"	3.5625"	3LCF1
	3.0625"	4.0625"	3LCF2
½-13	2.5625"	4.0625"	3LCF3
	3.0625"	4.5625"	3LCF4
	3.5625"	5.0625"	3LCF5

Thread Size	Screw Length	Overall Length	Item No.
Knurled Head			
10-24	1.00"	1.25"	3LCF6
10-32	1.50"	1.75"	3LCF9
¼-20	2.00"	2.3125"	3LCG1
	2.50"	2.8125"	3LCG2
	1.50"	1.8125"	3LCG3
5/16-18	1.50"	1.875"	3LCG4
	2.00"	2.375"	3LCG5
	2.50"	2.875"	3LCG6
3/8-16	2.00"	2.4375"	3LCG7
	2.50"	2.9375"	3LCG8
	3.00"	3.4375"	3LCG9
½-13	3.00"	3.4375"	3LCH1
	3.50"	3.9375"	3LCH2



Fixture Clamps

Cam-action workholding clamps provide fast, strong clamping, and have a low profile design. Simple, 2-component design helps keep maintenance costs low, and the small size allows more parts per load.

Note: Clockwise rotation is recommended. Workpiece stop should be on the right of clamp.

Material	Holding Force	Thread Size	Dia.	Overall Height	Overall Width	Item No.	Pkg. Qty.
SAE							
Brass/Steel	350 lb.	10-32	3/16"	½"	½"	34CU45	10
	800 lb.	¼-20	¼"	21/32"	5/8"	34CU46	10
	800 lb.	5/16-18	5/16"	21/32"	13/16"	34CU48	12
	2000 lb.	3/8-16	3/8"	61/64"	13/16"	34CU49	10
	4000 lb.	½-13	½"	1 17/64"	1"	34CU50	8
Metric							
Brass/Steel	910 N	M4	4mm	12.40mm	7.93mm	34CU52	10
	3558 N	M8	8mm	19.55mm	20.61mm	34CU54	12



Aluminum Disc



Novo Grip No Handle



Aluminum 2-Spoke



Novo Grip Revolving Handle

Handwheels

Novo Grip gray thermoplastic wheels have steel insert and matte black finish. Aluminum wheels are lightweight with a polished finish.

Dia.	Bore	NO HANDLE Item No.	REVOLVING HANDLE Item No.	FOLD AWAY HANDLE Item No.
Novo Grip				
3.15"	0.375"	3DDJ6	3DDK9	3DDN3
3.94"	0.375"	3DDJ8	3DDL2	3DDN5
	0.50"	3DDK1	3DDL4	3DDN7
4.92"	0.50"	3DDK3	3DDL6	3DDN8
6.3"	0.50"	3DDK5	3DDL8	3DDP1
	0.625"	3DDK7	3DDN1	3DDP3

Dia.	Bore	NO HANDLE Item No.	FIXED HANDLE Item No.	REVOLVING HANDLE Item No.
Aluminum Disc				
3.15"	0.375"	3GJY7	3GJZ5	3GKA3
3.94"	0.50"	3GJY8	3GJZ6	3GKA4
4.92"	0.50"	3GJY9	3GJZ7	3GKA5
5.51"	0.625"	3GJZ1	3GJZ8	3GKA6
6.3"	0.625"	3GJZ2	3GJZ9	3GKA7
7.87"	0.75"	3GJZ3	3GKA1	3GKA8
9.87"	0.875"	3GJZ4	3GKA2	3GKA9
Aluminum 2-Spoke				
3.15"	0.375"	3GKC1	3GKC7	3GKD4
3.94"	0.50"	3GKC2	3GKC8	3GKD5
4.92"	0.50"	3GKC3	3GKC9	3GKD6
6.3"	0.625"	3GKC4	3GKD1	3GKD7
7.87"	0.75"	3GKC5	3GKD2	3GKD8
9.84"	0.875"	3GKC6	3GKD3	3GKD9



No. 467W42



No. 467W84

Dovetail Fixtures and Cutters

RAPTOR WORKHOLDING PRODUCTS

▪ For accessories, see Grainger.com®

Made to hold part on 4- and 5-axis CNC machines. Fixtures provide rigid clamping while exposing 5 faces of the workpiece. Spring-loaded clamps require a small amount of material to hold the workpiece. Prepare all parts with a single dovetail and utilize the same fixture for every part.

Max. Workpiece Weight	Max. Workpiece Size	No. of Clamps	Dovetail Height	Dovetail Width	Fixture Height	Max. Workpiece Size	Bolt Circle Dia.	Mfr. Model	Item No.
Dovetail Fixture									
17-4 Stainless Steel									
6 lb.	3¼" x 3¼"	1	0.125"	0.500"	2⅛"	3¼" x 3¼"	—	RWP-017SS	467W67
7 lb.	3¾" x 3¾"	1	0.125"	0.750"	2"	3¾" x 3¾"	—	RWP-011SS	467W57
	3¾" x 3¾"	1	0.125"	0.750"	2"	3¾" x 3¾"	—	RWP-012SS	467W58
	3¾" x 3¾"	1	0.125"	0.750"	2⅛"	3¾" x 3¾"	—	RWP-007SS	467W56
12 lb.	5" x 5"	2	0.125"	0.750"	1¼"	5" x 5"	—	RWP-038SS	467W65
25 lb.	6⅜" x 6⅜"	2	0.125"	0.750"	3"	6⅜" x 6⅜"	—	RWP-002SS	467W54
30 lb.	—	2	0.125"	1.500"	2"	—	—	RWP-036SS	467W51
	6¾" x 6¾"	2	0.125"	1.500"	2"	6¾" x 6¾"	—	RWP-013SS	467W48
	6¾" x 6¾"	2	0.125"	1.500"	3"	6¾" x 6¾"	—	RWP-001SS	467W45
40 lb.	7½" x 7½"	3	0.125"	0.750"	2"	7½" x 7½"	—	RWP-034SS	467W64
	7½" x 7½"	3	0.125"	0.750"	3"	7½" x 7½"	—	RWP-030SS	467W63
168 lb.	12" x 12"	2	0.187"	2.250"	3⅞"	12" x 12"	—	RWP-006SS	467W43
225 lb.	8" x 10"	—	0.250"	2.750"		8" x 10"	—	RWP-403SS-12	467W41
Aluminum									
0.284 lb.	1¼" x 1¼"	1	0.078"	0.281"	1 7/16"	1¼" x 1¼"	—	RWP-032SS	467W75
	1¼" x 1¼"	1	0.078"	0.281"	1½"	1¼" x 1¼"	—	RWP-031SS	467W74
2 lb.	2½" x 2½"	1	0.125"	0.500"	1¼"	2½" x 2½"	—	RWP-019SS	467W71
3 lb.	3" x 3"	1	0.125"	0.750"	1½"	3" x 3"	—	RWP-003	467W55
6 lb.	3¼" x 3¼"	1	0.125"	0.500"	2"	3¼" x 3¼"	—	RWP-022SS	467W70
10 lb.	4¾" x 4¾"	2	0.125"	0.500"	3"	4¾" x 4¾"	—	RWP-018	467W68
12 lb.	5" x 5"	2	0.125"	0.500"	3"	5" x 5"	—	RWP-018SS	467W69
12.5 lb.	4" x 4"	1	0.125"	0.750"	1½"	4" x 4"	—	RWP-024	467W61
	8" x 4"	3	0.125"	0.750"	4"	8" x 4"	—	RWP-025	467W62
16 lb.	8½" x 4"	2	0.125"	0.750"	2 13/16"	8½" x 4"	—	RWP-024-2XR	467W79
18 lb.	5 51/64" x 5 51/64"	2	0.125"	0.750"	3"	5 51/64" x 5 51/64"	—	RWP-002	467W53
	5¾" x 5¾"	2	0.125"	0.750"	2"	5¾" x 5¾"	—	RWP-015	467W59
	5¾" x 5¾"	2	0.125"	0.750"	3"	5¾" x 5¾"	—	RWP-023	467W60
20 lb.	6" x 6"	2	0.125"	1.500"	3"	6" x 6"	—	RWP-027	467W50
30 lb.	6¾" x 6¾"	2	0.125"	1.500"	2"	6¾" x 6¾"	3 47/64"	RWP-004	467W46
	6¾" x 6¾"	2	0.125"	1.500"	2"	6¾" x 6¾"	3 51/64"	RWP-013	467W47
	6¾" x 6¾"	2	0.125"	1.500"	3"	6¾" x 6¾"	3 51/64"	RWP-001	467W44
	6¾" x 6¾"	2	0.125"	1.500"	3"	6¾" x 6¾"	4"	RWP-026	467W49
65 lb.	4" x 14"	4	0.125"	0.750"	3"	4" x 14"	—	RWP-405	467W66
80 lb.	8" x 10"	2	0.187"	2.250"	3⅞"	8" x 10"	—	RWP-006	467W42
140 lb.	17" x 12"	6	0.125"	1.500"	3"	17" x 12"	—	RWP-401-11	467W52

For Use With	Item No.
Micro Dovetail Clamp Kit	
Mfr. Model No. RWP-031SS, RWP-032SS	467W93
Mfr. Model No. RWP-008SS, RWP-009SS, RWP-010SS	467W92
Dovetail Clamp Kit	
Mfr. Model No. RWP-019SS	467W89
Mfr. Model No. RWP-017SS, RWP-018, RWP-018SS, RWP-022SS	467W91
Mfr. Model No. RWP-006, RWP-006SS	467W88
Mfr. Model No. RWP-002, RWP-002SS, RWP-003, RWP-003-4X, RWP-007SS, RWP-011SS, RWP-012SS, RWP-015, RWP-023, RWP-024, RWP-025, RWP-024-2XR, RWP-024-3XR, RWP-024-4XR, RWP-405	467W90
Mfr. Model No. RWP-001, RWP-001SS, RWP-004, RWP-013, RWP-013SS, RWP-401-11, RWP-026, RWP-027	467W87

Dia.	For Use With	Item No.
Three Flute Dovetail Cutter		
¾"	Aluminum, Brass, Soft Material Workpieces	467W83
Four Flute Dovetail Cutter		
13/32"	Steel, Titanium, Hard Material Workpieces	467W84
¾"		467W85



DESTACO

Pull-Action Latch Clamps

▪ All clamps are made of steel (except where indicated)

Provide quick closure of covers and molds. Thumb-control lever for single-handed operation. Threaded hook for easy adjustment. Models with release lever prevent accidental opening due to vibration.

Holding Cap. (lb.)	Arm	Adjustable Range	Overall H (in.)	Overall L (in.)	Base Mounting Centers (in.)	Item No.	
Vertical							
500	U Bolt	0-0.50	1.91	3.49	0.50 x 0.88	**3CXF1**	
	U Bolt	0-0.50	1.91	3.49	0.50 x 0.88	**3CXF4**	*
1000	U Bolt	0-0.80	2.37	4.10	0.75 x 1.00	**3CXF2**	
	U Bolt	0-0.80	2.37	4.10	0.75 x 1.00	**3CXF5**	*
2000	U Bolt	0-1.26	3.39	5.77	1.25 x 1.44	**3CXF3**	
	U Bolt	0-1.26	3.39	5.77	1.25 x 1.44	**3CXF6**	*
Horizontal							
200	J Hook	0-0.25	1.43	6.01	0.50 x 1.22	**3CXD9**	
	J Hook	0-0.25	1.43	6.01	0.50 x 1.22	**3CXE7**	*
360	U Bolt	0-0.49	1.19	3.88	0.63 x 0.75	**3CXN9**	
	U Bolt	0-0.49	1.19	3.88	0.63 x 0.75	**3CXE4**	*
375	Closed Loop	—	1.91	8.33	0.75 x 1.25	**3CXD7**	
	J Hook	0-0.43	1.83	8.82	0.75 x 1.37	**3CXP3**	
450	J Hook	0-0.43	1.83	8.82	0.75 x 1.37	**3CXP5**	*
720	U Bolt	0-0.59	1.97	6.07	0.75 x 1.25	**3CXP1**	
	U Bolt	0-0.59	1.97	6.07	0.75 x 1.25	**3CXE5**	*
	U Bolt	0-0.49	2.01	6.07	0.75 x 1.25	**3CXE8**	**
	U Bolt	0-0.59	2.01	6.07	0.75 x 1.25	**3CXF7**	†
750	J Hook	0-0.81	2.58	11.89	1.25 x 1.94	**3CXE1**	
1000	J Hook	0-0.93	2.90	13.45	1.13 x 2.37	**3CXP4**	
1200	Closed Loop	—	2.44	9.49	1.25 x 1.78	**3CXD8**	
2000	U Bolt	0-0.76	2.89	8.20	1.63 x 1.50	**3CXP2**	
	U Bolt	0-0.76	2.89	8.20	1.63 x 1.50	**3CXE6**	*
	U Bolt	0-0.76	2.89	8.20	1.63 x 1.50	**3CXE9**	**
	U Bolt	0-0.76	2.89	8.20	1.63 x 1.50	**3CXF8**	†
4000	U Bolt	0-0.69	4.19	10.19	2.25 x 2.25	**3CXE2**	‡
	U Bolt	0-0.69	4.19	10.19	2.25 x 2.25	**3CXF9**	†‡
7500	U Bolt	0-1.07	3.67	9.65	2.25 x 2.25	**3CXE3**	‡
	U Bolt	0-1.07	3.67	9.65	2.25 x 2.25	**3CXG1**	†‡

** Stainless steel. † With release lever. ** Stainless steel with release lever.*
‡ Latch plate not included.







DESTACO

Squeeze-Action Clamps

▪ All clamps are made of steel (except where indicated)

Use to replace fasteners when permanent clamping is not possible. Forged steel jaws are tapped for adjustable spindles (supplied). Models with release lever offer single-handed opening.

Holding Cap. (lb.)	Spindle	Jaw Width (in.)	Jaw Depth (in.)	Overall L (in.)	Thread Size	Item No.	
200	Flat Cushion Neoprene	1.00	1.08	4.63	M6	**3CXP7**	
350	Hex Head Bolt	1.25	1.77	6.03	M8	**3CXP8**	
700	Swivel	3.00	2.72	8.51	M10	**3CXP9**	†
800	Hex Head Bolt	1.78	1.25	8.28	M12	**3CXP6**	
	Hex Head Bolt	1.78	1.25	8.28	M12	**3CXR3**	*
1200	Swivel Foot Bolt	1.75	2.56	9.15	M10	**3CXR1**	†
	Hex Head Bolt	3.88	2.56	9.15	M10	**3CXR2**	†

** Stainless steel. † With release lever.*





Kipp®

Vertical and Horizontal Toggle Clamps

These clamps feature maintenance-free, high-quality swivel bushings. They allow for a consistent use of force when opening and closing. Optimum stability is achieved through the conical clamping arm with U-profile. Can be used on a variety of fixtures for applications where hold-down action can replace fasteners. Models with safety interlock include an internal bar lock with automatic safety catch.

Verical Handle—Feature 2 to 3 times the holding force with fewer pinch points for safety and durability.

Horizontal Handle—Provide a low profile for applications where minimum vertical height is required.

Holding Cap. (lb.)	Handle	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.
Vertical Handle, Straight Foot							
Steel Body							
139	90°	M5	4.74	2.50	1.21	0.63	**48TN24**
207	90°	M6	6.65	3.41	1.48	0.55	**48TN25**
211	90°	M8	7.89	4.21	1.93	0.83	**48TN27**
315	90°	M12	10.45	6.83	2.75	1.26	**48TN31**
337	90°	M10	9.74	6.02	2.45	1.26	**48TN29**
Steel Body w/Safety Interlock							
207	90°	M6	6.92	3.41	1.48	0.55	**48TN26**
211	90°	M8	8.17	4.21	1.93	0.83	**48TN28**
315	90°	M12	10.67	6.83	2.75	1.26	**48TN32**
337	90°	M10	10.00	6.02	2.45	1.26	**48TN30**
Stainless Steel Body							
139	90°	M5	4.75	2.50	1.22	0.06	**48TN33**
207	90°	M6	6.65	3.41	1.48	0.55	**48TN34**
211	90°	M8	7.89	4.21	1.93	0.83	**48TN36**
Stainless Steel Body w/Safety Interlock							
207	90°	M6	6.92	3.41	1.48	0.55	**48TN35**
211	90°	M8	8.17	4.21	1.93	0.83	**48TN37**
Vertical Handle, Flat Foot							
Steel Body							
139	90°	M5	4.27	2.62	0.75	0.63 x 0.94	**48TN10**
207	90°	M6	6.15	3.44	0.97	0.55 x 1.06	**48TN11**
211	90°	M8	7.25	4.23	1.29	0.83 x 1.26	**48TN13**
315	90°	M12	9.54	6.83	1.84	1.26 x 1.77	**48TN17**
337	90°	M10	8.81	6.02	1.52	1.26 x 1.77	**48TN15**
Steel Body w/Safety Interlock							
207	90°	M6	6.41	3.44	0.97	0.55 x 1.06	**48TN12**
211	90°	M8	7.53	4.23	1.29	0.83 x 1.26	**48TN14**
315	90°	M12	9.81	6.83	1.84	1.26 x 1.77	**48TN18**
337	90°	M10	9.07	6.02	1.52	1.26 x 1.77	**48TN16**
Stainless Steel Body							
139	90°	M5	4.27	2.62	0.75	0.63 x 0.94	**48TN19**
207	90°	M6	6.15	3.44	0.97	0.55 x 1.06	**48TN20**
211	90°	M8	7.25	4.23	1.29	0.83 x 1.26	**48TN22**
Stainless Steel Body w/Safety Interlock							
207	90°	M6	6.41	3.44	0.97	0.55 x 1.06	**48TN21**
211	90°	M8	7.53	4.23	1.29	0.83 x 1.26	**48TN23**
Horizontal Handle, Straight Foot							
Steel Body							
123	180°	M5	2.06	4.95	1.03	0.71	**48TM95**
161	180°	M6	2.95	7.35	1.45	1.02	**48TM96**
186	180°	M8	3.47	8.78	1.83	1.02	**48TM98**
224	180°	M12	5.06	12.39	2.99	1.73	**48TN03**
269	180°	M10	4.50	11.00	2.35	1.63	**48TN01**
Steel Body w/Safety Interlock							
161	180°	M6	2.95	7.61	1.45	1.02	**48TM97**
186	180°	M8	3.47	9.07	1.83	1.02	**48TM99**
224	180°	M12	5.06	12.65	2.99	1.73	**48TN04**
269	180°	M10	4.50	11.26	2.35	1.63	**48TN02**
Stainless Steel Body							
123	180°	M5	2.06	4.95	1.03	1.73	**48TN05**
161	180°	M6	2.95	7.35	1.45	1.02	**48TN06**
186	180°	M8	3.47	8.78	1.83	1.02	**48TN08**
Stainless Steel Body w/Safety Interlock							
161	180°	M6	2.95	7.61	1.45	1.02	**48TN07**
186	180°	M8	3.47	9.07	1.83	1.02	**48TN09**
Horizontal Handle, Flat Foot							
Steel Body							
56	180°	M4	1.15	3.61	0.46	0.63 x 0.63	**48TM79**
123	180°	M5	1.71	4.95	0.68	0.66 x 0.71	**48TM80**
161	180°	M6	2.51	7.35	1	1.02 x 1.10	**48TM81**
186	180°	M8	2.91	8.78	1.27	1.02 x 1.22	**48TM83**
224	180°	M12	4.12	12.39	2.06	1.65 x 1.73	**48TM87**
269	180°	M10	3.73	11.00	1.57	1.63 x 1.69	**48TM85**
Steel Body w/Safety Interlock							
161	180°	M6	2.51	7.61	1	1.02 x 1.10	**48TM82**
186	180°	M8	2.91	9.07	1.27	1.02 x 1.22	**48TM84**
224	180°	M12	4.12	12.65	2.06	1.65 x 1.73	**48TM88**
269	180°	M10	3.73	11.26	1.57	1.63 x 1.69	**48TM86**
Stainless Steel Body							
56	180°	M4	1.15	3.61	0.46	0.63 x 0.63	**48TM89**
123	180°	M5	1.71	4.95	0.68	0.66 x 0.71	**48TM90**
161	180°	M6	2.51	7.35	1	1.02 x 1.10	**48TM91**
186	180°	M8	2.91	8.78	1.27	1.02 x 1.22	**48TM93**
Stainless Steel Body w/Safety Interlock							
161	180°	M6	2.51	7.61	1	1.02 x 1.10	**48TM92**
186	180°	M8	2.91	9.07	1.27	1.02 x 1.22	**48TM94**

Scan. Order. Done.
Details on page A1.









DESTACO

Vertical, Horizontal and Compact Toggle Clamps

Feature corrosion-resistant stainless steel rivets and molded grips for safety. Can be used on a variety of fixtures for applications where hold-down action can replace fasteners. Models with Toggle Lock Plus release lever prevent accidental opening due to vibration.

Vertical Handle—Some models feature 2 to 3 times the holding force with fewer pinch points for safety and durability. Flat cushion neoprene spindle.

Horizontal Handle—Provide a low profile for applications where minimum vertical height is required.

Compact Horizontal Handle—Low-silhouette hold-down clamp features a handle that can be operated from either side or from behind.

Holding Cap. (lb.)	Clamp Arm Opening Angle	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.	
Vertical Handle Hold Down								
Open Arm								
600	75°	M6	4.72	3.29	0.95	0.50 x 1.06	**3CXV4**	
	75°	M6	4.72	4.27	0.95	0.50 x 1.06	**3CXX6**	†
1000	76°	M8	7.17	4.82	1.25	0.75 x 1.25	**3CXV5**	
	76°	M8	7.17	6.60	1.25	0.75 x 1.25	**3CXX7**	†
1400	78°	M10	9.08	6.09	1.70	1.25 x 1.78	**3CXV6**	
	78°	M10	9.08	7.51	1.70	1.25 x 1.78	**3CXX8**	†
U-Shaped Arm								
100	100°	M5	3.08	2.04	0.63	0.63 x 0.94	**3CXV9**	
125	100°	10-32	3.08	2.04	0.63	0.63 x 0.94	**3CXX2**	*‡
200	105°	M6	4.31	2.07	0.93	0.50 x 1.06	**3CXV3**	
	105°	M6	4.31	2.73	0.93	0.50 x 1.06	**3CXW2**	
250	105°	¼ - 20	4.31	2.73	0.93	0.50 x 1.06	**3CXX3**	*‡
375	99°	M8	6.93	3.72	1.25	0.75 x 1.25	**3CXW5**	
	99°	M8	6.93	5.41	1.25	0.75 x 1.25	**3CXW6**	
	99°	M8	6.93	4.58	1.25	0.75 x 1.25	**3CXX9**	†
450	99°	M8	5.63	4.44	1.25	0.75 x 1.25	**3CXX4**	*‡
500	99°	Solid	6.93	3.79	1.25	0.75 x 1.25	**3CXW4**	
600	103°	M10	8.19	5.54	1.67	1.26 x 1.77	**3CXW8**	
	103°	M10	8.19	6.70	1.67	1.25 x 1.78	**3CXY1**	†
750	103°	Solid	8.19	5.51	1.67	1.25 x 1.77	**3CXW7**	
	103°	⅜ - 16	8.19	5.51	1.67	1.25 x 1.77	**3CXX5**	*‡
1000	120°	M12	8.86	6.84	1.98	1.26 x 1.77	**3CXW9**	
1200	140°	M16	11.97	8.87	3.08	2.00 x 2.75	**3CXX1**	
Horizontal Handle Hold Down								
U-Shaped Arm								
60	94°	M4	0.67	2.85	0.36	0.62 x 0.62	**3CXA3**	
	90°	M4	0.67	2.71	0.30	0.62 X 0.62	**3CXA4**	
75	90°	8-32	0.67	2.71	0.30	0.62 x 0.62	**3CXC3**	*
100	90°	8-32	1.06	2.74	0.44	0.63 x 0.63	**3CXC4**	*
150	90°	M5	1.39	4.05	0.74	0.53 x 0.75	**3CXA5**	
	90°	10-32	1.39	4.05	0.74	0.53 x 0.75	**3CXC5**	*
200	87°	M6	1.53	5.48	1.00	1.00 x 0.88	**3CXA6**	
	91°	M6	1.95	6.58	0.92	1.03 x 1.12	**3CXA7**	
250	87°	¼	1.53	5.48	1.00	1.00 x 0.88	**3CXC6**	*
	91°	¼	1.95	6.58	0.92	1.03 x 1.12	**3CXC7**	*
295	71°	M5	1.30	5.87	0.75	0.53 x 0.70	**3CXD1**	†
	71°	M5	1.30	5.87	0.75	0.53 x 0.70	**3CXV7**	
500	92°	M8	1.84	6.91	1.31	1.00 x 0.87	**3CXA8**	
	91°	M8	2.40	7.48	1.25	1.02 x 1.24	**3CXA9**	
	92°	M8	1.89	7.09	1.29	1.00 x 0.88	**3CXD5**	†
560	73°	M6	1.95	8.65	0.98	1.03 x 1.21	**3CXD2**	†
	73°	M6	1.95	8.65	0.98	1.03 x 1.21	**3CXV8**	
600	92°	5⁄16	1.84	6.91	1.31	1.00 x 0.88	**3CXC8**	*
	91°	5⁄16	2.40	7.48	1.25	1.02 x 1.24	**3CXC9**	*
750	92°	M10	2.56	10.70	1.75	1.63 x 1.63	**3CXC1**	
	93°	M10	3.18	11.02	1.67	1.61 x 1.69	**3CXC2**	
	92°	M10	2.56	10.50	1.70	1.63 x 1.63	**3CXD6**	†
840	68°	M8	2.25	9.88	1.32	1.03 x 1.21	**3CXD3**	†
	68°	M8	2.25	9.88	1.32	1.03 x 1.21	**3CXW1**	
Compact Horizontal Handle Hold Down								
U-Shaped Arm								
150	90°	M5	1.43	2.21	0.48	0.53 x 0.63	**3CWX4**	
	90°	M5	1.43	2.21	0.48	0.53 x 0.63	**3CWY1**	†
200	90°	M5	1.43	2.21	0.48	0.53 x 0.63	**3CWX7**	*
350	92°	M8	2.36	3.61	0.89	0.91 x 1.14	**3CWX5**	
	92°	M8	2.36	3.61	0.89	0.91 x 1.14	**3CWY2**	†
	92°	M8	2.36	3.61	0.89	0.91 x 1.14	**3CWX8**	*
750	90°	⅜-16	3.53	5.19	1.31	1.38 x 1.50	**3CWX6**	
	90°	⅜-16	3.53	5.19	1.31	1.38 x 1.50	**3CWY3**	†
	90°	⅜-16	3.53	5.19	1.31	1.38 x 1.50	**3CWX9**	*

Stainless Steel. † Wtih Toggle Lock Plus release lever. ‡Does not have neoprene spindle.





DESTACO

Straight Line-Action Clamps

- **All clamps are made of steel (except where indicated)**

Replace fasteners for secure holding of parts on fixtures. Threaded plunger. All models lock in both extended and retracted positions to provide holding force in "pull" or "push" directions. Models with release lever prevent accidental opening due to vibration.

Holding Cap. (lb.)	Plunger Dia. (in.)	Plunger Travel (in.)	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.	
Base Mounted									
100	0.25	0.63	8-32	1.27	2.61	0.50	0.63 x 0.63	**3CXR8**	‡
300	0.44	1.25	5⁄16-18	3.17	5.46	0.97	1.38 x 1.63	**3CXR5**	
	0.44	1.25	5⁄16-18	3.29	5.47	0.97	1.38 x 1.63	**3CXT1**	
560	0.39	0.70	M6	1.59	2.96	0.50	0.87 x 1.75	**3CXR7**	**
600	0.44	1.25	5⁄16-18	3.43	4.77	0.97	1.44 x 1.31	**3CXR9**	
	0.44	1.25	5⁄16-18	3.43	4.77	0.97	1.44 x 1.31	**3CXU4**	†
800	0.51	1.63	5⁄16-18	3.52	6.02	0.69	1.38 x 1.63	**3CXR4**	
	0.62	1.63	⅜-16	4.41	6.72	1.70	1.63 x 1.63	**3CXT3**	
840	0.47	1.25	5⁄16-18	3.43	4.77	0.97	1.44 x 1.31	**3CXU3**	*
850	0.62	1.63	⅜-16	4.04	6.00	1.25	1.63 x 1.63	**3CXT2**	
2500	0.62	2.00	⅜-16	3.05	7.06	0.81	1.38 x 1.63	**3CXT4**	
	0.62	2.00	⅜-16	3.05	7.06	0.81	1.63 x 3.00	**3CXU5**	†
7500	0.87	4.00	½-13	4.28	12.65	1.25	7.12 x 2.13	**3CXT5**	
16000	0.99	3.00	⅝-11	4.84	11.16	2.25	2.75 x 2.25	**3CXR6**	
Through-Hole Mounted									
200	0.39	0.75	¼-20	3.13	2.62	—	—	**3CXT6**	
	0.39	0.75	¼-20	3.13	2.62	—	—	**3CXT9**	*
300	0.44	1.50	5⁄16-18	4.16	4.95	—	—	**3CXT7**	
400	0.44	1.50	5⁄16-18	4.16	4.95	—	—	**3CXU1**	*
700	0.62	2.63	⅜-16	5.60	6.68	—	—	**3CXT8**	
	0.62	2.63	⅜-16	5.60	6.68	—	—	**3CXU2**	*

Stainless steel. † With release lever. ‡ Thumb handle. ** T-Handle.

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)







Knob Detent Pins

Designed for quick-release applications where durability and added grip are needed. Spring-loaded detent ball retracts when pin is pushed or pulled. Black polypropylene. Rounded T-knob pins have retractable coiled lanyards, to keep pin securely tethered to equipment.

Pin Dia.	Grip Length	Item No.
Ball Knob		
¼"	2"	3JDC5
	3"	3JDD1
	4"	3JDD4
⅜"	2⅛"	3JDD8
	3⅛"	3JDE2
½"	3¼"	3JDF5
T-Knob		
¼"	1½"	3JDC3
	1¾"	3JDC4
	2½"	3JDC7
	2¾"	3JDC8
	3"	3JDC9
	3¾"	3JDD3
⅜"	1½"	3JDD6
	2½"	3JDE1
½"	2½"	3JDF4
Rounded T-Knob		
¼"	2"	3JDC6
	3"	3JDD2
	4"	3JDD5
⅜"	1⅜"	3JDD7
	2⅛"	3JDD9
	3⅛"	3JDF3
½"	3¼"	3JDF6





Knob Plunger Pins

Retractable device is easily withdrawn and reengaged. Metal knob plungers are lockout and vibration resistant.

Thread Size	Tip Dia.	Tip Length	Item No.
Plastic Knob			
¼"-20	0.16"	0.190"	3JCZ9
⅜"-16	0.25"	0.280"	3JDA1
½"-13	0.31"	0.380"	3JDA2
⅝"-11	0.38"	0.440"	3JCZ8
Steel Knob			
¼"-20	0.12"	0.125"	3JDA6
⅜"-16	0.18"	0.220"	3JDA8
½"-13	0.24"	0.250"	3JDA9
5⁄16"-18	0.15"	0.188"	3JDC2
Stainless Steel Knob			
¼"-20	0.12"	0.125"	3JDA7
½"-13	0.24"	0.250"	3JDC1







Pop Pins with Weld-on Barrel

Quick, convenient way to adjust height or length on many applications. Case-hardened zinc-plated steel for strength and durability. Nonleaded, nonplated steel barrels for welding are included. Lockout style holds pin in retracted position until adjustments are finalized.

Tip Dia.	Tip Length	Barrel Height	Style	Item No.
Ball Knob				
5⁄16"	0.600"	1.50"	Straight Tip	3CRP2
⅜"	0.600"	1.50"	Straight Tip	3CRN8
	0.600"	1.50"	Lockout	3CRP5
½"	0.560"	1.50"	Short Tip	3CRN5
	0.560"	2.25"	Short Tip	5REK6
	0.610"	1.50"	Tapered Tip	3CRN2
	0.900"	1½"	Straight Tip	3JDF7
Rounded T-Knob				
5⁄16"	0.600"	1.50"	Straight Tip	3CRP3
⅜"	0.600"	1.50"	Straight Tip	3CRN9
	0.600"	1.50"	Lockout	3CRP6
½"	0.560"	1.50"	Short Tip	3CRN6
	0.560"	2.25"	Short Tip	5REK7
	0.610"	1.50"	Tapered Tip	3CRN3
	0.860"	1.50"	Straight Tip	3JDF8
Pull Knob				
5⁄16"	0.600"	1.50"	Straight Tip	3CRP4
⅜"	0.600"	1.50"	Straight Tip	3CRP1
	0.600"	1.50"	Lockout	3CRP7
½"	0.560"	1.50"	Short Tip	3CRN7
	0.560"	2.25"	Short Tip	5REK8
	0.610"	1.50"	Tapered Tip	3CRN4
	0.900"	1½"	Straight Tip	3CRN1









Positive Locking Pins

Provide a secure way to adjust or remove accessories on equipment. Push button initiates and controls ball action and retraction. Use Lanyards (sold separately) to securely affix pin to fixture or frame.

Pin Dia.	Grip Length	BUTTON HANDLE, 17-4 Stainless Steel Item No.	RING HANDLE, 17-4 Stainless Steel Item No.	L-HANDLE, 17-4 Stainless Steel Item No.
3⁄16"	½"	5REK9	5RET7	13Y924
	1"	5REL0	5RET8	13Y925
	1½"	5REL1	5RET9	13Y926
¼"	2"	5REL2	5REU0	13Y927
	½"	5REL3	5REU1	13Y928
	1"	5REL4	3JCW1	13Y929
	1½"	5REL5	3JCW2	13Y930
	2"	5REL6	3JCW3	13Y931
5⁄16"	1"	5REL7	5REU2	13Y932
	1½"	5REL8	5REU3	13Y933
	2"	5REL9	5REU4	13Y934
	2½"	5REN0	5REU5	13Y935
⅜"	1"	5REN1	5REU6	13Y936
	1½"	5REN2	3JCW4	13Y937
	2"	5REN3	3JCW5	13Y938
	2½"	5REN4	5REU7	13Y939
	3"	5REN5	3JCW6	13Y940
	3½"	5REN6	5REU8	13Y941
½"	1½"	5REN7	3JCW7	13Y942
	2"	5REN8	3JCW8	13Y943
	2½"	5REN9	3JCW9	13Y944
	3"	5REP0	3JCX1	13Y945
	3½"	5REP1	3JCX2	13Y946
	4"	5REP2	3JCX3	13Y947

Pin Dia.	Grip Length	T-HANDLE, 17-4 Stainless Steel Item No.	T-HANDLE, 4140 Steel, Zinc Plated Item No.
3⁄16"	½"	5REP3	5REU9
	1"	5REP4	5REV0
	1½"	5REP5	5REV1
¼"	2"	5REP6	5REV2
	½"	5REP7	5REV3
	1"	5REP8	3JCX4
	1½"	5REP9	3JCX5
	2"	5RER0	3JCX6
5⁄16"	1"	5RER1	5REV4
	1½"	5RER2	5REV5
	2"	5RER3	5REV6
	2½"	5RER4	5REV7
⅜"	1"	5RER5	5REV8
	1½"	5RER6	3JCX7
	2"	5RER7	3JCX8
	2½"	5RER8	5REV9
	3"	5RER9	3JCX9
	3½"	5RET0	5REW0
½"	1½"	5RET1	3JCY1
	2"	5RET2	3JCY2
	2½"	5RET3	3JCY3
	3"	5RET4	3JCY4
	3½"	5RET5	3JCY5
	4"	5RET6	3JCY6

Mounting	6" LENGTH Item No.	12" LENGTH Item No.
Lanyards		
Loops At Both Ends	13Y920	13Y921
Loop One End/SS Tab Other End	13Y918	13Y919
Loop One End/SS Eye Other End	13Y922	13Y923





Pull Ring Plunger Pins

Threaded plunger pins are retractable devices that can be easily withdrawn and re-engaged. Spring loaded steel pins with pull ring.

Thread Size	Tip Dia.	Tip Length	Item No.	
Short Pull Ring				
⅝"-11	0.38"	0.440"	3JCY7	
¼"-20	0.16"	0.190"	3JCY8	
⅜"-16	0.25"	0.280"	3JCY9	
½"-13	0.31"	0.380"	3JCZ1	
Pull Ring				
¼"-20	0.15"	0.250"	3JCZ2	
	0.15"	0.250"	3JCZ3	*
⅜"-16	0.23"	0.370"	3JCZ4	
	0.23"	0.370"	3JCZ5	*
½"-13	0.31"	0.500"	3JCZ6	
	0.31"	0.500"	3JCZ7	*

** Include vibration-resistant locking patch.*


No. 3DAE1


No. 6JRG6

Get More Online

For **Cam Levers** in additional sizes, finishes, and materials, go to **Grainger.com®.**

Cam Levers

Single-Action Cam Levers—For clamping that requires quick adjustment, and where space is limited. For external thread levers, handle rotation is required for fixed stud insertion/removal for mating application. Available in lightweight cast aluminum with powder-coat finish or stainless steel with polished finish.

- Black matte finish
- External threads are fixed into the handle

Adjustable Cam Levers—Used when the position of the tensioning lever relative to the axis of tension only permits one specific position. Cam levers allow this position to be adjusted using a screwdriver. Screwdriver slot in stud allows for fine insertion/removal from mating application; handle rotation not required. Available with black powder-coated cast-aluminum handles or stainless steel handles.

- Adjustable with slotted head

Thread Size	Screw Length (in.)	Overall Length	Item No.
External Threads			
Cast Aluminum			
¼-20	0.78	2.76"	**3DAD5**
M10	0.99	3.78"	**3DAE1**

Thread Size	Overall Length	Item No.
Internal Threads		
Cast Aluminum		
10-32	2.76"	**3DAD2**
M8	3.78"	**3DAD7**
Single Action, Internal Threads		
Stainless Steel		
10-32	2.76"	**6JRP4**
M8	3.78"	**6JRP6**

Thread Size	Screw Length	Overall Length	CAST ALUMINUM W/STEEL COMPONENTS Item No.	CAST ALUMINUM W/STAINLESS STEEL COMPONENTS Item No.	STAINLESS STEEL W/STAINLESS STEEL COMPONENTS Item No.
Adjustable, External Threads					
10-32	0.78"	2.76"	**6JRD4**	**6JRF0**	**6JRG6**
M10	1.99"	3.78"	**6JRJ1**	**6JRK7**	**6JRN3**


Internal Threads


External Threads

Ball-Style Adjustable Handles

- Black satin finish

Zinc handle, with inserts and internal components in steel or stainless steel. Adjustable from 20 to 45 positions, depending on handle size. Can be adjusted by pulling up on handle to disengage the gear while stud or insert remains stationary.

Note: Additional handles can be found on Grainger.com®; search for "kipp ball-style adjustable handles."

Thread Size	Overall Length	Thread Length	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
Internal Threads				
10-32	1.85"	1.28"	**3GFP5**	**3GFT9**
M12	4.96"	3.11"	**3GFT2**	**3GFV5**

Thread Size	Overall Length	Screw Length	H	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
External Threads					
10-32	1.85"	0.59"	1.87"	**3GFX1**	**3GGW3**
⅜-16	2.93"	0.78"	2.58"	**3GGF1**	**3GHH1**
M8	3.58"	1.57"	3.84"	**3GGG6**	**3GHK1**


No. 3GHJ9

Modern-Design Adjustable Handles

- Zinc die-cast construction
- External threads

For position adjustment or multiple hold-down applications. Can be adjusted by pulling up on handle to disengage the gear while stud or insert remains stationary.

Note: Additional handles can be found on Grainger.com®; search for "kipp modern-design adjustable handles."

Thread Size	Screw Length	Overall Length	H	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
10-32	0.59"	1.85"	1.81"	**3GHJ9**	**3DDR2**
¼-20	1.99"	2.93"	3.64"	**3DCW7**	**3DDW1**
5⁄16-18	2.36"	2.93"	4.04"	**3DCX9**	**3DDW9**
⅜-16	2.36"	3.58"	4.51"	**3DDE5**	**3DEA3**
M6	0.59"	1.85"	1.81"	**3GHG9**	**3DDP5**
M8	1.57"	2.93"	3.25"	**3DCU3**	**3DDU5**
M10	1.99"	3.58"	4.11"	**3DDC1**	**3DDY8**

DAVIES DESIGNERS & MANUFACTURERS OF KNOBS, HANDLES, CAGES & CUSTOM PLASTIC COMPONENTS

INNOVATIVE COMPONENTS, INC. for Innovative Solutions

Knobs and Levers

T-KNOBS

For moderate- to heavy-torque applications. Black polypropylene knobs have steel zinc insert and satin finish. Heat-resistant phenolic knobs have brass insert or steel, zinc-plated screw.

3-PRONG

Designed for clamping and quick adjustment. Rounded edges make knobs easy to grasp and turn. Knobs up to 1¾" dia. are 3P style; 2" dia. and up are RT style.

4-PRONG AND 4-LOBE

For high-torque or heavy-duty clamping applications. Soft touch 4-lobe knobs have over-molded rubber layer for comfortable, nonslip grip.

SNAP-LOCK

Molded with a hex hole to accept standard locknuts, hex nuts, hex bolts, and hex cap screws. Fasteners can be easily pushed into position and snapped into the hex hole for a secure fit.

FLUTED

Large flutes and wide hub design for heavy torque applications, clamping, and quick adjustment. Easy to grasp and turn. Knobs up to 1¾" dia. are F2/F4 style; 2" dia. and up are F6 style. Soft touch knobs have over-molded rubber layer for a sure, comfortable grip.

STAR

For high torque applications, with rounded edges for comfortable grip. Impact- and scratch-resistant black polypropylene knobs have steel zinc insert. Knobs with locking thru taps have molded lock nut for vibration resistance. Soft touch knobs have over-molded rubber layer for nonslip grip.

BALL

Multipurpose black knobs with satin finish hide scratches and dirt. Soft touch knobs have over-molded rubber layer for comfortable, nonslip grip.

UNIVERSAL

Self-tapping/threading black polypropylene knobs are vibration resistant. Fit multiple thread sizes. No metal insert.

PULL

Designed for pushing, pulling, and lifting. Black color, impact and scratch resistant.

LONG TAPERED

Designed for heavy-duty applications. Impact and scratch-resistant black polypropylene knobs have steel zinc insert.

KNURLED

Deep, coarse knurls and rounded edges provide sure grip. Impact and scratch resistant, and designed for quick adjustment. For applications where clearance is an issue. ABS thermoplastic knobs are heat resistant to 250°F; nylon to 275°F.

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Rounded T-Knobs, Blind Tap					
Polypropylene					
2.25"	¼-20	—	1.375"	Innovative Components	3GEM4
	5/16-18	0.75"	1.375"		3GEM5
	5/16-18	—	1.375"		3GEM6
	3/8-16	1.00"	1.375"		3GEM7
	3/8-16	—	1.375"		3GEM8
T-Knobs, Blind Tap					
Polypropylene					
1.125"	10-24	—	0.75"	Innovative Components	3GEH7
	¼-20	—	1.00"		3GEJ2
2.00"	¼-20	—	1.00"		3GEJ9
	5/16-18	—	1.00"		3GEK6
	3/8-16	—	1.00"		3GEL2
2.50"	5/16-18	—	1.125"		3GEL7
	3/8-16	—	1.125"		3GEM2
3.50"	½-13	—	1.125"		3GEM3
Phenolic					
2.00"	¼-20	—	1.15"	Davies	6AXE6
	5/16-18	—	1.13"		6AXE7
	3/8-16	—	1.15"		6AXE8
2.50"	¼-20	—	1.16"		6AXF3
	5/16-18	—	1.15"		6AXF4
	3/8-16	—	1.16"		6AXF5
Snap Lock T-Knobs, Thru Tap					
Polypropylene					
1.25"	#10	—		Innovative Components	5REG9
	¼"	—			5REH0
	M6	—			5REH1
2.00"	¼"	—	1.00"		3GEL4
Snap Lock 3-Prong, Thru Tap					
Polypropylene					
1.75"	#10	—		Innovative Components	5REG8
	¼"	—	1.00"		3GDL3
	M6	—	1.00"		3GDL4
2.00"	¼"	—	1.125"		3GDN4
	5/16"	—	1.125"		3GDN5
	M6	—	1.125"		3GDN6
	M8	—	1.125"		3GDN7
3-Prong with Screw					
Polypropylene					
1.75"	¼-20	0.75"	1.00"	Innovative Components	3GDJ9
	5/16-18	0.50"	1.00"		3GDK4
	5/16-18	1.50"	1.00"		3GDK5
	3/8-16	1.50"	1.00"		3GDK9
2.00"	¼-20	1.00"	1.125"		3GDL5
	5/16-18	1.00"	1.125"		3GDL8
Phenolic					
0.875"	8-32	0.50"	1.25"	Davies	6AXG1
	10-32	0.50"	1.25"		6AXG3
	¼-20	0.50"	1.26"		6AXG2
	10-32	0.44"	1.21"		6AXG8
1.125"	¼-20	0.50"	1.27"		6AXG5
	¼-20	0.75"	1.52"		6AXH0
	¼-20	1.00"	1.77"		6AXH1
	¼-20	1.50"	2.27"		6AXG6
	¼-20	0.56"	1.44"		6AXH4
	¼-20	0.75"	1.63"		6CXP8
1.50"	¼-20	1.00"	1.88"		6CXR0
	5/16-18	0.50"	1.38"		6CXR3
	5/16-18	0.75"	1.63"		6CXR1
	5/16-18	1.00"	1.88"		6CXR2
	¼-20	1.00"	2.00"		6CXR5
	5/16-18	0.75"	1.76"		6CXR8
2.00"	5/16-18	1.00"	2.39"		6CXR7
	3/8-16	0.50"	1.50"		6CXR9
	3/8-16	1.00"	2.00"		6CXR6
3-Prong, Blind Tap					
Polypropylene					
1.25"	¼-20	—	1.00"	Innovative Components	3GDJ6
	5/16-18	—	1.00"		3GDJ8
	¼-20	—	1.00"		3GDK2
1.75"	5/16-18	—	1.00"		3GDK7
	3/8-16	—	1.00"		3GDL2
	¼-20	—	1.125"		3GDL7
2.00"	5/16-18	—	1.125"		3GDN1
	3/8-16	—	1.125"		3GDN3
2.50"	5/16-18	—	1.125"		3GDN9
Phenolic					
0.875"	8-32	—	0.75"	Davies	6AXF8
	10-32	—	0.75"		6AXF9
	¼-20	—	0.75"		6AXG0
	10-24	—	0.76"		6AXG7
1.125"	10-32	—	0.76"		6AXG9
	¼-20	—	0.77"		6AXG4
	¼-20	—	0.88"		6CXP9
1.50"	5/16-18	—	0.88"		6CXP7
	5/16-18	—	1.02"		6CXT0
2.00"	3/8-16	—	1.02"		6CXR4

Dia.	Thread Size	Screw Length	L	Brand	Item No.
3-Prong, Thru Tap					
Polypropylene					
1.25"	¼-20	—	1.00"	Innovative Components	3GDJ5
	5/16-18	—	1.00"		3GDJ7
	¼-20	—	1.00"		3GDK1
1.75"	¼-20	—	1.00"		3GDK3 *
	5/16-18	—	1.00"		3GDK6
	5/16-18	—	1.00"		3GDK8 *
	3/8-16	—	1.00"		3GDL1
	¼-20	—	1.125"		3GDL6
2.00"	5/16-18	—	1.125"		3GDL9
	3/8-16	—	1.125"		3GDN2
2.50"	5/16-18	—	1.125"		3GDN8
	3/8-16	—	1.125"		3GDP1
Phenolic					
1.125"	10-32	—	0.77"	Davies	6AXH2
	¼-20	—	0.77"		6AXH3
4-Prong, Blind Tap					
Polypropylene					
1.75"	¼-20	—	1.00"	Innovative Components	3GDP5
	5/16-18	—	1.00"		3GDP9
	¼-20	—	1.125"		3GDR4
2.50"	5/16-18	—	1.125"		3GDR8
	3/8-16	—	1.125"		3GDT4
Soft Touch 4-Lobe, Blind Tap					
Polypropylene, TPE Overmold					
1.375"	¼-20	—	0.625"	Innovative Components	3GDT8
1.75"	5/16-18	—	0.875"		3GDU1
2.00"	3/8-16	—	1.00"		3GDU3
Star, Blind Tap					
Polypropylene					
1.375"	¼-20	—	1.125"	Innovative Components	3GEN2
	5/16-18	—	1.125"		3GEN4
1.75"	¼-20	—	1.25"		3GEP5
	5/16-18	—	1.25"		3GEP9
2.25"	¼-20	—	1.00"		3GEU2
	5/16-18	—	1.00"		3GEU4
	3/8-16	—	1.00"		3GEU6
Snap Lock Stars, Thru Tap					
	#10	—			5REG7
1.375"	¼"	—	1.125"		3GEN6
	5/16"	—	1.125"		3GEN7
	M6	—	1.125"		3GEN8
	M8	—	1.125"		3GEN9
	¼"	—	1.25"		3GER2
	5/16"	—	1.25"		3GER3
1.75"	3/8"	—	1.25"		3GER4
	M6	—	1.25"		3GER5
	M8	—	1.25"		3GER6
	M10	—	1.25"		3GER7
	¼"	—	1.00"		3GEU7
	5/16"	—	1.00"		3GEU8
2.25"	3/8"	—	1.00"		3GEU9
	M6	—	1.00"		3GEV1
	M8	—	1.00"		3GEV2
	M10	—	1.00"		3GEV3
Soft Touch Fluted, Blind Tap					
Polypropylene, TPE Overmold					
2.50"	5/16-18	—	1.25"	Innovative Components	3GDZ6
	3/8-16	—	1.25"		3GDZ9
	½-13	—	1.25"		3GEA3
Soft Touch Fluted, Thru Tap					
Polypropylene, TPE Overmold					
2.50"	5/16-18	—	1.25"	Innovative Components	3GDZ5
	3/8-16	—	1.25"		3GDZ8
	½-13	—	1.25"		3GEA2
Soft Touch Fluted with Screw					
Polypropylene, TPE Overmold					
2.50"	5/16-18	1.75"	1.25"	Innovative Components	3GDZ4
	3/8-16	2.00"	1.25"		3GDZ7
	½-13	1.50"	1.25"		3GEA1
Control Lever					
Phenolic					
1.875"	¼-20	—	1.29"	Davies	6CYH6
	3/8-16	—	1.29"		6CYH5
Rounded Lever					
Phenolic					
2.00"	3/8-24	—	1.58"	Davies	6CYG4
	3/8-16	—	1.58"		6CYG5
	¼-20	—	1.58"		6CYG6
Large Concave Pull					
Phenolic					
1.50"	8-32	—	0.81"	Davies	6CYP6
	10-32	—	0.81"		6CYP7

** Locking. † Short Hub.*

CONTINUED

Knobs and Levers

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Pull					
Black Polypropylene					
1.00"	10-24	—	1.00"	Innovative Components	3GEF2
	¼-20	—	1.00"		3GEF3
1.625"	¼-20	—	1.25"		3GEF4
	5⁄16-18	—	1.25"		3GEF5
	⅜-16	—	1.25"		3GEF6
Pulls					
Phenolic					
0.66"	6-32	—	0.78"	Davies	6CYN2
	8-32	—	0.61"		6CYN3
	10-32	—	0.61"		6CYN4
0.81"	8-32	—	0.78"		6CYN5
	10-32	—	0.78"		6CYN6
0.91"	8-32	—	0.91"		6CYN7
	10-32	—	0.91"		6CYN8
	¼-20	—	0.91"		6CYN9
	6-32	—	1.03"		6CYP1
1.05"	8-32	—	1.03"		6CYP0
	10-32	—	1.03"		6CYP2
Knurled, Blind Tap					
ABS Plastic					
0.75"	8-32	—	0.625"	Innovative Components	3GEC3
1.00"	10-32	—	0.625"		3GED3
	¼-20	—	0.625"		3GEE1
Polypropylene					
0.75"	10-32	—	0.50"	Innovative Components	3GEA4
	10-24	—	0.50"		3GEA5
1.00"	8-32	—	0.625"		3GEE6
Nylon					
0.75"	10-32	—	0.50"	Innovative Components	3GEC5
	10-24	—	0.50"		3GEC8
1.00"	10-24	—	0.50"		3GED5
	¼-20	—	0.625"		3GEE2 †
Phenolic					
1.00"	¼-20	—	0.75"	Davies	6CXX4
	¼-20	—	0.77"		6CXW9
1.25"	⅜-16	—	0.75"		6CXX0
	5⁄16-18	—	0.78"		6CXX1
Ball with Raised Dia.					
1.625"	⅜-16	—	1.33"	Davies	6CYG3
Knurled, with Screw					
Polypropylene					
1.00"	¼-20	2.125"	0.50"	Innovative Components	3GED9
Soft Touch Universal Ball					
Black Polypropylene, TPE Overmold					
1.625"	5⁄16", ⅜", M8, M10	—	1.50"	Innovative Components	3GDG3 †
1.875"	⅜", ½", M10	—	1.75"		3GDH4 †

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Deluxe Ball					
Phenolic					
0.78"	10-32	—	0.73"	Davies	6CYE5
	¼-20	—	0.73"		6CYE6
1.00"	¼-20	—	0.91"		6CYE7
	5⁄16-18	—	0.91"		6CYE8
	5⁄16-18	—	1.18"		6CYE9
1.25"	⅜-16	—	1.18"		6CYF0
	⅜-24	—	1.18"		6CYF1
1.41"	½-13	—	1.37"		6CYF2
	5⁄16-18	—	1.33"		6CYF3
	⅜-24	—	1.85"		6CYF4
2.00"	½-13	—	1.85"		6CYF5
	⅝-18	—	1.85"		6CYF6
Gear Shift					
1.50"	⅜-16	—	1.32"	Davies	6CYF7
	⅜-24	—	1.32"		6CYF8
Rounded Shift					
Phenolic					
1.375"	¼-20	—	1.50"	Davies	6CYG1
	5⁄16-18	—	1.50"		6CYF9
	⅜-16	—	1.50"		6CYG0
	⅜-16	—	1.50"		6CYG2
Shift					
Black Polypropylene					
1.375"	10-32	—	2.00"	Innovative Components	3GEF7
	¼-20	—	2.00"		3GEF8
	5⁄16-18	—	2.00"		3GEG3
	⅜-16	—	2.00"		3GEG5
1.625"	⅜-16	—	2.50"		3GEG8 †
	½-13	—	2.50"		3GDD4
Phenolic					
1.125"	¼-20	—	1.46"	Davies	6CYH0
	5⁄16-18	—	1.47"		6CYH1
	⅜-16	—	1.47"		6CYH2
	⅜-24	—	1.47"		6CYH3
1.25"	¼-20	—	1.78"		6CYG8
	5⁄16-18	—	1.78"		6CYG9
	⅜-16	—	1.77"		6CYG7
Long Fluted Tapered, with Screw					
Phenolic					
1.125"	¼-20	0.37"	3.89"	Davies	6CYT5
1.375"	⅜-16	0.75"	4.95"		6CYT8

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Control with Indicator, Blind Tap					
Inj. Phenolic					
0.48"	¼"	—	0.55"	Davies	6CYJ1
0.58"	¼"	—	0.63"		6CYJ2
Phenolic					
0.75"	¼"	—	0.78"	Davies	6CYJ3
1.06"	¼"	—	0.70"		6CYJ4
Control with Indicator Line, Blind Tap					
Phenolic					
0.66"	¼"	—	0.47"	Davies	6CYH7
0.91"	¼"	—	0.58"		6CYH8
1.16"	¼"	—	0.66"		6CYH9
1.50"	¼"	—	0.81"		6CYJ0
Pointed Control with Set Screw and Indicator Line, Blind Tap					
Phenolic					
0.75"	¼"	—	0.76"	Davies	6CYK5
1.125"	¼"	—	0.57"		6CYK4
	¼"	—	0.62"		6CYK8
1.50"	¼"	—	0.76"		6CYK6
Instrument with Set Screw and Inlay, Blind Tap					
0.375"	¼"	—	0.63"	Davies	6CYJ5
0.53"	¼"	—	0.63"		6CYJ6
0.875"	¼"	—	0.69"		6CYJ7
Instrument with Set Screw, Blind Tap					
Phenolic					
0.50"	¼"	—	0.63"	Davies	6CYJ9
0.625"	¼"	—	0.42"		6CYJ8

** Locking. † Short Hub.*

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Starrett® GENERAL® WESTWARD brown & sharpe Mitutoyo

Dial Calipers

- Stainless steel construction (except No. 3YWH2 which is reinforced fiberglass)

Measure I.D., O.D., depth, and steps. All except No. 2ZUF1 include fitted case. No. 5RCH9 has a natural finish and includes a declaration of conformity. Nos. 2ZUF2, 2ZUE3, and 2ZUE7 have a polished finish; No. 2ZUE7 has a covered rack depth rod. No. 5RCJ1 features a thumbwheel. No. 4CGJ6 has satin chrome finish. No. 4LA87 features carbide O.D./I.D. jaws. No. 4CGK1 has satin chrome finish. No. 5RCG4 has TiN-coated wear surfaces. No. 2ZUF1 has long nib jaws.

Caliper Range	Range per Revolution	Jaw Depth	Caliper Dial Color	Brand	Mfr. Model	Item No.	
Fractional, 1/64" Graduations							
0-6"	1.000"	1 1/2"	White, Yellow	Starrett	1202F-6	**2ZUE6**	
Decimal, 0.01" Graduations							
0-6"	0.010"	1 1/2"	White	General	142	**3YWR5**	
Decimal, 0.001" Graduations							
0-4"	0.100"	1"	White	Westward	—	**6XU77**	
0-6"	0.001"	1 1/2"	White	General	107	**3YWT2**	
	0.010"	1 9/16"	Black	Tesa Brown & Sharpe	00589021	**49U608**	
	0.010"	1 9/16"	White	Tesa Brown & Sharpe	00589020	**49U606**	
	0.100"	1 1/2"	Black	Starrett	B120A-6	**2ZUF2**	
	0.100"	1 1/2"	Black	Tesa Brown & Sharpe	599-579-5	**5RCH9**	
	0.100"	1 1/2"	White	Starrett	3202-6	**2ZUE3**	
	0.100"	1 1/2"	White	Starrett	120A-6	**2ZUE7**	
	0.100"	1 1/2"	White	Tesa Brown & Sharpe	599-579-4	**5RCH8**	
	0.100"	1 1/2"	White	Tesa Brown & Sharpe	75.115811	**5RCJ1**	
	0.100"	1 3/8"	White	Westward	—	**4KU74**	
	0.100"	1 9/16"	Black	Mitutoyo	505-742-56	**4CGJ6**	
	0.100"	1 9/16"	Blue	Mitutoyo	505-742-51	**1ZRR7**	
	0.100"	1 9/16"	Red	Mitutoyo	505-742-54	**4CGJ4**	
	0.100"	1 9/16"	White	Mitutoyo	505 736	**4CGJ9**	
	0.100"	1 9/16"	White	Mitutoyo	505-742 CERT	**4LA82**	*
	0.100"	1 9/16"	White	Mitutoyo	505-742	**4LA83**	
	0.100"	1 9/16"	White	Mitutoyo	505-738	**4LA87**	
	0.200"	1 9/16"	White	Mitutoyo	505-744	**4CGK1**	
	0.200"	1 9/16"	White	Mitutoyo	505-740	**4LA89**	
0-8"	0.010"	1 31/32"	White	Tesa Brown & Sharpe	00589045	**49U607**	
	0.100"	1 31/32"	White	Mitutoyo	505-743	**4LA84**	
	0.100"	1 31/32"	White	Mitutoyo	505-743CERT	**5RCG4**	*
	0.100"	1 31/32"	White	Westward	—	**4KU75**	
	0.100"	1 1/2"	White	Starrett	3202-8	**2ZUE4**	
	0.200"	1 31/32"	White	Mitutoyo	505-741	**4LA90**	
0-12"	0.1"	2 1/2"	White	Tesa Brown & Sharpe	00589046	**49U609**	
	0.100"	3"	White	Starrett	120B-12	**2ZUF1**	
	0.100"	2 1/2"	White	Mitutoyo	505-746 CERT	**4LA85**	*
	0.100"	2 1/2"	White	Mitutoyo	505-746	**4LA86**	
	0.100"	2 1/2"	White	Starrett	3202-12	**2ZUE1**	
	0.100"	2 1/2"	White	Starrett	120Z-12	**5UAJ2**	
	0.100"	2 1/2"	White	Tesa Brown & Sharpe	599-579-12-1	**5RCJ0**	
	0.100"	2 7/16"	White	Westward	—	**4KU73**	
	0.200"	2 1/2"	White	Mitutoyo	505-749	**1ZRR9**	
0-24"	0.100"	3 3/8"	White	Westward	—	**6XU79**	
4" Depth Attachment Base							
For 4", 6", 8"/100mm, 150mm, and 200mm Dial, Vernier, and Digital Calipers				Mitutoyo	050083-10	**4LA50**	

Range (mm)	Range per Revolution (mm)	Jaw Depth (in.)	Dial	Brand	Mfr. Model	Item No.
Metric, 0.1mm Graduations						
0 to 150	10	1.50	White	General	144MM	**3YWH2**
Metric, 0.02mm Graduations						
0 to 150	2.0	1.50	Yellow	Starrett	120AM-150	**2ZUE9**
	2.0	1.57	Yellow	Mitutoyo	505-730	**4LA81**
0 to 200	2.0	1.97	Yellow	Mitutoyo	505-731	**16X242**
0 to 300	2.0	2.52	Yellow	Mitutoyo	505-745	**16X243**

**** Includes long form Certificate of Calibration.***



No. 6XU77



No. 3YWT2



No. 5RCH8



No. 2ZUE4



No. 4LA81

GENERAL® Mitutoyo WESTWARD Starrett®

Vernier Calipers

Hardened stainless steel calipers provide 4-way measurements for outside, inside, depth, and step. Fitted case included.

Range (in.)	Range (mm)	Graduations (in.)	Graduations (mm)	Jaw Depth (in.)	Brand	Mfr. Model	Item No.
Vernier Caliper							
0 to 4	0 to 102	1/16	1	0.75	General	729ME	**3YWR2**
	—	1/16 and 1/32	—	0.75	General	729	**3YWP8**
0 to 6	0 to 150	0.001	0.02	1.58	Mitutoyo	530-312	**4LA93**
	0 to 150	0.001	0.02	1.76	Westward	—	**4KU77**
	0 to 150	0.002	0.02	1.50	Starrett	125MEA-6/150	**2ZUF4**
	—	32nds/64ths	—	1 3/8	Starrett	1025-6	**5UAU5**
0 to 8	0 to 200	0.002	0.02	1.50	Starrett	125MEA-8/200	**2ZUF5**
0 to 12	0 to 300	0.001	0.02	2.18	Westward	—	**4KU76**
	0 to 300	0.002	0.02	1.50	Starrett	125MEA-12/300	**2ZUF3**
0 to 48	—	0.001	—	3	Starrett	123Z-48	**4CEP2**
Vernier Caliper w/Lock Screw							
0 to 6	—	0.001/1/128	—	1.57	Mitutoyo	530-105	**4CGN6**
0 to 8	0 to 200	0.001	0.02	2	Mitutoyo	530-118	**4CGN7**



No. 4KU76

GENERAL Mitutoyo WESTWARD brown & sharpe Starrett BAILEIGH

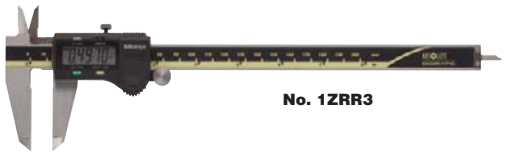
Electronic Digital Calipers

- LCD
- SPC cables sold separately, see page 2328

Feature zero set, On/Off, and inch/mm control buttons. On Brown & Sharpe models, TWIN-CAL calipers include built-in TWIN wireless connectivity. Include durable stainless steel frame, auto shut-off, and instant inch/metric conversion. Nos. 1XHP6 and 2YNJ9 display decimal inches, fractions, and metric. Nos. 4CGL9 does not include case or pouch.


No. 1AAU4


No. 6PCN2


No. 1ZRR3


No. 49U602


No. 2ZA61


No. 1XHP6

Caliper Range	Jaw Depth	Accuracy	IP Rating	SPC Output	Brand	Mfr. Model	Item No.
Carbon Fiber, 0.0005"/0.01mm							
0-24"/0-600mm	3 15/16"	±0.002"/0.05mm	66	Yes	Mitutoyo	552-313-10	**4CGN2**
0-18"/0-450mm		±0.002"/0.05mm	66	Yes	Mitutoyo	552-312-10	**4CGN1**
0-3"/0-76mm	1 9/16"	±0.004"/0.10mm	—	No	General	1433	**6TFF9**
Carbon Fiber, 0.0005"/0.01mm/1/64"							
0-6"/0-153mm	3"	±0.008"/0.2mm	54	No	General Tools	146	**54GX49**
Plastic, 0.0005"/0.01mm							
0-6"/0-150mm	1 1/2"	±0.008"/0.16mm	54	No	Westward	—	**2YNC6**
Stainless Steel, 0.0005"/0.01mm							
0-80"/0-2000mm		±0.005"/0.20mm	—	Yes	Mitutoyo	552-316-10	**4CGN5**
0-60"/0-1500mm	5 29/32"	±0.004"/0.10mm	66	Yes	Mitutoyo	552-315-10	**4CGN4**
		±0.004"/0.10mm	66	Yes	Mitutoyo	552-315-10CERT	**36J731**
0-40"/0-1000mm	5 1/2"	±0.002"/0.05mm	66	Yes	Mitutoyo	552-314-10	**4CGN3**
	3 35/64"	±0.003"/0.08mm	—	No	Mitutoyo	500-507-10	**41T260**
	4"	±0.003"/0.08mm	—	No	Mitutoyo	500-507-10 w/cert	**41T265**
0-24"/0-600mm		±0.0005"/0.01mm	—	Yes	Westward	—	**4KY19**
	3 35/64"	±0.002"/0.05mm	—	No	Mitutoyo	500-506-10	**1ZRR5**
		±0.002"/0.05mm	—	No	Mitutoyo	500-506-10CERT	**1ZRR6** *
	4"	±0.002"/0.05mm	—	No	Starrett	799AZ-24/600	**2ZUG3**
	3 15/16"	±0.002"/0.05mm	—	Yes	Mitutoyo	550-225-10	**4CGK6**
0-18"/0-450mm	3 35/64"	±0.002"/0.05mm	—	No	Westward	—	**29AD39**
		±0.002"/0.05mm	—	No	Mitutoyo	500-505-10	**4CGK5**
0-12"/0-300mm	2 1/2"	0.001/0.025mm	40	Yes	Tesa Brown & Sharpe	00590095	**49U602**
		0.001/0.025mm	67	Yes	Tesa Brown & Sharpe	00590305	**38P085**
	2 13/32"	±0.001"/0.02mm	40	No	Westward	—	**2ZA61**
	2 1/2"	±0.001"/0.03mm	67	No	Starrett	798A-12/300	**6PCN4**
		±0.001"/0.03mm	67	Yes	Starrett	798B-12/300	**5UAU1**
		±0.001"/0.03mm	67	Yes	Starrett	798B-12/300 W/SLC	**5UAU2** *
		±0.0015"/0.03mm	67	No	Mitutoyo	500-754-20CERT	**36J724**
		±0.0015"/0.03mm	67	No	Mitutoyo	500-754-20	**4CGL6**
		±0.0015"/0.03mm	67	Yes	Mitutoyo	500-764-20 W/CERT	**41T269**
		±0.0015"/0.03mm	67	Yes	Mitutoyo	500-764-20	**36J720**
		±0.0015"/0.03mm	—	No	Mitutoyo	500-193-30	**5JK61**
		±0.0015"/0.03mm	—	No	Mitutoyo	500-193-30 W/CERT	**5JK62** *
	2 23/64"	±0.0015"/0.03mm	—	Yes	Westward	—	**29AD40**
	2 1/2"	±0.0015"/0.03mm	—	Yes	Mitutoyo	500-173-30	**5C671**
		±0.0015"/0.03mm	—	Yes	Mitutoyo	500-173-30 W/CERT	**5JK60** *
		±0.0015"/0.04mm	—	No	Starrett	EC799A-12/300	**2ZUF9**
0-8"/0-200mm	1 7/8"	0.001/0.025mm	67	Yes	Tesa Brown & Sharpe	00590304	**38P084**
	1 31/32"	±0.001"/0.025mm	67	No	Mitutoyo	500-753-20	**2VRA8**
		±0.001"/0.025mm	67	No	Mitutoyo	500-753-20CERT	**5RCG2** *
		±0.001"/0.025mm	67	Yes	Mitutoyo	500-763-20	**4CGL8**
		±0.001"/0.025mm	—		Mitutoyo	500-197-30CERT	**1ZRR4** *
		±0.001"/0.025mm	—	No	Mitutoyo	500-197-30	**1ZRR3**
		±0.001"/0.025mm	—	Yes	Mitutoyo	500-172-30CERT	**1ARG2** *
		±0.001"/0.025mm	—	Yes	Mitutoyo	500-172-30	**5C670**
	1 7/8"	±0.001"/0.03mm	67	No	Starrett	798A-8/200	**6PCN3**
		±0.001"/0.03mm	67	Yes	Starrett	798B-8/200	**5UAT9**
	2"	±0.0015"/0.02mm	40	No	Westward	—	**2YNC7**
	1 31/32"	±0.0015"/0.03mm	—	No	Westward	—	**29AD37**
0-6"/0-150mm	1 9/16"	0.001/0.025mm	40	Yes	Tesa Brown & Sharpe	00590092	**49U599**
	1 1/2"	0.001/0.025mm	67	Yes	Tesa Brown & Sharpe	00590302	**38P082**
	1 9/16"	±0.001"/0.02mm	40	No	Westward	—	**2ZA59**
		±0.001"/0.02mm	54	No	Westward	—	**2ZA60**
	1 1/2"	±0.001"/0.02mm	—	No	Westward	—	**1AAU4**
		±0.001"/0.02mm	—	No	Starrett	EC799A-6/150	**2ZUG1**
	1 9/16"	±0.001"/0.025mm	67	No	Mitutoyo	500-752-20	**2VNH6**
		±0.001"/0.025mm	67	No	Mitutoyo	500-752-20CERT	**36J723**
		±0.001"/0.025mm	67	No	Mitutoyo	500-784	**4CGL2**
		±0.001"/0.025mm	67	Yes	Mitutoyo	500-762-20	**4CGL7**
		±0.001"/0.025mm	67	Yes	Mitutoyo	500-762-20 W/CERT	**36J727**
		±0.001"/0.025mm	—	No	Mitutoyo	500-160-30	**4CGK3**
		±0.001"/0.025mm	—	No	Mitutoyo	500-196-30	**5C672**
		±0.001"/0.025mm	—	No	Mitutoyo	500-171-30CERT	**5JK59** *
		±0.001"/0.025mm	—	No	Mitutoyo	500-196-30CERT	**5JK63** *
		±0.001"/0.025mm	—	No	Mitutoyo	500-474	**5JK64**
		±0.001"/0.025mm	—	No	Mitutoyo	500-474CERT	**5JK65** *
		±0.001"/0.025mm	—	Yes	Mitutoyo	500-171-30	**5C668**
	1 1/2"	±0.001"/0.03mm	67	No	Starrett	798A-6/150	**6PCN2**
		±0.001"/0.03mm	67	Yes	Starrett	798B-6/150	**5UAT7**
		±0.001"/0.03mm	67	Yes	Starrett	798B-6/150 W/SLC	**5UAT8** *
	1 39/64"	±0.0015"/0.03mm	54	No	Baileigh Industrial	B-MEASUREDC	**36HZ56**
0-4"/0-100mm	1 9/16"	±0.001"/0.025mm	—	No	Mitutoyo	500-195-30	**1ARG3**
		±0.001"/0.025mm	—	No	Mitutoyo	500-195-30CERT	**1ARG4** *
		±0.001"/0.025mm	—	No	Mitutoyo	500-170-30	**4CGK4**
Stainless Steel, 0.0005"/0.01mm/1/64"							
0-12"/0-305mm	1 21/32"	±0.001"/0.02mm	—	No	General	14712	**8MYV0**
0-8"/0-200mm		±0.001"/0.02mm	—	No	General	1478	**8MYU9**
0-6"/0-150mm	1 39/64"	±0.001"/0.02mm	54	Yes	Westward	—	**2YNJ9**
	1 9/16"	±0.001"/0.03mm	—	No	General	147	**1XHP6**
		±0.0015"/0.03mm	—	No	Westward	—	**29AD36**
Stainless Steel, 0.001"/0.10mm							
0-8"/0-200mm	1 9/16"	±0.005"/0.20mm	—	No	Mitutoyo	700-123-10	**4CGL9**
Stainless Steel, 0.01"/0.10mm							
0-200mm	1 31/32"	±0.20mm	67	Yes	Mitutoyo	500-152-30	**33RK78**

Includes Long Form Certificate of Calibration.

Mitutoyo Starrett® WESTWARD brown & sharpe

Outside Micrometers

Electronic—IP65 units are resistant to jet-directed and hose-directed fluids. IP67 units provide protection against immersion.
- Zero set
- LCD
- In/mm selectable

Mechanical Digital—All units over 1" include a standard to verify instrument setting.
- Spindle lock

Vernier—Ratchet stop or friction thimble for exact, repetitive readings. Include a standard bar except for 0" to 1" and 0 to 25mm models.



No. 2NXD3



No. 2ZTX4



No. 1ARD9



No. 2YNA1

Range	Thimble	SPC Output*	Brand	Mfr. Model	Item No.	
Electronic 0.00005"/0.001mm Resolution						
0 to 1"/0 to 25mm	Friction	No	Mitutoyo	293-832-30	**1ARD7**	
	Ratchet	No	Mitutoyo	293-831-30	**1ARD6**	
	Friction	No	Starrett	3732XFL-1	**5UAR8**	
1 to 2"/25.4 to 50.8mm	Friction	No	Starrett	3732XFL-2	**5UAR9**	
2 to 3"/50 to 75mm	Friction	No	Starrett	3732XFL-3	**5UAT0**	
3 to 4"/75 to 100mm	Friction	No	Starrett	3732XFL-4	**5UAT1**	
Blade Anvil						
0 to 1"/0 to 20mm	Ratchet	Yes	Mitutoyo	342-371-30	**4CGG9**	
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	422-360-30	**6NPZ7**	
	Ratchet	Yes	Mitutoyo	422-330-30	**6NPZ5**	
1 to 2"/25 to 50mm	Ratchet	Yes	Mitutoyo	422-331-30	**6NPZ6**	
Deep Throat						
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	389-351-30	**6NPZ1**	
Digimatic Quickmike						
0 to 1"/0 to 30mm	Ratchet	Yes	Mitutoyo	293-676-20	**4CGG4**	
Disk Anvil						
0 to 1"/0 to 25mm	Friction	Yes	Starrett	756FL-1	**5TZZ6**	
	Ratchet	Yes	Mitutoyo	323-350-30	**4CGG6**	
Flat Anvil						
2 to 3"/50 to 75mm	Friction	Yes	Starrett	733XFLZ-3	**5TZX4**	
Interchangeable Anvil						
0 to 4"/0 to 101mm	Friction	Yes	Starrett	714AAFLZ	**5TZY0**	
2 to 6"/51 to 152mm	Friction	Yes	Starrett	714AFLZ	**5TZY1**	
IP65						
0 to 1"/0 to 25mm	Friction	No	Mitutoyo	293-348-30	**4LA76**	
	Friction	Yes	Mitutoyo	293-335-30	**4LA73**	
	Ratchet	No	Mitutoyo	293-340-30CERT	**4LA74**	†
	Ratchet	No	Mitutoyo	293-340-30	**4LA75**	
	Ratchet	No	Mitutoyo	293-344-30CERT	**1ARD4**	†
	Ratchet	No	Mitutoyo	293-344-30	**1ARB6**	
	Ratchet	Yes	Mitutoyo	293-330-30CERT	**1ARB5**	†
	Ratchet	Yes	Mitutoyo	293-330-30	**4LA70**	
1 to 2"/25 to 50mm	Ratchet	No	Mitutoyo	293-345-30	**1ARD5**	
	Friction	Yes	Mitutoyo	293-336-30	**4CGF8**	
	Ratchet	No	Mitutoyo	293-341-30	**6NPY6**	
	Ratchet	Yes	Mitutoyo	293-331-30	**4LA71**	
2 to 3"/50 to 75mm	Ratchet	No	Mitutoyo	293-346-30	**4CGF9**	
	Ratchet	No	Mitutoyo	293-342-30	**6NPY7**	
	Ratchet	Yes	Mitutoyo	293-332-30	**4LA72**	
3 to 4"/75 to 100mm	Ratchet	No	Mitutoyo	293-347-30	**4CGG1**	
	Ratchet	Yes	Mitutoyo	293-333-30	**4CGF7**	
4 to 5"/100 to 125mm	Ratchet	Yes	Mitutoyo	293-350-30	**6NPY8**	
5 to 6"/125 to 150mm	Ratchet	Yes	Mitutoyo	293-351-30	**6NPY9**	
IP65, Spherical Anvil						
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	395-371-30	**4CGG5**	
IP65 QuantuMike						
0 to 1"/0 to 25mm	Ratchet	No	Mitutoyo	293-185-30	**2NXD5**	
	Ratchet	Yes	Mitutoyo	293-180-30	**2NXD3**	
1 to 2"/25 to 50mm	Ratchet	No	Mitutoyo	293-186-30	**2NXD6**	
IP67						
0 to 1"/0 to 25mm	Friction	No	Starrett	796.1XFL-1	**2ZTX2**	†
	Ratchet	No	Starrett	796.1XRL-1	**2ZTX6**	†
	Ratchet	Yes	Starrett	795.1XRL-1	**2ZTX4**	†
Micrometer Heads						
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	350-351-30	**4CGH8**	
Non-Rotating Spindle						
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	406-350-30	**6NPZ4**	
Screw Thread						
0 to 1"/0 to 25mm	Friction	Yes	Starrett	760FL	**5UAA1**	
Sheet Metal						
0 to 1"/0 to 25mm	Friction	Yes	Starrett	764BXFL	**5TZY7**	
Spherical Face						
0 to 1"/0 to 25mm	Ratchet	Yes	Mitutoyo	395-351-30	**6NPZ2**	
Tube						
0 to 1"/0 to 25mm	Friction	Yes	Starrett	769AXFL	**6NAZ0**	
	Ratchet	Yes	Mitutoyo	395-364-30	**6NPZ3**	
Uni-Mike						
0 to 1"/0 to 25mm	Friction	Yes	Mitutoyo	317-351-30	**6NPZ0**	

Range	Thimble	SPC Output*	Brand	Mfr. Model	Item No.
Mechanical 0.001" Resolution					
1 to 2"	Ratchet	No	Starrett	T2XRL	**6NAY0**
Interchangeable Anvil					
0 to 1"	Ratchet	No	Starrett	220XRL-1	**5TZY2**
2 to 6"	Ratchet	No	Starrett	224ARLZ	**5TZX9**
Sheet Metal					
0 to 1"	Ratchet	No	Starrett	222AXR-1	**5TZY5**
Mechanical 0.001mm Resolution					
0 to 1"/0 to 25mm	Ratchet	No	Starrett	V230MXRL	**6NAW7**
Mechanical Digital " Resolution					
0 to 1"	Ratchet	No	Westward	—	**4KU87**
Mechanical Digital 0.0001" Resolution					
0 to 1"	Friction	No	Mitutoyo	193-211	**5C690**
	Ratchet	—	Starrett	T216XRL-1	**2ZTY7**
1 to 2"	Friction	No	Mitutoyo	193-212	**5C691**
	Ratchet	No	Westward	—	**4KU88**
Spherical Anvil					
0 to 1"	Ratchet	No	Mitutoyo	295-253	**1ARD9**
	Ratchet	No	Mitutoyo	295-153	**1ARD8**
Mechanical Digital 0.001mm Resolution					
0 to 25mm	Ratchet	No	Mitutoyo	193-111	**6NPZ8**

Range (in./mm)	Thimble	Brand	Mfr. Model	Item No.
Vernier 0.01mm Resolution				
0 to 25mm	Ratchet	Mitutoyo	103-137	**5C678**
Vernier 0.001" Resolution				
0 to 1"	Ratchet	Westward	—	**2YNA1**
	Ratchet	Starrett	436.1XRL-1	**2ZTZ6**
	Ratchet	Mitutoyo	103-259	**5C687**
1 to 2"	Ratchet	Starrett	436.1XRL-2	**2ZTZ8**
	Ratchet	Mitutoyo	103-178	**5C681**
2 to 3"	Ratchet	Mitutoyo	103-179	**5C682**
3 to 4"	Ratchet	Mitutoyo	103-180	**4CGC7**
Blade Anvil				
2 to 3"	Plain	Starrett	486P-3	**5TZZ1**
3 to 4"	Plain	Starrett	486P-4	**5TZZ2**
4 to 5"	Plain	Starrett	486P-5	**5TZZ3**
5 to 6"	Plain	Starrett	486P-6	**5TZZ4**
Disk Anvil				
0 to 1"	Ratchet	Mitutoyo	223-125	**4CGF5**
Steel Point				
0 to 1"	Ratchet	Mitutoyo	112-225	**4CGD8**
Tube				
0 to 1"	Plain	Starrett	569AXP	**2ZTZ2**
Vernier 0.0001" Resolution				
0 to 1"	Friction	Westward	—	**4KU90**
	Friction	Starrett	T436.1XFL-1	**2ZTZ7**
	Friction	Mitutoyo	103-135	**5C677**
	Ratchet	Starrett	T230XRL	**2ZTX8**
	Ratchet	Mitutoyo	103-260	**5C688**
1 to 2"	Ratchet	Mitutoyo	103-262	**5C689**
2 to 3"	Friction	Starrett	T436.1XFL-3	**2ZUA2**
	Ratchet	Mitutoyo	103-217	**5C683**
3 to 4"	Ratchet	Mitutoyo	103-218	**5C684**
4 to 5"	Ratchet	Mitutoyo	103-219	**5C685**
5 to 6"	Ratchet	Mitutoyo	103-220	**5C686**
6 to 7"	Ratchet	Mitutoyo	103-221	**4CGC8**
Blade Spindle				
0 to 1"	Ratchet	Mitutoyo	122-125	**4CGE6**
	Ratchet	Mitutoyo	122-151	**4CGE7**
Spherical Anvil				
0 to 1"	Ratchet	Mitutoyo	115-153	**4CGE2**
Uni-Mike				
0 to 1"	Friction	Mitutoyo	117-107	**4CGE5**

*† Certificate of Calibration. * SPC output cables sold on page 2328.*

Electronic
No. 4LA77



Vernier
No. 5UAV2



WESTWARD Mitutoyo Starrett®

Outside Micrometer Sets

Electronic IP65—Include standards and spanner wrench. Positive locking clamp. SPC output.

Vernier—Include standards, spanner wrench, and case.

Range	Thimble	Brand	Mfr. Model	Item No.
Electronic IP65, 0.00005"/0.001mm Resolution				
0 to 3"/0 to 76mm	Ratchet	Mitutoyo	293-960-30	**4LA77**
0 to 4"/0 to 101mm	Ratchet	Mitutoyo	293-961-30	**4CGG3**
Vernier, 0.0001" Resolution				
0 to 3"	Friction/Ratchet	Mitutoyo	103-922	**5C673**
	Friction/Ratchet	Westward	—	**4KU86**
	Friction	Starrett	ST436.1AXFLZ	**2ZUA6**
	Ratchet	Starrett	ST436.1AXRLZ	**5UAV2**
0 to 6"	Friction/Ratchet	Mitutoyo	103-907-40	**1MDW5**
0 to 12"	Friction/Ratchet	Mitutoyo	103-908-40	**4CGD4**
6 to 12"	Ratchet	Mitutoyo	103-909	**4CGD5**
Vernier, 0.001" Resolution				
0 to 3"	Ratchet	Mitutoyo	103-929	**4CGD1**
0 to 4"	Ratchet	Mitutoyo	103-930	**5C674**
	Ratchet	Westward	—	**2YNC1**
0 to 6"	Friction/Ratchet	Westward	—	**2YNC2**
	Ratchet	Starrett	S436.1CXRLZ	**2ZUA8**
0 to 12"	Ratchet	Starrett	S436EXRLZ	**5UAA4**
6 to 12"	Ratchet	Starrett	S436DXRLZ	**5UAA5**
12 to 24"	Ratchet	Starrett	S436FXRLZ	**5UAA6**

Description	Brand	Mfr. Model	Item No.
Micrometer Stands			
For Use with Micrometers up to 4"	Mitutoyo	156-101-10	**4CGH2**
For Use with 1" Outside Micrometers	Starrett	3206	**5UAA3**

Rod,
No. 5UAC2



Soild Rod,
No. 2ZUC4





Starrett® Mitutoyo

Inside Micrometers

Use these micrometers for measuring taper, out of round, bell mouth, and barrel. Positive-locking nut. Coiled, spring-pressure, contact-type rods are marked with appropriate lengths. Include adjustment wrenches and storage case.

Range	Movement of Screw	No. of Measuring Rods	No. of Gauges	Anvil	Brand	Mfr. Model	Item No.
Rod, 0.001" Resolution							
0.2 to 1.2"	1"	1	1	Curved	Starrett	700A	**5UAC1**
1 to 2"	1"	1	1	Flat	Starrett	700B	**5UAC2**
Solid Rod, 0.001" Resolution							
2 to 8"	½"	3	1	Flat	Mitutoyo	141-208	**4LA57**
	½"	6	1	Curved	Starrett	124AZ	**2ZUC4**
2 to 12"	½"	5	1	Flat	Mitutoyo	141-233	**4LA58**
	½"	10	1	Curved	Starrett	124BZ	**2ZUC5**
8 to 32"	½"	6	1	Flat	Starrett	124CZ	**5UAA8**
Tubular Rod, 0.001" Resolution							
1½ to 8"	½"	5	—	Curved	Starrett	823AZ	**2ZUC6**
1½ to 12"	½"	8	—	Curved	Starrett	823BZ	**2ZUC7**
1.5 to 12"	½"	8	1	Curved	Mitutoyo	139-201	**4LA56**
4 to 24"	1"	7	1	Flat	Starrett	823CZ	**5UAA9**
4 to 32"	1"	8	1	Curved	Starrett	823DZ	**5UAC0**
4 to 40"	1"	10	—	Curved	Mitutoyo	139-202	**4CGT7**
	1"	10	—	Curved	Starrett	823EZ	**2ZUC8**
6 to 78"	2"	6	1	Curved	Starrett	128AZ	**5UAA7**



Receiver
No. 5RCE8



SPC Mini Processor
No. 4CGX4

Mitutoyo

SPC Wireless System, Connecting Cables and Interface Adapter

For interfacing wireless digital measuring tools to a PC. No. 4CGX4 Mini Processor can print measurement data from digimatic gages or perform statistical analysis, has RS-232C output and GO/NG judgment output. U-Wave wireless system requires no transmission cables. SPC Cable No. 1ARA4 is 6-pin.

Description	L (in.)	For Use With	Mfr. Model	Item No.
U-Wave Wireless System				
Receiver	5½	U-Wave Wireless System for SPC Data Transfer	02AZD810D	**5RCE8**
Transmitter	1¾	U-Wave Wireless System for SPC Data Transfer	02AZD730G	**5RCE9**
Connecting Cable A	6	No. 5RCE9	02AZD790A	**5RCF0**
Connecting Cable B	6	No. 5RCE9	02AZD790B	**5RCF1**
Connecting Cable C	6	Mfr. No. 02AZD730D	02AZD790C	**5RCF2**
Adapter and Processor				
SPC Mini Processor		Mitutoyo Digimatic Output Tools	264-505A	**4CGX4**
Input Tool For RS-232C Computer Port		Digimatic Tools	264-007	**6NRF7**

For Use With	L (in.)	Mfr. Model	Item No.
SPC Cables			
Mic Heads 164 Series, Digimatic Holtest 468 Series, Boremetic 568 Series	80	965013	**1ARA4**
Digimatic Indicator 543 IDF Series	40	936937	**1ZRN9**
Height Gage 570 Series, Digimatic Indicator 543 and 575 Series, Digimatic Scale Unit 572 Series	40	905338	**1ZRN7**
	80	905409	**1ZRN8**
SPC Cables w/Data Out Switch			
IP66/67 Calipers	40	05CZA624	**1ARA6**
IP65 Micrometers	40	05CZA662	**1ARA8**
	80	05CZA663	**1ARA9**
Digimatic Indicator 543 and 575 Series, Digimatic Scale Unit 572 Series, Digimatic Absolute Calipers	80	959150	**1ARA3**
Height Gage 570 Series, Digimatic Indicator 543 and 575 Series, Digimatic Scale Unit 572 Series, Digimatic Absolute Calipers	40	959149	**1ARA2**



Depth Micrometer, Vernier
No. 5C724



Depth Micrometer, Vernier w/Half Base
No. 5UAH1



Depth Micrometer, Digital
No. 4KY22



Depth Gage, Dial
No. 2ZUH1

Starrett® Mitutoyo WESTWARD®

Depth Micrometers and Gages

DEPTH MICROMETERS

Vernier—Ratchet thimble. Westward units have locking clamps. Starrett units include spanner. All include case.

Dial—Analog dial features rotating bezel and easy-to-read graduations. Has spring-loaded thimble.

Digital—Automatic shutoff and ratchet thimble. No. 4GPY7 has push-button controls with zero set and data hold functions. No. 4KY22 is fluid resistant.

DEPTH GAGES

Dial—Analog dial features rotating bezel and easy-to-read graduations.

Digital—No. 2YNK3 features English/Metric/Fractions.

Electronic—Include fitted case and battery.

Range	Resolution (in./mm)	Base Length	No. of Measuring Rods	Brand	Mfr. Model	Item No.
Depth Micrometers						
Vernier						
0 to 3"	0.001	2½"	3	Starrett	440Z-3RL	**2ZUC9**
	0.001	2½"	3	Starrett	440Z-3L	**6NAX9**
	0.001	3"	3	Starrett	445AZ-3RL	**2ZUD2**
0 to 4"	0.001/0.01	2½"	4	Mitutoyo	129-127	**5C722**
	0.001/0.01	4"	4	Mitutoyo	129-131	**4CGH3**
0 to 6"	0.001/0.01	2½"	6	Mitutoyo	129-128	**5C723**
	0.001	2½"	6	Starrett	440Z-6RL	**2ZUD1**
	0.001	3"	6	Starrett	446AZ-6RL	**2ZUD4**
	0.001/0.01	4"	6	Mitutoyo	129-132	**5C724**
	0.001	4"	6	Starrett	445BZ-6RL	**2ZUD3**
0 to 9"	0.001	2½"	9	Starrett	440Z-9RL	**5UAV4**
	0.001	4"	9	Starrett	445BZ-9RL	**5UAG9**
0 to 12"	0.001/0.01	4"	12	Mitutoyo	129-150	**4CGH4**
Vernier w/Half Base						
0 to 3"	0.001	2"	3	Starrett	443Z-3RL	**5UAH1**
0 to 6"	0.001	2"	6	Starrett	443Z-6RL	**5UAH2**
Vernier, Nonrotating						
0 to 3"	0.001	2½"	3	Starrett	449AZ-3R	**5UAH3**
0 to 6"	0.001	4"	6	Starrett	449BZ-6R	**5UAH4**
Dial						
0 to 22"	0.001	4"	6	Westward	—	**4KY23**
Digital						
0 to 6"/0 to 150mm	0.00005/0.001	4"	6	Westward	—	**4KY22**
Digital w/SPC Output						
0 to 6"	0.00005/0.001	4"	6	Mitutoyo	329-350-30	**4GPY7**
0 to 6"/0 to 150mm	0.0001/0.001	4"	6	Starrett	749BZ-6RL	**5UAG7**
0 to 12"	0.00005/0.001	4"	12	Mitutoyo	329-351-30	**4CGH7**
0 to 12"/0 to 300mm	0.0001/0.001	4"	12	Starrett	749BZ-12RL	**5UAG8**
Depth Gages						
Vernier						
0-300mm	0.02	4"	1	Mitutoyo	527-103	**16X248**
Dial						
0 to 0.125"	0.0005	2½"	1	Starrett	643JZ	**2ZUH1**
0 to 3"	0.001	2½"	1	Starrett	644JZ	**2ZUH2**
0 to 6"	0.001/0.05	100mm	1	Mitutoyo	527-311-50	**4CGV5**
0 to 12"	0.001/0.05	100mm	1	Mitutoyo	527-313-50	**4CGV6**
Digital						
0 to 6"/0 to 150mm	0.0005/0.01	2"	5	Westward	—	**2YNK3**
Electronic						
0 to 6"/0 to 150mm	0.00005/0.001	2¾"	1	Starrett	3753A-6/150	**2ZUH3**
0 to 8"	0.0005/0.01	2½"	4	Mitutoyo	547-217S	**4CGV7**
Electronic w/SPC Output						
0 to 6"	0.0005/0.01	3.93"	1	Mitutoyo	571-211-30	**4CGV8**
0 to 8"	0.00005/0.001	2½"	4	Mitutoyo	547-257S	**6NRD0**
	0.0005/0.01	3.93"	1	Mitutoyo	571-212-30	**4CGV9**
0 to 8"/0 to 200mm	0.0005/0.01	2¾"	1	Starrett	3753A-8/200	**5UAG2**
0 to 12"	0.0005/0.01	3.93"	1	Mitutoyo	571-213-10	**4CGW1**
0 to 12"/0 to 300mm	0.0005/0.01	2¾"	1	Starrett	3753A-12/300	**5UAG3**
0 to 24"/0 to 600mm	0.0005/0.01	4"	1	Starrett	5004BZ-24/600	**5UAG6**



Standard w/Depth Gage



Snub Nose

Starrett®

Can Seam Micrometers

▪ Resolution: 0.001" Friction thimble and rounded anvil. Include soft case.

Description	Range	Mfr. Model	Item No.
Standard	0 to 0.375"	208Z	**4CEP8**
Standard w/Depth Gage	0 to 0.375" Micrometer/0.200" Depth	208DZ	**4CEP7**
Snub Nose	0 to 0.375"	207Z	**4CEP6**



Parallel Set
No. 35MG52



Adjustable Jack Screw
No. 19F410

PALMGREN INC

Parallel Sets and Jack Screws

Parallel Sets—Parallel sets are precision ground and hardened from HTC 50° to HRC 55°.

Jack Screws—Use for positioning and moving with drill presses, milling machines, grinders, and CNC machines.

No. of Pieces	Size	Includes	Item No.
Parallel Sets			
8	8"	Storage Box, (2) .315" X .945", (2) .472" X 1.417", (2) .866" X 1.575", (2) Position Clamps	**35MG54**
18	6"	Storage Box, (2) .335" x .551", (2) .335" x .630", (2) .335" x .737", (2) .335" x .945", (2) .335" x 1.181", (2) .335" x 1.260", (2) .335" x 1.417", (2) .335" x 1.575", (2) .335" x 1.732"	**35MG53**
18	4", 6"	Storage box	**35MG52**

Description	H (in.)	Dia.	Item No.
Jack Screws			
Adjustable	1.69 to 2.40	1.969	**19F410**
	2.55 to 3.15	1.496	**19F411**
	3.15 to 5.63	2.008	**19F412**
	4.92 to 9.45	2.126	**19F413**
Magnetic	2.55 to 3.34	1 49/64"	**35MG59**
	3.34 to 4.33	1 49/64"	**35MG60**
	4.33 to 6.49	1 31/32"	**35MG61**



Adjustable
No. 2ZUY1



Solid
No. 5TZU3

Starrett® Mitutoyo brown & sharpe

Adjustable and Solid Parallels

Allow operator to measure slot widths.

Measuring Range (in.)	No. of Pairs	L (in.)	W (in.)	Parallelism (in.)	Brand	Mfr. Model	Item No.
Adjustable							
⅜ to 1 5/16	4	1¾ to 3 3/16	5/16	±0.001	Starrett	S154SZ	**4CEP5**
⅜ to 2¼	6	1⅝ to 4⅞	5/16	±0.001	Mitutoyo	985-131	**1ARY8**
	6	1¾ to 5 1/16	9/32	±0.0001	Starrett	S154LZ	**2ZUY1**
1 5/16 to 1¾	1	4 3/16	5/16	±0.001	Starrett	154E	**4CEP3**
1¾ to 2¼	1	5 1/16	5/16	±0.001	Starrett	154F	**4CEP4**
Solid							
½ to 1⅜	10	6	⅛	±0.0002	Tesa Brown & Sharpe	599-921-10	**5TZU3**


No. 2ZUG8


No. 2YND4

TESA TECHNOLOGY | brown & sharpe

Starrett® WESTWARD Mitutoyo

Electronic and Dial Height Gages

Electronic Digital—Functions include inch/metric conversion, automatic On/Off, zero set, and hold. Include scriber. All have SPC output except No. 2ZUG7. SPC cables sold separately, see page 2328.

Construc.	Range	Accuracy	Display	Res.	Brand	Mfr. Model	Item No.
Electronic Digital Counter Type							
Aluminum, Steel	0 to 24"/0 to 600mm	±(2.4+2.1L/600)Micrometer L	LCD	0.001mm, 0.0005mm, 0.00005", 0.0001"	Mitutoyo	64PKA130B	**35GU96**
Glass Scale	0" to 6.3" / 0 to 160mm	0.00005"	Control Panel	0.00001, 0.0001" / 0.0001, 0.001mm Resolution	Tesa Brown & Sharpe	00730049	**20HX84**
Hardened Stainless Steel	0 to 12"/0 to 300mm	±0.0015"	LCD	0.0005"/0.01mm	Starrett	3754-12/300	**2ZUG8**
	0 to 6"/0 to 150mm	±0.001"	LCD	0.0005"/0.01mm	Starrett	3751AZ-6/150	**2ZUG7**
Spheroidal Cast Iron	0 to 14"/0 to 365mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730073	**462H43**
	0 to 24"/0 to 615mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730074	**462H44**
	0 to 36"/0 to 920mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730075	**462H45**
Spheroidal Cast Iron, Glass Scale	0 to 14"/0 to 365mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730076	**54VL05**
	0 to 14"/0 to 365mm	±(1.8+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730079	**54VL08**
	0 to 24"/0 to 615mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730077	**54VL06**
	0 to 24"/0 to 615mm	±(1.8+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730080	**54VL09**
	0 to 36"/0 to 920mm	±(1.8+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730081	**54VL10**
	0 to 36"/0 to 920mm	±(2+2 x L/1000)Micrometer L	Touch Screen	0.1/0.001/0.0001mm	Tesa Brown & Sharpe	00730078	**54VL07**
Steel	0 to 12"/0 to 300mm	±0.001"	LCD	0.0005"/0.01mm	Mitutoyo	192-630-10	**33RK45**
	0 to 12"/0 to 300mm	±0.0015"	LCD	0.0005"/0.01mm	Westward	—	**2YND4**
	0 to 12"/0 to 300mm	±0.0015"	LCD	0.0005"/0.01mm	Mitutoyo	570-312	**4LA96**
	0 to 18"/0 to 450mm	±0.002"	LCD	0.0005"/0.01mm	Westward	—	**2YND5**
	0 to 18"/0 to 450mm	±0.002"	LCD	0.0005"/0.01mm	Mitutoyo	570-313	**4LA97**
	0 to 24"/0 to 600mm	±0.002"	LCD	0.0005"/0.01mm	Mitutoyo	570-314	**4LA98**

Description	Features	Brand	Mfr. Model	Item No.
Accessories				
Control Panel	For Micro-Hite	Tesa Brown & Sharpe	00760233	**54VL11**
	For Micro-Hite +M	Tesa Brown & Sharpe	00760234	**54VL12**
USB Printer	For Micro-Hite	Tesa Brown & Sharpe	00760235	**54VL13**
Probe Holder	For Micro-Hite +M	Tesa Brown & Sharpe	00760243	**54VL15**
Dust Cover	350mm	Tesa Brown & Sharpe	00760151	**54VL16**
	600mm	Tesa Brown & Sharpe	00760152	**54VL17**
	900mm	Tesa Brown & Sharpe	00760153	**54VL18**
Stone Cleaner	1L	Tesa Brown & Sharpe	00760249	**54VL19**
Battery Pack	For Micro-Hite, Rechargeable, Interchangeable	Tesa Brown & Sharpe	00760244	**54VL20**
Fine Adjustment System	For Micro-Hite	Tesa Brown & Sharpe	00760246	**54VL22**
Power Supply	For Micro-Hite	Tesa Brown & Sharpe	00760251	**54VL21**
Height Gage Required Accessory for No. 20HX87	Power Panel Plus M with Built-in Printer for MICRO-HITE Plus M Motorized Height Gages	Tesa Brown & Sharpe	00760220	**20HX89**
Height Transfer/Squareness Gauge	Low-Center-of-Gravity Base	Tesa Brown & Sharpe	599-585-1	**20HY13**


No. 4LB17

WESTWARD Starrett® Mitutoyo

Machinist Tool Kits

- Cases included

No. of Pieces	Description	Micrometer Range (in./mm)	Micrometer Res. (in./mm)	Thimble	Caliper Range (in./mm)	Caliper Res. (in./mm)	Range per Revolution (in.)	Brand	Mfr. Model	Item No.
Precision Measuring Tool Kits										
2	Electronic Depth Micrometer/Poly Caliper	0 to 6"/0 to 150mm	0.0005"/0.01mm	Friction	0 to 6/0 to 150	0.0005"/0.01mm	—	Westward	—	**2YNK4**
	Electronic Micrometer/Caliper	0 to 1"	0.00005"/0.001mm	Friction	0 to 6/0 to 150	0.0005"/0.01mm	—	Starrett	S766AZ	**2ZUN6**
		0 to 1"/0 to 25mm	0.00005"/0.001mm	Friction	0 to 6/0 to 150	0.0005"/0.01mm	—	Mitutoyo	64PKA077B	**1ARY4**
		0 to 1"/0 to 25mm	0.00005"/0.001mm	Ratchet	0 to 6/0 to 150	0.0005"/0.01mm	—	Mitutoyo	64PKA076B	**1ZRV5**
3	Micrometer/Dial Caliper/Rule	0 to 1"	0.0001"	Friction	0 to 6/0 to 150	0.001"	0.100	Westward	—	**4KU85**
		0 to 1"	0.0001"	Ratchet	0 to 6/0 to 150	0.001"	0.100	Starrett	S909Z	**2ZUN7**
		0 to 25mm	0.001mm	Ratchet	0 to 6/0 to 150	0.02mm	—	Starrett	S909MZ	**5UAN2**
4	Micrometer/Dial Caliper/Depth Micrometer/Rule	0 to 1"	0.0001"	Friction	0 to 6/0 to 150	0.001"	0.100	Mitutoyo	64PKA070A	**4LB17**

No. of Pieces	Includes	Brand	Mfr. Model	Item No.
Crankshaft Distortion Gage				
7	10 Rods, Sharp Points, Balancing Attachment, Case	Starrett	696Z	**6NAZ5**

WESTWARD brown & sharpe Mitutoyo Starrett®

Dial Indicators

- Include lug-on-center back
- Conform to American Gage Design (AGD) standards

If tolerances are bilateral, a balanced dial is preferred. If tolerance is unilateral, a continuous dial is preferred.

Mitutoyo—Stainless steel stem. Glare-free crystal has scratch resistant coating. Nos. 4CGP7, 5C706, 4CGP5, 1ARD3, and 4CGR1 include jeweled bearing. No. 1ARD1 features flat back.

Starrett—Feature jeweled bearings. Hardened steel neck with knurled bezel. All have white dial except Nos. 2ZUJ1 and 2ZUJ2 which have yellow dial.

Brown & Sharpe—These indicators feature revolution counter, tolerance pointers, and ball contact points.

Westward—Feature revolution counter hand and adjustable tolerance limit marker. Knurled bezel and hardened stainless steel rack. No. 6XU93 comes with 25-lb. pull magnetic back.



Balanced Reading No. 2ZUH4



Continuous Reading No. 4CGP5

Range	Graduations	Dial Size	Dial Reading	Range per Revolution	Brand	Item No.	
Balanced Reading							
AGD 1							
0 to 0.035"	0.0005"	2.250"	0-20-0	0.350"	Tesa Brown & Sharpe	**45JK43**	
	0.0010"	2.250"	0-50-0	0.350"	Tesa Brown & Sharpe	**45JK42**	
	0.0010"	2.250"	0-20-0	0.350"	Tesa Brown & Sharpe	**45JK44**	
0 to 0.050"	0.0005"	1.688"	0-5-0	0.050"	Tesa Brown & Sharpe	**45JK36**	
	0.0010"	1.688"	0-5-0	0.050"	Tesa Brown & Sharpe	**45JK34**	
0 to 0.140"	0.0010"	1.500"	0-25-0	0.140"	Tesa Brown & Sharpe	**45JK49**	
0 to 0.200"	0.0005"	2.250"	0-5-0	0.200"	Tesa Brown & Sharpe	**45JK37**	
0 to 0.250"	0.0005"	1.688"	0-50-0	0.250"	Tesa Brown & Sharpe	**45JK41**	
	0.0005"	1.688"	0-25-0	0.250"	Tesa Brown & Sharpe	**45JK38**	
	0.0010"	1.688"	0-50-0	0.250"	Tesa Brown & Sharpe	**45JK40**	
	0.0010"	1.570"	0-50-0	0.100"	Mitutoyo	**6NRA5**	*
	0.0010"	1.687"	0-50-0	0.100"	Starrett	**2ZUH4**	
	0.0010"	1.688"	0-20-0	0.250"	Tesa Brown & Sharpe	**45JK39**	
AGD 2							
0 to 0.025"	0.0001"	2.240"	0-5-0	0.010"	Mitutoyo	**6NRA7**	
0 to 0.050"	0.0001"	2.240"	0-5-0	0.010"	Mitutoyo	**6NRA9**	
0 to 0.16mm	0.001mm	2.240"	80-0-80	0.16mm	Mitutoyo	**6NRC2**	
0 to 0.200"	0.0001"	2.250"	0-5-0	0.010"	Starrett	**4CER5**	
0 to 0.250"	0.0010"	2.250"	0-50-0	0.100"	Starrett	**4CEP9**	
0 to 0.500"	0.0010"	2.250"	0-50-0	0.100"	Starrett	**2ZUH7**	
0 to 0.8mm	0.01mm	2.400"	40-0-40	0.8mm	Mitutoyo	**16X238**	
0 to 1"	0.0005"	2.250"	0-50-0	0.050"	Starrett	**4CER7**	
	0.0010"	2.240"	0-50-0	0.100"	Mitutoyo	**6NRC1**	*
0 to 1mm	0.001mm	2.240"	0-100-0	0.2mm	Mitutoyo	**6NRC3**	
	0.001mm	2.400"	0-100-0	0.2mm	Mitutoyo	**16X236**	
Continuous Reading							
0 to 0.200"	0.0010"	1½"	0-100	0.100"	Starrett	**6NAZ3**	*
1.000"	0.001"	2½"	0-100	0.1000"	Westward	**6XU93**	
AGD 1							
0 to 0.125"	0.0010"	1.687"	0-50	0.050"	Starrett	**6NAW9**	
0 to 0.250"	0.0010"	1.570"	0-100	0.100"	Mitutoyo	**1AR81**	*
	0.0010"	1.570"	0-100	0.100"	Mitutoyo	**6NRA4**	
	0.0010"	1.687"	0-100	0.100"	Starrett	**2ZUH5**	
0 to 1"	0.0001"	2.250"	0-100	1"	Tesa Brown & Sharpe	**45JK48**	
	0.0005"	2.250"	0-100	1"	Tesa Brown & Sharpe	**45JK46**	
AGD 2							
0 to 0.025"	0.0001"	2.250"	0-10	0.010"	Starrett	**2ZUH6**	
0 to 0.050"	0.0001"	2.240"	0-10	0.010"	Mitutoyo	**4CGP7**	
0 to 0.200"	0.0001"	2.250"	0-10	0.010"	Starrett	**4CER6**	
	0.0010"	1.450"	0-100	0.100"	Starrett	**6NAY6**	
0 to 0.250"	0.0010"	2.250"	0-100	0.100"	Starrett	**5UAU9**	
0 to 0.500"	0.0001"	2.130"	0-10	0.010"	Mitutoyo	**5C706**	
	0.0010"	2.250"	0-100	0.100"	Starrett	**2ZUH8**	
0 to 1"	0.0005"	2.240"	0-50	0.050"	Mitutoyo	**4CGP6**	*
	0.0010"	2.250"	0-100	0.100"	Mitutoyo	**2HB36**	*
	0.0010"	2.240"	0-100	0.100"	Mitutoyo	**4CGP5**	
	0.0010"	2.240"	0-100	0.100"	Mitutoyo	**5RCG1**	
	0.0010"	2.250"	0-100	0.100"	Starrett	**2ZUH9**	
	0.0010"	2.250"	0-50-0	0.100"	Starrett	**4CER3**	
	0.0010"	2.240"	100-0	0.100"	Mitutoyo	**4CGP8**	*
0 to 2"	0.0010"	2.190"	0-100	0.100"	Mitutoyo	**1ARD3**	
	0.0010"	2.250"	0-100	0.100"	Starrett	**4CER1**	
0 to 3"	0.0010"	2.250"	0-100	0.100"	Starrett	**4CER2**	
0 to 4"	0.0010"	2.250"	0-100	0.100"	Starrett	**4CER4**	
0 to 10mm	0.01mm	57mm	0-100	1mm	Mitutoyo	**16X231**	†
	0.01mm	57mm	0-100	1mm	Mitutoyo	**1AR89**	*
	0.01mm	57mm	0-100	1mm	Mitutoyo	**6NRC5**	*
	0.01mm	2.250"	0-100	1mm	Starrett	**2ZUJ1**	
0 to 20mm	0.01mm	57mm	0-100	1mm	Mitutoyo	**16X233**	†
	0.01mm	57mm	0-100	1mm	Mitutoyo	**1ARD1**	*
0 to 25mm	0.01mm	2.250"	0-100	1mm	Starrett	**2ZUJ2**	
0 to 50mm	0.01mm	2.250"	0-100	1mm	Starrett	**5UAJ3**	
AGD 3							
0 to 1"	0.0010"	3.070"	±0-100	0.100"	Mitutoyo	**4CGP9**	*
AGD 4							
0 to 3"	0.0010"	3.620"	±0-100	0.100"	Mitutoyo	**4CGR1**	

**** Non-jeweled bearing. † Metric with 3-8" stem.***

WESTWARD Mitutoyo

Electronic Indicators

- ⅜" stems
- Include battery

Features include LCD display, in./mm conversion, hold function, zero set, and power On/Off.

WESTWARD

Feature lug-on-center back.

MITUTOYO

Digimatic indicators have absolute linear encoders. SPC output. Feature change counting direction. Flat back except Nos. 4GPX9, 4GPY2, 1ARJ6, and 1ARJ7.

ID-C Series—Feature GO/±NG judgment. 330° rotating bezel.

ID-S Series—Unlimited response speed. No. 1ARJ6 includes a lug on back. No. 1ARJ7 features absolute encoder scale, change counting direction feature, and output port dust cap.

ID-U Series—Slim package design for easy mounting.



Westward No. 2YNK1



ID-C Series No. 6NRA1



ID-S Series No. 5C711



ID-U Series No. 1ARU1

Range	Accuracy	Resolution	Mfr. Model	Item No.
Westward				
0.500"/12.7mm	0.0005"	0.0005"/0.0100mm	—	**2YNE4**
1"/25mm	0.001"	0.0005"/0.0100mm	—	**2YNK1**
Mitutoyo				
ID-C Series				
0.500"/12.7mm	0.0001"	0.00005" / 0.0001" / 0.0005" / 0.001mm / 0.01mm	543-392	**4GPX9**
0.00005" / 0.0001" / 0.0005" / 0.001mm / 0.01mm	0.001"	.0005"/0.01mm	543-402	**4GPY2**
	0.001"	.0005"/0.01mm	543-402B	**4GPY3**
	0.003mm	0.01mm	543-390B	**6NRA1**
	0.0001"	.00005"/0.001mm	543-392B	**4GPY1**
1"/25mm	0.001"	0.0005"/0.0100mm	543-476B	**4GPY4**
1" / 25.4mm	0.0001"	.00005"/0.001mm	543-472B	**4GPY5**
2"/50mm	0.0002"	0.00005" / 0.0001" / 0.0005" / 0.001mm / 0.01mm	543-492B	**4GPY6**
	0.0016"	0.0005"/0.01mm	543-496B	**6NRA2**
ID-S Series				
0.500"/12.7mm	0.0008"	.0005"/0.01mm	543-783	**1ARJ6**
	0.0008"	.0005"/0.01mm	543-783B	**5C711**
	0.00012"	0.0001"/0.001mm	543-793	**1ARJ7**
	0.00012"	.0001"/0.001mm	543-793B	**1ARJ8**
	0.00012"	0.00005"/0.001mm	543-792	**6NRA3**
ID-U Series				
1" / 25.4mm	0.0008"	.0005"/0.01mm	575-123	**1ARU1**


No. 5RCL1


No. 5UAL6


No. 4KU81




No. 1ZRT2



Dial Test Indicators and Sets

Comparative instruments check against known standards. Also use to zero-out set-ups.

BROWN & SHARPE

All models include 0.25" dia. extension with dovetail, point wrench, and certificate of accuracy. Nos. 5RCH0 and 5RCH1 also include universal dovetail mounting attachment.

MITUTOYO

Antimagnetic. No. 4CGR9 has ruby point. No. 4CGR4 has long point. No. 4CGR5 has 20° tilted face.

STARRETT

708 Series includes dovetail mounts and tool post holder. 709 Series has angled head. 711 Series includes universal shank with long and short arm, and body clamp. 196 Series has universal back plunger. All include 3 contact points. Nos. 2ZUJ5, 5UAL6, and 5UAL5 include adapters. Nos. 5UAL5 and 5UAV0 include 4 attachments. No. 5UAV0 is antimagnetic.

WESTWARD

Includes 2 dovetails and case. Conforms to American Gage Design (AGD) standards.

Range	Graduations	Dial Reading	Dial Size	Color	Series	Brand	Mfr. Model	Item No.
Dial Test Indicators								
0 to 0.008"	0.00005"	0-4-0	1½"	Black w/Orange Hand	BesTest	Tesa Brown & Sharpe	599-7033-5	**5RCL2**
	0.0001"	0-4-0	1"	Black w/Orange Hand	BesTest	Tesa Brown & Sharpe	599-7032-5	**5RCL1**
	0.0001"	0-4-0	1"	White	BesTest	Tesa Brown & Sharpe	599-7032-3	**5RCH1**
	0.0001"	0-4-0	1½"	White	BesTest	Tesa Brown & Sharpe	599-7023-3	**5RCH0**
	0.0001"	0-4-0	1½"	White	513	Mitutoyo	513-403-10E	**5C705**
0 to 0.010"	0.0001"	0-5-0	1½"	White	708	Starrett	708AZ	**2ZUK1**
0 to 0.016"	0.0001"	0-4-0	1½"	White	Intrepid 312	Tesa Brown & Sharpe	312B-3	**5RCK8**
0 to 0.030"	0.0005"	0-15-0	1"	Black w/Orange Hand	BesTest	Tesa Brown & Sharpe	599-7030-5	**5RCK9**
	0.0005"	0-15-0	1½"	Black w/Orange Hand	BesTest	Tesa Brown & Sharpe	599-7031-5	**5RCL4**
	0.0005"	0-15-0	1½"	White	513	Mitutoyo	513-472-10E	**4CGR9**
	0.0005"	0-15-0	1½"	White	513	Mitutoyo	513-412-10E	**4CGR4**
	0.0005"	0-15-0	1½"	White	513	Mitutoyo	513-402-10E	**4LA91**
	0.0005"	0-15-0	1½"	White Half Shaded	711	Starrett	711HSAZ	**5UAV3**
	0.0005"	0-15-0	1½"	White	709	Starrett	709AZ	**2ZUK2**
	0.0005"	0-5-0	1.1"	Black	Value Line	Tesa Brown & Sharpe	01889018	**49U620**
	0.001"	0-15-0	1"	Black w/Orange Hand	BesTest	Tesa Brown & Sharpe	599-7029-5	**5RCL5**
	0.001"	0-15-0	1"	White	711	Starrett	711FSZ	**2ZUJ6**
0 to 0.060"	0.0005"	0-15-0	1¼"	White	Intrepid 312	Tesa Brown & Sharpe	312B-2	**5RCL0**
	0.0005"	0-15-0	1⅜"	White	709	Starrett	709BCZ	**2ZUK5**
	0.0005"	0-15-0	1½"	White	Intrepid 312	Tesa Brown & Sharpe	312B-1V	**5RCL3**
	0.0005"	0-15-0	1½"	White	Intrepid 312	Tesa Brown & Sharpe	74.111370	**5RCK7**
	0.0005"	0-15-0	1½"	White	513	Mitutoyo	513-442-10A	**4CGR5**
	0.001"	0-15-0	1⅜"	White	709	Starrett	709BZ	**6NAZ7**
0 to 0.200"	0.001"	0-100	1½"	White	196	Starrett	196B1	**2ZUJ5**
	0.001"	0-50-0	1½"	White	196	Starrett	196B5	**5UAL6**
	0.001"	0-50-0	1½"	White	196	Starrett	196A5Z	**5UAL5**
	0.0010"	0-100	1½"	White	196	Starrett	196A6Z	**5UAV0**
0 to 0.2mm	0.002mm	0-100-0	1.57"	—	515	Mitutoyo	513-405-10E	**4CGR2**
	0.002mm	0-100-0	1⅜"	Yellow	708M	Starrett	708MACZ	**6NAZ6**
0 to 0.8mm	0.01mm	0-40-0	1.57"	Yellow	513	Mitutoyo	513-404-10E	**16X244**
0 to 1.000"	0.001"	0-100	2¼"	White	—	Westward	—	**4KU81**

Range	Graduations	Dial Reading	Dial Size (in.)	Includes	Brand	Mfr. Model	Item No.
Dial Test Indicator Sets							
0 to 0.200"	0.001"	0-100	1.45	3 Contact Points, Adapter, Clamp, Tool Post Holder, Snug, Hole Attachment, Case	Starrett	196A1Z	**2ZUJ4**
0 to 0.040"	0.001"	0-20-0	1.30	Pocket-Style Indicator, 2 Stems, 3 Carbide Points, 2 Holding Bars, Swivel Clamp, Case	Mitutoyo	513-518T	**4CGT4**
0 to 0.030"	0.0005"	0-15-0	1.37	Dovetail Body Clamp, Tool Post Holder, Swivel Post Snug w/Dovetail Indicator Clamp, Snug and Rod Unit, Case	Starrett	709ACZ	**2ZUK4**
	0.0005"	0-15-0	1.00	3 Contact Points, Body Clamp, Universal Friction Holder w/Shank, Universal Shank w/Long and Short Arms, Height Gage, Surface Gage, and Double-Jointed Attachments, Coupling w/3/16" Hole, Case	Starrett	711LCSZ	**2ZUJ8**
	0.0005"	0-15-0	1.57	0.079" Carbide Contact Point, ⅜" Stem, Stem Nut, 0.039 and 0.118" Contact Points, 5/32" Swivel Clamp, Square Arm, Case	Mitutoyo	513-402-10T	**4LA92**
	0.0005"	0-15-0	1.57	0.039, 0.078, and 0.118" Contact Points, 5/32 and ⅜" Stems, Stem Nut, Swivel Clamp, Square Arm, Long Point, Plastic Case	Mitutoyo	513-412-10T	**1ZRT2**
	0.001"	0-15-0	1.00	3 Contact Points, Body Clamp, Universal Friction Holder w/Shank, Universal Shank w/Long and Short Arms, Height Gage, Surface Gage, and Double-Jointed Attachments, Coupling w/3/16" Hole, Case	Starrett	711GCSZ	**2ZUJ7**
	0.0005"	0-15-0	1.570	Indicator, 2 Stems, 3 Carbide Points, Holding Bar, Swivel Clamp, Case	Mitutoyo	513-406-10T	**4CGR3**
0 to 0.010"	0.0001"	0-5-0	1.37	Dovetail Body Clamp, Tool Post Holder, Swivel Post Snug w/Dovetail Indicator Clamp, Snug and Rod Unit, Case	Starrett	708ACZ	**2ZUK3**
	0.0001"	0-5-0	1.30	Indicator, 2 Stems, 3 Carbide Points, 2 Holding Bars, Swivel Clamp, Case	Mitutoyo	513-504T	**4CGT2**
0 to 0.008"	0.0001"	0-4-0	1.57	0.039, 0.078, and 0.118" Contact Points, 5/32 and ⅜" Stems, Stem Nut, Swivel Clamp, Square Arm, Plastic Case	Mitutoyo	513-403-10T	**1ZRT1**
0 to 0.2mm	0.002mm	0-100-0	40mm	Test Indicator, 1mm, 2mm and 3mm Carbide Point, 4mm and 8mm Stem, Clamp Ring, Holding Bar, Swivel Clamp, Case	Mitutoyo	513-405-10T	**16X246**
Accessory Set							
				Set of 14 Special Form Contact Points on Aluminum Ring	Starrett	25R	**2ZUJ3**
Set of 14 Special Form Contact Points on Aluminum Ring					Starrett	25R	**2ZUJ3**

Mitutoyo Starrett® WESTWARD

Magnetic Base and Dial Indicator Sets


No. 4KU71


No. 5C709

Range	Graduations	Dial Reading	Range per Revolution	Includes	Brand	Mfr. Model	Item No.
0 to 0.050"	0.0001"	0-10	0.010"	Dial Indicator and Magnetic Base with On/Off Switch	Mitutoyo	64PKA078	**5C708**
0 to 0.125"	0.0005"	0-25-0	0.050"	Indicator and Indicator Holding Attachment	Starrett	659BZ	**2ZUN1**
	0.0050"	0-25-0	0.050"	Indicator, Magnetic Base with Upright Post Assembly, and Wood Case	Starrett	657EZ	**2ZUL5**
0 to 0.500"	0.0001"	0-10	0.010"	AGD Indicator and Base	Westward	—	**2YND9**
0 to 1"	0.0005"	0-100	0.100"	Assembled Spindle Square with 2 Indicators	Starrett	649-5	**5UAT5**
	0.0010"	0-100	0.100"	No. 4KU81 Indicator and No. 4KU72 Magnetic Base	Westward	—	**4KU71**
	0.0010"	0-100	0.100"	Indicator and Universal Clamp	Westward	—	**2YNK2**
	0.0010"	0-100	0.100"	AGD Indicator, Base, and Case	Westward	—	**2YNE1**
	0.0010"	0-100	0.100"	Dial Indicator and Magnetic Base with On/Off Switch	Mitutoyo	64PKA079	**5C709**
	0.0010"	0-100	0.100"	Dial Indicator Mfr. Model 2416S, Magnetic Stand Mfr. Model 7010S, Plastic Case	Mitutoyo	64PKA075	**4LB18**
	0.0010"	0-100	0.100"	Assembled Spindle Square with 2 Indicators	Starrett	649-1	**5UAT4**
	0.0010"	0-100	0.100"	Gripping Plier Inspection Kit, Flex Arm, Case	Starrett	S898Z-1	**5UAL8**
	0.0010"	0-100	0.100"	Gripping Plier Inspection Kit, Flex Arm, Case, Magnetic Base	Starrett	S898Z-2	**5UAL9**

Starrett® WESTWARD
Mitutoyo NOGA SIMPLY SOPHISTICATED
brown & sharpe

Magnetic Bases, Stands and Holders


No. 2ZUL9


No. 4KY11

Features	Base Size (in.)	Rod Dia. (in.)	Upright Post Dia. (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Magnetic Bases							
Articulating Arm	1 3/16 W x 1 9/16 D x 1 3/8 H	—	—	7½	Starrett	660	**2ZUL7**
Base Post, Rod, 2 Snugs, Indicator Attachment	1 15/16 W x 1 5/8 D x 1 7/8 H	0.250	0.375	9½	Starrett	657AA	**2ZUL3**
Base Post, Rod, Snug	2 11/32x2 11/32x 1 13/16	0.390	0.470	9	Westward	—	**2YND8**
Base Post, Rod, Snug, Fine Adjustment	2-11/32W x 1-13/16H	0.390	0.470	2	Westward	—	**4KU72**
Base w/Post, Swivel Post Snug, Gage Holding Rod	1 15/16 W x 1 5/8 D x 1 7/8 H	0.375	0.375	9½	Starrett	657D	**2ZUL4**
Comparator w/Granite Base	8 W x 12 D x 2 H	—	1.500	9¼	Starrett	653G	**2ZUL8**
Flexible Post	1.97 W x 2.28 D x 2.17 H	0.394	0.472	—	Mitutoyo	7012-10	**6NRC6**
Flexible Post, Locking Lever, Snug, Fine Adjustment, Holding Rod	1 15/16 W x 1 5/8 D x 1 7/8 H	—	—	15	Starrett	657T	**2ZUL6**
Flexible Post, Rod, Snug, Fine Adjustment	2W x 2-1/2H	0.625	—	13½	Westward	—	**4KY11**
Heavy Holder w/Top Fine Adjustment	2 W x 23 51/64 L x 23 5/32 H	0.790	0.075	13	Noga	MG10533	**436L75**
Indicator Holding Attachment	2-1/2W x 2D x 2H	0.32	0.375	6½	Tesa Brown & Sharpe	01699123	**49U637**
Indicator Holding Attachment, Dial Test	2-1/2W x 2D x 2H	0.032	0.375	11	Tesa Brown & Sharpe	01699117	**49U636**
Large Holder w/Top Fine Adjustment	1 3/32 W x 4 23/32 L x 2 5/32 H	0.800	0.075	25	Noga	MA61003	**436L78**
Mechanical Locking System	1.97 X 2.36	—	—	16.97	Mitutoyo	7033B	**22N461**
Mini Holder w/Top & Bottom Fine Adjustment	1 3/16" W x 1 9/16" L x 1 3/8" H	0.440	0.075	8	Noga	NF6160	**436L77**
Mini Holder w/Top Fine Adjustment	1 35/32 W x 1 9/32 L x 1 35/64 H	0.440	0.075	5	Noga	NF1024	**436L79**
Post, Rod, Clamp, Fine Adjustment	1-31/32W x 2-23/64D x 2-5/32H	0.394	0.472	9¼	Mitutoyo	7011BN	**5C751**
Post, Rod, Universal Clamp	1-31/32W x 2-23/64D x 2-5/32H	0.394	0.472	9	Mitutoyo	7010S	**4LB12**
Post, Snug, Gage Rod w/Clamp, Thread Adapter	2 ½ W x 3 D x 2 1/8 H	0.750	0.750	11¾	Starrett	659A	**2ZUL9**
Push Button On/Off	1 15/16 W x 1 5/8 D x 1 7/8 H	—	—	—	Starrett	657P	**6NAZ4**
Rotary On/Off	2 1/2 W x 3 D x 2 1/8 H	—	—	—	Starrett	659P	**6NAW6**
Standard Holder w/Top & Bottom Fine Adjustment	2 W x 23 51/64 L x 23 5/32 H	0.540	0.075	13	Noga	DG6160	**436L76**
Standard Holder w/Top Fine Adjustment	2 W x 23 51/64 L x 23 5/32 H	0.540	0.075	13	Noga	DG61003	**436L73**

Description	Brand	Mfr. Model	Item No.
Indicator Accessories			
Shaft Alignment Clamp Set w/Model 196 Indicator and Case	Starrett	S668CZ	**4CEV9**
Shaft Alignment Clamp Set w/No. 2ZUH4 Indicator and Case	Starrett	S668DZ	**4CEW1**
Shaft Alignment Clamp Set w/Accessories and Case	Starrett	S668BZ	**4CEW2**
Shaft Alignment Clamp Set w/Accessories	Starrett	S668A	**4CEW3**
Shaft Alignment Clamp	Starrett	668	**4CEW4**
Roller Contact Point	Starrett	25W	**4CER8**
Steel Contact Point, 0.080" Ball Dia.	Tesa Brown & Sharpe	599-7049	**5TZU9**
Steel Contact Point, ⅜" Wide, Bell Shape Tip	Starrett	PT06632-2	**5UAJ4**
Steel Contact Point, ½" Wide, Bell Shape Tip	Starrett	PT06632-3	**5UAJ5**
Steel Contact Point, ⅜"' Wide, Round Head	Starrett	PT06632-5	**5UAJ7**
Steel Contact Point, ½" Wide, Round Head	Starrett	PT06632-4	**5UAJ6**
Steel Contact Point, Pointed Tip, 13/64" Knurled Dia, ½"L	Starrett	PT06632-6	**5UAJ8**
Steel Contact Point, Spherical Tip, 13/64" Knurled Dia	Starrett	PT06632-9	**5UAK1**
Steel Contact Point, 1/32" Wide Tip, 13/64" Knurled Dia	Starrett	PT06632-8	**5UAK0**
Steel Contact Point, 1/16" Wide Tip, 7/16"L	Starrett	PT06632-11	**5UAK3**
Steel Contact Point, 1/16" Wide Tip, 1"L	Starrett	PT06632-12	**5UAK4**
Steel Contact Point, 1/16" Wide Tip, 1 7/8"L	Starrett	PT06632-13	**5UAK5**
Steel Contact Point, 1/16" Wide Tip, 2"L	Starrett	PT06632-14	**5UAK6**

Description	Brand	Mfr. Model	Item No.
Steel Contact Point, Round End, ½" L	Starrett	PT06677	**5UAK9**
Steel Contact Point, Round End, 1" L	Starrett	PT06677B	**5UAL0**
Steel Contact Point, Round End, 2" L	Starrett	PT06677F	**5UAL1**
Split Collet	Starrett	25SC38	**5UAL2**
Magnetic Indicator Back	Starrett	676-2	**5UAL3**
Mini-Magnetic Tool Holder	Starrett	661	**5UAL7**
Indicator Attachment	Starrett	657Y	**4CER9**
Universal Indicator Attachment	Starrett	671	**6NAY7**
Universal Dovetail Attachment	Tesa Brown & Sharpe	599-7054	**5TZV0**
Universal Snug, ¼, 5/16, ⅜" Spindle Hole Dia., 3/32 to ¼" Dia. Gripping Holes	Starrett	58S	**5UAU7**
Universal Snug, 5/16, ⅜" Spindle Hole Dia., 9/64, 5/32, 3/16, ¼" Dia. Gripping Holes	Starrett	57S	**5UAU8**
Combination Square Clamp Screw Assembly	Tesa Brown & Sharpe	599-9400-1058	**5TZV3**
Collet Clamp, AGD Ind	Tesa Brown & Sharpe	599-8940	**5TZV4**
Centering Holder w/Fine Adjustment	Noga	NF1022	**436L80**

Scan. Order. Done.
Details on page A1.







Starrett® WESTWARD brown & sharpe

Combination Square Sets, Heads, and Blades

SETS

Used for layout, setup, checking heights and depths, and setting angles. Also used as squares, center gages, bevel protractors, rules, and straight edges. 2-pc. sets include square head and blade. No. 5UAP7 has double square head. 3-pc. sets include blade (scale), center, and square heads. 4-pc. sets include blade (scale), center, square heads, and protractor.

HEADS

- Work with 12" to 24" blades

Square—Have precision ground 90° square face and 45° miter face and come with hardened scriber and spirit level.

Center—Allow center to be scribed on end of round stock.

Protractor—Feature spirit level and revolving turrets. Capable of direct reading, double graduation, and full 0° to 180° in opposite directions.

BLADES

Satin chrome finished for sharp, glare-free graduations.

Blade Length (in.)	Head Material	Brand	Mfr. Model	Item No.	
2-Pc. Sets					
1mm and 1/2mm Both Sides					
300mm	Cast Iron	Starrett	11MH-300	**5UAR0**	
8ths/16ths/32nds/64ths					
6	Steel	Starrett	33JH-6-4R	**5UAP8**	*
	Steel	Starrett	C33H-6-4R	**6NAY9**	
12	Cast Iron	Starrett	11H-12-4R	**3AEP9**	
	Cast Iron	Starrett	C11H-12-4R	**2ZUR1**	**
18	Cast Iron	Starrett	C11H-18-4R	**5UAP5**	
24	Cast Iron	Starrett	C11H-24-4R	**5UAP6**	
8ths/16ths/32nds/64ths, Double Square Set					
6	Cast Iron	Starrett	13C	**5UAP7**	
3-Pc. Sets					
8ths/16ths/32nds/64ths					
6	Steel	Starrett	C33HC-6-4R	**2ZUR2**	
12	Cast Iron	Westward	—	**2YNH3**	
4-Pc. Sets					
1mm and 1/2mm					
12	Steel	Starrett	C434M-300	**4CEU1**	
8ths/16ths/32nds/64ths					
12	Steel	Tesa Brown & Sharpe	599-438-1204-1	**5RCJ6**	
	Steel	Starrett	C434-12-4R	**2ZUR3**	
	Cast Iron	Westward	—	**4KU80**	
	Cast Iron	Starrett	C435-12-4R	**2ZUR4**	
32nds/64ths/Aircraft 50ths/100ths					
12	Steel	Starrett	C434-12-16R	**5UAP9**	

Head Type	Head Material	Brand	Mfr. Model	Item No.
Heads				
Square	Steel	Starrett	H33-1224	**2ZUT3**
Center	Steel	Starrett	C33-1224	**2ZUT4**
Protractor	Cast Iron	Starrett	CPR-1224S	**2ZUT6**

Blade Length (in.)	Graduations	Brand	Mfr. Model	Item No.
Blades				
12	8ths/16ths/32nds/64ths	Starrett	CB12-4R	**2ZUR7**

** Junior ** Satin Chrome Blade*





Starrett® WESTWARD

Machinist's Squares

Used in visual checks of parts for squareness and to position one item perpendicular to another. True 90° angles inside and outside. Beams and blades are lapped for straightness and parallelism. Blade length is measured from inner edge of beam to end of blade.

Outside Dim. (in.)	Squareness (in.)	Brand	Mfr. Model	Item No.
Cast Iron				
3½ x 9⁄16	—	Starrett	13A	**6NAX7**
Stainless Steel				
3½ x 2	0.00020	Starrett	3020-3	**3AER1**
5¼ x 3	0.00020	Starrett	3020-4	**3AER2**
7 x 4	0.00020	Starrett	3020-6	**3AER3**
13½ x 7	0.00040	Starrett	3020-12	**3AER4**
4-Pc. Set - 2, 3, 5, and 12"	0.00020	Starrett	S3020Z	**2ZUU1**
Tool Steel				
3 x 2 3⁄8	0.00010	Starrett	20-3	**2ZUT7**
6 x 4 5⁄16	0.00010	Starrett	20-6	**2ZUT8**
12 x 7	0.00020	Starrett	20-12	**2ZUT9**
Carbon Tool Steel				
4-Pc. Set - 2, 3, 4 and 6"	0.00060	Westward	—	**6XY11**
4-Pc. Set - 4, 6, 9, and 12"	0.00060	Westward	—	**6XY13**







WESTWARD Starrett® Mitutoyo

Protractors

Magnetic Digital—Same features as electronic digital, but includes a magnet embedded on both sides with a 35-lb. pull. Ideal for circular saw angles.

Electronic Digital—These units calibrate easily and feature reading hold and alternate reference (zero) functions. Frames are made of machined aluminum.

Description	Length	Range	Brand	Mfr. Model	Item No.
Mechanical					
Rectangular	6"	0° to 180°	Westward	—	**4KU93**
	6"	0° to 180°	Starrett	C183	**2ZUY2**
Rectangular, Graduated	6"	0° to 180°	Mitutoyo	968-203	**1ARY7**
Round	6"	0° to 180°	Starrett	C19	**2ZUY3**
Semi-Circular	6"	0° to 180°	Mitutoyo	968-202	**1ARY6**
Universal Bevel	12"	360°	Mitutoyo	187-904	**4CGV4**
Magnetic Digital					
Rectangular w/SPC Output	2.165"	0° to 360°, 90 x 4	Westward	—	**2YNK6**
Electronic Digital					
Rectangular	6"	0° to 360°, 90 x 4	Westward	—	**2YNJ1**
	6"	0° to 360°, 90 x 4	Mitutoyo	950-317	**4LB15**
Rectangular w/SPC Output	6"	0° to 360°, 90 x 4	Mitutoyo	950-318	**1ZRV4**

Find even MORE on Grainger.com®

Mitutoyo WESTWARD Starrett® brown & sharpe

Precision Rules and Straight Edges

Description	Length (in.)	Length (mm)	Brand	Mfr. Model	Item No.
3R Graduations					
32nds, 64ths, 10ths, 50ths					
Flexible Rule	6	—	Mitutoyo	182-204	**4LA65**
4R Graduations					
8ths, 16ths, 32nds, 64ths					
Flexible Rule, SS	6	—	Mitutoyo	182-201	**6C289**
	12	—	Mitutoyo	182-221	**6C290**
Rigid Rule	6	150	Westward	—	**4KU96**
Rigid Rule, SS	6	—	Mitutoyo	182-101	**6C301**
	12	—	Mitutoyo	182-121	**6C302**
	18	—	Mitutoyo	182-241	**6C303**
	24	—	Mitutoyo	182-161	**6C304**
Spring Tempered Rule	6	—	Starrett	C604R-6	**2ZUW1**
	12	—	Starrett	C604R-12	**2ZUW2**
	18	—	Starrett	C604R-18	**2ZUW3**
	24	—	Starrett	C604R-24	**2ZUW4**
Spring Tempered Rule, w/End Graduations	6	—	Starrett	C604RE-6	**2ZUV9**
8ths, 16ths, Quick-Reading 32nds, 64ths					
Flexible Rule	6	—	Starrett	C304R-6	**6NAW5**
Heavy Tempered Rule	36	—	Starrett	C404R-36	**5UAN4**
	48	—	Starrett	C404R-48	**5UAN5**
	72	—	Starrett	C404R-72	**5UAN8**
Heavy Tempered Rule, w/Hook	48	—	Starrett	CH404R-48	**5UAN7**
Spring Tempered Rule, w/Hook	6	—	Starrett	CH604R-6	**6NAX1**
5R Graduations					
32nds, 64ths, 10ths, 100ths					
Flexible Rule	12	—	Starrett	C305R-12	**2ZUV1**
	24	—	Starrett	C305R-24	**2ZUV2**
Steel Rule, Flexible	6	—	Starrett	C305R-6	**2ZUU9**
Front: 32nds and 64ths, Back: 10ths and 100ths					
Flexible Rule, SS	6	—	Mitutoyo	182-203	**6C293**
	12	—	Mitutoyo	182-223	**6C294**
Rigid Rule, SS	6	—	Mitutoyo	182-103	**6C305**
	12	—	Mitutoyo	182-123	**6C306**
16R Graduations					
32nds, 64ths, 50ths, 100ths					
Flexible Rule	6	—	Starrett	C316R-6	**2ZUV3**
Front 32nds and 64ths, Back 50ths and 100ths					
Flexible Rule, SS	6	—	Mitutoyo	182-202	**6C295**
	12	—	Mitutoyo	182-222	**6C296**
Quick-Reading 32nds, 64ths, Aircraft Quick-Reading 50ths, 100ths					
Heavy Tempered Rule	48	—	Starrett	C416R-48	**5UAN6**
31 Graduations					
32nds, 64ths, 1/2mm, 1mm					
Flexible Rule	6	150	Westward	—	**4KY13**
Steel Rule, Flexible	6	150	Starrett	C331-150	**2ZUU4**
35 Graduations					
1/2mm and 1mm Both Sides					
Spring-Tempered Rule	—	1000	Starrett	C635-1000	**5UAP0**
	—	300	Starrett	C635-300	**6NAX8**
36 Graduations					
32nds and 1/2mm on One Side; 64ths and 1mm on Reverse					
Spring-Tempered Rule	19½	500	Starrett	C636-500	**5UAP1**
32nds, 64ths, 1/2mm, 1mm					
Spring-Tempered Rule	6	150	Starrett	C636ME-150	**2ZUV6**
	12	300	Starrett	C636-300	**2ZUV7**



Heavy Tempered Rule w/Hook
No. 6NAX1



Flexible Rule
No. 4KY13



Spring Tempered Rule
No. 2ZUV7



Pocket Rule
No. 6C300

Description	Length (in.)	Length (mm)	Brand	Mfr. Model	Item No.
Inch/Metric Graduations					
10ths, 50ths, 1mm, 1/2mm					
Flexible Rule, SS	6	150	Mitutoyo	182-208	**4LA66**
10ths, 100ths, 1mm, 1/2mm					
FlexibleRule, SS	6	150	Mitutoyo	182-207	**4CGV1**
16ths, 32nds, 64ths, 1mm, and 1/2mm					
Semi-Flexible Rule	6	150	Mitutoyo	182-302	**4LA68**
	12	300	Mitutoyo	182-305	**4LA69**
32nds, 64ths, 1/2mm, 1mm					
Flexible Rule, SS	6	150	Mitutoyo	182-205	**6C297**
	12	300	Mitutoyo	182-225	**6C299**
Rigid Rule, SS	6	150	Mitutoyo	182-105	**6C307**
	12	300	Mitutoyo	182-125	**6C308**
50ths, 100ths, 1mm, 1/2mm					
Flexible Rule, SS	12	300	Mitutoyo	182-226	**4LA67**
	6	150	Mitutoyo	182-206	**6C298**
64ths, 1mm					
Pocket Rule	6	150	Westward	—	**4KU97**
Pocket Rule, SS	6	150	Mitutoyo	950-300	**6C300**
Inch Graduations					
8ths, 16ths, 32nds, 64ths					
Hook Rule, Steel	6	—	Tesa Brown & Sharpe	599-323-604	**49U632**
32nds, 64ths					
Pocket Rule	6	—	Mitutoyo	950-301	**6NRC9**
Metric Graduations					
1mm, 1/2mm					
Flexible Rule, SS	—	150	Mitutoyo	182-211	**4CGV2**
Rigid Rule, SS	—	300mm	Mitutoyo	182-131	**16X226**
	—	150	Mitutoyo	182-111	**4CGU9**
Rule Depth Gage					
1mm, 1/2mm					
Metric	—	150	Starrett	237M	**4CEN6**
32nds, 64ths					
Fractional	6	—	Starrett	237	**4CEN5**
Steel Straight Edges					
No Graduations					
No Beveled Edges	12	300	Starrett	380-12	**2ZUX4**
	24	600	Starrett	380-24	**2ZUX5**
	36	900	Starrett	380-36	**2ZUX6**
One Beveled Edge	12	300	Starrett	385-12	**2ZUX7**
	24	600	Starrett	385-24	**2ZUX8**
	36	—	Starrett	385-36	**5UAP3**
	48	1200	Starrett	385-48	**2ZUX9**
	72	—	Starrett	385-72	**5UAP4**
One Beveled Edge, Draftsman	12	300	Starrett	386-12	**4CET6**
	24	600	Starrett	386-24	**4CET7**

Mitutoyo

Digimatic Scale Units and Mill/Lathe Readout Kits

Digimatic Scale Units—Provide precise horizontal or vertical (depending on model) linear measurement and positioning for workpieces and machine tables. Feature origin-set, zero-set, zero/ABS, and power on/off. Measurements are shown on the LCD and can be captured to computer via the SPC port. 3.5mm-thick beam can be installed on almost any surface, fixture, or machine with included mounting brackets. SPC cables sold separately, see page 2328.

- Resolution: 0.0005"/0.01mm

Digital Mill Kits—Offers mill function along with standard functions: preset, zero set, zero and pitch approach machining, and bolt hole circle calculation. 7-digit LED display. Connectable with AT715 electromagnetic scales and AT100 series glass scales.

- Resolution: 0.0001"/0.001mm

Digital Lathe Kits—KA counter with 7-digit LED offers lathe and standard functions.

Description	Includes	Mfr. Model	Item No.
Digimatic Scale Units			
Horizontal, Range 4"/100mm	Mounting Brackets	572-210-30	**1ARJ9**
Horizontal, Range 6"/150mm		572-211-30	**1ARR4**
Vertical, Range 6"/150mm		572-311-10	**4CGX2**
Vertical, Quill Kit, Range 6"/150mm	Quill Mounting Brackets	053906B	**4CGX8**
Digital Mill Kits			
12 L x 30" W	KA Counter, Scales, Mounting Brackets	64PKA058A	**4CGX5**
12 L x 36" W		64PKA059A	**4CGX6**
Digital Lathe Kits			
8 L x 40" W	Scales, KA Counter, Mounting Brackets	64PKA039A	**6NRF3**
10 L x 40" W		64PKA042A	**6NRF4**
12 L x 60" W		64PKA050A	**6NRF5**
14 L x 40" W		64PKA052A	**6NRF6**



No. 1ARJ9



No. 4CGX8





No. 4CGX5

Scan. Order. Done.
Details on page A1.



Pocket
No. 2ZVL8



Cross Test/Plumb
No. 2ZVL7



Bench
No. 2ZVL6



Machinists
No. 2ZVL3



Master
No. 3ACH1



Small Hole Set
No. 2ZVC4



Telescoping Set
No. 2ZVC3



Dial Bore Gage
No. 6ANT8



Electronic Bore Gage
No. 5RCF9



Dial, 15-Pc. Small Bore
No. 4KY21

Starrett®

Precision Levels

Cast-iron bases are precision machined on the reference surface. Groove and bearing flats are machined together for maximum accuracy.

Description	L (in.)	Total No. of Vials	Accuracy	Mfr. Model	Item No.
Pocket	2½	1	24 to 30 Minutes	135A	2ZVL8
	3½	1		135B	2ZVL9
Cross Test and Plumb	3	2		134	2ZVL7
Bench	3⅜	1	17 to 21 Minutes	130	2ZVL6
Machinists	4	1	—	98-4	6NAZ2
	6	2	0.005" per Ft/80 to 90 Seconds	98-6	2ZVL3
	8	2		98-8	2ZVL4
	12	3		98-12	2ZVL5
Machinists w/Case	12"	2	0.005"	98Z-12	5UAR1
Master	15	2	10 Seconds	199Z	3ACH1



Edge Finder, Single End
No. 1ZRN6

Edge/Center Finder, Double End
No. 2ZVK8



Starrett® Mitutoyo

Edge and Edge/Center Finders

Edge/Center—Dual-function tool also finds hole center. Face sizes: conical and 0.2".

Description	Tip Dia. (in.)	Shank Dia. (in.)	Brand	Mfr. Model	Item No.
Edge Finder, Single End	0.2	0.375	Starrett	827A	2ZVK7
	0.2	0.375	Mitutoyo	050101	1ZRN3
	0.2	0.500	Mitutoyo	050102	1ZRN4
	0.5	0.500	Mitutoyo	050109	1ZRN6
Edge Finder, Double End	0.2/0.5	0.500	Mitutoyo	050110	4LA53
Edge/Center Finder, Double End	0.2	0.500	Starrett	827B	2ZVK8
	0.2	0.500	Mitutoyo	050104	1ZRN5
Center Finder, Double End	0.2	0.375	Mitutoyo	050103	4LA52
Wiggler/Center Finder Set	0.01	0.375	Starrett	S828	5UAR7

Starrett® Mitutoyo WESTWARD®

Gage Sets

SMALL HOLE

Quickly gage deep or shallow holes, slots, and grooves. Hole size is obtained by measuring over contact points with a micrometer. Gaging surface is full round and fully hardened with a flat bottom.

TELESCOPING

Plunger expands in hole to be measured and locks in place; final hole size is obtained by measuring over contacts with a micrometer.

BORE

Feature carbide anvils, insulated grips, chrome-plated handle, and extension holder. Self-centering. Include case.

Dial—Have 0.0005" graduations. Individual bore gages have 0.0001" graduations.

Electronic—Preset master size with recall ensures absolute reading. Includes bar graph and numeric display, as well as demonstration disc. Has 0.00005"/0.001mm graduations.

Description	Range (in.)	Probe Depth (in.)	Brand	Mfr. Model	Item No.
Small Hole, 4-Pc. Sets					
Half Ball	0.125 to 0.500	3.00	Starrett	S831EZ	2ZVC5
	0.125 to 0.500	3.50, 3.80, 4.00, 4.24	Mitutoyo	154-901	4CGU7
Full Ball	0.125 to 0.500	3.00	Starrett	S829EZ	2ZVC4
Telescoping Gages					
1-Pc.	¾ to 1¼	—	Mitutoyo	155-123	6NRD5
	1¼ to 2⅛	—	Mitutoyo	155-124	6NRD6
	2¼ to 3½	—	Mitutoyo	155-125	6NRD7
Sets					
4-Pc.	0.312 to 2.125	—	Starrett	S579GZ	2ZVC3
	0.315 to 2.126	—	Mitutoyo	155-907	5C718
5-Pc.	0.500 to 6	—	Mitutoyo	155-904	1ARB2
	0.500 to 6.000	—	Starrett	S229GZ	2ZVA9
6-Pc.	0.313 to 5	—	Westward	—	4KU95
	0.315 to 6	—	Mitutoyo	155-903	5C717
6-Pc. w/2 Arms	5⁄16 to 6	—	Starrett	S579HZ	5UAV1
Bore Gages					
Dial, 1-Pc.	0.24 to 0.4	2.00	Mitutoyo	511-212	4CGU5
	0.4 to 0.7	2.40	Mitutoyo	526-123	4CGT9
	0.7 to 1.4	4.10	Mitutoyo	511-751	6ANT8
	0.7 to 6	4.10, 6.00	Mitutoyo	511-932	6ANU2
	1.4 to 2.5	6.00	Mitutoyo	511-752	6ANT9
	2 to 6	6.00	Mitutoyo	511-753	6ANU0
	2 to 6	6.00	Starrett	3089Z-131-26J	5UAR2
	6.5 to 10	9.80	Mitutoyo	511-755	6ANU1
Electronic, LCD	1 to 2"/25.4 to 50.8mm	5.90	Mitutoyo	568-930	5RCF9
	2 to 4"/50.8 to 101.6mm	5.90	Mitutoyo	568-936	5RCG0
Sets					
Dial, 3-Pc.	0.275 to 0.5"	4.00	Mitutoyo	368-916	5RCF7
Dial, 4-Pc.	0.8 to 2"	4.00	Mitutoyo	368-918	5RCF8
Dial, 15-Pc. Small Bore	1.4 to 6"	10.00	Westward	—	4KY21



Dial
No. 2ZUN2



Digital
No. 3CRE8

Mitutoyo Starrett®

Thickness Gages

Measure parts such as gasket material, shim stock, paper, plastic, and rubber.

Dial—Feature interchangeable contact and constant spindle pressure.

Digital—Feature zero-set, power on/off, and inch/metric conversion. Include battery.

Range (in.)	Resolution (in.)	Throat Depth	Brand	Mfr. Model	Item No.	
Dial						
0 to 0.0500	0.00010	1.18"	Mitutoyo	7326S	**2HB39**	
	0.00010	1.18"	Mitutoyo	7326SCERT	**1ARV1**	*
0 to 0.375	0.001	0.50"	Starrett	1010Z	**2ZUN4**	
0 to 0.500	0.00050	2.50"	Starrett	1015A	**2ZUN2**	
	0.001	1.18"	Mitutoyo	7300S	**2HB37**	
	0.00100	1.18"	Mitutoyo	7300SCERT	**5RCG8**	*
0 to 1.000	0.001	1.18"	Mitutoyo	7304S	**2HB38**	
10mm	0.01mm	30mm	Mitutoyo	7301	**6NRC7**	
Digital						
0 to 0.470	0.00005	0.80"	Mitutoyo	547-400S	**4CGW3**	
	0.00050	30mm	Mitutoyo	547-500S	**4CGW4**	
	0.00050	4.70"	Mitutoyo	547-520S	**4CGW5**	
	0.00050	4.7"	Mitutoyo	547-520SCERT	**5RCG7**	*
0 to 0.500	0.00050	0.75"	Starrett	765A	**3CRE8**	

** Certificate of calibration.*



Drive Pins
No. 3AET9



Center
No. 1ARY9

Starrett® WESTWARD Mitutoyo

Punch Sets

Drive Pin—Drive out difficult pins and rivets.

Center—Made of hardened tool steel with knurled body for better grip.

No. of Pieces	Sizes Included	L (in.)	Material	Brand	Mfr. Model	Item No.
Drive Pin						
4	3⁄16, 1⁄4, 5⁄16, 3⁄8" Pouch	8	Brass with Steel Grip	Starrett	SB248Z	**3AER9**
5	1⁄8, 3⁄16, 1⁄4, 5⁄16, 3⁄8" Pouch	8	Carbon Tool Steel	Westward	—	**2YNE7**
	1⁄8, 3⁄16, 1⁄4, 5⁄16, 3⁄8" Pouch	8	Steel	Starrett	S248PC	**2ZVJ6**
	1⁄8, 3⁄16, 1⁄4, 5⁄16, 3⁄8" Plain Box	8	Steel	Starrett	S248	**2ZVJ7**
	1⁄8-3/8"	8	Steel	Mitutoyo	985-118	**4LB27**
8	1⁄16, 3⁄32, 1⁄8, 5⁄32, 3⁄16, 7⁄32, 1⁄4, 5⁄16" Plastic Box	4	Steel	Starrett	S565WB	**2ZVK5**
	1⁄16, 3⁄32, 1⁄8, 5⁄32, 3⁄16, 7⁄32, 1⁄4, 5⁄16" Pouch	4	Brass	Starrett	SB565Z	**3AET9**
	1⁄16-5/16"	4	Steel	Mitutoyo	985-119	**4LB28**
	1⁄16-5/16"	4	Brass	Mitutoyo	985-120	**4LB29**
Center						
5	Sizes 1⁄16 to 5⁄32", Pouch	3 and 4"	—	Mitutoyo	985-138	**1ARY9**
	Sizes: 1⁄16", 5⁄64", 3⁄32", 1⁄8", 5⁄32", Plastic Case	3 to 5"	Steel	Starrett	S117PC	**2ZVF5**
7	Round Plastic Box	3 - 5"	Tool Steel	Starrett	S264WB	**2ZVJ8**



No. 2ZVF4



No. 2YNE9

Starrett® WESTWARD

Automatic Center Punches

- No striking required
- Replaceable tips

All punches have a steel tip for punching starter holes or producing small indentations in workpieces to facilitate drilling. No. 2ZVF4 is a hinge locating center punch.

L	Dia.	Adjustable	Brand	Mfr. Model	Item No.	
4"	9⁄16"	Yes	Starrett	18AA	**2ZVE8**	
5"	5⁄8"	Yes	Starrett	819	**2ZVF4**	†
	9⁄16"	Yes	Starrett	18A	**2ZVE9**	
	1⁄2"	Yes	Westward	—	**2YNE9**	
5 1⁄4"	1 1⁄16"	Yes	Starrett	18C	**2ZVF2**	
6"	5⁄8"	Yes	Westward	—	**2YNF1**	*
		Yes	Westward	—	**2YNF2**	

** Carbide Tip † Hinge Locating*



Straight Leaves
No. 1ZRU8



Tapered Leaves
No. 5UAC6

Starrett® Mitutoyo

Feeler Thickness Gages

Locknut holds one or more leaves in any position. Steel case. Starrett individual gages are 1⁄2" x 12".

Range (in.)	Size of Leaves	No. of Leaves	Brand	Mfr. Model	Item No.
Straight Leaves					
0.0015 to 0.015	1⁄2" x 3 1⁄32"	9	Starrett	172A	**5UAU3**
0.0015 to 0.025	1⁄2"-1/4" x 3"-1/32"	26	Starrett	66	**2ZVC7**
0.0015 to 0.035	1⁄2"-1/4" x 3"-1/32"	31	Starrett	66B	**4CEN4**
0.0015/0.0150	1⁄2" x 6"	8	Mitutoyo	950-256	**1ZRV2**
0.0015 to 0.200	1⁄2" x 4 1⁄2"	13	Starrett	467	**2ZVE1**
0.002 to 0.015	1⁄2" x 12"	8	Starrett	172E	**5UAU4**
0.002/0.035	1⁄2" x 3"	26	Mitutoyo	950-251	**1ZRU8**
0.05 to 1.0 mm	1⁄2" x 3 1⁄32"	20	Starrett	66MA	**5UAC5**
0.05 to 1mm	100mm	28	Mitutoyo	184-313S	**16X228**
0.05 to 1mm	150mm	28	Mitutoyo	184-303S	**16X227**
Tapered Leaves					
0.03 to 0.50	1⁄2"-9/32" x 3 1⁄32"	13	Starrett	173MAT	**5UAC6**
0.0015/0.0250	1⁄2" x 3"	26	Mitutoyo	950-252	**1ZRU9**
0.0015 to 0.015	1⁄2"-1/4" x 3"-1/32"	9	Starrett	172AT	**6NAX0**

Range (in.)	Brand	Item No.
Individual Gages, Straight Leaves		
0.0005	Starrett	**5UAC7**
0.0010	Starrett	**5UAC8**
0.0015	Starrett	**5UAC9**
0.0020	Starrett	**5UAD0**
0.0025	Starrett	**5UAD1**
0.0030	Starrett	**5UAD2**
0.0040	Starrett	**5UAD3**
0.0050	Starrett	**5UAD4**
0.0060	Starrett	**5UAD5**
0.0070	Starrett	**5UAD6**
0.0080	Starrett	**5UAD7**
0.0090	Starrett	**5UAD8**
0.010	Starrett	**5UAD9**
0.011	Starrett	**5UAE0**
0.012	Starrett	**5UAE1**
0.013	Starrett	**5UAE2**
0.014	Starrett	**5UAE3**
0.015	Starrett	**5UAE4**
0.016	Starrett	**5UAE5**
0.017	Starrett	**5UAE6**
0.018	Starrett	**5UAE7**
0.019	Starrett	**5UAE8**
0.020	Starrett	**5UAE9**
0.021	Starrett	**5UAF0**
0.022	Starrett	**5UAF1**
0.023	Starrett	**5UAF2**
0.024	Starrett	**5UAF3**
0.025	Starrett	**5UAF4**
0.026	Starrett	**5UAF5**
0.027	Starrett	**5UAF6**
0.028	Starrett	**5UAF7**
0.029	Starrett	**5UAF8**
0.030	Starrett	**5UAF9**
Gage Holders		
Single End	Starrett	**5UAG0**
Double End	Starrett	**5UAG1**



Class X
No. 39UJ41



Class ZZ
No. 5VUH9

Plug and Thread Gages

Vermont Gage

GF GAGE

Provide accurate measurement standards that are perfect for the shop floor. Compare hole and slot dimensions or locations to specific tolerances. Use as masters to calibrate measuring equipment or to gage parts directly.

Class X—These gages are for use where greater precision is needed.

Class ZZ—Practical gages for use where precision and speed are important.

Thread Gages—Mercury-threaded gages are ground, precision lapped, and inspected to every thread element. Made to X-tolerance. Class 2B are for general applications such as bolt, nut, screw, and similar threaded fasteners. 6H tolerance gages are metric.

Dia.	Overall Length	Finish	Brand	Mfr. Model	Item No.
Plug Gages					
Class X					
0.0625"	2"	4 Microfinish or Better	Vermont Gage	141106250	**49FK19**
0.0938"			Vermont Gage	141109380	**49FN34**
0.1250"			Vermont Gage	141112500	**49FT48**
0.1563"			Vermont Gage	141115630	**49FX64**
0.1875"			Vermont Gage	141118750	**49GA76**
0.2188"			Vermont Gage	141121880	**49GE90**
0.2500"			Vermont Gage	141125000	**49GJ06**
0.2813"			Vermont Gage	141128130	**49GM17**
0.3125"			Vermont Gage	141131250	**39UJ41**
0.3438"			Vermont Gage	141134380	**49NX99**
0.3750"			Vermont Gage	141137500	**49PC15**
0.4063"			Vermont Gage	141140630	**49PF31**
0.4375"			Vermont Gage	141143750	**49PJ46**
0.4688"			Vermont Gage	141146880	**49PM62**
0.5000"			Vermont Gage	141150000	**49PR77**
Class ZZ					
0.063	2"	Black Oxide - 10 Microfinish or Better	Vermont Gage	911106300	**5YEY5**
0.094			Vermont Gage	911109400	**5YEZ3**
0.125			Vermont Gage	911112500	**5VUJ3**
0.156			Vermont Gage	911115600	**5YZK6**
0.188			Vermont Gage	911118800	**5YZP7**
0.219			Vermont Gage	911121900	**5ZRD8**
0.250			Vermont Gage	911125000	**5VUH9**
0.281			Vermont Gage	911128100	**5ZRK9**
0.313			Vermont Gage	911131300	**5ZRR1**
0.344			Vermont Gage	911134400	**5ZRV2**
0.375			Vermont Gage	911137500	**5YEU9**
0.406			Vermont Gage	911140600	**5MCH2**
0.438			Vermont Gage	911143800	**5MCL4**
0.469			Vermont Gage	911146900	**5MCR5**
0.500			Vermont Gage	911150000	**5MCV5**

Dia.	Overall Length	Finish	Thread Size	Brand	Mfr. Model	Item No.
Thread Gages						
Class 2B						
0.0860"	2½"	Unfinished	#2-56	Gf Gage	W0086562BS	**53UG45**
0.1120"	2 31/32"		#4-40	Gf Gage	W0112402BS	**53UG44**
0.1640"	3 3/16"		#8-32	Gf Gage	W0164322BS	**53UG47**
0.1900"			#10-32	Gf Gage	W0190322BS	**53UG48**
0.1900"			#10-24	Gf Gage	W0190242BS	**53UG52**
0.2500"	4 1/16"		¼-20	Gf Gage	W0250202BS	**53UG42**
0.3750"	4⅝"		⅜-16	Gf Gage	W0375162BS	**53UG46**
0.5000"			½-20	Gf Gage	W0500202BS	**53UG40**
0.5000"			½-13	Gf Gage	W0500132BS	**53UG43**
0.5625"	5⅛"		9/16-18	Gf Gage	W0562182BS	**53UG41**
0.6250"			⅝-11	Gf Gage	W0625112BS	**53UG50**
0.7500"			¾-16	Gf Gage	W0750162BS	**53UG49**
Class 6H						
0.1574"	3 3/16"	Unfinished	M4 x 0.70	Gf Gage	W0400706HS	**53UG51**
0.2362"	4 1/16"		M6 x 1.00	Gf Gage	W0601006HS	**53UG53**
Class L-1						
0.0625"	3¼"	Unfinished	1/16-27	Gf Gage	P006227NSE	**53UG54**
0.1000"	4 1/16"		1-11-1/2	Gf Gage	P100099NSE	**53UG60**
0.1250"	3¼"		1/8-27	Gf Gage	P012527NSE	**53UG55**
0.1250"	4¾"		1 1/4-11-1/2	Gf Gage	P125099NSE	**53UG61**
0.1500"			1½-11-1/2	Gf Gage	P150099NSE	**53UG62**
0.2500"	3¾"		¼-18	Gf Gage	P025018NSE	**53UG56**
0.3750"			⅜-18	Gf Gage	P037518NSE	**53UG57**
0.5000"	4⅛"		½-14	Gf Gage	P050014NSE	**53UG58**
0.7500"	4 3/16"		¾-14	Gf Gage	P075014NSE	**53UG59**



Drill Gage
No. 5C732



Drill Point Gage
No. 1ZRV3



No. 5C736



Center Gage
No. 5C730



Screw Pitch Gage
No. 2ZVE2

Mitutoyo Starrett® Vermont American

Gages

Gages per Set	Measuring Range	Brand	Mfr. Model	Item No.
Radius Gage Sets				
15 Pair of Leaves	1/32 to ¼" by 64ths	Mitutoyo	186-101	**6NRD1**
16 Pair of Leaves	17/64 to ½" by 64ths	Mitutoyo	186-102	**6NRD2**
25 Leaves	1/64 to 17/64" by 64ths, 9/32 to ½" by 32nds	Mitutoyo	186-901	**4CGV3**
	1/64 to 17/64 by 64ths, 9/32 to ½ by 32nds	Starrett	S167CHZ	**2ZVD3**
26 Leaves	0.010 to 0.030" by 0.005", 0.040 to 0.100" by 0.010", 0.120 to 0.300" by 0.020", 0.350 to 0.500" by 0.050"	Mitutoyo	186-906	**1ZRR2**
32	7.5 to 15mm by 0.5mm	Mitutoyo	186-106	**16X230**
34 Pairs	1 to 7mm	Mitutoyo	186-105	**16X229**

Measuring Range (in.)	Brand	Mfr. Model	Item No.
Taper/Wire/Thickness Gage			
Taper 1/64 to 3/16", Thickness 0.002 to 0.015", 1/16"	Starrett	245	**4CEN7**
Taper Gages			
0.010 to 0.150	Starrett	270	**2ZVC2**
0.100 to 0.500	Starrett	269A	**2ZVC1**
Drill Gages			
1/16 to ½	Mitutoyo	950-206	**5C732**
1.0 to 5.9mm	Mitutoyo	950-208	**5C733**
A to Z	Mitutoyo	950-209	**5C734**
Drill Point Gage			
6"	Mitutoyo	950-275	**1ZRV3**
Tap and Drill Gages			
Tap Size #2-56NC to ¼-28NF	Mitutoyo	950-204	**5C731**
American Standard Wire Gages			
Gage No. 0 to 36 (Nonferrous)	Mitutoyo	950-202	**5C735**
U.S. Standard Wire Gages			
Gage No. 0 to 36 (Ferrous)	Mitutoyo	950-203	**5C736**
U.S. Standard Sheet Metal Gage			
0-36	Starrett	283	**2ZVD8**
Center Gages			
American Standard or US 60° Threads	Mitutoyo	950-201	**5C730**

No. of Leaves	Measuring Range	Brand	Mfr. Model	Item No.
Screw Pitch Gages				
14	Metric Thread Counts (0.45mm to 2.50mm)	Vermont American	21938	**2NXA5**
	U.S. Thread Counts (10-40)	Vermont American	21939	**2NXA6**
18	0.4 to 7	Mitutoyo	188-121	**6NRD3**
21	0.4 to 7	Mitutoyo	188-122	**6NRD4**
27	2¼ to 28 TPI	Starrett	155	**6NAZ8**
	3½ to 36 TPI	Starrett	484	**6NAX2**
28	4 to 56 TPI/0.5 to 6mm	Mitutoyo	188-152	**1ARB7**
	0.25 to 2.5mm	Mitutoyo	188-153	**1ARB8**
30	4 to 42 TPI	Mitutoyo	188-111	**1ARB3**
51	4 to 84 TPI	Starrett	472	**2ZVE2**
	4 to 84 TPI	Mitutoyo	950-253	**1ZRV1**
	4 to 42 TPI/0.4 to 7mm	Mitutoyo	188-151	**1ARB4**



No. 1ARU4

9-Pc. Set
No. 4CGW7



81-Pc. Set
No. 3ACH2

Mitutoyo WESTWARD Starrett®

Gage Blocks and Sets

Steel blocks for calibrating micrometers and indicators. V-Blocks, Clamps, and 1-2-3 Blocks are available online at Grainger.com®.

Nom. Size	Grade	RECTANGULAR Mfr. Model	RECTANGULAR Item No.	SQUARE Mfr. Model	SQUARE Item No.
Individual Gage Blocks, Mitutoyo					
0.050"	ASME 0	611105-531	**1ARU2**	614105-531	**6NRE7**
0.100"	ASME 0	611191-531	**1ARU3**	614191-531	**6NRE8**
0.125"	ASME 0	611165-531	**6NRE1**	—	—
0.150"	ASME 0	611115-531	**6NRE2**	—	—
0.250"	ASME 0	611212-531	**6NRE3**	—	—
0.500"	ASME 0	611195-531	**1ARU4**	614195-531	**6NRE9**
1.000"	ASME 0	611201-531	**1ARU5**	614201-531	**6NRF0**
1.000"	ASME AS-1	611201-541	**6NRE4**	—	—
2.000"	ASME 0	611202-531	**6NRE5**	614202-531	**6NRF1**
4.000"	ASME 0	611204-531	**6NRE6**	614204-531	**6NRF2**

Description	Grade	Includes	Brand	Mfr. Model	Item No.
Gage Block Sets					
9-Pc.	ASME 0	0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1, 2, Wood Case, Optical Parallel, Certification	Mitutoyo	516-930-26	**4CGW7**
	AS-1	0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1, 2, Wood Case, Certification		516-935-26	**4CGW9**
81-Pc.		9 Blocks 0.1001 thru 0.1009" Step of 0.0001", 49 Blocks 0.101 thru 0.149" Step of 0.001", 19 Blocks 0.050 thru 0.950" Step of 0.050", 4 Blocks 1.000 thru 4.000" Step of 1.000", Wood Case, Certificate of Accuracy w/NIST Traceability	Westward	—	**2YNK8**
	ASME B	9 Blocks 0.1001 thru 0.1009" Step of 0.0001", 49 Blocks 0.101 thru 0.149" Step of 0.001", 19 Blocks 0.050 thru 0.950" Step of 0.050", 4 Blocks 1.000 thru 4.000" Step of 1.000", Wood Case	Starrett	RS81.B	**3ACH2**
	ASME 0	9 Blocks 0.1001 thru 0.1009 Step of 0.0001, 49 Blocks 0.101 thru 0.149 Step of 0.001, 19 Blocks 0.050 thru 0.950 Step of 0.050, 4 Blocks 1.000 thru 4.000 Step of 1.000, Wood Case, Certification	Mitutoyo	516-902-26	**4CGW6**



11-Hole
No. 45TY04



23 Hole
No. 45TY06

Tri-Blocks

These steel blocks from Suburban Tool, Inc. are carburized and hardened to Rockwell "C" and ground on all 6 sides. No. 45TY05 has ½" though hole in 2" x 3" face. To allow screw mounting and conversion into angle plates and other precision set-ups, No 45TY04 has drilled, counter-bored, and 5/16-18 tapped holes and Nos. 45TY06, 45TY08, and 45TY09 have 3/8-16 tapped holes and matching clearance.

Holes	Description	Parallelism	Item No.
Squareness 0.0001"/1, w/Fitted Wood Box			
0	3" L x 1" H x 2" W	0.0002"	**45TY07**
1		0.0002"	**45TY05**
11		0.0002"	**45TY04**
23		0.0002"	**45TY06**
	4" L x 2" H x 3" W	0.0003"	**45TY08**
	6" L x 2" H x 4" W	0.0003"	**45TY09**
Squareness 0.0002"			
0	3" L x 1" H x 2" W	0.0002"	**45TY10**

Vermont Gage Starrett®

Pin Gage Sets

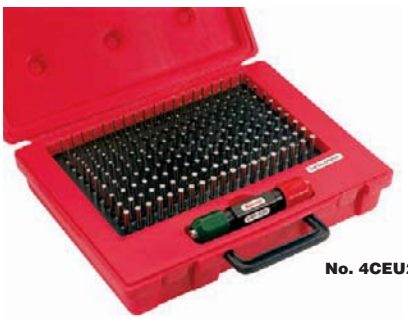
- 0.0002" tolerance; 0.005mm tolerance for Metric sizes
- 0.001" increments; 0.02mm increments for Metric sizes
- 2" length

Use for determining small hole sizes, for gaging slots, and for finding hole distances. Vermont Gage and Westward sets are Class ZZ. Starrett sets are Tool Room Grade. Individual Pin Gages and Handles are available online at Grainger.com®.

Measuring Range	VERMONT GAGE Black Guard Go - Black Oxide Item No.	VERMONT GAGE Black Guard Go - Black Oxide Library Item No.	VERMONT GAGE Black Guard No-Go - Black Oxide Item No.	VERMONT GAGE Black Guard No-Go - Black Oxide Library Item No.	STARRETT Go - Plug Gage Item No.	STARRETT No-Go - Plug Gage Item No.
0.006" to 0.060"	**5VUC9**	—	**5VUD7**	—	—	—
0.011" to 0.060"	**5VUD0**	—	**5VUD8**	—	**4CEU2**	**4CEU3**
0.011" to 0.250"	**5VUD1**	—	**5VUD9**	—	—	—
0.011" to 0.750"	—	**5MAT7**	—	**5MAU2**	—	—
0.011" to 1.000"	—	**5MAT8**	—	**5MAU3**	—	—
0.061" to 0.250"	**5VUD2**	—	**5VUE0**	—	**4CEU4**	**4CEU5**
0.061" to 0.750"	—	**5MAT9**	—	**5MAU4**	—	—
0.251" to 0.500"	**5VUD3**	—	**5VUE1**	—	**4CEU6**	**4CEU7**
0.501" to 0.625"	**5VUD4**	—	**5VUE2**	—	**4CEU8**	**4CEU9**
0.626" to 0.750"	**5VUD5**	—	**5VUE3**	—	**4CEV1**	**4CEV2**
0.751" to 0.832"	**5VUD6**	—	**5VUE4**	—	**4CEV3**	**4CEV4**
0.833" to 0.916"	**5MAT5**	—	**5MAU0**	—	—	**4CEV6**
0.917" to 1.000"	**5MAT6**	—	**5MAU1**	—	—	**4CEV8**
Metric						
0.20mm-1.28mm	**5VUE5**	—	**5VUE8**	—	—	—
0.21mm-1.29mm	**5VUF1**	—	**5VUF4**	—	—	—
1.30mm-4.98mm	**5VUE6**	—	**5VUE9**	—	—	—
1.31mm-4.99mm	**5VUF2**	—	**5VUF5**	—	—	—
5.00mm-9.98mm	**5VUE7**	—	**5VUF0**	—	—	—
5.01mm-9.99mm	**5VUF3**	—	**5VUF6**	—	—	—
10.00 to 13.98mm	**5MAU5**	—	**5MAU6**	—	—	—



No. 5VUD4



No. 4CEU2



Pocket Folding Magnifier No. 3G983



Handheld LED Magnifier No. 3DUW4



Hastings Triplet Magnifier No. 3H431



Coddington Magnifier Illuminated No. 3G993



Packette Magnifier No. 3G985



Magnifier Head No. 3DUW5



LED DC Magnifier Handle No. 3DUX4

Magnifiers

BAUSCH+LOMB ESCHENBACH OPTIK Better vision. Better life.

Pocket Folding Magnifiers— No. 3G977 is a single-lens magnifier. No. 3G983 is a 3-lens magnifier which can be combined to produce 7 different powers. No. 3G981 is a 2-lens magnifier which can be combined to produce 3 different powers.

easyPOCKET Illuminated LED Magnifier—Ideal for use in dimly lit locations with distortion-free aspheric/diffractive hybrid lens. SMD LED technology never needs to be changed. Automatic contact mechanism allows the light to conveniently go on and off without a switch. Pull tab on right side and easyPOCKET slides out of the left side.

Handheld LED—Bausch & Lomb magnifiers have acrylic lens and include case. Eschenbach magnifiers combine German optics and LED lighting for inspection anywhere. Aspheric lens with hard coating and detachable cover. 2 batteries included.

Hastings Triplet—Adjustable for individual focus. Leather case included. No. 3G995 allows illumination to fall on the magnified area. Nos. 3H431, 2RPA4, and 3H433 have 3 separate glass lenses bonded together to form a compound lens.

Double Lens—2 plano-convex glass lenses provide a corrected wide, flat field.

Coddington—Single thick lens with a central groove diaphragm. No. 3G993 uses 2 AA batteries (not included).

Packette—Optical quality aspheric lens.

Articulated Arm Lamp Magnifier—Clamp to surfaces ¾" to 1" thick.

Illuminated Magnifier Heads and Handles—Order illuminated handles and prefocused lenses separately. Aspheric lenses with hard coating.

Power	Diopters	Focal Distance	Lens Dia.	Brand	Item No.	
Pocket Folding Magnifiers						
4X	16	2.5"	36mm	Bausch & Lomb	**3G977**	
5X to 20X	20 TO 80	2.0 a 0.5"	20mm	Bausch & Lomb	**3G983**	
4X, 5X, 9X	16D to 36D	2.5 a 1.1"	23.0mm (2)	Bausch & Lomb	**3G981**	
easyPOCKET Illuminated LED Magnifier						
3X	8D	5"	50 x 46mm	Eschenbach	**3DUY3**	
Handheld LED Magnifiers						
2X	3.6	10"/25cm	4"	Bausch & Lomb	**21U870**	
	5.2	7.6"/19.2cm	3 ½"	Bausch & Lomb	**21U872**	
	4.5	8.8"/22.4cm	2" x 4"	Bausch & Lomb	**21U873**	
3.5X	10	4"	75 x 50mm	Eschenbach	**3DUW1**	
7X	28	1.43"	35mm	Eschenbach	**3DUW4**	
10X	38	1.05"	35mm	Eschenbach	**3DUV7**	
12.5X	50	0.8"	30mm	Eschenbach	**3DUV8**	
Hastings Triplet Magnifier						
7X	28D	3.9cm	19.8mm	Bausch & Lomb	**3G995**	*
10X	20D	2.5cm	15.8mm	Bausch & Lomb	**3H431**	
14X	56D	2.0cm	12.5mm	Bausch & Lomb	**2RPA4**	
20X	76D	1.3cm	8.3mm	Bausch & Lomb	**3H433**	
Magnifier Measuring Scales for No. 3G995						
General Purpose Scale; For measuring radii from 1/16 to 3/8", 0.005" and 0.1 scales, line widths of 0.001, 0.002, 0.003"				Bausch & Lomb	**3G997**	
Inch Measuring Scales for No. 3G995						
Inch Scale, ¾" in 0.005" Intervals				Bausch & Lomb	**3G999**	
Magnifier Measuring Scales for No. 3G995						
Metric Scale, 20 mm in 0.1 mm Intervals				Bausch & Lomb	**3H001**	
Double Lens Magnifier						
3.5X	14	3"	44.2mm	Bausch & Lomb	**2RNZ9**	
Coddington Magnifier						
10X	34	2.5cm	19.8mm	Bausch & Lomb	**3H427**	
	34	1"/2.5cm	19.8mm	Bausch & Lomb	**3G993**	†
20X	65	0.5"/1.3cm	12.5mm	Bausch & Lomb	**3H429**	
Packette Magnifier						
5X	20D	2"/5.1cm	37mm	Bausch & Lomb	**3G985**	
Articulated Arm Lamp Magnifier						
1.75X	3D	13.33"	220mm	Eschenbach	**3DUX7**	
Illuminated Magnifier Heads And Handles						
Magnifier Heads						
3X	12D	3.33"	80mm	Eschenbach	**3DUX2**	
4X	16D	2.5"	70mm	Eschenbach	**3DUW9**	
5X	20D	2"	60mm	Eschenbach	**3DUW8**	
6X	24D	1.67"	50mm	Eschenbach	**3DUW7**	
7X	28D	1.43"	35mm	Eschenbach	**3DUW6**	
10X	38D	1.05"	35mm	Eschenbach	**3DUW5**	
12.5X	50D	0.8"	30mm	Eschenbach	**3DUX1**	
Magnifier Handles						
Incandescent Handle				Eschenbach	**3DUX3**	
LED DC Handle				Eschenbach	**3DUX4**	

**** Measuring † Illuminated***



Stereo No. 54GF79



Toolmaker's No. 54GF77

Microscopes

Mitutoyo

- 120VAC; 50/60 Hz

Stereo Microscopes—Nos. 54GF79 and 54GF80 feature crystal sharp, high-color contrast image with excellent depth of field. Always in sharp focus at all magnifications. The Parfocal Optical System allows relaxed, strain-free viewing. No. 54GF79 is a high-accuracy, 4-step magnification stereo microscope. No. 54GF80 features a magnification charger which is ideal for small part assembly. No. 54GF78 has stereo tube which can be rotated a full 360° for viewing at any angle. Bilateral zoom control knob adds convenience and increases operator efficiency. Diopter adjustment for both eyepieces.

Toolmaker's Microscope—Well-suited for measuring dimensions and angles of machined metals. Compact body for use on shop floors with limited space. Angle measurement is performed easily by turning the angle scale disc to align the cross-hair reticle with the workpiece image. Illumination intensity can be adjusted.

Magnification	Optical Tube	Measuring Units	Focusing Height Maximum	Max. Workpiece Height	Stage Dimensions	Table Size	Table Travel	Capacity Max.	Item No.
Stereo Microscopes, Dual Adjustable Diopter									
6X to 50X	Binocular	10W	215.9mm	89mm	95mm	33 x 20mm	—	10 lb.	**54GF79**
6.4X to 40X	Binocular	10W	215.9mm	89mm	90mm	170 x 230mm	—	10 lb.	**54GF80**
10X to 40X	Trinocular	10W	215.9mm	80mm	95mm	33 x 20mm	—	10 lb.	**54GF78**
Toolmaker's Microscope, Adjustable Diopter									
30X, 20X, 200X	Monocular	3W	67mm	107mm	154 x 96mm	237 x 152.4mm	2 x 50mm	11 lb.	**54GF77**

BAUSCH+LOMB

Watchmaker's Loupes

Optical quality lenses in precision-molded cases.

Power	Diopter	Focal Distance	Item No.
4x	16D	2.5"/6.4cm	**3H423**
5x	20D	21.4"/5.1cm2.0"/5.1cm	**3H421**
7x	28D	1.4"/3.7cm	**3H372**
10x	40D	1"/2.5cm	**3H230**
10x, Hastings	40D	1"/2.5cm	**2RPA3**



No. 3H230

Mahr Mitutoyo Starrett®

Surface Testers and Gages

Mobile Surface Testers—M 300 Mobile Nos. 446F43 (with 2 micron stylus) and 446F44 (with 5 micron stylus) include the option of wireless connection between the evaluation unit and drive unit. Feature integrated memory for results of up to 40,000 measurements and 30 profiles, 16 language capability, and integrated thermal graphics printer. For use with PHT probe range. PS 10 Mobile Nos. 446F42 (with 2 micron stylus) and 446F41 (with 5 micron stylus) feature large, illuminated 4.3" TFT touch display. Back up data as TXT, X3P, or PDF files. Power supply independent operation allows over 1200 measurements without having to recharge. Horizontal, vertical, and upside down measuring positions. 31 surface parameters offer the same range of functions as a laboratory instrument.

Surface Tester—Detachable detector/drive unit evaluates 39 surface parameters. Backlit color LCD reads vertically or horizontally and displays evaluation curve. Micro-SD card. USB, RS-232, and SPC output. Includes precision roughness specimen.

Pocket Surf® IV—Displays Ra, Rz, or Rmax. Simple one-button operation. Single-button calibration process does not require additional tools. Features 4 switchable probe positions: axial (folded) or at 90°, 180°, or 270°. Readout of the measured roughness value, in microfiches or micrometers, within half a second after the surface is traversed. Shows out-of-range (high and low) and battery signals. Operates horizontally, vertically, and upside down. Includes 9V battery. No. 40TF45 has 10um radius tip. No. 40TF46 has 5 um radius tip.

Surface Gages—No. 6NAZ1 has 12" and 18" spindle lengths and 4 gage pins. No. 6NAY2 features 9" spindle length and 2 gage pins. Both gages include scriber.



No. 40TF45

Measuring Range	Sampling Length (in.)	No. of Sampling Spans	Cut-Off Length (in.)	Arbitrary Length (in.)	Profile	Brand	Mfr. Model	Item No.
Mobile Surface Testers								
90, 180, to 350 micron	0.049, 0.157, 4.921	3	—	0.070, 0.220, 0.680	Ra, Rz, Ry, JIS is Equivalent to Rz, Rz, JIS, Rq, Rmax, Rp, RpA, ASME, Rpm, ASME, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr (tp (JIS, ASME) is Equivalent to Rmr), RSm, RSk, S, CR, CF, CL, R, Ar, Rx, Rv	Mahr Inc	6910401	**446F43**
	0.049, 0.157, 4.921	3	—	0.070, 0.220, 0.680	Ra, Rz, Ry, JIS is Equivalent to Rz, Rz, JIS, Rq, Rmax, Rp, RpA, ASME, Rpm, ASME, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr (tp (JIS, ASME) is Equivalent to Rmr), RSm, RSk, S, CR, CF, CL, R, Ar, Rx, Rv	Mahr Inc	6910411	**446F44**
350 micron	0.049, 0.157, 4.921	3	—	0.060, 0.190, 0.590	Ra, Rq, Rz, R y, JIS is Equivalent to Rz, Rz, JIS, Rmax, Rp, RpA, ASME, Rpm, ASME, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, V o, Rt, RPc, Rmr, (tp, (JIS, ASME) is Equivalent to Rmr), RSm, RSk, RS, CR, CF , CL, R, Ar, Rx	Mahr Inc	6910232	**446F41**
	0.049, 0.157, 4.921	3	—	0.060, 0.190, 0.590	Ra, Rq, Rz, R y, JIS is Equivalent to Rz, Rz, JIS, Rmax, Rp, RpA, ASME, Rpm, ASME, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, V o, Rt, RPc, Rmr (tp (JIS, ASME) is Equivalent to Rmr), RSm, RSk, RS, CR, CF , CL, R, Ar, Rx	Mahr Inc	6910230	**446F42**
Surface Testers								
17.5 mm	0.003, 0.010, 0.030, 0.100	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	0.003, 0.010, 0.030, 0.100"	0.010 to 0.630"(0.0001" Interval)	Ra, Rc, Ry, Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Rsk, Rku, RPc, Rsm, Rz1max, S, HSC, RzJIS, Rppi, RΔa, RΔq,Rlr, Rmr, Rmr(c), Roc, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rpm, tp, Htp, R, Rx, AR	Mitutoyo	178-561-02A	**5RCG9**
Pocket Surf® IV								
Ra 1 micron in to 250 micron in	0.030, 0.090, 0.150	1, 3, 5	0.03	—	Ra, Rz, Rmax	Mahr Inc	2191800	**40TF45**
	0.030, 0.090, 0.150	1, 3, 5	0.03	—	Ra, Rz, Rmax	Mahr Inc	2191802	**40TF46**
Pocket Surf® IV Accessories								
Diamond Surface Gage Probe, 0.0002" Radius						Mahr Inc	EGH-1026	**5RHL2**
Diamond Surface Gage Probe, 0.0004" Radius						Mahr Inc	EGH-1019	**5RHL1**
Diamond Surface Gage Probe, 0.0004" Radius, 90° Conical						Mahr Inc	EGH-1021	**5RHL3**
Diamond Surface Gage Probe, Groove Bottom						Mahr Inc	EGH-1028	**5RHL4**
Adjustable Surface Gage Stand						Mahr Inc	EAS-2496	**5RHL5**

Base Size (in.)	Upright Post Dia. (in.)	Snug	Brand	Mfr. Model	Item No.
Surface Gages					
3½ x 3 3/16	0.375	3/8"	Starrett	257D	**6NAZ1**
3 x 2 9/16	0.312	5/16"	Starrett	57A	**6NAY2**

Mitutoyo Starrett®

Durometers and Calibration Sets

- Blunt-taper indenter models have 35° tip angle
- Sharp-point indenter models have 30° tip angle

Provide quick and accurate results when testing elasticity of natural rubber, neoprene, polyesters, PVC, leather, nitrile, wax, vinyl, cellulose acetates, polystyrol (polystyrene), and other materials. Shore A scale is for flexible materials, and Shore D scale is for hard materials. Include case.

Analog—Peak retaining hand for error-free readings.

Digital—Feature zero-set and power On/Off, as well as a Data-hold feature that retains readings on the LCD display. Mitutoyo models have an SPC output for downloading readings to computer.

Scale	Range	Indenter	Location Area (in.)	Brand	Mfr. Model	Item No.
Analog Durometers						
Shore A	10 to 90	Blunt Taper	0.71 Diameter	Mitutoyo	811-331-10	**1ARV2**
			1.73 x 0.71	Mitutoyo	811-335-10	**1ARV6**
Shore D	20 to 90	Sharp Point	0.71 Diameter	Mitutoyo	811-333-10	**1ARV4**
			1.73 x 0.71	Mitutoyo	811-337-10	**1ZRT5**
Digital Durometers						
Shore A	0 to 100	Blunt Point	—	Starrett	3805B	**53VE96**
	10 to 90	Blunt Taper	0.71 Diameter	Mitutoyo	811-332-10	**1ARV3**
			1.73 x 0.71	Mitutoyo	811-336-10	**1ZRT4**
Shore D	20 to 90	Sharp Point	0.71 Diameter	Mitutoyo	811-334-10	**1ARV5**
			1.73 x 0.71	Mitutoyo	811-338-10	**1ZRT6**

Scale	Range	For Use With	Mfr. Model	Item No.
Calibration Sets for Durometers				
Shore A	30, 60, 90	Nos. 1ARV2, 1ARV3, 1ARV6, 1ZRT4	64AAA964	**1ARU7**
Shore D	20, 40, 80	Nos. 1ARV4, 1ARV5, 1ZRT5, 1ZRT6	64AAA590	**1ARU6**



No. 1ZRT4



Starrett®

Hardness Tester

Handles Rockwell scales A through H and K and provides reliable values on hard or soft metal and alloys. Includes diamond indentor, 1/16" ball indentor, 3 certified test blocks, 4 test tables, 5.87" and 2.5" flat anvils, 5/8" spot anvil, and a standard vee anvil. Also includes case.

Description	Mfr. Model	Item No.
Analog Hardness Tester	3814	2ZUP4



No. 6NRD9

Mitutoyo

Digital Tachometers

- 5 digit LCD display
- Min., Max., and Final memory

Measure total revolutions, revolutions per minute, surface speed, and length. Include plastic carrying case, batteries, cone adapter, funnel adapter, and 6" measuring wheel. No. 6NREO also features laser diode detection and makes both contact and noncontact measurements. NIST certified.

Contact RPM Range	Noncontact RPM Range	Mfr. Model	Item No.
1 to 25,000	—	982-551	6NRD9
6 to 25,000	6 to 99,999	982-552	6NREO



No. 6PCN7

Starrett®

Granite Surface Plates and Accessories

Note: More sizes are available, go to Grainger.com®.

CRYSTAL PINK GRANITE SURFACE PLATES

Calibration is NIST certified. Meet U.S. MIL-I-45208A and Federal Spec. ASME B89.3.7 for flatness.

Grade B Toolroom plates are for production checking work throughout a shop.

Grade A Inspection plates are for general quality control work.

Grade AA Laboratory plates are for precision operations in constant temperature gaging rooms and metrology departments.

STONE CLEANERS

Prevent abrasion of tools by dirt and other foreign particles. Waterless cleaner is also a degreaser and rust inhibitor and should be used without water.

	GRADE B TOOLROOM				GRADE A INSPECTION				GRADE AA LABORATORY			
Surface Size (in.)	Flatness Unilateral Tolerance (in.)	Thickness (in.)	Weight (lb.)	Item No.	Flatness Unilateral Tolerance (in.)	Thickness (in.)	Weight (lb.)	Item No.	Flatness Unilateral Tolerance (in.)	Thickness (in.)	Weight (lb.)	Item No.
Crystal Pink Granite Surface Plates												
12 x 12	0.000200	4	55	6PCU5	0.000100	4	55	6PCT1	0.000050	4	55	6PCN7
12 x 18	0.000200	4	83	6PCU6	0.000100	4	85	6PCT2	0.000050	4	85	6PCN8
18 x 18	0.000200	4	125	6PCU7	0.000100	4	125	6PCT3	0.000050	4	125	6PCN9
18 x 24	0.000300	4	165	6PCU8	0.000150	6	248	6PCT4	0.000075	6	248	6PCR0
24 x 24	0.000300	4	220	6PCU9	0.000150	6	330	6PCT5	0.000075	6	330	6PCR1
24 x 36	0.000400	6	495	6PCV0	0.000200	6	495	6PCT6	0.000100	6	495	6PCR2
30 x 48	0.000700	6	950	6PCV1	—	—	—	—	0.000168	10	1585	6PCR3
36 x 36	0.000600	6	745	6PCV2	0.000300	6	745	6PCT8	—	—	—	—
36 x 48	0.000800	6	990	6PCV3	0.000400	8	1320	6PCT9	0.000200	8	1320	6PCR5
36 x 60	0.001000	8	1650	6PCV4	0.000500	10	2065	6PCU0	—	—	—	—
36 x 72	0.000900	6	1520	6PCV5	—	—	—	—	0.000300	12	2972	6PCR7
48 x 48	0.000900	6	1520	6PCV6	0.000500	8	2030	6PCU2	—	—	—	—

Description	Item No.
Stone Cleaners	
Liquid, 1 qt. Cleaner, Pk. Qty. 12	6RDL3
Liquid, 1 gal. Cleaner, Pk. Qty. 4	6RDL2
Waterless, 1 lb. Cleaner, Pk. Qty. 12	6RDL4



Rolling
No. 6PDC6



Stationary
No. 45ND83

GA GRAINGER APPROVED Starrett®

Surface Plate Stands

- Preassembled

GA

Steel angle stands are 40"H. Stationary stands include 3 screws. Rolling stands include 3 screws and 4" casters.

STARRETT®

Constructed from welded square steel tubing. Stationary stands include 2" leveling adjustment. Rolling stands include 2 rigid and 2 swivel casters and have caster locks.

Plate Length	Plate Width	STATIONARY Item No.	ROLLING Item No.
Starrett			
12"	18"	6PDA1	6PDC6
18"	18"	6PDA2	6PDC7
	24"	6PDA3	6PDC8
24"	24"	6PDA4	6PDC9
	36"	6PDA5	6PDD0
	48"	—	6PDD1
30"	48"	—	6PDD2
36"	36"	6PDA8	6PDD3
	48"	6PDA9	6PDD4
	60"	6PDC0	6PDD5
GA			
18"	12"	45ND83	45ND84
24"	18"	45ND85	45ND86
36"	24"	45ND87	45ND88
48"	36"	45ND89	45ND90

WESTWARD®

Scribers

MACHINIST

Durable steel handles. No. 4KY26 has a solid knurled handle.

POCKET

Mitutoyo scribers have pen-style handles with pocket clip and push-button head.

Point Type	Tip Material	Replaceable Tip	Threaded Points	Overall Length (in.)	Item No.
Machinist					
(2) Straight/(1) 90°	Hardened Steel	No	Yes	9 in	**4KY26**
Pocket					
Straight	Hardened Steel	No	Yes	4 ¾ in	**4KY29**
Straight	Carbide	No	No	5 in	**4KY32**



No. 4KY26



No. 4KY29



12-Pc.
No. 1XHP7



4-Pc.
No. 2KKV4



3-Pc.
No. 3G945

GENERAL® MAYHEW

Probe Sets

12-PC. PROBE AND POSITION

5" stainless steel blades, with hardened steel tips and ABS plastic handle and steel screwchuck. Includes fitted zippered case.

4-PC. HOOK AND PICK

2-composite ergonomic handles. Hardened and tempered steel shaft extends through the handle to the striking cap.

4-PC. PROBE

Mini-tool style with heat-treated, alloy steel fixed blades. Chrome plated with ABS plastic handle.

3-PC. PROBE

Heat treated and mounted in body with hex head, with knurled aluminum handle.

Description	Point Type	Overall Length (in.)	Brand	Mfr. Model	Item No.
12-Pc. Probe and Position Set	Straight, 35° Bend, 90° Bend, 180° Loop, Double Bend, 180° Hook, Offset Pull Hook, 135° Pull Hook, Pull/Push Hook, Adjusting Pull/Push Hook, Placement Guide/Lifter, and 5" Extension	7½ to 8½	General	707865	**1XHP7**
4-Pc. Mini Hook and Pick Set	Straight, 90°, Curved, and Complex Hooks	6½	Mayhew	60003	**2KKV4**
4-Pc. Probe Set	Straight, 180° Hook, 35° Bend, 90° Bend	6	General	60004	**1XHP8**
3-Pc. Probe Set	45°, Hook Bend, Double Bend	6½	General	862	**3G945**



No. 2ZVG8



No. 2ZVH9

Starrett®

Pin Vises

Securely hold small stock, taps, drills, reamers, scribers, wire, small files, etc. Knurled handle end allows for fast opening and closing, while octagonal shape helps prevent rolling. Full-length holes allow vise to accommodate any wire length.

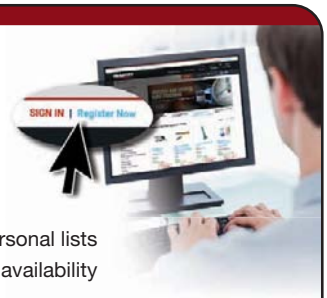
Range (in.)	Handle	Mfr. Model	Item No.
Double End			
0 to 0.125	Round, Knurled Steel	165	**2ZVG8**
Tapered Collet			
0.110 to 0.200	Round, Knurled Steel	240D	**2ZVH8**
0.045 to 0.135	Round, Knurled Steel	240C	**2ZVH7**
0.025 to 0.075	Round, Knurled Steel	240B	**2ZVH6**
0.010 to 0.055	Round, Knurled Steel	240A	**2ZVH5**
Straight Collet			
0.115 to 0.187	Octagon PVC	166D	**2ZVH3**
0.050 to 0.125	Octagon PVC	166C	**2ZVH2**
0.030 to 0.062	Octagon PVC	166B	**2ZVH1**
0 to 0.040	Octagon PVC	166A	**2ZVG9**
0.115 to 0.187	Round, Knurled Steel	162D	**2ZVG6**
0.050 to 0.125	Round, Knurled Steel	162C	**2ZVG5**
0.030 to 0.062	Round, Knurled Steel	162B	**2ZVG4**
0 to 0.040	Round, Knurled Steel	162A	**2ZVG3**
4-Pc. Sets w/Case			
0.010 to 0.200	Round, Knurled Steel	S240Z	**2ZVH9**
0 to 0.187	Octagon PVC	S166Z	**2ZVH4**
0 to 0.187	Round, Knurled Steel	S162Z	**2ZVG7**

REGISTER NOW!

Enjoy These Features & More!

- ☑ **Access** your pricing
- ☑ **View** order history
- ☑ **Save favorites** to your personal lists
- ☑ **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!





No. 42W857



No. 42W876



No. 446N38



No. 18F194



No. 2LKP9

Milling and Mill/ Drill Machines

MILLING

Step Pulley—Use belts to manually change speeds. For more information, see Grainger.com®.

Variable Speed—JET models have hand-wheel adjustment to set speed and internally cooled spindle head. For more information, see Grainger.com®.

CNC Vertical—Feature 3-stage power downfeed with automatic stop, internally cooled spindle head and heavy-duty spindle brake. ACU-RITE MILLPWR® CNC 2- or 3-axis control.

MILL/DRILL MACHINES

Provide accurate milling, drilling, and boring capabilities. Sharp models have a 10" to 20" lathe capacity.

Motor HP	Voltage	Phase	Spindle Speed (rpm)	Spindle to Table	Table Size (in.)	T-Slot Size (in.)	Cross Travel (in.)	Longitudinal Travel (in.)	Brand	Mfr. Model	Item No.
Step Pulley Milling Machines											
1½	115/230	1	240 - 1550	—	7⅞ x 35¾	3, ⅝	9½	22.25	JET	690036	**42W773**
2	230	3	80 to 5440	17½"	9 x 42	3, ⅝	12½	23.87	JET	690082	**42W857**
3	220	3	80 to 3800	—	10 x 54	⅝	35 7/16	15.75	Baileigh	VM-1054-3	**31XW13**
5	220	3	80 to 3800	—	12 x 58	⅝	36 39/64	15.75	Baileigh	VM-1258-3	**31XW14**
With X-Axis Powerfeed											
2	115/230	1	80 to 2720	17½"	9 x 42	3, ⅝	12½	23.87	JET	690006	**42W772**
Variable Speed Vertical Milling Machines											
2	115/230	1	60 to 4200	17½"	9 x 49	3, ⅝	12	34.00	JET	690180	**5CEZ4**
3	230	3	60 to 5000	18¾"	9 x 49	3,5/8	12	36.00	JET Elite	894050	**20UT75**
With X-Axis Powerfeed											
3	230/460	3	60 to 4500	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894172	**20UT63**
	230/460	3	60 to 4500	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894176	**20UT64**
With 2-Axis ACU-RITE 200S											
3	230/460	3	60 to 4200	17½"	9 x 49	3, ⅝	12	34.00	JET	690202	**42W871**
With 3-Axis ACU-RITE 200S (Quill) DRO											
3	230	3	60 to 5000	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894392	**20UT88**
CNC Vertical Milling Machines											
3-Axis											
3	230/460	3	60 to 4200	17½"	9 x 49	3,5/8	12	34.00	JET	690948	**42W876**

Swing	Motor HP	Voltage	Phase	Drilling Cap. Steel	End Milling Capacity	Spindle Speed	Spindle Travel	Spindle to Table	Table Work Surface	T-Slots	Cross Travel	Longitudinal Travel	Brand	Item No.
Mill Drill Machines														
10"	5	220	3	¾"	¾"	60 to 4500	18"	5⅛" to 23⅜"	10" x 56"	⅝"	16½"	36"	Sharp	**446N40**
	5	220	3	¾"	¾"	70 to 4000	16"	2" to 18"	12" x 58"	⅝"	16"	40"	Sharp	**446N38**
	5, 7½	220	3	¾"	¾"	120 to 3600	18"	5 9/16" to 23"	11 51/64" x 51 19/64"	⅝"	14 13/16"	37 9/16"	Sharp	**446N41**
	7½	220	3	¾"	¾"	35 to 1382	18½"	0" to 18½"	11 51/64" x 51 19/64"	⅝"	14 13/16"	37 9/16"	Sharp	**446N39**
	10	220	3	1"	¾"	45 to 1500	20"	4" to 24"	14 29/32" x 67"	⅜"	14 29/32"	39 9/16"	Sharp	**446N42**
	10	220	3	1½"	¾"	45 to 1500	47"	47"	31½" x 43 19/64"	⅜"	47"	55"	Sharp	**446N48**
	10	220	3	1½"	¾"	45 to 1500	55"	55"	31½" x 59 19/64"	⅜"	55"	70 29/32"	Sharp	**446N49**
	15	220	3	1"	¾"	45 to 1500	22"	4" to 26"	17 19/32" x 74 51/64"	⅜"	17 39/64"	47¼"	Sharp	**446N43**
	20	220	3	1"	¾"	45 to 1500	27"	2¾" to 30 5/16"	29½" x 106 19/64"	⅜"	31½"	78 45/64"	Sharp	**446N46**
	20, 7½	220	3	1"	¾"	45 to 1500	27"	2¾" to 30 5/16"	29½" x 106 19/64"	⅜"	31½"	78 45/64"	Sharp	**446N47**
	20	220	3	1"	¾"	45 to 1500	31½"	4" to 35½"	19 19/32" x 86 19/32"	⅜"	23 39/64"	59"	Sharp	**446N44**
	20, 7½	220	3	1"	¾"	45 to 1500	31½"	4" to 35½"	19 19/32" x 86 19/32"	⅜"	23 39/64"	59"	Sharp	**446N45**
14½"	1	115/230	1	1"	½"	110 to 2580	3½"	15"	7½" x 23"	3, ⅜	6"	14"	JET	**42W854**
15⅞"	2	120/240	1	1¼"	¾"	150 to 3000	5"	18"	9½ x 32¼"	⅝"	6½"	20½"	JET	**18F194**
16"	1½	120/240	1	1½"	¾"	150 to 3000	5"	17"	9½" x 32"	⅝"	7"	23"	Dayton	**2LKP9**
	1½	120/240	1	1½"	¾"	150 to 3000	5"	17"	9½" x 32"	⅝"	7"	23"	Dayton	**2LKR1** *

** With power feed table.*

Dayton JET POWERMATIC

Drill Presses

GENERAL PURPOSE

Feature cast-iron base and adjustable worktable height. For use in woodworking shops, maintenance shops, and light industrial applications. Radial arm drill presses are for use on large, heavy work or where many holes need to be drilled. Designed to allow the head to move horizontally.

HEAVY DUTY

Belt-drive presses feature cast-iron head and adjustable depth stop. For maintenance shops and industrial applications. No. 2LKU8 Precision Micro Drill is for instrument, electronic, jewelry, and research applications. JET® models feature 45° table tilt and a wide range of spindle speeds. Dayton® presses offer digital readout of depth and speed.

PRODUCTION

Designed with heavy-duty motors and precision machined surfaces for heavy workloads.

Step Pulley—Spindle speeds are limited by pulley size. Speeds can be changed to match the material being drilled.

Variable Speed—JET models Nos. 52XJ02 and 52XJ03 feature power down feed system that allows a manual switch from tapping to hands-free drilling in 3 speeds. Nos. 3WRN7 and 3WRP9 have a safety collar, 6" stroke for deep hole application, and 2¼" quill. Speeds are adjusted using a hand wheel.



No. 36VE10



No. 2LKU8



No. 3WRP5

Swing	Motor HP	Voltage	Amps AC	Capacity Cast Iron	No. of Speeds	Spindle Speed (RPM)	Spindle Taper	Spindle Travel	Spindle to Table	Column Dia.	Table Work Surface	Table Slot Size	Overall Height	Overall Width	Overall Depth	Brand	Item No.
General Purpose Bench Drill Press																	
10"	⅓	120	4.1	½"	5	650 to 3070	33JT	2½"	10¾"	2⁹⁄₃₂"	7¹³⁄₁₆" x 7¹³⁄₁₆"	⁹⁄₁₆"	27½"	11¼"	19¼"	Dayton	**16N196**
General Purpose Floor Drill Press																	
16½"	¾	115/230	9.0/4.5	⅝"	16	200 to 3630	2MT	4⅜"	29⅛"	3⅛"	13¾"	½"	54½"	23½"	12¾"	JET	**25CH39**
16⅞"	¾	115	—	—	16	210 to 3500	2MT	5"	29"	3⁹⁄₃₂"	14" x 19"	⅝"	65"	16"	28½"	JET	**45CA74**
18"	1	115/230	15.0/7.5	—	Variable	250 to 3000	JT3/MT2	6"	30"	3⅛"	20" x 14"	⅜"	71"	20¼"	18"	Powermatic	**36VE10**
20"	1½	115/230	—	1"	12	150 to 4200	3MT	4⅝"	29⅛"	3⅜"	18½" x 16"	½"	58"	26½"	13"	JET	**18F196**
Radial Arm																	
5"	7½	230/460	12.0/6.0	2⁵⁄₁₆"	12	40 to 1920	5MT	14⁹⁄₁₆"	35"	17"	27⅞ x 19⅝ x 15¾"	⅞"	116"	55"	112"	JET	**42W828**
36"	3	230/460	8.2/4.1	2"	6	88 to 1500	4MT	8²¹⁄₃₂"	23¹³⁄₁₆"	8¼"	23⅝" x 17½" x 15"	¾"	83"	64"	32"	JET	**42W834**
48"	2½ to 5	230	18.0	2⁵⁄₁₆"	12	44 to 1500	4MT	9⅞"	35"	11¹³⁄₁₆"	25" x 20½" x 16⁵⁄₁₆"	¾"	89"	39"	80"	JET	**25CH33**
Heavy Duty Precision Micro Bench Drill Press																	
9⅝"	¼	115	3.0	⅛"	Variable	2,000 to 12,000	0JT	1¹⁄₁₆"	8"	1¾"	7⅜" x 7⅝"	⁷⁄₁₆"	20"	8¾"	13"	Dayton	**2LKU8**
Heavy Duty Bench Drill Press																	
15"	¾	115/230	9.0/4.5	⅝"	16	200 to 3630	2MT	3⅛"	15½"	2⅞"	9½" x 9½"	—	39"	13⅜"	31"	JET	**3WRP4**
Heavy Duty Floor Drill Press																	
15"	¾	115/230	9.0/4.5	⅝"	16	200 to 3630	2MT	3⅛"	24½"	2⅞"	9½" x 9½"	—	63½"	13⅜"	31"	JET	**3WRP3**
20"	1	115/230	9.0/4.5	¾"	12	150 to 4200	3MT	4¾"	21½"	3⅜"	15½" x 13½"	½"	67"	18½"	33½"	JET	**3WRP5**
Production Floor Drill Press																	
Step Pulley																	
15"	1	115/230	14.0	⅝"	6	400 to 5000	2MT	6"	25¾"	3"	12½" x 14 ½"	½"	71"	20"	30"	JET	**42W844**
20"	1	120/240	16.0/8.0	1¼"	12	140 to 2600	MT3	5"	26⅜"	4"	15" x 13"	⅝"	70½"	22½"	32½"	Dayton	**49G986**
Variable Speed																	
20"	2	115/230	25.0/13.0	1¼"	Variable	300 to 2000	3MT	6"	30¼"	4½"	22" x 18½"	⅝"	79³⁵⁄₆₄	27⁵⁄₃₂	38³⁄₁₆"	JET	**53ZC49**
	2	230	7.0/6.6	1 ¼"	Variable	300 to 2000	3MT	6"	30¼"	4½"	22" x 18½"	⅝"	79³⁵⁄₆₄	27⁵⁄₃₂	38³⁄₁₆"	JET	**53ZC51**
	2	230/460	7.0/3.5	1 ¼"	Variable	300 to 2000	3MT	6"	30¼"	4½"	22" x 18½"	⅝"	79³⁵⁄₆₄	27⁵⁄₃₂	38³⁄₁₆"	JET	**53ZC50**
	2	230	9.2	1½"	Variable	65 to 2000	3MT	6	30¼"	4½"	18⅛" x 14¾"	⅝"	79½"	27"	38³⁄₁₆"	JET	**52XH99**
	2	230	9.2	1½"	Variable	65 to 2000	3MT	6	30¼"	4½"	18⅛" x 14¾"	⅝"	79½"	27"	38³⁄₁₆"	JET	**52XJ02**
	2	460	9.2	1½"	Variable	65 to 2000	3MT	6	30¼"	4½"	18⅛" x 14¾"	⅝"	79½"	27"	38³⁄₁₆"	JET	**52XJ01**
	2	460	9.2	1½"	Variable	65 to 2000	3MT	6	30¼"	4½"	18⅛" x 14¾"	⅝"	79½"	27"	38³⁄₁₆"	JET	**52XJ03**
15"	1	115/230	16.0/8.0	⅝"	Variable	400 to 5000	2MT	6"	25¾"	3"	12½" x 14½"	½"	71"	20"	30"	JET	**3WRN7**
	1	230/460	6.2/3.1	⅝"	Variable	400 to 5000	2MT	6"	25¾"	3"	12½" x 14½"	½"	71"	20"	30"	JET	**3WRP9**

GA GRAINGER APPROVED

Drill Press Guards

Telescopic drill guards collapse and extend when the spindle is raised and lowered. Fit drill presses with exposed lower spindle bearing collars.

Max. Chuck Dia. (in.)	Lower Spindle Bearing Collar Dia.(in.)	Max. Stroke (in.)	Min. Stroke (in.)	Item No.
2⅛	1¾ to 3	6¼	3½	**29DY67**
2⅝	1¾ to 3½	10½	4¾	**29DY68**
2¾	1¾ to 3½	7	4⁵⁄₁₆	**29DY69**
3	1¾ to 3½	7	4⁷⁄₁₆	**29DY70**



No. 29DY68



No. 29DY70

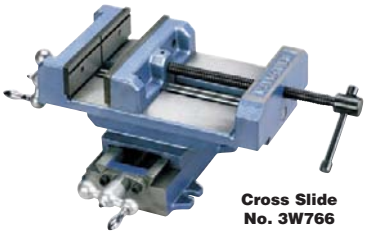
Scan. Order. Done.
Details on page A1.



Drill Press
No. 6Z847



Angle
No. 6Z844



Cross Slide
No. 3W766



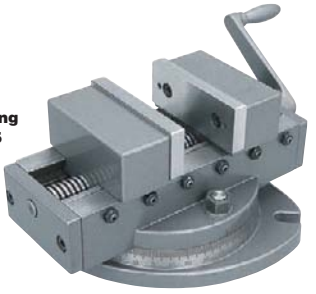
Milling Machine
No. 4KXE7



Milling Machine
No. 24W155



Toolmaker's
No. 19F401



Self-Centering
No. 4CPF5

Dayton | PALMGREN INC | WILTON | Starrett | TE-CO

Machining Vises

Drill Press—Rectangular shape for drilling, tapping, reaming, and grinding. Can be used lying on base, sides, or end.

Angle—For angle set ups from 0° to 90°. Available with angle, trunnion, or swivel bases.

Cross Slide—For precise X and Y axis positioning.

Milling Machine—For milling and grinding. Hold workpiece between a stationary jaw and a moveable jaw.

Toolmaker's—For tool manufacturing, milling, and grinding. Fixed base and one moveable jaw.

Self-Centering—For use when accurate work centering is required. Have two moveable jaws.

Description	Jaw Width (in.)	Jaw Opening (in.)	Brand	Item No.
Drill Press				
Drill Press	4	4	Dayton	**3W761**
	6	6"	Dayton	**4TK04**
Standard Drill	4	4	Dayton	**6Z846**
	6	6	Dayton	**6Z847**
	8	8"	Dayton	**4TK03**
Quick-Release	3	3"	Dayton	**4TK06**
	4	4"	Dayton	**4TK05**
	8	8"	Dayton	**4YG29**
Quick-Action Drill Press	4½	4¾	Dayton	**4CPG2**
	6	6¾	Dayton	**4CPG3**
3-Way Drill Press	4	3½	Dayton	**4CPG1**
Drill Press	1½	1½	Palmgren	**4KXD2**
	2 7/16	3	Palmgren	**4KXD3**
	2 7/16	2½	Palmgren	**4KXD4**
	3	3	Palmgren	**4KXD5**
	4	4	Palmgren	**4KXD6**
	6	6	Palmgren	**4KXD7**
Standard	4	4½	Wilton	**24W025**
Standard, Low Profile	6	6	Wilton	**41D445**
	8	8	Wilton	**41D446**
Angle				
Angle w/Angle Base	4	4"	Dayton	**4TK07**
	6	6¾"	Dayton	**4TK08**
Angle w/Trunnion Base	4	4"	Dayton	**6Z844**
2-Way Angular Machine w/Swivel Base	4	4	Dayton	**4CPF1**
	6	6	Dayton	**4CPF2**
3-Way Tilting Machine w/Swivel Base	4	4	Dayton	**4CPF3**
Angle w/Stationary Base	2	2⅜	Palmgren	**19F403**
Angle, Fixed Base	2 7/16	2½	Palmgren	**4KXE2**
Cross Slide				
Cross	3	3"	Dayton	**4YG28**
	6	6	Dayton	**6Z848**
	8	8"	Dayton	**3W766**
Cross Slide	3	3	Palmgren	**4KXF3**
	4	4	Wilton	**41D448**
	6	6	Wilton	**41D450**
	8	8	Wilton	**41D451**
Milling Machine				
Milling Machine w/ Swivel Base	6	6	Dayton	**4CPE9**
	6	7½	Dayton	**3W764**
Cast Iron Milling Machine w/Swivel Base	6	6	Dayton	**3W765**
Milling Machine w/ Swivel Base	4	4	Palmgren	**4KXE7**
	6	6	Palmgren	**4KXE9**
Milling Machine	6	8¾	Palmgren	**19F396**
Verti-Lock® Machine w/Fixed Base	5	4½	Wilton	**24W068**
	6	7½	Wilton	**24W155**
Fixed Base	5.94	9.00	Te-Co	**6GJP4**
Verti-Lock® Machine w/Fixed Base	8	7½	Wilton	**24W067**
Toolmaker's				
Toolmaker's Screwless	2	2½	Dayton	**16Y479**
	2⅞	4	Dayton	**16Y480**
Toolmaker's Machine	⅜	2	Starrett	**4CEN3**
	2½	3⅜	Dayton	**16Y478**
	2	2½	Palmgren	**19F401**
	4	4 59/64	Palmgren	**19F402**
Self-Centering				
Self-Centering w/ Swivel Base	4	4	Dayton	**4CPF5**
	6	6	Dayton	**4CPF6**

Description	For Use With	Item No.	Pkg. Qty.
Dayton Replacement Jaws			
4"	4CPE8, 4CPF1, 4CPF3, 4CPF5	**4CPG4**	2
4"	4CPG1	**4CPG9**	2
6"	4CPE9, 4CPF2, 4CPH1	**4CPG6**	2
Dayton Handles			
4"	4CPE8,4CPF2,4CPF3	**4CPH1**	1
6"	4CPE9, 4CPF2, 4CPF4	**4CPH2**	1



Starter Kit
No. 4LEX9

Dayton

Milling Accessories

- For Starter Kit contents, see Grainger.com®

Description	Item No.
Starter Kits	
29-Pc. Milling Machine Starter Kit	**4LEX9**
99-Pc. Milling Machine Starter Kit	**4LEY1**
End Mill Kits	
10-Pc. HSS End Mill Kit, Includes (10) 4-Flute Single End Mills and Case, 3/16" To ¾" Cap.	**16N203**
20-Pc. HSS End Mill Kit, Includes (10) 2-Flute Single End Mills, (10) 4-Flute Single End Mills and Case, 3/16" To ¾" Cap.	**16N204**
Collet Sets	
12-Pc. ER22-R8 Collet Set, 3/32" to ¾"	**11A471**
12-Pc. R8 Collet Set w/Rotating Holder, ⅛", 3/16", ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾" Cap.	**5PZP0**
Milling Accessories	
5-Axis Multi-Position Work Stop; Fits ⅝" Table Slots	**4LEX8**
Polycarbonate Swing Away Safety Guard	**36FX30**
Machine Tool Coolant Pump	**11A473**


No. 52XJ11


No. 42W780


No. 20UT58


No. 42W791


No. 446N50

Lathes

Wood Lathes—Headstock slides the full length of bed and pivots 360° with 7 positive locking positions. Includes 4" cast iron riser to choose work height.

Bench Lathes—Belt-drive lathes allow quick changing between standard and metric gears.

Engine Lathes—Feature micro-carriage stops, integrated coolant system, and foot brake.

Large Spindle Bore Lathes—Universal gearbox allows inch, metric, diametral, and module pitch threads. Feature 5-position automatic carriage stop, integrated coolant system, and removable gap for large dia. workpieces.

Metal Turning Lathes—3-phase hollow spindle lathes are excellent for heavy-duty jobs, such as large oil pipe work, large aerospace parts, and heavy shaft turning.

Swing Over Bed (in.)	Distance Between Centers (in.)	Swing In Gap (in.)	Compound Travel (in.)	Carriage Travel (in.)	Cross Travel (in.)	Spindle Bore (in.)	No. of Spindle Speeds	Spindle Speed (rpm)	Tailstock Travel (in.)	Tailstock Taper	Longitudinal Feed Rates	Motor HP	Phase	Voltage	Brand	Mfr. Model	Item No.	
Wood Lathes																		
18½	40	—	—	—	—	⅝	Variable	40-3200	—	—	—	2	3	230	JET	JWL-1840EVS	**52XJ11**	
Bench Lathes																		
13	40	18¾	2 11/16	35	6 5/16	1⅜	12	60-1240	3¾	MT3	38	2	1	230	JET	321102AK	**42W780**	*
Engine Lathes, Geared Head																		
12	36	17½	3½	33	6¾	1 9/16	Variable	40-2000	4	MT3	0.0016-0.046	2	1, 3	230	JET Elite	892305	**20UT58**	
Large Spindle Bore Lathes																		
14	40	23⅜	5⅛	36 9/16*	9	3⅛	12	42-1800	5	MT5	122	7½	3	230/460	JET	321469	**42W791**	‡
18	80	27½	5⅛	74 5/16*	9	3⅛	12	25-1800	5	MT5	122	7½	3	230/460	JET	321970	**42W810**	
26	80	34	5½	72½	12 3/32	4⅛	12	36-1600	6	MT5	65	10	3	230/460	JET	321860	**42W815**	
Metal Turning Lathes																		
11	18	9	3	18	6	1⅛	Variable	130-4000	3¾	MT2	0.3125-7	5	3	220	Sharp	1118H	**446N50**	
16	40	24⅜	4⅞	40	8 45/64	3 9/64	12	20-2000	5	MT4	0.002-0.032	7½	3	220/440	Sharp	1640L	**446N51**	
	40	24⅜	4⅞	60	8 45/64	3 9/64	Variable	20-2000	5	MT4	0.002-0.032	7½	3	220	Sharp	1640LV	**446N52**	
	60	24⅜	4⅞	60	8 45/64	3 9/64	12	20-2000	5	MT4	0.002-0.032	7½	3	220/440	Sharp	1660L	**446N53**	
	60	24⅜	4⅞	60	8 45/64	3 9/64	Variable	20-2000	5	MT4	0.002-0.032	7½	3	220	Sharp	1660LV	**446N54**	
18½	60	27¼	5¼	60	9⅛	3 9/64	12	40-2000	5	MT5	0.002-0.032	7½	3	220/440	Sharp	1860L	**446N55**	
	60	27¼	5¼	80	9⅛	3 9/64	Variable	20-2000	5	MT6	0.002-0.032	7½	3	220	Sharp	1860LV	**446N56**	
	80	27¼	5¼	80	9⅛	3 9/64	12	40-2000	5	MT7	0.002-0.032	7½	3	220/440	Sharp	1880L	**446N57**	
	80	27¼	5¼	80	9⅛	3 9/64	Variable	20-2000	5	MT8	0.002-0.032	7½	3	220	Sharp	1880LV	**446N58**	
22	40	31	7¾	40	14¾	4 47/64	12	10-1000	6½	MT9	0.002-0.032	15	3	220	Sharp	2240B	**446N59**	
	80	31	7¾	80	14¾	4 47/64	12	10-1000	6½	MT10	0.002-0.032	15	3	220	Sharp	2280B	**446N60**	
	100	31	7¾	100	14¾	4 47/64	12	10-1000	6½	MT11	0.002-0.032	15	3	220	Sharp	22100B	**446N61**	
	120	31	7¾	120	14¾	4 47/64	12	10-1000	6½	MT5	0.002-0.032	15	3	220	Sharp	22120B	**446N62**	
	160	31	7¾	160	14¾	4 47/64	12	10-1000	6½	MT13	0.002-0.032	15	3	220	Sharp	22160B	**446N63**	
26	40	35	7¾	40	14¾	4 47/64	12	10-1000	6½	MT14	0.002-0.032	15	3	220	Sharp	2640B	**446N64**	
	80	35	7¾	80	14¾	4 47/64	12	10-1000	6½	MT15	0.002-0.032	15	3	220	Sharp	2680B	**446N65**	
	100	35	7¾	100	14¾	4 47/64	12	10-1000	6½	MT16	0.002-0.032	15	3	220	Sharp	26100B	**446N66**	
	120	35	7¾	120	14¾	4 47/64	12	10-1000	6½	MT17	0.002-0.032	15	3	220	Sharp	26120B	**446N67**	
	160	35	7¾	160	14¾	4 47/64	12	10-1000	6½	MT18	0.002-0.032	15	3	220	Sharp	26160B	**446N68**	
30	80	40	7¾	80	15 13/16	4½	12	11-1000	6½	MT19	0.002-0.032	15	3	220	Sharp	3080B	**446N69**	
	100	40	7¾	100	15 13/16	4½	12	13-1000	6½	MT20	0.002-0.032	15	3	220	Sharp	30100B	**446N70**	
	120	40	7¾	120	15 13/16	4½	12	15-1000	6½	MT21	0.002-0.032	15	3	220	Sharp	30120B	**446N71**	
	160	40	7¾	160	15 13/16	4½	12	17-1000	6½	MT22	0.002-0.032	15	3	220	Sharp	30160B	**446N72**	
40	60	57	14 9/16	60	14 39/64	6	16	4-420	12	MT23	0.0024-0.28	30	3	220	Sharp	4060M	**446N73**	
	240	51	15¾	240	27 9/16	6	16	4-420	12	MT24	0.0024-0.28	30	3	220	Sharp	40240-32M	**446N74**	
50⅜	60	67¼	14 9/16	60	23 39/64	6	16	4-420	12	MT25	0.0024-0.28	30	3	220	Sharp	5060M	**446N75**	
	240	61⅜	15¾	240	23 39/64	6	16	4-420	12	MT26	0.0024-0.28	30	3	220	Sharp	50240-32M	**446N76**	
60 3/16	60	77 3/16	14 9/16	60	23 39/64	6	16	4-420	11 13/16	MT27	0.0024-0.28	30	3	220	Sharp	6060M	**446N77**	
	240	71¼	15¾	240	23 39/64	6	16	4-420	11 13/16	MT28	0.0024-0.28	30	3	220	Sharp	60240-32M	**446N78**	
70⅞	80	81⅛	15¾	70	27 9/16	6	16	4-420	20⅞	MT29	0.0024-0.28	30	3	220	Sharp	7080M-32	**446N79**	
	315	81⅛	15¾	70	27 9/16	6	16	4-420	12	MT30	0.0024-0.28	30	3	220	Sharp	70315-32M	**446N80**	
80¼	80	91¼	15¾	80	27 9/16	6	16	4-420	12	MT31	0.0024-0.28	30	3	220	Sharp	8080-32M	**446N81**	
	315	91¼	15¾	80	27 9/16	6	16	4-420	12	MT32	0.0024-0.28	30	3	220	Sharp	80315-32M	**446N82**	

**** With stand. ‡ With Acu-Rite 200S 2-Axis DRO***

How to Select a Live Center

1. Determine machine's taper.
2. Determine the weight of the workpiece, while taking cutting forces into consideration. Weight of workpiece noted next to each item is the maximum weight the live center can safely carry.
3. Determine required operating speed.
4. Determine point style that best suits application. Standard points are best when rigidity and weight requirements are most important. Tracer points and Long points offer maximum tool clearance for typical lathe applications.



Dual-Bearing Bull Head No. 41LK14



Quad-Bearing CNC Carbide Point No. 41LJ99



Tri-Bearing Design CNC Point No. 41LJ92



Dead Center No. 41LJ59

Point Type	Morse Taper	Incl. Angle (Deg.)	Accuracy	Item No.
High Speed Steel Dead Center				
Carbide Threaded Point	3 MT	60	±0.00005"	**41LJ72**
	4 MT	60	±0.00005"	**41LJ73**
	5 MT	60	±0.00005"	**41LJ74**
Full Carbide Point	2 MT	60	±0.00005"	**41LJ64**
	3 MT	60	±0.00005"	**41LJ65**
	4 MT	60	±0.00005"	**41LJ66**
	5 MT	60	±0.00005"	**41LJ67**
Full Point	2 MT	60	±0.00005"	**41LJ59**
	3 MT	60	±0.00005"	**41LJ60**
	4 MT	60	±0.00005"	**41LJ61**
	5 MT	60	±0.00005"	**41LJ62**
Threaded Point	3 MT	60	±0.00005"	**41LJ69**
	4 MT	60	±0.00005"	**41LJ70**
	5 MT	60	±0.00005"	**41LJ71**

ROYAL PRODUCTS

Live & Dead Centers

Bull Head Point centers are shorter than pipe heads, reducing interference in blind center hole applications and ensuring that the load is positioned over the bearings. Tri-Bearing design enables both high rpms and good load ratings. Quad-Bearing centers (and No. 41LJ90) feature Royal Roto-Shield™ technology with a live center point machined from a solid bar incorporating a specially-shaped steel coolant slinger.

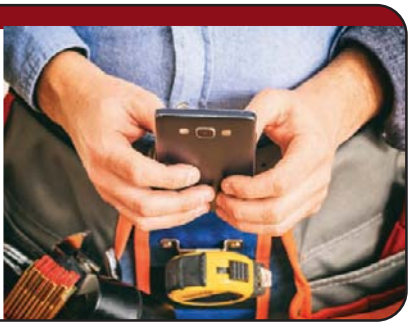
Point Type	Morse Taper	Weight of Workpiece (Lb.)	Max. RPM	Incl. Angle (Deg.)	Thrust Rating (lb.)	Accuracy	Item No.
High Speed Steel Live Center							
Dual-Bearing Design							
Bull Head	4 MT	860	4500	60	2550	±0.00005"	**41LK13**
	5 MT	860	4500	60	2550	±0.00005"	**41LK14**
	5 MT	1145	4000	60	3450	±0.00005"	**41LK16**
	5 MT	1450	3500	60	4500	±0.00005"	**41LK17**
Standard Point	3 MT	500	5000	60	1140	±0.00005"	**41LK19**
	4 MT	1070	3500	60	1810	±0.00005"	**41LK20**
Quad-Bearing Design							
CNC Carbide Point	4 MT	525	12,000	60	1380	±0.00005"	**41LJ99**
	5 MT	525	12,000	60	1380	±0.00005"	**41LK01**
CNC Point	2 MT	465	6000	60	1270	±0.00005"	**41LJ83**
	3 MT	465	6000	60	1270	±0.00005"	**41LJ84**
	4 MT	525	12,000	60	1380	±0.00005"	**41LJ97**
	4 MT	1230	5000	60	2150	±0.00005"	**41LJ85**
	5 MT	525	12,000	60	1380	±0.00005"	**41LJ98**
	5 MT	1230	5000	60	2150	±0.00005"	**41LJ86**
Standard Point	3 MT	885	6000	60	1270	±0.00005"	**41LJ78**
	4 MT	2240	5000	60	2150	±0.00005"	**41LJ79**
	5 MT	2240	5000	60	2150	±0.00005"	**41LJ80**
	5 MT	5240	3000	60	5300	±0.00005"	**41LJ81**
	6 MT	5240	3000	60	5300	±0.00005"	**41LJ82**
Tri-Bearing Design							
CNC Point	2 MT	375	6000	60	2360	±0.00005"	**41LJ92**
	3 MT	260	5000	60	315	±0.00005"	**41LK04**
	3 MT	740	5000	60	3900	±0.00005"	**41LJ93**
	4 MT	580	4500	60	435	±0.00005"	**41LK05**
	4 MT	1120	4500	60	4050	±0.00005"	**41LJ94**
	5 MT	1930	3500	60	5700	±0.00005"	**41LJ95**
	6 MT	2420	3500	60	6000	±0.00005"	**41LJ96**
Standard Point	2 MT	390	5000	60	3730	±0.00005"	**41LK09**
	2 MT	725	6000	60	2360	±0.00005"	**41LJ87**
	3 MT	390	5000	60	3730	±0.00005"	**41LK10**
	3 MT	940	5000	60	315	±0.00005"	**41LK02**
	3 MT	970	5000	60	3900	±0.00005"	**41LJ88**
	4 MT	685	4000	60	5000	±0.00005"	**41LK06**
	4 MT	750	4500	60	4990	±0.00005"	**41LK11**
	4 MT	1165	3500	60	5700	±0.00005"	**41LK07**
	4 MT	1400	4500	60	435	±0.00005"	**41LK03**
	4 MT	1720	4500	60	4050	±0.00005"	**41LJ89**
	5 MT	750	4500	60	4990	±0.00005"	**41LK12**
	5 MT	1165	3500	60	5700	±0.00005"	**41LK08**
	5 MT	3260	3500	60	5700	±0.00005"	**41LJ90**
	6 MT	4080	3500	60	6000	±0.00005"	**41LJ91**

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.




No. 21C004


No. 446N85


No. 2LKT4


No. 31XU48


No. 42W918


No. 53RU30

Horizontal and Miter Band Saws

HORIZONTAL

Dry Cut—Dayton® saw features swivel-vise jaw, adjustable blade guides, and auto shut-off at end of cut. On JET® No. 42W915, head swivels for a max. cut at 45° and 60°. Features hydraulic down feed control and enclosed stand with handle and wheels. No. 42W917 can be used in horizontal or vertical position.

Wet Cut—JET® No. 42W919 has hydraulic feed system and auto shut-off. JET Elite model No. 20UT92 features swing-away panel. Increased saw bed height. Dake® models feature hydraulic control. Dayton® No. 21C004 has rapid-acting vise and coolant tank. Marvel® models feature automatic indexing. Nos. 53RU25, 419J50, and 410J48 are post-style saws. SHARP wet cut saws are designed with programmable touch screen control of input quantity, material length, feed vise position, and auto kerf loss compensation. They also feature display blade speed, feed pressure, and auto shut down.

MITER

Dry Cut—Dual-mitering (swivel) No. 31XU48 cuts metals and more. Semiautomatic saw features hydraulic vise, feed, and return. Has automatic shut-off/broken blade feature. 1-phase No. 15V791 has a dual miter head up to 60°. Features hydraulic and manual descent.

Wet Cut—Dayton® saw features counterbalanced hydraulic feed system and coolant system with chip-flushing hose. JET® No. 42W918 features swivel head, quick-lock vise, coolant system, adjustable material stop, and hydraulic down-feed. JET Elite No. 20UT91 features swing-away panel that relocates saw controls to a single location, offering finger-tip operation of most major saw functions. Tungsten carbide blade guides with precision bearings stabilize the blade for increased accuracy and extended blade life. High-speed Marvel® mitering saws have swivel heads to help cut through metal. No. 53RU30 has hydraulic vise.

HP	Voltage	Speeds (FPM)	Cutting Capacity Round	Cutting Capacity Rectangle	Cutting Capacity Square	Miter Capacity	Max. Blade Length	Max. Blade Width	Blade Thickness	Overall H	Overall W	Overall D	Brand	Mfr. Model	Item No.
Band Saws															
Dry Cut															
½	115/230VAC	80 to 200	5"	5" x 6"	5 in	90°	64 ½ in	½"	0.025"	41"	20¾"	37"	JET	414457	**42W915**
Wet Cut															
½	115VAC	85 to 200	5"	7½" x 5"	5 in	90°	68 in	½"	0.025"	37"	16"	37"	JET	414453	**42W919**
¾	120VAC, 110VAC	85 to 235	7"	7" x 12"	7 in	45°	93 in	¾"	.035"	39"	21"	56"	Dake	983100	**40F055**
1	120/240VAC	96 to 260	7"	7" x 11¾"	7 in	45°	93 in	¾"	0.035"	39"	18"	49½"	Dayton	—	**21C004**
1	120/240VAC	125 to 270	7"	7" x 8"	7 in	45°	93 in	¾"	0.032"	39"	17½"	49½"	Dayton	21UM99	**21UM99**
1	120VAC, 110VAC	98 to 328	9"	9" x 12"	9 in	45°	104 ¼ in	1"	.035"	41"	21"	56"	Dake	983101	**40F056**
1	220VAC	59 to 96, 155 to 260	8"	10" x 10"	7 in	0°	100 ¾ in	1"	0.035"	45"	56"	24½"	Sharp	SW-80	**446N83**
2	220VAC	66 to 328	8"	10" x 10"	7 in	60°	100 ¾ in	—	—	55"	83"	65"	Sharp	SW-130HT	**446N91**
2	220VAC	75 to 121, 190 to 305	8"	10" x 10"	7 in	0°	100 ¾ in	1 1/16"	0.035"	78"	35½"	73"	Sharp	SW-100H	**446N84**
2	230VAC	53 to 257	10"	18" x 3½"	10 in	45°	132 ½ in	1"	0.035"	44"	30"	74"	JET Elite	891060	**20UT92**
3	220VAC	66 to 328	8"	10" x 10"	7 in	0°	100 ¾ in	1 1/16"	0.039"	70"	74 13/32"	72 13/16"	Sharp	SW100A	**446N85**
5	220VAC	66 to 328	8"	10" x 10"	7 in	0°	100 ¾ in	1 1/32"	0.043"	67"	74½"	75"	Sharp	SW-120A	**446N86**
5	220VAC	66 to 328	8"	10" x 10"	7 in	0°	100 ¾ in	—	—	78"	79"	79"	Sharp	SW-126AD	**446N87**
5	220VAC	66 to 328	8"	10" x 10"	7 in	0°	100 ¾ in	—	—	59"	—	—	Sharp	SW-120NC	**446N89**
5	220VAC	66 to 328	8"	10" x 10"	7 in	0°	100 ¾ in	—	—	75"	79"	79"	Sharp	SW-126NCD	**446N90**
5	220VAC	66 to 328	8"	10" x 10"	7 in	60°	100 ¾ in	—	—	98"	90"	114"	Sharp	SW-165HT	**446N92**
5	220VAC	66 to 328	9¾"	9¾" x 11"	7 in	0°	138 in	1 5/16"	—	60"	77"	85"	Sharp	SW-100NC	**446N88**
Wet Cut, Semi-Automatic															
3	230/460VAC	80 to 260	13"	13" x 19" or 10" x 21"	13 in	90°	161 ½ in	1¼"	0.042"	55"	32½"	87"	JET	414471	**42W914**
Horizontal/Vertical Band Saws															
Dry Cut															
½	115/230VAC	80 to 200	5"	5" x 5¾" or 2" x 6"	5 in	90°	64 ½ in	½"	0.025"	39½"	20"	36"	JET	414458	**42W917**
Wet Cut															
¾	115/230VAC	86 to 260	7"	7" x 12"	7 in	45°	93 in	¾"	0.032"	44"	17"	48"	JET	414560	**48RJ39**
Horizontal Band Saws															
Dry Cut															
⅓	115/230VAC	80 to 200	5"	5½" x 6½"	5 ½ in	45°	64 ½ in	½"	0.025"	36"	40"	19"	Dayton	—	**2LKT4**
2	220VAC	120 to 275	10"	10" x 18"	10 in	0° to 45°	158 ½ in	1 1/16"	0.035"	48"	81"	27"	Dayton	400H48	**400H48**
3	230VAC	120 to 275	13"	13" x 19"	13 in	0° to 45°	165 in	1 ⅛"	0.045"	54"	86"	32"	Dayton	400H49	**400H49**
Wet Cut															
1	120/240VAC	150 to 255	8"	8" x 12"	6 ¼ in	45°	93 ½ in	¾"	0.032"	42"	47"	18"	Dayton	48WE31	**48WE31**
Miter Band Saws															
Dry Cut															
1½	220VAC	66 to 280	8¾"	10 9/16" x 4 5/16"	8 ¾ in	45° Left, 60° Right	96 ⅞ in	1"	0.035"	62"	44"	63"	Baileigh Industrial	BS-260SA	**31XU48**
2	220VAC	66 to 280	10⅝"	13¾" x 8⅝"	10 ¼ in	45° to 90°	124 ½ in	1"	0.035"	48"	30"	69"	Baileigh Industrial	BS-350M	**15V791**
Wet Cut															
1	115/230VAC	86 to 260	7"	10 13/64"	7 in	45° to 90°	93 in	¾"	0.032"	48"	31½"	50"	JET	413451	**42W918**
1½	115/230VAC	82 to 310	9"	8" x 13"	9 in	45°	114 ½ in	1"	0.035"	48.4"	22.4"	62½"	JET Elite	891020	**20UT91**
3	460VAC	85 to 330	13"	12" x 17¾"	13 in	60°	162 in	1"	0.035"	70"	70"	90"	Marvel	S330/3/HV	**53RU30**
3	460VAC	85 to 330	13"	12" x 17¾"	13 in	45° to 60°	162 in	1"	0.035"	70"	70"	90"	Marvel	S330/3	**53RU29**



No. 21UN03



No. 3WRN9


No. 4TK02



No. 36JT36

Vertical Band Saws

WOOD-CUTTING

Dayton—Saws include cast-iron table, adjustable blade guides, and an adjustable fence.

JET®—14" bandsaws have cast-iron frames. No. 42W931 features 6"D resaw capacity. No. 42W932 features 12" resaw capacity and poly-V belt drive.

Powermatic®—Quick tension lever allows blade changes. Features an extra large table.

WOOD- AND METAL-CUTTING

Dayton—Rack-and-pinion blade guide adjustment. Include built-in chip chute, rip fence, miter gauge, and blade cleaning brush.

JET®—Designed with a cast-iron frame, solid 1-pc. steel base, and exclusive gear box design that cuts a wide variety of materials including nonferrous metal and plastic.

VERTICAL CONTOUR SAW

Heavy-gauge steel blade provides a rigid foundation to help reduce vibration during cutting, while the manual blade tension device helps assure proper tension with just about any blade width. 2 balanced cast-iron blade wheels are preloaded with ball bearing hubs to assure long life even when running at high speed. Upper guide arm is adjustable for varying material sizes. Saw is constructed of cast iron to reduce vibration while cutting and has one slot to the right of the blade to accommodate accessories.

METAL-CUTTING

Dayton®—Feature upper blade guide rack-and-pinion adjustment. Include rip fence, chip blower, speed reducer, safety Off button, upper and lower carbide blade guides, cast-iron pulleys, and built-in chip chute. No. 4TK02 has an LED readout and blade welder.

Marvel—These saws are designed with front-mounted speed control, variable feed pressure, T-slotted work table, blade break/stall detection, quick-action vise with jaws that shift right and left, and adjustable automatic stops. Cast-iron wheels are 19" dia.

HP	Voltage	Speeds (FPM)	Cutting Capacity Round	Cutting Capacity Square	Miter Capacity	Max. Blade Length	Max. Blade Width	Blade Thickness	Table Dimensions	Overall Height	Brand	Mfr. Model	Item No.
Wood Cutting													
0.75 hp	120/240V AC	2000 to 3000	10"	10 in	45°	111 in	¾ in	0.032 in	15 in x 15 in	69 in	Dayton	—	**21UN02**
1.5 hp	120/240V AC	2000 and 3000	12"	11 in	45°	133 in	1 in	0.035 in	18 in x 19 in	75 in	Dayton	—	**21UN03**
1 hp	115/230V AC	3000	13½"	—	45°	93.5 in	¾ in	0.025	15 in x 15 in	68 in	JET	708115K	**42W931**
1.25 hp	115/230V AC	1500 to 3000	13½"	—	45°	105 in	¾ in	0.025	15 in x 15 in	77 in	JET	710116K	**42W932**
1.75 hp	115/230V AC	3000	13½"	13 in	45°	124.5 in	⅛ in	0.035 in	21½ in x 16 in	74 ½ in	JET	714600	**36VE22**
1.5 hp	115/230V AC	3000	13½"	13.5 in	45°	93.5 in	¾ in	0.016 in	15 in x 15 in	68 in	Powermatic	1791216K	**36VE06**
Wood and Metal Cutting													
0.75 hp	120V AC	80 to 3000	7"	7 in	45°	89.75 in	½ in	0.025 in	15 in x 15 in	65 in	Dayton	—	**49G987**
1 hp	120/240V AC	45 to 3000	10"	10 in	45°	114 in	¾ in	0.035 in	15 in x 15 in	71 in	Dayton	—	**49G988**
1.5 hp	120/240V AC	45 to 3000	12"	10 in	45°	137 in	1 in	0.035 in	19 in x 19 in	76 in	Dayton	—	**49G989**
1 hp	115/230V AC	39 to 3300	6"	6 in	45°	93.5 in	¾ in	0.025 in	14 in x 14 in	73 ½ in	JET	414500	**3WRN9**
1 hp	230/460V AC	39 to 3300	13½"	—	45°	93.5 in	¾ in	0.025	14 in x 14 in	73 ½ in	JET	414504C	**42W927**
Vertical Contour Band Saw for Metal Cutting													
3 hp	230V AC	50 to 415	12"	12 in	45°	158.75 in	1 in	0.035 in	23½ in x 27½ in	90 in	Marvel	S-20V	**419J44**
Metal Cutting													
1.5 hp	115/230V AC	75 to 385	10"	10 in	—	120.75 in	⅝ in	0.035 in	23⅝ in x 21⅝ in	70 in	Dayton	48WE33	**48WE33**
1.5 hp	115/230V AC	82 to 385	10¾"	10.75 in	90°	141 in	⅝ in	0.035 in	21½ in x 23½ in	75 in	Dayton	—	**4TK02**
3 hp	230V AC	100 to 2500	14"	13.5 in	0°	179 in	¾ in	0.035 in	22½ in x 24½ in	77 in	Dayton	467K84	**467K84**
3 hp	230V AC	100 to 2500	12"	12 in	0°	155 in	¾ in	0.032 in	21⅝ in x 23⅝ in	77 in	Dayton	467K82	**467K82**
5 hp	230V AC	50 to 450	18"	18 in	45° Left and Right	174 in	1 in	0.035 in	33 in x 58 in	89 in	Marvel	8 MARK II	**36JT36**
5 hp	230V AC	50 to 450	18"	18 in	60° Left and Right	184 in	1 ¼ in	0.042 in	33 in x 58 in	89 in	Marvel	8-MARK III-REG	**36JT38**
5 hp	460V AC	50 to 450	18"	18 in	60°	184 in	1 ¼ in	0.042 in	33 in x 58 in	89 in	Marvel	8-MARK III PWR TILT	**53RU23**
Accessory													
Band Saw Guard, 14 in x 16 in											Htc	A100-16	**29EJ47**



Starrett®

Carbon Steel Food Service Band Saw Blades

Band Knife—Manufactured from high carbon steel, heat treated, and suitable for cutting fresh and boneless meat, fish, bacon, cold cuts, and vegetables. Features double-bevel edges.

Meat Cutter—State-of-the art tooth geometry handles fresh, frozen, boneless, and bone-in applications. Polished high carbon blades are laser etched for easy identification and provide fast, smooth, and clean cuts for fish and poultry.

L	W	Thickness	Teeth per Inch	Mfr. Model	Item No.
Band Knife, Scallop Teeth					
10 ft. 6"	⅝"	0.022"	7	93590-126W	**45KY77**
12 ft. 10"	⅝"	0.022"	7	93590-154W	**45KZ02**
Meat Cutter, Hook Teeth					
8 ft. 2"	⅝"	0.022"	4	94317-098W	**45KY52**
8 ft. 2"	⅝"	0.025"	4	94326-098W	**45KY55**
9 ft. 4"	⅝"	0.022"	4	94317-112W	**45KY59**
10 ft. 4"	⅝"	0.022"	3	94316-124W	**45KY70**
10 ft. 4"	⅝"	0.025"	3	94325-124W	**45KY73**
10 ft. 4"	⅝"	0.025"	4	94326-124W	**45KY74**
10 ft. 6"	⅝"	0.025"	3	94325-126W	**45KY78**
10 ft. 6"	⅝"	0.025"	4	94326-126W	**45KY79**
10 ft. 8"	⅝"	0.025"	3	94325-128W	**45KY85**
11 ft. 3"	⅝"	0.022"	4	94317-135W	**45KY90**
11 ft. 10"	⅝"	0.022"	3	94316-142W	**45KY94**
11 ft. 10"	⅝"	0.022"	4	94317-142W	**45KY95**
11 ft. 10"	⅝"	0.025"	4	94326-142W	**45KY98**
11 ft. 1⅓"	¾"	0.022"	3	94370-133-1/3W	**52HX73**
12 ft. 10"	⅝"	0.025"	3	94325-154W	**45KZ03**
12 ft. 10"	⅝"	0.025"	4	94326-154W	**45KZ04**



LENOX®

Sawing Fluids

Provide excellent cooling and lubrication when machining a wide variety of metals. Do not contain chlorine, sulphur, silicone, or carcinogens.

Description	1 GAL. Item No.	5 GAL. Item No.	55 GAL. Item No.
Semi-Synthetic Fluid	**5EGC7**	**5EGC8**	**5EGC9**
Synthetic Fluid	**5EGD0**	**5EGD1**	**5EGD2**
Synthetic Oil for Spray Application, Blue, For Nonferrous Metals	**5EGD3**	**5EGD4**	—
Synthetic Oil for Spray Application, Green, General Purpose	**5EGD5**	**5EGD6**	—



No. 4TJ96



No. 2CDN9



"V" Roller Head No. 6Z765



Horizontal Roller Head No. 6A819

Dayton®

Roller Head Stands

Chrome-plated steel rollers with double-sealed ball bearings. Mounting holes in base. Horizontal and "V" heads are interchangeable on common base.

"V" Roller Head—Used to support bar stock, pipe, tube, conduit, or other round material. Two 2" x 5" rollers accommodate material from 1" to 18" in diameter.

Horizontal Roller Head—Used to support bar stock, sheet metal, beams, or other flat material. Single 2" x 14" roller protrudes above the head casting, allowing use with material wider than the roller.

Description	Load Capacity	Height Range	W	Item No.
"V" Roller Head With Stand	2000 lb.	23" to 38"	14"	**6Z765**
Horizontal Roller Head With Stand	2000 lb.	23¼" to 37"	16¼"	**6A819**

Dayton® MORSE® THE M.K. MORSE COMPANY SUPPLIER DIVERSITY®

Blade Welders and Tension Gauge

Blade Welders—Weld carbon and bimetal blades. Include self-contained grinder.

Blade Tension Gauge—Quickly measures blade tension while the blade is on the machine.

kVA Rating	W (in.)	Thickness (in.)	Amps AC	Voltage	Brand	Item No.
Blade Welders						
1.2	⅛ to ½	0.020 to 0.035	8	120VAC	Dayton	**4TJ96**
4.2	½ to ¾	0.020 to 0.035	20	240VAC	Dayton	**6A489**
Blade Tension Gauge						
Calibrated to measure in.-lb. and kg/cm²					Morse	**2CDN9**

Scan. Order. Done.
Details on page A1.



Diemaster 2®



Classic®

LENOX

Band Saw Blades — General Purpose

- M-42 bimetal
- Long life

Note: Blades 15 ft. and above can be found on Grainger.com®.

Diemaster 2®
- Ideal for contour cutting
- Cut faster than carbon steel

Classic®/Classic Pro®
- Durable tooth design
- Saw mild/alloy steels and aluminum

L	W	Thickness	▶CHOOSE: Teeth per Inch	▶CHOOSE: Tooth Type	Item No.
Diemaster 2® Blades					
4 ft. 4¼"	½"	0.025"	18	Regular	**5XGF8**
5 ft. 4"	½"	0.025"	10/14	Variable	**5XGF9**
5 ft. 4¼"	½"	0.025"	10/14	Variable	**5XGG0**
5 ft. 4½"	½"	0.025"	6/10, 8/12, 10/14, 14/18, 14, 18	Variable, Regular	**G3883**
7 ft. 5"	½"	0.025"	10/14	Variable	**5XGG7**
7 ft. 9"	½"	0.025"	6/10, 8/12, 10/14, 14/18	Variable	**G3884**
7 ft. 9"	⅜"	0.025"	10/14	Variable	**5XGG8**
7 ft. 9"	⅜"	0.025"	14/18	Variable	**5XGG9**
7 ft. 9½"	½"	0.025"	6/10, 10/14, 14/18, 14	Variable, Regular	**G3885**
7 ft. 9½"	⅜"	0.035"	4	Hook	**5XGH4**
7 ft. 10"	½"	0.025"	14	Regular	**5XGH9**
7 ft. 10½"	½"	0.025"	10/14	Variable	**5XGJ0**
9 ft. 1"	½"	0.025"	8/12	Variable	**5XGJ1**
9 ft. 10"	¼"	0.025"	10/14	Variable	**5XGJ2**
9 ft. 10"	⅜"	0.025"	10/14	Variable	**5XGJ3**
10 ft.	½"	0.025"	8/12, 10/14, 14/18	Variable	**G3878**
10 ft. 5"	½"	0.025"	10/14	Variable	**5XGJ7**
10 ft. 6"	½"	0.025"	10/14	Variable	**5XGJ8**
10 ft. 10"	½"	0.025"	10/14	Variable	**5XGJ9**
11 ft. 4"	½"	0.025"	10/14	Variable	**5XGK0**
11 ft. 6"	⅜"	0.025"	14/18	Variable	**5XGK1**
12 ft.	½"	0.025"	10/14	Variable	**5XGK2**
12 ft. 5"	½"	0.025"	10/14	Variable	**5XGK3**
12 ft. 6"	½"	0.025"	6/10, 8/12, 10/14, 14/18	Variable	**G3880**
12 ft. 6"	¼"	0.025"	10/14	Variable	**5XGK4**
12 ft. 6"	⅜"	0.025"	10/14	Variable	**5XGK5**
12 ft. 6"	½"	0.035"	10	Regular	**5XGK8**
12 ft. 8"	½"	0.025"	14/18	Variable	**5XGL1**
12 ft. 10"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G3879**
12 ft. 10"	½"	0.025"	6	Hook	**5XGL2**
12 ft. 10"	½"	0.035"	6	Hook	**5XGL6**
13 ft. 3"	½"	0.025"	10/14	Variable	**5XGL7**
14 ft. 6"	½"	0.025"	8/12, 10/14, 10	Variable, Regular	**G3881**
14 ft. 7"	½"	0.025"	8/12, 10/14	Variable	**G3882**
14 ft. 9"	½"	0.025"	8/12	Variable	**5XGN3**
Classic® Blades					
7 ft. 9"	¾"	0.035"	6/10, ⅝, 4/6, 8/12, 10/14, 6/8, 14	Variable, Wavy	**G3877**
8 ft. 10"	1"	0.035"	6/10	Variable	**5XGZ7**
9 ft. 6"	¾"	0.035"	10/14	Variable	**5XGP2**
10 ft.	¾"	0.035"	6/10, ⅝, 8/12, 10/14	Variable	**G3866**
10 ft.	1"	0.035"	6/10, ⅝, 8/12, 10/14	Variable	**G3865**
10 ft. 10½"	1"	0.035"	6/10, ⅝, 8/12, 10/14	Variable	**G3864**
11 ft.	1"	0.035"	6/10, ⅝, 4/6, 8/12, 10/14	Variable	**G3869**
11 ft. 3"	1"	0.035"	6/10	Variable	**5XGR8**
11 ft. 3"	1"	0.035"	⅝	Variable	**5XGZ2**
11 ft. 6"	¾"	0.035"	6/10, ⅝, 8/12, 10/14	Variable	**G3868**
11 ft. 6"	1"	0.035"	6/10, ⅝, 4/6, 8/12, 10/14	Variable	**G3867**
12 ft.	1"	0.035"	4/6	Variable	**5XGT8**
12 ft. 6"	1"	0.035"	6/10, ⅝, 4/6	Variable	**G3870**
13 ft. 3"	1"	0.035"	6/10, ⅝, 4/6	Variable	**G3871**
14 ft. 3"	1"	0.035"	4/6	Variable	**5XGZ9**
14 ft. 6"	1"	0.035"	⅝, 4/6, 8/12, 10/14, 6/8	Variable	**G3874**
14 ft. 6"	¾"	0.035"	10/14	Variable	**5XGY4**
14 ft. 10"	1"	0.035"	4/6	Variable	**5XGV9**
Classic Pro® Blades					
10 ft.	1"	0.035"	⅝	Variable	**21Y518**
11 ft.	1"	0.035"	⅝	Variable	**21Y523**
11 ft. 6"	1"	0.035"	4/6	Variable	**G9261**
11 ft. 6"	1¼"	0.042"	⅔, ¾	Variable	**G9262**
12 ft.	1"	0.035"	⅝	Variable	**21Y524**
12 ft. 6"	1"	0.035"	⅝, 4/6	Variable	**G9263**
12 ft. 10"	1"	0.035"	¾	Variable	**21Y506**
13 ft. 3"	1"	0.035"	⅝	Variable	**21Y517**
13 ft. 6"	1"	0.035"	⅝, 4/6	Variable	**G9264**
13 ft. 6"	1¼"	0.042"	⅔	Variable	**G9265**
14 ft. 6"	1¼"	0.042"	⅝, ⅔, 4/6	Variable	**G9267**
14 ft. 6"	1"	0.035"	¾	Variable	**21Y516**
14 ft. 10"	1"	0.035"	4/6	Variable	**21Y519**



QXP™



Tri-Master®

LENOX

Band Saw Blades — Production

Note: Blades 15 ft. and above can be found on Grainger.com®.

QXP™
- M-42 bimetal
- Extreme positive rake tooth form for production cutting of solid metal materials
- Optimized for sawing mild/alloy steels, tool steels, and stainless steels

RX+®
- M-42 bimetal
- Patented reinforced tooth design resists tooth strippage
- For sawing structural steel and tubing

Tri-Master®
- Carbide-tipped
- Triple-chip tooth design
- Ideal for sawing nonferrous metal, abrasive materials, and wood

L	W	Thickness	▶CHOOSE: Teeth per Inch	Tooth Type	Item No.
QXP™ Blades					
10 ft.	1"	0.035"	⅝	Variable	**G3865**
10 ft. 10½"	1"	0.035"	⅝	Variable	**5WDG6**
10 ft. 10½"	1"	0.035"	4/6	Variable	**G3864**
11 ft.	1"	0.035"	⅝	Variable	**5WDG7**
11 ft. 3"	1"	0.035"	4/6	Variable	**5WDG8**
11 ft. 6"	1"	0.035"	⅝, 4/6, ¾	Variable	**G3886**
11 ft. 6"	1¼"	0.042"	4/6, ¾	Variable	**G3887**
12 ft.	1"	0.035"	⅝, 4/6	Variable	**G3890**
12 ft.	1¼"	0.042"	⅔, 4/6, ¾	Variable	**G3891**
12 ft. 6"	1¼"	0.042"	4/6, ¾	Variable	**G3889**
12 ft. 10"	1"	0.035"	⅔, 4/6, ¾	Variable	**G3888**
13 ft. 3"	1"	0.035"	4/6	Variable	**5WDJ4**
13 ft. 6"	1"	0.035"	⅝, 4/6, ¾	Variable	**G3892**
13 ft. 6"	1¼"	0.042"	⅝, ⅔, 4/6, ¾	Variable	**G3893**
14 ft. 6"	1"	0.035"	⅝, 4/6, ¾	Variable	**G3894**
14 ft. 6"	1¼"	0.042"	⅝, ⅔, 4/6	Variable	**G3895**
RX+® Blades					
7 ft. 9"	¾"	0.035"	⅝	Variable	**5XHC9**
10 ft.	1"	0.035"	⅝	Variable	**5XHD0**
10 ft. 10½"	1"	0.035"	⅝	Variable	**5XHD1**
11 ft.	1"	0.035"	⅝, 4/6	Variable	**G3901**
11 ft. 6"	¾"	0.035"	⅝	Variable	**5XHD4**
11 ft. 6"	1"	0.035"	⅝, 4/6	Variable	**G3900**
11 ft. 6"	1¼"	0.042"	⅜	Variable	**5XHD7**
12 ft.	1"	0.035"	⅝, 4/6	Variable	**G3902**
12 ft. 6"	1"	0.035"	⅝	Variable	**5XHE0**
12 ft. 10"	1"	0.035"	4/6	Variable	**5XHE1**
13 ft. 3"	1"	0.035"	⅝, 4/6	Variable	**G3903**
13 ft. 6"	1"	0.035"	⅝, 4/6, ¾	Variable	**G3904**
13 ft. 6"	1¼"	0.042"	⅝, 4/6, ¾	Variable	**G3905**
14 ft. 3"	1¼"	0.042"	4/6	Variable	**5WDC1**
14 ft. 6"	1"	0.035"	⅝, 4/6, ¾	Variable	**G3906**
14 ft. 6"	1¼"	0.042"	⅝, 4/6, ¾	Variable	**G3907**
14 ft. 10"	1"	0.035"	4/6	Variable	**5WDC8**
14 ft. 11"	1¼"	0.042"	4/6	Variable	**5WDC9**
Tri-Master® Blades					
11 ft. 6"	1¼"	0.042"	¾	Variable	**5WDT2**
11 ft. 6"	1¼"	0.042"	3	Regular	**5WDT1**
12 ft. 6"	½"	0.025"	3	Regular	**5WDT3**
12 ft. 6"	1"	0.035"	3	Regular	**5WDT4**
13 ft. 6"	1"	0.035"	⅔	Variable	**5WDT5**
13 ft. 6"	1"	0.035"	¾	Variable	**5WDT7**
13 ft. 6"	1¼"	0.042"	¾	Variable	**5WDT8**
13 ft. 6"	1"	0.035"	3	Regular	**5WDT6**
14 ft.	1"	0.035"	⅔	Variable	**5WDT9**
14 ft. 2"	1"	0.035"	⅔	Variable	**5WDU0**
14 ft. 6"	1"	0.035"	⅔	Variable	**5WDU2**
14 ft. 6"	1"	0.035"	¾	Variable	**5WDU3**
14 ft. 6"	½"	0.025"	3	Regular	**5WDU1**
14 ft. 6"	1¼"	0.042"	3	Regular	**5WDU4**



Intenss™ PRO-DIE

Starrett®

Bi-Metal Band Saw Blades

- Raker tooth
- M-42 cobalt
- Fatigue-resistant alloy backing strip

Note: Blades 15 ft. and above can be found on Grainger.com®.

Intenss™ PRO—Intensive blade for steels up to HRc 45, tool and stainless steels, and nickel-based and nonferrous alloys.

Intenss™ PRO-DIE—General purpose blade for contouring. Ideal for tool, die and mold steels, stainless and nickel-based and nonferrous alloys.

L	W	Thickness	Teeth per Inch	Item No.
Intenss PRO				
7 ft. 9"	¾"	0.035"	4/6	**54GM12**
	¾"	0.035"	5/8	**54GM22**
	¾"	0.035"	6/10	**54GL34**
8 ft. 1½"	1"	0.035"	6/10	**54GL60**
8 ft. 11"	¾"	0.035"	6/10	**54GL40**
9 ft.	¾"	0.035"	6/10	**54GL41**
9 ft. 6"	¾"	0.035"	4/6	**54GM14**
	¾"	0.035"	6/10	**54GL43**
9 ft. 11"	1"	0.035"	6/10	**54GL66**
9 ft. 11½"	1"	0.035"	6/10	**54GL67**
10 ft.	¾"	0.035"	3/4	**54GL26**
	¾"	0.035"	4/6	**54GM15**
	¾"	0.035"	5/8	**54GM24**
	¾"	0.035"	6/10	**54GL47**
	1"	0.035"	6/10	**54GL68**
10 ft. 5"	¾"	0.035"	6/10	**54GL48**
10 ft. 9"	1"	0.035"	6/10	**54GL73**
10 ft. 10"	1"	0.035"	6/10	**54GL74**
10 ft. 10½"	¾"	0.035"	6/10	**54GL50**
	1"	0.035"	4/6	**54GM56**
	1"	0.035"	6/10	**54GL75**
11 ft.	1"	0.035"	6/10	**54GL77**
11 ft. 3"	1"	0.035"	6/10	**54GL78**
11 ft. 5"	¾"	0.035"	6/10	**54GL52**
	1"	0.035"	6/10	**54GL80**
11 ft. 6"	¾"	0.035"	6/10	**54GL53**
	1"	0.035"	3/4	**54GM37**
	1"	0.035"	6/10	**54GL81**
12 ft.	1"	0.035"	3/4	**54GM40**
	1"	0.035"	6/10	**54GL83**
12 ft. 6"	¾"	0.035"	6/10	**54GL54**
	1"	0.035"	6/10	**54GL85**
12 ft. 10"	¾"	0.035"	4/6	**54GM19**
	1"	0.035"	6/10	**54GL87**
13 ft. 2"	1"	0.035"	6/10	**54GL88**
13 ft. 3"	1"	0.035"	6/10	**54GL89**
13 ft. 6"	1"	0.035"	2/3	**54GM32**
	1"	0.035"	3/4	**54GM45**
	1"	0.035"	6/10	**54GL91**
	1¼"	0.042"	6/10	**54GM05**
13 ft. 11"	1"	0.035"	6/10	**54GL94**
14 ft. 6"	¾"	0.035"	3/4	**54GL27**
	¾"	0.035"	6/10	**54GL55**
	1"	0.035"	6/10	**54GL96**
14 ft. 8"	¾"	0.035"	6/10	**54GL56**
14 ft. 10"	¾"	0.035"	3/4	**54GL28**
	1"	0.035"	3/4	**54GM47**

CONTINUED

CONTINUED

Bi-Metal Band Saw Blades

Starrett®

L	W	Thickness	Teeth per Inch	Item No.
Intenss PRO-DIE				
2 ft. 08⅛"	½"	0.020"	14/18	**54GL06**
3 ft. 9"	½"	0.025"	10/14	**54GH63**
4 ft. 1⅛"	½"	0.025"	14/18	**54GK84**
4 ft. 4½"	½"	0.025"	10/14	**54GH64**
4 ft. 11½"	¼"	0.025"	10/14	**54GF95**
	⅜"	0.025"	10/14	**54GG42**
5 ft. 2"	¼"	0.025"	10/14	**54GF96**
	⅜"	0.025"	10/14	**54GG44**
5 ft. 4"	½"	0.025"	10/14	**54GH70**
5 ft. 4½"	½"	0.025"	6/10	**54GG25**
	½"	0.025"	8/12	**54GG96**
	½"	0.025"	10/14	**54GH71**
	½"	0.025"	14	**54GL13**
	½"	0.025"	14/18	**54GK86**
	½"	0.035"	10/14	**54GH22**
	½"	0.035"	14	**54GH42**
5 ft. 5"	½"	0.025"	10/14	**54GH72**
5 ft. 8"	½"	0.025"	10/14	**54GH77**
	½"	0.025"	14	**54GL14**
5 ft. 8½"	½"	0.025"	10/14	**54GH78**
5 ft. 10½"	⅜"	0.025"	10/14	**54GG47**
	½"	0.025"	10/14	**54GH80**
6 ft. 8"	¼"	0.025"	10/14	**54GF98**
	½"	0.025"	10/14	**54GH83**
7 ft. 5"	½"	0.025"	10/14	**54GH86**
	½"	0.035"	10/14	**54GH23**
7 ft. 6"	½"	0.025"	10/14	**54GH88**
7 ft. 8"	½"	0.020"	14/18	**54GL10**

L	W	Thickness	Teeth per Inch	Item No.
7 ft. 8½"	⅜"	0.025"	10/14	**54GG50**
	½"	0.025"	10/14	**54GH91**
	½"	0.025"	14/18	**54GK88**
7 ft. 9"	¼"	0.025"	10/14	**54GG02**
	⅜"	0.025"	10/14	**54GG51**
	⅜"	0.025"	14/18	**54GG65**
	½"	0.025"	6/10	**54GG26**
	½"	0.025"	8/12	**54GG98**
	½"	0.025"	10/14	**54GH92**
	½"	0.025"	14	**54GL16**
	½"	0.025"	14/18	**54GK89**
	½"	0.035"	10/14	**54GH24**
7 ft. 9½"	¼"	0.025"	10/14	**54GG03**
	⅜"	0.025"	10/14	**54GG52**
	½"	0.020"	14/18	**54GL11**
	½"	0.025"	4	**54GG72**
	½"	0.025"	8/12	**54GG99**
	½"	0.025"	10/14	**54GH93**
	½"	0.025"	14	**54GL17**
	½"	0.025"	14/18	**54GK90**
	½"	0.035"	6	**54GG84**
	½"	0.035"	14	**54GH46**
7 ft. 11"	½"	0.025"	10/14	**54GH95**
8 ft.	½"	0.025"	10/14	**54GH97**
8 ft. 4"	½"	0.025"	10/14	**54GJ01**
8 ft. 9"	¼"	0.025"	10/14	**54GG06**
	½"	0.025"	10/14	**54GJ03**

L	W	Thickness	Teeth per Inch	Item No.
9 ft.	½"	0.025"	10/14	**54GJ05**
	½"	0.035"	10/14	**54GH27**
	½"	0.035"	14	**54GH49**
9 ft. 2"	½"	0.025"	10/14	**54GJ07**
9 ft. 3"	½"	0.025"	10/14	**54GJ08**
9 ft. 4"	½"	0.025"	10/14	**54GJ09**
9 ft. 5"	½"	0.025"	10/14	**54GJ10**
9 ft. 6"	¼"	0.025"	10/14	**54GG07**
	½"	0.025"	6/10	**54GG27**
	½"	0.025"	10/14	**54GJ11**
	½"	0.025"	14	**54GL20**
	½"	0.025"	14/18	**54GK93**
9 ft. 10"	½"	0.025"	10/14	**54GK28**
10 ft.	¼"	0.025"	10/14	**54GG09**
	⅜"	0.025"	10/14	**54GG55**
	½"	0.025"	6/10	**54GG28**
	½"	0.025"	8/12	**54GH09**
	½"	0.025"	10/14	**54GK31**
	½"	0.025"	14	**54GL21**
	½"	0.025"	14/18	**54GK94**
	½"	0.035"	10/14	**54GH29**
10 ft. 2"	½"	0.025"	10/14	**54GK33**
10 ft. 6"	½"	0.035"	10/14	**54GH31**
10 ft. 10"	½"	0.025"	10/14	**54GK39**
	½"	0.025"	14	**54GL22**
11 ft.	½"	0.025"	10/14	**54GK42**
11 ft. 5"	½"	0.035"	6/10	**54GG89**
11 ft. 6"	½"	0.035"	10/14	**54GH33**

L	W	Thickness	Teeth per Inch	Item No.
11 ft. 7"	½"	0.035"	10/14	**54GH34**
11 ft. 8"	½"	0.025"	10/14	**54GK48**
11 ft. 9"	½"	0.025"	10/14	**54GK50**
12 ft.	½"	0.025"	6/10	**54GG31**
	½"	0.025"	10/14	**54GK53**
	¼"	0.025"	10/14	**54GG13**
	⅜"	0.025"	10/14	**54GG60**
12 ft. 6"	½"	0.025"	4	**54GG74**
	½"	0.025"	6	**54GG81**
	½"	0.025"	6/10	**54GG32**
	½"	0.025"	8/12	**54GH13**
	½"	0.025"	10/14	**54GK57**
	½"	0.025"	14	**54GL24**
	½"	0.035"	10/14	**54GH35**
	½"	0.035"	14	**54GH57**
12 ft. 9"	½"	0.025"	10/14	**54GK61**
12 ft. 10"	½"	0.025"	4	**54GG75**
	½"	0.025"	6/10	**54GG33**
	½"	0.025"	10/14	**54GK62**
	½"	0.035"	4	**54GG76**
	½"	0.035"	6	**54GG86**
	½"	0.035"	8/12	**54GH20**
	½"	0.035"	10/14	**54GH36**
	½"	0.035"	14	**54GH58**
13 ft. 6"	½"	0.025"	10/14	**54GK70**
14 ft. 6"	½"	0.035"	4	**54GG77**
	½"	0.035"	8/12	**54GH21**
14 ft. 7"	½"	0.025"	10/14	**54GK74**

Carbon Band Saw Blades

MORSE THE M.K. MORSE COMPANY — SUPPLIER DIVERSITY

Use on carbon steels, composition board, cork, graphite, low-alloy steels, nonferrous, brass, bronze, aluminum, plastic, and wood.

Note: Blades 15 ft. and above can be found on Grainger.com®.

Flex-Back—High-carbon steel with individually hardened tooth tips for speeds up to 15,000 SFM.

Hard-Back—Stiffer for straighter cuts and heavier feed pressure.



No. 4YB36



No. G2063

L	W	Thickness	▶CHOOSE: Teeth per Inch	▶CHOOSE: Tooth Type	FLEX BACK Item No.	HARD BACK Item No.
Coil Lengths						
100 ft.	¼"	0.025"	14	Raker	**6YFV7**	**4WE44**
100 ft.	⅜"	0.025"	14	Raker	**6YFV8**	**4WE45**
100 ft.	½"	0.025"	6, 10, 14, 18	Raker, Wavy	**G1986**	**G2037**
100 ft.	¾"	0.025"	14	Raker	**6YFV9**	**4WE47**
Welded-to-Length						
4 ft. 8⅛"	⅛"	0.018"	14	Raker	**4YB36**	—
4 ft. 8⅛"	¼"	0.014"	6, 14, 18	Skip, Raker	**G1987**	—
4 ft. 8⅛"	⅜"	0.014"	6	Skip	**4WA41**	—
4 ft. 11½"	⅛"	0.018"	14	Regular	**6RA82**	—
4 ft. 11½"	¼"	0.014"	6	Skip	**6RA83**	—
4 ft. 11½"	⅜"	0.014"	6	Skip	**6RA84**	—
5 ft.	½"	0.025"	14	Raker	**4YB39**	**4YB23**
5 ft. 2"	¼"	0.014"	6, 14	Raker	**G1988**	—
5 ft. 2"	⅜"	0.014"	6	Regular	**2NNJ7**	—
5 ft. 4"	½"	0.025"	14	Raker	**6YFW0**	**4YB24**
5 ft. 4½"	⅜"	0.025"	18	Raker	—	**6YFW1**
5 ft. 4½"	½"	0.025"	4, 6, 10, 14, 18, 24	Skip, Hook, Raker, Wavy	**G1989**	—
5 ft. 4½"	½"	0.025"	6, 10, 14, 18, 24	Raker, Wavy	—	**G2038**
5 ft. 5"	½"	0.025"	14	Raker	**6YFW3**	**4YB25**
5 ft. 8"	½"	0.025"	8, 10, 14, 18	Raker	**G1990**	**G2039**
6 ft. 1"	½"	0.025"	14, 18	Raker, Wavy	**G1991**	**G2040**
6 ft. 8"	3⁄16"	0.025"	10	Raker	**4VY58**	—
6 ft. 8"	¼"	0.025"	4, 6, 10, 14	Skip, Hook, Raker	**G1992**	—
6 ft. 8"	¼"	0.025"	6, 10, 14	Hook, Raker	—	**G2041**
6 ft. 8"	⅜"	0.025"	4	Skip	**4VY52**	—
6 ft. 8"	½"	0.025"	4, 6, 10, 14	Skip, Hook, Raker	**G1993**	—
6 ft. 8"	½"	0.025"	6, 10, 14	Raker	—	**G2042**
6 ft. 9"	½"	0.025"	14, 18	Raker, Wavy	**G1994**	**G2043**
6 ft. 10"	¼"	0.025"	4, 8, 10	Skip, Raker	**G1995**	—
6 ft. 10"	¼"	0.025"	10	Raker	—	**6YFX5**
6 ft. 10"	½"	0.025"	4	Skip	**4VY45**	**6YFX6**
7 ft. 5"	½"	0.025"	10, 14, 18, 24	Raker, Wavy	**G1996**	**G2044**
7 ft. 5½"	½"	0.025"	6, 14	Raker	**G1997**	—
7 ft. 6"	¼"	0.025"	14	Raker	—	**6YFY1**
7 ft. 6"	½"	0.025"	14	Raker	**4YB44**	—
7 ft. 8½"	¼"	0.025"	4, 10, 14	Skip, Raker	**G1998**	**G2045**
7 ft. 8½"	½"	0.025"	4, 6, 10, 14, 18	Hook, Raker	**G1999**	—
7 ft. 8½"	½"	0.025"	6, 10, 14, 18	Raker	—	**G2046**
7 ft. 9"	¼"	0.025"	4, 6, 10, 14	Skip, Hook, Raker	**G2000**	**G2047**
7 ft. 9"	⅜"	0.025"	6, 10, 14	Hook, Raker	**G2001**	**G2048**
7 ft. 9"	½"	0.025"	4, 6, 8, 10, 14, 18	Skip, Raker, Wavy	**G2002**	**G2049**
7 ft. 9"	¾"	0.032"	6, 8, 10, 14, 18	Raker	**G2004**	—
7 ft. 9"	¾"	0.032"	6, 8, 10, 14, 18	Raker, Wavy	—	**G2051**
7 ft. 9½"	⅛"	0.025"	14	Raker	**4YB53**	—
7 ft. 9½"	3⁄16"	0.025"	4, 10, 14	Skip, Raker	**G2005**	—
7 ft. 9½"	3⁄16"	0.025"	4	Skip	—	**6YFZ9**
7 ft. 9½"	¼"	0.025"	4, 6, 10, 14, 18	Hook, Skip, Raker	**G2006**	**G2052**
7 ft. 9½"	⅜"	0.025"	4, 6, 8, 10, 14	Hook, Skip, Raker	**G2007**	**G2053**
7 ft. 9½"	½"	0.025"	4, 6, 10, 14, 18	Hook, Skip, Raker, Wavy	**G2008**	**G2054**
7 ft. 9½"	¾"	0.032"	4	Hook, Skip	**G2009**	—
7 ft. 10"	½"	0.025"	14	Raker	**6YGC3**	**4WU22**
8 ft.	½"	0.025"	14	Raker	**6YGC4**	**4WU50**
8 ft. 5"	¾"	0.032"	10, 14	Raker	**G2010**	—
8 ft. 5"	¾"	0.032"	10	Raker	—	**4WU55**
8 ft. 5"	¾"	0.032"	14	Raker	—	**4WU56**
8 ft. 9"	3⁄16"	0.025"	4, 10	Skip, Raker	**G2011**	—

L	W	Thickness	▶CHOOSE: Teeth per Inch	▶CHOOSE: Tooth Type	FLEX BACK Item No.	HARD BACK Item No.
8 ft. 9"	¼"	0.025"	4, 6, 10	Hook, Skip, Raker	**G2012**	—
8 ft. 9"	¼"	0.025"	6, 10	Hook, Raker	—	**G2055**
8 ft. 9"	½"	0.025"	4, 6, 10	Hook, Raker	**G2013**	**G2056**
8 ft. 9"	¾"	0.032"	4	Hook, Skip	**G2014**	—
8 ft. 10½"	¾"	0.032"	14	Raker	**6YGD2**	**G2057**
8 ft. 11"	¾"	0.032"	14	Raker	**6YGD3**	**G2058**
9 ft.	¾"	0.032"	8, 10, 14	Raker	**G2015**	**G2059**
9 ft. 2"	¾"	0.032"	6	Hook	**6YGD7**	—
9 ft. 3"	½"	0.032"	6	Hook	—	**4WU63**
9 ft. 3"	¾"	0.032"	6, 8, 10, 14	Raker	**G2016**	—
9 ft. 3"	¾"	0.032"	8	Raker	—	**4WU64**
9 ft. 3"	¾"	0.032"	14	Raker	—	**4WU65**
9 ft. 5"	1"	0.035"	14	Raker	**6YGD8**	**G2061**
9 ft. 6"	¾"	0.032"	6, 8, 10, 14	Raker	**G2017**	—
9 ft. 6"	¾"	0.032"	14	Raker	—	**4YB34**
9 ft. 7½"	¾"	0.032"	10, 14	Raker	**G2018**	—
9 ft. 7½"	¾"	0.032"	10, 14, 18	Raker, Wavy	—	**G2062**
9 ft. 10"	¼"	0.025"	14	Raker	**6YGD9**	**4YB17**
10 ft.	½"	0.025"	10, 14	Raker	**G2019**	**G2063**
10 ft.	¾"	0.032"	10, 14	Raker	**G2020**	**G2064**
10 ft. 5"	¾"	0.032"	14	Raker	**6YGE4**	**4YB33**
10 ft. 9"	¾"	0.032"	10	Raker	**6YGE5**	**4YB31**
10 ft. 10½"	¾"	0.032"	6, 10, 14	Raker	**G2021**	—
10 ft. 10½"	1"	0.035"	8, 10, 14	Raker	**G2022**	—
10 ft. 10½"	1"	0.035"	10, 14	Raker	—	**G2066**
11 ft.	½"	0.025"	6, 10, 14	Hook, Raker	**G2023**	**G2067**
11 ft.	¾"	0.032"	6, 8, 10, 14	Hook, Raker	**G2024**	—
11 ft.	¾"	0.032"	8, 14	Raker	—	**G2068**
11 ft.	1"	0.035"	10, 14	Raker	**G2025**	**G2069**
11 ft. 1"	½"	0.025"	6	Hook	**6YGF9**	**4WE64**
11 ft. 1"	¾"	0.032"	8, 14	Raker	**G2026**	**G2070**
11 ft. 5"	½"	0.025"	6, 10, 14	Hook, Raker	**G2027**	—
11 ft. 5"	¾"	0.032"	10, 14	Raker	**G2028**	**G2071**
11 ft. 6"	½"	0.025"	8, 10, 14, 18	Raker	—	**G2072**
11 ft. 6"	½"	0.025"	10, 14, 18	Raker	**G2029**	—
11 ft. 6"	¾"	0.032"	8, 10, 14	Raker	**G2030**	—
11 ft. 6"	¾"	0.032"	8, 10, 14, 18	Raker, Wavy	—	**G2073**
11 ft. 6"	1"	0.035"	6, 8, 10, 14	Raker	**G2031**	—
11 ft. 6"	1"	0.035"	6, 10, 14	Raker	—	**G2074**
11 ft. 9"	1"	0.035"	10	Raker	**6RPK0**	—
11 ft. 9"	1"	0.035"	10, 14	Raker	—	**G2075**
12 ft.	½"	0.025"	10	Raker	**6RPK1**	**4YB22**
12 ft.	1"	0.035"	6	Raker	—	**4YB35**
12 ft. 6"	¼"	0.025"	4, 6, 10	Hook, Skip, Raker	**G2032**	**G2076**
12 ft. 6"	⅜"	0.025"	4, 6, 10, 14	Hook, Skip, Raker	**G2033**	**G2077**
12 ft. 6"	½"	0.025"	4, 6, 10, 14, 18	Hook, Skip, Raker, Wavy	**G2034**	**G2078**
12 ft. 11½"	¾"	0.032"	14	Raker	—	**4WE77**
13 ft. ½"	⅜"	0.025"	6	Hook	**6RA85**	—
13 ft. ½"	½"	0.025"	3	Hook	**6RA86**	—
13 ft.	½"	0.025"	10, 14	Raker	**G2035**	**G2079**
13 ft.	½"	0.025"	18	Raker	—	**4WE92**
13 ft. ½"	¾"	0.032"	3	Hook	**6RA87**	—
13 ft. 7"	¾"	0.032"	6, 14	Raker	**G2036**	—
13 ft.	¾"	0.032"	18	Raker	**6RPL7**	—
13 ft. 2"	1"	0.035"	2	Hook	**6RPL8**	**4WE91**
14 ft. 8"	¾"	0.032"	14	Raker	**6RPL9**	**4WE93**



No. 4WA42



No. G2148



No. 493V80



No. H3560

Bi-Metal Band Saw Blades

Note: Blades 15 ft. and above can be found on Grainger.com®.

Matrix II—General purpose blades for cutting materials such as aluminum castings, carbon steel, and structural steels.

M42—Production blades with hardened M42 high speed steel teeth for cutting alloy steels, mold steels, carbon steels, and structural steels.

Challenger—Short production and maintenance blades for cutting low-alloy, stainless, and carbon steel in addition to brass, bronze, and aluminum.

Maverick—All-purpose blades for cutting metals, nickel based alloys, mild steel, stainless steel, alloy and tool steel.

L	W	Thickness	▶CHOOSE: Teeth per Inch	▶CHOOSE: Tooth Type	MATRIX II Item No.	M42 Item No.
Coil Lengths						
100 ft.	⅜"	0.025"	10/14	Variable	**4WA50**	—
100 ft.	½"	0.025"	8/12, 10/14, 18	Variable, Raker	**G2082**	—
100 ft.	½"	0.025"	8/12	Variable	—	**6YPF4**
100 ft.	¾"	0.035"	10/14	Variable	**4WA53**	**6YPF6**
Welded-to-Length						
4 ft. 8⅝"	½"	0.025"	6/10	Variable	**2NNG9**	—
4 ft. 8⅝"	½"	0.025"	8/12	Variable	**2NNG8**	—
4 ft. 8⅝"	½"	0.025"	10/14	Variable	**2NNG7**	—
5 ft.	½"	0.025"	10/14	Variable	**4YB57**	—
5 ft. 4"	½"	0.025"	8/12, 10	Variable, Raker	**G2084**	—
5 ft. 4"	½"	0.025"	8/12	Variable	—	**6VDV5**
5 ft. 4½"	½"	0.020"	10/14	Variable	**4WB83**	—
5 ft. 4½"	½"	0.025"	10/14, 14, 14/18, 18	Variable, Raker	**G2085**	—
5 ft. 4½"	½"	0.035"	10/14	Variable	**4WB86**	**6VDW5**
5 ft. 8"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2086**	—
5 ft. 8"	½"	0.025"	8/12	Variable	—	**6VDV6**
5 ft. 8¼"	½"	0.035"	4, 10/14	Hook, Variable	—	**G2126**
5 ft. 8¼"	½"	0.035"	6/10, 10/14	Variable	**G2087**	—
6 ft. 9"	½"	0.025"	10/14	Variable	**4WB93**	—
6 ft. 10"	¾"	0.035"	4/6, 6/10, 10/14	Variable	**G2088**	**G2127**
7 ft. 5"	½"	0.035"	10/14	Variable	**4WB98**	**6VDW7**
7 ft. 8½"	¼"	0.025"	10/14	Variable	—	**6VDW8**
7 ft. 8½"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2090**	—
7 ft. 8½"	½"	0.025"	8/12	Variable	—	**6VDV7**
7 ft. 8½"	½"	0.035"	10/14	Variable	—	**6VDU2**
7 ft. 9"	½"	0.025"	10/14, 14, 18	Variable, Raker	**G2091**	—
7 ft. 9"	½"	0.035"	10/14	Variable	**4WE10**	—
7 ft. 9"	½"	0.035"	10/14, 14	Variable, Raker	—	**G2128**
7 ft. 9"	¾"	0.035"	6/10, 8/12, 10/14, 14	Variable, Raker	**G2092**	—
7 ft. 9"	¾"	0.035"	6/10, 8/12, 10/14, ⅝	Variable	—	**G2129**
7 ft. 9½"	½"	0.025"	4	Hook	**4YB58**	—
8 ft. ½"	1"	0.035"	6/10, ¾, ⅝	Variable	**G2093**	**G2130**
8 ft. 5"	¾"	0.035"	10/14	Variable	**4WE19**	**6VDX1**
8 ft. 6"	¾"	0.035"	10/14	Variable	—	**6VDX2**
8 ft. 7"	¾"	0.035"	4/6, 6/10, 10/14	Variable	**G2094**	**G2131**
8 ft. 10½"	¾"	0.035"	10/14	Variable	**4WE18**	**6VDX4**
9 ft. 3"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2095**	—
9 ft. 3"	½"	0.025"	8/12	Variable	—	**6VDV8**
9 ft. 3"	½"	0.035"	10/14	Variable	—	**6VDU4**
9 ft. 3"	¾"	0.035"	6/10, 8/12, 10/14	Variable	**G2096**	—
9 ft. 3"	¾"	0.035"	6/10, 8/12	Variable	—	**G2132**
9 ft. 3"	¾"	0.035"	10/14	Variable	—	**6VDX5**
9 ft. 3"	¾"	0.035"	⅝	Variable	—	**4WE30**
9 ft. 5"	1"	0.035"	4/6, 6/10, 8/12, 10/14	Variable	**G2097**	—
9 ft. 5"	1"	0.035"	6/10, 8/12, 10/14	Variable	—	**G2133**
9 ft. 6"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2098**	—
9 ft. 6"	½"	0.025"	8/12	Variable	—	**6VDV9**
9 ft. 6"	½"	0.035"	10/14	Variable	—	**6VDU5**
9 ft. 6"	¾"	0.035"	6/10, 8/12, 10/14	Variable	**G2099**	—
9 ft. 6"	¾"	0.035"	8/12, 10/14	Variable	—	**G2134**
9 ft. 6"	¾"	0.035"	⅝	Variable	—	**G2099**
9 ft. 10⅛"	1"	0.035"	4/6, 10/14, ¾, ⅝	Variable	—	**G2135**
9 ft. 11½"	½"	0.020"	18	Wavy	**4WE38**	—
9 ft. 11½"	¾"	0.035"	8/12	Variable	**4WE39**	—
9 ft. 11½"	1"	0.035"	4/6, 6/10, 8/12, 10/14, ⅝	Variable	**G2100**	**G2136**
10 ft.	½"	0.025"	6/10, 8/12	Variable	**G2101**	—
10 ft.	½"	0.025"	8/12	Variable	—	**6VDW0**
10 ft.	½"	0.035"	10/14	Variable	**4WA42**	**6VDU6**
10 ft.	¾"	0.035"	6/10, 8/12	Variable	**G2102**	—
10 ft.	¾"	0.035"	6/10, 8/12, ⅝	Variable	—	**G2137**
10 ft.	1"	0.035"	8/12, 10/14, ⅝	Variable	**G2103**	**G2138**
10 ft. 1¾"	1"	0.035"	4/6, 6/10, ⅝	Variable	**G2104**	—
10 ft. 1¾"	1"	0.035"	6/10	Variable	—	**6YNZ5**
10 ft. 5"	¾"	0.035"	8/12, 10/14, 14	Variable, Raker	**G2105**	—
10 ft. 5"	¾"	0.035"	8/12, 10/14	Variable	—	**G2139**
10 ft. 9"	¾"	0.035"	4/6, 6/10	Variable	**G2106**	—
10 ft. 9"	¾"	0.035"	6/10	Variable	—	**6VDZ0**
10 ft. 10⅛"	1"	0.035"	8/12	Variable	—	**6YPA6**
10 ft. 10½"	¾"	0.035"	6/10, 8/12, 10, 10/14	Variable, Raker	**G2107**	—
10 ft. 10½"	¾"	0.035"	6/10, 8/12, 10/14	Variable	—	**G2140**
10 ft. 10½"	1"	0.035"	4/6, 6/10, 8, 8/12, 10, 10/14, ⅝	Variable, Raker	**G2108**	—
10 ft. 10½"	1"	0.035"	4/6, 6/10, 8/12, 10/14, ⅝	Variable	—	**G2141**
11 ft.	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2109**	—
11 ft.	½"	0.035"	10/14	Variable	—	**6VDU7**
11 ft.	1"	0.035"	4/6, 6/10, 8/12, 10/14, ⅝	Variable	**G2110**	**G2142**
11 ft. 1"	¾"	0.035"	10/14	Variable	**4WA98**	**6VDX9**
11 ft. 3"	1"	0.035"	4/6, 6/10, 8/12, 10, 10/14, ⅝	Variable, Raker	**G2111**	—
11 ft. 3"	1"	0.035"	4/6, 6/10, 8/12, 10/14, ⅝	Variable	—	**G2143**
11 ft. 5"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2112**	—
11 ft. 5"	½"	0.025"	8/12	Variable	—	**6VDW1**
11 ft. 5"	½"	0.035"	10/14	Variable	—	**6VDU8**
11 ft. 5"	¾"	0.035"	10/14	Variable	**4WA99**	**6VDY0**
11 ft. 6"	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2113**	—
11 ft. 6"	½"	0.025"	8/12	Variable	—	**6VDW2**
11 ft. 6"	½"	0.035"	10/14	Variable	—	**6VDU9**
11 ft. 6"	¾"	0.035"	4/6, 6/10, 8, 8/12, 10, 10/14, 14	Variable, Raker	**G2114**	—
11 ft. 6"	¾"	0.035"	4/6, 6/10, 8/12, 10/14, ⅝	Variable	—	**G2144**
11 ft. 6"	1"	0.035"	4/6, 6/10, 8/12, 10, 10/14, ⅝	Variable, Raker	**G2115**	—
11 ft. 6"	1"	0.035"	4/6, 6/10, 8/12, 10/14, ¾, ⅝	Variable	—	**G2145**
12 ft.	1"	0.035"	8/12, 10, ⅝	Variable, Raker	**G2116**	—
12 ft.	1"	0.035"	8/12, ⅝	Variable	—	**G2146**
12 ft. 4"	1"	0.035"	4/6, ¾	Variable	—	**G2147**
12 ft. 6"	½"	0.025"	10/14, 14	Variable, Raker	**G2117**	—
12 ft. 6"	½"	0.035"	6, 10/14	Hook, Variable	—	**G2148**
12 ft. 6"	½"	0.035"	10/14	Variable	**4YB55**	—
12 ft. 6"	1"	0.035"	6/10, 8/12, ⅝	Variable	**G2118**	**G2149**
13 ft.	½"	0.025"	6/10, 8/12, 10/14	Variable	**G2119**	—
13 ft.	½"	0.025"	8/12	Variable	—	**6VDW3**
13 ft.	½"	0.035"	10/14	Variable	—	**6VDV1**
13 ft.	¾"	0.035"	8/12, 10/14	Variable	**G2081**	—
13 ft.	1"	0.035"	8/12	Variable	**4WB39**	**6YPC5**
13 ft. 2"	1"	0.035"	6/10	Variable	**G2120**	**6YPA1**
13 ft. 3"	½"	0.025"	14	Raker	**2CDN5**	—
13 ft. 3"	½"	0.035"	14	Raker	—	**6VDV4**
13 ft. 3"	1"	0.035"	4/6, 6/10, ⅝	Variable	**G2121**	**G2152**
13 ft. 6"	1"	0.035"	4/6, 6/10, 8/12, ⅝	Variable	**G2122**	**G2153**
13 ft. 7"	¾"	0.032"	8/12, 10/14	Variable	**G2123**	—
13 ft. 11"	1"	0.035"	6/10, 8/12	Variable	**G2124**	**G2154**
14 ft. 6"	1"	0.035"	4/6, 8/12, 10/14, ⅝	Variable	—	**G2155**
14 ft. 6"	1"	0.035"	6/10, 8/12, 10/14, ⅝	Variable	**G2125**	—
14 ft. 6"	1¼"	0.042"	4/6	Variable	**4WB69**	—
14 ft. 6"	1¼"	0.042"	4/6, ¾	Variable	—	**G2156**

L	W	Thickness	▶CHOOSE: Teeth per Inch	Tooth Type	CHALLENGER Item No.	MAVERICK Item No.
Welded-to-Length						
7 ft. 9"	¾"	0.035"	8/11	Variable	**20UJ42**	—
7 ft. 9"	1"	0.035"	8/11	Variable	**20UJ48**	—
8 ft. 10"	1"	0.035"	8/11	Variable	**20UJ49**	—
9 ft. 6"	¾"	0.035"	8/11	Variable	**20UJ43**	—
9 ft. 8"	1"	0.035"	¾	Raker	—	**493V79**
10 ft.	¾"	0.035"	8/11	Variable	**20UJ44**	—
10 ft.	1"	0.035"	4/6, 5/7	Variable	**H3560**	—
10 ft. 2"	1"	0.035"	¾	Raker	—	**493V80**
10 ft. 4"	1"	0.035"	4/6, 5/7	Variable	**H3562**	—
10 ft. 6"	1"	0.035"	¾	Raker	—	**493V81**
10 ft. 10½"	1"	0.035"	4/6, 5/7	Variable	**H3561**	—
10 ft. 10½"	1"	0.035"	¾	Raker	—	**493V82**
11 ft.	1"	0.035"	4/6, 5/7	Variable	**H3563**	—
11 ft.	1"	0.035"	¾	Raker	—	**493V83**
11 ft. 5"	1"	0.035"	4/6, 5/7	Variable	**H3564**	—
11 ft. 6"	¾"	0.035"	8/11	Variable	**20UJ46**	—
11 ft. 6"	1"	0.035"	4/6, 5/7	Variable	**H3565**	—
11 ft. 6"	1"	0.035"	¾	Raker	—	**493V84**
11 ft. 6"	1¼"	0.042"	4/6, 5/7, ⅔, ¾	Variable	**H3566**	—
12 ft.	1"	0.035"	4/6, 5/7	Variable	**H3567**	—
12 ft.	1"	0.035"	¾	Raker	—	**493V86**
12 ft.	1¼"	0.042"	4/6, 5/7, ¾	Variable	**H3568**	—
12 ft. 3"	1"	0.035"	¾	Raker	—	**493V87**
12 ft. 6"	1"	0.035"	4/6, 5/7	Variable	**H3570**	—
12 ft. 6"	1"	0.035"	¾	Raker	—	**493V89**
12 ft. 6"	1¼"	0.042"	4/6, 5/7, ¾	Variable	**H3571**	—
13 ft. 2"	1"	0.035"	4/6	Variable	**45L456**	—
13 ft. 3"	1"	0.035"	4/6, 5/7	Variable	**H3573**	—
13 ft. 5"	1¼"	0.042"	5/7, ¾	Variable	**H3574**	—
13 ft. 6"	1"	0.035"	4/6, 5/7	Variable	**H3576**	—
13 ft. 6"	1¼"	0.042"	4/6, 5/7, ¾	Variable	**H3575**	—
13 ft. 11"	1"	0.035"	4/6, 5/7	Variable	**H3572**	—
14 ft. 3"	1¼"	0.042"	4/6, 5/7	Variable	**H3577**	—
14 ft. 6"	¾"	0.035"	8/11	Variable	**20UJ47**	—
14 ft. 6"	1"	0.035"	4/6, 5/7	Variable	**H3578**	—
14 ft. 6"	1¼"	0.042"	4/6, 5/7, ⅔, ¾	Variable	**H3579**	—

BAILEIGH

Hydraulic Press Brake

- Bends a maximum capacity of 0.25" mild steel
- Includes a hardened multi-Vee bottom die
- Ships fully assembled

With a 2 HP motor, this brake is the perfect choice for smaller projects that require quick bends; produces 42 tons of pressure and runs on 220V single phase power, so it will work in just about any shop, even when power is limited. Easy-to-use unit is controlled by a simple foot pedal, so your hands are free to guide the material. The 19.5"L manual back gauge makes it simple to create repeat parts.



Frame Capacity	Working Height	Working Width	Total Height	Total Width	Mfr. Model	Item No.
31 tons	2"	42"	72"	48"	BP-3142NC	**36HZ25**



Floor Brake
No. 13W877



Manual Brake
No. 18F316



Floor Brake w/Foot Clamp
No. 18F202

Dayton BAILEIGH JET

Box and Pan Brakes

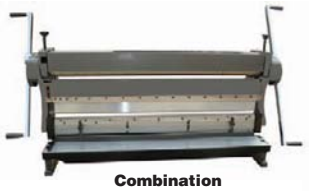
Use for box, pan, and reverse bending of sheet metal.

Dayton—Include extension handles, counterweights and apron stop.

Baileigh—Manual Brake offers a 22-finger assortment. Magnetic Brake has a bend-angle indicator and stop rod for repeatability, an adjustable beam for varying sheet thickness, and a 17-finger assortment.

JET—Installed fingers can be used as a full-length nose bar, turning machines into straight-bending brakes. Stop rod provides repeatable bending. No. 48RJ44 has section fingers that can be easily removed. No. 48RJ42 has welded steel plates with heavy truss rods and braces. Bed and apron are bored in line. Counter weights have adjustable leverage. Floor Brake No. 18F202 has black ceramic-coated fingers. Hydraulic spring assists in raising handle.

Description	Cap. of Mild Steel (Gauge)	Bending Length (in.)	Max. Box Depth (in.)	Max. Lift of Beam (in.)	Finger Width (in.)	Mfr. Model	Item No.
Dayton							
Bench Brake	16	48¼	4	1¼	2,3,4	13W876	**13W876**
	20	24	1⅜	⅜	1,2,3,8,10	12G598	**12G598**
Floor Brake	12	51	4	2½	3,4,5,20	13W877	**13W877**
	12	40	6	1⅞	25, 30, 35, 40, 45, 50, 75, 100, 150, 200, 270mm	12G599	**12G599**
Metal Brake	16	36	—	—	—	45J326	**45J326**
Bench Brake Stand, 31"H x 60"W x 17"D						13W874	**13W874**
Baileigh Industrial							
Box and Pan Brake	10	72	6	1	3, 4, 5, 6	BB-7210H	**31XT99**
Manual Box And Pan Brake	12	96	6	2	3,4,5,6	BB-9612	**18F316**
Magnetic Box And Pan Brake	16	72	—	2	—	BB-7216M	**18F317**
JET							
Box and Pan Brake	16	50	4	1¼	2, 3, 4	754105	**48RJ44**
	14	100	4	2¼	2½, 3, 3½, 4, 5, 6, 12	754115	**48RJ42**
Floor Brake w/ Foot Clamp	12	40	2½	1⅞	1⅛", 1⅜", 1½", 1¾", 2", 3", 4", 6", 7¾", 10⅝"	752125	**18F202**



Combination
Shear/Brake/Roll
No. 12G597



Electric
Plate Roller
No. 53ZC94

Dayton JET BAILEIGH

Shear, Brake, and Roll Machines

Ideal for sheet metal applications. Rolls have wire grooves.

Dayton—Feature dual-edge blade which is adjustable and reversible. Hold-down is positioned to allow visual location of the shear line. Bend mild steel with high carbon, heat-treated steel male dies. Continuous female V-shaped forming die. Rolls to an unlimited maximum height stop-block. 2 extension bars with 90° angle. Iron adjustable length stop.

JET—Shear on No. 42W893 features right- or left-hand operation for use on mild steel, aluminum, brass, copper, lead, plastic, and zinc. Removable fingers permit angle, channel, and box bending operations. Include set of male dies, set of female dies, dual-edge shear blade, spring-loaded work hold-down, and back gauge. Electric Plate Roller No. 53ZC94 uses 3 rolls with 2 drive rolls, made of precision turned, ground, and polished carbon steel. Heavy-duty frame and base for precise sheet metal rolling. Foot-control assembly with emergency stop.

Baileigh—Bench-mounted, manually operated unit No. 15VZ85 has a manual sheet metal shear with a spring-loaded clamp. Includes removable and movable segmented top fingers on brake. No. 31XV42 is hydraulically driven mild steel roll former. Features digital readout for tracking the position of the back roll and dual emergency stop cables.

Description	Cutting Width (in.)	Cap. of Mild Steel (Gauge)	Bending Length (in.)	Rolls	Item No.
Dayton					
Combination Shear, Brake And Roll	12	20	12	Min. 1½"	**12G596**
	30	20	30¼	Min 1½"	**13W869**
	40½	20	40½	Min 1 11/16"	**13W873**
	52	16	52	Min. 2⅜"	**12G597**
JET					
Shear/Brake/Roll	40	20	40	3	**42W893**
Electric Plate Roller	—	14	60	3	**53ZC94**
Baileigh Industrial					
3 in 1 Shear Brake Roll	52	16	52	Min 1.70"	**15V785**
Plate Roll	—	0.25	48	3	**31XV42**



Manual
No. 13W883



Electric
No. 42W899

Dayton JET

Slip Rolls

Use to form sheet metal into cylinders, reverse curves, and radius bends.

Manual—Front-mounted handle and adjustable screws to accommodate a range of sheet metal gauges. Bench or table mount.

Electric—Three-roll machines have 2 driven rolls for sheet metal forming in HVAC and fabrication shops. Forming roll has position scale for equal pressure adjustment. Features easy-to-use forward and reverse foot pedal with emergency stop.

Max. Forming Width (in.)	Max. Cap.	Dia. of Rolls (in.)	Min. Radius (in.)	Brand	Item No.
Manual Slip Rolls					
24	20 Ga.	1½	¾	Dayton	**13W881**
24	20 Ga.	2	1	JET	**18F206**
36	16 Ga.	2	1	Dayton	**13W882**
36	22 Ga.	2	1	JET	**18F207**
50	16 Ga.	3	1½	Dayton	**13W883**
50	16 Ga.	3	2	JET	**18F208**
Electric Slip Roll					
50	16 ga.	3	2	JET	**42W899**



Hydraulic Shear
No. 15V783



Pneumatic Shear
No. 18F220

Foot, Pneumatic, and Hydraulic Shears

Foot Shears—Use to shear mild steel, plastic, lead, zinc, aluminum, brass, and copper. Dayton® models include pedal stops, handwell, double-locking back gauge with microadjustment, and front work stop. No. 13W878 also features transparent finger guards, embossed scales, and front arm extensions.

Pneumatic—Precise bed and beam alignment help ensure accuracy. Working bed adjusts for correct set up according to the blade clearance. Low cutting angle cuts narrow strips without twisting. High-quality cast-iron frame eliminates deflection across the blade span and framework.

Hydraulic—Baileigh® models are 220V, 3-phase and include back or side gauges. No. 15V784 has a centralized control panel to select jog, single, or continuous cutting modes. Dial adjusts the rake to eliminate curl and twist. Upper blade is 2-sided; lower blade is 4-sided. No. 31XV78 features a 60" wide cutting capacity and multiple shearing edges. Produce one cut with one foot pedal push, or remain in an auto mode by holding the foot pedal down. Hold-downs clamp the material to the feed table so it doesn't lift when being sheared. No. 15V783 has top and bottom shearing blades with multiple cutting edges and hold-down carriage with 9 fingers. Switch allows the fabricator to jog the blade, do one cycle or cut, or go into an automatic mode.

Alligator Shears—Hydraulic shear has ample 3 HP motors for effortless shearing, saving time and increasing productivity.

Length of Cut (in.)	Cap. of Mild Steel (Gauge)	Back Gauge Length (in.)	Brand	Item No.
Foot Shears				
40	16	0 to 27	Dayton	**13W872**
52	16	0 to 32	Dayton	**13W878**
Pneumatic Shears				
52	16	28½	JET	**18F220**
Hydraulic Shears				
52	10	23-31/50	Baileigh Industrial	**15V784**
60		24	Baileigh Industrial	**31XV78**
60	14	24	Baileigh Industrial	**15V783**

Max. Force (tons)	Speed (Strokes/min.)	Throat Depth (in.)	Features	Amps	Brand	Mfr. Model	Item No.
Hydraulic Alligator Shear							
50s	6	1	Shear Flat Bar Up to 4" x ½" or 6" x 5/16", Shears Square Bar ¾" Thick, Shears Round Bar and Cable ¾" dia.	4	Edwards	SH7-3P460	**454R64**
			Shear Flat Bar Up to 4" x ½" or 6" x 5/16", Shears Square Bar ¾" Thick, Shears Round Bar and Cable ¾" dia.	8		SH7-3P230	**454R63**
				15		SH7-1P230	**454R62**

Plate Shears


No.
13W871

Dayton—No. 45J334 also has round blade. Nos. 13W879 and 13W871 have replaceable tool steel blade and adjustable hold-down clamp. No. 13W879 has a spring-loaded handle.

Baileigh—Gear-driven unit shears flat and round stock. Designed with adjustable material hold-down, multi-edge blades, and spring-assisted action for increased leverage.

Length of Blade (in.)	Cutting Flat (in.)	Cutting Cap. Round (in.)	Brand	Item No.
—	4 x ⅜	0.625	Dayton	**45J334**
8	8 x ¼	7/16	Dayton	**13W879**
8	6½ x 15/64	½	Baileigh	**15V799**
12	12 x ¼	½	Dayton	**13W871**

Notchers


Metal Notcher
No. 13W870

Metal Notchers—Use Dayton for notching box, chassis, and panel blanks. Lower blade can be reversed and sharpened. Triangular ram controls cutting head alignment. No. 12G601 has foot control pedal. JET No. 42W825 has a fixed cutting angle of 90° and can notch up to 6" x 6" in one manual stroke.

Tube Notchers—No. 18F312 is a 6-jaw radial vise with clamping jaws. Features 1¼" hardened Thompson shaft with replaceable tips and slotted carriage for offset notches (no shims).

Hole Saw Notcher—Features 360° rotation and offset notching with up to ¾" of vertical movement. Vertical motor orientation reduces vibration. Includes integrated drawer, multiple scales, alignment guides, and chip guard.


Tube Notcher
No. 18F312

Stroke (in.)	Max. Notch	Gauge	Brand	Item No.
Metal Notchers				
¾	6¼" x 6¼" x 90°	16	Dayton	**13W870**
¾	6" X 6"	16	JET	**42W825**
1⅛	3⅛ x 3⅛ x 90°	16	Dayton	**12G601**
	Floor Stand		JET	**42W764**

Notch Capacity O.D.	Angle Adjustment	Brand	Item No.
Tube Notchers			
1 to 2.5"	0 to 220°	Baileigh Industrial	**18F312**
2	—	Dayton	**45J337**
2	—	Dayton	**45J338**

Material	Cutting Cap. (in.)	Size (in.)	Brand	Mfr. Model	Item No.
Hole Saw Notcher					
Steel	⅝ x 2½ Pipe, ¾ x 3 Tube	27¼ L x 18½ W x 29½ H	Edwards	HS1000	**454R65**

Manual Tube Bender



- See Grainger.com® for die sets and accessories

Bender is suitable for round pipe from ⅜" to ⅞" and square pipe from ¾" and 1".

Bend Angle (Deg.)	Centerline Bend Radius	Outside Dia. Tubing (in.)	Item No.
0 to 180	2, 2¼, 2½, 3, 3½, 4¼, 3¾, 4¼	⅜, ½, 9/16, ⅝, ¾, ⅞, ¾, 1	**45J339**

Tube Rollers



Performs large radius bends with many different tooling options.

Description	Item No.
Manual Roller	**45J333**

Arbor Presses

Note: Pneumatic and Compound Arbor Presses are available on Grainger.com®.

Standard—Dayton® models provide heavy pressure, and feature a machined table with a slotted, removable, 4-position revolving anvil. JET model has precision-machined base, ram housing, framework, and 4-position bottom plate. Dake® single-leverage press has a shimmed ram cap and adjustable handle.

Ratcheting—Use for consistent application of force when needed for broaching or pressing large items. Ratchet device lets the lever be used in the most convenient position. Has counterweight for rapid handle return and quick ram advance via the side-mounted handwheel. Rotating table has 4 slots.



No. 4Z328



No. 4Z329



No. 40F018



No. 40F020

Force in Tons	Swing (in.)	Table Work Surface (in.)	Anvil Dia. Work Area (in.)	Range of Slot Widths (in.)	Max. Work Height (in.)	Ram Dim. (in.)	Ram Hole Dia. x Depth (in.)	H (in.)	Base Size (in.)	Brand	Item No.
Standard											
1	8"	5¾ x 4¼"	4½	45⁄64 to 1 27⁄64	6	1 x 1	½ x 1	11"	6⅛ x 10½"	Dayton	**4Z328**
2	11"	7¼ x 6"	6¾	3⁄32 to 2 13⁄64	8"	1¼ x 1¼"	½ x 1"	15"	7⅞ x 15¾"	Dayton	**4Z329**
3	7	5.5 x 5.5	6⅞	13⁄16 to 1 13⁄16	11.50	1¼ x 1¼ x 16.5	—	19	7¼ x 18	Dake	**40F018**
	10¾	—	6 1⁄16	—	12½	1½ x 18	½	21½	8½ x 18	JET	**42W946**
	12"	8⅛ x 8½"	6⅝	1 to 2	12¼"	1½ x 1½"	½ x 1"	21¼"	9½ x 17 ¾	Dayton	**3Z949**
4	16¾"	10 x 10¼"	9½	¾ to 2¾	15¾"	1¾ x 1¾"	½ x 1"	27¼"	10¾ x 21-"/8	Dayton	**5Z077**
Ratcheting											
3	7	5.5 x 5.5	6⅞	13⁄16 to 1 13⁄16	11.5	1¼ x 1¼ x 16.5	—	19	7¼ x 18	Dake	**40F020**

H Frame Hydraulic Presses

For pressing, bending, and straightening operations.

Manual—Dake models feature a single-speed hand pump, and a large dia. single-acting polished piston with a top-mounted gauge. Cylinder can be relocated to the right or left. Table is adjustable. JET® hand-operated presses have pressure gauge for direct pressure readings. Hand crank raises and lowers table, and ram moves laterally.

Electric—Dake® models feature lever control ram advance and a double-acting cylinder. 1-hand ram positioning with 4-way valve hydraulic control. Edwards® presses have rolling cylinder for maximum adaptability, while open-sided design allows longer material to pass through the frame. Electric foot pedal has integrated jog control. Includes hydraulic-assist adjustable worktable height, pressure gauge, and 20-ft. quick-connect hoses. Nos. 454R58 and 454R60 offer adjustable up/down stroke control. Adjustable PSI allows the user to set the desired pressure accurately.

Air—Feature industrial-grade hydraulic components, fully-welded solid steel frames, and V-block set. No. 31XV11 has adjustable table and includes pressure regulator and gauge. Made of rigid, electro-welded steel. No. 31XV13 has foot pedal and manual hand pump to lift and lower the working table.



No. 40F053



No. 40F046



No. 454R57



No. 31XV11

Frame Capacity (tons)	Cylinder Stroke	Working Height	Working Width	Application	Brand	Mfr. Model	Item No.
Manual							
10	6"	16"	16¾"	Pressing, Straightening, Bending, Forming, Punching, Staking and Clamping	Dake	972200	**40F053**
10	6"	38"	16¾"		Dake	972210	**40F054**
15	4½"	—	—	Pressing, Bending and Straightening Operations	Jet	331416	**42W948**
25	6"	—	20"	—	Westward	—	**1MZJ4**
35	4¾"	—	—	Pressing, Bending and Straightening Operations	Jet	331431	**42W949**
Electric							
25	10"	44"	28"	Pressing, Straightening, Bending, Forming, Punching, Staking and Clamping	Dake	909215	**40F046**
50	16"	41¾"	44"		Dake	909250	**40F047**
55	12"	42"	39"	Bending, Crimping, Forming, Maintenance, Metalworking, Pressing, Pressing Bearings	Edwards	HAT8000	**454R57**
55	12"	42"	39"	Bending, Crimping, Forming, Maintenance, Metalworking, Pressing, Pressing Bearings, Programmable Controls	Edwards	HAT8050	**454R58**
110	12"	48"	37"	Bending, Crimping, Forming, Maintenance, Metalworking, Pressing, Pressing Bearings	Edwards	HAT9000	**454R59**
110	12"	48"	37"	Bending, Crimping, Forming, Maintenance, Metalworking, Pressing, Pressing Bearings, Programmable Controls	Edwards	HAT9050	**454R60**
Air							
20	7½"	2 to 41"	19¼"	Pressing	Baileigh	HSP-20A	**31XV11**
30	6"	2 to 44"	22½"		Baileigh	HSP-30A	**31XV12**
50	7¾"	2½ to 44"	28½"		Baileigh	HSP-50A	**31XV13**
75	9¾"	2½ to 34½"	31½"		Baileigh	HSP-75A	**31XV14**



No. 3ZJ45



No. 419J38



No. 53DK34



No. 31XW04

METALpro marvel BAILEIGH

Ironworkers

Use for punching, shearing, forming, bending, pressing, and notching.

Metalpro—Punching station is punch-ready with 2" die holder, stripper, and punch retaining nut. 3-in-1 shear included.

Marvel—Heavy-duty dual cylinder ironworkers feature 5 workstations and simultaneous dual operation. Power cavity features single and multi-vee press brakes, pipe notcher, and louvre punch. Punching station has double-acting punch cylinder, see-through stripper, and 2-hole die holder.

Edwards—All feature electric stroke control, punch assembly with pedestal die table, flat bar shear, and angle shear. Can be used as open tooling stations. 4 available workstations except Nos. 53DK38 and 53DK39 which have 5.

Baileigh—Hydraulic ironworkers feature 5 integrated stations for punching; flat bar, angle, or bar shearing; and rectangle notching. Pure vertical hydraulic movement at each station produces clean cuts, notches, and holes. Large, 2-piece worktables accommodate oversized materials. Tooling can be changed in seconds. No. 31XW04 has a dual-operator design that lets 2 people work simultaneously at opposite ends of the machine without losing power at either station.

Max. Force (tons)	Hydraulic Pressure (psi)	Speed (Strokes/ min.)	Throat Depth (in.)	Motor HP	Phase	Voltage	Oil Cap. (gal.)	H (in.)	W (in.)	L (in.)	Item No.
Metalpro											
40	2500	6	3¾	¾	1	110	1.0	55¼	24"	30"	**3ZJ45**
45	2900	8	3¾	1½	1	115	1.5	55¼	24	37	**1UC51**
Marvel											
84	3690	23	14	10	3	230	26.4	80	38	75	**419J38**
95	3690	23	14	15	3	230	26.4	86	38	81	**419J40**
Edwards											
40	2750	23	7	5	1	230	7	67	51	45	**53DK30**
	2750	23	7	5	3	230	7	67	51	45	**53DK31**
55	2500	23	7½	5	1	230	7	62	51	45	**53DK34**
	2500	23	7½	5	3	230	7	62	51	45	**53DK35**
65	3500	23	9¾	7½	1	230	17	63	69	46	**53DK38**
	3500	23	9¾	7½	3	230	17	63	69	46	**53DK39**
Baileigh Industrial											
62	3500	28	8	5	1	220	18.5	68	30	45	**31XW02**
	3500	28	8	5	3	220	18.5	68	30	45	**15V751**
95	4200	38	16	10	3	220	49.5	73 13/32	40 7/64	70 39/64	**31XW04**



No. 445L81

BAILEIGH

Water Jet CNC

- 3-phase
- 480VAC

Cuts glass, granite, ceramic, plastic, foam, mild steel, stainless steel, titanium, aluminum, and copper. Cantilever design allows for much easier material loading and unloading. Exclusion of moving parts allows for smooth operation. Slide ways are covered and protected from water for long life. Frame is laser cut, interlocked, and welded for rigidity and accuracy. Includes proprietary abrasive auto feed system.

No. of Axis	Table Dimensions	Max. Cutting Cap. Mild Steel	Max. Cutting Cap. Stainless Steel	X Axis Travel	Z Axis Travel	Mfr. Model	Item No.
3	4 ft. x 4 ft.	3½"	2¼"	50"	5"	WJ-4x4CNC	**445L80**
3	8 ft. x 5 ft.	3½"	2¼"	98"	5"	WJ-85CNC	**445L81**



No. 42W349

BAILEIGH

Plasma Cutters

- Air plasma 80% duty cycle
- See page 2422 for Air Plasma Cutting Systems

Automated cutters are designed with 1Torch technology which provides reliable starts and helps eliminate electronic interference. CNC interface includes Start/Stop input and OK to Move output functions. No. 42W349 has a 1" maximum edge start cut. No. 42W351 has a 1½" maximum edge start cut.

Series	Cutting Cap. (in.)	Rated Output	PSI	Input Voltage	Item No.
Cutmaster A60	⅜	60A	75	220/440V	**42W349**
Cutmaster A120	⅝	120A	75	220/440V	**42W351**



No. 49H004



No. 48RJ30


No. 2LKR9



No. 18F215


No. 16W005

DEWALT Dayton JET metabo

Bench Grinders and Buffers

GENERAL PURPOSE GRINDERS

DeWalt®—Designed with precision-machined aluminum tool rests. 12½" distance between wheels.

Dayton®—Include tool rests and drill bit sharpening plate. Slow speed model No. 49H004 is designed for sharpening, and has a magnifying lens and locking rocker switch. Includes abrasive wheels (60 and 120 grit). Variable speed No. 49H008 includes open wire wheel, 60 grit abrasive wheel, and flexible worklight (bulb not included).

HEAVY-DUTY GRINDERS

Dayton®—All models include eyeshields, adjustable tool rest, and 2 grinding wheels, except No. 2LKR5 which includes one 36-grit wheel and one wire brush. No. 1FYX2 includes stand and quench pot. Grinder packages include grinder, wheel dresser, and stand with quench pot.

JET®—Feature large eye shields with quick adjustment, cast-iron guards and dust chutes, and adjustable cast-iron tool rests. Include 1-pc. quick-adjusting spark guards, fine and coarse vitrified grinding wheels. Nos. 18F216 and 18F217 have heavy-duty guarded toggle switch.

Metabo®—Feature dust-protected emergency stop switch, adjustable workpiece support without tools, large spark protection guards, and vibration-dampening rubber feet. No-volt release switch prevents unintentional startup after power cut. No. 38D139 is built for detailed sharpening, grinding, and deburring tasks. Nos. 38D140 and 38D141 are powerful enough for big jobs with die-cast aluminum protective covers.

Finishing Wheel Diameter	Finishing Wheel Width	Arbor Hole Size	Wheels Center-Center	HP	Voltage	Amps	Max. RPM	No Load RPM	Dust Collection	Brand	Item No.
General Purpose Grinders, Single-Phase											
6"	¾"	½"	20"	⅝	120	4.2	3450	3450	No	DeWalt	**4PC39**
8"	1"	⅝"	11½"	⅓	120	3.0	1725	1725	No	Dayton	**49H004**
	1"	⅝"	12⅜"	½	120	5.0	3450	3450	No	Dayton	**49H008**
	1"	⅝"	21¾"	¾	120	4.2	3600	3600	Yes	DeWalt	**4PC40**
Heavy-Duty Grinders, Single-Phase											
6"	¾"	½"	14¼"	¼	120/240	3.0/1.5	3450	3450	No	Dayton	**2LKR5**
	¾"	½"	14¼"	⅓	120/240	3.5/1.75	3450	3450	No	Dayton	**2LKR6**
	¾"	½"	14¼"	½	115	3.0/1.5	3450	3450	No	JET	**18F215**
	¾"	½"	15"	½	115	8.8/4.4	3450	3450	Yes	Dayton	**38UK59**
7"	1"	⅝"	15½"	½	120/240	5.0/2.5	3450	3450	Yes	Dayton	**2LKR8**
	1"	1"	18$^{29}/_{32}$"	1	120	3.7	3570	3570	Yes	Metabo	**38D139**
8"	1"	⅝"	—	1	115	12	3450	3450	Yes	JET	**48RJ30** *
	1"	⅝"	14¼"	1	115	3.5/1.75	3450	3450	No	JET	**18F216**
	1"	⅝"	15½"	¾	120/240	7.0/3.5	3450	3450	Yes	Dayton	**2LKR9**
	1"	⅝"	16½"	1	115	13.6/6.8	3450	3450	Yes	Dayton	**38UK60**
	1"	1¼"	18$^{29}/_{32}$"	1	120	4.8	3570	3570	Yes	Metabo	**38D140**
10"	1"	1"	14⅞"	1½	115	3.5	1725	1725	Yes	JET	**18F217**
	1"	1"	19½"	1	120/240	10.0/5.0	1725	1725	Yes	Dayton	**2LKT2**
	1"	1"	20"	1½	115	15.2/7.6	1725	1725	Yes	Dayton	**38UK62**
	1½"	1¼"	20$^{29}/_{32}$"	1	120	7.5	1780	1780	Yes	Metabo	**38D141**
12"	2"	1¼"	21¾"	2	240	10	1800	1800	Yes	Dayton	**1FYX2** *
Heavy-Duty Grinders, 3-Phase											
8"	1"	⅝"	15⅜"	¾	220/440	2.2/1.1	3450	3450	Yes	Dayton	**2LKT1**
	1"	¾"	16½"	1	230	5.0/2.5	3450	3450	Yes	Dayton	**38UK61**
10"	1"	1"	19½"	1	220/440	3.3/1.65	1725	1725	Yes	Dayton	**2LKT3**
	1"	1"	20"	1¾	230	4.6/2.4	1725	1725	Yes	Dayton	**38UK63**
12"	2"	1¼"	21"	3	230	8.7	1720	1800	Yes	Dayton	**38UK64** *
Heavy-Duty Grinder/Buffers											
6"	¾"	½"	15"	⅓	120/240	3.5/1.75	3450	3450	No	Dayton	**16W005**
8"	1"	⅝"	16¾"	¾	120/240	7.0/3.5	3450	3450	Yes	Dayton	**16W006**

Description	For Use With	Brand	Item No.
Accessories			
Grinding Wheel Dresser, 1¼" Dia. x 8½" L	Grinding Wheel Up to 1" Width	Dayton	**2X951**
Grinding Wheel Dresser, 2⅜" Dia. x 14½" L	Grinding Wheel Up to 3" Width	Dayton	**6Z851**
Eye Shield Kit	Most Bench Grinders	Dayton	**5PZP2**
Heavy-Duty Stand w/Quench Pot, 31¾"H, 10 L x 11 W" Table Size	Most Bench Grinders	Dayton	**4Z154**
Gooseneck Task Light	All Dayton Bench Grinders And Belt Grinders	Dayton	**16W004**
Bench Grinder Stand, 31½"H	5" to 8" Bench Grinders	Dayton	**49H005**

** Includes floor stand*



No. 31XU09



No. 40F064


No. 2RYN7


No. 21VH72



No. 3WRR3



No. 42W959

BAILEIGH · DAKE a JSJ business · Dayton · Fein · JET

Belt Grinders

- For replacement belts see Grainger.com®

Baileigh—Ideal for smoothing over burrs on metal, chamfering edges for welding, and cleaning up castings. Nos. 31XU09 and 31XU10 can accommodate large and uncommon-shaped parts. No. 31XU08 includes 3 quickly interchangeable grinding tables. No. 31XU11 has a triangular base to let you pivot the unit to the desired angle. No. 31XU12 opens to provide a flat grinding position. Vacuum motor extracts and collects metal dust.

Dake®—Advanced belt tracking includes a fixed, vented front wheel for grinding on the wheel radius. Pivots up and down for work height adjustments. Hinged top cover lets you grind large pieces using the entire length of the belt.

Fein—Modular expandable grinders provide rapid material removal and feature an adjustable base and belt tracking system; ideal for metal machining. Detachable chip collection allows easy clean up. Include stand, belt grinder, and 36 grit grinding belt.

JET®—Nos. 53ZC60 to 53ZC63 feature cast metal frame, integrated dust chute, and quick belt change. No. 3WRN4 features flat platen; ideal for grinding and refinishing cylindrical shapes. The serrated contact wheel can be used for removing heavy stock, cleaning a weld, or snagging a casting. Nos. 3WRR3 and 42W965 tilt 45° out and 20° in. They feature variable-position locks and head adjustment, plain and compound miters, adjustable cast-iron removable platen, and removable upper guard. Include miter gauge and stand. Nos. 42W958 and 42W959 pivot up and down; a hinged top cover lets you grind large pieces. Advanced belt tracking has fixed, vented front wheel.

Mounting	HP	Voltage	Phase	Amps AC	Belt Size (in.)	Belt SFPM	Platen Size (in.)	Table Work Surface (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Mfr. Model	Item No.
Baileigh													
Bench	1½	110	1	20	2 x 60	800 to 8000	—	—	—	—	—	BG-260-3-110	**31XU09**
	1½	220	1	15	3 x 60	800 to 8000	—	—	—	—	—	BG-260-3-220	**31XU10**
Floor	1½	110	1	20	2 x 48	3600	—	—	—	—	—	BG-248-3	**31XU08**
	4	220	3	15	3 x 73¾	6691	—	—	—	—	—	BG-379	**31XU11**
	4	220	3	15	6 x 73¾	3937	—	—	—	—	—	BG-679	**31XU12**
Dake													
Floor	4	220/240	3	11.0	3 x 79	6600	3 x 21	1⅝ x 4¾	43	22	39	961001	**40F064**
Dayton													
Bench	½	120/240	1	5.0/2.5	1 x 42	1800	10 x 1½	3 x 3	24	16	22	—	**2RYN6**
	¾	120/240	1	7.0/3.5	4 x 36	3600	4 ½ x 7 ½	2½ x 5	21	20	19	—	**2RYN8**
	¾	120/240	1	7.0/3.5	2 x 48	4500	12¼ x 2½	2½ x 5	26	16½	25	—	**2RYN7**
Fein													
Floor	4.0	220.0	3	14.0	3 x 79	2850	3 x 18	3	30	20	40	79012109233	**21VH73**
	4.0	440.0	3	6.8	3 x 79	2850	3 x 18	3	30	20	40	GX 75	**21VH72**
JET													
Bench	¾	115/230	1	8	1 x 42	5500	—	2¼ x 4½	20 5/16"	18⅝"	20 13/32"	BGB-142	**53ZC60**
	1	115/230	1	7.3	2 x 48	6000	—	2¼ x 4½	22 1/32"	19"	20⅝"	BGB-248	**53ZC61**
	1	115/230	1	15.0/7.5	2 x 72	4600	—	—	17	31	17	577000	**3WRN4**
	1½	115/230	1	7	2 x 60	8000	—	2¼ x 4½	26 1/16"	21"	23 3/32"	BGB-260-1	**53ZC62**
	3	230/460	3	4	2 x 60	8000	—	2¼ x 4½	26 1/16"	21"	23 3/32"	BGB-260-3	**53ZC63**
Floor	1½	115/230	1	12.6/6.3	6 x 48	2850	6 ¼ x 14 ¾	7⅜ x 14¾	58	16	29	414600	**3WRR3**
	1½	230	3	4.6/2.3	6 x 48	2850	6¼ x 14¾	7⅜ x 14¾	58	16	29	414601	**42W965**
	4	220	1	15.2	3 x 79	6600	—	—	44	25	43	414610	**42W958**
	4	220	3	4.9/2.2	3 x 79	6600	—	—	44	25	43	414615	**42W959**

Belt/Disc Grinders and Sanders

Dayton®—Grinders have adjustable belt for vertical and horizontal positioning. Include front-mounted On/Off switch and built-in dust collection ports. No. 6Y945 bench model is direct drive from motor to disc and belt. Includes miter gauge and dust collection port. Floor Models include a quick-release tension mechanism for fast, easy belt changes. Come with tilting table and miter gauge. No. 49G990 includes an open floor stand. Nos. 49G992 includes a fully enclosed stand.

JET®—No. 42W960 has a deluxe miter gauge that turns and locks for common angles, 45° both left and right. Abrasive belt unit works like a jigsaw, coping saw, and hand file while removing material and finishing. No. 42W970 has preset stops at 90° and 45° for vertical or horizontal use. Dual thumb-screw belt tracking locks. Floor model No. 3WRP6 has 2 tilting tables for mitering applications and quick release belt tension mechanism. Nos. 3WRR2, 42W962 and 42W963 have a belt that operates at any angle and conforms to curves, angles, or circular finishing and grinding operations. Plain and compound miters are obtained using standard aluminum miter gauge.

Powermatic®—Belt head has an indexing pin with stops at 0°, 45°, and 90°, and a head lock that allows use at any angle in between. Cast-iron table has miter gauge slots and positive stops. Integral dual dust port.



No. 3NYA7



No. 3WRR2

HP	Voltage	Amps AC	Disc Dia. (in.)	Disc Speed (rpm)	Belt Size (in.)	Belt SFPM	Disc Table Size (in.)	Table Work Surface (in.)	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Brand	Mfr. Model	Item No.
Bench Belt/Disc Grinders															
¼	120	2.5	6	3600	2 x 27	3240	—	—	1¼	14	15	11	Dayton	—	**49H006**
¾	115/230	7.0/3.5	8	3450	2 x 48	4500	—	2¾ x 4¼	2	25½	20	14	Dayton	—	**3NYA7**
Bench Belt/Disc Sanders															
⅓	115V	6.5	8	1725	1 x 42	3000	4 x 10	6⅛ x 7⅛	1¼	14	22	21	JET	577003	**18F223**
	120	3.5/1.75	6	3500	2 x 42 and 1 x 42	4400	5½ x 8¼	6¾ x 9	1½	23	13	14½	Dayton	—	**6Y945**
½	120	4.3	6	3600	4 x 36	1900	6¼ x 9	6¼ x 9	2½	28	15	17½	Dayton	—	**35GW70**
¾	115	6.5	8	3450	2 x 42	3100	10¾ x 7½	10 x 6	1½	20	22¾	20½	JET	577004	**42W960**
	115	11	9	1725	6 x 48	2258	12 x 7 ½ "	11 x 5½	4	28¾"	31"	16"	JET	708595	**42W970**
1	120	8.0	9	2510	6 x 48	1836	6 x 11½	6 x 10	2	32	21	21	Dayton	—	**35GW71**
Floor Belt/Disc Sanders															
¾	115	12	9	1725	6 x 48	2258	7½" x 12"	5½ x 11	4	28½	29	16	JET	708597K	**25CH40**
1	115	15.0/7.5	10	2100	6 x 48	1650	7½ x 13	6 x 10½	3	61	23	26	JET	414550B	**3WRP6**
	120/240	9/4.5	9	3450	6 x 48	2700	5⅞ x 11¾	5⅞ x 9⅞	2	55	20	27	Dayton	—	**49G990**
1½	115	20/10	12	1960	6 x 48	2850	12 x 16⅜	7⅜ x 14¾	3	58	19	29	JET	414551	**3WRR2**
	115/230	12.6	12	1725	6 x 48	2500	16½ x 10	16½ x 10	4	34½	22	35	JET	708598K	**45PD06**
	120/240	14/7	12	2350	6 x 48	1830	16 x 7	10⅛ x 6	4	55	23	21	Dayton	—	**49G992**
	230	6	12	1960	6 x 48	2850	12 x 16⅜	7⅜ x 14¾	4	58	19	26	JET	414553	**42W963**
	230	10	12	1960	6 x 48	2850	12 x 16⅜	7⅜ x 14¾	1½	58	19	26	JET	414552	**42W962**
2	230/460	7	12	2375	6 x 48	2410	17¼ x 9	13¼ x 7½	4	54½	31¼	24	Powermatic	1791292K	**42W957**

Surface Grinders

- Noncoolant fed
- 220V, 60 Hz
- 3-phase

All units include grinding wheel, auto lube system, wheel adapter/flange, wheel balancing arbor, work light, and diamond dresser.

Manual No. 446P01—One V and one flat way for longitudinal travel for high precision grinding. Provides accurate slot grinding by using saddle locking system. Wire rope movement with double-nut backlash eliminator. Spindle runout accuracy of 0.0001". Working surface is 6" x 18.3".

Automatic Nos. 446P09 to 446P14—Ensure accurate alignment of longitudinal and cross movement with one-piece T-base casting. Provides automatic crossfeed with intermittent and continuous mode.

Automatic Nos. 446P06 to 446P08—Constructed with two V longitudinal ways and two cross V ways, ensuring accurate alignment between working surfaces. Mechanical valve controls the motion of table, minimizing vibration when table reaches on end and reverses back.

Automatic Nos. 446P02, 446P03, and 446P04—Have double V ways for cross travel (one V and one flat for longitudinal travel), providing automatic table and cross feed. Saddle locking system provides accurate slot grinding. Hydraulic system with oil tank prevents table from vibrating. Working surface from 6" x 18.3" to 8" x 20". No. 446P04 has a touch screen NC downfeed control.



No. 446P01

Max. Grinding Length	Max. Grinding Width	Grinding Wheel Dia.	Spindle RPM	Crossfeed Handwheel per Revolution	Crossfeed Table Travel	Longitudinal Table Speed	Longitudinal Table Travel	Overall Length	Overall Width	Mfr. Model	Item No.
Manual											
12⅝"	6¾"	8"	10,000	0.100"	6¾"	196" to 984"/min.	12⅝"	18½"	6 5/16"	SG-618	**446P01**
Automatic											
12⅝"	6¾"	1"	10,000	0.100"	6¾"	196" to 984"/min.	12⅝"	21 45/64"	8 45/64"	SG-820-2A	**446P03**
	6¾"	8"	3600	0.100"	6¾"	196" to 984"/min.	12⅝"	19 45/64"	5 29/32"	SG-618-2A	**446P02**
	6¾"	8"	10,000	0.100"	6¾"	196" to 984"/min.	12⅝"	21 45/64"	8 45/64"	SG-820-2AN	**446P04**
20 15/32"	8⅛"	1"	10,000	0.200"	6¾"	196" to 984"/min.	24⅜"	32"	16"	SH-1632	**446P07**
	8⅛"	14"	10,000	0.200"	6¾"	196" to 984"/min.	18¾"	24"	12"	SH-1224	**446P06**
	8⅛"	14"	10,000	0.200"	11¾"	196" to 984"/min.	18¾"	40"	16"	SH-1640	**446P08**
	11"	14"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	60"	20"	SH-2060	**446P10**
	11"	14"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	47"	24"	SH-2447	**446P11**
	11"	14"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	60"	24"	SH-2460	**446P12**
	11"	14"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	87"	24"	SH-2487	**446P13**
	11"	20"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	80"	47"	SHDC-4780	**446P14**
	11"	1½"	10,000	0.200"	11¾"	196" to 984"/min.	24⅜"	47"	20"	SH-2047	**446P09**

OD Grinders

- Distance between center: 27 -1/2"
- Infeed range: 0 to 10"
- Max. Grinding dia.: 10"
- Max. Load between centers: 180 lb.
- Spindle rpm: 10,000
- 3-phase, 220V, 60 Hz

Can grind up to 12" outside dia. And 24", 40", 60", and 80" length work. Equipped with manual operated wheelhead infeed, and hydraulic table feed. Electronic control workhead can be swivel by 90° for CCW and CW grinding operations. Table travels on cushion of oil with no metal-to-metal contact. Automatic lubrication system with dual oil cover, prevents coolant from entering into workhead.

Nos. 446P15 and 446P6 feature variable speed drive.

No. 446P17 wheelhead feed is manually-operated.

No. 466P18 has auto head infeed.



No. 446P19

Coolant Tank Cap.	Swing	Machine Depth	Machine Width	Machine Height	Includes	Mfr. Model	Item No.
21 gal.	10"	54"	87"	74"	Auto Lube System, Coolant System, Grinding Wheel with Flange, 5" Wheel Flange, Work Head MT #3, Manual Tailstock MT #3, (2) Carbide Tip Center MT #3, Balancing Arbor, Halogen Work Light, Diamond Dresser with Holder, Tool Box	OD-820-SE	**446P15**
	10"	90"	90"	76"	Auto Lube System, Coolant System, Grinding Wheel with Flange, 5" Wheel Flange, Work Head MT #3, Manual Tailstock MT #3, (2) Carbide Tip Center MT #3, Balancing Arbor, Halogen Work Light, Diamond Dresser with Holder, Tool Box	OD-1020-HE	**446P16**
36.8 gal.	10"	89"	119"	80"	Grinding Wheel, 5" Wheel Flange, Wheel Extractor, Infinite Variable Work Head MT #4, Manual Tailstock MT #4, (2) Carbide Tip Center MT #4, Balancing Arbor, Diamond Dresser and Stand, Coolant Tank, Work Light, Tool Box	OD-1324-HE	**446P17**
	10"	89"	119"	80"	Grinding Wheel, 5" Wheel Flange, Wheel Extractor, Infinite Variable Work Head MT #4, Manual Tailstock MT #4, (2) Carbide Tip Center MT #4, Balancing Arbor, Diamond Dresser and Stand, Coolant Tank, Work Light, Tool Box	OD-1324-SE	**446P18**
	15"	89"	206"	80"	Grinding Wheel, 5" Wheel Flange, Wheel Extractor, Infinite Variable Work Head MT #4, Manual Tailstock MT #4, (2) Carbide Tip Center MT #4, Balancing Arbor, Diamond Dresser and Stand, Coolant Tank, Work Light, Tool Box	OD-1380-HE	**446P19**



No. 2RYN9



No. 42W883



No. 53ZC48

Sanders

Disc—Use for deburring, chamfering, grinding, and finishing large workpieces.

Oscillating Spindle—Features 1" oscillating action to reduce friction heat, built-in 2" dust port, and 4 nonskid rubber feet. Tilts to 45°.

Oscillating Belt—For edge, face, bevel, and contour applications. Oscillating feature reduces heat build-up. Quick-release lever and control dial help track and replace belts. Cast-iron table moves up or down.

Drum—Patented conveyor belt TRACKERS™ reduce the need for manual belt adjustments.

HP	Phase	Voltage	Amps AC	Disc Dia. (in.)	Disc Speed (rpm)	Disc Table Size (in.)	Disc Table Tilt-Out Angle (Deg.)	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Brand	Mfr. Model	Item No.
Disc Sanders														
¾	1	120	7.5	12	1720	17¼ x 8⅜	45	2	14⅜	17¼	17	Dayton	—	**2RYN9**
1½	1	115/230	20/10	12	1960	12 x 16⅜	45 Out	4	43	17	29	JET	414602	**3WRP7**
	1	115	—	12	2375	17¼ x 9	45	4	54½	31¼	24	Powermatic	1791291K	**45PD10**
2	1	230	14.0	20	1720	27½ x 14½	45°	1⅝	48	27½	26½	Dayton	—	**2XTG5**
	1	220	15	20	1100	25½ x 14½	45	—	54½	28	30½	Baileigh	DG-500	**31XU84**
3	3	460	—	20	1725	27½ x 10½	—	3	53	28	30	JET	577011	**42W968**

HP	Voltage	Amps AC	Oscillations per Min.	Table Work Surface (in.)	Brand	Mfr. Model	Item No.
Oscillating Spindle Sander							
½	110	7.5	30	14-1/2x14-1/2	JET	708404	**42W883**
Oscillating Belt Edge Sander							
1½	115/230VAC	18/9	108	32 x 7	JET	708447	**42W971**
2	220	—	—	—	Baileigh Industrial	ES-6108	**45AW32**

HP	Voltage	Phase	Disc Dia.	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Mfr. Model	Item No.
Drum Sander									
1½	115	—	—	4	25	22½	39	JWDS-1632	**53ZC48**



No. 445L77



No. 445L78



No.445L79

CNC Router Tables

No. 445L77 comes with software, tooling, and a dust shroud. Built to last with a cast-iron base, the metal router is fully assembled. Ideal for sign makers and molding companies. Upload designs using a USB drive, and move the spindle with the handheld controller. Features ball screw X and Y axis movement for accurate positioning, square slideways for clamping, 4 collets, 15 starter router profiles, air-cooled spindle, and 4 T-slotted clamps to hold material for clean cuts. Nos. 445L78 and 445L79 allow you to automatically change tooling in 8 seconds. Program profile switches right into your design to save time and maintain precision during production runs. Prebuilt tables come with software, air-cooled spindle, and servo motors. High-gantry allows you to see what it's doing. Utilize USB drive with computer-controlled precision. Preload up to 4 collets. Include dust shroud and fully welded steel frame.

HP	Voltage	Phase	Amps	Max. Crosscut	Max. Rip Cut	Features	Includes	Mfr. Model	Item No.
4 19/64	220	1	16.2	24"	24"	Integrated Electrical Panel, Simple Handheld Controller	Dust Cover, Brush, Collet Set, Starter Bits, Material Clamps, BobCAD CAM	WR-32	**445L77**
7½	220	1	35	24"	24"	Simple Handheld Controller, Vacuum Ready Table with T-Slots, Fully Welded Steel Frame	Dust Cover, Brush, Collet Set, Starter Bits, Material Clamps, Duct Collector Hose Support, Vacuum Plumbing, BobCAD CAM	WR-84V	**445L78**
12	220	3	65	24"	24"	Automatic Tool Changing Spindle, Linear Tool Rack, Runs A Program with Up to 6 Different Tools, Without Human Intervention, Fully Welded Rigid Steel Frame	Dust Cover, Brush, Tool Holder Set, Starter Bits, Material Clamps, Vacuum Plumbing, Vacuum Pump, Vacuum Gasket, Coolant Mist System, BobCAD Cam	WR-105V-ATC	**445L79**

Dust Collectors

Not suitable for aluminum or other reactive dust, or for hot metal dust.

Single-Stage Portable—Dayton 115/230V units include PVC inlet hose and clamps. No. 3AA30 has a pick-up nozzle. Nos. 1RWB3 and 3AA28 have bag support assembly and built-in wheels. JET units include quick-connect collection bags and 4 casters. No. 42W940 features Vortex Cone™ to improve chip separation and prevent filter from clogging. Powermatic unit has efficient canister filter and triple 4" dust ports. TurboCone™ feature improves chip separation and prevents filter clogging.

2-Stage Portable—Include 5-ft. wire-reinforced PVC inlet hose and clamps, and 5-micron dust collection bag. Drum not included.

2-Stage Central—Conical blower housing induces a cyclone to effectively separate heavy and light particles; heavier particles drop into the drum and lighter particles are captured in the dust filter bag. Include fiberglass drum lid with hose and clamps, 5 micron dust collection bag, 230V motor starter, and all hardware required for assembly.

5-HP models support 1 drum and 1 dust bag; larger models support 2 drums and 2 dust bags. Drum not included.

Dust Collector for Metal—Uses Replacement Filters No. 42W951, sold below.



No. 3AA24

HP	Voltage	Phase	Amps AC	Max. Flow (CFM)	Operating Range (FPM)	Static Pressure Range (in.)	Hose Dia. (in.)	dBA	Drum Dia. (in.)	Filter Bag (micron)	Brand	Item No.
Single-Stage Portable												
¾	115/230	1	7.5	550	6900	0.93 to 5.8	4	79	—	10	Dayton	**3AA30**
1	115/230	1	11	660	6790 to 7970 ±10%	4 to 8.5	4	65	—	30	Dayton	**1RWB3**
	115/230	1	7 to 3.5	650	6300	6½	4	65 to 70	—	30	JET	**42W941**
1½	115/230	1	16	1100	6900	0.55 to 6.6	4	86	—	30	Dayton	**3AA28**
	115/230	1	11 to 5.5	1100	8464	10½	6	75 to 80	—	2	JET	**42W940**
3	230/460	3	15	1754	5200	11.31	8	75 to 90	—	30	Powermatic	**42W942**
Two-Stage Portable												
¾	115/230	1	7.5	600	5500	1.51 to 7.1	4	79	18 to 19.5	5	Dayton	**3AA31**
1½	115/230	1	16/8	1100	6900	1.47 to 7.3	5	82	22 to 24	5	Dayton	**3AA17**
	230/460	3	4.2/2.1	1100	6900	1.34 to 7.3	5	82	22 to 24	5	Dayton	**3AA18**
2	230/460V	3	5.2	1310	6900	1.64 to 9	6	83	22 a 24	5	Dayton	**3AA21**
Two-Stage Central												
5	230	1	22	2600	9450	1.42 to 12	7	83	22 to 24	5	Dayton	**3AA24**
	230/460	3	14.5	2600	9450	1.76 to 12	7	83	22 to 24	5	Dayton	**3AA25**
7½	230/460	3	18	2900	11,800	2.01 to 13	7	85	22 to 24	5	Dayton	**3AA26**
10	230/460	3	21	3200	13,000	1.91 to 14	7	86	22 to 24	5	Dayton	**3AA29**
Dust Collector For Metal												
1½	115/230V	1	15 to 7.5	490	5610	—	3	75	—	—	JET	**18F218**



No. 18F218

Description	For Use With	Brand	Item No.
Accessories			
Ceiling Mount Air Filtration System, 3-Speed, 1000CFM	—	Jet	**42W822**
Filter Bag, 5 micron, 2 x 6 ft. H	15.5 cu. ft., 1½ HP and Larger Two-Stage Collectors	Dayton	**3AA37**
30 Gal. Collapsible Drum	3AA31	Dayton	**3AA32**
55 Gal. Collapsible Drum	3AA17, 3AA18, 3AA21, 3AA25, 3AA26, 3AA29	Dayton	**3AA33**
Hose Extension Kit, 4" Dia. x 5 Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA34**
Hose Extension Kit, 5" Dia. x 5 Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA35**
Hose Extension Kit, 6" Dia. x 5 Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA36**
Collection Bag, 20" Dia.	Jet Dust Collector	Jet	**42W956**
Air Cleaner Filters, Use With No. 18F218, PK2	18F218	Jet	**42W951**



No. 42W822



No. 45J412

DYNABRADE

Downdraft Tables

For Woodworking—Use for nonmetallic surfaces such as wood, plastics, and fiberglass, with vacuum or nonvacuum tools. Dual filtration system accepts MERV 8 pleated filters. 5" dia. casters. Include prefilter blanket, 2 storage compartments, and 2 dust-tight electrical outlets.

Table Size	Voltage	Phase	Amps AC	Vacuum Suction	Sound Level	Overall Height	Item No.
33" x 41"	115 V	1	13.0Ah	3,000 cfm	72 dB	36 in	**45J414**
	230 V	1	7.0Ah	3,000 cfm	72 dB	36 in	**45J412**
	230 V	3	4.0Ah	3,000 cfm	72 dB	36 in	**45J415**
33" x 60"	230 V	1	7.0A/hr.	3,000 cfm	72 dB	36 in	**45J416**
	230 V	3	4.0A/hr.	3,000 cfm	72 dB	36 in	**45J418**
36" x 60"	115 V	1	13.0Ah	3,000 cfm	72 dB	36 in	**45J419**
36" x 72"	115 V	1	13.0A/hr.	3,000 cfm	72 dB	36 in	**45J423**
	230 V	1	7.0A/hr.	3,000 cfm	72 dB	36 in	**45J421**
	230 V	3	4.0Ah	3,000 cfm	72 dB	36 in	**45J422**
48" x 96"	115 V	1	15.0Ah	7,000 cfm	84 dB	37 in	**45J424**

Ferndale safety WESTWARD

Safety Shields and Enclosures

Westward® Safety Shields—Feature quick cam action and 360° swivel locking shield.

Ferndale—No. 45HE37 is for milling machines and has 3 interlocking safety switches. Fitted to an articulated arm, balanced, and kept in position by a gas spring`with steel pipe and polycarbonate hood. No. 45HE42 is for grinders and includes clutch and easy-to-fit swiveling mounting bracket. Designed with aluminum frame and 130 x 130mm poly-carbonate screen. No. 45HE60 is a polycarbonate safety screen with lathe safety guard that can be tensioned to stay mid-way up. For use with chuck size up to 11" dia.


No. 2MZU9


No. 45HE37

W	L	Thickness	MAGNETIC BASE Item No.	C-CLAMP Item No.
Westward® Safety Shield with 14" Flexible Arm				
6"	8"	⅛"	2MZU5	2MZW7
8"	10"	⅛"	2MZU9	2MZX2
		3⁄16"	2MZV2	2MZX4
10"	12"	⅛"	2MZU1	2MZW3
		3⁄16"	2MZU3	2MZW5
6"	8"	3⁄16"	—	2MZW9

W	L	Thickness	MAGNETIC SWIVEL BASE Item No.
Westward® Safety Shield with 5" Stubby Arm			
6"	8"	⅛"	2MZV6
		3⁄16"	2MZV4
8"	12"	⅛"	2MZW1
		3⁄16"	2MZV8

Description	L	W	Item No.
Ferndale/Repar Guards			
Spindle Guard, Yellow, Includes Arm with 3 Interlock Switches, Mounting Block (Ram), Round Screen	—	—	**45HE37**
Bench Grinder Guard, Yellow, Includes Screen, Swiveling Mounting Bracket	5⅛"	5⅛"	**45HE42**
Lath Chuck Guard, Yellow, Includes Arm Assembly with Interlock Switch, Round Screen	15¾"	9²⁹⁄₆₄"	**45HE60**

Sanding Belt Selection Guide

	Size Range	Application
File Belts	⅛ to 1" W, 12 to 30" L	Light weld removal and blending, shape and contour sanding, surface preparation prior to coating and plating, removing cutting tool marks from molds and dies, general clean-up and finishing
Portable Belts	3 to 4" W, 15½ to 24" L	Grinding and finishing all metals, blending welds, sanding and finishing wood, glass seaming, and polishing
	1 to 10" W, 36 to 132" L	Benchstand and backstand belts, grinding and deburring of all metals, heavy stock removal, blending, dimensioning and shaping, polishing

GRIT SELECTION GUIDE

Grit Size	Application
36 to 50	Stock Removal
60 to 100	Intermediate
120 to 320	Finishing

GRAIN SELECTION GUIDE

Abrasive Grain	Application
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind metals
Zirconia Alumina - Heavy-Duty	High rate of stock removal and long life in demanding applications
Aluminum Oxide - General Purpose	General purpose metalworking applications

TROUBLESHOOTING GUIDE

Problem	Correction
Loading	Decrease infeed pressure or belt spread
Shedding	Reduce applied pressure Use less aggressive contact wheel Dress contact wheel if worn or damaged Use entire surface of belt
Belt Breakage	Reduce belt tension Use less aggressive contact wheel Check tracking mechanism for belts tracking erratically

More sizes and styles available online; for our complete selection go to grainger.com/sandingbelts



R228 Metalite

NORTON SAINT-GOBAIN

General Purpose Sanding Belts

Belt Type	Application	Backing	Abrasive
R215 Metalite	Woodworking	X-weight, cotton	Aluminum Oxide
R228 Metalite	General Purpose Metalworking	X-weight, cotton	Aluminum Oxide
R255 Metalite	Woodworking	X-weight, cotton	Aluminum Oxide
R283 Metalite	General Purpose Metalworking	X-weight, Rayon	Aluminum Oxide

W	L	▶CHOOSE: Grit	Item No.
R215 Metalite			
3"	21"	60	**6A003**
	24"	60	**6A009**
3½"	15½"	36, 60, 80	**J5524**
4"	24"	60	**6A015**
	36"	60	**2D555**
6"	48"	60	**5A997**
	89"	80	**22PE37**
R228 Metalite			
1"	42"	40, 50, 60, 80, 100, 120, 150, 180, 220, 240, 320	**J5535**
2"	48"	36, 40, 50, 60, 80, 100, 120, 150, 180	**J5536**
	60"	320	**22PD90**
	72"	36, 60, 80, 100, 120, 220, 320	**J5543**
2½"	48"	36, 60, 80	**J5537**
	60"	36, 40, 50, 60, 80, 100, 120, 180, 220	**J5541**
3"	132"	80	**22PE19**
4"	36"	150, 180, 320	**J5533**
	54"	50, 60, 80, 100	**J5540**
6"	48"	150, 180, 220, 240, 320	**J5538**
	60"	36, 40, 60, 80	**J5542**
8"	107"	60, 80	**J5522**
R255 Metalite			
3"	18"	50, 80, 120	**J5526**
	21"	40, 50, 80, 100, 120	**J5529**
	24"	36, 40, 50, 80, 100, 120	**J5531**
4"	24"	36, 40, 50, 80, 100, 120	**J5532**
	36"	36, 40, 50, 80, 100, 120	**J5534**
6"	48"	36, 40, 50, 80, 100, 120	**J5539**
R283 Metalite			
¼"	24"	60	**2D593**
⅜"	13"	40, 60, 80, 100, 120	**J5561**
½"	12"	40, 60, 80, 100, 120	**J5523**
	18"	40, 60, 80, 120	**J5525**
	24"	40, 50, 60, 80, 120	**J5530**
¾"	18"	60, 80	**J5527**
	20½"	40, 60, 80, 100, 120	**J5528**
1"	30"	80	**22PD55**

Choose the Right Abrasive for Your Application

General Purpose—The most affordable option uses Aluminum Oxide grit.

Heavy Duty—Zirconia grit provides a faster cut rate and longer life compared to Aluminum Oxide. An excellent combination of quality and price.

High Performance—Ceramic grit provides the best combination of service life and cut rate, for consistent performance over the entire product life. Your best choice for production applications.



R823P BlueFire

NORTON SAINT-GOBAIN

Heavy Duty Sanding Belts

Belt Type	Application	Backing	Abrasive
R821P BlueFire	Better for grinding/deburring stainless steel	Y-weight, cotton	Zirconia Alumina
R823P BlueFire	Better for aluminum, cast iron, bronze, carbon steel - heavy pressure	X-weight, polyester (waterproof)	Zirconia Alumina
R884P BlueFire	Better for wood, aluminum, brass/ bronze - heavy pressure	Y-weight, polyester (waterproof)	Zirconia Alumina

W	L	▶CHOOSE: Grit	Item No.
R821P BlueFire			
1"	42"	40, 50, 60, 80	**J5572**
1½"	60"	36, 50	**J5578**
2"	48"	36, 40, 50, 60, 80	**J5574**
	60"	40, 60, 80	**J5579**
	72"	36, 40, 50, 60, 80	**J5583**
2½"	60"	36, 40, 50, 60, 80	**J5580**
4"	36"	50, 80	**J5570**
6"	48"	36, 40, 50, 60, 80	**J5576**
	60"	40	**22PE34**
R823P BlueFire			
¼"	18"	80	**22PD65**
	24"	60, 120	**J5568**
⅜"	13"	60, 80	**J5562**
½"	12"	60, 80, 120	**J5560**
	18"	60, 80, 120	**J5564**
	24"	60, 80, 100, 120	**J5567**
¾"	18"	60, 80	**J5565**
	20½"	60, 80, 120	**J5566**
1"	30"	60, 80	**J5569**
	42"	60, 80, 100, 120, 180	**J5573**
2"	48"	60, 80, 100, 120, 180, 220	**J5575**
	72"	60, 80, 120, 220	**J5584**
2½"	60"	60, 120	**J5581**
3½"	15½"	80	**22PE40**
4"	36"	60, 80, 100, 120	**J5571**
6"	48"	60, 80, 100, 120	**J5577**
	60"	60, 80	**J5582**
R884P BlueFire			
3"	132"	36, 50	**J5563**



No. 22PD52

NORTON SAINT-GOBAIN 3M

High Performance Sanding Belts

W	L	▶CHOOSE: Grit	Item No.
R980P Blaze, Norton			
¼"	24"	60, 120	**J5556**
⅜"	13"	60	**22PD77**
½"	12"	40, 60, 80	**J5544**
	18"	40, 60, 80, 120	**J5548**
	24"	40, 50, 60, 80	**J5554**
¾"	18"	40, 60, 80	**J5550**
	20½"	40, 60, 80, 120	**J5552**
1"	24"	120	**22PD50**
1½"	60"	40	**22PD81**
2"	48"	60, 80	**J5557**
	60"	36, 40	**J5558**
	72"	36, 40, 50, 60, 80, 120	**J5559**
6"	48"	60	**22PE31**
R981 SG, Norton			
¼"	24"	60	**22PD68**
½"	12"	50, 60, 80	**J5545**
	18"	80, 120	**J5549**
	24"	50, 60, 80, 120	**J5555**
¾"	18"	60, 80	**J5551**
	20½"	50, 60, 80	**J5553**
1"	24"	50	**22PD52**
3½"	15½"	60, 80, 120	**J5547**
947A Cubitron™ II, 3M			
¼"	24"	60, 80, 120	**J6864**
½"	18"	60, 80, 120	**J5487**
	24"	60, 80, 120	**J6864**
¾"	18"	60, 80, 120	**J5489**
	20½"	60, 80, 120	**J6863**
1"	11"	80, 120	**J5484**
	30"	80, 120	**J5491**
	42"	80, 120	**J5492**
2"	60"	60, 80, 120	**J5495**
	72"	60, 80, 120	**J5497**
	132"	60, 80, 120	**J6861**
3"	132"	60, 80, 120	**J6862**
3½"	15½"	60, 80, 120	**J5485**
6"	48"	60, 80, 120	**J5494**

W	L	▶CHOOSE: Grit	Item No.
984F Cubitron™ II, 3M			
¼"	24"	60	**J5490**
½"	12"	80	**30CP12**
	18"	50, 60, 80	**J5486**
	18"	120	**448D46**
	24"	60, 80	**J5490**
	24"	120	**448D47**
¾"	18"	36, 60	**J5488**
1"	11"	60, 80	**J5483**
	24"	50	**J5490**
	42"	60, 80	**J6874**
	132"	36, 60	**J6866**
	137"	36	**448A06**
1½"	60"	60	**448C44**
	90"	36	**448A05**
	132"	36, 80	**J6867**
2"	60"	36, 50, 60, 120	**J6876**
	72"	36, 50, 60, 80, 120	**J5496**
	118"	36	**30CP18**
	132"	36	**30CN86**
	132"	50, 60, 80, 120	**J6868**
2½"	60"	36, 60, 80	**J6877**
3"	132"	36, 50, 60, 80, 120	**J6869**
	137 15/16"	36	**448C10**
3½"	15½"	60, 80	**J6871**
4"	132"	36, 50, 60, 120	**J6870**
5"	132"	36	**448C55**
6"	48"	36, 50, 60, 80, 120	**J6875**
	60"	60	**448C38**
	132"	36	**30CN93**
8"	107"	36	**448C56**
	132"	36	**448A91**
27 9/16"	126"	80, 120	**J6865**
37"	60"	80	**448C53**
	75"	80	**448C52**

W	L	▶CHOOSE: Grit	Item No.
384F, 3M			
2"	132"	36, 60	**J6852**
3"	132"	36, 60, 80	**J6852**
6"	48"	36	**448D04**
37"	60"	150	**448D03**
723D Cubitron™ II, 3M			
½"	42"	220	**448C75**
2"	72"	120	**448C74**
3"	132"	120, 150, 220	**J6853**
784F Cubitron™ II, 3M			
½"	18"	36, 60, 80, 120	**J6855**
	24"	80, 120	**J6857**
	25"	60	**448C80**
¾"	18"	36, 60, 80, 120	**J6856**
1"	132"	50	**448C78**
2"	48"	60, 80	**J6858**
	72"	60, 120	**J6860**
	132"	36	**448C76**
	132"	60	**448C85**
3"	132"	36, 60, 80	**J6854**
6"	48"	60, 80	**J6859**
994F Cubitron™ II, 3M			
4"	132"	36	**448C23**



3M™ Scotch-Brite™
No. J5499

NORTON SAINT-GOBAIN 3M

Surface Conditioning Belts

- Aluminum oxide abrasive

Open construction resists loading. Use Coarse grit for deburring, Medium grit for cleaning and blending, Fine grit for blending, and Very Fine grit for finishing.

W	L	▶CHOOSE: Grade	Item No.
Norton Rapid Prep			
½ in	18 in	Medium, Fine, Very Fine	**J5586**
	24 in	Medium, Fine, Very Fine	**J5590**
¾ in	18 in	Extra Coarse, Medium, Fine, Very Fine	**J5587**
	20 ½ in	Medium, Fine, Very Fine	**J5588**
1 in	42 in	Medium, Fine, Very Fine	**J5794**
2 in	48 in	Medium, Fine, Very Fine	**J5592**
3 ½ in	15 ½ in	Medium, Fine, Very Fine	**J5585**
3 in	21 in	Extra Coarse, Medium, Fine, Very Fine	**J5589**
	24 in	Extra Coarse, Medium, Fine, Very Fine	**J5591**
6 in	48 in	Medium, Fine, Very Fine	**J5593**

W	L	▶CHOOSE: Grade	Item No.
3M™ Scotch-Brite™			
½ in	18 in	Coarse, Medium, Very Fine	**J5499**
	24 in	Coarse, Medium, Very Fine	**J5501**
¾ in	18 in	Coarse, Medium, Very Fine	**J5500**
1 in	42 in	Medium	**6RR58**
2 in	48 in	Medium, Very Fine	**J5503**
	72 in	Medium	**4ZP82**
3 in	10 1/16 in	Medium	**6RT26**
3 ½ in	15 ½ in	Coarse, Medium, Very Fine	**J5498**
3 in	24 in	Medium, Very Fine	**J5502**
6 in	48 in	Coarse, Medium	**J5504**

NORTON SAINT-GOBAIN | GA GRAINGER APPROVED

Sandpaper Sheets

Norton Series/Backing	Abrasive Material	Application
Pro Sand	Premium Aluminum Oxide, Stearate-Coated	Consistent finish on all surfaces and coatings
Multisand; A211 D-Weight, A213 C-Weight	Aluminum Oxide	Wood, metal, plastic, and fiberglass
Adalox; A211 D-Weight, A212 A-Weight, A213 C-Weight	Aluminum Oxide	Hardwood, metal, and composites
No-Fil Adalox; A275 B-Weight	Aluminum Oxide	Dry sanding painted or varnished wood
Garnet; A511 A-Weight, A513 C-Weight	Garnet	Dry sanding of soft or bare wood, and cabinets
No-Fil Durite; A475 B-Weight	Silicon Carbide, Stearate-Coated	Dry sanding primed or painted wood
Tufbak Durite; T402 and T414 A-Weight, T461 C-Weight	Silicon Carbide	Wet sanding between primer coats or other finishes on wood and metal
Flex Metalite; K225 and K225 J-Weight	Aluminum Oxide	Deburring, cleaning, or polishing metal
Emery; K622 J-Weight	Emery	Scouring or polishing nonrated metals and utensils



No. 1KUR4



No. 1KUH6



No. 3XY65

W	L	Grit	PKG. OF 3 Item No.	PKG. OF 20 Item No.
Norton ProSand				
9"	11"	60	**45MY79**	**45MY88**
	11"	80	**45MY78**	**45MY87**
	11"	100	**45MY77**	**45MY86**
	11"	120	**45MY76**	**45MY85**
	11"	150	**45MY75**	**45MY84**
	11"	180	**45MY74**	**45MY83**
	11"	220	**45MY73**	**45MY82**
	11"	320	**45MY72**	**45MY81**
	11"	400	**45MY71**	**45MY80**

W	L	Grit	Series	Color	Item No.	Pkg. Qty.
Norton Multisand A211 and A213						
3⅔"	9"	60	A211	Brown	**1RDT3**	6
	9"	100	A213	Brown	**1RDT2**	6
4½"	5½"	100	A213	Brown	**1RDR6**	6
	5½"	150	A213	Brown	**1RDR5**	6
	11"	60	A211	Brown	**1RDR3**	4
Norton Adalox A211, A212, and A213						
9	11"	36	A211	Brown	**1KUV1**	25
	11"	40	A211	Brown	**1KUV2**	25
	11"	50	A211	Brown	**1KUV3**	50
	11"	80	A211	Brown	**1RDZ3**	25
	11"	80	A211	Brown	**1KUT4**	50
9"	11"	100	A211	Brown	**1RDZ4**	25
	11"	100	A213	Brown	**1RDZ5**	100
	11"	120	A213	Brown	**1KUT5**	100
	11"	150	A213	Brown	**1KUT6**	100
	11"	180	A212	Brown	**1RDZ6**	100
	11"	220	A212	Brown	**1LZK4**	100
Norton Premium No-Fil Adalox A275						
	11"	P80	A275	Brown	**1KUR4**	50
	11"	P100	A275	Brown	**1KUR5**	100
	11"	P120	A275	Brown	**1KUR6**	100
	11"	P150	A275	Brown	**1KUR7**	100
	11"	P180	A275	Brown	**1KUR8**	100
9"	11"	P220	A275	Brown	**1KUR9**	100
	11"	P240	A275	Brown	**1KUT1**	100
	11"	P280	A275	Brown	**1KUT2**	100
	11"	P320	A275	Brown	**1KUT3**	100
	11"	P400	A275	Brown	**1KUP5**	100
	11"	P600	A275	Brown	**1KUP6**	100
Norton Garnet A511 and A513						
	11"	60	A513	Orange	**1LZK5**	50
	11"	80	A513	Orange	**1KUP9**	50
	11"	100	A513	Orange	**1RDZ7**	25
	11"	100	A511	Orange	**1LZK6**	100
9"	11"	120	A511	Orange	**1LZK7**	100
	11"	120	A513	Orange	**1RDZ8**	100
	11"	150	A511	Orange	**1RDZ9**	25
	11"	150	A513	Orange	**1KUR1**	100
	11"	180	A511	Orange	**1KUR2**	100
	11"	220	A511	Orange	**1KUN4**	100
Norton No-Fil Durite A475						
	11"	80	A475	Gray	**11V254**	50
	11"	100	A475	Gray	**11V255**	100
	11"	120	A475	Gray	**11V256**	100
9"	11"	150	A475	Gray	**11V257**	100
	11"	180	A475	Gray	**11V258**	100
	11"	220	A475	Gray	**11V259**	100
	11"	240	A475	Gray	**11V260**	100
	11"	320	A475	Gray	**11V261**	100
Norton Tufbak Durite T402, T414, and T461						
	11"	80	T461	Charcoal	**1KUL5**	50
	11"	100	T461	Charcoal	**1KUL6**	50
	11"	120	T461	Charcoal	**1LYF7**	50
	11"	150	T461	Charcoal	**1KUL7**	50
	11"	180	T461	Charcoal	**1LYF8**	50
	11"	220	T414	Gray	**1LYF9**	50
	11"	240	T414	Gray	**1LZJ5**	50
9"	11"	280	T414	Gray	**1LYG1**	50
	11"	320	T414	Gray	**1KUL8**	50
	11"	360	T414	Gray	**1LZJ6**	50
	11"	400	T414	Gray	**1KUL9**	50
	11"	500	T414	Gray	**1KUN1**	50
	11"	600	T414	Gray	**1KUN2**	50
	11"	1200	T402	Gray	**1KUN3**	50
	11"	P220	T247	Gray	**1REA1**	25

W	L	Grit	Series	Color	Item No.	Pkg. Qty.
Norton Flex Metalite K224 and K225						
	11"	60	K224	Brown	**1REA3**	25
	11"	50	K225	Brown	**1REA2**	25
	11"	80	K225	Brown	**1KUK5**	25
	11"	100	K225	Brown	**1KUK6**	50
	11"	120	K225	Brown	**1KUK7**	50
9"	11"	150	K225	Brown	**1KUK8**	50
	11"	180	K225	Brown	**1KUK9**	50
	11"	220	K225	Brown	**1KUL1**	50
	11"	240	K225	Brown	**1KUL2**	50
	11"	280	K225	Brown	**1KUL3**	50
	11"	320	K225	Brown	**1KUL4**	50
	11"	400	K225	Brown	**1KUH5**	50
Norton Emery K622						
	11"	50	K622	Charcoal	**1KUH6**	25
9"	11"	100	K622	Charcoal	**1KUH7**	50
	11"	150	K622	Charcoal	**1KUH8**	50

W	L	Grit	Backing Material	Backing Weight	Color	Item No.	Pkg. Qty.
GA							
Aluminum Oxide							
	11"	36	Paper	D	Brown	**447T79**	1
	11"	180	Paper	A	Brown	**436A39**	100
	11"	220	Paper	A	Brown	**436A32**	100
	11"	P40	Paper	D	Brown	**436A33**	25
	11"	P60	Paper	C	Brown	**436A27**	50
	11"	P80	Paper	B	Red	**436A31**	50
	11"	P80	Paper	C	Brown	**436A28**	50
	11"	P100	Paper	B	Red	**436A43**	100
	11"	P100	Paper	C	Brown	**436A48**	100
9"	11"	P120	Paper	B	Red	**436A41**	100
	11"	P120	Paper	C	Brown	**436A36**	100
	11"	P150	Paper	B	Red	**436A53**	100
	11"	P150	Paper	C	Brown	**436A52**	100
	11"	P180	Paper	B	Red	**436A56**	100
	11"	P220	Paper	B	Red	**436A44**	100
	11"	P240	Paper	B	Red	**436A57**	100
	11"	P320	Paper	B	Red	**436A34**	100
	11"	P400	Paper	B	Red	**436A42**	100
	11"	P600	Paper	B	Red	**436A38**	100
Emery							
9"	11"	100	Cloth	J	Black	**447T83**	50
	11"	150	Cloth	J	Black	**447T84**	50
Garnet							
	11"	50	Paper	D	Orange	**447T80**	1
	11"	60	Paper	C	Orange	**436A35**	50
	11"	80	Paper	A	Orange	**447T81**	1
	11"	80	Paper	C	Orange	**436A37**	50
	11"	100	Paper	A	Orange	**436A46**	100
9"	11"	120	Paper	A	Orange	**436A29**	100
	11"	120	Paper	C	Orange	**436A58**	100
	11"	150	Paper	A	Orange	**447T82**	1
	11"	150	Paper	C	Orange	**436A65**	100
	11"	180	Paper	A	Orange	**436A61**	100
	11"	220	Paper	A	Orange	**436A54**	100
Silicon Carbide							
	11"	80	Waterproof Paper	C	Black	**436A50**	50
	11"	100	Waterproof Paper	C	Black	**436A45**	50
	11"	120	Waterproof Paper	C	Black	**436A30**	50
	11"	150	Waterproof Paper	C	Black	**436A55**	50
9"	11"	180	Waterproof Paper	C	Black	**436A47**	50
	11"	P100	Paper	B	White	**436A60**	100
	11"	P120	Paper	B	White	**436A62**	100
	11"	P150	Paper	B	White	**436A59**	100
	11"	P180	Paper	B	White	**436A64**	100
	11"	P220	Paper	B	White	**436A49**	100
	11"	P240	Paper	B	White	**436A63**	100
	11"	P320	Paper	B	White	**436A51**	100

Description	W	L	Grit	Includes	Item No.
Norton Assortment Packs					
Multisand	3⅔"	9"	Assorted	(1) Sheet 60 Grit 1RDT3, (2) Sheets 100 Grit 1RDT2, (3) Sheets 150 Grit 1RDT1	**1RDT4**
Multisand	9"	11"	60 to 220	(6) Sheets 60 Grit, 100 Grit, 150 Grit and (7) Sheets 220 Grit	**3XY65**
4⅞" L x 2 1⁵⁄₁₆" W, Rubber For Wet or Dry Sanding, Uses ⅓ Sheets 9 x 11"					**1RDT5**

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Scotch-Brite™ NORTON SAINT-GOBAIN
GA GRAINGER APPROVED 3M

Abrasive Hand Pads

All pads can be cut to size for specific applications; No. 5XB78 is perforated to let you create smaller 4½" x 6" pads.



Aluminum Oxide
No. 4ZR11



No. 4ZT08

Abrasive Material	Grade	Color	Series	Function	W	L	Brand	Item No.
Aluminum Silicate	Super Fine	White	7445	Mild abrasive for Cleaning	6"	9"	Scotch-Brite	3WB48
Aluminum Oxide	Very Fine	Green	696	For hand cleaning and scouring, light cleaning of metal surfaces and removal of light surface oxidation, stains, and marks.	6"	9"	Norton	4VB29
	Very Fine	Maroon	747	Cleaning, Finishing, Deburring, Rust Removal; Defuzzing wood, Preparing surfaces for painting	6"	9"	Norton	4LL48
	Very Fine	Maroon	777	Fast initial cut rate, Cleaning, Deburring, Crrosion removal, Oxidation removal	6"	9"	Norton	4LL50
	Very Fine	Maroon	847	Cleaning, Finishing, Deburring, Rust removal, Defuzzing wood, Preparing surfaces for painting	6"	9"	Norton	5XB78
	Very Fine	Maroon	7447	Cleaning, Finishing; Deburring, Rust removal, Defuzzing wood, Preparing surfaces for painting	6"	9"	Scotch-Brite	4ZR10
	Very Fine	Maroon	7447B	Blending, Cleaning, Contour Finishing, Deburring, Finishing	6"	9"	Scotch-Brite	4ZR18
	Very Fine	Maroon	—	Blending/Deburring, Finishing/Polishing	6"	9"	GA	435Y55
	Very Fine	Green	—		6"	9"	GA	435Y56
	Very Fine	Maroon	Thin Flex	Extremely thin and conformable for cleaning, blending, finishing,and deburring contoured surfaces and tight spaces	4½"	9"	Norton	49U885
	Medium	Brown	740	Removing Rust and Oxidation, Deburring, Blending	6"	9"	Norton	4LL46
	Medium	Tan	7440		6"	9"	Scotch-Brite	4ZR11
	Medium	Dark Tan	—	Blending/Deburring, Finishing/Polishing	6"	9"	GA	435Y54
Silicon Carbide	Ultra Fine	Gray	635	Deburring plastic surfaces; cleaning fiberglass partitions, Blending paint, Scuffing acrylic surfaces, Finishing	6"	9"	Norton	4LL45
	Ultra Fine	Gray	748	Light cleaning of steel and nonsteel, Defuzzing wood, Final rub	6"	9"	Norton	4LL49
	Ultra Fine	Gray	—	Blending/Deburring, Finishing/Polishing	6"	9"	GA	435Y58
	Very Fine	Gray	851	Removing rust and oxidation, Blending around welds, Cleaning glass molds, Satin Finishing	6"	9"	Norton	4LL52
	Medium	Gray	746	Cleaning aluminum, around welds, glass molds, and dies, Light Deburring	6"	9"	Norton	4LL47
	Medium	Gray	7446	Cleaning aluminum, around welds, glass molds, and dies; light deburring of intricate parts	6"	9"	Scotch-Brite	4ZR12
Non-Abrasive	Super Fine	White	456	Nonabrasive for cleaning glass, fiberglass, and porcelain fixtures;wood highlighting and rubbing between finish	6"	9"	Norton	4LL44
	—	Off White	—	Blending/Deburring, Finishing/Polishing	6"	9"	GA	435Y57

Item	Description	Brand	Mfr. Model	Item No.
Abrasive Hand Pad Set	Includes: Scrubbing Sponge (74), Lt.-Duty Pad (6448), Hvy.-Duty Pad (7440), Lt.-Duty Cleansing Pad (7445), Blending Pad (7446), General Purpose Pad (7447), Ultrafine Pad (7448), Production Pad (8447), and Twist Lok Pad Holder (961)	Scotch-Brite	961S	4ZT08
Hand Sanding Block	For Use with 4 x 6" Roll Material and Hand Pads	3M	952	4ZR06
Mini Mandrel	¼" Shank; 2⅞" Length	3M	935	4ZR08

Non-Woven Abrasive Rolls

Scotch-Brite™

An economical alternative to pre-cut pads for effectively hand cleaning male and female threading, and inside of cylinders; cut to size and use only what you need. The flexible, nonloading, nonrusting material conforms to work surfaces for light- to heavy-duty cleaning, deburring, blending, polishing, and finishing. Use on metal, wood, composite, plastics, stone, solid surfaces, and painted surfaces.

Abrasive	Grade	Series	Color	L	W	Mfr. Model	Item No.
Cleaning and Finishing Rolls							
Talc	—	CF-RL	White	30 ft.	4"	CF-RL	4ZP76
—	Fine	CF-RL	Maroon	30 ft.	4"	CF-RL	2BAP4
Aluminum Silicate	Super Fine	CF-RL	White	30 ft.	4"	CF-RL	4ZP77
Silicon Carbide	Super Fine	CF-RL	Gray	30 ft.	4"	CF-RL	4ZP79
	Very Fine	CF-RL	Gray	30 ft.	4"	CF-RL	4ZP80
Aluminum Oxide	Very Fine	CF-RL	Maroon	30 ft.	2"	CF-RL	4ZP75
	Very Fine	CF-RL	Maroon	30 ft.	4"	CF-RL	4ZP78
	Very Fine	CF-RL	Maroon	30 ft.	6"	CF-RL	4ZP81
Cutting and Polishing Rolls							
Aluminum Oxide	Medium	CP-RL	Tan	30 ft.	2"	CP-RL	4ZR29
	Medium	CP-RL	Tan	30 ft.	4"	CP-RL	4ZR30
Polishing Roll							
—	—	CF-RL	White	30 ft.	8"	61500021243	4YHX5
	—	SP-RL	White	30 ft.	4"	SP-RL	2JEK9



No. 4ZR30

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready





No. 2D724



No. 3UN31

NORTON SAINT-GOBAIN MERIT we know abrasives GA GRAINGER APPROVED

Abrasive Rolls

Rolls can be torn to exact lengths as needed, eliminating waste.

Cloth Rolls—For polishing lathe turnings, rolls, and cylinders; light deburring; blending machine tool marks; removing rust and scale; fine sanding and polishing.

Paper Rolls—For preparing primed and painted surfaces; sanding plastic and fiberglass; and bare wood sanding.

W	L	Grit	Brand	Item No.
Cloth Rolls				
Metalite K225				
1"	150 ft.	50	Norton	**2D727**
	150 ft.	60	Norton	**2D726**
	150 ft.	80	Norton	**2D725**
	150 ft.	100	Norton	**2D724**
	150 ft.	120	Norton	**2D723**
	150 ft.	150	Norton	**2D722**
	150 ft.	180	Norton	**2D721**
	150 ft.	220	Norton	**1LZK9**
	150 ft.	280	Norton	**1LZL1**
	150 ft.	320	Norton	**2D719**
	150 ft.	400	Norton	**2D718**
1½"	150 ft.	50	Norton	**2D738**
	150 ft.	60	Norton	**2D737**
	150 ft.	80	Norton	**2D736**
	150 ft.	100	Norton	**2D735**
	150 ft.	120	Norton	**2D734**
	150 ft.	150	Norton	**2D733**
	150 ft.	180	Norton	**2D732**
	150 ft.	220	Norton	**1LZL2**
	150 ft.	240	Norton	**2D731**
	150 ft.	280	Norton	**1LZL3**
	150 ft.	320	Norton	**2D730**
	150 ft.	400	Norton	**2D729**
	150 ft.	600	Norton	**2D728**
2"	150 ft.	50	Norton	**2D748**
	150 ft.	60	Norton	**2D747**
	150 ft.	80	Norton	**2D746**
	150 ft.	100	Norton	**2D745**
	150 ft.	120	Norton	**2D744**
	150 ft.	150	Norton	**2D743**
	150 ft.	180	Norton	**2D742**
	150 ft.	220	Norton	**2D741**
	150 ft.	240	Norton	**2D740**
	150 ft.	280	Norton	**1LZL4**
	150 ft.	320	Norton	**2D739**
	150 ft.	400	Norton	**3XF01**
K225				
1"	150 ft.	80	Merit	**3DV24**
	150 ft.	120	Merit	**3DV25**
	150 ft.	180	Merit	**3DV26**
	150 ft.	240	Merit	**3DV27**
	150 ft.	320	Merit	**3DV28**
2"	150 ft.	80	Merit	**3DV29**
	150 ft.	120	Merit	**3DV30**
	150 ft.	180	Merit	**3DV31**
	150 ft.	240	Merit	**3DV32**
	150 ft.	320	Merit	**3DV33**
GA				
1"	150 ft.	P60	GA	**435Y50**
	150 ft.	P80	GA	**435Y29**
	150 ft.	P100	GA	**435Y43**
	150 ft.	P120	GA	**435Y26**
	150 ft.	P150	GA	**435Y49**
	150 ft.	P180	GA	**435Y34**
	150 ft.	P220	GA	**435Y41**
	150 ft.	P240	GA	**435Y33**
	150 ft.	P280	GA	**435Y53**
	150 ft.	P320	GA	**435Y37**
	150 ft.	P400	GA	**435Y38**
1½"	150 ft.	40	GA	**447R20**
	150 ft.	80	GA	**447R19**
	150 ft.	600	GA	**447R21**
	150 ft.	P60	GA	**435Y48**
	150 ft.	P80	GA	**435Y30**
	150 ft.	P100	GA	**435Y42**
	150 ft.	P120	GA	**435Y22**
	150 ft.	P150	GA	**435Y46**
	150 ft.	P180	GA	**435Y28**
	150 ft.	P220	GA	**435Y39**
	150 ft.	P240	GA	**435Y36**
	150 ft.	P320	GA	**435Y40**
	150 ft.	P400	GA	**435Y35**
2"	150 ft.	P60	GA	**435Y45**
	150 ft.	P80	GA	**435Y23**
	150 ft.	P100	GA	**435Y44**
	150 ft.	P120	GA	**435Y21**
	150 ft.	P150	GA	**435Y47**
	150 ft.	P180	GA	**435Y25**
	150 ft.	P220	GA	**435Y31**
	150 ft.	P240	GA	**435Y27**
	150 ft.	P280	GA	**435Y52**
	150 ft.	P320	GA	**435Y24**
	150 ft.	P400	GA	**435Y32**
2¾"	45 yd.	400	GA	**447R17**
Paper Rolls				
GA				
2¾"	25 yd.	80	GA	**447R09**
	30 ft.	100	GA	**447R10**
	30 yd.	120	GA	**447R11**
	45 yd.	150	GA	**447R12**
	45 yd.	180	GA	**447R13**
	45 yd.	220	GA	**447R14**
	45 yd.	240	GA	**447R15**
	45 yd.	320	GA	**447R16**
No-Fil Adalox A275 PSA				
2¾"	75 ft.	80	Norton	**4MAA9**
	90 ft.	100	Norton	**4MAA8**
	135 ft.	150	Norton	**4MAA7**
	135 ft.	220	Norton	**4MAA6**
	135 ft.	320	Norton	**4MAA5**
4½"	30 ft.	80	Norton	**3UN31**
	30 ft.	120	Norton	**3UN30**
	30 ft.	150	Norton	**3UN29**
	30 ft.	180	Norton	**3UN28**
	30 ft.	220	Norton	**3UN27**



3M

Abrasive Cloth Roll Kit

Kit comes with 24-ft. L premium aluminum oxide abrasive sheets in 5 different grits; cut or tear off to the length that you need to help eliminate waste. The strong bonding system allows the sheets to be torn and rolled without shelling. An excellent choice for all your utility sanding and general maintenance work, including blending, finishing, and cleaning applications.

Abrasive Material	W	Grit	Item No.
Aluminum Oxide	1"	60, 80, 120, 180, 240	**4YJY2**



No. 1KUH9



No. 4F880

NORTON SAINT-GOBAIN

Open-Mesh Abrasive Rolls and Sheets

In applications where life and load resistance are the most-important factors, the open mesh screen on these silicon carbide sheets resists loading for fast, easy, and efficient sanding. Use for sanding plastic piping prior to gluing; preparing copper pipe and fittings prior to soldering; and sanding softer materials where loading is a problem, such as plaster, wood, drywall, brass, etc.

Description	W	L	Grade	Grit	Item No.	Pkg. Qty.
Screen-Bak Durite Q421 Sheets	9 in	11 in	Very Fine	320	**1KUK4**	25
			Very Fine	220	**1KUK3**	25
			Very Fine	180	**1KUH9**	25
			Fine	150	**1KUK2**	25
			Medium	100	**1KUK1**	25
Screen-Bak Durite Q421 Rolls	1 ½ in	75 ft	Very Fine	180	**4F882**	1
			Fine	120	**4F881**	1
			Medium	80	**4F880**	1

Diamond Hand Pads

NORTON SAINT-GOBAIN

Color-coded hand pads combine the durability and aggressiveness of diamond on a high-strength, flexible backing. Single-sided; conform to shapes and contours. Well-suited for quick finishing of ceramic tile to get a smooth edge before grouting. Can be used on many other surfaces to smooth edge chips, reface edges, or polish dies and molds. No. 1RDJ5 is an assortment that contains 1 of each type of pad.

Grade	Grit	Color	L	W	Mfr. Model	Item No.
Hand Pads						
Ultra Fine	800	White	3 ½ in	2 ⅛ in	66260306363	**1RDJ3**
Ultra Fine	1,500	Blue	3 ½ in	2 ⅛ in	66260306364	**1RDJ4**
Super Fine	400	Yellow	3 ½ in	2 ⅛ in	66260305852	**1RDJ2**
Fine	120	Black	3 ½ in	2 ⅛ in	66260306361	**1RDH9**
Fine	200	Red	3 ½ in	2 ⅛ in	66260306362	**1RDJ1**
Medium	60	Green	3 ½ in	2 ⅛ in	66260306360	**1RDH8**
Assortment						
Medium to Ultra Fine	60, 120, 200, 400, 800, 1,800	Assorted	3 ½ in	2 ⅛ in	66260307720	**1RDJ5**



Assortment Pack
No. 1RDJ5

Abrasive Sponges

NORTON SAINT-GOBAIN 3M

Durable coated foam lasts up to 5 times longer than sandpaper and resists tearing. Can be used wet or dry, and can be washed and reused multiple times.

General Purpose—Small, flexible sponges are coated on 2 sides and can be used on most materials. Silicon carbide abrasive.

Sealer Sanding—Designed for hand sanding primers and sealers between coats on furniture and cabinets. Premium silicon carbide abrasive. Coated on 2 sides.

Profile—Designed for flat surfaces and corners on metal, wood, plastic, or paint. Aluminum oxide abrasive. Coated on 3 sides.

Small Area—The ultra sharp aluminum oxide grain offers faster cut and longer life for small area paint and drywall repair. Coated on 2 sides.

Dual-Angle and Angled—Extra-firm sponges are coated with aluminum oxide abrasive on 4 sides for sanding inside corners and crevices of drywall compound.

Contour—Thin, flexible sponges are designed for small diameter objects with contours such as ceramics, spindles, turnings, and railings. Aluminum oxide abrasive. Coated on 1 side.

Soft Touch—Superior flexibility for hand sanding or finishing flat, curved, contoured, and hard-to-reach areas. Aluminum oxide abrasive. Coated on 1 side.

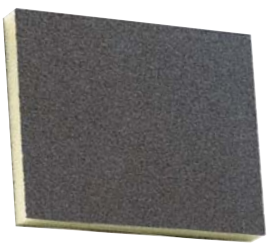
Corner Drywall—2 sides have aluminum oxide abrasive, providing dual sanding action for near-perfect inside corners on drywall. Extra-firm sponges are designed for sanding drywall corners, but can also be used on a variety of other materials.

Softback—Coated on one side with an aluminum oxide grit that is excellent for automotive applications, this flexible sponge is effective for hard-to-reach areas like headlight openings and door jambs. The soft foam backing allows comfortable hand sanding.

Description	L	W	Thickness	Grit	Grade	Mfr. Model	Item No.	Pkg. Qty.
Norton								
General Purpose	4 in	2 ¾ in	1 in	36/80	Extra Coarse/Medium	07660749503	**1RDV8**	1
	4 in	2 ¾ in	1 in	80/120	Medium/Fine	07660749502	**1RDW1**	1
Sealer Sanding	4 ¾ in	3 ¾ in	½ in	80	Medium	63642502538	**2KNA7**	1
	4 ¾ in	3 ¾ in	½ in	100	Fine	63642552870	**3WK98**	1
	4 ¾ in	3 ¾ in	½ in	150	Fine	63642552869	**3WK97**	1
	4 ¾ in	3 ¾ in	½ in	220	Very Fine	63642552868	**3WK96**	1
Profile	4 in	2 ¾ in	½ in	100	Fine	63642536313	**2KNA9**	1
Small Area	4 ½ in	2 $^{11}/_{16}$ in	1 in	60	Medium	07660782071	**45GF45**	1
	4 ½ in	2 $^{11}/_{16}$ in	1 in	180	Very Fine	07660782073	**45GF46**	1
Dual-Angle	4 ⅞ in	2 ⅞ in	1 in	—	Coarse/Medium	07660700936	**1PW28**	1
	4 ⅞ in	2 ⅞ in	1 in	—	Medium/Fine	07660700935	**1PW27**	1
Angled	4 ⅞ in	2 ⅞ in	1 in	150/180	Fine	07660702284	**33GN50**	24
	4 ⅞ in	2 ⅞ in	1 in	100/120	Medium	07660702285	**33GN51**	24
Contour	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Fine	07660700938	**2DZY1**	2
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Medium	07660700939	**2DZY2**	2
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Very Fine	07660700937	**2DZY3**	2
Soft Touch	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Medium	07660703074	**1RDW7**	20
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	100	Fine	07660703075	**1RDW8**	20
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Super Fine	07660703076	**1RDW9**	20
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Ultra Fine	07660703077	**1RDX1**	20
	5 ½ in	4 ½ in	$^{3}/_{16}$ in	—	Very Fine	07660703078	**1RDX2**	20
Corner Drywall	7 in	4 ½ in	3 ¾ in	—	Medium	07660701715	**1PW39**	1
3M								
Softback	5 ½ in	4 ½ in	¼ in	500/600	Super Fine	02602	**2BAE1**	120



General Purpose
No. 1RDV8



Sealer Sanding
No. 3WK97



Angled
No. 33GN50



Soft Touch
No. 1RDW8



Corner Drywall
No. 1PW39

Foam Sanding Pads

NORTON SAINT-GOBAIN

- A275 aluminum oxide grain with No-Fil® coating
- 4½"W x 82'L roll
- 178 (5½"L) sheets per roll

Water-resistant sheets are excellent for fine sanding water-based primers, topcoats, wood, metal and composite, especially on rounded edges, contours, and curves. Can be used moist to provide a uniform finish that minimizes scratching.

Grit	Mfr. Model	Item No.
120	63642535316	**12Z220**
150	63642557584	**12Z221**
180	63642557599	**12Z222**
220	63642557600	**12Z223**
240	63642557602	**12Z224**
320	63642557606	**12Z226**
400	63642557608	**12Z227**
500	63642557611	**12Z228**
600	63642557612	**12Z229**
800	63642557613	**12Z230**
1000	63642557616	**12Z231**



Sanding Disc Specifications

Series	Application	Backing	Abrasive
Norton A275	Faster cut rate than standard discs. Flexible backing. Available with vacuum holes to pull swarf away from the point of grind.	B-weight, latex	Aluminum Oxide
Norton A290	Provides consistent finish for dry sanding applications.	C-weight, paper	Aluminum Oxide
Norton A475	Ideal for use between sealer coats and for hard-to-sand surfaces.	B-weight	Silicon Carbide
Norton A975	For stripping and sanding paint, primers, bare wood, metal, and fiberglass.	C-weight for 80 to 120 grit B-weight for 150 and higher grit	Ceramic Alumina
Norton H875	For soft material applications, fiberglass, and composites.	E-weight, paper	Zirconia Alumina
Norton Multi-Air® Cyclonic™	Provide maximum dust extraction for virtually dust-free sanding. Flat, laser-cut holes maximize cut rate and disc life.	Fiber-reinforced latex/paper	Ceramic Alumina
ARC Abrasives Inc® PREDATOR®	Premium blend of proprietary grains and grinding aid for high performance with a fast cut and long life. Ideal for mild steel and carbon steel.	Y-weight, cloth	Ceramic
CUBITRON™ II	Precision shaped ceramic grain for faster cuts and long life. Ideal for stock removal on a wide variety of substrates.	C-weight, paper	Ceramic

PSA Paper Disc Rolls

NORTON SAINT-GOBAIN

Pressure Sensitive Adhesive (PSA) backing enables quick disc changes. Stearate coating reduces disc loading. For use on random orbital and rotary sanders. Use for all-purpose dry sanding and finishing applications. Use with PSA back-up pads, sold separately; search for "PSA Back Up Pads" on Grainger.com®.



Non-Vacuum
No. H5933

Vacuum Hole Design	Series	▶CHOOSE: Grit	Discs per Roll	Item No.
5" Disc Dia.				
5 Hole	A275	80, 100, 120, 150, 180, 220, 240, 320, 400, 500	100	**H5931**
		80, 100, 120, 150, 180, 220, 320, 400, 500	100	**H5930**
Non-Vacuum	A290	60, 80, 100, 120, 150, 180, 220, 240, 280, 320	100	**H5932**
	A475	80, 100, 120, 150, 180, 220	100	**H5933**
	A975	220, 320, 400	100	**H5934**
6" Disc Dia.				
6 Hole	A275	80, 100, 120, 150, 180, 220, 280, 320, 600	100	**H5936**
		80, 100, 120, 150, 180, 220, 240, 280, 320, 400, 500	100	**H5935**
Non-Vacuum	A290	60, 80, 100, 120, 150, 180, 220, 240, 280, 320	100	**H5937**
	A475	80, 120, 180, 220	100	**H5938**
	A975	180, 320	100	**H5939**



ARC
No. J1056

GA GRAINGER APPROVED NORTON SAINT-GOBAIN 3M

Hook-and-Loop Sanding Discs

Hook-and-loop backing makes discs reusable and enables quick disc changes. Stearate coating reduces disc loading. Designed for use on random orbital and rotary sanders. Use for preparing primed and painted surfaces for finishing; stripping primer and paint; sanding plastic, fiberglass, and bare wood; light weld blending and deburring; and finishing all types of metal. Use with hook-and-loop back-up pads, sold separately; search for "Hook-and-Loop Back Up Pads" on Grainger.com®.



6-Hole
No. H5925

Vacuum Hole Design	Series	▶CHOOSE: Grit	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
2" Disc Dia.						
Non-Vacuum	GA	180	Blue	GA	**447R78**	1
3" Disc Dia.						
Non-Vacuum	GA	80, 180	Maroon, Blue	GA	**J6885**	1
4" Disc Dia.						
Non-Vacuum	GA	40, 80	Brown, Maroon	GA	**J6886**	1
4½" Disc Dia.						
Non-Vacuum	GA	40, 80, 180	Brown, Maroon, Blue	GA	**J6887**	1
5" Disc Dia.						
5 Hole	A275 Paper Discs	80, 100, 120, 150, 180, 220, 240, 320, 400, 600	Champagne	Norton	**H5916**	100
	A975 Paper Discs	40, 80, 100, 150, 180, 220, 320	Blue	Norton	**H5918**	10
	GA	80	Yellow	GA	**J6880**	50
		100, 150, 180, 320, 400, 600	Red	GA	**J6879**	100
		220	Yellow	GA	**J6880**	100
8 Hole	A290 Paper Discs	100, 150, 180, 220, 320	Gold	Norton	**J4972**	50
Multi-Hole	A975 Paper Discs	60, 120	Blue	Norton	**H5918**	10
	Multi-Air Cyclonic Paper Discs	240, 280, 600, 800, 1000	Blue	Norton	**J2759**	50
Non-Vacuum	A275 Paper Discs	80, 100, 120, 150, 180, 220, 240, 320, 400, 500	Champagne	Norton	**H5915**	100
		—	Champagne	Norton	**4MAA2**	100
	A290 Paper Discs	80, 100, 120, 150, 180, 220, 320, 400	Yellow	Norton	**H5917**	100
	A975 Paper Discs	80, 100, 120, 150, 180	Blue	Norton	**H5920**	50
	H875 Paper Discs	40, 80	Blue	Norton	**H5921**	25
	732U Paper Discs	80, 120	Purple	3M	**J2750**	50
	GA	40, 80, 220	Brown, Maroon, Blue	GA	**J6888**	1
		80, 320	Yellow	GA	**J6883**	100
		100, 120, 220, 400	Beige	GA	**J6882**	100
6" Disc Dia.						
6 Hole	A275 Paper Discs	80, 100, 120, 150, 180, 220, 320, 400, 600	Champagne	Norton	**H5925**	100
	732U Paper Discs	80, 120	Purple	3M	**J2752**	50
	GA	80, 100, 120, 150, 180, 220, 400, 600	Beige, Red	GA	**J6881**	100
Multi-Hole	Multi-Air Cyclonic Paper Discs	80, 120	Blue	Norton	**J2761**	50
		150, 180, 220, 240, 280, 320, 400, 800, 1000	Blue	Norton	**J2760**	50
	732U Paper Discs	80, 120	Purple	3M	**J2754**	50
Non-Vacuum	A275 Paper Discs	80, 100, 120, 150, 180, 220, 240, 280, 320, 400	Champagne	Norton	**H5924**	100
	A290 Paper Discs	80, 100, 120, 150, 180, 220, 320, 400	Yellow	Norton	**H5926**	100
	A975 Paper Discs	80, 120, 180	Blue	Norton	**H5927**	50
	GA	80, 120, 220, 240	Beige	GA	**J6884**	100
		320	Yellow	GA	**436A25**	100
7" Disc Dia.						
Non-Vacuum	GA	80	Maroon	GA	**447R77**	1

ARC ABRASIVES INC GA GRAINGER APPROVED NORTON SAINT-GOBAIN

PSA Cloth Discs

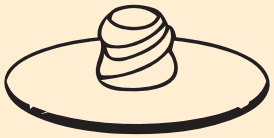
For maintenance and repair applications, from medium grinding to light deburring and finishing. Pressure-sensitive adhesive (PSA) offers fast, convenient disc mounting. Discs are made without center holes for full-face usage.

8" discs and smaller are designed for use on orbital sanders or vertical shaft grinders and must be used with PSA back-up pads, sold separately; search for "PSA Back-Up Pads" on Grainger.com®. Discs 9" and larger are designed for use on stationary disc sanders.

Disc Diameter	▶CHOOSE: Grit	Brand	Item No.
Aluminum Oxide			
AO Series			
2"	40, 50, 60, 80, 100, 120, 180, 240	ARC Abrasives	**J1056**
3"		ARC Abrasives	**J1059**
5"	36, 40, 50, 60, 80, 100, 120, 150, 180	ARC Abrasives	**J1061**
6"	36, 40, 50, 60, 80, 100, 120, 180	ARC Abrasives	**J1062**
8"		ARC Abrasives	**J1063**
9"	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1064**
10"		ARC Abrasives	**J1051**
12"	36, 40, 50, 60, 80, 100, 120, 180	ARC Abrasives	**J1052**
15"	36, 40, 50, 60, 80, 120	ARC Abrasives	**J1053**
16"	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1054**
18"	36, 40, 50, 60, 80, 100	ARC Abrasives	**J1055**
20"	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1057**
24"		ARC Abrasives	**J1058**
30"	40, 50, 60, 80, 120	ARC Abrasives	**J1060**
GA			
1"	100	GA	**447R27**
5"	36, 40, 60, 80, 100, 120, 150, 180, 240, 400	GA	**J6891**
6"	100, 150, 180, 280, 320, 400	GA	**J6893**
9"	80	GA	**447R25**
12"	36, 40, 50, 60, 80, 120	GA	**J6890**
Metalite R228			
5"	36, 40, 50, 60, 80, 100, 120, 150, 180	Norton	**J1125**
6"	60, 80, 100, 120, 180	Norton	**J1126**
8"	36, 40, 50, 60, 80, 100, 120	Norton	**J1127**
9"	60, 100, 150	Norton	**J1128**
10"	36, 40, 50, 60, 80	Norton	**J1120**
12"	36, 50, 60, 80, 120	Norton	**J1121**
Zirconia Alumina			
Norzon Plus R821			
10"	40, 60, 80	Norton	**J1134**
12"	36, 50, 80	Norton	**J1135**
ZircAlO Series			
5"	36, 40, 50, 60, 80, 120	ARC Abrasives	**J1069**
12"		ARC Abrasives	**J1065**
16"	36, 40, 50, 60, 80	ARC Abrasives	**J1066**
20"		ARC Abrasives	**J1067**
24"	36	ARC Abrasives	**J1068**

Find Back-Up Pads on page 2374.

Quick Change Disc Specifications



TR (Type 3)
Roll-On/Off



TS/TSM (Type 2)
Turn-On/Off



TP (Type 1)
Snap-On/Off

QUICK CHANGE ATTACHING SYSTEMS

TR (Type 3)	TS (Type 2)	TP (Type 1)
Features a roll-on/roll-off style fastener	Features a turn-on/turn-off syle fastener	Features a snap-on/snap-off style fastener
Fastener is made of plastic	Fastener is made of metal	Fastener is made of nylon

GRIT GUIDE

Coarser for Grinding										Finer for Finishing	
24	36	40	50	60	80	100	120	150	180	240	320
Heavy Stock Removal											
	Medium Stock Removal										
	Edge Chamfering/Beveling										
		Weld Removal									
			Heavy Deburring								
				Blending							
					Light Deburring						
							Cleaning				
								Finishing			

GRAIN SELECTION

Abrasive Grain Type	Application
Aluminum Oxide - General Purpose	General purpose metalworking applications
Zirconia Alumina - Heavy Duty	High rate of stock removal and long life in demanding applications
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind materials

NORTON SAINT-GOBAIN | MERIT we know abrasives | 3M | ARC ABRASIVES INC | ★GA GRAINGER APPROVED

General Purpose Quick-Change Cloth Discs

- **Aluminum oxide abrasive**

Quick-change attachment system helps minimize downtime and improve productivity.

Note: More sizes and styles are available; to see Grainger's full assortment of quick-change discs, go to grainger.com/quickchangediscs

Norton Neon R766—Discs feature Y-weight polyester cloth backing and are excellent for stock removal, leveling, and blending applications on both contoured and flat metal surfaces.

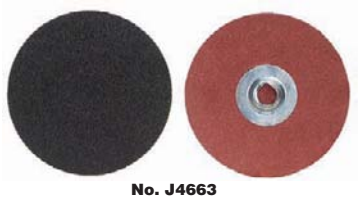
Norton Metalite® R228—X-weight cloth backing. Use for general purpose applications.

Merit—For general use, including blending light welds, breaking edges, and removing parting lines and machine marks. Abrasive surface is laminated to a tough backing for exceptional durability.

3M™ 361F—For deburring, blending, leveling, and finishing all types of materials. Lock securely and unlock easily with just a half twist. Resin bonded for heat resistance. Heavy-duty cloth backing.

ARC Abrasives, Inc® A0 Series—Y-weight backing. Use for general purpose grinding.

Disc Diameter	▶CHOOSE: Grit	Max. RPM	Disc Attachment Type	Item No.	Pkg. Qty.
TS System, Turn-On/Off					
Norton Neon R766					
1½"	36, 40, 80	30,000	Type 2	**J4663**	100
2"	24, 36, 40, 60	30,000	Type 2	**J4664**	100
3"	50, 60	20,000	Type 2	**J4665**	50
Norton Metalite R228					
1"	36, 50, 60, 80, 100, 120	30,000	Type 2	**J0806**	100
1½"	40, 60, 80, 100, 120, 180	30,000	Type 2	**J0809**	100
2"	24, 36, 40, 50, 60, 80, 100, 120, 150, 180, 240, 320	25,000	Type 2	**J0817**	100
3"	24, 36, 40, 50, 60, 80, 100, 150, 180, 240	20,000	Type 2	**J0825**	50
Merit					
1"	36, 60, 120	40,000	Type 2	**J0870**	100
2"	24, 50, 150, 180, 320	30,000	Type 2	**J0771**	100
3"	50, 120, 150, 180, 240	20,000	Type 2	**J0776**	50
TSM System, Turn-On/Off					
3M™ 361F					
1½"	80, 100	30,000	Type 2	**J0687**	50
2"	80, 120	25,000	Type 3	**J0691**	50
3"	36	20,000	Type 3	**J0695**	50
	120	20,000	Type 2	**J0695**	50
TS/TSM Turn-On/Off, Type 2					
Merit					
3"	36	30,000	Type 2	**464P77**	1
	60	20,000	Type 2	**464P75**	1
	120	30,000	Type 2	**464P76**	1
GA					
2"	60	30,000	Type 2	**447T22**	1
	80	30,000	Type 2	**447T23**	1
3"	60	20,000	Type 2	**447T27**	1
	80	20,000	Type 2	**447T28**	1



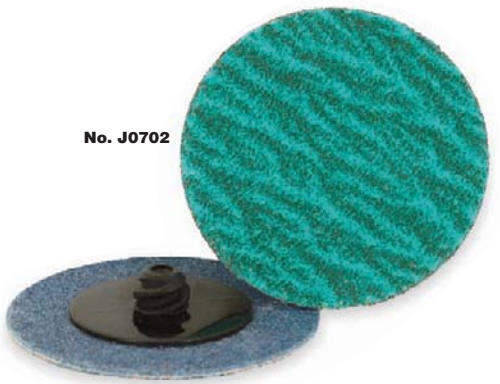
No. J4663



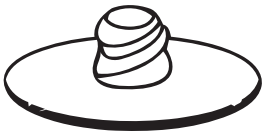
No. J0701

Disc Diameter	▶CHOOSE: Grit	Max. RPM	Disc Attachment Type	Item No.	Pkg. Qty.
TR System, Roll-On/Off					
Norton Neon R766					
2"	36, 80	30,000	Type 3	**J4660**	100
3"	36, 40, 50, 60, 80	20,000	Type 3	**J4661**	50
Merit					
1"	80, 120	40,000	Type 3	**J0757**	100
1½"	36, 50, 60, 80, 120, 180	30,000	Type 3	**J0760**	100
2"	24, 180	30,000	Type 3	**J0767**	100
3"	240	20,000	Type 3	**J0841**	50
ARC A0 Series					
2"	36, 50, 60, 80, 100, 120, 180	30,000	Type 3	**J0701**	25
3"	36, 50, 60, 80, 100, 120, 180	20,000	Type 3	**J0704**	25
3M™ 361F					
1"	36, 50, 80, 100, 120	30,000	Type 3	**J0685**	50
1½"	36, 60, 80, 100, 120	30,000	Type 3	**J0686**	50
2"	24, 36, 50, 60, 80, 100, 120, 150, 180, 240	25,000	Type 3	**J0690**	50
3"	24, 36, 50, 60, 100, 120, 150, 240	20,000	Type 3	**J0694**	50
TR Roll-On/Off, Type 3					
GA					
1½"	60	30,000	Type 3	**447T20**	1
	180	30,000	Type 3	**447T21**	1
2"	80	30,000	Type 3	**435Z13**	1
	220	30,000	Type 3	**435Z15**	1
	400	30,000	Type 3	**447T17**	1
3"	40	20,000	Type 3	**435Z14**	1
	80	20,000	Type 3	**435Z16**	1
	220	20,000	Type 3	**435Z17**	1
	400	20,000	Type 3	**447T18**	1
4"	60	15,000	Type 3	**447T26**	1
	80	15,000	Type 3	**447T25**	1
TP System, Snap-On/Off					
Merit					
1"	60, 80, 100, 120	40,000	Type 1	**J0756**	100
1½"	36, 60, 80, 120, 180, 240	30,000	Type 1	**J0761**	100
2"	24, 150, 320	30,000	Type 1	**J0769**	100
3"	180, 240, 320	20,000	Type 1	**J0775**	50

Thread Size	Shank Dia.	Pilot Dia.	Pilot Length	Brand	Item No.	Pkg. Qty.
Quick Change Mandrel						
Quick Change Discs						
¼" - 20"	¼"	—	—	Merit	**464P94**	1
	¼"	¼"	3"	Merit	**464P99**	1
8" - 32"	¼"	¼"	3"	Merit	**464P98**	1
Bore Polishers						
¼" - 20"	¼"	¼"	8"	Merit	**464P95**	1



No. J0702



TR (Type 3)
Roll-On/Off



TS/TSM (Type 2)
Turn-On/Off

Heavy-Duty Quick-Change Cloth Discs

- Zirconia alumina abrasive

Note: More sizes and styles are available; to see Grainger's full assortment of quick change discs, go to grainger.com/quickchangediscs

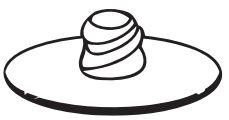
ARC® Zirc Plus—Self-sharpening zirconia grain offers a consistent removal rate and features an additional grinding aid to reduce heat. Ideal for use on stainless and other heat-sensitive metals.

NorZon BlueFire—Self-sharpening zirconia alumina abrasive provides cooler cutting action and longer disc life than aluminum oxide. Heavy Y-weight backing. Great for grinding and deburring stainless steel.

Disc Diameter	▶CHOOSE: Grit	Max. RPM	Item No.	Pkg. Qty.
TR System, Roll-On/Off				
ARC® Zirc Plus				
2"	36, 50, 60, 80, 120	25,000	**J0702**	25
3"	36, 50, 60, 80, 120	20,000	**J0705**	25
NorZon BlueFire				
1½"	60, 80	30,000	**J0814**	100
2"	24, 36, 50, 60, 80	25,000	**J0822**	25
3"	24, 36, 50, 60, 80	20,000	**J0830**	25
TS System, Turn-On/Off				
NorZon BlueFire				
1"	60, 80	30,000	**J0807**	100
1½"	36, 60, 80	30,000	**J0815**	100
2"	24, 36, 50, 60, 80	25,000	**J0823**	25
3"	24, 36, 50, 60, 80	20,000	**J0831**	25
4"	36, 50, 80	12,000	**J0832**	25



No. J0812



TR (Type 3)
Roll-On/Off



TS/TSM (Type 2)
Turn-On/Off

High Performance Quick-Change Discs

- Ceramic abrasive

Note: More sizes and styles are available; to see Grainger's full assortment of quick change discs, go to grainger.com/quickchangediscs.

3M™ 987C—Precision-shaped ceramic grain for fast cuts with less pressure. Grinding aid minimizes temperature for heat-sensitive alloys. Use on virtually all metals; ideal for stainless steel and nickel alloys. Fiber backing.

3M™ Cubitron™ II 947A—The precision-shaped coated ceramic grain is self-sharpening, for consistent, long-lasting performance that resists loading. Excellent for deburring, blending, cleaning, and finishing applications. X-weight poly-cotton backing.

3M™ Cubitron™ II 984F—A durable edge backing provides extended edge retention. Precision-shaped ceramic grain is self-sharpening and has a grinding aid for cooler running, wet or dry. YF-weight polyester cloth backing.

ARC Abrasives, Inc.® Predator®—Premium blend of proprietary grains, plus a grinding aid, with heavy poly-ester backing. Ideal for grinding mild steel and carbon steel. Fast cut rate and long life. Y-weight cloth backing.

Norton R983—Ceramic grain with "supersize" grinding aid lubricant resists dulling, providing outstanding wear resistance and long-lasting cutting performance. Cloth backing.

Norton SG Blaze® R980P—Improved ceramic aluminum oxide grain provides cool cut with fast cut rate. Durable polyester Y-weight backing. Treated with grinding aid for better part finish and integrity. Y-weight cloth backing.

Disc Diameter	▶CHOOSE: Abrasive Grit	Max. RPM	Item No.	Pkg. Qty.
3M™ 987C				
TR System, Roll-On/Off				
2"	36,60,80	25,000	**J2629**	50
3"	36,60,80	20,000	**J2631**	50
4"	36,60,80	12,000	**J2633**	25
TSM System, Turn-On/Off				
2"	36,60,80	25,000	**J2630**	50
3"	36,60,80	20,000	**J2632**	50
3M™ Cubitron™ II 947A				
TR System, Roll-On/Off				
1½"	40,60,80,120	30,000	**J4651**	1
2"	40,60,80,120	25,000	**J4652**	1
3"	40,60,80,120	20,000	**J4653**	1
4"	40,60,120	12,000	**J4654**	1
TSM System, Turn-On/Off				
1½"	40,60,80,120	30,000	**J4655**	1
2"	40,60,80	25,000	**J4656**	1
2"	120	25,000	**J4652**	1
3"	40,60,80,120	20,000	**J4657**	1
4"	40,60,80,120	12,000	**J4658**	1
3M™ Cubitron™ II 984F				
TR System, Roll-On/Off				
1½"	36,60,80	30,000	**J0688**	50
2"	36,60,80	25,000	**J0692**	50
3"	36,60,80	20,000	**J0696**	50
4"	36,60,80	12,000	**J0698**	25
TSM System, Turn-On/Off				
1½"	36,60,80	30,000	**J0689**	50
2"	36,60,80	25,000	**J0693**	50
3"	36,60,80	20,000	**J0697**	50
ARC® Predator®				
TR System, Roll-On/Off				
1"	60,100	40,000	**J0706**	100
1½"	24,40,50,60,80,120	30,000	**J0709**	100
2"	24,36,40,50,60,80,100,120	30,000	**J0713**	100
3"	24,36,40,50,60,80,100,120	20,000	**J0717**	50
4"	24,36,40,50,60,80,100,120	10,000	**J0721**	25
TS System, Turn-On/Off				
1"	36,120	40,000	**J0707**	100
1½"	24,36	25,000	**J0711**	100
1½"	50,60,80,100	30,000	**J0711**	100
2"	24,36,40,60,80,100	30,000	**J0715**	100
2"	120	25,000	**J0715**	100
3"	24,36,40,50,60,80,100,120	20,000	**J0719**	50
4"	24,36,60,80,120	10,000	**J0723**	25
Norton R983				
TR Roll-On/Off				
1½"	50	30,000	**J6526**	1
2"	36,50,60,80,120	30,000	**J6527**	1
3"	36,80	30,000	**J6528**	1
TS/TSM Turn-On/Off				
2"	120	30,000	**J6524**	1
3"	36,80	30,000	**J6525**	1
Norton SG Blaze® R980P				
TR System, Roll-On/Off				
1½"	36,50,60,80	30,000	**J0810**	100
2"	36,50,60,80	25,000	**J0818**	25
3"	36,50,60,80	20,000	**J0826**	25
TS System, Turn-On/Off				
1½"	36,50,60,80	25,000	**J0812**	100
2"	36,50,60,80	25,000	**J0820**	25
3"	36,50,60,80	20,000	**J0828**	25

Surface Blending Discs

Use on right angle or vertical shaft grinders to remove surface defects, flashing, rust and corrosion, paint, or scale. Also good for cleaning molds, blending mill and tool marks, and imparting finishes.

Merit and Scotch-Brite™—Aluminum oxide grit is excellent for finishing, cleaning, and light deburring; great for general purpose surface conditioning.

Norton Rapid Prep—Provide a smear-free finish, even on high nickel-content alloys; excellent for finishing and blending. Proprietary coating helps extend disc life.

Norton Vortex Rapid Prep—Proprietary aluminum oxide grain and coating help cut process times in half, and wear up to 4x longer. Provide a smear-free finish and will not load on aluminum and soft metals.

Scotch-Brite™ AL—Non-woven discs have open web construction for outstanding blending and finishing capabilities, and excellent loading resistance; last up to twice as long as standard discs.

Disc Diameter	MERIT Item No.	NORTON RAPID PREP Item No.	NORTON VORTEX RAPID PREP Item No.	3M™ SCOTCH-BRITE™ Item No.	3M™ SCOTCH-BRITE™ AL Item No.
Hook and Loop					
Black					
2"	—	—	22PA98	—	—
3"	—	22PA66	22PC04	—	—
4½"	32UX80	22PA74	22PC14	—	—
5"	32UX66	22PA80	22PC19	—	—
7"	32UX73	22PA85	22PC29	—	—
Blue					
2"	32UX85	22PA65	22PC03	477C48	45EL57
3"	32UX88	22PA70	22PC08	4ZR19	45EL58
4"	32UX91	2D456	22PC13	4ZR20	45EL59
4½"	32UX83	22PA78	22PC18	477C56	45EL60
	—	—	—	—	476T07
5"	32UX69	2D459	22PC23	4ZR22	45EL61
	—	—	—	477C64	—
6"	32UX72	2D462	22PC28	1DAE2	—
7"	32UX76	2D465	22PC33	4ZR23	45EL63
	—	—	—	477C66	—
	—	—	—	477C69	—
8"	—	22PA92	22PC38	477C71	—
48"	—	—	—	477C60	—
Brown					
2"	32UX92	22PA62	22PA99	4ZR51	45EL38
3"	32UX86	22PA67	22PC05	4ZR13	45EL39
4"	32UX89	2D454	22PC10	4ZR49	45EL40
4½"	32UX81	22PA75	22PC15	4ZR96	45EL41
	—	—	—	477C52	—
5"	32UX67	2D457	22PC20	4ZP91	45EL43
6"	32UX70	2D460	22PC25	4ZR02	—
7"	32UX74	2D463	22PC30	4ZP92	45EL45
	—	—	—	477C65	476T08
	—	—	—	477C67	—
8"	—	—	—	4ZP93	—
48"	—	—	—	477C58	—
Gray					
2"	—	—	—	477C49	—
3"	—	—	—	477C50	—
4"	—	—	—	477C51	—
4½"	—	—	—	477C54	—
	—	—	—	477C55	—
	—	—	—	477C57	—
5"	—	—	—	477C62	—
7"	—	—	—	477C68	—
	—	—	—	477C70	—
8"	—	—	—	477C72	—
48"	—	—	—	477C61	—
Green					
3"	—	22PA69	22PC07	—	—
4"	—	22PA73	22PC12	—	—
4½"	—	22PA77	22PC17	—	—
5"	—	—	22PC22	—	—
7"	—	22PA86	22PC32	—	—
Maroon					
1½"	—	—	—	—	477C46
2"	32UX84	22PA63	22PC01	4ZR52	45EL48
3"	—	22PA68	22PC06	4ZR14	45EL49
4"	32UX90	22PA72	22PC11	4ZR50	476T09
4½"	—	—	—	477C53	—
	32UX82	22PA76	22PC16	4ZR95	45EL51

Disc Diameter	MERIT Item No.	NORTON RAPID PREP Item No.	NORTON VORTEX RAPID PREP Item No.	3M™ SCOTCH-BRITE™ Item No.	3M™ SCOTCH-BRITE™ AL Item No.
5"	32UX68	2D458	22PC21	4ZP84	45EL53
	—	—	—	477C63	—
6"	32UX71	2D461	22PC26	4ZR03	—
7"	32UX75	2D464	22PC31	4ZP86	45EL55
8"	—	—	—	4ZP89	—
14"	—	—	—	477C47	—
48"	—	—	—	477C59	—
TR Roll-On/Off					
Black					
2"	32UX57	22PC70	22PD21	—	—
3"	32UX40	22PC75	—	—	—
4"	—	—	22PD41	—	—
Blue					
1½"	32UX56	—	22PD19	6RT44	45EL67
2"	32UX60	2D468	22PD29	4ZR33	45EL83
3"	32UX63	2D471	22PD39	4ZR37	45EL86
4"	32UX36	22PC88	22PD49	—	45EL68
Brown					
1½"	32UX54	22PC62	22PD13	6RT42	45EL65
2"	32UX58	2D466	22PD23	4ZR35	45EL85
3"	32UX35	2D469	22PD33	4ZR39	45EL88
4"	—	22PC79	22PD43	—	45EL70
Gray					
2"	—	22PC71	—	4ZR32	—
3"	—	22PC76	—	4ZR36	—
Green					
2"	—	22PC73	22PD27	—	—
3"	—	22PC78	22PD37	—	—
4"	—	—	22PD47	—	—
Maroon					
1½"	32UX55	—	22PD15	4ZR55	45EL66
2"	32UX59	2D467	22PD25	4ZR34	45EL84
3"	32UX62	2D470	22PD35	4ZR38	45EL87
4"	32UX39	22PC80	22PD45	4ZR68	45EL69
TS/TSM Turn-On/Off					
Blue					
1½"	—	22PC67	22PD18	—	45EL95
2"	32UX42	4F799	—	6RZ13	45EL73
	—	—	—	4ZR76	45EL94
3"	—	—	—	6RZ17	45EL98
	32UX47	4F801	22PD38	4ZR79	45EL76
4"	—	—	—	—	45EL79
Brown					
1½"	32UX65	22PC61	22PD12	—	45EL97
2"	—	—	—	4ZR74	45EL91
	32UX33	4F797	22PD22	6RZ10	45EL71
3"	—	—	—	6RZ12	45EL93
	32UX45	4F802	22PD32	4ZR77	45EL74
4"	32UX50	—	22PD42	—	45EL77
Maroon					
1½"	32UX34	22PC63	22PD14	—	45EL96
2"	—	—	—	6RZ09	45EL90
	32UX41	4F798	22PD24	4ZR75	45EL72
3"	—	—	—	6RZ11	45EL92
	32UX46	4F800	22PD34	4ZR78	45EL75
4"	32UX51	22PC84	22PD44	—	45EL78

COLOR	GRADE
Gray	Super Fine
Blue	Very Fine
Green	Fine
Maroon	Medium
Brown	Coarse
Black	Extra Coarse



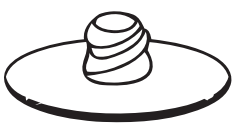
Hook and Loop Disc



TR Roll-On/Off



TS/TSM Turn-On/Off



TR (Type 3) Roll-On/Off



TS/TSM (Type 2) Turn-On/Off

Grinding and Blending Discs

Scotch-Brite™ discs provide light grinding and blending with a single disc. 3M™ ceramic aluminum oxide abrasive blend yields a burr-free, paintable finish. 3M™ TN quick-change attachment system features a ⅝-11 metal mounting nut that threads on tool.



No. 3TPN1

Disc Diameter	Abrasive Grade	Color	Max. RPM	Mfr. Model	Item No.
Scotch Brite™ TN Discs					
4½"	Coarse	Maroon	12,000	61500292604	**3TPN1**
	Coarse	Blue	12,000	GB-DN	**3TPN2**
5"	Coarse	Maroon	12,000	61500292620	**3TPN3**
	Coarse	Blue	12,000	GB-DN	**3TPN4**
7"	Coarse	Blue	8600	GB-DN	**3TPN6**

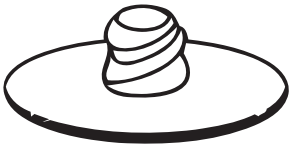
Disc Diameter	Abrasive Grade	Color	Max. RPM	Mfr. Model	Item No.
Scotch Brite™ Roloc™ TR Discs					
2"	Coarse	Maroon	25,000	GB-DR	**4YJY3**
	Coarse	Blue	25,000	GB-DR	**4YJY4**
3"	Coarse	Maroon	18,000	GB-DR	**4YJY5**
	Coarse	Blue	18,000	GB-DR	**4YJY6**



TP (Type 1)
Snap-On/Off



TS/TSM
(Type 2)
Turn-On/Off



TR (Type 3)
Roll-On/Off



TR Pad,
No. 2D472



TS Pad,
No. 6TV08



Hook-and-Loop Pad,
No. 4ZR54

NORTON SAINT-GOBAIN MERIT we know abrasives 3M

Quick-Change Disc Back-Up Pads

Designed for use on vertical shaft grinders to provide the required support and locking mechanism. Use TS pads with Norton Speed-Lok® TS and Merit® Type 2, Standard Quick-Change™ discs. Use TR pads with Norton Speed-Lok TR, 3M® Roloc™, and Merit Type 3 discs. Medium density can be used for a variety of grinding and finishing applications. Use hard density for high-pressure applications and jobs that require heavy metal removal.

Disc Diameter	Density	Max. RPM	Mfr. Model	Item No.
Norton TS Back-Up Pads, ¼" Shank				
1"	Medium	40,000	63642543185	**3WK69**
1½"	Medium	25,000	63642543200	**3WK70**
2"	Hard	30,000	63642543205	**3WK71**
3"	Medium	20,000	63642543225	**4F864**
	Hard	20,000	63642543220	**3WK72**
4"	Medium	12,000	63642543232	**3WK74**
Norton TR Back-Up Pads, ¼" Shank				
1¼"	Medium	30,000	66261047580	**3WZ23**
2"	Medium	25,000	66261055103	**2D472**
3"	Medium	20,000	66261055105	**2D473**
4"	Medium	12,000	66261047581	**3WZ24**
Merit TS Back-Up Pads, ¼" Shank				
1½"	Hard	30,000	08834164622	**2KNG4**
2"	Medium	30,000	08834160011	**3RU43**
3"	Medium	20,000	08834160017	**3RU41**
	Hard	20,000	08834161626	**3RU31**
Merit TR Back-Up Pads, ¼" Shank				
1"	Medium	40,000	08834160002	**3RU39**
2"	Medium	30,000	08834160013	**3RU49**
	Hard	30,000	08834160014	**3RU47**
3"	Medium	20,000	08834160022	**3RU50**
	Hard	20,000	08834160019	**3RU40**
Merit TP Back-Up Pads, ¼" Shank				
1½"	Medium	30,000	08834164003	**2KNG3**
2"	Medium	30,000	08834160009	**3RU37**
	Hard	30,000	08834160010	**3RU33**
3"	Medium	20,000	08834160015	**3RU38**
	Hard	20,000	08834160016	**3RU34**
Merit Quick Change Back-Up Pads, ¼"-20 Shank				
3"	Medium	20,000	08834164113	**464P96**
3M™ Roloc™ TS Disc Pads				
1½"	Medium	30,000	77729	**6TV08**
2"	Medium	25,000	14211	**6TJ68**
3"	Medium	18,000	14215	**6TJ70**
	Hard	20,000	14216	**6TJ71**
3M™ Roloc™ TR Disc Pads				
1"	Medium	30,000	45101	**6TP98**
1½"	Medium	30,000	45099	**6TP96**
	Hard	30,000	45100	**6TP97**
2"	Medium	25,000	45095	**6TP92**
	Hard	25,000	45096	**6TP93**
3"	Medium	18,000	45092	**6TP89**
	Hard	20,000	45091	**6TP88**
3M™ Roloc™ Shank				
¼" Shaft x ¼-20 Thread			45102	**6TP99**

Disc Diameter	Max. RPM	Mfr. Model	Item No.
Norton Hook-and-Loop Back-Up Pads, ⅝-11 Arbor Hole			
4"	13,000	66261059304	**2D511**
5"	10,000	66261059310	**2D512**
6"	6000	66261059312	**2D513**
7"	6000	66261059368	**2D514**
3M Hook-and-Loop Back-Up Pads, ⅝-11 Arbor Hole			
4"	13,000	05674	**4ZR41**
4½"	13,000	14111	**4ZR97**
5"	10,000	05680	**4ZR42**
6"	10,000	05682	**4ZR43**
7"	6000	09450	**4ZR62**
8"	6000	918	**4ZR63**
3M Hook-and-Loop Back-Up Pads, ¼" Shank			
2"	23,000	07494	**4ZR54**
3"	20,000	04132	**4ZR15**
4"	13,000	07492	**4ZR53**





No. 4ZP88
(Mandrel Sold Seperately)



No. 4ZR93

3M

High-Strength Finishing Discs

Highly conformable Scotch-Brite™ discs are ideal for finishing using bench motors, grinders, or drills. Also for use in antique finishing or highlighting. Remove oxide, light coating, and burrs.

Disc Dia.	Grade	Mounting Hole Size	Max. RPM	Mfr. Model	Item No.
6"	Very Fine	¼"	4000	HS-DC	**4ZP88**
	Very Fine	½"	4000	HS-DC	**4ZP87**
	Medium	½"	4000	HS-DC	**4ZR17**
8"	Very Fine	½"	3000	HS-DC	**4ZP90**
	Medium	½"	3000	HS-DC	**4ZR04**

Description	L (in.)	Shank Dia. (in.)	Washer O.D. (in.)	Max. RPM	Mfr. Model	Item No.
Mandrel for High Strength and Clean and Strip Discs	2	¼	1	14,000	933	**4ZR93**



No. 6RX76



No. 6RX96

3M

Bristle Discs

Scotch-Brite™ Roloc™ discs have bristles that conform to the contours of the workpiece without damaging base material. Designed to resist loading. Use with Roloc™ TR Disc Back-Up Pads (sold separately on this page).

Dia.	Trim Length	36 GRIT Item No.	36 GRIT Pkg. Qty.	50 GRIT Item No.	50 GRIT Pkg. Qty.	80 GRIT Item No.	80 GRIT Pkg. Qty.	120 GRIT Item No.	120 GRIT Pkg. Qty.
1"	⅝"	—	—	**6RX73**	1	**6RX74**	1	**4YJZ3**	20
2"	⅝"	—	—	**6RX76**	1	**6RX77**	1	**6RX78**	1
3"	⅝"	—	—	**6RX79**	1	**6RX80**	1	**6RX81**	1
4½"	¾"	**1DAB2**	1	**6RX96**	1	**6RX97**	1	**1DAE1**	1

Fiber Disc Application Guide

Disc Diameter	RPM Rating
4	12,000
4½	11,000
5	10,000
7	8,600
9⅛	6,600

GRIT GUIDE							
Coarser for Grinding							Finer for Finishing
16	24	36	40	50	60	80	100	120
Stock Removal								
		Edge Chamfering/Beveling						
		Weld Blending						
				Deburring/Deflashing				
					Rust Removal/Blending			
						Cleaning and Finishing		



Norton Metal F240
No. 1KYA8

NORTON SAINT-GOBAIN ★GA GRAINGER APPROVED

General Purpose Fiber Discs

- Aluminum oxide abrasive

Full resin bond and fiber backing provide strength, durability, and tear resistance. Discs designated with ⅞-11 mounting holes feature Norton quick, tool-free, twist on-and-off speed change fasteners. Use on right-angle grinders with back-up pads, sold separately on page 2376.

Norton Metal F240—Designed for general purpose applications and small jobs.

Norton Neon —Provide fast initial cutting action.

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
Norton Metal F240				
4 ½ in	⅞ in	24	**1KYA8**	25
	⅞ in	36	**1KYB2**	25
	⅞ in	50	**1KXL6**	25
	⅞ in	60	**1KXL9**	25
	⅞ in	80	**1KYA4**	25
	⅞ in	100	**1KYA7**	25
	⅞ in	120	**1KWL5**	25
5 in	⅞ in	24	**1KWL6**	25
	⅞ in	36	**1KWL9**	25
	⅞ in	50	**1KXL3**	25
	⅞ in	60	**1KVL4**	25
	⅞ in	80	**1KVL7**	25
	⅞ in	100	**1KWL1**	25
	⅞ in	120	**1KWL2**	25
7 in	⅞ in	24	**1KWL3**	25
	⅞ in	60	**1KVL1**	25
	⅞ in	80	**1KUY8**	25
Norton Neon				
4 in	⅝ in	24	**22UR95**	25
	⅝ in	36	**22UR96**	25
	⅝ in	50	**22UR97**	25
	⅝ in	60	**22UR98**	10
	⅝ in	80	**22UR99**	25
	⅝ in	100	**22UT01**	10
	⅝ in	120	**22UT02**	10
4 ½ in	⅞ in	24	**22UT03**	25
	⅞ in	36	**22UT04**	25
	⅞ in	50	**22UT05**	25
	⅞ in	60	**22UT06**	25
	⅞ in	80	**22UT07**	25
	⅞	100	**22UT08**	25
	⅞ in	120	**22UT09**	25
5 in	⅝"-11	36	**22UT31**	25
	⅝"-11	60	**22UT32**	25
	⅞ in	24	**22UT10**	10
	⅞ in	36	**22UT11**	10
	⅞ in	50	**22UT12**	10
	⅞ in	60	**22UT13**	10
	⅞ in	80	**22UT14**	10
	⅞ in	100	**22UT15**	10
	⅞"	120	**22UT16**	10
7 in	⅝"-11	24	**22UT33**	10
	⅝"-11	36	**22UT34**	10
	⅝"-11	50	**22UT35**	10
	⅝"-11	80	**22UT36**	10
	⅝"-11	100	**22UT37**	10
	⅝"-11	120	**22UT38**	10
	⅞ in	24	**22UT17**	10
	⅞ in	36	**22UT18**	10
	⅞ in	50	**22UT19**	10
	⅞ in	60	**22UT20**	10
	⅞ in	80	**22UT21**	10
	⅞ in	100	**22UT22**	10
	⅞ in	120	**22UT23**	10
9 ⅛ in	⅞ in	24	**22UT24**	10
	⅞ in	36	**22UT25**	10
	⅞ in	50	**22UT26**	10
	⅞ in	60	**22UT27**	10
	⅞ in	80	**22UT28**	10
	⅞ in	100	**22UT29**	10
	⅞ in	120	**22UT30**	10
GA				
4 ½ in	⅞ in	24	**435Z54**	25
	⅞ in	50	**435Z28**	25
	⅞ in	60	**435Z26**	25
	⅞ in	80	**435Z39**	25
5 in	⅞ in	24	**435Z55**	25
	⅞ in	36	**435Z40**	25
	⅞ in	50	**435Z82**	25
	⅞ in	60	**435Z67**	25
	⅞ in	80	**435Z59**	25
	⅞ in	120	**435Z64**	25
7 in	⅞ in	24	**435Z38**	25
	⅞ in	36	**435Z72**	25
	⅞ in	50	**435Z84**	25
	⅞ in	60	**435Z31**	25
	⅞ in	80	**435Z61**	25
	⅞ in	120	**435Z65**	25



Norton BlueFire
No. 1YEG3

MERIT we know abrasives NORTON SAINT-GOBAIN ★GA GRAINGER APPROVED

Heavy-Duty Fiber Discs

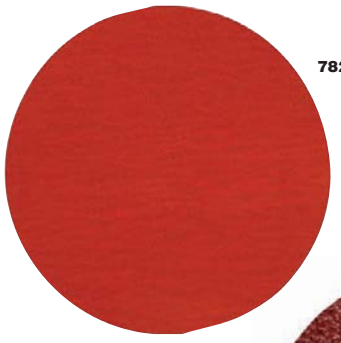
- Zirconia alumina abrasive

Merit® FX672—Excellent performance on stainless steel.

Norton BlueFire—Self-sharpening abrasive provides fast, aggressive cutting action. Improved resin bond yields longer life. Suitable for stainless, alloys, and high-pressure use.

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
Merit FX672				
4½"	⅞"	24	**1KYA9**	25
	⅞"	36	**1KYB3**	25
	⅞"	50	**1KXL7**	25
	⅞"	60	**1KYA1**	25
	⅞"	80	**1KYA5**	25
5"	⅞"	24	**1KWL7**	25
	⅞"	36	**1KXL1**	25
	⅞"	50	**1KXL4**	25
	⅞"	60	**1KVL5**	25
	⅞"	80	**1KVL8**	25
7"	⅞"	24	**1KWL4**	25
	⅞"	60	**1KVL2**	25
	⅞"	80	**1KUY9**	25
Norton Blue Fire				
4½"	⅞"	24	**1YEG7**	25
	⅞"	36	**1YEG6**	25
	⅞"	50	**1YEG5**	25
	⅞"	60	**1YEG4**	25
	⅞"	80	**1YEG3**	25
5"	⅞"	24	**1YER1**	25
	⅝"-11	24	**1YEH8**	25
	⅞"	36	**1YEL1**	25
	⅝"-11	36	**1YEH7**	25
	⅞"	50	**1YEK9**	25
	⅞"	60	**1YEN2**	25
	⅞"	80	**1YEN1**	25
7"	⅞"	24	**1YEL9**	25
	⅝"-11	24	**1YEU9**	25
	⅞"	36	**1YEL8**	25
	⅝"-11	36	**1YEU8**	25
	⅞"	50	**1YEL7**	25
	⅝"-11	50	**1YEU7**	25
	⅞"	60	**1YEL6**	25
	⅝"-11	60	**1YEU6**	25
	⅞"	80	**1YEL5**	25
9⅛"	⅞"	24	**1YEL4**	25
	⅞"	36	**1YEL3**	25
	⅞"	50	**1YEL2**	25
GA				
4½"	⅞"	50	**435Z83**	25
	⅞"	80	**435Z94**	25
5"	⅞"	24	**436A21**	25
	⅞"	50	**436A02**	25
	⅞"	60	**436A09**	25
7"	⅞"	24	**436A22**	25
	⅞"	36	**435Z89**	25
	⅞"	50	**436A13**	25
	⅞"	80	**435Z97**	25

FIND MORE ONLINE
Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!





3M

Roloc™ Fiber Discs

- Ceramic abrasive
- Pkg. qty. 10

Precision-shaped ceramic grain produces a faster cut and runs cooler for longer service life, increased production, and lower cost-per grind.

782C—An outstanding choice for grinding and cutting carbon steel.

787C—Engineered for use on stainless steel and non-ferrous metals, such as aluminum and titanium.

Disc Diameter	Abrasive Grit	Abrasive Grade	Max. RPM	782C Attachment Type	782C Item No.	787C Attachment Type	787C Item No.
2"	36	Extra Coarse	30000	GL	418C24	TR	418C63
	60	Coarse	30000	TR	418C28	TR	418C67
	80	Coarse	30000	TR	418C32	TR	418C71
	120	Medium	30000	—	—	TR	418C75
3"	36	Extra Coarse	20000	—	418C25	TR	418C64
	60	Coarse	20000	—	418C29	TR	418C68
	80	Coarse	20000	TR	418C33	TR	418C72
	120	Medium	20000	—	—	TR	418C76
4"	36	Extra Coarse	12000	TN	418C26	TR	418C65
	36	Extra Coarse	12000	—	418C27	TS	418C66
	60	Coarse	12000	TR	418C30	TR	418C69
	60	Coarse	12000	TS	418C31	—	—
	80	Coarse	12000	TR	418C34	TR	418C73
	80	Coarse	12000	TS	418C35	TS	418C74
	120	Medium	12000	—	—	TR	418C77
	120	Medium	12000	—	—	TS	418C78
4½"	36	Extra Coarse	13300	—	418A98	—	418C36
	36	Extra Coarse	13300	TN Quick Change	418C14	TN Quick Change	418C51
	36	Extra Coarse	13300	—	418C79 *	—	418C81 *
	60	Coarse	13300	TN Quick Change	418C17	TN Quick Change	418C54
	60	Coarse	13300	—	418C03	—	418C41
	80	Coarse	13300	—	418C07	—	418C45
	80	Coarse	13300	TN Quick Change	418C21	TN Quick Change	418C57
	120	Medium	13300	—	—	—	418C48
	120	Medium	13300	—	—	TN Quick Change	418C60
5"	36	Extra Coarse	12000	GL Quick Change	418C11	TN Quick Change	418C52
	36	Extra Coarse	12000	TN Quick Change	418C15	—	—
	36	Extra Coarse	12000	—	418A99	—	418C37
	60	Coarse	12000	TN Quick Change	418C18	TN Quick Change	418C55
	60	Coarse	12000	—	418C04	—	418C42
	80	Coarse	12000	TN Quick Change	418C22	TN Quick Change	418C58
	80	Coarse	12000	—	418C08	—	418C46
	120	Medium	12000	—	—	—	418C49
	120	Medium	12000	—	—	TN Quick Change	418C61
7"	36	Extra Coarse	8600	GL Quick Change	418C12	TN Quick Change	418C53
	36	Extra Coarse	8600	TN Quick Change	418C16	—	418C82 *
	36	Extra Coarse	8600	—	418C01	—	418C38
	36	Extra Coarse	8600	—	418C80 *	—	—
	60	Coarse	8600	GL Quick Change	418C13	TN Quick Change	418C56
	60	Coarse	8600	—	418C05	—	418C43
	60	Coarse	8600	TN Quick Change	418C19	—	—
	80	Coarse	8600	—	418C09	—	418C47
	80	Coarse	8600	TN Quick Change	418C23	—	—
	80	Coarse	8600	GL Quick Change	418C20	TN Quick Change	418C59
	120	Medium	8600	—	—	TN Quick Change	418C62
	120	Medium	8600	—	—	—	418C50
9⅛"	36	Extra Coarse	6600	—	418C02	—	418C39
	60	Coarse	6600	—	418C06	—	—
	80	Coarse	6600	—	418C10	—	—

***Includes case.**



Norton F980 Blaze

NORTON SAINT-GOBAIN 3M ARC ABRASIVES INC

High Performance Fiber Discs

- Ceramic abrasive
- ⅞" mounting hole, except Nos. 448C06 to 448C08 have ⅝"
- Pkg. qty. 25

Disc Diameter	Abrasive Grit	Item No.
Norton F980 Blaze		
4½"	24	2KMR1
	36	2KMR5
	50	2KMR9
	60	2KMT4
	80	2KMT7
5"	24	2KMR2
	36	2KMR6
	50	2KMT1
	60	2KMT5
	80	2KMT8
7"	24	2KMR3
	36	2KMR7
	50	2KMT2
	60	2KMT6
	80	2KMT9
9⅛"	36	2KMR8
	50	2KMT3
Norton F981 Red Heat		
4½"	24	49P551
	36	49P550
	50	49P549
	60	49P548
	80	49P547
5"	24	49P558
	36	49P557
	50	49P556
	60	49P555
	80	49P554
7"	24	49P565
	36	49P564
	50	49P563
	60	49P562
	80	49P561
	100	49P560
	120	49P559
9⅛"	24	49P571
	36	49P570
	60	49P568
	80	49P567

Disc Diameter	Abrasive Grit	Item No.
ARC® Predator®		
4½"	24	13T140
	36	13T141
	50	13T142
	60	13T143
	80	13T144
	120	13T145
5"	24	13T146
	36	13T147
	50	13T148
	60	13T149
	120	13T151
7"	24	13T152
	36	13T153
	50	13T154
	60	13T155
	80	13T156
	120	13T157
ARC® Predator® Performance Coated		
4½"	50	13T160
	60	13T161
	80	13T162
	120	13T163
5"	36	13T165
	50	13T166
	60	13T167
	80	13T168
	120	13T169
7"	36	13T171
3M 987C		
4"	36	448C06
	60	448C07
	80	448C08
4½"	60	448A65
	80	448A66
5"	60	448F23
	80	448F24
7"	60	448C11

Norton F980 Blaze—Contain a grinding aid to help provide a better finish and longer life on stainless steel and alloyed metals. Heavy fiber backing. For material removal, weld grinding and blending, light deburring, and finishing.

Norton F981 Red Heat—The coated grain provides faster cutitng, longer life, and a better finish on mild carbon steel, stainless steel, and hard-to-grind alloys.

3M™ 987C—Stand up to robotic weld grinding, and other heavy-duty applications; integrated grinding aid helps extended disc life. Excellent on cobalt and nickel alloys, high-nickel alloy, stainless steel, titanium, and titanium/zirconium substrates.**ARC® PREDATOR®—**Ideal for grinding mild steel and carbon steel. Performance-coated discs are designed for aluminum, soft metals, and alloys. Coating resists loading for high cut rate and performance.



Face Plate No. 6TJ73



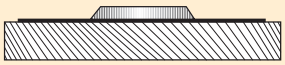
Back-Up Pad No. 3RA61

NORTON SAINT-GOBAIN 3M

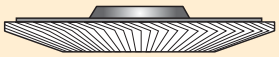
Back-Up Pads and Face Plates

Description	Dia.	Mounting Size	Max. Speed	Brand	Mfr. Model	Item No.
Back-Up Pads						
Disc Back-Up Pad	4"	⅝"-11	12,000 rpm	Norton	63642504918	3RA61
	4½"	⅝"-11	11,000 rpm	Norton	63642502122	4LL38
Air-Cooled Disc Back-Up Pad	5"	⅝"-11	10,000 rpm	Norton	63642543421	1LZH4
Disc Back-Up Pad	7"	⅝"-11	8600 rpm	Norton	63642543422	5A975
	9"	⅝"-11	6600 rpm	Norton	63642543423	6A035
Speed-Lok™ Disc Back-Up Pad	5"	⅝"-11	12,000 rpm	Norton	63642543235	3WK75
	7"	⅝"-11	8600 rpm	Norton	63642543245	3WK77
Face Plates						
Disc Face Plate	4½"	⅞"	13,300 rpm	3M	14270	6TJ73
	7"	⅞"	8600 rpm	3M	80515	6TV38
Face Plate Hubs						
Disc Pad Face Plate Hub	2½"	⅝" - 11	—	3M	45205	6TR47
	4½"	⅜" - 11	—	3M	45190	6TR35
Retainer Nuts						
Disc Retainer Nut		⅝-11	—	3M	05622	6TH46
Retainer Nut for Speed-Lok™ Back-Up Pads	⅜"	⅝-11	—	Norton	63642543461	1LZH5
	1¾"	⅝-11	—	Norton	63642543463	1LZH6

Flap Disc Specifications



Type 27 Flat



Type 29 Conical

WHY CHOOSE A FLAP DISC?	
Flap Discs can replace both grinding wheels and fiber discs. The same flap disc can be used for applications ranging from stock removal to blending.	
Flap Discs vs. Grinding Wheels	**Flap Discs vs. Fiber Discs**
Faster stock removal	Longer life, reduced abrasive cost
Smoother finish with no gouging	Fewer disc changes for reduced cost
Cooler cutting, less glazing	More consistent finish
Lightweight and easier to control	No back-up pad required
Less vibration for reduced operator fatigue	Easier storage with no curling
Reduced noise	Reduced loading
	Grit is coarser size

FLAP DISC SHAPES	
Type 27 Flat	**Type 29 Conical**
Grind at flatter angles 0° to 15°	Grind at steeper angles 15° to 25°
Used primarily on flat surfaces	Have angled flaps and may be used on both contoured and edge work
Best choice for blending and smooth finishing	Angle provides greater surface contact for stock removal on flat surfaces
	Best choice when speed and stock removal are primary considerations

GRAIN SELECTION	
Abrasive Grain Type	**Application**
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind materials
Zirconia Alumina - Heavy Duty	High rate of stock removal and long life in demanding applications
Aluminum Oxide - General Purpose	General purpose metalworking applications

GRIT GUIDE							
Coarser for Grinding						**Finer for Finishing**	
24	**36**	**40**	**50**	**60**	**80**	**100**	**120**
Stock Removal							
	Edge Chamfering/Beveling						
		Weld Blending					
			Deburring/Deflashing				
				Rust Removal/Blending			
					Cleaning and Finishing		

BACKING PLATE MATERIALS	
Flap discs are a combination of abrasive flaps adhered to a rigid backing plate. The backing plate provides stability during operation.	
Backing Material	**Advantages**
Fiberglass	High strength and lightweight; helps to absorb vibration
Plastic	Offers some conformability and is trimmable
Aluminum	Rigid support for maximum aggression; recyclable
Composite	Trimmable, non-marking; allows access at hard-to-reach angles
Phenolic	Prevents backing from scratching the workpiece



No. 493Z12



No. H5950



No. H5949

DEWALT

GA GRAINGER APPROVED

NORTON SAINT-GOBAIN

General Purpose Flap Discs

DEWALT® SG 40

Coated ceramic abrasive provides long life and fast material removal on ferrous metals. Plastic backing.

NEON™ HIGH DENSITY

Larger flaps improve conformity on uneven or contoured surfaces. Fiberglass backing.

NEON™

Alternating aluminum oxide and zirconia alumina flaps. Good for aluminum, brass, bronze, stainless steel, carbon steel, and titanium. Quick-trim flexible plastic backing plate wears away as the disc grinds.

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Item No.
Dewalt SG40				
Type 27				
4½"	⅝"-11	13,300	40	**493Z12**
GA				
4"	⅝"	15,300	36, 40, 60, 80, 120	**J7232**
4½"	⅝"	13,300	36, 120	**J7233**
Type 29				
4"	⅝"	15,300	60	**J7234**
5"	⅞"	12,000	60	**447R68**
Norton Neon High Density™				
Type 27				
4½"	⅝"-11	13,300	36, 40, 60, 80	**H5950**
	⅞"	13,300	36, 40, 60, 80	**H5955**
5"	⅝"-11	12,000	36, 40, 80	**H5960**
	⅞"	12,000	40, 60, 80	**H5964**
6"	⅝"-11	10,200	40, 60, 80	**H5968**
	⅞"	10,200	36, 40, 60, 80	**H5971**
7"	⅝"-11	8600	36, 40, 60, 80	**H5975**
	⅞"	8600	36, 60, 80	**H5980**
Norton Neon™				
Type 27				
4½"	⅝"-11	13,300	36, 40, 60, 80, 120	**H5949**
	⅞"	13,300	36, 40, 60, 80, 120	**H5954**
5"	⅝"-11	12,000	36, 40, 60, 80, 120	**H5959**
	⅞"	12,000	36, 40, 60, 80, 120	**H5963**
6"	⅞"	10,200	40, 60, 80, 120	**H5970**
7"	⅝"-11	8600	36, 40, 60, 80, 120	**H5974**
	⅞"	8600	36, 40, 60, 80, 120	**H5979**
Type 29				
4½"	⅝"-11	13,300	36, 40, 60, 80, 120	**H7390**
	⅞"	13,300	36, 40, 60, 80, 120	**H7391**
5"	⅝"-11	12,000	60, 80, 120	**H7392**
	⅞"	12,000	36, 40, 60, 80, 120	**H7393**
6"	⅝"-11	10,200	40, 60, 80	**H7394**
	⅞"	10,200	40, 60, 80	**H7395**
7"	⅝"-11	8600	36, 40, 60, 80, 120	**H7396**
	⅞"	8600	40, 60	**H7398**



Blaze® Type 3



Bluefire™ Type 2

NORTON SAINT-GOBAIN

Type 2 (TS) and Type 3 (TR) Flap Discs

Mini flap discs offer simultaneous grinding and finishing, to help save you time, labor, and money. High-strength lightweight plastic backing absorbs vibration, while the durable, Y-weight polyester flaps wear away evenly for aggressive cutting and good blending capabilities. For back up pads, see page 2374.

BLAZE®

The Blaze disc can be used on tough materials, such as stainless steel, titanium, and super alloys, and provide up to 200% longer service life. An excellent choice for aerospace, surgical/medical/distilling equipment, food processing/equipment machinery, pressure vessels, and ship containers. A "supersize" grinding aid provides cooler cutting, and a noticeably faster cutting rate.

BLUEFIRE™

The Bluefire discs feature a zirconia alumina abrasive that provides aggressive cutting and up to 30% longer life on mild carbon steel and welds. The semi-open coat also retards loading on aluminum. An excellent choice for farm equipment, propane tanks, civil/construction/military equipment, and plate steel/structural steel.

Disc Type	Disc Dia.	Mounting Size	Max. RPM	▶CHOOSE: Grit	Item No.
SG Blaze®					
Type 2	2"	QC TS	30,000	36, 40, 60, 80, 120	**J5071**
	3"	QC TS	30,000	36, 40, 60, 80	**J5072**
	3"	QC TS	20,000	120	**J5072**
Type 3	2"	QC TR	30,000	36, 40, 60, 80, 120	**J5073**
	3"	QC TR	30,000	36, 40, 60, 80, 120	**J5074**
Bluefire™					
Type 2	2"	QC TS	30,000	36, 40, 60, 80, 120	**J5075**
	3"	QC TS	30,000	36, 40, 60, 80, 120	**J5076**
Type 3	2"	QC TR	30,000	36, 40, 60, 80, 120	**J5077**
	3"	QC TR	30,000	36, 40, 60, 80, 120	**J5078**

Scan. Order. Done.
Details on page A1.



Bluefire™
No. H5951



Bobcat™ Mini
No. H7334



Tiger Paw™
No. H7358

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Brand	Item No.
Type 27					
Big Cat® High Density					
4½"	⅝"-11	12,000	40, 60, 80	Weiler	**H7340**
	⅞"	12,000	40, 60, 80, 120	Weiler	**H7341**
7"	⅝"-11	8600	40, 60, 80	Weiler	**H7353**
	⅞"	8600	40, 80	Weiler	**H7354**
BlueFire					
4½"	⅝"-11	13,300	36, 40, 60, 80	Norton	**H5951**
	⅞"	13,300	36, 40, 60, 80	Norton	**H5956**
5"	⅝"-11	12,000	36, 40, 60, 80	Norton	**H5961**
	⅞"	12,000	36, 40, 60, 80	Norton	**H5965**
6"	⅞"	10,200	40, 60, 80	Norton	**H5972**
7"	⅝"-11	8600	36, 40, 60, 80	Norton	**H5976**
	⅞"	8600	36, 40, 60, 80	Norton	**H5981**
Bobcat Mini					
3"	¼"	20,000	36, 40, 60, 80, 120	Weiler	**H7334**
GA					
4"	⅝"	15,300	80, 60, 40, 120, 36	GA	**J7232**
4½"	⅝"	13,300	36, 120	GA	**J7233**
Tiger Paw™					
4"	⅝"	15,000	40, 60	Weiler	**H7358**
4½"	⅝"-11	13,000	36, 40, 60, 80	Weiler	**H7356**
	⅝"-11	12,000	60, 36, 40, 80	Weiler	**H7345**
	⅞"	13,000	36, 40, 60, 80	Weiler	**H7359**
	⅞"	12,000	36, 40, 60, 80	Weiler	**H7360**
5"	⅝"-11	12,000	40, 60, 36, 80	Weiler	**H7362**
	⅞"	12,000	40, 60	Weiler	**H7363**
7"	⅝"-11	8600	36, 40, 60, 80	Weiler	**H7347**
	⅝"-11	8600	40, 60	Weiler	**H7346**
	⅞"	8600	40, 60	Weiler	**H7366**

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Brand	Item No.
Type 29					
BlueFire					
4"	⅝"	15,300	36, 40, 60, 80	Norton	**H7304**
4½"	⅝"-11	13,300	36, 40, 60, 80	Norton	**H7426**
	⅞"	13,300	24, 36, 40, 60, 80	Norton	**H7428**
5"	⅝"-11	12,000	36, 40, 60, 80	Norton	**H7379**
	⅞"	12,000	24, 36, 40, 60, 80	Norton	**H7381**
6"	⅞"	10,200	24, 36, 40, 60, 80	Norton	**H7383**
7"	⅝"-11	8600	36, 40, 60, 80	Norton	**H7386**
	⅞"	8600	24, 36, 60, 80	Norton	**H7388**
GA					
4"	⅝"	15,300	60	GA	**J7234**
5"	⅞"	12,000	60	GA	**447R68**
Tiger®					
4"	⅝"	15,000	36, 60	Weiler	**H7357**
	⅝"	15,000	36, 60	Weiler	**H7355**
4½"	⅝"-11	13,000	36, 60, 80	Weiler	**H7374**
	⅝"-11	13,000	40, 60, 80	Weiler	**H7373**
	⅞"	13,000	24, 36, 60, 80	Weiler	**H7339**
	⅞"	13,000	40, 60, 80	Weiler	**H7337**
5"	⅝"-11	12,000	40, 80	Weiler	**H7342**
6"	⅝"-11	10,200	40, 60, 80	Weiler	**H7343**
	⅞"	10,200	40, 60, 80	Weiler	**H7344**
7"	⅝"-11	8600	80	Weiler	**H7349**
	⅞"	8600	24, 36, 60	Weiler	**H7352**
Tiger Paw™					
4½"	⅝"-11	13,000	40, 60, 36, 80	Weiler	**H7367**
	⅞"	13,000	36, 40, 60, 80	Weiler	**H7361**
5"	⅝"-11	12,000	36, 40, 80	Weiler	**H7364**
	⅞"	12,000	40, 60	Weiler	**H7365**
7"	⅞"	8600	60	Weiler	**H7370**

WEILER NORTON SAINT-GOBAIN GA GRAINGER APPROVED

Heavy-Duty Flap Discs

WEILER BIG CAT HIGH DENSITY

Zirconia alumina abrasive with phenolic backing. Enhanced conformability for curved and irregular surfaces. Contain 40% more flaps.

NORTON BLUEFIRE™

Zirconia alumina abrasive. Trimmable flexible blue plastic backing plate wears away with grinding to allow full use of the disc and conforms to uneven surfaces.

WEILER BOBCAT MINI

Zirconium grain with plastic backing. Ideal for tight spaces.

GA

Zirconia alumina grain with cloth-backing. Discs provide aggressive cutting and offer up to 40% longer life than standard flap discs.

WEILER TIGER PAW™

100% zirconia alumina discs are ideal for demanding applications such as edge grinding. Phenolic backing. High density discs contain 40% more flaps.

WEILER TIGER®

Wheels feature a high-performance, high-density zirconia alumina abrasive for outstanding grinding, and have 35% to 40% more flaps for longer wear. Available with aluminum, phenolic, or trimmable backing.



Cubitron II
No. H7327



Redheat®
No. H5957

3M NORTON SAINT-GOBAIN WEILER ARC ABRASIVES INC

High Performance Flap Discs

3M™ Cubitron™ II 967A—Precision ceramic grain for use on carbon and stainless steel. Cloth backing. Type 27 Giant flap discs are thicker and contain more abrasive material, to provide longer wear and longer service life.

Redheat®—Ceramic/zirconia alumina abrasive. Trimmable, flexible plastic backing plate wears away as flap disc grinds and is highly conformable.

Saber Tooth™—Ceramic/alumina discs with self-sharpening grain. Phenolic backing. For use with heat-sensitive materials, aluminum, stainless steel, inconel, and titanium. High Density disc contains 40% more flaps. Trimmable Back disc has nonmarking composite backing that will not damage work piece.

SG Blaze®—Ceramic alumina grain lasts longer when grinding stainless steel, cobalt, chrome, Inconel®, titanium, and other hard-to-grind metals. Trimmable, flexible plastic back plate wears away as flap disc grinds.

Tiger® X—Features 3X industry exclusive technology that combines an advanced grain anchoring system, dual flap design, and ceramic/zirconium cloth backing for fast grinding and long life.

ARC® PREDATOR®—Discs use a proprietary blend ceramic abrasive grain that is ideal for grinding mild and carbon steel. AP flap discs provide increased flap exposure for faster stock removal. Hard Edge flap discs are engineered with a compressed outer diameter for heavier and more aggressive use, similar to Type 29. Performance Coating improves cut and life by reducing loading and heat on soft metal applications.

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
Type 27							
3M™ Cubitron™ II 967A							
4½"	⅝"-11	13,300	40	Coarse	Ceramic	3M Cubitron II	**H7327**
	⅝"-11	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**H7327**
	⅞"	13,300	40	Coarse	Ceramic	3M Cubitron II	**H7328**
	⅞"	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**H7328**
5"	⅝"-11	12,000	40	Coarse	Ceramic Grain	3M Cubitron II	**448C30**
	⅝"-11	12,000	60	Medium	Ceramic Grain	3M Cubitron II	**448C33**
	⅝"-11	12,000	80	Medium	Ceramic Grain	3M Cubitron II	**448C34**
7"	⅝"-11	8600	40	Coarse	Ceramic	3M Cubitron II	**H7329**
	⅝"-11	8600	60	Medium	Ceramic	3M Cubitron II	**H7329**
	⅝"-11	8600	80	Medium	Ceramic Grain	3M Cubitron II	**448C57**
	⅞"	8600	40	Coarse	Ceramic	3M Cubitron II	**H7330**
	⅞"	8600	60	Medium	Ceramic Grain	3M Cubitron II	**448C63**
	⅞"	8600	60, 80	Medium	Ceramic	3M Cubitron II	**H7330**
	⅞"	8600	80	Medium	Ceramic Grain	3M Cubitron II	**448C64**
3M™ Cubitron™ II 967A Giant							
4½"	⅝"-11	13,300	40	Coarse	Ceramic	3M Cubitron II	**J1554**
	⅝"-11	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**J1554**
	⅞"	13,300	40	Coarse	Ceramic	3M Cubitron II	**J1555**
	⅞"	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**J1555**
5"	⅞"	12,000	40	Coarse	Ceramic	3M Cubitron II	**J1558**
	⅞"	12,000	60	Medium	Ceramic	3M Cubitron II	**J1558**
7"	⅝"-11	8600	40	Coarse	Ceramic	3M Cubitron II	**J1561**
	⅝"-11	8600	60	Medium	Ceramic	3M Cubitron II	**J1561**
3M™ Cubitron™ II 969F							
4½"	⅝"-11	13,300	40	Coarse	Ceramic Grain	3M Cubitron II	**448D58**
	⅝"-11	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448D59**
	⅞"	13,300	40	Coarse	Ceramic Grain	3M Cubitron II	**448D61**
	⅞"	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448D62**
	⅞"	13,300	80	Medium	Ceramic Grain	3M Cubitron II	**448D63**
5"	⅝"-11	12,100	40	Coarse	Ceramic Grain	3M Cubitron II	**448D52**
	⅝"-11	12,100	60	Medium	Ceramic Grain	3M Cubitron II	**448D55**
	⅝"-11	12,100	80	Medium	Ceramic Grain	3M Cubitron II	**448D56**
	⅞"	12,100	60	Medium	Ceramic Grain	3M Cubitron II	**448F16**
7"	⅝"-11	8500	40	Coarse	Ceramic Grain	3M Cubitron II	**448D64**
	⅝"-11	8500	60	Medium	Ceramic Grain	3M Cubitron II	**448D65**
	⅝"-11	8500	80	Medium	Ceramic Grain	3M Cubitron II	**448D66**
	⅞"	8500	40	Coarse	Ceramic Grain	3M Cubitron II	**448D67**
	⅞"	8500	60	Medium	Ceramic Grain	3M Cubitron II	**448D68**
	⅞"	8500	80	Medium	Ceramic Grain	3M Cubitron II	**448D69**
Redheat®							
4½"	⅝"-11	13,300	40	Coarse	Ceramic	Norton	**H5952**
	⅝"-11	13,300	60, 80	Medium	Ceramic	Norton	**H5952**
	⅞"	13,300	36	Extra Coarse	Ceramic	Norton	**H5957**
	⅞"	13,300	40	Coarse	Ceramic	Norton	**H5957**
	⅞"	13,300	60, 80	Medium	Ceramic	Norton	**H5957**
	⅞"	13,300	120	Fine	Ceramic	Norton	**H5957**
5"	⅝"-11	12,000	40	Coarse	Ceramic	Norton	**H5962**
	⅝"-11	12,000	60, 80	Medium	Ceramic	Norton	**H5962**
6"	⅝"-11	10,200	40	Coarse	Ceramic	Norton	**H5969**
7"	⅝"-11	8600	40	Coarse	Ceramic	Norton	**H5977**
	⅝"-11	8600	80	Medium	Ceramic	Norton	**H5977**
	⅝"-11	8600	120	Fine	Ceramic	Norton	**H5977**

CONTINUED

CONTINUED

3M | NORTON SAINT-GOBAIN | WEILER | ARC ABRASIVES INC

High Performance Flap Discs

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
Saber Tooth™ - High Density							
4½"	⅝"-11	13,000	40	Coarse	Ceramic	Weiler	**J1568**
	⅝"-11	13,000	60, 80	Medium	Ceramic	Weiler	**J1568**
	⅞"	13,000	40	Coarse	Ceramic	Weiler	**J1573**
	⅞"	13,000	60, 80	Medium	Ceramic	Weiler	**J1573**
7"	⅝"-11	8600	40	Coarse	Ceramic	Weiler	**J1574**
	⅝"-11	8600	60, 80	Medium	Ceramic	Weiler	**J1574**
	⅞"	8600	40	Coarse	Ceramic	Weiler	**J1575**
	⅞"	8600	60, 80	Medium	Ceramic	Weiler	**J1575**
SG Blaze®							
4½"	⅝"-11	13,300	40	Coarse	Ceramic	Norton	**H5953**
	⅝"-11	13,300	60, 80	Medium	Ceramic	Norton	**H5953**
	⅝"-11	13,300	120	Fine	Ceramic	Norton	**H5953**
	⅞"	13,300	40	Coarse	Ceramic	Norton	**H5958**
	⅞"	13,300	60, 80	Medium	Ceramic	Norton	**H5958**
	⅞"	13,300	120	Fine	Ceramic	Norton	**H5958**
5"	⅝"-11	12,000	40	Coarse	Ceramic	Norton	**J5404**
	⅝"-11	12,000	60, 80	Medium	Ceramic	Norton	**J5404**
	⅞"	12,000	40	Coarse	Ceramic	Norton	**J5405**
	⅞"	12,000	80	Medium	Ceramic	Norton	**J5405**
	⅞"	12,000	120	Fine	Ceramic	Norton	**H5967**
6"	⅝"-11	10,200	40	Coarse	Ceramic	Norton	**J5402**
	⅝"-11	10,200	60, 80	Medium	Ceramic	Norton	**J5402**
	⅞"	10,200	40	Coarse	Ceramic	Norton	**J5403**
	⅞"	10,200	60, 80	Medium	Ceramic	Norton	**J5403**
7"	⅝"-11	8600	40	Coarse	Ceramic	Norton	**J5408**
	⅝"-11	8600	60, 80	Medium	Ceramic	Norton	**J5408**
	⅝"-11	8600	120	Fine	Ceramic	Norton	**H5978**
	⅞"	8600	40	Coarse	Ceramic	Norton	**H5983**
	⅞"	8600	40	Coarse	Ceramic	Norton	**J5409**
	⅞"	8600	60, 80	Medium	Ceramic	Norton	**H5983**
	⅞"	8600	60, 80	Medium	Ceramic	Norton	**J5409**
	⅞"	8600	120	Fine	Ceramic	Norton	**H5983**
Tiger® X							
4½"	⅝"-11	13,000	40	Coarse	Zirconia Alumina	Weiler	**J1588**
	⅝"-11	13,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1588**
	⅞"	13,000	40	Coarse	Zirconia Alumina	Weiler	**J1587**
	⅞"	13,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1587**
7"	⅝"-11	8600	40	Coarse	Zirconia Alumina	Weiler	**J1590**
	⅝"-11	8600	60, 80	Medium	Zirconia Alumina	Weiler	**J1590**
	⅞"	8600	40	Coarse	Zirconia Alumina	Weiler	**J1589**
	⅞"	8600	60, 80	Medium	Zirconia Alumina	Weiler	**J1589**
Type 29							
3M™ Cubitron™ II 967A							
4½"	⅝"-11	13,300	40	Coarse	Ceramic	3M Cubitron II	**H7331**
	⅝"-11	13,300	40	Coarse	Ceramic Grain	3M Cubitron II	**448C65**
	⅝"-11	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**H7331**
	⅝"-11	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448C66**
	⅞"	13,300	40	Coarse	Ceramic	3M Cubitron II	**H7332**
	⅞"	13,300	60, 80	Medium	Ceramic	3M Cubitron II	**H7332**
5"	⅝"-11	12,000	60	Medium	Ceramic Grain	3M Cubitron II	**448C32**
	⅝"-11	12,000	80	Medium	Ceramic Grain	3M Cubitron II	**448C35**
	⅞"	12,000	60	Medium	Ceramic Grain	3M Cubitron II	**447Z68**
	⅞"	12,000	80	Medium	Ceramic Grain	3M Cubitron II	**447Z69**
7"	⅝"-11	8600	40	Coarse	Ceramic	3M Cubitron II	**H7333**
	⅝"-11	8600	60	Medium	Ceramic Grain	3M Cubitron II	**448C58**
	⅝"-11	8600	80	Medium	Ceramic Grain	3M Cubitron II	**448C59**
	⅞"	8600	40	Coarse	Ceramic	3M Cubitron II	**H7325**
	⅞"	8600	60	Medium	Ceramic Grain	3M Cubitron II	**448C60**
	⅞"	8600	80	Medium	Ceramic Grain	3M Cubitron II	**448C61**
3M™ Cubitron™ II 969F							
4½"	⅝"-11	13,300	40	Coarse	Ceramic Grain	3M Cubitron II	**448D76**
	⅝"-11	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448D77**
	⅝"-11	13,300	80	Medium	Ceramic Grain	3M Cubitron II	**448D78**
	⅞"	13,300	40	Coarse	Ceramic Grain	3M Cubitron II	**448D79**
	⅞"	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448D80**
	⅞"	13,300	60	Medium	Ceramic Grain	3M Cubitron II	**448F05**
	⅞"	13,300	80	Medium	Ceramic Grain	3M Cubitron II	**448D81**
4"	⅜"-24	15,000	40	Coarse	Ceramic Grain	3M Cubitron II	**448D70**
	⅜"-24	15,000	60	Medium	Ceramic Grain	3M Cubitron II	**448D71**
	⅜"-24	15,000	80	Medium	Ceramic Grain	3M Cubitron II	**448D72**
	⅝"	15,000	40	Coarse	Ceramic Grain	3M Cubitron II	**448D73**
	⅝"	15,000	60	Medium	Ceramic Grain	3M Cubitron II	**448D74**
	⅝"	15,000	80	Medium	Ceramic Grain	3M Cubitron II	**448D75**
5"	⅝"-11	12,100	40	Coarse	Ceramic Grain	3M Cubitron II	**448D53**
	⅝"-11	12,100	80	Medium	Ceramic Grain	3M Cubitron II	**448D57**
	⅞"	12,100	40	Coarse	Ceramic Grain	3M Cubitron II	**448F14**
	⅞"	12,100	60	Medium	Ceramic Grain	3M Cubitron II	**448F15**
	⅞"	12,100	80	Medium	Ceramic Grain	3M Cubitron II	**448F18**
7"	⅝"-11	8500	40	Coarse	Ceramic Grain	3M Cubitron II	**448D82**
	⅝"-11	8500	60	Medium	Ceramic Grain	3M Cubitron II	**448D83**
	⅝"-11	8500	80	Medium	Ceramic Grain	3M Cubitron II	**448D84**
	⅞"	8500	40	Coarse	Ceramic Grain	3M Cubitron II	**448D85**
	⅞"	8500	60	Medium	Ceramic Grain	3M Cubitron II	**448D86**
	⅞"	8500	80	Medium	Ceramic Grain	3M Cubitron II	**448D87**
PREDATOR®, Fiberglass Backing							
7"	⅝"-11	8600	40, 50	Coarse	Ceramic	ARC Abrasives	**J1544**
	⅝"-11	8600	60, 80	Medium	Ceramic	ARC Abrasives	**J1544**
	⅝"-11	8600	120	Fine	Ceramic	ARC Abrasives	**J1544**
	⅞"	8600	60, 80	Medium	Ceramic	ARC Abrasives	**J1545**
	⅞"	8600	120	Fine	Ceramic	ARC Abrasives	**J1545**
PREDATOR® AP, Fiberglass Backing							
4½"	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J1542**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J1546**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**J1546**
	⅝-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF84**
	⅞"	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**J1549**
	⅞"	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J1547**
	⅞"	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J1549**
	⅞"	13,300	120	Fine	Ceramic	ARC Abrasives	**J1549**



SG Blaze®
No. H5953



Tiger X
No. J1589



PREDATOR® AP
No. J5339

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
PREDATOR® AP, Fiberglass Backing Performance Coated							
4½"	⅝-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF85**
	⅞"	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF86**
PREDATOR® AP, Trimmable Nylon Backing							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**45GF75**
PREDATOR® AP, Trimmable Nylon Backing Performance Coated							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**J5340**
PREDATOR® Hard Edge, Fiberglass Backing							
4½"	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J1543**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J1543**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**J1543**
	⅞"	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J1548**
	⅞"	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J1548**
	⅞"	13,300	120	Fine	Ceramic	ARC Abrasives	**J1548**
5"	⅝"-11	12,150	120	Fine	Ceramic	ARC Abrasives	**J1550**
	⅞"	12,150	36	—	Ceramic	ARC Abrasives	**J1551**
	⅞"	12,150	40	Coarse	Ceramic	ARC Abrasives	**J1551**
	⅞"	12,150	60, 80	Medium	Ceramic	ARC Abrasives	**J1551**
	⅞"	12,150	100, 120	Fine	Ceramic	ARC Abrasives	**J1551**
PREDATOR® Hard Edge, Trimmable Nylon Backing							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**45GF77**
PREDATOR® Hard Edge, Trimmable Nylon Backing Performance Coated							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300	40, 50	Coarse	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300	60, 80	Medium	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300	120	Fine	Ceramic	ARC Abrasives	**J5342**
Redheat®							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	Norton	**H7399**
	⅞"	13,300	40	Coarse	Ceramic	Norton	**H7400**
	⅞"	13,300	60	Medium	Ceramic	Norton	**H7400**
5"	⅞"	12,000	40	Coarse	Ceramic	Norton	**H7402**
6"	⅞"	10,200	40	Coarse	Ceramic	Norton	**H7403**
	⅞"	10,200	60	Medium	Ceramic	Norton	**H7403**
7"	⅝"-11	8600	36	Extra Coarse	Ceramic	Norton	**H7404**
	⅝"-11	8600	60	Medium	Ceramic	Norton	**J5411**
	⅞"	8600	36	Extra Coarse	Ceramic	Norton	**H7405**
	⅞"	8600	60, 80	Medium	Ceramic	Norton	**J5412**
	⅞"	8600	120	Fine	Ceramic	Norton	**H7405**
Saber Tooth™ - Phenolic Backed							
4½"	⅝"-11	13,000	36	Extra Coarse	Ceramic	Weiler	**H7371**
	⅝"-11	13,000	40	Coarse	Ceramic	Weiler	**H7371**
	⅝"-11	13,000	60, 80	Medium	Ceramic	Weiler	**H7371**
	⅞"	13,000	36	Extra Coarse	Ceramic	Weiler	**H7335**
	⅞"	13,000	40	Coarse	Ceramic	Weiler	**H7335**
	⅞"	13,000	60, 80	Medium	Ceramic	Weiler	**H7335**
7"	⅝"-11	8600	36	Extra Coarse	Ceramic	Weiler	**H7348**
	⅝"-11	8600	40	Coarse	Ceramic	Weiler	**H7348**
	⅝"-11	8600	60, 80	Medium	Ceramic	Weiler	**H7348**
	⅞"	8600	40	Coarse	Ceramic	Weiler	**H7350**
Saber Tooth™ - Trimmable Backed							
4½"	⅝"-11	13,000	40	Coarse	Ceramic	Weiler	**H7372**
	⅝"-11	13,000	60, 80	Medium	Ceramic	Weiler	**H7372**
	⅞"	13,000	40	Coarse	Ceramic	Weiler	**H7336**
	⅞"	13,000	60, 80	Medium	Ceramic	Weiler	**H7336**
SG Blaze®							
4½"	⅝"-11	13,300	36	Extra Coarse	Ceramic	Norton	**H7406**
	⅝"-11	13,300	40	Coarse	Ceramic	Norton	**H7406**
	⅝"-11	13,300	60, 80	Medium	Ceramic	Norton	**H7406**
	⅞"	13,300	36	Extra Coarse	Ceramic	Norton	**H7407**
	⅞"	13,300	40	Coarse	Ceramic	Norton	**H7407**
	⅞"	13,300	60, 80	Medium	Ceramic	Norton	**H7407**
5"	⅞"	12,000	80	Medium	Ceramic	Norton	**H7397**
7"	⅝"-11	8600	36	Extra Coarse	Ceramic	Norton	**H7409**
	⅝"-11	8600	40	Coarse	Ceramic	Norton	**H7409**
	⅝"-11	8600	60, 80	Medium	Ceramic	Norton	**H7409**
	⅞"	8600	36	Extra Coarse	Ceramic	Norton	**H7410**
	⅞"	8600	40	Coarse	Ceramic	Norton	**H7410**
	⅞"	8600	80	Medium	Ceramic	Norton	**H7410**
Tiger® X							
4½"	⅝"-11	13,000	36	Extra Coarse	Zirconia Alumina	Weiler	**J1583**
	⅝"-11	13,000	40	Coarse	Zirconia Alumina	Weiler	**J1583**
	⅝"-11	13,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1583**
	⅞"	13,000	36	Extra Coarse	Zirconia Alumina	Weiler	**J1582**
	⅞"	13,000	40	Coarse	Zirconia Alumina	Weiler	**J1582**
	⅞"	13,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1582**
5"	⅝"-11	12,000	40	Coarse	Zirconia Alumina	Weiler	**J1585**
	⅝"-11	12,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1585**
	⅞"	12,000	36	Extra Coarse	Zirconia Alumina	Weiler	**J1584**
	⅞"	12,000	40	Coarse	Zirconia Alumina	Weiler	**J1584**
	⅞"	12,000	60, 80	Medium	Zirconia Alumina	Weiler	**J1584**
7"	⅝"-11	8600	36	Extra Coarse	Zirconia Alumina	Weiler	**J1586**
	⅝"-11	8600	40	Coarse	Zirconia Alumina	Weiler	**J1586**
	⅝"-11	8600	60, 80	Medium	Zirconia Alumina	Weiler	**J1586**
	⅞"	8600	36	Extra Coarse	Zirconia Alumina	Weiler	**J1581**
	⅞"	8600	40	Coarse	Zirconia Alumina	Weiler	**J1581**
	⅞"	8600	60, 80	Medium	Zirconia Alumina	Weiler	**J1581**

Find more Flap Wheels at grainger.com/flapwheels


No. J0570

MERIT we know abrasives | NORTON SAINT-GOBAIN

Flap Wheels with Arbor Hole

For applications with metal, plastic, wood, fiberglass, and rubber. Use with portable drills, bench grinders, and air tools.

Merit—Aluminum oxide abrasive with standard cloth backing.

Merit Grind-O-Flex—High-performance aluminum oxide abrasive with upgraded cloth backing for longer life and higher productivity.

Norton NEON™—Premium aluminum oxide abrasive and heavy cotton backing is an economical choice for light and moderately demanding applications.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
⅝" Arbor Hole					
3½"	2"	60, 80, 120	12,000	Merit	**J0567**
4"	1"	60, 80, 120	12,000	Merit Grind-O-Flex	**J0570**
		180	12,000	Merit	**30C796**
5"		120	12,000	Norton NEON™	**J0559**
1" Arbor Hole					
6"	1"	40, 180	6000	Merit	**J0568**
		60, 80, 120	6000	Merit Grind-O-Flex	**J0571**
		80	6000	Norton NEON™	**J0563**
	1½	60, 80, 120	6000	Merit	**J0569**
		120	6000	Norton NEON™	**J0564**
	2"	60, 80, 120	6000	Merit Grind-O-Flex	**J0572**
		60, 80, 120	6000	Norton NEON™	**J0565**
		180	6000	Merit	**30C831**
8"	1"	60, 80, 120	4500	Merit Grind-O-Flex	**J0573**
		60, 120	4500	Norton NEON™	**J0566**

Description	Brand	Item No.
Bushings and Adapters		
¼" Adapter For Use With 3½" Diameter Wheels	Merit	**3DV22**
¼" Adapter For Use With 4-8" Diameter Wheels	Merit	**3DV23**


No. J0605

NORTON SAINT-GOBAIN | MERIT we know abrasives

Micro-Mini Mounted Flap Wheels

- ⅛"-dia. steel shank

Provide fast polishing and light deburring of internal work with holes or grooves as small as ⅜" and up to 1 3/16" dia.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
⅜"	⅜"	60, 80	40,000	Norton NEON™	**J0617**
		60, 80, 120, 180, 240, 320	40,000	Merit	**J0605**
⅝"	⅝"	60, 80	37,000	Merit	**J0614**
		80, 120	37,000	Norton NEON™	**J0619**
		120	37,000	Merit	**J0638**
	¾"	80, 120	37,000	Merit	**H1077**
¾"	⅜"	60, 80, 120	35,000	Merit	**J0611**
		80	35,000	Norton NEON™	**J0616**
	⅝"	60, 80, 120	35,000	Merit	**J0612**
	¾"	60, 80, 120	35,000	Norton NEON™	**J0615**
		60, 80, 120	35,000	Merit	**J0610**


Steel Shank
No. H6142


Threaded Shank
No. H6158

NORTON SAINT-GOBAIN | DEWALT | MERIT we know abrasives | GA GRAINGER APPROVED

Mounted Flap Wheels

- Available with ¼" x 1¼" steel shank or ¼-20 threaded shank

Designed for use with die grinders, portable drills, and air tools. The flaps wear away, continually exposing fresh abrasive and providing uniform finish and consistent cutting action. Flap wheels can conform to most shapes. Use for metal fabricating, blending welds, deburring, cleaning, and finishing.

Norton NEON™—An economical choice for cutting hard-to-grind materials such as aluminum, brass, stainless steel, carbon steel, and titanium. Coated aluminum oxide abrasive and heavy cotton backing. Shank is integrally mounted into the wheel.

DeWalt®—An excellent choice for surface finishing and preparation, and edge blending and chamfering applications on ferrous metals and stainless steel. High-performance aluminum oxide grit and premium cloth backing.

Merit—Shape to fit any desired contour, even a compound radius. Hardened steel mandrel permanently mounted in epoxy core.

GA—Premium aluminum oxide grain is specially treated for high performance. Resin over resin for optimum cutting action and wear out pattern. Specially designed cloth backing with synthetic processing for a good combination of flexibility and sturdiness.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
¼" x 1¼" Steel Shank					
¾"	¾"	60, 80, 120	25,000	DeWalt	**H6142**
		180	35,000	Norton NEON™	**H6131**
1"	½"	60, 80, 120	25,000	DeWalt	**H6143**
	⅝"	40, 60, 120	30,000	Merit	**J0641**
		60	30,000	Norton NEON™	**H6132**
		80	30,000	Norton NEON™	**H6151**
	1"	40, 60, 80, 120, 180, 240	25,000	DeWalt	**H6144**
		40, 60, 80, 120, 180, 320	30,000	Merit	**J0639**
	1	40, 240	30,000	GA	**J7235**
	1"	60, 80, 120, 180	30,000	Merit	**J0624**
1⅜"	⅝"	60, 80, 120	30,000	Merit	**H6158**
1½"	½"	60, 80, 120	25,000	Merit	**J0625**
	1"	40, 60, 80, 120, 240	25,000	DeWalt	**H6145**
	1	40, 80, 180	25,000	GA	**J7236**
	1"	60, 80, 120, 240	25,000	Merit	**J0642**
		120	25,000	Norton NEON™	**H6154**
	1½"	40, 60, 80, 120	25,000	Merit	**J0643**
1⅝"	½"	60, 120, 180	25,000	Merit	**J0626**
2"	0.5	80	25,000	GA	**447T07**
	½"	40, 60, 80, 180	25,000	DeWalt	**H6146**
		60	25,000	Norton NEON™	**H6155**
		60, 120	25,000	Merit	**H7305**
		80, 120, 180	25,000	Merit	**J0631**
		180	25,000	Norton NEON™	**H6135**
	¾"	60, 80, 120	25,000	DeWalt	**H6147**
	1"	40, 60, 80, 120	25,000	DeWalt	**J0621**
		40, 60, 80, 120, 180, 320	25,000	Merit	**J0645**
	1	40, 60, 80, 180, 240	25,000	GA	**J7237**
	1"	60, 80, 120	25,000	Merit	**H6159**
	1.5	60	25,000	GA	**447R99**
	1"	180	25,000	Norton NEON™	**H6136**
	1½"	80, 120	25,000	Norton NEON™	**H6137**
		80, 120	25,000	Merit	**J0646**
2½"	1"	40, 60, 80, 120	25,000	DeWalt	**H6148**
	1	60	20,000	GA	**447T01**
3"	0.5	80	20,000	GA	**447T08**
	½"	40, 60, 80, 120, 180	20,000	DeWalt	**H6149**
		40, 60	20,000	Merit	**H7376**
		60, 120, 180	20,000	Merit	**J0635**
	1"	40, 60, 80, 120, 180, 240	20,000	DeWalt	**H6150**
	1	60, 80	20,000	GA	**J7238**



No. 3RB86

MERIT
we know abrasives

Flap Wheel Kits

Mandrel-Mounted Mini Grind-O-Flex Kit—Includes 10 wheels, 1" to 3" dia., with various grit sizes. Each wheel has ¼" mandrel.

Mini Grind-O-Flex Test Kit—Includes 10 wheels, 1" to 3" dia., and ¼" quick-change adapter. Each wheel has ¼-20 thread.

Description	Mfr. Model	Item No.
Mandrel Mounted Mini Grind-O-Flex Test Kit "CMM"	08834138006	**3RB87**
Mini Grind-O-Flex Test Kit "CQ"	08834138003	**3RB86**



No. 3RB91

MERIT
we know abrasives

DEWALT

Interleaf Mounted Flap Wheels

- Flexible and conformable
- ¼" dia. shank

Premium aluminum oxide abrasive and nonwoven cloth provide excellent performance and long wheel life for material finishing and surface preparation applications.

Dia.	Abrasive Grit	Abrasive Grade	Max. RPM	Item No.
Merit				
1"	240	Very Fine	30,000	**464P81**
2"	60	Coarse	25,000	**464P82**
	80	Coarse	25,000	**464P83**
	120	Medium	12,000	**3RB91**
		Medium	25,000	**464P84**
	180	Fine	12,000	**3RB92**
	320	Very Fine	12,000	**3RB93**
3"	60	Coarse	20,000	**464P85**
		Coarse	20,000	**464P92**
	120	Medium	12,000	**3RB94**
		Medium	20,000	**464P86**
	180	Fine	12,000	**3RB95**
	240	Very Fine	20,000	**464P87**
4"	120	Very Fine	12,000	**464P80**
DeWalt®				
2"	60	Coarse	12,000	**6TMT9**
	100	Medium	12,000	**6TMU0**
	150	Medium	12,000	**6TMU1**
3"	60	Coarse	8000	**6TMU2**
	100	Medium	8000	**6TMU3**
	150	Medium	8000	**6TMU4**



Spiral Roll
No. H6018



Cartridge Roll
No. H6024

MERIT
we know abrasives

Spiral Rolls and Cartridge Rolls

- ⅛" arbor hole

Use spiral rolls for grinding and polishing channels, fillets, and radii and deburring small holes. Use cartridge rolls for flash removal, polishing, or removing machine tool marks and edge breaking.

Dia.	L	▶CHOOSE: Grit	Item No.
Spiral Rolls			
⅜"	1"	60, 80, 120	**H6018**
½"	1"	60, 80, 120	**H6020**
	1½"	60, 80, 120	**H6022**
Cartridge Rolls			
⅜"	1"	60, 80, 120	**H6024**
½"	1½"	60, 80, 120	**H6026**
¾"	1½"	60, 80, 120	**H6028**
Accessory			
Threaded Mandrel ¼"			**3RB82**



B-305 Series

B-405 Series



Extension Mandrel
No. 3RB59



Mandrel
No. 3RB57

MERIT
we know abrasives

Alo Resin Bond Bore Polishers

- As flaps wear, fresh abrasive is constantly exposed
- Finish a range of interior diameter sizes without changing polisher

Self-centering polishers apply equal pressure to full wall of interior diameter. Spring-action design provides fast cleaning, deburring, and polishing of interior diameter of cylinders, deep tubes, and hydraulic fittings. Flaps adjust automatically to interior diameter, polishing the entire surface area with each pass. Equal spacing between packs of abrasive flaps eliminates heat buildup.

Series	Min. Inner Dia.	Max. Inner Dia.	▶CHOOSE: Grit	Max. RPM	Item No.
Bore Polishers					
B-305	⅝"	1"	60, 80, 120, 180	25,000	**H6015**
B-405	1"	1½"	60, 80, 120, 180	22,000	**H6016**
B-410	1½"	2"	60, 80, 120, 180	20,000	**H6017**
B-8	5¼"	5⅞"	60	8000	**464P72**
B-8	5¼"	5⅞"	180	8000	**464P73**
B-8	5¼"	5⅞"	240	8000	**464P74**

	Pilot Length	Mfr. Model	Item No.
Extension Mandrels, ¼" Shank			
	4"	08834154463	**3RB59**
	6"	08834154186	**3RB60**
	8"	08834154465	**3RB61**

Thread Size	For Use With	Mfr. Model	Item No.
Mandrels			
5/16" - 18"	B3 Series Bore Polisher	08834154460	**3RB56**
¼" - 20"	B4/B8 Series Bore Polisher	08834154461	**3RB57**



Spiral Bands



Rubber Drum

MERIT
we know abrasives

Spiral Bands and Expanding Rubber Drums

Fast-cutting spiral bands remove tough material. Achieve close tolerances when finishing curved, contoured, or hard-to-reach areas. Maximum rpm is determined by rpm rating of expanding rubber drum. Use rubber drums to provide backing support for spiral bands. Steel shank enables use of straight shaft and right-angle grinders.

Drum Sanding Kit includes 6 sizes of drums: ½" x ½", ¾" x 1", 1" x 1", 1½" x 1½", 2" x 2½", and 3" x 3", with 1 medium 80 grit and 1 fine 120 grit aluminum oxide abrasive sleeve to fit each drum size.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Item No.
Spiral Bands				
½"	½"	120, 80, 50	30,000	**H6030**
¾"	1"	80, 120, 50	17,000	**H6031**
1"	1"	36, 80, 120, 50	18,000	**H6033**
1½"	1½"	60, 36, 80	10,000	**H6035**
2"	1"	80, 120	11,000	**H6037**
3"	3"	36	3,000	**3DV68**

Dia.	W	Shank Size	Max. RPM	Item No.
Expanding Rubber Drums				
¾"	1"	¼"	17,000	**3X040**
1"	1"	¼"	18,000	**3X042**
1½"	1½"	¼"	10,000	**3X044**
2"	1"	¼"	11,000	**3X046**
3"	3"	⅜"	3000	**3X048**
Drum Sand Rubbering Kit				
18-Pc. Drum Sanding Kit				**3DV67**



Fine
No. 2D451

NORTON SAINT-GOBAIN

Conformable Flap Wheels

- Aluminum oxide abrasive
- Max. RPM: 12,000

Bear-Tex® wheels are designed for use on die grinders, in polishing and finishing applications on uneven or irregular surfaces. Made of nonwoven nylon web impregnated with abrasive grain.

Dia.	W	Shank Size	Item No.
Fine			
2"	1"	¼"	**2D449**
3"	1"	¼"	**2D451**
Very Fine			
2"	1"	¼"	**2D450**
3"	1"	¼"	**2D452**

3M

3" Dia. Flap Brushes and Wheels

Scotch-Brite™ brushes remove handling marks and surface imperfections and are ideal for decorative finishes and light deburring. Combi-S Wheels provide an aggressive cut and fine finish. Made of alternating flaps of aluminum oxide-coated abrasives and Scotch-Brite web.



Mandrel Mount
No. 6RV96

Description	W	Abrasive Type	Abrasive Material	Grade	Max. RPM	Item No.
Scotch-Brite™						
Mounted Flap Wheel, ¼" Shank	1¾"	Non-Woven	Aluminum Oxide	Medium	9000	**4ZR48**
			Silicon Carbide	Fine	8500	**4ZT02**
Mounted Flap Wheel, ¼" Mounting Hole	1¼"		Aluminum Oxide	Medium	10,000	**6RV96**
Combi-S Wheel, Scotch-Brite™						
¼" Shank	1¾"	Coated	Aluminum Oxide	Medium	8000	**6TV94**
				Fine	8000	**6TV53**



T-A
No. 6RZ22



T-C
No. 1ED43

3M

Radial Bristle Brushes with Adapters

- Ceramic aluminum oxide abrasive
- Max. RPM: 6,000

Scotch-Brite™ brushes yield faster cut rates; flexible, abrasive-filled bristles provide fresh abrasive to the work surface for uniform finishes and conform to workpiece surface without damaging base material. Excellent replacements for wire brushes. Use on bench motors for general purpose cleaning applications. Include ⅜", ½", ⅝", and ¾" adapters.

Brush Type	Dia.	Mounting Type	Mounting Size	Grit	Color	Item No.
T-A						
Clean and Deburr	6"	Arbor Hole	⅜", ½", ⅝", or ¾"	36	Brown	**6RZ20**
			⅜", ½", ⅝", or ¾"	50	Green	**6RZ21**
			⅜", ½", ⅝", or ¾"	80	Yellow	**6RZ22**
T-C						
Curved Bristles	6"	Arbor Hole	⅜", ½", ⅝", or ¾"	80	Yellow	**1ED43**
			⅜", ½", ⅝", or ¾"	120	White	**1ED44**
			⅜", ½", ⅝", or ¾"	220	Red	**1ED45**

3M

Coating Removal Discs

4½" Disc



- Silicon carbide abrasive
- Extra-coarse grade

Heavy-duty Scotch-Brite™ discs are made for right-angle tools. The semiopen web construction and nonloading design are ideal for removing rust and coatings from metal surfaces. Hook-and-loop backing easily attaches to 3M™ disc pad holders, see page 2374.

Disc Diameter	Max. RPM	Mfr. Model	Item No.
4½"	12,000	CR-DH	**1DXP2**
7"	6000	CR-DH	**1DXP7**



No. 4VV46



No. 6PZ17

NORTON SAINT-GOBAIN

Sanding Discs and Depressed Center Wheels

An open web of synthetic fibers and abrasive bond with smear-resistant resin help these wheels provide quick cleaning and conditioning without loading; easily clean uneven surfaces and difficult part profiles. Use to remove surface rust and residue, corrosion, light weld splatter, dirt, mill scale, paint, and epoxy. Prepare surfaces prior to welding or coating application. Clean and condition after welding.

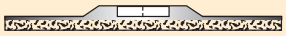
Rapid Prep disc can be used in place of, or in sequence with fiber and flap discs to clean, polish, and finish. Rapid Blend discs and wheels have fine grain particles for cleaning, polishing, and final finishing. Rapid Strip discs and wheels have a coarse abrasive for quick cleaning. Blaze Rapid Strip wheels can strip coatings and finish with the same disc.

Abrasive Type	Disc Attachment System	Disc Attachment Type	Disc Diameter	Abrasive Grade	Abrasive Material	Max. RPM	Item No.
Fiber Disc							
Rapid Strip							
Non-Woven	—	—	6"	Extra Coarse	Silicon Carbide	5500	**6PX92**
Quick Change Disc							
Rapid Blend							
Non-Woven	TR Roll-On/Off	Type 3	3"	Medium	Aluminum Oxide	18,100	**16Z963**
Rapid Strip							
Non-Woven	TR Roll-On/Off	Type 3	2"	Extra Coarse	Silicon Carbide	15,500	**4VV46**
	TR Roll-On/Off	Type 3	3"	Extra Coarse	Silicon Carbide	12,000	**4VV47**
	TR Roll-On/Off	Type 3	3"	Extra Coarse	Ceramic	12,000	**16Z960**

Abrasive Wheel Type	Abrasive Wheel Diameter	Thickness	Arbor Hole Size	Abrasive Material	Grit	Max. RPM	Item No.
Depressed Center Wheels							
Blaze Rapid Strip							
Type 27	4½"	1"	⅝"-11	Ceramic	60	12,000	**16Z953**
	4½"	1"	⅞"	Ceramic	60	12,000	**16Z954**
Rapid Blend							
Type 27	4½"	½"	⅞"	Silicon Carbide	320 to 400	12,000	**2KND7**
	4½"	½"	⅞"	Aluminum Oxide	180-360	12,000	**2KND8**
Rapid Prep							
Type 27	4½"	½"	⅞"	Aluminum Oxide	150-180	12,000	**2KNE1**
Rapid Strip							
Type 27	4½"	½"	⅝"-11	Silicon Carbide	24-36	12,000	**6PZ17**
	4½"	½"	⅞"	Silicon Carbide	24-36	12,000	**6PZ19**
	7"	½"	⅝"-11	Silicon Carbide	24-36	6600	**6PZ20**
	7"	½"	⅞"	Silicon Carbide	24-36	6600	**6PZ18**

Grinding and Cut-Off Wheels Reference Guide





TYPE 1	TYPE 27
Straight wheels designed for cut-off applications	Essentially straight wheels that have a "depressed center/raised hub". Different types of fiberglass reinforcement mesh give the product stability for use on the periphery, on the face, or a combination of the two.

WHEEL TYPE	THICKNESS	APPLICATION	90° Angle	15° to 30° Angle	15° Angle
TYPE 1	0.035", 0.040", 0.045", 1/16"	Where fast cutting and low kerf loss are desired	X		
	0.125"	For tough cutting and notching applications where stability is important	X		
TYPE 27	0.40", 0.45" 1/16"	Cutting only, where fast cutting and low kerf loss are desired	X		
	0.90", 0.125", 3/32"	For tough cutting and notching applications where stability is important; cutting and cleaning burr-free narrow root pass welds	X		
	1/8"	For multiple applications ranging from cutting-off and notching to light-duty side grinding	X	X	
	1/4"	For heavy-duty to light grinding on the bottom/face of the wheel		X	

GENERAL PURPOSE - SILICON CARBIDE

DEWALT
C24R - Silicon carbide grain for long wheel life. For concrete, cast iron, ductile iron, and other masonry materials.
C60T - Premium silicon carbide for aggressive cutting action. Heavy duty for concrete and other masonry materials. Fast burr-free cutting.

NORTON
Norton Masonry/Masonry RightCut - Silicon carbide for masonry applications.

HEAVY-DUTY - ZIRCONIA

DEWALT
Extended Performance Z24R - Premium tough zirconia grain for extended life and material removal. Heavy duty for ferrous metals and stainless steel.
Extended Performance Z60T - Specially treated grain combination for aggressive cutting action. Extended performance, fast, burr-free cutting in all types of ferrous metals and stainless steel.

NORTON
BlueFire - Mix of zirconia and premium aluminum oxide grain. For use with stainless steel, carbon steel, alloys, and gray iron.
BlueFire Fast Cut/INOX - Contains <.1% iron, sulfur, or chlorine for contaminant free grinding.
BlueFire Foundry/Foundry HD - Zirconia alumina/silicon carbide abrasive blend and an exceptionally strong reinforcement structure. Ideal choice for aggressive, foundry applications.
BlueFire Right Cut - Longer life and faster cut rate. Less pressure required for first cut. For cutting only.

UNITED ABRASIVES – SAIT
The Ultimate Combo™ Z-tech™ - High performance, tough zirconium grain, Cutting, notching, deburring, and light grinding for the toughest applications. For use with stainless steel and ferrous metals.
Z-Tech™ - Special zirconium grain formula. Fast, non-binding cutting. For use with ferrous metals, stainless steel, and high tensile alloys.

HIGH PERFORMANCE - CERAMIC AND CERAMIC BLEND

3M
Cubitron™II - 3M precision shaped grain for ultra fast cut and long life. Cuts with less pressure. Specially formulated for stainless and mild steel.
High Performance - A blend of 3M precision shaped ceramic grain and conventional abrasive provides fast cut and long life. Specially formulated for stainless and mild steel.
Silver - 3M precision shaped grain cuts extremely quickly through stainless steel and carbon steel pipes, tube, flat sheets, and more.

NORTON
NorZon Plus - Combination of Norton SG ceramic alumina and Norzon zirconia alumina with advanced bond system. Lowest total grinding cost; highest productivity. Offer the best option when the best combination of life, cut rate, and lowest heat generation is a primary concern.
NorZon Plus Foundry - Designed to withstand the most aggressive foundry applications.
NorZon Plus Long Life - Best option when longest possible life is primary concern, rough grinding conditions require wheel durability, using high cycle, high horsepower grinders and low labor cost are key.
NorZon Plus RightCut - Noticeably longer life and faster cut rate. Less pressure required. For cutting only.

UNITED ABRASIVES – SAIT
Saitech Ultimate Performance™ - High performance, ceramic aluminum oxide grain, Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut, Combines fast cutting with extremely long life for tough cutting applications. For ferrous metals and stainless steel. Ideal for foundry applications (gates, risers).
Saitech™ - High performance, ceramic aluminum oxide grain. Extremely fast stock removal on hard metals with minimal pressure.

GENERAL PURPOSE - ALUMINUM OXIDE

DEWALT
A24R - Aluminum oxide grain for long life and high material removal. Heavy duty for ferrous metals.
A30N- Aluminum oxide grain combination for long wheel life. Fast material removal without loading. For use with aluminum and other non-ferrous materials.
A30S - Aluminum oxide grain for long life and high material removal. Free of iron, sulfur, and chlorine for contaminant free grinding and cutting. Ideal for use in nuclear and food applications.
A36T - Heavy duty cutting in all types of ferrous metal and stainless steel. Fast aggressive cutting in tough applications.
A60S - Proprietary aluminum oxide grain combination for aggressive cutting action. Free of iron, sulfur, and chlorine for contaminant free cutting. Used for cutting stainless steel and other high strength alloys. Ideal in nuclear and food applications.
A60T - Heavy duty cutting in all types of ferrous metal and stainless steel. Clean smooth cutting and long wheel life.
Metal AO - Softer formulation for fast cutting. Quickly cuts rebar, pipe, sheet metal, structural steel and stainless steel.
Mini Hub HP™ - Allows for more cuts per wheel vs. starndard hub design. Fast tool-free wheel changes. Use for a wide range of metal cutting applications.

NORTON
Gemini - Good choice for steel and ferrous metals as well as specialty applications in aluminum and foundries. Quality aluminum oxide provides consistent performance.
Gemini 1-2-3 - For cutting, notching, and grinding.
Gemini Aluminum - Grind aluminum and softer metals without loading. Contains no wax or rubber fillers.
Gemini Fast Cut - Fastest cutting option when speed of completion is the primary concern.
Gemini Flexible - Unique formulation for better blending, finishing and polishing of stainless steel, structural steel, cast iron welds and burrs. Meets nuclear industry standards.
Gemini Free Cut - Use a more flexible binder than the Long Life wheel, for faster cutting on low-horsepower machines.
Gemini Long Life - Longest lasting when the longest possible wheel life is the primary concern.
Gemini RightCut - Precise cutting; more stability and a narrower pass. Requires less pressure, providing increased operator comfort.
Gemini RightCut Aluminum - Specially formulated for aluminum applications.
Gemini Stainless Steel - For contaminant free grinding.
Gemini XXL/XXL Pipefitter - Best on hard grade carbon steel applications, weld repairs, flashing, and any job that requires quick turn around.
Norton Metal/Metal RightCut - Aluminum for steel/ferrous metal applications.

UNITED ABRASIVES – SAIT
A24N - Fast grinding, aluminum oxide grain, soft bond for fast stock removal. For ferrous metals and low grade stainless steel.
A24R - Long life, aluminum oxide grain, general purpose. For ferrous metals.
A24T - Aluminum oxide grain, hard bond designed for edge and bevel grinding and other applications where a harder wheel is preferred. Longer life for fewer wheel changes. For ferrous metals.
A36T - Fast cutting, aluminum oxide grain. Hard bond for aggressive cutting on rough applications. For ferrous metals and stainless steel.
A46N - Aluminum oxide grain, soft bond for aggressive cutting without loading. For use with nonferrous metals and aluminum.
A60S - Special aluminum oxide grain, hard bond for extremely long life. Fast, burr-free cutting for ferrous metals.
A60T - Aluminum oxide grain, hard bond for smooth cutting. Burr-free cutting for ferrous metals and stainless steel. For use in nuclear, aerospace, automotive, foundry industries, and plant maintenance.
Challenger 3™ - Semi-Flexible, grind and blend welds in one step. Open pattern on wheel for cool grinding and blending. For metals, stainless steel, and aluminum. Contaminant Free - Safe for use in the nuclear industry.
SAIT.M.X.™ - Special bond for cutting sheet metal and other thin gauge metals. Fast, burr-free cutting for stainless steel.
The Ultimate Combo™ A60S - General purpose, aluminum oxide grain. Provides consistent performance with long life for cutting, notching, deburring, and light grinding. For use with ferrous metals.
The Ultimate Cut™ - Cutting a wide range of stainless thin and thick gauge, flat stock, bar stock, square tubing, etc. Exceptional cutting performance on metal and aluminum.
XA24Q - Contaminant free. Specially formulated for nuclear and food processing plants. Free of iron, chlorine and sulfur compounds (Fe + Cl + S <0.1%). For use with stainless steel and other high tensile alloys and ferrous metals.
XA46R - Contaminant free. Specially formulated for nuclear and food processing plants. Free of iron, chlorine and sulfur compounds (Fe + Cl + S < 0.1%). For use with stainless steel and other high tensile alloys.

NORTON
SAINT-GOBAIN

Type 1 Toolroom Cut-Off Wheels

Designed for use on fixed machinery and preengineered for maximum versatility in toolroom cutting applications. Excellent for cutting off drill bits, steel bars, and tubing; salvaging tools; and slotting workpieces.

NOTE: Refer to Reference Guide for more detailed information on wheel types.

Dia.	Thickness	Arbor Hole	Grit	Max. RPM	Item No.
57A					
2½"	0.0625"	⅜"	70	30,560	4DDU2
7"		⅝"	36	8730	4DDU7
		⅞"	36	8730	4DDU8
10"	0.060"	⅝"	46	4585	3UP21
	0.090"	⅝"	60	4585	4DDV4
A60					
1½"	0.035"	1/16"	60	40,745	4DDT9
		⅛"	60	40,745	4DDU1
3"	0.060"	¼"	60	25,465	4DDU3
		⅜"	60	25,465	4DDU4
4"	0.035"	¼"	60	19,100	6PG88
	0.040"	⅜"	60	19,100	4DDU5
6"	0.035"	⅜"	60	10,185	2D752
		½"	60	10,190	2D749
		⅝"	60	10,190	2D750
7"		⅝"	60	8730	2D754
		1¼"	60	8730	2D755



No. 3UP22

Dia.	Thickness	Arbor Hole	Grit	Max. RPM	Item No.
8"	0.060"	½"	60	7640	2D758
		⅝"	60	7640	2D756
		1¼"	60	7640	2D757
10"		⅝"	60	6110	3UP22
		1¼"	60	6110	2D759



Gemini Right Cut
No. 5GC52



A36T
No. 5LUA1



A60T
No. 6HD43

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT | GRAINGER APPROVED

Type 1 General Purpose Cut-Off Wheels

- Aluminum oxide abrasive

For cutting and grinding ferrous metal, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Stainless					
Gemini	3"	0.0625"	3/8"	25,465	25TZ46
	6"	0.035"	5/8"	10,185	25TZ29
		0.0625"	5/8"	10,190	25TZ30
	7"	0.0625"	5/8"	8730	25TZ88
	8"	0.0625"	5/8"	7640	25UA03
Gemini Fast Cut	4"	0.125"	3/8"	19,100	5A929
Gemini Free Cut	2"	0.035"	1/8"	30,560	25TY97
		0.035"	1/4"	30,560	4F871
		0.035"	3/8"	30,560	4F872
		0.0625"	1/4"	30,560	4F873
		0.0625"	3/8"	30,560	4F874
		0.125"	1/4"	30,560	25TY98
		0.125"	3/8"	30,560	25TY99
	2½"	0.0625"	1/4"	30,560	4F875
		0.070"	3/8"	30,560	4F876
	3"	0.035"	1/4"	25,465	5A921
		0.035"	3/8"	25,465	5A922
		0.0625"	1/4"	25,465	5A923
		0.0625"	3/8"	25,465	5A924
		0.125"	1/4"	25,465	5A925
		0.125"	3/8"	25,465	5A926
	4"	0.035"	1/4"	19,100	4B166
		0.035"	3/8"	19,100	5A927
		0.0625"	1/4"	19,100	4B164
		0.0625"	3/8"	19,100	5A928
		0.125"	1/4"	19,100	4B165
Gemini Long Life	3"	0.035"	3/8"	25,465	25TZ26
		0.0625"	1/4"	25,465	25TZ03
		0.0625"	3/8"	25,465	25TZ02
		0.125"	3/8"	25,465	25TZ05
	4"	0.035"	3/8"	19,100	25TZ27
		0.125"	3/8"	19,100	25TZ07
Gemini Right Cut		0.045"	5/8"	15,280	5GC50
		0.0937"	5/8"	15,280	25TZ19
	4½"	0.045"	7/8"	13,580	5GC52
		0.0937"	7/8"	13,580	25TZ31
	5"	0.045"	7/8"	12,225	5GC53
		0.0937"	7/8"	12,225	25TZ32
	6"	0.0937"	7/8"	10,185	25TZ33
Gemini Right Cut EVO	7"	0.0625"	7/8"	8600	25TZ38
Gemini Right Cut™	6"	0.045"	7/8"	10,285	5GC54
Norton Metal	3"	0.035"	3/8"	25,465	25TY77
	4"	0.035"	3/8"	19,100	25TY81
	6½"	0.125"	5/8"	9400	25TY88
	7"	0.125"	5/8"	8730	25TY87
		0.125"	5/8"	8730	6A097
	8"	0.125"	5/8"	7640	25TY86
		0.125"	5/8"	7640	6A099
Norton Metal RightCut	4"	0.040"	5/8"	15,280	25TY41
	4½"	0.040"	7/8"	13,580	25TY43
	5"	0.040"	7/8"	12,225	25TY46
	6"	0.040"	7/8"	10,190	25TY48
Sait					
For Ferrous Metal					
A24R	3"	0.125"	3/8"	20,372	5LUA9
	4"	0.125"	3/8"	15,278	5LUC8
	4½"	0.0937"	7/8"	13,300	35KH25
A60S	4"	0.045"	5/8"	19,000	1ATZ2
	4½"	0.045"	7/8"	13,300	1ATZ3
		0.090"	7/8"	13,300	1AUD8
	5"	0.045"	7/8"	12,200	1ATZ4
	6"	0.045"	7/8"	10,200	1ATZ5
	7"	0.045"	5/8"	8500	1ATZ6
		0.090"	5/8"	8500	1AUD9
SAIT.M.X.™	4½"	0.045"	7/8"	13,300	1AUB1
	5"	0.045"	7/8"	12,200	1AUB2
For Ferrous Metal, Stainless					
A36T	2"	0.035"	1/4"	30,558	35KH22
	3"	0.035"	1/4"	25,000	5LUA7
		0.035"	3/8"	25,000	5LUA5
		0.0625"	1/4"	25,000	5LUA3
		0.0625"	3/8"	25,000	5LUA1
	4"	0.035"	1/4"	19,000	5LUC6
		0.035"	3/8"	19,000	5LUC4
		0.0625"	1/4"	19,000	5LUC2
		0.0625"	3/8"	19,000	5LUC0
		0.0625"	5/8"	19,000	35KH24
	3"	0.035"	1/4"	25,000	5LUA8
		0.035"	3/8"	25,000	5LUA6
A60T		0.0625"	1/4"	25,000	5LUA4
		0.0625"	3/8"	25,000	5LUA2
	4"	0.035"	1/4"	19,000	5LUC7
		0.035"	3/8"	19,000	5LUC5
		0.0625"	1/4"	19,000	5LUC3
		0.0625"	3/8"	19,000	5LUC1
XA46R	4½"	0.0625"	7/8"	13,300	5LUE4
	5"	0.0625"	7/8"	12,200	5LUE5
	7"	0.0625"	7/8"	8500	5LUE6
For Ferrous Metal, Stainless, High Tensile Metals					
A60T	2"	0.035"	1/4"	30,558	35KH23
	7"	0.0625"	1 1/4"	8732	35KH26
For Ferrous Metal, Stainless, Nonferrous Materials, Aluminum					
The Ultimate Cut™	4½"	0.045"	7/8"	13,300	22PT32
	5"	0.045"	7/8"	12,200	22PT33
	6"	0.045"	7/8"	10,200	22PT34
For Nonferrous Materials, Aluminum					
A46N	4½"	0.045"	7/8"	13,300	1AUA2
	6"	0.045"	7/8"	10,200	1AUA4
Dewalt					
For Ferrous Metal, Stainless					
A24R	3"	0.125"	1/4"	24,000	3CB18
		0.125"	3/8"	24,000	3CB17
	4"	0.125"	3/8"	19,000	45EG66
Sait					
A36T	3"	0.0625"	1/4"	25,000	5LUA3
Dewalt					
A36T	4"	0.035"	3/8"	19,000	3CB25
		0.0625"	3/8"	19,000	3CB24
A60T	3"	0.035"	3/8"	24,000	3CB20
		0.0625"	3/8"	24,000	3CB19
	4"	0.035"	3/8"	19,000	3CB28
		0.045"	5/8"	19,000	6HD43
		0.0625"	3/8"	19,000	3CB27
	4½"	0.045"	7/8"	13,300	6HD44
	5"	0.045"	7/8"	12,200	6HD45
	6"	0.045"	7/8"	10,100	3CB32
	7"	0.045"	7/8"	8700	6HD47
For High-Strength Metal Cutting					
Mini Hub XP™	4½"	0.045"	5/8"-11	13,300	416L05
	6"	0.045"	5/8"-11	10,100	416L03
		0.045"	3/8"-11	10,100	416L06
Mini Hub XP™	4½"	0.045"	5/8"-11	13,300	416L04
For Metal Cutting					
Mini Hub HP™	4½"	0.045"	5/8"-11	13,300	416L01
	6"	0.045"	5/8"-11	10,100	416L02
For Stainless					
A60S	4½"	0.045"	7/8"	13,300	6TMP9
	5"	0.045"	7/8"	12,200	6TMR0
	6"	0.040"	7/8"	10,100	6TMR1
	7"	0.045"	7/8"	8700	6TMR2
AO	4½"	0.0937"	7/8"	13,300	3PA11
GA					
For Cutting Steel, Metal					
—	3"	0.0625"	3/8"	25,465	447P97
	4"	0.0312"	1/4"	19,100	447P99
		0.0469"	5/8"	15,280	447R01
		0.0625"	1/4"	15,280	447R08
		0.125"	3/8"	19,100	447P95
	4½"	0.0469"	7/8"	13,580	447P96
	7"	0.0625"	7/8"	8600	447R04
	14"	0.125"	1"	4365	447R05
For Ferrous Metal, Gray Iron, Stainless, Nonferrous Materials					
—	12"	0.125"	1"	6300	435Y86
For Metal Cutting					
—	3"	0.035"	1/4"	25,465	435Y61
		0.035"	3/8"	25,465	435Y60
	4"	0.035"	3/8"	19,100	435Y63
		0.0625"	3/8"	19,100	435Y65
	4½"	0.040"	7/8"	13,580	435Y59
	6"	0.045"	7/8"	10,185	435Y64



Norton Masonry
No. 6A098



C60T
No. 3CB42

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT

Type 1 Silicon Carbide Cut-Off Wheels

- Silicon carbide abrasive

For ferrous and nonferrous metals, concrete and masonry.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
Norton Masonry	6½"	0.125"	5/8"	9400	25TY85 *
	7"	0.125"	5/8"	8730	6A098
		0.125"	5/8"	8730	25TY84 *
	8"	0.125"	5/8"	7640	25TY83 *
Norton Masonry RightCut	4"	0.040"	5/8"	15,280	3RA55
	4½"	0.0625"	7/8"	13,580	3RA56
	5"	0.040"	7/8"	12,225	3RA58
Sait					
Big M.A.C.™	12"	0.125"	25/32"	6300	35KH28
DeWalt					
C24R	7"	0.125"	5/8"	8700	6TMT1
C60T	4"	0.045"	5/8"	15,200	3CB42
	4½"	0.045"	7/8"	13,300	3CB43

** Diamond mount.*



Blue Fire
No. 33N541



Z-Tech™
No. 1AUA6



Extended Performance Z60T
No. 6TMT5

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT

Type 1 Heavy-Duty Cut-Off Wheels

- Zirconium aluminum oxide abrasive

For aggressive material removal on ferrous metals, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Stainless, Aluminum					
BlueFire	3"	0.035"	3/8"	25,465	33N542
		0.0625"	3/8"	25,465	33N533
	4"	0.035"	3/8"	19,100	33N541
		0.0625"	3/8"	19,100	33N540
		0.125"	3/8"	19,100	33N549
BlueFire Right Cut	4½"	0.040"	7/8"	13,580	33N553
		0.045"	7/8"	13,580	33N332
	5"	0.040"	7/8"	12,225	33N554
		0.045"	7/8"	12,225	33N333
	6"	0.045"	7/8"	10,185	33N334
Sait					
For Ferrous Metal, Stainless, High Tensile Metals					
Z-Tech™	4"	0.045"	5/8"	19,000	35KH27
	4½"	0.045"	7/8"	13,300	1AUA6
		0.090"	7/8"	13,300	1AUE1
	5"	0.045"	7/8"	12,200	1AUA7
	6"	0.045"	7/8"	10,200	1AUA8
	7"	0.045"	5/8"	8500	1AUA9
		0.090"	5/8"	8500	1AUE2
DeWalt					
For Ferrous Metal, Stainless					
Extended Performance Z60T	4½"	0.045"	7/8"	13,300	6TMT7
	5"	0.045"	7/8"	12,200	6TMT6
	6"	0.045"	7/8"	10,100	6TMT5

Find more information on Wheel Materials and Specifications on page 2383.

Type 1 High Performance Cut-Off Wheels

- Ceramic and ceramic blend abrasives

For ferrous metals, stainless steel, aluminum, aerospace alloys, and fiberglass.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Stainless					
NorZon Plus	3"	0.035"	¼"	25,465	**25TZ08**
	3"	0.035"	⅜"	25,465	**25TZ09**
	3"	0.125"	⅜"	25,465	**3WL22**
	3"	0.0625"	¼"	25,465	**25TZ10**
	3"	0.0625"	⅜"	25,465	**1PYA8**
	4"	0.125"	⅜"	19,100	**25TZ13**
	4"	0.0625"	¼"	19,100	**3UP26**
	4"	0.0625"	⅜"	19,100	**3UP27**
	4"	0.035"	⅜"	19,100	**3WL24**
3M					
For All Metals, Aluminum, Carbon Steel, Cast Iron, Soft Metals, Stainless Steel					
Silver	3"	0.035"	⅜"	25,465	**450Y17**
	3"	0.060"	⅜"	25,465	**450Y18**
	4"	0.035"	¼"	19,100	**450Y19**
	4"	0.035"	⅜"	19,100	**450Y20**
	4"	0.060"	⅜"	19,100	**450Y21**
	4½"	0.400"	⅞"	13,300	**450Y22**
	4½"	0.045"	⅞"	13,300	**450Y23**
	5"	0.045"	⅞"	12,250	**450Y25**
	6"	0.450"	⅞"	10,200	**450Y34**
	7"	0.450"	⅞"	8500	**450Y36**
For Cutting, Grinding, Metalworking					
Silver	4"	0.125"	⅜"	19,100	**480P44**
	4½"	0.094"	⅞"	13,300	**480P45**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Ferrous Metal, Stainless					
CUBITRON II	3"	0.035"	¼"	25,465	**22NZ80**
	3"	0.035"	⅜"	25,465	**22NZ81**
	3"	0.060"	⅜"	25,465	**22NZ83**
	4"	0.035"	⅜"	19,100	**22NZ85**
	4"	0.035"	⅜"	19,100	**22NZ87**
	4"	0.125"	⅜"	19,100	**22NZ91**
	6"	0.045"	⅞"	10,200	**22NZ94**
Sait					
For Ferrous Metal, Stainless					
Saitech Ultimate Performance™	3"	0.0625"	⅜"	25,000	**5LUC9**
	3"	0.0625"	¼"	25,000	**5LUD0**
	3"	0.035"	⅜"	25,000	**5LUD1**
	3"	0.035"	¼"	25,000	**5LUD2**
	4"	0.0625"	⅝"	19,000	**5LUD3**
	4"	0.035"	⅝"	19,000	**5LUD4**
Saitech™	4"	0.0625"	⅜"	19,000	**5LUD5**
	4"	0.0625"	¼"	19,000	**5LUD6**
	4"	0.035"	⅜"	19,000	**5LUD7**
	4"	0.035"	¼"	19,000	**5LUD8**
	4½"	0.045"	⅞"	13,300	**1ATZ7**
	5"	0.045"	⅞"	12,200	**1ATZ8**
	6"	0.045"	⅞"	10,200	**1ATZ9**
	7"	0.045"	⅝"	8500	**1AUA1**



NorZon Plus No. 3UP26



Cubitron™ II No. 22NZ80



Saitech No. 5LUC9

Cut-Off Wheel Adapters

GA GRAINGER APPROVED

Use with cut-off wheels listed on this page and page 737, 2384 and wire brushes on pages 2394 and 2395.

Note: Operate according to ANSI and OSHA guidelines and do not exceed maximum rpm noted on wheel being used.

Screw-Type Wheel Mandrel Adapters— Machined from stressproof steel. Screw head is slotted for fast, easy change. Plated finish. No. 1F540 comes with screws to mount either ¼" or ⅜" holes.

Nut-Type Wheel Arbor Adapters—Use to mount all types of wheels (cut-offs, cloth buffs, wire wheels, etc.). Include arbor, hex nut, and a pair of machined steel washers. Plated finish.

Fits Hole (in.)	Max. Wheel Width (in.)	Shank Dia. (in.)	Washer O.D. (in.)	L (in.)	Item No.	
Screw-Type Wheel Mandrel Adapters						
¼	¼	¼	¾	2⅛	**1F544**	*
⅜	¼	¼	¾	2⅛	**1F542**	*
¼ or ⅜	¼	¼	¾	2⅛	**1F540**	*
Nut-Type Wheel Arbor Adapters						
¼	⅝	¼	1	2 3/16	**1F452**	
⅜	⅝	¼	1	2 3/16	**1F450**	
½	⅝	¼	1 ½	2 3/16	**1F448**	

** Washer O.D. indicates diameter of screw and mandrel head (no washer).*



Screw-Type



Nut-Type



No. 4B168

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT | GA GRAINGER APPROVED

Type 27 General Purpose Depressed Center Grinding and Cutting Wheels

- Aluminum oxide abrasive

For cutting ferrous metals, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Aluminum					
Gemini Aluminum	4½"	¼"	⅝"-11	13,580	**4B174**
For Ferrous Metal, Aluminum					
Gemini Aluminum	4½"	⅛"	⅞"	13,580	**25TZ63**
	7"	¼"	⅝"-11	8600	**25TZ98**
For Ferrous Metal, Gray Iron, Stainless					
Gemini	3"	¼"	⅜"	18,000	**4B168**
	4"	⅛"	⅜"	15,280	**4B169**
		⅛"	⅝"	15,280	**5A863**
		¼"	⅜"	15,280	**4B170**
		¼"	⅝"	15,280	**6A624**
	4½"	⅛"	⅞"	13,580	**25TZ84**
		3/16"	⅞"	13,580	**3WM26**
		¼"	⅝"-11	13,580	**4B171**
		¼"	⅞"	13,580	**6A076**
	5"	⅛"	⅞"	12,225	**5A865**
		¼"	⅝"-11	12,225	**25TZ86**
		¼"	⅞"	12,225	**5A866**
	6"	⅛"	⅝"-11	10,185	**25TZ44**
		⅛"	⅞"	10,185	**1PYD4**
		⅛"	⅞"	15,280	**25TZ59**
		¼"	⅝"-11	10,185	**1PYC5**
		¼"	⅞"	10,185	**1PYC8**
	7"	0.060"	⅞"	8600	**6PJ31**
		⅛"	⅝"-11	8600	**5A872**
		⅛"	⅞"	8600	**5A871**
	9"	0.060"	⅝"-11	6600	**4RA81**
		⅛"	⅝"-11	6600	**5A874**
		⅛"	⅞"	6600	**5A873**
Gemini 1-2-3	4½"	3/32"	⅞"	13,500	**25TZ77**
Gemini Fast Cut	4"	¼"	⅜"	15,280	**25TZ58**
	4½"	¼"	⅝"-11	13,580	**25TZ80**
		¼"	⅞"	13,580	**25TZ79**
	7"	¼"	⅝"-11	8600	**25TZ97**
	9"	¼"	⅝"-11	6600	**25UA07**
		¼"	⅞"	6600	**25UA06**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Gemini Flexible	7"	⅛"	⅝"-11	8600	**25TZ93**
Gemini Long Life	5"	3/32"	⅞"	12,225	**25TZ82**
	7"	¼"	⅝"-11	8600	**6A077**
		¼"	⅞"	8600	**5A867**
	9"	¼"	⅝"-11	6600	**5A869**
		¼"	⅞"	6600	**5A868**
Gemini Right Cut	4"	0.045"	⅝"	15,280	**25TZ72**
	4½"	0.045"	⅝"-11	13,580	**2KNC8**
		0.045"	⅞"	13,580	**6PH20**
		3/32"	⅞"	13,580	**25TZ56**
		⅛"	⅝"-11	13,580	**4B172**
		⅛"	⅝"-11	13,580	**25TZ83**
		⅛"	⅞"	13,580	**5A864**
	5"	0.045"	⅝"-11	12,225	**2KNC9**
		0.045"	⅞"	12,225	**6PH21**
	6"	0.045"	⅝"-11	10,185	**2KND1**
		0.045"	⅞"	10,185	**6PH22**
	7"	⅛"	⅞"	8600	**25TZ87**
Gemini XXL	4½"	¼"	⅝"-11	13,580	**31CF13**
		¼"	⅞"	13,580	**31CF12**
	5"	¼"	⅝"-11	12,225	**31CF15**
		¼"	⅞"	12,225	**31CF14**
	6"	¼"	⅝"-11	10,185	**31CF17**
		¼"	⅞"	10,185	**31CF16**
	7"	¼"	⅝"-11	8600	**31CF19**
		¼"	⅞"	8600	**31CF18**
	9"	¼"	⅝"-11	6600	**31CF21**

CONTINUED

CONTINUED

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT | GRAINGER APPROVED

Find more Grinding Wheels at grainger.com/precisiongrinding

Type 27 General Purpose Depressed Center Grinding and Cutting Wheels



No. 6HD80



No. 447R46

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton (Cont.)					
For Ferrous Metal, Gray Iron, Stainless (Cont.)					
Norton Metal	4"	⅛"	⅝"	15,280	**25TY57**
		¼"	⅝"	15,280	**25TY55**
	4½"	0.045"	⅞"	13,580	**25TY50**
		⅛"	⅝"-11	13,580	**25TY62**
		⅛"	⅞"	13,580	**25TY64**
		¼"	⅝"-11	13,580	**25TY59**
		¼"	⅞"	13,580	**6PH27**
	5"	⅛"	⅝"-11	12,225	**25TY69**
		⅛"	⅞"	12,225	**25TY70**
		¼"	⅝"-11	12,225	**25TY65**
		¼"	⅞"	12,225	**25TY68**
	6"	0.045"	⅞"	10,190	**25TY52**
	7"	⅛"	⅝"-11	8600	**25TY74**
		¼"	⅝"-11	8600	**25TY71**
	9"	¼"	⅞"-11	6600	**6PJ94**
Norton Metal RightCut	4"	0.045"	⅝"	15,280	**25TY49**
	5"	0.045"	⅞"	12,225	**25TY51**
For Ferrous Metal, Gray Iron, Stainless, Aluminum					
Gemini Aluminum	4"	¼"	⅝"	15,280	**4B173**
	5"	¼"	⅞"	12,225	**25TZ68**
	7"	¼"	⅝"-11	8600	**6A432**
	9"	¼"	⅝"-11	6600	**6A433**
Gemini Flexible	2"	⅛"	⅜"	30,560	**4DDY1**
Gemini RightCut Aluminum	5"	0.045"	⅞"	12,225	**33N344**
	6"	0.045"	⅞"	10,185	**33N345**
For Ferrous Metal, Gray Iron, Stainless, Aluminum, Pipeline					
Gemini RightCut Aluminum	4½"	0.045"	⅞"	13,580	**33N343**
For Ferrous Metal, Gray Iron, Stainless, Contaminate Free					
Gemini Right Cut	4½"	0.045"	⅝"-11	13,580	**33N347**
		0.045"	⅞"	13,580	**33N346**
	5"	0.045"	⅞"	12,225	**33N348**
	6"	0.045"	⅞"	10,185	**33N350**
	7"	0.045"	⅝"-11	8600	**33N353**
		0.045"	⅞"	8600	**33N352**
Gemini Stainless Steel	4½"	3/32"	⅝"-11	13,580	**25TZ60**
		3/32"	⅞"	13,580	**25TZ61**
		¼"	⅝"-11	13,580	**25TZ64**
		¼"	⅞"	13,580	**25TZ65**
	5"	3/32"	⅞"	12,225	**25TZ66**
		¼"	⅞"	12,225	**25TZ69**
	7"	3/32"	⅞"	8600	**25TZ91**
For Ferrous Metal, Gray Iron, Stainless, Pipeline					
Gemini	6"	⅛"	⅝"-11	10,185	**25TZ52**
Gemini Right Cut	4½"	3/32"	⅝"-11	13,580	**33N337**
	5"	3/32"	⅝"-11	12,225	**33N338**
	6"	3/32"	⅝"-11	10,185	**33N339**
		3/32"	⅞"	10,185	**33N340**
	7"	3/32"	⅝"-11	8600	**33N341**
		3/32"	⅞"	8600	**33N342**
For Grinding aluminum and soft metals without loading					
Gemini Aluminum	4½"	¼"	⅞"	13,580	**4B175**
For Hard Grade Carbon Steels, Weld Repairs, Flashing					
Gemini XXL	4½"	⅛"	⅝"-11	13,580	**45PL20**
		⅛"	⅞"	13,580	**45PL21**
	5"	⅛"	⅝"-11	12,225	**45PL22**
		⅛"	⅞"	12,225	**45PL23**
	7"	⅛"	⅝"-11	8600	**45PL26**
	9"	⅛"	⅝"-11	6600	**45PL28**
		⅛"	⅞"	6600	**45PL29**
Sait					
For Ferrous Metal					
A24R	4"	¼"	⅝"	13,500	**35KH12**
		3/32"	⅞"	13,300	**35KH19**
	4½"	⅛"	⅝"-11	13,300	**1AUK3**
		¼"	⅝"-11	13,300	**1AUH4**
		¼"	⅞"	13,300	**2KMG5**
	5"	⅛"	⅝"-11	12,200	**1AUK4**
		¼"	⅝"-11	12,200	**1AUH8**
		¼"	⅞"	12,200	**2KMG6**
	6"	⅛"	⅝"-11	10,200	**35KH20**
	7"	⅛"	⅝"-11	8500	**1AUK1**
		¼"	⅝"-11	8500	**1AUF2**
		¼"	⅞"	8500	**2KMG7**
	9"	⅛"	⅝"-11	6600	**1AUK2**
		¼"	⅝"-11	6600	**1AUF6**
		¼"	⅞"	6600	**2KMG8**
A24T	4½"	¼"	⅝"-11	13,300	**1AUH6**
		¼"	⅞"	13,300	**2KMG9**
	7"	¼"	⅝"-11	8500	**1AUH9**
		¼"	⅞"	8500	**2KMH1**
A60S	4"	0.045"	⅝"	19,000	**1AUB4**
	4½"	0.045"	⅝"-11	13,300	**31NJ30**
		0.045"	⅞"	13,300	**1AUB5**
		3/32"	⅞"	13,300	**35KH15**
	5"	0.045"	⅝"-11	12,200	**31NJ32**
		0.045"	⅞"	12,200	**1AUB9**
	6"	0.045"	⅞"	10,200	**1AUB6**
	7"	0.045"	⅞"	8500	**1AUB7**
For Aluminum					
A46N	5"	0.045"	⅝"-11	12,200	**31NJ33**
For Ferrous Metal, Gray Iron, Stainless, Nonferrous Materials, Concrete Masonry Asphalt, Aluminum, Contaminate Free					
Challenger 3 ™	4½"	⅛"	⅞"	13,280	**22PT44**
		⅛"	⅞"	13,280	**22PT45**
For Ferrous Metal, Pipeline					
A24R	4½"	⅛"	⅞"	13,300	**2KMJ6**
	5"	⅛"	⅞"	12,200	**2KMJ7**
	7"	⅛"	⅞"	8500	**2KMJ8**
	9"	⅛"	⅞"	6600	**2KMJ9**
For Ferrous Metal, Stainless					
A24N	4"	¼"	⅜"	13,500	**35KH11**
	4½"	3/16"	⅞"	13,300	**35KH13**
		¼"	⅝"-11	13,300	**1AUH1**
		¼"	⅞"	13,300	**2KMG2**
	5"	¼"	⅝"-11	12,200	**1AUH7**
		¼"	⅞"	12,200	**2KMG3**
	6"	¼"	⅞"	10,200	**35KH14**
	7"	¼"	⅝"-11	8500	**1AUF1**
		¼"	⅞"	8500	**2KMG4**
A24R	4½"	3/32"	⅝"-11	13,300	**4AYF2**
A60S		0.090"	⅝"-11	13,300	**1AUE3**
	6"	0.090"	⅝"-11	10,200	**1AUE4**
	7"	0.090"	⅝"-11	8500	**1AUE5**
	9"	0.090"	⅝"-11	6600	**1AUE6**
For Ferrous Metal, Stainless, Nonferrous Materials, Aluminum					
The Ultimate Combo™ A60S	4½"	0.095"	⅝"-11	13,300	**22PT42**
		0.095"	⅞"	13,300	**22PT35**
	5"	0.095"	⅞"	12,200	**22PT36**
The Ultimate Cut™	4½"	0.045"	⅞"	13,300	**22PT39**
	5"	0.045"	⅞"	12,200	**22PT40**
	6"	0.045"	⅞"	10,200	**22PT41**
For Nonferrous Materials, Aluminum					
A46N	4½"	0.045"	⅝"-11	13,300	**31NJ31**
		0.045"	⅞"	13,300	**1AUC5**
		¼"	⅝"-11	13,300	**1AUH3**
		¼"	⅞"	13,300	**2KMH2**
	5"	0.045"	⅞"	12,200	**1AUC6**
	6"	0.045"	⅞"	10,200	**1AUC7**
	7"	0.045"	⅞"	8500	**1AUC8**
		¼"	⅝"-11	8500	**1AUF4**
		¼"	⅞"	8500	**2KMH3**
For Stainless, Contaminate Free					
XA24Q	4½"	¼"	⅞"	13,300	**5LUD9**
	5"	¼"	⅞"	12,200	**5LUE0**
	6"	¼"	⅞"	10,200	**5LUE1**
	7"	¼"	⅞"	8500	**5LUE2**
	9"	¼"	⅞"	6600	**5LUE3**
DeWalt					
For Aluminum					
High Performance	4"	¼"	⅝"	15,200	**6HD68**
	4½"	¼"	⅝"-11	13,300	**6HD70**
		¼"	⅞"	13,300	**6HD69**
	7"	¼"	⅝"-11	8700	**6HD72**
		¼"	⅞"	8700	**3PA22**
	9"	¼"	⅝"-11	6600	**6HD73**
For Ferrous Metal					
High Performance	4"	¼"	⅝"	15,200	**4KZ22**
	4½"	3/32"	⅝"-11	13,300	**5TU26**
		3/32"	⅞"	13,300	**5TU24**
		¼"	⅝"-11	13,300	**4WM67**
		¼"	⅞"	13,300	**4KZ28**
		¼"	⅞"	13,300	**5TE66**
	5"	3/32"	⅝"-11	12,200	**5TU30**
		3/32"	⅞"	12,200	**5TU28**
		¼"	⅝"-11	12,200	**6HC19**
		¼"	⅞"	12,200	**4KZ38**
	6"	3/32"	⅝"-11	10,100	**5TU34**
		3/32"	⅞"	10,100	**5TU32**
		¼"	⅞"	10,100	**6HC20**
	7"	3/32"	⅝"-11	8700	**5TU38**
		3/32"	⅞"	8700	**5TU36**
		¼"	⅝"-11	8700	**4PC20**
		¼"	⅞"	8700	**4PC13**
	9"	3/32"	⅞"	6600	**5TU40**
		¼"	⅝"-11	6600	**4KZ80**
		¼"	⅞"	6600	**6HC38**
For Ferrous Metal, Pipeline					
High Performance	4½"	⅛"	⅝"-11	13,300	**6HD86**
		⅛"	⅞"	13,300	**6HD85**
	5"	⅛"	⅝"-11	12,200	**6HD87**
	6"	⅛"	⅝"-11	10,100	**5TU12**
	7"	⅛"	⅝"-11	8700	**6HD88**
		⅛"	⅞"	8700	**3PA24**
	9"	⅛"	⅝"-11	6600	**6HD89**
For Ferrous Metal, Stainless					
High Performance	4"	0.045"	⅝"	15,200	**6HD80**
	4½"	0.045"	⅝"-11	13,300	**6TMR3**
		0.045"	⅞"	13,300	**6HD81**
	5"	0.045"	⅞"	12,200	**6HD82**
	6"	0.045"	⅝"-11	10,100	**6TMR7**
		0.045"	⅞"	10,100	**6HD83**
	7"	0.045"	⅝"-11	8700	**6TND5**
		0.045"	⅞"	8700	**6HD84**
Metal AO	4"	⅛"	⅝"	15,200	**4KZ21**
	4½"	⅛"	⅞"	13,300	**4KZ29**
		¼"	⅝"-11	13,300	**5TE72**
		¼"	⅞"	13,300	**5TE70**
	5"	¼"	⅝"-11	12,200	**5TE76**
		¼"	⅞"	12,200	**5TE74**
	6"	¼"	⅝"-11	10,100	**5TE80**
		¼"	⅞"	10,100	**5TE78**
	7"	¼"	⅝"-11	8700	**5TE84**
		¼"	⅞"	8700	**5TE82**
	9"	⅛"	⅞"	6600	**6RM60**
		¼"	⅝"-11	6600	**5TE88**
		¼"	⅞"	6600	**5TE86**
For Stainless, Contaminate Free					
High Performance	4"	¼"	⅝"	15,200	**6HD74**
	4½"	0.045"	⅞"	13,300	**6TMP5**
		⅛"	⅝"-11	13,300	**6TNC3**
		¼"	⅝"-11	13,300	**6HD76**
		¼"	⅞"	13,300	**6HD75**
	5"	0.045"	⅞"	12,200	**6TMP6**
		⅛"	⅞"	12,200	**3PA15**
		¼"	⅝"-11	12,200	**6HD77**
	6"	0.045"	⅞"	10,100	**6TMP7**
		⅛"	⅝"-11	10,100	**6TNC6**
		⅛"	⅞"	10,100	**6TNC5**
		¼"	⅝"	10,100	**6TNC0**
		¼"	⅝"-11	10,100	**6TNC2**
	7"	0.045"	⅞"	8700	**6TMP8**
		¼"	⅞"	8700	**3PA19**
	9"	¼"	⅝"-11	6600	**6HD79**
GA					
For Ferrous Metal, Alloy Steels					
Carbo Gold	4"	1/16"	⅝"	15,280	**447R42**
	4½"	3/64"	⅞"	13,580	**447R32**
	5"	3/64"	⅝"-11	12,225	**447R31**
Carbo Goldcut	4½"	3/64"	⅝"-11	13,580	**447R43**
Carbo White		¼"	⅝"-11	13,580	**447R46**
For Ferrous Metal, Gray Iron, Stainless, Nonferrous Materials					
Carbo Metal	5"	0.250"	⅞"	12225	**435Y69**
	7"	0.250"	⅞"	8600	**435Y74**
	9"	0.250"	⅝"	6600	**435Y79**
		0.125"	⅝"-11	6600	**435Y83**
Gold	3"	0.125"	⅜"	25465	**435Y68**
	5"	0.250"	⅝"	12225	**435Y78**
		0.045"	⅞"	12225	**435Y76**
High Speed Blade Metal	12"	0.125"	1"	6300	**435Y86**
	14"	0.125"	1"	5400	**435Y70**
For Ferrous Metals, Stainless Metals, Alloy Steels, Cast Iron					
Carbo Gold	4½"	3/32"	⅝"-11	13,580	**447R33**
	6"	3/32"	⅞"	10,185	**447R45**
		¼"	⅝"-11	10,185	**447R38**
Carbo Redcut	5"	3/64"	⅞"	12,225	**447R40**
Carbo White	4½"	3/64"	⅞"	13,580	**447R28**
	6"	3/64"	⅞"	10,185	**447R29**
Premier Red	4½"	⅛"	⅞"	13,580	**447R41**
		¼"	⅝"-11	13,580	**447R36**

MetalMax™ Diamond Cutting Wheels

LENOX

- 40/50 grit
- For cutting most metals

Dia.	Arbor Hole Size	Thickness	Max. RPM	Item No.
Type 1				
1 ½ in	⅜ in	0.05 in	40,200 RPM	**48RW93**
2 in	⅜ in	0.05 in	30,500 RPM	**48RW94**
3 in	⅜ in	0.05 in	20,300 RPM	**48RW95**
4 in	⅜ in	0.05 in	15,200 RPM	**48RW96**
	⅝ in	0.05 in	15,200 RPM	**48RW97**
8 in	⅝ in	0.06 in	7,600 RPM	**48RX03**
4 ½ in	⅞ in	0.05 in	13,200 RPM	**48RW98**
5 in	⅞ in	0.05 in	12,200 RPM	**48RW99**
6 in	⅞ in	0.05 in	10,100 RPM	**48RX01**
7 in	⅞ in	0.06 in	8,400 RPM	**48RX02**
Type 27				
4 ½ in	⅞ in	0.05 in	13,200 RPM	**493Z16**
6 in	⅞ in	0.05 in	10,100 RPM	**493Z17**
7 in	⅞ in	0.06 in	8,400 RPM	**493Z18**



No. 48RX03



No. 48RW98

NORTON SAINT-GOBAIN | UNITED ABRASIVES, INC. SAIT | DEWALT

Type 27 Heavy-Duty Depressed Center Grinding and Cutting Wheels

- Zirconium aluminum oxide abrasive

For aggressive material removal on ferrous metals, stainless steel and aluminum.



BlueFire
No. 33N286



Z-tech
No. 1AUK5



Z24R
No. 5TU92

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Nonferrous Materials					
BlueFire Foundry	7"	⅛"	⅞"	8600	**25TZ92**
For Ferrous Metal, Gray Iron, Stainless					
BlueFire	4"	⅛"	⅜"	15,280	**33N550**
		⅛"	⅝"	15,280	**33N286**
		¼"	⅜"	15,280	**33N287**
		¼"	⅝"	19,100	**33N534**
	4½"	⅛"	⅝"-11	13,580	**33N311**
		⅛"	⅞"	13,580	**33N312**
		¼"	⅝"-11	13,580	**33N313**
		¼"	⅞"	13,580	**33N314**
	5"	⅛"	⅝"-11	12,225	**33N315**
		⅛"	⅞"	12,225	**33N316**
		¼"	⅝"-11	12,225	**33N317**
		¼"	⅞"	12,225	**33N318**
	6"	⅛"	⅞"	10,185	**33N309**
		¼"	⅝"-11	10,185	**33N323**
		¼"	⅞"	10,185	**33N310**
	7"	⅛"	⅝"-11	8600	**33N324**
		⅛"	⅞"	8600	**33N325**
		¼"	⅝"-11	8600	**33N326**
		¼"	⅞"	8600	**33N327**
	9"	⅛"	⅝"-11	6600	**33N328**
		⅛"	⅞"	6600	**33N329**
		¼"	⅝"-11	6600	**33N330**
		¼"	⅞"	6600	**33N331**
BlueFire Foundry	4"	¼"	⅜"	15,280	**33N552**
		¼"	⅝"	15,280	**33N551**
BlueFire Foundry HD	9"	¼"	⅝"-11	6600	**33N539**
		¼"	⅞"	6600	**33N532**
BlueFire Right Cut	4½"	0.040"	⅝"-11	13,580	**33N524**
		0.045"	⅝"-11	13,580	**33N322**
		0.045"	⅞"	13,580	**33N319**
	5"	0.040"	⅝"-11	12,225	**33N555**
		0.045"	⅞"	12,225	**33N320**
	6"	0.045"	⅞"	10,185	**33N321**
For Ferrous Metal, Gray Iron, Stainless, Contaminate Free					
BlueFire Fast Cut/INOX	4½"	⅛"	⅝"-11	13,580	**33N297**
		⅛"	⅞"	13,580	**33N296**
		¼"	⅝"-11	13,580	**33N299**
		¼"	⅞"	13,580	**33N298**
	5"	⅛"	⅝"-11	12,225	**33N302**
		⅛"	⅞"	12,225	**33N301**
		¼"	⅝"-11	12,225	**33N304**
	6"	⅛"	⅝"-11	10,185	**33N306**
		⅛"	⅞"	10,185	**33N305**
	7"	⅛"	⅝"-11	8600	**33N289**
		⅛"	⅞"	8600	**33N288**
		¼"	⅝"-11	8600	**33N291**
	9"	⅛"	⅝"-11	6600	**33N293**
		¼"	⅞"	6600	**33N294**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Ferrous Metal, Gray Iron, Stainless, Nonferrous Materials					
BlueFire Foundry	4½"	⅛"	⅝"-11	13,580	**33N544**
		⅛"	⅞"	13,580	**33N543**
		¼"	⅝"-11	13,580	**33N535**
		¼"	⅞"	13,580	**33N519**
	7"	⅛"	⅝"-11	8600	**33N547**
		¼"	⅝"-11	8600	**33N525**
		¼"	⅞"	8600	**33N546**
	9"	⅛"	⅝"-11	6600	**33N526**
		⅛"	⅞"	6600	**33N536**
		¼"	⅝"-11	6600	**33N527**
		¼"	⅞"	6600	**33N548**
Sait					
For Ferrous Metal, Stainless					
The Ulimate Combo™ Ztech™	4½"	0.095"	⅝"-11	13,300	**22PT43**
	5"	0.095"	⅞"	12,200	**22PT38**
The Ultimate Cut™	4½"	0.045"	⅝"-11	13,300	**31NJ36**
	5"	0.045"	⅝"-11	12,200	**31NJ39**
Z-Tech™	4½"	0.090"	⅝"-11	13,300	**1AUE7**
		0.045"	⅝"-11	13,300	**31NJ34**
		0.045"	⅞"	13,300	**1AUD1**
		⅛"	⅝"-11	13,300	**1AUK9**
		¼"	⅝"-11	13,300	**1AUK5**
		¼"	⅞"	13,300	**2KMJ2**
	5"	0.045"	⅝"-11	12,200	**31NJ37**
		0.045"	⅞"	12,200	**1AUD2**
		¼"	⅝"-11	12,200	**1AUK6**
		¼"	⅞"	12,200	**2KMJ3**
	6"	0.090"	⅝"-11	10,200	**1AUE8**
		0.045"	⅞"	10,200	**1AUD3**
		¼"	⅞"	10,200	**35KH21**
	7"	0.090"	⅝"-11	8500	**1AUE9**
		0.045"	⅞"	8500	**1AUD4**
		⅛"	⅝"-11	8500	**1AUL1**
		¼"	⅝"-11	8500	**1AUK7**
		¼"	⅞"	8500	**2KMJ4**
	9"	⅛"	⅝"-11	6600	**1AUL2**
		¼"	⅝"-11	6600	**1AUK8**
		¼"	⅞"	6600	**2KMJ5**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Ferrous Metal, Stainless, Pipeline					
Z-Tech™	4½"	⅛"	⅞"	13,300	**2KMK1**
	7"	⅛"	⅞"	8500	**2KMK2**
	9"	⅛"	⅞"	6600	**2KMK3**
DeWalt					
For Ferrous Metal, Pipeline					
Z24R	4"	⅛"	⅜"	15,200	**5TU47**
	4½"	⅛"	⅝"-11	13,300	**5TU65**
		⅛"	⅞"	13,300	**5TU62**
	5"	⅛"	⅝"-11	12,200	**5TU83**
		⅛"	⅞"	12,200	**5TU80**
	6"	⅛"	⅝"-11	10,100	**5TY11**
		⅛"	⅞"	10,100	**5TU98**
	7"	⅛"	⅝"-11	8700	**5TY30**
For Ferrous Metal, Stainless					
Z24R	4"	3/32"	⅝"	15,200	**5TU44**
		¼"	⅝"	15,200	**5TU53**
	4½"	3/32"	⅝"-11	13,300	**5TU59**
		3/32"	⅞"	13,300	**5TU56**
		¼"	⅝"-11	13,300	**5TU71**
		¼"	⅞"	13,300	**5TU68**
	5"	3/32"	⅞"	12,200	**5TU74**
		¼"	⅝"-11	12,200	**5TU89**
		¼"	⅞"	12,200	**5TU86**
	6"	3/32"	⅝"-11	10,100	**5TU95**
		3/32"	⅞"	10,100	**5TU92**
		¼"	⅝"-11	10,100	**5TY17**
		¼"	⅞"	10,100	**5TY14**
	7"	3/32"	⅞"	8700	**5TY20**
		¼"	⅝"-11	8700	**5TY36**
	9"	3/32"	⅝"-11	6600	**5TY42**
		3/32"	⅞"	6600	**5TY39**
		¼"	⅝"-11	6600	**5TY54**
Z60T	4"	0.045"	⅝"	15,200	**6TND0**
	4½"	0.045"	⅝"-11	13,300	**6TMR4**
		0.045"	⅞"	13,300	**6TND1**
	5"	0.045"	⅝"-11	12,200	**6TMR6**
		0.045"	⅝"-11	12,200	**6TND2**
	6"	0.045"	⅝"-11	10,100	**6TMR8**
		0.045"	⅞"	10,100	**6TND3**
	7"	0.045"	⅞"	10,100	**6TND4**

Find more information on Wheel Materials and Specifications on page 2383.

Guide to Arbor Bushings and Grit Sizes

Grit	Aluminum Oxide	White Aluminum Oxide	Silicon Carbide
Very Coarse	24 Grit	—	—
Coarse	36/46 Grit	—	—
Medium	60/80 Grit	60 Grit	60 Grit
Fine	100/120 Grit	100 Grit	80 Grit
Extra Fine	—	150 Grit	120 Grit

Wheel Dia. (in.)	Wheel Center Hole (in.)	1/2"	5/8"	3/4"	7/8"	1"	1¼"
Arbor Bushings For Bench & Pedestal Wheels*							
5	1	●	●	●	●		
6	1	●	●	●	●		
7	1	●	●	●	●		
8	1		●	●	●		
10	1¼			●	●	●	
12	1¼					●	●

** These sizes of bushings shipped free of charge with Norton wheels.*



Silicon Carbide
No. 4B136

NORTON SAINT-GOBAIN

Bench and Pedestal Grinding Wheels

Dia.	Thickness	Arbor Hole Size	Grit	Max. RPM	Item No.
Aluminum Oxide					
5"	½"	1"	60	4965	**6A083**
	½"	1"	36	4140	**4B128**
	½"	1"	60	4140	**4B127**
	½"	1"	100	4140	**4B129**
6"	¾"	1"	36	4140	**6A084**
	¾"	1"	60	4140	**6A085**
	¾"	1"	100	4140	**6A086**
	1"	1"	36	4140	**5A881**
	1"	1"	60	4140	**5A882**
	1"	1"	100	4140	**5A883**
7"	1"	1"	36	3600	**6A087**
	1"	1"	60	3600	**6A088**
	1"	1"	100	3600	**6A089**
8"	¾"	1"	100	3600	**4DDN5**
	1"	1"	24	3600	**4B138**
	1"	1"	36	3600	**6A090**
	1"	1"	60	3600	**6A091**
	1"	1"	100	3600	**6A092**
10"	1"	1¼"	24	2485	**4B141**
	1"	1¼"	36	2485	**6A093**
	1"	1¼"	60	2485	**6A094**
	1"	1¼"	100	2485	**4B140**
	1¼"	1¼"	36	2485	**4DDN7**
	1¼"	1¼"	60	2485	**4DDN6**
12"	1½"	1½"	60	2070	**4DDN8**
	2"	1½"	36	2070	**5A884**
	2"	1½"	60	2070	**5A885**
White Aluminum Oxide					
6"	¾"	1"	60	4140	**3PY74**
	¾"	1"	100	4140	**3PY75**
	¾"	1"	150	4140	**3PY76**
	1"	1"	60	4140	**3PY77**
	1"	1"	100	4140	**3PY78**
	1"	1"	150	4140	**3PY79**
8"	1"	1"	60	3600	**3PY80**
	1"	1"	100	3600	**3PY81**
	1"	1"	150	3600	**3PY82**
Silicon Carbide					
6"	½"	1"	60	4140	**4B130**
	½"	1"	80	4140	**4B131**
	½"	1"	120	4140	**4B132**
	¾"	1"	60	4140	**5A886**
	¾"	1"	80	4140	**5A887**
	¾"	1"	120	4140	**4B134**
	1"	1"	60	4140	**4B133**
	1"	1"	80	4140	**4B135**
	1"	1"	120	4140	**4B136**
7"	1"	1"	60	3600	**5A890**
	1"	1"	80	3600	**5A891**
	1"	1"	120	3600	**4B137**
8"	1"	1"	60	3600	**5A892**
	1"	1"	80	3150	**5A893**
	1"	1"	120	3150	**4B139**
10"	1"	1¼"	60	2485	**5A894**
	1"	1¼"	80	2485	**5A895**
12"	2"	1¼"	80	2070	**4DDN9**



Cubitron II
No. 30CN57



No. 493Z89



Quantum 3
No. 45VH22



Saitech Ultimate Performance™
No. 4AYF3

NORTON SAINT-GOBAIN | 3M | DEWALT | UNITED ABRASIVES, INC. SAIT

Type 27 High Performance Grinding and Cutting Wheels

- Ceramic and ceramic blend abrasives

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
BlueFire Right Cut	4½"	0.045"	⅞"	13,580	**33N319**
For All Purpose Grinding					
Quantum 3	4"	¼"	⅜"	15,280	**45VH22**
		¼"	⅝"	15,280	**45VH23**
	4½"	¼"	⅝"-11	13,580	**45VH24**
		¼"	⅞"	13,580	**45VH25**
	5"	¼"	⅝"-11	12,225	**45VH26**
		¼"	⅞"	12,225	**45VH27**
	6"	¼"	⅝"-11	10,185	**45VH28**
		¼"	⅞"	10,185	**45VH29**
	7"	¼"	⅝"-11	8600	**45VH30**
		¼"	⅞"	8600	**45VH32**
	9"	¼"	⅝"-11	6600	**45VH33**
		¼"	⅞"	6600	**45VH36**
For Ferrous Metal, Gray Iron, Stainless					
NorZon Plus	3"	⅛"	⅜"	18,000	**3UW96**
		¼"	⅜"	18,000	**3UW97**
	4"	⅛"	⅜"	15,280	**3UW98**
		⅛"	⅝"	15,280	**3UW99**
		¼"	⅜"	15,280	**3UP28**
		¼"	⅝"	15,280	**3UP29**
	4½"	⅛"	⅝"-11	13,580	**3UX05**
		⅛"	⅞"	13,580	**3UX04**
		¼"	⅝"-11	13,580	**4DB53**
		¼"	⅞"	13,580	**4DB54**
	5"	⅛"	⅝"-11	12,225	**1PYC2**
		⅛"	⅞"	12,225	**3UX08**
		¼"	⅝"-11	12,225	**4DB55**
		¼"	⅞"	12,225	**4DB56**
	6"	⅛"	⅝"-11	10,185	**25TZ54**
		¼"	⅞"	10,185	**1PYD1**
	7"	⅛"	⅝"-11	8600	**3UX15**
		⅛"	⅞"	8600	**3UX14**
		¼"	⅝"-11	8600	**4DB57**
		¼"	⅞"	8600	**4DB58**
	9"	⅛"	⅝"-11	6600	**3UX22**
		⅛"	⅞"	6600	**3UX21**
		¼"	⅝"-11	6600	**4DB59**
		¼"	⅞"	6600	**4DB60**
NorZon Plus Foundry		¼"	⅝"-11	6600	**25UA02**
NorZon Plus Long Life	4½"	¼"	⅝"-11	13,580	**4DDX6**
	5"	¼"	⅝"-11	12,225	**4DDX7**
	7"	¼"	⅝"-11	8600	**4DDX8**
	9"	¼"	⅝"-11	6600	**4DDX9**
NorZon Plus RightCut	4½"	⅛"	⅝"-11	13,580	**6PG98**
		⅛"	⅞"	13,580	**3WM18**
	5"	0.045"	⅞"	12,225	**2KNC6**
	6"	0.045"	⅝"-11	10,185	**25TZ57**
For Ferrous Metal, Gray Iron, Stainless, Pipeline					
NorZon Plus	7"	⅛"	⅝"-11	8600	**25TZ95**
	9"	⅛"	⅝"-11	6600	**25UA04**
For Foundry Grinding					
Quantum 3 Foundry	9"	¼"	⅝"-11	6600	**45VH34**
		¼"	⅞"	6600	**45VH37**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
3M					
64320-Q	4½"	¼"	⅝"-11	13,300	**448D51**
Silver	4"	¼"	⅜"	15,300	**450Y13**
		¼"	⅝"	15,300	**450Y12**
	4½"	0.045"	⅞"	13,300	**450Y24**
		¼"	⅝"-11	13,300	**450Y11**
		¼"	⅝"-11	13,300	**450Y37**
		¼"	⅞"	13,300	**450Y14**
	5"	¼"	⅝"-11	12,250	**450Y27**
		¼"	⅞"	12,250	**450Y15**
	6"	0.045"	⅞"	10,200	**450Y35**
		¼"	⅝"-11	10,200	**450Y28**
		¼"	⅞"	10,200	**450Y31**
	7"	¼"	⅝"-11	8500	**450Y29**
		¼"	⅞"	8500	**450Y32**
	9"	¼"	⅝"-11	6650	**450Y30**
		¼"	⅞"	6650	**450Y33**
For Ferrous Metal					
Green Corps™	4½"	¼"	⅝"-11	13,300	**1DXN7**
	7"	¼"	⅝"-11	8500	**1DXP3**
For Ferrous Metal, Stainless, Aluminum					
Cubitron™II	4"	¼"	⅝"	15,300	**22PA27**
	4½"	0.045"	⅝"-11	13,300	**22PA34**
		0.045"	⅞"	13,300	**22PA31**
		⅛"	⅝"-11	13,300	**30CN56**
		⅛"	⅞"	13,300	**30CN67**
	5"	0.090"	⅞"	12,250	**22PA37**
		⅛"	⅝"-11	12,250	**30CN57**
		⅛"	⅞"	12,250	**30CN66**
		¼"	⅝"-11	12,250	**22PA22**
	6"	0.045"	⅞"	10,200	**22PA41**
	7"	0.090"	⅝"-11	8500	**22PA42**
		0.090"	⅞"	8500	**22PA43**
		⅛"	⅝"-11	8500	**30CN59**
		⅛"	⅞"	8500	**30CN60**
	9"	⅛"	⅝"-11	6650	**30CN61**
		⅛"	⅞"	6650	**30CN62**
Green Corps™	4½"	⅛"	⅝"-11	13,300	**1DXN8**
	7"	⅛"	⅝"-11	8500	**1DXP4**
High Performance	4½"	¼"	⅞"	13,300	**22PA44**
	5"	¼"	⅞"	12,250	**22PA45**
DeWalt					
For Ferrous Metal, Gray Iron, Stainless, Aluminum					
XP Ceramic	4 ½"	0.250"	⅝"-11	13,300	**493Z89**
		0.093"	⅝"-11	13,300	**493Z99**
		0.250"	⅞"	13,300	**493Z88**
		0.093"	⅞"	13,300	**493Z98**
	5"	0.250"	⅝"-11	12,200	**493Z91**
		0.093"	⅝"-11	12,200	**494A02**
		0.250"	⅞"	12,200	**493Z90**
		0.093"	⅞"	12,200	**494A01**
	6"	0.250"	⅝"-11	10,100	**493Z93**
		0.250"	⅞"	10,100	**493Z92**
	7"	0.250"	⅝"-11	8700	**493Z95**
		0.250"	⅞"	8700	**493Z94**
	9"	0.250"	⅝"-11	6600	**493Z97**
		0.250"	⅞"	6600	**493Z96**
Sait					
For Ferrous Metal, Stainless					
Saitech Ultimate Performance™	4½"	¼"	⅝"-11	13,300	**1AUH5**
		¼"	⅝"-11	13,300	**4AYF3**
		¼"	⅞"	13,300	**2KMH8**
	7"	¼"	⅝"-11	8500	**1AUF5**
	9"	¼"	⅝"-11	6600	**1AUF9**
		¼"	⅞"	6600	**2KMJ1**
Saitech™	4"	0.045"	⅝"	19,000	**1AUB8**
	4½"	0.045"	⅝"-11	13,300	**31NJ35**
		0.045"	⅞"	13,300	**1AUC1**
		3/32"	⅝"-11	13,300	**35KH16**
	5"	0.045"	⅝"-11	12,200	**31NJ38**
		0.045"	⅞"	12,200	**1AUC2**
	6"	0.045"	⅞"	10,200	**1AUC3**
	7"	0.045"	⅞"	8500	**1AUC4**

XL-WL Deburring Wheel





Multi-Finishing Wheel

Cut-and-Polish Wheel



3M

MERIT abrasives

Deburring/Finishing Wheels

XL-WL Deburring Wheels—Long-lasting Scotch-Brite™ wheels clean and deburr metal surfaces and threads while eliminating the danger of loose, flying wires. Wheels polish and finish metals or composites. Fit standard motor shaft sizes (½" to 1").

Multi-Finishing Wheels—Produce uniform grain finishes on stainless steel and other metals.

Cut-and-Polish Wheel—Heavy-duty wheel for aggressive blending and finishing. Accessories (available separately) allow fit to standard motor shaft sizes (½" to 1").

Deburring and Finishing Wheels—Non-woven spindle-mounted disc wheels are excellent for deburring, blending, and finishing. Conformable construction leaves a smooth, polished finish, even on oddly shaped pieces and surfaces. ¼" steel mandrel.

Dia.	W	Arbor Hole	Density	Abrasive Material	Grade	Max. RPM	Mfr. Model	Item No.
XL-WL Deburring Wheels								
6 in	½ in	1 in	Hard (8)	Aluminum Oxide	Medium	6,000 RPM	XL-WL	**4ZR80**
	½ in	1 in	Hard (8)	Silicon Carbide	Fine	6,000 RPM	XL-WL	**4ZR64**
	½ in	1 in	Hard (9)	Silicon Carbide	Fine	6,000 RPM	XL-WL	**4ZR46**
	1 in	1 in	Hard (8)	Aluminum Oxide	Medium	6,000 RPM	XL-WL	**4ZR81**
	1 in	1 in	Hard (8)	Silicon Carbide	Fine	6,000 RPM	XL-WL	**4ZR65**
	1 in	1 in	Hard (9)	Silicon Carbide	Fine	6,000 RPM	XL-WL	**4ZR26**
8 in	⅜ in	3 in	Hard (8)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZT03**
	½ in	3 in	Hard (8)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR99**
	½ in	3 in	Hard (9)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR47**
	1 in	3 in	Hard (8)	Aluminum Oxide	Medium	4,500 RPM	XL-WL	**4ZR82**
	1 in	3 in	Hard (8)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR66**
	1 in	3 in	Hard (9)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR27**
	2 in	3 in	Hard (8)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR67**
	2 in	3 in	Hard (9)	Silicon Carbide	Fine	4,500 RPM	XL-WL	**4ZR28**
Multi-Finishing Wheels								
6 in	1 in	1 in	Soft (2)	Silicon Carbide	Coarse	6,000 RPM	MU-WL	**4ZR70**
	2 in	1 in	Soft (2)	Silicon Carbide	Coarse	6,000 RPM	MU-WL	**4ZR71**
	2 in	1 in	Soft (2)	Silicon Carbide	Medium	6,000 RPM	MU-WL	**4ZR72**
8 in	2 in	3 in	Soft (2)	Silicon Carbide	Medium	4,500 RPM	MU-WL	**4ZR73**
Cut-and-Polish Wheel								
6 in	1 in	1 in	Medium (5)	Aluminum Oxide	Fine	6,000 RPM	CP-WL	**4ZP96**
Deburring and Finishing Wheel								
2 in	1 in	—	Soft (2)	Aluminum Oxide	Medium	12,000 RPM	08834131551	**464P89**
3 in	½ in	—	Soft (4)	Aluminum Oxide	Medium	8,000 RPM	08834131496	**464P88**
4 in	½ in	—	Soft (4)	Aluminum Oxide	Medium	6,000 RPM	08834131564	**464P90**
5 in	½ in	—	Soft (5)	Aluminum Oxide	Medium	4,000 RPM	08834131570	**464P91**



No. 40AL47

No. 40AL57



3M

Unitized Wheels

- ¼" arbor hole mounting
- Medium grade
- Precision-shaped ceramic grain abrasive

Ceramic grain wheels can be used for deburring and finishing in both OEM and maintenance applications. The long-wearing grain extends wheel life and produces minimal dust and debris, to reduce wear and wheel loading, and help improve efficiency.

Dia.	W	Max. RPM	Mfr. Model	Item No.
Scotch-Brite™ Deburring and Finishing Wheels				
2"	⅛"	22,100	DP-UW	**40AL47**
	¼"	22,100	DP-UW	**40AL48**
	½"	22,100	DP-UW	**40AL49**
	¾"	22,100	61500300704	**40AL50**
	1"	22,100	DP-UW	**40AL51**
3"	⅛"	18,100	DP-UW	**40AL52**
	¼"	18,100	DP-UW	**40AL53**
	½"	15,100	DP-UW	**40AL54**
	¾"	15,100	DP-UW	**40AL55**
	1"	15,100	DP-UW	**40AL56**
Mandrel				
⅛" - ½", ¼" Shank		18,100	60440242273	**40AL57**



No. 4ZR83

3M

Unitized Deburring Wheels

Scotch-Brite™ EXL wheels deburr and polish titanium, special alloys, composites, and plastics, creating a fine finish. Cool running, clean, and no flying wires. 1" to 3" wheels are used on a straight shaft tool.

Dia.	W	Mounting Size	Density	Abrasive Material	Grade	Max. RPM	Mfr. Model	Item No.
XL-UR Series, Edge Deburring and Finishing Wheels								
2"	1⁹⁄₆₄"	TR	Soft (2)	Silicon Carbide	Fine	22,100	61500099215	**4YJY7**
	1⁹⁄₆₄"	TR	Soft (2)	Aluminum Oxide	Medium	22,100	61500099231	**4YJY9**
3"	1⁹⁄₆₄"	TR	Soft (2)	Silicon Carbide	Fine	15,100	61500099223	**4YJY8**
	1⁹⁄₆₄"	TR	Soft (2)	Aluminum Oxide	Medium	15,100	61500099249	**4YJZ1**
XL-UW Series, Deburring and Finishing Wheels								
1"	1"	³⁄₁₆"	Soft (2)	Silicon Carbide	Fine	30,100	61500057411	**4ZR83**
	1"	³⁄₁₆"	Hard (8)	Aluminum Oxide	Medium	35,100	61500057841	**6RV47**
	1"	³⁄₁₆"	Hard (8)	Aluminum Oxide	Coarse	35,100	61500057833	**4ZR89**
2"	¼"	¼"	Soft (2)	Silicon Carbide	Fine	16,100	61500060266	**6RV62**
3"	¼"	¼"	Soft (2)	Silicon Carbide	Fine	12,100	61500057445	**4ZR84**
	¼"	¼"	Soft (2)	Aluminum Oxide	Medium	12,100	61500079589	**4ZT07**
	¼"	⅜"	Soft (2)	Silicon Carbide	Fine	12,100	61500070372	**4ZT01**
	¼"	⅜"	Soft (2)	Aluminum Oxide	Medium	12,100	61500085404	**6RW57**
	¼"	⅜"	Medium (6)	Aluminum Oxide	Medium	18,100	61500074804	**6RW21**
	¼"	⅜"	Hard (8)	Aluminum Oxide	Medium	18,100	61500070406	**6RW05**
6"	½"	¼"	Soft (2)	Silicon Carbide	Fine	10,000	61500057452	**4ZR85**
	¼"	½"	Soft (2)	Silicon Carbide	Fine	5000	61500057726	**4ZR88**
	½"	½"	Soft (2)	Silicon Carbide	Fine	5000	61500122512	**4ZR87**
Mandrel for Scotch-Brite™ Wheels								
For Use with 1 x 1 x ³⁄₁₆" Wheels							936	**4ZR07**

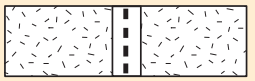
Toolroom Grinding, Truing & Dressing

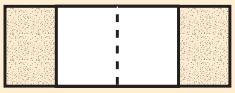
Don't see what you need online? Call **1-800-GRAINGER (472-4643)** for sourcing.

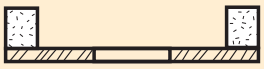
Vitrified Toolroom Wheels And Segments—Made from precision-engineered ceramic alumina, aluminum oxide, and silicon carbide materials, Norton toolroom wheels can be used in most ferrous and nonferrous MRO, small-job shop, and production operations. An excellent choice for surface grinding, tool and cutter grinding, and resharpening applications.

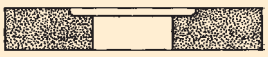
To see our full selection, go to **grainger.com/precisiongrinding**.

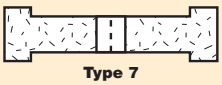
Type	Grainger.com Category
Type 1 Straight	Straight Grinding Wheels-Type 1
Type 2 Cylinder and Type 35 Plate Mounted	Cylinder and Plate Mounted Grinding Wheels
Type 5 and 7 Recessed	Recessed Grinding Wheels
Type 6 Straight Cup	Straight Cup Grinding Wheels
Type 11 Flaring Cup	Flaring Cup Grinding Wheels
Type 12 Dish	Dish Grinding Wheels-Type 12
Grinding Segments	Surface Grinding Segments


Type 1
Straight Wheel

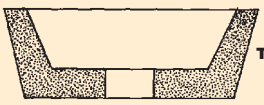

Type 2


Type 35

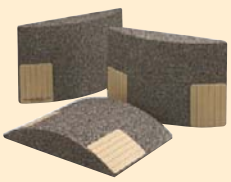

Type 5


Type 7


Type 6


Type 11


Type 12


Grinding Segments

Wheel Dressing—Dressing Sticks and Truing and Dressing Tools are designed to clean, shape, and open the face of tool room grinding tools, to help them run true.

To see our full selection, go to **grainger.com/wheeldressing**.

Grainger.com Category	Application
Dressing Sticks	Designed for offhand dressing (cleaning, shaping, or opening) the face of toolroom grinding wheels.
Diamond Truing and Dressing Tools	Designed to true (make a wheel round and run true) and dress (clean, shape, or open the wheel face) of toolroom grinding wheels.



Dressing Sticks


Truing Tool



Dressing Tool

Diamond and CBN Toolroom Grinding Wheels—Engineered to tackle your most-challenging applications, from grinding hardened steels and superalloys, to finishing materials such as glass, ceramics, and tough composites. They meet the stringent requirements of CNC cutting tool manufacturing and resharpening applications, including fluting, end fluting, gashing, and OD relief. Choose from a wide variety of forms, sizes, grades, and materials to fit your machines and meet your specific job requirements.

To see our full selection, go to **grainger.com/diamondcbngrinding**.



NORTON
SAINT-GOBAIN

Rough Portable Wheels, Cones, and Plugs

Designed for consistent, quality grinding performance in foundries, welding shops, fabrication facilities, steel mills, and shipyards. Typical uses include smoothing weld seams, cleaning castings, and preparing surfaces for plating or painting. Straight wheels, cones, and plugs are designed for use on horizontal/straight shaft grinders. Flaring cup wheels are designed for use on right angle portable cup grinders.

WHEEL SPECIFICATION	
ABRASIVE	**APPLICATION**
57A - Aluminum oxide	Good performance on steel, steel alloys, and iron
57AC - Aluminum oxide/Silicon carbide blend	Good performance on dirty, scale-covered steel parts
AZ - Zirconia alumina/Aluminum oxide blend	Better performance on steel, steel alloys, and iron
NZ - Zirconia alumina	Best performance on steel, steel alloys, and iron
37C - Silicon carbide	For masonry and nonsteel
BLUEFIRE - Ceramic/Zirconia	For steel, iron, and graphite foundry snagging jobs

Abrasive Wheel Diameter	Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Straight Grinding Wheels							
Type 1							
2 ½ in	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-R	21,700 RPM	**5GC51**
3 in	⅜ in	⅜ in	Aluminum Oxide	Gemini	57A24-R	18,080 RPM	**2D929**
	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-R5B7	12,100 RPM	**3UP17**
	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-P	18,080 RPM	**3UP16**
4 in	¼ in	⅜ in	Zirconia Alumina	BlueFire	Bluefire	15,280 RPM	**26ZX12**
6 in	1 in	⅝ in	Aluminum Oxide	Gemini	57A16-QS	8,000 RPM	**3UP18**
	1 in	⅝ in	Zirconia Alumina	Bluefire	4NZ14-RBSX406	8,000 RPM	**22UT41**
8 in	1 in	⅝ in	Zirconia Alumina	Bluefire	4NZ14-QBSX406	6,000 RPM	**22UT42**
	1 in	⅝ in	Zirconia Alumina	Bluefire	NZC16-QBSX406	6,000 RPM	**22UT43**

Abrasive Wheel Diameter	Back Dia.	Thickness	Rim Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Flaring Cup Grinding Wheels									
Type 11									
4 in	3"	2 in	¾"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	9,070 RPM	**2D922**
	3"	2 in	¾"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	9,070 RPM	**15K069**
	3"	2 in	¾"	⅝"-11	Zirconia Alumina	—	4NZ16-QBX406	9,070 RPM	**22UT39**
5 in	3¾"	2 in	1"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	7,260 RPM	**6A079**
	3¾"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	7,260 RPM	**15K070**
	3 13/16"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	7,260 RPM	**15K071**
6 in	4¾"	2 in	1"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000 RPM	**15K106**
	4¾"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000 RPM	**6A081**
	4¾"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57AC16-Q	6,000 RPM	**2D932**
	4¾"	2 in	1½"	⅝"-11	Silicon Carbide	Gemini	37C16-P	6,000 RPM	**5A879**
	4¾"	2 in	1½"	⅝"-11	Zirconia Alumina	Bluefire	NZC16-QBX406	6,000 RPM	**15K072**
	4¾"	2 in	½"	⅝"-11	Zirconia Alumina	—	4NZ16-QBX406	6,000 RPM	**22UT40**
	4¾"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ14-R	6,000 RPM	**26ZW99**
	4 13/16"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000 RPM	**15K102**
	4 13/16"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57AC16-Q	6,000 RPM	**15K103**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	Bluefire	NZC16-QBX406	6,000 RPM	**15K074**
	4 13/16"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	6,000 RPM	**15K073**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ14-R	6,000 RPM	**26ZX03**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ16-QBX406	6,000 RPM	**26ZX13**

Abrasive Wheel Diameter	Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Grinding Cones							
Type 16							
—	2½"	⅝"-11	Zirconia Alumina	BlueFire	AZ16-R	13,195 RPM	**26ZX07**
	3"	⅜"-24	Zirconia Alumina	BlueFire	AZ24-R	24,190 RPM	**26ZX04**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190 RPM	**26ZX05**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145 RPM	**26ZX06**
	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	20,735 RPM	**15K107**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	24,190 RPM	**15K108**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	18,145 RPM	**15K109**
1 ½ in	2½"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**1PYL1**
1 in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	36,290 RPM	**2D920**
1 ½ in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**2D917**
1 ¾ in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	20,740 RPM	**2D919**
2 ¾ in	3½"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	13,195 RPM	**1PYA3**
Type 17 (Square Tip)							
1 ½ in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**2D921**
2 in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145 RPM	**1PYL8**
Type 17R (Round Tip)							
—	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145 RPM	**26ZX14**
Grinding Plugs							
Type 18 (Square Tip)							
—	2½"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190 RPM	**26ZX01**
	2½"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**15K110**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190 RPM	**26ZX08**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145 RPM	**26ZX09**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ24-R	18,145 RPM	**26ZX10**
1 ½ in	2½"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**3UP14**
	2½"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	24,190 RPM	**1PYL9**
	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**2D918**
2 in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145 RPM	**1PYN4**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	18,145 RPM	**1PYN5**
Type 18R (Round Tip)							
—	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145 RPM	**26ZX02**
1 ½ in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190 RPM	**1PYN8**
2 in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145 RPM	**2D916**



No. 3UP16



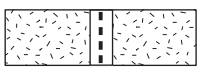
No. 6A079



No. 2D921



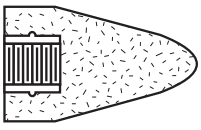
No. 2D916



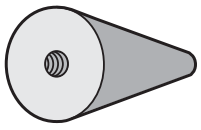
Type 1
Straight Wheel



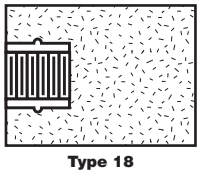
Type 11
Flaring Cup



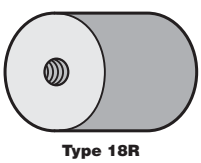
Type 16
Cones



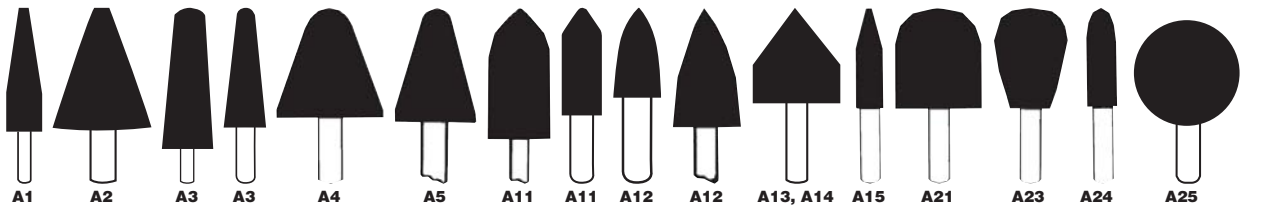
Type 17
Cones

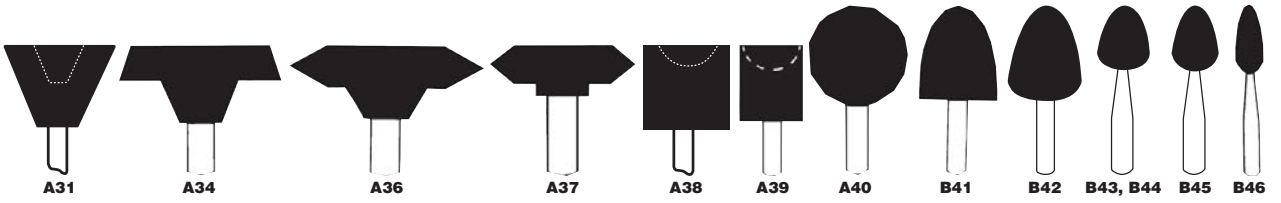


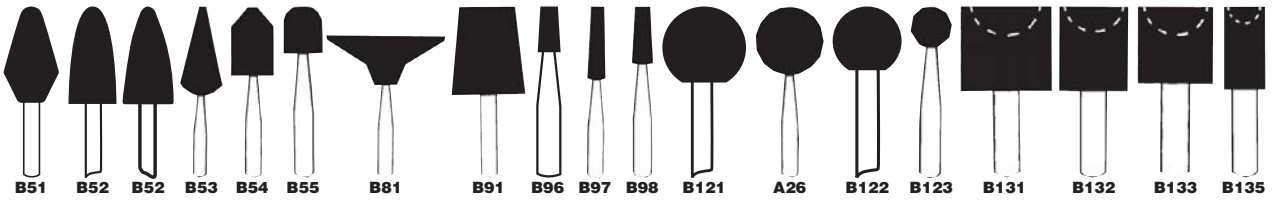
Type 18
Plugs



Type 18R
Plugs







Mounted Points

- Use on die or in-line/straight shaft grinders
- Max. RPM based on ½" overhang

Quantum® Vitrified—Best for high-volume operation. Ceramic alumina abrasive.

Gemini® Vitrified—Aluminum oxide abrasive 38A in a vitrified bond.

Cotton Fiber—Ideal for blending and finishing parts without changing part geometry. Aluminum oxide abrasive.

Charger® Resin—Made of self-sharpening zirconia alumina abrasive.

No. of Pieces	Spindle Dia.	Includes	Brand	Item No.
Vitrified Mounted Point Kits				
50	⅛"	(5) B42, B52, B97, B131, B122, W154, W164, W185, W215, and W163	Norton	**2LRJ9**
	⅛"	(5) A1, A5, A11, A21, A23, A26, A36, A39, W242 , W220 A80-HBF3	Norton	**4DDV5**
	¼"	(5) A1, A5, A11, A23, A21, A26, A36, A39, W242, and W220	Norton	**2LRJ8**
	¼"	(5) B42, B52, B97, B122, B131, W154, W164, W185, W215, W163 A80-HBF3	Norton	**4DDV6**

Shape	Dia.	Thick-ness	Spindle Dia.	Max. RPM	Grit	Item No.
Quantum® Vitrified Mounted Points						
Norton						
A1	¾"	2½"	¼"	20	80	**15K091**
A11	⅞"	2"	¼"	20	80	**15K092**
A12	11/16"	1¼"	¼"	48	60	**15K075**
A21	1"	1"	¼"	35	80	**15K094**
A23	¾"	1"	¼"	39	80	**15K093**
A25	1"	—	¼"	36	80	**15K076**
A26	⅝"	—	¼"	61	80	**15K095**
A36	1⅝"	⅜"	¼"	24	80	**15K096**
A38	1"	1"	¼"	35	80	**15K077**
A39	¾"	¾"	¼"	47	80	**15K097**
B42	½"	¾"	⅛"	34	80	**15K082**
B52	⅜"	¾"	⅛"	45	80	**15K083**
B97	⅛"	⅜"	⅛"	105	80	**15K084**
B122	⅜"	—	⅛"	62	80	**15K086**
B131	½"	½"	⅛"	35	80	**15K085**
W154	3/16"	½"	⅛"	71	80	**15K087**
W164	¼"	¾"	⅛"	46	80	**15K088**
W185	½"	½"	⅛"	35	80	**15K089**
W189	½"	2"	¼"	24	80	**15K078**
W208	¾"	2"	¼"	23	80	**15K079**
W215	1"	⅛"	⅛"	38	80	**15K090**
W220	1"	1"	¼"	26	80	**15K080**
W236	1½"	½"	¼"	25	80	**15K081**
Gemini® Vitrified Mounted Points						
Norton						
A1	¾"	2½"	¼"	20	36	**4F758**
A1	¾"	2½"	¼"	20	60	**4F759**
A2	1"	¼"	¼"	38	60	**15K113**
A3	1"	2¾"	¼"	16	36	**4F760**
A3	1"	2¾"	¼"	16	60	**4F761**
A4	1¼"	1¼"	¼"	31	60	**2D821**
A5	¾"	1⅛"	¼"	45	60	**2D822**
A5	¾"	1⅛"	¼"	45	36	**4F762**
A11	⅞"	2"	¼"	20	60	**2D823**
A11	⅞"	2"	¼"	20	36	**4F763**
A12	11/16"	1¼"	¼"	48	36	**4F764**
A12	11/16"	1¼"	¼"	48	60	**4F765**
A13	1⅛"	1¼"	¼"	34	60	**4F766**
A14	11/16"	⅞"	¼"	56	60	**4F767**
A15	¼"	1 1/16"	¼"	73	60	**2D824**
A21	1"	1"	¼"	35	60	**2D825**
A23	¾"	1"	¼"	39	60	**2D826**
A24	¼"	¾"	¼"	77	60	**2D827**
A25	1"	Ball	¼"	36	60	**4F769**
A26	⅜"	Ball	¼"	61	60	**2D828**
A31	1⅜"	1"	¼"	28	60	**4F771**
A34	1½"	⅜"	¼"	25	60	**2D830**
A36	1⅝"	⅜"	¼"	24	60	**2D831**
A37	1¼"	¼"	¼"	31	60	**2D832**
A38	1"	1"	¼"	35	60	**4F773**
A39	¾"	¾"	¼"	47	60	**2D833**
A40	¾"	—	¼"	47	60	**2D834**
B41	⅝"	⅝"	⅛"	34	60	**2D835**
B42	½"	¾"	⅛"	34	60	**2D836**
B43	¼"	5/16"	⅛"	81	60	**2D837**
B44	1/32"	⅜"	⅛"	68	60	**2D838**
B45	⅜"	5/16"	⅛"	104	60	**2D839**
B46	⅛"	5/16"	⅛"	105	60	**2D840**
B51	1/16"	¾"	⅛"	45	60	**15K114**
B52	⅜"	¾"	⅛"	45	60	**2LRK2**
B52	⅜"	¾"	¼"	45	60	**4F774**
B52	⅜"	¾"	⅛"	45	90	**15K115**
B53	5/16"	⅝"	⅛"	60	60	**2D841**
B54	¼"	½"	⅛"	60	60	**2D842**
B55	⅛"	¼"	⅛"	105	60	**2D843**
B81	¾"	3/16"	⅛"	51	60	**2D846**
B91	½"	⅝"	⅛"	35	60	**2D848**
B96	⅛"	¼"	⅛"	105	60	**2D852**
B96	⅛"	¼"	⅛"	105	90	**15K116**
B97	⅛"	⅜"	⅛"	105	60	**2D850**
B98	3/32"	¼"	⅛"	105	60	**2D853**
B121	½"	Ball	⅛"	45	60	**15K117**
B122	⅜"	Ball	⅛"	62	60	**2D856**
B122	⅜"	Ball	⅛"	62	90	**15K118**
B123	3/16"	Ball	⅛"	104	60	**2D857**
B124	⅛"	Ball	⅛"	105	90	**15K119**
B131	½"	½"	⅛"	35	60	**2D859**
B132	⅜"	½"	⅛"	45	60	**2D860**
B133	⅜"	⅜"	⅛"	54	60	**2D861**
B134	5/16"	⅜"	⅛"	62	60	**4F779**
B135	¼"	½"	⅛"	60	60	**2D862**
W144	⅛"	¼"	⅛"	105	60	**2D865**
W145	⅛"	⅜"	⅛"	105	60	**2D866**
W146	⅛"	½"	⅛"	105	60	**2D867**
W152	3/16"	¼"	⅛"	105	60	**2D868**
W153	3/16"	⅜"	⅛"	81	60	**2D869**
W154	3/16"	½"	⅛"	71	60	**2D870**
W160	¼"	¼"	⅛"	81	60	**4F780**
W162	¼"	⅜"	⅛"	68	60	**2D871**
W163	¼"	½"	⅛"	60	60	**2D872**
W164	¼"	¾"	⅛"	46	60	**2D873**
W170	5/16"	½"	⅛"	53	60	**2D875**
W175	⅜"	⅜"	⅛"	54	60	**2D876**
W176	⅜"	½"	⅛"	45	60	**4F781**
W177	⅜"	¾"	⅛"	34	60	**2D877**
W178	⅜"	1"	⅛"	26	60	**2D878**
W185	½"	½"	⅛"	35	60	**2LRK3**
W185	½"	½"	¼"	35	60	**4F782**
W186	½"	¾"	¼"	51	60	**2D880**
W188	½"	1½"	¼"	30	60	**2D882**
W189	½"	2"	¼"	24	60	**2D883**
W196	⅝"	1"	¼"	35	60	**2D885**
W200	¾"	⅛"	⅛"	51	60	**2D887**
W200	¾"	⅛"	⅛"	51	90	**15K120**
W204	¾"	¾"	¼"	43	60	**2D888**
W205	¾"	1"	¼"	35	60	**2D889**
W208	¾"	2"	¼"	23	60	**2D892**
W215	1"	⅛"	⅛"	38	60	**2D893**
W216	1"	¼"	¼"	38	60	**15K121**
W218	1"	½"	¼"	38	60	**2D896**
W220	1"	1"	¼"	26	60	**4F785**
W221	1"	1½"	¼"	19	60	**2D897**
W222	1"	2"	¼"	16	60	**2D898**
W230	1¼"	1¼"	¼"	20	60	**2D902**
W235	1½"	¼"	¼"	25	60	**2D903**
W236	1½"	½"	¼"	25	60	**4F787**
W237	1½"	1"	¼"	23	60	**2D904**
W238	1½"	1½"	¼"	16	60	**2D905**
W242	2"	1"	¼"	19	60	**2D906**
Cotton Fiber Mounted Points						
Norton						
W163	¼"	½"	⅛"	60	80	**2LRK4**
W220	1"	1"	¼"	26	80	**2LRK1**
Charger® Resin Mounted Points						
Norton						
A1	¾"	2½"	¼"	20	30	**3UN58**
A3	1"	2¾"	¼"	16	30	**3UN59**
A5	¾"	1¼"	¼"	45	30	**3UN60**
A11	⅞"	2"	¼"	20	30	**3UN61**
W189	½"	2"	¼"	24	30	**3UN62**
W207	¾"	1½"	¼"	24	30	**3UN64**
W208	¾"	2"	¼"	19	30	**3UN65**
W220	1"	1"	¼"	26	30	**6PC06**
W221	1"	1½"	¼"	19	30	**3UN66**
W222	1"	2"	¼"	16	30	**3UN67**
Aluminum Oxide Mounted Points						
GA						
A3	1"	2¾"	¼"	11	60	**447T13**
A12	11/16"	1¼"	¼"	27	60	**447T12**
B52	⅜"	¾"	⅛"	21	60	**447T14**
B53	5/16"	⅜"	⅛"	26	60	**447T09**
B121	½"	½"	⅛"	21	60	**447T15**
B122	⅜"	⅜"	⅛"	27	60	**447T11**

NORTON SAINT-GOBAIN

Abrasive Sharpening Files and Stones

Crystolon—Fast-cutting silicon carbide abrasive.

Diamond—Diamond abrasive is nickel-bonded to solid steel.

Hard Arkansas—Natural novaculite abrasive produces a fine edge and polished finish.

India—Smooth-cutting aluminum oxide abrasive.


Square File


Triangular File


Round File


Knife Blade File


Combination Grit Benchstone


Single Grit Benchstone


Machine Knife Stone

Description	Grade	L	H	Item No.
Crystolon/India Stone				
Combination Grit Benchstone	Medium/Fine	6"	1"	1RDG4
Crystolon File				
Utility	Coarse	14"	—	1RCZ7
Crystolon Stones				
Combination Grit Benchstone	Coarse/Fine	4"	—	1RDG9
	Coarse/Fine	4"	5/8"	1RDG7
	Coarse/Fine	5"	3/4"	1RDG5
	Coarse/Fine	6"	1"	6A434
	Coarse/Fine	8"	1"	6A435
	Coarse/Fine	12"	1 1/2"	1RDH1
	Coarse/Fine	11 1/2"	—	1RDH3
Machine Knife	Coarse/Fine	4"	1 1/2"	4B126
Round Edge Slip	Fine	4 1/2"	1/2"	4B125
Rubbing Brick	Coarse	8"	2"	1RDE4
Rubbing Brick, Fluted	Coarse	8"	2"	1RDE3
Single Grit Benchstone	Fine	8"	1"	1RDA4
	Medium	4"	1/4"	4DDT3
Utility	Coarse/Fine	14 3/4"	—	1RCZ5
	Medium	14 3/4"	—	1RCZ2
Diamond Stone				
Single Grit Benchstone	Super Fine	6"	1/4"	1RDA8
Economy Stones				
Combination Grit	Coarse/Fine	6"	3/4"	1RDF5
	Coarse/Fine	8"	3/4"	1RDF3
	Coarse/Fine	8"	1"	1RDF4
Hard Arkansas Files				
Flat	Ultra Fine	3"	3/8"	1RDG3
Knife Blade	Ultra Fine	3"	3/4"	1RDG2
Pointed	Ultra Fine	3"	1/4"	1RDF8
Round	Ultra Fine	3"	1/4"	1RDE6
Square	Ultra Fine	3"	1/4"	1RCX6
	Ultra Fine	3"	3/8"	1RCX4
	Ultra Fine	3"	1/2"	1RCX8
Triangle	Ultra Fine	3"	1/4"	1RCW2
	Ultra Fine	3"	1/2"	1RCW5
Hard Arkansas Stones				
Penknife Benchstone	Ultra Fine	3"	3/8"	1RDD7
	Ultra Fine	4"	3/8"	1RDB7
Round Edge Slip	Ultra Fine	4"	3/8"	6A452
Single Grit Benchstone	Ultra Fine	4"	3/4"	1RDB5
	Ultra Fine	6"	1/2"	4B106
	Ultra Fine	6"	3/4"	1RDA6
	Ultra Fine	8"	3/4"	1RDA2
India/Hard Arkansas File Set				
10-Piece	Fine/Ultra Fine	—	—	4B124
India Files				
Half Round	Fine	4"	3/8"	4B116
	Fine	4"	1/2"	4B118
	Medium	4"	3/8"	4B117
	Medium	4"	1/2"	4B119
Knife Blade	Fine	4"	1/8"	6A450
	Medium	4"	1"	6A451
Pointed	Fine	3"	5/16"	1RDF6
	Medium	3"	5/16"	1RDF7
Round	Fine	4"	1/4"	4B120
	Fine	4"	3/8"	4B121
	Fine	4"	1/2"	4B122
	Medium	4"	1/4"	6A448
	Medium	4"	3/8"	6A449
	Medium	4"	1/2"	4B123
Round, Tapered	Medium	4"	1/2"	1RDE5

Description	Grade	L	H	Item No.
Silversmith	Fine	4"	1/2"	1RDD9
	Medium	4"	1/2"	1RDE1
Silversmith, Tapered	Medium	4"	1/2"	1RDD8
Square	Coarse	4"	1/2"	1RCX2
	Fine	4"	1/4"	4B108
	Fine	4"	3/8"	4B109
	Fine	4"	1/2"	6A442
	Fine	6"	1/2"	1RCW9
	Fine	6"	5/8"	4B111
	Fine	6"	1"	4B113
	Medium	4"	1/4"	6A441
	Medium	4"	3/8"	4B110
	Medium	4"	1/2"	6A443
	Medium	6"	1/2"	6A444
	Medium	6"	5/8"	4B112
	Medium	6"	3/4"	1RCW7
	Medium	6"	1"	6A445
Triangle	Fine	4"	1/4"	1KYE9
	Fine	4"	3/8"	6A447
	Fine	6"	5/8"	3WF65
	Medium	4"	1/4"	1KYF2
	Medium	4"	3/8"	6A446
	Medium	4"	1/2"	4B115
	Medium	6"	1/2"	1KYE7
India Stones				
Combination Grit Benchstone	Coarse/Extra Fine	6"	1"	4F756
	Coarse/Fine	4"	5/8"	1RDG6
	Coarse/Fine	4"	1"	1RDG8
	Coarse/Fine	6"	1"	6A436
	Coarse/Fine	8"	1"	6A437
	Coarse/Fine	11 1/2"	—	1RDH2
Gouge	Fine	6"	—	1RCY1
Reamer	Fine	5"	3/16"	1RCY5
	Medium	5"	3/16"	1RCY7
	Medium	6"	1/4"	1RCY3
	Medium	4 1/2"	5/16"	1RCY9
Round Edge Slip	Fine	4 1/2"	1 3/4"	1RDE7
	Medium	4"	1"	4DDT2
	Medium	4 1/2"	1 3/4"	1RDE9
	Medium	4 1/2"	1 3/4"	1RDE8
Single Grit Benchstone	Fine	4"	1/4"	1RDB9
	Fine	4"	1/2"	1RDD5
	Fine	5"	5/8"	1RDB3
	Fine	6"	1"	1RDB1
	Fine	8"	1"	6A439
	Medium	4"	1/4"	1RDD3
	Medium	4"	1/2"	1RDD6
	Medium	6"	1"	6A438
	Medium	8"	1"	6A440
Sickle and Scythe Stone				
Rectangular	Coarse	10"	3/4"	1RCZ9
Waterstones				
Combination Grit	Course/Fine	8"	1"	1KYB9
	Extra Fine/ UltraFine	8"	1"	1KYB8
	Fine/Extra Fine	8"	1"	1KYB7
Single Grit	Coarse	8"	1"	1KYC9
	Ultra Fine	8"	1"	1KYC7
	Ultra Fine	8"	1"	1KYC2
	Very Fine	8"	1"	1KYC4
Single Grit, Pk. of 4	Coarse/Fine/Extra Fine/Ultra Fine	—	—	1KYD2

NORTON SAINT-GOBAIN

Abrasive Sharpening Stone Kits

No. 2KMV7 sharpens woodworking tools.

No. 2KMV8 is used for deburring, chamfering, radiusing, and fitting delicate metal parts.


No. 2KMV7


No. 2KMV8

No. of Pieces	Includes	Mfr. Model	Item No.
27	Durable Vinyl Roll with (1) Auger Bit Stone, (6) Carving Tool Slip, (2) Diamond, (1) Gouge, (2) Knife Blade, (6) Round Edge Slip, (1) Round, (1) Round Tapered, (2) Square, (2) Taper Shape, (1) Taper Triangular and (2) Triangular Files	61463654521	2KMV7
35	Durable Vinyl Roll with (1) Auger Bit Stone, (3) Benchstone, (1) Bevel, (2) Diamond, (1) Flat, (1) Half Round, (1) India Point, (2) Knife Blade, (1) Oval, (1) Penknife, (1) Pointed, (1) Reamer Stone, (2) Round Edge Slip, (5) Round, (8) Silversmith, (2) Square, (1) Taper Round, (1) Taper Triangle, and (2) Triangular Files	61463686841	2KMV8

The Operational Advantages of Power Brushes

THEY DON'T REMOVE BASE MATERIAL

The impact action of the wire tips of a rotating brush behave in the same manner as the media in a blasting operation and they have the same ability to separate surface contaminants without damaging the substrate.

Its compliant nature makes it an excellent choice for removing burrs and blending sharp edges without changing overall part dimensions after sawing, cutting, grinding, and machining operations.

NON-LOADING

Unlike bonded, coated, and non-woven abrasive products, power brushes will not load when used on softer materials or when removing paint or similar coatings from a harder surface. Because a power brush consists of a collection of individual wire filaments, there is no place for debris to accumulate and prevent the sharp wire tips from striking the work.

SELF-SHARPENING

As a power brush is used, the wire tips will naturally tend to wear to a point due to contact with the working surface. It is possible to take advantage of this self-sharpening action by periodically switching the mounting position of wheel brushes to maintain their speed and effectiveness.

WEILER GA GRAINGER APPROVED

Arbor-Mount Grinder Wire Brushes

All brushes are made with high-tensile, heat-treated carbon steel wire, except where otherwise specified.

Crimped Wire Cup—Greater brushing flexibility for larger, flat surfaces and relatively fine finish.

Knot Wire Cup—For tight operations, corners and angle welds, curved surfaces, and pipe bevel cleaning. Double-row brush is for aggressive action in severe applications.

Twist Wire Wheel—For broader cleaning coverage, deburring, edge blending, and finishing. 3" wheels are used on straight grinders; 4" wheels are used on small angle grinders; and 6" wheels are used on bench and right angle grinders. Stainless steel brushes are recommended for aluminum, nonferrous alloyed metals, and stainless steel.

Knot Wire Wheel—Saucer-shaped radial wheels provide heavy-duty brushing and material removal, and still maintain some flexibility for cleaning filet welds and reaching into corners. Use with right angle grinders.

Stringer Bead Twist Wheel—Narrow brush face for stringer weld, piping, pipe grooves, and other hard-to-reach areas. Stainless steel brushes are recommended for aluminum, nonferrous alloyed metals, and stainless steel.



Crimped Wire Cup Brush



Twist Wire Wheel Brush



Knotted Wire Cup Brush



Stringer Bead Twist Wheel Brush

Brush Dia.	Wire Dia.	Arbor Hole Size	Trim Length	Max. RPM	Brand	Item No.
Crimped Wire Cup						
Carbon Steel						
2¾"	0.020"	⅜"-24	1"	14,000	Weiler	**5HD66**
3"	0.014"	⅜"-24	1"	14,000	Weiler	**5HD67**
	0.014"	½"-13	1"	14,000	Weiler	**3AC12**
	0.014"	⅝"-11	1"	14,000	Weiler	**3AC13**
	0.014"	M10 x 1.25mm	1"	14,000	Weiler	**3AC10**
3½"	0.014"	⅝"-11	⅞"	12,000	Weiler	**6JXE3**
4"	0.014"	⅝"-11	1⅜"	10,200	Weiler	**4F715**
	0.020"	⅝"-11	1⅜"	10,200	Weiler	**5X893**
5"	0.020"	⅝"-11	1¼"	9000	Weiler	**4F716**
6"	0.014"	⅝"-11	1¼"	6600	Weiler	**4F717**
	0.020"	⅝"-11	1¼"	6600	Weiler	**5X894**
Stainless Steel						
3½"	0.014"	⅝"-11	⅞"	12,000	Weiler	**1PAJ9**
4"	0.020"	⅝"-11	1⅜"	10,200	Weiler	**1PAK1**
Crimped Wire Wheels						
Carbon Steel						
2"	0.014"	½"	½"	20,000	GA	**443N44**
3"	0.014"	½"	1"	20,000	GA	**443M47**
	0.014"	½"	1"	20,000	GA	**443N32**
4"	0.008"	½"	⅞"	12,500	GA	**443P16**
	0.008"	½"	⅞"	6000	GA	**443N71**
	0.012"	½"	⅞"	12,500	GA	**443P06**
	0.012"	½"	⅞"	6000	GA	**443P11**
	0.014"	½"	⅞"	6000	GA	**443M81**
	0.014"	½"	⅞"	6000	GA	**443N55**
6"	0.008"	⅝"	1¼"	6000	GA	**443N21**
	0.008"	⅝"	1⁹⁄₁₆"	6000	GA	**443M95**
	0.009"	⅝"	1¼"	6000	GA	**443M68**
	0.009"	⅝"	1⁹⁄₁₆"	6000	GA	**443M93**
	0.012"	⅝"	1¼"	6000	GA	**443M49**
	0.012"	⅝"	1⁹⁄₁₆"	6000	GA	**443M91**
	0.014"	⅝"	1¼"	6000	GA	**443M45**
	0.014"	⅝"	1¼"	6000	GA	**443M58**
	0.014"	⅝"	1¼"	6000	GA	**443M97**
	0.014"	⅝"	1¼"	6000	GA	**443N80**
	0.014"	⅝"	1⁹⁄₁₆"	4500	GA	**443N51**
	0.014"	⅝"	1⁹⁄₁₆"	6000	GA	**443M67**
	0.014"	⅝"	1⁹⁄₁₆"	6000	GA	**443N14**
	0.014"	2"	1¼"	6000	GA	**443N11**
7"	0.014"	⅝"	1⁹⁄₁₆"	6000	GA	**443M78**
	0.014"	⅝"	1⁹⁄₁₆"	6000	GA	**443M88**
8"	0.008"	⅝"	1⅜"	4500	GA	**443M21**
	0.014"	⅝"	1¾"	6000	GA	**443M11**
	0.014"	⅝"	1⅜"	4500	GA	**443M40**
	0.014"	2"	1¼"	4500	GA	**443N10**
	0.014"	2"	1¾"	4500	GA	**443M42**
	0.014"	2"	1¾"	4500	GA	**443N83**
	0.014"	2"	1⅜"	4500	GA	**443P26**
	0.012"	2"	2"	3600	GA	**443N62**
10"	0.014"	¾"	2"	4000	GA	**443N01**
	0.014"	2"	2"	3600	GA	**443M94**
	0.014"	2"	2"	4000	GA	**443N89**
	0.014"	2"	1¾"	4000	GA	**443N45**
	0.020"	2"	2"	3600	GA	**443N43**
Stainless Steel						
3"	0.014"	½"	1"	20,000	GA	**443M70**
6"	0.012"	⅝"	1¼"	6000	GA	**443N03**
	0.012"	⅝"	1⁹⁄₁₆"	4500	GA	**443N16**
8"	0.012"	2"	1⅜"	4500	GA	**443P44**
Knotted Wire Cup						
Carbon Steel						
2¾"	0.014"	⅝"-11	1"	14,000	Weiler	**6JXD9**
	0.020"	½"-13	1"	14,000	Weiler	**3AC08**
	0.020"	⅝"-11	1"	14,000	Weiler	**3AC09**
	0.020"	M10 x 1.25mm	1"	14,000	Weiler	**3AC06**
3½"	0.014"	⅝"-11	1¼"	9000	Weiler	**2FZ16**
	0.023"	⅝"-11	⅞"	13,000	Weiler	**1PAJ7**
4"	0.014"	⅝"-11	1¼"	10,200	Weiler	**4F713**
	0.023"	⅝"-11	1¼"	10,200	Weiler	**5X891**
5"	0.023"	⅝"-11	1⅜"	7000	Weiler	**4F714**
6"	0.014"	⅝"-11	1⅜"	6600	Weiler	**3H593**
	0.023"	⅝"-11	1⅜"	6600	Weiler	**5X892**
	0.023"	⅝"-11	1⅜"	6600	Weiler	**2FZ15** *
	0.035"	⅝"-11	1⅜"	6600	Weiler	**6JXD5**
Stainless Steel						
2¾"	0.020"	⅝"-11	1"	14,000	Weiler	**1PAJ6**
3½"	0.023"	⅝"-11	⅞"	13,000	Weiler	**1PAJ8**
4"	0.014"	⅝"-11	1¼"	10,200	Weiler	**1PAK2**
	0.023"	⅝"-11	1¼"	10,200	Weiler	**1PAH5**
Knotted Wire Wheels						
Carbon Steel						
3"	0.014"	½"	⅝"	25,000	GA	**443M74**
4½"	0.020"	⅝"	1"	15,000	Weiler	**6JXE9**
6"	0.020"	⅝"-11	1¼"	12,500	GA	**443N31**
Stainless Steel						
4"	0.014"	⅝"	⅞"	6000	Weiler	**1PAJ5**
4½"	0.014"	⅝"	1"	15,000	Weiler	**6JXE7**
Steel						
4"	0.020"	⅜"	⅞"	20,000	GA	**443N02**
Stringer Bead Wheel						
Carbon Steel						
4"	0.020"	⅜"	⅞"	20,000	Weiler	**5HD69**
	0.020"	⅝"	⅞"	20,000	Weiler	**3AC21**
	0.020"	M10 x 1.25mm	⅞"	20,000	Weiler	**3AC18**
	0.020"	M10 x 1.50mm	⅞"	20,000	Weiler	**3AC19**
4½"	0.020"	⅝"	¹³⁄₁₆"	15,000	Weiler	**6JXH8**
5"	0.020"	⅝"	⅞"	9000	Weiler	**3H523**
6"	0.020"	⅝"	1⅛"	12,500	Weiler	**3H505**
	0.023"	⅝"	1¼"	12,500	Weiler	**3H503**
	0.023"	⅝"	1⅜"	12,500	Weiler	**5X890**
	0.023"	⅝"	1⅜"	9000	Weiler	**3A200**
6⅞"	0.020"	⅝"	1⅛"	20,000	Weiler	**3A201**
Stainless Steel						
4"	0.020"	⅜"	⅞"	20,000	Weiler	**5HD70**
	0.020"	⅝"	⅞"	20,000	Weiler	**3H609**
	0.020"	M10 x 1.25mm	⅞"	20,000	Weiler	**3H607**
5"	0.020"	⅝"	⅞"	20,000	Weiler	**1PAH6**
6"	0.020"	⅝"	1⅛"	12,500	Weiler	**1PAH7**
6⅞"	0.020"	⅝"	1⅛"	20,000	Weiler	**3H525**
Twisted Wire Wheels						
Carbon Steel						
3"	0.012"	½"	⅝"	20,000	Weiler	**6JXC4**
	0.014"	½"	⅝"	20,000	Weiler	**3A198**
4"	0.014"	½"	⅝"	20,000	GA	**443N60**
	0.014"	½"	⅞"	12,500	Weiler	**3A199**
	0.014"	⅝"	⅞"	20,000	Weiler	**6JXH3**
	0.014"	⅝"	⅞"	20,000	GA	**443N06**
	0.020"	⅜"-24	⅞"	20,000	GA	**443N78**
	0.020"	½"	⅞"	20,000	Weiler	**3AC16**
	0.020"	½"	⅞"	20,000	Weiler	**6JXC7**
	0.020"	⅝"-11	⅞"	20,000	Weiler	**3AC17**
	0.020"	⅝"-11	⅞"	20,000	GA	**443M01**
	0.020"	⅝"-11	⅞"	20,000	GA	**443M07**
	0.020"	⅝"-11	⅞"	20,000	GA	**443M12**
	0.020"	M10 x 1.25mm	⅞"	20,000	Weiler	**3AC14**
	0.020"	M10 x 1.25mm	⅞"	20,000	GA	**443N64**
	0.020"	M10 x 1.50mm	⅞"	20,000	Weiler	**3AC15**
5"	0.020"	⅝"-11	⅞"	12,500	GA	**443M53**
6"	0.014"	⅝"	1¼"	12,500	Weiler	**4F718**
	0.014"	⅝"	1¼"	9000	GA	**443M71**
	0.020"	⅝"-11	1"	12,500	GA	**443P12**
	0.020"	⅝"	1¼"	9000	GA	**443N70**
	0.023"	⅝"	1⅜"	12,500	Weiler	**6JXC5**
	0.023"	⅝"	1⅜"	12,500	Weiler	**6JXC8**
	0.023"	⅝"	1⅜"	4500	Weiler	**3H467**
7"	0.020"	⅝"-11	1½"	9000	GA	**443M62**
8"	0.020"	⅝"	1¼"	8500	GA	**443M73**
	0.023"	⅝"	1⅝"	6000	Weiler	**6JXD2**
Stainless Steel						
3"	0.014"	½"	⅝"	20,000	Weiler	**4F723**
4"	0.014"	½"	⅞"	20,000	Weiler	**4F724**
	0.014"	⅝"-11	⅞"	20,000	GA	**443M25**
	0.020"	⅜"	⅞"	20,000	Weiler	**5HD68**
	0.020"	⅝"-11	⅞"	20,000	GA	**443M29**
	0.020"	⅝"-11	⅞"	20,000	GA	**443M48**
5"	0.020"	⅝"-11	1"	12,500	GA	**443M82**
6"	0.016"	⅝"	1⅜"	12,500	Weiler	**4F719**
	0.020"	⅝"-11	1¼"	12,500	GA	**443N41**
8"	0.023"	⅝"	1⅝"	12,500	Weiler	**1PAH8**

*** Double Row Cup***

Find more Power Brushes at grainger.com/powerbrushes

Brush Dia.	Face Width	Wire Dia.	Arbor Hole Size	Max. RPM	Item No.
Carbon Steel					
Medium Brush Face					
6"	⅝"	0.014"	⅝"	12,500	**4F721**
	1"	0.014"	2"	6000	**3A196**
7"	¾"	0.014"	⅝"	6000	**5Y001**
8"	1"	0.014"	2"	20,000	**3A197**
10"	1⅛"	0.014"	2"	4500	**5Y010**
	1⅛"	0.012"	2"	4500	**5Y008**
	1⅛"	0.020"	2"	12,500	**3H483**
Narrow Brush Face					
4"	½"	0.008"	½"	12,500	**3A194**
	½"	0.012"	½"	12,500	**3H439**
	½"	0.014"	½"	20,000	**5X884**
	½"	0.014"	⅝"	20,000	**6JXE1**
6"	¾"	0.012"	⅝"	12,500	**3A195**
	¾"	0.006"	⅝"	12,500	**5X885**
	¾"	0.014"	⅝"	12,500	**5X886**
8"	¾"	0.014"	⅝"	6000	**5X887**
10"	¾"	0.014"	¾"	4500	**5Y005**
12"	¾"	0.006"	1¼"	3600	**6JXC2**
Wide Brush Face					
6"	⅞"	0.014"	⅝"	12,500	**4F722**
	1¼"	0.014"	2"	12,500	**5X888**
7"	⅞"	0.014"	⅝"	9000	**5Y002**
8"	1½"	0.014"	2"	6000	**5X889**
10"	1⅝"	0.014"	2"	4500	**3H471**
Stainless Steel					
Medium Brush Face					
8"	1"	0.012"	2"	20,000	**2FX91**
Narrow Brush Face					
4"	½"	0.006"	½"	20,000	**6JXC1**
6"	¾"	0.012"	⅝"	12,500	**4F720**
Wide Brush Face					
6"	1¼"	0.006"	2"	12,500	**6JXC3**



Medium Brush Face
No. 3A196



Wide Brush Face
No. 5X888

WEILER

Arbor-Mount Crimped Wire Wheels

For cleaning rust, scale, dirt, and paint; deburring; edge blending; roughening for adhesion; flash removal of rubber and plastic; finishing for appearance; and finish preparation prior to painting or plating.

Narrow Brush Face—Produces flexible brushing action; conforms to uneven surfaces or irregular shapes. 4" wheels are used on straight grinders.

Medium Brush Face—Greater fill density creates more aggressive brushing action.

Wide Brush Face—Heavy fill density creates minimal flexibility. Fast aggressive cutting covers more surface area in a single pass.

Polyflex® Encapsulated
No. 3A190



WEILER

Small-Diameter Wire Wheel Brushes

Use for burr removal in slots and narrow confined areas, rust removal, surface refinement and juncture blending, weld scale removal, and flash removal of rubber or plastic.

Brush Dia.	Arbor Hole Size	Shank Size	Face Width	Wire Dia.	Mfr. Model	Item No.
Crimped Wire Wheel, Arbor-Mount						
Carbon Steel						
1½"	⅜"	—	¼"	0.010"	96306	**2FZ25**
2"	½"	—	⅜"	0.014"	90113	**3A192**
3"	½"	—	⅝"	0.012"	93026	**6JXG3**
	½"	—	⅝"	0.014"	90114	**3A193**
Stainless Steel						
3"	½"	—	⅝"	0.014"	96135	**3H679**
Polyflex® Encapsulated Crimped Wire Wheel, Arbor-Mount						
Carbon Steel						
2"	½"	—	¼"	0.014"	90109	**3A190**
3"	½"	—	¼"	0.014"	90110	**3A191**
Polyflex® Encapsulated Crimped Wire Wheel, Stem-Mount						
Carbon Steel						
2"	—	¼"	¼"	0.012"	96146	**3H701**
3"	—	¼"	¼"	0.012"	90119	**3A206**



5-Pc. Utility

WEILER

Brush Assortment Kits

Utility—Starter kit for use on die grinders, air tools, and electric and pneumatic drills. Components fit on all ¼" and higher arbor size chucks. Ideal for deburring and smoothing metal surfaces.

Mini Grinder—Starter kit for 4½" and 5" mini right angle grinders. Fits all 5/8-11 threaded arbors. Use for deburring, deflashing, and removing rust, paint, and corrosion. Abrasive flap disc is used for grinding and finishing in one step.

Description	Includes	Mfr. Model	Item No.
3-Pc. Mini Grinder	Mfr. No.13131 4" Knotted Wheel with ⅝-11 Arbor, Mfr. No. 50519 4½" 60 Grit Flap Disc and Mfr. No. 13286 2¾" Knotted Cup with ⅝-11 Arbor	97417	**4KY54**
5-Pc. Utility	Mfr. No. 17615 3" Stem-Mounted Wire Wheel Brush, Mfr. No. 16973 3" Stainless Steel Brush, Mfr. No. 07724 ½" Dia. ¼" Shaft Arbor, Mfr. No. 14301 1¾" Stem-Mounted Cup, and Mfr. No. 10008 ¾" Crimped Wire End Brush	97418	**4KY53**

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done



Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**

NORTON SAINT-GOBAIN

Wire Brushes

Crimped Wire Brushes offer high brushing flexibility for light- to medium-duty brushing on flat or irregular surfaces. Knotted Wire Brushes have a more-rigid construction for use on more-demanding cutting and cleaning applications.

Carbon Steel can be used on carbon steel, iron, and wood surfaces.

Stainless Steel can be used on aluminum, brass, copper, stainless steel and wood surfaces.

Abrasive Nylon can be used on most surfaces.

Cup Brushes—Use with a right-angle grinder to remove rust, paint, scale, and concrete. Especially good on large surfaces, corners, recesses, and in other hard-to-reach areas.

End Brushes—Use with CNC machines, robotic, die grinders, and drill presses to clean and deburr recessed areas or inside diameters of tubes and pipes. Can also be used for rubber and plastic flash removal, paint and rust removal, and mold and tool polishing.

Wire Wheel Brushes—Use with a variety of machines for tough, aggressive surface cleaning applications. Leave a rougher finish.



No. 416L88



No. 416M32



No. 416M56

Bristle Type	Brush Dia.	Mounting Type	Arbor Hole Size	Abrasive Shank Type	Wire Dia.	Bristle Trim Length	Item No.
Cup Brush							
Carbon Steel							
Crimped Wire	1¾"	Shank	—	¼"	0.006"	½"	**416M77**
	1¾"	Shank	—	¼"	0.012"	½"	**416M48**
	2¼"	Shank	—	¼"	0.014"	⅝"	**416M66**
	2¾"	Arbor Hole	⅝"-11	—	0.014"	1"	**416M61**
	3"	Arbor Hole	⅝"-11	—	0.014"	13/16"	**416L82**
	4"	Arbor Hole	⅝"-11	—	0.014"	1⅛"	**416M07**
	5"	Arbor Hole	⅝"-11	—	0.014"	1⅜"	**416M06**
Knotted Wire	2¾"	Arbor Hole	⅝"-11	—	0.014"	⅞"	**416M65**
	2¾"	Arbor Hole	⅝"-11	—	0.020"	⅞"	**416M63**
	3"	Arbor Hole	⅝"-11	—	0.020"	⅞"	**416L83**
	3"	Arbor Hole	M10 x 1.25mm	—	0.020"	⅞"	**416M19**
	3½"	Arbor Hole	⅝"-11	—	0.020"	1⅜"	**416N27**
	4"	Arbor Hole	⅝"-11	—	0.020"	1⅛"	**416L93**
	6"	Arbor Hole	⅝"-11	—	0.020"	1⅜"	**416M03**
Stainless Steel							
Crimped Wire	2"	Shank	—	¼"	0.010"	⅝"	**416M37**
Knotted Wire	2¾"	Arbor Hole	⅝"-11	—	0.014"	⅞"	**416M28**
	3"	Arbor Hole	⅝"-11	—	0.020"	⅞"	**416L88**
End Brush							
Carbon Steel							
Crimped Wire	½"	Shank	—	¼"	0.006"	1"	**416N50**
	½"	Shank	—	¼"	0.010"	1"	**416M68**
	½"	Shank	—	¼"	0.020"	1"	**416N66**
	¾"	Shank	—	¼"	0.020"	⅞"	**416M17**
	¾"	Shank	—	¼"	0.020"	1"	**416N64**
	1"	Shank	—	¼"	0.014"	¾"	**416M14**
	1"	Shank	—	¼"	0.020"	1"	**416M10**
	1"	Shank	—	¼"	0.020"	⅞"	**416L98**
	1½"	Shank	—	¼"	0.020"	1"	**416N25**
	2"	Shank	—	¼"	0.010"	1⅛"	**416M92**
	3"	Shank	—	¼"	0.020"	1"	**416L94**
Knotted Wire	½"	Shank	—	¼"	0.004"	⅜"	**416N05**
	½"	Shank	—	¼"	0.006"	1⅛"	**416M26**
	½"	Shank	—	¼"	0.014"	1⅛"	**416M24**
	¾"	Shank	—	¼"	0.014"	⅞"	**416N38**
	¾"	Shank	—	¼"	0.020"	1⅛"	**416N17**
	1"	Shank	—	¼"	0.014"	1"	**416M59**
	1"	Shank	—	¼"	0.020"	1"	**416L85**
Stainless Steel							
Crimped Wire	¼"	Shank	—	5/16"	0.010"	⅜"	**416M69**
	½"	Shank	—	¼"	0.005"	1"	**416N13**
	½"	Shank	—	¼"	0.014"	1"	**416M25**
	1"	Shank	—	¼"	0.005"	1"	**416M56**
	1"	Shank	—	¼"	0.010"	1"	**416M89**

Bristle Type	Brush Dia.	Mounting Type	Arbor Hole Size	Abrasive Shank Type	Wire Dia.	Bristle Trim Length	Item No.
	¾"	Shank	—	¼"	0.020"	1"	**416M09**
	¾"	Shank	—	¼"	0.020"	1"	**416M02**
Knotted Wire	1"	Shank	—	¼"	0.006"	1⅛"	**416M31**
	1"	Shank	—	¼"	0.010"	1⅛"	**416M83**
	1"	Shank	—	¼"	0.014"	1"	**416M46**
	1"	Shank	—	¼"	0.020"	1"	**416L90**
Wire Wheel Brush							
Abrasive Nylon							
Knotted Wire	3"	Arbor Hole	⅝"	—	3.000"	15/16"	**416N11**
Carbon Steel							
Crimped Wire	1"	Arbor Hole	5/16"	—	0.008"	3/16"	**416M95**
	1½"	Shank	—	¼"	0.008"	¼"	**416M33**
	1½"	Shank	—	¼"	0.012"	⅜"	**416M94**
	1½"	Shank	—	¼"	0.014"	¼"	**416M41**
	2"	Shank	—	¼"	0.008"	7/16"	**416M44**
	2"	Shank	—	¼"	0.014"	7/16"	**416M42**
	2"	Shank	—	¼"	0.020"	7/16"	**416M45**
	2½"	Shank	—	¼"	0.008"	11/16"	**416M64**
	2½"	Shank	—	¼"	0.014"	11/16"	**416M47**
	3"	Shank	—	¼"	0.008"	¾"	**416N06**
	3"	Shank	—	¼"	0.014"	¼"	**416M27**
	3"	Shank	—	¼"	0.014"	¾"	**416M52**
	3"	Shank	—	¼"	0.020"	¾"	**416N10**
	4"	Shank	—	¼"	0.014"	1"	**416M40**
	4"	Arbor Hole	⅝"	—	0.014"	⅞"	**416M30**
	6"	Arbor Hole	⅝"	—	0.014"	1⅛"	**416L99**
	6"	Arbor Hole	⅜"	—	0.014"	1⅛"	**416M08**
	8"	Arbor Hole	⅝"	—	0.014"	1 9/16"	**416L86**
	8"	Arbor Hole	⅝"	—	0.014"	1 9/16"	**416L97**
	8"	Arbor Hole	1¼"	—	0.014"	1½"	**416M50**
	10"	Arbor Hole	¾"	—	0.014"	2½"	**416M05**
	12"	Arbor Hole	2"	—	0.012"	3¼"	**416M34**
Knotted Wire	3"	Shank	—	¼"	0.014"	⅝"	**416M51**
	3"	Arbor Hole	⅜"	—	0.014"	⅝"	**416N97**
	4"	Arbor Hole	⅝"	—	0.014"	⅞"	**416M55**
	4"	Arbor Hole	⅝"-11	—	0.020"	⅞"	**416M60**
	6"	Arbor Hole	⅝"	—	0.014"	1½"	**416M54**
Twisted Wire	4"	Arbor Hole	⅝"-11	—	0.020"	⅞"	**416L84**
	4"	Arbor Hole	⅝"	—	0.020"	1"	**416L87**
	4"	Arbor Hole	⅝"	—	0.020"	⅞"	**416L92**
	4"	Arbor Hole	⅝"	—	0.020"	⅞"	**416M29**
	6"	Arbor Hole	⅝"	—	0.020"	1¼"	**416M12**
Stainless Steel							
Crimped Wire	3"	Arbor Hole	½"	—	0.005"	1"	**416M36**
	3"	Shank	—	¼"	0.008"	¾"	**416M39**
	3"	Shank	—	¼"	0.014"	¾"	**416M35**
Knotted Wire	4"	Arbor Hole	⅝"	—	0.020"	¾"	**416M91**
Twisted Wire	4"	Arbor Hole	⅝"	—	0.020"	⅞"	**416M32**
	4"	Arbor Hole	⅝"	—	0.020"	⅞"	**416M43**



Crimped Wire Wheel



Cup Brushes



Knot Wire Wheel

WEILER ★ GA GRAINGER APPROVED

¼" Stem-Mounted Wheel and Cup Brushes

Crimped wire wheel brushes have great flexibility on uneven surfaces. Knot wire wheel brushes have a strong twist for longer life and aggressive rough finishing. Brushes contain high-carbon, heat-tempered steel wire for aggressive cutting action and maximum life. Special 3-D crimping means less wire breakage.

Stainless Steel—Recommended for stainless steel, aluminum, and nonferrous alloyed metals.

Brush Dia.	Face Width	Wire Dia.	Trim Length	Max. RPM	Brand	Item No.
Crimped Wire Wheels						
Carbon Steel						
2"	⅜"	0.006"	½"	20,000	Weiler	**3A204**
		0.012"	½"	20,000	Weiler	**3A205**
	¾"	0.012"	7/16"	20,000	Weiler	**6JXG5**
3"	½"	0.008"	1"	20,000	Weiler	**5X897**
		0.012"	1"	20,000	Weiler	**5X898**
		0.014"	1"	25,000	Weiler	**6JXG4**
	⅝"	0.012"	13/16"	25,000	Weiler	**6JXH1**
Stainless Steel						
2"	⅜"	0.012"	½"	20,000	Weiler	**3H697**
3"	½"	0.014"	1"	20,000	Weiler	**3H699**
	⅝"	0.014"	13/16"	25,000	Weiler	**6JXH2**
Crimped Wire Wheels, Shank						
Carbon Steel						
¾"	3/16"	0.005"	5/16"	37,000	GA	**443N67**
1"		0.003"	5/16"	37,000	GA	**443P19**
		0.005"	5/16"	37,000	GA	**443N98**
1¼"		0.005"	⅜"	37,000	GA	**443P28**
1½"	¼"	0.012"	¼"	20,000	GA	**443M61**
		0.009"	⅜"	4500	GA	**443M55**
2"		0.012"	⅜"	4500	GA	**443M43**
	⅜"	0.008"	½"	20,000	GA	**443M15**
		0.012"	½"	20,000	GA	**443M05**
2½"		0.009"	½"	4500	GA	**443M99**
		0.012"	½"	4500	GA	**443M83**
3"	7/16"	0.009"	9/16"	4500	GA	**443M79**
		0.012"	9/16"	4500	GA	**443M52**
	½"	0.008"	1"	20,000	GA	**443M08**
		0.012"	⅞"	20,000	GA	**443M02**
	⅝"	0.008"	1"	20,000	GA	**443M46**
		0.012"	1"	20,000	GA	**443M14**

Brush Dia.	Face Width	Wire Dia.	Trim Length	Max. RPM	Brand	Item No.
4"	9/16"	0.009"	15/16"	4500	GA	**443M51**
		0.012"	15/16"	4500	GA	**443M39**
Stainless Steel						
2"	⅜"	0.012"	½"	20,000	GA	**443M20**
		0.012"	½"	20,000	GA	**443N20**
3"	½"	0.014"	⅞"	20,000	GA	**443M06**
		0.014"	⅞"	20,000	GA	**443M06**
	⅝"	0.012"	1"	20,000	GA	**443M36**
		0.012"	1"	20,000	GA	**443M36**
Cup Brushes						
Carbon Steel						
1¾"	—	0.012"	⅝"	13,000	GA	**443M16**
		0.012"	¾"	13,000	Weiler	**3A203**
2"		0.012"	⅝"	13,000	Weiler	**6JXH6**
		0.012"	⅝"	13,000	GA	**443M13**
Knotted Wire Wheels						
Carbon Steel						
3¼"	⅜"	0.012"	⅝"	25,000	Weiler	**6JXG7**
		0.014"	⅝"	20,000	Weiler	**3A207**
		0.020"	⅝"	25,000	Weiler	**6JXG9**
4"	½"	0.014"	⅞"	20,000	Weiler	**3A208**
Stainless Steel						
3¼"	⅜"	0.014"	⅝"	25,000	Weiler	**6JXH0**
Knotted Wire Wheels, Shank						
Carbon Steel						
3"	⅜"	0.014"	⅝"	25,000	GA	**443M17**
3¼"	¼"	0.014"	⅝"	25,000	GA	**443M60**
		0.014"	¾"	25,000	GA	**443M24**
4"	½"	0.014"	⅞"	20,000	GA	**443M23**

Brush Dia.	Wire Dia.	Trim Length	Max. RPM	Brand	Item No.
Circular Flared					
Carbon Steel					
1½"	0.006"	⅞"	20,000	Weiler	6JXD4
	0.020"	⅞"	22,000	Weiler	3H687
3"	0.008"	⅞"	16,000	Weiler	3H689
	0.020"	⅞"	16,000	Weiler	3H691
Crimped Wire					
Carbon Steel					
½"	0.006"	⅜"	25,000	Weiler	3H611
	0.008"	⅞"	25,000	GA	443N37
	0.012"	⅞"	25,000	GA	443N26
	0.014"	⅞"	25,000	Weiler	3H613
		⅞"	25,000	Weiler	3H615
		⅞"	25,000	GA	443N18
	0.020"	⅞"	25,000	Weiler	1PAH9
		⅞"	25,000	GA	443N56
¾"	0.006"	⅞"	22,000	Weiler	4F703
	0.008"	⅞"	22,000	GA	443N66
	0.010"	⅜"	22,000	Weiler	4F704
	0.012"	⅞"	22,000	GA	443P04
	0.020"	⅞"	22,000	Weiler	5X895
		⅞"	22,000	GA	443N50
1"	0.006"	⅞"	22,000	Weiler	3H627
	0.008"	1"	22,000	GA	443M69
	0.010"	⅜"	22,000	Weiler	4F705
	0.012"	1"	22,000	GA	443M96
	0.014"	1"	22,000	Weiler	3H629
		1"	22,000	GA	443N20
	0.020"	1⅛"	22,000	Weiler	5X896
		1⅛"	22,000	GA	443M86
1½"		¾"	20,000	GA	443N13
3"	0.008"	1"	16,000	GA	443M30
	0.020"	1¼"	16,000	GA	443N82
Stainless Steel					
½"	0.006"	1"	25,000	Weiler	3H617
	0.008"	⅞"	25,000	GA	443M98
	0.010"	1"	25,000	Weiler	3H619
	0.012"	⅞"	25,000	GA	443N35
	0.014"	⅞"	25,000	Weiler	3H621
		⅞"	25,000	GA	443M63
	0.020"	⅞"	25,000	Weiler	3H623
¾"	0.006"	1"	22,000	Weiler	3H625
	0.008"	⅞"	22,000	GA	443N68
	0.010"	⅜"	22,000	Weiler	4F706
	0.012"	⅞"	22,000	GA	443N23
1"	0.006"	1"	22,000	Weiler	2FZ08
	0.008"	1"	22,000	GA	443M76
	0.010"	⅜"	22,000	Weiler	4F707
	0.012"	1"	22,000	GA	443M37
Knotted Wire					
Carbon Steel					
¾"	0.014"	⅞"	22,000	GA	443M34
	0.020"	⅞"	22,000	GA	443M35
1⅛"	0.014"	⅞"	22,000	GA	443M19
	0.020"	⅞"	22,000	GA	443M10
Stainless Steel					
¾"	0.014"	⅞"	22,000	GA	443M38
1⅛"		⅞"	22,000	GA	443M27
Twisted Wire					
Carbon Steel					
¾"	0.014"	¼"	22,000	Weiler	4F708
	0.020"	⅞"	22,000	Weiler	4F709
1⅛"	0.014"	1⅛"	22,000	Weiler	4F710
	0.020"	¼"	22,000	Weiler	3A202
Stainless Steel					
¾"	0.014"	¼"	22,000	Weiler	4F711
1⅛"		¼"	22,000	Weiler	4F712



Circular Flared
No. 3H689



Crimped Wire
No. 3H613



Twisted Wire
No. 4F710

WEILER GA GRAINGER APPROVED

¼" Stem-Mounted End Brushes

For use in portable tools. Compact brushes are shaped for hard-to-reach areas. Use for carbon cleaning; I.D. pipe cleaning; die, mold, and tool cleaning and polishing; and rust and paint removal.

Circular Flared—Flare design accommodates the natural working angle for consistent finishing. Allows easy access to a broad range of surface angles and contours.

Crimped Wire—For light-duty brushing applications. Stainless steel brushes are recommended for stainless steel, aluminum, and nonferrous alloyed metals.

Knot Wire—High-tensile carbon or 302 stainless steel yields maximum cutting action. High RPM ratings meet or exceed industry standards.

WEILER

⅛" Stem-Mounted Miniature Brushes

Provide excellent accuracy where precision brushing is critical. Ideal for general cleaning, deburring, and blending surface junctures in electronics, instrumentation, and tool-and-die work.

Brush Dia.	Wire Dia.	Fill Type	Max. RPM	Item No.
Wire Wheel Brushes				
¾"	0.005"	Carbon Steel	20,000	5HD74
	0.005"	Stainless Steel	20,000	5HD75
1"	0.005"	Carbon Steel	20,000	5HD78
	0.005"	Brass	20,000	5HD79
1¼"	0.005"	Carbon Steel	20,000	5HD80
End Brushes				
3⁄16"	0.003"	Brass	37,000	5HD81
	0.003"	Carbon Steel	37,000	5HD82
	0.003"	Stainless Steel	37,000	5HD83
¼"	0.005"	Brass	37,000	5HD84
	0.005"	Carbon Steel	37,000	5HD85
	0.005"	Stainless Steel	37,000	5HD86
5⁄16"	0.005"	Stainless Steel	25,000	5HD88
Cup Brushes				
⅝"	0.005"	Carbon Steel	37,000	5HD89
	0.005"	Brass	37,000	5HD90
	0.005"	Stainless Steel	37,000	5HD91



Wire Wheel
No. 5HD74



End Brush
No. 5HD85



Cup Brush
No. 5HD89

Scan. Order. Done.
Details on page A1.

WEILER

Brass and Bronze Nonsparking Wire Brushes

An excellent choice for cleaning molds and dies in plastic injection and extrusion applications, particularly in environments where potentially explosive or flammable materials may be present.



Twist Wire Wheel
No. 33M606



Cup Brushes
No. 33M613



Knot Wire Cup
No. 33M607



Single Spiral Tube
No. 33M625

Brush Dia.	Arbor Hole	Face Width	Wire Dia.	Max. RPM	Item No.
Crimped Wire Wheel Brushes					
Brass					
1½"	⅜"	¼"	0.005"	20,000	**33M637**
2"	½"	⅜"	0.012"	20,000	**33M636**
3"	½"	⅝"	0.014"	20,000	**33M635**
6"	⅝"	½"	0.005"	20,000	**33M604**
	⅝"	½"	0.012"	20,000	**33M605**
Twist Wire Wheel Brushes					
Bronze					
3"	½"	⅜"	0.020"	20,000	**33M606**
4"	⅝"	½"	0.020"	20,000	**33M612**
Cup Brushes					
Bronze					
3"	⅝" - 11"	—	0.020"	14,000	**33M613**
4"	⅝" - 11"	—	0.020"	9000	**33M620**
6"	⅝" - 11"	—	0.020"	6600	**33M618**
Brass					
5"	⅝" - 11"	—	0.014"	8000	**33M619**
Knot Wire Cup Brushes					
Bronze					
2¾"	⅝" - 11"	—	0.020"	14,000	**33M614**
Cup Brushes					
Bronze					
4"	⅝" - 11"	—	0.020"	9000	**33M611**

Brush Dia.	Shank Size	Wire Dia.	Max. RPM	Item No.
Crimped Wire Wheel Brushes - Stem-Mounted				
Brass				
3"	¼"	0.012"	20,000	**33M621**
	¼"	0.012"	20,000	**6JXG6**
Cup Brushes - Stem-Mounted				
Brass				
1¾"	¼"	0.006"	13,000	**33M615**
	¼"	0.0118"	13,000	**33M617**
2¾"	¼"	0.0118"	6000	**33M616**
End Brushes - Stem-Mounted				
Brass				
½"	¼"	0.005"	25,000	**33M610**
1"	¼"	0.005"	22,000	**33M609**
	¼"	0.012"	22,000	**33M608**
Bronze				
1⅛"	¼"	0.006"	20,000	**33M607**
Hand Tube Brushes - Stem-Mounted - Pk. of 10				
Brass				
3/16"	0.094"	0.003"	2000	**33M631**
¼"	0.094"	0.003"	2000	**33M632**
	0.094"	0.005"	2000	**33M622**
⅜"	0.125"	0.004"	2000	**33M628**
½"	0.125"	0.004"	2000	**33M624**
⅝"	0.219"	0.008"	2000	**33M630**
¾"	0.250"	0.006"	2000	**33M626**
1"	0.250"	0.006"	2000	**33M629**
Single Spiral Tube Brushes - Stem-Mounted - Pk. of 10				
Brass				
¼"	0.125"	0.004"	2000	**33M633**
½"	0.188"	0.006"	2000	**33M625**
1½"	0.250"	0.008"	2000	**33M623**



Disc Brush
No. 4GJD4



Wheel Brush
No. 4GJC3

WEILER

Burr-Rx™ Brushes

Compliant, highly aggressive nylon filament is coextruded with ceramic grain for removal of large burrs and operation at elevated feed rates. Ideal for automated processes.

Brush Dia.	Face Width	Wire Dia.	Max. RPM	Mfr. Model	Item No.
Disc Brushes - Direct Mount Shell Mill Holder, 1¼" Arbor Hole					
4"	—	0.026"	1800	97823	**4GJD4**
6"	—	0.055"	1800	97826	**4GJD7**
Wheel Brushes - Composite Metal Hub, 2" Arbor Hole					
6"	¾"	0.026"	12,500	97749	**4GJC1**
	¾"	0.043"	12,500	97802	**4GJC2**
	¾"	0.055"	12,500	97803	**4GJC3**
8"	⅞"	0.026"	6000	97804	**4GJC4**
	⅞"	0.055"	6000	97805	**4GJC5**
10"	1⅛"	0.026"	4500	97806	**4GJC6**
	1⅛"	0.055"	4500	97812	**4GJC7**
12"	1¼"	0.043"	3600	97813	**4GJC8**



Wire Wheel
No. 1PBH2



End Brush
No. 1PBG8



Cup Brush
No. 1PBJ5

WEILER

Abrasive Nylon Brushes

For removing rust from metal surfaces and for light sanding jobs. Also for working with holes and round edges. Medium/Fine is for light-duty applications. Coarse and X-Coarse are for heavy-duty use.

Brush Dia.	Fill Type	Wire Dia.	Max. RPM	Mfr. Model	Item No.
Wire Wheel Brushes					
3"	Nylon (Medium/Fine)	0.022"	12,500	90436	**1PBH2**
	Nylon (Coarse)	0.022"	20,000	90435	**1PBH1**
	Nylon (X-Coarse)	0.022"	20,000	90434	**1PBG9**
4"	Nylon (Medium/Fine)	0.040"	20,000	90439	**1PBH5**
	Nylon (Coarse)	0.040"	20,000	90438	**1PBH4**
	Nylon (X-Coarse)	0.040"	9000	90437	**1PBH3**
End Brushes					
¾"	Nylon (Medium/Fine)	0.006"	4500	90433	**1PBG8**
	Nylon (Coarse)	0.006"	4500	90432	**1PBG7**
	Nylon (X-Coarse)	0.020"	4500	90431	**1PBG6**
Cup Brushes					
3"	Nylon (Medium/Fine)	0.047"	4500	90448	**1PBJ5**
	Nylon (Coarse)	0.047"	4500	90447	**1PBJ4**
	Nylon (X-Coarse)	0.047"	4500	90446	**1PBJ3**



Wire Wheel
No. 4GHX9



No. 4GHZ3

WEILER

Nylox® Brushes

Brushes have nylon- and abrasive-grain filaments to deburr and blend edges. Conformable, nonloading brushes are ideal for automated processes.

Brush Dia.	Wire Size (in.)	Arbor Hole	Face Width	Max. RPM	Mfr. Model	Item No.	
Wire Wheel Brushes							
Copper Center							
2 in	0.022/120	⅝"	7/16 in	20,000 RPM	97528	**4GHX9**	
	0.022/320	½"	⅜ in	20,000 RPM	97446	**4GHX6**	
	0.040/120	½"	⅜ in	20,000 RPM	97456	**4GHX7**	
3 in	0.022/120	½"	½ in	20,000 RPM	97536	**4GHY3**	
	0.022/320	½"	½ in	20,000 RPM	97531	**4GHY2**	
	0.035/180	½"	½ in	20,000 RPM	97529	**4GHY1**	
Narrow Face							
3 in	0.040/120	½"	⅜ in	20,000 RPM	97551	**4GHY5**	
4 in	0.035/180	½"	½ in	20,000 RPM	97593	**4GHY6**	
	0.040/120	½"	½ in	20,000 RPM	97594	**4GHY7**	
	0.040/120	⅝"	⅝ in	20,000 RPM	97601	**4GHZ1**	
Cup Brushes							
2 ¾ in	0.035/180	N/A	—	6,000 RPM	97602	**4GHZ2**	*
3 ½ in	0.035/180	⅝" - 11"	—	12,000 RPM	97603	**4GHZ3**	
5 in	0.040/120	⅝" - 11"	—	8,000 RPM	97604	**4GHZ4**	
6 in	0.040/80	⅝" - 11"	—	6,600 RPM	96096	**3H605**	

** ¼" stem-mounted.*

Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)



No. 3A573

WEILER

Drive Arbors with Threaded Shaft

Use with brushes with a maximum diameter of 3". Flush-mount design.

Arbor Hole (in.)	Stem Dia. (in.)	Stem Length (in.)	Max. RPM	Mfr. Model	Item No.
⅜	¼	¾	25,000	96086	3H587
½	¼	¾	25,000	95512	3A573



No. 3H575

WEILER

2" Arbor Hole Metal Adapters

Fits Hole (in.)	Arbor Hole (in.)	Item No.
2	to ½	3H567
2	to ⅝	3H569
2	to ¾	3H571
2	to ⅞	3H573
2	to 1	3H575
2	to 1¼	3H577
2	to 1½	3H579



No. 467G60

WEILER

Honing Brushes

- Silicon carbide abrasive

Resilient, flexible honing tools provide soft cutting action and remove burrs from cross-drilled holes.

Bore Dia.	Overall Length	Hone Length	60 GRIT Item No.	120 GRIT Item No.	180 GRIT Item No.	240 GRIT Item No.	320 GRIT Item No.	600 GRIT Item No.
3/16"	6"	25/32"	—	—	467F94	467F95	467F96	—
13/64"	6"	25/32"	—	—	467F97	467F98	467F99	—
7/32"	7 7/8"	1 1/2"	—	467G01	467G02	467G03	467G04	—
15/64"	7 7/8"	1 1/2"	—	467G05	467G06	467G07	467G08	—
17/64"	7 7/8"	1 1/2"	—	467G09	467G10	467G11	467G12	—
9/32"	7 7/8"	1 1/2"	—	467G13	467G14	467G15	467G16	—
19/64"	7 7/8"	2"	—	467G17	467G18	467G19	467G20	—
23/64"	7 7/8"	2"	—	467G21	467G22	467G23	467G24	—
25/64"	7 7/8"	2"	—	467G25	467G26	467G27	467G28	—
13/32"	7 7/8"	2"	—	467G29	467G30	467G31	467G32	—
7/16"	7 7/8"	2"	—	467G33	467G34	467G35	467G36	—
31/64"	7 7/8"	2"	—	467G37	467G38	467G39	467G40	—
17/32"	7 7/8"	2"	—	467G41	467G42	467G43	467G44	—
35/64"	7 7/8"	2 1/2"	—	467G45	467G46	467G47	467G48	—
39/64"	7 7/8"	2 1/2"	—	467G49	467G50	467G51	467G52	—
5/8"	8"	2 1/2"	—	—	—	—	—	467G57
45/64"	7 7/8"	2 1/2"	—	467G53	467G54	467G55	467G56	—
25/32"	8"	2 1/2"	—	—	—	—	—	467G70
51/64"	7 7/8"	2 1/2"	—	467G58	467G59	467G60	467G61	—
53/64"	7 7/8"	2 1/2"	—	467G62	467G63	467G64	467G65	—
7/8"	7 7/8"	2 1/2"	—	467G66	467G67	467G68	467G69	—
15/16"	8"	3"	—	—	—	—	—	467G79
31/32"	7 7/8"	2 1/2"	—	467G71	467G72	467G73	467G74	—
1"	7 7/8"	3"	—	467G80	—	—	—	—
1"	8"	3"	—	—	—	—	—	467G84
1 1/32"	7 7/8"	3"	—	467G75	467G76	467G77	467G78	—
1 1/8"	7 7/8"	3"	—	467G85	467G81	467G82	467G83	—
1 9/32"	7 7/8"	3"	—	—	467G86	467G87	467G88	—
1 13/32"	7 7/8"	3"	—	467G89	467G90	467G91	467G92	—
1 1/2"	8"	3"	467G97	—	—	—	—	467H03
1 35/64"	7 7/8"	3"	—	467G93	467G94	467G95	467G96	—
1 43/64"	7 7/8"	3"	—	467G98	467G99	467H01	467H02	—
1 13/16"	7 7/8"	3"	—	467H04	467H05	467H06	467H07	—
1 63/64"	7 7/8"	3"	—	467H08	467H09	467H10	467H11	—
2 3/32"	7 7/8"	3"	—	467H12	467H13	467H14	467H15	—
2 15/64"	7 7/8"	3"	—	467H16	467H17	467H18	467H19	—
2 3/8"	7 7/8"	3"	—	467H20	467H21	467H22	467H23	—
2 1/2"	7 7/8"	3"	—	467H24	467H25	467H26	467H27	—
2 39/64"	7 7/8"	3"	—	467H28	467H29	467H30	467H31	—
2 49/64"	7 7/8"	3"	—	467H32	467H33	467H34	467H35	—
2 51/64"	7 7/8"	3"	—	467H36	467H37	467H38	467H39	—
3 1/64"	7 7/8"	3"	—	467H40	467H41	467H42	467H43	—
3 1/8"	7 7/8"	3"	—	467H44	467H45	467H46	467H47	—
3 15/64"	7 7/8"	3"	—	467H48	467H49	467H50	467H51	—
3 15/64"	13 1/2"	5 1/2"	—	467H52	467H53	467H54	467H55	—
3 33/64"	13 1/2"	5 1/2"	—	467H56	467H57	467H58	467H59	—
3 49/64"	13 1/2"	5 1/2"	—	467H60	467H61	467H62	467H63	—
4"	13 1/2"	5 1/2"	—	467H64	467H65	467H66	467H67	—
4 1/8"	13 1/2"	6 1/2"	—	467H72	—	—	—	—
4 15/64"	13 1/2"	6 1/2"	—	467H68	467H69	467H70	467H71	—
4 1/2"	13 1/2"	6 1/2"	—	467H73	467H74	467H75	467H76	—
4 1/2"	13 1/2"	6 1/2"	—	467H77	467H78	467H79	467H80	—
5 1/4"	18"	6 1/2"	—	467H81	467H82	467H83	467H84	—
5 49/64"	18"	6 1/2"	—	467H85	467H86	467H87	467H88	—
6 15/64"	18"	6 1/2"	—	467H89	467H90	467H91	467H92	—

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Scan. Order. Done.
Details on page A1.

WEILER
GA GRAINGER APPROVED

Hand Tube Brushes, Single Spiral

- Pkg. of 10

Use for manually deburring, honing, thread chasing, and cleaning blind and threaded holes.



Nylon
No. 443P30



Steel
No. 1PAY1

Brush Dia.	Wire Dia.	Shank Size	Trim Length	Overall Length	Max. RPM	Brand	Item No.
Aluminum Oxide Fill							
0.090"	0.008"	0.041"	¾"	4"	1500	Weiler	**1PAR3**
0.105"	0.008"	0.041"	1"	4"	1500	Weiler	**1PAR5**
0.190"	0.012"	0.087"	1"	5"	1500	Weiler	**1PAT4**
0.260"	0.012"	0.115"	1"	5"	1500	Weiler	**1PAT6**
0.325"	0.012"	0.115"	1"	5"	1500	Weiler	**1PAT8**
0.385"	0.012"	0.147"	1"	5"	1500	Weiler	**1PAU1**
0.515"	0.012"	0.194"	1"	5"	1500	Weiler	**1PAV9**
Brass Fill							
3/16"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAY5**
	0.004"	0.094"	1½"	7"	—	GA	**443P32**
1/4"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAZ4**
	0.004"	0.094"	1½"	7"	—	GA	**443N49**
3/8"	0.004"	0.125"	2"	8"	2000	Weiler	**1PAZ9**
	0.004"	0.125"	2"	8"	—	GA	**443N74**
1/2"	0.004"	0.125"	2"	8"	2000	Weiler	**1PBA8**
	0.004"	0.125"	2"	8"	—	GA	**443N86**
5/8"	0.008"	0.219"	2"	5"	2000	Weiler	**1PBC2**
Nylon Fill							
1/4"	0.005"	0.094"	2"	6¼"	2000	Weiler	**1PAX3**
	0.005"	0.125"	2"	6¼"	—	GA	**443N12**
3/8"	0.005"	0.094"	2"	6¼"	2000	Weiler	**1PAX4**
	0.005"	0.125"	2"	8½"	—	GA	**443N19**
1/2"	0.010"	0.125"	3"	8½"	2000	Weiler	**1PAX5**
	0.010"	0.250"	3"	8½"	—	GA	**443N59**
3/4"	0.012"	0.125"	3"	8½"	2000	Weiler	**1PAX6**
	0.012"	0.250"	3"	8½"	—	GA	**443N30**
1"	0.014"	0.156"	4"	12¼"	2000	Weiler	**1PAX7**
	0.014"	0.250"	4"	12¼"	—	GA	**443N54**
1¼"	0.014"	0.156"	4"	13"	2000	Weiler	**1PAX8**
	0.014"	0.250"	4"	13"	—	GA	**443P29**
2"	0.014"	0.188"	5"	16¾"	2000	Weiler	**1PAX9**
	0.014"	0.250"	5"	16¾"	—	GA	**443P30**
Silicon Carbide Fill							
1/4"	0.022"	0.156"	2"	5"	1500	Weiler	**1PAW2**
3/8"	0.022"	0.156"	2"	5"	1500	Weiler	**1PAW3**
1/2"	0.022"	0.188"	2"	5"	1500	Weiler	**1PAW4**
3/4"	0.022"	0.250"	2½"	5½"	1500	Weiler	**1PAW6**
7/8"	0.022"	0.250"	2½"	5½"	1500	Weiler	**1PAW7**
1"	0.022"	0.250"	2½"	5½"	1500	Weiler	**1PAW8**
1¼"	0.035"	0.250"	2½"	5½"	1500	Weiler	**1PAW9**
1½"	0.040"	0.250"	2½"	5½"	1500	Weiler	**1PAX1**
Stainless Steel Fill							
1/8"	0.003"	0.094"	1"	6"	2000	Weiler	**1PAY2**
3/16"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAY4**
	0.005"	0.094"	1½"	7"	2000	Weiler	**1PAY7**
1/4"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAZ2**
	0.004"	0.125"	1"	3½"	—	GA	**443N39**
	0.004"	0.125"	1"	3½"	2000	Weiler	**5HD71**
	0.004"	0.094"	1½"	7"	—	GA	**443P18**
3/8"	0.004"	0.125"	1"	3½"	—	GA	**443P02**
	0.004"	0.125"	1"	3½"	2000	Weiler	**3H707**
	0.004"	0.125"	2"	8"	2000	Weiler	**1PAZ8**
	0.004"	0.125"	2"	8"	—	GA	**443P20**
1/2"	0.004"	0.125"	2"	8"	2000	Weiler	**1PBA6**
	0.004"	0.250"	2"	8"	—	GA	**443P09**
	0.005"	0.188"	1"	3½"	—	GA	**443P03**
	0.005"	0.188"	1"	3½"	2000	Weiler	**3H709**
5/8"	0.005"	0.188"	1"	3½"	—	GA	**443P36**
	0.005"	0.188"	1"	3½"	2000	Weiler	**5HD97**
3/4"	0.006"	0.219"	1"	3½"	—	GA	**443P31**
	0.006"	0.219"	1"	3½"	2000	Weiler	**5HD72**
7/8"	0.006"	0.219"	1"	3½"	—	GA	**443P38**
	0.006"	0.219"	1"	3½"	2000	Weiler	**3H711**
1"	0.008"	0.250"	1"	3½"	—	GA	**443P21**
	0.008"	0.250"	1"	3½"	2000	Weiler	**5HD73**
Steel Fill							
1/8"	0.003"	0.094"	1"	6"	2000	Weiler	**1PAY1**
3/16"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAY3**
	0.004"	0.094"	9/64"	7"	3000	Norton	**416N51**
	0.005"	0.094"	1½"	7"	2000	Weiler	**1PAY6**
1/4"	0.003"	0.094"	1½"	7"	2000	Weiler	**1PAY9**
	0.004"	0.115"	5/64"	7"	3000	Norton	**416N48**
	0.004"	0.125"	1"	3½"	2000	Weiler	**4F725**
	0.005"	0.094"	1½"	7"	2000	Weiler	**1PAZ6**
	0.006"	0.115"	5/64"	7"	3000	Norton	**416N46**
	0.006"	0.125"	1"	3½"	—	GA	**443N92**
5/16"	0.005"	0.125"	1"	3½"	2000	Weiler	**1PBC8**
	0.006"	0.125"	1"	3½"	—	GA	**443N61**
3/8"	0.004"	0.132"	1/8"	8"	3000	Norton	**416N49**
	0.004"	0.125"	1"	3½"	2000	Weiler	**4F726**
	0.004"	0.125"	2"	8"	2000	Weiler	**1PAZ7**
	0.005"	0.125"	9/64"	3½"	3000	Norton	**416N35**
	0.006"	0.168"	1/8"	8"	3000	Norton	**416N47**
	0.006"	0.125"	1"	3½"	—	GA	**443N33**
	0.006"	0.125"	2"	8"	2000	Weiler	**1PBA2**
7/16"	0.005"	0.125"	1/64"	3½"	3000	Norton	**416N90**
	0.005"	0.125"	1"	3½"	2000	Weiler	**1PBC9**
	0.006"	0.125"	1"	3½"	—	GA	**443P34**
1/2"	0.004"	0.125"	2"	8"	2000	Weiler	**1PBA4**
	0.005"	0.188"	1"	3½"	2000	Weiler	**4F727**
	0.006"	0.188"	1"	3½"	—	GA	**443N87**
	0.006"	0.125"	2"	8"	2000	Weiler	**1PBB1**
	0.008"	0.221"	9/64"	8"	3000	Norton	**416N84**
5/8"	0.005"	0.188"	1"	3½"	2000	Weiler	**4F728**
	0.006"	0.188"	1"	3½"	—	GA	**443P27**
3/4"	0.006"	0.219"	1"	3½"	—	GA	**443N38**
	0.006"	0.219"	1"	3½"	2000	Weiler	**4F729**
7/8"	0.006"	0.219"	1"	3½"	—	GA	**443P13**
	0.006"	0.219"	1"	3½"	2000	Weiler	**4F730**
1"	0.005"	0.250"	1"	3½"	2000	Weiler	**1PBD1**
	0.008"	0.125"	15/32"	3½"	3000	Norton	**416P03**
	0.008"	0.250"	1"	3½"	—	GA	**443P01**
	0.008"	0.250"	1"	3½"	2000	Weiler	**4F731**
1⅛"	0.008"	0.250"	1"	3½"	2000	Weiler	**1PBD2**
1¼"	0.008"	0.250"	1"	3½"	—	GA	**443P41**
	0.008"	0.250"	1"	3½"	2000	Weiler	**1PBD3**
2¼"	0.008"	0.250"	1"	3½"	2000	Weiler	**1PBD4**



Burrite Brush
No. 1PBD7



Double Spiral
No. 4F734

WEILER NORTON SAINT-GOBAIN

Power Tube Brushes

Brushes can be used with power tools for deburring, honing, thread chasing, and cleaning applications on blind and threaded holes. Burrite-type brushes use flat-side action. Use Double Spiral Brushes for heavier-duty applications.

Brush Dia.	Wire Dia.	Shank Size	Trim Length	Overall Length	Max. RPM	Brand	Item No.	Pkg. Qty.
Burrite Brushes								
Brush Holders								
Fits 1/8" Hole, 1/4" Shank Dia.						Weiler	**1PBE2**	1
Fits 3/32" Hole, 1/4" Shank Dia.						Weiler	**1PBE1**	1
Burrite Tube Brush								
Stainless Steel Fill								
3/8"	0.005"	0.094"	9/16"	2⅛"	2000	Weiler	**1PBD7**	10
Steel Fill								
5/16"	0.005"	0.094"	9/16"	2⅛"	2000	Weiler	**1PBD6**	10
9/16"	0.005"	0.125"	5/8"	2¼"	2000	Weiler	**1PBD8**	10
Double Spiral Brush								
Brass Fill								
1/2"	0.006"	0.156"	2"	5"	2000	Weiler	**1PBB8**	10
3/4"	0.006"	0.250"	2½"	5½"	2000	Weiler	**1PBC4**	10
Stainless Steel Fill								
1/2"	0.004"	0.156"	2"	5"	2000	Weiler	**1PBB6**	10
	0.006"	0.156"	2"	5"	2000	Weiler	**1PBB7**	10
3/4"	0.006"	0.250"	2½"	5½"	2000	Weiler	**1PBC3**	10
1"	0.006"	0.250"	2½"	5½"	2000	Weiler	**1PBC6**	10
Steel Fill								
3/8"	0.003"	0.125"	1½"	4"	2000	Weiler	**1PBB3**	10
	0.006"	0.125"	1½"	6"	2000	Weiler	**1PBB4**	10
1/2"	0.004"	0.156"	2"	5"	2000	Weiler	**1PBB5**	10
	0.004"	0.156"	2"	5"	2000	Weiler	**1PBB9**	10
5/8"	0.008"	0.219"	2"	5"	2000	Weiler	**1PBC1**	10
3/4"	0.008"	0.250"	2½"	5½"	2000	Weiler	**1PBC5**	10
	0.010"	0.238"	1/4"	7 9/16"	3000	Norton	**416N69**	1
1"	0.010"	0.313"	25/64"	7 9/16"	3000	Norton	**416N37**	1
1¼"	0.004"	0.250"	2½"	5½"	2000	Weiler	**1PBC7**	10
	0.012"	0.313"	1/2"	7 5/16"	3000	Norton	**416N76**	1
1¾"	0.012"	0.313"	1/2"	7 5/16"	3000	Norton	**416N52**	1
2¼"	0.012"	0.313"	1/2"	7 5/16"	3000	Norton	**416M97**	1
2¾"	0.014"	0.313"	1/2"	7 5/16"	3000	Norton	**416N73**	1
Double Spiral Tube Brush								
Stainless Steel Fill								
5/8"	0.010"	0.208"	13/64"	5"	3000	Norton	**416M99**	1
Steel Fill								
1/2"	0.004"	0.187"	5/32"	5"	3000	Norton	**416N07**	1
	0.006"	0.187"	5/32"	5"	3000	Norton	**416N24**	1
	0.006"	0.156"	2"	5"	2000	Weiler	**4F732**	10
5/8"	0.005"	0.219"	2"	5"	2000	Weiler	**4F733**	10
	0.006"	0.208"	13/64"	5"	3000	Norton	**416N56**	1
	0.010"	0.208"	13/64"	5"	3000	Norton	**416M86**	1
3/4"	0.004"	0.250"	2½"	5½"	2000	Weiler	**4F737**	10
	0.006"	0.238"	1/4"	5"	3000	Norton	**416M88**	1
	0.006"	0.250"	2½"	5½"	2000	Weiler	**4F734**	10
	0.010"	0.238"	1/4"	5"	3000	Norton	**416M62**	1
7/8"	0.004"	0.250"	2½"	5½"	2000	Weiler	**4F738**	10
	0.006"	0.238"	9/16"	5"	3000	Norton	**416N78**	1
	0.006"	0.250"	2½"	5½"	2000	Weiler	**4F735**	10
1"	0.006"	0.238"	25/64"	5"	3000	Norton	**416N41**	1
	0.006"	0.250"	2½"	5½"	2000	Weiler	**4F736**	10
	0.010"	0.238"	25/64"	5"	3000	Norton	**416N08**	1
	0.010"	0.250"	2½"	5½"	2000	Weiler	**4F739**	10
1¼"	0.010"	0.238"	1/2"	5"	3000	Norton	**416N42**	1
2"	0.010"	0.238"	7/8"	5"	3000	Norton	**416M75**	1
Encapsulated Double Spiral Tube Brush								
7/8"	0.010"	0.250"	9/16"	5"	3000	Norton	**416N54**	1
Internal Finishing Brush								
1¼"	0.006"	0.250"	3/8"	3¾"	4500	Norton	**416N55**	1
Micro Abrasive Brush								
Aluminum Oxide Fill								
3/16"	0.012"	0.093"	3/64"	5"	3000	Norton	**416N96**	1
39/64"	0.012"	0.175"	3/16"	5"	3000	Norton	**416N72**	1
Silicon Carbide Fill								
39/64"	0.022"	0.175"	3/16"	5"	3000	Norton	**416N59**	1
1 1/64"	0.022"	0.255"	3/8"	5"	3000	Norton	**416P01**	1
Side Action Tube Brush								
Steel Fill								
1/4"	0.003"	0.094"	5/64"	2⅛"	3000	Norton	**416N91**	1
5/8"	0.005"	0.125"	1/4"	2¼"	3000	Norton	**416P06**	1
Tube Brush								
Nylon Fill								
1/4"	0.005"	0.094"	9/64"	6¼"	3000	Norton	**416N02**	1
3/8"	0.005"	0.094"	9/64"	6¼"	3000	Norton	**416M79**	1
7/16"	0.010"	0.125"	7/64"	11½"	3000	Norton	**416N03**	1
1/2"	0.008"	0.094"	7/32"	8½"	3000	Norton	**416M57**	1
3/4"	0.012"	0.125"	21/64"	8¾"	3000	Norton	**416N15**	1
1"	0.010"	0.156"	25/64"	15½"	3000	Norton	**416M96**	1
1¼"	0.010"	0.156"	1/2"	15½"	3000	Norton	**416N62**	1
1½"	0.010"	0.219"	1/2"	15½"	3000	Norton	**416M90**	1
2"	0.010"	0.219"	1/2"	15½"	3000	Norton	**416M87**	1
Silicon Carbide Fill								
3/4"	0.040"	0.238"	3/8"	5"	3000	Norton	**416N74**	1
Stainless Steel Fill								
3/8"	0.006"	0.168"	1/8"	8"	3000	Norton	**416M58**	1

Deburring Blade Material and Application Chart

BLADE MATERIALS

Ceramic—Use for deflashing plastic materials.

High Speed Steel—Excellent general purpose blade for use on most materials.

Cobalt (S)—The best choice for Stainless Steel.

Carbide (C)—Best for Hardened Steel and Cast Iron.

TiN Coated (P)—Significantly increases HSS blade Life.

APPLICATIONS

Series B—Use on straight and front hole edges to remove burrs and other surface defects.

Series C—Use on flat surfaces and front and back hole edges.

Series D—Use for precision work on thin-gage sheet metal.

Series E—Use on sheet edges in hard-to-reach applications.

Series BURR-BI—Use on hard and soft materials, including sheet metal up to 16mm (0.63") thick.

Series F—Use on Hole Edges (ID) and Outer Edges (OD).

Series K—Use for finishing and deburring sheet edges.

Series L—Use on inner and outer straight and hole edges on sheet metal.

Series M—Use for deburring and finishing tube edges.

Series U—Miniature tools for deburring and scraping applications in dies and molds industry.


B10


B10P


B10S


B30


C40


C42

SHAVIV USA by Vargus Leading Deburring Solutions ★ WESTWARD

Deburring Tool Blades And Holders

Refer to the Deburring Blade Material and Application Chart, above for descriptions and applications.

Series	Material	Item No.	Pkg. Qty.
Round Double Sided Blades			
Shaviv			
R10	High Speed Steel	**45NW90**	10
Deburring Replacement Blades			
Shaviv			
B	TiN	**45NX55**	10
B10	High Speed Steel	**45NW84**	100
B 10	High Speed Steel	**45JD16**	10
B 10C	Carbide	**45JD17**	10
B 10L	High Speed Steel	**45JD88**	10
B 10P	TiN	**45JD19**	10
B10S	Cobalt	**45NX28**	10
B10S	Cobalt	**45NX30**	10
B 11	High Speed Steel	**45JD94**	10
B 11P	High Speed Steel	**45JE07**	10
B 12	High Speed Steel	**45JD20**	10
B 12P	High Speed Steel	**45JD21**	10
B 20	High Speed Steel	**45JD23**	10
B 20C	Carbide	**45JD24**	10
B 20P	TiN	**45JD25**	10
B 25	High Speed Steel	**45JD26**	10
B 25C	Carbide	**45JD96**	10
B 30	High Speed Steel	**45JD27**	10
B 30P	TiN	**45JD28**	10
B 32	High Speed Steel	**45JD29**	10
B 60	High Speed Steel	**45JD31**	10
B 70	Carbide	**45JD32**	10
BUS2	High Speed Steel	**45NX21**	5
C 40	High Speed Steel	**45JD33**	10
C 42	High Speed Steel	**45JD34**	10
C 50	High Speed Steel	**45JE04**	2
C 60	High Speed Steel	**45JE05**	2
D 80C	Carbide	**45JD35**	10
E100	High Speed Steel	**45NW94**	100
E 100	High Speed Steel	**45JD38**	10
E 100C	Carbide	**45JD39**	10
E 100CL	Carbide	**45JD98**	10
E 100D	High Speed Steel	**45JD40**	10
E 100L	High Speed Steel	**45JD90**	10
E 100P	TiN	**45JD41**	10
E100PL	TiN	**45NW95**	10
E100S	Cobalt	**45NX29**	10
E 110	High Speed Steel	**45JD42**	10
E 110P	High Speed Steel	**45JD43**	10
E 111	High Speed Steel	**45JD95**	10
E111P	TiN	**45NX40**	10
E 120	High Speed Steel	**45JD62**	10
E 200	High Speed Steel	**45JD44**	10
E 200C	Carbide	**45JD45**	10
E 200P	High Speed Steel	**45JD91**	10
E200S	Cobalt	**45NX08**	10
E 250	High Speed Steel	**45JD92**	10
E 300	High Speed Steel	**45JD46**	
E300P	TiN	**45NX31**	10
E 320	High Speed Steel	**45JD47**	10
E 350	High Speed Steel	**45JD48**	10
E400	High Speed Steel	**45NX36**	10
E450	High Speed Steel	**45NX37**	10
E 600	High Speed Steel	**45JD49**	10
E 601	High Speed Steel	**45JD50**	10
E 700	High Speed Steel	**45JD51**	10
E 720	High Speed Steel	**45JD52**	10
F 12	High Speed Steel	**45JD53**	10
F 20	High Speed Steel	**45JD54**	10
F26X	High Speed Steel	**45NW93**	10
F 30	High Speed Steel	**45JD55**	10
Q10	Ceramic	**45NX38**	10
UB 2000	High Speed Steel	**45JD93**	10
UF 1	High Speed Steel	**45JD80**	10
US 1	High Speed Steel	**45JD81**	10
Westward			
B 10	High Speed Steel	**3VB49**	10
D 20	High Speed Steel	**2NXG5**	1
E 200	TiN	**2NXH7**	10


E100


F26X


E100P


E100S


E300


E400


F12


F20


F30

Series	Brand	Item No.
Deburring Blade Holder Ms		
Type M, B, E	Shaviv	**45NW87**
Deburring Blade Holders		
Type B, Axially or Perpendicular	Shaviv	**45JD06**
Type C	Shaviv	**45JD07**
Type E	Shaviv	**45JD10**
Type F	Shaviv	**45JD11**
Deburring Handles		
Dual Compound E	Shaviv	**45NX25**
Type B	Shaviv	**45NX60**
Type B, C, D, D5, E, F, FR, G, G3. K, L, U, Burr-Bi	Shaviv	**45NX62**
Type E	Shaviv	**45NX61**
Hand Deburring Blade Tool Sets		
Type E, For Straight Edges, Hole Edges, Cross Hole Both Edges	Shaviv	**45NX54**
Ratchet Blade Holders		
Type F	Shaviv	**45JD12**
Tool Holder, Handle & Blade		
Disposable Deburring Tool, Q Series, Curved Ceramic Blade	Shaviv	**45NY07**
E Series, Deburring Tool Set, Yellow Hex Shaped Handle with Pocketclip	Shaviv	**45NX06**
E Series, Yellow Hex Shaped Handle with Pocketclip, Fixed Heavy Duty Blade	Shaviv	**45NX17**
Glo-Burr Handle, Permanetly Atached Ceramic Blade	Shaviv	**45NX87**
Mango II Handle, C Blade Holder, C42 Blade	Shaviv	**45NX67**
Mango II Handle, F Blade Holder, F20 Blade	Shaviv	**45NX75**
Mango II Handle, FR Ratcheting Blade Holder, F20 Blade	Shaviv	**45NX76**
Mango II Handle, FR Ratcheting Blade Holder, F26X Blade	Shaviv	**45NX77**

Deburring Tool Sets

SHAVIV USA by Vargus Leading Deburring Solutions

Refer to the Deburring Blade Material and Application Chart, above for descriptions and applications.

Description	Series	Includes	Item No.
Plumber Set	B, E	Ergo-Burr II Handle, F Holder, F26X OD Countersink, Glo-Burr E Handle with E100 Blade, (3) E100 Blades in Carrying Case	**52JH86**
Electrician Set	B, E	Mango II Handle, F Holder, F12 Countersink, MB2000 Handle with E100 Blade, E111 Blade, E400 Scraper Blade in Carrying Case	**52JH85**
Deburring Tool Sets	B	Handle, B Holder,B10 and B20 Blades	**45JD68**
	B	Handle, B Holder,B10 and B20 Blades	**45JD69**
	B	Mango II Handle, B Blade Holder, (2) B Blades	**45NX63**
	B, C	Mango II Handle, B, C Holders, B10, B20, B30, B60, B11, B70 Blades, C40 Scraper Blade	**45NX98**
	B, E	Aluminum A Handle, TiN Coated Blades	**45NX52**
	B, E	Mango II Handle, M Blade Holder, B10, B20, B30, E100, E111, E200 Blades	**45NX90**
	B, E	Mango II Handle, M Blade Holder for B, E Blades, E100 Blade, E111 Blade, E250 Blade, E400 Scraper Blade, Glo-Burr Handle, B30 Blade, B20 Blade in Carrying Case	**52JH83**
	B, E	Mango II Handle with B, E Holders, B10, B11, B25, E111, E250, E400, E707 Blades, Cera-Burr Ceramic Blade Tool	**45NX51**
	BURR-BI	Mango II Handle, BR Holder, Handguard, (2) R10 Blades	**45NX91**
	E	(4) Handles, E100, E200, E300 and E111 Blades	**45JE01**
	E	Aluminum A Handle, E Blade Holder, E100, E200, E300 Blades	**45NX89**
	E	Handle, E Holder, E100, E200 and E300 Blades	**45JD72**
	E	Mango II Handle, E Blade Holder, (3) E Blades	**45NX70**
	E, C	Mango II Handle, E, C Holders, E100P, E111, E200, E300, E600, E700 Blades, C42 Scraper Blade	**45NX99**
	U	Aluminum A Handle, U Holder, Scrape-Burr 400, Fine-Finishing Blades BUS1, BUS2, BUS31, BUS4	**45NX53**
Auto-Burr Set	B, E	Aluminum A Handle, FR Ratcheting Holder, F26X OD Countersink, F20 Countersink, UB2000 Handle with B11 Blade, B20 Blade, B25 Blade, B10S Cobalt Blade, B30 Blade in Carrying Case	**52JH84**
Aluminum Works Set	B, E	Aluminum A Handle, F Holder, F12 Countersink, MB2000 Handle with E200 Blade, E300 Blade in Carrying Case	**52JH87**


No. 45JD68


No. 45NX53



Siphon-Feed Polymer Cabinet No. 15E778



Siphon-Feed Steel Cabinet No. 53RJ26



Siphon-Feed Steel Cabinet No. 48ME53



Pressure-Feed Steel Cabinet No. 6YY21

Abrasive Blast Cabinets

Use for surface preparation, or to remove rust, scale, and paint from small parts and/or larger pieces with irregular surfaces. **Siphon-Feed** (suction) cabinets, use suction created by a venturi to suck the abrasive media into the airflow and out the nozzle; they let you refill media while in operation, for continuous blasting. Although production is slower than pressure-feed cabinets, they provide equivalent results at a lower initial cost. **Pressure-Feed** cabinets use a Pressure Pot to pressurize the abrasive media before it mixes with the air in a mixing chamber, producing a high-quality finish at a faster rate.

Note: Additional accessories and parts are available on Grainger.com®.

ALC Polymer Blast Cabinets—Cabinets feature large viewing window, protective underlay, and leak-resistant 1-pc. construction, and come complete with gun and hose. Ready to hook up to air and add abrasive. Can be used with a small shop vac (not included) as a dust collector.

Econoline Steel Blast Cabinets—Cabinets handle glass, aluminum oxide, corn cob, and silicon carbide abrasive media. Require 5-HP compressor and 12 cfm compressed air at 80 psi. They're constructed with 14-ga. steel bodies, 11-ga. steel legs, and have a spring-loaded trap door attached to the hopper bottom. Include carbide nozzle and air jet, regulator and gage, foot pedal actuator, and replaceable cloth-lined rubber gloves. Dust collector required (sold separately); except No. 6YY21 comes with 400 cfm unit.

ALC Steel Blast Cabinets—A large viewing window and oversized top door opening help accommodate a wide range of items. The fully welded construction keeps blasting media from leaking out of the cabinet. Include a dust collector.

Allsource Steel Blast Cabinets—A foot pedal-controlled siphon blast gun reduces operator hand fatigue and a rear-mounted 90 CFM dust collector minimizes the machine's footprint to free up floor space. The oversized front door opening lets you easily load a variety of items into the cabinet. No. 53CV99 has a 150 lb. grate capacity. No. 48ME53 has a 400 lb. grate capacity and No. 48ME54 has a 500 lb. grate capacity to let you work on heavier items, such as engine blocks and cylinder heads.

Cabinet Design	Height (in.)	Overall Width (in.)	Depth (in.)	Work Area Height (in.)	Work Area Width (in.)	Work Area Depth (in.)	Window	Top Opening	Side Opening	Brand	Mfr. Model	Item No.
LDPE Polymer Construction												
Siphon-Feed Blast Cabinets												
Benchtop	21"	24"	19"	12"	22"	18"	16" x 20"	18" x 14½"	—	ALC	40389	**15E777**
	28"	31"	21"	27"	30"	20"	27" x 15"	15" x 27"	—	ALC	40390	**15E778**
Floor	58"	38"	24"	23"	35"	23"	33" x 15"	16" x 33"	—	ALC	40391	**15E779**
Steel Construction												
Siphon-Feed Blast Cabinets												
Benchtop	33"	19"	17"	16"	18"	16"	6" x 12"	18" x 12"	—	Econoline	101691G-A	**3Z848**
Floor	60"	36"	24"	23"	36"	24"	12" x 24"	13" x 35"	11" x 17"	ALC	40403	**53RJ25**
	60"	48"	24"	23"	48"	24"	12" x 24"	13" x 47"	11" x 17"	ALC	40411	**53RJ26**
	60"	60"	24"	23"	60"	24"	12" x 24"	13" x 59"	11" x 17"	ALC	40413	**53RJ27**
	63"	39"	25"	23"	36"	24"	12" x 24"	36" x 13"	17" x 11"	Econoline	101694G-A	**3Z850**
	65"	46"	54"	23"	42"	24"	12" x 24"	42" x 24"	17" x 11"	Econoline	101696G-A	**3Z887**
	67"	48"	35"	23"	48"	24"	12" x 24"	15" X 47"	20" X 22"	Allsource	41500	**53CV99**
	70"	46"	47"	38"	29"	34"	30" x 15"	29" x 38"	—	Allsource	41800	**48ME53**
	72½"	71"	55"	33"	46"	49"	30" x 15"	29" x 38"	—	Allsource	41200	**48ME54**
	82"	44"	74"	32"	40"	40"	12" x 24"	40" x 40"	20" x 30"	Econoline	101698G-A	**3Z947**
	92"	65"	86"	40"	60"	48"	12" x 24"	60" x 48"	20" x 30"	Econoline	101701G-A	**4NFU2**
	94"	52"	90"	40"	48"	48"	12" x 24"	48" x 48"	20" x 30"	Econoline	101699G-A	**4NFU3**
Pressure-Feed Blast Cabinets												
Floor	65"	60"	25"	23"	36"	24"	12" x 24"	36" x 13"	17" x 11"	Econoline	101694DG-A	**3JR97**
	71"	31"	51"	24"	48"	26"	12" x 24"	48" x 24"	17" x 11"	Econoline	101697WDG-A	**6YY21**
	96"	42"	39"	35"	40"	38"	23¾" x 23¾"	—	33" x 26"	Econoline	102760G-A	**3JR98**
	81"	81"	57"	33"	46"	34"	30" x 15"	—	—	Allsource	42000	**448M04**
Siphon-Feed Blast Cabinets												
Floor	60"	36"	24"	23"	36"	24"	24" x 12"	13" x 35"	11" x 17"	ALC	40403L	**448M07**
	60"	48"	24"	23"	48"	24"	24" x 12"	13" x 47"	11" x 17"	ALC	40411L	**448M08**
	60"	60"	24"	23"	60"	24"	24" x 12"	13" x 59"	11" x 17"	ALC	40413L	**448M09**
Pressure-Feed Blast Cabinets												
Floor	108"	51"	96"	40"	48"	48"	12" x 24"	48" x 48"	20" x 30"	Econoline	101699WD-A	**40HY72**

Description	For Use With	Brand	Item No.
Accessories for Cabinets			
Abrasive Strainer, Standard	Abrasive Blast Cabinets and Blasters	ALC	**15E806**
Abrasive Strainer, Fine		ALC	**15E807**
Funnel Strainer		ALC	**15E808**
Foot Pedal Kit	15E777, 15E778, 15E779	ALC	**15E787**
Economy Light Kit		ALC	**15E785**
Premium Light Kit	53RJ25, 53RJ26, 53RJ27	ALC	**15E786**
Blasting Basket	Abrasive Blast Cabinets	ALC	**15E809**
Blasting Tray		ALC	**15E810**
Gun Mounting Bracket for Siphon-Feed Cabinets	Siphon-Feed Cabinets	Econoline	**3JR94**
Wheel Roller	Abrasive Blast Cabinets	Econoline	**4NFU5**
Parts Tray, 16" x 8"		Econoline	**4NFU6**
Parts Basket, 8" x 8"		Econoline	**4NFU7**
20" Dia. Turntable, 2000 lb. Capacity		Econoline	**3JR96**
26" Dia. Turntable, 2000 lb. Capacity		Econoline	**3JR95**
Automatic Tumble Basket Kit		Econoline	**4NFU4**
LED Light Kit, 30" x 11" x 3" For Use With ALC Abrasive Blast Cabinets	ALC Abrasive Blast Cabinets	ALC	**448M05**
LED Light Kit, 52" x 11" x 3" For Use With ALC Abrasive Blast Cabinets		ALC	**448M06**
Replacement Parts			
Window Underlay, Pkg. of 5	15E778, 53RJ25, 448M07, 53RJ26, 448M08, 53RJ27, 448M09	ALC	**15E781**
Window Underlay, Pkg. of 5	15E779	ALC	**15E782**
Window Underlay, Pkg. of 1	15E777	ALC	**15E780**
Window Underlay, 12 x 24", Pk. of 20	3Z848, 3Z887, 3Z947, 3JR97, 6YY21	Econoline	**3JT12**
Window Underlay, 24 x 120" Roll	3Z848, 3Z850, 3Z887, 3Z947, 3JR97, 3JR98, 6YY21	Econoline	**3JT13**
Window, 6 x 12"	3Z848	Econoline	**3JT15**
Window, 12 x 24"	3Z850, 3Z887, 3Z947, 3JR97, 6YY21	Econoline	**3JT14**
Window, 24 x 24""	3JR98	Econoline	**4KR23**

Description	For Use With	Brand	Item No.
Gloves, 24"L, 1 Pair	3Z850, 3Z887, 6YY21, 6YY23	Econoline	**3JT05**
Gloves, Seamless, 24"L, 1 Pair	3JR97, 3JR98, 6YY23	Econoline	**4KR12**
Gloves, 33"L, 1 Pair	3Z947	Econoline	**3JT06**
Lampshield, 6.875 x 12.5"	3Z848	Econoline	**3JT11**
Lampshield, 12" x 25.5""	3Z850, 3Z887, 3Z947, 3JR97, 3JR98, 6YY21	Econoline	**3JT10**
Filter Cartridge, 9 X 24"	6YY21	Econoline	**6YY46**
Siphon-Feed			
Economy Siphon Gun, Aluminum Nozzle	15E777, 15E778	ALC	**15E783**
12 CFM Gun Assembly	3Z848, 3Z850, 3Z887, 3Z947	Econoline	**3JT01**
25 CFM Gun Assembly		Econoline	**3JT02**
45 CFM Gun Assembly		Econoline	**4NFU8**
¼" I.D. Nozzle 12 CFM	3JT01	Econoline	**3JT08**
12 CFM Air Jet		Econoline	**3JT04**
5⁄16" I.D. Nozzle 25 CFM	3JT02	Econoline	**3JT07**
25 CFM Air Jet		Econoline	**3JT03**
Clear Abrasive Hose, ⅝" x 5 ft.	3Z848, 3Z850, 3Z887, 3Z947	Econoline	**3JT09**
Pressure-Feed			
¾" I.D. Nozzle Holder	3JR97, 3JR98, 6YY21	Econoline	**4KR14**
1⁄16" I.D. Nozzle		Econoline	**4KR19**
⅛" I.D. Nozzle		Econoline	**4KR15**
3⁄16" I.D. Nozzle		Econoline	**4KR16**
¼" I.D. Nozzle		Econoline	**4KR17**
5⁄16" I.D. Nozzle		Econoline	**4KR18**
Abrasive Hose, 8 ft.		Econoline	**4KR13**
Media Valve, Aluminum	3JR97	Econoline	**4KR21**
Diaphragm, Media Valve		Econoline	**4KR22**
Gloves, 24" X 6"	53RJ25, 53RJ26, 53RJ27	ALC	**53RJ30**
Window Underlay, 12" X 24", Pkg. 50		ALC	**53RJ31**
Window Underlay Roll, 24" X 120", Pkg. 1	ALC Abrasive Blast Cabinets	ALC	**53RJ32**

ECONOLINE ALC

Dust Collectors

Dust collection systems remove dust and dirt particles from the air, and return filtered air to the room.

Bag-Style Filter—Bag filters can be laundered and reused. Chip capacity is 90% @ 2.5 microns.

Cartridge-Style Filter—99.98% efficient cartridge-style filters remove particles from the air as small as 0.5 microns.



Bag-Style Filter No. 4KR11



Cartridge-Style Filter No. 6YY22

Max. Flow (cfm)	Chip Cap. (microns)	dBA	Hose Dia. (in.)	Max. Hose Length (ft.)	Voltage	Amps AC	Includes	Brand	Mfr. Model	Item No.
Bag-Style Filter										
100	90% @ 2.5	90	2½	5	115	8	100 cfm motor, 8 Feet Electric Cord Plugs into Cabinet Light Box, self-cleaning bag style filter	Econoline	201768G-B5	**3JR93**
112	50	80 to 85	2¼	6	120	11	Hose and Filter	ALC	40412	**53RJ28**
150	90% @ 2.5	87	2½	5	115	8	150 cfm motor, 8 Feet Electric Cord Plugs into Cabinet Light Box, self-cleaning bag style filter	Econoline	202672-A	**4KR11**
850	90% @ 2.5	83	5	10	230	14.5	Regulator, Gauge, Moisture Filter, 30 Tubular 50 Micron Filter Bags, 5" Diameter 10 ft. Long Hose	Econoline	101852WD-A	**40HY73**
Bag-Style Filter Accessories										
50 Micron Replacement Filter for 53RJ28								ALC	40267	**53RJ29**
Replacement Filter, Use with Nos. 3JR93 and 4KR11								Econoline	414436	**3JR99**
Cartridge-Style Filter										
400	99.9% @0.5	86	4	10	115	8	400 cfm motor, Air-Actuated Vibrator, Trap Door, 5 Micron Cartridge Filter, 4" Diameter 10 ft. Long Hose	Econoline	101716GYG-4C	**6YY22**
600	99.9% @ 0.5	85	4	10	115	11.8	600 cfm motor, Air-Actuated Vibrator, Trap Door, 5 Micron Cartridge Filter, 4" Diameter 10 ft. Long Hose	Econoline	101716GY-6C	**40HY74**

ALC WESTWARD ALLSOURCE BLASTERS & EQUIPMENT

Portable Abrasive Blasters

For removing rust, scale, paint, and dirt from metals, wood, brick, and stone.

Note: Additional ALC accessories and parts are available on Grainger.com®.

Siphon-Feed—Westward® model includes blast gun and 3/16" ceramic nozzle. No. 10Z912 has a steel hopper with pull handle and 6" wheels for easy maneuvering around the jobsite. Nos. 15E765 and 15E766 have steel construction and can be used with most dry abrasives. No. 15E766 includes sturdy steel cart with two 6" wheels.

Pressure-Feed—All Westward units include an air line filter and pressure gage to control airflow. Nos. 10Z914 and 10Z915 have a recessed top for filling of blast media. Nos. 15E742 and 15E745 have powder-coated steel construction with a manual pull-up tank closure and deadman handle design; can be used with most dry abrasives. Include hood.

Siphon Gun Blaster Kit—Simple blaster is ideal for small projects.



50 lb. Capacity No. 15E765



45 lb. Capacity No. 10Z913



80 lb. Capacity No. 10Z914



Siphon Gun Blast Kit No. 15E790

Hopper Cap. (lb.)	Air Pressure (psi)	CFM Req. @ 80 psi (CFM @ Nozzle Size)	Includes	Hose Length	Brand	Mfr. Model	Item No.	
Siphon-Feed								
50	80 to 110	7	13/64" Nozzle, 1/4" Nozzle, 5/16" Nozzle, Siphon Gun	7 ft.	ALC	40017	**15E765**	
90	60 to 125	6.2	Blast Gun	10 ft.	Westward	—	**10Z912**	
	80 to 110	7	13/64" Nozzle, 1/4" Nozzle, 5/16" Nozzle	10 ft.	ALC	40018	**15E766**	
Pressure-Feed								
45	60 to 125	9	Control Valve Gun, Filling Funnel, Protective Hood	8 ft.	Westward	—	**10Z913**	
65	80 to 125	7	(2) 1/8" Nozzle, 3/32" Nozzle, Blast Hood	10 ft.	ALC	40001	**15E742**	*
80	65 to 125	9	Blast Gun	8 ft.	Westward	—	**10Z914**	
100	80 to 125	7	1/8" and 3/32" Ceramic Nozzles	8 ft.	Allsource	41600	**15E745**	
125	65 to 125	9	Blast Gun	8 ft.	Westward	—	**10Z915**	
150	80 to 125	15	(2) 1/8" Nozzle, (2) 5/32" Nozzle, Blast Hood	15 ft.	ALC	40004	**15E743**	*
250	80 to 125	15	(2) 1/8" Nozzle, (3) 5/32" Nozzle, Blast Hood with Bump Cap, 25 ft. Blast Hose	25 ft.	ALC	40005	**15E744**	*
Siphon Gun Blast Kits								
—	40 to 125	6.2	Siphon Gun, 3/16" Ceramic Nozzle, Steel Pick Up Tube and Hex Wrench	—	Westward	—	**10Z911**	
	80 to 125	7	13/64" and 1/4" Steel Nozzles	—	Allsource	4001544	**15E790**	
	80 to 125	7	13/64" and 1/4" Steel Nozzels	—	ALC	40015	**15E789**	
Blast Guns And Nozzles								
Blast Gun, Use With 15E789,15E765,15E766					ALC	40153	**15E774**	
Blast Gun, Pressure-Feed, Use With Nos. 10Z913, 10Z914 & 10Z915					Westward	10Z920	**10Z920**	
Blast Gun, Siphon-Feed, Use With 10Z912					Westward	10Z917	**10Z917**	
Blast Nozzle, 3/32", Use With 10Z920					Westward	10Z921	**10Z921**	
Blast Nozzle, 7/64", Use With 10Z920					Westward	10Z922	**10Z922**	
Blast Nozzle, 1/8", Use With 10Z920					Westward	10Z923	**10Z923**	
Blast Nozzle, 9/64", Use With 10Z920					Westward	10Z924	**10Z924**	
Blast Nozzle Kit, 3/16", Ceramic, Use With 10Z917					Westward	10Z918	**10Z918**	
Blast Nozzle Kit, 3/16", Tungsten Carbide, Use With 10Z917					Westward	10Z919	**10Z919**	

**** ASME certified.***



10 lb. Capacity No. 6YY25



100 lb. Capacity No. 6YY24

ECONOLINE

Portable Soda Blasters

Environmentally friendly units use soda media to remove coatings including carbon, paint, dirt, mold, oil, soot, and graffiti from almost any surface; no advance cleaning or surface masking is necessary. Water filter, pressure regulator, and control valve system included. ASME coded. No. 6YY25 is lightweight with a carrying handle. 10 lb. of soda provides up to 30 min. of blast time. Includes 5-ft. hose and 1/8" ceramic nozzle. No. 6YY24 is wheel-mounted and ready for instant hook-up to air supply. Includes 25-ft. hose, 1/8" ceramic nozzle, air safety lockout, and blast hood with cap.

Hopper Cap. (lb.)	Air Pressure (psi)	Min. CFM @ 80 PSI	Mfr. Model	Item No.
Portable Soda Blasters				
10	40 to 125	12	101825G-A	**6YY25**
100	25 to 125	18	101826G-A	**6YY24**
Accessories				
Kit w/4 Nozzles for Use with 6YY25			201247G-A	**6YY45**
Kit w/5 Nozzles, 3 Restrictors and 2 Control Box Hoses for Use with 6YY24			201244G-A	**6YY47**

	Glass Beads	Crushed Glass	Glass	Al. Ox./ Glass Mix	Aluminum Oxide	Silicon Carbide	Steel Shot	Stainless Steel Shot	Steel Grit	Garnet	Coal Slag	Corn Cob	Walnut Shells	Soda
Applications														
Finishing	X	X	X	X	X	X	X	X						
Peening	X	X	X				X	X						
Etching				X	X						X			
Deburring	X*	X*	X*	X	X	X								
Cleaning	X	X	X	X	X	X				X	X	X	X	X
Rust Removal	X**	X**	X**	X	X	X			X	X	X	X	X**	X
Paint Removal	X	X	X	X	X	X		X	X	X	X	X	X	X
Media Typically Used On														
Steel	X	X	X	X	X	X	X		X	X	X	X	X	x
Stainless Steel	X	X	X	X	X	X		X		X†		X	X	X
Aluminum	X	X	X	X	X					X†		X	X	X
Plastic			X									X	X	X
Wood			X									X	X	X
Specifications														
Working Speed	Med.	Med.	Med.	Med. High	High	Very High				High	High	High	High	High
Blast Pressure	40-80	80-150	20-55	40-80	60-100	20-90	80-150	80-150	80-150	90-110	60-80	60-150	60-150	50-150
Hardness (MOH)	5.5	5.5	5.5	5.5/9	9	9	8	8	8	7.5-8.5	6-7	4.5	3.5	2.5
Shape	Spherical	Angular	Spherical	Spherical and Angular	Angular	Angular	Spherical	Spherical	Angular	Granules	Angular	Angular	Angular	Angular
Dust Level	Low	Low	Low	Med. High	High	Very High				Med. High	Low	Med.	Med.	High
Probability of Metal Removal	Very Low	Very Low	Very Low	Med.	Med. High	High				High	Med. High	Very Low	Very Low	Very Low
Recyclable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No

** Soft metals and plastic. ** Surface rust. † 80 and 100 grit.*

Potters GA GRAINGER APPROVED BARTON

Blast Media



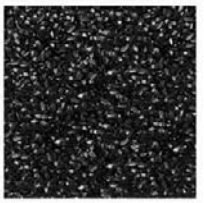
Glass Beads No. 2W580



Aluminum Oxide No. 6YY34



Silicone Carbide No. 6YY26



Coal Slag No. 6YY28



Soda No. 6YY30



Corn Cob No. 2MVR4

Description	Media Grit	Nominal Dia. Range	Micron Range	US Sieve	Container Size	Brand	Item No.
Glass Beads, Extra Fine	Not Rated	0.0017" to 0.0035"	45 to 90	170-325	53 lb.	Potters	**6ZC13**
Glass Beads, Fine	Not Rated	0.0035" to 0.0059"	90 to 150	100-170	53 lb.	Potters	**2W766**
Glass Beads, Medium	Not Rated	0.0041" to 0.0083"	106 to 212	70-140	53 lb.	Potters	**2W580**
Glass Beads, Coarse	Not Rated	0.0049" to 0.0098"	125 to 250	60-120	53 lb.	Potters	**2W765**
Glass Beads, Extra Coarse	Not Rated	0.0083" to 0.0117"	212 to 300	50-70	53 lb.	Potters	**6ZC14**
	80	0.0116" to 0.0279"	297 to 710	50-80	50 lb.	GA	**35KJ36**
Glass Beads/Aluminum Oxide, Medium	Not Rated	0.0041" to 0.0083"	106 to 212	70-140	53 lb.	Potters	**5W022** *
Ground Glass	Not Rated	0.0165" to 0.0278"	425 to 710	25-40	53 lb.	Potters	**6ZC15**
Crushed Glass	Not Rated	0.0165" to 0.0070"	212 to 425	40-80	50 lb.	GA	**53YK16**
Aluminum Oxide	36	0.0117" to 0.0278"	297 to 710	25	50 lb.	GA	**6YY34**
	46	0.0083" to 0.0165"	212 to 425	40	50 lb.	GA	**6YY35**
	54	0.0070" to 0.0139"	180 to 355	45	50 lb.	GA	**6YY36**
	60	0.0059" to 0.0117"	150 to 297	50	50 lb.	GA	**6YY37**
	80	0.0041" to 0.0083"	106 to 212	80	50 lb.	GA	**6YY38**
	100	0.0025" to 0.0059"	63 to 150	100	50 lb.	GA	**6YY39**
	120	0.0021" to 0.0049"	53 to 125	120	50 lb.	GA	**6YY40**
	150	0.0017" to 0.0041"	45 to 106	140	50 lb.	GA	**6YY41**
	180	0.0021" to 0.0035"	53 to 90	170	50 lb.	GA	**6YY42**
	220	0.0017" to 0.0290"	45 to 75	200	50 lb.	GA	**6YY43**
	Not Rated	0.0021" to 0.0035"	53 to 90	50	1 lb.	GA	**53YK21**
	Not Rated	0.0021" to 0.0035"	53 to 90	50	10 lb.	GA	**53YK22**
	Not Rated	0.0021" to 0.0035"	53 to 90	50	50 lb.	GA	**53YK23**
Garnet	36	0.0165" to 0.0278"	425 to 1000	36	55 lb.	Barton	**36UU71**
	80	0.0070" to 0.0139"	150 to 297	80	55 lb.	Barton	**36UU69**
	80	0.0070" to 0.0139"	150 to 297	80	55 lb.	GA	**402F54**
	100	0.0049" to 0.0098"	125 to 250	100	55 lb.	GA	**402F55**
	36	0.0165" to 0.0278"	425 to 1000	36	55 lb.	GA	**402F56**
	60	0.0117" to 0.0278"	297 to 710	30-60	55 lb.	GA	**402F57**
Silicon Carbide	120	0.0021" to 0.0049"	53 to 125	120	50 lb.	GA	**6YY26**
	220	0.0017" to 0.0029"	45 to 75	200	50 lb.	GA	**6YY27**
Coal Slag	36	0.0167" to 0.0334"	425 to 850	30	80 lb.	GA	**6YY28**
	24	0.0167" to 0.0669"	425 to 1700	20	80 lb.	GA	**6YY29**
	Not Rated	0.0117" to 0.0278"	212 to 425	30-60	80 lb.	GA	**53YK20**
Soda	120	0.0035" to 0.0059"	90 to 150	200	50 lb.	GA	**6YY30**
	80	0.0017" to 0.0098"	45 to 250	120	50 lb.	GA	**6YY31**
Steel Grit	Not Rated	0.0117" to 0.0278"	297 to 710	50	25 lb.	GA	**53YK11**
	Not Rated	0.0236" to 0.0551"	425 to 1000	25	25 lb.	GA	**53YK10**
Steel Shot	Not Rated	0.0236" to 0.0551"	297 to 710	230	25 lb.	GA	**53YK09**
	Not Rated	0.0117" to 0.0278"	212 to 425	110	25 lb.	GA	**53YK08**
Stainless Steel Shot	Not Rated	0.0083" to 0.0165"	125 to 250	60-140	25 lb.	GA	**53YK15**
	Not Rated	0.0117" to 0.0278"	212 to 300	40-70	25 lb.	GA	**53YK14**
	Not Rated	0.0117" to 0.0278"	212 to 425	35-50	25 lb.	GA	**53YK13**
	Not Rated	0.0236" to 0.0551"	297 to 710	20-40	25 lb.	GA	**53YK12**
Corn Cob	20	0.0236" to 0.0551"	600 to 1400	18	40 lb.	GA	**2MVR4**
	40	0.0167" to 0.0393"	425 to 1000	30	40 lb.	GA	**2MVR5**
Walnut Shells	Not Rated	0.0160" to 0.0330"	420 to 841	20-40	50 lb.	GA	**53YK19**
	Not Rated	0.0330" to 0.0660"	841 to 1680	12-20	50 lb.	GA	**53YK18**
	Not Rated	0.0660" to 0.0940"	1680 to 2380	8-12	50 lb.	GA	**53YK17**

** Size is for glass beads only.*

For more welding gloves, see page 1704. Replacement Filters, Plates, and Magnifying Lenses are available on **Grainger.com®.**



No. 49CE30



No. 33RN23



No. 33RN20



LINCOLN ELECTRIC Miller

Welding Gloves

- Kevlar® stitching

Gauntlet cuff provides additional wrist protection.

MIG, Stick—Thick, heavy-duty gloves offer superior burn and spark protection, and high-heat resistance.

TIG—Thinner leather provides superior feel and dexterity with light burn, spark, and heat resistance.

Application	Leather Palm Material	Back Material	Lining Material	Thumb Style	▶CHOOSE: Size	Length	Color	Item No.
Lincoln Electric								
MIG, Stick	Cowhide	Leather	Cotton, Foam	Wing	L	18"	Gray	**49CE30**
	Cowhide	Leather	Red Jersey	Wing	XL	13¾"	Black/Red	**49CE32**
Miller Electric								
—	Cowhide	Spandex®	Cotton, Foam	Reinforced	M	9¼"	White/Blue/Black	**33RN23**
	Cowhide	Spandex®	Cotton, Foam	Reinforced	L	9¼"	White/Blue/Black	**33RN24**
	Cowhide	Spandex®	Cotton, Foam	Reinforced	XL	9¼"	White/Blue/Black	**33RN25**
TIG	Cowhide	Cowhide, Goatskin	Cotton, Fleece	Wing	L	13"	Blue/White	**33RN21**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	M	12"	White/Blue	**33RN16**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	L	12"	White/Blue	**33RN17**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	XL	12"	White/Blue	**33RN18**
	Goatskin	Cowhide, Goatskin	Cotton, Fleece	Wing	M	13"	Blue/White	**33RN20**
	Goatskin	Cowhide, Goatskin	Cotton, Fleece	Wing	XL	13"	Blue/White	**33RN22**

Welding Helmets with Auto-Darkening Filters

Miller

- Auto On/Off power control
- Sensitivity and delay controls

All include: magnifying lens holder, (5) outside and (2) inside cover lenses. Digital Performance, Digital Elite, Digital Infinity, and T94™ Series also include lithium batteries and a helmet bag. All meet ANSI and CSA standards; except T94 Series does not meet CSA.

Classic Series—Feature 2 arc sensors, Auto On/Off, and Sensitivity control button. Nos. 38VU60 and 34C363 have integrated grind shield. Battery operated with solar assist, except No. 38VU59 is solar only.

Digital Performance and Digital Elite Series—All feature easy-to-use digital controls. Battery powered with solar assist. Digital Performance series have 3 arc sensors and 3 modes: Cut, Weld, and Grind. Digital Elite Series performs with 4 arc sensors and 4 digital modes: Weld, Cut, Grind, and X-mode.

Digital Infinity™ Series—Features a large viewing area and 4 modes: Weld, Cut, Grind, and X-mode. X-mode uses electromagnetic sensors to help you see see your arc, even in bright sunlight or if sensors are blocked. InfoTrack™ tracks arc time, and gives you the ability to set an alarm or timer.

T94™ Series—Feature 4 arc sensors. ClearLight™ high-definition optics and X-Mode™ feature help you see the arc in even difficult conditions, such as in bright sunlight, or if sensors are blocked. The cover lens is simple and easy to change out, to help reduce downtime.

Weld-Mask™—Goggles provide auto-darkening in compact configuration. Includes 2 outside cover lenses, 2 sensors, antifog film, head-covering, and carrying case.



Digital Elite
No. 34C385



T94™
No. 54TA13

Description	Color	Graphics	Lens Shade	TIG AMP Rating	Electromagnetic Sensor	Viewing Area	Switching Speed	Item No.
Welding Helmets								
Classic	Black	—	10	20A	No	3.74" x 1.38"	1/3600 sec.	**38VU59**
	Black	—	9-13	5A	No	3.74" x 1.38"	1/15,000 sec.	**38VU60**
	Black	—	8-12	20A	No	3.74" x 1.38"	1/10,000 sec.	**34C363**
	Black	Metalworks	8-12	20A	No	3.74" x 1.38"	1/10,000 sec.	**40CM99**
	Black/Red/White	Black/Red/White	8-12	20A	No	3.74" x 1.38"	1/10,000 sec.	**54EM86**
Digital Performance	Black	—	5-13	5A	No	3.82" x 1.85"	1/20,000 sec.	**34C373**
	Black/Blue	Blue Rage	5-13	5A	No	3.82" x 1.85"	1/20,000 sec.	**34C378**
Digital Elite	Black	—	5-13	5A	Yes	3.82" x 2.44"	1/20,000 sec.	**34C380**
	Blue	Stars and Stripes	5-13	5A	Yes	3.82" x 2.44"	1/20,000 sec.	**34C385**
	Blue	Vintage Roadster	5-13	5A	Yes	3.82" x 2.44"	1/20,000 sec.	**38XK47**
	Black/Orange	Inferno	5-13	5A	Yes	3.82" x 2.44"	1/20,000 sec.	**34C386**
	Black	Lucky's Speed Shop	5-13	5A	Yes	3.82" x 2.44"	1/20,000 sec.	**34C383**
Digital Infinity	Black	—	5-13	5A	Yes	6.70" x 6.70"	1/20,000 sec.	**40CN04**
	Black	Black Ops	5-13	5A	Yes	6.70" x 6.70"	1/20,000 sec.	**48VF66**
	Black	Departed	5-13	5A	Yes	6.70" x 6.70"	1/20,000 sec.	**40CN02**
	Blue/Red/White	Stars and Stripes	5-13	5A	Yes	6.70" x 6.70"	1/20,000 sec.	**40CN05**
T94™	Silver	—	3, 5-8, 8-13	3A	Yes	3.81" x 2.62"	1/20,000 sec.	**54TA12**
	Silver	—	8-13	3A	Yes	3.81" x 2.62"	1/20,000 sec.	**54TA13**
Welding Mask								
Weld-Mask	Adjustable Sensitivity, Adjustable Shades: #5, 7, 9, 11, 13, 1/15,000 sec. Switching Speed							**38VU61**

Welding Helmets with Auto-Darkening Filters

3M

- Switching speed: 1/10,000 sec.

Speedglas™ SL—Motion sensor automatically turns ON welding filter when helmet is picked up. Appropriate for most arc welding process such as stick, MIG/MAG TIG, and plasma welding.

Speedglas™ 100 Series—Locks in light state grinding mode 3 when grinding. Delay function allows user to set opening time. With built-in magnifying lens holders. For most Stick, MIG and higher amp TIG and arc welding processes.

Speedglas™ 9000 Series—The slim design features precision optics and a comfortable suspension. Use in most MIG/MAG, Plasma, Stick, and TIG welding processes.

Speedglas™ 9100 Series—Feature a locking up-and-down pivot, side exhaust vents, and side windows. Sensitivity adjustment allows use with all Stick, MIG and TIG, welding processes with grinding torch modes. Nos. 6DNC6, 9NUA2, 9A842, 4CWG9, and 4CWH1 have ratchet headgear. No. 6DNC7 has a hard hat adapter.



Speedglas™ 9000
No.53ME09



Speedglas™ 9100X
No. 4CWG9

Description	Color	Lens Shade	Viewing Area	TIG AMP Rating	Item No.
Speedglas™ SL	Black/Silver	8-12	3.57" x 1.68"	1A	**6DND4**
Speedglas™ 100	Black/Silver	8-12	3.66" x 1.73"	20A	**6DNC9**
Speedglas™ 9000	Black/Silver	8-12	2.13" x 4.09"	1A	**53ME09**
Speedglas™ 9100	—	5, 8-13	4.20" x 2.80"	1A	**8VT46**
	Black	5, 8-13	4.20" x 2.80"	1A	**48WL47**
	Black/Silver	5, 8-13	3.70" x 1.80"	1A	**6DNC6**
	Black/Silver	5, 8-13	3.70" x 1.80"	1A	**9NUA2**
	Black/Silver	5, 8-13	4.20" x 2.10"	1A	**9A842**
	Black/Silver	5, 8-13	4.20" x 2.10"	1A	**6DNC7**
Speedglas™ 9100X	Black/Silver	5, 8-13	4.20" x 2.10"	1A	**4CWG9**
Speedglas™ 9100XX	Black/Silver	5, 8-13	4.20" x 2.80"	1A	**4CWH1**
Speedglas™ 9100 FX	Black	5, 8-13	4.20" x 2.80"	1A	**31CZ98**
Accessories					
Auto Darkening Filter, 2.8" x 4.2", 5, 8 to 13 filter					**48WL45**
Polycarbonate Protection Plate, 4.0" x 6.0", For Use With 4CWG9 and 4CWH1					**4CWH2**



Solar
No. 33N556



Professional
No. 44R230



Professional Digital
No. 44R235



725S Series
No. 40P666



3350 Series
No. 54EE87



2450 Series
No. 54EE96



weldcap®
No. 44YT88



e650 Series
No. 35T250



Panoramaxx
No. 401R73



NexGen HSL100
No. 2KUV3

Auto-Darkening Welding Helmets

WESTWARD

Ratchet headgear with removable sweatband. Include extra lens covers.

Solar—Provide UV/IR protection up to shade DIN 16.

Professional—Feature external shade control with grind function.

Professional Digital—Feature digital control display. No. 33N557 has 4 control buttons. Headgear can hold and lock. Internal slots hold magnify lens.

LINCOLN ELECTRIC

725S Series—Cheater lens-capable lightweight thermoplastic helmet features a Grind mode and has 2 independent arc sensors to help avoid blind spots. With continuously variable external shade control. Solar operated with battery assist. Meets ANSI Z87.1, CSA.

3350 Series—4C technology provides a large viewing area, and 1/1/1/1 Optical Clarity to help improve visibility and reduce eye strain. Solar powered.

2450 Series—With a 28% larger field of view compared to similar helmets in their class, and 4C Lens Technology, the 2450 Series helmets help improve visibility, reduce eye strain, and provide real color view. With 1/1/1/1 Optical Clarity. Solar operated. No. 54EE97 has 3 modes (welding, cutting, and grinding).

OPTREL

weldcap®—Comfortable lightweight cap has manual shade level adjustment and offers more than twice the field of view of most standard industry welding helmets. Battery operated. Meets ANSI Z87.1, AS/NZS 1337/1338.

vegaview 2.5—Improves your vision with more than 4-times lighter view in Light state and in Grind mode. Manual shade level adjustment. Solar powered with battery assist. Meets ANSI Z87.1.

e650 Series—Includes Grind Mode, continuously variable sensitivity control, and opening delay function, as well as PAPR respiratory protection. All functions can be accessed from outside the helmet. Solar operated with battery assist.

e684 Series—Special cooling design with an HD viewing lens and adaptive auto-adjusting shade level. Includes PAPR respiratory protection. Battery operated. Meets CSA Z94.3 standards.

panoramaxx—Comfortable helmet helps you improve awareness of your surroundings, with a panoramic faceshield that offers a 6-times larger field of vision than standard welding helmets. A special UV/IR filter provides truer color rendering. Solar operated, with battery assist.

JACKSON SAFETY

NexGen HSL100—Features 3 modes: Weld, Torch, and Grind. With sensitivity and delay adjustments that can be made with easy-to-use digital controls. Includes a built-in mag lens holder. Solar operated with battery assist.

HSL 100—Ultra light weight helmet is made to give you an unobstructed view without lifting the hood. Features a variable Auto-Darkening Filter, with 4 independent sensors and easy-to-use digital controls that allow you to make sensitivity and delay adjustments for different tasks and durations.

Description	Color	Graphics	Lens Shade	TIG AMP Rating	Electromagnetic Sensor	Viewing Area	Switching Speed	Item No.
Westward								
Solar	Black	—	10	35A	No	3.82" x 1.85"	1/4000 sec.	**4UZY8**
	Black	—	9-13	5A	No	3.82" x 1.73"	1/16,000 sec.	**33N556**
Professional	Black	—	9-13	5A	No	3.82" x 1.85"	1/25,000 sec.	**6VKF5**
	Gray	—	6-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**44R225**
	Blue/white	Blue/white	6-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**44R230**
	Black	Black	6-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**33N557**
Professional Digital	Black	—	5-13	2A	No	3.82" x 2.44"	1/25,000 sec.	**33N558**
	Black/Red/White	Black/Red/White	5-13	2A	No	3.82" x 2.44"	1/25,000 sec.	**44R235**
Lincoln Electric								
725S Series	Brown	Lone Star	7-13	5A	No	3.82" x 1.73"	1/25,000 sec.	**49CE28**
	Black/Red	Grunge	7-13	5A	No	3.82" x 1.73"	1/25,000 sec.	**40P666**
	Brown	Blazed	7-13	5A	No	3.82" x 1.73"	1/25,000 sec.	**49CE29**
	Red/Tan	Bloodshot	7-13	5A	No	3.82" x 1.73"	1/25,000 sec.	**40P667**
3350 Series	Blue/Red/White	American Flag	5-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**54EE89**
	Silver	Twisted Metal	5-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**54EE90**
	Black	—	5-13	2A	No	3.74" x 3.34"	1/25,000 sec.	**54EE87**
2450D Series	Black	—	4, 5-13	2A	No	3.84" x 2.44"	1/25,000 sec.	**54EE97**
2450 Series	Black	—	5-13	2A	No	3.84" x 2.44"	1/25,000 sec.	**54EE96**
Optrel								
weldcap®	Black/Green	—	9-12	—	No	3.94" x 1.97"	1/30,000 sec.	**44YT88**
vegaview 2.5	Black	—	8-12	—	No	3.94" x 1.97"	1/10,000 sec.	**48TR37**
e650 Series	Black	—	9-13	—	No	3.94" x 1.97"	1/10,000 sec.	**35T250**
e684 Series	Silver	—	5-13	—	No	3.94" x 1.97"	1/10,000 sec.	**44YT86**
Panoramaxx	Black	Black/Green/White	5-12	1A	No	2.30" x 6.30"	1/10,000 sec.	**401R73**
Jackson Safety								
NexGen HSL100	Black	—	9-13	5A	No	3.8" x 2.35"	1/15,000 sec.	**2KUV3**
HSL 100	Black	—	9-13	5A	No	3.93" x 2.36"	1/10,000 sec.	**54JM14**
Auto Darkening Filter For Use With Jackson Safety WH10 HSL 100 or HLX 100 Welding Helmets								**3MNX9**

Find the Replacement Filters, Plates, and Magnifying Lenses you need at **Grainger.com®.**

Passive Welding Helmets and Faceshields

WELDING HELMETS

Flip Up Front

Helmets have an impact-resistant straight top that extends well over the head for added protection. Adjustable ratchet suspension.

Confined Space Pro

Super Kool™ helmet coating resists weld spatter and keeps helmet cooler than uncoated helmets. Proprietary lens retention system allows easy filter, cover, and protective plate loading. Ratchet suspension.

Description	Color	Lens Shade	Viewing Area	Brand	Item No.
Welding Helmets					
—	Black	10	4.33" x 3.54"	Westward	**44R224**
Flip Up Front	Black	10	3.86" x 2.09"	Westward	**4UZZ3**
Confined Space Pro	Gray	10	4.25" x 2.00"	Sellstrom	**49H757**
Super Slim™ Fixed	Black	10	4.25" x 2.00"	Sellstrom	**4T543**
Super Slim™	Silver	10	5.25" x 4.50"	Sellstrom	**4T542**
Super Kool	Silver	10	4.25" x 2.00"	Sellstrom	**4T541**
Super Slim™ 280	Black	10	4.25" x 2.00"	Sellstrom	**45FN92**
Tigerhood Classic	Black	10	4.25" x 2.00"	Fibre-Metal	**10C434**
	Blue	10	4.25" x 2.00"	Fibre-Metal	**10C433**
	Gray	10	4.25" x 2.00"	Fibre-Metal	**2XKX9**
	Gray	10	4.25" x 2.00"	Fibre-Metal	**2XKX8**
	Silver	10	4.25" x 2.00"	Fibre-Metal	**10C432**
Tigerhood Futura™	Silver	10	5.25" x 4.50"	Fibre-Metal	**2XKY2**
Pipeliner®	White	10	4.25" x 2.00"	Fibre-Metal	**2XKY1**
WH10 HSL 2	Black	10	2" x 4.25"	Jackson Safety	**2KUV9**
WH10 HSL 100	Black	10	4.5" x 5.25"	Jackson Safety	**2KUV7**
Welding Hood					
Hood w/Filter Plates	Gray	10	4.25" x 2.00"	Sellstrom	**6FKT2**
Infra-Guard Faceshields					
Shade 5, 8"H x 12"W				Sellstrom	**1N785**
Shade 5, 7"H x 19"W				Sellstrom	**1N786**

Super Slim™

Super Tuff™ nylon helmets are lighter than fiberglass. Drop-down ratchet headgear. Super Kool™ helmet has coating that makes helmet cooler, and sheds spatter without burning.

Tigerhood

Seamless-shell thermoplastic helmet has an extended throat to help block fumes, smoke, and sparks; reducing the risk of burn. With lift-front lens and 3C headgear. Installed shade 10 filter lens. Nos. 10C434 and 10C432 have telescoping lid. No. 2XKX9 includes loop for attaching hard hat.

Pipeliner®

Fiberglass with neoprene strap headband.

W10 Series

Passive welding helmets offer a clear, unobstructed view of the weld puddle. Include polycarbonate filter. No. 2KUV9 has a flip front. ANSI Z87.1 and CSA Compliant.

WELDING HOOD

Leather hood with ratchet headgear is designed for tight or confined spaces. Cover and filter plates (included) are easy to load.

INFRA-GUARD® FACESHIELDS

Protect user from infrared and ultraviolet rays during oxygen/acetylene welding and cutting operations. Ratchet headgear.



Super Slim™ Super Kool No. 4T542



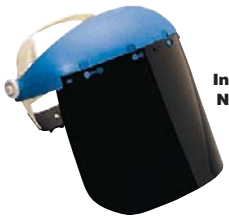
Tigerhood Classic No. 10C433



WH10 HSL 100 No. 2KUV7



Welding Hood No. 6FKT2



Infra-Guard No. 1N785

Powered Air Purifying Respirator (PAPR) Systems and Respirators

POWERED AIR PURIFYING RESPIRATORS (PAPR)

NIOSH Certified, except Nos. 49WM68 and 32NC32. APF of 25.

Miller®—Feature a lightweight, low-profile blower design with integrated load-bearing shoulder straps to help reduce fatigue, and a 9.22 sq. in. auto-darkening lens. Dual airflow speeds allow for user adjustment in varied work conditions. Audible and vibrating alarms indicate low battery and/or constricted airflow.

3M™—Feature side shields that provide improved peripheral vision, and an auto-darkening visor plate.

LPR-100 HALF MASK RESPIRATORS

Low-profile design fits comfortably under a welding helmet without obstructing the user's view. Large exhaust valve eases breathing. Filter media maximizes efficiency in humid conditions, extending filter life. NIOSH Certified, APF of 10.



PAPR System No. 408M95



PAPR System No. 32NC50



Half-Mask Respirator No. 34C395



Half-Mask Respirator No. 36RC60

Description	Includes	Brand	Mfr. Model	Item No.
PAPR Systems	T94 Welding Helmet, Compact blower unit, (2) HEPA filters, Pre-filter, Spark guard, Breathing tube, Flame-resistant breathing tube cover, Padded belt, Shoulder straps, (2) Lithium ion batteries, Battery charger, Flowmeter, Tool bag	Miller Electric	264573	**408M95**
	T94i Welding Helmet, Compact blower unit, (1) HEPA filters, (7) Pre-filter, Spark guard, Breathing tube, Flame-Resistant Breathing Tube Cover, Padded belt, Shoulder Straps, (2) Lithium Ion Batteries, Battery Charger, Flowmeter, Tool bag	Miller Electric	264575	**408M96**
	Titanium 9400i Head Assembly, (2) HEPA Filters, Prefilter, Spark Guard, Breathing Tube, Belt Assembly, Shoulder Straps, (2) Batteries, Battery Charger, Air Flow Gauge, Hard Hat, Tool Bag	Miller Electric	261659	**49WM68**
	Storage Bag, Welding Cap, Starter Kit	3M Speedglas	35-1101-30iSW	**48WL48**
	3M(TM) Speedglas (TM) Welding Helmet 9100 MP, Lithium Ion Battery, Side Windows, Auto-Darkening Filter 9100X	3M Speedglas	37-1101-20SW	**32NC50**
PAPR Assembly with Breathing Tube	Blower Unit, Breathing Tube, Flow Indicator, Leather Belt, Spark Arrestor, Filter Cover, Prefilter, HE Particulate Filter, Lithium-Ion Battery, Charger	3M	35-5401-01	**32NC32**
LPR-100 Half-Mask Respirators	S/M Respirator With P100 Filters	Miller Electric	ML00894	**34C395**
	M/L Respirator With P100 Filters	Miller Electric	ML00895	**36RC58**
	S/M Respirator With P100 Nuisance Level OV Relief Filters	Miller Electric	ML00994	**36RC59**
	M/L Respirator With P100 Nuisance Level OV Relief Filters	Miller Electric	ML00995	**36RC60**
Accessories				
	Battery Charger, For Use With 3M Adflo PAPR Systems	3M	35-0099-08	**32NC26**
	Battery, For Use With 3M Adflo PAPR Systems	3M	35-1099-07	**32NC27**









VENTBOSS BY ROBOVENT

Fume Collectors

▪ Rated at MERV 13

Collectors are suitable for low-production manual welding applications. Feature spark arrestance and easy-to-maintain filters.

Series 100—Roll-around units move quickly into position, to provide powerful source capture extraction. Fume arms have external support for increased air draw. Manual compressed air filter cleaning.

Series 200—Stand-alone weld booths feature simple plug-n-play setup: just connect the power and compressed air. Feature a large work surface, pulse filter cleaning, and side panels.

Series 300—Compact, space-saving units have a fork pocket base for easy relocation. The large air draw accommodates multiple applications, depending upon the configuration. Pulse filter cleaning.

Air Flow (cfm)	Input Voltage	Includes	Mfr. Model	Item No.
Series 100, Portable				
150	110V	(1) 2" x 15 ft. Flex Hose and Flared Cone Attachment	G130	**45WD29**
750	110V	(1) 6" x 10 ft. Fume Arm with Light	G110	**45WD24**
	110V	(1) 6" x 12 ft. Flex Hose with Light	G112	**45WD26**
	110V	(1) 6" x 14" Fume Arm with Light	G111	**45WD25**
1200	110V	(2) 6" x 10 ft. Fume Arm with Light	G121	**45WD28**
	110V	(1) 8 ft. x 10 ft. Fume Arm with Light	G120	**45WD27**
Series 200, Booth				
2000	460V	Minihelic Filter Pressure Gauge, eTech Controls	S220	**13A907**
Series 300, Space Saver				
Floor Mount				
1500	480V	—	S310	**5YAK4**
	480V	24" sq BackDraft Intake	S320	**5YAK0**
	480V	(1) 8" x 10' Fume Arm	S311	**5YAK8**
	480V	(2) 6" x 10' Fume Arms	S313	**5YAK6**
Wall Mount				
1500	480V	—	S315	**5YAK5**
	480V	24" sq BackDraft Intake	S321	**5YAK1**
	480V	(1) 8" x 10' Fume Arm	S316	**5YAK9**
Accessories				
Flared Intake Cone, For Use With Fume Extractor 45WD29			FC-VB	**13A908**
Slotted Intake Tube, For Use With Fume Extractor 45WD29			ST-VB	**13A909**
Wheel Kit, For Use With Fume/Smoke Collectors 5YAL4, 5YAL5, 5YAL6			WK-S200	**5YAL7**





LINCOLN ELECTRIC Miller

Fume Extractors

LINCOLN

Automatic start/stop current sensor extracts only when needed, extending motor life. Choose low or high extraction settings.

Miniflex®—Made for light-duty welding applications, its small size and easy portability help make the Miniflex particularly well-suited for use in confined and hard-to-reach spaces. Quiet operation.

X-Tractor®—The high-efficiency polyester filter can be cleaned using compressed air with the rotary air jet system. Includes 16-ft. flexible hose, 2 spare sets of motor carbon brushes, and 12-ft. power cord.

Mobiflex®—Mobile low-vacuum fume extractor is ideal for light- to medium-duty use in small manufacturing facilities, schools and training environments, and more. An internal spark arrestor prevents sparks from reaching the filter. Do not use with cutting or arc gouging operations.

MILLER

Nanofiber filter technology captures submicron welding particles.

FILTAIR® 130—Compact, portable extractor has easy-rolling casters. The high-efficiency cartridge filter is manually cleanable to help extend service life and minimize maintenance. Adjustable airflow. Includes 20-ft. power cord and 8-ft. collection hose.

FILTAIR® MWX—Delivers MERV 15 filters that capture submicron weld fumes and provide a longer holding capacity.

FILTAIR® SWX-S—Designed specifically for welding applications with higher arc times, this telescoping-arm unit can be mounted on a wall or column. Includes a self-cleaning filter and all mounting brackets. MERV 15 rated.

FILTAIR® SWX-D—Similar to the SWX-S, but with a disposable filter, this unit is designed to be used in lighter manufacturing applications with lower arc times. Includes all mounting brackets.

FILTAIR® Capture 5—This system features Zoneflow™ technology that will collect up to 5-ft. radius of weld fumes and help produce cleaner air, increase efficiency and extend filter life.

Description	Air Flow (cfm)	Includes	Mfr. Model	Item No.
Lincoln Electric				
Miniflex®	95	8 ft. Hose, Filter, HEPA Filter, 2 Carbon Brushes, Motor Seals	K3972-3	**54RY18**
X-Tractor	55/115	Adapter, 16 ft. Hose, (2) Carbon Brushes, Motor Seals, Filter	K652-1	**5GWP7**
	55/115	Adapter, 16 ft. Hose, (2) Carbon Brushes, Motor Seals, Filter	K652-2	**5GWP6**
Mobiflex®	735	Filter, Flexible Hose, Relay Kit, 19 ft. Power Cord	K1653-4	**49JR62**
Miller Electric				
FILTAIR 130	132	8 ft. (2 in. I.D.) Hose	300595	**5FYE9**
FILTAIR MWX-D (Disposable Filter)	875	7 ft. Extraction Arm and Disposible Filter	951507	**36XR13**
	875	10 ft. Extraction Arm and Disposable Filter	951508	**36XR14**
	875	12 ft. Extraction Arm and Disposable Filter	951509	**36XR15**
FILTAIR MWX-S (Self Cleaning Filer)	875	7 ft. Extraction Arm and Self-Cleaning Filter	951510	**36XR10**
	875	10 ft. Extraction Arm and Self-Cleaning Filter	951511	**36XR11**
	875	12 ft. Extraction Arm and Self-Cleaning Filter	951512	**36XR12**
FILTAIR SWX-S	875	Filter, 12 ft. Extraction Arm, Mounting Brackets, Gauge	951518	**49WM46**
FILTAIR SWX-D	875	Filter Cabinet, 3-4.5 ft. Extraction Arm, Disposable Filter, High-Efficiency Filter, Blower, Minihelic Filter Gauge, Mounting Brackets	951619	**484X72**
FILTAIR Capture 5	900	Filter, 10-ft. Extraction Arm	951574	**20VE88**
	900	Filter, 12-ft. Extraction Arm	951575	**20VE89**
Miller Accessories				
For Use With FILTAIR 130				
Collection Hose, 17 ft. L x 1¾" dia.			300672	**5FYF0**
Collection Hose, 34 ft. L x 1¾" dia.			300673	**5FYF1**
Replacement Filter, 31 sq. ft. Media, 12" H x 8.5" dia.			301267	**5FYF2**
Flexible Funnel Nozzle, 5" Wide with Magnetic Base			300668	**5FYF3**
Slotted Nozzle, 11.8" Wide with Magnetic Base			300669	**5FYF4**
For Use With FILTAIR MWD-X				
Nanofiber Cartridge Filter, 490 sq. ft. Media			300539	**4VDJ8**

WESTWARD · STEINER · Hi temp High Temperature Material · TILLMAN™

Welding Blankets, Rolls and Pads

Welding Blankets—Use to protect workers and equipment from intense heat, flame, welding sparks, and molten metal splash.

Welding Blanket Rolls—When you need extended lengths or other custom size blankets, this economical solution can be cut to length.

Welding Pads—Welding pads are made with 1" of high-heat insulation, encased by a solvent-, abrasion, and puncture-resistant material. Can be used as kneeling pads, heat shield when working on hot vessels, and for insulating.


Welding Blanket
No. 1UYD3


Welding
Blanket Roll
No. 5PGU1


Welding Pad
No. 5PGX2

Width	Height	Material Weight	Thickness	Color	Brand	Item No.
Welding Blankets, With Grommet						
Uncoated Fiberglass, 1000°F						
6 ft.	4 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN92
	4 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE13
	4 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF48
	4 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN80
	4 ft.	32 oz./sq. yd.	0.080"	White	Steiner	1H173
	6 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN93
	6 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE14
	6 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF49
	6 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN81
	6 ft.	32 oz./sq. yd.	0.080"	White	Steiner	1H172
8 ft.	6 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN94
	6 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE15
	6 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF50
	6 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN82
	6 ft.	32 oz./sq. yd.	0.080"	White	Steiner	1H171
	8 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN95
	8 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE16
	8 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN83
	8 ft.	32 oz./sq. yd.	0.080"	White	Steiner	5UZ16
10 ft.	6 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN96
	6 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE17
	6 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF51
	6 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN84
	6 ft.	32 oz./sq. yd.	0.080"	White	Steiner	1H174
	8 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	36RD68
	8 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	36RD67
	8 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF52
	8 ft.	32 oz./sq. yd.	0.080"	White	Steiner	36RD66
	10 ft.	18 oz./sq. yd.	0.035"	Tan	Westward	22RN97
	10 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	6NE18
	10 ft.	32 oz./sq. yd.	0.060"	Orange	Steiner	29PF53
	10 ft.	32 oz./sq. yd.	0.080"	White	Westward	22RN85
	10 ft.	32 oz./sq. yd.	0.080"	White	Steiner	5UZ15
Acrylic Coated Fiberglass, 1000°F						
6 ft.	4 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	1H169
	4 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN86
	6 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	1H168
	6 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN87
8 ft.	6 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	1H167
	6 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN88
	8 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	5UZ18
	8 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN89
10 ft.	6 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	1H170
	6 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN90
	10 ft.	24 oz./sq. yd.	0.035"	Amber	Tillman	54EF48
	10 ft.	28 oz./sq. yd.	0.050"	Black	Steiner	5UZ17
	10 ft.	28 oz./sq. yd.	0.051"	Black	Westward	22RN91
Vermiculite Coated Fiberglass, 1200°F						
6 ft.	4 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF54
	6 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF55
8 ft.	6 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF56
10 ft.	6 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF57
	8 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF58
	10 ft.	26 oz./sq. yd.	0.050"	Black	Steiner	29PF59
Silicone Coated Fiberglass, 1750°F						
5 ft.	5 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV0
6 ft.	5 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV1
	6 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV2
8 ft.	6 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV3
10 ft.	8 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV4
	10 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGV5
Welding Blankets, Without Grommet						
Carbonized Fiber, 1800°F						
1 ft. 6"	1 ft. 6"	16 oz./sq. yd.	0.150"	Black	Steiner	6NE19
6 ft.	4 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3WE70
	4 ft.	24 oz./sq. yd.	0.250"	Black	Steiner	29PF28
	6 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3WE71
	6 ft.	24 oz./sq. yd.	0.250"	Black	Steiner	29PF29
8 ft.	6 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3WE72
	6 ft.	24 oz./sq. yd.	0.250"	Black	Steiner	29PF30
	8 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	36RD65
10 ft.	6 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3WE73
	8 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	1UYD3
	8 ft.	24 oz./sq. yd.	0.250"	Black	Steiner	29PF32
	10 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	1UYD4
	10 ft.	24 oz./sq. yd.	0.250"	Black	Steiner	29PF33
Welding Blanket Rolls						
Uncoated Fiberglass, 1000°F						
150 ft.	3 ft. 3"	16 oz./sq. yd.	0.040"	Pink	Westward	22RN98
	5 ft.	18 oz./sq. yd.	0.030"	Tan	Westward	22RN99
	5 ft.	18 oz./sq. yd.	0.035"	Tan	Steiner	5JE12
Acrylic Coated Fiberglass, 1000°F						
150 ft.	3 ft. 3"	16 oz./sq. yd.	0.016"	Pink	Steiner	3FKT4
	5 ft.	16 oz./sq. yd.	0.016"	Pink	Steiner	54TA75
Silicone Coated Fiberglass, 1000°F						
150 ft.	3 ft.	32 oz./sq. yd.	0.040"	Red	Westward	22RP01
	5 ft.	32 oz./sq. yd.	0.035"	Red	Steiner	54TA74
Silicone Coated Fiberglass, 1750°F						
75 ft.	3 ft. 3"	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGU0
	5 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGU2
150 ft.	3 ft. 3"	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGT9
	5 ft.	32 oz./sq. yd.	0.032"	Red	Hi Temp	5PGU1
Carbonized Fiber, 1800°F						
50 ft.	4 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3FKT6
	4 ft.	16 oz./sq. yd.	0.150"	Black	Steiner	3FKT5
Silica Cloth, 1800°F						
150 ft.	3 ft.	18 oz./sq. yd.	0.030"	Tan	Steiner	3FKT3
Welding Pads						
Silicone Coated Fiberglass, 1750°F						
1 ft.	1 ft. 3"	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW2
	1 ft. 3"	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW3 *
2 ft.	2 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW4
	2 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW5 *
	4 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW6
	4 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGW7 *
2 ft. 6"	2 ft. 6"	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX0
	2 ft. 6"	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX1 *
3 ft.	3 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX2
5 ft.	5 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX3
	6 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX4
6 ft.	6 ft.	32 oz./sq. yd.	1.000"	Red	Hi Temp	5PGX6

**** Stainless mesh on 1 side.***


No. 22RP02

WESTWARD

Welding Umbrellas

Made of flame-retardant cloth and can be tilted to the desired position. Withstand temps. up to 150°F. Meet NFPA 701.

Protective Color	Height	Width	Item No.
Blue	9 ft.	6 ft. 6"	22RP02
Red	9 ft.	6 ft. 6"	22RP03



Hi temp High Temperature Material

Pipe Wrap

Includes hooks and elastic strapping to secure around pipes.

Height	Width	Thickness	Item No.
Pink Silicone Coated Fiberglass, 1000°F			
3 ft.	8 in.	1.000"	5PGX7
	1 ft.	1.000"	5PGY0
4 ft.	8 in.	1.000"	5PGX8
	1 ft.	1.000"	5PGY1
5 ft.	8 in.	1.000"	5PGX9
8 ft.	1 ft.	1.000"	5PGY2

Welding Strip Curtains

STEINER

8"W PVC strips protect individuals outside welding area from spark, spatter, and arc flash, while still permitting access. Available with universal mount for doorways, or with pipe mount clamps for hanging from pipe up to 2" dia.

Width	Height	Thickness	▶CHOOSE: Color	Item No.
Transparent PVC				
Universal Hardware				
6 ft.	6 ft.	0.080"	Amber, Blue	J1591
8 ft.	6 ft.	0.080"		J1595
	8 ft.	0.080"		J1596
10 ft.	6 ft.	0.080"		J1594
	8 ft.	0.080"		J1597
Pipe Mount Hardware				
6 ft.	6 ft.	0.080"	Amber, Blue	J1592
8 ft.	6 ft.	0.080"		J1600
	8 ft.	0.080"		J1601
10 ft.	6 ft.	0.080"		J1599
	8 ft.	0.080"		J1602
Clamp Pipe Mount for Strip Doors				3KMK6


No. J1591

Scan. Order. Done.
Details on page A1.

Curtain w/Window
No. 36J649





Curtain
No. J4038



Curtain Roll
w/Grommet
No. H6751

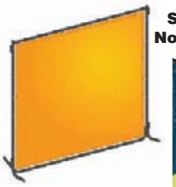
STEINER WESTWARD Hi temp High Temperature Material

Welding Curtains and Rolls

Curtains—Use to enclose robotic welding cells and other welding work areas to create a customized, enclosed space and help protect personnel and equipment from welding sparks, spatter, and slag. Silicone Coated Fiberglass Curtains have one grommet on each corner.

Curtain Rolls—When you need extended or other custom sized curtains, this economical solution can be cut to size. Curtain Rolls With Grommet have grommets on 12" centers on one side.

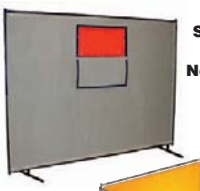
Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.
Curtains						
Transparent Vinyl, 150°F						
4 ft.	6 ft.	13 oz./sq. yd.	0.014"	Gray	Steiner	H6752
6 ft.	4 ft.	13 oz./sq. yd.	0.014"	Yellow, Orange	Steiner	H6752
		36 oz./sq. yd.	0.040"	Orange	Steiner	29PF37
	6 ft.	13 oz./sq. yd.	0.014"	Yellow, Orange, Gray	Steiner	H6753
		36 oz./sq. yd.	0.040"	Orange	Steiner	29PF38
	8 ft.	13 oz./sq. yd.	0.014"	Gray	Steiner	H6754
8 ft.	6 ft.	13 oz./sq. yd.	0.014"	Yellow, Orange	Steiner	H6754
		36 oz./sq. yd.	0.040"	Orange	Steiner	29PF39
10 ft.	8 ft.	13 oz./sq. yd.	0.014"	Orange	Steiner	38RL39
Cotton Duck, 350°F						
6 ft.	4 ft.	12 oz./sq. yd.	0.025"	Olive	Steiner	5UZ09
	6 ft.	12 oz./sq. yd.	0.025"	Olive	Steiner	3T974
8 ft.		12 oz./sq. yd.	0.025"	Olive	Steiner	3T975
Transparent PVC, 150°F						
6 ft.	4 ft.	13 oz./sq. yd.	0.014"	Yellow, Red, Gray, Blue	Westward	J4038
	6 ft.	13 oz./sq. yd.	0.014"	Yellow, Red, Gray, Blue	Westward	J4039
8 ft.		13 oz./sq. yd.	0.014"	Yellow, Red, Gray, Blue	Westward	J4040
Silicone Coated Fiberglass, 1200°F						
5 ft.	5 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGV6
6 ft.	6 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGV7
		20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGV8
	8 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGV9
8 ft.	10 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGW0
10 ft.	12 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGW1
Curtain with Windows						
Acrylic Coated Fiberglass, 1000°F						
6 ft.	6 ft.	16 oz./sq. yd.	0.016"	Orange/Red	Steiner	29PF25
8 ft.		16 oz./sq. yd.	0.016"	Orange/Red	Steiner	29PF26
Cotton Duck, 350°F						
6 ft.	6 ft.	12 oz./sq. yd.	0.025"	Olive/Orange	Steiner	29PF21
8 ft.		12 oz./sq. yd.	0.025"	Olive/Orange	Steiner	29PF22
Silicone Coated Fiberglass, 1200°F						
6 ft.	6 ft.	17 oz./sq. yd.	0.017"	Gray/Orange	Hi Temp	36J649
	8 ft.	17 oz./sq. yd.	0.017"	Gray/Orange	Hi Temp	36J650
Curtain Rolls, Without Grommet						
Silicone Coated Fiberglass, 1000°F						
150 ft.	3 ft. 3"	17 oz./sq. yd.	0.017"	Pink	Hi Temp	5PGU5
	5 ft.	17 oz./sq. yd.	0.017"	Pink	Hi Temp	5PGU6
Silicone Coated Fiberglass, 1200°F						
150 ft.	3 ft. 3"	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGU3
	5 ft.	20 oz./sq. yd.	0.021"	Orange	Hi Temp	5PGU4
Curtain Rolls, With Grommet						
Cotton Duck, 150°F						
75 ft.	5 ft.	12 oz./sq. yd.	0.025"	Olive	Steiner	4NFV2
Transparent Vinyl, 150°F						
75 ft.	5 ft.	13 oz./sq. yd.	0.014"	Yellow, Orange, Gray	Steiner	H6751
Transparent PVC, 150°F						
75 ft.	5 ft.	13 oz./sq. yd.	0.014"	Orange/Yellow, Red, Gray, Blue	Westward	J4044



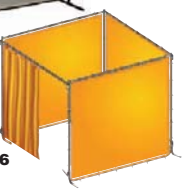
Screen
No. J4043



Curtain Wall
No. 3FKP9



Screen w/
Window
No. 29PF20



Booth
No. J4046

STEINER WESTWARD

Screens, Curtain Walls and Booths

Screens, walls, and booths help safely confine hazardous sparks, arcs, or open flame in open areas, where there is no place to hang a curtain.

Screens—Easy-to-assemble kits include flame- and heat-resistant sides and a sturdy, freestanding steel frame.

Curtain Walls and Booths—Track and roller Curtain Walls provide good protection, while maintaining easy access. Kit includes curtain, 18-ga. steel track, rollers, and suspension mounting hardware. 4-sided Welding Booth Kit enclosures have one side with a sliding curtain wall and 3 fixed sides.

Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.	
Screen							
Transparent Vinyl, 150°F							
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6755	*
	6 ft	13 oz/sq yd	0.013 in	Blue	Steiner	54TA82	
		13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6756	*
	10 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6758	*
8 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6757	*
10 ft		13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6758	*
Transparent Vinyl HD, 150°F							
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6760	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF34	†
	6 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6761	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF35	†
	10 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6759	†
8 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6762	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF36	†
10 ft		13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6759	†
Cotton Duck, 350°F							
6 ft	4 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5UZ19	*
	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	3T969	*
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	3T970	*
10 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF43	*
Cotton Duck HD, 350°F							
6 ft	4 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5KNK8	†
		12 oz/sq yd	0.025 in	Olive	Steiner	5KNK9	†
8 ft	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5KNL0	†
10 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF47	*
Transparent PVC, 150°F							
4 ft		13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4041	‡
6 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4042	‡
8 ft		13 oz/sq yd	0.014 in	Blue	Westward	J4043	
		13 oz/sq yd	0.014 in	Yellow, Red, Gray	Westward	J4043	‡
Screen with Window							
Cotton Duck HD, 350°F							
6 ft	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	29PF19	†
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF20	†
Acrylic Coated Fiberglass HD, 1,000°F							
6 ft	6 ft	16 oz/sq yd	0.016 in	Red	Steiner	29PF23	†
8 ft		16 oz/sq yd	0.016 in	Red	Steiner	29PF24	†
Accessories							
2-Panel Connector for Heavy-Duty Screens					Steiner	5KNN0	
2-Panel Connector for Protect-O-Screens® Classic, Pkg. of 2					Steiner	3KMK5	
Caster Leg for Heavy-Duty Screens, 1 ea.					Steiner	5KNN5	
Casters for Heavy-Duty Screens					Steiner	5KNN3	
Casters for Heavy-Duty Screens, w/Lock					Steiner	5KNN4	
Curtain S-Hooks, Pkg. of 10					Steiner	3KMK3	
Replacement Weld-View™ Window 1ft. x 2ft.					Steiner	29PF27	
Rubber Tread							
Plain Bearing							
Casters for Protect-O-Screens® Classic, Pkg. of 4					Steiner	5UZ25	

Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.	
Curtain Wall							
Vinyl Laminated Polyester, 150°F							
6 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKP9	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR2	
8 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR3	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR4	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR5	
10 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR6	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR7	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR8	
Curved Curtain Wall							
Vinyl Laminated Polyester, 150°F							
4 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR9	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKT1	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKT2	
Booth Kit							
Transparent PVC, 150°F							
6 ft	6 ft	13 oz/sq yd	0.014 in	Red, Yellow	Westward	J4046	‡
8 ft		13 oz/sq yd	0.014 in	Red, Yellow	Westward	J4047	‡

** ¾" Square tube frame. † 1" Square tube frame. ‡ 1" Round tube frame.*

Find even MORE on Grainger.com®



Welding Cart w/Drawers
No. 19D984



WeldScoot Cart
No. 20UH11



Utility Cart for Welders
No. 6JDU6



Running Gear & Cylinder Rack Cart
No. 1Z572

WESTWARD Huot LINCOLN ELECTRIC Miller

Welding Carts, Cabinets And Trailers

Conveniently provide mobility and easy maneuverability of welding supplies and equipment to any jobsite.

Description	Material	Cylinder Holder	Series	For Use With	Item No.
Westward					
Welding Cart w/Cylinder Strap	Steel	7 39/64"	—	Welders	19D985
Welding Cart with Drawers	Steel	10 1/64"	—	Welders	19D984
Huot					
WeldScoot Cart, Red	—	20, 40 or 80 cu ft tanks	WeldScoot	Welder, Tank & Accessories	20UH11
WeldScoot Cart, Blue	—	20, 40 or 80 cu ft tanks	WeldScoot	Welder, Tank & Accessories	20UH12
Lincoln Electric					
Welding Cart for Welders	Steel	—	—	Lincoln Electric's Wire Feed / MIG Welders	6JDT2
Utility Cart for Welders	Steel	—	—	Lincoln Electric's AC-225C, SP-140T, SP-180T, POWER MIG® 140C, POWER MIG 180C	6JDU6
Miller Electric					
Running Gear/Cart	—	—	ArcArmor	Mfr. No. 907612, 917613, 907614, 907693	31MJ89
Running Gear and Cylinder Rack Cart	—	—	Millermatic 130, Maxstar	Econotig, Millermatic 130, And Maxstar 91, 152	1Z572
Running Gear Cart For Moving Large Welders	—	—	—	Gas LP Bobcat and Trailblazer Models	29PF72
Running Gear Cart	Metal	—	Dynasty®, Maxstar®	Mfr. No. 951466, 951469, 951468, 907514, 907550, 907551, 907537, 907552, 907553, 907538, 907539, 907537002, 907514001, 907538002, 907539001, 907685002, 907685001, 951666, 951667, 907686002, 907686001, 907682, 907683, 907684, 907685, 907686, 951668, 951669	48VF62
Running Gear	Steel	—	Bobcat Trailblazer	Gas LP Bobcat and Trailblazer Models	49WM57
Running Gear with Cylinder Rack	Steel	10 1/64"	Axcess 450	Dual Feeder	49WM59
Two Wheel Trailer	Steel	Not Included	Bobcat Trailblazer	Gas LP Bobcat and Trailblazer Models	54PK50

Miller

Wire Feeders

- Input voltage: 24VAC

S-74S

Features wire speed control, factory-set run-in control, and quick-release drive-roll pressure adjustment arm.

Series	Wire Size (in.)	Includes	H (in.)	W (in.)	D (in.)	Item No.
20	0.023-5/64	—	16	12 3/8	27 7/8	494D75
ArcReach®	0.023-5/64	—	15 1/2	9	21	494D97
Piperworx FieldPRO 350	—	—	13	18	21 1/2	36RD86
S-74S	0.023-5/64	15 ft. 400 Amp Gun, Gas Solenoid, Drive Rolls, 10 ft. 14 Pin Cord and 5 Contact Tips	14	12	27	5GWN6



No. 494D75



No. 36RD86



Handler 140
No. 4TY18



Easy Core 125
No. 5GWP8



Millermatic 141
No. 31MJ85

MIG Welders

HOBART

Handler® Series feature self-resetting thermal overload and motor protection.

Handler® 140—Has all the features of the Handler 130 and is MIG ready, with no additional kit required. 5 voltage settings help you fine tune your arc.

Handler® 190—Spool gun ready welder has all the features of the Handler 140, plus a 7-position voltage switch and infinite wire feed speed control.

Handler® 210—Comes with all the features of the Handler 190, plus 7 voltage settings at 230V, and 4 voltage settings at 115V. Most portable at 210A.

LINCOLN

Spool gun ready. All welders, except Easy-Core™ 125 and Handy MIG® feature Diamond Core Technology™ to help ensure an excellent low-spatter arc and a wide voltage range.

Easy-Core™ 125—Includes MIG gun, 10 ft. cable with brass connection, 4-Pin MS-Type connection, contact tips, gasless nozzle, spindle adapter, drive roll, flux core wire, and 10-ft. cable with clamp.

EasyMIG® 180—Includes Magnum® 100L gun and 10-ft. cable assembly with brass gun connection and 4-pin MS-Type connection for trigger control; 0.025 and 0.035 contact tips; gas nozzle; gasless nozzle; and a spindle adapter for 8" dia. spools. Also includes drive roll, gas regulator and hose, and sample spools of MIG and flux core wire.

Handy MIG®—User friendly welder comes with just about everything you need to get started welding. Includes gun and cable assembly, work cable with work clamp, gasless nozzle, gas nozzle, gas regulator, gas hose, flux-core and MIG wire, contact tips, handshield, and chipping hammer/brush.

Power MIG® 180C—Includes 10-ft. Magnum® PRO 100L gun, gas and gasless nozzles, cable liner, contact tips, work cable and clamp, gas regulator and hose, adapters, MIG and flux-cored wire, drive rolls, and wire guides.

Power MIG® 256—Includes 15-ft. Magnum PRO® MIG gun, top-mounted expendables tray, work clamp with 10-ft. cable, 10-ft. power cable with plug, drive roll and wire guide, and gas regulator and hose kit.

MILLER

Millermatic® 141 and 211—Feature Auto Spool Gun Detect™ that automatically detects when spool gun is hooked to the machine. Auto-Set™ feature allows quick and easy setup with spatter-free start.

Millermatic® 252—Digital front panel with built-in timer menu to preset voltage and wire feed speed. Includes 15-ft. MIG gun, 10-ft. cable with work clamp, regulator and hose, dual-groove drive rolls, and contact tips. Auto Gun Detect automatically adjusts voltage and wire feed speed.

Millermatic® 350P—Weld with standard MIG gun, spool or push-pull guns. Includes 10-ft. power cord, 15-ft. MIG gun, 10-ft. cable and clamp, flow gauge and hose, contact tips, drive rolls, and Cd. Auto Gun Detect. Aluminum models are optimized for aluminum welding, and are only compatible with spool or push-pull guns.

Trade Name	Welding Processes	Output Range	Rated Output	Input Voltage	Wire Size	Material Thickness Mild Steel	Material Thickness Aluminum	Duty Cycle	Item No.
Hobart									
Handler 140	Flux Core, MIG	25-140A DC	90A@18.5VDC	120VAC	0.024" to 0.035", Flux 0.035"	24 ga. to ¼"	16 to 11 ga.	20%	**4TY18**
Handler 190		25-190A DC	130A@21.5VDC	240VAC	0.023" to 0.045"	24 ga. to 5⁄16"	16 ga. to 3⁄16"	30%	**13Z834**
Handler 210		25-140A DC/25-210A DC	90A@19VDC/150A@23VDC	120/240VAC	0.023" to 0.045"	24 ga. to ⅜"	18 ga. to ¼"	20%/30%	**13Z833**
Ironman 230		30-250A DC	175A@25.5VDC	240VAC	0.023" to 0.045"	24 ga. to ½"	16 ga. To ½"	60%	**6DLV9**
Lincoln Electric									
Easy Core 125	Flux Core Only	30-125A DC	90A@19VDC	120VAC	0.025" to 0.030", Flux 0.030" to 0.035"	20 ga. to 5⁄16"	—	20%	**5GWP8**
Easy MIG 140	Flux Core, MIG	30-140A DC	90A@19.5VDC	120VAC	0.025" to 0.030"	24 ga. to 3⁄16"	22 to 10 ga.	20%	**3LVR8**
Easy MIG 180		30-180A DC	130A@17.6VDC/130A@20VDC	208/240VAC	0.025" to 0.035", Flux 0.030" to 0.045"	24 ga. to 3⁄16"	—	30%	**5GWP9**
Handy MIG		35-88A DC	70A@17VDC	115/160VAC	0.025" to 0.035"	24 ga. to ⅛"	—	20%	**54RY14**
Power MIG 140C		30-140A DC	90A@19.5VDC	120VAC	0.025" to 0.045"	24 ga. to 3⁄16"	—	20%	**19R738**
Power MIG 180C		30-180A DC	130A@17VDC/130A@20VDC	208/240VAC	0.025" to 0.045"	24 ga. to 3⁄16"	22 ga. to 3⁄16"	30%	**19R739**
Power MIG 256		30-300A DC	250A@26VDC	208/240VAC	0.025" to 0.045"	22 ga. to ½"	16 ga. To ½"	40%	**19R741**
		30-300A DC	250A@26VDC	240/480/575VAC	0.025" to 0.045"	22 ga. to ½"	16 ga. To ½"	40%	**19R742**
Miller Electric									
Millermatic 141	Flux Core, MIG	30-140A DC	90A@18.5VDC	120VAC	0.023" to 0.035", Flux 0.030" to 0.035"	24 ga. to 3⁄16"	14 to 18 ga.	20%	**31MJ85**
		30-140A DC	90A@18.5VDC	120VAC	0.023" to 0.035", Flux 0.030" to 0.035"	24 ga. to 3⁄16"	14 to 18 ga.	20%	**31MJ86**
Millermatic 211		30-230A DC	150A@21VDC	120/240VAC	0.023" to 0.035", Flux 0.030" to 0.045"	24 ga. to ⅜"	18 ga. to ⅜"	40%	**40JC24**
		30-230A DC	150A@21VDC	120/240VAC	0.023" to 0.035", Flux 0.030" to 0.045"	24 ga. to ⅜"	18 ga. to ⅜"	40%	**40JC22**
Millermatic 212		30-210A DC	160A@24.5VDC	208/240VAC	0.023" to 0.035", Flux 0.030" to 0.045"	22 ga. to ⅜"	14 ga. to ⅜"	60%	**4YPL6**
		30-210A DC	160A@24.5VDC	208/240VAC	0.023" to 0.035", Flux 0.030" to 0.045"	22 ga. to ⅜"	14 ga. to ⅜"	60%	**4YPL7**
Millermatic 252		30-300A DC	200A@28VDC	208/240VAC	0.023" to 0.045", Flux 0.030 to 0.045"	22 ga. to ½"	14 ga. to ⅜"	60%	**2GPJ9**
		30-300A DC	200A@28VDC/250A@28VDC	240/480/575VAC	0.023" to 0.035", Flux 0.030" to 0.045"	22 ga. to ½"	14 ga. to ⅜"	60%/40%	**2RVD2**
		30-300A DC	200A@28VDC/250A@28VDC	208/240VAC	0.023" to 0.045", Flux 0.030 to 0.045"	22 ga. to ½"	14 ga. to ⅜"	60%/40%	**5GVZ3**
		30-300A DC	200A@28VDC/250A@28VDC	240/480/575VAC	0.023" to 0.045", Flux 0.030 to 0.045"	22 ga. to ½"	14 ga. to ⅜"	60%/40%	**5GVZ4**
Millermatic 350P	Flux Core, MIG, Pulsed MIG	25-400A DC	300A@32VDC	208/240/480VAC	0.023" to 0.045", Aluminum 0.035" to 0.047"	22 ga. to ½"	18 ga. to ½"	60%	**5GWA1**
Millermatic 350P Aluminum	Flux Core, MIG	25-400A DC	300A@32VDC	208/240/480VAC	0.035" to 0.047"	24 ga. to ½"	18 ga. to ½"	60%	**36RD88**
		25-400A DC	300A@32VDC	208/240/480VAC	0.035" to 0.047"	25 ga. to ½"	18 ga. to ½"	60%	**36RD89**
		25-400A DC	300A@32VDC	208/240/480VAC	0.035" to 0.047"	26 ga. to ½"	18 ga. to ½"	60%	**36RD90**
		25-400A DC	300A@32VDC	208/240/480VAC	0.035" to 0.047"	28 ga. to ½"	18 ga. to ½"	60%	**36RD92**

MIG Spool Guns



Lincoln® Electric—Easy-to-set-up Magnum® Series Spool Guns can be used with all aluminum alloys and recommended wire diameters. No. 49JR60 includes Magnum® PRO Expendables: Copper Plus™ contact tips and long-life diffusers with Anti-Seize™ threads. No. 6JDU0 has on-board contact tip storage, and a fixed spool brake to help prevent tangles. Easily replaceable barrel.

Miller® Spoolmate™ 100—Suitable for welding aluminum and soft alloy wires. Includes extra contact tips, nozzle, and carrying case.

Miller® Spoolmate™ 150—Air-cooled spool gun can be used with both 4000 and 5000 Series aluminum wire. Includes 20-ft. cable and extra contact tips and nozzle.

Miller® Spoolmate™ 200—Features 20-ft. direct connect cable, wire feed speed adjustment, easy-to-access drive assembly and drive rolls, 2-stage trigger with built-In gas valve, toolless barrel removal, and 3 gun barrels.

Miller® Spoolmatic—For aluminum welding. Feature 2-stage trigger and spool canister that rotates 180°. No. 5GWK8 includes 15-ft. cable. No. 5GWK9 includes 30-ft. cable.

Tweco®—Use in MIG welding operations, with steel, stainless steel and aluminum. Uses small 4" spools.

Series	Amps AC	Wire Size	For Use With	Mfr. Model	Item No.
Lincoln Electric					
Magnum® PRO	—	0.030" to 0.035"	—	K3269-1	**49JR60**
Magnum 100S	—	0.030 in. to 0.035 in.	Lincoln Electric's POWER MIG 216, POWER MIG 180C, POWER MIG 140C, SP-180T, SP-140T	K2532-1	**6JDU3**
Miller Electric					
Spoolmate 100	135A	0.023 in. to 0.035 in.	31MJ85, 31MJ86, 31MJ88, and 19D433	300371	**2RVC9**
Spoolmate™ 150	150	0.030" to 0.035"	—	301272	**48VF65**
Spoolmate™ 200	160A	0.030 in. to 0.035 in.	31MJ85, 31MJ86, 31MJ88, and 19D433	300497	**10N006**
Spoolmatic®	200A	0.030 in. to 0.045 in.	Millermatic 250	195156	**5GWK8**
	200A	0.030 in. to 0.045 in.	Millermatic 250	130831	**5GWK9**
Tweco					
Tweco Fabricator Spool Gun	—	0.023 in., 0.030 in., 0.035 in.	Fabricator 141i and 181i	10271390	**46Z440**

MIG Welding Guns

WELDING GUNS

BTB Air-Cooled MIG Guns

Lightweight, with easy-to-change trigger options. Interchangeable power pins are compatible with feeders from most major manufacturers.

Clean Air™ Fume Extraction MIG Guns

Nozzle shroud adjusts to 1 of 4 positions, to improve fume capture, gas flow, and weld access. Features rubber-molded handle and 360° swivel vacuum hose. Compatible with vacuum systems from most manufacturers. Use with solid and flux-core wire.

Dura-Flux™ Self-Shielded Flux-Cored Guns

Each features an ultra-heavy steel monocoil power cable. Compatible with feeders from most major manufacturers.

S-Gun™ 250 Amp Air-Cooled MIG Guns

Feature a locked rotatable neck, steel monocoil power cable, and molded handle.

Magnum®

Small, lightweight guns include connector. PRO Series guns have high-quality copper and aluminum parts to help ensure superior electrical contact and heat dissipation.

Hobart-Compatible

Air-cooled. Nos. 5XRX8 and 5XRX9 are semiautomatic.

M-Series

Rotatable gooseneck, 3-pc. nozzle construction and interchangeable contact tips. Brass contact tip adapter. 100% duty cycle with CO_2 gas, 60% with mixed gas.

Tweco

Air cooled. No. 3DUK6 is rated at 60% duty cycle using CO_2 gas. No. 1UMJ4 is constructed with diamond grip handles, and has insulated conductor tubes with metal jacketing.

GOOSENECK WELDING GUNS

XR™ Pistol Grip

Feature adjustable gun barrel, trigger hold, and replaceable feed cable liner.

XR Aluma Pro

Aluminum, series-specific tension setting ensures smooth push/pull wire feeding performance. Feed wire at 900 ipm. 3¾ turn potentiometer. Easy-to-rotate, self-seating head tube. Trigger has wiping action to keep contact points clean for reliable connection. Feature trigger hold, isolated common knurled drive roll, and replaceable feed cable liner. For use with XR™ control or Millermatic® 350P.

Series	Amps	Wire Size	Rear Connec.	Tip Series	Cable Length (ft.)	Neck Tube Angle	Neck Tube Size	Neck Tube Type	Liner	Mfr. Model	Item No.
Bernard											
BTB	150A	0.030 in.	Miller®	Centerfire™	15	45°	Short	Rotatable	Universal Conventional Liner	Q1515AB8BM	**11Z562**
BTB, B Series	200A	0.063 in.	Miller®	Centerfire™	15	45°	Short	Rotatable	Universal Conventional Liner	Q2015AB8CMC	**11Z564**
	300A	0.045"	Miller®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q3015AE8EMC	**11Z516**
	300A	0.078 in.	Lincoln®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q3015AE8ELC	**11Z518**
	300A	0.078 in.	Miller®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q3015AE8HMC	**11Z520**
	400A	0.045"	Miller®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q4015AE8EMC	**11Z521**
	400A	0.0625"	Miller®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q4015AE8IMC	**11Z572**
	400A	0.078 in.	Miller®	Centerfire™	25	45°	Medium	Rotatable	Universal Conventional Liner	Q4025AE8EMC	**38VL89**
BTB, O Series	200A	0.063 in.	Miller®	Centerfire™	15	30°	Long	Fixed	Universal Conventional Liner	Q2015TB8CMC	**11Z566**
	200A	0.063 in.	Tweco®	Centerfire™	15	45°	Short	Rotatable	Universal Conventional Liner	Q2015TB8CTC	**11Z567**
	300A	0.045"	Miller®	Quik Tip™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q3015TE5EMC	**45EJ41**
	300A	0.052"	Miller®	Quik Tip™	15	45°	Medium	Rotatable	Universal Conventional Liner	S3015TE5HMC	**38VL74**
	400A	0.045"	Miller®	Quik Tip™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q4015TE5EMC	**45EJ42**
	400A	0.045"	Miller®	Centerfire™	15	45°	Medium	Rotatable	Universal Conventional Liner	Q4015TE8EMC	**11Z573**
	500A	0.0625"	Miller®	Quik Tip™	15	45°	Long	Rotatable	Universal Conventional Liner	S5015GH5IMC	**45EJ43**
	500A	0.0625"	Miller®	Centerfire™	15	60°	Long	Rotatable	Universal Conventional Liner	Q5015GI8IMC	**11Z576**
	500A	0.094 in.	Miller®	Centerfire™	15	60°	Long	Rotatable	Universal Conventional Liner	Q5015GI8LMC	**11Z524**
BTB, T Series	400A	0.045"	Miller®	TOUGH LOCK™	15	60°	Short	Fixed	QUICK LOAD™ Liner	Q4015MP3EMQ	**38VL85**
	400A	0.045"	Miller®	TOUGH LOCK™	15	60°	Medium	Fixed	Universal Conventional Liner	Q4015MS3EMC	**38VL82**
	400A	0.078 in.	Miller®	TOUGH LOCK™	12	60°	Medium	Fixed	QUICK LOAD™ Liner	Q4012MS3IMQ	**38VL81**
	400A	0.078 in.	Miller®	TOUGH LOCK™	25	60°	Medium	Fixed	Universal Conventional Liner	Q4025MS3EMC	**38VL90**
Clean Air™	400A	0.045"	Miller®	Centerfire™	15	60°	Medium	Fixed	Universal Conventional Liner	CL4015NK8EMC	**38VM46**
	400A	0.0625"	Miller®	TOUGH LOCK™	15	60°	Medium	Fixed	Universal Conventional Liner	CL4015NK3IMC	**38VM47**
Dura-Flux™	350A	0.063 in. to 0.094 in.	Miller®	Centerfire™	15	60°	Short	Flexible	Power Pin Liner	FLX3515AM	**11Z525**
	350A	0.063 in. to 0.094 in.	Tweco®	Centerfire™	15	60°	Short	Flexible	Power Pin Liner	FLX3515AT	**11Z527**



CONTINUED

CONTINUED



Hobart H100s2-10
No. 5XRX8



Weldskill 250
No. 1UMJ4

MIG Welding Guns

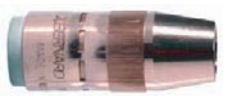
BERNARD™ LINCOLN ELECTRIC Miller Tweco

Series	Amps	Wire Size	Rear Connec.	Tip Series	Cable Length (ft.)	Neck Tube Angle	Neck Tube Size	Neck Tube Type	Liner	Mfr. Model	Item No.
S-Gun™, O Series	250A	0.045 in.	Miller®	Quik Tip™	15	45°	Medium	Rotatable, Locking	Universal Conventional Liner	S2515TE5EM	**38VL72**
Lincoln Electric											
Magnum® PRO	250A	0.025" to 0.045"	Lincoln®	Copper Plus®	15	45°	Short	Fixed	Universal Conventional Liner	K4530-2	**49JR58**
Magnum 100L	100A	0.025 in. to 0.035 in.	—	—	10	60°	Medium	Rotatable	—	K530-6	**6JDU7**
Magnum Pro	350A	.035" to 1/8"	Lincoln®	Tweco®	15	45°	Medium	Fixed	Universal Conventional Liner	K2650-1	**54RY16**
	350A	.035" to 9/64"	Lincoln®	Tweco®	15	45°	Medium	Fixed	Universal Conventional Liner	K2649-1	**54RY15**
Miller Electric											
Hobart H100S2-10	100A	0.030 in. to 0.035 in.	Hobart®	M-Series	10	60°	Short	Rotatable	—	285033	**5XRX8**
Hobart H100S4-10	100A	0.030 in. to 0.035 in.	Hobart®	M-Series	10	60°	Short	Rotatable	—	284546	**5XRX9**
M-100	100A	0.030 in. to 0.035 in.	Miller®	M-Series	10	60°	Short	Rotatable	—	248282	**5CGA3**
MIGmatic M-150	150A	0.030 in. to 0.035 in.	Miller®	M-Series	12	60°	Short	Rotatable	—	249040	**5XRY0**
	150A	0.030 in. to 0.035 in.	Miller®	M-Series	15	60°	Short	Rotatable	—	249041	**5XRY1**
Miller® MDX™	250A	0.030" to 0.035"	Miller®	AccuLock™ MDX™	10	50°	—	Fixed	AccuLock™ MDX™	1770035	**494D60**
	250A	0.030" to 0.035"	Miller®	AccuLock™ MDX™	12	50°	—	Fixed	AccuLock™ MDX™	1770036	**494D61**
	250A	0.030" to 0.035"	Miller®	AccuLock™ MDX™	15	50°	—	Fixed	AccuLock™ MDX™	1770037	**494D62**
	250A	0.035" to 0.045"	Miller®	AccuLock™ MDX™	15	50°	—	Fixed	AccuLock™ MDX™	1770038	**494D63**
Tweco											
Professional No 4	400A	0.023 in., 0.030 in., 0.035 in., 0.045 in.	Miller®	14 Series / Tweco Threaded	15	60°	Medium	Fixed	Tweco 44-3545-15	10401136	**3DUK6**
Weldskill 250	250A	0.023 in., 0.030 in., 0.035 in., 0.045 in.	Miller®	14 Series / Tweco Threaded	15	60°	Medium	Fixed	Tweco 42-4045-15	10271032	**1UMJ4**

Type	Cable Length (ft.)	Wire Size	Amps AC	Rear Connec.	Mfr. Model	Item No.
Miller Electric Gooseneck Welding Guns						
XR™						
Push/Pull, Air Cooled	15	0.030 in to 0.063 in	200 A	XR Control	198127	**5GWL0**
	30	0.030 in to 0.063 in	200 A	XR Control	198128	**5GWL1**
Push/Pull, Water Cooled	15	0.030 in to 0.063 in	200 A	XR Control	198129	**5GWL2**
	30	0.030 in to 0.063 in	200 A	XR Control	198130	**5GWL3**

Type	Cable Length (ft.)	Wire Size	Amps AC	Rear Connec.	Mfr. Model	Item No.
XR™-A Aluma-Pro (Air-Cooled)						
Push/Pull, Air Cooled	15	0.030 in to 0.047 in	300 A	Miller(R)	300000	**5GVZ5**
	25	0.030 in to 0.047 in	300 A	Miller(R)	300001	**5GVZ6**
	35	0.030 in to 0.047 in	300 A	Miller(R)	300264	**5GVZ7**
Push/Pull, Water Cooled	15	0.030 in to 0.063 in	400 A	Miller(R)	300003	**5GWL7**
	25	0.030 in to 0.063 in	400 A	Miller(R)	300004	**5GWL8**
	35	0.030 in to 0.063 in	400 A	Miller(R)	300265	**5GWL9**

BERNARD™ Miller Tregaskiss THERMAL ARC



Small Copper Nozzle
No. 11Z553



Conduit Liner
No. 1Z771



Contact Tip
No. 5XRU4



Weld Control
No. 5GWL4

MIG & Spool Gun Consumables

Description	Wire Size (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Centerfire™					
Bernard BTB MIG Guns, 250 Amp S-Gun™ MIG Gun					
Insulator, Conversion	—	Bernard	4423R	**11Z530**	1
Insulator, Large	—	Bernard	10012	**11Z529**	1
Bernard BTB MIG Guns, 250 Amp S-Gun™ MIG Gun, W-Gun™ MIG Guns, FILTAIR Fume Extractions Guns, Clean Air™ Fume Extraction Guns					
Diffuser, Large	—	Bernard	D-1	**11Z534**	1
Diffuser, Small	—	Bernard	DS-1	**11Z535**	1
Nozzle, Large, Brass	5/8	Bernard	N-5818B	**11Z555**	1
Nozzle, Large, Copper	5/8	Bernard	N-5800C	**11Z552**	1
	5/8	Bernard	N-5818C	**11Z554**	1
	5/8	Bernard	N-5814C	**11Z556**	1
Nozzle, Small, Brass	1/2	Bernard	NS-1200B	**11Z550**	1
	1/2	Bernard	NS-1218B	**11Z551**	1
Nozzle, Small, Copper	5/8	Bernard	NS-5818C	**11Z553**	1
Nozzle, Small, Tapered, Brass	3/8	Bernard	NST-3818B	**12A757**	1
Bernard BTB MIG Guns, 250 Amp S-Gun™ MIG Gun, W-Gun™ MIG Guns, FILTAIR Fume Extractions Guns, Clean Air™ Fume Extraction Guns, Dura-Flux FCAW Guns					
Contact Tip	.035	Bernard	T-035	**11Z543**	1
	.045	Bernard	T-045	**11Z544**	1
	.052	Bernard	T-052	**11Z545**	1
	.062	Bernard	T-062	**11Z546**	1
	.030	Bernard	T-030	**12A754**	1
Tapered Contact Tip	.035	Bernard	TT-035	**12A755**	1
	.045	Bernard	TT-045	**12A756**	1
Bernard BTB MIG Guns, 250 S-Gun™ MIG Gun, TGX MIG Guns, T-Gun™ MIG Guns, FILTAIR Fume Extraction Guns, Clean Air™ Fume Extraction Guns					
Liner	.035-.045	Bernard	L3A-15	**11Z557**	1
	.045-.062	Bernard	L4A-15	**11Z558**	1
	.078	Bernard	L6A-15	**11Z559**	1
Binzel®, Lincoln® and Tweco® MIG Guns with Small Centerfire Consumables					
Insulator, Small	—	Bernard	4323R	**11Z528**	1
M-Series					
M-10, M-15, M-100, M-150 and M-25 Welding Gun					
Conduit Liner	.030-.035	Miller Electric	194011	**1Z771**	1
Welding Conduit Liner	.023/.025	Miller Electric	194010	**5XRX0**	1
	.035-.045	Miller Electric	194012	**5XRX1**	1
Welding Contact Tip	.023	Miller Electric	087299	**5XRV8**	10
	.030	Miller Electric	000067	**1Z385**	10
	.035	Miller Electric	000068	**1Z387**	10
	.045	Miller Electric	000069	**5XRV9**	10
M-10, M-15, M-100, M-150 Welding Guns					
Contact Tip Adapter for M-10/15	.023-.035	Miller Electric	169716	**4TY35**	2
M100 Consumable Kit	.03	Miller Electric	234608	**5CGA5**	1
M150 Consumable Kit	for .035	Miller Electric	234609	**5CGA6**	1
Nozzle, 1/2", Flush, for M-10/15	—	Miller Electric	169715	**4TY34**	2
Welding Nozzle, Flux Cored	—	Miller Electric	226190	**5XRZ5**	1
M-25 Welding Gun					
Contact Tip Adapter	.023-.047	Miller Electric	169728	**1Z765**	2
M-25 Consumable Kit	.03	Miller Electric	234610	**5CGA7**	1
	for .035	Miller Electric	234611	**5CGA8**	1

Description	Wire Size (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Nozzle, 1/2", Flush	—	Miller Electric	200258	**4TY36**	1
Nozzle, 5/8", Flush	—	Miller Electric	169726	**1Z759**	1
Welding Nozzle, 1/2", Recess	—	Miller Electric	169724	**5XRZ2**	1
Welding Nozzle, 5/8", Recess	—	Miller Electric	169725	**5XRZ3**	1
Welding Nozzle, 5/8", Stick-out	—	Miller Electric	169727	**5XRZ4**	1
Welding Nozzle Adapter	—	Miller Electric	169729	**5XRZ6**	2
QUICK LOAD™ Liner					
Tregaskiss Robotic CA3, TA3, G2, ThruArm G2, G1 Water-Cooled, Automatic MIG Guns, Bernard BTB MIG Guns, T-Gun™ Water-Cooled MIG Guns, Clean Air™ Fume Extraction Guns					
Liner, Front-Loading	.035-.045	Tregaskiss	415-35-15Q	**38VM43**	1
	.045-.062	Tregaskiss	415-116-15Q	**38VM44**	1
Roughneck					
ROUGHNECK Guns, XR/XR-M,XR-A/SPOOLMATIC 15/30A XR-EDGE,XR-ALUMA-PRO					
Screw-On Nozzle, Brass	—	Miller Electric	199613	**5XRY9**	1
Spoolmate					
Spoolmate 100,185,200 and 3035 Series					
Contact Tip, Wire Size 0.023, Pk. of 5	.023	Miller Electric	199730	**5XRU3**	5
Contact Tip, Wire Size 0.030, Pk. of 5	.030	Miller Electric	186419	**5XRU5**	5
Contact Tip, Wire Size 0.035, Pk. of 5	.035	Miller Electric	186406	**5XRU4**	5
Gas Diffuser Wire Size 0.035, Pk. of 2	.035	Miller Electric	186409	**5XRW8**	2
Nozzle, Copper	—	Miller Electric	186405	**5XRY8**	1
XR/XR-M, SPOOLMATIC 15/30A, XR-EDGE FASTIP					
Gas Diffuser for FasTip Contact Tip	—	Miller Electric	227749	**5XRW9**	1
XR/XR-M,XR-A/SPOOLMATIC 15/30A XR-EDGE FASTIP					
Nozzle Insulator	—	Miller Electric	232284	**5XRX6**	1
TOUGH LOCK™ Consumables					
Tregaskiss Robotic CA3, TA3, G2, ThruArm G2, G1 Water-Cooled, Automatic MIG Guns, Bernard BTB MIG Guns, 250 Amp S-Gun™ MIG Gun, TGX MIG Guns, T-Gun™ Water-Cooled MIG Guns, Clean Air™ Fume Extraction Guns					
Contact Tip, Heavy Duty	.035	Tregaskiss	403-20-35	**38VL91**	1
	.052	Tregaskiss	403-20-52	**38VL93**	1
	.045	Tregaskiss	403-20-45	**38VL94**	1
	.052	Tregaskiss	403-20-52-25	**38VM08**	1
	.062	Tregaskiss	403-20-116-25	**38VM09**	1
	.035	Tregaskiss	403-21-35-25	**38VM11**	1
	.045	Tregaskiss	403-21-45-25	**38VM12**	1
Contact Tip, Standard Duty	.045	Tregaskiss	403-14-45	**38VL98**	1
	.035	Tregaskiss	403-14-35	**38VM01**	1
Nozzle, 3/4" Bore Copper	—	Tregaskiss	401-6-75	**38VM29**	1
Nozzle, 5/8" Bore Brass	—	Tregaskiss	401-87-62	**38VM36**	1
Nozzle, 5/8" Bore Copper	—	Tregaskiss	401-6-62	**38VM28**	1
Weld Controls					
Bobcat Series, Miller Legend					
WC-115A Weld Control, 115 Amps AC	—	Miller Electric	137546011	**5GWL5**	1
CP, Deltaweld, Dimension, XMT, Series, Regency 250 And Shopmaster					
WC-24 Weld Control, 24 Amps AC	—	Miller Electric	137549	**5GWL4**	1
Fabricator 252i					
Hand Pendant	—	Thermal Arc	10-4014	**46Z455**	1

Sold in pkg. of 10.



Aluminum
No. 24D957



Carbon Steel
No. 6ETL6



No. 12C098

AWS Classification	Dia.	Container Size (Spool)	WESTWARD Item No.	HOBART Item No.	LINCOLN ELECTRIC Item No.
Aluminum					
ER4043					
ER4043	0.03 in	1 lb	—	—	**12C087**
	0.045 in	1 lb	—	—	**12C088**
ER5356					
ER5356	0.035 in	1 lb	—	—	**12C089**
	0.045 in	1 lb	—	—	**12C090**
Solid Wire					
ER4043	0.03 in	1 lb	**24D957**	**6ETN3**	—
	0.03 in	16 lb	**41R291**	—	—
	0.035 in	1 lb	**41R293**	—	—
	0.035 in	16 lb	**41R294**	—	—
	0.047 in	1 lb	**24D958**	**6ETN4**	—
	0.047 in	16 lb	**41R296**	—	—
ER430	0.035 in	1 lb	—	**54JK66**	—
ER5356	0.03 in	1 lb	**24D959**	**6ETN5**	—
	0.03 in	16 lb	**41R298**	—	—
	0.035 in	1 lb	**24D960**	**6ETN6**	—
	0.035 in	16 lb	**41R301**	—	—
	0.047 in	1 lb	**24D961**	**6ETN7**	—
	0.047 in	16 lb	**41R303**	—	—
Carbon Steel					
Flux Core Wire					
E71T-1/1M	0.045 in	11 lb	**41R309**	—	—
	0.045 in	33 lb	**41R310**	—	—
E71T-11	0.035 in	10 lb	**20YD82**	**6ETL8**	—
E71T-GS	0.03 in	2 lb	**48LY79**	**6ETL9**	—
	0.03 in	2 lb	**24D978**	—	—
	0.03 in	10 lb	**24D979**	**6ETN0**	—
	0.035 in	2 lb	—	**6ETN1**	—
	0.035 in	10 lb	**24D981**	**6ETN2**	—
Innershield NR-211-MP					
E71T-11	0.03 in	1 lb	—	—	**12C104**
	0.035 in	1 lb	—	—	**12C105**
	0.035 in	10 lb	—	—	**12C101**
Solid Wire					
ER70S-2	0.025 in	2 lb	**24D962**	**6ETK3**	—
	0.025 in	11 lb	—	**6ETK4**	—
	0.03 in	2 lb	—	**6ETK5**	—
	0.03 in	11 lb	—	**6ETK6**	—
	0.035 in	2 lb	**24D966**	**6ETK7**	—
	0.035 in	11 lb	—	**6ETK8**	—
ER70S-3	0.03 in	2 lb	—	**6ETK9**	—
	0.03 in	11 lb	—	**6ETL0**	—
	0.035 in	2 lb	—	**6ETL1**	—
	0.035 in	11 lb	—	**6ETL2**	—
ER70S-6	0.023 in	11 lb	**24D972**	—	—
	0.025 in	11 lb	—	**6ETL3**	—
	0.03 in	11 lb	**24D973**	**6ETL4**	—
	0.035 in	11 lb	**24D974**	**6ETL6**	—
	0.035 in	33 lb	**24D975**	**45LP57**	—
	0.045 in	44 lb	**24D976**	**6ETL7**	—
Super Arc L-50					
ER70S-3	0.03 in	33 lb	—	—	**12C094**
	0.035 in	33 lb	—	—	**12C095**
Super Arc L-56					
ER70S-6	0.025 in	2 lb	—	—	**12C097**
	0.025 in	12.5 lb	—	—	**12C096**
	0.03 in	2 lb	—	—	**12C098**
	0.03 in	12.5 lb	—	—	**12C092**
	0.035 in	2 lb	—	—	**12C099**
	0.035 in	12.5 lb	—	—	**12C093**
	0.035 in	33 lb	—	—	**12C102**
	0.045 in	44 lb	—	—	**12C103**

WESTWARD · HOBART FILLER METALS · LINCOLN ELECTRIC

MIG Welding Wire

Aluminum—Designed for aluminum surfaces. Best when used on clean or prepared surfaces. Use with argon shielding gas. DC reverse polarity.

Carbon Steel—Premium wire for general-purpose welding is designed for use on mild steel. Deposits require minimal slag removal. Use with CO_2 or argon-CO_2 shielding gas on clean or prepared surfaces. DC reverse polarity.

Stainless Steel—Use to weld stainless steel. Stainless steel wire requires shielding gas.

SuperGlaze 4043—Designed for welding 6XXX alloys and most heat-treatable casting alloys. All-position.

SuperGlaze 5356—General-purpose filler alloy for all-position welding of 5XXX series alloys.

Innershield NR-211-MP—Versatile all-position wire. Fast freezing characteristics accommodate poor fit-up.

Super Arc L-50—Copper-coated for long contact tip life. Supports short-circuiting, globular, axial spray, and pulsed spray transfer in all positions.

Super Arc L-56—Excellent toe-wetting for optimal bead appearance. Supports short-circuiting, globular, axial spray, and pulsed spray transfer in all positions. Copper coated for long contact tip life.

AWS Classification	Dia.	Container Size	Container Type	Tensile Strength	Brand	Item No.
Stainless Steel						
Solid Wire						
ER307Si	0.045"	33 lb.	Spool	85,000 psi	Westward	**23XM96**
ER308L	0.023"	2 lb.	Spool	88,000 psi	Westward	**41R255**
	0.023"	10 lb.	Spool	88,000 psi	Westward	**41R256**
	0.030"	2 lb.	Spool	88,000 psi	Westward	**41R258**
	0.030"	10 lb.	Spool	88,000 psi	Westward	**41R259**
	0.035"	2 lb.	Spool	88,000 psi	Westward	**41R261**
	0.035"	10 lb.	Spool	88,000 psi	Westward	**41R262**
	0.045"	2 lb.	Spool	88,000 psi	Westward	**41R264**
	0.045"	10 lb.	Spool	88,000 psi	Westward	**41R265**
ER312	0.035"	33 lb.	Spool	95,000 psi	Westward	**23XM78**
ER316L	0.023"	2 lb.	Spool	86,000 psi	Westward	**41R279**
	0.023"	10 lb.	Spool	86,000 psi	Westward	**41R280**
	0.030"	2 lb.	Spool	86,000 psi	Westward	**41R282**
	0.030"	10 lb.	Spool	86,000 psi	Westward	**41R283**
	0.035"	2 lb.	Spool	86,000 psi	Westward	**41R285**
	0.045"	2 lb.	Spool	86,000 psi	Westward	**41R288**
	0.045"	10 lb.	Spool	86,000 psi	Westward	**41R289**
ER347Si	0.035"	33 lb.	Spool	75,000 psi	Westward	**23XM82**
ER630	0.035"	30 lb.	Box	135,000 psi	Westward	**45EV12**



No. 447K22



No. 404J62



AC/DC
No. 5JPG3



CST 280
No. 5GWF4

Stick Welders

For general maintenance, repair, and light industrial applications.

es 95i—Lightweight, compact multiprocess Stick Welders are ideal for home, utility/farm, and maintenance work. Include electrode cable with holder, work cable with clamp, stick electrodes, power cord, and carrying case. No. 447K22 also includes TIG torch kit and argon flow gauge regulator.

Stickmate®—Portable Stick Welders are easy to carry and store, and they start up quickly and easily and provide a reliable arc thanks to Hot Start™ technology. Include electrode cable with heavy duty holder, work cable with clamp, and power cord. No. 404J62 has MVP™ adapters for 120V and 240V.

AC/DC 225/125—Features a front-mounted polarity switch and full-range amperage selector switch.

AC-225—A full range 40A to 225A selector switch helps ensure a uniform arc.

Idealarc® 250—Fan-cooled welder is great for production welding, with welding ranges up to 300A AC and 250A DC; features a full-range continuous current control dial with indicator. Can be used with just about every type of electrode, including low hydrogen, stainless steel, hard facing, aluminum, and bronze. Includes power factor capacitors.

Invertec® V155-S—Lightweight (15 lb.) portable stick welder operates in two separate modes—SOFT and CRISP—to provide the right arc characteristic for different types of electrodes. Can even be operated as a TIG welder in Touch Start TIG® mode. Includes stick electrode holder, work cable and clamp, shoulder strap, 120/230V input cord with 120V plug, and extra 120V plug.

CST 280—2-position manual switch for easy voltage changeover. Feature Lift-Arc™ start and Fan-On-Demand™ cooling system. For use with stick electrodes up to 3/16" and TIG welding of pipe and plate.

Maxstar®—Both models include 13-ft. stick electrode holder, 10-ft. work clamp with 25mm Dinse-style connector, and 120V and 240V power cords. No. 53AY42 also comes with a protective Miller X-Case™ and an adjustable handle/shoulder strap for safe, easy transport.

Thunderbolt—At only 15 lb., the lightweight Thunderbolt weighs nearly 100 lb. less than previous versions, for outstanding portability. Hot Start™ technology provides quick, reliable starting. Include electrode cable with holder, work cable with clamp, and power cord.

Trade Name	Polarity	Amps AC	Input Voltage	Duty Cycle	Item No.
Esab					
ESAB ES 95i DC Stick Package	DC	—	120VAC	60A @ 22.4V, 45%/ 15 to 90A @ 23.6 V, 20%	**447K21**
ESAB ES 95i DC TIG-Stick Package	DC	—	120VAC		**447K22**
Hobart					
Stickmate	DC	—	120/240V	30%	**404J62**
Lincoln Electric					
AC/DC 225/125	AC/DC	225	240	AC 225A @ 25V, 20% / DC 125A @ 25V, 20%	**5JPG3**
AC-225	—	225	240	225A @ 25V, 20%	**5JPG2**
Idealarc 250	—	250	208/240/480	AC: 250A/30V/30%, DC: 250A/30V/30%	**6FKG4**
Invertec® V155-S	DC	105A @ 14.2V	120VAC	100%	**5JPJ6**
Miller Electric					
CST 280	DC	280	220-230/460-575V	3-Ph: 280A 31.2V @35% 1-Ph: 200A 28V @50%	**5GWF1** *
	DC	280	220-230/460-575V		**5GWF2** †
	DC	280	208-230/400-460V		**5GWF4** †
	DC	280	208-230-/400-460V		**5GWF3** *
Maxstar 161	DC	—	120V/240V	160A @ 26.4V, 20% / 110A @ 24.4V, 100%	**53AY41**
	DC	—	120V/240V		**53AY42**
Thunderbolt	DC	—	240V	20%	**404J61**
	DC	—	120/240V	30%	**404J60**
XMT 450	—	—	230 to 460VAC	—	**49KA76**

**** Dinse-style connectors. † Tweco-style connectors.***

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
200A Electrode Holder, Ball Point Thru 2/0	Arc Welder	GA	—	**1UYE6**
250A Electrode Holder, Ball Point Thru 2/0	Arc Welder	GA	—	**1UYE7**
300A Electrode Holder, Ball Point Thru 2/0	Arc Welder	GA	—	**1UYE8**
400A Electrode Holder, 1/0	Arc Welder	GA	—	**19N782**
600A Electrode Holder, 2/0	Arc Welder	GA	—	**19N783**
Welding Cable Set with Electrodes	SRH, Gold Star Series	Miller Electric	173851	**6DLW9**
Welding Electrode Storage Container, 10 lb. Capacity, High Visibility Yellow	6JDW3 Holder with Belt Clip	Safetube	1205441	**5JC13**
Rod Storage Container, 10 lb. Capacity, Red	For Use With Aall 12" And 14" Electrodes	Lincoln Electric	KH550	**6JDW3**
Dialarc Series Welding Accessory Kit, Includes Welding Cables 50 ft, Electrode Holder, Ground Clamp, Lugs	Dialarc Series	Hobart	300836	**1EC88**
Stick Welding Accessory Kit, Includes 100 ft (30.5 m) No. 2/0 Electrode Cable With Eectrode Holder and 50 ft (15 m) No. 2/0 Work Cable with Work Clamp	Trailblazer Series	Miller Electric	043952	**6DLW8**
Wheel Kit, Axle, Two Wheels And Assembly Hardware	Lincoln AC 225, AC/DC 225/125	Lincoln Electric	K761	**6JDV5**
Running Gear Kit, Four 8" Poly/Rubber Blend Wheels with 30" Towing Handle	Dialarc 250 AC/DC	Miller Electric	041580	**1Z491**
Air-Cooled Tongs, Standard 6"L, Pkg. 1	—	Miller Electric	040197	**1Z400**
Air Cooled Tips, Standard, Pkg. 2	—	Miller Electric	040211	**2Z545**



No. 6ETG7


No. 23XL60

Welding Stick Electrodes

AWS Classification	Dia.	Container Size	Brand	Item No.
Aluminum				
E4043	3/32"	1 lb. Tube	Westward	41R207
	3/32"	5 lb. Tube	Westward	41R208
	1/8"	1 lb. Tube	Westward	41R206
	1/8"	5 lb. Box	Hobart	6ETK2
Aluminum Alloy				
308LFC-O	1/8"	5 Lbs Can	All-State	400G86
Carbon Steel				
E6010	3/32"	5 lb. Box	Hobart	6ETG9
	3/32"	5 lb. Box	Westward	24D917
	3/32"	5 lb. Package	Lincoln Electric	12C134
	1/8"	5 lb. Box	Hobart	6ETG7
	1/8"	5 lb. Box	Westward	24D919
	1/8"	5 lb. Package	Lincoln Electric	12C116
	1/8"	10 lb. Box	Hobart	6ETG8
	1/8"	10 lb. Box	Westward	24D918
	1/8"	50 lb. Can	Westward	20YC99
	1/8"	50 lb. Can	Lincoln Electric	49JR43
	1/8"	50 lb. Can	Lincoln Electric	49JR44
	1/8"	50 lb. Can	Hobart	54JK81
	5/32"	5 lb. Box	Hobart	6ETH0
	5/32"	5 lb. Box	Westward	24D920
	5/32"	50 lb. Can	Hobart	54JK82
E6011	3/32"	5 lb. Box	Hobart	6ETH3
	3/32"	5 lb. Box	Westward	24D922
	3/32"	5 lb. Package	Lincoln Electric	12C114
	3/32"	10 lb. Box	Hobart	6ETH4
	3/32"	10 lb. Box	Westward	24D921
	1/8"	5 lb. Box	Hobart	6ETH1
	1/8"	5 lb. Box	Westward	24D924
	1/8"	5 lb. Package	Lincoln Electric	12C113
	1/8"	10 lb. Box	Hobart	6ETH2
	1/8"	10 lb. Box	Westward	24D923
	1/8"	50 lb. Box	Westward	20YD07
	1/8"	50 lb. Can	Hobart	54JK77
	1/8"	50 lb. Can	Lincoln Electric	12C124
	5/32"	10 lb. Box	Hobart	6ETH5
	5/32"	10 lb. Box	Westward	24D925
	5/32"	50 lb. Can	Lincoln Electric	12C126
E6013	1/16"	1 lb. Box	Hobart	6ETJ9
	1/16"	1 lb. Box	Westward	24D926
	1/16"	1 lb. Tube	Lincoln Electric	12C128
	3/32"	5 lb. Box	Hobart	54JK84
	3/32"	5 lb. Box	Westward	24D928
	3/32"	5 lb. Package	Lincoln Electric	12C125
	3/32"	10 lb. Box	Hobart	6ETH8
	3/32"	10 lb. Box	Westward	24D927
	3/32"	50 lb. Can	Lincoln Electric	12C127
	1/8"	5 lb. Box	Westward	24D931
	1/8"	5 lb. Package	Lincoln Electric	12C120
	1/8"	10 lb. Box	Hobart	6ETH7
	1/8"	10 lb. Box	Westward	24D929
	1/8"	50 lb. Can	Hobart	54JK83
	1/8"	50 lb. Can	Lincoln Electric	12C129
	5/32"	5 lb. Box	Hobart	6ETK1

AWS Classification	Dia.	Container Size	Brand	Item No.
E7014	3/32"	5 lb. Box	Hobart	6ETJ0
	3/32"	5 lb. Box	Westward	24D933
	3/32"	5 lb. Package	Lincoln Electric	12C106
	3/32"	10 lb. Box	Hobart	6ETJ1
	1/8"	5 lb. Package	Lincoln Electric	12C111
	1/8"	10 lb. Box	Hobart	6ETH9
	5/32"	5 lb. Box	Hobart	6ETJ2
	5/32"	5 lb. Box	Westward	24D935
	5/32"	50 lb. Can	Lincoln Electric	12C108
E7018	3/32"	5 lb. Tube	Westward	20YD45
	3/32"	10 lb. Box	Hobart	6ETJ6
	3/32"	10 lb. Box	Westward	24D936
	3/32"	10 lb. Can	Lincoln Electric	12C112
	3/32"	50 lb. Box	Hobart	6ETJ5
	3/32"	50 lb. Box	Westward	24D937
	3/32"	50 lb. Can	Lincoln Electric	12C110
	1/8"	5 lb. Tube	Westward	20YD42
	1/8"	10 lb. Box	Hobart	6ETJ3
	1/8"	10 lb. Box	Westward	24D938
	1/8"	10 lb. Can	Lincoln Electric	12C115
	1/8"	50 lb. Box	Hobart	6ETJ4
	1/8"	50 lb. Box	Westward	24D939
	1/8"	50 lb. Can	Lincoln Electric	12C109
	5/32"	5 lb. Box	Hobart	6ETJ7
	5/32"	5 lb. Box	Westward	24D941
	5/32"	10 lb. Box	Hobart	6ETJ8
	5/32"	10 lb. Box	Westward	24D940
	5/32"	10 lb. Can	Lincoln Electric	12C117
E7018AC	3/32"	50 lb. Can	Hobart	54JK79
	1/8"	50 lb. Can	Hobart	54JK78
	5/32"	50 lb. Can	Hobart	54JK80
	5/32"	50 lb. Can	Lincoln Electric	12C119
Cast Iron				
ESt	3/32"	1 lb. Tube	Westward	41R172
	3/32"	5 lb. Tube	Westward	41R173
	1/8"	1 lb. Tube	Westward	41R170
	1/8"	5 lb. Tube	Westward	41R171
Cast Iron Alloys				
ENiFe-CI	3/32"	1 Lbs Plastic Tube	All-State	400G72
	3/32"	5 Lbs Plastic Tube	All-State	400G73
Cast Steel				
ENiCu-B	3/32"	5 lb. Box	Westward	23XM17
	1/8"	5 lb. Box	Westward	23XM18
Copper				
308LFC-O	3/32"	5 Lbs Plastic Tube	All-State	400G78
	1/8"	5 Lbs Plastic Tube	All-State	400G79
	1/8"	50 Lbs Carton	All-State	400G80
Duplex Stainless Steel				
E2209-16	1/8"	5 lb. Box	Westward	23XM14
	3/16"	5 lb. Box	Westward	23XM16
Hardfacing				
Wearcote	3/32"	1 lb. Tube	Westward	41R223
	3/32"	5 lb. Tube	Westward	41R224
	1/8"	1 lb. Tube	Westward	41R221
	1/8"	5 lb. Tube	Westward	41R222
Metal Removal - Studs/Bolts				
308LFC-O	3/32"	1 Lbs Plastic Tube	All-State	400G93
	3/32"	5 Lbs Plastic Tube	All-State	400G95
	1/8"	1 Lbs Plastic Tube	All-State	400G94
	1/8"	5 Lbs Plastic Tube	All-State	400G96

AWS Classification	Dia.	Container Size	Brand	Item No.
Mild Steel				
E7014	3/32"	10 lb. Box	Westward	24D932
	3/32"	50 Lbs Plastic Tube	Sureweld	400G44
	1/8"	5 Lbs Plastic Tube	Sureweld	400G45
	1/8"	50 Lbs Carton	Sureweld	400G46
	5/32"	50 Lbs Plastic Tube	Sureweld	400G47
E7018	3/32"	5 Lbs Plastic Tube	Sureweld	400G48
	1/8"	5 Lbs Plastic Tube	Sureweld	400G49
	5/32"	5 Lbs Plastic Tube	Sureweld	400G50
ENiFe-CI	1/8"	1 Lbs Plastic Tube	All-State	400G76
	1/8"	5 Lbs Plastic Tube	All-State	400G77
Nickel 55				
ENiFe-CI	3/32"	1 lb. Tube	Westward	41R176
	1/8"	1 lb. Tube	Westward	41R174
Nickel 99				
ENi-CI	3/32"	5 lb. Box	Westward	24D942
	1/8"	1 lb. Tube	Westward	41R180
	1/8"	5 lb. Tube	Westward	41R181
Nickel Alloy A				
ENiCrFe-2	3/32"	5 lb. Box	Westward	23XM25
Specialty Electrodes				
S3000	3/32"	1 lb. Tube	Westward	41R219
	3/32"	5 lb. Tube	Westward	41R220
	1/8"	1 lb. Tube	Westward	41R217
	1/8"	5 lb. Tube	Westward	41R218
Stainless Steel				
E308/308L-16	3/32"	10 lb. Box	Hobart	54JK85
E308L-16	3/32"	1 lb. Box	Westward	24D946
	3/32"	5 lb. Tube	Westward	41R190
	1/8"	1 lb. Tube	Westward	41R188
	1/8"	5 lb. Tube	Westward	41R189
	5/32"	10 lb. Box	Westward	24D947
E309Cb-16	3/32"	5 lb. Box	Westward	23XM01
	5/32"	5 lb. Box	Westward	23XM03
	3/16"	5 lb. Box	Westward	23XM04
E309L	3/32"	10 lb. Box	Hobart	54JK86
E309L-16	3/32"	1 lb. Tube	Westward	41R195
	3/32"	10 lb. Box	Westward	24D949
	1/8"	1 lb. Tube	Westward	41R193
	1/8"	10 lb. Box	Westward	24D948
E309Mo-16	3/32"	5 lb. Box	Westward	23XL96
	5/32"	5 lb. Box	Westward	23XL98
	3/16"	5 lb. Box	Westward	23XL99
E316L	3/32"	10 lb. Box	Hobart	54JK87
E316L-16	3/32"	1 lb. Tube	Westward	41R202
	3/32"	10 lb. Box	Westward	24D950
	1/8"	1 lb. Tube	Westward	41R199
	1/8"	10 lb. Box	Westward	24D951
E318-16	1/8"	5 lb. Box	Westward	23XL89
E330-16	3/32"	5 lb. Tube	Westward	23XL60
	1/8"	5 lb. Tube	Westward	23XL61
E347-16	3/32"	5 lb. Tube	Westward	23XL72
E385-16	3/32"	5 lb. Box	Westward	23XM09
	5/32"	5 lb. Box	Westward	23XM11
E410-16	3/16"	5 lb. Tube	Westward	23XL71
E410NiMo-16	3/32"	5 lb. Box	Westward	23XM05
E630-16	3/32"	5 lb. Tube	Westward	23XL64
	1/8"	5 lb. Tube	Westward	23XL65
	3/16"	5 lb. Tube	Westward	23XL67

Electrode Ovens

Portable—Heating elements provide uniform, continuous heat for electrode protection. Feature adjustable thermostat (except No. 3KB70), indicator light and removable power cord with locking inlet. Durable powder-coated finish. No. 6YE39 has carrying handles on each side. No. 3KB73 comes with pull handles and wheels for easy portability.

Bench/Floor—Circular shape promotes even heat distribution. Feature adjustable thermostatic control and indicator light.

Cap. (lb.)	Voltage	Temp. Range	Heating Elements	Chamber Dia. (in.)	Chamber Depth (in.)	Item No.
Portable Electrode Ovens						
10	100-240 VAC/DC	300°F	60W Dual Volt	3.000	20	3KB70
20	100-240 VAC/DC	100 to 300°F	70W Dual Volt	4.000	20	3KB72
50	120/240VAC	100 to 300°F	300W Wire Wrap	8.000	20	6YE39
	120/240VAC	100 to 300°F	300W Wire Wrap	8.000	20	3KB73
Bench/Floor Electrode Ovens						
150	120/240VAC	100 to 300°F	600W Wire Wrap	14.000	19¾	6YE40
400	120-240 VAC	100 to 550°F	1000W Tubular	18.000	19	5HJ70


Bench/Floor
No. 6YE40



EZ-TIG 165i
No. 44YW20



Diversion™ 180
No. 6DLX2



Dynasty 280 DX
No. 35MC53



Precision TIG® 275
No. 5JPJ2

TIG/Stick Welders

These complete packages include just about everything you need to get started with TIG welding.

Light Industrial welders offer low weld penetration for applications such as pipe fabrication, aerospace, and shipbuilding.

Medium Industrial welders have medium penetration for automotive maintenance, aluminum ship repair, and precision fabrication.

Heavy Industrial welders produce deep weld penetration for optimal strength in applications such as onsite pipe welding, infrastructure, or heavy equipment manufacturing.

Note: Complete list of individual kit contents is available at Grainger.com®.

ESAB® ET Series—Inverter-based units deliver higher output and duty cycle. Include TIG torch and accessories, electrode holder and leads, and electrodes.

EZ-TIG 165i—Inverter-based with HF start and simple interface controls. Includes ceramic gas cup, work cable with clamp, remote foot control, regulator with hose, and power cord.

Maxstar® Series—Has thermal overload protection with indicator light, built-in gas solenoid, and full-function remote control. Include cords and connectors.

Invertec® V155-S—Features two stick modes to provide the right arc characteristics for different types of electrodes. Includes TIG torch with Ultra Flex™ cable and Twist Mate™ adapter, stick electrode holder and 10-ft. cable, work clamp and 10-ft. cable, input cord and plug, and gas regulator.

Syncrowave® Series—This complete package offers outstanding power and performance for light and industrial applications. Include power source, cords and plugs, electrode holder, regulator, flow gauge, and hose.

Diversion™ 180—Inverter-based AC/DC power source with easy-to-use operator interface. Includes 12.5' torch with backcap, ceramic gas cup, 3/32" collet and collet body, remote foot control, 12' work lead with clamp, and regulator/flow gauge with hose.

Precision TIG® Series—Micro-Start II Technology provides high-quality welds with stable low amperage starting, welding, and cratering for AC and DC welding. Include work cable and clamp.

Renegade™—Take this small, lightweight system with you to just about any jobsite. Not only is it highly portable, but also rugged enough to handle extreme conditions, and has the power to tackle tough jobs in aerospace, civil construction, and other demanding industries. Includes power supply, 10-ft. input cable, and two OKC 50 connectors.

Dynasty® Series—Offers Lift-Arc™, Blue Lighting™, Auto-Line Power Management Technology, Fan-On-Demand™, and superior stick performance. AC/DC output. Include cords and connectors.

Series	Welding Processes	Material Thickness Mild Steel	Material Thickness Aluminum	Input Voltage	Rated Output	Duty Cycle	Phase	Weight	Brand	Item No.
Light Industrial										
ESAB ET 141i AC/DC HF TIG/Stick System	Stick, TIG	0.030" to 3/16"	Thin Gauge to 3/16"	115	140 A/15.6 V @ 20%	60%	1	48.4 lb.	Esab	36WJ52
ESAB ET 201i DC Stick/TIG System		0.002" to 1/4"	Thin Gauge to 1/4"	120V or 208/230V	200 A/28 V @ 20% Duty Cycle, 230 V	60%	1	21.6 lb.	Esab	6TNK4
EZ-TIG 165i		0.029" to 1/4"	0.029" to 3/16"	230	150A @ 16V	20%	1	50 lb.	Hobart	44YW20
Maxstar 161 STH		0.020" to 3/16"	Thin Gauge to 3/16"	120/240	130A @ 15.2V	60%	1	—	Miller Electric	53AY46
Maxstar 161 STL			Thin Gauge to 3/16"	120/240	130A @ 15.2V	60%	1	—	Miller Electric	53AY47
			Thin Gauge to 3/16"	120/240	130A @ 15.2V	60%	1	—	Miller Electric	53AY43
			Thin Gauge to 3/16"	120/240	130A @ 15.2V	60%	1	—	Miller Electric	53AY44
			Thin Gauge to 3/16"	120/240	130A @ 15.2V	60%	1	—	Miller Electric	53AY45
Invertec® V155-S		0.004" to 3/8"	0.012" to 3/8"	120/230	155A @ 16V, 30%	100%	1	15 lb.	Lincoln Electric	49JR57
Syncrowave 250 DX	Stick, TIG, Pulse TIG, Air Carbon Arc	0.012" to 1/2"	0.015" to 3/8"	220 to 575	250A @ 30V/250 @ 28V	60%	1	—	Miller Electric	49WM51
Diversion 180	TIG	0.030" to 3/16"	0.025" to 3/16"	120/240	60A @ 12.4V/150A @ 16V	35%	1	50 lb.	Miller Electric	6DLX2
Medium Industrial										
Maxstar 210	Stick, TIG	0.025" to 1/4"	0.012" to 3/8"	120 to 480	210A @ 18V	60%	1 or 3	38 lb.	Miller Electric	45JU17
Precision TIG 225 Ready-Pak		—	—	208/230	90A @ 23.4V	100%	1	212 lb.	Lincoln Electric	5JPJ1
Renegade			—	208/230	90A @ 23.4V	100%	1	258 lb.	Lincoln Electric	5JPJ7
Square Wave		0.004" to 3/8"	0.012" to 3/8"	208 to 460	300A @ 32V, 60%	40%	1 or 3	—	Esab	54RZ63
Dynasty 210	Stick, TIG, Pulsed TIG	0.004" to 1/4"	0.012" to 3/8"	120/230	10A @ 125V	60%	1	—	Lincoln Electric	54RY17
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU20
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU21
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU22
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU23
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU11
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU13
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU14
			0.012" to 1/4"	120 to 480	210A @ 18V	60%	1 or 3	47 lb.	Miller Electric	45JU15
Dynasty 280		0.004" to 3/8"	0.012" to 3/8"	208 to 575	235A @ 19V	60%	1 or 3	25 lb.	Miller Electric	35MC56
Dynasty 280 Complete Package with CPS			0.012" to 3/8"	208 to 575	235A @ 19V	60%	1 or 3	25 lb.	Miller Electric	35MC52
Dynasty 280 DX Complete Package with CPS			0.012" to 3/8"	208 to 575	235A @ 19V	60%	1 or 3	25 lb.	Miller Electric	35MC53
Dynasty 280 TIGRunner with CPS			0.012" to 3/8"	208 to 575	235A @ 19V	60%	1 or 3	25 lb.	Miller Electric	35MC54
Maxstar 210			0.012" to 3/8"	208 to 575	235A @ 19V	60%	1 or 3	25 lb.	Miller Electric	35MC63
Maxstar 280		0.004" to 1/4"	0.012" to 3/8"	120 to 480	210A @ 18V	60%	1 or 3	38 lb.	Miller Electric	45JU19
		0.004" to 3/8"	0.012" to 3/8"	120 to 480	210A @ 18V	60%	1 or 3	38 lb.	Miller Electric	45JU18
Heavy Industrial			—	208 to 575	235A @ 19V	60%	1 or 3	47 lb.	Miller Electric	35MC59
Precision TIG 275	Stick, TIG	—	—	208/230/460	275A @ 31V	40%	1	397 lb.	Lincoln Electric	5JPJ5
Precision TIG 275 Ready-Pak			—	208/230/460	275A @ 31V	40%	1	641 lb.	Lincoln Electric	5JPJ2
Precision TIG 375 Ready-Pak			—	208/230/460	375A @ 35V	40%	1	751 lb.	Lincoln Electric	5JPJ3
Dynasty®	Stick, TIG, Pulsed TIG	0.012" to 5/8"	0.015" to 5/8"	208 to 575	300A @ 32V, 60%	80%	1 or 3	—	Miller Electric	53RJ18
			0.015" to 5/8"	208 to 575	300A @ 32V, 60%	80%	1 or 3	—	Miller Electric	53RJ19
			0.020" to 1"	0.020" to 1"	208 to 575	600A @ 44V, 60%	100%	1 or 3	—	Miller Electric	53RJ20
Maxstar®			0.012" to 5/8"	—	208 to 575	300A @ 32V, 60%	80%	1 or 3	—	Miller Electric	53RJ12
			0.020" to 1"	—	208 to 575	600A @ 44V, 60%	100%	1 or 3	—	Miller Electric	53RJ14
			0.012" to 5/8"	—	208 to 575	300A @ 32V, 60%	80%	1 or 3	—	Miller Electric	53RJ17
				—	208 to 575	300A @ 32V, 60%	80%	1 or 3	—	Miller Electric	53RJ22
Syncrowave 250 DX Complete Package		0.012" to 1/2"	0.015" to 3/8"	230/460/575	200A @ 28V/250A @ 30V	40%	1	378 lb.	Miller Electric	2RVC8
Syncrowave 250 DX TIGRunner			0.015" to 3/8"	200/230/460	200A @ 28V/250A @ 30V	40%	1	378 lb.	Miller Electric	5GWF7
Syncrowave 350 LX Complete Package		0.012" to 5/8"	0.015" to 1/2"	200/230/460	300A @ 32V/350A @ 34V	40%	1	496 lb.	Miller Electric	5GWG0
			0.015" to 1/2"	230/460/575	300A @ 32V/350A @ 34V	40%	1	496 lb.	Miller Electric	5GWG1
Dynasty 280	Stick, TIG, Pulse TIG, Air Carbon Arc	0.004" to 3/8"	0.012" to 3/8"	208 to 575	200A @ 28 V	60%	1 or 3	—	Miller Electric	443V83
Syncrowave 250 DX Complete Package	Stick, TIG, Pulsed TIG	0.012" to 1/2"	0.015" to 3/8"	200/230/460	200A @ 28V/250A @ 30V	40%	1	378 lb.	Miller Electric	2CAV6

TIG Welding Rods

- 36" L

Rods feature smooth and stable arc; low spatter; and thin, uniform coating.

AWS Classification	Dia.	Container Size	Tensile Strength	Item No.
Aluminum, Westward				
ER4043	1/16"	1 lb. Tube	29,000 psi	**41R363**
	1/16"	10 lb. Box	29,000 psi	**41R364**
	3/32"	1 lb. Tube	29,000 psi	**41R365**
	3/32"	10 lb. Box	29,000 psi	**41R366**
	1/8"	1 lb. Tube	29,000 psi	**41R367**
	1/8"	10 lb. Box	29,000 psi	**41R368**
ER5356	1/16"	1 lb. Tube	38,000 psi	**41R369**
	1/16"	10 lb. Box	38,000 psi	**41R370**
	3/32"	1 lb. Tube	38,000 psi	**41R371**
	3/32"	10 lb. Box	38,000 psi	**41R372**
	1/8"	1 lb. Tube	38,000 psi	**41R373**
	1/8"	10 lb. Box	38,000 psi	**41R374**
Carbon Steel, Westward				
ER70S-2	1/16"	1 lb. Tube	79,000 psi	**41R375**
	1/16"	10 lb. Box	70,000 psi	**23XM45**
	3/32"	1 lb. Tube	79,000 psi	**41R377**
	3/32"	10 lb. Box	70,000 psi	**23XM46**
	1/8"	1 lb. Tube	79,000 psi	**41R379**
	1/8"	10 lb. Box	79,000 psi	**41R380**
	1/8"	10 lb. Box	70,000 psi	**23XM48**
ER70S-6	1/16"	10 lb. Box	70,000 psi	**23XM37**
	3/32"	10 lb. Box	70,000 psi	**23XM38**
	1/8"	10 lb. Box	70,000 psi	**23XM39**
	5/32"	10 lb. Box	70,000 psi	**23XM40**
Mild Steel, Hobart				
ER80S-D2	1/16"	1 lb. Box	80,000 psi	**6ETN8**
	3/32"	1 lb. Box	80,000 psi	**6ETN9**
Mild Steel, Sureweld				
E6010	1/8"	50 Lbs Plastic Tube	60,000	**400G30**
E6011	3/32"	50 Lbs Plastic Tube	60,000	**400G34**
Mild Steel, Westward				
ER80S-D2	1/16"	1 lb. Tube	80,000 PSI	**24D952**
	3/32''	1 lb. Tube	80,000 PSI	**24D953**
Stainless Steel, Westward				
ER308L	1/16"	1 lb. Tube	83,000 psi	**41R344**
	1/16"	10 lb. Tube	83,000 psi	**24D954**
	3/32"	1 lb. Tube	83,000 psi	**41R345**
	3/32''	10 lb. Tube	88,000 psi	**24D955**
	1/8"	1 lb. Tube	83,000 psi	**41R346**
	1/8"	10 lb. Tube	83,000 psi	**24D956**
ER309L	1/16"	10 lb. Box	85,000 psi	**23XM57**
	3/32"	10 lb. Box	85,000 psi	**23XM58**
	1/8"	10 lb. Box	85,000 psi	**23XM59**
	5/32"	10 lb. Box	75000 psi	**23XM60**
ER310	1/16"	10 lb. Box	80,000 psi	**23XM61**
	1/8"	10 lb. Box	80,000 psi	**23XM63**
ER316L	1/16"	1 lb. Tube	83,000 psi	**41R357**
	1/16"	10 lb. Box	83,000 psi	**41R358**
	3/32"	1 lb. Tube	83,000 psi	**41R359**
	3/32"	10 lb. Box	83,000 psi	**41R360**
	1/8"	1 lb. Tube	83,000 psi	**41R361**
	1/8"	10 lb. Box	83,000 psi	**41R362**
ER347SI	1/16"	10 lb. Box	75,000 psi	**23XM65**
	3/32"	10 lb. Box	75,000 psi	**23XM66**
	1/8"	10 lb. Box	75,000 psi	**23XM67**
	5/32"	10 lb. Box	75,000 psi	**23XM68**
ER430	3/32"	10 lb. Box	65,000 psi	**23XM70**
	5/32"	10 lb. Box	65,000 psi	**23XM72**



No. 24D952



DGP DIAMOND GROUND PRODUCTS

Tungsten Electrode Grinders

User-friendly portable grinder provides a quick, safe, economical solution for diamond grinding, flatting, and notch-cutting your tungsten electrodes, with an enclosed grinding area that captures nearly all the excess tungsten electrode dust for safe and easy disposal. Handles tungsten diameters from 0.040" to 3/16" (1.0mm to 4.8mm).

Includes	Mfr. Model	Item No.
6" dia. Single-Sided Diamond Grinding Wheel	DGP-PG3-A	**54PD31**



Coolmate 3
No. 1Z542

Water Cooled Torch Kit
No. 5GWJ4





Foot Pedal
No. 5GWJ7

Miller ESAB

TIG/Stick Welding Accessories

Water Cooled Torch Kits—Use No. 5GWJ4 for general purpose applications; use No. 5GWJ6 for high amperage and continuous-duty applications. Both include 25-ft. torch and accessories, nozzle, cable cover, tungsten, smith regulator, gas hose, dinse adapters, and 15-ft. lead with work clamp.

Coolant Systems—Provide continuous coolant flow at a constant pressure; thermally protected motors guard against overheating. No. 1Z542 rotary vane pump has an On/Off switch and paddle wheel coolant flow indicator. With fin and tube heat exchanger. 3-gal cap. 115VAC, 50/60 Hz. No. 4UV46 coolant contains ethylene glycol and deionized water that helps protect against freezing or boiling.

Description	For Use With	Brand	Mfr. Model	Item No.
Water-Cooled TIG Torch Kits				
250 Output Range (Amps)	—	Miller Electric	300185	**5GWJ4**
400 Output Range (Amps)			300186	**5GWJ6**
Coolant Systems				
Coolmate 3, Water Coolant System-Coolmate 3	Water Cooled Torches Up to 600 Amperes	Miller Electric	043007	**1Z542**
Coolant, 1 gal.			043810	**4UV46**
Controls				
Foot Pedal	Welding Power Source	Esab	W4014450	**54RZ61**
Foot Pedal	All PipeWorx Welding Systems Solid State Power Sources After Serial No JK674521	Miller Electric	194744	**5GWJ7**
Finger Tip Control			043688	**5GWJ8**
Remote Finger Control	—		151086	**1Z729**

Miller WESTWARD

Tungsten Electrodes

- 7" length
- Pkg. of 10



Dia. (in.)	Mfr. Model	Item No.
2% Ceriated (Grey), Miller		
0.040	WC040X7	**6LGU5**
1/16	WC116X7	**6LGU6**
3/32	WC332X7	**6ETP7**
1/8	WC018X7	**6ETP8**
5/32	WC532X7	**6ETP9**
2% Lanthanated (Dark Blue), Miller		
.040	WL2040X7	**22UM19**
1/16	WL2116X7	**22UM20**
3/32	WL2332X7	**22UM21**
1/8	WL2018X7	**22UM22**
5/32	WL2532X7	**22UM23**
2% Thoriated (Red), Westward		
3/64	49H751	**49H751**
1/16	49H752	**49H752**
3/32	49H754	**49H754**
1/8	49H753	**49H753**
5/32	49H755	**49H755**

Dia. (in.)	Mfr. Model	Item No.
Pure (Green), Miller		
1/16	WP116X7	**6LGU1**
3/32	WP332X7	**6LGU2**
1/8	WP018X7	**6LGU3**
Rare Earth (Light Blue), Miller		
1/16	WG116X7	**6ETR6**
3/32	WG332X7	**6ETR7**
1/8	WG018X7	**6ETR8**

TIG Torches

ESAB | LINCOLN ELECTRIC | Miller

TIG Air-Cooled Torch Kit No. 11A114





TIG Water-Cooled Torch Kit No. 11A122

Series	Output Range (A)	Includes	Application (Electrode Range)	Mfr. Model	Item No.
TIG Air-Cooled Torch Kits, 60% Duty Cycle					
Esab					
ESAB TXH	200	TIG Torch, Collets, Collet Bodies, Long and Short Back Caps, Tungsten, Nozzles	All TIG Welding Process Applications	0558102493	**54RZ60**
Lincoln Electric					
PTA-17FV	150	12.5 ft. Cable	Air-Cooled	K1782-13	**49JR55**
Miller Electric					
A-125FV	125 DC, 100 AC	Flexible Torch Body w/ Gas Valve, Handle, 25 ft Rubber Hose, Collet, Collet Body, Back Cap, Nozzle and Tungsten	0.020"–3/32" TIG/GTAW	WP9FV25RM	**6UGJ4**
	115	25 ft. Power Cable, Lead	Air-Cooled	WP1725RDI25	**49WM36**
A-150		Torch Body, Handle, 25 Ft. Rubber Power Cable and Long Back Cap	0.020"–⅛" TIG/GTAW	WP-17-25-R	**11A115**
		Torch Body, Handle, 12 ½ Ft. Rubber Power Cable and Long Back Cap	0.020"–⅛" TIG/GTAW	WP-17-12-R	**11A114**
A-150F	150 DC, 115 AC	Torch Body, Handle, 25 Ft. Rubber Power Cable	0.020"–⅛" TIG/GTAW	WP-17F-25-R	**11A116**
A-150FV		25 ft Rubber Hose, Cable Cover, Collet, Collet Body And Back Cap	0.020"– ⅛", TIG/GTAW	WP17FV25RM	**6UGJ2**
		Torch Body, Handle, 25 Ft. Rubber Power Cable, 2 Pc	0.020"–⅛" TIG/GTAW	WP-17FV-25-2	**11A118**
A-150V		Torch Body W/ Gas Valve, Handle, 25 ft Rubber Hose, Collet, Collet Body, Back Cap, Nozzle and Tungsten	0.020"–3/32" TIG/GTAW	WP17V25RM	**6UGJ3**
A-200FV	200 DC, 150 AC	Torch Body, Handle, 25 Ft. Rubber Power Cable	0.020"–5/32" TIG/GTAW	WP-26FV-25-R	**11A125**
A-200V		Torch Body, Handle, 25 Ft. Rubber Power Cable, 2 Pc	0.020"–5/32" TIG/GTAW	WP-26V-25-2	**11A128**
W-375	375	W 375 Torch Body, 25 ft. Power Cable, Braided Rubber, Gas Hose, Water Hose, Long Back Cap, 50mm Dinse Style Adapter, Cable Cover	Water-Cooled	301253001	**49WM40**
TIG Water-Cooled Torch Kits, 100% Duty Cycle					
Lincoln Electric					
PTW-20	250	25 ft. Cable	Water-Cooled	K1784-4	**49JR56**
Miller Electric					
W-225MOD	225/200/160 DC, 160/140/115 AC	Torch Body, Handle, 25 Ft. Power Cable, Braided, 9-70 Head & 1726 Head	0.020"-⅛" TIG/GTAW	WP-225-25-R	**11A123**
W-250	250DC, 180 AC	Torch Body, Handle, 25 ft Rubber Hose, Collet, Collet Body, Back Cap, Nozzle and Tungsten	0.020"–⅛" TIG/GTAW	WP2025RM	**6UGJ5**
W-350	350 DC, 245 AC	Torch Body, Handle, 25 Ft Power Cable, Braided and Long Back Cap	0.020"–5/32" TIG/GTAW	WP-18-25-R	**11A122**

Output Range (A)	Series	Brand	Mfr. Model	Item No.
Air-Cooled Torch Body (60% Duty Cycle)				
150 DC, 115 AC	A-150FV	Miller Electric	WP-17FV	**6XXN4**
	A-150F	Miller Electric	WP-17F	**6XXN3**
	A-150V	Miller Electric	WP-17V	**6XXN5**
	A-150	Miller Electric	WP-17	**6XXN2**
Water-Cooled Torch Body (100% Duty Cycle)				
250 DC, 175 AC	W-250	Miller Electric	WP-20	**6XXN8**

Description	For Use With	Brand	Mfr. Model	Item No.
Back Caps				
Long, Pkg. 2	A-150 Series, A-200 Series, W-350 Series, W-400, W-410	Miller Electric	57Y02	**6UHF8**
Short, Pkg. 2		Miller Electric	57Y04	**6UHG5**
Medium, Pkg. 2	A-125 Series, W-250 Series	Miller Electric	41V35	**6UGW3**
Short, Pkg. 2		Miller Electric	41V33	**6UGW2**
Long, Pkg. 2		Miller Electric	41V24	**6UGV4**
Cable Covers				
3' Cover for 22 Ft Long, Woven Nylon		Miller Electric	WC-3-22	**6XXL9**
4' Cover for 22 Ft Long, Woven Nylon		Miller Electric	WC-4-22	**6XXN1**

Miller

TIG Consumables



TIG Starter Kit No. 6XXJ7



TIG Accessory Kit No. 6UHJ3

For Use With	Includes	Mfr. Model	Item No.
TIG Starter Kits			
A-125, W-200, W-250, W-280, W-375	14 Collets: (2) .040, (4) 1/16", (4) 3/32", (2) 1/8"; 8 Collet Bodies: (1) .040", (2) 1/16", (2) 3/32", (2) 1/8"; 4 Gas Lenses: (1) .040", (1) 1/16", (1) 3/32", (1) 1/8"; 4 Back Caps: (1) short, (2) medium, (1) long; 1 Cup Gasket; 4 Back Cap O-Rings; 10 Wire Clamps; 1 Parts Box*	MAK-1S	**6XXJ7**
A-150, A-200, W-350, W-410	11 Collets: (1) .020", (1) .040, (3) 1/16", (3) 3/32", (2) 1/8", (1) 5/32"; 9 Collet Bodies: (1) .020", (1) .040", (2) 1/16", (2) 3/32", (2) 1/8", (1) 5/32"; 5 Gas Lenses: (1) .040", (1) 1/16", (1) 3/32", (1) 1/8", (1) 5/32"; 2 Back Caps: (1) short, (1) long; 2 Cup Gaskets; 1 Gas Lens Insulator; 4 Back Cap O-Rings; 1 Parts Box*	MAK-2S	**6XXJ8**
TIG Accessory Kits			
A-125, A-150	150TB Torch Body, 150VTB Torch Body, 150CE Element Coil, 150SE Element Solid, 105Z55R Handle, Ceriated Tungsten Electrodes (.040, 1/16", 3/32"), 53N20 Wrench, Collet and Collet Body (.040", 1/16", 3/32"), Lava Nozzles (#5, #6), Alumina Nozzles (#4, #5, #6), Back Caps (Short, Medium, Long), (1) 24 (60° 80 Amp Torch Head), (1) 24-90 (90° 80 Amp Torch Head), (1) 9-70 (70° 125 Amp Torch Head), (1) 9-90 (90° 125 Amp Torch Head), (1) 9P (180° 125 Amp Torch Head), (1) 1726 (70° 150 Amp Torch Head), (1) 1726P (180° 150 Amp Torch Head)*	AK-150MFC	**6UHJ3**
A-125, W-200, W-250, W-280, W-375	1 Long lack Cap, 3 Collets (1/16, 3/32", 1/8"), 3 Collet Bodies (1/16", 3/32", 1/8"), 3 Al. Nozzles (5, 6, 7), 3 Tungsten Electrodes 2% Ceriated (1/16", 3/32", 1/8")*	AK4C	**6UHK5**
A-150, A-200, W-350, W-410	1 Short Back Cap, 3 Collets .040", 1/16", 3/32", 3 Collet Bodies .040", 1/16", 3/32", 3 Al. Nozzles 4, 5, 6, 3 Tungsten Electrodes 2% Ceriated .040", 1/16", 3/32" x 7"	AK2C	**6UHK0**
	1 Short Back Cap. 3 Collets 1/16", 3/32", 1/8". 3 Collet Bodies 1/16", 3/32", 1/8". 3 Al. Nozzles 5, 6, 8. 3 Tungsten Electrodes 2% Ceriated .1/16", 3/32", 1/8" x 7"	AK3C	**6UHK2**
W-225 MODULAR	Ceriated Tungsten Electrodes (1/16, 3/32" 1/8"), 53N20 Wrench, Collet and Collet Body (1/16", 3/32", 1/8"), Lava Nozzles (#5, #6), Alumina Nozzles (#5, #6, #7, #8), Back Caps (Short, Medium, Long), (1) 24 (60° 160 Amp Torch Head), (1) 24-90 (90° 160 Amp Torch Head), (1) 9-90 (90° 200 Amp Torch Head), (1) 9P (180° 200 Amp Torch Head), (1) 1726P (180° 225 Amp Torch Head)*	AK-225MFC	**6UHJ9**

Description	For Use With	Dia.	Item No.	Pkg. Qty.
Insulators & Nozzles				
Insulator Nozzle	A-150 Series, A-200 Series, W-350 Series, W-410	—	**6UGR8**	2
Nozzle, Alumina	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto, A-150 Series, A-200 Series, W-350 Series, W-410, W-280, W-375	GL, #10 (3/8")	**6UHC7**	10
		GL, LG, #8 (1/2")	**6UHE6**	10
		LG, #12 (3/4")	**6UHC3**	10
	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto, W-280, W-375	#4 (1/4")	**6UGN6**	10
		#5 (5/16")	**6UGN7**	10
		#6 (3/8")	**6UGH1**	10
		#6 (3/8")	**6UHC0**	10 *
		#7 (7/16")	**6UGH2**	10
		#7 (7/16")	**6UHC1**	10 *
	A-150 Series, A-200 Series, W-350 Series, W-400, W-410	#5 (5/16")	**6UGL7**	10
		#6 (3/8")	**6UGH0**	10
		#7 (7/16")	**6UGG9**	10
		#8 (1/2")	**6UGG8**	10
		GL, #6 (3/8")	**6UHD7**	10
		GL, #7 (7/16")	**6UHD5**	10
Gas Lenses				
Gas Lens	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto	1/16"	**6UGZ3**	2
		3/32"	**6UGZ4**	2
		1/8"	**6UGZ5**	2
Gas Lens Insulator	A-150 Series, A-200 Series, W-350 Series, W-410	3/32"	**6UGY7**	2
		1/8"	**6UGY8**	2
		—	**6UHD2**	2
Gas Lens Insulator, LG	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto	—	**6UHE5**	2
		—	**6UHE4**	2
Gas Lens Large	A-150 Series, A-200 Series, W-350 Series, W-410	3/32"	**6UGZ8**	1
		1/8"	**6UHH8**	2
Gas Lens Large Stubby	A-80 Series, W-200, W-250 Series, W-250 Auto	1/8"	**6UHH9**	2
Collets & Collet Bodies				
Collet	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto, W-280, W-375	1/16"	**6UGH4**	5
		3/32"	**6UGH5**	5
		3/32" GL	**6UGR0**	2
	A-150 Series, A-200 Series, W-350 Series, W-410	1/16"	**6UGL0**	5
		3/32"	**6UGG3**	5
		1/8"	**6UGG4**	5
	W-200, W-250 Series, A-150 Auto, W-250 Auto, W-280, W-375	1/8"	**6UGH6**	5
Collet Body	A-125 Series, A-80 Series, W-200, W-250 Series, A-150 Auto, W-250 Auto, W-280, W-375	1/16"	**6UGH7**	5
		3/32"	**6UGH8**	5
		1/8"	**6UGH9**	5
	A-150 Series, A-200 Series, W-350 Series, W-410	1/16"	**6UGG6**	5
		3/32"	**6UGG7**	5
		1/8"	**6UGG5**	5

Description	For Use With	Item No.	Pkg. Qty.
Hoses			
Braided Rubber Water Hose, 25'	W-310 Series	**6UHL7**	1
Gas Hose Extension, Rubber, 25'	ALL	**6UGU6**	1
Couplers			
Gas Coupler, 5/8"-18 RH	—	**6UGN0**	1
Wire Clamp, Stainless Steel, Pkg. 10		**6UHA5**	10
Power Cables			
Rubber, 25'	A-125 Series, A-150 Series, A-150 Modular, A-150 Auto	**6UHG2**	1
Black Braided Rubber, 25'		**6UHG1**	1
Braided Rubber, 25'	W-310 Series	**6UHL6**	1
Power Cables Adapter			
Brass, WP-9, 17, 50	A-125 Series, A-150 Series, A-150 Modular, A-150 Auto	**6UGK5**	1

** Alumina Gas Lens*

Miller

Engine-Driven Welder/Generators

Electric start with continuous power for generator, plasma cutter, or inverter welder applications.

Blue Star—Compact, portable unit features electric start, auto-idle, and engine hour meter. Includes 120V GFCI and 240V receptacles.

Bobcat™—Bobcat 250 welders are engine-driven welder/generators with a larger stabilizer for less spatter, smoother arc, and more-precise amperage settings. The wider range is excellent for Stick/Flux-Core welding and carbon arc gouging. No. 16A178 delivers back-up power for pivot irrigation systems.

Trailblazer®—All-in-one multiprocess welder/generator delivers a smooth, stable arc and superior performance. Features an integrated rotary screw air compressor, and battery charge/jump start.

Big Blue—Clean, quiet, multiprocess machines are built to handle the most-demanding jobs. All-in-one units Nos. 408N08 and 408N12 eliminate the need for an air compressor.



Blue Star 185
No. 40GT17



Bobcat 250
No. 16A175

Series	Amp Range	Rated Output CC/AC	Rated Output CC/DC	Auxiliary Power	Fuel Type	Engine	Mfr. Model	Item No.
Blue Star 185	60 to 195	185A/25V @ 20%	185A @ 25V @ 20%	6.500W Peak/6.200W Cont.	Gas	13 HP Kohler	907664	**40GT17**
Bobcat™ 250	40 to 275	250A @ 25V @ 60%	250A @ 25V @ 100%	11KW Peak/9.5KW Cont.	Gas	23 HP Kohler	907500001	**16A175**
Bobcat™ 250 LP	40 to 250	250A @ 25V @ 60%	250A/25 V @ 100%	11KW Peak/9.5KW Cont.	Liquid Propane	21 HP Kohler	907504	**49WM49**
Bobcat™ 250 GFCI	40 to 250	250A @ 25V @ 60%	250A/25 V @ 100%	11KW Peak/9.5KW Cont.	Gas	23.5 HP Kohler	907500	**49WM50**
Bobcat™ 250 EFI	40 to 275	250A @ 25V @ 60%	250A @ 25V @ 100%	12KW Peak/10.5KW Cont.	Gas	23 HP Kohler	907502	**16A177**
Bobcat™ 3 Phase	50 to 210	200A @ 25V @ 100%	210A @ 25V @ 100%	11KW Peak/9.5KW Cont.	Gas	23 HP Kohler	907505	**16A178**
Trailblazer® 302 Air Pak	10 to 350	200A @ 25V @ 60%	280A @ 32V @ 100%	13KW Peak/11KW Cont.	Gas	30 HP Kohler	907549001	**21U874**
Big Blue® 400 Pro	20 to 400	—	300A @ 32V @ 100% / 325A/28V @ 100%	12KW Peak/10KW Cont.	Diesel	20.2 HP Kubota	907732	**408M97**
Big Blue® 500 Pro	20 to 500	—	400A @ 36V @ 100% / 450A @ 38V @ 60% / 500A @ 38V @ 40%	27KW Peak/20KW Cont.	Diesel	48.9 HP Kubota	907736	**408N03**
Big Blue® 600 Pro	20 to 600	—	500A @ 100% @ 550A @ 60% @ 600A @ 40%	27KW Peak/20KW Cont.	Diesel	48.9 HP Kubota	907737	**408N05**
Big Blue® 600 Air Pak™	20 to 600	—	500A @ 100% @ 550A @ 60% @ 600A @ 40%	27KW Peak/20KW Cont.	Diesel	65.7 HP Deutz	907750	**408N08**
Big Blue® 800 Duo Air Pak™	20 to 800	—	800 A @ 38 V @ 100%	27KW Peak/20KW Cont.	Diesel	65.7 HP Deutz	907752	**408N12**

Miller ESAB

Multiprocess Welders

High-performance integrated welders for MIG, stick, and TIG applications.

Multimatic™ 200—Lightweight (29 lb.), all-in-one unit has Auto-Set™ Elite that simplifies fine-tuning settings for multiple materials and processes. Includes: 10-ft. Bernard® gun, 13-ft. stick stinger, 10-ft. work cable with clamp, flow gauge regulator with 12-ft. gas hose, and material thickness gauge. No. 40GT18 also includes the Miller TIG Contractor Kit, which comes with a Weldcraft A-150 TIG torch, 25mm Dinse-style connector, an RFCS-6M foot control, and an AK2C torch accessory kit.
- **Output range: 200A**

XMT® 350—Internal airflow helps protect electrical components and PC boards from debris. Lift Arc™ increases output amperage at the start of weld, to eliminate electrode sticking and inclusion; line voltage compensation assures constant output. Include process selector switch, dual digital meters, arc control. Automatic thermal protection.
- **Rated output: 350A**

Fabricator®—3-in-1 units are lightweight and portable, providing a strong power source. Include: MIG gun, argon regulator/gauge and hose, electrode holder and ground clamp, drive rolls and contact tips, sample electrodes, and shoulder strap.

Rebel™—Powerful, highly portable unit can go anywhere you go, and comes with everything you need to get started welding. Includes: Tweco Spray Master 250 MIG Gun, Victor Argon flowgauge regulator, 12½ ft. gas hose, return clamp with leads, drive rolls and contact tips, 0.9 mm wire, and power adapter.



Multimatic™ 200
No. 19D433



No. 34FW14

Description	Function	Input Voltage	Duty Cycle	Mfr. Model	Item No.
Miller®					
Multimatic™ 200	Stick, TIG DC, MIG, Flux Cored	120 or 240	MIG -20% or STICK/TIG - 30%	907518	**19D433**
Multimatic™ 200 w/TIG Contractor Kit	Stick, DC TIG, MIG, Flux Core	120/240	—	951649	**40GT18**
XMT® 350 CC/CV, Dinse	MIG, Pulsed, Flux-Cored, Stick, TIG	208 to 575VAC	—	907161	**49KA68**
XMT® 350 CC/CV, S-74D, MIGRunner™ Package	Stick, TIG, MIG	240/400/460/575	—	951314	**36J751**
Esab					
Fabricator® 3-in-1 141i	MIG, DC TIG, Stick Welding	115	—	W1003141	**34FW14**
Rebel EMP 235ic Multi-Process MIG/TIG/Stick Package	Stick, DC TIG, MIG, Flux Core	120/208/230 VAC	40%	0558012702	**54RZ54**



Spectrum 375 X-TREME No. 13Z845

Air Plasma Cutting Systems

HOBART WELDERS · Miller · THERMAL DYNAMICS · JACKSON

AirForce™ 12ci—Inverter-based cutter can cut through mild steel to ¼". Powered by standard 120V household current, with a built-in air compressor.

AirForce™ 27i—Inverter-based cutter can cut through all conductive metals, up to ⅝" thick. Operates from standard 120 or 240VAC power with MVP power cord.

Spectrum® 375 X-TREME—Automatically connects to 115V or 240V. Cut mild steel to ⅜" at 15" per min. Includes 12-ft. torch and work clamp cables, MVP power cord, plugs, storage case, and extra consumables.

Spectrum® 625 X-TREME—Cut mild steel to ⅝". Ultra-Quick Connect™ torch cable allows portability and easy interchangeability of handheld or machine torches, for manual or automated cutting. Flexible quick-connect ground cable is easy to position. Each includes torch with cable, work clamp with 20-ft. cable, 12-ft. power cord, MVP adapters with 5-15P (120V, 15A) and 6-50P (240V, 50A) plugs, and extra consumables. No. 49X315 includes a 12-ft. torch; No. 49X316 has a 20-ft. torch.



AirForce 12ci No. 44YW19

Spectrum® 875 and 875 Auto-Line™—Cut mild steel to ⅞". Portable Ultra-Quick Connect™ torch cable allows interchangeability of handheld or machine torches. Each includes heavy-duty work clamp, 10-ft. power cord, and extra consumables. Nos. 49X319 and No. 49X323 include 20-ft. torches. Nos. 49X320, 49X324, and 49X327 include 50-ft. torches. No. 49X325 includes a 25-ft. torch. Both Nos. 49X325 and 49X327 feature long-body torches.

AirCut™—Lightweight cutting system has a built-in air compressor, to eliminate the need for an external compressor. Provides outstanding cutting power right out of the box; plug in and start cutting steel from ⅛" to 3/16". Easy-to-use hand torch switch controls.

CUTMASTER®—Powerful, lightweight units have hand torch or hand pendant control. Auto Pilot restart reignites the pilot while cutting expanded metals, for more-efficient operation. Include 75° angle torch with 20-ft. lead, 10-ft. input power cable, work cable and clamp, spare parts kit. No. 54TA04 cuts through ⅝" steel. No. 11G216 cuts steel to ¾". No. 20UJ67 can cut through steel to 1¾". No. 20UJ68 can cut through 2" steel.

Series	Rated Output	Duty Cycle	Input Voltage	Input (Amps)	OCV	Overall H (in.)	Overall W (in.)	Overall D (in.)	Mfr. Model	Item No.
Hobart										
AirForce 12ci	12A	35%	120V	20A	375VCD	10	8.25	13	500564	**44YW19**
AirForce 27i	27A	240V - 35%, 120V - 20%	120/240V	13.9/28.8A	400VCD	11.25	8.25	14.25	500575	**44YW18**
Miller Electric										
Spectrum 375 X-TREME	30A	240V - 35%, 120V (20A) - 20%, 120V (15A) - 35%	208/240V	13.6/20A	—	9	5.5	13.25	907529	**13Z845**
Spectrum 625 X-TREME	40A	120V -20%, 240V -50%	120/240V	18/27A	—	9	5.5	13.25	907579	**49X315**
	40A	120V -20%, 240V -50%	120/240V	18/27A	—	9	5.5	13.25	907579001	**49X316**
Spectrum 875	60A	208V - 40%, 230V - 50%	208/240V	42/47A	—	13.5	8.75	18.5	907583	**49X319**
	60A	208V - 40%, 230V - 50%	208/ 230 V	43/47A	—	13.5	8.75	18.5	907583001	**49X320**
Spectrum 875 Auto-Line	60A	40%, 100%	208/575V	9.8/27.5A	—	13.5	8.75	18.5	907584	**49X323**
	60A	40%, 100%	208/575V	9.8/27.5A	—	13.5	8.75	18.5	907584001	**49X324**
	60A	40%, 100%	208/575V	9.8/27.5A	—	13.5	8.75	18.5	907584002	**49X325**
	60A	40%, 100%	208/575V	9.8/27.5A	—	13.5	8.75	18.5	907584004	**49X327**
Thermal Dynamics										
AirCut 15	15A	35% At 15A	120V	12A	300-320	9.5	6.5	18	1-1110-1	**11G203**
Cutmaster® 60i With Patented SL60QD Torch	60A	50% @ 60A	208/480V	39A @ 230V - 19A @ 480V	300V	14.15	7.85	21.12	1-5630-1X	**54TA04**
Cutmaster 60i	60A	50%, 60%, 100%	208/480V	19/39/43A	300VDC	14.1	7.85	21.12	1-5631-1X	**54TA05**
Cutmaster 82	80A	40% At 80A 60% At 65A 100% At 55A	208/230V	72A	300-320	15	12	24	1-1130-1	**11G216**
Cutmaster 102	100A	60% @ 100A	208/230V	29/45A	320	15	12	30	1-1330-1	**20UJ67**
Cutmaster 152	120A	60% @ 120A	208/230V	27/56A	320	15	12	30	1-1730-1	**20UJ68**

Description	Mfr. Model	Item No.
Accessories		
Jackson Safety		
Magnetic Burning Guide	14791	**2UPX6**
Pipe and Steel Marker, For Pipes 1½" to 18"	14771	**2UPX4**
Standard Centering Head, For ½" or Larger Pipe	14775	**2UPX5**
Replacement Dial Set Level for No. 2UPX5	14797	**2UPY3**
Contour Worker Tool Kit, for Pipe Marking	20664	**2UPY4**
Thermal Dynamics		
Circle Cutting Guide Kit, 2⅛" thru 27¾"	7-3291	**2UPZ6**
Radius/Roller Cut Guide Kit, 3" thru 28¾"	7-7501	**2UPZ7**
Circle and Radius/Roller Kit, For Straight Line Cutting	7-8910	**2UPZ8**
Straight Line/Bevel Cutting Guide Kit	7-8911	**2UPZ9**



Arc Gouging Torch No. 5UR92

Arc Gouging and Cutting

ARCAIR

Arc Gouging Torch—Speeds backgouging, edge preparation, defect repair, and other metal removal jobs. Low heat input minimizes deformation. Rated to 1000A for heavy-duty metal removal. Accepts round electrodes from 5/32" through ½", and ⅜" and ⅝" flat electrodes.

Description	Item No.
Arc Gouging Torch	
Arcair K-4000 Gouging Torch	**5UR92**
Gouging Electrodes, For Use With Arc Gouging Torch	
¼" Pointed Copperclad DC Gouging Electrodes, Pkg. 50	**6CET5**
⅜" Pointed Copperclad DC Gouging Electrodes, Pkg. 50	**6CET7**
½" Pointed Copperclad DC Gouging Electrodes, Pkg. 50	**6CET8**
½" Jointed Copperclad DC Gouging Electrodes, Pkg. 100	**6CER6**
Cutting Rod, For Use With Exothermic Cutting System	
Flux Coated Cutting Rods, ¼" x 22", Pkg. 25	**4PE96**
Flux Coated Cutting Rods, ¼" x 22", Pkg. 100	**4PE98**

ATTC® brand consumables to fit ATTC® and HyperTherm® brand Plasma Torches are available at Grainger.com®.



Electrode, Extended
No. 3RDV6



Drag Shield
No. 38G617

Miller



Roller Guide
No. 38G630

Plasma Torches and Consumables

For Use With	Description	Mfr. Model	Item No.	Pkg. Qty.
Plasma Torches				
375 X-TREME	XT30 Series, With 12 Ft. Cable	249949	**13Z846**	1
625 X-TREME	XT40 Series, With 12 Ft. Cable	249951	**13Z851**	1
	XT40 Series, With 12 ft. Cable, Quick Disconnect	260633	**49WM70**	1
	With 20 ft. Cable, Quick Disconnect	260635	**49WM69**	1
	XT40 Series, With 20 Ft. Cable	249952	**13Z852**	1
Miller Spectrum 875	XT60 Series, With 20 Ft. Cable	249953	**49WM75**	1
	XT60 Series, With 50 Ft. Cable	249954	**31CF07**	1
Spectrum 625 907058	With 25 Ft. Cable	195110	**31MJ93**	1
Accessories				
XT/ICE Torches	Cutting Guide	253055	**38G631**	1
	Roller Guide	253054	**38G630**	1
Consumables				
Universal	Plasma Cutter Kit	770655	**49WM52**	1
ICE 12C	Plasma Cutting Tip	196926	**3RDR3**	5
	Electrode, 27 Amps	196925	**3RDR2**	5
ICE 25C/CX/T	Plasma Cutting Tip	176656	**3RDR5**	5
ICE 27C/T	Electrode	176655	**3RDR4**	5
ICE 40C	Plasma Cutting Tip	204325	**3RDV5**	5
ICE 40C, 55C/CM	Plasma Cutting Tip, Extended	192052	**3RDV7**	5
ICE 40, 50C, 55C/CM	Electrode	192047	**3RDR6**	5
	Electrode, Extended	192048	**3RDV6**	5
ICE 40C/T	Drag Shield	204323	**38G617**	1
ICE 40C/T, 50C/CM, 55C/CM	Retaining Cup	192050	**38G611**	1
ICE 60T, 100T/TM	Plasma Cutting Tip	219676	**3RDV9**	5
	Plasma Cutting Tip, Extended	219682	**3RDW1**	5
ICE 60T/TM, 80CX/T, 100T	Drag Shield	212730	**38G619**	1
ICE 60T/TM, 80CXM/TM, 100TM	Retaining Cup	212733	**38G622**	1
ICE 60T, 80T/TM/CX/ CXM, 100T/TM	Electrode	212724	**3RDV8**	5
ICE 80T/TM/CX/CXM, 100T/TM	Plasma Cutting Tip	212726	**3RDW2**	5
	Plasma Cutting Tip, Extended	212728	**3RDW3**	5
ICE 100T/TM	Plasma Cutting Tip	219679	**3RDW4**	5
	Plasma Cutting Tip, Extended	219683	**3RDW5**	5
XT60	Deflector	256030	**49X334**	1
	Drag Shield	256027	**49X331**	1
XT 60, XT60M	Electrode	256026	**49X330**	3
XT60	Gouge Shield	256031	**49X335**	1
	Gouge Tip	249935	**49X336**	3
	O-Ring	263834	**49X337**	3
	Retaining Cup	256029	**49X333**	1
	Swirl Ring	256028	**49X332**	1
	Tip 60A	249929	**49X329**	3
	Tip 40A	262643	**49X338**	3
XT30 Torch	Drag Shield	249930	**15F417**	1
	Tip	249927	**15F415**	3
XT40 Torch	Torch Gouge Tip	249934	**13Z849**	3
	Torch Gouge Shield	249936	**13Z850**	1
	Torch Tip	249928	**13Z847**	3
XT30/40 Torch	Electrode	249926	**15F414**	3
	O-Ring	249969	**15F412**	3
	Shield Cup	249932	**15F416**	1
	Swirl Ring	249931	**15F413**	1
XT30/40/60 Torch	Deflector	249933	**15F418**	1
Consumable Kits				
ICE 27C/T	Plasma Torch Consumable Kit	222939	**3RDW6** *	1
ICE 40C/T		222940	**3RDW7** *	1
ICE 60C/T		239086	**3RDW8** *	1
ICE 80C/T		222942	**3TPL8** *	1
XT30		253520	**38G632** *	1
XT40		253521	**38G633** *	1
XT60 Torch		256033	**49WM74**	1

For a complete list of consumable kit contents, see Grainger.com®



Plasma Torch
No. 2CZF1



Electrode
No. 2CZG8



Start Cartridge
No. 2CZG7

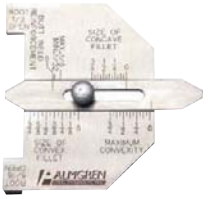
THERMAL DYNAMICS

Plasma Torches and Consumables

For Use With	Description	Mfr. Model	Item No.	Pkg. Qty.
Plasma Torches				
Universal	20 to 60A, 20-ft. Lead	7-5200	**2CZF1**	1
	30 to 100A, 20-ft. Lead	7-5202	**2CZF2**	1
PCH-10, AirCut 15C	With Leads	2-1020	**11G204**	1
SL40, Cutmaster 42		7-0040	**11G208**	1
Thermal Dynamics Cut Master Plasma Systems	60A/75° Torch, 20-ft. Lead	7-5204	**20UJ69**	1
	60A/90° Torch, 20-ft. Lead	7-5260	**20UJ71**	1
Thermal Dynamics SL60QD	Replaceable Torch Lead for 20 ft. QD Torch	4-5604	**54TA10**	1
	Replaceable Torch Lead for 50 ft. QD Torch	4-5605	**54TA11**	1
Consumables				
Universal	Drag Tip, 20A	9-8205	**2CZF7**	5
	Drag Tip, 30A	9-8206	**2CZF8**	5
	Drag Tip, 40A	9-8207	**2CZF9**	5
	Standoff Tip, 40A	9-8208	**2CZG1**	5
	Standoff Tip, 50/55A	9-8209	**2CZG2**	5
	Standoff Tip, 60A	9-8210	**2CZG3**	5
	Standoff Tip, 70A	9-8231	**2CZG6**	5
	Standoff Tip, 80A	9-8211	**2CZG4**	5
	Standoff Tip, 90/100A	9-8212	**2CZG5**	5
	Gouging Tip, A Style, 40 A	9-8225	**2UPY5**	5
	Gouging Tip, B Style, 60-100 A	9-8226	**2UPY6**	5
	Gouging Tip, C Style, 60-100 A	9-8227	**2UPY7**	5
	Gouging Tip, D Style, 60-100 A	9-8228	**2UPY8**	5
7-5200, 7-5202	Shield Cap Machine, 40A	9-8245	**3JXG5**	1
	Drag Shield Cap, 50-60A	9-8235	**2UPY9**	1
	Drag Shield Cap, 70-100A	9-8236	**2UPZ1**	1
	Gouging Shield Cap	9-8241	**2UPZ3**	1
	O-Ring	8-3487	**3JXG1**	5
		8-3486	**3JXG2**	5
	Replacement Electrode	9-8215	**2CZG8**	5
	Shield Cap Deflector	9-8243	**3JXG8**	1
	Shield Cap Machine, 50-60A	9-8238	**3JXG6**	1
	Shield Cap Machine, 70-100A	9-8239	**3JXG7**	1
	Shield Cup	9-8218	**2UPZ2**	1
	Shield Cup, Maximum Lif	9-8237	**3JXG3**	1
	Start Cartridge	9-8213	**2CZG7**	1
	Shield Cap	9-8244	**3JXG4**	1
PCH-10, PCH-20, PCH-25, PCH/M-28/35	Electrode, 40 Amps	9-6006	**3LVL5**	5
PCH-10, PCH-25, PCH-25/38, PCH-26, PCH/M-28/35, PCH/M-40	Shield Cup, 40 Amps	9-6003	**3LVL4**	1
PCH-25/38, PCH-26, PCH/M-28/35, PCH/M-40	Electrode, 40 Amps	9-6506	**3LVL8**	5
	Gas Distributor, 40 Amps	9-6507	**3LVL9**	1
PCH-26	Plasma Cutting Tip, Standard	9-6501	**3LVL7**	10
PCH-28	Plasma Cutting Tip, Standoff	9-6500	**3LVL6**	10
	Plasma Cutting Tip, Drag	9-6001	**3LVL3**	10
PCH-51	Plasma Cutting Tip, Standoff	9-5631	**3LVN2**	5
PCH/M-51	Electrode, 30-60 Amps, Knurled	9-5720	**3LVN4**	5
	Electrode, 30-60 Amps, Standard	9-5633	**3LVN3**	5
	Shield Cup, 30-60 Amps, Ceramic	9-5630	**3LVN1**	5
PCH/M-52, PCH/M-53	Electrode, 30-105 Amps	9-5619	**3LVN6**	5
PCH/M-60, PCH/M-75, PCH/M-76, PCH/M-80, PCH/M-100XL	Electrode, 55 Amps	8-7502	**3LVP1**	5
	Gas Distributor, 55 Amps	8-7501	**3LVN9**	1
	Shield Cup, 55 Amps, Standard	8-7500	**3LVN8**	1
PCH-62	Plasma Cutting Tip, Standoff	8-7514	**3LVP5**	5
PCH-75		9-5708	**3LVN7**	5
		8-7504	**3LVP3**	10
PCH-80		8-7503	**3LVP2**	10
PCH-100		8-7505	**3LVP4**	10
PCH-102		9-7728	**3LVP6**	10
PWH-3A Plasma Torch	Electrode	9-1747	**49NW68**	5
PWH/M-3A/3A Plasma Torch	Tip	9-1811	**49NW70**	10
	Gas Distributor	9-2240	**49NW67**	1
SL40, Cutmaster 42	Plasma Electrode	9-0096	**11G212**	5
Thermal Dynamics 1 Torch	Plasma Tip	9-8252	**20UJ75**	5
Consumable Kits (Includes 10 Tips, 5 Electrodes, 1 Start Cartridge)				
7-5200, 7-5202	30A Kit	5-2550	**3JXG9**	1
	40A Kit	5-2551	**3JXH1**	1
	50-55A Kit	5-2552	**3JXH2**	1
	60A Kit	5-2553	**3JXH3**	1
	80A Kit	5-2555	**3JXH5**	1
	90-100A Kit	5-2556	**3JXH6**	1
Torch Adapter Kits (Includes Connection Fitting And Electrical Connectors)				
Adapts 1Torch to Hypertherm Powermax1000, 1250		7-3461	**3JXF9**	1
Fits Miller Spectrum 375 and Hypertherm Powermax 380 (Non HF)		7-3477	**2CZF5**	1
Fits Miller Spectrum 625 (Non HF)		7-3478	**2CZF6**	1



Welding Pliers
No. 2CZD6



Butt/Fillet Weld Gauge
No. 2UPX3

Miller
WESTWARD
PALMGREN
UNIWELD
SUPPLIER DIVERSITY
GA GRAINGER APPROVED



Chipping Hammer w/Brush
No. 2WDR2

Welding Accessories

Two Hose Manifolds—Connect at the regulator outlet, enabling use of 2 torches at the same time.

Welding Pliers—Use these spring-loaded pliers to cut and draw welding wire, clean parts, grip nozzles, and install or remove insulator bushings. PVC handgrips.

Butt/Fillet Weld Gauge—Use to check and measure the size of butt welds, root openings, and convex and concave fillets. A finger knob allows easy locking. Laser etched stainless steel with threaded pin.

Cylinder Adapter Set—F31 tank to regulator adapter converts B tank CGA 520 to MC CGA 200 regulator. F41 converts MC tank CGA 200 to B CGA 520 regulator.

Hose Repair Kit—Includes heavy-duty crimper, both A and B sizes of 24 nuts, 24 nipples, 4 couplers, 32 ferrules, and 6 splicers. For hoses 3⁄16" to 1⁄4" I.D.

Chipping Hammers and Brush—Forged head has chisel on 1 end and point on the other to remove weld splatter. Steel shaft and wire handle.

Item	Description	Brand	Item No.
Two Hose Manifolds	Y Connector for Oxygen B Connections	Miller Electric	2CZN6
	Y Connector for Fuel B Connections	Miller Electric	2CZN7
Welding Pliers	8" Carbon Steel	Westward	2CZD6
Butt/Fillet Weld Gauge	From 0 to 3⁄4"	Palmgren	2UPX3
Cylinder Adapter Set	Cylinder Adapter Set	Uniweld	5KH11
Hose Repair Kit	Welding Hose Repair & Installation Kit	Uniweld	3NY89
Chipping Hammers	Horizontal, 6" Head Length, 5.6 oz. Head	Westward	2DBV1
	Vertical, 3.70" Head Length, 5.11 oz. Head	GA	19N773
	Vertical, 6" Head Length, 5.6 oz. Head	Westward	2DBU9
	Vertical, 6.18" Head Length, 6.88 oz. Head	GA	19N775
	Vertical, 6.22" Head Length, 7.23 oz. Head	GA	19N774
	Vertical, 6.54" Head Length, 6.70 oz. Head	GA	19N781
	Vertical, 7.48" Head Length, 16.23 oz. Head	GA	19N777
	Vertical, 7.64" Head Length, 15.17 oz. Head	GA	19N779
	Vertical, 7.64" Head Length, 16.37 oz. Head	GA	19N780
	Vertical, 7.64" Head Length, 17 oz. Head	GA	19N778
Chipping Hammer w/Brush	Vertical, 4" Head Length, 4.4 oz. Head	Westward	2WDR2
Scratch Brush	Straight, 3 Rows	GA	19N784

MAG-MATE
SUMNER A Southwire Company
GENERAL
magswitch



Magnetic Welding Squares
No. 2MJJ7



Magnetic Welding Link
No. 3G919

Welding Grounds and Squares

Magnetic Welding Grounds—Powerful, permanent magnetic clamps attach securely to work surfaces. Spring-loaded models have breakaway release handle. On/Off models can be used on flat or pipe surfaces.

Magnetic Holder—Offers fast and accurate positioning, holding, and fit-up of round, and/or square tubing and steel plates.

Magnetic Welding Link—Holds steel plates in position for welding, brazing, and soldering.

Magnetic Welding Squares—Have 2 holes for fixture mounting, and allow thread-rod positioning for larger sheets. Corrosion-resistant zinc-plated poles. Can be used on flat or pipe surfaces.

Welding Magnet Protractor—Magnetic clamp holds ferrous metals at fixed angles for clamping or welding.

Type	Max. Pull (lb.)	Dia. (in.)	L (in.)	Amps	Mfr. Model	Item No.
Magnetic Welding Grounds, Mag-Mate						
Spring Loaded	35	3½	—	250	WG250	2MJK6
	35	3½	—	800	WG800	2MJK8
On/Off Welding Ground	150	—	2⅞	200	WG200R	45EX64
	450	—	5	800	WG800R	45EX66

Description	Max. Pull	Color	Overall Width	Overall Length	Brand	Item No.
Magnetic Holder						
Magnetic Fixture 45, 90 & 135°, Holds 90 lb.					Sumner	19F653
Magnetic Welding Angle						
Ergonomic Handle	275 lb.	Black	2⅛"	7¼"	Mag-Mate	401M74
Holds On Three Sides	150 lb.	Red	2⅛"	9⅜"	Mag-Mate	45EX69
Inside or Outside 90° Holding	450 lb.		3⅞"	12¼"	Mag-Mate	45EX71
Magnetic Welding Angle w/Ground						
On/Off Handle	150 lb.	Red	1 15⁄16"	4"	Mag-Mate	45EX68
Magnetic Welding Link						
(2) Alnico Magnetic Blocks Linked w/Steel Bar & Wing Nuts, 25 lb. Per Block					General Tools	3G919
Magnetic Welding Square						
45°/90° Angles	160 lb.	Silver	¾"	8"	Mag-Mate	38Y429
Adjustable Angle Square	120 lb.		1⅜"	7⅜"	Mag-Mate	2MJJ8
Compact	60 lb.		3¾"	3¾"	Mag-Mate	48FY43
Compact Multiple Angle Square	60 lb.		¾"	3¾"	Mag-Mate	2MJJ7
Holds Work Pieces at Different Angles	55 lb.		¾"	4⅜"	Mag-Mate	2MJJ6
	110 lb.		1⅜16"	4⅜"	Mag-Mate	38Y424
Inside 90° Outside 45°/90°	40 lb.		⅝"	5½"	Mag-Mate	38Y425
Large w/Weld Spatter Cover/Breakaway Bar	325 lb.		2¼"	8"	Mag-Mate	2MJK4
Mid-Size Heavy Duty, Weld Spatter Cover/Breakaway Bar	150 lb.		1½"	3¾"	Mag-Mate	2MJK2
Mid-Size Multiple Angle Square	75 lb.		¾"	3¾"	Mag-Mate	2MJJ9
Mid-Size w/Weld Spatter Cover	75 lb.		¾"	3¾"	Mag-Mate	2MJK1
Multi-Angle w/Large Finger Hole	60 lb.		¾"	3¾"	Mag-Mate	31HG52
Switchable Technology, Tapped Holes for Fixture	1052 lb.	Yellow	2.8"	4.3"	Magswitch	406T02
Tapped Holes for Fixture	150 lb.	Red	1½"	1½"	Mag-Mate	45EX61
	450 lb.		2½"	3"	Mag-Mate	45EX62
	1000 lb.		4"	4¼"	Mag-Mate	45EX63
Welding Angle						
Compact, Lightweight	215 lb.	Yellow	3.9"	9.1"	Magswitch	406T07
Welding Magnet Protractor						
Provides Fixed 30°, 45°, 60°, 75° & 90°, Up to 50 lb. Resistance					General Tools	3G921



Ground Clamp
No. 1UYE9

GA GRAINGER APPROVED
TWECO

Arc Welding Accessories

Ground Clamps—High-tensile, tight spring grips. 98% copper alloy minimizes resistance in electrical flow. GA clamps have a steel clamp with copper strap and jaw. Tweco clamps Nos. 44ZE41 and 44ZE34 are steel with a brass jaw. Nos. 44ZE44, 44ZE33, and 44ZE39 feature copper construction.

Description	Size	Brand	Item No.
Ground Clamps			
Brass, #1 Cable Size	300 Amps	GA	19N767
Brass, 2/0 Cable	400 Amps	GA	19N768
Brass, 4/0 Cable	600 Amps	GA	19N769
Brass And Steel	300 Amps	GA	19N770
Brass and Steel, Jaw Opens 1½"	600 Amps	GA	19N771
Brass And Steel	800 Amps	GA	19N772
Steel With Braided Copper Shunt	200 Amps	GA	19N765
	300 Amps	Tweco	44ZE41
	500 Amps	Tweco	44ZE34
	500 Amps	GA	19N766
Copper/Brass	200 Amps	GA	1UYE9
	300 Amps	GA	1UYF1
Copper	500 Amps	GA	1UYF2
Copper/Brass	200 Amps	Tweco	44ZE44
	300 Amps	GA	1UYF3
	300 Amps	Tweco	44ZE33
	500 Amps	Tweco	44ZE39

Cable Connectors—Fully insulated with rubber boots. For use with arc welders.

Ball Point Lugs and Female Terminals—Copper lugs are rated at 80V.

Description	Size	Brand	Item No.
Cable Connectors			
Male/Female 1MPC	For 4, 2, 1	GA	1UYF4
Male/Female 2MPC	For 1/0, 2/0, 3/0	GA	1UYF5
Male 2MPC1	For 1/0, 2/0, 3/0	GA	1UYF6
Female 2MPC1	For 1/0, 2/0, 3/0	GA	1UYF7
Male/Female 4MPC	For 3/0, 4/0	GA	1UYF8
Male/Female, Double Ball Point	For 3/0, 4/0	Tweco	44ZE36
Female, Double Ball Point	For 3/0, 4/0	Tweco	44ZE37
Male/Female, Single Ball Point	For 1/0, 2/0, 3/0	Tweco	44ZE38
Lug	For 6-2	Tweco	49NW86
	For 1 -2/0	Tweco	49NW87

Description	Size	Brand	Item No.
Cable Ball Point Lugs			
Straight	Up to 1/0 Cable	Tweco	6NE38
	Up to 4/0 Cable	Tweco	6NE40
	Up to 4/0 Cable, w/Cover	Tweco	6NE44
45° Angle	Up to 1/0 Cable	Tweco	6NE37
	Up to 1/0 Cable, w/Cover	Tweco	6NE41
	Up to 4/0 Cable	Tweco	6NE39
	Up to 4/0 Cable, w/Cover	Tweco	6NE43
Cable Female Terminals			
Straight	1MPC, w/Cover	Tweco	6NE46
	2MPC or 4MPC, w/Cover	Tweco	6NE48
45° Angle	1MPC, w/Cover	Tweco	6NE45
	2MPC or 4MPC, w/Cover	Tweco	6NE47

Jack Stands and Roller Stands

SUMNER® A Southwire Company

Offered with a variety of heads to keep workpieces in position. Jacks feature 1½" Acme fine adjustment thread, large adjustment handle, quick-action and lock washer. Set screw can lock the jack head to the stand with no loose pieces. Jacks are independently load tested.

Lo-Jack—Fall Guard™ protection allows safety zone around lock washer. 1" square tube base construction with rounded foot pads. Strut tension plate provides superior lateral support.

Fold-A-Jack®—Jack folds up for simple storage and has a built-in carrying handle for easy transport. Fall Guard™ feature provides a safe zone around the lock washer.

FAB SAF™ JACK—Features a quick-action lock washer for fast setup.

Hi Boy™—Easy-to-transport tall jack is specifically designed for use in tight pipe installations, such as in mechanical rooms or tunnels.

Max Jax—Features 12" V head for maximum safety.

Adjust A Roll™—Features a simple design that won't interfere with welding operations, and fast roller adjustment from either side for easy pipe positioning. Bronze bearing helps eliminate arcing.

Pro Roll™—Quick-change roller housings help speed setup. A brake locks loads for layout or fit-up. Adjustable-height, with leveling on either side of stand.

Beam-Jax™—Has automatic clamping device that centers load. Detachable handle attaches to either side and rotates out of operator's way. Reversible beam forks. Handles beams up to 24".



Fold-A-Jack® w/Roller Head No. 19F636



Max Jax w/Casters and Rollers No. 19F640



Pro Roll™ w/Rubber Wheels No. 19F632



Beam-Jax W/Casters No. 19F641

	Pipe Cap.	Overall Height	Load Capacity	Type	Features	Item No.
Jack Stands						
Lo-Jack	⅛ to 24"	21" to 36"	2500 lb.	V Head	1" Square Tube Base Construction, For Heavy Duty Use	19ZF73
Fold-A-Jack	24"	21" to 36"	2500 lb.	V Head	Folding Low Jack, 1" Square Tube Base Construction, For Heavy Duty Use	19ZF74
Hi Fold-a-Jack with Fall Guard	24"	28" to 49"	2500 lb.	V Head	Folds and Has Convenient Carrying Handle	19F635
Hi Fold-a-Jack	24"	28" to 49"	2500 lb.	Roller Head		19F636
Fab Saf™	24"	32" to 52"	3500 lb.	Ribbed V Head	Ribbed V-Head	19F637
	24"	32" to 52"	2500 lb.	Roller Head	Roller Head	19F638
Hi Boy™	24"	39 to 72"	1000 lb.	V Head	V-Head	19F639
Max Jax	36"	36½"	2500 lb.	Casters And Rollers	Sturdy 5 Leg Construction, Casters Lock	19F640
Roller Stands						
Adjust A Roll™	½ to 36"	31"	1200 lb.	Rubber Wheels	Roller Adjustment From Either Side	19F627
	½ to 36"	31"	2000 lb.	Stainless Steel Wheels		19F628
Pro Roll	½ to 36"	29" to 43"	1200 lb.	Rubber Wheels		19F632
	½ to 36"	29" to 43"	1200 lb.	Ball Transfer Wheels		19F631
	½ to 36"	29" to 43"	2500 lb.	Steel Wheels		19F630
	½ to 36"	29" to 43"	2000 lb.	Stainless Steel Wheels		19F633
	½ to 36"	29" to 43"	2000 lb.	Bar Stock Head	Roller Adjustment From Either Side, Fits ⅛" to 10" Sheet Metal	19F634
Beam Jax™	36"	37.3"	2500 lb.	With Casters	Sturdy 5 Leg Construction, Casters Lock, Adjustable Reversable Beam Forks w/Detachable Handle	19F641
Accessory						
Stainless Steel Vee Head Sleeve Fits Fold-A-Jacks, Pro Jacks and Heavy Duty Jacks						19F642



Internal Fit-Up Clamp No. 19F668



Clamp Champ No. 19F644



Ultra Clamp Pipe Clamp No. 19F648

SUMNER® A Southwire Company

Clamps

Internal Fit-Up clamps are for use with standard and slip-on flanges. Clamp Champs are capable of a wide range of fit-ups. Ultra clamps have a push-button design that allows rapid setting and fine tuning. Stainless steel contacts.

Description	Item No.
Internal Fit-Up Clamps	
2 to 4", Stainless Steel	19F666
4 to 8", Stainless Steel	19F667
8 to 12", Stainless Steel	19F668
Clamp Champs	
1 to 10", Steel	19F645
1 to 10", Stainless Steel	19F644
1 to 16", Steel	19F643
Ultra Clamp Pipe Clamps	
1 to 2½", Steel	19F646
2 to 6", Steel, Qwik Clamp	19ZF69
2 to 6", Steel	19F647
5 to 12", Steel	19F648

NATION WIDE PRODUCTS

Pipe Cutting Guides

For cutting pipe at 22°, 45°, 90° and saddle cuts.

Sizes	Item No.
Pipe Cutting Guides	
1⅛" Dia.	18C546
2 ⅜" Dia.	18C547
2 ⅞" Dia.	18C548
3 ½" Dia.	18C549
4 ½" Dia.	18C550
Pipe Cutting Guide Sets	
3½" & 4½"	18C552
1⅛", 2⅜", 2⅞"	18C551



No. 18C548

SUMNER® A Southwire Company

Flange Alignment Tools

Mul-T-Square®—Handles up to 8" flanges and up to 14" fittings. Consists of two 45° arm blades. Marked blades indicate Imperial and Metric units.

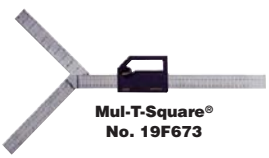
Flange Leveler—2-hole and level in one operation. Use Qwik Pin nuts for fast action. Acme threads.

Flange Spreaders—Used for 150 to 1,500 lb flanges. Drive can be rotated by 1⅜" wrench or ½" bar.

Qwik Pins—Quick installing pins work to level flange (2-hole) for tack and weld-out. Acme threads.

Rotary Ground Clamp—Positive anti-arc bearings take loads up to 400 Amps.

Digital Angle Finder—Can be used to establish an accurate centerline on pipes and tanks. Built-in spring-loaded hardened striking pin marks location with the push of a button. Detachable digital gage has a magnetic base.



Mul-T-Square® No. 19F673



Flange Leveler No. 19F650



Digital Angle Finder No. 45EK88

Description	Application	Item No.
Mul-T-Square	23.5" x 9", 8" Flanges And 14" Fittings, 45 & 90° Angles	19F672
	29" x 9", 8" Flanges And 14" Fittings, 45 & 90° Angles	19F673
Flange Leveler	Automatically Center On ⅝" - 1⅜" Flange Holes	19F650
Flange Spreader	3", 150-400 Lbs	19F664
	4", 150-1500 Lbs	19F663
	6⅜", 150-1500 Lbs	19F662
Qwik Pins	Automatically Center On ⅝" - 1⅜" Flange Holes	19F649
Rotary Ground Clamp	Rotary Head Turns With Pipe	19F665
Digital Angle Finder	4° to 90°, Auto Power-Off	45EK88





BuildPro™ Welding Tables

Modular Welding Tables

Precision ⅝"-thick ground-steel plates have machined ⅝" holes in a 2" grid pattern to locate, position, and hold fixtures with modular clamps and components. 1¾" slot between plates is designed for optimum flexibility.

Note: Welding Tabletops and Modular Fixturing Kits are available online. Go to Grainger.com® and search for "Welding Tabletops" or "Fixturing Kits."

Overall Width	Overall Depth	Overall Height	Load Capacity	PLAIN PLATES Item No.	NITRITED PLATES Item No.
Welding Tables					
38"	22"	30"	1300 lb.	**30D314**	**30D348**
		36"	1300 lb.	**30D309**	**30D343**
47"	38"	24"	2600 lb.	**30D319**	**30D351**
		30"	2600 lb.	**30D315**	**30D349**
		36"	2600 lb.	**30D310**	—
	46"	36"	2600 lb.	**30D311**	**30D345**
78"	38"	24"	4400 lb.	**30D321**	**30D352**
		30"	4400 lb.	**30D317**	**30D350**
		36"	4400 lb.	**30D312**	**30D346**
	46"	30"	4400 lb.	**30D318**	—
		36"	4400 lb.	**30D313**	**30D347**

Description	Item No.
Table Parts	
Welding Table Plate, 6¼" W x 38" D x ⅝" H	**30D307**
Welding Table Leg, 25"H, Includes 1 Table Leg	**30D331**
Welding Table Leg, 31"H, Includes 1 Table Leg	**30D332**
Adjustable Welding Table Leg	**30D333**
Welding Table Leg Brace Kit, Includes (4) Corner Rail Clamps, (4) Cross Link Tubings, For Tables 47" x 38" and 47" x 46"	**30D334**
Welding Table Leg Brace Kit, Includes (4) Corner Rail Clamps, Line Rail Clamps, Cross Link Tubings, For Table 78" x 38"	**30D335**
Welding Table Caster	**30D336**
Modular Fixturing Kit	
(20) Fixed Ball Lock Bolts, (4) Adjustable Ball Lock Bolts, (12) Straight Edge Stops, (4) Threaded Adaptors, (8) Inserta-Clamps, (12) Right Angle Plates, (4) Top V-Padsfor Clamps, (4) Eccentric Pads, (4) V-Blocks, (4) Stops, (4) Magnetic Rest Buttons	**30D325**
(30) Fixed Ball Lock Bolts, (10) Adj. Ball Lock Bolts, (12) Straight Edge Stops, (8) Threaded Adaptors, (18) Inserta-Clamps, (16) Right Angle Plates, (8) Top V-Pads for Clamps, (4) Eccentric Pads, (8) V-Blocks, (4) Riser Blocks, (6) Economy Stops, (2) MagSpring Clamps, (2) Table Mount C-Clamps, (4) Mag. V-Pads, (4) Magnetic Rest Buttons, (2) Connectors, (2) Pipe Pliers, (2) Magnetic Rests, (4) Stops	**30D328**
(40) Fixed Ball Lock Bolts, (10) Adj. Ball Lock Bolts, (12) Straight Edge Stops, (8) Threaded Adaptors, (20) Inserta-Clamps, (16) Right Angle Brackets, (8) Top V-Pads for Clamps, (4) Eccentric Pads, (8) V-Blocks, (6) Riser Blocks, (4) MagSpring Clamps, (8) Table Mount C-Clamps, (4) Magnetic V-Pads, (4) Magnetic Rests, (2) Connectors, (2) Pipe Pliers, (4) Stops, (4) Magnetic Rest Buttons, (8) Economy Stops	**30D329**
(30) Fixed Ball Lock Bolts, (10) Adj. Ball Lock Bolts, (12) Straight Edge Stops, (4) Threaded Adaptors, (10) Inserta-Clamps, (16) Right Angle Plates, (4) Top V-Pads for Clamps, (4) Eccentric Pads, (8) V-Blocks, (4) Economy Stops, (2) MagSpring Clamps, (4) Mag. V-Pads, (4) Table Mount C-Clamps, (4) Magnetic Rest Buttons, (4) Stops	**30D326**



Mobile Welding Cart

Features a Ball Lock Bolt that lets you clamp and fixture your work pieces at just about any point on the reversible, flat, nitrided (heat treated) 30" x 48" tabletop surface, to help assure accuracy in all of your welding and fabrication setups. With integrated shelves, racks, pegboard, and 4 locking casters. Leveling feet help assure stability.

Width	Depth	Height	Surface Thickness	Load Capacity	Includes	Item No.
48"	30"	36"	0.625"	1500 lb.	(10) Ball Lock Bolts, (2) Locating Pins, (2) Inserta Pliers 2.3" Cap., (2) Insert Pliers 4" Cap., (2) Inserta Clamps, (2) Top V-Pads, (2) Side Clamps, (4) Stops 1.5" H, (4) Stops, 2" H, (8) V-Blocks, (4) V-Block Spacers, (8) D-Stop Bars, (12) Magnetic Rest Buttons, (2) Right Angle Brackets 2" H, (2) Right Angle Brackets 4" H	**52WX59**





Miller BuildPro™ Welding Tables WESTWARD SUMNER A Southwire Company

Welding Tables

Steel tables have prewelded legs with removable steel caps, leveling feet, and a lower storage shelf. No. 10N002 has a removable gun holder. No. 494D98 features casters for easy mobility, and includes a 6" X-clamp, side shelf, tool chest, 5" quick-remove vise, and weld curtain, as well as a gun holder, tool holder, and clamp bar. No. 30D255 has 3-position tilt top with guide rails and 2 casters.

Note: Additional welding table accessories are available at Grainger.com®.

Description	Work Surface	Load Capacity	Brand	Mfr. Model	Item No.
Welding Tables					
F-Series ArcStation	29" x 29"	500 lb.	Miller Electric	300837	**10N002**
Welding Table	40" x 24"	600 lb.	Westward	—	**30PA41**
	57" x 27"	1000 lb.	Miller Electric	951793	**494D98**
Nomad Portable	30" x 20"	350 lb.	Buildpro	TS3020	**30D255**
Portable	40" x 24"	600 lb.	Sumner	783980	**19F661**
Accessory					
Inserta Clamp, 8½"W x 4"D, Includes 1 pc. Threaded Adaptor, For Use With BuildPros			Buildpro	UEN5200	**30D360**
Inserta Clamp, 6½"W x 3¼"D, , For Use With BuildPros			Buildpro	UDN5150	**30D359**
Steel Vise and Vise Mount, 7"W x 14"D, Includes Hardware, For Use With Nos. 5FYE0 & 5FYE2			Miller Electric	300611	**5FYE6**
Threaded Adaptor, W x D, Includes Magnet, For Use With BuildPros			Buildpro	TXT5205	**30D356**

WALTER Surface Technologies

SURFOX™ Weld Cleaning Systems

- 120V input



No. 406F85

Electrochemical systems remove heat tint from TIG, spot, and pulsed MIG welded stainless steel, while cleaning and passivating the surface to help fight corrosion. With 2 high-resistant and conductive brushes, including a triangular sleeve brush for MIG welds and large surface areas, and a cylindrical sleeve brush for tight corners and spot welds. Include clamp ring, tungsten insert, ground wire with clamp, and carrying case.

Note: For additional weld cleaning accessories, such as Clamp Rings, Cleaning Pads and Boots go to Grainger.com®.

Trade Name	Amps	Output Voltage	Hose Length	Std.	Item No.
SURFOX MINI	15	12 to 30V AC/DC	—	ASTM A967	**406F85**
SURFOX 205	15	13 to 30V AC/DC	13 ft.	ASTM A968	**406F86**


Fluorescent Dye Penetrants
No. 52YX12

MAGNAFLUX

Welding Penetrants and Inspection Kits

Visible Dye Penetrant Testing—Use this 4-step process to detect stress and fatigue cracks in metal surfaces. Kit No. 3WU63 includes 1 can each of visible penetrant and developer, 2 cans of cleaner/remover, paint marker and hand wipes. Kit No. 3WU62 includes 2 cans each of visible penetrant and developer, 4 cans of cleaner/remover, paint marker, and hand wipes.

Fluorescent Penetrant Testing—Helps find the tiniest cracks in any metal surface. Very sensitive fluorescent dyes comply with most military specifications for fluorescent inspection. Kit No. 52YX12 includes a LED UV light, 1 can each of fluorescent penetrant and developer, 2 cans of cleaner/remover, paint marker, and hand wipes

Magnetic Particle Inspection—Fluorescent and visible magnetic powders, electromagnetic yokes and testing kits provide a nondestructive method to quickly find defects in ferrous metal.

Description	Mfr. Model	Item No.
Visible Dye Penetrant Testing		
SKC-S NDT Cleaner/Remover, 16 oz. Aerosol*	01-5750-77	**3WU61**
SKD-S2 Penetrant Developer, 16 oz. Aerosol*	01-5352-77	**3WU60**
SKL-WP2 Water-Removable Dye Penetrant, 16 oz Aerosol*	SKL-WP2	**35LV23**
SK-416 Solvent-Removeable Penetrant Test Kit, 4 Aerosol cans	SK-416	**3WU63**
SK-816 Solvent-Removeable Penetrant Test Kit, 8 Aerosol cans	SK-816	**3WU62**
Fluorescent Penetrant Testing		
ZL-27A Level 3 High-Sensitivity Penetrant, 16 oz. Aerosol	ZL-27A	**48K596**
ZP-9F Penetrant Developer, 16 oz. Aerosol	ZP-9F	**48K597**
Fluorescent Penetrant Test Kit with EV6000 LED UV Light	EV6000 ZP KIT	**52YX12**
Magnetic Particle Inspection		
14AM Fluorescent Magnetic Particle Liquid, 16 oz. Aerosol	14AM	**40JW42**
WCP-2 White Contrast Paint, 16 oz. Aerosol	01-2250-77	**6WZT5**
7HF Black Visible Magnetic Particles, 16 oz. Aerosol	01-1580-77	**6WZT6**
20B Fluorescent Magnetic Particle Premix, 30 lb./13.6 kg. Pail	01-0179-84	**6WZT7**
#8A Red Visible Magnetic Particle Powder, 10 lb./4.53 kg. Pail	01-1780-69	**35LV22**



Layout Fluid No. 2C928



Layout Fluid Remover and Prep No. 2E001



Layout Fluid Remover No. 1D271



Weldable Primer No. 31MF04

DYKEM Brand | Sprayon | Tempil®

Layout Fluids, Removers And Primers

LAYOUT FLUIDS

DYKEM® STEEL BLUE® and STEEL RED™—Dry quickly, for minimal prep time before scribing. Stay flexible without cracking or chipping. Noncorrosive and toluene-free.

Blue Layout Fluid—Fast-drying, nonflaking, nonetching, and won't peel. Adheres to all metals or glass. EZ Touch® Fanspray nozzle. Dark blue color. Methylene Chloride free.

DYKEM® Hi-Spot Blue—Even-spreading paste shows high spots on bearings. Non-hardening film coating may be left on surfaces to reduce clean up and re-bluing time.

DYKEM® Opaque Staining Colors—Permanent stain provides easy identification of fasteners, parts, inventory, tools, or assemblies. Dries quickly and resists moisture, grease, and oils.

LAYOUT FLUID REMOVERS AND PREP

DYKEM® Remover and Prep—Remove and dilute layout fluids and staining colors. Dries in minutes. Does not contain toluene, 1,1,1-trichloroethane, chlorofluorocarbons, or chlorinated solvents.

Layout Fluid Remover—Specifically formulated to remove layout fluids quickly and efficiently.

WELDABLE PRIMERS

Help eliminate the need to clean metal surfaces before welding. Corrosion- and rustproof primer can be applied to a wide range of metals. Ability to strike welding arc without removal. Max. temp.: 800°F. Dry time: 6 hr. Aluminized finish. No. 31MF04 is a 12 oz. aerosol can. No. 31MF05 comes in 1 gal. can.

Description	Color	Size	Brand	Mfr. Model	Item No.
Layout Fluids					
DYKEM® STEEL BLUE®	Blue	2 oz.	DYKEM	80200	**2C936**
	Blue	4 oz.	DYKEM	80300	**2C945**
	Blue	16 oz.	DYKEM	80000	**2C928**
	Blue	930 mL	DYKEM	80600	**2C967**
DYKEM® STEEL RED™	Red	4 oz.	DYKEM	80396	**2GKW2**
	Red	16-oz. Aerosol	DYKEM	80096	**2C933**
	Red	930 mL	DYKEM	80696	**2GKW3**
Blue Layout Fluid	Blue	12-oz. Aerosol	Sprayon	SC0603000	**1D272**
DYKEM® Hi-Spot Blue	Blue	0.55 oz.	DYKEM	83307	**2GKW4**
DYKEM® Opaque Staining Color	Black	1 gal.	DYKEM	81724	**2GKW8**
	Dark Blue	8-oz. Brush-In-Cap	DYKEM	81478	**2GKW7**
	Dark Blue	1 gal.	DYKEM	81778	**2GKW9**
	Light Blue	1 gal.	DYKEM	81725	**2GKX8**
	Dark Green	1 gal.	DYKEM	81706	**2GKX9**
	Light Green	1 gal.	DYKEM	81708	**2GKY1**
	Orange	8-oz. Brush-In-Cap	DYKEM	81413	**2GKX4**
	Orange	1 gal.	DYKEM	81713	**2GKY2**
	Red	8-oz. Brush-In-Cap	DYKEM	81491	**2GKX5**
	Red	1 gal.	DYKEM	81791	**2GKY3**
	White	8-oz. Brush-In-Cap	DYKEM	81427	**2GKX6**
	White	1 gal.	DYKEM	81727	**2GKY4**
	Yellow	8-oz. Brush-In-Cap	DYKEM	81405	**2GKX7**
	Yellow	1 gal.	DYKEM	81705	**2GKY5**
Layout Fluid Removers and Prep					
DYKEM® Remover and Prep	Clear	16-oz. Aerosol	DYKEM	82038	**2C991**
	Clear	930 ml Bottle	DYKEM	82638	**2E001**
Layout Fluid Remover	Clear	16-oz. Aerosol	Sprayon	SC0606000	**1D271**
Weldable Primer					
Bloxide – Aluminized Aerosol	—	12 oz.	Tempil	24104	**31MF04**
Bloxide – Aluminized Gallon	—	1 gal.	Tempil	24100G	**31MF05**

Arcair CRC LOCTITE WALTER Surface Technologies WELD-AID

Anti-Spatter

Nonflammable formulas help keep tools and workpieces clean for reduced downtime. Paint over without a separate cleaning step.

Description	Container	Item No.
Arcair		
Tip Dipping®, Gel	Jar, 16 oz.	**2XRN8**
CRC		
Aerosol®, Liquid	Aerosol Can, 16 oz.	**2F137**
Loctite		
SF 7900™, Lubricant	Aerosol Can, 9.5 oz./269g	**29FX35**
Walter Surface Technologies		
Ceramic Chemical Compound	Aerosol Can, 13.5 oz.	**52HR21**
Water Based	Drum, 55 gal.	**49YK13**
Weld Aid		
HD Nozzle-Dip® Gel, Water Based	Plastic Jar, 1 pt.	**24A412**
	Plastic Jar, 32 oz.	**24A413**
Nozzle-Kleen® #2, Solvent	Aerosol Can, 16 oz.	**24A407**
Nozzle-Kleen® HD, Solvent	Aerosol Can, 16 oz.	**24A406**
Weld Kleen® 350® Spray, Water Based	Aerosol Can, 16 oz.	**24A417**
	Plastic Container, 32 oz.	**24A418**
	Plastic Container, 1 gal.	**24A419**
	Plastic Container, 5 gal.	**24A420**
	Metal Drum, 55 gal.	**24A421**
Weld-Kleen® HD, Solvent	Aerosol Can, 20 oz.	**24A416**



No. 52HR21



No. 24A418

Brite Zinc Galvanizing Compounds

WELD-AID

Paintable, rust-free coatings match the look of hot-dipped galvanizing. Pass ASTM A780 inspection. Galvanized bare steel can be unpainted. Dry time: 15 to 30 minutes. Bare Steel formula is 95% zinc-rich bare steel for maximum corrosion protection and mechanical durability. Nos. 24A431 and 24A433 have nonclogging aerosol spray head.

For Use With	Size	Coverage	Item No.
Galvanized Material	16 oz.	26 sq. ft.	**24A431**
	1 gal.	570 sq. ft.	**24A432**
Bare Steel	16 oz.	26 sq. ft.	**24A433**
	1 gal.	644 sq. ft.	**24A434**



No. 24A431

Markal Tempil


Temperature Stick No. G6576

Temperature Sticks

- Accuracy: ± 1%

Temperature indicators mark surfaces with a chalky and dull marking that changes to see-through and glossy at the rated temperature. Can be used in in annealing, forging, welding, bonding, forming, and similar applications. Include nonslip gravity-advance holder.

▶CHOOSE: Temp. Range	Tip Size	Brand	Item No.
Temperature Sticks, Individual			
150°F, 200°F, 250°F, 300°F, 350°F, 400°F	⅜"	Markal	**G6576**
100°F, 125°F, 175°F, 213°F, 225°F, 275°F, 325°F, 375°F, 425°F, 450°F, 500°F, 550°F, 600°F, 650°F, 700°F	½"	Markal	**G6576**
100°F, 150°F, 175°F, 213°F, 250°F, 275°F, 300°F, 325°F, 350°F, 375°F, 425°F, 450°F, 600°F, 650°F, 700°F, 800°F, 212°F, 248°F, 302°F, 392°F	⅜"	Tempil	**J4714**


Red-Riter®


Flat Soapstones No. 5KH40

Markal UNIWELD SUPPLIER DIVERSITY

Welding Pencil, Markers & Soapstones

Welding Pencil And Markers— Use as an alternative to soapstone to create torch-resistant markings that will not rub, burn, or blow off. Reflective silver and red colors improve visibility when cutting or welding.

Soapstones—Produce highly visible layout lines on metal or concrete. Nos. 5KH41 and 5KH43 include holders with built-in sharpener and pocket clip.

Description	Brand	Item No.
Welding Pencil		
Red-Riter®, 1/16" Point Tip	Markal	**32PK95**
Welding Markers		
Silver-Streak®, 1/8" Round Tip	Markal	**1XEG4**
Soapstones		
Flat Soapstone, Pk. of 144	Uniweld	**5KH40**
Flat Soapstone, Pk. of 144	Markal	**2F900**
Round Soapstone, Pk. of 144	Uniweld	**5KH42**
Soapstone Kits		
6-Pc. Flat Soapstone Kit with Holder	Uniweld	**5KH41**
6-Pc. Round Soapstone Kit with Holder	Uniweld	**5KH43**
Soapstone Holder		
Soapstone Holder, Flat	Markal	**2F902**


Red Felt Pads No. 24A429


Nozzle-Kleen® Tools

Spatter Cleaning and Wire Lubrication Pads and Tools

WELD-AID

Lube-Matic®—Engineered to reduce tip and liner wear, burnback, and wire jams, and to promote smoother arc feed. Black felt pads are for all types of steel wire; pretreated with Lube-Matic liquid. Red felt pads are for cleaning all wire; excellent for aluminum. Liquid cleaner/lubricant helps reduce wire drag 60%.

Nozzle-Kleen®—Remove spatter from nozzles, tips, and diffusers, and clean torches without disassembly.

Description	Size	Item No.
Lube-Matic® Felt Pads		
Black, for Lubricating Steel Wire	Pk. of 6	**24A428**
Red, for Cleaning WIre	Pk. of 6	**24A429**
Combo Pack - 1 Black, 1 Red	Pk. of 2	**24A430**
Lube-Matic® Liquid		
Cleaner/Lubricant	4 oz. Can	**24A426**
Nozzle Kleen® Welding Tools		
⅜" Nozzle	¼" Tip Cleaner	**24A401**
½" Nozzle	5/16" Tip Cleaner	**24A402**
⅝" Nozzle	5/16" Tip Cleaner	**24A403**
	⅜" Tip Cleaner	**24A404**
¾" Nozzle	¾" Tip Cleaner	**24A405**


No. 30AA61

Speciality Welding Regulators

HARRIS Miller UNIWELD SUPPLIER DIVERSITY

Gas Service	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Gauge Size	Brand	Mfr. Model	Item No.
Air	0 to 125 psi	CGA-590	¼" MNPT	2"	Harris	KH1118	**30AA63**
Argon, Helium, Nitrogen	0 to 1500 psi	CGA-580	¼" NPT x ¼" Stainless Steel Tube Fitting	2½"	Harris	KH1114	**30AA59**
	0 to 2000 psi	CGA-580	⅛" SST Tube Fitting	2½"	Miller Electric	825-8109	**45PW93**
	0 to 3000 psi	CGA-680	¼" NPT x ¼" Stainless Steel Tube Fitting	2½"	Harris	KH1116	**30AA61**
Carbon Dioxide	0 to 125 psi		¼" FNPT	2½"	Harris	7051253201	**30AA78**
Nitrogen	20 to 400 psi	CGA-580	¼" Flare M	2"	Uniweld	RHP400	**39DM33**
	50 to 800 psi	CGA-580	¼" Flare M	2"	Uniweld	RHP800	**39DM34**
	200 to 3000 psi	CGA-680	¼" NPTF	2"	Uniweld	RHP3680	**39DM35**
Non-Corrosive Inert	0 to 1000 psi	CGA-580	¼" FNPT	2½"	Miller Electric	824-0009	**2CZV1**
	0 to 2000 psi	CGA-580	¼" FNPT	2½"	Miller Electric	825-0009	**2CZV2**
	0 to 4000 psi	CGA-580	¼" FNPT	2½"	Miller Electric	826-0009	**2CZV3**



No. 54RZ86



No. 5EFX1

Welding Regulators

- Single stage

Victor®—Durable forged brass body and cap. Feature stem-type seat mechanism for accurate gas flow, and Delrin® cap bushing. Edge Series regulators have high contrast graphics, built-in gauge guard, and 5-yr. warranty.

Miller—Filtered Sure Seat™ filtered seats prevent contamination from entering the seating area, reducing repair costs and downtime. Made with a rugged forged brass body, nickel-plated bonnet, and neoprene composite diaphragm.

Harris—Feature an encapsulated 1-pc. PTFE capsule seat assembly with 10-micron filter. No. 5KZ42 has a forged brass body and cap, along with a stem-type seat mechanism, stainless steel diaphragm, and Delrin® insert bushing.

TurboTorch—Check pressure, test, and purge lines prior to brazing to protect joints against oxidation. Easy-to-read 2" gauges with forged brass body and housing cap. Gauges are marked with dual graduations, psig and kPa.

Uniweld®—Includes a polished chrome bonnet, easy-to-read 2" gauge, neoprene diaphragm, and heavy-duty stem-type seat-and-nozzle assembly.

Gas Service	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Gauge Size	Series	Brand	Mfr. Model	Item No.
Acetylene	2 to 15 psi	CGA-300	9/16"-18 M LH	2"	Professional SR260A-300	Victor	0781-0085	5KJ66
		CGA-510	9/16"-18 M LH	2"	Professional SR260A-510	Victor	0781-0087	5KJ67
		CGA-510	9/16"-18 M LH	2"	ESS3	Victor	0781-3628	482W16
		CGA-510	9/16"-18 M LH	2½"	Edge 2.0	Victor	0781-3602	54RZ85
		CGA 300	9/16"-18 M LH	2½"	Edge 2.0	Victor	0781-3603	54RZ86
		CGA-300	9/16"-18 M LH	2½"	Professional SR460A-300	Victor	0781-0583	20UK05
		CGA-510	9/16"-18 M LH	2½"	Professional SR460A-510	Victor	0781-0584	5KJ71
	15 psi	CGA-200	9/16"-18 LH B	2"	30	Miller Electric	30-15-200	5EFW6
		CGA-510	9/16"-18 LH B	2"	30	Miller Electric	30-15-510	5JPH5
Acetylene, Oxygen	100 psi Oxygen/15 psi Fuel	CGA-540 Oxygen/CGA-300 Acetylene	9/16"-18 RH Oxygen/9/16"-18 LH Fuel	2"	30	Miller Electric	HTP5	3LVR3
Argon, Helium, Nitrogen	0 to 125 psi	CGA-580	9/16"-18 M RH	2½"	425	Harris	425-125-580	5KZ46
	0 to 200 psi	CGA-580	9/16"-18 M RH	2½"	425	Harris	425-200-580	5KZ47
	0 to 500 psi	CGA-580	¼" SAE 45° Flared	2½"	25GX	Harris	25GX-500-580	5KZ42
	10 to 200 psi	CGA-580	¼"-37° Flared	2"	TPR250-580	Victor	0781-9134	20UK20
	100 to 1500 psi	CGA-580	¼" Swagelok	2½"	Professional SR4G-580	Victor	0781-1428	20UK09
	200 to 3000 psi	CGA-580	¼" Swagelok	2½"	Professional SR4J-580	Victor	0781-1448	20UK11
Argon, Nitrogen	150 psi	CGA-580	5/8"-18 RH Internal	2"	30	Miller Electric	30-150-580	5EFW8
Hydrogen, Methane	100 psi	CGA-350	9/16"-18 LH B	2"	30	Miller Electric	30-100-350	5EFX0
Inert	5 to 125 psi	CGA-580	5/8"-18 F RH	2½"	Professional SR450D-580	Victor	0781-0528	5KJ69
	500 psi	CGA-580	¼"-37° Flared	2"	TPR250-500-580	Victor	0781-9135	5KJ83
Liquefied Propane	50 psi	CGA-510	9/16"-18 LH B	2"	30	Miller Electric	30-50-510	5EFW7
Nitrogen	2 to 250 psi	CGA-580	¼"-37° Flared	2"	245-02P	TurboTorch	0386-0813	2CZH8
	2 to 500 psi	CGA-580	¼"-37° Flared	2"	245-03P	TurboTorch	0386-0814	2CZH9
	275 psi	CGA-580	5/8"-18 RH Internal	2½"	40	Miller Electric	40-275-580	5JPH2
	450 psi	CGA-580	7/16"-20 Flared	2"	30	Miller Electric	30-450-580	5EFX1
Oxygen	0 to 125 psi	CGA-540	9/16"-18 M RH	2½"	425	Harris	425-125-540	5KZ43
	4 to 80 psi	CGA-540	9/16"-18 M RH	2"	Professional SR250C-540	Victor	0781-0027	5KJ63
	5 to 125 psi	CGA-540	9/16"-18 M RH	2"	Professional SR250D-540	Victor	0781-0043	20UK01
		CGA-540	9/16"-18 M RH	2"	ESS3	Victor	0781-3627	482W15
		CGA-540	9/16"-18 M RH	2½"	Professional SR460A-510	Victor	0781-0527	5KJ68
		CGA-540	3/16"-18 M RH B	2"	RUH	Uniweld	RUH8210	39DM36
	5 to 150 psi	CGA-540	9/16"-18 M RH	2½"	Edge 2.0	Victor	0781-3601	54RZ84
	20 psi	CGA-540	9/16"-18 RH B	2"	30	Miller Electric	30-20-540	5JPH4
	100 psi	CGA-540	9/16"-18 RH B	2"	30	Miller Electric	30-100-540	5JPH3
	175 psi	CGA-540	9/16"-18 RH B	2"	40	Miller Electric	40-175-540	5JPG5
	200 to 3000 psi	CGA-540	¼" Swagelok	2½"	Professional SR4J-540	Victor	0781-1445	20UK10

High Purity Regulators

- 2½" gauge
- 2" body dia.

Encapsulated filtered seat design helps prevent contaminants from entering seating area, while the nickel-plated finish with brass/stainless steel barstock construction prevents outgasing. Stainless steel diaphragm. Built-in safety relief valve. Two-stage models provide precise pressure control of carrier gases or calibration mixtures used in chromatography or for thermal conductivity.

Gas Service	Inlet Connec.	Outlet Connec.	Supply Pressure Gauge	Delivery Pressure Range	Item No.
Single Stage-Stage, Brass Body					
Inert, Non-Corrosive	¼" FNPT	¼" FNPT	—	100 psi	6PHG8
Inert, Argon, Helium, Nitrogen	CGA-580	⅛" Brass Tube Fitting	4000 psi	0 to 15 psi	3CEV5
		⅛" Brass Tube Fitting	4000 psi	0 to 150 psi	3CEV6
Two Stage-Stage, Brass Body					
CO2	CGA-320	⅛" Brass Tube Fitting	4000 psi	0 to 150 psi	3EKZ9
Hydrogen	CGA-350	⅛" Brass Tube Fitting	4000 psi	0 to 15 psi	3ELA1
		⅛" Brass Tube Fitting	4000 psi	0 to 150 psi	3ELA2
Inert, Argon, Helium, Nitrogen	CGA-580	⅛" Brass Tube Fitting	4000 psi	0 to 15 psi	3ELA3
		⅛" Brass Tube Fitting	4000 psi	0 to 150 psi	3ELA4
Two Stage-Stage, 316 Stainless Steel Body					
Corrosive	CGA-330	¼" FNPT x ¼" Diaphragm Valve with ¼" Tube Fitting	4000 psi	0 to 100 psi	3ELC1



Single-Stage
No. 3CEV5

Flow Gauge and Flowmeter Regulators

Use for shielding gas with argon or CO_2 in MIG and TIG welding. Flow gauge regulators are for accurate measurement of gas flow. Flowmeter regulators incorporate flowmeter and regulator into one compact unit.

Gas Service	Delivery	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Supply Pressure Gauge	Brand	Item No.
Flow Gauge Regulator, Single Stage-Stage							
Argon	0 to 50 scfh	50 cfh	CGA-580	5/8"-18 RH Internal	4000 psi	Miller Electric	5EFY1
		50 cfh	CGA-580	5/8"-18 RH Internal	4000 psi	Miller Electric	5EFY2 *
CO2		50 cfh	CGA-320	5/8"-18 RH Internal	4000 psi	Miller Electric	5EFY3
Flowmeter, Single Stage-Stage							
Argon, Carbon Dioxide, Helium	50 psi	50 psi	¼" MNPT	5/8"-18 RH Internal	—	Miller Electric	5EFZ0
Flowmeter Regulator, Dual, CGA Outlet 5/8"-18 F RH							
Argon, Helium	0 to 45 cfh Ar/0 to 140 cfh He	0 to 4000 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Harris	5KZ68
Flowmeter Regulator, Single-Stage							
Argon, Carbon Dioxide	Up to 50 cfh Ar and 38 cfh CO2	80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	20UK17 †
Flowmeter Regulator, Single Stage-Stage							
Argon, Carbon Dioxide	10 to 50 cfh	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	5KJ73
	Up to 50 cfh Ar and 38 cfh CO2	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	20UJ95
		25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	20UK16 †
		80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	20UK14
		80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	20UK15
Argon, Carbon Dioxide, Helium	0 to 50 scfh CO2, 0 to 160 scfh He, 0 to 60 scfh Ar/CO2 Mix	50 psi	CGA-580	5/8"-18 RH Internal	0 to 4000 psi	Miller Electric	5EFX9
		50 psi	CGA-580	5/8"-18 RH Internal	0 to 4000 psi	Miller Electric	5EFY0 *
	10 to 50 cfh Ar/20 to 150 cfh He	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	5KJ76
CO2	10 to 38 cfh	80 psi	CGA-320	5/8"-18 F RH	0 to 4000 psi	Victor	5KJ74

** Includes 6-ft. hose with inert hose connections. † Includes 10-ft. hose.*



Flow Gauge Regulator
No. 5EFY1



No. 20UK16



Heavy-Duty Series
No. 22UM02



The Wurks®
No. 3NY90



Performer Edge™
Series 2.0
No. 482W08

Cutting, Welding, and Heating Outfits

Medium and heavy duty outfits feature in-tip gas mixing technology and include torch mount flashback arrestors. Tag-A-Long™, Toughcut™, Versa-Torch™, and The Wurks® outfits include: torch handle, cutting attachment, cutting and welding tip, oxygen and acetylene regulators, twin welding hose, goggles, and striker.

Note: For more Consumables visit Grainger.com®.

CUTTING, WELDING, HEATING

Heavy-Duty—Combo outfits cut up to 8" and weld up to ½" with optional tips.

Journeyman®—Include cutting tip, heating and welding nozzles, ¼" x 20-ft. T-grade hose, goggles, striker, and tip cleaner. Nos. 54RZ72 and 54RZ75 have a CGA 300 connection, which uses a right-hand female thread on the regulator. Nos. 54RZ73 and 54RZ76 have a CGA 510 connection, which uses a left-hand male thread on the regulator.

Mastar® Maintenance—Lightweight, portable oxygen/acetylene outfits include a thruster air/acetylene tip and air/fuel adapter to convert welding handle for soldering with acetylene only, and eliminate use of oxygen. All outfits include industrial-grade regulators with easy-to-adjust T-handles, WH550 rear valve welding handle, welding tip, carrying stand or rolling cart for MC or B and R or R40 tanks (tanks not included), 12½-ft. twin hose, flint lighter, and goggles.

Medium-Duty—Cut up to 6" and weld up to ⅜" with optional tips.

The Wurks®—12-pc. kit for welding, brazing, cutting, and soldering tool box. All fuel gases are mixed in tip for maximum safety. Includes tip cleaner set with 12 sizes of cleaning wires and file and all-leather welding gloves. Packed in The Wurks Box with tray.

Toughcut™—Great for many applications, including farm, automotive, light fabrication, and hobby. Cut up to ⅝" and 6" with optional tips. Weld up to ⅛" and ⅜" with optional tips. Include reverse flow check valves.

Versa-Torch™—Versatile system has nickel-plated torch handle, cutting attachment, heat tip and carrier, and reverse flow check valve. Cuts up to ⅜" and 3" with optional tips. Welds up to ⅛".

CUTTING, WELDING

Journeyman® 450—Includes cutting tips and welding nozzle.

Performer Edge™ Series 2.0—Heavy-duty outfits cut up to 6" and weld up to ¼" with accessories. They include 2 regulators, cutting attachment, welding handle, welding nozzle, heating nozzle, tip cleaners, striker, T-grade hose, and goggles.

Tag-A-Long™—Portable and lightweight outfits feature Series 30 regulators and reverse flow check valves. Cut up to ⅜" and 6" with optional tips. Weld up to ⅛" and ½" with optional tips. No. 6GJG1 also includes oxygen and fuel regulator, oxygen and acetylene cylinders, and lighter. Acetylene regulator not included.

CUTTING, HEATING

Heavy-Duty Series—Torch and hand torch outfits cut up to 12" with optional tips.

Description	Torch Handle	Cutting Attachment	Welding Nozzles	Cutting Tips	Pressure Regulator	Brand	Mfr. Model	Item No.
Cutting, Welding, Heating								
Heavy-Duty Series								
Heavy Duty Torch Outfit	—	SC229	—	SC12-2	40-175-540S Oxygen, CGA540 Oxygen, 40-15-510S Fuel, CGA 510 Fuel, 40-15-300S Fuel, CGA 300 Fuel	Miller Electric	HBS-H300S	**22UM04**
Heavy Duty Hand Torch Toolbox Outfit		SC229	—	SC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	HBAS-30300	**22UM08**
		SC229	—	SC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	HBAS-30510	**22UM07**
Heavy Duty Combination Torch Outfit	WH200A	SC209	SW205	SC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	HBA-30300	**22UM02**
Gas Welding Outfit		SC209	SW205	SC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	HBA-30510	**22UM01**
Combo Torch and Tip Kit	WH100	MC509	MW203	MC12-1	—	Miller Electric	16205	**22UM09**
Journeyman								
Cutting Outfit	315FC+	CA2460+	1, 3, 5	1 Series	ESS42-15-300 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2100	**54RZ72**
		CA2460+	1, 3, 5	1 Series	ESS42-15-510 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2101	**54RZ73**
Journeyman II								
Cutting Outfit	315FC+	CA2460+	2	1 Series	ESS42-15-300 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2110	**54RZ75**
		CA2460+	2	1 Series	ESS42-15-510 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2111	**54RZ76**
Mastar® Maintenance								
For B Acetylene Tank and R or R40 Oxygen Tank, without Tanks**	WH550	CA550	Type 17#2	5-101-0	RSO/RSB2	Uniweld	KLT550-5TR	**5KH27**
For MC/R, without Tanks**		CA550	Type 17#2	5-101-0	RSO/RSMC2	Uniweld	KLT550-4P	**5KH25**
With MC/R Tanks*		CA550	Type 17#2	5-101-0	RSO/RSMC2	Uniweld	KLT550-4P-T	**5KH26**
Medium-Duty Series								
Medium Duty Combination Outfit	WH100	MC509	MW205	MC12-0, MC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	MBA-30510	**22UM11**
Medium Duty Combination Torch LP Combination Outfit		MC509	—	MC40-1	30-100-540, 30-50-510	Miller Electric	MBA-30510LP	**22UM12**
Medium Duty Combination Outfit		MC509	MW205	MC12-0, MC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	MBA-30300	**22UM14**
Gas Welding Outfit	WH200A	SC209	SW203	SC12-1	—	Miller Electric	16206	**22UL98**
The Wurks®								
Without Tanks	WH370	CA370	Type 370#3	144#1	MR8210/MR8211	Uniweld	WURKS-A	**3NY90**
Toughcut™								
Medium Duty Outfit	CW5A	CC509P	MW205	MC12-1	30-100-540 Oxygen, 30-15-510 Fuel	Miller Electric	MB54A-510	**2CZK2**
		CC509P	MW205	MC12-1	30-100-540 Oxygen, CGA 540 Oxygen, 30-15-300 Fuel, CGA 300 Fuel, 30-15-510 Fuel, CGA 510 Fuel	Miller Electric	MB54A-300	**2CZK3**
Versa-Torch™								
Refrigeration and A/C Outfit	AW1A	AC309	LT103, LT104, LT106	MC12-00	30-100-540, 30-15-200	Miller Electric	VT-4T	**2CZK5**
Cutting, Welding								
Journeyman 450								
Cutting and Welding Outfit	315FC	CA2460	2	1 Series	SR450-540, SR460-510	Victor	0384-0807	**20UJ92**
Performer Edge™ Series 2.0								
Gas Welding Outfit	100FC	CA1350	(W-1) 0	3 Series	ESS3-125-540, ESS3-15-510	Victor	0384-2125	**482W08**
		CA1350	(W-1) 0	3 Series	ESS3-125-540, ESS3-15-300	Victor	0384-2126	**482W09**
Tag-A-Long™								
Welding and Cutting Tote Outfit W/Tanks	CW5A	CC509P	MW203	MC12-0	30-100-540, 30-15-200	Miller Electric	TL-500	**2CZK4**
		CC509P	MW203	MC12-0	30-100-540 Oxygen, 30-15-200 Fuel	Miller Electric	TL-550	**6GJG1**
Cutting, Heating								
Heavy-Duty Series								
Heavy Duty Combination Torch LP Outfit	WH200A	SC209	—	SC40-1	30-100-540, 30-15-510	Miller Electric	HBA-30510LP	**22UM05**
Accessories								
Circle Cutting Guide								
Cuts from ⅜" to 12" Holes						Miller Electric	16229	**6PHD0**
Empty Fuel Cylinder								
Fuel Cylinder, Oxygen, 20 cu-ft.						Uniweld	R	**2CZW9**
Fuel Cylinder, Acetylene, 10 cu-ft.						Uniweld	MC	**2CZW7**
GASAVER™								
Acetylene/Oxygen Gas Saver						Miller Electric	WDW101	**2CZN4**
Torch Valve For Use With Low Pressure Gas and Oxygen						Miller Electric	WDW103	**6PHK1**

Includes premium tubing cutter. **Includes mini tubing cutter.

TURBOTORCH

Portable Totes

Designed for HVAC and light fabrication applications, these portable outfits feature a molded, plastic carrying case with an ergonomic handle and balanced design for easy carrying. The built-in storage compartments help you keep your consumables and other accessories right at-hand. All include Oxygen regulator, fuel regulator, 12.5-ft. dual 3/16" hose, goggles, check valve, striker, and tank key.

Note: For the full contents of each outfit, go to Grainger.com® and search by Item No.

Trade Name	Torch Handle	Cutting Attachment	Welding Nozzles	Cutting Tips	Gas Tank Capacity	Pressure Regulator	Mfr. Model	Item No.
G150-J-P	103-01FP	CA1260	2-W-J, 0-W-J	3 Series	—	R150-540, R150-200	0384-0945	49JP39
G150-J-PT	103-01FP	CA1260	2-W-J, 0-W-J	3 Series	10 cu. ft.		0384-0946	49JP40
G150-J-CP	103-01FP	CA1260	2-W-J, 0-W-J	3 Series	—		0384-0947	49JP41
G150-J-CPT	103-01FP	CA1260	2-W-J, 0-W-J	3 Series	10 cu. ft.		0384-0948	49JP42
G150-100-CP	100FC	CA1350	1-W-1	3 Series	—		0384-0943	49JP37
	100FC	CA1350	1-W-1	3 Series	10 cu. ft.		0384-0944	49JP38



G150-J-P
No. 49JP39



G150-J-CPT
No. 49JP42

Miller UNIWELD SUPPLIER DIVERSITY

Brazing Outfits

QUICKBRAZE®

- Concentrated 6000°F flame

Provides pinpoint heat with precise flame control to repair leaks in sealed systems and other HVAC applications. Brazes from 1/2" to 1 3/8".

LITTLE TORCH™

Torches produce controlled, stable flames—from pinhead-small to large enough to silver-solder large objects—that are hot enough to melt commercially weldable metals, glass, and ceramics. Include an 8-ft. hose. Caddy Outfit No. 6GJG5 also includes a cylinder/torch caddy, acetylene and oxygen regulators, a pair of reverse flow check valves, an oxygen cylinder, and an acetylene cylinder.

CAP'N HOOK®

Lightweight, portable oxygen/acetylene outfits feature MTF #5 Cap'n Hook 5-flame tip. Complete with 71 front-valve welding handle, welding tip, oxygen and acetylene regulators, carrying stand, hose, flint lighter, and goggles. Nos. 22UL96 and 22UL97 include cutting attachment and cutting tip.

ACCESSORIES

Cap'n Hook Welding/Brazing Tips

Heat copper tubing to 5600°F with pinpoint accuracy. Fit Uniweld 71 and WH550 welding handles. 100% wrap-around heat.

Cap'n Hook Torch Kit

Instantly upgrades torch kit for micro maintenance work. Includes lightweight 71 welding handle for "A" hose connections, Cap'n Hook 5-flame tip which provides even distribution of heat for various tube brazing applications, and 2 high-performance Micro 6000 tips for pinpoint accuracy in tight places: MTW #2 for brazing or welding, and MTT flexible twin tip for brazing return ends without overheating adjacent brazed joints.

Flame Barrier

Provides a protective barrier between flammable surfaces and open flames. Has structural integrity up to 2300°F and a melting temperature of 3200°F.

Tuning Fork™ Tip

Helps remove and replace heat pump reversing valves without destroying original copper tube and fittings. Heats all fittings at once for easy removal. Fits Uniweld 71 and WH550 welding handles.



No. 2CZJ5



No. 5KH19

CAP'N HOOK® TIP PERFORMANCE CHART

Item No.	Acetylene Cons. SCFH	Oxygen Pressure PSIG	Acetylene Pressure PSIG	Brazing Copper Tubing
20K961	4 to 6	8	5	1"
20K962	5 to 9	10	7	2"
20K963	8 to 14	18	12	3"

Torch Handle	Welding Nozzles	Pressure Regulator	Brand	Mfr. Model	Item No.
Quickbraze®					
11-1116	—	—	Miller Electric	23-5005A	2CZJ5
Little Torch					
11-1101C Torch	12-1401-03 to -07	—	Miller Electric	23-1001D	2CZK8
	12-1401-03 to 07	30-20-540 Oxygen, 30-15-200 Acetylene	Miller Electric	23-1004A	6GJG5
Cap'n Hook®					
71	Type 17#2	RO/RMC2	Uniweld	K22P	5KH19
		RO/RMC2	Uniweld	KL22P	22UL97
		RO/RMC2	Uniweld	K22P-T	5KH20
		RO/RMC2	Uniweld	KL22P-T	22UL96
Accessories					
Cap'n Hook, Brazing Tip Size 5			Uniweld	MTF-5	20K961
Cap'n Hook, Brazing Tip Size 9			Uniweld	MTF-9	20K962
Cap'n Hook, Brazing Tip Size 17			Uniweld	MTF-17	20K963
Cap'n Hook Torch Kit			Uniweld	71MHK	5TT88
Flame Barrier Pad (12 x 12")			Uniweld	FB12	5KH12
Tuning Fork 8-Flame Tip, Size 17			Uniweld	TYPE17TFT	45EV14
3-Tip Set; Includes MTT, MTW#2, and MTR Tips			Uniweld	KMT	5KH28

GA GRAINGER APPROVED

Spiral Tip Cleaners and Flint Lighters

High-quality, spiral tip cleaners quickly and easily clean out tip orifices. Rustproof, wires are stainless steel. Aluminum case features locked knot that secures small wires and includes hardened steel file. Tip cleaner data and drill reference size stamped on back of case. Flint Lighters safely and quickly ignite tips on torches and cutting attachments. Flints can be easily replaced.

Description	Item No.
Spiral Tip Cleaners	
13-Pc. Standard Set, 2 1/2" Length	2CYY5
13-Pc. Extra Long Set, 4 1/2" Length	2CYX6
21-Pc. Master Set, 2 1/2" Length	2CYX5
Flint Lighters	
Single Flint Lighter, Includes 5 Flint Renewals	2CYX8
Triple Flint Lighter, Includes 1 Flint Renewal	2CYY2
Single Flint Lighter, Includes Flint Renewals and Standard Tip Cleaner	2CYX7
Triple Flint Lighter, Includes Flint Renewals and Standard Tip Cleaner	2CYY1
Replacement Flints	
Single Flint Renewal, Replace Flint In Single Striker (2) Pkg. of 5	2CYX9
Triple Flint Renewal, Replaces Flint In Triple Striker	2CYY3



21-Pc. Spiral Tip Cleaner
No. 2CYX5



Triple Flint Lighter
No. 2CYY2



Gas Welding Rods
No. 23XM49



Brazing Alloy Rods
No. 3THE4



Brazing Wire Kit
No. 3THE8

WESTWARD BERNZOMATIC HOBART FILLER METALS All-State HARRIS

Oxy-Fuel Welding Rods and Brazing Alloys

AWS Classification	Material	Dia.	Container Size	Container Type	Brand	Item No.	Pkg. Qty.
Gas Welding Rods							
R45	Carbon Steel	1/16"	1 lb.	Tube	Westward	**41R243**	1
	Carbon Steel	1/16"	10 lb.	Box	Westward	**23XM49**	1
	Carbon Steel	1/16"	10 lb.	Box	Westward	**41R244**	1
	Carbon Steel	3/32"	1 lb.	Tube	Westward	**41R245**	1
	Carbon Steel	3/32"	10 lb.	Box	Westward	**23XM50**	1
	Carbon Steel	1/8"	1 lb.	Tube	Westward	**41R247**	1
	Carbon Steel	1/8"	10 lb.	Box	Westward	**41R248**	1
	Carbon Steel	5/32"	10 lb.	Box	Westward	**23XM52**	1
R60	Carbon Steel	1/16"	1 lb.	Tube	Westward	**41R249**	1
	Carbon Steel	1/16"	10 lb.	Box	Westward	**23XM53**	1
	Carbon Steel	1/16"	10 lb.	Box	Westward	**41R250**	1
	Carbon Steel	3/32"	1 lb.	Tube	Westward	**41R251**	1
	Carbon Steel	3/32"	10 lb.	Box	Westward	**23XM54**	1
	Carbon Steel	3/32"	10 lb.	Box	Westward	**41R252**	1
	Carbon Steel	1/8"	1 lb.	Tube	Westward	**41R253**	1
	Carbon Steel	1/8"	10 lb.	Box	Westward	**23XM55**	1
	Carbon Steel	5/32"	10 lb.	Box	Westward	**23XM56**	1

Description	Dia. (in.)	L (in.)	Brazing Range (°F)	Container	Brand	Item No.	Pkg. Qty.
Brazing Alloy Rods							
Bronze	3/32	18	1595 to 1620	Box	Bernzomatic	**3AC22**	25
Bronze Alloy	1/8	36	1595 to 1630	Box	Hobart	**6ETP3**	1
Nickel Silver Alloy	1/8	36	1630 to 1665	Box	Hobart	**6ETP6**	1
Low Fuming Bronze	1/8	36	1330 to 1550	Tube	Westward	**30AC75**	20
	1/8	36	1330 to 1550	Box	Westward	**30AC78**	33
Copper, 0% Phosphorus	1/8	18	1310 to 1500	Box	Hobart	**6ETP0**	1
Copper, BCuP-5	1/8	18	1300 to 1500	Tube	All-State	**400G83**	1
Copper, 0% Phosphorus	1/8	20	1310 to 1475	Tube	Harris	**3THE4**	7
Copper, 5% Phosphorus	1/8	18	1190 to 1500	Box	Hobart	**6ETP1**	1
Copper, 15% Phosphorus	1/8	18	1190 to 1500	Box	Hobart	**6ETP2**	1
Copper Phosphorous	1/8	18	1310 to 1460	—	Bernzomatic	**3AC23**	1
Dynaflow	1/8	20	1190 to 1465	Tube	Harris	**3THE2**	7
Nickel/Silver	1/8	36	1720 to 1800	Tube	Westward	**30AC76**	22
	3/32	36	1720 to 1800	Tube	Westward	**30AC77**	40
Nickel Silver Alloy	1/8	36	1665 to 1680	Box	Hobart	**6ETP4**	1
	3/32	36	1665 to 1680	Box	Hobart	**6ETP5**	1
0% Silver	1/8 x 1/2	20	1345 to 1500	Tube	Westward	**30AC72**	28
5% Silver	1/8 x 1/2	20	1350 to 1550	Tube	Westward	**30AC73**	28
15 % Silver	1/8 x 0.050	20	1190 to 1500	Tube	Westward	**30AC74**	28
Stay-Silv-5	1/8	20	1190 to 1500	Tube	Harris	**3THF9**	7
Stay-Silv-15	1/8	20	1190 to 1480	Tube	Harris	**3THF8**	7
Safety-Silv-45	1/16	18	1225 to 1370	Tube	Harris	**3THE6**	5
	3/32	18	1225 to 1370	Tube	Harris	**3THE7**	3
Safety-Silv-45 Flux Coated	1/16	18	1225 to 1370	Tube	Harris	**3THE5**	3
Safety-Silv-56	1/16	18	1145 to 1205	Tube	Harris	**3THF1**	5
Safety-Silv-56 Flux Coated	1/16	18	1145 to 1205	Tube	Harris	**3THE9**	3
Brazing Wire Kits (1-oz. Wire, 1.75-oz. Flux)							
Safety-Silv-45	1/16	—	1225 to 1370	Box	Harris	**3THE8**	1
Safety-Silv-56	1/16	—	1145 to 1205	Box	Harris	**3THF2**	1



No. 2CZN8

Miller

Proportional Two-Gas Mixers

- Each serves up to 5 welding stations

These easy-to-use proportional gas mixers let you accurately blend your own custom TIG and MIG weld shielding gas mixtures (±2% of scale) for peak performance and optimal welds in a variety of different welding applications. Save money on stocking expensive premixed gases and eliminate stratification. Mixers also help you reduce set-up time by eliminating the need to change cylinders, flow control devices, or hoses when changing from one range of mixed gas to another. All models have a convenient chart on top which shows proper settings for argon/oxygen and CO_2/oxygen; No. 2CZN9 also shows settings for argon/CO_2. No. 2CZP1 shows all the same settings as No. 2CZN9 (except for CO_2/oxygen), and also for argon/helium and nitrogen/hydrogen.

Gas Type	Flow Rate	Inlet/Outlet Connec.	Outlet Pressure Without Flow PSIG/Bar	Adjustment % Range	Item No.
Argon and CO_2	10 to 180 SCFH, 4.8 to 85.7 LPM	5/8"-18 RH Internal	45/3.1	0 to 100/100 to 0	**2CZN8**
Argon and Helium				0 to 100/100 to 0	**2CZN9**
Argon and Hydrogen				50 to 100/50 to 0	**2CZP1**



Cutting Torch
No. 2CZN1



Combination
Torch Outfit
No. 6GJF0



Cutting Tip
No. 2CZP5

Miller

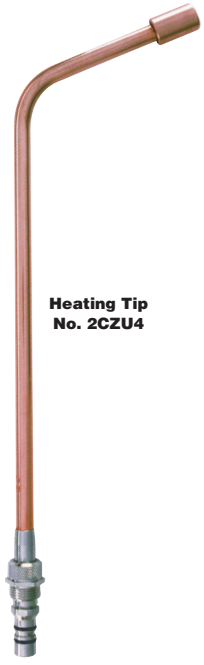
Cutting Torches and Consumables

Description	Cuts Up To	Head	L	Mfr. Model	Item No.
Cutting Torches					
SC Series Heavy Duty	12"	90°	21"	SC229	**2CZN1**
	12"	180°	21"	SC220	**6GJF7**
	24"	75°	36"	SC935	**2CZN3**
	24"	90°	21"	SC929	**6GJF5**
	24"	90°	48"	SC949	**38N740**
	24"	90°	72"	SC969	**38N742**
	24"	180°	36"	SC930	**3LVP8**
	24"	180°	72"	SC960	**3LVR1**
Oxy Cutting Assemblies (Handle, Attachment, Cutting Tips & Flashback Arrestors)					
MC Series Medium Duty	6"	90°	16"	16281	**6GJF1**
SC Series Heavy Duty	8"	90°	18¾"	16280	**6GJF0**



Welding Tip
No. 2CZT2

For Use With	Tip Size	Capacity	Mfr. Model	Item No.
Consumables				
Cutting Tips, 1 Piece				
50 scfh cutting, 7.5 scfh preheat	3½"	Steel Up to ⅜"	SC12-0	**2CZP5**
85 scfh cutting, 11 scfh preheat	3½"	Steel Up to ⅝"	SC12-1	**2CZP6**
135 scfh cutting, 12 scfh preheat	3½"	Steel Up to 1¼"	SC12-2	**2CZP7**
180 scfh cutting, 14 scfh preheat	3½"	Steel Up to 2"	SC12-3	**2CZP8**
315 scfh cutting, 16 scfh preheat	3½"	Steel Up to 4"	SC12-4	**2CZP9**
30 scfh, 7 scfh Preheat	2¾"	Steel Up to 3⁄16"	MC12-00	**2CZR2**
40 scfh, 7 scfh Preheat	2¾"	Steel Up to ¼"	MC12-0	**2CZR1**
81 scfh, 9 scfh Preheat	2¾"	Steel Up to ⅝"	MC12-1	**2CZR3**
118 scfh, 11 scfh Preheat	2¾"	Steel Up to 1"	MC12-2	**2CZR4**
181 scfh, 12 scfh Preheat	2¾"	Steel Up to 2"	MC12-3	**2CZR5**
Welding/Brazing Tips				
AW Acetylene Standard Duty	6"	Up to 1⁄32"	AW201	**6GJG8**
	6"	Up to 5⁄64"	AW203	**6GJG9**
	6"	Up to ⅛"	AW205	**6GJH0**
	7"	Up to 3⁄16"	AW207	**6GJH1**
	7"	Up to ⅜"	AW209	**6GJH2**
	7"	Up to ½"	AW210	**6GJH3**
3.2 scfh	8¼"	Up to 5⁄64"	SW203	**2CZT8**
6 scfh	8½"	Up to ⅛"	SW205	**2CZU1**
12 scfh	8½"	Up to 3⁄16"	SW207	**2CZU2**
23 scfh	9¾"	Up to ⅜"	SW209	**2CZU3**
2.3 scfh	7½"	Up to 1⁄32"	MW201	**2CZT2**
3.2 scfh	7½"	Up to 5⁄64"	MW203	**2CZT3**
6 scfh	7½"	Up to ⅛"	MW205	**2CZT5**
12 scfh	9"	Up to 3⁄16"	MW207	**2CZT6**
Heating Tips				
32 scfh	10"	Acetylene	AT605	**6GJG7**
225-535 scfh Propane, 175-450 scfh Natural Gas, 235-430 scfh Propylene	15¾"	Rosebud, Natural Gas, Propane	ST615	**2CZU6**
96 scfh	19"	Rosebud, Acetylene	ST605	**2CZU4**
31 scfh	10"	, Acetylene	MT603	**2CZU5**



Heating Tip
No. 2CZU4



Cutting Tip
No. 2CZA5



Heating Tip
No. 2CZC1

WESTWARD

Cutting Torch Consumables

For Use With	Size	Capacity	Item No.
Consumables			
Cutting Tips, 1 Piece			
Harris Style 6290	000	Steel Up to 3⁄16"	**2CYZ7**
Cutting Tips, 2 Piece			
Harris Style 6290	00AC	Steel Up to ⅜"	**2CZA5**

For Use With	Size	Item No.
Consumables		
Welding Tip Mixer		
Nos. 2CZD3, 2CZD4	4"	**2CZD2**
Welding Tip Tubes		
No. 2CZD2	16"	**2CZD4**
	28"	**2CZD3**
Heating Tips		
Harris Style 2290	3H	**2CZB7**
	4H	**2CZB8**
	5H	**2CZB9**
Heating Tip Assembly		
Harris Style H-63	1	**2CZC1**
	2	**2CZC2**
	3	**2CZC3**



No. 5GEH6

TURBOTORCH

Portable Totes Consumables

Nozzles are swaged for proper alignment. Each tip has a built-in spiral mixer individually designed for size and flame characteristic.

Welding Handle No. 5GEJ9 features compact, lightweight tube-within-tube design that is good for HVAC, refrigeration, and plumbing applications.

Description	Mfr. Model	Item No.
Brazing Nozzles		
J Series, Size 00	0387-0039	**5GEH5**
J Series, Size 0	0387-0040	**5GEH6**
J Series, Size 1	0387-0041	**5GEH7**
J Series, Size 2	0387-0042	**5GEH8**
J Series, Size 3	0387-0043	**5GEH9**
Heating Nozzle		
Fits "J" Series handle	0325-0109	**5GEH4**
Torch Handle		
Turbo Torch FP,103-01, ⅜'' hose connection	0386-0311	**5GEJ9**
Specialty Gas Regulators, 1½" Dial		
Acetylene, 0 to 15 psig, CGA-200 Inlet, ⅜" NPT Outlet	0781-4240	**49JP43**
Oxygen, 0 to 60 psig, CGA-540 Inlet, ⅜" NPT Outlet	0781-4241	**49JP44**



Cutting Torch
No. 13H867



Torch Handle
No. 5KX63



Cutting Tip
No. 13H870

Cutting Torches and Consumables

Description	Cuts Up To	Head Angle	L	Mfr. Model	Item No.
Cutting Torches					
Model 62-5	12"	90°	18"	1003450	**13H867**
		90°	18"	62-5E	**3WU26**
Cutting Attachments					
Pipeliner, Heavy Duty	6"	90°	9½"	73-3	**5KX55**
Steelworker, Light Duty	5"	90°	9½"	72-3	**5KX56**

Description	Tip Series	L (in.)	Mfr. Model	Item No.
Torch Handles				
Medium-Duty	Brazing Tip	8½	85	**5KX65**
2290 Heavy-Duty	23-A-90, 1390	9½	43-2	**5KX63**

Description	Mfr. Model	Item No.
Consumables		
Cutting Tips		
6290-NX, Size 0, Cuts ⅜ - ⅝" Steel	1501220	**13H868**
6290-NX, Size 1, Cuts ⅝ - 1" Steel	1501230	**13H869**
6290-NX, Size 2, Cuts 1-2" Steel	1501240	**13H870**
6290-NX, Size 3, Cuts 2-3" Steel	1501250	**13H871**
6290-NX, Size 4, Cuts 3-6" Steel	1501260	**13H872**
6290, Size 2, Cuts 4" Steel	1501390	**38K966**
Machine Cutting Tips		
6290, Size 2/0, Cuts ½" Steel	6290-2/0-VVC	**6XR21**
6290, Size 0, Cuts 1¼" Steel	6290-0 ½-VVC	**6XR23**
6290, Size 1, Cuts 2" Steel	6290-1-VVC	**6XR24**
6290, Size 1 ½, Cuts 3" Steel	6290-1 1/2VVC	**6XR25**
6290, Size 2, Cuts 4" Steel	6290-2VVC	**6XR26**
Welding Tip Mixer		
For Use With 23-A-90 Tips	D-85	**5KZ95**
Heat Tips		
For D-50-CL Tip Tube, Size ⅜" - 24(M)	1800025	**38K968**
For 2393 Tip Tube, Size ½" - 25(M)	1800150	**38K959**
Heating Tip Assemblies		
For 43-2 Handle, Size 1	J-63-1	**6XR30**
For 43-2 Handle, Size 2	J-63-2	**6XR31**
For 43-2 Handle, Size 3	J-63-3	**6XR32**
For 43-2 Handle, Size 4	J-63-4	**6XR33**
For 43-2 Handle, Size 5	J-43-5	**6XR27**



Cutting Torch
No. 20UJ88



Cutting Attachment
No. 5KJ32



Welding Nozzle
No. 5KH92

Description	Cuts Up To	Head Angle	L	Mfr. Model	Item No.
Cutting Torches					
Victor ST900FC Series	5"	75°	21"	0381-1623	**20UJ88**
			36"	0381-1625	**20UJ90**
Victor SST 900FC Series		90°	17"	0381-1620	**20UJ87**
Victor ST900FC Series			21"	0381-1621	**5KJ34**
			36"	0381-1624	**20UJ89**
			48"	0381-1629	**20UJ91**
Victor ST2600FC Series	8"	75°	21"	0381-1482	**20UJ82**
		90°	21"	0381-1480	**5KJ37**
			36"	0381-1496	**20UJ85**
			48"	0381-1502	**20UJ86**
		180°	21"	0381-1484	**20UJ83**
Victor SST 2600FC Series		90°	17"	0381-1486	**20UJ84**
Cutting Attachments					
Victor 1260 Series	3"	90°	8"	0381-0162	**5KJ32**
Victor 1350 Series	6"		8"	0381-0418	**5KJ33**
		180°	8"	0381-0421	**25DV30**
Victor 2460 Series	8"	75°	10"	0381-1930	**54TA01**
		90°	10"	0381-1928	**54RZ99**
		180°	10"	0381-1932	**54TA02**

Description	For Use With	L (in.)	Mfr. Model	Item No.
Torch Handles				
Victor 1 Series				
310C	Victor 2460 Series, MFA, MFN, Type 55, W Series	11	0382-0015	**25DV27**
WH 315FC+		9	0382-0093	**54TA03**
J-Series		5	0382-0006	**49NW97**
Victor 3 Series				
100FC	Victor 1350 Series, MFA-1, MFN-1, W-1	8½	0382-0032	**5KJ42**
J-28	Victor 1260 Series, MFJ Series, W-J Series	6	0382-0127	**5KJ44**

Cutting Torches and Consumables

Description	Mfr. Model	Item No.
Consumables		
Cutting Tips		
1 Series, Size 1-101-0, Cuts ⅜" Steel	6700-2410	**20UK23**
1 Series, Size 1-101-1, Cuts ¾" Steel	6700-2411	**20UK24**
1 Series, Size 1-101-2, Cuts 1" Steel	6700-2412	**20UK25**
1 Series, Size 1-101-3, Cuts 2" Steel	6700-2413	**20UK26**
1 Series, Size 1-101-4, Cuts 3" Steel	6700-2414	**20UK27**
1 Series, Size 1-101-5, Cuts 4" Steel	6700-2415	**20UK28**
1 Series, Size 000, Cuts ⅛" Steel	0330-0003	**25DV33**
1 Series, Size 0, Cuts ⅜" Steel	0330-0109	**25DV39**
1 Series, Size 1, Cuts ¾" Steel	0330-0199	**25DV43**
1 Series, Size 1-GPN, Cuts ¾" Steel	0333-0303	**20UJ78**
1 Series, Size 2, Cuts 1" Steel	0330-0113	**25DV40**
1 Series, Size 2, Cuts 1½" Steel	0333-0304	**25DV50**
1 Series, Size 5, Cuts 4" Steel	0330-0008	**25DV35**
1 Series, Size 1-101-00, Cuts ¼" Steel	0330-0004	**5KJ11**
1 Series, Size 1-101-0, Cuts ½" Steel	0330-0012	**5KJ14**
1 Series, Size 1-101-1, Cuts ¾" Steel	0330-0005	**5KJ12**
1 Series, Size 1-101-2, Cuts 1" Steel	0330-0006	**5KJ13**
1 Series, Size 1-101-3, Cuts 2" Steel	0330-0002	**5KJ09**
1 Series, Size 1-101-4, Cuts 3" Steel	0330-0007	**25DV34**
1 Series, Size 1-118-4, Cuts 3" Steel	0330-0114	**20UJ76**
3 Series, Size 3-101-00, Cuts ¼" Steel	0331-0009	**5KJ16**
3 Series, Size 3-101-0, Cuts ⅜" Steel	0331-0013	**5KJ17**
3 Series, Size 3-101-1, Cuts ¾" Steel	0331-0014	**5KJ18**
3 Series, Size 3-101-2, Cuts 1" Steel	0331-0015	**5KJ19**
3 Series, Size 3-101-3, Cuts 2" Steel	0331-0016	**5KJ20**
Welding Nozzles		
W Series, Size 00, Welds 3/64"	0323-0111	**5KH79**
W Series, Size 0, Welds 5/64"	0323-0112	**5KH80**
W Series, Size 1, Welds 3/32"	0323-0120	**5KH81**
W Series, Size 2, Welds ⅛"	0323-0121	**5KH82**
W Series, Size 3, Welds 3/16"	0323-0122	**5KH83**
W Series, Size 4, Welds ¼"	0323-0130	**5KH84**
W Series, Size 5, Welds ½"	0323-0131	**5KH85**
W-1 Series, Size 00, Welds 3/64"	0324-0069	**5KH91**
W-1 Series, Size 0, Welds 5/64"	0324-0070	**5KH92**
W-1 Series, Size 1, Welds 3/32"	0324-0071	**5KH93**
W-1 Series, Size 2, Welds ⅛"	0324-0072	**5KH94**
W-1 Series, Size 3, Welds 3/16"	0324-0073	**5KH95**
W-1 Series, Size 4, Welds ¼"	0324-0074	**5KH96**
W-J Series, Size 1, Welds 3/32"	0325-0084	**5KJ03**
W-J Series, Size 2, Welds ⅛"	0325-0085	**5KJ04**
W-J Series, Size 3, Welds 3/16"	0325-0086	**5KJ05**
W-J Series, Size 4, Welds ¼"	0387-0044	**5KJ06**
Welding Tips		
TE Series, Size 00	0311-0472	**25DV64**
TE Series, Size 0	0311-0473	**25DV65**
Heating Nozzles		
MFA-1 Series, Size 8	0324-0111	**25DW21**
MFA Series, Size 10	0323-0260	**25DW10**
MFA Series, Size 12	0323-0261	**25DW11**
MFA Series, Size 8	0387-0062	**49NX08**
55 Series, Size 20	0323-0326	**25DW19**
Heating Nozzles, Rosebud		
4-MFA Series	0323-0250	**5KH87**
4-MFA-J Series	0325-0105	**5KJ08**
6-MFA-1 Series	0324-0110	**5KH98**
Universal Nozzle		
UN-J Series, Size Multiple	0325-0101	**49NW91**



Hand Crank
No. 3VE30



Hand Crank
No. 3VE31



Spring Drive
No. 4NB19

®REELCRAFT

Arc Welding Cable Reels

Corrosion-resistant powder-coated finish. Hand crank reels include lead wire. Spring drive reels have vibrationproof, self-locking latch and permanently lubricated bearings.

Description	Max. Amps	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Hand Crank, Truck Mount						
Single Reel	300	18"	19"	15¾"	T-1460-0	**2CAJ6**
Double Reel	300	18"	16¼"	38"	T-2464-0	**3VE31**
	300	18"	29"	19"	T-2462-0	**3VE30**
Spring Return, Floor, Wall, Ceiling, Bench and Truck Mount						
Single Reel	400	19"	14¾"	20¼"	WC7000	**4NB19**
	400	24"	16"	25⅜"	WC80001	**4NB20**

UNIWELD · SUPPLIER DIVERSITY · VICTOR · Miller · HARRIS



Flashback Arrestors
No. 5KJ54

Flashback Arrestors, Quick Disconnects, and Check Valves

Flashback Arrestors—Built-in check valves prevent reverse flow of gases.

High Flow Regulator Flashback Arrestors—Thermal shutoff positively shuts off gas and can be used on all sizes of Harris tips.

Quick Disconnects—Feature automatic gas shutoff.

Check Valves—If reverse gas flow starts, valve closes immediately for total shutoff.



Quick Disconnect
No. 5KZ81

Description	Connection	Brand	Mfr. Model	Item No.
Flashback Arrestors (Oxygen & Fuel)				
Pair for Torch	A ⅜-24	Uniweld	TFAA	**5KH48**
	B 9/16-18 RH/LH	Victor	0656-0001	**5KJ54**
	B 9/16-18 RH/LH	Miller Electric	H743	**3LVR5**
Pair for Torch, CutSkill FBT-2	B 9/16-18 RH/LH	Victor	0656-0006	**20UJ98**
Pair for Torch, CutSkill FBR-2	B 9/16-18 RH/LH	Victor	0656-0007	**20UJ99**
Pair for Torch, Flamebuster FBR-1	B 9/16-18 RH/LH	Victor	0656-0004	**20UJ97**
Pair for Regulator	A ⅜-24	Uniweld	RFAA	**5KH37**
	B 9/16-18 RH/LH	Harris	88-5FBR-R & L	**5KZ78**
	B 9/16-18 RH/LH	Miller Electric	H753	**3LVR4**
Flashback Arrestor Set	B 9/16-18 RH/LH	Harris	88-5 FBT R&L	**6ZFA5**
High Flow Regulator Flashback Arrestors (Each)				
Oxygen Regulator	B 9/16-18 RH	Harris	88-5FBHF-RR	**5KZ79**
Fuel Regulator	B 9/16-18 LH	Harris	88-5FBHF-RL	**5KZ82**
Quick Disconnects (Pair)				
Pair for Torch	9/16-18 R & L	Victor	0656-0000	**20UJ96**
	9/16-18 R & L	Harris	26-QCT R & L	**5KZ81**
Pair for Regulator	9/16-18 R & L	Harris	26-QCR R & L	**5KZ80**
Check Valves (Pair)				
Pair for Torch	9/16-18 R & L	Harris	88-6CVT R&L	**2WY31**
	9/16-18 R & L	Victor	0690-0011	**5KJ57**
	9/16-18 R & L	Miller Electric	H697	**3LVR6**
	3/8-24 A	Uniweld	TCVA	**5KH47**
Pair for Regulator	9/16-18 R & L	Miller Electric	H698	**3LVR7**

®REELCRAFT · COXREELS · WESTWARD

Welding Hose and Reels

WELDING HOSE

Heavy-duty cover resists the deteriorating effects of oils, acids, alkalis, and other liquids. 9/16"-18 UNF 2B thread fittings.

WARNING: The use of certain fuel gases may damage welding hose and lead to fires and explosions.

Westward® Gemini Grade R—Made high-tensile spiral-reinforced EPDM tube. Color-coded lines: green (oxygen) and red (acetylene).

Westward® Gemini Grade T—Oil-resistant Chemivic™ cover provides abrasion resistance in extreme conditions.

HOSE REELS

Reels feature permanently lubricated bearings and a corrosion-resistant powder-coated finish. Spring-drive reels have a vibrationproof, self-locking latch.

Reelcraft models have grade T seals and twin line hoses that meet RMA/CGA Type V.D. grade T specifications for flame resistance and burst strength. Coxreels® models have an adjustable guide arm, external fluid path, dual-ported brass swivel and Viton® seals.



No. 38EE86



No. 4NB18



No. 5PR83



No. 4LG87

Hose I.D.	Hose Length	Hose Outlet	(F)NPT Reel Inlet (in.)	Max. Pressure	Max. Temp.	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
Oxy-Acetylene, Grade R											
Spring Driven Reels With Hose											
¼"	25 ft.	9/16" UNF	¼	200 psi	150°F	13¾"	6"	14½"	Reelcraft	TW5425 OLP	**38EE86**
	50 ft.	9/16" UNF	¼	200 psi	150°F	19"	7"	20¼"	Reelcraft	TW7450 OLP	**38EE87**
	60 ft.	9/16" UNF	¼	200 psi	150°F	19"	7"	20¼"	Reelcraft	TW7460 OLP	**38EE88**
	100 ft.	¼"	¼	200 psi	150°F	24"	10¼"	25½"	Coxreels	SHW-N-1100	**16X587**
Oxy-Acetylene, Mapp, Propane, Natural and Fuel Gas, Grade T											
Hand Crank Reel Without Hose											
¼"	150 ft.	9/16" UNF	9/16	200 psi	150°F	15¾"	18"	19"	Reelcraft	T-1225-04	**4NB18**
Spring Driven Reels Without Hose											
¼"	100 ft.	9/16" UNF	¼	200 psi	250°F	24"	13"	25⅜"	Reelcraft	TW84000 OLPT	**5PG12**
Spring Driven Reels With Hose											
¼"	25 ft.	9/16" UNF	¼	200 psi	150°F	13¾"	6"	14½"	Reelcraft	TW5425 OLPT	**5PR83**
	50 ft.	9/16" UNF	¼	200 psi	150°F	19"	7"	20¼"	Reelcraft	TW7450 OLPT	**5PR84**
	60 ft.	9/16" UNF	¼	200 psi	150°F	19"	7"	20¼"	Reelcraft	TW7460 OLPT	**38EE89**
	100 ft.	9/16" UNF	9/16	200 psi	250°F	24"	13"	25⅜"	Reelcraft	TW84100 OLPT	**4NB16**
⅜"	75 ft.	9/16" UNF	9/16	200 psi	250°F	24"	13"	25⅜"	Reelcraft	TW86075 OLPT	**4NB17**

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Item No.
Westward Hose, Gemini Grade R			
3/16	7/16	25	**2Z704**
	7/16	50	**6ZC11**
¼	17/32	25	**2Z705**
	17/32	50	**6ZC12**
Westward Hose, Gemini Grade T			
¼	17/32	50	**4LG87**
	17/32	100	**4LG88**
Reelcraft Twin Inlet Hose, Grade T			
¼	17/32	2	**4NB43**
	17/32	4	**4NB44**


No. 4NE96


No. 3DPX3




No. 33V970


No. 36RC54

BERNZOMATIC SIEVERT
TURBOTORCH UNIWELD


No. 36RE27


No. 5UX31


No. 5KH39


No. 5KH31

Torches

Description	Series	Flame Type	Fuel	Ignitor	Includes	Item No.
Bernzomatic						
Torch	TS99T	Swirl	MAP-Pro	Instant On/Off	—	4NE94
	LT60	Hot-Air	MAP-Pro	Self Igniting	—	4NE84
	TS4000T	Swirl	MAP-Pro	Instant On/Off	—	4NE96
	TS8000	Swirl	MAP-Pro	Instant On/Off	—	3DPX3
Torch Kit	UL100	Pencil	Propane	Manual	14.1 oz. Propane Gas Cylinder	33V973
	KC3500	Adjustable	Propane	Instant On/Off	14.1 oz Propane Fuel Cylinder	52RM88
	TS4000KC	Swirl	MAP-Pro	Instant On/Off	14.1 oz. MAX-Pro Gas Cylinder	33V969
	TS8000BZKC	Swirl	MAP-Pro	Instant On/Off	14.1 oz. MAX-Pro Gas Cylinder	33V972
	BZ8250KC	Swirl	MAP-Pro	Instant On/Off	BZ8250HT Hose Torch, Fuel Holster, 14.1 oz. MAP-Pro Fuel Cylinder	33V970
Sievert						
Torch Kit	PowerJet	Pinpoint, Standard, Hot-Air	MAP-Pro	Instant On/Off	Torch Handle, Lg Cyclone Burner, Hot-Air Burner, Soft Flame Burner, Nozzle, & Canvas Bag	36RC55
	PowerJet	Pinpoint, Standard, Hot-Air	MAP-Pro	Instant On/Off	Torch Handle, Pinpoint Burner, Standard Burner, Sm. Cyclone Burner, Lg Cyclone Burner, Hot-Air Burner, Soft Flame Burner, Nozzle, & Canvas Bag	36RC54
TurboTorch						
Torch	SK-7000	Swirl	MAP-Pro	Self Igniting	—	36RE27
	TL-44-NL	Swirl	MAP-Pro	Self Igniting	—	36RE26
	STK-9	Swirl	MAP-Pro	Manual	Pressure Regulator, ST3 Tip	4PU14
	TX-503	Swirl	MAP-Pro	Self Igniting	—	4PU16
	STK-99	Swirl	MAP-Pro	Self Igniting	STK-R Regulator w/360° Self-Light Swivel Tip, Orifice Screw	5UX31
	TXC-504	Swirl	MAP-Pro	Self Igniting	Durable Plastic Case	36RE28
	TX-504	Swirl	MAP-Pro	Self Igniting	—	4PE99
Torch Kit	TX-500	Swirl	MAP-Pro	Self Igniting	TX504 & T503 Tip	4PU15
	PL-4T DLX	Swirl	MAP-Pro	Self Igniting	Regulator, Handle, Hose, PL-4T Tip	4PU17
	PL-DLXPT	Swirl	MAP-Pro	Self Igniting	Tool Bag, Two Self Lighting Tips, Regulator, Hose, Hose Clamp, Heat Shield & Solder.	5GEH1
	LP-1	Swirl	MAP-Pro	Manual	Regulator, Handle, Hose, T-4 Tip, T-6 Tips	4PU11
Uniweld						
Torch	PCV25	Pencil	MAP-Pro	Manual	—	5KH36
	UT5 LP	Swirl	MAP-Pro	Manual	Regulator w/360° Swivel Elbow & LP Twister Tip	5KH38
	UT6 LP	Swirl	Propane	Self Igniting	Regulator w/360° Swivel Elbow & LP Twister Silver Bullet Tip	5KH39
Torch Kit	UT5 LP	Swirl	MAP-Pro	Manual	Regulator w/360° Swivel Elbow, 16 oz. MAX-Pro, LP Twister Tip & Self-Fluxing Alloy	5KH31

TURBOTORCH BERNZOMATIC MagTorch

Torch Kits and Accessories

Kits feature quick-disconnect handles and tips. O-rings are color-coded for quick gas identification. Tips feature swirl combustion for higher target temperatures.

Description	Includes	Mfr. Model	Brand	Item No.
Acetylene Torch Kits				
For B Tanks				
Brazing Copper Connections	AR-B Regulator, WA-400 Handle, AH-12 Hose, S-4 Tip, Gauge Guard	0386-0090	TurboTorch	4PU19
1½" Soft Solder, ¾" Silver Braze	G4 handle, AH-12 hose, A-5 tip, tank key	0386-0338	TurboTorch	5UX20
3" Soft Solder, 1⅝" Silver Braze	G4 handle, AH-12 hose, A-3 tip, A-11 tip, tank key	0386-0335	TurboTorch	5UX19
3½" Soft Solder, 2" Silver Braze	G4 handle, AH-12 hose, A-5 tip, A-14 tip, tank key	0386-0336	TurboTorch	5GEG3
For B Tanks, Self-Lighting				
Brazing	AR-B CGA-520 Regulator, G4 Handle, Ah-12 Hose, PI-8A Tip	0386-0835	TurboTorch	5GEG1
2" Soft Solder, 1" Silver Braze	G4 handle, AH-12 hose, A-5 tip, tank key	0386-0833	TurboTorch	5UX29
For MC Tanks				
1½" Soft Solder, ¾" Silver Braze	G4 handle, AH-12 hose, A-5 tip, tank key	0386-0384	TurboTorch	5GEG2
2" Soft Solder, 1" Silver Braze	G4 handle, AH-12 hose, A-5 tip, tank key	0386-0339	TurboTorch	5UX21
For MC Tanks, Self-Lighting				
Brazing	AR-MC CGA-200 Regulator, G4 Handle, Ah-12 Hose, PI-8A Tip	0386-0834	TurboTorch	5GEG0
MAP-Pro Torch Kits				
2½" Soft Solder, 1¼" Silver Braze	Regulator, handle, hose, T-4 tip	0386-0006	TurboTorch	5UX08
4" Soft Solder, 2" Silver Braze	Regulator, handle, hose, T-3 and T-5 tips	0386-0007	TurboTorch	5UX09
¼" to 4" Soft Solder	5 ft. Hose Torch, Fuel Holster	384401	Bernzomatic	5JPK0



Acetylene Torch Kit
No. 5UX21



Torch Tip
No. 4PU32

Description	Series	Brand	Mfr. Model	Item No.
Self-Lighting Torch Tips				
½" Tip	MT535C	Mag-Torch	MT 535 C	53HY08
Torch Tips				
⅛" Tip, ½" Soft Solder, ¼" Silver Braze	A-2	TurboTorch	0386-0100	4PU28
3⁄16" Tip, 1" Soft Solder, ½" Silver Braze	A-3	TurboTorch	0386-0101	5UX12
¼" Tip, 1½" Soft Solder, ¾" Silver Braze	A-5	TurboTorch	0386-0102	5UX13
5⁄16" Tip, 2" Soft Solder, 1" Silver Braze	A-8	TurboTorch	0386-0103	5UX14
7⁄16" Tip, 3" Soft Solder, 1⅜" Silver Braze	A-11	TurboTorch	0386-0104	5UX15
½" Tip, 3½" Soft Solder, 2" Silver Braze	A-14	TurboTorch	0386-0105	4PU32
¾" Tip, 6" Soft Solder, 4" Silver Braze	A-32	TurboTorch	0386-0106	5GEJ2
Self-Lighting Torch Tips				
¼" Tip, 1" Soft Solder, ½" Silver Solder	PL-3A	TurboTorch	0386-0874	5GEJ1
5⁄16" Tip, 2" Soft Solder, 1" Silver Solder	PL-8A	TurboTorch	0386-0819	4PU18
⅜" Tip, 4" Soft Solder, 2" Silver Solder	PL-12A	TurboTorch	0386-0820	5GEJ6



Air/Acetylene Soft Flame Kit No. 5KH21



Air/Acetylene Twister® Kit No. 5KH08



Quick-Connect Tip Set No. 5KH22

HVAC, Plumbing, and Maintenance Air/Gas Kits

Air/Acetylene Soft Flame Kit—No. 5KH21 gives precise 2700°F target heat and fast heat transfer making this ideal for soldering copper tubing. Screw-connect handle has easy access rear control valve. Includes RB acetylene regulator, S23 soft flame tip, TH3 screw-connect handle and H12 12½-ft. acetylene gas hose.

No. 5KH29 includes S21, S22, S24, S25, S26, and S27 tips that fit No. 5KH21 (Uniweld K37) and most screw-connect air/gas torch handles.

Air/Acetylene Twister® Kits—For brazing and soldering copper tubing in maintenance and HVAC applications. Kit includes RB acetylene regulator, TH6 quick-connect handle, A-3 and A-11 Twister tips, H12 12½-ft. acetylene hose, and 502 stand.

No. 5KH22 tips fit most quick-connect air/gas torch handles. Includes A-5 and A-8 sizes to extend No. 5KH08 Air/Acetylene Twister Kit's brazing and soldering capabilities.

Description	Mfr. Model	Item No.
Air/Acetylene Soft Flame Kit		
Air/Acetylene Kit	K37	**5KH21**
Screw Connect Soft Flame Tip Set	KSF	**5KH29**
Air/Acetylene Twister® Kits		
Air/Acetylene Kit	89601	**5KH07**
Air/Acetylene Kit, w/B Tank and Alloy Pack	89602U	**5KH08**
Quick Connect Tip Set	KA58	**5KH22**
Carrying Stand for B Tank	502	**2CZV9**

Tip	Copper Tubing Capacity Soft Solder	Silver Solder
Air/Acetylene Twister Tips		
A-3	¼" to 1"	⅛" to ¼"
A-5	¾" to 1½"	¼" to ¾"
A-8	1" to 2"	½" to 1"
A-11	1½" to 3"	⅞" to 1⅜"
Air/Acetylene Soft Flame Tips		
S21	1/16" to ⅛"	Up to 1/16"
S22	⅛" to ⅜"	Up to ⅛"
S23	⅜" to ½"	Up to ⅜"
S24	½" to 1"	Up to ½"
S25	¾" to 1½"	½" to ¾"
S26	1" to 4"	¾" to 1½"
S27	⅛" to ⅜"	Up to ⅛"



Sludge Remover Kits

Sludge Sucker®—Uses compressed gas to create suction that pulls sludge from condensate lines.

Sludge/Clog Blasters—Sludge Blaster uses compressed air to expand inside drain lines with ¼" hose connection. Clog Blasters use water from a standard ¾" garden hose. Plug adapter kit uses compressed air to flush drains after unclogging.

Nitrogen Sludge Sucker® Kits—Both kits include Sludge Baster®, Sludge Sucker, nitrogen regulator, vinyl hose, 2-ft. and 5-ft. service hose, and blowgun.

No. 5KH03 also includes 5-ft. vacuum hose, 40-cu.-ft. empty tank, and carrying stand.

No. 5KH04 comes with air chuck, ½" and ¾" rubber plugs, and needle tip.

Description	Mfr. Model	Item No.
Sludge Sucker®		
¾" PVC, Use w/All Lines	40000	**2CZW1**
Sludge/Clog Blasters		
Sludge Blaster, Pipe Capacity of ¾" to 1" ID	40061	**2CZW2**
Clog Blaster, Pipe Capacity 1" to 2" ID	40062	**2CZW3**
Clog Blaster, Pipe Capacity 1.5" to 3" ID	40063	**2CZW4**
Clog Blaster, ¾" Garden Hose	40064	**2CZW5**
Plug Adaptor Kit	40080	**2CZW6**
Nitrogen Sludge Sucker® Kits		
Sludge Maintenance Kit	40040U	**5KH03**
Sludge Maintenance Kit	40055	**5KH04**
Empty Fuel Cylinder, Empty 40 Cu Ft, CGA 580	N40	**2CZW8**



Propane No. 5UX34

Fuel Cylinders

No. 2YMW5 has left-handed threads. Nos. 2YMW6 and 5UX34 have CGA 600 valve with right-handed threads.

Flame Type	Fuel Capacity	Item No.
Oxygen	1.4 oz.	**2YMW5**
MAP-Pro	14 oz.	**2YMW6**
Propane	14 oz.	**5UX34**

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**



3-In-One Squeeze Bottle
No. 20LA83



Blaster Aerosol Can
No. 402M55



CRC Jug
No. 1HBK4



Jet-Lube Pail
No. 5CHT2



LPS Jug
No. 49CR97



Renewable Lubricants Pail
No. 21A545



Sprayon Spray Bottle
No. 4GUM8



Sprayway Aerosol Can
No. 45C001



Teflon Squeeze Bottle
No. 35RP17

General Purpose Lubricants

Reduce friction and wear, and prevent machinery from overheating. They leave a slippery coating on two surfaces to keep moving parts like wheels, hinges, and gears moving smoothly and extend the life of equipment. They also provide some protection against water damage, contaminants, and corrosives.

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
3-In-One									
—	4 oz. Squeeze Bottle	Mineral Oil	Silicone	Not Rated	-100° to 500°F	Brown	Yes	Flammable	20LA83
	4 oz. Squeeze Bottle	Mineral Oil	PTFE	Not Rated	-50° to 500°F	Amber	Yes	Flammable	20LA86
Blaster									
—	6 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	Colorless	No	Flammable	48GG07
	16 oz. Aerosol Can	Silicone	No Additives	Not Rated	0° to 120°F	Colorless	No	Flammable	16W546
	16 oz. Aerosol Can	Petroleum Distillates	No Additives	H1 Food Grade	-12° to 120°F	Colorless		Flammable	402M55
	1 gal. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	White	No	Flammable	4LRG3
	1 gal. Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	Colorless	No	Flammable	48GG09
CRC									
—	12 oz. Aerosol Can	Silicone	No Additives	Not Rated	-40° to 400°F	Colorless	No	Flammable	19MX42
	16 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	0° to 400°F	White	No	Non-Flammable	4YPJ3
3-36	6 oz. Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	4JB28
	16 oz. Spray Bottle	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	4JB29
	16 oz. Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	2F141
	1 gal. Jug	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	1HBK4
	5 gal. Pail	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	5VE52
	55 gal. Drum	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	Flammable	3APL3
Power Lube®	12 oz. Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50 to 250°F	Amber	No	Flammable	12W319
	16 oz. Aerosol Can	Petroleum Distillates	PTFE	H2 No Food Contact	-40° to 300°F	Amber	No	Flammable	3EEE3
Syntha-Tech™	16 oz. Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-40° to 450°F	White	No	Flammable	12W314
Jet-Lube									
—	12 oz. Aerosol Can	Petroleum Distillates	Silicone	H1 Food Grade	-40° to 350°F	Colorless	Yes	Flammable	2YKK3
769	12 oz. Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-25° to 300°F	Yellow	Yes	Non-Flammable	5CHT9
CC-Lube™	5 gal. Pail	Semi-Synthetic Oil	PTFE	H1 Food Grade	-40° to 400°F	Colorless	No	Non-Flammable	5CHR0
	15 gal. Drum	Semi-Synthetic Oil	PTFE	H1 Food Grade	0° to 400°F	Colorless	No	Non-Flammable	5CHR1
EMS™	1 gal. Pail	Silicone	No Additives	H1 Food Grade	25° to 500°F	White	No	Non-Flammable	5CHT2
	5 gal. Jug	Silicone	No Additives	H1 Food Grade	25° to 500°F	White	No	Non-Flammable	5CHT3
Liquid Wrench									
—	18 oz. Aerosol Can	Petroleum Distillates	No Additives	Not Rated	-20° to 115°F	Yellow	No	Flammable	54YT54
	18 oz. Aerosol Can	Mineral Oil	Silicone	Not Rated	-20° to 115°F	Yellow	No	Flammable	54YT60
LPS									
—	16 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	40° to 500°F	White	No	Flammable	4KK76
	16 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 500°F	Colorless	No	Flammable	19C656
	5 gal. Pail	Silicone	No Additives	H1 Food Grade	40° to 500°F	White	No	Flammable	49CR99
LPS 2	16 oz. Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	Flammable	6Y744
	20 oz. Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	Flammable	2JFD9
	1 gal. Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	Flammable	36FL97
	5 gal. Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	Flammable	36FL94
	55 gal. Drum	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	Flammable	4UAD6
Magnum	16 oz. Aerosol Can	Petroleum Distillates	PTFE	H2 No Food Contact	-50° to 500°F	Brown	No	Flammable	4KK75
TKX	16 oz. Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	Flammable	4KK77
	20 oz. Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	Flammable	2JFD5
	1 gal. Jug	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	Flammable	49CR97
	5 gal. Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 500°F	Green	No	Flammable	49CR98
	55 gal. Drum	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	Flammable	20Y621
Petrochem									
GEARSYN FGG-150	5 gal. Pail	Synthetic Oil	No Additives	H1 Food Grade	-13° to 295°F	Colorless	Yes	Flammable	45VG11
Renewable Lubricants									
Bio-Food Grade	1 gal. Jug	Vegetable Oil	No Additives	H1 Food Grade	32° to 622°F	Yellow	Yes	Non-Flammable	21A544
	5 gal. Pail	Vegetable Oil	No Additives	H1 Food Grade	32° to 622°F	Yellow	Yes	Non-Flammable	21A545
Bio-Penetrating Lubricant	16 oz. Aerosol Can	Petroleum Distillates	No Additives	H1 Food Grade	0° to 280°F	Colorless	Yes	Non-Flammable	2VXN3
	16 oz. Aerosol Can	Vegetable Oil	No Additives	Not Rated	-20° to 295°F	Yellow	Yes	Flammable	2NMV6
	1 gal. Jug	Vegetable Oil	No Additives	Not Rated	-20° to 295°F	Yellow	Yes	Non-Flammable	2NMV5
Sprayon									
LU206	14 oz. Spray Bottle	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	Flammable	4GUR2
	16 oz. Aerosol Can	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	Flammable	2X988
	5 gal. Pail	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	Flammable	30WK47
LU210	14 oz. Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	Flammable	4GUM8
	16 oz. Aerosol Can	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	Flammable	6KHE3
	5 gal. Pail	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	Flammable	30WK31
	55 gal. Drum	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	Flammable	30WK32
LU212	20 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	Flammable	12R251
LU213	20 oz. Aerosol Can	Vegetable Oil	PTFE	H1 Food Grade	12° to 635°F	Amber	No	Flammable	12R254
LU214	20 oz. Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-78° to 478°F	Colorless	No	Flammable	24A829
LU711	14 oz. Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	Flammable	4GUR1
	16 oz. Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	Flammable	2X725
	1 gal. Can	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	Flammable	30WK37
	5 gal. Pail	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	Flammable	30WK38
	55 gal. Drum	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	Flammable	30WK39
LU727	16 oz. Aerosol Can	Mineral Oil	PTFE	Not Rated	-40° to 450°F	Amber	No	Flammable	5PE63
LU728	16 oz. Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-40° to 475°F	Colorless	No	Non-Flammable	1MEU2
LU905	16 oz. Aerosol Can	Silicone	No Additives	Not Rated	-40° to 450°F	Colorless	Yes	Flammable	6KDX9
	16 oz. Aerosol Can	Silicone	No Additives	H2 No Food Contact	-58° to 575°F	Colorless	Yes	Flammable	6KDY0
Sprayway									
Black Label	20 oz. Aerosol Can	Petroleum Distillates	PTFE, Molybdenum	Not Rated	-20° to 500°F	White	No	Flammable	45C001
	20 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-5° to 450°F	Colorless	No	Flammable	45C004
L1	15 oz. Aerosol Can	Petroleum Distillates	No Additives	Not Rated	up to 400°F	Colorless	No		45A999
Super Lube									
—	4 oz. Squeeze Bottle	Silicone	No Additives	H1 Food Grade	-58° to 392°F	Colorless	No	Non-Flammable	436P96
	11 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 392°F	Colorless	No	Flammable	44N745
	11 oz. Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-45° to 450°F	Colorless	No	Flammable	44N742
	32 oz. Spray Bottle	Synthetic Oil	PTFE	H1 Food Grade	-45° to 450°F	Colorless	No	Non-Flammable	44N740
Teflon									
TMU	4 oz. Squeeze Bottle	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	Flammable	35RP17
	16 oz. Aerosol Can	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	Flammable	35RP18
	1.5 lb. Jug	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	Flammable	35RP19
TSL	4 oz. Squeeze Bottle	Silicone	No Additives	H2 No Food Contact	-20° to 250°F	Colorless	No	Flammable	35RP22
	16 oz. Aerosol Can	Silicone	No Additives	H2 No Food Contact	-20° to 250°F	Colorless	No	Flammable	35RP23
	1.5 lb. Jug	Silicone	No Additives	H2 No Food Contact	-40° to 400°F	Colorless	No	Flammable	35RP24
	5 gal. Pail	Silicone	No Additives	H2 No Food Contact	-40° to 400°F	Colorless	Yes	Flammable	35RP26

CONTINUED

CONTINUED

General Purpose Lubricants

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
Tri-Flow									
—	0.25 oz. Pen	Mineral Oil	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	2PB97
	2 oz. Dropper Bottle	Petroleum Distillates	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	3JDL7
	6 oz. Aerosol Can	Petroleum Distillates	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	3JDL5
	8 oz. Aerosol Can	Mineral Oil	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	3JDL3
	12 oz. Aerosol Can	Mineral Oil	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	3KB67
	18 oz. Spray Bottle	Petroleum Distillates	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	4TA89
	1 gal. Jug	Mineral Oil	PTFE	H2 No Food Contact	-60° to 475°F	Brown	No	Flammable	2PB96
WD-40									
—	3 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY59
	8 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY60
	11 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY61
	12 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY62
	21 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY63
	20 oz. Spray Bottle	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY65
	23 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY64
	1 gal. Can	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY66
	5 gal. Pail	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY67
	55 gal. Drum	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	20JY68
EZ Reach, Flexible Straw	20 oz. Aerosol Can	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	Flammable	40LP99
WD-40 Specialist									
—	15 oz. Aerosol Can	Mineral Oil	No Additives	Not Rated	-100° to 500°F	Amber	Yes	Flammable	45WD32
Zep									
—	11 oz. Aerosol Can	Mineral Oil	PTFE	Not Rated	-20° to 200°F	White	No	Flammable	449V92
	15 oz. Aerosol Can	Mineral Oil	No Additives	H1 Food Grade	-5° to 500°F	Colorless	No	Flammable	456L10
Lubrisil NC	10 oz. Aerosol Can	Petroleum Distillates	Silicone	H1 Food Grade	-20° to 600°F	Colorless	No	Flammable	456L07
ML	16 oz. Aerosol Can	Petroleum Distillates	Molybdenum	Not Rated	-25° to 550°F	Black	No	Flammable	449V65
Par NC	12 oz. Aerosol Can	Petroleum Distillates	Silicone	Not Rated	-20° to 600°F	Colorless	No	Flammable	456L08
Selig Kwik Release	55 gal. Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 120°F	Colorless	No	Flammable	456L11
Twister Ultra	15 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 250°F	Brown	No	Flammable	449V87
X-571	55 gal. Drum	Water	No Additives	Not Rated	up to 200°F	Amber	No	Non-Flammable	456L19
Zep 2000	13 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 600°F	Amber	No	Flammable	43NR69
	13 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-100° to 600°F	Amber	No	Flammable	456K83
Zep 45	14 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 250°F	Amber	No	Flammable	449V37
	17 oz. Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 475°F	Brown	No	Flammable	449V06
Zep 45 Dual Force	14 oz. Aerosol Can	Petroleum Distillates	No Additives	Not Rated	0° to 250°F	Amber	No	Flammable	43NR68
	1 gal. Jug	Petroleum Distillates	No Additives	Not Rated	-55° to 250°F	Amber	No	Non-Flammable	449V07
Zep Slide	1 gal. Jug	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	Flammable	456L15
	20 gal. Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	Flammable	456L14
	55 gal. Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	Flammable	456L16
Zepreserve NC	15 oz. Aerosol Can	Petroleum Distillates	Silicone	Not Rated	-25° to 250°F	Amber	No	Flammable	449W06
Zepreserve	18 oz. Aerosol Can	Mineral Oil	Silicone	Not Rated	-25° to 250°F	Amber	No	Flammable	449W05



Tri-Flow Dropper Bottle No. 3JDL7



WD-40 Spray Bottle No. 20JY65



WD-40 Specialist Aerosol Can No. 45WD32



Zep Aerosol Can No. 43NR68

Chain & Wire Rope Lubricants

Formulated to penetrate wire rope and the pins and bushings within chain. They prevent damage from friction as the chain or rope engages with equipment.



CRC Aerosol Can No. 21C339



Petrochem Pail No. 2HTJ4



Petrochem Drum No. 6HXG0



WD-40 Specialist Aerosol Can No. 451K61

Series	Container Size	Lubricant Base	Primary Additive	Chain and Wire Rope Uses	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
CRC										
—	16 oz. Aerosol Can	Mineral Oil	No Additives	Chain	H1 Food Grade	8° to 325°F	White	Yes	Flammable	4JB34
	16 oz. Aerosol Can	Mineral Oil	Molybdenum	Wire Rope	H2 No Food Contact	25° to 350°F	Amber	No	Flammable	2F139
	16 oz. Aerosol Can	Mineral Oil	No Additives	Chain	H2 No Food Contact	0° to 350°F	Blue	No	Flammable	21C339
Jet-Lube										
WRL™	12 oz. Aerosol Can	Petroleum Distillates	No Additives	Chain, Wire Rope	Not Rated	-20° to 320°F	Amber	Yes	Non-Flammable	10D833
Liquid Wrench										
—	11 oz. Aerosol Can	Silicone	PTFE	Chain	Not Rated	20° to 110°F	Yellow	No	Flammable	54YT59
Loctite										
LB	12 oz. Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear	Not Rated	-20° to 250°F	Yellow	No	Flammable	40TR07
LPS										
ChainMate	16 oz. Aerosol Can	Mineral Oil	Molybdenum	Chain	Not Rated	32° to 300°F	Black	No	Flammable	3HY54
LPS Food Grade Chain Lubricant w/Detex	16 oz. Aerosol Can	Mineral Oil	Molybdenum	Chain	H1 Food Grade	32° to 325°F	Colorless	No	Flammable	19C658
Petrochem										
—	1 gal. Pail	Synthetic Oil	No Additives	Chain	H1 Food Grade	-67° to 510°F	Colorless	Yes	Non-Flammable	2HTJ2
	5 gal. Pail	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 670°F	Amber	No	Non-Flammable	2HTJ4
	5 gal. Pail	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 655°F	Yellow	No	Non-Flammable	2HTJ5
	55 gal. Drum	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 655°F	Yellow	No	Non-Flammable	6HXG0
Sprayon										
LU 202	11 oz. Aerosol Can	Mineral Oil	Molybdenum	Chain	H2 No Food Contact	-20° to 300°F	Amber	No	Flammable	5PE62
LU 205	15 oz. Aerosol Can	Vegetable Oil	PTFE	Chain	H1 Food Grade	12° to 450°F	Amber	No	Flammable	12R253
LU 201	16 oz. Aerosol Can	Mineral Oil	Molybdenum	Open Gear, Wire Rope	H2 No Food Contact	0° to 450°F	Black	No	Flammable	4X595
Sprayway										
Black Label	20 oz. Aerosol Can	Petroleum Distillates	Molybdenum	Chain	Not Rated	0° to 543°F	Black	No	Flammable	45C003
WD-40 Specialist										
—	10 oz. Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear, Wire Rope	Not Rated	-100° to 500°F	Colorless	Yes	Flammable	451K61
Zep										
—	12 oz. Aerosol Can	Mineral Oil	Molybdenum	Chain	Not Rated	-20° to 400°F	Amber	No	Flammable	449V81

Chute Lubricants

- Flammable
- Not odorless

Expedite movement of boxes in a packaging and shipping facility.

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Item No.
Chute Lube™	16 oz. Spray Bottle	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	4YPJ2
	20 oz. Aerosol Can	Petroleum Distillates	Silicone	H2 No Food Contact	-15° to 400°F	Yellow	1HBK9
	5 gal. Pail	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	1YNX1
	55 gal. Drum	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	19MW90
Parcel Glide®	16 oz. Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	3DUF8



Aerosol Can No. 1HBK9



Gardner Bender Jug
No. 15V970



Ideal Pail
No. 10F525



Super Lube Squeeze Bottle
No. 45NA76

Cable & Wire Pulling Lubricants

- Nonflammable
- Nonconductive
- Nonstaining
- Not NSF rated
- Not odorless

These lubricants are applied to wire or cable so they can be pulled smoothly through long conduit runs or runs with many bends. They reduce friction and pulling tension, so they save time and minimize damage to wire insulation and cable jackets, which prevents performance issues. They're safe for use on most plastics, but they should be tested on a small area first.

Series	Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Physical Form	Item No.
3M							
WL	5 gal. Pail	Water	No Additives	20° to 110°F	White	Gel	**2GCD5**
	55 gal. Drum	Water	No Additives	20° to 110°F	White	Gel	**2JPX6**
WLW	1 qt. Squeeze Bottle	Water	No Additives	10° to 110°F	Green	Gel	**2JNW2**
	5 gal. Pail	Water	No Additives	10° to 110°F	Green	Gel	**2JNT8**
WLX	1 qt. Squeeze Bottle	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2JFN3**
	1 gal. Pail	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2GCF9**
	5 gal. Pail	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2GCJ2**
Gardner Bender							
Super-Slick Cable Pulling Lubricant	1 qt. Squeeze Bottle	Water	No Additives	28° to 200°F	White	Gel	**15V969**
	1 gal. Jug	Water	No Additives	28° to 200°F	White	Gel	**15V970**
	5 gal. Pail	Water	No Additives	28° to 200°F	White	Gel	**15V971**
Greenlee							
—	1 qt. Squeeze Bottle	Water	No Additives	29° to 190°F	Yellow	Liquid	**4A801**
	1 qt. Squeeze Bottle	Water	No Additives	29° to 190°F	Blue	Gel	**5C647**
	1 gal. Pail	Water	No Additives	29° to 190°F	Blue	Gel	**4HEA7**
IDEAL							
Aqua-Gel® II	1 qt. Squeeze Bottle	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F536**
	1 gal. Pail	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F537**
	5 gal. Pail	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F538**
Clear Glide®	5 gal. Pail	Polymer	No Additives	32° to 180°F	Colorless	Gel	**10F530**
Velocity™	1 qt. Squeeze Bottle	Water	No Additives	40° to 170°F	White	Gel	**10F532**
	1 gal. Pail	Water	No Additives	40° to 170°F	White	Gel	**10F533**
	5 gal. Pail	Water	No Additives	40° to 100°F	White	Gel	**10F534**
Yellow 77®	1 qt. Squeeze Bottle	Water-Wax Emulsion	No Additives	32° to 130°F	Yellow	Paste	**10F526**
	5 gal. Pail	Water-Wax Emulsion	No Additives	32° to 130°F	Yellow	Paste	**10F528**
Yellow 77® Plus	1 qt. Squeeze Bottle	Water	PTFE	32° to 190°F	Yellow	Paste	**10F523**
	1 gal. Pail	Water	PTFE	32° to 190°F	Yellow	Paste	**10F524**
	5 gal. Pail	Water	PTFE	32° to 190°F	Yellow	Paste	**10F525**
Super Lube							
Superpull	32 oz. Squeeze Bottle	Water	No Additives	-15° to 220°F	Colorless	Liquid	**45NA76**



Spray Bottle
No. 2YE15

Electrical Lubricants

- Flammable
- NSF rated H2 for no food contact
- No additives

Protect electronic components against moisture damage and corrosion that can cause an electrical malfunction. They also clean components, loosening corrosion or whisking away moisture. These lubricants have an amber color and have a petroleum distillates base.

Series	Container Size	Operating Temp. Range	Item No.
2-26	16 oz. Aerosol Can	-50° to 250°F	**1HBK1**
	16 oz. Spray Bottle	-50° to 250°F	**2YE15**
	1 gal. Jug	-50° to 250°F	**13P438**
	5 gal. Pail	-50° to 250°F	**13P439**
3-36	16 oz. Aerosol Can	32° to 250°F	**4ZF10**



CRC Aerosol Can
No. 1D267



Sprayon Pail
No. 30WK33

Belt Dressing Lubricants

- Flammable
- Not odorless
- No additives

Prevent belts in machinery and equipment from hardening and accumulating dirt, which reduces wear and tear and increases belt life. They are ideal for flat, round, or V-shaped belts in leather, rubber, or canvas.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Lubricant Color	Item No.
CRC						
—	16 oz. Aerosol Can	Mineral Oil	H1 Food Grade	-40° to 350°F	Amber	**1D267**
LPS						
—	16 oz. Aerosol Can	Mineral Oil	H1 Food Grade	32° to 325°F	Colorless	**19C660**
Sprayon						
SP607	14 oz. Spray Bottle	Mineral Oil	Not Rated	-40° to 450°F	Colorless	**4GUM7**
	16 oz. Aerosol Can	Mineral Oil	P1 No Food Contact	-40° to 450°F	Amber	**6KHF7**
	5 gal. Pail	Mineral Oil	P1 No Food Contact	-40° to 450°F	Amber	**30WK33**
SP608	16 oz. Aerosol Can	Resin	H1 Food Grade	-40° to 450°F	Colorless	**12R259**



Trolley Lubricants

- Colorless
- Odorless
- No additives

Prevents bearings from sticking in overhead conveyors and chains. It leaves a film on overhead trolley chains commonly found in meat, poultry, and fish-processing plants. It remains fluid at low temperatures and won't wash off equipment with water.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Flammability	Item No.
FOODSAFE PETRO-SYN FG-220	5 gal. Pail	Mineral Oil	H1 Food Grade	-54° to 475°F	Flammable	**40P254**

LPS

Sugar-Dissolving Lubricants

- Colorless
- Odorless
- No additives

Used in food and beverage facilities to remove sugar and fondant from equipment. They leave a light, durable film on conveyor, cutter, and fastener surfaces while providing short-term corrosion resistance.



Spray Bottle
No. 29FY02

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Item No.
Food Lube	15 oz. Aerosol Can	Mineral Oil	H1 Food Grade	41° to 203°F	29FY01
	28 oz. Spray Bottle				29FY02
	1 gal. Jug				29FY03

CRC ECHO MAG 1 Makita RENEWABLE LUBRICANTS

Chainsaw Lubricants

Typically formulated with a tack additive to help them stick to the saw's chains and blades (sometimes called guidebars). These lubricants reduce friction between the moving parts to prevent damage caused by locking up, excessive heat, or buildup. They're applied to the chain and penetrate the pins, bushings, and blades.



Makita
Jug
No. 6MYD3

Container Size	Lubricant Base	Equipment Power Source	Operating Temp. Range	Item No.
CRC				
1 qt Jug	Petroleum Distillates	Battery-operated, Electric, Gas	—	5TN64
Echo				
1 qt Jug	Petroleum Distillates	Electric, Gas	15° to 120°F	45J376
1 gal Jug	Petroleum Distillates	Electric, Gas	15° to 120°F	45J375
Mag 1				
1 qt Jug	Petroleum Distillates	Battery-operated, Electric, Gas	-35° to 140°F	43Y865
1 gal Jug	Petroleum Distillates	Battery-operated, Electric, Gas	-35° to 140°F	43Y866
Makita				
1 gal Jug	Mineral Oil	Electric, Gas	—	6MYD3
Renewable Lubricants				
1 qt Jug	Vegetable Oil	Battery-operated, Electric, Gas	-21° to 250°F	2NMX1

BLASTER CRC LPS SLIP Plate Super Lube Sprayon Sprayway WD-40 SPECIALIST

General Purpose Dry Lubricants

- Flammable

These lubricants reduce friction between moving parts with a powdery coating. They lubricate parts such as rollers, gears, and chains without a fluid. They can withstand high temperatures and won't break down and drip. They resist dust and dirt and prevent grime from building up on equipment.



Blaster
Aerosol Can
No. 16W547



LPS
Pail
No. 20Y598

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Item No.
Blaster								
—	8 oz. Aerosol Can	Graphite	No Additives	Not Rated	-100° to 850°F	Colorless	Yes	41P116
	16 oz. Aerosol Can	PTFE	No Additives	Not Rated	0° to 120°F	Colorless	—	16W547
CRC								
—	16 oz. Aerosol Can	Molybdenum	No Additives	Not Rated	20° to 650°F	Gray	No	49XX25
	16 oz. Aerosol Can	Molybdenum	No Additives	Not Rated	-30° to 650°F	Gray	No	2F138
	16 oz. Aerosol Can	Graphite	No Additives	Not Rated	up to 850°F	Black	No	4JB39
	16 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	3EED7
	16 oz. Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	4JB32
	16 oz. Aerosol Can	PTFE	No Additives	H2 No Food Contact	-40° to 450°F	White	No	4JB33
	16 oz. Aerosol Can	Silicone	No Additives	H2 No Food Contact	-100° to 450°F	Colorless	No	3EED2
	5 gal. Pail	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	5VE47
3-36	16 oz. Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-40° to 300°F	Amber	No	3EEE4
LPS								
—	16 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-50° to 500°F	Colorless	No	19C657
Force 842°	16 oz. Aerosol Can	Mineral Oil	Molybdenum	Not Rated	0° to 852°F	White	No	5YH76
LPS 1	11 oz. Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	6Y743
	22 oz. Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	2JFD7
	5 gal. Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	20Y598
	55 gal. Drum	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	20Y599
SLIP Plate								
—	12 oz. Aerosol Can	Mineral Oil	Graphite	Not Rated	-75° to 450°F	White	No	1WVK7
	1 gal. Can	Mineral Oil	Graphite	Not Rated	-75° to 450°F	Gray	—	1WVL3
	38 lb. Can	Mineral Oil	Graphite	Not Rated	-75° to 450°F	White	—	1WVL5
	48 lb. Pail	Mineral Oil	Graphite	Not Rated	-75° to 450°F	White	No	1WVL4
Sprayon								
LU200	16 oz. Aerosol Can	Molybdenum	No Additives	H2 No Food Contact	-30° to 650°F	Black	No	6KHF6
LU204	13 oz. Aerosol Can	Graphite	No Additives	H2 No Food Contact	-40° to 850°F	Black	No	30WK24
	16 oz. Aerosol Can	Graphite	No Additives	H2 No Food Contact	-40° to 850°F	Gray	No	30WK23
LU211	20 oz. Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	12R252
Sprayway								
Black Label	20 oz. Aerosol Can	PTFE	No Additives	Not Rated	-20° to 500°F	White	No	45C007
Super Lube								
Dri-Film	20 oz. Aerosol Can	PTFE	No Additives	H1 Food Grade	-40° to 500°F	White	No	44N743
WD-40 Specialist								
—	10 oz. Aerosol Can	Mineral Oil	PTFE	H2 No Food Contact	-50° to 500°F	Colorless	Yes	44R237
	16 oz. Aerosol Can	Mineral Oil	Silicone	H2 No Food Contact	-100° to 500°F	Colorless	Yes	19L521



SLIP Plate
Can
No. 1WVL3



WD-40
Specialist
Aerosol Can
No. 19L521

Chain & Wire Rope Dry Lubricants

BLASTER CRC Petrochem High Performance Lubricants SUPPLIER DIVERSITY SLIP Plate

Prevent damage by reducing the friction between the chain or rope as it engages with the equipment. The lubricant penetrates wire rope and the pins and bushings within a chain, leaving a dry film behind to prevent dust or dirt from sticking.

Container Size	Lubricant Base	Primary Additive	Chain and Wire Rope Uses	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
Blaster									
11 oz. Aerosol Can	Petroleum Distillates	No Additives	Chain	Not Rated	0° to 350°F	Colorless	Yes	Flammable	48GG06
11 oz. Aerosol Can	Silicone	No Additives	Chain	H1 Food Grade	-12° to 120°F	Colorless	Yes	Flammable	402M54
CRC									
16 oz. Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear	Not Rated	-25° to 350°F	Black	No	Flammable	1HBK7
Petrochem									
1 gal. Jug	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 600°F	White	No	Non-Flammable	3NLK3
5 gal. Pail	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 600°F	White	No	Non-Flammable	3NLK2
55 gal. Drum	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 1200°F	White	No	Non-Flammable	6HXF8
SLIP Plate									
12 oz. Aerosol Can	Mineral Oil	No Additives	—	Not Rated	32° to 350°F	Black	Yes	Flammable	1WVL1
1 gal. Can	Water	Graphite	Oven Chain	H1 Food Grade	200° to 450°F	Black	Yes	Non-Flammable	1WVK8



Blaster
Aerosol Can
No. 48GG06



Liquid Wrench
Aerosol Can
No. 54YK45

Garage Door Dry Lubricants

- Flammable
- Not NSF rated

Leave a dry film that protects rolling door mechanisms against water damage or corrosion.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
3-In-One						
16 oz. Aerosol Can	Mineral Oil	Silicone	-40° to 392°F	Colorless	Yes	**3DVF7**
Blaster						
5 oz. Aerosol Can	Silicone	No Additives	0° to 120°F	Colorless	Yes	**48GG08**
16 oz. Aerosol Can	Silicone	No Additives	0° to 120°F	Colorless	Yes	**10N778**
Liquid Wrench						
16 oz. Aerosol Can	Mineral Oil	No Additives	20° to 122°F	White	No	**54YK45**



3-In-One
Aerosol Can
No. 39EL86

Lock Dry Lubricants

- Flammable
- Not NSF rated

These powdery, solid substances penetrate quickly into stuck or frozen locks to release them, and they provide protection against further corrosion. They don't attract dust or dirt and won't create grime or leave wet residue in the lock.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
3-In-One						
5 oz. Aerosol Can	Mineral Oil	PTFE	-50° to 500°F	Colorless	Yes	**39EL86**
CRC						
2 oz. Aerosol Can	Graphite	No Additives	0° to 120°F	Black	No	**48TA27**
Liquid Wrench						
10 oz. Aerosol Can	PTFE	No Additives	-20° to 115°F	White	Yes	**54YT62**



Inner Slide Dry Lubricants

- Flammable
- Not odorless

Increase slide motion on forklift rails and helps protect the rails against rust and corrosion. The primary additive is molybdenum.

Container Size	Lubricant Base	Operating Temp. Range	Lubricant Color	Item No.
16 oz. Aerosol Can	Organic Solvent	0° to 325°F	Black	**36F364**



CRC
Aerosol Can
No. 4YPJ9

Electrical Dry Lubricants

- Flammable
- NSF rated H1 for incidental food contact

Coat electronics with a dry film that resists and repels moisture. They can be applied to nonenergized equipment in wet or harsh environments for waterproofing. They should not be applied to energized equipment.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
16 oz. Aerosol Can	Silicone	No Additives	-40° to 400°F	Colorless	No	**4YPJ9**
5 gal. Pail						**4YPK1**



Sprayon
Aerosol Can
No. 1D277



Super Lube®
Aerosol Can
No. 44N744



WD-40 Specialist
Jug
No. 19L524

Penetrating Lubricants

Loosen fasteners or bolts that are stuck or frozen in place so they can be removed or separated. They seep into crevices or small spaces between threaded parts to release them. They can displace moisture and prevent corrosion between fasteners. Penetrating lubricants evaporate more quickly than other lubricants, so they are better used for short-term lubrication.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
Blaster								
PB Blaster	4 oz. Aerosol Can	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	**4LRG2**
	11 oz. Aerosol Can	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	**4LRF8**
	18 oz. Aerosol Can	Petroleum Distillates	Not Rated	0° to 120°F	Orange	No	Flammable	**413W27**
	1 gal. Can	Petroleum Distillates	Not Rated	20° to 120°F	Colorless	No	Flammable	**4LRF9**
	5 gal. Pail	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	**4LRG1**
CRC								
—	16 oz. Aerosol Can	Mineral Oil	H1 Food Grade	32° to 300°F	Colorless	Yes	Flammable	**4JB37**
Knock'er Loose	6 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Non-Flammable	**12P768**
	8 oz. Can	Mineral Oil	H2 No Food Contact	32° to 300°F	Red	No	Flammable	**12P770**
	16 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Non-Flammable	**3EED4**
	20 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Orange	No	Flammable	**1MEC7**
	1 gal. Jug	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Flammable	**3EED9**
Screwloose®	16 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Amber	No	Flammable	**2F145**
Liquid Wrench								
Penetrating Oil	11 oz. Aerosol Can	Petroleum Distillates	Not Rated	-20° to 150°F	Yellow	Yes	Flammable	**54YT50**
	16 oz. Squeeze Bottle	Vegetable Oil	Not Rated	-20° to 150°F	Yellow	Yes	Flammable	**54YT51**
LPS								
—	16 oz. Aerosol Can	Mineral Oil	H1 Food Grade	0° to 400°F	Off-White	No	Flammable	**19C655**
KB-88	16 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	-40° to 300°F	Red	No	Flammable	**1CMX3**
	22 oz. Spray Bottle	Petroleum Distillates	H2 No Food Contact	-40° to 300°F	Red	No	Flammable	**6JHX4**
Sprayon								
LU103	12 oz. Aerosol Can	Petroleum Distillates	H2 No Food Contact	-20° to 550°F	Amber	No	Flammable	**1D277**
LU104	16 oz. Aerosol Can	Synthetic Oil	H1 Food Grade	-40° to 475°F	Colorless	No	Non-Flammable	**12R255**
Super Lube								
Syncopen	16 oz. Aerosol Can	Synthetic Oil	H1 Food Grade	-30° to 200°F	Colorless	No	Flammable	**44N744**
WD-40 Specialist								
—	11 oz. Aerosol Can	Petroleum Distillates	Not Rated	-50° to 400°F	Colorless	Yes	Flammable	**19L520**
Specialist®	1 gal. Jug	Water	Not Rated	60° to 150°F	Colorless	Yes	Non-Flammable	**19L524**
Zep								
Selig	15 oz. Aerosol Can	Mineral Oil	Not Rated	0° to 250°F	Colorless	No	Flammable	**456L12**
	20 oz. Aerosol Can	Petroleum Distillates	Not Rated	0° to 250°F	Pink	No	Flammable	**456L13**

General Purpose Anti-Seize

This anti-seize can be used in a wide variety of applications to prevent threaded fasteners and close-fitting parts from locking together.



Anti-Seize Technology Brush-Top Can No. 23YA46



CRC Aerosol Can No. 13P451

Series	Container Size	Anti-Seize Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Conductive	Item No.
Anti-Seize Technology										
11000	5 oz. Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA25
	8 oz. Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA27
	16 oz. Aerosol Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	34D498
	16 oz. Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	34D507
	16 oz. Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA29
13000	8 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-300° to 2600°F	Silver	No	Non-Flammable	Yes	23YA46
	1 lb. Brush-Top Can	Nickel	Graphite	Not Rated	-300° to 2600°F	Silver	No	Non-Flammable	Yes	23YA50
CRC										
—	8 oz. Brush-Top Can	Copper	No Additives	Not Rated	-95° to 2000°F	—	Yes	Non-Flammable	Yes	13P455
	8 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-95° to 2600°F	—	Yes	Non-Flammable	Yes	13P457
	16 oz. Aerosol Can	Copper	No Additives	Not Rated	-65° to 1800°F	—	Yes	Flammable	Yes	13P451
	16 oz. Brush-Top Can	Copper	No Additives	Not Rated	-95° to 2000°F	—	Yes	Non-Flammable	Yes	13P456
	16 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-95° to 2600°F	—	Yes	Non-Flammable	Yes	13P458
Jet-Lube										
550	¼ lb. Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	Gray	No	Non-Flammable	Yes	10D824
	½ lb. Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	Gray	No	Non-Flammable	Yes	10D825
	1 lb. Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	Gray	No	Non-Flammable	Yes	10D826
Kopr-Kote	12 oz. Aerosol Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	30WK61
	¼ lb. Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D817
	½ lb. Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D818
	1 lb. Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D819
	1 gal. Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D821
	2.5 gal. Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D822
	5 gal. Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D823
Nikal	¼ lb. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Non-Flammable	Yes	10D829
	½ lb. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Non-Flammable	Yes	10D830
	1 lb. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Non-Flammable	Yes	10D831
Silver Plus	½ lb. Brush-Top Can	Aluminum	Graphite	Not Rated	-65° to 1800°F	Silver	No	Non-Flammable	Yes	30WK71
	1 lb. Brush-Top Can	Aluminum	No Additives	Not Rated	-65° to 1800°F	Silver	No	Non-Flammable	Yes	30WK72
SS-30	½ lb. Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Non-Flammable	Yes	30WK62
Zinc Dust Petrolatum	1 lb. Brush-Top Can	Zinc	No Additives	Not Rated	-65° to 788°F	Gray	No	Non-Flammable	Yes	30WK69
Loctite										
LB 771	8 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	4KM51
	12 oz. Aerosol Can	Aluminum, Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Flammable	Yes	33PK29
	1 lb. Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	45MY42
	1 lb. Brush-Top Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	4KM52
	8 lb. Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	33HE97
	5 gal. Pail	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	33HE98
LB 8007	12 oz. Aerosol Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Flammable	Yes	33PK27
LB 8008	0.0705 oz. Pillow Pack	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE7
	0.2469 oz. Pillow Pack	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE8
	1 oz. Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE9
	4 oz. Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFF1
	4 oz. Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	4KM71
	7 oz. Brush-Top Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY33
	8 oz. Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	5E203
	16 oz. Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY38
	16 oz. Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY39
	1 lb. Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2A272
	2.5 lb. Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY40
	8 lb. Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	33HF02
	42 lb. Pail	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	33HF03
LB 8012	8 oz. Brush-Top Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	Yes	5E200
	12 oz. Aerosol Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Flammable	Yes	33PK25
	1 lb. Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	2VFF7
	15 lb. Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	45MY48
LB 8036	8 oz. Brush-Top Can	Non-Metallic	Graphite	Not Rated	-20° to 2000°F	White	No	Non-Flammable	Yes	3KE65
	16 oz. Brush-Top Can	Non-Metallic	Graphite	Not Rated	-20° to 2000°F	White	No	—	Yes	3KE66
LB 8060	0.7054 oz. Stick	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	—	Yes	3UU55
LB 8065	0.7054 oz. Stick	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	—	Yes	3UU54
LB 8070	0.7054 oz. Stick	Non-Metallic	Graphite	Not Rated	-20° to 2400°F	Black	No	Non-Flammable	Yes	39E525
LB 8150	0.25 oz Pillow Pack	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	2VFF2
	4 oz. Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	2VFF3
	8 oz. Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	4KM46
	1 lb. Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	45MY41
	1 gal. Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	33HE99
	5 gal. Pail	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	33HF01
LB 8504	1 lb. Can	Non-Metallic	Graphite	Not Rated	-20° to 900°F	Silver	No	Non-Flammable	Yes	45MY46
LB 8700	1 lb. Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	45MY50
LPS										
—	12 oz. Aerosol Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	49CT06
	½ lb. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	—	Yes	49CT04
	½ lb. Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	49CT07
	½ lb. Brush-Top Can	Non-Metallic	No Additives	Not Rated	-65° to 1800°F	Gray	No	—	—	49CT09
Rectorseal										
Break-Out	8 oz. Brush-Top Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F528
	12.76 oz. Aerosol Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	31ER11
	16 oz. Brush-Top Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F529
Copper-Rich	16 oz. Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F526
Moly-Rich	16 oz. Brush-Top Can	Non-Metallic	Molybdenum	Not Rated	-65° to 1050°F	Blue	No	Flammable	No	31ER10
Nickel-Rich	8 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Flammable	Yes	46F530
	16 oz. Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Flammable	Yes	31ER12
Sprayon										
LU 620	8 oz. Brush-Top Can	Copper	No Additives	Not Rated	0° to 2100°F	—	No	Non-Flammable	Yes	6KDV1
	16 oz. Brush-Top Can	Copper	Graphite	Not Rated	0° to 2100°F	—	No	Non-Flammable	Yes	6KDW2
Thomas & Betts										
Aluma-Shield	8 oz. Can	Aluminum	No Additives	Not Rated	-50° to 250°F	Copper	No	Flammable	Yes	3LN47
Kopr-Shield	8 oz. Can	Copper	No Additives	Not Rated	-50° to 250°F	Copper	No	Flammable	Yes	3LP03
	16 oz. Can	Copper	No Additives	Not Rated	-50° to 250°F	Gray	No	Flammable	Yes	3LP02



Jet-Lube Pail No. 10D823



Loctite Tube No. 2VFE7



Loctite Stick No. 3UU55



LPS Aerosol Can No. 49CT06



Rectorseal Brush Top Can No. 46F529



Sprayon Brush Top Can No. 6KDW2



Thomas & Betts Can No. 3LN47



Anti-Seize Technology Brush Top Can No. 23YC73



Jet-Lube Brush Top Can No. 26W746



Loctite Brush Top Tube No. 45MY36

ANTI-SEIZE TECHNOLOGY JET-LUBE LOCTITE

Marine Grade Anti-Seize

- Nonflammable
- Not NSF rated
- Odorless
- No additives
- Water resistant

Can withstand exposure to fresh and salt water without washing out and prevents components from corroding or locking together. This anti-seize is metal-free to prevent water and ground contamination.

Series	Container Size	For Use On Materials	Operating Temp. Range	Lubricant Color	Conductive	Item No.
Anti-Seize Technology						
44000	1 lb. Brush-Top Can	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 2400°F	Brown	No	**23YC73**
Jet-Lube						
Marine Grade	½ lb. Brush-Top Can	—	-65° to 1800°F	Gray	No	**26W747**
	1 lb. Brush-Top Can	—	-65° to 1800°F	Gray	No	**26W746**
Loctite						
LB 8023	7 oz. Brush-Top Tube	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	**45MY36**
	8 oz. Brush-Top Can	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	**3KE63**
	16 oz. Brush-Top Can	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	**3KE64**



Jet-Lube Brush-Top Can No. 26W744



LPS Brush Top Can No. 46F527



Sprayon Aerosol Can No. 12R256

ANTI-SEIZE TECHNOLOGY CRC JET-LUBE LOCTITE LPS RECTORSEAL Sprayon

Food Grade Anti-Seize

NSF H1 certified for use on food processing machinery or wherever incidental food contact is possible. It's white to show contaminants. It prevents fittings, bushings, flanges, and other components from sticking together or seizing.

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Conductive	Item No.
Anti-Seize Technology										
41000	8 oz. Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-30° to 2100°F	Off-White	No	Non-Flammable	No	**446G46**
	16 oz. Brush-Top Can	Non-Metallic	PTFE	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-50° to 2100°F	White	No	Non-Flammable	No	**34D506**
CRC										
—	8 oz. Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 1800°F	White	Yes	Non-Flammable	Yes	**4JB57**
	16 oz. Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 1800°F	White	Yes	Non-Flammable	Yes	**4JB58**
Jet-Lube										
White Knight	1 lb. Brush-Top Can	Aluminum	PTFE	—	-65° to 1800°F	White	No	Non-Flammable	Yes	**26W744**
Loctite										
LB 8014	2 oz. Tube	Non-Metallic	No Additives	Stainless Steel	-20° to 750°F	White	No	Non-Flammable	No	**45MY45**
	8 oz. Brush-Top Can	Non-Metallic	Molybdenum	Aluminum, Stainless Steel	-20° to 750°F	White	No	Non-Flammable	Yes	**9WGX5**
	32 oz. Can	Non-Metallic	Molybdenum	Stainless Steel	-20° to 750°F	White	No	Non-Flammable	Yes	**6JZV9**
LPS										
—	1 lb. Brush-Top Can	Non-Metallic	No Additives	Plastic, Stainless Steel	-65° to 1800°F	Off-White	No	Non-Flammable	—	**20Y618**
Rectorseal										
—	16 oz. Brush-Top Can	Non-Metallic	PTFE	Stainless Steel	-65° to 1800°F	Off-White	No	Flammable	Yes	**46F527**
Sprayon										
LU 621	15 oz. Aerosol Can	Non-Metallic	No Additives	Aluminum, Brass, Copper, Fiber Glass, Iron, PVC, Stainless Steel, Steel	5° to 1800°F	—	No	Flammable	Yes	**12R256**

Anti-Seize Technology Aerosol Can No. 23YA37



Loctite Can No. 3JDN2



ANTI-SEIZE TECHNOLOGY LOCTITE zep

Heavy-Duty Anti-Seize

- Not NSF rated
- Not odorless
- Conductive

Formulated with graphite and molybdenum (moly) to withstand extreme temperatures and pressure. It's commonly used in manufacturing, milling, and mining facilities to keep fittings and flanges from locking together.

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Flammability	Item No.
Anti-Seize Technology								
12000	10 oz. Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-300° to 2400°F	Black	Non-Flammable	**23YA56**
18000	12.5 oz. Aerosol Can	Aluminum, Copper	Graphite		-300° to 2000°F	Silver	Flammable	**23YA37**
	1 lb. Brush-Top Can	Aluminum, Copper	Graphite		-300° to 2000°F	Silver	Non-Flammable	**23YA40**
Loctite								
LB 8009	1 oz. Tube	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	**2VFF4**
	7 oz. Brush-Top Tube	Non-Metallic	Graphite		-20° to 2400°F	Black	Non-Flammable	**45MY35**
	9 oz. Brush-Top Can	Non-Metallic	Graphite		-20° to 2400°F	Black	Non-Flammable	**4KM74**
	18 oz. Can	Non-Metallic	Graphite		-20° to 2400°F	Black	Non-Flammable	**3JDN2**
	2 lb. 3 oz. Can	Non-Metallic	Graphite		-20° to 2400°F	Black	Non-Flammable	**45MY43**
	45 lb. Pail	Non-Metallic	Graphite		-20° to 2400°F	Black	Non-Flammable	**45MY44**
Zep								
Groovy	8 oz. Brush-Top Can	Aluminum, Copper	Graphite	Aluminum, Brass, Cast Iron, Copper, Plastic, Stainless Steel, Steel, Titanium	-65° to 2100°F	Gray	Flammable	**43NT22**

Nuclear Grade Anti-Seize

- Nonflammable
- Not NSF rated
- Not odorless
- Conductive

Used in nuclear, chemical, and pharmaceutical plants to prevent components in reactors, steam generators, turbines, and other equipment from sticking and seizing. Nuclear grade anti-seize has very low levels of halogens, sulfur, nitrates, nitrides, and low-melting metals, so it can be used in applications that require high purity.

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Item No.
Anti-Seize Technology							
63000	38 oz. Can	Stainless Steel	Graphite	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-50° to 2400°F	Silver	**446G51**
Jet-Lube							
Nikal	½ lb. Brush-Top Can	Nickel	Graphite	Stainless Steel	-65° to 2600°F	Silver	**30WK64**
Nuclear	1 lb. Brush-Top Can	Nickel		Stainless Steel	-65° to 2600°F	Silver	**30WK65**
Loctite							
LB N-1000	8 oz. Brush-Top Can	Copper	No Additives	Steel, Stainless Steel	-20° to 1800°F	Copper	**2VFF9**
	1 lb. Can	Copper		Steel, Stainless Steel	-20° to 1800°F	Copper	**45MY58**
	2 lb. Can	Copper		Steel, Stainless Steel	-20° to 1800°F	Copper	**45MY59**
LB N-5000	1 oz. Tube	Nickel	Graphite	Stainless Steel	-20° to 2400°F	Silver	**5XB46**
	8 oz. Brush-Top Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY53**
	1 lb. Brush-Top Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY57**
	2 lb. Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY55**
	8 lb. Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY56**
LB 8013	8 oz. Brush-Top Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**2VFF8**
	1 lb. Brush-Top Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**12Z243**
	2 lb. Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**45MY52**



Anti-Seize Technology Can No. 446G51



Jet-Lube Brush-Top Can No. 30WK64

Corrosion Inhibitors

Create a barrier between metal surfaces and corrosive materials like water and salt to increase the surface's corrosion resistance. They're a good choice for use on machinery and equipment in outdoor locations or humid or wet areas.

Series	Container Size	Lubricant Film	Outdoor Life Expectancy	Indoor Life Expectancy	Max. Operating Temp.	Item No.
Blaster						
Corrosion Stop	11 oz. Aerosol Can	Wet	Short	Medium	120°F	**16W548**
Corrosionx						
HD	12 oz. Aerosol Can	Wet	Medium	Medium	200°F	**4AAA7**
	1 gal. Jug	Wet	Medium	Medium	200°F	**4AAA8**
X	6 oz. Aerosol Can	Wet	Medium	Medium	200°F	**4DET1**
	16 oz. Spray Bottle	Wet	Medium	Medium	200°F	**4AAA2**
	16 oz. Aerosol Can	Wet	Medium	Medium	200°F	**4DET2**
CRC						
Aviation 3-36	11 oz. Aerosol Can	Wet	Medium	Medium	300°F	**14U852**
SP-350	11 oz. Aerosol Can	Wet	Medium	Medium	—	**3EEC2**
	5 gal. Pail	Wet	Medium	Medium	392°F	**4YPH9**
SP-400	10 oz. Aerosol Can	Dry	Medium	Medium	—	**2F143**
	5 gal. Pail	Dry	Medium	Medium	175°F	**4YPJ1**
Fluid Film						
AS	2.25 oz. Aerosol Can	Wet	Medium	Medium	Not Rated	**10N784**
	11¾ oz. Aerosol Can	Wet	Medium	Medium	Not Rated	**10N783**
Liquid A	5 gal. Pail	Wet	Medium	Long	Not Rated	**10N789**
	55 gal. Drum	Wet	Medium	Long	Not Rated	**10N790**
NAS	8 oz. Brush-Top Can	Wet	Medium	Medium	Not Rated	**10N785**
	1 gal. Can	Wet	Medium	Medium	Not Rated	**10N786**
	5 gal. Pail	Wet	Medium	Medium	Not Rated	**10N787**
	55 gal. Drum	Wet	Medium	Medium	Not Rated	**10N788**



LPS Spray Bottle No. 2JFD6



Rustlick Jug No. 1C187



WD-40 Specialist Aerosol Can No. 19L523

Series	Container Size	Lubricant Film	Outdoor Life Expectancy	Indoor Life Expectancy	Max. Operating Temp.	Item No.
LPS						
—	14 oz. Aerosol Can	Dry	Long	Long	-750°F	**4KK70**
LPS 3	11 oz. Aerosol Can	Wet	Medium	Medium	175°F	**6Y745**
	20 oz. Spray Bottle	Wet	Medium	Medium	175°F	**2JFD6**
	1 gal. Can	Wet	Medium	Medium	175°F	**20Y605**
	5 gal. Pail	Wet	Medium	Medium	175°F	**20Y601**
	55 gal. Drum	Wet	Medium	Medium	175°F	**20Y635**
Rustlick						
631	1 gal. Jug	Wet	—	Long	160°F	**1C187**
	5 gal. Pail	Wet	—	Long	160°F	**1C185**
B	1 gal. Jug	Dry	—	Short	212°F	**6VDR8**
	5 gal. Pail	Dry	—	Short	212°F	**1C197**
	55 gal. Drum	Dry	—	Short	212°F	**3ELN9**
Sprayon						
LU710	12 oz. Aerosol Can	Wet	Long	Medium	300°F	**6KDT2**
WD-40 Specialist						
Specialist	6.5 oz. Aerosol Can	Wet	Medium	Medium	250°F	**19L523**
Zep						
Iron Clad	13 oz. Aerosol Can	Dry	Short	Medium	500°F	**449W21**
Linebacker	14 oz. Aerosol Can	Dry	Medium	Long	174°F	**449W28**
Iron Clad	5 gal. Pail	Dry	Medium	Long	550°F	**449W20**

Container Size	Mold Release Base	Primary Additive	Mold Release Film	NSF Rating	Operating Temp. Range	Flammability	Water Resistant	Item No.
Food Grade Mold Release								
Sprayon								
12 oz. Aerosol Can	Silicone	Difluoroethane	Wet	H2 No Food Contact	40° to 550°F	Flammable	No	**4TA95**
General Purpose Mold Release								
CRC								
16 oz. Aerosol Can	Boron Nitride	No Additives	Wet	Not Rated	40° to 800°F	Flammable	Yes	**2F127**
16 oz. Aerosol Can	Vegetable Oil	No Additives	Wet	Not Rated	40° to 500°F	Non-Flammable	Yes	**2F128**
LPS								
11 oz. Aerosol Can	Silicone	No Additives	Dry	Not Rated	-40° to 500°F	Flammable	Yes	**4KK78**
16 oz. Aerosol Can	PTFE	No Additives	Dry	Not Rated	-40° to 500°F	Flammable	—	**4KK82**
Sprayon								
12 oz. Aerosol Can	PTFE	Difluoroethane	Dry	Not Rated	40° to 575°F	Flammable	No	**3NZC4**
12 oz. Aerosol Can	Silicone	Difluoroethane	Wet	H2 No Food Contact	40° to 550°F	Flammable	No	**3NZC3**
12 oz. Aerosol Can	Silicone	Difluoroethane	Wet	Not Rated	40° to 550°F	Flammable	No	**4TA93**
Stoner								
11 oz. Aerosol Can	Silicone	No Additives	Wet	Not Rated	0° to 120°F	Flammable	No	**35HY62**
12 oz. Aerosol Can	Petroleum Distillates	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY57**
12 oz. Aerosol Can	Silicone	Dimethyl Ether	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY36**
12 oz. Aerosol Can	Silicone	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY56**
12 oz. Aerosol Can	—	Dimethyl Ether	Wet	Not Rated	0° to 400°F	Flammable	No	**35HY45**
12 oz. Aerosol Can	PTFE	Dimethyl Ether	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY43**
12 oz. Aerosol Can	Petroleum Distillates	No Additives	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY59**
12 oz. Aerosol Can	Silicone	Dimethyl Ether	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY33**
Heavy Duty Mold Release								
CRC								
16 oz. Aerosol Can	Silicone	No Additives	Wet	Not Rated	40° to 600°F	Non-Flammable	Yes	**1HBL1**
Sprayon								
12 oz. Aerosol Can	Silicone	Propyl Bromide	Wet	Not Rated	70° to 600°F	Non-Flammable	No	**6KDU0**
Semi-Permanent Mold Release								
Stoner								
10 oz. Aerosol Can	Petroleum Distillates	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY50**
Mold Release Cleaner								
Sprayon								
16 oz. Aerosol Can	Mineral Spirits	No Additives	Wet	Not Rated	40° to 416°F	Non-Flammable	No	**6GDY8**



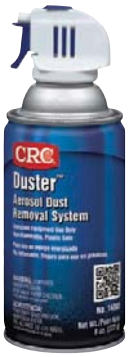
General Purpose CRC No. 2F128



Mold Release Cleaner Sprayon No. 6GDY8

Mold Release

Applied directly to molds to create a barrier that prevents materials from sticking to them. This allows the casted product to be released without damage to the mold or the product, so it increases the life of the mold, improves the final product's finish, and reduces production times.



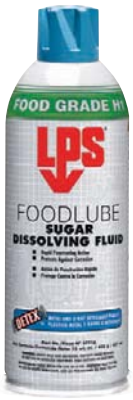
Duster™
No. 3VG76



CRC®
No. 4JB52



LPS®
No. 4JB59



LPS®
No. 29FY01



LPS®
No. 5YH78



Sprayon®
No. 1MEU7



Trim®
No. 6VAD2

Cleaners

CRC®

Duster™ Aerosol Dust Removal System—Powerful blast removes dirt, dust, and embedded debris on energized equipment. Nonflammable and safe on all plastics.

Gasket Remover—Solvent-based cleaner removes baked-on fiber gaskets, gasket adhesives, and sealants. Excellent on paint and varnish. Contains no methylene chloride.

Graffiti Remover—Gel cleaner removes or helps clean multilayered or painted-over graffiti, paints, pen marks, crayon, ink, lipstick, scuff marks, lacquers, and varnishes.

HydroForce® Butyl-Free Cleaner—Water-based formula is safe to use on most plastics. 10.5 to 12.2 pH. Low VOC content.

HydroForce® Foaming Citrus Cleaner—Clings to tough stains on vertical or inverted surfaces. Water-based formula is safe on all plastics. 10.9 pH.

HydroForce® Germicidal Foam Cleaner—Effective against HIV, staph, salmonella, and other bacteria. Leaves no residue; water-based. 11.8 to 12.8 pH.

HydroForce® Zero VOC Cleaners—Remove dirt, grease, and oil. pH 10.25. Plastic-safe, water-based formula.

HydroForce® Glass Cleaner—Ammonia-fortified, water-based formula with nonstreaking foaming action. 10 to 10.5 pH.

HydroForce® Stainless Steel Cleaner and Polish—Eliminates fingerprints and watermarks, leaving a protective, nongreasy barrier. Water-based formula. 10.55 pH.

LPS®

BFX All-Purpose Cleaner—Dye-free water-based cleaner is designed to remove dirt, grease, and oil. Not for use on magnesium. 11.8 pH.

FOODLUBE Sugar Dissolving Fluid—Removes sugars and fondants from surfaces. Lubricating film helps prevent new sugar deposits and provide short-term corrosion protection on metal surfaces. DETEX® container plastics are metal- and x-ray-detectable.

WorkPlace Hand Cleaner Towels—Waterless, deep cleaning, and nonscratching 1-step hand cleaner towel. Quickly removes embedded grime. Residue-free.

RENEWABLE LUBRICANTS™

RLI Food Grade™ Cleaner—Water-based, water soluble detergent is a biodegradable cleaner/degreaser that is safe for food processing plants and environmentally sensitive areas.

SPRAYON®

CD887 Coil and Fin Cleaner—Water-based, foaming cleaner for use on refrigeration and A/C coils. Nonflammable and noncorrosive. Safe on all metals.

Liqui-Sol™ Cleaners—CD880 General Purpose Cleaner is safe for metal, finished wood, porcelain, vinyl, leather, and laminated surfaces. CD885 Stainless Steel Cleaner cleans, polishes, brightens, and protects metal surfaces.

TRIM®

CLEAN 2430—Mild pH parts washing compound and corrosion inhibitor for multi-metal applications.

Task 2™ Grime Fighter—Nonbutyl, industrial metalworking surface cleaner can be diluted up to 100:1.

Description	Recommended Dilution	Container Type	Size	Mfr. Model	Item No.
CRC®					
Duster™ Aerosol Dust Removal System	Ready to Use	Aerosol Can	12 oz.	14085	**3VG76**
Gasket Remover	Ready to Use	Aerosol Can	16 oz.	03017	**5YK56**
Graffiti Remover	Ready to Use	Aerosol Can	16 oz.	03194	**12W318**
HydroForce® Butyl-Free Cleaner	Ready to Use	Trigger Spray Bottle	32 oz.	14401	**5YK91**
HydroForce® Butyl-Free Cleaner	Ready to Use	Bottle	1 gal.	14402	**5YK92**
HydroForce® Foaming Citrus Cleaner	Ready to Use	Aerosol Can	20 oz.	14400	**5YK90**
HydroForce® Germicidal Foam Cleaner	Ready to Use	Aerosol Can	20 oz.	14430	**4JB53**
HydroForce® Zero VOC Cleaner	Ready to Use	Trigger Spray Bottle	32 oz.	14446	**1RLN9**
HydroForce® Zero VOC Cleaner	Ready to Use	Bottle	1 gal.	14447	**1RLP1**
HydroForce® Glass Cleaner	Ready to Use	Aerosol Can	20 oz.	14412	**5YL03**
HydroForce® Glass Cleaner	Ready to Use	Trigger Spray Bottle	32 oz.	14411	**5YL02**
HydroForce® Stainless Steel Cleaner and Polish	Ready to Use	Aerosol Can	20 oz.	14424	**4JB52**
LPS®					
BFX All-Purpose Cleaner	Ready to Use	Trigger Spray Bottle	28 oz.	05528	**4JB59**
FOODLUBE Sugar Dissolving Fluid	Ready to Use	Aerosol Can	16 oz.	57716	**29FY01**
FOODLUBE Sugar Dissolving Fluid	Ready to Use	Trigger Spray Bottle	28 oz.	57728	**29FY02**
FOODLUBE Sugar Dissolving Fluid	Ready to Use	Jug	1 gal.	57701	**29FY03**
WorkPlace Hand Cleaner Towels	Ready to Use	Bucket	72 Count	09200	**5YH78**
Renewable Lubricants™					
RLI Food Grade™ Cleaner	Ready to Use	Pail	5 gal.	87814	**21A574**
Sprayon®					
CD887 Coil and Fin Cleaner	Ready to Use	Aerosol Can	18 oz.	SC0887000	**1MEU7**
CD880 Liqui-Sol™ General Purpose Cleaner	Ready to Use	Trigger Spray Bottle	14 oz.	SC0880LQ0	**4GUP7**
CD885 Liqui-Sol™ Stainless Steel Cleaner	Ready to Use	Trigger Spray Bottle	14 oz.	SC0885LQ0	**4GUR5**
Trim®					
CLEAN 2430	2 to 5%	Jug	1 gal.	CLEAN2430/1	**6VAD6**
CLEAN 2430	2 to 5%	Pail	5 gal.	CLEAN2430/5	**6VAD7**
Task 2™ Grime Fighter	100:1	Trigger Spray Bottle	32 oz.	TASK2GF/12QT	**6VAD2**



CRC®
No. 3EEC6



LPS®
No. 2C682



Renewable Lubricants™
No. 2VXJ9



Sprayon®
No. 6KDT9



WD-40® Specialist®
No. 44R238

Multipurpose Degreasers

- Ready-to-use

CRC® HydroForce® All Purpose—Water-based, low-foaming formulas remove grease, oil, and dirt. Safe on most plastics.

LPS® Industrial Strength—Water-based formula removes grease, oil, sludge, soot, ink, coffee, and other soils.

Renewable Lubricants™ Bio-Soy Orange™—Highly concentrated, nonfoaming cleaner/degreaser removes stubborn stains, greases, oily dirt, road grime, tar, glue, mildew, tree sap, and wax. For military, industrial, transportation, marine, agricultural, and residential use.

Sprayon® CD 1275 Heavy-Duty Degreaser—Lemon-scented, no-rinse cleaner/degreaser removes dirt, grease, soap scum, crayon, smoke film, and heel marks.

WD-40® Specialist® Machine & Engine—Quickly removes grease, oil, dirt, and grime from machines and engines. Sprays up to 5 ft.

Description	Container Type	Container Size	NSF Rating	Mfr. Model	Item No.
CRC®					
HydroForce® All Purpose	Aerosol Can	20 oz.	C1	14406	**5YK96**
	Trigger Spray Bottle	32 oz.	C1	14407	**3EEC6**
HydroForce® Industrial Strength	Jug	1 gal.	C1	14416	**3EED1**
LPS®					
Precision Clean	Aerosol Can	18 oz.	C1	02720	**3HY53**
	Trigger Spray Bottle	28 oz.	C1	02728	**2C682**
	Jug	1 gal.	C1	02701	**2C670**
Renewable Lubricants™					
Bio-Soy Orange™	Trigger Spray Bottle	12 oz.	Not Rated	86642	**2VXJ9**
	Jug	1 gal.	Not Rated	86643	**2VXK1**
Sprayon®					
CD 1275 Heavy-Duty Degreaser	Spray Bottle	32 oz.	C1	S1275T1232	**6KDT9**
	Jug	1 gal.	C1	S012750401	**6KDW7**
WD-40® Specialist®					
Machine & Engine	Aerosol Can	18 oz.	C1	300070	**44R238**



CRC®
No. 3EED5



LPS®
No. 2C654



Sprayon®
No. 6KHF1

Natural Citrus-Based Degreasers

- Ready-to-use

CRC®

Citrus Degreaser—D-limonene-based cleaner/degreaser dissolves and removes grease, oil, lubricants, and other contaminants. Noncorrosive, nonabrasive, no residue.

Citrus Degreaser MUO—For dissolving and removing grease, oil, lubricants, and contaminants without requiring water to wash off and without leaving a residue.

HydroForce® Super Citrus™—Dissolve grease, oil, ink, grime, and adhesives. Water-based and can be diluted with water. 10 pH (aerosol).

Natural Degreaser™—Contains no Class I or Class II ozone-depleting chemicals or chlorinated solvents. Dielectric strength: 28,600V.

LPS®

PreSolve® Orange—Ideal for removing grease, tar, and oils. Flash point above 100°F. Low residue formula is safe on all metals and most plastics.

PF® Solvent—Full-strength solvent removes grease and oil and can be use in parts washers, dip tanks, and ultrasonic cleaners. Contains no chlorinated solvents.

SPRAYON®

CD™ 757 Heavy-Duty Citrus Degreaser—Removes dirt, grease, oil, and graffiti.

Description	Container Type	Container Size	NSF Rating	Mfr. Model	Item No.
CRC®					
Citrus Degreaser	Trigger Spray Can	16 oz.	C1	14171	**4JB50**
	Aerosol Can	20 oz.	C1	14170	**3EED5**
	Jug	1 gal.	C1	14172	**4JB51**
Citrus Degreaser MUO	Aerosol Can	20 oz.	C1	14970	**21GT84**
HydroForce® Super Citrus™	Aerosol Can	20 oz.	C1	14440	**4JB54**
	Jug	1 gal.	C1	14441	**3EEC7**
	Drum	55 gal.	C1	14443	**3APL9**
Natural Degreaser™	Aerosol Can	20 oz.	C1	14005	**3EED6**
LPS®					
PreSolve® Orange	Aerosol Can	15 oz.	C1	01420	**2C654**
	Trigger Spray Bottle	20 oz.	C1	01422	**2JFD8**
PF® Solvent	Aerosol Can	14 oz.	Not Rated	61420	**4JB68**
	Bottle	32 oz.	Not Rated	61432	**4JB69**
Sprayon®					
CD™ 757 Heavy-Duty Citrus Degreaser	Trigger Spray Bottle	14 oz.	C1	SC0757LQ0	**4GUP5**
	Aerosol Can	16 oz.	C1	SC0757000	**6KHF1**



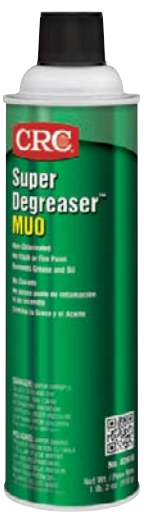
Heavy-Duty
No. 1D265



CRC® Lectra Clean®
No. 3EEE2



CRC® Quick Clean™
No. 1D259



CRC® Super Degreaser™
No. 14U851



LPS ® HDX Heavy Duty
No. 4KK67



Sprayon ® EL™ 848
No. 3KB69

Solvent-Based Degreasers

- Ready-to-Use (RTU)

CRC®

Cable Clean®—Combines a high-voltage splice and termination cleaner with a nonchlorinated, industrial-strength degreaser.

Chlor-Free®—Heavy-duty nonchlorinated degreaser/solvent provides rapid turnaround where low-flashpoint solvents can be used. Use caution on plastics.

Fast Dry—Heavy-duty, nonchlorinated degreaser/solvent removes oil, grease, and other contaminants from electrical equipment. Provides rapid turnaround where low-flashpoint solvents can be used. Use caution on plastics.

Heavy-Duty Degreaser—Degreaser/cleaner dissolves grease, oil, and sludge. Nonconductive, noncorrosive, nonstaining solvent-based formula.

Heavy Duty Degreaser II—Cleans surfaces without residue buildup. Use caution on plastics. Nonchlorinated.

Insta-Solv®—Nonchlorinated, noncorrosive degreaser aggressively dissolves grease, dirt, and oils from most nonplastic surfaces. VOC levels meet SCAQMD requirements.

Lectra Clean®—Quickly evaporates, no residue. Nonstaining. Dielectric strength: 50,500V. VOC-free formula.

Lectra Clean® II —Zero VOC, low-odor formula cleans surfaces without residue buildup. Nonchlorinated VOC-free formula.

Quick Clean™—Degreaser/solvent evaporates quickly and without residue. Nonflammable formula should be spot-tested before use on plastics and paints.

Super Degreaser™—Degreaser/cleaner is a nonchlorinated alternative to 1,1,1-trichloroethane. Nonstaining, nonconductive, and residue-free.

T-Force®—Quickly dissolves grease, oil, and sludge. Noncorrosive, nonstaining, and nonconductive.

LPS®

A-151—Removes oil, grease, and other contaminants in dip tanks, parts washers, and ultrasonic cleaners.

G-49™ Orange—High solvent strength for removing grease, grime, oil, and adhesives from cleaning equipment. Leaves no residue.

EFX®—Fast-acting, heavy-duty solvent degreases and cleans in a single operation. Leaves no residue. Ideal for cleaning metals and most plastics.

EVR™ Clean Air—Cleans metals with no ozone-depleting compounds.

HDX Heavy-Duty—Nonflammable, nonconductive, fast-acting formula removes oil, grease, wax, dirt, moisture, tar, and other contaminants.

Instant Super Degreaser—Nonflammable, nonconductive, fast-evaporating degreaser/cleaner cleans grease and oil from all metals.

ZeroTri®—Fast-acting, heavy-duty degreaser.

SPRAYON®

EL™ 749 Electrical—Heavy-duty cleaner removes dirt, oil, grease, wax, and tar from nonenergized electrical equipment. No residue.

EL™ 848 Flash-Free Electrical—Electrical cleaner/degreaser penetrates instantly to remove dirt, oil, grease and wax. Nonflammable and noncorrosive. Evaporates quickly and leaves no residue.

EL™ 2846 Nonchlorinated Electrical—Nonflammable degreaser/cleaner removes dirt, oil, grease, and wax. Safe on ferrous and nonferrous materials and most plastics.

Description	Container Type	Container Size	NSF Rating	Mfr. Model	Item No.
CRC®					
Cable Clean®	Aerosol Can	20 oz	K2	02064	**1HBK2**
Chlor-Free®	Aerosol Can	20 oz	K2	03185	**3EEC3**
Fast Dry	Aerosol Can	20 oz	K2	02185	**4YPJ6**
Heavy-Duty Degreaser	Aerosol Can	20 oz	K1	03095	**1D265**
Heavy Duty Degreaser II	Aerosol Can	15 oz	K1, K2	03120	**1D264**
Insta-Solv®	Aerosol Can	20 oz	K1	03100	**4YPJ7**
Lectra Clean®	Aerosol Can	20 oz	K2	02018	**3EEE2**
Lectra Clean® II	Aerosol Can	20 oz	K1, K2	02120	**5VE64**
Quick Clean™	Aerosol Can	20 oz	K1	03180	**1D259**
Super Degreaser™	Trigger Spray Can	16 oz	K2	03114	**5VE56**
Super Degreaser™, Manufacturing use only	Aerosol Can	20 oz	K1	03910	**14U851**
T-Force®, Manufacturing use only	Aerosol Can	20 oz	K1	03915	**36C086**
T-Force®	Aerosol Can	20 oz	K1	1750016	**459V68**
LPS®					
A-151	Aerosol Can	15 oz	C1	04320	**4ETV6**
G-49® Orange	Aerosol Can	15 oz	Not Rated	06420	**4XME9**
EFX®	Aerosol Can	15 oz	Not Rated	01820	**20Y612**
EVR™ Clean Air	Aerosol Can	15 oz	Not Rated	05220	**2HYX7**
HDX Heavy-Duty	Aerosol Can	19 oz	Not Rated	01020	**4KK67**
Instant Super Degreaser	Aerosol Can	20 oz	C1	00720	**20Y603**
Zero Tri®	Aerosol Can	15 oz	C1	03520	**2C691**
Sprayon®					
EL™ 749 Electrical	Aerosol Can	15 oz	K2	SC0749000	**6KDR3**
EL™ 848 Flash-Free	Trigger Spray Bottle	14 oz	K2	SC0848LQ0	**4GUP8**
EL™ 848 Flash-Free	Aerosol Can	16 oz	K2	SC0848000	**6KDR6**
EL™ 848 Flash-Free	Aerosol Can	20 oz	K2	SC0848T00	**3KB69**
EL™ 2846 Non-Chlorinated Electrical	Aerosol Can	18 oz	K2	S20846000	**1MET9**

Contact Cleaners

- Ready-to-use

CRC®

Dry quickly, leaving no residue. Safe on most plastics.

Contact Cleaner 2000®—Removes contaminants. Not recommended for use on Noryl® or polycarbonate plastics. Nonconductive and noncorrosive.

Contact Cleaner 2000® VC Precision—Evaporates quickly with no flash or fire point. Alternative to 141b-based cleaners.

Cable Clean®—Removes contaminants from the semiconductive core of high-voltage cables during splicing and termination. Nonflammable, noncorrosive, nonconductive, and nonstaining.

Contact Cleaner—Precision cleaner is nonflammable, noncorrosive, nonstaining, and nonchlorinated.

Contact Cleaner and Protectant—Penetrates surface pores, cleans away contaminants, and leaves a microscopic, corrosion-resistant silicone film. Noncorrosive and nonstaining.

CO® Contact Cleaner—Cleaner is nonflammable, noncorrosive, nonstaining, and nonchlorinated.

HF™ Contact Cleaner—Precision cleaner is made of petroleum distillate.

Isopropyl Alcohol Precision Cleaner—Removes polar soils and other charged contaminants. Nonconductive and noncorrosive.

NT™ Precision Cleaner—Nonflammable, nonconductive, and noncorrosive. Alternative to HCFC-141b cleaners.

QD® Contact Cleaner—Petroleum distillate/alcohol blend removes soil and other contaminants from electronic components. For lower flashpoint applications.

XT-2000™ Precision Cleaner—Removes contaminants from electronic equipment. Nonflammable, nonconductive, and noncorrosive.

Electronic Component Cleaner—No flash or fire point. Evaporates rapidly, leaves no residue.

Electric Parts Cleaner—Fast evaporation, leaves no residue. Nonflammable, noncorrosive, nonconductive, and nonstaining.

Lectra Force™—Emits lower VOCs and has no flash or fire point. Nonconductive, noncorrosive, and nonstaining.

LPS®

CFC Free Electro—Fast drying, leaves no residue. Safe on plastics.

CFC Free NU—Cleaner and degreaser is for electrical/electronic parts. Fast drying, leaves no residue. Safe on plastics. Nonconductive.

Electra-X 2.0—For use on or near energized electronic equipment. Fast evaporating. Nonflammable and nonconductive.

Electro—Fast-evaporating cleaner is for electronic and fine parts. Safe on plastics. Nonflammable.

Electro-140°—Superior wetting and penetrating action, leaves no residue. Safe to use on plastics. Nonconductive.

Micro-X—Fast-evaporating, leaves no residue on delicate electrical and electronic parts. Safe on plastics.

Micro-X NU—Quickly removes contaminants from electronic and fine parts. Safe on plastics.

NoFlash® Electro—Nonflammable solvent blend removes containments from the internal components of electronic or precision equipment.

NoFlash 2.0 Electro—For contacts, controls, and circuit breakers. Fast evaporating, requires no rinsing. Nonflammable, nonconductive, and nonbrominated.

REVO 66—Dries quickly, leaving no residue. Nonconductive and nonbrominated. Alternative to HCFC-based cleaners.

SPRAYON®

EL2020 Plastic Safe—Fast-evaporating, leaves no residue. Safe on all metals and most plastics, and can be applied while equipment is operating. Nonflammable. Alternative to TF113.

EL2206 Electro Wizard™—Removes, dissolves, and rinses away foreign contaminants. Safe on all plastics. Alternative to HCFC-141b.

EL2302—Quickly dries, cleans sensitive equipment and precision instruments, leaving no residue. For use on nonenergized equipment. Safe on most plastics. Alternative to TF113 and HCFC-141b.

EL2001—Electrical cleaner/lubricant removes contaminants from high-precision electrical equipment, leaving a microscopic corrosion-proof film. Dielectric strength: 36,700V.

WD-40® SPECIALIST®

Contact Cleaner—Removes dirt, oil, flux residue and condensation away from sensitive electronics and electrical equipment. Dries quickly, leaving no residue.



HF™ Contact Cleaner
No. 1D263



MICRO-X
No. 4JB63



EL™2206 Electro Wizard™
No. 39H843



Contact Cleaner
No. 44R239

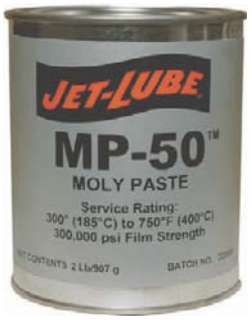
Description	Container Type	Net Weight	Standards	Mfr. Model	Item No.
CRC®					
Contact Cleaner 2000®, Industrial	Aerosol Can	13 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03150	**12W317**
Contact Cleaner 2000® VC Precision Cleaner	Aerosol Can	13 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved, Boeing D6-17487, Revision P- Solvent Cleaners; General Cleaning	02240	**2EAX1**
Cable Clean® Splice Cleaner	Aerosol Can	19 oz.	RoHS Compliant	02069	**4YPJ4**
Contact Cleaner	Aerosol Can	14 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03070	**1D266**
Contact Cleaner and Protectant	Aerosol Can	10 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03140	**1D261**
CO® Contact Cleaner	Trigger Spray	10 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	02017	**2YE16**
HF™ Contact Cleaner	Aerosol Can	11 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03125	**1D263**
Isopropyl Alchohol Precision Cleaner	Aerosol Can	12 oz.	RoHS Compliant, NSF K1,K2 Registered, SNAP Approved	03201	**1HBK5**
NT™ Precision Cleaner	Aerosol Can	12 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03205	**3FB96**
QD® Contact Cleaner	Aerosol Can	11 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved, Boeing D6-17487, McDonall	03130	**1D262**
QD® Contact Cleaner	Trigger Spray	14 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved, Boeing D6-17487, McDonall	02133	**6RA76**
QD® Contact Cleaner	Pail	5 gal.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03131	**5YK64**
QD® Contact Cleaner	Drum	55 gal.	RoHS Compliant, NSF K2 Registered, SNAP Approved	03132	**3APN4**
XT-2000™ Precision Cleaner	Aerosol Can	12 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved, Boeing D6-17487	03155	**1XFF1**
Electronic Component Cleaner	Aerosol Can	13 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved, Boeing D6-17487 - Revision P	02200	**32UN51**
Electrical Parts Cleaner	Aerosol Can	19 oz.	RoHS Compliant, NSF K2 Registered	02180	**4YPJ5**
Lectra Force™ Electric Cleaner	Aerosol Can	18 oz.	RoHS Compliant, NSF K2 Registered, SNAP Approved	02115	**45FG57**
LPS®					
CFC Free Electro Contact Cleaner	Aerosol Can	16oz	NSF K2	03116	**2C687**
CFC-Free NU Contact Cleaner	Aerosol Can	11 oz.	NSF	05416	**2HCP2**
Electra-X 2.0 Contact Cleaner	Aerosol Can	12 oz.	Not Rated	07316	**40WY44**
Electro Contact Cleaner	Aerosol Can	14 oz.	CARB, OTC	00416	**20Y602**
Electro-140° Contact Cleaner	Aerosol Can	16 oz.	NSF® K2 Registered	00916	**2C642**
MICRO-X Contact Cleaner	Aerosol Can	11 oz.	NSF	04516	**4JB63**
MICRO-X NU Contact Cleaner	Aerosol Can	11 oz.	NSF	06616	**4XMF1**
NoFlash® Electro Contact Cleaner	Aerosol Can	12 oz.	NSF	04016	**2F017**
NoFlash 2.0 Electro Contact Cleaner	Aerosol Can	12 oz.	NSF K2	07416	**40WY43**
REVO 66 Contact Cleaner	Aerosol Can	16 oz.	NSF	04416	**2HYX5**
Sprayon®					
EL™2020 Plastic Safe Contact Cleaner	Aerosol Can	12 oz.	NSF Registered K2	S02020000	**6KDW5**
EL™2206 Electo Wizard™ Contact Cleaner	Aerosol	10 oz.	NSF Registered K2	SC2206000	**39H843**
EL™2302 Contact Cleaner	Aerosol Can	11 oz.	NSF Registered K2	SC2302000	**6KHF3**
EL™2302 Contact Cleaner	Trigger Spray	14 oz.	NSF Registered K2	SC2302LQ0	**4GUP4**
EL™ 2001 Contact Cleaner	Aerosol Can	16 oz.	NSF Registered K2	S02001000	**6KDT5**
WD-40® Specialist®					
Contact Cleaner	Aerosol Can	11 oz.	NSF Registered K2	300554	**44R239**



No. 39F945



No. 33ME85



No. 2YKK6



No. 4ZF49



No. 1MUC1



No. 52YA13

Multipurpose Greases

CRC®

General Purpose—For bearings and on cables, chains, latches, machinery, open gears, and overhead door tracks.

CITGO

Premium Lithium EP—Lubricates journal and antifriction bearings.

Lithoplex® MP—Helps minimize wear in heavily loaded components. Offers corrosion and oxidation resistance.

Lithoplex® CM and HM—Provide wear protection in construction and mining applications. Polymer-fortified for improved adhesion and water resistance. Lithoplex CM has 3% MoS_2. Lithoplex HM has 5% MoS_2.

Lithoplex® RT—Tacky, moly-free formula provides good adhesion and water resistance.

JET-LUBE®

MP-50™ Moly Paste—Lead-free, water-resistant low-friction grease helps prevent corrosion.

Temp-Guard™—Contains graphite and molybdenum disulfide for low friction and extreme pressure capabilities.

MOBIL™

Mobilith® SHC 220—Lubricates at temperature extremes; rust-, corrosion-, and oxidation-resistant.

Mobillith SHC™—No. 4ZF48 is for extreme pressure applications. No. 4ZF49 is for grease-lubricated rolling-element bearings in electric motors.

Mobilgrease® XHP 222—Provides lubrication and oxidation stability plus rust, corrosion, and water resistance. Use for automotive, construction, marine applications and farm equipment.

Mobilgrease® XTC—Resists oil separation in high-speed flexible gear and grid coupling applications.

Mobilux® EP 1 and 2—EP 1 can be pumped at low temperatures. EP 2 is recommended for antifriction and plain bearings, bushings, and pins under normal operating conditions.

WD-40® SPECIALIST®

High Temperature—For high-speed bearings in high-temperature applications with heavy mechanical loads.

Extreme Pressure—Offers protection against wear and high loads in heavy-duty applications.

Marine Grade Water Resistant—For moisture and corrosion protection for equipment that's exposed to the damp weather conditions.

B'LASTER

Penetrating Grease—Penetrates rust and corrosion to lubricate and protect metal surfaces. For use in agriculture, construction, mining, and automotive applications.

Heavy-Duty Grease—Protects and lubricates in temperatures up to 500°F. Great for automotive, construction, mining, and farm equipment.

Waterproof Marine Grease—Provides protection, even with extended exposure to saltwater and saltwater mist.

Extra-Tacky Red Grease—Provides anti-wear and extreme pressure protection, in temperatures up to 550°. Rust- and -corrosion resistant.

Pro-Grade Multipurpose Grease—Water-resistant formula provides lubrication under moderate loads. Protects against rust and corrosion.

SUPER LUBE®

O-Ring Silicone Grease—For lubricating, sealing, and conditioning O-rings and other regulator and valve system components.

Description	Grease Thickener	Lubricant Additives	Base Oil	NLGI Grade	Container Type	Container Size	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC®											
General Purpose	Lithium	—	Petroleum	2	Pail	35 lb.	Amber	250°F	0°F	SL3315	**39F945**
Citgo											
Premium Lithium EP	Lithium	—	Mineral	2	Pail	35 lb.	Amber	250°F	5°F	655212001022	**33ME70**
Premium Lithium EP	Lithium	—	Mineral	2	Drum	120 lb.	Amber	250°F	5°F	655212001072	**33ME71**
Lithoplex® MP	Lithium Complex	Zinc	Mineral	2	Tube	14 oz.	Gray	350°F	0°F	655340001080	**52XN91**
Lithoplex® CM	Lithium Complex	Zinc	Mineral	1	Tube	14 oz.	Gray	350°F	-5°F	655351001080	**52XN93**
Lithoplex® HM	Lithium Complex	—	Mineral	2	Cartridge	14 oz.	Gray	325°F	-10°F	655357001080	**33ME85**
Lithoplex® RT	Lithium Complex	Zinc	Mineral	1	Tube	14 oz.	Red	350°F	0°F	655343001080	**52XN94**
Lithoplex® RT	Lithium Complex	—	Mineral	2	Pail	35 lb.	Red	325°F	-10°F	655344001044	**33ME73**
Jet-Lube®											
MP-50™ Moly Paste	Clay	Molybdenum	Mineral	3.5	Can	1 lb.	Blue	750°F	-300°F	28003	**2YKK6**
MP-50™ Moly Paste	—	Molybdenum	—	—	—	2 lb.	—	750°F	-300°F	28007	**5CHT5**
Temp-Guard™	—	—	Synthetic	1.5	Cartridge	14 oz.	Black	600°F	-10°F	31850	**26W739**
Mobil™											
Mobilgrease® SHC 220	Lithium Complex	—	Synthetic	2	Cartridge	13.4 oz.	Red	300°F	-40°F	121952	**5ZN11**
Mobillith SHC™	Lithium Complex	—	Synthetic	1.5	Cartridge	13.7 oz.	White	350°F	-40°F	122129	**4ZF48**
Mobillith SHC™	Lithium Complex	—	Synthetic	2	Cartridge	13.4 oz.	Red	350°F	-40°F	122112	**4ZF49**
Mobilgrease® XHP 222	Lithium Complex	—	Mineral	2	Cartridge	13.7 oz.	Blue	284°F	0°F	121929	**1MUC1**
Mobilgrease® XHP 222	Lithium Complex	—	Mineral	2	Pail	5 gal.	Blue	284°F	0°F	105842	**1MUC2**
Mobilgrease® XTC	Lithium	—	Mineral	1	Cartridge	14 oz.	Tan	120°F	-30°F	105804	**2RV27**
Mobilux® EP 1	Lithium	—	Mineral	1	Cartridge	13.7 oz.	Brown	120°F	-20°F	121093	**2RV29**
Mobilux® EP 2	Lithium	—	Mineral	2	Cartridge	13.7 oz.	Brown	266°F	-4°F	122136	**2RV31**
Mobilux® EP 2	Lithium	—	Mineral	2	Pail	5 gal.	Tan	130°F	-20°F	105763	**5NJT9**
WD-40® Specialist®											
High Temperature	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz.	Green	325°F	-40°F	300394	**52YA11**
Extreme Pressure	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz.	Red	325°F	-40°F	300400	**52YA12**
Marine Grade Water Resistant	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz.	Blue	325°F	-40°F	300417	**52YA13**
B'laster											
Penetrating Grease	Polymer	Distillates	Synthetic	—	Cartridge	14 oz.	Orange	500°F	97°F	GR-14C-PB	**443U98**
Heavy-Duty Grease	Calcium Sulfonate	Calcium Sulfonate	Petroleum	2	Cartridge	14 oz.	Green	500°F	97°F	GR-14C-HDG	**443U99**
Waterproof Marine Grease	Calcium Sulfonate	Calcium Sulfonate	Petroleum	2	Cartridge	14 oz.	Blue	500°F	97°F	GR-14C-WP	**443V01**
Extra Tacky Red Grease	Lithium Complex	Lithium	Petroleum	2	Cartridge	14 oz.	Red	500°F	97°F	GR-14C-HTR	**443V02**
Pro-Grade Multi-Purpose Grease	Lithium Complex	Lithium	Petroleum	2	Cartridge	14 oz.	Amber	500°F	97°F	GR-14C-MP	**443V03**
Super Lube											
O-Ring Silicone Grease	Silicone	No Additives	Silicone	2	Tube	3 oz.	White	500°F	-40°F	93003	**436P94**
O-Ring Silicone Grease	Silicone	No Additives	Silicone	2	Can	14.1 oz.	White	500°F	-40°F	93016	**436P95**



CRC®
No. 4JB56



Jet-Lube®
No. 5CHP4



Mobil™
No. 2RV34



Prtrochem®
Foodsafe®
No. 3NLK4



Sta-Lube®
No. 13P453



Super Lube®
No. 44N732



Tri-Flow
No. 4TA91

Food Grade Multipurpose Greases

CRC®

Greases—No. 4JB56 is formulated on a premium aluminum complex base. No. 12G584 has a smooth, buttery texture and is a premium-grade aluminum complex grease. No. 12G587 is plastic-safe and particularly useful in high-temperature applications. Extreme Duty No. 12G591 is a plastic-safe grease with excellent water-washout resistance.

JET-LUBE®

FMG™—Food Machine Grease is formulated for a wide variety of operating conditions, with extreme water resistance to stay in place even after frequent washdowns. Polymer additives provide adhesive and cohesive strength to resist pound-out under shock loads. It is recommended to lubricate all types of bearings in food processing machinery.

MOBIL™

Mobilgrease™ FM 222—High-performance multipurpose formula is designed to lubricate food processing machinery in varied environments, from oven to freezer operations, and over a wide range of speeds and loads. The grease withstands periodic washdown and cleaning operations, with excellent water resistance and rust inhibition and good protection against wear and shock loads.

PETROCHEM® FOODSAFE®

PETRO-GARD® FMG-2—Formulated with special additives selected to provide excellent water, oxidation, and corrosion resistance, plus corrosion prevention and excellent antiwear and extreme-pressure (EP) properties. The product stays in place between washdown cycles to help boost equipment and lubricant life in wet conditions.

SYN GEL FG-750—High-temperature gel grease seals bearings against water and other contaminants and provides corrosion protection. It remains stable under high shear and high temperatures, and will not melt, drip, carbonize, or emulsify. The lubricant is highly water-resistant and performs exceptionally well in wet applications.

STA-LUBE®

Super White™ Multipurpose—High-purity greases provide superior performance in any weather and most temperatures. Bright white color is great where appearance is important.

SUPER-LUBE®

Multipurpose Grease with Syncolon® PTFE—Heavy-duty lubricant is made with proprietary Syncolon PTFE micropowders combined with synthetic base fluids for longer lasting protection against friction, wear, rust, and corrosion. Designed to help reduce downtime, increase productivity, and extend machinery life. The formula has good mechanical stability, won't melt or separate, and does not evaporate or form gummy deposits.

Silicone Lubricating Compound with Syncolon® PTFE—Synthetic grease offers excellent water protection and moisture barrier over a wider operating range than petroleum-based lubes. It's good for plastic gears and threads and as a damping medium for dash pots. Also lubricates O-rings, electrical motor and slow-speed bearings, brake parts, weather stripping, trunk seals, speedometer cables, window channels, hood strips, pads, rubber gaskets, and other rubber components.

TRI-FLOW®

Synthetic Grease with PTFE—Compatible with most rubbers and plastics; excellent for O-rings. Nonstaining and waterproof. Pure synthetic provides added durability and performance.

Description	Grease Thickener	Base Oil	NLGI Grade	Container Type	Container Size	NSF Rating	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC®											
Multipurpose Food Grade Grease	Aluminum Complex	Mineral	2	Cartridge	14 oz.	H1	White	300°F	-30°F	SL35600	**4JB56**
	Aluminum Complex	Mineral	2	Pail	35 lb.	H1	White	300°F	-30°F	SL35605	**12G584**
Synthetic Food Grade Grease	Silica	Synthetic	2	Cartridge	14 oz.	H1	Clear	350°F	-20°F	SL35610	**12G587**
Extreme Duty Food Grade Grease	Calcium Sulfonate	Mineral	2	Cartridge	14 oz.	H1	Tan	400°F	-20°F	SL35615	**12G591**
Jet-Lube®											
FMG™	Aluminum Complex	Mineral	2	Cartridge	14 oz.	H1	White	400°F	0°F	30150	**5CHP4**
Mobil™											
Mobilgrease™ FM 222	Aluminum Complex	Mineral	2	Cartridge	13.7 oz.	H1	White	500°F	0°F	121956	**2RV34**
Petrochem® Foodsafe®											
PETRO-GARD FMG-2	Aluminum Complex	Semi-Synthetic	2	Cartridge	14 oz.	H1	White	300°F	-22°F	PETRO-GARD FMG-2	**3NLK5**
SYN GEL FG-750	—	Synthetic	2	Cartridge	14 oz.	H1	White	500°F	-4°F	SYNGEL FG-750	**3NLK4**
Sta-Lube®											
Super White™ Multipurpose	Lithium	Mineral	2	Tube	10 oz.	H2 No Food Contact	White	300°F	0°F	SL3360	**39F946**
	Lithium	Mineral	1.5	Cartridge	14 oz.	H2 No Food Contact	White	300°F	0°F	SL3150	**13P453**
	Lithium	Mineral	1.5	Pail	35 lb.	H2 No Food Contact	White	300°F	0°F	SL3155	**39F944**
Super-Lube®											
Multipurpose Grease With Syncolon® (PTFE)	PTFE	Synthetic	2	Pail	30 lb.	H1	White	450°F	-45°F	41030	**44N724**
Silicone Lubricating Grease With Syncolon® (PTFE)	—	Synthetic	2	Cartridge	14.1 oz.	H1	White	500°F	-40°F	92150	**44N732**
Tri-Flow®											
Synthetic Grease with PTFE	PTFE	Synthetic	2	Cartridge	14 oz.	H1	White	400°F	-10°F	TF220211	**4TA91**



ThermaPlex® Multi-Purpose No. 4UJ42



Jet-Lube® EP No. 6HAL9

ExxonMobil LPS JET-LUBE Sta-Lube

Bearing Grease

- Grease container: Cartridge

MOBIL™

Polyrex™ EM—Super-premium grease is formulated for electric-motor bearings, particularly vertically mounted bearings or very large motors that may require stiffer grease consistency.

LPS® THERMAPLEX®

Multipurpose—For use as a high-performance, multifunctional bearing grease in general purpose applications.

Hi-Temp—Resists carbonization, vibration, and bearing failure. Extends relubrication intervals. Excellent resistance.

Hi-Load—Provides long-lasting lubrication for bearings subjected to shock loading and vibration. Offers antiwear properties and corrosion resistance.

Aqua—Provides long-lasting lubrication even when fully submerged in fresh or salt water.

FoodLube—Nonstaining, nonemulsifying formula for use in food processing and other clean industries.

CS Moly—Calcium sulfonate formula with molybdenum disulfide for high load carrying capacity. Reduces wear from vibration. Water- and corrosion-resistant.

JET-LUBE®

EP—Bearing grease contains an extreme-pressure additive that enhances shear stability in high temperatures.

STA-LUBE®

Sta-Plex™ Extreme Pressure Grease—Multipurpose, lithium complex formula contains extreme pressure, anti-oxidation, and anti-wear additives. For high temperature applications and for use in ball and roller bearings and in assembly/machining equipment.

Description	Container Size	NSF Rating	Grease Thickener	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
Mobil™								
Polyrex™ EM	13.7 oz.	Not Rated	Polyurea	Blue	320°F	-4°F	124050	**5XB54**
LPS® ThermaPlex®								
Multipurpose	14.1 oz.	Not Rated	Lithium Complex	Blue	350°F	-22°F	70614	**4UJ42**
Hi-Temp	14.1 oz.	Not Rated	Lithium Complex	Tan	392°F	-15°F	70214	**4UJ38**
Hi-Load	14.1 oz.	Not Rated	Lithium Complex	Black	350°F	-22°F	70414	**4UJ40**
Aqua	14.1 oz.	Not Rated	Aluminum Complex	Amber	300°F	-4°F	70514	**4UJ41**
FoodLube	14.1 oz.	H1 Food Grade	Aluminum Complex	White	302°F	-4°F	70114	**38F843**
CS Moly	14.1 oz.	H2 No Food Contact	Calcium Sulfonate	Gray	425°F	0°F	70814	**4FPW8**
Jet-Lube®								
EP	14 oz.	Not Rated	Lithium	Purple	325°F	0°F	30350	**6HAL9**
Sta-Lube®								
Sta-Plex™ Extreme Pressure Grease	14 oz.	H2 No Food Contact	Lithium Complex	Red	325°F	-20°F	SL3190	**5EVZ0**



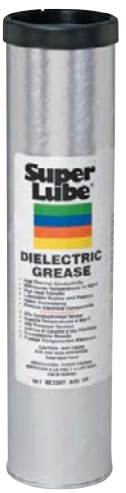
CRC® No. 1HBK3



Jet-Lube® No. 2YKK4



Loctite No. 5E201



Super-Lube® No. 44N728

CRC JET-LUBE LOCTITE Super Lube®

Dielectric Grease

CRC® Dielectric Grease—Food-grade noncuring silicone compound waterproofs electrical connections and components to protect against arcing. No. 2F136 features Perma-Lock® integrated actuator that will not detach.

Jet-Lube® Silicone Compound DM™—Moisture-proofing sealant and lubricant's low volatility, inert properties, and high dielectric strength are good for use on a wide range of elastomers and plastics. It can serve as a lubricant, sealant, or chemical barrier coating for valves, O-rings, stuffing boxes, and vacuum and pressure systems; great to insulate electrical connectors against the elements.

Jet-Lube® MP (Moisture-Proofing) Silicone Grease™—Nonconductive premium moistureproofing lubricant is useful in a wide variety of applications, and a great insulator to protect electrical connectors against the elements. It is excellent on marine, automotive, and aircraft ignition systems, as well as electrical assemblies, cable and spark plug connections, and battery terminals. The formula is designed for compatibility with O-ring materials including Buna-N, Viton® FKM, HSN (hydrogenated nitrile), Teflon® PTFE, and nylon.

Loctite® LB 8801 Silicone Lubricant—Noncuring. Seals, waterproofs, and electrically insulates metal, rubber, and plastic parts. Can also be used as a mold release agent.

Super-Lube® H1 Food Rated Dielectric Grease—Noncuring synthetic compound lubricates, seals, and protects electrical components and connectors including battery cables, spark plugs, distributor caps, terminal strips and disconnects, and cable connections. Compatible with most plastics and rubber, it helps moistureproof and insulate electrical connections, offers corrosion prevention, and helps keep contaminants out.

Super-Lube® H1 Food Grade Multipurpose Grease—PTFE-based formula provides friction, wear, rust, and corrosion protection. This grease will not run, drip, melt or separate.

NLGI Grade	Container Type	Container Size	NSF Rating	Grease Color	Base	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC® Dielectric Grease									
2	Tube	6 oz.	H1	White	Silicone	400°F	-70°F	02085	**1HBK3**
2	Aerosol Can	10 oz.	H1	Clear	Silicone	400°F	-70°F	03082	**2F136**
Jet-Lube® Silicone Compound DM™									
3	—	—	—	—	Silicone	—	—	73560	**2YKJ9**
3	Cartridge	14 oz.	H1	Clear	Silicone	400°F	-70°F	73550	**2YKK4**
Jet-Lube® MP Silicone Grease™									
1.5	Tube	5.3 oz.	H1	Clear	Silicone	400°F	-70°F	32460	**2YKK1**
Loctite® LB 8801 Dielectric Grease									
—	Tube	5.3 oz.	Not Rated	Clear	Silicone	400°F	—	234317	**5E201**
Super-Lube® H1 Food Grade Dielectric Grease									
2	Cartridge	14.1 oz.	H1	White	PAO/Mineral Oil/Silicone	500°F	-40°F	91015	**44N728**
Super-Lube® H1 Food Grade Multipurpose Grease									
2	Cartridge	14.1 oz.	H1	White	PAO/Mineral Oil	450°F	-45°F	41150	**44N721**



CRC®
No. 4ZF09



LPS®
No. 6JHY0



Sprayon®
No. 6KHE9



Tri-Flow®
No. 4TA92



WD-40® Specialist®
No. 31XR57

Aerosol Spray Multipurpose Greases

CRC®

Red Grease—Aluminum complex-based formula prevents rust, corrosion, and oxidation; maintains lubricity at extremely high temperatures. Long-lasting waterproof film resists acids, alkalis, salt, weather, and steam.

Food Grade White Grease—Features Perma-Lock® integrated actuator. Formulated for high-load applications requiring long grease life. Protects against wear, rust, and oxidation.

White Lithium Grease—Formula offers superior lubrication and durability in any weather. An excellent bearing break-in lube and a general purpose lube and corrosion inhibitor for tools, machinery, equipment, guide rails/tracks, hinges, latches, chains, and cables.

Heavy-Duty Clear Penetrating Grease—High-tack gel resists throwoff and water washout. Forms a thick, long-lasting waterproof film that resists acids, alkalis, salt, oxidation, weather, and steam.

LPS®

White Lithium with PTFE—Ultra-white lithium-based aerosol grease has PTFE additives for superior lubricity.

Red and Redi—Bentonite clay-based grease offers high temperature performance and corrosion resistance.

SPRAYON®

LU™100 White Lithium Grease—High-solids, nonmelting formula provides excellent metal-to-metal lubrication and is an excellent corrosion inhibitor for unpainted metal. The spray-on grease features great cling for overhead applications.

TRI-FLOW®

Synthetic Grease with PTFE—Premium formula is nonstaining and helps prevent corrosion on gaskets, O-rings, conveyors, sterilizer chains, slides, pool equipment, electric motors, water filters, and universal joints.

WD-40® SPECIALIST®

Protective White Lithium Grease—Liquid formulation sprays on evenly, then sets dry to form a thick, nonmelting coating that's great for metal-to-metal applications where heavy-duty lubrication and protection against rust and corrosion are required. Long-lasting, freeze-resistant lube won't run off in any weather. Good for outdoor and indoor applications, and on equipment being prepared for storage.

B'LASTER

Food-Grade White Spray Grease—Clean, low-odor grease protects against rust, moisture and oxidation in a range of applications, including food processing and food handling. Formulated for heavy-load applications. NSF H1 registered.

Penetrating Lithium Grease—Time-release formula penetrates existing rust and corrosion and provides long-lasting lubrication and surface protection. Great for restoration projects and various agriculture, construction, and automotive applications.

White Lithium Multipurpose Grease— Low-friction lubrication creates a protective barrier, protecting against moisture and oxidation. Grease helps keep surfaces lubricated in extreme temperatures.

Description	Container Size	NSF Rating	NLGI Grade	Grease Thickener	Grease Color	Lubricant Additives	Max. Operating Temp.	Min. Operating Temp.	Base Oil	Mfr. Model	Item No.
B'laster											
Food Grade White Spray Grease	11 oz.	H1	—	Lithium	White	Lithium	120°F	-12°F	Mineral	16-WG-FG	**402M56**
Penetrating Lithium Grease	8 oz.	Not Rated	—	Lithium	Orange	Lithium	500°F	97°F	Petroleum	GR-8A-PB	**443V04**
Blaster											
High-Performance White Lithium	11 oz.	Not Rated	1	Lithium	White	—	—	—	Mineral	16-LG	**16W545**
CRC®											
Food Grade White Grease	16 oz.	H1	2	Aluminum Complex	White	Aluminum Complex	450°F	0°F	Mineral	03038	**1XFC1**
Heavy-Duty Clear Penetrating Grease	20 oz.	H2 No Food Contact	—	—	Clear	Molybdenum	500°F	-30°F	Petroleum	03056	**12W315**
Red Grease	16 oz.	Not Rated	2	—	Red	—	300°F	-25°F	Aluminum Complex	03079	**1HBK8**
White Lithium Grease	10 oz.	H2 No Food Contact	2	Lithium	White	Zinc	300°F	0°F	Lithium Stearate	03080	**4ZF09**
Crown											
Lithium Grease	11 oz.	Not Rated	2	Lithium	White	—	360°F	-70°F	Mineral	7037	**36XE44**
Du Pont											
White Lithium Grease	10 oz.	Not Rated	2	PTFE	White	PTFE	500°F	97°F	Mineral	MS-TWL	**35RP35**
Liquid Wrench											
White Lithium Grease	10.2 oz.	Not Rated	2	Lithium	White	Petroleum Distillates	115°F	35°F	Petroleum	L616	**54YT56**
Loctite											
White Lithium Grease	10.75 oz.	Not Rated	2	Lithium	White	—	380°F	—	Mineral	1906122	**45MY66**
LPS®											
Red and Redi Multipurpose	16 oz.	Not Rated	2	Clay	Red	—	450°F	-40°F	Mineral	05816	**5YH77**
White Lithium with PTFE	16 oz.	Not Rated	2	Lithium	White	PTFE	120°F	0°F	Mineral	03816	**6JHY0**
LubriMatic											
White Lithium Grease	12 oz.	Not Rated	2	Lithium	White	PTFE	—	-122°F	Mineral	11363	**41AA46**
Sprayon®											
LU™100 White Lithium Grease	16 oz.	H2 No Food Contact	—	Lithium	White	—	275°F	-20°F	—	SC0100000	**6KHE9**
Tri-Flow®											
Synthetic Grease with PTFE	11¼ oz.	H1	2	PTFE	White	—	400°F	-10°F	Synthetic	TF220201	**4TA92**
WD-40® Specialist®											
Protective White Lithium Grease	10 oz.	H2 No Food Contact	—	Lithium	White	—	300°F	0°F	Mineral	300615	**31XR57**
Zep											
Redi-Grease Multi-Purpose Grease	12 oz.	Not Rated	—	Aluminum Complex	Red	Aluminum	400°F	0°F	Petroleum	11521	**456L09**



Mobilgear™ 600 XP
No. 1MUC7



SHC™ 630
No. 20JY58

ExxonMobil

Gear Oils

MINERAL

Mobiltac™ MM

Non-diluent formula features extreme pressure additives, providing protection of gear teeth and metal surfaces subject to extremely heavy loads. Oil forms a cohesive and adhesive lubricating film that resists wear, water wash, and excessive "throw off". For use in applications such as open gears, hoist gears, swing gears, and large press gears.

Mobilgear™ 600 XP

Provide heightened protection against micropitting, debris denting, and bearing wear in enclosed gear drives with circulation or splash lubrication systems.

Mobil™ 600 W Super

High-performance, high-viscosity oil is designed for use in enclosed worm gears operating at moderate to high speeds and temperatures. Provides good sealing film around rods and in glands in steam applications. Resists deposit formation. Excellent antiwear and low friction properties.

SYNTHETIC

Mobil SHC™ 600

Provide equipment protection at high and low temperatures, allowing peak productivity performance. Formulated for oxidation stability, corrosion and rust prevention. High performing oil in water separability, foam control, and air release. Run 20% cooler than conventional oil, limiting power consumption and reducing maintenance cost. For use in enclosed gears, speed and gear reducers, and plain and roller bearings.

Series	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Mfr. Model	Item No.
Mineral						
Mobiltac™ MM	Not Specified	NA	5 gal.	Pail	100684	**4DNJ2**
Mobilgear™ 600 XP 68	68	101	5 gal.	Pail	105882	**4DNJ4**
Mobilgear™ 600 XP 150	150	97	1 gal.	Can	103542	**1MUC7**
	150	97	5 gal.	Pail	105880	**1MUC6**
Mobilgear™ 600 XP 220	220	97	5 gal.	Pail	105879	**4DNH4**
Mobilgear™ 600 XP 460	460	96	1 gal.	Can	103495	**1MUC8**
Mobilgear™ 600 XP 680	680	90	5 gal.	Pail	103499	**4DNH7**
Mobil™ 600 W Super	460	95	5 gal.	Pail	101923	**4DNJ6**
Synthetic						
Mobil SHC™ 600	220	169	1 qt.	Bottle	123000	**6Y778**
	460	174	1 qt.	Bottle	123018	**4ZF30**
	220	169	5 gal.	Pail	110843	**20JY58**



Mobil™ SHC Cibus
No. 6HHA6



Mobil™
SHC Cibus™ 460
No. 6HHC1



Petrochem®
Foodsafe FG
Series
No. 3NLK7



Renewable
Lubricants™ Bio-
Food Grade™
No. 5JGG9

ExxonMobil | Petrochem FOODSAFE | Supplier Diversity | Renewable Lubricants

Food Grade Gear Oils

Note: Food Grade Ratings are determined by the National Sanitation foundation (NSF), these values include H1 (Acceptable for incidental food contact), H2 (not acceptable for any contact with food), and H3 (edible/soluble).

H1 RATED

Mobil SHC Cibus™ Series—Food-grade synthetic oils feature high viscosity and load carrying capability, excellent oxidation stability and water separation, good seal compatibility and corrosion protection, and low traction coefficient.

Petrochem® Foodsafe FG Series—Semisynthetic gear lubricant for gearboxes operating under low and high temperatures.

Petrochem® Foodsafe Gearsyn FGG Series—For gearboxes and enclosed gears under low or high temperatures and humidity. Provides a protective antirust film for gaskets or seals of tank closures.

H2 RATED

Petrochem® Gearsyn EP 220—Ideal for heavily loaded low-speed gears and bearings with boundary or elasto-hydrodynamic lubrication conditions such as in mine hoist gear reducers. Also for gearboxes which operate under excessively high temperatures.

Renewable Lubricants™ Bio-Food Grade™—For gear drives and right-angle gear drives.

Description	Base Oil	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
H1 Food Grade									
Mobil									
SHC Cibus™ 32	Synthetic	32	140	5 gal.	Pail	260°C	12°F	104093	**6HHA8**
SHC Cibus™ 46	Synthetic	46	148	5 gal.	Pail	260°C	—	104094	**6HHC0**
SHC Cibus™ 68	Synthetic	68	151	5 gal.	Pail	260°C	12°F	104095	**6HHC2**
SHC Cibus™ 150	Synthetic	150	150	5 gal.	Pail	260°C	13°F	104098	**6HHA6**
SHC Cibus™ 220	Synthetic	220	139	5 gal.	Pail	260°C	13°F	104080	**6HHA7**
SHC Cibus™ 320	Synthetic	320	147	5 gal.	Pail	260°C	13°F	104096	**6HHA9**
SHC Cibus™ 460	Synthetic	460	148	5 gal.	Pail	260°C	13°F	104097	**6HHC1**
Petrochem®									
Foodsafe FG Series	Semi-Synthetic	220	96	1 gal.	Can	445°F	-6°F	FG-220-001	**3NLK7**
Foodsafe FG Series	Semi-Synthetic	220	96	5 gal.	Pail	445°F	-6°F	FG-220-005	**3NLK6**
Foodsafe FG Series	Semi-Synthetic	460	129	1 gal.	Can	445°F	0°F	FG-460-001	**3NLK9**
Foodsafe FG Series	Semi-Synthetic	460	127	5 gal.	Pail	445°F	0°F	FG-460-005	**3NLK8**
Foodsafe Gearsyn FGG Series	Semi-Synthetic	220	158	1 gal.	Can	585°F	-30°F	FGG-220-001	**6HXL1**
H2 No Food Contact									
Petrochem®									
Gearsyn EP 220	Synthetic	220	134	5 gal.	Pail	500°F	-45°F	EP-220-005	**6HXL7**
Renewable Lubricants™									
Bio-Food Grade™	Semi-Synthetic	220	226	5 gal.	Pail	250°F	10°F	87254	**5JGG9**



CRC®
No. 12G561



Mobil™
DTE 32
No. 4ZF37



Petrochem®
FMO Series
No. 40P269



Petrochem® FG Series
No. 3NLL2

Food Grade Hydraulic Oils

CRC ExxonMobil Petrochem FOODSAFE

- NSF H1 Rated

Note: Food Grade Ratings are determined by the National Sanitation foundation (NSF), these values include H1 (Acceptable for incidental food contact), H2 (not acceptable for any contact with food), and H3 (edible/soluble).

CRC®—Formulated with USP-grade white oils which meet the requirements of demanding hydraulic systems.

Mobil™ DTE FM 32—Highly refined mineral oil is treated to remove color bodies. Will not stain or discolor material it contacts.

Petrochem® Foodsafe FMO Series—White oil base stocks is fortified to provide protection against corrosion, wear, and oxidation. For use with hydraulic systems, pneumatic lubricators, light-duty air compressors, chains, bearings, vacuum pumps, blowers, and slideways.

Petrochem® Foodsafe Hydraulic FG Series—Semisynthetic blend fluids feature EP wear protection and good demulsibility. For high-pressure hydraulic, cooler conveyor, circulating, and air compressor systems in food processing and air line applications.

Base Oil	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC®								
Mineral	68	106	5 gal.	Pail	375°F	0°F	04226	**12G561**
Mobil™ DTE FM 32								
Mineral	32	106	5 gal.	Pail	150°C	—	105764	**4ZF37**
Petrochem® Foodsafe FMO Series								
Mineral	32	115	5 gal.	Pail	410°F	5°F	FMO 32-005	**40P269**
	46	108	5 gal.	Pail	420°F	10°F	FMO 46-005	**40P270**
	100	112	5 gal.	Pail	450°F	15°F	FMO 100-005	**40P272**
Petrochem® Foodsafe Hydraulic FG Series								
Semi-Synthetic	32	101	1 gal.	Can	445°F	5°F	HYD-FG-32-01	**3NLL2**
	32	101	5 gal.	Pail	445°F	5°F	HYD FG-32-05	**3NLL1**
	46	101	1 gal.	Can	445°F	5°F	HYD FG-46-01	**3NLL4**
	46	101	5 gal.	Pail	445°F	5°F	HYD FG-46-05	**3NLL3**
	68	100	1 gal.	Can	445°F	5°F	HYD FG-68-01	**3NLL6**
	68	100	5 gal.	Pail	445°F	5°F	HYD FG-68-05	**3NLL5**

ExxonMobil

Hydraulic and Circulating Oils

HYDRAULIC OILS

DTE™ 24, 25, and 26—Antiwear industrial oils meet the requirements of all conventional and high-output hydraulic systems. Operate in a wide range of temperatures while handling heavy loads. For hand- and power-operated jacks, scissor jacks, and hand pumps.

DTE 10 Excel™—Excellent keep-clean, antiwear performance and deposit control. Nonzinc formula is compatible with zinc-containing hydraulic fluids. Excellent protection against rust. Controlled demulsibility to work with small amounts of water and separate out large quantities. Multimetal compatibility.

EAL 224H—Recommended for most hydraulic systems requiring readily biodegradable, nontoxic fluids.

Aero™ HFA—For aircraft systems that require hydrocarbon-based hydraulic fluids. Features high viscosity index with excellent low-temperature properties and good chemical and oxidation stability.

CIRCULATING OILS

DTE™ Light, Medium, Heavy Medium, and Heavy—Contain oxidation inhibitors to resist thermal degradation and defoamants to ensure entrained air is released. Demulsibility permits water and other contaminants to separate. For bearings, gears, hydraulics, selected vacuum pumps, and air compressors.

DTE™ Extra Heavy—Formulated for extremely high chemical and thermal stability, rapid and complete separation from water, and high resistance to emulsification. For steam and hydro turbines, including geared turbines.



DTE 24
No. 4ZF33



DTE™ 25
No. 4ZF34



DTE Heavy
No. 6Y781

Description	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Mfr. Model	Item No.
Hydraulic Oils						
DTE™ 24	32	98	1 gal.	Can	101014	**4ZF33**
	32	98	5 gal.	Pail	105466	**4F968**
DTE™ 25	46	98	1 gal.	Can	100814	**4F973**
	46	98	5 gal.	Pail	105433	**4ZF34**
DTE™ 26	68	98	1 gal.	Can	100817	**6Y780**
	68	98	5 gal.	Pail	105475	**4ZF35**
DTE 10 Excel™	32	164	5 gal.	Pail	106126	**4DNH3**
	46	164	5 gal.	Pail	106128	**4DNH8**
EAL 224H	32	212	5 gal.	Pail	102570	**4F971**
Aero™ HFA	15	370	5 gal.	Pail	105426	**4DNJ3**
Circulating Oils						
DTE™ Light	32	102	5 gal.	Pail	104743	**4ZF36**
DTE™ Medium	46	98	5 gal.	Pail	101057	**4DNJ1**
DTE™ Heavy Medium	68	95	1 gal.	Can	100959	**4DNJ9**
	68	95	5 gal.	Pail	104816	**4DNJ8**
DTE™ Heavy	100	92	1 gal.	Can	100544	**6Y781**
DTE™ Extra Heavy	150	96	1 gal.	Can	100760	**6Y782**



Way Oil
No. 4ZF13



Spindle Oil
No. 4F974

Machine Maintenance Oils

ExxonMobil

Way Oils—Dual-purpose hydraulic and way oils are recommended when extreme precision or slow speeds make it necessary to eliminate stick-slip or chatter. Approved by major machine tool builders such as Cincinnati Milacron, Okuma, and Bijur. Minimize wear. Good coolant separability extends oil life.

Spindle Oils—Light-bodied, light-colored oils offer long service life and excellent antifoam and rust protection. Resist oxidation and deposit formation. For high-speed spindle, plain, and antifriction bearings in textile machines, precision grinders, and other machine tools. Effective lubrication at high speeds. Approved against Cincinnati Milacron P specifications.

Description	ISO Viscosity Grade	Container Size	Container Type	Mfr. Model	Item No.
Way Oils					
Vactra No. 1	32	5 gal.	Pail	100705	**5ZN07**
Vactra No. 2	68	5 gal.	Pail	105480	**4ZF13**
Vactra No. 3	150	5 gal.	Pail	100885	**45NM36**
Vactra No. 4	220	5 gal.	Pail	103880	**4F969**
Spindle Oils					
Velocite No. 3	2	5 gal.	Pail	103866	**5ZN14**
Velocite No. 6	10	1 gal.	Can	100848	**4F974**
Velocite No. 6	10	5 gal.	Pail	105482	**4ZF38**
Velocite No. 10	10	5 gal.	Pail	105481	**4F970**



Almo 525
No. 4ZF22



Sta-Lube®
No. 13P452



Bio-Air Tool™
No. 2NMW6

ExxonMobil CRC 3-IN-ONE RENEWABLE LUBRICANTS

Air Tool Oils and Lubricants

Almo 525 Air Tool Oil—Pneumatic rock drill and tool lubricant formulated to provide a balance of adhesiveness, yet emulsifiable enough to pick up moisture carried in oil stream.

Sta-Lube® Air Tool Oil—Reduces rust, varnish, sludge and acids. Increases torque on pneumatic equipment.

Pneumatic Tool Oil—Quickly removes gum and sludge. Waterproof formula lubricates, protects, and prevents rust.

Bio-Air Tool™ and Bio-Food Grade™ Air Tool Lubricants—Designed for use with rotary and reciprocating air tools.

Description	Container Size	Container Type	Brand	Mfr. Model	Item No.
Almo 525 Air Tool Oil	1 qt.	Bottle	Mobil	122977	**4ZF22**
Sta-Lube® Air Tool Oil	15 oz.	Bottle	CRC	SL2531	**13P452**
Pneumatic Tool Oil	4 oz.	Bottle	3-In-One	120046	**20LA87**
Bio-Air Tool™ Air Tool Lubricant	32 oz.	Bottle	Renewable Lubricants	83111	**2NMW5**
Bio-Air Tool™ Air Tool Lubricant	1 gal.	Jug	Renewable Lubricants	83113	**2NMW6**
Bio-Food Grade™ Air Tool Lubricant	32 oz.	Bottle	Renewable Lubricants	87461	**5JGG4**
Bio-Food Grade™ Air Tool Lubricant	1 gal.	Jug	Renewable Lubricants	87463	**5JGG5**

ExxonMobil

Vacuum Pump Oil

Nondetergent straight mineral oil with low vapor pressure. Recommended for high-vacuum applications (0.08 Hg max. microns). Suitable for use with Busch, Leybold, Gast, Pneumotive, and Welch pumps.



ISO Viscosity Grade	Container Size	Container Type	Mfr. Model	Item No.
68	1 qt.	Bottle	123027	**4ZF23**



Air Tool Pneumatic Lubricant
No. 44N761

Air Line Lubricant
No. 40P263



Super Lube® Petrochem FOODSAFE® SUPPLIER DIVERSITY

Food Grade Air Tool/Air Line Oil and Lubricants

- NSF 1 Rated

Air Tool Pneumatic Lubricant—Oil's blended rust and corrosion inhibitors and a synthetic base fluid absorb water and minimize ice buildup and frost in air tools; reduce wear and allow operation in temperatures as low as -40°F.

Air Line Lubricants—For pneumatic equipment and air-operated tools in food, beverage, and packing operations. No. 40P261 is for medium equipment and handheld tools. No. 40P263 is for large equipment and jackhammers.

Description	Container Size	Container Type	Brand	Mfr. Model	Item No.
Air Tool Pneumatic Lubricant	4 oz.	Bottle	Super Lube	12004	**44N761**
Air Line Lubricant, ISO 46	1 gal.	Jug	Petrochem	FG-46-001	**40P261**
Air Line Lubricant, ISO 68	1 gal.	Jug	Petrochem	FG-68-001	**40P263**



Petrochem FOODSAFE® SUPPLIER DIVERSITY

Food-Grade Ammonia Refrigeration Compressor Oil

Clear semi-synthetic oil. Used with ammonia refrigeration systems in food service, beverage, and packaging applications to prevent rust and corrosion.

SAE Grade	ISO Viscosity Grade	Specific Gravity	NSF Rating	Max. Operating Temp.	Container Size	Item No.
20W	68	0.870	H1 Food Grade	445°F	5 gal.	**3NLL5**

LPS®

DETEX® Spray Bottle

Empty trigger spray bottle with DETEX® metal and x-ray detectable plastic components provides convenient delivery of bulk-packaged cleaners, degreasers, and lubricants. Adjustable spray stream ensures proper application.



Container Size	Mfr. Model	Item No.
28 oz.	57928	**29FX95**

LA-CO®

Precision Spout Oiler

Flexible telescoping spout can reach up to 13" to lubricate hard-to-reach areas. Nondetergent SAE 10 turbine-grade oil for use on rotating and reciprocating motors, bearings, slides, and other equipment.



Container Size	Container Type	Mfr. Model	Item No.
4 oz.	Bottle	79704	**4NA76**

CRC® LPS® Sprayon® TRI-FLOW™

Food Grade Machinery Oils

- NSF H1 Rated

CRC®—General-purpose lubricant is silicone-free, virtually odorless, and colorless. Will not harm metal, wood, plastic, or painted surfaces. Zero VOC. The Perma-Lock® integrated actuator will not detach.

LPS® with DETEX®—Features metal-detectable plastic components with DETEX®. Colorless, odorless, nonstaining oil loosens nuts and bolts and lubricates to reduce sticking, binding, and squeaking on bottling equipment, conveyors, food service racks, slicers, and other equipment. Safe on most surfaces. Silicone- free and VOC-free. No chlorinated solvents.

Sprayon® LU™7000il—Silicone-free lubricant loosens corrosion.

Tri-Flow™ Synthetic Oil with PTFE—Nonstaining oil does not emulsify in water.



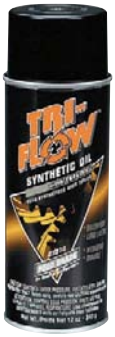
No. 2F132



No. 19C659



No. 6KHE5



No. 4TA90

Description	Container Size	Temp. Range	Mfr. Model	Item No.
CRC®	16 oz.	32° to 300°F	03081	**2F132**
LPS® with DETEX®	11 oz.	0° to 385°F	01316	**19C659**
Sprayon® LU™700 Food Grade Machinery Oil	10 oz.	-20° to 450°F	SC0700000	**6KHE5**
Tri-Flow™ Synthetic Oil with PTFE	12 oz.	-10° to 400°F	TF230101	**4TA90**



WESTWARD®

Reusable Sprayer

Refillable sprayer uses compressed air to deliver a uniform, controlled mist spray of bulk lubricants, penetrants, degreasers, solvents, and cleaners. 80 to 150 psi operating pressure. Top-fill carbon steel canister with blue enamel coating. Not for use with paint.

Cap. (oz.)	Dia. (in.)	H (in.)	Item No.
32	4	7⅞	**31ER19**

LPS® Accu-Lube®

Hand-Applied Metalworking Lubricants

Tapmatic® Edge Lube—Biodegradable bar is packaged in a cylinder for rotating or stationary cutting tools. Excellent for sawing applications, eliminating heat buildup and belt loading. Low toxicity. Compatible with oil and water systems. Safe on all metals.

Tapmatic® Edge Creme—Biodegradable paste cutting fluid can be applied to tools before tapping or reaming. Use when drilling, tapping blind holes, forming, bending, precoating fasteners, and lubricating rubber seals.

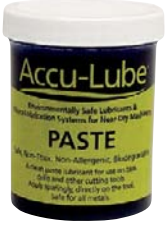
Stick Lubricants—Designed to reduce heat buildup in belt, disc, or wheel grinding operations.



No. 4KK73



No. 4KK72



No. 1MKN8



No. 1MKN7

Container Size	Container Style	Physical Form	Color	Brand	Mfr. Model	Item No.
Tapmatic® Edge Lube						
13 oz.	Tube	Solid	White	LPS	43200	**4KK73**
Tapmatic® Edge Cream						
10 oz.	Tube	Paste	White	LPS	43100	**4KK72**
Gel Paste						
8 oz.	Jar	Paste	Dark Blue	Accu-Lube	79030	**1MKN8**
Stick Lubricants						
2.2 oz.	Jar	Solid	Light Blue	Accu-Lube	79042	**1MKN6**
13 oz.	Tube	Solid	Light Blue	Accu-Lube	79045	**1MKN7**



Oil-Based
MQL™1000
No. 3EAX8



Biodegradable
LB-2000
No. 1MKL9



Synthetic
Multipurpose
No. 4YPL5

Metalworking MQL Lubricants

Formulated to apply in very small quantities for near-dry machining, avoiding heat buildup, and reducing tool wear. Minimum Quantity Lubrication (MQL) technology is designed as a cleaner, less costly alternative to flood and mist coolant practices. MQL dispensing applicator systems are sold separately; see page 2461.

OIL-BASED

MQL™1000—Vegetable-based ester fluid is compatible with all microlube and micromist systems. Helps control buildup edge and sliding friction.

BIODEGRADABLE

FG-2000—Superior food-grade formula with nonchlorinated EP additives for moderate to heavy near-dry machining.

LB-2000—Great for sawing solids up to 6" dia. Fluid will not discolor parts.

LB-3000—Designed for medium-duty machining.

LB-5000—Light-viscosity lubricant will not stain during post-heat treating. Designed for medium machining on aluminum that requires post-heat treating.

SYNTHETIC

Multipurpose—Water-based formula with nonchlorinated extreme-pressure (EP) additives for moderate-duty machining, sawing, and cutting. It provides rapid heat dissipation.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Oil-Based					
MQL™1000					
1 gal.	Jug	Yellow	Trim	MQL1000/1	**3EAX8**
5 gal.	Pail	Yellow	Trim	MQL1000/5	**3EAX9**
54 gal.	Drum	Yellow	Trim	MQL1000/54	**3EAY1**
Biodegradable, Food Grade					
FG-2000					
1 gal.	Jug	Gold	Accu-Lube	FG2001	**6VDT1**
55 gal.	Drum	Gold	Accu-Lube	FG2055	**6VDT2**
Biodegradable					
LB-2000					
1 gal.	Jug	Blue	Accu-Lube	LB2000	**1MKL9**
55 gal.	Drum	Blue	Accu-Lube	LB2055	**3ELP2**
LB-3000					
1 gal.	Jug	Blue	Accu-Lube	LB3000	**1MKN1**
55 gal.	Drum	Blue	Accu-Lube	LB3055	**3ELP3**
LB-5000					
1 gal.	Jug	Blue	Accu-Lube	LB5000	**1MKN2**
55 gal.	Drum	Blue	Accu-Lube	LB5055	**3ELP4**
Synthetic					
Multipurpose					
1 gal.	Jug	Blue	Accu-Lube	LBSYNT01	**4YPL5**



No. 3EAY2

Antifoam Additives

Nonsilicone defoamer is added tankside to control foam in water-miscible coolants, washing compounds, floor soaps, and more.

Container Size	Container Style	Mfr. Model	Item No.
2 qt.	Bottle	TC184B/AD	**3EAY2**
5 gal.	Pail	TC184B/5	**3EAY3**



Water-Soluble
TrueTap® Aqua
No. 13P446



Water-Soluble
Tapmatic® AquaCut
No. 2C649



Biodegradable
LB-2000
No. 1MKN9



Biodegradable
Bio-General
Purpose™ Cut 40
No. 2VXK6



Biodegradable
Eco-Oil
No. 406F88

Water-Soluble and Biodegradable Cutting Fluids

TrueTap® Aqua—Nonaerosol fluid offers excellent cooling and lubrication for tap and drill applications. It is formulated as a replacement for solvent- or oil-based fluids.

Tapmatic® AquaCut—Water-based fluid is compatible with steel, aluminum, and most other metals, except magnesium. Corrosion inhibitors prevent flash rusting. Nonflammable.

Formula 1 Aqueous—EP-X3® additive gives performance boost. Proprietary water base in Aqueous is noncorrosive.

LB-2000—Environmentally safe oil is hand-applied for drilling, tapping, and reaming. Safe for all metals.

Tapmatic® Natural—Nontoxic, nonhazardous formula eliminates galling and seizing. Fluid does not contain sulfur, chlorine, chlorinated solvents, water, mineral oil, or inactive fillers.

Bio-General Purpose™ Cut 40—Light- to medium-duty oil is formulated to reduce smoke and mist.

Bio-SynXtra™—Heavy-duty oil reduces smoke and mist.

Bio-Mist™ EP—Extreme-pressure lube for misting cutting tools working nonferrous metals, ferrous alloys, mild steel, and cast iron.

Eco-Oil—Natural oil base resists smoking and fuming.

ProTap—Formula is free of all regulated chemicals. Highly effective on all metals.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Water-Soluble					
TrueTap® Aqua					
16 oz.	Bottle	Clear Blue	CRC	03440	**13P446**
Tapmatic® Aquacut					
16 oz.	Bottle	Turquoise	LPS	01216	**2C649**
Formula 1 Aqueous					
12 oz.	Aerosol	Amber	Tap Magic	50012QL	**12N691**
16 oz.	Bottle	Amber	Tap Magic	50016Q	**1MCU6**
Biodegradable					
LB-2000					
8 oz.	Spray Bottle	Dark Blue	Accu-Lube	79026	**1MKN9**
Tapmatic® Natural					
16 oz.	Bottle	Green	LPS	44220	**4KK74**
Bio-General Purpose™ Cut 40					
1 gal.	Jug	Yellow	Renewable Lubricants	86833	**2VXK6**
5 gal.	Pail	Yellow	Renewable Lubricants	86834	**2VXK7**
Bio-SynXtra™					
1 gal.	Jug	Yellow	Renewable Lubricants	86873	**2VXK8**
Bio-Mist™ EP					
1 gal.	Jug	Yellow	Renewable Lubricants	86733	**2NMW9**
	—	Blue	Tap Magic	60016C	**406F88**
ProTap					
12 oz.	Aerosol	Yellow	Tap Magic	30012PL	**1MCU9**
16 oz.	Bottle	Yellow	Tap Magic	30016P	**4ZF07**
1 gal.	Jug	Yellow	Tap Magic	30128P	**1MCU8**
5 gal.	Pail	Yellow	Tap Magic	30640P	**1MCV1**



Oil-Based Cutting Oil No. 2F146



Oil-Based Tapmatic® #1 Gold No. 2F021



Oil-Based MobilMet® 766 No. 1MUC3



Oil-Based LU™ 208 No. 2W755



Oil-Based EP-Xtra® No. 4F963



Semisynthetic MicroSol® 585XT No. 5CEX6



Synthetic MIST No. 3EAX5

Oil-Based and Synthetic Cutting Fluids

OIL-BASED

Cutting Oil—Thread-cutting lubricant for use on all types of ferrous and nonferrous metals. Sulfur-free, low-odor formula.

TrueTap® HD—For heavy-duty use in severe applications. Use to tap, thread, drill, saw, shear, turn, and ream metal parts, pipes, conduit, screws, housings, aluminum sheets, stainless steel and exotic metals.

Tapmatic® #1 Gold—Protects and lubricates, reducing friction and eliminating chip welding. Safe to use on all metals.

Tapmatic® TriCut®—For hard-to-machine metals.

Mobilcut™ 100—Mixes with different waters to form stable emulsions for cutting and grinding operations.

MobilMet® 426—Automatic operation on materials with a Brinell hardness up to 300.

MobilMet® 766—For tapping, threading, milling, gear shaving and shaping, broaching, planing, parting-off, and automatic lathe.

LU™ 208—Friction-reducing triglycerides offers fluid film protection in all ferrous/nonferrous machining applications.

Aluminum—For use on aluminum.

EP-Xtra®—Yields microfine finish while preventing rust and corrosion.

Xtra-Thick®—Fluid clings to the workpiece to stay in place during high-speed rotation.

Xtra-Foamy®—Allows gauging of application rate and fluid presence.

Trim® Tap Heavy—For taps ½" dia. and smaller and helps reduce rubbing of tool flank.

Trim® ON 287—Low odor oil for removing metal. Will not stain and has a lower viscosity, allowing for better cooling.

Trim® Tap Light—For taps ¼" dia. and smaller and helps reduce rubbing of tool flank.

SEMISYNTHETIC

Trim® MicroSol® 585XT—Nonchlorinated formula helps extend sump life. For machining, grinding gray iron, and titanium alloys.

Trim® MicroSol® 685—Microemulsion is compatible with aluminum, magnesium and copper alloys, cast iron, steels, stainless steels, plastics, and composites.

Trim® SC230—Combines synthetic coolant and synthesized oil that helps reject tramp oil and improves sump life. Deliver good flushing action into machine's chip removal system.

Trim® SC620—Low foam and low odor fluid is for machining and grinding.

SYNTHETIC

Trim® MIST—Low-odor fluid works well in cutter/grinder operations.

WATER BASED

Trim® Sol SF—Siloxane free formula helps control edge build-up. Nongumming film protection. Residue is easily removed with water.

Trim® C270CG—Provide corrosion inhibition for tapping and reaming operations without chlorine or sulfur based additives.

Trim® C276—Low foam and mist fluid leaves a soft film protection on bare metal parts of machine tools. Easily washes off with coolant solution.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Oil-Based					
Cutting Oil					
12 oz.	Bottle	Brown	CRC	14050	**2F146**
1 gal.	Bottle	Brown	CRC	14051	**4JB48**
TrueTap® HD					
16 oz.	Bottle	Amber	CRC	03400	**36F363**
Tapmatic® #1 Gold					
11 oz.	Aerosol	Gold	Tapmatic	40312	**33MJ78**
16 oz.	Bottle	Gold	LPS	40320	**2F021**
1 gal.	Jug	Gold	LPS	40330	**2F023**
Tapmatic® Tricut					
16 oz.	Bottle	Dark Brown	LPS	05316	**5JG96**
Mobilcut™ 100					
1 gal.	Jug	Yellow	Mobil	121095	**4FVD9**
MobilMet® 426					
1 gal.	Jug	Brown	Mobil	103799	**6HHD0**
5 gal.	Pail	Brown	Mobil	103801	**6HHD1**
MobilMet® 766					
1 gal.	Jug	Clear	Mobil	103479	**1MUC4**
5 gal.	Pail	Clear	Mobil	103323	**1MUC3**
LU™ 208					
12 oz.	Aerosol	Light Amber	Sprayon	SC0208000	**2W755**
14 oz.	Spray Bottle	Light Amber	Sprayon	SC0208LQ0	**4GUP3**
Aluminum					
12 oz.	Aerosol	Light Yellow	Tap Magic	20012AL	**5HH10**
16 oz.	Bottle	Light Yellow	Tap Magic	20016A	**4R818**
1 gal.	Jug	Light Yellow	Tap Magic	20128A	**4R820**
5 gal.	Pail	Light Yellow	Tap Magic	20640A	**1MCV2**
EP-XTRA®					
4 oz.	Bottle	Yellow	Tap Magic	10004E	**6Y645**
12 oz.	Aerosol	Yellow	Tap Magic	10012EL	**5HD99**
16 oz.	Bottle	Yellow	Tap Magic	10016E	**4F963**
1 gal.	Jug	Yellow	Tap Magic	10128E	**6Y646**
5 gal.	Pail	Yellow	Tap Magic	10640E	**6Y647**
Xtra-Thick®					
16 oz.	Bottle	Dark Liquid	Tap Magic	70016T	**1MCU3**
1 gal.	Jug	Dark Liquid	Tap Magic	70128T	**1MCU4**
Xtra-Foamy®					
17 oz.	Aerosol	Dark Liquid	Tap Magic	80017FL	**1MCU5**

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
16 oz.	Bottle	Amber	Trim	TAPHVY/PT	**425L09**
OM 287					
1 gal.	Jug	Brown	Trim	OM287/1	**425K94**
Tap Light					
1 gal.	Jug	Amber	Trim	TAPLT/1	**425L10**
Semisynthetic					
MicroSol® 585XT					
1 gal.	Jug	Amber	Trim	MS585XT/1	**5CEX5**
5 gal.	Pail	Amber	Trim	MS585XT/5	**5CEX6**
54 gal.	Drum	Amber	Trim	MS585XT/54	**5CEX7**
MicroSol® 685					
1 gal.	Jug	Amber	Trim	MS685/1	**3EAZ1**
5 gal.	Pail	Amber	Trim	MS685/5	**3EAZ2**
54 gal.	Drum	Amber	Trim	MS685/54	**3EAZ3**
SC230					
5 gal.	Pail	Blue	Trim	SC230/5	**425K99**
1 gal.	Jug	Blue	Trim	SC230/1	**425K98**
SC620					
1 gal.	Jug	Yellow	Trim	TRIM SC620	**36CF83**
5 gal.	Pail	Yellow	Trim	TRIM SC620	**36CF84**
54 gal.	Drum	Yellow	Trim	TRIM SC620	**36CF85**
Synthetic					
MIST					
1 gal.	Jug	Light Yellow	Trim	MIST/1G	**3EAX5**
5 gal.	Pail	Light Yellow	Trim	MIST/5	**3EAX6**
54 gal.	Drum	Light Yellow	Trim	MIST/54	**3EAX7**
Water Based					
SOL® sF					
5 gal.	Pail	Milky White	Trim	SOLSF/5	**425L03**
1 gal.	Jug	Milky White	Trim	SOLSF/1	**425L02**
C270CG					
5 gal.	Pail	Water White	Trim	C270CG/5	**425K87**
1 gal.	Jug	Water White	Trim	C270CG/1	**425K86**
C276					
1 gal.	Jug	Colorless to Pale Yellow	Trim	C276/1	**425K90**
5 gal.	Pail	Colorless to Pale Yellow	Trim	C276/5	**425K91**

Scan. Order. Done.
Details on page A1.



Semisynthetic
E206
No. 3EAU9



Synthetic
PowerSaw
No. 5YP62



Water-Soluble
WS-5050
No. 1MKL1



Water-Soluble, Biodegradable
Bio-Metal Cool™ GP
No. 2VXN6

Machining Coolants

SEMISYNTHETIC

SS-405L—For machining or grinding.

ULTRACUT® 375R—Compatible with CNC machining.

MicroSol® 690XT—Perform in high-pressure applications, offering cooling and mechanical lubricity.

E206—Effective on ferrous and nonferrous metals.

E850—Provide corrosion protection for ferrous and nonferrous metals.

E925—Deliver exceptional surface finish.

SC520—For high-speed milling and turning operations.

VP Series—Resistant to ionic shock and hard water. For high pressure coolant applications.

VP Tech P—High content mineral oil with excellent bio-resistance.

Aerotech B—For use in aluminum machining and steel applications. Resistant to ionic shock and hard water.

VP Tap—For easy cleaning of parts and tools.

SILICONE

Remove oily residue, soap deposits, and scum that reduce coolant life span.

SYNTHETIC

Carbide PowerGrind—Prevent chemical damage to carbide in grinding applications.

G-25J—For Blanchard grinding of cast iron and other ferrous metals.

G-1066D—For diamond wheel grinding and slicing.

PowerSaw—For sawing operations in moderate to heavy-duty application.

PowerChip 2000—Works well in hard-water areas.

SN-100A—Resist bacterial growth, fungal growth, and rancidity.

Vytron N—General-purpose formula prevents rancidity.

C115—For cast iron and mild steels.

C270—Use in form grinding, drilling, tapping, and reaming operations.

C350—Provide corrosion resistance on aerospace aluminum alloys, titanium, Inconel®, brass, and high-strength alloy steels.

VP Series—For moderate and heavy machining.

WATER-SOLUBLE

WS-11 Nonchlorinated—For use on all metals.

WS-5050—Compatible with CNC machining.

ULTRACUT® Aero—For use with aluminum, titanium, stainless steel, Inconel®, and other metals.

ULTRACUT® Pro and Pro CF—ULTRACUT Pro— Offers resistance to fungus and bacteria.

ULTRACUT Pro CF—Provide maximum bio-resistance.

VP 650P

- For use in manual operations where lubrication is required.

K-5-P—Dislodge difficult to reach sludge and containments.

Val-U-Clean—Clean the sump.

WATER-SOLUBLE, BIODEGRADABLE

Bio-Metal Cool™ GP—For use with ferrous and nonferrous metals.

Container Size	Container Style	Color	Brand	Item No.
Semisynthetic				
AEROTECHB				
5 gal.	Pail	Amber	Valcool	**444C88**
55 gal.	Drum	Amber	Valcool	**444C89**
220 gal.	IBC Tote	Amber	Valcool	**444C90**
275 gal.	IBC Tote	Amber	Valcool	**444C91**
E206				
1 gal.	Jug	Dark Blue	Trim	**3EAU8**
5 gal.	Pail	Dark Blue	Trim	**3EAU9**
54 gal.	Drum	Dark Blue	Trim	**3EAV1**
E850				
1 gal.	Jug	Amber	Trim	**5CEY1**
5 gal.	Pail	Amber	Trim	**5CEY2**
54 gal.	Drum	Amber	Trim	**5CEY3**
E925				
1 gal.	Jug	White	Trim	**48UE72**
5 gal.	Pail	White	Trim	**48UE73**
54 gal.	Drum	White	Trim	**48UE74**
MicroSol® 690XT				
1 gal.	Jug	Amber	Trim	**45JY86**
5 gal.	Pail	Amber	Trim	**45JY85**
54 gal.	Drum	Amber	Trim	**45JY84**
SC520				
54 gal.	Drum	Light Blue	Trim	**5CEY0**
SS-405L				
5 gal.	Pail	Amber	Rustlick	**1E168**
55 gal.	Drum	Amber	Rustlick	**3ELL8**
Ultracut 375R				
5 gal.	Pail	Amber	Rustlick	**1MKL4**
55 gal.	Drum	Amber	Rustlick	**3ELL6**
VP690				
5 gal.	Pail	Amber	Valcool	**444C76**
55 gal.	Drum	Amber	Valcool	**444C77**
220 gal.	IBC Tote	Amber	Valcool	**444C78**
275 gal.	IBC Tote	Amber	Valcool	**444C79**
VP700P				
5 gal.	Pail	Blue	Valcool	**444D16**
55 gal.	Drum	Blue	Valcool	**444D17**
55 gal.	Drum	Amber	Valcool	**444D18**
220 gal.	IBC Tote	Blue	Valcool	**444D19**
220 gal.	IBC Tote	Amber	Valcool	**444D20**
275 gal.	IBC Tote	Blue	Valcool	**444D21**
275 gal.	IBC Tote	Amber	Valcool	**444D22**
VP800P				
5 gal.	Pail	Blue	Valcool	**444D23**
55 gal.	Drum	Blue	Valcool	**444D24**
220 gal.	IBC Tote	Blue	Valcool	**444D25**
220 gal.	IBC Tote	Amber	Valcool	**444D26**
275 gal.	IBC Tote	Blue	Valcool	**444D27**
275 gal.	IBC Tote	Amber	Valcool	**444D28**
VP850				
220 gal.	IBC Tote	Amber	Valcool	**444C80**
275 gal.	IBC Tote	Amber	Valcool	**444C81**
VP855P				
5 gal.	Pail	Blue	Valcool	**444D29**
55 gal.	Drum	Blue	Valcool	**444D30**
220 gal.	IBC Tote	Blue	Valcool	**444D31**
275 gal.	IBC Tote	Blue	Valcool	**444D32**
VP860P				
5 gal.	Pail	Blue	Valcool	**444D33**
5 gal.	Pail	Amber	Valcool	**444D34**
55 gal.	Drum	Blue	Valcool	**444D35**
55 gal.	Drum	Amber	Valcool	**444D36**
VPTap				
5 gal.	Pail	Blue	Valcool	**444D60**
16 oz.	Bottle	Blue	Valcool	**444D59**
55 gal.	Drum	Blue	Valcool	**444D61**
VPTECHP				
5 gal.	Pail	Blue	Valcool	**444C82**
55 gal.	Drum	Blue	Valcool	**444C83**
220 gal.	IBC Tote	Blue	Valcool	**444C84**
220 gal.	IBC Tote	Amber	Valcool	**444C85**
275 gal.	IBC Tote	Blue	Valcool	**444C86**
275 gal.	IBC Tote	Amber	Valcool	**444C87**
Silicone				
DEFOAMERP				
5 gal.	Pail	White	Valcool	**444C92**
Synthetic				
C115				
1 gal.	Jug	Pale Yellow	Trim	**3EAW5**
5 gal.	Pail	Pale Yellow	Trim	**3EAW6**
54 gal.	Drum	Pale Yellow	Trim	**3EAW7**
C270				
1 gal.	Jug	Colorless to Pale Yellow	Trim	**3EAW8**
5 gal.	Pail	Colorless to Pale Yellow	Trim	**3EAW9**
54 gal.	Drum	Colorless to Pale Yellow	Trim	**3EAX1**
C350				
1 gal.	Jug	Colorless to Pale Yellow	Trim	**3EAX2**
5 gal.	Pail	Colorless to Pale Yellow	Trim	**3EAX3**
54 gal.	Drum	Colorless to Pale Yellow	Trim	**3EAX4**
Carbide PowerGrind				
55 gal.	Drum	Opaque Green	Rustlick	**3ELN6**
Carbide PowerGrind				
5 gal.	Pail	Opaque Green	Rustlick	**5YP55**
G-1066D				
5 gal.	Pail	Yellow, Orange	Rustlick	**1C875**
55 gal.	Drum	Yellow, Orange	Rustlick	**3ELN4**
G-25J				
5 gal.	Pail	Dark Green	Rustlick	**1C877**
55 gal.	Drum	Dark Green	Rustlick	**3ELN5**
PowerChip 2000				
5 gal.	Pail	Dark Blue	Rustlick	**5YP64**
55 gal.	Drum	Dark Blue	Rustlick	**3ELL9**
PowerSaw				
5 gal.	Pail	Dark Blue	Rustlick	**5YP62**
55 gal.	Drum	Dark Blue	Rustlick	**3ELN1**
SN-100A				
5 gal.	Pail	Blue	Rustlick	**1C199**
55 gal.	Drum	Blue	Rustlick	**3ELN2**
VP910P				
5 gal.	Pail	Blue	Valcool	**444D37**
55 gal.	Drum	Blue	Valcool	**444D38**
220 gal.	IBC Tote	Blue	Valcool	**444D39**
220 gal.	IBC Tote	Amber	Valcool	**444D40**
275 gal.	IBC Tote	Blue	Valcool	**444D41**
275 gal.	IBC Tote	Amber	Valcool	**444D42**
VP920P				
5 gal.	Pail	Blue	Valcool	**444D43**
55 gal.	Drum	Blue	Valcool	**444D44**
220 gal.	IBC Tote	Blue	Valcool	**444D45**
220 gal.	IBC Tote	Amber	Valcool	**444D46**
275 gal.	IBC Tote	Blue	Valcool	**444D47**
275 gal.	IBC Tote	Amber	Valcool	**444D48**
VP930P				
5 gal.	Pail	Amber	Valcool	**444D49**
55 gal.	Drum	Amber	Valcool	**444D50**
220 gal.	IBC Tote	Amber	Valcool	**444D51**
275 gal.	IBC Tote	Amber	Valcool	**444D52**
VP940P				
5 gal.	Pail	Blue	Valcool	**444D53**
55 gal.	Drum	Blue	Valcool	**444D54**
220 gal.	IBC Tote	Blue	Valcool	**444D55**
220 gal.	IBC Tote	Amber	Valcool	**444D56**
275 gal.	IBC Tote	Blue	Valcool	**444D57**
275 gal.	IBC Tote	Amber	Valcool	**444D58**
Vytron-N				
1 gal.	Jug	Turquoise	Rustlick	**1MKN4**
5 gal.	Pail	Turquoise	Rustlick	**1MKN3**
55 gal.	Drum	Turquoise	Rustlick	**3ELN3**
Water-Soluble				
K-5-P				
1 gal.	Bottle	Purple	Valcool	**444C95**
55 gal.	Drum	Purple	Valcool	**444C94**
Ultracut Aero				
5 gal.	Pail	Light Brown	Rustlick	**6VDP4**
Ultracut Pro				
5 gal.	Pail	Golden Yellow, Light Brown	Rustlick	**6VDP6**
Ultracut Pro CF				
5 gal.	Pail	Golden Yellow, Light Brown	Rustlick	**6VDP8**
Val-U-Clean				
1 gal.	Bottle	Light Green	Valcool	**444C98**
55 gal.	Drum	Light Green	Valcool	**444C97**
VP650P				
5 gal.	Pail	Blue	Valcool	**444C70**
55 gal.	Drum	Blue	Valcool	**444C71**
220 gal.	IBC Tote	Blue	Valcool	**444C72**
220 gal.	Drum	Amber	Valcool	**444C73**
275 gal.	IBC Tote	Blue	Valcool	**444C74**
275 gal.	IBC Tote	Amber	Valcool	**444C75**
WS-11				
5 gal.	Pail	Dark Brown	Rustlick	**1C847**
55 gal.	Drum	Dark Brown	Rustlick	**3ELL5**
WS-5050				
1 gal.	Jug	Blue	Rustlick	**1MKL1**
5 gal.	Pail	Blue	Rustlick	**1C853**
Water-Soluble, Biodegradable				
Bio-Metal Cool™ GP				
1 gal.	Jug	Yellow	Renewable Lubricants	**2VXN6**
5 gal.	Pail	Yellow	Renewable Lubricants	**2VXN7**

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

LOC-LINE®

Acetal Copolymer Flexible Hose System Components


No. 6Y669


No. 6Y664


No. 6Y689


No. 6Y710

Description	Mfr. Model	Item No.	Pkg. Qty.
¼ Hose Inside Dia. (In.)			
Assembly Pliers	78001	**3P832**	1
Assembly Pliers Set	78003	**1DYB1**	1
Hose Segments 5 ¾" Long	41401	**3P817**	2
Hose Segment 25 ft.	49420	**6Y679**	1
Hose Sample Kit	40413	**3P816**	1
Extended Element 3.69" Long	41476	**6Y673**	4
Element Clamp w/Screws	49446	**6Y684**	20
Nozzle Rama Pack	41490	**1DXT3**	1
Flat Nozzle Assortment Pack	41487	**1DXR9**	1
Circle Flow Assembly	41479	**3P834**	1
1/16" Round Nozzle	41402	**6Y657**	4
⅛" Round Nozzle	41403	**3P821**	4
¼" Round Nozzle	41404	**3P820**	4
Flat Slot Nozzle 0.060" Slot Height	41484	**1DXR6**	4
Flat 5 Hole Nozzle 0.060" Hole Diameter	41485	**1DXR7**	4
Flat 7 Hole Nozzle 0.040" Hole Diameter	41486	**1DXR8**	4
90° Nozzle Assortment Kit	41474	**6Y671**	1
90° Nozzle 1/16" Opening	41470	**6Y667**	4
90° Nozzle 1/8" Opening	41471	**1DXR3**	4
¼", 90 Degree Nozzle	41472	**6Y669**	4
Spray Bar Nozzle 1/4"	41473	**6Y670**	2
Straight Flow Nozzle	41489	**1DXT2**	2
Swivel Nozzle 75 0.075" Hole Diameter	41488	**1DXT1**	2
Swivel Nozzle, 0.040 Diameter Holes	41481	**6Y677**	2
Swivel Nozzle, 0.060 Diameter Holes	41482	**6Y678**	2
Flare Nozzle	41407	**3P818**	2
	49427	**6Y680**	20
⅛" NPT Connector	41405	**6Y658**	4
¼" NPT Connector	41406	**3P819**	4
BSPT Connector 1/4"	41418	**6Y666**	4
90 Degrees Elbow	41415	**6Y663**	2
Elbow Fitting	49435	**6Y682**	20
T Fitting	41416	**6Y664**	2
Y Fitting	41408	**3P822**	2
Double Socket	41409	**6Y659**	4
¼" Socket x ⅛" FNPT 1/4" Socket to 1/8" FNPT	41411	**6Y660**	4
Flare Nut Adapter	41414	**6Y662**	4
Male NPT Valve	21192	**3P830**	2
Female NPT Valve	21193	**6Y686**	2
In-line Valve	21194	**3P831**	2
In-Line Valve	29454	**5HK06**	10
In-Line Check Valve	21191	**6Y685**	2
Magnetic Base Manifold	40400	**5HK11**	1
Magnetic Base Manifold with Hose	40463	**5HK12**	1
Modular Manifold	21199	**1DXZ8**	1
Total Flow Control Manifold	21198	**5HK03**	1
Double Socket	49429	**20Y170**	20
Side Flow Nozzle 6 Holes 0.10 Dia.	49443	**20Y179**	20
End Cap	49447	**20Y180**	20

Description	Mfr. Model	Item No.	Pkg. Qty.
Flat Slot 60 Nozzle .060" x .44 Wide	49452	**20Y184**	20
50 Ft. Coil Hose	49421	**20Y167**	1
90° Nozzle ¼" Round Opening	49441	**20Y178**	20
Element Clamp w/Screws	41477	**6Y674**	4
Male NPT Valve	29452	**5HK05**	10
½ Hose Inside Dia. (In.)			
Double Socket	51811	**1DXU1**	4
Element Clamp w/Screws	51834	**6Y704**	4
Male NPT Valve ½" NPT	32092	**6Y708**	2
50 Ft. Coil Hose 50 Feet	59861	**1DYA9**	1
⅜" Round Nozzle	51802	**3P827**	4
½" Round Nozzle	51803	**6Y687**	4
Flat Slot Nozzle 0.080" Slot Height	51840	**1DXU5**	4
90° Nozzle 3/8" Opening	51829	**1DXU3**	4
90° Nozzle 1/2" Opening	51830	**1DXU4**	4
Straight Flow Nozzle	51847	**1DXW3**	2
	51848	**1DXW4**	2
2 ½" Flare Nozzle	51809	**3P829**	2
⅜" NPT Connector	51804	**3P828**	4
½" NPT Connector	51805	**3P826**	4
BSPT Connector 1/2"	51827	**6Y697**	4
Magnetic Base	51846	**1DXW2**	1
Y Reducer	51822	**6Y692**	2
½" to ¼" Adapter	51821	**6Y691**	2
Assembly Pliers	78002	**3P833**	1
Hose Assembly, 13" with Fittings	50813	**3P823**	1
Hose Segments 5 ¾" Long	51801	**3P824**	2
Flare Nozzle	51807	**3P825**	2
Circle Flow Assembly	51837	**3P835**	1
¼" Round Nozzle	51806	**6Y688**	4
Y Fitting	51808	**6Y689**	2
90 Degrees Elbow	51824	**6Y694**	2
T Fitting	51825	**6Y695**	2
Spray Bar Nozzle	51831	**6Y701**	2
90° Nozzle Assortment Kit	51832	**6Y702**	1
In-Line Check Valve	32091	**6Y707**	2
Female NPT Valve	32093	**6Y709**	2
In-line Valve	32094	**6Y710**	2
Hose Segment 25 ft.	59860	**6Y711**	1
Swivel Nozzle 75	51845	**1DXW1**	2
Nozzle Rama Pack	51849	**1DXW5**	1
Male NPT Valve 1/2" NPT	39852	**1DYA5**	10
Total Flow Control Manifold	32098	**5HK07**	1
In-Line Valve	39854	**5HK10**	10
Flat Nozzle Assortment Pack	51844	**1DXU9**	1
Double Socket	59872	**20Y228**	20
Flat Slot Nozzle 0.125" Slot Height	51841	**1DXU6**	4
Flat 5 Hole Nozzle 0.125" Hole Diameter	51842	**1DXU7**	4
Flare Nozzle 1 ¼" x .165 Slot	59867	**20Y223**	20
Element Clamp w/Screws	59884	**20Y239**	20


Stumpy Spout Lid
No. G3515

OilSafe

Oil Containers and Pumps

Color-coded system manages lubricants from bulk storage to the correct point of use. Fully interchangeable drums and lids. Pumps deliver 1L per about 12 strokes. Fit 3L, 5L, or 10L drums.

Description	Item No.
Fluid Storage Container	
1.5 Liter	**3REL1**
2 Liter	**3REL2**
3 Liter	**3REL3**
5 Liter	**3REL4**
10 Liter	**3REL5**

Item	▶CHOOSE: Color	Item No.
Lids		
Storage Lids	Beige, Black, Blue, Dark Green, Gray, Mid Green, Orange, Purple, Red, Yellow	**G3511**
Utility Lids		**G3512**
Stretch Spout Lids		**G3513**
Mini Spout Lids		**G3514**
Stumpy Spout Lids		**G3515**
Pumps		
Premium Pumps	Beige, Black, Blue, Dark Green, Gray, Mid Green, Orange, Purple, Red, Yellow	**G3644**

Description	Item No.
Accessories	
Stretch Extension Hose With 0.5" Spout Outlet	**3REL7**
Stumpy Extension Hose With 1" Spout Outlet	**3REL8**
Pump Reducer Nozzle 0.25" Outlet	**3REL9**

TRICO Accu-Lube

Lubricant Dispensing Systems

SPRAY COOLING SYSTEMS

Portable Spray Unit—Includes 7" flexible nozzle, 60-lb. magnetic base, and a 7-ft. siphon line with a 40-micron stainless steel filter.

1-Qt. Lil-Mister®—Features liquid level gauge and separate air and coolant controls. 5-ft. brass line. Includes mounting bracket and 6" straight brass nozzle. For light-duty machining operations.

1-Gal. Spraymaster®, Needle Valve—Feature liquid level gauge and individual air and coolant controls on the unit. Brass armored lines and straight brass nozzles.

1-Gal. Spraymaster® II, Solenoid—Coolant is delivered in an adjustable spray using independent air and liquid controls. Brass armored delivery lines. 110V. 7" flexible plastic nozzles with controls at the nozzle.

DROP DISPENSERS

Air-operated systems dispense lubricant to cutting tools. Solenoid-equipped model No. 6Y841 allows for remote shutoff and machine synchronization. Include 18" Loc-Line® nozzles, 6-ft.-long lines, and 16-oz. capacity reservoirs.

LUBRICANTS

Designed for use with Micro-Drop dispensing systems or other microlubrication equipment. (Not intended for mist-coolant systems.) 1-gal. container.

MQL APPLICATORS

Air-operated applicators dispense lubricant to the cutting edge without creating a mist, for near-dry machining and sawing applications. Positive displacement pump with pneumatic timing delivers lube smoothly. Air and liquid flow are easily adjusted. Environmentally safe, minimum-quantity application eliminates hazards from misting. 10-oz. reservoir. Junior Applicators include magnetic base nozzle and magnetic mount. Not for use with synthetic coolants; use MQL Lubricants,

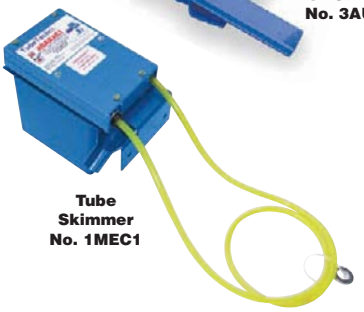

Portable Spray Unit
No. 6Y846


MQL Junior Applicator
No. 1MKP4

Description	No. of Lines	Control Type	Item No.
Trico			
Spray Cooling Systems			
Portable Spray Unit	1	Needle Valve	**6Y846**
1 qt. Lil-Mister®	1	Needle Valve	**6Y845**
1 gal. Spraymaster®, Stainless Steel Reservoir	1	Needle Valve	**6Y847**
	2	Needle Valve	**6Y848**
1 gal. Spraymaster®, Plastic Reservoir	1	Needle Valve	**5JG71**
	2	Needle Valve	**5JG72**
1 gal. Spraymaster® II	2	Solenoid	**5JG74**
Drop Dispensers			
Micro-Drop® Dispenser	2	Manual	**6Y839**
	2	Solenoid-120V	**6Y841**
Lubricants			
Micro-Drop® Advanced Synthetic Metal Cutting Lubricant, 1 gal.			**6Y842**
			6Y843
Accu-Lube			
MQL Applicators			
Junior Production Applicator w/1 Nozzle	—	Pneumatic	**1MKP3**
Junior Production Applicator w/2 Nozzles	—	Pneumatic	**1MKP4**
Band Saw Applicator w/N Nozzle	—	Pneumatic	**1MKP6**



Disk Skimmer
No. 3AU32



Tube
Skimmer
No. 1MEC1



Belt
Skimmer
No.
3BU53



Belt
Skimmer
No.
29UJ11



Belt
Skimmer
No. 6Y757



Portable
Skimmer
No. 6Y752



Magnet-Mount Skimmer
No. 45AP79

ABANAKI OIL SKIMMERS

Oil Skimmers

These skimmers are for removing oil from the surface of coolant or water. Ideal for machining centers, parts washers, and sumps.

DISK SKIMMERS

Remove up to 1½ gph. Boomerang blades wipe more oil. 110V, 1-phase, 60 Hz motor. 12" disk.

No. 3AU32—Housing and frame are made of polymer.

No. 3EJF5—Housing and frame are made of carbon steel.

TUBE SKIMMERS

No. 6KYV8—Oil Viper is the highest capacity industrial tube skimmer. It removes up to 100 gph using a ¾"-dia. tube that floats on the surface of the water to collect oil. 360° wiper cleans tube completely. Carbon steel construction. 110/220V, 1-phase, ⅓ HP, 60 Hz motor. Tubes Nos. 6KYV9 through 6KYW3 sold separately, see Grainger.com.

TubeTastic!™—Light capacity, ⅜"-dia. tube collects up to 1½ gph. Mounts to side of tank. 110V, 1-phase, 60 Hz motor. Tubes Nos. 1MEC2 thru 1MEC6 sold separately, see Grainger.com.

BELT SKIMMERS

Nos. 3BU53 through 3BU56—Collect up to 1 gph. Made of polymer. Include 1" wide elastomer belt. 110V, 1-phase, 60 Hz motor.

Nos. 29UJ11 through 29UJ14—Collect up to 1 gph. Include 1"W synthetic belt. Motor can use 110V outlet or can be directly wired to 12/24V power.

Nos. 6Y757 through 6Y760 —For use in coolant sumps and parts washers. Include 1"W stainless steel belt and 24-hr. timer. 110V, 1-phase, 60 Hz motor. 3-ft. discharge hose. Can be used with Decanter No. 6Y756, sold separately.

Nos. 6Y752 and 6Y753—Remove up to 6 gph. For use in larger coolant sumps and parts washers. Include 2" wide stainless steel belt. Housing and frame are made of polymer. 110V, 1-phase, 60 Hz motor.

MAGNET-MOUNT OIL SEPARATOR

Pumps oil-laden coolant through a filter media chamber which traps debris and tramp oil. The oil is drained away and clean coolant is continuously returned to the coolant sump. Operates at 2.8 gpm. Requires Electric pump and float No. 45AP80 or Pneumatic pump float No. 45AP81, sold separately.

ACCESSORIES

No. 6KYV5 has a 0% to 32% Brix range.

No. 6KYV6 has 0% to 10% Brix range.

No. 6KYV7 has a 0 to 14 pH range.

Description	Reach	Max. Temp. (°F)	Mfr. Model	Item No.
Disk Skimmers				
Skimmer	4"	160°	SCD12	**3AU32**
	4"	160°	SMD12	**3EJF5**
Tube Skimmer				
Oil Skimmer		160°	SVIPER01	**6KYV8**
TubeTastic!™	8 to 24"	140°	STUBE1	**1MEC1**
Belt Skimmers				
Oil Skimmer	8"	140°	SLB-08	**3BU53**
	12"	140°	SLB-12	**3BU54**
	18"	140°	SLB-18	**3BU55**
	24"	140°	SLB-24	**3BU56**
UltraMini Oil Skimmer	8"	140°	SMDC-08	**29UJ11**
	12"	140°	SMDC-12	**29UJ12**
	18"	140°	SMDC-18	**29UJ13**
	24"	140°	SMDC-24	**29UJ14**
Stainless Steel Belt Oil Skimmer	6"	212	SMMS1-06	**6Y757**
	12"	212	SMMS1-12	**6Y758**
	18"	212	SMMS1-18	**6Y759**
	24"	212	SMMS1-24	**6Y760**
Tote It® Portable Oil Skimmers	24"	212	ST2CR-30	**6Y752**
	54"	212	ST2CR-60	**6Y753**
Magnet Mount Oil Separator				
Oil Separator	8 ft.	—	OC300	**45AP79**
Accessories				
Refractometer, For Use With Coolants And Cleaners, Aluminum Construction			R1-A	**6KYV5**
			R1-B	**6KYV6**
pH Tester			PH-A	**6KYV7**
Economixer™ 200			EMIX200	**3EJF6**
For Tube Skimmers				
Drive Finger, For use with No. 6KYV8			PTUBE6-07B	**6KYW4**
Wiper, For use with No. 6KYV8			PTUBE6-09B	**6KYW5**
Tube, For use with No. 6KYV8, 20 Ft Long			BTUBE6-0480	**6KYV9**
Tube, For use with No. 6KYV8, 30 Ft Long			BTUBE6-0720	**6KYW0**
Tube, For use with No. 6KYV8, 35 ft. Long			BTUBE6-0960	**6KYW1**
Tube, For use with No. 6KYV8, 50 Ft Long			BTUBE6-1200	**6KYW2**
Tube, For use with No. 6KYV8, 60 Ft Long			BTUBE6-1440	**6KYW3**
For Belt Skimmers				
Mighty Mini Belt Skimmer, For use with No. 6Y757			BMMS-06	**5HC16**
Mighty Mini Belt Skimmer, For use with No. 6Y758			BMMS-12	**5HC17**
Mighty Mini Belt Skimmer, For use with No. 6Y759			BMMS-18	**5HC18**
Mighty Mini Belt Skimmer, For use with No. 6Y760			BMMS-24	**5HC19**
Tote It® Belt Skimmer For Heavy Duty Oil Skimmer 6Y752			BT2S-0030	**5HC21**
Tote It® Belt Skimmer For Heavy Duty Oil Skimmer 6Y753			BT2S-0060	**5HC22**
For Magnet Mount Oil Separator				
Electrical Pump, For use with No. 45AP79			OC300E	**45AP80**
Pneumatic Pump, For use with No. 45AP79			OC300P	**45AP81**



Opto-Matic®
No. 6Y850



Watchdog®
No. 5JG85



Air/Oil Reservoir
No. 1U550



Wire Guard
No. 5JG79



Electric
Chain Oiler
No. 1U755

TRICO LDI Industries

Oilers

TRICO

Opto-Matic® Constant Level—Zinc-cast construction with zinc plating. Feature adjustable level setting, multiple air vent slots, and side and bottom ports. ¼" pipe thread connection.

Opto-Matic® Closed System—Features adjustable level setting, aluminum body, and glass reservoir. Can be installed on rotating equipment using a ¼" NPT connection port. A pressure balancing line is user-installed between the oiler and the housing to ensure correct operation.

Watchdog®—Integral sight glass allows instant viewing of the oil level in the housing. Oiler is installed on the centerline of the desired oil level; no adjustments are needed. Mounts on rotating equipment using the 1" NPT viewport on a bearing housing or gearbox. Metal body, glass reservoir. Includes wire guard.

Wire Guards—Use these guards with Opto-Matic® oilers.

LDI INDUSTRIES

Air/Oil Reservoir—Converts shop air into low-pressure hydraulic power. Max. operating pressure: base mount up to 80 psi. Fluid outlet is ⅜" NPTF. Air inlet is ¼" NPTF for base mount.

Full Flow Electric Reservoir—Can be connected in series to valve or valve brushes. Closed solenoid provides automatic On/Off and fluid control.

Electric Chain Oiler Reservoirs—Adjustable needle valves set drip feed rate. For automatic operation, wire normally closed solenoid across machine starting switch. Feeding stops when machine is turned off. Include 1.5" x 0.38" nylon brush.

Bowl Cap.	Unit Height from Mount (in.)	W (in.)	Mfr. Model	Item No.
Trico				
Opto-Matic® Constant Level Oilers - Glass Reservoirs				
2½ oz	4.25	2½	30002	**5JG77**
4 oz	5	2 1/16	30003	**6Y849**
8 oz	5 15/16	3 3/16	30005	**6Y850**
16	6 13/16	4⅛	30010	**6Y851**
Opto-Matic® Constant Level Oilers - Butyrate Plastic Reservoir				
4 oz	5 1/16	2 5/16	30064	**5LA36**
Opto-Matic® Closed System Oiler				
4 oz	7 13/16	2 1/16	30203	**5JG82**
Watchdog® Closed System Oiler				
4 oz	6½	3⅜	31825	**5JG85**
Wire Guards				
Fits Oiler Nos. 6Y849 and 5JG82			30013	**5JG79**
Fits Oiler Nos. 6Y850 and 5JG83			30016	**5JG80**
Fits Oiler No. 6Y851			30020	**5JG81**
Ldi Industries				
Air/Oil Reservoir				
47 Cu.-In./Gal.	8 15/16	2	A/OR2053-3	**1U550**
Full Flow Electric Reservoir				
1 Qt.	8 7/16	—	REF154-26	**1U692**
Electric Chain Oiler Reservoirs				
1 Pint	7	—	REB308-N-4-26	**1U755**
1 Qt.	8 7/16	—	REB309-N-4-26	**1U756**



No. 1YMV8



No. 1U585

Desiccant Breathers

TRICO LDI Industries

Max. operating temp.: 200°F

ABS plastic/acrylic construction

Protect and extend service life of industrial equipment by keeping damaging moisture and particulate contamination out. Use silica gel technology to adsorb moisture inside equipment with a color indicator to show when replacement is needed. Dual, antistatic 2 micron filter system collects airborne particulates to reduce sludge buildup in the fluid reservoir.

PRESSURE/VACUUM BREATHER

Allows excess pressure to vent as heat builds up in sealed pressure systems. 20 micron bronze filter. Steel body with aluminum top cap. Buna N seals.

Type	Top Cap Dia. (in.)	H	Thread Size	Brand	Mfr. Model	Item No.
Desiccant Breathers						
D101	5	6.25	1 Male Friction Fit	Trico	39101	**1YMV7**
D102	5	9.25	1 Male Friction Fit	Trico	39102	**1YMV8**
D108	5	11.25	2 (M)NPT	Trico	39108	**1YMV9**
Z131	2	2	½ (F)NPT	Trico	39131	**1YMW1**
Z132	2	3.25	½ (F)NPT	Trico	39132	**1YMW2**
Z133	3¼	2	½ (F)NPT	Trico	39133	**1YMW3**
Z134	3¼	3.25	½ (F)NPT	Trico	39134	**1YMW4**
Pressure/Vacuum Breather						
—	1⅜	2.16	⅜-18	Ldi Industries	PRV201-03	**1U585**



No. 5JG49

TRICO

Automatic Lubrication Pumps

Electric pumps provide automatic and reliable lubrication. For use on milling machines, injection molding machines, punch presses, and many types of industrial equipment. 110V standard. No. 5JG49 has digital control for time intervals and amount of lubrication per cycle.

Container Size	Output	Interval Time Between Cycles	Mfr. Model	Item No.
2 liters	3-6 cc Per Cycle, Adjustable	5 Min.	PE-1202-05	**5JG44**
		10 Min.	PE-1202-10	**5JG45**
		15 Min.	PE-1202-15	**5JG46**
		30 Min.	PE-1202-30	**5JG47**
		60 Min.	PE-1202-60	**5JG48**
3 liters	3.33 cc per Second, Variable Delivery Time of 1-999 Seconds	Adjustable	PE-3003	**5JG49**

Scan. Order. Done.
Details on page A1.



Low Pressure No. 1U915



High Pressure No. 1U926

Liquid Level Sight Plugs/Checks

Can be used as an observation window to check burner flames, gears in motion, and relay or switch operation in sealed housings. Allow visual inspection of fluid levels in gear boxes or reservoirs. Low-pressure sight plugs feature stainless steel reflector to aid viewing of dark fluids. Solid brass body, clear glass sight, and Buna N seals. High-pressure sight plugs have a fused heavy glass window. Steel body with electroless nickel plating. Open view (no reflector).

Note: Not intended for steam applications.

Pipe Thread	Sight Dia. (in.)	Hex Dia. (in.)	Max. Operating (psi)	Body	Mfr. Model	Item No.
Low Pressure Sight Plug						
3/8-18	7/16	3/4	100	Solid Brass	LSP151-03-01	**1U915**
1/2-14	9/16	7/8	100	Solid Brass	LSP151-04-01	**1U916**
3/4-14	3/4	1 1/8	60	Solid Brass	LSP151-05-01	**1U917**
1- 11 1/2	15/16	1 7/16	60	Solid Brass	LSP151-06-01	**1U918**
Sight Plug						
1 1/4- 11 1/2	1 3/16	1 3/4	25	Solid Brass	LSP151-07-01	**1U919**
Low Pressure Sight Plug						
1 1/2- 11 1/2	1 7/16	2	25	Solid Brass	LSP151-08-01	**1U920**
2- 11 1/2	1 7/8	2 1/2	10	Solid Brass	LSP151-09-01	**1U921**
High Pressure Fused Sight						
1/2-14	9/16	15/16	1750	Steel	LSP51-04	**1U923**
3/4-14	3/4	1 1/16	1500	Steel	LSP51-05	**1U924**
1- 11 1/2	15/16	1 3/8	1250	Steel	LSP51-06	**1U925**
1 1/4- 11 1/2	1 3/16	1 3/4	1000	Steel	LSP51-07	**1U926**
1 1/2-11-1/2	1 7/16	2	750	Steel	LSP51-08	**1U927**
2- 11 1/2	1 7/8	2 1/2	500	Steel	LSP51-09	**1U928**

Closed-Circuit Front-Mount Liquid Level Gages

- Aluminum construction with Buna N seals

PIPE ADAPTERS

1/4" NPTF brass pipe adapters for mounting in heavy-wall tank or weld spuds on reservoir walls. Borosilicate sight glass with red line on white background.

DIAL THERMOMETERS

Dial probe thermometer series gage features highly accurate protected sensing element. Stainless steel dial thermometer: 1 3/8" dia., 50° to 300°F. 1/2-20 UNF thread. Borosilicate sight glass with red line on white background.

RIGID PLASTIC SIGHTS

Provides wide-angle viewing through tough, break-resistant transparent cylindrical nylon sight. 1/2-20 UNF thread.

NEEDLE VALVES

Gage body may be removed from valves without loss of fluid. Features brass shut-off valves, 1/2" NPTF thread. Borosilicate sight glass with red line on white background.



Pipe Adapter No. 1U930

Mounting Centers (in.)	Max. Operating (psi)	Max. Operating Temp. (°F)	Mfr. Model	Item No.
Pipe Adapters				
5	290	250	G607-05-A-1-2	**1U929**
6	290	250	G607-06-A-1-2	**1U930**
9	290	250	G607-09-A-1-2	**1U932**
12	270	250	G607-12-A-1-2	**1U933**
Dial Thermometers				
5	125	250	G615-05-A-1	**1U935**
7	125	250	G615-07-A-1	**1U936**
12	125	250	G615-12-A-1	**1U938**
Rigid Plastic Sights				
3	125	225	G613-03-A-1	**1U939**
5	125	225	G613-05-A-1	**1U940**
12	125	225	G613-12-A-1	**1U943**
Needle Valves				
12	270	250	G608-12-A-1-4	**1U944**
18	240	250	G608-18-A-1-4	**1U946**
24	210	250	G608-24-A-1-4	**1U947**
30	185	250	G608-30-A-1-4	**1U948**

Vented Oil Gages

- Brass construction with Buna N seals

Gages provide quick, visual inspection of fluid levels in gear boxes and bearing housings. Protective gage shield rotates for optimum viewing. Glass sight. Short and long elbow gages may be disassembled on site, elbow alone installed, and gage reassembled. Union coupling gages provide a convenient break point.



Elbow, Female No. 1U593



Short Elbow with Drain No. 1U614

Sight Length (in.)	Base Square (in.)	Mounting Thread	Mfr. Model	Item No.
Elbow, Female				
2 1/4	7/8	1/4 NPTF	G404-2	**1U593**
3 1/4	7/8	1/4 NPTF	G406-2	**1U594**
4 1/4	1	3/8 NPTF	G421-3	**1U595**
	1	1/2 NPTF	G421-4	**1U596**
Long Elbow				
4 1/4	7/8	3/8 NPTF	G261-3	**1U605**
	7/8	1/2 NPTF	G261-4	**1U606**
Union Coupling				
2 3/4	1 1/16	1/4 NPTF	G655-2	**1U608**
4 1/4	1 1/16	1/4 Male NPTF	G657-2	**5HD47**
Short Elbow with Drain				
4 1/4	7/8	1/2 NPTF	G901-4	**1U614**
Vented				
2 3/4	1 1/16	1/4 NPTF	G305-2	**5HD40**
4 1/4	1 1/16	1/4 NPTF	G307-2	**5HD42**
	1 1/16	3/8 NPTF	G307-3	**5HD43**
	15/16	1/2 Male NPTF	G321-4	**5HD44**
7 1/2	15/16	1/2 Male NPTF	G323-4	**5HD45**

Vents

FILTER VENTS

Relieve excessive pressure from gearboxes. 40 micron filter element. Steel and zinc construction.

PROTECTED VENTS

Provide a labyrinth air path to restrict direct entry of dirt and moisture to reservoir or gearbox. Aluminum construction.

RELIEF/FILLER VENT PLUGS

Dual-purpose relief or filler vent plugs can be used for gearbox housings and bearings to eliminate excessive pressure. Automatic reset for continuous duty. Plated steel and brass construction.



No. 1U568



No. 1U573

Thread Size (PTF)	Dia. Hex Head (in.)	Overall Length (in.)	Mfr. Model	Item No.
Filter Vents				
1/4	3/4	1 3/16	FV102-S	**1U566**
1/2	15/16	1 1/4	FV104-S	**1U568**

Thread Size (PTF)	Top Cap Dia. (in.)	Base Square (in.)	Overall Length (in.)	Mfr. Model	Item No.
Protected Vents					
1/8	3/4	1/2	1 1/8	AV101	**1U569**
1/4	3/4	9/16	1 3/16	AV102	**1U570**
3/8	1	11/16	1 1/4	AV103	**1U571**
1/2	1 1/4	7/8	1 5/16	AV104	**1U572**

Thread Size (PTF)	Dia. Hex Flats (in.)	Overall Length (in.)	PSI	Mfr. Model	Item No.
Relief/Filler Vent Plugs					
1/4-18 PTF	9/16	1 1/8	1-5	PRV102-2	**1U573**
3/8-18	11/16	1 3/16	1-5	PRV103-2	**1U577**

Flow Sights

- Brass construction with Buna N seals

Can be used in vertical or horizontal fluid lines to observe fluid flow, condition, or clarity. Borosilicate glass sight window. Female x female PTF. Models with nylon ball indicator aid viewing of dark fluids in dim light conditions.

Note: Not intended for steam applications.



Inline Double Window No. 1U892



Wide View No. 1U903

Pipe Thread	Dia. Hex Flats (in.)	Sight Length (in.)	Overall Length (in.)	Max. Operating psi @ 150°F	Mfr. Model	Item No.
Inline Double Window Flow Sights						
1/4-18	7/8	1 1/16	3 3/16	435	F152	**1U892**
1/2-14	1 1/4	1 5/16	4 5/8	380	F154	**1U894**
3/4-14	1 3/8	1 3/8	5 1/4	345	F155	**1U895**
Inline Double Window Flow Sight with Nylon Ball						
1/4-18	7/8	1 1/16	3 3/16	435	F152-01	**1U897**
1/2-14	1 1/4	1 5/16	4 5/8	380	F154-01	**1U899**
3/4-14	1 3/8	1 3/8	5 1/4	345	F155-01	**1U900**
Double Window Flow Sights with Nylon Ball						
1- 11 1/2	—	—	4 5/8	160 @ 150	F251-06-01	**1U910**
Wide View Flow Sights with Nylon Ball						
1/2-14	—	—	4 1/4	130 @ 212	F301-04-01	**1U903**
3/4-14	—	—	4 1/4	130 @ 212	F301-05-01	**1U904**
1- 11 1/2	—	—	4 7/8	130 @ 212	F301-06-01	**1U905**

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

LubeSite® WESTWARD®

Grease Feeders

Mount in any position. Spring tension 1 to 2 psi; ⅛" NPT. Include extra light and heavy springs. Activation is immediate and can be uoedo with any NLGI 0 to 4 nonseparating grease.

Polycarbonate—Use all-polycarbonate for minimal vibration operating conditions. Units with metal base are for dynamic and vibrating conditions. Units with corrosion-resistant metal base can be used in chemical and food processing.
- Temp. range: -10° to 250°F



No. 6Y735

High Temperature—Borosilicate glass, stainless steel cap, and temperature-resistant Viton® seal construction.
- Temp. range: -10° to 450°F

Lubeline™ Remote Grease Refill Kit—Allows refill of hard-to-reach sites. Works with all polycarbonate and high temperature grease feeder models.


No. 6Y742

Cap. (oz.)	H (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
All Polycarbonate					
2	4⅝	2⅜	Lubesite	205	**6Y734**
6	6	3	Lubesite	260	**5HC15**
Polycarbonate with Metal Base					
1	3⅝	1¾	Lubesite	302	**6Y735**
2	4⅝	2⅜	Lubesite	305	**6Y736**
6	6	3	Lubesite	360	**6Y737**
Polycarbonate with Corrosion-Resistant Metal Base					
1	3⅝	1¾	Lubesite	502	**6Y738**
2	4⅝	2⅜	Lubesite	505	**6Y739**
6	6	3	Lubesite	560	**6Y740**
High Temperature					
4	7⅛	3¼	Lubesite	704	**6Y741**

Item	Includes	Brand	Mfr. Model	Item No.
Accessories				
Remote Grease Refill Kit	All Required Fittings and 10 Feet of High Pressure Nylon Tubing	Lubesite	900	**6Y742**
Grease Refill Kit	Tube with All Required Fittings	Westward	—	**35PC05**

Grease Dispensers

TRICO

Microprocessor-controlled, prefilled dispensers apply a precise flow of grease to critical machine parts. Easy-to-read LCD.

Streamliner® V—Ideal for industries where high moisture, accelerated temperatures, and other contaminants are present. Operating pressure of 80 psi. 6 variable dispensing rates: 1, 2, 3, 6, or 12 mo., and purge.

Streamliner® M—Antivibration, break-free design allows unit to be deactivated and adjusted as necessary. High operating pressure of 280 psi. Up to 8-point lubrication capability. 6 variable dispensing rates: ½, 1, 2, 3, 6, or 12 mo. Service packs with grease pouch, battery pack, and cover sold separately.


No. 1YMX8

Includes	Capacity	NPT	H (in.)	Mfr. Model	Item No.
Streamliner® V					
Exxon UnirexR EP2 Grease	125cc	⅜"	5⅜	33334	**1YMX3**
	250cc	⅜"	6	33341	**1YMW6**
Mobilith FM 222 Grease	250cc	⅜"	6	33343	**1YMW8**
Mobilith SHCR 220 Grease	125cc	⅜"	5⅜	33337	**1YMX6**
	250cc	⅜"	6	33344	**1YMW9**
Mobilith SHCR PM 460 Grease	125cc	⅜"	5⅜	33338	**1YMX7**
	250cc	⅜"	6	33345	**1YMX1**
Mobilith SHC 100 Grease	125cc	⅜"	5⅜	33335	**1YMX4**
	250cc	⅜"	6	33342	**1YMW7**
Mobilith XHP 222 Grease	125cc	⅜"	5⅜	33333	**1YMX2**
	250cc	⅜"	6	33340	**1YMW5**

Description	Capacity	NPT	H (in.)	Mfr. Model	Item No.
Streamliner® M					
Dispenser	250cc	⅜"	8⅜	33348	**1YMX8**
Service Pack, Exxon Unirex® EP2	250cc	—	3	33357	**1YMY1**
Service Pack, Mobilith FM 222	250cc	—	3	33359	**1YMY3**
Service Pack, Mobilith SHC® PM 460	250cc	—	3	33361	**1YMY5**
Service Pack, Mobilith SHC® 220	250cc	—	3	33360	**1YMY4**
Service Pack, Mobilith XHP 222	250cc	—	3	33356	**1YMX9**

LDI Industries

Reservoirs

- Aluminum construction and Buna N seals
- Max. temp: 140°F for polymer bowls, 180°F for borosilicate glass bowls (except RDF Series)
- Ratings at atmospheric pressure (except where noted)

Break-resistant, transparent polymer bowl allows full 360° view of fluid. Nos. 1U623, 1U669, and 1U671 have borosilicate glass bowl, enhancing fluid compatibility and thermal shock resistance. RDB300, R100, RDF, and RFF100 Series disassembles for cleaning.

RDB300 Series Manual Control Chain Oilers—Visible drip rate. On/Off toggles do not affect previously set feed rate. 1.5" x 0.38" nylon bristle brush can be trimmed.
- Max. temp.: 250°F for nylon brushes

R100 Series Gravity Feed Reservoirs without Flow Control—For use as makeup or replenishing reservoirs. Self-closing snap lid filler caps.

RCL Series Constant Level Reservoir—Automatically maintains oil levels in bearing, pump, or gear housings. Large surge capacity. Bottom outlet can be used as drain. Side or bottom mount.
- ⅛" PTF air vent
- ½" NPTF outlet

RDF Series Drop Feed Reservoirs—Dispense oil by gravity from reservoir bowl through adjustable needle valve. Feature vented sight chamber, adjustable metering, toggle shutoff, and self-closing filler cap.
- 1500 SSU max. viscosity
- Pipe thread/NPTF, except No. 1U680 is straight thread/remote mount
- Fluid temp.: 250°F for glass bowl


REO Series
No. 1U669

REM Series Multiple Feed Electro Reservoir—Automatically controls full flow of lubrication from a single reservoir to 2 locations. Adjustable needle valve controls drip feed rate.
- 120V/60 Hz, 1-phase solenoid
- Class B molded water-resistant coil

REO Series Automatic Solenoid-Controlled Lubricators—Provide controlled lubrication through a needle valve.
- 120V/60 Hz, 1-phase solenoid
- Class B molded water-resistant coil

RFF100 Series Full Flow Dispensers—Use as central dispensers for lubrication systems. Oil can be shut off manually. Vented, self-closing snap lid filler cap.

RVP Series Air-Operated Reservoir—Allows accurate spray pattern adjustment while applying lubricants.
- 40-micron filter
- ¼" NPTF air inlet/outlet
- ⅛" NPTF oil to valve
- Max. inlet unregulated air pressure: 125 psi
- Max. regulated air and fluid pressure: 30 psi

Bowl Capacity	Bowl Dia.	Bowl Material	Unit Height	H (in.)	Mounting Thread	Mfr. Model	Item No.
RDB300 Series Manual Control Chain Oilers							
9 oz.	3	Polymer	7	—	⅝-18	RDB306-N-4	**1U745**
1 pt.	3½	Polymer	8⅜	—	⅝-18	RDB308-N-4	**1U747**
1 qt.	4¼	Polymer	9⅜	—	⅝-18	RDB309-N-4	**1U748**
R100 Series Gravity Feed Reservoirs without Flow Control							
1 oz.	1½	Polymer	3	—	⅛	R151-01	**1U625**
8 oz.	2½	Polymer	5⅜	5⅜	¼	R107-02	**1U636**
12 oz.	3	Polymer	6 7/16	—	⅜	R109-03	**1U639**
1 qt.	4¼	Polymer	7 15/16	—	⅜	R111-03	**1U643**
1 gal.	5½	Polymer	15¼	—	½	R113-04	**1U647**
RCL Series Constant Level Reservoir							
9 oz.	3	Glass	6 3/16	—	½	RCL313	**1U623**
RDF Series Drop Feed Reservoirs							
⅝ oz.	1½	Polymer	4 3/16	—	⅛	RDF101-01	**1U648**
1½ oz.	1¾	Polymer	5⅜	—	¼	RDF103-02	**1U650**
5 oz.	2½	Polymer	6⅜	—	⅜	RDF105-03	**1U652**
9 oz.	3	Polymer	7⅜	—	⅜	RDF107-03	**1U653**
1 pt.	3½	Polymer	8 15/16	—	⅜	RDF109-03	**1U657**
	3½	Glass	8 15/16	—	⅜	RDF109-13	**1U669**
	3½	Polymer	9⅛	—	½	RDF109-04	**1U658**
	3½	Polymer	8 15/16	—	⅝-18	RDF109-08	**1U680**
1 qt.	4¼	Polymer	10⅛	—	½"	RDF110-04	**1U659**
	4¼	Glass	10⅛	—	½	RDF110-14	**1U671**
½ gal.	5½	Polymer	12⅛"	12 1/16	½	RDF111-04	**1U660**
REM Series Multiple Feed Electro Reservoir							
1 qt.	—	—	—	—	⅝-18	REM154-02-26	**1U725**
REO Series Automatic Solenoid Controlled Lubricators							
1 pt.	—	Polymer	7"	7	⅝-18	REO155-26	**1U699**
1 qt.	—	Polymer	8 7/16"	8 7/16	⅝-18	REO156-26	**1U700**
RFF100 Series Full Flow Dispensers							
9 oz.	3	Polymer	6⅛	—	⅝-18	RFF101	**1U683**
1 qt.	4¼	Polymer	9⅛	—	⅝-18	RFF104	**1U686**
RVP Series Air Operated Reservoirs							
1 gal.	—	—	19¼	—	9/16-24	RVP103	**1U764**
Accessories							
Spray Valve for Use with No. 1U764, Flat Pattern						SV101	**1U766**
Spray Valve for Use with No. 1U764, Round Pattern						SV102	**1U767**



WESTWARD

Industrial-Duty Bottle Jacks

- Steel construction
- Blue enamel, air-dry finish
- Include handle

Protects hydraulic system from over pumping. Hard cast iron steel construction and heat-treated extension screw saddles on 2- to 20-ton models. Precision-machined release valves provide positive load control on jack descent. Wide base provides better stability and strength.

Lifting Capacity	Hydraulic Stroke	Lifting Height Min.	Lifting Height Max.	Item No.
2 tons	4⅝"	7⅛"	13¾"	**3ZC58**
4 tons	5"	8⅛"	15½"	**3ZC59**
6 tons	5⅛"	8½"	16⅝"	**3ZC60**
8 tons	6"	8⅞"	17⅝"	**3ZC61**
12 tons	6"	9⅜"	18½"	**3ZC62**
	3⅛"	6"	10¾"	**3ZC56**
20 tons	6"	9½"	18⅜"	**3ZC63**
	3⅛"	6½"	11¼"	**3ZC57**
30 tons	7"	11"	18"	**3ZC64**



SIMPLEX

Screw Jacks

Ductile-iron housing. Serrated, drop-forged steel load cap accepts steel-bar handle (sold separately) at any of 4 angles to vary the lifting force.

Lifting Cap. (tons)	Lifting Ht. (in.) Min.	Lifting Ht. (in.) Max	Base Size (in.)	Saddle Size (in.)	Mfr. Model	Item No.
12	9¾	13½	4¾	2⅞	SJ156	**3PCT3**
	11⅜	17⅜	5½	2⅞	SJ158	**3PCT4**
	15⅜	25⅜	6¼	2⅞	SJ1512	**3PCT5**
20	11¾	16¾	6	3⅛	SJ208	**3PCT6**
	13¾	20¾	6½	3⅛	SJ2010	**3PCT7**
	15¾	24¾	6¾	3⅛	SJ2012	**3PCT8**
24	13	17¼	6½	3¼	SJ258	**3PCT9**
	17	25¼	7¼	3¼	SJ2512	**3PCU1**
	23	37¼	8½	3¼	SJ2518	**3PCU2**

Description	Mfr. Model	Item No.
Steel-Bar Handles		
For 12 Ton Units	SLB24	**3PCU3**
For 20 Ton Units	SLB35	**3PCU4**
For 24 Ton Units	SLB42	**3PCU5**



ENERPAC

Hand and Foot Pumps

Steel construction, except where indicated. 2-speed models have high flow at low pressure and low flow at higher pressure. All units are shipped with oil.

Lightweight—Designed with handle lock and for easy portability. Durable glass-filled nylon reservoir, nylon encapsulated aluminum pump base for maximum corrosion resistance, and an internal pressure relief valve for overload protection. No. 46C563 has integral 4-way valve for operating the double-acting cylinders.

Ultima Series Steel—Pumps operate with reduced handle effort and an ergonomic grip for less operator fatigue. Vent-free reservoir eliminates spills and integral reservoir over pressurization protection. The quick grip handle allows for easy transport.

Low-Pressure—Feature external load-release valve, and internal pressure-relief valve for overload protection. Nos. 46C557 and 46C560 pump oil both forward and reverse handle movement, improving overall efficiency. Ideal where mounting space is restricted. No. 46C561 can be operated in horizontal and vertical position with pump head and oil outlet facing downwards.

Ultra-High Pressure—Allows for a faster fill and reduced cycling time. Feature a large release knob that allows improved control of pressure release. Aluminum construction, except for ultra-high pressure stainless steel fittings.

Hydraulic Foot Pump—Compact unit is lightweight composite construction, with steel frame, internal pressure relief valve, and large foot-pad release for controlled return. Foot pedal lock allows for greater portability.

Repair Kits—No. 1ANV4 includes screen and all related balls, washers, O-rings, gaskets, retaining rings, and pins. No. 1ANV5 includes filter assembly, screen, inlet adapter, and all related O-rings, balls, washers, gaskets, and springs.

Description	No. of Stages	Reservoir Cap.	Max. Press. 1st Stage	Max. Press. 2nd Stage	Displacement Per Stroke 1st Stage	Displacement Per Stroke 2nd Stage	Max. Handle Effort	Port Size	Mfr. Model	Item No.
Hydraulic Hand Pumps										
Single-Acting										
Lightweight	1	20 cu. in.	—	10,000 psi	—	0.05 cu. in.	72 lb.	¼" NPT	P141	**18Y532**
	1	55 cu. in.	—	10,000 psi	—	0.15 cu. in.	85 lb.	⅜" NPT	P391	**46C558**
	2	20 cu. in.	200 psi	10,000 psi	0.22 cu. in.	0.05 cu. in.	78 lb.	¼" NPT	P-142	**6W461**
	2	55 cu. in.	200 psi	10,000 psi	0.22 cu. in.	0.05 cu. in.	63 lb.	¼" NPT	P202	**46C556**
	2	55 cu. in.	200 psi	10,000 psi	0.68 cu. in.	0.15 cu. in.	93 lb.	⅜" NPT	P-392	**6W462**
	2	155 cu. in.	400 psi	10,000 psi	2.40 cu. in.	0.15 cu. in.	95 lb.	⅜" NPT	P-802	**3KD31**
Ultima Series Steel	1	47 cu. in.	—	10,000 psi	—	0.15 cu. in.	111 lb.	⅜" NPT	P-39	**4Z480**
	2	41 cu. in.	200 psi	10,000 psi	1.00 cu. in.	0.15 cu. in.	88 lb.	⅜" NPT	P77	**4YDY5**
	2	134 cu. in.	500 psi	10,000 psi	1.00 cu. in.	0.15 cu. in.	77 lb.	⅜" NPT	P-80	**4Z481**
	2	249 cu. in.	500 psi	10,000 psi	0.99 cu. in.	0.15 cu. in.	104 lb.	⅜" NPT	P801	**4YDY6**
	2	453 cu. in.	200 psi	10,000 psi	7.69 cu. in.	0.29 cu. in.	110 lb.	⅜" NPT	P-462	**4PU57**
Low-Pressure	1	22 cu. in.	2850 psi	—	0.15 cu. in.	—	34 lb.	⅜" NPT	P18	**18Y533**
	1	200 cu. in.	2500 psi	—	0.58 cu. in.	—	60 lb.	¼" NPT	P25	**46C557**
	1	200 cu. in.	5000 psi	—	0.29 cu. in.	—	60 lb.	¼" NPT	P50	**46C560**
	1	50 cu. in.	3000 psi	—	0.25 cu. in.	—	61 lb.	⅜" NPT	P51	**46C561**
Ultra-High Pressure	2	60 cu. in.	200 psi	40,000 psi	0.99 cu. in.	0.37 cu. in.	106 lb.	¾"-16 UNF	P2282	**4YDY4**
Double-Acting										
Lightweight	2	155 cu. in.	400 psi	10,000 psi	2.40 cu. in.	0.15 cu. in.	95 lb.	⅜" NPT	P842	**46C563**
Ultima Series Steel	2	134 cu. in.	500 psi	10,000 psi	1.00 cu. in.	0.15 cu. in.	77 lb.	⅜" NPT	P84	**46C562**
	2	453 cu. in.	200 psi	10,000 psi	7.69 cu. in.	0.29 cu. in.	110 lb.	⅜" NPT	P464	**46C559**
Hydraulic Foot Pump										
Single-Acting										
Lightweight	2	38 cu. in.	200 psi	10,000 psi	0.69 cu. in.	0.15 cu. in.	93 lb.	⅜" NPT	P-392FP	**2RV20**
Repair Kits										
Hydraulic Hand Pump Repair Kit for 4Z480									P39K4	**1ANV4**
Hydraulic Hand Pump Repair Kit for No. 6W462									P391K2	**1ANV5**

Electric Pumps

ENERPAC

- 115VAC, 50/60 Hz
- ⅜" NPT fluid port

Universal motor, except No. 6BU67 has induction-type motor.

Portable—2-speed operation. Pumps start under full load. Designed for intermittent duty-cycle. No. 26VY57 is double-acting.

Z-Class—Heavy-duty bearings with steel reservoirs. No. 6BU67 includes low-voltage pendant with sealed switches. Designed for extended cycle applications of more than 1 hr. Nos. 6BU65 and 6BU66 are designed for intermittent use under 1 hr. No. 26VY45 features backlit LCD with built-in hour meter and diagnostics.



No. 5ZL45

Reservoir Capacity (cu.-in.)	Reservoir Capacity (gal.)	Oil Displacement @ 100 psi	Oil Displacement @ 10,000 psi	Control Valve	HP	Mfr. Model	Item No.
Portable							
115	0.5	200 cu. in./min.	20 cu. in./min.	3 Way, 2 Postion	0.5	PUJ-1200B	**4ZC75**
122	0.5	200 cu. in./min.	20 cu. in./min.	Dump	0.5	PUD1100B	**46C554**
231	1	200 cu. in./min.	20 cu. in./min.	Dump	0.5	PUD1101B	**46C555**
231	1	200 cu. in./min.	20 cu. in./min.	3-way, 2-position, For Advance/Release of Cylinder	0.5	PUJ-1201B	**5ZL45**
231	1	200 cu. in./min.	20 cu. in./min.	4 Way, 3 Position	0.5	PUJ1401B	**26VY57**
Z-Class							
462	2	450 cu. in./min.	40 cu. in./min.	Remote 3 Way/3 Position	1.0	ZE3308SB	**6BU67**
462	2	700 cu. in./min.	60 cu. in./min.	Manual 3 Way/3 Position	1.7	ZU4308MB	**6BU65**
462	2	700 cu. in./min.	60 cu. in./min.	Manual 3 Way/3 Position, With LCD Display	1.7	ZU4308LB	**6BU66**
462	2	700 cu. in./min.	60 cu. in./min.	Remote, 4 Way, 3 Position, Tandem Center	1.7	ZU4408SB	**26VY45**

Air Pumps

ENERPAC

- Max. pressure: 10,000 psi
- ¼" NPT air inlet
- ⅜" NPT fluid port
- Include swivel air coupling on air intake port

Turbo II—Pumps start at extremely low pressure. Reinforced HD reservoir. 76 dBA.

Hand- or Foot-Operated—3-position treadle for cylinder advance/hold/retract. Can be used in all positions. No. 4Z482 includes built-in carrying handle and base mounting slots.

Z-Class Pump—High-efficiency 2-speed pump offers higher oil flow, higher bypass pressure, and a larger-capacity oil reservoir with sight gauge. Includes carrying handle and manual valve.

XA-Class Foot-Operated—2-pedal design features variable air flow and fine metering, with high oil flow. Externally adjustable pressure valve. Pedal locks. Include ground screw for improved ATEX explosion safety.



No. 1Z907

Reservoir Capacity (cu.-in.)	Reservoir Capacity (gal.)	Oil Displacement @ 0 psi	Oil Displacement @ 10,000 psi	Operating Air PSI	Air Consumption (SCFM)	Built-In	Mfr. Model	Item No.
Turbo II								
127.00	½	48.00 cu. in./min.	5 cu. in./min.	125	8	Pressure Relief Valve	PARG1102N	**46C553**
	0.54	60.00 cu. in./min.	10 cu. in./min.	40 to 125	12	Internal Pressure Relief Valve	PATG-1102N	**1Z907**
230.00	1	60.00 cu. in./min.	10 cu. in./min.	125	12	Pressure Relief Valve	PAMG1405N	**46C552**
	1.0	60.00 cu. in./min.	10 cu. in./min.	40 to 125	12	Internal Pressure Relief Valve	PATG-1105N	**5ZL44**
Hand or Foot Operated								
36.00	0.15	40.00 cu. in./min.	8 cu. in./min.	60 to 120	9	Pressure Control Valve	PA-133	**4Z482**
80.00	0.15	40.00 cu. in./min.	8 cu. in./min.	60 to 120	9	—	PA1150	**18Y534**
Z-Class Pump								
404.00	1.75	850.00 cu. in./min.	80 cu. in./min.	60 to 100	20 to 100	Pressure Relief Valve	ZA4208MX	**1MTF4**
XA-Class Foot Operated								
61.00	0.26	120.00 cu. in./min.	15 cu. in./min.	30 to 125	10 to 35	Pressure Control Valve	XA11	**2LML7**
	0.26	120.00 cu. in./min.	15 cu. in./min.	30 to 125	10 to 35	Sight Gauge	XA11G	**18Y553**
122.00	0.52	120.00 cu. in./min.	15 cu. in./min.	30 to 125	10 to 35	—	XA12	**18Y554**
	0.52	120.00 cu. in./min.	15 cu. in./min.	30 to 125	10 to 35	Sight Gauge	XA12G	**18Y555**



No. 5ZL44

ENERPAC

Air Hydraulic Work Holding Pumps

- Operating air: 50 to 125 psi
- Cap.: 1250 to 5000 psi
- Air inlet: ¼" (F)NPT
- Hydraulic-to-air ratio: 45:1 (3000 series); 60:1 (5000 series)

Pumps have on-demand stall-restart operation and generate hydraulic pressure by using air pressure. Feature adjustable pressure relief valves. D03 valves are required for proper operation; sold separately at Grainger.com®. Swing and Threaded Body Cylinders are available on Grainger.com®.

Reservoir Cap. (gal.)	Oil Cap. (cu. in.)	Oil Displacement @ 0 psi	Oil Displacement @ 5000 psi	Includes	Mfr. Model	Item No.
3000 Series						
0.65	127.00	120.00 cu. in./min.	20 cu. in./min.	Gauge and Bracket	PACG5002SB	**5UXA8**
	127.00	180.00 cu. in./min.	—	Gauge and Bracket	PACG3002SB	**5UXA5**
	127.00	180.00 cu. in./min.	—	D03 Valve Manifold	PASG3002SB	**5UXC1**
2	462.00	180.00 cu. in./min.	—	Gauge	PACG30S8S	**5UXA6**
	462.00	180.00 cu. in./min.	—	2 Station Manifold	PACG30S8SMB2	**5UXA7**
	462.00	180.00 cu. in./min.	20 cu. in./min.	D03 Valve Manifold	PASG30S8S	**5UXC2**
5000 Series						
0.65	127.00	120.00 cu. in./min.	20 cu. in./min.	D03 Valve Manifold	PASG5002SB	**5UXC3**
2	462.00	120.00 cu. in./min.	20 cu. in./min.	Gauge	PACG50S8S	**5UXA9**
	462.00	120.00 cu. in./min.	20 cu. in./min.	2 Station Manifold	PACG50S8SMB2	**5UXC0**
	462.00	120.00 cu. in./min.	20 cu. in./min.	D03 Valve Manifold	PASG50S8S	**5UXC4**

Cordless Hydraulic Pump

ENERPAC

- Max. pressure: 10,000 psi
- ½ HP

Portable hand pump with powerful 28V lithium-ion battery delivers exceptional speed and run time. Bladder reservoir helps prevent contamination and allows pump usage in any position. Features directional control valve, safety lock, and On/Off switch. Use in remote locations without access to power or indoors where trip hazards are a concern. Includes built-in handle, charger, 2 batteries, and carrying strap. Compatible with all Enerpac® hydraulic tools and small to medium cylinders.


No. 46C543

Reservoir Cap. (gal.)	Oil Displacement @ 100 psi	Oil Displacement @ 5000 psi	Control Valve	Mfr. Model	Item No.
.52	125 cu. in./min.	20 cu. in./min.	On/Off Trigger	XC1202MB	**46C543**

ENERPAC

Electric Hydraulic Work Holding Pumps

- Max. pressure: 5,000 psi

Use to pressurize palletized hydraulic fixtures that have single-acting clamps. 115VAC; 50/60 Hz. No. 5UXC5 is a 2-stage, submersible single-acting pump. 115V. No. 5UXC6 has an adjustable pressure switch to control pump shutdown at pressure.


No. 5UXC8

Reservoir Cap. (gal.)	Oil Displacement @ 100 psi	Oil Displacement @ 5000 psi	Control Valve	Mfr. Model	Item No.
0.5	200 cu. in./min.	25 cu. in./min	Dump	WUD1100B	**5UXC7**
	200 cu. in./min.	25 cu. in./min	Dump and Hold	WUD1300B	**5UXC8**
1.5	150 cu. in./min.	40 cu. in./min.	Dump	WED1101B	**5UXC5**
	150 cu. in./min.	40 cu. in./min.	Manual 2 Position 3 Way	WES1201B	**5UXC6**

Standard Hydraulic Rams

ENERPAC





Extreme Environment Rams—Nickel-plated to resist corrosion in extreme environments. Viton seals are heat- and chemical-resistant.

General Purpose Rams—They have a maximum working pressure of 10,000 psi.

High Cycle Rams—Mounting configurations allow them to be attached to fixtures.

Lightweight Rams—Made of aluminum so they weigh less than standard steel hydraulic rams, making them more portable and easier to transport.

Low Profile Rams—Feature low height when fully retracted, allowing them to be used in tight or confined spaces.

Low Profile Hand Jacks—Feature an integrated pump and handle for manually lifting heavy loads without requiring external connections. Ideal for use where there are a small or narrow clearances.

Lift Kit Rams—Lift-kit rams are used with cribbing blocks and stackable adapters that allow the rams to lift or separate items in stages.

Nominal Capacity	Nominal Stroke Length	Effective Push Area	Retracted Height	Series	Item No.
Extreme Environment					
5 ton	3"	1.00 sq. in.	6.50"	RC	**1MTF2**
10 ton	2"	2.25 sq. in.	4.78"	RC	**1MTF1**
10 ton	6"	2.25 sq. in.	9.75"	RC	**1MTE9**
25 ton	6"	5.16 sq. in.	10.75"	RC	**23NP32**
General Purpose					
5 ton	5/8"	0.99 sq. in.	1.63"	RC	**3KD48**
5 ton	1"	0.99 sq. in.	4.34"	RC	**3KD49**
5 ton	3"	0.99 sq. in.	6.50"	RC	**4Z483**
5 ton	5"	0.99 sq. in.	8.50"	RC	**4Z484**
5 ton	7"	0.99 sq. in.	10.75"	RC	**3KD50**
5 ton	9"	0.99 sq. in.	12.75"	RC	**3KD51**
10 ton	7/8"	2.24 sq. in.	3.47"	RCS	**6Z066**
10 ton	1"	2.24 sq. in.	3.53"	RC	**3KD42**
10 ton	2"	2.24 sq. in.	4.78"	RC	**4Z485**
10 ton	4"	2.24 sq. in.	6.75"	RC	**6Z783**
10 ton	6"	2.24 sq. in.	9.75"	RC	**4Z486**
10 ton	8"	3.14 sq. in.	11.75"	RC	**3KD43**
10 ton	10"	2.23 sq. in.	16.13"	RR	**23NR29**
10 ton	10"	2.24 sq. in.	13.75"	RC	**4Z487**
10 ton	12"	2.23 sq. in.	18.00"	RR	**23NR30**
10 ton	12"	2.24 sq. in.	15.75"	RC	**2NWH4**
10 ton	14"	2.24 sq. in.	17.75"	RC	**2NWH5**
15 ton	1"	3.14 sq. in.	4.88"	RC	**2NWH6**
15 ton	2"	3.14 sq. in.	5.88"	RC	**3KD44**
15 ton	4"	3.14 sq. in.	7.88"	RC	**5ZL46**
15 ton	6"	3.14 sq. in.	10.69"	RC	**6W463**
15 ton	8"	3.14 sq. in.	12.69"	RC	**5ZL47**
15 ton	10"	3.14 sq. in.	14.69"	RC	**6W464**
15 ton	12"	3.14 sq. in.	16.69"	RC	**18Y536**
15 ton	14"	3.14 sq. in.	18.69"	RC	**23NP31**
20 ton	5/8"	4.43 sq. in.	3.88"	RCS	**6Z067**
25 ton	1/4"	3.14 sq. in.	14.75"	RC	**6W473**
25 ton	1"	5.16 sq. in.	5.50"	RC	**5ZL48**
25 ton	2"	5.16 sq. in.	6.50"	RC	**3KD45**
25 ton	4"	5.16 sq. in.	8.50"	RC	**3KD46**
25 ton	6"	5.16 sq. in.	10.75"	RC	**4Z488**
25 ton	8"	5.16 sq. in.	12.75"	RC	**3KD47**
25 ton	12"	5.16 sq. in.	16.75"	RC	**2NWH7**
25 ton	14"	5.16 sq. in.	18.75"	RC	**2NWH8**
30 ton	2"	6.49 sq. in.	4.63"	RCS	**6Z068**
30 ton	8"	6.51 sq. in.	15.25"	RR	**23NR36**
30 ton	8"	6.49 sq. in.	15.25"	RC	**5ZL49**
30 ton	15"	6.51 sq. in.	21.63"	RR	**23NR35**
50 ton	2"	9.62 sq. in.	4.81"	RCS	**6Z272**
50 ton	2"	11.04 sq. in.	6.94"	RC	**5ZL50**
50 ton	4"	11.04 sq. in.	8.94"	RC	**5ZL51**
50 ton	6"	11.06 sq. in.	13.06"	RR	**23NR39**
50 ton	6"	11.04 sq. in.	11.13"	RC	**4Z489**
50 ton	13"	11.06 sq. in.	20.06"	RR	**23NR37**
50 ton	13"	11.04 sq. in.	18.13"	RC	**2NWJ1**
50 ton	20"	11.06 sq. in.	28.88"	RR	**23NR38**
75 ton	6"	15.92 sq. in.	13.69"	RR	**23NR40**
75 ton	6"	15.90 sq. in.	11.25"	RC	**18Y538**
75 ton	13"	15.90 sq. in.	19.38"	RC	**18Y537**
100 ton	2"	19.63 sq. in.	5.56"	RCS	**4PU63**
100 ton	7"	20.65 sq. in.	13.69"	RR	**23NR28**
100 ton	7"	20.63 sq. in.	14.06"	RC	**2NWH3**
100 ton	10"	2.24 sq. in.	17.69"	RC	**18Y535**
100 ton	18"	20.65 sq. in.	27.06"	RR	**23NR27**
150 ton	2"	30.71 sq. in.	7.19"	RR	**23NR31**
150 ton	6"	30.71 sq. in.	15.19"	RR	**23NR32**
150 ton	12"	33.14 sq. in.	19.57"	HCR	**444N47**
200 ton	6"	44.21 sq. in.	16.94"	RR	**23NR33**
300 ton	6"	70.93 sq. in.	19.13"	RR	**23NR34**
High Cycle					
4 ton	1"	0.79 sq. in.	7.31"	RD	**18Y543**
4 ton	3"	0.79 sq. in.	9.31"	RD	**18Y544**
4 ton	6"	4.91 sq. in.	16.69"	RD	**18Y542**
9 ton	1"	1.77 sq. in.	8.75"	RD	**18Y546**
9 ton	3"	1.77 sq. in.	10.78"	RD	**18Y548**
9 ton	6"	0.79 sq. in.	12.31"	RD	**18Y545**
9 ton	6"	1.77 sq. in.	13.78"	RD	**18Y549**
9 ton	10"	1.77 sq. in.	17.78"	RD	**18Y547**
16 ton	6"	3.14 sq. in.	15.31"	RD	**18Y540**
16 ton	10"	3.14 sq. in.	19.31"	RD	**18Y539**
25 ton	10"	4.91 sq. in.	20.69"	RD	**18Y541**
Lightweight					
20 ton	2"	4.83 sq. in.	6.85"	RAC	**23NN96**
20 ton	4"	4.83 sq. in.	8.82"	RAC	**23NN97**
20 ton	6"	4.83 sq. in.	10.79"	RAC	**23NN98**
30 ton	4"	6.85 sq. in.	9.09"	RAC	**4PU59**
30 ton	6"	6.85 sq. in.	11.06"	RAC	**4PU60**
50 ton	2"	10.99 sq. in.	7.92"	RAR	**23NP24**
50 ton	2"	10.99 sq. in.	7.32"	RAC	**23NN99**
50 ton	4"	10.99 sq. in.	9.89"	RAR	**23NP25**
50 ton	4"	10.99 sq. in.	9.29"	RAC	**4PU61**
100 ton	4"	22.19 sq. in.	11.86"	RAR	**23NP26**
50 ton	6"	10.99 sq. in.	11.26"	RAC	**4PU62**
100 ton	4"	22.19 sq. in.	11.86"	RAR	**23NP20**
100 ton	4"	22.19 sq. in.	10.67"	RAC	**23PC24**
100 ton	6"	22.19 sq. in.	13.83"	RAR	**23NP21**
100 ton	6"	22.19 sq. in.	12.64"	RAC	**4PU58**
100 ton	8"	22.19 sq. in.	15.80"	RAR	**23NP22**
100 ton	8"	22.19 sq. in.	14.61"	RAC	**23NN94**
150 ton	6"	35.19 sq. in.	13.71"	RAR	**23NP23**
150 ton	6"	35.18 sq. in.	13.49"	RAC	**23NN95**
Low Profile					
5 ton	1/4"	0.99 sq. in.	1.28"	RSM	**6Z782**
5 ton	1"	—	2.20"	—	**3CFK7**
10 ton	3/8"	2.24 sq. in.	1.69"	RSM	**3KD55**
10 ton	1"	2.15 sq. in.	1.08"	CULP	**55PT75**
10 ton	1"	2.15 sq. in.	1.40"	CUSP	**55PT80**
10 ton	1 1/2"	2.36 sq. in.	3.48"	HL	**13X029**
20 ton	3/8"	4.43 sq. in.	2.03"	RSM	**3KD56**
20 ton	1"	4.38 sq. in.	1.26"	CULP	**55PT77**
20 ton	1"	4.39 sq. in.	1.59"	CUSP	**55PT83**
20 ton	1"	23.85 sq. in.	2.50"	CUSP	**55PT81**
30 ton	1/2"	6.49 sq. in.	2.31"	RSM	**6W466**
30 ton	1"	6.85 sq. in.	1.38"	CULP	**55PT78**
30 ton	1"	6.85 sq. in.	1.67"	CUSP	**55PT85**
50 ton	5/8"	9.62 sq. in.	2.63"	RSM	**6W467**
50 ton	1"	12.17 sq. in.	1.75"	CULP	**55PT79**
50 ton	1"	12.17 sq. in.	2.24"	CUSP	**55PT86**
75 ton	5/8"	15.9 sq. in.	3.13"	RSM	**5ZL57**
75 ton	1"	17.53 sq. in.	2.38"	CUSP	**55PT87**
100 ton	5/8"	19.63 sq. in.	3.38"	RSM	**5ZL56**
100 ton	1"	23.85 sq. in.	2.55"	CULP	**55PT76**
150 ton	5/8"	30.68 sq. in.	3.94"	RSM	**18Y550**
150 ton	5/8"	30.68 sq. in.	3.94"	RSM	**18Y550**
150 ton	1"	35.19 sq. in.	2.56"	CUSP	**55PT82**
200 ton	1"	46.28 sq. in.	2.72"	CUSP	**55PT84**
200 ton	2"	43.95 sq. in.	6.10"	LPL	**55PP51**
250 ton	2"	56.27 sq. in.	6.24"	LPL	**55PP52**
400 ton	2"	88.75 sq. in.	7.01"	LPL	**55PP53**
500 ton	2"	113.25 sq. in.	7.56"	LPL	**55PP54**
Low Profile Hand Jack					
5 ton	1/4"	—	1.61"	—	**3CFK6**
10 ton	1/2"	—	2.09"	—	**3CFK8**
20 ton	1/2"	—	2.40"	—	**3CFL1**

Premium Hydraulic Oil

ENERPAC

Formulated specifically for use with Enerpac® pumps. Antisludge, antirust, antifoam additives included.

Power Pump Oil—High viscosity index. Blue color.

Hand Pump Oil—Medium viscosity index. Not for use in power pumps. Yellow color.



No. 2RV21

Container Size	Viscosity Index	Flash Point	Pour Point	Mfr. Model	Item No.
Power Pump Oil					
1 qt.				HF-100	**3KD75**
1 gal.	100	400°C	-45°F	HF-101	**3KD76**
55 gal.				HF104	**18Y531**
Hand Pump Oil					
1 gal.	105	375°F	-45°F	LX101	**2RV21**

Lifting Sets

ENERPAC

Include a hydraulic hand pump, and a selection of cylinders that have different stroke lengths.



No. 2RV22

Cylinder Nominal Capacity	Cylinder Stroke	Pump Model Number	Accessory Model Number	Item No.
5 ton	5/8 to 5"	6W461 (Mfr. No. P142)	Mfr. No. P-142, 6BU60 (Mfr. No. HC7206), HF-100, G2535L, GA-3, WR-5, RC-50, RC-51, RC-55	**2RV22**
10 ton	5/8 to 6"	6W462 (Mfr. No. P-392)	Mfr. No. P-392, 6BU60 (Mfr. No. HC7206), HF-100, G2535L, GA-3, C604 , JB10, WR-5, RSM-100, RCS-101, RC-106, RCH-123	**2RV23**
25 ton	5/8 to 6"	3KD31 (Mfr. No. P-802)	Mfr. No. P-802, 6BU60 (Mfr. No. HC7206), HF-101 , G2535L, GA-3, C604, WR-5, RSM-300, RCS-302, RC-256, RCH-302	**2RV24**

Hydraulic Ram & Pump Sets

ENERPAC

Hydraulic rams support heavier loads at higher psi ratings than standard hydraulic cylinders. The manually operated hand pump is portable and can be brought to the workpiece.

Standard Ram & Pump Sets—Standard rams and pump sets are used in general purpose applications for one-direction lifting and supporting. The manually operated pump attaches to the ram to lift and support heavy loads. These single-acting cylinders are spring-loaded and return the load when pressure is released.

Low Height Ram & Pump Sets—Low-height ram and pump sets include a low-profile hydraulic ram, a manually operated pump, and other accessories needed to lift and support heavy items in tight spaces. Low-profile rams have a smaller range than standard rams. Hydraulic rams support higher psi than standard hydraulic cylinders.

Hollow Ram & Pump Sets—Hollow ram and pump sets have a ram with a hollow plunger and piston rod that can be used with a threaded rod for pushing, pulling, tensioning, and testing applications. The rod is threaded through the piston and threaded into or through the workpiece to pull it out or push it into place. The manually operated pump is portable for bringing to the workpiece.



No. 5ZL59



No. 4YDY8

Cylinder Nominal Capacity	Cylinder Stroke	Cylinder Retracted Height	Pump Model Number	Cylinder Model Number	Item No.
Standard Ram & Pump Sets					
10 ton	2 1/8"	4.78"	6W462 (Mfr. No. P392)	4Z485 (Mfr. No. RC102)	**5ZL59**
10 ton	6 1/8"	9.75"	6W462 (Mfr. No. P392)	4Z486 (Mfr. No. RC106)	**5ZL60**
10 ton	10 1/8"	13.75"	6W462 (Mfr. No. P392)	4Z487 (Mfr. No. RC1010)	**5ZL58**
25 ton	4"	8.50"	6W462 (Mfr. No. P392)	3KD46 (Mfr. No. RC254)	**5ZL62**
25 ton	6 1/4"	10.75"	6W462 (Mfr. No. P392)	4Z488 (Mfr. No. RC256)	**5ZL64**
50 ton	6 1/4"	11.13"	4Z481 (Mfr. No. P80)	4Z489 (Mfr. No. RC506)	**5ZL65**
Low Height Ram & Pump Sets					
10 ton	1 1/2"	3.88"	6W462 (Mfr. No. P392)	6Z066 (Mfr. No. RCS101)	**4YDY8**
20 ton	1 3/4"	3.88"	6W462 (Mfr. No. P392)	6Z067 (Mfr. No. RCS201)	**4YDY9**
30 ton	2 3/8"	4.63"	6W462 (Mfr. No. P392)	6Z068 (Mfr. No. RCS302)	**4YDZ1**
50 ton	2 1/4"	4.81"	6W462 (Mfr. No. P392)	6Z272 (Mfr. No. RCS502)	**4YDZ2**
Hollow Ram & Pump Sets					
12 ton	1 3/8"	4.75"	6W141 (Mfr. No. P142)	6Z269 (Mfr. No. RCH121)	**3PCY5**
20 ton	2"	6.31"	6W462 (Mfr. No. P392)	6Z270 (Mfr. No. RCH202)	**3PCY6**
30 ton	2 1/2"	7.03"	6W462 (Mfr. No. P392)	6Z271 (Mfr. No. RCH302)	**3PCY7**
60 ton	3"	9.75"	6W462 (Mfr. No. P392)	5ZL54 (Mfr. No. RCH603)	**3PCY8**

ENERPAC

Workholding Hydraulic Rams



Have a high cylinder force to position and securely clamp parts in high-volume applications where tight tolerances are critical.

SOLID PLUNGER

Block-body hydraulic cylinders are single-acting, which means they provide movement in one direction and have an internal spring that returns the cylinder to its starting position. Long stroke length allows use in tight spaces such as in welding applications.

HOLLOW PLUNGER

Block-body hydraulic cylinders support loads from both ends, allowing for push and pull operations that can utilize full cylinder capacity. They have a threaded collar and base mounting holes to provide a variety of mounting options, including T-slot, tabletop, and surface mounting. Single-acting cylinders are spring-loaded to ease unloading.

Nominal Capacity	Nominal Stroke Length	Center Hole Dia.	Retracted Height	Series	Item No.
Solid Plunger					
5 ton	5/8"	1"	1.63"	RW	**5UXA1**
5 ton	1"	1"	4.34"	RW	**5UXA2**
5 ton	3"	1"	6.50"	RW	**5UXA3**
5 ton	5"	1"	8.50"	RW	**5UXA4**
10 ton	7/8"	1 1/2"	3.53"	RW	**5UWZ8**
10 ton	2"	1 1/2"	4.78"	RW	**23NP44**
10 ton	4"	1 1/2"	6.75"	RW	**5UWZ9**
10 ton	6"	1 1/2"	9.75"	RW	**5UXA0**
Hollow Plunger					
2 ton	5/16"	0.50"	2.06"	RWH	**23NP47**
6 ton	5/16"	0.77"	2.19"	RWH	**23NP45**
6 ton	1"	0.77"	3.19"	RWH	**23NP46**
18 ton	1"	1.31"	5.12"	RWH	**23NP48**

ENERPAC

Heavy-Duty Hydraulic Pullers



- Max. pressure: 10,000 psi

Speed crank and mechanical adjusting screw allow fast contact to work before hydraulics are applied. Made of forged steel components.

Master Puller Sets—Come complete with composite hand pump, single-acting hollow cylinder, 6-ft. hose, gauge, gauge adapter, and 4 puller styles (grip, cross bearing, bearing cup, and bearing puller). Pump and hollow ram provide precise hydraulic control and help ensure safe, efficient pulling. No. 2RV25 includes metal case. Nos. 2RV26 and 2RV28 include saddle and wood case.

Grip Pullers—Handle large components such as bearings and drive gears. Allow a person to handle the entire job and have a safety cage jaw retention system. Sets include 10,000 psi cylinder, flat and tempered ram point sets, and lift plate with mounting screws.

Note: Grip pullers do not include hydraulic pump, hose, or gauge.

No. of Pieces	Tonnage Capacity	Stroke Length	Mfr. Model	Item No.
Master Puller Sets				
10	8 Ton	1"	BHP1752	**2RV25**
11	20 Ton	2"	BHP2751G	**2RV26**
	30 Ton	2 1/2"	BHP3751G	**2RV28**

No. of Pieces	Tonnage Capacity	Stroke Length	Jaw Spread	No. of Jaws	Mfr. Model	Item No.
Grip Pullers						
9	10 Ton	6"	3/4 to 12"	2	EPHR208	**1MTF5**
	15 Ton	10"	1 to 15"	2	EPHR210	**1MTF6**
11	25 Ton	14 1/4"	2 1/2 to 18"	2	EPHR213	**1MTF7**
10	10 Ton	6"	3/4 to 12"	3	EPHR108	**1MTF8**
	15 Ton	10"	1 to 15"	3	EPHR110	**1MTF9**
12	25 Ton	14 1/4"	2 1/2 to 18"	3	EPHR113	**1MTG1**

Hydraulic Ram Spreaders

ENERPAC



- Max. pressure: 10,000 psi

RAM SPREADERS

General purpose ram spreaders attach to a hydraulic pump to spread crushed parts, open stuck doors, or separate parts in automotive and industrial applications.

LIFTING WEDGE RAMS

Have one flat side and a stepped wedge on the opposite side for use in lifting items off the ground. The item is lifted in stages and cribbed (or supported) while the wedge is moved to the next step to lift the item higher.

FLANGE RAM SPREADERS

Used to separate pipe flanges in industrial pipe maintenance operations. The ram is placed between the flanges and the pipes are spread as the jaws of the spreader open.

LIFT WEDGE RAM AND PUMP SETS

Include items to perform basic lifting of low-clearance items. Lift-wedge rams have a jaw with a flat side for resting on the ground and a stepped wedge side that allows items to be lifted off the ground in stages. The lifted item is cribbed, or supported, between lifting steps. Sets include a lift-wedge hydraulic ram, pump, and other accessories.

Nominal Capacity	Tip Clearance	Spread Width	Oil Cap.	Item No.
Ram Spreaders				
0.75 ton	1.26 in	11.5 in	3.91 cu in	**3KD93**
1 ton	0.5 in	3.7 in	0.61 cu in	**3KD94**
Lifting Wedge Rams				
16 ton	0.39 in	0.83 in	4.75 cu in	**3PCW2**
Flange Ram Spreaders				
10 ton		8.5 in	4.8 cu in	**3PCV6**
14 ton	0.24 in	3.16 in	4.76 cu in	**4PU56**
Lift Wedge Ram & Pump Sets				
8 ton	0.19 in	4.0 in	—	**55PV80**
16 ton	0.38 in	2.72 in	—	**55PV81**
16 ton	0.39 in	2.02 in	4.75 cu in	**25TV43**
24 ton	0.25 in	4.1 in	—	**55PV79**
24 ton	0.25 in	4.1 in	—	**55PV78**

ENERPAC

Hydraulic Nut Splitters



- Max. pressure: 10,000 psi

Nut splitters are used to break apart corroded or frozen nuts to free the bolt. Attach the nut splitter to a hydraulic pump to cut the nut off the bolt. Replacement blades sold separately, go to Grainger.com® and search for nut cutter blades.

Bolt Range	Hex Size Range	Nominal Capacity	Oil Cap.	Weight	Item No.
1/2" to 5/8"	3/4" to 1 5/16"	10 ton	1.22 cu. in.	4.4 lb.	**3PCW3**
5/8" to 7/8"	1 5/16" to 1 1/8"	15 ton	3.66 cu. in.	6.6 lb.	**3PCW4**
7/8" to 1 1/8"	1 1/8" to 1 9/16"	20 ton	4.88 cu. in.	9.7 lb.	**3PCW5**
1 1/8" to 1 3/8"	1 9/16" to 2"	35 ton	9.46 cu. in.	18.0 lb.	**3PCW6**
1 3/8" to 1 1/2"	2" to 2 1/4"	50 ton	14.64 cu. in.	26.0 lb.	**3PCW7**
1 1/2" to 1 7/8"	2 3/8" to 2 7/8"	90 ton	30.00 cu. in.	75.1 lb.	**3PCW8**

ENERPAC

Hydraulic Pipe Bender Set



- Max. pressure: 10,000 psi

Accurately makes smooth, wrinkle-free bends up to 90°. Schedule 40-160 rigid pipe. Includes composite hand pump; 10-ton, 10" stroke cylinder; 6-ft. 10,000 psi hose; 6 lightweight, heat-treated aluminum bending shoes; 2 pivot shoes; 2 pivot pins; shoe lock pin; bending frame; cylinder saddle; and angle indicator. Comes in lockable steel storage case.

Size Range (in.)	Bend Radius (in.)	Mfr. Model	Item No.
1/2 to 2	2 7/8 to 8 5/16	STB101H	**2RV32**

Heavy-Duty Hydraulic Maintenance Sets

ENERPAC



- Max. pressure: 5000 psi

General purpose maintenance sets are used for performing basic maintenance tasks around a facility or worksite, including lifting, bending, and straightening. These sets include a hydraulic cylinder, hand pump, and other compatible attachments.

Note: When cylinders are used with maintenance set attachments, the maximum system pressure must be limited to half the rated pressure (5000 psi). Capacity of cylinders limited to half of rated capacity.

Cylinder Nominal Capacity	Cylinder Stroke	Pump Model Number	Cylinder Model Number	Accessory Model Number	Mfr. Model	Item No.
5 ton	5"	6W461 (Mfr. No. P142)	4Z484 (Mfr. No. RC-55)	Mfr. No. P-142, 6BU60 (Mfr. No. HC7206), RC-55, GP-10S, GA-4,	MS2-4	**5ZL43**
5 ton to 13 ton	6 1/4"	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC-256)	Mfr. No. P-392, 6BU60 (Mfr. No. HC7206), GP-10S, GA-2, RC-102, RC-106, RC-256	MS21020	**2NWJ3**
10 ton	6 1/8"	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	Mfr. No. P-392, 6BU60 (Mfr. No. HC7206), RC-106, GP-10S, GA-2	MS2-10	**3KD70**
10 ton	6 1/8"	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	Mfr. No. WR-5, RC-106, P-392, MZ1052, MZ1005, MZ1004, MZ1003, MZ1002, MZ1050, 6BU60 (Mfr. No. HC7206), GA-3, A6, A21, A20, A18, A15, A14, A13, A129, A128, A10, A16	MSFP10	**25TV41**
25 ton	6 1/4"	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC256)	Mfr. No. P-392, 6BU60 (Mfr. No. HC7206), RC-256, GP-10S, GA-2	MS2-20	**5ZL42**



No. 4YDT3



No. 14A076



No. 2RV30



No. 3KD80

Heavy-Duty Industrial Hydraulic Press Sets and Accessories

ENERPAC

Arbor Presses—Foot mounting holes allow vertical or horizontal positioning. Slotted back simplifies loading and unloading of longer parts. Order pump and cylinder separately.

C-Clamp Presses—Nos. 18Y517 and 18Y518 are operational in all positions and include foot mounting holes for vertical or horizontal positioning.

Bench Press—Use where there is limited space, for quick press access, or for smaller parts. Includes 6-ft. thermoplastic hose. Cylinder mounting adapter allows lateral positioning along rails. Ships with predrilled mounting holes.

H-Frame Presses—Feature welded H-frame for longer life. Each includes heavy-duty steel pump mounting bracket, 10,000-psi pump, cylinder, hose, gauge, and gauge adapter. Nos. 3KD82 and 3KD81 feature 10-ft. control pendant; roller head design allows side-to-side movement and cylinder locking. Presses with over 10-ton capacity are equipped with an exclusive Hydra-Lift™ bed for adjustment.

Frame Cap. (tons)	Total Height (in.)	Working Height (in.)	Total Width (in.)	Working Width	Mfr. Model	Item No.
Arbor Presses (Pump & Cylinder sold separately)						
10 tons	16 5/16	8.94	5.31	2.00	A310	**4YDT3**
30 tons	21 15/16	10.25	7.00	2.00	A330	**4YDT4**
C-Clamp Presses (Pump & Cylinder sold separately)						
5 tons	11 29/64"	6½"	8"	2.00	A205	**14A076**
10 tons	16	9"	3¼"	3¼"	A210	**18Y517**
20 tons	21¼"	11 7/8"	—	3¾"	A220	**18Y518**

Frame Capacity	Pump Type	Pump	Cylinder	Cylinder Stroke	Cylinder Type	Total Height	Working Height	Total Width	Working Width	Mfr. Model	Item No.
Bench Press											
10 tons	Air	Mfr. No. PA-133	Mfr. No. RC-1010	10"	Single Action	25.63"	15⅜"	18⅜"	15"	IPA-1022	**2RV30**
H-Frame Presses											
10 tons	Air	Mfr. No. XA-11	Mfr. No. RC-1010	10"	Single Action	52"	40"	25"	18½"	IPA-1220	**3KD79**
10 tons	Manual	Mfr. No. P-392	Mfr. No. RC-1010	10"	Single Action	52"	40"	25"	18½"	IPH-1240	**3KD83**
10 tons	Electric	Mfr. No. PEM-1201B	Mfr. No. RC-1010	10¼"	Single Action	52"	52"	30"	30"	IPE1215	**25TU61**
25 tons	Air	Mfr. No. XA-12	Mfr. No. RC-2514	14"	Single Action	76"	7 to 54½"	40½"	29"	IPA-2520	**3KD80**
25 tons	Manual	Mfr. No. P-80	Mfr. No. RC-2514	14"	Single Action	76"	7 to 54½"	40½"	29"	IPH-2531	**3KD84**
50 tons	Electric	Mfr. No. ZE4420SB-N/ZE4420SG-N	Mfr. No. RR-5013	13"	Double Action	76"	7 to 48½"	42¾"	28¾"	IPE-5060	**3KD82**
100 tons	Electric	Mfr. No. ZE4420SB-N	Mfr. No. RR-10013	13"	Double Action	76"	7 to 42½"	51"	35"	IPE-10060	**3KD81**
150 tons	Electric	Mfr. No. ZE5420SG-N	Mfr. No. RR-15013	13¼"	Double Action	90"	90"	70½"	67-8/47"	IPE15065	**25TU62**

ENERPAC

Gauges and Gauge Adapters

- Max. pressure: 10,000 psi, except No. 46C578 is 15,000 psi

Use with all cylinders and presses. Stainless steel cases resist corrosion. Gauge snubbers or needle valves recommended for high-cycle applications.


No. 3KD57

Gauge Range	Dial Size	Req. Enerpac® Gauge Adapter	Filled With	Accuracy	Connection Size	Connection Location	Mfr. Model	Item No.
DGR Series, Digital Hydraulic Gauge								
0 to 20,000 psi	2¾"	—	—	—	¼"	Bottom	DGR2	**22NV68**
GF Series, Hydraulic Force and Pressure Gauges								
0 to 10,000 psi	4"	GA-1, GA-2 OR GA-4	Glycerin	±1.00%	½"	Bottom	GF10P	**46C573**
	4"	GA-1, GA-2 OR GA-4	Glycerin	±1.00%	½"	Bottom	GF20P	**46C574**
	4"	GA-1, GA-2 OR GA-4	Glycerin	±1.00%	½"	Bottom	GF50P	**46C575**
	4"	GA-1, GA-2 OR GA-4	Glycerin	±1.00%	½"	Bottom	GF510P	**46C576**
	4"	GA-1, GA-2 OR GA-4	Glycerin	±1.00%	½"	Bottom	GF813P	**46C577**
GP Series, Hydraulic Force and Pressure Gauges								
0 to 10,000 psi	4"	GA-2	—	±1.00%	½"	Bottom	GP-10S	**3KD63**
0 to 15,000 psi	4"	GA-1, GA-2 OR GA-4	—	±1.00%	½"	Bottom	GP15S	**46C578**
G Series, High Pressure Gauges								
0 to 300 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2512L	**46C564**
0 to 600 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2513L	**46C565**
0 to 1000 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2514L	**46C566**
	2½"	GA-3	Glycerin	±1.50%	¼"	Center Back	G2531R	**46C569**
0 to 3000 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2516L	**46C567**
0 to 6000 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2517L	**46C568**
	2½"	GA-3	Glycerin	±1.50%	¼"	Center Back	G2534R	**46C570**
0 to 10,000 psi	2½"	GA-3	Glycerin	±1.50%	¼"	Bottom	G2535L	**3KD57**
	2½"	GA-3	Glycerin	±1.50%	¼"	Center Back	G2537R	**46C571**
	4"	GA-3	Glycerin	±1.00%	¼"	Bottom	G4088L	**3KD59**
	4"	GA-2	Glycerin	±1.00%	½"	Bottom	G4039L	**5ZL41**
0 to 15,000 psi	2½"	—	Glycerin	±1.50%	¼"	Bottom	G2536L	**18Y527**
	4"	—	Glycerin	±1.00%	¼"	Bottom	G4089L	**18Y528**
T Series, Test System Gauges								
0 to 10,000 psi	6½"	—	—	±0.50%	½"	Bottom	T6003L	**18Y551**
0 to 40,000 psi	6½"	—	—	±1.50%	¼"	Bottom	T6010L	**18Y552**

Gauge Port (F)NPT (in.)	(M)NPT Fitting (in.)	(F)NPT Fitting (in.)	L (in.)	Mfr. Model	Item No.
Gauge Adapters					
¼	⅜	⅜	5.25	GA-3	**3KD39**
½	¼	⅜	4.38	GA-4	**3KD40**
½	⅜	⅜	2 13/16	GA1	**46C572**
½	⅜	⅜	6.10	GA-2	**3KD38**


No. 4PU64

ENERPAC

35-Ton Hydraulic Punch and Punch and Die Sets

Note: Material thickness should not exceed hole diameter.

35-Ton Hydraulic Punch—
Designed to punch burr-free holes in mild steel up to ½" thick. Includes bench-mount bracket, metal storage case, die changeover tools, and ⅜" coupler. Works with hand-, air-, and electric-powered hydraulic pumps.

- Spring return cylinder

Punch-and-Die Kits—
Include punch and 4 die sets that produce round holes sized 0.44", 0.56", 0.69", and 0.81" in diameter. Once punched, these holes will accommodate standard bolts sized ⅜", ½", ⅝", and ¾".

Description	Mfr. Model	Item No.
35-ton Hydraulic Punch	SP-35	**3KD34**
Punch and Die Kit	SP-35S	**4PU64**
Punch and Die Kit with Electric Pump and Hose	SP35SP	**25TV51**

Std. Hole Size (in.)	Std. Bolt Size (in.)	Characteristics	Mfr. Model	Item No.
Punch and Die Sets				
0.31	¼	Circle Hole	SPD-313	**3KD85**
0.38	5/16	Circle Hole	SPD-375	**3KD86**
0.38	5/16	Square Hole	SPD549	**46C550**
0.44	⅜	Circle Hole	SPD-438	**3KD87**
0.44	⅜	Square Hole	SPD639	**46C551**
0.44 x 0.75	⅜	Oval Hole	SPD188	**46C548**
0.50 x 0.75	7/16	Oval Hole	SPD250	**46C549**
0.53	7/16	Circle Hole	SPD-531	**3KD88**
0.56	½	Circle Hole	SPD-563	**3KD89**
0.69	⅝	Circle Hole	SPD-688	**3KD90**
0.78	—	Circle Hole	SPD-781	**3KD91**
0.81	¾	Circle Hole	SPD-813	**3KD92**


No. 6W468


No. 6W469


No. 1MTG2


No. 3PCU6

ENERPAC

Needle and Check Valves

Needle Valve—Controls cylinder speed. Can be used as a shutoff valve for temporary load holding.

Manually Operated Check Valve—Improves safety in load-holding applications. When closed, oil is allowed into cylinder but not back to pump.

Pressure Relief Valve—Add to a 10,000 psi pump or to a hydraulic system to limit system pressure. Opens when preset pressure is reached. Repeatability: ±3%. Includes 3-ft. line hose kit.

Hydraulic Split Flow Valve—Allows a single pump to independently operate 2 cylinders. Steel construction.

Item	Inlet Port Size	Port Size	Outlet Port Size	Pressure Range (psi)	Mfr. Model	Item No.
Needle Valve	⅜" NPT	⅜ NPT	⅜" NPT	—	V-82	**6W468**
Manually Operated Check Valve	⅜" NPT	⅜ NPT	⅜" NPT	—	V-66	**6W469**
Pressure Relief Valve	—	⅜" NPT	—	800 to 10,000	V152	**1MTG2**
Hydraulic Split Flow Valve	—	⅜" NPT	—	0 to 10,000	AM21	**3PCU6**

QUICKLY ORDER
Items From This Catalog With Your Mobile Device

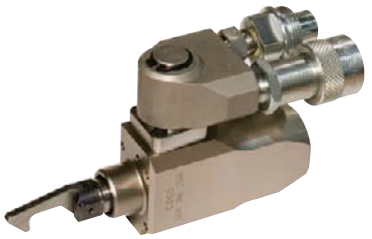
Scan. Order. Done.

- Scan the Item Number
- See Your Price
- Place Your Order. Done





Square-Drive Torque
No. 38XV31



Low-Profile Hexagon Cassette Torque
No. 38XV32

ENERPAC

Hydraulic Torque Wrench Drivers

- Max. pressure: 10,000 psi
- Nickel-plated steel construction

All X-Series tools are CE-ATEX declared and ship with calibration certificate. Constant torque provides accuracy of +/- 3% across full stroke. Robust positioning handles have multiple mounting options, promoting safer usage of tool, even in hard to reach applications. Wrenches include carrying case. Drive units are compatible with W-Series, Ultra-Slim and WCR-Series cassettes.

X-SERIES SQUARE-DRIVE

Lightweight and ergonomic with easy operation reaction arm and push-button drive release. Feature extra durable manifold that provides added safety for user. Reaction arm has large lever that makes it easy to operate. This wrench design provides a small operating radius without sacrificing the endurance of the tool.

X-SERIES LOW-PROFILE HEXAGON

Ultra-slim, compact tool offers superior strength to size ratio, providing easy access with greater durability. Feature fast release drive that enables rapid exchange of cassettes without the use of tools for quick change-out. For Cassettes, go to Grainger.com® and search by "Hydraulic Torque Wrench Cassettes". Cassettes not included.

Square Drive Size (in.)	Socket Size Range (in.)	Max. Torque (ft.-lb.)	Overall W (in.)	Overall H (in.)	Weight (lb.)	Mfr. Model	Item No.
X Series, Square-Drive Torque Wrenches							
¾	¾ to 2	1440	1.54	3.82	7.0	S1500X	**38XV34**
1	¾ to 3⅞	3225	1.89	3.54	12.3	S3000X	**38XV40**
1½	1 7/16 to 4⅝	6150	2.17	6.18	20.2	S6000X	**38XV39**
1½	1 7/16 to 4⅝	11,175	2.83	7.48	34.7	S11000X	**38XV36**
2½	2 7/16 to 6⅛	25,150	3.5	9.61	70.8	S25000X	**38XV31**

Hex Size Range (in.)	Max. Torque (ft.-lb.)	Overall L (in.)	Overall W (in.)	Overall H (in.)	Weight (lb.)	Mfr. Model	Item No.
X Series, Low-Profile Hexagon Cassette Torque Wrenches							
1 1/16 to 2⅜	2040	6.77	1.26	5.23	2.9	W2000X	**38XV38**
1 5/16 to 3⅜	4175	8.30	1.61	6.64	4.2	W4000X	**38XV32**
1⅞ to 4⅛	8470	9.84	2.07	8.42	6.8	W8000X	**38XV41**
2 7/16 to 4⅝	15,370	11.93	2.48	10.12	11	W15000X	**38XV35**

For Use With	Hose Ends	Mfr. Model	Item No.
Twin Hydraulic Hose Assembly			
S and W Series Enerpac Torque Wrenches	¼ Male x ¼" Female Quick-Coupler	THQ706T	**3PCZ2**



No. 3PDC6
Air Pump

ENERPAC

Torque Wrench Pumps

- Max. pressure: 10,000 psi
- ¼" fluid port
- 85 to 90dBA

AIR PUMP

- ½" air inlet

2-speed operation. Equipped with 2 internal relief valves, 1 factory preset for overload protection and 1 user-adjustable for setting max. system pressure. With pressure gauge, filter/regulator/lubricator, sight gauge, roll cage, and oil drain. Air-operated valve included in pendant.

ELECTRIC PUMPS

- 115VAC
- 24VDC control pendant

No. 30P879 is a powerful 2-speed pump that features built-in gauge, relief valve, adjustable pressure relief valve for accurate torque adjustments, and gives precise repeatability. No. 3PDC8 includes On/Off toggle, pendant with electro-mechanical push-buttons, and 24V transformer timer and circuit breaker. No. 3PDC9 has a multilingual digital LCD; tracks maintenance cycle, shows current pressure, cycle count, low-voltage warning, and troubleshooting/diagnosis. Autocycle feature allows continuous torque wrench cycle operation.

Oil Capacity (cu.-in.)	Reservoir Capacity (gal.)	Displacement @ 0 psi	Displacement @ 10,000 psi	Operating Air psi	Air Consumption (scfm)	Mfr. Model	Item No.
Air Pump							
231.00	1	600.00 cu. in./min.	60 cu. in./min.	60 to 100	20 to 100	ZA4204TX-Q	**3PDC6**

Reservoir Capacity (cu.-in.)	Reservoir Capacity (gal.)	Oil Displacement (cu.-in./min.) @ 100 psi	Oil Displacement (cu.-in./min.) @ 700 psi	Oil Displacement (cu.-in./min.) @ 10,000 psi	HP	Mfr. Model	Item No.
Electric Pumps							
—	0.75	—	—	20 cu. in./min.	—	PMU10427Q	**30P879**
231	1	700 cu. in./min.	535 cu. in./min.	60 cu. in./min.	1.7	ZU4204BB-Q	**3PDC8**
231	1	700 cu. in./min.	535 cu. in./min.	60 cu. in./min.	1.7	ZU4204TB-Q	**3PDC9**



No. 4DDL5

EATON

5- to 30-Gal. AC Power Units

- 230/460VAC, 3 Phase

Deliver units deliver smooth, quiet operation, and feature close coupled pump and motor, adjustable relief valve, pressure gauge, filler breather, and lift-out cover for easy maintenance.

Reservoir Cap.	HP	Nominal Flow	Max. Pressure	Pressure Port	Full Load Amps	RPM	Manifold Block	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Vertical												
5 gal.	3	1.5 gpm	2500 psi	¾"-16 (SAE 8)	8.2/4.1	1800	D03	18"	10"	30"	6764761	**4DDN4**
10 gal.	3	3 gpm	1470 psi	¾"-16 (SAE 8)	8.2/4.1	1800	D03	21"	14"	28"	6764776	**4DDL5**
	3	4.5 gpm	980 psi	¾"-16 (SAE 8)	8.2/4.1	1800	D03	21"	14"	28"	6042869-001	**4DDL6**
	5	3 gpm	2450 psi	¾"-16 (SAE 8)	14.6/7.3	1800	D03	21"	14"	29"	3044143	**4DDL7**
	5	4.5 gpm	1630 psi	¾"-16 (SAE 8)	14.6/7.3	1800	D03	21"	14"	29"	4995505	**4DDL8**
Horizontal												
20 gal.	7.5	7.5 gpm	1470 psi	1 1/16"-12 (SAE 12)	21.0/10.5	1800	—	27"	18"	25"	4995555	**4DDL9**
	10	7.5 gpm	1960 psi	1 1/16"-12 (SAE 12)	28.4/14.2	1800	—	27"	18"	25"	4995625	**4DDN1**
30 gal.	10	10 gpm	1470 psi	1 1/16"-12 (SAE 12)	28.4/14.2	1800	—	38"	24"	23"	3044402	**4DDN3**
	10	10.5 gpm	1400 psi	1 1/16"-12 (SAE 12)	28.4/14.2	1800	—	38"	24"	23"	4995633	**4DDN2**

1.6- to 30-Gal. AC Power Units

Recommended motor starters are sold separately on page 165.

1.6-GAL.

- Horizontal mounting

Feature an aluminum center adapter that also serves as a port manifold and valve housing with a load-holding check valve, and a VM01 cartridge relief valve. Pump housing has an anodized 70 Rockwell C aluminum oxide finish. Includes direct manifold mount.

5- AND 15-GAL.

- Fixed-clearance pumps (5-gal.)
- Pressure-balanced pumps (15-gal.)
- Vertical mounting for all models

Come fully assembled with filler breather, fluid level gauge with thermometer, pressure gauge, relief valve, and a manifold block for mounting a valve. Manifold is for direct pressure and tank (P&T) plumbing. Block comes with SAE ports only. Valve options and additional components are sold separately on page 2477.

8- TO 30-GAL.

BUCHER hydraulics
MONARCH Hydraulics, Inc.

Provide smooth, quiet, operation and feature an adjustable relief valve, bayonet-style filler breather, drain port, pressure gauge, SAE ports, sight/level/temp. gauge, and removable top plate to ease maintenance. Models 5 HP and larger have a premium-efficiency motor rated for 50 Hz and 60 Hz operation for overall system efficiency.



No. 36ND92



No. 36ND81

Reservoir Cap.	No. of Stages	HP	Nominal Flow	Max. Pressure	Pressure Port	Voltage	Phase	Recommended Motor Starter	Manifold Block	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Horizontal														
1.6 gal.	1	0.5	0.5 gpm	1500 psi	9/16"-18 (SAE 6)	115/230VAC	1	1H555	—	26 3/32"	10 29/32"	8 15/16"	M-4504-0158	**36ND91**
	1	1	0.5 gpm	3000 psi	9/16"-18 (SAE 6)	115/208-230VAC	1	1H555	—	27 3/32"	10 29/32"	8 15/16"	M-4504-0159	**36ND92**
	1	1	1.4 gpm	1000 psi	9/16"-18 (SAE 6)	115/208-230VAC	1	1H555	—	27 3/32"	10 29/32"	8 15/16"	M-4504-0161	**36ND94**
	1	1	1.9 gpm	750 psi	9/16"-18 (SAE 6)	115/208-230VAC	1	1H555	—	27 3/32"	10 29/32"	8 15/16"	M-4504-0162	**36ND95**
	1	1	1.9 gpm	750 psi	9/16"-18 (SAE 6)	230/460VAC	3	1H555	—	27 3/32"	9 3/32"	8 15/16"	M-4504-0164	**36ND97**
	1	1	1 gpm	1500 psi	9/16"-18 (SAE 6)	115/208-230VAC	1	1H555	—	27 3/32"	10 29/32"	8 15/16"	M-4504-0160	**36ND93**
	1	1	1 gpm	1500 psi	9/16"-18 (SAE 6)	230/460VAC	3	1H555	—	27 3/32"	9 3/32"	8 15/16"	M-4504-0163	**36ND96**
	1	2	2 gpm	1500 psi	9/16"-18 (SAE 6)	230/460VAC	3	1H555	—	27 3/32"	9 3/32"	8 15/16"	M-4504-0165	**36ND98**
	1	2	3.8 gpm	750 psi	9/16"-18 (SAE 6)	230/460VAC	3	1H555	—	27 3/32"	9 3/32"	8 15/16"	M-4504-0166	**36ND99**
20 gal.	1	7.5	7.5 gpm	1500 psi	1 1/16"-12 (SAE 12)	208-230/460VAC	3		—	27"	18"	28"	ZTJ000646	**38VP30**
	1	10	7.5 gpm	2000 psi	1 1/16"-12 (SAE 12)	208-230/460VAC	3		—	27"	18"	28"	ZTJ000647	**38VP31**
30 gal.	1	10	10.5 gpm	1400 psi	1 1/16"-12 (SAE 12)	208-230/460VAC	3		—	39"	18"	28"	ZTJ000649	**38VP33**
	1	10	10 gpm	1500 psi	1 1/16"-12 (SAE 12)	208-230/460VAC	3		—	39"	18"	28"	ZTJ000648	**38VP32**
Vertical														
5 gal.	1	1	1 gpm	1500 psi	9/16"-18 (SAE 6)	115/230VAC	1	1H555	D03	14"	12 1/4"	25 13/32"	M-4505-0150	**36NE02**
	1	2	1.4 gpm	2000 psi	9/16"-18 (SAE 6)	115/230VAC	1	1H555	D03	14"	12 1/4"	26 31/32"	M-4505-0151	**36NE03**
	1	2	1.9 gpm	1500 psi	9/16"-18 (SAE 6)	230/460VAC	3	1H555	D03	14"	12 1/4"	25 31/32"	M-4505-0152	**36NE04**
	1	2	1 gpm	3000 psi	9/16"-18 (SAE 6)	115/230VAC	1	1H555	D03	14"	12 1/4"	26 31/32"	M-4505-0149	**36NE01**
8 gal.	1	3	1.5 gpm	2500 psi	3/4"-16 (SAE 8)	208-230/460VAC	3		D03	20"	17"	30"	T1VA355C02F1-01	**38VP25**
15 gal.	1	3	3 gpm	1500 psi	3/4"-16 (SAE 8)	208-230/460VAC	3		D03	20"	17"	36	T2VC355C02F1-01	**38VP26**
	1	3	4.5 gpm	1000 psi	3/4"-16 (SAE 8)	208-230/460VAC	3		D03	20"	17"	36	T3VC355C02F1-01	**38VP27**
	1	3	6.9 gpm	600 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H412	D05	20"	17"	35"	T65C355A03B0-01	**36ND85**
	1	5	11 gpm	650 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D05	20"	17"	35"	T07C405C03B0-01	**36ND88**
	1	5	2.3 gpm	3000 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H412	D03	20"	17"	35"	T56C405R02S0-01	**36ND81**
	1	5	3.7 gpm	2000 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D03	20"	17"	35"	T58C405R02S0-01	**36ND82**
	1	5	3 gpm	2500 psi	3/4"-16 (SAE 8)	208-230/460VAC	3		D03	20"	17"	36	T2VC405C02F1-01	**38VP28**
	1	5	4.4 gpm	1550 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D03	20"	17"	35"	T16C405C02F0-03	**36ND83**
	1	5	4.5 gpm	1600 psi	3/4"-16 (SAE 8)	208-230/460VAC	3		D03	20"	17"	36	T3VC405C02F1-01	**38VP29**
	1	5	5 gpm	1400 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D03	20"	17"	35"	T64C405C02F0-01	**36ND84**
	1	5	6.9 gpm	1000 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D05	20"	17"	35"	T65C405C03B0-01	**36ND86**
	1	5	8.8 gpm	800 psi	3/4"-16 (SAE 8)	208-230/460VAC	3	1H417	D05	20"	17"	35"	T66C405C03B0-01	**36ND87**
	2	3	11.0/2.8 gpm	1500 psi	7/8"-14 (SAE 10)	208-230/460VAC	3	1H417	D05	20"	15"	35"	T92C355C93F0-01	**36ND89**
	2	5	11.0/2.8 gpm	2500 psi	7/8"-14 (SAE 10)	208-230/460VAC	3	1H417	D05	20"	15"	35"	T92C405C93F0-01	**36ND80**
	2	5	16.0/3.8 gpm	2000 psi	7/8"-14 (SAE 10)	208-230/460VAC	3	1H417	D05	20"	15"	35"	T94C405C93F0-01	**36ND90**

Power Unit Accessories

Reservoirs—Variable size for AC and DC power units.

Valve Manifold Kit—D03 manifold is for use with 1.6-gal. units (¼ NPT remote mount and direct mount options).

Electric Lowering Valve Kit Assemblies—Provide simple installation into Monarch power units. Good for use in raise-hold lower applications where increased efficiency and exact positioning of the cylinder needs to be provided. Consist of a differential poppet-type and has a 2-way/2-position normally closed valve.

Nom. Cap. (gal.)	Construc.	H (in.)	L (in.)	W (in.)	Mfr. Model	Item No.
Hydraulic Power Unit Reservoir						
1.0	Steel	6.0	9	6	500206406042	**45DV80**
1.75	Steel	6.0	13½	6	500206406072	**45DV83**
2.5	Plastic	6¾	20	6¾	500206414188	**45DV78**
4.0	Plastic	6¾	26	6¾	500206414170	**45DV85**
4.0	Plastic	10	18	9	500206414224	**45DV79**
4.5	Steel	10¼	10	10¼	500206414249	**45DV82**
2.9	Steel	6¼	15	7¼	500206406864	**45DV81**
2.9	Steel	6¼	15	7¼	500206406076	**45DV84**
Valve Manifold Kit						
¼" NPT, Remote Mounting					500204901762	**45DV86**
Electric Lowering Valve						
24VDC					500205524369	**45DV87**
110VAC					500205524370	**45DV88**

BUCHER hydraulics
MONARCH Hydraulics, Inc.



No. 45DV80

AC Hydraulic Power Unit for Auto Hoists

- 208/230V, single-phase, 18.5A
- Includes #12 AWG 3-wire, 18"L cord

Rugged power unit is for use in 2- and 4-post auto hoists with single-acting cylinders to raise, hold, and lower. High-torque AC motor is capable of starting up under load. Adjustable, high-efficiency VM01 relief valve and momentary push button start switch. Hardened steel valve parts are field serviceable.

BUCHER hydraulics
MONARCH Hydraulics, Inc.



Reservoir Cap.	HP	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
3.8 gal.	2.0	2 gpm	2400 psi	9/16"-18 (SAE 6)	38 3/16"	10 5/32"	12 3/16"	M-4509-0217	**36NE14**

DC Snowplow Power Unit

12VDC unit allows remote operation of a truck-mounted snowplow. Includes built-in crossover reliefs which help protect snowplow blades from damaging obstructions and a heavy-duty remote control station that operates the blade up/down and left/right when used with 1 single- and 1 double-acting cylinder. Adjustable relief is preset at 2500 psi for larger blades. Included 2-qt. nominal plastic reservoir. Horizontal mounting only.

BUCHER hydraulics
MONARCH Hydraulics, Inc.



Reservoir Cap.	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
0.5 gal.	2 gpm	3000 psi	¼"-18 NPT	22 3/8"	6 1/32"	9 21/32"	M-3593-0164	**36NE13**

12VDC Power Units with Control Station

BUCHER hydraulics / MONARCH Hydraulics, Inc. — MAXIM — CHIEF

MONARCH

Basic Power Unit—For remote requirements using special manifolds for control.

Manual Release—Designed for single-acting cylinders on lift, hold, and lower circuits. Features a multidirectional handle control. Includes a manual lowering valve.



No. 36NE07

Remote Release with Control Station—Controls lift and hold circuits; includes a solenoid lowering valve, and 10-ft. cord for start and lower functions on single-acting cylinders.

Birotational Power Unit with Control Station—For use with horizontally configured cylinders. Directional solenoid valves are not required for use in double-acting cylinder applications. Includes 10-ft. cord.

Remote Double-Acting Power Unit—2-position, 4-way solenoid valve allows bidirectional control of double-acting cylinders and hydraulic motor applications. Includes a pilot-operated check valve and relief valve.

Note: Go to Grainger.com® for Accessory Control Stations. Search for "Control Station for Power Unit".

MAXIM™

For Power Up and Power Down operations and has a check valve, preventing reverse flow and protect pump. No. 35LP42 is for load holding in 1 direction. Includes a relief valve and manual valve. No. 35LP41 lifts, holds, and lowers and is prewired with a quick-disconnect remote. Horizontal mounting.

CHIEF

Solenoid-operated unit is designed to lift, hold, and lower and comes with a wired remote control.

Description	Reservoir Cap.	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
Basic Power Unit	1 gal.	2.5 gpm	3000 psi	9/16"-18 (SAE 6)	18 3/8"	7 1/8"	7 1/2"	Monarch	M-3504-0239	**36NE08**
Manual Release	1 gal.	2.5 gpm	3000 psi	9/16"-18 (SAE 6)	18 3/8"	6 1 1/16"	7 15/32"	Monarch	M-3313-0106	**36NE05**
Remote Release with Control Station	1 gal.	2.5 gpm	3000 psi	9/16"-18 (SAE 6)	18 3/8"	7 1/2"	7 1/2"	Monarch	M-3519-0419	**36NE06**
Birotational Power Unit with Control Station	1 gal.	2 gpm	3000 psi	7/16"-20 (SAE 4)	18 1/32"	8 1 1/32"	7 13/32"	Monarch	B-3530-0104	**36NE07**
Double-Acting Power Unit	0.75 gal.	1.3 gpm	2500 psi	1/4" NPT	20 1/2"	9"	7 1/2"	Maxim	253109	**35LP42**
Remote Double-Acting Power Unit	1 gal.	2.5 gpm	3000 psi	1/4"-18 NPT	18 3/8"	8 1/8"	7 19/32"	Monarch	M-3554-0157	**36NE09**
Remote Double-Acting Power Unit	0.75 gal.	1.3 gpm	2500 psi	9/16"-18 (SAE 6)	22 3/8"	8 3/4"	8 1/4"	Chief	253100	**46C520**
Remote Double-Acting Power Unit	3 gal.	1.3 gpm	2500 psi	9/16"-18 (SAE 6)	23 1/4"	8 1/4"	9 3/4"	Maxim	253147	**35LP41**
Remote Single-Acting Power Unit	1.5 gal.	1.3 gpm	2500 psi	9/16"-18 (SAE 6)	22 1/4"	10"	8 3/4"	Chief	253119	**46C519**



No. 36NE10

Reservoir Cap.	Nominal Flow	Max. Pressure	Voltage	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Hydraulic Power Units with Remote Control Station									
0.6 gal.	2.5 gpm	3000 psi	12VDC	9/16"-18 (SAE 6)	16 3/8"	7 1/2"	7 1/2"	M-3519-0420	**36NE11**
0.6 gal.	3.4 gpm	3000 psi	24VDC	9/16"-18 (SAE 6)	16 3/8"	7 1/2"	7 1/2"	M-3519-0421	**36NE12**
DC Motor Pump Assembly									
—	2.5 gpm	3000 psi	12VDC	9/16"-18 (SAE 6)	10 29/32"	5 7/16"	7 9/16"	M-3326-0218	**36NE10**

DC Lift Truck Power Units and Motor Pump Assembly

BUCHER hydraulics / MONARCH Hydraulics, Inc.

- Valve pressure preset to 2500 psi

Nos. 36NE11 & 36NE12—Designed for single-acting cylinders on lift, hold, and lower circuits usually found on forklifts and other material handling equipment. Units include check, adjustable relief, and solenoid lowering valves. Horizontal or vertical mounting with a 45° elbow provided for vertical mounting.

No. 36NE10—Motor and pump unit includes check and relief valves. Vertical or horizontal mounting. Requires a remote reservoir.

Note: Does not include remote handset.

Char-Lynn®

General Purpose Motors/Rotary Actuators



No. 5PZF8

- Straight-keyed shafts
- Max. oil temp.: 180°F

H Series—Direct-drive motors are designed with spool valve technology for medium-duty applications. Include low-speed valving. Shaft speed and rotation direction can be controlled easily throughout the motors' entire speed range.

- Min. oil viscosity: 100 SUS
- Shaft size: 1" dia. x 1¾"L

S Series—Similar to H Series motors, but with precision-machined rollers to provide rolling contact support. Rollers further reduce friction for increased efficiency and extended motor life.

- Min. oil viscosity: 70 SUS
- Shaft size: 1" dia. x 1¾"L

Displacement (Cu. In./Rev.)	Max. RPM	Pressure Rating (psi)	2 BOLT, 3.25" PILOT MOUNTING Mfr. Model	2 BOLT, 3.25" PILOT MOUNTING Item No.	4 BOLT, 1.75" PILOT MOUNTING Mfr. Model	4 BOLT, 1.75" PILOT MOUNTING Item No.
H Series						
½-14 NPTF Port Thread						
2.8	969 rpm	2400	101-1025	**5PZG6**	101-1001	**5PZF8**
4.5	760 rpm	2400	101-1026	**5PZG7**	101-1002	**5PZF9**
5.9	585 rpm	2400	101-1027	**5PZG8**	—	—
7.3	469 rpm	2400	101-1706	**5PZH3**	101-1755	**5PZH5**
8.9	385 rpm	2300	101-1707	**5PZH4**	101-1756	**5PZH6**
9.7	353 rpm	2250	—	—	101-1004	**5PZG1**
11.3	304 rpm	2150	101-1029	**5PZG9**	—	—
14.1	243 rpm	2000	101-1030	**5PZH0**	101-1006	**5PZG4**
17.9	192 rpm	1800	101-1031	**5PZH1**	101-1007	**5PZG5**
22.6	152 rpm	1500	101-1032	**5PZH2**	101-1008	**5PZG3**
½-14 NPTH Port Thread						
5.9	585 rpm	2400	—	—	101-1003	**5PZG0**
11.3	304 rpm	2150	—	—	101-1005	**5PZG2**

Displacement (Cu. In./Rev.)	Max. RPM	Pressure Rating (psi)	2 BOLT, 3.25" PILOT MOUNTING Mfr. Model	2 BOLT, 3.25" PILOT MOUNTING Item No.	4 BOLT, 1.75" PILOT MOUNTING Mfr. Model	4 BOLT, 1.75" PILOT MOUNTING Item No.
⅞-14 UNF Port Thread						
2.2	1021 rpm	1800	101-1700	**4TY66**	101-1749	**4TY82**
2.8	969 rpm	1800	101-1033	**4TY67**	101-1009	**4TY83**
3.6	953 rpm	1800	101-1701	**4TY68**	101-1750	**4TY84**
4.5	760 rpm	1800	101-1034	**4TY69**	101-1010	**4TY85**
5.9	585 rpm	1800	101-1035	**4TY70**	101-1011	**4TY86**
7.3	469 rpm	1800	101-1702	**4TY71**	101-1751	**4TY87**
8.9	385 rpm	1700	101-1703	**4TY72**	101-1752	**4TY88**
9.7	353 rpm	1650	101-1036	**4TY73**	101-1012	**4TY89**
11.3	304 rpm	1600	101-1037	**4TY74**	101-1013	**4TY90**
14.1	243 rpm	1450	101-1038	**4TY75**	101-1014	**4TY91**
17.9	192 rpm	1350	101-1039	**4TY76**	101-1015	**4TY92**
22.6	152 rpm	1250	101-1040	**4TY77**	101-1016	**4TY93**
S Series						
½-14 NPTF Port Thread						
3.6	962 rpm	2500	103-1540	**5PZK1**	103-1573	**5PZK4**
4.6	762 rpm	2500	103-1026	**5PZJ4**	103-1002	**5PZH7**
5.7	585 rpm	2500	103-1027	**5PZJ5**	103-1003	**5PZH8**
7.3	470 rpm	2500	103-1541	**5PZK2**	103-1574	**5PZK5**
8.8	385 rpm	2350	103-1542	**5PZK3**	—	—
10.1	353 rpm	2300	103-1028	**5PZJ6**	103-1004	**5PZH9**
11.4	303 rpm	2250	103-1029	**5PZJ7**	103-1005	**5PZJ0**
13.7	243 rpm	2050	103-1030	**5PZJ8**	103-1006	**5PZJ1**
18.2	192 rpm	1800	103-1031	**5PZJ9**	103-1007	**5PZJ2**
22.7	153 rpm	1500	103-1032	**5PZK0**	—	—
½-14 NPTH Port Thread						
22.7	153 rpm	1500	—	—	103-1008	**5PZJ3**
⅞-14 UNF Port Thread						
3.6	962 rpm	2000	—	—	103-1570	**4UA14**
4.6	762 rpm	2000	—	—	103-1010	**4UA15**
5.7	585 rpm	2000	—	—	103-1011	**4UA16**
7.3	470 rpm	2000	—	—	103-1571	**4UA17**
8.8	385 rpm	1900	—	—	103-1572	**4UA18**
10.1	353 rpm	1900	—	—	103-1012	**4UA19**
11.4	303 rpm	1850	103-1037	**4UA10**	103-1013	**4UA20**
13.7	243 rpm	1700	103-1038	**4UA11**	—	—
13.7	224 rpm	1700	—	—	103-1014	**4UA21**
18.2	192 rpm	1500	103-1039	**4UA12**	103-1015	**4UA22**
22.7	153 rpm	1300	103-1040	**4UA13**	103-1016	**4UA23**

Birotational Gear Pumps and Pumps/Motors

CONCENTRIC — USA — Series J&B



No. 4F659

GC Series—Viton® lip seal, outboard bearing, and reversing check valves. Cast iron housing. 4-bolt 4F17 mounting with ½" keyed x 1½" long shaft extension and side outlet ports. Max. shaft speed is 5000 rpm; min. speed is 750 rpm. Nos. 4F652 to 4F659 function as either pumps or motors.

Displacement (Cu. In./Rev.)*	GPM @ 1800 rpm and 1000 psi	GPM @ 3600 RPM and 1000 PSI	Max. Continuous PSI	Ports (Inlet)	Ports (Outlet)	Mfr. Model	Item No.
Hydraulic Gear Pump							
0.065	0.51	1.01	3000	9/16-18	9/16-18	1002496	**4F649**
0.097	0.6	1.2	3000	9/16-18	9/16-18	1002497	**4F650**
0.129	0.8	1.6	3000	3/4-16	3/4-16	1002498	**4F651**
Hydraulic Gear Pump/Motor							
0.194	1.2	2.5	3000	3/4-16	3/4-16	1002499	**4F652**
0.258	1.6	3.3	3000	3/4-16	3/4-16	1070054	**4F653**
0.323	2.6	5.3	3000	7/8-14	7/8-14	1070043	**4F654**
0.388	2.4	5.0	3000	7/8-14	7/8-14	1070045	**4F655**
0.453	2.8	5.8	2750	7/8-14	7/8-14	1070047	**4F656**
0.517	3.1	8.0	2500	7/8-14	7/8-14	1070049	**4F657**
0.647	3.9	8.3	2000	7/8-14	7/8-14	1070035	**4F658**
0.711	4.3	9.1	1800	7/8-14	7/8-14	1070033	**4F659**

** 1 cu. in./rev. = 16.4 cu. cm (cc).*

Hydraulic Gear Pumps

- Right-hand rotation
- Pressure balanced
- SAE ORB Inlet/Outlet ports
- 10-micron filtration required

These reliable, high-efficiency gear pumps provide a comparably continuous, nonpulsating flow. Through-bore, bushing-type pumps for intermittent and continuous-duty applications. Lightweight design features aluminum center section with cast-aluminum end covers.

Displacement (Cu. In./Rev.)*	GPM @ 1800 rpm & 1000 psi	GPM @ 3600 rpm & 1000 psi	Max. Continuous PSI	Min. RPM	Max. RPM	Ports (Inlet)	Ports (Outlet)	Shaft Extension (in.)	Mfr. Model	Item No.
W600 Series, SAE AA 2 Bolt										
0.183	1.4	2.7	4000	700	4000	⅞-14	¾-16	½ x 1 ½ Keyed	1850222	**1DBC3**
0.214	1.6	3.1	4000	700	4000	⅞-14	¾-16	½ x 1 ½ Keyed	1850223	**1DBC4**
0.244	1.8	3.6	4000	700	4000	⅞-14	¾-16	½ x 1 ½ Keyed	1850224	**1DBC5**
0.305	2.2	4.5	4000	700	4000	⅞-14	¾-16	½ x 1 ½ Keyed	1850225	**1DBC6**
0.427	3.1	6.3	4000	700	3450	⅞-14	¾-16	½ x 1 ½ Keyed	1850226	**1DBC7**
0.610	4.5	8.9	3200	700	2800	⅞-14	¾-16	½ x 1 ½ Keyed	1850227	**1DBC8**
W900 Series, SAE A 2 Bolt										
0.37	2.7	5.4	4000	500	4000	⅞-14	¾-16	¾ x 1 ¼ Keyed	1800288	**4F665**
0.49	3.6	7.1	4000	500	4000	1 1⁄16-12	⅞-14	¾ x 1 ¼ Keyed	1800289	**4F666**
0.67	4.9	9.8	4000	500	3600	1 1⁄16-12	⅞-14	¾ x 1 ¼ Keyed	1800290	**4F667**
0.85	6.3	—	4000	500	3300	1 1⁄16-12	⅞-14	¾ x 1 ¼ Keyed	1800291	**4F668**
0.98	7.1	—	4000	500	3000	1 1⁄16-12	⅞-14	¾ x 1 ¼ Keyed	1800292	**4F669**
1.16	8.5	—	4000	500	3000	1 5⁄16-12	1 1⁄16-12	¾ x 1 ¼ Keyed	1800293	**4F671**
1.4	10.5	—	3200	500	2500	1 5⁄16-12	1 1⁄16-12	¾ x 1 ¼ Keyed	1802741	**4NE30**
1.6	12	—	2700	500	2400	1 5⁄16-12	1 1⁄16-12	¾ x 1 ¼ Keyed	1802742	**4NE31**

** 1 cu.-in. = 16.4 cu.-cm (cc).*

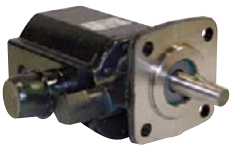


No. 4F665

2-Stage Hi/Low Gear Pumps

For presses, log splitters, clamping units, and compactors. Automatic 2-speed operation. First-stage pump unloads fully at 450 psi; second stage operates up to 3000 psi. Generally, 5-HP input is required for No. 4F663 and 8-HP for No. 4F664. Clockwise rotation. ½" dia. x 1 ½"L drive shaft with #404 Woodruff drive key. Motor coupling and adapter not included. Direct drive only. Nos. 5ZPL6 and 5ZPL7 have SAE "A" ⅝" keyed shaft.

Nom. Flow (gpm)	HP Req.	Input RPM	GPM @ Pressure 250 psi	GPM @ Pressure 2000 psi	Displacement @ PSI (cubic inches/rev.) Low	Displacement @ PSI (cubic inches/rev.) High	Ports Inlet	Ports Outlet	Max. psi 1st Stage	Max. psi 2nd Stage	Mounting Flange	Mfr. Model	Item No.
11.0	5	3600	10.94	2.72	0.517	0.194	1" Tube	½" NPTF	600	3000	4F17	1002508	**4F663**
13.6	10	3600	13.6	2.6	0.647	0.194	1" Tube	½" NPTF	600	3000	4F17	1003754	**5ZPL8**
16.0	11	3600	15.91	3.62	0.776	0.258	1" Tube	½" NPTF	600	3000	4F17	1002509	**4F664**
22	15	3600	22	6.3	0.93	0.465	1" NPTF	¾" NPTF	750	3000	SAE A	1080085	**5ZPL6**
28	20	3600	28	6.3	1.395	0.465	1" NPTF	¾" NPTF	750	3000	SAE A	1080086	**5ZPL7**



No. 4F663

Parker

Threaded Cartridge Valves, Bodies, and Coils

Nos. 4DML7 and 4UA84—Provide uncompensated adjustable flow control.

Nos. 4DML8 and 4UA86—For continuous duty applications. Best option for setting hydraulic system pressure.

Nos. 4DML9 and 4UA87—Used as crossover relief valves to limit pressure spikes.

Nos. 4DMN1 and 4UA85—Can be used in a leg of a hydraulic system to reduce pressure lower than the system pressure. Also act as a relief valve, relieving pressure spikes between regulated port and actuator.

No. 4DMK4—Provides control of an overrunning load and metering, and is suitable for holding a load.

No. 4DML1—Flow goes in the nose, and pressure compensated flow goes out top port 3, while bypass flow is unregulated and goes out port 2.

No. 4DML3—Consists of a steel ball that can seal against 1 of 2 adjacent seats, providing a path from the highest pressure signal to another function.

No. 4DML5—In the side-to-nose direction, it performs as a standard needle valve, limiting flow. Allows free flow in the reverse direction, nose to side.

No. 4UA88—Use for on/off or as a selector switch for 2 functions. Often used for raising and lowering a single-acting cylinder.

No. 4UA89—Used for reversing valve for raising and lowering a double-acting cylinder or to control the actuation of a hydraulic motor.

Nos. 4UA90 and 4UA91—Require 2 coils to operate.

Hydraulic Cartridge Valve Base—Allow individual piping of threaded cartridge valves.

Cartridge Valve Type	Valve Cavity Size	Max. Flow (gpm)	Max. Pressure	Mfr. Model	Item No.
Threaded Cartridge Valves					
08 Size Valves					
Check	C08-2	10	5000 psi	CVH081P	**4DML6**
Needle	C08-2	10	5500 psi	NVH081K	**4DML7**
Pilot-Operated Relief	C08-2	20	5000 psi	RAH081S50	**4DML8**
Direct Acting Differential Area Relief	C08-2	12	5000 psi	RDH083S50	**4DML9**
Pressure Reducing	C08-3	8	5000 psi	PRH081S50	**4DMN1**
Normally Closed Manual Poppet	C08-2	8	3000 psi	DL081K	**4DMN4**
Normally Open Solenoid	C08-2	8	3600 psi	DSL081N	**4DMN2**
Normally Closed Solenoid	C08-2	8	3600 psi	DSL081C	**4DMN3**
10 Size Valves					
Check	C10-2	16	5000 psi	CVH103P	**4UA81**
Needle	C10-2	16	5500 psi	NVH101K	**4UA84**
Pilot-Operated Relief	C10-2	30	5000 psi	RAH101S50	**4UA86**
Differential Area Relief	C10-2	20	5000 psi	RDH103S50	**4UA87**
Reducing/Relieving	C10-3	15	5000 psi	PRH101S50	**4UA85**
Counterbalance	C10-3	12	5000 psi	CB101AS30	**4DMK4**
Pressure Compensated Flow Control Restrictive Style	C10-2	10.6	6000 psi	J04E2ZN	**4DMK9**
Pressure Compensated Flow Control w/Bypass	C10-3	12	6000 psi	J04D3ZN	**4DML1**
Single Pilot-Operated Check	C10-3	8	5000 psi	CPH104P	**4DML2**
Shuttle	C10-3	10	5000 psi	CSH101B	**4DML3**
Normally Closed Manual Poppet	C10-2	13	3500 psi	DL101K	**4DML4**
Needle w/ Reverse Check	C10-2	12	3000 psi	FV101S	**4DML5**
Normally Open Solenoid	C10-2	15	3600 psi	DSL101N	**4UA83**
Normally Closed Solenoid	C10-2	15	3600 psi	DSL101C	**4UA82**
3-Way Solenoid	C10-3	4.5	3600 psi	DSL103A	**4UA88**
Directional Control Valve	C10-4	8	3600 psi	DSL104B	**4UA89**
Directional Control Valve	C10-4	7	3600 psi	DSL105C1	**4UA90**
Directional Control Valve	C10-4	5	3600 psi	DSL105C9	**4UA91**
10 Size Valve Assemblies					
Single Pilot-Operated Check		15	5000 psi	CSPH103A20-8T	**4DMK8**
Double Pilot-Operated Check		15	5000 psi	CDPH103A20-8T	**4DMK7**

Fits Valve No.	Body Material	(F)NPT Port (in.)	Port Size	Mfr. Model	Item No.
Hydraulic Cartridge Valve Base					
4DML6, 4DML7, 4DML8, 4DML9, 4DMN2, 4DMN3, 4DMN4	Aluminum		#6 SAE	B08-2-A6T	**4DMN5**
	Steel	—	#6 SAE	B08-2-6T	**4DMN6**
4DMN1	Aluminum	—	#6 SAE	B08-3-A6T	**4DMN7**
	Steel	—	#6 SAE	B08-3-6T	**4DMN8**
4UA81, 4UA82, 4UA83, 4UA84, 4UA86, 4UA87, 4DMK9, 4DML4, 4DML5	Aluminum	SAE-8	#8 SAE	B10-2-A8T	**4UA95**
	Steel	—	#8 SAE	B10-2-8T	**4DMK6**
4UA85, 4UA88, 4DMK4, 4DML1, 4DML2, 4DML3	Aluminum	SAE-8	#8 SAE	B10-3-A8T	**4UA96**
	Steel	—	#8 SAE	B10-3-8T	**4DMK5**
4UA89, 4UA90, 4UA91	Aluminum	SAE-8	#8 SAE	B10-4-A8T	**4UA97**

Voltage	Termination	Fits Valve Number	Mfr. Model	Item No.
Solenoid Valve Coils				
08 Size Coils				
12VDC	Double Leads	4DMN2, 4DMN3	CCP012L	**4DMN9**
	Double Spade		CCP012S	**4DMP3**
24VDC	Double Leads		CCP024L	**4DMP1**
	Double Spade		CCP024S	**4DMP4**
110/120VAC	Conduit Connector		CCP115C	**4DMP2**
10 Size Coils				
12VDC	Double Leads	4UA82, 4UA83, 4UA88, 4UA89, 4UA90, 4UA91	CAP012L	**4DMK2**
	Double Spade		CAP012S	**4DMJ9**
24VDC	Double Leads		CAP024L	**4DMK3**
	Double Spade		CAP024S	**4DMK1**
110/120VAC	Conduit Connector		CAP115C	**4DMJ8**



No. 4UA84



No. 4UA86



No. 4UA82



No. 4UA88



No. 4DMK7

Parker

Flow Control, Needle, and Check Valves


No. 1A042

Brass valves are for pneumatic and medium-pressure hydraulic applications. Steel valves are for high-pressure hydraulic applications.

Flow Control—Provide precision flow control in 1 direction and automatically allow unrestricted free flow in opposite direction. 2-step needle allows fine adjustment at low flow.

Needle—Used as speed controls where a reverse flow check valve is not needed. May be used to control flow in both directions.

Check—Provide free flow in 1 direction and dependable shutoff in the opposite direction. Cracking pressure: 5 psi.

Note: Parker, DT, CV, and DC check valves are available; on Grainger.com®, search for "check valves."

Port (in.)	Flow Range (gpm)	FLOW CONTROL VALVES L (in.)	H* (in.)	Mfr. Model	Item No.	NEEDLE VALVES L (in.)	H* (in.)	Mfr. Model	Item No.	CHECK VALVES L (in.)	H* (in.)	Mfr. Model	Item No.
Brass Valves 2000 psi													
⅛-27	3	2.00	1.54	F200B	**1A853**	1.50	1.54	N200B	**1A861**	2.00	0.63	C200B	**1A857**
¼-18	5	2.63	1.79	F400B	**1A854**	2.00	1.79	N400B	**1A862**	2.63	0.81	C400B	**1A858**
⅜-18	8	2.75	2.18	F600B	**1A855**	2.50	2.18	N600B	**1A863**	2.75	1.00	C600B	**1A859**
½-14	15	3.44	2.70	F800B	**1A856**	2.62	2.70	N800B	**1A864**	3.44	1.25	C800B	**1A860**
Steel Valves 3000 psi													
¾-14	25	3.88	3.38	F1200S	**1A865**	—	—	—	—	—	—	—	—
Steel Valves 5000 psi													
¼-18	5	2.63	1.79	F400S	**1A041**	2.00	1.79	N400S	**1A047**	2.63	0.81	C400S	**1A044**
⅜-18	8	2.75	2.18	F600S	**1A042**	2.50	2.18	N600S	**1A048**	2.75	1.00	C600S	**1A045**
½-14	15	3.44	2.70	F800S	**1A043**	2.62	2.70	N800S	**1A049**	3.44	1.25	C800S	**1A046**
¾-14	25	—	—	—	—	3.25	3.38	N1200S	**1A867**	3.88	1.50	C1200S	**1A866**

**** Height of valves is measured from center of port with adjustment knob fully open.***


No. 6PAA3

Parker

High-Pressure Carbon Steel Ball Valves

- Max. pressure: 6000 psi

Excellent for use in high-pressure hydraulic oil systems. Lockable handle valves have a handle that can be locked into position using a padlock that has a 5⁄16"-dia. shackle (not included).

Port Size	STANDARD HANDLE Mfr. Model	Item No.	LOCKABLE HANDLE Mfr. Model	Item No.
NPT				
¼" NPT	BVHP04NSS1N	**6PAA1**	BVHP04NSS1NA	**6PAC7**
⅜" NPT	BVHP06NSS1N	**6PAA2**	BVHP06NSS1NA	**6PAC8**
½" NPT	BVHP08NSS1N	**6PAA3**	BVHP08NSS1NA	**6PAC9**
¾" NPT	BVHP12NSS1N	**6PAA4**	BVHP12NSS1NA	**6PAD0**
1" NPT	BVHP16NSS1N	**6PAA5**	BVHP16NSS1NA	**6PAD1**
1¼" NPT	BVAH20NSS1N	**6PAA6**	BVAH20NSS1NA	**6PAD2**
1½" NPT	BVAH24NSS1N	**6PAA7**	BVAH24NSS1NA	**6PAD3**
2" NPT	BVAH32NSS1N	**6PAA8**	—	—
SAE				
#4 SAE	BVHP04SSS1N	**6PAA9**	—	—
#6 SAE	BVHP06SSS1N	**6PAC0**	—	—
#8 SAE	BVHP08SSS1N	**6PAC1**	—	—
#12 SAE	BVHP12SSS1N	**6PAC2**	BVHP12SSS1NA	**6PAD8**
#16 SAE	BVHP16SSS1N	**6PAC3**	BVHP16SSS1NA	**6PAD9**


No. 38D927

Parker

Hydraulic Double Pilot-Operated Check Valves

- Cast iron body
- Reverse free flow

Inlet Port Size	Outlet Port Size	Max. Flow	Max. Pressure	Mfr. Model	Item No.
½" NPT	½" NPT	25.0 gpm	2000 psi	**LO-50-D**	**38D927**
⅝" NPT	⅝" NPT	25.0 gpm	3000 psi	**LO-10-D**	**38D928**


No. 6X843


No. 4BA48


No. 6PAE5


No. 4HL35

Prince EATON Vickers Parker

Relief Valves

Control maximum pressure within a hydraulic circuit. No. 6X843 is designed for full flow with low pressure drop.

No. 4HL34 is a differential poppet inline relief that has a minimum variation between cracking and full flow pressures.

Nos. 4BA48 to 4BA50 have 2-stage balanced piston design, providing fast response and minimizing pressure override.

No. 4HL35 is a double differential poppet relief that is used in systems that require crossover relief protection such as a hydraulic motor.

Item	Port Size	Pressure Range	Max. Flow	Brand	Mfr. Model	Item No.
Single						
Relief Valve	½" NPT	1000 to 2500 psi	16.0 gpm	Prince	RD1850H	**6X843**
Adjustable Relief Valve	⅞"-14 UNF	125 to 1000 psi	45.0 gpm	Eaton Vickers	CS-03-B50	**4BA48**
	⅞"-14 UNF	500 to 2000 psi	45.0 gpm	Eaton Vickers	CS-03-C50	**4BA49**
	⅞"-14 UNF	1500 to 3000 psi	45.0 gpm	Eaton Vickers	CS-03-F50	**4BA50**
Inline Relief Valve	¾" NPT	1500 to 3000 psi	30.0 gpm	Prince	RV-2H	**4HL34**
Hydraulic Valve	#12 SAE	100 to 1532 psi	53.0 gpm	Parker	R4V065B110A1	**6PAE3**
	#12 SAE	100 to 3045 psi	53.0 gpm	Parker	R4V065B310A1	**6PAE4**
	#12 SAE	100 to 5075 psi	53.0 gpm	Parker	R4V065B510A1	**6PAE5**
Pressure Relief Valve	¾" NPT	0 to 2000 psi	60.0 gpm	Parker Gresen	RPL-75-A	**38D924**
	#12 SAE	0 to 5000 psi	60.0 gpm	Parker Gresen	RPL-12-A	**38D923**
Double						
Relief Valve	¾" NPT	1500 to 3000 psi	30.0 gpm	Prince	DRV-2HH	**4HL35**

Parker

Hydraulic 2-Position Selector Valves


No. 38D925

Port Size	Valve Ways and Positions	Overall Length	Max. Pressure	Mfr. Model	Item No.
½" NPT	3-Way/2-Position	5 13⁄16"	2000 psi	**S-50**	**38D932**
¾" NPT	3-Way/2-Position	6⅝"	2000 psi	**S-75**	**38D934**
¾" NPT	6-Way/2-Position	8½"	2000 psi	**DS-75**	**38D926**
#8 SAE	3-Way/2-Position	5 13⁄16"	3000 psi	**S-8**	**38D931**
#12 SAE	3-Way/2-Position	6⅝"	3000 psi	**S-12**	**38D933**
#12 SAE	6-Way/2-Position	8½"	3000 psi	**DS-12**	**38D925**

Looking for High-Pressure Fittings and Couplers

Find High-Pressure Hydraulic Fittings and Couplers on pages 2486 and 2489, or for our full selection go to **grainger.com/hydraulic-fittings**



Find Sandwich Check, Relief, and Flow Control Valves at Grainger.com®.

Adjustable-Flow Control Valves

Pressure compensated operation varies speed smoothly over the full range. Once speed is set with the lever, it remains constant regardless of load variation.



No. 6X842

Max. Flow	Outlet Port Size	Max. Pressure	Adjustable Relief Valve	Mfr. Model	Brand	Item No.
16.0 gpm	½" NPT	3000 psi	No	RD-150-16	Prince	**5PP06**
	½" NPT	3000 psi	Yes	RDRS-150-16	Prince	**5PP08**
30.0 gpm	¾" NPT	3000 psi	Yes	RDRS-175-30	Prince	**6X842**
	¾" NPT	3000 psi	No	RD-175-30	Prince	**5PP07**
35.0 gpm	¾" NPT	2000 psi	No	CFQ-A-75	Parker Gresen	**38D922**
	#12 SAE	3000 psi	No	CFQ-A-12	Parker Gresen	**38D921**

Flow Dividers



No. 4F661

Accurately divide flow from a single pump source to a pair of matched cylinders or fluid motors. Gear-type rotary flow dividers synchronize 2 parallel motions hydraulically rather than mechanically. Max. outlet pressure: 4500 psi. Max. speed: 4500 rpm. Integral differential relief valves for each circuit limit pressure intensification. Cast-iron body.

Flow Rate (gpm)	Displacement (cc/rev)	Operating Pressure (psi)	SAE Port Sizes (in.) Inlet	Outlet	Brand	Item No.
2.4-5	0.129	3000	¾ -16	¾ -16	Concentric	**4F660**
5-10	0.258	2300	⅞ -14	⅞ -14	Concentric	**4F661**
10-20	0.581	2750	1⅝ -12	⅞ -14	Concentric	**4F662**
35		2000	¾	¾	Parker Gresen	**38D930**
35		2500	1 1/16"-12	1 1/16"-12	Parker Gresen	**38D929**

D03 and D05 Size Solenoid-Operated Directional Valves

Bolt kits for valves available separately.

Note: Additional solenoid-operated directional valves are available; on Grainger.com®, search for "solenoid-operated directional valves."

D03 SIZE

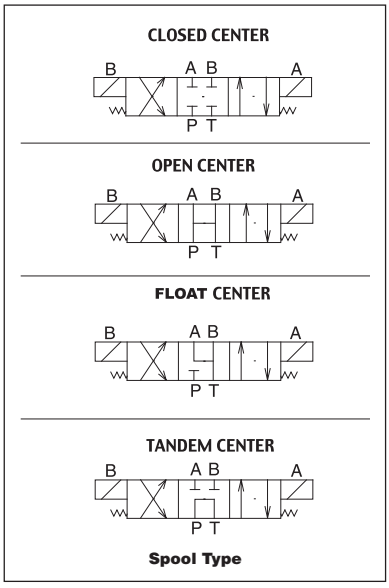
- Working port pressure (P, A, B): 5000 psi max.
- Max. tank pressure: 1500 psi AC, 3000 psi DC
- AC valves have conduit box-style termination; DC valves require wire connector plugs, Nos. 4UB23 and 4UB24, sold separately

Optimized valve body/spool design minimizes pressure drop and energy consumption. Compatible with D03 and CETOP-3 mounting patterns.

D05 SIZE

- Max. operating pressure: 5000 psi
- Max. tank pressure: 1500 psi AC, 3000 psi DC
- Integral conduit box for wire termination

Feature higher machine productivity and uptime. Compatible with D05 and CETOP-5 mounting patterns. Solenoid/core tube design allows coils to be changed without removing valve from installation. Manual overrides.



Coil Volts	Spool Type	D03 VALVES Max. GPM @ 3000 psi	D03 VALVES Mfr. Model	D03 VALVES Item No.	D05 VALVES Max. GPM @ 3000 psi	D05 VALVES Mfr. Model	D05 VALVES Item No.
110-120 AC	Open	12.5	D1VW002CNYGF5	**2NMU2**	30	D3W002CNYK5	**5AE84**
	Closed	22	D1VW001CNYGF5	**2NMU3**	28	D3W001CNYK5	**4UB27**
	Float	12	D1VW004CNYGF5	**2NMU4**	17	D3W004CNYK5	**4UB28**
	Tandem	12.5	D1VW009CNYGF5	**2NMU5**	12	D3W009CNYK5	**4UB29**
12 DC	Open	20	D1VW002CNKW	**2NMU6**	40	D3W002CNKW	**4DJY6**
	Closed	20	D1VW001CNKW	**2NMU7**	40	D3W001CNKW	**4DJY7**
	Float	18.5	D1VW004CNKW	**2NMU8**	—	—	—
	Tandem	13.3	D1VW009CNKW	**2NMU9**	23	D3W009CNKW	**4DJY9**
24 DC	Open	20	D1VW002CNJW	**2NMV1**	—	—	—
	Closed	20	D1VW001CNJW	**2NMV2**	40	D3W001CNJW	**4DJZ2**
	Float	18.5	D1VW004CNJW	**2NMV3**	—	D3W004CNJW	**4DJZ3**
	Tandem	13.3	D1VW009CNJW	**2NMV4**	23	D3W009CNJW	**4DJZ4**

Description	D03 ACCESSORIES Port Size	D03 ACCESSORIES Mfr. Model	D03 ACCESSORIES Item No.	D05 ACCESSORIES Port Size	D05 ACCESSORIES Mfr. Model	D05 ACCESSORIES Item No.
Accessories for D03 and D05 Valves						
Subplate Bottom Port	SAE #8 (¾ x 16)	SPD24SS35	**4UB20**	½-14 NPTF	SPD34NS35	**4UB31**
	¼-18 NPTF	SPD22NS35	**4UB21**	—	—	—
Subplate Side Port	SAE #8 (¾ x 16)	SPD24SAS35	**4UB22**	—	—	—
Black Wire Connector Plug for Solenoid B	—	692914	**4UB23**	—	—	—
Gray Wire Connector Plug for Solenoid A	—	692915	**4UB24**	—	—	—
Bolt Kit for CETOP-03 Valves	—	BK209	**4UB25**	—	—	—
Subplate Side Port	SAE #8 (¾ x 16)	SPD34SAS35	**4UB32**	—	—	—
Bolt Kit for CETOP-05 Valves	—	—	—	—	BK98	**4UB33**
Cover Plate	—	SPD2C1EN35	**45NL42**	—	SPD3C1EN35	**45NL43**



No. 2NMU3



No. 4UB27

Monoblock Valves

- Load checks provided on all spools (except No. 1A967)
- All valves have direct-acting relief valves

Single-spool valves are 3-position and tandem center, 2- and 3-spool valves have a float spool. Nos. 6X845, 4HL36, 4HL37, 6W566, and 4HL32 can be converted to closed center or to power beyond operation; No. 6W565 can be converted to closed center only. No. 1A967 has a pressure detent release preset at 1200 psi.

Note: Additional stack valves are available; on Grainger.com®, search for "stack valves."



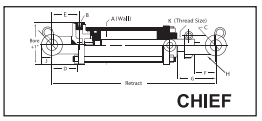
No. 6X844

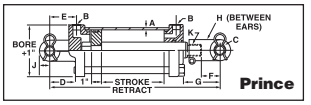


No. 6W566

Spool Action	Ways	Spools	Inlet/ Outlet Port Size NPT (in.)	Work Port Size NPT (in.)	Capacity gpm	Factory Relief Setting	Relief Range psi	Max. psi	Mfr. Model	Item No.	
Spring Center To Neutral	4	1	½	½	16	1500 psi @ 12 gpm	1000 to 2750	3000	RD2555T4ESA1	**6X844**	
	4	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512CA5A4B1	**6X845**	†*
Detented	4	1	¾	½	20	1500 psi @ 12 gpm	1000 to 2750	3000	RD2575T4EDA1	**6W565**	‡
	4	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512CB5A4B1	**4HL36**	‡
Spring Center To Neutral	4	1	¾	½	25	2250 psi @ 3 gpm	1000 to 2750	2750	LS3000-1	**1A967**	
	3	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512AA5A4B1	**4HL37**	†*
No. 1: Spring Center To Neutral and 4th Position Detent. No. 2: Spring Center To Neutral	4	2	¾	½	25	2000 psi @ 10 gpm	1500 to 3000	3000	RD522GCGA5A4B1	**6W566**	†*
No. 1: Spring Center To Neutral and 4th Position Detent. No. 2 and No. 3: Spring Center To Neutral	4	3	¾	½	25	2000 psi @ 10 gpm	1500 to 3000	3000	RD532GCGAA5A4B1	**4HL32**	†*

**** Power beyond requires Prince Number 40ZV88 plug. † Closed center requires Prince Number 40ZV87 plug. ‡ Closed center requires Prince Number 40ZV89. Repair parts can be ordered from your local Grainger branch.***





No. 53PZ37



No. 4HL44



CHIEF® Prince
Double-Acting Tie-Rod Cylinders

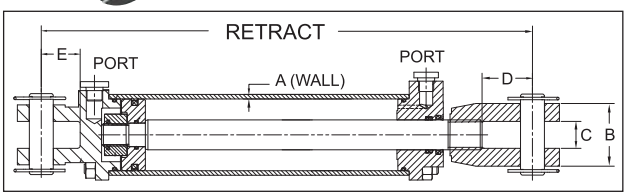
2500 psi models feature: O-ring seal and vented back-up washers on piston, and U-cup on the gland. 3000 psi models feature: RoyalPlate Plus® coating on all piston rods which offers substantial performance enhancements and outstanding corrosion protection. Precision-honed tubes and ground and polished chromed piston rods. Ductile-iron piston with O-ring seal between piston rod and piston. Urethane U-cup rod seal, metal encased rod wiper (2½" bore and larger), crown seal on piston, nylon bearing on piston (4", 4½", and 5" bores), and hardened pins (4", 4½", and 5" bores). O-ring seal between tube and ductile-iron butt and gland casting.

Bore Dia.	Stroke Length	Retracted Length	Column Load	Rod Dia.	Max. Pressure	Dimensions (in.) A	B*	C	D	E	F	G	H	J	K	Mfr. Model	Item No.
Chief																	
2"	4"	14¼"	9420 lb.	1⅛"	3000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	3.490	1.167	1.060	1 ⅛-12	200411TCU3	**53PZ37**
2"	8"	20¼"	9420 lb.	1⅛"	3000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	5.490	1.167	1.060	1 ⅛-12	200811TCU3	**53PZ38**
2"	20"	30¼"	7050 lb.	1⅛"	3000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	3.490	1.167	1.060	1 ⅛-12	202011TCU3	**53PZ39**
2½"	8"	20¼"	14,720 lb.	1⅛"	3000 psi	3/16	SAE 8	1.000	2.060	2.713	2.125	5.490	1.167	1.060	1 ⅛-12	250811TCU3	**53PZ40**
2½"	12"	22¼"	14,720 lb.	1⅛"	3000 psi	3/16	SAE 8	1.000	2.060	2.713	2.125	3.490	1.167	1.060	1 ⅛-12	251211TCU3	**53PZ41**
3"	8"	20¼"	21,200 lb.	1¼"	3000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	5.352	1.167	1.060	1 ¼-12	300812TCU3	**53PZ42**
3"	16"	31½"	21,200 lb.	1½"	3000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	8.602	1.167	1.060	1 ¼-12	301615TCU3	**53PZ43**
3"	24"	34¼"	16,580 lb.	1½"	3000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	3.307	1.167	1.060	1 ¼-12	302415TCU3	**53PZ44**
3½"	8"	20¼"	28,860 lb.	1½"	3000 psi	3/16	SAE 8	1.060	2.000	2.756	2.125	5.352	1.167	1.060	1 ¼-12	350815TCU3	**53PZ45**
3½"	16"	31½"	22,350 lb.	1½"	3000 psi	3/16	SAE 8	1.060	2.000	2.756	2.125	8.602	1.167	1.060	1 ¼-12	351615TCU3	**53PZ46**
4"	8"	20¼"	37,690 lb.	1½"	3000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	5.372	1.167	1.060	1 ¼-12	400815TCU3	**53PZ47**
4"	16"	31½"	37,690 lb.	2"	3000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	8.622	1.167	1.060	1 ¼-12	401620TCU3	**53PZ48**
4"	24"	34¼"	37,690 lb.	2"	3000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	3.372	1.167	1.060	1 ¼-12	402420TCU3	**53PZ49**
5"	8"	20¼"	58,900 lb.	2"	3000 psi	¼	SAE 12	1.378	2.118	2.925	2.125	4.089	1.200	1.130	1 ½-12	500820TCU3	**53PZ50**
5"	16"	31½"	58,900 lb.	2"	3000 psi	¼	SAE 8	1.378	2.118	2.925	2.125	7.339	1.200	1.130	1 ½-12	501620TCU3	**53PZ51**
5"	24"	36¼"	58,900 lb.	2¼"	3000 psi	¼	SAE 8	1.378	2.118	2.925	2.125	4.089	1.200	1.130	1 ½-12	502422TCU4	**53PZ52**
Prince																	
2"	4"	14¼"	9425 lb.	1⅛"	3000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	3½	1.06	15/16	1⅛-12 UNF	B200040ABAAA07B	**4HL38**
2"	8"	20¼"	9425 lb.	1⅛"	3000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	5½	1.06	15/16	1⅛-12 UNF	A200080ABAAA07B	**4HL39**
2"	20"	30¼"	7760 lb.	1⅛"	3000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	3½	1.06	15/16	1⅛-12 UNF	B200200ABAAA07B	**4HL40**
2½"	8"	20¼"	14,730 lb.	1¼"	3000 psi	3/16	¾-16	1.015	1⅞	2 13/16	1 13/16	5 5/16	1.06	15/16	1⅛-12 UNF	A250080ABAAA07B	**4HL41**
2½"	12"	22¼"	14,730 lb.	1¼"	3000 psi	3/16	¾-16	1.015	1⅞	2 13/16	1 13/16	3 5/16	1.06	15/16	1⅛-12 UNF	B250120ABAAA07B	**4HL42**
3"	8"	20¼"	16,900 lb.	1⅜"	3000 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	5¾	1.06	1 1/16	1⅛-12 UNF	A300080ABAAA07B	**4HL43**
3"	16"	31½"	16,730 lb.	1⅜"	3000 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	9	1.06	1 1/16	1⅛-12 UNF	A300160ABAAA07B	**4HL44**
3"	24"	34¼"		1⅜"	3000 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	3¾	1.06	1 1/16	1⅛-12 UNF	B300240ABAA07B	**4HL45**
3½"	8"	20¼"		1⅜"	3000 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	5 ¾	1.06	1¼	1 5/16-12 UNF	A350080ABAA07B	**4HL46**
3½"	16"	31½"	16,900 lb.	1⅜"	3000 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	9	1.06	1¼	1 5/16-12 UNF	A350160ABAAA07B	**4HL47**
4"	8"	20¼"	37,700 lb.	1¾"	3000 psi	3/16	¾-16	1.015	1¾	2 1/16	1⅞	5¼	1.06	1¼	1½-12 UNF	A400080ABACA07B	**4HL49**
4"	16"	31½"	37,700 lb.	1¾"	3000 psi	3/16	¾-16	1.015	1¾	2 1/16	1⅞	8½	1.06	1¼	1½-12 UNF	A400160ABACA07B	**4HL50**
4"	24"	34¼"	33,710 lb.	1¾"	3000 psi	3/16	¾-16	1.015	1¾	2 1/16	1⅞	3¼	1.06	1¼	1½-12 UNF	B400240ABACA07B	**4HL51**
4½"	8"	20¼"	47,710 lb.	2"	3000 psi	¼	⅞-14	1.265	2¼	2 15/16	2	4	1.13	15/16	1½-12 UNF	B450080ACDDA07B	**4HL52**
4½"	16"	31½"	47,710 lb.	2"	3000 psi	¼	⅞-14	1.265	2¼	2 15/16	2	7¼	1.13	15/16	1½-12 UNF	A450160ACDDA07B	**4HL53**
4½"	24"	36¼"	44,710 lb.	2"	3000 psi	¼	⅞-14	1.265	2¼	2 15/16	2	4	1.13	15/16	1½-12 UNF	B450240ACDDA07B	**4HL54**
4½"	30"	42¼"	37,530 lb.	2"	3000 psi	¼	⅞-14	1.265	2¼	2 15/16	2	4	1.13	15/16	1½-12 UNF	B450300ACDDA07B	**4HL55**
5"	8"	20¼"	58,900 lb.	2"	3000 psi	¼	⅞-14	1.265	1¾	2⅝	2	4	1.13	1⅜	1½-12 UNF	B500080ACDDA07B	**4HL56**
5"	16"	31½"	58,900 lb.	2"	3000 psi	¼	⅞-14	1.265	1¾	2⅝	2	7¼	1.13	1⅜	1½-12 UNF	A500160ACDDA07B	**4HL57**
5"	24"	36¼"	54,510 lb.	2"	3000 psi	¼	⅞-14	1.265	1¾	2⅝	2	4	1.13	1⅜	1½-12 UNF	B500240ACDDA07B	**4HL58**
2½"	8"	20¼"	Full PSI	1⅛"	2500 psi	⅛	¾-16	1.015	1⅞	2 13/32	1 13/16	5½	1.06	15/16	1⅛-12 UNF	SAE-7008	**4Z189**
3"	8"	20¼"	Full PSI	1⅛"	2500 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	5¾	1.06	15/16	1⅛-12 UNF	SAE-7108	**4Z190**
3½"	8"	20¼"	Full PSI	1⅛"	2500 psi	3/16	¾-16	1.015	1⅞	2 1/16	1 13/16	5⅞	1.06	1¼	1⅛-12 UNF	SAE-7208	**4Z191**
4"	8"	20¼"	Full PSI	1½"	2500 psi	3/16	¾-16	1.015	1¾	2 1/16	1⅞	5¼	1.06	1¼	1½-12 UNF	SAE-8608	**4Z192**
5"	8"	20¼"	Full PSI	1¾"	2500 psi	¼	⅞-14	1.265	1¾	2⅝	2	4	1.06	1¼	1½-12 UNF	SAE-8208	**4Z193**

**** SAE O-ring.***



No. 6FCX5



Double-Acting Tie-Rod Cylinders MAXIM

- Max. working pressure: 2500 psi
- Temp. range: -20° to 220°F

Cylinders feature precision-honed steel tube and ductile-iron piston with high-tensile strength chrome-plated rod. Polypak rod seals. Pins and clips are included. 1" pin dia., except Nos. 6FCX8, 6FCZ3, and 6FDC0 are 1¼" dia. Black color.

Bore Dia.	Stroke Length	Retracted Length	Rod Dia.	Dimensions (in.) A	B*	C	D	E	Mfr. Model	Item No.
2"	4"	14¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-297	**6FCT9**
2"	6"	16¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-298	**6FCU0**
2"	8"	18¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-299	**6FCU1**
2"	8"	20¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-300	**6FCU2**
2"	10"	20¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-306	**6FCU3**
2"	12"	22¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-307	**6FCU4**
2"	14"	24¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-308	**6FCU5**
2"	16"	26¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-309	**6FCU6**
2"	18"	28¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-310	**6FCU7**
2"	20"	30¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-311	**6FCU8**
2"	24"	34¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-312	**6FCU9**
2"	30"	40¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-313	**6FCV0**
2"	36"	46¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-314	**6FCV1**
2"	48"	58¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-315	**6FCV2**
2½"	4"	14¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-316	**6FCV4**
2½"	6"	16¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-317	**6FCV5**
2½"	8"	18¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-318	**6FCV6**
2½"	8"	20¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-301	**6FCV7**

**** Pin dia.: 1¼" for cylinders with 3" to 4" bore.***

Bore Dia.	Stroke Length	Retracted Length	Rod Dia.	Dimensions (in.) A	B*	C	D	E	Mfr. Model	Item No.
2½"	10"	20¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-319	**6FCV8**
2½"	12"	22¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-320	**6FCV9**
2½"	14"	24¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-321	**6FCW0**
2½"	16"	26¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-322	**6FCW1**
2½"	18"	28¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-323	**6FCW2**
2½"	20"	30¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-324	**6FCW3**
2½"	24"	34¼"	1⅛"	0.189	2.500	1.125	2.125	1.625	218-325	**6FCW4**
2½"	30"	40¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-329	**6FCW5**
2½"	36"	46¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-330	**6FCW6**
2½"	48"	58¼"	1¼"	0.189	2.500	1.125	2.125	1.625	218-331	**6FCW7**
3"	4"	14¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-333	**6FCX0**
3"	6"	16¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-334	**6FCX1**
3"	8"	18¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-335	**6FCX2**
3"	8"	20¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-302	**6FCX3**
3"	10"	20¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-336	**6FCX4**
3"	12"	22¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-337	**6FCX5**
3"	14"	24¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-338	**6FCX6**
3"	16"	26¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-339	**6FCX7**
3"	16"	31½"	1¼"	0.189	2.625	1.125	2.125	1.625	218-340	**6FCX8** *
3"	18"	28¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-341	**6FCX9**
3"	20"	30¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-342	**6FCY0**
3"	24"	34¼"	1¼"	0.189	2.625	1.125	2.125	1.625	218-343	**6FCY1**
3"	30"	40¼"	1½"	0.189	2.625	1.125	2.125	1.625	218-344	**6FCY2**
3"	36"	46¼"	1½"	0.189	2.625	1.125	2.125	1.625	218-345	**6FCY3**
3"	48"	58¼"	1½"	0.189	2.625	1.125	2.125	1.625	218-346	**6FCY4**
3½"	8"	18¼"	1½"	0.218	2.625	1.125	2.125	1.625	218-349	**6FCY7**
3½"	8"	20¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-303	**6FCY8**
3½"	10"	20¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-350	**6FCY9**
3½"	12"	22¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-351	**6FCZ0**
3½"	14"	24¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-352	**6FCZ1**
3½"	16"	26¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-353	**6FCZ2**
3½"	16"	31½"	1½"	0.218	2.625	1.125	2.125	1.625	218-354	**6FCZ3** *
3½"	18"	28¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-355	**6FCZ4**
3½"	20"	30¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-356	**6FCZ5**
3½"	24"	34¼"	1½"	0.218	2.625	1.125	2.125	1.625	218-326	**6FCZ6**
3½"	30"	40¼"	1½"	0.218	2.625	1.125	2.125	1.625	218-327	**6FCZ7**
3½"	36"	46¼"	1½"	0.218	2.625	1.125	2.125	1.625	218-328	**6FCZ8**
3½"	6"	16¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-348	**6FCZ9**
3½"	4"	14¼"	1¼"	0.218	2.625	1.125	2.125	1.625	218-347	**6FDA0**
3½"	48"	58¼"	1½"	0.218	2.625	1.125	2.125	1.625	218-357	**6FDA1**
4"	8"	18¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-360	**6FDA4**
4"	8"	20¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-304	**6FDA5**
4"	10"	20¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-361	**6FDA6**
4"	12"	22¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-362	**6FDA7**
4"	14"	24¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-363	**6FDA8**
4"	16"	26¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-364	**6FDA9**
4"	16"	31½"	2"	0.244	2.625	1.125	2.125	1.625	218-365	**6FDC0** *
4"	18"	28¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-366	**6FDC1**
4"	20"	30¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-367	**6FDC2**
4"	24"	34¼"	1½"	0.244	2.625	1.125	2.125	1.625	218-305	**6FDC3**
4"	24"	34¼"	2"	0.244	2.625	1.125	2.125	1.625	218-332	**6FDC4**
4"	30"	40¼"	2"	0.244	2.625	1.125	2.125	1.625	218-368	**6FDC5**
4"	36"	46¼"	2"	0.244	2.625	1.125	2.125	1.625	218-369	**6FDC6**
4"	48"	58¼"	2"	0.244	2.625	1.125	2.125	1.625	218-370	**6FDC7**

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Prince

Double-Acting Ag/Mobile Welded Cylinders

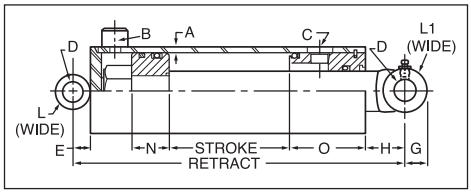
- Max. working pressure: 2500 psi

Crosstube end mountings. All-steel welded construction. Heavy-wall honed steel tubing. Ground and polished chrome piston rod. Cast-iron ring, O-ring, and back-up washer packing on piston. Urethane U-cup rod seal. Truarc gland retainer. Cylinders will operate at full pressure through 24" stroke except: No. 5Z369 with limit of 13,000 lb. (1839 psi) in extension; No. 5Z370 with limit of 13,540 lb. (1407 psi) in extension; and No. 5Z371 with limit of 9700 lb.

Bore Dia.	Stroke Length	Retracted Length	Rod Dia.	NPT Port (in.)	Mfr. Model	Item No.
2½"	8"	16"	1⅜"	⅜	PMC-5408	**5PN98**
	16"	24"	1⅜"	⅜	PMC-5416	**5Z366**
	24"	32"	1⅜"	⅜	PMC-5424	**5Z367**
3"	12"	20"	1½"	½	PMC-8312	**5PP03**
	16"	24"	1½"	½	PMC-8316	**5PP04**
	20"	28"	1½"	½	PMC-8320	**5Z368**
	30"	38"	1½"	½	PMC-8330	**5Z369**
	36"	44"	1½"	½	PMC-8336	**5PP05**
3½"	30"	38"	1½"	½	PMC-5530	**5Z370**
	36"	44"	1½"	½	PMC-5536	**5Z371**
4"	16"	25"	2"	½	PMC-5616	**5PN99**
	30"	39"	2"	½	PMC-5630	**5Z372**
	36"	45"	2"	½	PMC-5636	**5PP01**
	48"	57"	2"	½	PMC-5648	**5PP02**



No. 5PN99



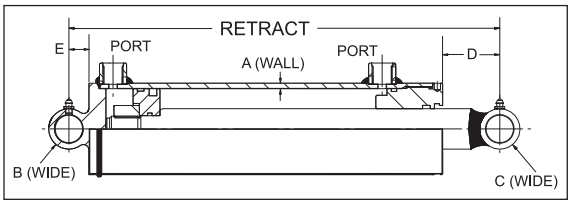
Dimensions (in.)

Bore (in.)	A	B*	C*	D	E	G	H	L	L1	N	O
2½"	3/16	3/8	3/8	0.760	9/16	3/4	2 9/16	3	1 3/8	1 1/4	2 1/2
2½"	3/16	3/8	3/8	0.760	9/16	3/4	2 9/16	3	1 3/8	1 1/4	2 1/2
2½"	3/16	3/8	3/8	0.760	9/16	3/4	2 9/16	3	1 3/8	1 1/4	2 1/2
3"	3/16	1/2	1/2	1.015	1 1/16	1	2 5/16	3 1/2	1 1/2	1 1/4	2 5/8
3"	3/16	1/2	1/2	1.015	1 1/16	1	2 5/16	3 1/2	1 1/2	1 1/4	2 5/8
3"	3/16	1/2	1/2	1.015	1 1/16	1	2 5/16	3 1/2	1 1/2	1 1/4	2 5/8
3"	3/16	1/2	1/2	1.015	1 1/16	1	2 5/16	3 1/2	1 1/2	1 1/4	2 5/8
3"	3/16	1/2	1/2	1.015	1 1/16	1	2 5/16	3 1/2	1 1/2	1 1/4	2 5/8
3½"	3/16	1/2	1/2	1.015	1 1/16	1	1 11/16	4	1 1/2	1 1/2	2 5/8
3½"	3/16	1/2	1/2	1.015	1 1/16	1	1 11/16	4	1 1/2	1 1/2	2 5/8
4"	3/16	1/2	1/2	1.265	1 5/16	1 1/8	2 1/8	4 1/2	2	1 5/16	2 1/8

**** Ports, NPTF.***



No. 6FXC1



Stroke Length	Retracted Length	Rod Dia.	Bore Dia. 1½" Port Size	Item No.	Rod Dia.	2" Port Size	Item No.	Rod Dia.	2½" Port Size	Item No.	Rod Dia.	3" Port Size	Item No.
4"	12"	1"	#4 SAE	**6FDD0**	1¼"	#6 SAE	**6FDD8**	1½"	#8 SAE	**6FWT5**	1½"	#4 SAE	**6FWU9**
6"	14"	1"	#4 SAE	**6FDD1**	1¼"	#6 SAE	**6FDD9**	1½"	#8 SAE	**6FWT6**	1½"	#8 SAE	**6FWX0**
8"	16"	1"	#4 SAE	**6FDD2**	1¼"	#6 SAE	**6FDE0**	1½"	#8 SAE	**6FWT7**	1½"	#4 SAE	**6FWX1**
10"	18"	1"	#4 SAE	**6FDD3**	1¼"	#6 SAE	**6FDE1**	1½"	#8 SAE	**6FWT8**	1½"	#4 SAE	**6FWX2**
12"	20"	1"	#4 SAE	**6FDD4**	1¼"	#6 SAE	**6FDE2**	1½"	#8 SAE	**6FWT9**	1½"	#4 SAE	**6FWX3**
14"	22"	1"	#4 SAE	**6FDD5**	1¼"	#6 SAE	**6FDE3**	1½"	#8 SAE	**6FWU0**	1½"	#4 SAE	**6FWX4**
16"	24"	1"	#4 SAE	**6FDD6**	1¼"	#6 SAE	**6FDE4**	1½"	#8 SAE	**6FWU1**	1½"	#4 SAE	**6FWX5**
18"	26"	—	—	—	1¼"	#6 SAE	**6FDE5**	1½"	#8 SAE	**6FWU2**	1½"	#8 SAE	**6FWX6**
20"	28"	—	—	—	1¼"	#6 SAE	**6FDE6**	1½"	#8 SAE	**6FWU3**	1½"	#4 SAE	**6FWX7**
24"	32"	—	—	—	1¼"	#6 SAE	**6FDE7**	1½"	#8 SAE	**6FWU4**	1½"	#4 SAE	**6FWX8**
30"	38"	—	—	—	1¼"	#6 SAE	**6FWT1**	1½"	#8 SAE	**6FWU5**	1½"	#4 SAE	**6FWX9**
32"	40"	—	—	—	1¼"	#6 SAE	**6FWT2**	1½"	#8 SAE	**6FWU6**	1½"	#4 SAE	**6FWY0**
36"	44"	—	—	—	1¼"	#6 SAE	**6FWT3**	1½"	#8 SAE	**6FWU7**	1½"	#8 SAE	**6FWY1**
40"	48"	—	—	—	—	—	—	—	—	—	1½"	#8 SAE	**6FWY2**
48"	56"	—	—	—	—	—	—	—	—	—	1½"	#4 SAE	**6FWY3**

Stroke Length	Retracted Length	Rod Dia.	Bore Dia. 3½" Port Size	Item No.	Rod Dia.	4" Port Size	Item No.
4"	14"	1¾"	#8 SAE	**6FWY5**	2"	#8 SAE	**6FXA1**
6"	16"	1¾"	#8 SAE	**6FWY6**	2"	#8 SAE	**6FXA2**
8"	18"	1¾"	#8 SAE	**6FWY7**	2"	#8 SAE	**6FXA3**
10"	20"	1¾"	#8 SAE	**6FWY8**	2"	#8 SAE	**6FXA4**
12"	22"	1¾"	#8 SAE	**6FWY9**	2"	#8 SAE	**6FXA5**
14"	24"	1¾"	#8 SAE	**6FWZ0**	2"	#8 SAE	**6FXA6**
16"	26"	1¾"	#8 SAE	**6FWZ1**	2"	#8 SAE	**6FXA7**
18"	28"	1¾"	#8 SAE	**6FWZ2**	2"	#8 SAE	**6FXA8**
20"	30"	1¾"	#8 SAE	**6FWZ3**	2"	#8 SAE	**6FXA9**
24"	34"	1¾"	#8 SAE	**6FWZ4**	2"	#8 SAE	**6FXC0**
30"	40"	1¾"	#8 SAE	**6FWZ5**	2"	#8 SAE	**6FXC1**
32"	42"	1¾"	#8 SAE	**6FWZ6**	2"	#8 SAE	**6FXC2**
36"	46"	1¾"	#8 SAE	**6FWZ7**	2"	#8 SAE	**6FXC3**
40"	50"	1¾"	#8 SAE	**6FWZ8**	2"	#8 SAE	**6FXC4**
48"	58"	1¾"	#8 SAE	**6FWZ9**	2"	#8 SAE	**6FXC5**

Type	Item No.
Seal Kits	
For 1.5" Bore Welded Cylinder	**6FDD7**
For 2" Bore Welded Cylinder	**6FWT4**
For 2.5" Bore Welded Cylinder	**6FWU8**
For 3" Bore Welded Cylinder	**6FWY4**
For 3.5" Bore Welded Cylinder	**6FXA0**
For 4" Bore Welded Cylinder	**6FXC6**

MAXIM

Double-Acting Ag/Mobile Welded Cylinders

- Max. working pressure: 3000 psi
- Temp. range: 20° to 220°F

Cross-tube mounted cylinders feature ductile-iron pistons and precision-honed steel tubes, with Polypak rod seals and high-tensile strength chrome-plated tie rods. Black finish.

Dimensions (in.)

Bore Dia.	Pin Dia.	A	B	C	D	E
1½"	¾"	0.188	2.250	2.000	2.835	0.625
1½"	¾"	0.188	2.250	2.000	2.835	0.625
1½"	¾"	0.188	2.250	2.000	2.835	0.625
1½"	¾"	0.188	2.250	2.000	2.835	0.625
1½"	¾"	0.188	2.250	2.000	2.835	0.625
1½"	¾"	0.188	2.250	2.000	2.835	0.625
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2"	1"	0.188	2.756	2.251	2.649	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750

Dimensions (in.)

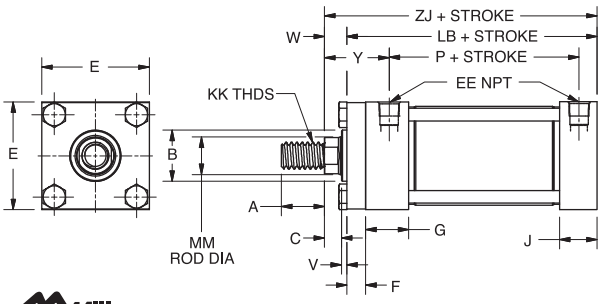
Bore Dia.	Pin Dia.	A	B	C	D	E
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
2½"	1"	0.188	3.236	2.251	2.645	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3"	1"	0.188	3.740	2.251	2.126	0.750
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000

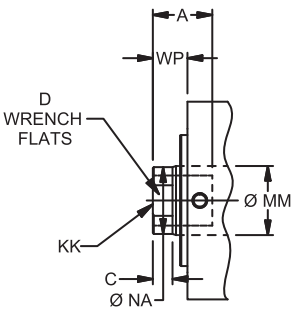
Dimensions (in.)

Bore Dia.	Pin Dia.	A	B	C	D	E
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
3½"	1¼"	0.219	4.236	2.244	3.862	1.000
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126
4"	1½"	0.250	4.740	2.500	3.728	1.126



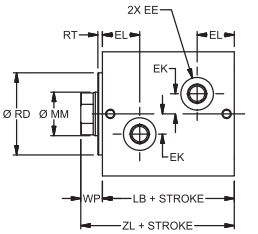
No. 4Z630

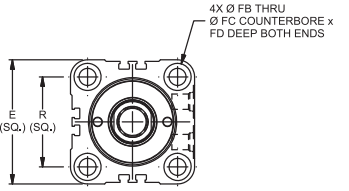






No. 2XKK7





Miller FLUID POWER

Hydraulic Cylinders

- Max. pressure: 2500 psi
- Temp. range: -20° to 160°F
- All-steel construction with black finish
- Modular mounting design

6", 8", 10", and 12" stroke cylinders have adjustable cushions on both ends. Piston rods are case hardened and hard chrome plated to resist mechanical damage. Urethane rod seal and nitrile piston seals are compatible with standard hydraulic fluids. Optional magnetic piston will actuate Position Sensors Nos. 4YRD6 or 4YRD7.

Note: Compact Hydraulic Cylinders available on Grainger.com®.

Bore Dia.	Dimensions (in.)															
	A	B	C	E	EE	F	G	J	KK	LB	MM	P	V	W	Y	ZJ
1½"	¾	1⅛	⅜	2½	½	⅜	1¾	1½	7/16-20	5	⅝	2⅞	¼	⅝	2	5⅝
2"	1⅛	1½	½	3	½	⅝	1¾	1½	¾-16	5¼	1	2⅞	¼	¾	2⅜	6
2½"	1⅛	1½	½	3½	½	⅝	1¾	1½	¾-16	5⅜	1	3	¼	¾	2⅜	6⅛
3¼"	1⅝	2	⅝	4½	¾	¾	2	1¾	1-14	6¼	1⅜	3½	¼	⅞	2¾	7⅛
4"	2	2⅜	¾	5	¾	⅞	2	1¾	1 ¼-12	6⅝	1¾	3¾	¼	1	3	7⅝

Bore Dia.	Stroke Length	REGULAR Item No.	WITH MAGNETIC PISTON Item No.
1½"	1"	4Z630	—
	2"	4Z631	—
	3"	4Z632	4YRA2
	4"	4Z633	4YRA3
	6"	4Z634	4YRA4
	8"	4Z635	4YRA5
2"	1"	4Z636	—
	2"	4Z637	—
	4"	4Z638	4YRA6
	6"	4Z639	4YRA7
	8"	4Z640	4YRA8
	10"	4Z641	4YRA9
2½"	1"	4Z642	—
	2"	4Z643	—
	4"	4Z644	4YRC1
	6"	4Z645	4YRC2
	8"	4Z646	4YRC3
	10"	4Z647	4YRC4

Bore Dia.	Stroke Length	REGULAR Item No.	WITH MAGNETIC PISTON Item No.
3¼"	2"	4Z648	—
	4"	4Z649	4YRC5
	6"	4Z650	4YRC6
	8"	4Z651	4YRC7
	10"	4Z652	4YRC8
	12"	4Z653	4YRC9
4"	2"	4Z654	—
	4"	4Z655	4YRD1
	6"	4Z656	4YRD2
	8"	4Z657	4YRD3
	10"	4Z658	4YRD4
	12"	4Z659	4YRD5

Function	Item No.
Position Sensors for Cylinders - Tie Rod Mounted	
Normally Open or Normally Closed PNP	4YRD6
Normally Open or Normally Closed NPN	4YRD7
Required Power Cord for Position Sensors, 16 ft.	
Power Supply/Signal Cordset	4YRD8

Bore Dia.	LUG MOUNT Item No.	FRONT OR REAR FLANGE Item No.	REAR CLEVIS Item No.	EYE BRACKET Item No.	ROD CLEVIS Item No.
Mounting Hardware					
1½"	1A330	1A329	1A331	1A344	1A345
2"	1A333	1A332	1A334	1A346	1A347
2½"	—	1A335	1A337	1A346	1A347
3¼"	—	1A338	1A340	1A348	1A349
4"	—	1A341	1A343	1A350	1A351

Miller FLUID POWER

Compact Hydraulic Cylinders

- Temp. range: -10° to 165°F
- Aluminum body and piston

Almost half the length of comparable bore and stroke tie rod construction products. Piloted rod gland with long bearing area allows precise alignment of cylinder and load center lines. Standard SAE O-ring ports make leak-free hydraulic line connections.

POSITIONING SENSORS

- Max. switching current: 100mA

Cost-effective alternative to machine-mounted switches for providing accurate indication of load position. Low-profile design keeps switch within compact cylinder body envelope. Solid-state switches use GMR technology to ensure precision, reducing hysteresis characteristics.

Bore Dia. (mm)	Dimensions (mm)																	
	MM	A	C	D	E	EE (SAE)	EK	EL	FB	FC	FD	KK	NA	R	RD f9	RT	WP	LB	ZL
20mm	12	10	6	10	43	#2	6	16.5	5.5	9.5	5.4	5/16-24	11	30	24	3	11	43	54
25mm	14	12	6	12	49	#2	8	17.5	5.5	9.5	5.4	⅜-24	13	36	27	3	11	45	56
32mm	18	15	8	15	62	#4	11	20.5	7	11	6.5	7/16-20	17	47	36	3	13	51	64
40mm	22	20	8	19	70	#4	12	21	9	14	8.6	⅝-18	21	52	43	3	13	55	68
50mm	28	24	9	24	80	#4	14	22.5	11	17.5	10.8	¾-16	27	58	53	3	14	60	74
63mm	36	30	11	32	94	#4	17	26	13.5	20	13	1-14	35	69	66	3	16	67	83

Bore Dia.	Stroke Length	Max. Pressure	Retracted Length	Mfr. Model	Item No.
20mm	10mm	2030 psi	64mm	20 TNCHE3T9A x 10.00	2XKK7
	25mm	2030 psi	79mm	20 TNCHE3T9A x 25.00	2XKK8
	50mm	2030 psi	104mm	20 TNCHE3T9A x 50.00	2XKK9
25mm	10mm	2030 psi	66mm	25 TNCHE3T9A x 10.00	2XKL1
	25mm	2030 psi	81mm	25 TNCHE3T9A x 25.00	2XKL2
	50mm	2030 psi	106mm	25 TNCHE3T9A x 50.00	2XKL3
32mm	10mm	2030 psi	74mm	32 TNCHE3T9A x 10.00	2XKL4
	25mm	2030 psi	89mm	32 TNCHE3T9A x 25.00	2XKL5
	50mm	2030 psi	114mm	32 TNCHE3T9A x 50.00	2XKL6
	80mm	2030 psi	144mm	32 TNCHE3T9A x 80.00	2XKL7
	100mm	2030 psi	164mm	32 TNCHE3T9A x 100.00	2XKL8
40mm	25mm	2030 psi	93mm	40 TNCHE3T9A x 25.00	2XKL9
	50mm	2030 psi	118mm	40 TNCHE3T9A x 50.00	2XKN1
	80mm	2030 psi	148mm	40 TNCHE3T9A x 80.00	2XKN2
	100mm	2030 psi	168mm	40 TNCHE3T9A x 100.00	2XKN3
50mm	25mm	1740 psi	99mm	50 TNCHE3T9A x 25.00	2XKN4
	50mm	1740 psi	124mm	50 TNCHE3T9A x 50.00	2XKN5
	80mm	1740 psi	154mm	50 TNCHE3T9A x 80.00	2XKN6
	100mm	1740 psi	174mm	50 TNCHE3T9A x 100.00	2XKN7
63mm	25mm	1450 psi	108mm	63 TNCHE3T9A x 25.00	2XKN8
	50mm	1450 psi	133mm	63 TNCHE3T9A x 50.00	2XKN9
	100mm	1450 psi	183mm	63 TNCHE3T9A x 100.00	2XKP1

Function	Switching Voltage	Mfr. Model	Item No.
Positioning Sensors, 20 to 63mm			
Solid State Switch			
Normally Open PNP	10 to 30VDC	P8S-GPFAX	2XKP2
Normally Open NPN	10 to 30VDC	P8S-GNFAX	2XKP3
Reed Switch			
Normally Open	10 to 30VDC	P8S-GRFAX	2XKP4

EATON | Aeroquip

High-Pressure Hose Assemblies

- Temp. range: -40° to 212°F
- 4:1 safety factor

These Eaton Aeroquip FC579 hydraulic hose assemblies are suitable for high-pressure applications and have crimped-on rubber strain relief on their ends that helps extend the hoses' life. They have an abrasion-resistant SBR (styrene-butadiene rubber) tube and cover and are reinforced with two layers of steel wire braids for strength. The hose exhibits low volumetric expansion under pressure, which helps maintain the efficiency of the hydraulic system. These hydraulic hose assemblies are used for hydraulic jacking applications with petroleum- and water-based fluids. They come with fittings installed on both ends and are ready to connect to compatible equipment. Meet or exceed EN857, type 28C.



FJIC x FJIC
No. 2F671



MNPT x MNPT
No. 2F681

Fitting Size	Hose I.D.	4 ft. Item No.	5 ft. Item No.	6 ft. Item No.	8 ft. Item No.	15" Item No.	24" Item No.	36" Item No.	9 ft. Item No.	10 ft. Item No.
FJIC x FJIC										
7/16" x 7/16"	1/4"	3F805	3F803	3F801	3F799	3F811	3F809	3F807	—	—
9/16" x 9/16"	3/8"	3F791	3F789	3F787	3F785	3F797	3F795	3F793	—	—
3/4" x 3/4"	1/2"	2F755	2F759	2F763	2F767	2F747	2F749	2F751	—	—
7/8" x 7/8"	1/2"	2F739	2F741	2F743	2F745	—	—	2F737	—	—
1 1/16" x 1 1/16"	3/4"	2F679	2F683	2F687	—	—	2F671	2F675	—	—
1 5/16" x 1 5/16"	1"	2F699	2F703	2F707	—	—	2F691	2F695	—	—
MNPT x MNPT										
1/4" x 1/4"	1/4"	2F717	2F719	2F721	2F723	2F711	2F713	2F715	—	—
1/4" x 1/4"	3/8"	2F729	2F733	2F735	—	—	2F725	2F727	—	—
3/8" x 3/8"	3/8"	4Z216	4Z217	—	4Z218	4Z214	4Z215	2F731	—	—
3/8" x 3/8"	1/2"	2F757	—	2F765	—	—	—	2F753	—	—
1/2" x 1/2"	1/2"	4Z208	4Z209	4Z210	4Z211	4Z205	4Z206	—	4Z212	4Z213
1/2" x 1/2"	1/2"	—	—	—	—	—	—	4Z207	—	—
3/4" x 3/4"	3/4"	2F681	2F685	2F689	—	—	2F673	2F677	—	—
1" x 1"	1"	2F701	2F705	2F709	—	—	2F693	2F697	—	—

Hose Inside Dia. (in.)	Female JIC Thread (in.)	Max. Operating psi	Min. Bend Radius (in.)	Wt. per Foot (lbs.)
JIC x JIC Hose Assembly Specifications				
1/4	7/16-20	5800	1.77	0.21
3/8	9/16-18	4800	2.5	0.27
1/2	3/4-16	4000	3.15	0.34
1/2	7/8-14	4000	3.15	0.34
3/4	1 1/16-12	3125	4.75	0.5
1	1 5/16-12	2400	6	0.71

Hose Inside Dia. (in.)	Male NPT Thread (in.)	Max. Operating psi	Min. Bend Radius (in.)	Wt. per Foot (lbs.)
NPT Hose Assembly Specifications				
1/4	1/4-18	5800	1.77	0.21
3/8	3/8-18	4800	2.5	0.27
1/2	1/2-14	4000	3.15	0.34
3/4	3/4-14	3125	4.75	0.5
1	1- 11 1/2	2400	6	0.71

ENERPAC

Thermoplastic Hose Assemblies

- 1/4" inside dia.
- Max. pressure: 10,000 psi
- 4:1 safety factor

Enerpac H700 hydraulic hose assemblies are designed to exhibit low volumetric expansion under pressure, which helps maintain the efficiency of the hydraulic system. They come with NPTF (National Pipe Taper Fuel) fittings installed on the ends of the hoses and are ready to connect to equipment. These hoses are used for transferring petroleum- and water-based fluids in hydraulic systems. They have crimped-on rubber strain relief on the ends of the hose that helps extend its life. These hoses have a thermoplastic tube and an abrasion-resistant polyurethane cover. They are reinforced with two layers of steel wire braids.



No. 46C579



No. 46C597



No. 46C598

Fitting Size	Hose I.D.	2 ft. Item No.	3 ft. Item No.	6 ft. Item No.	6 ft. 6" Item No.	10 ft. Item No.	20 ft. Item No.
C604 x NPTF							
3/8" x 3/8"	1/4"	—	—	46C597	—	—	—
CH604 x NPTF							
3/8" x 1/4"	1/4"	—	—	46C598	—	—	—
3/8" x 3/8"	1/4"	—	—	6BU60	—	18Y529	18Y530
F Coupler x M Coupler							
1/4" x 1/4"	1/4"	—	—	—	55PR28	—	3PCZ2
NPTF x NPTF							
3/8" x 3/8"	1/4"	46C579	46C580	46C581	—	46C582	46C583



No. 6BU58



No. 3KD65

ENERPAC

EATON | Aeroquip

10,000 PSI Hose Assemblies

- Max. pressure: 10,000 psi

All comply with Material Handling Institute IJ-100 hose specification. Dust caps included. All hoses, except No. 6BU60, 18Y529, and 18Y530 are rubber with black rubber external coating over 2 layers of steel wire braid. No. 6BU60 thermoplastic hose has a 4:1 safety factor and yellow polyurethane jacket. Use No. 3KD64 with Coupler No. 3KD28 (sold separately). Cylinder No. 6Z782 (sold separately on page 2468), and Hand Pump No. 6W461 (sold separately on page 2466).

Fitting Size	Hose I.D.	Hose Tube Material	Brand	6 ft. Item No.	10 ft. Item No.	15 ft. Item No.	20 ft. Item No.
CH604 x NPTF							
3/8" x 3/8"	1/4"	Rubber	Enerpac	6BU58	6BU59	—	2NWH9
3/8" x 3/8"	1/4"	Thermoplastic	Enerpac	6BU60	18Y529	—	18Y530
3/8" x 3/8"	3/8"	Rubber	Enerpac	46C604	46C605	—	46C606
M Coupler x M Coupler							
3/8" x 3/8"	1/4"	Rubber	Eaton Aeroquip	3KD66	—	—	—
MNPT x M Quick Disconnect							
3/8" x 3/8"	1/4"	Rubber	Eaton Aeroquip	3KD65	3KD67	3KD68	3KD69
NPTF x M Coupler							
1/4" x 1/4"	1/4"	Rubber	Eaton Aeroquip	3KD64	—	—	—
NPTF x NPTF							
3/8" x 3/8"	1/4"	Rubber	Enerpac	6BU56	6BU57	—	—
3/8" x 3/8"	3/8"	Rubber	Enerpac	—	46C592	—	—

MatchMate® Hose and Crimpable Fittings

EATON | Aeroquip

- Hose fittings are specific to the hose brand
- Synthetic rubber hose with 1-, 2-wire
- Temp. range: -40° to 212°F
- 4:1 safety factor

Hose has color-coded layline for easy identification and installation. Simply match ring symbols on hose to corresponding symbols on fittings, then match color of layline with color of dies to securely crimp hose and fittings. GH793 series also used with screw-together type fittings.

Note: Use Aeroquip® fittings with Aeroquip® hose. Crimping machines sold on page 2483.

Find more Hydraulic Hose, Fittings, and Adapters at Grainger.com®.

Max. Working Pressure @ 70°F	Hose I.D.	Hose Outside Dia.	Hose Length	Min. Bend Radius (in.)	Mfr. Model	Item No.
Hydraulic Bulk Hose						
1 Helical Wire Braid						
100 psi	2"	2 9/16"	25 ft.	6	FC619-32-25	**4VTN5**
1 Wire Braid						
1500 psi	1"	1/2"	50 ft.	12	GH663-16X50	**10C276**
1500 psi	1"	1 7/16"	150 ft.	12	GH663-16R150	**10C281**
2000 psi	3/4"	1 7/16"	50 ft.	9.5	GH663-12X50	**10C275**
2000 psi	3/4"	1 1/16"	250 ft.	9.5	GH663-12R250	**10C280**
2900 psi	1/2"	1 1/16"	50 ft.	7	GH663-8X50	**10C274**
2900 psi	1/2"	13/16"	250 ft.	7	GH663-8R250	**10C279**
3400 psi	3/8"	13/16"	50 ft.	5	GH663-6X50	**10C273**
3400 psi	3/8"	11/16"	250 ft.	5	GH663-6R250	**10C278**
3700 psi	1/4"	11/16"	50 ft.	4	GH663-4X50	**10C272**
3700 psi	1/4"	1/2"	250 ft.	4	GH663-4R250	**10C277**
2 Wire Braid						
2500 psi	1 1/4"	1 11/16"	50 ft.	8.25	GH781-20X50	**10C288**
3000 psi	1"	1 1/2"	50 ft.	12	GH793-16-50	**4VTL8**
3000 psi	1"	1 13/16"	150 ft.	12	GH793-16R150	**10C271**
3000 psi	1"	1 11/16"	50 ft.	6	GH781-16X50	**10C287**
3000 psi	1"	1 3/8"	150 ft.	6	GH781-16R150	**10C294**
3500 psi	3/4"	1 3/16"	50 ft.	9 1/2	GH793-12-50	**4VTL7**
3500 psi	3/4"	1 1/2"	250 ft.	9.5	GH793-12R250	**10C270**
3500 psi	3/4"	1 3/8"	50 ft.	4.75	GH781-12X50	**10C286**
3500 psi	3/4"	1 1/16"	250 ft.	4.75	GH781-12R250	**10C293**
4000 psi	5/8"	1"	50 ft.	8	GH793-10-50	**4VTL6**
4000 psi	5/8"	1 3/16"	250 ft.	8	GH793-10R250	**10C269**
4000 psi	5/8"	1 1/16"	50 ft.	4	GH781-10X50	**10C285**
4000 psi	5/8"	15/16"	250 ft.	4	GH781-10R250	**10C292**
4500 psi	1/2"	1"	50 ft.	3.5	GH781-8X50	**10C284**
4500 psi	1/2"	13/16"	250 ft.	3.5	GH781-8R250	**10C291**
5000 psi	1/2"	7/8"	50 ft.	7	GH793-8-50	**4VTL5**
5000 psi	1/2"	9/16"	250 ft.	7	GH793-8R250	**10C268**
5300 psi	3/8"	13/16"	50 ft.	2.5	GH781-6X50	**10C283**
5300 psi	3/8"	11/16"	250 ft.	2.5	GH781-6R250	**10C290**
5800 psi	3/8"	3/4"	50 ft.	5	GH793-6-50	**4VTL4**
5800 psi	3/8"	7/8"	250 ft.	5	GH793-6R250	**10C267**
6500 psi	1/4"	5/8"	50 ft.	4	GH793-4-50	**4VTL3**
6500 psi	1/4"	3/4"	250 ft.	4	GH793-4R250	**10C266**
6500 psi	1/4"	11/16"	50 ft.	2	GH781-4X50	**10C282**
6500 psi	1/4"	1/2"	250 ft.	2	GH781-4R250	**10C289**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel 45° Elbow					
	1/4"	7/16"-20	1.78	1AA4FJA4	**4VTZ9**
	1/4"	1/2"-20	2.04	1AA5FJA4	**4VUA1**
	1/4"	9/16"-18	2.09	1AA6FJA4	**4VUA2**
	3/8"	9/16"-18	2.31	1AA6FJA6	**4VUA3**
	1/2"	3/4"-16	2.82	1AA8FJA8	**4VUA4**
	1/2"	7/8"-14	3.03	1AA10FJA8	**4VUA5**
	5/8"	7/8"-14	2.94	1AAA10FJA10	**10C372**
	3/4"	1 1/16"-12	3.43	1AA12FJA12	**4VUA6**
	1"	1 5/16"-12	3.74	1AA16FJA16	**4VUA7**
Female JIC Swivel 90° Elbow					
	1/4"	7/16"-20	1.84	1AA4FJB4	**4VUA8**
	1/4"	1/2"-20	1.92	1AA5FJB4	**4VUA9**
	1/4"	9/16"-18	2.00	1AA6FJB4	**4VUC1**
	3/8"	9/16"-18	2.21	1AA6FJB6	**4VUC2**
	3/8"	3/4"-16	2.42	1AA8FJB6	**4VUC3**
	1/2"	3/4"-16	2.59	1AA8FJB8	**4VUC4**
	1/2"	7/8"-14	2.78	1AA10FJB8	**4VUC5**
	5/8"	7/8"-14	2.7	1AA10FJB10	**10C373**
	3/4"	1 1/16"-12	3.36	1AA12FJB12	**4VUC6**
	3/4"	1 5/16"-12	3.37	1AA16FJB12	**4VUC7**
	1"	1 5/16"-12	3.56	1AA16FJB16	**4VUC8**
	1 1/4"	1 5/8"-12	4.25	1AA20FJB20	**14L766**
	1 1/2"	1 7/8"-12	4.63	1AA24FJB24	**14L757**
Female JIC Swivel Straight					
	1/4"	7/16"-20	2.00	1AA4FJ4	**4VUC9**
	1/4"	1/2"-20	1.98	1AA5FJ4	**4VUD2**
	1/4"	9/16"-18	2.03	1AA6FJ4	**4VUD3**
	3/8"	7/16"-20	2.19	1AA4FJ6	**4VUD1**
	3/8"	9/16"-18	2.28	1AA6FJ6	**4VUD4**
	3/8"	3/4"-16	2.31	1AA8FJ6	**4VUD6**
	1/2"	9/16"-18	2.28	1AA6FJ8	**4VUD5**
	1/2"	3/4"-16	2.63	1AA8FJ8	**4VUD7**
	1/2"	7/8"-14	2.64	1AA10FJ8	**4VUD8**
	1/2"	1 1/16"-12	2.73	1AA12FJ8	**4VUD9**
	5/8"	7/8"-14	2.77	1AA10FJ10	**10C371**
	3/4"	1 1/16"-12	2.84	1AA12FJ12	**4VUE1**
	3/4"	1 5/16"-12	2.91	1AA16FJ12	**4VUE2**
	1"	1 5/16"-12	3.29	1AA16FJ16	**4VUE3**
	1 1/4"	1 5/8"-12	3.61	1AA20FJ20	**10C265**
Male JIC Straight					
	1/4"	7/16"-20	2.00	1AA4MJ4	**4VUN2**
	3/8"	9/16"-18	2.16	1AA6MJ6	**4VUN3**
	3/8"	3/4"-16	2.10	1AA8MJ6	**4VUN4**
	1/2"	3/4"-16	2.57	1AA8MJ8	**4VUN5**
	1/2"	7/8"-14	2.42	1AA10MJ8	**4VUN6**
	5/8"	7/8"-14	2.73	1AA10MJ10	**10C374**
	3/4"	1 1/16"-12	2.94	1AA12MJ12	**4VUN7**
	1"	1 5/16"-12	3.25	1AA16MJ16	**4VUN8**



	Fitting Shape	Hydraulic Hose I.D.	Hydraulic Flange Size	L (in.)	Mfr. Model	Item No.
Crimp, Code 61 Flange						
	45° Elbow	1"	1"	4.35	1A16FLA16	**4KFL5**
	90° Elbow	1"	1"	4.22	1A16FLB16	**4KFL6**
	Straight	1"	1"	3.49	1A16FL16	**4KFL9**
Barb, Code 61 Flange						
	45° Elbow	2"	2"	7.49	1S32FLA32	**4KFL7**
	90° Elbow	2"	2"	7.47	1S32FLB32	**4KFL8**
	Straight	2"	2"	4.61	1S32FL32	**4KFN1**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female NPT Straight					
	1/4"	1/4"-18	2.87	1AA4PF4	**4VUF3**
	3/8"	3/8"-18	2.97	1AA6PF6	**4VUF7**
	1/2"	1/2"-14	3.58	1AA8PF8	**4VUG1**
	3/4"	3/4"-14	3.63	1AA12PF12	**4VUG4**
Male NPT Straight					
	1/4"	1/8"-27	1.84	1AA2MP4	**4VUL2**
	1/4"	1/4"-18	2.06	1AA4MP4	**4VUL3**
	1/4"	3/8"-18	1.90	1AA6MP4	**4VUL4**
	1/4"	1/4"-18	2.54	1AA4PS4	**4VUK4**
	3/8"	3/8"-18	2.27	1AA6MP6	**4VUL5**
	3/8"	1/2"-14	2.27	1AA8MP6	**4VUL7**
	3/8"	3/8"-18	2.66	1AA6PS6	**4VUK5**
	3/8"	1/2"-14	2.85	1AA8PS6	**4VUK7**
	1/2"	3/8"-18	2.49	1AA6MP8	**4VUL6**
	1/2"	1/2"-14	2.74	1AA8MP8	**4VUL8**
	1/2"	3/8"-18	2.88	1AA6PS8	**4VUK6**
	1/2"	1/2"-14	3.13	1AA8PS8	**4VUK8**
	5/8"	1/2"-14	2.74	1AA8MP10	**10C378**
	3/4"	3/4"-14	2.84	1AA12MP12	**4VUL9**
	3/4"	3/4"-14	3.24	1AA12PS12	**4VUK9**
	1"	1"-11-1/2	3.22	1AA16MP16	**4VUN1**
	1"	1"-11-1/2	3.88	1AA16PS16	**4VUL1**
	1 1/4"	1 1/4"-11-1/2	3.52	1AA20MP20	**10C264**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female ORS 45° Elbow					
	1/4"	9/16"-18	2.12	1AA4FRA4	**4VUH3**
	1/4"	1 1/16"-16	2.30	1AA6FRA4	**4VUH4**
	3/8"	1 1/16"-16	2.43	1AA6FRA6	**4VUH5**
	3/8"	1 3/16"-16	2.74	1AA8FRA6	**4VUH6**
	1/2"	1 3/16"-16	2.96	1AA8FRA8	**4VUH7**
	1/2"	1"-14	3.18	1AA10FRA8	**4VUH8**
	5/8"	1"-14	3.05	1AA10FRA10	**10C376**
	3/4"	1 3/16"-12	3.57	1AA12FRA12	**4VUH9**
	1"	1 7/16"-12	4.23	1AA16FRA16	**4VUJ1**
Female ORS 90° Elbow					
	1/4"	9/16"-18	2.09	1AA4FRB4	**4VUJ2**
	1/4"	1 1/16"-16	2.22	1AA6FRB4	**4VUJ4**
	3/8"	9/16"-18	2.21	1AA4FRB6	**4VUJ3**
	3/8"	1 1/16"-16	2.34	1AA6FRB6	**4VUJ5**
	3/8"	1 3/16"-16	2.62	1AA8FRB6	**4VUJ7**
	1/2"	1 1/16"-16	2.56	1AA6FRB8	**4VUJ6**
	1/2"	1 3/16"-16	2.84	1AA8FRB8	**4VUJ8**
	1/2"	1"-14	3.07	1AA10FRB8	**4VUJ9**
	5/8"	1"-14	3.07	1AA10FRB10	**10C377**
	3/4"	1 3/16"-12	3.49	1AA12FRB12	**4VUK1**
	3/4"	1 7/16"-12	4.04	1AA16FRB12	**4VUK2**
	1"	1 7/16"-12	4.22	1AA16FRB16	**4VUK3**
Female ORS Straight					
	1/4"	9/16"-18	1.95	1AA4FR4	**4VUF2**
	1/4"	1 1/16"-16	2.04	1AA6FR4	**4VUF4**
	3/8"	1 1/16"-16	2.23	1AA6FR6	**4VUF5**
	3/8"	1 3/16"-16	2.32	1AA8FR6	**4VUF8**
	1/2"	1 1/16"-16	2.51	1AA6FR8	**4VUF6**
	1/2"	1 3/16"-16	2.67	1AA8FR8	**4VUF9**
	1/2"	1"-14	2.64	1AA10FR8	**4VUG2**
	5/8"	1"-14	2.76	1AA10FR10	**10C375**
	3/4"	1 3/16"-12	1.72	1AA12FR12	**4VUG3**
	3/4"	1 7/16"-12	2.98	1AA16FR12	**4VUG6**
	1"	1 3/16"-12	3.22	1AA12FR16	**4VUG5**
	1"	1 7/16"-12	3.29	1AA16FR16	**4VUG7**

EATON Synflex®
Hose and Crimpable Fittings

- Hose fittings are specific to the hose brand
- 4:1 safety factor
- Temp. range: -40° to 212°F

Lightweight and easy-to-route hose is made of nylon tube with polyurethane cover and braided synthetic fiber reinforcement. Fittings are steel with RoHS trivalent chromium zinc plating.

	Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Min. Bend Radius (in.)	Mfr. Model	Item No.
Synflex® Hose							
	¼	0.51	50	3000	1¼	3130-04-50	**4VTK8**
	5/16	0.59	50	2500	1¾	3130-05-50	**4VTK9**
	⅜	0.67	50	2250	2	3130-06-50	**4VTL1**
	½	0.82	50	2000	3	3130-08-50	**4VTL2**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel, Straight					
	¼ in	7/16"-20	2.53	90304-045400	**4VUE4**
	¼ in	½"-20	2.53	90304-055400	**4VUE5**
	¼ in	9/16"-18	2.54	90304-065500	**4VUE6**
	5/16 in	½"-20	2.53	90305-055400	**4VUE7**
	5/16 in	9/16"-18	2.54	90305-065500	**4VUE8**
	⅜ in	9/16"-18	2.82	90306-065500	**4VUE9**
	½ in	¾"-16	3.15	90308-085400	**4VUF1**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female ORS, Straight					
	¼ in	9/16"-18	2.60	90304-044000	**4VUG8**
	5/16 in	11/16"-16	2.67	90305-064000	**4VUG9**
	⅜ in	11/16"-16	2.69	90306-064000	**4VUH1**
	½ in	13/16"-16	3.06	90308-084000	**4VUH2**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Male NPT, Straight					
	¼ in	¼"-18	2.30	90304-041000	**4VUN9**
	5/16 in	¼"-18	2.30	90305-041000	**4VUP1**
	⅜ in	¼"-18	2.59	90306-041000	**4VUP2**
	⅜ in	⅜"-18	2.59	90306-061000	**4VUP3**
	½ in	½"-14	3.03	90308-081000	**4VUP4**



No. 10C379



No. 35Z762

EATON | Aeroquip
Hydraulic Crimping Machines

- 5 tons of force
- Max. pressure: 10,000 psi

Lightweight, portable crimping devices crimp MatchMate® hose and fittings sold on page 2482, as well as Synflex® hose and fittings sold on page 2483. 1- and 2-wire, ¼" to 1¼" I.D. hose capacity, except No. 35Z762 crimps hose styles from 3/16" through 2" I .D. including 4- and 6-spiral wire crimp-style fittings. All models feature positive stop crimping.

Note: Machine Nos. 4YNW9 and 33N457 require 10,000 psi pump, available on page 2466, and hose, available on page 2481.

Note: For Collet and Die Kits, see Grainger.com®

Crimping Machine, No. 35Z762 —Model has front-end loading design, electronic keypad control for crimp diameter, drop-in tooling (crimp die cages), power return stroke, return limit control, and backstop fitting locator.

Includes	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Crimping Machines without Pump					
Machine Only, No Tooling	22	16	14	ET1000-001	**4YNW9**
Crimping Machines with Pump					
8 Matchmate Dies, Manual, And Lubricant	28½	12¾	25¾	FT1380-115-8	**10C379**
Machine, Pump and Dies	49	29	28	FT1390-115-12	**35Z762**

MatchMate® 4-Wire Hose and Crimpable Fittings
EATON | Aeroquip

- Hose fittings are specific to the hose brand
- 4:1 safety factor
- Synthetic rubber hose with 4-wire spiral reinforcement
- Temp. range: -40° to 250°F

For hydraulic system service with petroleum and water-based fluids and general industrial use.

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Min. Bend Radius (in.)	Mfr. Model	Item No.
Bulk Hose						
½	.92	50	6000	3.5	GH493-8	**10C232**
¾	1.2	50	5500	4	GH493-12	**10C233**
1	1.48	50	5100	6	GH493-16	**10C234**
1¼	1.83	50	4500	8.25	GH493-20	**10C235**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC					
	½ in	¾"-16	2.63	4SA8FJ8	**471Z43**
	½ in	¾"-16	3.30	4SA8FJA8	**471Z55**
	½ in	¾"-16	2.87	4SA8FJB8	**471Z61**
	¾ in	1 1/16"-12	3.23	4SA12FJ12	**471Z49**
	¾ in	1 1/16"-12	4.42	4SA12FJA12	**471Z58**
	¾ in	1 1/16"-12	3.99	4SA12FJB12	**471Z65**
	1 in	1 5/16"-12	3.51	4SA16FJ16	**471Z51**
	1 in	1 5/16"-12	5.07	4SA16FJA16	**471Z59**
	1 in	1 5/16"-12	4.45	4SA16FJB16	**471Z66**
Female JIC Swivel					
	1 ¼ in	1⅝"-12	4	4SA20FJ20	**46AC95**
	1 ¼ in	1⅝"-12	3.20	4SA20FJA20	**46AC96**
	1 ¼ in	1⅝"-12	5.20	4SA20FJB20	**46AC97**
Male NPTF					
	½ in	½"-14	2.75	4SA8MP8	**471Z33**
	¾ in	¾"-14	3.38	4SA12MP12	**471Z36**
	1 in	1"-11-1/2	3.70	4SA16MP16	**471Z39**
	1 ¼ in	1¼"-11-1/2	4.71	4SA20MP20	**471Z40**
Male Universal					
	½ in	0.511"-27	2.87 in	4S8FLB8	**471Z93**
	½ in	—	3.13	4S8FLA8	**471Z83**
	¾ in	0.511"-27	4.27 in	4S12FLB12	**471Z97**
	¾ in	—	3.57	4S12FL12	**471Z75**
	1 in	—	4.96	4S16FLB16	**471Z98**
	1 in	—	3.67	4S16FL16	**471Z78**
	1 in	—	5.16	4S16FLA16	**471Z88**
	1 ½ in	—	8.44	4S24FLA24	**471Z91**

Parker

Hose and Crimpable Hydraulic Fittings

Fittings ensure leak-free operation and longer life. Ideal for repairing or creating new hydraulic hose lines. Parker Hose use only Parker Fittings.

Note: Find additional types and sizes on Grainger.com®.

	Hose Length (ft.)	Hose Inside Dia. (in.)	Min. Bend Radius (in.)	Operating Pressure (psi)	Mfr. Model	Item No.
Bulk Hydraulic Hoses, 50 ft.						
	50	¼	4	5800	302-4-BX	**21A745**
	50	⅜	5	4750	302-6-BX	**21A746**
	50	½	7	4000	302-8-BX	**21A747**
	50	⅝	8	3600	302-10-BX	**21A748**
	50	¾	9½	3100	302-12-BX	**21A749**
	50	1	12	2400	302-16-BX	**21A750**
	50	1¼	16½	1800	302-20	**21A751**

	L (ft.)	Hose ID (in.)	Max. Operating (psi)	Mfr. Model	Item No.
Hydraulic Tough Cover Hose					
	50	0.25"	3000	451TC-4-BX	**24Y864**
		⅜	3000	451TC-6-BX	**24Y866**
		½	3000	451TC-8-BX	**24Y868**
		⅝	3000	451TC-10-BX	**24Y870**
		¾	3000	451TC-12-BX	**24Y872**
		1	3000	451TC-16-BX	**24Y874**
	135	1	3000	451TC-16-RL	**39K886**
	250	¾	3000	451TC-12-RL	**39K885**
	300	⅝	3000	451TC-10-RL	**39K884**
	350	⅜	3000	451TC-6-RL	**39K882**
	425	½	3000	451TC-8-RL	**39K883**
	475	¼	3000	451TC-4-RL	**39K881**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel, 45° Elbow					
	¼ in	7/16"-20	1.96	13743-4-4	**21A769**
		½"-20	2.19	13743-5-4	**21A770**
		9/16"-18	2.23	13743-6-4	**21A771**
	⅜ in	9/16"-18	2.39	13743-6-6	**21A772**
		¾"-16	2.74	13743-8-6	**21A773**
	½ in	¾"-16	2.83	13743-8-8	**21A774**
		⅞"-14	2.93	13743-10-8	**21A775**
	⅝ in	⅞"-14	3.17	13743-10-10	**21A776**
	¾ in	1 1/16"-12	3.63	13743-12-12	**21A777**
	1 in	1 5/16"-12	4.34	13743-16-16	**21A778**
	1 ¼ in	1⅝"-12	4.59	13743-20-20	**21A779**
Female JIC Swivel, 90° Elbow					
	¼ in	7/16"-20	1.78	13943-4-4	**21A780**
		½"-20	1.88	13943-5-4	**21A781**
		9/16"-18	2.12	13943-6-4	**21A782**
	⅜ in	9/16"-18	2.21	13943-6-6	**21A783**
		¾"-16	2.52	13943-8-6	**21A784**
	½ in	¾"-16	2.62	13943-8-8	**21A785**
		⅞"-14	2.74	13943-10-8	**21A786**
	⅝ in	⅞"-14	2.97	13943-10-10	**21A787**
	¾ in	1 1/16"-12	3.49	13943-12-12	**21A788**
	1 in	1 5/16"-12	4.28	13943-16-16	**21A789**
	1 ¼ in	1⅝"-12	4.43	13943-20-20	**21A790**
Female JIC Swivel, Straight					
	¼ in	7/16"-20	1.94	10643-4-4	**21A752**
		½"-20	2.03	10643-5-4	**21A753**
		9/16"-18	2.05	10643-6-4	**21A754**
	⅜ in	7/16"-20	2.20	10643-4-6	**21A755**
		9/16"-18	2.29	10643-6-6	**21A756**
		¾"-16	2.49	10643-8-6	**21A757**
	½ in	9/16"-18	2.51	10643-6-8	**21A758**
		¾"-16	2.63	10643-8-8	**21A759**
		⅞"-14	2.85	10643-10-8	**21A760**
		1 1/16"-12	2.78	10643-12-8	**21A761**
	⅝ in	⅞"-14	2.93	10643-10-10	**21A762**
		1 1/16"-12	3.10	10643-12-10	**21A763**
	¾ in	1 1/16"-12	3.17	10643-12-12	**21A764**
		1 5/16"-12	3.31	10643-16-12	**21A765**
	1 in	1 5/16"-12	3.62	10643-16-16	**21A766**
		1⅝"-12	3.81	10643-20-16	**21A767**
	1 ¼ in	1⅝"-12	3.94	10643-20-20	**21A768**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Male JIC, Straight					
	¼ in	7/16"-20	1.99	10343-4-4	**21A791**
		½"-20	1.83	10343-5-4	**21A792**
		9/16"-18	1.84	10343-6-4	**21A793**
	⅜ in	9/16"-18	2.36	10343-6-6	**21A794**
		¾"-16	2.30	10343-8-6	**21A795**
	½ in	¾"-16	2.68	10343-8-8	**21A796**
		⅞"-14	2.62	10343-10-8	**21A797**
	⅝ in	⅞"-14	3.03	10343-10-10	**21A798**
		1 1/16"-12	3.07	10343-12-10	**21A799**
	¾ in	1 1/16"-12	3.19	10343-12-12	**21A801**
		1 5/16"-12	3.04	10343-16-12	**21A802**
	1 in	1 5/16"-12	3.63	10343-16-16	**21A803**
	1 ¼ in	1⅝"-12	3.96	10343-20-20	**21A804**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female NPT, Straight					
	¼ in	¼"-18	1.78	10243-4-4	**21A805**
	⅜ in	⅜"-18	2.32	10243-6-6	**21A806**
	½ in	½"-14	2.62	10243-8-8	**21A807**
	¾ in	¾"-14	2.72	10243-12-12	**21A808**
Female ORS, 45° Elbow					
	¼ in	9/16"-18	1.97	1J743-4-4	**21A837**
		11/16"-16	2.08	1J743-6-4	**21A838**
	⅜ in	11/16"-16	2.34	1J743-6-6	**21A839**
		13/16"-16	2.53	1J743-8-6	**21A840**
	½ in	13/16"-16	2.83	1J743-8-8	**21A841**
		1"-14	2.93	1J743-10-8	**21A842**
	⅝ in	1"-14	3.17	1J743-10-10	**21A843**
	¾ in	1 3/16"-12	3.63	1J743-12-12	**21A844**
	1 in	1 7/16"-12	4.38	1J743-16-16	**21A845**
	1 ¼ in	1 11/16"-12	4.78	1J743-20-20	**21A846**
Female ORS, 90° Elbow					
	¼ in	9/16"-18	1.78	1J943-4-4	**21A847**
		11/16"-16	1.93	1J943-6-4	**21A848**
	⅜ in	11/16"-16	2.21	1J943-6-6	**21A849**
		13/16"-16	2.28	1J943-8-6	**21A850**
	½ in	13/16"-16	2.59	1J943-8-8	**21A851**
		1"-14	2.74	1J943-10-8	**21A852**
	⅝ in	1"-14	2.97	1J943-10-10	**21A853**
		1 3/16"-12	3.49	1J943-12-10	**21A854**
	¾ in	1 3/16"-12	3.06	1J943-12-12	**21A855**
	1 in	1 7/16"-12	4.31	1J943-16-16	**21A856**
	1 ¼ in	1 11/16"-12	4.88	1J943-20-20	**21A857**
Female ORS, Straight					
	¼ in	9/16"-18	2.07	1JS43-4-4	**21A826**
		11/16"-16	2.14	1JS43-6-4	**21A827**
	⅜ in	11/16"-16	2.28	1JS43-6-6	**21A828**
		13/16"-16	2.53	1JS43-8-6	**21A829**
	½ in	13/16"-16	2.65	1JS43-8-8	**21A830**
		1"-14	2.89	1JS43-10-8	**21A831**
	⅝ in	1"-14	3.07	1JS43-10-10	**21A832**
		1 3/16"-12	3.19	1JS43-12-10	**21A833**
	¾ in	1 3/16"-12	3.31	1JS43-12-12	**21A834**
	1 in	1 7/16"-12	3.62	1JS43-16-16	**21A835**
	1 ¼ in	1 11/16"-12	3.77	1JS43-20-20	**21A836**
Flange Code 61, 45° Elbow					
	¾ in	—	3.85	11743-12-12	**21A861**
	1 in	—	4.76	11743-16-16	**21A862**
	1 ¼ in	—	5.61	11743-20-20	**21A863**
Flange Code 61, 90° Elbow					
	¾ in	—	3.51	11943-12-12	**21A864**
	1 in	—	4.28	11943-16-16	**21A865**
	1 ¼ in	—	5.12	11943-20-20	**21A866**
Flange Code 61, Straight					
	¾ in	—	3.54	11543-12-12	**21A858**
	1 in	—	4.25	11543-16-16	**21A859**
	1 ¼ in	—	4.70	11543-20-20	**21A860**
Male NPT, Straight					
	¼ in	⅛"-27	1.80	10143-2-4	**21A809**
		¼"-18	2.01	10143-4-4	**21A810**
		¼"-18	2.68	11343-4-4	**21A820**
	⅜ in	¼"-18	2.28	10143-4-6	**21A811**
		⅜"-18	2.37	10143-6-6	**21A812**
		½"-14	2.39	10143-8-6	**21A813**
	½ in	⅜"-18	3.08	11343-6-6	**21A821**
		½"-14	3.30	11343-8-6	**21A822**
		½"-14	2.84	10143-8-8	**21A814**
		½"-14	3.52	11343-8-8	**21A823**
	⅝ in	½"-14	3.04	10143-8-10	**21A815**
		¾"-14	2.87	10143-12-10	**21A816**
	¾ in	¾"-14	3.09	10143-12-12	**21A817**
		¾"-14	3.93	11343-12-12	**21A824**
	1 in	1"-11-1/2	2.59	10143-16-16	**21A818**
	1 ¼ in	1¼"-11-1/2	4.08	10143-20-20	**21A819**
	1 in	1"-11-1/2	4.52	11343-16-16	**21A825**



No. 21A867



No. 21A868

Parker

Hose Crimp Machines

30 ton max. crimping force. Up to 1¼" hose capacity.
Crimping tool dies are available on Grainger.com.

Description	Includes	Mfr. Model	Item No.
Without Pump			
Portable, 12"D x 30H" x 15"W	10,000 psi Pump Nut, Crimp Head, Silver Die Ring, Black Die Ring, Hose Assembly, Stand Assembly	82C-061L	**21A867**
With Pump			
Bench Mount, 20"D x 25H" x 26"W	Crimp Head, Bench Power Unit Assembly, Silver Die Ring, Black Die Ring, 115/230V Power Unit	80C-061	**21A868**

EATON | Aeroquip

FC300 Hose and Reusable Fittings

- Hose fittings are specific to hose brand
- 4:1 safety factor
- Temp. range: -55° to 300°F
- Screw-together reusable type fittings

Hose transfers oil, air, gasoline, fuel oils, lubricating oils, and fire-resistant hydraulic fluids. Aeroquip elastomer tube, polyester inner braid, and single-wire braid reinforcement with blue polyester braid cover.

Note: Reusable fittings fit FC300 hose only.

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Vacuum Rating (in. Hg)	Min. Bend Radius (in.)	Mfr. Model	Item No.
FC300 Hose, SAE 100R5							
3/16	0.52	25	3000	28	3	FC300-04-25	**2F611**
1/4	0.58	25	3000	28	3 3/8	FC300-05-25	**4VTL9**
5/16	0.67	25	2250	28	4	FC300-06-25	**2F613**
13/32	0.76	25	2000	28	4 5/8	FC300-08-25	**2F615**
1/2	0.93	25	1750	28	5 1/2	FC300-10-25	**4VTN1**
5/8	1.08	25	1500	28	6 1/2	FC300-12-25	**4VTN2**
7/8	1.27	25	800	20	7 3/8	FC300-16-25	**4VTN3**
1 1/8	1.50	25	625	15	9	FC300-20-25	**4VTN4**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel, 45° Elbow				
5/16 in	9/16"-18	2.23	190265-6S	**4VUP5**
7/8 in	1 5/16"-12	3.74	190265-16S	**4VUP6**
Female JIC Swivel, 90° Elbow				
3/16 in	7/16"-20	1.74	190296-4S	**2F285**
5/16 in	9/16"-18	2.13	190261-6S	**2F281**
5/16 in	9/16"-18	2.13	190260-6S	**4KFG3**
13/32 in	3/4"-16	2.76	190296-8S	**2F287**
1/2 in	7/8"-14	2.94	190296-10S	**2F283**
5/8 in	1 1/16"-12	3.74	190261-12S	**4KFF7**
5/8 in	1 1/16"-12	3.74	190260-12S	**4KFG4**
7/8 in	1 5/16"-12	3.55	190261-16S	**4KFF8**
7/8 in	1 5/16"-12	3.55	190260-16S	**4KFG5**
Female JIC Swivel, Straight				
1/4 in	7/16"-20	1.97	4411-4S	**2F513**
1/4 in	1/2"-20	2.12	4411-5s	**4KFH2**
5/16 in	9/16"-18	2.33	4411-6S	**2F515**
5/16 in	3/4"-16	2.42	4411-8-6s	**4KFH4**
13/32 in	9/16"-18	2.68	4411-6-8S	**4KFH3**
13/32 in	3/4"-16	2.78	4411-8S	**2F517**
13/32 in	7/8"-14	2.95	4411-10-8S	**4KFH5**
1/2 in	7/8"-14	3.10	4411-10S	**2F511**
5/8 in	1 1/16"-12	3.49	4411-12S	**4KFH6**
7/8 in	1 5/16"-12	3.19	4411-16S	**4KFH7**
1 1/8 in	1 5/8"-12	3.43	4411-20S	**4KFH8**
Female Universal Swivel, 45° Elbow				
3/16 in	7/16"-20	1.85	190297-4S	**4KFF1**
1/4 in	1/2"-20	2.07	190297-5S	**4KFF2**
13/32 in	3/4"-16	2.99	190297-8S	**4KFF3**
1/2 in	7/8"-14	3.24	190297-10S	**4KFF4**
Female Universal Swivel, 90° Elbow				
3/16 in	7/16"-20	1.74	190295-4S	**4KFG6**
1/4 in	1/2"-20	1.96	190296-5S	**4KFF9**
13/32 in	3/4"-16	2.88	190295-8S	**4KFG7**
1/2 in	7/8"-14	3.19	190295-10S	**4KFN8**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female SAE Swivel, 45° Elbow				
5/16 in	5/8"-18	2.23	190299-6S	**4KFF5**
5/8 in	1 1/16"-14	3.78	190299-12S	**4KFF6**
Female SAE Swivel, 90° Elbow				
5/16 in	5/8"-18	2.13	190302-6S	**4KFG1**
5/16 in	5/8"-18	2.13	190301-6S	**4KFG8**
5/8 in	1 1/16"-14	3.74	190301-12S	**4KFG9**
7/8 in	1 1/16"-14	3.74	190302-12S	**4KFG2**
Female SAE Swivel, Straight				
5/16 in	7/16"-20	1.97	4401-4S	**2F505**
5/16 in	5/8"-18	2.36	4401-6S	**2F507**
13/32 in	3/4"-16	2.78	4401-8S	**2F509**
1/2 in	7/8"-14	3.10	4401-10S	**2F503**
5/8 in	1 1/16"-14	3.49	4401-12S	**4KFH1**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Male NPT, Straight				
3/16 in	1/8"-27	1.68	4412-2-4S	**2F519**
3/16 in	1/4"-18	1.87	4412-4-4S	**2F521**
1/4 in	1/4"-18	1.96	4412-4-5s	**4KFK1**
5/16 in	1/4"-18	2.13	4412-4-6S	**2F523**
3/8 in	3/8"-18	2.13	4412-6-6S	**2F525**
13/32 in	3/8"-18	2.48	4412-6-8S	**2F527**
13/32 in	1/2"-14	2.73	4412-8-8S	**2F531**
1/2 in	1/2"-14	2.88	4412-8-10S	**2F529**
5/8 in	1/2"-14	3.24	4412-8-12s	**4KFK2**
5/8 in	3/4"-14	3.24	4412-12-12s	**4KFK3**
7/8 in	1"-11-1/2	2.99	412-16-16s	**4KFK4**
1 1/8 in	1 1/4"-11-1/2	3.23	412-20-20s	**4KFK5**
Male SAE, Straight				
3/16 in	7/16"-24	2.46	190111-4S	**4KFK8**
1/4 in	1/2"-20	2.62	190111-5S	**4KFK9**
5/16 in	1/2"-20	2.72	190111-5-6S	**4KFL1**
5/16 in	5/8"-18	2.72	190111-6S	**4KFL2**
13/32 in	5/8"-18	3.13	190111-6-8S	**4KFL3**
13/32 in	3/4"-18	3.20	190111-8S	**4KFL4**
Male SAE Swivel, 45° Elbow				
3/16 in	7/16"-24	2.74	190371-4S	**4KFH9**
1/4 in	1/2"-20	2.90	190371-5S	**4KFJ1**
5/16 in	5/8"-18	3.00	190371-6S	**4KFJ2**
13/32 in	3/4"-18	3.39	190371-8S	**4KFJ3**
Male SAE Swivel, 90° Elbow				
3/16 in	7/16"-24	2.36	190235-4S	**4KFJ4**
1/4 in	1/2"-20	2.53	190235-5S	**4KFJ5**
13/32 in	5/8"-18	3.04	190235-6-8S	**4KFJ6**
5/16 in	5/8"-18	2.63	190235-6S	**4KFJ7**
5/16 in	11/16"-18	2.63	190235-7-6S	**4KFJ8**
13/32 in	3/4"-18	3.04	190235-8S	**4KFJ9**

Hydraulic Hose I.D.	Male SAE Size (in.)	Female SAE Size (in.)	L (in.)	Mfr. Model	Item No.
Male/Female SAE, Straight					
3/16 in	Bulkhead 5/8-18	7/16-24	2.05	190276-4S	**4KFK7**
Male Inverted SAE, Straight					
3/16 in	7/16-20 with 30° Flare Seat	—	1.80	190277-4S	**4KFK6**

Pipe Thread Hydraulic Hose Adapters

EATON

(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
Female NPT, Straight			
1/4"-18	4500	2096-4S	**2F481**
3/8"-18	3500	2096-6S	**2F483**
1/2"-14	3500	2096-8-4S	**4VPR9**
1/2"-14	3500	2096-8-6S	**4VPT1**
1/2"-14	3500	2096-8S	**2F485**
3/4"-14	5000	2096-12-8S	**4VPT2**
3/4"-14	3000	2096-12S	**4HL82**
1"-11-1/2	2500	2096-16S	**4HL83**
1 1/4"-11-1/2	2000	2096-20S	**4HL84**
Female NPT, 90° Elbow			
1/4"-18	4500	2087-4-4S	**2F461**
3/8"-18	3500	2087-6-6S	**2F463**
1/2"-14	3500	2087-8-8S	**2F465**
3/4"-14	3000	2087-12-12S	**4HL75**
1"-11-1/2	2500	2087-16-16S	**4HL76**
1 1/4"-11-1/2	2000	2087-20-20S	**4VPR3**
Female NPT, Tee			
1/4"-18	4500	2090-4-4S	**2F475**
3/8"-18	3500	2090-6-6S	**2F477**
1/2"-14	3500	2090-8-8S	**2F479**
3/4"-14	3000	2090-12-12S	**4HL79**
1"-11-1/2	2500	2090-16-16S	**4HL80**
1 1/4"-11-1/2	2000	2090-20-20S	**4HL81**
Female NPT, Cross			
1/4"-18	4500	2080-4-4S	**4VPR4**
3/8"-18	3500	2080-6-6S	**4VPR5**
1/2"-14	3500	2080-8-8S	**4VPR6**
3/4"-14	3000	2080-12-12S	**4VPR7**
1"-11-1/2	2500	2080-16-16S	**4VPR8**

(M)NPT Thread	(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male NPT to Female NPT Hydraulic Hose Adapter, Reducer Bushing				
1/4"-18	1/8"-27	5000	2081-4-2S	**2F433**
3/8"-18	1/4"-18	4500	2081-6-4S	**2F435**
3/8"-18	1/8"-27	5000	2081-6-2S	**4HL71**
1/2"-14	1/4"-18	4500	2081-8-4S	**2F437**
1/2"-14	3/8"-18	3500	2081-8-6S	**2F439**
3/4"-14	3/8"-18	3500	2081-12-6S	**2F427**
3/4"-14	1/2"-14	3500	2081-12-8S	**2F429**
1"-11-1/2	3/4"-14	3000	2081-16-12S	**2F431**
1"-11-1/2	1/2"-14	3500	2081-16-8S	**4HL67**
1 1/4"-11-1/2	1"-11-1/2	2500	2081-20-16S	**4HL68**
1 1/2"-11-1/2	1 1/4"-11-1/2	2000	2081-24-20S	**4HL69**
2"-11-1/2	1 1/2"-11-1/2	1500	2081-32-24S	**4HL70**
Male NPT to Female NPT Hydraulic Hose Adapter, Reducer				
1/8"-27	1/4"-18	5000	2040-2-4S	**38YN15**
1/4"-18	3/8"-18	5000	2040-4-6S	**38YN17**
3/8"-18	1/2"-14	4000	2040-6-8S	**38YN19**
1/2"-14	3/4"-14	3000	2040-8-12S	**38YN21**
3/4"-14	1"-11-1/2	2500	2040-12-16S	**38YN23**
1"-11-1/2	1 1/4"-11-1/2	2000	2040-16-20S	**38YN25**
Male NPT to Female NPT Hydraulic Hose Adapter, 90° Street Elbow				
1/4"-18	1/4"-18	4500	2089-4-4S	**2F469**
3/8"-18	3/8"-18	3500	2089-6-6S	**2F471**
1/2"-14	1/2"-14	3500	2089-8-8S	**2F473**
3/4"-14	3/4"-14	3000	2089-12-12S	**2F467**
1"-11-1/2	1"-11-1/2	2500	2089-16-16S	**4HL77**
1 1/4"-11-1/2	1 1/4"-11-1/2	2000	2089-20-20S	**4HL78**
Male NPT to Female NPT Hydraulic Hose Adapter, Tee				
1/4"-18	1/4"-18	4500	2091-4-4S	**4VPV2**
3/8"-18	3/8"-18	3500	2091-6-6S	**4VPV3**
1/2"-14	1/2"-14	3500	2091-8-8S	**4VPV4**
3/4"-14	3/4"-14	3000	2091-12-12S	**4VPV5**
1"-11-1/2	1"-11-1/2	2500	2091-16-16S	**4VPV6**
1/4"-18	1/4"-18	4500	2092-4-4S	**4VPV7**
3/8"-18	3/8"-18	3500	2092-6-6S	**4VPV8**
1/2"-14	1/2"-14	3500	2092-8-8S	**4VPV9**
3/4"-14	3/4"-14	3000	2092-12-12S	**4VPW1**
1"-11-1/2	1"-11-1/2	2500	2092-16-16S	**4VPW2**

CONTINUED

CONTINUED

EATON

Pipe Thread Hydraulic Hose Adapters

(M)NPT Thread	(M)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male NPT, Pipe Plug				
1/8"-27	—	10,000	2082-2S	**2F441**
1/4"-18	—	9500	2082-4S	**2F443**
3/8"-18	—	8000	2082-6S	**2F445**
1/2"-14	—	6000	2082-8S	**2F447**
3/4"-14	—	5000	2082-12S	**4HL72**
1"-11-1/2	—	4000	2082-16S	**4HL73**
Male NPT, Hex Socket Plug				
1/4"-18	—	9500	2222-4s	**4VTK4**
3/8"-18	—	8000	2222-6s	**4VTK5**
1/2"-14	—	6000	2222-8s	**4VTK6**
3/4"-14	—	5000	2222-12S	**4VTK7**
Male NPT to Male NPT, Hex Nipple				
1/4"-18	1/4"-18	9500	2083-4-4S	**2F453**
3/8"-14	1/8"-27	8000	2083-6-2S	**4VTJ3**
3/8"-18	1/4"-18	8000	2083-6-4S	**2F455**
3/8"-18	3/8"-18	8000	2083-6-6S	**2F457**
1/2"-14	1/4"-18	6000	2083-8-4S	**4VTJ4**
1/2"-14	3/8"-18	6000	2083-8-6s	**4VTJ5**
1/2"-14	1/2"-14	6000	2083-8-8S	**2F459**
3/4"-14	1/4"-18	5000	2083-12-4S	**4VTJ1**
3/4"-14	1/2"-14	5000	2083-12-8s	**4VTJ2**
3/4"-14	3/4"-14	5000	2083-12-12S	**2F449**
1"-11-1/2	3/4"-14	4000	2083-16-12S	**4VTJ6**
1"-11-1/2	1"-11-1/2	4000	2083-16-16S	**2F451**
1 1/4"-11-1/2	1 1/4"-11-1/2	3000	2083-20-20S	**4HL74**
Male NPT to Male NPT, 90° Elbow				
1/4"-18	1/4"-18	9500	2085-4-4s	**4VTJ7**
3/8"-18	3/8"-18	8000	2085-6-6s	**4VTJ8**
1/2"-14	1/2"-14	6000	2085-8-8s	**4VTJ9**
3/4"-14	3/4"-14	5000	2085-12-12s	**4VTK1**
1"-11-1/2	1"-11-1/2	4000	2085-16-16s	**4VTK2**
1 1/4"-11-1/2	1 1/4"-11-1/2	3000	2085-20-20S	**4VTK3**

(F)NPT Thread	(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
Female NPT to Female NPSM Swivel				
1/4"-18	1/4"-18	4500	2046-4-4S	**2F383**
3/8"-18	3/8"-18	3500	2046-6-6S	**2F385**
1/2"-14	1/2"-14	3500	2046-8-8S	**2F387**
3/4"-14	3/4"-14	3000	2046-12-12S	**2F379**
1"-11-1/2	1"-11-1/2	2500	2046-16-16S	**2F381**

(M)NPT Thread	(F)NPSM Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male NPT to Female NPSM Swivel Hydraulic Hose Adapters				
1/8"-27	1/8"-27	6000	2045-2-2S	**2F369**
1/4"-18	1/4"-18	5000	2045-4-4S	**2F373**
3/8"-18	3/8"-18	4000	2045-6-6S	**2F375**
1/2"-14	1/2"-14	3500	2045-8-8S	**2F377**
3/4"-14	3/4"-14	3500	2045-12-12S	**2F365**
1"-11-1/2	1"-11-1/2	3000	2045-16-16S	**2F367**
1 1/4"-11-1/2	1 1/4"-11-1/2	2000	2045-20-20S	**4VRC8**
1 1/2"-11-1/2	1 1/2"-11-1/2	1500	2045-24-24S	**4VRC9**
2"-11-1/2	2"-11-1/2	1500	2045-32-32S	**4VRD1**
Male NPT to Female NPSM Hydraulic Hose Adapters, 45° Elbow				
1/8"-27	1/8"-27	6000	2049-2-2S	**4VRA8**
1/4"-18	1/4"-18	5000	2049-4-4S	**4VRA9**
3/8"-18	3/8"-18	4000	2049-6-6S	**4VRC1**
1/2"-14	1/2"-14	3500	2049-8-8S	**4VRC2**
3/4"-14	3/4"-14	3500	2049-12-12S	**4VRC3**
1"-11-1/2	1"-11-1/2	3000	2049-16-16S	**4VRC4**
Male NPT to Female NPSM Swivel Hydraulic Hose Adapters, Elbow Internal Pipe Swivel				
1/4"-18	1/4"-18	5000	2047-4-4S	**2F393**
3/8"-18	3/8"-18	4000	2047-6-6S	**2F395**
1/2"-14	1/2"-14	3500	2047-8-8S	**2F397**
3/4"-14	3/4"-14	3500	2047-12-12S	**2F389**
1"-11-1/2	1"-11-1/2	3000	2047-16-16S	**4VRC5**
1 1/4"-11-1/2	1 1/4"-11-1/2	2000	2047-20-20S	**4VRC6**
1 1/2"-11-1/2	1 1/2"-11-1/2	1500	2047-24-24S	**4VRC7**

ENERPAC | EATON | Aeroquip

High-Pressure Hydraulic Fittings

- Max. pressure: 10,000 psi

Steel fittings are designed for high-force hydraulic tools. Static hydraulic only (nonimpulse).



No. 2F457



No. 46C628

Description	L (in.)	(M)NPT Size (in.)	(F)NPT Size	Brand	Mfr. Model	Item No.
Adaptor, Adapter, Reusable (F)NPT to (M)NPT	1.75	3/8 in-18	1/4"-18	Enerpac	FZ1055	**46C615**
Adaptor, Reusable (F) NPT to (M)NPT	1.69	1/2 in-14	1/4"-18	Enerpac	FZ1633	**46C626**
Adaptor, Reusable (F) NPT to (M)NPT	1.69	1/2 in-14	3/8"-18	Enerpac	FZ1634	**46C627**
Coupling, Reusable (F)NPT	1.13	1/4 in-18	1/4"-18	Enerpac	FZ1605	**46C616**
Coupling, Reusable (F)NPT	1.13	3/8 in-18	3/8"-18	Enerpac	FZ1614	**46C620**
Elbow, Reusable (F)NPT	1.38	3/8 in-18	3/8"-18	Enerpac	FZ1610	**46C618**
Hex Nipple,	—		—	Eaton Aeroquip 2083-6-6S		**2F457**
Nipple, Reusable (M)NPT	1.5	1/4 in-18	1/4"-18	Enerpac	FZ1608	**46C617**
Nipple, Reusable (M)NPT	1.47	3/8 in-18	3/8"-18	Enerpac	FZ1617	**46C623**
Reducer, Reusable (F)NPT	1.88	1/2 in-14	3/8"-18	Enerpac	FZ1625	**46C624**
Reducer, Reusable (F) NPT to (M)NPT	1.13	3/8 in-18	1/4"-18	Enerpac	FZ1615	**46C621**
Reducer, Reusable (M)NPT to (F)NPT	0.75	3/8 in-18	1/4"-18	Enerpac	FZ1630	**46C625**
Reducer Bushing,		—	—	Eaton Aeroquip 2081-6-4S		**2F435**
Street Elbow, Reusable (M)NPT to (F)NPT	.94	3/8 in-18	3/8"-18	Enerpac	FZ1616	**46C622**
Swivel Fitting, Reusable (M)NPT to (F)NPT	1.56	3/8 in-18	3/8"-18	Enerpac	FZ1660	**46C628**
Tee, (F)NPT		—	—	Eaton Aeroquip 2090-6-6S		**2F477**
Tee, Reusable (F)NPT	1.77	—	—	Enerpac	FZ1612	**46C619**

EATON

ORS Hydraulic Hose Adapters

- O-Ring face seal

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male ORS, Straight					
9/16"-18	1/4"-18	1.24	9000	FF2031T0404S	**4VRL3**
11/16"-16	1/4"-18	1.3	9000	FF2031T0604S	**4VRL4**
11/16"-16	3/8"-18	1.3	8000	FF2031T0606S	**4VRL5**
13/16"-16	3/8"-18	1.36	8000	FF2031T0806S	**4VRL6**
13/16"-16	1/2"-14	1.61	6000	FF2031T0808S	**4VRL7**
1"-14	1/2"-14	1.72	6000	FF2031T1008S	**4VRL8**
1 3/16"-12	3/4"-14	1.84	5000	FF2031T1212S	**4VRL9**
1 7/16"-12	1"-11-1/2	2.05	4000	FF2031T1616S	**4VRN1**
Male ORS, 45° Elbow					
9/16"-18	1/4"-18	1.24	9000	FF2093T0404s	**4VRP1**
11/16"-16	1/4"-18	1.4	9000	FF2093T0604s	**4VRP2**
11/16"-16	3/8"-18	1.4	8000	FF2093T0606S	**4VRP3**
13/16"-16	3/8"-18	1.6	8000	FF2093T0806S	**4VRP4**
13/16"-16	1/2"-14	1.6	6000	FF2093T0808S	**4VRP5**
1"-14	1/2"-14	1.8	6000	FF2093T1008S	**4VRP6**
1 3/16"-12	3/4"-14	2	5000	FF2093T1212S	**4VRP7**
1 7/16"-12	1"-11-1/2	2.3	4000	FF2093T1616S	**4VRP8**
Male ORS, 90° Elbow					
9/16"-18	1/4"-18	0.92	9000	FF2032T0404S	**4VRN2**
11/16"-16	1/4"-18	0.98	9000	FF2032T0604S	**4VRN3**
11/16"-16	3/8"-18	1.04	8000	FF2032T0606S	**4VRN4**
11/16"-16	3/8"-18	1.1	8000	FF2032T0806S	**4VRN5**
13/16"-16	1/2"-14	1.21	6000	FF2032T0808S	**4VRN6**
13/16"-16	1/2"-14	1.31	6000	FF2032T1008S	**4VRN7**
1 3/16"-12	3/4"-14	1.47	5000	FF2032T1212S	**4VRN8**
1 7/16"-12	1"-11-1/2	1.64	4000	FF2032T1616S	**4VRN9**

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male ORS, Straight					
9/16"-18	1/4"-18	1.24	9000	FF2031T0404S	**4VRL3**
11/16"-16	1/4"-18	1.3	9000	FF2031T0604S	**4VRL4**
11/16"-16	3/8"-18	1.3	8000	FF2031T0606S	**4VRL5**
13/16"-16	3/8"-18	1.36	8000	FF2031T0806S	**4VRL6**
13/16"-16	1/2"-14	1.61	6000	FF2031T0808S	**4VRL7**
1"-14	1/2"-14	1.72	6000	FF2031T1008S	**4VRL8**
1 3/16"-12	3/4"-14	1.84	5000	FF2031T1212S	**4VRL9**
1 7/16"-12	1"-11-1/2	2.05	4000	FF2031T1616S	**4VRN1**
Male ORS, 45° Elbow					
9/16"-18	1/4"-18	1.24	9000	FF2093T0404s	**4VRP1**
11/16"-16	1/4"-18	1.4	9000	FF2093T0604s	**4VRP2**
11/16"-16	3/8"-18	1.4	8000	FF2093T0606S	**4VRP3**
13/16"-16	3/8"-18	1.6	8000	FF2093T0806S	**4VRP4**
13/16"-16	1/2"-14	1.6	6000	FF2093T0808S	**4VRP5**
1"-14	1/2"-14	1.8	6000	FF2093T1008S	**4VRP6**
1 3/16"-12	3/4"-14	2	5000	FF2093T1212S	**4VRP7**
1 7/16"-12	1"-11-1/2	2.3	4000	FF2093T1616S	**4VRP8**
Male ORS, 90° Elbow					
9/16"-18	1/4"-18	0.92	9000	FF2032T0404S	**4VRN2**
11/16"-16	1/4"-18	0.98	9000	FF2032T0604S	**4VRN3**
11/16"-16	3/8"-18	1.04	8000	FF2032T0606S	**4VRN4**
11/16"-16	3/8"-18	1.1	8000	FF2032T0806S	**4VRN5**
13/16"-16	1/2"-14	1.21	6000	FF2032T0808S	**4VRN6**
13/16"-16	1/2"-14	1.31	6000	FF2032T1008S	**4VRN7**
1 3/16"-12	3/4"-14	1.47	5000	FF2032T1212S	**4VRN8**
1 7/16"-12	1"-11-1/2	1.64	4000	FF2032T1616S	**4VRN9**

(M)ORS Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male ORS, Plug				
9/16"-18	0.66	9000	FF976704S	**4VRK6**
11/16"-16	0.75	9000	FF976706S	**4VRK7**
13/16"-16	0.87	9000	FF976708S	**4VRK8**
1"-14	1.02	9000	FF976710S	**4VRK9**
1 3/16"-12	1.08	6000	FF976712S	**4VRL1**
1 7/16"-12	1.1	6000	FF976716S	**4VRL2**
Male ORS, Straight				
9/16"-18	1.08	9000	FF2000T0404S	**4VRJ3**
11/16"-16	1.22	9000	FF2000T0606S	**4VRJ4**
13/16"-16	1.39	9000	FF2000T0808S	**4VRJ5**
1"-14	1.68	9000	FF2000T1010S	**4VRJ6**
1 3/16"-12	1.86	6000	FF2000T1212S	**4VRJ7**
1 7/16"-12	1.94	6000	FF2000T1616S	**4VRJ8**
Male ORS, Straight Bulkhead				
9/16"-18	1.9	9000	FF1994T0404S	**4VRH6**
11/16"-16	2.09	9000	FF1994T0606S	**4VRH7**
13/16"-16	2.3	9000	FF1994T0808S	**4VRH8**
1"-14	2.62	9000	FF1994T1010S	**4VRH9**
1 3/16"-12	2.72	6000	FF11994T1212S	**4VRJ1**
1 7/16"-12	2.76	6000	FF1994T1616S	**4VRJ2**
Male ORS, 90° Elbow				
9/16"-18	0.85	9000	FF2035T0404S	**4VRJ9**
11/16"-16	0.98	9000	FF2035T0606S	**4VRK1**
13/16"-16	1.1	9000	FF2035T0808S	**4VRK2**
1"-14	1.31	9000	FF2035T1010S	**4VRK3**
1 3/16"-12	1.47	6000	FF2035T1212S	**4VRK4**
Male ORS 90° Elbow				
1 7/16"-12	1.64	6000	FF2035T1616S	**4VRK5**

CONTINUED

CONTINUED

(M)ORB Thread	(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male ORB to Male JIC, 45° Elbow					
7/16-20	7/16-20	1.05	4500	2061-4-4S	4VTF3
7/16-20	9/16-18	1.14	4500	2061-4-6S	4VTF4
9/16-18	7/16-20	1.14	4000	2061-6-4S	4VTF5
9/16-18	9/16-18	1.14	4000	2061-6-6S	4VTF6
9/16-18	3/4-16	1.3	4500	2061-6-8S	4VTF7
3/4-16	9/16-18	1.3	4000	2061-8-6S	4VTF8
3/4-16	3/4-16	1.3	4000	2061-8-8S	4VTF9
3/4-16	7/8-14	1.36	4000	2061-8-10S	4VTG1
7/8-14	3/4-16	1.52	4000	2061-10-8S	4VTG2
7/8-14	7/8-14	1.52	4000	2061-10-10S	4VTG3
1 1/16-12	3/4-16	1.73	3500	2061-12-8S	4VTG4
1 1/16-12	1 1/16-12	1.73	3500	2061-12-12S	4VTG5
1 1/16-12	1 5/16-12	1.86	3500	2061-12-16S	4VTG6
1 5/16-12	1 1/16-12	1.86	2500	2061-16-12S	4VTG7
1 5/16-12	1 5/16-12	1.86	2500	2061-16-16S	4VTG8
Male ORB to Male JIC, Tee					
7/16-20	7/16-20	1.78	4500	203003-4-4S	4VTE1
7/16-20	7/16-20	1.92	4500	203005-4-4s	4VTE7
9/16-18	9/16-18	2.12	4000	203003-6-6S	4VTE2
3/4-16	3/4-16	2.5	4000	203003-8-8S	4VTE3
3/4-16	7/8-14	2.9	4000	203003-8-8-10S	4VTE4
9/16-18	9/16-18	2.3	4000	203005-6-6s	4VTE8
3/4-16	3/4-16	2.7	4000	203005-8-8s	4VTE9
1 1/16-12	1 1/16-12	3.32	3500	203003-12-12S	4VTE5
1 5/16-12	1 5/16-12	3.62	2500	203003-16-16S	4VTE6
1 1/16-12	1 1/16-12	3.5	3500	203005-12-12s	4VTF1
1 5/16-12	1 5/16-12	3.81	2500	203005-16-16s	4VTF2
Male SAE (ORB) to Male JIC, 90° Elbow					
7/16-20	9/16-18	1.19	4500	2062-4-6S	4VTG9
7/16-20	3/4-16	1.2	4500	2062-4-8S	4VTH1
9/16-18	7/16-20	1.25	4000	2062-6-4S	4VTH2
9/16-18	7/8-14	1.54	4000	2062-6-10S	4VTH3
3/4-16	7/16-20	1.45	4000	2062-8-4S	4VTH4
7/8-14	9/16-18	1.7	4000	2062-10-6S	4VTH5
1 1/16-12	7/8-14	1.94	3500	2062-12-10S	4VTH6
3/4 in	3/4 in	1.94 in	3,500 psi	2062-12-12S	2F403
5/8 in	1/2 in	1.5 in	4,000 psi	2062-10-8S	2F401
5/8 in	5/8 in	1.71 in	4,000 psi	2062-10-10S	2F399
1/2 in	3/8 in	1.45 in	4,000 psi	2062-8-6S	2F415
1/2 in	1/2 in	1.45 in	4,000 psi	2062-8-8S	2F417
1/2 in	5/8 in	1.54 in	4,000 psi	2062-8-10S	2F413
1/4 in	1/4 in	1.03 in	4,500 psi	2062-4-4S	2F407
3/8 in	3/8 in	1.25 in	4,000 psi	2062-6-6S	2F409
3/8 in	1/2 in	1.32 in	4,000 psi	2062-6-8S	2F411
1 3/16-12	1 1/16-12	2	3000	2062-14-12S	4VTH7
1 5/16-12	1 1/16-12	2.05	2500	2062-16-12S	4VTH8
1 5/16-12	1 5/16-12	2.05	2500	2062-16-16S	4VTH9
Male SAE (ORB) to Male JIC, Straight					
7/16-20	3/4-16	1.49	6000	202702-4-8S	4VTC6
9/16-18	7/8-14	1.71	5500	202702-6-10S	4VTC7
3/4-16	7/16-20	1.37	7500	202702-8-4S	4VTC8
3/4-16	1 1/16-12	1.94	4000	202702-8-12S	4VTC9
7/8-14	9/16-18	1.5	7000	202702-10-6S	4VTD1
7/8-14	1 1/16-12	1.88	4000	202702-10-12S	4VTD2
1 1/16-12	3/4-16	1.76	5000	202702-12-8S	4VTD4
1 1/16-12	7/8-14	1.86	5000	202702-12-10S	4VTD5
1 5/16-12	7/8-14	1.89	4500	202702-16-10S	4VTD8
1 5/16-12	1 1/16-12	1.99	4000	202702-16-12S	4VTD9
5/8 in	1/2 in	1.5 in	6,000 psi	202702-10-8S	2F341
5/8 in	5/8 in	1.7 in	5,500 psi	202702-10-10S	2F339
1/4 in	1/4 in	1.23 in	7,500 psi	202702-4-4S	2F347
1/4 in	3/8 in	1.27 in	7,000 psi	202702-4-6S	2F349
3/8 in	3/8 in	1.3 in	7,000 psi	202702-6-6S	2F351
3/8 in	1/2 in	1.44 in	6,000 psi	202702-6-8S	2F353
1/2 in	3/8 in	1.38 in	7,000 psi	202702-8-6S	2F357
1/2 in	1/2 in	1.48 in	6,000 psi	202702-8-8S	2F359
1/2 in	5/8 in	1.54 in	5,500 psi	202702-8-10S	2F355
3/4 in	3/4 in	1.97 in	4,000 psi	202702-12-12S	2F343
7/8-14	1 5/16-12	2.07	3500	202702-10-16S	4VTD3
1 1/16-12	1 5/16-12	2.04	3500	202702-12-16S	4VTD6
1 3/16-12	1 5/16-12	2.04	3500	202702-14-16S	4VTD7
1 in	1 in	2.04 in	3,500 psi	202702-16-16S	2F345

(F)NPT Thread	(F)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Straight Female NPT to Female JIC Swivel					
1/4 in-18	7/16"-20	1.11	4500	2242-4-4s	4VPT3
3/8 in-18	9/16"-18	1.16	3500	2242-6-6s	4VPT4
3/8 in-18	3/4"-16	1.2	3500	2242-6-8s	4VPT5
1/2 in-14	3/4"-16	1.48	3500	2242-8-8s	4VPT6
1/2 in-14	7/8"-14	1.47	3000	2242-8-10s	4VPT7
3/4 in-14	1 1/16"-12	1.49	3000	2242-12-12s	4VPT8
1 in-11-1/2	1 5/16"-12	1.85	2500	2242-16-16s	4VPT9

(F)NPT Thread	(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
Straight Female NPT to Male JIC					
1/4"-18	—	1.4 in	4,500 psi	2022-4-6S	4VPU2
1/4"-18	7/16"-20	1.39 in	4,500 psi	2022-4-4S	4VPU1
3/8"-18	1/2"	1.56 in	3,500 psi	2022-6-8S	4VPU4
3/8"-18	9/16"-18	1.46 in	3,500 psi	2022-6-6S	4VPU3
1/2"-14	9/16"-18	1.69 in	3,500 psi	2022-8-6S	4VPU5
1/2"-14	3/4"-16	1.79 in	3,500 psi	2022-8-8S	4VPU6
1/2"-14	7/8"-14	1.89 in	3,500 psi	2022-8-10S	4VPU7
3/4"-14	1 1/16"-12	2.06 in	3,000 psi	2022-12-12S	4VPU8
1"-11-1/2	1 1/16"-12	2.35 in	2,500 psi	2022-16-12S	4VPU9
1"-11-1/2	1 5/16"-12	2.35 in	2,500 psi	2022-16-16S	4VPV1

Split Flange Size (in.)	Mfr. Model	Item No.
Hydraulic Hose Adapter		
1 1/2" CD 62	FF5540-2416S	14L807

Split Flange Size (in.)	Mfr. Model	Item No.
Split Flange Kits (Include 2 Flange Halves, Bolts, Washers, and O-Ring)		
1/2 in	FF593-08	4KFN2
3/4 in	FF593-12	4KFN3
1 in	FF593-16	4KFN4
1 1/4 in	FF593-20	4KFN5
1 1/2 in	FF593-24	4KFN6
2 in	FF593-32	4KFN7

37° JIC/SAE Flare Union Hydraulic Hose Adapters

EATON

- Hose fittings are specific to hose brand.

(F)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
Female JIC Cap				
7/16"-20	0.59mm	5,000 psi	210292-4S	2F493
1/2"-20	0.61mm	8,500 psi	210292-5S	14L787
9/16"-18	0.62mm	4,000 psi	210292-6S	2F495
3/4"-16	0.75mm	4,000 psi	210292-8S	2F497
7/8"-14	0.84mm	3,000 psi	210292-10S	2F487
1 1/16"-12	0.91mm	3,000 psi	210292-12S	2F489
1 5/16"-12	1.02mm	3,000 psi	210292-16S	2F491
1 5/8"-12	1.06mm	3,500 psi	210292-20S	14L784
1 7/8"-12	1.19mm	2,000 psi	210292-24S	14L785
2 1/2"-12	1.44mm	1,250 psi	210292-32S	14L786

(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
Male JIC Plug				
1/2-20	0.80mm	8,500 psi	900599-5S	14L803
9/16-18	0.84mm	7,000 psi	900599-6S	2F569
—	0.80mm	8,500 psi	900599-4S	2F567
—	1.10mm	5,500 psi	900599-10S	2F561
3/4-16	0.94mm	6,000 psi	900599-8S	2F571
1 1/16-12	1.28mm	4,000 psi	900599-12S	2F563
1 5/16-12	1.33mm	4,000 psi	900599-16S	2F565
1 5/8-12	1.45mm	3,500 psi	900599-20S	14L799
1 7/8-12	1.65mm	2,000 psi	900599-24S	14L801
2 1/2-12	2.05mm	1,250 psi	900599-32S	14L802
Male JIC Tee				
7/16-20	1.78 in	8,500 psi	2033-4-4S	4VPW6
9/16-18	2.1 in	7,000 psi	2033-6-6S	4VPW7
3/4-16	2.5 in	6,000 psi	2033-8-8S	4VPW8
7/8-14	2.9 in	5,500 psi	2033-10-10S	4VPW9
1 1/16-12	3.32 in	4,000 psi	2033-12-12S	4VPX1
1 5/16-12	3.62 in	3,500 psi	2033-16-16S	4VPX2
Male JIC to Male JIC Bulkhead				
—	2.18 in	7,000 psi	2041-6-6S	2F361
7/16-20	2.07 in	8,500 psi	2041-4-4S	4HL60
3/4-16	2.44 in	6,000 psi	2041-8-8S	2F363
7/8-14	2.74 in	5,500 psi	2041-10-10S	4VPW3
1 1/16-12	3.09 in	4,000 psi	2041-12-12s	4VPW4
1 5/16-12	3.14 in	3,500 psi	2041-16-16S	4VPW5
Male JIC Union				
7/16-20	1.37 in	3,500 psi	2027-4-4S	2F333
9/16-18 x 7/16-20	1.4 in	7,000 psi	2027-6-4S	4VPX3
9/16-18	1.41 in	7,000 psi	2027-6-6S	2F335
3/4-16 x 9/16-18	1.52 in	6,000 psi	2027-8-6S	4VPX4
3/4-16	1.62 in	6,000 psi	2027-8-8S	2F337
7/8-14 x 3/4-16	1.8 in	3,000 psi	2027-10-8S	49U012
7/8-14	1.88 in	5,500 psi	2027-10-10S	2F327
1 1/16-12 x 7/8-14	2.05 in	4,000 psi	2027-12-10S	4VPX6
1 1/16-12	2.16 in	4,000 psi	2027-12-12S	2F329
1 5/16-12	2.25 in	3,500 psi	2027-16-16S	2F331

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
45° Elbow Flange Adapter				
3/4-16	—	4000	500023-8S	38YR51
1 1/16-12	—	3000	500023-12S	38YR52
1 5/16-12	—	2500	500023-16S	38YR53
1 5/8-12	—	2000	500023-20S	38YR54
1 7/8-12	—	1500	500023-24S	38YR55
2 1/2-12	—	1125	500023-32S	38YR56
45° Elbow Male JIC Reducer to Female JIC Swivel				
7/16-20	7/16-20	5500	2070-4-4S	4VPX7
—	—		2070-6-6S	4VPX8
3/4-16	3/4-16	4000	2070-8-8S	4VPX9
7/8-14	7/8-14	3000	2070-10-10S	4VPY1
1 1/16-12	1 1/16-12	3000	2070-12-12S	4VPY2
1 5/16-12	1 5/16-12	2500	2070-16-16S	4VPY3
90° Elbow Flange Adapter				
3/4-16	—	4000	500024-8S	38YR57
1 7/8-12	—	1500	500024-24S	38YR58
2 1/2-12	—	1125	500024-32S	38YR59
90° Elbow Male JIC to Female JIC Swivel				
7/16-20	7/16-20	5500	2071-4-4S	4HL66
—	—		2071-6-6S	2F423
—	—		2071-8-8S	2F425
1 1/16-12	1 1/16-12	3000	2071-12-12S	4VPY4
1 5/16-12	1 5/16-12	2500	2071-16-16S	4VPY5
Male JIC Reducer to Female JIC Reducer				
3/4-16	7/8-14	3000	2215-10-8S	4VPZ5
1 1/16-12	7/8-14	3000	2215-10-12S	4VPZ6
7/8-14	1 1/16-12	3000	2215-12-10S	4VPZ7
1 5/16-12	1 1/16-12	2500	2215-12-16S	4VPZ8
1 5/8-12	1 5/16-12	2000	2215-16-20S	4VPZ9
1 5/8-12	1 7/8-12	1500	2215-24-20S	4VRA1
Male JIC Reducer to Female JIC Swivel				
7/16-20	9/16-18	4000	221501-6-4S	4VPY6
7/16-20	3/4-16	4000	221501-8-4S	4VPY7
9/16-18	3/4-16	4000	221501-8-6S	4VPY8
9/16-18	7/8-14	3000	221501-10-6S	4VPY9
3/4-16	1 1/16-12	3000	221501-12-8S	4VPZ1
7/8-14	1 5/16-12	2500	221501-16-10S	4VPZ2
1 1/16-12	1 5/16-12	2500	221501-16-12S	4VPZ3
1 5/16-12	1 5/8-12	2000	221501-20-16S	4VPZ4

(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Male JIC to Split Flange, Straight				
3/4 in-16	1.66	5000	500025-8s	4VRA2
1 1/16 in-12	1.91	4000	500025-12s	4VRA3
1 5/16 in-12	2.01	3500	500025-16s	4VRA4
1 5/8 in-12	2.46	3500	500025-20s	4VRA5
1 7/8 in-12	2.71	2000	500025-24s	4VRA6
2 1/2 in-12	3.08	1250	500025-32s	4VRA7

37°/45° JIC/SAE Flare Hydraulic Hose Adapters

EATON

- More sizes and fittings are available on Grainger.com

(M)NPT Size (in.)	Male SAE Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
45° Flare, Male NPT				
Brass				
				
⅛ in-27	7/16"-20	1000	2000-2-4B	**14L769**
¼ in-18	7/16"-20	1000	2000-4-4B	**14L770**
¼ in-18	½"-20	1000	2000-4-5B	**14L771**
¼ in-18	5/8"-18	1000	2000-4-6B	**14L772**
½ in-14	¾"-16	1000	2000-8-8B	**14L773**
¾ in-14	1 1/16"-14	1000	2000-12-12B	**14L768**
45° Flare, Male NPT, 90° Elbow				
				
¼ in-18	7/16"-20	1000	2003-4-4B	**14L774**
¼ in-18	5/8"-18	1000	2003-4-6B	**14L775**
¼ in-18	¾"-16	1000	2003-4-8B	**14L776**
⅜ in-18	7/8"-14	1000	2003-6-10B	**14L777**
½ in-14	¾"-16	1000	2003-8-8B	**14L778**

(M)NPT Size (in.)	Male JIC Size (in.)	Max. Working Pressure @ 70°F	Overall Length	Mfr. Model	Item No.
37° (M)NPT to (M)JIC					
Carbon Steel					
					
⅛"-27	7/16-20	8,500 psi	0.72 in	2023-2-4S	**6W445**
¼"-18	7/16-20	8,500 psi	0.86 in	2023-4-4S	**6W446**
¼"-18	9/16-18	7,000 psi	0.86 in	2023-4-6S	**6W447**
⅜"-18	9/16-18	7,000 psi	0.95 in	2023-6-6S	**6W448**
⅜"-18	¾-16	6,000 psi	0.98 in	2023-6-8S	**6W449**
½"-14	¾-16	6,000 psi	1.17 in	2023-8-8S	**6W450**
¾"-14	1 1/16-12	4,000 psi	1.2 in	2023-12-12S	**2F311**
1"-11-1/2	1 5/16-12	3,500 psi	3 in	2023-16-16s	**4VRD2**
(M)NPT to 37° (M)JIC, 90° Elbow					
⅛"-27	7/16-20	8,500 psi	0.78 in	2024-2-4S	**6W439**
¼"-18	—	8,500 psi	1.09 in	2024-4-4S	**6W440**
¼"-18	½-20	8,500 psi	1.09 in	2024-4-5S	**2F319**
¼"-18	9/16-18	7,000 psi	1.09 in	2024-4-6S	**6W441**
⅜"-18	7/16-20	8,000 psi	1.22 in	2024-6-4S	**2F321**
⅜"-18	½-20	8,000 psi	1.12 in	2024-6-5S	**14L783**
⅜"-18	—	7,000 psi	1.22 in	2024-6-6S	**6W442**
⅜"-18	—	6,000 psi	1.25 in	2024-6-8S	**6W443**
¾"-14	¾-16	5,000 psi	1.59 in	2024-12-8S	**4VRD7**
½"-14	7/8-14	5,500 psi	1.47 in	2024-8-10S	**2F323**
½"-14	9/16-18	6,000 psi	1.47 in	2024-8-6S	**2F325**
½"-14	¾-16	6,000 psi	1.47 in	2024-8-8S	**6W444**
½"-14	1 1/16-12	4,000 psi	1.59 in	2024-8-12S	**4VRD6**
¾"-14	1 1/16-12	4,000 psi	1.59 in	2024-12-12S	**2F313**
¾"-14	1 5/16-12	3,500 psi	1.78 in	2024-12-16S	**4VRD8**
1"-11-1/2	1 1/16-12	4,000 psi	1.97 in	2024-16-12S	**4VRD9**
1"-11-1/2	1 5/16-12	3,500 psi	1.97 in	2024-16-16S	**2F315**
1¼"-11-1/2	1⅝-12	3,000 psi	2.06 in	2024-20-20S	**14L782**
316 Stainless Steel					
					
⅛"-27	—	4,000 psi	—	J4MEBO	**4HM24**
¼"-18	—	4,500 psi	—	J4-4MEBO	**4HM22**
¼"-18	—	4,000 psi	—	J5-4MEBO	**4HM26**
¼"-18	—	4,000 psi	—	J6MEBO	**4HM30**
⅜"-18	—	4,000 psi	—	J6-6MEBO	**4HM28**
⅜"-18	—	4,000 psi	—	J8MEBO	**4HM34**
¾"-14	—	5,000 psi	—	2024-12-8SS	**4VRD3**
¾"-14	1 5/16-12	3,500 psi	—	2024-12-16SS	**4VRD4**
½"-14	7/16-20	6,000 psi	—	2024-8-4SS	**4VRD5**
½"-14	—	4,000 psi	—	J8-8MEBO	**4HM32**
½"-14	—	3,000 psi	—	J10MEBO	**4HM18**
¾"-14	—	3,000 psi	—	J12MEBO	**4HM20**
1"-11-1/2	1 1/16-12	4,000 psi	—	2024-16-12SS	**4VRE1**
1"-11-1/2	1 5/16-12	4,000 psi	—	2024-16-16SS	**4VRE2**

(M)NPT Size (in.)	Male JIC Size (in.)	Max. Working Pressure @ 70°F	Overall Length	Mfr. Model	Item No.
(M)NPT to 37° (M)JIC, Straight Bulkhead					
Carbon Steel					
					
¼"-18	9/16-18	7,000 psi	2.12 in	2240-4-6s	**4VRF1**
¼"-18	7/16-20	8,500 psi	2.03 in	2240-4-4s	**4VRE9**
⅜"-18	¾-16	6,000 psi	2.36 in	2240-6-8s	**4VRF2**
½"-14	7/8-14	5,500 psi	2.71 in	2240-8-10s	**4VRF3**
¾"-14	1 1/16-12	4,000 psi	2.92 in	2240-12-12s	**4VRF4**
1"-11-1/2	1 5/16-12	3,500 psi	3.11 in	2240-16-16s	**4VRF5**
(M)NPT to 37° (M)JIC, Straight					
					
⅛"-27	7/16-20	8,500 psi	1.22 in	2021-2-4S	**6W433**
⅛"-27	9/16-18	7,000 psi	1.2 in	2021-2-6S	**2F297**
¼"-18	7/16-20	8,500 psi	1.42 in	2021-4-4S	**6W434**
¼"-18	½"-20	8,500 psi	1.42 in	2021-4-5S	**2F301**
¼"-18	9/16"-18	7,000 psi	1.43 in	2021-4-6S	**6W435**
¼"-18	¾"-16	6,000 psi	1.53 in	2021-4-8S	**2F303**
⅜"-18	7/16-20	8,000 psi	1.42 in	2021-6-4S	**2F305**
⅜"-18	½"-20	8,000 psi	1.42 in	2021-6-5S	**14L781**
⅜"-18	9/16"-18	7,000 psi	1.43 in	2021-6-6S	**6W436**
⅜"-18	¾"-16	6,000 psi	1.53 in	2021-6-8S	**6W437**
⅜"-18	7/8-14	5,500 psi	1.7 in	2021-6-10S	**4VRF8**
½"-14	7/16-20	6,000 psi	1.68 in	2021-8-4S	**4VRG1**
½"-14	9/16-18	6,000 psi	1.69 in	2021-8-6S	**4VRG3**
½"-14	¾-16	6,000 psi	1.79 in	2021-8-8S	**6W438**
½"-14	7/8-14	5,500 psi	1.89 in	2021-8-10S	**2F307**
½"-14	1 1/16-12	4,000 psi	2.06 in	2021-8-12S	**2F309**
¾"-14	¾-16	5,000 psi	1.85 in	2021-12-8S	**2F291**
¾"-14	7/8-14	5,000 psi	1.95 in	2021-12-10S	**4VRG7**
¾"-14	1 1/16-12	4,000 psi	2.06 in	2021-12-12S	**3F815**
¾"-14	1 3/16-12	4,000 psi	2.06 in	2021-12-14S	**4VRG9**
¾"-14	1 5/16-12	3,500 psi	2.11 in	2021-12-16S	**2F289**
1"-11-1/2	1 1/16-12	4,000 psi	2.25 in	2021-16-12S	**2F293**
1"-11-1/2	1 5/16-12	3,500 psi	2.3 in	2021-16-16S	**2F295**
1"-11-1/2	¾"-16	4,000 psi	1.89 in	2021-16-8S	**4VRH5**
1¼"-11-1/2	1⅝-12	3,000 psi	2.45 in	2021-20-20S	**2F299**
2½"-11-1/2	1⅞-12	2,000 psi	2.68 in	2021-24-24S	**14L779**
2"-11-1/2	2½-12	1,250 psi	3.11	2021-32-32S	**14L780**
316 Stainless Steel					
					
⅛"-27	7/16-20	4,500 psi	1.22	J4CBO	**4HM23**
¼"-18	7/16-20	4,500 psi	1.42	J4-4CBO	**4HM21**
¼"-18	½"-20	4,000 psi	1.42	J5-4CBO	**4HM25**
¼"-18	9/16"-18	4,000 psi	1.43	J6CBO	**4HM29**
¼"-18	¾-16	6,000 psi	1.53	2021-4-8SS	**4VRF6**
⅜"-18	7/16-20	6,000 psi	1.42	2021-6-4SS	**4VRF7**
⅜"-18	9/16"-18	4,000 psi	1.43	J6-6CBO	**4HM27**
⅜"-18	¾"-16	4,000 psi	1.53	J8CBO	**4HM33**
⅜"-18	7/8-14	5,500 psi	1.7	2021-6-10SS	**4VRF9**
½"-14	7/16-20	6,000 psi	1.68	2021-8-4SS	**4VRG2**
½"-14	9/16-18	6,000 psi	1.69	2021-8-6SS	**4VRG4**
½"-14	1 1/16-12	6,000 psi	2.06	2021-8-12SS	**4VRG5**
¾"-14	¾-16	5,000 psi	1.85	2021-12-8SS	**4VRG6**
¾"-14	7/8-14	5,000 psi	1.95	2021-12-10SS	**4VRG8**
¾"-14	1 1/16"-12	3,000 psi	2.06	J12CBO	**4HM19**
¾"-14	1 3/16-12	4,000 psi	2.06	2021-12-14SS	**4VRH1**
¾"-14	1 5/16-12	3,500 psi	2.11	2021-12-16SS	**4VRH2**
½"-14	¾"-16	4,000 psi	1.79	J8-8CBO	**4HM31**
¼"-14	7/8"-14	3,000 psi	1.89	J10CBO	**4HM17**
1"-11-1/2	1 1/16-12	3,500 psi	2.25	2021-16-12SS	**4VRH3**
1"-11-1/2	1 5/16-16	3,500 psi	2.3	2021-16-16SS	**4VRH4**
(M)NPT to 37° (M)JIC, Tee					
Carbon Steel					
					
¼"-18	7/16-20	8,500 psi	2.1 in	2030-4-4S	**4VRE3**
¼"-18	9/16-18	7,000 psi	2.12 in	2030-4-6S	**4VRE4**
⅜"-18	9/16-18	7,000 psi	2.12 in	2030-6-6S	**4VRE5**
½"-14	¾-16	6,000 psi	2.66 in	2030-8-8S	**4VRE6**
¾"-14	1 1/16-12	4,000 psi	3.32 in	2030-12-12S	**4VRE7**
1"-11-1/2	1 5/16-12	3,500 psi	3.62 in	2030-16-16S	**4VRE8**

SAE (ORB) to NPSM Swivel Hydraulic Hose Adapters

EATON

Fitting Size (NPSM)	Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female NPSM Swivel, Straight			
			
¼-18	7/16-20	5000	**4VRW3**
⅜-18	9/16-18	4000	**2F419**
½-14	¾-16	3500	**2F421**
½-14	7/8-14	3500	**4HL65**
¾-14	1 1/16-12	3500	**4HL63**
1 - 11½	1 5/16-12	3000	**4VRW4**
1¼ - 11½	1⅝-12	2000	**4VRW5**
1½ - 11½	1⅞-12	1500	**4VRW6**
Male SAE (ORB) to Female NPSM Swivel, 45° Elbow			
			
⅜-18	9/16-18	4000	**4VRW7**
½-14	¾-16	3500	**4VRW8**
½-14	7/8-14	3500	**4VRW9**
¾-14	1 1/16-12	3500	**4VRX1**
1 - 11½	1 5/16-12	3000	**4VRX2**
Male SAE (ORB) to Female NPSM Swivel, 90° Elbow			
			
¼-18	7/16-20	5000	**4VRX3**
⅜-18	9/16-18	4000	**4VRX4**
½-14	7/8-14	3500	**4VRX5**
½-14	¾-16	3500	**4VRX6**
¾-14	1 1/16-12	3500	**4VRX7**
1 - 11½	1 5/16-12	3000	**4VRX8**
1¼ - 11½	1⅝-12	2000	**4VRX9**
1½ - 11½	1⅞-12	1500	**4VRY1**

Male SAE Size (in.)	Female SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female SAE (ORB), Reducers			
			
7/16-20	9/16-18	3500	**4VRZ5**
7/16-20	¾-16	3000	**4VRZ6**
9/16-18	7/16-20	4500	**4VRZ7**
9/16-18	¾-16	3000	**4VRZ8**
¾-16	9/16-18	3500	**4VRZ9**
¾-16	7/8-14	2500	**4VTA1**
7/8-14	9/16-18	3500	**4VTA2**
7/8-14	¾-16	3000	**4VTA3**
7/8-14	1 1/16-12	1800	**4VTA4**
1 1/16-12	9/16-18	3500	**4VTA5**
1 1/16-12	¾-16	3000	**4VTA6**
1 1/16-12	7/8-14	2500	**4VTA7**
1 1/16-12	1 5/16-12	1600	**4VTA8**
1 5/16-12	¾-16	3000	**4VTA9**
1 5/16-12	7/8-14	2500	**4VTC1**
1 5/16-12	1 1/16-12	1800	**4VTC2**
1 5/16-12	1⅝-12	1500	**4VTC3**
1⅝-12	1 1/16-12	1800	**4VTC4**
1⅝-12	1 5/16-12	1600	**4VTC5**

(F)NPT Size	Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female NPT, Straight			
			
¼-18	7/16-20	4500	**4VRY2**
¼-18	9/16-18	4500	**4VRY3**
⅜-18	9/16-18	3500	**4VRY4**
⅜-18	¾-16	3500	**4VRY5**
⅜-18	7/8-14	3500	**4VRY6**
½-14	¾-16	3500	**4VRY7**
½-14	7/8-14	3500	**4VRY8**
½-14	1 1/16-12	3500	**4VRY9**
¾-14	7/8-14	3000	**4VRZ1**
¾-14	1 1/16-12	3000	**4VRZ2**
¾-14	1 5/16-12	3000	**4VRZ3**
1 - 11½	1 5/16-12	2500	**4VRZ4**

	Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male ORB, Plug			
			
	7/16 in-20	7500	**4VRU9**
	9/16 in-18	7500	**4VRV1**
	½ in-20	5000	**38YN85**
	¾ in-16	7500	**4VRV2**
	⅞ in-14	7500	**4VRV3**
	1 1/16 in-12	5000	**4VRV4**
	1 5/16 in-12	4500	**4VRV5**
	1⅝ in-12	2500	**38YN82**
	1⅞ in-12	2500	**38YN83**
	2½ in-12	2000	**38YN84**
Male SAE (ORB), Hex Socket Plug			
			
	7/16 in-20	7500	**4VRV6**
	9/16 in-18	7500	**4VRV7**
	¾ in-16	7500	**4VRV8**
	⅞ in-14	7500	**4VRV9**
	1 1/16 in-12	5000	**4VRW1**
	1 5/16 in-12	4500	**4VRW2**

Hydraulic Quick Couplers

EATON SAFEWAY

- Temp. range: -40 to 250°F, except Hansen models are -4 to 212°F

For additional information, see Grainger.com®.

Coupling Size	Body Material	Flow Rate	Max. Pressure	Thread Size	Mfr. Model	Item No.
5600						
¼ in	Steel	4 lpm	5000 psi	⅛"-27	5601-2-4S	**2F541**
	Steel	4 lpm	5000 psi	⅛"-27	5602-2-4S	**2F553**
	Steel	4 lpm	5000 psi	¼"-18	5601-4-4S	**2F543**
	Steel	4 lpm	5000 psi	¼"-18	5602-4-4S	**2F555**
⅜ in	Steel	6 lpm	4000 psi	⅜"-18	5602-6-6S	**2F557**
	Steel	23 lpm	4000 psi	⅜"-18	5601-6-6S	**2F545**
⅝ in	Steel	45 lpm	4000 psi	½"-14	5601-8-10S	**2F547**
	Steel	45 lpm	4000 psi	½"-14	5602-8-10S	**2F559**
¾ in	Steel	106 lpm	4000 psi	¾"-14	5601-12-12S	**2F537**
	Steel	106 lpm	4000 psi	¾"-14	5602-12-12S	**2F549**
1 in	Steel	189 lpm	4000 psi	1"-11-1/2	5601-16-16S	**2F539**
	Steel	189 lpm	4000 psi	1"-11-1/2	5602-16-16S	**2F551**
FD45, B						
¼ in	Steel	11 lpm	—	¼"-18	FD45-1003-0404	**2F625**
	Steel	11 lpm	—	¼"-18	FD45-1002-0404	**2F619**
⅜ in	Steel	23 lpm	4000 psi	⅜"-18	FD45-1002-0606	**2F621**
	Steel	23 lpm	4000 psi	⅜"-18	FD45-1003-0606	**2F627**
⅝ in	Steel	45.42 lpm	4000 psi	½"-14	FD45-1002-0810	**2F623**
	Steel	45.42 lpm	4000 psi	½"-14	FD45-1003-0810	**2F629**
¾ in	Steel	105.99 lpm	4000 psi	½"-14	FD45-1003-1212	**4HL87**
	Steel	106 lpm	4000 psi	¾"-14	FD45-1002-1212	**4HL85**
1 in	Steel	189 lpm	4000 psi	1"-11-1/2	FD45-1002-1616	**4HL86**
	Steel	189.27 lpm	4000 psi	½"-14	FD45-1003-1616	**4HL88**

No. 2F547

No. 2F559

No. 2F625

No. 2F619

For Use With	PLUGS Mfr. Model	Item No.	For Use With	CAPS Mfr. Model	Item No.
Eaton Series FD45 Dust Plugs & Caps					
2F625	FD45-1041-04	**4VPP6**	2F619	FD45-1040-04	**4VPN9**
2F627	FD45-1041-06	**4VPP7**	2F621	FD45-1040-06	**4VPP1**
2F629	FD45-1041-10	**4VPP8**	2F623	FD45-1040-10	**4VPP2**
4HL87	FD45-1041-12	**4VPP9**	4HL85	FD45-1040-12	**4VPP3**
4HL88	FD45-1041-16	**4VPR1**	4HL86	FD45-1040-16	**4VPP4**

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	COUPLER BODY Mfr. Model	COUPLER BODY Item No.	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.
5100 Series, FNPT								
¾"-14	¾"	3000 psi	10.0 gpm	B	5100-S5-12B	**4VTR8**	—	—
	¾"	3000 psi	18.0 gpm	B	—	—	5100-S2-12B	**4VTR6**
1"-11-1/2	1"	3000 psi	3.0 gpm	B	5100-S2-16B	**2F533**	—	—
	1"	3000 psi	40.0 gpm	B	5100-S5-16B	**2F535**	—	—
1¼"-11-1/2	1¼"	2750 psi	10.0 gpm	B	5100-S5-20B	**4VTR9**	—	—
	1¼"	2750 psi	75.0 gpm	B	—	—	5100-S2-20B	**4VTR7**

No. 2F533

No. 2F535

For Use With	PLUGS Mfr. Model	Item No.	For Use With	CAPS Mfr. Model	Item No.
Eaton Series 5100 Dust Plugs & Caps					
4VTR8	5100-S9-12	**4VPN5**	4VTR6	5100-S7-12	**4VPN2**
2F535	5100-S9-16	**4VPN6**	2F533	5100-S7-16	**4VPN3**
4VTR9	5100-S9-20	**4VPN7**	4VTR7	5100-S7-20	**4VPN4**

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	COUPLER BODY Mfr. Model	COUPLER BODY Item No.	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.
FD90 Series, FNPT								
¼"-18	¼"	7000 psi	0.5 gpm	S	FD90-1021-04-04	**4VTT5**	—	—
FD90 Series, FSAE								
7/16"-20	¼"	7000 psi	10.0 gpm	S	FD90-1041-04-04	**4VTT6**	—	—
FD90 Series, MNPT								
⅛"-27	¼"	7000 psi	10.0 gpm	S	—	—	FD90-1012-02-04	**4VTT3**
¼"-18	¼"	7000 psi	0.5 gpm	S	—	—	FD90-1012-04-04	**4VTT4**
FD90 Series, MSAE								
7/16"-20	¼"	7000 psi	3.0 gpm	S	—	—	FD90-1044-04-04	**4VTT7**
½"-20	¼"	7000 psi	3.0 gpm	S	—	—	FD90-1044-05-04	**4VTT8**
9/16"-18	¼"	7000 psi	26.0 gpm	S	—	—	FD90-1044-06-04	**4VTT9**

No. 4VTT5

No. 4VTT3

No. 4VTT7

For Use With	Mfr. Model	Item No.
Eaton Series FD90 Dust Cap		
4VTT3, 4VTT4, 4VTT7, 4VTT8, 4VTT9	FD90-1040-04	**4VPR2**

No. 4VPR2

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	Mfr. Model	Item No.	COUPLER BODY Mfr. Model	COUPLER BODY Item No.	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.
Safeway Series S70, FNPT										
½"-14	½"	3000 psi	6.0 gpm	S	—	—	S75-4	**4VTZ8**	—	—
Safeway Series S30, FNPT										
⅜"-18	⅜"	10,000 psi	6.0 gpm	S	—	—	—	—	S31-3P	**4VTT1**
Safeway Series S30, MNPT										
⅜"-18	⅜"	10,000 psi	6.0 gpm	S	—	—	S35-3P	**4VTT2**	—	—
Safeway Series S20, FNPT										
¼"-18	¼"	3000 psi	12.0 gpm	S	—	—	—	—	S41-2P	**4YNX4**
	¼"	3000 psi	50.0 gpm	S	—	—	S25A-2P	**4VTN6**	—	—
⅜"-18	⅜"	3000 psi	75.0 gpm	S	—	—	—	—	S41-3P	**4VTP7**
½"-14	½"	3000 psi	12.0 gpm	S	—	—	S25-4P	**4VTN8**	S71-4P	**4VTP8**
¾"-14	¾"	3000 psi	28.0 gpm	S	—	—	S25F-6	**4VTZ6**	S21F-6	**4VTZ4**
1"-11-1/2	1"	3000 psi	6.0 gpm	S	—	—	S25-8P	**4VTN9**	—	—
	1"	3000 psi	10.0 gpm	S	—	—	—	—	S21-8P	**4VTZ3**
Safeway Series S20, FSAE										
7/16"-14	½"	3000 psi	12.0 gpm	S	—	—	—	—	S71-16	**4VTR4**
Safeway Series S20, ORB										
	½"	3000 psi	3.0 gpm	S	—	—	S25-15	**4VTP1**	—	—
¾"-16	½"	3000 psi	4.0 gpm	S	—	—	—	—	S71-15	**4VTR2**
	½"	3000 psi	26.0 gpm	S	—	—	—	—	S71-15P	**4VTR3**
	½"	3000 psi	50.0 gpm	S	—	—	S25-15P	**4VTP2**	—	—
	½"	3000 psi	10.0 gpm	S	—	—	S25-16	**4VTP3**	—	—
7/8"-14	½"	3000 psi	10.0 gpm	S	—	—	S25-16P	**4VTP4**	—	—
	½"	3000 psi	12.0 gpm	S	—	—	—	—	S71-16P	**4VTR5**
Safeway Series S40, FNPT										
	½"	3000 psi	12.0 gpm	S	—	—	—	—	S71-6P	**4VTR1**
¾"-14	½"	3000 psi	12.0 gpm	S	—	—	S45-6	**4VTP5**	S71-6	**4VTP9**
	½"	3000 psi	18.0 gpm	S	—	—	S45-6P	**4VTP6**	—	—
Safeway Series SS20,										
—	—	3000 psi	—	—	S25A-2	**2F773**	—	—	—	—
	—	3000 psi	—	—	S25-4	**2F771**	—	—	—	—
	—	3000 psi	—	—	S41-3	**2F777**	—	—	—	—
	—	3000 psi	—	—	S71-4	**2F781**	—	—	—	—
	—	3000 psi	—	—	S41-2	**2F775**	—	—	—	—
Safeway Series SS40,										
—	—	3000 psi	—	—	S45-3	**2F779**	—	—	—	—
Safeway Series FF49,										
—	—	10,000 psi	—	—	FF495-3	**4VTX1**	—	—	—	—
Safeway Series FF49, FNPT										
⅜"-18	⅜"	10,000 psi	26.0 gpm	S	—	—	—	—	FF491-3	**4VTX3**
½"-14	⅜"	10,000 psi	12.0 gpm	S	—	—	FF495-3-1/2	**4VTX2**	FF491-4	**4VTX4**
Safeway Series FFE49, FNPT										
½"-14	¾"	4000 psi	26.0 gpm	S	—	—	FFE495-4	**4VTX6**	—	—
	¾"	4000 psi	28.0 gpm	S	—	—	—	—	FFE491-4	**4VTY3**
¾"-14	¾"	4000 psi	10.0 gpm	S	—	—	FFE495-4-3/4	**4VTX7**	—	—
	1"	4000 psi	12.0 gpm	S	—	—	—	—	FFE491-6	**4VTY5**
	¾"	4000 psi	28.0 gpm	S	—	—	—	—	FFE491-4-3/4	**4VTY4**
	1"	4000 psi	50.0 gpm	S	—	—	FFE495-6	**4VTX8**	—	—
	1¼"	3000 psi	50.0 gpm	S	—	—	—	—	FFE491-8	**4VTY7**
1"-11-1/2	1"	4000 psi	12.0 gpm	S	—	—	FFE495-6-1	**4VTX9**	—	—
	1"	4000 psi	26.0 gpm	S	—	—	—	—	FFE491-6-1	**4VTY6**

No. 4VTT1

No. 2F775

No. 2F773

No. 2F781

No. 4VTX1

No. 4VTX3

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	COUPLER BODY, FLAT FACE Mfr. Model	COUPLER BODY, FLAT FACE Item No.	COUPLER NIPPLE, FLAT FACE Mfr. Model	COUPLER NIPPLE, FLAT FACE Item No.
Hansen Series FF, FNPT								
¼"-18	¼"	5075 psi	12.0 gpm	ZPS	6FFS25	**33M277**	6FFP25	**33M283**
⅜"-18	⅜"	5075 psi	6.0 gpm	ZPS	10FFS37	**33M280**	10FFP37	**33M292**
½"-14	½"	5075 psi	12.0 gpm	ZPS	12FFS50	**33M274**	12FFP50	**33M286**
¾"-14	¾"	5075 psi	12.0 gpm	ZPS	19FFS75	**33M294**	19FFP75	**33M289**
1"-11-1/2	1"	5075 psi	46.8 gpm	ZPS	25FFS100	**33M273**	—	—
	1"	5075 psi	50.0 gpm	ZPS	—	—	25FFP100	**33M285**
Hansen Series FF, FSAE								
9/16"-18	½"	5075 psi	7.2 gpm	ZPS	—	—	6FFP56UN	**33M284**
	½"	5075 psi	27.0 gpm	ZPS	6FFS56UN	**33M278**	—	—
	⅜"	5075 psi	6.0 gpm	ZPS	10FFS75UN	**33M281**	10FFP75UN	**33M293**
¾"-16	½"	5075 psi	13.0 gpm	ZPS	—	—	12FFP75UN	**33M287**
	½"	5075 psi	14.0 gpm	ZPS	12FFS75UN	**33M275**	—	—
7/8"-14	½"	5075 psi	12.0 gpm	ZPS	—	—	12FFP87UN	**33M288**
	½"	5075 psi	3.8 gpm	ZPS	12FFS106UN	**33M276**	—	—
1 1/16"-12	¾"	5075 psi	12.0 gpm	ZPS	16FFS106UN	**33M279**	16FFP106UN	**33M291**
	½"	5075 psi	12.0 gpm	ZPS	—	—	12FFP106UN	**33M282**
	¾"	5075 psi	26.0 gpm	ZPS	—	—	19FFP106UN	**33M290**

*** B = Brass, S = Steel, ZPS = Zinc Plated Steel.***

No. 33M273

No. 33M282

High-Pressure Hydraulic Couplers

ENERPAC SAFEWAY

- Max. working pressure: 10,000 psi

ENERPAC

Dust caps included (except flush-face model).

High-Flow—Poppet-style with crimped seal retention.

Flush-Face—Engage sleeve-locking mechanism by rotating sleeve after connection. Zero leaks.

SAFEWAY

S30 Series—Heavy-duty poppet valving, while fully interchangeable with ball check models (including older SafeWay product), eliminates low pressure leakage.

¼" High-Pressure Coupler Set—Use with No. 6W461 hand pump on page 2466 and No. 6Z782 cylinder on page 2468. Dust cap for female half only.



No. 6BU53



No. 2F769

Description	Brand	Mfr. Model	Item No.
Couplers			
⅜"-18 High-Flow Coupler Set	Enerpac	C604	**6BU53**
⅜"-18 High-Flow Female Coupler	Enerpac	CR400	**6BU55**
⅜"-18 High-Flow Male Coupler	Enerpac	CH604	**6BU54**
⅜"-18 Flush-Face Coupler Set	Enerpac	F-604	**5ZL40**
⅜"-18 Flush-Face Male Coupler	Enerpac	FH604	**4YDV8**
⅜"-18 Flush-Face Female Coupler	Enerpac	FR400	**4YDV9**
⅜"-18 Regular Spee-D-Coupler® Set	Enerpac	A604	**46C607**
⅜"-18 Regular Female Spee-D-Coupler®	Enerpac	AR400	**46C610**

Description	Brand	Mfr. Model	Item No.
Couplers (Cont.)			
⅜"-18 Regular Male Spee-D-Coupler®	Enerpac	AH604	**46C608**
¼"-18 Regular Female Coupler	Enerpac	AR630	**46C611**
¼"-18Regular Male Coupler	Enerpac	AH630	**46C609**
⅜"-18 High-Pressure Coupler Set	Safeway Hydraulics	S30-3P	**2F769**
¼"-18 High-Pressure Coupler Set	Safeway Hydraulics	S30-2P	**3KD28**
⅜"-18 High-Pressure Female Coupler	Safeway Hydraulics	S35-3P	**4VTT2**
⅜"-18 High-Pressure Male Coupler	Safeway Hydraulics	S31-3P	**4VTT1**
⅜"-18 Flush-Face Male Coupler	Safeway Hydraulics	FF491-3	**4VTX3**
Metal Coupler Dust Caps For C-604 Series Only			
Set (Includes Male and Female)	Enerpac	CD411	**3PCV2**
Female	Enerpac	CD411M	**3PCV3**
Male	Enerpac	CD415M	**3PCV4**


No. 31A788


No. 31A926


No. 31A851


No. 31A845


No. 31A897


No. 31A885


No. 31A887


No. 31A832


No. 31A821


No. 31A798


No. 31A803


No. 31A792


No. 31A952


No. 31A988


No. 31A977


No. 31A914

Hydraulic Quick Couplers

Parker

- Temp. range: -40 to 250°F, except 3000 Series are -22 to 230°F

For additional information, see Grainger.com®.

Coupling Size	Body Material*	Max. Flow Rate	Thread Size	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.	COUPLER BODY Mfr. Model	COUPLER BODY Item No.
3000, FNPT							
¼"	S	11.36 LPM	¼"-18	3010-2	**31A790**	—	—
⅜"	S	22.71 LPM	⅜"-18	3010-3	**31A791**	—	—
3000, MNPT							
¼"	S	11.36 LPM	¼"-18	—	—	3050-2	**31A788**
⅜"	S	22.71 LPM	⅜"-18	—	—	3050-3	**31A789**
4000, FNPT							
¼"	S	11.36 LPM	¼"-18	4010-2P	**31A940**	4050-2P	**31A930**
⅜"	S	22.71 LPM	⅜"-18	4010-3P	**31A941**	4050-3P	**31A931**
½"	S	45.42 LPM	½"-14	—	—	4050-4	**31A932**
	S	45.42 LPM	½"-14	—	—	4050-4P	**31A933**
	S	45.42 LPM	¾"-14	—	—	4050-5	**31A934**
	S	45.42 LPM	¾"-14	—	—	4050-5P	**31A935**
¾"	S	105.99 LPM	¾"-14	—	—	4150-5	**31A938**
1"	S	189.27 LPM	1"-11-1/2	4010-6P	**31A942**	—	—
	S	189.30 LPM	1"-11-1/2	—	—	4050-6P	**31A936**
4000, ORB							
¼"	S	11.36 LPM	9⁄16"-18	4010-T6	**31A943**	4050-T6	**31A937**
½"	S	45.42 LPM	¾"-16	—	—	4050-15	**31A926**
	S	45.42 LPM	¾"-16	—	—	4050-15P	**31A927**
	S	45.42 LPM	⅞"-14	—	—	4050-16	**31A928**
	S	45.42 LPM	⅞"-14	—	—	4050-16P	**31A929**
4200, FNPT							
½"	S	45.42 LPM	½"-14	—	—	4250-4	**31A939**
60, FNPT, ISO 7241-1 Serie B							
⅛"	S	3 LPM	⅛"-27	—	—	H1-62	**31A851**
½"	316	45 LPM	½"-14	SSH4-63Y	**31A911**	—	—
60, FNPT, ISO 7241-1 Series B							
⅛"	B	3 LPM	⅛"-27	BH1-61	**31A879**	BH1-60	**31A845**
	303	3 LPM	⅛"-27	SH1-63	**31A897**	SH1-62	**31A863**
	316	3 LPM	⅛"-27	SSH1-63Y	**31A909**	SSH1-62Y	**31A874**
	S	3 LPM	⅛"-27	H1-63	**31A885**	—	—
¼"	B	11 LPM	¼"-18	BH2-61	**31A880**	BH2-60	**31A846**
	S	11 LPM	½"-14	H2-63	**31A887**	H2-62	**31A853**
	303	11 LPM	¼"-18	SH2-63	**31A898**	SH2-62	**31A864**
	316	11 LPM	¼"-18	SSH2-63Y	**31A910**	SSH2-62Y	**31A875**
⅜"	B	23 LPM	⅜"-18	BH3-61	**31A881**	BH3-60	**31A847**
	S	23 LPM	⅜"-18	H3-63	**31A889**	H3-62	**31A855**
	303	23 LPM	⅜"-18	SH3-63	**31A901**	SH3-62	**31A866**
	316	45 LPM	½"-14	—	—	SSH4-62Y	**31A876**
½"	S	45 LPM	½"-14	H4-63	**31A891**	H4-62	**31A857**
	B	45 LPM	½"-14	BH4-61	**31A882**	BH4-60	**31A848**
	303	45 LPM	½"-14	SH4-63	**31A903**	SH4-62	**31A868**
¾"	B	106 LPM	¾"-14	BH6-61	**31A883**	BH6-60	**31A849**
	S	106 LPM	¾"-14	H6-63	**31A893**	H6-62	**31A859**
	303	106 LPM	¾"-14	SH6-63	**31A905**	SH6-62	**31A870**
	316	106 LPM	¾"-14	SSH6-63Y	**31A912**	SSH6-62Y	**31A877**
⅞"	S	45 LPM	⅞"-14	H4-63-T10	**31A892**	—	—
1"	B	189 LPM	1"-11-1/2	BH8-61	**31A884**	BH8-60	**31A850**
	S	189 LPM	1"-11-1/2	H8-63	**31A895**	H8-62	**31A861**
	303	189 LPM	1"-11-1/2	SH8-63	**31A907**	SH8-62	**31A872**
	316	189 LPM	1"-11-1/2	SSH8-63Y	**31A913**	SSH8-62Y	**31A878**
60, FSAE, ISO 7241-1 Series B							
¼"	S	11 LPM	9⁄16"-18	H2-63-T6	**31A888**	H2-62-T6	**31A854**
¾"	S	23 LPM	¾"-14	—	—	H3-62-T8	**31A856**
	S	23 LPM	¾"-16	H3-63-T8	**31A890**	—	—
60, ORB, ISO 7241-1 Series B							
⅛"	S	3 LPM	7⁄16"-20	H1-63-T4	**31A886**	H1-62-T4	**31A852**
¼"	303	11 LPM	9⁄16"-18	SH2-63-T6	**31A899**	SH2-62-T6	**31A865**
⅜"	303	23 LPM	¾"-16	SH3-63-T8	**31A902**	SH3-62-T8	**31A867**
½"	303	45 LPM	⅞"-14	SH4-63-T10	**31A904**	SH4-62-T10	**31A869**
¾"	S	106 LPM	1 1⁄16"-12	H6-63-T12	**31A894**	H6-62-T12	**31A860**
	303	106 LPM	1 1⁄16"-12	SH6-63-T12	**31A906**	SH6-62-T12	**31A871**
⅞"	S	45 LPM	⅞"-14	—	—	H4-62-T10	**31A858**
1"	S	189 LPM	1 5⁄16"-12	H8-63-T16	**31A896**	H8-62-T16	**31A862**
	303	189 LPM	1 5⁄16"-12	SH8-63-T16	**31A908**	SH8-62-T16	**31A873**
6600, FNPT, ISO 7241-1 Series A							
¼"	S	11.36 LPM	⅛"-27	6602-2-4	**31A835**	6601-2-4	**31A824**
	S	11.36 LPM	¼"-18	6602-4-4	**31A836**	6601-4-4	**31A825**
⅜"	S	22.71 LPM	⅜"-18	6602-6-6	**31A837**	6601-6-6	**31A826**
½"	S	45.42 LPM	¾"-14	6602-12-10	**31A832**	6601-12-10	**31A821**
	S	45.42 LPM	½"-14	6602-8-10	**31A838**	6601-8-10	**31A827**
¾"	S	105.99 LPM	¾"-14	—	—	6601-12-12	**31A822**
	S	106 LPM	¾"-14	6602-12-12	**31A833**	—	—
1"	S	189.27 LPM	1"-11-1/2	6602-16-16	**31A834**	6601-16-16	**31A823**
6600, FSAE, ISO 7241-1 Series A							
⅜"	S	22.71 LPM	9⁄16"-18	6610-6-6	**31A843**	—	—
½"	S	45.42 LPM	¾"-16	—	—	6608-8-10	**31A831**
6600, ORB, ISO 7241-1 Series A							
⅜"	S	22.71 LPM	9⁄16"-18	—	—	6608-6-6	**31A830**
½"	S	45.42 LPM	¾"-16	—	—	6608-8-10	**31A831**
½"	S	45.42 LPM	1 1⁄16"-12	6610-10-10	**31A839**	6608-10-10	**31A828**
	S	45.42 LPM	1 1⁄16"-12	6610-12-10	**31A840**	6608-12-10	**31A829**
	S	45.42 LPM	¾"-16	6610-8-10	**31A844**	—	—
¾"	S	106 LPM	1 1⁄16"-12	6610-12-12	**31A841**	—	—
1"	S	189.30 LPM	1 5⁄16"-12	6610-16-16	**31A842**	—	—
8010, FNPT							
½"	S	45.42 LPM	½"-14	8010-4	**31A948**	—	—
	S	45.42 LPM	½"-14	8010-4P	**31A949**	—	—
	S	45.42 LPM	¾"-14	8010-5	**31A950**	—	—
	S	45.42 LPM	¾"-14	8010-5P	**31A951**	—	—
8010, ORB							
½"	S	45.42 LPM	¾"-14	8010-15	**31A944**	—	—
	S	45.42 LPM	¾"-14	8010-15P	**31A945**	—	—
	S	45.42 LPM	⅞"-14	8010-16	**31A946**	—	—
	S	45.42 LPM	⅞"-14	8010-16P	**31A947**	—	—
FEM, FNPT, Flush Face, ISO 16028							
¼"	S	11.36 LPM	¼"-18	—	—	FEM-251-4FP-NL	**31A798**
⅜"	S	22.71 LPM	⅜"-18	FEM-372-6FP	**31A813**	—	—
½"	S	45.42 LPM	½"-14	FEM-502-8FP	**31A818**	FEM-501-8FP-NL	**31A807**
¾"	S	98.42 LPM	¾"-14	—	—	FEM-751-12FP-NL	**31A810**
FEM, FSAE, Flush Face, ISO 16028							
½"	S	45.42 LPM	1 1⁄16"-12	FEM-502-12FO	**31A816**	FEM-501-12FO-NL	**31A805**
9⁄16"	S	11.36 LPM	9⁄16"-18	FEM-252-6FO	**31A812**	FEM-251-6FO-NL	**31A799**
⅝"	S	75.71 LPM	1 1⁄16"-12	—	—	FEM-621-12FO-NL	**31A808**
¾"	S	22.71 LPM	¾"-16	FEM-372-8FO	**31A814**	FEM-371-8FO-NL	**31A802**
	S	45.42 LPM	¾"-16	FEM-502-8FO	**31A817**	FEM-501-8FO-NL	**31A806**
	S	98.42 LPM	1 1⁄16"-12	FEM-752-12FO	**31A819**	FEM-751-12FO-NL	**31A809**
⅞"	S	45.42 LPM	⅞"-14	FEM-502-10FO	**31A815**	FEM-501-10FO-NL	**31A804**
FEM, MSAE, Flush Face, ISO 16028							
⅞"	S	45.42 LPM	⅞"-14	—	—	FEM-501-10BMF-NL	**31A803**
FEM, NPSF, Flush Face, ISO 16028							
¼"	S	11.36 LPM	¼"-18	FEM-252-4FP	**31A811**	—	—
⅜"	S	22.71 LPM	⅜"-18	—	—	FEM-371-6FP-NL	**31A801**
¾"	S	98.42 LPM	¾"-14	FEM-752-12FP	**31A820**	—	—
FF, FNPT, Flush Face							
⅜"	S	22.71 LPM	⅜"-18	FF-372-6FP	**31A795**	FF-371-6FP	**31A792**
	S	22.71 LPM	½"-14	FF-372-8FP	**31A797**	FF-371-8FP	**31A794**
FF, FSAE, Flush Face							
⅜"	S	22.71 LPM	¾"-16	FF-372-8FO	**31A796**	FF-371-8FO	**31A793**
ST, FNPT Straight Thru							
⅛"	B	11.36 LPM	⅛"-27	BST-N1	**31A976**	BST-1	**31A952**
	B	11.36 LPM	⅛"-27	—	—	BST-1M	**31A953**
	303	11.36 LPM	⅛"-27	SST-N1	**31A988**	SST-1	**31A964**
	303	11.36 LPM	⅛"-27	SST-N1M	**31A989**	—	—
¼"	B	22.71 LPM	¼"-18	BST-N2	**31A978**	BST-2	**31A954**
	B	22.71 LPM	¼"-18	—	—	BST-2M	**31A955**
	303	22.71 LPM	¼"-18	SST-N2	**31A990**	SST-2	**31A966**
⅜"	B	45.42 LPM	⅜"-18	BST-N3	**31A980**	BST-3	**31A956**
	B	45.42 LPM	⅜"-18	—	—	BST-3M	**31A957**
	303	45.43 LPM	⅜"-18	SST-N3	**31A992**	SST-3	**31A968**
½"	B	45.42 LPM	½"-14	BST-N4	**31A982**	BST-4	**31A958**
	B	45.42 LPM	½"-14	—	—	BST-4M	**31A959**
	303	45.43 LPM	½"-14	SST-N4	**31A994**	SST-4	**31A970**
¾"	303	105.99 LPM	¾"-14	SST-N6	**31A996**	SST-6	**31A972**
	303	105.99 LPM	¾"-14	—	—	SST-6M	**31A973**
	B	106 LPM	¾"-14	BST-N6	**31A984**	BST-6	**31A960**
	B	106 LPM	¾"-14	—	—	BST-6M	**31A961**
1"	303	189.27 LPM	1"-11-1/2	SST-N8	**31A998**	SST-8	**31A974**
	B	189.30 LPM	1"-11-1/2	BST-N8	**31A986**	BST-8	**31A962**
	B	189.30 LPM	1"-11-1/2	BST-N8M	**31A987**	—	—
ST, MNPT							
⅛"	303	11.36 LPM	⅛"-27	—	—	SST-1M	**31A965**
	B	11.36 LPM	⅛"-27	BST-N1M	**31A977**	—	—
¼"	303	22.71 LPM	¼"-18	SST-N2M	**31A991**	SST-2M	**31A967**
	B	22.71 LPM	¼"-18	BST-N2M	**31A979**	—	—
⅜"	B	45.42 LPM	⅜"-18	BST-N3M	**31A981**	—	—
	303	45.43 LPM	⅜"-18	SST-N3M	**31A993**	SST-3M	**31A969**
½"	B	45.42 LPM	½"-14	BST-N4M	**31A983**	—	—
	303	45.43 LPM	½"-14	SST-N4M	**31A995**	SST-4M	**31A971**
¾"	303	105.99 LPM	¾"-14	SST-N6M	**31A997**	—	—
	B	106 LPM	¾"-14	BST-N6M	**31A985**	—	—
1"	303	189.27 LPM	1"-11-1/2	SST-N8M	**31A999**	SST-8M	**31A975**
	B	189.30 LPM	1"-11-1/2	—	—	BST-8M	**31A963**

Description	PLUGS Mfr. Model	PLUGS Item No.	CAPS Mfr. Model	CAPS Item No.
Parker 60 Series Dust Plugs & Caps				
⅛"	H1-65M	**31A920**	H1-66M	**31A914**
¼"	H2-65M	**31A921**	H2-66M	**31A915**
⅜"	H3-65M	**31A922**	H3-66M	**31A916**
½"	H4-65M	**31A923**	H4-66M	**31A917**
¾"	H6-65M	**31A924**	H6-66M	**31A918**
1"	H8-65M	**31A925**	H8-66M	**31A919**

** B = Brass, 303 = 303 Stainless Steel, 316 = 316 Stainless Steel, S = Steel.*

Coupling Size	Body Material	Max. Flow Rate	Thread Size	Coupler (Body) Flow Rate	Coupler (Body) Mfr. Model	Coupler (Body) Item No.	Coupler Plug (Nipple) Flow Rate	Coupler Plug (Nipple) Mfr. Model	Coupler Plug (Nipple) Item No.
71 Series, Flush Face									
FNPT									
¼"	316 SS	18.93 LPM	¼"-18	5.0 gpm	S71-3C4-4FV	**20LH22**	5.0 gpm	S71-3N4-4FV	**20LH41**
	High Pressure SS	18.93 LPM	¼"-18	5.0 gpm	SH71-3C4-4FV	**20LG01**	5.0 gpm	SH71-3N4-4FV	**20LG10**
	Steel	18.93 LPM	¼"-18	5.0 gpm	71-3C4-4F	**20LJ60**	5.0 gpm	71-3N4-4F	**20LJ83**
⅜"	316 SS	45.42 LPM	⅜"-18	12.0 gpm	S71-3C6-6F	**20LH25**	12.0 gpm	S71-3N6-6F	**20LH44**
	High Pressure SS	45.42 LPM	⅜"-18	12.0 gpm	SH71-3C6-6FV	**20LG04**	12.0 gpm	SH71-3N6-6FV	**20LG13**
	Steel	45.42 LPM	⅜"-18	12.0 gpm	71-3C6-6F	**20LJ64**	12.0 gpm	71-3N6-6F	**20LJ87**
½"	316 SS	75.70 LPM	½"-14	20.0 gpm	S71-3C8-8FV	**20LH29**	20.0 gpm	S71-3N8-8FV	**20LH49**
	Steel	75.71 LPM	½"-14	20.0 gpm	71-3C8-8F	**20LJ70**	20.0 gpm	71-3N8-8F	**20LJ92**
¾"	316 SS	151.40 LPM	¾"-14	40.0 gpm	S71-3C12-12FV	**20LH13**	40.0 gpm	S71-3N12-12FV	**20LH33**
	High Pressure SS	151.42 LPM	¾"-14	40.0 gpm	SH71-3C12-12F	**20LF97**	40.0 gpm	SH71-3N12-12F	**20LG06**
	Steel	151.4 LPM	¾"-14	40.0 gpm	71-3C12-12F	**20LJ51**	40.0 gpm	71-3N12-12F	**20LJ74**
1"	316 SS	227.10 LPM	1"-11-1/2	60.0 gpm	S71-3C16-16FV	**20LH17**	60.0 gpm	S71-3N16-16F	**20LH36**
	316 SS	227.10 LPM	1¼"-11-1/2	60.0 gpm	S71-3C16-20F	**20LH19**	—	—	—
	High Pressure SS	227.12 LPM	1"-11-1/2	60.0 gpm	SH71-3C16-16F	**20LF98**	60.0 gpm	SH71-3N16-16F	**20LG07**
	Steel	227.10 LPM	1"-11-1/2	60.0 gpm	71-3C16-16F	**20LJ55**	60.0 gpm	71-3N16-16F	**20LJ78**
	Steel	227.10 LPM	1¼"-11-1/2	60.0 gpm	71-3C16-20F	**20LJ58**	60.0 gpm	71-3N16-20F	**20LJ81**
EA Series, Poppet									
¼"	316 SS	14.38 LPM	¼"-18	3.8 gpm	SPEAC4-4F	**20LG17**	3.8 gpm	SVEAN4-4F	**20LG55**
	316 SS	14.38 LPM	¼"-18	3.8 gpm	SVEAC4-4F	**20LG48**	—	—	—
	316 SS	53 LPM	¼"-18	—	—	—	14.0 gpm	SPEAN4-4F	**20LG19**
	Steel	14.38 LPM	¼"-18	3.8 gpm	VEAC4-4F	**20LH52**	—	—	—
	Steel	94.64 LPM	¼"-18	—	—	—	3.8 gpm	VEAN4-4F	**20LH64**
⅜"	Brass	27.252 LPM	⅜"-18	7.2 gpm	BVEAC6-6F	**20LF06**	—	—	—
	Brass	102.20 LPM	⅜"-18	—	—	—	27.0 gpm	BVEAN6-6F	**20LF11**
	Steel	18.925 LPM	⅜"-18	5.0 gpm	VEAC6-6F	**20LH56**	—	—	—
	Steel	94.64 LPM	⅜"-18	—	—	—	5.0 gpm	VEAN6-6F	**20LH67**
½"	Brass	14.38 LPM	½"-14	3.8 gpm	BVEAC8-8F	**20LF08**	—	—	—
	Brass	264.95 LPM	½"-14	—	—	—	70.0 gpm	BVEAN8-8F	**20LF13**
	Steel	52.99 LPM	½"-14	14.0 gpm	VEAC8-8F	**20LH59**	—	—	—
	Steel	53 LPM	½"-14	—	—	—	14.0 gpm	VEAN8-8F	**20LH70**
¾"	Brass	14.38 LPM	¾"-14	—	—	—	3.8 gpm	BVEAN12-12F	**20LF09**
	Brass	208.23 LPM	¾"-14	55.0 gpm	BVEAC12-12F	**20LF04**	—	—	—
	Steel	94.64 LPM	¾"-14	25.0 gpm	VEAC12-12F	**20LH50**	25.0 gpm	VEAN12-12F	**20LH62**
H Series, Poppet									
¼"	316 SS	14.38 LPM	¼"-18	3.8 gpm	SVHC4-4F	**20LG73**	3.8 gpm	SVHN4-4F	**20LG98**
	316 SS	14.38 LPM	¼"-18	3.8 gpm	SVHC4-4FV	**20LG74**	3.8 gpm	SVHN4-4FV	**20LG99**
	Brass	132.48 LPM	¼"-18	35.0 gpm	BVHC4-4F	**20LF24**	—	—	—
	Brass	264.95 LPM	¼"-18	—	—	—	70.0 gpm	BVHN4-4F	**20LF44**
	Steel	14.38 LPM	¼"-18	—	—	—	3.8 gpm	VHN4-4F	**20LJ22**
	Steel	14.384 LPM	¼"-18	3.8 gpm	VHC4-4F	**20LH89**	—	—	—
⅜"	316 SS	18.93 LPM	⅜"-18	5.0 gpm	SVHC6-6FV	**20LG78**	—	—	—
	Brass	49.21 LPM	⅜"-18	—	—	—	13.0 gpm	BVHN6-6F	**20LF48**
	Brass	272.52 LPM	⅜"-18	72.0 gpm	BVHC6-6F	**20LF28**	—	—	—
	Steel	18.93 LPM	⅜"-18	5.0 gpm	VHC6-6F	**20LH95**	5.0 gpm	VHN6-6F	**20LJ27**
½"	316 SS	53 LPM	½"-14	14.0 gpm	SVHC8-8FV	**20LG82**	14.0 gpm	SVHN8-8FV	**20LH08**
	Brass	132.48 LPM	½"-14	35.0 gpm	BVHC8-8F	**20LF31**	—	—	—
	Brass	151.4 LPM	½"-14	—	—	—	40.0 gpm	BVHN8-8F	**20LF51**
	Steel	52.99 LPM	½"-14	14.0 gpm	VHC8-8F	**20LJ04**	—	—	—
	Steel	53 LPM	½"-14	—	—	—	14.0 gpm	VHN8-8F	**20LJ33**
¾"	316 SS	94.625 LPM	¾"-14	25.0 gpm	SVHC12-12FV	**20LG61**	—	—	—
	316 SS	95 LPM	¾"-14	—	—	—	25.0 gpm	SVHN12-12FV	**20LG86**
	Brass	94.63 LPM	¾"-14	—	—	—	25.0 gpm	BVHN12-12F	**20LF35**
	Brass	681.30 LPM	¾"-14	180.0 gpm	BVHC12-12F	**20LF15**	—	—	—
	Steel	94.63 LPM	¾"-14	25.0 gpm	VHC12-12F	**20LH76**	—	—	—
	Steel	94.64 LPM	¾"-14	—	—	—	25.0 gpm	VHN12-12F	**20LJ09**
1"	316 SS	132.475 LPM	1"-11-1/2	35.0 gpm	SVHC16-16FV	**20LG64**	—	—	—
	316 SS	132.50 LPM	1"-11-1/2	—	—	—	35.0 gpm	SVHN16-16FV	**20LG89**
	Brass	14.38 LPM	1"-11-1/2	3.8 gpm	BVHC16-16F	**20LF18**	—	—	—
	Brass	49.21 LPM	1"-11-1/2	—	—	—	13.0 gpm	BVHN16-16F	**20LF38**
	Steel	132.48 LPM	1⅜"-12	—	—	—	35.0 gpm	VHN16-16F	**20LJ14**
	Steel	132.49 LPM	1"-11-1/2	35.0 gpm	VHC16-16F	**20LH80**	—	—	—
1¼"	316 SS	208.20 LPM	1¼"-11-1/2	55.0 gpm	SVHC20-20FV	**20LG67**	—	—	—
	Brass	18.93 LPM	1¼"-11-1/2	5.0 gpm	BVHC20-20F	**20LF21**	—	—	—
	Brass	102.20 LPM	1¼"-11-1/2	—	—	—	27.0 gpm	BVHN20-20F	**20LF41**
	Steel	208 LPM	1¼"-11-1/2	55.0 gpm	VHC20-20F	**20LH83**	55.0 gpm	VHN20-20F	**20LJ18**
1½"	316 SS	272.52 LPM	1½"-11-1/2	72.0 gpm	SVHC24-24FV	**20LG69**	—	—	—
	316 SS	272.55 LPM	1½"-11-1/2	—	—	—	72.0 gpm	SVHN24-24FV	**20LG95**
	Brass	18.93 LPM	1½"-11-1/2	5.0 gpm	BVHC24-24F	**20LF22**	—	—	—
	Brass	151.40 LPM	1½"-11-1/2	—	—	—	40.0 gpm	BVHN24-24F	**20LF42**
	Steel	272.50 LPM	1½"-11-1/2	72.0 gpm	VHC24-24F	**20LH84**	—	—	—
2"	316 SS	681.30 LPM	2"-11-1/2	180.0 gpm	SVHC32-32FV	**20LG71**	—	—	—
	316 SS	681.37 LPM	2"-11-1/2	—	—	—	180.0 gpm	SVHN32-32F	**20LG96**
	Brass	94.63 LPM	2"-11-1/2	25.0 gpm	BVHC32-32F	**20LF23**	—	—	—
	Brass	151.40 LPM	2"-11-1/2	—	—	—	40.0 gpm	BVHN32-32F	**20LF43**
	Steel	681.30 LPM	2"-11-1/2	180.0 gpm	VHC32-32F	**20LH85**	—	—	—
FSAE									
¼"	Steel	14.384 LPM	7/16"-20	3.8 gpm	VHC4-4EF	**20LH87**	—	—	—
⅜"	Steel	18.93 LPM	9/16"-18	5.0 gpm	VHC6-6EF	**20LH93**	—	—	—
½"	Steel	52.99 LPM	¾"-16	14.0 gpm	VHC8-8EF	**20LJ01**	—	—	—
	Steel	53 LPM	¾"-16	—	—	—	14.0 gpm	VHN8-8EF	**20LJ31**
¾"	Steel	94.64 LPM	1 1/16"-12	—	—	—	25.0 gpm	VHN12-12EF	**20LJ07**
1"	Steel	132.48 LPM	¾"-14	—	—	—	35.0 gpm	VHN16-16EF	**20LJ13**
	Steel	132.49 LPM	1"-5/16-12	35.0 gpm	VHC16-16EF	**20LH79**	—	—	—
Snap-Tite H Series, Poppet									
FNPT									
⅜"	316 SS	18.925 LPM	⅜"-18	—	—	—	5.0 gpm	SVHN6-6FV	**20LH05**
1¼"	316 SS	208.175 LPM	1¼"-11-1/2	—	—	—	55.0 gpm	SVHN20-20FV	**20LG92**
1½"	Steel	272.52 LPM	1½"-11-1/2	—	—	—	72.0 gpm	VHN24-24F	**20LJ19**
2"	Steel	681.30 LPM	2"-11-1/2	—	—	—	180.0 gpm	VHN32-32F	**20LJ20**
Straight Through H Series									
¼"	Steel	14.38 LPM	¼"-18	3.8 gpm	PHC4-4F	**20LF75**	3.8 gpm	PHN4-4F	**20LF91**
⅜"	Steel	27.25 LPM	⅜"-18	7.2 gpm	PHC6-6F	**20LF77**	7.2 gpm	PHN6-6F	**20LF93**
½"	Steel	53 LPM	½"-14	14.0 gpm	PHC8-8F	**20LF79**	14.0 gpm	PHN8-8F	**20LF95**
¾"	Steel	102.20 LPM	¾"-14	—	—	—	27.0 gpm	PHN12-12F	**20LF81**
	Steel	908.40 LPM	¾"-14	240.0 gpm	PHC12-12F	**20LF68**	—	—	—
1"	Steel	14.38 LPM	1"-11-1/2	3.8 gpm	PHC16-16F	**20LF69**	—	—	—
	Steel	151.40 LPM	1"-11-1/2	—	—	—	40.0 gpm	PHN16-16F	**20LF83**
1¼"	Steel	14.38 LPM	1¼"-11-1/2	3.8 gpm	PHC20-20F	**20LF71**	—	—	—
	Steel	265 LPM	1¼"-11-1/2	—	—	—	70.0 gpm	PHN20-20F	**20LF85**
1½"	Steel	14.38 LPM	1½"-11-1/2	3.8 gpm	PHC24-24F	**20LF72**	—	—	—
	Steel	416.40 LPM	1½"-11-1/2	—	—	—	110.0 gpm	PHN24-24F	**20LF86**
2"	Steel	908.50 LPM	2"-11-1/2	240.0 gpm	PHC32-32F	**20LF74**	240.0 gpm	PHN32-32F	**20LF87**


No. 20LF97


No. 20LG06


No. 20LF04


No. 20LH64


No. 20LH79


No. 20LJ07


No. 20LF68


No. 20LF81

Parker

Snap-tite Couplers and Plugs

Innovative, high-pressure components suitable for use with oil and gas. For additional sizes, go to Grainger.com®.

71 Series—Feature superior flow and low pressure drop.

EA Series—Design allows clean linear flow for low pressure drop.

H Series—For use where single or double shut-off valving is required.

Straight Through H Series—For use when no valving is required.

Size	CAPS Mfr. Model	CAPS Item No.	PLUGS Mfr. Model	PLUGS Item No.
71 Series Plastic Dust Caps & Plugs				
¼"	71-3PNC-4	**20LK02**	71-3PCC-4	**20LJ96**
⅜"	71-3PNC-6	**20LK03**	71-3PCC-6	**20LJ97**
½"	71-3PNC-8	**20LK04**	71-3PCC-8	**20LJ98**
¾"	71-3PNC-12	**20LJ99**	71-3PCC-12	**20LJ94**
1"	71-3PNC-16	**20LK01**	71-3PCC-16	**20LJ95**
H & PH Series Plastic Dust Caps & Plugs				
¼"	PDC-4	**20LF55**	PDP-4	**20LF58**
⅜"	PDC-6	**20LF56**	PDP-6	**20LF59**
½"	PDC-8	**20LF57**	PDP-8	**20LF60**

**** SS = Stainless Steel, HP = High Pressure.***



Parker

Fluid Analysis Test

Helps prevent major hydraulic or lube oil system failures. Collect a small amount of fluid and use the included mailing labels to send sample to the lab. A full report will be returned.

Provides	Item No.
Particle Count, Photomicrograph, Free Water, Spectrometric, Viscosity, Water (ppm), and Neutralization Analysis	**4VA89**

Portable Oil Filtration Systems



No. 1XPW9

Handheld System—Lightweight system features 115VAC, auxiliary ports, and fluorocarbon seals. Includes 10-micron cellulose filter element and 2 clear, 5-ft. hose assemblies with wand attachments. Max. operating pressure: 50 psi. 25 psi differential pressure indicator.

- Temp. range: -15° to 120°F

Cart Systems—Ideal in pre-filtering and transferring fluids into reservoirs or cleaning up existing systems. Filter cart processes fluid through a primary 40-micron synthetic element, then a secondary 10-micron cellulose or Microglass element. Includes 2 hoses with wands.

- Max. temp.: 150°F

Description	Max. Flow (gpm)	Max. Fluid Viscosity	Mfr. Model	Item No.
Handheld System				
Portable Filtration System	4	16000 SUS	GT410C	**6F582**
Double-Length Cart				
Hydraulic Oil Filter Cart	5	3000 SUS	5MFP240SA10QB16151	**5CJF7**
	10	500 SUS	10MFP240SA10QB16151	**1XPW9**

Description	Microns	Max. Flow (gpm)	Mfr. Model	Item No.
Replacement Filter Elements				
Double-Length Cart				
Microglass	2	10	937397Q	**1XPX2**
	5	10	937398Q	**1XPX3**
	10	10	937399Q	**1XPX1**
	20	10	937400Q	**1XPX4**
Synthetic	40	10	940802	**1XPX5**
Water Removal	Water Removal	10	940734	**1XPX6**
Woven Wire	40	10	940803	**1XPX7**
Handheld Filtration System				
Cellulose, Pkg. Qty. 2	10	4	932016	**6F584**
	20	4	932020	**6F590**
Copolymer, Pkg. Qty. 2	20	4	932019	**6F586**
Microglass III, Pkg. Qty. 2	5	4	932018Q	**6F591**
	10	4	932017Q	**6F585**
Single-Length Cart				
Cellulose	10	10	924450	**1R441**
Copolymer	20	10	927584	**4ZC80**
Microglass III	10	10	924453Q	**4ZC79**
Polyester	40	10	924448	**1R440**
Oil				
2.5 gal., 0° to 158°F			942180	**29TK17**
Handheld System Accessory				
Molded Plastic Carrying Case			601727	**6F583**



No. 5Z279



No. 5Z282

Hydraulic Pressure Filters

- Corrosion-resistant, anodized aluminum construction

Choose single length or extend element life with double length filters. Include 10-micron element and indicator with built-in 50 psi bypass valve.

For Use With	Filter Media	Microns	Mfr. Model	Item No.
Replacement Elements				
Single				
5Z279, 4VA83	Microglass III	10	925580Q	**5W353**
5Z279, 4VA83	Reusable SS wire	25	925574	**5W378**
5Z281	Cellulose	10	922624	**5W720**
4VA85	Microglass III	10	932651Q	**4VA87**
5Z281	Microglass III	10	932624Q	**5W721**
Double				
5Z282	Cellulose	10	925835	**5W722**
5Z282	Microglass III	10	932630Q	**5W723**
4VA86	Microglass III	10	932655Q	**4VA88**

Nom. Flow (gpm)	Size	HOUSING TYPE: Single Length Mfr. Model	Item No.	Double Length Mfr. Model	Item No.
Max. Pressure (psi) 1000, Max. Fatigue Pressure Rating (psi) 800					
20	SAE 12	15CN110QM250M4M41	**4VA83**	—	—
20	1 1/16"-12 SAE 12	—	—	15CN210QM250M4M41	**4VA84**
50	1" SAE 16	40CN110QM250N4N41	**4VA85**	40CN210QM250N4N41	**4VA86**
Max. Pressure (psi) 3000, Max. Fatigue Pressure Rating (psi) 2000					
20	¾" SAE 12	15P110QBM2KS121	**5Z279**	15P210QBM2KS121	**5Z280**
50	1" SAE 16	30P110QBM2KS161	**5Z281**	30P210QBM2KS161	**5Z282**



No. 1XPG8



No. 52YT78

Interchangeable Hydraulic Filter Elements

- Fully bonded construction
- Corrosion-resistant end caps

Note: Additional Interchangeable Hydraulic Filter Elements available on Grainger.com®.

Pall Interchange	Microns	PARKER Mfr. Model	Item No.	Microns	SCHROEDER Mfr. Model	Item No.
Pall Interchange Filters						
HC7400FKN4H	10	935164	**1XPT4**	3	SBF-7400-4Z3B	**52YT79**
HC7400FKN8H	5	935168	**1XPW4**	5	SBF-7400-8Z5B	**52YT33**
HC7500SKN8H	—	—	—	5	SBF-7500-8Z5B	**52YT06**
HC8200FKN8H	5	932266Q	**1XPV8**	5	SBF-8200-8Z5B	**52YT54**
HC8300/8310FKT16H	20	933047Q	**1XPR1**	—	—	—
HC8300/8310FKT16Z	—	—	—	25	SBF-8300-16Z25V	**52YT24**
HC8300/8310FKT39H	20	932875Q	**1XPR9**	—	—	—
HC8300/8310FKT39Z	—	—	—	25	SBF-8300-39Z25V	**52YT29**
HC8900FKT13H	20	933205Q	**1XPK1**	25	SBF-8900-13Z25B	**52YR87**
HC8900FKT16H	20	933213Q	**1XPN1**	25	SBF-8900-16Z25B	**52YT05**
HC9020FKN4H	5	933239Q	**1XPJ3**	5	SBF-9020-4Z5B	**52YR81**
HC9020FKP4H	2	925582Q	**1XPH8**	3	SBF-9020-4Z3B	**52YR77**
HC9020FKP8H	2	925602Q	**1XPJ4**	3	SBF-9020-8Z3B	**52YR82**
HC9020FKS4H	10	932612Q	**1XPG8**	10	SBF-9020-4Z10B	**52YT78**
HC9020FKS8H	10	932618Q	**1XPH1**	10	SBF-9020-8Z10B	**52YR70**
HC9020FKT4H	20	930369Q	**1XPH5**	25	SBF-9020-4Z25B	**52YR74**
HC9020FKT8H	20	930370Q	**1XPJ6**	25	SBF-9020-8Z25B	**52YR83**
HC9021FDP4H	2	927725Q	**1XPN5**	3	SBF-9021-4Z3B	**52YT09**
HC9021FDP8H	2	927723Q	**1XPK8**	3	SBF-9021-8Z3B	**52YR93**
HC9600FKN13H	5	926845Q	**1XPP5**	5	SBF-9600-13Z5B	**52YT18**
HC9600FKN4H	5	926841Q	**1XPJ7**	5	SBF-9600-4Z5B	**52YR84**
HC9600FKN8H	5	926843Q	**1XPH9**	5	SBF-9600-8Z5B	**52YR78**
HC9600FKP8H	2	926697Q	**1XPG9**	3	SBF-9600-8Z3B	**52YR69**
HC9600FKS13H	10	926839Q	**1XPN4**	10	SBF-9600-13Z10B	**52YT08**
HC9600FKS4H	10	926835Q	**1XPH6**	10	SBF-9600-4Z10B	**52YR75**
HC9600FKT13H	20	930162Q	**1XPT9**	25	SBF-9600-13Z25B	**52YT37**
HC9600FKT4H	20	930099Q	**1XPJ9**	25	SBF-9600-4Z25B	**52YR86**
HC9600FKT8H	20	930118Q	**1XPH2**	25	SBF-9600-8Z25B	**52YR71**
HC9601FDP8H	2	927176Q	**1XPL4**	3	SBF-9601-8Z3B	**52YR98**
HC9601FDT8H	20	927175Q	**1XPR4**	25	SBF-9601-8Z25B	**52YT25**
HC9650FKN8H	5	926988Q	**1XPU5**	5	SBF-9650-8Z5B	**52YT42**
HC9700FKP9H	—	—	—	3	KZ3	**52YR80**
HC9700FKS9H	—	—	—	10	KZ10	**52YR72**
HC9700FKS9H	—	—	—	10	K10	**52YT64**
HC9701FKS9H	—	—	—	10	KZX10	**52YR85**
HC9800FKN4H	5	930197Q	**1XPV2**	5	SBF-9800-4Z5B	**52YT48**
HC9800FKT8H	20	930194Q	**1XPK2**	25	SBF-9800-8Z25B	**52YR88**
HC9801FDP4H	2	935191	**1XPL1**	3	SBF-9801-4Z3B	**52YR95**
HC9801FDP8H	2	935193	**1XPL5**	3	SBF-9801-8Z3B	**52YR99**

Hydac Interchange	Microns	PARKER Mfr. Model	Item No.	Microns	SCHROEDER Mfr. Model	Item No.
Hydac Interchange Filters						
	10	PR3033Q	**1XPP2**	—	—	—
0110D010BN4HC	10	PR3087Q	**1XPU8**	10	SBF-0110D-Z10B	**52YT45**
0110D020BN4HC	20	PR3088Q	**1XPL3**	25	SBF-0110D-Z25B	**52YR97**
0240D003BN4HC	3	PR3143Q	**1XPU2**	3	SBF-0240D-Z3B	**52YT39**
0240D010BN4HC	10	PR3145Q	**1XPT7**	10	SBF-0240D-Z10B	**52YT35**
0330D010BN4HC	10	PR3174Q	**1XPW6**	10	SBF-0330D-Z10B	**52YT59**
0330R010BN4HC	10	938283Q	**1XPW1**	10	SBF-0330R-Z10B	**52YT56**
0660D010BN4HC	10	PR3203Q	**1XPU9**	10	SBF-0660D-Z10B	**52YT46**
0030D010BN4HC	—	—	—	10	SBF-0030D-Z10B	**52YT15**



No. 4Z620



No. 1R412

Hydraulic Return Line Spin-On Filters

- Max. pressure: 150 psi
- Max. temp.: 225°F
- Cast-aluminum head
- 15 psi bypass spring

Microglass filter has higher dirt-holding capacity for longer usable filter life. Elements are interchangeable with major brands size: 1-12 thread for 20 gpm, 1 1/16-16 thread for 50 gpm models. Dual Buna N seals resist leaks up to 150 psi.

Head has ⅛" (F)NPT port with optional Gauge/Indicator No. 2C492 sold separately.

Max. Flow (gpm)	Filter Rating (microns)	Filter Media	Inlet/Outlet Threading NPT (in.)	Element Threading Size	COMPLETE FILTERS Mfr. Model	Item No.	REPLACEMENT ELEMENTS Mfr. Model	Item No.
20	3	Cellulose	¾	1-12"	12AT03CN15BBH	**4ZC86**	926543	**4ZC81**
	10	Cellulose	¾	1-12"	12AT10CN15BBH	**4ZC618**	921999	**1R412**
	10	Microglass	¾	1-12"	12AT10BN15BBH	**4ZC87**	928763	**4ZC82**
	20	Microglass	¾	1-12"	12AT20BN15BBH	**4ZC88**	928764	**4ZC83**
	25	Cellulose	¾	1-12"	12AT25CN15BBH	**4ZC619**	925023	**1R413**
50	3	Cellulose	1¼	1 1/16-16"	50AT03CN15DDH	**4ZC91**	926541	**5W285**
	10	Cellulose	1¼	1 1/16-16"	50AT10CN15DDH	**4ZC620**	926169	**1R414**
	10	Microglass	1¼	1 1/16-16"	50AT10BN15DDH	**4ZC89**	928766	**4ZC84**
	20	Microglass	1¼	1 1/16-16"	50AT20BN15DDH	**4ZC90**	928767	**4ZC85**
	25	Cellulose	1¼	1 1/16-16"	50AT25CN15BBH	**4ZC621**	926170	**1R415**

AC Motor Driven Forced Air Oil Coolers

AKG®

- Brazed aluminum with black painted finish
- Max. temp.: 250°F
- Mounting feet included

Cool-Line A Series oil coolers offer maximum cooling effectiveness with minimum pressure drop. Aluminum bar/plate cooler construction is 30% to 50% smaller than copper tube/aluminum fin oil coolers for same heat transfer performance. Hollow profile design reduces local peak strains for a significant increase in cooler service life. Performance is based on oil entering cooler 50°F higher than ambient air temperature. For Replacement Motors, call 1-800-GRAINGER (472-4643). On Grainger.com®, search by Grainger Item Number and click Optional Accessories.

Flow Ranges (gpm)	HP Heat Removed	Port Size	Motor HP	Motor Amps	NEMA/IEC Frame	Max. Pressure (psi)	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
115/230VAC Volts											
2 to 30	5	SAE #12	¼	5.4/2.7	56C	377	13.74	13.78	12.56	AL5-1	**4UHZ4**
	8	SAE #12	⅓	5.6/2.8	56C	377	14.25	13.78	13.27	A8-1	**4UHZ5**
4 to 50	10	SAE #16	½	7/3.5	56C	377	15.91	15.75	14.5	A10-1	**4UHZ6**
	20	SAE #20	½	8/4	56C	377	19.6	21.65	15.5	A20-1	**4UHZ8**
	30	SAE #20	1	12.8/6.4	56C	377	24.03	25.59	16.75	A30-1	**4UHZ9**
8 to 80	15	SAE #16	½	7/3.5	56C	377	15.91	16.54	16	A15-1	**4UHZ7**
	40	SAE #20	1	12.8/6.4	56C	377	24.03	26.38	18	A40-1	**4UJA1**
230/460VAC Volts											
8 to 80	55	SAE #20	2	6.2/3.1	56C	377	25.89	30.31	19.5	A55-3	**4UJA2**
20 to 200	90	2" SAE 4 Bolt Flange	3	8.6/4.3	56C	377	30.19	37.01	23.3	A90-3	**4UJA3**
	105	2" SAE 4 Bolt Flange	3	8.6/4.3	56C	377	33.26	38.98	23.4	A105-3	**4UJA4**
	130	2" SAE 4 Bolt Flange	5	13.2/6.6	184TC	377	37.56	40.94	25.1	A130-3	**4UJA5**
	160	2" SAE 4 Bolt Flange	7.5	19.6/9.8	213TC	250	38.4	43.62	29.5	A160-3	**4UJA6**
20 to 350	215	3" SAE 4 Bolt Flange	10	26/13	215TC	250	46.96	49.49	30.8	A215-3	**4UJA7**
	275	3" SAE 4 Bolt Flange	10	26/13	215TC	250	59.76	53.68	30.7	A275-3	**4UJA8**


No. 4UHZ7

Off-Line Forced Air Oil Coolers

AKG®

- Gearmotor type
- Spin-on filter
- Steel fan guard
- Mounting feet included
- 230/460V

High-performance aluminum cooler assemblies come complete with integrated 1750 rpm pump/motor and filter for cooling, filtration, or lubrication circuits in industrial or mobile applications. Excellent in low-pressure systems that use fluids with varying viscosities, and that have varying flow rates or pressure spikes in return lines. Pump flow range: 8.9 gpm to 45.1 gpm. Spin-on filter has a 9 micron rating with 50 psi bypass valve and visual indicator.

HP Heat Removed	Displacement	Motor Amps	Motor HP	Inlet Port Size	Outlet Port Size	Overall Height	Overall Width	Overall Depth	Item No.
Polypropylene Fan Blade Material									
7.1	1.22 cu.-in.	Fan/Pump - 6.2/3.1	Fan/Pump - 2	Code 61, 1 ½ in Flange	#16	15.20"	17.70"	24.00"	**6PKT9**
14.1	1.22 cu.-in.	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	18.90"	23.60"	24.00"	**6PKU0**
17	2.44 cu.-in.	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	18.90"	23.60"	24.00"	**6PKU1**
18.1	1.22 cu.-in.	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	23.40"	27.60"	24.00"	**6PKU2**
23.0	2.44 cu.-in.	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	23.40"	27.60"	24.00"	**6PKU3**
Nylon Fan Blade Material									
46.8	4.88 cu.-in.	Fan - 6.2/3.1 Pump -19.6/9.8	Fan - 2 Pump - 7.5	Code 61, 2 in Flange	#20	26.30"	32.30"	38.00"	**6PKU4**
59.9	4.88 cu.-in.	Fan - 6.2/3.1 Pump -19.6/9.8	Fan - 2 Pump - 7.5	Code 61, 2 in Flange	#20	31.40"	38.20"	38.00"	**6PKU5**
73.7	4.88 cu.-in.	Fan - 8.6/4.3 Pump - 19.6/9.8	Fan - 3 Pump - 7.5	Code 61, 2 in Flange	#20	33.20"	39.00"	48.40"	**6PKU6**
85.9	4.88 cu.-in.	Fan - 13.2/6.6 Pump - 19.6/9.8	Fan - 5 Pump - 7.5	Code 61, 2 in Flange	#20	37.60"	40.90"	50.70"	**6PKU7**


No. 6PKU0

How To Size a Hydraulic Oil Cooler

1. Find the system oil flow (GPM).
2. Size the heat exchanger to remove approximately 30% of input horsepower.

To find input horsepower, multiply the system pressure (PSI) times the system flow (GPM), then divide by 1714 (PSI x GPM ÷ 1714).

To find an approximation of the BTU removed, multiply the horsepower heat removed by 2545.


No. 4UJF5

Air-Cooled Oil Coolers

AKG®


No. 4UJD5

- Brazed aluminum
- Max. pressure: 250 psi
- Max. temp.: 250°F
- Universal mounting bracket included

Deliver maximum cooling performance while minimizing pressure drop. Designed for rugged environments. Nonlouvered external fin prevents clogging and is easy to clean. Aluminum bar/plate cooler construction is 30% to 50% smaller in size than copper tube/aluminum fin oil coolers for same heat transfer performance. Cooler performance is based on oil entering cooler 100°F higher than ambient air temperature. 1000 standard ft. per minute (sfpm) air velocity.

HP Heat Removed	Flow Ranges (gpm)	Port Size	Overall H (in.)	Overall W (in.)	Overall D (in.)	Mfr. Model	Item No.
8	2 to 30	SAE #12	6.65	17.91	1.77	C-8	**4UJD3**
12	2 to 30	SAE #12	11.73	13.98	2.56	C-12	**4UJD6**
14	2 to 30	SAE #12	10.98	17.91	1.77	C-14	**4UJD4**
18	2 to 30	SAE #16	13.58	15.94	2.56	C-18	**4UJD7**
20	2 to 30	SAE #12	15.31	17.91	1.77	C-20	**4UJD5**
32	8 to 80	SAE #20	18.43	19.88	2.56	C-32	**4UJD8**
48	8 to 80	SAE #20	22.13	23.62	2.56	C-48	**4UJD9**
66	8 to 80	SAE #20	25.83	27.56	2.56	C-66	**4UJE1**
82	10 to 110	SAE #24	27.68	31.5	2.56	C-82	**4UJE2**
120	10 to 110	SAE #24	39.49	31.5	2.56	C-120	**4UJE3**

DC Motor Driven Forced Air Oil Coolers

AKG®

- Brazed aluminum with black painted finish
- Max. pressure: 377 psi
- Max. temp.: 250°F
- IP 68 frame
- Mounting bracket included

Cool-Line D Series oil coolers maximize cooling capability while minimizing pressure drop. Ideal for rugged environments. Easy-to-clean, nonlouvered external fin prevents clogging. Aluminum bar/plate cooler construction is 30% to 50% smaller than copper tube/aluminum fin oil coolers for the same heat transfer. Hollow profile design reduces local peak strains, significantly increasing cooler service life. Performance is based on oil entering cooler 100°F higher than ambient air temperature.Brushless DC Motors are rated to 40,000 hours. Coolers with bypass valves are available on Grainger.com.

HP Heat Removed	Flow Ranges (gpm)	Port Size	Motor HP*	Motor Amps*	Overall W (in.)	Includes	OIL COOLER Mfr. Model	OIL COOLER Item No.	REPLACEMENT MOTOR Item No.
Brushless DC Motor									
16	10 to 50	SAE #16	0.39	24	15.80	Temperature Controller	DB16-12	**53XG47**	—
20	10 to 50	SAE #16	0.40	20	15.80	Temperature Controller	DB20-12	**53XG50**	—
30	10 to 80	SAE #20	0.39	24	19.70	Temperature Controller	DB30-12	**53XG53**	—
36	10 to 80	SAE #20	0.40	25	20.50	Temperature Controller	DB36-12	**53XG56**	—
45	10 to 80	SAE #20	0.39	24	28.70	Foot Mounting Bracket	DB45-12	**53XG59**	—
DC Motor									
10	2 to 30	SAE #12	0.08	5	13.78	Bypass Valve	D10-12-BP65	**53XG28**	**4UJG9**
	2 to 30	SAE #12	0.08	5	13.78	Grill Mounting Bracket	D10-12	**4UJF4**	**4UJG9**
16	4 to 50	SAE #16	0.19	17	15.75	Bypass Valve	D16-12-BP65	**53XG30**	**4UJH1**
	4 to 50	SAE #16	0.19	17	15.75	Universal Mounting Bracket	D16-12	**4UJF5**	**4UJH1**
20	4 to 50	SAE #16	0.19	17	15.75	Bypass Valve	D20-12-BP65	**53XG32**	**4UJH1**
	4 to 50	SAE #16	0.19	17	15.75	Universal Mounting Bracket	D20-12	**4UJF6**	**4UJH1**
30	4 to 50	SAE #20	0.48	29	19.69	Bypass Valve	D30-12-BP65	**53XG34**	**4UJH2**
	4 to 50	SAE #20	0.48	29	19.69	Universal Mounting Bracket	D30-12	**4UJF7**	**4UJH2**
36	8 to 80	SAE #20	0.48	29	20.47	Bypass Valve	D36-12-BP60	**53XG37**	**4UJH2**
	8 to 80	SAE #20	0.48	29	20.47	Universal Mounting Bracket	D36-12	**4UJF8**	**4UJH2**
45	8 to 80	SAE #20	0.19	17	28.35	Foot Mounting Bracket	D45-12	**4UJF9**	**4UJH1**
60	4 to 50	SAE #20	0.48	29	35.63	Foot Mounting Bracket	D60-12	**4UJG1**	**4UJH2**
70	8 to 80	SAE #20	0.48	29	36.22	Foot Mounting Bracket	D70-12	**4UJG2**	**4UJH2**

Motor values are per fan. Nos. 4UJF9, 4UJG1, 4UJG2 and 53XG59 have 2 fans.



No. 4WTU2

Water-Cooled Oil Coolers

Lovejoy

- Max. oil pressure: 580 psi
- Max. water pressure: 230 psi

Highly efficient and compact design features aluminum fins that are mechanically bonded to copper tubes to extend cooling surface area. Removable end caps allow easy access for cleaning. Mounting brackets may be rotated for easy installation and design flexibility. Industry standard design allows interchangeability.

HP Heat Removed	Flow Ranges (gpm)	Oil Ports (F)NPT (in.)	NPT Inlet/Outlet Water (in.)	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
4 to 11	4 to 20	¾	¾	3.86	11.42	3.54	84527103102	**4WTT9**
8 to 21	6 to 59	1½	1	5.47	11.81	5.00	84527103212	**4WTU1**
20 to 60	10 to 87	2	1¼	7.64	17.17	6.50	84527103312	**4WTU2**
35 to 130	10 to 87	2	1½	7.64	29.17	6.50	84527103314	**4WTU3**
58 to 220	10 to 87	2	1½	7.64	53.19	6.50	84527103315	**4WTU4**



No. 4VV74

Parker

Hydraulic Accumulators and Repair Kits

CHARGING AND GAUGING KIT

Can be used for charging either a bladder or piston accumulator. Includes 10-ft. hose with fittings, adapter and gas valve, bleeder valve, gas chuck, and pressure gauge.**ACCUMULATORS**

- Steel housing
- Max. pressure: 3000 psi

Bladder—Made from chrome-molybdenum alloy steel with forged ends.

- Temp. range: -20° to 200°F

Diaphragm—Lightweight, welded, completely sealed accumulators can be mounted in any direction. Hydrin diaphragm bag. Not serviceable.

- Temp. range: -40° to 176°F

Piston—Vertical-mount, serviceable accumulators have Buna N O-ring seals.

- Temp. range: -20° to 165°F

Description	Mfr. Model	Item No.
Charging and Gauging Kit	CG-3000AGRG	**4VV89**

For Use With	MOUNTING CLAMPS Item No.	MOUNTING BASES Item No.
Bladder Accumulator Mounting Clamps & Bases		
4VV73	**4VV84**	—
4VV74	**4VV85**	**4VV87**
4VV75	**4VV86**	**4VV88**
4VV76	**4VV86**	**4VV88**
4VV77	**4VV86**	**4VV88**

Fluid Volume	Dia. (in.)	Gas Volume (cu.-in.)	H (in.)	Inlet SAE (in.)	Mfr. Model	ACCUMULATORS Item No.	ACCUMULATOR REPAIR KITS Item No.
Bladder Accumulators							
58 cu. in.			10.93		BA002B3T01Y2GRG	**4VV73**	**4VV78**
231 cu. in.	6.61	231	17.26	SAE #20 (1⅝-12)	BA01B3T01P2GRG	**4VV74**	**4VV79**
578 cu. in.	8.78	520	21.6	SAE #24 (1⅞-12)	BA02B3T01P2GRG	**4VV75**	**4VV80**
1155 cu. in.	8.78	1155	33.85	SAE #24 (1⅞-12)	BA05B3T01P2GRG	**4VV76**	**4VV81**
2310 cu. in.	8.78	2171	54.85	SAE #24 (1⅞-12)	BA10B3T01P2GRG	**4VV77**	**4VV82**
Diaphragm Accumulators							
5 cu. in.	2.52	5	4.35	#6	AD007B25T9A1	**6NZJ9**	—
10 cu. in.	2.95	10	4.69	#6	AD016B25T9A1	**6NZK0**	—
20 cu. in.	3.74	20	2.55	#8	AD032B21T9A1	**6NZK1**	—
30 cu. in.	4.2	30	5.94	#8	AD050B21T9A1	**6NZK2**	—
45 cu. in.	4.87	45	6.65	#8	AD075B25T9A1	**6NZK3**	—
Piston Accumulators							
30 cu. in.	2.38	31	12.3	¾-16 (#8)	ACP05AA050E1KTC	**4WB43**	**4WB70**
57 cu. in.	2.38	61	21.79	¾-16 (#8)	ACP05AA100E1KTC	**4WB45**	**4WB70**
58 cu. in.	3.56	63	13.25	1 1/16-12 (#12)	A3N0058D1KG	**4WB47**	**4WB72**
116 cu. in.	3.56	121	16.42	1 1/16-12 (#12)	A3N0116D1KG	**4WB49**	**4WB72**
	4.75	125	15.06	1⅝-12 (#20)	A4N0116D1KG	**4WB51**	**4WB74**
231 cu. in.			24.06		A4N0231D1KG	**4WB54**	**4WB74**
	6.88	262	16.25	1⅞-12 (#24)	A6N0231D1KG	**4WB60**	**4WB76**
347 cu. in.	4.75	356	33.19	1⅝-12 (#20)	A4N0347D1KG	**4WB57**	**4WB74**
578 cu. in.	6.88	609	29.5	1⅞-12 (#24)	A6N0578D1KG	**4WB62**	**4WB76**
1155 cu. in.	6.88	1186	51.5	1⅞-12 (#24)	A6N1155D1KG	**4WB64**	**4WB76**
2310 cu. in.	6.88	2341	98.5	1⅞-12 (#24)	A6N2310D1KG	**4WB68**	**4WB76**



No. 39D691

Oil Leak Detection Kits and Accessories

SPECTROLINE®

Kits—For all petroleum and synthetic fluid systems. Environmentally friendly kits help pinpoint exact source of leaks.

Flashlights/Lamps—Ultra-high-intensity, versatile, pure UV-A LED lamps detect leaks in industrial close-looped fluid systems.

Typical Applic.	Includes	Mfr. Model	Item No.
Kits			
Industrial Fluid Systems	OPX-400I Optimax 400 Cordless, Violet Light LED Flashlight, (1) OIL-GLO 44-8 Dye, UVS-40 Glasses, GLO-Away Dye Cleaner and Small Green Carrying Case	OPK-441	**46AY06**
Industrial Fluid Systems	OLX-400I Opti-Lux 400 Cordless, Rechargeable Violet Light LED Flashlight with Battery Charging Cradle with AC and DC Cord Sets, (1) Rechargeable Lithium-Ion Battery, Lanyard, (1) OIL-GLO 44-P Dye, UVS-40 Glasses, GLO-Away Dye Cleaner and Medium Green Carrying Case	OLK-444	**46AY07**
Aviation Fluid Systems	OPX-365 OPTIMAX™ 365 UV LED Flashlight, AD-8609-0008 Aero-Brite™ Dye for Aircraft Fluid Systems, Holster, UVS-30 UV-Absorbing Glasses, GLO-AWAY Dye Cleaner	ALK-365	**39D693**
Aviation Fluid Systems	MAXIMA™ ML-3500S UV Lamp, AD-8609-0008 Aero-Brite™ Dye for Aircraft Fluid Systems, UVS-30 and UVS-40 Glasses, GLO-AWAY Dye Cleaner and CC-350	MLK-35A	**39D694**
Aviation Fluid Systems	MAXIMA™ ML-3500MS UV Lamp, BP-12A Battery Pack, AD-8609-0008 Aero-Brite™ Dye for Aircraft Fluid Systems, UVS-30 and UVS-40 Glasses, GLO-AWAY Dye Cleaner	MLK-35MA	**39D695**

Item	Includes	Mfr. Model	Item No.
Flashlights/Lamps			
UV Inspection Flashlight Kit	Rechargeable Battery, Spare Battery, Battery Charging Cradle with AC Cord Set, Lanyard, Belt Holster, UVS-30 UV-Absorbing Spectacles	OLX-365	**39D690**
UV Inspection Flashlight Kit	AC Charger, 12VDC Charger, Holster, UVS-30 UV- Absorbing Spectacles	OPX-365	**39D691**
UV Micro-Discharge Light Inspection Lamp	UVS-30 and UVS-40 Glasses, GLO-AWAY Dye Cleaner	MLK-35	**39D692**

	1 OZ.			8 OZ.			PINT			GALLON		
Description	Mfr. Model	Item No.	Pkg. Qty.	Mfr. Model	Item No.	Pkg. Qty.	Mfr. Model	Item No.	Pkg. Qty.	Mfr. Model	Item No.	Pkg. Qty.
Fluorescent Dye, For Use with UV and/or Blue Inspection Lamps												
Blue	OIL-GLO 40/6	**39D679**	6	OIL-GLO 40-8	**39D680**	1	OIL-GLO 40-P	**39D681**	1	OIL-GLO 40-G	**39D682**	1
Green	OIL-GLO 33/6	**39D675**	6	OIL-GLO 33-8	**39D676**	1	OIL-GLO 33-P	**39D677**	1	OIL-GLO 33-G	**39D678**	1
Green, Aviation	—	—	—	AD-8609-0008	**39D696**	1	AD-8609-0016	**39D697**	1	AD-8609-0100	**39D698**	1
Red	OIL-GLO 50/6	**39D686**	6	OIL-GLO 50-8	**39D687**	1	OIL-GLO 50-P	**39D688**	1	OIL-GLO 50-G	**39D689**	1
White	OIL-GLO 30/6	**39D671**	6	OIL-GLO 30-8	**39D672**	1	OIL-GLO 30-P	**39D673**	1	OIL-GLO 30-G	**39D674**	1
Yellow	OIL-GLO 22/6	**39D667**	6	OIL-GLO 22-8	**39D668**	1	OIL-GLO 22-P	**39D669**	1	OIL-GLO 22-G	**39D670**	1
Yellow/Green	OIL-GLO 44/6	**39D683**	6	OIL-GLO 44-8	**39D684**	1	OIL-GLO 44-P	**5LA43** *	1	OIL-GLO 44-G	**39D685**	1

** Recommended Dilution Dependent On Host Fluid*



Oil Glo®
No. 5LA43

GA GRAINGER APPROVED

Steel Hydraulic Reservoirs

Feature 11-ga. hot rolled steel construction and oil sight gauge with thermometer. Filler breathers filter air to 40 microns and provide easy access for adding hydraulic oil. Include appropriately sized and placed suction and return connections.

Nos. 24W699, 24W701, and 24W702 have convenient cleanout covers.

Nos. 24W703 and 24W704 include internal baffles with cutouts.

Nom. Cap. (gal.)	Removable Cover	Return Port (in.)	Suction Port Size (in.)	L (in.)	W (in.)	H (in.)	Item No.
Vertical							
2	Yes	½ NPT	1 NPT	10⅜	8 7/16	10 7/16	**24W699**
5	Yes	½ NPT	1 NPT	10⅜	10⅜	16⅜	**24W701**
8	Yes	¾ NPT	1½ NPT	14¼	12	18⅛	**24W702**
Horizontal							
10	No	¾ NPT	1½ NPT	22¼	14	12¼	**24W703**
20	No	¾ NPT	1½ NPT	26¼	18	14¼	**24W704**



No. 24W704

Lovejoy

Aluminum Hydraulic Reservoirs and Tanks

Aluminum construction provides twice the heat dissipation of steel reservoirs.

RESERVOIRS

Include tank, oil sight gauge and filler breather, lid gasket, and lid with return/suction ports.

LEG KITS

Can be used with either reservoirs or tanks to improve air circulation under the tank.

ENVIRO SEALS

Heavy-duty seals help prevent oil leaks and can be used with either reservoirs or tanks.

TANK LIDS

Easily modified to accept vertical or horizontal pump/motor configurations and mounting of additional system hardware. Include lid, gasket, and fasteners.



No. 3JWR9

Nom. Cap. (gal.)	L (in.)	W (in.)	H* (in.)	Return Port (in.)	Suction Port Size (in.)	RESERVOIRS Mfr. Model	RESERVOIRS Item No.	TANKS Mfr. Model	TANKS Item No.	LEG KITS Mfr. Model	LEG KITS Item No.	ENVIRO SEALS Mfr. Model	ENVIRO SEALS Item No.	TANK LIDS FOR TANKS ONLY Mfr. Model	TANK LIDS FOR TANKS ONLY Item No.
1.6	10¼	8 1/16	9	½ NPT	1 NPT	84527102350	**3JWR5**	84527102102	**3JWT8**	—	—	—	—	84527102802	**3JWU5**
2.6	12⅜	9⅜	10⅜	½ NPT	1 NPT	84527102351	**3JWR6**	84527102103	**3JWT9**	84527101301	**3JWT2**	—	—	84527102803	**3JWU6**
4.5	14⅜	11½	11 3/16	½ NPT	1 NPT	84527102352	**3JWR7**	84527102105	**3JWU1**	84527101301	**3JWT2**	—	—	84527102805	**3JWU7**
7.1	19⅝	13 7/16	13⅛	¾ NPT	1½ NPT	84527102353	**3JWR8**	84527102107	**3JWU2**	84527101302	**3JWT3**	84527102307	**3JWT5**	84527102807	**3JWU8**
11	20 11/16	16 11/16	14⅝	¾ NPT	1½ NPT	84527102354	**3JWR9**	84527102111	**3JWU3**	84527101303	**3JWT4**	84527102311	**3JWT6**	84527102811	**3JWU9**
17	24¼	18 11/16	16⅝	¾ NPT	1½ NPT	84527102355	**3JWT1**	84527102117	**3JWU4**	84527101303	**3JWT4**	84527102317	**3JWT7**	84527102817	**3JWX1**

**** Height includes filler breather, not included on tanks.***

Parker

Hydraulic Reservoir Breathers

- Operating temp.: -20° to 250°F
- 3-micron filter
- Silica gel desiccant type
- 1" NPT inlet

Help prevent moisture and particulates from entering the hydraulic system. Replace breather when silica gel changes color from blue to pink.



No. 2NMR9

Description	Body Length (in.)	Mfr. Model	Item No.
Reservoir Breathers			
Reservoir Breather	5	934330T	**2NMR9**
Reservoir Breather	7	934331T	**2NMT1**
Reservoir Breather	9	934332T	**2NMT2**
Breather Adapters			
Field Breather Adapter	1	937546	**2NMT3**
Flange Breather Adapter	1	937463	**2NMT4**

GA GRAINGER APPROVED

Filler Breathers

- Max. operating temp.: 200°F
- 40-micron filter
- Foam filter media

Use as a tank filler port to allow tank to breathe while keeping out airborne particles. Nos. 24W708 and 24W709 feature bayonet design.



No. 24W705



No. 24W709

NPT Inlet (in.)	Outside Dia. (in.)	Body Length (in.)	Item No.
Standard Reservoir Breather, Standard with Nickel-Chrome-Plated Steel Cap			
¾	3	2½	24W705
Miniature Reservoir Breather, Miniature with Polyamide Cap			
½	1.57	1.5	24W706
Miniature Reservoir Breather with Polyamide Cap			
¾	1.77	1.5	24W707
Side Mount Reservoir Filler Breather with Nickel-Chrome-Plated Steel Cap			
—	3	6.1	24W708
Standard Reservoir Filler Breather with Nickel-Chrome-Plated Steel Cap			
—	3	6.1	24W709

GA GRAINGER APPROVED

Reservoir Fluid Level/ Temperature Gauges

- Max. working pressure: 15 psi
- Max. temp.: 200°F

Level gauges with wide sight opening for maximum visibility. Crystal-clear glass sights are compatible with all mineral and petroleum-based fluids. ½-20 UNF threads on mounting bolts. For additional fluid level gauges, see page 2464.



No. 24W710

Description	Item No.
5" Mounting Center Level Gauge	**24W710**
10" Mounting Center Level Gauge	**24W711**

GA GRAINGER APPROVED

Hydraulic Suction Strainers

Use to filter oil at end of pick-up tube in oil reservoir. Stainless steel end plates and 3-pc. inner frame. Suction strainer is glass fiber construction. 100-mesh screen can be easily cleaned.



No. 24W723

(F)NPT Ports (in.)	Nom. Flow (gpm)	L (in.)	Dia. (in.)	Item No.
½	5	3.11	2.62	**24W720**
¾	8	3.5	2.62	**24W721**
1	10	5.41	2.62	**24W722**
1¼	20	6.88	3.41	**24W723**
1½	30	8.1	3.41	**24W724**


No. 31CC51


No. 21U129


No. 39E996


No. 3FWY3

SPEEDAIRE PORTER CABLE BOSTITCH SENCO

Pneumatic Finish and Brad Nailers

FINISH NAILERS

Feature include depth-of-drive adjustment, over-molded rubber grip, and no-mar tip. Oil-free.

Speedaire®—Feature adjustable exhaust, quick jam release, belt hook, and adjustable trigger.

Porter Cable®—Nailers have an adjustable exhaust, sequential-style trigger with lockoff switch, and adjustable belt hook.

Bostitch®—No. 45YJ66 has a tool-free jam release mechanism for easy nail removal and includes sample finish nails, extra no-mar tips, and carrying case.

No. 3FWY2 features tool-free jam release, selectable trigger and tool-free adjustable belt hook. Includes sample fasteners, ¼" fitting, and carrying case.

Senco®—No. 21U129 has a rugged and magnesium body, sequential-style trigger, 360° adjustable exhaust, comfort grip, belt hook, and easy-clear latch.

BRAD NAILERS

Feature adjustable work contact element and adjustable drive depth. Clear jams quickly; load easily. Include rechargeable battery, charger, safety glasses, and case. No. 48LR72 features an LED light.

Notes: Pin Nailers available on Grainger.com®.

Bostitch®—No. 3FWY3 features tool-free access to drive channel, dry-fire lockout, and quiet rear exhaust. Includes 100 brad nails, hex wrench, belt hook and carrying case.

Collation Angle	Collation Type	Fastener Range	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
15 Gauge Finish Nailers							
34°	Glue	1 ¼ in to 2 ½ in	120	4.4 lb	Speedaire	31CC51	**31CC51**
34°	Tape	1 in to 2½ in	100	3.9 lb	Porter Cable	DA250C	**3FZD6**
25°	Glue	1¼ in to 2½ in	129	4.3 lb	Bostitch	BTFP72156	**45YJ66**
34°	Glue	1¼ in to 2½ in	100	4.3 lb	Bostitch	BTFP72155	**36Z453**
34°	Glue	1¼ in to 2½ in	104	4.7 lb	Senco	FINISHPRO 42XP	**21U129**
16 Gauge Finish Nailers							
0°	Glue	1 in to 2½ in	100	3.9 lb	Porter Cable	FN250C	**3FZD5**
0°	Glue	1¼ in to 2½ in	100	3.9 lb	Bostitch	BTFP71917	**3FWY2**
18 Gauge Brad Nailers							
0°	Glue	⅝ in to 2 in	100	2.7 lb	Porter Cable	BN200C	**39E996**
0°	Glue	⅝ in to 2⅛ in	110	2.7 lb	Bostitch	BT1855K	**3FWY3**
0°	Glue	⅝ in to 2⅛ in	100	2.5 lb	Senco	FINISHPRO 18BMG	**48LR72**


No. 48J295


No. 36N562

SENCO Paslode

Cordless Finish and Brad Nailers

FINISH NAILERS

All models include no-mar tips, a rechargeable battery, battery charger, safety glasses, and a carrying case.

Senco Battery-Actuated Nailers—No. 48J292 features the Reflex-Shot design that provides an instant shot when the trigger is pulled. No fuel cell required. Includes selectable drive switch, nose-mounted LED light, reversible and adjustable belt hook, battery, and charger.

Paslode® Fuel-Actuated Nailers—Include tool-free adjustable depth feature and easy jam removal.

BRAD NAILERS

Feature adjustable work contact element and adjustable drive depth. Clear jams quickly; load easily.

Collation Angle	Collation Type	Fastener Range	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Battery-Actuated Nailers							
15 Gauge Finish Nailers							
34°	Tape	1¼" to 2½"	110	6.2 lb.	Senco	5N0001N	**48J292**
16 Gauge Finish Nailers							
Straight	Adhesive	¾" to 2½"	110	6 lb.	Senco	6U0001N	**48J294**
18 Gauge Brad Nailers							
Straight	Adhesive	⅝" to 2⅛"	110	6 lb.	Senco	6E0001N	**48J295**
Fuel-Actuated Nailers							
16 Gauge Finish Nailers							
20°	Adhesive	1¼" to 2½"	100	4.5 lb.	Paslode	902400	**36N562**
Straight	Adhesive	1¼" to 2½"	100	4.6 lb.	Paslode	916000	**48PD36**

Description	Mfr. Model	Item No.
Accessories for Paslode® Cordless Tools		
6.0V NiCd Battery	404717	**4WL38**
6.0V NiCd Battery Charger	900200	**4WL47**
7.4V Li-Ion Battery	902654	**19L845**
Accessories for Paslode® Cordless Nailers		
2 Fuel Cells and Adaptors All Paslode Cordless Trim and Brad Nailers, 5HB76, 48PD36, 36N562, 3FRR2	816007	**36N563**
Accessories for Senco® Cordless Nailers		
18.0V Li-Ion Battery	VB0155	**48J273**
18.0V Li-Ion Battery Charger	VB0156	**48J274**


No. 22EW01

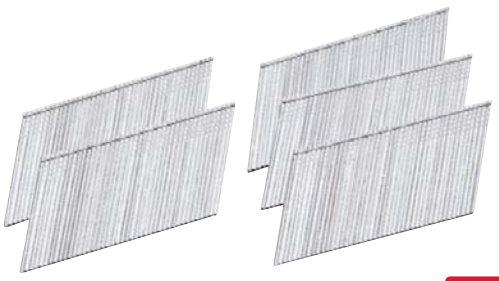

No. 22EW02

Nailer and Air Compressor Combination Kits

PORTER CABLE

All kits come with compressor, nailer, and hose.

HP	Input Voltage	Tank Style	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	Includes	Mfr. Model	Item No.
Kit w/ Compressor and Brad Nailer								
0.80	120VAC	Pancake	6.0 gal.	2.60	150 psi	Compressor, Brad Nailer, ¼ " Air Hose, Coupler, Plug, (100) 1¼" Brad Nails	PCFP12236	**22EW01**
Kit w/ Compressor, Brad Nailer and Finish Nailer								
0.80	120VAC	Pancake	6.0 gal.	2.60	150 psi	Compressor, Brad and Finish Nailer, ¼ " Air Hose, Coupler, Plug, (100) 1¼" Brad Nails, (100) 2" Finish Nails,	PCFP12656	**22EW02**



BOSTITCH DEWALT PORTER CABLE SENCO

15 ga. Angled Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

Collation Angle	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive						
Bostitch®						
25°	1½"	Coated	Chisel	FN1524	**5A858**	3655
25°	2"	Coated	Chisel	FN1532	**5A859**	3655
25°	2½"	Coated	Chisel	FN1540	**5A860**	3655
DeWalt®						
35°	1½"	Coated	Chisel	DCA15150-2	**52NY82**	2500
35°	2½"	Coated	Chisel	DCA15250-2	**52NY83**	2500
Porter Cable®						
34°	1"	Bright	Chisel	PDA15100	**3FZG1**	4000
34°	1¼"	Bright	Chisel	PDA15125	**3FZG2**	4000
34°	1½"	Bright	Chisel	PDA15150	**2VDJ5**	4000
34°	1¾"	Bright	Chisel	PDA15175	**3FZG3**	4000
34°	2"	Bright	Chisel	PDA15200	**2VDJ6**	4000
34°	2½"	Bright	Chisel	PDA15250	**2VDJ7**	4000
34°	2½"	Galvanized	Chisel	PDA15250G	**49VT77**	4000
Tape						
Senco®						
34°	1½"	Bright	Chisel	DA17EPBN	**19T447**	4000
34°	1½"	Galvanized	Chisel	DA17EABN	**19T448**	4000
34°	2"	Bright	Chisel	DA21EPBN	**19T449**	4000
34°	2"	Galvanized	Chisel	DA21EABN	**19T450**	4000
34°	2½"	Bright	Chisel	DA25EPB	**19T451**	3000
34°	2½"	Galvanized	Chisel	DA25EAB	**19T452**	3000

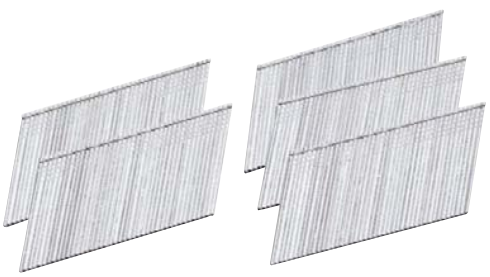


BOSTITCH
DEWALT
Paslode
PORTER CABLE
SENCO

16 ga. Straight Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive					
Bostitch®					
1½"	Coated	Chisel	SB16-1.50	**3HZJ6**	2500
2"	Coated	Chisel	SB16-2.00	**3HZJ7**	2500
2½"	Coated	Chisel	SB16-2.50	**3HZJ8**	2500
DeWalt®					
1¼"	Bright	Chisel	DCS16125	**3FZH3**	2500
1½"	Bright	Chisel	DCS16150	**3FZH4**	2500
2"	Bright	Chisel	DCS16200	**3FZH5**	2500
2½"	Bright	Chisel	DCS16250	**3FZH6**	2500
Paslode®					
1¼"	Zinc Galvanized	Chisel	650282	**5VK11**	2000
1½"	Zinc Galvanized	Chisel	650283	**4WL16**	2000
2"	Zinc Galvanized	Chisel	650285	**4WL17**	2000
2½"	Zinc Galvanized	Chisel	650287	**4WL14**	2000
Porter Cable®					
1¼"	Bright	Chisel	PFN16125	**3FZF1**	2500
1½"	Bright	Chisel	PFN16150	**3FZF2**	2500
1¾"	Bright	Chisel	PFN16175	**3FZF3**	2500
2"	Bright	Chisel	PFN16200	**3FZF4**	2500
2½"	Bright	Chisel	PFN16250	**3FZF5**	2500
Glue					
Senco®					
1½"	Galvanized	Chisel	M001003	**19T455**	2000
2"	Galvanized	Chisel	M001005	**19T456**	2000
2½"	Galvanized	Chisel	M001007	**19T457**	2000



DEWALT Paslode SENCO

16 ga. Angled Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

Collation Angle	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive						
DeWalt®						
20°	1¼"	Bright	Chisel	DCA16125	**3FZG8**	2500
20°	1½"	Bright	Chisel	DCA16150	**3FZG9**	2500
20°	2"	Bright	Chisel	DCA16200	**3FZH1**	2500
20°	2½"	Bright	Chisel	DCA16250	**3FZH2**	2500
Paslode®						
20°	1¼"	Zinc Galvanized	Chisel	650230	**5VK17**	2000
20°	1½"	Zinc Galvanized	Chisel	650231	**5VK18**	2000
20°	2"	Zinc Galvanized	Chisel	650047	**5VK16**	2000
20°	2½"	Zinc Galvanized	Chisel	650232	**5VK19**	2000
Glue						
Senco®						
20°	2"	Galvanized	Chisel	RH21EAA	**19T459**	2000
20°	2½"	Galvanized	Chisel	RH25EAA	**19T460**	2000



BOSTITCH DEWALT PORTER CABLE SENCO

18 ga. Brad Nails

Collated brads are for use with cordless and pneumatic brad nailers.

L	Finish	Mfr. Model	Item No.	Pkg. Qty.
Adhesive				
Bostitch®				
⅝"	Bright	BT1300B	**2W804**	3000
¾"	Bright	BT1303B	**2W805**	3000
1"	Bright	BT1309B	**2W806**	3000
1⅜"	Bright	BT1335B	**4WK95**	3000
1¾"	Bright	BT1345B	**4WK96**	2000
2"	Bright	BT1350B	**4WK97**	2000
DeWalt®				
⅜"	Coated	DBN18063-2	**52NY85**	2500
1¼"	Coated	DBN18125-2	**52NY86**	2500
1½"	Coated	DBN18150-2	**52NY87**	2500
2"	Coated	DBN18200-2	**52NY88**	2500
Porter Cable®				
⅝"	Bright	PBN18063	**3FZE2**	5000
¾"	Bright	PBN18075	**3FZE3**	5000
1"	Bright	PBN18100	**3FZE4**	5000
1¼"	Bright	PBN18125	**3FZE5**	5000
1½"	Bright	PBN18150	**3FZE6**	5000
1¾"	Bright	PBN18175	**3FZE7**	5000
2"	Bright	PBN18200	**3FZE8**	5000
Glue				
Senco®				
⅝"	Galvanized	AX10EAA	**19T462**	5000
¾"	Galvanized	AX11EAA	**19T463**	5000
1"	Galvanized	AX13EAA	**19T464**	5000
1¼"	Galvanized	AX15EAA	**19T465**	5000
1½"	Galvanized	AX17EAA	**19T466**	5000
1⅝"	Galvanized	AX18EAA	**19T467**	5000
2"	Galvanized	AX21EAAN	**19T468**	5000



BOSTITCH SENCO

Pneumatic Framing Nailers

Clipped Head—Drives ring, screw, and smooth-shank 34° paper taped strip nails. High-efficient internal design reduces less wear and tear. Eliminates jams and mis-feeds and fits easily between studs and joints.

Full Round Head—No. 35JG54 features a TrueDrive magazine to help reduce misfeeds and jams. Low-profile design allows use in tight spaces. No. 5KNH5 has a magnesium body with a 130:1 power-to-weight ratio and 1050 in.-lb. of driving power. Use in engineered lumber. Features tool-free push-button drive depth control, adjustable exhaust, and steel backer plate.

Offset Round Head—Features tool-free adjustable exhaust and push-button depth of drive.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Clipped Head Framing Nailer								
34°	Paper	2" to 3¼"	0.113" to 0.148"	83	7.90 lb.	Senco	FRAMEPRO 325XP	**48LR49**
Full Round Head Framing Nailer								
20°	Plastic	2" to 3¼"	0.113" to 0.148"	64	7.90 lb.	Senco	FRAMEPRO 325FRHXP	**35JG54**
21°	Plastic	1½" to 3½"	0.113" to 0.162"	60	8.00 lb.	Bostitch	F21PL	**2UV89**
	Plastic	2" to 3½"	0.113" to 0.162"	60	8.1 lb.	Bostitch	F21PL2	**5KNH5**
	Plastic	2" to 3¼"	0.113" to 0.131"	64	7.7 lb.	Bostitch	BTF83PL	**410X70**
Offset Round Head Framing Nailer								
28°	Wire	2" to 3½"	0.113" to 0.131"	100	7.70 lb.	Bostitch	F28WW	**2UV87**



DEWALT Paslode

Cordless Framing Nailers

Operate on a fuel cell and cordless battery. Both include a rechargeable Li-Ion battery and charger. No. 48PD34 features a nose that allows toe nailing at any angle, keyless adjustable depth of drive, and a heavy-duty utility hook.

Head Style	Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Cordless Framing Nailer									
Various	30°	Paper	2" to 3½"	0.113" to 0.131"	55	9.1 lb.	DeWalt	DCN692M1	**30PL22**
Round	30°	Paper	2" to 3¼"	0.113" to 0.131"	30	7.2 lb.	Paslode	905600	**48PD34**

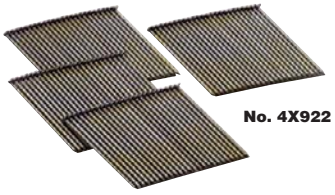
Includes	Mfr. Model	Item No.
Paslode® Fuel/Fastener Pack for No. 48PD34		
(1000) 2⅜" x 0.113", Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650522	**3FRR7**
(1000) 2⅜" x 0.113", Tape Collated, Ring Bright, (1) Fuel Cartidge & Adapter	650523	**3FRR8**
(1000) 3" x 0.120", Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650524	**3FRR9**
(1000) 3" x 0.131", Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650525	**3FRT1**
(1000) 2⅜" x 0.113", Tape Collated, Ring HDG+, (1) Fuel Cartidge & Adapter	650526	**3FRT2**
(1000) 3" x 0.120", Tape Collated, Ring HDG+, (1) Fuel Cartidge & Adapter	650527	**3FRT3**
(1000) 3¼" x 0.131", Tape Collated, Smooth Brite US32, (1) Fuel Cartidge & Adapter	650535	**3FRT4**
(1000) 2" x 0.113" Tape Collated Ring HDG+, (1) Fuel Cartidge & Adapter	650564	**3FRT6**

Description	Mfr. Model	Item No.
Accessories for Paslode® Cordless Tools		
(2) Fuel Cartridge For No. 19L844, 18PD34	816008	**31EE19**
6.0V Ni-Cd Battery	404717	**4WL38**
6.0V Ni-Cd Battery Charger	900200	**4WL47**
7.4V Li-Ion Battery	902654	**19L845**
Cordless Framing Nailer Red Fuel Cell, Pk. 2 for No. 4WL36	816000	**4WL45**
Cordless Lubricating Oil	401482	**4WL31**
Li-ion Battery Charger Kit, Cordless Nailers	902667	**19L846**


Full Round Head


Clipped Head Nail


No. 21U144


No. 4X922

BOSTITCH Paslode SENCO

Collated Framing Nails

For use with both cordless and pneumatic framing nailers.

Collation Angle	Collation Type	L	Shank	Shank Dia.	Finish	Item No.	Pkg. Qty.
Clipped Head							
Senco®							
34°	Tape	2⅜"	Ring	0.113"	Bright	**21U144**	2500
34°	Tape	3"	Smooth	0.131"	Bright	**21U142**	2500
34°	Tape	3"	Smooth	0.120"	Bright	**21U143**	2500
Full Round Head							
Bostitch®							
21°	Plastic	2⅜"	Smooth	0.113"	Coated	**4WL05**	5000
21°	Plastic	2⅜"	Ring	0.113"	Coated	**3HZG9**	5000
21°	Plastic	3"	Ring	0.120"	Hot Dipped Galvanized	**3HZG6**	4000
21°	Plastic	3"	Ring	0.131"	Hot Dipped Galvanized	**400F90**	4000
21°	Plastic	3"	Smooth	0.131"	Coated	**4WL03**	4000
21°	Plastic	3¼"	Smooth	0.131"	Coated	**4WL04**	4000
21°	Plastic	3¼"	Smooth	0.131"	Hot Dipped Galvanized	**3HZG8**	4000
Paslode®							
30°	Tape	2"	Ring	0.113"	Hot Dipped Galvanized	**3FRP6**	2000
30°	Tape	2⅜"	Ring	0.113"	Hot Dipped Galvanized	**5LB31**	2000
30°	Tape	3"	Ring	0.120"	Hot Dipped Galvanized	**3FRP7**	2000
30°	Tape	3"	Ring	0.131"	Hot Dipped Galvanized	**3FRP9**	2000
30°	Tape	3"	Smooth	0.131"	Brite US32	**31EE20**	2500
30°	Tape	3"	Smooth	0.120"	Brite US32	**31EE21**	2500
30°	Tape	3¼"	Smooth	0.131"	Hot Dipped Galvanized	**5LB33**	2000
30°	Tape	3¼"	Smooth	0.131"	Brite US32	**31EE22**	2500
Senco®							
15°	Wire	2⅜"	Ring	0.113"	Bright	**48LR13**	6000
15°	Plastic	3"	Smooth	0.120"	Bright	**48LR14**	4000
15°	Wire	3"	Ring	0.120"	Hot Dipped Galvanized	**48LR15**	2400
20°	Plastic	2⅜"	Ring	0.113"	Bright	**21U146**	5000
20°	Plastic	2½"	Smooth	0.131"	Bright	**48LR16**	4000
20°	Plastic	3"	Smooth	0.113"	Bright	**21U145**	4000
20°	Plastic	3¼"	Smooth	0.131"	Hot Dipped Galvanized	**48LR17**	2500
20°	Plastic	3¼"	Smooth	0.131"	Bright	**48LR18**	4000
20°	Plastic	3½"	Smooth	0.131"	Bright	**48LR19**	4000
34°	Tape	2"	Ring	0.113"	Hot Dipped Galvanized	**48LR50**	2500
34°	Tape	2⅜"	Ring	0.113"	Bright	**48LR51**	2500
34°	Tape	2⅜"	Ring	0.113"	Hot Dipped Galvanized	**48LR52**	2500
34°	Tape	3"	Smooth	0.120"	Bright	**48LR53**	2500
34°	Tape	3"	Ring	0.120"	Hot Dipped Galvanized	**48LR55**	2500
34°	Tape	3"	Smooth	0.131"	Bright	**48LR56**	2500
34°	Tape	3"	Smooth	0.131"	Hot Dipped Galvanized	**48LR57**	2500
34°	Tape	3"	Ring	0.131"	Hot Dipped Galvanized	**48LR61**	2500
34°	Tape	3¼"	Smooth	0.131"	Bright	**48LR58**	2500
34°	Tape	3¼"	Smooth	0.131"	Hot Dipped Galvanized	**48LR59**	2500
34°	Tape	3½"	Smooth	0.131"	Bright	**48LR60**	2500
Offset Round Head							
Bostitch®							
28°	Wire	2"	Smooth	0.113"	Coated	**5X386**	2000
28°	Wire	2⅜"	Smooth	0.120"	Coated	**5W231**	2000
28°	Wire	2⅜"	Smooth	0.120"	Thickcoat Galvanized	**4X953**	2000
28°	Wire	2⅜"	Ring	0.120"	Coated	**3HZH5**	2000
28°	Wire	3"	Smooth	0.120"	Coated	**4X922**	2000
28°	Wire	3"	Smooth	0.120"	Thickcoat Galvanized	**4X954**	2000
28°	Wire	3"	Ring	0.120"	Thickcoat Galvanized	**3HZH4**	2000
28°	Wire	3¼"	Smooth	0.120"	Coated	**5X389**	2000
28°	Wire	3¼"	Smooth	0.120"	Thickcoat Galvanized	**4X955**	2000
28°	Wire	3½"	Smooth	0.131"	Coated	**5X390**	2000
28°	Wire	3½"	Smooth	0.131"	Thickcoat Galvanized	**4X956**	2000



No. 4Z782



No. 48LR62

BOSTITCH SENCO

Pneumatic Coil Roofing Nailers and Nails

These nailers feature depth-of-drive adjustment for added versatility. No. 4Z782 has contact trip trigger and magnesium housing for durability. Features fixed exhaust, single-action canister, rubber housing pads that prevent sliding, and tool-free shingle gauge. Hardened nose with carbide inserts resists wear. No. 48LR62 features an innovative firing valve that reduces air consumption without a reduction in speed or power. Includes an adjustable and removable shingle guide.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Straight								
15°	Wire	¾" to 1¾"	0.120"	120	4.90 lb.	Bostitch	RN46-1	**4Z782**
Angled								
15°	Wire	¾" to 1¾"	0.120"	120	5.20 lb.	Senco	ROOFPRO 445XP	**48LR62**

L	Mfr. Model	Item No.	Pkg. Qty.
Bostitch® Smooth, 15°, 0.120" Shank Dia.			
1"	CR2DGAL	**5W012**	7200
1¼"	CR3DGAL	**2W762**	7200
1½"	CR4DGAL	**2W763**	7200
1¾"	CR5DGAL	**2W764**	7200
Senco® Smooth, 0°, 0.120" Shank Dia.			
1¼"	M003104	**21U158**	7200
Senco® Smooth, 15°, 0.120" Shank Dia.			
¾"	M003101	**48LR63**	7200
⅞"	M003102	**48LR64**	7200
1"	M003103	**48LR65**	7200
1½"	M003105	**48LR66**	7200
1¾"	M003106	**48LR67**	7200


No. 31CC52



No. 4Z931

BOSTITCH SPEEDAIRE SENCO

Pneumatic Coil Framing Nailers and Nails

- Aluminum housing

Quick-driving nailers are easy to handle. No. 31CC52 includes 5mm and 6mm hex wrenches. No. 4Z931 has adjustable exhaust.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Air Framing Nailer								
15°	Wire	½" to 3¼"	0.099" to 0.130"	300	8.16 lb.	Speedaire	31CC52	**31CC52**
15°	Wire	1½" to 3¼"	0.099" to 0.120"	300	8.40 lb.	Bostitch	N80CB-1	**4Z931**
15°	Wire	2" to 3½"	0.099" to 0.131"	225/275	8.00 lb.	Senco	SCN65XP	**48LR11**

L	Shank Dia.	Shank	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Bostich®, Wire Collation Type, 15° Collation Angle, Framing Nails							
2"	0.099"	Smooth	Coated	Diamond	C6P99D	**5W014**	3600
2½"	0.120"	Smooth	Coated	Diamond	C8P120D	**5W016**	2700
3"	0.120"	Smooth	Coated	Diamond	C10P120D	**5W017**	2700
3"	0.120"	Smooth	Thickcoat Galvanized	Diamond	C10P120DG	**3HZH6**	2700
3¼"	0.120"	Smooth	Coated	Diamond	C12P120D	**5W018**	2700
3¼"	0.120"	Smooth	Thickcoat Galvanized	Diamond	C12P120DG	**3HZH7**	2700
Bostich®, Wire Collation Type, 15° Collation Angle, Siding Nails							
2½"	0.099"	Ring	Coated	Blunt Diamond	C8R99BD	**3HZJ3**	3600
2½"	0.099"	Ring	Thickcoat Galvanized	Blunt Diamond	C8R99BDG	**3HZJ2**	3600



No. 3HZF8

BOSTITCH SENCO DUO-FAST

Pneumatic Coil Siding/ Utility Nailers and Nails

These nailers drive wire and plastic-sheet collated nails and have adjustable depth of drive. No. 31CC55 has tool-less depth adjustment and a transparent magazine cover. No. 3HZF8 features tool-free adjustable exhaust and soft rubber foot. No. 21U132 has a trigger to select the operation mode.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Angled								
15°	Wire/Plastic	1¼" to 2½"	0.080" to 0.090"	300 to 350	4.70 lb.	Bostitch	N66C-1	**3HZF8**
15°	Wire/Plastic	1¼" to 2½"	0.082" to 0.113"	250 to 375	5.1 lb.	Senco	SCN49XP	**21U132**

Length	Shank Dia.	Shank	Finish	Mfr. Model	Item No.	Pkg. Qty.
Bostitch®, Wire Collation, 15° Coil Siding/Utility Nails						
1⅜"	0.100"	Spiral	Mechanically Galvanized	C4DCSBALG	**5KNH6**	3600
2"	0.092"	Ring	Thickcoat Galvanized	C6R90BDG	**3HZH8**	3600
2⅜6"	0.090"	Ring	Thickcoat Galvanized	C7R90BDG	**3HZH9**	3600
2½"	0.090"	Ring	Thickcoat Galvanized	C8R90BDG	**3HZJ1**	3600
Duo-Fast®, Plastic Collation, 0° Coil Siding/Utility Nails						
1⅞"	0.086"	Ring	Hot Dipped Galvanized	650392	**6KVX2**	3600
2¼"	0.092"	Ring	Hot Dipped Galvanized	650394	**6KVX3**	3600
Senco 15° Full Round Shank Coil Siding/Utility Nails						
2¼"	0.092"	Smooth	Electro Galvanized	ED23AABH	**48LP97**	3600
2¼"	0.092"	Smooth	Hot Dipped Galvanized	EJ23ASBC	**48LP98**	3600
Senco 15° Ring Shank Coil Siding/Utility Nails						
1¾"	0.092"	Ring	Hot Dipped Galvanized	EL19ASBH	**21U147**	3600
2"	0.092"	Ring	Hot Dipped Galvanized	EL21ASBH	**21U148**	3600



No. 48LP96

SENCO

Pneumatic Pallet Nailer and Nails

Features high load capacity and an adjustable nail canister that accepts nails up to 2¼". Has a rugged driver and piston bumper for long life, and side steel wear plates for added housing protection. Ideal for boxes, crates, and pallet applications.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Mfr. Model	Item No.
Angled							
15°	Wire	1" to 2¼"	0.082" to 0.092"	300/350	5.90 lb.	PALLETPRO57FXP	**48LP96**

Length	Shank Dia.	Shank	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Wire Collation Type, 15° Collation Angle Framing Nails							
2¼"	0.092"	Ring	Hot Dipped Galvanized	Diamond	EL23ASBH	**48LP99**	3600

SENCO
BOSTITCH
Milwaukee

Pneumatic Palm Nailers

Magnetic nose helps ensure accurate nail placement. Kit No. 2UV91 includes nailer with standard nose, finish nail and large bore noses, leather comfort glove, nose and hex wrenches, tool lubricant, and spare O-rings.

Cordless—Drives as many as 100 nails on a single charge. Includes battery, charger, carrying case, and hand strap.



No. 2UV91



No. 6AWD0

Description	Shank Dia.	Tool Wt.	Brand	Mfr. Model	Item No.
Pneumatic					
Air Palm Nailer	0.113" to 0.148"	2.40 lb.	Senco	A20 HAND NAILER	**48LR20**
Palm Nailer Kit	Up to 0.160"	2.90 lb.	Bostitch	PN100K	**2UV91**
Cordless					
Cordless Palm Nailer Kit	0.080 to 0.160"	3.4 lb.	Milwaukee	2458-21	**6AWD0**
Repair Kit for Palm Nailer					
For Use with No. 2UV91			Bostitch	120965	**1XPY3**



No. 21U159

SENCO BOSTITCH

Pneumatic Concrete Nailers and Nails

For installing carpet edge molding, floor underlayment, metal drywall track, tackless carpet strip, and wood furring. No. 21U159 high-speed nailer has high-capacity magazine, reducing reload time. Aluminum housing.

Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Pneumatic Concrete Nailer							
Plastic	½" to 1½"	0.109" to 0.118"	42	7.10 lb.	Senco	SCP40XP	**48LR30**
Adhesive	⅝" to 2¼"	0.097"	66	7.12 lb.	Bostitch	MIII812CNCT	**21U159**

L	Mfr. Model	Item No.	Pkg. Qty.
Concrete Nails			
Bostitch®			
⅜"	BT484GXH-2.5M	**21U160**	2500
⅝"	BT461XH-2.5M	**21U162**	2500
¾"	BT488XH-2.5M	**21U163**	2500
1⅛"	BT490XH-2.5M	**21U164**	2500
1½"	BT471XH-2.5M	**21U167**	2500

L	Mfr. Model	Item No.	Pkg. Qty.
Senco®			
¾"	W3075YXC	**48LR31**	1000
1"	W3100YXC	**48LR32**	1000
1¼"	W3125YXC	**48LR33**	1000



No. 4WK99

SENCO BOSTITCH

Pneumatic Flooring Stapler/Nailer and Staples/Nails

Use to install hardwood flooring without hammer marks. Rubber mallet included.

Gauge	Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Flooring Staplers							
15½	½"	1½ to 2"	92	11.2 lb.	Bostitch	MIIIFS	**4WK99**
Flooring Nailer							
16	—	1½" to 2"	107	10.1 lb.	Senco	SHF200	**48LR45**

Gauge	Crown	Head Style	L	Finish	Point Type	For Use With	Mfr. Model	Item No.	Pkg. Qty.
Flooring Staples									
Bostitch®									
15.5 ga.	½"	Crown	1½"	Coated	Chisel	Mfr. No. MIIIFS	BCS1512	**4WK93**	9600
15.5 ga.	½"	Crown	1¾"	Coated	Chisel	Mfr. No. MIIIFS	BCS1514	**4WK94**	7720
15.5 ga.	½"	Crown	2"	Coated	Chisel	Mfr. No. MIIIFS	BCS1516	**3HZK4**	7728
Senco®									
15.5 ga.	½"	Crown	1½"	Electro Galvanized	Chisel	Mfr. No. SHFS200	FL17BAB	**48LR42**	5200
15.5 ga.	½"	Crown	1¾"	Electro Galvanized	Chisel	Mfr. No. SHFS200	FL19BAB	**48LR43**	5200
Flooring Nails									
Senco®									
16 ga.	—	L-Head	1½"	Bright	Blunt Diamond	Mfr. No. SHF200	RW17BPE	**48LR46**	1000
16 ga.	—	L-Head	1¾"	Bright	Blunt Diamond	Mfr. No. SHF200	RW19BPE	**48LR47**	1000
16 ga.	—	L-Head	2"	Bright	Blunt Diamond	Mfr. No. SHF200	RW21BPE	**48LR48**	1000



No. 3HZG1

Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Upholstery Staplers						
½"	5/32 to 9/16"	156	1.8 lb.	Bostitch	21680B-ALM	**3HZG1**
½"	¼" to ½"	110/192	2.1 lb.	Senco	SFT10XP	**48LR37**

BOSTITCH
SENCO

Pneumatic Upholstery Staplers and Staples

No. 3HZG1 has auto-fire feature, long magazine, and 2-function trigger with light squeeze. No. 48LR37 has a short trigger stroke and is designed not to snag or scuff fabric. The rear exhaust system keeps oil from staining the upholstery.

Crown	L	Finish	Point Type	Brand	Mfr. Model	Item No.	Pkg. Qty.
Upholstery Staples							
½"	5/16"	Coated	Chisel	Bostitch	BA-38008LS	**3HZK2**	21000
½"	5/16"	Electro Galvanized	Chisel	Senco	F05BAAP	**48LR38**	24000
½"	⅜"	Coated	Chisel	Bostitch	BA-38010LS	**3HZK3**	18000
½"	⅜"	Electro Galvanized	Chisel	Senco	F06BAAP	**48LR39**	24000
½"	½"	Electro Galvanized	Chisel	Senco	F08BAAP	**48LR40**	15000



No. 48LR01

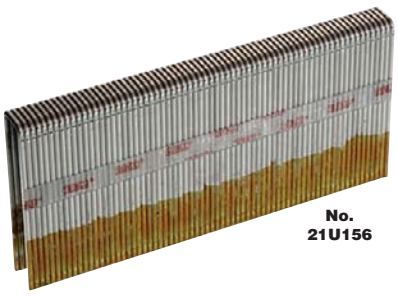
SENCO

Pneumatic Carton Closing Stapler and Staples

Powerful tool can handle hard and dense material, and provides added strength for larger butt joints. Suitable for joint fastening in box, crate, pallet, truss, and wood assembly.

Leg Length	Crown	Magazine Cap.	Tool Wt.	Mfr. Model	Item No.
Staple Gun					
¼ in to ½ in	1 in	80	6.9 lb	SC2 SENCOR	**48LR01**

Leg Length	Crown	Gauge	Mfr. Model	Item No.	Pkg. Qty.
Staples					
¼ in	1 in	25 ga	X04NRA	**48LR03**	8000
½ in	1 in	25 ga	X08NRA	**48LR02**	4000
⅜ in	1 in	25 ga	X06NRA	**48LR04**	5000



No. 21U156

SENCO

16-Ga. Construction Staples

These chisel point staples can be used with a variety of stapler brands and models.

Crown	L	Finish	Mfr. Model	Item No.	Pkg. Qty.
7/16 in	1 ½ in	Bright	N17BRB	**21U152**	10000
	1 ½ in	Class 1 Galvanized	N17BAB	**21U153**	10000
	1 ¼ in	Electro Galvanized	N15BAB	**48LR28**	10000
	2 in	Class 1 Galvanized	N21BAB	**21U154**	10000
	2 in	Bright	N21BRB	**21U155**	10000
1 in	⅝ in	Class 1 Galvanized	P10BAB	**21U156**	10000
	¾ in	Electro Galvanized	P11BAB	**48LR24**	10000
	1 ¼ in	Class 1 Galvanized	P15BAB	**21U157**	10000
	1 in	Electro Galvanized	P13BAB	**48LR25**	10000
	1 ½ in	Electro Galvanized	P17BAB	**48LR26**	10000
	2 in	Electro Galvanized	P21BAB	**48LR27**	5000

BOSTITCH SENCO

18-Ga. Finish Staples

These staples can be used with a variety of stapler brands and models.



Crown	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Bostitch®						
7/32 in	½ in	Coated	Chisel	SX50351/2G-7M	**3RCY7**	7000
	¾ in	Coated	Chisel	SX5035 3/4G	**4WL11**	5000
	1 in	Coated	Chisel	SX50351G	**4YF10**	5000
	1 ¼ in	Coated	Chisel	SX5035 1-1/4G	**4YF08**	3000
	1 ⅜ in	Coated	Chisel	SX50351-3/8G	**4WL09**	3000
Senco®						
¼ in	1 in	Galvanized	Chisel	L13BABN	**21U149**	5000
	1 ¼ in	Galvanized	Chisel	L15BAB	**21U150**	5000
	1 ½ in	Galvanized	Chisel	L17BAB	**21U151**	5000



No. 31CC54

SPEEDAIRE SENCO

Pneumatic 16-Ga. Construction Staplers

Staples are sold separately, this page.

Speedaire®—Features a top-loading magazine for fast loading and adjustable depth control. Tool has a 360° adjustable exhaust port and a comfortable rubber handle.

Senco®—No. 48LR68 allows fast multidirectional stitching. Nos. 48LR68 and 48LR23 have EZ-Clear feature that reduces downtime due to fastener jams.

Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Air Framing Stapler						
1 in	⅞" to 2"	160	5.3 lb.	Senco	WC200XP	**48LR23**
Air Roofing Stapler						
1 in	⅝" to 1 ½"	160	5.5 lb.	Senco	WC150RXP	**48LR29**
Staple Gun						
7/16 in	1 in to 2 in	160	4.6 lb	Senco	SNS41	**48LR68**
1 in	½ in to 1½ in	160	5.5 lb	Speedaire	31CC54	**31CC54**



No. 45YJ65

BOSTITCH
PORTER CABLE

Pneumatic 18-Ga. Finish Staplers

Bostitch®—Tool-free access to drive channel, over-molded grip, dry-fire lockout, and rear exhaust. Oil-free. Fastener is sequential-trip release.

Porter Cable®—Features toolless depth-of-drive adjustment and split nose design, helps removal of jammed staples. Convenient low staple reload indicator alerts you when to reload magazine. Magnesium body.

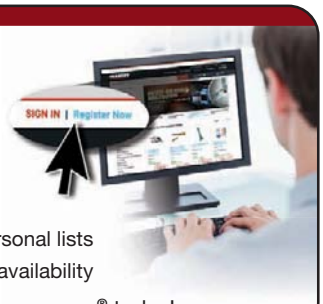
Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
7/32 in	½ to 1 ½ in	100	3 lb	Bostitch	SX1838K	**3FWY4**
¼ in	½ in to 1 ½ in	100	2.6 lb	Porter Cable	NS150C	**45YJ65**

REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!



SPEEDAIRE · Chicago Pneumatic · Ingersoll Rand

Pneumatic Impact Wrenches

- Max. psi: 90
- Butterfly throttles on in-line units allow 1-handed forward and reverse control
- Max. torque is in reverse

Light- and general-duty wrenches are best for automotive, basic maintenance, and light production applications. General-Duty Kit No. 1FYV1 includes No. 2Z747 impact wrench, 4-oz. bottle of air tool oil, quick coupler, male plug, 3" extension, carrying case, and ½", 9/16", 5/8", ¾", and ⅞" sockets. No. 21AA49 features exhaust and handle with grip. No. 21AA50 has front exhaust and handle without grip.

Note: For Impact Sockets, Mini and Light Duty Wrenches and Kits, go to Grainger.com®.


No. 2Z747


No. 45GG13


No. 46Z433


No. 13E913


No. 21AA57


No. 39D663


No. 5LA70


No. 21AA52

Style	Retainer Type	Fastening Torque	Breakaway Torque	Air Inlet	Anvil	Brand	Mfr. Model	Item No.
¼ in Square								
General Duty								
Pistol Grip	Ball Detent	75 ft-lb	75 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA44	**21AA44**
Light Duty								
Inline	Friction Ring	59 ft-lb	81 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7711	**48FX80**
⅜ in Square								
General Duty								
Inline	Friction Ring	65 ft-lb	90 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7722	**11C936**
	Friction Ring	75 ft-lb	75 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA46	**21AA46**
	Friction Ring	80 ft-lb	80 ft-lb	¼ in NPT	Standard	Speedaire	45NW50	**45NW50**
Pistol Grip	Friction Ring	100 ft-lb	100 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA45	**21AA45**
	Friction Ring	150 ft-lb	180 ft-lb	¼ in NPT	Standard	Ingersoll Rand	212	**4Z623**
	Friction Ring	190 ft-lb	200 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP724H	**11C921**
Inline	Friction Ring	200 ft-lb	200 ft-lb	¼ in NPT	Standard	Ingersoll Rand	216B	**5GEA7**
Pistol Grip	Friction Ring	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115QTiMAX	**20CK92**
	Friction Ring	295 ft-lb	295 ft-lb	¼ in NPT	Standard	Speedaire	45NW48	**45NW48**
	Pin Detent	295 ft-lb	295 ft-lb	¼ in NPT	Standard	Speedaire	45NW49	**45NW49**
	Friction Ring	300 ft-lb	415 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7729	**11C937**
	Friction Ring	400 ft-lb	400 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA47	**21AA47**
Industrial Duty								
Inline	Pin Detent	85 ft-lb	105 ft-lb	¼ in NPT	Standard	Ingersoll Rand	1702SB1	**3Y598**
	Pin Detent	125 ft-lb	125 ft-lb	¼ in NPT	Standard	Speedaire	45NW51	**45NW51**
Pistol Grip	Friction Ring	150 ft-lb	180 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP6300RSR	**11C908**
	Pin Detent	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115PTiMAX	**2NCU5**
	Friction Ring	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115TiMAX	**2NCU6**
	Friction Ring	300 ft-lb	300 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA55	**21AA55**
Light Duty								
Inline	Friction Ring	59 ft-lb	81 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7721	**48FX84**
½ in Square								
General Duty								
Pistol Grip	Friction Ring	250 ft-lb	250 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA48	**21AA48**
	Friction Ring	305 ft-lb	450 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7739	**11C941**
	Friction Ring	425 ft-lb	590 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231HA	**4YD62**
	Friction Ring	425 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231C	**2Z747**
	Friction Ring	425 ft-lb	1,050 ft-lb	¼ in NPT	2" Extended	Ingersoll Rand	231HA-2	**6Z917**
	Friction Ring	450 ft-lb	450 ft-lb	¼ in NPT	Standard	Ingersoll Rand	236	**5LA59**
	Friction Ring	450 ft-lb	610 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP749	**11C932**
	Friction Ring	450 ft-lb	625 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP749-2	**11C933**
	Friction Ring	500 ft-lb	500 ft-lb	¼ in NPT	Standard	Ingersoll Rand	244A	**4Y348**
	Friction Ring	500 ft-lb	625 ft-lb	¼ in NPT	Standard	Ingersoll Rand	232TGSL	**3YY33**
	Friction Ring	520 ft-lb	955 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7749	**11C942**
	Friction Ring	520 ft-lb	955 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP7749-2	**11C943**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231CK	**1FYV1**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA49	**21AA49**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA50	**21AA50**
	Friction Ring	600 ft-lb	600 ft-lb	⅜ in NPT Female	2" Extended	Speedaire	21AA53	**21AA53**
	Friction Ring	870 ft-lb	900 ft-lb	¼ in NPT Female	Standard	Ingersoll Rand	2235QTiMAX	**45JW68**
	Friction Ring	900 ft-lb	930 ft-lb	¼ in NPT Female	Standard	Ingersoll Rand	2235TiMAX	**45GG13**
	Friction Ring	900 ft-lb	930 ft-lb	¼ in NPT Female	2" Extended	Ingersoll Rand	2235TiMAX-2	**45JW67**
Industrial Duty								
Pistol Grip	Pin Detent	251 ft-lb	332 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2125PTiMAX	**2NCU7**
	Pin Detent	275 ft-lb	450 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2707P1	**4Z254**
	Friction Ring	320 ft-lb	450 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP9541	**11C995**
	Friction Ring	332 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2125QTiMAX	**24K077**
	Pin Detent	350 ft-lb	500 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2906P1	**3Y582**
	Pin Detent	500 ft-lb	500 ft-lb	¼ in NPT	Standard	Speedaire	45NW52	**45NW52**
	Pin Detent	502 ft-lb	625 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP6500RS	**11C909**
	Pin Detent	553 ft-lb	700 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP8252-P	**46Z434**
	Friction Ring	570 ft-lb	665 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7736	**45GF57**
	Friction Ring	570 ft-lb	665 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP7736-2	**45GF58**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA58	**21AA58**
	Pin Detent	600 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2705P1	**4Z942**
	Friction Ring	780 ft-lb	780 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA56	**21AA56**
	Pin Detent	930 ft-lb	930 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2235PTiMAX	**52JG38**
¾ in Square								
General Duty								
Pistol Grip	Friction Ring	500 ft-lb	500 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA51	**21AA51**
	Friction Ring	700 ft-lb	1,000 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP772H	**11C938**
	Friction Ring	950 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP7763	**11C944**
	Friction Ring, Through Hole	950 ft-lb	1,200 ft-lb	⅜ in NPT	6" Extended	Chicago Pneumatic	CP7763-6	**11Z513**
	Friction Ring	1,050 ft-lb	1,050 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	259	**5LAN7**
	Friction Ring, Through Hole	1,150 ft-lb	1,150 ft-lb	⅜ in NPT	Standard	Speedaire	45NW53	**45NW53**
	Friction Ring, Through Hole	1,150 ft-lb	1,150 ft-lb	⅜ in NPT	3" Extended	Speedaire	45NW54	**45NW54**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	261	**5LA58**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	3" Extended	Ingersoll Rand	261-3	**5LA69**
Industrial Duty								
Pistol Grip	Through Hole	600 ft-lb	100 ft-lb	⅜ in NPT	—	Ingersoll Rand	1720P1	**4Z255**
	Through Hole	900 ft-lb	1,100 ft-lb	⅜ in NPT	Square	Chicago Pneumatic	CP6060-P15H	**42NX06**
	Friction Ring	900 ft-lb	1,100 ft-lb	⅜ in NPT	Square	Chicago Pneumatic	CP6060-P15R	**42NX07**
	Friction Ring, Through Hole	922 ft-lb	1,217 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP8272-D	**46Z433**
	Friction Ring, Through Hole	1,100 ft-lb	1,350 ft-lb	½ in NPT Female	Standard	Ingersoll Rand	2145QIMAX-A	**13E913**
	Friction Ring, Through Hole	1,100 ft-lb	1,350 ft-lb	½ in NPT Female	Standard	Ingersoll Rand	2155QIMAX	**52JG37**
	Friction Ring	1,250 ft-lb	1,360 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2161XP	**4UJL2**
	Through Hole	1,300 ft-lb	1,600 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2925RBP1TI	**3YU97**
	Friction Ring	1,400 ft-lb	1,400 ft-lb	⅜ in NPT Female	Standard	Speedaire	21AA57	**21AA57**
1 in Square								
General Duty								
D-Handle	Friction Ring	900 ft-lb	1,400 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP797-6	**11C958**
Pistol Grip	Friction Ring	950 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP7773	**11C945**
	Friction Ring, Through Hole	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Speedaire	45NW58	**45NW58**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	271	**5LA68**
D-Handle	Friction Ring, Through Hole	1,253 ft-lb	1,770 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP7783-6	**420A29**
	Friction Ring, Through Hole	1,253 ft-lb	1,770 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7783	**420A30**
Pistol Grip	Friction Ring, Through Hole	1,475 ft-lb	1,475 ft-lb	½ in NPT	Standard	Ingersoll Rand	295A	**5LA60**
D-Handle	Friction Ring, Through Hole	1,475 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7782	**39D663**
	Friction Ring, Through Hole	1,475 ft-lb	1,475 ft-lb	½ in NPT	6" Extended	Ingersoll Rand	285B-6	**5LA70**
	Friction Ring, Through Hole	1,475 ft-lb	1,920 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP7782-6	**39D664**
	Friction Ring	1,600 ft-lb	1,600 ft-lb	½ in NPT Female	Standard	Speedaire	21AA52	**21AA52**
	Friction Ring	1,600 ft-lb	1,600 ft-lb	½ in NPT Female	7" Extended	Speedaire	21AA54	**21AA54**
Pistol Grip	Friction Ring, Through Hole	2,000 ft-lb	2,000 ft-lb	½ in NPT	Standard	Speedaire	45NW56	**45NW56**

CONTINUED

CONTINUED

SPEEDAIRE Chicago Pneumatic Ingersoll Rand

Pneumatic Impact Wrenches


No. 45NW57


No. 36WC29

Style	Retainer Type	Fastening Torque	Breakaway Torque	Air Inlet	Anvil	Brand	Mfr. Model	Item No.
1 in Square (Cont.)								
Industrial Duty								
Pistol Grip	Through Hole	900 ft-lb	1,100 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP6070-P15H	**45RA81**
D-Handle	Through Hole	1,000 ft-lb	1,350 ft-lb	½ in NPT	Standard	Ingersoll Rand	1712B2	**3Y596**
Pistol Grip	Through Hole	1,400 ft-lb	2,000 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP796	**11C957**
	Through Hole	1,450 ft-lb	1,600 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2925P3TI	**3YU98**
	Friction Ring, Through Hole	1,530 ft-lb	1,770 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7776	**38VJ42**
	Friction Ring, Through Hole	1,550 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6910-P24	**42NX14**
D-Handle	Friction Ring, Through Hole	1,550 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6920-D24	**42NX15**
Pistol Grip	Through Hole	1,600 ft-lb	1,600 ft-lb	½ in NPT	Standard	Speedaire	45NW57	**45NW57**
D-Handle	Friction Ring, Through Hole	1,600 ft-lb	1,600 ft-lb	½ in NPT	Standard	Speedaire	45NW59	**45NW59**
Pistol Grip	Through Hole	1,650 ft-lb	2,500 ft-lb	½ in NPT	Standard	Ingersoll Rand	3940P2Ti	**1FYD6**
D-Handle	Through Hole	1,650 ft-lb	2,500 ft-lb	½ in NPT	Standard	Ingersoll Rand	3940B2TI	**1FYD5**
Pistol Grip	Through Hole	1,800 ft-lb	2,800 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP0611PRS	**11C892**
D-Handle	Through Hole	1,800 ft-lb	2,800 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP0611-D28H	**42NX04**
1 ½ in Square								
	Through Hole	3,400 ft-lb	3,400 ft-lb	¾ in NPT	Standard	Speedaire	45NW55	**45NW55**
D-Handle	Through Hole	3,900 ft-lb	5,000 ft-lb	½ in NPT	Standard	Ingersoll Rand	3955B2TI	**1FYD4**
	Through Hole	4,055 ft-lb	5,900 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6135-D80	**36WC29**

SPEEDAIRE Ingersoll Rand Chicago Pneumatic

Air Ratchets

- Max. psi: 90
- Air inlet: ¼"
- Min. hose size: ⅜"

All feature ball detent for easy socket change, reversible operation, ball and needle bearing construction, and lever throttle for variable speed control. No. 5LA66 has a push-button throttle.


No. 45NW45


No. 5LA63

Light-Duty Kit, No. 48MA09— Includes ratchet wrench No. 48LZ90, 3" extension bar, (16) impact sockets, 13/16" spark plug.


No. 11C948

Fastening Torque	Free Speed	L	Side to Center	Brand	Mfr. Model	Item No.
¼ in Square						
General Duty						
20 ft-lb	240 RPM	6 5/16"	3/16 in	Speedaire	21AA60	**21AA60**
25 ft-lb	250 RPM	7 5/16"	1 ½ in	Ingersoll Rand	105-D2	**5LAN0**
	250 RPM	8 3/8"	1 ½ in	Ingersoll Rand	105-L2	**5LAN2**
30 ft-lb	350 RPM	5 1/4"	3/16 in	Speedaire	21AA59	**21AA59**
Industrial Duty						
30 ft-lb	300 RPM	7 1/4"	1 3/16 in	Ingersoll Rand	1105MAX-D2	**5LAN3**
Light Duty						
18 ft-lb	250 RPM	6 ½"	—	Speedaire	48LZ94	**48LZ94**
Light Duty, Mini						
30 ft-lb	200 RPM	7 3/4"	¾ in	Speedaire	21AA62	**21AA62**
⅜ in Square						
General Duty						
20 ft-lb	240 RPM	6 5/16"	3/16 in	Speedaire	21AA61	**21AA61**
25 ft-lb	250 RPM	7 5/16"	1 ⅜ in	Ingersoll Rand	105-D3	**5LAN1**
40 ft-lb	220 RPM	7 21/32"	1 1/16 in	Speedaire	45NW45	**45NW45**
50 ft-lb	150 RPM	10"	¾ in	Chicago Pneumatic	CP828	**11C962**
	150 RPM	10"	⅞ in	Speedaire	21AA63	**21AA63**
	150 RPM	10"	13/16 in	Speedaire	21AA64	**21AA64**
54 ft-lb	160 RPM	11"	1 ½ in	Ingersoll Rand	107XPA	**5LA63**
76 ft-lb	220 RPM	12"	2 in	Ingersoll Rand	109XPA	**5LA67**
General Duty, Mini Ratchet						
27 ft-lb	270 RPM	5 7/64"	½ in	Chicago Pneumatic	CP9427	**11C993**
Industrial Duty						
20 ft-lb	275 RPM	7 13/32"	⅝ in	Speedaire	45YY11	**45YY11**
30 ft-lb	300 RPM	7 1/4"	1 1/16 in	Ingersoll Rand	1105MAX-D3	**5LAN4**
65 ft-lb	220 RPM	10 3/4"	1 ⅜ in	Ingersoll Rand	1207MAX-D3	**5LAN5**

Fastening Torque	Free Speed	L	Side to Center	Brand	Mfr. Model	Item No.
70 ft-lb	200 RPM	11 ½"	13/16 in	Speedaire	45YY12	**45YY12**
	225 RPM	9 13/16"	¾ in	Chicago Pneumatic	CP7829	**48FX87**
	200 RPM	11 ½"	13/16 in	Speedaire	45YY13	**45YY13**
80 ft-lb	200 RPM	10"	⅞ in	Speedaire	21AA65	**21AA65**
90 ft-lb	190 RPM	12"	¾ in	Chicago Pneumatic	CP7830Q	**11C949**
110 ft-lb	180 RPM	10 5/8"	15/16 in	Speedaire	45NW46	**45NW46**
	180 RPM	10 5/8"	15/16 in	Speedaire	45NW47	**45NW47**
Light Duty						
50 ft-lb	150 RPM	10 ½"	—	Speedaire	48LZ90	**48LZ90**
Light Duty, Mini						
18 ft-lb	240 RPM	5 ½"	—	Speedaire	10D236	**10D236**
Light Duty Kit						
50 ft-lb	150 RPM	10 ½"	—	Speedaire	48MA09	**48MA09**
½ in Square						
General Duty						
50 ft-lb	150 RPM	10"	¾ in	Chicago Pneumatic	CP828H	**11C963**
	150 RPM	10"	13/16 in	Speedaire	21AA66	**21AA66**
54 ft-lb	160 RPM	11"	1 ½ in	Ingersoll Rand	1077XPA	**5LA64**
76 ft-lb	220 RPM	12"	1 1/16 in	Ingersoll Rand	1099XPA	**5LA66**
Industrial Duty						
65 ft-lb	220 RPM	10 3/4"	1 ½ in	Ingersoll Rand	1207MAX-D4	**5LAN6**
70 ft-lb	180 RPM	10"	13/16 in	Speedaire	21AA67	**21AA67**
	225 RPM	9 13/16"	¾ in	Chicago Pneumatic	CP7829H	**48FX86**
90 ft-lb	190 RPM	12"	¾ in	Chicago Pneumatic	CP7830HQ	**11C948**
Light Duty						
90 ft-lb	150 RPM	14"	—	Speedaire	48LZ98	**48LZ98**

Precision Pneumatic Torque Wrenches

HYTORC® The World's Most Trusted Industrial Bolting Systems

- Max. psi: 90

Deliver accurate torque with low vibration. Models feature lightweight high-strength aluminum alloy construction and safety mechanism. FRL unit required (sold separately).


No. 21HF01

Style	Max. Torque	Average CFM @ 15-sec. Run Time	CFM @ Full Load	Retainer Type	Mfr. Model	Item No.
Pistol Grip	250 ft.-lb.	9.80	30.0	Through Hole	J-A.25-SP	**21HF01**
	500 ft.-lb.	9.80	30.0	Through Hole	J-A.5-SP	**21HF02**
	1225 ft.-lb.	9.80	30.0	Through Hole	J-A1-SP	**21HF03**
	3025 ft.-lb.	9.80	30.0	Through Hole	J-A3-SP	**21HF04**
	5050 ft.-lb.	9.80	30.0	Through Hole	J-A5-SP	**21HF05**
	8000 ft.-lb.	9.80	30.0	Through Hole	J-A8	**21HF06**

Ingersoll Rand

Air Tool Combination Kit

Popular air tool for general maintenance, automotive repair, and metalworking.



Description	Item No.
7-Pc. Mechanic's Wrench/Ratchet Kit, Includes 107XPA Air Ratchet, 231C Impact Wrench, (5) Sockets (½, 9/16, ⅝, ¾, and ⅜ to ½" Adapter), & Case	**5LA54**

Pneumatic Nut Runners

Ingersoll Rand SPEEDAIRE

- Required psi: 90
- Min. hose size: ¼" (No. 45NW63 is ⅜")

Provide fast screw/nut rundown and removal. 90° angle heads allow access to tight locations.

Note: For more pneumatic nut runners, see Grainger.com®.


No. 1FYP7


No. 45NW63

Drive Size	Torque Range Soft Draw	Drive System	Free Speed	CFM @ Full Load	Air Inlet	Base to Top	Overall Length	Brand	Mfr. Model	Item No.
⅜"	15 to 110 in.-lb.	Reversible Cushion Clutch	600 rpm	16.0	¼" NPT	1 5/16"	13⅛"	Ingersoll Rand	5RLN2C6	**1FYP7**
	25 to 100 in.-lb.	Reversible Cushion Clutch	1400 rpm	27.0	¼" NPT	1 5/16"	13⅛"	Ingersoll Rand	7RLL2C6	**1FYP8**
	44 to 156 in.-lb.	Reversible Auto Shutoff	770 rpm	19.4	⅜" NPT	5⅞"	13⅛"	Speedaire	45NW63	**45NW63**
	55.2 to 100.8 in.-lb.	Auto Shut Off	850 rpm	27.0	¼" NPT	1⅞"	18⅜"	Ingersoll Rand	QA4ASLS015NP41S06	**436P31**
	88.8 in.-lb.	Auto Shut Off	625 rpm	27.0	¼" NPT	1⅞"	13½"	Ingersoll Rand	QA4AALS020NP25S06	**436P27**
½"	88.8 in.-lb.	Auto Shut Off	300 rpm	64.7	½" NPT	1⅞"	17⅞"	Ingersoll Rand	9RSQ83	**436P76**

SPEEDAIRE® Chicago Pneumatic

Air Drills

Ingersoll Rand

- Required psi: 90
- Air inlet: ¼" NPT

Note: For drill bits, see page 704.

Ingersoll Rand Drill Kit No. 1XFG8—Includes 22-pc. drill bit and driver set.

Speedaire® General-Duty Drill Kit No. 12V744— Includes chuck key, 7 drill bits, 17 driver bits, 3 slotted bits, 2 adaptors, and plastic case.



No. 10D234


No. 5KB25


No. 3JD41


No. 21AA79


No. 21AA77

Chuck Size	HP	Free Speed	Drill Chuck Type	Handle Material†	Variable Speed	Average cfm*	Min. Hose Size	Overall Length	Brand	Mfr. Model	Item No.
Light-Duty Kit											
Mini Pistol Grip											
¼"	—	1875 rpm	Keyed	C	Yes	4.05	⅜"	7.6"	Ingersoll Rand	7804KA	**1XFG8**
Light-Duty											
Mini, Non-Reversible, Pistol Grip											
⅜"	0.4	2000 rpm	Keyed	C	Yes	3.50	⅜"	8¼"	Speedaire	10D240	**10D240**
Mini Reversible											
¼"	0.25	2600 rpm	Keyed	C	No	3.37	⅜"	5½"	Speedaire	10D234	**10D234**
Mini Reversible Pistol Grip											
¼"	—	1875 rpm	Keyed	C	Yes	1.90	⅜"	7.6"	Ingersoll Rand	7804XPA	**12T590**
Reversible Pistol Grip											
⅜"	0.5	2000 rpm	Keyed	ARG	No	6.60	⅜"	7 13/64"	Speedaire	48MA04	**48MA04**
½"	0.5	500 rpm	Keyed	ARG	No	6.00	⅜"	9"	Speedaire	48MA03	**48MA03**
General-Duty											
Pistol Grip											
	0.5	2000 rpm	Keyed	A	Yes	4.00	⅜"	6¼"	Ingersoll Rand	7802A	**5LA56**
	0.5	2000 rpm	Keyless	A	Yes	4.00	⅜"	6⅞"	Ingersoll Rand	7802AKC	**5LA71**
⅜"	0.5	2600 rpm	Keyless	C	No	4.00	⅜"	7⅜"	Speedaire	21AA68	**21AA68**
	0.5	2600 rpm	Keyed	C	No	4.00	⅜"	7⅜"	Speedaire	21AA69	**21AA69**
	0.5	3800 rpm	Keyed	A	Yes	4.75	⅜"	7"	Ingersoll Rand	728JA1	**3Y520**
	0.5	500 rpm	Keyed	A	Yes	4.10	⅜"	7 51/64"	Chicago Pneumatic	CP785H	**11C950**
	0.5	500 rpm	Keyed	A	No	4.00	⅜"	7 3/32"	Ingersoll Rand	7803A	**20CK93**
½"	0.5	500 rpm	Keyless	A	No	4.00	⅜"	7 29/32"	Ingersoll Rand	7803AKC	**20CK94**
	0.5	950 rpm	Keyed	A	Yes	4.75	⅜"	8½"	Ingersoll Rand	728NA3	**3Y518**
General-Duty Kit											
Pistol Grip											
¼"	0.29	2000 rpm	Keyed	C	Yes	3.50	⅜"	8¼"	Speedaire	12V744	**12V744**
Reversible Pistol Grip											
7/16"	0.5	2600 rpm	Quick Change	C	Yes	6.00	⅜"	7¼"	Speedaire	45YY30	**45YY30**
Right-Angle Lever Throttle											
¼"-28	0.3	2700 rpm	Threaded	C	Yes	3.00	⅜"	8 13/64"	Speedaire	45YY28	**45YY28**
General-Duty											
Reversible Pistol Grip											
	0.5	1800 rpm	Keyed	C	No	4.00	⅜"	7⅝"	Speedaire	21AA70	**21AA70**
	0.5	1800 rpm	Keyless	C	No	4.00	⅜"	7⅝"	Speedaire	21AA71	**21AA71**
⅜"	0.5	1800 rpm	Keyless	ARG	No	4.00	⅜"	7 5/16"	Speedaire	21AA72	**21AA72**
	0.5	1800 rpm	Keyed	ARG	No	4.00	⅜"	7 5/16"	Speedaire	21AA73	**21AA73**
	0.5	2000 rpm	Keyless	A	Yes	4.00	⅜"	6⅞"	Ingersoll Rand	7802RAKC	**5KB24**
	0.5	2000 rpm	Keyed	A	Yes	4.00	⅜"	6⅛"	Ingersoll Rand	7802RA	**5KB23**
	0.5	400 rpm	Keyless	ARG	No	4.00	⅜"	8¾"	Speedaire	21AA74	**21AA74**
	0.5	500 rpm	Keyless	A	Yes	4.00	⅜"	7⅛"	Ingersoll Rand	7803RAKC	**5LA72**
½"	0.5	500 rpm	Keyed	A	Yes	4.00	⅜"	7 5/64"	Ingersoll Rand	7803RA	**5KB25**
	0.5	800 rpm	Keyless	A	No	4.00	⅜"	8¼"	Speedaire	21AA75	**21AA75**
	0.5	800 rpm	Keyless	C	No	4.00	⅜"	8⅝"	Speedaire	21AA76	**21AA76**
Right-Angle Lever Throttle											
⅜"	0.33	1800 rpm	Keyed	A	Yes	4.00	⅜"	8⅛"	Ingersoll Rand	7807R	**3JD41**
	0.5	1500 rpm	Keyed	A	No	4.00	⅜"	8 1/16"	Speedaire	21AA79	**21AA79**
Straight Lever Throttle											
¼"	0.5	2600 rpm	Keyless	A	Yes	4.00	⅜"	8¼"	Speedaire	21AA77	**21AA77**
⅜"	0.5	22,000 rpm	Keyed	A	Yes	4.00	⅜"	7 13/16"	Speedaire	21AA78	**21AA78**
Industrial-Duty											
Pistol Grip											
	0.25	2800 rpm	Keyed	A	Yes	3.00	¼"	6¼"	Ingersoll Rand	1AL1	**3YU91**
	0.33	3800 rpm	Keyed	A	Yes	3.00	¼"	6¼"	Ingersoll Rand	1P38ST4	**3YU90**
¼"	0.4	4500 rpm	Keyed	ARG	Yes	4.25	¼"	6¾"	Ingersoll Rand	5AJST4	**3Y543**
	0.5	2400 rpm	Keyed	A	Yes	4.70	⅜"	6 45/64"	Chicago Pneumatic	CP1014P24	**40P203**
	0.5	3300 rpm	Keyed	A	Yes	4.70	⅜"	6 45/64"	Chicago Pneumatic	CP1014P33	**40P204**
	0.5	4500 rpm	Keyed	A	Yes	5.30	⅜"	6 45/64"	Chicago Pneumatic	CP1014P45	**40P205**
	0.38	1000 rpm	Keyed	ARG	Yes	4.25	¼"	8⅛"	Ingersoll Rand	5ANST6	**3Y540**
	0.5	500 rpm	Keyed	A	Yes	4.70	⅜"	7 45/64"	Chicago Pneumatic	CP1014P05	**40P202**
⅜"	0.75	3200 rpm	Keyed	ARG	Yes	6.25	5/16"	7⅜"	Ingersoll Rand	7AKST6	**3Y513**
	1.0	2600 rpm	Keyed	A	Yes	7.40	⅜"	7 29/32"	Chicago Pneumatic	CP1117P26	**40P208**
	1.0	3200 rpm	Keyed	A	Yes	7.40	⅜"	7 29/32"	Chicago Pneumatic	CP1117P32	**40P209**
	1.0	6000 rpm	Keyed	A	Yes	7.40	⅜"	7 29/32"	Chicago Pneumatic	CP1117P60	**40P210**
	0.5	450 rpm	Keyed	A	Yes	6.00	⅜"	8⅝"	Speedaire	45YY14	**45YY14**
	0.75	600 rpm	Keyed	ARG	Yes	6.25	5/16"	8¾"	Ingersoll Rand	7AQST8	**3Y509**
½"	0.75	900 rpm	Keyed	ARG	Yes	6.25	⅜"	8¾"	Ingersoll Rand	7ANST8	**3Y510**
	1.0	500 rpm	Keyed	A	Yes	7.40	⅜"	8"	Chicago Pneumatic	CP1117P05	**40P206**
	1.0	900 rpm	Keyed	A	Yes	7.40	⅜"	8"	Chicago Pneumatic	CP1117P09	**40P207**
Reversible Pistol Grip											
	0.4	2000 rpm	Keyed	ARG	Yes	4.25	¼"	6¼"	Ingersoll Rand	5RALST6	**3Y535**
⅜"	0.5	2600 rpm	Keyed	A	Yes	6.00	⅜"	7¼"	Speedaire	45YY15	**45YY15**
	0.5	4200 rpm	Keyed	ARG	Yes	7.50	⅜"	7"	Chicago Pneumatic	CP789R-42	**11C953**
7/16"	0.5	2600 rpm	Quick Change	A	Yes	6.00	⅜"	7¼"	Speedaire	45YY29	**45YY29**
	0.4	500 rpm	Keyed	ARG	Yes	7.50	⅜"	8"	Chicago Pneumatic	CP789HR	**11C952**
½"	0.4	900 rpm	Keyed	ARG	Yes	4.25	¼"	8¼"	Ingersoll Rand	5RANST8	**3Y531**
	0.5	450 rpm	Keyed	A	Yes	6.00	⅜"	8⅝"	Speedaire	45YY16	**45YY16**
Right-Angle Lever Throttle											
¼"-28	0.3	2700 rpm	Threaded	A	Yes	3.00	⅜"	8 13/64"	Speedaire	45YY27	**45YY27**
⅜"	0.3	4000 rpm	Keyed	A	Yes	3.00	⅜"	7⅜"	Speedaire	45YY17	**45YY17**
½"	0.75	600 rpm	Keyed	A	Yes	6.50	¼"	11⅛"	Ingersoll Rand	7LN3A44	**3Y508**

** Avg. cfm is based on a 15-sec. run time. † A = Aluminum, ARG = Aluminum with Rubber Grip, C = Composite.*


No. 3Y470
No. 3Y475

Ingersoll Rand

Electric Screwdrivers

¼" reversing screwdrivers feature standard precision shut-off clutch. Operate on 115VAC and require control module. Nos. 3Y475 and 3JD53 have 2 clutch springs to cover torque range. No. 3Y477 has pistol-grip handle.

Max. Torque	Free Speed (rpm)	Handle Type	Control Module Req.	Tool Length	Mfr. Model	Item No.
Electric Electric Screwdrivers						
9 in.-lb.	500 to 650	Straight	Mfr. No. 3Y470	8⅞"	ES50T	**3Y475**
10 in.-lb.	500 to 700	Straight	Mfr. No. 3JD50	9¼"	EL1007B	**3JD53**
17 in.-lb.	1000	Pistol Grip	Direct Plug in	10"	ES60P	**3Y474**
16 in.-lb.	2000		Direct Plug in	10"	ES90P	**3Y472**
26 in.-lb.	700	Straight	Direct Plug in	10"	ES70P	**3Y473**
40 in.-lb.	400	Pistol Grip	None	10"	ES100P	**3Y477**
Control Modules						
Control Module For Use with No. 3Y475					ESCB50	**3Y470**
Control Module For Use with No. 3JD53					EC24N	**3JD50**

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Pneumatic Impact Screwdrivers

Ingersoll Rand SPEEDAIRE

- Required psi: 90
- Air inlet: ¼" NPT
- Min. hose size: ⅜"
- Use ¼" hex bits
- Integrated power regulator
- Reversible
- Lift bail included

Ergonomic screwdrivers feature extremely durable impact mechanism that delivers high-speed reactionless power capable of handling high cycle rate assembly applications.



No. 4UJH3



No. 4UJH6

Torque Range Soft Draw	Free Speed	Throttle Type	Average cfm*	CFM @ Full Load	Overall Length	Brand	Mfr. Model	Item No.
Inline								
44 to 124 in.-lb.	13,000 rpm	Lever	5.00	19.0	9¼"	Ingersoll Rand	QiS14Q4	**4UJH3**
178 to 239 in.-lb.	12,000 rpm	Lever	7.00	26.0	9½"	Ingersoll Rand	QiS30Q4	**4UJH4**
Pistol								
10 to 85 ft.-lb.	8800 rpm	Trigger	5.00	20.0	6"	Speedaire	45NW64	**45NW64**
44 to 124 in.-lb.	12,400 rpm	Trigger	6.00	22.0	6½"	Ingersoll Rand	QiP14Q4	**4UJH5**
55 ft.-lb.	14,500 rpm	Trigger	3.40	18.2	7.2"	Ingersoll Rand	2101XPA-QC	**12T592**
74 to 148 in.-lb.	11,300 rpm	Trigger	8.00	31.0	6 15/32"	Ingersoll Rand	QIP20Q4	**48K599**
178 to 265 in.-lb.	9000 rpm	Trigger	8.00	32.0	6⅞"	Ingersoll Rand	QiP30Q4	**4UJH6**

** Avg. cfm is based on a 15-sec. run time.*

Pneumatic Screwdrivers

SPEEDAIRE Ingersoll Rand Chicago Pneumatic



No. 3YU87



No. 12V743 · No. 11C895 · No. 11C894 · No. 3JD32 · No. 45NW62

- Max. psi: 90
- Reversible
- ¼" quick-change bit holder included

Torque Range Soft Draw	Free Speed	Throttle Type	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Air Inlet	Overall Length	Brand	Mfr. Model	Item No.
Adjustable Clutch									
Inline									
30 to 70 in.-lb.	1800 rpm	Lever	4.00	16.0	¼" NPT	9½"	Speedaire	21AA81	**21AA81**
30 to 95 in.-lb.	800 rpm	Lever	4.00	16.0	¼" NPT	10¼"	Speedaire	21AA80	**21AA80**
Pistol									
2.7 to 30.1 in.-lb.	1000 rpm	Push to Start	3.45	13.0	⅛" NPT	8.5"	Ingersoll Rand	1RTNS1	**24K078**
Adjustable Cushion Clutch									
Inline									
1.5 to 30.0 in.-lb.	1000 rpm	Push to Start	5.00	13.0	⅛" NPT	8¾"	Ingersoll Rand	1RPNC1	**3YU87**
	1000 rpm	Lever	5.00	13.0	⅛" NPT	9¼"	Ingersoll Rand	1RLNC1	**3YU88**
2.5 to 20.0 in.-lb.	1650 rpm	Push to Start	5.00	13.0	⅛" NPT	8¾"	Ingersoll Rand	1RPMC1	**3YU86**
9.6 to 25.2 in.-lb.	2000 rpm	Lever	4.00	16.0	¼" NPT	8.9"	Chicago Pneumatic	CP783	**42NX41**
13 to 35 in.-lb.	2100 rpm	Lever	4.00	16.0	¼" NPT	10"	Ingersoll Rand	5RLLC1	**4Z262**
13 to 75 in.-lb.	1000 rpm	Lever	4.00	16.0	¼" NPT	10¾"	Ingersoll Rand	5RLNC1	**3Y529**
20 to 40 in.-lb.	1800 rpm	Lever	3.00	12.0	¼" NPT	9¼"	Speedaire	48LZ89	**48LZ89**
20 to 110 in.-lb.	1200 rpm	Lever	10.00	27.0	¼" NPT	12"	Ingersoll Rand	7RLMC1	**3Y506**
Pistol									
1.5 to 30.0 in.-lb.	1000 rpm	Trigger, Push to Start	5.00	13.0	⅛" NPT	8½"	Ingersoll Rand	1RANC1	**3YU89**
13 to 35 in.-lb.	2000 rpm	Trigger	4.00	17.0	¼" NPT	8¾"	Ingersoll Rand	5RALC1	**3Y538**
13 to 70 in.-lb.	900 rpm	Trigger	4.00	17.0	¼" NPT	9½"	Ingersoll Rand	5RANC1	**4Z261**
20 to 110 in.-lb.	1000 rpm	Trigger	10.00	27.0	¼" NPT	10½"	Ingersoll Rand	7RAMC1	**3Y507**
Direct Drive Clutch									
Pistol									
45 to 65 in.-lb.	2200 rpm	Trigger	2.50	29.7	¼" NPT	6.3"	Chicago Pneumatic	CP2755	**11C895**
79.2 in.-lb.	900 rpm	Trigger	2.50	29.7	¼" NPT	7"	Chicago Pneumatic	CP2765	**11C896**
Positive Action Clutch									
Pistol									
20 to 115 in.-lb.	800 rpm	Trigger	4.00	29.0	¼" NPT	7⅜"	Speedaire	45NW60	**45NW60**
	1800 rpm	Trigger	4.00	29.0	¼" NPT	7 13/32"	Speedaire	12V743	**12V743**
47.1 to 115 in.-lb.	1800 rpm	Trigger	4.00	29.0	¼" NPT	7¼"	Ingersoll Rand	371	**3JD32**
88.8 in.-lb.	2100 rpm	Trigger	2.50	29.7	¼" NPT	6.5"	Chicago Pneumatic	CP2780	**11C897**
Positive Jaw Clutch									
Pistol									
19 to 35 in.-lb.	2000 rpm	Trigger	4.00	17.0	¼" NPT	7¼"	Ingersoll Rand	5RALP1	**3Y536**
39 to 70 in.-lb.	900 rpm	Trigger	4.00	17.0	¼" NPT	8"	Ingersoll Rand	5RANP1	**3Y532**
Precision Shut-Off Clutch									
Inline									
2.7 to 30.1 in.-lb.	1000 rpm	Push to Start	5.00	13.0	⅛" NPT	8¾"	Ingersoll Rand	1RPNS1	**3YU84**
2.7 to 45.1 in.-lb.	500 rpm	Push to Start	5.00	13.0	⅛" NPT	8¾"	Ingersoll Rand	1RPQS1	**3YU85**
3.5 to 13 in.-lb.	1100 rpm	Push to Start	2.10	8.5	⅛" BSP	7.7"	Chicago Pneumatic	CP2003	**11Z508**
7 to 58 in.-lb.	1000 rpm	Push To Start	5.25	30.1	¼" NPT	9.1"	Chicago Pneumatic	CP2621	**11C894**
Pistol									
8.9 to 66 in.-lb.	1000 rpm	Trigger	5.25	21.0	¼" NPT	9.3"	Chicago Pneumatic	CP2611	**11C893**
11 to 65 in.-lb.	1000 rpm	Trigger	4.80	19.4	¼" NPT	8 21/32"	Speedaire	45NW61	**45NW61**
	1000 rpm	Trigger and Push to Start	4.80	19.4	¼" NPT	8 21/32"	Speedaire	45NW62	**45NW62**

† Full load cfm is based on a 1-min. run time.

Adjustable Cushion Clutch—Controls torque output to the bit. Straight handle units come with suspension bails.

Direct Drive Clutch—General duty for large and medium screws.

Positive Action Clutch—Standard-duty, for use with soft-draw applications. Variable-speed throttle. Through-handle exhaust.

Positive Jaw Clutch—Clutch engages when the operator starts the motor and presses the tool toward the fastener. Designed for applications where driving torque may exceed final seating torque.

Precision Shut-Off Clutch—Designed for precision torque applications. Units come with suspension bails.

POP® Avdel® SPEEDAIRE

Pneumatic Thread Inserters

- Air Inlet: ¼"
- Min. hose size: ⅜"

Spin-pull-to-pressure technology allows insert setting for varying application thicknesses without the need for adjustment. Push-to-thread on mandrel allows automatic reversing and unthreading when insert is set. Pop Avdel® models do not include mandrels, nosepieces, or adapters; see Grainger.com®.



No. 52VF50 · No. 3CRH8

Stroke Length	Pulling Force	Blind Rivet Dia. (in.)	Max. Pressure	Construc.	L	Tool Wt.	Brand	Mfr. Model	Item No.
1 in	3,200 lbf	—	90 psi	Aluminum	10 in	4.9 lb	Pop Avdel	74202-00003	**52VF50**
13/32 in	6,555 lbf	¼-20 to ⅜-16 and M6 to M10 Stainless Steel, Steel and Aluminum and ½-13 and M12 Steel and Aluminum	87 psi	Aluminum	12 2/5 in	6.11 lb	Pop Avdel	PNT1000L-PC-T	**2NJP5**
¼ in	6,000 lbf	—	95 psi	Composite	11 3/16 in	5.1 lb	Speedaire	3CRH8	**3CRH8**



SPEEDAIRE · Chicago Pneumatic · POP Avdel · Ingersoll Rand

Pneumatic and Battery-Operated Riveters

Set uniform rivets in any position.

General-Duty Pneumatic—2-pc. jaw system increases jaw traction. Internal vacuum for No. 45RM38 holds mandrel in position for any-angle tool operation.

Industrial-Duty Pneumatic—No. 4WL12 includes a spare set of jaws, jaw pusher, and spare jaw pusher spring. Nos. 3CRH6 and 3CRH7 have internal vacuum, holding mandrel in place for any-angle tool operation.

Industrial-Duty Pneumatic with Mandrel Collection System—Quick-disconnect allows components to be serviced without tools. Swivel air fitting reduces air consumption with On/Off switch.

- Min. hose size: 3/8"

Pulling Force	Blind Rivet Dia.	Stroke Length	Air Inlet	Max. Pressure	Construc.	Length	Tool Wt.	Brand	Mfr. Model	Item No.
General-Duty Pneumatic										
1940 lb.	1/8", 5/32", 3/32", 3/16"	35/64"	1/4" NPT	90 psi	Aluminum	9 1/8"	3.30 lb.	Speedaire	3CRH4	**3CRH4**
1983 lb.	1/8", 5/32", 3/16"	5/8"	1/4" NPT	100 psi	Aluminum	8 27/32"	3.2 lb.	Speedaire	3CRH3	**3CRH3**
2100 lb.	3/32", 1/8", 5/32", 3/16"	35/64"	1/4" NPT	95 psi	Aluminum/Composite	11 1/2"	3.26 lb.	Speedaire	45RM38	**45RM38**
2200 lb.	1/8", 5/32", 3/32", 3/16"	—	1/4" NPT	90 psi	Composite	8 29/32"	3.30 lb.	Chicago Pneumatic	CP9882	**33E885**
Industrial-Duty Battery Operated										
2000 lb.	3/32", 1/8", 5/32", 3/16"	63/64"	—	—	—	12 7/8"	3.8 lb.	Pop Avdel	PB2500-NA	**40G468**
Pneumatic										
1000 lb.	1/8", 5/32", 3/32"	5/8"	1/8" NPT	85 psi	Cast Aluminum	6 9/16"	3.6 lb.	Pop Avdel	PRG510A-PLUS	**4WL12**
3000 lb.	1/8", 5/32", 3/16", 1/4"	1 1/16"	1/4" NPT	90 psi	Aluminum	7 1/2"	4.85 lb.	Pop Avdel	PRG540	**6ZC22**
3190 lb.	1/8", 5/32", 3/16"	1 29/32"	1/4" NPT	90 psi	Aluminum	6"	2.20 lb.	Ingersoll Rand	AVC10A1	**24K080**
4000 lb.	3/16", 7/32", 1/4"	1 1/64"	1/4" NPT	95 psi	Aluminum	12"	4.27 lb.	Speedaire	3CRH6	**3CRH6**
5000 lb.	3/16", 7/32", 1/4", 5/16"	1 1/64"	1/4" NPT	95 psi	Aluminum	12"	4.8 lb.	Speedaire	3CRH7	**3CRH7**
Pneumatic Button Handle										
3190 lb.	1/8", 5/32", 3/16"	1 29/32"	1/4" NPT	90 psi	Aluminum	6 51/64"	2.10 lb.	Ingersoll Rand	AVC10C1	**24K081**
Pneumatic with Mandrel Collection										
1900 lb.	1/8", 5/32", 3/16"	—	1/4" NPT	90 psi	Composite	11 51/64"	3.20 lb.	Chicago Pneumatic	CP9883	**11D001**
2320 lb.	1/8", 5/32", 3/32"	1"	1/4" NPT	101.5 psi	Steel	9 61/64"	2.58 lb.	Pop Avdel	76001-00003	**443Z74**
3045 lb.	1/8", 5/32", 3/16"	1"	1/4" NPT	101.5 psi	Steel	10 51/64"	2.78 lb.	Pop Avdel	76002-00003	**443Z75**
3530 lb.	3/8", 5/16"	6"	1/4" NPT	90 psi	Aluminum	11 3/8"	5.1 lb.	Ingersoll Rand	AVC26A1	**48K601**
	3/16", 1/4"	—	1/4" NPT	90 psi	Composite	12 13/64"	4.20 lb.	Chicago Pneumatic	CP9884	**11D002**
4206 lb.	3/16", 1/4"	1"	1/4" NPT	101.5 psi	Steel	13 33/64"	4.71 lb.	Pop Avdel	76003-00003	**443Z76**



SPEEDAIRE · Ingersoll Rand · Chicago Pneumatic · DYNABRADE

Pneumatic Grinders

- Required psi: 90

See page 2385 for Grinding and Cutting Wheels.

INDUSTRIAL-DUTY, VERTICAL, TYPE 27/28 WHEEL

Feature steel guard and adjustable side handles. Built-in mist lubricator automatically oils motor. Use either a Type 27 or 28 threaded wheel or plain hole depressed wheel.

Wheel Dia.	Free Speed	Exhaust	Variable Speed	CFM @ Full Load†	cfm Average*	HP	Handle Material	Spindle Size	Throttle	Air Inlet	Overall Length	Brand	Mfr. Model	Item No.
Light Duty Kit														
3"	16,000 rpm	Handle	Yes	20.0	3.50	0.40 HP	Composite	1/4"-20	Trigger	1/4" NPT	5 1/16"	Speedaire	12V733	**12V733**
Light Duty, Type 27														
4"	11,000 rpm	Front	No	18.0	4.50	0.50 HP	Aluminum	3/8"-24	Lever	1/4" NPT	9 3/4"	Speedaire	48MA07	**48MA07**
General Duty Mini Kit														
2", 3"	15,000 rpm	Through Handle	Yes	19.4	2.07	0.20 HP	Composite	1/4"-20	Trigger	1/4" NPT	5"	Ingersoll Rand	3103KA	**1XFG5**
General Duty														
2"	22,000 rpm	Side	Yes	17.0	4.00	0.20 HP	Aluminum with Rubber Grip	3/8"-24	Lever	1/4" NPT	5 1/2"	Chicago Pneumatic	CP7500D	**11C934**
4 1/2"	12,000 rpm	Front	No	29.7	7.50	0.80 HP	Aluminum	5/8"-11	Lever	1/4" NPT	9 1/3"	Chicago Pneumatic	CP9122BR	**11C985**
5"	12,000 rpm	Front	No	27.6	13.78	0.80 HP	Aluminum	5/8"-11	Lever	1/4" NPT	9 3/5"	Chicago Pneumatic	CP9121BR	**11C984**
4"	11,000 rpm	Front	No	25.0	6.00	0.70 HP	Aluminum	3/8"-24	Lever	1/4" NPT	9"	Speedaire	21AA89	**21AA89**
	12,000 rpm	Front	Yes	23.3	11.60	0.80 HP	Aluminum	3/8"-24	Lever	1/4" NPT	9.3"	Chicago Pneumatic	CP9120CRN	**20HN60**
4 1/2"	11,000 rpm	Front	No	25.0	6.00	0.70 HP	Aluminum	3/8"-24	Lever	1/4" NPT	9"	Speedaire	21AA90	**21AA90**
7"	8500 rpm	Front	No	25.0	6.00	1.00 HP	Aluminum	5/8"-11	Lever	3/8" NPT	13 3/4"	Speedaire	21AA91	**21AA91**
Industrial Duty														
2 1/2"	12,000 rpm	Rear	No	12.0	3.00	0.40 HP	Aluminum	3/8"	Lever	1/4" NPT	6"	Speedaire	45YY18	**45YY18**
4"	10,000 rpm	Rear	No	16.0	4.00	0.80 HP	Composite	3/8"-24	Lever	1/4" NPT	9 3/8"	Speedaire	21AA83	**21AA83**
	12,000 rpm	Rear	No	36.0	18.00	1.10 HP	Aluminum with Rubber Grip	3/8"-24	Lever	3/8" NPT	9 13/64"	Chicago Pneumatic	CP3450-12AC4	**11C899**
	12,000 rpm	Rear	Yes	40.0	10.00	1.10 HP	Composite	3/8"-24	Safety Lever	1/4" NPT	10 39/64"	Chicago Pneumatic	CP7540CN	**48FX70**
	13,000 rpm	Front	Yes	24.0	6.00	0.70 HP	Aluminum	3/8"-24	Lever	1/4" NPT	9"	Chicago Pneumatic	CP854	**11C965**
5"	12,000 rpm	Rear	No	36.0	18.00	1.10 HP	Aluminum with Rubber Grip	5/8"-11	Lever	3/8" NPT	9 13/64"	Chicago Pneumatic	CP3450-12AB5	**11C898**
	12,000 rpm	Rear	Yes	40.0	10.00	1.10 HP	Composite	5/8"-11	Safety Lever	1/4" NPT	10 39/64"	Chicago Pneumatic	CP7550B	**48FX73**
Industrial Duty, Type 27														
4 1/4"	12,000 rpm	Rear	No	40.0	10.00	1.00 HP	Glass Reinforced Nylon	3/8"	Lever	3/8" NPT	9 19/64"	Ingersoll Rand	M2A120RP64	**48UT77**
4 1/2"	9000 rpm	Rear	No	40.0	—	1.00 HP	Glass Reinforced Nylon	5/8"-11	Safety Lever	3/8" NPT	9 39/64"	Ingersoll Rand	M2A120RP1045	**45JW70**
	12,000 rpm	Rear	No	41.0	10.00	0.88 HP	Composite	5/8"-11	Lever	1/4" NPT	9 3/8"	Ingersoll Rand	3445MAX	**5LAN8**
	12,000 rpm	Rear	Yes	68.0	17.00	2.30 HP	Composite	5/8"-11	Lever	3/8" NPT	9 5/16"	Chicago Pneumatic	CP3650-120AB45	**20RH03**
	12,000 rpm	Rotational	No	43.0	10.75	1.30 HP	Aluminum with Rubber Grip	5/8"-11	Lever	3/8" NPT	10"	Dynabrade	52632	**13F657**
5"	12,000 rpm	Rear	No	41.0	10.00	0.88 HP	Composite	5/8"-11	Lever	1/4" NPT	9 5/8"	Ingersoll Rand	345MAX	**5LAN9**
	12,000 rpm	Rear	Yes	68.0	17.00	2.30 HP	Composite	5/8"-11	Lever	3/8" NPT	9 5/16"	Chicago Pneumatic	CP3650-120AB5	**20RH04**
	12,000 rpm	Rotational	No	43.0	10.75	1.30 HP	Aluminum with Rubber Grip	5/8"-11	Lever	3/8" NPT	10"	Dynabrade	52633	**13F658**
Industrial Duty, Extended Angle, Type 27														
4"	13,500 rpm	Rear	No	40.0	10.00	1.00 HP	Glass Reinforced Nylon	3/8"	Lever	3/8" NPT	12 1/2"	Ingersoll Rand	M2E135RP64	**48UT78**
	13,500 rpm	Rear	Yes	74.0	53.00	2.30 HP	Composite	3/8"-24	Lever	3/8" NPT	9.37"	Chicago Pneumatic	CP3650-135AC4FK	**42NW94**
4 1/2"	12,000 rpm	Rear	No	40.0	—	1.00 HP	Glass Reinforced Nylon	5/8"-11	Safety Lever	3/8" NPT	12 1/16"	Ingersoll Rand	M2L120RP1045	**45JW81**
7"	6000 rpm	Side	No	39.0	9.80	1.50 HP	Metal	5/8"-11	Lever	3/8" NPT	17 9/16"	Ingersoll Rand	77A60P107	**3Y516**
	7700 rpm	Rear	Yes	69.0	17.50	2.80 HP	Composite	5/8"-11	Trigger	1/2" NPT	13 13/32"	Chicago Pneumatic	CP3850-77AB7V	**20RH05**
Industrial Duty, Vertical, Type 27/28 Wheel														
7"	6000 rpm	Side	No	61.0	15.30	2.10 HP	Metal	5/8"-11	Lever	1/2" NPT	6 3/32"	Ingersoll Rand	88V60P107	**3Y501**
9"	6000 rpm	Side	No	84.0	21.00	3.00 HP	Metal	5/8"-11	Lever	1/2" NPT	6 7/8"	Ingersoll Rand	99V60P109	**3Y499**
	6500 rpm	Side	Yes	93.0	27.00	4.00 HP	Composite	5/8"-11	Lever	1/2" NPT	11"	Chicago Pneumatic	CP3349-SALAVEL	**42NX77**
Industrial Duty, Vertical Type 6/11 Wheel														
6"	6000 rpm	Side	No	84.0	21.00	3.00 HP	Metal	5/8"-11	Lever	1/2" NPT	6 7/8"	Ingersoll Rand	99V60S106	**3Y498**
	6000 rpm	Side	Yes	91.0	25.00	4.00 HP	Composite	5/8"-11	Lever	1/2" NPT	11"	Chicago Pneumatic	CP3349-SALAVET	**42NX76**

** Avg. cfm is based on a 15-sec. run time. † Avg. cfm is based on a 1-min. run time.*



No. 10D231



No. 23Z008


No. 11C970


No. 25H894

SPEEDAIRE · Ingersoll Rand · DYNABRADE · Chicago Pneumatic

Pneumatic Right-Angle Die Grinders

- Lever throttle

Note: All units can use either carbide burrs or mounted grinding stones, sold separately on pages 2298, 2299. Make sure that the carbide burr or grinding stone selected has the proper rating and spindle size. Not to be used with cutoff wheels.

LIGHT-DUTY KIT

No. 12V740 includes 2 collet wrenches, ¼" collet, ⅛" collet, 5 grinding stones with ¼" shank, and 5 grinding stones with ⅛" shank.

GENERAL-DUTY KITS

Include wrenches, a 2" backing pad, and 2 each of: 2" coarse-surface prep pads, 2" medium-surface prep pads, 2" fine-surface prep pads, 50-grit sanding discs, 36-grit sanding discs, and 24-grit sanding discs. No. 23Z014 includes tool, 2 wrenches, 6mm collet, 10 abrasive stones, plastic case, and manuals.

INDUSTRIAL-DUTY

Angle head gears can be greased through a built-in grease fitting.

Free Speed	HP	Collet	Exhaust	Variable Speed	cfm Average*	cfm @ Full Load†	Handle Material**	Overall Length	Right Angle Length	Brand	Mfr. Model	Item No.
Light-Duty Kit												
20,000 rpm	0.39 HP	⅛" and ¼"	Front	No	3.50	15.0	A	5⅛"	2 13/16"	Speedaire	12V740	**12V740**
Light Duty Mini												
15,000 rpm	0.20 HP	¼"	Rear	No	1.68	6.7	A	4 15/16"	2 5/16"	Speedaire	10D231	**10D231**
17,000 rpm	0.20 HP	¼"	Rear	No	1.68	7.7	A	4 15/16"	2 15/16"	Speedaire	10D230	**10D230**
Light-Duty												
18,000 rpm	0.20 HP	⅛" and ¼"	Front	Yes	3.50	14.0	P	5"	2⅞"	Speedaire	48LZ92	**48LZ92**
20,000 rpm	0.39 HP	¼"	Front	No	3.50	15.0	A	5⅛"	2 13/16"	Speedaire	12V739	**12V739**
General-Duty Kits												
21,000 rpm	0.25 HP	¼"	Front	No	6.00	24.0	A	5¼"	2 5/32"	Ingersoll Rand	301BK	**23Z014**
22,500 rpm	0.3 HP	¼"	Rear	Yes	5.50	22.0	A	4⅞"	3"	Chicago Pneumatic	CP875K	**11C971**
General-Duty												
17,000 rpm	0.2 HP	¼"	Rear	Yes	8.00	16.0	ARG	4 23/32"	—	Chicago Pneumatic	CP9107	**11C980**
18,000 rpm	0.5 HP	¼"	Rear	Yes	5.75	23.0	ACC	6 11/16"	2⅞"	Speedaire	45NW65	**45NW65**
	0.5 HP	¼"	Rear	Yes	5.75	23.0	ACC	7 3/32"	3¼"	Speedaire	45NW66	**45NW66**
20,000 rpm	0.33 HP	¼"	Rear	No	6.00	23.0	C	7"	2 3/32"	Ingersoll Rand	302B	**23Z009**
	0.35 HP	¼"	Rear	Yes	4.00	16.0	ARG	6½"	3"	Speedaire	21AA82	**21AA82**
21,000 rpm	0.25 HP	¼"	Front	No	6.00	24.0	A	5¼"	2 5/32"	Ingersoll Rand	301B	**23Z008**
22,500 rpm	0.3 HP	¼"	Rear	Yes	5.50	22.0	A	4⅞"	3"	Chicago Pneumatic	CP875	**11C970**
23,000 rpm	0.32 HP	¼"	Rear	Yes	2.00	8.7	ARG	8"	3"	Chicago Pneumatic	CP9108Q-B	**11C981**
	0.32 HP	¼"	Rear	Yes	2.00	8.7	ARG	6-½"	3"	Chicago Pneumatic	CP9106Q-B	**11C979**
Industrial-Duty												
3200 rpm	0.4 HP	—	Rear	No	6.25	25.0	CRG	7 23/32"	3"	Dynabrade	49425	**25H856**
12,000 rpm	0.4 HP	¼"	Rear	Yes	2.40	10.0	C	7⅞"	2 13/16"	Speedaire	12V741	**12V741**
	0.4 HP	¼"	Rear	No	4.80	19.0	C	6"	3"	Ingersoll Rand	G1A120RG4	**1TDH7**
	0.4 HP	¼"	Rear	No	8.00	32.0	C	6 23/32"	2⅝"	Ingersoll Rand	312AC4A	**4TMA5**
	0.5 HP	¼"	Rear	No	8.50	17.0	C	8½"	3"	Chicago Pneumatic	CP3019-12AC	**45TX47**
	0.7 HP	¼"	Rear	No	9.50	38.0	C	7⅞"	2 29/32"	Dynabrade	54343	**13F680**
	1.0 HP	¼" and 6mm	Rear	No	4.25	40.0	GRN	8 61/64"	3 9/32"	Ingersoll Rand	M2A120RG4	**45JW88**
15,000 rpm	0.20 HP	—	Rear	No	1.83	3.7	A	4 15/16"	—	Speedaire	10D232	**10D232**
	0.4 HP	¼"	Rear	No	6.25	25.0	C	6½"	2¾"	Dynabrade	48316	**25H844**
18,000 rpm	0.5 HP	¼"	Front	No	7.00	28.0	C	6"	—	Dynabrade	52211	**25H896**
	0.54 HP	¼"	Rear	Yes	5.25	21.0	ACC	6⅞"	4 7/16"	Chicago Pneumatic	CP3030-418R	**22P506**
	0.7 HP	¼"	Rear	No	10.25	41.0	C	7⅞"	2 29/32"	Dynabrade	54359	**13F681**
	0.7 HP	¼"	Rear	No	10.25	41.0	C	11¼"	2 29/32"	Dynabrade	54363	**13F682**
	1.0 HP	¼" and 6mm	Rear	No	6.25	40.0	GRN	9 19/64"	3 9/32"	Ingersoll Rand	M2A180RG4	**45JW73**
20,000 rpm	0.25 HP	¼"	Rear	No	3.50	15.0	ARG	5¼"	3"	Speedaire	12V738	**12V738**
	0.4 HP	¼"	Rear	Yes	2.40	10.0	C	7⅞"	2 13/16"	Speedaire	12V742	**12V742**
	0.4 HP	¼"	Rear	No	3.00	12.0	A	6"	3"	Speedaire	45YY31	**45YY31**
	0.4 HP	¼"	Rear	No	6.00	25.0	C	7"	2⅝"	Ingersoll Rand	5102MAX	**23Z012**
	0.4 HP	¼"	Rear	No	6.25	25.0	CRG	8"	2¾"	Dynabrade	46002	**25H834**
	0.4 HP	¼"	Rear	No	6.30	25.0	C	6"	3"	Ingersoll Rand	G1A200RG4	**1TDH1**
	0.4 HP	¼" and 6mm	Rear	No	8.00	32.0	C	6 23/32"	2⅝"	Ingersoll Rand	320AC4A	**4TMA6**
	0.5 HP	¼"	Front	No	7.00	28.0	C	6"	4 39/64"	Dynabrade	52212	**13F670**
	0.54 HP	¼"	Rear	Yes	5.70	23.0	ACC	6 13/16"	4 7/16"	Chicago Pneumatic	CP3030-420R	**22P507**
	0.7 HP	¼"	Rear	Yes	7.50	30.0	ACC	6 13/16"	4 7/16"	Chicago Pneumatic	CP3030-520R	**22P490**
	0.7 HP	¼"	Front	No	9.00	36.0	C	5⅛"	5 7/64"	Dynabrade	52290	**13F673**
24,000 rpm	0.54 HP	¼"	Rear	Yes	5.80	23.3	ACC	6 13/16"	4 7/16"	Chicago Pneumatic	CP3030-424R	**22P489**
25,000 rpm	0.4 HP	¼"	Rear	Yes	4.20	17.0	ACC	6⅛"	2½"	Chicago Pneumatic	CP3030-325R	**22P505**
	0.4 HP	¼"	Front	No	5.00	20.0	C	6"	—	Dynabrade	52204	**25H894**
	0.4 HP	¼"	Rear	No	5.75	23.0	CRG	9"	—	Dynabrade	48205	**25H843**
30,000 rpm	0.4 HP	¼"	Rear	Yes	4.75	19.0	ACC	6⅛"	2½"	Chicago Pneumatic	CP3030-330R	**22P488**

** Avg. cfm is based on a 15-sec. run time. † Avg. cfm is based on a 1-min. run time. **A = Aluminum, ACC = Aluminum with Composite Cover, ARG = Aluminum with Rubber Grip, C = Composite, GRN = Glass Reinforced Nylon, P = Plastic, CRG = Composite with Rubber Grip.*



No. 10D235



No. 23Z011


No. 13F675


No. 11C966


No. 1TDG2

SPEEDAIRE · Ingersoll Rand · Chicago Pneumatic · DYNABRADE

Pneumatic Straight Die Grinders

- Required psi: 90
- Air inlet: ¼" NPT
- Min. hose size: ⅜"
- Lever throttle

Not to be used with cutoff wheels or grinding discs. All units can use either carbide burrs or mounted grinding stones, sold separately on pages 2298, 2299.

KIT NO. 48MA01

Includes Die Grinder No. 48LZ99, plus five ¼" and five ⅛" grinding stones, collet wrenches, and durable plastic case.

KIT NO. 1FYV2

Includes twenty 2" sanding discs, fifteen 3" sanding discs, 5 burs, 10 grinding stones, and molded carrying case.

Free Speed	HP	Collet	Exhaust	Variable Speed	CFM @ Full Load†	Average CFM @ 15-sec. Run Time	Handle Material**	Overall Length	Brand	Mfr. Model	Item No.
Light Duty Kit											
22,000 rpm	0.5	¼"	Rear	Yes	22.0	6.00	A	6¾"	Speedaire	48MA01	**48MA01**
Light Duty											
22,000 rpm	0.5	¼"	Rear	Yes	22.0	6.00	A	6¾"	Speedaire	48LZ99	**48LZ99**
25,000 rpm	0.2	⅛" and ¼"	Front	Yes	14.0	3.50	P	4²⁹⁄₃₂"	Speedaire	48LZ93	**48LZ93**
Light Duty Mini											
25,000 rpm	0.2	¼"	Rear	No	7.3	1.83	A	4¹⁵⁄₁₆"	Speedaire	10D235	**10D235**
General Duty											
22,000 rpm	0.5	¼"	Rear	Yes	16.0	4.00	C	6¹¹⁄₁₆"	Speedaire	21AA86	**21AA86**
	0.5	¼"	Rear	Yes	23.5	5.80	ACC	6¹¹⁄₁₆"	Speedaire	45NW67	**45NW67**
	0.5	¼"	Rear	Yes	16.0	4.00	A	6¾"	Speedaire	21AA88	**21AA88**
	0.5	¼"	Rear	Yes	16.0	4.00	ARG	7⅜"	Speedaire	21AA87	**21AA87**
25,000 rpm	0.33	¼"	Rear	No	28.0	7.00	C	6²⁷⁄₃₂"	Ingersoll Rand	308B	**23Z011**
27,000 rpm	0.6	¼"	Rear	Yes	26.0	10.00	—	6³⁹⁄₆₄"	Chicago Pneumatic	CP872	**401J31**
28,000 rpm	0.25	¼"	Front	No	24.0	6.00	A	5³⁄₁₆"	Ingersoll Rand	307B	**23Z010**
	0.32	¼"	Rear	Yes	8.6	4.30	ARG	6¹³⁄₃₂"	Chicago Pneumatic	CP9105Q-B	**11C978**
30,000 rpm	0.3	¼"	Front	Yes	24.0	12.00	A	4¾"	Chicago Pneumatic	CP876	**11C972**
General-Duty Kits											
28,000 rpm	0.25	¼"	Front	No	24.0	6.00	A	—	Ingersoll Rand	307BK	**23Z015**
General Duty, Extended											
22,000 rpm	0.5	¼"	Rear	Yes	16.0	4.00	A	13"	Speedaire	21AA85	**21AA85**
27,000 rpm	0.20	¼"	Rear	Yes	8.7	4.00	ARG	10¹³⁄₆₄"	Chicago Pneumatic	CP9110Q-B	**11C982**
Industrial Duty											
3500 rpm	0.5	¼"	Rear	No	16.0	4.00	A	8³⁹⁄₆₄"	Speedaire	45YY19	**45YY19**
12,000 rpm	1.0	¼"	Rear	No	38.0	9.50	C	10"	Dynabrade	52666	**25H926**
15,000 rpm	0.40	¼"	Rear	Yes	21.2	5.30	ACC	7²³⁄₃₂"	Chicago Pneumatic	CP3000-415R	**22P499**
	0.7	¼"	Rear	Yes	25.0	6.25	ACC	7⅜"	Chicago Pneumatic	CP3000-515R	**22P503**
	1.0	¼"	Rear	No	39.0	9.75	C	10"	Dynabrade	52667	**13F674**
	1.33	¼"	Side	No	40.0	10.00	M	15½"	Ingersoll Rand	61H150G4	**3Y525**
18,000 rpm	0.40	¼"	Rear	Yes	21.2	5.30	ACC	7²³⁄₃₂"	Chicago Pneumatic	CP3000-418R	**22P501**
	0.5	¼"	Front	No	16.0	4.00	A	7"	Speedaire	45YY20	**45YY20**
	0.5	¼"	Rear	No	16.0	4.00	A	7"	Speedaire	45YY21	**45YY21**
	0.5	¼"	Front	No	24.0	6.00	C	7"	Dynabrade	51301	**25H868**
	0.7	¼"	Front	No	33.0	8.00	C	6"	Dynabrade	52257	**25H902**
	0.7	¼"	Rear	No	18.0	3.40	ARG	7¹⁄₁₆"	Speedaire	21AA84	**21AA84**
	0.7	¼"	Rear	Yes	28.0	7.00	ACC	7⅜"	Chicago Pneumatic	CP3000-518R	**22P504**
	1.0	¼" and 6mm	Rear	No	42.0	10.50	GRN	8²⁵⁄₆₄"	Ingersoll Rand	M2H180RG4	**45JW75**
	1.0	¼" and 6mm	Rear	No	42.0	10.50	GRN	13²³⁄₆₄"	Ingersoll Rand	M2X180RH63	**45JW85**
19,000 rpm	0.8	¼"	Rear	No	31.8	15.90	C	8¹³⁄₁₆"	Chicago Pneumatic	CP3109-19	**45TX48**
20,000 rpm	0.40	¼"	Rear	Yes	23.3	5.80	ACC	7²³⁄₃₂"	Chicago Pneumatic	CP3000-420R	**22P502**
	0.4	¼"	Rear	No	19.0	4.80	C	6⅛"	Ingersoll Rand	G1H200RG4	**1TDG7**
	0.4	¼"	Rear	No	23.0	5.75	CRG	6¹³⁄₃₂"	Dynabrade	48360	**13F661**
	0.4	¼"	Rear	Yes	11.0	1.60	C	7¹³⁄₁₆"	Speedaire	12V735	**12V735**
	0.5	¼"	Front	No	24.0	6.00	C	7"	Dynabrade	51302	**25H869**
	0.7	¼"	Front	No	34.0	8.50	C	6"	Dynabrade	52258	**13F671**
	0.7	¼"	Rear	Yes	28.0	7.00	ACC	7⅜"	Chicago Pneumatic	CP3000-520R	**22P486**
	1.0	¼" and 6mm	Rear	Yes	42.0	10.50	P	8⅜"	Ingersoll Rand	M2H200RG4	**45EU61**
	1.0	¼"	Rear	No	44.0	11.00	C	8¾"	Dynabrade	52669	**13F675**
24,000 rpm	0.5	¼"	Rear	Yes	21.0	10.50	A	5¾"	Chicago Pneumatic	CP860	**11C966**
	0.5	¼"	Rear	Yes	23.3	5.80	ACC	7²³⁄₃₂"	Chicago Pneumatic	CP3000-424R	**22P485**
25,000 rpm	0.35	¼"	Rear	Yes	11.0	1.60	C	7¹³⁄₁₆"	Speedaire	12V736	**12V736**
	0.4	¼"	Front	No	20.0	5.00	C	5⅛"	Dynabrade	52200	**25H892**
	0.4	¼"	Rear	No	12.0	3.00	A	5⁴⁵⁄₆₄"	Speedaire	45YY22	**45YY22**
	0.4	¼"	Rear	Yes	19.0	4.70	ACC	6"	Chicago Pneumatic	CP3000-325R	**22P498**
	0.4	¼"	Rear	No	20.0	5.00	C	6⅛"	Ingersoll Rand	G1H250RG4	**1TDG6**
	0.4	¼"	Rear	No	32.0	8.00	C	6½"	Ingersoll Rand	325SC4A	**4TMA7**
	0.4	¼"	Rear	No	25.0	6.00	C	6⁹⁄₁₆"	Ingersoll Rand	5108MAX	**23Z013**
	0.4	¼"	Rear	No	23.0	5.75	CRG	8"	Dynabrade	48325	**13F662**
	1.0	¼" and 6mm	Rear	No	45.0	10.50	GRN	8²⁵⁄₆₄"	Ingersoll Rand	M2H250RG4	**45JW89**
30,000 rpm	0.3	¼"	Rear	No	13.0	3.00	A	6¹⁵⁄₃₂"	Speedaire	12V734	**12V734**
	0.33	¼"	Rear	No	30.0	8.00	C	6½"	Ingersoll Rand	330SC4A	**4TMC1**
	0.4	¼"	Front	No	20.0	5.00	C	5⅛"	Dynabrade	52202	**25H893**
	0.4	¼"	Rear	Yes	19.0	4.75	ACC	6"	Chicago Pneumatic	CP3000-330R	**22P484**
	0.4	¼"	Rear	No	23.0	5.75	CRG	6½"	Dynabrade	48327	**13F663**
	0.4	⅛"	Rear	No	23.0	5.75	C	6½"	Dynabrade	48345	**25H846**
35,000 rpm	0.37	—	Rear	No	30.0	8.00	C	6½"	Ingersoll Rand	335SC4A	**4TMA8**
	0.4	¼"	Rear	No	25.0	6.30	C	6⅛"	Ingersoll Rand	G1H350RG4	**1TDG5**
	0.4	¼"	Rear	No	23.0	5.75	CRG	8"	Dynabrade	48355	**13F664**
Industrial Duty, Extended											
5000 rpm	0.4	¼"	Rear	No	23.0	5.75	CRG	9¹³⁄₁₆"	Dynabrade	47202	**13F665**
18,000 rpm	1.0	¼"	Rear	No	36.8	18.40	ARG	13"	Chicago Pneumatic	CP3451-18SEC	**11C902**
	1.2	¼"	Rear	No	38.2	19.08	C	14.2"	Chicago Pneumatic	CP3119-18ES	**36WC52**
	1.35	¼"	Rear	No	55.0	13.80	C	14⅛"	Ingersoll Rand	G3X180RG4	**1TDG2**
20,000 rpm	0.5	¼"	Rear	No	31.0	7.75	C	17⅞"	Dynabrade	53502	**25H943**
25,000 rpm	0.3	¼"	Rear	No	12.0	3.00	PVC	10⅝"	Speedaire	12V737	**12V737**
	0.4	¼"	Rear	No	25.0	6.30	C	9⅛"	Ingersoll Rand	G1X250RG4	**1TDG4**
	0.4	—	Rear	No	30.0	8.00	C	9⅝"	Ingersoll Rand	325XC4A	**4TMA9**
Die Grinder Accessory Kit											
50-pc. Die Grinder Accessory Kit									Ingersoll Rand	23A-VAR-GR	**1FYV2**

*† CFM is based on a 1-min. run time. ** A = Aluminum, ACC = Aluminum with Composite Cover, ARG = Aluminum with Rubber Grip, C = Composite, CRG = Composite with Rubber Grip, GRN = Glass Reinforced Nylon, M = Metal, P = Plastic, PVC = Polyvinyl Chloride.*

Pneumatic Pencil and Inline Die Grinders

SPEEDAIRE · Chicago Pneumatic · Ingersoll Rand · DYNABRADE

- ⅛" collet

Speedaire®—High-speed design include precision collet, variable-speed control, and 58" air hose with integrated exhaust.

Ingersoll Rand—All units can use either carbide burrs or mounted grinding stones, sold separately on pages 2298, 2299.


No. 21AA92


No. 11C977


No. 5Z344

Free Speed	HP	Exhaust Type	Variable Speed	Throttle	Average CFM @ 15-sec. Run Time*	Whip Hose I.D.	Overall Length	Tool Wt.	Brand	Mfr. Model	Item No.
General Duty Pencil Grinders											
56,000 rpm	0.1	Rear	Yes	Twist	1.50	7/32"	5¼"	0.25 lb.	Speedaire	21AA92	**21AA92**
60,000 rpm	0.05	Rear	Yes	Twist	1.80	¼"	5⅛"	0.5 lb.	Chicago Pneumatic	CP9104Q	**11C977**
Industrial Duty Pencil Grinders											
60,000 rpm	0.10	Rear	Yes	Twist	1.80	7/32"	5⅛"	0.2 lb.	Ingersoll Rand	GH011A-600-1	**5Z344**
	0.10	Front	No	Slide	1.50	3/16"	5⅔"	0.3 lb.	Ingersoll Rand	7978	**5Z343**
	0.12	Rear	Yes	Twist	1.50	¼"	6"	0.3 lb.	Chicago Pneumatic	CP3000-600CR	**22P487**
70,000 rpm	0.1	Rear	Yes	Twist	1.50	7/32"	7⅛"	0.31 lb.	Speedaire	21AA93	**21AA93**
Straight Line Pencil Grinders											
25,000 rpm	0.40	Rear	Yes	Twist	5.00	¼"	5 21/32"	1.2 lb.	Dynabrade	52861	**13F656**
35,000 rpm	0.10	Rear	No	Twist	2.00	¼"	5¼"	0.7 lb.	Dynabrade	51706	**13F652**
50,000 rpm	0.10	Rear	No	Twist	2.00	¼"	5¼"	0.7 lb.	Dynabrade	51703	**13F653**
60,000 rpm	0.10	Rear	No	Twist	2.00	¼"	5¼"	0.6 lb.	Dynabrade	51700	**13F654**
100,000 rpm	0.10	Rear	No	Twist	1.50	¼"	5 5/16"	1.2 lb.	Dynabrade	51810	**13F655**

**** Avg. cfm is based on a 1-min. run time.***

Pneumatic Sanders

SPEEDAIRE · DYNABRADE · Ingersoll Rand · Chicago Pneumatic

- Required psi: 90
- Air inlet: ¼"
- Min. hose size: ⅜"

Note: See page 2370 for sanding discs.

No. 10D238—Includes 1 each of 3", 4½", and 5" sanding pads, setting steel bar, and L-shaped wrench.

No. 11C919—Includes: (1) Mini pistol disc sander with 3" Roloc pad, (10) 3" 80-, 100-, and 120-grit sanding discs, (1) 3" fine, medium, and coarse surface prep discs, and spindle wrench packed in a heavy-duty carrying case.

Nos. 11C929 and 5KB20—Side handle fits either left or right side. Include lockout nut and wrench.

No. 11C996—Features a rear exhaust and a pistol grip.

Nos. 13F677 and 13F678—Ergonomic offset handle provides greater operator comfort and control. Gearless design reduces downtime and maintenance costs.

Industrial-Duty Right-Angle—Nos. 13F686 and 13F687 rear exhaust-type sanders are for composite and fiberglass sanding. Nos. 13F659, 13F660, and 13F689 are low-profile rotational exhaust-type units with a high power-to-weight ratio and ergonomic design.

Industrial-Duty Straight-Line—Reload easily with quick action paper clamps. 1" stroke length. Use bodyfile sanding sheets.

Industrial-Duty Vertical—Use fiber discs and come with a 7" backing pad.


No. 10D238


No. 5KB20


No. 11C926


No. 13F659

Pad Size	Free Speed	HP	Pad Face Type	Arbor Hole	Spindle Size	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Exhaust Type	Handle Material**	Variable Speed	Overall Length	Brand	Mfr. Model	Item No.
Light Duty Kits														
Mini Sander Kit														
3" to 5"	16,000 rpm	0.4	—	—	7/16"-20	3.50	19.7	Handle	C	Yes	5 1/16"	Speedaire	10D238	**10D238**
Pistol Kit														
3"	15,000 rpm	0.2	—	—	¼"-20	10.50	21.0	Silent Handle	ARG	No	4"	Chicago Pneumatic	CP7202D	**11C919**
Light Duty														
High Speed														
5½"	18,000 rpm	0.5	PSA	7/8"	7/16"-20	5.70	23.0	Front	A	Yes	4½"	Speedaire	48LZ97	**48LZ97**
Mini														
2" or 3"	15,000 rpm	0.2	Roloc-Style (3M)	—	¼"	2.10	19.4	Through Handle	C	Yes	5.3"	Ingersoll Rand	3103XPA	**12T589**
2"	16,500 rpm	0.2	Hook	—	M10X1.5	1.83	13.2	Rear	A	No	4⅞"	Speedaire	10D233	**10D233**
3"	16,000 rpm	0.4	Hook-and-Loop	—	5/16"-24	3.50	19.7	Handle	C	Yes	4⅞"	Speedaire	10D237	**10D237**
General Duty														
Angled														
7"	5000 rpm	0.71	Plastic	7/8"	5/8"-11	6.60	26.7	Rear	ARG	Yes	12 13/32"	Chicago Pneumatic	CP7269S	**11C929**
	5000 rpm	0.5	—	5/8"	5/8"-11	8.00	29.0	Rear	M	No	16"	Ingersoll Rand	313A	**5KB20**
High Speed														
3" or 5"	18,000 rpm	—	—	7/8"	7/16"-20	12.00	25.0	Rear	M	No	4⅜"	Ingersoll Rand	317A	**5KB21**
Pistol Grip														
5"	14,000 rpm	0.5	Plastic	7/8"	7/16"-20	12.00	21.0	Rear	A	No	10½"	Chicago Pneumatic	CP9778	**11C996**
Vertical														
7"	5000 rpm	0.71	Plastic	7/8"	5/8"-11	8.00	32.0	Rear	ARG	No	11 13/16"	Chicago Pneumatic	CP7265S	**11C926**
Industrial Duty														
7° Offset														
2"	25,000 rpm	0.4	Locking	—	¼"-20	5.75	23.0	Rear	CRG	No	9"	Dynabrade	48500	**25H849**
3"	15,000 rpm	0.7	Locking	—	3/8"-24	8.00	32.0	Front	C	No	6"	Dynabrade	52410	**13F677**
	20,000 rpm	0.7	Locking	—	3/8"-24	9.00	36.0	Front	C	No	6"	Dynabrade	52412	**13F678**
High Speed														
—	20,000 rpm	0.4	—	—	¼"-20	6.00	25.0	Rear	C	No	6"	Ingersoll Rand	G1A200RS4	**1TDH5**
Right Angle														
2"	12,000 rpm	0.4	Locking	—	¼"-20	5.00	20.0	Rear	C	No	9¾"	Dynabrade	51230	**13F686**
	20,000 rpm	0.4	Locking	—	¼"-20	5.00	20.0	Rear	C	No	9¾"	Dynabrade	51232	**13F687**
	20,000 rpm	0.4	Locking	—	¼"-20	6.25	25.0	Front	CRG	No	5"	Dynabrade	47822	**25H840**
3"	18,000 rpm	0.7	Locking	—	3/8"-24	10.25	41.0	Rear	C	No	8½"	Dynabrade	54400	**13F683**
4½" to 5"	11,000 rpm	1.0	Thermoplastic	—	5/8"-11	10.25	41.0	Rear	C	No	11 11/16"	Dynabrade	52561	**25H917**
4½"	12,000 rpm	1.3	Rubber	—	5/8"-11	10.75	43.0	Rotational	R	No	10"	Dynabrade	52634	**13F659**
5"	12,000 rpm	1.3	—	—	—	10.75	43.0	Rotational	C	No	10"	Dynabrade	52635	**25H923**
7"	6000 rpm	1.3	Rubber	—	5/8"-11	10.00	40.0	Rotational	R	No	10"	Dynabrade	52657	**13F660**
	6000 rpm	1.3	Rubber	—	5/8"-11	10.00	40.0	Rotational	R	No	14⅜"	Dynabrade	52597	**13F689**
	8500 rpm	1.3	Thermoplastic	—	5/8"-11	10.00	40.0	Rotational	C	No	10"	Dynabrade	53868	**25H951**
Straight Line														
2¾" x 8"	2400 rpm	0.3	Vinyl or Hook	—	—	4.50	18.0	Rear	R	No	8"	Dynabrade	57400	**25H964**
2¾" x 17½"	5000 rpm	—	Clip	—	—	8.50	10.7	Rear	A	Yes	16½"	Chicago Pneumatic	CP7268	**11C927**
Vertical														
4"	11,000 rpm	0.7	Locking	—	3/8"-24	8.00	32.0	Rear	R	No	6⅝"	Dynabrade	50324	**25H861**
4½"	11,000 rpm	0.7	Metal Assembly	—	5/8"-11	8.00	32.0	Rear	R	No	6⅝"	Dynabrade	53021	**13F679**
7"	6000 rpm	0.8	—	5/8"	5/8"-11	5.50	22.0	Side	M	No	6⅝"	Ingersoll Rand	7S60L	**3Y504**

† Avg. cfm is based on a 1-min. run time. ** A = Aluminum, ARG = Aluminum with Rubber Grip, C = Composite, CRG = Composite with Rubber Grip, M = Metal, R = Rubber.


No. 11X733


No. 11C997


No. 1TDH6


No. 21AC02

SPEEDAIRE · DYNABRADE · Chicago Pneumatic · Ingersoll Rand

Pneumatic Industrial-Duty Belt Sanders

Note: See page 2364 for abrasive belts. For contact arm assemblies and tune up kits, go to Grainger.com®.

Belt Size	Free Speed	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Exhaust Type	Includes	Overall Length	Brand	Mfr. Model	Item No.
Sanders									
⅛ to ½" W x 24" L	20,000 rpm	7.75	31.0	Front	Mfg. Model 11218 Contact Arm	14⅝"	Dynabrade	14000	**11X731**
⅛ to ½" W x 12" L	25,000 rpm	5.00	20.0	Front and Rear	Mfg. Model 15026 Contact Arm, Mfg. Model 15118 Drive Wheel	11¾"	Dynabrade	15003	**11X737**
¼ to ¾" W x 18" L	20,000 rpm	7.00	28.0	Front	Mfg. Model 11206 Contact Arm	14 ¼"	Dynabrade	40320	**11X733**
¼ to ¾" W x 20½" L	20,000 rpm	7.00	28.0	Front	Mfg. Model 11287 Contact Arm	14 ¼"	Dynabrade	40326	**11X735**
⅜" W x 13" L	22,000 rpm	14.00	28.0	Rear	—	12"	Chicago Pneumatic	CP9779	**11C997**
½" W x 12" L	12,000 rpm	4.75	19.0	Rear	—	10¾"	Ingersoll Rand	G1A120RS812	**1TDH6**
½" W x 24" L	20,000 rpm	10.80	21.6	Rear	—	15⅜"	Chicago Pneumatic	CP5080-4200D24	**22P496**
½" W x 18" L	20,000 rpm	10.80	21.6	Rear	—	13⅜"	Chicago Pneumatic	CP5080-4200H18	**22P497**
	20,000 rpm	7.00	28.0	Front	Mfg. Model 11203 Contact Arm	14¼"	Dynabrade	40335	**25H829**
½" W x 12" L	26,000 rpm	8.90	17.8	Rear	—	11⅜"	Chicago Pneumatic	CP5080-3260D12	**22P495**
1" W x 18" L	22,000 rpm	13.55	27.1	Rear	—	13⅜"	Chicago Pneumatic	CP5080-5220H18	**22P512**
Kits									
⅛ to ½" W x 24" L	20,000 rpm	7.75	31.0	Front	(5) Contact Arms, Assortment of Abrasive Belts, Case	14⅝"	Dynabrade	14010	**11X732**
¼ to ¾" W x 18" L	20,000 rpm	7.00	28.0	Front	(3) Contact Arms, (8) Abrasive Belts, (3) Platen Pads, ¼" Collet For Die Grinder Use, (2) Wrenches, Case	14 ¼"	Dynabrade	40321	**11X734**
½" W x 18" L	20,000 rpm	8.90	21.6	Rear	(3) Contact Arms, (5) Belts, (1) Hex Key	13⅜"	Chicago Pneumatic	CP5080-4200H18K	**22P511**
½"W x 12"L	20,000 rpm	4.20	24.0	Rear	3mm Hex Key, Grinding Belt #60, Grinding Belt #120, (2) Surface Prep Belt	12⅜"	Speedaire	21AC03	**21AC03**
½" W x 12" L	26,000 rpm	4.40	17.8	Rear	(3) Contact Arms, (5) Belts, (1) Hex Key	11⅜"	Chicago Pneumatic	CP5080-3260D12K	**22P510**
¾"W x 18"L	18,000 rpm	4.50	12.5	Rear	4mm Hex Key, Grinding Belt #60 , Grinding Belt #80, Handle	15⅜"	Speedaire	21AC02	**21AC02**

† Avg. cfm is based on a 1-min. run time.


No. 6Z563


No. 11C903


No. 13F632


No. 21AC01

DYNABRADE · Ingersoll Rand · Chicago Pneumatic · SPEEDAIRE

Pneumatic Random Orbital and Geared Dual-Action Sanders

- Vinyl pad face
- 3/16" orbit, except Nos. 3YY25, and 3YY26 have 3/32" orbit

Geared Dual Action (DA)—Dual-action motion pad provides swirl-free finishes. Come with a 6" foam-backed pad that accepts PSA sandpaper.

For Use With	Brand	Mfr. Model	Item No.
Tune Up Kits, include Rotor and Vane Set, Bearings O-Rings, Muffler Components			
Mfr. No. 56815, 56826, 56818, 56819	Dynabrade	96024	**13F716**
13F636, 13F637, 13F638, 13F639	Dynabrade	96620	**13F717**
13F632, 13F633, 13F634, 13F635	Dynabrade	96510	**13F718**

**** Nonvacuum sanders use PSA (pressure sensitive adhesive) sandpaper. See Index under "Sandpaper, PSA Disc." † Avg. cfm is based on 1-min. run time.***

HP	Pad Size	Pad Face Type	Orbit Dia.	Free Speed	CFM @ Full Load†	Overall Length	Brand	Mfr. Model	Item No.
Geared Dual Action (DA)									
Self Generating Vacuum									
0.25	6"	PSA	3/16"	12,000 rpm	17.0	9 23/64"	Ingersoll Rand	311A	**6Z563**
	8"	PSA	5/32"	825 rpm	16.0	7 5/16"	Ingersoll Rand	328B	**4Y368**
0.30	6"	PSA	3/8"	10,000 rpm	18.0	4½"	Chicago Pneumatic	CP870	**11C967**
Light Duty Mini Kit									
0.2	2" and 3"	Hook-and-Loop	3/32"	15,000 rpm	21.0	5 45/64"	Chicago Pneumatic	CP7200S	**11C917**
0.20	3"	Hook-and-Loop	3/16"	15,000 rpm	14.7	18.1"	Ingersoll Rand	3128XPA	**12T594**
Random Orbital Sanders									
Central Vacuum									
0.25	5"	PSA	3/16"	12,000 rpm	14.0	7¼"	Dynabrade	59024	**13F635**
0.26	5"	PSA	3/16"	12,000 rpm	16.0	7¼"	Dynabrade	69024	**13F639**
0.28	5"	PSA	3/16"	12,000 rpm	18.0	7¼"	Dynabrade	56819	**13F643**
0.30	6"	PSA	3/16"	12,000 rpm	16.0	8 45/64"	Chicago Pneumatic	CP7255CV	**11C923**
Nonvacuum									
0.08	1¼"	Locking	3/16"	7500 rpm	6.0	5"	Dynabrade	57502	**25H968**
0.20	3½"	PSA	3/16"	12,000 rpm	15.8	7"	Ingersoll Rand	RS23B-PLV-1	**3YY27**
	5"	PSA	3/16"	12,000 rpm	15.8	7"	Ingersoll Rand	R025B-PSV-1	**3JF08** *
	5"	PSA	3/32"	12,000 rpm	15.8	7"	Ingersoll Rand	R025B-PSV-2	**3YY25**
	5"	PSA	3/16"	12,000 rpm	16.0	6 5/16"	Chicago Pneumatic	CP3511	**11C903**
	6"	PSA	3/16"	12,000 rpm	15.8	7½"	Ingersoll Rand	R026B-PSV-1	**3JF13** *
	6"	PSA	3/32"	12,000 rpm	15.8	7½"	Ingersoll Rand	R026B-PSV-2	**3YY26**
0.24	3 2/5" x 7"	Vinyl or Hook	3/32"	10,000 rpm	16.0	7¼"	Dynabrade	57810	**25H971**
0.25	5"	PSA	3/16"	12,000 rpm	14.0	6½"	Dynabrade	59020	**13F632**
	5"	Vinyl or Hook	3/32"	12,000 rpm	14.0	6½"	Dynabrade	59035	**25J005**
	5"	PSA	3/8"	12,000 rpm	14.0	6½"	Dynabrade	59005	**25H994**
	6"	PSA	3/16"	12,000 rpm	14.0	7"	Dynabrade	59025	**13F633**
0.26	5"	PSA	3/16"	12,000 rpm	16.0	6½"	Dynabrade	69020	**13F636**
	6"	PSA	3/16"	12,000 rpm	16.0	7"	Dynabrade	69025	**13F637**
0.28	5"	PSA	3/16"	12,000 rpm	18.0	6½"	Dynabrade	56815	**13F640**
	5"	Vinyl	3/32"	12,000 rpm	18.0	6½"	Dynabrade	56850	**25H957**
	6"	PSA	3/16"	12,000 rpm	18.0	7"	Dynabrade	56826	**13F641**
0.30	5"	PSA	3/16"	10,000 rpm	18.5	7"	Ingersoll Rand	R035A-PSV	**3JF18** *
	6"	PSA	3/32"	12,000 rpm	16.0	7 5/16"	Chicago Pneumatic	CP7225	**11C920**
	6"	PSA	3/16"	12,000 rpm	16.0	7 5/16"	Chicago Pneumatic	CP7255	**11C922**
	6"	Hook-and-Loop	3/16"	12,000 rpm	16.0	7 5/16"	Chicago Pneumatic	CP7255E	**11C924**
0.45	6"	Hook-and-Loop	3/16"	12,000 rpm	23.0	11 1/16"	Dynabrade	58435	**13F648**
Nonvacuum, Palm									
0.30	6"	PSA	3/16"	10,000 rpm	18.5	7½"	Ingersoll Rand	R036A-PSV	**3JF24** *
Self Generating Vacuum									
0.20	5"	PSA	3/16"	12,000 rpm	15.8	7"	Ingersoll Rand	R025B-VLV-1	**3JF09**
0.25	5"	PSA	3/16"	12,000 rpm	14.0	8½"	Dynabrade	59023	**13F634**
0.28	5"	PSA	3/16"	12,000 rpm	18.0	8½"	Dynabrade	56818	**13F642**
0.30	3 1/16" x 6¾"	PSA	—	8000 rpm	12.0	9"	Ingersoll Rand	312A	**5LA61**
	3⅝" x 6½"	Foam Rubber	5/32"	8000 rpm	17.6	7⅞"	Speedaire	21AC01	**21AC01**
	6"	PSA	3/16"	12,000 rpm	16.0	9 7/64"	Chicago Pneumatic	CP7255SV	**11Z511**
Vacuum Ready									
0.20	5"	PSA	3/16"	12,000 rpm	15.5	7"	Ingersoll Rand	4151-5	**5RAE9**
	6"	PSA	3/16"	12,000 rpm	15.5	7"	Ingersoll Rand	4151	**1MM30**
	6"	PSA	—	12,000 rpm	15.5	7 27/64"	Ingersoll Rand	4152	**454Z54**
0.26	5"	PSA	3/16"	12,000 rpm	16.0	8½"	Dynabrade	69021	**13F638**
0.30	5"	PSA	3/16"	10,000 rpm	18.5	7"	Ingersoll Rand	R035A-CSV	**3JF15**
	6"	PSA	3/16"	10,000 rpm	18.5	7½"	Ingersoll Rand	R036A-CSV	**3JF21**



SPEEDAIRE® Ingersoll Rand Chicago Pneumatic DYNABRADE

Cut-Off Tools

All units feature a guard that can be rotated 360° and rear exhaust.

Note: For cut-off wheels, see page 2383.

Industrial-Duty—Accepts Type 27 grinding wheels.

Wheel Dia.	Free Speed	Average CFM @ 15-sec. Run Time*	Handle Material	Overall Length	Includes	Brand	Mfr. Model	Item No.
Light-Duty								
3"	20,000 rpm	6.00	Aluminum	7½"	14mm Hex Wrench, 3/16" Wrench	Speedaire	48MA05	**48MA05**
Light-Duty Kit								
3"	20,000 rpm	6.00	Aluminum	7½"	(1) 14mm Hex Wrench, (1) 3/16" Wrench, (8) Cut Off Wheels, (1) Plastic Case	Speedaire	48MA06	**48MA06**
General-Duty, Straight Line								
2⅛"	20,000 rpm	10.00	Composite	8⅞"	—	Ingersoll Rand	326	**4Y366**
2⅛"	22,000 rpm	3.10	Aluminum	7¼"	Safety Guard	Chicago Pneumatic	CP874	**11C969**
3"	22,000 rpm	4.00	Aluminum	7½"	Spanner, 5mm Hex Key	Speedaire	21AC04	**21AC04**
General-Duty, Right Angle								
3"	12,000 rpm	5.25	Composite	8½"	—	Dynabrade	52439	**25H912**
4"	14,000 rpm	7.00	Composite	14 13/16"	(5) Norton Cutting Disc	Chicago Pneumatic	CP9116	**36WC33**
Industrial-Duty, Right Angle								
2½"	4500 rpm	3.00	Aluminum	8"	Wheel, Spindle Wrenches	Speedaire	45YY24	**45YY24**
2½"	12,000 rpm	3.00	Aluminum	6"	Wheel, Spindle Wrenches	Speedaire	45YY23	**45YY23**
Industrial-Duty, Straight Line								
2⅞"	20,000 rpm	10.00	Aluminum	7 13/16"	—	Chicago Pneumatic	CP861	**36WC66**
3"	18,000 rpm	10.30	—	14⅞"	—	Dynabrade	52537	**13F685**
3"	20,000 rpm	6.30	Composite	6"	Wheel Guard, Spindle and Nut Wrenches	Ingersoll Rand	G1A200RH63	**1TDH8**
4"	18,000 rpm	10.00	—	14⅞"	—	Dynabrade	52580	**13F684**
4"	17,000 rpm	4.00	Aluminum	15¾"	Spanner, 4mm Hex Key	Speedaire	21AC05	**21AC05**

Avg. cfm is based on a 1-min. run time.



Air Shears

SPEEDAIRE® Ingersoll Rand Chicago Pneumatic

Air shears move freely, facilitating straight and contoured cuts with minimal edge distortion. They cut sheet metal up to 20-ga. thickness.

Strokes per Minute	Gauge Thickness	Average CFM @ 15-sec. Run Time	CFM @ Full Load*	Overall Length	Brand	Item No.
General Duty						
2600	18	4.00	16.0	9 1/16"	Speedaire	**21AC07**
4200	20	4.00	21.0	9½"	Ingersoll Rand	**5KB22**
Industrial Duty						
2400	18	3.70	15.5	8¼"	Chicago Pneumatic	**11C951**

CFM is based on a 1-min. run time.



SPEEDAIRE® Chicago Pneumatic Ingersoll Rand DYNABRADE

Engraving Pens and Reciprocating Filer Tools

- Required psi: 90
- Air inlet: ¼" NPT

Speedaire®—Offer fine-point stylus for precise engraving and cushion finger grip for comfort.

Ingersoll Rand—Feature zoom throttle and variable speed.

CFM @ Full Load*	Min. Hose Size	Hose Length	Includes	Brand	Mfr. Model	Item No.
General-Duty Engraving Pens						
1.0	5/16"	59"	—	Speedaire	21AC06	**21AC06**
1.7	¼"	79"	—	Chicago Pneumatic	CP9160	**11C986**
Industrial-Duty Engraving Pen Kits						
1.1	3/16"	96"	Air Hose, 3/16" Bore, 2 Air Filter Assembly, 3 Stylus - Carbide Tipped, Writing and Engraving, 4 Anvils, 5 Flat Chisels, 6 Chisel Blanks, 7 Round Nose Chisel,1 Carry Case	Chicago Pneumatic	CP9361-1	**11C992**
2.5	7/32"	66"	Flexible Hose, Three Assorted Styluses and Molded Plastic Case	Ingersoll Rand	EP50K	**3Y478**
Industrial-Duty Engraving Pens						
1.1	3/16"	96"	—	Chicago Pneumatic	CP9361	**11C991**
2.5	7/32"	—	—	Ingersoll Rand	EP50	**3Y479**
Reciprocating Filer Tool						
4.0	9/16"	—	In-Line Filter, Air Line Swivels, Wrench, One Touch On and Off Button	Dynabrade	10843	**13F650**
Reciprocating Filer Tool Kit						
4.0	9/16"	—	In-Line Filter, Air Line Swivels, Wrench, One Touch On and Off Button, DynaPen, Swiss Pattern Files, Scribe Point, Chisel, and Wrench	Dynabrade	10850	**13F651**

Avg. cfm is based on a 1-min. run time.



SPEEDAIRE® Chicago Pneumatic Ingersoll Rand

Air-Powered Reciprocating Saws

Air saws make straight and curved cuts in sheet metal, aluminum, plastic, fiberglass, and composite materials. They can be operated using one hand and can access small spaces. No. 6W381 includes 6 blades; No. 11C956 includes case and 15 blades.

Strokes per Minute	Average CFM @ 15-sec. Run Time	CFM @ Full Load*	Overall Length	Brand	Item No.
Light Duty, Mini					
7500	0.70	1.3	6⅛"	Speedaire	**10D241**
General Duty					
9000	2.00	8.0	10⅜"	Speedaire	**21AC08**
10,000	1.50	5.5	8½"	Chicago Pneumatic	**11C954**
	2.00	10.0	9¼"	Speedaire	**21AC09**
	2.50	8.0	8¼"	Ingersoll Rand	**6W381**
General Duty-Low Vibration					
9500	1.10	1.1	9¾"	Ingersoll Rand	**23Z007**
10,000	1.50	5.5	9"	Chicago Pneumatic	**11C955**
	1.50	5.5	9"	Chicago Pneumatic	**11C956**

Teeth per Inch	Blade Length	Brand	Item No.	Pkg. Qty.
Replacement Reciprocating Saw Blades				
Metal Tip, Bi-Metal Body Material				
14/18	4"	Ingersoll Rand	**2KGY4**	6
	3½"	Ingersoll Rand	**2KGY7**	20
24	4"	Ingersoll Rand	**2KGY9**	50
	4"	Ingersoll Rand	**2KGY5**	20
	4"	Ingersoll Rand	**2KGY3**	6
32	4"	Ingersoll Rand	**2KGY8**	50
	4"	Ingersoll Rand	**2KGY6**	20
	4"	Ingersoll Rand	**2KGY2**	6

CFM is based on a 1-min. run time.


No. 3AAH8


No. 3JD20


No. 33E883


No. 3AAJ1


No. 3AAH6

Chicago Pneumatic

SPEEDAIRE

Ingersoll Rand

Chisel Scalers, Needle Scalers, and Kits

- Required psi: 90
- Air inlet: ¼" NPT, except where noted

Needle scalers are great for removing rust, paint, dirt, and weld on metal surfaces, even in tight spaces, corners, or curved surfaces. All models use a lever throttle except No. 3AAH8, which has a push-button throttle. Chisel scalers have ½" square shank.

Industrial-Duty Chisel/Needle Scaler Kit No. 3Y591—Includes Scaler No. 3Y590, (38) 5" needles, (19) 7" needles, 6⅛" angle chisel, 6⅛" straight chisel, 7" flat chisel, and case.

Industrial-Duty Chisel/Needle Scaler Kit No. 3AAH6—Includes Scaler No. 3AAH7, 19 needles, flat chisel, moil point chisel, angle chisel, and case.

Industrial-Duty Chisel/Needle Scaler Kit No. 12V732—Includes 3 chisels, (38) 5" needles, (19) 7" needles, ¼" air nipple hex wrench, and plastic case.

Blows per Minute	Stroke Length	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Min. Hose Size	Overall Length	Brand	Mfr. Model	Item No.
General-Duty Chisel/Needle Scaler								
Straight								
4800	1 3/16"	1.00	4.0	3/8"	18"	Chicago Pneumatic	CP7120	**11C912**
General-Duty Needle Scalers								
Pistol								
3000	2 5/8"	2.80	11.0	3/8"	14 15/16"	Speedaire	3AAH8	**3AAH8**
4000	1 5/16"	1.10	4.6	3/8"	12 3/4"	Chicago Pneumatic	CP7125	**33E883**
Straight								
4000	1 5/16"	1.00	4.0	3/8"	11.4"	Chicago Pneumatic	CP7115	**33E884**
4600	1 17/32"	3.20	13.0	3/8"	18"	Speedaire	3AAH7	**3AAH7**
4600	1 1/8"	8.00	15.0	5/16"	18 3/8"	Ingersoll Rand	125-A	**3JD20**
6000	5/8"	3.00	12.0	3/8"	11 1/2"	Speedaire	45YY25	**45YY25**
Industrial-Duty Chisel Scalers								
Pistol								
2200	1 17/32"	4.00	8.0	5/16"	12 13/32"	Ingersoll Rand	180PG-CS	**3YY23**
3000	1 13/32"	3.00	5.5	5/16"	12 13/32"	Ingersoll Rand	170PG-CS	**3YY22**
Straight								
4000	1 1/16"	6.50	13.0	5/16"	15"	Ingersoll Rand	182L	**3Y590**
4600	1 7/64"	2.50	10.2	3/8"	9 13/32"	Chicago Pneumatic	CP9356	**11C989** *
4800	1 17/32"	3.10	12.4	3/8"	14 9/16"	Speedaire	3AAJ1	**3AAJ1**
5500	9/16"	6.00	12.0	5/16"	13 3/4"	Ingersoll Rand	172L	**3Y594**
Industrial-Duty Chisel/Needle Scaler Kits								
Straight								
3000	2 1/4"	6.00	24.0	3/8"	6 3/4"	Speedaire	45YY26	**45YY26**
4000	1 1/16"	6.50	13.0	5/16"	9"	Ingersoll Rand	182K1	**3Y591**
4600	1 17/32"	3.20	13.0	3/8"	18"	Speedaire	3AAH6	**3AAH6**
4600	1 19/64"	3.65	10.0	3/8"	16 1/2"	Speedaire	12V732	**12V732**
Industrial-Duty Needle Scalers								
Pistol								
2200	1 17/32"	4.00	8.0	5/16"	12 5/8"	Ingersoll Rand	180PG	**3YY21**
2500	2 3/64"	5.00	10.0	3/8"	18 1/8"	Speedaire	12V730	**12V730**
3000	1 13/32"	3.00	5.5	5/16"	12 5/8"	Ingersoll Rand	170PG	**3YY20**
3700	1 5/16"	1.10	4.5	3/8"	12 7/8"	Speedaire	3AAH9	**3AAH9**
Straight								
3000	1 13/32"	1.00	3.0	3/8"	14.4"	Chicago Pneumatic	B16M	**42NY07**
4000	1 1/16"	2.30	9.2	3/8"	13 1/2"	Speedaire	3AAJ2	**3AAJ2**
4000	1 1/16"	3.00	13.0	5/16"	15"	Ingersoll Rand	182LNA1	**3Y589**
4600	1 7/64"	2.50	10.2	3/8"	17 1/2"	Chicago Pneumatic	CP9356NS	**11C990** *
5500	9/16"	3.00	12.0	5/16"	13 3/4"	Ingersoll Rand	172LNA1	**3Y593**

Description	Overall Length	Shank Size	Brand	Mfr. Model	Item No.
19 Pc. Replacement Needle Set	5"	0.125"	Westward	4MHF2	**4MHF2**
19 Pc. Replacement Needle Set	7"	0.125"	Westward	4MHF3	**4MHF3**

** ¾" air inlet. † CFM is based on a 1-min. run time.*


No. 6Z559


No. 11C915


No. 12V729

SPEEDAIRE

Ingersoll Rand

Chicago Pneumatic

Air Hammers

- Required psi: 90
- Air inlet: ¼" NPT
- Min. hose size: ⅜", except where noted
- Use 0.401" shank chisels (Nos. 45NW68 and 11C915 use 0.498")
- Spring-type chisel retainer

Suitable for chipping, general sheet metal cutting, light vehicle exhaust work, scraping, and rivet or joint removal and separation.

Note: Be sure that the chisel is held securely against the work surface and is never allowed to "free fire", or allow the chisel to strike the retainer.

LIGHT-DUTY

For general maintenance or shop use. Nos. 21AC12 and 21AC14 include spring retainer; Nos. 21AC12 and 48MA02 and include chisels.

GENERAL-DUTY

For automotive, general maintenance, or light construction.

GENERAL-DUTY KITS

No. 4UJL1—Includes 5-pc. chisel kit with edging tool, tail pipe cutter, ¾" flat chisel, cutting chisel, and punch.

No. 12V728—Includes spring retainer and 5 chisels.

No. 3JD19—Includes Hammer No. 2Z750 and 6 chisels packaged in a blow-molded plastic case.

INDUSTRIAL-DUTY

Designed for constant use. Suitable for construction, riveting, or production line use. Kit Nos. 23Z004 and 23Z006 include tool, quick change retainer, 5 chisels, blow-molded case, and manuals.

Note: For replacement chisels and retainers, see page 2514.

Blows per Minute	Stroke Length	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Overall Length	Brand	Mfr. Model	Item No.
Light-Duty							
3200	2 5/8"	3.60	7.0	6 3/4"	Speedaire	21AC12	**21AC12**
	2 5/8"	4.10	7.0	6 3/4"	Speedaire	21AC14	**21AC14**
Light-Duty Kit							
5000	1 5/8"	5.50	22.0	8"	Speedaire	48MA02	**48MA02**
General-Duty							
2000	3 1/2"	3.00	14.0	10"	Ingersoll Rand	117	**12T586**
	3 1/2"	4.00	8.0	9"	Speedaire	21AC10	**21AC10**
3000	2 3/32"	3.00	15.0	7 5/8"	Ingersoll Rand	121/Q	**2Z750**
	2 5/8"	6.25	25.0	6 11/16"	Chicago Pneumatic	CP7111	**11C911**
3200	2 5/8"	4.00	7.0	6 3/4"	Speedaire	21AC11	**21AC11**
3500	2 5/8"	3.00	15.0	7 27/32"	Ingersoll Rand	116	**6Z559**
5000	1 5/8"	2.00	14.0	6 7/64"	Ingersoll Rand	115	**20CK95**
General-Duty Kits							
2000	3 1/2"	3.00	15.0	10"	Ingersoll Rand	117K	**4UJL1**
	3 1/2"	3.00	15.0	9 29/32"	Speedaire	12V728	**12V728**
2300	3 1/2"	6.25	25.0	8 29/32"	Chicago Pneumatic	CP7150K	**11C914**
3000	2 3/32"	3.00	15.0	7 5/8"	Ingersoll Rand	121-K6	**3JD19**
3500	2 5/8"	3.00	15.0	7 27/32"	Ingersoll Rand	116K	**20CK97**
5000	1 5/8"	2.00	14.0	6 7/64"	Ingersoll Rand	115K	**20CK96**
General-Duty Reduced Vibration							
3200	2 5/8"	3.60	14.6	9"	Chicago Pneumatic	CP7110	**11C910**
Industrial-Duty							
1500	3-11/34"	3.20	13.0	7 7/8"	Speedaire	45NW68	**45NW68**
1725	4"	3.00	11.0	8 1/2"	Ingersoll Rand	132	**12T587** *
	4"	3.20	13.0	8 3/4"	Ingersoll Rand	AVC13A1	**3Y496**
1800	2 45/64"	3.20	13.0	7 1/2"	Chicago Pneumatic	CP717	**11C915**
2000	3 1/2"	2.10	8.5	7 1/2"	Chicago Pneumatic	CP714	**11C913**
2100	3"	3.20	13.0	7 3/4"	Ingersoll Rand	AVC12A1	**3Y497**
	3 1/2"	2.80	8.0	11"	Speedaire	21AC13	**21AC13**
2500	3 1/2"	11.25	2.9	10 1/2"	Ingersoll Rand	119MAX	**23Z003**
2800	2 11/64"	2.00	10.0	6 1/2"	Speedaire	12V729	**12V729**
3000	2 1/4"	3.00	12.0	7 3/8"	Ingersoll Rand	772	**3Y517**
3500	2 5/8"	2.90	11.6	8 3/8"	Ingersoll Rand	123MAX	**23Z005**
Industrial-Duty Kits							
2500	3 1/2"	11.25	2.9	10 1/2"	Ingersoll Rand	119MAXK	**23Z004**
3500	2 5/8"	11.25	2.9	8 3/8"	Ingersoll Rand	122MAXK	**23Z006**

** Min. hose size: 5/16". † CFM is based on a 1-min. run time.*

Ingersoll Rand SPEEDAIRE®

Chipping Hammers

- Required psi: 90

More blows per minute, or smaller stroke length means that the tool will work faster. Fewer blows per min. or longer stroke length means more power from the tool.

Note: Be sure that the chisel is held securely against the work surface and is never allowed to "free fire" or allow the chisel to strike the retainer. This practice could damage the retainer and break the barrel.

SPEEDAIRE®

For heavy-duty cutting, chipping, and scraping. Include chisel retainer, a quick-change retainer spring to easily change tools, and a variable-speed trigger.

INGERSOLL RAND NO. 4KR81

4-bolt blackhead design for easy serviceability. Features die-cast D-shaped handle and steel over-molded collar.

INGERSOLL RAND NOS. 3Y546, 3Y571, 3Y574, 3Y545, 6Z571, 4Z260, 3Y441, 3Y443, AND 3Y445

Special plated piston reduces wear and extends life. Forged steel throttle handle.

INGERSOLL RAND RIVET BUSTER NO. 3Y844

Features improved piston and shock-resistant material. Uses Jumbo 4-sided chisel tools. Suitable for rivet busting and general demolition.

Note: For chisels, see page 2514.


No. 48MA10


No. 21AC16


No. 4Z260

Blows per Minute	Stroke Length	CFM Average*	CFM @ Full Load†	Air Inlet	Min. Hose	Specify Size	Overall Length	Brand	Mfr. Model	Item No.
0.580" Hex Shank Grooved Barrel with Spring Retainer Chipping Hammers										
1480	4"	7.20	29.0	⅜"	½"	Oval	18⅞"	Ingersoll Rand	4A1SA	**3Y546**
1725	3"	7.20	29.0	⅜"	½"	Oval	17⅞"	Ingersoll Rand	3A1SA	**3Y571**
2300	2"	7.00	28.0	⅜"	½"	Oval	16"	Ingersoll Rand	2A1SA	**3Y574**
2400	3 39/64"	10.80	20.8	⅜"	½"	Oval	12⅞"	Speedaire	12V727	**12V727**
0.680" Round Shank Grooved Barrel with Spring Retainer Chipping Hammers										
1480	4"	7.20	29.0	⅜"	½"	Oval	18⅞"	Ingersoll Rand	4A2SA	**3Y545**
1725	3"	7.20	29.0	⅜"	½"	Oval	17⅞"	Ingersoll Rand	3A2SA	**6Z571**
2100	1"	6.00	23.5	⅜" NPT	½"	Oval	14½"	Speedaire	21AC16	**21AC16**
2200	2"	7.00	28.0	⅞"	1"	Oval	13¾"	Ingersoll Rand	2DA2SA	**4KR81**
2300	2"	7.00	28.0	⅜"	½"	Oval	16"	Ingersoll Rand	2A2SA	**4Z260**
2300	3"	6.50	26.0	⅜" NPT	½"	Oval	14"	Speedaire	48MA10	**48MA10**
2400	3 1/32"	10.20	33.8	⅜"	⅜"	Oval	14 13/32"	Speedaire	12V726	**12V726**
0.680" Round Shank Threaded Barrel with Rubber Buffered Retainer Chipping Hammers										
1480	4"	7.20	29.0	⅜"	½"	Round	19¼"	Ingersoll Rand	W4A2	**3Y441**
1725	3"	7.20	29.0	⅜"	½"	Round	18¼"	Ingersoll Rand	W3A2	**3Y443**
2300	2"	7.00	28.0	⅜"	½"	Round	16⅜"	Ingersoll Rand	W2A2	**3Y445**
0.888" Jumbo Shank Threaded Barrel Rubber Retainer Rivet Buster										
900	9"	10.00	40.0	½"	¾"	Threaded Barrel with Lock Clip	22½"	Ingersoll Rand	9001	**3Y844**

**** Avg. cfm is based on a 15-sec. run time. † cfm is based on a 1-min. run time.***

Ingersoll Rand

Diggers, Paving Breakers, Rock Drills, and Backfill Tamper

DIGGERS

Latch retainer-type diggers for light- and medium-weight use.

PAVING BREAKERS

More powerful with fewer parts than competitive models. Spring-loaded anvil bushing keeps tool on work surface. 1-pc. housing eliminates side rods and springs.

ROCK DRILLS

Designed with speed and hole-cleaning capacity for fast rock-drilling applications. Easily adjustable 3-speed throttles with reversible pawls. Drill 2½" dia. holes up to 6-ft. deep.

AIR BACKFILL TAMPER

Ideal for backfilling around foundations and other tight areas. Dual-action sand wiper keeps dirt out of the barrel. Tamper includes built-in lubricator and muffler. Also has ⅞" tapered rod, plated piston, and standard 5¾" round malleable butt.


No. 3JD47


No. 3Y679


No. 3YY24


No. 4Y242

Description	Shank Size Hex w/ Collar	Piston Stroke	Piston Bore	Blows Per Minute	cfm @ Full Load	Required Pressure	Air Inlet	Min. Hose Size	Overall Length	Mfr. Model	Item No.
Air Diggers											
D-Grip Handle	⅞ x 3¼"	2½"	1 1/16"	2350	45.0	90 psi	⅜" NPT	½"	18⅞"	93LA1	**3JD44**
	⅞ x 3¼"	4"	1 1/16"	1850	47.0	90 psi	⅜" NPT	½"	21⅞"	95LA1	**3JD46**
	1 x 4¼"	4"	1 1/16"	1850	47.0	90 psi	⅜" NPT	½"	21⅞"	95LA3	**3JD47**
Air Paving Breakers											
35 lb. Class	1 x 4¼"	6¼"	1¾"	1250	49.0	90 psi	¾" NPT	¾"	25"	PB35AL8	**3Y690**
60 lb. Class	1⅛ x 6"	5¾"	2 1/16"	1250	70.0	90 psi	¾" NPT	¾"	27½"	MX60A	**3JD98**
	1¼ x 6"	5¾"	2 1/16"	1250	70.0	90 psi	¾" NPT	¾"	27½"	MX60B	**3JF01**
90 lb. Class	1⅛ x 6"	5¾"	2⅝"	1250	85.0	90 psi	¾" NPT	¾"	27½"	MX90A	**3Y682**
	1¼ x 6"	5¾"	2⅝"	1250	85.0	90 psi	¾" NPT	¾"	27½"	MX90B	**3Y679**
Air Rock Drills											
T-Grip Handle	⅞ x 4¼"	1 1/16"	2⅜"	2700	73.0	90 psi	¾" NPT	¾"	19½"	JRD30-B	**3YY24**
	1 x 4¼"	2⅝"	2½"	2000	115.0	90 psi	¾" NPT	¾"	22½"	JH40C3	**3Y698**
Air Backfill Tamper											
Straight Handle	—	4"	1⅝"	1550	29.0	90 psi	⅜" NPT	½"	52¼"	341A2M	**4Y242**
Replacement Butts											
Replacement Butt, For Use With , 3" Dia.										34SR-383	**2KJK5**


No. 4MGY2


No. 4MGX9


No. 4MGZ8

WESTWARD

Rivet Hammer Chisels

Heat-treated alloy steel promotes long life.

Note: For Air Rivet Buster Chisels go to Grainger.com®.

Item	Fits	Item No.
Retainers for 0.401" Shank Pneumatic Hammers		
Ball Type Retainer	Speedaire, Dayton, Chicago Pneumatic, UT, Raider	4MGY2
Ball Type Retainer	Ingersoll Rand, Sioux	4MGX8
Spring Retainer	Dayton, CP, UT, Raider	4MGX9
Spring Retainer	Ingersoll Rand	4MGY1
Retainers for 0.680" Shank Chipping Hammers with Retainers		
Chisel Retainer	Dayton, CP, Jet	4MGZ8
Chisel Retainer	Ingersoll Rand	4MGZ9

Item	Tip Width	Overall Length	Item No.
0.401" Round Shank Hammer Chisels			
Chisel Set	—	6½"	4MHF1
Claw Ripper Rivet Chisel	—	5⅜"	4MHE7
Cut-off Chisel	—	6⅞"	4MHE2
Flat Rivet Chisel	¾"	18"	4MHD8
	¾"	6½"	4MHD7
Muffler Splitter Chisel	—	7½"	4MHE3
Punch Blank	½"	6½"	4MHE5
Ripping Chisel	—	6"	4MHE1
Rivet Cutter Chisel	—	5¾"	4MHE8
Rivet Hammer Chisel	¾"	8½"	4MHE6
Rivet Hammer V-Chisel	—	6¼"	4MHE9
Scraping Rivet Hammer Chisel	1 5⁄16"	6¼"	4MHD9
Tapered Punch	—	6½"	4MHE4
0.580" Hex Shank - Chipping Hammer Chisels (Oval Collar)			
Chipping Hammer Chisel	2"	8"	4MGY7
Flat Chisel	1"	9"	4MGY3
	1"	12"	4MGY4
Moil Point Chisel	—	8"	4MGY6
	—	9"	4MGY5
0.680" Round Shank - Chipping Hammer Chisels (Oval Collar)			
Flat Chisel	1"	9"	4MGZ2
	1"	12"	4MGZ3
Moil Point Chisel	—	9"	4MGZ4
	—	12"	4MGZ5
Scaling Chisel	2"	8"	4MGZ7
0.680" Round Shank - Chipping Hammer Chisels (Round Collar)			
Flat Chisel	1"	9"	4MGY8
	1"	12"	4MGZ1
Moil Point Chisel	—	12"	4MGZ6
Scaling Chisel	2"	9"	4MGY9


No. 4MHD8

No. 4MHE5


No. 4MHD9


No. 4MHE4

WESTWARD

Scaling Hammer Chisels

Item	Shank Type	Tip Width	Overall Length	Item No.
Angled Chisel	B1/Cleco	1⅜"	7"	4MHA3
	Fuji	1⅜"	7"	4MHA7
	IR	1⅜"	7"	4MHC4
Flat Chisel	B1/Cleco	¾"	7"	4MHA1
	B1/Cleco	1⅜"	7"	4MHA2
	B1/Cleco	2"	7"	4MHA4
	Fuji	¾"	7"	4MHA5
	Fuji	1⅜"	7"	4MHA6
	Fuji	2"	7"	4MHA8
	IR	¾"	7"	4MHC1
	IR	1⅜"	7"	4MHC2
	IR	1⅜"	12"	4MHC3
	IR	2"	7"	4MHA9


No. 4MHA1

WESTWARD

Paving Breaker Chisels

Item	Tip Width	Overall Length	Item No.
0.875" x 3-3/20" Hex Shank			
Flat Chisel	—	17"	4MHC5
0.875" x 3-3/20" Shank			
Moil Point Chisel	—	18"	4MHC6
1.000" x 4⅛" Shank			
Flat Chisel	—	18"	4MHC7
1.000" x 4¼" Shank			
Moil Point Chisel	—	19"	4MHC8
1.250" x 6¼" Hex Shank			
Asphalt Cutter Chisel	5"	18.1"	4MHD6
1.125" x 6" Hex Shank			
Asphalt Cutter Chisel	5"	17"	4MHD3
Moil Point Chisel	—	20"	4MHD1
Paving Breaker Chisel	3"	21"	4MHD2
Standard Narrow Chisel	—	20"	4MHC9
1.250" x 6" Shank			
Flat Chisel	—	20"	4MHD4
Moil Point Chisel	—	20"	4MHD5


No. 4MHC5


No. 4MHD3

SPEEDAIRE · Ingersoll Rand · HUBBELL

Tool Retractors

ADJUSTABLE TOOL RETRACTORS

Include adjustable cable stop and lower safety hook.

Hubbell BD Series—Rugged ABS plastic construction with spring tension adjustment and push-button tension release.

Hubbell BG Series—Steel construction with a black polyester baked finish. Available in both ratcheted and constant pull configurations.

INDUSTRIAL TOOL RETRACTORS

Speedaire®—Rugged steel construction; permanent lubrication; easily replaceable, self-contained main spring. External tension adjustment requires no special tools. Include adjustable cable stop and safety hook.

Ingersoll Rand—Rugged steel retractor has a permanently lubricated, self-contained main spring that is easily replaceable. External tension adjustment requires no tools. Nylon-coated steel aircraft cable with adjustable cable stop and safety hook.

PRODUCTION TOOL RETRACTORS

Easy cable tension adjustment, in-line alignment of hanger and tool hook, and maintenance-free design.

Speedaire—Die-cast aluminum units feature 3 suspension points.

Ingersoll Rand—Feature in-line adjustment of hanger and tool hook.


No. 5YAP1


No. 6HH12


No. 6EPV8

For Tool Weighing	Cable Length	Ratchet Lock	Reel Weight	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Adjustable Tool Retractors									
0.50 to 1.50 lb.	6 ft.	No	1 lb.	9¼"	2⅞"	4"	Hubbell	BD-01	6HH07 *
1.50 to 3.00 lb.	6 ft.	No	1 lb.	9¼"	2⅞"	4"	Hubbell	BD-03	6HH08 *
3.00 to 5.00 lb.	6 ft.	No	1.1 lb.	9¼"	2⅞"	4"	Hubbell	BD-05	6HH09 *
5.00 to 10.00 lb.	8 ft.	No	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-07	6HH10 *
	8 ft.	Yes	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-07-L	6HH11 *
10.00 to 15.00 lb.	8 ft.	No	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-15	6HH12 *
	8 ft.	Yes	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-15-L	6HH13 *
16.00 to 23.00 lb.	8 ft.	No	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-20	1YMP6 *
	8 ft.	Yes	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-20-L	1YMP7 *
22.00 to 27.00 lb.	8 ft.	No	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-25	1YMP8 *
	8 ft.	Yes	8 lb.	13⅞"	3⅜"	8¾"	Hubbell	BG-25-L	1YMP9 *
Industrial Tool Retractors									
4.00 to 9.00 lb.	8 ft.	No	6.28 lb.	7 9⁄16"	7 9⁄16"	3⅞"	Speedaire	5YAP0	5YAP0
9.00 to 13.00 lb.	8 ft.	No	6.61 lb.	7 9⁄16"	7 9⁄16"	3⅞"	Speedaire	5YAP2	5YAP2
13.20 to 17.60 lb.	6.5 ft.	No	5.5 lb.	11⅛"	5⅞"	3⅜"	Ingersoll Rand	BMDS-8	6EPV8
Production Tool Retractors									
1.00 to 2.00 lb.	5 ft.	No	1.39 lb.	4 7⁄16"	4 7⁄16"	2⅜"	Speedaire	5YAP1	5YAP1
2.00 to 4.00 lb.	5 ft.	No	1.48 lb.	4 7⁄16"	4 7⁄16"	2⅜"	Speedaire	5YAP3	5YAP3
2.20 to 5.50 lb.	6.5 ft.	No	4.4 lb.	11⅛"	5⅞"	3⅜"	Ingersoll Rand	BMDS-2	6EPW0
4.00 to 6.00 lb.	5 ft.	No	1.74 lb.	4 7⁄16"	4 7⁄16"	2⅜"	Speedaire	5YAN8	5YAN8
4.40 to 8.80 lb.	6.5 ft.	No	4.4 lb.	11⅛"	5⅞"	3⅜"	Ingersoll Rand	BMDS-4	6EPV9
6.00 to 8.00 lb.	8 ft.	No	6.28 lb.	7 9⁄16"	7 9⁄16"	3⅞"	Speedaire	5YAN7	5YAN7

** Hook -to-hook height, cable retracted.*

Ingersoll Rand

Air Hose Reel Tool Retractors

- No ratchet lock
- 11¾"H x 5¾"W x 4⅛"D

Retractors use the air hose, instead of cables, to suspend air tools.

For Tool Weighing	Hose Length	Reel Weight	Mfr. Model	Item No.
0.90 to 1.70 lb.	4.25 ft.	2.6 lb.	BHR-8	1YTG7
1.50 to 3.30 lb.			BHR-15	1YTG8
2.60 to 5.50 lb.		2.9 lb.	BHR-25	1YTG9


No. 1YTG9

SPEEDAIRE

Find replacement nozzles at Grainger.com®.

Thumb-Switch and Push-Button Air Guns

- Max. output psi: 90
- Inlet connection: ¼" (F)NPT
- Outlet: ⅛" (F)NPT

Overall Length	Nozzle	Max. dBA	Air Consumption	Color	Item No.
Aluminum, Short Lever					
4½"	Venturi	97	16 scfm	Gray	**458J42**
5½"	Airshield	97	22 scfm	Gray	**458J41**
6"	Whisper Jet®	89	19 scfm	Gray	**458J40**
8¼"	Venturi	100	16 scfm	Gray	**458J43**
14¼"	Venturi	100	16 scfm	Gray	**458J44**
20¼"	Venturi	100	16 scfm	Gray	**458J45**
26¼"	Venturi	100	16 scfm	Gray	**458J46**
38¼"	Venturi	100	16 scfm	Gray	**458J47**
50¼"	Venturi	100	16 scfm	Gray	**458J48**
62¼"	Venturi	100	16 scfm	Gray	**458J49**
74¼"	Venturi	100	16 scfm	Gray	**458J50**
Chrome Plated Aluminum, Thumb Lever					
3¾"	Standard, Non-Safety	—	8 scfm	Chrome	**22YK46**
4"	Safety	—	11 scfm	Chrome	**22YK47**
Chrome Plated Zinc, Thumb Lever					
4¼"	Safety	—	11 scfm	Chrome	**22YK48**
4¼"	Standard, Non-Safety	—	8 scfm	Chrome	**22YK49**
4½"	Tamper Resistant	—	8 scfm	Chrome	**22YK52**
5"	Rubber	—	11 scfm	Chrome	**22YK50**
5¼"	Venturi Safety	—	11 scfm	Chrome	**22YK51**
6½"	Safety	—	26 scfm	Chrome	**22YK53**
Zinc, Button					
2"	Safety	100	9 scfm	Chrome	**52CF73**
2¼"	Standard Non-Safety	100	9 scfm	Chrome	**52CF78**
2⅞"	Standard Non-Safety	90	8 scfm	Zinc	**52CF75**
3½"	Standard Non-Safety	89	9 scfm	Zinc	**52CF79**
4¼"	Standard Non-Safety	89	9 scfm	Zinc	**52CF80**
4¾"	Safety	89	9 scfm	Zinc	**52CF76**
5¼"	Safety	100	15 scfm	Chrome	**52CF72**
Zinc, Lever					
8¾"	Brass Tip, Steel Brush	95	9 scfm	Chrome	**52CF77**



No. 22YK50



No. 22YK53



No. 52CF75



No. 52CF76



No. 52CF72



No. 5A258



No. 1KUF4



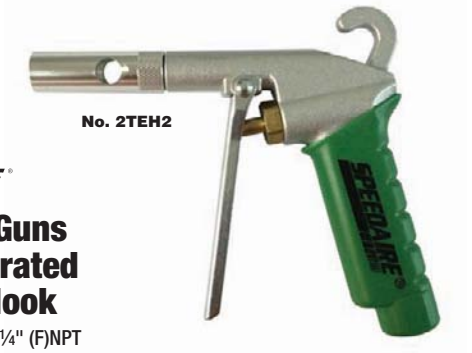
No. 52CF84

Air Gun Kits

SPEEDAIRE BRECO GUARDAIR

Description	Includes	Brand	Mfr. Model	Item No.
4 pc.	Rubber Tip, Standard Tip, Inflator Needle Tip, Safety Nozzle	Speedaire	22YK41	**22YK41**
5 pc.	Heavy-Duty Air Gun, High Flow Safety Nozzle, 6" Extension Safety Nozzle, Rubber Tip Nozzle, Needle Tip Nozzle, Air Screen Safety Nozzle, Clear Vinyl Storage Pouch	Breco	301695.1	**5A258**
5 pc.	Tire Inflator, 360° Rotatable Nozzle, Needle Inflator, Inflator Nozzle, Fitting Adapter	Speedaire	52KD66	**52KD66**
6 pc.	High Flow Nozzle, Small, Medium, Large Rubber Nozzle Tips, Bypass Nozzle, Chip Shield	Speedaire	52KD67	**52KD67**
6 pc.	Star Tip Nozzle, Small, Medium, Large Rubber Tip Nozzles, Bypass Nozzle, Chip Shield	Speedaire	52KD68	**52KD68**
7 pc.	Palmswitch Air Gun, Venturi Nozzle, Booster Nozzle, Rubber Tip Nozzle, 3" and 6" Extensions, ¼ Male Industrial Interchange Coupler	Guardair	LZR6007KIT	**5JEL1**
7 pc.	Pistol Grip Air Gun, Venturi Nozzle, Booster Nozzle, Rubber Tip Nozzle, 3" and 6" Extensions, ¼" Male Industrial Interchange Coupler	Guardair	LZR6507KIT	**5JEL2**
8 pc.	Steel Tip, Safety Tip, Adjustable Tip, Rubber Tip, Air Screen Tip, Safety Booster Tip, 3" Aluminum Tip	Speedaire	52CF65	**52CF65**
12 pc.	Plastic Blow Gun, Metal Blow Gun, ¼" Male Plug, Safety Booster Tip, Inflating Tip, Siphon Tip, Plastic Tip, Rubber Tip, 2" Needle Tip, 3" Needle Tip, 4" Needle Tip, 6" Extension Safety Tip	Speedaire	52CF84	**52CF84**
13 pc.	Tru-Flate Coupler Plug, Milton Coupler Plug, Chip Shield, Ball Needle, Standard Tip, Tire Inflator Nozzle, Safety Nozzle, Rubber Tip, 4" Thread Tube, 2m Hose, Siphon Body, 240mm Air Nozzle	Speedaire	52CF74	**52CF74**
17 pc.	Air Gun, ¼" FNPT Coupler,Dual Foot Chuck, Inflation Needle, ¼" FNPT Coupling, Safety Nozzle, Tapered Inflater, Tire Gauge, Adapter for Inflators, (4ea): ¼" MNPT Plugs, (2 ea):1/4" FNPT Plugs, ¼" MNPT Nipples	Speedaire	AC8001	**1KUF4** †
20 pc.	(5) ¼" MNPT Plugs, (2) ¼" FNPT Plugs, ¼" MNPT Nipples, Inflator Needles, ¼" FNPT Quick Coupler, ¼" MNPT Quick Coupler, ¼" FNPT Coupler, Rubber Tip Extension, Tire Inflator, Extension Adapter, Ball Tire Chuck, Nozzle, Key Ring, Pencil Tire Gauge, PVC Padded Case	Speedaire	52KD69	**52KD69**

† Limited Availability.



SPEEDAIRE

Pistol Air Guns with Integrated Hanging Hook

- Inlet connection: ¼" (F)NPT

Overall Length	Outlet Size	Nozzle	Output	Max. dBA	Air Consumption	Body Material	Item No.
5½"	7/16"	Safety	1.92 LbF	97	35 scfm	Aluminum	**2TEH2**
6½"	½-20" UNF	Safety	2.9 LbF	99	48 scfm	Aluminum	**2TEH9**
6¾"	½-20" UNF	Safety	1.6 LbF	87	34 scfm	Aluminum	**2TEH6**



SPEEDAIRE

Pistol Air Guns

- Inlet connection: ¼" (F)NPT
- Plastic body

Overall Length	Outlet Size	Nozzle	Air Consumption	Output	Max. dBA	Item No.
Permanent Nozzle						
10¼"	M14 x 1" (F)NPT	Standard	25 scfm	150 psi	89	**52KD64**
	M14 x 1" (F)NPT	Star Tip	8 scfm	150 psi	81	**52KD65**
Removable Nozzle						
9¾"	⅛" (M)NPT	Standard Non-Safety	9 scfm	90 psi	90	**52CF62**
10¼"	M14 x 1" (F)NPT	Standard	25 scfm	150 psi	89	**52KD62**
	M14 x 1" (F)NPT	Star Tip	8 scfm	150 psi	81	**52KD63**
10¾"	⅛"	Safety	18 scfm	150 psi	85	**52KD71**
11¼"	⅛"	Multi Port	20 scfm	160 psi	95	**52KD72**
16⅜"	⅛" (M)NPT	Standard Non-Safety	9 scfm	90 psi	90	**52CF63**
24"	⅛" (M)NPT	Standard Non-Safety	9 scfm	90 psi	90	**52CF68**



GUARDAIR

Ergonomic Air Guns

- Inlet connection: ¼" (F)NPT
- Outlet connection: ⅛" (F)NPT
- Venturi safety nozzle
- Max. dBA: 100
- Cast-aluminum body

Compact design for quick access and pinpoint accuracy.

Extension Size	PALM SWITCH Output	PALM SWITCH Air Consumption	PALM SWITCH Item No.	PISTOL GRIP Output	PISTOL GRIP Air Consumption	PISTOL GRIP Item No.
—	0.6 LbF	8 scfm	**1CJG4**	0.6 LbF	8 scfm	**1CJG5**
6"	0.9 LbF	13 scfm	**3APY4**	1.1 LbF	15 scfm	**3APZ3**
12"	0.9 LbF	13 scfm	**3APY5**	1.1 LbF	15 scfm	**3APZ4**
18"	0.9 LbF	13 scfm	**3APY6**	1.1 LbF	15 scfm	**3APZ5**
24"	0.9 LbF	13 scfm	**3APY7**	1.1 LbF	15 scfm	**3APZ6**
36"	0.9 LbF	13 scfm	**3APY8**	1.1 LbF	15 scfm	**3APZ7**
48"	0.9 LbF	13 scfm	**3APY9**	1.1 LbF	15 scfm	**3APZ8**
60"	0.9 LbF	13 scfm	**3APZ1**	1.1 LbF	15 scfm	**3APZ9**
72"	0.9 LbF	13 scfm	**3APZ2**	1.1LbF	15 scfm	**3ARA1**

Find replacement nozzles at Grainger.com®.



GUARDAIR

Blind Hole, Air Miser, and Safety Air Shield Air Guns

- Inlet connection: ¼" (F)NPT
- Aluminum body

BLIND HOLE
Specially designed nozzle used for cleaning confined spaces.

AIR MISER
Reduces air output by 80%.

SAFETY AIR SHIELD
Nozzle creates a secondary cone of air to deflect flying debris. No. 3MNR6 offers a needle valve adjustment for output control.

Overall Length	Extension Size	Nozzle	Output	Max. dBA	Air Consumption	Mfr. Model	Item No.
Blind Hole							
14"	6"	Safety	0.1 LbF	103	35 scfm	74BH006Z	**3MNR2**
Air Miser							
8½"	—	Low Flow Brass, Pinned, Tamper Proof, Airshield	0.6 LbF	98	10 scfm	74H	**3MNR4**
Safety Air Shield							
5"	—	Pinned, Tamper Proof	0.4 LbF	102	35 scfm	74S	**1RF79**
7"	—	Rubber Tip	0.4 LbF	108	38 scfm	74RT	**19A830**
8½"	—	Pinned, Tamper Proof	0.4 LbF	102	35 scfm	74SK	**3MNR6**
8½"	—	Pinned, Tamper Proof	1.0 LbF	104	36 scfm	57S30XB	**3MNP9**
11¾"	6"	Pinned, Tamper Proof	0.5 LbF	104	35 scfm	76S006	**19A850**



GUARDAIR

Low-Noise High Flow Air Guns

- Pistol grip
- Low-noise nozzle
- Aluminum body

Overall Length	Extension Size	Air Gun Inlet Size	Outlet Size	Output	Max. dBA	Air Consumption	SHORT TRIGGER Item No.	LONG TRIGGER Item No.
Classic								
5"	—	¼" (F)NPT	¾"-32	1.1 LbF	93	20 scfm	**1RF89**	—
9"	—	¼" (F)NPT	¾"-32	1.1 LbF	93	20 scfm	**3MNT1**	—
16"	12"	¼" (F)NPT	¾"-32	1.5 LbF	99	29 scfm	**1RF87**	—
22¼"	18"	¼" (F)NPT	¾"-32	1.5 LbF	97	29 scfm	**5GAU2**	—
28"	24"	¼" (F)NPT	¾"-32	1.5 LbF	99	29 scfm	**1RF88**	—
43"	36"	¼" (F)NPT	¾"-32	1.5 LbF	99	29 scfm	**3MNT3**	—
52¼"	48"	¼" (F)NPT	¾"-32	1.5 LbF	99	29 scfm	**5GAU4**	—
Ultra								
5⅞"	—	⅜" (F)NPT	¾"-32	1.9 Lbf	97	40 scfm	**19A827**	—
13"	6"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLW4**	**3MLX9**
19"	12"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLW6**	**3MLY2**
25"	18"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLW8**	**3MLY4**
32"	24"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLX1**	**3MLY6**
43"	36"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLX3**	**3MLY8**
55"	48"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3KMD2**	**3MLZ1**
67"	60"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLX5**	**3MLZ3**
79"	72"	⅜" (F)NPT	¾"-32	1.9 LbF	97	40 scfm	**3MLX7**	**3MLZ5**

Description	Material	Item No.
Air Gun Hook Assembly	Plastic	**19A834**
Air Gun Handle Assembly, Ultra, Short Trigger	Aluminum	**19A835**

Find replacement nozzles at Grainger.com®.

GUARDAIR. SPEEDAIRE®

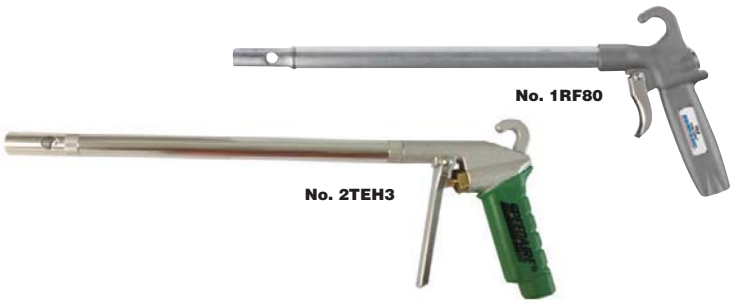
Extended-Reach Air Guns

For hard-to-reach applications. Air gun nozzles and extensions are available on Grainger.com.®

Classic+®, Extreme Flow, and High Flow—Ergonomically designed comfort grip reduces user fatigue.

Xtra Thrust®—Provide up to 50% more thrust than conventional air guns.

Ultra®—Feature premium cushion-grip handle for comfort and thermal protection.



Air Gun Inlet Size	Outlet Size	Overall Length	Extension Size	Nozzle	Max. dBA	Output	Air Consumption	Body Material	Mfr. Model	Item No.
Guardair Classic+® -Pistol Grip										
	¾"-32 (F)NPT	10½"	6"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ006AA	**19A840**
	¾"-32 (F)NPT	16"	12"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ012AA	**1RF80**
	¾"-32 (F)NPT	16½"	12"	Nylon Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ012NN	**19A822**
	¾"-32 (F)NPT	22½"	18"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ018AA	**19A841**
	¾"-32 (F)NPT	28"	24"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ024AA	**1RF81**
¼" (F)NPT	¾"-32 (F)NPT	28½"	24"	Nylon Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ024NN	**19A823**
	¾"-32 (F)NPT	40"	36"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ036AA	**1RF82**
	¾"-32 (F)NPT	40½"	36"	Nylon Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ036NN	**19A824**
	¾"-32 (F)NPT	52½"	48"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ048AA	**19A842**
	¾"-32 (F)NPT	64¼"	60"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ060AA	**5GAU5**
	¾"-32 (F)NPT	76¼"	72"	Venturi	107	2.0 LbF	34 scfm	Aluminum	75LJ072AA	**5GAU6**
Guardair Classic+ Xtra Thrust® - Pistol Grip										
	¾"-32 (F)NPT	6½"	—	Xtra Thrust®	108	2.5 LbF	54 scfm	Aluminum	75XXT	**19A847**
	¾"-32 (F)NPT	10¼"	6"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT006AA	**5GAU7**
	¾"-32 (F)NPT	16"	12"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT012AA	**1RF83**
	¾"-32 (F)NPT	22¼"	18"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT018AA	**5GAU8**
¼" (F)NPT	¾"-32 (F)NPT	28"	24"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT024AA	**1RF84**
	¾"-32 (F)NPT	40"	36"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT036AA	**1RF85**
	¾"-32 (F)NPT	52¼"	48"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT048AA	**5GAU9**
	¾"-32 (F)NPT	64¼"	60"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT060AA	**5GAV0**
	¾"-32 (F)NPT	76¼"	72"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT072AA	**5GAV1**
	¾"-32 (F)NPT	148½"	144"	Xtra Thrust®	108	2.8 LbF	54 scfm	Aluminum	75XT144AA	**19A846**
Guardair Ultra®- Pistol Grip										
2" Trigger										
¼" (F)NPT	¾"-32 (F)NPT	10⅜"	6"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ006AA225	**19A828**
	¾"-32 (F)NPT	13"	6"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ006AA2	**3MLP1**
	¾"-32 (F)NPT	16"	12"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ012AA2	**4FE75**
	¾"-32 (F)NPT	25"	18"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ018AA2	**3MLP3**
⅜" (F)NPT	¾"-32 (F)NPT	28"	24"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ024AA2	**4FE76**
	¾"-32 (F)NPT	40"	36"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ036AA2	**4FE77**
	¾"-32 (F)NPT	52"	48"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ048AA2	**4FE78**
	¾"-32 (F)NPT	67"	60"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ060AA2	**3MLP5**
	¾"-32 (F)NPT	79"	72"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ072AA2	**3MLP7**
3" Trigger										
	¾"-32 (F)NPT	13"	6"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ006AA3	**3MLP9**
	¾"-32 (F)NPT	19"	12"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ012AA3	**3MLR2**
	¾"-32 (F)NPT	25"	18"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ018AA3	**3MLR4**
⅜" (F)NPT	¾"-32 (F)NPT	32"	24"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ024AA3	**3MLR6**
	¾"-32 (F)NPT	43"	36"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ036AA3	**3MLR8**
	¾"-32 (F)NPT	55"	48"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ048AA3	**3MLT1**
	¾"-32 (F)NPT	67"	60"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ060AA3	**3MLT3**
	¾"-32 (F)NPT	79"	72"	Venturi	104	2.8 LbF	49 scfm	Aluminum	U75LJ072AA3	**3MLT5**
Guardair Ultra Xtra Thrust® - Pistol Grip										
2" Trigger										
¼" (F)NPT	¾"-32 (F)NPT	10⅜"	6"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT006AA225	**19A829**
	¾"-32 (F)NPT	13"	6"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT006AA2	**3MLT7**
	¾"-32 (F)NPT	16"	12"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT012AA2	**3MLT9**
	¾"-32 (F)NPT	25"	18"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT018AA2	**3MLU2**
⅜" (F)NPT	¾"-32 (F)NPT	32"	24"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT024AA2	**3MLU4**
	¾"-32 (F)NPT	43"	36"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT036AA2	**3MLU6**
	¾"-32 (F)NPT	55"	48"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT048AA2	**3MLU8**
	¾"-32 (F)NPT	79"	60"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT060AA2	**3MLV1**
	¾"-32 (F)NPT	79"	72"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT072AA2	**3MLV3**
3" Trigger										
	¾"-32 (F)NPT	13"	6"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT006AA3	**3MLV5**
	¾"-32 (F)NPT	16"	12"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT012AA3	**4FE79**
	¾"-32 (F)NPT	25"	18"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT018AA3	**3MLV7**
⅜" (F)NPT	¾"-32 (F)NPT	28"	24"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT024AA3	**4FE80**
	¾"-32 (F)NPT	40"	36"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT036AA3	**4FE81**
	¾"-32 (F)NPT	52"	48"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT048AA3	**4FE82**
	¾"-32 (F)NPT	67"	60"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT060AA3	**3MLV9**
	¾"-32 (F)NPT	79"	72"	Xtra Thrust®	101	3.3 LbF	66 scfm	Aluminum	U75XT072AA3	**3MLW2**
Speedaire® Button										
	⅛" (F)NPT	14"	12¾"	Safety	90	90 psi	9 scfm	Zinc	52CF71	**52CF71**
	⅛" (F)NPT	17½"	12½" to 23¼"	Standard Non-Safety	85	90 psi	4 scfm	Zinc	52CF64	**52CF64**
¼" (F)NPT	⅛" (F)NPT	26"	24¾"	Safety	95	90 psi	9 scfm	Zinc	52CF67	**52CF67**
	⅛" (F)NPT	26⅜6"	22"	Standard Non-Safety	90	90 psi	9 scfm	Zinc	52CF70	**52CF70**
	⅛" (F)NPT	38"	36"	Safety	90	90 psi	9 scfm	Zinc	52CF69	**52CF69**
	⅛" (F)NPT	50"	48"	Safety	90	90 psi	9 scfm	Zinc	52CF66	**52CF66**
Speedaire® Extreme Flow - Pistol Grip										
	½-20" UNF	18½"	12"	Safety	99	2.9 LbF	48 scfm	Aluminum	2TEJ1	**2TEJ1**
¼" (F)NPT	½-20" UNF	30½"	24"	Safety	99	2.9 LbF	48 scfm	Aluminum	2TEJ2	**2TEJ2**
	½-20" UNF	42½"	36"	Safety	99	2.9 LbF	48 scfm	Aluminum	2TEJ3	**2TEJ3**
	½-20" UNF	54½"	48"	Safety	99	2.9 LbF	48 scfm	Aluminum	2TEJ4	**2TEJ4**
Speedaire® High Flow - Pistol Grip										
	½-20" UNF	17½"	12"	Safety	97	1.92 LbF	35 scfm	Aluminum	2TEH3	**2TEH3**
	½-20" UNF	18¾"	12"	Safety	87	1.6 LbF	34 scfm	Aluminum	2TEH7	**2TEH7**
¼" (F)NPT	½-20" UNF	28½"	24"	Safety	97	1.92 LbF	35 scfm	Aluminum	2TEH4	**2TEH4**
	½-20" UNF	30¾"	24"	Safety	87	1.6 LbF	34 scfm	Aluminum	2TEH8	**2TEH8**
	½-20" UNF	41½"	36"	Safety	97	1.92 LbF	35 scfm	Aluminum	2TEH5	**2TEH5**
Speedaire® Lever										
	¼" (F)NPT	26"	24"	Rubber	96	90 psi	9 scfm	Chrome Plated Zinc	22YK54	**22YK54**
¼" (F)NPT	¼" (F)NPT	38"	36"	Rubber	94.5	90 psi	9 scfm	Chrome Plated Zinc	22YK55	**22YK55**
	¼" (F)NPT	50"	48"	Rubber	95	90 psi	9 scfm	Chrome Plated Zinc	22YK56	**22YK56**
	M14 x 1" (F)NPT	15¼ to 19⅜"	8⅞" to 12¾"	Rubber	92	150 psi	13 scfm	Polyoxymethylene	52KD73	**52KD73**

Find replacement nozzles at Grainger.com®.

Maximum Power Heavy-Duty Air Guns

GUARDAIR

- Inlet: ¾" (F)NPT
- Max. dBA: 121

Force 5®—Venturi nozzle draws surrounding ambient air through the side ports to increase air volume at the tip for improved cleaning.Ergonomic handle helps protect trigger from abuse and wear. Dead-man trigger for safer operation. Adjustable auxiliary handle allows 2-handed operation for greater control.

Inforcer®—Designed as the "in-line" version of Force 5, the inforcer excels in heavy-duty industrial cleaning applications. Dead-man trigger can be activated with palm or finger. Adjustable auxiliary handle allow 2-handed operation for greater control. Venturi, chisel point, and quiet force nozzles, sold separately.



Overall Length	Extension Size	Air Gun Inlet Size	Air Consumption	Body Material	FORCE 5 Body Style	FORCE 5 Mfr. Model	FORCE 5 Item No.	INFORCER Body Style	INFORCER Mfr. Model	INFORCER Item No.
Steel Chisel Point										
34"	24"	¾" (F)NPT	185 scfm	Steel	—	—	—	In Line	INF5024SS	**1CJG1**
46"	36"	¾" (F)NPT	185 scfm	Steel	—	—	—	In Line	INF5036SS	**5GAV5**
58"	48"	¾" (F)NPT	185 scfm	Steel	—	—	—	In Line	INF5048SS	**1CJG2**
70"	60"	¾" (F)NPT	185 scfm	Steel	—	—	—	In Line	INF5060SS	**5GAV7**
82"	72"	¾" (F)NPT	185 scfm	Steel	—	—	—	In Line	INF5072SS	**1CJG3**
Venturi										
34"	24"	¾" (F)NPT	185 scfm	Aluminum	Pistol Grip	F5024AA	**1CJF4**	In Line	INF5024AA	**1CJF7**
46"	36"	¾" (F)NPT	185 scfm	Aluminum	—	—	—	In Line	INF5036AA	**5GAV4**
58"	48"	¾" (F)NPT	185 scfm	Aluminum	Pistol Grip	F5048AA	**1CJF5**	In Line	INF5048AA	**1CJF8**
70"	60"	¾" (F)NPT	185 scfm	Aluminum	—	—	—	In Line	INF5060AA	**5GAV6**
82"	72"	¾" (F)NPT	185 scfm	Aluminum	Pistol Grip	F5072AA	**1CJF6**	In Line	INF5072AA	**1CJF9**
Venturi Quiet Force										
34"	24"	¾" (F)NPT	140 scfm	Aluminum	Pistol Grip	F5024AQF	**5GAV8**	In Line	INF5024AQF	**5GAW3**
46"	36"	¾" (F)NPT	140 scfm	Aluminum	Pistol Grip	F5036AQF	**5GAV9**	In Line	INF5036AQF	**5GAW4**
58"	48"	¾" (F)NPT	140 scfm	Aluminum	Pistol Grip	F5048AQF	**5GAW0**	In Line	INF5048AQF	**5GAW5**
70"	60"	¾" (F)NPT	140 scfm	Aluminum	Pistol Grip	F5060AQF	**5GAW1**	In Line	INF5060AQF	**5GAW6**
82"	72"	¾" (F)NPT	140 scfm	Aluminum	Pistol Grip	F5072AQF	**5GAW2**	In Line	INF5072AQF	**5GAW7**

Syphon Spray Guns

SPEEDAIRE GUARDAIR

- ¼" (F)NPT inlet

For spraying liquids such as oil, solvents, insecticides, and coatings.

Syphon Spray Guns—Adjustable nozzle tip controls spray pattern. No. 3MNT5 has a 6-ft. PVC spray tube with brass sinker. No. 1RF86 features a 12" extension and an adjustable spray tip. Nos. 3MNT5 and 1RF86 deliver up to 16 gal./hr.

Pneumatic Oil Gun—Includes 12" extension with adjustable spray tip and a 1-qt. screw-on container.

Water Jet Cleaning Gun—Combines compressed air and liquid spray for effective cleaning; delivers up to 22 gal./hr. of nonflammable fluids, including water, detergent, or degreaser. Each include 18" extension, air inlet with ¾" garden hose liquid inlet. No. 3MNT7 also includes, water adjustment/shutoff valve, 6-ft. feed tube with brass sinker, and a ¼" industrial interchange coupler for multiple syphon options.



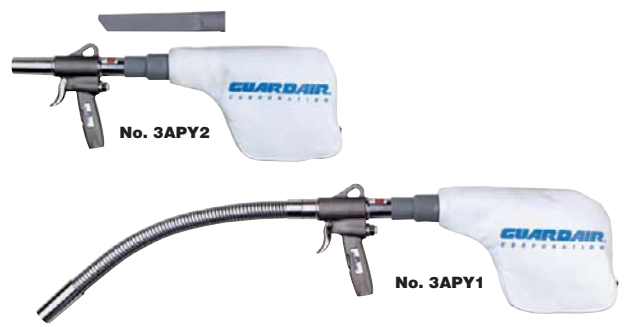
Air Gun Inlet Size	Overall Length	Body Material	Brand	Mfr. Model	Item No.
Syphon Spray Guns					
¼" (F)NPT	8¼"	Aluminum/Steel	Speedaire	22YK57	**22YK57**
¼" (F)NPT	9"	Aluminum	Guardair	79SG	**3MNT5**
¼" (F)NPT	19"	Aluminum	Guardair	79SG012	**1RF86**
Pneumatic Oil Gun					
¼" (F)NPT	16¼"	Aluminum	Guardair	83SG	**5GAW9**
Water Jet Cleaning Gun					
¼" (F)NPT	20"	Aluminum	Guardair	79WG	**19A851**
¼" (F)NPT	20½"	Aluminum	Guardair	79WGD	**3MNT7**

Pneumatic Gun Vacs

GUARDAIR

- ¼" FNPT air inlet (bottom or rear)
- Cast-aluminum body

Connect to any compressed air supply. Trigger latch with hanging eyelet. High-filtration collection bag captures fine minerals and an internal stiffener eliminates bag sag and tear. Nos. 3APY2 and 3APY3 feature a tapered inlet that can accept standard 1¼" vacuum accessories. No. 3APY1 has a flexible 18" tubular inlet for hard-to-reach applications.



Description	Air Consumption	Mfr. Model	Item No.
Gun Vac Kits			
Gun Vac with 9" Crevice Tool, High Filtration Collection Bag	29 scfm	1500	**3APY2**
Gun Vac Kit with 16" Flexible Steel Extended Nozzle, High Filtration Collection Bag, Internal Bag Stiffener	29 scfm	1548	**3APY1**
Deluxe Gun Vac Kit with (5) Pieces Accessory Set, High Filtration Collection Bag	29 scfm	1510	**3APY3**

Tire Inflators

SPEEDAIRE

No. 1KUF9 is a dual-foot chuck with a 6" extension tube and 2 chucks.



Color/ Finish	Calibration	Includes	Item No.
Chuck Inflators			
Chrome	0 to 100 psi	Air Chuck, Rubber Hose, Indicator Gauge, Inflating Gun Body	**22YL02**
Polish	0 to 100 psi	Dual Chuck, Rubber Hose, Bayonet Type Inflator Gauge, Inflating Gun Body	**22YL03**
Black	0 to 160 psi	Dual Chuck, Rubber Hose, Gauge, Inflating Gun Body	**22YL04**

Description	Material	Thread Size	Item No.
Chucks			
Straight	Brass/Steel	¼ (F)NPT	**1KUH2** †
Straight	Zinc	¼"(F)NPT	**22YK96**

Thread Size	Material	Item No.
Dual-Foot Extension		
¼ (F)NPT	Brass/Steel	**1KUF9** †

† Limited Availability.

Pneumatic Couplers and Plugs

SPEEDAIRE

Universal Interchange fits Automotive, ARO® and Industrial Interchange plugs.


No. 30E655


No. 30E597


No. 30E627


No. 30E629


No. 30E595


No. 30E669


No. 30E679


No. 30E545


No. 30E703

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Max. Working Pressure @ 70°F	Hose Connec.	Material†	Item No.
ARO Interchange								
NPT								
⅜ in	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E559**
¼ in	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E556**
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Alum	**30E656**
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Alum	**30E654**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	304 SS	**30E554**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E557**
	½ in	—	Plug	—	300 psi	(F)NPT	304 SS	**30E555**
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	**30E558**
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Alum	**30E653**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Alum	**30E655**
Automotive								
¼ in	¼ in	¼"-18	Plug	—	150 psi	(M)NPT	Steel	**30E597**
Automotive Interchange								
Hose Barb								
¼ in	⅜ in	—	Plug	⅜"	300 psi	Hose Barb	Steel	**30E740**
NPT								
⅜ in	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	**30E737**
	⅜ in	⅜"-18	Plug	—	400 psi	(M)NPT	304 SS	**30E568**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	**30E738**
¼ in	¼ in	¼"-18	Plug	—	400 psi	(M)NPT	304 SS	**30E564**
	¼ in	¼"-18	Plug	—	400 psi	(M)NPT	304 SS	**30E569**
	¼ in	¼"-18	Plug	—	400 psi	(F)NPT	304 SS	**30E561**
	⅜ in	—	Plug	—	400 psi	(M)NPT	304 SS	**30E566**
	⅜ in	—	Plug	—	400 psi	(F)NPT	304 SS	**30E562**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	**30E732**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	**30E736**
	½ in	½"-14	Plug	—	400 psi	(M)NPT	304 SS	**30E567**
⅜ in	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	**30E743**
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	**30E745**
¼ in	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Steel	**30E742**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	**30E744**
Global Style Hi-Flow								
Hose Barb								
¼ in	¼ in	—	Plug	¼"	300 psi	Push On Hose Barb	Alum	**30E627**
	¼ in	—	Plug	¼"	300 psi	Hose Barb	Alum	**30E621**
	⅜ in	—	Plug	⅜"	300 psi	Push On Hose Barb	Alum	**30E628**
	⅜ in	—	Plug	⅜"	300 psi	Hose Barb	Alum	**30E622**
	¼ in	—	Socket	¼"	250 psi	Push On Hose Barb	Alum	**30E629**
	¼ in	—	Socket	¼"	250 psi	Hose Barb	Alum	**30E619**
	⅜ in	—	Socket	⅜"	250 psi	Push On Hose Barb	Alum	**30E630**
	⅜ in	—	Socket	⅜"	250 psi	Hose Barb	Alum	**30E620**
Industrial								
NPT								
¼ in	¼ in	¼"-18	Plug	—	150 psi	(M)NPT	Steel	**30E595**
Industrial Interchange								
Hose Barb								
½ in	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	**30E672**
	½ in	—	Plug	—	300 psi	Hose Barb	Steel	**30E673**
⅜ in	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	**30E671**
¼ in	¼ in	—	Plug	—	300 psi	Push On Hose Barb	Steel	**30E674**
	¼ in	—	Plug	—	300 psi	Hose Barb	Steel	**30E669**
	⅜ in	—	Plug	—	300 psi	Push On Hose Barb	Steel	**30E675**
	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	**30E670**
½ in	½ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E695**
⅜ in	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E694**
¼ in	¼ in	—	Socket	—	300 psi	Push On Hose Barb	Steel	**30E676**
	¼ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E697**
	¼ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E679**
	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E698**
	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	**30E680**
NPT								
⅜ in	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	**30E660**
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	**30E701**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E551**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	**30E702**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	**30E706**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	**30E661**
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	**30E552**
¼ in	⅛ in	⅛"-27	Plug	—	300 psi	(M)NPT	Steel	**30E658**
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	304 SS	**30E545**
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E548**
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Brass	**30E707**
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Brass	**30E708**
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	**30E657**
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	**30E703**
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	**30E696**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	304 SS	**30E546**
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	**30E549**
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	**30E667**
	½ in	½"-14	Plug	—	300 psi	(F)NPT	304 SS	**30E547**
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	**30E550**

† STL/Alum = Steel/Aluminum, SS = Stainless Steel, Alum = Aluminum, B/S = Brass/Steel.


No. 30E530


No. 30E677


No. 30E727


No. 30E541


No. 30E536

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Max. Working Pressure @ 70°F	Hose Connec.	Material†	Item No.
½ in	½ in	½"-14	Socket	—	250 psi	(F)NPT	Steel	**30E528**
	½ in	½"-14	Socket	—	232 psi	(F)NPT	Steel	**30E531**
	½ in	½"-14	Socket	—	250 psi	(M)NPT	Steel	**30E534**
	½ in	½"-14	Socket	—	300 psi	(F)NPT	Steel	**30E683**
	½ in	½"-14	Socket	—	300 psi	(M)NPT	Steel	**30E690**
	¾ in	¾"-14	Socket	—	300 psi	(F)NPT	Steel	**30E684**
	¾ in	¾"-14	Socket	—	300 psi	(M)NPT	Steel	**30E691**
⅜ in	¼ in	—	Socket	—	232 psi	(M)NPT	Steel	**30E526**
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Alum	**30E606**
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Steel	**30E681**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	**30E688**
	⅜ in	—	Socket	—	232 psi	(M)NPT	Steel	**30E527**
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Alum	**30E607**
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Alum	**30E611**
	⅜ in	⅜"-18	Socket	—	232 psi	(F)NPT	Steel	**30E530**
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	**30E532**
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	**30E535**
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	**30E682**
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	**30E689**
¼ in	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Alum	**30E608**
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Alum	**30E604**
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Brass	**30E709**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Brass	**30E710**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Brass, Steel	**30E677**
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Brass, Steel	**30E678**
	¼ in	¼"-18	Socket	—	175 psi	(M)NPT	Steel	**30E525**
	¼ in	¼"-18	Socket	—	175 psi	(F)NPT	Steel	**30E529**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	**30E692**
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	**30E711**
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Alum	**30E609**
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	**30E686**
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	**30E693**
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	**30E712**
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	**30E713**
	½ in	½"-14	Socket	—	300 psi	(F)NPT	Steel	**30E714**
	½ in	½"-14	Socket	—	300 psi	(M)NPT	Steel	**30E715**
Universal Interchange								
Hose Barb								
⅜ in	⅜ in	—	Socket	—	250 psi	Hose Barb	Steel	**30E729**
¼ in	¼ in	—	Socket	—	250 psi	Hose Barb	Steel	**30E727**
	⅜ in	—	Socket	—	250 psi	Hose Barb	Steel	**30E728**
NPT								
⅜ in	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Steel	**30E721**
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Steel	**30E725**
	⅜ in	⅜"-18	Socket	—	400 psi	(F)NPT	304 SS	**30E539**
	⅜ in	⅜"-18	Socket	—	400 psi	(M)NPT	304 SS	**30E543**
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	**30E726**
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	**30E722**
	½ in	½"-14	Socket	—	400 psi	(F)NPT	304 SS	**30E540**
	½ in	½"-14	Socket	—	400 psi	(M)NPT	304 SS	**30E544**
¼ in	¼ in	¼"-18	Socket	—	400 psi	(F)NPT	304 SS	**30E537**
	¼ in	¼"-18	Socket	—	400 psi	(M)NPT	304 SS	**30E541**
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Brass	**30E730**
	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Brass	**30E731**
	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Steel	**30E719**
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Steel	**30E724**
	⅜ in	⅜"-18	Socket	—	400 psi	(F)NPT	304 SS	**30E538**
	⅜ in	⅜"-18	Socket	—	400 psi	(M)NPT	304 SS	**30E542**
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	**30E720**
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	**30E723**

Pipe Size	Body Size	Material	Barb Size	Includes	Item No.
Coupler and Plug Kits					
Automotive Interchange					
¼"	¼"	304 Stainless Steel	¼"	(1) Quick Coupler, (2) Plugs	**30E536**
Hi Flow Interchange					
¼"	¼"	304 Stainless Steel	¼"	(1) Quick Coupler, (2) Plugs	**30E591**

Pipe Size	Hose Connec.	Body Size	Max. Pressure	Temp. Range	Item No.
Swivel Connector					
¼"	(F)NPT	¼"	150 psi	-40° to 150°F	**30E592**
	(M)NPT	¼"	150 psi	-20° to 150° F	**30E593**

COMPRESSED AIR System Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient compressed air system projects.

> Visit **grainger.com/energyservices**

Pneumatic Coupling Plugs and Sockets

ARO®—ARO steel quick-connect air coupling plugs are the male end of coupling sets. Also called nipples, they're inserted into the coupling bodies (female ends). Steel is hard and resilient with a wide working temperature range.

Industrial—Connect with industrial interchange nipples. Push-to-connect sleeve, makes connect easy with one hand.

Lincoln—Interchangeable with Lincoln Long Stem couplers.

Tru-Flate-Automotive—For the automotive industry. Grip-ring sleeve version has a knurled diameter, providing easy operation when gloves are worn.

Universal—Permits multiple series nipples to mate with one coupler. Universal Interchange fits Automotive, ARO® and Industrial Interchange plugs.



No. 30N174



No. 30N165



No. 30N386



No. 30N362



No. 30N363



No. 30N280



No. 30N303



No. 30N302

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
ARO 210 Interchange								
Hose Barb								
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N173**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N174**
	¼ in	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N165**
	⅜ in	—	Socket	—	Sleeve Type	Push On	Brass	**30N166**
NPT								
¼ in	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N171**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N172**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	**30N169**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N168**
	½ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N167**
Automotive Tru-Flate Interchange								
Hose Barb								
½ in	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N387**
⅜ in	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N385**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N386**
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N388**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N389**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N390**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N391**
½ in	—	—	Socket	—	Sleeve Type	Hose Barb	Steel	**30N354**
	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N352**
	⅜ in	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N353**
⅜ in	—	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N344**
¼ in	—	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	**30N362**
	—	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N363**
	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	**30N364**
	—	—	Socket	⅜"	Sleeve Type	Push On	Brass	**30N365**
NPT								
¾ in	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N299**
	¾ in	¾"-14	Plug	—	—	(F)NPT	Steel	**30N298**
½ in	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N282**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N377**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N380**
	½ in	½"-14	Plug	—	—	(M)NPT	Brass	**30N274**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N384**
	¾ in	¾"-14	Plug	—	—	(M)NPT	Steel	**30N288**
	¾ in	¾"-14	Plug	—	—	(F)NPT	Steel	**30N297**
⅜ in	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N281**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N376**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N379**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N383**
¼ in	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Steel	**30N280**
	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N375**
	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Steel	**30N378**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Brass	**30N392**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N393**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N269**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N292**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N381**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N293**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N382**
½ in	½ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N360**
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Brass	**30N374**
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	**30N359**
	½ in	¾"-14	Socket	—	Sleeve Type	(F)NPT	Steel	**30N361**
	¾ in	¾"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N358**
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N346**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N349**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N342**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N348**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N347**
¼ in	⅛ in	⅛"-27	Socket	—	Sleeve Type	(F)NPT	Brass	**30N370**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	**30N369**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N368**
Industrial Interchange								
Hose Barb								
¾ in	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N311**
	¾ in	—	Plug	¾"	—	Hose Barb	Steel	**30N310**
	1 in	—	Plug	1"	—	Hose Barb	Steel	**30N312**
½ in	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N303**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N304**
	½ in	—	Plug	—	—	Push On	Steel	**30N309**
	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N307**
	¾ in	—	Plug	¾"	—	Hose Barb	Steel	**30N308**
⅜ in	¼ in	—	Plug	¼"	—	Push On	Steel	**30N302**
	⅜ in	—	Plug	—	—	Push On	Steel	**30N306**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N305**
	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N313**
	½ in	—	Plug	½"	—	Push On	Steel	**30N314**
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N315**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N317**
	5⁄16 in	—	Plug	5⁄16"	—	Hose Barb	Steel	**30N316**
	⅜ in	—	Plug	—	—	Push On	Steel	**30N319**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N318**



No. 30N193



No. 30N273

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
¾ in	¾ in	—	Socket	¾"	Push to Connect	Hose Barb	Brass	**30N217**
	1 in	—	Socket	1"	Push to Connect	Hose Barb	Brass	**30N218**
½ in	—	—	Socket	¾"	Sleeve Type	Hose Barb	Steel	**30N356**
	½ in	—	Socket	½"	Push to Connect	Hose Barb	Brass	**30N209**
	½ in	—	Socket	½"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N335**
	½ in	—	Socket	½"	Safety Vent and Push To Connect	Push On	Steel	**30N337**
	½ in	—	Socket	½"	Sleeve Type	Push On	Steel	**30N355**
	¾ in	—	Socket	¾"	Push to Connect	Hose Barb	Brass	**30N210**
⅜ in	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N343**
	—	—	Socket	½"	Sleeve Type	Hose Barb	Steel	**30N345**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N202**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N203**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N242**
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N248**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N329**
	⅜ in	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N249**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Push On	Steel	**30N331**
	½ in	—	Socket	—	Sleeve Type	Hose Barb	Steel	**30N250**
	½ in	—	Socket	½"	Push to Connect	Hose Barb	Brass	**30N244**
	½ in	—	Socket	½"	Push to Connect	Push On	Brass	**30N246**
¼ in	¼ in	—	Socket	¼"	Push to Connect	Hose Barb	Brass	**30N192**
	¼ in	—	Socket	¼"	Push to Connect	Hose Barb	Brass	**30N231**
	¼ in	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	**30N256**
	¼ in	—	Socket	¼"	Push to Connect	Push On	Brass	**30N193**
	¼ in	—	Socket	¼"	Push to Connect	Push On	Brass	**30N233**
	¼ in	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N257**
	¼ in	—	Socket	¼"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N321**
	¼ in	—	Socket	¼"	Safety Vent and Push To Connect	Push On	Steel	**30N323**
	5⁄16 in	—	Socket	5⁄16"	Sleeve Type	Hose Barb	Brass	**30N258**
	⅜ in	—	Socket	—	Sleeve Type	Push On	Brass	**30N260**
	⅜ in	—	Socket	⅜"	Push to Connect	Hose Barb	Brass	**30N235**
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	**30N259**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N194**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N237**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N325**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Push On	Steel	**30N327**
NPT								
¾ in	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N290**
	¾ in	¾"-14	Plug	—	—	(M)NPT	Steel	**30N289**
	1 in	1"-11-1/2	Plug	—	—	(M)NPT	Steel	**30N291**
	1 in	1"-11-1/2	Plug	—	—	(F)NPT	Steel	**30N301**
½ in	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N279**
	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N287**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N296**
⅜ in	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N276**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N278**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N271**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N285**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N294**
	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N286**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N295**
¼ in	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N277**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Brass	**30N273**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N275**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N283**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N270**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N284**
	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Brass	**30N226**
⅛ in	⅛ in	⅛"-27	Plug	—	Push to Connect	(M)NPT	Brass	**30N227**
	⅛ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N228**
¾ in	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N221**
	¾ in	¾"-14	Socket	—	Push to Connect	(M)NPT	Brass	**30N216**
	¾ in	¾"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N220**
	1 in	1"-11-1/2	Socket	—	Push to Connect	(M)NPT	Brass	**30N219**
	1 in	1"-11-1/2	Socket	—	Push to Connect	(F)NPT	Brass	**30N222**
½ in	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	**30N211**
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	**30N214**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N357**
	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N213**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Brass	**30N373**
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	**30N336**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N351**
	¾ in	¾"-14	Socket	—	Push to Connect	(M)NPT	Brass	**30N212**
	¾ in	¾"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N215**

CONTINUED

CONTINUED

Parker

Pneumatic Coupling Plugs and Sockets



No. 30N197



No. 30N261



No. 30N320

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
⅜ in	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N204
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N207
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N238
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N239
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Steel	30N251
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Steel	30N254
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N201
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N206
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N240
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N241
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N267
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N268
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N372
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	30N247
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	30N253
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N328
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N330
	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N205
	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	30N243
	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N245
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	30N252
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	30N255
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N332
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	30N350



No. 30N223



No. 30N340



No. 30N339



No. 30N394

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
¼ in	⅛ in	⅛"-27	Socket	—	Sleeve Type	(M)NPT	Brass	30N262
	⅛ in	⅛"-27	Socket	—	Sleeve Type	(F)NPT	Brass	30N265
	⅛ in	⅛"-27	Socket	—	Sleeve Type	(M)NPT	Brass	30N367
	¼ in	⅛"-27	Socket	—	Push to Connect	(F)NPT	Brass	30N198
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N195
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N197
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N230
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N232
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N261
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N264
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N366
	¼ in	¼"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N320
	¼ in	¼"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N322
	¼ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N196
	¼ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N199
	¼ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N326
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N234
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N236
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N263
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N266
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N371
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N324
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N334
	¾ in	¾"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N333
⅛ in	⅛ in	⅛"-27	Socket	—	Push to Connect	(M)NPT	Brass	30N223
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N224
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N225
Lincoln Long Interchange								
¼ in	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	30N340
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	30N341
Lincoln Longstem								
¼ in	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N338
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N339
Tru-Flate/Automotive								
½ in	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N208
Universal Pneumatic Coupler								
¼ in	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N394
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N395
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N396
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N397

Pneumatic Couplers and Plugs

EATON
Authorized Distributor
Hansen™



No. 31C962



No. 31C955



No. 31D007



No. 31C960



No. 31C977



No. 31C998



No. 31D008

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
1000/400/500 Series, Industrial Interchange								
Hose Barb								
½ in	½ in	—	Plug	½"	Sleeve Type	Hose Barb	Steel	31C996
⅜ in	½ in	—	Plug	½"	Sleeve Type	Hose Barb	Steel	31C995
¼ in	¼ in	—	Plug	¼"	Sleeve Type	Push-On Hose Barb	Steel	31C997
½ in	½ in	—	Socket	½"	Sleeve Type	Hose Barb	Brass	31C974
⅜ in	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	31C959
	¼ in	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	31C957
¼ in	¼ in	—	Socket	¼"	Sleeve Type	Push-On Hose Barb	Brass	31C975
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	31C958
NPT								
½ in	½ in	½"-14	Plug	—	Sleeve Type	(F)NPT	Steel	31C988
	¾ in	¾"-14	Plug	—	Sleeve Type	(F)NPT	Steel	31C989
⅜ in	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C986
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C987
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31C994
¼ in	⅛ in	⅛"-27	Plug	—	Sleeve Type	(M)NPT	Carbon Steel	31C963
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	303 Stainless Steel	31C983
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	303 Stainless Steel	31C990
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Brass	31C984
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Brass	31C991
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C985
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31C992
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Carbon Steel	31C962
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(M)NPT	Carbon Steel	31C993
½ in	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Brass	31C956
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Brass	31C967
	¾ in	¾"-14	Socket	—	Sleeve Type	(F)NPT	Brass	31C968
	¾ in	¾"-14	Socket	—	Sleeve Type	(M)NPT	Brass	31C973
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C964
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C970
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C966
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C972
¼ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C955
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C969
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C965
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C971
210/310 SERIES ARO Interchange								
¼ in	⅛ in	⅛"-27	Plug	—	Sleeve Type	(M)NPT	Steel	31D005
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31D006
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D007
3000/4000/5000/6000 Series Industrial Interchange								
½ in	½ in	½"-14	Socket	—	Push To Connect	(M)NPT	Brass	31C961
	½ in	½"-14	Socket	—	Push To Connect	(F)NPT	Brass	31C979
⅜ in	⅜ in	⅜"-18	Socket	—	Push To Connect	(M)NPT	Brass	31C976
	⅜ in	⅜"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C978
¼ in	¼ in	¼"-18	Socket	—	Push-to-Connect	(M)NPT	Brass	31C960
	¼ in	¼"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C977

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
Auto-Flo 23 Universal Series Industrial, ARO210, Truflate Interchange								
Hose Barb								
⅜ in	⅜ in	—	Socket	⅜"	Push To Connect	Hose Barb	Brass	31D004
¼ in	¼ in	¼"-18	Socket	¼"	Push To Connect	Hose Barb	Brass	31D003
NPT								
⅜ in	⅜ in	⅜"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C999
	⅜ in	⅜"-18	Socket	—	Push To Connect	(M)NPT	Brass	31D002
¼ in	¼ in	¼"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C998
	¼ in	¼"-18	Socket	—	Push To Connect	(M)NPT	Brass	31D001
Auto-Flo 23 Universal Series Truflate Interchange								
⅜ in	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31D012
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D009
	¼ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D010
¼ in	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Carbon steel	31D008
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Carbon steel	31D011
Full Bore Series Industrial Interchange								
Hose Barb								
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Carbon steel	31C981
NPT								
½ in	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Carbon steel	31C980
	½ in	½"-14	Socket	½"	Sleeve Type	Hose Barb	Carbon steel	31C982

Pneumatic Couplers and Plugs



No. 35YK84

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Max. Working Pressure @ 70°F	Hose Connec.	Material	Brand	Item No.
—								
NPT								
¼ in	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Amflo	**35YK84**
	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Amflo	**35YK85**
	¼ in	¼"-18	Socket	175 psi	(F)NPT	Composite	Dynabrade	**13F694**
	¼ in	¼"-18	Socket	175 psi	(M)NPT	Composite	Dynabrade	**13F695**
Automotive Interchange								
Hose Barb								
⅜ in	⅜ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGZ0**
¼ in	¼ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGY8**
	⅜ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGY9**
NPT								
⅜ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY1**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY5**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY3**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY7**
¼ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY0**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY4**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY2**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY6**
⅜ in	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGX7**
	⅜ in	⅜"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGX9**
¼ in	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGX6**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGX8**
Industrial								
Hose Barb								
½ in	¼ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT9**
⅜ in	⅜ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT8**
¼ in	¼ in	—	Socket	500 psi	Push On Hose Barb	Brass	Dixon	**5CGU0**
	¼ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT7**
NPT								
⅜ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGV9**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	303 Stainless Steel	Dixon	**5CGW2**
¼ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	303 Stainless Steel	Dixon	**5CGV7**
	¼ in	¼"-18	Plug	300 psi	(F)NPT	Brass	Dixon	**5CGV8**
	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGV6**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW0**

**PTC = Push to Connect. †303 SS = 303 Stainless Steel.*



No. 13F695



No. 5CGU0



No. 5CGV6



No. 5CGR3



No. 5CGU1



No. 5CGW7



No. 13C677

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Max. Working Pressure @ 70°F	Hose Connec.	Material	Brand	Item No.
½ in	½ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR8**
	½ in	½"-14	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU5**
	½ in	½"-14	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGV0**
	½ in	½"-14	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT6**
	¾ in	¾"-14	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT5**
⅜ in	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU2**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU7**
	¼ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR5**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT2**
	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU4**
	⅜ in	⅜"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU9**
	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR7**
	½ in	½"-14	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT4**
¼ in	¼ in	¼"-18	Socket	500 psi	(F)NPT	Brass	Dixon	**5CGR3**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Brass	Dixon	**5CGT0**
	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU1**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU6**
	¼ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR4**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT1**
	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Brass	Dixon	**5CGR6**
	⅜ in	⅜"-18	Socket	500 psi	(M)NPT	Brass	Dixon	**5CGT3**
	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU3**
	⅜ in	⅜"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU8**
Industrial Interchange								
½ in	½ in	½"-14	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGX5**
	½ in	½"-14	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW3**
	¾ in	¾"-14	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW4**
⅜ in	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGX4**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGX3**
¼ in	⅛ in	⅛"-27	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGW7**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGW9**
	¼ in	¼"-18	Plug	300 psi	(M)NPT	Brass	Dixon	**5CGX0**
	¼ in	¼"-18	Plug	230 psi	(M)NPT	Steel	Dynabrade	**13C677**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGW8**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGX2**
½ in	½ in	½"-14	Socket	300 psi	(F)NPT	Steel	Foster	**32V282**
⅜ in	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Steel	Foster	**32V277**
Push/Pull								
½ in	½ in	½"-14	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY74**
	½ in	½"-14	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY77**
⅜ in	⅜ in	⅜"-18	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY73**
	⅜ in	⅜"-18	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY76**
¼ in	¼ in	¼"-18	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY72**
	¼ in	¼"-18	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY75**



No. 5CGH3



No. 5CGH7

Bowes-Style Couplers

Body Size	Max. Pressure	Material	Coupler Plug HOSE BARB Barb Size	HOSE BARB Item No.	Coupler Plug HOSE BARB LOCKING HEAD Barb Size	LOCKING HEAD Item No.	COUPLER PLUG LOCKING HEAD Barb Size	LOCKING HEAD Item No.	Coupler Body HOSE BARB PUSH TO CONNECT Barb Size	PUSH TO CONNECT Item No.
½"	500 psi	Steel	½"	**5CGH3**	½"	**5CGK7**	—	—	½"	**5CGH7**
½"	500 psi	Steel	¾"	**5CGH4**	¾"	**5CGK8**	—	—	¾"	**5CGH8**
½"	300 psi	Brass	½"	**5CGH5**	½"	**5CGK9**	¾"	**5CGL0**	½"	**5CGH9**
½"	300 psi	Brass	¾"	**5CGH6**	—	—	—	—	¾"	**5CGJ0**

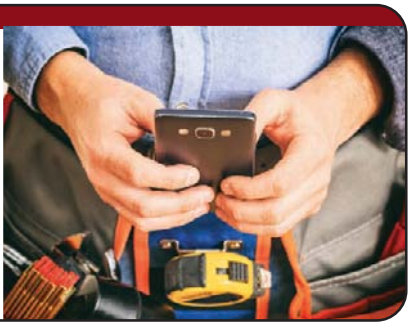
Body Size	Max. Pressure	Material	Pipe Size	Coupler Body (M)NPT PUSH TO CONNECT Item No.	(F)NPT PUSH TO CONNECT Item No.	Coupler Plug (M)NPT Item No.	(F)NPT Item No.	(M)NPT LOCKING HEAD Item No.
½"	300 psi	Brass	½"	**5CGJ7**	**5CGK5**	**5CGJ3**	**5CGK1**	**5CGL3**
½"	300 psi	Brass	¾"	**5CGJ8**	**5CGK6**	**5CGJ4**	**5CGK2**	**5CGL4**
½"	500 psi	Steel	½"	**5CGJ5**	**5CGK3**	**5CGJ1**	**5CGJ9**	**5CGL1**
½"	500 psi	Steel	¾"	**5CGJ6**	**5CGK4**	**5CGJ2**	**5CGK0**	**5CGL2**

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



General Duty Hose Reels

REELCRAFT SPEEDAIRE

- Permanently lubricated bearings
- Vibration-free, self-locking latch
- Corrosion-resistant, powder-coated finish
- Hose included

Locking Latch—Traditional latches require the hose to be pulled out until ratchet/latch "clicks" so reel can hold position.

Reelcraft® Quiet Latch—Quiet latch are designed for reliable quiet operation. Just pull hose out to desired length, then allow hose to rewind on reel a half turn for latch engagement. Ideal for noisy environments. RT series are considered hybrid and feature a lighter, spring-driven hose reel with composite spool designed for applications that are less demanding.

Speedaire®—Hose locks in place for additional safety.

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Brand	Mfr. Model	Item No.	
Low-Pressure											
Air, Water											
¼ in	25 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Reelcraft	B4425 OLP	**38EE40**	
	25 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J06	**437J06**	
	25 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J21	**437J21**	
	25 ft	¼ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J25	**437J25**	
	35 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Reelcraft	B4435 OLP	**38EE41**	
	35 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ36	**45UZ36**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ37	**45UZ37**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	Rubber	210 °F	300 psi	Locking	Speedaire	2CUA3	**2CUA3**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J08	**437J08**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J11	**437J11**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J20	**437J20**	
⅜ in	25 ft	½ in NPT(F)	¼ in (M)NPT	PVC	150 °F	300 psi	Quiet Latch	Reelcraft	4625 OLPSMR	**12U319**	*
	25 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ32	**45UZ32**	
	25 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Blocking	Speedaire	49AE03	**49AE03**	
	35 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ34	**45UZ34**	
	35 ft	⅜ in (F)NPT	¼ in (M)NPT	Rubber	210 °F	300 psi	Locking	Speedaire	2CUA5	**2CUA5**	
	35 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J07	**437J07**	
	50 ft	½ in NPT(F)	¼ in (M)NPT	PVC	150 °F	300 psi	Quiet Latch	Reelcraft	5650 OLPSMR	**12U320**	*
	50 ft	⅜ in (F)NPT	⅜ in (M)NPT	PVC	150 °F	300 psi	Quiet Latch	Reelcraft	5650 OLP-SE	**4HK89**	
	50 ft	⅜ in (F)NPT	⅜ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ33	**45UZ33**	
	50 ft	½ in (F)NPT	¼ in (M)NPT	Rubber	210 °F	300 psi	Locking	Speedaire	2CUA7	**2CUA7**	
	50 ft	⅜ in (F)NPT	¼ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	49AE04	**49AE04**	
½ in	25 ft	⅜ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Quiet Latch	Reelcraft	A5825 OLPSMR	**12U321**	*
	25 ft	⅜ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J10	**437J10**	
	25 ft	½ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J22	**437J22**	
	35 ft	⅜ in (F)NPT	⅜ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	45UZ35	**45UZ35**	
	35 ft	⅜ in (F)NPT	⅜ in (M)NPT	PVC	150 °F	300 psi	Blocking	Speedaire	49AE05	**49AE05**	
	35 ft	⅜ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J13	**437J13**	
	35 ft	½ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	437J28	**437J28**	
	50 ft	½ in (F)NPT	½ in (M)NPT	PVC	150 °F	300 psi	Quiet Latch	Reelcraft	A5850 OLPSMR	**12U322**	*
	50 ft	⅜ in (F)NPT	⅜ in (M)NPT	PVC	150 °F	300 psi	Locking	Speedaire	49AE06	**49AE06**	
	50 ft	⅜ in (F)NPT	½ in (M)NPT	Hybrid Polymer	150 °F	300 psi	Constant Tension	Speedaire	440G24	**440G24**	
Medium-Pressure											
Oil											
⅜ in	25 ft	⅜ in (F)NPT	⅜ in (M)NPT	SAE 100 R1 T	210 °F	2,250 psi	Quiet Latch	Reelcraft	5625 OMP	**4Z314**	
	35 ft	⅜ in (F)NPT	⅜ in (M)NPT	SAE 100 R1 T	150 °F	1,000 psi	Locking	Reelcraft	RT635-OMP	**5KPA0**	
	50 ft	½ in (F)NPT	⅜ in (M)NPT	SAE 100 R1 T	150 °F	1,000 psi	Locking	Reelcraft	RT650-OMP	**5KPA1**	
½ in	35 ft	½ in (F)NPT	½ in (M)NPT	SAE 100 R1 T	150 °F	1,000 psi	Locking	Reelcraft	RT835-OMP	**4NA81**	
	35 ft	⅜ in (F)NPT	½ in (M)NPT	SAE 100 R1 T	210 °F	2,000 psi	Quiet Latch	Reelcraft	A5835 OMP	**4HK91**	
High-Pressure											
Grease											
¼ in	35 ft	⅜ in (F)NPT	¼ in (M)NPT	SAE 100 R2 T	150 °F	5,000 psi	Locking	Reelcraft	RT435-OHP	**4NA82**	
	35 ft	¼ in (F)NPT	¼ in (M)NPT	SAE 100 R2 T	210 °F	5,000 psi	Quiet Latch	Reelcraft	5435 OHP	**4HK88**	
⅜ in	25 ft	¼ in (F)NPT	¼ in (M)NPT	SAE 100 R2 T	210 °F	4,000 psi	Quiet Latch	Reelcraft	5625 OHP	**4NA83**	
	35 ft	½ in (F)NPT	⅜ in (M)NPT	SAE 100 R2 T	150 °F	4,000 psi	Locking	Reelcraft	RT635-OHP	**5KPA2**	
	50 ft	½ in (F)NPT	⅜ in (M)NPT	SAE 100 R2 T	150 °F	4,000 psi	Locking	Reelcraft	RT650-OHP	**5KPA3**	

**** Side mount.***



No. 49AE04



No. 4NA81

REELCRAFT SPEEDAIRE COXREELS

Heavy-Duty Reels

- Hose included

Spring-driven hose reels have high-grade steel base and arms. Mount to floor, wall, ceiling, workbench, or inside truck.

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Brand	Mfr. Model	Item No.
Low-Pressure										
Air, Mild Chemical, Water										
⅜"	75 ft.	½" (F)NPT	½" (F)NPT	PVC	150°F	300 psi	Locking	Reelcraft	HD76075 OLP	**448F71**
Air, Water										
¾"	25 ft.	¾" (F)NPT	¾" (M)NPT	PVC	150°F	250 psi	Locking	Speedaire	45UZ40	**45UZ40**
	25 ft.	¾" (F)NPT	¾"	PVC	150°F	250 psi	Locking	Reelcraft	7925 OLP	**4NA87**
⅜"	35 ft.	⅜" (F)NPT	¼" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA70	**6WA70**
¼"	50 ft.	⅜" (F)NPT	¼" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA69	**6WA69**
	50 ft.	¼" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Speedaire	437J26	**437J26**
⅜"	50 ft.	⅜" (F)NPT	⅜" (M)NPT	Rubber	210°F	300 psi	Locking	Speedaire	4UKX5	**4UKX5**
	50 ft.	⅜" (F)NPT	⅜" (M)NPT	Rubber	210°F	300 psi	Locking	Speedaire	4UKX5	**4UKX5**
	50 ft.	½" (F)NPT	¼" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA71	**6WA71**
	50 ft.	½" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	—	Reelcraft	7650 OLP	**2Z864**
½"	50 ft.	½" (F)NPT	½" (M)NPT	PVC	212°F	300 psi	Locking	Coxreels	EZ-SH-450-RH-BXB	**5FYD2**
	50 ft.	½" (F)NPT	½" (M)NPT	PVC	150°F	300 psi	Locking	Coxreels	EZ-SH-450	**16X540**
	50 ft.	½" (F)NPT	½" (M)NPT	PVC	212°F	300 psi	Locking	Coxreels	EZ-SH-450-RH-BXB	**5FYD2**
	50 ft.	½" (F)NPT	½" (M)NPT	PVC	150°F	300 psi	Locking	Coxreels	EZ-SH-450	**16X540**
	50 ft.	⅜" (F)NPT	½" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA72	**6WA72**
	50 ft.	½" (F)NPT	⅜" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA73	**6WA73**
	50 ft.	½" (F)NPT	½" (M)NPT	PVC	150°F	300 psi	Locking	Speedaire	437J29	**437J29**
	50 ft.	½" (F)NPT	⅜" (M)NPT	PVC	150°F	300 psi	—	Reelcraft	7850 OLP	**2Z865**
¾"	50 ft.	¾" (F)NPT	¾" (M)NPT	Rubber	210°F	250 psi	—	Speedaire	6WA75	**6WA75**



No. 45UZ40



No. 2Z864

CONTINUED



No. 2CUB6

REELCRAFT SPEEDAIRE COXREELS

Heavy-Duty Reels

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Brand	Mfr. Model	Item No.
⅜"	70 ft.	½" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Speedaire	45UZ41	**45UZ41**
	75 ft.	½" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Reelcraft	HD76070 OLP	**48ZW93**
½"	75 ft.	½" (F)NPT	⅜" (M)NPT	PVC	150°F	300 psi	Locking	Reelcraft	HD78075 OLP	**48ZW96**
	75 ft.	½" (F)NPT	½" (M)NPT	Rubber	210°F	300 psi	Locking	Speedaire	2CUB8	**2CUB8**
¾"	75 ft.	¾" (F)NPT	¾" (M)NPT	Rubber	210°F	300 psi	Locking	Speedaire	2CUC1	**2CUC1**
⅜"	100 ft.	½" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Reelcraft	HD76100 OLP	**48ZW95**
	100 ft.	½" (F)NPT	⅜" (M)NPT	Rubber	210°F	300 psi	Locking	Speedaire	2CUB6	**2CUB6**
½"	100 ft.	½" (F)NPT	½" (M)NPT	Rubber	210°F	300 psi	—	Speedaire	6WA74	**6WA74**
Medium-Pressure										
Air, Water										
½"	50 ft.	½" (F)NPT	½" (M)NPT	Rubber	150°F	2000 psi	Locking	Speedaire	45UZ42	**45UZ42**
Oil										
½"	50 ft.	½" (F)NPT	½" (M)NPT	SAE 100 R1 T	210°F	2000 psi	—	Reelcraft	7850 OMP	**4Z313**
High-Pressure										
Grease										
¼"	50 ft.	½" (F)NPT	¼" (M)NPT	SAE 100 R2 T	210°F	5000 psi	Cam Latch with Roller Guide	Reelcraft	7450 OHP	**6AB49**
⅜"	50 ft.	½" (F)NPT	¼" (M)NPT	SAE 100 R2 T	210°F	4800 psi	—	Reelcraft	7650 OHP	**4Z175**



No. 31XG65



No. 4NA85



No. 29PZ75

REELCRAFT SPEEDAIRE COXREELS

Dual-Pedestal Heavy-Duty Hose Reels

- Permanently lubricated precision bearings
- Chip-resistant, powder-coated finish

Coxreels® models feature multiposition guide arm, lock ratchet, and an enclosed cartridge-style motor. Super Hub™ provides triple axle support. Made of steel with solid brass full-flow swivel, nitrile seals, and CNC spun and ribbed discs with rolled edges. External fluid path for easy maintenance and for fast hose installation. EZ-Coil® feature provides controlled hose retraction that reduces the rewind speed by as much as 80% over conventional hose reels. Compact Reelcraft® and Speedaire® reels feature an antilatch. Guide arm design is structurally reinforced. Mount to floor, wall, ceiling, workbench, or inside truck. Hoses included.

Hose Length	Hose I.D.	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Overall Height	Brand	Mfr. Model	Item No.
Low-Pressure											
Air, Mild Chemical, Water											
50 ft.	¾"	¾" (F)NPT	¾ in (M)NPT	Rubber	150°F	250 psi	Locking	25⅜"	Reelcraft	83050 OLP-RH	**448F65**
75 ft.	⅜"	½" (F)NPT	½ in (F)NPT	PVC	150°F	300 psi	Locking	25⅜"	Reelcraft	81075 OLP	**448F63**
Air, Water											
35 ft.	¼"	½" (F)NPT	¼ in (M)NPT	PVC	150°F	300 psi	Locking	16⅜"	Reelcraft	DP5435 OLP	**5KPA4**
	⅜"	½" (F)NPT	¼ in (M)NPT	PVC	150°F	300 psi	Locking	16⅜"	Reelcraft	DP5635 OLP	**5KPA6**
	½"	½" (F)NPT	⅜ in (M)NPT	PVC	150°F	300 psi	Locking	16⅜"	Reelcraft	DP5835 OLP	**5KPA8**
50 ft.	¼"	½" (F)NPT	¼ in (M)NPT	PVC	150°F	300 psi	Locking	16⅜"	Reelcraft	DP5450 OLP	**5KPA5**
	⅜"	½" (F)NPT	¼ in (M)NPT	PVC	150°F	300 psi	Locking	17"	Reelcraft	DP7650 OLP	**2CAG5**
	⅜"	⅜" (F)NPT	⅜ in (M)NPT	PVC	150°F	300 psi	Locking	15⅜"	Speedaire	31XG65	**31XG65**
	½"	½" (F)NPT	⅜ in (M)NPT	PVC	150°F	300 psi	Locking	17"	Reelcraft	DP7850 OLP	**2CAG6**
	¾"	¾" (F)NPT	¾ in	PVC	150°F	250 psi	—	25⅜"	Reelcraft	83050 OLP	**5PG05**
	¾"	¾" (F)NPT	¾ in (M)NPT	PVC	150°F	250 psi	Locking	20⅝"	Speedaire	31XG67	**31XG67**
	1"	1" (F)NPT	¾ in	PVC	150°F	250 psi	Locking	25⅜"	Reelcraft	D84050 OLP	**4NA88**
	1"	1" (F)NPT	1 in (M)NPT	PVC	150°F	250 psi	Locking	22⅝"	Speedaire	31XG64	**31XG64**
75 ft.	½"	½" (F)NPT	½ in (M)NPT	PVC	150°F	300 psi	Locking	25⅜"	Reelcraft	82075 OLP	**4NA86**
	½"	½" (F)NPT	½ in (M)NPT	PVC	150°F	300 psi	Locking	21⅛"	Speedaire	31XG63	**31XG63**
	¾"	¾" (F)NPT	¾ in	PVC	150°F	250 psi	—	25⅜"	Reelcraft	D83075 OLP	**5PG07**
	¾"	¾" (F)NPT	¾ in (M)NPT	PVC	150°F	250 psi	Locking	23¾"	Speedaire	31XG68	**31XG68**
100 ft.	⅜"	½" (F)NPT	⅜ in (M)NPT	PVC	150°F	300 psi	Locking	25⅜"	Reelcraft	81100 OLP	**4NA85**
	⅜"	⅜" (F)NPT	⅜ in (M)NPT	PVC	150°F	300 psi	Locking	16⅞"	Speedaire	31XG62	**31XG62**
	½"	½" (F)NPT	½ in (M)NPT	PVC	150°F	300 psi	—	25⅜"	Reelcraft	82100 OLP	**5PG04**
	½"	½" (F)NPT	½ in (M)NPT	PVC	150°F	300 psi	Locking	21⅛"	Speedaire	31XG66	**31XG66**
Medium-Pressure											
Oil											
35 ft.	½"	½" (F)NPT	½ in (M)NPT	SAE 100 R1 T	210°F	3250 psi	Locking	16⅜"	Reelcraft	DP5835 OMP	**5KPA9**
50 ft.	½"	½" (F)NPT	½ in (M)NPT	SAE 100 R1 T	210°F	3250 psi	Locking	17"	Reelcraft	DP7850 OMP	**2CAG7**
	¾"	¾" (F)NPT	¾ in	SAE 100 R1 T	210°F	1250 psi	Locking	25⅜"	Reelcraft	83050 OMP	**4NA90**
75 ft.	½"	½" (F)NPT	½ in (M)NPT	SAE 100 R1 T	210°F	2000 psi	Locking	25⅜"	Reelcraft	82075 OMP	**4NA89**
High-Pressure											
Air, Hydraulic Oil, Oil, Water											
75 ft.	⅜"	⅜" (F)NPT	⅜ in (M)NPT	Rubber	212°F	5000 psi	Locking	25¼"	Coxreels	EZ-THP-375	**29PZ75**
Grease											
35 ft.	⅜"	½" (F)NPT	¼ in (M)NPT	SAE 100 R2 T	210°F	4800 psi	Locking	16⅜"	Reelcraft	DP5635 OHP	**5KPC0**
50 ft.	⅜"	½" (F)NPT	¼ in (M)NPT	SAE 100 R2 T	210°F	4800 psi	Locking	17"	Reelcraft	DP7650 OHP	**2CAG8**
	⅜"	½" (F)NPT	⅜ in (F)NPT	Rubber	210°F	5000 psi	Locking	17"	Reelcraft	DP7650 OHP-5K	**448F69**
75 ft.	⅜"	⅜" (F)NPT	⅜ in (M)NPT	SAE 100 R2 T	210°F	4800 psi	Locking	25⅜"	Reelcraft	81075 OHP	**4NA91**
100 ft.	¼"	½" (F)NPT	⅜ in (F)NPT	Rubber	—	—	—	25⅜"	Reelcraft	80100 OHP	**448F62**
	⅜"	⅜" (F)NPT	⅜ in (M)NPT	SAE 100 R2 T	210°F	4800 psi	Locking	25⅜"	Reelcraft	81100 OHP	**5KPC1**

General-Duty Bench/Compact Hose Reels

- Self-lubricating bronze bearings
- External fluid path for easy maintenance
- Chip-resistant, powder-coated finish

CoxComposite™ grommet with continuous radius design does not pinch or catch the hose during operation; ratchet hub secures hose to desired length. Use with air and water. Heavy-duty steel with solid brass full-flow swivel, nitrile seals, and CNC spun discs with rolled edges.



No. 29RA17

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Brand	Mfr. Model	Item No.
Low-Pressure										
Air, Antifreeze, Water										
¼"	25 ft.	¼" (F)NPT	¼" (M)NPT	—	150°F	300 psi	Locking	Coxreels	LG-LPL-125	**29RA17**
Air, Water										
¼"	25 ft.	¼" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Speedaire	437J24	**437J24**

Auto-Retractable Stainless Steel Reels

- Permanently lubricated bearings

304L-grade stainless steel reels are for use in corrosive environments or food preparation areas. Suitable for chemical transfer, caustic wash down, solvent handling, and marine applications where salt spray is harsh. Both stainless steel and powder-coated finishes have stainless steel fluid path.

Speedaire®—Includes spring-driven, positive locking mechanism and safety lock. Features a multiposition ratchet lock and easy tension adjustment.

Reelcraft®—Most models feature a stainless steel frame, and all have a stainless steel fluid path. Heavy-duty brackets eliminate bending. Reels come with banded drive spring and Viton® seals.

Coxreels®—Spring-driven reels have an external fluid path with a full-flow stainless steel swivel and nontoxic food-grade nitrile grease seals.



No. 447K09



No. 2CUD4

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Finish	Latch	Brand	Mfr. Model	Item No.
General Duty, Low-Pressure											
Air, Mild Chemical, Water											
½ in	25 ft	½ in (F)NPT	½ in (M)NPT	—	150 °F	300 psi	Stainless Steel	Locking	Coxreels	P-LPL-425-SS	**16X545**
¾ in	25 ft	¾ in (F)NPT	¾ in (M)NPT	—	150 °F	300 psi	Stainless Steel	Locking	Coxreels	SHL-N-525-SS	**16X548**
⅜ in	70 ft	¼ in (F)NPT	¼ in (F)NPT	—	150 °F	300 psi	Stainless Steel	Locking	Reelcraft	LC607 OLS	**38EE94**
Air, Water											
⅜ in	35 ft	⅜ in (F)NPT	—	—	150 °F	500 psi	Stainless Steel	Locking	Speedaire	437J09	**437J09**
½ in	50 ft	½ in (F)NPT	—	—	150 °F	300 psi	Stainless Steel	Locking	Speedaire	437J19	**437J19**
Air, Chemicals, Oil, Water											
½ in	50 ft	½ in (F)NPT	½ in (F)NPT	—	210 °F	3,000 psi	Stainless Steel	Locking	Reelcraft	7800 OMS	**59YT33**
Air, Mild Chemical, Water											
⅜ in	50 ft	⅜ in (F)NPT	⅜ in (M)NPT	—	250 °F	3,000 psi	Stainless Steel	Locking	Coxreels	MPL-N-350-SS	**16X549**
Air, Water											
⅜ in	35 ft	⅜ in (F)NPT	—	—	150 °F	300 psi	Powder Coated	Locking	Coxreels	P-LPL-335-BAX	**447K09**
½ in	50 ft	½ in (F)NPT	½ in (M)NPT	Rubber	210 °F	300 psi	Stainless Steel	Locking	Speedaire	2CUD4	**2CUD4**
Mild Chemical											
½ in	50 ft	½ in (F)NPT	½ in (F)NPT	—	210 °F	500 psi	Powder Coated	Locking	Reelcraft	7800 OLB	**38EE93**
⅜ in	70 ft	½ in (F)NPT	½ in (F)NPT	—	210 °F	500 psi	Powder Coated	Locking	Reelcraft	7600 OLB	**38EE92**
Heavy Duty, Low-Pressure											
Air, Mild Chemical, Water											
½ in	50 ft	½ in (F)NPT	½ in (F)NPT	—	150 °F	500 psi	Stainless Steel	—	Reelcraft	7800 OLS	**6Z785**
¾ in	75 ft	¾ in (F)NPT	¾ in (M)NPT	—	150 °F	500 psi	Stainless Steel	Locking	Reelcraft	D83000 OLS	**6Z786**
Air, Water											
¾ in	75 ft	¾ in (F)NPT	¾ in (M)NPT	—	210 °F	500 psi	Stainless Steel	Locking	Reelcraft	D9300 OLSBW	**4NB29**
Oil											
½ in	100 ft	½ in (F)NPT	½ in (F)NPT	—	210 °F	500 psi	Stainless Steel	Locking	Reelcraft	82000 OLS	**5KPC2**
Water											
1 in	50 ft	1 in (F)NPT	1 in (F)NPT	—	210 °F	500 psi	Stainless Steel	Locking	Reelcraft	D84000 OLS	**5KPC3**

Heavy-Duty Mobile Base Reels

- Aflas® seals
- Permanently lubricated bearings
- Vibrationproof, self-locking latch
- Corrosion-resistant powder-coated finish
- Hose included

Legacy—Features a die-cast aluminum base, multiposition guide arm, and durable Flexzilla® hose.

Reelcraft® Series SD10000—Oversized cast aluminum latch and ratchet combined with a stainless steel latch spring helps extend the service life. Feature high quality external drive spring and a heavy gauge all-bolted together frame. Guide arms are field-adjustable. Compact, high quality reel in its class, making it ideal for mounting in areas where space is limited. Stainless steel fluid paths offer corrosion resistance against various fluids.

Reelcraft® Series D9000—Large mounting base increases stability for use in abusive environments and in unstable applications, such as on service trucks. Bottom wind provides convenient hose access. Stainless steel fluid paths offer corrosion resistance against various fluids.



No. 12U326



No. 2CAH6

Hose I.D.	Hose Length	Reel Inlet	Hose Outlet	Hose Material	Max. Temp.	Max. Pressure	Latch	Brand	Mfr. Model	Item No.
Air										
½"	50 ft.	½" (F)NPT	½" (M)NPT	Hybrid Polymer with Polyester Braid	150°F	300 psi	Spring Loaded	Legacy	L8041FZ-GRA	**5LAL3**
Air, Fuel, Water										
¾"	100 ft.	¾" (F)NPT	¾"	PVC	150°F	250 psi	Locking	Reelcraft	D9399 OLPBW	**2CAH6**
Air, Water										
¾"	35 ft.	1" (F)NPT	¾"	PVC	210°F	250 psi	Locking	Reelcraft	SD13035 OLP	**12U323**
1"	35 ft.	1" (F)NPT	1" (M)NPT	PVC	210 Degrees F	300 psi	Locking	Reelcraft	SD14035 OLP	**12U325**
¾"	50 ft.	1" (F)NPT	¾" (M)NPT	PVC	210°F	300 psi	Locking	Reelcraft	SD13050 OLP	**12U324**
¾" to 1"	50 ft.	1" (F)NPT	1" (M)NPT	PVC	150 Degrees F	250 psi	Locking	Reelcraft	SD14050 OLP	**12U326**
1"	50 ft.	1" (F)NPT	¾"	PVC	150°F	250 psi	Locking	Reelcraft	D9450 OLPBW	**2CAH7**
¾"	75 ft.	¾" (F)NPT	¾"	PVC	150°F	250 psi	Locking	Reelcraft	D9375 OLPBW	**4NA94**
Low-Pressure										
⅜"	75 ft.	½" (F)NPT	¼" (M)NPT	PVC	150°F	300 psi	Locking	Reelcraft	HD76070 OLP	**48ZW93**
Vacuum Oil Recovery										
¾"	35 ft.	1" (F)NPT	¾" (M)NPT	SAE 100 R4	210°F	300 psi	Locking	Reelcraft	SD13035 OVP	**12U327**
1"	35 ft.	1" (F)NPT	1" (M)NPT	SAE 100 R4	210 Degrees F	250 psi	Locking	Reelcraft	SD14035 OVP	**12U329**
¾"	50 ft.	1" (F)NPT	¾" (M)NPT	SAE 100 R4	210°F	300 psi	Locking	Reelcraft	SD13050 OVP	**12U328**
1"	50 ft.	1" (F)NPT	1" (M)NPT	SAE 100 R4	210°F	250 psi	Locking	Reelcraft	SD14050 OVP	**12U330**


No. 5FZW9

SPEEDAIRE
COXREELS

Combination Reels

- Heavy Duty
- Max. temp.: 150°F
- Max. pressure: 300 psi
- Permanently lubricated precision bearings
- Chip-resistant, powder-coated finish
- Multi-position locking mechanism secures hose/cord at desired length

Spring-driven dual reels provide dedicated, individual control of 2 separate hoses or hose/cord in a single assembly. Feature enclosed cartridge-style spring motor, full-flow brass swivel, and nitrile seals. A single, expanded mounting base provides excellent stability. All-steel construction with rolled edges and ribbed discs for safety, strength, and durability.

Hose I.D.	Hose Length	Wire Gauge (AWG)	Amps	Receptacle Type	Hose Included	Brand	Mfr. Model	Item No.
Air/Electric								
⅜ in	25 ft	14	13 A	NEMA 5-15R	Yes	Speedaire	45UZ55	**45UZ55**
	50 ft	12	20 A	Single Receptacle	Yes	Coxreels	C-L350-5012-A	**5FZW9**
	50 ft	12	20 A	Quad Receptacle	Yes	Coxreels	C-L350-5012-B	**5FZX0**
	50 ft	12	13 A	Duplex G.F.C.I. Receptacle	Yes	Coxreels	C-L350-5012-F	**5FZX2**
	50 ft	12	20 A	No Accessory	Yes	Coxreels	C-L350-5012-X	**29PX19**
	50 ft	16	13 A	Plug	Yes	Coxreels	C-L350-5016-X	**29PX24**
Air/Flourscent Angle Light								
⅜ in	50 ft	16	13 A	Plug	Yes	Coxreels	C-L350-5016-D	**5FZX1**
Air/Flourscent Tube Light								
⅜ in	50 ft	16	0.3 A	Plug	Yes	Coxreels	C-L350-5016-C	**29PX21**
Air/Incandecent Drop Light								
⅜ in	50 ft	16	13 A	Plug	Yes	Coxreels	C-L350-5016-E	**29PX22**
Air/Water								
⅜ in	25 ft	—	—	—	Yes	Coxreels	C-LP-325-325	**5FZW6**
	25 ft	—	—	—	Yes	Speedaire	45UZ47	**45UZ47**
½ in	25 ft	—	—	—	Yes	Coxreels	C-LP-425-425	**5FZW8**
	25 ft	—	—	—	Yes	Speedaire	45UZ49	**45UZ49**
¼ in	50 ft	—	—	—	Yes	Coxreels	C-LP-150-150	**5FZW5**
	50 ft	—	—	—	Yes	Speedaire	45UZ46	**45UZ46**
⅜ in	50 ft	—	—	—	Yes	Coxreels	C-LP-350-350	**5FZW7**
	50 ft	—	—	—	Yes	Speedaire	45UZ48	**45UZ48**


No. 2CAJ4

No. 10C512

SPEEDAIRE ® REELCRAFT COXREELS

Static Discharge Cable Reels

- Permanently lubricated bearings
- Vibrationproof, self-locking latch

Spring Retractable Static Discharge Reels allow cable grounds equipment to operate in hazardous atmospheres.

Description	Cable Length	Cable Coated	Brand	Mfr. Model	Item No.
Spring Retractable Static Discharge Reels, Stainless Steel					
Cable Reel	20 ft.	No"	Speedaire"	440G04"	**440G04**
Cable Reel	50 ft.	No"	Speedaire"	440G05"	**440G05**
Spring Retractable Static Discharge Reels					
Cable Reel (Dual Clamps)	50 ft.	No"	Reelcraft"	G 3050 Y"	**2CAJ4**
Cable Reel	50 ft.	No"	Speedaire"	440G06"	**440G06**
Hand Crank Static Discharge Reels					
Cable Reel (Reel Only)	—	No"	Coxreels"	SDHL-200"	**10C511**

Cable Length (ft.)	Includes	Brand	Mfr. Model	Item No.
Static Discharge Cable Kits				
50	50 Amp Grounding Cable, Ball Stop	Coxreels	2182-G-50	**10C512**
100		Coxreels	2182-G-100	**10C513**
200		Coxreels	2182-G-200	**10C514**


No. 5PG08


No. 10C509

® REELCRAFT COXREELS

Fuel Delivery Reels

- Permanently lubricated bearings
- Vibrationproof, self-locking latch

Compact design. Metal forms for high strength. Use for both mobile and permanent-mount applications. Reelcraft models help protect the hose by connecting to the goose neck within the spool, reducing the potential for fuel leaks.

Note: Grounding reel is recommended for all fuel applications.

Hose I.D.	Hose Length	Max. Temp.	Max. Pressure	Reel Inlet	Hose Outlet	Seal Type	Overall Length	Overall Width	Overall Height	Hose Included	Brand	Mfr. Model	Item No.
Fuel Delivery													
¾ in	25 ft	150 °F	50 psi	¾ in (F)NPT	¾ in	Viton(R)	19 ¾ in	7 in	20 ¼ in	Yes	Reelcraft	F7925 OLP	**2CAH8**
	50 ft	150 °F	50 psi	¾ in (F)NPT	¾ in	Viton(R)	24 in	10 ½ in	25 ⅜ in	Yes	Reelcraft	F83050 OLP	**5PG08**
	75 ft	150 °F	250 psi	¾ in (F)NPT	¾ in (M)NPT	Viton(R)	24 in	13 in	25 ⅜ in	No	Reelcraft	FD83000 OLP	**5PG09**
	75 ft	150 °F	50 psi	¾ in (F)NPT	¾ in	Viton(R)	24 in	13 in	25 ⅜ in	Yes	Reelcraft	FD83075 OLP	**4NB21**
1 in	35 ft	150 °F	300 psi	1 in (F)NPT	1 in (M)NPT	Nitrile	24 in	10 in	25 ½ in	Yes	Coxreels	TSHF-N-635	**10C509**
	50 ft	150 °F	50 psi	1 in (F)NPT	1 in (M)NPT	Viton(R)	24 in	15 ¾ in	25 ⅜ in	Yes	Reelcraft	FD84050 OLP	**4NB22**
1 ¼ in	50 ft	150 °F	600 psi	1¼ in (M)NPT	1¼ in (F)NPT	Nitrilo	26 ¼ in	19 9⁄16 in	26 ⅜ in	No	Reelcraft	FF9500 OLPBW	**4JNA5**
1 ½ in	50 ft	150 °F	600 psi	1½ in (M)NPT	1½ in (F)NPT	Nitrile	26 ¼ in	19 9⁄16 in	26 ⅜ in	No	Reelcraft	FF9600 OLPBW	**4JNA6**
Diesel Exhaust Fluid (DEF)													
½ in	50 ft	150 °F	300 psi	½ in	½ in (M)NPT	Viton®	19 ¾ in	7 in	20 ¼ in	Yes	Reelcraft	UR7850 OLB	**12U316**
¾ in	25 ft	150 °F	300 psi	¾ in	¾ in (M)NPT	Viton®	19 ¾ in	7 in	20 ¼ in	Yes	Reelcraft	UR7925 OLB	**12U317**
	50 ft	150 °F	300 psi	¾ in	¾ in (M)NPT	Viton®	26 ¼ in	12 in	26 ⅜ in	Yes	Reelcraft	URD9350 OLBBW	**12U318**

Dual Hydraulic Reels

®REELCRAFT

- Permanently lubricated bearings
- Vibrationproof, self-locking latch
- Corrosion-resistant powder-coated finish
- Hose included

Compact, dual hydraulic reels are capable of handling a twin hose. Mount easily to floors, walls, ceilings, benches, or inside trucks. No. 4NB31 has Buna N seals; Nos. 4NB32 and 4NB33 have Aflas® seals. Can be used to operate hydraulic cylinders or tools, as well as for pneumatic applications.


No. 4NB31

Hose I.D.	Hose Length	Max. Temp.	Max. Pressure	Hose Outlet	Reel Inlet	Mfr. Model	Item No.
¼ in	45 ft	210 °F	2000 psi	¼ in (M)NPT	¼ in (F)NPT	TH7445 OMP	**4NB31**
⅜ in	50 ft	210 °F	2000 psi	⅜ in (M)NPT	⅜ in (F)NPT	TH86050 OMP	**4NB32**
½ in	50 ft	210 °F	2000 psi	½ in (M)NPT	½ in (F)NPT	TH88050 OMP	**4NB33**

Enclosed Reels

SPEEDAIRE® ®REELCRAFT COXREELS®

- Permanently lubricated bearings
- Vibrationproof, self-locking latch
- Corrosion-resistant powder-coated finish

Enclosures offer a clean look and environmental protection for hoses. Reels can be adjusted to allow hose to come off the top or side.

Speedaire® Series—Spring-driven, with positive latching mechanism.

Reelcraft®—Low-Pressure Air/Water Series—Tough, lightweight polypropylene resists many acids and alkalis. Protect hose while allowing both hose and reel to be easily cleaned. Lightweight reels come with convenient handle.

Steel Housing—Heavy steel cover offers complete protection of the hose, formed and robotically welded base for trouble free service.

Coxreels® Series—CNC spun and ribbed discs with rolled edges for added strength and safety. No. 29PY57 features the Ez-Coil® controlled hose retraction system. Nos. 29PY04 and 33N085 feature the Super Hub™ dual axle support system that helps strengthen reel structure and reduce vibration.


No. 2CUC7


No. 4NB11


No. 33N085

Hose I.D.	Hose Length	Max. Temp.	Max. Pressure	Hose Included	Hose Outlet	Reel Inlet	Finish	Brand	Mfr. Model	Item No.
Polypropylene Housing, Air/Water, Auto-Retractable										
¼"	20 ft.	165°F	200 psi	Yes	¼" (M)NPT	¼" (F)NPT	Painted	Speedaire	2CUD6	**2CUD6**
Polypropylene Housing, Garden Style Water Hose										
½"	40 ft.	140°F	300 psi	Yes	½" (M)NPT	½" (F)NPT	Powder Coated	Speedaire	2CUC9	**2CUC9**
⅜"	50 ft.	140°F	300 psi	Yes	⅜" (M)NPT	⅜" (F)NPT	Powder Coated	Speedaire	2CUC7	**2CUC7**
Polypropylene Housing, Low Pressure, Air/Water										
⅜"	50 ft.	150°F	300 psi	Yes	¼" (M)NPT	¼" (M)NPT	Polypropylene	Speedaire	2VDF1	**2VDF1**
½"	50 ft.	150°F	300 psi	Yes	⅜" (M)NPT	¾" x 11½" (M)GHT	Polypropylene	Speedaire	2VDF4	**2VDF4**
	50 ft.	150°F	232 psi	Yes	½" (M)NPT	½" (F)NPT	Polypropylene	Reelcraft	SGA3850 OLP	**5PG11**
⅝"	50 ft.	150°F	125 psi	Yes	¾"	½" (F)NPT	Polypropylene	Reelcraft	SWA3850 OLP	**2CAJ5**
⅜"	65 ft.	150°F	232 psi	Yes	⅜" (M)NPT	⅜" (F)NPT	Polypropylene	Reelcraft	SGA3665 OLP	**3MJJ3**
	75 ft.	150°F	300 psi	Yes	¼" (M)NPT	¾" x 11½" (M)GHT	Polypropylene	Speedaire	2VDF2	**2VDF2**
Steel Housing, Low Pressure Air/Water										
¼"	50 ft.	150°F	300 psi	Yes	¼" (M)NPT	⅜" (F)NPT	Powder Coated	Reelcraft	5450 ELP	**4NB11**
	50 ft.	150°F	500 psi	No	¼" (F)NPT	⅜" (F)NPT	Powder Coated	Reelcraft	5400 ELP	**448F61**
⅜"	50 ft.	150°F	300 psi	No	⅜" (M)NPT	⅜" (F)NPT	Powder Coated	Coxreels	ENL-N-350	**29PY04**
	50 ft.	150°F	300 psi	No	⅜" (M)NPT	⅜" (F)NPT	Stainless Steel	Coxreels	ENL-N-350-SS	**29PY05**
½"	50 ft.	150°F	300 psi	Yes	⅜" (M)NPT	½" (F)NPT	Powder Coated	Reelcraft	7850 ELP	**4NB13**
	50 ft.	150°F	300 psi	No	½" (M)NPT	½" (F)NPT	Stainless Steel	Coxreels	ENL-N-450-SS	**33N085**
	50 ft.	150°F	300 psi	No	½" (M)NPT	½" (F)NPT	Powder Coated	Coxreels	ENL-N-450	**29PY09**
⅜"	70 ft.	150°F	300 psi	Yes	¼" (M)NPT	½" (F)NPT	Powder Coated	Reelcraft	7670 ELP	**4NB12**
Steel Housing, Low Pressure Air/Water with Safety Retraction										
½"	50 ft.	150°F	300 psi	Yes	½" (M)NPT	½" (F)NPT	Powder Coated	Coxreels	EZ-EN-450	**29PY57**
Steel Housing, Medium Pressure Oil										
½"	50 ft.	210°F	2000 psi	Yes	⅜" (M)NPT	½" (F)NPT	Powder Coated	Reelcraft	7850 EMP	**4NB14**

Motor Driven Hose Reels

®REELCRAFT COXREELS®

- Hose not included

Ideal for stationary and mobile applications. Adjustable drag eliminates backlash. The chain and sprocket are partially shrouded for added protection.

Coxreels®—All-welded 1-pc. steel A-frame construction features a low-profile outlet riser and open drum slot design for smooth, even hose wraps. Reliable direct gear drive provides quiet and smooth retraction. Include permanently lubricated self-aligning pillow block bearings for smooth and trouble-free rotation. Stainless Steel reels offer non-corrosive performance in food/chemical processing, and off-shore/marine applications.

Reelcraft®—Detaching of the goose neck allows for easy installation and provides extended service of hose.


No. 5Z339


No. 29PP65

Hose I.D.	Hose Length	Max. Temp. Rating	Max. Pressure Rating	Hose Outlet	Reel Inlet	Motor Voltage	Brand	Mfr. Model	Item No.
Heavy-Duty, Aluminum									
2"	150 ft.	174°F	300 psi	2" (F)NPT	2" (F)NPT	12VDC	Reelcraft	EP3705-36-24-20MFI-1	**38EE54**
2½"	100 ft.	174°F	300 psi	3" (F)NPT	3" (F)NPT	12VDC	Reelcraft	EP5905-39-18-25MFI-1	**38EE56**
	150 ft.	174°F	300 psi	3" (F)NPT	3" (F)NPT	12VDC	Reelcraft	EP5905-39-28-25MFI-1	**38EE57**
Heavy-Duty, Carbon Steel									
½"	100 ft.	250°F	1000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32106 L12D	**38EE74**
	100 ft.	250°F	3000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32106 M12D	**38EE81**
	200 ft.	250°F	1000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32112 L12D	**38EE75**
	325 ft.	250°F	1000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32118 L12D	**38EE76**
¾"	100 ft.	250°F	1000 psi	¾" (F)NPT	¾" (F)NPT	12VDC	Reelcraft	EA33112 L12D	**38EE77**
	100 ft.	250°F	3000 psi	¾" (F)NPT	¾" (F)NPT	12VDC	Reelcraft	EA33112 M12D	**38EE82**
	175 ft.	250°F	1000 psi	¾" (F)NPT	¾" (F)NPT	12VDC	Reelcraft	EA33118 L12D	**38EE78**
	275 ft.	250°F	3000 psi	¾" (F)NPT	¾" (F)NPT	12VDC	Reelcraft	EA33128 M12D	**38EE83**
1"	100 ft.	250°F	300 psi	1" (F)NPT	1" (F)NPT	12VDC	Reelcraft	EB37118 L12D	**38EE79**
	100 ft.	250°F	3000 psi	1" (F)NPT	1" (F)NPT	12VDC	Reelcraft	EH37118 M12D	**38EE84**
	250 ft.	250°F	3000 psi	1" (F)NPT	1" (F)NPT	12VDC	Reelcraft	EH37122 M12D	**38EE85**
Heavy-Duty, Nickel Plated									
½"	200 ft.	250°F	3000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32112 M12D	**5Z340**
	325 ft.	250°F	3000 psi	½" (F)NPT	½" (F)NPT	12VDC	Reelcraft	EA32118 M12D	**5Z339**
¾"	175 ft.	250°F	3000 psi	¾" (M)NPT	¾" (F)NPT	115VAC	Reelcraft	EA33118 M10AX	**5Z341**
	275 ft.	250°F	1000 psi	¾" (M)NPT	¾" (F)NPT	12VDC	Reelcraft	EA33128 L12D	**2CAJ3**
Heavy-Duty, Nickel Plated Steel									
1"	230 ft.	225°F	3000 psi	1" (F)NPT	1" (F)NPT	12VDC	Reelcraft	EP1200-23-28 1	**4JNA4**
Heavy-Duty, Stainless Steel									
½"	100 ft.	250°F	3000 psi	½" (F)NPT	½" (F)NPT	12VDC	Coxreels	1125-4-100-E-SP	**29PP65**
	200 ft.	250°F	3000 psi	½" (F)NPT	½" (F)NPT	12VDC	Coxreels	1125-4-200-E-SP	**29PP79**
1"	100 ft.	250°F	3000 psi	1" (F)NPT	1" (F)NPT	12VDC	Coxreels	1175-6-100-E-SP	**29PT50**
	200 ft.	250°F	3000 psi	1" (F)NPT	1" (F)NPT	12VDC	Coxreels	1175-6-200-E-SP	**29PT91**

Hand-Crank Hose Reels

SPEEDAIRE ® REELCRAFT COXREELS

Ideal for stationary and mobile applications. Adjustable drag eliminates backlash.

General Duty—These reels have a simple design and steel housing frame. Ideal for industrial applications.

Heavy-Duty—COXREELS®—All-welded, 1-pc. steel A-frame construction features a low-profile outlet riser and open drum slot design for smooth, even hose wraps. Include a long-handled lockpin and adjustable friction brake assembly to lock or brake the drum from rotation. Stainless Steel reels offer non-corrosive performance in food/chemical processing, and off-shore/marine applications.

- **Self-aligning, permanently lubricated pillow block bearings for smooth rotation**

Heavy-Duty—REELCRAFT®—1-pc., bolted A-frame steel construction features nickel-plated full-flow swivels with Aflas O-ring seals and vibrationproof fasteners. Detachment of goose neck allows for easy installation and service of hose. Convenient T-handle locks spool in place when not in use.



No. 2CAJ1



No. 4HK92

Hose I.D.	Hose Length	Max. Temp. Rating	Max. Pressure Rating	Hose Included	Hose Outlet	Reel Inlet	Brand	Mfr. Model	Item No.
General-Duty									
⅜"	50 ft.	150°F	300 psi	No	⅜"	⅜" (F)NPT	Speedaire	440G18	**440G18**
	50 ft.	210°F	300 psi	Yes	¼" (M)NPT	¼" (F)NPT	Speedaire	2CUC5	**2CUC5**
½"	50 ft.	150°F	300 psi	No	—	½" (F)NPT	Speedaire	437J36	**437J36**
⅜"	100 ft.	150°F	300 psi	No	⅜"	⅜" (F)NPT	Speedaire	440G19	**440G19**
½"	100 ft.	150°F	300 psi	No	—	½" (F)NPT	Speedaire	437J37	**437J37**
	100 ft.	250°F	3000 psi	No	½"	½" (F)NPT	Speedaire	440G20	**440G20**
	200 ft.	250°F	3000 psi	No	½"	½" (F)NPT	Speedaire	440G21	**440G21**
⅜"	300 ft.	150°F	500 psi	No	¼" (F)NPT	⅜" (F)NPT	Reelcraft	H16000	**4NA95**
General-Duty, Stainless Steel									
½"	75 ft.	250° F	4000 psi	No	½" (F)NPT	½" (F)NPT	Coxreels	112-4-75-SS	**29PP54**
¾"	100 ft.	250° F	4000 psi	No	¾" (F)NPT	¾" (F)NPT	Coxreels	117-5-100-SS	**33N095**
½"	200 ft.	210°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	HS18000 M	**4NB30**
Heavy-Duty									
¾"	50 ft.	250°F	3000 psi	No	¾" (F)NPT	¾" (F)NPT	Reelcraft	CA33106 M	**38EE68**
1½"	50 ft.	—	600 psi	No	1½" (M)NPT	1½" (F)NPT	Coxreels	1185-1124	**16X572**
1"	100 ft.	250°F	300 psi	No	—	1" (F)NPT	Speedaire	437J15	**437J15**
1½"	100 ft.	—	600 psi	No	1½" (M)NPT	1½" (F)NPT	Coxreels	1185-2024	**16X573**
1"	105 ft.	225°F	3000 psi	No	1" (F)NPT	1" (F)NPT	Reelcraft	HC1200-19-18 1	**4JNA1**
¾"	120 ft.	210°F	1000 psi	No	¾" (M)NPT	¾" (F)NPT	Speedaire	4UKX4	**4UKX4**
	150 ft.	210°F	1000 psi	No	—	¾" (F)NPT	Speedaire	437J16	**437J16**
1"	150 ft.	225°F	3000 psi	No	1" (F)NPT	1" (F)NPT	Reelcraft	HC1200-23-18 1	**4JNA2**
	150 ft.	250°F	300 psi	No	1" (F)NPT	1" (F)NPT	Reelcraft	CB37128 L	**38EE63**
¾"	175 ft.	250°F	1000 psi	No	—	¾" (F)NPT	Speedaire	437J17	**437J17**
	175 ft.	275°F	3000 psi	No	¾" (M)NPT	¾" (F)NPT	Coxreels	1125-5-175	**5FYD7**
½"	200 ft.	210°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Speedaire	6WA77	**6WA77**
	200 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32112 M	**4Z934**
1"	200 ft.	—	3000 psi	No	1" (M)NPT	1" (F)NPT	Coxreels	1175-6-200	**16X571**
¾"	225 ft.	250°F	3000 psi	No	¾" (F)NPT	¾" (F)NPT	Reelcraft	CA33122 M	**38EE71**
	225 ft.	250°F	1000 psi	No	—	¾" (F)NPT	Speedaire	437J18	**437J18**
½"	325 ft.	250°F	1000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32118 L	**38EE60**
	325 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32118 M	**38EE65**
	400 ft.	250°F	1000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32122 L	**2CAJ1**
	400 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32122 M	**38EE66**
	500 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32128 M	**38EE67**
	500 ft.	250° F	1000 psi	No	½" (F)NPT	½" (F)NPT	Reelcraft	CA32128 L	**4LMG6**
Heavy-Duty, Stainless Steel									
½"	100 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Coxreels	1125-4-100-SP	**29PP68**
1"	100 ft.	250°F	3000 psi	No	1" (F)NPT	1" (F)NPT	Coxreels	1175-6-100-SP	**29PT53**
½"	200 ft.	250°F	3000 psi	No	½" (F)NPT	½" (F)NPT	Coxreels	1125-4-200-SP	**29PP82**
¾"	200 ft.	250° F	3000 psi	No	¾" (F)NPT	¾" (F)NPT	Coxreels	1125-5-200-SP	**29PR47**
1"	200 ft.	250°F	3000 psi	No	1" (F)NPT	1" (F)NPT	Coxreels	1175-6-200-SP	**29PT94**
Breathing Air and Clean Fluid Reels									
½"	100 ft.	250°F	6000 psi	No	½" (F)NPT	½" (F)NPT	Coxreels	1125P-4-6	**29PR99**
	200 ft.	250°F	6000 psi	No	½" (F)NPT	½" (F)NPT	Coxreels	1125P-4-12	**29PR97**
Heavy-Duty, Hose Cart									
							Reelcraft	600741-2	**4HK92**



No. 16X565



No. 16X563

Industrial Portable Hose Hand Crank Reels

COXREELS

- 1-pc., 1" steel tubular frame
- Chip-resistant, power-coated finish
- Direct hand crank rewind
- Hose not included

Adjustable tension brake helps prevent "free-wheeling." Nitrile seals. External swivel path with brass 90º full-flow NPT swivel inlet.

Caddy Mount—Base has predrilled holes to ease installation.

Dolly Mount—Feature 8" tires, rubber front feet, and removable handle.

Hose I.D.	Hose Length	Hose Outlet	Mfr. Model	Item No.
Caddy Mount				
⅜"	100 ft.	⅜" (M)NPT	112-3-100-CM	**16X565**
	200 ft.	⅜" (F)NPT	CTJ6200HN	**448F67**
½"	225 ft.	½" (M)NPT	117-4-225-CM	**16X567**
Dolly Mount				
⅜"	200 ft.	⅜" (M)NPT	117-3-200-DM	**16X563**
½"	225 ft.	½" (M)NPT	117-4-225-DM	**16X564**

Additional parts and accessories available on Grainger.com®.

SPEEDAIRE COXREELS® REELCRAFT

Pressure/Spray Wash Reels

- Permanently lubricated bearings
- Corrosion-resistant powder-coated finish

Hose I.D.	Hose Length	Max. Temp. Rating	Max. Pressure Rating	Hose Outlet	Hose Included	Brand	Mfr. Model	Item No.
Hand Crank								
½ in	75 ft	225°F	4000 psi	—	No	Speedaire	437J34	**437J34**
	125 ft	225°F	4000 psi	½ in (M)NPT	No	Coxreels	SM17-4-125	**16X561**
	225 ft	225°F	4000 psi	½ in (M)NPT	No	Coxreels	117-4-225	**16X559**
⅜ in	50 ft	210°F	5000 psi	⅜ in (F)NPT	No	Reelcraft	CT6050HN	**5KPD0**
	50 ft	225°F	4000 psi	—	No	Speedaire	437J31	**437J31**
	100 ft	210°F	5000 psi	⅜ in (F)NPT	No	Reelcraft	CT6100HN	**5KPD1**
	100 ft	225°F	4000 psi	⅜ in (M)NPT	No	Coxreels	112-3-100	**16X555**
	100 ft	225°F	4000 psi	—	No	Speedaire	437J35	**437J35**
	140 ft	400°F	4500 psi	½ in (F)NPT	No	Reelcraft	CA38106 M	**4JNC9**
	150 ft	225°F	4000 psi	—	No	Speedaire	437J32	**437J32**
	250 ft	225°F	4000 psi	—	No	Speedaire	437J33	**437J33**
	300 ft	400°F	5000 psi	½ in (F)NPT	No	Reelcraft	CA38112 M	**4NB24**
Spring Return								
⅜ in	50 ft	400°F	4500 psi	⅜ in (F)NPT	No	Reelcraft	PW7600 OHP	**2CAG9**
	50 ft	212°F	5000 psi	¼ in (M)NPT	Yes	Reelcraft	PW7650 OHP	**38EE39**
	100 ft	400°F	5000 psi	⅜ in (F)NPT	No	Reelcraft	PW81000 OHP	**4NB25**
	100 ft	212°F	5000 psi	—	No	Speedaire	45UZ54	**45UZ54**



No. 4NB25

REELCRAFT

Water Reels

- Permanently lubricated bearings
- Camlatch
- 13¾"L x 6"W x 14½"H

Drinking/Potable—
- Includes drain petcock
- Stainless steel shaft and PVC swivel

Prerinse/Food Service—
Includes lever-operated spray valve.

Description	Hose Length	Max. Temp.	Max. Pressure	Hose Outlet	Mfr. Model	Item No.
Drinking/Potable	35 ft	86 °F	150 psi	½ in (M)NPT	A5835 OLBSW23	**4NB26**
Prerinse/Food Service, Open	35 ft	210 °F	250 psi	⅜ in (F)NPT	5635 OLPSW5	**4NB27**



No. 4NB26

REELCRAFT

Replacement Hose Assemblies

- Max. temp.: 150°F

Reelcraft® uses an elongated fitting with proprietary crimp and adhesion process to ensure the longest possible service life and simplify reel installation.

Inside Dia.	Fitting Size	L	Max. Pressure	For Use With	Mfr. Model	Item No.
⅜"	¼" x ¼"	25 ft.	300 psi	2Z863	S601013-25	**2PLA9**
	¼" x ¼"	35 ft.	300 psi	3VE27, 6Z610	S601013-35	**1GYJ4**
	¼" x ¼"	50 ft.	300 psi	3VE28	S601013-50	**2PLC3**
	¼" x ⅜"	50 ft.	300 psi	6NY34, 4HK89	S601012-50	**2PLC4**
	¼" x ½"	50 ft.	300 psi	2Z864	601017-50	**1GYJ5**
	⅜" x ½"	100 ft.	300 psi	4NA85	S601015-100	**2PLC5**
½"	⅜" x ½"	50 ft.	300 psi	2Z865, 4NA93, 4NB13, 6NU45	601021-50	**1GYJ6**
	½" x ½"	25 ft.	300 psi	2CAH9	S601020-25	**2PLC6**
	½" x ½"	50 ft.	300 psi	4NA80, 5PG06	S601022-50	**2PLC8**
¾"	¾" x ¾"	50 ft.	250 psi	5PG05	S601026-50	**2PLE1**
	¾" x ¾"	75 ft.	250 psi	4NA88, 4NA94, 5PG07	601026-75	**1GYJ7**



No. 2PLC8

REELCRAFT COXREELS



No. 1GYH4



No. 10C518

Hose Reel Replacement Parts and Accessories

Item	For Use With	Mfr. Model	Item No.
Reelcraft®			
Hose Reel Bumper	Nom. Hose I.D. ¼, Min/Max Hose Dim. .438 - .625	1-HR1004-A	**1GYH3**
Hose Reel Bumper	Nom. Hose I.D. ⅜, Min/Max Hose Dim. .625 - .749	1-HR1004	**1GYH4**
Hose Reel Bumper	Nom. Hose I.D. ⅜, Min/Max Hose Dim. .625 - .749	1-HR1004-3	**1GYH5**
Hose Reel Bumper	Nom. Hose I.D. ½, Min/Max Hose Dim. .750 - 1.05	2-HR1004-3	**1GYH6**
Hose Reel Swivel	2Z862, 2Z863, 3VE25 to 3VE28, 4HK86, 4HK87, 4HK89, 4NA95, 4NB11, 5PG03, 6Z160	S600886	**1GYJ8** *
Hose Reel Swivel	4NA88, 4NA90, 4NA99, 5PG05, 5PG07, 5Z338, 5Z341	S602026	**1GYJ9**
Hose Reel Swivel	4NA89, 4NB33, 4Z934, 5Z339, 5Z340	S602033	**1GYK2**
Swivel Assembly 90°	4NB22	S600682-1	**1GYK3**
Service Kit	4HK86, 2Z862, 5PG03, 4HK87, 2Z863, 6Z160, 4HK89, 2CAH9, 4HK90, 5PG06, 4Z314, 4HK91, 4HK88, 4NA83	S602293	**2PLE3**
Service Kit	2Z864, 4NA84, 2Z865, 4NA87, 4Z313, 6AB49, 4Z175, 2CAH8	S602299	**2PLE4**
Service Kit	4NA85, 4NA86, 5PG04, 5PG05, 4NA89 to 4NA91, 5PG08	S602302	**2PLE6**

Item	For Use With	Mfr. Model	Item No.
Coxreels®			
Ball Stop	Nominal Hose I.D. ⅜	131-3	**10C535**
Ball Stop	Nominal Hose I.D. ½	131-4	**10C536**
Swivel	SH, T, 1125 Series featuring ¾" inlet hose I.D.	426	**10C518**
Swivel	P, SH, C, 100, 1125 Series featuring ½" inlet hose I.D.	439	**10C517**
Swivel	LG, P, SH, C Series featuring ⅜" inlet hose I.D.	1935	**10C516**

**** No. 1GYJ8 includes an O-ring.***

GA GRAINGER APPROVED

Lead Hoses

- Max. temp.: 150°F
- More lead hoses available on Grainger.com®

Elongated fitting with proprietary crimp and adhesion process ensures the longest possible service life and simplifies reel installation.



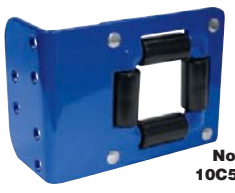
No. 4NB41

Hose Inside Dia. (in.)	Hose Length (ft.)	Thread	Swivel	Max. Pressure (psi)	Item No.
⅜	2	(M)NPT x (M)NPT	No	300	**4NB40**
½	2	(M)NPT x (M)NPT	No	300	**4NB41**
¾	3	(M)NPT x (M)NPT	No	300	**4NB42**
¼	2	(M)NPT x Swivel (M)NPT	Yes	300	**52KC29**
⅜	3	(M)NPT x Swivel (M)NPT	Yes	300	**52KC33**
½	5	(M)NPT x Swivel (M)NPT	Yes	300	**52KC37**
¾	2	(M)NPT x Swivel (M)NPT	Yes	300	**52KC38**

COXREELS® REELCRAFT

Hose Roller Guides

Allow hoses to be pulled smoothly through an opening without damaging the hose.



No. 10C541

Description	Nom. Hose ID (in.)	L (in.)	W (in.)	D (in.)	Brand	Mfr. Model	Item No.
Square, Spring Driven	¼ to ¾	4	4	2½	Coxreels	1728-1	**10C541**
Round	⅜ to ½	3⅛ dia.	3⅛ dia.	45/64	Reelcraft	HR1057	**4JNA9**
Square	½ to ¾	5⅛	5⅛	¾	Reelcraft	600168	**4JNC2**

Find more Barbs, Menders, Ferrules, Crimps and Die Modules go to Grainger.com®.



Beaded Hose Barb No. 6AFJ0



Hose Barb No. 6AFG7



Hose Mender No. 6AFH1



Hose Ferrule No. 2A733



Hose Crimper No. 6CEC4



Die Module No. 6CEC5

GA GRAINGER APPROVED

Hose Barbs, Menders, Ferrules, Crimper and Die Modules

Provide fast, easy hookup for bulk hose pipe thread fittings.

BEADED HOSE BARBS

Flat area between the barb and the body fitting allows the greatest area possible for clamping.

HOSE MENDERS

Connect on any 2 hoses or a broken hose that meets dimensional specifications.

BRASS HOSE FERRULES

Long-barrel ferrules crimp air hose to barb to form a permanent assembly.

HOSE CRIMPER

Portable or workbench-mounted crimper secures standard brass ferrules onto general purpose or heavy-duty air, water, and material hose for a complete hose assembly. Includes 5 die sets.

DIE MODULES

Hardened steel ribbed die sets can be used for crimping ¼" single-braid through ⅜" double-braid compressed air line hose or standard air line cables.

For Hose I.D.	Pipe Fitting Connection Type	Fitting Size	Fitting Gender	Nipple Grip Type	Item No.
Barbed Hose Fittings					
45° Elbow					
¼ in	Hose Barb x NPT	¼ in x ¼ in	Male x Male	No Knurl	**6AFR4**
⅜ in	Hose Barb x NPT	⅜ in x ¼ in	Male x Male	No Knurl	**6AFR5**
90° Elbow					
¼ in	Hose Barb x NPT	¼ in x ¼ in	Male x Male	No Knurl	**6AFG8**
¼ in	Hose Barb x NPT	¼ in x ⅛ in	Male x Male	No Knurl	**6AFH0**
¼ in	Hose Barb x NPT	¼ in x ⅜ in	Male x Male	No Knurl	**6AFR0**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ⅜ in	Male x Male	No Knurl	**6AFJ4**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ¼ in	Male x Male	No Knurl	**6AFK5**
⅜ in	Hose Barb x NPT	⅜ in x ¼ in	Male x Male	No Knurl	**6AFH4**
⅜ in	Hose Barb x NPT	⅜ in x ⅛ in	Male x Male	No Knurl	**6AFK2**
⅜ in	Hose Barb x NPT	⅜ in x ⅜ in	Male x Male	No Knurl	**6AFL6**
⅜ in	Hose Barb x NPT	⅜ in x ½ in	Male x Male	No Knurl	**6AFT1**
½ in	Hose Barb x NPT	½ in x ⅜ in	Male x Male	No Knurl	**6AFK8**
½ in	Hose Barb x NPT	½ in x ¼ in	Male x Male	No Knurl	**6AFR2**
¾ in	Hose Barb x NPT	¾ in x ¾ in	Male x Male	No Knurl	**6AFP2**
Straight					
⅛ in	Hose Barb x NPT	⅛ in x ⅛ in	Male x Male	Hex	**6AFP4**
3⁄16 in	Hose Barb x NPT	3⁄16 in x ⅛ in	Male x Male	Hex	**6AFP5**
3⁄16 in	Hose Barb x NPT	3⁄16 in x ¼ in	Male x Male	Hex	**6AFP6**
¼ in	Hose Barb x NPT	¼ in x ⅛ in	Male x Male	Hex	**6AFH3**
¼ in	Hose Barb x NPT	¼ in x ⅛ in	Male x Female	Hex	**6AFL0**
¼ in	Hose Barb x NPT	¼ in x ⅜ in	Male x Male	Hex	**6AFN2**
¼ in	Hose Barb x NPT	¼ in x ¼ in	Male x Female	Hex	**6AFN5**
¼ in	Hose Barb x NPT	¼ in x ¼ in	Male x Male	Hex	**6AFP0**
¼ in	Hose Barb x NPT	¼ in x ¼ in	Male x Male	Hex	**6AFP7**
¼ in	Hose Barb x UNF	¼ in x 7⁄16 in	Male x Female	Hex	**6AFR6**
¼ in	Hose Barb x NPSM	¼ in x ¼ in	Male x Female	Hex	**6AFR9**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ⅛ in	Male x Male	Hex	**6AFK6**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ⅜ in	Male x Male	Hex	**6AFK7**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ¼ in	Male x Male	Hex	**6AFL3**
5⁄16 in	Hose Barb x NPT	5⁄16 in x ¼ in	Male x Female	Hex	**6AFR3**
⅜ in	Hose Barb x NPT	⅜ in x ⅛ in	Male x Male	Hex	**6AFG7**
⅜ in	Hose Barb x NPT	⅜ in x ¼ in	Male x Male	Hex	**6AFH6**
⅜ in	Hose Barb x NPT	⅜ in x ⅜ in	Male x Female	Hex	**6AFN1**
⅜ in	Hose Barb x NPT	⅜ in x ¼ in	Male x Female	Hex	**6AFN3**
⅜ in	Hose Barb x NPT	⅜ in x ½ in	Male x Male	Hex	**6AFN4**
⅜ in	Hose Barb x NPT	⅜ in x ⅜ in	Male x Male	Hex	**6AFN8**
⅜ in	NPSM x Hose Barb	⅜ in x ⅜ in	Male x Male	Hex	**6AFP8**
⅜ in	Hose Barb x UNF	⅜ in x ⅜ in	Male x Female	Hex	**6AFR8**
⅜ in	Hose Barb x NPSM	⅜ in x ⅜ in	Male x Female	Hex	**6AFT0**
⅜ in	Hose Barb x NPT	⅜ in x ⅛ in	Male x Female	Hex	**6AFT2**
½ in	Hose Barb x NPT	½ in x ¼ in	Male x Male	Hex	**6AFG9**
½ in	Hose Barb x NPT	½ in x ⅜ in	Male x Male	Hex	**6AFH2**
½ in	Hose Barb x NPT	½ in x ¾ in	Male x Male	Hex	**6AFL7**
½ in	Hose Barb x NPT	½ in x ½ in	Male x Female	Hex	**6AFN0**
½ in	Hose Barb x NPT	½ in x ½ in	Male x Male	Hex	**6AFN9**
½ in	Hose Barb x NPT	½ in x ⅜ in	Male x Female	Hex	**6AFP3**
½ in	Hose Barb x NPT	½ in x ½ in	Male x Male	Hex	**6AFP9**

For Hose I.D.	Pipe Fitting Connection Type	Fitting Size	Fitting Gender	Nipple Grip Type	Item No.
½ in	NPSM x Hose Barb	½ in x ½ in	Female x Male	Hex	**6AFR1**
⅝ in	Hose Barb x NPT	⅝ in x ⅜ in	Male x Male	Hex	**6AFJ9**
⅝ in	Hose Barb x NPT	⅝ in x ¾ in	Male x Male	Hex	**6AFL2**
⅝ in	Hose Barb x NPT	⅝ in x ½ in	Male x Male	Hex	**6AFL4**
¾ in	Hose Barb x NPT	¾ in x ½ in	Male x Male	Hex	**6AFL8**
¾ in	Hose Barb x NPT	¾ in x ¾ in	Male x Male	Hex	**6AFN6**
1 in	Hose Barb x NPT	1 in x ¾ in	Male x Male	Hex	**6AFL5**
1 in	Hose Barb x NPT	1 in x 1 in	Male x Male	Hex	**6AFN7**
Barbed Hose Menders					
Brass					
¼ in	Hose Barb x Hose Barb	¼ in x ¼ in	Male x Male	—	**6AFH1**
5⁄16 in	Hose Barb x Hose Barb	5⁄16 in x 5⁄16 in	Male x Male	—	**6AFK9**
⅜ in	Hose Barb x Hose Barb	⅜ in x ⅜ in	Male x Male	—	**6AFH5**
½ in	Hose Barb x Hose Barb	½ in x ½ in	Male x Male	—	**6AFL9**
Beaded Hose Fittings					
90° Elbow					
⅜ in	Hose Barb x NPT	⅜ in x ⅜ in	Male x Male	—	**6AFJ7**
½ in	Hose Barb x NPT	½ in x ⅜ in	Male x Male	—	**6AFJ0**
½ in	Hose Barb x NPT	½ in x ½ in	Male x Male	—	**6AFL1**
⅝ in	NPT x Hose Barb	⅜" x ⅝"	Male x Male	—	**6AFJ6**
⅝ in	Hose Barb x NPT	⅝ in x ½ in	Male x Male	—	**6AFK1**
¾ in	Hose Barb x NPT	¾ in x ½ in	Male x Male	—	**6AFK0**
Straight					
⅜ in	Hose Barb x NPT	⅜ in x ⅜ in	Male x Male	—	**6AFJ8**
½ in	Hose Barb x NPT	½ in x ⅜ in	Male x Male	—	**6AFH8**
½ in	Hose Barb x NPT	½ in x ½ in	Male x Male	—	**6AFK3**
⅝ in	Hose Barb x NPT	⅝ in x ⅜ in	Male x Male	—	**6AFH7**
⅝ in	Hose Barb x NPT	⅝ in x ½ in	Male x Male	—	**6AFJ3**
¾ in	Hose Barb x NPT	¾ in x ½ in	Male x Male	—	**6AFJ1**
¾ in	Hose Barb x NPT	¾ in x ¾ in	Male x Male	—	**6AFK4**
1 in	Hose Barb x NPT	1 in x ¾ in	Male x Male	—	**6AFJ5**

Inside Dia.	Hole Dia.	Barb Size	Item No.
Brass Hose Ferrules			
0.525"	0.406"	¼"	**2A733**
0.725"	0.500"	⅜"	**2A734**
0.850"	0.687"	½"	**2A735**

Cap.	For Use With	Item No.
Hose Crimper		
¼ to ⅜"	Hose Barbs and Ferrules	**6CEC4**

Crimping Cap.	Replacement Die Code	Item No.
Die Modules For Use With No. 6CEC4		
⅜	1-63	**6CEC5**
¼ to ⅜	2-63:58	**6CEC6**
¼	3-58:53	**6CEC7**
¼	4-53:48	**6CEC8**
¼ to ⅜	5-48:68	**6CEC9**
⅜	6-68	**6CED0**

GA GRAINGER APPROVED

Safety Cables

Carbon steel cables prevent hose whip if couplings or clamp devices accidentally separate. Max. working pressure: 125 psi for air only.



No. 3MC04

Description	Cable Dia.	Hose I.D.	L	Item No.
Hose to Hose	⅛"	½" to 1¼"	20¼"	**3MC05**
	¼"	1½" to 3"	38"	**3MC04**
Hose to Tool	⅛"	½" to 1¼"	20¼"	**3MC06**
	¼"	1½" to 3"	38"	**3MC07**



No. 6X423



No. 6X426

GA GRAINGER APPROVED

Reusable Hose Fittings

Screw-on brass fittings are field installable using 2 standard wrenches. For use with rubber hoses.

HOSE MENDERS

Use to make quick and secure repairs. 250 psi max.

For Hose I.D.	For Hose O.D.	Thread Size	Thread Type	Item No.
Hydraulic Hose Fitting				
	½"	¼"	NPT	**6X423**
¼"	5⁄8"	¼"	NPT	**2X769**
⅜"	11⁄16"	⅜"	NPT	**6X424**
½"	13⁄16"	½"	NPT	**6X425**
Barbed Hose Mender				
¼"	½"	—	—	**6X426**
	5⁄8"	—	—	**2X770**
⅜"	11⁄16"	—	—	**6X427**


No. 3LX96


No. 3LX95

GA GRAINGER APPROVED

Universal Couplings

- Constructed of malleable iron
- Same gasket, safety clip, and lanyard for all coupling sizes, except self locking couplings use gasket No. 36LH62
- Gasket temp. range: -20° to 160°F

A sexless common head design eliminates mismatched fitting and allows direct locking connection between any 2 fittings from ¼" to 1". Nos. 6YZH1 to 6YZH4 do not require a pin.

Note: Do not use coupling for steam service. Rated for air service only, up to 110 psi.

Hose Fitting Size	(F)NPT END Item No.	(M)NPT END Item No.	HOSE END Item No.	BLANK END Item No.	(F)NPT SELF LOCKING Item No.	(M)NPT SELF LOCKING Item No.
¼ in	3LZ01	3LX98	—	—	—	—
⅜ in	3LX99	3LX97	3LZ02	—	—	—
½ in	3LX92	3LX91	3LX86	—	6YZH1	6YZH3
¾ in	3LX96	3LX95	3LX94	—	6YZH2	6YZH4
1 in	3LX90	3LX89	3LX88	—	—	—
⅝ in	—	—	3LX93	—	—	—
	—	—	—	3LX85	—	—

Description	Pkg. Qty.	Item No.
Universal Coupling Triple Connection	1	3LX87
Safety Clip	25	3LX83
Nylon Lanyard	25	3LX84
Gasket	50	3LZ03

GA GRAINGER APPROVED

Steam Fittings

Constructed of durable steel bar stock. Fittings can be used in steam applications, if clamps are used. For use with air, water, fluid petroleum, and chemicals.


No. 3LZ70

Hose Size (in.)	(M)NPT Size (in.)	Item No.
½	¼	3LZ76
	⅜	3LZ77
	½	3LZ70
	¾	3LZ75
¾	½	3LZ73
	¾	3LZ74
	1	3LZ72
1	1	3LZ71

GA GRAINGER APPROVED

Steam Clamps

Allow fittings and couplers to be used for steam applications. Clamps need to be sized up to both I.D. and O.D. of hose.


No. 3LX82

Hose Inside Dia. (in.)	Min. Hose Outside Dia. (in.)	Max. Hose Outside Dia. (in.)	Torque (ft.-lb.)	Item No.
2 Bolt				
⅜	1 1/16	⅞	6	3LZ20
½	1 3/16	1 5/16	6	3LZ27
	1 5/16	1 1/16	12	3LZ07
	1	1 3/16	6	3LX81
	1 1/16	1 3/16	12	3LZ08
¾	1 ⅛	1 5/16	21	3LX82
	1 5/32	1 9/32	21	3LZ12
	1 3/16	1 5/16	21	3LZ11
	1 5/16	1 ½	21	3LZ09
1	1 5/16	1 ½	21	3LX79
	1 ½	1 13/16	21	3LX80
4 Bolt				
1	1 1/32	1 23/32	21	3LZ10
	1 1/16	1 15/16	21	3LZ05
	1 15/16	2 ⅛	21	3LZ06

GA GRAINGER APPROVED

Duct Connectors

Permanently or temporarily connect hoses to create longer lengths. Made from 304 stainless steel.


No. 2TA37


No. 2TA50

Outside Dia. (in.)	L (in.)	Item No.
Ducting Hose Connectors		
4	4	2TA34
5	4	2TA35
6	4	2TA36
8	4	2TA37
10	4	2TA38
12	4	2TA39
Inside Dia. (in.)	**W (in.)**	**Item No.**
Quick-Release Clamps		
4	⅞	2TA48
6	⅞	2TA49
8	⅞	2TA50
10	⅞	2TA51
12	⅞	2TA52

GA GRAINGER APPROVED

Constant Tension Clamps

- ⅝" band width
- 300 stainless steel band/housing/bridge
- Pkg. qty.: 10

Spring design helps to eliminate "cold flow" leakage. 0.028"-thick clamps, 142 in.-lb. of max. torque.


No. 16P249

Min. Clamp Dia.	Max. Clamp Dia.	HOSE CLAMP SCREW MATERIAL: Plated Carbon Steel Item No.	HOSE CLAMP SCREW MATERIAL: 410 Stainless Steel Item No.
1"	1¾"	16P218	16P234
1¼"	2⅛"	16P219	16P235
1¾"	2⅝"	16P220	16P236
2¼"	3⅛"	16P221	16P237
2¾"	3⅝"	16P222	16P238
3¼"	4⅛"	16P223	16P239
3¾"	4⅝"	16P224	16P240
4¼"	5⅛"	16P225	16P241
4¾"	5⅝"	16P226	16P242
5¼"	6⅛"	16P227	16P243
5¾"	6⅝"	16P228	16P244
6¼"	7⅛"	16P229	16P245
6¾"	7⅝"	16P230	16P246
7¼"	8⅛"	16P231	16P247
7¾"	8⅝"	16P232	16P248
8¼"	9⅛"	16P233	16P249

GA GRAINGER APPROVED

Ground Joint Coupling Spud


No. 3ATP7

- Zinc-plated construction
- Max. temp. 450°F

For use with synthetic rubber steam hose.

Size (in.)	(M)NPT Size (in.)	Hose Size (in.)	Item No.
½	½	½	3ATP7
¾	¾	¾	3ATP8
1	1	1	3ATP9



GA GRAINGER APPROVED

Industrial-Strength Hose Clamps—68 Series

- 9/16" band width
- 5/16" 410 stainless steel hex head screw
- 201 stainless steel band/housing
- Pkg. qty.: 10

No spot welds or staking; suitable for industrial sealing applications. Interlocked design resists rupture and shearing.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
6	3/8"	7/8"	5X443
10	1/2"	1 1/16"	5X444
12	1/2"	1 1/4"	1A529
16	1 1/16"	1 1/2"	4XZ77
20	3/4"	1 3/4"	5X445
36	3/4"	2 3/4"	2W404
24	1"	2"	2W402
28	1 1/4"	2 1/4"	1A530
44	1 1/4"	3 1/4"	2W405
32	1 1/2"	2 1/2"	2W403
64	2 1/2"	4 1/2"	5X446
72	3"	5"	1A531
104	5"	7"	1A532



GA GRAINGER APPROVED

Snaplock® Quick-Release Hose Clamps

- Pkg. qty.: 10

Use reusable worm-drive hose clamps for closed system applications where clamp must be disengaged to be applied.

Serial	Band Size	Hex Head Screw	Screw Material	Band/Housing Material
56 Series	9/16"	5/16"	Carbon Steel	201 SS
58 Series	9/16"	3/8"	410 SS	201 SS

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	56 SERIES Item No.	58 SERIES Item No.
12	1/2"	1 1/4"	4XZ72	1XHF4
20	3/4"	1 3/4"	1XHE7	1XHF5
28	1"	2 1/4"	4XZ74	1XHF7
36	1"	2 3/4"	1XHE9	1XHF8
56	1"	4"	1XHF1	1XHG1
24	1 1/16"	2"	1XHE8	1XHF6
48	1 1/2"	3 1/2"	4XZ75	1XHF9
72	2"	5"	1XHF2	1XHG2
88	2"	6"	4XZ76	1XHG3
188	2"	12 1/4"	4XZ73	—
104	2 7/8"	7 3/4"	1XHF3	1XHG4



GA GRAINGER APPROVED

Miniature General-Purpose Hose Clamps

- 5/16" band width
- 301 stainless steel band/housing
- Pkg. qty.: 10

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
62M Series, 1/4" 300 SS Hex-Head Screw			
4	5/16"	5/8"	1A527
5	5/16"	3/4"	5CZD3
6	5/16"	7/8"	1A528
10	1/2"	1 1/16"	5CZD4
16	1 1/16"	1 1/2"	5CZD5
20	3/4"	1 3/4"	5CZD6
24	1"	2"	5CZD7
32	1 1/2"	2 1/2"	5CZD8
36	1 3/4"	2 3/4"	5CZD9
62P Series, 1/4" Zinc-Plated Hex-Head Screw			
4	5/16"	5/8"	5X441
6	5/16"	7/8"	5X442



GA GRAINGER APPROVED

General-Purpose Hose Clamps

- Pkg. qty.: 10

Interlocked construction resists shear.

Serial	Band Size*	Hex Head Screw	Screw Material	Band/Housing Material
52 Series	1/2"	5/16"	Carbon Steel	201 SS/Carbon Steel
57 Series	1/2"	5/16"	Carbon Steel	201 SS
63-4 Series	9/16"	5/16"	305 SS	301 SS
67-1 Series	1/2"	5/16"	410 SS	201 SS

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	52 SERIES Item No.	57 SERIES Item No.	63-4 SERIES Item No.	67-1 SERIES Item No.
4	5/16"	5/8"	16P269 *	—	—	—
6	3/8"	7/8"	16P271	2PA57	5CYZ3	16P292
	7/16"	1 1/16"	16P270	—	—	—
8	7/16"	1"	16P272	2PA58	5CYZ4	16P293
10	1/2"	1 1/16"	16P273	2PA59	5CYZ5	16P294
12	1/2"	1 1/4"	16P274	2PA60	5CYZ6	16P295
16	1 1/16"	1 1/2"	16P275	2PA61	5CYZ7	16P296
20	3/4"	1 3/4"	16P276	2PA62	5CYZ8	16P297
36	3/4"	2 3/4"	16P280	2PA66	5CZA2	16P302
24	1"	2"	16P277	2PA63	5CYZ9	16P298
40	1"	3"	16P281	2PA67	5CZA3	16P303
28	1 1/4"	2 1/4"	16P278	2PA64	5CZA0	16P299
44	1 1/4"	3 1/4"	16P282	2PA68	5CZA4	16P304
32	1 1/2"	2 1/2"	16P279	2PA65	5CZA1	16P301
48	1 1/2"	3 1/2"	16P283	2PA69	5CZA5	16P305
52	1 3/4"	3 3/4"	16P284	2PA70	5CZA6	16P306
56	2"	4"	16P285	2PA71	5CZA7	—
60	2 1/4"	4 1/4"	—	—	—	16P308
64	2 1/2"	4 1/2"	16P286	2PA72	5CZA8	16P309
56	3"	4"	—	—	—	16P307
72	3"	5"	16P287	2PA73	5CZA9	16P310
80	3 1/2"	5 1/2"	16P288	2PA74	5CZC0	16P311
88	4"	6"	16P289	2PA75	5CZC1	16P312
96	4 1/2"	6 1/2"	16P290	2PA76	5CZC2	16P313
104	5"	7"	16P291	2PA77	5CZC3	16P314

** No. 16P269 has a 5/16" band size.*



No. 4XZ79

GA GRAINGER APPROVED

6X Series High-Torque/ Tension Hose Clamps

- 800 lb. of tension at 150 in.-lb. of torque
- 5/8" band width
- 5/16" 410 stainless steel hex head screw
- 300 stainless steel band/housing

Designed for high-vibration and stubborn leakage applications. Extra band notches allow greater open/close working diameters.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.	Pkg. Qty.
262	1 1/4"	2 5/8"	4XZ78	10
412	2"	4 1/8"	4XZ79	10
612	4"	6 1/8"	4XZ80	5
912	6"	9 1/8"	4XZ81	5



No. 1XGY5

GA GRAINGER APPROVED

Lined Hose Clamps

- 1/2" band width
- 5/16" plated steel hex screw
- 201 stainless steel housing
- Pkg. qty.: 10

Clamps are smooth-lined to protect soft hoses from shearing.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
6	1/2"	7/8"	1XGY5
8	5/8"	1"	1XGY6
10	1 1/16"	1 1/16"	1XGY7
12	1 1/16"	1 1/4"	1XGY8
16	3/4"	1 1/2"	1XGY9
20	1"	1 3/4"	1XGZ1
24	1 1/16"	2"	1XGZ2
28	1 5/16"	2 1/4"	1XGZ3
32	1 9/16"	2 1/2"	1XGZ4
36	1 13/16"	2 3/4"	1XGZ5
40	2 1/16"	3"	1XGZ6
44	2 5/16"	3 1/4"	1XGZ7
48	2 9/16"	3 1/2"	1XGZ8
52	2 13/16"	3 3/4"	1XGZ9
56	3 1/16"	4"	1XHA1
60	3 5/16"	4 1/4"	1XHA2
64	3 9/16"	4 1/2"	1XHA3
72	4 1/16"	5"	1XHA4

GA GRAINGER APPROVED

UPC-IAPMO-Approved Hose Clamps

- ½" band width
- Pkg. qty.: 10

Series 67-4 are 301 stainless steel band/housing. Series 67-5 are 201 stainless steel band/housing.



SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	SERIES 67-4, 5/16" 305 SS HEX HEAD SCREW Item No.	SERIES 67-5, 5/16" 204 SS HEX HEAD SCREW Item No.
6	3/8"	7/8"	1XHB5	5CZE0
8	7/16"	1"	1XHB6	5CZE1
10	1/2"	1 1/16"	1XHB7	5CZE2
12	1/2"	1 1/4"	1XHB8	5CZE3
16	11/16"	1 1/2"	1XHB9	5CZE4
20	3/4"	1 3/4"	1XHC1	5CZE5
24	1"	2"	1XHC2	5CZE6
28	1 1/4"	2 1/4"	1XHC3	5CZE7
32	1 1/2"	2 1/2"	1XHC4	5CZE8
36	3/4"	2 3/4"	1XHC5	5CZE9
40	1"	3"	1XHC6	5CZF0
44	1 1/4"	3 1/4"	1XHC7	5CZF1
48	1 1/2"	3 1/2"	1XHC8	5CZF2
52	1 3/4"	3 3/4"	1XHC9	—
56	2"	4"	1XHD1	—
60	2 1/4"	4 1/4"	1XHD2	—
64	2 1/2"	4 1/2"	1XHD3	—
72	3"	5"	1XHD4	—
80	3 1/2"	5 1/2"	1XHD5	—
88	4"	6"	1XHD6	—
96	4 1/2"	6 1/2"	1XHD7	—
104	5"	7"	1XHD8	—

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
138	1 3/8"	1 9/16"	1XGU2
150	1 1/2"	1 5/8"	1XGU3
163	1 5/8"	1 7/8"	1XGU4
175	1 3/4"	2"	1XGU5
188	1 7/8"	2 3/16"	1XGU6
200	2"	2 5/16"	1XGU7
213	2 1/8"	2 7/16"	1XGU8
225	2 1/4"	2 9/16"	1XGU9
238	2 3/8"	2 11/16"	1XGV1
250	2 1/2"	2 13/16"	1XGV2
263	2 5/8"	2 15/16"	1XGV3
275	2 3/4"	3 1/16"	1XGV4
288	2 7/8"	3 3/16"	1XGV5
300	3"	3 5/16"	1XGV6
313	3 1/8"	3 7/16"	1XGV7
325	3 1/4"	3 9/16"	1XGV8
338	3 3/8"	3 11/16"	1XGV9
350	3 1/2"	3 13/16"	1XGW1
363	3 5/8"	3 15/16"	1XGW2
375	3 3/4"	4 1/16"	1XGW3
400	4"	4 5/16"	1XGW4
425	4 1/4"	4 9/16"	1XGW5
450	4 1/2"	4 13/16"	1XGW6
475	4 3/4"	5 1/16"	1XGW7
500	5"	5 5/16"	1XGW8
525	5 1/4"	5 9/16"	1XGW9
550	5 1/2"	5 13/16"	1XGX1
575	5 3/4"	6 1/16"	1XGX2
600	6"	6 5/16"	1XGX3
625	6 1/4"	6 9/16"	1XGX4
650	6 1/2"	6 13/16"	1XGX5
675	6 3/4"	7 1/16"	1XGX6
700	7"	7 5/16"	1XGX7
725	7 1/4"	7 9/16"	1XGX8
750	7 1/2"	7 13/16"	1XGX9
775	7 3/4"	8 1/16"	1XGY1
800	8"	8 5/16"	1XGY2
825	8 1/4"	8 9/16"	1XGY3
850	8 1/2"	8 13/16"	1XGY4



GA GRAINGER APPROVED

30011 Series T-Bolt Hose Clamps

- ¾" band width
- 7/16" 300 stainless steel hex head screw
- 300 stainless steel band and trunnion
- Pkg. qty.: 5

Marine-grade clamps are excellent for high-vibration, large-diameter applications.

GA GRAINGER APPROVED

Center-Punch Band Clamps

- Pkg. qty.: 10

Double-wrapped for firm and easy locking. Install with Nos. 1VD40 or 1VD41 tools, sold separately, this page.



W (in.)	For Hose O.D. Min. (in.)	For Hose O.D. Max. (in.)	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
3/8	0.75	0.88	3LZ50	3LZ62
	1.31	1.44	3LZ51	3LZ63
5/8	0.94	1.06	3LZ52	3LZ64
	1.19	1.31	3LZ53	3LZ65
	1.44	1.56	3LZ54	3LZ66
	1.69	1.81	3LZ55	3LZ67
	1.94	2.06	3LZ56	3LZ68
	2.19	2.31	3LZ57	3LZ69
	2.44	2.56	3LZ46	3LZ58
	2.69	2.81	3LZ47	3LZ59
	2.94	3.06	3LZ48	3LZ60
	3.94	4.06	3LZ49	3LZ61





GA GRAINGER APPROVED

Center-Punch Band Clamp Tools

Description	Item No.
For High-Production Use	1VD40
For Intermittent Use	1VD41

BAND-IT®

Preformed Center Punch Clamps

- Pkg. qty.: 10

Clamps are double-wrapped, with 201 stainless steel buckles for added strength. Can be installed with Center Punch Tool Nos. 2LPG7and 2LPK4, sold separately on page 2536.



Width (in.)	Min. Clamp Dia. (in.)	Max. Clamp Dia. (in.)	201 STAINLESS STEEL Item No.	GALVANIZED CARBON STEEL Item No.
3/8	9/16	13/16	2LPF4	2LPD1
	9/16	1 3/8	2LPG6	2LPF3
5/8	3/4	1	2LPF5	2LPD2
	3/4	1 1/4	2LPF6	2LPD3
	3/4	1 1/2	2LPF7	2LPD4
	3/4	1 3/4	2LPF8	2LPD5
	3/4	2	2LPF9	2LPD6
	3/4	2 1/4	2LPG1	2LPD7
	3/4	2 1/2	2LPG2	2LPD8
	3/4	2 3/4	2LPG3	2LPD9
	3/4	3	2LPG4	2LPF1
	3/4	3 1/2	6YPZ5	6YPZ4
	3/4	4	2LPG5	2LPF2
	3/4	4 1/2	6YPZ7	6YPZ6
	3/4	5	5DLG3	5DLG2
	3/4	6	5DLG5	5DLG4
	3/4	7	5DLG7	5DLG6
	3/4	8	5DLG9	5DLG8

BAND-IT®

Preformed Junior® Clamps

Small diameter and smooth I.D. allows superior sealing. Can be installed with Tool No. 2LNP7, sold separately on page 2536.



W (in.)	Min. Clamp Dia. (in.)	Max. Clamp Dia. (in.)	Thickness (in.)	Pkg. Qty.	201 STAINLESS STEEL Item No.	GALVANIZED CARBON STEEL Item No.
1/4	1/2	13/16	0.020	50	5DLH5	—
	1/2	1	0.020	50	5DLH6	—
3/8	9/16	13/16	0.025	24	2LPG8	2LPH9
	9/16	1 3/8	0.025	24	2LPG9	2LPJ1
1/2	3/4	1	0.030	24	5DLH1	5DLH7
	3/4	1 1/4	0.030	24	5DLH2	5DLH8
5/8	1	1 1/2	0.030	24	5DLH3	5DLH9
	1 1/4	1 3/4	0.030	24	2LPH1	2LPJ2
	1	2	0.030	24	5DLH4	5DLJ0
	1	2 1/4	0.030	24	6YRA0	6YRA3
	1 1/4	2 1/2	0.030	24	2LPH2	2LPJ3
3/4	1 3/4	2 3/4	0.030	24	2LPH3	2LPJ4
	1	3	0.030	24	6YRA1	6YRA4
	1 3/4	3 1/2	0.030	24	2LPH4	2LPJ5
	1 3/4	4	0.030	16	2LPH5	2LPJ6
	1	4 1/2	0.030	16	6YRA2	6YRA5
	1 3/4	5	0.030	16	2LPH6	2LPJ7
	1 3/4	6	0.030	16	2LPH7	2LPJ8
	1 3/4	7	0.030	16	2LPH8	2LPJ9



No. 4E600



No. 4E571



No. 10N204

W (in.)	Nom. Size (in.)	Closed - Open (in.)	Item No.
2-Ear Hose Clamps - Stainless Steel			
0.236	1/4	0.197-0.276	**4E583**
0.276	5/16	0.276-0.354	**3DUP3**
	3/8	0.319-0.433	**4E585**
	1/2	0.425-0.512	**4E586**
0.295	9/16	0.492-0.591	**4E587**
0.315	19/32	0.551-0.669	**3DUP4**
	5/8	0.591-0.709	**4E588**
0.335	3/4	0.638-0.787	**4E589**
0.354	7/8	0.752-0.906	**4E590**
0.394	13/16	0.709-0.866	**3DUP5**
	15/16	0.831-0.984	**3DUP6**
	1	0.886-1.063	**4E591**
	1 1/16	0.945-1.102	**3DUP7**
	1 3/16	1.035-1.220	**4E592**
2-Ear Hose Clamps - Zinc-Plated			
0.138	5/32	0.122-0.161	**3DUL9**
	11/64	0.138-0.177	**3DUN1**
0.197	3/16	0.134-0.197	**3DUN2**
0.236	1/4	0.197-0.276	**4E595**
0.276	5/16	0.276-0.354	**4E596**
	3/8	0.319-0.433	**4E597**
	1/2	0.425-0.512	**4E598**
0.295	9/16	0.492-0.591	**4E599**
0.315	19/32	0.551-0.669	**3DUN3**
	5/8	0.591-0.709	**4E600**
0.335	3/4	0.638-0.787	**4E601**
0.354	13/16	0.709-0.866	**3DUN4**
	7/8	0.748 - 0.906	**4E602**
0.394	15/16	0.831-0.984	**3DUN5**
	1	0.886-1.063	**4E603**
	1 1/16	0.945-1.102	**3DUN6**
	1 1/8	1.035 - 1.220	**4E604**
	1 3/16	1.154-1.339	**3DUN7**
	1 7/16	1.260-1.457	**3DUN8**
	1 1/2	1.378-1.575	**3DUN9**
	1 5/8	1.480-1.693	**3DUP1**
	1 3/4	1.598-1.811	**3DUP2**
Stepless® Ear Clamps - Stainless Steel			
0.197	3/8	0.307-0.374	**5EFC5**
	25/64	0.327-0.394	**5EFC6**
	13/32	0.346 a 0.413	**5EFC7**
	27/64	0.362-0.429	**5EFD0**
	7/16	0.378-0.445	**5EFC8**
	29/64	0.398-0.465	**5EFC9**
0.276	15/32	0.386-0.484	**3DUP8**
	1/2	0.406-0.504	**3DUP9**
	1/2	0.425-0.524	**4E571**
	17/32	0.445-0.543	**3DUR1**
	35/64	0.453-0.551	**4E572**
	9/16	0.472-0.571	**4E573**
	19/32	0.504-0.602	**3DUR4**
	5/8	0.520-0.618	**4E574**
	5/8	0.539-0.638	**3DUR6**
	11/16	0.571-0.669	**4E575**
	23/32	0.602-0.728	**5EFD4**
	7/8	0.764-0.890	**5EFD5**
	1	0.882-1.008	**5EFD6**
	1 1/8	1.000-1.126	**5EFD7**
	1 1/4	1.118-1.244	**5EFD8**
Stepless® Screw Clamp			
0.375	121/128	0.708-0.945	**10N204**
	1 7/64	0.866-1.10	**10N205**
	1 27/64	1.18-1.42	**10N208**
	1 37/64	1.34-1.57	**10N209**
	2 31/64	2.52-2.95	**10N212**

Description	Item No.
Welding Hose Repair Kit and Clamp Kits	
Welding Hose Repair Kit	**2PU25**
2-Ear Hose Clamp Kit	**4TX96**
Stepless® Ear Clamp Kit	**2PU26**
Jaw Pincers	
Standard Jaw Pincers	**4E607**
Clamp Tool	**49JZ43**
Clamp Tool	**49JZ44**



No. 4TX96



No. 2PU26



No. 4E607



No. 49JZ44

OETIKER®

Crimp Clamps

2-EAR HOSE CLAMPS

1-pc. design provides positive clamping action and tamperproof seal.

STEPLESS® EAR CLAMPS—STAINLESS STEEL

Guarantee a 360° seal using an innovative tongue-in-groove design that leaves no steps, gaps, or unbridged parts on the inner circumference. Spring action lets clamp "breathe" without loosening; no need to retighten.

WELDING HOSE REPAIR KIT

For quick repairs to oxygen/acetylene welding lines. Includes standard jaw pincers; 40 of 9/16" 2-ear clamps; 10 of 1/2" 2-ear clamps; 6 each: 1/4" brass nipples, acetylene B left-hand brass nuts, and oxygen B right-hand brass nuts; 4 each: 9/16" twin clamps and 1/4" hose menders; and 2 each: 3/16" brass nipples and 3/16" brass hose menders.

2-EAR HOSE CLAMP KIT

Plastic case contains standard jaw pincers; 15 each: 5/16", 3/8", 1/2", 9/16", and 5/8" clamps; and 12 each: 3/4", 7/8", 15/16", and 1" clamps.

STEPLESS® EAR CLAMP KIT

Plastic case contains standard jaw pincers and 10 each of 1-ear clamp sizes: 1/2", 9/16", 5/8", 23/32", 7/8", 1", 1 1/8", and 1 1/4".

JAW PINCERS

Used to close ear clamps. Made of forged steel.



BAND-IT®
Stainless Steel Cable Ties

- 0.026" thick
- Nylon 11-coated stainless steel
- Tensile strength: 100 psi

Self-locking, reusable ties can be applied by hand.

L	W	Item No.	For Use With	Pkg. Qty.	Item No.
201 Stainless Steel, Plastic Tote, Bulk Bands			**201 Stainless Steel Bulk Buckles**		
100 ft.	¾"	**16P349**	16P349	25	**16P352**
100 ft.	1"	**16P350**	16P350	25	**16P353**
100 ft.	1¼"	**16P351**	16P351	25	**16P354**



No. 2LNT2

BAND-IT®
Stainless Steel Banding

Can be installed with Clamping Tool Nos. 16P345, 2LNP6, 2LNP8, and 2LNP9, sold separately on page 2536. Must be used with a buckle or clip to form clamp and lock bands. Can be used in single- or double-wrap configurations. Colored bands have a fade-resistant finish. 50-ft. length.

W	Thickness	Type	Breaking Strength	Item No.
200/300 Stainless Steel, Plastic Tote				
½"	0.020"	200/300 SS	850 lb.	**5DLF7**
⅝"	0.020"	200/300 SS	1000 lb.	**5DLF6**
¾"	0.020"	200/300 SS	1275 lb.	**5DLF5**
201 Stainless Steel, Cardboard Box				
1¼"	0.044"	Uncoated	5500 lb.	**2LNU5**
201 Stainless Steel, Plastic Tote				
⅜"	0.025"	201 SS	900 lb.	**6YPY7**
½"	0.030"	Uncoated	1500 lb.	**2LNR3**
	0.025"	Black	1500 lb.	**2LNR9**
	0.025"	Red	1500 lb.	**2LNR4**
	0.025"	Orange	1500 lb.	**2LNR5**
	0.025"	Yellow	1500 lb.	**2LNR6**
	0.025"	Green	1500 lb.	**2LNR7**
	0.025"	Blue	1500 lb.	**2LNR8**
⅝"	0.030"	201 SS	1875 lb.	**5DLF8**
¾"	0.030"	Uncoated	2250 lb.	**2LNT1**
	0.030"	Black	2251 lb.	**2LNT2**
201 Stainless Steel, Plastic Tote, Bulk Bands				
¾"	0.044"	201 SS	1500 lb.	**16P349**
1"	0.044"	201 SS	1500 lb.	**16P350**
1¼"	0.044"	201 SS	1500 lb.	**16P351**
304 Stainless Steel, Plastic Tote				
½"	0.015"	Uncoated	600 lb.	**2LNV2**
⅝"	0.015"	304 SS	750 lb.	**5DLG1**
¾"	0.015"	Uncoated	900 lb.	**2LNV3**
316 Stainless Steel, Plastic Tote				
⅜"	0.025"	316 SS	750 lb.	**6YPY9**
½"	0.030"	Uncoated	1200 lb.	**2LNU3**
⅝"	0.025"	316 SS	1500 lb.	**6YPZ0**
¾"	0.030"	Uncoated	1800 lb.	**2LNU4**
Galvanized Carbon Steel, Plastic Tote				
½"	0.030"	Uncoated	1125 lb.	**2LNT8**
¾"	0.030"	Uncoated	1690 lb.	**2LNT9**
Steel, Plastic Tote				
⅝"	0.046"	—	750 lb.	**16P346**



BAND-IT®
Stainless Steel Ball Lock Ties

- 5⁄16"W, 0.010" thick
- 304 stainless steel
- Tensile strength: 300 psi
- Pkg. qty.: 50

Self-locking ties can be applied by hand.

Length (in.)	Item No.
7.9	**2LPC2**
14.2	**2LPC3**
20.4	**2LPC4**
26.8	**2LPC5**

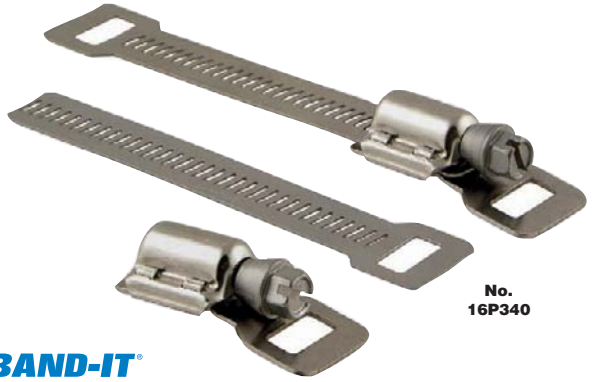
BAND-IT®
Clips, Buckles, and Brackets

Allow secure clamping of bands. Use with BAND-IT® stainless steel bands to create any size clamp. Can be used in a single- or double-wrap configuration to meet most clamping requirements.



Ear-Lokt Buckle
No. 2LNT3

Size	Material	For Use With	Item No.	Pkg. Qty.
ValuBanding Clips				
⅜"	200/300 Stainless Steel	6YPY7, 6YPY9	**6YPY6**	50
½"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNR1**	50
⅝"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9. 5DLF6	**5DLF4**	50
¾"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNR2**	50
Strapping Buckles				
Ear-Lokt				
⅜"	201 Stainless Steel	6YPY7, 6YPY9	**6YPY8**	50
	316 Stainless Steel	6YPY7, 6YPY9	**6YPZ1**	50
½"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNT3**	50
	316 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU7**	50
	Galvanized Carbon Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU1**	50
⅝"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9, 5DLF8	**5DLF9**	50
	316 Stainless Steel	5DLF6, 5DLF8, 6YPZ0	**6YPZ2**	50
¾"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNT5**	50
	316 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNU8**	50
	Galvanized Carbon Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNU2**	50
Ear-Lokt, Black				
½"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNT4**	50
¾"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNT6**	50
Giant				
1¼"	201 Stainless Steel	2LPC1, 2LNU5 & 1¼" Giant Band	**2LNU6**	10
Scru-Lokt				
½"	302 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU9**	10
¾"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ¾" Banding	**2LNV1**	10
Ultra-Lok®				
¾"	201 Stainless Steel	2LPL9, 2LPN1, 2LPK5 to 2LPK9	**2LPL1**	25
Brack-Its®				
Flared Leg				
½"	200/300 Stainless Steel	½" Bands and ½" Buckles	**2LNW1**	25
Straight Leg				
½"	200/300 Stainless Steel	½" Bands and ½" Buckles	**2LNW2**	25
Flared Leg Bolt				
¾"	200/300 Stainless Steel	½" to ¾" Bands and ½" to ¾" Buckles	**2LNV5**	25
Straight Leg Bolt				
¾"	200/300 Stainless Steel	½" to ¾" Bands and ½" to ¾" Buckles	**2LNV4**	25
Banding Bracket				
4¾"	Aluminum/Galvanized Carbon Steel	2LNR3 to 2LNR9, 2LNT1, 2LNT2, 2LNT8, 2LNT9, 2LNU3, 2LNU4, 2LNU5, 2LNV2, 2LNV3, 5DLF8, 5DLG1, 6YPZ0	**6YRA6**	10
Bolt Bolt Band Retainers				
¾"	Aluminum/Galvanized Carbon Steel	2LNR3 to 2LNR9, 2LNT1, 2LNT2, 2LNT8, 2LNT9, 2LNU3, 2LNU4, 2LNV2, 2LNV3, 5DLF8, 5DLG1, 6YPZ0	**6YRA7**	10
1¼"	Aluminum/Galvanized Carbon Steel	2LNT1, 2LNT2, 2LNT9, 2LNU4, 2LNU5, 2LNV3	**6YRA8**	10



No. 16P340

BAND-IT®
Scru-Seal Adjustable Kits

Use to create strong, adjustable clamps with ⅜" or ½"W stainless steel banding. Suitable for general clamping applications including insulation ducting, signage, and pole mounting of devices.

Includes	Mfr. Model	Item No.	Pkg. Qty.
10 Racks And 10 Housings	GRM211	**16P340**	10
5 Individual Packs of 10 Ft. 200/300SS ⅜" Banding, 3 Screw-Seals, and 3 Racks	GRM218	**2LPC9**	1
20 Screw-Seals, 20 Racks, and 80 Ft. 200/300 Stainless Steel ⅜" Band	GRM210	**2LPC8**	1

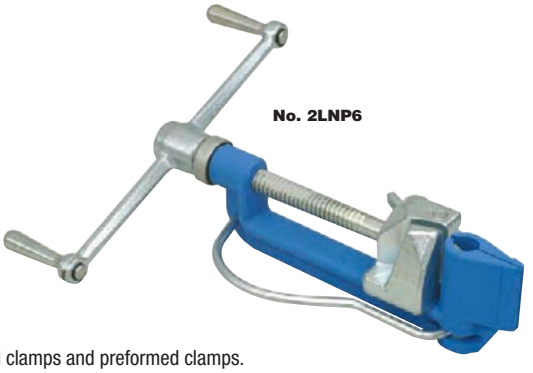
REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!





No. 2LNP6



No. 2LNP9

BAND-IT®
Banding and Clamping Tools

BAND CLAMP TOOLS
Designed for installation of band clamps and preformed clamps.

BAND TENSIONING RATCHET TOOL
For fast tensioning of band and buckle systems. Suitable for 3/16" to ¾" banding.

CENTER PUNCH TOOLS
Apply tension to the clamp, then cut off the clamp tail after locking.

HOSE CRIMPER ADAPTER KIT
For use with hand and pneumatic tools when installing Band-it® center-punch or junior-style clamps. Suitable for ⅜" to ⅝" banding.

KIT CUTTER BLADE BACK
For use with hand and pneumatic tools when installing BAND-IT® center-punch or junior-style clamps.



No. 5DLJ1

Description	For Use With	Includes	Cap.	Item No.	Pkg. Qty.
Band Clamp Tools					
For Band & Buckle Style Tools	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 - ¾"	**2LNP6**	1
For Junior Style Clamps	Preformed Junior Clamps	Built-In Cutter	¼ - ¾"	**2LNP7**	1
	Preformed Junior Clamps	Built-In Cutter	¾ - 1¼"	**2LPC1**	1
High Torque Band & Buckle Tool	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 - ¾"	**2LNP8**	1
Ratchet Band & Buckle Tool	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 - ¾"	**2LNP9**	1
Banding Tools					
For Band & Buckle Style Tools	Stainless Steel Bands	—	3/16" to ¾" Bands	**6YPY5**	1
For Junior Style Clamps	Stainless Steel Bands	—	3/16" to ⅜" Band Widths	**6YPZ9**	1
Band Tensioning Ratchet Tool					
For Band & Buckle Style Tools	—	—	—	**16P345**	1
Cable Tie Lock Adjustment Tool					
For Junior Style Clamps	Zip Tie Bands	Built-In Cutter	⅜" Wide Ties	**5DLJ1**	1
Center Punch Tools					
For Center Punch Clamps	Center Punch Bands	—	⅜, ⅝"	**2LPG7**	1
	Center Punch Bands	Adapter for ⅜" Band	⅝"	**2LPK4**	1
Heavy Duty Tool Adapter					
For Junior Style Clamp Tool	2LNP6	—	—	**5DLH0**	1
Hose Crimper Adapter Kit					
For Junior Style Clamp Tool	2LPK4	Adapter	—	**16P343**	1
Kit Cutter Blade Back					
For Junior Style Clamp Tool	2LNP5, 6YPZ8, 5DHL0, 2LPK1, 2LPK2	Universal Cutter Blade,Repair Parts	—	**16P348**	1
Tool Adapter					
For Junior Style Clamp Tool	2LNP6, 2LNP8	—	—	**6YPZ8**	1

Stainless Steel-Body Air Cylinders SPEEDAIRE®

- Max. operating pressure: 250 psi (17.23 bar)
- Operating temp. range: -10° to 165°F

Can tolerate moisture and many types of lubricants and solvents. For use where magnetic sensing piston is not required. Interchangeable with Bimba, Parker, SMC, Norgren, and other major manufacturers' cylinders.

Note: 6"-stroke models also available on Grainger.com®.

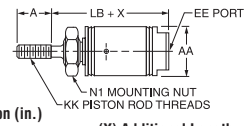
Bore Dia.	Stroke	Single Acting Nose Mount Item No.	Double Acting Pivot Mount Item No.	Double Acting Nose Mount Item No.	Single Acting Pivot Mount Item No.	Double Acting Double End Mount Item No.
Cylinders						
5/16"	1"	6CPY9	—	6CPV3	6CPZ8	6CZW9
	2"	6CPZ0	—	6CPV4	6CPZ9	6CZX0
	3"	6CPZ1	—	6CPV5	6CRA0	6CZX1
	4"	—	—	6CPV6	—	6CZX2
7/16"	1/2"	5ZEG7	5ZED0	5MMF5	5ZEK8	—
	1"	5ZEG9	5ZED1	5MMF6	5ZEK9	6CZX3
	1 1/2"	5ZEH0	5ZED2	5MMF7	5ZEL0	—
	2"	5ZEH1	5ZED3	5MMF8	5ZEL1	6CZX4
	3"	5ZEH2	5ZED4	5MMF9	5ZEL2	6CZX5
	4"	5ZEH3	5ZED5	5MMG0	5ZEL3	6CZX6
	5"	5ZEH4	5ZED6	5MMG1	5ZEL4	6CZX7
9/16"	1/2"	5ZEH6	—	5MME8	5ZEL5	5MMA8
	1"	5ZEH7	6CPX7	5MME9	5ZEL6	5MMA9
	1 1/2"	5ZEH8	—	5MMF0	5ZEL7	5MMC0
	2"	5ZEH9	6CPX8	5MMF1	5ZEL8	5MMC1
	3"	5ZEJ0	6CPX9	5MMF2	5ZEL9	5MMC2
	4"	5ZEJ1	6CPY0	5MMF3	5ZEN0	5MMC3
	5"	5ZEJ2	6CPY1	5MMF4	—	6CZX9
3/4"	1"	5ZEJ3	5ZED7	5MMG3	5ZEN1	5MMC4
	2"	5ZEJ4	5ZED8	5MMG4	5ZEN2	5MMC5
	3"	5ZEJ5	5ZED9	5MMG5	5ZEN3	5MMC6
	4"	—	5ZEE0	5MMG6	—	5MMC7
	5"	—	5ZEE1	5MMG7	—	5MMC8
7/8"	1"	6CPZ2	—	6CPV8	6CRA1	6CZY1
	2"	6CPZ3	—	6CPV9	6CRA2	6CZY2
	3"	6CPZ4	—	6CPW0	6CRA3	6CZY3
	4"	—	—	6CPW1	—	6CZY4
	5"	—	—	6CPW2	—	6CZY5
1 1/16"	1"	5ZEJ6	5ZEE3	5MMG9	5ZEN4	5MMD0
	2"	5ZEJ7	5ZEE4	5MMH0	5ZEN5	5MMD1
	3"	5ZEJ8	5ZEE5	5MMH1	5ZEN6	5MMD2
	4"	—	5ZEE6	5MMH2	—	5MMD3
	5"	—	5ZEE7	5MMH3	—	5MMD4
1 1/4"	1"	5ZEJ9	5ZEE9	5MMH5	6CRA4	6CZY7
	2"	5ZEK0	5ZEF0	5ZDZ7	6CRA5	6CZY8
	3"	5ZEK1	5ZEF1	5ZDZ8	6CRA6	6CZY9
	4"	—	5ZEF2	5ZDZ9	—	6CZZ0
	5"	5ZEA0	5ZEF3	—	—	6CZZ1
1 1/2"	1"	5ZEK2	5ZEF5	5ZEA2	5ZEN7	5MMD6
	2"	5ZEK3	5ZEF6	5ZEA3	5ZEN8	5MMD7
	3"	5ZEK4	5ZEF7	5ZEA4	5ZEN9	5MMD8
	4"	—	5ZEF8	5ZEA5	—	5MMD9
	5"	—	5ZEF9	5ZEA6	—	5MME0
1 3/4"	1"	6CPZ5	—	6CPW4	6CRA7	6CZZ3
	2"	6CPZ6	—	6CPW5	6CRA8	6CZZ4
	3"	6CPZ7	—	6CPW6	6CRA9	6CZZ5
	4"	—	—	6CPW7	—	6CZZ6
	5"	—	—	6CPW8	—	6CZZ7
2"	1"	5ZEK5	5ZEG1	5ZEA8	—	6CZZ9
	2"	5ZEK6	5ZEG2	5ZEA9	—	6DAA0
	3"	5ZEK7	5ZEG3	5ZEC0	—	6DAA1
	4"	—	5ZEG4	5ZEC1	—	6DAA2
	5"	6CRC1	5ZEG5	5ZEC2	—	6DAA3
2 1/2"	1"	—	—	5ZEC4	—	5MME2
	2"	—	—	5ZEC5	—	5MME3
	3"	—	—	5ZEC6	—	5MME4
	4"	—	—	5ZEC7	—	6CPY6
	5"	—	—	5ZEC8	—	6CPY7
3"	1"	—	—	6CPX0	—	6DAA5
	2"	—	—	6CPX1	—	6DAA6
	3"	—	—	6CPX2	—	6DAA7
	4"	—	—	6CPX3	—	6DAA8
	5"	—	—	6CPX4	—	6DAA9

Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Foot Bracket	7/16", 9/16" Bore	5VKW6
	3/4", 7/8", 1 1/16" Bore	5VKV8
	3/4" Bore	5VKW5
	1 1/4", 1 1/2" Bore	5VKW1
	2" Bore	5VKV5
Pivot Bracket	7/16" Bore	5VKW7
	7/16", 9/16"	5VKW9
	3/4", 7/8", 1 1/16" Bore	5VKV9
	1 1/2" Bore	5VKW3
	2", 2 1/2"	5VKV6
Rod Clevis	7/16", 9/16" Bore	5VKW8
	3/4", 7/8" Bore	5VKW0
	1 1/16" Bore	5VKW2
	1 1/4", 1 1/2" Bore	5VKW4
	1 3/4", 2", 2 1/2" Bore	5VKV7

SPECIFICATION TABLES
Please match the tables below with the corresponding columns in the primary table to the right



Single-Acting Nose Mount

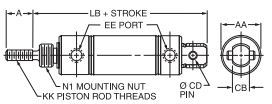


Dimension (in.)

Bore	A	AA	EE	KK	N1	LB	(X) Additional Length when Single Acting
Single-Acting Nose Mount							
5/16"	0.38	0.36	10-32	#5-40 UNC	1/4-28	1.12	0.75" per 1/2" Stroke
7/16"	0.5	0.5	10-32	#10-32 UNF	3/8-24	1.31	0.94" per 1/2" Stroke
9/16"	0.5	0.62	10-32	#10-32 UNF	7/16-20	1.53	1.62" per 1" Stroke
3/4"	0.5	0.81	1/8 NPTF	1/4-28 UNF	1/2-20	1.5	1.69" per 1" Stroke
7/8"	0.5	0.93	1/8 NPTF	1/4-28 UNF	5/8-18	1.84	1.56" per 1" Stroke
1 1/16"	0.5	1.12	1/8 NPTF	5/16-24 UNF	5/8-18	2.06	1.56" per 1" Stroke
1 1/4"	0.75	1.34	1/8 NPTF	7/16-20 UNF	3/4-16	2.66	1.81" per 1" Stroke
1 1/2"	0.75	1.56	1/8 NPTF	7/16-20 UNF	3/4-16	2.44	1.69" per 1" Stroke
1 3/4"	0.88	1.84	1/4 NPTF	1/2-20 UNF	1-14	2.97	2.0" per 1" Stroke
2"	0.88	2.08	1/4 NPTF	1/2-20 UNF	1 1/4-12	—	5.41" For 1" Stroke 7.41" For 2" Stroke 8.66" For 3" Stroke



Double-Acting Pivot Mount

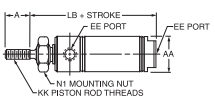


Dimension (in.)

Bore	A	EE	KK	LB	N1	AA	CB	CD
Double-Acting Pivot Mount								
7/16"	0.5	10-32	#10-32 UNF	2.81	7/16-20	0.74	0.31	0.157
9/16"	0.5	10-32	10-32 UNF	2.75	7/16-20	0.62	0.31	0.157
3/4"	0.5	1/8 NPTF	1/4-28 UNF	4.03	5/8-18	0.86	0.38	0.251
1-1/16"	0.5	1/8 NPTF	5/16-24 UNF	4.12	5/8-18	1.12	0.38	0.251
1-1/4"	0.75	1/8 NPTF	7/16-20 UNF	5.12	3/4-16	1.34	0.5	0.251
1-1/2"	0.75	1/8 NPTF	7/16-20 UNF	4.75	3/4-16	1.56	0.62	0.376
2"	0.88	1/4 NPTF	1/2-20 UNF	6.06	1-1/4-12	2.08	0.75	0.376



Double-Acting Nose Mount

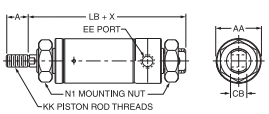


Dimension (in.)

Bore	A	AA	EE	KK	LB	N1
Double-Acting Nose Mount						
5/16"	0.38	0.5	10-32	#5-40 UNC	1.64	3/8-24
7/16"	0.5	0.74	10-32	#10-32 UNF	2.12	7/16-20
9/16"	0.5	0.62	10-32	#10-32 UNF	2.28	7/16-20
3/4"	0.5	0.86	1/8 NPTF	1/4-28 UNF	2.97	5/8-18
7/8"	0.5	0.93	1/8 NPTF	1/4-28 UNF	2.94	5/8-18
1-1/16"	0.5	1.12	1/8 NPTF	5/16-24 UNF	3.25	5/8-18
1-1/4"	0.75	1.34	1/8 NPTF	7/16-20 UNF	4	3/4-16
1-1/2"	0.75	1.56	1/8 NPTF	7/16-20 UNF	3.69	3/4-16
1-3/4"	0.88	1.84	1/4 NPTF	1/2-20 UNF	4.69	1-14
2"	0.88	2.08	1/4 NPTF	1/2-20 UNF	4.69	1-1/4-12
2-1/2"	0.88	2.62	1/4 NPTF	1/2-20 UNF	4.69	1-3/8-12
3"	1.25	3.16	3/8 NPTF	5/8-18 UNF	5.25	1-1/2-12



Single-Acting Pivot Mount

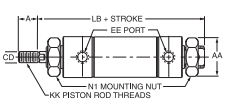


Dimension (in.)

Bore	A	AA	CB	EE	KK	N1	LB	(X) Additional Length when Single Acting
Single-Acting Pivot Mount								
5/16"	0.38	0.39	0.25	10-32	#5-40 UNC	3/8-24	1.68	0.75" per 1" Stroke
7/16"	0.5	0.74	0.31	10-32	#10-32 UNF	3/8-24	2	0.94" per 1" Stroke
9/16"	0.5	0.62	0.31	10-32	#10-32 UNF	7/16-20	2	1.62" per 1" Stroke
3/4"	0.5	0.86	0.38	1/8 NPTF	1/4-28 UNF	1/2-20	2.56	1.69" per 1" Stroke
7/8"	0.5	0.93	0.38	1/8 NPTF	1/4-28 UNF	5/8-18	2.75	1.56" per 1" Stroke
1-1/16"	0.5	1.12	0.38	1/8 NPTF	5/16-24 UNF	5/8-18	2.94	1.56" per 1" Stroke
1-1/4"	0.75	1.34	0.5	1/8 NPTF	7/16-20 UNF	3/4-16	3.78	1.81" per 1" Stroke
1-1/2"	0.75	1.56	0.62	1/8 NPTF	7/16-20 UNF	3/4-16	3.5	1.81" per 1" Stroke
1-3/4"	0.88	1.84	0.62	1/4 NPTF	1/2-20 UNF	1-14	4.53	2.00" per 1" Stroke



Double-Acting Double End Mount



Dimension (in.)

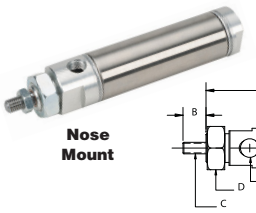
Bore	A	AA	EE	KK	LB	N1
Double-Acting Double End						
5/16"	0.38	0.5	10-32	#5-40 UNC	2.19	3/8-24
7/16"	0.5	0.74	10-32	#10-32 UNF	2.81	7/16-20
9/16"	0.5	0.62	10-32	#10-32 UNF	2.75	7/16-20
3/4"	0.5	0.86	1/8 NPTF	1/4-28 UNF	4.03	5/8-18
7/8"	0.5	0.93	1/8 NPTF	1/4-28 UNF	3.84	5/8-18
1-1/16"	0.5	1.12	1/8 NPTF	5/16-24 UNF	4.12	5/8-18
1-1/4"	0.75	1.34	1/8 NPTF	7/16-20 UNF	5.12	3/4-16
1-1/2"	0.75	1.56	1/8 NPTF	7/16-20 UNF	4.75	3/4-16
1-3/4"	0.88	1.84	1/4 NPTF	1/2-20 UNF	6.25	1-14
2"	0.88	2.08	1/4 NPTF	1/2-20 UNF	6.06	1-1/4-12
2-1/2"	0.88	2.62	1/4 NPTF	1/2-20 UNF	6.06	1-3/8-12
3"	1.25	3.16	3/8 NPTF	5/8-18 UNF	7.12	1-1/2-12

SPEEDAIRE

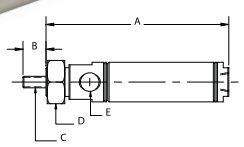
Double-Acting Stainless Steel Body Air Cylinders

- Operating pressure range: 8 to 250 psi
- Operating temp. range: 40° to 140°F
- Include magnetic piston for use with autoswitches

Permanently lubricated, nonrepairable cylinders are dimensionally interchangeable with a variety of manufacturers' cylinders. Stainless steel tube and chrome-plated carbon steel piston rod improve corrosion resistance. Piston magnet allows autoswitches to sense stroke piston. NPT ports. Additional sizes, switches, and brackets available on Grainger.com®.

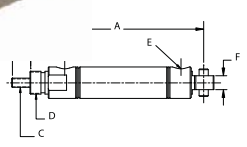


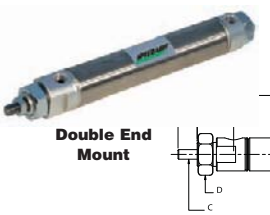
Nose Mount



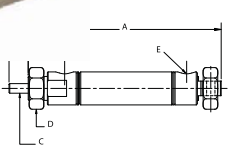


Rear Pivot Mount





Double End Mount



Bore Dia.	Dimension (in.) A (+ Stroke)	B	C	D	E
Double-Acting Nose Mount					
7/16	2.36"	0.5	10-32	7/16-20	10-32
9/16	2.19"	0.5	10-32	7/16-20	10-32
3/4	2.97"	0.5	1/4-28	5/8-18	1/8 NPT
7/8	2.69"	0.5	1/4-28	5/8-18	1/8 NPT
1 1/16	3.25"	0.5	5/16-24	5/8-18	1/8 NPT
1 1/4	3.75"	0.75	7/16-20	3/4-16	1/8 NPT
1 1/2	3.69"	0.75	7/16-20	3/4-16	1/8 NPT
2	4.69"	0.88	1/2-20	1 1/4-12	1/4 NPT

Bore Dia.	Dimension (in.) A (+ Stroke)	B	C	D	E	F
Double-Acting Rear Pivot Mount						
7/16	2.81"	0.5	10-32	7/16-20	10-32	0.31
9/16	2.56"	0.5	10-32	7/16-20	10-32	0.31
3/4	3.75"	0.5	1/4-28	5/8-18	1/8" NPT	0.38
7/8	3.31"	0.5	1/4-28	5/8-18	1/8" NPT	0.38
1-1/16	3.84"	0.5	5/16-24	5/8-18	1/8" NPT	0.38
1-1/4	4.47"	0.75	7/16-20	3/4-16	1/8" NPT	0.5
1-1/2	4.38"	0.75	7/16-20	3/4-16	1/8" NPT	0.62

Bore Dia.	Dimension (in.) A (+ Stroke)	B	C	D	E
Double-Acting Double End Mount					
7/16	3.06"	0.5	10-32	7/16-20	10-32
9/16	2.75"	0.5	10-32	7/16-20	10-32
3/4	4.03"	0.5	1/4-28	5/8-18	1/8 NPT
7/8	3.59"	0.5	1/4-28	5/8-18	1/8"NPT
1-1/16	4.12"	0.5	5/16-24	5/8-18	1/8 NPT
1-1/4	4.87"	0.75	7/16-20	3/4-16	1/8 NPT
1-1/2	4.5"	0.75	7/16-20	3/4-16	1/8 NPT
2	6.06"	0.88	1/2-20	1-1/4-12	1/4 NPT

Bore Dia.	Stroke	DOUBLE-ACTING NOSE Item No.	DOUBLE-ACTING REAR PIVOT Item No.	DOUBLE-ACTING DOUBLE END Item No.
Cylinders				
1 1/16"	1/2"	5TGA2	5TGP6	5THD5
	1"	5TGA3	5TGP7	5THD6
	2"	5TGA4	5TGP8	5THD7
	3"	5TGA5	5TGP9	5THD8
	4"	5TGA6	5TGR0	5THD9
	5"	5TGA7	5TGR1	5THE0
	6"	5TGA8	5TGR2	5THE1
	7"	5TGA9	5TGR3	5THE2
	8"	5TGC0	5TGR4	5THE3
	9"	5TGC1	5TGR5	5THE4
	10"	5TGC2	5TGR6	5THE5
	12"	5TGC3	5TGR7	5THE6
Cylinders (Cont.)				
1 1/4"	1/2"	5TGC4	5TGR8	5THE7
	1"	5TGC5	5TGR9	5THE8
	2"	5TGC6	5TGT0	5THE9
	3"	5TGC7	5TGT1	5THF0
	4"	5TGC8	5TGT2	5THF1
	5"	5TGC9	5TGT3	5THF2
	6"	5TGD0	5TGT4	5THF3
	7"	5TGD1	5TGT5	5THF4
	8"	5TGD2	5TGT6	5THF5
	9"	5TGD3	5TGT7	5THF6
	10"	5TGD4	5TGT8	5THF7
	12"	5TGD5	5TGT9	5THF8
Cylinders (Cont.)				
1 1/2"	1/2"	5TGD6	5TGU0	5THF9
	1"	5TGD7	5TGU1	5THG0
	2"	5TGD8	5TGU2	5THG1
	3"	5TGD9	5TGU3	5THG2
	4"	5TGE0	5TGU4	5THG3
	5"	5TGE1	5TGU5	5THG4
	6"	5TGE2	5TGU6	5THG5
	7"	5TGE3	5TGU7	5THG6
	8"	5TGE4	5TGU8	5THG7
	9"	5TGE5	5TGU9	5THG8
	10"	5TGE6	5TGV0	5THG9
	12"	5TGE7	5TGV1	5THH0

Bore Dia.	Stroke	DOUBLE-ACTING DOUBLE END Item No.	DOUBLE-ACTING NOSE Item No.
Cylinders			
2"	1/2"	5THH1	5TGE8
	1"	5THH2	5TGE9
	2"	5THH3	5TGF0
	3"	5THH4	5TGF1
	4"	5THH5	5TGF2
	5"	5THH6	5TGF3
	6"	5THH7	5TGF4
	7"	5THH8	5TGF5
	8"	5THH9	5TGF6
	9"	5THJ0	5TGF7
	10"	5THJ1	5TGF8
	12"	5THJ2	5TGF9

SPEEDAIRE

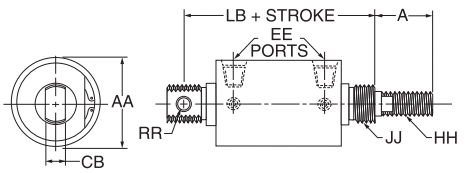
Repairable Round-Body Aluminum Air Cylinders

- Double-acting
- Max. operating pressure: 150 psi (10 bar)
- Operating temp. range: -10° to 165°F

Corrosion- and abrasion-resistant hard anodized aluminum cylinders have a high-strength steel retaining ring that is easily removed for maintenance and repair. Chrome-plated steel rod. Head and caps are sealed with an O-ring static tube seal to prevent leaks. All cylinders come "switch ready".



No. D8463



Bore Dia.	Dimensions (in.) A	LB	EE	RR	JJ	HH	AA	CB
1 1/8"	1/8	4 3/8	1/8	1/4	3/4-16	3/8-16	1 3/8	3/8
1 1/2"	1 1/4	5 3/8	1/4	5/16	1-14	1/2-13	1 3/4	1/2
2"	1 1/4	5 3/8	1/4	5/16	1-14	5/8-11	2 1/4	1/2
2 1/2"	1 1/2	6 3/8	3/8	7/16	1 3/8 -12	3/4-10	2 3/4	5/8
3"	1 1/2	6 3/8	3/8	7/16	1 3/8 -12	3/4-10	3 1/4	5/8
4"	1 7/8	8 1/16	1/2	1/2	1 3/4 -12	1-14	4 3/8	3/4

Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Clevis Bracket	1 1/8" Bore	5VNY2
	1 1/2, 2" Bore	5VNY3
	2 1/2, 3" Bore	5VNY4
	4" Bore	5VNY5
Cylinder Mounting Nut	1 1/8" Bore	5VNW9
	1 1/2, 2" Bore	5VNX0
	2 1/2, 3" Bore	5VNX1
	4" Bore	5VNX2
Flange Bracket	1 1/8" Bore	5VNX7
	1 1/2, 2" Bore	5VNX8
	2 1/2, 3" Bore	5VNX9
	4" Bore	5VNY0
Foot Bracket	1 1/8" Bore	5VNX3
	1 1/2, 2" Bore	5VNX4
	2 1/2, 3" Bore	5VNX5
	4" Bore	5VNX6
Rod Clevis	1 1/8" Bore	5VNY1
	1 1/2" Bore	5VNW5
	2" Bore	5VNW6
	2 1/2 and 3" Bore	5VNW7
	4" Bore	5VNW8

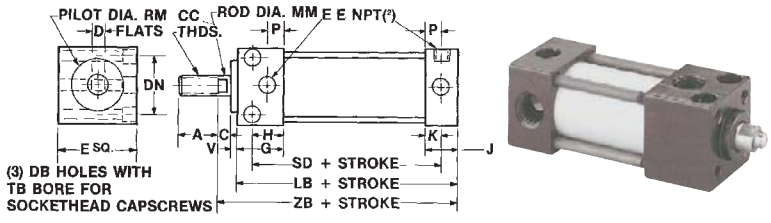
Bore Dia.	Rod Thread Size	▶CHOOSE: Stroke	WITHOUT CUSHION Item No.	WITH HEAD AND CAP CUSHION Item No.
Cylinders				
1 1/8"	3/8"-16	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8463	—
	3/8"-16	3", 3.5", 4"	—	D8496
	3/8"-16	5", 6", 7", 8"	D8464	D8497
	3/8"-16	9", 10", 11", 12"	D8465	D8498
	3/8"-16	13", 14", 15", 16", 17", 18"	D8466	D8499
	3/8"-16	19", 20", 21", 22", 23", 24"	D8467	D8501
1 1/2"	1/2"-13	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8468	—
	1/2"-13	3", 3.5", 4"	—	D8502
	1/2"-13	5", 6", 7", 8"	D8469	D8503
	1/2"-13	9", 10", 11", 12"	D8471	D8504
	1/2"-13	13", 14", 15", 16", 17", 18"	D8472	D8505
	1/2"-13	19", 20", 21", 22", 23", 24"	D8473	D8506
2"	5/8"-11	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8474	—
	5/8"-11	3", 3.5", 4"	—	D8507
	5/8"-11	5", 6", 7", 8"	D8475	D8508
	5/8"-11	9", 10", 11", 12"	D8476	D8509
	5/8"-11	13", 14", 15", 16", 17", 18"	D8477	D8511
	5/8"-11	19", 20", 21", 22", 23", 24"	D8478	D8512
2 1/2"	3/4"-10	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8479	—
	3/4"-10	3", 3.5", 4"	—	D8513
	3/4"-10	5", 6", 7", 8"	D8481	D8514
	3/4"-10	9", 10", 11", 12"	D8482	D8515
	3/4"-10	13", 14", 15", 16", 17", 18"	D8483	D8516
	3/4"-10	19", 20", 21", 22", 23", 24"	D8484	D8517
3"	3/4"-10	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8485	—
	3/4"-10	3", 3.5", 4"	—	D8518
	3/4"-10	5", 6", 7", 8"	D8486	D8519
	3/4"-10	9", 10", 11", 12"	D8487	D8521
	3/4"-10	13", 14", 15", 16", 17", 18"	D8488	D8522
	3/4"-10	19", 20", 21", 22", 23", 24"	D8489	D8523
4"	1"-14	1", 1.5", 2", 2.5", 3", 3.5", 4"	D8491	—
	1"-14	3", 3.5", 4"	—	D8524
	1"-14	5", 6", 7", 8"	D8492	D8525
	1"-14	9", 10", 11", 12"	D8493	D8526
	1"-14	13", 14", 15", 16", 17", 18"	D8494	D8527
	1"-14	19", 20", 21", 22", 23", 24"	D8495	D8528

SPEEDAIRE®

NFPA Square-Head Tie Rod Aluminum Cylinders

- Max. operating pressure: 150 psi (¾" and 1⅛" bores), 250 psi (1½" to 6" bores)
- Temp. range: -20° to 200°F
- Include magnetic piston (except ¾" and 1⅛" bore dia. have non-magnetic piston)

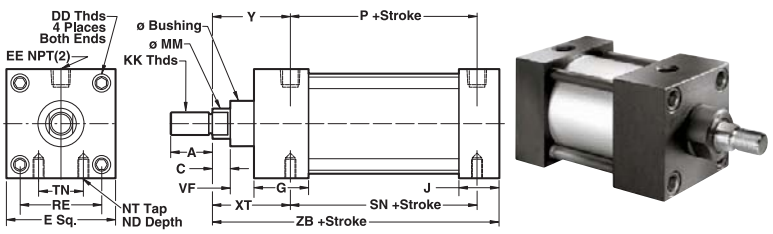
Switch-ready magnetic piston cylinders have a replaceable rod gland and fully adjustable cushion to allow a full range of NFPA MS4 interchangeable mounting configurations. 4 internal-threaded sleeve nuts recessed in the head and 4 tapped holes in the cap permit direct mounting. ¾" and 1⅛" bores are noncushioned and nonmagnetic. Additional NFPA cylinders available on Grainger.com®.



¾ to 1⅛" Bore Dia.

Dimension (in.)

Bore Dia.	A	C	D	E	G	H	J	K	P	CC	DB	DN	EE	LB	MM	RM	SD	ZB
¾ to 1⅛" Bore Diameter																		
¾	⅝	¼	¼	1	⅞	1 1/16	⅝	⅜	5/16	¼ - 28	1 1/64	⅝	⅛	2 ¼	5/16	0.562	1 13/16	2 ⅝
1⅛	⅝	¼	5/16	1 ½	⅞	⅝	⅝	⅜	5/16	⅜ - 24	1 3/64	1	⅛	2 ¼	⅜	0.75	1 ¾	2 ⅝



1½ to 6" Bore Dia.

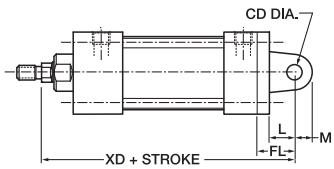
Dimension (in.)

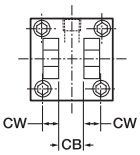
Bore Dia.	A	C	E	J	G	P	DD	EE	KK	MM	NT	RE	SN	TN	VF	XT	ZB
1½ to 6" Bore Diameter																	
1½	0.75	0.375	2	1	1.5	2.34	¼ - 28	¼ NPT	½ - 20	0.625	¼ - 20	1.428	2.25	0.625	0.625	1.938	4.625
2	0.75	0.375	2.5	1	1.5	2.34	5/16 - 24	¼ NPT	½ - 20	0.625	5/16 - 18	1.838	2.25	0.875	0.625	1.938	4.625
2½	0.75	0.375	3	1	1.5	2.47	5/16 - 24	¼ NPT	½ - 20	0.625	⅜ - 16	2.192	2.375	1.25	0.625	1.938	4.75
3¼	1.125	0.5	3.75	1.25	1.75	2.69	1/16 - 20	⅜ NPT	¾ - 16	1	½ - 13	2.937	2.625	1.5	0.875	2.438	5.625
4	1.125	0.5	4.5	1.25	1.75	2.69	1/16 - 20	⅜ NPT	¾ - 16	1	½ - 13	3.562	2.625	2.063	0.875	2.438	5.625
6	1.625	0.625	6.5	1.5	2	3.125	½ - 20	½ NPT	1 - 14	1.375	¾ - 10	4.879	3.125	3.25	1	2.813	6.625

Bore Dia.	▶CHOOSE: Stroke	Item No.
Non-Cushioned, Non-Magnetic Piston		
¾"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8111
	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8112
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8113
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8114
	20", 20½", 21", 21½"	D8115
1⅛"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8116
	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8117
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8118
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8119
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8121
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8122
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8123
Non-Cushioned, Magnetic Piston		
1½"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8124
2"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8132
2½"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8139
3¼"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8147
4"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8155
6"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8162
Adjustable Cushion, Magnetic Piston		
1½"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8125
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8126
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8127
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8128
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8129
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8131
2"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8133
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8134
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8135
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8136
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8137
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8138
2½"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8141
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8142
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8143
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8144
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8145
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8146
3¼"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8148
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8149
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8151
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8152
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8153
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8154
4"	6", 6½", 7", 7½", 8½", 9", 9½"	D8156
	10½", 11", 11½", 12½", 13", 13½", 14", 14½"	G8249
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8157
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8158
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8159
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8161
6"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8163
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8164
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8165
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8166
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8167
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8168



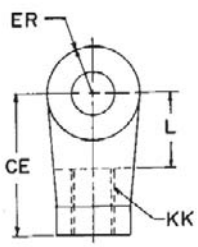
Rear Cast-Iron Clevis Mounting Kit

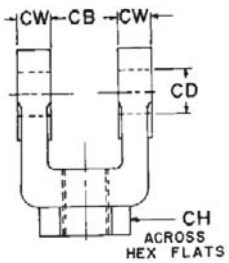






Cast-Iron Rod Clevis







Self-Aligning Coupler

SPEEDAIRE®

Mounting Hardware for NFPA Square-Head Tie-Rod Aluminum Cylinders

Bore Dia. (in.)	Dimensions (in.) CB	CD	CW	FL	L	M	Item No.
Cast-Iron Clevis Mounting Kits							
1½	¾	½	½	1⅛	¾	⅝	6X471
2	¾	½	½	1⅛	¾	⅝	6X473
2½	¾	½	½	1⅛	¾	⅝	6X475
3¼	1¼	¾	⅝	1⅛	1¼	⅞	6X479
4	1¼	¾	⅝	1⅛	1¼	⅞	6X481
6	1½	1	¾	2¼	1½	1⅛	1A017

Bore Dia. (in.)	Dimensions (in.) CB	CD	CE	CH	CW	ER	KK	L	Item No.
Cast-Iron Rod Clevis									
1½ - 2½	¾	½	1½	1	½	½	½-20	¾	6X476
3¼ - 4	1¼	¾	2⅜	1¼	⅝	¾	¾-16	1¼	6X482
6	1½	1	3⅛	1½	¾	1	1-14	1½	1A018

Thread Size (in.)	Overall Length (in.)	Overall Dia. (in.)	Max. Operating Force (lb.)	Item No.
Self-Aligning Couplers				
½-20	2¾	1¼	14,000	1A313
¾-16	3 7/16	1¾	34,000	1A314
1-14	4 9/16	2½	37,000	1A315

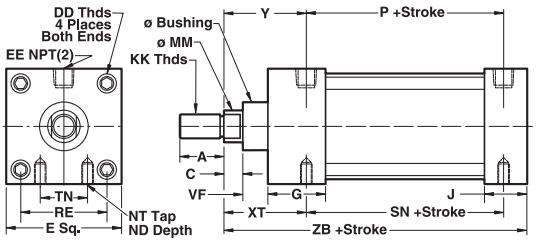
SPEEDAIRE

NFPA Square-Head Tie Rod Steel Cylinders

- Max. operating pressure: 250 psi
- Temp. range: -20° to 200°F

These cylinders offer full range of NFPA interchangeable mounting configurations. Cushioned cylinders have a fully adjustable cushion.





Dimension (in.)

Bore Dia.	A	C	E	G	J	P	Y	DD	EE	KK	MM	NT	RE	SN	TN	VF	XT	ZB
1½	0.750	0.375	2.000	1.500	1.000	2.340	1.875	¼-28	¼ NPT	½-20	0.625	¼-20	1.428	2.250	0.625	0.625	1.938	4.625
2	0.750	0.375	2.500	1.500	1.000	2.340	1.875	5⁄16-24	¼ NPT	½-20	0.625	5⁄16-18	1.838	2.250	0.875	0.625	1.938	4.625
2½	0.750	0.375	3.000	1.500	1.000	2.470	1.875	5⁄16-24	¼ NPT	½-20	0.625	⅜-16	2.192	2.375	1.250	0.625	1.938	4.750
3¼	1.125	0.500	3.750	1.750	1.250	2.690	2.438	7⁄16-20	⅜ NPT	¾-16	1.000	½-13	2.937*	2.625	1.500	0.875	2.438	5.625
4	1.125	0.500	4.500	1.750	1.250	2.690	2.438	7⁄16-20	⅜ NPT	¾-16	1.000	½-13	3.562*	2.625	2.063	0.875	2.438	5.625
6	1.625	0.625	6.500	2.000	1.500	3.125	2.813	½-20	½ NPT	1-14	1.375	¾-10	4.879	3.125	3.250	1.000	2.813	6.625

Bore Dia.	▶CHOOSE: Stroke	Item No.
Non-Cushioned		
1½"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8169
2"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8177
2½"	½", 1", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8185
3¼"	½", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8193
4"	½", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	D8201
Adjustable Cushion		
1½"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8171
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8172
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8173
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8174
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8175
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8176
2"	6½", 7", 7½", 8", 8½", 9", 9½", 10"	D8178
	10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8179
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8181
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8182
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8183
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8184
2½"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8186
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8187
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8188
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8189
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8191
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8192

Bore Dia.	▶CHOOSE: Stroke	Item No.
3¼"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8194
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8195
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8196
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8197
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8198
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8199
4"	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8202
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8203
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8204
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8205
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8206
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8207
6"	½", 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½"	D8208
	6", 6½", 7", 7½", 8", 8½", 9", 9½"	D8209
	10", 10½", 11", 11½", 12", 12½", 13", 13½", 14", 14½"	D8211
	15", 15½", 16", 16½", 17", 17½", 18", 18½", 19", 19½"	D8212
	20", 20½", 21", 21½", 22", 22½", 23", 23½", 24", 24½", 25", 25½"	D8213
	26", 26½", 27", 27½", 28", 28½", 29", 29½", 30", 30½"	D8214
	31", 31½", 32", 32½", 33", 33½", 34", 34½", 35", 35½", 36"	D8215

**** Does not meet NFPA mounting dimensions.***

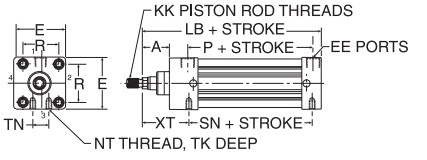
SPEEDAIRE

NFPA Extruded Aluminum Air Cylinders

- Max. operating pressure: 250 psi
- Operating temp. range: -10° to 165°F
- Switch ready
- Cushions: standard and adjustable at both ends on 7" and larger stroke lengths

Feature industry-standard footprint, which allows interchangeability with other NFPA-style cylinders of either tie-rod or extruded construction. Advantages include clean appearance and fewer spaces for dirt and debris to collect.





Dimension (in.)

Bore Dia.	A	E	P	R	EE	KK	LB	NT	TK	TN	SN	XT
1½"	1.000	2.000	2.313	1.430	⅜	½-20	4.625	¼-20	0.375	0.625	2.250	1.938
2"	1.000	2.500	2.313	1.840	⅜	½-20	4.625	5⁄16-18	0.438	0.875	2.250	1.938
2½"	1.000	3.000	2.375	2.190	⅜	½-20	4.750	⅜-16	0.625	1.250	2.375	1.938
3¼"	1.375	3.750	2.625	2.760	½	¾-16	5.625	½-13	0.750	1.500	2.625	2.438
4"	1.375	4.500	2.625	3.320	½	¾-16	5.625	½-13	0.750	2.063	2.625	2.438
5"	1.375	5.500	2.875	4.100	½	¾-16	5.875	⅝-11	0.938	2.688	2.875	2.438

Bore Dia.	▶CHOOSE: Stroke	Item No.
Cylinders		
1½"	1", 1½", 2", 2½", 3", 3½", 4", 4½"	D8529
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8531
	9", 9½", 10", 10½", 11", 11½", 12", 13½"	D8532
2"	1", 1½", 2", 2½", 3", 3½", 4", 4½"	D8533
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8534
	9", 9½", 10", 10½", 11", 11½", 12", 12½"	D8535
2½"	1", 1½", 2", 2½", 3", 3½", 4", 4½"	D8536
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8537
	9", 9½", 10", 10½", 11", 11½", 12", 12½"	D8538
3¼"	2", 2½", 3", 3½", 4", 4½"	D8539
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8541
	9", 9½", 10", 10½", 11", 11½", 12", 12½"	D8542
	13", 13½", 14", 14½", 15", 15½", 16", 16½", 17", 17½", 18", 18½"	D8543
	19", 19½", 20", 22", 24"	D8544
	30", 36"	D8545
4"	2", 2½", 3", 3½", 4", 4½"	D8546
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8547
	9", 9½", 10", 10½", 11", 11½", 12", 12½"	D8548
	13", 13½", 14", 14½", 15", 15½", 16", 16½", 17", 17½", 18", 18½"	D8549
	19", 19½", 20", 20½", 21", 21½", 22", 22½", 23", 23½", 24"	D8551
	30", 36"	D8552

Bore Dia.	▶CHOOSE: Stroke	Item No.
5"	2", 2½", 3", 3½", 4", 4½"	D8553
	5", 5½", 6", 6½", 7", 7½", 8", 8½"	D8554
	9", 9½", 10½", 11", 11½", 12", 12½"	D8555
	13", 13½", 14", 14½", 15", 15½", 16", 16½", 17", 17½", 18", 18½"	D8556
	19", 19½", 20", 20½", 21", 21½"	D8557
	22", 22½", 23", 23½", 24"	D8558
	30", 36"	D8559

Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Rear Detachable Clevis	1½"	36NK59
	2"	36NK60
	2½"	36NK61
	3¼"	36NK62
	4"	36NK63
	5"	36NK64
Rectangular Flange Bracket	1½"	5VLX8
	2"	5VLX9
	2½"	5VLY0
	3¼"	5VLY6
	4"	5VLY7

Mount Type	Fits	Item No.
Rod Clevis	1½", 2", 2½"	36NK65
	3¼", 4", 5"	5VLX7
Wall Mount Clevis Bracket	1½", 2", 2½"	5VLY1
	3¼", 4"	5VLY3
Wall Mount Eye Bracket	1½", 2", 2½"	5VLY2
	3¼", 4" Bore	5VLY5

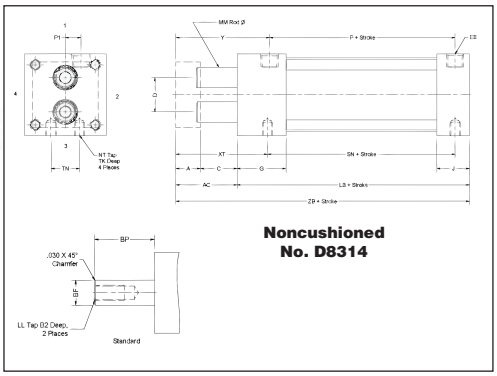
SPEEDAIRE

NFPA Square-Head Twin-Rod Air Cylinders

- Bottom-tapped (MS4) mounting holes, standard
- Max. operating pressure: 250 psi, except 1⅛" bore are 150 psi
- Temp. range: -20° to 200°F

Permanently lubricated, heavy-duty, double-acting air cylinders for applications requiring guided movement when it is critical that the piston rod not rotate. 2 piston rods prevent rods from twisting and turning off the axis, for reliable, repeatable linear motion with no need for external guides. Cylinder bearing wear is also minimized by the nonrotating twin-rod design. High-tensile strength aluminum cylinders have chrome-plated polished steel piston rods, high-strength steel tie rods, cast-iron rod bearings, and U-cup piston cylinders.





Noncushioned
No. D8314

Dimensions (in.)

Bore	A	AC	B2	BF	BP	C	D	EE	G	J	LB	LL	MM	NT	P	P1	SN	TK	TN	XT	Y	ZB
1⅛	0.625	1.5	0.5	0.313	1.063	0.875	0.627	⅛	0.875	0.625	2.25	¼-28	0.312	10-32	1.469	0.241	1.5	0.25	0.5	2	2.031	3.75
1½	0.625	1.875	0.625	0.375	1.375	1.25	0.75	¼	1.5	1	3.625	5/16-24	0.375	¼-20	2.125	0.303	2.25	0.375	0.625	2.812	2.875	5.5
2	0.75	1.875	0.625	0.625	1.25	1.125	1.052	¼	1.5	1	3.625	5/16-24	0.625	5/16-18	2.125	0.48	2.25	0.375	0.875	2.812	2.875	5.5
2½	0.75	2.125	0.75	0.625	1.5	1.375	1.398	¼	1.5	1	3.75	⅜-24	0.625	⅜-16	2.25	0.635	2.375	0.625	1.25	3.063	3.125	5.875
3¼	1.25	2.375	1	1	1.25	1.125	2	⅜	1.75	1.25	4.25	½-20	1	1/2/13	2.625	0.845	2.625	0.625	1.5	3.437	3.437	6.625

Bore Dia.	▶CHOOSE: Stroke	Non-Rotating, Switch Ready Item No.	Non-Rotating, Not Switch Ready Item No.
Noncushioned			
1⅛"	1", 2", 3", 4", 5"	D8346	D8314
	6", 7", 8", 9", 10"	D8349	D8317
Adjustable Cushion			
1½"	2", 3", 4", 5"	D8351	—
	2", 3", 4"	—	D8318
	6", 7", 8", 9", 10"	D8352	D8319
2"	2", 3", 4", 5"	D8355	D8323
	6", 7", 8", 9", 10"	—	D8324
	11", 12", 13", 14"	D8357	—
2½"	2", 3", 4", 5"	D8361	D8328
	6", 7", 8", 9", 10"	D8362	D8329
	11", 12", 13", 14", 15"	D8363	D8331
	16", 17", 18", 19", 20"	D8366	—
3¼"	2", 3", 4", 5"	D8367	D8335
	4", 6", 7", 8", 9"	D8371	D8338
	11", 12", 13", 14", 15"	D8372	D8339
	16", 17", 18", 19", 20"	D8373	D8341
	21", 22", 23", 24"	D8376	D8344
	25", 26", 27", 28", 29", 30"	D8377	D8345

Item	Bore Dia. (in.)	Item No.
Mounting Brackets		
Rear Flange Mounting Kit	1⅛	1A443
	1½	6X470
	2	6ZC61
	2½	6ZC62
	3¼	5YCH9
Side Lug Mounting Kit	1⅛	6ZC60
	1½	1A254
	2	1A255
	2½	1A256
	3¼	1A257

For Use With	Item No.
Repair Kits	
5VEA7 to 5VEA9, 5VEC0 to 5VEC3, 5YAY9 to 5YAZ8	5YCJ0
5VEC4 to 5VEC7, 5YAZ9 to 5YCA7	5YCJ1
5VEC8 to 5VED6, 5YCA8 to 5YCA9, 5YCC0 to 5YCD0	5YCJ2
5VED7 to 5VEF1, 5YCD1 to 5YCE9	5YCJ3
5VEF2 to 5VEJ0, 5YCG0 to 5YCH8	5YCJ4

Hold-Down Pneumatic Clamps

DESTACO

For use in welding, woodworking (cutting and gluing), drilling, tapping, reaming, and assembly applications. Can be used on automated systems. Toggle-action clamps remain in locked position if air pressure is accidentally lost or hoses are disconnected. Most models are sensor-ready with provisions for mounting sensors (usually grooves) included. Enclosed clamps are designed for dirty environments where contamination can be a problem. For mechanical hold-down clamps, see pages 2319 and 2320.

Holding Cap. (in. lbs.)	Arm	Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Mini Power Clamps				
177	90°	15 x 9mm	81L12-14100	3CXG3
221	120°	15 x 9mm	81L12-10100	3CXG2
354	90°	20 x 12mm	81L16-14100	3CXG5
531	120°	20 x 12mm	81L16-10100	3CXG4
708	90°	20 x 15mm	81L20-14100	3CXG7
708	90°	20 x 15mm	81L25-14100	3CXG9
885	120°	20 x 15mm	81L20-10100	3CXG6
885	120°	20 x 15mm	81L25-10100	3CXG8

Holding Cap. (in. lbs.)	Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Power Clamps			
660	25 x 18mm	82L2G-2030000	3CXH1
660	25 x 18mm	82L2G-203B800	3CXH2 *
1596	20 x 20mm	82L3G-2030000	3CXH3
1596	20 x 20mm	82L3G-203B800	3CXH4 *
3360	25 x 20mm	82L4G-2030000	3CXH5
3360	25 x 20mm	82L4G-203B800	3CXH6 *

** With sensor.*

Holding Cap. (lb.)	Max. Input Air Pressure (psi)	Base Mounting Centers (in.)	Mfr. Model	Item No.
Hold-Down Clamps				
100	80	0.94 x 0.63	812-U	3CXJ1
200	80	1.06 x 0.50	802-U	3CXH7
375	80	1.25 x 0.75	807-U	3CXH8
600	80	1.78 x 1.25	810-U	3CXH9
Hold-Down, Enclosed				
390	145	1.50 x 0.79	8021	3CXJ2
450	145	1.56 x 1.97	8071	3CXJ3
Straight Line Clamps				
600	80	1.31 x 1.44	803	3CXJ5
2500	145	1.63 x 1.38	830	3CXJ7



No. 3CXG2



No. 3CXH1



No. 3CXJ1



No. 3CXJ5

SPEEDAIRE

For a Full Selection of Speedaire® Specialty Cylinders, Grippers, and Actuators, see Grainger.com®

SPEEDAIRE

ISO Solenoid Coil Connectors



No. 3FFZ7





Note: For additional ISO Valves, go to Grainger.com® and search under "ISO Valves."

Voltage	For Use With	Item No.
120VAC/24VDC	22mm Solenoid Coil	3FFY9
	30mm Solenoid Coil	3FFZ6
With LED Indicating Light		
24VDC	22mm Solenoid Coil	3FFZ1
	30mm Solenoid Coil	3FFZ7
120VAC	22mm Solenoid Coil	3FFZ2
	30mm Solenoid Coil	3FFZ8



No. 3JCP5



No. 3JCU1

numatics

L Series and PA55 Pilot and Manual Air Control Valves

- Max. operating pressure: 150 psi

Pilot—High flow 4-way valves are for use in any control circuit where air pilot signals are available. Require no electrical power to drive the valve, making them suitable for use in hazardous locations.

Manual—Lever-operated valves provide high flow; balanced spool-and-sleeve design provides easy operation, regardless of system pressure. Valves operate with lubricated or nonlubricated compressed air and are easily plumbed into the system.

Port Size (in.)	Actuator/ Return	Valve Type	Cv	No. of Positions	L (in.)	Mfr. Model	Item No.
Base Mounted Pilot							
—	Pilot/Pilot	—	5.50	2	8 1/16	554JJ4000000000	3JCC7
	Pilot/Spring	—	5.50	2	8 1/16	554JA4000000000	3JCC6
Body Ported Pilot							
1/4	Pilot/Pilot	—	1.00	2	3 5/8	L12PP452O0000000	3JCP6
	Pilot/Spring	—	1.00	2	3 5/16	L12PA452O0000000	3JCP5
3/8	Pilot/Pilot	—	1.70	2	3 7/8	L23PP452O0000000	3JCU7
	Pilot/Pilot	Open Center	1.70	3	3 7/8	L23PP552O0000000	3JCU9
	Pilot/Pilot	Closed Center	1.70	3	3 7/8	L23PP652O0000000	3JCV1
	Pilot/Spring	—	1.70	2	3 7/8	L23PA452O0000000	3JCU6
	Pilot/Spring	—	1.70	2	4 9/16	L23JA452O0000000	3JCU8

Port Size (in.)	No. of Positions	Center Position	Actuator/Return	Mfr. Model	Item No.
Manual 4-Way					
3/8 NPT	2	—	Lever/Spring	L23LA452O0000000	3JCT9
	2	—	Lever with Detent	L23LD452O0000000	3JCU1
	3	Open	Lever/Spring	L23LA552O0000000	3JCU2
	3	Closed	Lever/Spring	L23LA652O0000000	3JCU3
	3	Open	Lever with Detent	L23LD552O0000000	3JCU4
	3	Closed	Lever with Detent	L23LD652O0000000	3JCU5

numatics

L01 Series Solenoid Valves and Manifolds

- In-line body ported
- 0.2 Cv
- Max. operating pressure: 150 psi



No. 3JCL3

1/8" NPT port, except manifolds have 1/4" NPT supply and exhaust ports. Electrical connector included.

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid/Spring Actuator / Return			
4-Way, 2-Position	120VAC	L01SA4592060T30	3JCK8
	24VDC	L01SA4594060T61	3JCL3
4-Way, 2-Position, Speed Control	120VAC	L01SA4872060T30	3JCL1
	24VDC	L01SA4874060T61	3JCL5
Double Solenoid Valves, Solenoid/Solenoid Actuator / Return			
4-Way, 2-Position	120VAC	L01SS4592060T30	3JCK9
	24VDC	L01SS4594060T61	3JCL4
4-Way, 2-Position, Speed Control	120VAC	L01SS4872060T30	3JCL2
	24VDC	L01SS4874060T61	3JCL6

No. of Stations	Mfr. Model	Item No.
Manifold Assembly, Includes Valve Mounting Hardware		
2	241-148	3JDE8
4	241-150	3JDE9
6	241-151	3JDF1
8	241-152	3JDF2

Description	Mfr. Model	Item No.
Manifold Accessories		
Manifold Mounting Kit	239-582	3JDE5
Blank Station Plate Kit	239-583	3JDE7
Speed Control Kit	239-581	3JDE6

SPEEDAIRE

Manual Air Control Valves

- Max. operating pressure: 150 psi

Rugged, aluminum and cast-iron bodies. Rotary lever valves are high-flow, lubricated, and 3-position operation.



No. 32XC11

Pipe Size	Connection	Cv	CLOSED CENTER Item No.	OPEN CENTER Item No.
1/4"	NPT	2.5	32XC10	32XC13
3/8"	NPT	3.0	32XC11	32XC14
1/2"	NPT	6.2	32XC12	32XC15

numatics

L1 Series Solenoid Valves and Manifolds

- In-line body ported
- 1.0 Cv, except Nos. 29NV07 and 29NV08 are 0.5 Cv
- Max. operating pressure: 150 psi, except Nos. 29NV07 and 29NV08 are 100 psi
- 1/4" NPT port
- Electrical connector included
- Manifolds include mounting kits



No. 3JCN2

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid Air Pilot/Spring Actuator / Return			
4-Way, 2-Position	120VAC	L12BA452O060T30	3JCN2
	24VDC	L12BA452B060T61	3JCN6
	240VAC	L12BA452O060T40	3JCP1
High-Speed, Solenoid/Spring Actuator / Return			
4-Way, 2-Position with Flush Non-Locking Override	24VDC	92280-2	29NV08
4-Way, 2-Position, without Override	24VDC	92280-1	29NV07
Double Solenoid Valves, Solenoid Air Pilot/Solenoid Air Pilot Actuator / Return			
4-Way, 2-Position	120VAC	L12BB452O060T30	3JCN3
	24VDC	L12BB452B060T61	3JCN7
	240VAC	L12BB452O060T40	3JCP2
4-Way, 3-Position, Closed Center	120VAC	L12BB652O060T30	3JCN5
	24VDC	L12BB652B060T61	3JCN9
4-Way, 3-Position, Open Center	120VAC	L12BB552O060T30	3JCN4
	24VDC	L12BB552B060T61	3JCN8
	240VAC	L12BB552O060T40	3JCP3

No. of Stations	Mfr. Model	Item No.
Manifold Assembly		
2	206-1749	3JCP9
3	206-1750	3JCR1
4	206-1751	3JCR2
6	206-1753	3JCR3
8	206-1755	3JCR4
10	206-1757	3JCR5

Description	Mfr. Model	Item No.
Accessories		
Blank Station Plate Kit	239-288	3JCP8
Cable, For High-Speed Valves, 72"L	ND0306FBN0000000	29NV09
Cable, For High-Speed Valves, 180"L	ND0315FBN0000000	29NV10
Manifold Mounting Kit	239-311	3JCP7



No. 29NU80

numatics

L1 and L2 Series Hazardous Location Valves

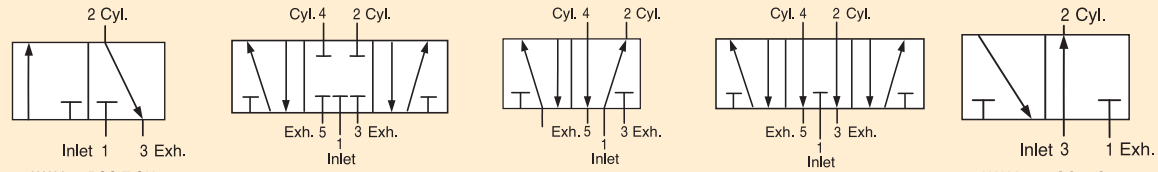
- Max. operating pressure: 150 psi

Valves are explosionproof and intrinsically safe for use in hazardous locations. Feature spool and floating sleeve design that can last millions of cycles.

Additional sizes available on Grainger.com®.

Description	Pipe Size	Cv	Voltage	Mfr. Model	Item No.
Solenoid Air Pilot/Spring					
4-Way, 2-Position	1/8"	1	120VAC	L11XA452OP00030	29NU66
	1/4"	1	120VAC	L12XA452OP00030	29NU68
	1/4"	1	24VDC	L12XA452BP00061	29NU69
	1/4"	1.7	24VDC	L22XA452BP00061	29NU71
	1/4"	1.7	120VAC	L22XA452OP00030	29NU70
	3/8"	1.7	24VDC	L23XA452BP00061	29NU73
	3/8"	1.7	120VAC	L23XA452OP00030	29NU72
4-Way, 3-Position, Closed Center Position	1/8"	1	24VDC	L12IA452BP00061	29NU79
Double Solenoid Air Pilot					
4-Way, 2-Position, Detented	1/4"	1	24VDC	L12XX452BP00061	29NU80
	3/8"	1.7	120VAC	L23XX452OP00030	29NU93

Port Configurations—Directional Control Valves





numatics

L2 Series Solenoid Valves and Manifolds

- In-line body ported
- 1.7 Cv
- Max. operating pressure: 150 psi
- ⅜" NPT port
- Electrical connector included
- Manifolds include mounting kits

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid Air Pilot/ Spring Actuator / Return			
4-Way, 2-Position	120VAC	L23BA452O060T30	3JCR6
	24VDC	L23BA452B060T61	3JCT1
	240VAC	L23BA452O060T40	3JCT5
Double Solenoid Valves, Solenoid Air Pilot/ Solenoid Air Pilot Actuator / Return			
4-Way, 2-Position	120VAC	L23BB452O060T30	3JCR7
	24VDC	L23BB452B060T61	3JCT2
	240VAC	L23BB452O060T40	3JCT6
4-Way, 3-Position, Closed Center	120VAC	L23BB652O060T30	3JCR9
	24VDC	L23BB652B060T61	3JCT4
	240VAC	L23BB652O060T40	3JCT8
4-Way, 3-Position, Open Center	120VAC	L23BB552O060T30	3JCR8
	24VDC	L23BB552B060T61	3JCT3
	240VAC	L23BB552O060T40	3JCT7

No. of Stations	Mfr. Model	Item No.
Manifold Assembly		
2	206-1760	3JCV5
3	206-1761	3JCV6
4	206-1762	3JCV7
5	206-1763	3JCV8
6	206-1764	3JCV9

Description	Mfr. Model	Item No.
Manifold Accessories		
Manifold Mounting Kit	239-312	3JCV2
Blank Station Plate Kit	239-471	3JCV3
Speed Control Kit	239-209	3JCV4



numatics

L Series and Mark 3 Series Solenoid Coil Connectors

All connectors are for use with L and Mark 3 Series coils. Plug-in connectors aid line-mounted valve and manifold assembly maintenance. Color coded to correct solenoid on double solenoid valves; black is 12 solenoid, gray is 14.

Color	Voltage	Indicating Light	Mfr. Model	Item No.
Gray	24V to 220V	No	230-363 grey 14 end	3JCL7
Black	24V to 220V	No	230-364 black 12 end	3JCL8
Clear w/ light	24VDC	Yes	230-365 24V	3JCL9
	110V	Yes	230-366 110V	3JDE3
	220V	Yes	230-367 220V	3JDE4



numatics

Mark 3 Series Solenoid Valves, Subbase/ Manifolds, and Pressure Regulators

- 0.35 Cv
- Max. operating pressure: 150 psi
- Plug-in version includes electrical connector

Subbase-mounted direct-acting solenoid valves.

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Subbase	⅛	1	103-493	3JCJ7
Manifold Block	⅛	1	229-718	3JCJ4
	10-32 UNF-B	2	229-524	3JCJ8
	10-32 UNF-B	3	229-525	3JCJ9

Description	For Use With	Mfr. Model	Item No.
Manifold Accessories			
End Plate Kit	10/32" Ported Mark 3 Series Manifold Blocks	229-526	3JCK1
	⅛" Ported Mark 3 Series Manifold Blocks	229-719	3JCJ5
Blocking Disk	Mark 3 Series Manifold Blocks	124-151	3JCJ6
Blank Station Plate Kit	Mark 3 Series Manifold Blocks	229-538	3JCK7

Adjustment Range	Mfr. Model	Item No.
Sandwich Dual Air Regulator		
3 to 30 psi	031RD3000000000	3JCK6
10 to 100 psi	031RD7000000000	3JCK5
Sandwich Single Air Regulator		
3 to 30 psi	031RS3000000000	3JCK4
10 to 100 psi	031RS7000000000	3JCK3
Speed Control Kit		
Speed Control Kit for Mark 3 Series Base/Manifolds	239-469	3JCK2

Description	Actuator/Return	VOLTAGE 120VAC Mfr. Model	120VAC Item No.	24VDC Mfr. Model	24VDC Item No.
Solenoid Air Control Valve					
DIN Plug-In Solenoid					
4-Way, 2-Position, 5-Port	Solenoid/Spring	031SA4002060T30	3JCG6	—	—
	Solenoid/Solenoid	—	—	031SS4004060T61	3JCH2
4-Way, 2-Position, 5-Port, Spring Centered	Solenoid/Spring	—	—	031SA4004060T61	3JCH1
4-Way, 3-Position, 5-Port, Open Center	Solenoid/Solenoid	031SS5002060T30	3JCG8	031SS5004060T61	3JCH3
4-Way, 3-Position, 5-Port, Closed Center	Solenoid/Solenoid	—	—	031SS6004060T61	3JCH4
Hardwired w/15" Leads					
4-Way, 2-Position, 5-Port	Solenoid/Spring	031SA4000000030	3JCH5	031SA400B000061	3JCH9
	Solenoid/Solenoid	031SS4000000030	3JCH6	—	—
4-Way, 3-Position, 5-Port, Open Center	Solenoid/Solenoid	—	—	031SS500B000061	3JCJ2
4-Way, 3-Position, 5-Port, Closed Center	Solenoid/Solenoid	—	—	031SS600B000061	3JCJ3



numatics

Mark 8 Series Subbase/Manifold-Mounted Solenoid Valves, Pressure Regulators

- 1.0 Cv
- Max. operating pressure: 150 psi
- Pressure regulators include gauge

Direct-acting valves have electrical connections made through base.

Description	Actuator/Return	Voltage 120VAC Mfr. Model	120VAC Item No.	24VDC Mfr. Model	24VDC Item No.
Mark 8 Valves					
Mark 8 Series Subbase/Manifold-Mounted Solenoid Air Valve					
4-Way, 2-Position	Solenoid/Spring	081SA400K000030	3JAW7	081SA400M000061	3JAX2
	Solenoid/Solenoid	081SS400K000030	3JAW8	081SS400M000061	3JAX3
4-Way, 3-Position, Open Center Position	Solenoid/Solenoid	081SS500K000030	3JAW9	081SS500M000061	3JAX4
4-Way, 3-Position, Closed Center Position	Solenoid/Solenoid	081SS600K000030	3JAX1	081SS600M000061	3JAX5

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Manifold Block	¼	1	229-676	3JAX6
Subbase Common Exhaust	¼	1	203-441	3JAX7
Subbase Individual Exhaust	¼	1	203-439	3JAX8
Manifold Accessories				
End Plate Kit			229-691	3JAX9
Blocking Disk			229-994	3JAY3

Description	Adjustment Range	Mfr. Model	Item No.
Pressure Regulators			
Single Pressure	10 to 130 psi	081RS100J000000	3JAY4
Dual Pressure	10 to 130 psi	081RD100J000000	3JAY5
Speed Control Kits			
Mark 8 Series Valves on Bases or Manifolds		245-160	3JAY1
Electrical Plug for Mark 8 Speed Control		230-276	3JAY2

numatics

Mark 15 Series Solenoid Valves, Subbase/ Manifolds, Pressure Regulators, and Accessories

- 1.5 Cv
- Max. operating pressure: 150 psi
- Pressure regulators include gauge

Subbase-mounted direct-acting solenoid valve; electrical connections made through base.



No. 3JAY6

Description	Actuator/Return	VOLTAGE 120VAC Mfr. Model	120VAC Item No.	24VDC Mfr. Model	24VDC Item No.
Mark 15 Valves					
4-Way, 2-Position	Solenoid/Spring	152SA400K000030	**3JAY6**	152SA400M000061	**3JAZ1**
4-Way, 2-Position, 5-Port	Solenoid/Solenoid	152SS400K000030	**3JAY7**	152SS400M000061	**3JAZ2**
4-Way, 3-Position, 5-Port, Open Center Position	Solenoid/Solenoid	152SS500K000030	**3JAY8**	152SS500M000061	**3JAZ3**
4-Way, 3-Position, 5-Port, Closed Center Position	Solenoid/Solenoid	152SS600K000030	**3JAY9**	152SS600M000061	**3JAZ4**

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Manifold Block	3/8	1	229-630	**3JAZ5**
Subbase Common Exhaust	3/8	1	203-361	**3JAZ6**
Subbase Individual Exhaust	3/8	1	203-359	**3JAZ7**
Manifold Accessories				
End Plate Kit			229-621	**3JAZ8**
Blank Station Plate Kit			229-620	**3JCA1**
Blocking Disk			124-141	**3JCA2**

Description	Adjustment Range	Mfr. Model	Item No.
Pressure Regulators			
Sandwich Single Air Regulator	10 to 130 psi	152RS100J000000	**3JCA3**
Sandwich Dual Air Regulator	10 to 130 psi	152RD100J000000	**3JCA4**
Speed Control Kit			
Mark 15 Series Valves on Bases or Manifolds		229-664	**3JAZ9**



No. 3JCA5



No. 3JCA7



No. 3JCD5



No. 3JCC8

numatics

Mark 55 Series Solenoid Valves, Subbase/ Manifolds, Pressure Regulators, and Accessories

Valves—Actuate by either a direct solenoid operator or solenoid pilot.
- 5.5 Cv
- Operating pressure range: full vacuum to 150 psi

Manifolds—Each manifold assembly requires 1 end plate kit (sold separately) to provide the supply and exhaust porting. Hardware for mounting valves to manifold, as well as electrical plugs for the valve to plug into the manifold base, are included.

Pressure Regulators and Speed Control Kit for Mark 55 Series—Include a plug receptacle assembly that helps reduce cost. Speed Control Kit No. 3JCF4 adjusts the metering of exhaust air to control cylinder speed.
- Regulators include gauge, with 1/8" NPT port

Type	Vacuum	VOLTAGE 120VAC Actuator/Return	120VAC Mfr. Model	120VAC Item No.	24VDC Actuator/Return	24VDC Mfr. Model	24VDC Item No.
Single Solenoid Valves							
4-Way, 2-Position	0 to 28"Hg	Solenoid/Spring	554SA400K000030	**3JCA5**	—	—	— —
	0 to 28"Hg	Solenoid Air Pilot/Spring	554BA400K000030	**3JCA6**	—	—	— —
	External pilot	—	—	— —	Solenoid Air Pilot/Spring	554BA400MT00061	**3JCC2**
Double Solenoid Valves							
4-Way, 2-Position	External pilot	Solenoid/Solenoid	554SS400K000030	**3JCA7**	Solenoid Air Pilot/Solenoid Air Pilot	554BB400MT00061	**3JCC3**
4-Way, 3-Position, Closed Center	External pilot	Solenoid/Solenoid	554SS600K000030	**3JCC1**	Solenoid Air Pilot/Solenoid Air Pilot	554BB600MT00061	**3JCC5**
4-Way, 3-Position, Open Center	External pilot	Solenoid/Solenoid	554SS500K000030	**3JCA9**	Solenoid Air Pilot/Solenoid Air Pilot	554BB500MT00061	**3JCC4**

Description	Mfr. Model	Item No.
Manifolds		
½ NPT Port (In.)		
Manifold Block Full Size	229-748	**3JCD6**
Sub-base Common Exhaust Item, 7⅜ x 2⅝	229-880	**3JCE2**
Sub-base Common Exhaust Item, 7¼ x 2 1/16	203-495	**3JCE6**
Sub-base Individual Exhaust	203-493	**3JCE8**
Subbase Common Exhaust Side & Bottom Ported	203-496	**3JCF1**
Subbase Individual Exhaust Side & Bottom Ported	203-494	**3JCF3**
¾ NPT Port (In.)		
Manifold Block Full Size	229-749	**3JCD5**
Sub-base Common Exhaust	229-881	**3JCE1**

Description	Mfr. Model	Item No.
Sub-base Common Exhaust, Side Ported	203-503	**3JCE5**
Sub-base Individual Exhaust, Side Ported	203-501	**3JCE7**
Sub-base Common Exhaust, Side & Bottom Ported	203-504	**3JCE9**
Subbase Individual Exhaust Side and Bottom Ported	203-502	**3JCF2**
Manifold Accessories		
Sub-base Common Exhaust, Compact	229-861	**3JCE3**
End Plate Kit, Full Size	229-841	**3JCD7**
Blocking Disk, Full Size, EA and EB Gallery	124-154	**3JCD8**
Blocking Disk, Full Size, P Gallery	124-153	**3JCD9**
Blocking Disk, Compact, All Galleries	124-160	**3JCE4**
Blank Station Plate Kit	229-840	**3JCF5**

Description	Adjustment Range	Mfr. Model	Item No.
Pressure Regulators			
Single Pressure	10 to 130 psi	554RS100JP00000	**3JCC8**
	3 to 30 psi	554RS300JP00000	**3JCC9**
Dual Pressure	10 to 130 psi	554RD100JP00000	**3JCD2**
	3 to 30 psi	554RD300JP00000	**3JCD3**
	5 to 60 psi	554RD400JP00000	**3JCD4**
Speed Control Kit, For Mark 55 Series Valves on Bases or Manifolds			
Kit	—	229-908	**3JCF4**

B Series Solenoid Air Control Valves, Coil Kits, and Accessories

Parker

- Max. operating pressure (valves only): 145 psi
- Min. operating pressure (valves only): 20 psi (B3, B5, and B6 series); 35 psi (B7 and B8 series)
- Max. temp. range (valves only): 5° to 120°F

Valves have a low-friction breakaway for fast response time. Low wear assures long service life.



No. 3FDT6



No. 3FDX9

Pilot Port Size	Cv	24VDC VALVES Mfr. Model	24VDC Item No.*	120VAC VALVES Mfr. Model	120VAC Item No.*
Single Solenoid, 3-Way, 2-Position, Normally Closed					
1/8" NPT	0.75	B3G0BB549C	**3FDN1**	B3G0BB553C	**3FDL5**
1/4" NPT	1.4	B5G1BB549C	**3FDN2**	B5G1BB553C	**3FDL6**
3/8" NPT	2.7	B6V2BB549A	**3FDN3**	B6V2BB553A	**3FDL7**
1/2" NPT	5.9	B7V3BB549A	**3FDN4**	B7V3BB553A	**3FDL8**
3/4" NPT	7	B8V4BB549A	**3FDN5**	B8V4BB553A	**3FDL9**
Single Solenoid, 4-Way, 2-Position					
1/8" NPT	0.75	B310BB549C	**3FDY2**	B310BB553C	**3FDR4**
1/4" NPT	1.4	B511BB549C	**3FDH5**	B511BB553C	**3FDT6**
3/8" NPT	2.7	B612BB549A	**3FDK6**	B612BB553A	**3FDU8**
1/2" NPT	5.9	B713BB549A	**3FDL3**	B713BB553A	**3FDW1**
3/4" NPT	7	B814BB549A	**3FDL4**	B814BB553A	**3FDX3**
Double Solenoid, 4-Way, 2-Position					
1/8" NPT	0.75	B320BB549C	**3FDP2**	B320BB553C	**3FDN6**
1/4" NPT	1.4	B521BB549C	**3FDP3**	B521BB553C	**3FDN7**
3/8" NPT	2.7	B622BB549A	**3FDP4**	B622BB553A	**3FDN8**
1/2" NPT	5.9	B723BB549A	**3FDP5**	B723BB553A	**3FDN9**
3/4" NPT	7	B824BB549A	**3FDP6**	B824BB553A	**3FDP1**

Pilot Port Size	Cv	24VDC VALVES Mfr. Model	24VDC Item No.*	120VAC VALVES Mfr. Model	120VAC Item No.*
Double Solenoid, 4-Way, 3-Position, Center Position Closed					
1/8" NPT	0.6	B350BB549C	**3FDR3**	B350BB553C	**3FDP7**
1/4" NPT	1.1	B551BB549C	**3FDR5**	B551BB553C	**3FDP8**
3/8" NPT	2.1	B652BB549A	**3FDR6**	B652BB553A	**3FDP9**
1/2" NPT	5.7	B753BB549A	**3FDR7**	B753BB553A	**3FDR1**
3/4" NPT	6.6	B854BB549A	**3FDR8**	B854BB553A	**3FDR2**
Double Solenoid, 4-Way, 3-Position, Pressure Center					
1/8" NPT	0.6	B370BB549C	**3FDV9**	B370BB553C	**3FDV4**
1/4" NPT	1.1	B571BB549C	**3FDW2**	B571BB553C	**3FDV5**
3/8" NPT	2.1	B672BB549A	**3FDW3**	B672BB553A	**3FDV6**
1/2" NPT	5.7	B773BB549A	**3FDW4**	B773BB553A	**3FDV7**
3/4" NPT	6.6	B874BB549A	**3FDW5**	B874BB553A	**3FDV8**
Double Solenoid, 4-Way, 3-Position, Center Exhaust					
1/8" NPT	0.6	B360BB549C	**3FDX2**	B360BB553C	**3FDW6**
1/4" NPT	1.1	B561BB549C	**3FDX4**	B561BB553C	**3FDW7**
3/8" NPT	2.1	B662BB549A	**3FDX5**	B662BB553A	**3FDW8**
1/2" NPT	5.7	B763BB549A	**3FDX6**	B763BB553A	**3FDW9**
3/4" NPT	6.6	B864BB549A	**3FDX7**	B864BB553A	**3FDX1**

** Requires DIN coil connector.*

Function	Item No.
B Service Kit	
3-Pin Connection 120VAC Lighted	**3FDY4**
B3 Body/Spool Service Kits	
4 Way, 2 Position	**3FDY5**
4 Way, 3 Position All Ports Blocked	**3FDY6**
4 Way, 3 Position Center Exhaust	**3FDY7**
4 Way, 3 Position Pressure Center	**3FDY8**
3 Way, 2 Position Normally Closed	**3FDY9**
B5 Body/Spool Service Kits	
4 Way, 2 Position	**3FDZ1**
4 Way, 3 Position All Ports Blocked	**3FDZ2**
4 Way, 3 Position Center Exhaust	**3FDH7**
4 Way, 3 Position Pressure Center	**3FDH9**
3 Way, 2 Position Normally Closed	**3FDJ2**
B6 Body/Spool Service Kits	
4 Way, 2 Position	**3FDJ5**
4 Way, 3 Position All Ports Blocked	**3FDJ7**
4 Way, 3 Position Center Exhaust	**3FDJ9**
4 Way, 3 Position Pressure Center	**3FDK2**
3 Way, 2 Position Normally Closed	**3FDK3**
3 Way, 2 Position Normally Open	**3FDK4**
B7 and B8 Body/Spool Service Kits	
4 Way, 2 Position	**3FDK5**
4 Way, 3 Position All Ports Blocked	**3FDK7**
4 Way, 3 Position Center Exhaust	**3FDK8**
4 Way, 3 Position Pressure Center	**3FDK9**
3 Way, 2 Position Normally Closed	**3FDL1**
3 Way, 2 Position Normally Open	**3FDL2**
Replacement Coils	
Replacement Solenoid Coil 120VAC	**3FDX9**
Replacement Solenoid Coil 24VDC	**3FDX8**
Seals	
Soft Seal Kit for 2-Position Valve	**3FDF8**
Soft Seal Kit for 3-Position Valve	**3FDF9**
Solenoid Coil Connector	
Required for use with Solenoids	**3FDY1**



No. 3FFC5

Parker

Viking Series Solenoid Air-Control Valves

- Max. operating pressure: 232 psi
- Operating temp. down to -40°F
- Direct pipe ported
- Requires 22 or 30mm solenoid

Pilot Port Size	Cv	SINGLE SOLENOID, 4-WAY, 2-POSITION Mfr. Model	Item No.	DOUBLE SOLENOID, 4-WAY, 2-POSITION Mfr. Model	Item No.
⅛" NPT	0.7	P2LAX591ESHDDN	3FFC1	P2LAX591EEHDDN	3FFA3
¼" NPT	1.3	P2LBX592ESHDDN	3FFC5	P2LBX592EEHDDN	3FFC4
⅜" NPT	2.5	P2LCX593ESHDDN	3FFC7	P2LCX593EEHDDN	3FFC6
½" NPT	2.7	P2LDX594ESHDDN	3FFC9	P2LDX594EEHDDN	3FFC8

Function	Item No.
Viking Xtreme Series Kits	
Solenoid Kit 30MM 3-Pin 12VDC Mobile Coil	3FFA4
Solenoid Kit 30MM 3-Pin 24VDC Mobile	3FFA5
Solenoid Kit Grommet 18" Lead 12VDC Mobile	3FFA6
Solenoid Kit Grommet 18" Lead 24VDC Mobile	3FFA7
Solenoid Kit Grommet 18" Lead 120VAC	3FFA8
22MM 3-Pin 12VDC Mobile	3FFA9
22MM 3-Pin 24VDC Mobile	3FFC2
22MM 3-Pin 120VAC	3FFC3
30MM 3-Pin 120VAC	3FEF7



No. 3FEM7

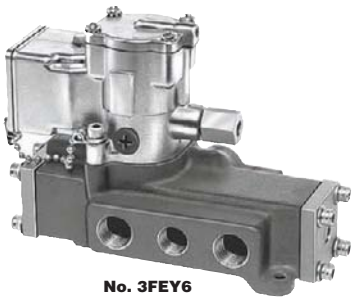
Parker

N Series Solenoid Air-Control Valves and Seal Kits

- Max. operating pressure: 140 psi
- Direct pipe ported

NPT Port (in.)	Cv	24VDC Mfr. Model	Item No.	120VAC Mfr. Model	Item No.
Single Solenoid, 2-Way, 2-Position, Normally Closed					
⅜	3.6	N3153904549	3FEJ6	—	—
½	3.8	N3154904549	3FEJ7	N3154904553	3FEM7
¾	9.3	N3156904549	3FEJ8	N3156904553	3FEN5
1	9.3	N31431091	3FEJ9	N3157904553	3FEP3
1¼	23.3	N3258504749	3FEK1	N3258904753	3FER1
1½	23.3	N3259504749	3FEK2	N3259904753	3FER7
Single Solenoid, 3-Way, 2-Position, Normally Closed					
⅜	3.6	N3553904549	3FEK9	N3553904553	3FEK3
½	3.8	N3554904549	3FEL1	N3554904553	3FEK4
¾	9.3	N3556904549	3FEL2	N3556904553	3FEK5
1	9.3	N3557904549	3FEL3	N3557904553	3FEK6
1¼	23.3	N3658504749	3FFD1	N3658904753	3FEK7
1½	23.3	—	—	N3659904753	3FEK8
Single Solenoid, 3-Way, 2-Position, Normally Open					
⅜	3.6	N3753904549	3FEM2	N3753904553	3FEL4
½	3.8	N3754904549	3FEM3	N3754904553	3FEL5
¾	9.3	N3756904549	3FEM4	N3756904553	3FEL6
1	9.3	N3757904549	3FEM5	N3757904553	3FEL7
1¼	23.3	N3858504749	3FEM6	N3858904753	3FEL8
1½	23.3	—	—	N3859904753	3FEM1

Function	Item No.
Coil Kits	
Coil 24VDC Small Wire	3FER5
Coil 115V-60	3FER6
Seal Kits	
For ⅜" N Series and Valvair II Series Valves	3FER2
For ¾" N Series and Valvair II Series Valves	3FER3
For 1¼" N Series and Valvair II Series Valves	3FER4



No. 3FEY6



No. 3FEW9

Parker

Valvair II Series Solenoid Air-Control Valves

- Max. operating pressure: 145 psi
- Plug-In: design simplifies maintenance, installation, and helps reduce downtime. No wiring or plumbing to disturb
- Direct Pipe: design helps deliver high performance, economical

NPT Port (in.)	Cv	24VDC Mfr. Model	Item No.	120VAC Mfr. Model	Item No.
Single Solenoid, 4-Way, 2-Position, Plug-In Subbase					
⅜	5	L6753910249	3FEW1	L6753910253	3FET8
1	11.3	L6758910249	3FEW3	L6758910253	3FEW2
Single Solenoid, 4-Way, 2-Position, Direct Pipe Ported					
1	12	L7058910249	3FEY6	L7058910253	3FEY4
1¼	12	L7059910249	3FEY7	L7059910253	3FEY5
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Pressure Center Position					
⅜	4.5	L6653923149	3FEX5	L6653923153	3FEX4
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Open Center Position					
⅜	4.5	L6653922149	3FEX3	L6653922153	3FEX2
1	11.3	L6658922149	3FEY1	L6658922153	3FEX9
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Closed Center Position					
⅜	4.5	L6653921149	3FEX1	L6653921153	3FEW8
1	11.3	L6658921149	3FEX8	L6658921153	3FEX7
Double Solenoid, 4-Way, 3-Position, Direct Pipe Ported, Open Center Position					
1	12	L6958922149	3FEU5	L6958922153	3FEU3
1¼	12	L6959922149	3FEU6	L6959922153	3FEU4
Double Solenoid, 4-Way, 3-Position, Direct Pipe Ported, Closed Center Position					
1¼	12	L6959921149	3FEU2	L6959921153	3FET9
1	12	L6958921149	3FEU1	L6958921153	3FEZ5
Double Solenoid, 4-Way, 2-Position, Plug-In Subbase					
1	11.3	L6558910249	3FEW7	L6558910253	3FEW6
⅜	5	L6553910249	3FEV9	L6553910253	3FEU8
Double Solenoid, 4-Way, 2-Position, Direct Pipe Ported					
1¼	12	L6859910249	3FEZ3	L6859910253	3FEZ1
1	12	L6858910249	3FEZ2	L6858910253	3FEY9

NPT Port (in.)	For Use With	Mfr. Model	Item No.
Manifolds			
⅜	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K142230	3FEW9
½	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K142231	3FEX6
¾	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K142270	3FEY2
Subbase			
⅜	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K022090	3FEY3
½	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K022091	3FEY8
¾	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K022101	3FEZ4
1	3FEW1, 3FEW3, 3FEV9, 3FEW7, 3FEX1, 3FEX8, 3FEX5, 3FEX3, 3FEY1	K022095	3FEW4

Function	Item No.
Coil Kits	
Coil 24VDC Small Wire	3FER5
Coil 115V-60	3FER6
Override Kits	
Nonlocking Type	3FEV7
Locking Type	3FEV8



No. 3FEA6



No. 3FEE6



No. 3FEJ3



No. 3FDF7

Parker

3- and 4-Way Manual Air Control Valves

DIRECTAIR SERIES

▪ Max. temp. range: 32° to 175°F

Compact design for manual or mechanical operation. Feature fluorocarbon seals and a stainless steel spool for greater chemical compatibility and the ability to withstand higher temperatures.

DirectAir 2 Series operators include roller, lever, push button, plunger, and 1-way tripper spool and poppet type valves. Features space-saving mounting to provide cylinder positioning feedback.

DirectAir 4 series operators include roller, lever, button, petal, and treadle foot operated valves.

M0 SERIES

▪ Max. temp. range: -15° to 200°F

Corrosion-resistant construction with bronze body and stainless steel spool allows valves to be used in either air or low-pressure oil applications. Closed crossover spool design minimizes compressed air waste as the valve shifts, for energy-efficient operation.

VIKING SERIES

▪ Max. temp. range: -40° to 158°F

Inline valves with lever operators are suitable for outdoor and transportation applications. Valves feature high flows, and dusttight and watertight construction.

42 SERIES

▪ Max. temp. range: 0° to 140°F

Compact inline valves are specifically made for applications that require very high flows.

Pipe Size	Cv	Actuator/Return	Max. Pressure	Mfr. Model	Item No.
Directair 2 Series					
3-Way, 2-Position					
1/8" NPT	0.2	Plunger/Spring	150 psi	404111000	**3FEA6**
	0.2	Roller/Spring	150 psi	404211000	**3FDZ3**
	0.2	1-Way Tripper/Spring	150 psi	404311000	**3FEA2**
	0.2	Button/Spring	150 psi	404411000	**3FEA4**
	0.2	Lever/Spring	150 psi	404711000	**3FEA5**
	0.2	Toggle/Spring	150 psi	404811000	**3FEA3**
	0.2	Plunger/Spring	150 psi	414111000	**3FEA7**
	0.2	Roller/Spring	150 psi	414211000	**3FEA8**
	0.2	1-Way Tripper/Spring	150 psi	414311000	**3FEA9**
	0.2	Button/Spring	150 psi	414411000	**3FEC2**
	0.2	Lever/Spring	150 psi	414711000	**3FEC4**
	0.2	Toggle/Spring	150 psi	414811000	**3FEC1**
	0.2	Button/Manual	150 psi	414931000	**3FEC3**
4-Way, 2-Position					
1/8" NPT	0.2	Plunger/Spring	150 psi	410111000	**3FEC5**
	0.2	Roller/Spring	150 psi	410211000	**3FEC6**
	0.2	1-Way Tripper/Spring	150 psi	410311000	**3FEC7**
	0.2	Button/Spring	150 psi	410411000	**3FDZ5**
	0.2	Lever/Spring	150 psi	410711000	**3FDZ7**
	0.2	Toggle/Spring	150 psi	410811000	**3FDZ4**
	0.2	Button/Manual	150 psi	410931000	**3FDZ6**
Seal Kits					
3-Way and 4-Way Spool and Poppet Type Valves, Body Service Kit				410008005	**3FEA1**
3-Way and 4-Way Valves, Spool Kit				410008000	**3FDZ8**
Directair 4 Series					
3-Way, 2-Position, Normally Closed					
1/4" NPT	0.8	Roller/Spring	150 psi	524211000	**3FEC9**
	0.8	Button/Spring	150 psi	524411000	**3FED5**
	0.8	Button/Manual	150 psi	524431000	**3FED8**
	0.8	Pedal/Spring	150 psi	524711000	**3FED4**
	0.8	Lever/Spring	150 psi	524811000	**3FED2**
	0.8	Lever/Manual	150 psi	524831000	**3FED3**
	0.8	Treadle/Manual	150 psi	524931000	**3FEC8**
	0.8	Roller/Spring	150 psi	524A11000	**3FED1**
3-Way, 3-Position					
1/4" NPT	0.8	Lever/Manual	150 psi	523831000	**3FED6**
4-Way, 2-Position					
1/4" NPT	0.8	Roller/Spring	150 psi	520211000	**3FEE3**
	0.8	Button/Spring	150 psi	520411000	**3FED7**
	0.8	Button/Manual	150 psi	520431000	**3FED9**
	0.8	Pedal/Spring	150 psi	520711000	**3FEE1**
	0.8	Lever/Spring	150 psi	520811000	**3FEE5**
	0.8	Lever/Manual	150 psi	520831000	**3FEE6**
	0.8	Treadle/Manual	150 psi	520931000	**3FEE2**
	0.8	Roller/Spring	150 psi	520A11000	**3FEE4**
4-Way, 3-Position, All Ports Blocked					
1/4" NPT	0.8	Lever/Spring	150 psi	521811000	**3FEE7**
	0.8	Lever/Manual	150 psi	521831000	**3FEF1**
4-Way, 3-Position, Exhaust Center					
1/4" NPT	0.8	Lever/Spring	150 psi	529811000	**3FEE9**
	0.8	Lever/Manual	150 psi	529831000	**3FEF3**
4-Way, 3-Position, Pressure Center					
1/4" NPT	0.8	Lever/Spring	150 psi	522811000	**3FEE8**
	0.8	Lever/Manual	150 psi	522831000	**3FEF2**
Kits					
Body Repair Kit				520018005	**3FEF5**
Panel Mounting Kit				520838004	**3FEF6**
Valve Seal				520008050	**3FEF4**

Pipe Size	Cv	Actuator/Return	Max. Pressure	Mfr. Model	Item No.
M0 Series					
3-Way, 2-Position					
3/8" NPT	3.4	Lever/Detent	225 psi	M05432443	**3FEF9**
	3.4	Knob/Detent	225 psi	M05432448	**3FEF8**
1/2" NPT	5.1	Lever/Detent	215 psi	M05442443	**3FEG1**
	5.1	Knob/Detent	215 psi	M05442448	**3FEG7**
3/4" NPT	9.5	Lever/Detent	200 psi	M05462443	**3FEG2**
	9.5	Knob/Detent	200 psi	M05462448	**3FEH6**
4-Way, 2-Position					
3/8" NPT	3.4	Knob/Detent	225 psi	M05435448	**3FEJ1**
	3.4	Lever/Detent	225 psi	M05435443	**3FEG3**
1/2" NPT	5.1	Knob/Detent	215 psi	M05445448	**3FEJ2**
	5.1	Lever/Detent	215 psi	M05445443	**3FEG4**
4-Way, 3-Position, All Ports Blocked					
3/8" NPT	3.5	Knob/Detent	225 psi	M05435148	**3FEJ3**
	3.4	Lever/Detent	225 psi	M05435143	**3FEG5**
1/2" NPT	5.1	Knob/Detent	215 psi	M05445148	**3FEJ4**
	5.2	Lever/Detent	215 psi	M05445143	**3FEG6**
3/4" NPT	8.7	Knob/Detent	200 psi	M05465148	**3FEJ5**
	9.5	Lever/Detent	200 psi	M05465143	**3FEG8**
Manual Operator Kits					
1/4 to 3/8" Palm Knob Assembly				M122004	**3FEG9**
1/4 to 3/8" Small Knob Assembly				M122001	**3FEH3**
1/2" Palm Knob Assembly				M122005	**3FEH1**
1/2 Small Knob Assembly				M122002	**3FEH4**
3/4" Palm Knob Assembly				M122006	**3FEH2**
3/4 Small Knob Assembly				M122003	**3FEH5**
Seal Kits					
3/8" Body				M242002	**3FEH7**
1/2" Body				M242003	**3FEH8**
3/4" Body				M242004	**3FEH9**
Viking Series					
4-Way, 2-Position					
1/8" NPT	0.7	Lever/Spring	232 psi	P2LAX591VS	**3FEZ6**
	0.7	Lever/Detent	232 psi	P2LAX591VV	**3FEZ7**
4-Way, 3-Position, All Ports Blocked					
1/8" NPT	0.5	Lever/Spring	232 psi	P2LAX69111	**3FEZ8**
	0.5	Lever/Detent	232 psi	P2LAX69122	**3FEZ9**
4-Way, 3-Position, Exhaust Center					
1/8" NPT	0.5	Lever/Spring	232 psi	P2LAX89111	**3FFA1**
	0.5	Lever/Detent	232 psi	P2LAX89122	**3FFA2**

Pipe Size	Cv	Actuator/Return	Max. Pressure	Mfr. Model	Item No.
42 Series					
4-Way, 2-Position					
3/8" NPT	2.9	Foot Pedal/Spring	150 psi	422CT021K	**3FDF7**
4-Way, 2-Position, Parallel					
3/8" NPT	2.9	Lever/Spring	150 psi	422CS021K	**3FDG1**
	2.9	Lever/Detent	150 psi	422CS021W	**3FDG2**
4-Way, 2-Position, Perpendicular					
3/8" NPT	2.9	Lever/Spring	150 psi	422CR021K	**3FDG3**
	2.9	Lever/Detent	150 psi	422CR021W	**3FDG4**
4-Way, 3-Position, Parallel, All Ports Blocked					
3/8" NPT	1.3	Lever/Detent	150 psi	422CS023W	**3FDG6**
4-Way, 3-Position, Parallel, Exhaust Center					
3/8" NPT	1.3	Lever/Detent	150 psi	422CS024W	**3FDG8**
4-Way, 3-Position, Perpendicular, All Ports Blocked					
3/8" NPT	1.3	Lever/Detent	150 psi	422CR023W	**3FDH1**
4-Way, 3-Position, Perpendicular, Exhaust Center					
3/8" NPT	1.3	Lever/Detent	150 psi	422CR024W	**3FDH3**

Parker

Pilot-Operated Air Valves

- Temp. range: 0° to 200°F (N Series); 5° to 120°F (B Series)

Feature external pilot, wide range of flow, and low-friction breakaway. Can be run unlubricated.


No. 3FEM9


No. 3FDU9

Port Size (in.)	Cv	Max. Operating (psi)	Pilot Port Size NPT (in.)	Mfr. Model	Item No.
2-Way, Normally Closed, Single Air Pilot					
⅜ Inlet, ½ Exhaust	3.60	140	¼	N31431091	**3FEM8**
½ Inlet, ½ Exhaust	3.80	140	¼	N31441091	**3FEM9**
¾ Inlet, 1 Exhaust	9.30	140	¼	N31461091	**3FEN1**
1 Inlet, 1 Exhaust	9.30	140	¼	N31471091	**3FEN2**
1½ Inlet, 1½ Exhaust	23.30	140	¼	N32491091	**3FEN4**
3-Way, 2-Position, Normally Open, Single Air Pilot					
⅜ Inlet, ½ Exhaust	3.60	140	¼	N37431091	**3FEP4**
½ Inlet, ½ Exhaust	3.80	140	¼	N37441091	**3FEP5**
¾ Inlet, 1 Exhaust	9.30	140	¼	N37461091	**3FEP6**
1 Inlet, 1¼ Exhaust	9.30	140	¼	N37471091	**3FEP7**
1¼ Inlet, 1½ Exhaust	23.30	140	¼	N38481091	**3FEP8**
1½ Inlet, 1½ Exhaust	23.30	140	¼	N38491091	**3FEP9**
3-Way, 2-Position, Normally Closed, Single Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145	10-32 UNF	B3K0000XXC	**3FDT5**
¼ Inlet, ¼ Exhaust	1.40	145	⅛	B5K1000XXC	**3FDT7**
⅜ Inlet, ⅜ Exhaust	2.70	145	⅛	B6X2000XXA	**3FDT8**
⅜ Inlet, ½ Exhaust	3.60	140	¼	N35431091	**3FEN6**
½ Inlet, ½ Exhaust	3.80	140	¼	N35441091	**3FEN7**
½ Inlet, ½ Exhaust	5.90	145	⅛	B7X3000XXA	**3FDT9**
¾ Inlet, ¾ Exhaust	7.00	145	⅛	B8X4000XXA	**3FDU1**
¾ Inlet, 1 Exhaust	9.30	140	¼	N35461091	**3FEN8**
1 Inlet, 1¼ Exhaust	9.30	140	¼	N35471091	**3FEN9**
1¼ Inlet, 1½ Exhaust	23.30	140	¼	N36481091	**3FEP1**
1½ Inlet, 1½ Exhaust	23.30	140	¼	N36491091	**3FEP2**
4-Way, 2-Position, Single Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145	10-32 UNF	B330000XXC	**3FDR9**
¼ Inlet, ¼ Exhaust	1.40	145	10-32 UNF	B531000XXC	**3FDT1**
⅜ Inlet, ⅜ Exhaust	2.70	145	⅛	B632000XXA	**3FDT2**
½ Inlet, ½ Exhaust	5.90	145	⅛	B733000XXA	**3FDT3**
¾ Inlet, ¾ Exhaust	7.00	145	⅛	B834000XXA	**3FDT4**
4-Way, 2-Position, Double Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145	10-32 UNF	B340000XXC	**3FDU2**
¼ Inlet, ¼ Exhaust	1.40	145	⅛	B541000XXC	**3FDU3**
⅜ Inlet, ⅜ Exhaust	2.70	145	⅛	B642000XXA	**3FDU4**
½ Inlet, ½ Exhaust	5.90	145	⅛	B743000XXA	**3FDU5**
¾ Inlet, ¾ Exhaust	7.00	145	⅛	B844000XXA	**3FDU6**
4-Way, 3-Position, Double Air Pilot, All Ports Blocked					
⅛ Inlet, ⅛ Exhaust	0.60	145	10-32 UNF	B380000XXC	**3FDU7**
¼ Inlet, ¼ Exhaust	1.10	145	⅛	B581000XXC	**3FDU9**
⅜ Inlet, ⅜ Exhaust	2.10	145	⅛	B682000XXA	**3FDV1**
½ Inlet, ½ Exhaust	5.70	145	⅛	B783000XXA	**3FDV2**
¾ Inlet, ¾ Exhaust	6.60	145	⅛	B884000XXA	**3FDV3**


No. 4EY60



No. 2G635


No. 4KP81


No. 2F907



No. 2F895

ARO

Sleeve, Shuttle, Quick Exhaust, Miniature, and Heavy-Duty Valves

- Temp. range: 32° to 160°F

Sleeve Valves—Inline valves allow 1-handed exhausting of compressed air lines using On/Off control. When exhaust ports are closed, the air line opens to actuate the air device. Sliding the sleeve in the opposite direction opens exhaust ports and shuts off the air supply.

Shuttle Valves—Connect 2 different inputs so that only 1 output is on at a time. 10 psi min. required to effect shuttle change.

Quick Exhaust Valves—Increase cylinder speed by providing quick release of exhausting air.

Miniature Air Pilot Directional Valve—Compact mini valve can be operated remotely using an air pilot signal. Shifts back to original position when signal is removed.

Miniature Manual and Mechanical Valves, Heavy Duty Composite Limit Valves, and Actuating Arms—Valves can be plumbed as normally passing, nonpassing, or multipurpose. 3-way, 2-position.



No. 4LB49


No. 2F919

Port Size (in.)	Actuator/Return	Max. Operating (psi)	Cv	CFM	Mfr. Model	Item No.
Sleeve Valve						
⅛ NPT	Manual	200	0.4	14.5	600-1	**4EY59**
¼ NPT	Manual	200	1.0	36	600-2	**4EY60**
⅜ NPT	Manual	200	1.7	59	600-3	**4EY61**
½ NPT	Manual	200	3.8	127	600-4	**4EY62**
Shuttle Valve						
⅛ NPT	—	200	0.7	—	SV10-C	**2G635**
¼ NPT	—	200	0.7	—	SV20-C	**2G637**
Quick Exhaust						
Inlet ¼", Cyl ¼", Exh ⅜"	—	125	0.195	—	EV250	**4KP82**
Inlet ⅛", Cyl ⅛", Exh ¼"	—	125	0.195	—	EV125	**4KP81**
Inlet ⅜", Cyl ⅜", Exh ⅜"	—	125	0.195	—	EV375	**4KP83**
Miniature Pilot and Mechanical Valve						
⅛	Pilot/Spring	150	0.20	4	206-C	**1XWU1**

Port Size (in.)	Actuator/Return	Max. Operating (psi)	Cv	CFM	Mfr. Model	Item No.
Miniature Manual and Mechanical Valve						
⅛ NPT	Ball Roller/Spring	150	0.2	7.5	213-C	**2F901**
	Button/Spring	150	0.2	7.5	224-C	**2F907**
	Fingertip Lever/Spring	150	0.2	7.5	201-C	**2F893**
	Pin Plunger/Spring	150	0.2	7.5	209-C	**2F897**
	Plunger/Spring	150	0.2	7.5	214-C	**2F903**
	Roller/Spring	150	0.2	7.5	212-C	**4LB52**
	Roller Lever/Spring	150	0.2	7.5	203-C	**2F895**
	Roller Lever/Spring	150	0.2	7.5	202-C	**4LB50**
	Toggle/Manual	150	0.2	7.5	223-C	**2F905**
5⁄32 Tubing	Button/Spring	150	0.1	4	224-2-C	**4LB46**
	Fingertip Lever/Spring	150	0.1	4	201-2-C	**4LB44**
	Long Roller Lever/Spring	150	0.1	4	203-2-C	**4LB47**
	Pin Plunger/Spring	150	0.1	4	209-2-C	**4LB48**
	Plunger/Spring	150	0.1	4	214-2-C	**4LB49**
	Retained Toggle/Manual	150	0.1	4	223-2-C	**4LB45**
	Roller/Spring	150	0.1	4	212-2-C	**4LB53**
	Roller Lever/Spring	150	0.1	4	202-2-C	**4LB51**
Heavy-Duty Composite Limit Valves						
⅛ NPT	Clockwise/Spring	150	0.2	7.5	400-A	**2F919**
	Clockwise and Counterclockwise/Spring	150	0.2	7.5	402-A	**2F923**
	Counterclockwise/Spring	150	0.2	7.5	401-A	**2F921**
5⁄32 Tubing	1-Way Clockwise/Spring	150	0.1	4	400-1-A	**4LB54**
	1-Way Counterclockwise/Spring	150	0.1	4	401-1-A	**4LB55**
	Clockwise and Counterclockwise/Spring	150	0.1	4	402-1-A	**4LB56**
Actuating Arms Used with Heavy-Duty Limit Valves (1 Required for Each Valve)						
Adjustable Roller Lever					450	**2F929**
Nylon Roller					447	**2F925**
Rod Lever					449	**2F927**


No. 2G529


No. 2G537


No. 2G515


No. 4ZJ91

ARO®

3- and 4-Way Heavy-Duty Manual and Mechanical Power Valves

Port Size (in.)	Actuator/Return	Cv	Temp. Range	CFM	Max. Pressure	Mfr. Model	Item No.
3-Way, 2-Position							
	Button/Manual	0.4	-10° to 180°F	16	150 psi	5030-12	**2F941**
	Button/Spring	0.4	-10° to 180°F	16	150 psi	5030-02	**2F933**
⅛ NPT	Cam Stem/Spring	0.4	-10° to 180°F	16	150 psi	5030-06	**2F937**
	Lever/Manual	0.4	-10° to 180°F	16	150 psi	5030-10	**2F939**
	Lever/Spring	0.4	-10° to 180°F	16	150 psi	5030-01	**2F931**
5/32 Tube	Button/Spring	0.2	-25° to 200°F	7.5	150 psi	461-2	**1MLD8**
	Button/Manual	0.7	-10° to 180°F	26	150 psi	E252HM	**2G527**
	Button/Spring	0.7	-10° to 180°F	26	150 psi	E252HS	**2G529**
	Foot Pedal/Manual	0.7	32° to 160°F	26	150 psi	M252TM	**4EY63**
	Foot Pedal/Spring	0.7	32° to 160°F	26	150 psi	M252TS	**4EY70**
¼ NPT	Foot Pedal/Spring	0.7	-10° to 180°F	26	150 psi	E252FS	**2G525**
	Lever/Manual	0.7	-10° to 180°F	26	150 psi	E252LM	**2G531**
	Lever/Spring	0.7	-10° to 180°F	26	150 psi	E252LS	**2G533**
	Roller Cam/Spring	0.7	-10° to 180°F	26	150 psi	E252RS	**2G535**
	Treadle/Manual	0.7	-10° to 180°F	26	150 psi	E252TM	**2G537**
4-Way, 2-Position							
	Button/Manual	0.4	-10° to 180°F	16	150 psi	5040-12	**2F953**
	Button/Spring	0.4	-10° to 180°F	16	150 psi	5040-02	**2F945**
⅛ NPT	Cam Stem/Spring	0.4	-10° to 180°F	16	150 psi	5040-06	**2F949**
	Lever/Manual	0.4	-10° to 180°F	16	150 psi	5040-10	**2F951**
	Lever/Spring	0.4	-10° to 180°F	16	150 psi	5040-01	**2F943**
	Roller Cam/Spring	0.4	-10° to 180°F	16	150 psi	5040-05	**2F947**
	Button/Manual	0.7	-10° to 180°F	26	150 psi	E212HM	**2G511**
	Button/Spring	0.7	-10° to 180°F	26	150 psi	E212HS	**2G513**
	Foot Pedal/Manual	0.7	32° to 160°F	26	150 psi	M212TM	**4EY64**
	Foot Pedal/Spring	0.7	-10° to 180°F	26	150 psi	E212FS	**2G509**
	Foot Pedal/Spring	0.7	32° to 160°F	26	150 psi	M212TS	**4EY75**
	Foot Treadle/Manual	0.7	-10° to 180°F	26	150 psi	E212TM	**2G521**
¼ NPT	Lever/Manual	0.7	-10° to 180°F	26	150 psi	E212LM	**2G515**
	Lever/Manual	0.7	15° to 122°F	26	140 psi	M212LM-R	**4LB42** ‡
	Lever/Manual	0.7	15° to 122°F	26	140 psi	M212LM	**1MLE1**
	Lever/Spring	0.7	-10° to 180°F	26	150 psi	E212LS	**2G517**
	Lever/Spring	0.7	15° to 122°F	26	140 psi	M212LS-R	**4LB43** ‡
	Lever/Spring	0.7	15° to 122°F	26	140 psi	M212LS	**1MLD9**
	Roller Cam/Spring	0.7	-10° to 180°F	26	150 psi	E212RS	**2G519**
	Rotary Lever/Manual	1.2	15° to 122°F	40	140 psi	M112LR	**4YTF4**
	Foot Pedal/Spring	2.3	-10° to 180°F	83	150 psi	K213FS	**4HN64**
	Foot Treadle/Manual	2.3	-10° to 180°F	83	150 psi	K213TM	**4HN67**
⅜ NPT	Lever/Manual	2.3	-10° to 180°F	83	150 psi	K213LM	**4HN65**
	Lever/Spring	2.3	-10° to 180°F	83	150 psi	K213LS	**4HN66**
	Rotary Lever/Manual	2.0	15° to 122°F	65	140 psi	M113LR	**4YTF5**
½ NPT	Rotary Lever/Manual	2.4	15° to 122°F	85	140 psi	M114LR	**4YTF6**
4-Way, 3-Position (All Ports Blocked In Neutral)							
¼ NPT	Lever/Manual	0.7	-10° to 180°F	26	150 psi	E512LM	**2G541**
	Lever/Spring	0.7	-10° to 180°F	26	150 psi	E312LS	**2G539**
	Foot Treadle/Manual	2.3	-10° to 180°F	83	150 psi	K513TM	**4HN70**
⅜ NPT	Lever/Manual	2.3	-10° to 180°F	83	150 psi	K513LM	**4HN69**
	Lever/Spring	2.3	-10° to 180°F	83	150 psi	K313LS	**4HN68**
4-Way, 3-Position (Inlet Port Blocked, Cylinder Ports Open)							
¼ NPT	Lever/Manual	0.7	-10° to 180°F	26	150 psi	E612LM	**2G543**
	Lever/Spring	0.7	-10° to 180°F	26	150 psi	E712LS	**2G545**
4-Way, 3-Position, (Closed Center)							
¼ NPT	Rotary Lever/Manual	1.2	15° to 122°F	4.3	140 psi	M512LR	**4ZJ90**
⅜ NPT	Rotary Lever/Manual	2.0	15° to 122°F	4.3	140 psi	M513LR	**4ZJ91**
½ NPT	Rotary Lever/Manual	2.4	15° to 122°F	85	140 psi	M514LR	**4ZJ92**
Footguard							
Mfr. No. E212FS, K213 FS and E252FS Only						20965-1	**2F899**

‡ Can be used with MaxAir manifolds, sold separately on page 2550.


No. 3NA99


No. 3NB18


No. 3NA97

ARO®

3- and 4-Way Manual, Pilot, and Mechanical Light-Duty Circuitry Valves

- Max. operating pressure: 150 psi
- Temp. range: 32° to 160°F

Light-duty actuating directional control valves power devices such as cylinders, slides, or gates. Compact body is aluminum bar construction, providing light weight. ⅛" and ¼" port valves. Choose from toggle, push-button, palm-button, turn selector, and roller mechanical actuators.

Port Size (in.)	Actuator/Return	Cv	CFM	Mfr. Model	Item No.
3-Way, 2-Position Valves					
	Button/Spring	0.2	8	M291HS-10	**3NA99**
	Button/Spring	0.2	7	M251HS	**3NB17**
	Button/Spring with Detent	0.2	8	M291HS-15	**3NB10**
	Button/Spring without Guard	0.2	8	M291HS-11	**3NB11**
⅛ NPT	Long Knob Selector/Manual	0.2	8	M291LS-11	**3NB14**
	Remote Pilot/Spring	0.19	7	M251PS	**4YTE8**
	Roller/Spring	0.2	7	M251RS	**3NB15**
	Toggle/Maintained	0.2	7	M251LS	**3NB16**
	Turn Selector/Manual	0.2	8	M291LS-10	**3NB13**
	Button/Spring	0.7	26	M252HS-10	**3NA87**
	Button/Spring with Detent	0.7	26	M252HS-15	**3NA88**
¼ NPT	Button/Spring with Guard	0.7	26	M252HS-11	**3NA89**
	Long Knob Selector/Manual	0.7	26	M252LS-11	**3NA92**
	Turn Selector/Manual	0.7	26	M252LS-10	**3NA91**
4-Way, 2-Position Valves					
	Button/Spring	0.2	9	M211HS	**3NB20**
⅛ NPT	Remote Pilot/Spring	0.19	9	M211PS	**4YTE9**
	Roller/Spring	0.2	9	M211RS	**3NB18**
	Toggle/Maintained	0.2	9	M211LS	**3NB19**
	Button/Spring	0.7	26	M212HS-10	**3NA93**
¼ NPT	Extended Push Button/Spring	0.7	26	M212HS-11	**3NA95**
	Long Knob Selector/Manual	0.7	26	M212LS-11	**3NA98**
	Turn Selector/Manual	0.7	26	M212LS-10	**3NA97**

Item	For Use With Mfr. Model Number	Item No.
Replacement Parts		
Roller Lever Attachment	M251xx, M211xx Models	**4YTF7**
Ball Plunger Attachment		**4YTF8**
Air Pilot Attachment		**4YTF9**
Finger Button Attachment		**4YTG1**



No. 6JJ54

Premair Valves

ARO®

- Max. operating pressure: 125 psi
- Max. temp. range: 32° to 125°F
- ⅛" NPT port
- 0.144 Cv
- 6.9 cfm
- 24" lead wires

2-position, direct-acting valves can be stacked or used as stand-alone units. Feature solenoid/spring actuator/return, lead wire connection, and standard manual override. Stacking End Plate Kit No. 6JG85 required for each 3- and 4-way stack.

Description	120VAC COIL Mfr. Model	120VAC COIL Item No.	24VDC COIL Mfr. Model	24VDC COIL Item No.	12VDC COIL Mfr. Model	12VDC COIL Item No.
3-Way Body Ported	P251SS-120-A	**6JJ54**	P251SS-024-D	**6JJ53**	P251SS-012-D	**6JJ52**
3-Way Stacking	P261SS-120-A	**6JJ57**	P261SS-024-D	**6JJ56**	—	—
4-Way Body Ported	P211SS-120-A	**6JJ45**	P211SS-024-D	**6JJ44**	P211SS-012-D	**6JJ43**
4-Way Body Ported with Speed Control	P211SC-120-A	**6JJ42**	P211SC-024-D	**6JJ41**	P211SC-012-D	**6JJ40**
4-Way Stacking without Speed Control	P221SS-120-A	**6JJ51**	P221SS-024-D	**6JJ50**	—	—
4-Way Stacking with Speed Control	P221SC-120-A	**6JJ48**	P221SC-024-D	**6JJ47**	—	—
3- and 4-Way Stacking End Plate Kit	P114400	**6JG85**	—	—	—	—

Miniature Direct-Acting Solenoid Valves and Coils

ARO®

Valves—Suitable for air or inert gas. 3-way, 2-position electric-to-air interface valves are solenoid-actuated with spring return and have sufficient flow for cylinders 1" dia. and smaller. Low-watt models draw 0.94W.

- Max. operating pressure: 150 psi, except 115 psi for Low-Watt coils
- Max. temp. range: 0° to 122°F

Coils and Connectors—Total coil rating is 311°F, which includes heat rise. AC or DC coils can be interchanged on same solenoid stem. 1 connector required for each coil.

- Max. temp. range: 0° to 122°F
- 100% duty cycle

Hazardous Location Solenoid Coils—Coils fit on the same 22mm armature assembly used by Alpha-, MaxAir-, CAT-, H-, and K-series ARO brand valves available on this page and pages 2550 to 2551. For use in areas where air contains combustible dust or chemical fumes.

- Max. temp. range: 0° to 311°F
- 100% duty cycle coil insulation type



No. 4HN48

Note: Coils sold separately on this page.

Pipe Size	Voltage	Cv	CFM	Mfr. Model	Item No.	
Body Ported, Normally Nonpassing Valves						
⅛"	12VDC	0.062	2.2	CAT33P-012-D	**2G485**	
	24VDC	0.062	2.2	CAT33P-024-L	**4KB43**	
	120VAC	0.062	2.2	CAT33P-120-A	**2G487**	
	No Coil	0.062	2.2	CAT33P-000-N	**2G483**	*
¼"	12VDC	0.2	7.0	CAT66P-012-D	**4HN46**	
	24VDC	0.2	7.0	CAT66P-024-D	**4HN47**	
	24VDC	0.062	2.2	CAT66P-024-L	**4KB45**	
	120VAC	0.2	7.0	CAT66P-120-A	**4HN48**	
	No Coil	0.2	7.0	CAT66P-000-N	**4KP78**	*
⅛"	12VDC	0.056	2.0	CAT44P-012-D	**2G497**	
	120VAC	0.056	2.0	CAT44P-120-A	**2G499**	
¼"	12VDC	0.2	7.0	CAT88P-012-D	**4HN52**	
	24VDC	0.2	7.0	CAT88P-024-D	**4HN53**	
	120VAC	0.2	7.0	CAT88P-120-A	**4HN54**	
Stackable, Normally Nonpassing Valves						
⅛"	12VDC	0.048	1.8	CAT33S-012-D	**2G491**	
	24VDC	0.048	1.8	CAT33S-024-L	**4KB47**	
	120VAC	0.048	1.8	CAT33S-120-A	**2G493**	
¼"	12VDC	0.2	7.0	CAT77S-012-D	**4HN49**	
	24VDC	0.2	7.0	CAT77S-024-D	**4HN50**	
	24VDC	0.062	2.2	CAT77S-024-L	**4KB48**	
	120VAC	0.2	7.0	CAT77S-120-A	**4HN51**	

Coils sold separately on this page.

Voltage	Mfr. Model	Item No.
22mm Replacement Solenoid Coils for ARO ⅛" Valves		
24VAC/12VDC	116218-38	**4HN40**
24VDC	116218-39	**2F793**
120VAC	116218-33	**4HN39**
240VAC	116218-35	**2F789**

Voltage	Mfr. Model	Item No.
30mm Replacement Solenoid Coils for ARO ¼" Valves		
12VDC	119690-38	**4KP76**
24VDC	119690-39	**4KP77**
120VAC	119690-33	**4KP73**
240VAC	119690-35	**4KP74**

Description	Voltage	Mfr. Model	Item No.
22mm Connectors for ARO ⅛" Valves			
Without Lead Wires	120VAC, 240VAC/12VDC, 24VDC	CSN	**2G505**
With 18" Lead Wires	120VAC, 240VAC/12VDC, 24VDC	CDW	**2G501**
With 36" Molded Cable	120VAC, 240VAC/12VDC, 24VDC	CHW	**2G503**
With Indicator Light, 36" Leads	120VAC	CHL-120	**4KB60**
With Indicator Light, 36" Leads	24VDC	CHL-024	**4KB61**
30mm Connectors for ARO ¼" Valves			
Without Lead Wires	120VAC, 240VAC/12VDC, 24VDC	CSN-30	**4HN57**
With 18" Lead Wires	120VAC, 240VAC/12VDC, 24VDC	CDW-30	**4HN55**
With 36" Molded Cable	120VAC, 240VAC/12VDC, 24VDC	CHW-30	**4HN56**



No. 4HN39

Description	Mfr. Model	Item No.
Stacking Kits for ¼" Port Mini Solenoid Valve Nos. 4HN49, 4HN50, 4KB48, 4HN51		
2 Station	119698-2	**1MLD3**
3 Station	119698-3	**1MLD4**
4 Station	119698-4	**1MLD5**
5 Station	119698-5	**1MLD6**
6 Station	119698-6	**1MLD7**

Description	Mfr. Model	Item No.
Stacking Kits for ⅛" Port Mini Solenoid Valve Nos. 2G491, 4KB47, 2G493		
2 Station	116345-2	**1MLC7**
3 Station	116345-3	**1MLC8**
4 Station	116345-4	**1MLC9**
6 Station	116345-6	**1MLD2**

Voltage	Inrush Amps	Holding Amps	Mfr. Model	Item No.
Hazardous Location Solenoid Coils for ⅛" Ported Valves				
120VAC	0.08	0.05	114772-33	**4KB33**
24VDC	0.40	0.30	114772-39	**4KB34**



No. 2G503

Compact Solenoid Valves

ARO®

- Max. operating pressure: 115 psi
- Max. temp. range: 0° to 122°F
- 18mm wide, ⅛" NPT ported

Feature a standard 1-touch push override and require 1 solenoid connector, sold separately, per coil.



No. 4KB51

Air Valve Type	Actuator/Return	Cv	CFM	120VAC COIL Mfr. Model	120VAC COIL Item No.	24VDC COIL Mfr. Model	24VDC COIL Item No.	12VDC COIL Mfr. Model	12VDC COIL Item No.
⅛" Body Ported Solenoids									
4-Way, 2-Position	Solenoid/Spring	0.7	30	M812SS-120-A	**4TR81**	M812SS-024-D	**4TR80**	M812SS-012-D	**4TR79**
4-Way, 2-Position	Solenoid/Solenoid	0.7	30	M812SD-120-A	**4TR78**	M812SD-024-D	**4TR77**	M812SD-012-D	**4TR76**
⅛" Body Ported Solenoids, Closed Center Position									
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M813SD-120-A	**4TR84**	M813SD-024-D	**4TR83**	M813SD-012-D	**4TR82**
⅛" Body Ported Solenoids, Open Center Position									
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M817SD-120-A	**4TR87**	M817SD-024-D	**4TR86**	M817SD-012-D	**4TR85**
⅛" Manifold Mounted Valves									
4-Way, 2-Position	Solenoid/Spring	0.3	30	M819SS-120-A	**4KB49**	M819SS-024-D	**4KB50**	—	—
4-Way, 2-Position	Solenoid/Solenoid	0.3	30	M819SD-120-A	**4KB51**	M819SD-024-D	**4KB52**	—	—

No. of Stations*	Mfr. Model	Item No.
Manifolds for Body Ported Valves		
2	SML81N-02	**4TR91**
4	SML81N-04	**4TR92**

No. of Stations*	Mfr. Model	Item No.
Manifolds for Manifold Mounted Valves		
2	SMH81N-02	**4KB53**
4	SMH81N-04	**4KB54**
6	SMH81N-06	**4KB55**
8	SMH81N-08	**4KB56**
10	SMH81N-10	**4KB57**

When using an odd number of stations, Blanking Plate No. 2F865 (sold separately on Grainger.com®) must be used.

Description	Mfr. Model	Item No.
Solenoid Connectors		
Connector, 16mm, 39" Molded Leads	CHW6	**4TR74**
Connector with Indicator Light, 16mm, 39" Leads, 24VDC	CHL6-024	**4KB58**
Connector with Indicator Light, 16mm, 39" Leads, 120VAC	CHL6-120	**4KB59**
Connector, 16mm DIN, Strain Relief	CSN6	**4TR75**



No. 4TR80

ARO®

Manifold Solenoid Valves

- Operating pressure range: 50 to 150 psi
- Temp. range: 0° to 180°F
- 1.2 Cv
- Up to 600 cycles/min.
- Uses 22mm coils

Offer easy valve removal and replacement. Can be used with vacuum with external pilot supply.

Note: When operating below 50 psi, Low-Pressure Kit No. 4HN96 must be used.

Note: Coils and connectors available separately, this page.

Pipe Size	Actuator/Return	Voltage	Mfr. Model	Item No.
Valves, 4-Way, 2-Position				
¼"	Solenoid/Spring	12VDC	A249SS-012-D	**2G443**
	Solenoid/Spring	24VDC	A249SS-024-D	**4XT40**
	Solenoid/Spring	120VAC	A249SS-120-A	**2G445**
	Solenoid/Solenoid	120VAC	A249SD-120-A	**2G439**
Valves, 4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral)				
¼"	Solenoid/Solenoid	120VAC	A349SD-120-A	**2G463**
Accessories for Compact Stacking Power Valves				
Low Pressure Kit			119306	**4HN96**

Description	Mfr. Model	Item No.
Valve Manifolds		
2-Station Valve Manifold	118605-2	**2F833**
4-Station Valve Manifold	118605-4	**2F835**
6-Station Valve Manifold	118605-6	**2F837**
8-Station Valve Manifold	118605-8	**2F839**
Station Blanking Kit	118612	**2F841**
Dual-Speed Control Kit	118618	**2F843**



No. 2G445


No. 4HN63


No. 2G555


No. 2G553

Body-Ported High-Flow Solenoid Valves

ARO

- Max. temp. range: -10° to 180°F
- 100% duty cycle
- Uses 22mm coils

Prelubed units can operate without air line lubrication. 1 connector required for each coil; each is its own junction box with molded connectors and gaskets to protect electrical connections. Total coil rating is 211°F which includes heat rise. 4-way K-series valves have solenoid override for easy means of setting up and troubleshooting circuits without power to the solenoids.

Note: 22mm coils and connectors available separately, see page 2549.

Pipe Size	Actuator/Return	Voltage	Max. Operating (psi)	CFM	Cv	Mfr. Model	Item No.	
3-Way, 2-Position (H Series)								
⅜"	Solenoid/Spring	120VAC	30 to 150	81	2.3	H253SS-120-A	**4HN60**	
	Solenoid/Spring	No Coil	30 to 150	81	2.3	H253SS-000-N	**4HN58**	*
½"	Solenoid/Spring	120VAC	30 to 150	85	2.4	H254SS-120-A	**4HN63**	
	Solenoid/Spring	No Coil	30 to 150	85	2.4	H254SS-000-N	**4HN61**	*
4-Way, 2-Position (K Series)								
½"	Solenoid/Solenoid	120VAC	20 to 150	90	2.6	K214SD-120-A	**2G555**	
	Solenoid/Spring	120VAC	50 to 150	90	2.6	K214SS-120-A	**2G553**	
¾"	Solenoid/Spring	120VAC	50 to 150	270	7.5	K216SS-120-A	**2G557**	
4-Way, 3-Position (K Series)								
⅜"	Solenoid/Solenoid	120VAC	60 to 150	83	2.3	K313SD-120-A	**1XWU4**	
½"	Solenoid/Solenoid	120VAC	60 to 150	90	2.57	K314SD-120-A	**1XWU5**	

**** Order coils separately.***

ARO

MaxAir Solenoid and Pilot Valves

- 100% duty cycle
- Uses 22mm coils

Note: 1 connector required for each coil. See page 2549 for 22mm solenoid coils and connectors.

Solenoid Valves—Compact, lightweight aluminum valves have locking or nonlocking override adjustments for simple setup and troubleshooting. Use alone or mount to manifolds (sold separately) when multiple valves are needed in a limited space.

- Max. operating pressure: 115 psi
- Temp. range: 15° to 122°F
- Buna N seals standard

Pilot Valves—Light-duty directional control valves power devices such as cylinders, slides, or gates. Compact, aluminum bar construction.

- Operating pressure range: 45 to 140 psi
- Temp. range: 15° to 122°F


No. 4KA88


No. 4KA92

Pipe Size	CFM	Cv	120 VAC Mfr. Model	120 VAC Item No.	24 VDC Mfr. Model	24 VDC Item No.
3-Way, 2-Position, Solenoid/Spring						
¼"	26	0.7	M252SS-120-A	**4YTG2**	M252SS-024-D	**4YTG3**
⅜"	61	1.65	M253SS-120-A	**4YTG4**	M253SS-024-D	**4YTG5**
½"	150	4.32	M254SS-120-A	**4YTG6**	M254SS-024-D	**4YTG7**

Pipe Size	Actuator/Return	CFM	Cv	120VAC Mfr. Model	120VAC Item No.	24VDC Mfr. Model	24VDC Item No.	No Coil Mfr. Model	No Coil Item No.
4-Way, 2-Position									
¼"	Solenoid/Spring	26	0.7	M212SS-120-A	**4KA88**	M212SS-024-D	**4KA89**	M212SS-000-N	**4KA90**
	Solenoid/Solenoid	26	0.7	M212SD-120-A	**4KA91**	M212SD-024-D	**4KA92**	M212SD-000-N	**4KA93**
⅜"	Solenoid/Spring	61	1.65	M213SS-120-A	**4KA94**	M213SS-024-D	**4KA95**	M213SS-000-N	**4KA96**
	Solenoid/Solenoid	61	1.65	M213SD-120-A	**4KA97**	M213SD-024-D	**4KA98**	M213SD-000-N	**4KA99**
½"	Solenoid/Spring	150	4.32	M214SS-120-A	**4KB10**	M214SS-024-D	**4KB11**	M214SS-000-N	**4KB12**
	Solenoid/Solenoid	150	4.32	M214SD-120-A	**4KB13**	M214SD-024-D	**4KB14**	M214SD-000-N	**4KB15**

No. of Stations	¼" NPT PORT Mfr. Model	¼" NPT PORT Item No.	⅜" NPT PORT Mfr. Model	⅜" NPT PORT Item No.	½" NPT PORT Mfr. Model	½" NPT PORT Item No.
Manifold Kits						
2	M26M02-02	**4KB16**	M30M03-02	**4KB21**	M34M04-02	**4KB26**
4	M26M02-04	**4KB17**	M30M03-04	**4KB22**	M34M04-04	**4KB27**
6	M26M02-06	**4KB18**	M30M03-06	**4KB23**	M34M04-06	**4KB28**
8	M26M02-08	**4KB19**	M30M03-08	**4KB24**	M34M04-08	**4KB29**
10	M26M02-10	**4KB20**	M30M03-10	**4KB25**	M34M04-10	**4KB30**

NPT Port (in.)	CFM	Cv	Mfr. Model	Item No.
3-Way, 2-Position, Pilot Valves, Remote Pilot/Spring				
¼	26	0.7	M252PS	**4YTF1**
⅜	61	1.6	M253PS	**4YTF2**
½	150	4.3	M254PS	**4YTF3**

For Use With	Mfr. Model	Item No.
Manifold Blanking Plates		
Port Sizes ¼" NPT M26 Series Manifolds	M26MB	**4KB35**
Port Sizes ⅜" NPT M30 Series Manifolds	M30MB	**4KB36**
Port Sizes ½" NPT M34 Series Manifolds	M34MB	**4KB37**


No. 2G429


Assembled Valves with End Plate Kit

Compact Stacking Solenoid and Pilot Valves

ARO

- Operating pressure range: 50 to 150 psi
- Temp. range: 0° to 180°F
- Uses 22mm coils

High flow capacity. Bonded and precision ground urethane-to-aluminum spool for wear resistance. Prelubed; can be operated without air line lubrication. Each stack of valves requires a stacking end plate kit No. 2G599, sold separately.

Note: When operating below 50 psi, Low Pressure Kit No. 4HN96 must be used.

Note: 1 connector required for each coil. Coils and connectors sold on page 2549.

Port Size (in.)	Actuator/Return	Coil	Mfr. Model	Item No.	
4-Way, 2-Position, 68 CFM, 1.90 Cv					
¼	Pilot/Spring	—	A222PS	**2F989**	†
	Pilot/Pilot	—	A222PD	**2F987**	†
4-Way, 2-Position, 68 CFM, 1.9 Cv					
¼	Solenoid/Spring	24VDC	A222SS-024-D	**4XT38**	
	Solenoid/Spring	120VAC	A222SS-120-A	**2G429**	
	Solenoid/Spring	—	A222SS-000-N	**2F997**	†
	Solenoid/Solenoid	120VAC	A222SD-120-A	**2F995**	
4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral), 61 CFM, 0.7 Cv					
¼	Solenoid/Solenoid	120VAC	A322SD-120-A	**2G457**	
Accessories for Compact Stacking Power Valves					
Stacking End Plate Kit (1 kit required for each stack of valves)			MKP	**2G599**	
Isolation Plate			PTN	**2G601**	
Short L Mounting Bracket			116808	**2F807**	
Low Pressure Kit			119306	**4HN96**	

† Order coils separately.


No. 4KE12


No. 4KB94

Check and Needle Valves

ARO

- Max. operating pressure: 200 psi
- Operating temp. range: 0° to 200°F

Corrosion-resistant valve bodies are made of lightweight composite material. Threaded for panel mount. Lock rings secure set flow rate. Feature calibrated adjustment knob, 4-stage needle, color-coded micrometer, and zinc-plated pipe port inserts.

Check—Use to check or direct air in 1 direction.

Needle—Increase or decrease airflow in both directions, then set with red lock ring.

Inlet Port	Outlet Port	CFM	Mfr. Model	Item No.
Check Valve				
⅛" NPT	⅛" NPT	18	104104-C01	**4KE10**
¼" NPT	¼" NPT	28	104104-C02	**4KE12**
⅜" NPT	⅜" NPT	58	104104-C03	**4KE14**
½" NPT	½" NPT	90	104104-C04	**4KE16**
Needle Valve				
⅛" NPT	⅛" NPT	18	104104-N01	**4KB92**
¼" NPT	¼" NPT	28	104104-N02	**4KB94**
⅜" NPT	⅜" NPT	58	104104-N03	**4KB96**
½" NPT	½" NPT	90	104104-N04	**4KB98**

ALPHA® ARO®

Compact Body-Ported Solenoid and Pilot Valves

- Operating pressure range: 50 to 150 psi on 2-position valves; 60 to 150 psi on 3-position valves
- Temp. range: 0° to 180°F
- Up to 600 cycles per minute
- Vacuum rated to 29 in./Hg (requires kit No. 4HN96, sold separately on page 2549)
- Uses 22mm coils

Body-ported Alpha® valves are compact 5-ported valves. Can operate without air line lubrication. For use with air or inert gas.

Note: When operating below 50 psi, Low Pressure Kit No. 4HN96, sold on page 2549, must be used.

Note: 1 NEMA 4 connector required for each coil. Coil connectors and replacement coils are sold separately on page 2549.

Actuator/Return	Pilot Pressure	Voltage	CFM	Cv	Mfr. Model	Item No.	
4-Way, 2-Position							
Pilot/Pilot	20 PSI	—	30	0.90	A211PD	**2F955**	
Pilot/Pilot	20 PSI	—	50	1.50	A212PD	**2F971**	
Pilot/Pilot	20 PSI	—	61	1.70	A213PD	**4KB32**	
Pilot/Spring	50 PSI	—	30	0.90	A211PS	**2F957**	
Pilot/Spring	50 PSI	—	50	1.50	A212PS	**2F973**	
Pilot/Spring	50 PSI	—	61	1.70	A213PS	**4KB31**	
Solenoid/Solenoid	—	No Coil	30	0.9	A211SD-000-N	**2F959**	*
Solenoid/Solenoid	—	120VAC	30	0.9	A211SD-120-A	**2F963**	
Solenoid/Solenoid	—	No Coil	50	1.5	A212SD-000-N	**2F975**	*
Solenoid/Solenoid	—	120VAC	50	1.5	A212SD-120-A	**2F979**	
Solenoid/Solenoid	—	120VAC	61	1.7	A213SD-120-A	**2G551**	
Solenoid/Solenoid	—	24VDC	50	1.5	A212SD-024-D	**4XT33**	
Solenoid/Solenoid	—	24VDC	61	1.7	A213SD-024-D	**4XT35**	
Solenoid/Spring	—	No Coil	30	0.9	A211SS-000-N	**2F965**	*
Solenoid/Spring	—	12VDC	30	0.9	A211SS-012-D	**2F967**	
Solenoid/Spring	—	120VAC	30	0.9	A211SS-120-A	**2F969**	
Solenoid/Spring	—	No Coil	50	1.5	A212SS-000-N	**2F981**	*
Solenoid/Spring	—	12VDC	50	1.5	A212SS-012-D	**2F983**	
Solenoid/Spring	—	120VAC	50	1.5	A212SS-120-A	**2F985**	
Solenoid/Spring	—	120VAC	61	1.7	A213SS-120-A	**2G549**	
Solenoid/Spring	—	24VDC	30	0.9	A211SS-024-D	**4XT32**	
Solenoid/Spring	—	24VDC	50	1.5	A212SS-024-D	**4XT34**	
Solenoid/Spring	—	24VDC	61	1.7	A213SS-024-D	**4XT36**	
4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral)							
Solenoid/Solenoid	—	No Coil	50	1.4	A312SD-000-N	**2G447**	*
Solenoid/Solenoid	—	12VDC	50	1.4	A312SD-012-D	**2G449**	
Solenoid/Solenoid	—	120VAC	50	1.4	A312SD-120-A	**2G451**	
Solenoid/Solenoid	—	24VDC	50	1.4	A312SD-024-D	**4XT41**	
4-Way, 3-Position (Spring Centered, Inlet Port Blocked, Cylinder Ports Open in Neutral)							
Solenoid/Solenoid	—	No Coil	50	1.65	A712SD-000-N	**2G465**	*
Solenoid/Solenoid	—	12VDC	50	4.32	A712SD-012-D	**2G467**	
Solenoid/Solenoid	—	120VAC	50	1.4	A712SD-120-A	**2G469**	
Solenoid/Solenoid	—	24VDC	50	1.4	A712SD-024-D	**4XT44**	

**** Order coils separately.***



No. 2F981



No. 2F985

ARO®

2-Hand Anti-Tie-Down Controls



No. 4HN74

- Operating pressure: 50 to 125 psi

Note: These units provide only anti-tie-down logic function and not stroke-limiting devices. On machines with full revolution clutches and/or where repeat cycles can occur, approved safety and/or single-stroke devices must be used along with the anti-tie-down units.

Unassembled—Includes anti-tie-down control block, two 2¼"-dia. push-button valves, 10 ft. of 5⁄32" tubing, and fittings. Order pilot valve No. 2F973, sold on page 2551.

Assembled—Includes all internal connections ready to install. 2¼"-dia. valves. External supply and output to machine made by 5⁄32" (4mm) instant tube fittings. Do not use on any revolutionary press.

Description	Inlet Port	Outlet Port	Mfr. Model	Item No.
Unassembled Control Package	5⁄32" Tubing	5⁄32" Tubing	59003-842	**4HN74**
Assembled Control Package	5⁄32" Tubing	5⁄32" Tubing	59809	**4HN76**
Control Block Only	1⁄8" NPT	1⁄8" NPT	59191	**4HN75**

ARO® SPEEDAIRE®

Exhaust Port Flow Controls and Mufflers



No. 4ZJ85

ARO

- Operating pressure: 0 to 250 psi
- Operating temp. range: -65° to 300°F

Speedaire®—Provide an infinite variation of motoring airflow at an acceptable sound level. 40-micron sintered bronze sleeve with brass housing.

- Max. operating pressure: 300 psi
- Operating temp. range: 35° to 300°F

Pipe Size	Mfr. Model	Item No.
ARO Flow Controls		
1⁄4" NPT	20313-2	**4ZJ85**
3⁄8" NPT	20313-3	**4ZJ86**
1⁄2" NPT	20313-4	**4ZJ87**
Speedaire® Flow Control Mufflers		
1⁄8" NPT	1EJU2	**1EJU2**
1⁄4" NPT	1EJU3	**1EJU3**
3⁄8" NPT	1EJU4	**1EJU4**
1⁄2" NPT	1EJU5	**1EJU5**
3⁄4" NPT	1EJU6	**1EJU6**
1" NPT	1EJU7	**1EJU7**

SPEEDAIRE®

Pneumatic Exhaust Mufflers



No. 1A326

- Max. operating pressure: 300 psi
- Operating temp. range: 35° to 300°F, except No. 1EJX3 has 160°F max. temp.

40-micron porous sintered bronze element.

NPT Port (in.)	Hex (in.)	Item No.
10-32	5⁄16	**1EJX3**
1⁄8	7⁄16	**1A325**
1⁄4	9⁄16	**1A326**
3⁄8	11⁄16	**1A327**
1⁄2	7⁄8	**1A328**
3⁄4	1 1⁄16	**6F600**
1	1 3⁄8	**6F601**

ARO®

Air Line Flow Controls



No. 6ZC08

- Operating temp. range: 0° to 200°F
- Thermoplastic

Glass-reinforced valves provide free flow in 1 direction, controlled flow in opposite direction. Color-coded micrometer and calibrated adjustment knob. Ring lock keeps adjustment from accidentally moving. Panel-mount nut included.

Inlet Port	Outlet Port	Max. Operating Pressure (psi)	Mfr. Model	Item No.
ARO Thermoplastic				
1⁄8" NPT	1⁄8" NPT	200	104104-F01	**6ZC07**
1⁄4" NPT	1⁄4" NPT	200	104104-F02	**6ZC08**
3⁄8" NPT	3⁄8" NPT	200	104104-F03	**6ZC09**
1⁄2" NPT	1⁄2" NPT	200	104104-F04	**6ZC10**



No. 1EJX1

SPEEDAIRE®

Silencer Mufflers

Greatly reduce noise levels on valves and prevent contamination.

Economy—50-mesh, stainless steel screen with glass-filled nylon housing.

Heavy-Duty—50-mesh self-cleaning stainless steel screen with aluminum shell.

NPT Port (in.)	Max. SCFM @ 100 psi	Max. Temp.	Hex (in.)	Item No.
Economy, 150 psi, 50 Microns				
1⁄8 M	20	120	11⁄16	**1EJV9**
1⁄4 M	33	120	11⁄16	**1EJW1**
3⁄8 M	82	120	1 1⁄8	**1EJW2**
1⁄2 M	110	120	1 1⁄8	**1EJW3**
Heavy-Duty, 300 psi, 50 Microns				
1⁄8 M	20	160	5⁄8	**1EJW4**
1⁄4 M	33	160	5⁄8	**1EJW6**
1⁄4 F	33	160	5⁄8	**1EJW7**
3⁄8 M	82	160	1	**1EJW8**
3⁄8 F	82	160	1	**1EJW9**
1⁄2 M	110	160	1	**1EJX1**
1⁄2 F	110	160	1	**1EJX2**



No. 1EJT5

SPEEDAIRE®

Breather Vents

- Max. operating pressure: 150 psi
- Operating temp. range: 35° to 300°F

Low-profile vents insert easily into cylinders, gear boxes, and storage tanks. Prevent dirt and particles from entering open ports.

NPT Port (in.)	Hex (in.)	Item No.
1⁄8	7⁄16	**1EJT5**
1⁄4	9⁄16	**1EJT6**
3⁄8	11⁄16	**1EJT7**
1⁄2	7⁄8	**1EJT8**
3⁄4	1 1⁄16	**1EJT9**
1	1 3⁄8	**1EJU1**



No. 2F859



No. 2CDP9

ARO®
Cylinder Port Flow Control Valves

- Max. operating pressure: 150 psi

Screwdriver Adjustment—Right-angle flow control valves mount directly into cylinder port. Rugged, all-metal design. Dry thread sealant on male threads. Full 360° rotation for tubing alignment.

Thumb Screw Adjustment—Can be plumbed with threaded fitting; use push-to-connect tubing for fast installation.

Outlet Port	Inlet Port	Cv	Mfr. Model	Item No.
Screwdriver Adjustment				
1/8" NPT	1/8" NPT	0.3	119307-125	**2F849**
	1/4" Push to Connect	0.3	119309-125	**2F859**
1/4" NPT	1/4" NPT	0.7	119307-250	**2F851**
	1/4" Push to Connect	0.7	119309-250	**2F861**
3/8" NPT	3/8" NPT	1.9	119307-375	**2F853**
	3/8" Push to Connect	1.9	119309-375	**2F863**
1/2" NPT	1/2" NPT	2.8	119307-500	**2F855**
10-32 UNF	10-32 UNF	0.1	119307-103	**2F847**
	5/32" Push to Connect	0.1	119309-103	**2F857**
Thumb Screw Adjustment				
1/8" NPT	1/8" NPT	0.3	119308-125	**2CDP5**
	1/4" Push to Connect	0.3	119310-125	**2CDP9**
1/4" NPT	1/4" NPT	0.7	119308-250	**2CDP6**
	1/4" Push to Connect	0.7	119310-250	**2CDR1**
	3/8" Push to Connect	1.9	119310-255	**2CDR2**
3/8" NPT	3/8" NPT	1.9	119308-375	**2CDP7**
	3/8" Push to Connect	1.9	119310-375	**2CDR3**
1/2" NPT	1/2" NPT	2.8	119308-500	**2CDP8**

SMC

Speed, Flow, and In-Line Control Valves with Adjustable 1-Touch Fittings

- Pressure range: 15 to 145 psi
- Temp. range: 23° to 140°F
- Polybutylene body

Preapplied sealant and top-mounted hex nut/adjustment screw allows fast assembly and easy adjustment with a flat screwdriver. Use with nylon, soft nylon, and polyurethane tubing. Stainless steel models have a stainless steel stem, and can be used in washdown and clean-room applications. In-line valves include a hexagonal lock nut and retainer that prevents accidental needle loss. Elbows feature metered, 1-direction flow control.



Tube Size	Body Size	Nickel-Plated Brass Item No.
In-Line Speed Control Valves, Tube		
1/4"	1/8"	**4DGV2**
1/4"	1/4"	**4DGV3**
1/4"	3/8"	**4DGV5**
5/16"	1/4"	**4DGV4**
5/16"	3/8"	**4DGV6**
3/8"	3/8"	**4DGV7**
3/8"	1/2"	**4DGV8**
1/2"	1/2"	**4DGV9**
4mm	1/8"	**4DGW1**
6mm	1/8"	**4DGW2**
6mm	1/4"	**4DGW3**
6mm	3/8"	**4DGW5**
8mm	1/4"	**4DGW4**
8mm	3/8"	**4DGW6**
10mm	3/8"	**4DGW7**
10mm	1/2"	**4DGW9**
12mm	3/8"	**4DGW8**
12mm	—	**4DGX1**



Tube Size	Pipe Size	Screw Adjustment, Tamper-Proof, Nickel-Plated Brass, Flow In Item No.	Screw Adjustment, Tamper-Proof, Nickel-Plated Brass, Flow Out Item No.
Flow Control Valves, Tube x NPT			
1/8"	1/8"	**5RTP5**	**5RTJ7**
1/8"	10-32 UNF	**5RTP1**	**5RTJ3**
5/32"	1/8"	**5RTP6**	**5RTJ8**
5/32"	1/4"	**5RTR0**	**5RTK2**
5/32"	10-32 UNF	**5RTP2**	**5RTJ4**
3/16"	1/8"	**5RTP7**	**5RTJ9**
3/16"	1/4"	**5RTR1**	**5RTK3**
3/16"	10-32 UNF	**5RTP3**	**5RTJ5**
1/4"	1/8"	**5RTP8**	**5RTK0**
1/4"	1/4"	**5RTR2**	**5RTK4**
1/4"	3/8"	**5RTR5**	**5RTK7**
1/4"	10-32 UNF	**5RTP4**	**5RTJ6**
5/16"	1/8"	**5RTP9**	**5RTK1**
5/16"	1/4"	**5RTR3**	**5RTK5**
5/16"	3/8"	**5RTR6**	**5RTK8**
3/8"	1/4"	**5RTR4**	**5RTK6**
3/8"	1/2"	**5RTR8**	**5RTL0**
3/8"	3/8"	**5RTR7**	**5RTK9**
1/2"	1/2"	**5RTR9**	**5RTL1**
Flow Control Valves, Tube x R(PT)			
3.2mm	1/8"	**5RTT3**	**5RTL5**
3.2mm	M5 x 0.8	**5RTT0**	**5RTL2**
4mm	1/8"	**5RTT4**	**5RTL6**
4mm	1/4"	**5RTT8**	**5RTN0**
4mm	M5 x 0.8	**5RTT1**	**5RTL3**
6mm	1/8"	**5RTT5**	**5RTL7**
6mm	1/4"	**5RTT9**	**5RTN1**
6mm	3/8"	**5RTU3**	**5RTN5**
6mm	M5 x 0.8	**5RTT2**	**5RTL4**
8mm	1/8"	**5RTT6**	**5RTL8**
8mm	1/4"	**5RTU0**	**5RTN2**
8mm	3/8"	**5RTU4**	**5RTN6**
10mm	1/8"	**5RTT7**	**5RTL9**
10mm	1/4"	**5RTU1**	**5RTN3**
10mm	3/8"	**5RTU5**	**5RTN7**
10mm	1/2"	**5RTU7**	**5RTN9**
12mm	1/4"	**5RTU2**	**5RTN4**
12mm	3/8"	**5RTU6**	**5RTN8**
12mm	1/2"	**5RTU8**	**5RTP0**



Tube Size	Pipe Size	Body Size	Nickel-Plated Brass, Elbows, Flow In Item No.	Nickel-Plated Brass, Elbows, Flow Out Item No.	Stainless Steel, Elbows, Flow In Item No.	Stainless Steel, Elbows, Flow Out Item No.
Speed Control Valves, Tube x NPT						
1/8"	1/8"	1/8"	**48J181**	**48J209**	**4DGX7**	**4DGX2**
5/32"	1/8"	1/8"	**48J182**	**48J210**	**4DGX8**	**4DGX3**
	1/4"	1/4"	**48J185**	**48J213**	—	**4DHC4**
3/16"	1/8"	1/8"	**4DGJ4**	**4DGP4**	—	**4DGX4**
	1/4"	1/4"	**4DGJ8**	**4DGP8**	—	—
1/4"	1/8"	1/8"	**48J183**	**48J211**	**4DGY1**	**4DGX5**
	1/4"	3/8"	**4DGK3**	**4DGR3**	**4DHD6**	**4DHC9**
	1/4"	1/4"	**48J186**	**48J214**	**4DGY5**	**4DHC6**
	3/8"	3/8"	**48J189**	**48J219**	**4DGY8**	**4DHD5**
	1/8"	1/8"	**48J184**	**48J212**	**4DGY2**	**4DGX6**
5/16"	1/4"	3/8"	**4DGK4**	**4DGR4**	**4DHD7**	—
	1/4"	1/4"	**48J187**	**48J215**	—	**4DHC7**
	3/8"	3/8"	**48J190**	**48J217**	**4DGY9**	**4DHD3**
3/8"	1/4"	3/8"	**4DGK5**	**4DGR5**	—	—
	1/4"	1/4"	**48J188**	**48J216**	**4DGY7**	**4DHC8**
	3/8"	3/8"	**48J191**	**48J218**	**4DGZ1**	**4DHD4**
	1/2"	1/2"	**48J192**	**48J220**	**4DGZ2**	**4DHD9**
1/2"	1/2"	1/2"	**48J193**	**48J221**	**4DGZ3**	**4DHE1**
Speed Control Valves, Tube x R(PT)						
4mm	1/8"	1/8"	**48J194**	**48J222**	—	—
	1/4"	1/4"	**48J198**	**48J226**	—	—
6mm	1/8"	1/8"	**48J195**	**48J223**	**4DGZ5**	**4DHE3**
	1/4"	3/8"	**4DGN1**	**4DGU1**	**4DHA3**	**4DHF1**
	1/4"	1/4"	**48J199**	—	—	—
	3/8"	3/8"	**48J203**	—	—	**4DHF5**
8mm	1/8"	1/8"	**48J196**	**48J224**	—	—
	1/4"	3/8"	**4DGN2**	—	—	**4DHF2**
	1/4"	1/4"	**48J201**	**48J228**	—	—
	3/8"	3/8"	**48J204**	**48J231**	—	**4DHF6**
10mm	1/8"	1/8"	**48J197**	**48J225**	—	—
	1/4"	3/8"	**4DGN3**	**4DGU3**	—	**4DHF3**
	1/4"	1/4"	**48J202**	**48J229**	**4DHA2**	—
	3/8"	3/8"	**48J205**	**48J232**	—	**4DHF7**
	1/2"	1/2"	**48J207**	**48J234**	—	**4DHF9**
	1/4"	3/8"	**4DGN4**	**4DGU4**	—	**4DHF4**
12mm	3/8"	3/8"	**48J206**	**48J233**	—	**4DHF8**
	1/2"	1/2"	**48J208**	**48J235**	—	**4DHG1**


No. 5RTU9


No. 5RTV1

SMC

Speed Exhaust Control Valves with 1-Touch Fittings

- Pressure range: 15 to 145 psi
- Temp. range: 23° to 140°F

Integrated quick exhaust valve and exhaust restrictor allow for high-speed cylinder operation. Design helps to remove moisture build-up at the actuator port. Nickel-plated brass construction.

Tube Size	Pipe Size	Item No.
5/32"	10-32 UNF	**5RTU9**
1/4"	10-32 UNF	**5RTV0**
1/4"	1/8"	**5RTV1**
1/4"	1/4"	**5RTV3**
5/16"	1/8"	**5RTV2**
5/16"	1/4"	**5UPD5**
5/16"	3/8"	**5UPD8**
3/8"	1/8"	**5UPD6**
3/8"	1/4"	**5UPD7**
3/8"	3/8"	**5UPD9**
3/8"	1/2"	**5UPE2**
1/2"	1/4"	**5UPE0**
1/2"	3/8"	**5UPE1**
1/2"	1/2"	**5UPE3**

Tube Size	Pipe Size	Item No.
4mm	M3 x 0.5	**5UPE4**
4mm	M5 x 0.8	**5UPE5**
6mm	M5 x 0.8	**5UPE6**
6mm	1/8"	**5UPE7**
6mm	1/4"	**5UPE9**
8mm	1/8"	**5UPE8**
8mm	1/4"	**5UPF0**
8mm	3/8"	**5UPF3**
10mm	1/8"	**5UPF1**
10mm	1/4"	**5UPF2**
10mm	3/8"	**5UPF4**
10mm	1/2"	**5UPF7**
12mm	1/4"	**5UPF5**
12mm	3/8"	**5UPF6**
12mm	1/2"	**5UPF8**

legris

Function Fittings

- Metric valves have BSPP threads

Compact push-to-connect flow valves help ensure excellent performance of flow and are perfectly suited for reduced spaces. Nylon and nickel-plated brass construction, except where noted. Polypropylene push button and Buna nitrile elastomer seals for leak-free connections. For use with polyurethane, polyethylene, or PTFE tubing.

FLOW CONTROLS

Compact
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Adjustment screw controls airflow, while locking nut protects the flow setting from being changed due to tampering or vibration.

Swivel
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Allow access to vertical or angled tubing in restrictive installations.

In-Line
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Unidirectional airflow allows air to flow freely in through the flow control; metered out through the adjustment screw.

Miniature
- Pressure range: 14.5 to 145 psi
- Temp. range: 30° to 158°F

Specially designed for use with small-bore cylinders in very small pneumatic applications.

LOCKOUT VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: -4° to 160°F

Mount on a cylinder to cut off both supply and exhaust. Designed for maximum flow capacity in the open position. Brass material.

MINI BALL VALVES
- Max. range: 145 psi
- Temp. range: -4° to 176°F

Enable in-line pneumatic circuit opening and closing.

PILOTED NONRETURN VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: 23° to 140°F

Help protect equipment by blocking cylinder movement in a vertical or horizontal position. Valves allow the cylinder to stop in mid-stroke.

PNEUMATIC THRESHOLD SENSORS
- Pressure range: 43.5 to 116 psi
- Back pressure: 0.85 psi to 1 Bar
- Temp. range: 5° to 140°F

Detect the absence of pressure and translate it to a pneumatic output which emits a signal to pilot the next step. Sensors are compact and can be mounted on a cylinder or control valve on any pneumatic equipment to control the operation of the cylinder.

METER IN CHECK VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Valves are compact, lightweight, and allow air to pass in 1 direction while blocking air flow in the other. 7 psi will overcome the spring pressure.

QUICK EXHAUST VALVES
- Pressure range: 10 to 150 psi
- Temp. range: 0° to 160°F

Help increase system efficiency and the cylinder speed by purging cylinder exhaust air at the cylinder port instead of at the control valve.

Looking for High-Pressure Fittings and Couplers
For more Pneumatic Tubing, see page 2618. Additional tubing products are available on **Grainger.com®**.



	Tube Size	Pipe Size	Item No.
Flow Controls, Compact, Meter Out			
BSPP x Tube	4mm	1/8"	1PFX1
	6mm	1/8"	1PFX2
	6mm	1/4"	1PFX3
	8mm	1/8"	1PFX4
	8mm	1/4"	1PFX5
	10mm	1/4"	1PFX6
	10mm	3/8"	1PFX7
BSPT x Tube	6mm	1/8"	19G982
	8mm	1/8"	19G983
	8mm	1/4"	19G984
	10mm	1/4"	19G985
	10mm	3/8"	19G986
	10mm	1/2"	19G987
	12mm	1/4"	19G988
	12mm	3/8"	19G989
	12mm	1/2"	19G990
MNPT x Tube	5/32"	1/8"	1PFX8
	5/32"	1/4"	1PFX9
	1/4"	1/8"	1PFY1
	1/4"	1/4"	1PFY2
	3/8"	1/4"	1PFY3
	3/8"	3/8"	1PFY4
Flow Controls, Compact, Knobless, Meter Out			
BSPP x Tube	4mm	1/8"	1DFB4
	6mm	1/8"	1DFB7
	6mm	1/4"	1DFB8
	8mm	1/8"	1DFC1
	8mm	1/4"	1DFC2
	8mm	3/8"	1DFN1
	10mm	1/4"	1DFN2
	10mm	3/8"	1DFN3
	10mm	1/2"	1DFN4
	12mm	3/8"	1DFN5
	12mm	1/2"	1DFN6
Metric Threads x Tube	4mm	M5	1DFB5
	6mm	M5	1DFB9
MNPT x Tube	1/8"	1/8"	1DDW9
	5/32"	1/8"	1DDW6
	1/4"	1/8"	1DDX1
	1/4"	1/4"	1DDX2
	5/16"	1/8"	1DDW7
	5/16"	1/4"	1DDW8
	3/8"	1/4"	1DDX3
	3/8"	3/8"	1DDX4
Tube x UNF	1/8"	10-32	1DDW4
	5/32"	10-32	1DFB6
	1/4"	10-32	1DDW5
Flow Controls, Swivel, Meter Out			
BSPP x Tube	6mm	1/8"	1DFN7
	6mm	1/4"	1DFN8
	8mm	1/8"	1DFN9
	8mm	1/4"	1DFP1
	8mm	3/8"	1DFP2
	10mm	1/4"	1DFP3
	12mm	3/8"	1DFP5
MNPT x Tube	1/4"	1/8"	1DDX5
	1/4"	1/4"	1DDX6
	3/8"	1/4"	1DDX7
	3/8"	3/8"	1DDX8
Flow Controls, In-Line, One Way			
Tube	5/32"	—	1PFZ7
	1/4"	—	1PFZ8
	3/8"	—	1PFZ9
	1/2"	—	1PGB1
	6mm	—	1DFP7
	8mm	—	1DFP8
	10mm	—	1DFP9
	12mm	—	1DFR1

	Tube Size	Pipe Size	Item No.
Flow Controls, Miniature, Control Flow Meter Out			
BSPP x Tube	6mm	1/8"	1PFY7
	8mm	1/4"	1PFY9
	8mm	3/8"	1PFZ1
BSPT x Tube	4mm	1/8"	19G991
	6mm	1/8"	19G992
	6mm	1/4"	19G993
	6mm	3/8"	19G994
	8mm	1/8"	19G995
	8mm	1/4"	19G996
	8mm	3/8"	19G997
MNPT x Tube	1/8"	1/8"	1PFZ4
	5/32"	1/8"	1PFZ3
	1/4"	1/8"	1PFZ5
	1/4"	1/4"	1PFZ6
	4mm	M5 x 0.8	1PFY5
	6mm	M5 x 0.8	1PFY8
Tube x UNF	1/4"	10-32	1PFZ2
	4mm	10-32	1PFY6
Lockout Valves			
BSPP x Tube	8mm	1/4"	1DFL5
	10mm	3/8"	1DFL7
NPT	—	1/8"	19G998
	—	1/4"	19G999
	—	1/2"	19H002
NPT x Tube	1/4"	1/8"	1DDY8
	1/4"	1/4"	1DDY9
	3/8"	3/8"	1DDZ1
	1/2"	1/2"	1DDZ2
Mini Ball Valve - Inline			
Tube	3/8"	—	1PGB2
Mini Ball Valves With Vent			
MNPT x Tube	1/4"	1/8"	1PGB5
	1/4"	1/4"	1PGB6
	3/8"	1/4"	1PGB7
Mini Ball Valves With Vent - Inline			
Tube	1/4"	—	1PGB3
	3/8"	—	1PGB4
Piloted Non Return Valves			
BSPP x Tube	6mm	1/4"	19H024
	8mm	1/8"	19H025
	8mm	3/8"	19H027
	10mm	3/8"	19H028
	10mm	1/2"	19H029
	12mm	1/2"	19H030
Piloted Non Return Valves with Flow Regulator			
BSPP x Tube	6mm	1/8"	19H031
	6mm	1/4"	19H032
	8mm	3/8"	19H035
	10mm	3/8"	19H036
	10mm	1/2"	19H037
	12mm	1/2"	19H038
Pneumatic Threshold Sensors			
NPT x Tube	5/32" or 4mm	1/8"	19H011
	5/32" or 4mm	1/4"	19H012
	5/32" or 4mm	3/8"	19H013
	5/32" or 4mm	1/2"	19H014

	Pipe Size	Connection	Item No.
Quick Exhaust Valves			
	1/8"	NPT x Tube	19H015
	1/4"	NPT x Tube	19H016
	3/8"	NPT x Tube	19H017
	1/2"	NPT x Tube	19H018

Brass and Polybutylene 1-Touch Fittings

- Operating pressure range: -15 (vacuum) to 145 psi
- Temp. range: 23° to 140°F

Low disconnecting force helps prevent collet and chuck from biting into and damaging tubing. Polybutylene/brass body and threaded portion can turn independently of one another for use in confined spaces. Use with polyurethane, polyolefin, nylon, and PTFE tubing. Can be used for positive air pressure as well as vacuum for actuators, air preparation, and directional control valves.

Tube x UNF

Bulkhead Union Elbow, 90°



Tube Size	Item No.
1/8"	36W658
5/32"	36W659
3/16"	36W661
5/16"	36W665
3/8"	36W667

Tube x Tube

Bulkhead Union



Tube Size	Item No.
1/8"	36W954
5/32"	36W955
3/16"	36W957
1/4"	36W959
5/16"	36W961
3/8"	36W963
1/2"	36W965
4mm	36W956
6mm	36W958
8mm	36W960
10mm	36W962
12mm	36W964

Bulkhead Union Elbow, 90°



Tube Size	Item No.
1/4"	36W663
1/2"	36W669
4mm	36W660
6mm	36W662
8mm	36W664
10mm	36W666
12mm	36W668

Straight Union



Tube Size	Item No.
1/8"	36W966
5/32"	36W990
3/16"	36X004
1/4"	36X019
5/16"	36X035
3/8"	36X050
1/2"	36X064
4mm	36W997
6mm	36X012
8mm	36X030
10mm	36X044
12mm	36X059

Union Elbow, 90°



Tube Size	Item No.
1/8"	36X071
5/32"	36X080
3/16"	36X093
1/4"	36X110
5/16"	36X127
3/8"	36W634
1/2"	36W650
4mm	36X087
6mm	36X103
8mm	36X122
10mm	36X137
12mm	36W644

Union Tee*



Tube Size	Item No.
1/8"	36W731
5/32"	36W738
3/16"	36W750
1/4"	36W764
5/16"	36W780
3/8"	36W796
1/2"	36W812
4mm	36W744
6mm	36W756
8mm	36W774
10mm	36W789
12mm	36W806

Y Union



Tube Size	Item No.
1/8"	36W819
5/32"	36W825
3/16"	36W837
1/4"	36W852
5/16"	36W868
3/8"	36W884
4mm	36W830
6mm	36W844
8mm	36W862
10mm	36W878
12mm	36W892

Tube Caps

Tube Cap



Tube Size	Item No.
5/32"	36W945
1/4"	36W948
5/16"	36W950
3/8"	36W952
4mm	36W946
6mm	36W947
8mm	36W949
10mm	36W951
12mm	36W953

Plug-In x Tube

Plug-In Elbow, 90°



Tube Size	Item No.
3/8"	36W643
1/2"	36W657
10mm	36W633
12mm	36W649

Tube x UNF

Hex Socket Head Male Adapter



Tube Size	Pipe Size	Item No.
1/8"	10-32	36W694
5/32"	10-32	36W695
1/4"	10-32	36W707

Male Adapter



Tube Size	Pipe Size	Item No.
1/8"	10-32	36W985
5/32"	10-32	36W993
3/16"	10-32	36X008
1/4"	10-32	36X025

Male Branch Tee*



Tube Size	Pipe Size	Item No.
1/8"	10-32	36W734
5/32"	10-32	36W740
1/4"	10-32	36W770

Male Elbow, 45°



Tube Size	Pipe Size	Item No.
1/8"	10-32	36X244
5/32"	10-32	36X246
1/4"	10-32	36X249

Male Elbow, 90°



Tube Size	Pipe Size	Item No.
1/8"	10-32	36X074
5/32"	10-32	36X082
3/16"	10-32	36X098
1/4"	10-32	36X116

Tube x Rc(PT)

Extended Male Elbow, 90°



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X226
6mm	M5 x 0.8	36X229

Female Elbow, 90°



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X188
4mm	M6 x 1	36X189
6mm	M6 x 1	36X192

Tube x R(PT)

Female Elbow, 90°



Tube Size	Pipe Size	Item No.
6mm	M5 x 0.8	36X191

Hex Socket Head Male Adapter



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W698
4mm	M6 x 1	36W699
6mm	M5 x 0.8	36W705
6mm	M6 x 1	36W706

Male Adapter



Tube Size	Pipe Size	Item No.
3/16"	M5 x 0.8	36X011
1/4"	M5 x 0.8	36X029
4mm	M5 x 0.8	36X002
4mm	M6 x 1	36X003
6mm	M5 x 0.8	36X017
6mm	M6 x 1	36X018

Male Branch Tee*



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W748
4mm	M6 x 1	36W749
6mm	M5 x 0.8	36W762
6mm	M6 x 1	36W763

Male Elbow, 45°



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X263
4mm	M6 x 1	36X264
6mm	M5 x 0.8	36X267
6mm	M6 x 1	36X268

Male Elbow, 90°



Tube Size	Pipe Size	Item No.
1/8"	M5 x 0.8	36X079
1/4"	M5 x 0.8	36X121
4mm	M5 x 0.8	36X091
4mm	M6 x 1	36X092
6mm	M5 x 0.8	36X108
6mm	M6 x 1	36X109

Male Run Tee*



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W914
4mm	M6 x 1	36W915
6mm	M5 x 0.8	36W923
6mm	M6 x 1	36W924

Y Branch



Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W835
4mm	M6 x 1	36W836
6mm	M5 x 0.8	36W850
6mm	M6 x 1	36W851

Tube x MNPT x Tube

Male Branch Tee*



Tube Size	Pipe Size	Item No.
1/8"	1/16"	36W735
1/8"	1/4"	36W737

Tube x MNPT

Extended Male Elbow, 90°



Tube Size	Pipe Size	Item No.
1/8"	1/8"	36X205
1/8"	1/4"	36X206
5/32"	1/8"	36X207
5/32"	1/4"	36X208
3/16"	1/8"	36X209
3/16"	1/4"	36X210
1/4"	1/8"	36X211
1/4"	1/4"	36X212
1/4"	3/8"	36X213
5/16"	1/8"	36X214
5/16"	1/4"	36X215
5/16"	3/8"	36X216
3/8"	1/4"	36X217
3/8"	3/8"	36X218
3/8"	1/2"	36X219
1/2"	1/4"	36X220
1/2"	3/8"	36X221
1/2"	1/2"	36X222

Hex Socket Head Male Adapter



Tube Size	Pipe Size	Item No.
5/32"	1/8"	36W696
3/16"	1/8"	36W701
1/4"	1/8"	36W708
1/4"	3/8"	36W710
5/16"	1/8"	36W714
5/16"	1/4"	36W715
5/16"	3/8"	36W716
3/8"	1/8"	36W721
3/8"	1/4"	36W722
3/8"	3/8"	36W723
3/8"	1/2"	36W724
1/2"	1/4"	36W728
1/2"	3/8"	36W729
1/2"	1/2"	36W730

Male Adapter



Tube Size	Pipe Size	Item No.
1/8"	1/16"	36W986
1/8"	1/8"	36W987
1/8"	1/4"	36W988
5/32"	1/16"	36W994
5/32"	1/8"	36W995
5/32"	1/4"	36W996
3/16"	1/8"	36X009
3/16"	1/4"	36X010
1/4"	1/8"	36X026
1/4"	1/4"	36X027
1/4"	3/8"	36X028
5/16"	1/4"	36X042
5/16"	3/8"	36X043
3/8"	1/8"	36X055
3/8"	1/4"	36X056
3/8"	3/8"	36X057
3/8"	1/2"	36X058
1/2"	1/4"	36X068
1/2"	3/8"	36X069
1/2"	1/2"	36X070

Male Branch Tee*



Tube Size	Pipe Size	Item No.
1/8"	1/8"	36W736
5/32"	1/16"	36W741
5/32"	1/8"	36W742
5/32"	1/4"	36W743
3/16"	1/8"	36W754
3/16"	1/4"	36W755
1/4"	1/8"	36W771
1/4"	1/4"	36W772
1/4"	3/8"	36W773
5/16"	1/8"	36W786
5/16"	1/4"	36W787
5/16"	3/8"	36W788
3/8"	1/8"	36W802
3/8"	1/4"	36W803
3/8"	3/8"	36W804
3/8"	1/2"	36W805
1/2"	1/4"	36W816
1/2"	3/8"	36W817
1/2"	1/2"	36W818

Male Elbow, 45°



Tube Size	Pipe Size	Item No.
1/8"	1/8"	36X245
5/32"	1/8"	36X247
3/16"	1/8"	36X248
1/4"	1/8"	36X250
1/4"	1/4"	36X251
1/4"	3/8"	36X252
5/16"	1/8"	36X253
5/16"	1/4"	36X254
5/16"	3/8"	36X255
3/8"	1/8"	36X256
3/8"	1/4"	36X257
3/8"	3/8"	36X258
3/8"	1/2"	36X259
1/2"	1/4"	36X260
1/2"	3/8"	36X261
1/2"	1/2"	36X262

Male Elbow, 90°



Tube Size	Pipe Size	Item No.
1/8"	1/16"	36X075
1/8"	1/8"	36X076
1/8"	1/4"	36X077
5/32"	1/16"	36X083
5/32"	1/8"	36X084
5/32"	1/4"	36X085
3/16"	1/8"	36X099
3/16"	1/4"	36X101
1/4"	1/4"	36X118
1/4"	3/8"	36X119
5/16"	1/8"	36X133
5/16"	1/4"	36X134
5/16"	3/8"	36X135
3/8"	3/8"	36W641
1/4"	1/8"	36X117

Male Run Tee*



Tube Size	Pipe Size	Item No.
1/8"	1/16"	36W906
1/8"	1/8"	36W907
1/8"	1/4"	36W908
5/32"	1/16"	36W909
5/32"	1/8"	36W910
5/32"	1/4"	36W911
3/16"	1/4"	36W919
1/4"	1/8"	36W928
1/4"	1/4"	36W929
1/4"	3/8"	36W930
5/16"	1/8"	36W937
5/16"	1/4"	36W938
5/16"	3/8"	36W939
3/8"	1/4"	36W973
3/8"	3/8"	36W974
3/8"	1/2"	36W975
1/2"	1/4"	36W982
1/2"	3/8"	36W983
1/2"	1/2"	36W984

Pneumatic Straight Threaded-to-Tube Adapter



Tube Size	Pipe Size	Item No.
1/4"	1/4"	36W709

Union Elbow, 90°



Tube Size	Pipe Size	Item No.
3/8"	1/8"	36W639
3/8"	1/4"	36W640
3/8"	1/2"	36W642
1/2"	1/4"	36W654
1/2"	3/8"	36W655
1/2"	1/2"	36W656

Y Branch



Tube Size	Pipe Size	Item No.
1/8"	1/8"	36W822
1/8"	1/4"	36W823
5/32"	1/8"	36W827
5/32"	1/4"	36W828
3/16"	1/8"	36W841
3/16"	1/4"	36W842
1/4"	1/8"	36W858
1/4"	1/4"	36W859
1/4"	3/8"	36W860
5/16"	1/8"	36W874
5/16"	1/4"	36W875
5/16"	3/8"	36W876
3/8"	1/4"	36W889
3/8"	3/8"	36W890
3/8"	1/2"	36W891
1/2"	1/4"	36W902
1/2"	3/8"	36W903
1/2"	1/2"	36W904

Tube x Male BSPT

Extended Male Elbow, 90°



Tube Size	Pipe Size	Item No.
3.2mm	1/8"	36X224
3.2mm	1/4"	36X225
4mm	1/8"	36X227
4mm	1/4"	36X228
6mm	1/8"	36X230
6mm	1/4"	36X231
6mm	3/8"	36X232
8mm	1/8"	36X233
8mm	1/4"	36X234
8mm	3/8"	36X235
10mm	1/4"	36X236
10mm	3/8"	36X237
10mm	1/2"	36X238
12mm	1/4"	36X239
12mm	3/8"	36X240
12mm	1/2"	36X241
16mm	3/8"	36X242
16mm	1/2"	36X243

Hex Socket Head Male Adapter



Tube Size	Pipe Size	Item No.
4mm	1/8"	36W697
6mm	1/8"	36W702
6mm	1/8"	36W703
6mm	1/4"	36W704
8mm	1/8"	36W711
8mm	1/4"	36W712
8mm	3/8"	36W713
10mm	1/8"	36W717
10mm	1/4"	36W718
10mm	3/8"	36W719
10mm	1/2"	36W720
12mm	1/4"	36W725
12mm	3/8"	36W726
12mm	1/2"	36W727

Male Adapter



Tube Size	Pipe Size	Item No.
1/8"	1/8"	36W967
1/8"	1/4"	36W968
3/16"	1/8"	36X005
3/16"	1/4"	36X006
1/4"	1/8"	36X020
1/4"	1/4"	36X021
1/4"	3/8"	36X022
5/16"	1/8"	36X036
5/16"	1/4"	36X037
5/16"	3/8"	36X038
3/8"	1/4"	36X051
3/8"	3/8"	36X052
3/8"	1/2"	36X053
1/2"	1/4"	36X065
1/2"	3/8"	36X066
1/2"	1/2"	36X067

Male Adapter



Tube Size	Pipe Size	Item No.
4mm	1/8"	36W998
4mm	1/4"	36W999
6mm	1/8"	36X013
6mm	1/4"	36X014
6mm	3/8"	36X015
8mm	1/8"	36X031
8mm	1/4"	36X032
8mm	3/8"	36X033
10mm	1/8"	36X045
10mm	1/4"	36X046
10mm	3/8"	36X047
10mm	1/2"	36X048
12mm	1/4"	36X060
12mm	3/8"	36X061
12mm	1/2"	36X062

** Tees read: run x run x outlet.*

CONTINUED

CONTINUED

SMC

Brass and Polybutylene 1-Touch Fittings

Tube Size	Pipe Size	Item No.
Tube x Male BSPT (Cont.)		
Male Branch Tee*		
3/16"	1/8"	36W751
3/16"	1/4"	36W752
1/4"	1/8"	36W765
1/4"	1/4"	36W766
1/4"	3/8"	36W767
5/16"	1/8"	36W781
5/16"	1/4"	36W782
5/16"	3/8"	36W783
3/8"	1/4"	36W797
3/8"	3/8"	36W798
3/8"	1/2"	36W799
1/2"	1/4"	36W813
1/2"	3/8"	36W814
1/2"	1/2"	36W815
Male Branch Tee*		
4mm	1/8"	36W745
4mm	1/4"	36W746
6mm	1/8"	36W757
6mm	1/4"	36W758
6mm	3/8"	36W759
8mm	1/8"	36W775
8mm	1/4"	36W776
8mm	3/8"	36W777
10mm	1/8"	36W790
10mm	1/4"	36W791
10mm	3/8"	36W792
10mm	1/2"	36W793
12mm	1/4"	36W807
12mm	3/8"	36W808
12mm	1/2"	36W809
Male Elbow, 45°		
4mm	1/8"	36X265
4mm	1/4"	36X266
6mm	1/8"	36X269
6mm	1/4"	36X270
6mm	3/8"	36X271
8mm	1/8"	36X272
8mm	1/4"	36X273
8mm	3/8"	36X274
10mm	1/8"	36X275
10mm	1/4"	36X276
10mm	3/8"	36X277
10mm	1/2"	36X278
12mm	1/4"	36X279
12mm	3/8"	36X280
12mm	1/2"	36X281
16mm	3/8"	36X282
16mm	1/2"	36X283

Tube Size	Pipe Size	Item No.
Male Elbow, 90°		
3/16"	1/8"	36X094
3/16"	1/4"	36X095
1/4"	1/8"	36X111
1/4"	1/4"	36X112
1/4"	3/8"	36X113
5/16"	1/8"	36X128
5/16"	1/4"	36X129
5/16"	3/8"	36X130
4mm	1/8"	36X088
4mm	1/4"	36X089
6mm	1/8"	36X104
6mm	1/4"	36X105
6mm	3/8"	36X106
8mm	1/8"	36X123
8mm	1/4"	36X124
8mm	3/8"	36X125
10mm	1/8"	36X138
10mm	1/4"	36X139
Male Run Tee*		
3/16"	1/8"	36W916
3/16"	1/4"	36W917
1/4"	1/8"	36W925
1/4"	1/4"	36W926
1/4"	3/8"	36W927
5/16"	1/8"	36W934
5/16"	1/4"	36W935
5/16"	3/8"	36W936
3/8"	1/4"	36W944
3/8"	3/8"	36W971
3/8"	1/2"	36W972
1/2"	1/4"	36W979
1/2"	3/8"	36W980
1/2"	1/2"	36W981
Male Run Tee*		
4mm	1/8"	36W912
4mm	1/4"	36W913
6mm	1/8"	36W920
6mm	1/4"	36W921
6mm	3/8"	36W922
8mm	1/8"	36W931
8mm	1/4"	36W932
8mm	3/8"	36W933
10mm	1/8"	36W940
10mm	1/4"	36W941
10mm	3/8"	36W942
10mm	1/2"	36W943
12mm	1/4"	36W976
12mm	3/8"	36W977
12mm	1/2"	36W978

Tube Size	Pipe Size	Item No.
Union Elbow, 90°		
3/8"	1/4"	36W635
3/8"	3/8"	36W636
3/8"	1/2"	36W637
1/2"	1/4"	36W651
1/2"	3/8"	36W652
1/2"	1/2"	36W653
10mm	3/8"	36W631
10mm	1/2"	36W632
12mm	1/4"	36W645
12mm	3/8"	36W646
12mm	1/2"	36W647
Y Branch		
3/16"	1/8"	36W838
3/16"	1/4"	36W839
1/4"	1/8"	36W853
1/4"	1/4"	36W854
1/4"	3/8"	36W855
5/16"	1/8"	36W869
5/16"	1/4"	36W870
5/16"	3/8"	36W871
3/8"	1/4"	36W885
3/8"	3/8"	36W886
3/8"	1/2"	36W887
1/2"	1/4"	36W898
1/2"	3/8"	36W899
1/2"	1/2"	36W901
Y Branch		
4mm	1/8"	36W831
4mm	1/4"	36W832
6mm	1/8"	36W845
6mm	1/4"	36W846
6mm	3/8"	36W847
8mm	1/8"	36W863
8mm	1/4"	36W864
8mm	3/8"	36W865
10mm	1/4"	36W879
10mm	3/8"	36W880
10mm	1/2"	36W881
12mm	1/4"	36W893
12mm	3/8"	36W894
12mm	1/2"	36W895

Tube Size	Pipe Size	Item No.
Tube x Male		
Extended Male Elbow, 90°		
3.2mm	M5 x 0.8	36X223
Male Adapter		
1/8"	M5 x 0.8	36W989
Tube x FNPT		
Female Adapter		
1/8"	1/8"	36X147
1/8"	1/4"	36X148
5/32"	1/8"	36X149
5/32"	1/4"	36X150
1/4"	1/8"	36X151
1/4"	1/4"	36X152
1/4"	3/8"	36X153
5/16"	1/8"	36X154
5/16"	1/4"	36X155
5/16"	3/8"	36X156
3/8"	1/4"	36X157
3/8"	3/8"	36X158
3/8"	1/2"	36X159
1/2"	3/8"	36X160
1/2"	1/2"	36X161
Female Elbow, 90°		
1/8"	1/8"	36X176
1/8"	1/4"	36X177
5/32"	1/8"	36X178
5/32"	1/4"	36X179
1/4"	1/8"	36X180
1/4"	1/4"	36X181
1/4"	3/8"	36X182
3/8"	1/4"	36X183
3/8"	3/8"	36X184
3/8"	1/2"	36X185
1/2"	3/8"	36X186
1/2"	1/2"	36X187

Tube Size	Pipe Size	Item No.
Tube x Female BSPT		
Female Adapter		
4mm	1/8"	36X162
4mm	1/4"	36X163
6mm	1/8"	36X164
6mm	1/4"	36X165
6mm	3/8"	36X166
8mm	1/8"	36X167
8mm	1/4"	36X168
8mm	3/8"	36X169
10mm	1/4"	36X170
10mm	3/8"	36X171
12mm	1/4"	36X172
12mm	3/8"	36X173
12mm	1/2"	36X174
16mm	1/2"	36X175
Female Elbow, 90°		
4mm	1/8"	36X190
6mm	1/8"	36X193
6mm	1/4"	36X194
6mm	3/8"	36X195
8mm	1/8"	36X196
8mm	1/4"	36X197
8mm	3/8"	36X198
10mm	1/4"	36X199
10mm	3/8"	36X201
12mm	1/4"	36X202
12mm	3/8"	36X203
12mm	1/2"	36X204

ALPHA FITTINGS & ACCESSORIES

Swift-Fit Universal Flow Controls

- Max. pressure: 190 psi (fittings)
- Temp. range: 0° to 200°F

Male threads on PTC fittings are compatible with both inch and metric female thread systems. Will not strip threads on either the fitting or the component. Built-in reusable Buna thread seal for quick, low-profile installation.

Tube Size	Thread Size	Item No.
Knob Adjustment, Control Flow In and Out		
Swift-Fit x Tube		
1/8"	1/8"	1VRF4
1/4"	1/8"	1VRF5
1/4"	1/4"	1VRF6
3/8"	1/4"	1VRF7
3/8"	3/8"	1VRF8
1/2"	3/8"	1VRF9
1/2"	1/2"	1VRG1
Swift-Fit x Female NPT		
1/8"	1/8"	1VRF1
1/4"	1/4"	1VRF2
3/8"	3/8"	1VRF3

Tube Size	Thread Size	Item No.
Knob Adjustment, Control Flow Out		
Swift-Fit x Tube		
1/8"	1/8"	6MN36
1/4"	1/8"	1VRD4
1/4"	1/4"	6MN37
3/8"	1/4"	1VRD5
3/8"	3/8"	1VRD6
1/2"	3/8"	1VRD7
1/2"	1/2"	1VRD8
Swift-Fit x Female NPT		
1/8"	1/8"	1VRD1
1/4"	1/4"	1VRD2
3/8"	3/8"	1VRD3

Tube Size	Thread Size	Item No.
Screw Adjustment, Control Flow In and Out		
Swift-Fit x Female NPT		
1/8"	1/8"	1VRD9
1/4"	1/4"	1VRE1
3/8"	3/8"	1VRE2
Swift-Fit x Tube		
1/8"	1/8"	1VRE3
1/4"	1/8"	1VRE4
1/4"	1/4"	1VRE5
3/8"	1/4"	1VRE6
3/8"	3/8"	1VRE7
1/2"	3/8"	1VRE8
1/2"	1/2"	1VRE9

Tube Size	Thread Size	Item No.
Screw Adjustment, Control Flow Out		
Swift-Fit x Tube		
1/8"	1/8"	6MN33
1/4"	1/8"	6MN34
1/4"	1/4"	6MN35
3/8"	1/4"	1VRC6
3/8"	3/8"	1VRC7
1/2"	3/8"	1VRC8
1/2"	1/2"	1VRC9

FIND MORE ONLINE

Can't find it here? Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the services and solutions to help you get it done!

Glass-Filled Nylon Push-To-Connect Fittings

- Max. pressure: 290 psi
- Temp. range: -4° to 175°F
- Pkg. qty.: 10, unless otherwise noted

Stainless steel gripping ring allows you to create a secure, leak-free connection without tools; disconnects easily with the plastic release button. All threaded elbows, tees, and Y's swivel around the threaded, nickel-plated base for easy installation. Fitting bodies are a composite material—nylon and nickel-plated brass. Thread sealant is preapplied to all tapered threads. Buna N elastomer seals. Can be used with all pneumatic machines, as well as for food-processing, packaging equipment, textile machinery, robotics, and semiconductor applications. Use with semirigid nylon, flexible polyurethane, polyethylene, and PTFE tubing.

10-32 UNF threads include O-ring seal.

Tube O.D. x NPT/UNF

Male Connector



Tube Size	Pipe Size	Item No.
1/8"	1/16"	1PFF4
1/8"	1/8"	1PFF5
1/8"	1/4"	1PFF6
1/8"	10-32	1PFW1
5/32" or 4mm	1/8"	1PFF3
5/32" or 4mm	1/4"	1PFW2
5/32" or 4mm	10-32	1PFF1
3/16"	1/8"	1PFF7 #
3/16"	1/4"	1PFF8 #
1/4"	1/8"	1PFF9
1/4"	1/4"	1PFG1
1/4"	3/8"	1PFG2
1/4"	10-32	1PFF2
5/16" or 8mm	1/8"	5WRZ5
5/16" or 8mm	1/4"	5WRZ6
5/16" or 8mm	3/8"	5WRZ7
3/8"	1/8"	1PFG3
3/8"	1/4"	1PFG4
3/8"	3/8"	1PFG5
3/8"	1/2"	1PFW3
1/2"	1/4"	1PFG6
1/2"	3/8"	1PFW4
1/2"	1/2"	1PFG7
6mm	1/8"	5WRZ8
6mm	1/4"	5WRZ9
10mm	1/4"	5WTA0
10mm	3/8"	5WTA1
10mm	1/2"	5WTA2
12mm	3/8"	5WTA3
12mm	1/2"	5WTA4

Female Connector



Tube Size	Pipe Size	Item No.
1/8"	1/8"	1PEL4
1/8"	1/4"	1DCD3
1/8"	10-32	5WTG5
5/32"	1/8"	1PEL2
5/32"	1/4"	1PEL3
1/4"	1/8"	1PEL5
1/4"	1/4"	1PEL6
5/16"	1/8"	1XCW8
5/16"	1/4"	1DCD1
3/8"	1/8"	1DCD5
3/8"	1/4"	1PEL8
3/8"	3/8"	1PEL7
3/8"	1/2"	5WTH0
1/2"	1/4"	5WTH1
1/2"	3/8"	1DCD7
1/2"	1/2"	1DCD9

Male Elbow, 90°



Tube Size	Pipe Size	Item No.
1/8"	1/16"	1DCZ9
1/8"	1/8"	1PFA5
1/8"	1/4"	1PFA6
1/8"	10-32	1DDA2
5/32" or 4mm	1/8"	1PFA2
5/32" or 4mm	1/4"	1PFA3
5/32" or 4mm	10-32	1PFA4
3/16"	1/8"	1PFA7
1/4"	1/8"	1PFA8
1/4"	1/4"	1PFA9
1/4"	3/8"	1PFB5
1/4"	10-32	1PFB6
5/16" or 8mm	1/8"	1DCP2
5/16" or 8mm	1/4"	1DCP4
5/16" or 8mm	3/8"	1DCP6
3/8"	1/8"	1PFB7
3/8"	1/4"	1PFB8
3/8"	3/8"	1PFB9
3/8"	1/2"	1PFC1
1/2"	1/4"	1PFC2
1/2"	3/8"	1PFC3
1/2"	1/2"	1PFC4
6mm	1/8"	1DCN7
6mm	1/4"	1DCN9
10mm	1/4"	1DCY8
10mm	3/8"	1DCZ1
10mm	1/2"	1DCZ3
12mm	3/8"	1DCZ5
12mm	1/2"	1DCZ7

Extended 90° Male Elbow



Tube Size	Pipe Size	Item No.
1/8"	1/8"	1DDP7
5/32" or 4mm	1/8"	1DDA4
5/32" or 4mm	1/4"	1DDA6
5/32" or 4mm	10-32	5WRY6
1/4"	1/8"	1PFD6
1/4"	1/4"	1PFD7
1/4"	3/8"	1DDP9
5/16" or 8mm	1/8"	1DDA8
5/16" or 8mm	1/4"	1DDP6
3/8"	1/8"	1DDR1
3/8"	1/4"	1PFD8
3/8" x 3/8"	3/8"	1PFD9

45° Male Elbow



Tube Size	Pipe Size	Item No.
1/8"	1/8"	4GWY4
1/4"	1/8"	4GWZ2
1/4"	1/4"	4GWZ3
5/16" or 8mm	1/8"	4GWZ5
5/16" or 8mm	1/4"	4GWZ6
3/8"	1/8"	4GWZ8
3/8"	1/4"	4GWZ9
3/8"	3/8"	4GXA1

90° Female Elbow



Tube Size	Pipe Size	Item No.
1/8"	1/8"	1XCV7
5/32"	1/8"	1XCU8
1/4"	1/8"	1XCV9
1/4"	1/4"	1XCW2
5/16"	1/4"	1XCV5
3/8"	1/4"	1XCW4
1/2"	3/8"	1XCW6

Male Branch Tee*



Tube Size	Pipe Size	Item No.
1/8"	1/16"	1PEW7
1/8"	1/8"	1PEW8
1/8"	1/4"	1PEX4
1/8"	10-32	1DCN3
5/32" or 4mm	1/8"	1PEV9
5/32" or 4mm	1/4"	1PEW1
5/32" or 4mm	10-32	1DCE8
1/4"	1/8"	1PEW9
1/4"	1/4"	1PEX1
1/4"	3/8"	1PEX2
5/16" or 8mm	1/8"	1DCL6
5/16" or 8mm	1/4"	1DCL8
5/16" or 8mm	3/8"	1DCN1
3/8"	1/8"	1PEX3
3/8"	1/4"	1PEX8
3/8"	3/8"	1PEX9
3/8"	1/2"	1DCN5
1/2"	1/4"	1PEY1
1/2"	3/8"	1PEY2
1/2"	1/2"	1PEY3
6mm	1/8"	5WRY7
6mm	1/4"	5WRY8
10mm	1/4"	5WRY9
10mm	3/8"	5WRZ0
10mm	1/2"	5WRZ1
12mm	3/8"	5WRZ2

Male Run Tee*



Tube Size	Pipe Size	Item No.
1/8"	1/16"	5WTA6
1/8"	1/8"	1PER4
1/8"	10-32	5WTA5
5/32" or 4mm	1/8"	1PEP9
5/32" or 4mm	1/4"	5WTA8
5/32" or 4mm	10-32	5WTA7
1/4"	1/8"	1PER5
1/4"	1/4"	1PER6
1/4"	3/8"	1PER7
5/16" or 8mm	1/8"	5WTC0
5/16" or 8mm	1/4"	5WTC1
5/16" or 8mm	3/8"	5WTC2
3/8"	1/8"	5WTC3
3/8"	1/4"	1PER8
3/8"	3/8"	1PER9
3/8"	1/2"	1PEU1
1/2"	1/4"	5WTC4
1/2"	3/8"	5WTC5
1/2"	1/2"	1PEU2
6mm	1/8"	5WTC6
6mm	1/4"	5WTC7

Male Y Connector



Tube Size	Pipe Size	Item No.
1/8"	1/8"	5WRZ4
1/4"	1/4"	1PFE4
3/8"	1/4"	1PFV7
3/8"	3/8"	1PFV8
5/32" or 4mm	1/8"	1PFE1
5/32" or 4mm	1/4"	1PFE2

Single Banjo



Tube Size	Pipe Size	Item No.
1/8"	10-32	4GXC5
5/32" or 4mm	10-32	4GXC6
1/4"	1/8"	4GXD1
1/4"	1/4"	4GXD2
1/4"	10-32	4GXC9
3/8"	1/4"	4GXD6

Male Standpipe



Tube Size	Pipe Size	Item No.
1/4"	1/4"	4GXE3
5/16" or 8mm	1/4"	4GXE5
3/8"	1/4"	4GXE7

Female Bulkhead Adapter



Tube Size	Pipe Size	Item No.
5/32"	1/4"	1PEL9
1/4"	1/8"	5WTG3
1/4"	1/4"	1PEN1
3/8"	3/8"	1PEN2

Tube O.D. x BSPP/Metric

Male Connector



Tube Size	Pipe Size	Item No.
4mm	1/8"	1PEN3
4mm	1/4"	1PEN4
4mm	M3 x 0.5	5WTD3
4mm	M5 x 0.8	1PEN5
4mm	M7 x 1	5WTD4
6mm	1/8"	1PEL1
6mm	1/4"	1PEN6
6mm	3/8"	1DDZ9
6mm	1/2"	1DEB1
6mm	M10 x 1	5WTD7
6mm	M12 x 1.5	5WTD8
6mm	M5 x 0.8	5WTD5
6mm	M7 x 1	5WTD6
8mm	1/8"	1PEN7
8mm	1/4"	1PEN8
8mm	3/8"	1PEN9
8mm	1/2"	1DEB2
8mm	M10 x 1	5WTD9
8mm	M12 x 1.5	5WTE0
10mm	1/4"	1PEP1
10mm	3/8"	1PEP2
10mm	1/2"	1DEB3
12mm	1/4"	1DEB4
12mm	3/8"	1DEB5
12mm	1/2"	1DEB6
14mm	3/8"	1DEB7
14mm	1/2"	1DEB8
16mm	3/8"	19D041 **
16mm	1/2"	19D042 **

Female Connector



Tube Size	Pipe Size	Item No.
4mm	1/8"	1DDZ3
6mm	1/8"	1DDZ5
6mm	1/4"	1DDZ6
8mm	1/8"	1DDZ7
8mm	1/4"	1DDZ8
10mm	3/8"	4GWT2
12mm	1/2"	4GWT4
16mm	1/2"	19D043 **

90° Male Elbow



Tube Size	Pipe Size	Item No.
4mm	1/8"	1PFG8
4mm	1/4"	1PFG9
4mm	M3 x 0.5	1DET6
4mm	M5 x 0.8	1PFH1
4mm	M7 x 1	1DET7
6mm	1/8"	1PFH2
6mm	1/4"	1PFH3
6mm	3/8"	1PFW5
6mm	1/2"	1DET8
6mm	M10 x 1	1DEU1
6mm	M12 x 1.5	1DEU2
6mm	M5 x 0.8	1PFH4
6mm	M7 x 1	1DET9
8mm	1/8"	1PFH5
8mm	1/4"	1PFH6
8mm	3/8"	1PFH7
8mm	1/2"	1DEU3
8mm	M10 x 1	1DEU4
8mm	M12 x 1.5	1DEU5
10mm	1/4"	1PFH8
10mm	3/8"	1PFH9
10mm	1/2"	1PFJ1
12mm	1/4"	1DEU6
12mm	3/8"	1DEU7
12mm	1/2"	1DEU8
14mm	3/8"	1DEU9
14mm	1/2"	1DEV1
16mm	3/8"	19D044 **
16mm	3/8"	19D046 **
16mm	1/2"	19D045 **
16mm	1/2"	19D047 **

** Tees read: run x run x outlet. † Pkg. qty.: 50. ** Sold as each.*
Temp. range: 5 to 155°F; Max. pressure: 260 psi; Bare brass.

CONTINUED

CONTINUED

Glass-Filled Nylon Push-To-Connect Fittings

legris

Tube Size	Pipe Size	Item No.
Tube O.D. x BSPP/Metric (Cont.)		
45° Male Elbow		
6mm	1/8"	4GWT7
6mm	1/4"	4GWT8
6mm	M5 x 0.8	5WTE2
Male Branch Tee*		
4mm	1/8"	4GWU7
4mm	M5 x 0.8	5WTE5
6mm	1/8"	4GWU9
6mm	1/4"	4GWX1
6mm	M5 x 0.8	5WTE6
8mm	1/8"	4GWX2
8mm	1/4"	4GWX3
8mm	3/8"	4GWX4
10mm	1/4"	4GWX5
14mm	1/2"	5WTG0
16mm	3/8"	19D050 **
16mm	3/8"	19D054 **
16mm	1/2"	19D051 **
16mm	1/2"	19D055 **
Male Run Tee*		
4mm	1/8"	4GWP5
4mm	1/8"	1DEP7
4mm	M5 x 0.8	1DEP9
6mm	1/8"	4GWP7
6mm	1/8"	1DER1
8mm	1/8"	4GWP9
8mm	1/4"	4GWR1
8mm	1/4"	1DER4
8mm	3/8"	4GWR2
10mm	1/4"	1DER6
14mm	1/2"	1DET5
16mm	3/8"	19D048 **
16mm	3/8"	19D052 **
16mm	1/2"	19D053 **
Female Bulkhead Connector		
16mm	3/8"	19D060 **
16mm	1/2"	19D061 **

Tube Size	Pipe Size	Item No.
Tube O.D. x BSPT/Metric		
Male Connector		
1/8"	1/8"	4GXF1
5/32" or 4mm	1/8"	4GXF2
5/32" or 4mm	1/4"	4GXF3
3/16"	1/8"	4GXF4
1/4"	1/8"	4GXF5
1/4"	1/4"	4GXF6
5/16" or 8mm	1/4"	4GXF7
3/8"	1/4"	4GXF8
3/8"	3/8"	4GXF9
1/2"	3/8"	4GXG1
1/2"	1/2"	4GXG2
6mm	1/8"	4AAA1
6mm	1/4"	4GWH8
8mm	1/8"	4GWH9
8mm	3/8"	4GWJ1
10mm	1/4"	4GWJ2
12mm	1/4"	4GWJ3
12mm	3/8"	4GWJ4
12mm	1/2"	4GWJ5
14mm	3/8"	4GWJ6
14mm	1/2"	4GWJ7
16mm	3/8"	19D039 **
16mm	1/2"	19D040 **
90° Male Elbow		
1/8"	1/8"	4GXG3
5/32" or 4mm	1/8"	4GXG4
3/16"	1/8"	4GXG5
1/4"	1/8"	4GXG6
1/4"	1/4"	4GXG7
5/16" or 8mm	1/4"	4GXG8
3/8"	1/4"	4GXG9
3/8"	3/8"	4GXH1
1/2"	3/8"	4GXH2
1/2"	1/2"	4GXH3
4mm	1/4"	4GWL1
6mm	1/8"	4GWL2
6mm	1/4"	4GWL3
8mm	1/8"	4GWL4
8mm	3/8"	4GWL5
10mm	1/4"	4GWL6
12mm	1/4"	4GWL7
12mm	3/8"	4GWL8
12mm	1/2"	4GWL9
14mm	3/8"	4GWN1
14mm	1/2"	4GWN2
45° Male Elbow		
4mm	1/8"	4GWJ8
8mm	1/4"	4GWK4

Tube Size	Pipe Size	Item No.
Male Branch Tee*		
5/32" or 4mm	1/8"	4GXH5
1/4"	1/8"	4GXH7
1/4"	1/4"	4GXH8
3/8"	1/4"	4GXJ1
3/8"	3/8"	4GXJ2
4mm	1/4"	4GWN3
6mm	1/8"	4GWN4
6mm	1/4"	4GWN5
8mm	1/8"	4GWN6
8mm	1/4"	4GXH9
10mm	1/4"	4GWN8
12mm	1/4"	4GWN9
12mm	1/2"	4GWP2

Tube Size	Pipe Size	Item No.
Tube O.D. x Stem		
Plug-In 90° Elbow		
1/8"	—	1DDU3
5/32" or 4mm	—	1DEK7
5/32"	—	1DDU2
1/4"	—	1DDU4
1/4"	—	1DDU5
5/16" or 8mm	—	1DEL3
3/8"	—	1DDU6
1/2"	—	1DDU7
Extended 90° Plug-In Elbow		
5/32" or 4mm	—	1DFV2
1/4"	—	1DDV3
5/16" or 8mm	—	1DEN2
Plug-In Tee*		
1/4"	—	1DDV6
5/16" or 8mm	—	1DEP2
Plug-In Run Tee*		
1/4"	—	1DDU8
Plug-In Y		
5/32" or 4mm	—	1DEG8
1/4"	—	1DDR9
5/16" or 8mm	—	1DEH3
3/8"	—	1DDU1
Plug-In Reducer		
1/8"	1/4"	1PFE6
5/32"	1/4"	1PFE5
1/4"	5/16"	1PFV9
1/4"	3/8"	1PFE7
1/4"	1/2"	1PFE8
3/8"	1/2"	1PFE9
4mm	—	1DEK4
4mm	—	1DEK6
6mm	—	1DEK5
8mm	—	5WTH2
10mm	—	5WTH3
Plug		
1/8"	—	1PFD4
5/32" or 4mm	—	1PFC9 †
1/4"	—	1PFD5
5/16" or 8mm	—	1PFD2
3/8"	—	1PFV5
1/2"	—	1PFV6
6mm	—	1PFD1 †
10mm	—	1PFD3
12mm	—	4GWX9
16mm	—	19D062 **

Tube Size	Pipe Size	Item No.
Tube O.D. Union		
1/8" x 1/4"	—	1PEW2
1/8"	—	1PEV2
5/32" x 1/4"	—	5WTJ5
5/32" or 4mm	—	1PEU9
3/16"	—	4GXJ5
1/4"	—	1PEV6
5/16" or 8mm	—	1PEV1
3/8" x 1/4"	—	1PEW5
3/8" x 1/2"	—	5WTJ6
3/8"	—	1PEV7
1/2"	—	1PEV8
4 x 6mm	—	5WTJ7
6mm	—	1DED8
6 x 8mm	—	5WTJ8
10mm x 12mm	—	5WTJ9
10mm	—	1DED9
12mm	—	1DEF1
14mm	—	1DEF2
16mm	—	19D056 **

Tube Size	Pipe Size	Item No.
90° Union Elbow		
1/8"	—	1PEP5
1/8" x 1/4"	—	4GXK6
5/32" or 4mm	—	1PEP3
5/32" x 1/4"	—	4GXK7
3/16"	—	5WTH4
1/4"	—	1PEP6
5/16" or 8mm	—	1PEP4
3/8"	—	1PEP7
3/8" x 1/4"	—	4CJR9
3/8" x 1/2"	—	4CJT1
1/2"	—	1PEP8
4mm x 6mm	—	5WTH5
6mm	—	1DEB9
10mm	—	1DED1
12mm	—	1DED2
14mm	—	1DED3
16mm	—	19D057 **
Union Tee*		
1/8" x 1/4"	—	4GXJ6
1/8"	—	1PEU5
5/32" x 1/4"	—	4GXJ7
5/32" or 4mm	—	1PEU3
3/16"	—	5WTH7
1/4" x 1/8"	—	4GXJ8
1/4" x 5/32"	—	4GXJ9
1/4" x 3/8"	—	4GXK1
1/4"	—	1PEU6
5/16" or 8mm	—	1PEU4
3/8" x 1/2"	—	4GXK3
3/8" x 1/4"	—	4GXK2
3/8"	—	1PEU7
1/2" x 1/4"	—	4GXK4
1/2" x 3/8"	—	4GXK5
1/2"	—	1PEU8
4mm x 6mm	—	5WTH8
6mm x 4mm	—	5WTH9
6mm x 8mm	—	5WTJ0
6mm	—	1DED4
8mm, 5/16" x 6mm	—	5WTJ1
8mm x 10mm	—	5WTJ2
10mm x 8mm	—	5WTJ3
10mm	—	1DED5
12mm	—	1DED6
14mm	—	1DED7
16mm	—	19D058 **
16mm x 12mm	—	19D059 **
Union Y		
1/8"	—	1DDR3
5/32" or 4mm	—	1DEF8
5/32" x 1/4"	—	1DDR2
3/16"	—	5WTK0
1/4"	—	1DDR5
1/4" x 3/8"	—	1DDR6
5/16" or 8mm	—	1DEG3
3/8"	—	1DDR7
4 x 6mm	—	1DEF9
6mm	—	1DEG1
6 x 8mm	—	1DEG2
8 x 10mm	—	1DEG4
10mm	—	1DEG5
10 x 12mm	—	1DEG6
12mm	—	1DEG7
Equal Cross		
1/4"	—	1DCE2
5/16" or 8mm	—	1DCG9
6mm	—	1DCE6
Bulkhead Union		
1/8"	—	1PFT9
5/32"	—	1PFC5
1/4"	—	1PFC6
5/16" or 8mm	—	1DEF4
3/8"	—	1PFC7
1/2"	—	1PFV3
6mm	—	1DEF3
10mm	—	1DEF5

** Tees read: run x run x outlet. † Pkg. qty.: 50. ** Sold as each. # Temp. range: 5 to 155°F; Max. pressure: 260 psi; Bare brass.*

Swift-Fit Universal Nickel-Plated Brass Push-To-Connect Fittings

- Max. pressure: 290 psi
- Temp. range: 0° to 200°F
- ⅛" to ⅜" and 3mm to 8mm fittings sold in pkg. of 5
- ½" and 10mm to 14mm fittings sold in pkg. of 3

Feature universal threads that are compatible with NPT, BSPP, BSPT, ISO 7, ISO 228, G, and J style female pipe threads. The fitting design allows you to carry only 1 thread style and helps you avoid wasting time trying to identify the thread pitch of each fitting before connecting to tubing. Buna thread seal and innovative internal lip seal helps eliminate leaks; no need to use PTFE tape or thread sealants. Fittings can be used with copper, nylon, polyethylene, and polyurethane tubing and are suitable for use in pneumatics, robotics, and water applications.



Tube Size	Pipe Size	Male Connection Long Item No.	Male Connection Item No.	Male Swivel Elbow, 90° Item No.	Male Swivel Branch Tee* Item No.	Male Swivel Run Tee* Item No.
⅛"	⅛"	—	5UPJ1	5UPL5	5UPP2	5UPR6
⅛"	¼"	—	5UPJ2	—	5UPP3	5UPR7 ‡
⅛"	10-32	5UPK9	—	—	—	—
5⁄32"	⅛"	5UPL3	5UPK7	5UPP0	5UPR4	5UPT8
5⁄32"	¼"	—	5UPK8	5UPP1	5UPR5	5UPT9
5⁄32"	10-32	5UPL4	—	—	—	—
¼"	⅛"	5UPL0	5UPJ3	5UPL7	5UPP4	5UPR8
¼"	¼"	5UPL1	5UPJ4	5UPL8	5UPP5	5UPR9 †
¼"	⅜"	—	5UPJ5	5UPL9	5UPP6	5UPT0
¼"	10-32	5UPL2	—	—	—	—
5⁄16"	⅛"	—	5UPJ6	5UPN0	—	—
5⁄16"	¼"	—	5UPJ7	5UPN1	—	—
5⁄16"	⅜"	—	5UPJ8	5UPN2	—	—
⅜"	⅛"	—	5UPJ9	5UPN3	5UPP7	5UPT1
⅜"	¼"	—	5UPK0	5UPN4	5UPP8	5UPT2
⅜"	⅜"	—	5UPK1	5UPN5	5UPP9	5UPT3
⅜"	½"	—	5UPK2	5UPN6	5UPR0	5UPT4
½"	⅛"	—	5UPK3	—	—	—
½"	¼"	—	5UPK4	5UPN7	5UPR1	5UPT5
½"	⅜"	—	5UPK5	5UPN8	5UPR2	5UPT6
½"	½"	—	5UPK6	5UPN9	5UPR3	5UPT7
3mm	3/16	1WUN1	1WUN9	1WUW7	1WUZ8	1WVB8
4mm	⅛"	1WUN2	1WUL1	1WUV8	1WUY9	—
4mm	3/16	1WUN3	1WUP1	1WUW8	1WUZ9	1WVB9
4mm	¼"	—	1WUK9	1WUV7	1WUY8	1WVA8
5mm	⅛"	—	1WUL3	1WUV9	1WUZ1	1WVB1
5mm	¼"	—	1WUL2	—	—	—
6mm	⅛"	—	1WUN5	1WUW2	1WUZ3	1WVB3
6mm	⅛"	—	1WUL5	—	—	—
6mm	3/16	1WUN6	—	—	1WVA2	1WVC2
6mm	¼"	1WUN4	1WUL4	1WUW1	1WUZ2	1WVB2
8mm	⅛"	1WUN8	1WUL8	1WUW5	1WUZ6	1WVB6
8mm	¼"	1WUN7	1WUL7	1WUW4	1WUZ5	1WVB5
8mm	⅜"	—	1WUL9	1WUW6	1WUZ7	1WVB7
8mm	½"	—	1WUL6	1WUW3	1WUZ4	1WVB4
10mm	¼"	—	1WUK2	1WUV1	1WUY2	1WVA4
10mm	⅜"	—	1WUK3	1WUV2	1WUY3	1WVA5
10mm	½"	—	1WUK1	1WUT9	1WUY1	1WVA3
12mm	¼"	—	1WUK5	—	—	—
12mm	⅜"	—	1WUK6	1WUV4	1WUY5	1WVA7
12mm	½"	—	1WUK4	1WUV3	1WUY4	1WVA6
14mm	⅜"	—	1WUK8	1WUV6	1WUY7	—
14mm	½"	—	1WUK7	1WUV5	1WUY6	—



Tube Size	Union Item No.	Union Tee* Item No.	Bulkhead Union Item No.
⅛"	6MM83	6MM87	—
¼"	6MM84	6MM88	6MN24
⅜"	6MM85	6MM89	6MN25
½"	6MM86	6MM90	6MN26



Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Union Tee* Item No.	Union Y Item No.
⅛"	31TT74	31TT80	—	31TT86
5⁄32"	31TT75	31TT81	31TT83	31TT87
¼"	31TT76	—	—	31TT88
5⁄16"	31TT77	31TT82	31TT84	31TT89
⅜"	31TT78	—	—	31TT90
½"	31TT79	—	31TT85	—



Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Tube Union Item No.	Union Tee* Item No.	Union Y Item No.
Tube O.D.					
3mm	1WUX5	—	1WUR5	1WVC6	1WVD2
4mm	1WUX6	1WUT5	1WUR6	1WVC7	1WVD3
5mm	1WUX7	1WUT6	1WUR7	1WVC8	1WVD4
6mm	1WUX8	1WUT7	1WUR8	1WVC9	1WVD5
8mm	1WUX9	1WUT8	1WUT1	1WVD1	1WVD6
10mm	1WUX2	1WUT3	1WUR2	1WVC3	—
12mm	1WUX3	1WUT4	1WUR3	1WVC4	—
14mm	1WUX4	—	1WUR4	1WVC5	—



Inlet Port Size (in.)	Outlet Port Size	Filter Rating (microns)	Temp. Rating (°F)	H (in.)	L (in.)	Inline Filter Item No.
¼ Tube	¼"	40	15 To 176	.75	2.6	5UPG9
⅜ Tube	⅜"	40	15 To 176	.75	2.8	5UPH0

** Tees read: run x run x outlet. † Length is 1.654". ‡ Length is 1.339".*

Nickel-Plated Brass Push-To-Connect Fittings

- Max. pressure: 290 psi
- Temp. range: 0° to 200°F
- ⅛" to ⅜" and 4mm to 8mm tube size sold in pkg. of 5
- ½" and 10mm to 14mm tube size sold in pkg. of 3

An integrated Buna O-ring provides an additional seal, and fittings can be used with copper, nylon, polyethylene, and polyurethane tubing. Compatible with compressed air, inert gas, and nonpotable water.



Tube Size	Thread Size	Male Swivel Branch Tee* Item No.
⅛"	⅛"	6MN17
¼"	⅛"	6MN18
¼"	¼"	6MN19
⅜"	¼"	6MN20
⅜"	⅜"	6MN21
½"	½"	6MN22
6mm	⅛"	1WUZ3
6mm	¼"	1WUZ2



Tube Size	Tube Reducer Item No.	Tube Union Item No.
Tube O.D. Reducing Fittings		
4 x 3mm	1WVD9	—
5mm x 4mm	1WVE1	—
6mm x 4mm	1WVE2	1WUR9
6mm x 5mm	1WVE3	—
8 x 6mm	1WVE4	1WUT2
10 x 8mm	1WVD7	—
12mm x 8mm	1WVD8	—



Tube Size	Thread Size	Female Connector Item No.	Male Connector Item No.	Male Swivel Elbow, 90° Item No.
⅛"	⅛"	6MM93	6MM99	6MN09
5⁄32"	⅛"	6MM91	—	—
¼"	⅛"	6MM94	6MN01	6MN10
¼"	¼"	6MM95	6MN02	6MN11
¼"	10-32	—	6MN03	—
⅜"	⅛"	—	6MN04	6MN13
⅜"	¼"	6MM96	6MN05	6MN14
⅜"	⅜"	6MM97	6MN06	6MN15
½"	½"	—	6MN07	6MN16
4mm	⅛"	—	—	1WUV8
6mm	⅛"	—	1WUL5	1WUW2
6mm	⅛"	—	1WUN5	—
6mm	¼"	—	1WUL4	1WUW1
6mm	5mm	—	—	1WUX1
8mm	⅛"	—	1WUL8	1WUW5
8mm	¼"	—	1WUL7	1WUW4
8mm	⅜"	—	—	1WUW6
10mm	¼"	—	1WUK2	1WUV1
10mm	⅜"	—	—	1WUV2
12mm	½"	—	1WUK4	—

** Tees read: run x run x outlet.*

DEWALT SPEEDAIRE THOMAS by Gardner Denver ROLAIR PORTER CABLE

Portable 115VAC Electric Oil-Free Air Compressors

Speedaire®—No. 25F538 has steel hotdog tank, enclosed pressure gauges, regulator knob, and rubber feet for added stability on uneven surfaces. No. 1NNE7 has 2 pressure gauges, 2 quick connects, built-in control panel with regulator, and induction motor.

Rolair—Intake filter/silencer helps compressor operate at a quiet 60dB. Motor and pump are fully enclosed by a roll cage, for use in rugged environments. On-the-job life expectancy of approximately 2000 hr.

Thomas—Starts at 100 psi. 38-sec. recovery time.

DeWalt®—Has a roll cage, 2 gauges, and a factory-installed coupler.

Porter Cable®—No. 1VAN5 has 2 couplers. Motor starts easily in cold weather; upgraded shroud has rugged carry handle.



No. 1VAN7



No. 25F538



No. 5Z683



No. 413X03



No. 1VAN5

HP	Amps AC	Tank Size	Free Air CFM @ Max. Pressure	Max. Pressure	Weight	L	Overall W	H	Brand	Mfr. Model	Item No.
Hot Dog											
0.30	2.6	1.0 gal.	0.30	135 psi	24 lb.	19"	14½"	9"	DeWalt	D55140	**1VAN7**
0.33	2.6	2.0 gal.	0.60	100 psi	16 lb.	16½"	9⅞"	17½"	Speedaire	25F538	**25F538**
0.50	3.9	2.0 gal.	0.70	125 psi	26 lb.	16½"	8"	16 13/16"	Thomas	T-617 HDN	**5Z683**
0.75	12	3.0 gal.	2.00	135 psi	40 lb.	20"	9"	19"	Speedaire	45PL19	**45PL19**
1.00	—	2.5 gal.	0.20	150 psi	45 lb.	16½"	16½"	14"	Rolair	JC10PLUS	**413X03**
1.10	11	2.5 gal.	1.60	200 psi	37 lb.	20½"	16¾"	12½"	DeWalt	DWFP55130	**22YJ96**
1.60	—	4.5 gal.	3.00	200 psi	83 lb.	33½"	23"	15"	DeWalt	D55146	**445K70**
Pancake											
0.80	—	6.0 gal.	2.00	150 psi	30 lb.	18"	19"	18 3/16"	Porter Cable	C2002-WK	**54DF06**
0.90	10.0	6.0 gal.		150 psi	29 lb.	18"	18⅜"	15"	Porter Cable	C2002	**1VAN5**

SPEEDAIRE ROLAIR makita Jenny AIR COMPRESSOR DEWALT

Portable Electric Oil-Lubricated Air Compressors

Speedaire®—No. 11X355 has a cast-iron cylinder, heavy-duty roll bar, and vibration-absorbing rubber feet. No. 2MLW5 has an aluminum-head cylinder with cast-iron sleeve.

Rolair—Contractor-grade professional units have cast-iron cylinders and low amp-draw motors. Nos. 26JY35 and 26JY36 feature an easily maneuvered dolly cart design and a user-friendly control panel. No. 26JY35 also has a tool box for convenient storage.

Jenny—Unit features a heavy-duty steel tank and frame mounted on antivibration feet. Comes standard with cast-iron cylinder soft-start direct-drive pump, with safety valves, pressure regulator, and gauges.

Makita®—Durable low-noise compressors feature pumps with oil-lubricated cast-iron cylinders and big-bore pistons; provide outstanding performance and fast recovery time.

DeWalt®—Have a side-stack tank design, cast-iron cylinder, dual soft-start valves, and ball drain. No. 1VAN9 is wheeled.


No. 22YJ55



No. 1VAP1


No. 11X355



No. 26JY34



No. 26JY10

HP	Input Voltage	Amps AC	Tank Size	Free Air CFM @ Max. Pressure	Max. Pressure	Weight	L	Overall W	H	Brand	Mfr. Model	Item No.
Hot Dog												
2.00	120VAC	15.0	4.0 gal.	4.10	200 psi	132 lb.	26 3/16"	22⅛"	19⅞"	Speedaire	2MLW5	**2MLW5**
2.00	120VAC	12.3	3.2 gal.	3.90	125 psi	80 lb.	21"	21"	31"	Rolair	VT20TB	**26JY35**
2.00	120VAC	13.8	2.6 gal.		130 psi	52 lb.	19 ½"	11 ½"	23 ½"	Makita	MAC700	**22YJ55**
2.50	120VAC	13.8	5.3 gal.	5.90	130 psi	108 lb.	19"	19"	37"	Rolair	VT25BIG	**26JY36**
3.00	120VAC	13.8	5.2 gal.		140 psi	88 lb.	20 ½"	30"	21"	Makita	MAC5200	**22YJ54**
Twin Stack												
1.10	120VAC	15	4.0 gal.	2.70	125 psi	54 lb.	18½"	15"	16¾"	DeWalt	D55151	**1VAP1**
1.10	120VAC	15.0	4.0 gal.		125 psi	87 lb.	22"	18½"	23"	DeWalt	D55154	**1VAN9**
1.30	120VAC	15.0	4.0 gal.	4.00	125 psi	71 lb.	19⅝"	18⅞"	17⅞"	Speedaire	11X355	**11X355**
2.00	120VAC	14.6	4.3 gal.	3.90	135 psi	62 lb.	20"	15"	17"	Rolair	FC2002	**26JY34**
2.00	120VAC	13.3	4.2 gal.	3.30	125 psi	58 lb.	20"	15½"	16 -1/2"	Jenny	A2G246-HC4V-115/1	**26JY10**

Vehicle-Mounted 12V and 24VDC Oil-Lubricated Air Compressors

★GA GRAINGER APPROVED

Oasis

Designed to be mounted on service trucks, tow trucks, and maintenance vehicles, for commercial and industrial use. Heavy-duty models have a fan-cooled motor. Continuous-duty models have a fan-cooled cylinder head and motor. Mounts on a tank or with accessory packages, sold separately.


53XG18


No. 22NW59

HP	Free Air CFM @ Max. Pressure	Max. Pressure	Full Load Amps	Overall Length	Overall Width	Overall Height	Brand	Heavy Duty Weight	Heavy Duty Item No.	Continuous Duty Weight	Continuous Duty Item No.
12VDC											
2.20	8.00	200 psi	160	21"	7"	11"	Oasis	62 lb.	**22NW57**	—	— —
2.20	8.00	200 psi	160	40"	10"	26"	Oasis	147 lb.	**53XG18**	152 lb.	**53XG20**
2.20	8.00	200 psi	180	21"	7"	11"	Oasis	—	— —	67 lb.	**22NW59**
24VDC											
2.20	8.00	200 psi	90	21"	7"	11"	Oasis	62 lb.	**22NW58**	67 lb.	**22NW60**
2.20	8.00	200 psi	90	40"	10"	26"	Oasis	147 lb.	**53XG19**	152 lb.	**53XG21**

Description	Brand	Item No.
Vehicle Mounted Air Compressor Accessory Kit	GAV	**3MMC1**





Portable Electric Barrel Air Compressors

Feature ASME code tank, pressure regulator, and 2 pressure gauges.

Speedaire®—No 40CF16 features 225 psi to help increase tool run time. Includes a tank safety valve and quick connect release for attaching/removing air hose. No. 1NNF6 feature 2-cylinder cast-iron pumps with belt-drive design.

DeWalt®—Efficient high-Pressure (EHP) pump features ball drain valve and air hose storage. Low noise at 78dBA per ISO3744.

Rolair—Induction motor design with a cast-iron cylinder. Include foam-filled tires, coupler(s), and regulator.

HP	Tank Size	Free Air CFM @ 90 PSI	Full Load Amps	Input Voltage	Max. Pressure	Includes	Overall L	Overall W	Overall H	Weight	Brand	Mfr. Model	Item No.
Oilless Pump													
Horizontal													
1.60	15 gal.	5.00	15.0	120VAC	225 psi	—	39⅝"	16½"	30"	83 lb.	DeWalt	D55167	**445K72**
Vertical													
1.60	15 gal.	5.00	15.0	120VAC	225 psi	—	24½"	22"	44¾"	92 lb.	DeWalt	D55168	**445K71**
1.70	15 gal.	5.10	15.0	120VAC	225 psi	—	17"	18"	42"	99 lb.	Speedaire	40CF16	**40CF16**
Oil-Lubricated Pump													
Horizontal													
1.50	20 gal.	7.30	17.0	120VAC	135 psi	—	42"	22"	34"	200 lb.	Rolair	5520MK103-0072	**35DZ67**
2.00	15 gal.	5.50	15.0	120VAC, 240VAC	135 psi	Oil, Handle, Wheels, Regulator, Pressure Switch	32½"	19½"	29½"	136 lb.	Speedaire	52YM09	**52YM09**
	20 gal.	5.50	15.0/7.5	120VAC, 240VAC	135 psi	—	33"	19½"	31"	138 lb.	Speedaire	1NNF6	**1NNF6**
3.00	20 gal.	10.2	15.7	240VAC	135 psi	—	33"	19½"	31"	165 lb.	Speedaire	1NNF7	**1NNF7**
Vertical													
2.00	20 gal.	5.00	15.0	120VAC	200 psi	—	19⁵⁄₁₆"	19¹¹⁄₁₆"	41⁷⁄₁₆"	128 lb.	Speedaire	2MLW4	**2MLW4**
	20 gal.	5.50	15.0/7.5	120VAC, 240VAC	135 psi	—	24"	19"	46"	129 lb.	Speedaire	4TW29	**4TW29**
	24 gal.	5.10	14.6	120VAC	125 psi	Flat-Free Foam Filled Tires, Regulator, Gauge, Twin Couplers	23"	28"	44"	160 lb.	Rolair	FC250090L	**26JY37**
	30 gal.	5.50	15.0/7.5	120VAC, 240VAC	135 psi	Regulator, Gauge, Pneumatic Wheels, Wire Belt Guard, Bull Horn Handles	26"	23"	47"	178 lb.	Speedaire	48UY04	**48UY04**







Wheelbarrow Electric Air Compressors

Speedaire®—Includes pressure regulator, 2 pressure gauges, and 2 universal quick-connect couplers. Oil-lubricated, cast-iron pump has belt-driven design.

Jenny—Includes pressure regulator, pressure gages, stainless steel braided discharge hose, manual tank drains, antivibration feet, and flat-free tires. Cast-iron pump construction. UL Listed and CSA Certified.

Rolair—Include foam-filled tires, regulator, oil sight gauge, and ball valve drain. Induction-type motor and cast-iron cylinder. Nos. 35DZ69 and 35DZ68 can run start/stop or continuous.

HP	Input Voltage	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	Full Load Amps	Overall L	Overall W	Overall H	Weight	Mfr. Model	Brand	Item No.
1.50	120VAC, 240VAC	7.8 gal.	7.40	125 psi	15.8/7.9	42½"	18¼"	24¾"	179 lb.	K15A-8P-115/1	Jenny	**26JY12**
1.50	120VAC, 240VAC	9.0 gal.	7.30	135 psi	17.1/8.6	46"	19"	28"	174 lb.	5715K17	Rolair	**26JY38**
1.80	120VAC, 240VAC	9.0 gal.	5.50	135 psi	15.0/7.5	48"	24½"	24½"	159 lb.	4B222	Speedaire	**4B222**
3.00	240VAC	9.0 gal.	12.7	150 psi	17.9	46"	27"	29"	270 lb.	3230K24-0095	Rolair	**35DZ68**
5.00	240VAC	9.0 gal.	18.8	150 psi	28	46"	27"	34"	310 lb.	5230K30-0095	Rolair	**35DZ69**





Gas Engine-Powered Air Compressor/Generators

- **2-Stage (except No. 4NB86 is 1-stage)**

Use Compressor Oil No. 4ZF21, sold separately on page 2568, and Engine Oil No. 1UBX8, sold separately. Honda engines have low-oil shutdown.

Wheelbarrow Portable—Produce up to 3500W (except No. 4NB86 is 1600W) with compressor off-load. Splash-lubricated compressor has cast-iron cylinders. Generator includes one 120V, 15A duplex receptacle and one 230V, 20A receptacle (No. 4NB86 only has one 120V, 15A duplex receptacle).

Stationary—Cast-iron pumps are oil splash-lubricated. Combine 2-stage air compressor with 120V generator rated at 3500W with compressor off-load. Generator includes one 120V, 15A duplex receptacle and one 230V, 20A receptacle. Nos. 6EWK4 and 6EWK6 do not include battery and cables. 3.8-hr. full load run time.

Engine HP	Rated Watts	Tank Size	Tank Style	Engine Starter Type	Fuel Tank Capacity	(F)NPT Outlet	Free Air CFM @ 90 PSI	Max. Pressure	Sound Level	Overall L	Overall W	Overall H	Weight	Item No.
Wheelbarrow Portable														
6.5	600/1600	8.0 gal.	Wheelbarrow	Recoil	0.95 gal.	¼"	11.9	125 psi	74.8dB	44½"	26"	27½"	207 lb.	**4NB86**
13.0	2300/3500	8.0 gal.	Twin	Recoil	1.70 gal.	¼"	17.0	175 psi	80.4dB	44"	22"	34"	365 lb.	**13N456**
	2300/3500	8.0 gal.	Twin	Electric	1.70 gal.	¼"	17.0	175 psi	80.4dB	44"	22"	34"	370 lb.	**13N457**
Stationary														
13.0	2300/3500	8.0 gal.	Twin	Recoil	1.70 gal.	¼"	17.0	175 psi	80.4dB	44"	22"	32"	360 lb.	**4NB87**
	2300/3500	8.0 gal.	Twin	Electric	1.70 gal.	¼"	17.0	175 psi	80.4dB	44"	22"	32"	370 lb.	**6EWK4**
	2300/3500	30 gal.	Horizontal	Recoil	1.70 gal.	¼"	17.0	175 psi	80.4dB	40"	24½"*	45"	435 lb.	**6EWK5**
	2300/3500	30 gal.	Horizontal	Electric	1.70 gal.	¼"	17.0	175 psi	80.4dB	40"	24½"*	45"	445 lb.	**6EWK6**





Compressor/Generator/Welders

Combine 3 separate machines in 1 unit. 2-stage air compressor is rugged cast-iron construction. Stainless steel braided discharge hose with regulator and 2 gauges for tank and outlet pressure. Generator has 120V alternator with 4500W-rated AC output (rating is offload for No. 487J39; continuous for No. 39GC06). Generator includes two 120V, 20A duplex receptacles and one 120V/240V, 20A twist-lock receptacle. Arc welder features amperage selector switch with 50A to 170A for No. 487J39, and 220A for No. 39GC06 DC voltage working range. Subaru EX 420cc OHV engine for No. 487J39 and Honda V-Twin 688cc engine for No. 39GC06, both with electric start. Battery and cables not included.

Engine HP	Rated Watts	Free Air CFM @ 90 PSI	Tank Size	Tank Style	(F)NPT Outlet	Fuel Tank Capacity	Engine Starter Type	Max. Pressure	Welder Output Amp Range	Overall Length	Overall Width	Overall Height	Weight	Item No.
14.0	3000/4500	17.0	30 gal.	Horizontal	¼"	1.70 gal.	Electric, Recoil	175 psi	50 to 170	46"	22"	47"	650 lb.	**487J39**
22.0	4500	30.5	20 gal.	Horizontal	¼"	10.0 gal.	Electric	175 psi	50 to 220	47"	24"	47½"	803 lb.	**39GC06**

SPEEDAIRE

Portable Gas Engine-Powered Air Compressors

- Horizontal tank

Low-oil shutdown in engines. No. 4GB42 features a wraparound frame and includes regulator, 2 pressure gauges, cast-iron cylinder, and quick-connect fitting. Nos. 4B220 and 4B241 have throttle control, pressure regulator, gauge and splash lubricated cast-iron compressor pump. Nos. 4NB84 and 4GB45 include throttle control, pressure regulator, 2 gauges, and a oil-splash-lubricated cast-iron pump.



No. 4GB42



No. 4B241

Engine HP	Engine Brand	Tank Size	Tank Style	Free Air CFM @ 90 PSI	Max. Pressure	(F)NPT Outlet	Pump RPM	Engine Oil Capacity	Overall L	Overall W	Overall H	Weight	Item No.
Single-Stage, Oil-Lubricated													
4.0	Honda	5.0 gal.	Twin	4.60	125 psi	¼"	3000	20 oz.	21½"	17½"	21¾"	76 lb.	**4GB42**
5.5	Honda	20 gal.	Horizontal	10.2	135 psi	¼"	1020	21 oz.	33"	19¾"	31¼"	157 lb.	**4B241**
	Briggs	20 gal.	Horizontal	10.2	135 psi	¼"	1020	21 oz.	19¾"	19¾"	31¼"	153 lb.	**4B220**
6.5	Honda	30 gal.	Horizontal	13.9	125 psi	⅜"	1260	20 oz.	46"	27½"	40"	244 lb.	**4NB84**
2-Stage, Oil-Lubricated													
9.0	Honda	20 gal.	Horizontal	18.3	175 psi	⅜"	864	37 oz.	46"	26"	41½"	337 lb.	**4GB45**

Jenny AIR COMPRESSOR | Ingersoll Rand | Chicago Pneumatic | SPEEDAIRE

Wheelbarrow Gas Engine-Powered Air Compressors

Speedaire®—Cast-iron, oil-lubricated pump construction with 100% continuous run. Include throttle control, 2 pressure gauges, 2 quick-connect couplers, and regulator. No. 2YJ61 is a 2-stage compressor. Honda engine has low-oil shutdown.

Ingersoll Rand—100% continuous-duty cast-iron pump includes air regulator, gauge, and 2 quick disconnects to power multiple air tools.

Chicago Pneumatic—Heavy-duty and feature solid cast-iron cylinders for strength and aluminum heads for excellent cooling and long pump life. Include high-flow belt guards, loadless start, and engine idle control.


No. 4YW08


No. 39WD98



No. 1VN93

Engine HP	No. of Stages	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	(F)NPT Outlet	Engine Oil Capacity	Overall L	Overall W	Overall H	Weight	Brand	Mfr. Model	Item No.
5.5	1	8.0 gal.	11.6	125 psi	⅜"	20 oz.	45"	23"	34"	215 lb.	Jenny	K5HGA-8P	**54DH94**
	1	17 gal.	11.6	125 psi	⅜"	20 oz.	45"	23"	43"	245 lb.	Jenny	K5HGA-17P	**54DH95**
	1	8.0 gal.	11.8	135 psi	⅜"	20.0 oz	18"	18"	26"	175 lb.	Ingersoll Rand	SS3J5.5GH-WB	**4YW08**
	1	8.0 gal.	12.4	130 psi	⅜"	19.5 oz.	46"	23"	26"	200 lb.	Chicago Pneumatic	RCP5530	**39WD98**
6.5	1	8.0 gal.	13.9	125 psi	⅜"	20 oz.	44½"	18½"	26"	171 lb.	Speedaire	1VN93	**1VN93**
9.0	1	8.0 gal.	17.8	125 psi	⅜"	38 oz.	45"	23"	34"	270 lb.	Jenny	G9HGA-8P	**54DH98**
	1	17 gal.	17.8	125 psi	⅜"	38 oz.	45"	23"	43"	295 lb.	Jenny	G9HGA-17P	**54DH99**
	2	8.0 gal.	18.3	175 psi	⅜"	37 oz.	44"	26"	33"	288 lb.	Speedaire	2YJ61	**2YJ61**
	2	10 gal.	18.6	175 psi	⅜"	37.1 oz.	50"	29"	37"	300 lb.	Chicago Pneumatic	RCP908H	**39WE01**

SPEEDAIRE | Ingersoll Rand | Chicago Pneumatic

Stationary Gas Engine-Powered Air Compressors

SPEEDAIRE®

Models feature heavy-duty, 100% cast-iron, continuous-duty air compressor pump. Pneumatic idle control conserves fuel and extends the life of the pump. Tanks include tank drain, pressure gauge, and safety valves.

No. 40JL42—Has easy recoil engine with low oil shut-down.

No. 4NB85—Pneumatic idle control conserves fuel and features low-oil alert protection. Includes regulator and 2 gauges.

Nos. 5F564, 4LW38, and 6EWK7—Feature low oil shut-down, 12V alternators, and recoil start option. No. 6EWK7 also includes regulator, outlet pressure gauge, and a flexible stainless steel braided exhaust tube.

INGERSOLL RAND

Heavy-duty, 100% cast-iron, continuous-duty compressors. Corrosion-resistant powder-coated paint finish.

CHICAGO PNEUMATIC

These service truck compressors feature heavy-duty, cast-iron pumps and include oil and filters. Full 2-yr. manufacturer's warranty on compressor and engine including valves.

NO. 4KP97

Battery Tray Kit mounts to Nos. 5F564 and 4LW38 and includes steel tray, attachment hardware, battery cables, and all-weather battery cover with hold-down clamp (battery not included).



No. 4LW38



No. 6WA84


No. 39WE02

Description	For Use With	Brand	Item No.
Accessory			
Battery Tray Kit	4LGJ5, 4LW38, 5F564	Speedaire	**4KP97**

Engine HP	No. of Stages	Tank Size	Engine Brand	Engine Starter Type	Alternator Included	Max. Pressure	(F)NPT Outlet	L	Overall W	H	Brand	Mfr. Model	Item No.
5.5	1	30 gal.	Honda	Recoil	No	135 psi	½"	41"	22"	38"	Speedaire	4OJL42	**4OJL42**
9.0	2	30 gal.	Honda	Recoil	No	175 psi	⅜"	40"	18½"	43½"	Speedaire	4NB85	**4NB85**
13.0	2	30 gal.	Honda	Electric, Recoil	Yes	175 psi	½"	41"	22"	48"	Speedaire	4LW38	**4LW38**
	2	30 gal.	Honda	Electric, Recoil	Yes	175 psi	½"	45"	22"	40"	Ingersoll Rand	2475F13GH	**6WA84**
	2	30 gal.	Honda	Electric, Recoil	Yes	175 psi	¾"	44"	19"	43"	Chicago Pneumatic	RCPC1330G	**39WE02**
	2	80 gal.	Honda	Electric, Recoil	Yes	175 psi	⅜"	52"	26½"	53"	Speedaire	6EWK7	**6EWK7**
14.0	2	30 gal.	Kohler	Electric, Recoil	Yes	175 psi	½"	41"	22"	48"	Speedaire	5F564	**5F564**
	2	30 gal.	Kohler	Electric, Recoil	Yes	175 psi	½"	45 7/64"	22"	40 39/64"	Ingersoll Rand	2475F14G	**6TFH6**
	2	30 gal.	Kohler	Electric, Recoil	Yes	175 psi	¾"	44"	19"	43"	Chicago Pneumatic	RCPC1430G	**39WE03**

SPEEDAIRE

Stationary Diesel Engine-Powered Air Compressor

Dependable, oil-lubricated 2-stage pump. Complete with 12V alternator, electric start with key, manifold muffler with guard, and oil pressure warning lights. Base-mounted unit without tanks.



Engine HP	Engine Brand	Engine Starter Type	(F)NPT Outlet	Pump RPM	L	Overall W	H	Item No.
9.1	Kohler	Electric, Recoil	½"	870	39"	21"	30"	**2EPN7**

Jenny

Fire Sprinkler Air Compressors and Pumps

- 115/230V

Single stage with durable powder-coated finish.

Fire Sprinkler Air Compressors—Single-stage, splash-lubricated compressors are rugged cast-iron construction with a large flywheel for extra cooling and to ease start-up. Feature a directional air shroud to reduce pump temp., large canister intake filter with replaceable filter elements, totally enclosed heavy-duty belt guard, and an open dripproof motor with thermal overload protection.

- Max. pressure: 40 psi

Air Compressor Pumps—Cast-iron pumps have stainless steel valves and use synthetic oil for longer life. No. 35KV12 has head unloaders.

- Max. pressure: 150 psi



No. 31LC92



No. 31LC99

HP	Free Air CFM @ Max. Pressure	Phase	Amps	Tank Size	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Fire Sprinkler Air Compressors										
Base Mounted										
0.50	3.80	1	9.4/4.7	—	½"	25¾"	16¼"	18¼"	F12S-BS-115/1-ACGF	**31LC94**
1.00	7.40	1	12.5/6.3	—	½"	25¾"	16¼"	18¼"	K1S-BS-115/1-ACGK	**31LC95**
1.50	10.9	1	15.8/7.9	—	½"	25¾"	16¼"	18¼"	K15S-BS-115/1-ACGK	**31LC96**
2.00	12.4	1	21.6/10.8	—	½"	25¾"	16¼"	18¼"	K2S-BS-115/1ACGK	**31LC97**
Tank Mounted										
0.50	3.70	1	9.4/4.7	30 gal.	½"	40"	18"	33½"	F12S-30UMS-115/1	**26JY13**
1.00	7.40	1	12.5/6.3	30 gal.	½"	40"	18"	34"	K1S-30UMS-115/1	**31LC92**
1.50	10.9	1	15.8/7.9	30 gal.	½"	40"	18"	34"	K15S-30UMS-115/1	**31LC93**
2.00	10.5	1	21.3/10.7	30 gal.	½"	40"	18"	34"	K2S-30UMS-115/1	**26JY14**

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM	Oil Cap.	NPT Outlet	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Air Compressor Pumps										
⅓, 1	2.1	1200	6²¹⁄₆₄"	8 oz.	½"	10⅛"	A	1	F-PUMP	**31LC98**
1, 2	6.7	1200	6²¹⁄₆₄"	32 oz.	½"	10⅛"	A	1	K-PUMP	**31LC99**
	6.7	1200	6²¹⁄₆₄"	32 oz.	½"	10⅛"	A	1	KU-PUMP	**35KV12** *

Has head unloaders.



No. 4B242

Base-Plate Air Compressors

SPEEDAIRE

- Designed to cycle On/Off while providing continuous air with an 80/20 duty cycle
- All compressors must be hardwired
- Max. pressure: 40 psi

2-cylinder cast-iron pumps can be used in many fire sprinkler applications (check local codes and regulations). Prewired (240V) with pneumatic control package.

HP	Free Air CFM @ Max. Pressure	Phase	Input Voltage	Amps	Motor Starter No.	Thermal Unit Code	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Item No.
2.00	11.6	1	120VAC, 240VAC	17.5/8.75	—	—	½"	22½"	15½"	14¾"	**4B242**
3.00	12.3	3	200 to 240VAC, 480VAC	9.0-7.5/3.9	11V709, 11V710	1H609/3, 1H632/3	½"	22½"	15½"	14¾"	**4B243**



No. 5Z702

HP	RPM	Pump Cylinders	Bore	Stroke	Oil Cap. (oz.)
¾*	980	1	1.97	2.56	15
1	1120	1	1.97	2.56	15
1½	860	1	2.56	2.56	15
3	1050	2	2.56	2.36	24

HP	Free Air CFM @ Max. Pressure	Tank Size	Input Voltage	Amps	Phase	Overall Length	Overall Width	Overall Height	Item No.
Simplex									
0.75	2.1	30 gal.	120VAC, 240VAC	10.2/5.1	1	42½"	21¼"	38"	**5Z696**
	2.1	30 gal.	208 to 240VAC, 480VAC	3.6-3.0/1.5	3	42½"	21¼"	38"	**5Z697**
1.00	3.4	30 gal.	120VAC, 240VAC	13.4/6.7	1	42½"	21¼"	38"	**3JR83**
1.50	4.5	60 gal.	208 to 240VAC, 480VAC	4.5-4.4/2.2	3	50¾"	22¼"	40"	**5Z699**
3.00	10.1	80 gal.	208 to 240VAC, 480VAC	8.9-8.1/4.1	3	65½"	23¼"	34"	**5Z701**
Duplex									
0.75	4.2	30 gal.	208 to 240VAC, 480VAC	7.4-6.2/3.1	3	41½"	21¼"	38"	**5Z698**
1.00	6.8	30 gal.	208 to 240VAC, 480VAC	6.4-6.2/3.1	3	41½"	21¼"	38"	**3JR81**
1.50	9	80 gal.	208 to 240VAC, 480VAC	9.3-9.0/4.5	3	64¼"	22¼"	39"	**5Z700**
3.00	11.0	80 gal.	208 to 240VAC, 480VAC	18.2-16.5/8.2	3	65¼"	23¼"	34"	**5Z702**

For altitudes over 5000 ft., flow will be reduced; select 1 HP instead.

SPEEDAIRE

Climate Control Air Compressors

- 3-phase duplex units require 115V for control panel power
- Max. pressure: 90 psi
- Simplex: 70 psi On/90 psi Off
- Duplex: 70 psi On/90 psi Off (lead), 60 psi On/80 psi Off (lag)
- All compressors must be hardwired
- Horizontal tank with ¾" (F)NPT outlet and brass ball valves

Deliver published cfm at stated rpm and pressure and to be below 2 ppm in oil carryover. Use for new, replacement, or upgrade HVAC installations and instrument air applications. Simplex packages include mounted and wired magnetic starter (except 1-phase); duplex packages include mounted and wired alternator and 2 magnetic starters. For duplex models, use twice the oil capacity (Compressor Oil No. 4ZF21 is recommended, sold separately on page 2568).



No. 39CC74



No. 39CC68



No. 39CC70

Mobile Engine-Driven Air Compressors and Compressor/Generator

VANAIR MOBILE POWER SOLUTIONS

Rotary screw-type with electric start. Include a lifetime manufacturer's warranty on the compressor and are Tier 4 compliant.

Viper Air Compressors—Can easily power a 90-lb. jackhammer and include a 12V cold weather protection kit. Diesel models feature an automatic variable throttle control to help reduce fuel consumption.

Viper Air Compressor/Generator—Features multi-functioning capabilities and provides air and AC power in 1 portable unit. Can run at full load for up to 4 hr. and is easy to transport via fork lift or pallet truck.

PowerFlex™ Air Compressor/Generator—Diesel-powered model provides air and AC power in one easily transportable unit. Includes a 12V cold weather protection kit.

Air N Arc® Compressor/Generator/Welder/Battery Charge System—Multifunction systems include a 12V cold weather protection kit and 25-ft. weld and boost cables. Battery boost cables are available on Grainger.com®.

Description	Free Air CFM @ Max. Pressure	Max. Pressure	(F)NPT Outlet	Rated Watts	Fuel Type	Fuel Tank Capacity	Overall Length	Overall Width	Overall Height	Weight	Item No.
Viper Air Compressors											
Viper G60	60.0	150 psi	¾"	—	Gasoline	5.00 gal.	45⁵⁄₃₂"	23½"	29¾"	480 lb.	**39CC67**
Viper G80	59.0	100 psi	¾"	—	Gasoline	5.00 gal.	45⁵⁄₃₂"	23½"	29¾"	480 lb.	**39CC74**
Viper D60	60.0	150 psi	¾"	—	Diesel	9.00 gal.	48"	21"	33"	800 lb.	**39CC75**
Viper D80	80.0	100 psi	¾"	—	Diesel	9.00 gal.	47"	24"	38"	800 lb.	**39CC71**
Viper Air Compressor/Generator											
—	40.0	100 psi	¾"	5000/5200	Gasoline	5.00 gal.	42"	33"	34½"	685 lb.	**4TZW4**
PowerFlex™ Air Compressor/Generator											
Powerflex AE	40.0	150 psi	¾"	7000	Diesel	12.0 gal.	47³⁹⁄₆₄"	21"	33¹³⁄₃₂"	803 lb.	**39CC70**
Air N Arc® Compressor/Generator/Welder/Battery Charge System											
Air N Arc® 300 Gas	40.0	175 psi	¾"	7000	Gasoline	12.0 gal.	47"	21"	31"	700 lb.	**39CC68**
Air N Arc® 300 Diesel	40.0	175 psi	¾"	7000	Diesel	12.0 gal.	47"	21"	33"	865 lb.	**39CC73**

SPEEDAIRE Ingersoll Rand

Single-Stage Tank Mounted Air Compressors

- 60-gal. vertical tank; 30-gal. horizontal tank

Required All-Season Select Synthetic Lubricant No. 2YY83 eliminates valve carboning; sold separately on page 2568. Required Stationary Air Compressor Start-Up Kit No. 4M579 is sold separately on page 2568.

SPEEDAIRE®
- Tanks have safety valve, pressure gauge, and manual tank drain
- Thermally protected single-phase motors do not require a starter
- Cycle On/Off while providing continuous air with an 80/20 duty cycle

INGERSOLL RAND®
- Hardened steel crank shaft with precision bearings
- Splash lubrication
- Continuous duty
- Must be hardwired



No. 4B234



No. 4ME98



No. 4YW10

HP	Free Air CFM @ Max. Pressure	Max. Pressure	Phase	Input Voltage	Amps	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
Horizontal												
2.00	4.9	135 psi	1	120VAC, 240VAC	15.0/7.5	¼"	40⅝"	21⅝"	38"	Speedaire	4B234	**4B234**
3.00	9.1	135 psi	3	200 to 240VAC, 480VAC	9.0-7.5/3.9	¼"	40⅝"	21⅝"	38"	Speedaire	4B237	**4B237**
Vertical												
2.00	4.9	135 psi	1	120VAC, 240VAC	15.0/7.5	½"	26¼"	19"	52"	Speedaire	4B233	**4B233**
3.00	10.2	135 psi	1	240VAC	15.7	¾"	23"	25"	66"	Speedaire	4ME96	**4ME96**
	10.3	135 psi	1	240VAC	14.7	½"	20"	23"	66"	Ingersoll Rand	SS3L3	**4YW09**
5.00	14.2	140 psi	3	208 to 240VAC, 480VAC	13.4-13.2/6.6	¾"	23"	31"	71"	Speedaire	4ME98	**4ME98**
	14.2	140 psi	1	240VAC	21	¾"	23"	31"	71"	Speedaire	4ME97	**4ME97**
	15.5	135 psi	1	240VAC	21.5	½"	20"	30"	71"	Ingersoll Rand	SS5L5	**4YW10**

SPEEDAIRE

2-Stage Pressure-Lubricated Air Compressors

- Low rpm for long service life
- Dual control
- Pressure switch set 140 psi On/175 psi Off
- Shipped with initial fill of specially blended oil
- All compressors must be hardwired
- Max. pressure: 175 psi

Direct, positive displacement oil pump lubricates all critical internal components. Spin-on oil filter, oversized intake filter/silencer, and totally enclosed belt guard. 80/20 duty cycle. 100% duty cycle can be achieved with the use of Speedaire® Synthetic-Based Lubricant No. 1WG49, sold separately on page 2568.

Note: These units do not include motor starter.



No. 1WD90

HP	Tank Size	Free Air CFM @ Max. Pressure	(F)NPT Outlet	Phase	Input Voltage	Amps	Motor Starter No.	Thermal Unit Code	Overall Length	Overall Width	Overall Height	Item No.
Horizontal												
5	80 gal.	17.3	½"	1	208 to 240VAC	22.3/20.6	11W192	1H624/1H627	66"	22½"	49"	**4XA64**
	80 gal.	17.3	½"	3	208 to 240VAC, 480VAC	14/13.8/6.9	5PZX7	6GDX6/6GDX5	66"	22½"	49"	**1WD82**
7½	80 gal.	23.1	½"	1	208 to 240VAC	36/35	11W201	1H630/1H628	51"	22½"	49"	**4XA66**
	80 gal.	23.5	½"	3	208 to 240VAC, 480VAC	21.7/20/10	11V718	1H627/1H624	66½"	22½"	49"	**1WD86**
10	120 gal.	34.8	¾"	3	200 to 208VAC	30.8	11W205	1H628	71 25/64"	26"	52 51/64"	**1WD87**
	120 gal.	34.8	¾"	3	240VAC, 480VAC	26.8/13.4	11W205	1H628/1H618	71 25/64"	26"	52 51/64"	**1WD88**
15	120 gal.	49.0	¾"	3	240VAC, 480VAC	40.6/20.3	4DF23	1H634/1H623	71 25/64"	26"	52 51/64"	**1WD90**
Vertical												
5	80 gal.	17.3	½"	1	240VAC	23.0/21.0	11W192	1H624/1H623	35"	27"	75"	**4XA63**
	80 gal.	17.3	½"	3	208 to 240VAC, 480VAC	14/13.8/6.9	5PZX7	6GDX6/6GDX5	35"	27"	75"	**1WD80**
7½	80 gal.	23.1	½"	1	208 to 240VAC	36/35	11W201	1H630/1H628	35"	27"	75"	**4XA65**
	80 gal.	23.1	½"	3	208 to 240VAC, 480VAC	21.7/20/10	11V718	1H627/1H624	35"	27"	75"	**1WD84**

SPEEDAIRE

2-Stage Duplex Air Compressors

- Low rpm for long service life
- Must be hardwired
- Fully enclosed belt guard
- Expected pump life: 15,000 hr.
- Max. pressure: 175 psi

Allow you to maximize energy efficiency by automatically alternating between 2 compressors or by operating both simultaneously. 100% duty cycle can be achieved with use of Speedaire® Synthetic-Based lubricant No. 1WG49, sold separately on page 2568.

Note: Not for use with climate controlled systems.



No. 35WC61

HP	Tank Size	Free Air CFM @ Max. Pressure	Phase	Input Voltage	Amps	Overall Length	Overall Width	Overall Height	Item No.
5	120 gal.	32.8	1	208 to 230VAC	44	69"	32	51	**35WC60**
	120 gal.	32.8	3	208 to 230VAC, 460VAC	28.4-25.6/12.8	69"	32	51	**35WC61**
7½	120 gal.	49.0	1	208 to 230VAC	62.8	69"	32	51	**35WC62**
	120 gal.	49.0	3	208 to 230VAC, 460VAC	39.6-35.8/18	69"	32	51	**35WC63**
10	200 gal.	72.0	3	208 to 230VAC, 460VAC	54-48.8/24.4	91"	32	60	**35WC64**
15	200 gal.	100	3	208 to 230VAC, 460VAC	82.2-74.4/37.2	91"	32	60	**35WC65**



No. 4R774



No. 4M310



No. 4L977

Ingersoll Rand

Type 30 2-Stage Air Compressors

- Expected pump life: 15,000 hr.
- 100% continuous duty
- tank with manual drain and discharge isolation valve
- Must be hardwired
- Max. pressure: 175 psi

Cast-iron compressors feature totally enclosed belt guard and splash lubrication. 5- and 7½-HP models have automatic Start/Stop control. 10-HP vertical models have automatic Start/Stop control and oil sight glass. 15-HP models have dual control for automatic Start/Stop or constant speed operation and Low Oil Guard Shutdown Switch No. 4ZJ95.

Note: Motor starter is required for Nos. 4R778 and 4R774.

FULLY PACKAGED

Compressors include air-cooled aftercooler to remove additional moisture, low oil protection switch to prevent pump from running dry, and electronic drain valve.

Mfr. Model	Item No.
Low Oil Guard	
32276313	**4ZJ95**

HP	Input Voltage	Amps	Phase	Tank Size	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Base Model										
Horizontal										
10.0	200VAC	31	3	120 gal.	¾"	72"	29"	52"	2545E10V	**4TN87**
	240VAC	27	3	120 gal.	¾"	72"	29"	52"	2545E10V	**4MJ04**
	480VAC	13.3	3	120 gal.	¾"	72"	29"	52"	2545E10V	**4MJ05**
15.0	200VAC	48.3	3	120 gal.	1"	72"	29"	52"	7100E15	**4R778**
	240VAC, 480VAC	42/21	3	120 gal.	1"	72"	29"	52"	7100E15	**4R774**
Vertical										
5.00	200VAC	17.3	3	60 gal.	½"	32"	30"	69"	2340L5	**4L976**
	200VAC	17.5	3	80 gal.	½"	32"	24"	67"	2340N5	**1WF61**
	230VAC	12.3	3	60 gal.	½"	33⅛"	20"	69"	2340L5A	**16V888**
	240VAC	28	1	60 gal.	½"	32"	30"	69"	2340L5	**4L977**
	240VAC	28	1	80 gal.	½"	48"	40"	76"	2340N5	**1WF59**
	240VAC	15.3	3	80 gal.	½"	31½"	20"	67"	2340N5A	**16V898**
	480VAC	7.6	3	60 gal.	½"	32"	20"	69"	2340L5B	**16V889**
	480VAC	6.17	3	80 gal.	½"	37⅛"	24"	68½"	2340N5B	**16V899**
7.50	200VAC	25.3	3	80 gal.	¾"	37"	28"	70"	2475N7.5	**4M361**
	240VAC	40	1	80 gal.	¾"	37"	28"	70"	2475N7.5	**4M310**
	240VAC	22	3	80 gal.	¾"	36½"	24"	70"	2475N7.5A	**16V886**
	480VAC	11	3	80 gal.	¾"	36½"	24"	70"	2475N7.5B	**16V887**
10.0	200VAC	31	3	120 gal.	1"	38¼"	32"	82"	2545K10V	**1WF64**
	240VAC	27	3	120 gal.	¾"	38¼"	32"	82"	2545K10V	**1WF63**
	480VAC	13.3	3	120 gal.	1"	38¼"	32"	82"	2545K10V	**1WF65**
Fully Packaged, Splash Lubricated										
Horizontal										
10.0	200VAC	28.1	3	120 gal.	¾"	72"	30"	56"	2545E10FP-200-3	**3FRU6**
	240VAC	24.4	3	120 gal.	¾"	70 7/16"	27 13/16"	49 13/16"	2545E10A	**16V892**
	460VAC	14	3	120 gal.	¾"	70 7/16"	27 13/16"	49 13/16"	2545E10-P	**16V893**
15.0	240VAC	37.1	3	120 gal.	1"	70 7/16"	31 11/16"	57 1/16"	7100E15A	**16V896**
	480VAC	18.6	3	120 gal.	1"	70 7/16"	31 11/16"	57 1/16"	7100E15B	**16V897**
Vertical										
5.00	200VAC	14.4	3	80 gal.	¾"	38⅛"	24"	70⅛"	2475N5FP-200-3	**3FRU3**
	240VAC	22.9	1	80 gal.	¾"	38⅛"	24"	70⅛"	2475N5FP-230-1	**3FRU2**
	240VAC	12.5	3	80 gal.	¾"	38⅛"	24"	70⅛"	2475N5-P-230	**20Y778**
	480VAC	6.25	3	80 gal.	¾"	38⅛"	24"	70⅛"	2475N5-P-460	**20Y779**
7.50	200VAC	21.1	3	80 gal.	¾"	38⅛"	24"	70⅛"	2475N7.5-200	**20Y780**
	240VAC	32.0	1	80 gal.	¾"	38⅛"	24"	70⅛"	2475N7.5FP-230-1	**3FRU4**
	240VAC	22	3	80 gal.	¾"	36 5/16"	24"	70"	2475N7.5C	**16V890**
	480VAC	9.18	3	80 gal.	¾"	36 5/16"	24"	70"	2475N7.5D	**16V891**
10.0	240VAC	24.4	3	120 gal.	1"	44 5/16"	30"	76"	2545K10A	**16V894**
	480VAC	12.2	3	120 gal.	1"	44 5/16"	30"	76"	2545K10B	**16V895**



No. 35WC53



No. 35WC47



No. 35WC55

SPEEDAIRE

2-Stage Air Compressors

- Expected pump life: 15,000 hr., except where noted
- 100% duty cycle (with use of synthetic oil)
- Must be hardwired
- Max. pressure: 175 psi

Deliver higher pressure than 1-stage models with low RPM for long life. Feature a totally enclosed, safety-designed belt guard. All models include an oil sight glass, pressure gauge, and pressure safety valve.

FULLY PACKAGED

The included air-cooled aftercooler can remove up to 60% of moisture from compressed air. The automatic tank drain helps remove water from the tank before it gets carried into the air distribution system. Vibration isolators help reduce operating noise and vibrational stress on the tank.

HP	Tank Size	Phase	Input Voltage	Amps	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	BASE MODEL Item No.	FULLY PACKAGED Item No.
2-Stage Air Compressors, General Duty, 12,000 hr. Pump Life										
Vertical										
5.00	80 gal.	1	230VAC	22	¾"	35"	27"	71"	**35WC82** *	—
	80 gal.	3	208 to 230VAC	14.2-12.8	¾"	35"	27"	71"	**35WC83** *	—
2-Stage Air Compressors, Industrial Duty, 15,000 hr. Pump Life										
Horizontal										
5.00	80 gal.	3	208 to 230VAC, 460VAC	14.2-12.8/6.4	¾"	63"	21"	46"	**35WC41**	—
	80 gal.	1	208 to 230VAC	22	¾"	63	21	46	**35WC84**	**35WC44**
	80 gal.	3	208 to 230VAC, 460VAC	14.2-12.8/6.4	¾"	63	21	46	—	**35WC46**
7.50	80 gal.	3	208 to 230VAC, 460VAC	19.8-17.9/9	¾"	63"	21"	46"	**35WC49**	**35WC52**
10.0	120 gal.	3	208 to 230VAC, 460VAC	27-24.4/12.2	¾"	69"	25	54	**35WC53**	—
	120 gal.	3	200VAC	28.1	¾"	69"	25"	54"	**35WC57**	—
	120 gal.	3	208 to 230VAC, 460VAC	27-24.4/12.2	¾"	69"	25"	54	—	**35WC55**
	120 gal.	3	200VAC	28.1	¾"	69"	25"	54	—	**35WC58**
15.0	120 gal.	3	208 to 230VAC, 460VAC	41.1-37.2/18.6	¾"	69"	25"	54"	**35WC54**	**35WC56**
	120 gal.	3	200VAC	42.8	¾"	69"	25	54	**35WC59**	—
20.0	120 gal.	3	208 to 230VAC, 460VAC	54.6-49.4/24.7	1"	72	38	64	—	**35WC71**
25.0	120 gal.	3	208 to 230VAC, 460VAC	66.1-59.8/29.9	1"	72	38	64	**35WC70**	**35WC72**
30.0	120 gal.	3	208 to 230VAC, 460VAC	78.3-70.8/35.4	1"	72	38	64	—	**35WC73**
Vertical										
5.00	80 gal.	1	208 to 230VAC	22	¾"	35"	27"	71"	**35WC40**	**35WC43**
	80 gal.	3	208 to 230VAC, 460VAC	14.2-12.8/6.4	¾"	35	27	71"	**35WC42**	**35WC45**
7.50	80 gal.	1	208 to 230VAC	31.4	¾"	35"	27"	71"	**35WC47**	**35WC50**
	80 gal.	3	208 to 230VAC, 460VAC	19.8-17.9/9	¾"	35	27	71"	**35WC48**	**35WC51**
10.0	90 gal.	3	200VAC	28.1	¾"	52"	24	69"	**35WC66**	—
	90 gal.	3	208 to 230VAC, 460VAC	27-24.4/12.2	¾"	52"	30"	69"	**35WC67**	—
	90 gal.	3	208 to 230VAC, 460VAC	27-24.4/12.2	¾"	52"	24"	69"	—	**35WC68**

** NEMA 1 starter not included.*

SPEEDAIRE

Rotary Screw Compressors

- Max pressure: 150 psi
- 100% continuous duty
- Fully integrated air ends
- Must be hardwired

Feature 100% duty cycle, simple maintenance with easy-to-access filters, and a rugged motor and pump for long life.

Enclosed—Time delay shut down allows compressor to continue to run for a predetermined time to reduce amp spikes from motor starts.

- Decibel rating: from 68 to 74dB
- High pressure/temperature shutdowns
- Automatic tank drain included

Open Frame Horizontal—The open frame design eases maintenance and allows for a lower operating temperature to help extend life of electrical components.

- Decibel rating: from 72 to 78dB
- Manual tank drain

Open Frame Vertical—Offer the same benefits as open frame horizontal models, but require less floor space.

- Decibel rating: from 72 to 74dB
- Manual tank drain

HP	Phase	Input Voltage	Full Load Amps	Tank Size	(F)NPT Outlet	Overall Length	Overall Depth	Overall Height	Item No.
Enclosed									
5	1	240VAC	25.0	80 gal.	¾"	64"	21"	46"	**40HU80**
	3	208VAC	16.2	80 gal.	¾"	64"	21"	46"	**40HU58**
	3	240VAC	14.8	80 gal.	¾"	64"	21"	46"	**40HU48**
	3	480VAC	7.4	80 gal.	¾"	64"	21"	46"	**40HU30**
7.5	1	240VAC	34.0	80 gal.	¾"	64"	21"	46"	**40HU65**
	3	208VAC	21.8	80 gal.	¾"	64"	21"	46"	**40HU70**
	3	240VAC	19.9	80 gal.	¾"	64"	21"	46"	**40HU31**
	3	480VAC	10.0	80 gal.	¾"	64"	21"	46"	**40HU59**
10	3	208VAC	29.0	80 gal.	¾"	64"	21"	46"	**40HU84**
	3	240VAC	26.4	80 gal.	¾"	64"	21"	46"	**40HU91**
	3	480VAC	13.2	80 gal.	¾"	64"	21"	46"	**40HU73**
15	3	208VAC	43.1	80 gal.	¾"	64"	21"	46"	**40HU47**
	3	240VAC	29.2	80 gal.	¾"	64"	21"	46"	**40HU86**
	3	480VAC	19.6	80 gal.	¾"	64"	21"	46"	**40HU36**
20	3	208VAC	56.6	120 gal.	1"	69"	26"	54"	**40HU79**
	3	240VAC	51.4	120 gal.	1"	69"	26"	54"	**40HU40**
	3	480VAC	25.7	120 gal.	1"	69"	26"	54"	**40HU85**
25	3	208VAC	68.1	120 gal.	1"	69"	26"	54"	**40HU57**
	3	240VAC	61.8	120 gal.	1"	69"	26"	54"	**40HU43**
	3	480VAC	30.9	120 gal.	1"	69"	26"	54"	**40HU82**
Open Frame Horizontal									
5	1	240VAC	25.0	80 gal.	¾"	64"	21"	46"	**40HU90**
	3	208VAC	16.2	80 gal.	¾"	64"	21"	46"	**40HU77**
	3	240VAC	14.8	80 gal.	¾"	64"	21"	46"	**40HU66**
	3	480VAC	7.4	80 gal.	¾"	64"	21"	46"	**40HU78**
7.5	1	240VAC	34.0	80 gal.	¾"	64"	21"	46"	**40HU51**
	3	208VAC	21.8	80 gal.	¾"	64"	21"	46"	**40HU89**
	3	240VAC	19.9	80 gal.	¾"	64"	21"	46"	**40HU33**
	3	480VAC	10.0	80 gal.	¾"	64"	21"	46"	**40HU52**
10	3	208VAC	29.0	80 gal.	¾"	64"	21"	46"	**40HU32**
	3	240VAC	26.4	80 gal.	¾"	64"	21"	46"	**40HU60**
	3	480VAC	13.2	80 gal.	¾"	64"	21"	46"	**40HU38**
15	3	208VAC	43.1	80 gal.	¾"	64"	21"	46"	**40HU61**
	3	240VAC	39.2	80 gal.	¾"	64"	21"	46"	**40HU81**
	3	480VAC	19.6	80 gal.	¾"	64"	21"	46"	**40HU64**
20	3	208VAC	56.4	120 gal.	1"	69"	26"	54"	**40HU92**
	3	240VAC	51.4	120 gal.	1"	69"	26"	54"	**40HU37**
	3	480VAC	25.7	120 gal.	1"	69"	26"	54"	**40HU29**
25	3	208VAC	68.1	120 gal.	1"	69"	26"	54"	**40HU56**
	3	240VAC	61.8	120 gal.	1"	69"	26"	54"	**40HU88**
	3	480VAC	30.9	120 gal.	1"	69"	26"	54"	**40HU44**
Open Frame Vertical									
5	1	240VAC	25.0	90 gal.	¾"	38"	23"	67"	**40HU35**
	3	208VAC	17.2	90 gal.	¾"	38"	23"	67"	**40HU54**
	3	240VAC	14.8	90 gal.	¾"	38"	23"	67"	**40HU87**
	3	480VAC	7.4	90 gal.	¾"	38"	23"	67"	**40HU75**
7.5	1	240VAC	34.0	90 gal.	¾"	38"	23"	67"	**40HU28**
	3	208VAC	21.8	90 gal.	¾"	38"	23"	67"	**40HU42**
	3	240VAC	19.9	90 gal.	¾"	38"	23"	67"	**40HU63**
	3	480VAC	10.0	90 gal.	¾"	38"	23"	67"	**40HU74**
10	3	208VAC	290	90 gal.	¾"	38"	23"	67"	**40HU46**
	3	240VAC	26.4	90 gal.	¾"	38"	23"	67"	**40HU72**
	3	480VAC	13.2	90 gal.	¾"	38"	23"	67"	**40HU49**



No. 40HU73



No. 40HU77



No. 40HU63

Rotary Screw Compressors

Chicago Pneumatic

20 to 50 HP models with dryer also include 1 coalescing filter.

QRS Series—Designed for continuous-duty operation at full compressor output without affecting compressor life. The 61 to 74dB sound level allows indoor installation.

- Max. pressure: 150 psi (5 to 7.5 HP, 10 HP with 60 gal. tank); 125 psi (10 HP with 120 gal. tank, 15 to 30 HP)
- Ambient temp.: 34°F to 104°F
- Belt drive

CPC, CPD, and CPBg Series—Designed with a low sound enclosure and feature whisper quiet operation, rapid single-panel maintenance, Wye-delta, reduced voltage start, and an electronic control unit that provides energy saving operation with intelligent shutdown. The 70 to 78 dB sound level allows indoor installation. Base mount.

- Max. pressure: 125 psi
- Ambient temp. 32°F to 104°F
- Gear drive: 40, 50, and 100 HP; belt drive: 60 and 75 HP

Note: See page 2567 for Maintenance Kits.

HP	Phase	Input Voltage	Full Load Amps	Free Air CFM @ Max. Pressure	Tank Size	(F)NPT Outlet	Overall Length	Overall Depth	Overall Height	Mfr. Model	Item No.
QRS Series, Horizontal Tank											
5	1	230VAC	26.7	16.6	60 gal.	½"	56"	22"	49.4"	QRS 5 HP	**40JE21**
	3	208 to 230VAC, 460VAC	18.4/15.8/7.9	16.6	60 gal.	½"	56"	22"	49.4"	QRS 5 HP	**40JE65**
7.5	1	230VAC	36	21.2	60 gal.	½"	56"	22"	49.4"	QRS 7.5 HP	**40JE66**
	3	208 to 230VAC, 460VAC	21.5/19.5/9.9	21.2	60 gal.	½"	56"	22"	49.4"	QRS 7.5 HP	**40JE80**
10	3	208 to 230VAC, 460VAC	25.26/22.84/11.42	39.6	132 gal.	½"	76.8"	28.3"	57.8"	QRS 10 HP	**40JE30**
	3	208 to 230VAC, 460VAC	32.2/28/14	33	60 gal.	¾"	59"	25"	54"	QRSM 10 HP	**40JE87**
15	3	208 to 230VAC, 460VAC	33.59/30.37/15.19	55.9	120 gal.	½"	76.8"	28.3"	57.8"	QRS 15 HP	**40JE48**
20	3	208 to 230VAC, 460VAC	58/52/26	76	120 gal.	1"	71"	32"	73"	QRS 20 HP	**40JE76**
25	3	208 to 230VAC, 460VAC	70/62/31	92	120 gal.	1"	71"	32"	73"	QRS 25 HP	**40JE85**
30	3	208 to 230VAC, 460VAC	88/80/40	110	120 gal.	1"	71"	32"	73"	QRS 30 HP	**40JE54**
QRS Series with Dryer, Horizontal Tank											
5	1	230VAC	26.7	16.6	60 gal.	½"	56"	22"	49.4"	QRS 5 HPD	**40JE22**
	3	208 to 230VAC, 460VAC	18.4/15.8/7.9	16.6	60 gal.	½"	56"	22"	49.4"	QRS 5 HPD	**40JE26**
7.5	1	230VAC	36	21.2	60 gal.	½"	56"	22"	49.4"	QRS 7.5 HPD	**40JE67**
	3	208 to 230VAC, 460VAC	21.5/19.5/9.9	21.2	60 gal.	½"	56"	22"	49.4"	QRS 7.5 HPD	**40JE90**
10	3	208 to 230VAC, 460VAC	25.26/22.84/11.42	39.6	120 gal.	½"	76.8"	28.3"	57.8"	QRS 10 HPD	**40JE58**
	3	208 to 230VAC, 460VAC	32.2/28/14	33	60 gal.	¾"	59"	25"	54"	QRSM 10 HPD	**40JE64**
15	3	208 to 230VAC, 460VAC	33.59/30.37/15.19	55.9	120 gal.	½"	76.8"	28.3"	57.8"	QRS 15 HPD	**40JE79**
20	3	208 to 230VAC, 460VAC	58/52/26	76	120 gal.	1"	71"	32"	73"	QRS 20 HPD	**40JE39**
25	3	208 to 230VAC, 460VAC	70/62/31	92	120 gal.	1"	71"	32"	73"	QRS 25 HPD	**40JE28**
30	3	208 to 230VAC, 460VAC	88/80/40	110	132 gal.	1"	71"	32"	73"	QRS 30 HPD	**40JE75**
CPC, CPD & CPBg Series, Tankless											
40	3	240VAC, 480VAC	107/54.7	175.4	—	1¼"	53.1"	30.7"	62.2"	CPBg 40 HP	**40JE81**
50	3	240VAC, 480VAC	107/54.7	204.5	—	1¼"	53.1"	30.7"	62.2"	CPBg 50 HP	**40JE99**
60	3	230VAC	179.6	261	—	1½"	51"	42"	64"	CPC 60	**40JE83**
	3	460VAC	89.8	261	—	1½"	51"	42"	64"	CPC 60	**40JE74**
75	3	230VAC	209.3	305	—	2"	56"	42"	64"	CPD 75	**40JE84**
	3	460VAC	104.7	305	—	2"	56"	42"	64"	CPD 75	**40JE44**
100	3	230VAC	272.5	402	—	2"	75.7"	41.7"	64.7"	CPD 100 G	**40JE24**
	3	460VAC	136.3	402	—	2"	75.7"	41.7"	64.1"	CPD 100 G	**40JE53**
CPBg Series with Dryer, Tankless											
40	3	240VAC, 480VAC	107/54.7	175.4	—	1¼"	72"	30.7"	62.2"	CPBg 40 HPD	**40JE72**
50	3	240VAC, 480VAC	107/54.7	204.5	—	1¼"	53.1"	30.7"	62.2"	CPBg 50 HPD	**40JE57**



No. 40JE79


No. 40JE57



No. 53RU34



No. 40AY71



No. 1ZPT7

Ingersoll Rand

Rotary Screw Compressors

Note: For Air Compressors over 50HP, go to Grainger.com® and search by "50HP Air Compressors".

R-Series Premium Tank-Mount—Feature premium-efficiency IE3 motors, sequential cooling system, and a standard microprocessor controller. PTFE stainless steel braided oil hoses, O-ring face seals, and leak-free air ends. 69dB sound level.

- Soft-starting star delta starters

UP6-Series Tank-Mount—Reliable design with dual controls and high-efficiency IE2 motors. 65 to 69dB sound level.

- Dedicated voltage ODP motors
- Full voltage starters

R-Series and UP6-Series Total Air System —Integrated compressor and dryer systems provide clean, dry air. Each horizontal tank-mounted unit includes a rotary screw compressor, refrigerated air dryer, moisture separator, coalescing and particulate filtration, receiver tank, and controls.

HP	Input Voltage	Phase	Full Load Amps	Max. Pressure	Tank Size	(F)NPT Outlet	Overall Length	Overall Depth	Overall Height	Mfr. Model	Item No.
R-Series Premium Tank-Mount											
5.00	230VAC	1	32.0	125 psi	80 gal.	¾"	68"	29"	68"	R4I-A125/80-230-1	**40AY68**
	200VAC	3	18.7	125 psi	80 gal.	¾"	68"	29"	68"	R4I-A125/80-200-3	**40AY74**
	230VAC	3	17.0	125 psi	80 gal.	¾"	68"	29"	68"	R4I-A125/80-230-3	**40AY58**
	460VAC	3	9.0	125 psi	80 gal.	¾"	68"	29"	68"	R4I-A125/80-460-3	**40AY84**
7.50	230VAC	1	44.0	125 psi	80 gal.	¾"	68"	29"	68"	R5.5I-A125/80-230-1	**40AY83**
	200VAC	3	26.6	125 psi	80 gal.	¾"	68"	29"	68"	R5.5I-A125/80-200-3	**40AY72**
	230VAC	3	24.0	125 psi	80 gal.	¾"	68"	29"	68"	R5.5I-A125/80-230-3	**40AY55**
	460VAC	3	12.0	125 psi	80 gal.	¾"	68"	29"	68"	R5.5I-A125/80-460-3	**40AY79**
10.0	460VAC	3	16.0	125 psi	80 gal.	¾"	68"	29"	68"	R7.5I-A125/80-460-3	**40AY69**
	230VAC	3	32.0	125 psi	80 gal.	¾"	68"	29"	68"	R7.5I-A125/80-230-3	**40AY75**
	208VAC	3	34.7	125 psi	80 gal.	¾"	68"	29"	68"	R7.5I-A125/80-200-3	**40AY81**
15.0	230VAC	3	46.0	125 psi	120 gal.	¾"	72"	29"	72"	R11I-A125/120-230-3	**40AY67**
	460VAC	3	24.0	125 psi	120 gal.	¾"	72"	29"	72"	R11I-A125/120-460-3	**40AY86**
	208VAC	3	51.2	125 psi	120 gal.	¾"	72"	29"	72"	R11I-A125/120-200-3	**40AY90**
40.0	230VAC	3	122.0	125 psi	—	1½"	77"	42"	61"	RS30i-A125/230	**53RU34**
	460VAC	3	61.0	125 psi	—	1½"	77"	42"	61"	RS30i-A125/460	**53RU35**
	575VAC	3	49.0	125 psi	—	1½"	77"	42"	61"	RS30i-A125/575	**53RU36**
50.0	230VAC	3	139.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125/230	**53RU40**
	460VAC	3	70.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125/460	**53RU41**
	575VAC	3	56.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125/575	**53RU42**
UP6-Series Tank-Mount											
5.00	230VAC	1	23.5	125 psi	80 gal.	¾"	71"	29"	57"	UP6-5-125/80-230-1	**6WA78**
	200VAC	3	15.4	125 psi	80 gal.	¾"	71"	29"	57"	UP6-5-125/80-200-3	**6WA80**
	230VAC	3	13.5	125 psi	80 gal.	¾"	71"	29"	57"	UP6-5-125/80-230-3	**6WA79**
	460VAC	3	6.7	125 psi	80 gal.	¾"	71"	29"	57"	UP6-5-125/80-460-3	**6WA81**
7.50	230VAC	1	34.1	125 psi	80 gal.	¾"	71"	29"	56.3"	UP6-7.5-125/80-230-1	**4RU64**
	200VAC	3	22	125 psi	80 gal.	¾"	71"	29"	56.3"	UP6-7.5-125/80-200-3	**4RU65**
	230VAC	3	19.6	125 psi	80 gal.	¾"	71"	29"	56.3"	UP6-7.5-125/80-230-3	**4RU66**
	460VAC	3	9.8	125 psi	80 gal.	¾"	71"	29"	56.3"	UP6-7.5-125/80-460-3	**4RU67**
10.0	200VAC	3	30.3	125 psi	80 gal.	¾"	71"	29"	57"	UP6-10-125/80-200-3	**4RU68**
	240VAC	3	26.4	125 psi	80 gal.	¾"	71"	29"	57"	UP6-10-125/80-230-3	**6WA82**
	480VAC	3	13.2	125 psi	80 gal.	¾"	71"	29"	57"	UP6-10-125/80-460-3	**4RU69**
15.0	200VAC	3	43.1	125 psi	120 gal.	¾"	75"	29"	61"	UP6-15C-125/120-200-3	**4RU70**
	230VAC	3	37.4	125 psi	120 gal.	¾"	75"	29"	61"	UP6-15C-125/120-230-3	**6WA83**
	460VAC	3	18.7	125 psi	120 gal.	¾"	75"	29"	61"	UP6-15C-125/120-460-3	**4RU71**
R-Series Tank-Mount Total Air System (Premium Compressor with Dryer and Filtration Package)											
5.00	230VAC	1	39.0	135 psi	80 gal.	¾"	68"	28"	68"	R4I-A135-TAS/80-230-1	**40AY62**
	230VAC	3	24.0	135 psi	80 gal.	¾"	68"	28"	68"	R4I-A135-TAS/80-230-3	**40AY78**
	460VAC	3	12.0	135 psi	80 gal.	¾"	68"	28"	68"	R4I-A135-TAS/80-460-3	**40AY82**
	208VAC	3	25.8	135 psi	80 gal.	¾"	68"	28"	68"	R4I-A135-TAS/80-200-3	**40AY89**
7.50	230VAC	1	50.0	135 psi	80 gal.	¾"	68"	28"	68"	R5.5I-A135-TAS/80-230-1	**40AY59**
	208VAC	3	33.8	135 psi	80 gal.	¾"	68"	28"	68"	R5.5I-A135-TAS/80-200-3	**40AY64**
	230VAC	3	31.0	135 psi	80 gal.	¾"	68"	28"	68"	R5.5I-A135-TAS/80-230-3	**40AY76**
	460VAC	3	15.0	135 psi	80 gal.	¾"	68"	28"	68"	R5.5I-A135-TAS/80-460-3	**40AY88**
10.0	230VAC	3	38.0	135 psi	80 gal.	¾"	68"	28"	68"	R7.5I-A135-TAS/80-230-3	**40AY57**
	208VAC	3	41.8	135 psi	80 gal.	¾"	68"	28"	68"	R7.5I-A135-TAS/80-200-3	**40AY63**
	460VAC	3	19.0	135 psi	80 gal.	¾"	68"	28"	68"	R7.5I-A135-TAS/80-460-3	**40AY80**
15.0	208VAC	3	58.3	135 psi	120 gal.	¾"	72"	28"	72"	R11I-A135-TAS/120-200-3	**40AY54**
	230VAC	3	53.0	135 psi	120 gal.	¾"	72"	28"	72"	R11I-A135-TAS/120-230-3	**40AY66**
	460VAC	3	26.0	135 psi	120 gal.	¾"	72"	28"	72"	R11I-A135-TAS/120-460-3	**40AY71**
40.0	230VAC	3	128.0	118 psi	—	1½"	77"	42"	61"	RS30I-A118 TAS/230	**53RU37**
	460VAC	3	64.0	118 psi	—	1½"	77"	42"	61"	RS30I-A118 TAS/460	**53RU38**
	575VAC	3	52.0	118 psi	—	1½"	77"	42"	61"	RS30I-A118 TAS/575	**53RU39**
50.0	230VAC	3	146.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125 TAS/230	**53RU43**
	460VAC	3	73.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125 TAS/460	**53RU44**
	575VAC	3	59.0	125 psi	—	1½"	77"	42"	61"	RS37i-A125 TAS/575	**53RU45**
UP6-Series Tank-Mount Total Air System (Compressor with Dryer & Filtration Package)											
5.00	230VAC	1	23.5	150 psi	80 gal.	¾"	71"	29"	57"	UP6-5TAS-150/80-230-1	**1ZPR3**
	200VAC	3	15.4	150 psi	80 gal.	¾"	71"	29"	57"	UP6-5TAS-150/80-200-3	**1ZPR4**
	230VAC	3	13.2	150 psi	80 gal.	¾"	71"	29"	57"	UP6-5TAS-150/80-230-3	**1ZPR5**
	460VAC	3	6.7	150 psi	80 gal.	¾"	71"	29"	57"	UP6-5TAS-150/80-460-3	**1ZPR6**
7.50	230VAC	1	34.1	150 psi	80 gal.	¾"	71"	29"	57"	UP6-7.5TAS-150/80-230-1	**1ZPR7**
	200VAC	3	22	150 psi	80 gal.	¾"	71"	29"	57"	UP6-7.5TAS-150/80-200-3	**1ZPR8**
	230VAC	3	19.6	150 psi	80 gal.	¾"	71"	29"	57"	UP6-7.5TAS-150/80-230-3	**1ZPR9**
	460VAC	3	9.8	150 psi	80 gal.	¾"	71"	29"	57"	UP6-7.5TAS-150/80-460-3	**1ZPT1**
10.0	200VAC	3	27.5	145 psi	80 gal.	¾"	71"	29"	57"	UP6-10TAS-150/80-200-3	**1ZPT2**
	230VAC	3	26	145 psi	80 gal.	¾"	71"	29"	57"	UP6-10TAS-150/80-230-3	**1ZPT3**
	460VAC	3	13.2	150 psi	80 gal.	¾"	71"	29"	67"	UP6TAS-10-150/80-460-3	**1ZPT4**
15.0	200VAC	3	43.1	150 psi	120 gal.	¾"	75"	29"	61"	UP6-15CTAS-150/120-200-3	**1ZPT5**
	230VAC	3	37.4	150 psi	120 gal.	¾"	75"	29"	61"	UP6-15CTAS-150/120-230-3	**1ZPT6**
	460VAC	3	18.7	150 psi	120 gal.	¾"	75"	29"	61"	UP6-15CTAS-150/120-460-3	**1ZPT7**

SPEEDAIRE | Ingersoll Rand | Chicago Pneumatic

Rotary Screw Maintenance Kits and Accessories

Additional maintenance kits and accessories available on Grainger.com®.

SPEEDAIRE®

Compressor Oil—Extends service intervals up to 4000 hr.

Maintenance Kits—Regular use of these easy-to-use kits and accessories can help maximize the life of your compressor.

INGERSOLL RAND®

Ultra Coolant—Provides 8000 hr. or 2 yr. of operation, extending maintenance intervals. Reference owner's manual to determine proper coolant type.

Compressor Oil—Reference owner's manual and select oil based on service interval.

- Rotair—2000-hr. mineral-based oil
- Rotair Plus—4000-hr. blended oil

Maintenance Kits—Provide the required filters, fluids, and parts to help optimize your compressor's performance and enhance equipment longevity. Compressor oil not included.







Description	For Use With	Item No.
Speedaire®		
Air Filter Element	5 and 7.5 HP Units: 40HU28, 40HU30, 40HU31, 40HU33, 40HU35, 40HU42, 40HU48, 40HU51, 40HU52, 40HU54, 40HU56, 40HU58, 40HU59, 40HU63, 40HU66, 40HU70, 40HU74, 40HU75, 40HU77, 40HU78, 40HU80, 40HU87, 40HU89, 40HU90	40HU39
	10 and 15 HP Units: 40HU32, 40HU36, 40HU38, 40HU46, 40HU47, 40HU49, 40HU60, 40HU61, 40HU64, 40HU72, 40HU73, 40HU81, 40HU84, 40HU86, 40HU91	40HU50
	20 and 25 HP Units: 40HU29, 40HU37, 40HU40, 40HU43, 40HU44, 40HU56, 40HU57, 40HU79, 40HU82, 40HU85, 40HU88, 40HU92	40HU62
Compressor Oil, Synthetic Oil, 1 gal.	All Speedaire Rotary Screw Compressors	40HU83
Oil Separator Filter	5 and 7.5 HP Units: 40HU28, 40HU30, 40HU31, 40HU33, 40HU35, 40HU42, 40HU48, 40HU51, 40HU52, 40HU54, 40HU56, 40HU58, 40HU59, 40HU63, 40HU66, 40HU70, 40HU74, 40HU75, 40HU77, 40HU78, 40HU80, 40HU87, 40HU89, 40HU90	40HU76
	10 and 15 HP Units: 40HU32, 40HU36, 40HU38, 40HU46, 40HU47, 40HU49, 40HU60, 40HU61, 40HU64, 40HU72, 40HU73, 40HU81, 40HU84, 40HU86, 40HU91	40HU71
	20 and 25 HP Units: 40HU29, 40HU37, 40HU40, 40HU43, 40HU44, 40HU56, 40HU57, 40HU79, 40HU82, 40HU85, 40HU88, 40HU92	40HU41
Pump Oil Filter	5 to 15 HP Units: 40HU28, 40HU30, 40HU31, 40HU32, 40HU33, 40HU35, 40HU36, 40HU38, 40HU42, 40HU46, 40HU47, 40HU48, 40HU49, 40HU51, 40HU52, 40HU54, 40HU58, 40HU59, 40HU60, 40HU61, 40HU63, 40HU64, 40HU66, 40HU70, 40HU72, 40HU73, 40HU74, 40HU75, 40HU77, 40HU78, 40HU80, 40HU81, 40HU84, 40HU86, 40HU87, 40HU89, 40HU90, 40HU91	40HU53
	20 and 25 HP Units: 40HU29, 40HU37, 40HU40, 40HU43, 40HU44, 40HU56, 40HU57, 40HU79, 40HU82, 40HU85, 40HU88, 40HU92	40HU45
Rotary Screw Maintenance Kit (See Grainger.com® for Kit Contents)	5 and 7.5 HP Units: 40HU28, 40HU30, 40HU31, 40HU33, 40HU35, 40HU42, 40HU48, 40HU51, 40HU52, 40HU54, 40HU56, 40HU58, 40HU59, 40HU63, 40HU66, 40HU70, 40HU74, 40HU75, 40HU77, 40HU78, 40HU80, 40HU87, 40HU89, 40HU90	40HU67
	10 and 15 HP Units: 40HU32, 40HU36, 40HU38, 40HU46, 40HU47, 40HU49, 40HU60, 40HU61, 40HU64, 40HU72, 40HU73, 40HU81, 40HU84, 40HU86, 40HU91	40HU34
	20 and 25 HP Units: 40HU29, 40HU37, 40HU40, 40HU43, 40HU44, 40HU56, 40HU57, 40HU79, 40HU82, 40HU85, 40HU88, 40HU92	40HU55
Ingersoll Rand®		
Air/Oil Separator	5 to 15 HP R and UP6 Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	4VE84
	15 to 50 HP UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 6WA82, 53RU34, 53RU35, 53RU40, 53RU41	4VE85
Compressor V-Belt	5 and 7.5 HP R-Series Units: 40AY55, 40AY58, 40AY59, 40AY62, 40AY64, 40AY68, 40AY72, 40AY74, 40AY76, 40AY78, 40AY79, 40AY82, 40AY83, 40AY84, 40AY88, 40AY89, 46Z608	40AY73
	5 and 7.5 HP UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 6WA78, 6WA79, 6WA80, 6WA81	6WA85
	7.5 HP UP6-Series Units: 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 4RU64, 4RU65, 4RU66, 4RU67	4VE90
	10 HP R-Series Units: 40AY57, 40AY63, 40AY69, 40AY75, 40AY80, 40AY81	40AY87
	10 HP UP6-Series Units: 1ZPT2, 1ZPT3, 4RU68, 4RU69, 6WA82	4VE88
	15 HP R-Series Units: 40AY54, 40AY66, 40AY67, 40AY71, 40AY86, 40AY90	40AY70
	15 HP UP6-Series Units: 1ZPT5, 1ZPT6, 1ZPT7, 4RU70, 4RU71, 6WA83	4VE89
	25 and 30 HP UP6-Series Units: 3HGC6, 3HGD1, 3HGD2, 3HGD4, 3HGD5, 3HGC7, 3HGC8, 3HGC9, 3UB86, 3UB87, 3UB88, 3UB89	4VE87
	Ingersoll Rand 25 HP (150 psi) and 30 HP (200 psi) UP6-Series Rotary Screw Air Compressors	6WA86
Filter Element	5 to 15 HP UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	40AY60
	15 to 50 HP UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 6WA82, 53RU34, 53RU35, 53RU40, 53RU41	4ZK03
Inlet Filter	—	2CEN8
Maintenance Kit (See Grainger.com® for Kit Contents)	5 to 15 HP R-Series Units: 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	40AY56
	5 to 15 HP R-Series Units: 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	40AY61
	5 to 15 HP R-Series Units: 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	40AY65
	5 to 15 HP R-Series Units: 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	40AY85
	10 to 15 HP UP6-Series Units: 1ZPT2, 1ZPT3, 1ZPT5, 1ZPT6, 1ZPT7, 4RU68, 4RU69, 4RU70, 4RU71, 6WA82, 6WA83	5HYJ7
Maintenance Kit (Ultra Coolant) (See Grainger.com® for Kit Contents)	5 and 7.5 HP UP6-Series with Dryer Package: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR8, 1ZPT1	5HYJ6
	5 to 15 HP UP6-Series without Dryer Package: 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	5HYJ3
	20 to 30 HP UP6-Series Units: 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89	5HYJ4
	40 and 50 HP UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 53RU34, 53RU35, 53RU40, 53RU41	5HYJ5
Replacement Oil Filter	5 to 15 HP R- and UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	4ZJ99
	15 to 50 HP UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 6WA82 , 53RU34, 53RU35, 53RU40, 53RU41	4VE86
Start-up Kit	5 to 15 HP UP6 Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	5HYJ8
	20 to 50 HP UP6 Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3HGC7, 3HGC8, 3HGC9, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 53RU34, 53RU35, 53RU40, 53RU41	5HYJ9
Ultra Coolant	All Ingersoll Rand Rotary Screw Compressors	5HYK1
	All Ingersoll Rand Rotary Screw Compressors	5HYK0
Chicago Pneumatic		
Compressor Oil, Rotair, Mineral Oil, 1.32 gal.	10 to 50 HP Units: 40JE21, 40JE22, 40JE26, 40JE28, 40JE30, 40JE39, 40JE48, 40JE54, 40JE57, 40JE58, 40JE64, 40JE65, 40JE66, 40JE67, 40JE72, 40JE75, 40JE76, 40JE79, 40JE80, 40JE81, 40JE85, 40JE87, 40JE90, 40JE99	40JE27
Compressor Oil, Rotair, Mineral Oil, 5.25 gal.	10 to 50 HP Units: 40JE21, 40JE22, 40JE26, 40JE28, 40JE30, 40JE39, 40JE48, 40JE54, 40JE57, 40JE58, 40JE64, 40JE65, 40JE66, 40JE67, 40JE72, 40JE75, 40JE76, 40JE79, 40JE80, 40JE81, 40JE85, 40JE87, 40JE90, 40JE99	40JE91
Compressor Oil, Rotair Plus, Mineral Oil, 1.32 gal.	10 to 50 HP Units: 40JE21, 40JE22, 40JE26, 40JE28, 40JE30, 40JE39, 40JE48, 40JE54, 40JE57, 40JE58, 40JE64, 40JE65, 40JE66, 40JE67, 40JE72, 40JE75, 40JE76, 40JE79, 40JE80, 40JE81, 40JE85, 40JE87, 40JE90, 40JE99	40JE94
Compressor Oil, Rotair Plus, Mineral Oil, 5.25 gal.	10 to 50 HP Units: 40JE21, 40JE22, 40JE26, 40JE28, 40JE30, 40JE39, 40JE48, 40JE54, 40JE57, 40JE58, 40JE64, 40JE65, 40JE66, 40JE67, 40JE72, 40JE75, 40JE76, 40JE79, 40JE80, 40JE81, 40JE85, 40JE87, 40JE90, 40JE99	40JE45
Maintenance Kit (See Grainger.com® for Kit Contents)	5 and 7.5 HP Units: 40JE21, 40JE22, 40JE26, 40JE65, 40JE66, 40JE67, 40JE80, 40JE90	40JE25
	5 and 7.5 HP Units: 40JE21, 40JE22, 40JE26, 40JE65, 40JE66, 40JE67, 40JE80, 40JE90	40JE41
	10 and 15 HP Units: 40JE30, 40JE48, 40JE58, 40JE79	40JE63
	20, 25 and 30 HP Units: 40JE28, 40JE39, 40JE54, 40JE75, 40JE76, 40JE85	40JE36
	20, 25 and 30 HP Units: 40JE28, 40JE39, 40JE54, 40JE75, 40JE76, 40JE85	40JE43
	20 and 25 HP Units: 40JE28, 40JE39, 40JE76, 40JE85	40JE55
	30 HP Units: 40JE54, 40JE75	40JE96



No. 1WG49

SPEEDAIRE

Ingersoll Rand

Lubricants

Synthetic Based—Ideal for high- and low-temperature applications. Allow Speedaire® reciprocating compressors to operate at 100% continuous duty.

Specialty Blend—Nondetergent industrial oil has rust and oxidation inhibitors specially formulated for reciprocating compressors. Reduces carbon buildup.

Size	Brand	Item No.
Synthetic Based		
1 qt.	Speedaire	**1WG49**
1L	Ingersoll Rand	**2YY83**
Specialty Blend		
1 qt.	Speedaire	**1WG50**

Ingersoll Rand

Air Compressor Start-Up Kits

Electric Motor Kits—Include All Season Select® lubricant, 2 inlet air filters, and product data sheet.

Gasoline Engine Kits—Include All Season Select® lubricant and inlet air filters for the compressor pump, in addition to the manufacturer's engine oil, air filter, and oil filter when appropriate.



For Use With	Mfr. Model	Item No.
Electric Motor Kits		
4YW09, Mfr. Series No. SS3	97338099	**4ZK07**
4YW10, Mfr. Series No. SS5	20100251	**5ZL67**
4L977, 4L976, 4L974, 1WF59, 1WF60, 1WF61, 4M310, 4M361, 4M311, Mfr. Series No. 2340, 2475	32305880	**4M579**
4TN87, 6CRL6, 6CRL7, 1WF65, 4R774, 4R778, Mfr. Series No. 2545, 7100	32305898	**4M580**
Mfr. Series No. 3000	32305906	**4M581**
Gasoline Engine Kits		
Mfr. No. SS3J5.5GH-WB	97339501	**5ZL97**
4L991, 4PY82	32305872	**4KR55**
Mfr. No. 2475F13GH	22235337	**2NU66**



No. 4ZF21



No. 34LR48

Mobil™ RENEWABLE LUBRICANTS Jenny AIR COMPRESSOR

Lubricants for Air and Refrigeration Compressors

Renewable Lubricants®—
Nos. 21A504 and 21A505 are a biobased/synthetic formula that can replace hydrocarbon oil-based compressor fluids. Ultimate biodegradable.

Ultimate Blue®—This 100% synthetic, nondetergent oil features ashless antiwear additives plus rust and oxidation inhibitors.

SYNTHETIC AIR COMPRESSOR OIL

Highly resistant to oxidation and deposit formation in small portable and stationary reciprocating compressors. More sizes available on Grainger.com®.

Mobil Rarus® 800 Series—
Recommended for single and multistage air compressors (not for breathing air applications). This oil is very effecitve for continuous high temperature operation with discharge temperatures up to 200.

Renewable Lubricants® Bio-SynXtra™ Food Grade, Air Compressor—
Biosynthetic oil is zinc-free. Provides superior antifoam, antirust, and demulsibility properties. Recommended for use in rotary, reciprocating, and centrifugal compressors.

REFRIGERATION COMPRESSOR OIL

Highly refined naphthenic base oil is suitable for reciprocating compressors (cylinders and bearings) using many types of refrigerants except sulfur dioxide. More sizes available on Grainger.com®.

Renewable Lubricants® Bio-SynXtra™ Food Grade, Refrigeration Compressor—Compatible with CO_2, ammonia, and R12 refrigerant systems.

FOOD GRADE COMPRESSOR OIL

For use in portable and stationary rotary vane and screw compressors, single-stage, 2-stage, and multistage reciprocating compressors. No. 36N465 features antifoam, antirust, and demulsibility properties. All items are biodegradable.

Description	Size	SAE Grade	ISO Viscosity Grade	Viscosity Index	Viscosity @ 100C	Viscosity @ 40C	Flash Point	Brand	Mfr. Model	Item No.
Air Compressor Oil										
Rarus® 427 Non-Detergent	1 qt.	30	100	100	11.6 cSt	104.6 cSt	264°C	Mobil	123001	**4ZF21**
Rarus® 427	1 gal.	30	100	100	11.6 cSt	104.6 cSt	264°C	Mobil	101016	**4F978**
Bio-Air™, (AC-30)	1 qt.	30	—	200	10.5 cSt	54 cSt	247°C	Renewable Lubricants	84201	**36N465**
	1 gal.	30	—	200	10.5 cSt	54 cSt	247°C	Renewable Lubricants	84203	**21A504**
	5 gal.	30	—	200	10.5 cSt	54 cSt	247°C	Renewable Lubricants	84204	**21A505**
Ultimate Blue®	1 qt.	30	100	136	13.63 cSt	100.48 cSt	507°F (264°C)	Jenny Ultimate Blue	105-1209	**34LR48**
	(12) 1 qt. Containers	30	100	136	13.63 cSt	100.48 cSt	507°F (264°C)	Jenny Ultimate Blue	610-1366	**34LR49**
	1 gal.	30	100	136	13.63 cSt	100.48 cSt	507°F (264°C)	Jenny Ultimate Blue	105-1210	**34LR50**
	(4) 1 gal. Containers	30	100	136	13.63 cSt	100.48 cSt	507°F (264°C)	Jenny Ultimate Blue	610-1367	**34LR51**
Synthetic Air Compressor Oil										
Rarus® 824	5 gal.	10W	32	32	5.5 cSt	29.5 cSt	244°C	Mobil	100537	**4ZF39**
Rarus® 827	5 gal.	30	100	100	10.12 cSt	107.5 cSt	270°C	Mobil	104820	**6Y783**
Bio-SynXtra™	5 gal.	30	68	68	11 cSt	66 cSt	245°C	Renewable Lubricants	87954	**21A498**
Food Grade	55 gal.	30	68	68	11 cSt	66 cSt	245°C	Renewable Lubricants	87956	**21A499**
Rotary Screw Compressor Oil										
SCH Rarus™ 32	5 gal.	10W-20	32	123	5.6 cSt	30.6 cSt	204°C	Mobil	121987	**49JM31**
SHC Rarus™ 68	5 gal.	20	68	129	9.7 cSt	65.3 cSt	192°C	Mobil	122000	**49JM32**
Refrigeration Compressor Oil										
Gargoyle® Arctic® 300	5 gal.	20	156	68	—	—	340°F	Mobil	104837	**4ZF41**
Bio-SynXtra™	5 gal.	—	68	156	11 cSt	67 cSt	242°C	Renewable Lubricants	87854	**21A496**
Food Grade	55 gal.	—	68	156	11 cSt	67 cSt	242°C	Renewable Lubricants	87856	**21A497**
Food-Grade Compressor Oil										
Bio-SynXtra™ Comp/ Refrigerant FG	1 qt.	—	68	156	11 cSt	67 cSt	260°C	Renewable Lubricants	87851	**36N461**
	1 gal.	—	68	156	11 cSt	67 cSt	260°C	Renewable Lubricants	87853	**36N462**
Bio-SynXtra™ FG Compressor	1 qt.	—	68	159	11 cSt	66 cSt	245°C	Renewable Lubricants	87951	**36N463**
	1 gal.	—	68	159	11 cSt	66 cSt	245°C	Renewable Lubricants	87953	**36N464**



No. 2WGX7



No. 40KH92

SPEEDAIRE

Single-Stage Replacement Air Compressor Pumps

Designed to cycle On/Off while providing continuous air with a 65/35 duty cycle. Pumps feature cast-iron construction and splash lubrication. Does not include flywheel; flywheels are available on Grainger.com®.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM	NPT Outlet	Bore Dia.	Stroke Length	No. of Cylinders	Item No.
½, ¾, 1	1.3, 1.6, 1.9	820, 1135, 1425	2⅛", 3⁶¹⁄₆₄", 4⁶¹⁄₆₄"	½"	2⁹⁄₁₆"	1¹³⁄₃₂"	1	**40KH94**
1, 1½ ,2	3.0, 3.7, 4.9	690, 860, 1020	4", 5", 5²⁹⁄₃₂"	⅜"	2¾"	2"	2	**2WGX6**
2, 3	4.9, 7.9	690, 1020	4", 5²⁹⁄₃₂"	⅜"	2¾"	2"	2	**2WGX7**
4, 5	11.0, 16.5	730, 1010	6", 8¹⁹⁄₆₄"	½"	2¾"	2"	4	**40KH92**

½- to 7½-HP Air Compressor Pumps

ROLAIR

Rugged pumps feature cast iron/aluminum construction, stainless steel reed valves, splash lubrication, and CCW rotation facing flywheel. Avg. pump life: 10,000 hr.

HP	Pump RPM	Sheave Size @ 1725 RPM †	Oil Cap.	NPT Outlet	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Single Stage									
½, ¾	700, 1000	4 5/32", 5 15/16"	6 oz.	½"	10 1/8"	A	1	PMP11K3GR	**36VJ17**
1, 1½	850, 1100	5 3/64", 6 17/32"	12 oz.	½"	10 1/8"	A	1	PMP11K8GR	**36VJ18**
1½, 3	900, 1400	5 47/64", 8 15/16"	17 oz.	½"	10 1/8"	A	1	PMP12MK103GR	**31LA90**
1½, 3	1000, 1200	6 3/8", 7 35/64"	34 oz.	½"	11"	A	1	PMP12K17GR	**35DZ65**
2, 4	900, 1400	6 17/64", 9 39/64"	30 oz.	½"	12"	A	1	PMP12MK113GR	**31LA91**
7½	800	7"	47 oz.	¾"	15"	A	2	PMP12K35GR	**36VJ19**
2-Stage									
5, 7½	1000, 1200	8", 11 3/8"	45 oz.	1"	15"	B	1	PMP22BK119GR	**31LA92**
5, 7½	1000, 1200	7 51/64", 10 13/32"	47 oz.	¾"	15"	A	2	PMP22K30GR	**35DZ66**

† Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.


No. 31LA90


No. 36VJ19

4- to 30-HP 2-Stage Air Compressor Pumps

SPEEDAIRE

- Cast-iron construction
- Stainless steel valves for long life
- Max. pressure: 175 psi
- Oil level sight glass

Splash Lubricated—Designed to cycle On/Off while providing continuous air with an 80/20-duty cycle. Rated for heavy-duty commercial use in new or replacement applications. Pumps come with large-capacity oil reservoir with sight gauge. No. 3Z411 unloader and pilot valves allow constant speed operation or dual control. Recommended oil is No. 4ZF21, sold separately on page 2568.

Pressure Lubricated—Oil pump provides lubricant to all critical areas. Spin-on filter for continuous oil filtration.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM‡	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Item No.
Splash Lubricated								
4, 5	12.0, 14.4	1190, 1310	10 5/64", 12 23/64"	16 oz.	16½"	A/B	1	**40KH93**
5	17.1	700	6¾"	2 qt.	16½"	—	—	**5Z404**
5, 7½	17.3/23.5	734, 990	7¼", 9¾"	2 qt.	16½"	B	2	**1WD21**
7.5	25.1	1020	9 13/64"	2 qt.	16½"	—	—	**5F566**
10	34.2	700	6¾"	4 qt.	16½"	—	—	**5Z405**
10, 15	34.8/49.0	740, 1045	8", 11⅜"	4 qt.	19"	B	2	**1WD22**
15	51	1020	11"	4 qt.	19⅜"	—	—	**4B248**
20, 25, 30	76.7/90.1/101.0	655, 770, 890	8⅜", 9⅞", 11⅜"	6⅓ qt.	22"	B	3	**3Z411**
Pressure Lubricated								
5, 7½	17.3/23.5	760, 1035	7¼", 9¾"	2 qt.	16½"	B	2	**1WD23**
10, 15	34.8/49.0	740, 1045	8", 11⅜"	4 qt.	19"	B	2	**1WD24**

‡ Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.


No. 1WD21


No. 5Z405


No. 3Z411

3- to 15-HP 2-Stage Air Compressor Pumps

CHAMPION

Designed for heavy-duty industrial applications. Die-cast aluminum cylinders with cast-iron sleeves for greater efficiency, cooling, and service life. Balanced, fan-type flywheels provide airflow for cooling pump. Rotation CCW facing flywheel. Splash-lubricated models feature cast iron head, cylinders, and crank shaft with stainless steel Swedish valves for rugged durability and long life.

Intercoolers efficiently dissipate heat. Include unloader and pilot valve for constant speed operation. Centrifugal unloader provides efficient pressure release for loadless starting.

Note: To determine motor pulley size: Compressor pulley x compressor rpm ÷ motor rpm = motor pulley size.

Lubrication Type	HP	Pump RPM	NPT Outlet	Sheave Size*	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Pumps for Start/Stop Operation										
Splash Lubricated	3, 5	440, 734	¾"	4¼", 7"	2 qt.	16½"	B	2	R2-30A-P01	**3Z180**
Splash Lubricated	7½, 10	575, 740	¾"	6⅜", 8⅛"	1 gal.	19"	B	2	R2-30A-P02	**3Z182**
Pumps for Constant or Dual Control Operation										
Splash Lubricated	3, 5	440, 710	¾"	4¼", 7"	2 qt.	16½"	B	2	R2-30A-P03	**3Z181**
Splash Lubricated	7½, 10	575, 740	¾"	6⅜", 8⅛"	1 gal.	19"	B	2	R2-30A-P05	**3Z183**
Pressure Lubricated	15	770	1"	9¾"	1 gal.	22"	B	3	R2-30A-P22	**3Z410**

** Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.*


No. 3Z180


No. 3Z183

3- to 15-HP Single- and 2-Stage Air Compressor Pumps

Ingersoll Rand

TYPE 30

Durable, cast-iron cylinders, heads, and frame are designed for continuous operation with the use of Ingersoll Rand All Season Select Lubricant and extends pump life. Overhung crankshaft is precision balanced to run smoothly and quietly. 1-pc. connecting rod. Cylinders can be removed for easy repair and service. Pumps are splash lubricated.

SINGLE-STAGE

Durable, cast-iron cylinders, heads, and frame are designed for continuous-duty operation with the use of Ingersoll Rand All Season Select Lubricant.

2-STAGE

Splash-lubricated pump includes cast-iron cylinders and crankshaft. Stainless steel valves are for rugged durability and long life.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Motor RPM	NPT Outlet	Sheave Size @ 1725 RPM	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Type 30											
5	14.0	3450	3450	½"	6 17/64"	28 oz.	13½"	A	1	2340	**4KR37**
5, 7½	16.8/24.0	1040, 1500	3450	½"	8 15/16", 5 15/16"	41 oz.	13½"	A	1	2475	**4R800**
7½, 10	26.2/35.0	825, 1050	1750	¾"	5¾", 8 61/64", 11 23/64"	74 oz.	17 39/64"	B	1	2545	**4M392**
10, 15	36.6/50.0	800, 1100	1750	1"	8 23/64", 11 23/64"	2½ qt.	17½"	B	2	7100	**4R766**
Single-Stage											
3	10.3	1200	3450	⅜"	4.20	16.9 oz.	12½"	A	1	SS3 Bare	**1WF72**
5	16.3	1000	3450	½"	4"	40 oz.	14½"	A	1	SS5 Bare	**1WF74**
2-Stage											
5	16.5	1500	3450	½"	5 51/64"	40.64 oz.	14½"	A	1	TS5 Bare	**1WF86**


No. 4R800


No. 4M392


No. 2TWC1


No. 3Z409

SPEEDAIRE

Air Tanks

NONCODE AIR TANKS

No. 2TWC1—Formed, 1-pc. steel strap feet for maximum stability. ¼" and ½" NPT ports.

No. 2TWC4—One ½" port, one ¼" port, and one ¼" drain port. Split-base design accommodates a variety of pumps. Some drilling may be required.

Note: Noncode tanks do not have ASME certification. Before ordering, check local and state code requirements.

ASME CODE AIR TANKS

No. 3Z409—Includes semipneumatic 10" x 1¾" wheels; ¼", ⅜", and ½" NPT openings; and sturdy, 2-pc. pump/motor platforms.

GAS ENGINE AIR COMPRESSOR TANKS

No. 1VW38—ASME replacement tank for Speedaire® Compressor Nos. 4B220 and 4B241. Includes one ½" NPT, one ¼" NPT, and one ¼" NPT drain ports. Tank has two 10" x 1¾" semipneumatic wheels.

No. 1VW39—ASME replacement tank for Speedaire® Compressors Nos. 4WL38 and 5F564. Includes three ½" NPT, two ¼" NPT, and one ⅜" NPT drain ports.

Tank (gal.)	Tank Type	Working Pressure (psi)	Max. Motor HP	L (in.)	W (in.)	H (in.)	Tank Dia. (in.)	Tank Gauge	Item No.
Noncode Air Tanks									
3	Hotdog	125	1	25	8 3/32	8 19/64	5 29/32	13	**2TWC1**
5	Pancake	125	1	16 3/16	16 3/16	9 3/8	16 3/16	11	**2TWC4**
15	Portable	135	—	33 49/64	13 3/8	18 15/64	12	13	**52YM08**
ASME Code Air Tanks									
20	Portable	144	3	33 1/8	15 1/8	18 1/4	14	12	**3Z409**
Gas Engine Air Compressor Tanks									
20	Portable	150	5 ½	33	15	18	14	12	**1VW38**
30	Stationary	200	13	39 3/8	18	23	16	10	**1VW39**

SPEEDAIRE

Air-Carry Tanks

- Max. working pressure: 125 psi
- 3-ft. hose with adapter
- 0 to 160 psi pressure gauge
- Brass manifold with shutoff and safety valves

Use for inflating or in combination with recoil hose and air gun, sold separately on page 2515.


No. 2TWC2

Note: These tanks do not have ASME certification. Before ordering, check local and state code requirements.

Item	Tank (gal.)	L (in.)	H (in.)	Tank Dia. (in.)	Item No.
Air-Carry Tanks					
Air Carry Tank	5	17 19/32	11 19/32	9 19/64	**2TWC2**
Portable Air Tank	11	24 1/4	14 3/8	12	**3EUJ9**


No. 4TK10

SPEEDAIRE

Stationary/Portable ASME Code Tanks

Includes two ½" NPT ports, 2 inspection ports, drain valve, and ASME safety valve.

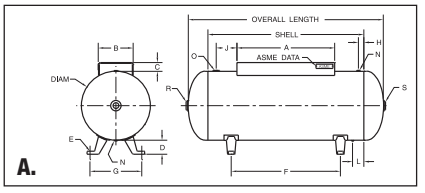
Tank (gal.)	Working Pressure (psi)	L (in.)	W (in.)	H (in.)	Tank Dia. (in.)	Steel Tank (Gauge)	Item No.
13	140	28 29/32	12 1/2	16 45/64	12	13	**2TWC3**
20	144	31 1/2	12 1/2	18 1/2	14	15	**4TK10**

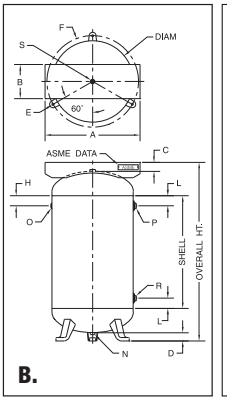
Stationary ASME Code Air Tanks

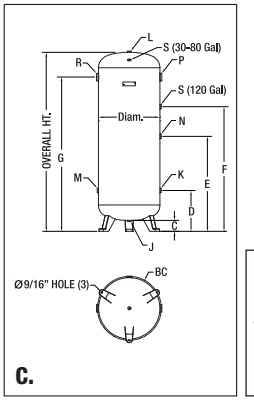
SPEEDAIRE

- Max. working pressure: 200 psi

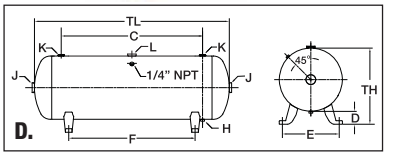
Meet city and state requirements for most commercial and industrial installations. Models with top plate accept new or replacement compressor and motor assemblies. No. 5Z359 can be operated with gas engine to 5 HP max. Foot pads on 60-, 80-, and 120-gal. horizontal units.








No. 6CJL3



Key	Tank Capacity (gal.)	Dia. (in.)	L (in.)	H (in.)	Shell (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	L (in.)	N (in.)	O (in.)	P (in.)	R (in.)	S (in.)	Item No.	
Horizontal Tanks with Top Plate - ASME U and UM Code																						
A	30	16	41.1	21.7	31.5	24.5	8.0	3.3	2.4	0.6	24.0	13.4	1.8	1.9	1.8	⅜	½	—	1½	1½	**5Z359**	*
A	60	20	48	27.6	35.8	29.0	9.3	3.0	4.6	0.6	28.0	18.0	2.0	1.4	2.0	⅜	¾	—	2	2	**5Z360**	*
Horizontal Tanks with Top Plate - ASME Section VIII Division 1, U Tank																						
A	80	20	63	27.4	50.8	34.0	12.0	2.8	4.6	0.6	40.0	18.0	2.9	2.5	2.9	⅜	¾	—	2	2	**5Z361**	*
Horizontal Tanks with Top Plate - ASME U and UM Code																						
A	120	24	68.4	31.9	54.3	34.0	12.0	3.0	4.9	0.6	42.0	18.0	2.9	7.3	2.9	⅜	1¼	—	2	2	**5Z362**	†
Vertical Tanks with Top Plate - ASME U and UM Code																						
B	30	16	—	45.2	31.5	24.5	8.0	3.0	1.8	0.6	17.0	—	5.0	—	5.0	⅜	¾	¾	1½	1½	**5Z363**	*
B	60	20	—	52.2	35.8	29.0	9.3	2.3	2.8	0.6	24.0	—	4.0	—	4.0	⅜	¾	¾	2	2	**5Z364**	*
B	80	24	—	51.6	33.3	28.0	10.0	2.6	2.5	0.6	27.0	—	3.0	—	3.0	⅜	¾	¾	2	2	**5Z365**	*

Key	Tank Capacity (gal.)	Dia. (in.)	L (in.)	H (in.)	Shell (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	BC (in.)	H (in.)	J (in.)	K (in.)	L (in.)	M (in.)	N (in.)	P (in.)	R (in.)	S (in.)	Item No.
Vertical Tanks without Top Plate - ASME U Code																					
C	30	16	—	40.5	31.5	2.5	11	21.5	—	32	17	—	½	—	¾	1½	—	¾	1½	¼	**1TZZ6**
C	60	20	—	52	35.8	3	12.5	26	—	42.5	24	—	½	—	¾	2	—	¾	2	¼	**1TZZ7**
C	80	24	—	49.5	33.3	4.5	14	27	—	40	27	—	½	—	¾	2	—	1	2	¼	**1YAC4**
Vertical Tanks without Top Plate - ASME																					
C	240	30	—	88.5	.2	4	17.6	—	74.4	74.8	30	—	—	—	2	2	—	¾	2	—	**6CJL3**
C	400	36	—	101	.2	8	17.6	38.6	60.6	81.6	36	—	—	—	2	2	.5	1½	2	¼	**6CJL4**
Horizontal Tanks without Top Plate - ASME U Code																					
D	30	16	41.5	20.46	—	27.50	2	13.44	24	—	—	½	1½	½	¾	—	—	—	—	—	**3HDR1**
D	60	20	46.75	27.05	—	32.50	4.11	18	28	—	—	½	2	¾	1	—	—	—	—	—	**3HDR2**
D	80	20	61.75	25.65	—	44.75	4.11	18	40	—	—	½	2	1	1½	—	—	—	—	—	**3HDR3**
D	120	24	67.5	30.52	—	48.25	4.42	18	42	—	—	¾	2	1½	1½	—	—	—	—	—	**3HDR4**

** Opening has ¾"-reducer plug. † Opening has 1"-reducer plug.*

SPEEDAIRE

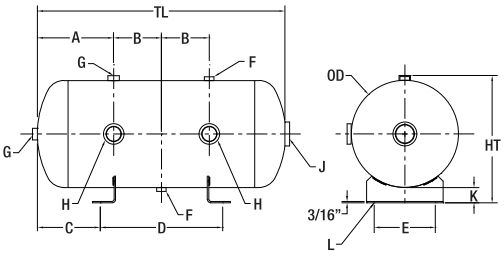
Small Air Receivers/Surge Tanks

- Max. working pressure: 175 psi
- Plugs included in all openings
- Multiple openings and NPT thread sizes
- Black powder-coated finish

Designed for point-of-use air storage. Stationary, steel horizontal tanks are excellent for providing compressed air to short, peak-demand applications.



No. 1TZZ5



Tank Capacity (gal.)	Dimensions Dia. (in.)	TL (in.)	HT (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	K (in.)	L (in.)	F (in.)	Opening NPT G (in.)	H (in.)	J (in.)	Item No.
2	6	19	8	4	5.5	4	11	3.5	2	0.44	0.50	0.75	0.75	1	**1TZY6**
3	6	25	8	4	8.5	7	11	3.5	2	0.44	0.50	0.75	0.75	1	**1TZY7**
6	10	20	12	5	5	4	12	6.5	2	0.44	0.50	0.75	0.75	1	**1TZY8**
10	12	24.5	14	7.25	5	6.25	12	6.5	2	0.44	0.50	0.75	0.75	1	**1TZY9**
15	12	34	14	7	10	11	12	6.5	2	0.44	0.50	0.75	1.5	1	**1TZZ2**
20	14	32.5	16	10	6.25	8.25	16	8.5	2	0.56	0.50	0.75	1.5	2	**1TZZ3**
30	16	37.5	18	10	8.75	10.75	16	10.5	2	0.56	0.50	0.75	1.5	2	**1TZZ5**

Oil/Water Separators

Parker domnick hunter · Ingersoll Rand

Designed to separate emulsified compressor water and oil condensates using no electricity. Modules prevent contamination of upstream coalescing and carbon filters, extending downstream air line filter life.

Max. Air Compressor HP	Max. Air Flow (scfm)	Condensate Inlet NPT (in.)	Absorption Module Volume (gal.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Oil/Water Separators									
10	43	(1)½,(1)¼	—	13	10	33	Domnick Hunter	ES2100	**4HCZ1**
15	60	½	2 gal.	11½	11½	27½	Ingersoll Rand	PSG-7	**2KMP6**
25	124	(1)½,(1)¼	16 gal.	17	14	32	Domnick Hunter	ES2150	**4HCZ2**
40	175	½	5 gal.	28½	19½	30⅞	Ingersoll Rand	PSG-15	**2KMP7**
	191	(1)½,(1)¼	20 gal.	18	14	32	Domnick Hunter	ES2200	**4HCZ3**
60	268	(1)½,(3)¼	33 gal.	32	20	47	Domnick Hunter	ES2300	**4HCZ4**
75	390	½	12 gal.	34	21	39	Ingersoll Rand	PSG-30	**11U221**
120	535	(1)½,(3)¼	49 gal.	32	27	47	Domnick Hunter	ES2400	**4HCZ5**
240	1062	(1)½,(3)¼	94 gal.	39	28	61	Domnick Hunter	ES2500	**4HCZ6**
480	3590	(1)½,(3)¼	128 gal.	40	40	61	Domnick Hunter	ES2600	**4HCZ7**



No. 4HCZ1



No. 2KMP7

For Use With Mfr. Model Number	Mfr. Model	Item No.
Replacement Separator Modules		
PSG-7	AM-7	**2KMP8**
PSG-15	AM-15	**2KMP9**
PSG-60	AM-60	**11U225**
PSG-90	AM-90	**11U226**
PSG-30	AM-30	**11U224**

Description	For Use With	Item No.
Replacement Bags & Filters		
Carbon Bag	4HCZ1 to 5	**5KCL3**
	—	**5KCL4**
Vent Filter	—	**5KCL5**
	—	**5KCL6**



No. 20CL92



No. 20CL95

SPEEDAIRE

Heavy-Duty Drip Leg with Automatic Float Drain



Attaches to vertical leg of air system to collect moisture and automatically evacuate liquids using integral float drain. Valve opens when system is unpressurized, allowing gravity drainage. 6.61"H x 2.36"W.

NPT (in.)	Max. Pressure (psi)	Max. Temp. (°F)	Item No.
½	250	175	**4ZK11**



control devices, LLC

Cable-Operated Drain Valve

Features brass body and stem, nitrile O-ring, and 5-ft. long vinyl-covered steel cable. Max. pressure: 200 psi. Max. temp.: 200°F.

Inlet Port	Hex	H	Mfr. Model	Item No.
¼" NPT	⅜"	1.06"	DP25-1A060	**6D913**

Intech Industries, Inc.

Oil Absorbing Oil/Water Separators

2-stage absorption bags attract and hold oil like a magnet. They reduce condensate oil content to <10 ppm so that water can pass safely to the drain.

Max. Air Compressor HP	Max. Air Flow (scfm)	Condensate Inlet NPT (in.)	Absorption Module Volume (gal.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Oil/Water Separators								
15	70	½	⅛ gal.	9	9	10	OWSD-70	**20CL92** *
30	125	½	13⅜16 gal.	19	11	17	CT-125	**20CL93**
50	250	½	1 13⅜16 gal.	23	12	18	CT-250	**20CL94**
150	600	½	4 gal.	29	16	20	CT-600	**20CL95**

** Disposable; no replacement bags needed.*

Description	For Use With	Item No.
Replacement Elements		
First Stage		
Charcoal Bag	20CL93	**20CL96**
	20CL94	**20CL99**
	20CL95	**20CM03**
Second Stage		
Polypropylene Bag	20CL93	**20CL97**
	20CL94	**20CM01**
	20CL95	**20CM04**
Third Stage		
Polyglycol Bag	20CL93	**20CL98**
	20CL94	**20CM02**
	20CL95	**20CM05**



No. 4GNN1

SPEEDAIRE

External Auto Drain

- No power required
- Automatically opens to discharge condensate

Aluminum construction with durable epoxy powder-coated finish and corrosion-resistant internal coating. Override feature allows manual operation. 6.25"H x 4.25"W.

Max. Pressure	Drain Rate @ 100 PSI	Pipe Size	Drain Outlet Dia.	Operating Temp. Range	Item No.
230 psi	1.00 gpm	½" NPT	½"	33° to 155°F	**4GNN1**



No. 53DN43



No. 53CE41



No. 53DN44



No. 13X530

SPEEDAIRE DynaQuip Controls

Timer-Operated Electronic Drain Valves

- Open and close automatically, based upon easy-to-adjust timer settings.

Motorized Ball Valves—For use when contaminants and large particles may plug or hold open other drain valves.



No. 53RG49

Pipe Size	Voltage	Drain Rate	Adjustable Drain Cycle	Purge Time	Max. Pressure	Operating Temp. Range	Brand	Mfr. Model	Item No.
Industrial Standard Solenoid Valves									
⅛" NPT	100-120V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X522	**13X522**
	208-240V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X523	**13X523**
¼" NPT	100-120V	2.55 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X524	**13X524**
	208-240V	2.55 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X525	**13X525**
	115V	4.0 gpm	1 min. to 60 min.	1 sec. to 30 sec.	250 psi	35° to 165°F	Speedaire	53DN43	**53DN43**
⅜" NPT	100-120V	4.33 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X526	**13X526**
	208-240V	4.33 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X527	**13X527**
½" NPT	115V	1.0 gpm	0.5 min. to 45 min.	1 sec. to 10 sec.	300 psi	35° to 165°F	Speedaire	53CE41	**53CE41**
	115V	1.6 gpm	0.5 min. to 45 min.	1 sec. to 10 sec.	300 psi	35° to 165°F	Speedaire	53CE42	**53CE42**
	100-120V	4.53 gpm	0.5 min. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X528	**13X528**
	115V	4.0 gpm	0.5 min. to 45 min.	1 sec. to 10 sec.	300 psi	35° to 165°F	Speedaire	53DN44	**53DN44**
	115V	4.0 gpm	1 min. to 60 min.	1 sec. to 30 sec.	250 psi	35° to 165°F	Speedaire	53CE43	**53CE43**
	208-240V	4.53 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	13X529	**13X529**
	100-120V	15.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X530	**13X530** †
	208-240V	15.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X531	**13X531** †
	100-120V	16.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X532	**13X532** †
	208-240V	16.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X533	**13X533** †
	100-120V	17.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X534	**13X534** †
	208-240V	17.5 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	14° to 140°F	Speedaire	13X535	**13X535** †
Industrial Standard Solenoid Valves with Digital Timer									
¼" NPT	115V	38 gpm	0.5 min. to 99 hr.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	53RG49	**53RG49**
	115V	75 gpm	0.5 min. to 99 hr.	0.5 sec. to 10 sec.	725 psi	14° to 140°F	Speedaire	53RG50	**53RG50**
½" NPT	115V	38 gpm	0.5 min. to 99 hr.	0.5 sec. to 10 sec.	250 psi	14° to 140°F	Speedaire	53RG51	**53RG51**
	115V	75 gpm	0.5 min. to 99 hr.	0.5 sec. to 10 sec.	725 psi	14° to 140°F	Speedaire	53RG52	**53RG52**
Combi Solenoid Valves with Integrated Unibody Strainer									
½" NPT Inlet x ⅜" NPT Outlet	115V	1.2 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	35° to 95°F	Speedaire	38XT31	**38XT31**
	230V	1.2 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	300 psi	35° to 95°F	Speedaire	38XR70	**38XR70**
	115V	4.0 gpm	1 min. to 60 min.	1 sec. to 30 sec.	250 psi	35° to 165°F	Speedaire	53CE44	**53CE44**
High-Pressure Solenoid Valves									
¼" NPT	115V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	725 psi	14° to 140°F	Speedaire	13X536	**13X536**
	230V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	725 psi	14° to 140°F	Speedaire	13X537	**13X537**
	115V	1.0 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	1500 psi	35° to 95°F	Speedaire	38XR85	**38XR85**
	230V	1.0 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	1500 psi	35° to 95°F	Speedaire	38XR45	**38XR45**
½" NPT	115V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	725 psi	14° to 140°F	Speedaire	13X538	**13X538** †
	230V	0.75 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	725 psi	40° to 176°F	Speedaire	12F742	**12F742** †
	115V	7.0 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	1500 psi	35° to 95°F	Speedaire	38XT39	**38XT39**
	230V	7.0 gpm	0.5 sec. to 45 min.	0.5 sec. to 10 sec.	1500 psi	35° to 95°F	Speedaire	38XR65	**38XR65**
Motorized Ball Valves									
¼" NPT	115V	6.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XT52	**38XT52**
	230V	6.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR40	**38XR40**
½" NPT	115V	3.1 gal./cycle	1 min. to 14 days	7 sec.	200 psi	35° to 165°F	DynaQuip Controls	AD2A ½	**36ND56**
	115V	8.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR94	**38XR94**
	230V	8.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR49	**38XR49**
¾" NPT	115V	6.0 gal./cycle	1 min. to 14 days	7 sec.	200 psi	35° to 165°F	DynaQuip Controls	AD2A ¾	**36ND57**
	115V	9.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XT09	**38XT09**
	230V	9.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR68	**38XR68**
1" NPT	115V	7.7 gal./cycle	1 min. to 14 days	7 sec.	200 psi	35° to 165°F	DynaQuip Controls	AD2A 1	**36ND58**
	115V	10.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR71	**38XR71**
	230V	10.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XR93	**38XR93**
1¼" NPT	115V	24.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XT22	**38XT22**
	230V	24.0 gpm	0.5 sec. to 120 min.	1 sec. to 30 sec.	250 psi	35° to 95°F	Speedaire	38XT17	**38XT17**

† Includes filter ball valve and self-cleaning strainer.


No. 49T493


No. 4KT04


No. 22PT26

GAV GRAINGER APPROVED VENDOR

control devices, LLC

WILKERSON

Pneumatic-Operated Drain Valves

Automatically drain harmful condensate from compressed air systems.

WaterHog™—Innovative design without ½" passages to help ensure clog-free operation.

Drain-All®—No. 22PT26 allows greater throughput of solid debris. No. 22PT27 is ideal for use in old intercoolers/aftercoolers, receiver tanks, and piping where debris, rust, and scale are commonly found.

Wilkerson® Automatic Drain Valves—For use with compressors up to 100 HP. Override feature on No. 5Z617 allows manual operation.

Pneumatic Zero Loss Condensate Drain—Helps powers through condensate build-up and has auto-adjust without any type of manual input. Ideal for compressor applications up to 25HP.

Description	Pipe Size	Drain Outlet Dia.	Max. Pressure	Operating Temp. Range	Min. Pressure	H	W	D	Brand	Mfr. Model	Item No.
WaterHog™ Drain Trap	½" NPT	½"	200 psi	33 to 170°F	40 psi	7½"	8¼"	9¾"	Grainger Approved	LH50-0LAAA	**49T493**
Pneumatic Zero Loss Condensate Drain	⅜" NPT	⅜"	200 psi	33° to 170°F	40 psi	7.2"	4"	4"	Grainger Approved	EH38-0LAAA	**53YE67**
Drain-All® Condensate Handler®	½" NPT	½"	170 psi	33 to 170°F	40 psi	11"	9¼"	10½"	Drain-All	DH50-0LAAA	**22PT26**
Drain-All® Pressure Handler®	½" NPT	½"	300 psi	33° to 170°F	40 psi	11"	9¼"	10½"	Drain-All	PH50-0MAAA	**36JN34**
Drain-All® Rust Handler®	½" NPT	½"	170 psi	33 to 170°F	40 psi	11"	9¼"	10½"	Drain-All	RH50-0LAAA	**22PT27**
Wilkerson® Automatic Drain Valve	¼" NPT	¼"	200 psi	32 to 150°F	30 psi	3 13/16"	2⅛"	2 15/16"	Wilkerson	X51-02-000	**4KT04**
Wilkerson® Automatic Drain Valve	½" NPT	⅛"	200 psi	32 to 150°F	20 psi	7"	3 1/16"	3"	Wilkerson	XB3-04-M00B	**5Z617**
Wilkerson® Automatic Drain Valve	½" NPT	⅛"	200 psi	32 to 150°F	20 psi	8½"	4¾"	4¾"	Wilkerson	X01-04-M00	**5Z620**


No. 13X520


No. 38XT70

SPEEDAIRE

Zero Air Loss Drain Valves

Can discharge condensate without the loss and waste of compressed air. Electronic models have a sensor to open and close the valve, while float drains use a float mechanism to operate the valve. Valves with 90 to 260V are compatible with 115V and 230V.

Inlet/Outlet	Compressor Performance	Max. Pressure	No. of Inlets	Voltage	Operating Temp. (°F) Min./Max.	H	W	D	Item No.
Electronic No-Loss Drains, Level-Sensor-Operated									
½ / ⅜" NPT	247 cfm	230 psi	2	90 to 260	36 to 180	6"	3"	5¾"	**13X517**
½ / ½" NPT	177 cfm	230 psi	2	90 to 260	36 to 180	6"	2½"	5¾"	**13X516**
	530 cfm	230 psi	2	90 to 260	36 to 180	7"	2½"	6 1/10"	**13X518**
	530 cfm	725 psi	2	90 to 260	36 to 180	7"	2½"	6 1/10"	**13X519**
	1766 cfm	230 psi	2	90 to 260	36 to 180	7"	3"	7"	**13X520**
¾ / ½" NPT	5298 cfm	230 psi	3	90 to 260	36 to 180	8"	4 5/16"	8½"	**13X521**

Pipe Size	Drain Outlet Dia.	Max. Pressure	Operating Temp. Range	Min. Pressure	H	W	D	Item No.
Float-Operated No-Loss Drains for Lubricated Compressors								
½" NPT	⅜"	44 psi	32° to 125°F	12 psi	6⅜"	3⅜"	7⅖"	**38XT70**
	⅜"	144 psi	32° to 125°F	44 psi	6⅜"	3⅜"	7⅖"	**38XT28**
	⅜"	232 psi	32° to 125°F	145 psi	6⅜"	3⅜"	3 3/10"	**38XT20**
¾" NPT	½"	44 psi	32° to 125°F	12 psi	5 1/10"	5½"	3 3/10"	**38XT65**
	½"	144 psi	32° to 125°F	44 psi	5 1/10"	5½"	3 3/10"	**38XT41**
	½"	232 psi	32° to 125°F	145 psi	5 1/10"	5½"	3 3/10"	**38XT35**
Float-Operated No-Loss Drains for Non-Lubricated Compressors								
½" NPT	⅜"	44 psi	32° to 125°F	12 psi	6⅜"	3⅜"	7⅖"	**38XT02**
	⅜"	144 psi	32° to 125°F	44 psi	6⅜"	3⅜"	7⅖"	**38XR78**
	⅜"	232 psi	32° to 125°F	145 psi	6⅜"	3⅜"	7⅖"	**38XR67**
¾" NPT	½"	44 psi	32° to 125°F	12 psi	5 1/10"	5½"	3 3/10"	**38XR63**
	½"	144 psi	32° to 125°F	44 psi	5 1/10"	5½"	3 3/10"	**38XR47**
	½"	232 psi	32° to 125°F	145 psi	5 1/10"	5½"	3 3/10"	**38XT58**


No. 15X898


No. 15X873

CONRADER

Air Safety Valves

Soft-seat type. Brass valves have silicone seals. Stainless steel valves have Viton® seals. An even larger assortment of air safety valves is available on Grainger.com®.

(M)NPT Inlet (in.)	Preset Setting (psi)	Rated CFM @ Set Pressure	Mfr. Model	Item No.
Brass				
½	50	233	SRV530-1/2-050	**15X910**
	60	270	SRV530-1/2-060	**15X911**
	75	325	SRV530-1/2-075	**15X912**
	100	417	SRV530-1/2-100	**15X913**
	125	509	SRV530-1/2-125	**15X914**
	150	601	SRV530-1/2-150	**15X915**
	175	694	SRV530-1/2-175	**15X916**
	200	786	SRV530-1/2-200	**15X917**
	225	878	SRV530-1/2-225	**15X918**
	250	970	SRV530-1/2-250	**15X919**
	275	1062	SRV530-1/2-275	**15X920**
	300	1154	SRV530-1/2-300	**15X921**
¾	50	233	SRV530-3/4-050	**15X898**
	60	270	SRV530-3/4-060	**15X899**
	75	325	SRV530-3/4-075	**15X901**
	100	417	SRV530-3/4-100	**15X902**
	125	509	SRV530-3/4-125	**15X903**
	150	601	SRV530-3/4-150	**15X904**
	175	694	SRV530-3/4-175	**15X905**
	200	786	SRV530-3/4-200	**15X906**
	225	878	SRV530-3/4-225	**15X907**
	250	970	SRV530-3/4-250	**15X908**
	300	1154	SRV530-3/4-300	**15X909**
1	50	497	SRV765-1-050	**15X922**
	60	575	SRV765-1-060	**15X923**
	75	693	SRV765-1-075	**15X924**
	100	889	SRV765-1-100	**15X925**
	125	1085	SRV765-1-125	**15X926**
	150	1281	SRV765-1-150	**15X927**
	175	1477	SRV765-1-175	**15X928**
	200	1674	SRV765-1-200	**15X929**
	225	1870	SRV765-1-225	**15X930**
	250	2066	SRV765-1-250	**15X931**
	275	2262	SRV765-1-275	**15X932**
	300	2458	SRV765-1-300	**15X933**
1¼	75	693	SRV765-114-075	**15X934**
	100	889	SRV765-114-100	**15X935**
	125	1085	SRV765-114-125	**15X936**
	150	1281	SRV765-114-150	**15X937**
	175	1477	SRV765-114-175	**15X938**
	200	1674	SRV765-114-200	**15X939**
	225	1870	SRV765-114-225	**15X940**
	250	2066	SRV765-114-250	**15X941**
	275	2262	SRV765-114-275	**15X942**
	300	2458	SRV765-114-300	**15X943**
Stainless Steel				
¼	50	51	SRV250-V-SS-050	**15X862**
	60	59	SRV250-V-SS-060	**15X863**
	75	71	SRV250-V-SS-075	**15X864**
	100	92	SRV250-V-SS-100	**15X865**
	125	112	SRV250-V-SS-125	**15X866**
	150	132	SRV250-V-SS-150	**15X867**
	175	153	SRV250-V-SS-175	**15X868**
	200	173	SRV250-V-SS-200	**15X869**
	225	194	SRV250-V-SS-225	**15X870**
	250	214	SRV250-V-SS-250	**15X871**
	275	234	SRV250-V-SS-275	**15X872**
	300	255	SRV250-V-SS-300	**15X873**
	325	275	SRV250-V-SS-325	**15X874**
	350	295	SRV250-V-SS-350	**15X875**
½	50	108	SRV390-1/2-V-SS-050	**15X876**
	60	125	SRV390-1/2-V-SS-060	**15X877**
	75	150	SRV390-1/2-V-SS-075	**15X878**
	100	193	SRV390-1/2-V-SS-100	**15X879**
	125	235	SRV390-1/2-V-SS-125	**15X880**
	150	278	SRV390-1/2-V-SS-150	**15X881**
	175	321	SRV390-1/2-V-SS-175	**15X882**
	200	363	SRV390-1/2-V-SS-200	**15X883**
	225	406	SRV390-1/2-V-SS-225	**15X884**
	250	449	SRV390-1/2-V-SS-250	**15X885**
	300	534	SRV390-1/2-V-SS-300	**15X886**
¾	50	233	SRV530-3/4-V-SS-050	**15X887**
	60	270	SRV530-3/4-V-SS-060	**15X888**
	75	325	SRV530-3/4-V-SS-075	**15X889**
	100	417	SRV530-3/4-V-SS-100	**15X890**
	125	509	SRV530-3/4-V-SS-125	**15X891**
	150	601	SRV530-3/4-V-SS-150	**15X892**
	175	694	SRV530-3/4-V-SS-175	**15X893**
	200	786	SRV530-3/4-V-SS-200	**15X894**
	225	878	SRV530-3/4-V-SS-225	**15X895**
	250	970	SRV530-3/4-V-SS-250	**15X896**
	300	1154	SRV530-3/4-V-SS-300	**15X897**



No. 6D915



No. 5A709 | No. 4TK15 | No. 4TK26

control devices, LLC

Safety Valves

Adjustable Noncode—Pressure range of 25 to 200 psi. Features brass body with silicone rubber seal and stainless steel springs. 9/16" hex body x 1.56"L.

Adjustable Vacuum/Pressure—Easily convert from vacuum to pressure relief by reversing poppet and spring. Relieve vacuums from 0" to 30" Hg or pressure to 20 psi.

ASME Hard-Seat—Lead seal allows visual detection of tampering. Brass body, stainless steel ball on brass seat and stainless steel spring. External threads coated with thread sealant.

Note: Pressure Settings are available on Grainger.com®.

ASME Soft-Seat—1-pc. brass body has resilient silicone elastomer O-ring for a leakproof seal. External threads are coated with thread sealant.

Note: Pressure Settings are available on Grainger.com®.

High-Capacity ASME—Brass bodies with stainless steel springs and silicone O-ring seals.

Threaded Outlet ASME—Valves feature brass/stainless steel construction. Silicone rubber O-ring seal and lead seal.

Variable Pressure—May be used wherever a low-flow variable pressure relief valve is used. Micrometer-style scale, 0 to 100 psi. Brass body/nylon knob. Stainless steel poppet/fluorocarbon O-ring.

Preset Setting (psi)	(M)NPT Inlet (in.)	(F)NPT Outlet (in.)	Rated CFM @ Set Pressure	Mfr. Model	Item No.
Adjustable Noncode Pressure Relief Valve - Max. 250°F					
25 to 200	1/4	—	—	NC25-1UK002	6D915
Adjustable Vacuum/Pressure Relief Valves - Max. 250°F					
0 to 14.7	1/4	—	—	VR25-100	5Z763
	3/8	—	—	VR38-100	5Z764
	3/4	—	—	VR75-100	5Z765
	1	—	—	VR10-013	3ETU7
0 to 20	1/4	—	2	PR25-000	36JN35
	3/8	—	5	PR38-000	36JN37
50 to 125	1/4	—	2	PR25-008	36JN36
ASME Hard-Seat Air Safety Valves - Max. 400°F					
125	1/2	—	266	SN50-1A125	4TK23
150	1/2	—	314	SN50-1A150	4TK24
165	1/4	—	140	SA25-1L165	5A714
200	1/4	—	168	SA25-1L200	5A715
	3/8	—	168	SA38-1L200	5A716
	1/2	—	411	SN50-1A200	4TK25
ASME Soft-Seat Air Safety Valves - Max. 250°F					
60	1/4	—	61	ST25-1A060	5A707
75	1/8	—	74	ST2512-1A075	5LGJ5
125	1/4	—	115	ST25-1A125	5A708
	1/2	—	232	SF50-1A125	6D924
150	1/4	—	136	ST25-1A150	5A709
	1/2	—	274	SF50-1A150	6D925
200	1/4	—	178	ST25-1A200	5A710
	3/8	—	178	ST2533-1A200	5A711
	1/2	—	358	SF50-1A200	6D926
High-Capacity ASME Air Safety Valves - Max. 250°F					
125	3/4	—	504	SB75-0A125	6D922
	1	—	1053	SW10-0A125	6D920
150	3/4	—	595	SB75-1A150	6D923
	1	—	1244	SW10-0A150	6D921
Threaded Outlet ASME Safety Valves - Max. 250°F					
125	1/2	3/4	496	SCB5075-0A125	4TK17
	1/2	1	496	SCB5010-0A125	4TK15
	3/4	3/4	496	SCB7575-0A125	4TK21
	3/4	1	496	SCB7510-0A125	4TK19
150	1/2	3/4	586	SCB5075-0A150	4TK18
	1/2	1	586	SCB5010-0A150	4TK16
	3/4	3/4	586	SCB7575-0A150	4TK22
	3/4	1	586	SCB7510-0A150	4TK20
Variable Pressure - Max. 250°F					
1 to 100	1/4	—	—	CR25-100	4TK26



No. 6X209



No. 6X213



No. 2A165



No. 4X829

control devices, LLC CONRADER

Check Valves

Compact—Brass body check valves, stainless steel spring, and stainless steel ball on Viton® O-ring. Max. pressure: 250 psi.

Compressor In-Tank and Valves For Tubing—Brass body, fluoropolymer poppet, and stainless steel springs. Max. pressure: 400 psi. External threads coated with thread sealant. 1/8" (F)NPT tapped unloader port with removable plug.

Bronze—Valves open at less than 3 psi; withstand up to 400 psi back pressure. 1/8" tap for pressure switch unloader connection. Vertical or horizontal mounting.

Unloader and Check Valves—Brass body, PTFE seals, and stainless steel springs. Max. working pressure: 250 psi. Nos. 5A703 to 5A706 have (F)NPT inlet and (M)NPT outlet to tank. Nos. 4X996 to 4X999 are threaded to accept compression fitting at inlet.

In-line—Valves open at less than 1 psi with max. operating pressure of 400 psi. All-brass bodies with glass-filled PTFE poppets and stainless steel springs. Nos. 4X828 and 4X829 have 1/8" (F)NPT tapped port for pressure switch unloader connection.

Inlet (in.)	Outlet (in.)	Flow Range Free Air (cfm)	Max. Temp. (°F)	L (in.)	Mfr. Model	Brand	Item No.
Compact							
1/4 (M)NPT	1/4 (M)NPT	1 to 9	250	1 1/3	M2525-1WA	Control Devices	6D914
1/4 (F)NPT	1/4" (M)NPT	1 to 9	250	1 1/16	P2525-1WA	Control Devices	6D917
Compressor In-Tank							
3/8 (F)NPT	1/2 (M)NPT	0 to 20	400	2 3/4	P3850-1EP	Control Devices	6X207
1/2 (F)NPT	1/2 (M)NPT	0 to 20	400	3	P5050-1EP	Control Devices	6X208
3/4 (F)NPT	3/4 (M)NPT	0 to 30	400	3 1/4	P7575-1EP	Control Devices	6X209
3/4 (F)NPT	1 (M)NPT	0 to 60	400	3 1/2	P7510-1EP	Control Devices	6D918
1 (F)NPT	1 (M)NPT	0 to 60	400	3 7/8	P1010-1EP	Control Devices	6X210
1 1/4 (F)NPT	1 1/4 (M)NPT	0 to 130	400	4 3/8	P1212-1EP	Control Devices	6X211
Valves for Tubing - Inlet Thread for Compression Fitting							
1/2 O.D.	1/2 (M)NPT	0 to 20	400	2 7/8	C5050-1EP	Control Devices	6X213
3/4 O.D.	1/2 (M)NPT	0 to 30	400	3	C7550-1EP	Control Devices	6X214
3/4 O.D.	3/4 (M)NPT	0 to 30	400	3 1/2	C7575-1EP	Control Devices	6X215
3/4 O.D.	1 (M)NPT	0 to 30	400	3 7/8	C7510-1EP	Control Devices	6X216
Bronze							
1/8 (F)NPT	1/8 (F)NPT	0 to 12	450	1 3/4	CB13	Control Devices	6D906
1/4 (F)NPT	1/4 (F)NPT	0 to 12	450	1 3/4	CB25	Control Devices	5X780
3/8 (F)NPT	3/8 (F)NPT	0 to 22	450	2 3/16	CB33	Control Devices	5X781
1/2 (F)NPT	1/2 (F)NPT	0 to 38	450	2 1/2	CB50	Control Devices	5X782
3/4 (F)NPT	3/4 (F)NPT	0 to 60	450	2 7/8	CB75	Control Devices	5X783
1 (F)NPT	1 (F)NPT	0 to 115	450	3 1/2	CB10	Control Devices	2A165
1 1/4 (F)NPT	1 1/4 (F)NPT	0 to 160	450	3 7/8	CB12	Control Devices	2A166
1 1/2 (F)NPT	1 1/2 (F)NPT	0 to 160	450	4 1/8	CB15	Control Devices	6D907
2 (F)NPT	2 (F)NPT	0 to 220	450	4 1/2	CB20	Control Devices	6D908
Unloader and Check Valves							
Unloader							
1/8	—	0 to 1	250	5/8	CS12-100	Control Devices	36JN38
1/4	—	0 to 2	250	49/64	CS25-100	Control Devices	36JN39
Unloader, NPT Inlet							
1/4 (F)NPT	1/4 (M)NPT	1 to 6	450	1 3/4	PA6-1A	Control Devices	5A703
3/8 (F)NPT	3/8 (M)NPT	3 to 12	450	1 13/16	PA12-1A	Control Devices	5A704
1/2 (F)NPT	1/2 (M)NPT	8 to 24	450	2 1/4	PA24-1A	Control Devices	5A705
3/4 (F)NPT	3/4 (M)NPT	15 to 48	450	2 3/8	PA48-1A	Control Devices	5A706
Unloader Check Valves, Compression Fit Inlet							
3/8 O.D.	1/4 (M)NPT	1 to 6	450	1 9/16	CA6-1A	Control Devices	4X996
1/2 O.D.	3/8 (M)NPT	3 to 12	450	1 11/16	CA12-1A	Control Devices	4X997
3/4 O.D.	1/2 (M)NPT	8 to 24	450	2 1/8	CA24-1A	Control Devices	4X998
3/4 O.D.	3/4 (M)NPT	15 to 48	450	2 3/16	CA48-1A	Control Devices	4X999
In-Line							
1/4 (F)NPT	1/4 (F)NPT	0 to 12	400	2 1/8	IC25-AB	Control Devices	3ETU5
3/8 (F)NPT	3/8 (F)NPT	0 to 12	400	2 1/8	IC38-AB	Control Devices	3ETU6
1/2 (F)NPT	1/2 (F)NPT	0 to 20	400	2 7/8	IC50	Control Devices	4X828
3/4 (F)NPT	3/4 (F)NPT	0 to 30	400	3 1/4	IC75	Control Devices	4X829
1 (F)NPT	1 (F)NPT	60	450	4	CLB1	Conrader	12U306
1 1/2 (F)NPT	1 1/2 (F)NPT	90	450	4 1/2	CLB112112-HF-FS	Conrader	12U307



No. 3X818



No. 39EN81

control devices, LLC CONRADER

Unloader Pilot Valves

Use on compressors with suction valve head unloaders. Easy opening manual unloader sleeve allows start-up under no load conditions. Forged brass body; stainless steel springs and ball. No. 3X818 includes 1/4" x 1/4" (M)NPT adapter.

Pressure Range (psi)	(F)NPT Outlet (in.)	Preset Setting (psi)	Max. Temp. (°F)	Max. Working Pressure (psi)	Mfr. Model	Brand	Item No.
95 to 250	1/8	—	350	250	P25G-F	Control Devices	3X818
20 to 1200	3/8	95 to 125	350	1200	RCL-S-HU-95-125	Conrader	39EN84
20 to 1200	3/8	125 to 150	350	1200	RCL-S-HU-125-150	Conrader	39EN81
20 to 1200	3/8	145 to 175	350	1200	RCL-S-HU-145-175	Conrader	39EN82


No. 4TK14


No. 15X944

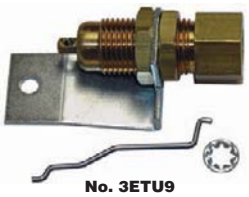
CONRADER control devices, LLC

Continuous Run Unloader Controls

Convert any pressure switch control compressor to a constant speed unloader type. Can be applied to any 30 cfm or less electric or gas engine-driven compressor. 60 to 250 adjustable psi range preset to cut in at 95 psi and out at 115 psi. Contain: pilot valve, check valve, and suction or vent unloader valve.

Pressure Range (psi)	Inlet (in.)	Outlet (in.)	Brand	Item No.
40 to 250	⅜	⅜	Conrader	12U308
60 to 250	½	½	Control Devices	4TK14
95-125	¾	¾	Conrader	15X944
145-175	¾	¾	Conrader	15X945


No. 12U303


No. 3ETU9


No. 6D928

CONRADER control devices, LLC

Engine-Driven Compressor Throttle Controls

Can be used with all makes of unloader controls and pilot valves to throttle engine back to idle whenever compressor is unloaded. 8 HP compressors or less. ⅛" (M)NPT. No. 3ETU9 is engine-mounted. Cable throttle controls have stainless steel cables and fit all major engine types, 8 HP and higher.

(M)NPT Size (in.)	Fits	Brand	Mfr. Model	Item No.
Airline Throttle Control				
¼	Honda Engines 5½ to 6½ HP	Conrader	TCSP-H-5565-B	12U303
	Honda Engines 8 to 9 HP	Conrader	TCSP-H-0809-B	12U304
	Honda Engines 11 to 13 HP	Conrader	TCSP-H-1113-B	12U305
⅛	Honda GX160	Conrader	TCSA-5565S-SC	29FK75
	Kohler 9.8 hp	Conrader	TCSA-KD420	29FK80
	Kohler 18 hp	Conrader	TCXLIW-KDW702	29FK81
	Kohler 14 hp	Conrader	TCXLPW-3-M1-B2-IC-SST	29FK82
	Robin Engine 4.5-5.5 hp	Conrader	TCSA-R-4565-HC	29FK83
Pneumatic Driven Compressor Throttle Control				
⅛	Honda 5.5 HP Stroke: ⅜"	Control Devices	TC63-4KA000	3ETU9

(M)NPT Size (in.)	Min. Pressure (psi)	Cable Length (in.)	Brand	Mfr. Model	Item No.	
Cable Throttle Control						
⅛	40	18	Conrader	TCLP-18	12U309	*
		24	Conrader	TCLP-24	12U310	*
		36	Conrader	TCLP-36	12U311	*
		48	Conrader	TCLP-48	12U312	*
		—	Conrader	TCMA-H39-LB	29FK74	
	60	18	Control Devices	TC12-1AA018	6D928	
		24	Control Devices	TC12-1AA024	6D929	
		48	Control Devices	TC12-1AA048	6D930	
	100	24	Conrader	TCXLPW-24	29FK76	†
		36	Conrader	TCXLPW-36	29FK77	†
		48	Conrader	TCXLPW-48	29FK78	†
		54	Conrader	TCXLPW-54	29FK79	†

Pressure Range (psi)	Inlet (in.)	Outlet (in.)	Brand	Mfr. Model	Item No.
Unloader Pilot Valves					
100 to 125	¼	⅛	Conrader	RCB-M-HU-100-125	29FK86
111 to 133	¼	⅛	Conrader	RCB-M-HU-111-133	29FK87

** 16-lb. spring force. † 29-lb. spring force.*

Inlet/Discharge Silencers

SOLBERG

Reduce noise levels by 5dBA. Can be used on inlet and outlet side and in the pressure relief valve circuit.

Inlet/ Outlet (in.)	Dim. (in.) L	Dia.	Mfr. Model	Item No.
½ (M)NPT	14½	2½	SLCRT050	3TKY6
¾ (M)NPT	14½	2½	SLCRT075	3TKY7
1 (F)NPT	12	2½	SLCR-100	4FY56
1 (M)NPT	14½	2½	SLCRT100	3TKY8
1¼ (F)NPT	12	2½	SLCR-125	4FY58
1¼ (M)NPT	14½	2½	SLCRT125	3TKY9
1½ (F)NPT	12	3	SLCR-150	4FY60
1½ (M)NPT	14	3⅛	SLCRT150	3TKZ1
2 (F)NPT	15¾	3½	SLCR-200	4FY62
2 (M)NPT	18½	3⅝	SLCRT200	3TKZ2
2½ (F)NPT	21	4½	SLCR-250	4FY64
2½ (M)NPT	23 1/16	4⅝	SLCRT250	3TKZ3
3 (F)NPT	26	5	SLCR-300	4FY66
3 (M)NPT	28	5⅛	SLCRT300	3TKZ4
4 (F)NPT	23⅞	10	SLCR400	3TKY5
4 (M)NPT	29 5/16	10	SLCRT400	3TKZ5


No. 4FY56


No. 3TKZ4


No. 1TBZ9


No. 5JRD0

SOLBERG

Positive Displacement (PD) Blower Replacement Filter Cartridges

Feature paper or polyester filter elements and retrofit most common PD blower filter housings to help maintain proper air flow and extend blower life.

Dia. (in.) Inside	Outside	H (in.)	Mfr. Model	Item No.
Paper				
4	5 1/16	2	32-00	5JRC6
4¼	6	2½	32-02	1TBZ9
7¼	9¾	4	32-04	1TCA1
	9¾	6	32-06	1TCA2
9⅞	11½	7	32-08	1TCA3
11⅝	13⅜	8⅝	32-10	1TCA4
13	17	10	32-12	5JRC7
19	23	14	32-14	5JRC8
Polyester				
4	5 1/16	2	32-01	5JRC9
4¼	6	2½	32-03	5JRD0
7¼	9¾	4	32-05	5JRD1
	9¾	6	32-07	5JRD2
9⅞	11½	7	32-09	5JRD3
11⅝	13⅜	8⅝	32-11	5JRD4
13	17	10	32-13	5JRD5
19	23	14	32-15	5JRD6

Oil Mist Exhaust Filters and Replacement Filter Elements

SOLBERG

- Carbon steel bowl type
- Manual drain recirculates oil back to pump
- 0.3-micron, multilayered glass media replacement elements
- Temp. range: 68° to 180°F

Exhaust filters trap oil fog, mist, or smoke from discharge of oil-flooded vacuum pumps and return oil to pump before oil mist contaminates work environment. Feature large oil holding capacity. Pleated coalescing element provides increased surface area to minimize back pressure of system and maximize filtration efficiency. O-ring seals prevent leakage.


No. 3TLH5

Pipe Size	Max. Flow	Overall H	Overall W	Mfr. Model	Item No.
Oil Removal Filters					
1" FNPT	50 cfm	6.75"	7.31"	HDL-PSG848-100HC	3TLH1
1½" FNPT	50 cfm	6.75"	7.31"	HDL-PSG848-150HC	3TLH2
2" FNPT	125 cfm	11.25"	8.75"	HDL-PSG850/1-200HC	3TLH3
2" FNPT	200 cfm	17.50"	8.75"	HDL-PSG860/1-200HC	3TLH4
2½" FNPT	300 cfm	16.00"	15.25"	HDL-PSG244/2-250C	3TLH5
3" MNPT	300 cfm	31.12"	14.00"	HDL-PSG344/2-300	3TLH6
4" MNPT	500 cfm	31.12"	14.00"	HDL-PSG344/2-400	3TLH7
5" MNPT	800 cfm	38.12"	18.50"	HDL-PSG474/2-500	3TLH8
6" MNPT	1100 cfm	39.18"	18.50"	HDL-PSG474/2-600	3TLH9
8" Flange NPT	1800 cfm	38.81"	21.00"	HDL-PSG476-800F	3TLJ1

For Use with Stock No.	Mfr. Model	Item No.
Filter Elements		
3TLH1, 3TLH2	PSG848	3TLL9
3TLH3	PSG850/1	3TLN1
3TLH4	PSG860/1	3TLN2
3TLH5	PSG244/2	3TLN3
3TLH6, 3TLH7	PSG344/2	3TLN4
3TLH8, 3TLH9	PSG474/2	3TLN5
3TLJ1	PSG476	3TLN6


No. 3TLL9

For Inlet Vacuum Pump, Injectors, Pads, Filters & Regulators, go to Grainger.com®



No. 6JD03



No. 3TLG3

SOLBERG

Inlet Vacuum Filters and Separators for Blowers and Vacuum Pumps

Note: For additional standard- and extreme-duty filters, see Grainger.com®.

"L" Style Filters—Install on the inlet of any type of vacuum pump/blower. Filters have O-ring seals and polyester replacement elements. Fitlers are rated for vacuum service.

"T" Style Filters—Cast-aluminum top resists corrosion and has an integrated baffle for longer filter element life.

Inlet (in.)	Max. Flow (cfm)	H (in.)	Dia. (in.)	Mfr. Model	Item No.
"L" Style Filters, Carbon Steel					
⅜ (F)NPT	18	3⅜	3¾	CSL-825-038HC	**6JC97**
½ (F)NPT	18	3⅜	3¾	CSL-825-050HC	**6JC98**
¾ (F)NPT	25	4⅜	5⅞	CSL-843-075HC	**6JC99**
1 (F)NPT	40	6½	7⁵⁄₁₆	CSL-849-100HC	**6JD01**
1¼ (F)NPT	55	4⅜	5⅞	CSL-843-125HC	**4FY76**
1¼ (F)NPT	60	6½	7⁵⁄₁₆	CSL-849-125HC	**6JD02**
1½ (F)NPT	80	6½	7⁵⁄₁₆	CSL-849-150HC	**6JD03**
2 (F)NPT	175	10¼	8¾	CSL-851-200HC	**6JD04**
2½ (F)NPT	210	10½	8¾	CSL-851-250HC	**4FY77**
3 (F)NPT	300	15¾	13¼	CSL-239-300C	**5JRD8**
3 (M)NPT	300	27⅛	14	CSL-235P-300	**3TLE6**
4 Flange	520	27⅛	14	CSL-235P-400F	**3TLF5**
4 (M)NPT	520	27⅛	14	CSL-235P-400	**3TLE8**
5 Flange	800	28⅛	18½	CSL-245P-500F	**3TLF7**
5 (M)NPT	800	28⅛	18½	CSL-245P-500	**3TLF1**
6 Flange	1100	29⅛	18½	CSL-275P-600F	**3TLF9**
6 (M)NPT	1100	29⅛	18½	CSL-275P-600	**3TLF3**
8 Flange	1800	38	22½	CSL-377P-800F	**3TLG2**
10 Flange	2900	57½	26⁷⁄₁₆	CSL-685P-1000F	**5JRD7**
"T" Style Filters, Aluminum Head, Polycarbonate Bucket					
1 (F)NPT	40	13⅜	7	ST-897-100C	**46F384**
1¼ (F)NPT	60	13⅜	7	ST-897-125C	**46F385**
1½ (F)NPT	80	13⅜	7	ST-897-150C	**46F386**
2 (F)NPT	175	16¼	9	ST-851/1-200C	**3TLG3**
2 ½ (F)NPT	210	16¼	9	ST-851/1-250C	**3TLG4**
3 (F)NPT	300	19¾	13½	ST-235P-300C	**3TLG5**
4 (F)NPT	520	19¾	13½	ST-235P-400C	**3TLG6**



No. 5JPZ5

SOLBERG

Liquid Separators for Blowers and Vacuum Pumps

- See-through drop bucket
- Manual drain type
- Cast-aluminum head

Separate liquid, debris, and sludge from the air stream to protect pump from damage; integrated float ball cuts off airflow when the liquid level reaches max. capacity. Use with regenerative blowers in food packaging, soil remediation, and metal/chip processing applications, as well as with vacuum pumps and systems.

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
1¼" NPT	60 cfm	13⅜""	7"	STS-125C	**38XT78**
1½" NPT	80 cfm	13⅜"	7"	STS-150C	**38XT76**
1" NPT	40 cfm	13⅜"	7"	STS-100C	**38XT77**
2" NPT	175 cfm	16.75"	9"	STS-200C	**5JPZ5**
2½" NPT	210 cfm	16.75"	9"	STS-250C	**5JPZ6**
3" NPT	300 cfm	19.75"	13.5"	STS-300C	**5JPZ7**
4" NPT	500 cfm	19.75"	13.5"	STS-400C	**5JPZ8**

Filter Silencers and Replacement Cartridges

SOLBERG

Filter Silencer, Carbon Steel Housing —Silencing tubes decrease noise levels.

Filter with Hood, Carbon Steel Housing—For use where noise reduction is not necessary.

Note: For additional filter silencers, see Grainger.com®.



No. 5Z665



No. 1R416

	POLYESTER	PAPER
99% Efficient at 5 Microns	•	
99% Efficient at 2 Microns		•
Handles Hot Air and Oil from Unload Cycle	•	
For Outdoor High-Moisture Applications	•	
Washable and Durable	•	
Disposable and Convenient		•

Outlet (in.)	Max. Flow (cfm)	H (in.)	Dia. (in.)	Mfr. Model	Item No.
Filter Silencer, Carbon Steel Housing					
¼ (M)NPT	4	2¾	2½	FS-04-025	**5Z766**
⅜ (M)NPT	6	2¾	2½	FS-04-038	**5Z767**
½ (M)NPT	10	3¹³⁄₁₆	3¼	FS-06-050	**5Z665**
	12	4⅛	4⅛	FS-10-050	**4FY36**
¾ (M)NPT	25	4	6	FS-15-075	**4Z679**
1 (M)NPT	35	4	6	FS-15-100	**4Z680**
	55	6⅝	6	FS-19P-100	**5JPZ9**
1¼ (M)NPT	70	6⅝	6⅛	FS-19P-125	**4Z681**
1½ (M)NPT	85	6⅝	6	FS-19P-150	**4Z682**
2 (M)NPT	135	7¼	10	FS-31P-200	**4FY33**
	135	12¼	10	FS-231P-200	**3RAU8**
2½ (M)NPT	195	7½	10	FS-31P-250	**4FY34**
	195	12½	10	FS-231P-250	**3RAU9**
3 (M)NPT	300	12¼	10	FS-231P-300	**4FY35**
4 (M)NPT	520	14	16	FS-275P-400	**3RAV2**
	520	14	16	FS-235P-400	**1TBZ7**
5 Flange	800	14	16	FS-275P-500F	**3TKX5**
6 Flange	1100	15	16	FS-275P-600F	**3TKX6**
8 Flange	1800	23	22½	FS-377P-800F	**3TKX8**
Filter with Hood, Carbon Steel Housing					
½ (M)NPT	10	4	6	F-15-050	**3TKZ6**
¾ (M)NPT	25	4	6	F-15-075	**3TKZ7**
1 (M)NPT	35	4	6	F-15-100	**3TKZ8**
	55	6⅝	6	F-19P-100	**3TKZ9**
1¼ (M)NPT	70	6⅝	6	F-19P-125	**3TLA1**
1½ (M)NPT	85	6⅝	6	F-19P-150	**3TLA2**
2 (M)NPT	135	7¼	7¾	F-31P-200	**3TLA3**
	135	12¼	12¼	F-231P-200	**3TLA4**
2½ (M)NPT	195	7½	7½	F-31P-250	**3TLA5**
2½ (M)NPT	195	12½	12½	F-231P-250	**3TLA6**
3 (M)NPT	300	13	10	F-235P-300	**3TLA7**
	300	13	16	F-275P-300	**3TLA8**
4 (M)NPT	520	14	10	F-235P-400	**3TLA9**
5 (M)NPT	800	14	16	F-275P-500	**3TLC2**
6 (M)NPT	1100	15	16	F-275P-600	**3TLC3**
6 Flange	1100	15	16	F-275P-600F	**3TLC6**
	1100	22	22½	F-377P-600F	**3TLC7**
8 Flange	1800	23	22½	F-377P-800F	**3TLC8**

For Use with Blower No.	H (in.)	Inside Dia. (in.)	Outside Dia. (in.)	Mfr. Model	Item No.
Replacement Cartridges					
Paper					
4FY28, 4FY29	1	—	1⅛	02	**4FY37**
FS-04-025, FS-04-038, PS-04-025, PS-04-038, PS-04-050, SS3 Bare, SS3L3	1	—	2¼	04	**5Z768**
1WF74	1⅜	—	4	10	**4FY38**
FS-06-050, FS-06-050	1⅜	—	3	06	**5Z666**
FS-15-075, FS-15-100, 5Z660, 5Z661, VFD2S, VFD3S	2⁵⁄₁₆	3	4⅜	14	**5A717**
CSL-825-038HC, CSL-825-050HC	2¹¹⁄₁₆	1½	2½	824	**3TLL4**
VFD2, VFD2S, VFD3, VFD3S	2¾	2⅜	3⅞	842	**3TLL5**
VFD4, VFD42, VFD42S	4¾	2⁹⁄₁₆	5	848	**3TLL6**
FS-19P-125, FS-19P-150, 5Z662, 5Z663, VFC084P-5T, VFC200P-5T, VFC063P-1T, VFC200A-7W, VFC300P-5T, VFC300A-7W, VFD2, VFD2S, VFD3, VFD3S	4¾	3	4⅜	18P	**5A718**
2EPP2, 2EPP3, 2EPP4, 2EPP5	4¾	3⅝	5¾	30P	**3TLK2**
VFC600A-7W, VFC700A-7W, VFD5, VFD5D, VFD9	8⅝	3½	5⅞	850	**3TLL7**
2EPP1, 2EPP2, 2EPP3, 2EPP4	8⅝	3½	5⅞	850/1	**3TLL8**
2EPP2, 2EPP3, 2EPP4, 2EPP5, 2EPP6, 2EPR1, 2EPR2	9½	3⅝	5¾	230P	**3TLK3**
2EPR3, 2EPR4, 2EPP8	9⅝	4¾	7⅞	234P	**3TLK4**
2EPT4, 2EPT5	9⅝	6	9¾	244P	**3TLK6**
2EPR7, 2EPR9, 2EPT1	9⅝	8	11¾	274P	**3TLK8**
5F243, 6JD32, 2EPR3, 2EPR4, 2EPT8, 2EPT9,	10	4⅞	9¼	238	**5JPW1**
2EPR7, 2EPR9	14½	4¾	7⅞	334P	**3TLK5**
2EPT4 to 5	14½	6	9¾	344P	**3TLK7**
2EPU1 to 2	14½	8	11¾	374P	**3TLK9**
VFT65-2, 2EPU3, 2EPU4	14½	9	14⅝	376P	**3TLL1**
1XDX2 to 3	14½	14	19⅝	384P	**3TLL2**
1XDX4	21½	14	19⅝	484P	**3TLL3**
Polyester					
VFD2S, VFD3S	2⁹⁄₁₆	3	4⅜	15	**1R416**
CSL-825-038HC, CSL-825-050HC, CSL-825-038HC, CSL-825-050HC	2½	1½	2½	825	**6JC93**
CSL-843-075HC, IVF-01, VFD2, VFD2S, VFD3, VFD3S	2¾	2⅜	3⅛	843	**6JC94**
VFC084P-5T, VFC200P-5T, VFC063P-1T, VFC200A-7W, VFC300P-5T, VFC300A-7W, VFD2, VFD2S, VFD3, VFD3S	4¾	3	4⅜	19P	**1R417**
5Z188, 5Z651, 6JD27, 6JD28	4¾	3⅝	5¾	31P	**4FY39**
CSL-849-100HC, CSL-849-125HC, CSL-849-150HC, IVF-23, IVF-45, VFD4, VFD42, VFD42S	4⅞	2⁹⁄₁₆	5	849	**6JC95**
CSL-851-250HC, CSL-851-200HC, IVF-67, VFC600A-7W, VFC700A-7W, VFD5, VFD5D, VFD9	8¾	3½	5⅞	851	**6JC96**
5F243, 5Z189, 6JD30, 6JD31, 6JD32	9½	3⅝	5¾	231P	**4FY40**
CT-235P-300C, 235P, FS-235P-400, CT-235P-400C, VFC904A-7W, VFC800A-7W, VFD6D, VFD8, VFD9	9⅝	4¾	7⅞	235P	**4FY79**
VFT60-2, 2EPT4, 2EPT5	9⅝	6	9¾	245P	**3TLJ3**
VFT60-2, 2EPT6, 2EPT7, 2EPU1	9⅝	8	11¾	275P	**3TLJ4**
5F243, 6JD32, 2EPR3, 2EPR4, 2EPT8, 2EPT9,	10	4⅞	9¼	239	**5JPW0**
RD6, 2EPR3, 2EPR4, 2EPR7, 2EPR8	14½	4¾	7⅞	335P	**3TLJ2**
1XDW9, 2EPU1 to 2	14½	8	11¾	375P	**3TLJ5**
VFT65-2, 2EPU3, 2EPU4	14½	9	14⅝	377P	**3TLJ6**
1XDX2 to 3	14½	14	19⅝	385P	**3TLJ7**
1XDX4	21½	14	19⅝	485P	**3TLJ8**
2EPU3 to 4	28½	14	19⅝	685P	**3TLJ9**

For Rotary Vane Air Motor Maintenance Kits, go to Grainger.com®

SPEEDAIRE®

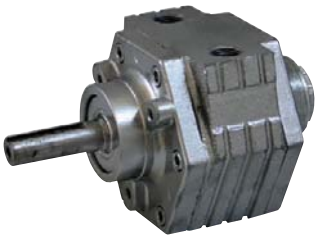
Rotary Vane Air Motors

- Max. temp.: 250°F
- Variable speed

Use these compact, low-maintenance air motors in applications that would normally require similar, but more-expensive explosionproof electric motors. Can be operated in extreme temperatures. Cast-iron models include discharge muffler.



No. 22UX55



No. 22UX45



No. 22UX58

HP	Running Torque @ Max. Pressure	Max. Air Flow	No Load RPM	Shaft Dia.	Mounting	Port Size	Rotation*	Item No.
Cast-Iron Air Gearmotors								
0.32	49.00 in.-lb.	21 cfm	400	½"	Face	⅛" NPT	REV	**22UX55**
0.34	62.00 in.-lb.	21 cfm	350	½"	Face	⅛" NPT	REV	**22UX82**
0.64	172.00 in.-lb.	20 cfm	110	⅞"	Base	¼" NPT	CCW	**22UX56**
0.9	256.00 in.-lb.	27 cfm	150	⅝"	Base	¼" NPT	CCW	**22UX57**
1.25	400.00 in.-lb.	60 cfm	200	1"	Face and Foot	¼" NPT	REV	**22UX81**
1.26	274.00 in.-lb.	57.5 cfm	300	1"	Face and Foot	¼" NPT	REV	**22UX54**
Cast-Iron Air Motors								
0.45	2.75 in.-lb.	20.5 cfm	10,000	⅜"	Hub	⅛" NPT	CCW	**22UX71**
	5.25 in.-lb.	27 cfm	6000	⅜"	Hub	⅛" NPT	CW	**22UX41**
	5.25 in.-lb.	27 cfm	6000	⅜"	Hub	⅛" NPT	REV	**22UX42**
0.93	19.50 in.-lb.	30 cfm	3000	½"	Hub	¼" NPT	CCW	**22UX43**
	19.50 in.-lb.	30 cfm	3000	⅝"	Flange	¼" NPT	REV	**22UX44**
	19.50 in.-lb.	30 cfm	3000	½"	Foot	¼" NPT	REV	**22UX72**
1.7	36.00 in.-lb.	78 cfm	3000	⅝"	Face	⅜" NPT	REV	**22UX45**
	36.00 in.-lb.	78 cfm	3000	⅝"	Flange	¼" NPT	REV	**22UX46**
	36.00 in.-lb.	78 cfm	3000	½"	Foot	¼" NPT	REV	**22UX73**
	36.00 in.-lb.	78 cfm	3000	½"	Foot	¼" NPT	REV	**22UX74**
	36.00 in.-lb.	78 cfm	3000	½"	Face	¼" NPT	REV	**22UX75**
4	84.00 in.-lb.	128 cfm	3000	⅝"	Foot	½" NPT	REV	**22UX47**
	84.00 in.-lb.	128 cfm	3000	⅝"	Flange	½" NPT	REV	**22UX48**
	84.00 in.-lb.	128 cfm	3000	⅝"	Flange	½" NPT	REV	**22UX49**
	84.00 in.-lb.	128 cfm	3000	⅝"	Foot	½" NPT	REV	**22UX76**
	84.00 in.-lb.	128 cfm	3000	⅝"	Face	½" NPT	REV	**22UX77**
5.25	132.00 in.-lb.	175 cfm	2500	¾"	Foot	½" NPT	REV	**22UX50**
	132.00 in.-lb.	175 cfm	2500	⅞"	Flange	½" NPT	REV	**22UX51**
9.5	290.00 in.-lb.	275 cfm	2000	1⅛"	Face and Foot	1¼" NPT	REV	**22UX52**
	290.00 in.-lb.	275 cfm	2000	⅞"	Foot and Flange	1¼" NPT	REV	**22UX53**
Cast-Iron Oilless Air Motors								
0.42	13.50 in.-lb.	30 cfm	2000	½"	Hub and Foot	¼" NPT	CCW	**22UX58**
	13.50 in.-lb.	30 cfm	2000	½"	Hub and Foot	¼" NPT	CW	**22UX59**
0.82	25.50 in.-lb.	41 cfm	2000	½"	Hub and Foot	¼" NPT	CCW	**22UX60**
2.5	78.75 in.-lb.	68 cfm	2000	⅝"	Hub and Foot	½" NPT	CW	**22UX63**
	78.75 in.-lb.	68 cfm	2000	⅝"	Hub and Foot	½" NPT	CCW	**22UX62**
Stainless Steel Air Motors								
0.45	2.75 in.-lb.	20.5 cfm	10,000	⅜"	Face	⅛" NPT	REV	**22UX65**
1.7	36.00 in.-lb.	78 cfm	3000	⅜"	Face	¼" NPT	REV	**22UX67**

** Clockwise (CW), Counterclockwise (CCW), Reversible (REV).*

Ingersoll Rand

Rotary Multivane Air Gearmotors

- Max. air pressure: 90 psi
- Max. temp.: 150°F

Provide higher torque at low speeds and continuous-duty forward or reverse operation. Keyed steel shafts with case-hardened gearing. Aluminum and steel construction.



No. 1AAG1

HP	Running Torque @ Max. Pressure	Stall Torque	Max. Air Flow	No Load RPM	RPM @ Max. Torque	Shaft Dia.	Shaft Length	Keyway Length	Port Size	Gear Ratio	Overall Length	Outside Dia.	Mfr. Model	Item No.
Flange														
0.31	99.00 in.-lb.	198 in.-lb.	18 cfm	280	140	⅜"	1.00"	0.125"	¼" NPT	50:1	8.87"	1.76"	M004RVR050AR3	**1AAF9**
	330.00 in.-lb.	396 in.-lb.	18 cfm	85	42	⅜"	1.00"	0.125"	¼" NPT	167:1	8.87"	1.76"	M004RVR167AR3	**1AAG1**
0.34	71.00 in.-lb.	142 in.-lb.	18 cfm	450	225	⅜"	1.00"	0.125"	¼" NPT	33:1	8.11"	1.76"	M004RVR033AR3	**1AAF8**
Face														
0.61	612.00 in.-lb.	1224 in.-lb.	33 cfm	94	47	¾"	2.19"	0.187"	¼" NPT	188:1	13.13"	2.69"	M007RVR188BR6	**1AAG2**
	1212.00 in.-lb.	2424 in.-lb.	33 cfm	47	23	¾"	2.19"	0.187"	¼" NPT	374:1	13.13"	2.69"	M007RVR374BR6	**1AAG3**
3	1800.00 in.-lb.	3600 in.-lb.	95 cfm	170	83	1"	2.25"	0.250"	½" NPT	51:1	14.50"	4.00"	4840U	**1AAG5**
3.2	378.00 in.-lb.	756 in.-lb.	95 cfm	975	485	1"	2.25"	0.250"	½" NPT	9:1	12.13"	4.00"	4840M	**1AAG4**

GAST
A UNIT OF IDEX CORPORATION

Tank-Mounted, Enclosed Oilless Air Compressors

- Field-adjustable pressure switch
- Single phase

Innovative reservoir can provide a blast of high pressure. Tank dampens pulsation from the reciprocating compressor.

All models except No. 5Z671 incorporate a Gast piston compressor pump listed below. Pressure switch setting: 70 psi-On/90 psi-Off. No. 5Z671 has 30 psi-On/50 psi-Off. Gray finish.

⅛- and 1/6-HP Compressors—Include pressure switch, manual drain, pressure safety valve, pressure gauge, and globe valve.

⅓- to 1½-HP Compressors—Include coded tank, pressure switch, manual drain, pressure safety valve, pressure gauge, and globe valve. No. 5Z676 has magnetic starter.



No. 5Z672



No. 5Z675

HP	Free Air CFM @ Max. Pressure	Max. Pressure	Voltage	Amps AC	Tank Size	(F)NPT Outlet	Overall L	Overall W	Overall H	Mfr. Model	Item No.
⅛	0.2	50 psi	115	4.2	2 gal.	¼"	18"	8"	15"	DOA-P710T-AA	**5Z671**
	0.4	100 psi	115	4.3	2 gal.	¼"	18"	8"	17"	1HAB-84T-M100X	**5Z672**
⅙	0.9	50 psi	115	3.9	2 gal.	¼"	18"	8"	17"	1LAA-251T-M100X	**2CJH1**
⅓	1.1	100 psi	115	6.6	12 gal.	¼"	26"	14"	21"	3HBB-69T-M300AX	**11X372**
¾	4.7	100 psi	115/230	15.8/7.9	2 gal.	¼"	18"	13"	22"	5HCD-101T-M550NGX	**5Z674**
	4.7	100 psi	115/230	15.8/7.9	20 gal.	¼"	33"	16"	27"	5HCD-100TA-M550NGX	**5Z675** *
1½	5	100 psi	230	10.8	30 gal.	⅜"	38"	17"	29"	7HDD-70TA-M750X	**5Z676**

** No. 5Z675 is factory wired for 230V, may be converted to 115V.*



No. 4F740



No. 4Z470

Rotary Vane Compressors and Vacuum Pumps

- Oilless design
- Permanently lubricated and sealed bearings
- Self-adjusting, self-lubricating vanes

For general continuous-duty vacuum and low-pressure applications. Nos. 3KYY4, 4F740, 4F741, 4F742, 4TF21, and 4TF22 have integral mufflers and filters, as well as international multivoltage, dual-frequency motors. All units are single phase except for Nos. 2CJG8 and 4TF21; single-phase units have thermal overload protection. Nos. 4Z470 and 4Z469 include coupling and coupling guard. Mount directly to 56C frame motors.

Note: When used for pond aeration, include the appropriate check valve in discharge line to prevent water from entering pump in case of power failure.

HP	Phase	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM (psi) 0	Free Air CFM (psi) 10	Free Air CFM @ In. Hg 0	Free Air CFM @ In. Hg 10	Free Air CFM @ In. Hg 20	Mfr. Model	Item No.	
Compressor/Vacuum Pumps													
1/10	1	100-115	2.64	1/8"	1/8"	1.50	0.9	1.50	0.85	0.15	1531-107B-G557X	**33K867**	
1/6	1	115	4.2	1/4" NPT	1/4" NPT	1.10	—	1.10	0.60	—	0211-143-G8CX	**4Z334**	
	1	100-115	2.2	1/4"	1/4"	2.60	2	2.60	1.70	0.7	3032-101A-G609X	**33K856**	
1/4	1	115/208-230	4.5	1/4" NPT	1/4" NPT	—	—	4.20	2.80	0.10	0523-V4-G588NDX	**3KYY4**	
	1	115/230	4.6/2.3	1/4" NPT	1/4" NPT	4.80	3.90	5.00	3.00	0.50	0523-V191Q-G588NDX	**4F740**	*
3/4	1	115/230	12.2/6.1	3/8" NPT	3/8" NPT	8.00	6.80	8.00	5.00	0.50	0823-V131Q-G608NEX	**4F741**	*
	1	115/230	12.2/6.1	3/8" NPT	3/8" NPT	10.00	9.00	10.00	6.30	0.80	1023-V131Q-G608NEX	**4F742**	*
	3	230/460	2.6/1.3	3/8" NPT	3/8" NPT	10.00	—	10.00	5.00	0.20	1023-251Q-G279	**2CJG8**	
1	3	230/460	3.0/1.5	3/8" NPT	3/8" NPT	13.50	10.00	13.20	8.00	0.00	1423-103Q-G625	**4TF21**	†
	1	115/230	13.0/6.5	3/8" NPT	3/8" NPT	13.50	10.00	13.20	8.00	0.00	1423-103Q-G626X	**4TF22**	*
Vacuum Pump/Air Compressor with Motor													
1	1	115/230	8.4/4.6-4.2	3/4" NPT	3/4" NPT	17.00	12.50	17.00	9.50	1.00	7Z778	**7Z778**	
	1	115/230	10.0/5.0	3/4" NPT	3/4" NPT	17.00	12.50	17.00	9.50	1.00	7Z779	**7Z779**	
	3	230/460	3.6-3.8/1.9	3/4" NPT	3/4" NPT	17.00	12.50	17.00	9.50	1.00	7Z781	**7Z781**	
1 1/2	1	115/230	15.2/8.2-7.6	3/4" NPT	3/4" NPT	21.00	17.90	21.00	13.00	1.50	7Z782	**7Z782**	
	3	230/460	4.6/2.3	3/4" NPT	3/4" NPT	21.00	17.90	21.00	13.00	1.50	7Z783	**7Z783**	
Vacuum Pump/Air Compressor without Motor													
3/4	—	—	—	1/2" NPT	1/2" NPT	13.50	12.00	14.50	9.00	4.00	1550-600	**53VC79**	
1	—	—	—	3/4" NPT	3/4" NPT	17.00	12.50	17.00	10.00	1.00	2067-V108	**4Z469**	
1 1/2	—	—	—	3/4" NPT	3/4" NPT	21.00	17.90	21.00	13.00	1.10	2567-V108	**4Z470**	

If 50 Hz is used, deduct 17% from cfm Ratings. * Can operate at 100-115/200-208-230V 50 Hz. † Can operate at 220/240-380 50 Hz.



No. 5Z346



No. 2Z866



No. 4Z791

A UNIT OF IDEX CORPORATION

THOMAS by Gardner Denver

Diaphragm Compressors/ Vacuum Pumps

- Pressure or vacuum without modification
- Quiet operation

Permanently lubricated, virtually maintenance-free units offer the versatility of reversible 1/8" and 1/4" inlet and outlet ports.

Thomas Models—Nos. 4Z792, 4Z791, and 5Z348 come equipped with a 6-ft. grounded power cord.

HP	Voltage	Full Load Amps	Max. Vacuum	Max. PSI Cont./Int.	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 30	Free Air CFM @ Vacuum 0	Free Air CFM @ Vacuum 20	Overall L	Overall W	Overall H	Brand	Mfr. Model	Item No.
Compressor/Vacuum Pumps																
1/125	12VDC	0.3	14.0" Hg	15	1/4" Hose Barb	1/4" Hose Barb	0.15	0	0.17	0	3 1/16"	1 5/16"	2 1/8"	Gast	10D1125-101-1052	**36XD65**
1/125	24VDC	0.3	14.0" Hg	15/15	1/4" Hose Barb	1/4" Hose Barb	0.15	0	0.17	0	3"	1 1/4"	2 1/8"	Gast	10D1125-101-1053	**33K758**
1/50	24VDC	0.6	22.0" Hg	20	1/4" Hose Barb	1/4" Hose Barb	0.25	0	0.25	0	4"	1 7/8"	1 13/16"	Gast	15D1150-101-1014	**36XD66**
1/20	12VDC	4.0	22.5" Hg	—	1/8" NPT	1/8" NPT	1.20	0	1.20	0.10	6 1/2"	3 1/2"	5 11/16"	Gast	22D1180-201-1088	**36XD67**
1/20	115	1.6	23.2" Hg	5/5	1/8" NPT	1/8" NPT	1.65	—	1.65	0.17	8"	4 1/4"	4 3/4"	Thomas	2107CA20	**5Z347**
1/20	115	1.7	22.1" Hg	20/30	1/8" NPT	1/8" NPT	0.69	0.14	0.69	0.05	7"	4 1/4"	4 3/4"	Thomas	107CAB18	**5Z346**
1/15	115	2	22.4" Hg	—	1/4" NPT	—	—	—	1.30	0.13	8 7/32"	4 3/4"	6 15/16"	Thomas	900-58	**4Z792**
1/10	12VDC	9.5	22.9" Hg	35/35	1/8" NPT	1/8" NPT	1.40	0.49	1.40	0.00	7 3/8"	4 1/4"	4 3/4"	Thomas	107CDC20	**4XL32**
1/10	12VDC	10.8	22.2" Hg	30/30	1/4" NPT	1/4" NPT	2.05	0.35	2.05	0.00	7 7/8"	4 1/4"	5 5/64"	Thomas	907CDC18	**4XL33**
1/8	24VDC	4.0	22.5" Hg	25	1/8" NPT	1/8" NPT	1.30	0	1.30	0.10	7 3/4"	3 1/2"	5 11/16"	Gast	22D1180-202-1005	**36XD68**
1/8	115	2.8	24.0" Hg	50/50	1/4" NPT	1/4" NPT	1.60	0.60	1.60	0.25	9"	4 11/16"	4 3/4"	Gast	MAA-P251-MB	**5KA83**
1/8	115	3	23.8" Hg	30/40	1/4" NPT	1/4" NPT	1.24	0.44	1.24	0.16	7 1/8"	4 3/4"	6 7/8"	Thomas	927CA18	**5Z348**
1/8	115	4.2	25.5" Hg	60/60	1/4" NPT	1/4" NPT	1.10	0.55	1.10	0.20	7 5/8"	5 1/8"	7 11/16"	Gast	DOA-P707-AA	**2Z866**
1/8	115	4.5	25.5" Hg	60/60	3/8" Hose Barb	3/8" Hose Barb	1.90	—	—	0.30	7 5/8"	5 1/8"	8"	Gast	DOA-P704-AA	**3KYY6**
1/6	100-115	2.2	—	—	1/4"	1/4"	2.60	—	—	—	—	—	—	Gast	3032-101A-G609X	**33K856**
1/3	110/115	4.8/3.3	25.5" Hg	60/60	1/4" NPT	1/4" NPT	1.90	0.90	1.90	0.30	7 5/8"	5 1/8"	7 5/8"	Gast	DOA-P707-FB	**4Z024**
1/3	115	4.5	25.5" Hg	60/60	1/4" NPT	1/4" NPT	1.90	0.95	1.90	0.30	7 5/8"	5 1/8"	8"	Gast	DOA-V751-FB	**5KA84**
Compressor Pumps																
1/15	115	2.4	—	20/35	—	1/4" NPT	1.30	—	—	—	8"	4 3/4"	6 3/4"	Thomas	900-59	**4Z791**
Dual Diaphragm Linear Compressor Pumps																
—	115	0.37	8.0" Hg	4.0/4.0	1/8" NPT	1/8" NPT	2.05	—	2.00	0.00	4 5/8"	5"	3 1/2"	Thomas	150057	**5GUM9**

Piston Air Compressors/Pumps

GAST
A UNIT OF IDEX CORPORATION

- Max. pressure: 100 psi

Shaded pole motors have automatic thermal protection. Rated for continuous duty. Corrosion-resistant sandwich valve stops foreign particles from lodging on valve seats. Aluminum cylinders and cylinder heads. Thermally protected motors with high torque start windings (except Nos. 5KA88, 5KA89, 2CJH2, and 2CJH3). Gray finish.


No. 2Z870

HP	Phase	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 50	L	Overall W	Overall H	Mfr. Model	Item No.
⅛	1	115VAC	4.3	¼" NPT	¼" NPT	1.27	1.15	11⅞"	5⅝"	8½"	1HAB-44-M100X	**2Z867**
¼	1	115VAC	6.8	¼" NPT	¼" NPT	1.65	1.52	12⅛"	5⅝"	8½"	2HAH-24-M200X	**5Z668**
⅓	1	115VAC	6.6	¼" NPT	¼" NPT	2.30	2.5	17¼"	14¼"	11¼"	3HBB-32-M300AX	**11X371**
	—	12VDC	46	¼" NPT	¼" NPT	1.85	—	14"	5⅝"	8⅜"	2HAH-251-M322	**5KA88**
	—	12VDC	46	¼" NPT	¼" NPT	2.40	—	15¼"	10⅞"	5⅞"	3HBB-251-M322	**5KA89**
½	1	115/230VAC	12/6	¼" NPT	¼" NPT	3.48	3.25	13¼"	12"	8⅞"	4HCC-40-M450X	**2Z869**
¾	1	115/208-230VAC	14/7	¼" NPT	¼" NPT	4.65	4.40	14½"	12 1⁄16"	8⅞"	5HCD-43-M550NGX	**2Z870**
1	1	115/230VAC	14.8/7.4	¼" NPT	¼" NPT	5.40	5.00	17⅝"	12¼"	8 15⁄16"	6HCA-12-M616NEX	**4Z706**
1½	1	115/208-230VAC	21.6/12/10.8	⅜" NPT	⅜" NPT	9.00	8.40	20¾"	12 1⁄16"	8½"	7HDD-57-M750X	**4Z460**
2	1	115/230VAC	24/12	⅜" NPT	⅜" NPT	11.00	10.50	21½"	12¼"	8½"	8HDM-19-M850X	**4Z707**
	3	230/460VAC	6.6/3.3	⅜" NPT	⅜" NPT	9.00	—	21⅜"	12⅛"	8¾"	7HDD-251-M853	**2CJH2**
	3	230/460VAC	6.6/3.3	⅜" NPT	⅜" NPT	11.00	—	22⅜"	12⅜"	8¾"	8HDM-251-M853	**2CJH3**

Oilless Piston Dry Sprinkler Compressors

GAST
A UNIT OF IDEX CORPORATION

- Max. pressure (cont./int.): 50 psi
- Single-phase, 60 Hz

Specifically designed for the fire protection industry. Units include inlet filters, pressure safety valve, pressure switch, check valve, tubing, and fittings.


No. 3HDG6


No. 3HDH2

HP	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM @ PSI 0	Free Air CFM @ PSI 20	Motor Type	L	Overall W	Overall H	Mfr. Model	Item No.
Tankless												
½	115/230VAC	12/6	¼" NPT	¼" NPT	3.10	3.5	Capacitor Start	16 1⁄16"	12¼"	8½"	4LCB-246S-M450GX	**3HDG6**
¾	115/230VAC	16/8	¼" NPT	¼" NPT	4.20	4.8	Capacitor Start	17 3⁄16"	12¼"	8½"	5LCA-246S-M550GX	**3HDG7**
1	115/230VAC	14.8/7.4	⅜" NPT	⅜" NPT	5.90	5.6	Capacitor Start	16¾"	12⅓"	8⅓"	6LCF-246S-M616NEX	**3HDG8**
1½	115/208-230VAC	21.6/12-10.8	⅜" NPT	⅜" NPT	7.9	8.7	Capacitor Start	25⅓"	13½"	8⅔"	7LDE-246S-M750X	**3HDG9**
Tank Mounted												
¼	115	5.8	—	—	1.50	—	Open Dripproof	26"	13"	21"	2LAF-246T-M200EX	**3HDH2**
2	110/220, 115/230	24/12	¼" NPT	⅜" NPT	12.4	10.8	Capacitor Start	38"	17"	28⅝"	8LDF-46T-M850X	**26JY09**

TA Series Air Compressors/Vacuum Pumps

THOMAS
by Gardner Denver

Powerful pumps feature a 1725 rpm motor with permanently lubricated, sealed ball bearings. Automatic reset thermal protection. ¼" (F)NPT outlet.

TA SERIES, HIGH-FLOW, 2-STAGE

Capacitor-start, high-torque motor features heavy-duty piston, cast-iron cylinder sleeves, and low-lift reed valves. Allows for direct coupling of pressure switch, eliminating need for air tank.


No. 3HCA6

HP	Voltage	Full Load Amps	Max. PSI Cont./Int.	Free Air CFM @ PSI 0	Free Air CFM @ PSI 20	Free Air CFM @ PSI 50	Free Air CFM @ PSI 100	L	Overall W	Overall H	Mfr. Model	Item No.
TA Series, High-Flow, 2-Stage												
⅓	115/230VAC	8/4	175	1.40	1.35	1.27	1.15	14½"	11 3⁄64"	7"	270072	**3HCA5**
½	115/230VAC	7.3/3.6	175	1.80	1.78	1.75	1.65	14½"	11 3⁄64"	7"	270073	**3HCA6**
¾	115/230VAC	10.6/5.3	175	2.40	2.37	2.33	2.25	15½"	12"	7"	270080	**3HCA7**

Oilless Articulating High-Flow Compressors/Vacuum Pumps

GAST
A UNIT OF IDEX CORPORATION

THOMAS
by Gardner Denver

Permanently lubricated components and stainless steel valves provide long life and max. performance. Pump cylinders are corrosion-resistant for harsh environments.

E SERIES AIR COMPRESSOR

- Fully enclosed to protect against harsh environments
- Runs quietly—72dBA at 100 psi

Has full pressure restart capabilities. Features permanent magnet DC motor and 2 cast-iron cylinders.


No. 2KFU8


No. 5KA94

HP	Voltage	Full Load Amps	Max. PSI Cont./Int.	Max. Vacuum	Free Air CFM @ psi 0	Free Air CFM @ psi 20	Free Air CFM @ psi 50	Free Air CFM @ In. Hg 0	Free Air CFM @ In. Hg 10	Free Air CFM @ In. Hg 20	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
⅛	115VAC VAC	4.3	50/50	26" Hg	1.50	1.2	0.9	1.50	0.70	0.28	11⅝"	5⅝"	8½"	Gast	1LAA-251-M100X	**5KA91**
¼	115VAC VAC	6.8	50/50	27.5" Hg	2.00	1.75	1.5	2.00	1.00	0.41	12½"	5⅝"	8⅝"	Gast	2LAF-251-M200X	**5KA92**
	12 VDC	26	-/100	—	1.70	1.4	1.09	—	—	—	11 9⁄16"	5 13⁄16"	5 13⁄16"	Thomas	270024	**5GUM8**
⅓	115VAC VAC	6.6	50/50	—	2.30	2.30	1.8	—	—	—	17¼"	14¼"	11¼"	Gast	3LBA-251-M300AX	**11X373**
	12 VDC	28	-/100	—	2.20	1.75	1.34	—	—	—	11⅛"	5⅛"	8⅜"	Thomas	270025	**2KFU8**
	24 VDC	18.5	-/100	—	2.20	1.75	1.34	—	—	—	11⅛"	5 13⁄16"	8⅜"	Thomas	270047	**5GUM7**
½	115/230VAC VAC	12/6	50/50	27.5" Hg	4.50	3.5	3	4.50	1.50	0.6	13-1/6"	12"	8⅞"	Gast	4LCB-251-M450X	**5KA94**
¾	115/230VAC VAC	16/8	50/50	27.5" Hg	5.40	4.8	4	5.40	1.50	0.6	14½"	12¼"	8⅞"	Gast	5LCA-251-M550NGX	**5KA95**
E Series Air Compressor																
½	12 VDC	52	-/100	—	3.35	2.8	2.25	—	—	—	15 5⁄16"	10⅛"	7½"	Thomas	270063	**1CZC7**


No. 5Z349

Oilless Rocking Piston Air Compressors/Vacuum Pumps

THOMAS by Gardner Denver | GAST A UNIT OF IDEX CORPORATION | WELCH by Gardner Denver

- Continuous-duty rated
- Quiet-running—63dBA at 60 psi

For Use With	Item No.
Service Kits	
5Z351	**2KFW5**
Mfr. No. 1007CK72	**2KFW2**
Mfr. No. 2688VE44, 2688CE44	**2KFW3**
Mfr. No. 405ADC38/12	**2KFV7**
Mfr. No. 617CA22	**2KFW1**
Mfr. No. 617CA32	**2KFV4**
Mfr. No. 688CE44	**2KFV9**

Units feature rugged flexible piston cup and shaded-pole motor with automatic thermal protection and high-torque start windings. Corrosion-resistant sandwich valve stops foreign particles from lodging on valve seats. Aluminum cylinders, cylinder heads, and pistons.

Welch®—Provide adjustable vacuum for light industrial and QC laboratory applications. No. 38XV25 can handle high-moisture vapor loads and has a 10-gal. vacuum tank system for pick and place, small scale vacuum forming, and vacuum chucking.

HP	No. of Cylinders	Voltage	Full Load Amps	Max. PSI Cont./Int.	Max. Vacuum	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 100	Free Air CFM @ In. Hg 10	Free Air CFM @ In. Hg 20	Brand	Mfr. Model	Item No.
Tankless														
1/10	1	12VDC	10.5	100/100	—	1/8" NPT	1/4" NPT	0.79	0.24	—	—	Thomas	405ADC38/12	**5Z349**
7/64	1	11-15VDC	9	100	27.0" Hg	1/4"	1/4"	0.7	0.1	0.30	0.15	Gast	LOA-101-JR	**33K842**
1/8	1	115/230VAC	1.4/.8	125	27" Hg	1/4" NPT	1/4" NPT	1.10	0.3	1.00	—	Gast	86R123-101-N170X	**52DD89**
	1	115VAC	3.1	100/100	25.6" Hg	1/4" NPT	1/4" NPT	0.78	0.07	0.47	0.16	Thomas	617CA22	**5Z646**
	1	115VAC	4.6	50/60	26.8" Hg	1/4" NPT	1/4" NPT	1.22	—	0.65	0.23	Thomas	617CA32	**2KFV1**
1/4	1	100/120, 200/240	2.6/1.4	100/100	29.5" Hg	1/4" NPT	1/4" NPT	2.00	0.7	1.10	0.4	Gast	87R135-101-N270X	**36XD63**
	1	115/230VAC	2.8/1.4	100	27" Hg	1/4" NPT	1/4" NPT	2.00	0.8	1.00	—	Gast	86R142-P001B-N270X	**52DD90**
	1	115VAC	1.7	100	27.6" Hg	1/4" Hose	1/4" Hose	1.60	—	1.55	—	Welch	2546B-01	**38XV19**
1/3	1	115VAC	3.6	100/100	27.6" Hg	1/4" NPT	1/4" NPT	1.60	0.76	0.90	0.33	Thomas	688CE44	**5Z647**
	2	115VAC	3.2	—	29" Hg	1/4" NPT	1/4" NPT	—	—	0.98	0.48	Thomas	2688VE44	**5Z648**
	2	115VAC	4.7	25/25	27.6" Hg	1/4" NPT	1/4" NPT	3.15	—	1.60	0.64	Thomas	2688CE44	**5Z350**
	2	115VAC	2.2	—	29.8" Hg	3/16" Hose	3/16" Hose	3.5	—	3.40	—	Welch	2581B-50	**38XV17**
	2	115VAC	2.2	—	29.8" Hg	3/16" Hose	3/16" Hose	2.30	—	2.25	—	Welch	2561B-50	**38XV21**
1/2	2	115/120, 230/240	6.0/3.0	30/30	27.5" Hg	1/4" NPT	1/4" NPT	4.6	0.88	2.80	1.2	Gast	87R645-101-N470X	**36XD62**
	2	115/120, 230/240	5.7/2.8	50/125	25" Hg	1/4" NPT	1/4" NPT	4.20	1.8	2.80	1.0	Gast	87R642-101R-N470X	**36XD64**
	2	115/230VAC	4.4 @ 120/60VAC, 2.3 @ 230/60VAC	—	29" Hg	1/4" NPT	1/4" NPT	2.70	—	1.50	0.6	Gast	87R555-V101-N470X	**52KA64**
3/4	1	115VAC	10.6	125/125	25.9" Hg	1/4" NPT	1/4" NPT	3.78	1.99	1.98	0.7	Thomas	1207PK80	**2KFU9**
1	2	115VAC	8.5	50/120	25" Hg	1/4" NPT	1/4" NPT	6.60	3.05	2.66	0.88	Thomas	2807CE72	**5Z353**
Tank Mounted														
1/2	2	115	—	—	26" Hg	3/8" Hose	—	7.1	—	4.60	2.3	Welch	8150B-30	**38XV25**

**** 1/4" I.D. tube barb fitting.***



No. 36XD51



No. 36XD52

Oilless Rocking Piston Air Compressors

JUN-AIR®

- Single phase
- Continuous-duty rated
- Max. pressure: 120 psi
- Auto thermal protection

Provide clean and reliable compressed air for dental and medical offices and in laboratory applications. Feature multiple filtration elements and a powder-coated tank that resists corrosion. Nos. 36XD54, 36XD57 and 36XD60 include desiccant dryer.

HP	Enclosure	Voltage	Amps	(F)NPT Outlet	Tank Size	Free Air CFM @ 90 psi	Mfr. Model	Item No.
Horizontal								
0.50	Yes	115VAC	5.3	1/4"	1.1 gal.	1.2	1770008	**36XD51**
0.60	Yes	115VAC	6.6	1/4"	6.6 gal.	1.3	1609115	**5GJY6**
	No	120VAC	8.0	1/4"	1.1 gal.	1.7	OF302-4B	**36XD50**
	No	120VAC	16.0	1/4"	10.6 gal.	3.4	1608900	**36XD55**
1.20	Yes	120VAC	16.0	1/4"	10.6 gal.	3.4	1609240	**36XD56**
	Yes	120VAC	16.0	1/4"	10.6 gal.	3.4	1609768	**36XD57**
	No	230VAC	9.0	1/4"	2.8 gal.	5.2	1613310	**5GJZ0**
2.00	Yes	230VAC	10.0	1/4"	10.6 gal.	6.0	1616003	**36XD59**
	Yes	230VAC	10.0	1/4"	10.6 gal.	6.0	1616061	**36XD60**
Pancake								
0.60	No	120VAC	8.0	1/4"	6.6 gal.	1.7	1608770	**36XD52**
	Yes	120VAC	8.0	1/4"	6.6 gal.	1.7	1609738	**36XD54**



No. 3HDJ8

GAST A UNIT OF IDEX CORPORATION | THOMAS by Gardner Denver

Compressor/Vacuum Maintenance Kits

For Use With	Includes	Brand	Item No.
2CJG9	Filter/Mufflers, Bearings, Deflector, Vanes, and Gaskets	Gast	**3HDK1**
2Z869, 5Z675, 5Z674, 2Z870, 4Z706, 5KA94, 5KA95	Gaskets, Seals, Rings, Head Valves, and Filter	Gast	**3HDK5**
4Z460, 5Z676, 4Z707, 2CJH2, 2CJH3	Gaskets, Seals, Rings, Head Valves, and Filter	Gast	**3HDK6**
5KA74, 5KA87, 5KA90	Filter, Cup Seal, Gaskets, O-ring, and Head Valve	Gast	**3HDK7**
5KA78	Leaf Valves, O-rings, Cups, Cylinders and Screws	Gast	**3HDL3**
5KA79	Leaf Valves, O-rings, Cups, Cylinders and Screws	Gast	**3HDL4**
5KA80	Vanes	Gast	**3HDJ3**
5KA81	Vanes and Foam	Gast	**3HDJ4**
5KA85	Gasket, Leaf Valves, Head, Valve Plate, Screws	Gast	**3HDL9**
5Z348, 4XL33	Diaphragm, Gasket O-Ring, Valve Flappers, Valve Keeper, Filter, and Screws	Thomas	**2KFV8**
Mfr. No. 0211-143-G8CX	Gaskets, Vanes, and Belt Spacer	Gast	**3HDJ5**
Mfr. No. 0523-V191Q-SG588DX	4 Vanes (AH850A), 2 O-rings (AK473), 1 Gasket (AK521), 2 Felt Spacers (AK524)	Gast	**3HDJ6**
Mfr. No. 1423-103Q-G625, 1423-103Q-G626X	Vane, O-ring, Gasket, Gasket Bolt and Filter	Gast	**3HDJ8**
Mfr. No. 1531-320-G557X	Gaskets, Vanes, and Filter	Gast	**3HDJ2**
Mfr. No. 1HAB-44-M100X, 1HAB-84T-M100X, 2HAH-24-M200X, 2HAH-251-M322, 1LAA-251-M100X, 2LAF-251-M200X	Gaskets, Seals, Rings, Head Valves, and Filter	Gast	**3HDK2**
Mfr. No. 2067-V108, 2567-V108	Filter/Mufflers, Bearings, Deflector, Vanes, and Gaskets	Gast	**3HDJ9**
Mfr. No. 2107CA20	Diaphragm, Valve Plate Gasket, Valve Flappers, Valve Keeper, and Screws	Thomas	**2KFW4**
Mfr. No. 2FKW6, 107CAB18, 107CDC20	Diaphragm, Valve Plate Gasket, Valve Flappers, Valve Keeper, and Screws	Thomas	**2KFV3**
Mfr. No. 3HBB-32-M300X, 3HBB-251-M322, 3HBB-69T-M300X, 3LBA-251-M300X	Gaskets, Seals, Rings, Head Valves, and Filter	Gast	**3HDK3**
Mfr. No. DOA-P707-FB, DOA-P551-KH	Gasket, Leaf Valves, Filter Elements, Screws, and O-ring	Gast	**3HDL7**
Mfr. No. DOA-P710T-AA, DOA-V751-FB, DOA-P707-AA	Gasket, Leaf Valves, Filter Elements, Screws, and O-ring	Gast	**3HDL8**
Mfr. No. MOA-P25-JH	Gasket, Leaf Valves, Filter Elements, Screws, and O-ring	Gast	**3HDL6**
Mfr. No. ROA-P251-AA	Filter, Cup Seal, Gaskets, O-ring, and Head Valve	Gast	**3HDK8**

Lubricated Rotary Vane Vacuum Pumps

Elmo Rietschle
A Gardner Denver Product

- NEMA Premium motors
- Oil sight glass

Single-stage, oil-flooded units are direct driven. Oil-free discharge through large droplet separation followed by oil mist filters. Gas ballast. Also include fine mesh filter, vacuum nonreturn valve, and initial fill of oil.



No. 5KY77



No. 5KY78



No. 5KY81

Vacuum Pump (HP)	For Use With	H (in.)	Mfr. Model	Item No.
Replacement Filter Elements				
1	Mfr. No. VCB-20	3½	731399	**36Z457**
1½	Mfr. No. VCE-25	1⅝	3136586000	**36Z458**
3	Mfr. No. VC-50 and VC-75	4⅞	474	**36Z459**
5	Mfr. No. VC-100	4⅞	475	**36Z460**

HP	Phase	Voltage	Amps AC	Displacement	End Vacuum	Max. dBA	NPT Inlet	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Pumps												
1½	1	115/230	15/7.5	13.0 cfm	29.90" Hg	64	½"	16⅛"	9⁵⁄₁₆"	7¹⁄₁₆"	VCB-20	**5KY77**
	3	200	5.3	18.0 cfm	29.60" Hg	59	¾"	20⅜"	13⅛"	10"	VCE-25	**36Z454**
	3	230/460	4.0/2.0	18.0 cfm	29.60" Hg	59	¾"	21¼"	13⅛"	10¹⁄₁₆"	VCE-25	**5KY78**
2	3	200	6.7	35.0 cfm	29.90" Hg	67	1¼"	23¹³⁄₁₆"	13¼"	10½"	VC-50	**36Z455**
	3	230/460	6.0/3.0	35.0 cfm	29.90" Hg	67	1¼"	24¹¹⁄₁₆"	13⅛"	10½"	VC-50	**5KY79**
3	3	208-230/460	8.8-8.6/4.3	49.0 cfm	29.90" Hg	68	1¼"	27¹¹⁄₁₆"	13⅛"	10½"	VC-75	**5KY80**
5	3	200	15.2	71.0 cfm	29.90" Hg	69	1½"	31⅝"	16"	11¹³⁄₁₆"	VC-100	**36Z456**
	3	230/460	13.0/6.5	71.0 cfm	29.90" Hg	69	1½"	31⅝"	16"	11¹³⁄₁₆"	VC-100	**5KY81**

Elmo Rietschle
A Gardner Denver Product

GAST
A UNIT OF IDEX CORPORATION

Vacuum Pump Oils

These oils meet rigid requirements for vapor pressure, stability, and viscosity. Tested for high vacuum levels. No. 3HDP8 is specifically formulated for Gast® lubricated rotary vane air motors and rotary vane compressors/vacuum pumps. No. 6D753 is synthetic oil, recommended for corrosive gas applications.



No. 6D736

Description	Container Size	Brand	Mfr. Model	Item No.
Elmo Rietschle VC and VCE Series	1 qt.	Elmo Rietschle	75175001	**1ARZ3**
Elmo Rietschle VCB Series	1 qt.	Elmo Rietschle	75175010	**2GKG6**
Gast Rotary Vane Air Motors and Rotary Vane Compressor/Vacuum Pumps	1 qt.	Gast	KAD220-WW	**3HDP8**
Welch DIRECTORR Direct-Drive	1 qt.	Directorr	8995P-11	**6D754**
Welch DUOSEAL® Belt-Drive	1 qt.	Duoseal	1407K-11	**6D736**
Welch Gold Vacuum Pump Oil	1L	Gold	8995G-11	**6D753**

WELCH
by Gardner Denver

Corrosive Environment Vacuum Pumps

2-stage high-vacuum pumps are used for pumping corrosive gases to pressures below 1 Torr (1mm of Hg). Vane springs, valves, pressure tubes, and oil baffle are made of stainless steel. Oil case is PTFE lined. Nitrogen purge helps reduce corrosion. Gas ballast valve inhibits vapor condensation. Low rpm reduces friction wear. Large oil reservoir dilutes contaminants.



No. 6D735

HP	Displacement	Ultimate Pressure Torr	Intake Male SAE Flare	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
⅓	0.9 cfm	1 x 10^{-4}	ISO - NW 16	115	5.6	17¹³⁄₁₆"	9"	12⅝"	1400N-01	**5JMT0**
½	5.6 cfm	1 x 10^{-4}	ISO - NW 25	115/230	8.6/4.3	19⁵⁄₁₆"	14⅛"	15⁷⁄₁₆"	1402N-01	**6D735**
1	10.6 cfm	1 x 10^{-4}	ISO - NW 25	115/230	11.0/5.5	19⁵⁄₁₆"	12⁵⁄₁₆"	15⅝"	1376N-01	**5JMT1**



No. 3Z654



No. 3Z655

DUOSEAL® Standard High-Vacuum Pumps

- Large oil reservoir
- Continuous duty with thermally protected motors

Low pump rpm (400 to 580 rpm). Pumps operate 20°F cooler than many high-rpm direct-drive pumps. All-metal internal construction and 2-stage rotary valve design.

Contoured molded belt guard and base on Nos. 3Z655 and 3Z656 for quieter operation. Gas ballast inhibits condensation inside pump. Factory wired for 115V operation. Intake filter screens. Belt guard, base, motor with On/Off switch, and 3-wire cord. Blue/gray finish. Oil included.

HP	Displacement	Ultimate Pressure Torr	Tube Inside Dia.	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
⅓	0.9 cfm	1 x 10^{-4}	7⁄16"	115	5.6	17¾"	9"	12⅝"	1400B-01	**3Z654**
½	5.6 cfm	1 x 10^{-4}	13⁄16"	115/230	8.4/4.2	20"	12"	15⅝"	1402B-01	**3Z655**
1	10.6 cfm	1 x 10^{-4}	13⁄16"	115/230	11.0/5.5	19¼"	14⅛"	15⅜"	1376B-01	**3Z656**
1	17.7 cfm	1 x 10^{-4}	1⅝"	115/230	11.0/5.5	26"	13¾"	18¾"	1397B-01	**3Z657**

WELCH
by Gardner Denver

ChemStar® Dry Oilless Deep Vacuum Pump



- Chemical duty

Robust dry vacuum pump provides a deep vacuum in extremely harsh chemical applications. Delivers deep vacuum with max. flow of 150 L/min. (9 cfm) at 2 Torr making it ideal for many evaporative processes. Use with freeze dryers, vacuum ovens, and other light industrial applications. 115V, 60 Hz. Inlet/outlet connection: NW 25.

HP	Voltage	Amps AC	End Vacuum	NPT Inlet	Displacement	Mfr. Model	Item No.
½	115	3	0.05 torr	⅜"	1.2 cfm	2070B-01	**38XV26**

Commercial and Industrial Refrigeration Service Pumps

WELCH by Gardner Denver — DUOSEAL®



No. 5Z025

Designed for removing air and moisture from industrial and commercial chillers. Vacuum pumps are rated for low-micron Hg vacuum, continuous duty. Pumps include a gas ballast valve that inhibits condensation reducing corrosion, On/Off switch, 3-wire cord, and oil.

DuoSeal® Belt-Drive—All-metal internal construction and low pump rpm provide long service life. Large oil reservoirs dilute contaminants. Come complete with base, belt, belt guard, and motor. No. 5Z025 also includes carrying handles.

Application	Tonnage	Item No.	Pump Capabilities
Lithium Bromide Absorption Chiller	100 to 500 500 to 1000 1000 to 1500	5Z025 5Z025, 6D731 6D731, 6D733	Handles harsh salt-laden water vapor. Withstands accidental ingestion of salt solution. Recirculates clean fraction of vacuum pump oil.
Cold Storage	10 to 50 50 to 500 500 to 1000	5Z025 5Z025, 6D731 6D733	Handles long pumpdown time effectively. Handles high water vapor loads. Draws a very deep vacuum.
HCFC, CFC or Ammonia Chiller	10 to 50 50 to 500 500 to 1000	5Z025 5Z025, 6D731 6D733	Seals and gaskets won't break down in the presence of R-11, R-12, R-13, R-22, R-113, R-123, R-114, R-502, R-503 or ammonia. Handles high water vapor loads. Draws a very deep vacuum.

HP	Displacement	Ultimate Pressure Torr	Intake Male SAE Flare	Voltage	Amps AC	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Duoseal® Belt-Drive										
½	5.6 cfm	1 x 10^{-4}	¾	115/230	8.4/4.2	20"	12"	15"	1402B-46	**5Z025**
1	10.6 cfm	1 x 10^{-4}	¾	115/230	11/5.5	20"	14⅛"	15⅜"	1376B-46	**6D731**
	17.7 cfm	1 x 10^{-4}	1½ (F)NPT	115/230	13.4/6.7	26"	13¾"	18¾"	1397B-46	**6D733**



No. 4LCD2



No. 361L34

EXAIR

Air Knives and Air Knife Kits

- Inlet connection: ¼" (F)NPT
- Max. dBA: 69 at 80 psi
- Working pressure: 80 to 250 psi
- Air slot gap: 0.002"

Kits include filter, pressure regulator, filter/regulator mounting hardware, and shim kit.

ALUMINUM AIR KNIVES

- Max. temp.: 180°F
- 1.75"D x 1.44"H x 3" to 54"W

Quiet, hard-hitting curtain of air can be used for blowoff, cleaning, drying, and cooling applications.

STAINLESS STEEL AIR KNIVES AND KITS

- Max. temp.: 800°F
- 1.44"D

SUPER AIR KNIFE SHIM KITS

Aluminum—Include 1 each of 0.001", 0.003", and 0.004" polyester shims.

Stainless Steel—Include three 0.002" stainless steel shims.

Air Slot Width (in.)	Air Consumption (SCFM)*	No. of Inlets	ALUMINUM AIR KNIFE Item No.	ALUMINUM AIR KNIFE KIT Item No.	ALUMINUM AIR KNIFE - STATIC ELIMINATORS Item No.	STAINLESS STEEL AIR KNIFE Item No.	STAINLESS STEEL AIR KNIFE KIT Item No.
3	8.7	4	**4LCA8**	**4LCA9**	—	**4LCC1**	**4LCC2**
6	17.4	4	**4LCC3**	**4LCC4**	**361L34**	**4LCC5**	**4LCC6**
9	26.1	4	**4LCC7**	**4LCC8**	—	**4LCC9**	**4LCD1**
12	34.8	4	**4LCD2**	**4LCD3**	**361L35**	**4LCD4**	**4LCD5**
18	52.2	4	**4LCD6**	**4LCD7**	**361L36**	**4LCD8**	**4LCD9**
24	69.6	4	**4LCE1**	**4LCE2**	**361L37**	**4LCE3**	**4LCE4**
30	87.0	4	**4LCE5**	**4LCE6**	**361L38**	**4LCE7**	**4LCE8**
36	104.4	4	**4LCF8**	**4LCF9**	**361L39**	**4LCG1**	**4LCG2**
42	121.8	4	**4LCE9**	**4LCF1**	**361L40**	**4LCF2**	**4LCF3**
48	139.2	5	**4LCF4**	**4LCF5**	**361L41**	**4LCF6**	**4LCF7**
54	156	5	**6JJL5**	**6JJL6**	**361L42**	**6JJL8**	**6JJL9**

** Calculated at 80 psi.*

For Use With	Item No.	For Use With	Item No.
Aluminum Super Air Knife Shim Kits			
4LCA8	**4LCU4**	4LCE5	**4LCV7**
4LCC3	**4LCU6**	4LCE9	**4LCW2**
4LCC7	**4LCU8**	4LCF4	**4LCW4**
4LCD2	**4LCV1**	4LCF8	**4LCV9**
4LCD6	**4LCV3**	6JJL5	**6JJL7**
4LCE1	**4LCV5**		

For Use With	Item No.	For Use With	Item No.
Stainless Steel Super Air Knife Shim Kits			
4LCC1	**4LCU5**	4LCE7	**4LCV8**
4LCC5	**4LCU7**	4LCF2	**4LCW3**
4LCC9	**4LCU9**	4LCF6	**4LCW5**
4LCD4	**4LCV2**	4LCG1	**4LCW1**
4LCD8	**4LCV4**	6JJL8	**6JJN0**
4LCE3	**4LCV6**		

For Use With	Item No.
Air Knife Mounting System	
6 to 48 In Air Knives	**4LCW6**

Static Eliminating Air Gun, Air Cannon, and Power Supplies

EXAIR

- Pressure range: 5 to 120 psi

Air gun is for manual operations; air cannon is mountable for stationary applications.

Power Supplies—Include metal case and feature lighted power switch.

- 50/60 Hz
- 5mA max.
- Mounting: flange



No. 48RD61

Air Consumption*	Item No.
Static Eliminating Air Gun	
22 scfm	**48RD62**
Static Eliminating Air Cannon	
15.5 scfm	**48RD61**

** Calculated at 80 psi.*

No. of Outlets	Input Voltage	Item No.
Power Supply for Static Eliminating Air Guns/Cannons		
2	120/230VAC	**48RD63**



No. 4LCR3



No. 20CL72

EXAIR

Engineered Air Nozzles

Produce outlet flows 25 times greater than the air they consume.

Description	Item No.
Blowoff Kit	
Includes Magnetic Base, Ball Valve, Stay Set Hose, Air Nozzle	**20CL72**

Air Consumption*	Max. dBA*	Inlet Size	L	ZINC/ ALUMINUM Item No.	STAINLESS STEEL Item No.	PEEK THERMOPLASTIC Item No.
Clusters						
56 scfm	82	⅜" (F)NPT	2⅜₁₆"	**36JP41**	—	—
98 scfm	85	½" (F)NPT	2¾"	**36JP42**	—	—
168 scfm	89	1" (F)NPT	2¹⁵⁄₁₆"	**36JP43**	—	—
Flat, Safety						
10.5 scfm	75	⅛" (F)NPT	1⅝₁₆"	**20CL70**	**20CL71**	—
22 scfm	77	¼" (F)NPT	2⅛₁₆"	**4LCT3**	—	—
	77	¼" (F)NPT	2-3/50"	—	**4LCT4**	—
High Power, Safety						
35 scfm	82	⅜" (F)NPT	1⅝"	**4LCT5**	**4LCT6**	**20CL69**
	82	⅜" (M)NPT	2¼"	**4LCT7**	**4LCT8**	—
60 scfm	87	½" (F)NPT	2"	**4LCT9**	**4LCU1**	—
	87	½" (M)NPT	2¾"	**4LCU2**	**4LCU3**	—
Safety						
2.5 scfm	58	1/6 x ½"	½"	—	**15J053**	—
	58	⅛" (M)NPT	⅞"	—	**15J054**	**38W843**
	58	M4 x 0.5	½"	—	—	**38W842**
4.9 scfm	68	M5 x 0.5	⅝"	—	**15J055**	**38W844**
	68	⅛" (M)NPT	1"	—	**15J056**	**38W845**
8.3 scfm	75	¼ x ¾"	7/9"	—	**15J057**	**15J059**
	75	⅛" (M)NPT	1 1⁄16"	—	**15J058**	**38W846**
10 scfm	71	⅛" (F)NPT	1½"	**4LCR4**	**4LCR5**	**6JJN6**
	71	⅛" (M)NPT	1⅝"	**4LCR6**	**4LCR7**	—
13 scfm	80	⅛" (M)NPT	1½"	—	**4LCR3**	—
14 scfm	74	¼" (F)NPT	1¾"	**4LCR8**	**4LCR9**	**6JJN5**
	74	¼" (M)NPT	2⅜"	**4LCT1**	**4LCT2**	—

** Calculated at 80 psi.*

EXAIR®

Air Amplifiers and Air Amplifier Kits

- Pressure range: 5 to 120 psi
- Temp. rating: 275°F for aluminum; 400°F for stainless steel

Compact, lightweight, and portable amplifiers run on compressed air so electricity is not required. Both the vacuum and discharge ends can be ducted, making them excellent for drawing fresh air from another location or moving smoke and fumes away. High-efficiency amplifiers feature an exact air gap; adjustable amplifiers can be adjusted up to 0.010" at 80 psi. Kits include shim set, filter separator, pressure regulator, and filter/regulator mounting hardware.



No. 4NUW9



No. 4LCX3

CFM @ 80 psi	Amplification Ratio	Air Output Volume CFM @ 80 psi	Air Inlet	Inside Dia.	Max. dBA	ALUMINUM Air Amplifier Item No.	ALUMINUM Air Amplifier Kit Item No.	STAINLESS STEEL Air Amplifier Item No.	STAINLESS STEEL Air Amplifier Kit Item No.
Adjustable									
8.9	10	267	⅛" NPT	0.45"	78	**4LCX7**	**4LCX8**	**4LCX9**	**4LCY1**
12.9	16	618	¼" NPT	0.84"	81	**4LCY2**	**4LCY3**	**4LCY4**	**4NUW8**
21.5	20	1290	⅜" NPT	1.64"	82	**4NUW9**	**4NUX1**	**4NUX2**	**4NUX3**
35.2	22	2323	½" NPT	2.2"	83	**15J062**	**15J063**	**15J066**	**15J067**
50	24	3600	½" NPT	3.02"	84	**15J064**	**15J065**	**15J068**	**15J069**
High-Efficiency									
6.1	12	219	⅛" NPT	0.45"	69	**4LCX1**	**4LCX2**	—	—
8.1	18	436	¼" NPT	0.84"	72	**4LCX3**	**4LCX4**	—	—
15.5	22	1023	⅜" NPT	1.64"	72	**4LCX5**	**4LCX6**	—	—
29.2	25	2190	½" NPT	3.02"	73	**15J060**	**15J061**	—	—

EXAIR®

Air Conveyors and Air Conveyor Kits

- Pressure range: 20 to 250 psi
- Temp. rating: 275°F for aluminum; 400°F for stainless steel and hardened steel alloy

Connect conveyors to common hose or duct to move large volumes of material over long distances with a small amount of compressed air. Kits include mounting bracket, filter separator, pressure regulator, and filter/regulator mounting hardware. Pressure regulator makes it easy to control the material flow rate. Ideal for bulk material and scrap.

Hardened Steel Alloy—Heavy-duty conveyors can move more material over longer lengths. Hardened steel alloy won't wear prematurely and can withstand abrasive material applications.



No. 4LCN9

Hose Size	Air Consumption*	Vacuum	Air Inlet	ALUMINUM Vacuum Conveyor Item No.	ALUMINUM Vacuum Conveyor Kit Item No.	STAINLESS STEEL Vacuum Conveyor Item No.	STAINLESS STEEL Vacuum Conveyor Kit Item No.
¾"	10.7 scfm	-72 in. H2O	¼" NPT	**4LCN1**	**4LCN2**	**4LCP2**	**4LCP3**
1"	14.7 scfm	-42 in. H2O	¼" NPT	**4LCN3**	**4LCN4**	**4LCP4**	**4LCP5**
1¼"	25.9 scfm	-42 in. H2O	¼" NPT	**4LCN5**	**4LCN6**	**4LCP6**	**4LCP7**
1½"	33 scfm	-36.8 in. H2O	⅜" NPT	**4LCN7**	**4LCN8**	**4LCP8**	**4LCP9**
2"	45 scfm	-28.5 in. H2O	⅜" NPT	**4LCN9**	**4LCP1**	**4LCR1**	**4LCR2**

Hose Size	Air Consumption*	Vacuum	Air Inlet	HARDENED STEEL ALLOY Vacuum Conveyor Item No.	HARDENED STEEL ALLOY Vacuum Conveyor Kit Item No.
¾"	26 scfm	-144 in. H2O	¼" NPT	**6KHL2**	**6KHL3**
1"	35 scfm	-105 in. H2O	¼" NPT	**6KHL4**	**6KHL5**
1¼"	49 scfm	-83 in. H2O	¼" NPT	**6KHL6**	**6KHL7**
1½"	55 scfm	-60 in. H2O	⅜" NPT	**6KHL8**	**6KHL9**
2"	75 scfm	-42 in. H2O	⅜" NPT	**6KHN0**	**6KHN1**

** Calculated at 80 psi.*

EXAIR®

Enclosure Coolers

- Pressure range: 80 to 120 psi
- Temp. rating: 125°F

Convert compressed air into cold air to keep enclosure from overheating. Units include thermostat, solenoid valve, filter, and cold air distribution kit. Side-mount kits are for use where space is limited on the top or sides of enclosure.

For Use With Grainger Item Number	Item No.
Side-Mount Lug Kits	
4LCK7	**20CL88**
4LCL1, 4LCL4, 4LCL7	**20CL89**
4LCK8, 4LCK9	**20CL90**
4LCL2, 4LCL3, 4LCL5, 4LCL6, 4LCL8, 4LCL9	**20CL91**



No. 4LCL7

CFM @ 100 psi	BtuH @ 100 psi	ALUMINUM NEMA 4 Max. dBA	ALUMINUM NEMA 4 Air Inlet	ALUMINUM NEMA 4 Item No.	STAINLESS STEEL NEMA 4X Max. dBA	STAINLESS STEEL NEMA 4X Air Inlet	STAINLESS STEEL NEMA 4X Item No.	STAINLESS STEEL, ALUMINUM KIT NEMA 12 Max. dBA	STAINLESS STEEL, ALUMINUM KIT NEMA 12 Air Inlet	STAINLESS STEEL, ALUMINUM KIT NEMA 12 Item No.
8	550	67	⅛" (F)NPT	**4LCK8**	67	⅛" (F)NPT	**4LCK9**	67	⅛" (M)NPT	**4LCK7**
15	1000	73	¼" (F)NPT	**4LCL2**	73	¼" (F)NPT	**4LCL3**	73	¼" (M)NPT	**4LCL1**
30	2000	80	¼" (F)NPT	**4LCL5**	80	¼" (F)NPT	**4LCL6**	74	¼" (M)NPT	**4LCL4**
35	2500	82	¼" (F)NPT	**4LCL8**	82	¼" (F)NPT	**4LCL9**	78	¼" (M)NPT	**4LCL7**

EXAIR®

Cold Gun Coolant Systems



No. 4LCJ3

- Inlet connection: ¼" (M)NPT, except Mini Cold Guns are ⅛" (M)NPT
- Pressure range: 80 to 120 psi
- Temp. drop: 50°F at 100 psi
- Aluminum/stainless steel body material

Improve dry machining and prolong tool life. Systems include cone and fan nozzles. Mini Cold guns produce at 550 BtuH, Cold guns at 1000 Btu, and High-Power guns at 2000 BtuH.

Description	Air Consumption*	Max. dBA*	SINGLE HOSE Item No.	DUAL HOSE Item No.
Mini Cold Gun	8 scfm	76	**38W847**	**38W848**
Cold Gun	15 scfm	70	**4LCJ1**	**4LCJ2**
High-Power Cold Gun	30 scfm	82	**4LCJ3**	**4LCJ4**

** Calculated at 80 psi.*

EXAIR®

Vortex Tube Spot Coolers



No. 4LCK6

- Pressure range: 80 to 120 psi
- 303 stainless steel

Cool compressed air supply to -50°F. Cooling kits include muffler, hose, and generators.

cfm @ 100 psi	Differential Range	BtuH @ 100 psi	Air Inlet	Item No.
Vortex Tubes				
8	28° to 129°F	550	⅛"(M)NPT	**4LCK2**
15	28° to 129°F	1000	¼" (M)NPT	**4LCK3**
25	28° to 129°F	1700	¼" (M)NPT	**4LCK4**
30	28° to 129°F	2000	¼" (M)NPT	**4LCK5**
40	28° to 129°F	2800	¼" (M)NPT	**4LCK6**
Vortex Tube Cooling Kits				
2 to 8	28° to 129°F	135 to 550	⅛" (M)NPT	**4LCK1**
10 to 40	28° to 129°F	650 to 2800	¼" (M)NPT	**4LCJ9**



No. 6JD24



No. 5Z649

Regenerative Blowers

Industrial-duty, oilless air blowers can be used for pressure or vacuum. Flow without pulsation at low noise levels and are dynamically balanced to eliminate vibration. Equipped with continuous duty TEFC motors, aluminum alloy impeller, mounting base, and housing. Use as original equipment or for upgraded performance. Pneumatic air tube conveying systems, vacuum cleaning systems, vacuum lifting, vacuum hold down, vacuum transport, bottle filling stations, printing presses, screen printing, air cushion tables, drying systems, weld fume extraction, textile machinery, dental equipment, waste and water fish pond aeration, aquarium aeration, aeration plating tanks, and air knife systems. For use with air and noncombustible, noncorrosive, nonexplosive gases.

Note: A vacuum or pressure relief valve (sold separately) is required for proper operation.

Performance ratings shown are rated with motor running at 60 Hz. If 50 Hz is used, deduct ⅙ from rating. Min. cfm ratings are at continuous flow. Relief valves are mandatory for flow conditions that are under min. or less.

Conversions: to psi = (in. of water x 0.036); to in. Hg = (in. of water x 0.074).

High-Pressure Turbo Blowers—Cast-aluminum blower housings and enclosed impellers provide higher pressure capabilities than centrifugal blowers.

Rebuild Kits—Contain all the essential parts needed for routine maintenance: silencer assembly, bearing shims, bearings, and shaft seal.

HP	Max. Pressure	Max. Flow Rate	Max. Vacuum	Voltage†	Full Load Amps	Inlet Size	Outlet Size	Mfr. Model	Item No.	REQUIRED RELIEF VALVE FOR PRESSURE Mfr. Model	REQUIRED RELIEF VALVE FOR PRESSURE Item No.	REQUIRED RELIEF VALVE FOR VACUUM Mfr. Model	REQUIRED RELIEF VALVE FOR VACUUM Item No.
Single-Stage, 1-Phase													
0.11	19.5" WC	19.5 CFM	18.7" WC	115/230	1.2/0.6	1¼" OD	1¼" OD	VFC080P-5T	**4Z749**	—	—	—	—
0.17	27.5" WC	27 CFM	26" WC	115/230	1.5/.75	1" (F)NPT	1" (F)NPT	VFC100P-5T	**5JEN9**	—	—	—	—
0.37	34" WC	42 CFM	33" WC	115/230	3.6/1.8	1" (F)NPT	1" (F)NPT	VFC200P-5T	**4Z750**	—	—	—	—
0.51	50" WC	56 CFM	45" WC	115/230	5.0/2.5	1¼" (F)NPT	1¼" (F)NPT	VFC300P-5T	**5Z187**	PV3	**5Z577**	—	—
1	80.5" WC	55 CFM	68" WC	115	4.5	1¼" (F)NPT	1¼" (F)NPT	VFD2S	**6JD19**	PRV-D2	**12F693**	VRV-D2	**12F706**
1.00	54.5" WC	98 CFM	50" WC	115/230	8.6/4.3	1½" (F)NPT	1½" (F)NPT	VFC400P-5T	**4Z751**	PV4	**5Z578**	VV4	**5Z574**
2.2	100" WC	110 CFM	96" WC	230	10	1½" (F)NPT	1½" (F)NPT	VFD41S	**6JD24**	PRV-D41	**12F696**	VRV-D41	**12F709**
2.5	80" WC	154 CFM	70" WC	200-230	11	1½" (F)NPT	1½" (F)NPT	VFC508P-2T	**5Z650**	PV5	**5Z579**	VV5	**5Z575**
Single-Stage, 3-Phase													
0.17	26.5" WC	27 CFM	26" WC	200-230/460	0.53/0.26	1" (F)NPT	1" (F)NPT	VFC100A-7W	**5JEP0**	—	—	—	—
0.33	37" WC	42 CFM	34" WC	200-230/460	1.2/0.6	1" (F)NPT	1" (F)NPT	VFC200A-7W	**5F242**	—	—	—	—
0.50	50" WC	56 CFM	45" WC	575	0.75	1¼" (F)NPT	1¼" (F)NPT	VFC300A-5W	**5JEP1**	PV3	**5Z577**	—	—
0.56	50" WC	56 CFM	45" WC	200-230/460	1.7/.85	1¼" (F)NPT	1¼" (F)NPT	VFC300A-7W	**5Z649**	PV3	**5Z577**	—	—
1.4	58" WC	89 CFM	50" WC	230/460	3.8/1.8	1½" (F)NPT	1½" (F)NPT	VFZ401A-7W	**53WC07**	PV4	**5Z578**	VV4	**5Z574**
1.4	58" WC	89 CFM	50" WC	575	1.4	1½" (F)NPT	1½" (F)NPT	VFZ401A-5W	**53WC08**	PV4	**5Z578**	VV4	**5Z574**
1.8	100" WC	110 CFM	96" WC	230	4.45	1½" (F)NPT	1½" (F)NPT	VFD41-L	**22NX88**	PRV-D41	**12F696**	VRV-D41	**12F709**
1.8	100" WC	110 CFM	96" WC	460	2.25	1½" (F)NPT	1½" (F)NPT	VFD41-H	**22NX89**	PRV-D41	**12F696**	VRV-D41	**12F709**
2.6	114" WC	110 CFM	105" WC	230	6.3	1½" (F)NPT	1½" (F)NPT	VFD42-L	**22NX90**	PV5	**5Z579**	VV5	**5Z575**
2.6	114" WC	110 CFM	105" WC	460	3.2	1½" (F)NPT	1½" (F)NPT	VFD42-H	**22NX91**	PV5	**5Z579**	VV5	**5Z575**
2.7	80" WC	135 CFM	80" WC	230/460	7.8/3.7	1½" (F)NPT	1½" (F)NPT	VFZ501A-7W	**53WC09**	PRV-D42	**12F697**	VRV-D42	**12F710**
2.7	80" WC	135 CFM	80" WC	575	3.0	1½" (F)NPT	1½" (F)NPT	VFZ501A-5W	**53WC10**	PRV-D42	**12F697**	VRV-D42	**12F710**
3.6	125" WC	200 CFM	113" WC	230	9.2	2" (F)NPT	2" (F)NPT	VFD6-L	**22NX94**	PRV-D5	**12F698**	VRV-D5	**12F711**
3.6	125" WC	200 CFM	113" WC	460	4.65	2" (F)NPT	2" (F)NPT	VFD6-H	**22NX95**	PRV-D5	**12F698**	VRV-D5	**12F711**
4	153" WC	150 CFM	122" WC	230	9.2	2" (F)NPT	2" (F)NPT	VFD5-L	**22NX92**	PV6	**5Z580**	VV6	**5Z576**
4	153" WC	150 CFM	122" WC	460	4.65	2" (F)NPT	2" (F)NPT	VFD5-H	**22NX93**	PV6	**5Z580**	VV6	**5Z576**
5	134" WC	173 CFM	96" WC	230/460	13.2/6.1	2" (F)NPT	2" (F)NPT	VFZ601A-7W	**53WC11**	PV0663	**12A246**	VV0662	**12F714**
5	134" WC	173 CFM	96" WC	575	4.9	2" (F)NPT	2" (F)NPT	VFZ601A-5W	**53WC12**	PV0663	**12A246**	VV0662	**12F714**
6.7	85" WC	217 CFM	9.7" WC	575	6.5	2" (F)NPT	2" (F)NPT	VFZ701A-5W	**53WC14**	PV7	**5Z654**	VV7	**5Z652**
6.7	105" WC	217 CFM	98" WC	230/460	17.6/8.1	2" (F)NPT	2" (F)NPT	VFZ701A-7W	**53WC13**	PV7	**5Z654**	VV7	**5Z652**
10.7	115" WC	379 CFM	105" WC	57	10.1	2½" (F)NPT	2½" (F)NPT	VFZ801A-5W	**53WC16**	PV8	**5Z655**	VV8	**5Z653**
10.7	115" WC	379 CFM	105" WC	230/460	27.8/12.6	2½" (F)NPT	2½" (F)NPT	VFZ801A-7W	**53WC15**	PV8	**5Z655**	VV8	**5Z653**
14.7	100" WC	574 CFM	80" WC	230/460	39.1/18.9	3" (F)NPT	3" (F)NPT	VFZ901A-7W	**53WC17**	PV8	**5Z655**	VV8	**5Z653**
14.7	100" WC	574 CFM	80" WC	575	15.2	3" (F)NPT	3" (F)NPT	VFZ901A-5W	**53WC18**	PV8	**5Z655**	VV8	**5Z653**
Single Stage, 3-Phase, High-Pressure Turbo Blowers													
1.2	11" WC	750 CFM	6.9" WC	230	9.3	4"	4"	RD6-L	**39UV94**		—	VRV305	**38UW92**
1.2	11" WC	750 CFM	6.9" WC	460	4.75	4"	4"	RD6-H	**39UV93**		—		—
7.5	40" WC	1342 CFM	25" WC	208-230/460	18.5/9.2	5½"	4"	VFT60-2	**1XDW9**		—		—
10	33" WC	2189 CFM	20.5" WC	208-230/460	24/12	6.30"	5½"	VFT65-2	**1XDX1**		—		—
15	43" WC	2824 CFM	26.9" WC	208-230/460	36/18	6.30"	6.30"	VFT71-2	**1XDX2**		—		—
25	58" WC	3178 CFM	36" WC	208-230/460	60/30	6.30"	6.30"	VFT72-2	**1XDX3**		—		—
30	71" WC	3561 CFM	44.4" WC	208-230/460	67.6/33.8	6.30"	6.30"	VFT73-2	**1XDX4**		—		—
2-Stage, 1-Phase													
1.20	125" WC	56 CFM	110" WC	104-127/208-254	14.2-12/7.2-6	1¼" (F)NPT	1¼" (F)NPT	2VFB30-1.2-5T	**38UW85**	PRV305	**38UW86**		—
2-Stage, 3-Phase													
1.20	125" WC	56 CFM	110" WC	208-275/380-480	3.9-3.68/2.2-2.12	1" (F)NPT	1" (F)NPT	2VFB30-1.2-7W	**38UW84**	PRV307	**38UW87**	VRV307	**38UW93**
3.42	169" WC	106 CFM	140" WC	208-275/380-480	10.4-9.4/5.85-5.52	1½" (F)NPT	1½" (F)NPT	2VFB40-3.42-7W	**38UW83**	PRV40	**38UW88**	VRV40	**38UW94**
6.16	192" WC	159 CFM	160" WC	208-275/380-480	16.1-15.7/9.3-9.1	2" (F)NPT	2" (F) NPT	2VFB50-6.16-7W	**38UW82**	PRV50	**38UW89**	VRV50	**38UW95**
7.40	200" WC	222 CFM	185" WC	208-275/380-480	26.1-21.1/13.8-12.1	2" (F)NPT	2" (F) NPT	2VFB60-8.4-7W	**38UW81**	PRV608	**38UW90**	VRV608	**38UW96**
11.50	265" WC	222 CFM	215" WC	208-275/380-480	30-24.4/16-14.1	2" (F)NPT	2" (F) NPT	2VFB60-11.5-7W	**38UW80**	PRV6011	**38UW91**	VRV6011	**38UW97**

For Use With	Item No.
Rebuild Kits	
5F242, 4Z750	**3DUU8**
5Z187, 5Z649	**3DUU9**
4Z751, 4Z752	**3DUV1**
4Z753, 5Z650	**3DUV2**
5Z188, 5JEP4	**3DUV3**
5Z651, 5JEP5	**3DUV4**
5Z189, 5JEP6	**3DUV5**
5F243, 5JEP7	**3DUV6**

Description	Max. Pressure	Max. Flow Rate	Max. Vacuum	Inlet/ Outlet Size	Mfr. Model	Item No.	REQUIRED RELIEF VALVE FOR PRESSURE Mfr. Model	REQUIRED RELIEF VALVE FOR PRESSURE Item No.	REQUIRED RELIEF VALVE FOR VACUUM Mfr. Model	REQUIRED RELIEF VALVE FOR VACUUM Item No.
Separate Drive Blowers, No Motors										
5 HP max.	115" WC	200 CFM	182" WC	2"	SD6-1 SD	**12F719**	PV0663	**12A246**	VV0662	**12F714**
10 HP max.	157" WC	275 CFM	142" WC	2½	SD7-1 SD	**12F720**	PV0663	**12A246**	VV0662	**12F714**
15 HP max.	145" WC	380 CFM	362" WC	2½	SD8-1 SD	**12F721**	PV0663-8	**12F702**	VV0663-8	**12F715**
20 HP max.	142" WC	620 CFM	590" WC	3"	SD9-1 SD	**12F722**	PV1268	**12F703**	VV1268	**12F716**

† Voltage range at 50 Hz. 1-phase 110 or 110/120V. 3-phase 190-230/380-460V.



No. 5F245

Inlet Filters with Replaceable Covers

Filters have perforated outer cylinders; inner cylinder is wrapped with fine 0.009" mesh screen. Replaceable filter covers are made of ⅞"-thick, 100% polyester filter media. They provide 80% efficiency to 5 microns and are for use with Fuji, Gast, Rotron, Siemens, and Spencer regenerative blowers.

Inlet (in.)	H (in.)	Dia. (in.)	For Use with Blower Nos.	FILTER AND COVER Mfr. Model	FILTER AND COVER Item No.	COVER ONLY Mfr. Model	COVER ONLY Item No.
1¼ (F)NPT	7⅜	3⅛	VFC100P-5T, VFC100A-7W, VFC200P-5T, VFC200A-7W, VFC300P-5T, VFC300A-7W, VFD3S, VFD2S	F-123	**5Z581**	C-123	**5Z584**
1½ (F)NPT	8	5⅛	VFC400P-5T, VFC400A-7W, VFC400A-5W, VFC508P-2T, VFC500A-7W, VFC500A-5W, VFD41, VFD41S, VFD42, VFD42S, VFD4	F-45	**5Z582**	C-45	**5Z585**
2 (F)NPT	14	5⅛	VFC600A-7W, VFC600A-5W, VFC700A-7W, VFC700A-5W, VFD5, VFD6, VFD5D	F-67	**5Z583**	C-67	**5Z586**
3 (M)NPT	23½	8¼	VFC800A-7W, VFC800A-5W, VFC904A-7W, VFC904A-5W, VFD6D, VFD8, VFD9	F-89	**5F244**	C-89	**5F245**

SPEEDAIRE

Positive Displacement Blowers and Vacuum Pumps

Drop-in replacements for various roots-type blowers and vacuum pumps. Used in various industrial applications such as pneumatic conveying, wastewater treatment, surface cleaning, and dairy milking. Handle continuous loads. Alloy steel timing gears assure nonslip timing. High-strength drive shaft provides greater blower durability and installation flexibility. High-strength cylinder with heat-dissipating fins for reduced noise and vibration. High-temperature seals provide leak-free operation in severe-duty applications. Blowers are available in horizontal and vertical configurations.



No. 2EPP4



No. 2EPP7



No. 2EPU8

Inlet Dia.	Outlet Dia.	Displacement	Max. Pressure	Max. Vacuum	RPM Range	CFM Range	HP Req.	Shaft Dia.	Overall Width	Overall Height	Overall Depth	Item No.
Horizontal Positive Blowers and Vacuum Pumps												
1" (F)NPT	1" (F)NPT	0.017 cu. ft./rev.	12 psi	15.0" Hg	1389 to 5275	22 to 73	0.8 to 5.1	0.625"	10"	7"	9.25"	**2EPN9**
1.25" (F)NPT	1.25" (F)NPT	0.045 cu. ft./rev.	15 psi	16.0" Hg	1091to 3600	40 to 138	1.1 to 11.5	0.750"	11.56"	8.875"	11.25"	**2EPP8**
1.5" (F)NPT	1.5" (F)NPT	0.069 cu. ft./rev.	15 psi	16.0" Hg	955 to 3600	72 to 218	1.7 to 17.7	0.875"	13.92"	10.438"	12.375"	**2EPR5**
2" (F)NPT	2" (F)NPT	0.035 cu. ft./rev.	7 psi	14.0" Hg	1389 to 5275	55 to 168	0.7 to 6.1	0.625"	12"	7"	9.25"	**2EPP2**
	2" (F)NPT	0.060 cu. ft./rev.	12 psi	15.0" Hg	1091 to 3600	57 to 186	1.6 to 12.3	0.750"	12.44"	8.875"	11.25"	**2EPP4**
2.5" (F)NPT	2.5" (F)NPT	0.104 cu. ft./rev.	7 psi	14.0" Hg	1091 to 3600	108 to 350	1.1 to 12.4	0.750"	15.06"	8.875"	11.25"	**2EPP6**
	2.5" (F)NPT	0.117 cu. ft./rev.	10 psi	16.0" Hg	955 to 3600	132 to 376	3.0 to 20	0.875"	16.17"	10.438"	12.375"	**2EPR1**
	2.5" (F)NPT	0.140 cu. ft./rev.	15 psi	16.0" Hg	764 to 2850	134 to 359	2.9 to 28.4	1.125"	16.38"	11.94"	15.375"	**2EPT2**
3" (F)NPT	3" (F)NPT	0.170 cu. ft./rev.	7 psi	14.0" Hg	955 to 3600	197 to 579	1.6 to 20.3	0.875"	18.67"	10.438"	12.375"	**2EPR3**
	3" (F)NPT	0.227 cu. ft./rev.	15 psi	16.0" Hg	637 to 2350	152 to 477	3.7 to 37.9	1.375"	18.615"	14.75"	18"	**2EPT8**
4" (F)NPT	4" (F)NPT	0.210 cu. ft./rev.	13 psi	16.0" Hg	764 to 2850	209 to 542	4.5 to 36.9	1.125"	18.38"	11.94"	15.375"	**2EPR7**
	4" (F)NPT	0.350 cu. ft./rev.	7 psi	14.0" Hg	764 to 2850	388 to 953	2.6 to 33.1	1.125"	22.38"	11.94"	15.375"	**2EPR9**
	4" (F)NPT	0.367 cu. ft./rev.	15 psi	16.0" Hg	546 to 2050	278 to 682	6 to 53.5	1.562"	21.125"	20.688"	22"	**2EPU5**
5" (F)NPT	5" (F)NPT	0.383 cu. ft./rev.	14 psi	16.0" Hg	637 to 2350	267 to 815	6.3 to 59.7	1.375"	21.865"	14.938"	18"	**2EPT4**
6" Flange Mount	6" Flange Mount	0.718 cu. ft./rev.	7 psi	14.0" Hg	637 to 2350	615 to 1614	4.1 to 56	1.375"	28.75"	16.25"	18.11"	**2EPT6**
	6" Flange Mount	0.733 cu. ft./rev.	10 psi	16.0" Hg	546 to 2050	601 to 1383	12 to 71.2	1.562"	26.625"	19.5"	22"	**2EPU1**
8" Flange Mount	8" Flange Mount	1.200 cu. ft./rev.	6 psi	12.0" Hg	546 to 2050	1121 to 2368	6.5 to 70	1.562"	33.625"	19.5"	22"	**2EPU3**
Vertical Positive Blowers and Vacuum Pumps												
1" (F)NPT	1" (F)NPT	0.017 cu. ft./rev.	12 psi	15.0" Hg	1945 to 5275	22 to 73	0.8 to 5.1	0.625"	10"	9.5"	6.5"	**2EPP1**
1.25" (F)NPT	1.25" (F)NPT	0.045 cu. ft./rev.	15 psi	16.0" Hg	1528 to 3600	40 to 138	1.1 to 11.5	0.750"	11.56"	12.37"	7.75"	**2EPP9**
1.5" (F)NPT	1.5" (F)NPT	0.069 cu. ft./rev.	15 psi	16.0" Hg	1337 to 3600	72 to 218	1.7 to 17.7	0.875"	13.92"	12.688"	8.375"	**2EPR6**
2" (F)NPT	2" (F)NPT	0.035 cu. ft./rev.	7 psi	14.0" Hg	1945 to 5275	55 to 168	0.7 to 6.1	0.625"	12"	9.5"	6.5"	**2EPP3**
	2" (F)NPT	0.060 cu. ft./rev.	12 psi	15.0" Hg	1528 to 3600	57 to 186	1.6 to 12.3	0.750"	12.44"	12.37"	7.75"	**2EPP5**
2.5" (F)NPT	2.5" (F)NPT	0.104 cu. ft./rev.	7 psi	14.0" Hg	1528 to 3600	108 to 350	1.1 to 12.4	0.750"	15.06"	12.37"	7.75"	**2EPP7**
	2.5" (F)NPT	0.117 cu. ft./rev.	10 psi	16.0" Hg	1337 to 3600	132 to 376	3.0 to 20	0.875"	16.17"	12.688"	8.375"	**2EPR2**
	2.5" (F)NPT	0.140 cu. ft./rev.	15 psi	16.0" Hg	1070 to 2850	134 to 359	2.9 to 28.4	1.125"	16.38"	16.6"	10.375"	**2EPT3**
3" (F)NPT	3" (F)NPT	0.170 cu. ft./rev.	7 psi	14.0" Hg	1337 to 3600	197 to 579	1.6 to 20.3	0.875"	18.67"	12.688"	8.375"	**2EPR4**
	3" (F)NPT	0.227 cu. ft./rev.	15 psi	16.0" Hg	891 to 2350	152 to 477	3.7 to 37.9	1.375"	18.615"	20.75"	12"	**2EPT9**
4" (F)NPT	4" (F)NPT	0.210 cu. ft./rev.	13 psi	16.0" Hg	1070 to 2850	209 to 542	4.5 to 36.9	1.125"	18.38"	16.6"	10.375"	**2EPR8**
	4" (F)NPT	0.350 cu. ft./rev.	7 psi	14.0" Hg	1070 to 2850	388 to 953	2.6 to 33.1	1.125"	22.38"	16.6"	10.375"	**2EPT1**
	4" (F)NPT	0.367 cu. ft./rev.	15 psi	16.0" Hg	764 to 2050	278 to 682	6 to 53.5	1.562"	21.125"	25.5"	19.375"	**2EPU6**
5" (F)NPT	5" (F)NPT	0.383 cu. ft./rev.	14 psi	16.0" Hg	891 to 2350	267 to 815	6.3 to 59.7	1.375"	21.865"	20.75"	12.375"	**2EPT5**
6" Flange Mount	6" Flange Mount	0.718 cu. ft./rev.	7 psi	14.0" Hg	891 to 2350	615 to 1614	4.1 to 56	1.375"	28.865"	20.75"	15"	**2EPT7**
	6" Flange Mount	0.733 cu. ft./rev.	10 psi	16.0" Hg	764 to 2050	601 to 1383	12 to 71.2	1.562"	26.625"	25.5"	17"	**2EPU2**
8" Flange Mount	8" Flange Mount	1.200 cu. ft./rev.	6 psi	12.0" Hg	764 to 2050	1121 to 2368	6.5 to 70	1.562"	33.625"	25.5"	17"	**2EPU4**

Container Size	ISO Viscosity Grade	Viscosity @ 40C	Viscosity @ 100C	PKG. QTY. 1 Item No.	PKG. QTY. 12 Item No.
Synthetic Lubricants					
1 qt.	220	1115 cSt	111 cSt	**2EPU7**	**2EPU8**

Container Size	NLGI Grade	Temp. Range	Dropping Point	Base	Pkg. Qty.	Item No.
Grease						
14.1 oz.	2	Up to 163°C	475 Degrees F	Synthetic Lithium Complex	10	**2EPU9**



No. 30J550

SMC

Vacuum Regulators

- Pressure range: -100 to -1.3kPa
- Temp. range: 5° to 60°C

Include bracket and gauge.

Max. Flow Rate	Port Size	Item No.
140Lpm	¼" NPT	**30J548**
240Lpm	5/16"	**30J549**
240Lpm	3/8"	**30J550**



No. 30J545

SMC

Water Separators

- Pressure range: -100 to 1000kPa
- Temp. range: 5° to 60°C

Include drain cock and water element.

Max. Flow	Port Size	Mfr. Model	Item No.	FILTER ELEMENTS Item No.
200Lpm	¼"	AMJ3000-N02B	**30J543**	**36LU36**
	3/8"	AMJ3000-N03B	**30J544**	**36LU36**
300Lpm	½"	AMJ4000-N04B	**30J545**	**36LU37**
500Lpm	¾"	AMJ5000-N06B	**30J546**	**36LU38**
	1"	AMJ5000-N10B	**30J547**	**36LU38**



SMC Vacuum Pads Available on Grainger.com®


No. 4UJE5

Air-Cooled Aftercoolers

AKG®

- Aluminum bar/plate material
- Max. pressure: 250 psi
- Mounting legs included

Remove harmful water, oil, and contaminants from compressed air systems. Compatible with most rotary and piston air compressors. Hollow profile reduces local peak strains, which significantly increases cooler service life. Internal and external fins optimize cooling power.

Max. Compressor	Max. Flow CFM @ 100 psi*	NPT Inlet/ Outlet Air (in.)	Max. Temp. (°F)	Fan HP	Voltage	Max. Amps	W (in.)	H (in.)	D (in.)	Item No.
20 HP	113	1	350	⅓	115/230	5.2/2.6	15.94	12.64	14.72	**4UJE4**
40 HP	245	1½	350	½	115/230	7/3.5	19.88	16.30	15.59	**4UJE5**
75 HP	539	2	350	½	115/230	8/4	26.38	21.00	17.75	**4UJE6**
125 HP	785	2	350	1	115/230	12.8/6.4	30.31	23.19	18.74	**4UJE7**
200 HP	1569	2½	350	2	230/460	6.2/3.1	37.00	27.72	22.60	**4UJE8**
350 HP	2300	3	350	5	230/460	13.2/6.6	40.94	35.90	24.76	**4UJE9**
500 HP	3016	4	350	7½	230/460	19.6/9.8	42.91	37.44	29.84	**4UJF1**
700 HP	4316	4	350	7½	230/460	19.6/9.8	48.82	44.25	30.28	**4UJF2**
1000 HP	4800	4	350	10	230/460	26/13	52.76	57.87	33.82	**4UJF3**

** Based on 15°F approach with 250°F inlet temp. and less than a 4 psi pressure drop.*


No. 4JME5

Flexible Rubber Hose

Parker

- Max. working pressure: 232 psi
- Temp. range: -4° to 140°F

Black hose has polyamide coupling material, synthetic braided reinforcement, and can be used with push-to-connect reusable fittings, sold separately on this page.

Fitting Size	L	Outside Dia.	For Use With	Mfr. Model	Item No.
1" x 1"	16"	38mm	25mm Aluminum Tubing	1001E25 00 01	**4JMG6**
1½" x 1½"	3 ft. 3"	54mm	40mm Aluminum Tubing	1001E40 00 02	**4JME5**


Pipe Clip
No. 4JMG4


Chamfer Tool
No. 4JML5


Marking Tool
No. 4JML7

Aluminum Tubing Accessories

Parker

Drilling Jig No. 48GF49 contains a drilling jig for 25mm and 40mm pipe. Used as a drilling guide for holes for the drop brackets.

Description	For Tubing O.D.	Thread Size	Material	Color	Mfr. Model	Item No.
Pipe Clip	16.50mm	¼"	Polyamide	Black	6697 17 01	**4JMK8**
	25mm	¼"	Polyamide	Black	6697 25 01	**4JMJ6**
	40mm	¼"	Polyamide	Black	6697 40 01	**4JMG4**
Threaded Rod Adapter	16.50mm, 25mm, 40mm	⅜" x ¼"	Brass	Brass	0169 00 05 00	**4JMK9**
Drilling Jig	22mm, 64mm	—	Brass	Blue	6698 01 03	**48GF49**
Drill Bit	25mm	—	Steel	Silver	6698 02 02	**4JML3**
	40mm	—	Steel	Silver	6698 02 01	**4JML2**
Pipe Cutter	16.50mm, 25mm, 40mm	—	Steel	Blue	6698 03 01	**4JML4**
Chamfer Tool	16.50mm, 25mm, 40mm	—	Plastic	Red	6698 04 01	**4JML5**
Deburring Tool	16.50mm, 25mm, 40mm	—	Steel	Blue	6698 04 02	**4JML6**
Marking Tool	16.50mm, 25mm, 40mm	—	Plastic	Blue	6698 04 03	**4JML7**
Tool Kit and Case, Drilling Jig, 2 Drilling Tools, Cutter for rigid pipe, Chamfer tool, Deburring tool, Set of tightening spanners and Marking tool					6698 00 05	**48GF48**


90° Elbow
No. 4JMJ9


Threaded Adapter
No. 4JMF3


In-Line Reducer
No. 4JMG2


Drop Bracket
No. 4JMF6


End Cap
No. 4JMH6


Union Connector
No. 4JMH4

Aluminum Tubing Fittings

Parker

Push-to-connect fittings are reusable and create instant connections; no need to thread, solder, or glue pipe.

Note: Additional sizes available on Grainger.com®.

Description	For Tubing O.D. 1	For Tubing O.D. 2	Fitting Size (NPT)	Material	Item No.
Ball Valves					
Ball Valve	16.50mm	—	½"	Treated Brass/Polyamide	**49K672**
	25.00mm	—	½"	Treated Brass/Polyamide	**49K673**
	25.00mm	—	½"	Treated Brass/Polyamide	**49K681**
	40.00mm	—	½"	Treated Brass/Polyamide	**49K682**
Elbows					
45° Elbow	25.00mm	—	½"	Treated Brass/Polyamide	**49K692**
	25.00mm	—	¾"	Treated Brass/Polyamide	**49K693**
	25.00mm	—	—	Polyamide	**4JMH5**
	40.00mm	—	1"	Treated Brass/Polyamide	**49K695**
	40.00mm	—	1½"	Treated Brass/Polyamide	**49K696**
	40.00mm	—	2"	Treated Brass/Polyamide	**49K697**
	40.00mm	—	—	Polyamide	**4JMF1**
90° Elbow	16.50mm	—	¼"	Treated Brass/Polyamide	**49K683**
	16.50mm	—	½"	Treated Brass/Polyamide	**49K684**
	16.50mm	—	—	Polyamide	**4JMJ9**
	25.00mm	—	½"	Treated Brass/Polyamide	**49K685**
	25.00mm	—	¾"	Treated Brass/Polyamide	**49K686**
	25.00mm	—	1"	Treated Brass/Polyamide	**49K687**
	25.00mm	—	—	Polyamide	**4JMG8**
	40.00mm	—	2"	Treated Brass/Polyamide	**49K691**
	40.00mm	—	—	Polyamide	**4JME7**
	40.00mm	—	1"	Treated Brass/Polyamide	**49K688**
	40.00mm	—	1¼"	Treated Brass/Polyamide	**49K689**
	40.00mm	—	1½"	Treated Brass/Polyamide	**49K690**
Tees					
Equal Tee	16.50mm	16.50mm	—	Polyamide	**4JMK1**
	25.00mm	25.00mm	—	Polyamide	**4JMG9**
	40.00mm	40.00mm	—	Polyamide	**4JME8**
Threaded Adapters					
Threaded Adapter	16.50mm	—	¼"	Plated Brass	**4JMK4**
	16.50mm	—	½"	Plated Brass	**4JMK5**
	25.00mm	—	½"	Plated Brass	**4JMH1**
	25.00mm	—	¾"	Plated Brass	**4JMH2**
	25.00mm	—	1"	Plated Brass	**4JMH3**
	40.00mm	—	1¼"	Brass	**20CM57**
	40.00mm	—	1"	Plated Brass	**4JMF3**
	40.00mm	—	1½"	Plated Brass	**4JMF4**
	40.00mm	—	2"	Plated Brass	**4JMF5**
Reducers					
In-Line Reducer	25.00mm	17.00mm	—	Treated Aluminum	**4JMJ3**
	40.00mm	25.00mm	—	Treated Aluminum	**4JMG2**
	63.00mm	40.00mm	—	Treated Aluminum	**4JMG3**
Pipe Fixing Clip Spacer					
Pipe Fixing Clip Spacer	—	—	—	Polyamide	**20CM62**
Manifolds					
Manifold	40.00mm	40.00mm	½"	Treated Brass/Polyamide	**49K680**
Brackets					
2-Port Wall Bracket	16.50mm	—	½"	Plated Brass	**4JMK7**
	25.00mm	—	½"	Plated Brass	**4JMJ5**
3-Port Wall Bracket	25.00mm	—	½"	Brass	**20CM61**
Drop Bracket	25.00mm	—	—	Polyamide	**4JMH7**
	25.00mm	17.00mm	—	Polyamide	**4JMH8**
	40.00mm	17.00mm	—	Polyamide	**4JMF6**
	40.00mm	25.00mm	—	Polyamide	**4JMF7**
End Cap	16.50mm	—	—	Polyamide	**4JMK3**
	25.00mm	—	—	Polyamide	**4JMH6**
	40.00mm	—	—	Polyamide	**4JMF2**
Simple Reducing Bracket	25.00mm	17.00mm	—	Polyamide	**4JMH9**
	40.00mm	25.00mm	—	Polyamide	**4JMF8**
Threaded Drop Bracket	25.00mm	—	½"	Polyamide	**4JMJ1**
	40.00mm	—	½"	Polyamide	**4JMF9**
Threaded Simple Reducing Bracket	25.00mm	—	½"	Polyamide	**4JMJ2**
	40.00mm	—	½"	Polyamide	**4JMG1**
U-Channel Fixing Bracket	—	—	—	Steel	**20CM63**
Union Connector	16.50mm	—	—	Polyamide	**4JMK2**
	25.00mm	—	—	Polyamide	**4JMH4**
	40.00mm	—	—	Polyamide	**4JME9**
Wall Bracket	16.50mm	—	½"	Treated Brass/Polyamide	**49K667**
	16.50mm	—	½"	Treated Brass/Polyamide	**49K669**
	19.05mm	—	½"	Treated Brass/Polyamide	**49K671**
	25.00mm	—	½"	Treated Brass/Polyamide	**49K668**
	25.00mm	—	½"	Treated Brass/Polyamide	**49K670**
Colectors					
Colector	25.00mm	25.00mm	½"	Treated Brass/Polyamide	**49K679**

International Air Treatment Standards

ISO Quality Class	Solid Particle - Maximum Number 0.1-0.5 Micron	0.1-1.0 Micron	0.1-5.0 Micron	Water - Pressure Dew Point °F	°C	Oil (Including Vapor)
1	100	1	—	-100	-70	0.01
2	100,000	1,000	10	-40	-40	0.1
3	—	10,000	500	-4	-20	1
4	—	—	1,000	37.4	3	5
5	—	—	20,000	44.6	7	—
6	—	—	—	50	10	—

ISO 8573.1 Air Quality Classes

Maintaining air quality is so important that the International Standards Organization (ISO) developed 6 compressed air quality classes, as defined by ISO 8573.1. Testing methodology established at 100°F inlet temperature, 100°F ambient temperature, and 100 psig.



No. 3YA51



No. 3YA44

SPEEDAIRE Hankison

Refrigerated Air Dryers

SPEEDAIRE® SERIES

Nos. 3YA49 and 3YA50 include an illuminated On/Off switch, high-efficiency separator, and no air loss float drain. Nos. 3YA51 to 3YA53 include an illuminated On/Off switch, high-efficiency separator and timed electric drain.

HANKISON® SERIES

Fully automatic operation ensures maximum moisture removal. Easily installed units come preassembled with quality components for long service life. All units with max. air compressor HP over 25 include a coalescing filter and auto-drain. Nos. 3YA43 and 3YA44 include high-efficiency separators without air loss, Power On light, and 6-ft. power cord. Nos. 3YA45 includes On/Off switch, Power On light, dew point indicator, and 6-ft. power cord.

CFM	Max. Air Compressor HP	ISO Class*	Max. Pressure	Max. Inlet Temp.	Voltage	Full Load Amps	Phase	Pipe Size	Overall Height	Overall Width	Overall Depth	Item No.	OPTIONAL MAINTENANCE KIT Item No.
Speedaire® Series													
10	3	6	250 psi	120°F	115VAC	2.52	1	⅜" O.D.	15"	13"	13"	3YA49	2DAY6
15	5	5	250 psi	120°F	115VAC	2.63	1	⅜" O.D.	15"	13"	13"	3YA50	2DAY6
25	7.5	6	250 psi	120°F	115VAC	6.00	1	¾" NPT	22"	15"	16"	3YA51	2DAY7
35	10	6	250 psi	120°F	115VAC	6.00	1	¾" NPT	22"	15"	16"	3YA52	2DAY7
50	15	6	250 psi	120°F	115VAC	7.25	1	¾" NPT	22"	20"	20"	3YA53	2DAY7
75	20	5	232 psi	120°F	115VAC	5.6	1	1"	24"	14"	32"	435Y05	2DAY8
100	25	5	232 psi	120°F	115VAC	7.0	1	1"	24"	14"	32"	435Y07	2DAY8
125	30	5	232 psi	120°F	115VAC	7.0	1	1"	24"	14"	32"	435Y08	2DAY8
150	40	5	232 psi	120°F	115VAC	11.20	1	1" NPT	21"	13"	30"	2DAZ5	2DAY8
	40	5	232 psi	120°F	230VAC	5.2	1	1" NPT	24"	14"	35"	48YP22	—
200	50	6	232 psi	120°F	460VAC	2.40	3	1½" NPT	30"	17"	36"	2DAZ6	2DAY9
	50	5	232 psi	120°F	230VAC	7.8	1	2" NPT	30"	17"	37"	48YP23	—
250	60	6	232 psi	120°F	460VAC	2.60	3	1½" NPT	30"	17"	36"	2DAZ7	2DAY9
	60	5	232 psi	120°F	230VAC	9.6	1	2" NPT	30"	17"	37"	48YP24	—
300	75	6	232 psi	120°F	460VAC	3.70	3	1½" NPT	30"	20"	38"	2DAZ8	2DAZ1
	75	5	232 psi	120°F	230VAC	10.7	1	2" NPT	32"	19"	44"	48YP25	—
400	75	6	232 psi	120°F	460VAC	4.00	3	2" NPT	30"	20"	38"	2DAZ9	2DAZ1
	75	5	232 psi	120°F	230VAC	14.5	1	2" NPT	32"	19"	44"	48YP26	—
500	100	5	232 psi	120°F	460VAC	4.4	3	2"	32"	25"	41"	435Y09	—
Speedaire® Alpha Pure Series with Cooling Fans													
10	3	5	232 psi	122°F	115VAC	6.1	1	½" NPT	30"	19"	18"	53RG55	2DAY5
15	5	5	232 psi	122°F	115VAC	6.1	1	½" NPT	30"	19"	18"	53RG56	2DAY5
25	7.5	5	232 psi	122°F	115VAC	8.3	1	½" NPT	30"	19"	18"	53RG57	2DAY5
35	10	5	232 psi	122°F	115VAC	8.3	1	¾" NPT	30"	19"	18"	53RG58	2DAY5
50	15	5	232 psi	122°F	115VAC	8.3	1	¾" NPT	38"	20"	21"	53RG59	2DAY5
Hankison® Series													
10	3	6	250 psi	120°F	115VAC	2.52	1	⅜" O.D.	15"	13"	13"	3YA43	2DAX5
15	5	5	250 psi	120°F	115VAC	2.63	1	⅜" O.D.	15"	13"	13"	3YA44	2DAX5
25	7.5	6	250 psi	120°F	115VAC	6.00	1	¾" NPT	22"	15"	16"	3YA45	2DAX6
35	10	6	250 psi	120°F	115VAC	6.00	1	¾" NPT	22"	15"	16"	3YA46	2DAX6
50	15	6	250 psi	120°F	115VAC	7.25	1	¾" NPT	22"	20"	20"	3YA47	2DAX6
75	20	5	232 psi	120°F	115VAC	5.6	1	1"	24"	14"	32"	435Y06	2DAX5

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig.*



No. 53RG55

SPEEDAIRE

Refrigerated Compressed Air Dryers

- ISO Class: 5*
- Max. incoming pressure: 232 psi
- Max. inlet temp.: 122°F
- 115V
- 6.1 full-load amps

Refrigerated compressed air dryer helps to dry air by passing it through a refrigerated heat exchanger. By cooling the air that enters the compressor, the dryer allows water vapor to condensate and drain out. Providing dry air can help protect your pneumatic piping, tools, and equipment. Also features digital controller and power saving low-pressure drop.

Max. Air Compressor HP	CFM	Max. Pressure	Full Load Amps	Pipe Size	Overall Height	Overall Width	Overall Depth	Item No.
3	10	232 psi	6.1	½" NPT	30"	19"	18"	**53RG55**
5	15	232 psi	6.1	½" NPT	30"	19"	18"	**53RG56**
7.5	25	232 psi	8.3	½" NPT	30"	19"	18"	**53RG57**
10	35	232 psi	8.3	¾" NPT	30"	19"	18"	**53RG58**
15	50	232 psi	8.3	¾" NPT	38"	20"	21"	**53RG59**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*



No. 29FK71



No. 2HUE1

Ingersoll Rand

Refrigerated Cycling Air Dryers

- ISO Class: 4*

Refrigeration compressor turns off during periods of reduced loads to match actual compressed airflow, drawing only the energy required to provide continuous-pressure dew point performance. Innovative centrifugal separator allows high moisture separation and removal. Unwanted water from the air is discarded through a timed condensate drain.

Max. Air Compressor HP	CFM	Max. Pressure	Full Load Amps	Pipe Size	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Max. Inlet Temp. 120°F, Max. Ambient Temp. 113°F° 115VAC, 1 Phase									
15	75	200 psi	13.5	1" NPT	30 13/32"	22 13/32"	16 39/64"	D127EC	**29FK71**
20	100	200 psi	15.5	1" NPT	30 13/32"	22 13/32"	16 39/64"	D170EC	**29FK72**
25	125	200 psi	15.5	1" NPT	30 13/32"	22 13/32"	16 39/64"	D212EC	**29FK73**
40	150	230 psi	20	1½" NPT	31"	14"	35"	D255NC-A16-1	**2HUD8**
Max. Inlet Temp. 120°F, Max. Ambient Temp. 113°F° 460VAC, 3 Phase									
50	200	230 psi	6	1½" NPT	58"	28"	30"	NVC200	**2HUD9**
60	300	230 psi	10	2" NPT	58"	28"	30"	NVC300	**2HUE1**
75	400	230 psi	12	2" NPT	58"	28"	30"	NVC400	**2HUE2**
100	600	230 psi	15	3" NPT	62"	42"	40"	NVC600	**2HUE3**
150	700	230 psi	20	3" NPT	62"	42"	40"	NVC700	**2HUE4**
	800	230 psi	20	3" NPT	62"	42"	40"	NVC800	**2HUE5**
	1000	220 psi	25	4" Flange	69"	32"	72"	NVC1000	**2HUE6**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*



No. 2HUC9

Ingersoll Rand

Heatless Twin Tower Regenerative Desiccant Air Dryers

- ISO Class: 2*
- Max. working pressure: 150 psi
- Max. inlet temp.: 120°F
- 115V
- 5.0 full-load amps

1-phase units feature advanced microprocessor controllers and include prefilters and afterfilters to remove oil and contaminates. NEMA 4 enclosure protects controller against water and condensation. Easy desiccant change. Switching valves direct wet inlet air between the 2 towers to provide a continuous supply of dry air. Diagnostic controls show regenerative sequence status.

CFM	Inlet/Outlet NPTF (in.)	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
120	1	63	40½	30	HLA1201H00AA	**2HUC4**
160	1½	66	44½	32	HLA1601H00AA	**2HUC5**
200	1½	66	44½	32	HLA2001H00AA	**2HUC6**
250	1½	67	48½	32	HLA2501H00AA	**2HUC7**
300	2	67	48½	32	HLA3001H00AA	**2HUC8**
400	2	68	52½	36	HLA4001H00AA	**2HUC9**
500	2	83	56½	40	HLA5001H00AA	**2HUD1**
600	2	83	56½	42	HLA6001H00AA	**2HUD2**
800	3	88	64	51	HLA800	**2HUD3**
1000	3	88	64	51	HLA1000	**2HUD4**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*



No. 2DBA2

Hankison®

Regenerative Twin Tower Desiccant Air Dryers

- ISO Class: 2 (established at 100°F ambient temp., 100 psig)*

1-phase 110V bottle units provide critically dry air in a compact package.

Hankison® DHW Series—Wall-mounted units provide protection to air systems exposed to temperatures below freezing. Automatic operation and stored adsorptive energy result in long desiccant life. Coalescing prefilter and after filter are included. Front-mounted control panel.

- Max. inlet temp.: 120°F
- Max. ambient temp.: 120°F
- 120/110V

CFM	Max. Working Pressure (psi)	Full Load Amps	Inlet/ Outlet NPTF (in.)	H (in.)	W (in.)	D (in.)	DRYERS Item No.	OPTIONAL MAINTENANCE KITS Item No.
Hankison® DHW Series								
7.3	150	0.3	½	30½	17½	6⅝	**2DBA2**	**2DBA9**
13.4	150	0.3	½	30½	17½	6⅝	**2DBA3**	**2DBA9**
20.4	150	0.3	½	30½	17½	6⅝	**2DBA4**	**2DBB1**
25	150	0.4	½	30½	24⅜	8½	**2DBA5**	**2DBB1**
30.2	150	0.4	½	30½	24⅜	8½	**2DBA6**	**2DBB1**
35.2	150	0.6	½	30½	24⅜	8½	**2DBA7**	**2DBB1**
50	150	0.6	½	43⅜	24⅜	8½	**2DBA8**	**2DBB2**

** For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

SPEEDAIRE

Disposable In-Line 4-Stage Desiccant Filter/Dryer



Ideal for paint-spraying applications. Removes dust, dirt, water vapor, and oil aerosols that may have bypassed main air filtration system. Blue desiccant bead lowers dew point to -40°F and removes all water vapor. Replace filter when blue beads turn pink. Bidirectional flow.

3¾" x 1 11⁄16" dia. ¼" NPT with female inlet and male outlet; can be attached at either end. 15 cfm.

Max. Operating (psi)	Max. Operating Temp. (°F)	Item No.	Pkg. Qty.
125	130	**6ZC63**	2



No. 5VC89



No. 5Z610



No. 5Z611



No. 2YNL6

Desiccant Air Dryers

SPEEDAIRE WILKERSON

Ideal for drying small volumes of air at the point of use. Protect branch lines exposed to temperatures below freezing. Convenient in-line mounting saves space. Premeasured desiccant packaged in convenient, easy-to-use bags for less waste.

Multistage Desiccant Dryers—All-in-one units also contain activated charcoal to remove oil and oil vapors. Suitable for paint spray applications including waterborne paints. Dew point to -30°F. Nos. 4UDK5 and 2YNL7 are 4-stage dryers. No. 2YNL6 is 5-stage.

ISO Class*	CFM	Max. SCFM @ 100 psi	Total Cap. (cu. ft.)	Max. Operating (psi)	Max. Operating Temp. (°F)	Inlet/ Outlet NPTF (in.)	H (in.)	W (in.)	Brand	Item No.	REPLACEMENT DESICCANT Refills	Item No.
Desiccant Air Dryers, ISO Class 3												
3	5	5	2300	175	125	¼	12	4⅛	Speedaire	**5VC89**	2	**5VD07**
3	10	10	4600	175	125	¼	11⅞	4⅛	Speedaire	**5VC90**	2	**5VD08**
3	25	25	11,000	175	125	½	20	4⅛	Speedaire	**5VC91**	4 Bags, 2 Refills	**5VD09**
3	30	30	13,800	175	125	½	27⅞	4⅛	Speedaire	**5VC92**	2	**5VD10**
Desiccant Air Dryers, ISO Class 2												
2	5	5	600	150	125	¼	6½	3	Wilkerson	**5Z610**	3	**5Z613**
2	10	10	4,400	150	125	¼	13⅞	4 13⁄16	Wilkerson	**5Z611**	4	**5Z612**
2	25	25	11,000	150	125	½	21 5⁄16	4 13⁄16	Wilkerson	**5Z769**	3	**5Z770**
Desiccant Filter/Dryers												
2	30	30	2500	175	125	½	16⅞	3	Speedaire	**2YNL2**	1	**2YNL3**
2	40	40	5000	175	125	½	21¼	4	Speedaire	**2YNL4**	1	**2YNL5**
Multistage Desiccant Dryers												
2	15	15	2,500	125	120	½	11¼	14¼	Speedaire	**4UDK5**	(6) 1-quart Containers	**36J473**
2	25	25	5000	250	120	½	16½	18¼	Speedaire	**2YNL7**	(6) 1-quart Containers	**36J473**
2	30	30	12,500	250	120	½	27	18¼	Speedaire	**2YNL6**	(4) 1 Gal. Containers	**6YTP5**

** ISO Class dryer capacities established at 100°F ambient temp., 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*



No. 4HEP3



No. 2DBB5

Membrane Air Dryers

Hankison® Parker

Hankison® HMM Series—Units constantly exhaust extracted water vapor into the ambient surroundings. NEMA 7 Hazardous Environments. Grade 5 high-efficiency oil removal prefilter included.

- ISO Class: 2 to 6*
- Max. inlet temp.: 150°F
- Max. ambient temp.: 150°F

Hankison® SSM Series—Digital purge control governs a 2-way valve to control the venting sweep air, for applications where processed air demands start and stop. Grade 5 high-efficiency oil removal prefilter included.

- ISO Class: 2 to 6*
- Max. inlet temp.: 150°F
- Max. ambient temp.: 150°F

Parker AD Series—No electricity required; safe for hazardous environments (NEMA 7). Auto drain, water separator, and Grade BX coalescing filter included. Average membrane life: 15 yr.

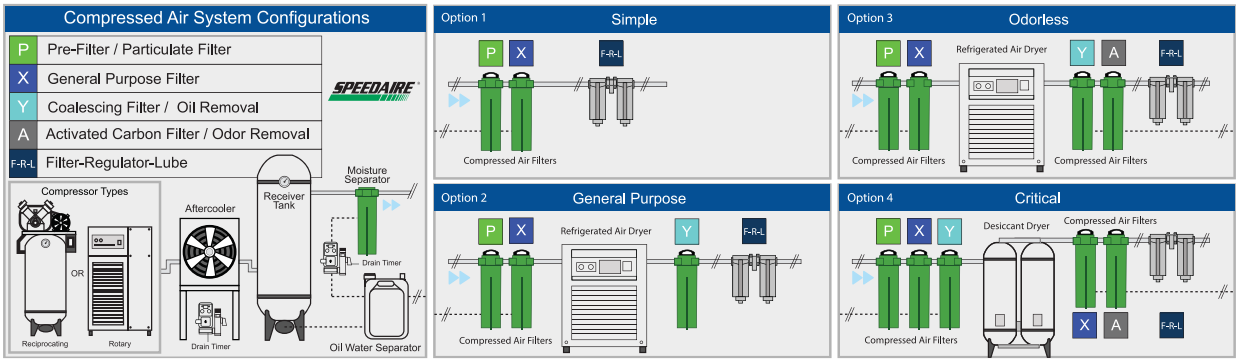
- ISO Class: 4 to 6*
- Max. inlet temp.: 120°F
- Max. ambient temp.: 120°F
- +35°F dew point (at rated flow)

For Use With	Item No.
Replacement Auto Drain	
4HEP4 4HEP5, 4HEP6, 4HEP7	**4YPR1**

CFM	Phase	Inlet/ Outlet (in.)	Max. Pressure (psi)	H (in.)	W (in.)	DRYERS Mfr. Model	DRYERS Item No.	KITS & ELEMENTS Mfr. Model	KITS & ELEMENTS Item No.
Hankison® HMM Series								**Optional Maintenance Kits**	
0.34 to 1.40	—	⅜	200	11	8	HMM1-3F	**2DBB5**	HFM5-12M	**2DBB3**
1.28 to 4.55	—	⅜	200	15	8	HMM2-3F	**2DBB6**	HFM5-12M	**2DBB3**
2.18 to 9.55	—	½	200	19	8	HMM3-4F	**2DBB7**	HFM5-12M	**2DBB3**
4.09 to 13.67	—	½	200	27	8	HMM4-4F	**2DBB8**	HFM5-12M	**2DBB3**
4.6 to 24.5	—	¾	200	20	11	HMM5-6F	**2DBB9**	HFM5-24M	**2DBB4**
12.0 to 40.4	—	¾	200	27	11	HMM6-6F	**2DBC1**	HFM5-24M	**2DBB4**
Hankison® SSM Series									
0.34 to 1.40	1	⅜	200	16	8	SMM1-3F	**2DBC2**	—	—
1.28 to 4.55	1	⅜	200	20	8	SMM2-3F	**2DBC3**	—	—
2.18 to 9.55	1	½	200	24	8	SMM3-4F	**2DBC4**	—	—
4.09 to 13.67	1	½	200	32	8	SMM4-4F	**2DBC5**	—	—
4.6 to 24.5	1	¾	200	25	11	SMM5-6F	**2DBC6**	—	—
12.0 to 40.4	1	¾	200	32	11	SMM6-6F	**2DBC7**	—	—
Parker AD Series								**Replacement Filter Elements (Pk. 4)**	
1	—	¼	150	5.4	18.8	AD0010-35	**4HEP3**	4/050-05-BX	**4YPN6**
3	—	¼	150	9.4	22.1	AD0030-35	**4HEP4**	4/100-12-BX	**4YPN8**
8	—	¼	150	9.4	27.5	AD0080-35	**4HEP5**	4/100-12-BX	**4YPN8**
20	—	½	150	12.4	28.5	AD0200-35	**4HEP6**	4/100-18-BX	**4YPP2**
40	—	½	150	12.4	44.5	AD0400-35	**4HEP7**	4/100-18-BX	**4YPP2**

** For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

Compressed Air System Configurations





No. 4GNL4

Condensate Separators

SPEEDAIRE WILKERSON

Feature a centrifugal airflow pattern that helps remove bulk contaminants from the compressed air stream. Low pressure drop. Separators equipped with auto drain automatically discharge condensate and dirt.

Note: For additional sizes, go to Grainger.com® and search by "Condensate Separators".

NPT Size	Max. Flow CFM @ 100 psi	Max. Pressure (psi)	Max. Temp.	H (in.)	Dia.	Auto Drain Stock No.	Brand	Mfr. Model	FILTER Item No.	WALL BRACKET Item No.
¼"	15	235	176	13.2	4	Included	Speedaire	4GNL3	4GNL3	35GM64
½"	60	235	176	13.2	4	Included	Speedaire	4GNL4	4GNL4	35GM65
	50	200	150	7.34	3.35	Included	Wilkerson	WSA-04-FM0	5Z771	—
¾"	120	235	176	13.2	4.8	Included	Speedaire	4GNL5	4GNL5	35GM65
	100	200	150	10	4.625	Included	Wilkerson	WSA-06-FM0	5Z614	—
1"	175	235	176	13.2	4.8	Included	Speedaire	4GNL6	4GNL6	35GM65
	120	200	150	10	4.625	Included	Wilkerson	WSA-08-FM0	5Z615	—
	233	230	175	10.875	5.125	5Z617	Wilkerson	WS0-08-000B	1AGJ4	—
1½"	350	235	176	13.2	4.8	Included	Speedaire	4GNL7	4GNL7	35GM66
	750	250	175	16.96	8.22	4ZK14	Speedaire	4ZL13	4ZL13	—
	742	230	175	17	6.750	5Z617	Wilkerson	WS0-0B-000B	1AGJ5	—
2"	700	235	176	22	7.2	Included	Speedaire	4GNL8	4GNL8	35GM66
	750	250	175	16.96	8.22	4ZK14	Speedaire	4ZL15	4ZL15	—
	742	230	175	17	6.750	5Z620	Wilkerson	WS0-0C-000B	1AGJ6	—
3"	1300	235	176	28.8	10	Included	Speedaire	4GNL9	4GNL9	35GM68

Description	Item No.
Accessory	
Float Drain, Replacement for Nos. 4GNL3 to 4GNL9	4GNN2



No. 19RU30

SPEEDAIRE

Oil and Water Mist Eliminators

Deliver high quality compressed air and help protect systems against slugs of oil and compressor separator failure. Models have long life and are suitable for harsh operating conditions. Eliminators remove oil-mist, water, and particle carryover (1 micron) from piston or oil-flooded rotary compressors. Models have a low pressure drop (0.5 psi/0.03 bar) and a maximum oil aerosol content of 0.5 ppm. Eliminators with flow rates up to 6000 cfm are available on Grainger.com.

Connection Size	Max. Flow	Item No.	ELEMENT Item No.
Eliminators			**Elements**
2" Flange	150 cfm	19RU30	19RU40
	300 cfm	19RU31	19RU41
	600 cfm	19RU32	19RU42
3" Flange	800 cfm	19RU33	19RU43
	1200 cfm	19RU34	19RU44



Hankison

Air/Liquid Bypass Valve

Service components without shutting down the system; simply push 1 button to change modes. Push-button can be locked in place to make valve tamperproof. Inlet and outlet fittings are compression type with rubber ferrule. Ideal for most brands of refrigerated dryers, 5 to 15 cfm. Can be used with liquid and gases compatible with nylon, Buna N, and brass.

Inlet Port	Max. Temp.	Outlet Port	Mfr. Model	Item No.
⅜" O.D.	120°F	⅜" O.D.	1701-2	5Z777



No. 38XT51

SPEEDAIRE

High-Pressure Compressed Air Filters

- Max. pressure: 725 psi

Rugged filters are constructed of heavy-duty, no-weld, fully anodized aluminum. Include a manual drain. Filters with a max. pressure of 5075 psi are available on Grainger.com®.

Connection Size	Max. Flow	Pre-Filter, 5 Micron Item No.	Gen. Purpose, 1 Micron Item No.	Oil Removal, 0.01 Micron Item No.	Activated Carbon, 0.01 Micron Item No.	ELEMENT, Pre-Filter, 5 Micron Item No.	ELEMENT, Gen. Purpose, 1 Micron Item No.	ELEMENT, Oil Removal, 0.01 Micron Item No.	ELEMENT, Activated Carbon, 0.01 Micron Item No.
Filters						**Element**			
¼" NPT	42 cfm	38XT68	38XT34	38XR64	38XR89	38XR98	38XR74	38XT36	38XR48
½" NPT	125 cfm	38XT19	38XT23	38XT51	38XR57	38XT15	38XR35	38XR91	38XR81
¾" NPT	250 cfm	38XR41	38XT25	38XT44	38XR52	38XR97	38XR86	38XR75	38XT75
1" NPT	350 cfm	38XR84	38XT04	38XT74	38XR50	38XR82	38XT66	38XT30	38XT43
	500 cfm	38XR99	38XR34	38XR92	38XT13	38XT73	38XR77	38XT24	38XT69
1½" NPT	940 cfm	38XR53	38XT62	38XT38	38XR96	38XT07	38XR66	38XR60	38XT12
2" NPT	1470 cfm	38XT42	38XR51	38XT14	38XT08	38XR72	38XT50	38XR95	38XT29
2½" NPT	1765 cfm	38XR55	38XT64	38XR37	38XT03	38XT59	38XR62	38XR38	38XR73

Compressed Air Filters

SPEEDAIRE®

- Max. pressure: 290 psi (20.0 bar)
- Max. temp.: 176°F (122°F for activated carbon filters)
- Include float drain (except activated carbon filters)

Efficiently remove oil, oil vapor, particulates, water, and other contaminants. Units feature aluminum body with epoxy powder-coated finish. Tie Rod filters use a threaded post-mounted element. Zero Clearance filters use a drop-in cartridge and require no vertical clearance. Activated Carbon filters are not intended for removing carbon dioxide or carbon monoxide.

Optional Wall Bracket & Filter Clamp Reference	OPTIONAL WALL BRACKETS Item No.	OPTIONAL FILTER CLAMPS Item No.
Wall Brackets & Filter Clamps		
A	35GM64	35GM59
B	35GM65	35GM60
C	35GM66	35GM61
D	35GM67	35GM62
E	35GM68	35GM63

Description	Item No.
Accessories	
Differential Pressure Gauge (Compact)	35GN17
Differential Pressure Gauge	20Z911
Float Drain	4GNN2

Pipe Size	Max. Flow	Pre-Filter, 5 Micron Item No.	Gen. Purpose, 1 Micron Item No.	Oil Removal, 0.01 Micron Item No.	Activated Carbon, 0.01 Micron Item No.	ELEMENT, Pre-Filter, 5 Micron Item No.	ELEMENT, Gen. Purpose, 1 Micron Item No.	ELEMENT, Oil Removal, 0.01 Micron Item No.	ELEMENT, Activated Carbon, 0.01 Micron Item No.	Optional Wall Bracket & Filter Clamp Ref.
Filters with Gauge - Tie Rod (Compact)						**Element**				**Bracket/Clamp**
¼" NPT	12 cfm	35GM85	35GM86	35GM87	35GM84	35GN09	35GN10	35GN11	35GN12	A
	24 cfm	35GM97	35GM98	35GM99	35GM96	35GN13	35GN14	35GN15	35GN16	A
⅜" NPT	12 cfm	35GM89	35GM90	35GM91	35GM88	35GN09	35GN10	35GN11	35GN12	A
	24 cfm	35GN02	35GN03	35GN04	35GN01	35GN13	35GN14	35GN15	35GN16	A
½" NPT	12 cfm	35GM93	35GM94	35GM95	35GM92	35GN09	35GN10	35GN11	35GN12	A
	24 cfm	35GN06	35GN07	35GN08	35GN05	35GN13	35GN14	35GN15	35GN16	A
Filters with Gauge - Tie Rod						**Element**				**Bracket/Clamp**
¼" NPT	15 cfm	4GNW7	4GNW8	4GNW9	4GNW6	4GPD9	4GPE1	4GPE2	4GPD8	A
	30 cfm	35GN27	35GN28	35GN29	35GN26	4GPE4	4GPE5	4GPE6	4GPE3	A
⅜" NPT	15 cfm	35GN19	35GN20	35GN21	35GN18	4GPD9	4GPE1	4GPE2	4GPD8	A
	30 cfm	4GNX2	4GNX3	4GNX4	4GNX1	4GPE4	4GPE5	4GPE6	4GPE3	A
	58 cfm	35GN35	35GN36	35GN37	35GN34	4GPE8	4GPE9	4GPF1	4GPE7	B
½" NPT	15 cfm	35GN23	35GN24	35GN25	35GN22	4GPD9	4GPE1	4GPE2	4GPD8	A
	30 cfm	35GN31	35GN32	35GN33	35GN30	4GPE4	4GPE5	4GPE6	4GPE3	A
	58 cfm	4GNX6	4GNX7	4GNX8	4GNX5	4GPE8	4GPE9	4GPF1	4GPE7	B
	88 cfm	35GN39	35GN40	35GN41	35GN38	4GPF3	4GPF4	4GPF5	4GPF2	B
¾" NPT	88 cfm	4GNY1	4GNY2	4GNY3	4GNX9	4GPF3	4GPF4	4GPF5	4GPF2	B
	117 cfm	4GNY5	4GNY6	4GNY7	4GNY4	4GPF7	4GPF8	4GPF9	4GPF6	B
	147 cfm	35GN50	35GN51	35GN52	35GN53	4GPG2	4GPG3	4GPG4	4GPG1	B
1" NPT	88 cfm	35GN43	35GN44	35GN45	35GN42	4GPF3	4GPF4	4GPF5	4GPF2	B
	117 cfm	35GN46	35GN47	35GN48	35GN49	4GPF7	4GPF8	4GPF9	4GPF6	B
	147 cfm	4GNY9	4GNZ1	4GNZ2	4GNY8	4GPG2	4GPG3	4GPG4	4GPG1	B
	176 cfm	35GN54	35GN55	35GN56	35GN57	4GPG6	4GPG7	4GPG8	4GPG5	B
1¼" NPT	176 cfm	4GNZ4	4GNZ5	4GNZ6	4GNZ3	4GPG6	4GPG7	4GPG8	4GPG5	B
	294 cfm	4GNZ8	4GNZ9	4GPA1	4GNZ7	4GPH1	4GPH2	4GPH3	4GPG9	B
	353 cfm	35GN66	35GN67	35GN68	35GN69	4GPH5	4GPH6	4GPH7	4GPH4	C
	500 cfm	35GN70	35GN71	35GN72	35GN73	4GPH9	4GPJ1	4GPJ2	4GPH8	C
1½" NPT	176 cfm	35GN58	35GN59	35GN60	35GN61	4GPG6	4GPG7	4GPG8	4GPG5	B
	294 cfm	35GN62	35GN63	35GN64	35GN65	4GPH1	4GPH2	4GPH3	4GPG9	B
	353 cfm	4GPA3	4GPA4	4GPA5	4GPA2	4GPH5	4GPH6	4GPH7	4GPH4	C
	500 cfm	35GN74	35GN75	35GN76	35GN77	4GPH9	4GPJ1	4GPJ2	4GPH8	C
2" NPT	500 cfm	4GPA7	4GPA8	4GPA9	4GPA6	4GPH9	4GPJ1	4GPJ2	4GPH8	C
	712 cfm	4GPC2	4GPC3	4GPC4	4GPC1	4GPJ4	4GPJ5	4GPJ6	4GPJ3	D
2½" NPT	911 cfm	20Z887	20Z888	20Z889	20Z886	20Z899	20Z901	20Z902	20Z898	D
3" NPT	1117 cfm	20Z891	20Z892	20Z893	20Z890	20Z904	20Z905	20Z906	20Z903	D
	1350 cfm	20Z895	20Z896	20Z897	20Z894	20Z908	20Z909	20Z910	20Z907	E
Filters without Gauge - Tie Rod						**Element**				**Bracket/Clamp**
¼" NPT	15 cfm	4GNN5	4GNN6	4GNN7	4GNN4	4GPD9	4GPE1	4GPE2	4GPD8	A
⅜" NPT	30 cfm	4GNN9	4GNP1	4GNP2	4GNN8	4GPE4	4GPE5	4GPE6	4GPE3	A
½" NPT	58 cfm	4GNP4	4GNP5	4GNP6	4GNP3	4GPE8	4GPE9	4GPF1	4GPE7	B
¾" NPT	88 cfm	4GNP8	4GNP9	4GNR1	4GNP7	4GPF3	4GPF4	4GPF5	4GPF2	B
	117 cfm	4GNR3	4GNR4	4GNR5	4GNR2	4GPF7	4GPF8	4GPF9	4GPF6	B
1" NPT	147 cfm	4GNR7	4GNR8	4GNR9	4GNR6	4GPG2	4GPG3	4GPG4	4GPG1	B
1¼" NPT	176 cfm	4GNT2	4GNT3	4GNT4	4GNT1	4GPG6	4GPG7	4GPG8	4GPG5	B
	294 cfm	4GNT6	4GNT7	4GNT8	4GNT5	4GPH1	4GPH2	4GPH3	4GPG9	B
1½" NPT	353 cfm	4GNU1	4GNU2	4GNU3	4GNT9	4GPH5	4GPH6	4GPH7	4GPH4	C
2" NPT	500 cfm	4GNU5	4GNU6	4GNU7	4GNU4	4GPH9	4GPJ1	4GPJ2	4GPH8	C
	712 cfm	4GNU9	4GNV1	4GNV2	4GNU8	4GPJ4	4GPJ5	4GPJ6	4GPJ3	D
Filters - Zero Clearance (Compact)						**Element**				**Bracket/Clamp**
¼" NPT	10 cfm	35GK49	35GK50	35GK51	35GK52	35GL94	35GM11	35GM27	35GM43	A
⅜" NPT	10 cfm	35GK53	35GK54	35GK55	35GK56	35GL94	35GM11	35GM27	35GM43	A
½" NPT	10 cfm	35GK57	35GK58	35GK59	35GK60	35GL94	35GM11	35GM27	35GM43	A
Filters - Zero Clearance						**Element**				**Bracket/Clamp**
¼" NPT	15 cfm	35GK61	35GK62	35GK63	35GK64	35GL95	35GM12	35GM28	35GM44	A
	31 cfm	35GK73	35GK74	35GK75	35GK76	35GL96	35GM13	35GM29	35GM45	A
⅜" NPT	15 cfm	35GK65	35GK66	35GK67	35GK68	35GL95	35GM12	35GM28	35GM44	A
	31 cfm	35GK77	35GK78	35GK79	35GK80	35GL96	35GM13	35GM29	35GM45	A
	61 cfm	35GK85	35GK86	35GK87	35GK88	35GL97	35GM14	35GM30	35GM46	B
½" NPT	15 cfm	35GK69	35GK70	35GK71	35GK72	35GL95	35GM12	35GM28	35GM44	A
	31 cfm	35GK81	35GK82	35GK83	35GK84	35GL96	35GM13	35GM29	35GM45	A
	61 cfm	35GK89	35GK90	35GK91	35GK92	35GL97	35GM14	35GM30	35GM46	B
	92 cfm	35GK93	35GK94	35GK95	35GK96	35GL98	35GM15	35GM31	35GM47	B
¾" NPT	92 cfm	35GK97	35GK98	35GK99	35GL01	35GL98	35GM15	35GM31	35GM47	B
	123 cfm	35GL06	35GL07	35GL08	35GL09	35GL99	35GM16	35GM32	35GM48	B
	154 cfm	35GL14	35GL15	35GL16	35GL17	35GM01	35GM17	35GM33	35GM49	B
1" NPT	92 cfm	35GL02	35GL03	35GL04	35GL05	35GL98	35GM15	35GM31	35GM47	B
	123 cfm	35GL10	35GL11	35GL12	35GL13	35GL99	35GM16	35GM32	35GM48	B
	154 cfm	35GL18	35GL19	35GL20	35GL21	35GM01	35GM17	35GM33	35GM49	B
	185 cfm	35GL22	35GL23	35GL24	35GL25	35GM02	35GM18	35GM34	35GM50	B
1¼" NPT	185 cfm	35GL26	35GL27	35GL28	35GL29	35GM02	35GM18	35GM34	35GM50	B
	308 cfm	35GL34	35GL35	35GL36	35GL37	35GM03	35GM19	35GM35	35GM51	B
	370 cfm	35GL42	35GL43	35GL44	35GL45	35GM04	35GM20	35GM36	35GM52	C
	526 cfm	35GL50	35GL51	35GL52	35GL53	35GM05	35GM21	35GM37	35GM53	C
1½" NPT	185 cfm	35GL30	35GL31	35GL32	35GL33	35GM02	35GM18	35GM34	35GM50	B
	308 cfm	35GL38	35GL39	35GL40	35GL41	35GM03	35GM19	35GM35	35GM51	B
	370 cfm	35GL46	35GL47	35GL48	35GL49	35GM04	35GM20	35GM36	35GM52	C
	526 cfm	35GL54	35GL55	35GL56	35GL57	35GM05	35GM21	35GM37	35GM53	C
2" NPT	526 cfm	35GL58	35GL59	35GL60	35GL61	35GM05	35GM21	35GM37	35GM53	C
	747 cfm	35GL62	35GL63	35GL64	35GL65	35GM06	35GM22	35GM38	35GM54	D
	939 cfm	35GL66	35GL67	35GL68	35GL69	35GM07	35GM23	35GM39	35GM55	D
2½" NPT	939 cfm	35GL70	35GL71	35GL72	35GL73	35GM07	35GM23	35GM39	35GM55	D
	1124 cfm	35GL78	35GL79	35GL80	35GL81	35GM08	35GM24	35GM40	35GM56	D
3" NPT	939 cfm	35GL74	35GL75	35GL76	35GL77	35GM07	35GM23	35GM39	35GM55	D
	1124 cfm	35GL82	35GL83	35GL84	35GL85	35GM08	35GM24	35GM40	35GM56	D
	1371 cfm	35GL86	35GL87	35GL88	35GL89	35GM09	35GM25	35GM41	35GM57	E
	1668 cfm	35GL90	35GL91	35GL92	35GL93	35GM10	35GM26	35GM42	35GM58	E


No. 35GM64


No. 35GN32


No. 35GK95


No. 4GPF1


No. 35GM47



3-Stage Sterile Air Filter Assembly
No. 4HEU2

Multistage Sterile Air Filter Assemblies

- Max. pressure: 250 psi
- Max. temp.: 130°F
- 2 ports

Complete 3-stage sterile air systems feature integrated prefilter assembly that includes high-efficiency coalescing filter for removal of liquid and solid contaminants, automatic drain, and a color-coded differential pressure measurement to indicate filter changes. The final-stage sterile air grade filter removes all viable organisms. Individual components are also available separately. Sterile air filters do not require drains.

Pipe Size	Max. Flow	Drain Type	Item No.
3-Stage Sterile Air Filter Assembly - 99.9999+ % Efficiency @ 0.01 Microns			
¼" NPT	36 cfm	Automatic	**4HEU2**
⅜" NPT	36 cfm	Automatic	**4HEU3**
½" NPT	90 cfm	Automatic	**4HEU4**
¾" NPT	101 cfm	Automatic	**4HEU5**
1" NPT	154 cfm	Automatic	**4HEU6**
1½" NPT	223 cfm	Automatic	**4HEU7**

Pipe Size	Max. Flow	Drain Type	Item No.	Pkg. Qty.	REPLACEMENT ELEMENTS Item No.	Pkg. Qty.
Pneumatic Coalescing Prefilter - 99.3% Efficiency @ 0.01 Microns w/ Gauge						
¼" NPT	145 cfm	Automatic	**4HEP9**	1	**4YPN7**	4
⅜" NPT	145 cfm	Automatic	**4HER3**	1	**4YPN7**	4
½" NPT	145 cfm	Automatic	**4HER6**	1	**4YPN7**	4
½" NPT	316 cfm	Automatic	**4HER9**	1	**4YPP1**	4
¾" NPT	596 cfm	Automatic	**4HET3**	1	**4YPP4**	4
1" NPT	877 cfm	Automatic	**4HET6**	1	**4YPP4**	4
1½" NPT	1546 cfm	Automatic	**4HET9**	1	**4YPP7**	4
Pneumatic Coalescing Prefilter - 99.99% Efficiency @ 0.01 Microns						
¼" NPT	58 cfm	Automatic	**4HEP8**	1	**4YPN8**	4
⅜" NPT	58 cfm	Automatic	**4HER2**	1	**4YPN8**	4
½" NPT	58 cfm	Automatic	**4HER5**	1	**4YPN8**	4
½" NPT	145 cfm	Automatic	**4HER8**	1	**4YPP2**	4
¾" NPT	162 cfm	Automatic	**4HET2**	1	**4YPP5**	4
1" NPT	178 cfm	Automatic	**4HET5**	1	**4YPP5**	4
1½" NPT	358 cfm	Automatic	**4HET8**	1	**4YPP8**	4

Pipe Size	Max. Flow	Drain Type	Item No.	REPLACEMENT CARTRIDGES Item No.	Pkg. Qty.
Pneumatic Sterile Air Filter - 99.9999+ % Efficiency @ 0.01 Microns					
⅜" NPT	35 cfm	Automatic	**4HER4**	**4YPN9**	3
½" NPT	35 cfm	Automatic	**4HER7**	**4YPN9**	3
½" NPT	90 cfm	Automatic	**4HET1**	**4YPP3**	3
¾" NPT	122 cfm	Automatic	**4HET4**	**4YPP6**	3
1" NPT	154 cfm	Automatic	**4HET7**	**4YPP6**	3
1½" NPT	223 cfm	Automatic	**4HEU1**	**4YPP9**	3

Description	For Use With	Item No.
Replacement Auto Drain		
Auto Drain	4HEP3 to 4HEP9, 4HER1 to 4HER9, 4HET1 to 4HET9, 4HEU1 to 4HEU7	**4YPR1**

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Pneumatic Air Filters and Replacement Elements

Ingersoll Rand

- Max. pressure: 250 psi
- Max. temp.: 176°F
- ½" NPT drain port
- Auto float drain type

Filter media repels water and oils to provide extended filter life and minimized pressure drop across the filter element. Include filter element service indicator.

Pipe Size	Max. Flow	Overall Height	Overall Width	FILTERS Item No.	ELEMENTS Item No.
General Purpose Filters, 0.1 Micron					
½" NPT	22 cfm	8.86"	2.99"	**32NA16**	**32NA21**
¾" NPT	45 cfm	11.03"	3.86"	**32NA17**	**32NA22**
¾" NPT	65 cfm	11.03"	3.86"	**32NA18**	**32NA23**
1" NPT	135 cfm	12.56"	5.08"	**32NA19**	**32NA24**
1½" NPT	235 cfm	16.11"	5.08"	**32NA20**	**32NA25**
High-Efficiency Filters, 0.01 Micron					
½" NPT	22 cfm	8.86"	2.99"	**32NA06**	**32NA11**
¾" NPT	45 cfm	11.03"	3.86"	**32NA07**	**32NA12**
¾" NPT	65 cfm	11.03"	3.86"	**32NA08**	**32NA13**
1" NPT	135 cfm	12.56"	5.08"	**32NA09**	**32NA14**
1½" NPT	235 cfm	16.11"	5.08"	**32NA10**	**32NA15**

For Use On	ELEMENTS Item No.	Item No.
Legacy Filters		
3EME7	**3EMF8**	**3EMF8**
3EME8	**3EMF9**	**3EMF9**
3EME9	**32NA21**	**3EMG1**
3EMF1	**32NA22**	**3EMG2**
3EMF2	**32NA23**	**3EMG3**
3EMF3	**32NA24**	**3EMG4**
3EMF4	**32NA25**	**3EMG5**
3EMF5	**32NA11**	**3EMG6**
3EMF6	**32NA12**	**3EMG7**
3EMF7	**32NA13**	**3EMG8**



No. 32NA16

Compressed Air Filter Replacement Elements

Replacement filter elements retrofit most housings and effectively remove oil, water, and particulate from any compressed air system.

Additional filter elements are available on Grainger.com®.



Microfiberglass

Cross Reference	Mfr. Model	Item No.
Balston Replacement Filters		
Coalescing		
Balston 100-09-BX	RB10009S	**22F256**
Balston 100-09-CX	RB10009T	**22F257**
Balston 100-09-DX	RB10009U	**22F258**
Balston 100-12-BX	RB10012S	**22F259**
Balston 100-12-CX	RB10012T	**22F260**
Balston 100-12-DX	RB10012U	**22F261**
Balston 100-18-BX	RB10018S	**22F262**
Balston 100-18-CX	RB10018T	**22F263**
Balston 100-18-DX	RB10018U	**22F264**
Balston 100-25-BX	RB10025S	**22F265**
Balston 100-25-CX	RB10025T	**22F266**
Balston 100-25-DX	RB10025U	**22F267**
Balston 050-05-BQ	RB0505SI	**22F296**
Balston 050-05-CQ	RB0505TI	**22F297**
Balston 050-05-DQ	RB0505UI	**22F298**
Balston 050-11-BQ	RB0511SI	**22F299**
Balston 050-11-CQ	RB0511TI	**22F301**
Balston 050-11-DQ	RB0511UI	**22F302**
Balston 100-12-BQ	RB1012SI	**22F303**
Balston 100-12-CQ	RB1012TI	**22F304**
Binks Replacement Filters		
Coalescing		
Binks 86-617	RB86617	**22F328**
Binks 86-952	RB86952	**22F329**
Binks 86-972	RB86972	**22F330**
Binks 86-982	RB86982	**22F331**
Particulate		
Binks 86-1006	RB861006	**22F325**
Binks 86-1017	RB861017	**22F326**
Binks 86-1018	RB861018	**22F327**

Cross Reference	Mfr. Model	Item No.
General Pneumatics Replacement Filters		
Coalescing		
General Pneumatics GPE 95-60-PF	RGPGPE9560S	**22F346**
General Pneumatics GPE-95-150-PF	RGPGPE95150S	**22F347**
General Pneumatics GPE 95-275-PF	RGPGPE95275S	**22F348**
General Pneumatics GPE 95-400-PF	RGPGPE95400S	**22F349**
General Pneumatics GPE 95-600-PF	RGPGPE95600S	**22F350**
Hankison Replacement Filters		
Microfiberglass		
Hankinson 0713-2	6CM10-025	**4GEL6**
Hankinson 0713-3	6CM10-050	**4GEL7**
Hankinson 0713-4	6CM15-060	**4GEL8**
Hankinson 0713-5	6CM15-095	**4GEL9**
Hankinson 0713-6	6CM15-185	**4GEM1**
Hankinson E5-20	6CH10-060	**4GER8**
Hankison E5-24	6CH16-066	**4GER9**
Hankinson E5-28	6CH16-108	**4GET1**
Hankinson E5-32	6CH19-131	**4GET2**
Hankinson E5-36	6CH19-176	**4GET3**
Headline Replacement Filters		
Microfiberglass		
Headline 25-64-50C	6H10-025	**4GEX7**
Headline 25-64-70C	10H10-025	**4GEX9**
Headline 38-152-50C	6H15-060	**4GEY2**
Henderson Replacement Filters		
Microfiberglass		
Henderson 8D20	6CN10-028	**4GEZ7**
Henderson 8D28	6CN10-038	**4GEZ8**
Henderson 16D33	6CU19-050	**4GEZ9**
Henderson 16D100	6CU19-130	**4GFA2**
Henderson 16D150	6CU19-187	**4GFA3**

Cross Reference	Mfr. Model	Item No.
Pall/PPC Replacement Filters		
Cellulose		
Pall GPC-175AF	3PP19-075	**4CUU5**
Pall MDC-1202EC, PCC-1202EC	3PP26-265	**4CUU6**
Pall PCC-350AF	3PP30-143	**4CUU8**
Pall PCS-350AF	3PPS30-143	**4CUU9**
Pall PCC-600AF	3PP30-140	**4CUV1**
Pall PCC-700AF, PCC-1200AF	3PP30-295	**4CUV2**
Pall PCS-700AF, PCS-1200AF	3PPS30-295	**4CUV3**
Pall MDC-1001AF, PCC-1001AF, PCS-1001AF	3PP19-098	**4CUV4**
Pall MDC-1002AF, PCC-1002AF, PCS-1002AF	3PP19-198	**4CUV5**
Pall PCC-1003AF	3PP19-298	**4CUV6**
Pall MDC-1201AF, PCC-1201AF	3PP26-132	**4CUV7**
Zeks Replacement Filters		
Adsorbing Grade		
Zeks E1000A	RZA1000	**22F374**
Coalescing		
Zeks H600	RZH600	**22F367**
Zeks FF0250	RZFF0250	**22F368**
Zeks L140	RZL140	**22F369**
Zeks L400	RZL400	**22F370**
Zeks E1000G	RZG1000	**22F372**
Zeks E1000H	RZH1000	**22F373**
Particulate		
Zeks P275	RZP275	**22F363**
Zeks P330	RZP330	**22F364**
Zeks P670	RZP670	**22F365**
Zeks E1000P	RZP1000	**22F366**
Donaldson Replacement Filters		
Cellulose		
Donaldson V-PE 3/1	3PJ10-030	**4CUY2**
Donaldson V-PE 3/1,5	3PJ13-030	**4CUY3**
Donaldson V-PE 4/1,5	3PJ13-044	**4CUY4**
Donaldson V-PE 4/2,5	3PJ15-040	**4CUY5**
Donaldson PE 05/25, V-PE 5/2,5	3PJN15-050	**4CUY6**
Microfiberglass		
Donaldson MF 5/25, MF 5/2,5	6IJN15-050	**4CVJ6**
—	6IJN15-070	**4CVJ7**
Donaldson MF 07/30	6IJN25-070	**4CVJ8**
Donaldson MF 10/30	6IJN25-100	**4CVJ9**
Donaldson MF 15/30	6IGN25-150	**4CVK1**
Donaldson MF 20/30	6IGN25-200	**4CVK2**

SPEEDAIRE

Oil Removal (Coalescing) Filters

- Filters to 0.01 microns
- Service life indicator is standard (except miniatures)
- Max. pressure: 150 psi (polycarbonate bowl); 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl); 150°F (metal bowl)
- Modular connector allows easy removal and replacement

For maximum life, use in conjunction with a general purpose air line filter equipped with a 5-micron element.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	POLY Item No.	POLY WITH GUARD Item No.	METAL WITH SIGHT GLASS Item No.
Miniature	⅛" NPT	6 cfm	4.25"	1.63"	**4ZL16**	—	—
	¼" NPT	6.5 cfm	4.25"	1.63"	**4ZL17**	—	—
Compact	¼" NPT	10.5 cfm	7.93"	1.97"	—	**4ZL24**	**4ZL23**
	⅜" NPT	10.5 cfm	7.93"	1.97"	—	**4ZL26**	**4ZL25**
Intermediate	¼" NPT	20 cfm	8.51"	2.68"	—	**4ZL32**	**4ZL31**
	⅜" NPT	20 cfm	8.51"	2.68"	—	**4ZL34**	**4ZL33**
	½" NPT	20 cfm	8.51"	2.68"	—	**4ZL36**	**4ZL35**
Standard	⅜" NPT	20 cfm	9.31"	3.15"	—	**4ZL44**	**4ZL43**
	½" NPT	35 cfm	9.31"	3.15"	—	**4ZL46**	**4ZL45**
Standard (High Flow)	½" NPT	60 cfm	11.40"	3.15"	—	—	**4ZL53**
	¾" NPT	60 cfm	11.40"	3.15"	—	**4ZL55**	**4ZL54**
Heavy-Duty	¾" NPT	90 cfm	13.24"	4.75"	—	—	**4ZL18**
	1" NPT	125 cfm	13.24"	4.75"	—	—	**4ZL19**
	1½" NPT	250 cfm	18.86"	8.22"	—	—	**4ZL20**
	2" NPT	300 cfm	18.86"	8.22"	—	—	**4ZL21**
Heavy-Duty with Auto-Drain	2" NPT	600 cfm	26.71"	8.22"	—	—	**4ZL22**

**** cfm measured at 100 psig with a saturated element (3 to 5 psig drop).***

For Use On	Microns	Item No.
Replacement Oil Removal Coalescing Filter Elements		
Miniature	0.01	**4ZK21**
Compact	0.01	**4ZK70**
Intermediate	0.01	**4ZK56**
Standard	0.01	**4ZK46**
Standard (High Flow)	0.01	**4ZK47**
Heavy-Duty (¾" to 1")	0.01	**4ZK62**
Heavy-Duty (1½" to 2")	0.01	**4ZK15**
General Purpose and Oil Removal Filter Mounting Brackets		
Miniature	—	**4ZK71**
Compact	—	**4ZK29**
Intermediate	—	**4ZK53**
Standard	—	**4ZK42**
Heavy-Duty	—	**4ZK72**
Automatic Filter Drains		
Miniature	—	**4ZK17**
Compact	—	**4ZK18**
Intermediate	—	**4ZK19**
Standard and Heavy-Duty	—	**4ZK14**



No. 4ZL43



No. 4ZL30

General Purpose Filters

SPEEDAIRE

- Filter to 5 microns
- Max. pressure: 150 psi (polycarbonate bowl), 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl), 175°F (metal bowl)
- Modular connector allows easy removal and swap out

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

For Use On	Microns	For Use with Stock Number	Item No.
Replacement General-Purpose Filter Elements			
Miniature	5 (standard)	4ZL07, 4ZL08	**4ZK65**
Compact	5 (standard)	4ZL27-4ZL30	**4ZK69**
	40 (optional)	4ZK82-4ZK85	**4ZK68**
Intermediate	5 (standard)	4ZL37-4ZL42, 4ZK86-4ZK91	**4ZK54**
Intermediate	40 (optional)	4ZK86-4ZK93	**4ZK55**
Standard	5 (standard)	4ZL47-4ZL52, 4ZK94-4ZL02	**4ZK44**
Standard	40 (optional)	4ZL47-4ZL52, 4ZK94-4ZL02	**4ZK45**
Heavy Duty	5 (standard)	4ZL09-4ZL11, 4ZK78, 4ZK79	**4ZK60**
Heavy Duty	40 (optional)	4ZL09, 4ZL10, 4ZL11	**4ZK61**
	5 (standard)	4ZL12, 4ZL14	**4ZK66**
	40 (optional)	4ZL12, 4ZL14	**4ZK67**

For Use With	Includes	Item No.
Air Filter Bowl Replacement Kits		
Speedaire Miniature Filters	Bowl and O-Ring	**1AKG5**
Speedaire Standard Filters	Bowl, Bowl Guard, and O-Ring	**1AKG7**

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	Item No.
Polycarbonate					
Miniature	⅛" NPT	20 cfm	4.17"	1.63"	**4ZL07**
	¼" NPT	26 cfm	4.17"	1.63"	**4ZL08**
Polycarbonate with Guard					
Compact	¼" NPT	55 cfm	6.58"	1.95"	**4ZL28**
	⅜" NPT	55 cfm	6.58"	1.95"	**4ZL30**
Intermediate	¼" NPT	55 cfm	7.15"	2.68"	**4ZL38**
	⅜" NPT	65 cfm	7.15"	2.68"	**4ZL40**
	½" NPT	70 cfm	7.15"	2.68"	**4ZL42**
Standard	⅜" NPT	112 cfm	7.95"	3.15"	**4ZL48**
	½" NPT	140 cfm	7.95"	3.15"	**4ZL50**
	¾" NPT	140 cfm	7.95"	3.15"	**4ZL52**
Metal with Sight Gauge					
Compact	¼" NPT	55 cfm	6.58"	1.95"	**4ZL27**
	⅜" NPT	55 cfm	6.58"	1.95"	**4ZL29**
Intermediate	¼" NPT	55 cfm	7.15"	2.68"	**4ZL37**
	⅜" NPT	65 cfm	7.15"	2.68"	**4ZL39**
	½" NPT	70 cfm	7.15"	2.68"	**4ZL41**
Standard	⅜" NPT	112 cfm	7.95"	3.15"	**4ZL47**
	½" NPT	140 cfm	7.95"	3.15"	**4ZL49**
	¾" NPT	140 cfm	7.95"	3.15"	**4ZL51**
Heavy-Duty	¾" NPT	325 cfm	11.88"	4.75"	**4ZL09**
	1" NPT	425 cfm	11.88"	4.75"	**4ZL10**
	1½" NPT	425 cfm	11.88"	4.75"	**4ZL11**
	1½" NPT	1400 cfm	16.96"	8.22"	**4ZL12**
Heavy-Duty with Automatic Drain	2" NPT	1400 cfm	16.96"	8.22"	**4ZL14**

**** cfm based on 90 psig inlet and 5 psig pressure drop.***


No. 4ZM08


No. 4ZK51

SPEEDAIRE

General Purpose Regulators

- Max. temp. 150°F on miniature and compact units, 175°F on intermediate, standard, and heavy-duty regulators
- Modular connector allows easy removal and swap out

Feature 2 full-flow gauge ports. T-handle adjustment is optional. Manifold regulators provide multiple pressures from a common inlet.

WARNING: Do not connect regulator to bottled gas.

Description	Pipe Size	Gauge Port	Max. Flow*	Max. Inlet Pressure	Adjustment Range	Overall Height	Overall Width	Item No.
Miniature (compressor)	¼"	⅛" NPT	12 cfm	300 psi	5 to 150 psi	2.25"	1.65"	**4ZM13**
Miniature	⅛"	⅛" NPT	14 cfm	300 psi	5 to 125 psi	2.91"	1.63"	**4ZM07**
	¼"	⅛" NPT	15 cfm	300 psi	5 to 125 psi	2.91"	1.63"	**4ZM08**
Miniature (brass body)	⅛"	⅛" NPT	15 cfm	400 psi	5 to 125 psi	2.86"	1.48"	**4ZM05**
	¼"	⅛" NPT	15 cfm	400 psi	5 to 125 psi	2.86"	1.48"	**4ZM06**
Compact	¼"	⅛" NPT	80 cfm	300 psi	5 to 150 psi	4.19"	1.97"	**4ZM14**
	⅜"	⅛" NPT	80 cfm	300 psi	5 to 150 psi	4.19"	1.97"	**4ZM15**
	⅜"	⅛" NPT	70 cfm	300 psi	Non-Adjustable, 30 psi	4.07"	1.97"	**1WH33**
Compact (manifold)	¼"	⅛" NPT	90 cfm	300 psi	5 to 150 psi	4.19"	1.97"	**4ZM16**
	⅜"	⅛" NPT	140 cfm	300 psi	5 to 150 psi	4.19"	1.97"	**4ZM17**
Intermediate	¼"	¼" NPT	144 cfm	300 psi	5 to 150 psi	5.34"	2.68"	**4ZM18**
	⅜"	¼" NPT	208 cfm	300 psi	5 to 150 psi	5.34"	2.68"	**4ZM19**
	½"	¼" NPT	220 cfm	300 psi	5 to 150 psi	5.34"	2.68"	**4ZM20**
Standard	⅜"	¼" NPT	220 cfm	300 psi	5 to 150 psi	6.67"	3.15"	**4ZM21**
	½"	¼" NPT	220 cfm	300 psi	5 to 150 psi	6.67"	3.15"	**4ZM22**
	¾"	¼" NPT	220 cfm	300 psi	5 to 150 psi	6.67"	3.15"	**4ZM23**
Heavy-Duty	¾"	¼" NPT	450 cfm	300 psi	5 to 125 psi	7.09"	4.25"	**4ZM09**
	1"	¼" NPT	450 cfm	300 psi	5 to 125 psi	7.09"	4.25"	**4ZM10**
	1½"	¼" NPT	450 cfm	300 psi	5 to 125 psi	7.09"	4.25"	**4ZM11**
	2"	¼" NPT	2000 cfm	450 psi	5 to 150 psi	9.71"	5.98"	**4ZM12**

**** cfm flow measured with 150 psig inlet adjusted to set pressure of 90 psig (while increasing flow) and a 15 psig drop.***

For Use On	Item No.
Panel Mount Nuts	
Miniature Regulator and fitler/regulator	**4ZK13**
Compact Regulator	**4ZK32**
Intermediate Regulator	**4ZK58**
Standard Regulator and fitler/regulatorRegulator	**4ZK49**
Mounting Brackets	
Miniature Regulator and fitler/regulator	**4ZK12**
Compact Regulator	**4ZK73**
Intermediate Regulator	**4ZK57**
Standard Regulator and fitler/regulator	**4ZK50**
Heavy Duty Regulator	**4ZK63**
T-Handle Conversion Kits	
Compact Regulator	**4ZK22**
Intermediate Regulator	**4ZK51**
Standard Regulator	**4ZK33**
Heavy Duty Regulator	**4ZK64**
Tamper-Resistant Covers	
Compact Regulator	**5ZL32**
Intermediate Regulator	**5ZL33**
Standard Regulator	**5ZL34**

Connec. Size	Dial Size	Item No.
Pressure Gauges		
⅛" NPT	1½"	**4FLZ8**
¼" NPT	2"	**4FMC7**


No. 4ZK76


No. 4ZK84

SPEEDAIRE

General Purpose All-in-One Filter/Regulator

- 40-micron filter elements (Mini are 0.01 and Miniature are 5 micron)
- Polycarbonate bowl: 150 max. psi; metal bowl: 250 max. psi
- Modular connector allows easy removal and swap out

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using fire-resistant lubricants.

WARNING: Do not connect to bottled gas.

Description	Pipe Size	Max. Flow*	Max. Temp.	Adjustment Range	Overall Height	Overall Width	Item No.
Polycarbonate Bowls with Guard							
Compact	¼" NPT	80 cfm	125°F	5 to 150 psi	8.72"	1.97"	**4ZK83**
	⅜" NPT	80 cfm	125°F	5 to 150 psi	8.72"	1.97"	**4ZK85**
Intermediate	¼" NPT	80 cfm	125°F	5 to 150 psi	9.95"	2.68"	**4ZK87**
	⅜" NPT	120 cfm	125°F	5 to 150 psi	9.95"	2.68"	**4ZK89**
	½" NPT	120 cfm	125°F	5 to 150 psi	9.95"	2.68"	**4ZK91**
Intermediate w/Gauge and Bracket	¼" NPT	80 cfm	125°F	5 to 150 psi	9.95"	2.68"	**4ZK92**
	⅜" NPT	120 cfm	125°F	5 to 150 psi	9.95"	2.68"	**4ZK93**
Polycarbonate Bowls w/Nonrising Knob Bowl Adjust							
Miniature	⅛" NPT	13 cfm	125°F	5 to 125 psi	6.57"	1.63"	**4ZK74**
	¼" NPT	14 cfm	125°F	5 to 125 psi	6.57"	1.63"	**4ZK75**
Miniature w/Brass Body	¼" NPT	12 cfm	125°F	5 to 125 psi	6.57"	1.48"	**4ZK77**
Miniature w/Gauge and Bracket	¼" NPT	14 cfm	125°F	5 to 125 psi	6.57"	1.63"	**4ZK76**
Polycarbonate Bowls							
Mini Oil Removal (Coalescing)	⅛" NPT	4 cfm	125°F	5 to 100 psi	6.57"	1.63"	**4ZK80**
	¼" NPT	4 cfm	125°F	5 to 100 psi	6.57"	1.63"	**4ZK81**
Standard	⅜" NPT	163 cfm	125°F	5 to 150 psi	11.93"	3.15"	**4ZK95**
	½" NPT	212 cfm	125°F	5 to 150 psi	11.93"	3.15"	**4ZK97**
	¾" NPT	212 cfm	125°F	5 to 150 psi	11.93"	3.15"	**4ZK99**
Standard w/Gauge and Bracket	½" NPT	212 cfm	125°F	5 to 150 psi	11.93"	3.15"	**4ZL01**
	¾" NPT	212 cfm	125°F	5 to 150 psi	11.93"	3.15"	**4ZL02**
Metal Bowls with Sight Glass w/Nonrising Knob Bowl Adjust							
Heavy-Duty (Yoke-Mount)	¾" NPT	509 cfm	175°F	5 to 125 psi	15.04"	7.48"	**4ZK78**
	1" NPT	509 cfm	175°F	5 to 125 psi	15.04"	7.48"	**4ZK79**
Metal Bowls with Sight Glass							
Compact	¼" NPT	80 cfm	150°F	5 to 150 psi	8.72"	1.97"	**4ZK82**
	⅜" NPT	80 cfm	150°F	5 to 150 psi	8.72"	1.97"	**4ZK84**
Intermediate	¼" NPT	80 cfm	175°F	5 to 150 psi	9.95"	2.68"	**4ZK86**
	⅜" NPT	120 cfm	175°F	5 to 150 psi	9.95"	2.68"	**4ZK88**
	½" NPT	120 cfm	175°F	5 to 150 psi	9.95"	2.68"	**4ZK90**
Metal Bowls							
Standard	⅜" NPT	163 cfm	175°F	5 to 150 psi	11.93"	3.15"	**4ZK94**
	½" NPT	140 cfm	175°F	5 to 150 psi	11.93"	3.15"	**4ZK96**
	¾" NPT	212 cfm	175°F	5 to 150 psi	11.93"	3.15"	**4ZK98**

**** cfm flow measured with 150 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop.***

In-Line Lubricators

- Polycarbonate bowl: 150 max. psi; 125°F max. temp.
- Metal bowl: 250 max. psi; 175°F max. temp.
- Modular connector allows easy removal and swap out

Lubricators maintain a constant oil-to-air density over a wide range of flow. An integral flow sensor provides proportional control.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

SPEEDAIRE

Micromist—Provides lubrication for multiple pneumatic tools/devices. Comes equipped with a red 360° sight/feed dome.
- Up to 50-ft. pipe runs

Mist—Ideal lubrication for a single tool/device. Includes a green 360° sight/feed dome.
- 15- to 20-ft. pipe runs

For Use With	Includes	Item No.
Polycarbonate Air Lubricator Bowl Replacement Kits		
Speedaire Miniature Lubricators	Bowl and O-Ring	1AKJ2
Speedaire Compact Lubricators	Bowl, Bowl Guard, and O-Ring	1AKG8
Speedaire Standard Lubricators	Bowl, Bowl Guard, and O-Ring	1AKJ1

Bowl Material	Pipe Size	Max. Flow*	H	W	MICROMIST Item No.	MIST Item No.
Compact Series						
Polycarbonate with Zinc Guard	¼" NPT	50 cfm	7.46"	1.98	4ZL69	4ZL65
	⅜" NPT	50 cfm	7.46"	1.98	4ZL71	4ZL67
Zinc	¼" NPT	50 cfm	7.46"	1.98	4ZL68	4ZL64
	⅜" NPT	50 cfm	7.46"	1.98	4ZL70	4ZL66
Heavy Duty Series						
Metal with Sight Glass	¾" NPT	160 cfm	12.43"	4.5	4ZL58	4ZL59
	1" NPT	275 cfm	12.43"	4.5	4ZL60	4ZL61
	1½" NPT	275 cfm	12.43"	4.5	4ZL62	4ZL63
Intermediate Series						
Aluminum	¼" NPT	60 cfm	8.15"	2.68	4ZL78	4ZL72
	⅜" NPT	75 cfm	8.15"	2.68	4ZL80	4ZL74
	½" NPT	95 cfm	8.15"	2.68	4ZL82	4ZL76
Polycarbonate with Steel Guard	¼" NPT	60 cfm	8.15"	2.68	4ZL79	4ZL73
	⅜" NPT	75 cfm	8.15"	2.68	4ZL81	4ZL75
	½" NPT	95 cfm	8.15"	2.68	4ZL83	4ZL77
Miniature Series						
Polycarbonate	⅛" NPT	10 cfm	5.50"	1.63	4ZL56	—
	¼" NPT	14 cfm	5.50"	1.63	4ZL57	—
Standard Series						
Aluminum	⅜" NPT	114 cfm	8.81''	3.15	4ZL90	4ZL84
	½" NPT	154 cfm	8.81''	3.15	4ZL92	4ZL86
	¾" NPT	142 cfm	8.81''	3.15	4ZL94	4ZL88
Polycarbonate with Steel Guard	⅜" NPT	114 cfm	8.81''	3.15	4ZL91	4ZL85
	½" NPT	154 cfm	8.81''	3.15	4ZL93	4ZL87
	¾" NPT	142 cfm	8.81''	3.15	4ZL95	4ZL89

** cfm based on 90 psig inlet and 5 psig pressure drop.*



No. 4ZL92

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	POLYCARBONATE Max. Temp.	POLYCARBONATE Item No.	POLYCARBONATE WITH GUARD Max. Temp.	POLYCARBONATE WITH GUARD Item No.	METAL WITH SIGHT GLASS Max. Temp.	METAL WITH SIGHT GLASS Item No.
2-Piece Filter/Regulator MicroMist Lubricator*										
Miniature	¼" NPT	10 cfm	6.54"	3.55"	125°F	4ZM04	—	—	—	—
Compact	¼" NPT	51 cfm	8.72"	4.22"	—	—	125°F	7D683	150°F	7D684
	⅜" NPT	51 cfm	8.72"	4.22"	—	—	125°F	7D685	150°F	7D686
Intermediate	¼" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D699	175°F	7D700
	⅜" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D701	175°F	7D702
	½" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D703	175°F	7D704
Standard	⅜" NPT	114 cfm	11.93"	6.84"	—	—	125°F	7D723	175°F	7D724
	½" NPT	192 cfm	11.93"	6.84"	—	—	125°F	7D725	175°F	7D726
	¾" NPT	186 cfm	11.93"	6.84"	—	—	125°F	7D727	175°F	7D728
2-Piece Filter Regulator Mist Lubricator*										
Compact	¼" NPT	51 cfm	8.72"	4.22"	—	—	125°F	7D687	150°F	7D688
	⅜" NPT	51 cfm	8.72"	4.22"	—	—	125°F	7D689	150°F	7D690
Intermediate	¼" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D705	175°F	7D706
	⅜" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D707	175°F	7D708
	½" NPT	60 cfm	9.95"	5.91"	—	—	125°F	7D709	175°F	7D710
Standard	⅜" NPT	118 cfm	11.93"	6.84"	—	—	125°F	7D729	175°F	7D730
	½" NPT	192 cfm	11.93"	6.84"	—	—	125°F	7D731	175°F	7D732
	¾" NPT	186 cfm	11.93"	6.84"	—	—	125°F	7D733	175°F	7D734
3-Piece Filter and Regulator and MicroMist Lubricator†										
Compact	¼" NPT	51 cfm	7.46"	6.46"	—	—	150°F	7D691	150°F	7D692
	⅜" NPT	51 cfm	7.46"	6.46"	—	—	150°F	7D693	150°F	7D694
Intermediate	¼" NPT	56 cfm	8.02"	9.13"	—	—	175°F	7D711	175°F	7D712
	⅜" NPT	60 cfm	8.02"	9.13"	—	—	150°F	7D713	150°F	7D714
	½" NPT	60 cfm	8.02"	9.13"	—	—	175°F	7D715	175°F	7D716
Standard	⅜" NPT	114 cfm	8.81"	10.52"	—	—	175°F	7D735	175°F	7D736
	½" NPT	154 cfm	8.81"	10.52"	—	—	175°F	7D737	175°F	7D738
	¾" NPT	142 cfm	8.81"	10.52"	—	—	175°F	7D739	175°F	7D740
Heavy-Duty	¾" NPT	160 cfm	12.45"	14.75"	—	—	—	—	175°F	4ZL99
	1" NPT	275 cfm	12.45"	14.75"	—	—	—	—	175°F	4ZM01
3-Piece Filter and Regulator and Mist Lubricator†										
Compact	¼" NPT	51 cfm	7.46"	6.46"	—	—	150°F	7D695	150°F	7D696
	⅜" NPT	51 cfm	7.46"	6.46"	—	—	150°F	7D697	150°F	7D698
Intermediate	¼" NPT	56 cfm	8.02"	9.13"	—	—	125°F	7D717	125°F	7D718
	⅜" NPT	60 cfm	8.02"	9.13"	—	—	175°F	7D719	175°F	7D720
	½" NPT	60 cfm	8.02"	9.13"	—	—	175°F	7D721	175°F	7D722
Standard	⅜" NPT	118 cfm	8.81"	10.52"	—	—	175°F	7D741	175°F	7D742
	½" NPT	192 cfm	8.81"	10.52"	—	—	175°F	7D743	175°F	7D744
	¾" NPT	186 cfm	8.81"	10.52"	—	—	175°F	7D745	—	—
	¾" NPT	100 cfm	8.81"	10.52"	—	—	—	—	175°F	7D746
Heavy-Duty	¾" NPT	160 cfm	12.45"	14.75"	—	—	—	—	175°F	4ZM02
	1" NPT	275 cfm	12.45"	14.75"	—	—	—	—	175°F	4ZM03

** Regulators and filter/regulators: cfm flow measures with 90 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 90 psig inlet and 5 psig pressure drop. † General purpose filters: cfm based on 100 psig inlet and 5 psig pressure drop. Regulators: cfm flow measures with 100 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 100 psig inlet and 5 psig pressure drop.*


No. 4ZM04


No. 7D736

SPEEDAIRE

2- and 3-Pc. Combination Units

- Modular connector allows easy removal and swap out

2-pc. units combine filter/regulator with MicroMist or Mist lubricator. 3-pc. units combine filter, regulator, and MicroMist or Mist lubricators. Include Speed Clamps™, mounting brackets, and pressure gauge. Nos. 4ZM01 to 4ZM04 and 4ZL99 do not include mounting bracket or gauge. Some assembly required. For replacement filter elements, see page 2594.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

SPEEDAIRE

Modular Connectors

- Allow easy removal and replacement of Speedaire® components

Use Speed Clamps™ instead of pipe nipples to interconnect components.

Modular Pneumatic Lockout Valves—3-way function valves can be padlocked in the closed (vented) position only. Installed in the pressure inlet of pneumatic devices.

Porting Blocks—Provide 3 auxiliary ¼" NPT outlets to pipe high-pressure or nonlubricated air.

Manifold Blocks—Permit 90° attachment of additional system components such as filters, regulators, or pressure switches.



Key	For Use With	NPT (in.)	Item No.
Modular Pneumatic Lockout Valves			
A	Speedaire Compact	¼	4ZM24
A	Speedaire Compact	⅜	4ZM25
A	Speedaire Intermediate and Standard	¼	4ZM26
A	Speedaire Intermediate and Standard	⅜	4ZM27
A	Speedaire Intermediate and Standard	½	4ZM28
A	Speedaire Intermediate and Standard	¾	4ZM29

Key	For Use With	NPT (in.)	Item No.
Speed Clamps™ w/Mounting Bracket			
B	Compact	—	4ZK25
B	Intermediate and Standard	—	4ZK36
C	Compact	—	4ZK24
C	Intermediate and Standard	—	4ZK35
Mounting Brackets			
C	Intermediate and Standard (used with No. 4ZK35)	—	4ZK34
Speed Mount Pipe Adapters			
D	Compact	¼	4ZK26
D	Intermediate and Standard	¼	4ZK37
D	Intermediate and Standard	⅜	4ZK38
D	Intermediate and Standard	½	4ZK39
D	Intermediate and Standard	¾	4ZK40
Porting Blocks (3 NPT Ports)			
—	Compact	¼	4ZK28
—	Intermediate and Standard	¼	4ZK41
Manifold Blocks (4 NPT Ports)			
—	Compact	⅜	4ZK30
—	Intermediate and Standard	¾	4ZK43


No. 6B281


No. 2KEG8

Description	Pipe Size	Max. Flow*	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
Metal								
Jumbo	1½" NPT	1050 cfm	150 psi	150°F	19.07"	7.80"	F35-0B-000	**6B279**
	2" NPT	1180 cfm	150 psi	150°F	19.07"	7.80"	F35-0C-000	**6B278**
Metal with Sight Gauge								
Jumbo	¾" NPT	260 cfm	200 psi	150°F	9.80"	4.80"	F30-06-G00	**6D788**
	1" NPT	280 cfm	200 psi	150°F	9.80"	4.80"	F30-08-G00	**6D789**
Polycarbonate with Guard								
Jumbo	¾" NPT	260 cfm	150 psi	125°F	9.80"	4.80"	F30-06-000	**6B281**
	1" NPT	280 cfm	150 psi	125°F	9.80"	4.80"	F30-08-000	**6B280**
Stainless Steel								
Miniature	¼" NPT	23 cfm	300 psi	180°F	4.00"	1.57"	SF1-02-SYV0	**2KEG8**
Standard	½" NPT	70 cfm	300 psi	180°F	5.56"	2.38"	SF2-04-SYV0	**2KEG9**

**** cfm rating based on 100 psig inlet and 5 psig pressure drop.***

For Use With	Includes	Item No.
Air Filter Replacement Kits		
Wilkerson Miniature Filters	Bowl, O-Ring, Drain, Bowl Guard	**1AFE8**
Wilkerson Subcompact Filters	Bowl, O-Ring, Drain	**1AFE9**
Wilkerson Compact Filters	Bowl, O-Ring, Drain, Bowl Guard	**1AFG1**
Wilkerson Standard Filters	Bowl, O-Ring, Drain, Bowl Guard	**1AFG2**

For Use with Stock No.	For Use On	Item No.
Replacement Filter Elements		
6B288, 6B299, 6B306, 6B315, 6D764, 6D771, 6D781, 6B306, 3GD30	Miniature	**6B225**
2KEG8	Miniature	**2KEJ3**
6B285 to 6B287, 6B296 to 6B298, 6B303 to 6B305, 6B312 to 6B314, 6D756 to 6D758, 6D765 to 6D767, 6D772 to 6D774, 6D782 to 6D784	Compact	**6B233**
6B282 to 6B284, 6B293 to 6B295, 6B300 to 6B302, 6B309 to 6B311, 6D759 to 6D761, 6D768 to 6D770, 6D775 to 6D777, 6D785 to 6D787	Standard	**6B230**
2KEG9	Standard	**2KEJ4**
6B280, 6B281, 6D788, 6D789	Jumbo 30 and 35	**6B252**
6B278, 6B279	Jumbo 30 and 35	**6B249**

WILKERSON®

General Purpose Filters

- High-efficiency 5-micron filtration

Rugged, lightweight construction with high-flow capability and excellent water removal efficiency. Have a positive bayonet bowl latch and barbed manual drain connection with pipe-away.

Note: Models with a polycarbonate bowl should not be located in areas subject to direct sunlight, direct impact, or temperature outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Should not be used where strong acids or bases are present or in salt-laden atmospheres.



No. 5GC16


No. 2KEH5

WILKERSON®
GA GRAINGER APPROVED

General Purpose Regulators

- Accuracy: ±1 psi

2-gauge ports can be used as additional regulated outlet ports. Can be serviced without removal from air line. Dial regulators feature a transparent, pressure-calibrated, nonrising adjustment dial for quick adjustment of secondary pressure, ±1 psi. Can be mounted in any position so dial face is always visible.

WARNING: Do not connect regulator to bottled gas.

Series	Pipe Size	Gauge Port	Max. Flow†	Max. Pressure	Max. Temp.	Adjustment Range*	Overall Height	Overall Width	Brand	Mfr. Model	Item No.
General Purpose Air Regulators											
Nonrising Locking											
Mini	⅛"	⅛" NPT	13 cfm	300 psi	125°F	5 to 125 psi	3.14"	1.65"	Wilkerson	R03-01-000	**4TY38**
	¼"	⅛" NPT	22 cfm	300 psi	125°F	5 to 125 psi	3.14"	1.65"	Wilkerson	R03-02-000	**4TY39**
Brass Mini	¼"	⅛" NPT	14 cfm	300 psi	125°F	0 to 125 psi	3.42"	1.50"	Wilkerson	RB3-02-F000	**6B216**
Rising											
Jumbo	¾"	¼" NPT	470 cfm	300 psi	150°F	10 to 125 psi	10.30"	4.30"	Wilkerson	R30-06-000	**6B207**
	1"	¼" NPT	500 cfm	300 psi	150°F	10 to 125 psi	10.30"	4.30"	Wilkerson	R30-08-000	**6B206**
	1½"	¼" NPT	1200 cfm	300 psi	150°F	10 to 125 psi	11.90"	5.30"	Wilkerson	R40-0B-000	**5GC18**
	2"	¼" NPT	1200 cfm	300 psi	150°F	10 to 125 psi	11.90"	5.30"	Wilkerson	R40-0C-000	**5GC19**
Nonrising Dial											
—	¼"	¼" NPT	117 cfm	300 psi	150°F	0 to 160 psi	4.10"	2.60"	Wilkerson	R21-02-000	**5GC14**
	⅜"	¼" NPT	180 cfm	300 psi	150°F	0 to 160 psi	4.10"	2.60"	Wilkerson	R21-03-000	**5GC15**
	½"	¼" NPT	195 cfm	300 psi	150°F	0 to 160 psi	4.10"	2.60"	Wilkerson	R21-04-000	**5GC16**
	¾"	¼" NPT	220 cfm	300 psi	150°F	0 to 160 psi	4.10"	2.60"	Wilkerson	R21-06-000	**5GC17**
General Purpose Air Regulators, Stainless Steel											
Hex											
Miniature	¼"	⅛" NPT	12 cfm	300 psi	150°F	0 to 125 psi	2.67"	1.56"	Wilkerson	SR1-02-LAS0	**2KEH3**
	¼"	¼" NPT	12 cfm	300 psi	150°F	0 to 60 psi	2.67"	1.56"	Wilkerson	SR1-02-KAS0	**2KEH4**
T-Handle											
Standard	½"	¼" NPT	80 cfm	300 psi	150°F	0 to 125 psi	6.08"	2.34"	Wilkerson	SR2-04-LAS0	**2KEH5**
	½"	¼" NPT	80 cfm	300 psi	150°F	0 to 60 psi	6.08"	2.34"	Wilkerson	SR2-04-KAS0	**2KEH6**

Fits	Brand	Item No.
Mounting Brackets		
Series R03, BB3	Wilkerson	**6B253**
Series F08, M08, B08	Wilkerson	**6B221**
Series R12, B12	Wilkerson	**4RA40**
Series R18	Wilkerson	**6B242**
Series R28	Wilkerson	**6B241**

Connec. Size	Dial Size	Brand	Item No.
Pressure Gauges			
⅛" NPT	1½"	GA	**4FLZ8**
¼" NPT	2"	GA	**4FMC7**

For Use with Model No.	Brand	Item No.
Regulator Panel Nut		
Series R12	Wilkerson	**4RA41**
Mounting Nut		
6D756, 6B313, 6D757, 6B312, 6D758, 6B213, 6B212, 6B211	Wilkerson	**5WRU4**
B08-02-FK00, B08-02-FL00, R08-02-F000	Wilkerson	**5WRU3**
R03-01-000, R03-02-000	Wilkerson	**5WRU2**
R28-03-F000, R28-04-F000, R28-06-F000, B28-03-FK00, B28-03-FL00, B28-04-FK00, B28-04-FL00, B28-06-FK00	Wilkerson	**5WRU5**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop. * The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

WILKERSON®

Oil Removal (Coalescing) Filters

- 0.01 micron, except Nos. 6B257, 6B256, 6B255, and 6B254 are 0.5 micron

Eliminate 99.9% or more of water and oil liquid aerosols and submicron particles.

Note: For maximum life, use in conjunction with a 5-micron element.

Fits	Mfr. Model	Item No.
Mounting Brackets		
Series F08, M08, B08	GPA-97-010	**6B221**
Series F12, M12	GPA-96-300	**4RA39**
Series F18, M18	GPA-96-604	**6B244**
Series F28, M28	GPA-96-605	**6B243**
Automatic Drains		
Series F08, M08	GRP-96-716	**6B227**
Series F18, F28, F30, B18, B28, M18, M28, M30	GRP-95-973	**6B251**
Replacement Filter Elements		
Series M08	MSP-96-732	**6B224**
Series M18	MSP-96-647	**6B232**
Series M28	MSP-96-649	**6B231**
Series M30	N17-95-992	**6B248**
Series M35	MSP-95-502	**6B250**
Series SM1	SRP-96-005	**2KEJ5**
Series SM2	SRP-96-006	**2KEJ6**

Description	Pipe Size	Max. Flow*	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate with Guard								
Jumbo	¾" NPT	140 cfm	150 psi	125°F	10.80"	4.80"	M30-06-S00	**6B257**
	1" NPT	160 cfm	150 psi	125°F	10.80"	4.80"	M30-08-S00	**6B256**
Metal								
Jumbo	¾" NPT	140 cfm	200 psi	150°F	10.50"	4.80"	M30-06-M00	**6D812**
	1" NPT	160 cfm	200 psi	150°F	10.50"	4.80"	M30-08-M00	**6D813**
	1½" NPT	445 cfm	150 psi	150°F	19.07"	7.80"	M35-0B-S00	**6B255**
	2" NPT	445 cfm	150 psi	150°F	19.07"	7.80"	M35-0C-S00	**6B254**
Stainless Steel								
Miniature	¼" NPT	16 cfm	300 psi	180°F	4.00"	1.57"	SM1-02-EYV0	**2KEH1**
Standard	½" NPT	46 cfm	300 psi	180°F	5.56"	2.38"	SM2-04-EYV0	**2KEH2**

**** cfm rating based on 100 psig inlet and 1 psig pressure drop.***



No. 6B257

WILKERSON®

GA GRAINGER APPROVED

Piggyback Air Line Filter/Regulators

- 5-micron filter element
- Polycarbonate bowl: 125°F max. temp.; metal bowl: 150°F max. temp.

WARNING: Product rupture can cause serious injury. Do not connect regulator to bottled gas. Note: Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow†	Max. Pressure	Adjustment Range	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate								
Brass Miniature	¼" NPT	16 cfm	150 psi	5 to 125 psi	6.25"	1.56"	BB3-02-FK00	**3RA90**
Stainless Steel								
Miniature	¼" NPT	12 cfm	300 psi	0 to 125 psi	6.25"	1.56"	SB1-02-LYSS	**2KEH7**
	¼" NPT	12 cfm	300 psi	0 to 60 psi	6.25"	1.56"	SB1-02-KYSS	**2KEH8**
Standard	½" NPT	72 cfm	300 psi	0 to 125 psi	8.59"	2.50"	SB2-04-LYSS	**2KEH9**
	½" NPT	72 cfm	300 psi	0 to 60 psi	8.59"	2.50"	SB2-04-KYSS	**2KEJ1**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop.



No. 3RA90



No. 6B227

Fits	Mfr. Model	Brand	Item No.
Automatic Drains			
Series F08, M08	GRP-96-716	Wilkerson	**6B227**
Series F18, F28, F30, B18, B28, M18, M28, M30	GRP-95-973	Wilkerson	**6B251**
Mounting Brackets			
Series R03, BB3	GRP-95-147	Wilkerson	**6B253**
Series F08, M08, B08	GPA-97-010	Wilkerson	**6B221**
Series R12, B12	GPA-96-313	Wilkerson	**4RA40**
Series F18, M18	GPA-96-604	Wilkerson	**6B244**
Series F28, M28	GPA-96-605	Wilkerson	**6B243**
Replacement Filter Elements			
Series B0B	FRP-96-729	Wilkerson	**6B225**
Series B1B	FRP-96-639	Wilkerson	**6B233**
Series B2B	FRP-96-653	Wilkerson	**6B230**
Series BB3	FRP-96-806	Wilkerson	**1WXB4**

Connection Size	Dial Size	Brand	Item No.
Pressure Gauges			
⅛"	1½"	GA	**4FLZ8**
¼"	2"	GA	**4FMC7**

WILKERSON®

In-Line Lubricators

- Polycarbonate bowl: 150 max. input psi; 125°F max. temp.
- Metal bowl: 250 max. input psi (except jumbo units are 200 max. input psi); 150°F max. temp.

Install unit close to the application to ensure effective oil distribution.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperatures outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Do not use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc. Should not be used where acids or bases are present or in salt-laden atmospheres.

Series	Pipe Size	Max. Flow*	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate w/Guard						
Jumbo	¾" NPT	196 cfm	10.38"	4.79"	L30-06-000	**6B268**
	1" NPT	374 cfm	10.38"	4.79"	L30-08-000	**6B267**
	1½" NPT	927 cfm	11.67"	5.50"	L40-0B-000	**5GC10**
	2" NPT	1186 cfm	12.32"	5.50"	L50-0C-000	**5GC11**
Metal w/Sight Gauge						
Jumbo	¾" NPT	196 cfm	10.95"	4.79"	L30-06-G00	**6D801**
	1" NPT	374 cfm	10.95"	4.79"	L30-08-G00	**6D802**
Stainless Steel						
Standard	½" NPT	100 PCM	7.62"	2.36"	SL2-04-LLV0	**2KEJ2**

**** cfm rating based on 100 psig inlet and 5 psig pressure drop.***

For Use With	Mfr. Model	Item No.
Air Line Lubricator Polycarbonate Bowl Replacement Kits		
Wilkerson Miniature Lubricators	LRP-96-736	**1AFG3**
Wilkerson Subcompact Lubricators	LRP-96-308	**1AFG4**
Wilkerson Compact Lubricators	LRP-96-701	**1AFG5**
Wilkerson Standard Lubricators	LRP-96-702	**1AFG6**



No. 6B268



No. 6B299

2- and 3-Pc. Combination Units

- Remove particulate down to 5 microns
- Max. pressure: 150 psi (polycarbonate bowl), 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl), 150°F (metal bowl)

2-pc. design integrates filter/regulator and lubricator, and 3-pc. design integrates filter, regulator, and lubricator into a single unit. Ready-to-mount assemblies come with a pressure gauge and modulator T-bracket/joiner assembly. For replacement filter elements, see pages 2596, 2597.

WILKERSON

Note: Unit should not be located in areas subject to direct sunlight, direct impact, or temperatures outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow*	Series	Overall Height	Overall Width	POLYCARBONATE WITH GUARD Mfr. Model	POLYCARBONATE WITH GUARD Item No.	METAL WITH SIGHT GLASS Mfr. Model	METAL WITH SIGHT GLASS Item No.
2-pc.									
Miniature	¼" NPT	44 cfm	8	6.96"	3.15"	D08-02-FKG0	**6B299**	D08-02-FLG0	**6D771**
Compact	¼" NPT	52 cfm	18	10.30"	5.06"	D18-02-FKG0	**6B298**	D18-02-FLG0	**6D772**
	⅜" NPT	65 cfm	18	10.30"	5.06"	D18-03-FKG0	**6B297**	D18-03-FLG0	**6D773**
	½" NPT	65 cfm	18	10.30"	5.06"	D18-04-FKG0	**6B296**	D18-04-FLG0	**6D774**
Standard	⅜" NPT	65 cfm	28	11.44"	6.10"	D28-03-FKG0	**6B295**	D28-03-FLG0	**6D775**
	½" NPT	80 cfm	28	11.44"	6.10"	D28-04-FKG0	**6B294**	D28-04-FLG0	**6D776**
	¾" NPT	90 cfm	28	11.44"	6.10"	D28-06-FKG0	**6B293**	D28-06-FLG0	**6D777**
3-pc.									
Miniature	¼" NPT	44 cfm	8	6.29"	4.72"	C08-02-FKG0	**6B306**	C08-02-FLG0	**6D764**
Compact	¼" NPT	70 cfm	18	9.03"	7.77"	C18-02-FKG0	**6B305**	C18-02-FLG0	**6D765**
	⅜" NPT	70 cfm	18	9.03"	7.77"	C18-03-FKG0	**6B304**	C18-03-FLG0	**6D766**
	½" NPT	70 cfm	18	9.03"	7.77"	C18-04-FKG0	**6B303**	C18-04-FLG0	**6D767**
Standard	⅜" NPT	95 cfm	28	9.36"	9.32"	C28-03-FKG0	**6B302**	C28-03-FLG0	**6D768**
	½" NPT	100 cfm	28	9.36"	9.32"	C28-04-FKG0	**6B301**	C28-04-FLG0	**6D769**
	¾" NPT	105 cfm	28	9.36"	9.32"	C28-06-FKG0	**6B300**	C28-06-FLG0	**6D770**

** cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop.*


No. 6B218


No. 45LV68


No. 6B245

WILKERSON GA GRAINGER APPROVED

Modular Accessories for 2- and 3-Pc. Combination Units

Manually operated. In the closed position, downstream air is exhausted into the atmosphere. May be locked in closed position using a padlock (not included). Max. temp.: 176°F.

Item	NPT (in.)	Brand	Item No.
Modular Accessories, Series 08			
Modular Unit Connector	—	Wilkerson	**6B222**
Modular Mounting Bracket	—	Wilkerson	**6B223**
End Block Connector	¼	Wilkerson	**6B220**
End Block Connecting Set	¼	Wilkerson	**6B218** *
Lock Out Ball Valve	¼	Wilkerson	**45LV70**
End Block Connector	⅜	Wilkerson	**6B219**
Modular Accessories, Series 12 Sub Compact			
Type T Mounting Bracket	—	Wilkerson	**4RA38**
Modular Unit Connector	—	Wilkerson	**4RA35**
Modular Accessories, Series 18			
Lock Out Ball Valve	⅜	Wilkerson	**45LV69**
Lock Out Ball Valve	½	Wilkerson	**45LV68**
Modular Accessories, Series 18 and 28			
Mounting T-Bracket w/Joiner Set	—	Wilkerson	**6B245**
Mounting T-Bracket	—	Wilkerson	**6B246**
Joiner Set	—	Wilkerson	**6B247**
End Block Connector	¼	Wilkerson	**6B238**
End Block Connector	⅜	Wilkerson	**6B237**
End Block Connector	½	Wilkerson	**6B236**
End Block Connector	¾	Wilkerson	**6B235**
Modular Accessories, Series 28			
Lock Out Ball Valve	½	Wilkerson	**45LV67**
Lock Out Ball Valve	¾	Wilkerson	**45LV66**

Connection Size	Connection Type	Dial Size	Brand	Item No.
Pressure Gauges				
⅛"	MNPT	1½"	GA	**4FLZ8**
¼"	MNPT	2"	GA	**4FMC7**

** Includes 2 end-block connectors, mounting brackets, and joiner sets. † Contains 2 end-blocks and joiner sets.*


No. 21U801

No. 21U837

Parker

General Purpose Filters

- Remove impurities down to 5 microns

Feature a heavy-duty bowl with sight glass, manual drain, and a larger surface area for longer life. Heavy-duty units come with an automatic drain.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperature outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow*	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
Die-Cast Zinc								
Compact	¼" NPT	53 cfm	250 psi	175°F	6.22"	2.81"	06F14BC	**21U801**
	⅜" NPT	80 cfm	250 psi	175°F	6.22"	2.81"	06F24BC	**21U802**
	½" NPT	85 cfm	250 psi	175°F	6.22"	2.81"	06F34BC	**21U803**
Standard	½" NPT	130 cfm	250 psi	175°F	7.67"	3.24"	07F34BC	**21U822**
	¾" NPT	145 cfm	250 psi	175°F	7.67"	3.24"	07F44BC	**21U823**
Heavy-Duty	1" NPT	300 cfm	175 psi	150°F	8.72"	4.90"	F602-06WGR/M4	**21U836**
	1" NPT	300 cfm	175 psi	150°F	8.72"	4.90"	F602-08WGR/M4	**21U837**
	1½" NPT	450 cfm	175 psi	150°F	9.46"	4.90"	F602-12WGR/M4	**21U839**

For Use with Stock No.	Item No.
Replacement Filter Elements	
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808	**21U850** **21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827	**21U868**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,	**21U865** **21U869**
Mounting Brackets	
06F14BC, 06F24BC, 06F34BC, 16L14BE, 16L24BE, 16L34BE	**21U854**
07F34BC, 07F44BC, 17L34BE, 17L44BE	**21U857**
Metal Bowl Kits	
16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC	**21U853** **21U852**
16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U859**
17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U860**
F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4, C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR	**21U863**
Automatic Drains	
16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U849**
F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4, C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR	**21U864**

** cfm rating based on 100 psig inlet and 5 psig pressure drop.*

Parker ★ GA GRAINGER APPROVED

Nonrising Knob Regulators

Suitable for use where regulators are not easily accessible. Ideal for use in applications requiring a constant pressure with variable flow rate.

WARNING: Do not connect regulator to bottled gas.

Series	Pipe Size	Gauge Port	Max. Flow†	Max. Pressure	Max. Temp.	Adjustment Range*	Overall Height	Overall Width	Brand	Mfr. Model	Item No.
6	¼"	¼" NPT	53 cfm	250 psi	175°F	0 to 125 psi	6.08"	2.84"	Parker	06R118AC	**21U810**
	⅜"	¼" NPT	60 cfm	250 psi	175°F	0 to 125 psi	6.08"	2.84"	Parker	06R218AC	**21U811**
	½"	¼" NPT	75 cfm	250 psi	175°F	0 to 125 psi	6.08"	2.84"	Parker	06R318AC	**21U812**
7	½"	¼" NPT	90 cfm	250 psi	175°F	0 to 125 psi	6.40"	3.24"	Parker	07R318AC	**21U828**
	¾"	¼" NPT	90 cfm	250 psi	175°F	0 to 125 psi	6.40"	3.24"	Parker	07R418AC	**21U829**
R119	½"	¼" NPT	150 cfm	300 psi	125°F	0 to 125 psi	6.76"	3.56"	Parker	R119-04CG	**21U840**
	¾"	¼" NPT	300 cfm	300 psi	125°F	0 to 125 psi	10.02"	4.69"	Parker	R119-06CG/M2	**21U841**
	1"	¼" NPT	400 cfm	300 psi	125°F	0 to 125 psi	10.02"	4.69"	Parker	R119-08CG/M2	**21U842**
	1½"	¼" NPT	500 cfm	300 psi	125°F	0 to 125 psi	10.34"	4.94"	Parker	R119-12CG/M2	**21U844**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop. * The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

Fits	Brand	Item No.
Mounting Brackets		
06F, 06E, 06A, 06G, 16A, 16G	Parker	**21U851**
07R, 07E, 07A, 07G, 17A, 17G	Parker	**21U858**
R119, C628	Parker	**21U862**

Connec. Size	Dial Size	Brand	Item No.
Pressure Gauges			
⅛" NPT	1½"	GA	**4FLZ8**
¼" NPT	2"	GA	**4FMC7**



No. 21U812



No. 21U842



No. 21U21



No. 21U853

Parker

Piggyback Air Line Filter/Regulators

- 5-micron filter element
- Metal bowl/sight glass
- 150°F max. temp.
- Adjustment range: 0 to 125 psi

Compact units are made of die-cast zinc.

WARNING: Product rupture can cause serious injury. Do not connect regulator to bottled gas. Note: Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Pipe Size	Max. Flow†	Max. Pressure	Overall Height	Overall Width	Mfr. Model	Item No.
¼" NPT	46 cfm	250 psi	10.38"	2.81"	06E14B18AC	**21U797**
⅜" NPT	55 cfm	250 psi	10.38"	2.81"	06E24B18AC	**21U798**
½" NPT	61 cfm	250 psi	10.38"	2.81"	06E34B18AC	**21U799**
	90 cfm	250 psi	11.76"	3.24"	07E34B18AC	**21U820**
¾" NPT	90 cfm	250 psi	11.76"	3.24"	07E44B18AC	**21U821**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop.

Fits	Includes	Mfr. Model	Item No.
Automatic Drains			
06F, 07F, 06E, 07E, 06A, 07A, 06G, 07G	Automatic Drain, O-Ring, And Mounting Nut	PS506P	**21U849**
Metal Bowl Kits			
06F, 06E, 06A, 06G	Metal Bowl and Automatic Drain	PS726P	**21U852**
	Metal Bowl, Sight Glass, And Manual Drain	PS735P	**21U853**
07F, 07E, 07A, 07G	Metal Bowl, Sight Glass, And Automatic Drain	PS823P	**21U859**
	Metal Bowl, Sight Glass, And Manual Drain	PS835P	**21U860**
Mounting Brackets			
06F, 06E, 06A, 06G, 16A, 16G	Mounting Bracket And Nut	PS707P	**21U851**
07R, 07E, 07A, 07G, 17A, 17G	Mounting Bracket And Nut	PS807P	**21U858**
Replacement Filter Elements			
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808		PS701P	**21U850**
		PS702P	**21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827		PS801P	**21U856**
		PS802P	**21U868**



No. 21U813



No. 21U845



No. 21U866

Parker

In-Line Lubricators

- 250 max. input psi; 150°F max. temp.

Install close to the application to ensure effective oil distribution. Zinc bowl.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperatures outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Do not use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc. Should not be used where acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	Mfr. Model	Item No.
Zinc						
Micromist	¼" NPT	40 cfm	7.82"	2.74"	16L14BE	**21U813**
	⅜" NPT	60 cfm	7.82"	2.74"	16L24BE	**21U814**
	½" NPT	90 PCM	7.82"	2.74"	16L34BE	**21U815**
	½" NPT	90 PCM	9.09"	3.25"	17L34BE	**21U830**
	¾" NPT	90 cfm	9.09"	3.25"	17L44BE	**21U831**
Mist	¾" NPT	325 cfm	9.88"	4.97"	L606-06W/M8	**21U845**
	1" NPT	350 cfm	9.88"	4.97"	L606-08W/M8	**21U846**
	1½" NPT	400 cfm	10.47"	4.97"	L606-12W/M8	**21U848**

Fits	Mfr. Model	Item No.
Metal Bowl Kits		
16L, 16A, 16G	PS729P	**21U855**
L606, C628	BK609WB	**21U866**
07L, 07A, 07G, 17L, 17A, 17G	PS829P	**21U861**
Mounting Brackets		
06F, 16L, 16A, 16G	PS743P	**21U854**
07F, 17L, 17A, 17G	PS843P	**21U857**

**** cfm rating based on 100 psig inlet and 5 psig pressure drop.***

Prep Air II
No. 21U793



General Line
No. 21U833



2- and 3-Pc. Combination Units

- 5-micron particulate filter
- Max. pressure: 250 psi
- Max. temp.: 175°F, except Nos. 21U832 to 21U835 are 150°F

Feature either a manual or automatic drain to remove collected water from filter bowl. Provide long life and accurate pressure regulation. Units have die-cast zinc bowl and included gauge. Easy to install in most pneumatic systems. Metal bowl kits available on Grainger.com®.

Pipe Size	Drain Type	Max. Flow	2-PC. Overall Height	2-PC. Overall Width	2-PC. Mfr. Model	2-PC. Item No.	3-PC. Overall Height	3-PC. Overall Width	3-PC. Mfr. Model	3-PC. Item No.
Prep Air II										
¼" NPT	Automatic	40 cfm	10.38"	6.13"	16G18B18A4BC	**21U807**	7.93"	9.45"	16A18B18A4BC	**21U794**
⅜" NPT	Automatic	60 cfm	10.38"	6.13"	16G28B18A4BC	**21U808**	7.93"	9.45"	16A28B18A4BC	**21U795**
½" NPT	Automatic	90 cfm	10.38"	6.13"	16G38B18A4BC	**21U809**	7.93"	9.45"	16A38B18A4BC	**21U796**
¾" NPT	Automatic	90 cfm	11.76"	6.99"	17G38B18A4BD	**21U826**	9.38"	10.74"	17A48B18A4BD	**21U819**
	Automatic	90 cfm	11.76"	6.99"	17G48B18A4BD	**21U827**	9.38"	10.74"	17A38B18A4BD	**21U818**
½" NPT	Manual	90 cfm	10.38"	6.13"	16G34B18A4BC	**21U806**	7.93"	9.45"	16A34B18A4BC	**21U793**
	Manual	90 cfm	11.76"	6.99"	17G34B18A4BD	**21U824**	9.38"	10.74"	17A34B18A4BD	**21U816**
¾" NPT	Manual	90 cfm	11.76"	6.99"	17G44B18A4BD	**21U825**	9.38"	10.74"	17A44B18A4BD	**21U817**
¼" NPT	Manual	40 cfm	10.38"	6.13"	16G14B18A4BC	**21U804**	7.93"	9.45"	16A14B18A4BC	**21U791**
⅜" NPT	Manual	60 cfm	10.38"	6.13"	16G24B18A4BC	**21U805**	7.93"	9.45"	16A24B18A4BC	**21U792**

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
General Line Automatic Drain, 3-Piece					
¾" NPT	325 cfm	13.00"	15.75"	C628-06FRLWGCWR	**21U832**
1" NPT	350 cfm	13.00"	15.75"	C628-08FRLWGCWR	**21U833**
1½" NPT	400 cfm	14.13"	16.50"	C628-12FRLWGCWR	**21U835**
Parker Watts Automatic Drain, 3-Piece					
½" NPT	90 cfm	7.93"	10.55"	C628-04FRL8ACA4B	**19PK09**

For Use with Stock No.	Includes	Item No.
Automatic Drains		
16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	Automatic Drain, O-Ring, And Mounting Nut	**21U849**
F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4, C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR		**21U864**
Metal Bowl Kits		
21U830, 21U831	Metal Bowl, Sight Glass, And Manual Drain	**21U861**
Mounting Brackets		
06E14B18AC, 06E24B18AC, 06E34B18AC, 06R118AC, 06R218AC, 06R318AC, 16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 16G38B18A4BC	Mounting Bracket And Nut	**21U851**
17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 07E34B18AC, 07E44B18AC, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD, 07R318AC, 07R418AC	Mounting Bracket And Nut	**21U858**
R119-06CG/M2, R119-08CG/M2, R119-10CG/M2, R119-12CG/M2	Mounting Bracket	**21U862**
Filter Element Kits		
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808	—	**21U850**
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808	—	**21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827	—	**21U856**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827	—	**21U868**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,	—	**21U865**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,	—	**21U869**

No.
4HEW1



In-Line Disposable Air Filters

- ¼" tube size
- Pkg. qty.: 10

Miniature filters remove particulate and trace liquid contaminants. Ideal for filtering samples to analyzers, controls, and instrumentation. Has microfibre fitler media.

Bowl Material	Includes	Overall Width	Overall Width	Max. Flow	Max. Temp.	Item No.
0.003 oz. Bowl Size						
Kynar	—	1.00"	1.00"	6.3 cfm	275°F	**4HEU9**
	—	1.00"	1.00"	10.1 cfm	275°F	**4HEV1**
Nylon	—	1.00"	1.00"	6.3 cfm	230°F	**4HEV4**
	—	1.10"	1.10"	6.3 cfm	230°F	**4HEW1**
	Oil Indicator	1.00"	1.00"	6.3 cfm	230°F	**4HEU8**
	—	1.00"	1.00"	10.1 cfm	230°F	**4HEV5**
	—	1.10"	1.10"	10.1 cfm	230°F	**4HEW2**

Bowl Material	Includes	Overall Width	Overall Width	Max. Flow	Max. Temp.	Item No.
0.005 oz. Bowl Size						
Kynar	—	1.30"	1.30"	7.3 cfm	275°F	**4HEV2**
	—	1.30"	1.30"	14.6 cfm	275°F	**4HEV3**
Nylon	—	1.30"	1.30"	7.3 cfm	230°F	**4HEV6**
	Drain Port	2.10"	2.10"	7.3 cfm	230°F	**4HEV9**
	—	1.30"	1.30"	14.6 cfm	230°F	**4HEV7**
	Drain Port	2.10"	2.10"	14.6 cfm	230°F	**4HEV8**

Low-Flow
No. 3NA77



Low- and High-Flow Precision Regulators

- Accuracy: ±0.1%
- Max. input pressure: 150 psi (low-flow); 400 psi (high-flow)
- Max. temp.: 150°F

Can be panel-mounted or supported by in-line plumbing. Rugged die-cast and aluminum housings have vinyl-painted finish.

Pipe Size	Adjustment Range	Max. Flow	Overall Length	Overall Height	Overall Width	Item No.
Low-Flow						
¼"	2 to 25 psi	14 cfm	2.13"	4.25"	2.13"	**3NA78**
	2 to 60 psi	14 cfm	2.13"	4.25"	2.13"	**3NA77**
⅜"	2 to 25 psi	14 cfm	2.13"	4.25"	2.13"	**3NA80**
	2 to 60 psi	14 cfm	2.13"	4.25"	2.13"	**3NA79**
Mounting Bracket for Low-Flow						
—	—	—	3"	1.8"	2.5"	**1XWU3**

Pipe Size	Adjustment Range	Max. Flow	Overall Length	Overall Height	Overall Width	Item No.
High-Flow						
⅜"	0 to 30 psi	200 cfm	3.63"	7.25"	3.63"	**3NA82**
	0 to 60 psi	200 cfm	3.63"	7.25"	3.63"	**3NA81**
½"	0 to 30 psi	200 cfm	3.63"	7.25"	3.63"	**3NA84**
	0 to 60 psi	200 cfm	3.63"	7.25"	3.63"	**3NA83**
¾"	0 to 30 psi	200 cfm	3.63"	7.25"	3.63"	**3NA86**
	0 to 60 psi	200 cfm	3.63"	7.25"	3.63"	**3NA85**
Mounting Bracket for High-Flow						
—	—	—	—	—	—	**1XWU2**



No. 3FET1

Electric Pressure Sensors

- Temp. range: -4° to 184°F
- Port size: 7/16-20 UNF 2-B (SAE4)

Can be used for both pneumatic and hydraulic systems.

Max. Pressure (psi)	Adjustment Range (psi)	Mfr. Model	Item No.
100	-14.7 to 100	SCPSD-0100P-1727	**3FET1**
250	-14.7 to 250	SCPSD-0250P-1727	**3FET2**
1000	0 to 1000	SCPSD-1000P-1727	**3FET3**
3000	0 to 3000	SCPSD-3000P-1727	**3FET4**
5000	0 to 5000	SCPSD-5000P-1727	**3FET5**
9000	0 to 9000	SCPSD-9000P-1727	**3FET6**

No.
49XW51



Compressor Regulators

Include inlet and system pressure gauges and locking adjustment knobs.

Pipe Size	Max. Flow	Max. Inlet Pressure	Adjustment Range	Overall Length	Overall Height	Overall Width	Item No.
½"	75 cfm	300 psi	0 to 160 psi	7.38"	7.28"	8.11"	**49XW51**
1"	200 cfm	300 psi	0 to 160 psi	7.38"	7.28"	8.11"	**49XW52**
2"	1000 cfm	300 psi	0 to 160 psi	7.38"	7.28"	8.11"	**49XW53**

General Purpose Filters

ARO®

Help extend air tool service life when installed upstream from the regulator and lubricator. Protect against contamination by rust, scale, condensed water, and other debris.

Pipe Size	Max. Flow	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.	Filter Element Mfr. Model	Filter Element Item No.
Polycarbonate									
¼" NPT	49 cfm	150 psi	125°F	4.30"	1.81"	F35121-400	**4PJD5**	104295	**4PJP9**
⅜" NPT	107 cfm	150 psi	125°F	6.16"	2.24"	F35231-400	**4PJD7**	104422	**4PJR1**
½" NPT	197 cfm	150 psi	125°F	7.05"	2.87"	F35341-400	**4PJD9**	104317	**4PJT5**
Metal with Sight Gauge									
½" NPT	197 cfm	250 psi	175°F	7.05"	2.87"	F35341-410	**4PJE6**	104317	**4PJT5**
¾" NPT	216 cfm	250 psi	175°F	7.05"	2.87"	F35351-410	**4PJE7**	104317	**4PJT5**
¾" NPT	288 cfm	250 psi	175°F	9.93"	3.86"	F35451-410	**4PJE8**	104445	**4PJT6**
1" NPT	353 cfm	250 psi	175°F	9.93"	3.86"	F35461-410	**4PJE9**	104445	**4PJT6**



No. 4PJE9

General Purpose Regulators and Accessories

ARO®

- Pressure range: 0 to 140 psi
- Include gauge

Provide controlled, consistent air pressure.

Pipe Size	Max. Flow	Adjustment Range	Overall Height	Overall Width	Series	Mfr. Model	Item No.	Mounting Bracket Mfr. Model	Mounting Bracket Item No.
¼"	59 cfm	0 to 140 psi	3.50"	1.63"	1000	R37121-600	**6CRL8**	104403	**6CRP3**
⅜"	113 cfm	0 to 140 psi	4.81"	2.25"	1500	R37231-600	**6CRL9**	104404	**6CRP4**
½"	210 cfm	0 to 140 psi	5.50"	2.75"	2000	R37341-600	**6CRN0**	104405	**6CRP5**
1"	290 cfm	0 to 140 psi	7.25"	3.50"	3000	R37461-600	**6CRN2**	104406	**6CRP6**


No. 6CRN0

In-Line Lubricators

ARO®

Distribute oil effectively to lubricate pneumatic devices.

Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Series	Mfr. Model	Item No.
Polycarbonate with Guard							
¼" NPT	51 cfm	150 psi	5.04"	1.81"	1000	L36121-100	**4PJH5**
⅜" NPT	105 cfm	150 psi	5.98"	2.24"	1500	L36231-100	**4PJH7**
Metal with Sight Glass							
½" NPT	156 cfm	250 psi	7.17"	2.87"	2000	L36341-110	**4PJJ5**
¾" NPT	368 cfm	250 psi	9.99"	3.86"	3000	L36451-110	**4PJJ7**
1" NPT	328 cfm	250 psi	9.99"	3.86"	3000	L36461-110	**4PJJ8**



No. 4PJH5

Air Line Filter/Regulators

ARO®

- Include gauge

Designed to remove airborne solid and liquid contaminants. Regulators also provide controlled, consistent air pressure.

Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate						
¼" NPT	47 cfm	150 psi	6.20"	1.60"	P39124-600	**6CRN3**
⅜" NPT	90 cfm	150 psi	8.15"	2.20"	P39234-600	**6CRN4**
½" NPT	172 cfm	150 psi	9.96"	2.76"	P39344-600	**6CRN5**
Metal with Sight Glass						
½" NPT	173 cfm	250 psi	10.03"	2.76"	P39344-610	**6CRN6**
¾" NPT	236 cfm	250 psi	13.64"	3.54"	P39454-610	**6CRN7**
1" NPT	250 cfm	250 psi	13.64"	3.54"	P39464-610	**6CRN8**


No. 6CRN3

2- and 3-Pc. Combination Filter, Regulator, and Lubrication Units

ARO®

- Include gauge

All units come preassembled. Compressed air filters are designed to remove airborne solid and liquid contaminants. Regulators provide controlled, consistent air pressure. Lubricators help ensure that pneumatic devices receive the required lubrication.

Pipe Size	Max. Flow	Overall Height	Overall Width	Bowl Material	Mfr. Model	Item No.
2-Pc. Filter/Regulator/Lubricator						
¼" NPT	44 cfm	6.20"	3.11"	Polycarbonate	C38121-600	**4PJL4**
¼" NPT	58 cfm	8.21"	3.27"	Polycarbonate	C38221-600	**4PJL5**
⅜" NPT	71 cfm	8.21"	3.27"	Polycarbonate	C38231-600	**4PJL6**
½" NPT	120 cfm	9.96"	3.55"	Polycarbonate	C38341-600	**4PJL8**
½" NPT	120 cfm	9.96"	3.55"	Metal	C38341-610	**4PJN4**
¾" NPT	201 cfm	13.60"	7.30"	Metal with Sight Glass	C38451-610	**6CRN9**
1" NPT	208 cfm	13.60"	7.30"	Metal with Sight Glass	C38461-610	**6CRP0**
3-Pc. Filter/Regulator/Lubricator						
½" NPT	150 cfm	9.96"	3.55"	Polycarbonate	C38341-800	**4PJP1**
½" NPT	150 cfm	9.96"	3.55"	Metal	C38341-810	**4PJP6**
¾" NPT	199 cfm	11.00"	11.10"	Metal with Sight Glass	C38451-810	**6CRP1**
1" NPT	215 cfm	11.00"	11.10"	Metal with Sight Glass	C38461-810	**6CRP2**



2-Pc.
No. 4PJL4



3-Pc.
No. 6CRP2

ARO®
Accessories for Filters, Regulators, and Lubricators

Item	NPT (in.)	Item No.
1000 Series		
Modular/Clamp Spacer	—	**4PJR5**
Pneumatic Lockout Valve	¼	**4PJU2**
T-Type Wall Mount	—	**4PJR6**
1500 Series		
Modular/Clamp Spacer	—	**4PJT1**
Pneumatic Lockout Valve	⅜	**4PJU4**
T-Type Wall Mount	—	**4PJR9**

Item	NPT (in.)	Item No.
2000 Series		
Modular/Clamp Spacer	—	**4PJR7**
Pneumatic Lockout Valve	½	**4PJU6**
T-Type Wall Mount	—	**4PJR8**
3000 Series		
Pneumatic Lockout Valve	¾	**4PJU7**
Pneumatic Lockout Valve	1	**4PJU8**
T-Type Wall Mount		**4PJT3**


Modular/Clamp Spacer
No. 4PJR5


Pneumatic Lockout Valve
No. 4PJU2


T-Type Wall Mount
No. 4PJR6

GROZ Modular Air Filter/Regulator/Lubricators (FRLs)

DYNAFLO®- AND JUPITER PNEUMATICS®-COMPATIBLE
- Groz products are compatible with DynaFlo® and Jupiter Pneumatics® FRLs

General Purpose Filters


No. 36JN51


No. 36JN52

Help separate dirt, dust, and moisture from compressed air and feature a built-in nighttime drain that automatically operates once the main air line is turned off. 40-micron bronze filter element provides long service life. Aluminum bowls are ideal for use where ambient air may contain chemicals.

Description	Pipe Size	Max. Flow	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Item No.	Compares To	Replacement Filter Element, 5 Microns Item No.	Replacement Filter Element, 40 Microns Item No.
Polycarbonate with Guard										
Miniature	¼" NPT	28 cfm	145 psi	140°F	4.45"	1.57"	**36JN48**	Dynaflo 0425923, Jupiter 42007807	**36JN82**	**36JN77**
Intermediate	¼" NPT	49 cfm	145 psi	140°F	5.51"	2.16"	**36JN49**	Dynaflo 0411019, Jupiter 42007815	**36JN83**	**36JN78**
	⅜" NPT	80 cfm	145 psi	140°F	5.51"	2.16"	**36JN50**	Dynaflo 0425924, Jupiter 42007823	**36JN83**	**36JN78**
Standard	½" NPT	125 cfm	145 psi	140°F	6.77"	2.75"	**36JN51**	Dynaflo 0425925, Jupiter 42007831	**36JN85**	**36JN80**
Aluminum										
Standard	½" NPT	125 cfm	290 psi	140°F	8.82"	2.75"	**36JN52**	Dynaflo 0411023, Jupiter 82199670	**36JN85**	**36JN80**

General Purpose Regulators


No. 36JN41

Maintain steady outlet pressure and unaffected by variations in the inlet pressure. Can be mounted horizontally, vertically, at an angle, or upside down. Adjustment range 7 to 145 psi. Include panel mounting nut.

Description	Pipe Size	Max. Flow	Gauge Port	Max. Inlet Pressure	Overall Height	Overall Width	Item No.	Compares To
Air Regulators								
Miniature	⅛"	17 cfm	⅛" NPT	220 psi	3.19"	1.57"	**36JN40**	Dynaflo 0425916, Jupiter 42007740
	¼"	21 cfm	⅛" NPT	220 psi	3.19"	1.57"	**36JN41**	Dynaflo 0425917, Jupiter 42007757
Intermediate	¼"	56 cfm	⅛" NPT	220 psi	5.31"	2.16"	**36JN42**	Dynaflo 0411018, Jupiter 42007765
	⅜"	88 cfm	⅛" NPT	220 psi	5.31"	2.16"	**36JN43**	Dynaflo 0425918, Jupiter 42007773
Standard	½"	140 cfm	⅛" NPT	220 psi	6.50"	2.75"	**36JN44**	Dynaflo 0425919, Jupiter 42007781

Gauge Application	Connec. Size	Dial Size	Item No.
Pressure Gauges			
Digital	¼" MNPT	1¼"	**36JP03**

In-Line Lubricators


No. 36JN59


No. 36JN60

Maintain a constant oil-to-air density to help increase air tool life. Aluminum bowls are suitable for use where ambient air may contain chemicals.

Description	Item No.
Replacement Bowls for Filters/Lubricators	
Miniature	**36JN87**
Intermediate	**36JN88**
Standard	**36JN89**

Description	Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Item No.	Compares To
Polycarbonate with Guard							
Miniature	¼" NPT	48 cfm	145 psi	5.31"	1.57"	**36JN56**	Dynaflo 0425929, Jupiter 42007591
Intermediate	⅜" NPT	106 cfm	145 psi	6.18"	2.16"	**36JN58**	Dynaflo 0425930, Jupiter 42007617
Standard	½" NPT	200 cfm	145 psi	7.48"	2.75"	**36JN59**	Dynaflo 0425931, Jupiter 42007625
Aluminum							
Standard	½" NPT	200 cfm	290 psi	9.45"	2.75"	**36JN60**	Dynaflo 0411031, Jupiter 82200296

In-Line Filter/Regulators


No. 36JN67


No. 36JN68

Air filter and air regulator all in a single unit. Feature a nighttime drain that automatically operates once the main air line is switched off. The built-in, 40-micron bronze filter can be easily cleaned and offers long service life. Pressure adjustment range: 7 to 145 psi.

Description	Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Item No.	Compares To	Replacement Filter Element, 5 Microns Item No.	Replacement Filter Element, 40 Microns Item No.
Polycarbonate with Guard									
Miniature	⅛" NPT	14 cfm	145 psi	6.69"	1.57"	**36JN63**	Dynaflo 0425934, Jupiter 42007385	**36JN82**	**36JN77**
	¼" NPT	20 cfm	145 psi	6.69"	1.57"	**36JN64**	Dynaflo 0425935, Jupiter 42007393	**36JN82**	**36JN77**
Intermediate	¼" NPT	63 cfm	145 psi	8.66"	2.17"	**36JN65**	Dynaflo 0411034, Jupiter 42007401	**36JN84**	**36JN79**
	⅜" NPT	77 cfm	145 psi	8.66"	2.17"	**36JN66**	Dynaflo 0425936, Jupiter 42007419	**36JN84**	**36JN79**
Standard	½" NPT	106 cfm	145 psi	11.02"	2.76"	**36JN67**	Dynaflo 0425937, Jupiter 42007427	**36JN85**	**36JN80**
Aluminum									
Standard	½" NPT	106 cfm	215 psi	13.00"	2.76"	**36JN68**	Dynaflo 0411038, Jupiter 82218231	**36JN85**	**36JN80**

2- and 3-Pc. Combination Filter/Regulator/Lubricator Units


No. 7DX40


No. 7DX47

Choose a compact, 2-pc. model or a fully modular 3-pc. combo unit. All include a wall mounting bracket. Built-in piping adapters allow you to easily remove/mount individual components without disturbing the air line.

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	Item No.	Compares To
2-Pc. Units						
Miniature	¼" NPT	18 cfm	6.69"	5.75"	**7DX37**	Dynaflo 0425940, Jupiter 42007450
Intermediate	¼" NPT	53 cfm	8.66"	7.17"	**7DX38**	Dynaflo 0411041, Jupiter 42007468
	⅜" NPT	63 cfm	8.66"	7.17"	**7DX39**	Dynaflo 0425941, Jupiter 42007476
Standard	½" NPT	99 cfm	11.02"	8.66"	**7DX40**	Dynaflo 0425942, Jupiter 42007484
	½" NPT	99 cfm	13"	8.66"	**7DX41**	Dynaflo 0411045, Jupiter 82218173

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	Item No.	Compares To
3-Pc. Units						
Miniature	¼" NPT	18 cfm	6.69"	7.87"	**7DX44**	Dynaflo 0425945, Jupiter 42007526
Intermediate	¼" NPT	46 cfm	8.66"	9.84"	**7DX45**	Dynaflo 0411048, Jupiter 42007534
	⅜" NPT	71 cfm	8.66"	9.84"	**7DX46**	Dynaflo 0425946, Jupiter 42007542
Standard	½" NPT	106 cfm	11.02"	12.00"	**7DX47**	Dynaflo 0425947, Jupiter 42007559
	½" NPT	106 cfm	13.00"	12.00"	**7DX48**	Dynaflo 0425950, Jupiter 82218116

Accessories for Filters, Regulators, and Lubricators


No. 36JN98


No. 36JN90

For Use with Stock No.	Item No.	Compares To
Mounting Clamps		
36JN47, 36JN48, 36JN55, 36JN56	**36JN90**	Dynaflo 0425966, Jupiter 42007161
36JN49, 36JN42, 36JN57, 36JN65, 36JN50, 36JN43, 36JN58, 36JN66	**36JP05**	Dynaflo 0425958, Jupiter 42007286

For Use with Stock No.	Item No.	Compares To
36JN51, 36JN44, 36JN59, 36JN67, 36JN60, 36JN68, 36JN52	**36JP06**	Dynaflo 0425959, Jupiter 42007294
36JN51, 36JN52, 36JN59, 36JN60	**36JN92**	Dynaflo 0425968, Jupiter 42007187
36JN53, 36JN54, 36JN61, 36JN62	**36JN93**	Dynaflo 0425969, Jupiter 82218009
36JN55, 36JN56, 36JN40, 36JN41, 36JN63, 36JN64, 36JN47, 36JN48	**36JP04**	Dynaflo 0425957, Jupiter 42007278
Pipe Adapters		
36JN51, 36JN44, 36JN59, 36JN67	**36JN98**	Dynaflo 0425963, Jupiter 42007237
36JN53, 36JN45, 36JN61, 36JN69	**36JN99**	Dynaflo 0425964, Jupiter 82219783



No. 1A483



No. 6B290

SPEEDAIRE WILKERSON

In-Line Filters

Speedaire®—Lightweight filter has all-anodized aluminum housing and is used before the air tool. Max. pressure: 500 psi. Operating temp.: 35° to 200°F. ¼" NPT.

Wilkerson®—Lightweight, with flow capacity to 17 cfm at 100 psi (200 psi max.). Operating temp.: 32° to 150°F. ¼" NPT.

Description	Brand	Mfr. Model	Item No.
40-micron Filter Element, Sintered Bronze	Speedaire	1A483	**1A483**
5-micron Filter Element	Wilkerson	F01-02-000	**6B290**



In-Line Regulator Amflo

This compact and lightweight regulator connects directly to the tool and allows you to easily adjust the air pressure. Just turn to select your desired air pressure and then lock in place. No need to go back to the air compressor when you need to make a pressure adjustment.

Pipe Size	Max. Flow	Max. Inlet Pressure	Adjustment Range	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
¼"	25 cfm	400 psi	40 to 140 psi	175°F	2.50"	1.25"	41145	**33KL52**

Booster Regulators SMC

- Pressure booster ratio: 2X
- Operating temp.: 35° to 122°F

Rugged, carbon steel regulators allow you to increase factory air pressure up to 2 times. Units are easy to install and require no power supply.



No. 45W761

Port Size	Thread Type	Max. Operating Pressure	Min. Operating Pressure	Max. Flow Rate	Item No.
¼"	NPT	290 psi	29 psi	8.1 scfm	**45W761**
⅜"	NPT	145 psi	29 psi	35.3 scfm	**45W762**
½"	NPT	145 psi	29 psi	67.1 scfm	**45W763**



Mist Eliminator No. 4ZL97



Lockout Valve No. 4ZL05

SPEEDAIRE

Pneumatic Accessories

Exhaust Silencer Mist Eliminators—Attach to a vertical leg of an air system to nullify pneumatic exhaust noise. Help remove oil mist from exhaust air for a cleaner work environment.

Heavy-Duty Lockout Valves—Exhaust all downstream pressure in an air line system. Can be padlocked in the closed (vented) position only.

Air Fuses—Designed to eliminate hose-whip if air line is accidentally cut.

Miniature Adjustable Pressure Relief Valve—Use in low-volume air tanks to retard excessive pressure.

NPT (in.)	Max. Flow (cfm)	Max. Pressure (psi)	Max. Temp. (°F)	Height (in.)	Width (in.)	Item No.
Exhaust Silencer Mist Eliminators						
½	35	150	160	7.1	3.54	**4ZL96**
1	100	150	160	10.51	4.33	**4ZL97**
1¼	100	150	160	10.51	4.33	**4ZL98**

NPT (in.)	Cv Forward	Cv Exhaust	Max. Pressure (psi)	Max. Temp. (°F)	Item No.
Heavy-Duty Lockout Valves					
⅜	6.6	6.6	300	175	**4ZL03**
½	9.3	7.9	300	175	**4ZL04**
¾	12.6	8.6	300	175	**4ZL05**
1	16.2	9.2	300	175	**4ZL06**



Air Fuse No. 5ZL35



Pressure-Relief Valve No. 4ZK10

NPT (in.)	Pressure Drop (psi)	Shut-Off Flow Rate @ 100 psi (SCFM)	Flow @ 100 psi w/ 1 psi Pressure Drop SCFM	Length (in.)	Width (in.)	Item No.
Air Fuses						
¼	4.4	29.7	13.8	2.01	0.81	**5ZL35**
⅜	4.4	68.2	28.6	2.44	0.94	**5ZL36**
½	4.4	102.3	49.2	3.07	1.25	**5ZL37**
¾	4.4	169.5	91.1	3.54	1.25	**5ZL38**

NPT (in.)	Max. Pressure (psi)	Max. Temp. (°F)	Adjustment Range	Height (in.)	Width (in.)	Item No.
Miniature Adjustable Pressure Relief Valve						
¼	300	200	125-300	1¾	0.79	**4ZK10**



No. 20Z884



No. 1A261

SPEEDAIRE WILKERSON

In-Line Lubricators

Hold enough air tool lubricant to last an 8-hr. shift. Max. inlet port pressure: 200 psi. Max. temp.: 150°F. 36 scfm rating.

Pipe Size	SPEEDAIRE Mfr. Model	SPEEDAIRE Item No.	WILKERSON Mfr. Model	WILKERSON Item No.
¼" NPT	20Z884	**20Z884**	L01-02-M00	**1A260**
⅜" NPT	20Z885	**20Z885**	L01-03-M00	**1A261**



No. 1EJU8



No. 1EJV1

SPEEDAIRE

In-Line Nipple Filters

Air/Oil Filter and Cartridge—All-anodized aluminum housing is designed to protect small air tools. Max. pressure: 500 psi. Max. temp.: 200°F.

Disposable Air/Oil/Water Filters—Conical filter elements provide larger filtering flow and uninterrupted axial flow. Max. pressure: 300 psi. Max. temp.: 300°F.

Pipe Size	Filter Rating	Item No.
Air/Oil Nipple Filter		
⅛" NPT	40 micron	**1EJU8**
Replacement Cartridge		
—	40 micron	**1EJU9**
Disposable Air/Oil/Water Nipple Filters		
⅛" NPT	40 micron	**1EJV1**
	90 micron	**1EJV2**
¼" NPT	40 micron	**1EJV3**
	90 micron	**1EJV4**
⅜" NPT	90 micron	**1EJV6**
½" NPT	40 micron	**1EJV7**
	90 micron	**1EJV8**



No. 4B508

WILKERSON

Exhaust Silencer Mist Eliminators

Meet 90dBA OSHA noise reduction requirement. ¼" slip-on drain tube fitting. Flow capacity to 200 cfm. Vertical mount only.

NPT (in.)	Mfr. Model	Item No.
½	XMC-04-000	**4B508**
1	XMC-08-000	**4B507**
1½	XMC-0B-000	**4B416**



No. 2YNN3

SPEEDAIRE

Mufflers

- Max. flow: 160 cfm
- Max. pressure: 300 psi
- Max. temp.: 160°F
- Filter rating: 0.9 microns
- Aluminum material
- ¼" slip-on drain tube fitting

Reclassifier/mufflers help reduce oil mist from exhausted air in many in-plant and white room pneumatic applications.

NPT (in.)	Fits	Length (in.)	Width (in.)	Item No.
Oil Removing Muffler				
⅛	⅛	3⅛	1⅝	**2YNL8**
¼	¼	3⅛	1⅝	**2YNL9**
⅜	⅜	4¾	2 1/16	**2YNN1**
½	½	4¾	2 1/16	**2YNN2**
¾	¾	6¼	3 5/16	**2YNN3**
1	1	6¼	3 5/16	**2YNN4**
Replacement Elements				
—	⅛ and ¼	2¾	1⅝	**2YNN5**
—	⅜ and ½	4 5/16	2 1/16	**2YNN6**
—	¾ and 1	5½	3 5/16	**2YNN7**



No. 3JT63

Continental ContiTech SPEEDAIRE

EPDM Air Hose Assemblies

- Temp. range: -20° to 210°F
- 4:1 safety factor
- 500-ft. hose length can be made from 1 or 2 pieces of varying lengths

Use with air, water, and mild chemicals in low-pressure industrial, construction, and agricultural applications.

Inside Dia.	Hose Length	Fitting Size	Brand	BLACK 200 PSI Outside Dia.	BLACK 200 PSI Item No.	RED 250 PSI Outside Dia.	RED 250 PSI Item No.	YELLOW 300 PSI Outside Dia.	YELLOW 300 PSI Item No.
Coupled Assembly, EPDM									
¼ in	5 ft	¼ in	Continental	½ in	**55CL77**	—	—	—	—
			Continental	½ in	**55CL80**	9⁄16 in	**55CM23**	9⁄16 in	**55CM71**
			Continental	½ in	**55CL83**	9⁄16 in	**55CM26**	9⁄16 in	**55CM74**
			Continental	½ in	**55CL86**	9⁄16 in	**55CM29**	9⁄16 in	**55CM77**
	10 ft		Continental	1 1⁄16 in	**55CL92**	9⁄16 in	**55CM32**	9⁄16 in	**55CM80**
			Continental	½ in	**55CL78**	9⁄16 in	**55CM24**	9⁄16 in	**55CM72**
			Continental	½ in	**55CL81**	9⁄16 in	**55CM27**	9⁄16 in	**55CM75**
			Continental	½ in	**55CL84**	9⁄16 in	**55CM30**	9⁄16 in	**55CM78**
			Continental	½ in	**55CL87**	9⁄16 in	**55CM33**	1 1⁄16 in	**55CM84**
	15 ft		Continental	1 1⁄16 in	**55CL90**	1 1⁄16 in	**55CM36**	9⁄16 in	**55CM81**
			Continental	½ in	**55CL79**	9⁄16 in	**55CM25**	9⁄16 in	**55CM73**
			Continental	½ in	**55CL82**	9⁄16 in	**55CM28**	9⁄16 in	**55CM76**
			Continental	½ in	**55CL85**	9⁄16 in	**55CM31**	9⁄16 in	**55CM79**
			Continental	½ in	**55CL88**	9⁄16 in	**55CM34**	1 1⁄16 in	**55CM85**
			Continental	1 1⁄16 in	**55CL91**	1 1⁄16 in	**55CM37**	9⁄16 in	**55CM82**
	25 ft		Speedaire	½ in	**3JT63**	—	—	—	—
	50 ft		Speedaire	½ in	**3JT65**	—	—	—	—
	100 ft		Continental	½ in	**52TV33**	9⁄16 in	**52TV37**	9⁄16 in	**52TV41**
⅜ in	5 ft	⅜ in	Continental	1 1⁄16 in	**55CL89**	—	—	—	—
			Continental	1 1⁄16 in	**55CL95**	1 1⁄16 in	**55CM35**	1 1⁄16 in	**55CM83**
			Continental	1 1⁄16 in	**55CL98**	1 1⁄16 in	**55CM38**	1 1⁄16 in	**55CM86**
			Continental	—	—	1 1⁄16 in	**55CM41**	1 1⁄16 in	**55CM89**
			Continental	—	—	1 1⁄16 in	**55CM44**	1 1⁄16 in	**55CM92**
	10 ft		Continental	1 1⁄16 in	**55CL93**	1 1⁄16 in	**55CM39**	1 1⁄16 in	**55CM87**
			Continental	1 1⁄16 in	**55CL96**	1 1⁄16 in	**55CM42**	1 1⁄16 in	**55CM90**
			Continental	1 1⁄16 in	**55CL99**	1 1⁄16 in	**55CM45**	1 1⁄16 in	**55CM93**
			Continental	1 1⁄16 in	**55CL94**	1 1⁄16 in	**55CM40**	1 1⁄16 in	**55CM88**
	15 ft		Continental	1 1⁄16 in	**55CL97**	1 1⁄16 in	**55CM43**	1 1⁄16 in	**55CM91**
			Continental	1 1⁄16 in	**55CM01**	1 1⁄16 in	**55CM46**	1 1⁄16 in	**55CM94**
	25 ft		Speedaire	⅝ in	**3JT68**	—	—	—	—
		⅜ in	Speedaire	⅜ in	**3JT69**	—	—	—	—
	50 ft	¼ in	Speedaire	⅝ in	**3JT71**	—	—	—	—
		⅜ in	Speedaire	⅝ in	**3JT72**	—	—	—	—
	100 ft		Continental	⅝ in	**52TV34**	1 1⁄16 in	**52TV38**	1 1⁄16 in	**52TV42**
		¼ in	Speedaire	1 1⁄16 in	**411F12**	—	—	—	—
½ in	5 ft	½ in	Continental	1 3⁄16 in	**55CM02**	—	—	—	—
			Continental	1 3⁄16 in	**55CM05**	⅞ in	**55CM47**	⅞ in	**55CM95**
			Continental	1 3⁄16 in	**55CM08**	⅞ in	**55CM50**	⅞ in	**55CM98**
			Continental	1 3⁄16 in	**55CM11**	⅞ in	**55CM53**	⅞ in	**55CN02**
			Continental	—	—	⅞ in	**55CM56**	⅞ in	**55CN05**
	10 ft		Continental	1 3⁄16 in	**55CM03**	⅞ in	**55CM48**	⅞ in	**55CM96**
			Continental	1 3⁄16 in	**55CM06**	⅞ in	**55CM51**	⅞ in	**55CM99**
			Continental	1 3⁄16 in	**55CM09**	⅞ in	**55CM54**	⅞ in	**55CN03**
			Continental	1 3⁄16 in	**55CM12**	⅞ in	**55CM57**	⅞ in	**55CN06**
	15 ft		Continental	1 3⁄16 in	**55CM04**	⅞ in	**55CM49**	⅞ in	**55CM97**
			Continental	1 3⁄16 in	**55CM07**	⅞ in	**55CM52**	⅞ in	**55CN01**
			Continental	1 3⁄16 in	**55CM10**	⅞ in	**55CM55**	⅞ in	**55CN04**
			Continental	1 3⁄16 in	**55CM13**	⅞ in	**55CM58**	⅞ in	**55CN07**
	25 ft		Speedaire	¾ in	**3JT73**	—	—	—	—
	50 ft		Speedaire	¾ in	**3JT75**	—	—	—	—
	100 ft		Continental	1 3⁄16 in	**52TV35**	1 3⁄16 in	**52TV39**	1 3⁄16 in	**52TV43**
¾ in	5 ft	¾ in	Continental	1 ⅛ in	**55CM14**	—	—	—	—
			Continental	1 ⅛ in	**55CM17**	1 ⅛ in	**55CM59**	1 ⅛ in	**55CN08**
			Continental	1 ⅛ in	**55CM20**	1 ⅛ in	**55CM62**	1 ⅛ in	**55CN11**
			Continental	—	—	1 ⅛ in	**55CM65**	1 ⅛ in	**55CN14**
	10 ft		Continental	1 ⅛ in	**55CM15**	1 ⅛ in	**55CM60**	1 ⅛ in	**55CN09**
			Continental	1 ⅛ in	**55CM18**	1 ⅛ in	**55CM63**	1 ⅛ in	**55CN12**
			Continental	1 ⅛ in	**55CM21**	1 ⅛ in	**55CM66**	1 ⅛ in	**55CN15**
	15 ft		Continental	1 ⅛ in	**55CM16**	1 ⅛ in	**55CM61**	1 ⅛ in	**55CN10**
			Continental	1 ⅛ in	**55CM19**	1 ⅛ in	**55CM64**	1 ⅛ in	**55CN13**
			Continental	1 ⅛ in	**55CM22**	1 ⅛ in	**55CM67**	1 ⅛ in	**55CN16**
	25 ft		Speedaire	1 ⅛ in	**3JT78**	—	—	—	—
	50 ft		Speedaire	1 ⅛ in	**3JT79**	—	—	—	—
	100 ft		Continental	1 ⅛ in	**52TV36**	1 ⅛ in	**52TV40**	1 ⅛ in	**52TV44**
1 in	25 ft	1 in	Continental	1 7⁄16 in	**52ZX56**	—	—	—	—
	50 ft		Continental	1 7⁄16 in	**52ZX57**	—	—	—	—
	100 ft		Continental	1 7⁄16 in	**52ZX58**	—	—	—	—
Coupled Assembly, Synthetic Rubber									
⅜ in	100 ft	¼ in	Speedaire	—	—	1 1⁄16 in	**411F13**	—	—
			Speedaire	—	—	—	—	1 1⁄16 in	**411F14**

SPEEDAIRE

Nitrile Air Hose Assemblies



Coupled Assembly No. 6Z788

- Temp. range: -20° to 210°F
- 4:1 safety factor
- 500-ft. hose length can be made from 1 or 2 pieces of varying lengths
- Reinforcement: synthetic yarn
- Brass couplers

Use with air, water, and mild chemicals in low-pressure industrial, construction, and agricultural applications.

Inside Dia.	Hose Length	Fitting Size	RED 250 PSI Outside Dia.	RED 250 PSI Item No.	YELLOW 300 PSI Outside Dia.	YELLOW 300 PSI Item No.
Coupled Assembly, Nitrile						
¼"	25 ft.	¼"	0.500"	**1Z666**	0.543"	**4XR48**
	50 ft.	¼"	0.500"	**2Z010**	0.543"	**4XR49**
⅜"	25 ft.	¼"	0.687"	**6Z787**	0.687"	**4XR50**
	25 ft.	⅜"	0.687"	**4Z898**	0.687"	**4XR53**
	50 ft.	¼"	0.687"	**6Z788**	0.687"	**4XR51**
	50 ft.	⅜"	0.687"	**4Z899**	0.687"	**4XR54**
½"	25 ft.	½"	0.812"	**6Z789**	0.858"	**4XR55**
	50 ft.	½"	0.812"	**5Z331**	0.858"	**4XR57**
¾"	25 ft.	¾"	1.125"	**5Z332**	1.189"	**4XR59**
	50 ft.	¾"	1.125"	**5Z333**	1.189"	**4XR60**

Continental ContiTech

Gorilla™ Premium Air Hose



No. 3JT55

- Max. pressure: 500 psi
- Temp. range:-20° to 210°F
- 4:1 safety factor

Reinforced with Flexten® fiber yarn to resist bending and pressure stresses. Yellow Carbryn® synthetic rubber cover is nonconductive and has high abrasion resistance. Assemblies have steel (hydraulic type) couplings. Tube is made with innovative oil-resistant ChemiGum® synthetic rubber.

Hose I.D.	Fitting Size	Hose Outside Dia.	5 ft Item No.	10 ft Item No.	15 ft Item No.	25 ft Item No.	50 ft Item No.
½ in	½ in x ½ in	⅞ in	**55CN23**	**55CN24**	**55CN25**	**3JT59**	**3JT60**
			55CN26	**55CN27**	**55CN28**	—	—
¼ in	¼ in x ¼ in	⅝ in	—	—	—	**3JT55**	**3JT56**
¾ in	¾ in x ¾ in	1 ⅛ in	**55CN29**	**55CN30**	**55CN31**	—	—
		1 3⁄16 in	—	—	—	**3JT61**	**3JT62**
⅜ in	¼ in x ¼ in	¾ in	**55CN17**	**55CN18**	**55CN19**	—	—
	⅜ in x ⅜ in		**55CN20**	**55CN21**	**55CN22**	—	—
			—	—	—	**3JT57**	**3JT58**



No. 5W021

Continental ContiTech SPEEDAIRE

General-Duty Rubber Air and Multipurpose Hose Nitrile Bulk Air Hose

- Temp. range: -20° to 210°F
- 4:1 safety factor
- 500-ft. hose length can be made from 1 or 2 pieces of varying lengths

Constructed with a nitrile oil-resistant tube and cover. Hose is nonconductive. Suitable for use with air, water, and mild chemicals.

Inside Dia.	Hose Color	Max. Working Pressure @ 70°F	Hose Length	Outside Dia.	Item No.
Bulk Hose					
¼ in	Blue	300 psi	1,000 ft	0.500"	**10A239**
	Red	250 psi	250 ft	0.500"	**5W019**
			500 ft	0.500"	**10A216**
	Yellow	300 psi	250 ft	0.543"	**4XR47**
			500 ft	0.543"	**10A217**
⅜ in	Red	250 psi	250 ft	0.687"	**5W020**
			500 ft	0.653"	**10A218**
	Yellow	300 psi	250 ft	0.687"	**4XR52**
			500 ft	0.687"	**10A219**
		500 psi	25 ft	0.625 in	**55CK35**
			50 ft	0.625 in	**55CK36**
½ in	Red	250 psi	250 ft	0.840"	**5W021**
			500 ft	0.812"	**10A250**
	Yellow	300 psi	250 ft	0.858"	**4XR56**
			500 ft	0.856"	**10A251**
		500 psi	25 ft	0.875 in	**55CK37**
			50 ft	0.875 in	**55CK38**
¾ in	Red	250 psi	150 ft	1.125"	**5W731**
			500 ft	1.125"	**10A220**
	Yellow	300 psi	150 ft	1.189"	**4XR58**
			500 ft	1.189"	**10A221**
		500 psi	25 ft	1.1875 in	**55CK39**
			50 ft	1.1875 in	**55CK40**
1 in	Red	250 psi	150 ft	1.500"	**5W732**
	Yellow	300 psi	150 ft	1.500"	**4XR61**
		500 psi	25 ft	1.5 in	**55CK41**
			50 ft	1.5 in	**55CK42**



No. 50JD82

Continental
ContiTech

PVC Air Hose Assemblies

- Temp. Range: -10° to 158° F, except 55CP66 40° to 158° F
- 4:1 safety factor

PVC (polyvinyl chloride) air hose assemblies with PVC covers are used for carrying air to tools and equipment in industrial, construction, and agricultural hand-spraying applications.

Hose I.D.	Hose Length	Fitting Type	Blue Item No.	Gray Item No.	Red Item No.	Yellow Item No.
Coupled Assembly, Max. 250 PSI						
¾ in	3 ft	MNPT x MNPT	50JD82	50JF57	50JH12	50JJ86
		FNPT x MNPT	50JD91	50JF66	50JH21	50JJ95
		FNPT x FNPT	50JE01	50JF75	50JH30	50JK05
		MNPT x FNPT	50JE10	50JF84	50JH39	50JK14
	5 ft	MNPT x MNPT	50JD83	50JF58	50JH13	50JJ87
		FNPT x MNPT	50JD92	50JF67	50JH22	50JJ96
		FNPT x FNPT	50JE02	50JF76	50JH31	50JK06
		MNPT x FNPT	50JE11	50JF85	50JH40	50JK15
	10 ft	MNPT x MNPT	50JD84	50JF59	50JH14	50JJ88
		FNPT x MNPT	50JD93	50JF68	50JH23	50JJ97
		FNPT x FNPT	50JE03	50JF77	50JH32	50JK07
		MNPT x FNPT	50JE12	50JF86	50JH41	50JK16
	15 ft	MNPT x MNPT	50JD85	50JF60	50JH15	50JJ89
		FNPT x MNPT	50JD94	50JF69	50JH24	50JJ98
		FNPT x FNPT	50JE04	50JF78	50JH33	50JK08
		MNPT x FNPT	50JE13	50JF87	50JH42	50JK17
	20 ft	MNPT x MNPT	50JD86	50JF61	50JH16	50JJ90
		FNPT x MNPT	50JD95	50JF70	50JH25	50JJ99
		FNPT x FNPT	50JE05	50JF79	50JH34	50JK09
		MNPT x FNPT	50JE14	50JF88	50JH43	50JK18
	25 ft	MNPT x MNPT	50JD87	50JF62	50JH17	50JJ91
		FNPT x MNPT	50JD96	50JF71	50JH26	50JK01
		FNPT x FNPT	50JE06	50JF80	50JH35	50JK10
		MNPT x FNPT	50JE15	50JF89	50JH44	50JK19
	50 ft	MNPT x MNPT	50JD88	50JF63	50JH18	50JJ92
		FNPT x MNPT	50JD97	50JF72	50JH27	50JK02
		FNPT x FNPT	50JE07	50JF81	50JH36	50JK11
		MNPT x FNPT	50JE16	50JF90	50JH45	50JK20
	75 ft	MNPT x MNPT	50JD89	50JF64	50JH19	50JJ93
		FNPT x MNPT	50JD98	50JF73	50JH28	50JK03
		FNPT x FNPT	50JE08	50JF82	50JH37	50JK12
		MNPT x FNPT	50JE17	50JF91	50JH46	50JK21
	100 ft	MNPT x MNPT	50JD81	50JF56	50JH11	50JJ85
		FNPT x MNPT	50JD90	50JF65	—	50JJ94
		FNPT x FNPT	50JD99	50JF74	50JH29	50JK04
		MNPT x FNPT	50JE09	50JF83	50JH38	50JK13
1 in	3 ft	MNPT x MNPT	50JE19	50JF93	50JH48	50JK23
	5 ft		50JE20	50JF94	50JH49	50JK24
	10 ft		50JE21	50JF95	50JH50	50JK25
	15 ft		50JE22	50JF96	50JH51	50JK26
	20 ft		50JE23	50JF97	50JH52	50JK27
	25 ft		50JE24	50JF98	50JH53	50JK28
	50 ft		50JE25	50JF99	50JH54	50JK29
	75 ft		50JE26	50JG01	50JH55	50JK30
	100 ft		50JE18	50JF92	50JH47	50JK22

Push-On Hose
No. 3JT64



Continental
ContiTech

SPEEDAIRE

EPDM Bulk Air Hose

Constructed with a nitrile oil-resistant tube and cover. Hose is nonconductive. Suitable for use with air, water, and mild chemicals.

Inside Dia.	Hose Length	Black Max. Working Pressure @ 70°F	Black Outside Dia.	Black Item No.	Red Max. Working Pressure @ 70°F	Red Outside Dia.	Red Item No.	Yellow Max. Working Pressure @ 70°F	Yellow Outside Dia.	Yellow Item No.
EPDM Bulk Air Hoses with EPDM Cover										
¼ in	50 ft	200 psi	0.5 in	55CJ95	250 psi	0.5 in	55CK09	300 psi	0.5 in	55CK22
	100 ft	200 psi	0.5 in	55CJ96	250 psi	0.5 in	55CK10	300 psi	0.5 in	55CK23
	250 ft	200 psi	—	3JT64	—	—	—	—	—	—
	500 ft	200 psi	—	3JT66	—	—	—	—	—	—
⅜ in	25 ft	200 psi	0.6875 in	55CJ97	250 psi	0.6875 in	55CK11	300 psi	0.6875 in	55CK24
	50 ft	200 psi	0.6875 in	55CJ98	250 psi	0.6875 in	55CK12	300 psi	0.6875 in	55CK25
	100 ft	200 psi	0.6875 in	55CJ99	250 psi	0.6875 in	55CK13	300 psi	0.6875 in	55CK26
	250 ft	200 psi	—	3JT67	—	—	—	—	—	—
	500 ft	200 psi	—	3JT70	—	—	—	—	—	—
½ in	25 ft	200 psi	0.8125 in	55CK01	250 psi	0.875 in	55CK14	300 psi	0.875 in	55CK27
	50 ft	200 psi	0.8125 in	55CK02	250 psi	0.875 in	55CK15	300 psi	0.875 in	55CK28
	100 ft	200 psi	0.8125 in	55CK03	250 psi	0.875 in	55CK16	300 psi	0.875 in	55CK29
	250 ft	200 psi	—	3JT74	—	—	—	—	—	—
	500 ft	200 psi	—	3JT76	—	—	—	—	—	—
¾ in	25 ft	200 psi	1.125 in	55CK04	250 psi	1.125 in	55CK17	300 psi	1.1875 in	55CK30
	50 ft	200 psi	1.125 in	55CK05	250 psi	1.125 in	55CK18	300 psi	1.1875 in	55CK31
	100 ft	200 psi	1.125 in	55CK06	250 psi	1.125 in	55CK19	300 psi	1.1875 in	55CK32
	150 ft	200 psi	—	3JT77	—	—	—	—	—	—
	500 ft	200 psi	—	3JT80	—	—	—	—	—	—
1 in	50 ft	200 psi	1.4375 in	55CK07	300 psi	1.5 in	55CK20	300 psi	1.5 in	55CK33
	100 ft	200 psi	1.4375 in	55CK08	300 psi	1.5 in	55CK21	300 psi	1.5 in	55CK34
	150 ft	200 psi	—	3JT81	—	—	—	—	—	—
	450 ft	200 psi	—	3JT82	—	—	—	—	—	—



No. 5W038

Continental
ContiTech

Carboxylated Nitrile Bulk Air Hose

- Max. pressure: 500 psi
- Temp. range: -20° to 210°F
- 4:1 safety factor

Reinforced with Flexten® fiber yarn to resist bending and pressure stresses. Yellow Carbryn® synthetic rubber cover is nonconductive and has high abrasion resistance. Assemblies have steel (hydraulic type) couplings. Tube is made with innovative oil-resistant ChemiGum® synthetic rubber.

Inside Dia.	Outside Dia.	Hose Length	Item No.
Bulk Hose			
¼ in	0.625"	100 FT	5W035
¼ in	0.625"	500 FT	4XR44
⅜ in	0.750"	100 FT	5W036
⅜ in	0.750"	500 FT	4XR45
½ in	0.906"	100 FT	5W037
½ in	0.906"	500 FT	4XR46
¾ in	1.188"	100 FT	5W038
1 in	1.47"	450 FT	41ND42
1 in	1.500"	100 FT	1ZLJ6
1 ¼ in	1.812"	100 FT	1ZLJ7
1 ½ in	2.000"	100 FT	1ZLJ8
2 in	2.625"	100 FT	1ZLJ9

EATON

Royalflex® Water Suction Hose


No. 45CW86

- Max. temp.: 180°F

Thermoplastic vinyl nitrile tube with polyester braid and helical wire reinforcement is ideal for heavy water applications including the transfer of water, liquid diluted fertilizers, and pesticides. Hose is also suitable for suction and discharge of water and slurries.

Inside Dia.	Fitting Size	Outside Dia.	Length	Max. Pressure	Vacuum Rating	Item No.
MNPSM x FNPSM						
1½"	1¼" x 1¼"	2"	20 ft.	1200 psi	30" Hg	**45CW91**
2"	2" x 2"	2.5"	20 ft.	1200 psi	30" Hg	**45CW92**
2½"	2½" x 2½"	3"	20 ft.	1200 psi	30" Hg	**45CW93**
3"	3" x 3"	3.5"	20 ft.	1000 psi	30" Hg	**45CW94**
4"	4" x 4"	4.5"	20 ft.	600 psi	30" Hg	**45CW95**
Cam and Groove C x Cam and Groove E						
1½"	1¼" x 1¼"	2"	20 ft.	1200 psi	30" Hg	**45CW86**
2"	2" x 2"	2.5"	20 ft.	1200 psi	30" Hg	**45CW87**
2½"	2½" x 2½"	3"	20 ft.	1200 psi	30" Hg	**45CW88**
3"	3" x 3"	3.5"	20 ft.	1000 psi	30" Hg	**45CW89**
4"	4" x 4"	4.5"	20 ft.	600 psi	30" Hg	**45CW90**
Bulk Hose without Fittings						
1½"	—	2"	100 ft.	1200 psi	30" Hg	**45CW77**
2"	—	2.5"	50 ft.	1200 psi	30" Hg	**45CW78**
2"	—	2.5"	100 ft.	1200 psi	30" Hg	**45CW79**
2½"	—	3"	50 ft.	1200 psi	30" Hg	**45CW80**
2½"	—	3"	100 ft.	300 psi	30" Hg	**45CW81**
3"	—	3.5"	50 ft.	1000 psi	30" Hg	**45CW82**
3"	—	3.5"	100 ft.	1000 psi	30" Hg	**45CW83**
4"	—	4.5"	50 ft.	600 psi	30" Hg	**45CW84**
4"	—	4.5"	100 ft.	600 psi	30" Hg	**45CW85**

GRAINGER APPROVED

Marine Exhaust Water Hose


No. 45DU77

- Temp. range: -40° to 250°F

This soft wall hose can be used as a straight connection in a wide range of water transfer and discharge applications. Constructed from black EPDM tubing and cover with reinforced polyester cord for added strength. The extreme temperature range makes hose ideal for marine wet exhaust systems. Various sizes allow a tight fit over standard pipe permitting secure pipe-to-pipe connections and vibration absorption. Meet SAE J2006R1 standard.

Inside Dia.	Length	Outside Dia.	Max. Pressure	Item No.
1½"	3 ft.	1 15/16"	250 psi	**45DU77**
	25 ft.	1 15/16"	250 psi	**45DU78**
1⅞"	3 ft.	2 15/64"	250 psi	**45DU79**
	25 ft.	2 15/64"	250 psi	**45DU80**
2"	3 ft.	2 7/16"	200 psi	**45DU81**
	25 ft.	2 7/16"	200 psi	**45DU82**
2⅜"	3 ft.	2 15/16"	200 psi	**45DU83**
	25 ft.	2 15/16"	200 psi	**45DU84**
2½"	3 ft.	3 1/16"	150 psi	**45DU85**
	25 ft.	3 1/16"	150 psi	**45DU86**
3½"	3 ft.	4 1/16"	125 psi	**45DU87**
	25 ft.	4 1/16"	125 psi	**45DU88**
4½"	3 ft.	5⅛"	100 psi	**45DU89**
	25 ft.	5⅛"	100 psi	**45DU90**


No. 4XV55

GRAINGER APPROVED

Mine Spray and Water Hose

- Max. pressure: 1000 psi
- Temp. range: 0° to 200°F
- 4:1 safety factor
- Wire braid reinforcement
- Sold in 50-ft. hose lengths

Suitable for washdown service. Nitrile tube with vinyl nitrile cover is flame-, oil-, and abrasion-resistant. Yellow color hose for easy visibility.

Inside Dia.	Fitting Size	Outside Dia.	Item No.
Coupled Male NPT x Male NPT			
¾"	¾"	1.14	**4XV53**
1"	1"	1.45	**4XV55**
1½"	1½" (M)NPT	1.98	**45DV23**
2"	2" (M)NPT	2.55	**45DV24**
Coupled Male x Female Ground Joint			
¾"	¾" x ¾"	1.14	**1ZNC5**
1"	1" x 1"	1.45	**1ZNC6**
1½"	1½" x 1½"	1.98	**1ZNC7**
2"	2" x 2"	2.55	**1ZNC8**
Hose without Fittings			
¾"		1.14	**1ZLV6**
1"		1.45	**1ZLV7**
1½"		1.98	**1ZLV8**
2"		2.55	**1ZLV9**


No. 4XR35

GRAINGER APPROVED

Agricultural/Lawn Water Spray Hose

- Max. pressure: 600 psi
- Temp. range: 0° to 160°F

Nonslip surface, PVC ribbed cover, bright orange color. Use with xylene up to 10% concentration. Constructed from durable PVC tubing. Meet RMA Class B standard.

Inside Dia.	Length	Outside Dia.	Bend Radius	Item No.
⅜"	300 ft.	11/16"	4 13/16"	**4XR35**
½"	300 ft.	25/32"	5 7/64"	**4XR36**
¾"	300 ft.	1 7/64"	8 13/32"	**4XR37**

GRAINGER APPROVED

Washdown Water Hose

- Max. pressure: 300 psi

Efficiently and hygienically handles equipment cleaning in food processing plants, dairies, paper mills, and other industrial operations.

White—EPDM tube with a white EPDM cover. No. 2P570 has tapered nozzle at 1 end and a ¾" long shank brass female fitting, double-banded, on the other end. Garden hose threads.

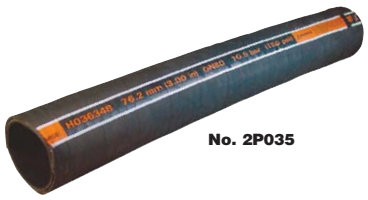
White with Antimicrobial—Synthetic rubber hose has a white EPDM rubber cover with antimicrobial protection and spiral textile reinforcement. Resists oils and animal fats found in food processing plants, dairies, canneries, and creameries.

Yellow with Antimicrobial—Carbryn®-covered yellow synthetic rubber resists oil and abrasion; provides max. protection against oil and animal fats. Outside cover incorporates antimicrobial protection.


No. 4XR42

Hose Inside Dia. (in.)	Hose Length (ft.)	Outside Dia.	Fittings	Item No.
GA, Food Grade, Yellow				
⅜	50	22/32"	⅜" (M)NPT x ⅜" (M)NPT S	**1ZLT8**
	100	22/32"	⅜" (M)NPT x ⅜" (M)NPT S	**1ZLT9**
White, 300 psi, -40 to 200°F				
½	50	0.84	¾" MxF GHT Brass	**3ATL7**
¾	50	1.17	¾" GHT Brass	**2P570**
	50	1.17	¾" MxF GHT Brass	**3ATL8**
1	50	1.47	1" MxF NPSH Brass	**3ATL9**
White, with Antimicrobial, 300 psi, -40 to 200°F				
½	50	21/32"	¾" M x F GHT	**32W234**
¾	50	1 11/64"	¾" M x F GHT	**32W235**
1	50	1 15/32"	1" M x F NPSH	**32W236**

Hose Inside Dia. (in.)	Hose Length (ft.)	Hose Outside Dia. (in.)	Item No.
Bulk Hose, White, 300 psi, -40 to 200°F			
1	50	1.48	**4XR43**
Bulk Hose, White, 300 psi, -40 to 205°F			
½	50	0.838	**4XR42**
	500	1	**3DVE3**
¾	500	1.17	**3DVE4**
1	450	1.47	**3DVE5**
Bulk Hose, White, with Antimicrobial, 300 psi, -40 to 200°F			
½	50	.84	**32W259**
	100	.84	**32W260**
¾	50	1.17	**32W261**
	100	1.17	**32W262**
1	50	1.47	**32W263**
	100	1.47	**32W264**
Bulk Hose, Yellow, with Antimicrobial, 300 psi, -20 to 200°F			
½	50	0.90	**1DKL5**
⅝	50	1.06	**1DKL6**
¾	50	1.25	**1DKL7**
1	50	1½	**1DKL8**



No. 2P035

EATON

Multifuel Transfer Hose

- Max. pressure: 150 psi
- Temp. range: -40° to 180°F
- Brass fittings

Vinyl nitrile hose and cover are designed to handle a wide variety of petroleum-based fuels including diesel, gasoline, and kerosene. Coupled with corrosion-resistant brass fittings and reinforced with multi-ply fiber cords and a dual helix with static wire.

Inside Dia.	Fitting Size (in.)	HOSE WITH BRASS NPSM FITTINGS Length	HOSE WITH BRASS NPSM FITTINGS Item No.	BULK HOSE, WITHOUT FITTINGS Length	BULK HOSE, WITHOUT FITTINGS Item No.
1"	1 in x 1 in	25 ft.	44ZE96	100 ft.	44ZF53
1½"	1½ in x 1½ in	25 ft.	44ZE93	100 ft.	45GG14
2"	2 in x 2 in	25 ft.	44ZF11	100 ft.	44ZF08
3"	3 in x 3 in	25 ft.	44ZF36	100 ft.	44ZF49


No. 2P035

GA GRAINGER APPROVED

Steam Hose

- Max. pressure: 250 psi
- Temp. range: 0° to 450°F
- Reinforced double-wire braid (½" hose has single-wire braid)

Designed for cleaning, heat control, fire prevention, purging, thawing, blow-out service, steam pumps, and hoists in open-end or permanent installation operations. Cover and tube are synthetic rubber. Assembled hose fittings are clamped. Crimp-coupled hoses offer a smooth grip for operator comfort. Zinc-plated steel female coupling spuds are available separately.

Note: Nos. 4KT61 and 4KT62 include a female wing nut. A female or male spud may be needed to complete the assembly. Bulk hose can use fittings and clamps on page 2531.

Inside Dia.	Length	Fitting Size	RED Item No.	BLACK Item No.
250 psi, 2 Bolt				
½ in	25 ft	½ in x ½ in	—	2P035
	50 ft	½ in x ½ in	—	2P036
	50 ft	½ in x ½ in	—	4KT61
¾ in	25 ft	¾ in x ¾ in	—	2P571
	50 ft	¾ in x ¾ in	—	2P572
	50 ft	¾ in x ¾ in	—	4KT62
250 psi, 2 Crimp				
¾ in	25 ft	¾ in x ¾ in	1DKN9	1DKP5
	50 ft	¾ in x ¾ in	1DKP1	1DKP6
	50 ft	¾ in x ¾ in	1DKP2	1DKP7
1 in	25 ft	1 in x 1 in	1DKP3	1DKP8
	50 ft	1 in x 1 in	1DKP4	1DKP9
250 psi, Without Fittings				
½ in	50 ft	—	1DKN6	4KT58
¾ in	50 ft	—	1DKN7	4KT59
1 in	50 ft	—	1DKN8	4KT60

Additional hose sizes available on Grainger.com®.


No. 44ZE75

Gasoline/Fuel Transfer Hose

Thermoid®

- Aluminum fittings

Inside Dia.	Length	Max. Working Pressure @ 70°F	Fitting Size	Item No.
Pumpflex® I, Softwall				
(M)NPT				
1"	8 ft.		1"	45CW98
MNPT x MNPT				
¾"	8 ft.	200 psi	¾ in x ¾ in	44ZG40
	10 ft.	200 psi	¾ in x ¾ in	44ZF93
	12 ft.	200 psi	¾ in x ¾ in	44ZE79
	14 ft.	200 psi	¾ in x ¾ in	44ZE88
	17 ft.	200 psi	¾ in x ¾ in	44ZF20
	20 ft.	200 psi	¾ in x ¾ in	44ZF56
1"	10 ft.	150 psi	1 in x 1 in	44ZF06
	20 ft.	150 psi	1 in x 1 in	44ZE95
Pumpflex® II, Hardwall				
(M)MNPT x MNPT				
⅝"	17 ft.	200 psi	¾ in x ¾ in	44ZF60
MNPT x MNPT				
⅝"	10 ft.	200 psi	¾ in x ¾ in	44ZF38
	20 ft.	200 psi	¾ in x ¾ in	44ZF51
¾"	10 ft.	200 psi	¾ in x ¾ in	44ZG20
	12 ft.	200 psi	¾ in x ¾ in	44ZF63
	14 ft.	200 psi	¾ in x ¾ in	44ZE75
	20 ft.	200 psi	¾ in x ¾ in	44ZF35
	12 ft.	60 psi	¾ in x ¾ in	44ZE87


No. 45CV37

EATON

Nitrile Blend Oil and Gas Exploration Hose Assemblies with Corrugated Synthetic Rubber Cover

- Temp. range: -22° to 176°F
- Max. working pressure: 150 psi
- Cam and Groove C x Cam and Groove E Fitting
- Hose length: 20 ft.

Inside Dia.	Fitting Size	Item No.
1½"	1½ in x 1½ in	45CV37
2½"	2½ in x 2½ in	45CV39
2"	2 in x 2 in	45CV38
3"	3 in x 3 in	45CV40
4"	4 in x 4 in	45CV41

Stainless Steel Fuel Hose Assemblies for Natural Gas

PENFLEX

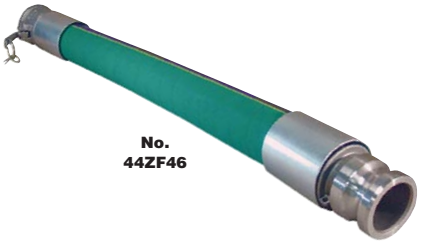
- Max. pressure: 350 psi
- Max. temp.: 1500°F

321 stainless steel hose material, with a 304 stainless steel braid. Fittings are permanently welded to the metal hose. Commonly used for natural gas and propane applications in the petrochemical industry, and in mills and refineries. Meet CSA and CGA CR96-001.


No. 4DXW8

Pipe Size (in.)	Dia. (in.)	FJIC Size (in.)	Static Min. Bend Radius (in.)	Length (In.) 12 Item No.	18 Item No.	24 Item No.	36 Item No.	48 Item No.	60 Item No.
MNPT x F JIC									
½-14	½	¾-16	1.5	4DXW8	4DXW9	4DXX1	4DXX2	4DXX3	4DXX4
¾-14	¾	1 1/16-12	2.25	4DXX5	4DXX6	4DXX7	4DXX8	4DXX9	4DXY1
1 -11-1/2	1	1 5/16-12	2.75	4DXY2	4DXY3	4DXY4	4DXY5	4DXY6	4DXY7
1¼ -11-1/2	1¼	1⅝-12	3.5	4DXY8	4DXY9	4DXZ1	4DXZ2	4DXZ3	4DXZ4
1½ -11-1/2	1½	1⅞-12	4	4DXZ5	4DXZ6	4DXZ7	4DXZ8	4DXZ9	4DYA1
2 -11-1/2	2	2½-12	5	4DYA2	4DYA3	4DYA4	4DYA5	4DYA6	4DYA7

Pipe Size (in.)	Dia. (in.)	FJIC Size (in.)	Static Min. Bend Radius (in.)	Length (In.) 12 Item No.	18 Item No.	24 Item No.	36 Item No.	48 Item No.	60 Item No.
MNPT x MNPT									
½-14	½	—	1.5	4DYA8	4DYA9	4DYC1	4DYC2	4DYC3	4DYC4
¾-14	¾	—	2.25	4DYC5	4DYC6	4DYC7	4DYC8	4DYC9	4DYD1
1 -11-1/2	1	—	2.75	4DYD2	4DYD3	4DYD4	4DYD5	4DYD6	4DYD7
1¼ -11-1/2	1¼	—	3.5	4DYD8	4DYD9	4DYE1	4DYE2	4DYE3	4DYE4
1½ -11-1/2	1½	—	4	4DYE5	4DYE6	4DYE7	4DYE8	4DYE9	4DYF1
2 -11-1/2	2	—	5	4DYF2	4DYF3	4DYF4	4DYF5	4DYF6	4DYF7



Chemical Hose

EATON

- 4:1 safety factor

CHEMFLEX

- Max. pressure: 500 psi for Nos. 44ZF07, 44ZF59, 44ZF87, 44ZF82; 450 psi for Nos. 44ZF23, 44ZE84; 300 psi for Nos. 44ZG01 and 44ZG21
- Temp range: -40° to 300°F continuous
- Blue color

PTFE constructed hose with EPDM cover is chemical-resistant and handles a broad range of temperatures. For use in the cosmetics, pharmaceutical, chemical and food industry where chemical compatibility is critical.

CHEMCAT™

- Max. pressure: 300 psi
- Temp range: -40° to 250°F
- Green color

Ultra-High Molecular Weight Polyethylene (UHMW-PE) tube handles acids, chemicals, solvents, and petroleum products. Green EPDM cover helps protect the fiber reinforcement and helix wires from harsh industrial environments.

Inside Dia.	Bend Radius	Fittings	10 FT. Item No.	20 FT. Item No.
Chemflex				
½"	4"	½" Stainless Steel, Cam and Groove	44ZF07	44ZF87
1"	6"	1" Stainless Steel, Cam and Groove	44ZF23	44ZE84
¾"	4.5"	¾" Stainless Steel, Cam and Groove	44ZE82	44ZF59
1½"	9"	1½" Stainless Steel, Cam and Groove	44ZG21	44ZG01
Chemcat™				
1½"	7.5"	1½" Stainless Steel, Cam and Groove	44ZE77	44ZF19
3"	9"	3" Stainless Steel, Cam and Groove	44ZF40	44ZE78
2"	8"	2" Stainless Steel, Cam and Groove	44ZF98	44ZF46
2½"	8"	2½" Stainless Steel, Cam and Groove	44ZF50	44ZG34
1"	5.5"	1" Stainless Steel, Cam and Groove	44ZF90	44ZG28



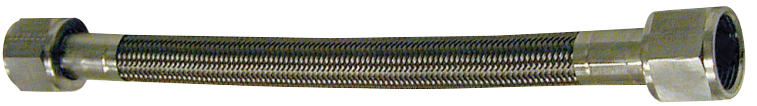
Sandblast Hose

GA GRAINGER APPROVED

- Max. pressure: 150 psi
- Temp. range: -25° to 185°F
- Reinforced 4-ply tire cord, except Nos. 45DU91 and 45DU92 have 2-ply tire cord
- Universal sandblast couplings

Reinforced natural rubber blend hose with synthetic rubber handles sand, steel shot, and other highly abrasive materials. The smooth I.D. ensures unrestricted airflow in abrasive blast applications.

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	25 FT. Item No.	50 FT. Item No.
½	1.06	45DU91	45DU92
¾	1.5	45DU93	45DU94
1	1.89	45DU95	45DU96
1½	2.36	45DU97	45DU98



GA GRAINGER APPROVED

PTFE Chemical Hose Assemblies with JIC

- Temp. range: -65° to 450°F
- 4:1 safety factor

Pharmaceutical grade assemblies have 304 stainless steel braided PTFE tubing and come with brass or 300 series stainless steel female JIC connector ends. Can be used in food handling plants, as well as for chemical handling, hydraulics, air lines, and water applications. Meet SAE 100R14 and FDA 41 standard.

Female JIC Size (in.)	Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Dash Size	Max. Operating (psi)	Hose Length (in.) 12 Item No.	18 Item No.	24 Item No.	36 Item No.	48 Item No.	60 Item No.
Brass Fittings										
7/16-20	3/16	0.312	4	3000	1PCL6	1PCL7	1PCL8	1PCL9	1PCN1	1PCN2
9/16-18	5/16	0.445	6	2500	1PCN3	1PCN4	1PCN5	1PCN6	1PCN7	1PCN8
¾-16	13/32	0.549	8	2000	1PCN9	1PCP1	1PCP2	1PCP3	1PCP4	1PCP5
⅞-14	½	0.648	10	1500	1PCP6	1PCP7	1PCP8	1PCP9	1PCR1	1PCR2
Stainless Steel Fittings										
7/16-20	3/16	0.312	4	3000	1PBK1	1PBK2	1PCG2	1PCG4	1PCG6	1PCG8
9/16-18	5/16	0.445	6	2500	1PCH1	1PCH3	1PCH5	1PCH7	1PCH9	1PCJ2
¾-16	13/32	0.549	8	2000	1PCJ4	1PCJ6	1PCJ8	1PCK1	1PCK3	1PCK5
⅞-14	½	0.648	10	1500	1PCK7	1PCK9	1PCL2	1PCL3	1PCL4	1PCL5



Continental ContiTech EATON

Material Handling Hose

PVC/Thermoplastic—Handles abrasive materials including cement, fertilizers, fly ash, glass, gravel, metals, plastic pellets, rock salt, sand, and slurries where material may have some moisture. Meet RMA Class B standard.

Thermoplastic—For use in the dry pneumatic conveying of highly abrasive solids.

Dry Bulk—Ideal for transferring dry abrasive materials such as bottle caps and cleaning agents. Suitable for use in coal plants, dry cement operations, in-plant transfer, and well service applications.

Hot Air—For use in construction, hot air blowing, in plant, and non-oily applications. Can be use for dry cement and tank truck delivery operations.

Inside Dia.	Length	Outside Dia.	Max. Pressure	Color	Brand	Item No.	
Bulk Hose, PVC/Thermoplastic Polyurethane Tube, PVC/Nitrile/Polyurethane Cover, Nonconductive, -30 to 158°F							
1½"	25 ft.	1 29/32"	40 psi	Black	Continental	1ZLH9	
2"	25 ft.	2½"	40 psi	Black	Continental	4XR65	
3"	25 ft.	3 49/64"	30 psi	Black	Continental	4XR66	
4"	25 ft.	4 55/64"	30 psi	Black	Continental	4XR67	
Bulk Hose, Thermoplastic Polyurethane Tube, PVC/Nitrile Cover, 0 to 158°F							
1½"	100 ft.	1 29/32"	50 psi	Blue	Continental	1ZLR5	
2"	100 ft.	2 45/64"	50 psi	Blue	Continental	1ZLR6	
3"	50 ft.	3 19/32"	40 psi	Blue	Continental	1ZLR7	
4"	50 ft.	4 51/64"	35 psi	Blue	Continental	1ZLR8	
Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F							
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	48RJ51	*
5"	20 ft.	5 43/64"	75 psi	Black	Eaton	48RJ52	*
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	48RJ53	*
5"	20 ft.	5 51/64"	75 psi	Black	Eaton	48RJ54	*
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	48RJ57	†
5"	20 ft.	5 43/64"	75 psi	Black	Eaton	48RJ58	†
	20 ft.	5 51/64"	75 psi	Black	Eaton	48RJ60	†
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	48RJ59	†
Bulk Hose, Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F							
4"	100 ft.	4 39/64"	75 psi	Black	Eaton	48RJ45	
5"	100 ft.	5 43/64"	75 psi	Black	Eaton	48RJ46	
4"	100 ft.	4 1/32"	75 psi	Black	Eaton	48RJ47	
5"	100 ft.	5 51/64"	75 psi	Black	Eaton	48RJ48	
Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F							
3"	20 ft.	3 9/16"	150 psi	Brown	Eaton	48RJ55	*
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ56	*
3"	20 ft.	3 9/16"	150 psi	Brown	Eaton	48RJ61	†
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ62	†
Bulk Hose, Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F							
3"	100 ft.	3 9/16"	150 psi	Brown	Eaton	48RJ49	
4"	100 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ50	

** Aluminum male x female cam & groove fitting type. † Aluminum female x female cam & groove fitting type.*



Continental
ContiTech

Nutriflo PVC Food & Beverage Hose Assemblies with Smooth PVC Cover

- Temp. range: -25º to 230º F
- Safety factor: 4:1

Nutriflo PVC (polyvinyl chloride) food and beverage hose assemblies have a smooth PVC cover and are suitable for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses can handle higher pressures than Nutriflex PVC food and beverage hoses with corrugated covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Item No.
Clear, PVC Coupled Assembly				
¾ in	3 ft	1 in	3 in	55CD16
	5 ft			55CD17
	8 ft			55CD18
	10 ft			55CD19
	15 ft			55CD20
	20 ft			55CD21
	25 ft			55CD22
1 in	3 ft	1 5⁄16 in	2 in	55CD72
				55CE01
	5 ft			55CD73
				55CE02
	8 ft			55CD74
				55CE03
	10 ft			55CD75
				55CE04
	15 ft			55CD76
				55CE05
	20 ft			55CD77
				55CE06
	25 ft			55CD78
				55CE07
	3 ft	1 ¼ in	5 in	55CD23
				55CD51
	5 ft			55CD24
				55CD52
	8 ft			55CD25
				55CD53
	10 ft			55CD26
				55CD54
	15 ft			55CD27
				55CD55
	20 ft			55CD28
				55CD56
	25 ft			55CD29
				55CD57
1 ½ in	3 ft	1 ⅞ in	4 in	55CD79
				55CE08
	5 ft			55CD80
				55CE09
	8 ft			55CD81
				55CE10
	10 ft			55CD82
				55CE11
	15 ft			55CD83
				55CE12
	20 ft			55CD84
				55CE13
	25 ft			55CD85
				55CE14
	3 ft	1 13⁄16 in	6 in	55CD30
				55CD58
	5 ft			55CD31
				55CD59
	8 ft			55CD32
				55CD60
	10 ft			55CD33
				55CD61
	15 ft			55CD34
				55CD62
	20 ft			55CD35
				55CD63
	25 ft			55CD36
				55CD64
2 in	3 ft	2 7⁄16 in	4 in	55CE15
				55CD86
	5 ft			55CE16
				55CD87
	8 ft			55CE17
				55CD88
	10 ft			55CD89
				55CE18
	15 ft			55CD90
				55CE19
	20 ft			55CD91
				55CE20
	25 ft			55CD92
				55CE21
	3 ft	2 3⁄8 in	8 in	55CD37
				55CD65
	5 ft			55CD38
				55CD66
	8 ft			55CD39
				55CD67
	10 ft			55CD40
				55CD68
	15 ft			55CD41
				55CD69
	20 ft			55CD42
				55CD70
	25 ft			55CD43
				55CD71
3 in	3 ft	3 9⁄16 in	7 in	55CD93
	5 ft			55CD94
	8 ft			55CD95
	10 ft			55CD96
	15 ft			55CD97
	20 ft			55CD98
	25 ft			55CD99
	3 ft	3 ½ in	12 in	55CD44
	5 ft			55CD45
	8 ft			55CD46
	10 ft			55CD47
	15 ft			55CD48
	20 ft			55CD49
	25 ft			55CD50

Nutriflo PVC Bulk Food & Beverage Hoses

Continental
ContiTech

No.
55AW09



- Safety factor: 3:1

Nutriflo PVC (polyvinyl chloride) bulk food and beverage hoses have a smooth PVC cover and are suitable for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses can handle higher pressures than Nutriflex PVC bulk food and beverage hoses with corrugated covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Item No.
Clear, PVC					
¾"	10 ft	1 in	3 in	120 psi	55AV87
	25 ft	1 in		120 psi	55AV88
	50 ft	1 in		120 psi	55AV89
1"	10 ft	1 ¼ in	5 in	106 psi	55AV90
	25 ft	1 ¼ in		106 psi	55AV91
	50 ft	1 ¼ in		106 psi	55AV92
1 ¼"	10 ft	1 9⁄16 in		99 psi	55AV93
	25 ft	1 9⁄16 in		99 psi	55AV94
	100 ft	—		99 psi	3JT90
	50 ft	1 9⁄16 in		99 psi	55AV95
1 ½"	10 ft	1 13⁄16 in	6 in	89 psi	55AV96
	25 ft	1 13⁄16 in		89 psi	55AV97
	50 ft	1 13⁄16 in		89 psi	55AV98
2 ½"	100 ft	—	10 in	65 psi	3JT93
2"	10 ft	2 3⁄8 in	8 in	79 psi	55AV99
	25 ft	2 3⁄8 in		79 psi	55AW01
	50 ft	2 3⁄8 in		79 psi	55AW02
3"	100 ft	—	12 in	65 psi	3JT94
	10 ft	3 ½ in		65 psi	55AW03
	25 ft	3 ½ in		65 psi	55AW04
	50 ft	3 ½ in		65 psi	55AW05
4"	100 ft	—	16 in	55 psi	3JT95
	10 ft	4 ½ in		55 psi	55AW06
	25 ft	4 ½ in		55 psi	55AW07
	50 ft	4 ½ in		55 psi	55AW08
Clear with White Spiral, PVC					
1"	10 ft	1 5⁄16 in	2 in	60 psi	55AW09
	25 ft	1 5⁄16 in		60 psi	55AW10
	50 ft	1 5⁄16 in		60 psi	55AW11
1 ¼"	10 ft	1 9⁄16 in	3 in	50 psi	55AW12
	25 ft	1 9⁄16 in		50 psi	55AW13
	50 ft	1 9⁄16 in		50 psi	55AW14
1 ½"	10 ft	1 ⅞ in	4 in	50 psi	55AW15
	25 ft	1 ⅞ in		50 psi	55AW16
	50 ft	1 ⅞ in		50 psi	55AW17
2"	10 ft	2 7⁄16 in		40 psi	55AW18
	25 ft	2 7⁄16 in		40 psi	55AW19
	50 ft	2 7⁄16 in		40 psi	55AW20
2 ½"	10 ft	3 1⁄16 in	5 in	35 psi	55AW21
	25 ft	3 1⁄16 in		35 psi	55AW22
	50 ft	3 1⁄16 in		35 psi	55AW23
3"	10 ft	3 9⁄16 in	7 in	35 psi	55AW24
	25 ft	3 9⁄16 in		35 psi	55AW25
	50 ft	3 9⁄16 in		35 psi	55AW26
4"	10 ft	4 ¾ in	10 in	35 psi	55AW27
	25 ft	4 ¾ in		35 psi	55AW28
	50 ft	4 ¾ in		35 psi	55AW29

Bulk Food & Beverage Hoses



Noncontaminating hoses are constructed with FDA and USDA-compliant food grade materials. Hose features static wire and is suitable for dry food transfer. Heavy-duty hose is noncorrugated and has higher pressure.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Safety Factor	Item No.
Clear, PVC						
¾"	50 ft	15⁄16 in	3 in	115 psi	3:1	55AU70
¾"	100 ft	—	3 in	115 psi	4:1	45CW46
¾"	100 ft	15⁄16 in	3 in	115 psi	3:1	55AU71
1"	50 ft	1 19⁄64 in	2 in	55 psi	3:1	55AU72
1 ¼"	100 ft	—	4 in	50 psi	4:01	45EE62
1"	100 ft	1 19⁄64 in	2 in	55 psi	3:1	55AU73
2"	50 ft	2 13/62 in	4 in	40 psi	3:1	55AU74
2"	100 ft	2 13/62 in	4 in	40 psi	3:1	55AU75
3"	50 ft	3 41⁄64 in	6 in	40 psi	3:1	55AU76
3"	100 ft	—	6 in	40 psi	4:1	45EE59
3"	100 ft	3 41⁄64 in	6 in	40 psi	3:1	55AU77

Nutriflex PVC Bulk Food & Beverage Hoses with Corrugated PVC Cover

Continental
ContiTech



Nutriflex PVC (polyvinyl chloride) bulk food and beverage hoses have a corrugated PVC cover and are designed for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses are more flexible than Nutriflo PVC bulk food and beverage hoses with smooth covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Safety Factor	Item No.
Clear, PVC Continental						
2"	100 ft	—	4 in	40 psi	3:1	1ZLT5
3"	100 ft	—	7 in	35 psi	3:1	1ZLT6
Kuriyama						
1"	100 ft	1 23⁄64 in	3 in	55 psi	3:1	55AU79
1"	50 ft	1 23⁄64 in	3 in	55 psi	3:1	55AU78
1 ½"	100 ft	—	3 in	55 psi	4:1	45EE57
2"	100 ft	—	4 in	50 psi	4:1	45EE58
2 ½"	100 ft	—	8 in	65 psi	4:1	45CW99
2"	100 ft	2 31⁄64 in	4 in	40 psi	3:1	55AU81
2"	50 ft	2 31⁄64 in	4 in	40 psi	3:1	55AU80
3"	100 ft	3 41⁄64 in	6 in	40 psi	3:1	55AU83
3"	50 ft	3 41⁄64 in	6 in	40 psi	3:1	55AU82
4"	100 ft	—	8 in	45 psi	4:1	45EE60
5"	20 ft	—	16 in	30 psi	4:1	45CW48
6"	20 ft	—	25 in	40 psi	4:1	45CW47

HI-TECH DURAVENT
Flexible Hose & Ducting

Flexflyte Fiberglass Duct Hose



Neoprene-coated fiberglass duct hoses are used to blow or exhaust hot air for pellet drying applications in the plastics-processing industry. These lightweight, flexible hoses are flame-retardant and self-extinguishing. They can handle fumes at low pressures and moderately high temperatures, but they are not recommended for applications with continuous flexing, liquids, or abrasives.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	L-1 BLACK Item No.	L-9 ORANGE Item No.
¾ in	12 ft	0.7 in	28 psi	28.00 in Hg	2RY76	2RY61
1 in	12 ft	0.9 in	28 psi	28.00 in Hg	2RY77	2RY62
1 ¼ in	12 ft	1.2 in	26 psi	26.00 in Hg	2RY78	2RY63
1 ½ in	12 ft	1.5 in	25 psi	24.00 in Hg	2RY79	2RY64
1 ¾ in	12 ft	1.7 in	24 psi	22.00 in Hg	2RY80	2RY65
2 in	12 ft	1.9 in	23 psi	20.00 in Hg	2RY81	—
2 in	12 ft	1.9 in	24 psi	20.00 in Hg	—	2RY66
2 ¼ in	12 ft	2.2 in	21 psi	19.00 in Hg	2RY82	2RY67
2 ½ in	12 ft	2.4 in	20 psi	18.00 in Hg	2RY83	2RY68
3 in	12 ft	2.9 in	19 psi	16.00 in Hg	2RY84	2RY69
4 in	12 ft	3.9 in	16 psi	13.00 in Hg	2RY85	2RY70
5 in	12 ft	4.9 in	14 psi	10.00 in Hg	2RY86	2RY71
6 in	12 ft	5.9 in	11 psi	7.00 in Hg	2RY87	2RY72
8 in	12 ft	7.8 in	7 psi	3.00 in Hg	2RY88	2RY73
10 in	12 ft	9.8 in	5 psi	1.50 in Hg	2RY89	2RY74
12 in	12 ft	11.8 in	4 psi	1.00 in Hg	2RY90	2RY75

FLEXFLYTE FIBERGLASS
- Temp. range: -75° to 500°F (L-9); -65° to 300°F (L-1)
- Fiberglass reinforced, smooth bore
- High temp. applications

Flexible hose has helical support. L-9 hose has 2-ply silicone fiberglass; L-1 hose is 2-ply neoprene fiberglass.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	25 FT. LENGTH Item No.
3 in	25 ft	0.8 in	0.4 psi	9.00 in Hg	2TA60
4 in	25 ft	1.0 in	0.4 psi	7.00 in Hg	2TA61
5 in	25 ft	1.3 in	0.4 psi	4.00 in Hg	2TA62
6 in	25 ft	1.5 in	0.4 psi	2.20 in Hg	2TA63
8 in	25 ft	2.0 in	0.4 psi	0.70 in Hg	2TA64
10 in	25 ft	2.5 in	0.4 psi	0.30 in Hg	2TA65
12 in	25 ft	3.0 in	0.4 psi	0.20 in Hg	2TA66

FLEXFLYTE VF PVC-COATED FIBERGLASS - GRAY
- Temp. range: -20° to 200°F

Flexible material has PVC-coated wire helix. Ideal for low-pressure air.

HI-TECH DURAVENT
Flexible Hose & Ducting

Industrial Ducting Hose



Reinforced PVC (polyvinyl chloride) duct hoses are used for moving large volumes of air in chemical fume-removal, general fume-removal, and solvent-ventilation applications in the food-manufacturing, chemical-manufacturing, pharmaceutical, industrial woodworking, and plastics-processing industries. These hoses can also be used for low-vacuum applications on dust-cleaning equipment. These hoses resist damage from chemicals and moisture, and they are made from transparent material that lets users see what's in the tube. The hoses are highly compressible, which saves space when transporting them.

ARD COMPRESSIBLE PVC
- Temp. range: -20° to 180°F
- Highly compressible

Sturdy, flexible PVC wall construction reinforced with spring wire helix provides an economical choice for positive airflow.

HTR HEATER/DEFROSTER
- Temp. range: -40° to 225°F
- Crush-resistant
- Compressible for storage

Lightweight hose is constructed from a polypropylene wall, reinforced with polypropylene rod helix. An economical choice for air, dust, and fume applications.

Hose I.D.	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	25 FT. LENGTH Item No.	50 FT. LENGTH Item No.
ARD Compressible PVC - Clear For Air Applications					
6 in	4 in	7 psi	6.00 in Hg	3AXY7	—
8 in	6 in	7 psi	2.50 in Hg	3AXY8	—
10 in	8 in	5 psi	1.75 in Hg	3AXY9	—
12 in	9.5 in	3 psi	1.25 in Hg	3AXZ1	—
14 in	10.5 in	2 psi	1.50 in Hg	3AXZ2	—
16 in	11.5 in	1 psi	1.50 in Hg	3AXZ3	—
18 in	12.5 in	1 psi	1.50 in Hg	3AXZ4	—
HTR Heater-Defroster - Black For Air Applications					
1 in	1.3 in	11 psi	Not Rated	3AYG5	3AYH3
1 ¼ in	1.8 in	10 psi	Not Rated	3AYG6	3AYH4
1 ½ in	2.3 in	10 psi	Not Rated	3AYG7	3AYH5
2 in	3.3 in	10 psi	Not Rated	3AYG8	3AYH6
2 ½ in	4 in	9 psi	Not Rated	3AYG9	3AYH7
3 in	4.5 in	8 psi	Not Rated	3AYH1	3AYH8
4 in	4.8 in	3 psi	Not Rated	3AYH2	3AYH9

1PV-EP-HM Vinyl Blower Hose with Wear Strip No. 3WB42



HI-TECH DURAVENT
Flexible Hose & Ducting

Blower Hose

Neoprene-coated polyester duct hoses are used to blow or exhaust air for dehumidification, enclosed space ventilation, portable air conditioner, preconditioned air, and general ventilation applications in foundries, municipalities, shipyards, and the aerospace and facility-service industries. These flexible hoses are flame-retardant and self-extinguishing. They also have an external vinyl-coated wear strip that protects the hose from abrasion when dragged. The hoses are highly compressible, which saves space when transporting them.

1PN-EP-HM NEOPRENE BLOWER HOSE WITH WEAR STRIP
- Operating temp. range: -40°F to 250°F

1-ply, neoprene-coated polyester fabric material with a wire helix reinforcement and an extruded external wear strip. Suitable for heavy-duty positive airflow and for use in cooling, exhaust, and heating/temporary heating applications.

Note: Hose and air mover sold separately.

1PV-EP-HM VINYL BLOWER HOSE WITH WEAR STRIP
- Operating temp. range: -20° to 180°F

Hose is compressible from 15 ft. to 11". Vinyl-on-polyester fabric construction is protected with a vulcanized wear strip. Includes sewn cuff, belt, and buckle on each end. For positive airflow applications.

1PV-EPW-HT HI-TEMP BLOWER HOSE
- Operating temp. range: -65° to 325°F
- Medium weight
- Flexible and compressible

Ideal for positive airflow applications in heating rooms, confined spaces, tents, and buildings. Durable ducting fabric uses a 100% heat-set fiberglass base substrate laminated to a specially formulated PVC alloy.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
1PN-EP-HM Neoprene Blower Hose with Wear Strip - Yellow/Black					
6 in	15 ft	3.5 in	8 psi	Not Rated	40ME75
6 in	25 ft	3.5 in	8 psi	Not Rated	52DE80
8 in	25 ft	5 in	6 psi	Not Rated	40ME78
12 in	15 ft	7.5 in	3 psi	Not Rated	40ME79
12 in	25 ft	7.5 in	3 psi	Not Rated	52DE82
14 in	15 ft	8.5 in	2.5 psi	Not Rated	40ME80
16 in	15 ft	9.5 in	2 psi	Not Rated	40ME74
16 in	25 ft	9.5 in	2 psi	Not Rated	52DE84
18 in	15 ft	10.5 in	2 psi	Not Rated	40ME81
18 in	25 ft	10.5 in	2 psi	Not Rated	52DE85
20 in	15 ft	12 in	1 psi	Not Rated	40ME77
20 in	25 ft	12 in	1 psi	Not Rated	52DE86
1PV-EP-HM Vinyl Blower Hose with Wear Strip - /Black					
6 in	15 ft	4 in	15 psi	2.50 in Hg	3WB42
6 in	25 ft	3.5 in	15 psi	Not Rated	52DE87
8 in	15 ft	6 in	13 psi	1.50 in Hg	3WB43
8 in	25 ft	5 in	13 psi	Not Rated	52DE88
12 in	15 ft	7.3 in	10 psi	0.50 in Hg	3WB44
12 in	25 ft	7.5 in	10 psi	Not Rated	52DE89
14 in	15 ft	8.2 in	10 psi	0.50 in Hg	3WB45
14 in	25 ft	8.5 in	10 psi	Not Rated	52DE90
1PV-EP-HM Vinyl Blower Hose with Wear Strip - Yellow/Black					
16 in	15 ft	9.5 in	8 psi	Not Rated	40ME82
16 in	25 ft	9.5 in	8 psi	Not Rated	52DE91
18 in	15 ft	10.5 in	5 psi	Not Rated	40ME73
20 in	15 ft	12 in	5 psi	Not Rated	40ME76
20 in	25 ft	12 in	5 psi	Not Rated	52DE93
1PV-EPW-HT Hi-Temp Blower Hose with Wear Strip - Yellow/Black					
8 in	25 ft	4 in	6 psi	1.50 in Hg	3WB41

FACILITY AUDIT

The Grainger Energy Services Team is your resource to help identify and implement efficient energy solutions for your business. Schedule your facility audit to learn how much you can save with Grainger Energy Services.

> Visit **grainger.com/energyservices**



Continental ContiTech

HI-TECH DURAVENT Flexible Hose & Ducting

DT-30 for Wood Chips and Plastic Pellets

- Temp. range: -60° to 180°F
- Abrasion-resistant urethane
- Severe service applications


No. 2RY31

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
DT-30 Polyether Urethane Film					
For Wood Chip Applications					
3 in	25 ft	2.2 in	23 psi	10.00 in Hg	**2TA13**
4 in	25 ft	3.1 in	18 psi	9.00 in Hg	**2TA14**
5 in	25 ft	4 in	14 psi	7.00 in Hg	**2TA15**
6 in	25 ft	4.6 in	14 psi	5.00 in Hg	**2TA16**
8 in	25 ft	6.1 in	11 psi	2.00 in Hg	**2TA17**
10 in	25 ft	9 in	10 psi	5.00 in Hg	**2TA11**
12 in	25 ft	9.5 in	8 psi	2.00 in Hg	**2TA19**
12 in	25 ft	9.5 in	8 psi	2.00 in Hg	**2TA12**
DT-30 Urethane					
3 in	25 ft	2.2 in	23 psi	10.00 in Hg	**3WB22**
4 in	25 ft	3.1 in	18 psi	9.00 in Hg	**3WB23**
5 in	25 ft	4 in	14 psi	7.00 in Hg	**3WB24**
6 in	25 ft	4.6 in	14 psi	5.00 in Hg	**3WB25**
8 in	25 ft	6.1 in	11 psi	2.00 in Hg	**3WB26**
SDH Clear/White Plastic Helix					
1 ¼ in	25 ft	3.3 in	29 psi	29.00 in Hg	**3AXW9**
1 ¼ in	50 ft	3.3 in	29 psi	29.00 in Hg	**3AXX9**
1 ½ in	25 ft	4 in	27 psi	29.00 in Hg	**3AXX1**
1 ½ in	50 ft	4 in	27 psi	29.00 in Hg	**3AXY1**
1 ¾ in	25 ft	4.3 in	27 psi	28.00 in Hg	**3AXX2**
1 ¾ in	50 ft	4.3 in	27 psi	28.00 in Hg	**3AXY2**
2 in	25 ft	4.5 in	25 psi	27.00 in Hg	**3AXX3**
2 in	50 ft	4.5 in	25 psi	27.00 in Hg	**3AXY3**
2 ½ in	25 ft	5.5 in	23 psi	24.00 in Hg	**3AXX4**
2 ½ in	50 ft	5.5 in	23 psi	24.00 in Hg	**3AXY4**
3 in	25 ft	6 in	19 psi	20.00 in Hg	**3AXX5**
3 in	50 ft	6 in	19 psi	20.00 in Hg	**3AXY5**
4 in	25 ft	6.75 in	9 psi	15.00 in Hg	**3AXX6**
4 in	50 ft	6.75 in	9 psi	15.00 in Hg	**3AXY6**
UFD.020 Urethane - Clear					
2 in	25 ft	2.0 in	25 psi	29.00 in Hg	**3AXN5**
2 ½ in	25 ft	2.3 in	25 psi	29.00 in Hg	**3AXN6**
3 in	25 ft	2.5 in	25 psi	29.00 in Hg	**3AXN7**
4 in	25 ft	3 in	18 psi	22.00 in Hg	**3AXN8**
5 in	25 ft	3.5 in	16 psi	17.00 in Hg	**3AXN9**
6 in	25 ft	4 in	13 psi	13.00 in Hg	**3AXP1**
7 in	25 ft	5 in	13 psi	11.00 in Hg	**3AXP2**
8 in	25 ft	5.5 in	11 psi	11.00 in Hg	**3AXP3**
10 in	25 ft	6.5 in	7 psi	5.00 in Hg	**3AXP4**
12 in	25 ft	8 in	7 psi	3.00 in Hg	**3AXP5**
UFD-AP Clear/Yellow Urethane Wall/ABS Helix					
1 ½ in	25 ft	2.0 in	40 psi	28.00 in Hg	**3AXK9**
1 ½ in	50 ft	2.0 in	40 psi	28.00 in Hg	**3AXL7**
2 in	25 ft	2.3 in	34 psi	26.00 in Hg	**3AXL1**
2 in	50 ft	2.3 in	34 psi	26.00 in Hg	**3AXL8**
2 ½ in	25 ft	2.8 in	32 psi	26.00 in Hg	**3AXL2**
2 ½ in	50 ft	2.8 in	32 psi	26.00 in Hg	**3AXL9**
3 in	25 ft	3 in	31 psi	26.00 in Hg	**3AXL3**
3 in	50 ft	3 in	31 psi	26.00 in Hg	**3AXN1**
4 in	25 ft	4 in	30 psi	22.00 in Hg	**3AXL4**
4 in	50 ft	4 in	30 psi	22.00 in Hg	**3AXN2**
6 in	25 ft	6.5 in	25 psi	10.00 in Hg	**3AXL5**
6 in	50 ft	6.5 in	25 psi	10.00 in Hg	**3AXN3**
8 in	25 ft	9 in	25 psi	9.00 in Hg	**3AXL6**
UFD-SD Urethane - Clear					
For Wood Chip Applications					
2 in	25 ft	2.5 in	13 psi	29.00 in Hg	**3AXU9**
2 in	50 ft	2.5 in	13 psi	29.00 in Hg	**3AXV8**
3 in	25 ft	3.5 in	12 psi	29.00 in Hg	**3AXV1**
3 in	50 ft	3.5 in	12 psi	29.00 in Hg	**3AXV9**
4 in	25 ft	4.5 in	10 psi	20.00 in Hg	**3AXV2**
4 in	50 ft	4.5 in	10 psi	20.00 in Hg	**3AXW1**
5 in	25 ft	5.5 in	10 psi	15.00 in Hg	**3AXV3**
5 in	50 ft	5.5 in	10 psi	15.00 in Hg	**3AXW2**
6 in	25 ft	6.3 in	9 psi	13.00 in Hg	**3AXV4**
6 in	50 ft	6.3 in	9 psi	13.00 in Hg	**3AXW3**
8 in	25 ft	8.8 in	7 psi	10.00 in Hg	**3AXV5**
Vac-U-Flex TPU - Clear					
For Wood Chip Applications					
¾ in	25 ft	0.7 in	16 psi	28.00 in Hg	**2RY31**
1 in	25 ft	0.9 in	15 psi	28.00 in Hg	**2RY33**
1 ¼ in	25 ft	1.2 in	13 psi	28.00 in Hg	**2RY35**
1 ½ in	25 ft	1.5 in	10 psi	26.00 in Hg	**2RY37**
2 in	25 ft	2.0 in	8 psi	22.00 in Hg	**2RY39**
2 ½ in	25 ft	2.5 in	7 psi	20.00 in Hg	**2RY41**
3 in	25 ft	2.9 in	6 psi	16.00 in Hg	**2RY43**
4 in	25 ft	3.9 in	5 psi	12.00 in Hg	**2RY45**
5 in	25 ft	4.9 in	5 psi	10.00 in Hg	**2RY47**
6 in	25 ft	5.9 in	4 psi	7.00 in Hg	**2RY49**


No. 2TA27

HI-TECH DURAVENT Flexible Hose & Ducting

DT-45 URETHANE Thermoplastic Polyurethane Duct Hoses for Metal Shavings

- Temp. range: -60° to 180°F
- Abrasion-resistant urethane
- Severe service applications

Hose has hard-drawn spring steel wire helical support. DT-45 hose features medium-weight, 3-ply construction to withstand higher pressure and vacuum

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Black Item No.	Clear Item No.
DT-45 Polyether Urethane Film						
For Wood Chip Applications						
3 in	25 ft	3.4 in	23 psi	24.00 in Hg	**2TA27**	**2TA20**
4 in	25 ft	4.4 in	18 psi	23.00 in Hg	**2TA28**	**2TA21**
5 in	25 ft	5.2 in	14 psi	18.00 in Hg	**2TA29**	**2TA22**
6 in	25 ft	5.7 in	14 psi	14.00 in Hg	**2TA30**	**2TA23**
8 in	25 ft	7.3 in	11 psi	10.00 in Hg	**2TA31**	**2TA24**
10 in	25 ft	9.3 in	10 psi	5.00 in Hg	**2TA32**	**2TA25**
12 in	25 ft	10.3 in	8 psi	3.00 in Hg	**2TA33**	—

HI-TECH DURAVENT Flexible Hose & Ducting


No. 2RY51

VAC-U-LOC Vacuum Hose

- Temp. range: -65° to 140°F
- Nonwire

Flexible, moisture-resistant all-polyethylene EVA hose has self-supporting interlocked construction.

Hose I.D.	Hose Length	Max. Working Pressure @ 70°F	Vacuum Rating	Bend Radius	Item No.
Vac-U-Loc - Gray					
For Dust Applications					
1 ¼ in	50 ft	20 psi	20.00 in Hg	3.5 in	**2RY51**
1 ½ in	50 ft	16 psi	18.00 in Hg	4.0 in	**2RY53**
2 in	25 ft	15 psi	18.00 in Hg	4.3 in	**2RY55**
2 ½ in	25 ft	14 psi	16.00 in Hg	4.6 in	**2RY56**
3 in	25 ft	9 psi	11.00 in Hg	5.1 in	**2RY57**


No. 3AYG2

HI-TECH DURAVENT Flexible Hose & Ducting

Urethane Airline Lavatory Hose

- Temp. range: -60° to 160°F
- 4⅛" I.D. urethane hose with cuffs
- Translucent blue

Urethane wall, nylon helix construction is crush-, kink-, and abrasion-resistant.

Length	Bend Radius	Max. Pressure	Vacuum Rating	Item No.
Urethane Industrial Ducting Hose				
10 ft.				**3AYG2**
12 ft.	9.0"	10 psi	10.00" Hg	**3AYG3**
15 ft.				**3AYG4**


No. 2RY91

HI-TECH DURAVENT
Flexible Hose & Ducting

Duct Hose for Dust

These thermoplastic rubber duct hoses have heavy, thick walls. They provide excellent chemical resistance and good abrasion resistance, and they also resist moisture, ozone, and UV rays. They are used for cotton harvesting, fume removal, leaf blowing, oil-mist collecting, seeding, solvent ventilation, and general ventilation applications. These hoses are suitable for applications with a wide temperature range.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
Dura-Flex 9025TPR - Black					
For Air Applications					
2 in	25 ft	1.9 in	31 psi	28.00 in Hg	**2RY91**
3 in	25 ft	3.5 in	28 psi	24.00 in Hg	**3WB27**
4 in	25 ft	4 in	24 psi	18.00 in Hg	**3WB28**
5 in	25 ft	5 in	20 psi	16.00 in Hg	**3WB29**
6 in	25 ft	5.5 in	18 psi	17.00 in Hg	**3WB30**
8 in	25 ft	7 in	12 psi	8.00 in Hg	**3WB31**
10 in	25 ft	7.1 in	8 psi	5.50 in Hg	**2RY92**
12 in	25 ft	8.3 in	6 psi	3.00 in Hg	**2RY93**
Vac-U-Flex TPE - Black					
For Dust Applications					
¾ in	25 ft	0.7 in	10 psi	28.00 in Hg	**2RY11**
1 in	25 ft	0.9 in	10 psi	28.00 in Hg	**2RY13**
1 ¼ in	25 ft	1.2 in	10 psi	28.00 in Hg	**2RY15**
1 ½ in	25 ft	1.5 in	10 psi	28.00 in Hg	**2RY17**
2 in	25 ft	2.0 in	10 psi	28.00 in Hg	**2RY19**
2 ½ in	25 ft	2.5 in	9 psi	28.00 in Hg	**2RY21**
3 in	25 ft	2.9 in	7 psi	28.00 in Hg	**2RY23**
4 in	25 ft	3.9 in	6 psi	28.00 in Hg	**2RY25**
5 in	25 ft	4.9 in	5 psi	18.00 in Hg	**2RY27**
6 in	25 ft	5.9 in	4 psi	10.00 in Hg	**2RY29**
Santoprene Black and Blue					
For Exhaust Applications					
3 in	25 ft	2.7 in	28 psi	24.00 in Hg	**2RY94**
4 in	25 ft	3.6 in	24 psi	18.00 in Hg	**2RY95**
5 in	25 ft	4.1 in	20 psi	16.00 in Hg	**2RY96**
6 in	25 ft	4.5 in	18 psi	17.00 in Hg	**2RY97**
8 in	25 ft	5.9 in	12 psi	8.00 in Hg	**2RY98**
10 in	25 ft	7.1 in	8 psi	5.50 in Hg	**2RY99**
12 in	25 ft	8.3 in	6 psi	3.00 in Hg	**2TA10**
RFH-Plus Fabric Reinforced - Black					
For Dust Applications					
2 in	25 ft	3.5 in	50 psi	29.00 in Hg	**3AYR1**
2 in	50 ft	3.5 in	50 psi	29.00 in Hg	**3AYU2**
2 ½ in	25 ft	4 in	36 psi	29.00 in Hg	**3AYR3**
2 ½ in	50 ft	4 in	36 psi	29.00 in Hg	**3AYU4**
3 in	25 ft	4.3 in	29 psi	28.00 in Hg	**3AYR4**
3 in	50 ft	4.3 in	29 psi	28.00 in Hg	**3AYU5**
4 in	25 ft	4.8 in	27 psi	28.00 in Hg	**3AYR6**
4 in	50 ft	4.8 in	27 psi	28.00 in Hg	**3AYU7**
5 in	25 ft	6 in	25 psi	19.00 in Hg	**3AYR8**
5 in	50 ft	6 in	25 psi	19.00 in Hg	**3AYU9**
6 in	25 ft	7.5 in	18 psi	16.00 in Hg	**3AYT1**
6 in	50 ft	7.5 in	18 psi	16.00 in Hg	**3AYV2**
7 in	25 ft	8.3 in	15 psi	15.00 in Hg	**3AYT2**
8 in	25 ft	9 in	13 psi	15.00 in Hg	**3AYT3**
8 in	50 ft	9 in	13 psi	15.00 in Hg	**3AYV4**
9 in	25 ft	11.0 in	10 psi	10.00 in Hg	**3AYT4**
9 in	50 ft	11.0 in	10 psi	10.00 in Hg	**3AYV5**
10 in	25 ft	11.0 in	8 psi	10.00 in Hg	**3AYT5**
10 in	50 ft	11.0 in	8 psi	10.00 in Hg	**3AYV6**
12 in	25 ft	13.0 in	8 psi	8.00 in Hg	**3AYT6**
12 in	50 ft	13.0 in	8 psi	8.00 in Hg	**3AYV7**
RFH FDA - White					
For Dust Applications					
2 in	25 ft	3.5 in	17 psi	29.00 in Hg	**3AYA1**
3 in	25 ft	4.3 in	10 psi	28.00 in Hg	**3AYA2**
4 in	25 ft	6.5 in	10 psi	25.00 in Hg	**3AYA3**
5 in	25 ft	8 in	9 psi	15.00 in Hg	**3AYA4**
6 in	25 ft	8.8 in	8 psi	11.50 in Hg	**3AYA5**
8 in	25 ft	12 in	6 psi	5.50 in Hg	**3AYA6**
ARH Black/Gray Plastic Helix					
¾ in	25 ft	1.5 in	38 psi	29.00 in Hg	**3AYC8**
¾ in	50 ft	1.5 in	38 psi	29.00 in Hg	**3AYD9**
1 in	25 ft	2.3 in	34 psi	29.00 in Hg	**3AYC9**
1 in	50 ft	2.3 in	34 psi	29.00 in Hg	**3AYE1**
1 ¼ in	25 ft	2.5 in	28 psi	29.00 in Hg	**3AYD1**
1 ¼ in	50 ft	2.5 in	28 psi	29.00 in Hg	**3AYE2**
1 ½ in	25 ft	2.8 in	23 psi	29.00 in Hg	**3AYD2**
1 ½ in	50 ft	2.8 in	23 psi	29.00 in Hg	**3AYE3**
1 ¾ in	25 ft	3 in	18 psi	29.00 in Hg	**3AYD3**
1 ¾ in	50 ft	3 in	18 psi	29.00 in Hg	**3AYE4**
2 in	25 ft	3.3 in	17 psi	29.00 in Hg	**3AYD4**
2 in	50 ft	3.3 in	17 psi	29.00 in Hg	**3AYE5**
2 ½ in	25 ft	3.8 in	16 psi	24.00 in Hg	**3AYD6**
3 in	25 ft	5 in	14 psi	19.00 in Hg	**3AYD7**
3 in	50 ft	5 in	14 psi	19.00 in Hg	**3AYE8**
4 in	25 ft	7 in	11 psi	16.00 in Hg	**3AYD8**
4 in	50 ft	7 in	11 psi	16.00 in Hg	**3AYE9**
Super Vac-U-Flex - Gray					
1 ¼ in	50 ft	0.9 in	45 psi	27.00 in Hg	**2RV79**
1 ½ in	50 ft	1.1 in	36 psi	26.00 in Hg	**2RV81**
2 in	50 ft	1.6 in	26 psi	25.00 in Hg	**2RV83**
2 ½ in	50 ft	2.2 in	20 psi	24.00 in Hg	**2RV85**
3 in	25 ft	2.5 in	20 psi	24.00 in Hg	**2RV87**
4 in	25 ft	3.3 in	14 psi	18.00 in Hg	**2RV89**
Vac-U-Flex EHL Clear/Black PVC Helix					
For Dust Applications					
1 ½ in	25 ft	1.1 in	20 psi	10.00 in Hg	**3AXK2**
1 ¾ in	25 ft	1.4 in	18 psi	8.00 in Hg	**3AXK3**
2 in	25 ft	1.7 in	18 psi	8.00 in Hg	**3AXK4**
2 ½ in	25 ft	2.0 in	13 psi	6.00 in Hg	**3AXK5**
3 in	25 ft	2.4 in	9 psi	4.00 in Hg	**3AXK6**
3 ½ in	25 ft	3.0 in	6 psi	3.00 in Hg	**3AXK7**
4 in	25 ft	3.1 in	6 psi	3.00 in Hg	**3AXK8**
Vac-U-Flex EHL White PVC Not Reinforced					
1 in	100 ft	—	37 psi	29.00 in Hg	**4XR62**
White PVC Helix					
1 ¼ in	100 ft	—	37 psi	29.00 in Hg	**1ZLJ3**
White PVC Not Reinforced					
1 ½ in	100 ft	—	34 psi	29.00 in Hg	**4XR63**
2 in	100 ft	—	30 psi	29.00 in Hg	**4XR64**
White PVC Helix					
3 in	100 ft	—	30 psi	29.00 in Hg	**1ZLJ4**
4 in	100 ft	—	27 psi	15.00 in Hg	**1ZLJ5**
2PV Econo-Max Vinyl - Blue					
For Air Applications					
3 in	25 ft	2.7 in	23 psi	27.00 in Hg	**19RT26**
4 in	25 ft	3.4 in	18 psi	25.00 in Hg	**19RT27**
5 in	25 ft	3.9 in	14 psi	18.00 in Hg	**19RT28**
6 in	25 ft	4.5 in	14 psi	14.00 in Hg	**19RT29**
Dura-Flex 8025 PVC - Blue					
For Air Applications					
3 in	25 ft	2.7 in	24 psi	22.00 in Hg	**3WB34**
4 in	25 ft	3.6 in	11 psi	17.00 in Hg	**3WB32**
5 in	25 ft	4.5 in	10 psi	14.00 in Hg	**3WB33**
6 in	25 ft	5.1 in	8 psi	10.00 in Hg	**3WB35**
8 in	25 ft	7 in	7 psi	6.00 in Hg	**3WB36**
CVD-AP Clear/Black PVC Helix					
For Dust Applications					
4 in	25 ft	4 in	16 psi	14.00 in Hg	**3AXJ1**
4 in	50 ft	4 in	16 psi	14.00 in Hg	**3AXJ6**
5 in	25 ft	4.3 in	15 psi	12.00 in Hg	**3AXJ2**
6 in	25 ft	5.8 in	12 psi	11.00 in Hg	**3AXJ3**
7 in	25 ft	6 in	11 psi	6.00 in Hg	**3AXJ4**
8 in	25 ft	7.8 in	10 psi	6.00 in Hg	**3AXJ5**
TDHS PVC Laminated Polyester - Black and Orange					
For Exhaust Applications					
3 in	25 ft	1.5 in	28 psi	24.00 in Hg	**2TA53**
4 in	25 ft	2.0 in	24 psi	18.00 in Hg	**2TA54**
5 in	25 ft	2.5 in	20 psi	16.00 in Hg	**2TA55**
6 in	25 ft	3.0 in	18 psi	17.00 in Hg	**2TA56**
8 in	25 ft	4.0 in	12 psi	8.00 in Hg	**2TA57**
10 in	25 ft	5.0 in	8 psi	5.50 in Hg	**2TA58**
12 in	25 ft	6 in	6 psi	3.00 in Hg	**2TA59**
2PN Neoprene Coated Polyester - Black					
For Dust Applications					
1 ½ in	25 ft	1.3 in	41 psi	29.00 in Hg	**3WB12**
2 in	25 ft	1.8 in	33 psi	28.00 in Hg	**3WB13**
2 ½ in	25 ft	2.3 in	27 psi	28.00 in Hg	**3WB14**
3 in	25 ft	2.7 in	23 psi	27.00 in Hg	**3WB15**
4 in	25 ft	3.4 in	18 psi	25.00 in Hg	**3WB16**
5 in	25 ft	3.9 in	14 psi	18.00 in Hg	**3WB17**
6 in	25 ft	4.5 in	14 psi	14.00 in Hg	**3WB18**
8 in	25 ft	5.5 in	11 psi	11.00 in Hg	**3WB19**
10 in	25 ft	6.8 in	10 psi	5.00 in Hg	**3WB20**
12 in	25 ft	9.4 in	8 psi	3.00 in Hg	**3WB21**
333 Clear Wall with Opaque Plastic Helix					
For Dust Applications					
2 ½ in	25 ft	5.3 in	23 psi	24.00 in Hg	**3AYF2**
3 in	25 ft	6.75 in	18 psi	18.00 in Hg	**3AYF3**
3 ½ in	25 ft	8 in	12 psi	12.00 in Hg	**3AYF4**
4 in	25 ft	8.3 in	12 psi	12.00 in Hg	**3AYF5**

GA GRAINGER APPROVED

HI-TECH DURAVENT
Flexible Hose & Ducting


No. 3AYW1


No. 2RV91


No. 3AYP9


No. 2TA34


No. 2TA48

Vacuum Hose Cuffs

Outside Dia. (in.)	Inside Dia. (in.)	For Use With	Item No.
Hose Cuff			
PVC			
1 ½ in	1 ¼ in	3AXK -3AXN3, 3AXX1-3AXY6, 3AYC8-3AYE9	**3AYV9**
1 ¾ in	1 ½ in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW1**
2 in	1 ¾ in	3AXK -3AXN3, 3AXX1-3AXY6, 3AYC8-3AYE9	**3AYW2**
2 ¼ in	2 in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW3**
3 ¼ in	3 in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW4**
Screw Cuff			
1 ½ in	1 ¼ in	For Ducting Hose No. 2RV79	**2RV91**
1 ¾ in	1 ½ in	Ducting Hose No. 2RV81	**2RV93**
2 ⁹⁄₁₆ in	2 in	Ducting Hose No. 2RV83	**2RV95**
2 ⅞ in	2 ½ in	Ducting Hose No. 2RV85	**2RV97**
3 ⅜ in	3 in	For Ducting Hose No. 2RV87	**2RV99**
Y Connector			
Aluminum			
5 in	4 in	3AYK3 - 3AYL3	**3AYP9**

Outside Dia. (in.)	For Use With	Item No.
Ducting Hose Connector		
304 Stainless Steel		
4 in	4 in Ducting Hose	**2TA34**
5 in	5 in Ducting Hose	**2TA35**
6 in	6 in Ducting Hose	**2TA36**
8 in	8 in Ducting Hose	**2TA37**
10 in	10 in Ducting Hose	**2TA38**
12 in	12 in Ducting Hose	**2TA39**

Inside Dia. (in.)	For Use With	Item No.
Hose Quick Release Clamp		
Galvanized Steel		
4 in	4 in Ducting Hose	**2TA48**
6 in	6 in Ducting Hose	**2TA49**
8 in	8 in Ducting Hose	**2TA50**
10 in	10 in Ducting Hose	**2TA51**
12 in	12 in Ducting Hose	**2TA52**



Eldon James

PVC Suction and Transfer Hoses

- Temp. range: 25° to 150°F
- Vacuum to 29.9" Hg
- Hardness: Shore A73
- Clear color
- 25-ft. length

Spring spiral wire reinforcement prevents collapsing and kinking, and can also be used for static dissipation. Nonmarking, nontoxic, chemical-resistant hose has a smooth interior wall that prevents product buildup. For food and water dispensing, pure water systems, coolant lines, pneumatic systems, vacuum lines, and auto wash equipment. Formulation conforms to FDA requirements.

Tube Hardness	Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Item No.
Shore A: 73	1/4"	1/2"	1/8"	210 psi @ 70°F	4CHR2
Shore A: 73	3/8"	5/8"	1/8"	180 psi @ 70°F	4CHR3
Shore A: 73	1/2"	13/16"	5/32"	150 psi @ 70°F	4CHR4
Shore A: 73	5/8"	1"	3/16"	100 psi @ 70°F	4CHR5
Shore A: 73	3/4"	1 1/4"	3/16"	100 psi @ 70°F	4CHR6
Shore A: 73	1"	1 3/8"	3/16"	85 psi @ 70°F	4CHR7
Shore A: 73	1 1/4"	1 3/4"	1/4"	85 psi @ 70°F	4CHR8
Shore A: 73	1 1/2"	2"	1/4"	85 psi @ 70°F	4CHR9
Shore A: 73	2"	2 1/2"	1/4"	70 psi @ 70°F	4CHT1
Shore A: 73	2 1/4"	2 3/4"	1/4"	50 psi @ 70°F	4CHT2
Shore A: 73	2 1/2"	3"	1/4"	50 psi @ 70°F	4CHT3
Shore A: 73	3"	3 1/2"	1/4"	50 psi @ 70°F	4CHT4

** Working pressure decreases as temperature increases.*



No. 4HL97

GRAINGER APPROVED

Clear PVC Tubing

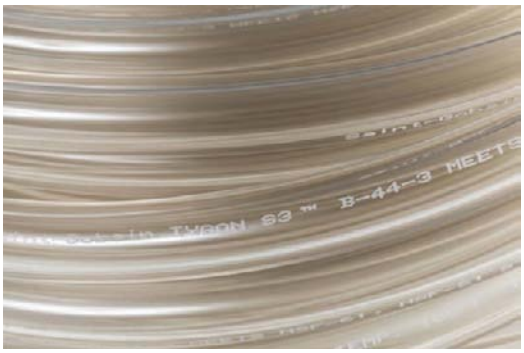
- Temp. range: 25° to 150°F (-4° to 65°C)
- Hardness: Shore A73

This flexible, nontoxic tubing is ideal for use in most food and beverage applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Tube support is recommended if used with push-to-connect fittings.

Tube Color	Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Length	Item No.	
Clear	1/8"	1/4"	1/16"	65 psi @ 70°F	100 ft.	4HL96	
Clear	3/16"	1/4"	1/32"	50 psi @ 70°F	100 ft.	4EGU4	
Clear	3/16"	5/16"	1/16"	55 psi @ 70°F	100 ft.	4EGU5	
Clear	3/16"	3/8"	3/32"	60 psi @ 70°F	100 ft.	4EGU6	
Clear	1/4"	3/8"	1/16"	55 psi @ 70°F	100 ft.	4HL97	
Clear	1/4"	7/16"	3/32"	58 psi @ 70°F	100 ft.	4EGU7	
Clear	1/4"	1/2"	1/8"	60 psi @ 70°F	100 ft.	4EGU8	
Clear	5/16"	7/16"	1/16"	50 psi @ 70°F	100 ft.	1PBK3	
Clear	5/16"	1/2"	3/32"	55 psi @ 70°F	100 ft.	4EGU9	
Clear	3/8"	1/2"	1/16"	45 psi @ 70°F	100 ft.	4HL98	
Clear	3/8"	9/16"	3/32"	50 psi @ 70°F	100 ft.	4EGV2	
Clear	3/8"	5/8"	1/8"	55 psi @ 70°F	100 ft.	4EGV3	
Clear	7/16"	9/16"	1/16"	35 psi @ 70°F	100 ft.	4EGV4	
Clear	1/2"	5/8"	1/16"	30 psi @ 70°F	100 ft.	4HL99	
Clear	1/2"	11/16"	3/32"	40 psi @ 70°F	100 ft.	4EGV5	
Clear	1/2"	3/4"	1/8"	45 psi @ 70°F	100 ft.	4EGV6	
Clear	5/8"	3/4"	1/16"	35 psi @ 70°F	100 ft.	4HM01	
Clear	5/8"	13/16"	3/32"	35 psi @ 70°F	100 ft.	4EGV7	
Clear	5/8"	7/8"	1/8"	40 psi @ 70°F	100 ft.	4EGV8	
Clear	3/4"	1"	1/8"	35 psi @ 70°F	100 ft.	4HM02	
Clear	3/4"	1 1/8"	3/16"	40 psi @ 70°F	100 ft.	4EGV9	
Clear	3/4"	1 1/4"	1/4"	45 psi @ 70°F	100 ft.	4EGW1	
Clear	7/8"	1 1/8"	1/8"	30 psi @ 70°F	100 ft.	4EGW2	
Clear	7/8"	1 1/4"	3/16"	35 psi @ 70°F	100 ft.	4EGW3	
Clear	1"	1 1/4"	1/8"	25 psi @ 70°F	100 ft.	1PBK4	
Clear	1"	1 3/8"	3/16"	30 psi @ 70°F	100 ft.	4EGW4	
Clear	1"	1 1/2"	1/4"	35 psi @ 70°F	100 ft.	4EGW5	
Clear	1 1/4"	1 1/2"	1/8"	20 psi @ 70°F	50 ft.	2LZD4	
Clear	1 1/4"	1 1/2"	1/8"	20 psi @ 70°F	100 ft.	1PBK5	
Clear	1 1/4"	1 5/8"	3/16"	30 psi @ 70°F	50 ft.	4EGW6	
Clear	1 1/4"	1 3/4"	1/4"	40 psi @ 70°F	50 ft.	4EGW7	
Blue	1 1/2"	1 7/8"	3/16"	20 psi @ 70°F	50 ft.	2LZD5	†
Clear	1 1/2"	2"	1/4"	30 psi @ 70°F	100 ft.	1PBK6	
Clear	1 1/2"	2"	1/4"	35 psi @ 70°F	50 ft.	4EGW8	
Clear	2"	2 1/2"	1/4"	20 psi @ 70°F	50 ft.	2LZD6	

** Working pressure decreases as temperature increases. † Tinted blue color.*



B-44-3
No. 2LPR5

SAINT-GOBAIN

Tygon S3™ B-44-3 and Tygon S3™ B-44-4X Tubing

- Temp. range: -32° to 165°F
- Hardness: Shore A66
- Clear color
- 50-ft. length

Tubing is taste-free, odor-free, nontoxic, and contains no BPA or phthalates. Compliant to FDA CFR Part 175.300, NSF-51, and 3-A sanitary standards.

Beverage (B-44-3)—Flexible tubing has excellent nonwetting properties for complete drainage and simple flush cleaning.

Food, Milk, and Dairy (B-44-4X)—Smooth, nonporous bore helps minimize bacterial growth. Resists harsh cleaners and commonly used sanitizers.

			Beverage B-44-3		Food, Milk and Dairy B-44-4X	
Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.	Max. Pressure	Item No.
1/32"	3/32"	1/32"	—	—	100 psi	2LPW9
1/16"	1/8"	1/32"	70 psi	2LPR5	60 psi	2LPX1
1/16"	1/8"	1/16"	—	—	100 psi	2LPX2
1/16"	3/16"	1/16"	108 psi	2LPR6	—	—
3/32"	5/32"	1/32"	47 psi	2LPR7	43 psi	2LPX3
3/32"	7/32"	1/16"	78 psi	2LPR8	—	—
1/8"	3/16"	1/32"	45 psi	2LPR9	34 psi	2LPX4
1/8"	1/4"	1/16"	62 psi	2LPT1	60 psi	2LPX5
5/32"	7/32"	1/32"	31 psi	2LPT2	28 psi	2LPX6
5/32"	9/32"	1/16"	52 psi	2LPT3	50 psi	2LPX7
3/16"	1/4"	1/32"	34 psi	2LPT4	25 psi	2LPX8
3/16"	5/16"	1/16"	45 psi	2LPT5	43 psi	2LPX9
3/16"	3/8"	3/32"	62 psi	2LPT6	—	—
3/16"	7/16"	1/8"	78 psi	2LPT7	—	—
1/4"	5/16"	1/32"	28 psi	2LPT8	—	—
1/4"	3/8"	1/16"	36 psi	2LPT9	34 psi	2LPY1
1/4"	7/16"	3/32"	49 psi	2LPU1	47 psi	2LPY2
1/4"	1/2"	1/8"	62 psi	2LPU2	60 psi	2LPY3
5/16"	7/16"	1/16"	30 psi	2LPU3	28 psi	2LPY4
5/16"	1/2"	3/32"	41 psi	2LPU4	40 psi	2LPY5
5/16"	9/16"	1/8"	52 psi	2LPU5	—	—
3/8"	1/2"	1/16"	26 psi	2LPU6	25 psi	2LPY7
3/8"	9/16"	3/32"	36 psi	2LPU7	34 psi	2LPY8
3/8"	5/8"	1/8"	45 psi	2LPU8	44 psi	2LPY9
7/16"	11/16"	1/8"	39 psi	2LPU9	—	—
1/2"	5/8"	1/16"	20 psi	2LPV1	19 psi	2LPZ1
1/2"	11/16"	3/32"	28 psi	2LPV2	27 psi	2LPZ2
1/2"	3/4"	1/8"	36 psi	2LPV3	34 psi	2LPZ3
1/2"	13/16"	5/32"	—	—	40 psi	2LPZ4
5/8"	13/16"	3/32"	—	—	23 psi	2LPZ5
5/8"	7/8"	1/8"	30 psi	2LPV4	29 psi	2LPZ6
5/8"	15/16"	5/32"	—	—	35 psi	2LPZ7
3/4"	1"	1/8"	26 psi	2LPV6	25 psi	2LPZ8
3/4"	1 1/16"	5/32"	—	—	30 psi	2LPZ9
3/4"	1 1/4"	3/16"	—	—	34 psi	2LRA1
3/4"	1 1/4"	1/4"	—	—	43 psi	2LRA2
7/8"	1 1/8"	1/8"	23 psi	2LPV7	—	—
7/8"	1 1/4"	1/8"	—	—	22 psi	2LRA3
1"	1 1/4"	1/8"	20 psi	2LPV8	20 psi	2LRA4
1"	1 3/8"	3/16"	28 psi	2LPV9	27 psi	2LRA6
1"	1 1/2"	1/4"	36 psi	2LPW1	34 psi	2LRA7
1 1/8"	1 3/8"	1/8"	—	—	18 psi	2LRA8
1 1/4"	1 1/2"	1/8"	17 psi	2LPW2	—	—
1 1/4"	1 5/8"	3/16"	24 psi	2LPW3	23 psi	2LRA9
1 1/4"	1 3/4"	1/4"	30 psi	2LPW4	—	—
1 1/2"	1 7/8"	3/16"	20 psi	2LPW5	—	—
1 1/2"	2"	1/4"	26 psi	2LPW6	25 psi	2LRC1
1 3/4"	2 1/4"	1/4"	23 psi	2LPW7	—	—

Reinforced PVC Tubing

GA GRAINGER APPROVED

- Hardness: Shore A73
- Clear color

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

PVC, Flexible and Spiraled Polyester Yarn—For use in potable water transfer lines, air and water lines, and dairy processing.

- Temp. range: 25° to 155°F



No. 4HM05

PVC with Wire Helix—Spiral wire reinforcement prevents kinking and collapsing; maintains full vacuum ratings.

- Temp. range: 25° to 150°F

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Length	Item No.
PVC, Flexible					
1½"	1 5⁄16"	¼"	100 psi @ 70°F	50 ft.	**2LZD8**
2"	2½"	¼"	75 psi @ 70°F	50 ft.	**2LZD9**
4.00mm	9.00mm	2.50mm	250 psi @ 70°F	100 ft.	**2LZE4**
6.00mm	11.00mm	2.50mm	250 psi @ 70°F	100 ft.	**2LZE5**
8.00mm	13.50mm	2.75mm	250 psi @ 70°F	100 ft.	**2LZE6**
10.00mm	16.00mm	2.50mm	225 psi @ 70°F	100 ft.	**2LZE7**
12.00mm	18.00mm	3.00mm	200 psi @ 70°F	100 ft.	**2LZE8**
19.00mm	26.00mm	3.50mm	150 psi @ 70°F	100 ft.	**2LZE9**
PVC with Spiraled Polyester Yarn, Flexible					
¼"	7⁄16"	3⁄32"	250 psi @ 70°F	100 ft.	**4HM03**
5⁄16"	17⁄32"	7⁄64"	250 psi @ 70°F	100 ft.	**1PBK7**
⅜"	0.594"	0.109"	225 psi @ 70°F	100 ft.	**4HM04**
½"	¾"	⅛"	200 psi @ 70°F	100 ft.	**4HM05**
5⁄8"	0.891"	0.133"	200 psi @ 70°F	100 ft.	**1PBK8**
¾"	1 1⁄32"	0.141"	150 psi @ 70°F	100 ft.	**4HM06**
1"	1.300"	0.150"	125 psi @ 70°F	100 ft.	**4HM07**
1 1⁄4"	1 3⁄8"	0.185"	125 psi @ 70°F	100 ft.	**1PBK9**
1½"	1 15⁄16"	0.219"	100 psi @ 70°F	100 ft.	**1PBL1**

PVC with Wire Helix and Yarn Reinforcement, Flexible—For vacuum and/or higher-pressure applications. Steel wire dissipates static; yarn reinforcement allows higher working pressure.

- Temp. range: 15° to 150°F

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Length	Item No.
PVC with Wire Helix					
1 1⁄4"	1 39⁄64"	3⁄16"	70 psi @ 70°F	50 ft.	**2LZE1** †
1½"	1 7⁄8"	3⁄16"	50 psi @ 70°F	50 ft.	**2LZE2** †
2"	2 25⁄64"	3⁄16"	50 psi @ 70°F	50 ft.	**2LZE3** †
PVC with Wire Helix, Flexible					
¼"	15⁄32"	7⁄64"	150 psi @ 70°F	100 ft.	**1PBL2**
⅜"	39⁄64"	⅛"	100 psi @ 70°F	100 ft.	**1PBL3**
½"	¾"	⅛"	100 psi @ 70°F	100 ft.	**1PBL4**
¾"	1 1⁄32"	0.141"	70 psi @ 70°F	100 ft.	**1PBL5**
1"	1.297"	0.149"	70 psi @ 70°F	100 ft.	**1PBL6**
PVC with Wire Helix and Yarn Reinforcement, Flexible					
½"	29⁄32"	13⁄64"	250 psi @ 70°F	100 ft.	**4EGR3**
¾"	1 3⁄16"	13⁄64"	225 psi @ 70°F	100 ft.	**4EGR4**
1"	1.464"	0.232"	225 psi @ 70°F	100 ft.	**4EGR5**
1 1⁄4"	1 3⁄4"	17⁄64"	175 psi @ 70°F	50 ft.	**4EGR6**
1½"	2"		175 psi @ 70°F	50 ft.	**4EGR7**
2"	2 39⁄64"	15⁄16"	150 psi @ 70°F	50 ft.	**4EGR8**

** Working pressure decreases as temperature increases.*
† UV-resistant.

SAINT-GOBAIN

Tygon S3™ E-3603 Lab Tubing



- Temp. range: -51° to 165°F
- Hardness: Shore A56
- Clear color

Features excellent chemical resistance and smooth, polished inner wall construction to ease cleaning. Less permeable than rubber tubing and contains no BPA or phthalates. For use with desiccators, incubators, and as gas and drain lines in general laboratory, beverage, and food applications. EU Food Contact regulation. Meets FDA, Class IV, and NSF 51. Additional sizes available on Grainger.com®.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Length	Item No.
Standard					
1⁄32"	3⁄32"	1⁄32"	69 psi	50 ft.	**22XH28**
1⁄16"	1⁄8"	1⁄32"	36 psi	50 ft.	**22XH29**
3⁄32"	5⁄32"	1⁄32"	25 psi	50 ft.	**22XH31**
	7⁄32"	1⁄16"	47 psi	50 ft.	**22XH33**
⅛"	¼"	1⁄16"	36 psi	100 ft.	**22XH34**
	¼"	1⁄16"	45 psi	10 ft.	**22XH73**
5⁄32"	9⁄32"	1⁄16"	30 psi	50 ft.	**22XH36**
	9⁄32"	1⁄16"	30 psi	100 ft.	**22XH37**
3⁄16"	5⁄16"	1⁄16"	25 psi	100 ft.	**22XH38**
	5⁄16"	1⁄16"	30 psi	10 ft.	**22XH74**
	⅜"	3⁄32"	36 psi	50 ft.	**22XH39**
¼"	⅜"	1⁄16"	20 psi	100 ft.	**22XH40**
	⅜"	1⁄16"	25 psi	10 ft.	**22XH75**
	½"	⅛"	36 psi	100 ft.	**22XH41**
	½"	⅛"	40 psi	10 ft.	**22XH76**
5⁄16"	5⁄8"	3⁄32"	36 psi	50 ft.	**22XH42**
⅜"	½"	1⁄16"	20 psi	10 ft.	**22XH77**
	⅞"	¼"	47 psi	50 ft.	**22XH68**
	⅞"	¼"	50 psi	10 ft.	**22XH83**
½"	5⁄8"	1⁄16"	10 psi	10 ft.	**22XH78**
	11⁄16"	3⁄32"	15 psi	100 ft.	**22XH45**
	13⁄16"	5⁄32"	24 psi	50 ft.	**22XH46**
	1 1⁄8"	5⁄16"	45 psi	50 ft.	**22XH69**
9⁄16"	¾"	3⁄32"	14 psi	50 ft.	**22XH47**
	13⁄16"	⅛"	18 psi	50 ft.	**22XH48**
11⁄16"	⅞"	3⁄32"	12 psi	50 ft.	**22XH50**
¾"	1"	⅛"	18 psi	10 ft.	**22XH79**
	1 1⁄16"	5⁄32"	17 psi	50 ft.	**22XH51**
	1 1⁄8"	3⁄16"	20 psi	50 ft.	**22XH52**
⅞"	1 1⁄8"	⅛"	13 psi	50 ft.	**22XH54**
1"	1 1⁄4"	⅛"	15 psi	10 ft.	**22XH80**
	1 3⁄8"	3⁄16"	16 psi	50 ft.	**22XH56**
	1½"	¼"	20 psi	50 ft.	**22XH57**
1 1⁄8"	1½"	3⁄16"	14 psi	50 ft.	**22XH58**
1 1⁄4"	1½"	⅛"	10 psi	50 ft.	**22XH59**
1½"	2"	¼"	14 psi	50 ft.	**22XH62**
Metric					
2.00mm	4.00mm	1.00mm	2.5 psi	49 ft.	**22XH86**
3.00mm	5.00mm	1.00mm	1.7 psi	49 ft.	**22XH87**
4.00mm	6.00mm	1.00mm	1.4 psi	49 ft.	**22XH88**
5.00mm	8.00mm	1.50mm	1.6 psi	49 ft.	**22XH89**
6.00mm	9.00mm	1.50mm	1.4 psi	49 ft.	**22XH90**
8.00mm	12.00mm	2.00mm	25 psi at 73°F	49 ft.	**22XH91**

** Working pressure decreases as temperature increases.*



GA GRAINGER APPROVED

Laboratory and Chemical-Resistant PVC Tubing

- Clear color

FDA Approved; meets CFR 21 175.300.

Laboratory—Highly flexible, high-strength tubing is an excellent alternative to latex and is more cost-effective than silicone. Can be used in peristaltic pumping applications. Withstands autoclaving and repeated gamma sterilization. Ideal for medical devices and laboratory fluid systems, as well as paint, pigment, and soap dispensing.

- Temp. range: -65° to 140°F
- Hardness: Shore A55
- 50-ft. length

Chemical-Resistant—Excellent for peristaltic pumping applications and works well with barbed fittings, even with repeated use. Can be autoclaved or gas sterilized. For transferring, draining, and pumping chemicals, food products, and corrosive materials such as bleach.

- Temp. range: -65° to 160°F
- Hardness: Shore A60
- 100-ft. length

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Item No.
Laboratory				
¼"	⅜"	1⁄16"	25 psi	**4VUP7**
5⁄16"	7⁄16"	1⁄16"	20 psi	**4VUP9**
⅜"	½"	1⁄16"	20 psi	**4VUR2**
½"	5⁄8"	1⁄16"	10 psi	**4VUR7**
½"	¾"	⅛"	25 psi	**4VUR8**
5⁄8"	⅞"	⅛"	20 psi	**4VUR9**
1"	1 1⁄4"	⅛"	25 psi	**4VUT2**
Chemical Resistant				
⅛"	¼"	1⁄16"	62 psi	**4VUU8**
3⁄16"	5⁄16"	1⁄16"	45 psi	**4VUV2**
¼"	⅜"	1⁄16"	36 psi	**4VUV4**
¼"	7⁄16"	3⁄32"	49 psi	**4VUV5**
⅜"	½"	1⁄16"	26 psi	**4VUV8**
⅜"	9⁄16"	3⁄32"	36 psi	**4VUW1**
⅜"	5⁄8"	⅛"	45 psi	**4VUW2**
½"	5⁄8"	1⁄16"	20 psi	**4VUW4**
½"	¾"	⅛"	36 psi	**4VUW5**
5⁄8"	⅞"	⅛"	30 psi	**4VUW6**
¾"	1"	⅛"	26 psi	**4VUW7**
¾"	1 3⁄8"	3⁄16"	28 psi	**4VUW9**
1"	1 1⁄4"	⅛"	20 psi	**4VUW8**
1"	1½"	¼"	36 psi	**4VUX1**
1 1⁄4"	1 3⁄8"	3⁄16"	24 psi	**4VUX2**
1½"	2"	¼"	26 psi	**4VUX3**
2"	2½"	¼"	20 psi	**4VUX4**

** Working pressure decreases as temperature increases.*

(Containers not included)



SAINT-GOBAIN

Tygon® F-4040-A Fuel and Lubricant Tubing

- Max. temp.: 165°F
- Hardness: Shore A57
- Yellow color
- 50-ft. length

Handles most fuels and industrial lubricants; resists hardening and swelling caused by hydrocarbon-based fluids. Tubing is highly flexible and easy to install.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
5⁄64"	9⁄64"	5⁄64"	40 psi	**12X199**
3⁄32"	3⁄16"	3⁄64"	50 psi	**12X201**
⅛"	¼"	1⁄16"	50 psi	**12X202**
3⁄16"	5⁄16"	1⁄16"	35 psi	**12X203**
¼"	⅜"	1⁄16"	30 psi	**12X204**
5⁄16"	7⁄16"	1⁄16"	25 psi	**12X205**
⅜"	½"	1⁄16"	20 psi	**12X206**
⅜"	5⁄8"	⅛"	35 psi	**12X207**
7⁄16"	9⁄16"	⅛"	15 psi	**12X208**
½"	5⁄8"	1⁄16"	15 psi	**12X209**
½"	¾"	⅛"	30 psi	**12X210**
5⁄8"	⅞"	⅛"	25 psi	**12X211**
¾"	1"	⅛"	20 psi	**12X212**

SAINT-GOBAIN

No. 2DBZ2



Versilon™ 2001 Tubing

- Temp. range: -108° to 135°F
- Hardness: Shore A69
- 50-ft. length
- Clear color

Plasticizer- and oil-free with low compression set properties of thermoset rubber, but won't dry out and crack. Longer service life with fewer tubing changes and reduced downtime. Superior flex life with peristaltic pumps. Ideal for soap and detergent dispensing, water purification, food contact, and chemical transfer applications. Meets FDA standards for food contact.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
1⁄16"	3⁄16"	1⁄16"	45 psi @ 73°F	**2DBZ2**
⅛"	¼"	1⁄16"	30 psi @ 73°F	**2DBZ4**
3⁄16"	5⁄16"	1⁄16"	22 psi @ 73°F	**2DBZ6**
¼"	⅜"	1⁄16"	17 psi @ 73°F	**2DBZ8**
5⁄16"	7⁄16"	1⁄16"	14 psi @ 73°F	**2DCA1**
⅜"	½"	1⁄16"	12 psi @ 73°F	**2DCA3**
½"	¾"	⅛"	16 psi @ 73°F	**2DCA5**
5⁄8"	⅞"	⅛"	13 psi @ 73°F	**2DCA7**
¾"	1"	⅛"	11 psi @ 73°F	**2DCA9**
1"	1 3⁄8"	3⁄16"	13 psi @ 73°F	**2DCB2**

50-, 100-, and 250-ft. Polyurethane Tubing ★GA GRAINGER APPROVED

Strong, flexible tubing is 5 to 10 times more wear- and abrasion-resistant than rubber hose, and lighter weight. Use with push-to-connect fittings with no tube support. Nonmarking; resist algae growth. For air and water lines, robotics, carwash, and painting equipment.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Black Item No.	Green Item No.	Light Blue Item No.	Red Item No.	Translucent Blue Item No.	Yellow Item No.
Shore A: 98, Temp.: -40° to 160°F									
250 ft.									
1/4"	3/8"	1/16"	150 psi	—	—	—	5MPV1	—	5MPV0
21/64"	1/2"	3/32"	150 psi	—	—	—	5MPV3	—	5MPV2
2.5mm	4mm	.75mm	200 psi	—	—	—	5MPV6	—	5MPV5
5mm	8mm	1.5mm	175 psi	—	5MPV7	—	5MPV9	—	5MPV8
6.5mm	10mm	1.75mm	150 psi	—	5MPW0	—	5MPW2	—	5MPW1
8mm	12mm	2mm	150 psi	—	5MPW3	—	5MPW5	—	5MPW4
Shore A: 98, Temp.: -68° to 140°F									
50 ft.									
3/32"	5/32"	1/32"	200 psi	—	2LZG8	2LZF2	2LZF7	—	2LZG3
5/32"	1/4"	3/64"	180 psi	—	2LZG9	2LZF3	2LZF8	—	2LZG4
1/4"	3/8"	1/16"	150 psi	—	2LZH1	2LZF4	2LZF9	—	2LZG5
21/64"	1/2"	3/32"	150 psi	—	2LZH2	2LZF5	2LZG1	—	2LZG6
100 ft.									
3/32"	5/32"	1/32"	200 psi	1PBL9	2LZH4	—	1CTF8	—	1CTG4
5/32"	1/4"	3/64"	180 psi	—	2LZH5	—	1CTF9	—	1CTG5
1/4"	3/8"	1/16"	150 psi	1PBN2	2LZH6	—	1CTG1	—	1CTG6
21/64"	1/2"	3/32"	150 psi	1PBN3	2LZH7	—	1CTG2	—	1CTG7
2.5mm	4mm	.75mm	200 psi	—	—	—	1CTG9	—	1CTG8
		.75mm	200 psi	1PBR5	—	—	—	1PBR3	—
4mm	6mm	1mm	180 psi	1PBR7	—	—	1CTH2	1PBR6	1CTH1
		1mm	200 psi	—	2LZJ5	—	—	—	—
5mm	8mm	1.5mm	175 psi	—	—	—	—	1PBR8	—
		1.5mm	175 psi	1PBR9	2LZJ6	—	1CTH4	—	1CTH3
6.5mm	10mm	1.75mm	150 psi	1PBT2	2LZJ7	—	1CTH6	1PBT1	1CTH5
8mm	12mm	2mm	150 psi	1PBT6	2LZJ8	—	1CTH8	1PBT4	1CTH7
250 ft.									
3/32"	5/32"	1/32"	200 psi	1PBP6	2LZH9	—	—	1PBN6	—
5/32"	1/4"	3/64"	180 psi	1PBP8	2LZJ1	—	—	1PBN7	—
1/4"	3/8"	1/16"	150 psi	1PBR1	2LZJ2	—	—	1PBN9	—
21/64"	1/2"	3/32"	150 psi	1PBR2	2LZJ3	—	—	1PBP2	—
2.5mm	4mm	.75mm	200 psi	1PBU1	—	—	—	1PBT8	—
4mm	6mm	1mm	180 psi	1PBU5	—	—	—	1PBU3	—
5mm	8mm	1.5mm	175 psi	1PBU9	—	—	—	1PBU7	—
6.5mm	10mm	1.75mm	150 psi	1PBV4	—	—	—	1PBV2	—
8mm	12mm	2mm	150 psi	1PBV8	—	—	—	1PBV6	—
Shore A: 98, Temp.: -68° to 160°F									
100 ft.									
5/32"	1/4"	3/64"	180 psi	1PBN1	—	—	—	—	—
Temp.: -68° to 140°F									
1/16"	1/8"	1/32"	240 psi	—	—	—	—	4HL93	—
3/32"	5/32"	1/32"	200 psi	—	—	—	—	4HL95	—
5/32"	1/4"	3/64"	180 psi	—	—	—	—	4HL92	—
1/4"	3/8"	1/16"	150 psi	—	—	—	—	4HL94	—
21/64"	1/2"	3/32"	150 psi	—	—	—	—	4HL91	—

** Working pressure decreases as temp. increases.*



No. 1PBN7

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Brand	Item No.
Shore A: 86, Temp.: -40° to 170°F						
100 ft.						
1/16"	1/8"	1/32"	110 psi	Clear Blue	E. James	1LLN1
3/32"	5/32"	1/32"	86 psi	Clear Blue	E. James	1LLN2
1/8"	1/4"	1/16"	150 psi	Black	E. James	1PCU5
	1/4"	1/16"	150 psi	Clear Blue	E. James	1LLN3
	1/4"	1/16"	150 psi	Natural	E. James	1PCR3
5/32"	1/4"	1/25"	150 psi	Natural	E. James	1PCR4
	1/4"	1/16"	150 psi	Black	E. James	1PCU4
3/16"	5/16"	1/16"	96 psi	Black	E. James	1PCU6
	5/16"	1/16"	96 psi	Clear Blue	E. James	1LLN4
	5/16"	1/16"	96 psi	Natural	E. James	1PCR5
1/4"	3/8"	1/16"	73 psi	Black	E. James	1PCU7
	3/8"	1/16"	73 psi	Clear Blue	E. James	1LLN5
	3/8"	1/16"	73 psi	Natural	E. James	1PCR6
5/16"	7/16"	1/16"	66 psi	Clear Blue	E. James	1LLN7
	7/16"	1/16"	66 psi	Natural	E. James	1PCR7
3/8"	1/2"	1/16"	53 psi	Clear Blue	E. James	1LLN8
	1/2"	1/16"	53 psi	Natural	E. James	1PCR8
	5/8"	1/16"	48 psi	Clear Blue	E. James	1LLN9
1/2"	5/8"	1/16"	48 psi	Black	E. James	1PCU9
1"	1 1/4"	1/16"	45 psi	Natural	E. James	1PCU3
Shore A: 93, Shore D: 45, Temp.: -50° to 140°F						
100 ft.						
1/8"	1/4"	1/16"	456 psi	Natural	GA	2LZT1
5/32"	1/4"	3/64"	150 psi	Green	GA	2LZK6
11/64"	1/4"	3/64"	260 psi	Natural	GA	2LZT2
3/16"	5/16"	1/16"	340 psi	Natural	GA	2LZT3
1/4"	3/8"	1/16"	150 psi	Green	GA	2LZK7
	3/8"	1/16"	272 psi	Natural	GA	2LZT4
5/16"	7/16"	1/16"	228 psi	Natural	GA	2LZT5
3/8"	1/2"	1/16"	125 psi	Green	GA	2LZK8
	1/2"	1/16"	194 psi	Natural	GA	2LZT6
1/2"	5/8"	1/16"	151 psi	Natural	GA	2LZT7
19/32"	3/4"	5/64"	152 psi	Natural	GA	2LZT8
5/8"	3/4"	1/16"	123 psi	Natural	GA	2LZT9
3/4"	7/8"	1/16"	105 psi	Natural	GA	2LZU1
	1"	1/8"	195 psi	Natural	GA	2LZU2
13/16"	1"	3/32"	140 psi	Natural	GA	2LZU3
7/8"	1"	1/16"	90 psi	Natural	GA	2LZU4
1"	1 1/4"	1/8"	152 psi	Natural	GA	2LZU5
1 1/4"	1 1/2"	1/8"	124 psi	Natural	GA	2LZU6
1 1/2"	1 3/4"	1/8"	105 psi	Natural	GA	2LZU7
1 3/4"	2"	1/8"	91 psi	Natural	GA	2LZU8
2"	2 1/4"	1/8"	80 psi	Natural	GA	2LZU9

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Brand	Item No.
500 ft.						
3/8"	1/2"	1/16"	125 psi	Black	GA	2LZK3
	1/2"	1/16"	125 psi	Blue	GA	5MPT4
	1/2"	1/16"	125 psi	Green	GA	5MPT5
	1/2"	1/16"	125 psi	Green	GA	2LZL3
	1/2"	1/16"	125 psi	Natural	GA	2LZK2
	1/2"	1/16"	125 psi	Red	GA	5MPT2
	1/2"	1/16"	125 psi	Yellow	GA	5MPT6
1000 ft.						
5/32"	1/4"	3/64"	150 psi	Green	GA	2LZL1
1/4"	3/8"	1/16"	125 psi	Green	GA	2LZL2
Shore D: 55, Temp.: -50° to 140°F						
100 ft.						
5/32"	1/4"	1/16"	150 psi	Black	GA	1PBZ4
	1/4"	1/16"	150 psi	Blue	GA	1PBY3
	1/4"	1/16"	150 psi	Natural	GA	4HM13
	1/4"	1/16"	150 psi	Red	GA	1PBW1
	1/4"	1/16"	150 psi	Yellow	GA	1PBX2
1/4"	3/8"	1/16"	125 psi	Black	GA	1PBZ8
	3/8"	1/16"	125 psi	Blue	GA	1PBY7
	3/8"	1/16"	125 psi	Red	GA	1PBW5
	3/8"	1/16"	125 psi	Yellow	GA	1PBX6
	3/8"	1/16"	150 psi	Natural	GA	4HM15
3/8"	1/2"	1/16"	100 psi	Black	GA	1PCC3
	1/2"	1/16"	100 psi	Blue	GA	1PBZ2
	1/2"	1/16"	100 psi	Red	GA	1PBW9
	1/2"	1/16"	100 psi	Yellow	GA	1PBY1
	1/2"	1/16"	125 psi	Natural	GA	4HM12
2.5mm	4mm	1/32"	180 psi	Black	GA	2LZR5
	4mm	1/32"	180 psi	Natural	GA	2LZP9
4mm	6mm	1/32"	150 psi	Black	GA	2LZR6
	6mm	1/32"	150 psi	Natural	GA	2LZR1
6mm	8mm	1/32"	150 psi	Black	GA	2LZR7
	8mm	1/32"	150 psi	Natural	GA	2LZR2
8mm	10mm	1/32"	125 psi	Black	GA	2LZR8
	10mm	1/32"	125 psi	Natural	GA	2LZR3
9mm	12mm	1/16"	100 psi	Natural	GA	2LZR4
1000 ft.						
5/32"	1/4"	1/16"	150 psi	Black	GA	1PBZ6
	1/4"	1/16"	150 psi	Blue	GA	1PBY5
	1/4"	1/16"	150 psi	Red	GA	1PBW3
	1/4"	1/16"	150 psi	Yellow	GA	1PBX4
	1/4"	1/4"	150 psi	Natural	GA	4HM14
1/4"	3/8"	1/16"	125 psi	Black	GA	1PCC1
	3/8"	1/16"	125 psi	Blue	GA	1PBY9
	3/8"	1/16"	125 psi	Red	GA	1PBW7
	3/8"	1/16"	125 psi	Yellow	GA	1PBX8
	3/8"	1/16"	150 psi	Natural	GA	4HM16

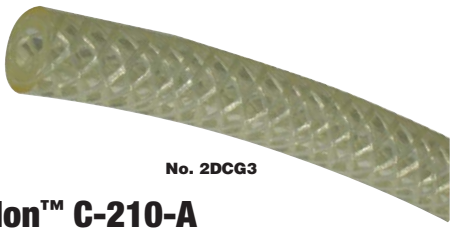


No. 1PCR3

Eldon James ★GA GRAINGER APPROVED

100-, 500- and 1000-ft. Polyethylene Tubing

High-density polyethylene tubing (HDPE) is chemical-resistant, and engineered to be harder and less flexible than LDPE, with better physical and chemical properties. Withstands sterilization by boiling. Use for air, water, or chemical transfer.



No. 2DCG3

Versilon™ C-210-A and C-544-A I.B. Polyurethane Tubing

SAINT-GOBAIN

- Clear color

Designed to handle the most demanding applications, including those that require a tight bend radius. Remains flexible in subzero temperatures. Excellent abrasion and tear resistance. For fluid transfer in food and beverage, environmental, chemical processing, industrial, peristaltic pump, semiconductor processing, and similar applications. Compliant to FDA 21CFR and Reach Compliant.

C-544-A I.B.
- Temp. range: -100° to 180°F
- Hardness: Shore A85

Tough braid reinforcements handle higher working pressures and allow greater flexibility than many other reinforced urethane tubings. Ideal for abrasive and viscous slurry transfer.

C-210-A
- Temp. range: -100° to 175°F
- Hardness: Shore A82

Chemical-, oil-, grease-, solvent-, and abrasion-resistant with excellent wear properties.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Length	Item No.
Braided					
C-544-A.I.B.					
1/8"	3/8"	1/8"	420 psi	100 ft.	**2DCG3**
1/4"	1/2"	1/8"	275 psi	100 ft.	**2DCG4**
3/8"	5/8"	1/8"	205 psi	100 ft.	**2DCG5**
1/2"	3/4"	1/8"	195 psi	100 ft.	**2DCG6**
5/8"	7/8"	1/8"	175 psi	100 ft.	**2DCG7**
3/4"	1 1/16"	5/32"	150 psi	100 ft.	**2DCG8**
1"	1 3/8"	3/16"	120 psi	100 ft.	**2DCG9**
1 1/4"	1 3/4"	1/4"	95 psi	50 ft.	**2DCH1**
1 1/2"	2"	1/4"	80 psi	50 ft.	**2DCH2**
2"	2 1/2"	1/4"	70 psi	50 ft.	**2DCH3**
Unbraided					
C-210-A					
1/16"	1/8"	1/32"	70 psi	100 ft.	**2LRE1**
1/8"	3/16"	1/32"	45 psi	100 ft.	**2LRE2**
	1/4"	1/16"	74 psi	100 ft.	**2LRE3**
3/16"	1/4"	1/32"	34 psi	100 ft.	**2LRE4**
	5/16"	1/16"	56 psi	100 ft.	**2LRE5**
	3/8"	3/32"	70 psi	100 ft.	**2LRE6**
7/16"	11/16"	1/8"	49 psi	100 ft.	**2NYW6**
1/4"	5/16"	1/32"	28 psi	100 ft.	**2LRE7**
	3/8"	1/16"	42 psi	100 ft.	**2LRE8**
	7/16"	3/32"	58 psi	100 ft.	**2LRE9**
	1/2"	1/8"	70 psi	100 ft.	**2LRF1**
5/16"	7/16"	1/16"	36 psi	100 ft.	**2LRF2**
3/8"	1/2"	1/16"	34 psi	100 ft.	**2LRF3**
	9/16"	3/32"	45 psi	100 ft.	**2LRF4**
	5/8"	1/8"	54 psi	100 ft.	**2LRF5**
7/16"	5/8"	3/32"	40 psi	100 ft.	**2LRF6**
1/2"	5/8"	1/16"	26 psi	100 ft.	**2LRF7**
	11/16"	3/32"	36 psi	100 ft.	**2LRF8**
	3/4"	1/8"	46 psi	100 ft.	**2LRF9**
5/8"	3/4"	1/16"	24 psi	100 ft.	**2LRG1**
	13/16"	3/32"	32 psi	100 ft.	**2LRG2**
	7/8"	1/8"	38 psi	100 ft.	**2LRG3**
3/4"	15/16"	3/32"	26 psi	100 ft.	**2LRG4**
	1"	1/8"	33 psi	100 ft.	**2LRG5**
1"	1 1/4"	1/8"	28 psi	100 ft.	**2LRG6**



No. 2LZP7

GA GRAINGER APPROVED

250- and 500-ft. Flame-Retardant Polyethylene Tubing

- Temp. range: -50° to 140°F

Flame-retardant tubing is engineered to help resist flames and prevent smoke in the event of a fire.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Tube Bend Radius	Item No.
Shore A: 93, Shore D: 45						
250 ft.						
5/32"	1/4"	3/64"	100 psi	Black	2 in	**2LZN9**
5/32"	1/4"	3/64"	100 psi	Black with Blue Stripe	2 in	**2LZP5**
5/32"	1/4"	3/64"	100 psi	Black with Green Stripe	2 in	**2LZP4**
5/32"	1/4"	3/64"	100 psi	Black with Orange Stripe	2 in	**2LZP3**
5/32"	1/4"	3/64"	100 psi	Black with Red Stripe	2 in	**2LZP2**
5/32"	1/4"	3/64"	100 psi	Black with Violet Stripe	2 in	**2LZP6**
5/32"	1/4"	3/64"	100 psi	Black with White Stripe	2 in	**2LZP1**
1/4"	3/8"	1/16"	100 psi	Black	3 in	**2LZP7**
3/8"	1/2"	1/16"	70 psi	Black	4 in	**2LZP8**
500 ft.						
3/32"	5/32"	1/32"	100 psi	Black	1 in	**2LZN8**



Natural
No. 2VDL5



Blue
No. 2VDT5

GA GRAINGER APPROVED Eldon James

50-, 100-, and 250-ft. Nylon Tubing

High-strength nylon tubing is engineered to help provide long, leak-free service, while requiring little maintenance. It resists chemicals, humidity, and abrasion. Use in industrial applications such as packaging, conveyors, automation machines, and robotics.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Brand	Item No.
Shore D: 60						
50 ft.						
3/32"	1/8"	1/64"	267 psi @ 68°F	Natural	GA	**2VDL5**
7/64"	5/32"	1/32"	333 psi @ 68°F	Black	GA	**2VDK8**
	5/32"	1/32"	333 psi @ 68°F	Natural	GA	**2VDL6**
11/64"	1/4"	1/32"	400 psi @ 68°F	Black	GA	**2VDL1**
	1/4"	1/32"	400 psi @ 68°F	Blue	GA	**2VDT6**
	1/4"	1/32"	400 psi @ 68°F	Natural	GA	**2VDL8**
	1/4"	1/32"	400 psi @ 68°F	Red	GA	**2VDU3**
15/64"	5/16"	3/64"	333 psi @ 68°F	Black	GA	**2VDL2**
	5/16"	3/64"	333 psi @ 68°F	Natural	GA	**2VDL9**
9/32"	3/8"	1/20"	333 psi @ 68°F	Black	GA	**2VDL3**
	3/8"	1/20"	333 psi @ 68°F	Natural	GA	**2VDN1**
	3/8"	1/2"	333 psi @ 68°F	Blue	GA	**2VDT8**
3/8"	1/2"	1/16"	267 psi @ 68°F	Black	GA	**2VDL4**
	1/2"	1/16"	267 psi @ 68°F	Natural	GA	**2VDN2**
100 ft.						
3/32"	1/8"	1/64"	267 psi @ 68°F	Black	GA	**2VDP1**
	1/8"	1/64"	267 psi @ 68°F	Natural	GA	**2VDN3**
7/64"	5/32"	1/32"	333 psi @ 68°F	Black	GA	**2VDP2**
	5/32"	1/32"	333 psi @ 68°F	Natural	GA	**2VDN4**
9/64"	3/16"	1/32"	267 psi @ 68°F	Natural	GA	**2VDN5**
11/64"	1/4"	1/32"	400 psi @ 68°F	Black	GA	**2VDP4**
	1/4"	1/32"	400 psi @ 68°F	Blue	GA	**2VDW3**
	1/4"	1/32"	400 psi @ 68°F	Green	GA	**2VDX6**
	1/4"	1/32"	400 psi @ 68°F	Natural	GA	**2VDN6**
	1/4"	1/32"	400 psi @ 68°F	Red	GA	**2VDW9**
	1/4"	1/32"	400 psi @ 68°F	Yellow	GA	**2VDY3**
15/64"	5/16"	3/64"	333 psi @ 68°F	Black	GA	**2VDP5**
	5/16"	3/64"	333 psi @ 68°F	Natural	GA	**2VDN7**
9/32"	3/8"	3/64"	333 psi @ 68°F	Natural	GA	**2VDN8**
	3/8"	1/2"	333 psi @ 68°F	Black	GA	**2VDP6**
	3/8"	1/2"	333 psi @ 68°F	Blue	GA	**2VDW5**
3/8"	1/2"	1/16"	267 psi @ 68°F	Black	GA	**2VDP7**
	1/2"	1/16"	267 psi @ 68°F	Natural	GA	**2VDN9**
4mm	6mm	1/32"	400 psi @ 68°F	Black	GA	**2VDY8**
	6mm	1/32"	400 psi @ 68°F	Natural	GA	**2VDZ4**
8mm	10mm	1/32"	200 psi @ 68°F	Natural	GA	**2VDZ6**
250 ft.						
11/64"	1/4"	1/32"	400 psi @ 68°F	Black	GA	**2VDR9**
	1/4"	1/32"	400 psi @ 68°F	Natural	GA	**2VDR2**
9/32"	3/8"	1/2"	333 psi @ 68°F	Natural	GA	**2VDR4**
Shore D: 60 ±3						
50 ft.						
7/64"	5/32"	1/32"	333 psi @ 68°F	Blue	GA	**2VDT5**
9/64"	3/16"	1/32"	267 psi @ 68°F	Natural	GA	**2VDL7**
11/64"	1/4"	1/32"	400 psi @ 68°F	Yellow	GA	**2VDV6**
15/64"	5/16"	3/64"	333 psi @ 68°F	Blue	GA	**2VDT7**
	5/16"	3/64"	333 psi @ 68°F	Red	GA	**2VDU4**
9/32"	3/8"	3/64"	333 psi @ 68°F	Green	GA	**2VDV2**
100 ft.						
9/32"	3/8"	3/64"	333 psi @ 68°F	Red	GA	**2VDX2**
3/8"	1/2"	1/16"	267 psi @ 68°F	Green	GA	**2VDX9**
4mm	6mm	1/32"	400 psi @ 68°F	Blue	GA	**4HHF4**
10mm	12mm	1/32"	233 psi @ 68°F	Clear	GA	**2VDZ7**
250 ft.						
7/64"	5/32"	1/32"	333 psi @ 68°F	Black	GA	**2VDR7**
	5/32"	1/32"	333 psi @ 68°F	Blue	GA	**4HHD6**
	5/32"	1/32"	333 psi @ 68°F	Red	GA	**4HHD7**
11/64"	1/4"	1/32"	400 psi @ 68°F	Blue	GA	**4HHC7**
	1/4"	1/32"	400 psi @ 68°F	Green	GA	**4HHD1**
	1/4"	1/32"	400 psi @ 68°F	Red	GA	**4HHC8**
15/64"	5/16"	3/64"	333 psi @ 68°F	Black	GA	**2VDT1**
	5/16"	3/64"	333 psi @ 68°F	Natural	GA	**2VDR3**
	5/16"	3/64"	333 psi @ 68°F	Red	GA	**4HHE2**
9/32"	3/8"	3/64"	333 psi @ 68°F	Blue	GA	**4HHE5**
	3/8"	3/64"	333 psi @ 68°F	Yellow	GA	**4HHE7**
3/8"	1/2"	1/16"	267 psi @ 68°F	Black	GA	**2VDT3**
	1/2"	1/16"	267 psi @ 68°F	Natural	GA	**2VDR5**
Shore R: 121						
100 ft.						
5/64"	1/8"	1/32"	850 psi @ 70°F	Natural	E. James	**4CHA5**
3/32"	1/8"	1/64"	455 psi @ 70°F	Natural	E. James	**4CHA6**
7/64"	5/32"	1/32"	700 psi @ 70°F	Natural	E. James	**4CHA7**
	3/16"	1/32"	960 psi @ 70°F	Natural	E. James	**4CHA8**
9/64"	3/16"	1/32"	565 psi @ 70°F	Natural	E. James	**4CHA9**
5/32"	1/4"		920 psi @ 70°F	Natural	E. James	**4CHC1**
3/16"	1/4"	1/32"	550 psi @ 70°F	Natural	E. James	**4CHC3**
	5/16"	1/16"	910 psi @ 70°F	Natural	E. James	**4CHC2**
7/32"	3/8"	5/64"	920 psi @ 70°F	Natural	E. James	**4CHC4**
15/64"	5/16"	1/32"	465 psi @ 70°F	Natural	E. James	**4CHC5**
19/64"	3/8"	3/64"	440 psi @ 70°F	Natural	E. James	**4CHC7**
	1/2"	7/64"	980 psi @ 70°F	Natural	E. James	**4CHC6**
3/8"	1/2"	1/16"	500 psi @ 70°F	Natural	E. James	**4CHC8**
2.7mm	4mm	0.65mm	695 psi @ 70°F	Natural	E. James	**4CHC9**
3mm	5mm	1.00mm	900 psi @ 70°F	Natural	E. James	**4CHD1**
4mm	6mm	1.00mm	720 psi @ 70°F	Natural	E. James	**4CHD2**
6mm	8mm	1.00mm	570 psi @ 70°F	Natural	E. James	**4CHD3**
8mm	10mm	1.00mm	400 psi @ 70°F	Natural	E. James	**4CHD4**
10mm	12mm	1.00mm	325 psi @ 70°F	Natural	E. James	**4CHD5**

GA GRAINGER APPROVED

50-, 250- and 500-ft. High-Strength Nylon Tubing


No. 2VKR1

- Temp. range: -60° to 200°F

High tensile strength enhances coupling retention in high-pressure, -temperature, and -vibration environments. Designed for use with machine tool systems, marine control systems, and oil/chemical process lines.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Black Item No.	Natural Item No.
50 ft.					
3/32"	1/8"	1/64"	425 psi	2VKR2	2VKT5
9/64"	3/16"	1/32"	425 psi	2VKR4	2VKT7
3/16"	1/4"	1/32"	425 psi	2VKR6	2VKT9
15/64"	5/16"	3/64"	425 psi	2VKR8	2VKU2
9/32"	3/8"	3/64"	425 psi	2VKT1	2VKU4
3/8"	1/2"	1/16"	375 psi	2VKT3	2VKU6
250 ft.					
3/32"	1/8"	1/64"	425 psi	2VKR1	2VKT4
9/64"	3/16"	1/32"	425 psi	—	2VKT6
3/16"	1/4"	1/32"	425 psi	2VKR5	2VKT8
15/64"	5/16"	3/64"	425 psi	2VKR7	2VKU1
9/32"	3/8"	3/64"	425 psi	2VKR9	2VKU3
3/8"	1/2"	1/16"	375 psi	2VKT2	2VKU5
500 ft.					
9/64"	3/16"	1/32"	425 psi	2VKR3	—



GA GRAINGER APPROVED

50 Ft. PFA Fluoropolymer Tubing

- Natural color
- FDA Compliant resin, USP Class V1 Compliant, ASTM D.3307-10

Nonflammable, heat-resistant tubing helps protect against damage from most chemicals and solvents. The translucent tubing features high flexibility and a nonstick surface. Use PFA tubing for semiconductor, chemical processing, life science, food and beverage, environmental, and general industrial applications.

Inside Dia.	Outside Dia.	Wall Thickness	Tube Bend Radius	Max. Working Pressure @ 70°F	Item No.
Shore D: 50 to 60					
1/4"	3/8"	1/16"	1 1/4 in	320 psi	2VLV3
1/8"	1/4"	1/16"	1/2 in	500 psi	2VLU8
	3/16"	1/32"	5/8 in	320 psi	2VLU5
1/16"	1/8"	1/32"	3/8 in	500 psi	2VLU4
3/8"	1/2"	1/16"	3 in	230 psi	2VLV6
3/16"	1/4"	1/32"	7/8 in	230 psi	2VLU6
5/16"	3/8"	1/32"	3 1/4 in	140 psi	2VLV2
5/32"	1/4"	3/64"	1 in	370 psi	2VLU7
7/16"	1/2"	1/32"	4 3/4 in	100 psi	2VLV5
Shore D: 55 to 65					
3/8"	1/2"	1/16"	2 1/4 in	230 psi	53XL50
5/8"	3/4"	1/16"	4 1/8 in	140 psi	53XL51
5/32"	1/4"	3/64"	1/2 in	370 psi	53XL48
7/8"	1"	1/16"	8 in	100 psi	53XL52

Continental Industries, Inc. The Ultimate Connection

ENDOT

Buriable Gas Fittings and Tubing


No. 4EHG4 No. 4EHG7

TUBE FITTINGS

- Max. pressure: 125 psi
- Temp. range: -40 to 120°F

Use with PGA gas pipe, tubing, and all gas, plumbing, and propane applications. No tooling necessary. Have a permanent leak-proof joint; fully-retained gasket prevents cold flow. Meet ASTM D 2513 ASME B31.8-1995, DOT, NFPA, CSA, ICC, and IAPMO.

GAS TUBING

Underground Natural and LP Gas Tubing features polyethylene construction and is ideal for use in buried underground applications for natural gas and major components, such as propane and butane.

Material of Construc.	Pipe Size	Tube Size	Connection	Brand	Item No.
Tube Fittings					
3-Way Compression Tee					
Polyamide 11	1/2" CTS	5/8" OD	Tube	Continental	4EHG3
	3/4" IPS		Pipe	Continental	4EHG4
90° Anodeless Riser					
Steel	3/4"	3/4"	IPS x MPT	Continental	4EHJ6
	1"	1"	IPS x MPT	Continental	4EHJ7
Compression Elbow					
Polyamide 11	1/2" CTS	5/8" OD	Tube	Continental	4EHG5
	3/4" IPS		Pipe	Continental	4EHG6
Straight Female Adapter					
Steel	3/4"	3/4"	NPT x Pipe	Continental	4EHH8
	3/4"	1"	NPT x Pipe	Continental	4EHJ1
	1"	1"	NPT x Pipe	Continental	4EHJ2
	1/2"	1/2"	NPT x Tube	Continental	4EHH5
	3/4"	1/2"	NPT x Tube	Continental	4EHH6
Straight Full Coupling					
Polyamide 11	3/4" IPS		Pipe	Continental	4EHF9
	1" IPS		Pipe	Continental	4EHG1
Steel	3/4" IPS		Pipe	Continental	4EHJ4
	1/2" CTS	5/8" O.D.	Tube	Continental	4EHJ3
Straight Male Adapter					
Steel	3/4"	3/4"	NPT x Pipe	Continental	4EHH1
	3/4"	1"	NPT x Pipe	Continental	4EHH3
	1"	1"	NPT x Pipe	Continental	4EHH4
	1/2"	1/2"	PE Compression x MNPT	Continental	4EHG7
	3/4"	1/2"	PE Compression x MNPT	Continental	4EHG8

For Use With	Tube Size (in.)	Inside Dia.	Outside Dia.	Overall Length (in.)	Brand	Item No.
Tubing for Natural Gas/LP Gas Only						
Natural Gas Fittings Only	1/2	0.445"	5/8"	150 ft.	Endot	4EHF6
	1/2	0.445"	5/8"	500 ft.	Endot	4EHF7
	3/4	0.86"	1.05"	150 ft.	Endot	4EHF1
	1	1.07"	1.315"	150 ft.	Endot	4EHF3



GA GRAINGER APPROVED

PTFE Tubing

- Max. temp.: 500°F

Low friction coefficient allows higher flows and easier washdown; eliminates process-contaminating residue. Flexible, chemical resistant, nonflammable, and heat resistant. Superior dielectric strength and inert to most chemicals and solvents. For use in industrial, chemical processing, general laboratory, automotive, insulation, and food service applications.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Working Pressure @ 73 F	Tube Color	Tube Bend Radius	Item No.
Shore D: 50 to 65						
50 ft.						
1/16"	1/8"	1/32"	290 psi	Translucent	1/2 in	53XL53
3/32"	5/32"	1/32"	220 psi	Translucent	5/8 in	53XL61
1/8"	3/16"	1/32"	180 psi	Translucent	3/4 in	53XL54
	1/4"	1/16"	290 psi	Translucent	1/2 in	53XL56
3/16"	1/4"	1/32"	130 psi	Translucent	1 in	53XL55
	5/16"	1/16"	222 psi	Translucent	7/8 in	53XL62
1/4"	5/16"	1/32"	100 psi	Translucent	2 1/4 in	53XL57
	3/8"	1/16"	180 psi	Translucent	1 in	53XL59
5/16"	3/8"	1/32"	80 psi	Translucent	2 3/4 in	53XL58
	7/16"	1/16"	150 psi	Translucent	2 1/4 in	53XL64
3/8"	7/16"	1/32"	70 psi	Translucent	4 in	53XL63
	1/2"	1/16"	130 psi	Translucent	2 1/4 in	53XL60
7/16"	1/2"	1/32"	60 psi	Translucent	4 in	53XL65
	9/16"	1/16"	110 psi	Translucent	2 3/4 in	53XL67
1/2"	9/16"	1/32"	55 psi	Translucent	5 in	53XL66
	5/8"	1/16"	100 psi	Translucent	3 in	53XL69
9/16"	5/8"	1/32"	50 psi	Translucent	5 1/2 in	53XL68
5/8"	11/16"	1/32"	45 psi	Translucent	6 1/4 in	53XL70
11/16"	3/4"	1/32"	40 psi	Translucent	6 1/4 in	53XL71
3/4"	27/32"	13/32"	45 psi	Translucent	8 in	53XL72
1"	1 7/64"	1/16"	40 psi	Translucent	17 1/2 in	53XL73
Shore D: 55 to 65						
100 ft.						
1/8"	1/4"	1/16"	375 psi	Natural	3/4 in	1PCV4
5/32"	1/4"	3/64"	275 psi	Natural	3/4 in	1PCV3
3/16"	1/4"	1/32"	174 psi	Natural	3/4 in	1PCV2
1/4"	3/8"	1/16"	240 psi	Natural	3/4 in	1PCV5



SAINT-GOBAIN

50-ft. Neoprene Tubing

- Temp. range: -75° to 275°F
- Hardness: Shore A61

Tubing is engineered to provide excellent resistance to heat, ozone, abrasion, and inorganic fluid. It also resists damage from UV light, and offers longer service life than neoprene, EPDM, and other general-purpose tubing. Use in food and dairy processing applications, cosmetic production, hot beverage dispensing, water purification lines, sanitization delivery, soap dispensing, and pesticide and fertilizer delivery, as well as ink and toner feed lines and chemical transfer applications. Norprene tubing is heat-sealable, and can be joined without fittings.

Thermoplastic A-60-G Tubing—Black, abrasion resistant, and compatible with cleaners and sanitizers.

Norprene® A-60-F Tubing—Burst pressure: 1:5 ratio. Meets FDA food contact, 3-A sanitary standards, NSF-51.

Norprene® A-60-FI. B.—Ozone- and UV light-resistant. Burst pressure: 1:4 ratio. Meets FDA food contact, 3-A sanitary standards, NSF-51.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Thermoplastic Elastomer Norprene®, A-60-G Black Item No.	Norprene®, A-60-F Cream Item No.	Norprene®, A-60-F I.B. Cream Item No.
1/16"	3/16"	1/16"	34 psi @ 73°F	2DCC5	2LRC2	—
1/8"	1/4"	1/16"	19 psi @ 73°F	2DCC7	2LRC3	—
	3/8"	1/8"	34 psi @ 73°F	2DCC8	—	—
3/16"	5/16"	1/16"	13 psi @ 73°F	2DCC9	2LRC4	—
	3/8"	3/32"	19 psi @ 73°F	2DCD1	—	—
1/4"	3/8"	1/16"	10 psi @ 73°F	2DCD3	—	—
	7/16"	3/32"	15 psi @ 73°F	2DCD4	—	—
	1/2"	1/8"	19 psi @ 73°F	2DCD5	2LRC6	—
	1/2"	1/8"	125 psi @ 73°F	—	—	2LRD4
	5/8"	3/16"	26 psi @ 73°F	2DCD6	—	—
5/16"	7/16"	1/16"	8 psi @ 73°F	2DCD7	2LRC7	—
	1/2"	3/32"	12 psi @ 73°F	2DCD8	—	—
	13/16"	1/4"	28 psi @ 73°F	2DCD9	—	—
3/8"	1/2"	1/16"	7 psi @ 73°F	2DCE1	2LRC8	—
	9/16"	3/32"	10 psi @ 73°F	2DCE2	—	—
	5/8"	1/8"	13 psi @ 73°F	2DCE3	2LRC9	—
	5/8"	1/8"	105 psi @ 73°F	—	—	2LRD5
1/2"	5/8"	1/16"	6 psi @ 73°F	2DCE5	—	—
	11/16"	3/32"	8 psi @ 73°F	2DCE6	—	—
	3/4"	1/8"	10 psi @ 73°F	2DCE7	2LRD1	—
	3/4"	1/8"	100 psi @ 73°F	—	—	2LRD6
5/8"	7/8"	1/8"	8 psi @ 73°F	2DCE9	2LRD2	—
3/4"	1"	1/8"	7 psi @ 73°F	2DCF1	2LRD3	—

GA GRAINGER APPROVED



Tube Fastening Clips

- Temp. range: -40° to 212°F
- Polyacetal with ultraviolet inhibitors

Clips hold 1 or 2 lengths of material with uniform spacing. Clips snap onto hose, wire, pipe, or any circulating section item with just a quarter turn. Countersunk mounting holes.

Min. Dia. (in.)	Max. Dia. (in.)	Center Hole (in.)	Item No.	Pkg. Qty.
5/32	1/4	0.12	6ZF03	50
1/4	5/16	0.12	6ZF04	50
5/16	3/8	0.16	6ZF05	50
3/8	1/2	0.16	6ZF06	50
1/2	5/8	0.17	6ZF07	50
5/8	3/4	0.20	6ZF08	25
3/4	7/8	0.22	6ZF09	25
7/8	1	0.25	6ZF10	25

GA GRAINGER APPROVED

Kwikcut™ Hose, Tubing, and Plastic Pipe Cutters

High-carbon PTFE-coated steel blade slices easily through plastic tubing, rubber nonwire-reinforced hose, and Schedule 40 PVC pipe. Poly construction, except Nos. 34A524 and 34A526 have aluminum body. No. 2NYZ2 is for heavy pipe and conduit, including Schedule 80 PVC.





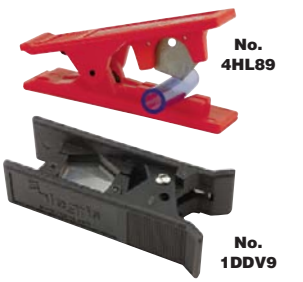
Tube Cap. (in.)	PVC Pipe Cap. (in.)	Overall Length (in.)	Cutting Action	Cutters Item No.
1	1	8½	Manual	4HL90
1½	1¼	8	Spring	2NYY9
1⅝	1¼	7½	Ratchet	34A524
1⅝	1⅝	9	Ratchet	34A526
1⅝	1⅝	10	Ratchet	2NYZ2
2	1¼	8	Spring	2TKV7

For Use With	Replacement Blades Item No.
Kwikcut™, For 4HL90	2NYZ4
Kwikcut™, For 2NYY9	2NYZ1
Kwikcut™, For 2TKV7	2TKV8
Kwikcut™, For 2NYZ2	2NYZ3

GA GRAINGER APPROVED

Tube Cutters

Slice easily through tubing materials such as nylon, PVC, and polyethylene. No. 4HL89 uses replacement blade No. 2TKV9 (sold separately in pkg. of 10).



Cap. (in.)	Overall Length (in.)	Cutters Item No.	Replacement Blade Item No.
Up to 5/8"	3	4HL89	2TKV9
1/8 to 1/2	3.11	1DDV9	—











WORTHINGTON SINCE 1955 · Oatey · HARRIS · WEILER · NOKORODE

Solder, Flux, and Brushes

Item	Application	Contents	Wire Dia. (in.)	Melting Range (Deg.)	Container Size	Brand	Item No.
Solder							
Lead Free Solder	General Plumbing and Potable Water Applications	Tin, Copper, Silver	0.118	440 to 482	1 lb.	Worthington	1UYG8
	General Plumbing and Potable Water Applications	Tin, Copper, Selenium	0.118	410 to 418	1 lb.	Worthington	1UYK9
	For All Lead-Free Soldering Needs	95% Tin, 5% Antimony	0.117	450 to 464	1 lb.	Oatey	41GP10
Solid Wire Solder	General Plumbing and Potable Water Applications	95% Tin, 5% Antimony	0.118	455 to 630	1 lb.	Worthington	1UYG9
	Used For Small Diameter and Tight Fitting Connections	95% Tin, 5% Antimony	0.125	452 to 464	8 oz.	Harris	3THF3
	Used Where Lead Bearing Solders are Prohibited	Nickel	0.125	460 to 630	8 oz.	Harris	3THF4
	Used For Jobs of 1" Diameter or Less, Joining Copper Pipes Quickly in Potable Water Systems	Nickel	0.125	450 to 555	1 lb.	Harris	3THF7
	Used For Joining Copper Pipes in Potable Water Systems	Nickel	0.125	438 to 729	1 lb.	Harris	3THE3
Leaded Solder	Non-Potable Water Applications	50% Lead, 50% Tin	0.125	445 to 500	1 lb.	Worthington	1UYH2
Solder Kit	Plumbing Repair Kit	Tin, Copper, Selenium	0.118		4 oz.	Worthington	1UYG5

Type	Material	Container Size	Brand	Item No.
Soldering Flux, Working Range 40 to 120°F				
Lead Free	Petrolatum	1.7 oz.	Nokorode	442Y43
		4 oz.		442Y44
		8 oz.		442Y45
		16 oz.		442Y46
Water Soluble	Paraffinic Oil	2 oz.		442Y47
		4 oz.		442Y48
		16 oz.		442Y49

Item	Brush Dia.	Brush Length	Overall Length	Brand	Item No.
Brushes					
Hand Held Applications					
Fitting Brush	1"	1¼"	1¼"	Worthington	1UYJ6
	5/8"	1"	8"		1UYJ3
Power Spiral Brush, for Cordless Drills					
Spiral Brush Tool	½"	1"	5¼"	Weiler	2ELZ5
	¾"	1"	5¼"		2ELZ6
	1"	1"	5¼"		2ELZ7
Spiral Brush Tool Kit	½", ¾", 1"	1"	5¼"		2ELZ4 *

** Kit includes 1 each of Nos. 2ELZ5, 2ELZ6, and 2ELZ7, and a quick-connect chuck.*

Submersible Sump Pumps

- Single phase
- Nonclog impeller design

Models operate while completely underwater to cool the pump motors so they can run longer without overheating, compared to upright/pedestal sump pumps that have motors above the sump pit. All 110V models are compatible with most standard U.S. residential electrical wall outlets and have a three prong/grounded power cord plug.

Note: Float switches and control panels sold separately. Check valves are on page 2627 and PVC pipe is on page 2811. For primer and PVC cement, see page 2819.

110 Volt Cast-Iron Body—The cast-iron body helps dissipate heat as the pump operates and some models have a switch to start and stop the pump motor. The painted or powder-coated finish protects the body from corrosion.

110 Volt Plastic Body—Plastic body won't corrode. All models, except No. 3YU65 have a switch that starts and stops the pump motor.

110 Volt Stainless Steel Body—Feature a stainless-steel body that's more corrosion resistant than cast iron and have a switch that starts and stops the pump motor. Unpainted finish.

110 Volt Aluminum Body—Lightweight aluminum body provides good corrosion resistance. Pumps have PSC motors with thermal protection.

110 Volt Cast-Bronze Body—Feature a cast-bronze body that is more corrosion resistant than cast iron and have a switch that starts and stops the pump motor. Unpainted finish.

220 Volt Cast-Iron Body—Higher-voltage pumps allow for larger motors that require less current than lower-voltage motors and the cast-iron body helps dissipate heat when the pump operates. No. 5CZG4 has a switch that starts and stops the pump motor. All pumps are compatible with most 220V U.S. wall outlets and have a painted or powder-coated finish to protect the body from corrosion.



110 Volt Plastic Body No. 3YU68



110 Volt Stainless Steel Body No. 1APP1



110 Volt Aluminum Body No. 1XHV7



110 Volt Cast-Bronze Body No. 2P548



220 Volt Cast-Iron Body No. 4NW37



110 Volt Cast-Iron Body No. 2P550

HP	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Base Material*	Impeller Material*	Max. Head	On Point	Off Point	Discharge	Max. Dia. Solids	Max. Liquid Temp.	Brand	Item No.
110 Volt Cast-Iron Body														
Integral														
1/6	Sensor	30.0 gpm	12"	10 ft.	PL	TPL	23.0 ft.	—	—	1½" FNPT	⅜"	104°F	Flint & Walling	**45HR07**
3/10	Vertical Float	34.0 gpm	18"	9 ft.	CI	CI	19.0 ft.	7¼"	3"	1½" FNPT	½"	130°F	Zoeller	**2P549**
	Vertical Float	34.0 gpm	18"	9 ft.	PP	Pw/MI	19.0 ft.	7¼"	3"	1½" FNPT	½"	130°F	Zoeller	**2P547**
	Vertical Float	34.0 gpm	18"	10 ft.	CI	CI	19.0 ft.	7¼"	3"	1½" FNPT	½"	130°F	Zoeller	**436R35**
1/3	Diaphragm	29.0 gpm	—	10 ft.	PP	N	18.0 ft.	7" to 10"	1" to 4"	1½" FNPT	⅛"	140°F	Little Giant	**3P639**
	Diaphragm	—	—	8 ft.	PP	N	18.0 ft.	—	—	1½" FNPT	⅛"	150°F	Little Giant	**24WN62**
	Vertical Float	35.0 gpm	12"	9 ft.	TPL	N	22.0 ft.	7¼"	3½"	1½" FNPT	½"	130°F	Goulds Water Technology	**462D15**
	Vertical Float	42.0 gpm	12"	25 ft.	TPL	N	22.0 ft.	7¼"	3½"	1½" FNPT	½"	130°F	Goulds Water Technology	**462D16**
	Vertical Float	50.0 gpm	18"	10 ft.	PP	N	28.0 ft.	8" to 11"	2" to 5"	1½" FNPT	½"	140°F	Little Giant	**53DH04**
1/2	Vertical Float	57.0 gpm	18"	10 ft.	PP	N	36.0 ft.	8" to 11"	2" to 5"	1½" FNPT	½"	140°F	Little Giant	**53DH06**
	Vertical Float	61.0 gpm	18"	15 ft.	CI	PL	23.0 ft.	9½"	3"	1½" FNPT	½"	130°F	Zoeller	**2P550**
	Vertical Float	68.0 gpm	18"	15 ft.	CI	TPL	26.0 ft.	9½"	2½"	1½" FNPT	½"	130°F	Zoeller	**436R36**
	Vertical Float	71.0 gpm	12"	15 ft.	CI	N	26.0 ft.	8½"	3"	1½" FNPT	½"	130°F	Goulds Water Technology	**462D17**
	Vertical Float	79.0 gpm	18"	10 ft.	CI	BZ, CI	26.0 ft.	10"	2¾"	1½" FNPT	⅝"	130°F	Zoeller	**2P551**
No Switch Included														
1/6	No Switch Included	30.0 gpm	12"	10 ft.	PL	TPL	23.0 ft.	—	—	1½" FNPT	⅜"	104°F	Flint & Walling	**45HR06**
3/10	No Switch Included	34.0 gpm	18"	9 ft.	CI	CI	19.0 ft.	—	—	1½" FNPT	½"	130°F	Zoeller	**5CZG5**
	No Switch Included	34.0 gpm	18"	9 ft.	PP	TPL	19.0 ft.	—	—	1½" FNPT	½"	130°F	Zoeller	**4NW36**
	No Switch Included	34.0 gpm	18"	20 ft.	PL	Pw/MI	19.0 ft.	—	—	1½" FNPT	½"	130°F	Zoeller	**4HEY1**
1/3	No Switch Included	29.0 gpm	—	10 ft.	PP	N	18.0 ft.	—	—	1½" FNPT	⅛"	140°F	Little Giant	**3P640**
	No Switch Included	43.0 gpm	12"	10 ft.	CI	CI	30.0 ft.	—	—	1½" FNPT	½"	104°F	Dayton	**4HU68**
	No Switch Included	50.0 gpm	18"	10 ft.	PP	N	28.0 ft.	—	—	1½" FNPT	½"	140°F	Little Giant	**53DH05**
	No Switch Included	57.0 gpm	—	15 ft.	CI	CI	30.0 ft.	—	—	1½" FNPT	½"	104°F	Dayton	**3BB73**
4/10	No Switch Included	42.0 gpm	—	25 ft.	PP	PP	23.0 ft.	—	—	1½" FNPT	⅛"	140°F	Little Giant	**3P642**
1/2	No Switch Included	57.0 gpm	12"	10 ft.	CI	CI	30.0 ft.	—	—	1½" FNPT	½"	104°F	Dayton	**4HU69**
	No Switch Included	61.0 gpm	18"	15 ft.	CI	PL	23.0 ft.	—	—	1½" FNPT	½"	130°F	Zoeller	**4NW38**
	No Switch Included	70.0 gpm	—	15 ft.	CI	CI	32.0 ft.	—	—	1½" FNPT	½"	104°F	Dayton	**3BB74**
	No Switch Included	79.0 gpm	18"	10 ft.	CI	BZ, CI	26.0 ft.	—	—	1½" FNPT	⅝"	130°F	Zoeller	**4NV97**
3/4	No Switch Included	101.0 gpm	—	15 ft.	CI	CI	37.0 ft.	—	—	1½" FNPT	½"	104°F	Dayton	**3BB75**
1	No Switch Included	80.0 gpm	18"	20 ft.	CI	TPL	50.0 ft.	—	—	1½" FNPT	¾"	130°F	Zoeller	**4NW01**
Piggyback														
1/4	Tether Float	33.0 gpm	12"	10 ft.	CI	CI	21.0 ft.	Variable†	Variable†	1½" FNPT	½"	104°F	Dayton	**4HU67**
1/3	Diaphragm	57.0 gpm	—	15 ft.	CI	CI	30.0 ft.	14½"	5"	1½" FNPT	½"	104°F	Dayton	**3BB78**
	Tether Float	43.0 gpm	—	10 ft.	CI	CI	30.0 ft.	Variable†	Variable†	1½" FNPT	½"	104°F	Dayton	**3BB68**
	Tether Float	57.0 gpm	—	15 ft.	CI	CI	30.0 ft.	Variable†	Variable†	1½" FNPT	½"	104°F	Dayton	**3BB76**
	Vertical Float	43.0 gpm	—	10 ft.	CI	CI	30.0 ft.	7¼"	3"	1½" FNPT	½"	104°F	Dayton	**3BB70**
	Vertical Float	57.0 gpm	—	15 ft.	CI	CI	30.0 ft.	7¼"	3"	1½" FNPT	½"	104°F	Dayton	**3BB81**
1/2	Diaphragm	70.0 gpm	—	15 ft.	CI	CI	32.0 ft.	14½"	5"	1½" FNPT	½"	104°F	Dayton	**3BB79**
	Tether Float	57.0 gpm	—	10 ft.	CI	CI	30.0 ft.	Variable†	Variable†	1½" FNPT	½"	104°F	Dayton	**3BB69**
	Tether Float	70.0 gpm	—	15 ft.	CI	CI	32.0 ft.	Variable†	Variable†	1½" FNPT	½"	104°F	Dayton	**3BB77**
	Vertical Float	57.0 gpm	—	10 ft.	CI	CI	30.0 ft.	7¼"	3"	1½" FNPT	½"	104°F	Dayton	**3BB71**
	Vertical Float	70.0 gpm	—	15 ft.	CI	CI	32.0 ft.	7¾"	3"	1½" FNPT	½"	104°F	Dayton	**3BB82**
3/4	Diaphragm	101.0 gpm	—	15 ft.	CI	CI	37.0 ft.	14½"	5"	1½" FNPT	½"	104°F	Dayton	**3BB80**
	Vertical Float	70.0 gpm	—	10 ft.	CI	CI	32.0 ft.	7¾"	3"	1½" FNPT	½"	104°F	Dayton	**3BB72**
1	Tether Float	80.0 gpm	18"	20 ft.	CI	TPL	50.0 ft.	Variable†	Variable†	1½" FNPT	¾"	130°F	Zoeller	**19T426**

** BZ = bronze, CI = cast iron, EP = engineered polymer, N = nylon, PA = polyamide, PC = polycarbonate, PL = plastic, Pw/MI = plastic with metal insert, PP = polypropylene, SS = stainless steel , TPL = thermoplastic. † Variable is manually set by the length of the float cord and float.*

CONTINUED

CONTINUED

Submersible Sump Pumps

HP	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Base Material*	Impeller Material*	Max. Head	On Point	Off Point	Discharge	Max. Dia. Solids	Max. Liquid Temp.	Brand	Item No.
110 Volt Plastic Body														
Integral														
¼	Sensor	—	—	24 ft.	—	N	15.0 ft.	—	—	1⅛"; ¾"; 1"	—	104°F	Rule	**3P994**
	Vertical Float	21.0 gpm	10"	10 ft.	PP	PA	21.0 ft.	4²⁹⁄₃₂"	1⁴⁹⁄₆₄"	1¼" MNPT	⅛"	104°F	Dayton	**3YU57**
⅓	Vertical Float	28.0 gpm	9"	10 ft.	PP	PA	26.0 ft.	4⅜"	1-77/100"	1¼" MNPT	⅛"	104°F	Dayton	**3YU58**
½	Vertical Float	36.0 gpm	8"	10 ft.	PP	PA	35.0 ft.	4²⁹⁄₃₂"	1⁴⁹⁄₆₄"	1¼" MNPT	⅛"	104°F	Dayton	**3YU59**
No Switch Included														
⅓	No Switch Included	23.0 gpm	8"	10 ft.	PP	PA	22.0 ft.	—	—	1¼" MNPT	⅛"	104°F	Dayton	**3YU65**
Piggyback														
¼	Tether Float	11.0 gpm	12"	10 ft.	PP	PA	20.0 ft.	11½"	6"	1¼" MNPT	⅛"	104°F	Dayton	**3YU66**
	Vertical Float	11.0 gpm	10"	10 ft.	PP	PA	20.0 ft.	8"	3½"	1¼" MNPT	⅛"	104°F	Dayton	**3YU69**
⅓	Tether Float	23.0 gpm	12"	10 ft.	PP	PA	22.0 ft.	11½"	6"	1¼" MNPT	⅛"	104°F	Dayton	**3YU67**
	Vertical Float	23.0 gpm	10"	10 ft.	PP	PA	22.0 ft.	8"	3½"	1¼" MNPT	⅛"	104°F	Dayton	**3YU70**
½	Tether Float	31.0 gpm	12"	10 ft.	PP	PA	25.0 ft.	11½"	6"	1¼" MNPT	⅛"	104°F	Dayton	**3YU68**
	Vertical Float	31.0 gpm	10"	10 ft.	PP	PA	25.0 ft.	8"	3½"	1¼" MNPT	⅛"	104°F	Dayton	**3YU71**
110 Volt Stainless Steel Body														
Integral														
½	Vertical Float	33.0 gpm	18"	15 ft.	CI	SS	10.0 ft.	1⁹⁄₆₄"	1⁹⁄₆₄"	1½" FNPT	1½"	95°F	Ez-Flo	**447P50**
Piggyback														
	Dual Micro Reed	50.0 gpm	8"	13 ft.	CI	PC	30.0 ft.	—	—	1½" FNPT	⅞"	104°F	Dayton	**1APP1**
⅓	Tether Float	8.0 gpm	12"	15 ft.	SS	SS	16.0 ft.	14"	7⁴⁵⁄₆₄"	1¼" MNPT	¾"	104°F	Dayton	**3YU74**
	Vertical Float	23.0 gpm	12"	10 ft.	PP	PA	22.0 ft.	6¹³⁄₆₄"	2⁹⁄₁₆"	1¼" MNPT	¼"	104°F	Dayton	**3YU72**
	Dual Micro Reed	65.0 gpm	8"	13 ft.	CI	PC	33.0 ft.	—	—	2" FNPT	⅞"	104°F	Dayton	**1APP2**
½	Tether Float	25.0 gpm	12"	15 ft.	SS	SS	23.0 ft.	15"	8⁵⁄₁₆"	1¼" MNPT	¾"	104°F	Dayton	**3YU75**
	Vertical Float	35.0 gpm	12"	10 ft.	PP	PA	25.0 ft.	6¹³⁄₆₄"	2⁹⁄₁₆"	1¼" MNPT	¼"	104°F	Dayton	**3YU73**
¾	Tether Float	34.0 gpm	12"	15 ft.	SS	SS	26.0 ft.	15⁴⁵⁄₆₄"	8½"	1¼" MNPT	¾"	104°F	Dayton	**3YU76**
110 Volt Aluminum Body														
No Switch Included														
⅓	No Switch Included	46.0 gpm	8"	13 ft.	CI	EP	29.0 ft.	—	—	1½" FNPT	¼"	104°F	Dayton	**1XHV6**
½	No Switch Included	61.0 gpm	11"	10 ft.	CI	EP	32.0 ft.	—	—	2" FNPT	¼"	104°F	Dayton	**1XHV7**
110 Volt Cast-Bronze Body														
Integral														
³⁄₁₀	Vertical Float	34.0 gpm	18"	9 ft.	PP	BZ	19.0 ft.	7¼"	3"	1½" FNPT	½"	130°F	Zoeller	**2P548**
³⁄₁₀	Diaphragm	42.0 gpm	—	10 ft.	PP	PP	23.0 ft.	7" to 10"	1" to 4"	1½" FNPT	⅛"	140°F	Little Giant	**3P641**
220 Volt Cast-Iron Body														
Integral														
½	Vertical Float	61.0 gpm	18"	15 ft.	CI	PL	23.0 ft.	9½"	3"	1½" FNPT	½"	130°F	Zoeller	**5CZG4**
No Switch Included														
³⁄₁₀	No Switch Included	34.0 gpm	18"	9 ft.	CI	CI	19.0 ft.	—	—	1½" FNPT	½"	130°F	Zoeller	**4NW37**
	No Switch Included	34.0 gpm	18"	20 ft.	CI	Pw/MI	19.0 ft.	5¾"	1½"	1½" FNPT	½"	130°F	Zoeller	**19T427**

** BZ = bronze, CI = cast iron, EP = engineered polymer, N = nylon, PA = polyamide, PC = polycarbonate, PL = plastic, Pw/MI = plastic with metal insert, PP = polypropylene, SS = stainless steel , TPL = thermoplastic. † Variable is manually set by the length of the float cord and float.*



Cast-Iron Body No. 4KU60



Stainless Steel Body No. 5URJ4



Cast-Bronze Body No. 4KU63



Plastic Body No. 4KU64

Pedestal Sump Pumps

- 115V
- Single phase
- Continuous-duty motors with TEFC enclosure, except Nos. 4KU60 to 4KU64 have PSC motors with ODP enclosure
- Stainless steel shaft, except No. 4KU64 is plastic

Pumps have a long rod with a float on the end to turn the switch on and off. Three prong/grounded power cord plug.

Note: A check valve is recommended, see page 2627, Additional float balls are available on page 2911. For replacement motors, see page 26.

Cast-Iron Body—Material efficiently disperses heat.

Stainless Steel Body—Offer good strength and corrosion resistance.

Cast-Bronze Body—Durable and corrosion resistant.

Plastic Body—ABS/plastic is lightweight and won't corrode.

HP	Flow Rate @ 10 Ft. of Head	Basket Dia.	Cord Length	Impeller Material*	Min. Sump Pit Dia.	On Point	Off Point	Discharge	Max. Head	Max. Dia. Solids	Max. Liquid Temp.	Item No.
Cast-Iron Body												
⅓	37.0 gpm	25"	10 ft.	SS	18"	13"-15"	5"	1¼" FNPT	18.0 ft.	⅜"	140°F	**4KU60**
	44.0 gpm	27"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URH7**
	44.0 gpm	38¾"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URH8**
½	48.0 gpm	25"	10 ft.	SS	18"	13"-15"	5"	1¼" FNPT	22.0 ft.	⅜"	140°F	**4KU61**
	72.0 gpm	33"	8 ft.	CI	18"	11"	4"	2" FNPT	20.0 ft.	¾"	200°F	**5URJ5**
	72.0 gpm	45"	8 ft.	CI	18"	11"	4"	2" FNPT	20.0 ft.	¾"	200°F	**5URJ6**
Stainless Steel Body												
⅓	44.0 gpm	33"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URJ1**
	44.0 gpm	45"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URJ2**
½	58.0 gpm	33"	8 ft.	SS	18"	11"	4"	1¼" FNPT	22.0 ft.	7⁄16"	200°F	**5URJ3**
	58.0 gpm	45"	8 ft.	SS	18"	11"	4"	1¼" FNPT	22.0 ft.	7⁄16"	200°F	**5URJ4**
	72.0 gpm	33"	8 ft.	SS	18"	11"	4"	2" FNPT	20.0 ft.	¾"	200°F	**5URJ7**
Cast-Bronze Body												
⅓	37.0 gpm	25"	10 ft.	SS	18"	13"-15"	5"	1¼" FNPT	18.0 ft.	⅜"	140°F	**4KU62**
	44.0 gpm	27"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URH9**
	44.0 gpm	38¾"	8 ft.	SS	18"	11"	4"	1¼" FNPT	20.0 ft.	7⁄16"	200°F	**5URJ0**
½	48.0 gpm	25"	10 ft.	SS	18"	13"-15"	5"	1¼" FNPT	22.0 ft.	⅜"	140°F	**4KU63**
Plastic Body												
⅓	37.0 gpm	25"	10 ft.	ABS	18"	13"-15"	5"	1¼" FNPT	18.0 ft.	⅜"	120°F	**4KU64**

Item	Float Dia.	Material of Construc.	Item No.
Float Balls and Float Switch			
Float Ball	4"	Copper	**4KU66**
	4"	Copper	**4KU67**
	4"	Polyethylene	**4KU65**
	5"	Stainless Steel	**2UV53**
Float Switch	—	—	**4KU68**

** ABS = acrylonitrile butadiene styrene, CI = cast iron, SS = stainless steel.*



Float Ball No. 2UV53



Float Switch No. 4KU68

Back-up and Primary Sump Pump Combinations

- 1½" discharge

Systems come with a battery-powered, back-up pump and often include a back-up pump and a primary pump all contained in one unit. For use in a basement sump pit and automatically sound an alarm and activate a back-up sump pump when the primary sump pump malfunctions or when the main electrical power supply fails. For indoor use only; battery sold separately.

Back-up with Primary Pump—Systems come with a battery-powered, back-up pump and a primary pump all contained in one unit. Include a primary sump pump, back-up sump pump, controller, and battery case.

Back-up without Primary Pump—Models include a back-up sump pump, controller, and battery case.



With Primary Pump
No. 49DE64



Without Primary Pump
No. 48ZJ81

HP*	Switch Actuation	Flow Rate @ 10 Ft. of Head (gpm)*	Min. Sump Pit Dia.	Max. Head (ft.)*	Body Material†	Max. Liquid Temp.	Cord Length (ft.)*	Brand	Mfr. Model	Item No.
Back-up with Primary Pump										
3/10 (P); 1/3 (S)	Vertical Float	34.0 (P); 30.0 (S)	18"	19.0 (P); 22.0 (S)	CI (P)	130°F	9	Zoeller	508-0010	**49DE63**
3/10 (P); 1/3 (S)	Vertical Float	34.0 (P); 30.0 (S)	18"	19.0 (P); 22.0 (S)	CI (P); PL (S)	130°F	9	Zoeller	508-0018	**54XM27**
1/3 (P)	Vertical Float	30.0 (P); 16.0 (S)	15"	21.0 (P); 24.0 (S)	A (P); ABS (S)	140°F	10 (P); 8 (S)	Liberty Pumps	PC237-441	**10V134**
1/3 (P)	Vertical Float	36.0 (P); 30.0 (S)	15"	23.0 (P); 21.0 (S)	CI (P); PL (S)	104°F	10 (P); 8 (S)	Liberty Pumps	PC257-442-10A-EYE	**54TY48**
1/3 (S)	Vertical Float	30.0 (P); 30.0 (S)	18"	22.0 ft.	CI (P); PL (S)	130°F	—	Zoeller	508-0017	**54XM26**
1/3 (P); 1/4 (S)	Dual Micro Reed	46.2 (P); 16.7 (S)	12"	29.0 (P); 15.0 (S)	CI, CA (P); ABS (S)	104°F	10	Pro Series	PS-C11	**4CUK4**
1/3 (P); 1/3 (S)	Dual Micro Reed	46.2 (P); 30.9 (S)	11"	29.0 ft.	CI, CA (P); ABS (S)	104°F	10	Pro Series	PS-C22	**4CUK3**
1/3 (P); 1/3 (S)	Dual Micro Reed	50.0 (P); 40.0 (S)	11"	30.0 ft.	CI, SS (P); ABS (S)	104°F	10	Pro Series	PS-C33	**4CUK2**
1/2 (P)	Diaphragm	57.0 (P); 24.0 (S)	—	36.0 (P); 23.0 (S)	CI (P); PL (S)	120°F	10 (P); 6 (S)	Little Giant	SPBS-12HF-10	**48ZJ80**
1/2 (P)	Vertical Float	44.0 (P); 16.0 (S)	15"	34.0 (P); 24.0 (S)	A (P); ABS (S)	140°F	10 (P); 8 (S)	Liberty Pumps	PC457-441	**10V135**
1/2 (P); 1/3 (S)	Vertical Float	61.0 (P); 30.0 (S)	18"	23.0 (P); 22.0 (S)	CI (P)	130°F	9	Zoeller	508-0011	**49DE64**
1/2 (P); 1/3 (S)	Vertical Float	61.0 (P); 30.0 (S)	18"	23.0 (P); 22.0 (S)	CI (P); PL (S)	130°F	9	Zoeller	508-0019	**54XM28**
Back-up without Primary Pump										
1/3 (P)	Diaphragm	20.0 (P)	10"	20.0 (P); 20.0 (S)	Acetal (P)	120°F	6	Little Giant	SPBS-10HF	**48ZJ81**
1/3 (P)	Diaphragm	50.0 (P); 20.0 (S)	—	28.0 (P); 20.0 (S)	CI (P); PL (S)	120°F	10	Little Giant	SPBS-10HF-6	**48ZJ79**
1/2 (P)	Diaphragm	24.0 (P)	10"	20.0 (P); 23.0 (S)	Acetal (P)	120°F	6	Little Giant	SPBS-12HF	**48ZJ82**

** (P) = primary pump, (S) = secondary pump. † A = aluminum, CA = cast aluminum, CI = cast iron, (P) = primary pump, PL = plastic, (S) = secondary pump, SS = stainless steel.*

Battery-Powered Back-up Sump Pumps

- Max. liquid temp.: 104°F, except No. 2RXT7 is 130°F

Provide additional hours of protection against flooding when the primary pump stops operating due to mechanical failure or an electrical power outage. They automatically start when the primary pump fails and don't require corded electrical power. Pumps are suitable for use in most sump pits and ideal for locations where electric power is unreliable. Battery is not included.



No. 4NE46



No. 1APP3

HP	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Max. Head	Pump Body Material	Cord Length	Required Battery	Brand	Mfr. Model	Item No.
1¼" FNPT Discharge										
¼	Dual Micro Reed	16.6 gpm	12"	15.0 ft.	ABS	8 ft.	4AYX8	PHCC Pro Series	PHCC-1000	**4NE46**
1/3	Dual Micro Reed	30.8 gpm	12"	16.0 ft.	ABS	8 ft.	4AYX8	PHCC Pro Series	PHCC-1850	**4NE45**
1½" FNPT Discharge										
1/3	Dual Micro Reed	40.0 gpm	12"	17.0 ft.	ABS	8 ft.	4AYX8	PHCC Pro Series	PHCC-2400	**1APP3**
1/3	Vertical Float	36.0 gpm	18"	20.0 ft.	Cast Iron	5 ft.	2RXT8	Zoeller	585-0008	**2RXT7**
—	No Switch Included	30.0 gpm	16"	22.0 ft.	ABS	8 ft.	(2) Group 27 or 31 Batteries	Liberty Pumps	442-25A-EYE	**54JG90**
—	No Switch Included	30.0 gpm	16"	22.0 ft.	ABS	8 ft.	Group 27 or 31 Battery	Liberty Pumps	442-10A-EYE	**54JG89**

Sump Pump Batteries and Battery Acid

Batteries supply power to operate a backup pump during power outages or mechanical failures to prevent flooding or water damage.

Maintenance Free AGM—Sealed lead acid batteries don't require fluid levels to be checked and maintained, and are for use in installations where batteries won't be regularly monitored.

Wet Cell—Cost-effective power supply for applications where batteries will be regularly checked and maintained. They require filling with battery acid before installation. The acid will evaporate over time and needs to be replenished to ensure proper operation.

Battery Acid—Sulfuric acid solution must be added to new wet cell batteries prior to installation and is used to replenish acid in existing installations. The acid ships separately from a battery.



No. 2RXT8



No. 4NE47



No. 5WG11

Voltage	Continuous Run Time Rating	Capacity	H	W	D	For Use With	Brand	Mfr. Model	Item No.
Maintenance Free AGM									
12V DC	6.5 to 11 hr	90 Ah	8.75 in	6.5 in	9.3 in	Mfr. No. PHCC-1000, PHCC-1850, PHCC-2400, PS-C11, PS-C22, PS-C33	PHCC Pro Series	B12-90	**4AYX8**
12V DC	7 hr	100 Ah	10.0 in	7.5 in	12.75 in	Mfr. No. 585-0008	Zoeller	10-2362	**2RXT8**
Wet Cell									
12V DC	6 hr	70 Ah	7.5 in	6.5 in	11.0 in	5WG11	PHCC Pro Series	B-1000	**4NE48**
12V DC	6.5 to 11 hr	140 Ah	8.0 in	6.75 in	12.75 in	5WG11	PHCC Pro Series	B-2200	**4NE47**

	Container Size	For Use With	Brand	Item No.
Battery Acid				
	6 qt	4NE47, 4NE48	PHCC Pro Series	**5WG11**

Intrinsically-Safe Sewage Ejector Pumps

- Max. liquid temp.: 104°F
- 20-ft. power cord

Feature vertical float switch actuation and a nonsparking motor that won't ignite flammable liquids. They transfer sewage containing solids and flammable liquids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. Models have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. Carbon/ceramic shaft seal. For use in sump pits with a minimum 24" dia. FM Approved.



No. 4HEX6

HP	Discharge	Max. Head	Max. Dia. Solids	Body Material*	Impeller Material*	Base Material*	Dia.	Rated Voltage	Amps	Flow Rate @ Ft. of Head 10	Flow Rate @ Ft. of Head 20	Mfr. Model	Item No.
1/2	1½" FNPT	56.0 ft.	¾ in	CI	BZ	CI	13 5/16"	115VAC	15.50	93.0 gpm	79.0 gpm	MX161	**4HEX6**
1/2	2" FNPT	40.0 ft.	2 in	CI	CI	CI	13 5/16"	115VAC	15.00	120.0 gpm	87.0 gpm	MX292	**4HEX8**
1	2" FNPT	35.0 ft.	2 in	CI	CI	CI	13 5/16"	230VAC	8.90	157.0 gpm	106.0 gpm	DX284	**4HEX7**
2	2" FNPT	75.0 ft.	2 in	CI	CI	CI	13 5/16"	230VAC	17.10	199.0 gpm	173.0 gpm	DX295	**4HEX9**

** BZ = bronze, CI = cast iron.*



Goulds No. 2NUZ4



Dayton No. 2JGA3



Barnes No. 24PK71



Little Giant No. 24WN40



Dayton No. 3BB85



Dayton No. 4HU78



Zoeller No. 2VJ61



Little Giant No. 2EHP4

Effluent Pumps

GOULDS PUMPS · Dayton · ZOELLER PUMP COMPANY · LittleGIANT · BARNES

Use to drain treated water from septic tanks and most can drain water containing small solids. Pumps have high heads (the height a pump can lift water before there is no more flow) and high pressure, compared to sewage ejector pumps, to efficiently push treated water out to a drain field.

Note: Float switches and control panels sold separately.

1-Phase, 110 to 120 Volt—Compatible with most standard U.S. residential electrical wall outlets.

1-Phase, 200 to 240 Volt—Models use a higher voltage that allows for larger motors that require less current than lower-voltage motors.

3-Phase, 200 to 480 Volt—Feature three-phase motors that are more efficient than one phase, and they use a higher voltage that allows for larger motors that require less current than lower-voltage motors.

High-Head Filtered—Feature permanent split capacitor (PSC) motors with stainless steel shafts and hardware, long-life mechanical seals, and ball bearings. Design helps prevent problems with lockup, abrasives, and running dry. For use in wastewater treatment, liquid transfer, dewatering, and flood control in commercial and industrial systems. Nos. 2EHP2 to 2EHP4 have a removable built-in check valve.

HP	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Amps	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase, 110 to 120 Volt																			
	No Switch Incl.	2" FNPT	16"	11½"	18"	10.7	20 ft	CI	CI	140 °F	65	33	—	—	29	¾"	Goulds	WE0311M	**2NUZ6**
⅓	No Switch Incl.	2" FNPT	16"	11¾"	18"	10.7	20 ft	CI	CI	140 °F	70	27	—	—	26	¾"	Goulds	WE0311L	**2NUZ4**
	Tether Float	2" MNPT	16¾"	6½"	18"	9.16	20 ft	SS	SS	130 °F	68	43	—	—	28	1½"	Dayton	4HDZ8	**4HDZ8**
4/10	No Switch Incl.	1½" FNPT	12⅛"	10$^{3}/_{32}$"	18"	8.5	20 ft	CI	TPL	130 °F	61	44	—	—	38	¾"	Zoeller	N152	**5CZG2**
	Tether Float	2" MNPT	16¾"	6½"	18"	11	20 ft	SS	SS	130 °F	70	52	—	—	32	1½"	Dayton	2JGA2	**2JGA2**
	No Switch Incl.	1½"	13"	9"	18"	9.4	20 ft	CI	CI	104 °F	78	52	—	—	31	¾"	Dayton	4HU71	**4HU71**
	No Switch Incl.	1½" FNPT	12⅛"	10$^{3}/_{32}$"	18"	10.5	20 ft	CI	TPL	130 °F	70	52	11	—	44	¾"	Zoeller	N153	**5CZG3**
	No Switch Incl.	1½" FNPT	19$^{5}/_{16}$"	12¾"	24"	15.5	20 ft	CI	BZ	130 °F	93	78	45	—	56	¾"	Zoeller	N161	**4NW04**
	No Switch Incl.	2"	14$^{1}/_{16}$"	9⅝"	18"	6.4	20 ft	CI	CI	77 °F	45	37	10	—	45	¾"	Dayton	4HU70	**4HU70**
	No Switch Incl.	2"	16¾"	12$^{3}/_{16}$"	18"	11.9	20 ft	CI	PP	104 °F	76	66	47	25	79	¾"	Dayton	4HU75	**4HU75**
	No Switch Incl.	2"	17$^{5}/_{16}$"	13$^{7}/_{16}$"	18"	11.4	20 ft	CI	PP	104 °F	92	76	20	—	49	¾"	Dayton	4LE10	**4LE10**
½	No Switch Incl.	2" FNPT	16"	11¾"	18"	14.5	20 ft	CI	CI	140 °F	58	50	30	2	61	¾"	Goulds	WE0511HH	**2NVC1**
	No Switch Incl.	2" FNPT	16"	11¾"	18"	14.5	20 ft	CI	CI	140 °F	78	60	10	—	46	¾"	Goulds	WE0511H	**2NUZ8**
	Tether Float	1½"	13"	9⅛"	18"	9.4	20 ft	CI	CI	104 °F	78	52	—	—	31	¾"	Dayton	4HU73	**4HU73**
	Tether Float	2"	16¾"	12¼"	18"	11.9	20 ft	CI	PP	104 °F	76	66	47	25	79	¾"	Dayton	3BB83	**3BB83**
	Tether Float	2" MNPT	16¾"	6½"	18"	11.7	20 ft	SS	SS	130 °F	85	64	—	—	36	1½"	Dayton	2JGA3	**2JGA3**
	Tether Float	2" NPT	13¾"	12¼"	18"	15	20 ft	CI	CI	120 °F	115	98	57	—	63	¾"	Little Giant	WS50HAM-20	**5EAF4**
	Vertical Float	1½" FNPT	19$^{5}/_{16}$"	12¾"	24"	15.5	20 ft	CI	BZ	130 °F	93	79	45	—	56	¾"	Zoeller	M161	**6JGW7**
1-Phase, 200 to 240 Volt																			
	No Switch Incl.	1½" FNPT	12"	10⅛"	18"	4.7	15 ft	CI	TPL	130 °F	61	25	—	—	23	½"	Zoeller	E98	**4NW39**
½	No Switch Incl.	2"	16¾"	12$^{3}/_{16}$"	18"	5.1	20 ft	CI	PP	104 °F	76	66	47	25	79	¾"	Dayton	4HU76	**4HU76**
	No Switch Incl.	2" FNPT	18$^{20}/_{69}$"	12-4/25"		5.1	20 ft	CI	PP, SS	104 °F	75	67	48	25	70	¾"	Barnes	STEP522DS	**24PK71**
	Tether Float	1½"	13"	9⅛"	18"	4.3	20 ft	CI	CI	104 °F	78	52	—	—	31	¾"	Dayton	4HU74	**4HU74**
¾	No Switch Incl.	2" FNPT	16"	11¾"	18"	10	20 ft	CI	CI	140 °F	93	83	45	10	67	¾"	Goulds	WE0712H	**2NVC3**
	No Switch Incl.	2"	16¾"	12$^{3}/_{16}$"	18"	8.3	20 ft	CI	PP	104 °F	85	80	68	52	109	¾"	Dayton	4HU77	**4HU77**
	No Switch Incl.	2" FNPT	16$^{5}/_{32}$"	9$^{57}/_{64}$"	18"	9	20 ft	CI	CI	140 °F	—	—	70	30	81	¾"	Little Giant	16EH-CIM	**24WN40**
1	No Switch Incl.	2" FNPT	18$^{20}/_{69}$"	12-4/25"		8.3	20 ft	CI	PP, SS	104 °F	84	80	48	52	100	¾"	Barnes	STEP1022DS	**24PK72**
	Tether Float	2"	16¾"	12$^{3}/_{16}$"	18"	8.3	20 ft	CI	PP	104 °F	85	80	68	52	109	¾"	Dayton	3BB85	**3BB85**
	Tether Float	2" NPT	13¾"	12¼"	18"	13.3	20 ft	CI	CI	120 °F	115	140	115	76	90	¾"	Little Giant	WS100HAM-12-20	**5EAF5**
	Vertical Float	1½" FNPT	19$^{5}/_{16}$"	12¾"	24"	10.2	20 ft	CI	BZ	130 °F	61	60	55	39	86	¾"	Zoeller	D165	**6JGW8**
1½	No Switch Incl.	1½" FNPT	19$^{5}/_{16}$"	12¾"	24"	14	20 ft	CI	BZ	130 °F	140	128	103	71	91	¾"	Zoeller	E188	**2VJ62**
	No Switch Incl.	2" FNPT	16"	11¾"	18"	15.7	20 ft	CI	CI	140 °F	94	90	77	63	128	¾"	Goulds	WE1512HH	**2NVC5**
2	No Switch Incl.	1½" FNPT	19$^{5}/_{16}$"	12¾"	24"	14.5	20 ft	CI	BZ	130 °F	45	45	45	45	137	⅝"	Zoeller	E191	**4NW20**
	No Switch Incl.	2"	17$^{5}/_{16}$"	13$^{7}/_{16}$"	18"	10.9	20 ft	CI	PP	104 °F	—	—	100	62	86	¾"	Dayton	4LE14	**4LE14**
3-Phase, 200 to 480 Volt																			
1	No Switch Incl.	2"	16¾"	12$^{3}/_{16}$"	18"	2.8	20 ft	CI	PP	104 °F	85	80	68	52	109	¾"	Dayton	4HU78	**4HU78**
	No Switch Incl.	2"	16¾"	12$^{3}/_{16}$"	18"	5.6	20 ft	CI	PP	104 °F	85	80	68	52	109	¾"	Dayton	3BB86	**3BB86**
1½	No Switch Incl.	1½" FNPT	18½"	12¾"	24"	4.6	20 ft	CI	BZ	130 °F	140	128	103	71	91	¾"	Zoeller	G188	**2VJ61**
	No Switch Incl.	1½" FNPT	18½"	12¾"	24"	8.9	20 ft	CI	BZ	130 °F	140	128	103	71	91	¾"	Zoeller	F188	**2VJ65**
2	No Switch Incl.	1½" FNPT	18⅝"	12¾"	24"	6	20 ft	CI	BZ	130 °F	140	130	109	85	110	¾"	Zoeller	G189	**4NW19**
	No Switch Incl.	2"	17$^{5}/_{16}$"	13$^{7}/_{16}$"	18"	7.00/3.50	20 ft	CI	PP	104 °F	—	—	100	62	86	¾"	Dayton	4LE13	**4LE13**

HP	Switch Actuation	Discharge	H	Min. Sump Dia.	Pit Dia.	Amps	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 60	80	100	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
High-Head Filtered Effluent Pumps																		
1-Phase, 110 to 120 Volt																		
	No Switch Incl.	1¼" FNPT	22½"	4"	4"	11	10 ft	SS	A	86 °F	14	13	11.5	230	1/16 in	Dayton	4NY25	**4NY25**
½	No Switch Incl.	1¼" FNPT	31"	4"	—	10	10 ft	SS	C	104 °F	14	13	13	250	Clear Water	Little Giant	WE10G05P4-21	**2EHP2**
	No Switch Incl.	1¼" FNPT	31"	4"	—	10	10 ft	SS	C	104 °F	22	18	20	160	Clear Water	Little Giant	WE20G05P4-21	**2EHP3**
	No Switch Incl.	1¼" FNPT	31"	4"	—	10	10 ft	SS	C	104 °F	28	23	14	115	Clear Water	Little Giant	WE30G05P4-21	**2EHP4**

**** A = acetal, BZ = bronze, C = Celcon®, CI = cast iron, PP = polypropylene, SS = stainless steel, TPL = thermoplastic.***



No. 2WML9



No. 2NRX1

ZOELLER PUMP COMPANY · Liberty Pumps · SJE Rhombus

Elevator Sump Pumps, Detection System, and Alarms

Elevator Sump Pump with Oil Sensor—Pumps drain water from elevator sump pits and transformer vaults while retaining necessary oil. They have an oil detector that identifies when oil is present. The pump only operates when water is present and stops when oil is sensed to prevent the pumping of oil into groundwater or sewage systems.

Oil Detection System and Alarms—Oil detection systems provide pump control and alarm notifications for potentially threatening water and oil levels in pumping applications. The oil water switch senses the difference between oil and water to remove water from the tank, while preventing oil from being pumped into the environment. Pump not included.

HP	Switch Actuation	Switch Type	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Max. Liquid Temp.	Brand	Item No.
Elevator Sump Pump with Oil Sensor								
115VAC								
3/10	Sensor	Piggyback	34.0 gpm	18"	15 ft.	130°F	Zoeller	**5CZF7**
⅓	Sensor	Sensor	37.0 gpm	14"	10 ft.	140°F	Liberty Pumps	**2WML9**
4/10	Sensor	Piggyback	61.0 gpm	18"	20 ft.	130°F	Zoeller	**5CZF8**
½	Sensor	Sensor	55.0 gpm	14"	10 ft.	140°F	Liberty Pumps	**2WMN1**
230VAC								
½	Sensor	Sensor	55.0 gpm	14"	10 ft.	140°F	Liberty Pumps	**2WMN2**

Voltage	Alarm	Switch Type	Max. HP	Power Cord Length (ft.)	Sensor Cord Length (ft.)	Max. Temp. (°F)	Brand	Item No.
Oil Detection System and Pump Control								
120VAC	Audio/Visual	—	—	10	10	130°	SJE-Rhombus	**36K473**
Oil Guard System and Alarm								
115	Audio 71 dB/Visual	Piggyback	¾	8	20	130	Zoeller	**2NRX1**
Oiltector® Pump Control and Alarm								
115	Audio/Visual	Piggyback	1	—	—	130	Liberty Pumps	**2WMN3**
230	Audio/Visual	Piggyback	2	—	—	130	Liberty Pumps	**2WMN4**

Sewage Ejector Pumps

General purpose pumps remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. They have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. These sewage pump systems mount in a basin where waste collects from a drain pipe and they're turned on and off by an attached switch or control panel. The wastewater is then pumped out of the basin and up to the main sewer or septic line. The **1-phase 110 to 120V** pumps are compatible with most standard U.S. residential electrical wall outlets. The **1-phase 200 to 240V** pumps use a higher voltage that allows for larger motors that require less current than lower-voltage motors. All **3-phase** pumps are more energy efficient than one-phase models.

Note: Operating pump outside of specified range may result in pump damage and/or shortened pump life.



Zoeller
No. 4NW07



Goulds
No. 4NE74



Tsurumi
No. 20LR14



Dayton
No. 3BB93



Little Giant
No. 2EHN8

HP	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Amps	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase, 110 to 120 Volt																			
	No Switch Incl.	2" FNPT	14¾"	4⅞"	18"	9.40	15 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	N264	**4NW07**
	Vertical Float	2" FNPT	14¾"	11²³⁄₆₄"	18"	9.40	10 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	M264	**4NW06**
⅘10	Tether Float	2" MNPT	17¾"	9¼"	18"	11.00	20 ft	SS	SS	130 °F	75	47	—	—	25	2"	Dayton	2JGA4	**2JGA4**
	No Switch Incl.	2" NPT	16¾"	10¾"	—	12.00	20 ft	CI	CI	104 °F	95	37	—	—	25	2"	Dayton	4HU79	**4HU79**
	Tether Float	2" NPT	16¾"	10¾"	—	12.00	20 ft	CI	CI	77 °F	95	37	—	—	25	2"	Dayton	3BB87	**3BB87**
	Vertical Float	2" NPT	16¾"	16²³⁄₃₂"	—	12.00	20 ft	CI	CI	77 °F	95	37	—	—	25	2"	Dayton	4LE12	**4LE12**
	No Switch Incl.	2" FNPT	19"	12½"	—	14.50	20 ft	CI	CI	104°F (Continuous), 140°F (Intermittent)	122	50	—	—	19	2"	Goulds	WS0511BF	**5NXT7**
	No Switch Incl.	2" FNPT	14⁹⁄₃₂"	13¹⁄₁₆"	18"	10.40	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	N267	**4NW10**
	No Switch Incl.	2" FNPT	19"	12½"	—	14.50	20 ft	CI	CI	104°F (Continuous), 140°F (Intermittent)	110	62	—	—	29	2"	Goulds	WS0511BHF	**4NE74**
	No Switch Incl.	2" FNPT	21³⁄₁₆"	12⅞"	24"	15.00	20 ft	CI	CI	130 °F	120	87	10	—	40	2"	Zoeller	N292	**4NW21**
	No Switch Incl.	2" FNPT	14³⁄₁₆"	9⅝"	8"	5.80	32 ft	T	GFRP	104 °F	72	52	6	—	43	²⁵⁄₆₄"	Tsurumi	50TM2.4S	**20LR14**
	Tether Float	2" FNPT	14¾"	9⅝"	8"	5.80	32 ft	T	GFRP	104 °F	72	52	6	—	43	²⁵⁄₆₄"	Tsurumi	50TMA2.4S	**20LR15**
½	Vertical Float	2" FNPT	14⁹⁄₃₂"	13¹⁄₁₆"	18"	10.40	10 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	M267	**2P552**
	Vertical Float	2" FNPT	19⁵⁄₁₆"	12⅞"	18"	15.00	20 ft	CI	CI	140 °F	120	87	10	—	40	2"	Zoeller	M292	**2P555**
	No Switch Incl.	2" FNPT; 3" FNPT	11⅔"	11-16/25"	—	9.50	20 ft	CI	TPEL	140 °F	95	30	—	—	25	2"	Little Giant	10SN-CIM	**4NY82**
	Tether Float	2" MNPT	17¾"	9¼"	18"	12.30	20 ft	SS	SS	130 °F	80	55	—	—	32	2"	Dayton	2JGA5	**2JGA5**
	Diaphragm	2" NPT	14⅔"	12"	—	11.40	20 ft	CI	COMP	104 °F	85	12	—	—	22	2"	Little Giant	ES50D1-20	**4NY85**
	No Switch Incl.	2" NPT	16¾"	10¾"	—	12.00	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	4HU80	**4HU80**
	Tether Float	2" NPT	15³⁄₁₆"	10¾"	—	12.00	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	3BB88	**3BB88**
	No Switch Incl.	3" FNPT	21¹⁄₁₆"	13⁹⁄₁₆"	24"	10.30	15 ft	CI	CI	104 °F	96	34	—	—	26	2"	Zoeller	N282	**4NW30**
	Vertical Float	3" FNPT	19⁹⁄₁₆"	13⁹⁄₁₆"	18"	10.30	10 ft	CI	CI	140 °F	96	34	—	—	26	2"	Zoeller	M282	**2P553**
1	No Switch Incl.	2" FNPT	15"	13¹⁄₁₆"	18"	15.00	20 ft	CI	TPL	130 °F	101	56	—	—	29	2"	Zoeller	N270	**4NW14**
1-Phase, 200 to 240 Volt																			
⅘10	No Switch Incl.	2" FNPT	14¾"	13¹⁄₁₆"	18"	4.70	15 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	E264	**4NW08**
½	No Switch Incl.	2" NPT	16¾"	10¾"	—	6.20	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	4HU81	**4HU81**
	Tether Float	2" NPT	15³⁄₁₆"	10¾"	—	6.20	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	3BB89	**3BB89**
	Vertical Float	2" FNPT	19⁹⁄₁₆	13⁹⁄₁₆"	18"	8.90	10 ft	CI	CI	104 °F	157	106	—	—	35	2"	Zoeller	D284	**5CZG6**
	Vertical Float	2" FNPT	19⁵⁄₁₆"	12⅞"	24"	10.20	20 ft	CI	CI	104 °F	—	111	51	—	51	2"	Zoeller	D293	**4P020**
	No Switch Incl.	2" MNPT	17¾"	9¼"	18"	9.20	20 ft	SS	SS	130 °F	126	96	—	—	40	2"	Dayton	2JGA6	**2JGA6**
	No Switch Incl.	2" NPT	21¼"	16²³⁄₃₂"	—	8.30	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LE20	**4LE20**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	10.70	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	4HU83	**4HU83**
1	Tether Float	2" NPT	19¹⁄₁₆"	12⅝"	—	10.70	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	3BB90	**3BB90**
	Vertical Float	2" NPT	21¼"	16¾"	—	8.30	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LB99	**4LB99**
	No Switch Incl.	3" FNPT	17⅛"	14¹⁄₁₀"	—	11.00	20 ft	CI	CI	140 °F	160	100	—	—	35	2"	Little Giant	16S-CIM	**2EHN5**
	No Switch Incl.	3" FNPT	21¹⁄₁₆"	13⁹⁄₁₆"	24"	8.90	15 ft	CI	CI	104 °F	157	106	—	—	35	2"	Zoeller	E284	**4NW31**
	Vertical Float	3" FNPT	19⁹⁄₁₆	13⁹⁄₁₆"	18"	8.90	10 ft	CI	CI	140 °F	157	106	—	—	35	2"	Zoeller	D284	**2P554**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	13.50	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU85	**4HU85**
	Tether Float	2" NPT	19¹⁄₁₆"	12⅝"	—	13.50	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU86	**4HU86**
1½	No Switch Incl.	3" FNPT	19⁹⁄₄₃"	12¹⁵⁄₁₆"	—	15.50	20 ft	CI	CI	140 °F	160	137	84	15	64	2"	Little Giant	18S-CIM	**2EHN7**
	No Switch Incl.	3" NPT	21¼"	16²³⁄₃₂"	—	16.00	25 ft	CI	CI	104 °F	335	240	—	—	39	2½"	Dayton	4LE16	**4LE16**
	Tether Float	3" NPT	21¼"	16²³⁄₃₂"	—	16.00	25 ft	CI	CI	77 °F	335	240	—	—	39	2½"	Dayton	4LE22	**4LE22**
	No Switch Incl.	2" FNPT	21³⁄₁₆"	12⅞"	24"	16.60	20 ft	CI	CI	130 °F	199	173	124	66	75	2"	Zoeller	E295	**4NW26**
	Tether Float	2" FNPT	19⁵⁄₁₆"	12⅞"	24"	17.10	20 ft	CI	CI	104 °F	199	173	124	66	75	2"	Zoeller	WD295	**4TR67**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	15.00	20 ft	CI	CI	130 °F	—	165	120	66	74	2"	Dayton	4HU88	**4HU88**
2	Tether Float	2" NPT	19¹⁄₁₆"	12⅝"	—	15.00	20 ft	CI	CI	104 °F	—	165	120	66	74	2"	Dayton	3BB91	**3BB91**
	No Switch Incl.	3" FNPT	19⁹⁄₄₃"	12¹⁵⁄₁₆"	—	18.00	20 ft	CI	CI	140 °F	205	168	120	58	77	2"	Little Giant	20S-CIM	**2EHN9**
	No Switch Incl.	3" NPT	21¼"	16²³⁄₃₂"	—	19.00	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE17	**4LE17**
	Tether Float	3" NPT	21¼"	16²³⁄₃₂"	—	19.00	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE23	**4LE23**
	No Switch Incl.	4" Flanged	26"	16⅛"	36"	12.90	20 ft	CI	CI	140 °F	265	184	—	—	33	3"	Zoeller	E404	**6JGV9**
3	No Switch Incl.	4" Flanged	26"	16⅛"	36"	19.00	20 ft	CI	CI	140 °F	326	241	—	—	38	3"	Zoeller	E405	**6JGW1**
3-Phase, 200 to 480 Volt																			
	No Switch Incl.	2" FNPT	14⁹⁄₃₂"	13¹⁄₁₆"	18"	1.50	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	G267	**4NW13**
½	No Switch Incl.	2" FNPT	14⁹⁄₃₂"	13¹⁄₁₆"	18"	2.60	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	F267	**4NW12**
	No Switch Incl.	2" FNPT	19⁹⁄₁₆"	13⁹⁄₁₆"	18"	3.60	15 ft	CI	CI	130 °F	96	34	—	—	26	2"	Zoeller	282-0006	**53TZ18**
	No Switch Incl.	2" MNPT	17¾"	9¼"	18"	2.60	20 ft	SS	SS	130 °F	112	86	22	—	46	2"	Dayton	2JGA7	**2JGA7**
	No Switch Incl.	2" NPT	21¼"	16²³⁄₃₂"	—	2.40	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LE15	**4LE15**
1	No Switch Incl.	2" NPT	21¼"	16²³⁄₃₂"	—	4.90	20 ft	CI	CI	130 °F	195	130	—	—	36	2"	Dayton	4LE21	**4LE21**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	3.70	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	4HU84	**4HU84**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	7.50	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	3BB93	**3BB93**
	No Switch Incl.	3" FNPT	17⅛"	14¹⁄₁₀"	—	6.30	20 ft	CI	CI	140 °F	160	100	—	—	35	2"	Little Giant	16S-CIM	**2EHN6**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	4.90	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU87	**4HU87**
1½	No Switch Incl.	3" FNPT	19⁹⁄₄₃"	12¹⁵⁄₁₆"	—	11.50	20 ft	CI	CI	140 °F	160	137	84	15	64	2"	Little Giant	18S-CIM	**2EHN8**
	No Switch Incl.	2" FNPT	21³⁄₁₆"	12⅞"	24"	6.10	20 ft	CI	CI	130 °F	199	173	124	66	75	2"	Zoeller	G295	**4NW28**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	6.00	20 ft	CI	CI	104 °F	—	165	120	66	75	2"	Dayton	4HU89	**4HU89**
	No Switch Incl.	2" NPT	19¹⁄₁₆"	12⅝"	—	12.00	20 ft	CI	CI	104 °F	—	165	120	66	75	2"	Dayton	3BB95	**3BB95**
2	No Switch Incl.	3" FNPT	19⁹⁄₄₃"	12¹⁵⁄₁₆"	—	12.60	20 ft	CI	CI	140 °F	205	168	120	58	77	2"	Little Giant	20S-CIM	**2EHP1**
	No Switch Incl.	3" NPT	21¼"	16²³⁄₃₂"	—	6.60	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE19	**4LE19**
	No Switch Incl.	3" NPT	21¼"	16²³⁄₃₂"	—	15.20/13.20	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE18	**4LE18**
	No Switch Incl.	4" Flanged	26"	16⅛"	36"	5.20	20 ft	CI	CI	140 °F	265	184	—	—	33	3"	Zoeller	G404	**6JGW0**
3	No Switch Incl.	3" NPT	26½"	17"	—	12.90/6.10	20 ft	CI	CI	104 °F	—	300	115	—	52	2½"	Dayton	3BB96	**3BB96**
	No Switch Incl.	4" Flanged	26"	16⅛"	36"	6.10	20 ft	CI	CI	140 °F	326	241	—	—	38	3"	Zoeller	G405	**6JGW2**
5	No Switch Incl.	3" FNPT	26¼"	16¾"	18"	11.80	20 ft	CI	CI	104 °F	505	450	295	60	64	2½"	Dayton	5RZP1	**5RZP1**

**** CI = cast iron, COMP = composite, GFRP = glass fibre reinforced plastic, SS = stainless steel, T = titanium, TPEL = thermoplastic elastomer, TPL = thermoplastic.***


Libery Pumps
No. 5YU17


Zoeller
No. 6JGW4


Little Giant
No. 4NY89


Zoeller
No. 2MNE5

Sewage Ejector Pump Systems

- Max. dia. solids: 2"
- Pump discharge: 2" dia.
- Vent size: 2"

Remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. Pumps have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. They are mounted in a basin where waste collects from a drain pipe and are turned on and off by an attached switch or control panel. The wastewater is then pumped out of the basin and up to the main sewer or septic line.

110 Volt with Indoor Alarm—Feature an alarm that turns on when the water rises to a preset level in the sump basin. The alarm alerts that the pump has malfunctioned or is not able to keep up with the water flow. Compatible with most standard U.S. residential electrical wall outlets.

110 Volt without Alarm—Compatible with most standard U.S. residential electrical wall outlets.

220 Volt with Indoor Alarm—Have an alarm that turns on when the water rises to a preset level in the sump basin. The alarm alerts that the pump has malfunctioned or is not able to keep up with the water flow. Pumps are compatible with most 220V U.S. wall outlets.

HP	Switch Actuation	Max. Head	Basin H	Basin Dia.	Basin Cap.	Basin Material*	Pump Body Material*	Amps	Max. Liquid Temp.	Cord Length	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Brand	Mfr. Model	Item No.
110 Volt with Indoor Alarm																	
	Tether Float	21 ft	24 in	24 in	41.0 gal	PE	PE	12	140 °F	10 ft	122	99	65	9	Liberty Pumps	P382LE41	**2WMP2**
	Tether Float	21 ft	30 in	21 in	41.0 gal	PE	PE	12	140 °F	10 ft	122	99	65	9	Liberty Pumps	P372LE41/A2	**5YU14**
4/10	Tether Float	21 ft	24 in	24 in	41.0 gal	PE	PE	12	140 °F	10 ft	122	99	65	9	Liberty Pumps	P382LE41/A2	**5YU17**
	Vertical Float	18 ft	30 in	18 in	33.0 gal	PE	CI	9.4	130 °F	15 ft	90	60	23	—	Zoeller	910-0033	**2MNE1**
	Vertical Float	19 ft	30 in	18 in	33.0 gal	PE	PE	5.5	110 °F	15 ft	82	53	32	—	Zoeller	912-0121	**2MNE3**
	Tether Float	24 ft	24 in	24 in	41.0 gal	PE	PE	12	140 °F	10 ft	140	118	92	55	Liberty Pumps	P382LE51	**2WMP3**
	Tether Float	24 ft	30 in	21 in	41.0 gal	PE	PE	12	140 °F	10 ft	140	118	92	55	Liberty Pumps	P372LE51/A2	**5YU15**
½	Tether Float	24 ft	24 in	24 in	41.0 gal	PE	PE	12	140 °F	10 ft	140	118	92	55	Liberty Pumps	P382LE51/A2	**5YU18**
	Tether Float	21 ft	24 in	24 in	41.0 gal	PE	CI	10.4	130 °F	10 ft	128	53	32	10	Zoeller	912-1117	**6JGW6**
	Vertical Float	21 ft	24 in	24 in	41.0 gal	PE	CI	10.4	130 °F	10 ft	128	53	32	10	Zoeller	912-1116	**6JGW4**
110 Volt without Alarm																	
4/10	Tether Float	18 ft	30 in	20 in	40.0 gal	PE	PE	13	120 °F	15 ft	80	50	16	—	Little Giant	9S-SMPX-LG	**4NY89**
	Tether Float	20 ft	26 3/64 in	24 in	41.0 gal	—	PE	8.5	120 °F	20 ft	110	70	30	—	Little Giant	9JF2V2D	**44ZH85**
220 Volt with Indoor Alarm																	
4/10	Vertical Float	18 ft	30 in	18 in	33.0 gal	PE	CI	4.7	130 °F	15 ft	90	60	23	—	Zoeller	910-0034	**2MNE5**
	Tether Float	24 ft	30 in	21 in	41.0 gal	PE	PE	6.8	140 °F	10 ft	140	118	92	55	Liberty Pumps	P372LE52/A2	**5YU16**
½	Tether Float	24 ft	24 in	24 in	41.0 gal	PE	PE	6.8	140 °F	10 ft	140	118	92	55	Liberty Pumps	P382LE52/A2	**5YU19**

** CI = cast iron, PE = polyethylene.*


Zoeller
No. 49DE59


Liberty
Pumps
No. 21TN69


Dayton
No. 11A341


Zoeller
No. 4HEW7


Dayton
No. 3BB98


Liberty
Pumps
No. 1XGC6

Sewage Grinder Pumps

General purpose pumps feature a grinding plate on the bottom that shreds large particles into small fragments so the pump inlet won't clog and the waste can be pumped into a sewage system. These models, also known as grinder pumps, are not for use with septic systems since the small particles will not be filtered out in the septic system's drain field and will contaminate the groundwater. For control panels including duplex control panels see page 2655.

1-Phase, 110 to 120 Volt—Compatible with most standard U.S. residential electrical wall outlets.

1-Phase, 200 to 240 Volt—Use a higher voltage that allows for larger motors that require less current than lower-voltage motors.

3-Phase, 200 to 480 Volt—Have 3-phase motors that are more efficient than 1-phase. Motors use a higher voltage that allows for larger motors that require less current than lower-voltage motors.

HP	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Amps	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase, 110 to 120 Volt																			
½	Vertical Float	1¼ in FNPT	17¼"	11 1/32"	18"	7.0	15 ft	CI	EP	130 °F	31	22	—	—	35.0 ft	10 29/32 in	Zoeller	803-0013	**49DE59**
1	Tether Float	2 in FNPT	17¾"	11"	24"	12	10 ft	CI	CI	140 °F	42	36	15	—	50.0 ft	2 in	Liberty Pumps	PRG101A	**21TN69**
	Vertical Float	1¼ in FNPT	17¼"	11 1/32"	18"	11.0	15 ft	CI	EP	130 °F	42	35	18	—	55.0 ft	10 29/32 in	Zoeller	807-0012	**49DE61**
1-Phase, 200 to 240 Volt																			
½	Vertical Float	1¼ in FNPT	17¼"	11 1/32"	18"	3.0	15 ft	CI	EP	130 °F	31	22	—	—	35.0 ft	10 29/32 in	Zoeller	803-0014	**49DE60**
1 ½	No Switch Included	1¼ in FNPT	20 15/32"	6.8"	24"	9	16 ft	SS	DI	104 °F	26	25	20	15	98.0 ft	⅛ in	Dayton	11A344	**11A344**
	No Switch Included	1¼ in FNPT	20 15/32"	7.8"	24"	9	16 ft	SS	DI	104 °F	46	44	28	—	65.0 ft	⅛ in	Dayton	11A341	**11A341**
1	Tether Float	2 in FNPT	17¾"	11"	24"	6	10 ft	CI	CI	140 °F	42	36	15	—	50.0 ft	2 in	Liberty Pumps	PRG102A	**21TN71**
	Vertical Float	1¼ in FNPT	17¼"	11 1/32"	18"	5.0	15 ft	CI	EP	130 °F	42	35	18	—	55.0 ft	10 29/32 in	Zoeller	807-0013	**49DE62**
	No Switch Included	1¼ in FNPT	18 5/8""	11 5/8"	24"	14	20 ft	CI	EP	130 °F	46	46	46	43	107.0 ft	—	Zoeller	820-0004	**6JGX0**
	No Switch Included	1¼ in FNPT	19½"	9"	24"	15	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG202M	**10V104**
	No Switch Included	1¼ in FNPT	21¼"	7.8"	24"	11	16 ft	SS	DI	104 °F	47	46	38	20	82.0 ft	⅛ in	Dayton	11A342	**11A342**
	No Switch Included	1¼ in FNPT	21¼"	7.6"	24"	11	16 ft	SS	DI	104 °F	42	40	38	25	98.0 ft	⅛ in	Dayton	11A345	**11A345**
2	No Switch Included	1¼ in FNPT	23¾"	11 21/32"	24"	17.2	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	E840	**4HEW7**
	Tether Float	1¼ in FNPT	18 5/8""	11 5/8"	24"	13.7	20 ft	CI	EP	130 °F	46	46	46	43	107.0 ft	—	Zoeller	820-0011	**4HEW5**
	Tether Float	1¼ in FNPT	19½"	—	24"	15	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG202A	**5YU10**
	Tether Float	1¼ in FNPT	19½"	9½"	24"	15	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX202M	**2WMN8**
	Tether Float	1¼ in FNPT	21"	8 13/16"	16"	15	20 ft	CI	CI	77 °F		57	57	54	100.0 ft	—	Dayton	3BB97	**3BB97**
3	No Switch Included	2½ in Flanged	30¼"	11"	24"	23.1	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T645	**12T645**
5	No Switch Included	2½ in Flanged	30¼"	11"	24"	35.2	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T648	**12T648**
3-Phase, 200 to 480 Volt																			
	No Switch Included	1¼ in FNPT	19½"	—	24"	5.3	10 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG204M	**1XGC7**
	No Switch Included	1¼ in FNPT	19½"	9½"	24"	5.3	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX204M	**2WMP1**
	No Switch Included	1¼ in FNPT	21"	8 13/16"	16"	4	20 ft	CI	CI	77 °F		57	57	54	100.0 ft	3 in	Dayton	3BB98	**3BB98**
2	No Switch Included	1¼ in FNPT	23¾"	11 21/32"	24"	12.3	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	J840	**4HEW8**
	No Switch Included	1¼ in FNPT	24 1/32"	11 21/32"	24"	5.5	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	840-0008	**6JGW9**
	Tether Float	1¼ in FNPT	19½"	9½"	24"	10.6	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG203M	**1XGC6**
	Tether Float	1¼ in FNPT	19½"	9½"	24"	10.6	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX203M	**2WMN9**
	Tether Float	1¼ in FNPT	23¾"	11 21/32"	24"	10.8	20 ft	CI	DI	104 °F	45	45	42	30	104.0 ft	—	Zoeller	840-0006	**19T428**
	No Switch Included	1¼ in FNPT	21¼"	7.8"	24"	9	16 ft	SS	DI	104 °F	57	54	49	38	91.0 ft	⅛ in	Dayton	11A343	**11A343**
3	No Switch Included	2½ in Flanged	30¼"	11"	24"	7.15	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T647	**12T647**
	No Switch Included	2½ in Flanged	30¼"	11"	24"	14.3	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T646	**12T646**
5	No Switch Included	2½ in Flanged	30¼"	11"	24"	10.34	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T650	**12T650**
	No Switch Included	2½ in Flanged	30¼"	11"	24"	20.68	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T649	**12T649**
7 ½	No Switch Included	2½ in Flanged	30¼"	11"	24"	24.64	20 ft	CI	Brass	140 °F	99	99	99	99	155.0 ft	½ in	Dayton	12T651	**12T651**

** CI = cast iron, DI = ductile iron, EP = engineered polymer, SS = stainless steel.*


No. 21TN73


No. 4HEW6


No. 4HEX1


No. 10V137

Zoeller Pump Company | Liberty Pumps

Sewage Grinder Pump Systems with Alarm

Tether float switch actuated pumps feature an alarm that turns on when water rises to a preset level in the sump basin to alert that the pump has malfunctioned or is not able to keep up with the water flow. Systems include grinder pumps, basins, pipe, control panels, and switches to turn pumps on and off. Pumps have a grinding plate on the bottom that shreds large particles into small fragments so the pump inlet won't clog and the waste can be pumped into a sewage system. Systems are not for use with septic systems since the small particles will not be filtered out in the septic system's drain field and will contaminate the groundwater. The 110V pumps are compatible with most standard U.S. residential electrical wall outlets. The 220V models use a higher voltage for larger motors that require less current than lower-voltage motors.

HP	Switch Electrical Connection	H	No. of Pumps	Dia.	Min. Sump Pit Dia.	Amps	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase, 110 Volt																			
½ hp	Piggyback	30"	1	10 3/16"	18"	7.0 A	15 ft	CI	EP	104 °F	23	27	21	13	26	—	Zoeller	915-0005	**19T429**
1 hp	Integral	24"	1	24 3/8"	—	12 A	10 ft	CI	CI	140 °F	44	42	39	36	50	2 in	Liberty Pumps	P382XPRG101	**21TN73**
	Integral	24"	2	29 7/16"	—	12 A	10 ft	CI	CI	140 °F	44	42	39	36	50	2 in	Liberty Pumps	P682XPRG101	**21TN75**
1-Phase, 220 Volt																			
2 hp	Piggyback	60"	1	11 5/8"	24"	13.7 A	20 ft	CI	PP	130 °F	46	46	46	46	107	—	Zoeller	922-0005	**4HEW6**
	Integral	23 3/4"	2	11 21/32"	36"	17.2 A	20 ft	CI	DI	130 °F	45	45	45	45	104	—	Zoeller	923-0006	**4HEX1**
	Integral	72"	2	42"	—	15 A	25 ft	CI	SS	140 °F	50	50	50	50	108	2 in	Liberty Pumps	D3672LSG202-48	**10V137**

** CI = cast iron, DI = ductile iron, EP = engineered polymer, PP = polypropylene, SS = stainless steel.*

Dayton

Sludge Pumps

- Pump discharge: 4" dia.
- Max. liquid temp.: 140°F
- Include 20-ft. power cord

Use to transfer a mixture of fluid, usually water and pulverized solids. They are attached to a tank to drain the sludge that is noncorrosive and nonexplosive. Pumps are suitable for use in sewage treatment and industrial applications. Three-phase pumps have motors that are more efficient than one phase, and they use a higher voltage that allows for larger motors that require less current than lower-voltage motors. All models require a control panel, sold separately on page 2655.


No. 12U566

HP	Overall Height	Dia.	Min. Sump Pit Dia.	Amps	Body Material*	Impeller Material*	Flow Rate @ Ft. of Head (GPM) 5	10	30	Max. Head	Max. Diameter Solids	Mfr. Model	Item No.
1-Phase													
7 ½ hp	29 5/16 in	16 13/16"	96 in	58.2 A	CI	CI	770	740	475	54.0 ft	3 in	12U574	**12U574**
3-Phase													
2 hp	28 3/8 in	15 13/16"	96 in	8.8 A	CI	CI	385	330	25	32.0 ft	3 in	12U566	**12U566**
3 hp	28 3/8 in	15 13/16"	96 in	13.2 A	CI	CI	482	420	130	40.0 ft	3 in	12U569	**12U569**
15 hp	33 5/8 in	17½"	96 in	57.2 A	CI	CI	940	890	705	78.0 ft	3 in	12U579	**12U579**

** CI = cast iron.*

Zoeller Pump Company | Dayton

Pump Guide Rail Systems

Allow large and heavy pumps to be installed and removed from a sump pit without having to enter the sump pit. They use a guide rail and a chain or rope to pull sump pumps up and out of the sump pit for maintenance or inspection, then lower pumps back down into the sump pit. Systems come with a guide rail that is attached to the outlet pipe at the bottom of the sump pit. An adapter is mounted on the pump's outlet and a flanged U-fitting is attached to the outlet pipe and check valve. The pump slides down the guide rails and when it reaches the bottom of the sump pit the adapter on the pump's outlet and the U-fitting on the outlet pipe come together for a proper seal.


No. 463U34


No. 20Y787

Pump Discharge	Rail System Discharge	Material	For Use With	Brand	Mfr. Model	Item No.
Guide Rail System						
1¼" Flange	1¼" Flange	Ductile Iron	Series 803, 805, 807, 818, 819, 820, 840	Zoeller	39-0156	**463U34**
2½" Flange	3" Flange	Cast Iron	12T645 to 12T652	Dayton	20Y787	**20Y787**
3" Flange	4" Flange	Cast Iron	12U565 to 12U580	Dayton	20Y788	**20Y788**
Guide Rail Gasket Kit						
—	—	—	12U565 to 12U580	Dayton	20Y790	**20Y790**
—	—	—	12T645 to 12T652	Dayton	20Y789	**20Y789**



Dayton
No. 12F741



Dayton
No. 2VJ77



Zoeller
No. 2P778



Liberty Pumps
No. 1GEK4



Flotec
No. 401Z78



Hartell
No. 411M32



Little Giant
No. 4NY91



Liberty Pumps
No. 2WMN6

Sink Drain Pump Systems

- **Max. dia. solids: ⅜"**

Allow for wastewater draining of sinks, tubs, and washing machines where a gravity system won't work, such as in a basement that is below the main sewer line. Pumps are connected near the area to be drained and allow automatic basin draining when the basin is full. Dayton® systems have a vertical float switch while Nos. 12F739 and 12F740 have nonclogging stainless steel impellers. Liberty Pumps® models feature a separate access cover to ease switch maintenance and a piggyback-style plug. Little Giant® pumps have thermal overload protection. Nos. 36N560 and 36N561 are preassembled while No. 4NY91 is compact for tight spaces. Zoeller® models can be installed with an internal trap to save space and have no inlet filters or screens to clean.

HP	Switch Actuation	Amps	Basin Inlet Diameter	Basin Height	Basin Dia.	Basin Capacity (gal.)	Basin Material*	Pump Body Material*	Max. Liquid Temp.	Cord Length	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head (ft.)	Brand	Mfr. Model	Item No.
110VAC																		
½	Diaphragm	9.4	1½"	10⅞"	12⅛"	5.0	PP	CI	130 °F	15 ft	72	61	45	25	23	Zoeller	131-0001	**5CZG1**
	Vertical Float	4.9	1½"	13⅜"	—	6.0	HDPE	CI	140 °F	10 ft	42	38	32	24	26	Dayton	12F740	**12F740**
	Vertical Float	4.9	1½"	13⅜"	—	6.0	HDPE	TPL	140 °F	10 ft	55	51	46	39	28	Dayton	12F741	**12F741**
	Vertical Float	7.3	2"	14⅛"	13¾"	5.5	PO	PP	122 °F	10 ft	48	44	39	32	34	Liberty Pumps	405	**1GEK5**
⅓	Vertical Float	3.1	1½"	12½"	11¾"	5.0	TPL	TPL	130 °F	10 ft	38	30	14	—	18	Dayton	2VJ77	**2VJ77**
	Vertical Float	4.0	1½"	14 13⁄64"	15 13⁄16"	6.0	SF	SF	70 °F	8 ft	51	40	28	11	22	Flotec	FPZS33LTS	**401Z78**
	Vertical Float	4.1	1½"	13⅜"	—	6.0	HDPE	CI	140 °F	10 ft	36	30	25	12	25	Dayton	12F738	**12F738**
	Vertical Float	4.1	1½"	13⅜"	—	6.0	HDPE	TPL	140 °F	10 ft	40	36	32	23	25	Dayton	12F739	**12F739**
	Vertical Float	5	1½"	11⅛"	13¾"	4.3	PO	PP	140 °F	10 ft	38	25	15	4	21	Liberty Pumps	404	**1GEK4**
	Vertical Float	5.6	1½"	6 13⁄16"	—	2.0	ABS	PP	130 °F	8 ft	48	35	10	—	16.5	Hartell	LTS-1	**411M31**
	Vertical Float	9.7	1½"	10⅞"	12⅛"	5.0	PP	CI	130 °F	9 ft	43	34	19	10	19.2 ft	Zoeller	105-0001	**2P778**
¼	Vertical Float	5.0	1½"	6 13⁄16"	—	1.0	ABS	PP	130 °F	8 ft	45	25	—	—	12	Hartell	LTP-1	**411M30**
⅛	Diaphragm	2.2	1½"	—	—	1.0	—	ABS	140 °F	8 ft	28	10	—	—	11	Hartell	LTA-1	**411M32**
1/6	Diaphragm	5	1½"	15 9⁄16"	—	5.0	PP	—	120 °F	10 ft	15	12	8	—	21	Little Giant	WRS-5	**36N560**
110VAC, 220VAC																		
⅓	Diaphragm	9	1½"	10½"	14"	3.5	PP	—	140 °F	10 ft	46	29	13	—	18	Little Giant	WRSC-6	**4NY91**
	Diaphragm	9	1½"	15 9⁄16"	—	5.0	PP	—	120 °F	10 ft	46	29	13	—	18	Little Giant	WRS-6	**36N561**
208VAC, 220VAC																		
½	Vertical Float	3.5	2"	14⅛"	13¾"	5.5	PO	PP	122 °F	10 ft	48	44	39	32	34	Liberty Pumps	405HV	**2WMN6**

** ABS = acrylonitrile butadiene styrene, CI = cast iron, HDPE = high-density polyethylene, PO = polyolefin, PP = polypropylene, SF = structural foam, TPL = thermoplastic.*



Liberty Pumps
No. 10V132



Little Giant
No. 4HGH7



Zoeller
No. 5CZF9



Zoeller
No. 6JGW5

Sump Pump Systems

- **Max. dia. solids: ⅜", except Nos. 5CZF9 and 6JGW5 are ½", No. 4HGH7 is 2"**

Quickly remove wastewater where gravity drain lines are not available. Nos. 10V133 and 10V132 are for use in dewatering crawl spaces, basements, and where water pooling occurs. No. 4HGH7 has discharge and electrical connections on the side of the basin allowing the top of basin to be flush with ground level. Nos. 5CZF9 and 6JGW5 help eliminate water and dampness, preventing damage, odors, and mold/fungus growth. All systems include a pump, pipe, sump basin, and sump basin cover suitable for a basement sump pump installation.

HP	Switch Actuation	Amps	Basin Height	Basin Dia.	Basin Capacity (gal.)	Basin Material*	Pump Body Material*	Max. Liquid Temp.	Cord Length	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head (ft.)	Brand	Mfr. Model	Item No.
4/10	Tether Float	13	30"	20"	13.0	PE	PE	120 °F	20 ft	110	70	30	—	20	Little Giant	WCR-9SP	**4HGH7**
½	Vertical Float	7.5	15"	15"	7.5	PE	AL, PP	140 °F	10 ft	48	44	38	32	34	Liberty Pumps	CSP-457	**10V133**
⅓	Vertical Float	5.2	15"	15"	5.2	PE	AL, PP	140 °F	10 ft	38	18	20	48	21	Liberty Pumps	CSP-237	**10V132**
3⁄10	Vertical Float	9.7	22"	18"	9.7	PP	CI	130 °F	9 ft	43	34	19	—	19	Zoeller	900-0002	**6JGW5**
3⁄10	Vertical Float	9.7	10⅞"	12⅛"	9.7	PE	CI	130 °F	25 ft	43	34	19	—	19.2 ft	Zoeller	108-0001	**5CZF9**

** AL = aluminum, CI = cast iron, PE = polyethylene, PP = polypropylene.*

Pump Replacement Parts/Accessories

Additional replacement parts are available on Grainger.com®.

Description	For Use With	For Use With	Mfr. Model	Item No.
Liberty Pumps				
Pump Stand	Mfr. No. 237, 230, 233, 457, 450, 453, 257, 287	2WMJ9, 2WMK1-5, 5YE75, 5YE77	4445000	**5YE79**
Little Giant				
Diaphragm Switch Repair Kit	Mfr. No. RS-5-18, 6-CIA, 8-CBA, 10-CIA	2P353, 3P639, 3P641, 3P643	SPRK-2	**4NXN6**
Garden Hose Adaptor	3P640	3P640	GH-3/4	**4NXN2**
Housing/Switch	4XK40	4XK40	106396	**4NXK5**
Housing/Switch	3P639, 4NY91	3P639, 4NY91	108049	**4NXK8**
Impeller	Mfr. No. 5MSP-18	2P352	105310	**4NXJ7**
Intake Screen	Mfr. No. 506923	4NY91	113131	**4NXL4**
Tank	Mfr. No. 3-ABS, VCL-45S, VCL-14ULS, VCL-24ULS, VCL-24ULS-230, VCL-45ULS-230	2GZG2, 2P096, 3P731, 3P732, 4RL05, 4RL06	153502	**4NXL5**
Volute	Mfr. No. 1-AA, 1-A, 1-AA-18, PE-1	1P553, 1P939, 2P526, 3P734	101375	**4NXH8**
Volute	Mfr. No. 2E-N, 2E-NYS, PE-2H	1P321, 4RK84, 4RK93	102332	**4NXJ1**
Volute	Mfr. No. 2E-38N, 2E-NDVR, 2E-38N-WG, 2E-38NY	1P372, 1P521, 4RK85, 4XK38	102375	**4NXJ2**
Volute Base	Mfr. No. 506951, 6EN-CIM	4XK40, 4XK41	106369	**4NXK4**
Wide Angle Float Switch	Mfr. No. WCR-9SP, 9S-SMPX-LG, 9SN-CIA-RF, 509925, 10E-CIA-RFS	4HGH7, 4NY89, 4NY90, 4RK90, 4RK91	RFSN-9	**4NXN3**
Zoeller				
Arm and Seal	2P547 to 2P550	2P547-2P550	004704	**2VJ66**
Cap & Switch Unit	2P547, 2P549, 2P550	2P547, 2P549	004702	**2VJ75**
Capacitor	Mfr. No. M292, N292, M3098	2P555, 4NW21, 4P023	003575	**2VJ67**
Flange Kit	Mfr. No. D284, M292, N292, G295, E284, J284	2P554, 2P555, 4NW21-4NW28, 4NW31, 4NW32	10-1305	**2VJ76**
Mechanical Switch	Mfr. No. M137, M267	2P551, 2P552	004740	**2VJ71**
Mechanical Switch	2P554, 2P555	2P554, 2P555	004744	**2VJ72**
Mechanical Switch	Mfr. No. M53, M98, M264, M3098	2P547-2P550, 4NW06, 4P023	004705	**2VJ73**
Mechanical Switch	2P553	2P553	004755	**2VJ74**
Power Cord	Mfr. No. M53, M55, M57	2P547-2P549	004700	**2VJ68**
Pump Stand	Sump & Effluent Pumps	Sump & Effluent Pumps	10-2421	**3NXV7**
Relay	2P555, 4NW21	2P555, 4NW21	217092	**2VJ69**
Relay	Mfr. No. E191, E284	4NW20, 4NW31	217093	**2VJ70**


No. 4HEX6

ZOELLER PUMP COMPANY

Intrinsically-Safe Sewage Ejector Pumps

- Max. liquid temp.: 104°F
- 20-ft. power cord

Feature vertical float switch actuation and a nonsparking motor that won't ignite flammable liquids. They transfer sewage containing solids and flammable liquids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. Models have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. Carbon/ceramic shaft seal. For use in sump pits with a minimum 24" dia. FM Approved.

HP	Discharge	Max. Head	Max. Dia. Solids	Body Material*	Impeller Material*	Base Material*	Dia.	Rated Voltage	Amps	Flow Rate @ Ft. of Head 10	Flow Rate @ Ft. of Head 20	Mfr. Model	Item No.
½	1½" FNPT	56.0 ft.	¾ in	CI	BZ	CI	13⅝"	115VAC	15.50	93.0 gpm	79.0 gpm	MX161	4HEX6
½	2" FNPT	40.0 ft.	2 in	CI	CI	CI	13⅝"	115VAC	15.00	120.0 gpm	87.0 gpm	MX292	4HEX8
1	2" FNPT	35.0 ft.	2 in	CI	CI	CI	13⅝"	230VAC	8.90	157.0 gpm	106.0 gpm	DX284	4HEX7
2	2" FNPT	75.0 ft.	2 in	CI	CI	CI	13⅝"	230VAC	17.10	199.0 gpm	173.0 gpm	DX295	4HEX9

** BZ = bronze, CI = cast iron.*


No. 6WY64


No. 5VD15

SANDPIPER A WARREN RUPP, INC. BRAND ARO®

Pneumatic Utility and Dewatering Pumps

These self-priming and run-dry capable pumps operate at low speeds to handle mud, leaves, twigs, sand, sludge, trash-laden water, and soft solids without clogging or choking. They are powered by an air compressor and don't have an electric motor that produces sparks that may ignite flammable liquids. Pumps transfer moderate amounts of water on jobsites and accept an inlet hose so they don't have to be placed in the water that needs to be drained. They are self-draining to prevent damage in below-freezing weather and have a continuous automatic lubricating internal oiler and an oil-batch-lubricated shaft seal. Nos. 5VD16 and 5VD15 have a screened inlet and an adjustable impeller and impeller cover to help maintain peak performance. All models have a cast-iron, 2-vane trash-type impeller. CE Certified.

Air Inlet Pressure	Max. Head	Discharge	Max. Diameter Solids	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head 10	Flow Rate @ Ft. of Head 20	Flow Rate @ Ft. of Head 30	Brand	Mfr. Model	Item No.
80 psi	64.7 ft.	3" FNPT	1 ½ in	AL	CI	160°F	275.0 gpm	210.0 gpm	150.0 gpm	SANDPIPER	SMA3,6AM1.	6WY64
90 psi	90.0 ft.	2½" FNPT	¼ in	CI	CI	150°F	85.0 gpm	75.0 gpm	70.0 gpm	Aro	P237A1-EU	5VD15
90 psi	240.0 ft.	2" FNPT	¼ in	CI	CI	150°F	240.0 gpm	230.0 gpm	225.0 gpm	Aro	P35A1-EU	5VD16

** AL = aluminum, CI = cast iron.*

Dayton · ZOELLER PUMP COMPANY · Liberty Pumps · PRO SERIES PUMPS PHCC

Sump/Sewage Check Valves

Prevent backflow of sump disposal lines, wastewater lines, sewage lift stations, and ejector systems. They are used in combination with piston, diaphragm and metering pumps and commonly use ball check valves that combine balls and seats in the same valve body for a leak-free shutoff. For additional sizes, go to Grainger.com® and search for "sewage check valves."

Klunkless™, No. 1XHV8—A large "silencing air chamber" absorbs the clunking sound when the sump pump turns off.


No. 12U355


No. 2P843


No. 1XHV8


No. 4UN78


No. 4RG88


No. 4RG90

Item	Size	Connec. Type	Material of Construc.*	Mounting Position	Brand	Item No.
Check Valve	1¼" or 1½"	Slip Union	TPR	Vertical	Dayton	4UN79
Check Valve with Ball Valve	1½"	Socket	PVC	Vertical	Dayton	4RG92
	1½"	Solvent	PVC	Vertical or Horizontal	Zoeller	12U355
	2"	Socket	PVC	Vertical	Dayton	4RG93
	2"	Solvent	PVC	Vertical or Horizontal	Zoeller	12U356
Check Valve with Ball Valve and Union	1½"	Socket	PVC	Vertical or Horizontal	Zoeller	5CZG9
	2"	Socket	PVC	Vertical or Horizontal	Zoeller	5CZH0
Check Valve with Union	1½"	Socket	PVC	Vertical or Horizontal	Zoeller	5CZH1
	2"	Socket	PVC	Vertical or Horizontal	Zoeller	5CZH2
Full Flow Check Valve	1¼" or 1½"	Slip x Slip	PVC	Vertical or Horizontal	Zoeller	2P843
	1½"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	6JGV5
	2"	FNPT	CI	Vertical or Horizontal	Zoeller	2P845
	2"	Slip x Slip	PVC	Vertical or Horizontal	Zoeller	2P844
	3"	Compression	PVC	Vertical or Horizontal	Zoeller	5CZG8
	3"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	6JGV7
High Temp. Swing Check Valve	1½"	FNPT	CI	Vertical or Horizontal	Liberty Pumps	4DKK7
	2"	FNPT	CI	Vertical or Horizontal	Liberty Pumps	4DKK8
Klunkless Check Valve	1¼" or 1½"	Slip Union	ABS	Vertical	PHCC Pro Series	1XHV8
Screw-In Check Valve	1¼" or 1½"	MNPT	TPR	Vertical	Dayton	4UN78
Silent Check Valve	2"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	6JGV6
Swing Check Valve	1½"	Compression	PVC	Vertical	Dayton	4RG88
	2"	Compression	PVC	Vertical	Dayton	4RG89
True Union Swing Waste Water Check Valve	1½"	Socket	PVC	Vertical	Dayton	4RG90
	2"	Compression	PVC	Vertical	Dayton	4RG91

** ABS = acrylonitrile butadiene styrene, CI = cast iron, PVC = polyvinyl chloride, TPR = thermoplastic rubber.*

Sump and Sewage Float and Diaphragm Switches

- **Normally Closed: pump up for filling applications**
- **Normally Open: pump down for dewatering applications**

Switches connect directly to the pump, or the pump's power cord is plugged into the switch to control electric power to the pump.

Note: Use only with liquids compatible with switch construction.

Tether Float—Activated by a float that is attached to the pump by a flexible tether that can be adjusted so the pump starts and stops automatically at preset levels. They require more space to operate compared to vertical float switches since the flexible tether moves in an arc as the water level rises and falls in the sump basin.

Vertical Float—Suitable for smaller-diameter sump basins since they use a float that moves a rod straight up and down to activate the switch. The switch starts and stops the pump automatically when the water reaches a preset level.

Diaphragm—Switches are activated by pressure within a diaphragm to start and stop pumps automatically when the water reaches a certain level. They have no moving parts, are compact so they take up little space, and require periodic cleaning since the diaphragm switch may get clogged with debris. Diaphragm switches connected to a tether are often adjustable so the pump will start and stop when the water reaches a desired level.

▶**Switch Accessories—**No. 45JZ57 can mount up to 4 float cables. No. 45JZ58 seals off cables coming into an enclosure. Nos. 45JZ59 to 45JZ61 can mount a float cable to PVC pipe.



Tether Float No. 3BY74



Tether Float No. 3BY81



Tether Float No. 4ZZF3



Tether Float No. 6PNV7

Nominal Voltage	Cord Length	Amps	On Point	Off Point	Minimum Tether Length	Maximum Tether Length	Max. Liquid Temp.	Float Material*	Brand	Item No.
Tether Float										
Piggyback, Normally Closed										
	10 ft.	10A	45° Below Horizontal	45° Above Horizontal	3"	18"	140°F	ABS	Dayton	**3BY74**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ24**
	10 ft.	13A	—	—	3"	18"	140°F	ABS	Dayton	**3BY78**
	10 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ28**
	15 ft.	10A	45° Below Horizontal	45° Above Horizontal	3"	18"	140°F	ABS	Dayton	**3BY75**
110 V AC	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ25**
	15 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ29**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ26**
	20 ft.	13A	—	—	3"	18"	140°F	ABS	Dayton	**3BY80**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ30**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ27**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ31**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ33**
220 V AC	20 ft.	13A	—	—	3"	18"	140°F	ABS	Dayton	**3BY85**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ39**
Piggyback, Normally Open										
	10 ft.	12A	—	—	—	—	104°F	ABS	PHCC Pro Series	**38G748**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV6**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU4**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV30**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY91**
	10 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY95**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU5**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**3BY82**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY92**
	15 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY96**
	20 ft.	13	14" Above Base	6" Above Base	—	—	120°F	PVC	Little Giant	**44ZJ19**
	20 ft.	13	14" Above Base	6" Above Base	—	—	120°F	PVC	Little Giant	**44ZJ35**
110 V AC	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU7**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV33**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY93**
	20 ft.	13A	—	—	3"	18"	186°F	ABS	Dayton	**3BY81**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU9**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY97**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV1**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**3BY83**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV36**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY94**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**10A175**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV3**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JY98**
	60 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV4**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV31**
	10 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ04**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**3BY84**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU6**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNU8**
220 V AC	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV34**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV0**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ06**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV2**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**10A176**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV5**
Wire Leads										
110 V AC, 220 V AC	15 ft.	13A	Adjustable	Adjustable	3½"	24"	140°F	PVC	SJE-Rhombus	**53CK41**
Wire Leads, Normally Closed										
	10 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ49**
	10 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ48**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ40**
	10 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ44**
	15 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ50**
	15 ft.	13A	45° Below Horizontal	45° Above Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ41**
	15 ft.	15A	45° Below Horizontal	45° Above Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ45**
110 V AC, 220 V AC	20 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ52**
	20 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ53**
	20 ft.	13A	45° Below Horizontal	45° Above Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ42**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ46**
	30 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ55**
	30 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ54**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ43**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ47**

** PP = polypropylene, PC = polycarbonate.*

CONTINUED

CONTINUED

Sump and Sewage Float and Diaphragm Switches

Nominal Voltage	Cord Length	Amps	On Point	Off Point	Minimum Tether Length	Maximum Tether Length	Max. Liquid Temp.	Float Material*	Brand	Item No.
Tether Float (Cont.)										
Wire Leads, Normally Open										
5 V DC, 30 V DC, 110 V AC	20 ft.	1mA @ 5V, 0.16mA to 0.1A @ 30V, 0.16mA to 0.1A @ 125V	15° Below Horizontal	15° Above Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**464P68**
110 V AC, 220 V AC	10 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ17**
	10 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ16**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV32**
	10 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ08**
	10 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	24"	140°F	PVC	SJE-Rhombus	**45JZ12**
	10 ft.	20A	45° Above Horizontal	45° Below Horizontal	5"	22"	120°F	PVC	SJE-Rhombus	**5AEP0**
	15 ft.	5A	1½" Above Base	1½" Below Horizontal	3"	20"	140°F	PP	SJE-Rhombus	**45JZ18**
	15 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ19**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	221°F	ABS	Dayton	**10A173**
	15 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ09**
	15 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ13**
	15 ft.	20A	45° Above Horizontal	45° Below Horizontal	5"	22"	120°F	PVC	SJE-Rhombus	**5AEP1**
	20 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ21**
	20 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ20**
	20 ft.	10A	25° Above Horizontal	10° Below Horizontal	3"	18"	140°F	ABS	Dayton	**10A172**
	20 ft.	10A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**3BY79**
	20 ft.	10A @ 120V, 5A @ 240V	5° Above Horizontal	45° Below Horizontal	4"	6"	190°F	ABS	GE	**4ZZF3**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**6PNV7**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV35**
	20 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ10**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3"	18"	140°F	ABS	Dayton	**10A174**
	20 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ14**
	20 ft.	20A	45° Above Horizontal	45° Below Horizontal	5"	22"	120°F	PVC	SJE-Rhombus	**5AEP2**
	30 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ23**
	30 ft.	5A	1½" Above Base	1½" Below Horizontal	3½"	3½"	140°F	PP	SJE-Rhombus	**45JZ22**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3"	18"	200°F	PP	SJE-Rhombus	**45DV38**
	30 ft.	13A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ11**
	30 ft.	15A	45° Above Horizontal	45° Below Horizontal	3½"	24"	140°F	PVC	SJE-Rhombus	**45JZ15**
	30 ft.	20A	45° Above Horizontal	45° Below Horizontal	5"	22"	120°F	PVC	SJE-Rhombus	**5AEP3**
120 V AC	10 ft.	13A	8⅛" Above Base	3¼" Above Base	2¾"	4½"	140°F	PVC	Liberty Pumps	**38A978**
Wire Leads, Normally Open/Normally Closed										
120 V AC	15 ft.	1	1½"	1½"	3½"	3½"	140 Degrees F	PP	SJE-Rhombus	**55KD99**
	30 ft.	1	1½"	1½"	3½"	3½"	140 Degrees F	PP	SJE-Rhombus	**55KE01**
220 V AC	20 ft.	10	Adjustable	Adjustable	—	—	122°F	PP	Flowline	**49K046**
	20 ft.	10	Adjustable	Adjustable	—	—	176°F	PP	Flowline	**49K048**
	50 ft.	10	Adjustable	Adjustable	—	—	122°F	PP	Flowline	**49K047**
	50 ft.	10	Adjustable	Adjustable	—	—	176°F	PP	Flowline	**49K049**
Piggyback, Normally Open										
110 V AC	10 ft.	12A	Adjustable	Adjustable	—	—	104°F	ABS	PHCC Pro Series	**49AX02**
	10 ft.	12A	Adjustable	Adjustable	—	—	104°F	ABS	Dayton	**1APP4**
Vertical Float										
Piggyback										
110 V AC	8 ft.	10A	Top Stop	Bottom Stop	—	—	140°F	ABS	Dayton	**10A169**
Piggyback, Normally Open										
110 V AC	10 ft.	10A	Top Stop	Bottom Stop	—	—	140°F	ABS	Dayton	**10A170**
	10 ft.	12A	Adjustable	Adjustable	—	—	104°F	PP	PHCC Pro Series	**49AX06**
	10 ft.	15A	Adjustable	Adjustable	—	—	104°F	PP	PHCC Pro Series	**49AX01**
	20 ft.	10A	Top Stop	Bottom Stop	—	—	140°F	ABS	Dayton	**10A171**
110 V AC, 220 V AC	10 ft.	13	Adjustable	Adjustable	—	—	110°F	PVC	Little Giant	**3VA90**
Diaphragm										
Piggyback, Normally Open										
110 V AC	15 ft.	13	Adjustable	Adjustable	—	—	140°F	PC	Little Giant	**3XY20**
	18 ft.	10	Adjustable	Adjustable	—	—	110°F	Nylon	Little Giant	**2P353**
	18 ft.	10	Adjustable	Adjustable	—	—	120°F	Buna-N	Little Giant	**4RL50**

** PP = polypropylene, PC = polycarbonate.*

Description	For Use With	Brand	Item No.
Switch Accessories			
Float Bracket	Floats with 18/2, 18/3, 16/2, 16/3, SJOW and SJTW Cords	SJE-Rhombus	**45JZ57**
Cable Weight	Accommodates SJOW, SJTW, 18/2, 18/3, 16/2, 16/3, 14/2, 14/3 Wire and Cable	SJE-Rhombus	**45JZ56**
Cable Seal	Accommodates SJOW, SJTW, 18/2, 18/3, 16/2, 16/3, 14/2, 14/3 Wire and Cable	SJE-Rhombus	**45JZ58**
Cable Clamp	12 ga. Wire/Cable	SJE-Rhombus	**45JZ61**
Cable Clamp	14 ga. Wire/Cable	SJE-Rhombus	**45JZ60**
Cable Clamp	18 ga. and 16 ga. Wire/Cable	SJE-Rhombus	**45JZ59**



Vertical Float No. 10A169



Vertical Float No. 3VA90



Diaphragm No. 2P353



Diaphragm No. 4RL50

Auto Dialer and High-Water Alarms

Liberty Pumps® No. 4DKK5—Automatically calls up to 4 phone numbers to send a 16-sec. recorded warning. LED display. Unit requires a 9V battery (not included) for battery backup. Indoor mounting only.

PHCC Pro Series No. 4NE49—Detects water as shallow as 1/32" and sounds alarm for up to 72 hr. on a new 9V alkaline battery (sold separately).

Little Giant® No. 4NY92—Audible and visual alarms operate on 9VDC battery backup if power fails. Includes test switch and 6-ft. 18/2 power cord. For indoor use.

Zoeller® No. 53MD94 and 2VJ64—No. 53MD94 indoor alarm has battery backup and manual shutoff. No. 2VJ64 is for indoor/outdoor use.

Liberty Pumps® No. 54TY42—NightEye™ enabled so you can connect to your wireless network and receive notifications about your system in real time. Model includes a 9V battery, compact snap-on sensor float, and 10-ft. float cord.



No. 4NE49



No. 4NY92



No. 2VJ64

Voltage	Amps	Power Cord Length	Brand	Mfr. Model	Item No.
Auto Dialer					
120 VAC Adapter, 9V Battery Back Up			Liberty Pumps	ADC-1	**4DKK5**
Indoor High Water Alarm					
9 DC	—	—	PHCC Pro Series	PWA	**4NE49**
115 AC	—	6 ft.	Little Giant	HWAB	**4NY92**
Level Alarm					
115VAC	0.5	6 ft.	Zoeller	10-4489	**53MD94**
115VAC	0.05	9 ft.	Liberty Pumps	ALM-P1	**54TY42**
Outdoor High Water Alarm					
115 AC	—	6 ft.	Zoeller	10-0682	**2VJ64**


No. 4RK10

Sump/Sewage Basins

Dayton · LittleGIANT · Zoeller Pump Company

Polyethylene basins and covers are seamless and corrosion-resistant.


No. 4NW29


No. 21F469

Description	Inlet	Outlet	Vent	Material	H	Dia.	Cap.	Includes	Brand	Mfr. Model	Item No.
Sump Basin	1½"	1¼" and 1½"	2"	Structural Foam	14"	—	11.0 gal.	Cover	Dayton	4RK10	**4RK10**
	—	½" Perforations	—	Polyethylene	22"	18"	18.0 gal.	—	Little Giant	BP1822	**2EHL9**
	—	1½"	3"	Polyethylene	22"	18"	18.0 gal.	Cover, Sealing Hardware, Flanges	Zoeller	31-0249	**4NW29**
	—	—	—	Polyethylene	22"	18"	22.0 gal.	—	Zoeller	31-0444	**12U350**
Sewage Basin	4"	—	—	Polyethylene	30"	18"	30.0 gal.	4" FG HUB	Zoeller	31-0080	**12U346**
	4"	—	—	Poly Structural Foam	36"	24"	65.0 gal.	4" CI HUB	Zoeller	31-0110	**12U348**
Sump Basin Cover	—	Slotted	—	Polyethylene	1"	20"	—	—	Zoeller	17-0135	**12U351**
	—	2"	—	Polyethylene	2"	20½"	—	Hardware, Discharge Grommet, Cord Grommet, Sealing Tape	Little Giant	14940654	**21F469**
Sewage Basin Cover	—	2"	2 or 3"	Poly Structural Foam	1"	20½"	—	Hardware Pack Includes (Screws, Washers, Lid Seal, Pipe And Cord Grommets)	Zoeller	17-0411	**12U347**
	—	2"	2"	Steel	1"	28"	—	Hardware Pack	Zoeller	17-0806	**12U349**


No. 33RW83

Portable Self-Priming Utility Pumps

Dayton · Zoeller Pump Company · Liberty Pumps · LittleGIANT

Pump repair kits for select models are sold separately.

CENTRIFUGAL PUMPS

No. 5PXY0—For irrigation, general water transfer, and other continuous-duty applications. Model has ball bearings and comes with a mechanical carbon ceramic/stainless steel/Buna N seal. Open-type impeller.

Nos. 4HEX4 and 33RW83—Use to water lawns, pump out flooded basements, and boost city water pressure. Intermittent duty with mechanical carbon/ceramic seals. No. 4HEX4 has permanently lubricated shielded ball bearings, external brush holders, and rubber feet; No. 33RW83 has ball bearings and replacement brushes.

No. 5YU12—Provides high head and high pressures to move water quickly. On/Off switch and a large hand-tightened prime plug with internal funnel design to ease priming. Ball bearings, mechanical carbon/ceramic/Buna N seals, and a stainless steel retention plate helps extend seal life by retaining water on the shaft seal. Open-type impeller.


No. 5YU12

FLEXIBLE IMPELLER PUMPS

Ideal for transferring liquids and emptying bowls, sinks, tanks, bilges, and have a dual inlet and outlet. Intermittent duty.


No. 3YU60


No. 3YU61

No. 3YU61—Pump comes with ball bearings, Buna N lip seal, and a lightweight plastic housing.

Nos. 5UXL8 to 5UXN6—Feature stainless steel shaft and ball bearings, except Nos. 5UXN4 to 5UXN6 have sleeve bearings. Each includes 2 impellers and gasket. Nos. 5UXL7 and 5UXL9 have thermally protected motors.

SPRINKLER/UTILITY CENTRIFUGAL PUMPS

Continuous duty pumps.

No. 3YU60—Use to transfer water, run multiple lawn sprinklers, or boost city water pressure. Ball bearings and mechanical carbon/ceramic/Buna N seal. Model has overload protection and an On/Off switch.

No. 4CUK6—Suitable for transferring liquids and emptying bowls, sinks, tanks, and bilges. Dual inlet and outlet. Has ball bearings, stainless steel shaft, and mechanical carbon/ceramic seal.

Impeller	HP	Voltage	Amps AC	Motor Encl.	Motor Type	Cord	Inlet/ Outlet (in.)	Body Material†	GPM of Water @ Total Ft. of Head* 5	10	20	40	Max. Head (ft.)	Max. Suction Lift (ft.)	Max. Liquid Temp. (°F)	Brand	Mfr. Model	Item No.
Centrifugal Pumps																		
Aluminum	½	115V	2	ODP	Capacitor-Start	8 ft.	1" NPT	AL	41	38	32	6	46	—	180	Dayton	5PXY0	**5PXY0**
Thermoplastic	½	115V	2	Nema 1	AC	20 ft.	1" NPT	CI	23	22.5	21.5	18	115	—	120	Zoeller	314-0002	**4HEX4**
Nylon, Fiberglass	½	115V	2	ODP	AC/DC Brush	10 ft.	1" NPT	PP, FG	22.7	21.6	19	14.2	118	—	120°	Dayton	33RW83	**33RW83**
Thermoplastic	½	115V	2	Nema Type 3	AC/DC Brush	20 ft.	1" NPT	CA	23	22	19	15	105	—	135	Liberty Pumps	331	**5YU12**
Flexible Impeller Pumps																		
Rubber	½12	115V	2	ODP	AC/DC Brush	10 ft.	1" NPT	P	5.5	5.0	4	1	43	—	77	Dayton	3YU61	**3YU61**
Buna-N	⅒	12VDC	6.5 to 10	Open	DC	7 Ft	⅜ ID; ¾ OD Garden Hose	NPB	3.72	3.32	2.31	—	36.7	7	140	Dayton	5UXL8	**5UXL8**
Buna-N	⅒	12VDC	6.5 to 10	Open	DC	7 Ft	⅜ ID; ¾ OD Garden Hose	SS	3.72	3.32	2.31	—	36.7	7	140	Dayton	5UXN0	**5UXN0**
Buna-N	⅒	12VDC	7.0	Totally Enclosed Nonventilated	DC Brush	12" Leads	¾" Male GHT / ⅜" FNPT	NPB	—	—	—	—	46	7	120	Little Giant	365	**5UXN5**
Buna-N	⅒	115V	1.6	Open	Universal AC/DC	6 Ft	⅜ ID; ¾ OD Garden Hose	NPB	5.2	4.43	3.05	—	37.3	7	140	Dayton	5UXL7	**5UXL7**
Buna-N	⅒	115V	1.6	Open	Universal AC/DC	6 Ft	⅜ ID; ¾ OD Garden Hose	SS	5.2	4.43	4.5	—	37.3	7	140	Dayton	5UXL9	**5UXL9**
Buna-N	⅒	115V	1.6	Open Fan Cooled	AC Brush	6 Ft	¾" male garden hose thread and ⅜" FNPT	NPB	—	—	—	—	48	7	120	Little Giant	360	**5UXN4**
Buna-N	⅒	115V	1.6	Open Fan Cooled	AC Brush	6 Ft with NEMA 5-15P Plug	¾" Male GHT / ⅜" FNPT	SS	—	—	—	130	48	7	120	Little Giant	360S	**5UXN6**
Sprinkler/Utility Centrifugal Pumps																		
Plastic with Brass Insert, SS Wear Ring	½	115V	2	ODP	PSC	10 ft.	1" NPT	P	10.3	9.9	9.6	4.2	134	—	90	Dayton	3YU60	**3YU60**
Thermoplastic	½	115V	2	ODP	PSC	5 ½ ft.	1" NPT	SS	—	—	—	—	148	—	90	Dayton	4CUK6	**4CUK6**

For Use With	Includes	Brand	Item No.
Pump Repair Kits			
5UXL7, 5UXL8, 5UXL9, 5UXN0	2 Impellers, 2 Gaskets, Cam	Dayton	**5UXN1**
5UXL7, 5UXL8, 5UXL9, 5UXN0	2 Impellers, 2 Gaskets	Dayton	**5UXN2**
Mfr. No. 360, 555909, 360S	(2) Impellers, (2) Gaskets	Little Giant	**6EDW3**
Mfr. No. 360, 555909, 360S	(2) Impellers, (2) Gaskets, (1) Viton U-Cup Seal, (1) Felt Washer, (1) Retainer Ring	Little Giant	**6EDW4**

**** To convert to psi, divide total feet of head by 2.31. † AL = aluminum, CA = cast aluminum, CI = cast iron, FG = fiberglass, NPB = nickel plated brass, P = plastic, PP = polypropylene, SS = stainless steel.***



Laundry Tub Water Pump

Dayton

- Max. solids: ⅛" dia.
- Max. viscosity: 31 SSU
- 1725 rpm
- Mechanical seals have stainless steel, Buna N, carbon/ceramic parts

Manually operated, straight centrifugal, gravity-feed pump is designed specifically for moving laundry water from tub to overhead sewer. Aluminum impeller.

HP	Voltage	Amps	Duty	Motor Type	Inlet Size	Outlet Size	Housing Material	GPM of Water @ 0 ft. 0	@ 5 ft. 5	@ 10 ft. 10	Best Efficiency Range GPM @ Head+	Max. Head	Max. Liquid Temp.	Item No.
¼	115V AC	4.5	Continuous	Split Phase	1 ¼ in NPT	1 ¼ in NPT	Aluminum	25	18	4	4 to 23 gpm @ 10 to 2 ft	11 ft.	180°F	**5PXX9**

**** To convert to psi, divide total feet of head by 2.31. + Best operating flow point on the pump curve.***


Little Giant
No. 24WR34



Red Lion
No. 19T430


Little Giant
No. 2P352


Dayton
No. 3YU54


Zoeller
No. 6JGV8


Tsurumi
No. 38H468



Rule
No. 3P993



Dayton
No. 2VAN7


Tsurumi
No. 38H467



Liberty Pumps
No. 56KD65


Sandpiper
No. 6WY63

TSURUMI PUMP
LittleGIANT
red lion
rule
Dayton
Packard
ZOELLER PUMP COMPANY
Liberty Pumps
SANDPIPER

Electric Utility and Dewatering Pumps

Transfer moderate amounts of water on jobsites and accept an inlet hose so they don't have to be placed in the water that needs to be drained. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

110 to 120V Plug-In—Compatible with most standard U.S. residential electrical wall outlets.

200 to 240V Plug-In—Have a high voltage that allows for larger motors that require less current than lower-voltage motors.

Vehicle Battery-Powered—Powered by a vehicle battery and for use on jobsites where an electrical outlet is not available. Pumps receive battery power as long as they're connected to a vehicle's battery (using the included battery clips) and the vehicle's engine is running.

HP	Flow Rate @ 10 Ft. of Head	Discharge	Max. Head	Max. Dia. Solids	Dia.	Nominal Voltage	Body Material*	Impeller Material*	Max. Liquid Temp.	Cord Length	Brand	Mfr. Model	Item No.
110 to 120 Volt Plug-In													
Diaphragm													
1/6	16.7 gpm	1" FNPT	20.0 ft.	—	6"	110 V AC	AL	N	120°F	10 ft.	Little Giant	5-ASP	**24WP21**
	16.7 gpm	1" FNPT	26.3 ft.	—	—	110 V AC	AL	—	120°F	18 ft.	Little Giant	5-ASP-LL	**24WR34**
No Switch Included													
1/6	17.5 gpm	1" MNPT	25.0 ft.	1/8"	6"	110 V AC	ABS	ABS	120°F	8 ft.	Red Lion	RL-MP16	**19T430**
	17.0 gpm	1" FNPT	26.0 ft.	—	6 1/8"	110 V AC	AL	N	120°F	18 ft.	Little Giant	5MSP-18	**2P352**
	11.0 gpm	1 1/8"	15.0 ft.	1/8"	4 1/4"	110 V AC	VT	GFN	150°F	8 ft.	Rule	A53D	**3P992**
	11.0 gpm	1 1/4" MNPT	20.0 ft.	1/8"	6-1/6"	110 V AC	PP	PA	104°F	10 ft.	Dayton	3YU54	**3YU54**
1/4	15.0 gpm	1 1/4" FNPT	20.0 ft.	3/16"	5 3/8"	110 V AC	SS	SS	104°F	20 ft.	Dayton	11C685	**11C685**
	23.0 gpm	1 1/4" MNPT	22.0 ft.	1/8"	6"	110 V AC	PP	PA	104°F	10 ft.	Dayton	3YU55	**3YU55**
	13.0 gpm	1 1/4" MNPT	23.0 ft.	1/8"	7"	110 V AC	SS	PA	104°F	15 ft.	Dayton	3YU64	**3YU64**
1/3	31.0 gpm	1 1/4" MNPT	25.0 ft.	1/8"	6"	110 V AC	PP	PA	104°F	10 ft.	Dayton	3YU56	**3YU56**
	59.0 gpm	1 1/2"MNPT	32.0 ft.	3/16"	6 1/2"	110 V AC	SS	SS	104°F	20 ft.	Dayton	11C686	**11C686**
1/2	57.0 gpm	3/4"-1 1/2" MNPT	30.0 ft.	—	—	110 V AC	PP	—	104°F	15 ft.	Packard	SD300	**44ZC60**
	64.0 gpm	1 1/2" MNPT	35.0 ft.	3/16"	6 1/2"	110 V AC	SS	SS	104°F	20 ft.	Dayton	11C687	**11C687**
	47.0 gpm	2" FNPT	34.0 ft.	—	8"	110 V AC	PP	Plastic	104°F	9 ft.	Zoeller	46-0005	**6JGV8**
	64.0 gpm	2" FNPT	36.0 ft.	1/4"	9 1/8"	110 V AC	SS	304 SS	104°F	20 ft.	Dayton	1XHV4	**1XHV4**
	54.0 gpm	2" MNPT	37.0 ft.	3/16"	7 5/16"	110 V AC	SS	RBR	120°F	20 ft.	Little Giant	FLS-400	**5EAF8**
	46.0 gpm	2" MNPT	39.0 ft.	1/4"	10 1/16"	110 V AC	AL	UR	104°F	20 ft.	Tsurumi	HS2.4S-62	**38H471**
2/3	57.0 gpm	2" MNPT	39.0 ft.	1/4"	7 3/8"	110 V AC	AL	UR	104°F	32 ft.	Tsurumi	LB-480	**38H466**
	57.0 gpm	2" MNPT	39.0 ft.	1/4"	8 1/4"	110 V AC	SS	UR	104°F	32 ft.	Tsurumi	LSR2.4S-61	**38H476**
7/10	—	2"	38.0 ft.	1/4"	7 3/16"	110 V AC	SS	PU	104°F	50 ft.	Dayton	4LA45	**4LA45**
3/4	52.0 gpm	2" MNPT	43.0 ft.	3/8"	10 3/8"	110 V AC	AL	HC	104°F	32 ft.	Tsurumi	HSD2.55S-62	**38H475**
1	82.0 gpm	2" FNPT	49.0 ft.	3/8"	10 3/8"	110 V AC	SS	304 SS	104°F	20 ft.	Dayton	1XHV5	**1XHV5**
	76.0 gpm	2" MNPT	52.0 ft.	1/4"	7 1/4"	110 V AC	SS	DI	120°F	20 ft.	Little Giant	FS-750	**5EAF9**
	77.0 gpm	2" MNPT	59.0 ft.	1/4"	7 9/16"	110 V AC	AL	UR	104°F	50 ft.	Tsurumi	LB-800	**38H468**
	60.0 gpm	3" MNPT	62.0 ft.	1/4"	12 7/16"	110 V AC	AL	UR	104°F	32 ft.	Tsurumi	HS3.75S-62	**38H473**
1 1/4	—	2"	50.0 ft.	1/4"	7 3/16"	110 V AC	SS	PU	104°F	50 ft.	Dayton	4LA43	**4LA43**
2	108.0 gpm	3" MNPT	69.0 ft.	1/4"	7 3/8"	110 V AC	AL	HC	104°F	50 ft.	Tsurumi	LB-1500	**38H470**
	108.0 gpm	3" MNPT	69.0 ft.	5/16"	9 7/16"	110 V AC	AL	DI	104°F	32 ft.	Tsurumi	NK2-15	**38H477**
Sensor													
1/4	12.0 gpm	1 1/8"	15.0 ft.	3/32"	4"	110 V AC	VT	GFN	104°F	8 ft.	Rule	A53S	**3P993**
	22.0 gpm	1 1/4" MNPT	20.0 ft.	3/32"	6"	110 V AC	TPL	TPL	104°F	9 ft.	Dayton	2VAN7	**2VAN7**
	22.0 gpm	1 1/4" MNPT	20.0 ft.	3/32"	6"	110 V AC	TPL	TPL	104°F	50 ft.	Dayton	40GT80	**40GT80**
2/3	57.0 gpm	2" MNPT	39.0 ft.	1/4"	8 3/4"	110 V AC	AL	UR	104°F	32 ft.	Tsurumi	LB-480A	**38H467**
1	77.0 gpm	2" MNPT	59.0 ft.	1/4"	8 3/4"	110 V AC	AL	UR	104°F	50 ft.	Tsurumi	LB-800A	**38H469**
Tether Float													
1/6	16.7 gpm	1" FNPT	26.0 ft.	1/8"	6 1/8"	110 V AC	AL	N	120°F	10 ft.	Little Giant	5-ASP-FS	**35Z923**
1/2	46.0 gpm	2" MNPT	39.0 ft.	1/4"	13 1/2"	110 V AC	AL	UR	104°F	20 ft.	Tsurumi	HSZ2.4S-62	**38H472**
1	60.0 gpm	3" MNPT	62.0 ft.	1/4"	13 1/2"	110 V AC	AL	UR	104°F	32 ft.	Tsurumi	HSZ3.75S-61	**38H474**
Vertical Float													
1/3	35.0 gpm	1 1/2" NPT	25.0 ft.	1/4"	—	—	CI	TPL	140°F	—	Liberty Pumps	S37	**56KD65**
200 to 240 Volt Plug-In													
No Switch Included													
1 1/4	—	2"	50.0 ft.	1/4"	7 3/16"	220 V AC	SS	PU	104°F	50 ft.	Dayton	4LA44	**4LA44**
3	200.0 gpm	3" MNPT	59.0 ft.	5/16"	9 1/4"	220 V AC	AL	HC	104°F	32 ft.	Tsurumi	NK3-22L	**38H481**
	126.0 gpm	3" MNPT	85.0 ft.	5/16"	9 7/16"	220 V AC	AL	DI	104°F	32 ft.	Tsurumi	NK4-22	**38H479**
Vehicle Battery-Powered													
No Switch Included													
—	67.0 gpm	3"	22.0 ft.	1/16"	—	12 V DC	POM	N	—	25 ft.	Rule	EV8000-100	**6PWA8**
1/3	34.0 gpm	1 1/2" FNPT	25.0 ft.	3/8"	10"	12 V DC	AL	CI	150°F	30 ft.	Sandpiper	SPA1 1/2E3	**6WY63**

** 304 SS = 304 Stainless Steel, ABS = acrylonitrile butadiene styrene, AL = aluminum, CI = cast iron, DI = ductile iron, GFN = glass-filled nylon, HC = high chrome, N = nylon, PA = polyamide, POM = acetal, PP = polypropylene, PU = polyurethane, RBR = rubber, SS = stainless steel, TPL = thermoplastic, UR = urethane rubber, VT = Valox®. † Operation of pump in this range will result in reduced pump life and/or motor damage.*



No. 6CGH3


No. 24D038

GA GRAINGER APPROVED

Engine-Driven Centrifugal Pumps

Semi-open pumps are designed for landscaping, construction sites, golf courses, industrial applications, and any dewatering projects.

Type	Includes	For Use With	Item No.
Seal Kit			
Buna	1 Mechanical Seal, 3 Adjusting Washer, 2 Plug Sets, 1 Check Valve, 2 O-rings/Gaskets	11G226	24D040
	1 Mechanical Seal, 3 Adjusting Washer, 2 Plug Sets, 1 Check Valve, 3 O-rings/Gaskets	11G229 and 6CGH3	24D042
		24D038	24D048
		11G235, 13T387, 24D039	24D049
		6CGH2	24D053

Engine Brand	Engine\ Motor Type	Engine Size	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Mechanical Seal*	Solids Handling Cap.	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Item No.
General Purpose															
Koshin	Gas	136cc	1½" NPT	2.85 qt.	AL	CI	Buna N, CRB/ CMC, SS	⅛"	90	82	55	33	141.0 ft.	26 ft.	6CGH1
	Gas	179cc	2" NPT	3.8 qt.	AL	CI		⅛"	156	132	92	—	90.0 ft.	26 ft.	6CGH2
	Gas	179cc	3" NPT	3.8 qt.	AL	CI		⅛"	264	227	158	—	90.0 ft.	26 ft.	6CGH3
Semi-Trash															
Koshin K180	Gas	179cc	2" NPT	3.8 qt.	AL	SG Ductile	SiC, Buna N	¾"	145.8	128.6	91.7	—	85.0 ft.	26 ft.	24D038
	Gas	179cc	3" NPT	3.8 qt.	AL	SG Ductile		¾"	222	185.9	90.6	—	85.0 ft.	26 ft.	24D039

** AL = aluminum, CI = cast iron, CRB/CMC = carbon ceramic, SG = spheroidal graphite, SiC = silicone carbide, SS = stainless steel.*


No. 7AJ11



Emergency Kits—Engine-Driven Pumps

Dayton

All include Dayton® sewage trash pump, 20-ft. suction hose, 50-ft. discharge hose(s), connectors, and strainer.

Engine Size	Outlet	Tank Cap.	Solids Handling Capacity	GPM of Water @ 10 ft. of Head	GPM of Water @ 30 ft. of Head	GPM of Water @ 60 ft. of Head	Max. Head	Kit Includes Pump No.	CAM AND GROOVE HOSE CONNECTION 1 Discharge Hose Item No.	CAM AND GROOVE HOSE CONNECTION 2 Discharge Hoses Item No.	NPSM HOSE CONNECTION 1 Discharge Hose Item No.	NPSM HOSE CONNECTION 2 Discharge Hoses Item No.
163cc	2" Cam and Groove	0.95 gal.	13⁄16"	165	148	90	88.0 ft.	11G237	7AJ17	7AJ20	—	—
	2" NPSM	0.95 gal.	13⁄16"	165	148	90	88.0 ft.	11G237	—	—	7AJ11	7AJ14
242cc	3" Cam and Groove	1.60 gal.	1⅛"	320	280	170	90.0 ft.	11G238	7AJ18	—	—	—
	3" NPSM	1.60 gal.	1⅛"	320	280	170	90.0 ft.	11G238	—	—	7AJ12	—
	3" NPSM	1.40 gal.	1⅛"	320	280	170	90.0 ft.	11G238	—	—	—	7AJ15
	3" NPT	1.40 gal.	1¼"	335	306	224	89.0 ft.	11G238	—	7AJ21	—	—
337cc	4" Cam and Groove	1.72 gal.	1⅛"	430	360	150	80.0 ft.	11G239	7AJ19	7AJ22	—	—
	4" NPSM	1.73 gal	1⅛"	430	360	150	80.0 ft.	11G239	—	—	7AJ13	—
	4" NPSM	1.72 gal.	1⅛"	430	360	150	80.0 ft.	11G239	—	—	—	7AJ16


No. 6DLY8


No. 6DLY6


No. 6DLY4

HONDA PUMPS

Engine-Driven Pumps

Powerful 4-stroke, air-cooled, overhead valve (OHV) engine runs on regular gasoline—no need to mix with oil. Easy to prime and start. Pumps are suitable for a variety of water transfer applications. Nos. 6DLY4 to 6DLY6 are designed for jobsites and applications where high-volume trash water capacity is needed.

Engine Brand	Engine Size	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal	Solids Handling Cap.	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max Suction Lift	Item No.
General Purpose															
Honda	118cc	2" NPT	0.53 gal.	AL	CI	Open	Silicon Carbide	—	141	116	67	8	105.0 ft.	26 ft.	6DLY8
	163cc	3" NPT	0.82 gal.	CI	CI	Open	Silicon Carbide	—	253	197	90	—	85.0 ft.	26 ft.	6DLY9
	49cc	1½" NPT	0.20 gal.	AL	AL	—	Carbon, Ceramic	—	65	26	26	26	121.0 ft.	26 ft.	45KM64
Trash															
Honda	163cc	2" NPT	0.82 gal.	CI	CI	Trash	Silicon Carbide	13⁄16"	174	149	98	25	85.0 ft.	26 ft.	6DLY4
	270cc	3" NPT	1.40 gal.	CI	CI	Trash	Silicon Carbide	1 1⁄16"	310	267	158	—	82.0 ft.	26 ft.	6DLY5
	389cc	4" NPT	1.60 gal.	CI	CI	Trash	Silicon Carbide	1 1⁄16"	413	322	164	—	82.0 ft.	26 ft.	6DLY6

** AL = aluminum, CI = cast iron.*

GA GRAINGER APPROVED

Dayton

Suction Strainers and Wheel Kit

Suction Strainers—Prevent large particles of sediment, sewage, mud, or solids from entering suction port of drainage pumps. No. 1P931 has openings to fit trash and diaphragm pumps.

- 16-ga. steel with "zinc with clear" plating

Wheel Kit—Highly portable wheel kit has double ball bearings on airless tires that can't be punctured. Wide-angle handlebars are made from large-dia. metal tubing. Adjustable sliding axle system.

Note: Pump sold separately.


No. 5RWL9


No. 1P812


No. 5RWN2

Inlet	Opening	Dia.	Brand	Item No.
Top Round Perforations, Steel				
1½" NPSM	⅜"	9½"	GA	5RWL9
2" NPSM	⅜"	9½"	GA	5RWN0
3" NPSM	⅜"	12"	GA	5RWN1
Side Square Perforations, Steel				
3" FNPT	1½ x 1½"	6"	Dayton	1P931
4" FNPT	1½ x 1½"	7"	Dayton	2EHE8
Side Round Perforations, Steel				
1" NPSM	3⁄16"	1⅝"	GA	5RWJ8
1½" FNPT	⅜"	5"	Dayton	1P689
1½" NPSM	⅜"	2¼"	GA	5RWK0
2" NPT	⅜"	6"	Dayton	1P690
2" NPSM	⅜"	2¾"	GA	5RWK2
2½" NPSM	⅜"	3⅜"	GA	5RWK4
3" FNPT	⅜"	7"	Dayton	1P812
3" NPSM	⅜"	4"	GA	5RWK6
4" NPSM	⅜"	7"	GA	5RWK7

Inlet	Opening	Dia.	Brand	Item No.
Side Round Perforations, Stainless Steel				
2" NPSM	⅜"	6"	GA	5RWN9
3" NPSM	⅜"	7"	GA	5RWP0
Bottom Round Perforations, Steel				
¾" NPSM	3⁄16"	4"	GA	5RWN2
1" NPSM	3⁄16"	4"	GA	5RWN4
1½" NPSM	⅜"	9½"	GA	5RWN5
2" NPSM	⅜"	9½"	GA	5RWN6

Description	Fits	Brand	Item No.
Wheel Kit			
12" Solid Rubber Wheels	1½" General Purpose Engine Driven Pumps to 4" Engine Driven Trash Pumps	GA	6CGH7


No. 6CGH7

Portable Engine-Driven Pumps

Dayton | BANJO | TSURUMI PUMP | GA GRAINGER APPROVED

GENERAL PURPOSE

Self-priming engines run cooler and cleaner for greater fuel efficiency. Provide clean water transfer and handle solids up to ½" dia.

AGRICULTURAL

Self-prime 12 to 15 ft.

Polypropylene—With stainless steel components, replaceable volutes, and O-ring casing seals.

Cast-Iron—With 2 cast-iron nipples, gasket casing seals, steel bases, and T-handles. Mechanical seals have ceramic seats. Clog-resistant impeller.

HIGH-PRESSURE

Dayton®—With O-ring casing seals, clog-resistant single-stage impeller, cast-iron volute/diffusers, and 2 cast-iron pipe nipples. Liquid temp. range: 40° to 180°F.

DEWATERING

Compact, heavy-duty models feature a rolled steel frame that helps protect the pump and engine, and eases handling and transport.

CENTRIFUGAL PUMP HEADS

Self-priming pumps have a temp. range from 32° to 150°F.

Pump Heads have ¾" shaft. No. 21C981 is complete and ready for attachment to gasoline engine; requires straight keyed shaft. No. 21C982 has a ¾" flexible coupling. No. 21C983 has a ¾" straight shaft coupling.



No. 6ANP1



No. 21C980

Engine Brand	Engine/ Motor Type	Engine Size	Inlet	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Brand	Item No.
General Purpose																	
Honda GX25 OHV	Gas	25cc	1" NPT	1" NPT	0.58 qt.	AL	AL	Semi-Open	Ceramic, Buna N	29	25	19	9	106.0 ft.	26 ft.	Dayton	**11G226**
Honda GX120 OHV	Gas	118cc	2" NPT	2" NPT	2.11 qt.	AL	CI	Semi-Open	Ceramic, Buna N	163	137	79	—	98.0 ft.	26 ft.	Dayton	**11G228**
Honda GX160 OHV	Gas	163cc	3" NPT	3" NPT	3.28 qt.	AL	CI	Semi-Open	Ceramic, Buna N	265	231	164	—	85.0 ft.	26 ft.	Dayton	**11G229**
Honda GX240 OHV	Gas	242cc	4" NPT	4" NPT	5.6 qt.	AL	CI	Semi-Open	Ceramic, Buna N	363	318	216	29	102.0 ft.	26 ft.	Dayton	**11G230**
Agricultural																	
Briggs & Stratton	Gas	127cc	2" FNPT	2" NPT	0.75 gal.	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft.	12 ft.	Banjo	**6ANP1**
Briggs & Stratton	Gas	127cc	2" FNPT	2" NPT	0.75 gal.	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft.	12 ft.	Banjo	**6ANP4**
Honda	Gas	160cc	2" FNPT	2" NPT	0.82 gal.	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft.	12 ft.	Banjo	**6ANP2**
Honda	Gas	160cc	2" FNPT	2" NPT	0.82 gal.	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft.	12 ft.	Banjo	**6ANP5**
Briggs & Stratton	Gas	208cc	2" FNPT	2" NPT	1.00 gal.	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft.	12 ft.	Banjo	**6ANP3**
Briggs & Stratton	Gas	208cc	2" FNPT	2" NPT	1.00 gal.	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft.	12 ft.	Banjo	**6ANP6**
High Pressure																	
Honda GX120 OHV	Gas	163cc	2" NPT	1½" NPT	3.28 qt.	AL	CI	Semi-Open	Ceramic, Buna N	104	99	89	74	164.0 ft.	26 ft.	Dayton	**11G231**
Honda GX160 OHV	Gas	163cc	2" NPT	2" NPT	3.28 qt.	AL	CI	Semi-Open	Ceramic, Buna N	113	104	91	74	187.0 ft.	26 ft.	Dayton	**11G232**
Dewatering																	
Honda	Gas	119cc	2" MNPT	2" NPT	0.66 gal.	AL, CI	CI	Semi Open	Silicon Carbide	125	120	87	25	115.0 ft.	26 ft.	Tsurumi	**20LR08**
Honda	Gas	242cc	4" MNPT	4" NPT	1.59 gal.	AL, CI	CI	Semi Open	Silicon Carbide	432	342	175	45	95.0 ft.	26 ft.	Tsurumi	**20LR10**

Engine/ Motor Type	Inlet	Outlet	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	GPM of Water @ Total ft. of Head 10	30	Max. Head	Max. Suction Lift	Brand	Item No.
Centrifugal Pump Head												
Gas	2" NPT	2" NPT	PP	PP	Open	EPDM, CRB/CMC	200	175	50.0 ft.	15 ft.	Banjo	**21C980**
Gas	2" NPT	2" NPT	CI	CI	Open	EPDM, CRB/CMC	150	130	50.0 ft.	15 ft.	Banjo	**21C981**
Electric	2" NPT	2" NPT	PP	PP	Open	EPDM, CRB/CMC	200	175	50.0 ft.	15 ft.	Banjo	**21C982**
Electric	2" NPT	2" NPT	CI	CI	Open	EPDM, CRB/CMC	150	130	50.0 ft.	15 ft.	Banjo	**21C983**

**** AL = aluminum, CI = cast-iron, CRB/CMC = carbon/ceramic, EPDM = ethylene propylene diene monomer rubber, PP = polypropylene.***

Type	For Use With	Includes	Brand	Item No.
Seal Assembly				
EPDM	1P985, 1P986, 5ZT34, 3P957, 4TA87	O-Rings, Seat, and Cartridge	Dayton	**1R320**
Viton	3P703, 5ZT24, 5ZT26, 5ZT35, 5ZT36	Seal and Seat	Dayton	**2UV39**
Seal Kit				
Buna	11G230 and 11G236	1 Mechanical Seal, 3 Adjusting Washer, 2 Plug Sets, 1 Check Valve, 3 O-rings/Gaskets	GA	**24D043**
	11G231		GA	**24D044**
	11G232		GA	**24D045**
	11G233		GA	**24D046**

Dayton | TSURUMI PUMP | GA GRAINGER APPROVED

Portable Engine-Driven Solids-Handling Pumps

Provide fast, efficient liquid transfer and dewatering. Can be used in remote locations, above or below water level.

Trash—Feature clog-resistant impellers and can easily handle water containing stones, sticks, and other solids, up to 25% by volume (including sewage and wastewater). Nos. 3P653 and 3P654 include 2 pipe nipples and a suction strainer.

Semi-Trash—Models feature clog-resistant impellers and are designed for dirtier water applications. Durable impellers are abrasive-resistant for long life and reduced maintenance. No. 3P582 includes 2 pipe nipples.

Dewatering—Designed with a silicon carbide mechanical seal for long life. Pump and engine are mounted to a cage frame on rubber vibration cushions to help buffer stress and wear.



No. 11G238



No. 11G235

Engine Brand	Engine/ Motor Type	Engine Size	Inlet	Outlet	Tank Capacity	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	Solids Handling Capacity	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Brand	Item No.
Trash																		
Honda GX160 OHV	Gas	163cc	2" NPT	2" NPT	3.28 qt.	AL	High Chrome	Semi-Open	SiC/Buna N	1"	182	164	125	37	98.0 ft.	26 ft.	Dayton	**11G237**
Honda GX240 OHV	Gas	242cc	3" NPT	3" NPT	5.6 qt.	AL	High Chrome	Semi-Open	SiC/Buna N	1¼"	335	306	224	—	89.0 ft.	26 ft.	Dayton	**11G238**
Vanguard	Gas	479cc	4" MNPT	4" NPT	2.25 gal.	AL	CI	Trash	SiC, Viton	2"	530	520	325	120	102.0 ft.	20 ft.	Dayton	**3P653**
Honda GX390 OHV	Gas	389cc	4" MNPT	4" NPT	1.60 gal.	AL	CI	Trash	SiC, Viton	2"	530	520	325	120	102.0 ft.	20 ft.	Dayton	**3P654**
Honda GX340 OHV	Gas	337cc	4" NPT	4" NPT	6.45 qt.	AL	High Chrome	Semi-Open	SiC/Buna N	2"	400	339	147	—	82.0 ft.	26 ft.	Dayton	**11G239**
Semi-Trash																		
Honda GX120 OHV	Gas	118cc	2" NPT	2" NPT	2.11 qt.	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	148	124	82	25	95.0 ft.	26 ft.	Dayton	**11G234**
B&S Intek	Gas	305cc	3" FNPT	3" NPT	1.00 gal.	AL	CI	Semi-Open	Buna N, SS	¾"	300	260	191	66	110.0 ft.	20 ft.	Dayton	**3P582**
Honda GX160 OHV	Gas	163cc	3" NPT	3" NPT	3.28 qt.	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	226	194	115	—	85.0 ft.	26 ft.	Dayton	**11G235**
Honda GX240 OHV	Gas	242cc	4" NPT	4" NPT	5.6 qt.	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	363	318	216	15	92.0 ft.	26 ft.	Dayton	**11G236**
Dewatering																		
Honda	Gas	163cc	2" MNPT	2" NPT	0.95 gal.	AL, CI	Chrome Iron	Semi Open	SiC	1"	180	150	75	—	90.0 ft.	26 ft.	Tsurumi	**20LR11**
Honda	Gas	242cc	3" MNPT	3" NPT	1.60 gal.	AL, CI	Chrome Iron	Semi Open	SiC	1½"	350	290	180	20	90.0 ft.	26 ft.	Tsurumi	**20LR12**
Honda	Gas	337cc	4" MNPT	4" NPT	1.70 gal.	AL, CI	Chrome Iron	Semi Open	SiC	1½"	520	400	225	20	95.0 ft.	26 ft.	Tsurumi	**20LR13**

Type	For Use With	Includes	Brand	Item No.
Seal Assembly				
Viton/Silicone Carbide	3P609, 3P653, 3P654, 3P955	Seal and Seat	Dayton	**2UV43**
Seal Kit				
Buna	11G234 and 13T386	1 Mechanical Seal, 3 Adjusting Washer, 2 Plug Sets, 1 Check Valve, 3 O-rings/Gaskets	GA	**24D047**
	11G235, 13T387, 24D039		GA	**24D049**
	11G237		GA	**24D050**
	11G238	1 Mechanical Seal, 3 Adjusting Washer, 2 Plug Sets, 1 Check Valve, 5 O-rings/Gaskets	GA	**24D051**
	11G239		GA	**24D052**

**** AL = aluminum, CI = cast iron, SG = spheroidal graphite, SiC = silicon carbide, SS = stainless steel.***

For Cam and Groove Fittings, see page 2765



PVC Assembly, Cam and Groove C x Cam and Groove E No. 52EE34



PVC Assembly, FNPSM x MNPSM No. 45DT95



PVC Assembly, FNPSM x MNPSM No. 45DU11



SBR/Natural Rubber Assembly, Cam and Groove C x Cam and Groove E No. 1ZMT9



EPDM Bulk No. 3JT48



PVC Bulk No. 45DT75



PVC Bulk No. 45DT80



SBR/Natural Rubber Bulk No. 1ZMU4

Water Discharge Hoses

GRAINGER APPROVED

Also known as water pump discharge hoses, they can be connected to a pump to move water away from a location or source. Water discharge hoses typically lay flat when not in use and are suitable for use in construction, mining, agricultural, and industrial water-removal applications. Hoses with fittings include a gasket.

HOSE ASSEMBLIES

Hose assemblies have fittings installed on both ends for connecting the hose to compatible equipment. Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.

PVC Hose Assemblies with Synthetic Fabric Reinforcement—For use in low-pressure open-end water discharge service and have fittings installed on both ends for connecting the hose to compatible equipment.

PVC/Nitrile Hose Assemblies with Synthetic Yarn Reinforcement—They are fire-resistant and are suitable for pumping and water-removal in construction, mining, and agricultural applications. The hoses' tube is made from PVC and nitrile and has limited oil and chemical applications.

SBR/Natural Rubber Hose Assemblies with Polyester Jacket Reinforcement—Suitable for use in open-end water discharge with fittings installed on both ends for connecting the hose to compatible equipment.

BULK HOSES

Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.



Hose I.D.	Fitting Size	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Hose Length	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Item No.	Fitting: FNPSM x MNPSM, Aluminum x Aluminum Hose Length	Fitting: FNPSM x MNPSM, Aluminum x Aluminum Item No.
Hose Assemblies								
PVC with Synthetic Fabric Reinforcement, GA								
1½"	1½" x 1½"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU14**	50 ft	**45DU15**
1½"	1½" x 1½"	5° to 150°F	80 psi	Blue	25 ft	**45DU21**	25 ft	**45DT90**
1½"	1½" x 1½"	5° to 150°F	80 psi	Blue	50 ft	**45DT91**	50 ft	**45DT92**
1½"	1½" x 1½"	5° to 150°F	150 psi	Red	25 ft	**45DU20**	25 ft	**45DU03**
1½"	1½" x 1½"	5° to 150°F	150 psi	Red	50 ft	**45DU04**	50 ft	**45DU05**
2"	2" x 2"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU16**	50 ft	**45DU17**
2"	2" x 2"	5° to 150°F	80 psi	Blue	25 ft	**45DU23**	25 ft	**45DT93**
2"	2" x 2"	5° to 150°F	80 psi	Blue	50 ft	**45DT94**	50 ft	**45DT95**
2"	2" x 2"	5° to 150°F	150 psi	Red	25 ft	**45DU22**	25 ft	**45DU06**
2"	2" x 2"	5° to 150°F	150 psi	Red	50 ft	**45DU07**	50 ft	**45DU08**
3"	3" x 3"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU18**	50 ft	**45DU19**
3"	3" x 3"	5° to 150°F	70 psi	Blue	25 ft	**45DU25**	25 ft	**45DT96**
3"	3" x 3"	5° to 150°F	70 psi	Blue	50 ft	**45DT97**	50 ft	**45DT98**
3"	3" x 3"	5° to 150°F	125 psi	Red	25 ft	**45DU24**	50 ft	**45DU11**
3"	3" x 3"	5° to 150°F	125 psi	Red	50 ft	**45DU10**	—	—
4"	4" x 4"	-4° to 140°F	150 psi	Yellow	50 ft	**52EE34**	50 ft	**52EE35**
4"	4" x 4"	5° to 130°F	70 psi	Blue	—	—	25 ft	**45DT99**
4"	4" x 4"	5° to 150°F	70 psi	Blue	25 ft	**45DU26**	50 ft	**45DU02**
4"	4" x 4"	5° to 150°F	70 psi	Blue	50 ft	**45DU01**	—	—
4"	4" x 4"	5° to 150°F	100 psi	Red	50 ft	**45DU12**	50 ft	**45DU13**
6"	6" x 6"	-4° to 140°F	150 psi	Yellow	50 ft	**52EE36**	50 ft	**52EE37**
6"	6" x 6"	5° to 150°F	50 psi	Blue	50 ft	**52EE30**	50 ft	**52EE31**
6"	6" x 6"	5° to 150°F	82 psi	Red	50 ft	**52EE32**	50 ft	**52EE33**
PVC/Nitrile with Synthetic Yarn Reinforcement, GA								
1½"	1½" x 1½"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU28**	50 ft	**45DU29**
2"	2" x 2"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU31**	50 ft	**45DU32**
3"	3" x 3"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU34**	50 ft	**45DU35**
4"	4" x 4"	-5° to 175°F	200 psi	Yellow	50 ft	**45DU37**	50 ft	**45DU38**
6"	6" x 6"	-5° to 175°F	200 psi	Yellow	50 ft	**52EE39**	50 ft	**52EE40**

Hose I.D.	Fitting Size	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Item No.	Fitting: MNPSM x FNPSM, Aluminum x Brass Item No.
Hose Assemblies							
SBR/Natural Rubber with Polyester Jacket Reinforcement, GA							
1½"	1½" x 1½"	50 ft	-22° to 180°F	125 psi	White	**1ZMT8**	**1ZMT4**
2"	2" x 2"	50 ft	-22° to 180°F	125 psi	White	**1ZMT9**	**1ZMT5**
3"	3" x 3"	50 ft	-22° to 180°F	125 psi	White	**1ZMU1**	**1ZMT6**
4"	4" x 4"	50 ft	-22° to 180°F	125 psi	White	**1ZMU2**	**1ZMT7**

Hose I.D.	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Item No.
Bulk Hoses					
EPDM with EPDM Cover with Spiral-Plied Synthetic Fabric Reinforcement, CONTINENTAL					
1½"	100 ft	—	125 psi	Black	**3JT48**
2"	100 ft	—	125 psi	Black	**3JT49**
PVC/Nitrile with Polyester Fabric Reinforcement, GA					
6"	50 ft	-5° to 175°F	200 psi	Yellow	**52EE38**
PVC with Synthetic Fabric Reinforcement, GA					
1½"	300 ft	5° to 150°F	80 psi	Blue	**45DT75**
1½"	300 ft	5° to 150°F	150 psi	Red	**45DT80**
2½"	300 ft	5° to 150°F	80 psi	Blue	**45DT77**
2½"	300 ft	5° to 150°F	150 psi	Red	**45DT82**
2"	300 ft	5° to 150°F	80 psi	Blue	**45DT76**
2"	300 ft	5° to 150°F	150 psi	Red	**45DT81**
3"	300 ft	5° to 150°F	70 psi	Blue	**45DT78**
3"	300 ft	5° to 150°F	125 psi	Red	**45DT83**
4"	300 ft	5° to 150°F	70 psi	Blue	**45DT79**
4"	300 ft	5° to 150°F	100 psi	Red	**45DT84**
6"	100 ft	5° to 150°F	50 psi	Blue	**52EE46**
SBR/Natural Rubber with Polyester Jacket Reinforcement, GA					
1½"	100 ft	-22° to 180°F	125 psi	White	**1ZMU3**
2"	100 ft	-22° to 180°F	125 psi	White	**1ZMU4**
3"	100 ft	-22° to 180°F	125 psi	White	**1ZMU5**
4"	100 ft	-22° to 180°F	125 psi	White	**1ZMU6**

Water Suction and Discharge Hoses

Continental ContiTech ★ GA GRAINGER APPROVED

For Cam and Groove Fittings, see page 2765

Have a rigid reinforcement that helps the hose keep its shape when not in use and prevents it from collapsing in suction applications. Used to vacuum (suction) or pump (discharge) water from one location to another in construction, mining, agricultural, and industrial applications. Hoses with fittings inlcude a gasket.

HOSE ASSEMBLIES

These hose assemblies have fittings installed on both ends for connecting the hose to compatible equipment. Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.

EPDM Hose Assemblies with EPDM Cover with Spiral-Plied Synthetic Fabric and Wire Helix Reinforcement—Used with engine-driven dewatering and trash pumps for transferring water from tanks, trucks, and pits or other places where water may accumulate. Suitable for medium- to heavy-duty construction, mining, agricultural, and industrial applications.

EPDM Hose Assemblies with Spiral-Plied Synthetic Fabric Reinforcement—The EPDM (ethylene propylene diene monomer) material provides excellent resistance to ozone and abrasion as well as good resistance to heat and chemicals. Suitable for use in pumping water in quarries, mines, construction sites, and other abrasive environments.

Polyethylene Hose Assemblies with Polyethylene Double Helix Reinforcement—Assemblies are for use in vacuuming or pumping water in waste-evacuation, septic-pumping, and sewer-cleaning applications.

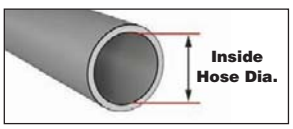
PVC Hose Assemblies with Rigid PVC Helix Reinforcement—Suitable for use in septic-tank cleaning operations and for general industrial and agricultural applications that require a hose with mild chemical resistance.

PVC Hose Assemblies with Synthetic Braid and PVC Helix Reinforcement—Hoses feature a smooth interior that helps keep material from building up in the hose. The PVC material also provides good resistance to chemicals.

Thermoplastic Rubber Hose Assemblies with Polyethylene Helix Reinforcement—Thermoplastic rubber hoses stay flexible in cold weather and resist most chemicals used in the agricultural and sanitation industries. For use in vacuuming or pumping water in waste management, construction, agricultural, marine, and manufacturing applications.

BULK HOSES

Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.



Hose I.D.	Fitting Size	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Brand	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Item No.	Fitting: Cam and Groove C x MNPT, Aluminum x Aluminum Item No.	Fitting: Cam and Groove C x MNPT, Aluminum x Carbon Steel Item No.	Fitting: FNPSM x MNPSM, Aluminum x Aluminum Item No.	Fitting: MNPSM x FNPSM, Aluminum x Aluminum Item No.
Hose Assemblies											
EPDM with EPDM Cover with Spiral-Plied Synthetic Fabric & Wire Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-25° to 200°F	150 psi	Black	Continental	4YLN6	—	1ZNA5	3P572	—
2"	2" x 2"	20 ft	-25° to 200°F	150 psi	Black	Continental	4YLN7	—	1ZNA6	3P573	—
3"	3" x 3"	10 ft	-25° to 200°F	150 psi	Black	Continental	4YLN8	—	1ZNA7	3P583	—
3"	3" x 3"	20 ft	-25° to 200°F	150 psi	Black	Continental	4YLN9	—	1ZNA8	3P634	—
4"	4" x 4"	20 ft	-25° to 200°F	150 psi	Black	Continental	4YLP1	—	1ZNA9	3P657	—
EPDM with Spiral-Plied Synthetic Fabric Reinforcement											
1½"	1½" x 1½"	25 ft	-25° to 200°F	125 psi	Black	Continental	1ZMW1	—	—	3P574	—
2"	2" x 2"	25 ft	-25° to 200°F	125 psi	Black	Continental	1ZMW2	—	—	3P575	—
3"	3" x 3"	25 ft	-25° to 200°F	125 psi	Black	Continental	1ZMW3	—	—	3P584	—
4"	4" x 4"	25 ft	-25° to 200°F	125 psi	Black	Continental	1ZMW4	—	—	2P086	—
Polyethylene with Polyethylene Double Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-40° to 140°F	26 psi	Black, Yellow	GA	45DV20	—	1ZNB4	1ZNB1	—
2"	2" x 2"	20 ft	-40° to 140°F	17 psi	Black, Yellow	GA	45DV21	—	1ZNB5	1ZNB2	—
3"	3" x 3"	20 ft	-40° to 140°F	12 psi	Black, Yellow	GA	45DV22	—	1ZNB6	1ZNB3	—
PVC with Rigid PVC Helix Reinforcement											
1½"	1½" x 1½"	20 ft	0° to 158°F	89 psi	Green	Continental	4YLN2	—	1ZMW5	2P566	—
2"	2" x 2"	20 ft	0° to 158°F	79 psi	Green	Continental	4YLN3	—	1ZMW6	2P567	—
2"	2" x 2"	25 ft	0° to 158°F	79 psi	Green	Continental	55CG43	55CG44	—	—	55CG45
2"	2" x 2"	50 ft	0° to 158°F	79 psi	Green	Continental	55CG46	55CG47	—	—	55CG48
3"	3" x 3"	20 ft	0° to 158°F	65 psi	Green	Continental	4YLN4	—	1ZMW7	2P568	—
3"	3" x 3"	25 ft	0° to 158°F	65 psi	Green	Continental	55CG55	55CG56	—	—	55CG57
3"	3" x 3"	50 ft	0° to 158°F	65 psi	Green	Continental	55CG58	55CG59	—	—	55CG60
4"	4" x 4"	20 ft	0° to 158°F	55 psi	Green	Continental	4YLN5	—	1ZMW8	2P569	—
4"	4" x 4"	25 ft	0° to 158°F	55 psi	Green	Continental	55CG67	55CG68	—	—	55CG69
4"	4" x 4"	50 ft	0° to 158°F	55 psi	Green	Continental	55CG70	55CG71	—	—	55CG72
PVC with Synthetic Braid & PVC Helix Reinforcement											
1"	1" x 1"	20 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU39	—	45DU40	—	—
1¼"	1¼" x 1¼"	20 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU42	—	45DU43	45DU44	—
1½"	1½" x 1½"	20 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU45	—	45DU46	45DU47	—
2"	2" x 2"	20 ft	-10° to 130°F	70 psi	Clear, White	GA	45DU48	—	45DU49	—	—
2"	2" x 2"	20 ft	-40° to 150°F	90 psi	Blue, Clear	Kuriyama	45DU71	—	—	45DU72	—
3"	3" x 3"	20 ft	-10° to 130°F	55 psi	Clear, White	GA	45DU51	—	45DU52	45DU53	—
3"	3" x 3"	20 ft	-40° to 150°F	65 psi	Blue, Clear	Kuriyama	45DU73	—	—	45DU74	—
4"	4" x 4"	20 ft	-10° to 130°F	50 psi	Clear, White	GA	45DU54	—	45DU55	45DU56	—
4"	4" x 4"	20 ft	-40° to 150°F	55 psi	Blue, Clear	Kuriyama	45DU75	—	—	45DU76	—
6"	6" x 6"	20 ft	-13° to 140°F	70 psi	Clear, Orange	Continental	52EE45	—	—	—	—
Thermoplastic Rubber with Polyethylene Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-40° to 180°F	50 psi	Black, Green	Continental	—	—	—	1ZMY3	—
1½"	1½" x 1½"	25 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZMZ8	—	—	1ZMY7	—
1½"	1½" x 1½"	50 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZNA2	—	—	—	—
2"	2" x 2"	20 ft	-40° to 180°F	50 psi	Black, Green	Continental	—	—	1ZMZ2	1ZMY4	—
2"	2" x 2"	25 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZMZ9	—	1ZMZ6	1ZMY8	—
2"	2" x 2"	50 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZNA3	—	—	—	—
3"	3" x 3"	20 ft	-40° to 180°F	45 psi	Black, Green	Continental	—	—	1ZMZ3	1ZMY5	—
3"	3" x 3"	25 ft	-40° to 180°F	45 psi	Black, Green	Continental	1ZNA1	—	1ZMZ7	1ZMY9	—
3"	3" x 3"	50 ft	-40° to 180°F	45 psi	Black, Green	Continental	1ZNA4	—	—	—	—
4"	4" x 4"	20 ft	-40° to 180°F	40 psi	Black, Green	Continental	—	—	1ZMZ4	1ZMY6	—



EPDM with EPDM Cover with Spiral-Plied Synthetic Fabric & Wire Helix Reinforcement, Cam and Groove C x MNPT
No. 1ZNA5



EPDM with Spiral-Plied Synthetic Fabric Reinforcement, FNPSM x MNPSM
No. 3P574



Polyethylene with Polyethylene Double Helix Reinforcement, Cam and Groove C x MNPT
No. 1ZNB4



PVC with Rigid PVC Helix, Cam and Groove C x Cam and Groove E
No. 4YLN2



PVC with Synthetic Braid & PVC Helix Reinforcement, Cam and Groove C x Cam and Groove E
No. 45DU39



Thermoplastic Rubber, FNPSM x MNPSM
No. 1ZMY4



Thermoplastic Rubber, Cam and Groove C x Cam and Groove E
No. 1ZMZ9

CONTINUED

CONTINUED

Water Suction and Discharge Hoses

Continental ContiTech ★ GA GRAINGER APPROVED



EPDM with Spiral-Plied Synthetic Fabric Reinforcement
No. 3JT44



PVC with Rigid PVC Helix
No. 1ZLW1



Polyethylene with Polyethylene Double Helix Reinforcement
No. 1ZNB7



Thermoplastic Rubber
No. 1ZLR1

Hose I.D.	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Brand	Item No.
Bulk Hoses						
EPDM with Spiral-Plied Synthetic Fabric Reinforcement						
1¼"	100 ft	-25° to 200°F	125 psi	Black	Continental	1ZLJ1
1½"	100 ft	—	125 psi	Black	Continental	3JT44
2"	100 ft	—	125 psi	Black	Continental	3JT45
2½"	100 ft	-25° to 200°F	125 psi	Black	Continental	1ZLJ2
3"	50 ft	-25° to 200°F	150 psi	Black	Continental	55AX67
3"	100 ft	—	100 psi	Black	Continental	3JT46
3"	100 ft	—	125 psi	Black	Continental	3JT50
Polyethylene with Polyethylene Double Helix Reinforcement						
1½"	20 ft	-40° to 140°F	26 psi	Black, Yellow	GA	1ZNB7
2"	20 ft	-40° to 140°F	17 psi	Black, Yellow	GA	1ZNB8
3"	20 ft	-40° to 140°F	12 psi	Black, Yellow	GA	1ZNB9
PVC with PVC Helix Reinforcement						
¾"	100 ft	-40° to 150°F	115 psi	Blue, Clear	Kuriyama	45DU63
1"	100 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU57
1"	100 ft	0° to 158°F	106 psi	Clear, White	Continental	41ND36
1¼"	100 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU58
1½"	100 ft	-10° to 130°F	90 psi	Clear, White	GA	45DU59
2"	100 ft	-40° to 150°F	90 psi	Blue, Clear	Kuriyama	45DU66
2"	100 ft	-10° to 130°F	70 psi	Clear, White	GA	45DU60
3"	100 ft	-10° to 130°F	55 psi	Clear, White	GA	45DU61
4"	100 ft	-10° to 130°F	50 psi	Clear, White	GA	45DU62
PVC with Rigid PVC Helix Reinforcement						
1½"	100 ft	15° to 158°F	89 psi	Green	Continental	1ZLW1
2"	100 ft	15° to 158°F	79 psi	Green	Continental	1ZLW2
3"	100 ft	15° to 158°F	65 psi	Green	Continental	1ZLW3
Thermoplastic Rubber with Polyethylene Helix Reinforcement						
1¼"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZLP9
1½"	50 ft	-40° to 180°F	50 psi	Green	Continental	55AX29
1½"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZLR1
2"	50 ft	-40° to 180°F	50 psi	Green	Continental	55AX32
2"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	1ZLR2
3"	50 ft	-40° to 180°F	45 psi	Green	Continental	55AX35
3"	100 ft	-40° to 180°F	45 psi	Black, Green	Continental	1ZLR3
4"	50 ft	-40° to 180°F	40 psi	Green	Continental	55AX38
4"	100 ft	-40° to 180°F	40 psi	Black, Green	Continental	1ZLR4



No. 1ZNC2



No. 6YZE7

Suction/Discharge Hose Kits

★ GA GRAINGER APPROVED

Include 20-ft. green PVC suction hose, suction hose strainer, 50-ft. blue PVC lay-flat discharge hose, and gaskets.

Pump Hose Kits have a brass swivel.

Quick-Coupling Pump Hose Kits have aluminum cam-and-groove quick couplings for pump connections.

Hose Inside Dia. (in.)/ Connect. Size (in.)	PUMP HOSE KITS Item No.	QUICK COUPLING PUMP HOSE KITS Item No.
1½	1ZNC1	6YZE7
2	1ZNC2	6YZE8
3	1ZNC3	6YZE9
4	1ZNC4	6YZF0

★ GA GRAINGER APPROVED

BANJO CORPORATION



Barbed Combination Nipple
No. 3LZ87



Rigid Barbed Hose Fitting
No. 3DTT9

Multipurpose Barbed Hose Fittings

- Hose barb x MNPT connection

Designed for low-pressure suction and discharge service in transporting air, water, and chemicals. Threaded end is same size as hose. **Barbed combination nipples** have raised ridges (or barbs) on one end that grip the inside of hoses to hold them in place. **Rigid barbed hose fittings** connect hoses to pipe in multipurpose hose assemblies. **316 stainless steel** fittings have multiple barbs that provide a positive hose clamp seal. For fluid handling applications, including fertilizers, herbicides, acids, some solvents, liquid waste, saltwater, and cooling water. **Steel fittings** are plated to resist corrosion. **Polypropylene fittings** have chemical-resistant glass-reinforced hose barb fittings have. Can be used in fertilizer, herbicide, and insecticide handling applications, as well as for industrial applications, such as waste, saltwater, and cooling water handling.

For Hose I.D.	Fitting Size	Hex Head Size	Nipple Grip Type	Item No.
Barbed Combination Nipples				
316 Stainless Steel, Straight, GA				
½"	½ in x ½ in	½ in	Knurled	3LZ83
¾"	¾ in x ¾ in	¾ in	Knurled	3LZ91
1"	1 in x 1 in	1 in	Knurled	3LZ84
1 ¼"	1¼ in x 1¼ in	1 ¼ in	Knurled	3LZ85
1 ½"	1½ in x 1½ in	1 ½ in	Knurled	3LZ86
2"	2 in x 2 in	2 in	Knurled	3LZ87
3"	3 in x 3 in	3 in	Knurled	3LZ89
Steel, Straight, GA				
½"	½ in x ½ in	½ in	Knurled	3LZ92
¾"	¾ in x ¾ in	¾ in	Knurled	3MC01
1"	1 in x 1 in	1 in	Knurled	3LZ93
1 ¼"	1¼ in x 1¼ in	1 ¼ in	Knurled	3LZ94
1 ½"	1½ in x 1½ in	1 ½ in	Knurled	3LZ95
2"	2 in x 2 in	2 in	Knurled	3LZ96
2 ½"	2½ in x 2½ in	2 ½ in	Knurled	3LZ97
3"	3 in x 3 in	3 in	Knurled	3LZ98
4"	4 in x 4 in	4 in	Knurled	3LZ99
Rigid Barbed Hose Fittings				
316 Stainless Steel, Straight, GA				
¼"	¼ in x ¼ in	9/16 in	Hex	3DTN3
⅜"	⅜ in x ¼ in	19/32 in	Hex	3DTL6
⅜"	⅜ in x ⅜ in	¾ in	Hex	3DTN9
½"	½ in x ¼ in	21/32 in	Hex	3DTL8
½"	½ in x ⅜ in	¾ in	Hex	3DTN7
½"	½ in x ½ in	27/32 in	Hex	3DTR1
½"	½ in x ½ in	1 1/16 in	Hex	3DTR5
⅝"	⅝ in x ½ in	27/32 in	Hex	3DTP4
¾"	¾ in x ½ in	27/32 in	Hex	3DTP6
¾"	¾ in x ¾ in	1 1/16 in	Hex	3DTT3
¾"	¾ in x ¾ in	1 ½ in	Hex	3DTT6
1"	1 in x ¾ in	1 ⅛ in	Hex	3DTR8
1"	1 in x 1 in	1 7/16 in	Hex	3DTU2
1 ¼"	1¼ in x 1¼ in	1 ¾ in	Hex	3DTV1
1 ½"	1½ in x 1½ in	2 1/16 in	Hex	3DTV8
2"	2 in x 2 in	2 ½ in	Hex	3DTW4
3"	3 in x 3 in	3 ½ in	Hex	3DTW7

For Hose I.D.	Fitting Size	Hex Head Size	Nipple Grip Type	Item No.
Polypropylene, 90° Elbow, BANJO				
¼"	¼ in x ¼ in	¾ in	Hex	3DTL9
⅜"	⅜ in x ⅜ in	¾ in	Hex	3DTN8
⅜"	⅜ in x ⅜ in	15/16 in	Hex	3DTP8
½"	½ in x ½ in	15/16 in	Hex	3DTP7
½"	½ in x ¾ in	1 ⅛ in	Hex	3DTT1
¾"	¾ in x ½ in	15/16 in	Hex	3DTP9
¾"	¾ in x ¾ in	1 ⅛ in	Hex	3DTR9
¾"	¾ in x ¾ in	1 ⅜ in	Hex	3DTT9
1"	1 in x ¾ in	1 ⅛ in	Hex	3DTT2
1"	1 in x 1 in	1 ⅜ in	Hex	3DTT8
1 ½"	1½ in x 1½ in	2 in	Hex	3DTV6
1 ½"	1½ in x 1½ in	2 ⅜ in	Hex	3DTW3
2"	2 in x 2 in	2 ½ in	Hex	3DTW2
3"	3 in x 3 in	3 ⅛ in	Hex	3DTW6
Polypropylene, Straight, BANJO				
¼"	¼ in x ¼ in	¾ in	Hex	3DTL4
¼"	½ in x ¼ in	15/16 in	Hex	3DTP2
⅜"	⅜ in x ¼ in	¾ in	Hex	3DTL5
⅜"	⅜ in x ⅜ in	¾ in	Hex	3DTN4
⅜"	½ in x ⅜ in	15/16 in	Hex	3DTP3
⅜"	¾ in x ⅜ in	1 ⅛ in	Hex	3DTR3
½"	½ in x ⅜ in	¾ in	Hex	3DTN6
½"	½ in x ½ in	15/16 in	Hex	3DTP1
½"	¾ in x ½ in	1 ⅛ in	Hex	3DTR4
⅝"	⅝ in x ⅝ in	1 ⅛ in	Hex	3DTR6
¾"	¾ in x ½ in	15/16 in	Hex	3DTP5
¾"	¾ in x ¾ in	1 ⅛ in	Hex	3DTR2
¾"	1 in x ¾ in	1 ⅜ in	Hex	3DTT5
1"	1 in x ¾ in	1 ⅛ in	Hex	3DTR7
1"	1 in x 1 in	1 ⅜ in	Hex	3DTT4
1"	1 in x 1½ in	2 in	Hex	3DTV3
1 ¼"	1¼ in x 1¼ in	1 ¾ in	Hex	3DTU3
1 ¼"	1¼ in x 1¼ in	2 in	Hex	3DTV4
1 ½"	1½ in x 1½ in	2 1/16 in	Hex	3DTV2
1 ½"	1½ in x 1½ in	2 ½ in	Hex	3DTW1
2"	2 in x 1½ in	2 1/16 in	Hex	3DTV5
2"	2 in x 2 in	2 ½ in	Hex	3DTV9
3"	3 in x 3 in	3 29/32 in	Hex	3DTW5
4"	4 in x 4 in	5 ⅜ in	Hex	3DTW8

Portable Diaphragm Pumps

Dayton

- Liquid temp. range: 40° to 180°F
- Pump fluids with abrasive solids from ⅜" to 1⅝"
- Self-priming to 25 ft.

Extra-heavy-duty pumps easily handle fluids mixed with sand, silt, mud, sewage, and waste. Integrated tubular handle and wheels offer easy mobility to pump out ponds, trenches, excavations, and septic tanks. Pumps have aluminum casing, thermoplastic rubber diaphragm, and neoprene check valves. Heavy-duty guard covers moving parts. Suction line strainer and 3" NPT suction and discharge pipe nipples included.

Electric Motor—115/230V, 8/14A, 60 Hz plug with 20-ft. power cord. Single-phase TEFC capacitor-start, capacitor-run motor. Equipped with NEMA 56C frame, ball bearings, keyed shaft, and weather-proof On/Off switch mounted on conduit box. For use in clean, dry locations only.

Gas Engine—Meets California emission codes. Features manual start, electronic ignition, and muffler for low-noise operation. For use in well-ventilated areas only.


No. 3P682


No. 2UV48


No. 4TA88


No. 2UV52

Nominal Voltage	Tank Cap.	HP	Max. Head	Pump Mechanism	Discharge	Flow Rate @ Total ft. of Head 10	20	Item No.
Electric Motor								
110 V AC, 220 V AC	—	1½	25.0 ft.	Diaphragm	3" FNPT	58.0 gpm	42.7 gpm	**3P682**
Gas Engine								
—	0.82 gal.	5½	25.0 ft.	Diaphragm	3" FNPT	75.0 gpm	60.0 gpm	**4TA88**

Item	Type	For Use With	Item No.
Replacement Parts			
Diaphragm	Thermoplastic	3P613, 3P681, 3P682, 4TA88	**2UV48**
Flap Valve Assembly	Polyurethane	3P613, 3P681, 3P682, 4TA88	**2UV52**

Hydrostatic Test Pumps

WHEELER REX

Hand-Operated—Lightweight and suitable for testing water lines and pressure testing boiler, solar, small tank, and sprinkler systems. Include shutoff valve and outlet hose. No. 6GDU9 has 2.6-gal. integral tank.

Pneumatic—Pumps have an automatic pressure regulator with inlet bypass and an inline strainer with stainless steel mesh filter and clear bowl. High-pressure ball valve and fittings are built-in.

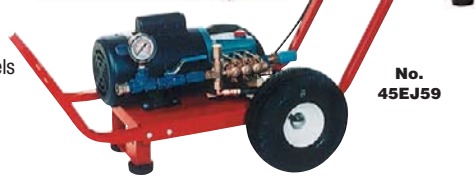
Electric and Gasoline—Ideal for certifying the integrity of newly installed commercial sprinkler systems, pressure vessels, water lines, and sewer lines. Include 10-ft. pressure output hose, except Nos. 45EJ59 to 45EJ72.

Electric models have a built-in pressure regulator. Nos. 6GDV7 and 6GDV9 have a full-perimeter cage.

Gas models have an inlet strainer and a 2-wheeled cart with pneumatic wheels. Models also have an automatic bypass and quick-disconnect fittings for inlet and discharge hoses, except Nos. 45EJ64 to 45EJ72. Nos. 6GDV1 and 6GDV2 can handle a 10% chlorine solution. Include 10-ft. suction hose.


No. 6GDU4


No. 44A746


No. 45EJ59

Max. Pressure (psi)	Inlet	Outlet	Mfr. Model	Item No.
Hand Operated Hydrostatic Test Pump				
300 psi	¾" Female GH	¼" MNPT From 10 Ft. Output Hose	29200	**6GDU4**
870 psi	2.6 gal. Integral Tank	¼" MNPT From 10 Ft. Output Hose	29900	**6GDU9**
1000 psi	¾" Female GH	¼" MNPT From 10 Ft. Output Hose	29201	**6GDU5**

Type	Inlet Hose	Outlet	GPM	Max. Pressure	Mfr. Model	Item No.
Pneumatic Test Pump						
Reciprocating Plunger	¾" GHT¾"	½" NPT	.5	1500	32150	**44A746**
	¾" GHT¾"	½" NPT	0.5	3000	32300	**44A747**
Hydrostatic Test Pump						
Reciprocating Pump	¾" Female GHT	¼" MNPT	1	10,000 psi	32450	**45EJ62**

Type	HP	Inlet	Outlet	Engine Brand	Engine RPM	Phase	Voltage	GPM	Max. Pressure	Mfr. Model	Item No.
Electric											
Triplex Piston, Positive Displacement	1½	⅜" NPT	⅜" NPT	—	3450	1	115	2.2	1000 psi	47100	**45EJ59**
	1½	⅜" NPT	⅜" NPT	—	3450	1	200	1.1	2000 psi	47102	**45EJ60**
Twin Piston, Positive Displacement	½	¾" Female GHT	9⁄16"-18 JCIF Male	—	1725	1	115/230	4	300 psi	39300	**6GDV5**
	1	¾" Female GHT	½" FNPT Swivel	—	1725	1	115/230	3	500 psi	35100	**6GDV7**
	1	¾" Female GHT	½" FNPT Swivel	—	1725	1	115/230	1	1000 psi	33100	**6GDV9**
Gasoline											
Roller Pump, Variable Displacement	5½	¾"	¾"	Honda	600	—	—	5.4	300 psi	463010	**45EJ66**
	6½	¾"	¾"	5.4	600	—	—	5.4	300 psi	46301	**45EJ65**
Triple Diaphragm, Positive Displacement	5½	¾" Female GHT	¾" MNPT	Honda	550	—	—	10	500 psi	465010	**6GDV2**
	6½	¾" Female GHT	¾" MNPT	B&S	550	—	—	10	500 psi	46501	**6GDV1**
Triple Diaphragm Pump, Positive Displacement	5½	1"	¾" NPT	Honda	550	—	—	15	300 psi	466000	**45EJ70**
	8	1½"	¾" NPT	Honda	550	—	—	26	250 psi	468000	**45EJ72**
Triplex Piston, Positive Displacement	8½	½" NPT	⅜" NPT	Honda	—	—	—	3.5	3000 psi	373080	**45EJ64**
Twin Piston Pump, Positive Displacement	5½	¾" NPT	¾" NPT	Honda	600	—	—	10	400 psi	464530	**45EJ68**
	6½	¾" NPT	¾" NPT	B&S	600	—	—	10	400 psi	46453	**45EJ67**

For Use With	Includes	Mfr. Model	Item No.
Rebuild Kit			
6GDU9	(4) O-Rings	29950	**6GDV0**
6GDV1, 6GDV2	(3) Piston Diaphragms, (6) O-Rings	36345	**6GDV3**
6GDV7	(2) Piston Cap Screws, (2) Washers, (4) O-Rings, (2) Rubber Cups, (2) Seal Rings	36361	**6GDV8**
6GDV9	(4) U-Cups, (2) O-Rings, (2) Seal Rings, (2) Back-Up Rings	36389	**6GDW0**
Mfr. No. 29200, 29201	Screen Retainer, Overload Spring, 5⁄16" Stainless Steel Ball, (2) O-Rings, (2) ⅜" Stainless Steel Balls	29250	**6GDU6**

Description	Connec. Size (in.)	Mfr. Model	Item No.
Accessories			
Output Hose, For Use With Mfr. No. 39300, 35100, 33100, 29200, 29201, 29900	¼" MNPT x 9⁄16-18 JICF Female Swivel	3917	**19C695**
Suction Hose, For Use With Mfr. No. 46501, 465010	¾" Male Garden Hose	34550	**6GDU8**

Fire Hose Testers

WHEELER REX

- Can test single or multiple lines; independently controlled
- Mounted on swivel casters for easy mobility
- Max. pressure: 500 psi
- For municipal fire hose, fire hose, and nozzles, go to pages 1817, 1818, and 1819.

Safely test fire hose lines to help prevent using damaged lines. Meet NFPA guidelines, except No. 45EJ63.


No. 6GDW1

Type	Inlet	Outlet	L	W	H	Mfr. Model	Item No.
2-Outlet, Positive Displacement	2½" NST Swivel Female Quick Fill	(2) 2½" NST Male Connection With Individual Ball Valves	38"	30"	24"	363020	**6GDW1**
4-Outlet, Positive Displacement	2½" NST Swivel Female Quick Fill	(4) 2½" NST Male Connection With Individual Ball Valves	38"	30"	24"	363040	**6GDW2**
Piston Pump, Positive Displacement	2½" NST Female Swivel Coupling	2½" NST Male Coupling	40"	48"	32"	363060	**45EJ63**



No. 1P322

Compact Submersible Centrifugal Pumps

Great for fountains, statues, water gardens, coolant systems, evaporative coolers, wet saws, and air conditioners. All pumps are continuous duty, except Nos. 2HNN9, 2HNP1 and 1P521 are intermittent duty.

Mild Corrosive Applications—Engineered thermoplastic motor housing handles water with higher mineral content. Small dimensions allow use in limited space. Nos. 2P495, 4RL01, 2P016, and 2P017 have glass-filled nylon housings and are oil filled.

Water and Mild Fluid Applications—Can be operated in open air, in-line, or submerged. No. 1P521 can pump water or machine oils when submerged, but should only be used in-line, not submerged, when pumping weak acids.

Water Applications—Pumps have epoxy-coated, cast-aluminum motor housing (except No. 1P321 is aluminum only) for added protection and oil-filled motors for extra cooling and durability.

HP	Features	Voltage	Full Load Amps	Housing Material*	Impeller Material*	Seal Material*	Cord Length	Inlet Type	Outlet	GPM of Water @ Total Ft. of Head 1	5	10	Max. Head	L	W	H	Brand	Mfr. Model	Item No.
Mild Corrosive Applications																			
1/250	Built-in, Adjustable Flow Control, Bottom Intake	115V	0.1	ABS	POM	—	6 ft.	Smooth	3/8 or 1/2" I.D.	1	—	—	2.6 ft.	2 3/4"	1 3/4"	3 1/2"	Little Giant	PES-70	**4RK99**
1/160	Submersible	115V	0.5	N	N	Nitrile	6 ft.	Screened	1/4" (M)NPT	2	—	—	4.6 ft.	4"	3"	4"	Little Giant	P-AAA	**2P495**
1/160	Submersible	115V	0.5	N	N	Nitrile	15 ft.	Screened	1/4" (M)NPT	2	—	—	4.6 ft.	4"	3"	4"	Little Giant	P-AAA-WG	**4RL01**
1/150	—	115	—	N	N	Viton	6 ft.	Screened	1/4" (M)NPT	—	2.5	—	10.2 ft.	4 1/4"	4 1/4"	4 9/16"	Little Giant	NK-1	**2P016**
1/125	Non-Potable Submersible Use, Epoxy-Encapsulated	115V	0.6	PP	PP	Nitrile	15 ft.	Screened	1/4" (M)NPT	3	1.7	—	7 ft.	4 15/16"	2 3/4"	3 1/2"	Little Giant	PE-1F-WG	**4RK97**
1/125	Submersible	115V	0.6	PP	PP	Nitrile	6 ft.	Screened	1/4" (M)NPT	3	1.7	—	7 ft.	3 1/2"	2 3/4"	3 5/8"	Little Giant	PE-1	**3P734**
1/125	—	115V	1.3	POM	POM	Viton	6 ft.	Screened	1/4" (M)NPT	4	3	1.9	—	4 17/32"	2 5/8"	4 27/32"	Dayton	2HNN4	**2HNN4**
1/125	—	230V	0.64	POM	POM	Viton	6 ft.	Screened	1/4" (M)NPT	4	3.3	2.0	—	4 17/32"	2 5/8"	4 27/32"	Dayton	2HNN5	**2HNN5**
1/70	—	115V	1.5	POM	POM	Viton	6 ft.	Screened	3/8 (M)NPT	6	5.1	4	—	4 5/8"	2 7/8"	5 1/4"	Dayton	2HNN7	**2HNN7**
1/70	—	115V	1.5	POM	POM	Viton	20 ft.	Screened	3/8 (M)NPT	6	5.1	4	—	4 5/8"	2 7/8"	5 1/4"	Dayton	2HNN6	**2HNN6**
1/70	—	230V	0.8	POM	POM	Viton	6 ft.	Screened	3/8 (M)NPT	6	5.6	4.1	—	4 5/8"	2 7/8"	5 1/4"	Dayton	2HNN8	**2HNN8**
1/50	—	115V	1.3	POM	POM	Viton	6 ft.	Screened	1/4" (M)NPT	4	3	1.9	—	4 17/32"	2 5/8"	4 27/32"	Dayton	2HNN3	**2HNN3**
1/40	Submersible	115V	0.8	N	N	Viton	6 ft.	Hooded	1/4" (M)NPT	5	4	2.2	12.2 ft.	4 17/32"	2 5/8"	4 27/32"	Little Giant	PE-2H	**4RK93**
1/40	—	115	—	N	N	Viton	6 ft.	Screened	1/4" (M)NPT	—	4.5	2.1	12.3 ft.	4 1/4"	4 1/4"	4 9/16"	Little Giant	NK-2	**2P017**
1/30	—	115V	2.73	POM	POM	Viton	6 ft.	Screened	1/2" (M)NPT	9	7.8	6.6	—	5 3/32"	4 1/4"	4 9/32"	Dayton	2HNN9	**2HNN9**
1/30	—	230V	1.4	POM	POM	Viton	6 ft.	Screened	1/2" (M)NPT	9	7.8	6.6	—	5 3/32"	4 1/4"	4 9/32"	Dayton	2HNP1	**2HNP1**
1/28	Non-Potable Submersible Use	115V	1.4	PP	N	Viton	6 ft.	Smooth	3/8 (M)NPT	8	6.6	3.4	13.4 ft.	4 5/8"	2 7/8"	5 1/4"	Little Giant	PE-2.5F	**4RK94**
Water and Mild Fluid Applications																			
1/400	—	115V	0.77	POM	POM	Viton	6 ft.	Screened	1/4" (M)NPT	2	—	—	—	4 17/32"	2 5/8	4 27/32	Dayton	2HNN2	**2HNN2**
1/100	Oil filled	115V	1.4	POM	Polyamide Fibre 56	Nitrile	6 ft.	1/2" NPT/Screen	1/4" (M)NPT	5	3.6	—	—	4 3/4"	4 7/8"	4 3/4"	Dayton	12U595	**12U595**
1/90	Oil filled	115V	1.4	POM	Polyamide Fibre 56	Nitrile	6 ft.	1/2" NPT/Screen	1/4" (M)NPT	6.3	4	—	—	4 3/4"	4 7/8"	4 3/4"	Dayton	12U596	**12U596**
1/50	Oil filled	115V	1.5	POM	Polyamide Fibre 56	Nitrile	6 ft.	3/4" GHT/Screen	3/8 (M)NPT	8.1	5.2	—	—	4 3/4"	4 7/8"	4 3/4"	Dayton	12U597	**12U597**
1/40	submersible when pumping water or machine oils only.	115	—	AL	N	Viton	6 ft.	3/8" (F)NPT	1/4" (M)NPT	—	3.4	1.2	11.8 ft.	5 1/2"	3 1/2"	4 1/2"	Little Giant	2E-NDVR	**1P521**
1/10	Oil filled, Screened	115V	5.2	Zinc Alloy	Zinc alloy	Nitrile	6 ft.	3/4" GHT/Screen	3/4 (M)GHT	16.2	14.3	12.6	—	6 7/8"	4 1/2"	4 7/8"	Dayton	12U598	**12U598**
Water Applications																			
1/200	Bottom Pump Inlet has Snap-Off Screen for Easy Cleaning	115V	1.1	PP	PP	Nitrile	18 ft.	Smooth	1/4" (M)NPT	3	1.7	—	7 ft.	4 1/4"	4 1/8"	4 1/4"	Little Giant	1-AA-18	**2P526**
1/200	—	115V	1.1	PP	PP	Nitrile	6 ft.	Smooth	1/4" (M)NPT	3	1.7	—	7 ft.	4 1/4"	4 1/4"	4 1/4	Little Giant	1-A	**1P939**
1/150	In-line or Submersible	115V	1.1	N	N	Nitrile	6 ft.	1/2" (M)NPT	1/4" (M)NPT	3	2	—	7.4 ft.	4 1/2"	4 1/2"	4 5/8"	Little Giant	1-42	**3P733**
1/40	In-line or Submersible	115V	1.7	N	N	Nitrile	15 ft.	3/8" (F)NPT	1/4" (M)NPT	5	3.4	1.2	11.8 ft.	5 1/2"	3 1/2"	4 3/4"	Little Giant	2E-38N-WG	**4RK85**
1/40	Submersible	115V	1.7	N	N	Nitrile	6 ft.	Hooded	1/4" (M)NPT	5	3.4	1.2	11.8 ft.	5 1/2"	3 1/2"	4 3/4"	Little Giant	2E-N	**1P321**
1/40	In-line or Submersible	115V	1.7	N	N	Nitrile	6 ft.	3/8" (F)NPT	1/4" (M)NPT	5	3.4	1.2	11.8 ft.	5 1/2"	3 1/2"	4 3/4"	Little Giant	2E-38N	**1P372**
1/40	Oil Filled	230V	0.7	N	N	Nitrile	12 ft.	3/8" (F)NPT	1/4" (M)NPT	5	3.4	1.2	11.8 ft.	5 1/2"	3 1/2"	4 3/4"	Little Giant	2E-38NY	**4XK38**
1/15	In-line or Submersible	115V	3.2	N	N	Viton	15 ft.	1/2" (F)NPT	1/2" (M)NPT	8	5.6	3.5	17.3 ft.	7"	4 1/2"	5 1/2"	Little Giant	3E-12N-WG	**4RK86**
1/15	In-line or Submersible	115V	3.2	N	N	Viton	6 ft.	1/2" (F)NPT	1/2" (M)NPT	8	5.6	3.5	17.3 ft.	7"	4 1/2"	5 1/2"	Little Giant	3E-12N	**1P323**
1/15	In-line or Submersible	230V	1.4	N	N	Viton	12 ft.	1/2" (F)NPT	1/2" (M)NPT	10	8.6	7.0	21 ft.	7"	4 1/2"	5 1/2"	Little Giant	3E-12NRY	**4XK39**
1/12	Submersible	115V	3.5	N	N	Viton	6 ft.	3/4" (F)NPT	1/2" (M)NPT	14	12.4	10.2	24.5 ft.	7"	4 1/2"	5 1/2"	Little Giant	4E-34NR	**1P322**

** ABS = acrylonitrile butadiene styrene, AL = aluminum, CI = Cast Iron, POM = acetal, N = nylon, PP = polypropylene.*



No. 4RK96



No. 1P929

Submersible Parts Washer Pumps

Suitable for circulating unheated Stoddard solvent, deodorized kerosenes, and other UL Classified parts-cleaning solutions. Viton® seal on stainless steel motor shaft, nylon volute and impeller, and polyethylene integral strainer, except No. 24WT11 has a nylon screen. 1/4" MNPT discharge. 6-ft., 3-conductor SJTO cord outlet. 115V, 60 Hz thermally protected motor. Metal standpipe or conduit (not included) must be attached to builder's fitting to protect cord from solvent attack or damage. Go to Grainger.com® for Coil Cleaning Kit No. 4RL09.

Polyester Housing—Pumps are epoxy encapsulated and housing is corrosion resistant. Suitable for pumping aqueous parts cleaning solutions up to 140°F, except No. 24WT11 is up to 120°F.

Die-Cast Aluminum Housing—Motor housing is unpainted. Can pump aqueous parts cleaning solutions up to 100°F.

HP	Amps AC	Cap. GPH 1 ft.	Cap. GPH 3 ft.	Cap. GPH 5 ft.	Shut Off	PSI	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Polyester Housing											
1/125	0.6	180	135	90	6.0	2.8	4 3/4	3	5 1/2	PE-1YSA	**4RK95**
1/40	0.8	300	270	240	12.0	5.3	5 1/2	3	5 1/2	PE-2YSA	**4RK96**
Die-Cast Aluminum Housing											
1/150	1.1	205	168	120	7.5	3.2	4 1/2	4 1/2	4 1/4	1-YS	**1P929**
1/40	1.7	300	255	205	11.8	5.1	5 1/2	3 1/2	4 3/4	2E-NYS	**4RK84**


No. 38EF20


No. 5RWG1


No. 4RK89


No. 5JKH3


No. 38CD20

Oase · BARNES pond boss · LittleGIANT · Dayton · Laing Thermotech

Pond and Fountain Pumps

Corrosion-resistant materials.

POND AND WATERFALL PUMPS

Suitable for high flow, low head height, low pressure, and solids handling capability with fewer clogs. Pumps provide a high flow rate per watt for energy-efficient continuous operation, and are safe for fish and plants. Ideal for filtration systems, water courses, and waterfalls.

ABS—Continuous-duty water gardening pumps have a PSC motor in an ABS housing.

FOUNTAIN PUMPS

Suitable for high head pressure and high height clean water applications. Small fountain pumps can be used for bubbling stones, decorative, and statuary decorative fountains. Higher head pressure pumps are ideal for demanding fountain applications, larger water features, and spray nozzles. Pond Boss models have an automatic low water shut-off to help prevent pump damage.

Brass—Designed for fountains, coolant systems, evaporative coolers, masonry wet saws, and other liquid-moving applications. Continuous-duty PSC motor has thermal overload protection. Discharge rotates in 90° increments. Mechanical seal has Buna N, stainless steel and carbon/ceramic parts. Horizontal mount.

Note: Brass models are not safe for fish and plants.

Nylon, Glass Fiber—Feature a nonclogging vortex impeller and can move large volumes of water in decorative fountain, water display, and waterfall applications. Carbon, ceramic, nitrile butadiene rubber seal and 304 stainless steel screen. PSC motor is continuous-duty rated with thermal overload protection. Horizontal or vertical mount. Strainer acts as the pump stand when unit is vertically mounted.

Polypropylene—Oil-free direct-drive pumps produce greater starting torque and flow pressure for continuous operation. Innovative dual discharge for waterfall and stream effects. Noryl® impeller and nitrile shaft seal. CSA Certified.

NONSUBMERSIBLE FOUNTAIN, NORYL®

Compact size eases vertical or horizontal installation. The electronically commutated motor (ECM) is up to 40% more efficient than a standard motor, continuous-duty rated, and overload protected. Smart Pump technology provides run-dry protection. Pump operates quietly and is water-lubricated, requiring no shaft or shaft seal, with only the impeller as a moving part. Suitable for water circulation, liquid transfer, ozone treatment, and general-purpose pumping.

WATER GARDEN PUMPS

No. 13L283 features a non-clogging vortex impeller and an auto reset thermal overload to help prevent pump and motor damage. Pump can pass solids up to 1 3/16" dia.

AUTO FILL VALVE

For permanent and temporary installations to automatically maintain water levels in a skimmer vault or other pond equipment. Includes ½" PVC slip and ¾" garden hose adapters.

HP	Outlet	Voltage	GPH of Water @ Total ft. of Head 5	10	20	30	Max. Head	Cord Length	L	H	Brand	Mfr. Model	Item No.
Pond and Waterfall Pumps													
ABS													
5/64	2" (M)NPT	120VAC	1200	0	—	—	9.5 ft.	20 ft.	11"	5½"	Oase	57620	**38EF21**
5/64	2" (M)NPT	120VAC	1200	0	—	—	10 ft.	20 ft.	13½"	6½"	Oase	57499	**38EF22**
3/32	2" (M)NPT	120VAC	540	0	—	—	8 ft.	20 ft.	11"	5½"	Oase	40347	**38EF20**
3/32	1½"	120VAC	600	120	—	—	14 ft.	16 ft.	9¼"	6"	Pond Boss	52351	**38EF30**
1/8	2" (M)NPT	120VAC	1740	300	—	—	11 ft.	20 ft.	11"	9"	Oase	57621	**38EF23**
9/64	2" (M)NPT	120VAC	1620	240	—	—	11 ft.	20 ft.	13½"	6½"	Oase	57500	**38EF24**
9/64	1½"	120VAC	1860	0	—	—	16 ft.	16 ft.	9¼"	6"	Pond Boss	52352	**38EF31**
3/16	1.5" MNPT	120VAC	2095	961	96	—	14.9 ft.	20 ft.	10"	7 9/16"	Little Giant	F20-2700	**36N479**
13/64	2" (M)NPT	120VAC	2640	1140	—	—	13 ft.	20 ft.	11"	5½"	Oase	57623	**38EF25**
7/32	2" (M)NPT	120VAC	2520	900	—	—	13 ft.	20 ft.	13½"	6½"	Oase	57501	**38EF26**
17/64	2"	120VAC	2880	1560	120	—	18 ft.	16 ft.	10½"	6"	Pond Boss	52353	**38EF33**
9/32	2" MNPT	120VAC	2897	1922	—	—	18.8 ft.	20 ft.	13¼"	8"	Little Giant	F30-4000	**36N480**
19/64	1½"	120VAC	1980	1380	—	—	20 ft.	20 ft.	14"	7"	Oase	57096	**38EF32**
3/8	2"	120VAC	3540	1680	320	—	22 ft.	16 ft.	10½"	6"	Pond Boss	52355	**38EF34**
47/64	2" (M)NPT	120VAC	660	4998	950	—	25 ft.	20 ft.	17"	11"	Oase	50296	**38EF27**
7/8	2" MNPT	120VAC	5929	4664	2042	—	28 ft.	40 ft.	13¼"	8"	Little Giant	F70-7300	**36N481**
Fountain Pumps													
ABS													
1/64	5/8"	120VAC	—	—	—	—	4.1 ft.	16 ft.	3½"	2"	Pond Boss	52341	**38EF35**
1/64	5/8"	120VAC	—	—	—	—	4.1 ft.	16 ft.	3½"	2"	Pond Boss	52335	**38EF36** *
3/64	5/8"	120VAC	—	—	—	—	9.4 ft.	16 ft.	4⅝"	2⅝"	Pond Boss	52342	**38EF37**
3/64	5/8"	120VAC	—	—	—	—	9.4 ft.	16 ft.	4⅝"	2⅝"	Pond Boss	52343	**38EF38** *
1/16	1"	120VAC	846	2	—	—	10.2 ft.	16 ft.	7"	5"	Oase	57617	**38EF40**
Brass													
1/3	1" (F)NPT	120VAC	—	3720	2820	1320	34 ft.	12 ft.	15¾"	8"	Dayton	5RWG1	**5RWG1**
1/2	1" (F)NPT	120VAC	—	4680	3840	2760	43 ft.	12 ft.	15¾"	8"	Dayton	5RWG2	**5RWG2**
3/4	1" (F)NPT	230VAC	—	5880	5100	4080	50 ft.	12 ft.	15¾"	8"	Dayton	5RGV5	**5RGV5**
3/4	1" (F)NPT	120VAC	—	5880	5100	4080	50 ft.	12 ft.	15¾"	8"	Dayton	5RWG3	**5RWG3**
3/4	—	120VAC	—	5700	5100	4080	—	12 ft.	15¾"	8 1/16"	Barnes	SFU71-GIS	**32ZN58**
1	1" (F)NPT	230VAC	—	6300	5580	4800	55 ft.	12 ft.	15¾"	8"	Dayton	5RWG4	**5RWG4**
1½	1¼" (F)NPT	230VAC	—	6900	6120	5400	60 ft.	12 ft.	15¾"	8⅞"	Dayton	5RGV6	**5RGV6**
2	1¼" (F)NPT	230VAC	—	7920	6720	6180	68 ft.	12 ft.	15¾"	8⅞"	Dayton	5RGV7	**5RGV7**
Nylon, Glass Fiber													
1/3	2" (F)NPT	120VAC	3250	2695	—	—	19 ft.	10 ft.	12"	6⅞"	Dayton	6LUP3	**6LUP3**
1/3	2" (F)NPT	120VAC	3884	3250	1110	—	23 ft.	10 ft.	12⅝"	6⅞"	Dayton	6LUP4	**6LUP4**
1/2	2" (F)NPT	120VAC	4518	4280	2616	—	26 ft.	20 ft.	13"	7⅛"	Dayton	6LUP5	**6LUP5**
1	2" (F)NPT	120VAC	5786	5469	4042	1662	36 ft.	20 ft.	13"	7⅛"	Dayton	6LUP6	**6LUP6**
Polypropylene													
1/8	1¼"	120VAC	1250	785	—	—	20 ft.	16 ft.	9 39/64"	8¼"	Little Giant	WGP-65-PW	**4RK88**
5/8	1¼"	120VAC	4000	3500	2200	—	30 ft.	16 ft.	11"	8¼"	Little Giant	WGP-95-PW	**4RK89**
Nonsubmersible Fountain Pump													
Noryl													
1/8	1½"	230VAC	35	21	—	—	10.5 ft.	4 ft.	5¾"	5 15/16"	Laing Thermotech	E14-NSTNNN2W-10	**5JKH3**
Water Garden Pumps													
Cast Iron													
¾	2" (F)NPT	120VAC	—	4345	—	—	36 ft.	19 ft.	6 13/16"	14 7/16"	Little Giant	WGFP-75	**13L283**

Material	Includes	Brand	Mfr. Model	Item No.
Auto Fill Valve				
Plastic	½" PVC Slip and ¾" Garden Hose Adapters	Little Giant	AFV-GH	**2EHN4**

Description	Cord Length	Brand	Mfr. Model	Item No.
Accessories				
Pond Vacuums				
PondoVac 3, Pond Vacuum, 2 Chambers, 120VAC	12 ft.	Oase	50409	**38CD18**
PondoVac 4, Pond/Pool Vacuum, 2 Chambers, 120VAC		Oase	37230	**38CD19**
Pond Filter/Clarifiers				
BioSmart Gravity Filter, 9W UV Clarifier 1500, 120V	16 ft.	Oase	40353	**38EJ47**
Vitronic 18W UV Pond Clarifier, 110V		Oase	56455	**38EJ50**
Vitronic 36W UV Pond Clarifier, 110V		Oase	40350	**38EJ51**
SwimSkin Floating Surface Skimmer/Air Injector, 110V	15 ft.	Oase	50040	**38EJ52**
AquaSkim In-Pond Surface Skimmer		Oase	57395	**38EJ53**
Lighting				
LunAqua 20W Halogen Light 12V	25 ft.	Oase	57010	**38CD20**
LunAqua 3W LED Light 12V		Oase	56463	**38CD24**
1 LED Accent Light Kit 12V	16 ft.	Pond Boss	52368	**38CD26**
3 LED Accent Light Kit 12V	26 ft.	Pond Boss	52369	**38CD27**

**** Includes LED light.***







Pond Fountain and Aeration Systems

Kasco

- 1750 rpm for long seal life
- Saltwater compatible

Systems contain the pumps and hardware needed to enhance landscape and aquaculture ponds. Fountains add visual interest to a commercial or residential setting. Aeration helps improve water quality, keeps fish alive, and adds oxygen for overall pond health. All systems feature submerged pumps with a top water intake. 2-yr. manufacturer's warranty on ½ to 1 HP; 3-yr. manufacturer's warranty on 2 HP and larger. Lights and adapter kits are available on Grainger.com®. All models are C-ETL and UL Listed, CSA Certified.

Aerating Fountain Systems— Economical fountains are aesthetically pleasing and deliver acceptable oxygen transfer. Provide an attractive V display while aerating the water. Include float with screen, mooring ropes, power cord, and control panel. Minimum water depth for operation is 15" (38cm).

Decorative Fountain Systems— Fountains pass water through deflectors for less clogging, have 5 to 7 built-in interchangeable spray patterns, and include an assortment of nozzles. Come complete with power control center that is compatible with Fountain Lighting Systems (sold separately). Include mooring lines, float, and bottom screen. Minimum water depth for operation is 17.5" (44.5cm).

Surface Aeration Systems— They agitate high volumes of water at the water surface to create maximum air exposure and high oxygen transfer. Provide up to 3 lb./oxygen/HP/hr. into the water for commercial fish farms, retention ponds, and industrial and municipal wastewater applications. Minimum water depth for operation is 15" (38cm).

HP	Voltage	Amps	Cord Length	Spray Pattern	Max. Spray Width	Max. Spray Height	Mfr. Model	Item No.
Pond Aerating Fountain Systems								
½	120V	5.6	50 ft.	V Shaped Pattern	15'	5 ft.	2400VFX050	**13T402**
	120V	5.6	100 ft.		15'	5 ft.	2400VFX100	**13T403**
¾	120V	7.3	50 ft.		21'	6 ft.	3400VFX050	**13T404**
	120V	7.3	100 ft.		21'	6 ft.	3400VFX100	**13T405**
	240V	3.7	100 ft.		21'	6 ft.	3400HVFX100	**16A129**
1	120V	11.3	100 ft.		26'	8 ft.	4400VFX100	**13T406**
2	240V	11	100 ft.		32'	8 ft.	8400VFX100	**13T410**
5	240V	20	200 ft.		34'	9 ft.	5.1VFX200	**13T412**
Pond Decorative Fountain Systems								
¾	120V	6.5	50 ft.	5 Changeable Spray Patterns: Linden, Cypress, Willow, Juniper, Sequoia	20'	7 ft.	3400JF050	**13T388**
	120V	6.5	100 ft.		20'	7 ft.	3400JF100	**13T389**
1	120V	11	100 ft.		25'	10 ft.	4400JF100	**13T390**
	240V	5.5	100 ft.		25'	10 ft.	4400HJF100	**13T391**
	120V	11	150 ft.		25'	10 ft.	4400JF150	**16A124**
2	240V	10	100 ft.	6 Changeable Spray Patterns: Linden, Willow, Juniper, Redwood, Spruce, Birch	46'	22 ft.	8400JF100	**13T392**
	240V	10	150 ft.		46'	22 ft.	8400JF150	**13T393**
	240V	10	200 ft.		46'	22 ft.	8400JF200	**13T394**
3	240V	13.4	100 ft.		48'	24 ft.	3.1JF100	**13T395**
	240V	13.4	150 ft.		48'	24 ft.	3.1JF150	**13T396**
	240V	13.4	200 ft.		48'	24 ft.	3.1JF200	**13T397**
5	240V	20	100 ft.	7 Changeable Spray Patterns: Linden, Willow, Juniper, Redwood, Spruce, Sequoia, Birch	50'	26 ft.	5.1JF100	**13T398**
	240V	20	150 ft.		50'	26 ft.	5.1JF150	**13T399**
	240V	20	200 ft.		50'	26 ft.	5.1JF200	**13T401**
Pond Surface Aeration Systems								
½	120V	5	50 ft.	High Flow Of Surface Agitation	4'	1 ft. 6"	2400AF050	**13T413**
	120V	5	100 ft.		4'	1 ft. 6"	2400AF100	**13T414**
¾	120V	6.7	50 ft.		4' 6"	1 ft. 9"	3400AF050	**13T415**
	120V	6.7	100 ft.		4' 6"	1 ft. 9"	3400AF100	**13T416**
	240V	3.4	50 ft.		4' 6"	1 ft. 9"	3400HAF050	**13T417**
	240V	3.4	100 ft.		4' 6"	1 ft. 9"	3400HAF100	**13T418**
1	120V	11.3	50 ft.		5'	2 ft.	4400AF050	**13T419**
	120V	11.3	100 ft.		5'	2 ft.	4400AF100	**13T420**
2	240V	9	100 ft.		6'	3 ft.	8400AF100	**13T421**
5	240V	18	100 ft.		7'	3 ft.	5.1AF100	**13T422**



Pond Fountain Pump Systems

Dayton

Pumps operate in a minimum of 5 ft. of water and draw water from below the pond surface; a 6" PVC screen filters mosquitoes, algae, and other vegetation to improve aeration and extend motor life. All parts are plastic and stainless steel for maximum corrosion resistance. Include foam-filled flotation system and 3 nozzles for different fountain patterns. 100-ft. cord. Preassembled for simple installation.

Nos. 2VAN2 to 2VAN4 feature a lockable, rainproof control center with internally mounted ground fault interrupter, adjustable 24-hr. timers and heat shrink splice kit for the motor cable.

Fountain Lighting Systems—Stainless steel housings with clear lenses can be easily installed onto the float to create dramatic nighttime displays. Include 3 white LED flood lamps, waterproof splice kit, and mounting hardware.

HP	Voltage	Full Load Amps	Spray Pattern	Max. Spray Width	Max. Spray Height	L	H	Item No.
Pond Aerating Fountain Systems								
½	115V	12	(3) Spray Patterns Sky Cannon 15 ft. High, Trumpet 13 ft. High, Water Lily 15 ft.	30 ft.	15 ft.	14½"	32"	**2VJ23**
	230V	6		30 ft.	15 ft.	14½"	32"	**2VAN2**
¾	230V	8	(3) Spray Patterns Sky Cannon 35 ft. High, Trumpet 20 ft. High, Water Lily 22 ft.	32 ft.	15 ft.	20"	34"	**2VAN3**
1	230V	9.8	(3) Spray Patterns Sky Cannon 41 ft. High, Trumpet 22 ft. High, Water Lily 24 ft.	46 ft.	15 ft.	20"	39"	**2VAN4**

Description	No. of Lamps	For Use With	Item No.
Fountain Lighting Systems and LED Light Sets, 120V, 120 Lamp Watts			
Fountain Lighting System, 100 ft. Cord	3	2VAN2, 2VAN3, 2VAN4	**3CPW1**
Light Set w/GFI, 100 ft. Cord	3	2VJ23	**6CCU6**
LED Light Set, White	3	3CPW1, 6CCU6	**3CPV9**
LED Light Set, Blue	3	3CPW1, 6CCU6	**3CPW2**
LED Light Set, Red	3	3CPW1, 6CCU6	**3CPW3**
LED Light Set, Green	3	3CPW1, 6CCU6	**3CPW4**

12V Shower Drain System and Bilge Pumps

rule

Efficient compact pumps have run-dry capability. Plastic housing. Use in fresh or salt water.

Shower Drain System— Compact and automatic 12VDC system includes 800 gph submersible pump with strainer and mercury-free float switch, plus 1½-gal. basin. Can connect up to 3 hoses.

Automatic On-Off Bilge— Continually sense for the presence of water and need no separate float switch. Pump impeller operates for approximately 1 sec. every 2.5 min. If water is present the pump runs until all water is removed.





Nonautomatic Bilge Pumps—Require pump control switches (sold separately).

Bilge Pump Float Switches— Environmentally friendly, mercury-free switches. Turn on at 2" water level; off at ¾". Ignition protected with no battery drain. ABS plastic construction with 26"L abrasion-resistant wire leads. Nos. 2GWK5 and 2GWK7 have removable bases. No. 2GWK7 has an integral switch cover with self-test feature.

Hose Outlet (in.)	GPM of Water @ 0 ft. of Head	Max. Head (ft.)	Mfr. Model	Item No.
Shower Drain System				
¾	13.3	12.5	98A-GRA	**2GWK8**
Automatic On-Off Bilge				
¾	8.3	11	25SA	**406R84**
1	18.3	10	27SA	**406R86**
1⅛	33.3	20.0	53S	**4P014**

Hose Outlet (in.)	GPM of Water @ 0 ft. of Head	Max. Head (ft.)	Mfr. Model	Item No.
Nonautomatic Bilge				
¾	6.0	12	24DA	**406R85**
	8.3	11	25DA	**406R83**
1⅛	13.3	14.4	20F	**4NX13**
	25.0	10.2	2	**4NX11**
	33.3	20.0	10	**3P998**
	33.3	16.0	12	**4NX12**
1½	61.7	23.5	14 A	**3P999**
	63.3	25.0	17A	**4P016**
2	66.7	26.5	56D	**4P012**

Voltage	For Use With	Wire Gauge	Mfr. Model	Item No.
Bilge Pump Float Switches				
12VDC to 24VDC	Mfr. No. 12, 24, 25D, 10	16	35A-GRA	**2GWK5**
12VAC to 24VAC to 32VAC	3P999, 4P012,4P016	14	40A-GRA	**2GWK7**
	Mfr. No. 14 A, 56D,17A	14	37A-GRA	**2GWK6**

Jetted Tub, Spa, and Swimming Pool Pumps

- 115/230V
- Max. liquid temp.: 100°F
- ODP motor enclosure
- NEMA 56 frame motor
- 3450 rpm, except Nos. 5PXG1 to 5PXG3 are 3450/1725 rpm

Made from a highly corrosion-resistant blend of glass-reinforced thermoplastic.

Above-Ground Pool Pumps—Include a 4" integral hair and lint strainer.

Self-Draining Jetted Tub Pumps—Include 2 sets of each: union collar, adapter, and O-ring.

2-Speed Spa Pumps—Allow low-flow circulation for prolonged periods or for high water movement. For use in spas and hot tubs. Include 2 sets of each: union collar, adapter, and O-ring.

HP	Amps	Inlet	Outlet	GPM of Water @ Total ft. of Head* 10	20	30	40	Max. Head	L	W	H	Brand	Item No.
Above-Ground Pool Pump, Capacitor Start													
½	9.6/4.8	1½"	1½"	60	47	29	—	36	18 11/16"	6 31/32"	10 15/32"	Dayton	**5PXG4**
¾	11.1/5.6	1½"	1½"	67	55	39	—	37	19 9/32"	6 31/32"	10 15/32"	Dayton	**5PXG5**
1	13.9/7.1	1½"	1½"	74	63	44	26	42	19 15/16"	6 31/32"	10 15/32"	Dayton	**5PXG6**
1½	17.3/9	1½"	1½"	77	70	55	38	45	20 7/8"	6 31/32"	10 15/32"	Dayton	**5PXG7**
Self-Draining Jetted Tub Pump, Capacitor Start													
½	8.1/4.5	1½"	1½"	63	49	29	—	34	17 5/16"	6 17/32"	9½"	Dayton	**5PXF7**
¾	11.4/5.8	1½"	1½"	76	65	51	—	40	17 3/32"	6 17/32"	9½"	Dayton	**5PXF8**
1	14.5/7.3	1½"	1½"	94	77	64	44	43	18 9/16"	6 17/32"	9½"	Dayton	**5PXF9**
1½	17.6/8.9	1½"	1½"	102	92	78	65	51	19 11/32"	6 17/32"	9½"	Dayton	**5PXG0**
2-Speed Spa Pump, Capacitor Start/Capacitor Run													
¾ - 1⅛	11.5/5.8-3.5/1.9	1½"	1½"	82	68	53	18	41	16 3/32"	6 17/32"	9½"	Dayton	**5PXG1** †
1 - 1⅛	15.0/7.5-3.9/1.9	1½"	1½"	98	86	72	56	46	16¾"	6 17/32"	9½"	Dayton	**5PXG2** †
1½ - 1⅚	15.3/7.6-4.4/2.2	1½"	1½"	103	91	74	62	51	17 11/16"	6 17/32"	9½"	Dayton	**5PXG3** †

HP	Operation/Thermal Protection	Amps	GPH of Water @ Total ft. of Head* 5	10	20	L	W	H	Brand	Item No.
Swimming Pool Cover Pump										
⅓	Automatic	2.2	1500	1150	216	12"	12"	8¼"	Little Giant	**4RU62**

To convert to psi, divide total feet of head by 2.31. † Based on 3450 rpm.

Swimming Pool Cover Pump—Automatic pump removes water from all types of pool covers.



No. 5PXF9

Commercial Swimming Pool Pumps

- Self-priming
- ODP motor enclosure
- 3450 rpm

Bronze—Semiopen bronze impellers. For optional strainers, see Pump Strainer table on this page.

Cast-Iron—Nos. 5PXC2 to 5PXC5 include a built-in oversized suction trap and integral strainer basket with easy-access lid. For optional strainers to Nos. 5PXC6 to 5PXC9, 5PXD0, and 5PXD1, see Pump Strainer table on this page.

Thermoplastic—Feature an integral hair and lint strainer.

- Closed thermoplastic impellers (except No. 5PXE7 is Noryl®)

Fits Pump	Item No.
Pump Strainer	
5PXC6, 5PXC7, 5PXC8, 5PXC9	**5PXF2**
5PXD0, 5PXD1	**5PXF3**
5PXD2, 5PXD3, 5PXD4, 5PXD5	**5PXF4**
5PXD6, 5PXD7, 5PXD8, 5PXD9	**5PXF5**
5PXE0, 5PXE1	**5PXF6**



No. 5PXC2

HP	Voltage	Amps	Inlet/ Outlet NPTF (in.)	Motor Type	NEMA/ IEC Frame	GPM of Water @ Total ft. of Head* 20	30	40	50	60	70	80	Max. Head (ft.)	Suction Lift (ft.)	Max. Liquid Temp. (°F)	L (in.)	W (in.)	H (in.)	Item No.
Bronze																			
½	115/230	9.2/4.7	1½ x 1½	Cap. Start	56Y	43	29.8	14.1	—	—	—	—	43	6	180°	13 15/16	6 13/16	8 13/16	**5PXD2**
¾	115/230	11.5/5.8	1½ x 1½	Cap. Start	56Y	54.7	41.6	25.7	—	—	—	—	48	6	180°	14½	6 13/16	8 13/16	**5PXD3**
1	115/230	14.5/7.3	1½ x 1½	Cap. Start	56Y	64.8	53.1	38.8	18.2	—	—	—	51	6	180°	15⅛	6 13/16	8 13/16	**5PXD4**
1½	115/230	19/9.5	1½ x 1½	Cap. Start	56Y	84.8	71.7	55.1	33.1	—	—	—	56	6	180°	16 1/16	6 13/16	8 13/16	**5PXD5**
2	115/230	19.5/9.7	2 x 2	Cap. Start/Cap. Run	56Y	112	99	82	58.3	—	—	—	60	6	180°	16 11/16	6 13/16	8 13/16	**5PXD6**
2	208-230/460	6.6-6.2/3.1	2 x 2	3-Phase	56Y	112	99	82	58.3	—	—	—	60	6	180°	16 5/16	6 13/16	8 13/16	**5PXD7**
3	208-230/460	9.8-9.3/4.65	2 x 2	3-Phase	182Y	137.2	127.7	107.8	85.3	54.3	26	—	77	6	180°	16 15/16	10½	12	**5PXD9**
3	230	14.5	2 x 2	Cap. Start/Cap. Run	182Y	137.2	127.7	107.8	85.3	54.3	26	—	77	6	180°	18 1/16	10½	12	**5PXD8**
5	208-230/460	15.8-15/7.5	3 x 3	3-Phase	182Y	257.9	243.2	226.1	205.8	182.3	153.3	124.1	100	6	180°	20	10½	12	**5PXE1**
5	230	21.5	3 x 3	Cap. Start/Cap. Run	182Y	257.9	243.2	226.1	205.8	182.3	153.3	124.1	100	6	180°	20	10½	12	**5PXE0**
Cast-Iron																			
½	115/230	9.4/4.8	1½ x 1½	Cap. Start	56Y	44.2	31.6	15.5	—	—	—	—	43	20	160°	19	6⅝	10⅝	**5PXC2**
¾	115/230	11.5/5.8	1½ x 1½	Cap. Start	56Y	51.8	41.5	26	4.8	—	—	—	51	20	160°	19⅝	6⅝	10⅝	**5PXC3**
1	115/230	16/8	1½ x 1½	Cap. Start	56Y	62.3	53.5	42.3	28.1	9.2	—	—	63	20	160°	20 5/16	6⅝	10⅝	**5PXC4**
1½	115/230	19.5/10	1½ x 1½	Cap. Start	56Y	69.5	61.4	51.7	40.1	26.6	5.9	—	71	20	160°	21	6⅝	10⅝	**5PXC5**
2	115/230	22/11	2 x 2	Cap. Start/Cap. Run	182Y	141.2	125.7	110.9	93.8	75.8	52.4	—	73	25	104°	21	9¾	12½	**5PXC6**
2	208-230/460	7.0-6.6/3.3	2 x 2	3-Phase	182Y	141.2	125.7	110.9	93.8	75.8	52.4	—	73	25	104°	19	9¾	12½	**5PXC7**
3	208-230/460	9.8-9.3/4.6	2 x 2	3-Phase	182Y	176.8	164.8	151.9	138.1	122.6	105.9	86.5	93	25	104°	19¾	9¾	12½	**5PXC9**
3	230	16	2 x 2	Cap. Start/Cap. Run	182Y	176.8	164.8	151.9	138.1	122.6	105.9	86.5	93	25	104°	21	9¾	12½	**5PXC8**
5	208-230/460	15.8-15/7.5	3 x 3	3-Phase	182Y	217.8	210.2	198.7	188.3	175.1	162.5	148.3	123	25	104°	22⅞	9¾	12½	**5PXD1**
5	230	22.3	3 x 3	Cap. Start/Cap. Run	182Y	217.8	210.2	198.7	188.3	175.1	162.5	148.3	123	25	104°	22⅞	9¾	12½	**5PXD0**
Thermoplastic																			
½	115/230	9.6/4.9	1½ x 1½	Cap. Start	56Y	45	39	31.6	23.6	12	—	—	60	10	102°	23 5/16	10	14 13/16	**5PXE2**
¾	115/230	11.5/5.8	1½ x 1½	Cap. Start	56Y	59.3	53	45.4	38.1	28.3	—	—	65	10	102°	24	10	14 13/16	**5PXE3**
1	115/230	18.8/9.5	1½ x 1½	Cap. Start	56Y	79	74.5	67.8	53	42	28	—	81	10	102°	24⅝	10	14 13/16	**5PXE4**
1½	115/230	19.4/9.7	1½ x 1½	Cap. Start	56Y	90.9	82.2	72.6	61.2	47	32	—	72	10	102°	25⅜	10	14 13/16	**5PXE5**
2	115/230	20.6/10.2	2 x 2	Cap. Start/Cap. Run	56Y	101.8	93.3	83.9	73.2	60.1	39.6	—	73	15	102°	25.5	10	11.75	**5PXE6**
2	208-230/460	6.6-6.2/3.1	2 x 2	3-Phase	56Y	101.8	93.3	83.9	73.2	60.1	39.6	—	73	10	102°	26 13/16	10	14 13/16	**5PXE7**
3	208-230/460	9.8-9.3/4.65	2 x 2	3-Phase	182Y	155.7	152.8	141.7	129.4	114.1	98.3	81.3	96	10	102°	29 5/16	11 5/16	15⅝	**5PXE9**
3	230	16	2 x 2	Cap. Start/Cap. Run	182Y	155.7	152.8	141.7	129.4	114.1	98.3	81.3	96	10	102°	30½	11 5/16	15⅝	**5PXE8**
5	208-230/460	15.1-14.1/7	3 x 3	3-Phase	182Y	217.3	215.5	213.2	205	190.9	175.9	158.2	127	10	102°	30½	11 5/16	15⅝	**5PXF1**
5	230	22.3	3 x 3	Cap. Start/Cap. Run	182Y	217.3	215.5	213.2	205	190.9	175.9	158.2	127	10	102°	32⅛	11 5/16	15⅝	**5PXF0**

To convert to psi, divide total feet of head by 2.31.

Pool Filters

FILTERS

- Max. water temp.: 100°F

Easy to install and ideal for maintaining a clean and sanitary swimming pool and spa environment. Resist UV light and suitable for indoor or outdoor use.

Cartridge—For residential and commercial pools and spas, from 9000 to 65,000 gal. Easy-to-read pressure gauge.

- Max. pressure: 40 psi

Sand—Easily maintained filters for residential in-ground and above-ground pools, from 16,000 to 48,000 gal. Filter rotates 360° for easy installation. Simple lever action allows selection of valve operation. Top diffuser ensures even water distribution over the sand bed.

- Max. pressure: 28 psi, except No. 4VMP3 is 36 psi

REPLACEMENT CARTRIDGE FILTER ELEMENTS

Filter out dirt and particles, easy to clean. Even pleats allow better filtering.

Pool Cap. (gal.)	Filter Height (in.)	Dia. (in.)	Filter Area (sq. ft.)	Total (gpm)	8-hr. Turnover (gal.)	Inlet/ Outlet (in.)	Sand Required (lb.)	Item No.	Replacement Cartridge Filter Elements Item No.
Cartridge Filters									
9,000 to 65,000	28½	8⅞	49.8	50.2	24,092	1½	—	**4VMN4**	**4VMP5**
	35 1/16	8⅞	75.3	74.8	35,927	1½	—	**4VMN6**	**4VMP6**
	42¾	8⅞	101.0	100.8	48,396	2	—	**4VMN7**	**4VMP7**
	49⅞	8⅞	147.6	147.1	70,587	2	—	**4VMN8**	**4VMP8**
Sand Filters									
16,000 to 48,000	33¾	20¾	2.4	47.5	22,800	1½	187	**4VMP1**	—
	37⅞	24 1/16	3.3	67.3	32,304	1½	320	**4VMP2**	—
	43	28½	4.4	88.8	42,606	2	474	**4VMP3**	—



No. 4VMN4



No. 4VMP2



No. 2ZWN9



No. 2ZWY5

Straight Centrifugal Pumps and Pedestal Pumps

- 3450 rpm motors; NEMA 56J frames
- Max. temp.: 200°F
- Max. viscosity: 100 SSU
- 4-position rotation

Pumps have continuous-duty motors for high-flow or high-head applications, with mechanical seals and side and bottom housing drain plugs. Designed for general transfer, boiler feed, condensate return, water circulation, irrigation, cooling towers, filtration, and pressure boosting.

1-phase motors are capacitor-start and have internal thermal protection. 3-phase units do not have overload protection and require a pump control box, sold separately.

Pedestal pumps can be driven by pulley or directly coupled to a motor.

HOUSING MATERIALS

Cast Iron—High-flow pumps have cast-iron housing and impellers, with Buna N, carbon, ceramic, and stainless steel mechanical seals. High-head pumps have Viton®, carbon, ceramic, and stainless steel mechanical seals.

Bronze—High-flow pumps have bronze housing and impeller, with Buna N, carbon, ceramic, and stainless steel mechanical seal. High-head pumps have bronze housing, stainless steel impeller, and Viton®, carbon, ceramic, and stainless steel mechanical seals.

Stainless Steel—Stainless steel housing and impeller, with Viton®, carbon, ceramic, and stainless steel mechanical seals.

Cast Iron, Brass Impeller—Cast-iron body with brass impeller. Seals are made from Viton®, carbon, ceramic, and stainless steel.

HP	GPM @ Head ft. Max.	Best*	Min.	Max. Head (ft.)†
High Flow Performance				
⅓	41 @ 10	30 @ 26	10 @ 40	44
½	67 @ 10	38 @ 27	10 @ 40	44
¾	72 @ 10	47 @ 36	22 @ 50	55
1	88 @ 10	75 @ 38	29 @ 50	58
1½	115 @ 10	72 @ 44	40 @ 60	67
2	122 @ 10	70 @ 52	10 @ 70	72
3	170 @ 10	95 @ 57	35 @ 70	74

HP	GPM @ Head ft. Max.	Best*	Min.	Max. Head (ft.)†
High Head Performance				
½	42 @ 10	29 @ 47	2 @ 80	82
¾	53 @ 10	33 @ 59	12 @ 90	98
1	59 @ 10	34 @ 70	3 @ 110	112
1½	94 @ 10	54 @ 70	18 @ 100	110
2	94 @ 10	54 @ 70	18 @ 100	110
3	107 @ 10	70 @ 72	2 @ 130	131

Seal Material	Shaft Size (in.)	Max. Temp. (°F)	Min. Temp. (F)	Item No.
Replacement Pump Shaft Seals				
Buna, Carbon, Ceramic	⅝	160	-25	**3ACE6**
Viton, Carbon, Ceramic	⅝	250	40	**3ACE7**
Viton, Silicon Carbide	⅝	250	40	**3ACE8**

HP	Motor Enclosure	Voltage	Amps	Inlet Size	Outlet Size	STRAIGHT CENTRIFUGAL PUMPS Cast-Iron Item No.	Bronze Item No.	Stainless Steel Item No.	PEDESTAL PUMPS, NO MOTOR Cast Iron Item No.	Bronze Item No.	Stainless Steel Item No.
High Flow											
⅓	Open Dripproof	115/230V AC	7.5/3.8	1 in NPT	¾ in NPT	**2ZWN9**	—	—	**2ZWX3**	—	—
⅓	Open Dripproof	120/240V AC	7.5/3.8	1 in NPT	¾ in NPT	—	**2ZWR4**	**2ZWT8**	—	**2ZWY1**	**2ZWY8**
½	Open Dripproof	120/240V AC	8.4/4.8	1 ¼ in NPT	1 in NPT	**2ZWP1**	**2ZWR5**	**2ZWT9**	—	**2ZWY2**	**2ZWY9**
½	Open Dripproof	208 to 240/480V AC	1.8-1.7/0.9	1 ¼ in NPT	1 in NPT	**2ZWP2** ‡	**2ZWR6** ‡	**2ZWU1** ‡	—	**2ZWY2** ‡	**2ZWY9** ‡
¾	Open Dripproof	120/240V AC	11.3/5.6	1 ¼ in NPT	1 in NPT	**2ZWP3**	**2ZWR7**	**2ZWU2**	**2ZWX5**	**2ZWY3**	**2ZWZ1**
¾	Open Dripproof	208 to 240/480V AC	2.7-2.5/1.2	1 ¼ in NPT	1 in NPT	**2ZWP4** ‡	**2ZWR8** ‡	**2ZWU3** ‡	**2ZWX5** ‡	**2ZWY3** ‡	**2ZWZ1** ‡
1	Open Dripproof	120/240V AC	14.4/7.2	1 ½ in NPT	1 ¼ in NPT	**2ZWP5**	**2ZWR9**	**2ZWU4**	**2ZWX6**	—	**2ZWZ2**
1	Open Dripproof	208 to 240/480V AC	3.7-3.2/1.6	1 ½ in NPT	1 ¼ in NPT	**2ZWP6** ‡	**2ZWT1** ‡	**2ZWU5** ‡	**2ZWX6** ‡	—	**2ZWZ2** ‡
1½	Open Dripproof	120/208 to 240V AC	17.0/9.0-8.5	1 ½ in NPT	1 ¼ in NPT	**2ZWP7**	—	—	**2ZWX7**	—	—
1½	Open Dripproof	208 to 240/480V AC	4.4-3.9/2.0	1 ½ in NPT	1 ¼ in NPT	**2ZWP8** ‡	**2ZWT3** ‡	**2ZWU7** ‡	**2ZWX7** ‡	**2ZWY5** ‡	**2ZWZ3** ‡
1½	Open Dripproof	120/208 to 240V AC	17/9.0-6.4	1 ½ in NPT	1 ¼ in NPT	—	**2ZWT2**	**2ZWU6**	—	**2ZWY5**	**2ZWZ3**
2	Totally Enclosed Fan-Cooled	120/208 to 240V AC	16.6/9.4-8.3	1 ½ in NPT	1 ¼ in NPT	**2ZWP9**	**2ZWT4**	**2ZWU8**	**2ZWX8**	**2ZWY6**	**2ZWZ4**
2	Totally Enclosed Fan-Cooled	208 to 240/480V AC	6.0-5.8/2.9	1 ½ in NPT	1 ¼ in NPT	**2ZWR1** ‡	**2ZWT5** ‡	**2ZWU9** ‡	**2ZWX8** ‡	**2ZWY6** ‡	**2ZWZ4** ‡
3	Totally Enclosed Fan-Cooled	240V AC	12.5	2 in NPT	1 ½ in NPT	**2ZWR2**	—	—	**2ZWX9**	—	—
3	Totally Enclosed Fan-Cooled	208 to 240/480V AC	8.3-7.6/3.8	2 in NPT	1 ½ in NPT	**2ZWR3** ‡	**2ZWT7** ‡	**2ZWX2** ‡	**2ZWX9** ‡	**2ZWY7** ‡	**2ZWZ5** ‡
3	Totally Enclosed Fan-Cooled	240V AC	-/12.5	2 in NPT	1 ½ in NPT	—	**2ZWT6**	**2ZWX1**	—	**2ZWY7**	**2ZWZ5**

HP	Motor Enclosure	Voltage	Amps	Inlet Size	Outlet Size	STRAIGHT CENTRIFUGAL PUMPS Cast-Iron Item No.	Cast-Iron Brass Impeller Item No.	Bronze Item No.	Stainless Steel Item No.
High Head									
½	Open Dripproof	120/240V AC	8.4/4.8	1 ¼ in NPT	1 in NPT	**2ZXJ1**	**2ZXL7**	**2ZWZ6**	**2ZXK4**
½	Open Dripproof	208 to 240/480V AC	1.8-1.7/0.9	1 ¼ in NPT	1 in NPT	**2ZXJ2** ‡	**2ZXL8** ‡	**2ZWZ7** ‡	**2ZXK5** ‡
¾	Open Dripproof	120/240V AC	11.3/5.6	1 ¼ in NPT	1 in NPT	**2ZXJ3**	**2ZXL9**	**2ZWZ8**	**2ZXK6**
¾	Open Dripproof	208 to 240/480V AC	2.7-2.5/1.2	1 ¼ in NPT	1 in NPT	**2ZXJ4** ‡	**2ZXN1** ‡	**2ZWZ9** ‡	**2ZXK7** ‡
1	Open Dripproof	120/240V AC	14.4/7.2	1 ¼ in NPT	1 in NPT	**2ZXJ5**	**2ZXN2**	**2ZXA1**	**2ZXK8**
1	Open Dripproof	208 to 240/480V AC	3.7-3.2/1.6	1 ¼ in NPT	1 in NPT	**2ZXJ6** ‡	**2ZXN3** ‡	**2ZXA2** ‡	**2ZXK9** ‡
1½	Open Dripproof	120/240V AC	13.5/6.4	1 ½ in NPT	1 ¼ in NPT	**2ZXJ7**	**2ZXN4**	**2ZXA3**	**2ZXL1**
1½	Open Dripproof	208 to 240/480V AC	4.4-3.9/2.0	1 ½ in NPT	1 ¼ in NPT	**2ZXJ8** ‡	**2ZXN5** ‡	**2ZXA4** ‡	**2ZXL2** ‡
2	Totally Enclosed Fan-Cooled	120/240V AC	16.6/8.3	1 ½ in NPT	1 ¼ in NPT	**2ZXJ9**	**2ZXN6**	**2ZXA5**	**2ZXL3**
2	Totally Enclosed Fan-Cooled	208 to 240/480V AC	6.0-5.8/2.9	1 ½ in NPT	1 ¼ in NPT	**2ZXK1** ‡	**2ZXN7** ‡	**2ZXA6** ‡	**2ZXL4** ‡
3	Totally Enclosed Fan-Cooled	240V AC	-/12.5	1 ½ in NPT	1 ¼ in NPT	**2ZXK2**	—	**2ZXA7**	**2ZXL5**
3	Totally Enclosed Fan-Cooled	208 to 240/480V AC	8.3-7.6/3.8	1 ½ in NPT	1 ¼ in NPT	**2ZXK3** ‡	**2ZXN9** ‡	**2ZXA8** ‡	**2ZXL6** ‡
3	Totally Enclosed Fan-Cooled	240V AC	12.5	1 ½ in NPT	1 ¼ in NPT	—	**2ZXN8**	—	—

** Use "Best gpm @ Head ft." for optimum performance. † To convert to psi, divide total feet of head by 2.31. Performance data at 3450 rpm. ‡ 3 phase.*

Pump Repair Kits for Straight Centrifugal and Pedestal Pumps

Kits contain O-ring, seal, impeller with shim kit, washer, screws, nuts, and lock washers to maintain the centrifugal pumps specified.



No. 21TG39

For Use With	Item No.
2ZWN9	**21TG36**
2ZWP1, 2ZWP2	**21TG37**
2ZWP3, 2ZWP4	**21TG39**
2ZWP5, 2ZWP6	**21TG41**
2ZWP7, 2ZWP8	**21TG43**
2ZWP9, 2ZWR1	**21TG45**
2ZWR2, 2ZWR3	**21TG47**
2ZWR4	**21TG49**
2ZWR5, 2ZWR6	**21TG50**
2ZWR7, 2ZWR8	**21TG52**
2ZWR9, 2ZWT1	**21TG54**
2ZWT2, 2ZWT3	**21TG56**
2ZWT4, 2ZWT5	**21TG58**
2ZWT6, 2ZWT7	**21TG60**
2ZWT8	**21TG62**
2ZWT9, 2ZWU1	**21TG63**
2ZWU2, 2ZWU3	**21TG65**
2ZWU4, 2ZWU5	**21TG67**
2ZWU6, 2ZWU7	**21TG69**
2ZWU8, 2ZWU9	**21TG71**

For Use With	Item No.
2ZWX1, 2ZWX2	**21TG73**
2ZWX3	**21TG75**
2ZWX5	**21TG77**
2ZWX6	**21TG78**
2ZWX7	**21TG79**
2ZWX8	**21TG80**
2ZWX9	**21TG81**
2ZWY1	**21TG82**
2ZWY2	**21TG83**
2ZWY3	**21TG84**
2ZWY5	**21TG86**
2ZWY6	**21TG87**
2ZWY7	**21TG88**
2ZWY8	**21TG89**
2ZWY9	**21TG90**
2ZWZ1	**21TG91**
2ZWZ2	**21TG92**
2ZWZ3	**21TG93**
2ZWZ4	**21TG94**
2ZWZ5	**21TG95**

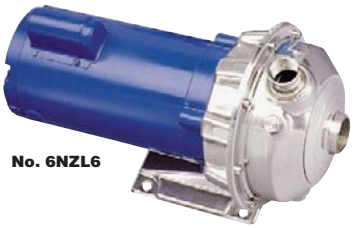
For Use With	Item No.
2ZXA3, 2ZXA4, 2ZXA5, 2ZXA6	**21TG96**
2ZXA7, 2ZXA8	**21TH01**
2ZWZ6, 2ZWZ7	**21TH03**
2ZWZ8, 2ZWZ9	**21TH05**
2ZXA1, 2ZXA2	**21TH07**
2ZXJ7, 2ZXJ8, 2ZXJ9, 2ZXK1	**21TH09**
2ZXK2, 2ZXK3	**21TH13**
2ZXJ1, 2ZXJ2	**21TH15**
2ZXJ3, 2ZXJ4	**21TH17**
2ZXJ5, 2ZXJ6	**21TH19**
2ZXL1, 2ZXL2, 2ZXL3, 2ZXL4	**21TH21**
2ZXL5, 2ZXL6	**21TH25**
2ZXK4, 2ZXK5	**21TH27**
2ZXK6, 2ZXK7	**21TH29**
2ZXK8, 2ZXK9	**21TH31**
2ZXL9, 2ZXN1	**21TH34**
2ZXN4, 2ZXN5, 2ZXN6, 2ZXN7	**21TH35**
2ZXN8, 2ZXN9	**21TH39**
2ZXN2, 2ZXN3	**21TH42**
2ZXL7, 2ZXL8	**21TH44**

GOULDS WATER TECHNOLOGY

Centrifugal Pumps

- 3500 rpm TEFC motors; NEMA 56J frames
- Max. temp.: 212°

Compact design mounts horizontally or vertically to fit into tight spaces. Corrosion-resistant 316 stainless steel housing with silicon carbide, Viton®, and stainless steel seals. Casing and adapter have NPT centerline connections with easily accessible drain, prime, and vent connections with stainless steel plugs. Designed for air scrubbers, chillers, filtration, liquid transfer, pressure boosting, spray systems, and water circulation applications.



No. 6NZL6

					1-PHASE				3-PHASE			
HP	Inlet Size	Outlet Size	Best Efficiency Range GPM @ Head*	Max. Head†	Voltage	Amps	Mfr. Model	Item No.	Voltage	Amps	Mfr. Model	Item No.
½	1 ¼ in NPT	1 in NPT	17.5 to 37.5 gpm @ 66 to 39 ft	75 ft.	120/240V AC	9.2/ 4.6	1ST1C4E4	**6NZL6**	208 to 240/480V AC	2.4-2.4/ 1.2	1ST1C5E4	**6NZN1**
¾	1 ¼ in NPT	1 in NPT	20 to 40 gpm @ 81.5 to 53 ft	95 ft.	120/240V AC	11.4 / 5.7	1ST1D4D4	**6NZL7**	208 to 240/480V AC	3.4-3.2/ 1.6	1ST1D5D4	**6NZN2**
	1 ½ in NPT	1 ¼ in NPT	48 to 68 gpm @ 42 to 32 ft	50 ft.	—	—	—	—	208 to 240/480V AC	3.4-3.2/ 1.6	2ST1F9J4	**52XG28**
1	1 ¼ in NPT	1 in NPT	22.5 to 42.5 gpm @ 96 to 68 ft	115 ft.	120/240V AC	13.6 / 6.8	1ST1E4C4	**6NZL8**	—	—	—	—
	1 ½ in NPT	1 ¼ in NPT	58 to 78 gpm @ 55 to 44 ft	68 ft.	—	—	—	—	208 to 240/480V AC	4.0-4.0/ 2.0	2ST1E9E4	**52XG29**
1½	1 ¼ in NPT	1 in NPT	25 to 45 gpm @ 113 to 82 ft	135 ft.	120/240V AC	18.4 / 9.2	1ST1F4B4	**6NZL9**	208 to 240/480V AC	5.4-5.4/ 2.7	1ST1F9B4BM	**52XG26**
	1 ½ in NPT	1 ¼ in NPT	62 to 82 gpm @ 65 to 56 ft	80 ft.	—	—	—	—	208 to 240/480V AC	5.4-5.4/ 2.7	2ST1F9D4	**52XG30**
	1 ¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	155 ft.	120/240V AC	20.8 / 10.4	1ST1G4A4	**6NZN0**	—	—	—	—
2	1 ¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	158 ft.	—	—	—	—	208 to 240/480V AC	6.6-6.4/3.2	1ST1G9A4	**52TW78**
	1 ½ in NPT	1 ¼ in NPT	65 to 85 gpm @ 75 to 64 ft	90 ft.	—	—	—	—	208 to 240/480V AC	6.6-6.4/3.2	2ST1G9F4	**52TW79**
	2 in NPT	1 ½ in NPT	84 to 104 gpm @ 60 to 52.5 ft	70 ft.	—	—	—	—	208 to 240/480V AC	6.6-6.4/3.2	3ST1G9C4	**52TW80**
	1 ¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	158 ft.	—	—	—	—	208 to 240/480V AC	9.6-8.6/4.3	1ST1H9A4	**52XG27**
3	1 ½ in NPT	1 ¼ in NPT	73 to 93 gpm @ 92 to 81 ft	110 ft.	—	—	—	—	208 to 240/480V AC	9.6-8.6/4.3	2ST1H9D4	**52XG31**
	2 in NPT	1 ½ in NPT	95 to 105 gpm @ 74 to 66.5 ft	88 ft.	—	—	—	—	208 to 240/480V AC	9.6-8.6/4.3	3ST1H9C4	**52XG33**
	1 ½ in NPT	1 ¼ in NPT	82 to 102 gpm @ 114 to 101 ft	132 ft.	—	—	—	—	208 to 240/480V AC	13.7-13.0/6.5	2ST1J9G4	**52XG32**
5	2 in NPT	1 ½ in NPT	114 to 134 gpm @ 94 to 88 ft	110 ft.	—	—	—	—	208 to 240/480V AC	13.7-13.0/6.5	3ST1J9C4	**52XG34**

** Use "Best Efficiency Range GPM @ Head" for optimum performance. † To convert to psi, divide total feet of head by 2.31. Performance data at 3500 rpm.*

Dayton®

High-Volume, Straight Center-Discharge Pumps

- 3-phase, except Nos. 4ZA37 and 4ZA51 are single phase
- 3450 rpm motors, except Nos. 4ZA37, and 4ZA51 are 3500 rpm
- TEFC motor enclosures

Pumps feature continuous-duty motors with enclosed impellers, 4-position port rotation, replaceable case ring, and easy-access housing drain plugs. Suitable for process applications, dewatering, irrigation, chemical transfer, decorative water features, and other industrial applications. Pumps do not have overload protection and require a pump control box, sold separately. Replacement seals are available on Grainger.com®.

Cast-Iron Wetted Materials—Cast-iron housing; bronze impeller. Seals are Buna N, stainless steel, carbon, and ceramic.

Stainless Steel Wetted Materials—Stainless steel housing and impeller. Seals are Viton®, stainless steel, carbon, and ceramic.

Naval Bronze Wetted Materials—Naval bronze housing with naval bronze impeller. Seals are stainless steel, Buna N, carbon, and ceramic.



No. 12A056

HP	Voltage	Amps	Frame	Inlet Size	Outlet Size	Best Efficiency Range GPM @ Head*	Max. Head+	CAST-IRON Item No.	STAINLESS STEEL Item No.	NAVAL BRONZE Item No.
1	120/240V AC	14.8/7.4	48Y	1 ¼ NPT	1 NPT	23 to 48 gpm @ 98 to 54 ft	113 ft.	**4RU78**	—	—
2	208 to 240/480V AC	5.6-5.2/2.6	145JM	2 ½ NPT	2 NPT	83 to 120 gpm @ 53 to 41 ft	63 ft.	**12A056**	**12A057**	—
	208 to 240/480V AC	5.6-5.2/2.6	145JM	2 NPT	1 ½ NPT	83 to 120 gpm @ 53 to 41 ft	63 ft.	**12A054**	**12A055**	—
2½	208 to 240/480V AC	7.0/3.5	56Y	2 NPT	1 ½ NPT	55 to 65 gpm @ 115 to 75 ft	142 ft.	**4RJ68**	—	—
	208 to 240/480V AC	8.2-7.4/3.7	182JM	2 ½ NPT	2 NPT	97 to 131 gpm @ 72 to 62 ft	84 ft.	**12A062**	**12A063**	—
	208 to 240/480V AC	8.2-7.4/3.7	182JM	2 NPT	1 ½ NPT	97 to 131 gpm @ 72 to 62 ft	84 ft.	**12A058**	**12A059**	—
3	208 to 240/480V AC	8.2-7.4/3.7	182JM	2 ½ Flange	2 Flange	97 to 131 gpm @ 72 to 62 ft	84 ft.	**12A060** †	**12A061**	—
	240V AC	12.5	56J	2 ½ NPT	2 NPT	100 to 160 gpm @ 78 to 60 ft	87 ft.	**4ZA37**	—	—
	240V AC	12.5	56J	2 ½ NPT	2 NPT	100 to 160 gpm @ 78 to 60 ft.	87 ft.	—	**4ZA51**	—
	208 to 240/480V AC	13.4-12.6/6.3	184JM	2 ½ Flange	2 Flange	123 to 188 gpm @ 90 to 68 ft	110 ft.	**12A068** †	**12A069**	—
5	208 to 240/480V AC	13.4-12.6/6.3	184JM	2 NPT	1 ½ NPT	123 to 188 gpm @ 90 to 68 ft	110 ft.	**12A066**	**12A067**	—
	208 to 240/480V AC	13.4-12.6/6.3	184JM	2 Flange	1 ½ Flange	123 to 188 gpm @ 90 to 68 ft	110 ft.	**12A064**	**12A065**	—
	208 to 240/480V AC	13.4-12.6/6.3	184JM	2 ½ NPT	2 NPT	123 to 188 gpm @ 90 to 68 ft	110 ft.	**12A070**	**12A071**	**12A072**
	208 to 240/480V AC	18.8-17.8/8.9	184JM	2 NPT	1 ½ NPT	110 to 136 gpm @ 138 to 102 ft	150 ft.	**12A073**	**12A074**	—
7½	208 to 240/480V AC	18.8-17.8/8.9	184JM	2 ½ NPT	2 NPT	110 to 136 gpm @ 138 to 102 ft	150 ft.	**12A075**	**12A076**	—
	208 to 240/480V AC	18.8-17.8/8.9	184JM	3 NPT	2 ½ NPT	210 to 315 gpm @ 82 to 64 ft	94 ft.	**12A077**	**12A078**	—
10	208 to 240/480V AC	25.6-24.4/12.2	215JM	2 ½ NPT	2 NPT	147 to 171 gpm @ 138 to 101 ft	190 ft.	**12A079**	**12A080**	—
	208 to 240/480V AC	25.6-24.4/12.2	215JM	3 NPT	2 ½ NPT	227 to 333 gpm @ 102 to 82 ft	112 ft.	**12A081**	**12A082**	**12A083**
15	240/460V AC	34.6/17.3	215JM	3 NPT	2 ½ NPT	221 to 380 gpm @ 133 to 99 ft	140 ft.	**12A084**	**12N805**	—

** Use "Best Efficiency Range GPM @ Head" for optimum performance. + To convert to psi, divide total feet of head by 2.31. † Requires standard 125 psi cast-iron flanges.*



No. 10X667

Pedestal Pumps for Direct or Pulley Drives

Dayton®

- Max. casing pressure: 150 psi
- Max. liquid temp: 180°F (except Nos. 10X669 and 10X670 are 200°F)

Pumps are suitable for use in chemical processing, liquid transfer, pressure boosting, and circulating heated or chilled water.

Pumps operate at speeds up to 4000 rpm. Feature durable, permanently lubricated, sealed ball bearings, ¾"-dia. 316 stainless steel shaft, and Type 21 Viton® mechanical seals. Motor sold separately.

							Housing Material		
HP Req.	Inlet	Outlet	GPM of Water @ 10 ft. of Head+	GPM of Water @ 30 ft. of Head+	GPM of Water @ 60 ft. of Head+	Max. Head	BRONZE Item No.	STAINLESS STEEL Item No.	CAST-IRON Item No.
1½	1¼"	1"	55.7	49.5	37.6	103 ft.	**10X667**	**10X669**	**10X671**
5	1½"	1¼"	104	96	82	135 ft.	**10X668**	**10X670**	**10X672**

+ To convert to psi, divide total ft. of head by 2.31. Performance data at 3450 rpm.



No. 1N524

Straight Centrifugal Pumps

- Cast-iron housing, bronze impeller
- 300 series stainless steel shaft and sleeve
- Mechanical shaft seal with stainless steel, Buna N, carbon/ceramic parts
- Max. liquid temp.: 212°F (100°C)

Pumps have continuous-duty motors to handle liquid transfer, water circulation, booster service, irrigation, spray system, jockey pump, and other general-purpose pumping applications. Close-coupled design has back pull-out for easy maintenance. Vent and drain plugs in all positions. Piping is female thread (NPT), except for 3" outlets which are 12516 ANSI flat-faced flanges.

3-phase pumps do not have overload protection, which must be provided in starter units, sold separately. Pump control box sold separately.

3- to 20-HP motors: Max. case working pressure is 175 psig; max. suction pressure is 100 psig; discharge can be rotated in 90° increments. Renewable bronze wear ring. Blue baked-on electrocoat paint finish.

⅓- to 2-HP motors: Max. case working pressure is 125 psig, except as noted below; discharge can be rotated in 45° increments, except as noted below. Motors are 3500 rpm with NEMA 56J frame, except ODP No. 3CCV8 is 3500/2900 rpm, 90° increments; TEFC Nos. 49UU60, 2VRU5, 49UU50, and 2VRU1 are 3450 rpm with NEMA 143 frame, 4 position increments; and TEFC No. 3CCV7 3500/2900 rpm, 90° increments.

Note: Nos. 1N497, 53DL78, 3CCU7, and 49UU50 have a high head impeller.

						1-PHASE, ODP (OPEN DRIPPROOF)					3-PHASE, ODP (OPEN DRIPPROOF)				
HP	Inlet Size	Outlet Size	Max. GPM @ Head	Min. GPM @ Head	Best Efficiency GPM @ Head*	Max. Head†	Voltage	Amps	Mfr. Model	Item No.	Max. Head†	Voltage	Amps	Mfr. Model	Item No.
⅓	1 ¼ in NPT	1 in NPT	29 @ 20 ft.	10 @ 37 ft.	20 @ 30 ft.	40 ft.	120/240V AC	10.8/5.4	1BF40312	**1N524**	40 ft.	208 to 240/480V AC	2.0-1.9/0.95	1BF40334	**1N523**
	1 ¼ in NPT	1 in NPT	37 @ 20 ft.	10 @ 48 ft.	22 @ 40 ft.	52 ft.	120/240V AC	10.8/5.4	1BF10312	**1N544**	52 ft.	208 to 240/480V AC	2.0-1.9/0.95	1BF10334	**1N543**
½	1 ½ in NPT	1 ¼ in NPT	60 @ 17 ft.	20 @ 28 ft.	42 @ 22 ft.	29 ft.	120/240V AC	10.8/5.9-5.4	2BF40512	**1N502**	29 ft.	208 to 240/480V AC	2.6-2.4/1.2	2BF40534	**1N501**
	1 ½ in NPT	1 ¼ in NPT	66 @ 20 ft.	20 @ 34 ft.	50 @ 30 ft.	36 ft.	120/240V AC	10.8/5.9-5.4	2BF10512	**1N520**	36 ft.	208 to 240/480V AC	1.8-1.8/.85	2BF10534	**3CCV8**
	1 ¼ in NPT	1 in NPT	43 @ 20 ft.	10 @ 57 ft.	25 @ 47 ft.	60 ft.	120/240V AC	10.8/5.9-5.4	1BF10512	**1N542**	60 ft.	208 to 240/480V AC	2.6-2.4/1.2	1BF10534	**1N541**
¾	1 ½ in NPT	1 ¼ in NPT	80 @ 30 ft.	20 @ 52 ft.	55 @ 45 ft.	52 ft.	120/240V AC	14.0/7.5-7.0	2BF10712	**1N518**	52 ft.	208 to 240/480V AC	3.7-3.6/1.8	2BF10734	**1N517**
	1 ¼ in NPT	1 in NPT	50 @ 30 ft.	10 @ 80 ft.	32 @ 65 ft.	83 ft.	120/240V AC	14.0/7.5-7.0	1BF10712	**1N540**	83 ft.	208 to 240/480V AC	3.7-3.6/1.8	1BF10734	**1N539**
1	1 ½ in NPT	1 ¼ in NPT	84 @ 40 ft.	20 @ 60 ft.	60 @ 53 ft.	61 ft.	120/240V AC	17.4/9.0-8.7	2BF11012	**1N516**	61 ft.	208 to 240/480V AC	4.4-4.2/2.1	2BF11034	**1N515**
	1 ¼ in NPT	1 in NPT	55 @ 40 ft.	10 @ 106 ft.	35 @ 85 ft.	108 ft.	120/240V AC	17.4/9.0-8.7	1BF11012	**1N538**	108 ft.	208 to 240/480V AC	4.4-4.2/2.1	1BF11034	**1N537**
1½	1 ½ in NPT	1 ¼ in NPT	96 @ 50 ft.	20 @ 78 ft.	66 @ 70 ft.	79 ft.	120/240V AC	21.2/11.1-10.6	2BF11512	**1N514**	79 ft.	208 to 240/480V AC	6.0-5.8/2.9	2BF11534	**1N513**
	1 ¼ in NPT	1 in NPT	58 @ 40 ft.	10 @ 116 ft.	37 @ 95 ft.	118 ft.	120/240V AC	21.2/11.1-10.6	1BF11512	**1N536**	118 ft.	208 to 240/480V AC	6-5.8/2.9	1BF11534	**1N535**
2	1 ½ in NPT	1 ¼ in NPT	100 @ 66 ft.	20 @ 101 ft.	75 @ 85 ft.	102 ft.	120/240V AC	26.0/13.8-13	2BF12012	**1N512**	102 ft.	208 to 230/460V AC	6.8-6.4/3.2	2BF12034	**1N511**
	2 in NPT	1 ½ in NPT	140 @ 25 ft.	40 @132 ft.	87 @ 104 ft.	139 ft.	120/208 to 240V AC	28/14.7-14	3BF1H1AOH	**1N497**	139 ft.	208 to 240/480V AC	9.5-9.0/4.5	3BF1HBA0H	**53DL78**
3	2 in NPT	1 ½ in NPT	155 @ 35 ft.	40 @ 110 ft.	110 @ 85 ft.	113 ft.	120/208 to 240V AC	28/14.7-14	3BF1H1C0	**3CCT9**	113 ft.	208 to 240/480V AC	9.5-9.0/4.5	3BF1HBC0	**53DL79**
	3 in NPT	2 ½ in NPT	190 @ 45 ft.	50 @ 60 ft.	125 @ 55 ft.	61 ft.	120/208 to 240V AC	28/14.7-14	4BF1H1K0	**1N483**	61 ft.	208 to 240/480V AC	9.5-9.0/4.5	4BF1HBK0	**53DL77**
5	2 in NPT	1 ½ in NPT	180 @ 66 ft.	40 @ 146 ft.	125 @ 115 ft.	150 ft.	120/208 to 240V AC	27.4-27	3BF1J1A0	**1N494**	150 ft.	208 to 240/480V AC	12/6	3BF1JBA0	**49UU52**
	3 in NPT	2 ½ in NPT	220 @ 65 ft.	50 @ 85 ft.	150 @ 78 ft.	89 ft.	208 to 240V AC	27.4-27	4BF1J1H0	**1N481**	80 ft.	208 to 240/480V AC	12/6	4BF1JBH0	**49UU46**
7½	2 in NPT	1 ½ in NPT	210 @ 63 ft.	50 @ 160 ft.	130 @ 140 ft.	165 ft.	240V AC	37	5BF1K1H0	**3CCU1**	165 ft.	208 to 240/480V AC	17.2/8.6	5BF1KBH0	**49UU37**
	3 in NPT	2 ½ in NPT	250 @ 90 ft.	50 @ 118 ft.	195 @ 103 ft.	125 ft.	240V AC	42	4BF1K1F0	**1N479**	125 ft.	208 to 240/480V AC	17.2/8.6	4BF1KBF0	**49UU45**
	4 in Flange	3 in Flange	450 @ 30 ft.	100 @ 90 ft.	300 @ 73 ft.	91 ft.	240V AC	37	6BF1K1E0	**3CCU2**	91 ft.	208 to 240/480V AC	17.2/8.6	6BF1KBE0	**49UU31**
	2 in NPT	1 ½ in NPT	230 @ 90 ft.	50 @ 200 ft.	150 @ 170 ft.	200 ft.	240V AC	46	5BF1L1C0	**3CCU4**	200 ft.	208 to 240/480V AC	25/12.5	5BF1LBC0	**49UU39**
10	3 in NPT	2 ½ in NPT	290 @ 110 ft.	100 @ 148 ft.	220 @ 128 ft.	149 ft.	240V AC	46	4BF1L1D0	**3CCU3**	149 ft.	208 to 240/480V AC	25/12.5	4BF1LBD0	**49UU48**
	4 in Flange	3 in Flange	500 @ 35 ft.	100 @ 110 ft.	325 @ 90 ft.	110 ft.	240V AC	46	6BF1L1C0	**3CCU5**	110 ft.	208 to 240/480V AC	25/12.5	6BF1LBC0	**49UU33**
15	2 in NPT	1 ½ in NPT	255 @ 160 ft.	50 @ 260 ft.	180 @220 ft.	—	—	—	—	—	260 ft.	208 to 240/480V AC	35/17.5	5BF1MBB0	**49UU38**
	4 in Flange	3 in Flange	580 @ 55 ft.	150 @ 157 ft.	400 @ 125 ft.	—	—	—	—	—	160 ft.	208 to 240/480V AC	35/17.5	6BF1MBB0	**49UU32**
20	2 in NPT	1 ½ in NPT	235 gpm @ 200 ft.	100 gpm @ 225 ft.	180 @ 240 ft.	—	—	—	—	—	275 ft.	240/460V AC	45.0/22.5	5BF1NBA0	**429H98**

						1-PHASE, TEFC (TOTALLY ENCLOSED FAN-COOLED)					3-PHASE, TEFC (TOTALLY ENCLOSED FAN-COOLED)				
HP	Inlet Size	Outlet Size	Max. GPM @ Head	Min. GPM @ Head	Best Efficiency GPM @ Head*	Max. Head†	Voltage	Amps	Mfr. Model	Item No.	Max. Head†	Voltage	Amps	Mfr. Model	Item No.
½	1 ¼ in NPT	1 in NPT	20 @ 20 ft.	10 @ 37 ft.	20 @ 30 ft.	40 ft.	120/240V AC	10.0/5.2-5.0	1BF50512	**1N522**	40 ft.	208 to 240/480V AC	2.8-2.7/1.35	1BF50534	**1N521**
	1 ¼ in NPT	1 in NPT	37 @ 20 ft.	10 @ 48 ft.	22 @ 40 ft.	52 ft.	120/240V AC	10.0/5.2-5.0	1BF20512	**1N534**	52 ft.	208 to 240/480V AC	2.8-2.7/1.35	1BF20534	**1N533**
	1 ¼ in NPT	1 in NPT	43 @ 20 ft.	10 @ 57 ft.	25 @ 47 ft.	60 ft.	120/240V AC	12.8/6.7-6.4	1BF20712	**1N532**	60 ft.	208 to 230/480V AC	3.7-3.6/1.8	1BF20734	**1N531**
¾	1 ½ in NPT	1 ¼ in NPT	60 @ 17 ft.	20 @ 28 ft.	42 @ 22 ft.	29 ft.	120/240V AC	10.2/5.3-5.1	2BF50712	**3CCV7**	29 ft.	208 to 240/480V AC	3.7-3.6/1.8	2BF50734	**1N499**
	1 ½ in NPT	1 ¼ in NPT	66 @ 20 ft.	20 @ 34 ft.	50 @ 30 ft.	36 ft.	120/240V AC	12.8/6.7-6.4	2BF20712	**1N510**	36 ft.	208 to 240/480V AC	3.7-3.6/1.8	2BF20734	**1N509**
	1 ¼ in NPT	1 in NPT	50 @ 30 ft.	10 @ 80 ft.	32 @ 65 ft.	83 ft.	120/240V AC	15/8.3-7.5	1BF21012	**1N530**	—	—	—	—	—
1	1 ½ in NPT	1 ¼ in NPT	80 @ 30 ft.	20 @ 52 ft.	55 @ 45 ft.	52 ft.	120/240V AC	15.0/8.3-7.5	2BF21012	**1N508**	—	—	—	—	—
	2 in NPT	1 in NPT	55 @ 40 ft.	20 @ 56 ft.	35 @ 50 ft.	65 ft.	120/240V AC	14.0/7.0	22BF1E4K0	**2VRU1**	190 ft.	240/460V AC	4.4-4.2/2.1	22BF1E9K0	**49UU59**
	1 ¼ in NPT	1 in NPT	55 @ 40 ft.	10 @ 106 ft.	35 @ 85 ft.	108 ft.	120/240V AC	20/11-10.0	1BF21512	**1N528**	—	—	—	—	—
1½	1 ½ in NPT	1 ¼ in NPT	84 @ 40 ft.	20 @ 60 ft.	60 @ 53 ft.	61 ft.	120/240V AC	20.0/11.0-10.0	2BF21512	**1N506**	—	—	—	—	—
	1 ½ in NPT	1 ¼ in NPT	90 gpm @ 35 ft.	12 gpm @ 62 ft.	60 @ 55 ft.	—	—	—	—	—	62 ft.	208 to 230/480V AC	4.5-4.8/2.4	2BF81534	**429H99**
	2 in NPT	1 in NPT	65 @ 50 ft.	20 @ 74 ft.	45 @ 65 ft.	85 ft.	120/240V AC	18.0/9.0	22BF1F4H0	**2VRU3**	190 ft.	240/460V AC	5.6-5.4/2.7	22BF1F9H0	**49UU60**
	1 ¼ in NPT	1 in NPT	58 @ 40 ft.	10 @ 116 ft.	37 @ 95 ft.	118 ft.	120/240V AC	22.8/11.7-11.4	1BF22012	**1N526**	118 ft.	208 to 240/480V AC	4.4-4.2/2.1	1BF82034	**52TW77**
2	1 ½ in NPT	1 ¼ in NPT	96 @ 50 ft.	20 @ 78 ft.	66 @ 70 ft.	79 ft.	120/240V AC	24.2/12.1	2BF22012	**1N504**	79 ft.	240 to 480V AC	4.4-4.2/2.1	2BF82034	**52TW76**
	2 in NPT	1 in NPT	70 @ 67 ft.	20 @ 94 ft.	55 @ 80 ft.	95 ft.	120/240V AC	24.2/12.1	22BF1G4F0	**2VRU5**	95 ft.	240/460V AC	4.4-4.2/2.1	22BF1G9F0	**49UU61**
	2 in NPT	1 in NPT	70 @ 75 ft.	20 @ 105 ft.	65 @ 80 ft.	—	—	—	—	—	270 ft.	240/460V AC	7.9-7.2/3.6	9BF1H9H0	**49UU64**
	2 in NPT	1 in NPT	70 @ 90 ft.	20 @ 120 ft.	60 @ 100 ft.	100 ft.	120/208 to 240V AC	29/14.5	9BF1H4G0	**2VRV2**	—	—	—	—	—
3	2 in NPT	1 in NPT	85 @ 100 ft.	20 @ 137 ft.	70 @ 115 ft.	145 ft.	120/240V AC	29/14.5	22BF1H4C0	**2VRU7**	190 ft.	240/460V AC	7.9-7.2/3.6	22BF1H9C0	**49UU62**
	2 in NPT	1 ½ in NPT	130 @ 30 ft.	40 @ 120 ft.	85 @ 95 ft.	125 ft.	120/208 to 240V AC	28/14.7-14	3BF1H4B0H	**3CCU7**	125 ft.	208 to 240/480V AC	7.9-7.2/3.6	3BF1H9B0H	**49UU50**
	2 in NPT	1 ½ in NPT	150 @ 20 ft.	20 @ 92 ft.	100 @ 75 ft.	95 ft.	120/240V AC	28/14.7-14	3BF1H4D0	**3CCU6**	95 ft.	208 to 240/480V AC	7.9-7.2/3.6	3BF1H9D0	**49UU51**
	3 in NPT	2 ½ in NPT	180 @ 45 ft.	77 @ 55 ft.	130 @ 55 ft.	61 ft.	120/208 to 240V AC	29/15-14.5	4BF1H4K0	**3CCU8**	125 ft.	208 to 240/480V AC	7.9-7.2/3.6	4BF1H9K0	**49UU42**
	2 in NPT	1 in NPT	83 @ 120 ft.	20 @ 160 ft.	70 @ 135 ft.	160 ft.	240V AC	21	9BF1J4F0	**2VRV4**	—	—	—	—	—
	2 in NPT	1 in NPT	86 @ 135 ft.	20 @ 180 ft.	76 @ 145 ft.	—	—	—	—	—	270 ft.	240/460V AC	12-11.8/5.9	9BF1J9E0	**49UU65**
5	2 in NPT	1 in NPT	95 @ 135 ft.	20 @ 165 ft.	77 @ 136 ft.	165 ft.	240V AC	21	22BF1J4B0	**2VRU8**	—	—	—	—	—
	2 in NPT	1 in NPT	100 @ 130 ft.	20 @ 185 ft.	82 @ 150 ft.	—	—	—	—	—	190 ft.	240/460V AC	12-11.8/5.9	22BF1J9A0	**49UU63**
	2 in NPT	1 ½ in NPT	170 @ 58 ft.	20 @ 131 ft.	120 @ 105 ft.	134 ft.	208 to 240V AC	21	3BF1J4B0	**3CCU9**	134 ft.	208 to 240/480V AC	12-11.8/5.9	3BF1J9B0	**49UU49**
	3 in NPT	2 ½ in NPT	210 @ 58 ft.	50 @ 75 ft.	140 @ 70 ft.	75 ft.	208 to 240V AC	21.0	4BF1J4J0	**1N473**	180 ft.	208 to 240/480V AC	12-11.8/5.9	4BF1J9J0	**49UU41**
	2 in NPT	1 in NPT	95 @ 180 ft.	30 @ 220 ft.	84 @ 190 ft.	225 ft.	240V AC	33	9BF1K4C0	**2VRV6**	270 ft.	240/460V AC	19.4-18/9	9BF1K9C0	**49UU66**
7½	2 in NPT	1 ½ in NPT	195 @ 50 ft.	50 @ 140 ft.	125 @ 120 ft.	140 ft.	240V AC	21	5BF1K4D0	**3CCV1**	140 ft.	208 to 240/480V AC	19.4-18/9	5BF1K9D0	**49UU34**
	3 in NPT	2 ½ in NPT	250 @ 75 ft.	50 @ 105 ft.	180 @ 90 ft.	109 ft.	240V AC	37	4BF1K4G0	**3CCV2**	109 ft.	208 to 240/480V AC	19.4-18/9	4BF1K9G0	**49UU40**
	4 in Flange	3 in Flange	260 @ 65 ft.	180 @ 88 ft.	250 @ 70 ft.	90 ft.	240V AC	37	6BF1K4E0	**3CCV5**	130 ft.	240/460V AC	19.4-18/9	6BF1K9E0	**49UU68**
	2 in NPT	1 in NPT	110 @ 210 ft.	30 @ 280 ft.	90 @ 235 ft.	285 ft.	240V AC	40	9BF1L4A0	**2VRV8**	270 ft.	240/460V AC	23.6/11.8	9BF1L9A0	**49UU67**
	2 in NPT	1 ½ in NPT	210 @ 80 ft.	50 @ 170 ft.	140 @ 145 ft.	170 ft.	240V AC	46	5BF1L4G0	**3CCV4**	170 ft.	240/460V AC	23.6/11.8	5BF1L9G0	**49UU36**
10	3 in NPT	2 ½ in NPT	270 @ 95 ft.	50 @ 125 ft.	210 @ 110 ft.	130 ft.	240V AC	46	4BF1L4E0	**3CCV3**	—	—	—	—	—
	4 in Flange	3 in Flange	50 @ 125 ft.	240 @ 105 ft.	320 @ 95 ft.	110 ft.	240V AC	46	6BF1L4C0	**3CCV6**	—	—	—	—	—
	4 in Flange	3 in Flange	500 @ 35 ft.	240 @ 105 ft.	320 @ 95 ft.	—	—	—	—	—	130 ft.	208 to 240/480V AC	23.6/11.8	6BF1L1D0	**49UU69**
	2 in NPT	1 ½ in NPT	145 @ 110 ft.	50 @ 215 ft.	150 @ 190 ft.	—	—	—	—	—	215 ft.	240/460V AC	34.2/17.1	5BF1M9F0	**49UU35**
15	3 in NPT	2 ½ in NPT	320 @ 130 ft.	50 @ 173 ft.	250 @ 150 ft.	—	—	—	—	—	125 ft.	240/460V AC	34.2/17.1	4BF1M9C0	**49UU43**
	4 in Flange	3 in Flange	600 @ 42 ft.	280 @ 150 ft.	350 @ 125 ft.	—	—	—	—	—	130 ft.	240/460V AC	34.2/17.1	6BF1M9B0	**49UU70**
20	2 in NPT	1 ½ in NPT	230 @ 184 ft.	0 @ 276 ft.	187 @ 234 ft.	—	—	—	—	—	295 ft.	240/460V AC	50.1-46.0/23.0	5BF1N9A0	**52XF11**

** Use "Best Efficiency GPM @ Head" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

HP	Inlet Size (NPT)	Outlet Size (NPT)	Max. Liquid Temp.	Best Efficiency Range GPM @ Head*	GPM of Water @ 30 ft. of Head	GPM of Water @ 40 ft. of Head	Max. Head+	1-PHASE 115/230 Amps	1-PHASE 115/230 Mfr. Model	1-PHASE 115/230 Item No.	3-PHASE‡ 208-230/460 Amps	3-PHASE‡ 208-230/460 Mfr. Model	3-PHASE‡ 208-230/460 Item No.
Cast Iron													
½	1¼"	1"	212°F	18 to 40 @ 62 to 35 ft.	44	35	71 ft.	10.2/5.1	1MC1C1E0	**4XW69**	—	—	—
	1¼"	1"	212°F	18 to 40 @ 62 to 35 ft.	44	36	71 ft.	9.4/4.7	1MC1C4E0	**4XW71**	2.7-2.6/1.3	1MC1C5E0	**4XW72**
¾	1¼"	1"	212°F	18 to 42 @ 75 to 42 ft.	48	43	84 ft.	12.2/6.1	1MC1D4D0	**4XW75**	—	—	—
	1¼"	1"	212°F	18 to 42 @ 75 to 42 ft.	48	43	71 ft.	—	—	—	2.7-2.6/1.3	1MC1D5D0	**4XW76**
1	1"	1¼"	212°F	24 to 32 @ 60 to 50 ft.	42	36	70 ft.	—	—	—	3.5-3.4/1.7	1MC1E9E0	**415J05**
	1"	1¼"	212°F	30 to 34 @ 80 to 75 ft.	—	52	100 ft.	—	—	—	3.5-3.4/1.7	1MC1E9C0	**415J04**
	1¼"	1"	212°F	22 to 45 @ 90 to 55 ft.	—	52	102 ft.	15.2/7.6	1MC1E4C0	**4XW79**	—	—	—
1½	1"	1¼"	212°F	32 to 40 @ 100 to 90 ft.	—	—	122 ft.	—	—	—	4.4-4.2/2.1	1MC1F9B0	**415J06**
	1¼"	1"	212°F	27 to 49 @ 110 to 75 ft.	—	—	123 ft.	14.4/8.7	1MC1F4B0	**4XW83**	—	—	—
2	1¼"	1"	212°F	32 to 50 @ 122 to 90 ft.	—	—	142 ft.	10.0	1MC1G4A0	**3CCT3**	—	—	—
	1¼"	1"	212°F	32 to 52 @ 122 to 89 ft.	—	—	142 ft.	—	—	—	7.1-6.0/3.0	1MC1G9A0	**52XG21**
	1½"	1¼"	212°F	55 to 85 @ 78 to 62 ft.	—	—	90 ft.	21/10.5	2MC1G1D0	**4XW94**	7.1-6.0/3.0	2MC1G9D0	**52XG22**
	1½"	1¼"	—	50 to 120 @ 44 to 28 ft.	—	—	—	—	—	—	9.6-8.6/4.3	2MC1H9A0	**52XG35**
3	1½"	1¼"	212°F	65 to 100 @ 100 to 75 ft.	—	—	112 ft.	13.8	2MC1H4A0	**3CCT4** **	—	—	—
	2"	1½"	—	65 to 165 @ 82 to 48 ft.	190	175	—	—	—	—	9.6-8.6/4.3	3MC1H9A0	**52XG36**
	2"	1½"	212°F	80 to 150 @ 80 to 60 ft.	—	175	87 ft.	13.8	3MC1H4A0	**3CCT5** **	—	—	—
Stainless Steel													
½	1¼"	1"	250°F	16 to 39 @ 67 to 38 ft.	—	37	62 ft.	9.4/4.7	1MS1C4E4	**4UB56**	2.7-2.6/1.3	1MS1C5E4	**4UB54**
¾	1¼"	1"	250°F	17 to 45 @ 85 to 50 ft.	—	—	95 ft.	12.2/6.1	1MS1D4D4	**4UB60**	2.7-2.6/1.3	1MS1D5D4	**4UB58**
	1¼"	1"	250°F	19 to 45 @ 101 to 62 ft.	—	—	114 ft.	15.2/7.6	1MS1E4C4	**4UB64**	—	—	—
1	1¼"	1"	212°F	29 to 37 @ 88 to 80 ft.	—	—	112 ft.	—	—	—	3.5-3.4/1.7	1MS1E7C4	**415J07**
	1¼"	1½"	212°F	25 to 30 @ 55 to 50 ft.	98	85	68 ft.	—	—	—	3.5-3.4/1.7	2MS1E7E4	**415J08**
	1½"	1¼"	250°F	38 to 98 @ 62 to 34 ft.	97	85	68 ft.	15.2/7.6	2MS1E4E4	**4UB76**	—	—	—
	1½"	2"	212°F	70 to 80 @ 44 to 40 ft.	110	77	50 ft.	—	—	—	3.5-3.4/1.7	3MS1F7G4	**415J09**
	2"	1½"	250°F	60 to 105 @ 43 to 28 ft.	104	76	50 ft.	15.2/7.6	3MS1E4E4	**4UB86**	—	—	—
1½	1¼"	1"	250°F	21 to 46 @ 119 to 80 ft.	—	—	136 ft.	14.4/8.7	1MS1F4B4	**4UB68** †	—	—	—
	1¼"	1"	212°F	38 to 42 @ 105 to 95 ft.	—	—	135 ft.	—	—	—	4.4-4.2/2.1	1MS1F7B4	**415J10**
2	1½"	1¼"	250°F	40 to 118 @ 83 to 55 ft.	—	118	—	—	—	—	7.3-6.6/3.3	2MS1G7F4	**53DL86**
	1½"	1¼"	250°F	40 to 118 @ 83 to 55 ft.	—	118	90 ft.	10.0	2MS1G4F4	**4UB80** **	—	—	—
3	1¼"	1"	250°F	20 to 47 @ 130 to 100 ft.	—	—	157 ft.	13.8	1MS1H4A4	**4UB72** **	9.6-8.6/4.3	1MS1H7A4	**52XG18**
	1½"	1¼"	250°F	53 to 116 @ 100 to 70 ft.	—	—	110 ft.	13.8	2MS1H4A4	**4UB92** **	9.6-8.6/4.3	2MS1H7D4	**52XG19**
	2"	1½"	250°F	60 to 137 @ 82 to 56 ft.	—	—	87 ft.	13.8	3MS1H4A4	**4UB90** **	9.6-8.6/4.3	3MS1H7D4	**52XG20**

**** Use "Best gpm @ Head ft." for optimum performance. + To convert to psi, divide total feet of head by 2.31. ** 1-phase 230V. † 1-phase 115/208-230V. ‡ 3-phase units do not have overload protection and require a pump control box, sold separately.***



No. 53DL86

GOULDS WATER TECHNOLOGY

Straight Center-Discharge Pumps

- Max. case pressure: 75 psi
- TEFC motors (Nos. 4XW69 and 4XW94 are ODP)

Continuous-duty motors and drain plugs.

WETTED MATERIALS

316 STAINLESS STEEL IMPELLER.

Cast-Iron—Seals are Buna N, stainless steel, carbon, and ceramic.

Stainless Steel—Seals are Viton®, stainless steel, carbon, and silicon carbide.

Self-Priming Pumps

- TEFC motors with 300 stainless steel motor shaft
- Max. case working pressure: 75 psi
- Max. temp.: 200°F
- Max. viscosity: 100 SSU
- Max. solids: ⅜" dia.

Close-coupled pumps self-prime to 6 ft. Feature clog-resistant open impellers, 1½" inlet/outlet ports, and drain plug. 1-phase motors have thermal overload protection.

WETTED MATERIALS

Cast-Iron—Impellers with Buna N, stainless steel, carbon, and ceramic mechanical seals.

Bronze and Stainless Steel—Stainless steel impeller. Seals are Viton®, stainless steel, carbon, and ceramic.

HP	Phase‡	Voltage	Best Efficiency Range GPM @ Head*	Max Head†	CAST-IRON HOUSING Amps	CAST-IRON HOUSING Item No.	BRONZE HOUSING Amps	BRONZE HOUSING Item No.	316 STAINLESS STEEL HOUSING Amps	316 STAINLESS STEEL HOUSING Item No.
⅓	1	115/208 to 230VAC	34 to 14 @ 20 to 36 ft.	45 ft.	8.0/3.5-4.0	**5WXU4**	8.0/3.5-4.0	**5WXU6**	8.0/3.5-4.0	**5WXU2**
½	1	115/208 to 230VAC	38 to 12 @ 23 to 44 ft.	50 ft.	8.6/4.0-4.3	**5WXU5**	8.6/4.0-4.3	**5WXU7**	8.6/4.0-4.3	**5WXU3**
¾	1	115/208 to 230VAC	14 to 52 @ 45 to 20 ft.	52 ft.	10.7/5.2-5.3	**2ZXP1**	10.7/5.2-5.3	**2ZXP9**	10.7/5.2-5.3	**2ZXR8**
	3	208 to 230/460VAC	14 to 52 @ 45 to 20 ft.	52 ft.	2.5-2.4/1.2	**2ZXP2**	2.5-2.4/1.2	**2ZXR1**	2.5-2.4/1.2	**2ZXR9**
1	1	115/208 to 230VAC	21 to 62 @ 45 to 22 ft.	52 ft.	12.2/6.3-6.1	**2ZXP3**	12.2/6.3-6.1	**2ZXR2**	12.2/6.3-6.1	**2ZXT1**
	3	208 to 230/460VAC	21 to 62 @ 45 to 22 ft.	52 ft.	3.3-3.2/1.6	**2ZXP4**	3.3-3.2/1.6	**2ZXR3**	3.3-3.2/1.6	**2ZXT2**
1½	1	115/208 to 230VAC	28 to 73 @ 45 to 25 ft.	52 ft.	13.5/7.6-6.7	**2ZXP5**	13.5/7.6-6.7	**2ZXR4**	13.5/7.6-6.7	**2ZXT3**
	3	208 to 230/460VAC	28 to 73 @ 45 to 25 ft.	52 ft.	4.5-4.6/2.3	**2ZXP6**	4.5-4.6/2.3	**2ZXR5**	4.5-4.6/2.3	**2ZXT4**
2	1	115/208 to 230VAC	26 to 99 @ 60 to 30 ft.	63 ft.	16.6/9.4-8.3	**2ZXP7**	—	—	16.6/9.4-8.3	**2ZXT5**
	3	208 to 230/460VAC	26 to 99 @ 60 to 30 ft.	63 ft.	6.0-5.8/2.9	**2ZXP8**	6.0-5.8/2.9	**2ZXR7**	6.0-5.8/2.9	**2ZXT6**

**** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31. ‡ 3-phase units do not have overload protection and require a pump control box, sold separately.***



No. 2ZXT6

Seal Material	Max. Temp. (°F)	Min. Temp. (F)	Item No.
Buna, Carbon, Ceramic	140	-25	**3ACF4**
Viton, Carbon, Ceramic	180	40	**3ACF5**
Viton, Silicon Carbide	200	40	**3ACF7**
PTFE, Carbon, Ceramic	250	40	**3ACF6**

Self-Priming Pumps and Pedestal Pumps



No. 4UA72

Pumps with 1" NPT port self-prime to 7 ft.; pumps with 1½", 2", and 3" NPT ports self-prime to 20 ft. For high-volume industrial and commercial applications including liquid and chemical transfer.Replacement seals are available on Grainger.com®.

Cast-Iron—Mechanical seals are carbon, ceramic, and Buna N. Semiopen impellers. Stainless steel shaft, except Nos. 12N810, 12N812, and 12N814 have a steel with stainless steel shaft and built-in check valve.

Stainless Steel—Mechanical seals are carbon, ceramic, and Viton®. Semiopen impellers. Stainless steel shaft, except Nos. 12N811, 12N813, and 12N815 have a steel with stainless steel shaft and built-in check valve.

Pedestal Pumps—Seals are Buna N, stainless steel, carbon, and ceramic.

- Require 3450 rpm motors
- 1 and 2 HP models have ⅝" shaft, 3 HP model has ¾" shaft

HP	Phase	Voltage (VAC)	Amps	Motor Encl.	Frame	Inlet Size (NPT)	Outlet Size (NPT)	Max. Dia. Solids	Best Efficiency Range GPM @ Head*	Max. Head†	Max. Temp	CAST-IRON HOUSING AND IMPELLER Item No.	STAINLESS STEEL HOUSING AND IMPELLER Item No.
⅓	1	115/230	7.5/3.8	ODP	56J	1"	1"	⅛	18 to 25 gpm @ 35 to 32 ft.	41 ft.	200°F	—	**5GUP0**
	1	115/230	7.5/3.8	ODP	56J	1"	1"	⅛	26 to 30 gpm @ 30 to 27 ft.	41 ft.	200°F	**4UA63**	—
½	1	115/230	8.4/4.8	ODP	56J	1½"	1½"	⅛	18 to 38 gpm @ 60 to 40 ft.	78 ft.	200°F	**4UA67**	**4UA68**
¾	1	115/230	11.3/5.6	ODP	56J	1½"	1½"	⅛	30 to 50 gpm @ 62 to 50 ft.	82 ft.	200°F	**4UA69**	**4UA70**
	3	208 to 230/460	2.7-2.5/1.2	ODP	56J	1½"	1½"	⅛	30 to 50 gpm @ 62 to 50 ft.	82 ft.	200°F	**4UA64**	—
	3	208 to 230/460	2.7-2.5/1.2	ODP	56J	1½"	1½"	⅛	38 to 55 gpm @ 63 to 49 ft.	82 ft.	200°F	—	**5GUP1**
1	1	115/230	14.4/7.2	ODP	56J	1½"	1½"	⅛	39 to 51 gpm @ 70 to 58 ft.	90 ft.	200°F	—	**5GUP2**
	1	115/230	14.4/7.2	ODP	56J	1½"	1½"	⅛	41 to 52 gpm @ 70 to 60 ft.	90 ft.	200°F	**4UA65**	—
	3	208 to 230/460	3.7-3.2/1.6	ODP	56J	1½"	1½"	⅛	39 to 51 gpm @ 70 to 58 ft.	90 ft.	200°F	—	**5GUP3**
	3	208 to 230/460	3.7-3.2/1.6	ODP	56J	1½"	1½"	⅛	41 to 52 gpm @ 70 to 60 ft.	90 ft.	200°F	**4UA66**	—
	3	208 to 230/460	4.4-3.9/2.0	ODP	56J	1½"	1½"	⅛	41 to 67 gpm @ 80 to 56 ft.	96 ft.	200°F	**4UA73**	—
1½	1	115/208 to 230	17.0/9.0-8.5	ODP	56J	1½"	1½"	⅛	41 to 67 gpm @ 80 to 56 ft.	96 ft.	200°F	**4UA71**	—
	1	115/230	13.5/6.4	ODP	56J	1½"	1½"	⅛	41 to 67 gpm @ 80 to 56 ft.	96 ft.	200°F	—	**4UA72**
	3	230/460	3.9/2.0	ODP	56J	1½"	1½"	⅛	41 to 67 gpm @ 80 to 56 ft.	96 ft.	200°F	—	**4UA74**
2	1	115/230	20/10	ODP	56J	2"	2"	⅛	63 to 100 gpm @ 60 to 46 ft.	72 ft.	200°F	**4UA76**	**4UA75**
	3	208 to 230/460	5.9-5.2/2.5	ODP	56J	2"	2"	⅛	58 to 100 gpm @ 60 to 46 ft.	72 ft.	200°F	**4UA77**	—
	3	208 to 230/460	5.9-5.2/2.5	ODP	56J	2"	2"	⅛	64 to 90 gpm @ 60 to 49 ft.	72 ft.	200°F	—	**5GUP4**
3	3	208 to 230/460	8.2-7.4/3.7	TEFC	182JM	3"	3"	⅜	99 to 155 gpm @ 51 to 37 ft.	65 ft.	180°F	**12N810**	**12N811**
5	3	208 to 230/460	13.4-12.6/6.3	TEFC	184JM	3"	3"	⅜	105 to 142 gpm @ 69 to 59 ft.	88 ft.	180°F	**12N812**	**12N813**
7½	3	208 to 230/460	18.8-17.8/8.9	TEFC	184JM	3"	3"	⅜	129 to 187 gpm @ 86 to 71 ft.	110 ft.	180°F	**12N814**	**12N815**

HP Req.	Bearing Type	Inlet	Outlet	Max. Dia. Solids	Best Efficiency GPM @ Head	Item No.
Pedestal Pumps (No Motor Included); Cast-Iron Housing & Impeller						
1	Sealed Ball	1¼"	1¼"	⅜	14 @ 36 ft.	**5PXX7**
2	Sealed Ball	1½"	1½"	⅜	52 @ 62 ft.	**5PXX6**
3	Sealed Ball	2"	2"	⅜	60 @ 75 ft.	**5PXX8**

**** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.***

Self-Priming Sewage and Trash Pumps

- Temp. range: 40° to 160°F
- TEFC motor enclosure

Pumps have continuous-duty motors and internal check valves to handle high volumes of liquids containing sewage and other solids, up to 8% max.; self-prime to 20 ft. They are close-coupled for simple installation and can be truck-mounted. All include a suction strainer. Nos. 12N807 to 12N809 feature a cleanout with 2 twist knobs for easy access.

Provide support to such applications as process, liquid transfer, irrigation, clear or gray water, and sewage treatment in industrial and commercial facilities. Replacement seals are available on Grainger.com®.



No. 4YU36

HP	Inlet Size	Outlet Size	Phase	Voltage	Amps‡	Frame	Max Head	Max. Dia. Solids	Best Efficiency GPM @ Head*	Max. Head†	Item No.
3	2" NPT	2" NPT	3	208-230/460	8.3-7.6/3.8	56J	60 ft.	1	55 @ 39 ft.	60	**4YU36**
3	2" NPT	2" NPT	1	230	12.5	56J	60 ft.	1	55 @ 39 ft.	60	**4YU37**
5	2" NPT	2" NPT	3	208-230/460	13.4-12.6/6.3	184JM	105 ft.	1	93 @ 66 ft.	105	**12N806**
7.5	3" NPT	3" NPT	3	208-230/460	18.8-17.8/8.9	184JM	92 ft.	1½	218 @ 39 ft.	92	**12N807**
10	3" NPT	3" NPT	3	208-230/460	25.6-24.4/12.2	215JM	109 ft.	1½	250 @ 55 ft.	109	**12N808**
15	4" NPT	4" NPT	3	230/460	34.6/17.3	215JM	120 ft.	1½	410 @ 49 ft.	120	**12N809**

** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide by 2.31, at 0 gpm. ‡ Amps may vary by motor manufacturer.*

Self-Priming Lawn Sprinkler/Booster Pumps



No. 1N441


No. 5RWG5

- Cast-iron housings

Pumps hold prime for efficient water transfer.

DAYTON®
- Max. fluid temp.: 180°F
- Max. casing pressure: 150 psi

Feature an easy clean-out design with a front drain plug and removable, replaceable cast-iron volute/diffusers and adapters. 1-phase pumps have built-in thermal overload protection.

GOULDS
- Max. fluid temp.: 140°F
- Max. casing pressure: 125 psi

1-phase capacitor-start models have built-in overload protection with automatic reset. 3-phase units do not have overload protection and require a pump control box, sold separately.

HP	Motor Encl.	Inlet Size	Outlet Size	Best Efficiency GPM @ Head	Max. Head	Brand	1 PHASE 115/208-230 Amps	1 PHASE 115/208-230 Mfr. Model	1 PHASE 115/208-230 Item No.	1 PHASE 115/230VAC Amps	1 PHASE 115/230VAC Mfr. Model	1 PHASE 115/230VAC Item No.	3 PHASE 208-230/460 Amps	3 PHASE 208-230/460 Mfr. Model	3 PHASE 208-230/460 Item No.
½	TEFC	1½" NPT	1½" NPT	33 @ 55 ft.	64 ft.	Dayton	10.5/5.8-5.3	5RWH6	**5RWH6**	—	—	—	3.8-3.5 /1.8	5RWH7	**5RWH7**
¾	ODP	1½" NPT	1½" NPT	40 @ 60 ft.	104 ft.	Goulds	14.8/7.4	GT07	**1N441** †	—	—	—	3.7-3.6/1.8	GT073	**6MR22**
¾	TEFC	1½" NPT	1½" NPT	26 @ 46 ft.	83 ft.	Dayton	14.2/7.8-7.1	5RWG5	**5RWG5**	—	—	—	5.2-5.0/2.5	5RWH8	**5RWH8**
1	ODP	1½" NPT	1½" NPT	50 @ 55 ft.	118 ft.	Goulds	16.2/8.1	GT10	**1N440** †	—	—	—	4.4-4.2/2.1	GT103	**6MR23**
1	TEFC	1½" NPT	1½" NPT	32 @ 69 ft.	101 ft.	Dayton	—	—	—	19.2/9.6	5RWG6	**5RWG6**	7.0-6.5/3.3	5RWH9	**5RWH9**
1½	ODP	1½" NPT	1½" NPT	50 @ 92 ft.	122 ft.	Goulds	21.4/10.7	GT15	**1N439** †	—	—	—	6.0-5.8/2.9	GT153	**6MR24**
1½	TEFC	1½" NPT	1½" NPT	35 @ 69 ft.	104 ft.	Dayton	—	—	—	19.9/9.9	5RWG7	**5RWG7**	7.5-7.2/3.6	5RWG8	**5RWG8**
2	ODP	1½" NPT	1½" NPT	65 @ 97 ft.	125 ft.	Goulds	12.9	GT20	**1N438** *	—	—	—	6.8-6.4/3.2	GT203	**1N437**
2	TEFC	1½" NPT	1½" NPT	42 @ 80 ft.	118 FT.	Dayton	26.2/13.6 -13.1	5RWG9	**5RWG9**	—	—	—	9.7-9.1/4.6	5RWJ0	**5RWJ0**
2	TEFC	1½" NPT	1½" NPT	40 @ 105 ft.	147 ft.	Dayton	22.8/12.5-11.4	5RWH0	**5RWH0**	—	—	—	10.6-9.7/4.8	5RWH1	**5RWH1**
3	ODP	1½" NPT	1½" NPT	70 @ 102 ft.	129 ft.	Goulds	13.3	GT30	**1N436** *	—	—	—	9.6-9.4/4.7	GT303	**1N435**
3	TEFC	1½" NPT	1½" NPT	38 @ 119 ft.	169 FT.	Dayton	28.8/14.8-14.4	5RWH2	**5RWH2**	—	—	—	12.0-10.6/5.3	5RWH3	**5RWH3**
5	TEFC	2" NPT	2" NPT	63 @ 105 ft.	161 ft.	Dayton	—	—	—	—	—	—	14.7-13.4/6.7	5RWH4	**5RWH4**
7½	TEFC	2" NPT	2" NPT	85 @ 117 ft.	180 ft.	Dayton	—	—	—	—	—	—	20.6-18.8/9.4	5RWH5	**5RWH5**

** 230V only. † 115/230V only.*

Self-Priming Thermoplastic Pumps


No. 5RWP3

- Max. operating temp.: 140°F
- Max. suction lift: 20 ft.
- Heavy-duty TEFC, 3450 rpm motors

Fiberglass-reinforced pump bodies are specially fitted to resist seawater and saltwater. Durable and corrosion-resistant with stainless steel fasteners, inserts, and shafts. 1-phase pumps have built-in thermal overload protection.

HP	Inlet Size	Outlet Size	Best Efficiency GPM @ Head	Max. Head	1 PHASE 115/208-230 Amps	1 PHASE 115/208-230 Item No.	3 PHASE 208-230/460 Amps	3 PHASE 208-230/460 Item No.
½	2" NPT	1½" NPT	35 @ 46 ft.	64 ft.	9.4/4.3-4.7	**5UPW3**	3.6-3.2/1.6	**5UPW4**
¾	2" NPT	1½" NPT	32 @ 60 ft.	97 ft.	16.5/9.1-8.3	**5RWP3**	5.2-5.0/2.5	**5UPW5**
1	2" NPT	1½" NPT	31 @ 70 ft.	106 ft.	12.0/6.0	**5RWP4**	7.0-6.4/3.2	**5UPW6**
1½	2" NPT	1½" NPT	39 @ 85 FT.	115 ft.	18.4/9.5-9.2	**5RWP5**	—	—
2	2" NPT	2" NPT	47 @ 70 FT.	134 ft.	23.0/12.0-11.5	**5UPW1**	9.0-8.8/4.4	**5UPW8**
3	2" NPT	2" NPT	55 @ 90 ft.	141 ft.	28.5/14.8-14.2	**5UPW2**	11.2-10.6/5.3	**5UPW9**

Self-Priming Prime Line® Pumps


No. 1XLY9

- Max. fluid temp.: 160°F
- Max. solids: ¼" dia.
- Suction lift: 25 ft.
- 115/230V

All require a balanced impeller keyed to the motor shaft; replaceable silicon wear ring and shaft sleeve help extend pump life. Pull-out back and tapped connections allow easy maintenance. Required check valve (sold separately) retains liquid for fast, reliable priming and automatic repriming if suction is lost. Use in high-flow applications such as lawn irrigation, dewatering, liquid transfer, and plot irrigation.

HP	Inlet	Outlet	Best Efficiency Range GPM @ Head	Max. Head	ODP, 1 PHASE, 115/208-230 Item No.	TEFC, 1 PHASE, 115/230 Item No.	ODP, 3 PHASE, 208-230/460 Item No.	TEFC, 3 PHASE, 208-230/460 Item No.
3	2" NPT	1½" NPT	80 to 120 gpm @ 108 to 75 ft.	138 ft.	**1XLZ8**	**1XLZ9** **	—	**49UU56**
3	2½" NPT	2" NPT	100 to 140 gpm @ 90 to 69 ft.	105 ft.	**1XLY9**	**1XLZ1** **	—	**49UU53**
5	2½" NPT	2" NPT	100 to 140 gpm @ 138 to 104 ft.	165 ft.	**1XMA3** *	**1XMA4** †	**49UU57**	**49UU58**
5	3" NPT	2½" NPT	120 to 160 gpm @ 120 to 90 ft.	148 ft.	**1XLZ4** *	**1XLZ5** †	**49UU54**	**49UU55**

** 230V only. † TEFC 230V only. ** TEFC 115/230V only.*

Fits Pump	Item No.
Check Valve, Flanged	
2" Inlets	**1XMA7**
2 ½" Inlets	**1XMA8**
3" Inlets	**1XMA9**

Transfer Pumps

- Max. fluid temp.: 180°F
- Suction lift: 25 ft.
- 115/230V
- ODP, 3450 rpm motors
- NEMA 56Y mounting face
- Self-priming

Centrifugal pumps have a semi-open impeller that resists clogging. Discharge rotates in 90° increments. Mechanical seal with 304 stainless steel, Viton®, and carbon/ceramic parts. Drain plug is easily accessible. Motors are capacitor start/capacitor run, continuous duty rated, with ball bearings and stainless steel motor shafts.

Cast-Iron—Cast-iron housing and impeller. Suitable for chemical transfer; not for use with perchloroethylene or trichloroethylene.

Aluminum—Aluminum housing and impeller. Suitable for chemical transfer; not for use with perchloroethylene or trichloroethylene.

Stainless Steel—Stainless steel housing and impeller. Suitable for transferring perchloroethylene and other nonflammable liquids.


No. 4YKP1

HP	Phase	Amps	Inlet	Outlet	GPM of Water @ Total ft. of Head+ 5	10	15	20	30	40	50	L	W	H	Item No.
Cast-Iron Housing															
⅓	1	7.0/3.5	1½" NPT	1½" NPT	35	33	21	17	6	—	—	16¾"	7⁵⁄₁₆"	10"	**4YKP5**
½	1	8.6/4.3	1½" NPT	1½" NPT	47	43	37	27	10	—	—	16¾"	7⁵⁄₁₆"	10"	**4YKP6**
¾	1	9.0/4.5	1½" NPT	1½" NPT	60	55	51	46	29	9	—	17"	7⁵⁄₁₆"	10"	**4YKP7**
1	1	14.6/7.3	1½" NPT	1½" NPT	69	65	61	55	43	22	—	17"	7⁵⁄₁₆"	10"	**4YKP8**
1½	1	16.9/8.6	1½" NPT	1½" NPT	86	83	80	75	66	52	32	18⅞"	7⁵⁄₁₆"	10"	**4YKP9**
Aluminum Housing															
⅓	1	7.0/3.5	1½" NPT	1½" NPT	35	33	21	17	6	—	—	16¹¹⁄₁₆"	7⁵⁄₁₆"	10"	**6GPG4**
½	1	8.6/4.3	1½" NPT	1½" NPT	47	43	37	27	10	—	—	16¾"	7⁵⁄₁₆"	10"	**4YKP1**
¾	1	9.0/4.5	1½" NPT	1½" NPT	60	55	51	46	29	9	—	17"	7⁵⁄₁₆"	10"	**4YKP2**
1	1	14.6/7.3	1½" NPT	1½" NPT	69	65	61	55	43	22	—	17"	7⁵⁄₁₆"	10"	**4YKP3**
Stainless Steel Housing															
⅓	1	7.0/3.5	1½" NPT	1½" NPT	35	33	21	17	6	—	—	16¹¹⁄₁₆"	7⁵⁄₁₆"	10"	**6GPG3**
½	1	8.6/4.3	1½" NPT	1½" NPT	47	43	37	27	10	—	—	16⁵⁄₁₆"	7⁵⁄₁₆"	10"	**4YKN6**
1	1	14.6/7.3	1½" NPT	1½" NPT	69	65	61	55	43	22	—	16¾"	7⁵⁄₁₆"	10"	**4YKN8**
1½	1	16.9/8.6	1½" NPT	1½" NPT	86	83	80	75	66	52	32	18½"	7⁵⁄₁₆"	10"	**4YKN9**

+ To convert to psi, divide total feet of head by 2.31.

Chemical-Resistant Centrifugal Pumps

- Motors are 3450 rpm with NEMA 56J frame
- Max. temp.: 140°F polypropylene, 180°F Noryl®
- Max. viscosity: 100 SSU
- 1½" ports

Close-coupled pumps feature continuous-duty motors and resist most acids, alkalis, and inorganic solvents. Pump housing has seal flush ports to decontaminate the seal and seat elastomers.

Note: 3-phase units require a pump control box, sold separately.


No. 2YER5


No. 2YEU3


No. 2YEW1


No. 3ACF3

WETTED MATERIALS

Polypropylene—Glass-filled polypropylene housing and impeller. Buna N, stainless steel, and carbon/ceramic mechanical seals.

Noryl—Glass-filled Noryl housing and impeller, with Viton®, Noryl, and carbon/ceramic mechanical seals.

Seal Material	For Use With	Max. Temp. (°F)	Min. Temp. (°F)	Item No.
Replacement Pump Shaft Seal				
Viton, Carbon, Ceramic	Poly Pumps	180	40	**3ACF3**
Viton, Silicon Carbide	Poly Pumps	180	40	**3ACF2**
Viton, Carbon, Ceramic	Noryl Pumps	180	40	**3ACE9**
Viton, Silicon Carbide	Noryl Pumps	180	40	**3ACF1**

HP	Phase	Max. GPM @ Head	Best Efficiency GPM @ Head*	Min. GPM @ Head	Max. Head	POLYPROPYLENE HOUSING, W/MOTOR Motor Encl.	Voltage	Amps	Item No.	NORYL HOUSING, W/MOTOR Motor Encl.	Voltage	Amps	Item No.
⅓	1	22 gpm @ 10 ft.	18 gpm @ 30 ft.	2 gpm @ 60 ft.	62 ft.	ODP	115/230	7.5/3.8	**2YER2**	TEFC	115/208-230	8.0/3.5-4.0	**2YEV4**
½	1	26 gpm @ 10 ft.	20 gpm @ 35 ft.	9 gpm @ 60 ft.	68 ft.	ODP	115/230	8.4/4.8	**2YER3**	TEFC	115/208-230	8.6/4.0-4.3	**2YEV5**
	3	26 gpm @ 10 ft.	20 gpm @ 35 ft.	9 gpm @ 60 ft.	68 ft.	ODP	208-230/460	1.8-1.7/0.9	**2YER4**	TEFC	208-230/460	1.7-1.6/0.8	**2YEV6**
¾	1	37 gpm @ 10 ft.	24 gpm @ 41 ft.	6 gpm @ 65 ft.	72 ft.	ODP	115/230	11.3/5.6	**2YER5**	TEFC	115/208-230	10.7/5.2-5.3	**2YEV7**
	3	37 gpm @ 10 ft.	24 gpm @ 41 ft.	6 gpm @ 65 ft.	72 ft.	ODP	208-230/460	2.7-2.5/1.2	**2YER6**	TEFC	208-230/460	2.5-2.4/1.2	**2YEV8**
1	1	55 gpm @ 10 ft.	38 gpm @ 50 ft.	14 gpm @ 70 ft.	79 ft.	ODP	115/230	14.4/7.2	**2YER7**	TEFC	115/208-230	12.2/6.3-6.1	**2YEV9**
	3	55 gpm @ 10 ft.	38 gpm @ 50 ft.	14 gpm @ 70 ft.	79 ft.	ODP	208-230/460	3.7-3.2/1.6	**2YER8**	TEFC	208-230/460	3.3-3.2/1.6	**2YEW1**
1½	1	85 gpm @ 10 ft.	55 gpm @ 55 ft.	21 gpm @ 80 ft.	84 ft.	ODP	115/208-230	17.0/9.0-8.5	**2YER9**	TEFC	115/208-230	13.5/7.6-6.7	**2YEW2**
	3	85 gpm @ 10 ft.	55 gpm @ 55 ft.	21 gpm @ 80 ft.	84 ft.	ODP	208-230/460	4.4-3.9/2.0	**2YEU1**	TEFC	208-230/460	4.5-4.6/2.3	**2YEW3**
2	1	96 gpm @ 10 ft.	58 gpm @ 60 ft.	31 gpm @ 80 ft.	91 ft.	TEFC	115/208-230	16.6/9.4-8.3	**2YEU2**	TEFC	115/208-230	16.6/9.4-8.3	**2YEW4**
	3	96 gpm @ 10 ft.	58 gpm @ 60 ft.	31 gpm @ 80 ft.	91 ft.	TEFC	208-230/460	6.0-5.8/2.9	**2YEU3**	TEFC	208-230/460	6.0-5.8/2.9	**2YEW5**
3	1	123 gpm @ 10 ft.	80 gpm @ 60 ft.	48 gpm @ 80 ft.	95 ft.	TEFC	230	12.5	**2YEU4**	TEFC	230	12.5	**2YEW6**
	3	123 gpm @ 10 ft.	80 gpm @ 60 ft.	48 gpm @ 80 ft.	95 ft.	TEFC	208-230/460	8.3-7.6/3.8	**2YEU5**	TEFC	208-230/460	8.3-7.6/3.8	**2YEW7**

** Use "Best gpm @ Head (ft.)" for optimum performance. † Suggested HP for pump heads at stated performance.*

HP Req.	Housing Material	Item No.
Pedestal Pump, No Motor†		
¾	Polypropylene	**2YEU8**
1		**2YEU9**
1½		**2YEV1**
2		**2YEV2**
3		**2YEV3**
½	Noryl	**2YEW9**
1		**2YEX2**
1½		**2YEX3**
3		**2YEX5**

General Utility Pumps

MOYNO®

- Cast-iron housing
- Mechanical seal with carbon, ceramic, and nitrile parts
- Max. liquid temp.: 180°F
- Max. viscosity: 20,000cP

Compact pumps have a rugged design for pulsation-free transfer of slurries and fluids. Models feature a rubber stator for quieter operation. You can easily calibrate the pump since flow is consistent and proportionate to the pump speed. Allow suction lifts up to 26 ft. Ideal for transferring abrasive slurries, coatings, feed additives, industrial waste, lubricants, and swimming pool water.


No. 30EK54


No. 30EK50


No. 30EK58

Min. RPM	Max. RPM	Req. HP @ Higher RPM	Flow Rate @ Min. RPM and 0 PSI	Max. RPM and 0 PSI	Min. RPM and 90 PSI	Max. RPM and 90 PSI	Inlet/Outlet (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
115/230VAC												
—	1750	½	0.471 gpm	4.7 gpm	0.21 gpm	2.45 gpm	¾ NPT, ¾ NPT	19²³⁄₃₂	6½	7⅞	33259	**30EK54**
		½	0.835 gpm	9.4 gpm	—	—	¾ NPT, ¾ NPT	19²³⁄₃₂	6½	7⅞	33359	**30EK55**
		½	1.483 gpm	15.0 gpm	—	—	¾ NPT, ¾ NPT	19²³⁄₃₂	6½	7⅞	34459	**30EK56**
208/230/440VAC												
—	1750	1¼	2.139 gpm	24.0 gpm	—	—	1½ NPT, 1¼ NPT	25³⁄₃₂	6	8³⁄₁₆	35651	**30EK57**
Non-Motorized												
150	1750	½	0.471 gpm	4.7 gpm	0.21 gpm	2.45 gpm	¾ NPT, ¾ NPT	12⅝	4¾	5⅛	33201	**30EK50**
		½	0.835 gpm	9.4 gpm	—	—	¾ NPT, ¾ NPT	12⅝	4¾	5⅛	33301	**30EK51**
		½	1.483 gpm	15.0 gpm	—	—	¾ NPT, ¾ NPT	12⅝	4¾	5⅛	34401	**30EK52**
		1¼	2.139 gpm	24.0 gpm	—	—	1½ NPT, 1¼ NPT	17½	7⅜	8¹⁄₁₆	35601	**30EK53**

Includes	For Use With Grainger Item Number	Mfr. Model	Item No.
Pump Repair Kits			
Stator, Flexible Joint, Seal	30EK50, 30EK54	3119027000	**30EK58**
	30EK51, 30EK55	3119029000	**30EK59**
	30EK52, 30EK56	3119031000	**30EK60**
	30EK53	3119033000	**30EK61**
Stator, Flexible Joint, Seal, Pin for Motor, Pin for Rotor	30EK57	3119123000	**30EK62**



No. 4JMV2

High-Volume Chemical-Resistant Centrifugal Pumps and Pump Heads

- Max. case working pressure: 150 psi
- Temp. range: 40° to 200°F
- Max. viscosity: 31 SSU
- Discharge ports rotate in 90° increments

Designed for continuous-duty high-flow applications, including chemical processing, liquid transfer, cooling, and circulating. Pumps are straight centrifugal and feature a 304 stainless steel impeller and impeller nut. Other wetted materials include carbon, ceramic, and Viton®. 1-phase motors are capacitor-start, with automatic thermal reset protection and ball bearings. Pump heads require a NEMA 56J motor or 56J pump pedestal with appropriate motor.

Notes: Not recommended for trichloroethylene.

3-phase units require a pump control box, sold separately.

HP	Voltage	Amps	Phase	Inlet	Outlet	Max. GPM @ Head	Best Efficiency GPM @ Head*	Min. GPM @ Head	Max. Head†	Item No.
304 Stainless Steel Housing, ODP										
⅓	115/230	6.0/3.0	1	¾" NPT	½" NPT	21 gpm @ 5 ft.	10 gpm @ 26 ft.	1 gpm @ 40 ft.	48 ft.	**4JMV2**
½	115/230	7.2/3.6	1	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**4JMV3**
	230/460	2.6/1.3	3	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**4JMV4**
¾	115/230	8.2/4.1	1	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**4JMV5**
	230/460	3.0/1.5	3	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**4JMV6**
1	115/230	14.0/7.0	1	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**4JMV7**
	230/460	4.8/2.4	3	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**4JMV8**
1½	115/230	17.0/8.5	1	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**4JMV9**
	230/460	5.8/2.9	3	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**4JMW1**
2	115/230	21.6/10.8	1	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**4JMW2**
	230/460	8.4/4.2	3	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**4JMW3**
3	230	15	1	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**4JMW4**
	230/460	11.6/5.8	3	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**4JMW5**
304 Stainless Steel Housing, TEFC										
⅓	115/230	6.8/3.4	1	¾" NPT	½" NPT	21 gpm @ 5 ft.	10 gpm @ 26 ft.	1 gpm @ 40 ft.	48 ft.	**4JMW6**
½	115/230	7.5/3.8	1	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**4JMW7**
	208-230/460	3.0-2.8/1.4	3	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**4JMW8** †
¾	115/230	9.0/4.5	1	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**4JMW9**
	208-230/460	3.8-3.4/1.7	3	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**4JMX1** †
1	115/230	13.0/6.5	1	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**4JMX2**
	208-230/460	5.3-5.0/2.5	3	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**4JMX3**
1½	115/230	15.0/7.5	1	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**4JMX4**
	208-230/460	7.0-6.6/3.3	3	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**4JMX5**
2	115/230	18.0/9.0	1	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**4JMX6**
	208-230/460	9.6-9.2/4.6	3	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**4JMX7**
3	208-230/460	11.5-10.8/5.4	3	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**4JMX9**
	230	14.5	1	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**4JMX8**
316 Stainless Steel Housing, TEFC										
⅓	115/230	6.8/3.4	1	¾" NPT	½" NPT	21 gpm @ 5 ft.	10 gpm @ 26 ft.	1 gpm @ 40 ft.	48 ft.	**5WXR9**
½	115/230	7.5/3.8	1	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**5WXT0**
	208-230/460	3.0-2.8/1.4	3	¾" NPT	¾" NPT	38 gpm @ 5 ft.	28 gpm @ 22 ft.	5 gpm @ 40 ft.	50 ft.	**5WXT1**
¾	115/230	9.0/4.5	1	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**5WXT2**
	208-230/460	3.8-3.4/1.7	3	1¼" NPT	¾" NPT	58 gpm @ 5 ft.	30 gpm @ 41 ft.	3 gpm @ 60 ft.	62 ft.	**5WXT3**
1	115/230	13.0/6.5	1	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**5WXT4**
	208-230/460	5.3-5.0/2.5	3	1½" NPT	1¼" NPT	90 gpm @ 5 ft.	48 gpm @ 40 ft.	8 gpm @ 60 ft.	65 ft.	**5WXT5**
1½	115/230	15.0/7.5	1	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**5WXT6**
	208-230/460	7.0-6.6/3.3	3	1½" NPT	1¼" NPT	116 gpm @ 5 ft.	50 gpm @ 48 ft.	13 gpm @ 60 ft.	65 ft.	**5WXT7**
2	115/230	18.0/9.0	1	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**5WXT8**
	208-230/460	9.6-9.2/4.6	3	2" NPT	1½" NPT	130 gpm @ 5 ft.	55 gpm @ 50 ft.	24 gpm @ 60 ft.	68 ft.	**5WXT9**
3	208-230/460	11.5-10.8/5.4	3	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**5WXU1**
	230	14.5	1	2" NPT	1½" NPT	150 gpm @ 5 ft.	90 gpm @ 48 ft.	38 gpm @ 70 ft.	81 ft.	**5WXU0**

HP			Best Efficiency	Max.	Item
Req.	Inlet	Outlet	GPM @ Head*	Head†	No.
Pump Heads, 304 SS Housing					
⅓	¾"	½"	10 @ 26 ft.	48	**4JMY1**
½	¾"	¾"	28 @ 22 ft.	50	**4JMY2**
¾	1¼"	¾"	30 @ 41 ft.	62	**4JMY3**
1	1½"	1¼"	40 @ 40 ft.	65	**4JMY4**
1½	1½"	1¼"	50 @ 48 ft.	65	**4JMY5**
2	2"	1½"	55 @ 50 ft.	68	**4JMY6**
3	2"	1½"	90 @ 48 ft.	81	**4JMY7**

For Use With	Seal Material	Item No.
Pump Shaft Seal Kit		
4JMV2-4JMV9, 4JMW1-4JMW9, 4JMX1-4JMX9	Viton, Carbon, Ceramic	**4JMY8**

**** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.***



MD Series
No. 2P875



MD-SC Series
No. 4RL30



MD-HC Series
No. 2P043

LittleGIANT®

Magnetic Drive Corrosives-Handling Pumps

- Max. specific gravity: 1.1
- Max. viscosity: 100 SSU

Eliminate seal-caused friction loss, wear, contamination, and leakage. All are nonsubmersible, except No. 2P875 can be used submersed or inline. Mount horizontally.

MD Series—For Mildly Corrosive Chemicals—Pumps handle mild acids and alkalis such as photographic and plating solutions. Glass-filled polypropylene pump housing and impeller. Nitrile O-ring gasket. 3-ft., 3-conductor SJT cord. No. 2P875 has epoxy-encapsulated motor for submersible use.

MD-SC Series—For Semicorrosive Chemicals—Pumps handle mild acids, mild alkalis, and saltwater. Polypropylene pump housing and impeller, nitrile O-ring gasket. Encapsulated ceramic magnet. Ceramic shaft and thrust bearings. All have 6-ft., 3-conductor SJT cords with 3-prong plugs. Open-fan-cooled motors, except No. 4RL36 has epoxy-encapsulated motor for submersible use.

MD-HC Series—For Highly Corrosive Chemicals—Pumps handle liquids such as photographic and plating solutions, acids, alkalis, brines, and distilled water. Ryton® pump housing and impeller, Viton® O-ring gasket, and encapsulated ceramic magnet. Motors have 6-ft., 3-conductor SJT cords with 3-prong plugs, except Nos. 4RL34, 4RL35, and 2P044 must be field-wired.

HP	Voltage	Inlet	Outlet	Motor Encl.	GPM of Water @ Ft. of Head+ 3	9	Max. Head	Temp. @ 0 psig	Mfr. Model	Item No.
MD Series—For Mildly Corrosive Chemicals										
1/200	115	½" O.D.	½" O.D.	Open	2.1	—	5.5 ft.	150°F	1-AA-MD	**2P037**
1/200	115	½" O.D.	½" O.D.	Sub	1.75	—	5 ft.	150°F	1EUAA-MD	**2P875**
1/50	115	⅜" O.D.	⅜" O.D.	OPFC	5.0	—	7 ft.	150°F	3X-MDX	**2P580**
1/25	115	⅜" O.D.	⅜" O.D.	OPFC	7.0	6.0	19 ft.	150°F	3-MDX	**2P579**
MD-SC Series—For Semicorrosive Chemicals										
1/35	115	½" MPT	¼" MPT	Sub	5.0	2.7	12.8 ft.	150°F	PE-1.5-MDI-SC	**4RL36**
1/25	115	½" FPT	½" MPT	OPFC	7.7	5.5	14.6 ft.	150°F	2-MD-SC	**4RL30**
1/12	115	¾" FPT	½" MPT	OPFC	11.8	10	21.9 ft.	150°F	3-MD-SC	**2P038**
1/10	115	1" FPT	½" FPT	OPFC	13.5	11.8	24.3 ft.	150°F	4-MD-SC	**2P041**
⅛	115	1" FPT	½" MPT	OPFC	16.5	14.0	27.5 ft.	150°F	5MD-SC	**2P042**
MD-HC Series—For Highly Corrosive Chemicals										
1/30	115	½" FPT	½" MPT	OPFC	7.5	5.5	14.6 ft.	180°F	2-MD-HC	**4RL31**
1/25	115	½" MPT	½" MPT	OPFC	7.6	5.9	16.2 ft.	180°F	3-MD-MT-HC	**2P039**
1/25	115	½" FPT	½" MPT	TEFC	9.1	6.5	16.3 ft.	180°F	TE-3-MD-HC	**2P040**
1/10	115	1" FPT	½" MPT	TEFC	13.2	11.8	24.3 ft.	180°F	TE-4-MD-HC	**4RL32**
⅛	115/230	1" FPT	½" MPT	TEFC	19.2	17.0	29.3 ft.	180°F	TE-5-MD-HC	**2P043**
⅓	115/230	1" FPT	¾" MPT	TEFC	—	30.5	40.5 ft.	180°F	TE-5.5-MD-HC	**4RL34**
½	115/230	1" FPT	¾" MPT	TEFC	—	36.2	51 ft.	180°F	TE-6-MD-HC	**4RL35**
¾	115/230	1½" FNPT	1" MPT	TEFC	51.0	46.5	58.9 ft.	180°F	TE-7-MD-HC	**2P044**

+ To convert to psi, divide total feet of head by 2.31.

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

FINISH THOMPSON INC.

Magnetic Drive, Corrosives-Handling Pumps

- TEFC motors
- Max. temp.: 180°F (polypropylene); 220°F (PVDF)

Sealless mag-drive design eliminates the need for mechanical seals; prevents shaft leaks and reduces maintenance costs.

Polypropylene units feature polypropylene impellers and Viton® O-rings. Carbon bushings permit extended run-dry capability.

PVDF units mount horizontally and feature PVDF impellers, Viton O-rings, and PTFE bushings. Not capable of running dry.



No. 3AZN4



No. 3AZL7



No. 3AZR3

FLOODED SUCTION

Close-coupled to standard NEMA motors for installation flexibility. High-efficiency impeller design allows a smaller pump to be used in many applications. Max. viscosity: 100 cps. 5-yr. warranty.

SELF-PRIMING

Can self-prime to 25 ft. of suction lift, based upon 1.0 of specific gravity. Max. viscosity: 50 cps.

HP	Inlet	Outlet	GPM of Water @ 3 ft. of Head+	GPM of Water @ 24 ft. of Head+	Max. Head	Max. Specific Gravity	Series	POLYPROPYLENE HOUSING 115V Item No.	POLYPROPYLENE HOUSING 115/208-230V Item No.	POLYPROPYLENE HOUSING 208-230/460V Item No.	PVDF HOUSING 115V Item No.	PVDF HOUSING 115/208-230V Item No.	PVDF HOUSING 208-230/460V Item No.
Flooded Suction													
⅛	1" FNPT	½" MNPT	15	—	21 ft.	1.2	DB3	5FZV9	—	—	5FZW2	—	—
¼	1" FNPT	½" MNPT	18	8	29 ft.	1.2	DB4	5FZW0	—	—	5FZW3	—	—
¼	1" FNPT	½" MNPT	19.5	12.5	35 ft.	1.2	DB5	5FZW1	—	—	5FZW4	—	—
⅓	1" FNPT	1" MNPT	39	23	33 ft.	1.2	DB6	—	3AZN4	3AZN5	—	—	—
½	1" FNPT	1" MNPT	42	33	53 ft.	1.2	DB6H	—	3AZN6	—	—	—	—
½	1" FNPT	¾" MNPT	30	17	29 ft.	1.8	DB5.5	15R528	—	—	15R532	—	—
Self-Priming													
1	1" FNPT	1" MNPT	55	46	50 ft.	1.2	SP10	—	3AZL5	3AZL6	—	3AZL9	3AZN1
2	1½" FNPT	1½" MNPT	105	100	68 ft.	1.2	SP11	—	—	3AZL7	—	—	3AZN2
3	1½" FNPT	1½" MNPT	120	120	90 ft.	1.2	SP15	—	—	3AZL8	—	—	3AZN3
Straight													
½	1" FNPT	1" MNPT	42	33	53 ft.	1.2	DB6H	—	—	3AZN7	—	—	—
½	1½" FNPT	1½" MNPT	69	50	33 ft.	1.2	DB7	—	3AZN8	3AZN9	—	—	—
½	1" FNPT	1" MNPT	39	23	33 ft.	1.6	DB6	—	—	—	—	3AZR1	3AZR2
¾	1½" FNPT	1" MNPT	61	50	45 ft.	1.5	DB8	—	3AZP1	3AZP2	—	3AZR5	3AZR6
¾	1" FNPT	1" MNPT	46	42	67 ft.	1.2	DB9P	—	3AZP3	3AZP4	—	—	—
¾	1½" FNPT	1½" MNPT	69	50	33 ft.	1.6	DB7	—	—	—	—	3AZR3	3AZR4
1	1½" FNPT	1½" MNPT	95	85	52 ft.	1.1	DB10	—	3AZP5	3AZP6	—	—	—
1½	1½" FNPT	1½" MNPT	95	85	52 ft.	1.5	DB10	—	—	—	—	—	3AZR7
2	2" FNPT	1½" MNPT	115	115	73 ft.	1.2	DB11	—	—	3AZP7	—	—	3AZR8
3	2" FNPT	1½" MNPT	130	130	96 ft.	1.1	DB15	—	—	3AZP8	—	—	—
3	2" FNPT	1½" MNPT	128	128	90 ft.	1.2	DB15	—	—	—	—	—	3AZR9
10	2" FNPT	2" MNPT	202	202	158 ft.	1.2	DB22	—	—	3AZP9	—	—	3AZT1

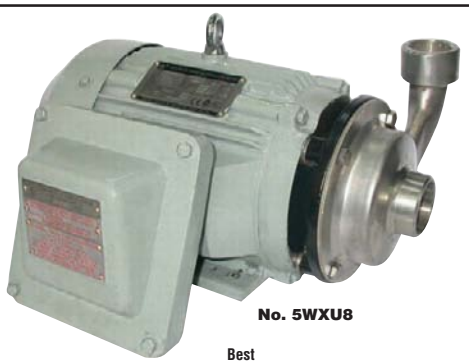
+ To convert to psi, divide total feet of head by 2.31.

Dayton

Chemical-Resistant, Hazardous Location Pumps

- Stainless steel impeller and shaft
- Mechanical shaft seal with Viton® and carbon/ceramic parts
- Max. liquid temp.: 250°F

Pumps have a continuous-duty motor to handle liquid transfer, circulation, chemical processing, cooling, and pressure boosting applications. Discharge can be rotated 360° in 90° increments. UL Listed for Class I Groups C and D; Class II Groups E, F, and G.



No. 5WXU8

HP	Phase	Voltage	Amps	Inlet	Outlet	GPM of Water @ 20 ft. of Head†	GPM of Water @ 70 ft. of Head†	Best Efficiency GPM @ Head*	Motor Encl.	Item No.
316 Stainless Steel Housing										
1½	3	208-230/460	4.09-3.72/1.86	1½" NPT	1¼" NPT	88	3	42 @ 50 ft.	TEFC	5WXU8
2	3	208-230/460	5.06-4.60/2.30	2" NPT	1½" NPT	106	2	49 @ 50 ft.	TEFC	5WXU9
3	3	208-230/460	7.28-6.62/3.31	2" NPT	1½" NPT	122	42	75 @ 60 ft.	TEFC	5WXV0

** Use "Best Efficiency gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

For more pumps, go to Grainger.com® and search for multistage booster pumps.

Booster Pump Selection Guide

(1) Determine pressure boost required above existing pressure.
(2) Determine gpm to be pumped.
(3) Read across top of specification column "GPM of Water @ Discharge Pressure in psi+" for pressure boost required.
(4) Read down column to gpm required.

Example: You have 20 psi supply. You require 40 psi at 10 gpm. Your boost requirement is 20 psi.
Read across pressure boost column to 20 psi. Read down vertical column to gallons required (10 gpm) or next larger size.
Correct pumps are Nos. 45MW68, 45MW69, 45MW85, and 45MW86.


No. 45MW84


No. 22W709

Multistage Booster Pumps

- Max. fluid temp.: 140°F
- Max. case pressure: 300 psi
- 65°C temp. rise motors
- ODP motor enclosure

Use to increase pressure from city mains, or pump water from cisterns and private ponds to ensure the proper operation of filtration equipment.

DAYTON®

The multistage design helps provide steady, quiet, and vibration-free operation. Cast-iron housing is ideal for general service, stainless steel for filtration applications. Feature an O-ring casing seal for reliable, high-pressure sealing with easy disassembly for repair or maintenance. Diffusers are glass-filled engineered composite material with a fixed impeller design and high resistance to abrasion and corrosion.

Bowls have 300 stainless steel rabbit lock for positive alignment with no gaskets needed. Mechanical seal with carbon/ceramic and Viton® parts; stainless steel spring. Pumps are self-priming to 10 ft. when the pump housing and suction line is filled with water and a foot valve is used. UL and C-UL Listed.

FLINT & WALLING®

Pumps feature continuous-duty dual-voltage motors with shielded ball bearings. Replaceable pump cartridge has 304 SS radial bearing and Noryl® and Delrin® impellers and diffusers. 1-phase units have thermally protected capacitor-start motors. Cast-iron housings feature cast-iron suction and discharge; mechanical seal uses Buna N and carbon/silicon. Stainless steel housings feature 304 SS suction and discharge. All are suitable for pressure boosting, pressure cleaning, mist systems, evaporative cooling, reverse osmosis, and water circulation. CSA Certified to UL standards for U.S. and Canada.

For Use With Grainger No.	Item No.
Dayton, Booster Pump Replacement Parts	
Booster Cartridge Assemblies	
45MW66	**41TK76**
45MW67	**41TK77**
45MW68, 45MW69	**41TK78**
45MW72, 45MW73	**41TK80**
45MW74, 45MW75	**41TK81**
45MW78, 45MW79	**41TK83**
45MW80, 45MW81	**41TK84**
45MW82, 45MW83	**41TK85**
45MW84	**41TK86**
45MW85, 45MW86	**41TK87**
45MW87, 45MW88	**41TK88**
45MW89, 45MW90	**41TK89**
45MW91, 45MW92	**41TK90**
45MW93, 45MW94	**41TK91**
O-Ring, Buna	
45MW66 to 45MW94	**41TK92**
O-Ring, Viton	
45MW66 to 45MW94	**41TK93**
Mechanical Seals, Buna	
45MW66 to 45MW94	**41TK94**
Mechanical Seals, Viton	
45MW66 to 45MW94	**41TK95**

No. of Stages	HP	Voltage	Amps	Phase	Inlet Size	Outlet Size	Housing Material*	GPM of Water @ Discharge Pressure in psi+ 10	20	40	60	80	100	120	140	Max. Pressure	Item No.
Dayton																	
7	⅓	120/240VAC	7.5/3.4	1	¾" NPT	¾" NPT	CI	9.3	7.8	6.8	5.1	2.9	—	—	—	90 psi	**45MW66**
8	½	120/240VAC	7.8/3.9	1	¾" NPT	¾" NPT	CI	9.6	8	7	5.7	4	2	—	—	120 psi	**45MW67**
	½	120/240VAC	7.8/3.9	1	¾" NPT	¾" NPT	SS	9.6	8	7	5.7	4	2	—	—	120 psi	**45MW84**
9	¾	120/240VAC	11.1/5.5	1	¾" NPT	¾" NPT	CI	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW68**
	¾	120/240VAC	11.1/5.5	1	¾" NPT	¾" NPT	SS	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW85**
	¾	208 to 240/480VAC	3.9-3.6/1.8	3	¾" NPT	¾" NPT	CI	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW69**
	¾	208 to 240/480VAC	3.9-3.6/1.8	3	¾" NPT	¾" NPT	SS	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW86**
	2	208 to 240/480VAC	7.1-6.8/3.4	3	1" NPT	1" NPT	CI	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW79**
	2	208 to 240/480VAC	7.1-6.8/3.4	3	1" NPT	1" NPT	SS	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW92**
	2	240VAC	10.2	1	1" NPT	1" NPT	CI	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW78**
	2	240VAC	10.2	1	1" NPT	1" NPT	SS	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW91**
	3	208 to 240/480VAC	10.1-9.2/4.6	3	1" NPT	1" NPT	CI	44.0	43.1	41.8	37.9	31.1	23.9	—	—	120 psi	**45MW81**
	3	240VAC	14.5	1	1" NPT	1" NPT	CI	44.0	43.1	41.8	37.9	31.1	23.9	—	—	120 psi	**45MW80**
12	1	120/240VAC	13/6.3	1	¾" NPT	¾" NPT	CI	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW72**
	1	120/240VAC	13/6.3	1	¾" NPT	¾" NPT	SS	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW87**
	1	208 to 240/480VAC	4.3-4/2.0	3	¾" NPT	¾" NPT	CI	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW73**
	1	208 to 240/480VAC	4.3-4/2.0	3	¾" NPT	¾" NPT	SS	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW88**
13	1½	120/240VAC	18.4/8.4	1	¾" NPT	¾" NPT	CI	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW74**
	1½	120/240VAC	18.4/8.4	1	¾" NPT	¾" NPT	SS	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW89**
	1½	208 to 240/480VAC	5.7-5.4/2.7	3	¾" NPT	¾" NPT	CI	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW75**
	1½	208 to 240/480VAC	5.7-5.4/2.7	3	¾" NPT	¾" NPT	SS	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW90**
	3	208 to 240/480VAC	10.1-9.2/4.6	3	1" NPT	1" NPT	SS	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW94**
	3	240VAC	10.1-9.2/4.6	1	1" NPT	1" NPT	CI	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW82**
	3	240VAC	14.5	1	1" NPT	1" NPT	CI	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW83**
	3	240VAC	14.5	1	1" NPT	1" NPT	SS	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW93**
Flint & Walling																	
8	⅓	120/240VAC	8.6/4.3	1	¾" NPT	¾" NPT	CI	10.2	9.6	8.3	6.5	4.3	—	—	—	96 psi	**22W709**
12	½	120/240VAC	13.0/6.5	1	¾" NPT	¾" NPT	CI	10	9.6	8.3	7.1	6	4	2.3	—	132 psi	**22W710**
	¾	120/240VAC	14.0/7.0	1	¾" NPT	¾" NPT	CI	14	13.4	12.2	10.9	9.5	8.9	7	4.6	158 psi	**22W711**
14	1	120/240VAC	18.0/9.0	1	¾" NPT	¾" NPT	CI	†	†	14.5	13.4	12.3	11.2	9.8	8	183 psi	**22W715**
	3	208 to 240/480VAC	9.8/4.9	3	1" NPT	1" NPT	SS	†	†	†	33	31.5	29.8	27.9	25.6	22.8	187 psi	**22W737**
	3	240VAC	13.5	1	1" NPT	1" NPT	CI	†	†	†	33	31.5	29.8	27.9	25.6	22.8	187 psi	**22W723**
16	¾	120/240VAC	14.0/7.0	1	¾" NPT	¾" NPT	SS	9.9	9.5	8.7	8	7.3	6.5	5.8	4.8	175 psi	**22W713**
	1½	120/240VAC	21.0/10.5	1	¾" NPT	¾" NPT	CI	†	†	15	14.1	13.1	12.1	11	8.2	212 psi	**22W717**
	1½	208 to 240/480VAC	5.7/2.85	3	¾" NPT	¾" NPT	SS	†	†	15	14.1	13.1	12.1	11	8.2	212 psi	**22W733**

** CI = cast iron, SS = stainless steel. + To convert to feet of head, multiply psi by 2.31. † Operating pump in this pressure range is not recommended.*


No. 4HFA8

Pressure-Booster Pumps

- Max. case pressure: 75 psi
- TEFC motor enclosure

For boosting water pressure in a home water system. 2-stage impeller design increases pump performance. Stainless steel body and thermoplastic impellers resist corrosion. Suction lift up to 25 ft.

HP	Amps	Inlet	Outlet	GPM @ 15 psi	GPM @ 20 psi	GPM @ 25 psi	GPM @ 30 psi	GPM @ 35 psi	GPM @ 40 psi	Max. Pressure	Item No.
½	4.9	1"	1"	13.4	10.8	7.7	2.9	—	—	32.8 psi	**4HFA6**
¾	6.1	1"	1"	15.0	12.7	10.5	7.4	1.8	—	36.7 psi	**4HFA7**
1	7.7	1"	1"	18.5	16.5	14.4	12	9.1	5.3	45.3 psi	**4HFA8**

High-Volume Pressure Booster Pumps

Dayton®

- Max. fluid temp.: 200ºF
- Max. fluid viscosity: 31 SSU
- 65°C temp. rise motor
- ODP motor enclosure
- Cast-iron housing
- Inlet/outlet NPT: 1½" and 1¼"

Non-self-priming pumps can lift water up to 25 ft. with foot valve and pump suction line/piping filled with water. Continuous-duty motors can boost pressure for high-flow applications. 1-stage models include a discharge port on the pump housing that can be adjusted 90°. The 2- and 3-stage models are equipped for applications that require higher pressures. All pumps are UL and C-UL Listed.

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+ 15	20	25	30	35	Max. Pressure	Item No.
1	⅓	120/240VAC	7.5/3.4	1	38	28	20	—	—	27 psi	45MW11
	½	120/240VAC	7.8/3.9	1	48	40	27	—	—	30 psi	45MW12
	¾	120/240VAC	11.1/5.5	1	60	52	37	19	—	33 psi	45MW13
	¾	208 to 240/480VAC	3.9 to 3.6/1.8	3	60	52	37	19	—	33 psi	45MW14
	1	120/240VAC	13/6.3	1	66	59	52	44	35	42 psi	45MW16
	1	208 to 240/480VAC	4.3 to 4/2.0	3	66	59	52	44	35	42 psi	45MW17
	1½	208 to 240/480VAC	5.7 to 5.4/2.7	3	—	75	70	61	47	44 psi	45MW21
	1½	240VAC	8.4	1	—	75	70	61	47	44 psi	45MW20
	2	208 to 240/480VAC	7.1 to 6.8/3.4	3	—	—	78	65	55	42 psi	45MW25
	2	240VAC	10.2	1	—	—	78	65	55	42 psi	45MW24
2	1	120/240VAC	13/6.3	1	—	—	35	32	29	60 psi	45MW18
	1	208 to 240/480VAC	4.3 to 4/2.0	3	—	—	35	32	29	60 psi	45MW19
	1½	208 to 240/480VAC	5.7 to 5.4/2.7	3	—	—	37	35	32	65 psi	45MW23
	1½	240VAC	8.4	1	—	—	37	35	32	65 psi	45MW22
3	2	208 to 240/480VAC	7.1 to 6.8/3.4	3	—	—	37	34	33	88 psi	45MW29
	2	240VAC	10.2	1	—	—	37	34	33	88 psi	45MW28
	3	208 to 240/480VAC	10.1 to 9.2/4.6	3	—	—	41	39	38	92 psi	45MW31
	3	240VAC	14.5	1	—	—	41	39	38	92 psi	45MW30

+ To convert to feet of head, multiply psi by 2.31.



Description	For Use With Grainger Item Number	Item No.
Replacement Parts		
Mechanical Seal, Buna N	45MW11 to 45MW31	41TK74
Gasket, NBR		41TK75

Vertical Multistage Booster Pumps

Dayton®

- Max. fluid temp.: 248°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 362 psi
- 3450 rpm with NEMA 56C frame
- TEFC motor enclosure
- Inlet/Outlet Flanged: 1¼" and 1¼"

The inline design allows pump to also be installed horizontally in locations where suction and discharge connections are in the same plane and have the same pipe sizes. Closed stainless steel impeller with silicon carbide, stainless steel, and EPDM seals. Pumps feature high-pressure performance at low flow, making them suitable for use in pressure-boosting systems, boiler feed applications, ultra filtration and reverse osmosis systems. Compact size allows installation in tight spaces. Continuous-duty motor. Flange Kits are sold separately on Grainger.com® and include a gasket, companion flange, 4 nuts, and 4 bolts. No. 21R871 is for stainless steel models, No. 21R870 is for cast-iron models. All pumps are UL and C-UL Listed.

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+ 10	20	40	60	80	100	140	Max. Pressure	STAINLESS STEEL Item No.	CAST-IRON Item No.
2	½	120/208 to 240VAC	8.6/4.0-4.3	1	21	12	—	—	—	—	—	27 psi	5UWK1	—
	½	208 to 240/480VAC	1.7-1.6/0.8	3	21	12	—	—	—	—	—	27 psi	—	5UWH6
	¾	120/208 to 240VAC	10.7/5.2-5.3	1	40	20	—	—	—	—	—	27 psi	5UWK3	—
	¾	208 to 240/480VAC	2.5-2.4/1.2	3	40	20	—	—	—	—	—	27 psi	—	5UWH8
3	¾	120/208 to 240VAC	10.7/5.2-5.3	1	†	19	—	—	—	—	—	40 psi	5UWK5	5UWH9
5	1	120/208 to 240VAC	12.2/6.3-6.1	1	†	†	17	6	—	—	—	66 psi	5UWK7	—
	1	208 to 240/480VAC	3.3-3.2/1.6	3	†	†	17	6	—	—	—	66 psi	5UWL3	5UWJ7
	2	120/208 to 240VAC	16.6/9.4-8.3	1	†	†	35	14	—	—	—	70 psi	—	5UWJ5
8	1½	120/208 to 240VAC	13.5/7.6-6.7	1	†	†	22	19	14	5	—	108 psi	—	5UWJ2
	1½	208 to 240/480VAC	4.5-4.6/2.3	3	†	†	22	19	14	5	—	108 psi	5UWL4	5UWJ8
9	3	240VAC	12.5	1	25	†	42	35	Stainless Steel	25	—	127 psi	5UWL2	—
11	2	120/208 to 240VAC	16.6/9.4-8.3	1	†	†	†	22	19	16	4	148 psi	5UWK9	5UWJ3
	2	208 to 240/480VAC	6.0-5.8/2.9	3	†	†	†	22	19	16	4	148 psi	5UWL5	5UWJ9
17	3	208 to 240/480VAC	8.3-7.6/3.8	3	†	†	†	†	†	22	18	230 psi	5UWL6	5UWK0

+ To convert to feet of head, multiply psi by 2.31. † Items with this symbol are not recommended for operation in this range and may result in motor damage.



Horizontal Multistage Booster Pumps

Dayton®

- Max. fluid temp.: 194°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 150 psi
- 3450 rpm with NEMA 56J frame
- ODP motor enclosure, except Nos. 5UXF9 and 5UXG4 are TEFC
- Cast-iron housing

Feature continuous-duty motors for high-flow applications. Closed stainless steel impeller with carbon/ceramic, Buna N, and stainless steel seals. Pumps are not self-priming. Wet moving parts made of 304 stainless steel for longer life. Can be used with thin, clean, nonaggressive and nonexplosive liquids without solid particles or fibers. Suitable for increasing water pressure from city mains or private water systems, rinsing or spraying cooling equipment, and lawn sprinkling. UL and C-UL Listed.



No. of Stages	HP	Voltage	Amps	Phase	Inlet Size	Outlet Size	GPM of Water @ Discharge Pressure in PSI+ 10	20	40	60	80	100	Max. Pressure	Item No.
3	⅓	120/240VAC	7.5/3.8	1	¾" NPT	¾" NPT	20	18	12	—	—	—	58 psi	5UXF3
	1	120/240VAC	14.4/7.2	1	1¼" NPT	1" NPT	50	43	27	—	—	—	59 psi	5UXF6
	1	208 to 240/480VAC	3.7-3.2/1.6	3	1¼" NPT	1" NPT	50	43	27	—	—	—	59 psi	5UXG1
4	½	120/240VAC	8.4/4.8	1	¾" NPT	¾" NPT	20	19	16	10	—	—	77 psi	5UXF4
	1½	120/240VAC	17/8.5	1	1¼" NPT	1" NPT	52	48	38	23	1.9	—	81 psi	5UXF7
	1½	208 to 240/480VAC	4.4-3.9/2.0	3	1¼" NPT	1" NPT	52	48	38	23	1.9	—	81 psi	5UXG2
5	¾	120/240VAC	11.3/5.6	1	¾" NPT	¾" NPT	20	19.5	17.5	13.5	7	—	93 psi	5UXF5
	¾	208 to 240/480VAC	2.7-2.5/1.2	3	¾" NPT	¾" NPT	20	19.5	17.5	13.5	7	—	93 psi	5UXG0
	2	120/240VAC	20/10	1	1¼" NPT	1" NPT	53	49	41	31	17	—	100 psi	5UXF8
	2	208 to 240/480VAC	5.9-5.2/2.5	3	1¼" NPT	1" NPT	53	49	41	31	17	—	80 psi	5UXG3
6	3	208 to 240/480VAC	8.3-7.6/3.8	3	1¼" NPT	1" NPT	54	51	45	38	29	17	121 psi	5UXG4
	3	240VAC	12.5	1	1¼" NPT	1" NPT	54	51	45	38	29	17	121 psi	5UXF9

+ To convert to feet of head, multiply psi by 2.31.


No. 22W755

High-Volume, Straight Centrifugal Pumps

- Max. liquid temp.: 200°F
- ODP motor enclosure
- 1.25 motor service factor, except No. 22W755 is 1.3

2-stage, low-lead brass, closed impellers provide high pressure for water boosting applications. Cast-iron housing. Stainless steel, Buna N, and carbon/silicon carbide mechanical seals. Wetted materials are brass, Buna N, carbon, cast iron, silicon carbide, and stainless steel.

HP	Phase	Voltage	Amps	Inlet Size	Outlet Size	Frame	GPM @ 25 psi	GPM @ 50 psi	Item No.
1½	3	208 to 240/480VAC	5.7/2.85	1½" NPT	1¼" NPT	NEMA 56J	46	41	**22W755**
2	1	120/240VAC	25.0/12.5	1½" NPT	1¼" NPT	NEMA 56J	55	48	**22W757**
	3	208 to 240/480VAC	7.4/3.7	1½" NPT	1¼" NPT	NEMA 56J	53	35	**22W759**


No. 48GP22

Constant Pressure/Variable Speed Booster Pumps

Pumps include everything needed to maintain constant pressure in domestic water applications. Great in multibath homes, small apartments, condos, penthouses, residential irrigation systems, and restaurants. For indoor use.

3500-rpm motor in TEFC enclosure is rated for continuous duty; 50/60 Hz. Max. liquid temp.: 250°F. Stainless steel housing; seals are carbon/ceramic/rubber.

Pumps include tank and controller. Check valves, unions, ball valves, and breakers not included.

Note: Pumps need to operate at minimum gpm flow to maintain operation.

Stages	HP	Voltage	Phase	Amps	Inlet	Outlet	Tank (gal.)	Max. PSI Boost @ 0-10 GPM	Max. PSI Boost @ 10-20 GPM	Max. PSI Boost @ 20-30 GPM	Max. Pressure	Mfr. Model	Item No.
3	1	115	1	3	1¼"	1"	4.5	45	40	35	100 psi	1151AB25HM03	**48GP52**
	1	230	1	3	1¼"	1"	4.5	45	40	35	100 psi	1AB25HM03	**48GP25**
4	1	230	1	3	1"	1"	2	35	Not Rated	Not Rated	100 psi	1AB21HM04	**48GP22**
6	1	115	1	3	1"	1"	2	55	Not Rated	Not Rated	100 psi	1151AB21HM06	**48GP51**
	1	230	1	3	1"	1"	2	55	Not Rated	Not Rated	100 psi	1AB21HM06	**48GP23**
	2	230	1	4.2	1"	1"	2	80	60	Not Rated	100 psi	2AB23HM06	**48GP24**
	2	230	1	4.2	1¼"	1"	4.5	90	80	70	100 psi	2AB25HM06	**48GP28**


No. 53EA96


No. 53EC03

Turbine Pumps

- Liquid temp. range: -20° to 230°F
- 3450 rpm motors
- Bronze impellers
- Max. specific gravity: 1.0
- Mount on NEMA 56J frames, except 56C on 300 psi max. pressure models
- 300 psi max. pressure models handle vapors up to 20% by volume, to minimize vapor lock

Feature Type 21 mechanical seals and an easily accessible drain plug. Ball bearings on shaft for longer life. Suitable for industrial and commercial applications, boiler feed, condensation return, pressure service, water treatment, reverse osmosis filtration, spray equipment, and liquid transfer.

Notes: A suitable relief valve, such as No. 2X318 (on page 2895), should be installed to assure maximum psi is not exceeded; otherwise, electric motor/pump may be damaged.

Use only with nonflammable liquids compatible with pump materials in nonexplosive/nonflammable atmospheres.

Bronze Housing—Wetted materials are bronze, carbon, ceramic, Buna N, and stainless steel.

Cast-Iron Housing—Impellers have balancing holes to help eliminate side wear and reduce the need for external adjustments. Include cast-iron motor bracket with replacement bronze sleeve. Wetted materials are cast iron, bronze, carbon, ceramic, and Buna N.

Note: Not for use with viscous or abrasive liquids.

HP	Motor Encl.	Inlet	Outlet	Max. Pressure	1-PHASE Voltage	1-PHASE GPM @ 10 psi	1-PHASE GPM @ 50 psi	1-PHASE GPM @ 100 psi	1-PHASE Item No.		3-PHASE Voltage	3-PHASE GPM @ 10 psi	3-PHASE GPM @ 50 psi	3-PHASE GPM @ 100 psi	3-PHASE Item No.	
Bronze Housing																
⅓	ODP	¾" NPT	¾" NPT	120 psi	115/230	2.5	1.5	0.7	**53EA94**		—	—	—	—	—	
½	ODP	¾"	¾"	120 psi	—	—	—	—	—		208-230/460	6	3.7	1.1	**4JPD6**	
½	ODP	¾" NPT	¾" NPT	120 psi	115/230	6.0	3.7	1.1	**53EA95**		—	—	—	—	—	
¾	ODP	1¼" FNPT	1" FNPT	120 psi	115/230	7.6	6.4	4.8	**53EA96**		208-230/460	7.6	6.4	4.8	**53EA97**	
1	ODP	1"	1"	120 psi	115/230	11.2	8.6	3	**4JPE2**	*	—	—	—	—	—	
1½	TEFC	1¼" FNPT	1" FNPT	140 psi	115/208/230	9.7	7.8	5.6	**53EA98**		230/460	9.7	7.8	5.6	**53EA99**	
2	TEFC	1¼" FNPT	1" FNPT	100 psi	115/208/230	22.5	18.3	—	**53EC01**		230/460	22.5	18.3	—	**53EC02**	
Cast-Iron Housing																
½	ODP	¾" NPT	¾" NPT	140 psi	115/230	3.8	2.6	1.3	**53EC03**		—	—	—	—	—	
¾	ODP	1¼" FNPT	1" FNPT	120 psi	115/230	7.6	6.4	4.8	**53EC04**		—	—	—	—	—	
1	ODP	1¼" FNPT	1" FNPT	120 psi	115/230	11.2	8.6	3.0	**53EC05**		—	—	—	—	—	
3	TEFC	1¼" FNPT	1" FNPT	120 psi	—	—	—	—	—		230/460	18.4	16.0	12.6	**53EC06**	
Cast Iron with Nickel Plating Housing																
⅓	ODP	¾"	¾"	140 psi	115/230	2.5	1.5	0.7	**4JPF1**	*‡	—	—	—	—	—	
½	ODP	1¼"	1"	120 psi	—	—	—	—	—		208-230/460	3.8	2.6	1.3	**4JPF4**	‡
¾	ODP	1¼"	1"	120 psi	—	—	—	—	—		208-230/460	7.6	6.4	4.8	**4JPF6**	‡
1	ODP	1¼"	1"	120 psi	—	—	—	—	—		208-230/460	11.2	9.7	7.6	**4JPF7**	‡
1½	TEFC	1¼"	1"	140 psi	115/208-230	9.7	7.8	5.6	**4JPF8**	‡	208-230/460	9.7	7.8	5.6	**4JPF9**	‡
2	TEFC	1¼"	1"	100 psi	115/208-230	22.5	18.3	—	**4JPG1**	‡	208-230/460	22.5	18.3	—	**4JPG2**	‡

Item	For Use With No.	Includes	Item No.
Replacement Shaft Seal Kits and Seals			
O Ring Kit, T31 Mech Seal	4UP50, 4UP51	Seal, Seat, and Pump O-Rings	**26KJ17**
O Ring Kit, T51 Mech Seal	4P913-4P916, 4UP59-4UP66	Seal, Seat, and Pump O-Rings	**26KJ18**

Item	For Use With No.	Includes	Item No.
Replacement Shaft Seal Kits and Seals (Cont.)			
Shaft Seal Kit	4UP52-4UP58	Seal, Seat, and Pump O-Rings	**2WV89**
Shaft Seal	4UP50, 4UP51	Seal and Seat	**2WV87**
	4P913-4P916, 4UP52-4UP66	Seal and Seat	**2WV86**

** 150/230V only. ‡ Cast-iron housing with nickel plating.*



No. 1D873



No. 4HEZ7

Dayton

Convertible Well Jet Pumps

Eliminate the need to connect to a municipal water source and are for use in shallow wells (up to 25-ft. deep) or deep wells (greater than 25-ft. deep) depending on the ejectors used. Pumps are mounted above ground for repair and maintenance compared to submersible well pumps that are installed in the well and need to be removed from the well for inspection. Jet pumps are not subject to pump twisting found in submersible pumps that causes them to strike against and damage the sides of the well casing. Pumps are connected to an ejector, tank, and control panel to automatically supply water as needed.

Cast Iron—Adaptable to single-pipe shallow well or double-pipe deep well installations.

Thermoplastic—All wettable parts resist corrosives and abrasives found in most wells.

HP	Amps	Flow Rate @ 50 Ft. Lift @ 40 PSI	Ejector Included	Includes	Max. Suction Lift	Inlet	Item No.
Cast Iron Body, ¾" NPT Discharge							
½	13.0/6.5	—	Yes	Motor, Pressure Regulator, Pressure Switch and Pressure Gauge	40 ft.	1¼" NPT	**1D877**
Cast Iron Body, 1" NPT Discharge							
½	10.8/5.5	4.6 gpm	No	Requires Ejector Sold Separately (see accessories depending on application)	100 ft.	1 ¼" NPT	**5UXK3**
¾	14.0/7.0	4.6 gpm	Yes	Motor, Pressure Regulator, Pressure Switch and Pressure Gauge	50 ft.	1¼" NPT	**1D875**
	18.0/9.0	8.6 gpm	No	Requires Ejector Sold Separately (see accessories depending on application)	110 ft.	1 ¼" NPT	**5UXK4**
1	18.0/9.0	5.4 gpm	Yes	Motor, Pressure Regulator, Pressure Switch and Pressure Gauge	50 ft.	1¼" NPT	**1D873**
	20.0/10.5	11.1 gpm	No	Requires Ejector Sold Separately (see accessories depending on application)	140 ft.	1 ¼" NPT	**5UXK5**
1½	21.0/10.5	7.5 gpm	Yes	Motor, Pressure Regulator, Pressure Switch and Pressure Gauge	60 ft.	1¼" NPT	**1D879**
	21.5/11.0	14.0 gpm	No	Requires Ejector Sold Separately (see accessories depending on application)	140 ft.	1 ¼" NPT	**5UXK6**
Thermoplastic Body, 1" NPT Discharge							
½	10.0/4.8	2.5 gpm	No	Pressure Gauge	60 ft.	1¼" NPT	**4HEZ4**
¾	10.8/5.5	3.6 gpm	No	Pressure Gauge	80 ft.	1¼" NPT	**4HEZ5**
1	17.0/8.5	9.2 gpm	No	Pressure Gauge	110 ft.	1¼" NPT	**4HEZ6**
1½	19.0/9.5	11.9 gpm	No	Pressure Gauge	110 ft.	1¼" NPT	**4HEZ7**

Jet Pump Ejectors

Dayton

Ejectors consist of a nozzle and a venturi attached to a compatible jet pump to create a vacuum that draws water up the well. **Shallow-well** jet pump ejectors connect to compatible shallow-well jet pumps for wells less than 25-ft. deep. The **deep-well** models connect to connect to compatible deep-well or convertible well jet pumps for wells more than 25-ft. deep. All ejectors are commonly used in residential well applications.



No. 5UXL4

No. of Pipes	For Use With	Includes	Item No.
Shallow-Well			
3	5UXK3 to 5UXK6, 5UXL0 to 5UXL3	Gasket, Nozzles, Venturis, Bolts	**5UXL4**
4	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5	Check Valve, Nozzle, Venturi	**4HFC1**
Deep-Well			
6	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5, 5UXK3 to 5UXK6, 5UXL0 to 5ULX3	Check Valve, Nozzle, Venturi, Packer Cup Type Seals	**4HFC2**
7	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5	Foot Valve, Nozzle, Venturi, Plastic Suction Pipe Adapter, Foot Valve Pipe Nipple	**4HFA9**
8	5UXK3 to 5UXK6, 5UXL0 to 5UXL3	Gasket, Nozzles, Venturis, Bolts	**5UXL5**



No. 1D881

No. 4HEY4

Dayton

FLINT & WALLING, INC.

Shallow-Well Jet Pumps

Supply water from wells up to 25-ft. deep and eliminate the need to connect to a municipal water source. They are mounted above ground for maintenance and repair compared to submersible well pumps that are installed in the well and need to be removed from the well for inspection. Pumps are not subject to pump twisting found in submersible pumps that causes them to strike against and damage the sides of the well casing. They are connected to an ejector, tank, and control panel to automatically supply water as needed.

HP	Amps	Flow Rate @ 10 Ft Lift @ 40 PSI	Ejector Included	Max. Case Pressure	Shut Off Pressure	Brand	Item No.
¾" NPT Discharge							
½	8.6/4.3	8.7 gpm	Yes	72 PSI	72 PSI	Dayton	**1D881**
	13.0/6.5	12.2 gpm	Yes	69 PSI	69 PSI	Dayton	**1D876**
¾	13/6.5	12.0 gpm	Yes	150 PSI	65 PSI	Flint & Walling	**24PR52**
	13.0/6.5	12.2 gpm	Yes	74 PSI	74 PSI	Dayton	**1D880**
1" NPT Discharge							
⅓	9.0/4.5	2.7 gpm	Yes	160 PSI	59 PSI	Dayton	**4HEY8**
	10/4.8	3.3 gpm	Yes	140 PSI	63 PSI	Dayton	**4HEY3**
	10/4.8	4.5 gpm	No	123 PSI	66 PSI	Dayton	**5UXJ8**
½	9.6/4.8	3.5 gpm	Yes	160 PSI	60 PSI	Dayton	**4HEY9**
	10/4.8	4.4 gpm	Yes	140 PSI	63 PSI	Dayton	**4HEY4**
	10/5	7.3 gpm	No	123 PSI	67 PSI	Dayton	**5UXJ9**
¾	10.8/5.5	5.6 gpm	Yes	140 PSI	63 PSI	Dayton	**4HEY5**
	10.8/5.5	11.5 gpm	No	123 PSI	64 PSI	Dayton	**5UXK0**
	14.0/7.0	13.9 gpm	Yes	65 PSI	65 PSI	Dayton	**1D874**
	15.6/7.8	11.9 gpm	Yes	160 PSI	64 PSI	Dayton	**4HEZ1**
1	15.6/7.8	12.3 gpm	Yes	140 PSI	63 PSI	Dayton	**4HEY6**
	18.0/9.0	17.1 gpm	Yes	160 PSI	84 PSI	Dayton	**4HEZ2**
	18.0/9.0	18.4 gpm	Yes	70 PSI	70 PSI	Dayton	**1D872**
	20/10.5	17.8 gpm	No	123 PSI	65 PSI	Dayton	**5UXK1**
1½	17.2/8.8	21.1 gpm	Yes	140 PSI	63 PSI	Dayton	**4HEY7**
	20.3/10.4	17.6 gpm	Yes	160 PSI	72 PSI	Dayton	**4HEZ3**
	21.0/10.5	20.4 gpm	Yes	77 PSI	77 PSI	Dayton	**1D878**
	21.5/11	23.6 gpm	No	123 PSI	64 PSI	Dayton	**5UXK2**



No. 24PR57



No. 4HEZ9

FLINT & WALLING, INC.

Dayton

Jet Pump Systems

Pump systems are centrifugal end suction pumps that use a jet pump ejector to generate a vacuum which helps draw water up the well. They come with a booster tank to ensure the pump will maintain a more consistent water pressure and supply water to homes or facilities without having to connect to a municipal water source. Jet pumps are installed above ground for repair and maintenance, and they eliminate damaging pump twisting common with submersible well pumps that causes them to strike against and damage the sides of the well casing.

HP	Amps	Flow Rate @ 10 Ft Lift @ 40 PSI	Tank Cap.	Max. Suction Lift	Shut Off Pressure	Brand	Item No.	
Convertible Jet Pump Systems								
1"-NPT Discharge								
½	10.8/5.5	11.4 gpm	17.0 gal	100 ft	66 psi	Dayton	**5UXL1**	
	10.8/5.5	11.4 gpm	30.0 gal	100 ft	66 psi	Dayton	**5UXL0**	*
¾	18/9	14.9 gpm	17.0 gal	110 ft	65 psi	Dayton	**5UXL2**	
1	17.0/8.5	18.4 gpm	17.0 gal	110 ft	66 psi	Dayton	**4HFA5**	
	20/10.5	17.8 gpm	17.0 gal	80 ft	75 psi	Dayton	**5UXL3**	
Shallow Well Jet Pump Systems								
¾"-NPT Discharge								
½	8.6/4.3	5.2 gpm	8.5 gal	25 ft	60 psi	Flint & Walling	**24PR57**	
¾	13/6.5	9.6 gpm	14 gal	25 ft	65 psi	Flint & Walling	**24PR58**	
1"-NPT- Discharge								
⅓	10/4.8	3.3 gpm	2.0 gal	25 ft	63 psi	Dayton	**4HEZ8**	
	10/4.8	4.5 gpm	2.0 gal	25 ft	63 psi	Dayton	**5UXK7**	
½	9.6/4.8	3.5 gpm	6.0 gal	25 ft	60 psi	Dayton	**4HFA2**	
	10/4.8	4.4 gpm	6.0 gal	25 ft	63 psi	Dayton	**4HEZ9**	
	10.8/5.5	11.4 gpm	6.0 gal	25 ft	64 psi	Dayton	**5UXK8**	
¾	10.8/5.5	5.6 gpm	6.0 gal	25 ft	63 psi	Dayton	**4HFA1**	
	15.6/7.8	11.9 gpm	6.0 gal	25 ft	64 psi	Dayton	**4HFA3**	
	18/9	14.9 gpm	6.0 gal	25 ft	65 psi	Dayton	**5UXK9**	

** Standard tank.*



Stainless Steel
No. 1LZX7



Thermoplastic
No. 3TNY3

Submersible Deep-Well Pumps

Dayton

- Max. operating temp: 86°F, except Nos. 7YT16 to 7YT29 are 130°F

Provide a constant supply of water even during dry seasons and don't require priming since they are submerged in water. They are buried within a well deep in the ground and push water up through a pipe that is connected to one end of the pump. Models are connected to a tank to keep water pressure more consistent.

2-Wire—Require no control box since the motor controls wire directly to the water system pressure switch or power supply. Not for use where abrasives or heavy-water scale are present.

3-Wire—Require an above-ground control box (sold on page 2655) that connects between the pressure switch and pump motor. Motors have a high starting torque that can help loosen mineral deposits which may adhere to the pump's moving parts.

HP	Amps	No. of Stages	Flow Rate @ 100 Ft. @ 40 psi	Nominal Flow Rate	Discharge Head Material: Stainless Steel Max. Head	Stainless Steel Item No.	Thermoplastic Max. Head	Thermoplastic Item No.
2-Wire, 1 Phase, 110V AC								
½ hp	12.0	6	8.0 gpm	10 gpm	231 ft	**1LZR4**	—	—
	12.0	9	8.0 gpm	7 gpm	550 ft	**1LZX8**	430 ft	**3TNY3**
	12.0	13	6.0 gpm	5 gpm	364 ft	**1LZP8**	364 ft	**1LZT8**
2-Wire, 1 Phase, 220V AC								
½ hp	6.0	6	8.0 gpm	10 gpm	231 ft	**1LZR5**	231 ft	**1LZU5**
	6.0	9	8.0 gpm	7 gpm	550 ft	**1LZX7**	430 ft	**3TNY2**
	6.0	13	6.0 gpm	5 gpm	364 ft	**1LZP9**	364 ft	**1LZT9**
¾ hp	8.0	8	11.0 gpm	10 gpm	291 ft	**1LZR7**	291 ft	**1LZU7**
	8.0	12	9.0 gpm	7 gpm	310 ft	**1LZY2**	250 ft	**3TNY4**
	8.0	18	7.0 gpm	5 gpm	528 ft	**1LZR2**	528 ft	**1LZU2**
1 hp	9.8	10	18.0 gpm	20 gpm	221 ft	**1LZT4**	390 ft	**1LZV4**
	9.8	11	13.0 gpm	10 gpm	284 ft	**1LZR9**	284 ft	**1LZU9**
1 ½ hp	9.8	15	14.0 gpm	10 gpm	399 ft	**1LZT2**	399 ft	**1LZV2**
	13.1	14	21.0 gpm	20 gpm	288 ft	**1LZT6**	390 ft	**1LZV6**
3-Wire, 1 Phase, 110V AC (Control Box Required)								
½ hp	12.0	6	8.0 gpm	10 gpm	—	—	231 ft	**1LZU4**
	12.0	9	8.0 gpm	7 gpm	310 ft	**1LZY1**	250 ft	**3TNY5**
3-Wire, 1 Phase, 220V AC (Control Box Required)								
½ hp	6.0	6	8.0 gpm	10 gpm	231 ft	**1LZR3**	231 ft	**1LZU3**
	6.0	9	8.0 gpm	7 gpm	310 ft	**1LZX9**	375 ft	**3TNY6**
	6.0	13	6.0 gpm	5 gpm	364 ft	**1LZP7**	364 ft	**1LZT7**
¾ hp	8.0	8	11.0 gpm	10 gpm	291 ft	**1LZR6**	291 ft	**1LZU6**
	8.0	12	9.0 gpm	7 gpm	310 ft	**1LZY3**	375 ft	**3TNY7**
	8.0	18	7.0 gpm	5 gpm	528 ft	**1LZR1**	528 ft	**1LZU1**
1 hp	9.8	10	18.0 gpm	20 gpm	221 ft	**1LZT3**	221 ft	**1LZV3**
	9.8	11	13.0 gpm	10 gpm	284 ft	**1LZR8**	284 ft	**1LZU8**
1 ½ hp	11.5	14	21.0 gpm	20 gpm	288 ft	**1LZT5**	390 ft	**1LZV5**
	11.5	15	14.0 gpm	10 gpm	399 ft	**1LZT1**	399 ft	**1LZV1**
3-Wire, 3 Phase, 220 V AC (Control Box Required)								
2	6.7	10	—	35 gpm	470 ft	**7YT16**	—	—
3	9.5	11	—	45 gpm	630 ft	**7YT19**	—	—
5	15.9	12	—	85 gpm	425 ft	**7YT21**	—	—
	15.9	13	—	60 gpm	375 ft	**7YT28**	—	—
3-Wire, 3 Phase, 480 V AC (Control Box Required)								
2	3.4	10	—	35 gpm	470 ft	**7YT17**	—	—
3	4.8	11	—	45 gpm	283 ft	**7YT25**	—	—
5	8.0	13	—	60 gpm	390 ft	**7YT29**	—	—



No. 1LZP1

Dayton

Submersible Deep-Well Pump Heads

- Max. operating temp.: 130°F

Stainless steel pump heads consist of a pump body and impeller (without motor) that allows replacement of a defective pump head without having to replace the existing pump motor. They must be connected to a compatible motor for proper operation in a deep well. The long, cylinder-shaped pumps provide a constant supply of water even during dry seasons and don't require priming since they are submerged in water. Pumps are buried within a well deep in the ground and push water up through a pipe to the surface and are connected to a tank to keep water pressure more consistent. They are more effective for deep wells and go down several hundred feet compared to jet pumps that have a depth of up to 120 ft. Pump heads do not include a submersible motor. Order motor separately, by horsepower, on this page.

Req. Motor HP	No. of Stages	Flow Rate @ 100 Ft. @ 40 psi	Flow Rate @ 100 Ft. @ 50 psi	Max. Head	Item No.
2	10	29.0 gpm	25.0 gpm	288 ft.	**1LZP1**
2	12	29.0 gpm	28.0 gpm	350 ft.	**1LZN9**
3	8	43.0 gpm	32.0 gpm	265 ft.	**1LZP3**
3	11	45.0 gpm	41.0 gpm	350 ft.	**1LZP2**
5	12	70.0 gpm	70.0 gpm	285 ft.	**1LZP6**
5	13	65.0 gpm	60.0 gpm	425 ft.	**1LZP5**
5	18	54.0 gpm	52.0 gpm	575 ft.	**1LZP4**



No. 422X50



No. 1CXC3

Submersible Deep-Well Pump Motors

- Max. ambient temp.: 86°F

Deep-well pump motors can help draw water up from groundwater sources as deep as 400 ft. below the surface. They have a stainless steel shell with encapsulated, hermetically sealed stator and a splined stainless steel shaft. Lubricant-replenishing, filtered check valve and pressure-equalizing diaphragm. Replaceable lead wire assemblies include ground wire. Motors have hydrodynamic thrust bearings and CCWSE rotation. Continuous duty in 86°F water at ¼ ft. per sec. ½-HP to 2-HP models include 48" lead length; 3-HP to 7½-HP models include 100" lead length.

Flint & Walling, Inc. | Franklin Electric

1-Phase—For water systems that utilize a pressure switch. Built-in lightning protection. Capacitor-start motors require a control box, sold separately on page 2655. Automatic thermal protection on motors up to 1 HP; manual (in control box) 2 HP and higher.

3-Phase—Require motor starter and overload relay, sold separately on page 170.

Dia.	HP	Voltage	No. of Wires	RPM Range	Motor Service Factor	Motor Design	Full Load Amps	Max. SF Amps	Thrust Rating	Control Box Req.	Brand	Mfr. Model	Item No.
1-Phase													
3 ¾ in	½	115	2	3001-3600	1.6	Split-Phase	10.0	12.0	700 lb	—	Flint & Walling	137412	**422X50**
3 ¾ in	½	115	3	3001-3600	1.6	Split-Phase	10.0	12.0	700 lb	—	Flint & Walling	137426	**422X55**
3 ¾ in	½	230	2	3001-3600	1.6	Split-Phase	5.0	6.0	700 lb	—	Flint & Walling	137414	**422X51**
3 ¾ in	½	230	3	3001-3600	1.6	Split-Phase	5.0	6.0	700 lb	—	Flint & Walling	137428	**422X56**
4 in	1	230	2	3001-3600	1.4	Split-Phase	8.2	9.8	650 lb	No	Franklin Electric	2445089003S	**1CXB6**
4 in	2	230	3	3001-3600	1.25	Capacitor-Start	10.0	13.2	650 lb	1LZW4	Franklin Electric	2243019204S	**1CXB9**
4 in	3	230	3	3001-3600	1.15	Capacitor-Start	14.0	17.0	900 lb	1LZW3	Franklin Electric	2243022604	**1CXC1**
4 in	5	230	3	3001-3600	1.15	Capacitor-Start	23.0	27.5	1500 lb	1LZW8	Franklin Electric	2243038602	**1CXC2**

Dia.	HP	Voltage	No. of Wires	RPM Range	Motor Service Factor	Full Load Amps	Max. SF Amps	Thrust Rating	Starter Req.	Overload Relay Req.	Overload Relay Amp Setting	Overload Relay Max. Amp Setting	Mfr. Model	Item No.
3-Phase														
4 in	1 ½	200	3	3001-3600	1.3	5.8	6.8	650 lb	3DY20	3EA46	6.3	6.8	2345049203S	**1CXC3**
4 in	1 ½	230	3	3001-3600	1.3	5.0	5.9	650 lb	3DY20	3EA46	5.5	5.9	2345149203S	**1CXC4**
4 in	1 ½	460	3	3001-3600	1.3	2.5	3.0	650 lb	3DY20	3EA44	2.8	3.0	2345249403S	**1CXC5**
4 in	2	200	3	3001-3600	1.25	7.7	9.3	650 lb	3DY28	3DY99	8.6	9.3	2343059204S	**1CXC6**
4 in	3	230	3	3001-3600	1.15	9.5	10.9	900 lb	3DY28	3EA10	10.1	10.9	2343162604	**1CXD1**
4 in	3	460	3	3001-3600	1.15	4.8	5.5	900 lb	3DY20	3EA45	5.1	5.5	2343262604	**1CXD2**
4 in	5	230	3	3001-3600	1.15	15.9	17.8	1500 lb	3DY36	3EA11	16.6	17.8	2343178602	**1CXD4**
4 in	5	460	3	3001-3600	1.15	8.0	8.9	1500 lb	3DY20	3DY99	8.3	8.9	2343278602	**1CXD5**
4 in	7 ½	460	3	3001-3600	1.15	11.5	13.2	1500 lb	3DY36	3EA11	12.3	13.2	2343288602	**1CXD7**

Submersible Deep-Well Pumps and Control Panel Kits

- Max. operating temp.: 86°F, except Nos. 7YT18 to 7YT30 are 130°F

Control panel kits regulate the start/stop operation of submersible deep-well pumps that are buried within a well deep in the ground and push water up through a pipe that is joined to one end of the pump. The long, cylinder-shaped pumps can provide a constant supply of water even during dry seasons. They don't require priming since they are submerged in water and are connected to a tank to keep water pressure more consistent. Pumps are more effective for deep wells and can go down several hundred feet compared to jet pumps that have a depth of up to 120 ft.

HP	Amps	No. of Stages	Flow Rate @ 100 Ft. @ 50 psi	Nominal Flow Rate	Max. Head (ft.)	Item No.
110V AC, 3-Wire						
½ hp	12.0 A	7	7.0 gpm	8 gpm	290 ft	**2EHR4**
220V AC, 3-Wire						
½ hp	6.0 A	6	6.0 gpm	10 gpm	245 ft	**2EHP9**
	6.0 A	7	7.0 gpm	8 gpm	290	**2EHL7**
	6.0 A	8	5.0 gpm	6 gpm	364	**2EHP7**
¾ hp	8.0 A	8	10.0 gpm	12 gpm	339 ft	**2EHR1**
	8.0 A	10	9.0 gpm	9 gpm	378	**2EHL8**
	8.0 A	12	7.0 gpm	8 gpm	528 ft	**2EHP8**
1 hp	9.8 A	7	17.0 gpm	20 gpm	273 ft	**2EHR3**
	9.8 A	11	12.0 gpm	13 gpm	427 ft	**2EHR2**
220 V AC, 3-Wire						
2	10.0	10	25.0 gpm	33 gpm	288 ft	**7YT22**
	10.0	10	28.0 gpm	32 gpm	288 ft	**7YT24**
3	14.0	8	32.0 gpm	60 gpm	630 ft	**7YT20**
	14.0	11	41.0 gpm	48 gpm	350 ft	**7YT18**
5	23.0	12	60.0 gpm	90 gpm	390 ft	**7YT30**
	23.0	13	60.0 gpm	60 gpm	375 ft	**7YT27**
	23.0	18	52.0 gpm	45 gpm	283 ft	**7YT26**



No. 2EHR4


No. 7YT24

Submersible Motor and Pump Control Boxes

Franklin Electric

These 1-phase Type 3R enclosures have prepunched holes for pole or wall mounting, indoors or outdoors. CSIR Control Boxes have a start capacitor, but no run capacitor. CSCR Control Boxes have both a start capacitor and a run capacitor. Easy wiring, box-type terminal lugs that accept up to #10 AWG wire on ⅓- to 1-HP boxes and up to #2 AWG wire on 1½- to 10-HP boxes. All boxes are recommended for water systems that utilize a pressure switch and safety relief valve.

CSIR (Capacitor-Start, Induction-Run)—Boxes are quick-disconnect relay-type.

CSCR (Capacitor-Start, Capacitor-Run)—Models provide greater electrical efficiency and longer pump life. Deluxe CSCR boxes contain a magnetic contactor.

Motor/ Pump HP	Voltage	W (in.)	D (in.)	H (in.)	Control Box Type	Mfr. Model	Item No.
⅓	115	4 13/16	2 13/16	8 7/16	CSIR	2801024915	**1LZW9**
	230	4 13/16	2 13/16	8 7/16	CSIR	2801034915	**1LZX1**
½	115	4 13/16	2 13/16	8 7/16	CSIR	2801044915	**1LZX2**
	230	4 13/16	2 13/16	8 7/16	CSCR	2824055015	**1LZX3**
	230	4 13/16	2 13/16	8 7/16	CSIR	2801054915	**1LZV8**
¾	230	4 13/16	2 13/16	8 7/16	CSCR	2824075015	**1LZX4**
	230	4 13/16	2 13/16	8 7/16	CSIR	2801074915	**1LZV9**
1	230	4 13/16	2 13/16	8 7/16	CSCR	2824085015	**1LZX5**
	230	4 13/16	2 13/16	8 7/16	CSIR	2801084915	**1LZV7**
1½	230	8	5 13/16	9 5/16	CSCR	2823008110	**1LZX6** *
2	230	8	5 13/16	9 5/16	CSCR	2823018110	**1LZW6**
	230	8	5 13/16	9 5/16	Deluxe CSCR	2823018310	**1LZW4**
3	230	8	5 13/16	9 5/16	CSCR	2823028110	**1LZW7**
	230	8	5 13/16	9 5/16	Deluxe CSCR	2823028310	**1LZW3**
5	230	8	5 13/16	9 5/16	CSCR	2821138110	**1LZW5**
	230	8	5 13/16	16	Deluxe CSCR	2821139310	**1LZW8**
7½	230	8	5 13/16	16	Deluxe CSCR	2822019310	**1LZW1**
10	230	8	5 13/16	16	Deluxe CSCR	2822029330	**1LZW2**

** Thermal overload in motor only.*



No. 1LZV7

Pump Control Panels

Models are wall-mounted boxes with relays, switches, and breakers for controlling the start and stop cycling of sump and sewage pumps and attached alarms. These pump control panels use wiring to connect to the pump and allow for automatic or manual pump operation depending on the application.

Phase	Nominal Voltage (V AC)	Amps	For Use With	Encl. Type	Brand	Mfr. Model	Item No.
Number of Pumps Controlled: 1							
	110	40	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-VYN115PCP40	**4FNY6**
	110, 208, 220	0 to 20	—	NEMA 4X	Dayton	2PZG2	**2PZG2**
	110, 208, 220	0 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V0020S	**4FNY7**
	110, 208, 220	7 to 15	—	NEMA 4X	Dayton	2PZG4	**2PZG4**
	110, 208, 220	7 to 16	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V0716S	**4FNY8**
1	110, 208, 220	15 to 20	—	NEMA 4X	Dayton	2PZG5	**2PZG5**
	110, 208, 220	15 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V1520S	**4FNY9**
	110, 208, 220	20 to 25	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V2025S	**4FNZ1**
	110, 208, 220	20 to 30	—	NEMA 4X	Dayton	2PZG3	**2PZG3**
	220	20	4HEW7	NEMA 4X	Zoeller	10-2582	**4DMG5**
	220	32	—	NEMA 4X	Dayton	2PZF8	**2PZF8**
	220	48 to 65	Panel Fits Sludge Pump 12U574	—	Dayton	20VD40	**20VD40** *
	208, 220, 480	1.6 to 2.5	Submersible Pump w/No Switch	UL Type 4X	GE	GE-3480V0103S	**5GUT6**
	208, 220, 480	2.5 to 4	Submersible Pump w/No Switch	UL Type 4X	GE	GE-3480V0204S	**5GUT7**
	208, 220, 480	4 to 6.3	—	NEMA 4X	Dayton	2PZH1	**2PZH1**
	208, 220, 480	4 to 6.3	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0406S	**4FNZ6**
	208, 220, 480	6 to 10	—	NEMA 4X	Dayton	2PZH2	**2PZH2**
	208, 220, 480	6.3 to 10	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0610S	**4FNZ7**
3	208, 220, 480	9 to 13	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0913S	**4FNZ8**
	208, 220, 480	9 to 14	—	NEMA 4X	Dayton	2PZH3	**2PZH3**
	208, 220, 480	13 to 18	—	NEMA 4X	Dayton	2PZH4	**2PZH4**
	208, 220, 480	14 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V1420S	**4FNZ9**
	208, 220, 480	23 to 32	—	NEMA 4X	Dayton	2PZF9	**2PZF9**
	220	23 to 32	—	NEMA 4X	Dayton	2PZG1	**2PZG1**
	220, 480	20	4HEW8	NEMA 4X	Zoeller	10-0353	**4DMG6**
Number of Pumps Controlled: 2							
	110	0 to 12	—	NEMA 1	Zoeller	10-0804	**3GVK2**
	110, 208, 220	0 to 20	—	NEMA 4X	Dayton	2PZG6	**2PZG6**
	110, 208, 220	0 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V0020D	**4FNZ2**
	110, 208, 220	7 to 15	—	NEMA 4X	Dayton	2PZG8	**2PZG8**
1	110, 208, 220	7 to 16	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V0716D	**4FNZ3**
	110, 208, 220	15 to 20	—	NEMA 4X	Dayton	2PZG9	**2PZG9**
	110, 208, 220	15 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V1520D	**4FNZ4**
	110, 208, 220	20 to 25	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-1240V2025D	**4FNZ5**
	110, 208, 220	20 to 30	—	NEMA 4X	Dayton	2PZG7	**2PZG7**
	208, 220, 480	1.6 to 2.5	Submersible Pump w/No Switch	UL Type 4X	GE	GE-3480V0103D	**5GUT8**
	208, 220, 480	2.5 to 4	Submersible Pump w/No Switch	UL Type 4X	GE	GE-3480V0204D	**5GUT9**
	208, 220, 480	4 to 6.3	—	NEMA 4X	Dayton	2PZH5	**2PZH5**
	208, 220, 480	4 to 6.3	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0406D	**4FPA1**
3	208, 220, 480	6 to 10	—	NEMA 4X	Dayton	2PZH6	**2PZH6**
	208, 220, 480	6.3 to 10	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0610D	**4FPA2**
	208, 220, 480	9 to 13	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V0913D	**4FPA3**
	208, 220, 480	9 to 14	—	NEMA 4X	Dayton	2PZH7	**2PZH7**
	208, 220, 480	13 to 18	—	NEMA 4X	Dayton	2PZH8	**2PZH8**
	208, 220, 480	14 to 20	Submersible Pump w/No Switch	UL Type 4X, NEMA 4X	GE	GE-3480V1420D	**4FPA4**

** Thermal overload in motor only.*


GE
No. 4FNY6



Dayton
No. 2PZG2


Zoeller
No. 3GVK2


GE
No. 5GUT8

Well Water Tanks

Act as a reservoir to store water and keep the pressure consistent to reduce the start/stop cycling of the pump. Tanks keep the water pressure constant with an air bladder system that is precharged (a set amount of air is pumped into the bladder) when the tank is assembled at the factory or charged with an air compressor just before installation. Models without an air bladder require an air volume control to maintain air pressure for a consistent water flow. All tanks when used with pumps require a relief valve sold on page 2895.

Fiberglass Body—Rust-, dent-, and scratch-resistant high-density polyethylene composite is half the weight of steel. Base rotates 360°. Chlorine-resistant butyl air cell allows easy maintenance and will not affect water purity.

Steel Body—All-welded steel tanks have a butyl diaphragm system and are for use indoors or out. Models are for both residential and commercial water and booster systems, except Nos. 3P556, 3P556, and 3P272 are for use in domestic-use cold water applications. Tanks are coated epoxy inside, blue polyester outside.



Fiberglass Body
No. 16X845



Steel Body
No. 3GVT3

Body Material	Tank Cap.	Drawdown @ 30-50 PSI	Precharge Pressure (psi)	Tank Orientation	Max. Water Temp.	Inlet	Dia.	Overall Height	Item No.
Nonpressurized									
Fiberglass	40.0 gal	9.0 gpm	—	Vertical	120 °F	1¼"	16"	56½"	**5PFW2**
	80.0 gal	18.0 gpm	—	Vertical	120 °F	1¼"	21"	62"	**5PFW0**
	120.0 gal	26.0 gpm	—	Vertical	120 °F	1¼"	24"	72½"	**5PFW1**
Steel	12.0 gal	1.2 gpm	—	Horizontal	120 °F	¾"	12"	13½"	**3P556**
	30.0 gal	3.0 gpm	—	Horizontal	120 °F	¾"	16"	17½"	**3P557**
	42.0 gal	4.3 gpm	—	Vertical	120 °F	1¼"	16"	53½"	**3P272**
Precharged									
Fiberglass	14.0 gal	4.5 gpm	40	Vertical	120 °F	1"	16"	28 3/16"	**16X845**
	20.0 gal	6.1 gpm	40	Vertical	120 °F	1"	16"	34⅛"	**16X840**
	30.0 gal	9.1 gpm	40	Vertical	120 °F	1"	16"	46¼"	**16X846**
	40.0 gal	12.5 gpm	40	Vertical	120 °F	1"	16"	59"	**16X847**
	48.0 gal	14.6 gpm	40	Vertical	120 °F	1¼"	21"	43⅜"	**16X848**
	60.0 gal	18.5 gpm	40	Vertical	120 °F	1¼"	24"	44⅜"	**16X842**
	80.0 gal	24.6 gpm	40	Vertical	120 °F	1¼"	21"	65½"	**16X849**
	85.0 gal	26.8 gpm	40	Vertical	120 °F	1¼"	24"	57 3/16"	**16X843**
	119 gal	37.0 gpm	40	Vertical	120 °F	1¼"	24"	75⅜"	**16X844**
Steel	2.1 gal	0.6 gpm	30	Vertical	140 °F	¾"	8"	12"	**3GVT3**
	5.0 gal	1.8 gpm	30	Vertical	120 °F	¾"	10⅝"	16 3/16"	**5PFT9**
	5.3 gal	1.4 gpm	30	Horizontal	140 °F	¾"	11 13/32"	17½"	**3GVT4**
	6.0 gal	1.8 gpm	40	Vertical	120 °F	¾"	12"	16⅛"	**5PFV1**
	14.0 gal	3.7 gpm	30	Horizontal	140 °F	¾"	16 5/16"	20 51/64"	**3GVT5**
	19.0 gal	5.8 gpm	40	Vertical	120 °F	1"	20"	21"	**5PFV0**
	20.0 gal	5.4 gpm	40	Vertical	140 °F	1"	16"	29"	**3GVT6**
	26.0 gal	7.0 gpm	40	Vertical	140 °F	1"	16"	34½"	**3GVT7**
	44.0 gal	12.0 gpm	40	Vertical	140 °F	1¼"	21"	36¼"	**3GVT8**
	62.0 gal	16.7 gpm	40	Vertical	140 °F	1¼"	21"	48"	**3GVT9**
	81.0 gal	21.8 gpm	40	Vertical	140 °F	1¼"	21"	62"	**3GVU1**
	119.0 gal	32.1 gpm	40	Vertical	140 °F	1¼"	26"	59¾"	**3GVU2**
Pressurized									
Fiberglass	40.0 gal	—	—	Vertical	120 °F	1¼"	16"	61"	**5PFV3**
	80.0 gal	—	—	Vertical	120 °F	1¼"	21"	60"	**5PFV4**
	120.0 gal	—	—	Vertical	120 °F	1¼"	24"	72½"	**5PFV2**

Spring Check and Foot Valves

Prevent backflow or loss of prime.

Ductile-Iron—For use with high-flow submersible well pumps and have no leaded components.

Lead-Free and Low-Lead—Stainless steel spring and screen; nitrile seal. Lead-Free Brass Check Valves have a nonspin acetal poppet. Lead-Free Bronze Foot Valves have an Enviro-Check® body. Low-Lead Brass Check and Foot Valves have bronze seat.

PVC—Stainless steel spring and raised-radius valve seat for positive seal.

Acetal Resin Copolymer—Convert to check valves by removing the strainer; convert to check/foot valves by removing the spring. Lead-free components.



PVC
No. 4RG64



Low-Lead Brass
No. 36Y052

Material of Construc.	Size	Connec. Type	Max. Temp.	L	Brand	Item No.
Spring Check Valve						
Ductile Iron	2"	MNPT x FNPT	180°F	—	Dayton	**4RK71**
	3"	MNPT x FNPT	180°F	—	Dayton	**4RK70**
Lead-Free Brass	¾"	FNPT	180°F	3"	Campbell	**5YM04**
	1"	FNPT	180°F	3½"	Campbell	**5YM05**
	1¼"	FNPT	180°F	3¾"	Campbell	**5YM06**
	1½"	FNPT	180°F	4"	Campbell	**5YM07**
	2"	FNPT	180°F	5"	Campbell	**5YM08**
Low-Lead Brass	¾"	FNPT	158°F	3"	Campbell	**36Y047**
	1"	FNPT	158°F	3½"	Campbell	**36Y048**
	1¼"	FNPT	158°F	3¾"	Campbell	**36Y049**
	1½"	FNPT	158°F	4"	Campbell	**36Y050**
	2"	FNPT	158°F	5"	Campbell	**36Y051**
PVC	½"	FNPT	120°F	4 13/32"	Dayton	**4RG64**
	¾"	FIPT	120°F	4 19/32"	Dayton	**4RG65**
	¾"	SLIP	120°F	4 19/32"	Dayton	**4RG71**
	1"	FIPT	120°F	5¾"	Dayton	**4RG66**
	1"	SLIP	120°F	5¾"	Dayton	**4RG72**
	1¼"	SLIP	120°F	6⅜"	Dayton	**4RG73**
	1½"	FIPT	120°F	6¾"	Dayton	**4RG68**
	1½"	SLIP	120°F	6¾"	Dayton	**4RG74**
	2"	FIPT	120°F	7 15/16"	Dayton	**4RG69**
	2"	SLIP	120°F	7 15/16"	Dayton	**4RG75**
Spring Foot Valve						
Acetal Resin Copolymer	¾"	FNPT	180°F	4 29/32"	Brady	**2A646**
	1"	FNPT	180°F	5⅜"	Brady	**2A647**
	1¼"	FNPT	180°F	6⅛"	Brady	**2A648**
	1½"	FNPT	180°F	7 3/16"	Brady	**2A649**
Lead-Free Bronze	¾"	FNPT	180°F	3 35/64"	Campbell	**5YM09**
	1"	FNPT	180°F	4¾"	Campbell	**5YM10**
	1¼"	FNPT	180°F	4¾"	Campbell	**5YM11**
	1½"	FNPT	180°F	2½"	Campbell	**5YM12**
	2"	FNPT	180°F	3"	Campbell	**5YM13**
Low-Lead Brass	¾"	FNPT	158°F	3¾"	Campbell	**36Y052**
	1"	FNPT	158°F	4¾"	Campbell	**36Y053**
	1¼"	FNPT	158°F	4¾"	Campbell	**36Y054**
	1½"	FNPT	158°F	2½"	Campbell	**36Y055**
	2"	FNPT	158°F	3"	Campbell	**36Y056**

Well Accessories

Use only with nonflammable liquids compatible with pump component materials and in nonflammable/nonexplosive atmospheres.



Well Seal
No. 5YM59



Well Cap
No. 2NRE6



Well Points
No. 5YM69



Hose Barb
No. 5YM55



Pitcher Pump
No. 5YM61



Heat Shrink Splice Kit
No. 5YM50

Item	Brand	Item No.
Well Seals, ABS Body, PVC Gasket		
1" Drop Pipe Dia., 1" Cable Hole Dia., 6" Casing I.D.	Campbell	**5YM64**
1" Drop Pipe Dia., ¾" Cable Hole Dia., 4" Casing I.D.	Campbell	**5YM62**
1¼" Drop Pipe Dia., 1" Cable Hole Dia., 6" Casing I.D.	Campbell	**5YM65**
1¼", 1" Drop Pipe Dia., 4" Casing I.D.	Campbell	**5YM63**
1¼", 1" Drop Pipe Dia., 4" Casing I.D.	Campbell	**5YM59**
Well Caps		
ABS Body, Rubber Gasket, 6" Casing I.D.	Campbell	**2NRE6**
Cast Iron Body, 6⅝" Casing I.D.	Campbell	**2NRF1**
Well Points, Galvanized Steel, Stainless Steel Body		
24" L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM69**
24" L, 1 ¼ in O.D., 60 Gauze, 400 Max. Press.	Simmons	**482A38**
30" L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM71**
36" L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM73**
48" L, 2 in O.D., 80 Gauze	Campbell	**5YM70**
Pitcher Pump		
Cast Iron, 15" H, 1 ¼ in Inlet Dia.	Simmons	**482A52**
Cast Iron, 17½" H, 1 ¼ in Inlet Dia.	Campbell	**5YM61**
Barbed Hose Fitting		
¾" x ¾", Hose Barb x NPT	Campbell	**5YM52**
1" x 1", Hose Barb x NPT	Campbell	**5YM53**
1¼" x 1¼", Hose Barb x NPT	Campbell	**5YM54**
1½" x 1½", Hose Barb x NPT	Campbell	**5YM55**
2" x 2", Hose Barb x NPT	Campbell	**5YM56**
Pitless Adapter		
1" Inlet/Outlet, 100 PSI Max., Low Lead Brass	Campbell	**38G635**
Well Tank Accessories		
¼" Comp. Tank Port, ¼" Comp. Suction Port, 20 to 60 psi, Zinc Body	Brady	**3A421**
1¼"MPT Tank Port, 1¼"MPT Suction Port, 20 to 100 psi, Zinc Body	Campbell	**29AH95**
1000 ft. Rope, 700 lb. Tensile Strength	Campbell	**2NRE9**
Drive Cap, Malleable Iron Body, 1 ¼ in O.D.	Campbell	**5YM57**
Drive Cap, Malleable Iron Body, 2 in O.D.	Campbell	**5YM58**
Drive Coupling, Galvanized Steel Body, 1 ¼ in O.D.	Campbell	**5YM76**
Drive Coupling, Galvanized Steel Body, 2 in O.D.	Campbell	**5YM77**
Heat Shrink Splice Kit, 14 to 10 AWG	Campbell	**5YM50**
Torque Arrestor PVC, Stainless Steel Body, 1" to 2" Drop Pipe, 4" to 8" Casing I.D.	Campbell	**5YM80**

Bell and Gossett Hydronic Circulating Pumps

Bell & Gossett
a xylem brand

HP	Phase	Voltage (VAC)	Inlet/ Outlet Size	Shut-Off	No. of Speeds	Housing Material	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Mfr. Model	Item No.
3-Piece Oil-Lubricated Booster													
1/12	1	115	3/4"- 1 1/2"	8 ft	1	Cast Iron	6 3/8"	9 @ 8 ft	32 @ 1 ft	17 @ 6 ft	125	100 NFI	**4RD16**
	1	115	3/4"- 1 1/2"	18 ft	1	Cast Iron	8 1/2"	13 @ 15 ft	29 @ 1 ft	18 @ 12 ft	125	PR	**4RC91**
1/6	1	115	1"- 1 1/2"	12 ft	1	Cast Iron	8 1/2"	15 @ 11 ft	39 @ 1 ft	28 @ 8 ft	125	HV NFI	**4RC93**
	1	115	2"	10 ft	1	Cast Iron	8 1/2"	35 @ 9 ft	71 @ 1 ft	40 @ 8 ft	125	2" NFI	**4RC95**
1/4	1	115	2 1/2"	16 ft	1	Cast Iron	10"	17 @ 15 ft	110 @ 2.5 ft	65 @ 11 ft	125	2 1/2"	**4RC97**
	1	115	3"	16 ft	1	Cast Iron	10"	17 @ 15 ft	110 @ 2.5 ft	65 @ 11 ft	125	LD3	**4RC99**
1/3	1	115/230	3"	18 ft	1	Cast Iron	10"	19 @ 18 ft	112 @ 4 ft	70 @ 12 ft	125	HD3	**4RD02**
1/2	1	115/230	3"	23 ft	1	Cast Iron	12"	42 @ 20 ft	115 @ 8 ft	80 @ 15 ft	125	PD35S	**4RD13**
3/4	1	115/230	3"	30 ft	1	Cast Iron	12"	60 @ 25 ft	135 @ 11 ft	85 @ 21 ft	125	PD37S	**4RD14**
e-90 Series													
1/4	1	115/208 to 230	1"	19 ft	—	Bronze Fitted	11"	7 @ 4 ft	41 @ 13 ft	28 @ 16 ft	175	E9001S	**34TJ79**
	1	115/208 to 230	1 1/4"	18 ft	—	Bronze Fitted	11"	9 @ 4 ft	63 @ 7 ft	35 @ 16 ft	175	E9004S	**34TJ82**
1/2	1	115/208 to 230	1 1/4"	18 ft	—	Bronze Fitted	11"	12 @ 6 ft	78 @ 13 ft	46 @ 24 ft	175	E9006S	**34TJ84**
	1	115/208 to 230	1 1/2"	26 ft	—	Bronze Fitted	11 1/2"	14 @ 6 ft	97 @ 9 ft	54 @ 22 ft	175	E9009S	**34TJ87**
	1	115/208 to 230	2"	18 1/2 ft	—	Bronze Fitted	11 1/2"	18 @ 4 ft	128 @ 9 ft	71 @ 18 ft	175	E9012S	**34TJ90**
3/4	1	115/208 to 230	1 1/2"	28 ft	—	Bronze Fitted	11 1/2"	15 @ 6 ft	101 @ 10 ft	57 @ 24 ft	175	E9010S	**34TJ88**
	1	115/208 to 230	3"	22 ft	—	Bronze Fitted	12"	26 @ 4 ft	185 @ 8 ft	103 @ 17 ft	175	E9017S	**34TJ95**
	3	208 to 230/460	1 1/2"	28 ft	—	Bronze Fitted	11 1/2"	15 @ 6 ft	101 @ 10 ft	57 @ 24 ft	175	E9010T	**34TK14**
	3	208 to 230/460	3"	22 ft	—	Bronze Fitted	12"	26 @ 4 ft	185 @ 8 ft	103 @ 17 ft	175	E9017T	**34TK19**
1	1	115/208 to 230	2"	30 ft	—	Bronze Fitted	11 1/2"	25 @ 6 ft	160 @ 14 ft	99 @ 25 ft	175	E9014S	**34TJ92**
1 1/2	3	208 to 230/460	1"	70 ft	—	Bronze Fitted	11"	13 @ 15 ft	73 @ 46 ft	52 @ 6 ft	175	E9021T	**34TK22**
	3	208 to 230/460	1 1/4"	56 ft	—	Bronze Fitted	11"	12 @ 14 ft	109 @ 24 ft	49 @ 54 ft	175	E9025T	**34TK25**
1	3	208 to 230/460	2"	30 ft	—	Bronze Fitted	11 1/2"	25 @ 6 ft	160 @ 14 ft	99 @ 25 ft	175	E9014T	**34TK17**
3	3	208/230/460	1 1/2"	83 ft	—	Bronze Fitted			166 @ 32 ft			E9031T	**34TK31**
	3	208 to 230/460	2"	57 ft	—	Bronze Fitted	11 1/2"	26 @ 13 ft	215 @ 27 ft	104 @ 53 ft	175	E9034T	**34TK34**
5	3	208 to 230/460	3"	72 ft	—	Bronze Fitted	11 1/2"	51 @ 14 ft	315 @ 33 ft	205 @ 56 ft	175	E9037T	**34TK37**
NRF Series													
1/40	1	115	3/4"- 1 1/2"	8 ft	1	Cast Iron	6 3/8"	7 @ 3ft	10.7 @ 1 ft	5 @ 4.8 ft	150	NRF-9F/LW	**4YM17**
1/25	1	115	3/4"- 1 1/2"	15 ft	1	Cast Iron	6 3/8"	10 @ 8 ft	20.6 @ 1 ft	10 @ 8 ft	150	NRF-22	**4RD04**
1/15	1	115	3/4"- 1 1/2"	18 1/2 ft	3	Cast Iron	6 3/8"	1 @ 18 ft	24 @ 1 ft	15 @ 8 ft	150	NRF-25	**3NVG3**
1/6	1	115	3/4"- 1 1/2"	32 1/2 ft	3	Cast Iron	6 3/8"	13 @ 25 ft	35.75 @ 1 ft	20 @ 18.5 ft	150	NRF-36	**3NVG4**
	1	115	1"- 1 1/2"	27 1/2 ft	3	Cast Iron	8 1/2"	5 @ 25 ft	44 @ 1 ft	25 @ 14 ft	150	NRF-45	**3NVG5**
PL Series													
1/12	1	115	3/4"- 1 1/2"	24 ft	1	Cast Iron	6 3/8"	7 @ 20 ft	30 @ 1 ft	15 @ 13 ft	150	PL-30	**4JA83**
	1	115	3/4"- 1 1/2"	37 ft	1	Cast Iron	6 3/8"	7 @ 35 ft	38 @ 1 ft	20 @ 22 ft	150	PL-36	**4JA84**
1/6	1	115	1"- 1 1/2"	17 ft	1	Cast Iron	8 1/2"	20 @ 15 ft	58 @ 1 ft	35 @ 12 ft	150	PL-50	**4JA86**
	1	115	1"- 1 1/2"	30 ft	1	Cast Iron	8 1/2"	13 @ 30 ft	49 @ 1 ft	25 @ 18 ft	150	PL-45	**4JA85**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*

- Flange connection
- Max. temp.: 225°F, except Nos. 4YM17 and 4RD04 are 240°F

Maintain a watertight seal with pipe flanges connected to hydronic system plumbing. Designed for use in closed loop heat recovery and hydronic systems in industrial and residential applications.



No. 4RD16



No. 4RD04



No. 4JA83

Bell & Gossett
a xylem brand

Bell and Gossett Potable Water Circulating Pumps

HP	Phase	Voltage (VAC)	Inlet/ Outlet Size	Connection Style	Shut-Off	No. of Speeds	Housing Material	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Max. Temp.	Mfr. Model	Item No.
3-Piece Oil-Lubricated Booster															
1/12	1	115	3/4"- 1 1/2"	Flange	8 ft	1	Lead Free Bronze	6 3/8"	5 @ 8 ft	32 @ 1 ft	17 @ 6 ft	125	225 °F	100 BNFI	**5JPD9**
	1	115	3/4"- 1 1/2"	Flange	18 ft	1	Low Lead Bronze	8 1/2"	13 @ 15 ft	29 @ 1 ft	18 @ 12 ft	125	225 °F	PR-AB	**5JPD3**
1/6	1	115	1"- 1 1/2"	Flange	12 ft	1	Low Lead Bronze	8 1/2"	15 @ 11 ft	39 @ 1 ft	28 @ 8 ft	125	225 °F	HV BNFI	**5JPD4**
	1	115	2"	Flange	10 ft	1	Low Lead Bronze	8 1/2"	35 @ 9 ft	71 @ 1 ft	40 @ 8 ft	125	225 °F	2 BNFI	**5JPD5**
1/4	1	115	2 1/2"	Flange	16 ft	1	Low Lead Bronze	10"	17 @ 15 ft	110 @ 2 ft	65 @ 11 ft	125	225 °F	2 1/2 AB	**5JPD6**
	1	115	3"	Flange	16 ft	1	Low Lead Bronze	10"	17 @ 15 ft	110 @ 2 ft	65 @ 11 ft	125	225 °F	LD3 AB	**5JPD7**
1/3	1	115/230	3"	Flange	18 ft	1	Low Lead Bronze	10"	19 @ 18 ft	115 @ 4 ft	60 @ 13 ft	125	225 °F	HD3 AB	**5JPD8**
1/2	1	115/230	3"	Flange	23 ft	1	Low Lead Bronze	12"	42 @ 20 ft	115 @ 8 ft	80 @ 15 ft	125	225 °F	PDB-35S	**5JPF1**
3/4	1	115/230	3"	Flange	30 ft	1	Low Lead Bronze	12"	60 @ 25 ft	135 @ 11 ft	85 @ 21 ft	125	225 °F	PDB-37S	**5JPF2**
e-60 Series															
1/4	1	115/208 to 230	1"	Flange	18 ft	1	Bronze	11"	10 @ 18 ft	40 @ 11 ft	26 @16 ft	175	250 °F	Be601S	**422W62**
	1	115/208 to 230	1 1/4"	Flange	19 ft	1	Bronze	11"	10 @ 19 ft	55 @ 11 ft	36 @ 16 ft	175	250 °F	Be604S	**422W59**
1/3	1	115/208 to 230	1 1/4"	Flange	24 ft	1	Bronze	11"	10 @ 24 ft	65 @ 12 ft	40 @ 20 ft	175	250 °F	Be605S	**422W63**
	1	115/208 to 230	1 1/2"	Flange	24 ft	1	Bronze	11 1/2"	15 @ 24 ft	80 @ 13 ft	52 @ 20 ft	175	250 °F	Be608S	**422W60**
1/2	1	115/208 to 230	2"	Flange	24 ft	1	Bronze	11 1/2"	25 @ 24 ft	120 @ 9 ft	78 @ 14 ft	175	250 °F	Be610S	**422W64**
	3	208 to 230/460	1 1/2"	Flange	24 ft	1	Bronze	11 1/2"	15 @ 24 ft	80 @ 13 ft	52 @ 20 ft	175	250 °F	Be608T	**422W65**
3/4	1	115/208 to 230	2"	Flange	24 ft	1	Bronze	11 1/2"	25 @ 24 ft	130 @ 15 ft	85 @ 21 ft	175	250 °F	Be611S	**422W61**
	3	208 to 230/460	2"	Flange	24 ft	1	Bronze	11 1/2"	25 @ 24 ft	130 @ 15 ft	85 @ 21 ft	175	250 °F	Be611T	**422W66**
NBF Series															
1/40	1	115	3/4"- 1 1/2"	Union	12 ft	1	Bronze	6 1/8"	0.5 @ 11 ft	18 @ 1 ft	7 @ 7 ft	150	225 °F	NBF-12U/LW	**5JPA9**
1/25	1	115	3/4"- 1 1/2"	Flange	15 ft	1	Bronze	6 3/8"	1 @ 14.5 ft	22 @ 1 ft	11 @ 7.5 ft	150	225 °F	NBF-22	**5JPC0**
	1	115	3/4"- 1 1/2"	Union	15 ft	1	Bronze	6 1/8"	5.2 @ 20 ft	20.6 @ 1 ft	10 @ 8 ft	150	225 °F	NBF-22U	**5JPC1**
1/15	1	115	3/4"- 1 1/2"	Flange	18 1/2 ft	3	Bronze	6 3/8"	1 @ 18 ft	24 @ 1 ft	15 @ 8 ft	150	225 °F	NBF-25	**5JPA6**
1/6	1	115	3/4"- 1 1/2"	Flange	32 1/2 ft	1	Bronze	6 3/8"	13 @ 25 ft	35.75 @ 1 ft	20 @ 18.5 ft	150	225 °F	NBF-36	**5JPA7**
	1	115	1"- 1 1/2"	Flange	27 1/2 ft	3	Bronze	8 1/2"	5 @ 25 ft	44 @ 1 ft	25 @ 14 ft	150	225 °F	NBF-45	**5JPA8**
PL Series															
1/12	1	115	3/4"- 1 1/2"	Flange	24 ft	1	Low Lead Bronze	6 3/8"	7 @ 20 ft	30 @ 1 ft	15 @ 13 ft	150	225 °F	PL-30B	**5JPC2**
	1	115	3/4"- 1 1/2"	Flange	37 ft	1	Lead Free Bronze	6 3/8"	4 @ 35 ft	38 @ 1 ft	20 @ 22 ft	150	225 °F	PL-36B	**5JPC3**
1/6	1	115	1"- 1 1/2"	Flange	17 ft	1	Low Lead Bronze	8 1/2"	20 @ 15 ft	58 @ 1 ft	35 @ 12 ft	150	225 °F	PL-50B	**5JPC5**
	1	115	1"- 1 1/2"	Flange	30 ft	1	Low Lead Bronze	8 1/2"	5 @ 27 ft	49 @ 1 ft	25 @ 18 ft	150	225 °F	PL-45B	**5JPC4**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*



No. 5JPD9



No. 5JPC3

Feature wetted surfaces that are lead free and contain not more than 0.25% of lead by weight, so pumps are suitable for use in potable water applications. Constructed of virgin lead free alloys and not recycled or post-consumer scrap alloys that may contain high levels of lead.

Bell and Gossett Hot Water Circulating Pumps

Bell & Gossett
a xylem brand

HP	Phase	Voltage (VAC)	Inlet/ Outlet Size	Shut-Off	Housing Material	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Mfr. Model	Item No.
e-60 Series											
1/4	1	115/208 to 230	1"	18 ft	Cast Iron	11"	10 @ 18 ft	40 @ 11 ft	26 @ 16 ft	e601S	**422W57**
	1	115/208 to 230	1 1/4"	19 ft	Cast Iron	11"	10 @ 19 ft	55 @ 11 ft	36 @ 16 ft	e604S	**422W68**
1/3	1	115/208 to 230	1 1/4"	24 ft	Cast Iron	11"	10 @ 24 ft	65 @ 12 ft	40 @ 20 ft	e605S	**422W58**
	1	115/208 to 230	1 1/2"	24 ft	Cast Iron	11 1/2"	15 @ 24 ft	80 @ 13 ft	52 @ 20 ft	e608S	**422W67**
1/2	1	115/208 to 230	2"	17 ft	Cast Iron	11 1/2"	20 @ 17 ft	120 @ 9 ft	78 @ 14 ft	e610S	**422W56**
	3	208 to 230/460	1 1/2"	24 ft	Cast Iron	11 1/2"	15 @ 24 ft	80 @ 13 ft	52 @ 20 ft	e608T	**422W71**
3/4	1	115/208 to 230	1 1/2"	33 ft	Cast Iron	13 1/2"	20 @ 33 ft	95 @ 19 ft	60 @ 29 ft	e613S	**422W70**
	1	115/208 to 230	2"	24 ft	Cast Iron	11 1/2"	25 @ 24 ft	130 @ 15 ft	85 @ 21 ft	e611S	**422W69**
	3	208 to 230/460	2"	24 ft	Cast Iron	11 1/2"	25 @ 24 ft	130 @ 15 ft	85 @ 21 ft	e611T	**422W72**
1	1	115/208 to 230	1 1/2"	38 ft	Cast Iron	13 1/2"	15 @ 38 ft	80 @ 23 ft	60 @ 26 ft	e623S	**422W75**
	3	208 to 230/460	2"	32 ft	Cast Iron	14"	25 @ 32 ft	135 @ 18 ft	100 @ 26 ft	e624T	**422W76**
1 1/2	3	208 to 230/460	1 1/2"	46 ft	Cast Iron	13 1/2"	20 @ 46 ft	90 @ 30 ft	67 @ 40 ft	e617T	**422W73**
	3	208 to 230/460	2"	39 ft	Cast Iron	14"	30 @ 39 ft	150 @ 23 ft	105 @ 33 ft	e625T	**422W77**
2	3	208 to 230/460	2"	45 ft	Cast Iron	14"	30 @ 45 ft	160 @ 29 ft	105 @ 40 ft	e619T	**422W74**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*



No. 422W67

- Max. operating pressure: 175 psi
- Max. temp.: 250°F
- Flange connection
- 1-speed

These 2-piece, maintenance-free pumps have permanently lubricated ball bearings, flexible couplings, and bronze impellers. They deliver quiet, smooth, and consistent performance in hydronic heating and cooling systems, refrigeration, and cooling towers.


No. 4RD75


No. 4YM22

Bell & Gossett
a xylem brand

Seal Bearing Assemblies and Graduated Oil Tubes

For Pump No.	Mfr. Model	Item No.	
Seal Bearing			
3CFE9, 4RC93, 4RC95, 5JPD4, 5JPD5	189165LF	**4RD82**	
4RC91, 4RC97, 4RC99, 4RD02, 5JPD3, 5JPD6, 5JPD7, 5JPD8	189105LF	**4RD80**	
4RC93, 4RC95, 5JPD4, 5JPD5	189166LF	**3CEY9**	*
4RD13, 4RD14, 5JPF1, 5JPF2	186863LF	**4RD78**	
4RD15	185260LF	**4RD75**	
4RD16	118844LF	**3CEY7**	
4RD16	189134LF	**4RD83**	*
5JPD9	189034LF	**3CEY8**	
5JPD9	189161LF	**4RD79**	*

Description	Item No.
Graduated Oil Tube	
Used with Nos. 4RC91 to 99, 4RD02, 4RD16, and 4RD17. 1½ Oz.	**4YM22**
Used with Nos. 4RD13 to 14 and 4RD35 to 46. 2½ Oz.	**4YM23**

**** Comes with impeller.***

Circulating Pump Couplers


No. 4RD26

Bell & Gossett
a xylem brand

For Pump No.	Shaft Size (in.)	Coupling Material	Mfr. Model	Item No.
4RC91, 4RC93, 4RC95, 4RD16, 5JPD3, 5JPD4, 5JPD5, 5JPD9	½ x ½	Cast-Iron	118705	**4RD81**
4RC97, 4RC99, 4RD02, 5JPD6, 5JPD7, 5JPD8	½ x ½	Cast-Iron	118724	**3CEZ2**
4RC97, 4RC99, 4RD02, 5JPD6, 5JPD7, 5JPD8	½ x ½	Cast-Iron	118723	**4RD27**
4RD13, 4RD14, 5JPF1, 5JPF2	½ x ½	Cast-Iron	118474	**3CEZ3**
4RD13, 4RD14, 5JPF1, 5JPF2, 422W57, 422W58, 422W59, 422W60, 422W61, 422W62, 422W63, 422W65, 422W66, 422W67, 422W68, 422W69, 422W71, 422W72	½ x ½	Cast-Iron	118473	**4RD26**
4RD13, 4RD14, 5JPF1, 5JPF2	⅝ x ½	Cast-Iron/Spring	118709	**4YM24**
4RD15	⅝ x ½	Cast-Iron	186410	**4RD77**
4RD15, 422W56, 422W61, 422W64, 422W66, 422W69, 422W70, 422W72, 422W75, 422W76	⅝ x ½	Zinc/Rubber	185330	**5YN78**
4RD15, 422W76	⅝ x ⅝	Steel/Rubber	186004	**4RD76**
422W73, 422W74, 422W77	⅝ x ⅝	Steel/Rubber	186003	**4YM27**


No. 3CFE9

Bell & Gossett
a xylem brand

Power Packs

HP	Voltage	Phase	For Pump No.	Mfr. Model	Item No.
½	115	1	4RD16, 5JPD9	111034	**3CFE7**
⅙	115	1	4RC91, 5JPD3	111031	**3CFE8**
⅙	115	1	4RC93, 4RC95, 5JPD4, 5JPD5	111061	**3CFE9**
¼	115	1	4RC97, 4RC99, 5JPD6, 5JPD7	111040	**3CFD8**
⅓	115/230	1	4RD02, 5JPD8	111042	**3CFE1**
1 ½	208-230/460	3	422W73, 422W77	169237	**3CFE6**
2	208-230/460	3	422W74	169238	**3CFF1**



No. 4JA91

Bell & Gossett
a xylem brand

Circulating Pump Flanges

All flanges come in sets of 2.

Pipe Size (in.)	FLANGE Mfr. Model	FLANGE Item No.	GASKET Mfr. Model	GASKET Item No.
Circulating Flanges				
Low-Lead Bronze				
½ Sweat	113203LF	**5JPE2**	118368	**3CFA6**
¾ NPT	101208LF	**5JPC6**	118373	**3CFA7**
¾ NPT	113202LF	**5JPE1**	118368	**3CFA6**
¾ Sweat	113201LF	**5JPE0**	118368	**3CFA6**
1 NPT	101212LF	**5JPD0**	118368	**3CFA6**
1 NPT	101209LF	**5JPC7**	118373	**3CFA7**
1 ¼ NPT	101210LF	**5JPC8**	118368	**3CFA6**
1 ¼ NPT	101213LF	**5JPD1**	118373	**3CFA7**
1 ½ NPT	101214LF	**5JPD2**	118368	**3CFA6**
1 ½ NPT	101211LF	**5JPC9**	118373	**3CFA7**
Cast-Iron				
¾	101201	**4RC77**	118368	**3CFA6**
1	101202	**4RC78**	118368	**3CFA6**
1	101205	**4RC81**	118373	**3CFA7**
1 ¼	101203	**4RC79**	118373	**3CFA7**
1 ¼	101206	**4RC82**	118368	**3CFA6**
1 ½	101204	**4RC80**	118373	**3CFA7**
1 ½	101207	**4RC83**	118368	**3CFA6**
Isolation Flanges				
Brass				
¾ NPT	101221LF	**4JA91**	118368	**3CFA6**
1 NPT	101222LF	**4JA92**	118368	**3CFA6**
1 ¼ NPT	101223LF	**4JA93**	118368	**3CFA6**
¾ Sweat	101226LF	**4JA96**	118368	**3CFA6**

Replacement Parts

Bell & Gossett
a xylem brand

For Pump No.	Mfr. Model	Item No.
Aquastat Control		
¾" Aquastat	113224	**4RD23**
½" Aquastat	113223	**4RD22**
Automatic Timer Kit		
TC-1 Timer	113210	**4RD21**
Bearing		
Various Sizes	P77063	**6JHG2**
Bearing Assembly		
—	189163LF	**6JHG0**
Body Gasket		
4RD16	P04080	**3CFA3**
Fastener Pkg		
4JA83, 4JA84, 4RC91, 4RD16, 5JPC2, 5JPC3, 5JPD3, 5JPD9, 34TJ79, 34TJ80, 34TJ81, 34TJ82, 34TJ83, 34TJ84, 34TJ97, 34TJ98, 34TJ99, 34TK01, 34TK02, 34TK03, 34TK04, 34TK11, 34TK12, 34TK21, 34TK22, 34TK23, 34TK24, 34TK25, 34TK26, 34TK27, 34TK28, 422W57, 422W58, 422W59, 422W62, 422W63, 422W68	P64910	**3CEZ5**
4RC93	P64930	**3CEZ6**
4JA85, 4JA86, 4RC93, 5JPC4, 5JPC5, 5JPD4, 34TJ85, 34TJ86, 34TJ87, 34TJ88, 34TK05, 34TK06, 34TK07, 34TK13, 34TK14, 34TK29, 34TK30, 34TK31, 34TK32, 422W60, 422W65, 422W67, 422W70, 422W71, 422W73, 422W75	P64940	**3CEZ7**
4RC95, 5JPD5	P65030	**3CEZ8**
4RC95, 34TJ89, 34TJ90, 34TJ91, 34TJ92, 34TK08, 34TK09, 34TK15, 34TK16, 34TK17, 34TK33, 34TK34, 34TK35, 422W56, 422W61, 422W64, 422W66, 422W69, 422W72, 422W74, 422W76, 422W77	P65031	**3CEZ9**
4RD13, 4RD14, 4RD15	P09540	**3CFA2**
4RC97, 4RC99, 4RD02, 4RD13, 4RD14, 5JPD6, 5JPD7, 5JPD8, 5JPF1, 5JPF2, 34TJ93, 34TJ94, 34TJ95, 34TJ96, 34TK10, 34TK18, 34TK19, 34TK20, 34TK36, 34TK37	P65130	**3CFA1**
Flange Gasket Set		
4JA83, 4JA84, 4RC91, 4RD16, 5JPC2, 5JPC3, 5JPD3, 5JPD9, 422W57, 422W58, 422W59, 422W62, 422W63, 422W68	118368	**3CFA6**
Front Bearing Gasket		
3CEY7, 4RD16, 4RD17, 5JPD9	P80815	**6JHF8**
Gasket		
4RC97, 4RC99, 4RD02	P05800	**3CFA4**
4RD15, 5YN73, 422W73, 422W74, 422W75, 422W76, 422W77	P57700	**3CFA5**
4RC93, 4RC95, 4RD82, 4YM28, 5JPC0, 5JPD7, 5JPD8	P04890	**3CFA8**
4RD13, 4RD14, 34TJ79, 34TJ80, 34TJ81, 34TJ82, 34TJ83, 34TJ84, 34TJ85, 34TJ86, 34TJ87, 34TJ88, 34TJ89, 34TJ90, 34TJ91, 34TJ92, 34TJ93, 34TJ94, 34TJ95, 34TJ96, 34TJ97, 34TJ98, 34TJ99, 34TK01, 34TK02, 34TK03, 34TK04, 34TK05, 34TK06, 34TK07, 34TK08, 34TK09, 34TK10, 34TK11, 34TK12, 34TK13, 34TK14, 34TK15, 34TK16, 34TK17, 34TK18, 34TK19, 34TK20, 34TK21, 34TK22, 34TK23, 34TK24, 34TK25, 34TK26, 34TK27, 34TK28, 34TK29, 34TK30, 34TK31, 34TK32, 34TK33, 34TK34, 34TK35, 34TK36, 34TK37, 422W56, 422W57, 422W58, 422W59, 422W60, 422W61, 422W62, 422W63, 422W64, 422W65, 422W66, 422W67, 422W68, 422W69, 422W70, 422W71, 422W72	P57410	**3CFC1**
All 1¼-4 BC sizes	P48690	**6HKZ6**


No. 3CEZ5


No. 3CFC2


No. 3CFC3


No. 4RD24

For Pump No.	Mfr. Model	Item No.
Gasket Set		
4RC97, 4RC99, 4RD02, 4RD13, 4RD14, 4RD15, 5JPD6, 5JPD7, 5JPD8, 5JPF1, 5JPF2	118129	**3CFA9**
4JA85, 4JA86, 4RC93, 5JPC4, 5JPC5, 5JPD4, 422W60, 422W65, 422W67, 422W70, 422W71, 422W73, 422W75	118373	**3CFA7**
Impeller		
4RD02, 5JPD8	118439LF	**3CFC2**
4RC97, 4RC99, 5JPD6, 5JPD7	118440LF	**3CFC3**
4RC91, 5JPD3	118612LF	**3CFC4**
5JPF2	118626LF	**3CFC5**
4RD14	118629	**3CFC6**
4RD13	118630	**3CFC7**
4RC93	118668	**3CFC8**
4RD02	118675	**3CFC9**
4RC97, 4RC99, 4RD02, 5JPD6, 5JPD7, 5JPD8	118676	**3CFD1**
4RC91, 5JPD3	118830	**3CFD2**
4RC93, 4RC95, 5JPD4, 5JPD5	189128LF	**3CFD3**
4JA83, 4JA84, 5JPC2, 5JPC3	189170LF	**3CFD4**
4RD15	108709	**3CFD6**
4RD16, 5JPD9	189132LF	**3CFD7**
4JA85, 5JPC4	189171LF	**3CFD5**
Motor Mount Ring		
4RD16, 4RC93, 4RC95, 5JPD9, 4RC94, 4RC96, 4RC91, 4RC92	118223	**4RD24**
4RC97, 4RC99, 4RD02, 4RD13, 4RD14, 5JPD6, 5JPD7, 5JPD8, 5JPF1, 5JPF2	118228	**4RD25**
Seal Kit		
4JA83, 4JA84, 4JA85, 4JA86, 5JPC2, 5JPC3, 5JPC4, 5JPC5	189144LF	**3CFF3**
4RD15	186499LF	**3CFF4**
4RC91, 4RC93, 4RC95, 4RC97, 4RC99, 4RD02, 4RD13, 4RD14, 4RD16, 5JPD7, 5JPD8, 5JPD9	118681LF	**3CFF5**
422W73, 422W77	180014	**6HKZ8**
Shaft		
4RD16, 5JPD9, 4RC91, 4RC92, 4RC93, 4RC94, 4RC97, 4RC98, 4RC99, 4RD01, 4RD02, 4RD03	189035LF	**3CFF7**
4RD15, 4RD75, 4RD78, 5YN79, 5YN80	118469	**3CFF8**
Shaft Kit		
—	185024LF	**6HKZ9**
Strainer		
—	118036	**6HLA0**
Switch Assembly With Float		
4RD29, 4RD31, 4RD32	DA0393	**6JHF9**
Water Slinger		
Domestic Pump®	DP0848	**6HLA1**

Taco Hydronic Circulating Pumps

- 1-phase
- Flange connection

In-line pumps are maintenance-free with a cast-iron housing and feature a removable, spring-loaded Integral Flow Check (IFC) design that prevents gravity flow and eliminates the need for a separate in-line check valve.

Suitable for hydronic heating, domestic hot water recirculation, solar thermal heating, and heat recovery systems. Pumps are not for use in potable water systems. 00 Series has motors that are impedance-protected. 2400 Series has a ½" carbon/silicon-carbide mechanical seal, permanently lubricated ball bearings with ½" stainless steel shaft. Wet rotor.



No. 5P427



No. 4PC90



No. 5CHK9

HP	Voltage (VAC)	Inlet/Outlet Size	Shut-Off	No. of Speeds	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Max. Temp.	Mfr. Model	Item No.
00 Series												
1/35	115	¾"- 1½"	9 ft	1	6⅜"	5 @ 8 ft	18 @ 1 ft	11 @ 5 ft	125	230 °F	005-F2	**5P427**
	230	¾"- 1½"	9 ft	1	6⅜"	1 @ 8.5 ft	18.5 @ 1 ft	9 @ 6 ft	125	230 °F	005-F4Y	**13L284**
1/25	115	¾"- 1½"	8 ½ ft	1	6⅜"	3 @ 10 ft	16 @ 1 ft	8 @ 6 ft	125	240 °F	007-F5-7IFC	**4JB22**
	115	¾"- 1½"	10 ft	1	6⅜"	4 @ 9 ft	22 @ 1 ft	12 @ 7 ft	125	240 °F	007-F5	**4PC90**
	115	¾"- 1½"	15 ft	1	6⅜"	1 @ 15 ft	14.5 @ 1 ft	9 @ 9 ft	125	230 °F	008-F6	**4PC92**
1/20	115	¾"- 1½"	10 ft	3	6⅜"	3 @ 10 ft	32 @ 1 ft	15 @ 7 ft	125	230 °F	0010-MSF2-IFC	**2KGX8**
1/8	115	¾"- 1½"	9 ft	1	6⅜"	7 @ 10 ft	28 @ 1 ft	14 @ 6.5 ft	125	230 °F	0010-F3-1IFC	**4JB26**
	115	¾"- 1½"	10 ft	1	6⅜"	4 @ 10 ft	30.5 @ 1 ft	18 @ 7 ft	125	230 °F	0010-F3	**4PC77**
	115	¾"- 1½"	31 ft	1	6½"	6.5 @ 25 ft	30 @ 1 ft	16 @ 17 ft	125	230 °F	0011-F4	**4PC78**
	115	¾"- 1½"	22 ft	1	6½"	3 @ 20 ft	30 @ 1 ft	16 @ 12 ft	125	230 °F	0014-F1	**4PC84**
	115	¾"- 1½"	35 ft	1	6⅜"	2 @ 30 ft	10 @ 1 ft	6 @ 18 ft	125	230 °F	009-F5-IFC	**4JB24**
	115	¾"- 1½"	35 ft	1	6⅜"	2.5 @ 30 ft	10 @ 1 ft	6 @ 20 ft	125	230 °F	009-F5	**4PC94**
	115	2"	14 ft	1	8½"	25 @ 10 ft	50 @ 1 ft	24 @ 10 ft	125	230 °F	0012-F4-1	**4PC80**
1/6	115	¾"- 1½"	34 ft	1	6½"	5 @ 30 ft	33 @ 1 ft	20 @ 17 ft	125	230 °F	0013-F3	**4PC82**
2400 Series												
1/10	115	¾"- 1½"	23 ft	1	6⅜"	4 @ 22 ft	18 @ 9.5 ft	12 @ 17 ft	150	225 °F	2400-10-3P	**5CHJ9**
1/6	115	¾"- 1½"	29 ft	1	6⅜"	6 @ 29 ft	32 @ 7 ft	25 @ 15 ft	150	225 °F	2400-20-3P	**5CHK1**
	115	1½"	29 ft	1	8½"	10 @ 25 ft	38 @ 10 ft	30 @ 17 ft	150	225 °F	2400-30-3P	**5CHK3**
½	115	¾"- 1½"	46 ft	1	6⅜"	6 @ 46 ft	38 @ 19 ft	35 @ 26 ft	150	225 °F	2400-50-3P	**5CHK7**
	115	2"	22 ft	1	8½"	10 @ 22 ft	90 @ 11 ft	70 @ 18 ft	150	225 °F	2400-70-3P	**5CHK9**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*

Taco Potable Water Circulating Pumps

- 1-phase
- 1-speed

Maintenance-free, in-line pumps have a low-lead bronze housing for use on open, domestic hot water recirculation systems, or a stainless steel housing for potable water systems. 00 Series has motors that are impedance-protected. 2400 Series has a ½" carbon/silicon-carbide mechanical seal, permanently lubricated ball bearings with ½" stainless steel shaft. Wet rotor. The Hot-Link® System No. 44ZD50 is for domestic hot water recirculation, and can save up to 12,000 gal. of water per year by providing instant hot water to faucets and showers. All pumps meet NSF 372 for ≤ 0.25% lead content.



No. 3GZW3



No. 3GZV9



No. 5CHK8

HP	Voltage (VAC)	Inlet/ Outlet Size	Connection Style	Shut-Off	Housing Material	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Max. Temp.	Mfr. Model	Item No.
00 Series													
1/40	115V AC	½ in	Sweat	4.5 ft	Low Lead Bronze	4 ¼	1.5 @ 4 ft.	6 @ 1 ft.	4 @ 3 ft.	125	220°F	003-BC4	**4YVF4**
	115V AC	½ in	Sweat	9.5 ft	Low Lead Bronze	4 ¼	2 @ 9 ft.	10.5 @ 1 ft.	6 @ 6.5 ft.	125	220°F	006-B4-14	**4YVF8**
	115V AC	¾ in	Sweat	4.5 ft	Bronze	4 ⅜	3 @ 10 ft.	3 @ 3 ft.	15 @ 7 ft.	125	220°F	003-B4	**4PC85**
	115V AC	¾ in	Sweat	9.5 ft	Low Lead Bronze	4 ⅜	2 @ 9 ft.	10.5 @ 1 ft.	6 @ 6.5 ft.	125	220°F	006-B4-15	**4YVF5**
	115V AC	¾ in	NPT	9.5 ft	Stainless Steel	4	2 @ 9 ft.	11 @ 1 ft.	6 @ 6 ft.	125	220°F	006-ST4-1	**3GZW3**
	230V AC	½ in	Sweat	10 ft	Bronze	4 ¼	1 @ 8 ft.	10.5 @ 1 ft.	7 @ 5 ft.	125	220°F	006-BC8Y	**13L286**
	230V AC	¾ in	FNPT	10 ft	Stainless Steel	4	1 @ 8 ft.	10.5 @ 1 ft.	7 @ 5 ft.	125	230°F	006-ST8Y	**13L287**
1/35	115V AC	¾ in to 1 ½ in	Flange	9 ft	Stainless Steel	6 ⅜	3 @ 8 ft.	18.5 @ 1 ft.	11 @7 ft.	125	220°F	005-SF2	**3GZW2**
1/25	115V AC	¾ in to 1 ½ in	Flange	9 ft	Stainless Steel	6 ⅜	2 @ 8 ft.	16 @ 1 ft.	8 @ 6 ft.	125	230°F	007-SF5-IFC	**3GZV2**
	115V AC	¾ in to 1 ½ in	Flange	10 ft	Stainless Steel	6 ⅜	5 @ 9 ft.	22 @ 1 ft.	12 @ 7 ft.	125	230°F	007-SF5	**3GZV9**
	115V AC	¾ in to 1 ½ in	Flange	15 ft	Stainless Steel	6 ⅜	1 @ 15 ft.	14.5 @ 1 ft.	10 @ 8 ft.	125	230°F	008-SF6	**3GZW5**
	115V AC	¾ in	Sweat	16 ft	Low Lead Bronze	6 ⅜	1 @ 15 ft.	14.5 @ 1 ft.	9 @ 9 ft.	125	230°F	008-BC6	**4YVF6**
	230V AC	¾ in to 1 ½ in	Flange	15 ft	Stainless Steel	6 ⅜	1 @ 15 ft.	14 @ 1 ft.	8 @ 10 ft.	125	230°F	008-SF7Y	**3GZV5**
1/8	115V AC	¾ in to 1 ½ in	Flange	9 ft	Stainless Steel	6 ⅜	8 @ 8 ft.	28 @ 1 ft.	14 @ 6 ft.	125	230°F	0010-SF3-IFC	**3GZV4**
	115V AC	¾ in to 1 ½ in	Flange	22 ft	Stainless Steel	6 ½	4 @ 20 ft.	31 @ 1 ft.	16 @ 12 ft.	125	230°F	0014-SF1	**3GZV8**
	115V AC	¾ in to 1 ½ in	Flange	35 ft	Stainless Steel	6 ⅜	4 @ 25 ft.	10.5 @ 1 ft.	6 @ 18 ft.	125	230°F	009-SF5-IFC	**3GZV3**
	115V AC	¾ in to 1 ½ in	Flange	35 ft	Stainless Steel	6 ⅜	5 @ 25 ft.	10.5 @ 1 ft.	6 @ 20 ft.	125	230°F	009-SF5	**3GZW1**
	115V AC	1 ½ in	Flange	14 ft	Stainless Steel	8 ½	8 @ 13 ft.	50 @ 1 ft.	24 @ 10 ft.	125	230°F	0012-SF4	**3GZV6**
1/6	115V AC	¾ in to 1 ½ in	Flange	33 ft	Stainless Steel	6 ½	11 @ 25 ft	33.5 @ 1 ft.	18 @ 19 ft.	125	230°F	0013-SF3	**3GZV7**
2400 Series													
1/6	115V AC	¾ in to 1 ½ in	Flange	49 ft	Stainless Steel	6 ⅜	8 @ 46 ft.	32 @ 7 ft.	24 @ 33 ft.	150	225°F	2400-20S-3P	**5CHK2**
	115V AC	1 ½ in	Flange	29 ft	Stainless Steel	8 ½	10 @ 25 ft.	38 @ 10 ft.	30 @ 17 ft.	150	225°F	2400-30S-3P	**5CHK4**
½	115V AC	¾ in to 1 ½ in	Flange	22.5 ft	Stainless Steel	6 ⅜	16 @ 23 ft.	38 @ 19 ft.	50 @ 19.5 ft.	150	225°F	2400-50S-3P	**5CHK8**
Hot-Link® System													
1/40	115V AC	¾ in	NPT	10 ft	Steel	4	1 @ 9.5 ft.	10.5 @ 1 ft.	6 @ 6 ft.	125	—	HLS-2	**44ZD50**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*

Circulating Pump Accessories

Note: Flange gaskets are not for use with any other manufacturer's pump.

No. 4PC95





No. 4AYV8

Pipe Size (in.)	Fits Pump	Mfr. Model	Item No.	Pkg. Qty.
Flange				
¾ NPT	2KGU9, 2KJG8, 2KGV3, 5P427, 4P795, 4PC90, 4JB22, 4PC92, 4PC77, 4JB26, 4PC78, 4PC94, 4JB24, 2KGX7, 4PC82, 4PC84	110-251F-1	**2KGW2**	2
1 NPT		110-252F-1	**2KGW3**	2
1½ NPT		110-254F-1	**2KGW5**	2
2 NPT	2KGV4, 2KGV5	185-086C	**2KGW8**	2
1½ NPT	4PC79, 2KGV8, 2KGV9	194-1542SF-1	**3GZV1**	2
¾ NPT	All Taco Bronze or Stainless Steel 00 and 1400 Series except Nos. 4PC79, 2KGV8, 2KGV9	110-251SF-1	**3GZU5**	1
1 NPT		110-252SF-1	**3GZU6**	1
1¼ NPT		110-253SF-1	**3GZU7**	1
1½ NPT		110-254SF-1	**3GZU8**	1
Flange Gasket				
—	2KGV4, 2KGV5	1400-009RP	**4DZP3**	2
—	2KGV8, 2KGV9, 3GZV6, 4PC79, 5CHK4, 5CHK6	007-007RP	**4DZP2**	2

For Use With Grainger Item No.	Mfr. Model	Item No.
24-hr. Timer & Temp. Aquastat		
All Taco 00 Circulating Pumps	265-1	**4PC95**
All Taco 00 Circulating Pumps	563-2	**4PC96**
Replacement Cartridges		
2KGX7	00R-002RP	**4AYX6**
2KGX8	0010-034RP	**4AYX7**
3GZV2, 3GZV9, 4JB23, 4PC89	007-045RP	**4AYV9**
3GZV3, 3GZW1, 4JB25, 4PC93	009-022RP	**4AYW4**
3GZV4, 4JB27	0010-022RP	**4AYW7**
3GZV5, 3GZW5, 4PC91	008-045RP	**4AYW3**
3GZV6, 4PC79	0012-012RP	**4AYW9**
3GZV7, 4PC81	0013-008RP	**4AYX2**
3GZV8, 4PC83	0014-003RP	**4AYX4**
3GZW2, 3GZW3, 3GZW4, 4JB21, 4PC87, 4PC88, 5P431, 5P432, 13L285, 13L286, 13L287, 30K904, 30K905, 30K906, 30L046, 30L050, 386R91, 386R97, 386R98, 386T87, 386U51, 3GZW2, 46E491, 46E492, 46E493, 4JB21, 4P976, 4YVF7, 5P428	005-020RP	**4AYV8**
4JB22, 4PC90	007-042RP	**4AYW1**
4JB24, 4PC94	009-021RP	**4AYW5**
4JB26, 4PC77	0010-021RP	**4AYW6**
4PC78	0011-009RP	**4AYW8**
4PC80	0012-011RP	**4AYX1**
4PC82	0013-007RP	**4AYX3**
4PC84	0014-004RP	**4AYX5**
4PC92	008-044RP	**4AYW2**



Pump
No. 32UN13



No. 32UN20

Armstrong Hydronic Circulating Pumps

ARMSTRONG

Designed to pump glycol and water solutions up to 50% in domestic and light commercial closed loop hydronic heating systems. Also for use when deoxygenated or chemically treated water will pass through the pump. Cast-iron housing. Nos. 32UM80 and 32UM81 include 2 flanges.

No. 32UN20—Offers up to 70% greater energy efficiency compared to other standard circulators. Model has an automatic mode that can "learn" usage patterns over time and adjust performance for greater energy efficiency. The included integral check valve is for use in systems using hydronic zoning, and is easily removed if not needed. Includes 2 gaskets.

HP	Phase	Voltage (VAC)	Inlet/ Outlet Size	Shut-Off	No. of Speeds	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Max. Temp.	Mfr. Model	Item No.
Astro Series													
1/8	1	115	1¼"	18 ft	3	6⅜"	0 @ 18 ft	18 @ 1 ft	8 @ 10 ft	150	230 °F	ASTRO 230CI	**32UN13**
	1	115	1¼"	31 ft	3	6½"	0 @ 31 ft	32 @ 0 ft	16 @ 18 ft	150	230 °F	ASTRO 280CI	**32UN04**
5/16	1	115	1½"	14 ft	3	8½"	0 @ 14 ft	64 @ 0 ft	28 @ 10 ft	150	230 °F	ASTRO 290CI	**32UN08**
	1	230	1¼"	31 ft	3	6½"	0 @ 31 ft	32 @ 0 ft	16 @ 18 ft	150	230 °F	ASTRO 280CI 230V	**32UN05**
Compass Series													
1/17	1	115	1"	20 ft	8	6½"	0 @ 20 ft	20 @ 0 ft	10 @ 10 ft	150	230 °F	COMPASS 20-20H CI	**32UN20**
E-Series													
1/6	1	115	1½"	27 ft	1	8½"	0 @ 27 ft	38 @ 5 ft	20 @ 18 ft	150	230 °F	E10.2	**32UN21**
2/5	1	115	1½"	22 ft	1	8½"	0 @ 22 ft	112 @ 5 ft	60 @ 17 ft	150	230 °F	E30.2	**32UM88**
	1	115	1½"	35 ft	1	8½"	0 @ 35 ft	76 @ 5 ft	42 @ 25 ft	150	230 °F	E23.2	**32UM84**
H-Series													
¾	1	115/230	1½"	45 ft	1	13½"	15 @ 44 ft	62 @ 13 ft	40 @ 37 ft	125	225 °F	H-64-1	**32UM80**
	3	208/230/460	1½"	45 ft	1	13½"	15 @ 44 ft	62 @ 13 ft	40 @ 37 ft	125	225 °F	H-64-3	**32UM81**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance.*



No. 32UN06



No. 32UN17

Armstrong Potable Water Circulating Pumps

ARMSTRONG

Suitable for use in open systems such as domestic hot water recirculation or pressure boosting, and where the use of low-lead bronze or stainless steel is desired to avoid corrosion.

No. 32UN16—Use to automatically circulate water through domestic hot water distribution pipes. Includes timer, aquastat, 2 gaskets, and 6-ft. power cord to ease installation.

HP	Phase	Voltage (VAC)	Inlet/ Outlet Size	Shut-Off	Housing Material†	No. of Speeds	Face to Face Dimension	Min. GPM @ Head	Max. GPM @ Head	Best Efficiency GPM @ Head*	Max. Operating Pressure (psi)	Max. Temp.	Mfr. Model	Item No.
Astro Series														
1/32	1	115	1¼"	6 ft	SS	3	6"	0 @ 6 ft	9.5 @ 0 ft	4 @ 3 ft	150	230 °F	ASTRO 220SSU050S-TA	**32UN16**
1/9	1	115	1¼"	13 ft	SS	3	6"	0 @ 13 ft	14 @ 1 ft	8 @ 8 ft	150	230 °F	ASTRO 225SSU	**32UN12**
1/8	1	115	1¼"	18 ft	SS	3	6⅜"	0 @ 18 ft	18 @ 1 ft	8 @ 10 ft	150	230 °F	ASTRO 230SS	**32UN10**
1/6	1	115	1¼"	24 ft	SS	3	6⅜"	0 @ 24 ft	18 @ 2 ft	8 @ 14 ft	150	230 °F	ASTRO 250SS	**32UN11**
	1	115	1¼"	31 ft	SS	3	6½"	0 @ 31 ft	32 @ 0 ft	16 @ 18 ft	150	230 °F	ASTRO 280SS	**32UN06**
5/16	1	115	1½"	14 ft	SS	3	8½"	0 @ 14 ft	64 @ 0 ft	28 @ 10 ft	150	230 °F	ASTRO 290SS	**32UN09**
	1	230	1¼"	31 ft	SS	3	6½"	0 @ 31 ft	32 @ 0 ft	16 @ 18 ft	150	230 °F	ASTRO 280SS 230V	**32UN07**
E-Series														
1/6	1	115	1½"	27 ft	LFB	1	8½"	0 @ 27 ft	38 @ 5 ft	20 @ 18 ft	150	230 °F	E10.2B	**32UN17**
2/5	1	115	1½"	35 ft	LFB	1	8½"	0 @ 35 ft	76 @ 5 ft	42 @ 25 ft	150	230 °F	E23.2 B	**32UM86**
	1	115	2"	22 ft	LFB	1	8½"	0 @ 22 ft	112 @ 5 ft	60 @ 17 ft	150	230 °F	E30.2 B	**32UM90**
H-Series														
¾	1	115/230	1½"	45 ft	LFB	1	13½"	15 @ 44 ft	62 @ 13 ft	40 @ 37 ft	125	225 °F	H-64-1 LFB	**32UM82**
	3	208/230/460	1½"	45 ft	LFB	1	13½"	15 @ 44 ft	62 @ 13 ft	40 @ 37 ft	125	225 °F	H-64-3 LFB	**32UM83**

** To convert to psi, divide total feet of head by 2.31. Use "Best Efficiency GPM @ Head" for optimum performance. † SS = stainless steel. LFB = lead free bronze.*

ARMSTRONG

Armstrong Circulating Pumps Flange and Union Kits



No. 33RX35

Flanged Kits—For use where there are no existing fittings for installation. Each kit includes 2 flanges, 2 gaskets, and hardware.

Union Kits—Replacement kits include 2 unions and 2 gaskets.

Pipe Size (in.)	For Pump No.	Mfr. Model	Item No.
Flanged Kits			
1	32UN10, 32UN11, 32UN06, 32UN07	FLANGE LF BRZ 1" NPT F2+HWKIT	**33RX35**
1¼	32UN08, 32UN21, 32UN84, 32UN85, 32UN88, 32UN89	FLANGE CI 1.25" NPT F2+HWKIT	**33RX34**
1¼	32UM86	FLANGE LF BRZ 1.25" NPT F2+HWKIT	**33RX36**
1½	32UN17, 32UN86, 32UN87, 32UN90, 32UN91	FLANGE LF BRZ 1.5" NPT FS2+HWKIT	**33RX37**
Cast Iron			
¾ NPT	32UN13, 32UN04, 32UN05, 32UN20	FLANGE CI 0.75" NPT FS2+HWKIT	**32UM92**
1 NPT	32UN13, 32UN04, 32UN05, 32UN20	FLANGE CI 1" NPT FS2+HWKIT	**32UM93**
1¼ NPT	32UN13, 32UN04, 32UN05, 32UN20	FLANGE CI 1.25" NPT FS2+HWKIT	**32UM94**
1½ NPT	32UN13, 32UN04, 32UN05, 32UN20	FLANGE CI 1.5" NPT FS2+HWKIT AST	**32UM95**
1½ NPT	32UN08, 32UN21, 32UM84, 32UM85, 32UM80, 32UM81	FLANGE CI 1.5" NPT F2+HWKIT	**32UM96**
2 NPT	32UM88, 32UM89	FLANGE CI 2" NPT F4+HWKIT	**32UM97**
Lead Free Bronze			
¾ NPT	32UN10, 32UN11, 32UN06, 32UN07	FLANGE LF BRZ 0.75" NPT F2+HWKIT	**32UM98**
1 NPT	32UN10, 32UN11, 32UN06, 32UN07	FLANGE LF BRZ 1" NPT FS2+HWKIT	**32UM99**
1¼ NPT	32UN10, 32UN11, 32UN06, 32UN07	FLANGE LF BRZ 1.25" NPT F2+HWKIT	**32UN01**
1½ NPT	32UN09, 32UN17, 32UM87, 32UM86	FLANGE LF BRZ 1.5" NPT F2+HWKIT	**32UN02**
2 NPT	32UM91, 32UM90	FLANGE LF BRZ 2" NPT F4+HWKIT	**32UN03**
Union Kits			
Lead Free Bronze			
½ Sweat	32UN15, 32UN12	LF ½" SWEAT UNION HARDWARE KIT	**32UN19**
¾ FNPT	32UN15, 32UN12	LF ¾" FNPT UNION HARDWARE KIT	**32UN14**

Bell & Gossett
a xylem brand

Water Pressure Reducing Valves



No. 6LFA2

- Max. pressure: 125 psi
- Max. temp.: 225°F

Use to control and protect plumbing systems by reducing the downstream pressure. They decrease the psi of water entering buildings from municipal water mains to avoid ruptured pipes and damaged fixtures in commercial, industrial, or institutional facilities.

Pipe Size	L	Material	Mfr. Model	Item No.
½"	3 1/16"	Brass	FB-38	**6LFA4**
	6 1/16"	Cast Iron/Brass	8	**6LFA2**
	6 1/16"	Brass	F-3	**6LFA5**
¾"	3"	Brass	B7-12	**6LFA3**



No. 4JB11

Bell & Gossett
a xylem brand

Enhanced Air Separators

- Max. pressure: 150 psi
- Max. temp.: 250°F

Remove 99% of entrained air in hydronic heating systems.

Material of Construc.	Max. Flow (gpm)	Inlet	Outlet	H (in.)	W (in.)	Mfr. Model	Item No.
Cast-Iron	35	1½" NPT	1½" NPT	8⅛	4½	1AS-1.5	**6ETT6**
	50	2" NPT	2" NPT	8⅛	4½	1AS-2	**6ETT7**
	75	2½" NPT	2½" NPT	10⅛	6⅜	1AS-2.5	**6ETT8**
Bronze	6	¾" NPT	¾" NPT	6⅞	3⅝	EASB-3/4JR	**4JB11**
	12	1" NPT	1" NPT	6⅞	3⅝	EASB-1JR	**4JB12**
	20	1¼" NPT	1¼" NPT	7½	4⅝	EASB-1-1/4 JR	**4JB13**
	30	1½" NPT	1½" NPT	7½	4⅝	EASB-1-1/2 JR	**4JB17**
Brass	—	⅛" MNPT	—	3 9/16	1½	67	**6LFC1**
	—	¾" MNPT, ½" FNPT	—	4¾	2¼	87	**6ETU7**

Boiler Feed Pump System and Condensate Removal Return Systems

Hoffman

- ⅓ HP
- Max. liquid temp.: 210°F
- 115/230VAC
- Motor enclosure: ODP
- ¾" NPT discharge port

Continuous-duty replacement pumps fit most heating systems. Feature cast-iron volute with bronze impeller and wear ring. Float-operated internal water makeup feeder has ½" NPT connection. Water-level gauge with protective brass rods and shutoff valves. Receiver has 2" NPT low return inlet port, 2" NPT vent line port, 2" NPT overflow port, and ½" NPT drain port. 4-bolt flange mounting.

Type	No. of Pumps	Pump Flow (gpm)	Discharge Pressure (psi)	Receiver Size (gal.)	Tank Material	EDR Rating*	Voltage	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Boiler Feed Pump												
Simplex	1	15	20	50	Welded Steel	7000	115/230	33½	27	30¼	50VBFS-B	**4RD34**
Duplex	2	15	20	50	Welded Steel	15,000	115/208-230	39	24 7/16	24 1/16	50HBFD-1520	**5DPY9**
Duplex	2	15	20	100	Welded Steel	15,000	115/208-230	52½	30⅞	30 1/16	100HBFD-1520	**5DPZ0**
Watchman Condensate Return System												
Simplex	1	12	21	9	Cast-Iron	8000	115/230	16½	22¾	12 5/16	WC8-20B	**4RD31**
Simplex	1	18	20	14	Cast-Iron	12,000	115/230	22½	22¾	12 5/16	WC12-20B	**4RD32**
Simplex	1	18	20	14	Welded Steel	12,000	115/230	22½	23⅞	12 5/16	WCS12-20B	**4RD29**
Duplex	2	18	20	14	Cast-Iron	12,000	115/230	22½	22¾	12 5/16	WCD12-20 B-MA	**4RD33**
Duplex	2	18	20	14	Welded Steel	12,000	115/230	22½	22⅞	12 5/16	WCSD12-20 B-MA	**4RD30**

** EDR = equivalent direct radiation.*


No. 4RD34

Hoffman

Replacement Condensate Removal Pump

- ⅓-HP
- Motor enclosure: ODP
- ¾" NPT discharge port

Efficient pump returns condensate to the boiler in nongravity situations. Fits most systems, but may require an adapter.

WARNING: Use only with nonflammable liquids compatible with pump component materials and in nonflammable/ nonexplosive atmospheres.

Full Load Amps @ 115/230V	GPM of Water @ 30 ft. of Head	GPM of Water @ 40 ft. of Head	GPM of Water @ 50 ft. of Head	Max. Head (ft.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
7.2/4.0	33	26	12	56	9 1/16	6¼	12⅝	609PF	**4RD67**



Expansion Tanks and Accessories

FLEXCON INDUSTRIES The Reliable Source
WATTS REGULATOR

- Factory precharged to 12 psi
- Max. liquid temp.: 240°F
- Max. pressure: 100 psi

Butyl rubber diaphragms. Brass Schrader valve with O-ring seal. Corrosion-resistant finish. Not for use in potable or open-loop systems. 5-yr. manufacturer's warranty.

Tank (gal.)	H (in.)	Dia. (in.)	Connec. (in.)	Brand	Mfr. Model	Item No.
Expansion Tank						
2.1	12½	8	½ M	Flexcon	HTX 15	**3GVU5**
4.5	14	11	½ M	Flexcon	HTX 30	**3GVU6**
6.0	17 13/64	11 13/32	½ M	Flexcon	HTX 60	**3GVU7**
15.0	21½	16	¾ M	Flexcon	HTX90	**2P670**
20.0	28.8	16	1 F	Flexcon	SXHT40	**2P671**
Expansion Tank with Fill Valve						
2.1	12½	8	½ M	Flexcon	HTX 15FV	**3GVU3**
4.5	14	11	½ M	Flexcon	HTX 30FV	**3GVU4**

Item	Inlet	Material of Construc.	Brand	Mfr. Model	Item No.
Tank Accessories					
Automatic Dual Air Vent Valve	⅛" MNPT	Brass	Watts	⅛ DUO-VENT NPT	**3EJF7**
Enhanced Air Separator	1" NPT	Cast Iron	Watts	1 AS-M1 T	**3EJG5**
Enhanced Air Separator	1¼" NPT	Cast Iron	Watts	11/4 AS-M1 T	**3EJG6**
Automatic Vent Valve	⅛" MNPT	Brass	Watts	FV-4-1/8	**4A820**
Automatic Vent Valve	¼" MNPT	Brass	Watts	FV-4-1/4	**4A821**


No. 3GVU6


No. 4A820

PlenumPlus™ Condensate Removal Pumps

HARTELL
an Accudyne Industries brand

Use to collect and automatically remove water produced from an air conditioner evaporative coil and/or a gas-condensing furnace. Ideal for use in plenum spaces since the pump, in the event of a fire, won't distribute smoke throughout the plenum. Models feature an auxiliary safety switch and thermal overload protection. UL Recognized (Std. 2043, Third Edition).

Small Reservoir—Suitable for installation in tight spaces and include a built-in check valve.

Large Reservoir—No. 48PX14 has a rugged, cast-aluminum reservoir and maintenance-free ball bearings. Design allows you easy wire access.

Nos. 48PX15 to 48PX20 feature an inlet and discharge that rotate to ease piping and tubing installation.

HP	Voltage	Reservoir Capacity	Discharge Size	Max Head	Max. Temp	Max. Pressure	Mfr. Model	Item No.
Small Reservoir								
1/30	115V AC	¼ gal	⅜ in Barb	18 ft	212°F	7.8 psi	KL-1DG-115	**48PX21**
	230V AC		⅜ in Barb	18 ft	212°F	7.8 psi	KL-1DG-230	**48PX22**
	277V AC		⅜ in Barb	18 ft	212°F	7.8 psi	KL-1DG-277	**48PX23**
Large Reservoir								
1/10	115 to 230V AC	1 gal	⅜ in FNPT	20 ft	150°F	8.5 psi	A2-X-1965	**48PX14**
	115V AC		⅜ in Copper Tube	30 ft	212°F	13 psi	A3X-115	**48PX15**
½	115V AC		½ in Copper Tube	60 ft	212°F	26 psi	A5X-115	**48PX18**
1/20	115V AC		⅜ in I. D.	22 ft	110°F	9 psi	PABX-115	**411M28**
1/10	208 to 230V AC		½ in Copper Tube	30 ft	212°F	13 psi	A3X-230	**48PX16**
½	208 to 230V AC		½ in Copper Tube	60 ft	212°F	26 psi	A5X-230	**48PX19**
1/10	277V AC		½ in Copper Tube	30 ft	212°F	13 psi	A3X-277	**48PX17**
½	380 to 460V AC		½ in Copper Tube	60 ft	212°F	26 psi	A5X-460	**48PX20**


No. 48PX21


No. 48PX18



Low Profile Pump, Small Reservoir No. 3P730



Condensate Pump, Small Reservoir No. 3EUD4



Condensate Pump, Medium Reservoir No. 2P351



Condensate Pump, Large Reservoir No. 2P096



In-Pan Pump, Medium Reservoir No. 2GZG1



In-Pan Pump, Large Reservoir No. 2GZG2



In-Pan Pump, No Reservoir No. 2GZG4



Mini-Split Pump, No Reservoir No. 12J044

Condensate Removal Pumps

LittleGIANT · Dayton · MOVINCOOL The #1 Spot Cooling Solution

- Thermal overload protection

Use where gravity drainage is not available to remove condensation in high-efficiency gas furnaces, condensing boilers, air conditioning units, and other no-gravity applications. All except Mini-Split have a 6-ft. power cord with 3-prong molded plug.

Low Profile Pumps, Small Reservoir— Compact design allows use in limited-space installations where the incoming drain line is too low for Medium Reservoir units.

Condensate Pumps, Small Reservoir— Oil-resistant tank has removable check valve; for simple service with no water spills. Rubber feet absorb vibration on hard-surface installations. Include overflow switch assembly, 20 ft. of vinyl tubing, and mounting bracket. No. 3EUD6 has a foam tank sleeve to help prevent water damage.

Condensate Pumps, Medium Reservoir— Have a high-impact polymer pump base, stainless steel shaft, and ABS plastic tank cover and switch housing. With fan-cooled motor, integral sump tank, control float, check valve, and overflow switch. All models include 20-ft of tubing except Nos. 45LV97, 2P350, 45LW07, and 2P351.

Condensate Pumps, Large Reservoir— Larger tank with galvanized steel tank cover can accommodate higher-flow drain periods or cycling. Include low-voltage overflow switch (except Nos. 45LW04, 45LW01, and 45LW05).

In-Pan Pump, Medium Reservoir— Can be used in or out of supplied tank. Molded plastic volute, impeller,

and screen. Epoxy-coated aluminum, oil-filled motor housing and a float-operated

mechanical switch.

In-Pan Pump, Large Reservoir— Larger tank with galvanized steel tank cover can accommodate higher-flow drain periods or cycling.

In-Pan Pump, No Reservoir— Can be used in or out of supplied tank. Molded plastic volute, impeller, and screen. Epoxy-coated aluminum, oil-filled motor housing and a float-operated mechanical switch.

Mini-Split Pumps, No Reservoir— Designed for wall-mount ductless mini split air conditioners. The fully automatic pump has a clear, oversize reservoir. Water-cooling jacket draws heat away from motor for quieter operation. Features an overflow shut-down switch (wiring included). Kit includes wiring cables, connecting tubes, positioning template, installation hardware, and a cover that can blend into any decor. Power cord sold separately.

Condensate Overflow Detection Switches— Switch immediately shuts unit off or activates an alarm switch if an air handling unit becomes clogged or a condensate reservoir is filled to capacity.

Auxiliary Condensate Switch No. 3XY17 has 6-ft. leads and 18 AWG wire.

Auxiliary Safety Switch No. 4NY29 Installs in drain line to detect downstream clogs and includes 6-ft. leads and 24 AWG wire.

HP	Voltage	Reservoir Capacity	Discharge Size	Max Head	Max. Temp	Amps	L	W	H	Brand	Item No.
Low Profile Pumps, Small Reservoir											
1/30	120VAC	1/4 gal.	3/8" Barb	20 ft.	120°F	1.5	12"	5"	5"	Little Giant	**3P730**
1/30	230VAC	1/4 gal.	3/8" Barb	17 ft.	120°F	0.5	12"	5"	5"	Little Giant	**4RL08**
Condensate Pumps, Small Reservoir											
1/30	115VAC	1/3 gal.	3/8" Barb	21 ft.	140°F	1.5	10 13/64"	4 51/64"	6 1/2"	Little Giant	**3EUD4**
1/30	115VAC	1/3 gal.	3/8" Barb	21 ft.	140°F	1.5	10 13/64"	4 51/64"	6 1/2"	Little Giant	**3EUD7**
1/30	115VAC	1/3 gal.	3/8" Barb	21 ft.	140°F	1.5	10 5/16"	5 7/64"	6 51/64"	Little Giant	**3EUD6**
1/30	230VAC	1/3 gal.	3/8" Barb	19 ft.	140°F	0.6	10 13/64"	4 51/64"	6 1/2"	Little Giant	**3EUD5**
Condensate Pumps, Medium Reservoir											
1/50	115VAC	1/2 gal.	3/8" Barb	15 ft.	140°F	1.0	11"	5"	7"	Dayton	**45LV97**
1/50	120VAC	1/2 gal.	3/8" Barb	15 ft.	140°F	1.0	10 1/2"	5"	7"	Little Giant	**2P350**
1/30	115VAC	1/2 gal.	3/8" Barb	20 ft.	140°F	1.2	11"	5"	7"	Dayton	**45LW07**
1/30	115VAC	1/2 gal.	3/8" Barb	20 ft.	140°F	1.5	11"	5"	7"	Dayton	**45LW03**
1/30	115VAC	1/2 gal.	3/8" I. D.	20 ft.	140°F	1.5	11"	5"	7"	Movincool	**5AE91**
1/30	115VAC	1/2 gal.	3/8" Barb	20 ft.	140°F	1.5	10 1/2"	5"	7"	Little Giant	**2P351**
1/30	230VAC	1/2 gal.	3/8" Barb	17 ft.	140°F	0.5	11"	5"	7"	Dayton	**45LW06**
1/30	230VAC	1/2 gal.	3/8" Barb	17 ft.	140°F	0.5	11"	5"	7"	Dayton	**45LW08**
1/30	230VAC	1/2 gal.	3/8" I. D.	17 ft.	140°F	0.5	11"	5"	7"	Movincool	**36P698**
1/30	230VAC	1/2 gal.	3/8" Barb	17 ft.	140°F	0.5	10 1/2"	5"	7"	Little Giant	**4RL07**
Condensate Pumps, Large Reservoir											
1/50	120VAC	1 gal.	3/8" Barb	14 ft.	110°F	1.0	12"	6"	9 3/4"	Little Giant	**3P731**
1/18	115VAC	1 gal.	3/8" Barb	24 ft.	110°F	2.5	12"	6"	10 1/2"	Little Giant	**3P732**
1/18	115VAC	1 gal.	3/8" Barb	24 ft.	120°F	2.5	12"	6"	10 1/2"	Dayton	**45LV96**
1/18	230VAC	1 gal.	3/8" Barb	24 ft.	120°F	1.1	12"	6"	10 1/2"	Little Giant	**4RL05**
1/18	230VAC	1 gal.	3/8" Barb	24 ft.	120°F	1.2	12"	6"	10 1/2"	Dayton	**45LW04**
1/6	115VAC	1 gal.	3/8" Copper Tube	45 ft.	120°F	3.5	12"	6"	10 1/2"	Dayton	**45LW01**
1/6	120VAC	1 gal.	3/8" Copper Tube	45 ft.	110°F	3.5	12"	6"	10 1/2"	Little Giant	**2P096**
1/5	230VAC	1 gal.	3/8" Copper Tube	45 ft.	120°F	1.0	12"	6"	10 1/2"	Little Giant	**4RL06**
1/5	230VAC	1 gal.	3/8" Copper Tube	45 ft.	120°F	1.0	12"	6"	10 1/2"	Dayton	**45LW05**
In-Pan Pump, Medium Reservoir											
1/40	120VAC	1/2 gal.	1/4" MNPT	12 ft.	120°F	1.7	9"	4 39/64"	4 1/8"	Little Giant	**2GZG1**
In-Pan Pump, Large Reservoir											
1/12	120VAC	1 gal.	1/2" MNPT	26 ft.	120°F	3.5	12"	6"	6 1/2"	Little Giant	**2GZG2** †
In-Pan Pump, No Reservoir											
1/150	120VAC	No Reservoir	1/4" MNPT	10 ft.	120°F	1.1	7 1/16"	3 3/4"	4 7/16"	Little Giant	**2GZG4**
Mini-Split Pumps, No Reservoir											
—	110 to 240VAC	—	1/4" O. D.	60 ft.	120°F	0.18	4 1/8"	1 7/8"	2 3/8"	Little Giant	**45LW02**
—	230VAC	—	5/32" Barb	29 ft.	120°F	.1	8 1/4"	3 5/32"	3 1/2"	Little Giant	**12J044**
Accessories											
Auxiliary Condensate Switch										Little Giant	**3XY17**
Auxiliary Safety Switch										Little Giant	**4NY29**
Check Valve For Use With 2P095 and 4RL03										Little Giant	**4RL37**
Check Valve For Use With Mfr. No. VCC-20ULS, VCMA15ULS-554914, VCMA-20ULS, 3P73, VCL-24ULS, VCL-24ULS-230, VCMA-20ULS-230, VCC-20ULS-230										Little Giant	**4RL39**
Check Valve For Use With Mfr. No. VCC-20ULS, VCMA15ULS-554914, VCMA-20ULS, VCL-14ULS, VCL-24ULS, VCL-24ULS-230, VCMA-20ULS-230, VCC-20ULS-230										Little Giant	**4RL40**
Check Valve For Use With Mfr. No. VCL-45S, VCL-45ULS-230										Little Giant	**4RL38**

† Contains a fully submersible pump unit.

Diaphragm Pumps—Housing Materials

Aluminum—Lightweight and can transfer paints, petroleum products, and oils.

Cast-Iron—For heavy-duty industrial applications and abrasive products.

Groundable Acetal—For use in solvent transfer. Metallic fibers in the resin renders the material conductive to eliminate static charge buildup.

Kynar®—High-performance fluoropolymer resin has good chemical resistance at higher temperatures.

Polypropylene—Resists many caustics and a wide variety of nonaggressive water-based liquids.

PVDF (Polyvinylidene Fluoride)—Low thermal conductivity and highly resistant to acids, bases, and solvents.

Stainless Steel—High corrosion and chemical resistance and ideal for use with acids, caustics, and solvents.

Dayton® Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 10 ft. dry
- Run-dry capability

Portable, intrinsically safe models resist overheating and are suitable for acids, caustics, and solvents, to high-viscosity shear sensitive liquids including paints, inks, and adhesives. Ideal for general pump transfer, recirculation, dispensing, spraying, and filling.



No. 3HJV9



No. 6PY34

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing												
¼ in	NPT	¼ in FNPT	3.25	180°F	PTFE	PTFE	Acetal	Clear Liquid	Single	**6PY38**	**6PY61**	**6PY77**
Kynar® Housing												
¼ in	NPT	¼ in FNPT	3.25	212°F	PTFE	PTFE	Kynar®	Clear Liquid	Single	**3HJV7**	**6PY61**	**6PY77**
½ in	NPT	¼ in FNPT	15	212°F	PTFE	PTFE	Kynar®	1/32"	Single	**3HJV8**	**6PY62**	**6PY78**
1 in	NPT	⅜ in FNPT	35	212°F	PTFE	PTFE	Kynar®	3/16"	Single	**3HJV9**	**6PY64**	**22A610**
	NPT	⅜ in FNPT	49	212°F	Santoprene®	EPDM	Kynar®	3/16"	Single	**3HJW2**	**6PY60**	**22A610**
Polypropylene Housing												
¼ in	NPT	¼ in FNPT	3.25	180°F	PTFE	PTFE	Polypropylene	Clear Liquid	Single	**6PY37**	**6PY61**	**6PY77**
½ in	NPT	¼ in FNPT	15	180°F	PTFE	PTFE	Polypropylene	1/32"	Single	**6PY39**	**6PY62**	**6PY78**
	NPT	¼ in FNPT	15	180°F	Santoprene®	PTFE	Polypropylene	1/32"	Single	**6PY34**	**6PY58**	**6PY78**
¾ in	NPT	¼ in FNPT	21	180°F	PTFE	PTFE	Polypropylene	1/16"	Single	**6PY40**	**6PY63**	**22A610**
	NPT	¼ in FNPT	28	180°F	Santoprene®	EPDM	Polypropylene	1/16"	Single	**6PY35**	**6PY59**	**22A610**
1 in	NPT	⅜ in FNPT	35	180°F	PTFE	PTFE	Polypropylene	3/16"	Single	**6PY41**	**6PY64**	**22A610**
1 ½ in	Flange	½ in FNPT	120	180°F	PTFE	PTFE	Polypropylene	9/32"	Single	**3HJW3**	**22A612**	**6PY80**
1 in	NPT	⅜ in FNPT	49	180°F	Santoprene®	EPDM	Polypropylene	3/16"	Single	**6PY36**	**6PY60**	**22A610**
1 ½ in	Flange	½ in FNPT	115	180°F	Santoprene®	EPDM	Polypropylene	9/32"	Single	**3HJW5**	**22A613**	**6PY80**
2 in	Flange	¾ in FNPT	160	180°F	Santoprene®	EPDM	Polypropylene	5/16"	Single	**3HJW6**	**22A616**	**6PY80**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

ARO® Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 10 ft. dry
- Run-dry capability

Lightweight, easy-to-transport pumps are air operated to reduce exhaust and spark hazards. Suitable for pumping thick, solids-laden liquids and slurries in applications such as mining and dewatering.



No. 5XA64



No. 19RU82



No. 5U668

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing													
⅜ in	NPT	¼ in FNPT	10.6	180°F	Hytrel	Hytrel	Acetal	1/16"	Multiport	PD03P-AES-DCC	**2CAU5**	**33RM97**	**5XB26**
	NPT	¼ in FNPT	10.6	180°F	Hytrel	Hytrel	Acetal	1/16"	Single	PD03P-ADS-DCC	**2CAU4**	**33RM97**	**5XB26**
	NPT	¼ in FNPT	10.6	180°F	PTFE	PTFE	Acetal	1/16"	Multiport	PD03P-AES-DTT	**2CAU3**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	180°F	PTFE	PTFE	Acetal	1/16"	Single	PD03P-ADS-DTT	**2CAU2**	**5XB20**	**5XB26**
½ in	NPT	¼ in FNPT	14	180°F	PTFE	PTFE	Acetal	3/32"	Multiport	PD05P-AES-DTT-B	**5XA68**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	14	180°F	Santoprene®	Santoprene®	Acetal	3/32"	Multiport	PD05P-AES-DAA-B	**5XA69**	**5XB23**	**5XB26**
Aluminum Housing													
1 ½ in	NPT	½ in FNPT	80	180°F	Nitrile	Nitrile	Aluminum	½"	Single	66M150-122-C	**3FPX9**	**3FPZ5**	—
	NPT	½ in FNPT	80	225°F	Santoprene®	Santoprene®	Aluminum	½"	Single	66M150-1EB-C	**3FPY1**	—	**2TV35**
2 in	NPT	¾ in FNPT	156	180°F	Nitrile	Nitrile	Aluminum	¾"	Single	66M250-122-C	**3FPY2**	**3FPZ2**	**4CWJ3**
	NPT	¾ in FNPT	156	225°F	Santoprene®	Santoprene®	Aluminum	¾"	Single	66M250-1EB-C	**3FPY6**	**3FPZ1**	**4CWJ3**
3 in	NPT	¾ in FNPT	217	180°F	Nitrile	Nitrile	Aluminum	1"	Single	66M300-122-C	**3FPY4**	**3FPY8**	**4CWJ3**
	NPT	¾ in FNPT	217	225°F	Santoprene®	Santoprene®	Aluminum	1"	Single	66M300-1EB-C	**3FPY5**	**3FPZ1**	**4CWJ3**
Kynar® Housing													
⅜ in	NPT	¼ in FNPT	10.6	200°F	PTFE	PTFE	Kynar®	1/16"	Multiport	PD03P-ALS-KTT	**2CAU7**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	200°F	PTFE	PTFE	Kynar®	1/16"	Single	PD03P-AKS-KTT	**2CAU6**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	200°F	Santoprene®	Santoprene®	Kynar®	1/16"	Multiport	PD03P-ALS-KAA	**2CAU9**	**5XB21**	**5XB26**
½ in	NPT	¼ in FNPT	14	200°F	PTFE	PTFE	Kynar®	3/32"	Multiport	PD05P-ALS-KTT-B	**5XA64**	**5XB24**	**5XB26**
Polypropylene Housing													
¼ in	NPT	¼ in FNPT	5.3	225°F	PTFE	PTFE	Acetal	1/16"	Single	PD01E-HDS-DTT-A	**19RU84**	—	—
	NPT	¼ in FNPT	5.3	225°F	PTFE	PTFE	Kynar®	1/16"	Single	PD01P-HKS-KTT-A	**19RU85**	—	—
	NPT	¼ in FNPT	5.3	225°F	PTFE	PTFE	Polypropylene	1/16"	Single	PD01P-HPS-PTT-A	**19RU81**	—	—
	NPT/BSP	¼ in FNPT	5.3	225°F	Santoprene®	Santoprene®	Polypropylene	1/16"	Single	PD01P-HPS-PAA-A	**19RU82**	—	—
⅜ in	NPT	¼ in FNPT	10.6	150°F	PTFE	PTFE	Polypropylene	1/16"	Single	PD03P-APS-PTT	**5XA66**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	150°F	Santoprene®	Santoprene®	Polypropylene	1/16"	Multiport	PD03P-ARS-PAA	**2CAU1**	**5XB21**	**5XB26**
	NPT	¼ in FNPT	10.6	150°F	Santoprene®	Santoprene®	Polypropylene	1/16"	Single	PD03P-APS-PAA	**5XA65**	**5XB21**	**5XB26**
½ in	NPT	¼ in FNPT	13	150°F	PTFE	PTFE	Polypropylene	3/32"	Multiport	66605J-344	**2CAP5**	**4RM99**	**4RN03**
	NPT	¼ in FNPT	13	150°F	PTFE	PTFE	Polypropylene	3/32"	Single	666053-344	**2CAP6**	**4RM99**	**4RN03**
	NPT	¼ in FNPT	13	150°F	Santoprene®	Santoprene®	Polypropylene	3/32"	Multiport	66605J-3EB	**5U669**	**4RN02**	**4RN03**
	NPT	¼ in FNPT	13	150°F	Santoprene®	Santoprene®	Polypropylene	3/32"	Single	666053-3EB	**5U663**	**4RN02**	**4RN03**
	NPT	¼ in FNPT	13	150°F	Urethane	Polyurethane	Polypropylene	3/32"	Multiport	66605J-388	**5U668**	**4RN01**	**4RN03**
	NPT	¼ in FNPT	13	150°F	Urethane	Urethane	Polypropylene	3/32"	Single	666053-388	**2CAP4**	**4RN01**	**4RN03**
	NPT	¼ in FNPT	14	150°F	Nitrile	Nitrile	Polypropylene	3/32"	Multiport	PD05P-ARS-PGG-B	**5XA63**	**6WU23**	**5XB26**
	NPT	¼ in FNPT	14	150°F	Polyurethane	Polyurethane	Polypropylene	3/32"	Multiport	PD05P-ARS-PUU-B	**5XA57**	**5XB22**	**5XB26**
	NPT	¼ in FNPT	14	150°F	PTFE	PTFE	Polypropylene	3/32"	Multiport	PD05P-ARS-PTT-B	**5XA59**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	14	150°F	Santoprene®	Santoprene®	Polypropylene	3/32"	Multiport	PD05P-ARS-PAA-B	**5XA58**	**5XB23**	**5XB26**
¾ in	NPT	¼ in FNPT	15	150°F	PTFE	PTFE	Polypropylene	1/8"	Single	PD07P-APS-PTT	**2UV60**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	15	150°F	Santoprene®	Santoprene®	Polypropylene	1/8"	Single	PD07P-APS-PAA	**2UV59**	**5XB23**	**5XB26**
1 in	Flange	¼ in FNPT	47	150°F	PTFE	PTFE	Polypropylene	1/8"	Flanged	6661A3-344-C	**2P774**	**4RN04**	**4RM92**
	Flange	¼ in FNPT	47	150°F	Santoprene®	PTFE	Polypropylene	1/8"	Flanged	6661A3-34B-C	**5U667**	**33RM98**	**4RM92**
1 ½ in	Flange	½ in FNPT	100	150°F	Neoprene	Neoprene	Polypropylene	1/4"	Flanged	6661U3-311-C	**5U675**	**26JX73**	**4RM92**
	Flange	½ in FNPT	100	150°F	PTFE	PTFE	Polypropylene	1/4"	Flanged	6661U3-344-C	**5U674**	**4RN07**	**4RM92**
1 in	NPT	¼ in FNPT	47	150°F	Nitrile	Nitrile	Polypropylene	1/8"	Single	6661AJ-322-C	**4GY44**	**4GY43**	**4RM92**
	NPT	¼ in FNPT	47	150°F	PTFE	PTFE	Polypropylene	1/8"	Single	6661AJ-344-C	**4GY45**	**4RN04**	**4RM92**
	NPT	¼ in FNPT	47	150°F	Santoprene®	Santoprene®	Polypropylene	1/8"	Single	6661AJ-3EB-C	**4GY48**	**4RN05**	**4RM92**
2 in	Flange	½ in FNPT	139	150°F	Neoprene	Neoprene	Polypropylene	1/4"	Flanged	6662B3-311-C	**5U680**	**26JX73**	**4RM92**
	Flange	½ in FNPT	139	150°F	PTFE	PTFE	Polypropylene	1/4"	Flanged	6662B3-344-C	**5U679**	**4RN07**	**4RM92**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1.*

For an explanation of diaphragm pump housing materials, see page 2663.

Sandpiper® Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 20 ft. dry
- Run-dry capability

Ideal for pumping solvents, slurries, and high-viscosity liquids such as paints and inks. Feature all-bolted construction and abrasion- and corrosion-resistant materials. Free-standing support base is useful in portable applications.



No. 29AU45



No. 12W417

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing													
¼"	NPT	¼" FNPT	4	220°F	PTFE	PTFE	Acetal	1/32"	Single	PB ¼,TT3CA.	**29AU45**	**39L597**	**39L598**
	NPT	¼" FNPT	4	275°F	Santoprene®	Santoprene®	Acetal	1/32"	Single	PB ¼,TS3CA.	**29AU44**	**39L596**	**39L598**
½"	NPT	¼" FNPT	14	220°F	PTFE - Santoprene Backup	PTFE	—	⅛	Single	S05B2G2TXNS000	**29AU51**	**39L602**	—
	NPT	¼" FNPT	14	275°F	Santoprene®	Santoprene®	—	⅛	Single	S05B2G1TXNS000	**29AU50**	**39L599**	—
Polypropylene Housing													
¼"	NPT	¼" FNPT	4	220°F	PTFE	PTFE	Polypropylene	1/32"	Single	PB ¼,TT3PP.	**12W413**	**39L597**	**39L598**
	NPT	¼" FNPT	4	275°F	Santoprene®	Santoprene®	Polypropylene	1/32"	Single	PB ¼,TS3PP.	**12W412**	**39L596**	**39L598**
½"	NPT	¼" FNPT	14	190°F	Buna	Buna	PTFE	⅛"	Multiport	S05B2PBTPNI000	**12W415**	**39L601**	**39L605**
	NPT	¼" FNPT	14	220°F	PTFE - Santoprene Backup	PTFE	PTFE	⅛"	Multiport	S05B2P2TPNI000	**12W416**	**39L602**	**39L605**
	NPT	¼" FNPT	14	220°F	Santoprene®	Santoprene®	PTFE	⅛"	Multiport	S05B2P1TPNI000	**12W414**	**39L599**	**39L605**
¾"	NPT	¼" FNPT	23	180°F	PTFE - Santoprene Backup	PTFE	Polypropylene	3/20"	Single	S07B1P2PPNS000	**12W418**	**39L604**	**39L605**
	NPT	¼" FNPT	23	180°F	Santoprene®	Santoprene®	Polypropylene	3/20"	Single	S07B1P1PPNS000	**12W417**	**39L603**	**39L605**
1"	NPT	½" FNPT	53	180°F	Buna	Buna	Polypropylene	¼"	Multiport	S1FB3PBPPNI000	**12W420**	—	**39L609**
	NPT	½" FNPT	53	180°F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼"	Multiport	S1FB3P2PPNI000	**12W421**	**39L608**	**39L609**
	NPT	½" FNPT	53	180°F	Santoprene®	Santoprene®	Polypropylene	¼"	Multiport	S1FB3P1PPNI000	**12W419**	**39L606**	**39L609**
1½"	Flange	¾" FNPT	100	180°F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼"	Single	S15B3P2PPAS000	**15U532**	**39L618**	**39L621**
	Flange	¾" FNPT	100	180°F	Santoprene®	Santoprene®	Polypropylene	¼"	Single	S15B3P1PPAS000	**15U531**	**39L617**	**39L621**
2"	Flange	¾" FNPT	150	180°F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼"	Single	S20B3P2PPUS000	**15U534**	**39L620**	**39L621**
	Flange	¾" FNPT	150	180°F	Santoprene®	Santoprene®	Polypropylene	¼"	Single	S20B3P1PPUS000	**15U533**	**39L619**	**39L621**
PVDF Housing													
¼"	NPT	¼" FNPT	4	220°F	PTFE	PTFE	PVDF	1/32"	Single	PB ¼,TT3K.	**29AU47**	**39L597**	**39L598**
	NPT	¼" FNPT	4	275°F	Santoprene®	Santoprene®	PVDF	1/32"	Single	PB ¼,TS3K.	**29AU46**	**39L596**	**39L598**
½"	NPT	¼" FNPT	14	220°F	PTFE - Santoprene Backup	PTFE	—	⅛	Multiport	S05B2K2TPNS000	**29AU49**	**39L602**	**39L605**
	NPT	¼" FNPT	14	220°F	Santoprene®	Santoprene®	—	⅛	Multiport	S05B2K1TPNS000	**29AU48**	**39L599**	**39L605**
¾"	NPT	½" FNPT	23	220°F	PTFE - Santoprene Backup	PTFE	PVDF	¼"	Single	S07B1K2KPNS000	**29AU53**	**39L604**	**39L605**
	NPT	½" FNPT	23	250°F	Santoprene®	Santoprene®	PVDF	¼"	Single	S07B1K1KPNS000	**29AU52**	**39L603**	**39L605**
1"	Flange	¼" FNPT	23	220°F	PTFE - Santoprene Backup	PTFE	PVDF	3/20"	Single	S10B1K2KPAS000	**29AU55**	**39L604**	**39L605**
	Flange	¼" FNPT	23	250°F	Santoprene®	Santoprene®	PVDF	3/20"	Single	S10B1K1KPAS000	**29AU54**	**39L603**	**39L605**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

Versa-Matic® Air-Operated Double Diaphragm Pumps

Standard-duty band clamp construction eases maintenance. Interchangeable with Wilden Original Series pumps. Self-priming and feature the Elima-Matic® Air Valve System for no stalling, lube-free performance.



No. 4GGF9



No. 4GGF5

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½"	NPT	⅜" FNPT	12	180°F	Buna N	Buna N	Buna-N	1/16"	Single	E5AP2R229C	**20LR16**	**30YF23**	**22A481**
	NPT	⅜" FNPT	12	220°F	PTFE	PTFE	—	1/16"	Single	E5AP5T559C	**20LR18**	**30YF25**	**22A481**
	NPT	⅜" FNPT	12	300°F	Santoprene®	Santoprene®	Santoprene®	1/16"	Single	E5AP6X669C	**20LR17**	**30YF24**	**22A481**
1"	NPT	⅜" FNPT	49	180°F	Buna N	Buna N	Buna-N	⅛	Single	E1AA2R229C-ATEX	**20LR25**	**30YF29**	**30YF44**
	NPT	⅜" FNPT	49	220°F	PTFE	PTFE	—	⅛	Single	E1AA5T559C-ATEX	**20LR27**	**30YF31**	**30YF44**
	NPT	⅜" FNPT	49	300°F	Santoprene®	Santoprene®	Santoprene®	⅛	Single	E1AA6X669C-ATEX	**20LR26**	**30YF30**	**30YF44**
1¼"	NPT	½" FNPT	70	180°F	Buna N	Buna N	Buna-N	3/16"	Single	E4AA2R220	**4GGG3**	**33TC29**	**22A483**
	NPT	½" FNPT	70	220°F	PTFE	PTFE	Aluminum	3/16"	Single	E4AA5T5A0	**4GGG4**	**33TC30**	**22A483**
	NPT	½" FNPT	70	300°F	Santoprene®	Santoprene®	Santoprene®	3/16"	Single	E4AA6X660	**4GGG5**	**33TC28**	**22A483**
2"	NPT	½" FNPT	155	180°F	Buna N	Buna N	Buna-N	¼"	Single	E2AA2R220C-ATEX	**4GGF2**	**33TC39**	**22A484**
	NPT	½" FNPT	155	220°F	PTFE	PTFE	Aluminum	¼"	Single	E2AA5T5A0C-ATEX	**4GGF3**	**33TC31**	**22A484**
	NPT	½" FNPT	155	300°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	E2AA6X660C-ATEX	**4GGF4**	**33TC38**	**22A484**
3"	NPT	½" FNPT	230	180°F	Buna N	Buna N	Buna-N	⅜"	Single	E3AA2R220C-ATEX	**4GGF7**	**33TC33**	**22A485**
	NPT	½" FNPT	230	220°F	PTFE	PTFE	Aluminum	⅜"	Single	E3AA5T5A0C-ATEX	**4GGF8**	**33TC34**	**22A485**
	NPT	½" FNPT	230	300°F	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	E3AA6X660C-ATEX	**4GGF9**	**33TC32**	**22A485**
Polypropylene Housing													
½"	NPT	⅜" FNPT	10	175°F	PTFE	PTFE	—	1/16"	Multiport	E5PP5T5T9C	**20LR24**	**30YF28**	**22A481**
	NPT	⅜" FNPT	11	175°F	Buna N	Buna N	Buna-N	1/16"	Multiport	E5PP2R229C	**20LR22**	**30YF26**	**22A610**
	NPT	⅜" FNPT	11	175°F	Santoprene®	Santoprene®	Santoprene®	1/16"	Multiport	E5PP6X669C	**20LR23**	**30YF27**	**22A481**
1"	NPT	⅜" FNPT	45	175°F	Buna N	Buna N	Buna-N	⅛	Single	E1PA2R229C	**20LR31**	**30YF35**	**30YF44**
	NPT	⅜" FNPT	45	175°F	PTFE	PTFE	—	⅛	Single	E1PA5T5T9C	**20LR33**	**30YF37**	**30YF44**
	NPT	⅜" FNPT	45	175°F	Santoprene®	Santoprene®	Santoprene®	⅛	Single	E1PA6X669C	**20LR32**	**30YF36**	**30YF44**
1½"	Flange	½" NPT	72	175°F	Buna N	Nitrile	Nitrile	3/16	Single	E4PA2R229	**20LR34**	**30YF38**	**22A483**
	Flange	½" FNPT	72	175°F	PTFE	PTFE	—	3/16	Single	E4PA5F5T9	**20LR36**	**30YF40**	**22A483**
	Flange	½" FNPT	72	175°F	Santoprene®	Santoprene®	Santoprene®	3/16	Single	E4PA6X669	**20LR35**	**30YF42**	**22A483**
2"	Flange	½" FNPT	177	175°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	E2PA6D669C	**20LR38**	**30YF42**	**22A484**
	NPT	½" FNPT	177	175°F	Buna N	Buna N	Buna-N	¼"	Single	E2PA2D229C	**20LR37**	**30YF41**	**22A484**
	NPT	½" FNPT	177	220°F	PTFE	PTFE	—	¼"	Single	E2PA5F5T9	**20LR39**	—	**22A484**
Stainless Steel Housing													
½"	NPT	⅜" FNPT	12	180°F	Buna N	Buna N	Buna-N	1/16"	Single	E5SP2R229C	**20LR19**	**30YF23**	**22A481**
	NPT	⅜" FNPT	12	220°F	PTFE	PTFE	PTFE	1/16"	Single	E5SP5T559C	**20LR21**	**30YF25**	**22A481**
	NPT	⅜" FNPT	12	300°F	Santoprene®	Santoprene®	Santoprene®	1/16"	Single	E5SP6X669C	**20LR20**	**30YF24**	**22A481**
1"	NPT	⅜" FNPT	49	180°F	Buna N	Buna N	Buna-N	⅛	Single	E1SA2R229C-ATEX	**20LR28**	**30YF32**	**30YF44**
	NPT	⅜" FNPT	49	220°F	PTFE	PTFE	—	⅛	Single	E1SA5T559C-ATEX	**20LR30**	**30YF34**	**30YF44**
	NPT	⅜" FNPT	49	300°F	Santoprene®	Santoprene®	Santoprene®	⅛	Single	E1SA6X669C-ATEX	**20LR29**	**30YF33**	**30YF44**
1¼"	NPT	½" FNPT	70	220°F	PTFE	PTFE	Stainless Steel	3/16"	Single	E4SA5T5S0	**4GGE9**	**33TC35**	**22A483**
	NPT	½" FNPT	70	300°F	Santoprene®	Santoprene®	Santoprene®	3/16"	Single	E4SA6X660	**4GGF1**	**33TC28**	**22A483**
2"	NPT	½" FNPT	155	220°F	PTFE	PTFE	Stainless Steel	¼"	Single	E2SA5T5S0C-ATEX	**4GGF5**	**33TC36**	**22A484**
	NPT	½" FNPT	155	300°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	E2SA6X660C-ATEX	**4GGF6**	**33TC38**	**22A484**
3"	NPT	½" FNPT	230	220°F	PTFE	PTFE	Stainless Steel	⅜"	Single	E3SA5T5S0C-ATEX	**4GGG1**	**22A479**	**22A485**
	NPT	½" FNPT	230	300°F	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	E3SA6X660C-ATEX	**4GGG2**	**33TC32**	**22A485**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

Dayton® Metallic Air-Operated Double Diaphragm Pumps

Self-priming pumps can run dry and are capable of pumping slurries, solvents, and high-viscosity liquids, such as paints and waste oils. Spring-assisted air valve has proprietary seal rings and never requires lubrication. Nos. 22A592 and 22A593 are CSA Certified for operation using natural gas.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
316 Stainless Steel Housing												
½ in	NPT	¼ in FNPT	12	212°F	PTFE	PTFE	Stainless Steel	1/32"	Single	6PY51	6PY72	6PY78
¾ in	NPT	¼ in FNPT	21	212°F	PTFE	PTFE	Stainless Steel	1/16"	Single	6PY53	6PY73	6PY79
	NPT	¼ in FNPT	28	212°F	Santoprene®	EPDM	Stainless Steel	1/16"	Single	6PY47	6PY70	6PY79
1 in	NPT	⅜ in FNPT	35	212°F	PTFE	PTFE	Stainless Steel	3/16"	Single	6PY55	6PY74	6PY79
	NPT	⅜ in FNPT	49	212°F	Santoprene®	EPDM	Stainless Steel	3/16"	Single	6PY48	6PY71	6PY79
Aluminum Housing												
½ in	NPT	¼ in FNPT	12	180°F	Buna N	Buna N	Aluminum	1/32"	Single	6PY42	6PY65	6PY78
	NPT	¼ in FNPT	12	212°F	PTFE	PTFE	Aluminum	1/32"	Single	6PY49	6PY72	6PY78
	NPT	¼ in FNPT	12	212°F	Santoprene®	EPDM	Aluminum	1/32"	Single	3HJW7	22A611	6PY78
¾ in	NPT	¼ in FNPT	21	212°F	PTFE	PTFE	Stainless Steel	1/16"	Single	6PY52	6PY73	6PY79
	NPT	¼ in FNPT	27	212°F	PTFE	PTFE	Stainless Steel	1/16"	Single	34TJ41	6PY73	6PY79
	NPT	¼ in FNPT	28	180°F	Buna N	Buna N	Stainless Steel	1/16"	Single	6PY43	6PY66	6PY79
	NPT	¼ in FNPT	28	212°F	Santoprene®	EPDM	Stainless Steel	1/16"	Single	3HJW8	6PY70	6PY79
	NPT	¼ in FNPT	32	180°F	Buna N	Buna N	Aluminum	1/16"	Single	22A592	6PY66	6PY79
1 in	NPT	⅜ in FNPT	35	212°F	PTFE	PTFE	Stainless Steel	3/16"	Single	6PY54	6PY74	6PY79
	NPT	⅜ in FNPT	41	212°F	PTFE	PTFE	Stainless Steel	3/16"	Single	34TJ42	6PY74	6PY80
	NPT	⅜ in FNPT	46	180°F	Buna N	Buna N	Aluminum	3/16"	—	22A593	6PY67	6PY79
	NPT	⅜ in FNPT	49	180°F	Buna N	Buna N	Stainless Steel	3/16"	Single	6PY44	6PY67	6PY79
	NPT	⅜ in FNPT	49	212°F	Santoprene®	EPDM	Stainless Steel	3/16"	Single	3HJW9	6PY71	6PY79
1 ¼ in	NPT	⅜ in FNPT	50	180°F	Buna N	Buna N	Aluminum	3/16"	Single	22A594	6PY67	6PY79
1 ½ in	NPT	½ in FNPT	100	212°F	PTFE	PTFE	Aluminum	5/32"	Single	6PY56	—	6PY80
	NPT	½ in FNPT	115	180°F	Buna N	Buna N	Buna-N	5/32"	Single	6PY45	6PY68	6PY80
	NPT	½ in FNPT	115	212°F	Santoprene®	EPDM	Santoprene®	5/32"	Single	3HJX1	22A614	6PY80
2 in	NPT	¾ in FNPT	120	212°F	PTFE	PTFE	Aluminum	5/16"	Single	6PY57	6PY76	6PY80
	NPT	¾ in FNPT	150	180°F	Buna N	Buna N	Buna-N	2"	Single	34TJ47	34TJ48	6PY80
	NPT	¾ in FNPT	160	180°F	Buna N	Buna N	Buna-N	5/16"	Single	6PY46	6PY69	6PY80
	NPT	¾ in FNPT	160	212°F	Santoprene®	EPDM	Santoprene®	5/16"	Single	3HJX2	22A617	6PY80
3 in	NPT	¾ in FNPT	215	180°F	Buna N	Buna N	Buna-N	13/32"	Single	22A595	22A619	22A618
	NPT	¾ in FNPT	215	212°F	Santoprene®	Santoprene®	Santoprene®	13/32"	Single	22A596	22A620	22A618
Cast-Iron Housing												
1 ½ in	NPT	½ in FNPT	107	212°F	Santoprene®	Santoprene®	Santoprene®	9/32"	Single	22A598	22A614	6PY80
2 in	NPT	¾ in FNPT	164	212°F	Santoprene®	Santoprene®	Santoprene®	5/16"	Single	22A599	22A617	6PY80
3 in	NPT	¾ in FNPT	215	212°F	Santoprene®	Santoprene®	Santoprene®	13/32"	Single	22A601	22A620	22A618
Stainless Steel Housing												
½ in	NPT	¼ in FNPT	14	212°F	Santoprene®	Santoprene®	Stainless Steel	1/32"	Single	22A597	22A611	6PY78
1 ½ in	Flange	½ in FNPT	90	212°F	PTFE	PTFE	PTFE	9/32"	Single	34TJ43	—	6PY80
	Flange	½ in FNPT	102	180°F	Santoprene®	Santoprene®	Santoprene®	9/32"	Single	34TJ44	22A614	6PY80
2 in	Flange	¾ in FNPT	150	212°F	PTFE	PTFE	PTFE	5/16"	Single	34TJ45	6PY76	6PY80
	Flange	¾ in FNPT	160	180°F	Santoprene®	Santoprene®	Santoprene®	5/16"	Single	34TJ46	22A617	6PY80

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*



No. 6PY55



No. 6PY45

ARO® Metallic Air-Operated Double Diaphragm Pumps

Self-priming pumps are capable of running dry and can easily handle slurries, solvents, and other high-viscosity liquids. Constructed of highly fatigue- and abrasion-resistant materials. Air-pressure air valve design helps prevent stalling.

Flap Valve—Durable, multipurpose pump features thick-hinged flap check valves and thick-wall construction for higher solids handling.

Fuel—Identical inlet/outlet manifolds allow variable, interchangeable, and reversible installation. Suitable for use with gasoline, aviation fuel, diesel fuel, fuel oil, kerosene, and water. Meet UL Specification 79.

Aluminum, Split Manifold—Designed with dual inlets to pump and blend antifreeze and water to a 50/50 mixture.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½"	NPT	¼" FNPT	12	150°F	Nitrile	Nitrile	Polypropylene	3/32"	Multiport	PD05R-AAS-PGG-B	5XA61	6WU23	5XB26
	NPT	¼" FNPT	12	200°F	PTFE	PTFE	Stainless Steel	3/32"	Multiport	PD05R-AAS-STT-B	5XA62	5XB24	5XB26
	NPT	¼" FNPT	12	150°F	Santoprene®	Santoprene®	Polypropylene	3/32"	Multiport	PD05R-AAS-PAA-B	2CAP9	5XB23	5XB26
¾"	NPT	¼" FNPT	14	150°F	Hytrel	Hytrel	Polypropylene	3/32"	Single	PD07R-AAS-PCC	2UV61	6WU23	5XB26
	NPT	¼" FNPT	14	150°F	PTFE	PTFE	Polypropylene	3/32"	Single	PD07R-AAS-PTT	2UV62	5XB24	5XB26
1"	NPT	¼" FNPT	35	150°F	Nitrile	Acetal	Polypropylene	⅛"	Single	666100-362-C	2P598	4RM94	4RM92
	NPT	¼" FNPT	35	150°F	Santoprene®	Santoprene®	Polypropylene	⅛"	Single	666100-3EB-C	2CAV1	4RM95	4RM92
	NPT	¼" FNPT	35	200°F	PTFE	PTFE	Stainless Steel	⅛"	Single	666100-244-C	5U664	4RM93	4RM92
1½"	NPT	½" FNPT	90	150°F	Nitrile	Acetal	Polypropylene	¼"	Single	666150-362-C	2P599	4RM97	4RM92
	NPT	½" FNPT	90	150°F	Santoprene®	Santoprene®	Polypropylene	¼"	Single	666150-3EB-C	2CAV2	4RM98	4RM92
	NPT	½" FNPT	90	200°F	PTFE	PTFE	Stainless Steel	¼"	Single	666150-244-C	5U671	4RM96	4RM92
2"	NPT	¾" FNPT	172	180°F	Nitrile	Nitrile	Nitrile	¼"	Single	666250-G22-C	3FPR1	3FPP4	4CWJ3
	NPT	¾" FNPT	172	200°F	PTFE	PTFE	PVDF	¼"	Single	666250-444-C-G	3FPP9	3FPP5	4CWJ3
Aluminum Housing, Flap Valve													
2"	NPT	¾" FNPT	160	200°F	Santoprene®	Santoprene®	Stainless Steel	2"	Multiport	PF20A-AAS-SAA-B	4RN43	33RM99	4RN09
Aluminum Housing, Fuel Pumps													
½"	NPT	¼" FNPT	12	180°F	Viton®	Viton®	Aluminum	3/32"	Single	670042	2UV63	2TV40	—
1"	NPT	¼" FNPT	29	180°F	Viton®	Acetal	Kynar®	⅛"	Single	650717-C	3P785	—	4RM92
1½"	NPT	½" FNPT	75	180°F	Viton®	Acetal	Kynar®	¼"	Single	650718-C	2CAV3	—	4RM92
2"	NPT	½" FNPT	75	180°F	Viton®	Acetal	Kynar®	¼"	Single	650719-C	2CAV4	—	4RM92
Aluminum Housing, Split Manifold													
¾"	NPT	¼" FNPT	35	150°F	Nitrile	Acetal	Polypropylene	⅛"	Single	650715-C	5XA67	4RM94	4RM92
Cast Iron Housing													
1"	NPT	¼" FNPT	35	200°F	Santoprene®	Santoprene®	Stainless Steel	⅛"	Single	666102-2EB-C	4RN27	4RM95	4RM92
1½"	NPT	½" FNPT	90	200°F	Santoprene®	Santoprene®	Stainless Steel	¼"	Single	666152-2EB-C	4RN28	4RM98	4RM92
3"	NPT	¾" FNPT	237	200°F	Santoprene®	Santoprene®	Stainless Steel	⅜"	Single	66630C-8EB-C-G	3FPR7	3FPP8	4CWJ3
Stainless Steel Housing													
½"	NPT	¼" FNPT	12	200°F	PTFE	PTFE	Stainless Steel	3/32"	Multiport	PD05R-ASS-STT-B	5XA60	5XB24	5XB26
	NPT	¼" FNPT	12	200°F	Santoprene®	Santoprene®	Stainless Steel	3/32"	Multiport	PD05R-ASS-SAA-B	2CAP8	5XB23	5XB26
1"	NPT	¼" FNPT	35	200°F	PTFE	PTFE	Stainless Steel	⅛"	Single	666111-244-C	5U665	4RM93	4RM92
	NPT	¼" FNPT	35	200°F	Santoprene®	Santoprene®	Stainless Steel	⅛"	Single	666101-2EB-C	5U666	4RM95	4RM92
1½"	NPT	½" FNPT	90	200°F	PTFE	PTFE	Stainless Steel	¼"	Single	666161-244-C	5U672	4RM96	4RM92
	NPT	½" FNPT	90	200°F	Santoprene®	Santoprene®	Stainless Steel	¼"	Single	666151-24B-C	5U673	4RM98	4RM92
2"	NPT	¾" FNPT	172	200°F	PTFE	PTFE	PVDF	¼"	Single	66625B-444-C	3FPR5	3FPP5	4CWJ3
	NPT	¾" FNPT	172	200°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	666251-EEB-C	3FPR2	3FPP6	4CWJ3
3"	NPT	¾" FNPT	237	200°F	PTFE	PTFE	Stainless Steel	⅜"	Single	66630B-244-C	3FPR4	3FPP7	4CWJ3

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1.*



No. 2P598



No. 5XA60

For an explanation of diaphragm pump housing materials, see page 2663.

SANDPIPER
A WARREN RUPP PUMP BRAND

Sandpiper® Metallic Air-Operated Double Diaphragm Pumps

Pumps are designed for intermittent/on-demand and portable applications handling moderately abrasive fluids and suspended solids.



No. 12W423



No. 12W426



No. 15U527

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½"	NPT	¼" FNPT	15	180°F	Buna N	Buna	UHMW Polyethylene	⅛"	Multiport	S05B1ABWANS000.	**12W423**	**33TC13**	—
	NPT	¼" FNPT	15	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	⅛"	Multiport	S05B1A1WANS000.	**12W422**	—	—
	NPT	¼" FNPT	15	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	⅛"	Multiport	S05B1A2TANS000.	**12W424**	**33TC14**	—
1"	NPT	½" FNPT	45	180°F	Buna N	Buna	UHMW Polyethylene	¼"	Single	S1FB1ABWANS000.	**12W426**	—	—
	NPT	½" FNPT	45	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S1FB1A1WANS000.	**12W425**	**33TC15**	—
	NPT	½" FNPT	45	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	¼"	Single	S1FB1A2TANS000.	**12W427**	**33TC16**	—
1½"	NPT	¾" FNPT	106	180°F	Buna N	Buna	UHMW Polyethylene	¼"	Single	S15B1ABWANS000.	**15U521**	**39L610**	**39L613**
	NPT	¾" FNPT	106	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S15B1A1WANS000.	**15U522**	**39L611**	**39L613**
	NPT	¾" FNPT	106	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	¼"	Single	S15B1A2TANS000	**15U523**	**39L612**	**39L613**
2"	NPT	¾" FNPT	150	180°F	Buna N	Buna	Buna-N	¼"	Single	S20B1ABBANS000.	**15U526**	**39L614**	**39L613**
	NPT	¾" FNPT	150	220°F	Santoprene®	Santoprene®	EPDM	¼"	Single	S20B1A1EANS000.	**15U527**	**39L615**	**39L613**
	NPT	¾" FNPT	150	275°F	PTFE - Santoprene® Backup	PTFE	PTFE	¼"	Single	S20B1A2TANS000.	**15U528**	**39L616**	**39L613**
Cast-Iron Housing													
1"	NPT	½" FNPT	45	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S1FB1I1WANS000.	**29AU56**	**33TC15**	—
	NPT	1" FNPT	45	220°F	PTFE - Santoprene® Backup	PTFE	—	¼"	Single	S1FB1I2TANS000.	**29AU57**	**33TC16**	—
1½"	NPT	¾" FNPT	106	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S15B1I1WANS000.	**29AU58**	**39L611**	**39L613**
	NPT	¾" FNPT	106	220°F	PTFE - Santoprene® Backup	PTFE	—	¼"	Single	S15B1I2TANS000	**29AU59**	**39L612**	**39L613**
2"	NPT	¾" FNPT	150	220°F	PTFE - Santoprene® Backup	PTFE	—	¼"	Single	S20B1I2TANS000.	**29AU61**	**39L616**	**39L613**
	NPT	¾" FNPT	150	275°F	Santoprene®	Santoprene®	EPDM	¼"	Single	S20B1I1EANS000.	**29AU60**	**39L615**	**39L613**
Stainless Steel Housing													
½"	NPT	¼" FNPT	15	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	⅛"	Multiport	S05B1S2TANS000.	**12W430**	**33TC14**	—
	NPT	¼" FNPT	15	275°F	Santoprene®	Santoprene®	UHMW Polyethylene	⅛"	Multiport	S05B1S1WANS000.	**12W428**	—	—
1"	NPT	½" FNPT	45	180°F	Buna N	Buna	UHMW Polyethylene	¼"	Single	S1FB1SBWANS000.	**12W432**	—	—
	NPT	½" FNPT	45	180°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S1FB1S1WANS000.	**12W431**	**33TC15**	—
	NPT	½" FNPT	45	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	¼"	Single	S1FB1S2TANS000.	**12W433**	**33TC16**	—
1½"	NPT	¾" FNPT	106	220°F	PTFE - Santoprene® Backup	PTFE	PTFE	¼"	Single	S15B1S2TANS000.	**15U525**	**39L616**	**39L613**
	NPT	¾" FNPT	106	275°F	Santoprene®	Santoprene®	UHMW Polyethylene	¼"	Single	S15B1S1WANS000.	**15U524**	**39L615**	**39L613**
2"	Flange	¾" FNPT	150	220°F	PTFE - Santoprene® Backup	PTFE-Santoprene® Backup	PTFE	¼"	Single	S20B1S2TANS000.	**15U530**	**39L616**	**39L613**
	NPT	¾" FNPT	150	275°F	Santoprene®	Santoprene®	EPDM	¼"	Single	S20B1S1EANS000.	**15U529**	**39L615**	**39L613**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

SANDPIPER
A WARREN RUPP PUMP BRAND

Sandpiper® Heavy-Duty Air-Operated Double Diaphragm Pumps

Heavy-Duty Ball Valve—Have thick-walled construction that contains up to 30% more material than similar pumps. Ideal for highly viscous and small solids-laden fluids. Bottom discharge porting helps eliminate issues caused by settling solids. Freestanding base helps ease pump rebuild.

Heavy-Duty Flap Valve—Feature hinged-flap check valves to handle abrasive slurries, suspended and unsuspended solids, and line-size solids in horizontal and vertical manifold connections. Have bottom discharge ports. Dry prime up to 24 ft. of water.



No. 6WY85



No. 6WY75



No. 6WY80

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Heavy Duty Ball Valve													
Aluminum Housing													
1"	NPT	½" FNPT	42	220°F	PTFE - Neoprene Backup	PTFE	PTFE	¼"	Single	SB1,SGN5A.	**6WY83**	**6XA25**	**6XA16**
	NPT	½" FNPT	42	275°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	SB1,SS5A.	**6WY84**	**6XA26**	**6XA16**
1½"	NPT	¾" FNPT	105	220°F	PTFE - Neoprene Backup	PTFE	PTFE	¼"	Single	HDB1 ½,SGN8A.	**3CCW5**	**33TC19**	**6XA18**
	NPT	¾" FNPT	105	275°F	Santoprene®	Santoprene®	Santoprene®	¼"	Single	HDB1 ½,SS8A.	**3CCW4**	**6XA28**	**6XA18**
Cast-Iron Housing													
2"	NPT	¾" FNPT	135	220°F	PTFE - Neoprene Backup	PTFE	PTFE	⅜"	Single	HDB2,DGN4CI.	**6WY90**	**6XA29**	**6XA18**
	NPT	¾" FNPT	135	220°F	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	HDB2,DS4CI.	**6WY91**	**6XA30**	**6XA18**
Stainless Steel Housing													
1"	NPT	½" FNPT	42	220°F	PTFE - Neoprene Backup	PTFE	PTFE	¼"	Single	SB1,SGN5SS.	**6WY85**	**6XA25**	**6XA16**
1½"	NPT	¾" FNPT	105	220°F	PTFE - Neoprene Backup	PTFE	PTFE	¼"	Single	HDB1 ½,SGN8SS.	**3CCW6**	**33TC19**	**6XA18**
3"	Flange	¾" FNPT	260	220°F	PTFE - Neoprene Backup	PTFE	PTFE	⅞"	Single	HDB3,DGN4SS.	**6WY93**	**6XA31**	—
Heavy Duty Flap Valve													
Aluminum Housing													
1"	NPT	½" FNPT	70	190°F	Buna N	Buna	Buna-N	1"	Single	HDF1,DB2A.	**4YPL8**	**33TC23**	**6XA16**
2"	NPT	¾" FNPT	140	190°F	Buna N	Buna	Buna-N	2"	Single	HDF2,DB6A.	**6WY75**	**33TC20**	**6XA18**
	NPT	¾" FNPT	140	275°F	Santoprene®	Santoprene®	Santoprene®	2"	Single	HDF2,DP6A.	**6WY76**	—	**6XA18**
3"	Flange	¾" FNPT	260	190°F	Buna N	Buna	Buna-N	3"	Single	HDF3,DB7.	**6WY81**	**6XA22**	**6XA18**
	Flange	¾" FNPT	260	275°F	Santoprene®	Santoprene®	Santoprene®	3"	Single	HDF3,DS7.	**6WY80**	**6XA21**	**6XA18**
Cast-Iron Housing													
2"	NPT	¾" FNPT	140	190°F	Buna N	Buna	Buna-N	2"	Single	HDF2,DB6I.	**6WY77**	**33TC20**	**6XA18**
	NPT	¾" FNPT	140	275°F	Santoprene®	Santoprene®	Santoprene®	2"	Single	HDF2,DP6I.	**6WY78**	—	**6XA18**
3"	Flange	¾" FNPT	260	275°F	Santoprene®	Santoprene®	Santoprene®	3"	Single	HDF3M,DS2II.	**6WY82**	**6XA23**	—
Stainless Steel Housing													
2"	NPT	¾" FNPT	140	350°F	Viton®	Viton®	Viton®	2"	Single	HDF2,DV6S.	**6WY79**	**33TC22**	**6XA18**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

Find an explanation of diaphragm pump housing materials on page 2663.



No. 6CCK2



No. 6CCJ9



No. 6CCL6



No. 6CCL0



No. 4RN14

ARO®

ARO® Air-Operated Double Diaphragm Pumps—EXP Series

Provide stall-free, ice-free operation. Pumps feature Quick Dump™ exhaust valves that divert cold exhaust air from ice-prone components to help prevent freezing. Unbalanced air valve design helps avoid stalling issues associated with other pumps. Suitable for wastewater treatment, recirculating plating solutions, bulk transfer, and chemical formulation applications. Flanges are standard ANSI 150# flanges. 5-yr. manufacturer's warranty.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Temp	Max. Flow (gpm)*	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	H	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing														
1"	NPT	¼" FNPT	180°F	52	Nitrile	Nitrile	Nitrile	⅛"	Multiport	12 1/16"	PD10A-AAP-GGG	6CCK8	6DMC9	6DMA6
	NPT	¼" FNPT	200°F	52	PTFE	PTFE	Aluminum	⅛	Multiport	12 1/16"	PD10A-AAP-FTT	6CCK7	6DMD0	6DMA6
	NPT	¼" FNPT	200°F	52	Santoprene®	Santoprene®	Santoprene®	⅛"	Multiport	12 1/16"	PD10A-AAP-AAA	6CCK6	6DMC8	6DMA6
	NPT	½" FNPT	200°F	60	Viton®	Viton®	Aluminum	⅛"	Single	16 7/8"	PW10A-AAP-FVV	6CCK4	6DMD1	6DMA6
1 ¼"	NPT	½" FNPT	180°F	60	Nitrile	Nitrile	Nitrile	⅛"	Single	16 7/8"	PW10A-AAP-GGG	6CCK5	6DMC9	6DMA6
	NPT	½" FNPT	200°F	60	Santoprene®	Santoprene®	Santoprene®	⅛"	Single	16 7/8"	PW10A-AAP-AAA	6CCK2	6DMC8	6DMA6
1 ½"	NPT	½" FNPT	180°F	123	Nitrile	Nitrile	Nitrile	¼"	Multiport	19 3/8"	PD15A-AAP-GGG	6CCN5	6DMC2	6DMA5
	NPT	½" FNPT	200°F	60	PTFE	PTFE	Aluminum	⅛"	Single	16 7/8"	PW10A-AAP-FTT	6CCK3	6DMD0	—
	NPT	½" FNPT	200°F	123	PTFE	PTFE	Aluminum	¼"	Multiport	19 3/8"	PD15A-AAP-FTT	6CCN4	6DMC3	6DMA5
	NPT	½" FNPT	200°F	123	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	19 3/8"	PD15A-AAP-AAA	6CCN3	6DMC1	6DMA5
2"	NPT	¾" FNPT	180°F	172	Nitrile	Nitrile	Nitrile	¼"	Multiport	26 1/4"	PD20A-AAP-GGG-B	6CCP8	4RN13	6DMA7
	NPT	¾" FNPT	200°F	172	PTFE	PTFE	Stainless Steel	¼"	Multiport	26 1/4"	PD20A-AAP-STT-B	6CCN6	4RN14	6DMA7
	NPT	¾" FNPT	200°F	172	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	26 1/4"	PD20A-AAP-AAA-B	6CCP6	4RN12	6DMA7
3"	NPT	¾" FNPT	180°F	275	Nitrile	Nitrile	Nitrile	⅜"	Single	32"	PD30A-AAP-GGG-C	6CCR8	6DMA8	6DMA7
	NPT	¾" FNPT	200°F	275	PTFE	PTFE	Aluminum	⅜"	Multiport	32"	PD30A-AAP-FTT-C	6CCP4	33RN28	6DMA7
	NPT	¾" FNPT	200°F	275	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	32"	PD30A-AAP-AAA-C	6CCR7	4RN10	6DMA7
Cast-Iron Housing														
1"	NPT	¼" FNPT	200°F	52	Santoprene®	Santoprene®	Santoprene®	⅛"	Multiport	12 1/16"	PD10A-ACP-AAA	6CCL1	6DMC8	6DMA6
1 ½"	NPT	½" FNPT	200°F	123	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	19 3/8"	PD15A-ACP-AAA	6CCN8	6DMC1	6DMA5
2"	NPT	¾" FNPT	200°F	172	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	26 1/4"	PD20A-ACP-AAA-B	6CCR1	4RN12	6DMA7
3"	NPT	¾" FNPT	200°F	275	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	32"	PD30A-ACP-AAA-C	6CCT0	4RN10	6DMA7
Polypropylene Housing														
⅜"	NPT	¼" FNPT	150°F	8.7	Hytrel	Nitrile	Polypropylene	1/16"	Single	9 5/16"	PD03P-APS-0JC	6CCJ9	6DMD2	5XB26
	NPT	¼" FNPT	150°F	8.7	PTFE	Viton®	Polypropylene	1/16"	Single	9 5/16"	PD03P-APS-0LT	6CCK0	6DMD5	5XB26
	NPT	¼" FNPT	150°F	8.7	Santoprene®	Neoprene	Polypropylene	1/16"	Single	9 5/16"	PD03P-APS-0NA	6CCK1	6DMD3	5XB26
1"	Flange	¼" FNPT	150°F	53	PTFE	PTFE	Polypropylene	⅛"	Flanged	14 5/16"	PD10P-YPS-PTT	6CCN0	6DMC7	6DMA6
	Flange	¼" FNPT	150°F	53	PTFE	PTFE	Polypropylene	⅛"	Flanged	16"	PD10P-FPS-PTT	6CCL8	6DMC7	6DMA6
	Flange	¼" FNPT	150°F	53	Santoprene®	Santoprene®	Polypropylene	⅛"	Flanged	14 5/16"	PD10P-YPS-PAA	6CCL9	6DMC6	6DMA6
	Flange	¼" FNPT	150°F	53	Santoprene®	Santoprene®	Polypropylene	⅛"	Flanged	16"	PD10P-FPS-PAA	6CCL7	6DMC6	6DMA6
	NPT	¼" FNPT	150°F	53	PTFE	PTFE	Polypropylene	⅛	Single	14 13/16"	PD10P-APS-PTT	6CCL6	6DMC7	6DMA6
	NPT	¼" FNPT	150°F	53	Santoprene®	Santoprene®	Polypropylene	⅛	Single	14 13/16"	PD10P-APS-PAA	6CCL5	6DMC6	6DMA6
1 ½"	Flange	½" FNPT	150°F	123	PTFE	PTFE	Polypropylene	¼"	Flanged	24 7/16"	PD15P-FPS-PTT	6CCP1	6DMC5	6DMA5
	Flange	½" FNPT	150°F	123	PTFE	PTFE	Polypropylene	¼"	Flanged	24 9/16"	PD15P-YPS-PTT	6CCP3	6DMC5	6DMA5
	Flange	½" FNPT	150°F	123	Santoprene®	Santoprene®	Polypropylene	¼"	Flanged	24 7/16"	PD15P-FPS-PAA	6CCP0	6DMC4	6DMA5
	Flange	½" FNPT	150°F	123	Santoprene®	Santoprene®	Polypropylene	¼"	Flanged	24 9/16"	PD15P-YPS-PAA	6CCP2	6DMC4	6DMA5
2"	Flange	¾" FNPT	150°F	184	PTFE	PTFE	Polypropylene	¼"	Flanged	31 7/8"	PD20P-FPS-PTT	6CCR5	6DMC0	6DMA4
	Flange	¾" FNPT	150°F	184	Santoprene®	Santoprene®	Polypropylene	¼"	Flanged	31 7/8"	PD20P-FPS-PAA	6CCR4	6DMA9	6DMA4
Stainless Steel Housing														
1"	NPT	¼" FNPT	200°F	52	PTFE	PTFE	Stainless Steel	⅛	Multiport	12 1/16"	PD10A-ASS-STT	6CCL4 ‡	6DMD0	6DMA6
	NPT	¼" FNPT	200°F	52	PTFE	PTFE	Stainless Steel	⅛"	Multiport	12 1/16"	PD10R-ASS-STT	6CCN1 ‡	6DMD0	6DMA6
	NPT	¼" FNPT	200°F	52	Santoprene®	Santoprene®	Santoprene®	⅛"	Multiport	12 1/16"	PD10R-ASS-AAA	6CCL2 ‡	6DMC8	6DMA6
	NPT	¼" FNPT	200°F	52	Santoprene®	Santoprene®	Santoprene®	⅛"	Multiport	12 1/16"	PD10A-ASS-AAA	6CCL0 ‡	6DMC8	6DMA6
1 ½"	NPT	½" FNPT	200°F	123	PTFE	PTFE	Stainless Steel	¼"	Multiport	19 3/8"	PD15A-ASS-STT	6CCN9	6DMC3	6DMA5
	NPT	½" FNPT	200°F	123	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	19 3/8"	PD15A-ASS-AAA	6CCN2	6DMC1	6DMA5
2"	NPT	¾" FNPT	200°F	172	PTFE	PTFE	Stainless Steel	¼"	Multiport	26 1/4"	PD20A-ASS-STT-B	6CCR2	4RN14	6DMA7
	NPT	¾" FNPT	200°F	172	Santoprene®	Santoprene®	Santoprene®	¼"	Multiport	26 1/4"	PD20A-ASS-AAA-B	6CCN7	4RN12	6DMA7
3"	NPT	¾" FNPT	200°F	275	PTFE	PTFE	Stainless Steel	⅜"	Single	32"	PD30A-ASS-STT-C	6CCP7	33RN28	6DMA7
	NPT	¾" FNPT	200°F	275	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	32"	PD30A-ASS-AAA-C	6CCP5	4RN10	6DMA7

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1. ‡ Nos. 6CCL4 and 6CCL0 are 14"W. Nos. 6CCN1 and 6CCL2 are 8 5/16" W.*

Dayton® Food-Grade Air-Operated Double Diaphragm Pumps

Dayton®

Can handle a variety of fluids and are designed for food ingredients, cosmetic, and pharmaceutical processes where 3A Sanitary certification is not required. Feature 316 stainless steel construction with passivated satin finish, and have FDA-compliant elastomers with sanitary clamp fittings. Built for applications requiring FDA approval.

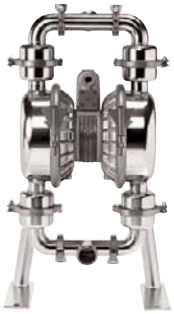
Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
316 Stainless Steel Housing													
1"	Tri-Clamp	¼" FNPT	14	212°F	Hytrel	PTFE	316 Stainless Steel	1/32"	Single	22A602	22A602	22A621	6PY78
	Tri-Clamp	¼" FNPT	14	212°F	PTFE	PTFE	316 Stainless Steel	1/32"	Single	22A603	22A603	6PY72	6PY78
	Tri-Clamp	¼" FNPT	32	212°F	Hytrel	PTFE	316 Stainless Steel	1/16"	Single	22A604	22A604	22A622	22A610
	Tri-Clamp	¼" FNPT	32	212°F	PTFE	PTFE	316 Stainless Steel	1/16"	Single	22A605	22A605	6PY73	22A610
1 ½"	Tri-Clamp	⅜" FNPT	46	212°F	Hytrel	PTFE	316 Stainless Steel	3/16"	Single	22A606	22A606	22A623	22A610
	Tri-Clamp	⅜" FNPT	46	212°F	PTFE	PTFE	316 Stainless Steel	3/16"	Single	22A607	22A607	6PY74	22A610

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*



No. 22A603

Find an explanation of diaphragm pump housing materials on page 2663.


No. 39N546


No. 454U34


No. 39N544

STANDARD Pump

Standard Pump® Food-Grade Air-Operated Double-Diaphragm Pumps

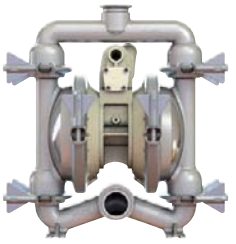
- Sanitary and FDA Compliant pumps are for food processing and pharmaceutical applications, and can be quickly disassembled for cleaning (COP)

Inlet/Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.
316 Stainless Steel Housing											
1½"	Tri-Clamp	½" NPT	41	180°F	Santoprene®	Santoprene®	316 S.S.	⅛"	Single	SPFG10SSS	**454U32**
	Tri-Clamp	½" FNPT	51	220°F	PTFE	PTFE	316 S.S.	⅜"	Single	SPSN15NPT	**39N546**
	Tri-Clamp	½" FNPT	86	275°F	Santoprene®	Santoprene®	316 S.S.	⅜"	Single	SPSN15NPS	**39N547**
2"	Tri-Clamp	½" NPT	120	180°F	Santoprene®	Santoprene®	316 S.S.	3⁄16"	Single	SPFG15SSS	**454U34**
	Tri-Clamp	½" NPT	120	180°F	PTFE	PTFE	316 S.S.	3⁄16"	Single	SPFG15SST	**454U35**
	Tri-Clamp	½" FNPT	147	220°F	PTFE	PTFE	316 S.S.	5⁄16"	Single	SPSN20NPT	**39N548**
3"	Tri-Clamp	½" FNPT	150	275°F	EPDM	—	316 S.S.	2½"	Multiport	SPPP30SSE	**53WA92**
	Tri-Clamp	½" FNPT	180	220°F	PTFE	PTFE	316 S.S.	⅜"	Single	SPFP30NPT	**39N544**
	Tri-Clamp	½" FNPT	234	275°F	Santoprene®	Santoprene®	Santoprene®	⅜"	Single	SPFP30NPS	**39N545**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*


No. 22A406


No. 22A399


No. 22A401

VERSA-MATIC®

Versa-Matic® Food-Grade Air-Operated Double-Diaphragm Pumps

3A Sanitary—Feature a leak detection system, clean-in-place (CIP) design, and removable ball cages to ease cleaning. 32 ra surface finish. Models include a rotating pump stand for drainage.

FDA—Constructed of FDA-compliant materials and feature the innovative Elima-Matic® air valve system that virtually eliminates stalling, icing, and the need for lubrication. Pumps have an internal and external electro-polished finish, tri-clamp connections to ease disassembly, and nickel-plated or non-metallic chemical-resistant air sections for washdown.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
3A Sanitary, Stainless Steel Housing													
1½"	Tri-Clamp	½" FNPT	86	220°F	PTFE	PTFE	Stainless Steel	⅜"	Single	E4SJ5F5S0-3A	**22A406**	—	**22A483**
2"	Tri-Clamp	½" FNPT	147	220°F	PTFE	PTFE	Stainless Steel	⅝"	Single	E2SJ5F5S0C-3A	**22A407**	—	**22A484**
FDA, Stainless Steel Housing													
½"	Tri-Clamp	⅜" FNPT	12	220°F	PTFE	PTFE	Stainless Steel	1⁄16"	Single	E5SP5F559C-FP	**22A398**	**22A475**	**22A481**
1"	Tri-Clamp	⅜" FNPT	46	220°F	PTFE	PTFE	Stainless Steel	⅛"	Single	E1SP5F559C-FP	**22A399**	**22A476**	**22A482**
1½"	Tri-Clamp	½" FNPT	71	220°F	PTFE	PTFE	Stainless Steel	3⁄16"	Single	E4SJ5F5S0-FP	**22A401**	**22A477**	**22A483**
2"	Tri-Clamp	½" FNPT	185	220°F	PTFE	PTFE	Stainless Steel	¼"	Single	E2SJ5F5S0C-FP-ATEX	**22A402**	**33TC18**	**22A484**
3"	Tri-Clamp	½" FNPT	234	220°F	PTFE	PTFE	Stainless Steel	⅜"	Single	E3SJ5T5S0C-FP-ATEX	**22A403**	**22A479**	**22A485**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*


No. 4YD53


No. 2ERY7

FLOJET WARREN RUPP® IDEX CORPORATION

Air-Operated Double-Diaphragm Pumps

Single Manifold—Feature a stallproof shuttle valve design and plug-in port fittings for easy installation.

Multiport Manifold—Can be run dry without damage. Capable of dead-heading against a closed discharge.

Inlet/ Outlet Size	Connec. Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connec.	Self-Priming Dry	Self-Priming Wet	Brand	Mfr. Model	Item No.
Acetal Housing														
⅜"	Hose Barb	¼" Barb	2.5	120°F	Viton®	Polypropolyne	Viton®	⅛"	Single	28 ft.	32 ft	Flojet	N5100020G	**12W294**
Kynar® Housing														
⅜"	NPT	¼" FNPT	6.8	220°F	PTFE	PTFE	PTFE	0.1"	Multiport	8 ft.	10 ft.	Warren-Rupp	WR10KP5BKK9.	**2ERY9**
Polypropylene Housing														
½"	Hose Barb	¼" Barb	5	120°F	Santoprene®	—	Santoprene®	⅛"	Single	15 ft.	20 ft.	Flojet	G575215Z	**4YD53**
½"	Hose Barb	¼" Barb	5	120°F	Viton®	Viton®	Viton®	⅛"	Single	15 ft.	20 ft.	Flojet	G573215Z	**2XE84**
⅜"	NPT	¼" FNPT	5	275°F	Santoprene®	Santoprene®	Santoprene®	0.1"	Multiport	8 ft.	10 ft.	Warren-Rupp	WR10PP6XPP9	**2ERY7**
⅜"	NPT	¼" FNPT	6.8	220°F	PTFE	PTFE	PTFE	0.1"	Multiport	8 ft.	10 ft.	Warren-Rupp	WR10PP5BPP9.	**2ERY8**

** Flow rate depends on air pressure and fluid viscosity.*

PENTAIR
SHURFLO®
LittleGIANT FLOJET

Sprayer Pumps

- Thermally protected motors (except No. 4UN19)
- Sealless design

Pumps can run dry without damage (except No. 11W067). Pressure demand switches automatically turn pumps off when the outlet is closed. Sealless design eliminates troublesome shaft seals and potential leakage into the motor.

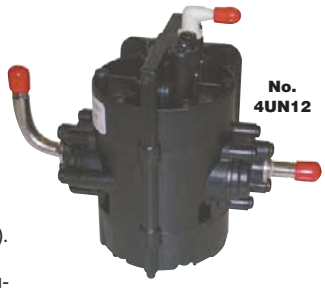
Note: Not for use in potable water systems. Not for use with gasoline.

AIR-DRIVEN INJECTION

- Max. air inlet pressure: 60 psi
- Suction lift (wet): 25" Hg

2-chamber double-diaphragm pumps can be used for chemical transfer, soap dispensing, or to inject liquid fertilizer. Pumps operate with CO_2, nitrogen, or clean, filtered, compressed air. Performance varies with liquid viscosity.

Note: Always check for chemical compatibility of elastomers prior to installation.


No. 4UN12

NOS. 4UN55 AND 4UN56

Built-in outlet check valve prevents supply tank from draining through pump when pump is mounted up to 4 ft. below tank liquid level. UL Listed and CSA Certified.

NOS. 4UN18 TO 4UN20

Pumps come with 1 straight barb swivel fitting and one 90° elbow barb swivel fitting. Use with SHURflo® brand fittings only. UL Listed and CSA Certified.


No. 11W067


No. 4UN20


No. 2P795

NO. 2P796

Housing features port locations that can be rotated in 90° increments to simplify installation.

Inlet/ Outlet (in.)	Voltage	Max. Flow	Pressure On	Pressure Off	Max. Temp	Housing Material	Diaphragm Material	Check Valve	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.	
Air-Driven Injection															
3/8" HB	—	0.6 gpm	—	—	130°F	Polypropylene	Buna	Buna	5.80	3.80	6.75	Shurflo	166-200-46	**4UN13**	
	—	0.6 gpm	—	—	130°F	Polypropylene	EPDM	EPDM	5.80	3.80	6.75	Shurflo	166-200-56	**4UN14**	
	—	0.6 gpm	—	—	130°F	Polypropylene	Santoprene®	Santoprene®	5.80	3.80	6.75	Shurflo	166-200-57	**4UN15**	
	—	0.6 gpm	—	—	130°F	Polypropylene	Viton®	Viton®	5.80	3.80	6.75	Shurflo	166-200-36	**4UN12**	
Centrifugal Carpet Cleaner Pump															
3/8" HB	120VAC	2.8 gpm	—	—	120°F	Nylon	—	No	6.9	4	2.9	Little Giant	35-OM	**11W067**	
Diaphragm Pump															
3/8" FNPT	24VDC	1.6 gpm	40	60	140°F	Polypropylene	Buna	Buna	7 15/16	4	3 3/8	Flojet	D3231B5011A	**10H913**	
	120VAC	1.1 gpm	85	100	130°F	Nylon	Santoprene®	Viton®	8.40	4.00	4.30	Shurflo	8000-811-288	**4UN56**	
	120VAC	1.6 gpm	85	100	130°F	Nylon	Santoprene®	Viton®	8.40	4.00	4.10	Shurflo	8000-813-238	**4UN55**	
1/2"-14 MSPT	12VDC	3.0 gpm	25	45	130°F	Polypropylene	Santoprene®	Viton®	8.60	5.00	4.40	Shurflo	2088-343-135	**4UN19**	
	12VDC	3.6 gpm	25	45	130°F	Polypropylene	Santoprene®	Viton®	9.80	5.00	4.40	Shurflo	2088-313-145	**4UN18**	*
	120VAC	3.2 gpm	25	45	130°F	Polypropylene	Santoprene	Viton	8.60	5.00	4.40	Shurflo	2088-394-154	**4UN20**	
Electric Sprayer Pump															
1/4" FNPT	120VAC	1.6 gpm	80	100	160°F	Nylon	EPDM	Viton®	7.65	3.24	3.63	Flojet	02130571G	**2P796**	
3/8" HB	12VDC	1.0 gpm	20	35	110°F	Polypropylene	Santoprene®	Viton®	6.37	3.94	2.38	Flojet	LF182201D	**2XE85**	
	12VDC	1.0 gpm	20	35	110°F	Polypropylene	Santoprene®	Viton®	6.37	3.94	2.38	Flojet	LF112301G	**2XE86**	*
3/8" FNPT	12VDC	2.0 gpm	40	60	140°F	Polypropylene	Santoprene®	Viton®	8.92	3.96	3.66	Flojet	03501-503A	**2XE88**	
	12VDC	2.1 gpm	40	60	140°F	Polypropylene	Santoprene®	Viton®	7.65	3.24	3.63	Flojet	D21X005A	**2XE87**	
	120VAC	1.6 gpm	40	60	140°F	Polypropylene	Santoprene	Viton®	7.65	3.24	3.63	Flojet	02100953G	**2P795**	
1/2" HB	12VDC	5.0 gpm	25	40	140°F	Polypropylene	Santoprene®	Viton®	9.24	3.19	3.75	Flojet	04300-528A	**2XE89**	

**** Motor has a heavy-duty heat sink to help keep it cool.***

Dayton

AC Fuel Transfer Pumps


No. 53KH36

- 115VAC
- Self-priming

Ideal for use with gasoline, gasohol (up to E15), diesel fuel, biodiesel (up to B20), and kerosene.

HP	GPM	Inlet Size	Outlet Size	Metered	Hose Length	Housing Material	Nozzle Type	Item No.
Gear								
1/8	12	1"	3/4"	No	—	Aluminum	—	**53KH36**
		1"	3/4"	No	12 ft.	Aluminum	Automatic	**53KH37**
		1"	3/4"	No	12 ft.	Aluminum	Manual	**53KH38**
	13	1"	3/4"	No	12 ft.	Aluminum	Manual	**12F726**
Rotary Vane								
1/3	20	1"	3/4"	No	12 ft.	Cast Iron	Automatic	**53KH55**
		1"	1"	No	—	Cast Iron	—	**53KH56**
		1"	1"	Yes	18 ft.	Cast Iron	Automatic	**53KH57**
		1"	3/4"	No	12 ft.	Cast Iron	Manual	**53KH58**
		1"	3/4"	Yes	12 ft.	Cast Iron	Manual	**53KH59**
3/4	30	1 1/4"	1"	No	12 ft.	Cast Iron	Manual	**53KH60**
		1 1/4"	1"	No	12 ft.	Cast Iron	Automatic	**53KH61**
		1 1/4"	1"	Yes	12 ft.	Cast Iron	Automatic	**53KH62**
		1 1/4"	1"	No	—	Cast Iron	—	**53KH63**
		1 1/4"	1"	Yes	—	Cast Iron	—	**53KH64**

Dayton

DC Fuel Transfer Pumps


No. 53KH35

- Self-priming

For use with gasoline, gasohol (up to E15), diesel fuel, biodiesel (up to B20), and kerosene.

Voltage	HP	GPM	Inlet Size	Outlet Size	Metered	Hose Length	Housing Material	Nozzle Type	Item No.
Gear									
12VDC	1/10	8	1"	3/4"	No	10 ft.	Aluminum	Manual	**53KH35**
	1/7	15	1"	3/4"	No	12 ft.	Aluminum	Manual	**12F724**
		20	1"	1"	No	12 ft.	Aluminum	Manual	**12F725**
	1/5	15	1"	3/4"	No	10 ft.	Aluminum	Manual	**53KH40**
			1"	3/4"	No	12 ft.	Aluminum	Automatic	**53KH39**
			1"	3/4"	No	12 ft.	Aluminum	Manual	**53KH41**
			1"	3/4"	No	—	Aluminum	—	**53KH43**
			1" FNPT	3/4" FNPT	No	—	Aluminum	—	**54TY41**
	1/4	18	1"	3/4"	Yes	12 ft.	Aluminum	Manual	**53KH42**
			1"	1"	No	12 ft.	Aluminum	Automatic	**53KH46**
			1"	1"	No	12 ft.	Aluminum	Manual	**53KH45**
			1"	1"	No	—	Aluminum	—	**53KH44**
24VDC	1/7	15	1"	3/4"	No	12 ft.	Aluminum	Manual	**12F733**
	1/5		1"	3/4"	No	12 ft.	Aluminum	Manual	**53KH47**
			1"	3/4"	No	—	Aluminum	—	**53KH48**
Rotary Vane									
12VDC	1/4	12	3/4"	3/4"	No	13 ft.	Aluminum	Manual	**40M293**
	3/10	20	1"	1"	No	12 ft.	Cast Iron	Automatic	**53KH49**
			1"	1"	No	12 ft.	Cast Iron	Manual	**53KH50**
			1"	1"	No	—	Cast Iron	—	**53KH51**
	2/5	25	1"	1"	No	18 ft.	Cast Iron	Automatic	**53KH53**
			1"	1"	No	18 ft.	Cast Iron	Manual	**53KH52**
			1"	1"	No	—	Cast Iron	—	**53KH54**



No. 30J092

FILL-RITE

AC Fuel Transfer Pumps

These rotary vane, self-priming pumps let you dispense B20, diesel, E15, gasoline, and kerosene, except Nos. 32GG92, 32GG94, 32GG95, and 32GG93 are not compatible with gasoline. For use on construction sites and farms. With internal bypass valves, Viton® O-rings, heavy-duty switch, and permanently lubricated ball bearings. The permanent magnet motors can operate continuously for up to 30 min., are ntrinsically-safe, and have thermal overload protection. Models with nozzle are lockable. Pumps can be mounted to a standard 2" NPT opening with included bung adapter.

Note: Find Fill-Rite Pump Repair Kits at Grainger.com®.

HP	GPM	Inlet Size	Outlet Size	Hose Length	Housing Material	Seal Material*	Nozzle Type	Metered	Mfr. Model	Item No.
115VAC										
	17	1¼" MNPT	1" FNPT	12 ft.	Cast Iron	Carbon	Manual	Yes	FR702VR	**2GMP8**
		1¼" MNPT	¾" FNPT	12 ft.	Cast Iron	Carbon	Manual	Yes	FR701V	**5TXG6**
⅓	20	1¼" MNPT	¾" FNPT	12 ft.	Cast Iron	Carbon	Manual	No	FR700V	**2GMP5**
		1¼" MNPT	1" FNPT	18 ft.	Cast Iron	Carbon	Ultra High Flow Automatic	Yes	FR711VA	**30J091**
	13	1" MNPT	¾" FNPT	10 ft.	Cast Iron	C/C	Manual	No	SD602H	**3KZD9**
⅙	15	1" MNPT	¾" FNPT	12 ft.	Cast Iron	C/C	Manual	No	FR610H	**4RP94**
		1" MNPT	¾" FNPT	12 ft.	Cast Iron	C/C	Automatic	No	FR610HA	**30J093**
115/230VAC										
		1¼" MNPT	1"	—	Cast Iron	Carbon	—	No	FR310VN	**32GG92**
	30	1¼" MNPT	1"	18 ft.	Cast Iron	Carbon	Automatic	Yes	FR311VB	**32GG94**
		1¼" MNPT	1"	18 ft.	Cast Iron	Carbon	Automatic	No	FR310VB	**32GG95**
¾		1¼" MNPT	1"	—	Cast Iron	Carbon	—	Yes	FR311VN	**32GG93**
	35	1¼" MNPT	1" FNPT	18 ft.	Cast Iron	C/C	Ultra High Flow Automatic	Yes	FR319VB	**30J092**

** C/C = ceramic/carbon.*

DC Fuel Transfer Pumps

FILL-RITE

Self-priming, rotary vane, and allow you to dispense B20, diesel, E15, gasoline, and kerosene, except Nos. 38NH81 and 38NH82 are for biodiesel, diesel, and gasoline; No. 38NH83 is not compatible with gasoline. For use on construction sites and farms. With internal bypass valves and heavy-duty switch. Motors can operate continuously for up to 30 min., are intrinsically-safe, and thermal overload protected; except Nos. 38NH82, 38NH83, 38NH87, and 429J10 are not intrinsically-safe and have no thermal overload protection; No. 48YA42 is not thermal overload protected; Nos. 416K59 and 416K60 are not intrinsically-safe. Nos. 45KM61 to 45KM63 have reconfigureable flanges.



No. 1P894

Note: Find Fill-Rite Pump Repair Kits at Grainger.com®.

HP	GPM	Inlet Size	Outlet Size	Hose Length	Housing Material*	Seal Material†	Nozzle Type	Metered	Mfr. Model	Item No.
12 to 24VDC										
⅓	25	1¼" FNPT	1" FNPT	—	CI	Buna-N	—	No	NX25-DDCNB-PX	**429J10**
		1¼" FNPT	1" FNPT	18 ft.	CI	Buna-N	Automatic	No	NX25-DDCNF-AA	**429J12**
12VDC										
	13	1" MNPT	¾" FNPT	10 ft.	CI	C/C	Manual	No	SD1202H	**3KZH7**
		1" MNPT	¾" FNPT	12 ft.	CI	C/C	Manual	No	FR1210H	**1P894**
		1" MNPT	1" FNPT	12 ft.	CI	C/C	Manual	Yes	FR1211H	**30J088**
	15	1"	¾"	—	CI	Buna-N	—	No	FR1204H	**38NH81**
		1"	¾"	12 ft.	CI	Buna-N	Automatic	No	FR1210HA	**38NH82**
		1" FNPT	¾" FNPT	12 ft.	CI	C/C	Manual	Yes	FR1219H	**416K59**
¼		1" NPT	¾" NPT	12 ft.	CI	Carbon	Automatic	No	FR1210HA1	**48YA42**
		1" MNPT	¾" FNPT	18 ft.	CI	C/C	Ultra High Flow Automatic	No	FR4210HBFQ	**4FY15**
	20	1" MNPT	1" FNPT	12 ft.	CI	C/C	Manual	No	FR420H	**4RP93**
		1" MNPT	1" FNPT	12 ft.	CI	C/C	Manual	Yes	FR4211H	**30J090**
		1"	1"	—	CI	Buna-N	—	No	FR4204H	**38NH87**
		1" FNPT	¾" FNPT	12 ft.	CI	C/C	Manual	Yes	FR4219H	**416K60**
	10	¾"	¾"	—	CI	HNBR	—	No	FR1612	**38NH83**
⅕	12	¾" NPT	¾" NPT	—	AL	Buna-N	—	No	RD1212NN	**45KM61**
		¾" NPT	¾" NPT	8 ft.	AL	Buna-N	Manual	No	RD1212NH	**45KM62**
		¾" NPT	¾" NPT	8 ft.	AL	Buna-N	Manual	No	RD1212NP	**45KM63**
24VDC										
¼	15	1" MNPT	1" FNPT	12 ft.	CI	C/C	Manual	Yes	FR2411H	**30J089**

** CI = cast iron, AL = aluminum. † C/C = ceramic/carbon.*



No. 36NL24

FILL-RITE

Portable DC Fuel Transfer Pumps

Low-profile and self-priming with configurable flanges that allow you to position the inlet and outlet to fit your needs. Intrinsically-safe motor with thermal overload protection, cast-iron housing, and Buna-N seal. No. 36NL24 comes with a suction hose, discharge hose, and nozzle. No. 36NL26 comes with hose, nozzle, and bung adapter. All models include a quick connect battery cable.

Compatible Fluids	Voltage	HP	GPM	Inlet Size	Outlet Size	Hose Length	Nozzle Type	Metered	Mfr. Model	Item No.
Diesel, Gasoline, Kerosene, E15, Biodiesel up to B20	12VDC	⅛ hp	8	¾" MNPT	¾"	—	Manual	No	RD812NN	**36NL25**
			8	¾" MNPT	¾"	8 ft.	Manual	No	RD812NH	**36NL24**
			8	¾" MNPT	¾"	8 ft.	Manual	No	RD812NP	**36NL26**



No. 4RP95

FILL-RITE

Fuel Flowmeters

Inlet and outlet ports can be rotated in 90° increments to ease installation. All models are UL and C-UL Listed, except Nos. 24KJ09 and 3XNL1. Nos. 1P951 and 5P232 have nickel-plated aluminum housing and Type 303 stainless steel shaft. Nos. 3XNL1, 24KJ09, 3MMP5, 3KMR1, 4RP91, and 4RP92 have corrosion-resistant aluminum housings. All models are not for resale measuring use.

2 TO 20 GPM

Can be calibrated without dispensing fluids to measure ounces, pints, quarts, liters, or gallons to ±0.5% accuracy. Resettable totalizer counts to 1000 gal. Weatherproof.

Note: Not for use with gasoline or fluids with a flash point of 100°F or less.

5 TO 20 GPM

Resettable flowmeters with nonresettable 100,000-gal. totalizer. ±1% accuracy. Nos. 24KJ09 and 3KMR1 can be field calibrated.

Note: Do not use for liquids thicker than diesel fuel.

6 TO 40 GPM

Nos. 3XNL1, 3MMP5, 4RP92, and 5P232 measure flow to 1000 gal. ±2% accuracy. Nonresettable master totalizer: Nos. 3XNL1, 3MMP5, and 4RP92 count to 1,000,000 gal., No. 5P232 counts to 100,000 gal.

Note: Do not use for liquids thicker than diesel fuel.

Flow Material	Display	Seal Material	Flow Range	Connec. Size	Resettable Cumulative Totalizer	Max. Pressure	L	W	H	Mfr. Model	Item No.
Diesel, Water, Kerosene	Digital, LCD	Viton® and Buna	2 to 20 gpm	1"	9999 gal.	100 psi	5½	5¼	5	820	**4RP95**
Gasoline, Diesel, B20, E15, Kerosene	Mechanical	—	5 to 20 gpm	¾"	1000 gal.	50 psi	8"	6"	6"	807CMK	**3KMR1**
	Mechanical	—	6 to 40 gpm	1"	1000 gal.	50 psi	9¼"	6¼"	5½"	901CMK4200	**3MMP5**
	Mechanical	Viton®	5 to 20 gpm	1"	100 gal.	50 psi	8"	6"	6"	807CN1	**1P951**
	Mechanical	Viton® and Buna	5 to 20 gpm	1"	100 gal.	50 psi	8"	6"	6"	807C1	**4RP91**
	Mechanical	Viton® and Buna	6 to 40 gpm	1½"	1000 gal.	50 psi	9¼"	6¼"	5½"	901C1.5	**4RP92**
Gasoline, Diesel, B20, E15, Kerosene	Mechanical	—	5 to 20 gpm	¾"	100 gals.	50 psi	8"	6"	6"	807C	**24KJ09**
	Mechanical	—	6 to 40 gpm	1"	1000 gal.	50 psi	9¼"	6¼"	5½"	901C	**3XNL1**
Non-Potable Water, Gasoline, Diesel, B20, E15, Kerosene	Mechanical	Viton®	6 to 40 gpm	1½"	1000 gal.	50 psi	9¼"	6¼"	5½"	901CN1.5	**5P232**

Fuel Filters

Dayton® FILL-RITE

Can be used with gasoline, diesel fuel, ethanol blended gasoline (E1 to E85), and biodiesel (up to B20), except Filter Elements Nos. 40M298, 40M299, 12F729, and 12F734 are only for use with gasoline and diesel fuel, and Fill-Rite models are not for use with aviation fuel.

WARNING: Use only with liquids compatible with pump component materials.

Dayton®—Use with Fuel Transfer Pumps Nos. 4RP93 and 4FY15 on page 2670.

Fill-Rite®—Aluminum-Head Filter No. 4FY23 is for use with Transfer Pump No. 4RP93 on page 2670.

Replacement Fuel Filter Canisters and Elements—Screw onto existing filter housings. Buna N gasket.

- Filter down to 10 microns, except No. 4FY24 is 30 microns

Size	Flow Rate (gpm)	Head Material	Includes	H (in.)	Brand	Mfr. Model	Item No.
Fuel Filter Housings							
¾" NPT	20	Aluminum	10 Micron Contaminant Filter	10¼	Dayton	12F727	**12F727**
1" NPT	40	Aluminum	Carbon Steel Screw On 30 Micron Filter Canister, 1" Street Elbow, 1"x7" Pipe Nipple	12¾	Fill-Rite	311KTF7029GR	**4FY23**
1" NPT	20	Aluminum	10 Micron Contaminant Filter	10¼	Dayton	12F728	**12F728**
	20	Aluminum	10 Micron Filter	7 1/16	Dayton	40M298	**40M298**
	20	Aluminum	10 Micron Water Block Filter	7 1/16	Dayton	40M299	**40M299**

Description	For Use With	Brand	Mfr. Model	Item No.
Replacement Fuel Filter Canisters and Elements				
Filter	—	Dayton	12F729	**12F729**
Filter Kit	—	Dayton	40M302	**40M302**
Filter Wrench	Fuel Filter	Dayton	40M291	**40M291**
Fuel Filter	Mfr. No. 311KTF7029, 4FY23 Fuel Filter Housing	Fill-Rite	F4030PM0	**4FY24**
Fuel Filter Element	40M298 Fuel Filter	Dayton	40M301	**40M301**
Fuel Filter Element	12F727 and 12F728 Fuel Filters	Dayton	12F734	**12F734**



No. 4FY23

Fuel Nozzles and Hoses

FILL-RITE LIQUIDYNAMICS Dayton®

Drum Pump Nozzles—Nos. 45NC01 to 45NC03 and 45NA99 are suitable for use in dispensing diesel exhaust fluid (DEF). All nozzles have a hang-up hook, except for Nos. 45NC01 to 45NC03, 1DLU2, and 1DLU4.

Fuel Nozzles—For use with electric fuel pumps and feature a heavy-duty, die-cast aluminum body.

Auto models have a thermoplastic and protective vinyl grip guard.

Manual Nos. 5URH3, 5URH4, and 5URH6 have a hose swivel at the inlet for greater maneuverability and ease of use. Nos. 40M288 and 40M289 have a digital meter which can measure fuel in gallons, liters, pints, and quarts.

- Include hang-up hook, except Nos. 45NC01 to 45NC03, 1DLU2, and 1DLU4.

Fuel Hose—Antistatic and can be used with gravity feed, electric- or hand-operated pumps to safely transfer flammable media.

- Max. pressure: 50 psi
- Temp. range: -22° to 130°F

Multi-Plane Hose Swivels—Permit the best flow rates and prevent fuel transfer hose from binding, twisting, and kinking during fueling.



No. 10J823



No. 22W965



No. 2RB96



No. 24UY36

Metered	Spout Connection Type	Inlet Size	Inlet Type	Wetted Materials	Max. Operating Pressure	Brand	Mfr. Model	Item No.
Drum Pump Nozzles								
Automatic Shut-Off								
No	Hose Barb	¾"	BSP	Stainless Steel	50 psi	Fill-Rite	FRNS075A	**6XGW7**
No	Integral to Nozzle	¾"	FNPT	Stainless Steel,Viton	120 psi	Liquidynamics Inc.	100389AG	**45NC01**
No	Integral to Nozzle	¾"	Hose Barb	Polypropylene, EPDM, Stainless Steel	120 psi	Liquidynamics Inc.	100389PA	**45NC02**
Yes	Integral to Nozzle	¾"	Hose Barb	Polypropylene, EPDM, Stainless Steel	120 psi	Liquidynamics Inc.	100398	**45NC03**
Manual Shut-Off								
No	Hose Barb	¾"	Hose Barb	Polypropyene, Stainless Steel	50 psi	Fill-Rite	KITHA32VMN	**6XGV5**
No	Integral to Nozzle	¾"	Hose Barb	Polypropylene, EPDM, Stainless Steel	120 psi	Liquidynamics Inc.	100389M	**45NA99**
No	Integral to Nozzle	1"	Hose Barb	Aluminum, Nitrile Rubber	32 psi	Dayton	1DLU5	**1DLU5**
No	Integral to Nozzle	1"	Hose Barb	Polypropylene, Viton	32 psi	Dayton	1DLU2	**1DLU2**
No	Integral to Nozzle	1"	Hose Barb	PVDF, Viton	32 psi	Dayton	1DLU4	**1DLU4**

Application	Inlet	Outlet	L	Brand	Mfr. Model	Item No.
Fuel Nozzles						
Automatic Shut-Off						
Diesel	1" FNPT	Steel	6"	Dayton	10J823	**10J823**
Diesel and Gasoline	¾" FNPT	Steel	7"	Dayton	10J822	**10J822**
For Refined Petroleum Liquids	¾" FNPT	Unleaded Spout	14'	Fill-Rite	N075UAU10	**4FY19**
For Refined Petroleum Liquids	1" FNPT	—	14'	Fill-Rite	N100DAU13	**22W965**
For Transfer of Gasoline, Diesel, or Kerosene to Large Fuel Capacity Farm, Fleet, or Construction Equipment	1" NPT	1"	16"	Fill-Rite	N100DAU12G	**45DV39**
Manual Shut-Off						
Diesel	1" FNPT	Spout Length 6 5/16"	14'	Dayton	5URH6	**5URH6**
Diesel	1" FNPT	Aluminum	16- 5/16"	Dayton	40M289	**40M289**
Diesel and Gasoline	¾" FNPT	Aluminum	16- 5/16"	Dayton	40M288	**40M288**
Diesel and Gasoline	¾" FNPT	Spout Length 6 5/16"	14'	Dayton	5URH4	**5URH4**
Diesel and Gasoline	¾" FNPT	Spout Length 6 5/16"	14'	Dayton	5URH3	**5URH3**
For Refined Petroleum Liquids	1" FNPT	Diesel/Leaded Spout	14'	Fill-Rite	FRHMN100S	**3MMG9**
Refined Petroleum Liquids	¾" FNPT	Unleaded Spout	14'	Fill-Rite	FRHMN075S	**3MMC7**
Diesel Nozzles						
Automatic Shut-Off						
For most Agriculture, Construction, and Industry Fleet	¾" NPT	—	14'	Fill-Rite	N075DAU10	**8YJL1**

Dia.	L	Brand	Mfr. Model	Item No.
Hose with Static Wire				
¾"	20'	Fill-Rite	FRH07520	**3MMN2**
1"	20'	Fill-Rite	FRH10020	**3MMN4**
Fuel Hose				
¾"	12'	Fill-Rite	700F3135	**2RB96**
¾"	12'	Dayton	12F731	**12F731**
1"	12'	Dayton	12F732	**12F732**
1"	14'	Fill-Rite	FRH10014	**2RB98**
—	12'	Fill-Rite	300F7773	**24KJ12**
¾"	12'	Fill-Rite	FRH07512GR	**2RB97**
Discharge Hose				
¾"	96"	Fill-Rite	KITHA32V	**6XGV3**

Description	Mfr. Model	Brand	Item No.
Breakaway Fittings & Hose Swivels			
Breakaway Fitting, 1¼", 1¼" Dia.	B100F475	Fill-Rite	**48YA74**
Breakaway Fitting, ¾", ¾" Dia.	B075F350	Fill-Rite	**48YA79**
Multi-Plane Hose Swivel, ¾" NPT, 4½" L	S075H1314	Fill-Rite	**24UY36**
Multi-Plane Hose Swivel, 1" NPT, 5" L	S100H1315	Fill-Rite	**24UY37**
Miscellaneous Accessories			
18 gpm Particulate Spin On Filter	F1810PM0	Fill-Rite	**4FY22**
18 gpm Hydrosorb Filter w/Head Kit	1210KTF7019	Fill-Rite	**3MMN6**
18 gpm Particulate Filter w/Head Kit	1200KTF7018	Fill-Rite	**4FY21**
40 gpm Particulate Spin On Filter, 10 Micron	F4010PM0	Fill-Rite	**3MMP3**
Filter Head, 1"	700ACCF7017	Fill-Rite	**3MME1**
Suction Pipe,Telescoping Steel, 20" x 34¾"	1200KTG9099	Fill-Rite	**24KJ40**
Vent Cap with Base, 2"	FRTCB	Fill-Rite	**24UY35**
Vented Replacement Cap	FRTC	Fill-Rite	**8EYE2**
Replacement Fuel Filter Canisters and Elements			
40 gpm Hydrosorb Spin On Filter, 30 Micron	F4030PM0	Fill-Rite	**4FY24**

For "How to Choose the Right Drum Pump," go to grainger.com/drumpump



No. 3ACA4

Oil Change Pumps and Systems

Dayton

Self-priming and feature 4000 rpm thermally protected motors.

Pumps—Plastic pumps have flexible nitrile impellers and lip seals, to provide fluid transfer with no metal-to-metal contact. ¾" MGHT input/output ports. TEFC motors, except No. 3ACA4 is ODP.

Systems—Complete with 12VDC pump and suction and discharge tubing. No. 3ACA8 includes a 4-gal. container. No. 3ACA7 includes a 3½-gal. container.

Voltage	Amps	Cord Length (ft.)	L (in.)	W (in.)	H (in.)	GPM of Water @ 0 ft. of Head	Max. Head (ft.)	Suction Lift (ft.)	Max. Viscosity	Temp. Range (F)	Item No.
Pumps											
115VAC	2.0	10	6¾	4¾	3⅜	4.0	40	7.5	3000 SSU	185	**3ACA4**
12VDC	7.5	1.0	6	4¾	3⅛	4.0	40	7.5	3000 SSU	185	**3ACA5**
12VDC	7.5	7.8	7⅝	4¾	3⅛	4.0	40	7.5	3000 SSU	185	**3ACA6**
Systems											
12VDC	7.5	7.8	13⅜	8¾	21	4.0	40	7.5	3000 SSU	185	**3ACA8**
12VDC	7.5	7.8	11¾	11¾	15¾	4.0	40	7.5	3000 SSU	185	**3ACA7**



No. 12F735



No. 5P233

Oil Pumps

Dayton FILL-RITE

Note: For combustible-rated liquid transfer tanks, see page 753.

DAYTON®

Pumps have aluminum, cast-iron, nitrile butadiene rubber (NBR), nylon, polypropylene, PVC, steel, and zinc wetted parts for transfer of antifreeze, bulk oils, and hydraulic fluids. Internal bypass valve operates when discharge pressure exceeds bypass valve setting. Pumps can transfer viscous fluids at low temps. Thermally protected motor. Include bung, 8-ft. discharge hose with dispensing nozzle, 34" suction pipe, and 2" bung adapter for mounting pump on drums or tanks.

FILL-RITE®

Diesel—An internal bypass valve prevents the motor from stalling when the pump is running and no liquid is being dispensed. With Buna N seals. No. 4RZJ4 is a portable pump that includes an inlet strainer, hose barbs, hose clamps, battery clips, in-line fuse, and polypropylene nozzle.

Transfer—Diaphragm pumps have polypropylene, stainless steel, and Philcon wetted parts for safe transfer of heavy industrial fluids and chemicals. Dual diaphragms optimize flow rate. Adjustable outlet port for easy installation. ¼-HP permanent magnet motors have thermal overload protection. For nonpotable water applications and particulate fluids to 1/10". Include 1" x 12-ft. Buna N hose, 1" manual nozzle, and telescoping suction pipe.

Note: Not for use with gasoline or fluids with a flash point of 100°F or less.

REBUILD KIT

Allows pump No. 4RZJ4 to be quickly and easily rebuilt and repaired in the field. Includes all vanes and seals.

Voltage	HP	Pump Design	Application	Hose Length	Nozzle Type	Self-Priming	GPM	Max. Viscosity	Includes	Mfr. Model	Item No.
Dayton											
110VAC	7/16	Centrifugal	Diesel, Kerosene, Mineral And Synthetic Oils, Heating Oils, Antifreeze, Water, Emulsions Etc.	8 ft.	Manual	No	10.5	500 SSU	Pump, Suction Tube, Discharge Hose, Nozzle, Hose Clamp	6HKV3	**6HKV3**
115 VAC	½	—	Oils, Synthetic Oils, Antifreeze, Used Oil, Hydraulic Fluids, Cutting Oils, Oil based Herbicides, Non Flammable Oil Based Solvents, Liquid Soap etc.	—	—	Yes	4.0	—	Suction Tube , Bung , Hose & Dispensing Nozzle	12F735	**12F735**
Fill-Rite											
12VDC	⅛	Rotary Vane	Diesel and Light Oils	8 ft.	Manual	Yes	10	50 SSU	¾" Plastic Nozzle, 8 ft. PVC Suction and Discharge Hoses, Inlet Strainer, 6 ft. 12 Gauge 2 Wire Battery Cable with Clips and 30A Fuse, (2) Hose Barbs, and (4) Hose Clamps	FR1614	**4RZJ4**
12 VDC	¼	Double Diaphragm	For Transferring Fluids Such As Ethylene Glycol, Diesel Fuel, Grease, Hydraulic Oil, Kerosene, Motor Oil, Water	12 ft.	Manual	Yes	13	3000 CP	1" x12 Feet Buna hose, 1" Manual Nozzle and Telescoping Suction Pipe	FR410B	**5P233**
115 VAC	¼	Double Diaphragm	For Transferring Fluids Such As Ethylene Glycol, Diesel Fuel, Grease, Hydraulic Oil, Kerosene, Motor Oil, Water	12 ft.	Manual	Yes	13	3000 CP	1" x 12 ft. Hose, 1" Manual Nozzle, 6 ft. Power Cord with USA Plug, Telescoping Steel Suction Pipe	FR450B	**4FY18**

	For Use With	Includes	Brand	Mfr. Model	Item No.
Rebuild Kit					
	FRSA120800, FRSD120800, FR1614	Vanes and Seals	Fill-Rite	KITFR1612	**4RZJ6**



Basic Pump with Discharge Hose
No. 19XH31



Grease Pump Operation Foot Pedal
No. 15F220

Grease Pumps

Westward Legacy Lincoln ARO

Hand-operated pumps are used to manually transfer or dispense high-viscosity grease from containers, drums, or self-contained reservoirs. They have few moving parts which makes pumps simple to use and maintain. They don't need to be connected to a compressed air supply making them more portable than air-powered models. Grease pumps are commonly used on farms and construction sites.

Item	For Container Size	Max. Flow Rate	Brand	Item No.
Basic Pump with Discharge Hose				
Hand Operated Drum Pump	16 gal.	2.8 oz. per stroke	Westward	**19XH31**
	55 gal.	2.8 oz. per stroke	Westward	**19XH30**
Basic Pump with Spout				
Hand Operated Drum Pump	55 gal.	2.8 oz. per stroke	Westward	**19XH29**
	55 gal.	8.70 oz. per stroke	Westward	**19XH39**

Item	Fits Container Size	Volume per Stroke	Brand	Item No.
Grease Pump Operation Foot Pedal				
Grease Pump with Container	22 lb.	0.07 oz.	Westward	**15F220**
Grease Pump Operation Lever				
Grease Gun Filler Pump	35 lb./5 gal.	2.13 oz.	Legacy	**4ZT38**
Grease Pump	35 lb./5 gal.	0.303 oz.	Lincoln	**6Y859**
Grease Pump Operation Lever and Grease Gun				
Grease Pump	55 gal.	1.9 oz.	Aro	**53RJ81**

Electric Drum Pumps

Motor-driven devices are powered directly from an electrical outlet or by an internal rechargeable battery to draw fluids out of a container. They generate consistent flows at a higher rate than hand drum pumps while dispensing moderate to large amounts of fluid.

Acid, Base, and Solvent—Made with corrosion-resistant materials that withstand a range of acidic and basic chemical concentrations. They are used to dispense and transfer moderate to large volumes of substances and solutions in laboratories and chemical processing plants.

Agricultural—Typically run on DC voltage so they can be powered by farm equipment batteries for use in the field or where an electrical outlet is not available. They're commonly used when dispensing, transferring, and applying large amounts of agricultural chemicals in farming, gardening, and landscaping applications.

Automotive Fluids, Fuel, and Oil—For dispensing and transferring moderate to large volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil in automotive service and fleet maintenance. Pumps operate without generating sparks or may include a grounding kit to prevent the ignition of combustible vapors or liquids and allow use with fuels and other flammable fluids.

Diesel Exhaust Fluid (DEF) Electric Pump Carts—Combine a motor-driven pump and a wheeled frame for mobile dispensing and transferring of large volumes of DEF. Carts are used specifically with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system.

Diesel Exhaust Fluid (DEF) Stationary—Used specifically with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. These pumps are certified to ISO standards that regulate the handling, transportation, and storage of DEF. They are used for dispensing and transferring moderate to large volumes of DEF when servicing late model vehicles and SCR-based stationary industrial systems that operate on diesel fuel.

Food and Sanitary—Comply with specific sanitary standards of the food and drug industry to minimize the risk of product contamination. They are commonly used for dispensing and transferring moderate to large volumes of syrups, juices, oils, and soaps in food, beverage, and pharmaceuticals production.

General Purpose—Designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer moderate to large volumes of fluid in general manufacturing and processing applications where a specialized pump isn't needed.


Acid, Base & Solvent
No. 5FZU5


Agricultural
No. 6XGW4


Automotive Fluids, Fuel & Oil
No. 38Y794

Motor HP	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Suction Tube Length	Max. Fluid Temp.	Max Head	Brand	Item No.
Acid, Base & Solvent									
110VAC Basic Pump with Discharge Hose									
1/3	55 gal	17 gpm	300 cP	316 SS, FKM, PTFE, ETFE	40"	212°F	20 ft	Finish Thomp.	**15R526**
1/3	55 gal	17 gpm	300 cP	PP, PTFE, FKM, 316 SS and PVC	40"	150°F	20 ft	Finish Thomp.	**5FZU5**
1/3	55 gal	17 gpm	300 cP	PP, PTFE, PVDF, FKM, 316 SS and PVC	40"	160°F	20 ft	Finish Thomp.	**5FZU7**
2/3	55 gal	40 gpm	500 cP	PP, PTFE, PVDF, FKM, 316 SS and PVC	40"	160°F	80 ft	Finish Thomp.	**5FZV1**
2/3	55 gal	40 gpm	500 cP	PP, PTFE, PVDF, FKM, Alloy 625 and PVC	40"	160°F	80 ft	Finish Thomp.	**5FZV3**
2/3	55 gal	40 gpm	500 cP	316 SS, PTFE, FKM, PVC	40"	220°F	80 ft	Finish Thomp.	**5FZV5**
2/3	275 gal	40 gpm	500 cP	PP, PTFE, PVDF, FKM, 316 SS and PVC	48"	160°F	80 ft	Finish Thomp.	**5FZV2**
2/3	275 gal	40 gpm	500 cP	PP, PTFE, PVDF, FKM, Alloy 625 and PVC	48"	160°F	80 ft	Finish Thomp.	**5FZV4**
110VAC Metered Dispensing with Manual Shut-Off									
1 1/10	55 gal	13 gpm	300 cP	CG, CER, Halar, Hastelloy C-276, PP, PVC, PVDF, V	39"	130°F	36 ft	Dayton	**1DLR3**
110VAC Unmetered Dispensing with Manual Shut-Off									
1	55 gal	32 gpm	1500 cP	CG, CPVC, Hastelloy C-276, PP, PVC, PVDF, V	39"	175°F	36 ft	Dayton	**1DLP4**
1 1/10	55 gal	15 gpm	1500 cP	CG, Hastelloy C-276, PP, PVC, V	39"	130°F	36 ft	Dayton	**1DLP8**
1 1/10	55 gal	15 gpm	1500 cP	CG, Hastelloy C-276, PP, Polyethylene, PVDF, V	39"	175°F	36 ft	Dayton	**1DLR1**
220VAC Metered Dispensing with Manual Shut-Off									
1 1/10	55 gal	13 gpm	300 cP	CG, CER, Halar, Hastelloy C-276, PP, PVC, PVDF, V	39"	130°F	36 ft	Dayton	**1DLR4**
220VAC Unmetered Dispensing with Manual Shut-Off									
1 1/10	55 gal	15 gpm	1500 cP	CG, CPVC, Hastelloy C-276, PP, PVC, PVDF, V	39"	175°F	36 ft	Dayton	**1DLP5**
Agricultural									
12VDC Basic Pump without Discharge Hose									
1/4	55 gal	13 gpm	3000 cP	PP, F, SS, SP	—	130°F	34 ft	Sotera	**6XGW4**
110VAC Basic Pump without Discharge Hose									
1/4	55 gal	13 gpm	3000 cP	PP, F, SS, SP	—	130°F	34 ft	Sotera	**6XGW2**
Automotive Fluids, Fuel & Oil									
12VDC Basic Pump with Discharge Hose									
	5 gal	1.4 gpm	500 cP	PP, Polyacetal, PVC,Polyethylene, Steel	15"	140°F	—	Dayton	**38Y794**
Diesel Exhaust Fluid (DEF) Electric Pump Carts									
110VAC Metered Dispensing with Automatic Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA82**
110VAC Metered Dispensing with Manual Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA83**
Diesel Exhaust Fluid (DEF) Stationary									
12VDC Metered Dispensing with Automatic Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA86**
12VDC Metered Dispensing with Manual Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA87**
110VAC Metered Dispensing with Automatic Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA78**
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA80**
1 1/10	55 gal	10 gpm	300 cP	CB, C, PP, PTFE, SS316	39"	130°F	72 ft	Dayton	**6GKR3**
1 1/10	275 gal	10 gpm	300 cP	CB, C, PP, PTFE, SS316	50"	130°F	72 ft	Dayton	**6GKR2**
110VAC Metered Dispensing with Manual Shut-Off									
1/10	55 gal, 275 gal, 330 gal	8 gpm	10 cP	EPDM, SS, PP	48"	104° F	48 ft	Liquidynamics	**45NA79**
110VAC Unmetered Dispensing with Automatic Shut-Off									
1/3	55 gal	5 gpm	300 cP	PP, PTFE, FKM, 316 SS and EPDM	40"	150°F	20 ft	Finish Thomp.	**5FZU3**
2/3	55 gal	10 gpm	500 cP	PP, PTFE, PVDF, FKM, 316 SS and EPDM	40"	160°F	80 ft	Finish Thomp.	**5FZT9**
2/3	275 gal	10 gpm	500 cP	PP, PTFE, PVDF, FKM, 316 SS and EPDM	48"	160°F	80 ft	Finish Thomp.	**5FZU1**
1 1/10	55 gal	11 gpm	300 cP	CB, C, PP, PTFE, SS316	39"	130°F	72 ft	Dayton	**6GKR1**
1 1/10	275 gal	11 gpm	300 cP	CB, C, PP, PTFE, SS316	50"	130°F	72 ft	Dayton	**6GKR0**
Food & Sanitary									
110VAC Basic Pump without Discharge Hose									
1 1/10	55 gal	12 gpm	10,000 cP	316L SS, SC, PTFE V	39"	175°F	200 ft	Dayton	**1DLT1**
1 1/10	55 gal	35 gpm	1000 cP	316L SS, PTFE	39"	175°F	36 ft	Dayton	**3PXJ9**
1 1/10	55 gal	35 gpm	1000 cP	316L SS, PTFE	39"	175°F	92 ft	Dayton	**3PXK1**
220VAC Basic Pump without Discharge Hose									
1 1/10	55 gal	35 gpm	1000 cP	316L SS, PTFE	39"	175°F	36 ft	Dayton	**3PXJ8**
General Purpose									
110VAC Basic Pump with Discharge Hose									
1/4	55 gal	7 gpm	400 cP	SS, Brass, PTFE	40"	150°F	10 ft	Finish Thomp.	**3DYK2**
1/4	55 gal	10 gpm	400 cP	SS, PTFE	40"	150°F	10 ft	Finish Thomp.	**3DYK1**

** C = carbon, CB = carboblue, CER = ceramic, CG = carbon graphite, CPVC = chlorinated polyvinyl chloride, EPDM = ethylene propylene diene monomer rubber, ETFE = ethylene tetrafluoroethylene, F = fluorocarbon, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, SC = silicon carbide, SP = santoprene, SS = stainless steel, V = viton.*


DEF Electric Pump Carts
No. 45NA82


DEF Stationary
No. 45NA86


Food & Sanitary
No. 3PXJ9

General Purpose
No. 3DYK2



Acid, Base & Solvent No. 53JU96



Automotive Fluids, Fuel & Oil No. 5UWG8



Diesel Exhaust Fluid No. 5FZU2



General Purpose No. 5UWG1

Dayton ARO FTI FINISH THOMPSON INC. VERSA-MATIC

Pneumatic Drum Pumps

Allow more precise flow control than electric drum pumps and generate higher flow rates than hand drum pumps to dispense or transfer moderate to large amounts of fluid. They are powered by a compressed air supply to draw out fluids from a container and are suitable for use in facilities with air compressors or compressed air systems.

Acid, Base, and Solvent—Constructed of corrosion-resistant materials that withstand a range of acidic and basic chemical concentrations. Pumps are used to dispense and transfer moderate to large volumes of substances and solutions in laboratories and chemical processing plants.

Automotive Fluids, Fuel, and Oil—Suitable for dispensing and transferring moderate to large volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil. Sometimes called an air-operated oil transfer pump or a pneumatic fuel transfer pump, they are commonly used during automotive service and fleet maintenance to drain fuel tanks and remove spent fluids from vehicles and engine-powered machinery.

Diesel Exhaust Fluid (DEF)—For use with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. These pumps are certified to ISO standards that regulate the handling, transportation, and storage of DEF. They're typically used for dispensing and transferring moderate to large volumes of DEF when servicing late model trucks and SUVs as well as SCR-based stationary industrial systems that operate on diesel fuel.

General Purpose—Designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer moderate to large volumes of fluid in general manufacturing and processing applications where a specialized pump is not needed.

For Container Size	Max. Flow Rate	Air Inlet Size	Wetted Materials*	Includes	Suction Tube Length	Max. Viscosity	Max. Fluid Temp.	Max. Head	Brand	Item No.
Acid, Base & Solvent										
Basic Pump with Discharge Hose										
	12.5 gpm	¼ in FNPT	Santoprene	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	40½"	15000 cP	180°F	231 ft.	Dayton	**53JU96**
	14.4 gpm	¼ in FNPT	PP, Polyurethane	10 Ft Discharge Hose, 2 PC Bung Adapter, Filter/Regulator	38"	200 cP	—	—	Aro	**1ZRZ2**
	15 gpm	¼ in MNPT	316 SS, FKM, PTFE, ETFE	Pump, Motor, Hose, Clamp	40"	300 cP	212°F	17 ft.	Finish Thompson	**15R527**
	15 gpm	¼ in FNPT	Hytrel	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	39 3/16"	15000 cP	225°F	231 ft.	Dayton	**53JU98**
	15 gpm	¼ in MNPT	PP, PTFE, FKM, 316SS & PVC	Pump, Motor, Hose, Clamp	40"	300 cP	150°F	5 to 17 ft.	Finish Thompson	**5FZU6**
55 gal	15 gpm	¼ in MNPT	PP, PTFE, PVDF, FKM, Alloy 625 & PVC	Pump, Motor, Hose, Clamp	40"	300 cP	160°F	5 to 17 ft.	Finish Thompson	**5FZU8**
	16 gpm	¼ in MNPT	CPVC, PTFE, Alloy 625	Motor, Hose and Clamp	40"	1500 cP	150°F	30 ft.	Finish Thompson	**3DYJ7**
	16 gpm	¼ in MNPT	SS, Brass, PTFE	Motor and Static Kit	40"	2000 cP	150°F	10 ft.	Finish Thompson	**3DYK4**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, Viton, Alloy 625	Motor, Hose and Clamp	40"	330 cP	160°F	38 ft.	Finish Thompson	**3DYJ2**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, Viton, SS	Motor, Hose and Clamp	40"	330 cP	160°F	38 ft.	Finish Thompson	**3DYH7**
	22 gpm	¼ in MNPT	PVDF, PTFE, Viton, Alloy 625	Motor, Hose and Clamp	40"	330 cP	120°F	38 ft.	Finish Thompson	**3DYJ5**
	22 gpm	¼ in MNPT	SS, PTFE, Tefzel, Viton	Motor, Hose and Clamp	40"	330 cP	220°F	38 ft.	Finish Thompson	**3DYJ9**
	16 gpm	¼ in MNPT	SS, Brass, PTFE	Motor and Static Kit	40"	2000 cP	150°F	10 ft.	Finish Thompson	**3DYK5**
275 gal	22 gpm	¼ in MNPT	PP, PTFE, PVDF, Viton, Alloy 625	Motor, Hose and Clamp	48"	330 cP	160°F	38 ft.	Finish Thompson	**3DYJ3**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, Viton, SS	Motor, Hose and Clamp	48"	330 cP	160°F	38 ft.	Finish Thompson	**3DYH8**
Basic Pump without Discharge Hose										
	4 gpm	¼ in FNPT	Carbon Steel, PTFE	—	33 1/16"	1000 cP	—	—	Aro	**3ZA80**
	4 gpm	¼ in FNPT	Carbon Steel, PTFE	Suction Tube, 3" Diameter Air Motor	11 23/32"	4000 cP	—	—	Aro	**3P961**
	4 gpm	¼ in FNPT	SS, Polyethylene	—	19⅞"	1000 cP	—	—	Aro	**3ZA78**
	4 gpm	¼ in FNPT	SS, PTFE	—	33 1/16"	1000 cP	—	—	Aro	**3ZA79**
55 gal	10 gpm	⅜ in MNPT	SS, PTFE	Motor and Clamp	40"	7000 cP	200°F	90 ft.	Finish Thompson	**3DYL1**
	11 gpm	⅜ in FNPT	PP, Buna	Air Filter/Regulator	29 7/16"	1000 cP	180°F	—	Versa-Matic	**40XD28**
	11 gpm	⅜ in FNPT	PP, PTFE	Air Filter/Regulator	29 7/16"	1000 cP	180°F	—	Versa-Matic	**40XD29**
	11 gpm	⅜ in FNPT	PP, Santoprene	Air Filter/Regulator	29 7/16"	1000 cP	180°F	—	Versa-Matic	**40XD30**
	12 gpm	¼ in FNPT	316 SS, PTFE	—	39 39/64"	200 cP	—	—	Aro	**1ZRZ4**
Automotive Fluids, Fuel & Oil										
Basic Pump without Discharge Hose										
	3.7 gpm	¼ in FNPT	Steel, Brass, Aluminum, Nitrile Rubber, Polyurethane, Turcite	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37⅜"	850 cP	140°F	26 ft.	Dayton	**5UWG8**
	4.76 gpm	¼ in FNPT	Steel, Brass, Aluminum, Nitrile Rubber, Polyurethane, Turcite	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37"	1750 cP	140°F	26 ft.	Dayton	**4AYD6**
55 gal	9 gpm	¼ in FNPT	Carbon Steel, Buna	2" Bung Adapter, Air Line Coupler, Connector and Needle Valve, 2" Air Motor	34⅝"	200 cP	—	—	Aro	**2P529**
	10.6 gpm	¼ in FNPT	Steel, Brass, Aluminum, Nitrile Rubber, Polyurethane, Nylon	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37"	440 cP	140°F	26 ft.	Dayton	**5UWG6**
	12 gpm	¼ in FNPT	Aluminum, Hytrel	—	39 39/64"	200 cP	—	—	Aro	**1ZRZ5**
Diesel Exhaust Fluid (DEF)										
Basic Pump with Discharge Hose										
55 gal	12.5 gpm	¼ in FNPT	PTFE	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	39 3/16"	15000 cP	212°F	231 ft.	Dayton	**53JU97**
	14.4 gpm	¼ in FNPT	PP, Santoprene	10 Ft Discharge Hose, 2 PC Bung Adapter, Filter/Regulator	38"	200 cP	—	—	Aro	**1ZRZ3**
Unmetered Dispensing with Automatic Shut-Off										
	8 gpm	⅛ in FNPT	PP, 316SS, Carbon, PTFE, CarboBlue	Pump Package	41"	450 cP	130°F	40 ft.	Dayton	**6GKR5**
55 gal	15 gpm	¼ in MNPT	PP, PTFE, FKM, 316SS & EPDM	Pump, Motor, Hose, Clamp, S.S Automatic Nozzle, Sealed Adapter	40"	300 cP	150°F	5 to 17 ft.	Finish Thompson	**5FZU4**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, FKM, 316SS & EPDM	Pump, Motor, Hose, Clamp, S.S Automatic Nozzle, Sealed Adapter	40"	300 cP	160°F	10 to 38 ft.	Finish Thompson	**5FZU0**
	8 gpm	⅛ in FNPT	PP, 316SS, Carbon, PTFE, CarboBlue	Pump Package	53"	450 cP	130°F	40 ft.	Dayton	**6GKR4**
275 gal	22 gpm	¼ in MNPT	PP, PTFE, PVDF, FKM, 316SS & EPDM	Pump, Motor, Hose, Clamp, S.S Automatic Nozzle, Sealed Adapter	48"	300 cP	160°F	10 to 38 ft.	Finish Thompson	**5FZU2**
General Purpose										
Basic Pump without Discharge Hose										
55 gal	10.6 gpm	¼ in FNPT	SS, Zinc, Nitrile Rubber, Nickel Plated Steel, Aluminum	2" Bung Adapter	22½"	1500 cP	140°F	10 ft.	Dayton	**5UWG1**

**** CPVC = chlorinated polyvinyl chloride, ETFE = ethylene tetrafluoroethylene, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, SS = stainless steel.***

Drum Pump Motors

Used to drive the impeller of a drum pump to draw fluids out of a container. Motors typically have a threaded connection on their base for attaching a drum pump tube to form a complete pump assembly. Commonly used to replace or upgrade an existing motor and can be paired with a compatible drum pump tube to allow one motor to be used with different container types or sizes.



General Purpose No. 1DLK6


General Purpose No. 5FZV6


Pneumatic No. 3DYN8

General Purpose Electric—Draw power directly from an electrical outlet or from an internal rechargeable battery to drive the impeller of a pump. They transfer a range of nonflammable fluids in everyday environments and deliver a steady supply of power for more consistent and accurate flow rates than pneumatic motors.

Pneumatic—Operate on a compressed air supply to drive the impeller of a pump and have less risk of ignition than general purpose electric motors so they can be used with a wider range of fluids. Their air-powered design provides precise control of motor torque and operates without straining or overloading an electrical system.


Pneumatic No. 5UWF2

Nominal Voltage	Motor HP	Full Load Amps	Duty Cycle	Housing Material	Includes	Brand	Item No.
General Purpose Electric							
12 V DC	⅛	10.8	Continuous	Nylon	230V Charger, Wall Hanger	Finish Thompson	40P656
	⅛	10.8	Continuous	Nylon	12V Car Charger	Finish Thompson	40P657
	⅛	10.8	Continuous	Nylon	Cordless Motor and Battery Pack	Finish Thompson	40P658
110 V AC	1	8.5	Intermittent	Anodized Aluminum	—	Dayton	1DLK8
	1	8.5	Intermittent	Plastic	—	Dayton	1DLK6
	⅓	2.0	Continuous	Nylon	Motor, Cord & Plug	Finish Thompson	5FZV6
	¾	5.8	Intermittent	Plastic	—	Dayton	5UWF1
	½	5.6	Continuous	Nylon	Motor, 12 ft. Power Cord, Plug	Finish Thompson	5FZV8
220 V AC	1	5	Intermittent	Anodized Aluminum	—	Dayton	1DLK9
	1	5	Intermittent	Plastic	—	Dayton	1DLK7

Motor HP	Air Consumption	Air Inlet Size	Motor RPM	Max. Air Pressure	Brand	Item No.
Pneumatic						
½	27 cfm	⅛ in FNPT	10,000	80 psi	Dayton	11Z376
	27 cfm @ 40 psi	¼ in MNPT	300 to 11,000	100 psi	Finish Thompson	5FZV7
	32 cfm @100 psi	¼ in MNPT	9000	100 psi	Finish Thompson	3DYN8
¾	15 cfm	⅛ in FNPT	8000	90 psi	Dayton	5UWF2

Drum Pump Tubes

Have a rigid intake shaft and an impeller for drawing fluid out of a container. Also called a barrel tube, these tubes attach to a pump motor and fit through the opening of a container to dip into the fluid within. The impeller rotates when driven by a pump motor to move fluid through the shaft and up to the outlet of the pump. Drum pump tubes can replace a damaged tube on an existing drum pump assembly or be paired with a separate motor to create a custom pump assembly. They can also be swapped out to adapt a drum pump for compatibility with different fluids.


316 Stainless Steel Suction Tube No. 15R523


Aluminum Suction Tube No. 53RU60


CPVC Suction No. 1DLL1


Polypropylene Suction No. 5FZU9


Polypropylene Suction Tube No. 3DYL2

Suction Tube Length	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Max. Fluid Temp.	Brand	Item No.
316 Stainless Steel Suction Tube Material							
16"	5 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212°F	Finish Thompson	15R523
35½"	55 gal	24 gpm	750 CPS	316 SS, Aluminum, PTFE	200°F	Dayton	5UWF5
40"	30 gal, 55 gal	10 gpm	15000 CPS	SS, PTFE	200°F	Finish Thompson	3DYN5
40"	30 gal, 55 gal	16 gpm	2000 CPS	SS, PTFE	150°F	Finish Thompson	3DYN2
40"	30 gal, 55 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212°F	Finish Thompson	15R524
40"	30 gal, 55 gal	40 gpm	2000 CPS	SS, PTFE, Tefzel, Viton	220°F	Finish Thompson	3DYL6
48"	55 gal, 275 gal	16 gpm	2000 CPS	SS, PTFE	150°F	Finish Thompson	3DYN3
48"	55 gal, 275 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212°F	Finish Thompson	15R525
Aluminum Suction Tube Material							
39"	55 gal	35 gpm	1500 CPS	Aluminum, Carbon Graphite, PTFE, 316 SS	175°F	Dayton	53RU60
47"	275 gal	35 gpm	1500 CPS	Aluminum, Carbon, PTFE, 316 SS	175°F	Dayton	53RU61
CPVC Suction Tube Material							
35½"	55 gal	24 gpm	750 CPS	CPVC, Aluminum, Hastelloy C, PTFE, Viton	140°F	Dayton	5UWF4
39"	55 gal	35 gpm	1500 CPS	CPVC, Carbon Graphite, Hastelloy C-276, PTFE, PVDF	175°F	Dayton	1DLL1
40"	55 gal, 275 gal	16 gpm	2000 CPS	CPVC, PTFE, Alloy 625	150°F	Finish Thompson	3DYN4
Kynar Suction Tube Material							
35½"	55 gal	24 gpm	750 CPS	Kynar®, Aluminum, Hastelloy C, PTFE	165°F	Dayton	5UWF6
PVDF Suction Tube Material							
39"	55 gal	35 gpm	1500 CPS	Carbon Graphite, Hastelloy C-276, PTFE, PVDF	175°F	Dayton	1DLL3
40"	30 gal, 55 gal	40 gpm	2000 CPS	PVDF, PTFE, Viton, Alloy 625	120°F	Finish Thompson	3DYL7
48"	55 gal, 275 gal	40 gpm	2000 CPS	PVDF, PTFE, Viton, Alloy 625	120°F	Finish Thompson	3DYL8
Polypropylene Suction Tube Material							
16"	5 gal	17 gpm	300 CPS	PP, FKM, PTFE, 316 SS	150°F	Finish Thompson	15R521
16"	5 gal	17 gpm	300 CPS	PP, PVDF, FKM, PTFE, ETFE, Alloy 625	150°F	Finish Thompson	15R522
35½"	55 gal	24 gpm	750 CPS	PP, Aluminum, Carpenter 20, PTFE, Viton	130°F	Dayton	5UWF3
39"	55 gal	35 gpm	1500 CPS	Carbon Graphite, Hastelloy C-276, PP, PTFE	130°F	Dayton	1DLL2
40"	30 gal, 55 gal	17 gpm	300 CPS	PP, PTFE, FKM, 316 SS	160°F	Finish Thompson	5FZU9
40"	30 gal, 55 gal	17 gpm	300 CPS	PP, PTFE, PVDF, FKM, Alloy 625	160°F	Finish Thompson	5FZV0
40"	30 gal, 55 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, Alloy 625	160°F	Finish Thompson	3DYL4
40"	30 gal, 55 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, SS,	160°F	Finish Thompson	3DYL2
48"	55 gal, 275 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, Alloy 625	160°F	Finish Thompson	3DYL5
48"	55 gal, 275 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, SS,	160°F	Finish Thompson	3DYL3

** C = carbon, CPVC = chlorinated polyvinyl chloride, ETFE = ethylene tetrafluoroethylene, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluorethylene, PVDF = polyvinylidine difluoride, SS = stainless steel.*

Description	Brand	Item No.
Accessories		
Suction Strainer	Dayton	5UWF8
Bung Adapter	Dayton	5UWG0
Drum Pump Nozzle	Dayton	5UWF9



General Purpose, Basic Pump with Discharge Hose No. 4P018



General Purpose, Basic Pump with Spout No. 5UWG4



Cleaning, Basic Pump with Discharge Hose No. 494P32



Cleaning, Basic Pump with Spout No. 3KUL5



Food and Sanitary, Basic Pump with Discharge Hose No. 49XY67





Food & Sanitary, Basic Pump with Spout No. 21YL49



Diesel Exhaust Fluid, Basic Pump with Discharge Hose No. 4HA27



Diesel Exhaust Fluid, Basic Pump with Spout No. 38Y789

Hand Drum Pumps

Allow pumping where there's no access to a power source and ideal for dispensing and transferring small amounts of fluid. These manually powered devices, sometimes called a manual or rotary drum pump, are operated by a crank, lever, or other mechanism to draw fluids out of a container.

General Purpose—General purpose hand drum pumps are designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer small volumes of fluid in general manufacturing and processing applications where a specialized pump isn't needed.

Cleaning—Manually powered devices are operated by a lever or other mechanism to dispense and transfer small volumes of soap, detergent, degreaser, wax, or other cleaning solutions used in janitorial and sanitation. They allow pumping where there's no access to a power source and include an adapter that allows the shaft of the pump to be mounted through the bung hole of a drum or other container. Pumps are made of materials that withstand the potentially corrosive effects of cleaning products.

Food and Sanitary—Comply with specific sanitary standards of the food and drug industry to minimize the risk of product contamination. Also called food grade drum pumps, they allow pumping where there's no access to a power source. Pumps are typically used to dispense and transfer small volumes of syrups, juices, oils, and soaps in food, beverage, and pharmaceuticals production.

Diesel Exhaust Fluid (DEF)—Designed for use with Diesel Exhaust Fluid (DEF) to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. They can draw small volumes of DEF out of a container and allow pumping where there's no access to a power source. For use when servicing late model trucks and SUVs as well as SCR-based stationary industrial systems that operate on diesel fuel.

Automotive Fluids, Fuel & Oil—Manually operated by a crank, lever, or other mechanism they allow pumping where there's no access to a power source and can dispense and transfer small volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil. Pumps and are commonly used during automotive service and fleet maintenance to drain fuel tanks and remove spent fluids from vehicles and engine-powered machinery.

Acid, Base, and Solvent—Operated by a lever or other mechanism to dispense and transfer small volumes of substances and solutions in laboratories and chemical processing plants. They allow fluid transfer where there's no access to a power source. Pumps have corrosion-resistant construction that withstands a range of acidic and basic chemical concentrations.

Action Type	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Brand	Item No.
General Purpose						
Basic Pump with Discharge Hose						
Piston	55 gal	160 oz. per stroke	1 cP	ABS, Buna-N	Rule	**4P018**
Basic Pump with Spout						
Piston	1 gal	1 oz. per stroke	1000 SSU	PE, PP	Dayton	**5UWG4**
Piston	1 gal	1 oz. per stroke	1000 SSU	PE, PP	Dayton	**5UWG3**
Piston	55 gal	22 oz. per stroke	1000 SSU	N, PTFE,Viton, SS, Cork, Nitrile	Dayton	**5UWH3**
Piston	55 gal	22 oz. per stroke	1000 SSU	PP, PTFE,Viton, SS, Cork, Nitrile	Dayton	**5UWH4**
Rotary	55 gal	10 gpm @ 120 strokes	2000 SSU	S, CI, and Buna Rubber	Dayton	**7P071**
Rotary	55 gal	27 gpm @ 120 strokes	5000 SSU	S, Cast AL, CI, NRB PE	Dayton	**7P085**
Cleaning						
Basic Pump with Discharge Hose						
Piston	15 gal, 30 gal, 55 gal	28 oz. per stroke	1500 SSU	PVC, PE	Action Pump	**494P32**
Piston	15 gal, 30 gal, 55 gal	28 oz. per stroke	1500 SSU	PVC, PE	Action Pump	**494P33**
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	8, 10 or 12 oz. per stroke	1000 cP	PP, 304 SS, Viton	Action Pump	**3KUL5**
Lever	15 gal, 30 gal, 55 gal	8, 10 or 12 oz. per stroke	1000 cP	PP, Carbon S	Action Pump	**3KUL3**
Food and Sanitary						
Basic Pump with Discharge Hose						
Siphon	5 gal	2 oz. per stroke	300 cP	PE, SS	GA	**49XY75**
Siphon	15 gal, 30 gal, 55 gal	5 oz. per stroke	420 cP	PE	GA	**49XY67**
Basic Pump with Spout						
Lever	55 gal	10 oz. per stroke	2200 cP	PP, SS	GA	**21YL49**
Piston	5 gal	16 oz. per stroke	8000 cP	PP, PE	GA	**8AZV1**
Piston	55 gal	8 oz. per stroke	8000 cP	PP, PE	GA	**8AZV4**
Piston	55 gal	15 oz. per stroke	8800 cP	PP, PE	Action Pump	**49XY73**
Diesel Exhaust Fluid (DEF)						
Basic Pump with Discharge Hose						
Lever	15 gal, 30 gal, 55 gal	17 oz. per stroke	1000 SSU	PT, PP, PE, Viton, PVC	Dayton	**5UWG7**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz. per stroke	4000 SSU	PVC, Glass, Viton	Dayton	**3BY43**
Piston	15 gal, 30 gal, 55 gal	22 oz. per stroke	4000 SSU	PVC, Viton, Glass	Dayton	**3BY44**
Piston	55 gal	5 gpm @ 120 strokes	500 SSU	PE, PP	Dayton	**4HA27**
Piston	55 gal	7 gpm @ 120 strokes	500 SSU	PE, PP	Dayton	**4HA28**
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	10 oz. per stroke	1500 SSU	Polyphenylene Sulfide, PVDF, SS	Dayton	**5XA54**
Lever	15 gal, 30 gal, 55 gal	10 oz. per stroke	1500 SSU	PVDF, SS	Dayton	**5XA55**
Lever	15 gal, 30 gal, 55 gal	12 oz. per stroke	2000 SSU	304 SS, PTFE	Dayton	**38Y792**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz. per stroke	4000 SSU	PVC, Viton, Glass	Dayton	**4HA32**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz. per stroke	5000 SSU	SS, PTFE	Dayton	**4HA31**
Piston	15 gal, 30 gal, 55 gal	20 oz. per stroke	2000 SSU	SS, PTFE	Dayton	**3BY48**
Piston	15 gal, 30 gal, 55 gal	22 oz. per stroke	4000 SSU	PVC, Viton, Glass	Dayton	**4HA33**
Rotary	15 gal, 30 gal, 55 gal	8 oz. per stroke	5000 SSU	Glass Filled PP ,304 SS ,Ryton,PTFE	Dayton	**38Y790**
Rotary	15 gal, 30 gal, 55 gal	12 gpm @ 120 strokes	2000 SSU	304 SS, PTFE, PVDF	Dayton	**38Y793**
Rotary	15 gal, 30 gal, 55 gal	12 gpm @ 120 strokes	2000 SSU	PTFE,304 SS, PVDF	Dayton	**38Y791**
Siphon	5 gal	2 gpm @ 120 strokes	500 SSU	PE	Dayton	**38Y789**

** ABS = acrylonitrile butadiene styrene, AL = aluminum, BR = brass, EPDM = ethylene propylene diene monomer rubber, N = nylon, NBR = nitrile butadiene rubber, NR = nitrile rubber, NRB = nitrile Buna-N rubber, PE = polyethylene, POM = acetal, PP = polypropylene, PPCP = polypropylene co-polymer, PPS = polyphenylene sulfide, PT = polyacetal, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, S = steel, SS = stainless steel, TP = thermoplastic polyurethane.*

CONTINUED

CONTINUED

Hand Drum Pumps

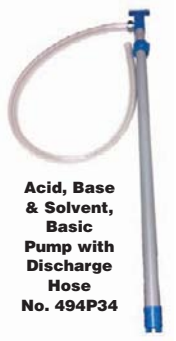
Action Type	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Brand	Item No.
Diesel Exhaust Fluid (DEF) (Cont.)						
Unmetered Dispensing with Automatic Shut-Off						
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	EPDM, SS, PP	Liquidynamics Inc.	49XX26
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	SS, PE, Viton	Liquidynamics Inc.	48GP46
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	Viton®, PP	Liquidynamics Inc.	52LC68
Unmetered Dispensing with Manual Shut-Off						
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	EPDM, SS, PP	Liquidynamics Inc.	49XX27
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	SS, PE, Viton	Liquidynamics Inc.	48GP47
Lever	55 gal, 275 gal, 330 gal	10 oz. per stroke	10 cP	Viton®, PP	Liquidynamics Inc.	52LC69
Automotive Fluids, Fuel and Oil						
Basic Pump with Discharge Hose						
Lever	55 gal	4.4 gpm @ 120 strokes	1680 SSU	PT, TP, SS, PVC	Dayton	4AYD5
Piston	1L	0.14 oz. per stroke	3000 SSU	PE, AL, NR Buna-N, S, PVC	Dayton	2UY12
Piston	15 gal, 30 gal, 55 gal	8 oz. per stroke	3000 SSU	PVC, PP, Viton	Dayton	2UY14
Piston	30 gal, 55 gal	3.3 oz. per stroke	500 SSU	BR, NRB PPCP, Aluminium, N	Dayton	5UWH0
Piston	30 gal, 55 gal	8.5 oz. per stroke	500 SSU	BR, NRB PPCP, Aluminium, N	Dayton	5UWG9
Rotary	15 gal	10 oz. per stroke	900 cP	Ryton®, Viton®, SS, PTFE	Action Pump	49XY79
Rotary	15 gal	10 oz. per stroke	900 cP	Ryton®, Viton®, SS, PTFE	Action Pump	49XY76
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	10 oz. per stroke	700 cP	S, Viton	Dayton	4AYD4
Lever	15 gal, 30 gal, 55 gal	15 oz. per stroke	4000 cP	Zinc Alloy, Plated S, PE, PP, NBR	Dayton	3BY42
Lever	15 gal, 30 gal, 55 gal	16 oz. per stroke	1500 SSU	AL, S, PE, Buna	Dayton	4HA26
Lever	55 gal	11 oz. per stroke	50 SSU	PP, Fluorocarbon	Fill-Rite	30J077
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz. per stroke	4000 SSU	PP, PE	Dayton	3BY45
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz. per stroke	5000 SSU	S, PE	Dayton	4HA30
Piston	5 gal, 15 gal, 30 gal, 55 gal	16 oz. per stroke	4000 SSU	PP, PE	Dayton	3BY46
Piston	15 gal, 30 gal, 55 gal	20 oz. per stroke	2000 SSU	S, PE	Dayton	3BY47
Piston	55 gal	11 oz. per stroke	50 SSU	PP, Fluorocarbon	Fill-Rite	6XGV2
Piston	55 gal	14 oz. per stroke	8000 SSU	N, PP, SS, PTFE	Dayton	2RUK1
Piston	55 gal	14 oz. per stroke	8000 SSU	PP, S, Viton	Dayton	2RUJ9
Piston	55 gal	25 oz. per stroke	1500 SSU	AL, Buna-N, PTFE Resin, 301 SS, Zinc-Plated S	Fill-Rite	3KUE7
Rotary	15 gal, 30 gal, 55 gal	8 gpm @ 120 strokes	2000 SSU	PVDF, 304 SS	Dayton	3BY41
Rotary	15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2000 SSU	CI, S, Graphite, POM, NRB Paper	Dayton	4VCR2
Rotary	15 gal, 30 gal, 55 gal	15 gpm @ 120 strokes	2000 SSU	S, CI, Buna	Dayton	4HA38
Hand Pump Only						
Rotary	5 gal, 15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2000 SSU	S, CI, Buna Rubber	Dayton	4HA34
Rotary	5 gal, 15 gal, 30 gal, 55 gal	27 gpm @ 120 strokes	1500 SSU	S, Cast AL, CI, NRB PE	Dayton	4HA35
Metered Dispensing with Manual Shut-Off						
Rotary	15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2000 SSU	CI, S, Graphite, POM, NRB Paper, Aluminium, Buthil Tereftalat	Dayton	6HKV4
Unmetered Dispensing with Manual Shut-Off						
Lever	15 gal, 30 gal, 55 gal	27 oz. per stroke	1500 SSU	AL,S, SS,PT,NBR	Dayton	2RUK2
Piston	5 gal	2 oz. per stroke	5000 SSU	N, Rubber, S, PVC, BR, AL	Dayton	5XA53
Piston	55 gal	25 oz. per stroke	1500 SSU	AL, Buna-N, PTFE Resin, 301 SS, Zinc-Plated S	Fill-Rite	1P892
Rotary	55 gal	13 oz. per stoke	1500 SSU	CI, Buna-N, 301 SS, Zinc-Plated S	Fill-Rite	1P893
Rotary	55 gal	13 oz. per stoke	1500 SSU	CI, Buna-N, 301 SS, Zinc-Plated S	Fill-Rite	4FY14
Acid, Base and Solvent						
Basic Pump with Discharge Hose						
Piston	15 gal, 30 gal, 55 gal	28 oz. per stroke	1500 SSU	PVC	Action Pump	494P34
Piston	30 gal, 55 gal	28 oz. per stroke	650 cP	PVC, PE	Action Pump	6PFL1
Piston	30 gal, 55 gal	36 oz. per stroke	650 cP	PVC, PE	Action Pump	6PFL0
Siphon	15 gal, 30 gal, 55 gal	4 oz. per stroke	1000 SSU	PVC	Action Pump	494P35



Automotive Fluids, Fuel & Oil, Basic Pump with Discharge Hose No. 4AYD5



Automotive Fluids, Fuel & Oil, Basic Pump with Spout No. 4AYD4



Acid, Base & Solvent, Basic Pump with Discharge Hose No. 494P34



Acid, Base & Solvent Basic Pump with Discharge Hose No. 494P35

Item	Wetted Materials*	Brand	Item No.
General Purpose Hand Drum Pumps Accessories			
Bung Adapter	Polypropylene	Dayton	1DLT4
Fume Barrier	Polypropylene/Viton	Dayton	1DLT6
Suction Strainer	Polypropylene	Dayton	1DLT8
Suction Strainer	Kynar	Dayton	1DLU1
Quick Disconnect	Polypropylene	Dayton	1DLU7
Drum Pump Bracket	304SS	Dayton	1DLU6

** ABS = acrylonitrile butadiene styrene, AL = aluminum, BR = brass, EPDM = ethylene propylene diene monomer rubber, N = nylon, NBR = nitrile butadiene rubber, NR = nitrile rubber, NRB = nitrile Buna-N rubber, PE = polyethylene, POM = acetal, PP = polypropylene, PPCP = polypropylene co-polymer, PPS = polyphenylene sulfide, PT = polyacetal, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, S = steel, SS = stainless steel, TP = thermoplastic polyurethane.*

Digital Hydronic Manometers

Meters help balance hydronic heating and cooling systems and check pump performance.

No. 5LB25—Meter displays differential, high-side, and low-side pressures simultaneously, without having to change hose connections or instrument valve settings. Features a backlit display. Includes a carrying case, hose set, batteries, and an AC adapter.

No. 5LB24—Has all the same features as No. 5LB25, plus displays volumetric flow when a Cv (Kv) factor is programmed. Up to 100 Cv (Kv) factors can be entered. Meter also calculates brake power, heat flow, Cv (Kv) factors, and impeller sizing. Stores up to 1000 data points for later recall or download to a PC using the USB interface. Also includes interface cable and software.

Nos. 48GC43 to 48GC48—Feature a field-adjustable damping function that lets you choose the level of display averaging rate corresponding to the fluctuation level. Models also have a hold feature, visual and audible overpressure alarms, memory function that stores up to 40 readings, and a backlight that provides auxiliary illumination for low-light conditions.

Pressure Range	Pressure Resolution	Pressure Accuracy	Operating Temp. Range	Flow Range (gpm)	Power Source	Battery Life	Brand	Mfr. Model	Item No.
+/-2068 kPa, +/-300 psi	0.001 psi, 0.01 kPa	±1% of rdg	4° to 45°C, 40° to 113°F	0 to 9999	4 AA Cell Batteries	Minimum 12 hrs.	TSI Alnor	HM 675	5LB25
								HM 685	5LB24
0 to 15 psi	0.01 psi	±0.5%	32° to 140°F	—	9V Alkaline Battery	100 hrs.	Dwyer	490A-1	48GC43
0 to 30 psi								490A-2	48GC44
0 to 50 psi								490A-3	48GC45
0 to 100 psi								490A-4	48GC46
0 to 200 psi	0.1 psi							490A-6	48GC48
0 to 500 psi								490A-5	48GC47



No. 5LB25


No. 2A554


No. 4YM31


No. 2A551

Madison
Sensing Solutions since 1959

Vertical-Mount Liquid Level Switches

These float switches mount in the top and/or bottom of a tank or vessel to actuate High/Low alarms, control relays, PLC's, or other low power devices. Encapsulated, magnetic dry contact reed switches can deliver more than 5 million switching cycles at rated electrical loads.

On select models, operation can be changed to be Normally Closed or Normally Open (dry, empty tank conditions) by removing and flipping the floats.

During installation, Adjustable Vertical models can be set lower by up to 2", or higher by up to 69".


No. 2ZY87


No. 2ZY89


No. 3AY51

Item	Tank Connection Size	VA Rating	Operating Temp. Range	Max. Pressure (psi)	Switch Function	Overall Length	Float Material	Float Length	Float Dia.	Stem Material	Stem Length	Mfr. Model	Item No.
Vertical Open Tank													
Drum Liquid Level Switch	¾ NPT	30	221°F Max.	150	Open On Rise	32.94"	Buna N	1.25"	0.90"	Brass	32.00"	M4168-2	**2ZY50**
		30	221°F Max.	150	Selectable	32.94"	Buna N	1.25"	0.90"	Brass	32.00"	M4168-3	**2ZY51**
		30	302°F Max.	150	Close On Rise	2.94"	Stainless Steel	1.59"	0.90"	Stainless Steel	2.00"	M4169-1	**2ZY52**
		30	302°F Max.	150	Open On Rise	32.94"	Stainless Steel	1.59"	0.90"	Stainless Steel	32.00"	M4169-2	**2ZY53**
		30	302°F Max.	150	Selectable	32.94"	Stainless Steel	1.59"	0.90"	Stainless Steel	32.00"	M4169-3	**2ZY54**
Liquid Level Switch	—	30	221°F Max.	50	Open On Rise	4.06"	Buna N	1.00"	1.00"	Brass	4.06"	M3782	**11K183**
	⅛ NPT	15	221°F Max.	50	Open On Rise	1.85"	Polypropylene	0.63"	0.58"	Polypropylene	1.25"	M3326-NPT	**5DYC4**
		15	221°F Max.	50	Close On Rise	1.85"	Polypropylene	0.63"	0.58"	Polypropylene	1.25"	M3326-NPT-NO	**5DYC3**
		15	221°F Max.	100	Open On Rise	1.41"	Polypropylene	0.44"	0.78"	Stainless Steel	0.75"	M4035	**5DYC6**
		30	221°F Max.	15	Selectable	2.25"	Kynar	1.00"	1.00"	Kynar	1.63"	M9000	**2ZY35**
		30	221°F Max.	15	Selectable	2.25"	Kynar	1.00"	1.00"	Kynar	1.63"	MS9000	**2ZY45**
		30	221°F Max.	100	Selectable	2.25"	Polypropylene	1.00"	1.00"	Polypropylene	1.63"	M8000	**2A554**
		30	221°F Max.	100	Close On Rise	2.25"	Polypropylene	1.00"	1.00"	Polypropylene	1.63"	M8000-NO	**5DYC9**
		30	221°F Max.	100	Selectable	2.25"	Polypropylene	1.00"	1.00"	Polypropylene	1.63"	MS8000	**2ZY43** ‡
		30	221°F Max.	150	Selectable	2.25"	Buna N	1.00"	1.00"	PBT	1.63"	M7000	**4YM35**
		30	221°F Max.	150	Selectable	2.25"	Buna N	1.00"	1.00"	PBT	1.63"	MS7000	**2ZY42** ‡
		30	392°F Max.	300	Selectable	2.25"	Stainless Steel	1.19"	1.13"	Stainless Steel	1.63"	M5000	**4YM31**
	¼ NPT	60	221°F Max.	100	Selectable	3.38"	Polypropylene	2.00"	1.50"	Polypropylene	2.63"	M8800	**2A552**
		60	221°F Max.	100	Selectable	3.38"	Polypropylene	2.00"	1.50"	Polypropylene	2.63"	MS8800	**2ZY44**
		60	221°F Max.	150	Selectable	3.38"	Buna N	2.00"	1.25"	Brass	2.63"	M4300	**2A553**
		60	392°F Max.	200	Selectable	3.38"	Stainless Steel	2.00"	2.13"	Stainless Steel	2.63"	M5600	**2A551** †
		60	482°F Max.	200	Selectable	3.52"	Stainless Steel	2.10"	2.13"	Stainless Steel	2.63"	M5917	**2ZY27**
		60	482°F Max.	200	Selectable	3.38"	Stainless Steel	2.00"	2.13"	Stainless Steel	2.63"	MS5917	**2ZY41** ‡
		100	221°F Max.	100	Open On Rise	3.38"	Polypropylene	2.00"	1.50"	Polypropylene	3.38"	M8800-PR	**5DYD1**
		100	392°F Max.	500	Selectable	3.38"	Stainless Steel	2.00"	2.00"	Stainless Steel	2.63"	M5600-PR	**4YM33**
	⅜-16 UNC	15	221°F Max.	50	Open On Rise	1.85"	Polypropylene	0.63"	0.58"	Polypropylene	1.25"	M3326	**4YM29**
		15	221°F Max.	50	Close On Rise	1.85"	Polypropylene	0.63"	0.58"	Polypropylene	1.25"	M3326-NO	**4YM30**
		30	221°F Max.	100	Selectable	2.25"	Polypropylene	1.00"	1.00"	Polypropylene	1.63"	M8000B	**5DYC7**
	¾" PVC Pipe	30	140°F Max.	50	Open On Rise	1.99"	Polypropylene	0.75"	0.88"	PVC	1.55"	M8000-C	**2ZY91**
	2 NPT	60	221°F Max.	150	Selectable	12.00"	Buna N	2.00"	1.25"	Brass	10.50"	M4302-7807-1	**2ZY87**
		60	221°F Max.	150	Selectable	72.00"	Buna N	2.00"	1.25"	Brass	70.50"	M4302-7807-6	**2ZY88**
		60	392°F Max.	200	Selectable	12.00"	Stainless Steel	2.00"	2.13"	Stainless Steel	10.50"	M5602-7808-1	**2ZY89**
		60	392°F Max.	200	Selectable	72.00"	Stainless Steel	2.00"	2.13"	Stainless Steel	70.50"	M5602-7808-6	**2ZY90**
Multi-Level Liquid Level Switch	¼ NPT	30	221°F Max.	100	Open On Rise	7.50"	Polypropylene	1.00"	1.00"	Polypropylene	6.75"	M8085	**3VU46**
	½ NPT	60	392°F Max.	200	Open On Rise	8.25"	Stainless Steel	2.00"	2.13"	Stainless Steel	7.25"	M5605	**3AY51**
	2 NPT	60	221°F Max.	100	Selectable	Adjustable, Up to 46"	Polypropylene	2.00"	1.50"	Polypropylene	Adjustable	ML8888	**3VU49**
		60	221°F Max.	150	Selectable	Adjustable, Up to 46"	Buna N	2.00"	1.25"	Brass	Adjustable	ML4444	**3VU48**
		60	392°F Max.	200	Selectable	Adjustable, Up to 46"	Stainless Steel	2.00"	2.13"	Stainless Steel	Adjustable	ML5555	**3VU47**
Ultra Low Level Liquid Switch	⅛ NPT	30	221°F Max.	25	Open On Rise	2.25"	Polypropylene	1.16"	1.88"	Polypropylene	1.63"	M8000-ULL-NC	**2ZY74**
		30	221°F Max.	25	Close On Rise	2.25"	Polypropylene	1.16"	1.88"	Polypropylene	1.63"	M8000-ULL-NO	**2ZY75**
		30	221°F Max.	25	Open On Rise	2.25"	Polypropylene	1.16"	1.88"	Stainless Steel	1.63"	M8020-ULL-NC	**2ZY76**
		30	221°F Max.	25	Close On Rise	2.25"	Polypropylene	1.16"	1.88"	Stainless Steel	1.63"	M8020-ULL-NO	**2ZY77**
		30	221°F Max.	25	Close On Rise	2.25"	Buna N	1.16"	1.88"	PBT	1.63"	M7000-ULL-NO	**2ZY63**
		30	221°F Max.	25	Open On Rise	2.25"	Buna N	1.16"	1.88"	Stainless Steel	1.63"	M4400-ULL-NC	**2ZY60**
		30	221°F Max.	25	Close On Rise	2.25"	Buna N	1.16"	1.88"	Stainless Steel	1.63"	M4400-ULL-NO	**2ZY61**
		30	221°F Max.	25	Close On Rise	2.25"	Buna N	1.16"	1.88"	Brass	1.63"	M4500-ULL-NO	**2ZY65**
Vertical													
Industrial Continuous Level Transmitter	—	—	—	100	—	20.88"	Polypropylene	2"	1½"	316 Stainless Steel	18⅜"	C4651-12802	**54JJ30**

† Rated explosion-resistant. ‡ Includes slosh shield.


No. 11K185


No. 11K187


No. 2ZY80

Madison
Sensing Solutions since 1959

Tethered-Mount Liquid Level Switches

Switches are designed to provide inexpensive, efficient, reliable level detection in large open vessels, water tanks, reservoirs, sumps, and ponds. A microswitch inside a molded polypropylene float detects fluid level change and generates a Start/Stop, Open/Close, or alarm actuation signal. Paddle-shape No. 2ZY80, oval-shape No. 11K185, and bulb-shape Nos. 11K187 and 11K188 have a contact rating of 16A at 250V. 6½-ft. cable, except No. 11K188 cable is 32½ ft. long.

VA Rating	Max. Liquid Temp.	Max. Pressure (psi)	Float Switch Contact Form	Overall Length (in.)	Float Material	Float Length (in.)	Float Dia. (in.)	Mfr. Model	Item No.
8A	158°F	14.7	SPDT	5.63	Polypropylene	5.63	—	M4546	**11K185**
8A	158°F	14.7	SPDT	6.5	Polypropylene	6.50	4	M4548	**11K187**
16A	—	14.7	SPDT	5.95	Polypropylene	5.95	—	M4189	**2ZY80**
16A	158°F	14.7	SPDT	6.5	Polypropylene	6	4	M4549	**11K188**

Side-Mount Liquid Level Switches

Madison
Sensing Solutions since 1959

These encapsulated, dry contact reed switches can deliver more than 5 million switching cycles at rated electrical loads, and are suitable for controlling relays, PLC's, or other low power devices. You can set switches for High or Low alarm points, or Pump Up to Pump Down operation when mounted into the side of a vessel or tank. Also can be mounted outside of a vessel or tank using an NPT coupling, or from the inside using a bulkhead fitting (UNC/UNF) and gasket. Models with dual NPT threads are indicated in the table with the mounting thread first (outside mount). Most switches can be set Normally Open or Normally Closed by rotating them 180°.

Tank Connection Size	VA Rating	Operating Temp. Range	Max. Pressure	Switch Function	Overall Length	Float Material	Float Length	Float Dia.	Stem Material	Stem Length	Mfr. Model	Item No.
⅛" NPT	30	392°F Max.	50 psi	Close On Rise	5.12"	Stainless Steel	1.00"	1.54"	Stainless Steel	2.74"	M3827-3NO	**2ZY23**
⅛" NPT	30	392°F Max.	50 psi	Open On Rise	5.12"	Stainless Steel	1.00"	1.54"	Stainless Steel	3.50"	M3827-3	**2ZY22**
¼" x ½" NPT	30	221°F Max.	100 psi	Selectable	3.70"	Polypropylene	1.75"	1.00"	Polypropylene	2.75"	M8710	**2ZY34**
¼" x ½" NPT	30	392°F Max.	300 psi	Selectable	4.60"	Stainless Steel	2.00"	0.63"	Stainless Steel	4.60"	M5910	**2ZY26** †
⅜-16 UNC	15	221°F Max.	50 psi	Selectable	1.85"	Polypropylene	0.63"	0.58"	Polypropylene	1.24"	M3326-SM	**11K182**
⅜-24 UNF	30	221°F Max.	100 psi	Selectable	2.96"	Polypropylene	1.00"	1.00"	Stainless Steel	2.96"	MS8010	**5DYD2**
⅜-24 UNF	30	221°F Max.	150 psi	Selectable	2.96"	Buna N	1.00"	1.00"	Brass	2.96"	M4010	**2ZY24**
⅜-24 UNF	30	392°F Max.	300 psi	Selectable	2.96"	Stainless Steel	1.19"	1.13"	Stainless Steel	2.96"	MS5010	**2ZY40** ‡
⅜-24 UNF	30	392°F Max.	300 psi	Selectable	2.96"	Stainless Steel	1.19"	1.13"	Stainless Steel	2.96"	M5010	**4YM32**
½" NPT	30	221°F Max.	100 psi	Selectable	2.75"	Polypropylene	1.75"	1.00"	Polypropylene	2.75"	M8750	**5DYC2**
½" NPT	30	266°F Max.	100 psi	Selectable	2.75"	PBT	2.11"	0.65"	PBT	2.75"	M7750	**2ZY31**
½" NPT	30	266°F Max.	100 psi	Selectable	2.75"	PBT	2.11"	0.65"	PBT	2.75"	M7725	**2ZY29** *
½" NPT	30	392°F Max.	50 psi	Close On Rise	5.12"	Stainless Steel	1.00"	1.54"	Stainless Steel	2.74"	M3827-2NO	**2ZY21**
½" NPT	30	392°F Max.	50 psi	Open On Rise	5.12"	Stainless Steel	1.00"	1.54"	Stainless Steel	3.50"	M3827-2	**2ZY20**
½" x ¼" NPT	30	392°F Max.	300 psi	Selectable	5.00"	Stainless Steel	0.75"	0.65"	Stainless Steel	5.00"	M3727	**5DYC8**
½" x ½" MNPT	30	221°F Max.	100 psi	Selectable	2.75"	Polypropylene	2.11"	0.65"	Polypropylene	2.75"	M8700	**2XC13**
½" x ½" NPT	30	266°F Max.	100 psi	Selectable	2.75"	PBT	2.11"	0.65"	PBT	2.75"	M7700	**4YM36**
½" x ½" NPT	30	221°F Max.	100 psi	Selectable	2.75"	Kynar	2.11"	0.65"	Kynar	2.75"	M9700	**2ZY36**
½" x ½" NPT	30	392°F Max.	300 psi	Selectable	4.60"	Stainless Steel	0.75"	0.13"	Stainless Steel	4.60"	M5920	**4YM34** †
½" x ¾" NPT	30	221°F Max.	100 psi	Selectable	2.25"	Polypropylene	2.06"	0.50"	Polypropylene	2.25"	M8700-C	**2ZY93**
½" x 1" NPT	30	221°F Max.	100 psi	Selectable	4.00"	Kynar	2.11"	0.65"	Kynar	2.84"	M9705	**2ZY37**
½" x 1" NPT	30	221°F Max.	100 psi	Selectable	4.00"	Polypropylene	1.75"	1.00"	Polypropylene	2.96"	M8705	**2ZY33** ‡
½" x 1" NPT	30	392°F Max.	300 psi	Selectable	4.60"	Stainless Steel	2.00"	0.63"	Stainless Steel	4.60"	M5900	**2ZY25** †
½-13 UNC	30	392°F Max.	100 psi	Selectable	3.19"	Stainless Steel	1.00"	1.00"	Stainless Steel	3.19"	M5970	**2ZY28**
⅝-11 UNC	30	221°F Max.	100 psi	Selectable	4.02"	Polypropylene	1.75"	1.00"	Polypropylene	2.96"	M8790	**4YM37**
⅝-11 UNC	30	221°F Max.	100 psi	Selectable	4.02"	Polypropylene	1.75"	1.00"	Polypropylene	3.31"	M8790-14/4184	**2ZY83**
⅝-11 UNC	30	266°F Max.	100 psi	Selectable	4.02"	PBT	2.11"	0.65"	PBT	2.96"	M7790	**2ZY32**
1" NPT	100	221°F Max.	100 psi	Selectable	4.43"	Buna N	3.00"	0.92"	Buna N	4.43"	M4190-BU	**2ZY86**
1" NPT	100	302°F Max.	150 psi	Selectable	5.81"	Stainless Steel	4.00"	1.00"	Stainless Steel	5.81"	M4190	**2ZY84**
1" NPT	100	302°F Max.	900 psi	Selectable	3.98"	Stainless Steel	2.04"	2.04"	Stainless Steel	3.98"	M4190-HP	**2ZY85**
1½" NPT	200	257°F Max.	100 psi	Selectable	5.50"	Stainless Steel	3.00"	1.50"	Stainless Steel	5.50"	M4065	**2ZY92**
—	60	221°F Max.	100 psi	Selectable	3.89"	Polypropylene	2.00"	1.50"	Polypropylene	2.50"	MSB8800	**2ZY48** **

** ¼" spade connector. † Rated explosion-resistant. ‡ Includes slosh shield. **Vertical open tank mounting.*


No. 2ZY20


No. 2XC13


No. 4YM34


No. 4YM37


No. 2ZY32



Leak Detection and Alarm/Shutoff Systems

Madison
Sensing Solutions since 1959

- Temp. range: 14° to 112°F

Initiate an audio alarm and automatically shut off water flow when leak is detected, except Nos. 11K230 to 11K232 have an audio alarm only. Excellent for dwellings that may be unoccupied for days or weeks. 120VAC, except No. 11K230 is 9VDC. All have a 12-ft. power cord and an 8-ft. sensor cord.

No. 11K221 is for use with water tanks and water heater tanks. Nos. 11K230 and 11K231 are for use with beakers, dishwashers, frozen pipes, leaky drains, sinks, sump pumps, and tabletop containers.

Item	Pipe Size - Valves	Max. Pressure	No. of Sensors	Mfr. Model	Item No.
Water Heater Leak Detection and Alarm Shutoff System	¾"	80 psi	1	RS-094-3/4	**11K221**
Detection and Alarm Shutoff System	½" x ¾"	80 psi	1	RS-090-E	**490W99**
Condensate Pan Overflow Audible Alarm System	—	—	1	RS-097	**11K232**
Battery Operated Audible Water Alarm System	—	—	1	RS-095	**11K230**
Audible Water Alarm with Security System Tie In	—	—	1	RS-096	**11K231**

FLOWLINE

Level Controllers


No. 12U422

- Temp. range: -40° to 149°F, except No. 12U422 is -40° to 158°F

Use with an ultrasonic or pressure level transmitter to provide the liquid level in a tank or sump container. Can provide local relay control, or transmit output signal to another device or controller. Easy-to-read display is simple to configure with push-button display module. Nonvolatile memory. LED display. ⅛ DIN panel mount, except No. 12U422 is 35mm DIN rail. Polycarbonate enclosure, except No. 12U422 is polypropylene. NEMA 4X (IP65) rated faceplate, except No. 12U422. Models include 4-20mA repeater, except No. 12U424.

No. of Digits	Source Voltage	Input	Contact Type	Relays	Std.	Mfr. Model	Item No.
4	120/240 VAC Field Selectable	—	SPDT	2	CE	LC52-1001	**12U422**
6	85 to 265VAC	115VAC	—	0	CE, UL, cUL	LI55-1001	**12U424**
	85 to 265VAC	115VAC	SPDT	2	CE, UL, cUL	LI55-1211	**12U425**
	85 to 265VAC	115VAC	SPDT	4	CE, UL, cUL	LI55-1411	**12U426**

MOTOR & PUMP UPGRADE Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient motor and pump retrofit projects.

> Visit **grainger.com/energyservices**



No. 36Y075



No. 36Y076



No. 36Y077

+GF+
Flow Transmitters

- Power input: 12 to 24VDC, regulated

Convert flow sensor signal into a 4-20mA signal for long-distance transmission. Great for flow control and monitoring, filtration or softener regeneration, and feed pump pulsing. RoHS compliant.

Description	Flow Range	Power Req.	Output Type	Mfr. Model	Item No.
Field-Mount	0 to 99999 gpm	12-32VDC	4/20mA	3-9900-1	**36Y074**
Panel-Mount				3-9900-1P	**36Y075**

Description	For Use With	Mfr. Model	Item No.
Angle Adapter	Mfr. No. 39900-1P	3-9900.396	**36Y078**
Battery Module Assembly		3-9900.393	**36Y076**
Mounting Kit		3-8050.	**36Y077**



No. 5NFK7



No. 5MXR7



No. 5MXR8

+GF+
Battery-Powered Flow Totalizers

Digital display indicates flow rate and totalized flow volume simultaneously. Include 1 sensor input. Great for water treatment systems, filtration systems, and process flow monitoring. Nos. 5NFK7 and 5NFK8 feature display, adapter, and flow sensor. Nos. 5MXR7 and 5MXR8 are display-only units. No. 5MXR7 is field mounted; No. 5MXR8 is panel mounted.

Connec. Size	Flow Range	Power Req.	Mfr. Model	Item No.
½" to 4"	0.95 to 793 gpm	2 AA Size 3.6V Lithium Thionyl Chloride Batteries	3-8150-P0	**5NFK7**
½" to 8"	0 to 3000 gpm	3.6V Battery, AA (2)	3-8150-1	**5MXR7**
½" to 8"	0 to 3000 gpm	3.6V Battery, AA (2)	3-8150-1P	**5MXR8**
5" to 8"	62 to 3100 gpm	2 AA Size 3.6V Lithium Thionyl Chloride Batteries	3-8150-P1	**5NFK8**



No. 5MXP5



No. 33Z920

Flow Sensors

+GF+

Nos. 5MXP5 and 5MXP6 have the widest range of flow rate and volume measurement in plastic pipes, from 1 gpm in ½" pipe to 3,100 gpm in 8" pipe. Open-cell rotor construction ensures linear, repeatable output up to 20 fps, with linearity of ±1% of full scale. 25-ft. cable is standard; transmits up to 200 ft. without amplification. Rated for 220°F at 25 psi, 70°F at 200 psi.

Nos. 5MXP7 and 5MXP8 are great for low-flow or high electronic noise applications. Insertion-type paddlewheel sensor generates an open-collector (Hall effect) pulse output proportional to flow rate as low as 0.3 fps. Designed for systems ranging in size from ½" to 8", with max. velocity of 20 fps. Feature ±1% full-range linearity and ±0.5% repeatability.

Paddlewheel Repair Kits Nos. 33Z920 and 33Z921 include paddlewheel rotor, pin, and 2 O-rings.

Description	For Pipe Size	Flow Range	Std.	Mfr. Model	Item No.
Paddlewheel	2"	0.95 to 793 gpm		P51530-P0	**5MXP5**
		0.28 to 793 gpm	CE, UL,	3-2536-P0	**5MXP7**
		62 to 1247 gpm	CUL, ROHS	P51530-P1	**5MXP6**
	5 to 8"	18 to 3118 gpm		3-2536-P1	**5MXP8**

Description	Type	Mfr. Model	Item No.
Paddlewheel Repair Kit	Red Cap	P51550-4	**33Z920**
	Blue Cap	3-2536.321-1	**33Z921**

Description	Max. Pressure	Mfr. Model	Item No.
Electronic Flowmeter	180 psi @ 68°F	P31536	**5MXP9**



Insertion Tee
No. 5MXT3

Clamp On Saddle
No. 5MXU2

+GF+
Insertion Tees and 2-Pc. Clamp On Saddles

- Max. temp.: 140°F
- Schedule 80
- PVC construction

Insertion Tees feature a slip connection. Clamp On Saddles are 2-pc. and have a max. pressure of 180 psi and EPDM gasket material.

Pipe Size - Pipe Fitting	Fitting Length	Item No.
Insertion Tee		
½"	14"	**5MXT3**
¾"	14"	**5MXT4**
1"	17"	**5MXT5**
1½"	24"	**5MXT7**
2"	24"	**5MXT8**
3"	24"	**5MXU0**

Pipe Size - Pipe Fitting	Fitting Length	Item No.
Clamp On Saddles		
2"	4"	**5MXU2**
3"	5"	**5MXU4**
4"	5"	**5MXU5**
6"	5"	**5MXU6**
8"	5"	**5MXU7**

FLOWLINE

EchoPod® Ultrasonic Level Sensors

- Max. pressure: 30 psi
- Temp. range: 20° to 140°F

Sensors measure liquid height in a specified range, then transfer data to an external device such as a controller, indicator, PLC, or telemetry device. Great for inventory control or process monitoring. Easy to configure—without the need for an input card—using free WebCal software and included USB key fob. Narrow 2" or 3" mounting band allows use in tight spaces. Input: 24VDC (loop), except 12-24VDC/AC for No. 12U418 and 12-28VDC for 12U419. Type 6P enclosure. Corrosion-resistant PVDF (polyvinylidene fluoride) material with Viton® gasket and polycarbonate enclosure. FM Approved for U.S. and Canada. CE Certified. RoHS compliant.



No. 12U415

Mounting	Range	Accuracy	Res.	Dead Band	Beam Width	Output	Mfr. Model	Item No.
1" NPT	49.2"	0.125"	0.019"	2"	2"	4 to 20mA, 2-Wire	DL10-01	**12U414**
	49.2"	0.125"	0.019"	2"	2"	4 to 20mA and (4) SPST Relays	DL14-01	**12U415**
	9.8 ft.	±0.2% of Range	0.039"	4"	2"	4 to 20mA and (4) SPST Relays	DL24-01	**12U416**
	49.2"	0.125"	0.019"	2"	2"	(4) SPST Relays	DS14-01	**12U418**
	49.2"	0.125"	0.019"	2"	2"	0 to 5V, 0 to 10V or 976 to 2000Hz	DX10-01	**12U419**
2" NPT	18 ft.	±0.2% of Range	0.079"	8"	3"	4 to 20mA and (4) SPST Relays	DL34-01	**12U417**

FLOWLINE

Multipoint Ultrasonic Level Switches

- Max. pressure: 30 psi
- Temp. range: -4° to 140°F
- Output: 4-20mA, 1 SPDT relay, 2 SPST (NO) relays

EchoSwitch® general-purpose sensors provide continuous noncontact level detection up to 26.2 ft. (8m), with 3 programmable relays for level switch or control functions and 4-20mA signal output. The sensor is programmed by an integrated push-button display module. Each relay can be configured on a single set point (high or low level alarm) or latched on 2 set points for automatic fill/empty in simplex (1 pump or valve), duplex (2 pumps), or triplex (3 pumps) level control modes with selectable time delay and fail-safe logic. Embedded level controller can reduce costs by replacing external control hardware. Noncontact sensor is excellent for corrosive, sticky, or dirty liquids, and is broadly selected for pump lift station, sump, and dry tank level applications. CE Certified. RoHS compliant.


No. 12U441


No. 12U446



No. 12U443

Mounting	Range	Input Voltage	Accuracy	Res.	Dead Band	Beam Width	Mfr. Model	Item No.
1" NPT	9.8 ft.	12-28 VDC	±0.2% of Range	0.019"	4"	2"	LU80-5101	12U448
	9.8 ft.	95-250 VAC	—	—	4"	2"	LU77-5004	12U441
2" NPT	18 ft.	12-28 VDC	±0.2% of Range	0.039"	8"	3"	LU81-5101	12U446
	18 ft.	95-250 VAC	—	—	8"	3"	LU74-5004	12U442
	26.2 ft	12-28 VDC	±0.2% of Range	0.039"	8"	3"	LU83-5101	12U447
	26.2 ft	95-250 VAC	—	—	8"	3"	LU78-5004	12U443

EchoSonic® Ultrasonic Level Sensors

FLOWLINE

- Max. pressure: 30 psi
- Temp. range: -4° to 140°F
- Output: 4-20mA, 2-wire

Automatic adaptive signal filters allow plug-and-play operation with optimized obstacle recognition and output signal filtering. General-purpose sensors have a corrosion-resistant polyvinylidene fluoride (PVDF) transducer with Viton® gasket and NEMA 4x polycarbonate enclosure—good for corrosive, ultrapure, sticky, or dirty liquids. Included USB key fob simplifies configuration using free WebCal software. Automatic temperature compensation. FM Approved for U.S. and Canada. CE Certified. RoHS compliant.


No. 12U437

Mounting	Range	Input Voltage	Accuracy	Res.	Dead Band	Beam Width	Mfr. Model	Item No.
1" NPT	9.8 ft.	24 VDC (loop)	±0.2% of Range	0.019"	4"	2"	LU27-01	12U437
2" NPT	18 ft.			0.039"	8"	3"	LU23-01	12U438
	26.2 ft			0.079"	8"	3"	LU28-01	12U439
	32.8'			0.079"	8"	3"	LU29-01	12U440

FLOWLINE

Point Level Sensors

- Max. pressure: 150 psi at 77°F (25°C)
- Temp. range: -40° to 176°F (-40° to 80°C)
- Accuracy: ±1mm in water

Use in applications where single or multiple alarm activation points are required, such as in low-level reorder or high-level alarm. Sensors can detect dry or liquid at specific points inside a tank and signal an alarm or control a pump or valve. Compatible with controllers, devices, or PLCs that accept dry contact input. ¾" NPT. No. 12U435 has a failsafe feature that alerts when unit requires maintenance or replacement. Nos. 12U432 and 12U433 are rated intrinsically safe. Contact is SPST relay, except No. 12U434 is SPDT reed. Universal mounting for installation through top, side, or bottom of tank. Thermoplastic construction resists corrosion. Include 10-ft. cable.


No. 12U430

Item	Repeatability	Material	Input Voltage	Contact Rating	Output	Std.	Mfr. Model	Item No.
Optic Leak Detector	±0.5mm in Water	Polypropylene	12-36 VDC	60VA, 1A max.	4 or 20 mA or relay	CE	LO10-1305	12U430
Ultrasonic Level Switch	±0.5mm in Water	Polypropylene	12-32 VDC	60VA, 1A max.	4 or 20 mA or relay	CE, CSA	LU10-1405	12U432
Ultrasonic Level Switch	±0.5mm in Water	PFA	12-32 VDC	60VA, 1A max.	4 or 20 mA or relay	CE, CSA	LU10-2405	12U433
Vertical Buoyancy Switch	±1mm in Water	Polypropylene	120VAC/VDC	15 VA, 0.25A Max.	Reed	CE	LV10-1301	12U434
Vibration Level Switch	±0.5mm in Water	Ryton	12-36 VDC	60VA, 1A max.	4 or 20 mA or relay	CE	LZ12-1405	12U435
Capacitance Level Switch	±0.5mm in Water	Polypropylene	12-36 VDC	60VA, 1A max.	4 or 20 mA or relay	CE	LP15-1405	12U436

FLOWLINE

Level Indicator

General-purpose indicator requires no programming and can repeat the measured value, display the relay status, and the set point configuration of the attached sensor. Model features 6-digit LCD with 4 relay indicators and a panel mount enclosure. NEMA 4 (IP65) faceplate.



Type	No. of Digits	Source Voltage	Temp. Range	Relays	Encl. Material	Mfr. Model	Item No.
Local Display	6	24VDC	-4° to 140°F	4	Polycarbonate	LI40-1001	49K028

FLOMEC™ Dayton

Flowmeters/Totalizers


No. 4TJT2


No. 6XGN9


No. 32ZN69


No. 36WJ95


No. 1YEF8

DIGITAL WATER METERS

- Battery included; order replacement No. 1YEC4 on page 2683.

Display 2 totals (cumulative and batch) and rate of flow; press display button to toggle between readings. Register up to 999,999 x 100. Nos. 4TJR4 to 4TJR8 have slip-on spigot connections that fit Schedule 40 pipe and Schedule 80 fittings.

ELECTRONIC METER

- 2 AAA batteries included

For use with urea, AdBlue®, DEF, windshield fluids, water, and water-based media. Not for use with fuel and oils. Features resettable batch total and nonreset-table batch totalizer.

LUBE METER

- Batteries included

Compact, positive-displace-ment meters are designed for engine oils or transmis-sion fluids. Measure batch, reset total, and nonreset total. Oval gear rotors.

FUEL AND WATER METERS

- Mount horizontally or vertically in-line
- 2 AAA batteries included

Provide low-flow measure-ments with a resettable 4-digit electronic display.

Housing Material*	Connec. Size	Connec. Type	Flow Range	Display Units	Accuracy (%)	Max. Pressure	Fluid Temp. Range	Wetted Materials*	Brand	Mfr. Model	Item No.
Digital Water Meters, Magnetic Sensor, Max. Viscosity: 530 SSU											
PVC	½"	Spigot	1 to 10 gpm	gal./L	±3.0	225 psi	32° to 140°F	316 SS, Ceramic, Tungsten Carbide, PVC, PVDF	Great Plains Industries	TM050	**4TJR4**
	¾"	Slip (Male)	2 to 20 gpm	gal./L	±3.0	225 psi	32° to 140°F	316 SS, Ceramic, PVC, PVDF, Tungsten Carbide	Great Plains Industries	TM075	**4TJR5**
	1"	Slip (Male)	5 to 50 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM100	**4TJR6**
	1½"	Slip (Male)	10 to 100 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM150	**4TJR7**
	2"	Slip (Male)	20 to 200 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM200	**4TJR8**
	½"	FNPT	1 to 10 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM050-N	**4TJR9**
	¾"	FNPT	2 to 20 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM075-N	**4TJT1**
	1"	FNPT	5 to 50 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM100-N	**4TJT2**
	1½"	FNPT	10 to 100 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM150-N	**4TJT3**
	2"	FNPT	20 to 200 gpm	gal./L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM200-N	**4TJT4**
	3"	Spigot	40 to 400 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM300	**6XGN4**
	3"	FNPT	40 to 400 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F	Acetal, Ferrite, PVC, PEEK, SS	Great Plains Industries	TM300-N	**6XGN5**
	3"	150 lb. Flange	40 to 400 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM300-F	**6XGN6**
	4"	Spigot	60 to 600 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F		Great Plains Industries	TM400	**6XGN7**
	4"	FNPT	60 to 600 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F	Florocarbon	Great Plains Industries	TM400-N	**6XGN8**
	4"	150 lb. Flange	60 to 600 gpm	gal., cu. ft., cu. M, L	±3.0	225 psi	32° to 140°F	Acetal, Ferrite, PVC, PEEK, SS	Great Plains Industries	TM400-F	**6XGN9**
Electronic Meter, Max. Viscosity: 40 SSU											
Nylon	1"	FNPT	1.3 to 32 gpm	gal.,L, pt., qt.	±1.0	145 psi	14° to 122°F	Nylon, SS	Dayton	32ZN69	**32ZN69**
Lube Meter, Max. Viscosity: 1000cP											
Aluminum	½"	FNPT	0.26 to 7.8 gpm	gal., L, pt., qt.	±0.5	1500 psi	23° to 131°F	Alnico, Aluminum, Buna, LCP, SS	Great Plains Industries	LM51DN	**36WJ95**
Fuel Meters, Max. Viscosity: 40 SSU											
Aluminum	1"	FNPT	3 to 30 gpm	gal.	±5	300 psi	14° to 130°F	316 SS, Aluminum, Ceramic, Nylon, Tungsten Carbide	Great Plains Industries	01A31GM	**1YEF6**
	1"	FNPT	10 to 100 lpm	L	±5	300 psi	14° to 130°F		Great Plains Industries	01A31LM	**1YEF7**
Water Meters, Max. Viscosity: 40 SSU											
Nylon	1"	FNPT	3 to 30 gpm	gal.	±5	150 psi	14° to 130°F	316 SS, Ceramic, Nylon, Tungsten Carbide	Great Plains Industries	113255-4	**1YEF8**
	1"	FNPT	10 to 100 lpm	L	±5	150 psi	14° to 130°F		Great Plains Industries	113255-5	**1YEF9**

**** 316 SS = 316 stainless steel, LCP = liquid crystal polymer, PEEK = polyether ether ketone, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, SS = stainless steel.***


No. 20YC13


No. 20YC27


No. 20YC37

FLOMEC™

Oval Gear Flowmeters

- FNPT connections, except Nos. 20YC27 and 20YC28 are flanged
- Nos. 20YC14 and 20YC34 provide 4-20 mA output

Rotating-gear design offers accurate low-flow readings of viscous liquids, water, oil, and chemicals. The 8 digit to 3 decimal point display can provide batch total (resettable), accumulative (non-resettable), and rate of flow. Also can provide a pulse output or a 4–20 mA signal so meter can communicate with batch controllers, data loggers, and PLC's. Display is NEMA 4.

Housing Material*	Power Req.	Connec. Size	Flow Range	Accuracy (%)	Max. Pressure	Fluid Temp. Range	Wetted Materials*	Mfr. Model	Item No.
Electronic Flowmeters, Reed Switch and Hall Effect Sensor, Max. Viscosity: 4600 SSU									
316L SS	3.6V Battery (Incl.)	⅛"	0.13 to 9.5 gph	0.5	495 psi	5° to 140°F	316 SS, C, PTFE	OM004S513-826R7G	**20YC13**
	Loop Powered	⅛"	0.13 to 9.5 gph	0.5	495 psi	5° to 140°F	316 SS, C, PTFE	OM004S513-820G6	**20YC14**
	3.6V Battery (Incl.)	¼"	0.5 to 27 gph	0.5	495 psi	5° to 140°F	316 SS, C, PTFE	OM006S513-820G5	**20YC15**
	3.6V Battery (Incl.)	⅜"	4 to 145 gph	0.5	495 psi	5° to 140°F	316 SS, C, PTFE	OM008S513-826R7G	**20YC16**
	3.6V Battery (Incl.)	½"	0.26 to 10.6 gpm	0.5	990 psi	5° to 140°F	316 SS, PPS, PTFE	OM015S003-826R7G	**20YC17**
	3.6V Battery (Incl.)	1"	2.6 to 40 gpm	0.5	580 psi	-4° to 250°F	316 SS, PPS, PTFE	OM025S003-826R7G	**20YC18**
	3.6V Battery (Incl.)	1½"	4 to 66 gpm	0.5	435 psi	-4° to 250°F	316 SS, PPS, PTFE	OM040S003-826R7G	**20YC19**
PPS	3.6V Battery (Incl.)	1"	2.6 to 40 gpm	0.5	73 psi	-4° to 250°F	PPS, PTFE	OM025P003-820G5	**20YC20**
AL	3.6V Battery (Incl.)	⅛"	0.13 to 9.5 gph	0.5	220 psi	-4° to 250°F	316 SS, AL, C, Viton	OM004A511-826R7G	**20YC21**
	3.6V Battery (Incl.)	¼"	0.5 to 27 gph	0.5	220 psi	-4° to 250°F	316 SS, AL, C, Viton	OM006A511-820G5	**20YC22**
	3.6V Battery (Incl.)	½"	0.26 to 10.6 gpm	0.5	580 psi	-4° to 250°F	AL, PPS, Viton	OM015A001-826R7G	**20YC23**
	3.6V Battery (Incl.)	1"	2.6 to 40 gpm	0.5	580 psi	-4° to 250°F	AL, PPS, Viton	OM025A001-822G5	**20YC24**
	3.6V Battery (Incl.)	1½"	4 to 66 gpm	0.5	435 psi	-4° to 250°F	AL, PPS, Viton	OM040A001-822G5	**20YC26**
	3.6V Battery (Incl.)	2"	8 to 120 gpm	0.5	285 psi	-4° to 250°F	AL, PPS, Viton	OM050A001-846R7G	**20YC27**
316L SS	3.6V Battery (Incl.)	2"	8 to 120 gpm	0.5	285 psi	-4° to 250°F	316 SS, PPS, PTFE	OM050S003-842G5	**20YC28**
	Hall Effect 5/24VDC	⅛"	0.13 to 9.5 gph	0.5	495 psi	-4° to 250°F	316 SS, C, PTFE	OM004S513-222	**20YC29**
	Hall Effect 5/24VDC	¼"	0.5 to 27 gph	0.5	495 psi	-4° to 250°F	316 SS, C, PTFE	OM006S513-222	**20YC30**
	Hall Effect 5/24VDC	⅜"	4 to 145 gph	0.5	495 psi	-4° to 250°F	316 SS, C, PTFE	OM008S513-222	**20YC31**
AL	Hall Effect 5/24VDC	½"	0.26 to 10.6 gpm	0.5	990 psi	-4° to 250°F	316 SS, AL, C, Viton	OM015A511-222	**20YC32**
316L SS	3.6V Battery (Incl.)	½"	0.26 to 10.6 gpm	0.5	990 psi	-4° to 250°F	316 SS, C, PTFE	OM015S513-822G5	**20YC33**
	3.6V Battery (Incl.)	½"	0.26 to 10.6 gpm	0.5	990 psi	-4° to 250°F	316 SS, C, PTFE	OM015S513-822G6	**20YC34**
AL	3.6V Battery (Incl.)	1"	2.6 to 40 gpm	0.5	990 psi	-4° to 250°F	316 SS, AL, C, PTFE	OM025A513-822G5	**20YC36**
Mechanical Flowmeter, Max. Viscosity: 44.0 SSU									
AL	—	1"	2 to 40 gpm	±0.25	50 psi	-40° to 125°F	Acetal, AL, Buna N, Neodymium, PPS, SS	139121-06	**407L04**
Mechanical Flowmeter, Max. Viscosity: 4600 SSU									
AL	—	1"	2.6 to 40 gpm	1	580 psi	-4° to 250°F	AL, PPS, Viton	OM025A001-820M4	**20YC37**

**** 316 SS = 316 stainless steel, AL = aluminum, C = carbon, PPS = polyphenylene sulfide, PTFE = polytetrafluorethylene.***

Turbine Flowmeters/Totalizers and Accessories

FLOMEC GREAT PLAINS INDUSTRIES GPI

- FNPT connections

Self-contained units can be field serviced. Select PVDF housing for water and chemicals; aluminum for petroleum products; brass for water; and 316 stainless steel for water, petroleum products, and corrosive chemicals. For extended selection, go to Grainger.com®.

TURBINE FLOWMETERS/TOTALIZERS

Display 2 totals (cumulative and batch) and rate of flow; press display button to toggle between readings. Register up to 999,999 x 100. Read in gallons and liters. Run approximately 5 yr. on 2 lithium batteries (included).

ACCESSORIES

Display Adapter Kit— Permits horizontal reading of vertical meters.

Remote Kit Assembly— Allows remote monitoring or meter readout for high-temperature and specialized applications.

Pulse Access Module— Provides a pulse output from the meter to interface with other compatible equipment.

External Power Module— Use with Pulse Access Module No. 1YEB9 to provide meters with an external 7 to 30VDC power source.

Transmitter, 4-20mA—Transmits industry standard analog signal from meter to interface.

Battery Kit—Includes 2 batteries.



No. 1XPR8



No. 1XPT6

Housing Material*	Power Req.	Connec. Size	Flow Range	Accuracy (%)	Max. Pressure	Fluid Temp. Range	Wetted Materials*	Mfr. Model	Brand	Item No.
Turbine Electronic Flowmeters, Magnetic Sensor, Max. Viscosity: 530 SUS										
AL	2 Lithium Batteries	½ in	1 to 10 gpm	±1.5	300 psi	0° to 140°F	316 SS, AL, CER, PVDF, WC	G2A05N09GMA	Flomec	1YEA2
AL		¾ in	2 to 20 gpm	+/-1	300 psi			G2A07N09GMA	Flomec	1YEA3
AL		1 in	5 to 50 gpm	+/-1	300 psi			G2A10N09GMA	Flomec	1YEA4
AL		1 ½ in	10 to 100 gpm	±0.75	300 psi			G2A15N09GMB	Flomec	1YEA5
AL		2 in	20 to 200 gpm	±0.75	300 psi			G2A20N09GMB	Flomec	1YEA6
BR		½ in	1 to 10 gpm	±1.5	300 psi		316 SS, Brass, CER, PVDF, WC	G2B05N09GMA	Flomec	1YEA7
BR		¾ in	2 to 20 gpm	+/-1	300 psi			G2B07N09GMA	Flomec	1YEA8
BR		1 in	5 to 50 gpm	+/-1	300 psi			G2B10N09GMA	Flomec	1YEA9
BR		1 ½ in	10 to 100 gpm	±0.75	300 psi			G2B15N09GMB	Flomec	1YEB1
BR		2 in	20 to 200 gpm	±0.75	300 psi			G2B20N09GMB	Flomec	1YEB2
PVDF		½ in	1.2 to 12 gpm	±1.5	100 psi		CER, Fluorocarbon, PVDF	G2P05N09GMA	Flomec	1YEB3
PVDF		1 in	5 to 50 gpm	+/-1	100 psi			G2P10N09GMA	Flomec	1YEB4
SS		½ in	1 to 10 gpm	±1.5	1,500 psi		316 SS, CER, PVDF, WC	G2S05N09GMA	Flomec	1XPR3
SS		¾ in	2 to 20 gpm	+/-1	1,500 psi			G2S07N09GMA	Flomec	1XPR8
SS		1 in	5 to 50 gpm	+/-1	1,500 psi			G2S10N09GMA	Flomec	1XPT6
SS		1 ½ in	10 to 100 gpm	±0.75	1,500 psi			G2S15N09GMB	Flomec	1XPW2
SS		2 in	20 to 200 gpm	±0.75	1,500 psi			G2S20N09GMB	Flomec	1YEA1
Turbine Electronic Flowmeters, Max. Viscosity: 530 SUS										
AL	—	1 in	0.3 to 3 gpm	±1.5	300 psi	14° to 140°F	316 SS, AL, CER, Ferrite, Nylon, WC	03A30GM	Flomec	13K554
AL		2 in	30 to 300 gpm	±1.5	300 psi			03A32GM	Flomec	13K556

Description	Mfr. Model	Item No.
Turbine Flowmeter Accessories, GREAT PLAINS INDUSTRIES		
Display Adapter Kit	125260-01	1YEB7
Remote Kit Assembly	113275-1	1YEB8
Pulse Access Module	125060-1	1YEB9

Description	Mfr. Model	Item No.
Turbine Flowmeter Accessories, GREAT PLAINS INDUSTRIES		
External Power Module	125070-1	1YEC1
Transmitter, 4-20 mA	125100-1	1YEC3
Battery Kit Power Source	113520-1	1YEC4 †

** 316 SS = 316 Stainless Steel, AL = Aluminum, BR = Brass, CER = Ceramic, PVDF = Polyvinylidine Difluoride, SS = Stainless Steel, WC = Tungsten Carbide. † Also for use with digital water meters.*

Gems Sensors & Controls

Flow Sensors, Monitors, and Indicators

TURBINE FLOW SENSORS, FT-110, FT-210, AND FT-330 SERIES

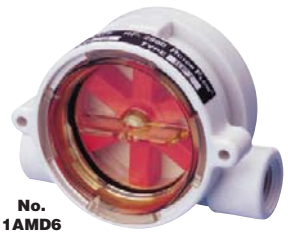
- Max. pressure: 200 psi
- Max. operating temp.: 212°F nylon, 176°F Noryl®
- 0.5% repeatability, except ±5% No. 1H256
- 24V max.
- 3-ft. cable
- Can replace dispensing timer systems

Compact, economical sensors for OEM applications that require low-flow liquid monitoring. These hall-effect turbine sensors provide accurate pulsed-output metering despite changes in system pressure caused by aging filters. Standard power and output specifications allow retrofitting to existing controllers. Max. viscosity: 32 to 81 SSU, except 32 to 70 SSU for FT-210 No. 1H256.

FT-330 Series—Designed for water and beverage dispensing applications.

- NSF 61 listed


No. 1ALZ1


No. 1AMD6


No. 1AMD9

FLOW RATE MONITORS, RFO SERIES

- Max. operating temp.: 180°F polypropylene case, 212°F brass case
- Compact panel-mount housing

High-visibility rotors and solid-state electronics provide visual confirmation of accurate flow rate pulsed output for water purification/dispensing systems and coolant systems. ¼" and ½" units include low-flow adapters for 0.1 to 1.0 and 1.5 to 12 gpm ranges, respectively. Max. viscosity: 200 SSU.

FLOW INDICATORS, RFI SERIES

- Max. operating temp.: 180°F polypropylene body, 212°F brass body
- Either port may be used for incoming flow

Bright orange rotor provides simple, direct visual flow confirmation on heat exchangers and plastic injection molding equipment. Remove bayonet mounting lens for quick cleanout. Low-flow adapter included. Max. viscosity: 200 SSU.

Connec. Size (in.)	Pulses per Gal.	Flow Range (gpm)	Operating Temp. Range (°F)	Accuracy (%)	CABLE Item No.	SPADE TERMINALS Item No.
Sensors, FT-110 Series, Nylon 12 Housing						
⅜ MNPT	26,100	0.13 to 1.3	212	±3	—	1ALZ1
	17,400	0.13 to 2.0			1ALZ8	1ALZ3
	12,500	0.26 to 2.7			1ALZ7	1ALZ2
	8300	0.26 to 4.0			1ALZ9	1ALZ4
	3800	0.26 to 6.6			1AMB1	1ALZ5
	26,200	0.13 to 1.3			1ALZ6	—
Sensors, FT-210 Series, Nylon 12 Housing						
¼ MNPT	83,200	0.026 to 0.65	-4°F to 212°F	±3	—	19H256
Sensors, FT-330 Series, Noryl Housing						
⅜ MNPT	4994	0.4 to 4.0	-4 to 176	±2	4ARL1	—
	10,313	0.2 to 2.0			4ARK9	—

Connec. Size	Max. Volts	Pulses per Gal.	Flow Range	Accuracy (%)	PP CASE AND FITTING, BUNA N O-RING‡ Item No.	BRASS CASE AND FITTING, VITON O-RINGS‡ Item No.
Monitors, RFO Series, Max. psi* 100PP, 200 Brass						
¼"	24	2200	0.5 to 5 gpm	±7	1AMB8	1AMD1
½"	24	610	4 to 20 gpm	±15	1AMB9 †	1AMD2 †
¾"	24	366	5 to 30 gpm	±10	—	1AMD3
1"	24	178	8 to 60 gpm	±15	—	1AMD4
Indicators, RFI Series, Max. psi* 100PP, 200 Brass						
¼"	—	—	0.5 to 5 gpm	—	1AMD5	1AMD7
½"	—	—	4 to 20 gpm	—	1AMD6	1AMD8
¾"	—	—	5 to 30 gpm	—	—	1AMD9
1"	—	—	8 to 60 gpm	—	—	1AME1

Item	For Use With	Item No.
Accessory		
DIN Connector With Cable and Pull-up Resistor	19H256	19H257

** Pressure limit stated for 70°F, and is lower at higher temperatures. † Accuracy is ±7% when using the low-flow adapter. ‡ See optional Rate Meter/Totalizer No. 1MEW7 on Grainger.com®.*


No. 29FJ90


No. 20CL49


No. 29FJ96

Engineered Polymer and Lead-Free Brass Flowmeters

Badger Meter

- Fluid temp. range: 32° to 80°F
- Max. pressure: 150 psi
- Accuracy: ±1.5%
- Mechanical dial display

Use to measure water flow in residential and commercial potable water systems, medical systems, desalinization equipment, and in water treatment and distribution systems.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Wetted Materials	Includes	Mfr. Model	Item No.
Disc Series Engineered Polymer Housing							
½"	⅝"	NPT	0.5 to 25 gpm	BZ, Polyethylene, Noryl, Nylon, SAN	Local Register	M25-750PNPB-RA-GAXX	**29FJ90**
Disc Series NSF 61 Low Lead Brass Housing							
½"	⅝"	NPT	0.5 to 25 gpm	BZ, Polyethylene, Noryl, Nylon, SAN	Local Register	M25-625LNPA-RA-GAXX	**29FJ91**
¾"	¾"	NPT	0.5 to 25 gpm	Thermal Plastic	Local Transmitter Register	M25-750LNPB-TS-GAXX	**20CL48**
	¾"	NPT	0.75 to 35 gpm	BZ, Polyethylene, Noryl, Nylon, SAN		M35-751LNPB-TS-GAXX	**20CL49**
	¾"	NPT	0.75 to 35 gpm		Local Register	M35-751LNPB-RA-GAXX	**29FJ92**
1"	1"	NPT	1.25 to 70 gpm	Bronze, Thermal Plastic, Stainless Steel, Nylon		M70-100LNPC-RA-GAXX	**29FJ93**
	1"	NPT	1.25 to 70 gpm		Local Transmitter Register	M70-100LNPC-TS-GAXX	**20CL50**
1½"	1½"	Flange	2.5 to 120 gpm	BZ, Polyethylene, Noryl, Nylon, SAN		M120-150LNSF-TS-GAXX	**20CL51**
	1½"	NPT	2.5 to 120 gpm		Local Register	M120-150LNSF-RA-GAXX	**29FJ94**
2"	2"	Flange	2.5 to 170 gpm		Local Transmitter Register	M170-200LNSG-TS-GAXX	**20CL52**
	2"	NPT	2.5 to 170 gpm		Local Register	M170-200LNSG-RA-GAXX	**29FJ95**
Turbo Series NSF 61 Low Lead Brass Housing							
3"	3"	Flange	5 to 550 gpm	Bronze, Thermal Plastic, Stainless Steel	Local Transmitter Register	RT-0300BRNPNSX-TS-GAXX	**29FJ96**
4"	4"	Flange	10 to 1250 gpm	Ceramic, Lead Free Alloy,		RT-0400BRNPNSX-TS-GAXX	**29FJ97**
6"	6"	Flange	20 to 2500 gpm	Passivated 316 Stainless Steel, Thermoplastic		RT-0600BRNPNSX-TS-GAXX	**29FJ98**
8"	8"	Flange	30 to 4500 gpm	Bronze, Thermal Plastic, Stainless Steel		RT-0800BRWPNSX-TS-GAXX	**29FJ99**
10"	10"	Flange	50 to 7000 gpm			RT-1000BRNPNSX-TS-GAXX	**29FK01**

PULSAFEEDER

Lead-Free Brass Inline Flowmeters


No. 22UM71

- Fluid temp. range: 35° to 105°F
- Max. pressure: 150 psi
- Accuracy: ±1.5%
- 6-digit display, except No. 22UM64 is 5-digit

Mechanical flowmeters feature a multi-jet chamber to help assure accuracy over a wide range of flows with low head loss. The load is equally distributed on the impeller to help prevent wear and maintain accuracy. Ideal for use in car washes, water chlorination, water treatment in cooling tower and boiler systems, and other applications that require proportional control.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Mfr. Model	Item No.
¾"	¾"	NPT	0.25 to 20 gpm	MTR104-G	**22UM64**
1"	1"	NPT	0.75 to 50 gpm	MTR304-G	**22UM70**
1½"	1½"	NPT	1.5 to 100 gpm	MTR404-G	**22UM71**

ModMAG by Badger Meter

Electromagnetic Flowmeters


No. 49DF03

- Fluid temp. range: 0° to 178°F
- Accuracy: ±0.25%

Feature no moving parts in the flow stream and are suitable for use in beverage, chemical, food, pharmaceutical, water, and wastewater applications.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Mfr. Model	Item No.
½"	½"	150 lb. Flange	0.08 to 34 gpm	M20-TE-005-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF02**
1"	1"		0.21 to 84 gpm	M20-HR-010-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF03**
1½"	1½"		0.55 to 220 gpm	M20-HR-015-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF04**
2"	2"		0.94 to 378 gpm	M20-HR-020-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF05**
3"	3"		2.21 to 883 gpm	M2-030-R1-A-MWW-S-XXGF-STD	**49DF06**
4"	4"		3.30 to 1320 gpm	M20-HR-040-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF07**
6"	6"		7.85 to 3141 gpm	M20-HR-060-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF08**
8"	8"		15.69 to 6278 gpm	M20-HR-080-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF09**
10"	10"		25.05 to 10021 gpm	M20-HR-100-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF10**
12"	12"		33.61 to 13445 gpm	M20-HR-120-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF11**


No. 6NZR9


No. 6PZU1

Blancett by Badger Meter

Turbine Flowmeters and Accessories

Flowmeters—Rugged construction features tungsten carbide rotor shaft for demanding industrial applications. CSA Certified.

Turbine models are compatible with corrosive or abrasive fluids; for pipelines, production/injection fields, and mining. For Blancett® 3A/Sanitary turbines, go to Grainger.com®.

- Fluid temp. range: -150° to 350°F
- Accuracy: ±1% of reading
- Repeatability: ±0.1%

Monitor Displays—Allow greater control of your flow operations and feature advanced connectivity design that lets you connect meters to your network for remote monitoring and for process automation capabilities.

Accessories—Repair Kits are designed for easy field repair of damaged flowmeters; no need to replace the entire unit. Kits are factory calibrated to help provide accurate output.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Max. Pressure	Chamber Material	Mfr. Model	Item No.
B1100 Flowmeters							
⅜"	½"	NPT	0.6 to 3 gpm	5000 psi	316 Stainless Steel	B110-375-1/2	**6NZR9**
⅜"	1"					B110-375	**6NZT2**
½"	½"		0.75 to 7.5 gpm			B110-500-1/2	**6NZT0**
½"	1"					B110-500	**6NZT3**
¾"	½"		2 to 15 gpm			B110-750-1/2	**6NZT1**
¾"	1"					B110-750	**6NZT4**
⅞"	1"		3 to 30 gpm			B110-875	**6NZT5**
1"	1"		5 to 50 gpm			B111-110	**6NZT6**
1½"	1½"		15 to 180 gpm			B111-115	**6NZT7**
1½"	2"					B111-121	**6NZT8**
2"	2"		40 to 400 gpm			B111-120	**6NZT9**
Quicksert® Flowmeters							
1"	2"	Wafer	5 to 50 gpm	3705 psi	316 Stainless Steel	B132-100	**6NZU0**
1½"	3"		15 to 180 gpm			B132-150	**6NZU1**
2"	2"		40 to 400 gpm			B132-200	**6NZU2**
3"	3"		60 to 600 gpm			B133-300	**6NZU3**

Item	For Use With	Mfr. Model	Item No.
Monitor Displays (Required)			
Advanced Flow Monitor Display	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B30AM-CS	**6PZU1**
	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU9, 6NZV0 thru 6NZV2	B30AR-CS	**6PZU3**
Basic Flow Monitor Display	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B30BM-CS	**6PZU0**
	Mfr. No. B110-750, 6NTZ5, 6NTZ6, 6NTZ7, 6NTZ8, B111-120, B132-100, B132-150, B132-200, B133-300, B16C-003A-0BA, B16C-005A-0BA, B16C-007A-0BA, B16C-105A-0BA, B16C-107A-0BA, B16C-108A-0BA, B16C-110A-0BA, 6NZV1 6NZV2	B30BR-CS	**6PZU2**
Accessories			
Cable 10 ft.	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B220-221	**6PZU4**
Turbine Flowmeter Meter Repair Kits	6NZR9, 6NZT2	B251-102	**6NZV8**
	6NZT0, 6NZT3	B251-105	**6NZV9**
	6NZT1, 6NZT4	B251-108	**6NZW0**
	6NZT5	B251-109	**6NZW1**
	6NZT6	B251-112	**6NZW2**
	6NZT7, 6NZT8	B251-116	**6NZW3**
	6NZT9	B251-120	**6PZT9**
	6NZU0	B253-212	**6NZV4**
	6NZU1	B253-216	**6NZV5**
	6NZU2	B253-220	**6NZV6**
	6NZU3	B253-330	**6NZV7**

Aluminum Air and Gas Flowmeters

Hedland® by Badger Meter

- Fluid temp. range: -20° to 240°F
- Max. pressure: 1000 psi
- Accuracy: ±2%, except where noted
- Viton® seals

Read in standard cu.-ft./min. (scfm); compensate for system pressures between 40 and 130 psi. Anodized aluminum body, piston, and cone. Install in any position, at any angle, even after 90° elbows; no need for special turbulence-reducing fittings.



No. 4NNC1

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.	
¼"	¼"	FNPT	0.5 to 5 scfm	4 13/16"	H271A-005	4NNC1	*
			2 to 20 scfm		H271A-020	4NNC2	*
			3 to 30 scfm		H271A-030	4NNC3	*
½"	½"		3 to 25 scfm	6 5/8"	H671A-025	4NNC4	
			5 to 50 scfm		H671A-050	4NNC5	
			10 to 100 scfm		H671A-100	4NNC6	
¾"	¾"		25 to 250 scfm	7 3/16"	H771A-100	4NNC7	
					H771A-250	4NNC8	

** ±7% accuracy.*

Aluminum Water-Based Flowmeters

Hedland® by Badger Meter

- Fluid temp. range: -20° to 240°F
- Max. pressure: 3500 psi
- Accuracy: ±2%, except where noted
- Viton® seals

Direct-reading scale and guard can be rotated 360°. Install in any position.



No. 4NMY5

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.	
¼"	¼"	FNPT	0.1 to 1 gpm	4 13/16"	H213A-010	4NMY6	*
			0.2 to 2 gpm		H213A-020	4NMY7	*
			0.5 to 0.50 gpm		H213A-005	4NMY5	*
½"	½"		0.2 to 2 gpm	6 5/8"	H613A-002	4NMY8	
			0.5 to 5 gpm		H613A-005	4NMY9	
			1 to 10 gpm		H613A-010	4NMZ1	
			1 to 15 gpm		H613A-015	4NMZ2	
¾"	¾"		2 to 20 gpm	7 3/16"	H713A-020	4NMZ3	
			3 to 30 gpm		H713A-030	4NMZ4	

** ±7% accuracy.*

Aluminum Oil Flowmeters

Hedland® by Badger Meter

- Fluid temp. range: -20° to 240°F
- Max. pressure: 3500 psi
- Accuracy: ±2%, except where noted
- Specific gravity: 0.876
- Viton® seals

Have a direct-reading 360° rotatable scale and guard. Install in any position without sacrificing accuracy.



No. 4NMV1

For Pipe Size	Connec. Size	Flow Range	Length	Mfr. Model	Item No.	
FNPT Connections						
¼"	¼"	0.05 to 0.5 gpm	4 13/16"	H201A-005	4NMV1	*
		0.1 to 1 gpm		H201A-010	4NMV2	*
		0.2 to 2 gpm		H201A-020	4NMV3	*
½"	½"	0.1 to 1 gpm	6 5/8"	H601A-001	4NMV8	
		0.2 to 2 gpm		H601A-002	4NMV9	
		0.5 to 5 gpm		H601A-005	4NMW1	
		1 to 10 gpm		H601A-010	4NMW2	
		1 to 15 gpm		H601A-015	4NMW3	
¾"	¾"	0.5 to 5 gpm	7 3/16"	H701A-005	4NMW8	
		1 to 10 gpm		H701A-010	4NMW9	
		2 to 20 gpm		H701A-020	4NMX1	
		3 to 30 gpm		H701A-030	4NMX2	
1"	1"	1 to 10 gpm		H761A-010	4NMX5	
		2 to 20 gpm		H761A-020	4NMX6	
		3 to 30 gpm		H761A-030	4NMX7	
		4 to 40 gpm		H761A-040	4NMX8	
		5 to 50 gpm		H761A-050	4NMX9	
1¼"	1¼"	10 to 75 gpm	12 3/16"	H801A-050	4NND5	
		10 to 100 gpm		H801A-075	4NND6	
		10 to 150 gpm		H801A-100	4NND7	
				H801A-150	4NND8	
SAE Hydraulic Connections						
½"	10	0.2 to 2 gpm	6 5/8"	H600A-002	4NMV4	
		0.5 to 5 gpm		H600A-005	4NMV5	
		1 to 10 gpm		H600A-010	4NMV6	
		1 to 15 gpm		H600A-015	4NMV7	
¾"	12	0.5 to 5 gpm	7 3/16"	H700A-005	4NMW4	
		1 to 10 gpm		H700A-010	4NMW5	
		2 to 20 gpm		H700A-020	4NMW6	
		3 to 30 gpm		H700A-030	4NMW7	
1"	16	2 to 20 gpm		H760A-020	4NMX3	
		5 to 50 gpm		H760A-050	4NMX4	
1¼"	20	3 to 30 gpm	12 3/16"	H800A-030	4NND1	
		5 to 50 gpm		H800A-050	4NND2	
		10 to 75 gpm		H800A-075	4NND3	
		10 to 100 gpm		H800A-100	4NND4	

** ±7% accuracy.*

Water Flowmeters

Hedland® by Badger Meter



No. 4NMZ5 No. 4NNF4

Variable-area meters are offered with a direct-reading scale. Install in any position, even after 90° elbows, with no need for special turbulence-reducing fittings.

Standard
- Fluid temp. range: -20° to 240°F
- Accuracy: ±2% (except where noted)

EZ-View®
- Fluid temp. range: 32° to 250°F (except where noted)
- Accuracy: ±5%

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.	
Standard							
Brass Housing, 3500 psi Max., Viton® Seals							
¼"	¼"	FNPT	0.05 to 0.5 gpm	4 13/16"	H205B-005	4NMZ5	*
			0.1 to 1 gpm		H205B-010	4NMZ6	*
			0.2 to 2 gpm		H205B-020	4NMZ7	*
½"	½"		0.2 to 2 gpm	6 5/8"	H605B-002	4NMZ8	
			0.5 to 5 gpm		H605B-005	4NMZ9	
			1 to 10 gpm		H605B-010	4NNA1	
			1 to 15 gpm		H605B-015	4NNA2	
¾"	¾"		0.5 to 5 gpm	7 3/16"	H705B-005	4NNA3	
			1 to 10 gpm		H705B-010	4NNA4	
			2 to 20 gpm		H705B-020	4NNA5	
			3 to 30 gpm		H705B-030	4NNA6	
1"	1"		1 to 10 gpm		H755B-010	4NNA7	
			2 to 20 gpm		H755B-020	4NNA8	
Stainless Steel Housing, 5000 psi Max., Viton® Seals							
1"	1"	FNPT	2 to 20 gpm	7 3/16"	H755S-020	4NNA9	
EZ View®							
Polysulfone Housing, Brass Fitting, 325 psi Max., Buna N Seals							
½"	½"	FNPT	0.5 to 4 gpm	7¾"	H624-004	4NNE7	
			1 to 7 gpm		H624-007	4NNE8	
			1 to 10 gpm		H624-010	4NNE9	
			1 to 16 gpm		H624-016	4NNF1	
¾"	¾"	MNPT	0.5 to 4 gpm	8¼"	H625-004	4NNF4	
			1 to 7 gpm		H625-007	4NNF5	
			1 to 10 gpm		H625-010	4NNF6	
			1 to 16 gpm		H625-016	4NNF7	
			4 to 28 gpm		H625-028	4NNF8	
Polysulfone Housing, Polysulfone Fitting, 325 psi Max., Buna N Seals							
1"	1"	MNPT	0.5 to 4 gpm	5¼"	H621-004	4NNE1	
			1 to 7 gpm		H621-007	4NNE2	
			1 to 10 gpm		H621-010	4NNE3	
			1 to 16 gpm		H621-016	4NNE4	
			3 to 18 gpm		H621-018	4NNE5	
			4 to 28 gpm		H621-028	4NNE6	
Polysulfone Housing, PVC Fitting, Buna N Seals							
1"	1"	Socket	1 to 10 gpm	8 1/16"	H628-010	4NNG1	†
Radel® Housing, 325 psi Max., Buna N Seals							
1"	1"	MNPT	0.5 to 4 gpm	5¼"	H621-004-R	6KEX9	
			1 to 7 gpm		H621-007-R	6KEY0	
			1 to 10 gpm		H621-010-R	6KEY1	
			1 to 16 gpm		H621-016-R	6KEY2	
			3 to 18 gpm		H621-018-R	6KEY3	
			4 to 28 gpm		H621-028-R	6KEY4	
Radel® Housing, Brass Fitting, 325 psi Max., Buna N Seals							
½"	½"	FNPT	0.5 to 4 gpm	7¾"	H624-004-R	6JFX2	
			1 to 7 gpm		H624-007-R	6JFX3	
			1 to 10 gpm		H624-010-R	6JFX4	
			1 to 16 gpm		H624-016-R	6JFX5	
¾"	¾"	MNPT	0.5 to 4 gpm	8¼"	H625-004-R	6KEW7	
			1 to 7 gpm		H625-007-R	6KEW8	
			1 to 10 gpm		H625-010-R	6KEW9	
			1 to 16 gpm		H625-016-R	6KEX0	
			3 to 18 gpm		H625-018-R	6KEX1	
			4 to 28 gpm		H625-028-R	6KEX2	
¾", 1"	¾", 1"	Sweat	0.5 to 4 gpm	7¾"	H620-004-R	6JFY0	
			1 to 7 gpm		H620-007-R	6JFY1	
			1 to 10 gpm		H620-010-R	6JFY2	
			1 to 16 gpm		H620-016-R	6JFY3	
			3 to 18 gpm		H620-018-R	6JFY4	
			4 to 28 gpm		H620-028-R	6JFY5	
1½"	1½"	FNPT	1 to 7 gpm	8 11/16"	H615-075-R	6KFC8	
			2 to 25 gpm		H615-025-R	6KFC6	
			5 to 50 gpm		H615-050-R	6KFC7	
			10 to 100 gpm		H615-010-R	6KFC5	
2"	2"		1 to 7 gpm		H617-025-R	6KFD4	
			5 to 50 gpm		H617-050-R	6KFD5	
			7 to 75 gpm		H617-075-R	6KFD6	
			10 to 100 gpm		H617-010-R	6KFD3	
Radel® Housing, PVC Fitting, Buna N Seals							
1"	1"	MNPT	0.5 to 4 gpm	8⅞"	H629-004-R	6KFA3	†
			1 to 7 gpm		H629-007-R	6KFA4	†
			1 to 10 gpm		H629-010-R	6KFA5	†
			1 to 16 gpm		H629-016-R	6KFA6	†
			3 to 18 gpm		H629-018-R	6KFA7	†
			4 to 28 gpm		H629-028-R	6KFA8	†
		Socket	0.5 to 4 gpm		H628-004-R	6KEZ1	†
			1 to 7 gpm		H628-007-R	6KEZ2	†
			1 to 10 gpm		H628-010-R	6KEZ3	†
			1 to 16 gpm		H628-016-R	6KEZ4	†
			3 to 18 gpm		H628-018-R	6KEZ5	†
			4 to 28 gpm		H628-028-R	6KEZ6	†
2"	2"		1 to 10 gpm	11½"	H619-010-R	6KFE1	†
			1 to 16 gpm		H619-025-R	6KFE2	†
			3 to 18 gpm		H619-050-R	6KFE3	†
			4 to 28 gpm		H619-075-R	6KFE4	†

** ±7% accuracy. † 32° to 140°F.*



No. 49DE96



No. 5XPL9

Portable Ultrasonic Flowmeters

Dynasonics by Badger Meter

Designed for quick, non-invasive troubleshooting and verifying system performance during commissioning and/or as part of a scheduled routine/audit.

DXN Flowmeter Kits—50 samples per second; full-pipe only, ANSI/Copper. Color touch screen with built-in data logger.

- Fluid temp. range: -40° to 350°F
- Accuracy: ±1% of reading
- Transit time = clean fluids
- Doppler = solid particulates and/or bubbles

UFX Doppler Flowmeter Kit—Full-pipe only. LCD display. Great for concrete slurries, dredging primary sludge, and waste-activated sludge.

- Fluid temp. range: -40° to 180°F
- Accuracy: ±2% full-scale
- 0.30 to 30.00 ft./sec. flow range

Description	Mfr. Model	Item No.
DXN Flowmeter Kits w/ Case & Clamp-On Transducers & Cables		
Basic, Transit Time ½" to 2" and 2" to 20"	DXNP-ABS-NN	**49DE96**
All Transit Time, ½" to 120"	DXNP-ATS-NN	**49DE97**
Hybrid, Transit Time ½" to 2" and 2" to 20"; Doppler 2" to 120"	DXNP-AHS-NN	**49DE98**
Energy, Transit Time ½" to 2" and 2" to 20" with Noninvasive RTD's	DXNP-AES-NN	**49DE99**
Full, Transit Time ½" to 120"; Doppler 2" to 120" with Noninvasive RTD's & a Pipe Wall Thickness Gauge	DXNP-AFS-NN	**49DF01**
UFX Doppler Flowmeter Kit with Case, Transducer, Acoustic Couplant & 4 AA Batteries		
Hand Held, 1" Pipe and Above	DUFX1-D1	**5XPL9**

Doppler Ultrasonic Flowmeters

Dynasonics by Badger Meter

- Accuracy: ±2% full scale
- Flow velocity range: 0.15 to 30 ft./sec.

Non-invasive meters measure full-pipe flows of liquids containing suspended particles or aerated liquids such as sewage, mud slurries, and plastics.

DFX Flowmeter Systems—Systems include transmitter and transducer.

- Ambient temp. range: -40° to 185°F

DFX Flowmeter Transmitters—Each transmitter allows up to 4 meters to be interconnected.

- Ambient temp. range: -40° to 185°F



No. 5XPN0

Flowmeter Transducers—Suitable for most plastic and metal pipes.

- Ambient temp. range: -40° to 194°F



No. 5XPN2

Power Source	Includes	Mfr. Model	Item No.
DFX Flowmeter Systems (Transmitter and Transducer)			
115 VAC	Transducer For Pipe Size 1" and Above - 5XPN2	—	**7HU43**
	Transducer For Pipe Size ¼" to 1" - 5XPN3	—	**7HU44**
12-28 VDC	Transducer For Pipe Size 1" and Above - 5XPN2	—	**7HU45**
	Transducer For Pipe Size ¼" to 1" - 5XPN3	—	**7HU46**
DFX Flowmeter Transmitters			
115 VAC	—	DDFXD2-ANNA-NN	**5XPN0**
9-28 VDC	—	DDFXD2-ENNA-NN	**5XPN1**

Description	For Use With	Mfr. Model	Item No.
Flowmeter Transducers			
Pipe Size (In.): 1 and above	5XPN0, 5XPN1	DT94-020-N000-N	**5XPN2**
Pipe Size (In.): 0.25 to 1.00		DT95-020-N000-N	**5XPN3**
Modules			
4-20 mA Output Module	5XPN0, 5XPN1	D020-1045-100	**5XPN4**
Rate Pulse Output Module, 0-2,500Hz		D020-1045-207	**5XPN5**
Control Relay Module-Two Form C		D020-1045-102	**5XPN6**



No. 49DE95



No. 49DE94

Dynasonics by Badger Meter

Transit Time Ultrasonic Flowmeters

Design provides non-invasive, bi-directional, clean liquid measurement with full pipe. Use to measure clean fluids with small amounts of suspended solids or aeration in energy monitoring, HVAC, power generation, and water treatment applications. Totalizer options include forward, reverse, and net total. 4-button keypad.

TFX Flowmeter Remote-Mount Transmitters—Clamp-on meters require Transducer No. 49DE94, sold separately.

- Accuracy: ±1% of reading

DTTR Transducer—Strap-on transducer is mounted and wired directly to the remote-mounted TFX transmitter.

- Fluid temp. range: -40° to 250°F
- NEMA 6/IP67

Type	Display Type	Housing Material	Flow Range	For Pipe Size	Flow Meter Pipe Type	Power Req.	Mfr. Model	Item No.
TFX Flowmeter Remote-Mount Transmitter								
Ultrasonic	Backlit LCD	Aluminum	0.00612 to 1,410,000 gpm	—	—	95-264 VAC	DTFXE-ZN-AKPB-NN	**49DE95**
DTTR Transducer								
Transducers	—	PBT Glass Filled	0.09792 to 940,420 gpm	2 in to 98 in	ANSI/ Copper	—	DTTR-020-N000-N	**49DE94**

Impeller by Badger Meter

Transmitters and Flowmeters

For use in water/wastewater treatment, irrigation, industrial, and HVAC/building automation applications.

Flow Transmitters—Can receive sensor data and convert it to the desired output that represents the flow rate.

BTU/Flowmeters—Measure flow and temperature differential to compute energy in hot service applications. Output is scaled pulse and RS-485 (Modbus and BACnet).

- Fluid temp. range: 20° to 260°F
- Accuracy: ±2%



No. 49DF12



No. 49DF19

Brass Flowmeters—Each sensor comes with 20-ft., 2-conductor 20 AWG shielded UL type PTLC 221°F (105°C) cable.

- Fluid temp. range: 0° to 221°F
- Accuracy: ±1

Stainless Steel Insertion Flowmeters—Suitable for use in flow control and batch type applications.

- Fluid temp. range: 14° to 150°F
- Accuracy: ±1%

Description	Mfr. Model	Item No.
Flow Transmitters		
Analog Signal, 9-35VDC	310-00	**49DF35**
BACnet and Modbus Signal, 12-24VAC	340BN/MB-00	**49DF34**
Lon Works Signal, 12-24VAC/DC	340LW-00	**49DF38**
N2 Output Signal, 12-24VAC	340N2-00	**49DF33**
Pulse Signal, 12-28VAC	320-00	**49DF36**
Relay Signal, 12-28VAC	330-00	**49DF37**

For Pipe Size	Flow Range	Wetted Materials†	Mfr. Model	Item No.
BTU/Flowmeters, FNPT, All-In-One				
¾ in	1.65 to 24.69 gpm	Brass, PEEK	380207000-1202	**49DF12**
1 in	2.70 to 40.48 gpm		380210000-1202	**49DF13**
1 ¼ in	4.66 to 69.93 gpm		380212000-1202	**49DF14**
1 ½ in	6.35 to 95.18 gpm		380215000-1202	**49DF15**
2 in	10.49 to 157.34 gpm		380220000-1202	**49DF16**
Brass Insertion Flowmeter				
3 in	—	Brass, EPDM, Nylon, Tungsten, UHMWPE	220BR0005-1211	**49DF24**
Brass T Flowmeters, FNPT				
½ in	0.18 to 9.18 gpm	Brass, EPDM, Nylon, Tungsten, UHMWPE	250BR0505-1211	**49DF19**
¾ in	0.41 to 20.6 gpm		250BR0705-1211	**49DF20**
1 in	0.73 to 36.7 gpm		250BR1005-1211	**49DF21**
1 ¼ in	1.14 to 57.3 gpm		250BR1205-1211	**49DF22**
1 ½ in	1.65 to 82.6 gpm		250BR1505-1211	**49DF23**
2 in	5.00 to 300 gpm		228BR2005-1211	**49DF17**
2 ½ in	7.65 to 459 gpm		228BR2505-1211	**49DF18**
Stainless Steel Insertion Flowmeters (NEMA 4X Enclosure)				
1 ½ in to 10 in	5.50 to 4896 gpm	316 Stainless Steel, Brass, PPS Tip, PEEK	SDI1D1N00-0200	**49DF25**
1 ½ in to 10 in	5.50 to 4896 gpm		SDI0D1N00-0200	**49DF29**
12 in to 36 in	352 to 63,452 gpm		SDI1D2N00-0200	**49DF26**
12 in to 36 in	352 to 63,452 gpm		SDI1D2N11-0200	**49DF27***
12 in to 36 in	352 to 63,452 gpm		SDI1D2N10-0200	**49DF28**
12 in to 36 in	352 to 63,452 gpm		SDI0D2N00-0200	**49DF30**
12 in to 36 in	352 to 63,452 gpm		SDI0D2N11-0200	**49DF31***
12 in to 36 in	352 to 63,452 gpm		SDI0D2N10-0200	**49DF32**

**** LCD display. † EPDM = ethylene propylene diene monomer rubber, PEEK = polyetheretherketone, PPS = polyphenylene sulfide, UHMWPE = ultra-high-molecular-weight polyethylene.***

BROOKS® INSTRUMENT

Acrylic Variable-Area Flowmeters

- Max. operating pressure: 100 psi
- Max. operating temp.: 150°F
- Max. viscosity: 16.4 CST

Clear acrylic meters have stable, easy-to-read floats with English or metric scales. They are integral-valved to permit individual flow control in air-sampling equipment, desalinization equipment, medical systems, water treatment and distribution systems, swimming pools, and aquaculture systems. Back-mounted meters (see Model-Accuracy-Dimensions chart) have standard 10-32 brass inserts for quick installation.

Model	Accuracy	Dim. (in.) W	H	D	Center-to-Center Fittings*	Inserts
2510	±5%	1	4	1⅛	3	1⅜
2520	±3%	1⅜	6½	1⅛	5½	3½
2530	±3%	1⅛	6⅝	1⅜	5½	3½
2540	±2%	1¾	10²⁹⁄₃₂	2	8½	4½

** Back connection mounting.*



No. 16X850


No. 4UM99


No. 4UN06

Connec. Size	Flow Range†	Center-Center Fitting Size	O-Ring	Fitting	Includes	Mfr. Model	Item No.
Air							
	.04 to .5 lpm	3"	Buna-N	Brass	One Valve on Inlet	2510A2A12BVBN	**16X850**
	.1 to 1 lpm	3"	Viton	Stainless Steel	Valves	2510A2A13SVVT	**16X851**
	.1 to 1 lpm	3"	Buna	Brass	Flowmeter Only	2510A2A13BNBN	**16X852**
	0.3 to 3 scfm	5.5"	Viton	Stainless Steel	Valves	2520A4A37SVVT	**5P364**
	0.3 to 3 scfm	5.5"	Nitrile	Brass	Valves	2520A4A37BVBN	**5P348**
	.4 to 5 lpm	3"	Viton	Stainless Steel	Valves	2510A2A14SVVT	**16X853**
	.4 to 5 lpm	3"	Buna	Brass	Flowmeter Only	2510A2A14BNBN	**16X854**
	2 to 25 lpm	3"	Viton	Stainless Steel	Valves	2510A2A16SVVT	**16X855**
	2 to 25 lpm	3"	Buna	Brass	Flowmeter Only	2510A2A16BNBN	**16X856**
	10 to 100 lpm	3"	Viton	Stainless Steel	Valves	2510A2A18SVVT	**16X857**
	10 to 100 scfh	5.5"	Viton	Stainless Steel	Valves	2520A4A34SVVT	**5P361**
	10 to 100 scfh	5.5"	Nitrile	Brass	Valves	2520A4A34BVBN	**5P345**
	11 to 100 lpm	3"	Buna	Brass	Flowmeter Only	2510A2A18BNBN	**16X858**
	20 to 200 scfh	5.5"	Viton	Stainless Steel	Valves	2520A4A36SVVT	**5P363**
	20 to 200 scfh	5.5"	Nitrile	Brass	Valves	2520A4A36BVBN	**5P347**
	0.5 to 5 scfm	5.5"	Viton	Stainless Steel	Valves	2530A4A67SVVT	**4UN01**
	0.5 to 5 scfm	5.5"	Nitrile	Brass	Valves	2530A4A67BVBN	**4UM99**
	1 to 10 scfm	5.5"	Viton	Stainless Steel	Valves	2530A4A65SVVT	**4UM98**
	1 to 10 scfm	5.5"	Nitrile	Brass	Valves	2530A4A65BVBN	**4UM97**
	3 to 25 scfm	8.5"	Nitrile	PVC	—	2540A5A50PS	**4UN06**
	4 to 50 scfm	8.5"	Nitrile	PVC	—	2540A5A51PS	**4UN07**
	10 to 100 scfm	—	Nitrile	PVC	—	2540A5A52PS	**4UN08**
Water							
	0.2 to 2.5 gpm	5.5"	Nitrile	Brass	—	2520Z-001021	**5P321**
	1 to 10 gph	5.5"	Viton	Stainless Steel	Valves	2520A4L45SVVT	**5P349**
	1 to 10 gph	3"	Viton	Stainless Steel	Valves	2510A2L20SVVT	**16X863**
	1 to 10 gph	5.5"	Nitrile	Brass	Valves	2520A4L45BVBN	**5P333**
	1 to 10 gph	3"	Buna	Brass	Flowmeter Only	2510A2L20BNBN	**16X864**
	2 to 25 gph	5.5"	Viton	Stainless Steel	Valves	2520A4L48SVVT	**5P350**
	2 to 25 gph	5.5"	Nitrile	Brass	Valves	2520A4L48BVBN	**5P334**
	4 to 40 gph	3"	Viton	Stainless Steel	Valves	2510A2L22SVVT	**16X865**
	4 to 40 gph	3"	Buna	Brass	Flowmeter Only	2510A2L22BNBN	**16X866**
	4 to 50 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L38SVVT	**5P353**
⅛"	4 to 50 ccm	5.5"	Nitrile	Brass	Valves	2520A4L38BVBN	**5P337**
	6 to 60 gph	5.5"	Viton	Stainless Steel	Valves	2520A4L46SVVT	**5P352**
	6 to 60 gph	5.5"	Nitrile	Brass	Valves	2520A4L46BVBN	**5P336**
	10 to 120 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L56SVVT	**5P354**
	20 to 240 ccm	3"	Viton	Stainless Steel	Valves	2510A2L11SVVT	**16X861**
	20 to 240 ccm	3"	Buna	Brass	Flowmeter Only	2510A2L11BNBN	**16X862**
	25 to 225 ccm	5.5"	Nitrile	Brass	Valves	2520A4L51BVBN	**5P339**
	40 to 400 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L50SVVT	**5P356**
	40 to 660 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L52SVVT	**5P357**
	100 to 1500 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L53SVVT	**5P358**
	200 to 3000 ccm	5.5"	Viton	Stainless Steel	Valves	2520A4L54SVVT	**5P359**
	0.25 to 2.5 gpm	5.5"	Viton	Stainless Steel	Valves	2530A4L64SVVT	**4UN03**
¼"	0.25 to 2.5 gpm	5.5"	Nitrile	Brass	Valves	2530A4L64BVBN	**4UN02**
	0.4 to 5 gpm	5.5"	Viton	Stainless Steel	Valves	2530A4L66SVVT	**4UN05**
	0.5 to 5 gpm	5.5"	Nitrile	Brass	Valves	2530A4L66BVBN	**4UN04**
	0.4 to 5 gpm	—	Nitrile	PVC	—	2540A5L56PI	**4UN11**
1"	1 to 10 gpm	—	Nitrile	PVC	—	2540A5A57PI	**4UN09**
	2 to 20 gpm	—	Nitrile	PVC	—	2540A5A58PI	**4UN10**

† ccm = cubic centimeters per min. (metric); gph = gal. per hr. (English); gpm = gal. per min. (English); lpm = liters per min. (metric); scfh = standard cu. ft. per hr. (English); scfm = standard cu. ft. per min. (English).

Air and Liquid Flow Switches

McDonnell & Miller
a xylem brand

- Single-pole, double-throw snap switch
- Sensitivity flow adjustment screw
- 120/240VAC operation
- Full load amps: 7.4 at 115V, 3.7 at 230V

Additional flow range information is available on Grainger.com®, or call 1-800-GRAINGER (472-4643).

Air Flow General-Purpose—For applications with medium- and high-velocity requirements. Paddle fits 8" minimum duct size (trim to fit 6" duct). Sensitivity flow adjustment screw.

Liquid Flow General-Purpose—Start or stop electrically operated equipment such as signal lights, alarms, motors, automatic burners, and metering devices. Nos. 2RUL3 and 2RUL4 have 4 stainless steel paddles that fit 1", 2", 3", and 6" pipe; paddle can be trimmed to fit incremental pipe sizes.

Liquid Flow High-Sensitivity—For heavy-duty applications that need instant switching such as water treatment systems, electronic circuit cooling systems, compressors, booster pumps, and bearings.

Liquid Flow Industrial/ Heavy-Duty—Designed for large pipe applications, including heating and hydronic systems, air conditioning, refrigeration, and process work. Paddles can be trimmed to suit. Fit 2" to 16" pipe with flow rates up to 998 gpm.

Paddle Kits—Designed to replace damaged paddles and return flow switches to original flow-sensing capability.

Operating Velocity Range, Horizontal (fpm)	Max. Operating Velocity (fpm)	Material of Construc.	Switch Enclosure	Mfr. Model	Item No.
Air Flow General-Purpose; Air Temp 32° to 300°F					
910 to 1610	2500	Vane: Steel/Brass, Seal: Steel/PTFE	NEMA 1	AF-1	**4RC76**

Min. Flow Rate (gpm)	Max. Flow (gpm)	Wetted Materials	Max. Pressure (psi)	Switch Enclosure	Connection Size (in.)	Mfr. Model	Item No.
Liquid Flow General-Purpose; Max. Fluid Temp. 32° to 250°F							
5.8	131	Brass, SS, EPDM	160	NEMA 1	1 MNPT	FS251	**2RUL3**
1.5	15	Brass, EPDM, BUNA	150	NEMA 1	¾ FNPT	FS5-3/4	**4RC67**
1.5	15	Brass, EPDM, BUNA	150	NEMA 1	1 FNPT	FS5-1	**1RF63**
Liquid Flow General-Purpose; Max. Fluid Temp. 30° to 250°F							
5.8	131	Brass, SS, EPDM	160	NEMA 4	1 MNPT	FS254	**2RUL4**
Liquid Flow High-Sensitivity; Max. Fluid Temp. 32° to 225°F							
0.12	2.5	Brass, SS, Viton	100	NEMA 1	¾ FNPT	FS6-3/4	**1RF64**
0.12	2.5	Brass, SS, Viton	100	NEMA 4X	¾ FNPT	FS6-W-3/4	**1RF65**
0.12	2.5	Brass, SS, Buna-N, Viton	100	NEMA 1	1 FNPT	FS6-1	**4RC68**
0.12	2.5	Brass, SS, Buna-N, Viton	100	NEMA 4X	1 FNPT	FS6-W-1	**4RC69**
Liquid Flow Industrial/Heavy-Duty Liquid Flow, Max. Fluid Temp. 32° to 300°F; Nos. 4RC72 and 4RC73, -65° to 300°F							
4.8	7.7	Brass, SS, Bronze, PTFE	300	NEMA 1	1 ¼ MNPT	FS7-4	**4RC70**
Liquid Flow Industrial/Heavy-Duty, Max. Fluid Temp. 32° to 300°F; Nos. 4RC72 and 4RC73, -65° to 300°F							
4.8	7.7	SS, PTFE	1000	NEMA 1	1 ¼ MNPT	FS7-4S	**4RC71**
4.8	7.7	Brass, SS, Bronze, PTFE	300	NEMA 4X	1 ¼ MNPT	FS7-4W	**4RC72**
4.8	7.7	SS, PTFE	1000	NEMA 4X	1 ¼ MNPT	FS7-4SW	**4RC73**
4.8	7.7	Brass, SS, Bronze, PTFE	300	NEMA 7,9	1 ¼ MNPT	FS7-4E	**4RC74**

Type	For Use With	Includes	Item No.
Paddle Kits			
Stainless Steel	2RUL3, 2RUL4	1 Each of 1", 2", 3", and 6" Paddles	**2RUL5**
Bronze	4RC70 to 4RC74	1 Each of 1¼" and 6" Paddles	**2RUL6**
Stainless Steel	4RC70 to 4RC74	1 Each of 1¼" and 6" Paddles	**2RUL7**


No. 4RC76


No. 2RUL3


No. 4RC67


No. 2RUL4


No. 4RC70

No. 4UP14



No. 4UP27



PULSAFEEDER
PULSAtron®

Adjustable Diaphragm Pumps

- Self-priming
- Max. viscosity: 1000cP
- 115V

Adjustable single-head metering pumps have a double-ball check valve and leak-free sealless liquid end. Powered by a high-quality fin-cooled solenoid. Wetted parts: PTFE-faced CSPE diaphragm, ABS body, ceramic ball, PTFE seals and O-rings, and PVC/polyethylene tubing. Each includes foot valve/strainer assembly, backpressure injection valve assembly, 4-ft. suction tubing, 8-ft. discharge tubing, and 4-ft. bleed valve tubing. Models with PVDF construction are NSF 61 compliant.

A Plus Series—Allow you to adjust the stroke length and stroke rate. Pumps are internally dampened to reduce noise and are water-resistant for outdoor use.

C Series—Manual control lets you adjust the stroke length. Models are internally dampened to help reduce noise.

E Plus Series—Feature Off/Manual selector switch, indicator lights, and built in circuit protection.

MP Series—Pumps have automatic control, fully scalable 4-20mADC, 20-4mADC, or external pacing. Relay output and stop input. 16-character LCD is programmable in 4 languages.

Note: Tubing is ⅜" O.D. for Max. Flow to 44 gpd, ½" O.D. for Max. Flow 96 gpd and higher.

Replacement 5-Function Valves—Easy-to-install, corrosion-resistant valves have a chemical-resistant wetted end, with recessed screws.

Max. Flow	Max. Pressure	Reproducibility	Head and Fitting Material	Mfr. Model	PUMPS Item No.	REPAIR KITS Item No.
A Plus Series, 100:1 Turndown Ratio						**For A Series**
6.00 gpd	150 psi	±3.0%	GFPPL	LB02SA-PTC1-G19	**4UP25**	**4UP12**
6.00 gpd	150 psi	±3.0%	PVDF	LB02SA-KTC1-G19	**6KYG6**	**23LY06**
12.00 gpd	150 psi	±3.0%	GFPPL	LB03SA-PTC1-G19	**4UP26**	**4UP13**
12.00 gpd	150 psi	±3.0%	PVDF	LB03SA-KTC1-G19	**6KYG7**	**6KYH5**
24.00 gpd	100 psi	±3.0%	GFPPL	LB04SA-PTC1-G19	**20LX58**	**4UP14**
24.00 gpd	100 psi	±3.0%	PVDF	LB04SA-KTC1-G19	**20LX59**	**6KYH6**
30.00 gpd	100 psi	±3.0%	GFPPL	LB64SA-PTC1-G19	**4UP27**	**4UP14**
30.00 gpd	100 psi	±3.0%	PVDF	LB64SA-KTC1-G19	**6KYG8**	**6KYH6**
58.00 gpd	100 psi	±3.0%	GFPPL	LBS4SA-PTC1-G19	**20LX56**	**4UP14**
58.00 gpd	100 psi	±3.0%	PVDF	LBS4SA-KTC1-G19	**20LX57**	**6KYH6**
C Series, 10:1 Turndown Ratio						
6.00 gpd	80 psi	±3.0%	GFPPL	LC02SA-PTC1-G19	**20LX67**	**4UP12**
12.00 gpd	80 psi	±3.0%	GFPPL	LC03SA-PTC1-G19	**20LX68**	**4UP13**
24.00 gpd	80 psi	±3.0%	GFPPL	LC04SA-PTC1-G19	**20LX69**	**4UP14**
30.00 gpd	80 psi	±3.0%	GFPPL	LC54SA-PTC1-G19	**20LX70**	**4UP14**
E Plus Series, 100:1 Turndown Ratio						**For E Series**
5.00 gpd	250 psi	±2.0%	GFPPL	LPB2SA-PTC1-G19	**20LX60**	**4UP12**
5.00 gpd	250 psi	±2.0%	PVDF	LPB2SA-KTC1-G19	**20LX61**	**23LY06**
12.00 gpd	150 psi	±2.0%	GFPPL	LPB3SA-PTC1-G19	**20LX62**	**4UP13**
12.00 gpd	150 psi	±2.0%	PVDF	LPB3SA-KTC1-G19	**20LX63**	**6KYH5**
24.00 gpd	100 psi	±2.0%	GFPPL	LPB4SA-PTC1-G19	**20LX64**	**4UP14**
24.00 gpd	100 psi	±2.0%	PVDF	LPB4SA-KTC1-G19	**20LX65**	**6KYH6**
41.00 gpd	250 psi	±2.0%	GFPPL	LPH4SA-PTC1-G19	**4UP30**	**4UP14**
41.00 gpd	250 psi	±2.0%	PVDF	LPH4SA-KTC1-G19	**6KYH1**	**6KYH6**
44.00 gpd	100 psi	±2.0%	GFPPL	LPE4SA-PTC1-G19	**4UP28**	**4UP14**
44.00 gpd	100 psi	±2.0%	PVDF	LPE4SA-KTC1-G19	**6KYG9**	**6KYH6**
96.00 gpd	100 psi	±2.0%	GFPPL	LPG5SA-PTC3-G19	**4UP29**	**4UP15**
96.00 gpd	100 psi	±2.0%	PVDF	LPG5SA-KTC3-G19	**6KYH0**	**23LX66**
120.00 gpd	100 psi	±2.0%	GFPPL	LPH6SA-PTC3-G19	**4UP31**	**4UP16**
120.00 gpd	100 psi	±2.0%	PVDF	LPH6SA-KTC3-G19	**6KYH2**	**6KYH8**
240.00 gpd	35 psi	±2.0%	GFPPL	LPH7SA-PTC3-G19	**4UP32**	**4UP17**
240.00 gpd	35 psi	±2.0%	PVDF	LPH7SA-KTC3-G19	**6KYH3**	**23LX96**
600.00 gpd	30 psi	±2.0%	GFPPL	LPH8SA-PTCB-G19	**20LX66**	**42EU79**
MP Series, 1000:1 Turndown Ratio						
5.00 gpd	250 psi	±2.0%	GFPPL	LMB2TA-PTC1-G19	**20LX71**	**4UP12**
12.00 gpd	150 psi	±2.0%	GFPPL	LMB3TA-PTC1-G19	**20LX72**	**4UP13**
24.00 gpd	100 psi	±2.0%	GFPPL	LMB4TA-PTC1-G19	**20LX73**	**4UP14**
41.00 gpd	250 psi	±2.0%	GFPPL	LMH4TA-PTC1-G19	**20LX74**	**4UP14**
44.00 gpd	100 psi	±2.0%	GFPPL	LME4TA-PTC1-G19	**20LX75**	**4UP14**
96.00 gpd	100 psi	±2.0%	GFPPL	LMG5TA-PTC3-G19	**20LX76**	**4UP15**
120.00 gpd	100 psi	±2.0%	GFPPL	LMH6TA-PTC3-G19	**20LX77**	**4UP16**
240.00 gpd	35 psi	±2.0%	GFPPL	LMH7TA-PTC3-G19	**20LX78**	**4UP17**
504.00 gpd	20 psi	±2.0%	GFPPL	LMH8TA-PTCB-G19	**20LX79**	**42EU79**

Tubing Connec. (in.)	Item No.
Replacement 5 Function Valves	
⅜	**4UP22**
½	**4UP23**

No. 3HHF1



PULSAFEEDER
CHEM-TECH

Adjustable- and Fixed-Rate Peristaltic Metering Pumps

- Self-priming to 24 ft.
- 115VAC

Have chemical-resistant Norprene® tubing and PVC fittings for flow up to 300cP, even with outgassing (offgassing) liquids. Rugged ABS enclosure, control cover, and rain shield that allows for horizontal/vertical mounting. PVC head assembly has toolless design, and a jog mode for tubing changes. Include suction strainer, 15 ft. of ¼" PE suction and discharge tubing, injection quill with 7 psi backpressure, and extra pump tube. ¼" MNPT PVC fitting eases connection to piped systems. Replacement tube assemblies are available on Grainger.com®. ETL Listed to U.S., Canadian, and CE standards. NSF 61 Approved.

Adjustable-Rate—A timing circuit is adjustable in 1% increments from 5% to 100% of rated flow for a 20:1 turndown ratio. No mechanical adjustment components to wear out.

Variable-Speed—Microprocessor control with LCD allows manual or automatic output adjustment with a 4-20mA signal. 100:1 turndown ratio.

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
Adjustable Rate			
7.00 gpd	125 psi	XP007LAHXG19	**3HHF1**
9.00 gpd	110 psi	XP009LAHXG19	**3HHF2**
15.00 gpd	110 psi	XP015LAHXG19	**3HHF3**
30.00 gpd	80 psi	XP030LAHXG19	**3HHF4**
Fixed Rate			
7.00 gpd	125 psi	XP007LFHXG19	**3HHF5**
9.00 gpd	110 psi	XP009LFHXG19	**3HHF6**
15.00 gpd	110 psi	XP015LFHXG19	**3HHF7**
30.00 gpd	80 psi	XP030LFHXG19	**3HHF8**
Variable-Speed			
8.00 gpd	125 psi	XP008LVHXG19	**4RZK1**
17.00 gpd	110 psi	XP017LVHXG19	**4RZK2**
33.00 gpd	100 psi	XP033LVHXG19	**4RZK3**
55.00 gpd	80 psi	XP055LVHXG19	**4RZK4**
100.00 gpd	25 psi	XP100LVLXG19	**4RZK5**

No. 2P305



PULSAFEEDER

Multipurpose Peristaltic Metering Pumps

- Self-priming to 15 ft.
- 120VAC

Nonclogging, adjustable output, valveless pumps are chemical- and corrosion-resistant and for use with off-gassing chemicals such as hydrogen peroxide and chlorine. Compatible with liquid chlorine, weak acids, detergents, polymers, and wetting agents. Polycarbonate head, Norprene® peristaltic tubing, PVC injection fitting, polypropylene strainer with weight, and 15-ft. polyethylene tubing. Max. viscosity: 300cP.

VSP Series, Variable Speed—Adjust output via an internal knob that varies the motor speed. Adjustable from 13 to 100% of rated capacity. 8:1 turndown ratio.

Dolphin Series, 10-Min. Cycle Time—Adjust output via a solid state current interrupter that cycles power On and Off. Adjustable from 10 to 100% of rated capacity. 10:1 turndown ratio.

Replacement Tubes—Include 9"L Norprene tubing (diameter varies).

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
VSP Series—Variable Speed			
12.00 gpd	25 psi	UVSP12XRLLAUG19	**20LX55**
20.00 gpd		UVSP20XRLLAUXXX	**2P304**
Dolphin Series—10 Min. Cycle Time			
13.00 gpd	25 psi	UD10-XA-LSAUG19	**20LX53**
60.00 gpd		UD50-XA-LSAUXXX	**2P305**
97.00 gpd		UD75-XA-LSAUG19	**20LX54**
Replacement Tubes			
For 2P304	—	7013397	**1R422**

PULSAFEEDER
CHEM-TECH

Chemical Metering Pumps

- Self-priming to 4 ft.
- 115VAC

Compact, chemical-resistant pumps provide dependable metering performance. Degassing models have a degassing valve for use in off-gassing chemicals. All models have a sealed gearbox and eccentric cam for reliable dosing, easy flow rate control and turndown. Motorized-diaphragm technology provides long life even with continuous-duty cycles. 10:1 turndown ratio. PVC/polyethylene tubing with CSPE diaphragm, seals, and O-rings, except degassing models are hypalon. Max. viscosity: 300 cps, except 20 cps for degassing models. Include injection back pressure valve, bleed valve, foot valve strainer with weight, and tubing. ETL Listed.

No. 49AV26



Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
Adjustable Output Via Stroke Length			
3.00 gpd	100 psi	X003-XA-AAAAG19	**33M860**
7.00 gpd		X007-XA-AAAAG19	**33M886**
15.00 gpd		X015-XA-AAAAG19	**33M859**
24.00 gpd		X024-XA-AAAAG19	**49AV26**
30.00 gpd		X030-XA-AAAAG19	**33M861**
Degassing			
15.00 gpd	100 psi	X015-XA-BAA8-G19	**1AKE8**
30.00 gpd		X030-XA-BAA8-G19	**2YE50**

Peristaltic Metering Pumps

STENNER PUMPS

- Self-priming to 25 ft.
- Reproducibility: ±2%
- 120V

For injecting solutions into commercial swimming pools, spas, well water, municipal/industrial waste water, cooling tower/boiler water treatment, animal health, and various industrial water processing applications. Wet-end materials include Santoprene™, PVC, polypropylene, and polyethylene. Max. viscosity: 300cP. Include 20-ft. polyethylene tubing, spare tube, weighted strainer, and injection check valve (100 psi models) or injection fitting (25 psi models). UL Listed, CSA Certified, and conform to ANSI/NSF STD61. Adjustable and fixed rate pumps tested by ETL to conform to ANSI/NSF STD50.

Adjustable-Rate—Feed rate control adjusts from 5% to 100%. Snap-fit components ease disassembly/service. 20:1 turn down ratio.

Fixed-Rate—Can be used with ORP/pH controllers and with proportional metering systems. Include 20-ft. polyethylene tubing, 3 ferrules, 3 connecting nuts, weighted strainer, injector fitting, and spare tube.

Variable-Speed—Digital interface with multiple operation modes, plus analog and digital inputs/outputs with advanced programming, control, and construction. Have tube leak detection, brushless DC motor, and NEMA 4X rating. 100:1 turn down ratio.

Quick-Pro Pump Assemblies—Polycarbonate head with collapsible roller design permits quick, easy tool-free tube change. ¼" tubing connection. 1-pc. peristaltic pump tube construction for greater durability and long life.



No. 4NA14



No. 52XH65

Max. Flow Rate	Tubing Connec. (in.)	Max. Pressure	ADJUSTABLE Mfr. Model	ADJUSTABLE Item No.	FIXED RATE Mfr. Model	FIXED RATE Item No.	VARIABLE SPEED Mfr. Model	VARIABLE SPEED Item No.
Single Head								
3.00 gpd	¼	100 psi	—	—	45MFH1A1SUG1	**4VZG1**	—	—
5.00 gpd	¼	100 psi	85MJH1A1STG1	**4NA11**	85MFH1A1SUG1	**4VZG2**	S3001AA101NG1	**52XH64**
10.00 gpd	¼	100 psi	—	—	45MFH2A1SUG1	**4VZG3**	—	—
17.00 gpd	¼	100 psi	85MJH2A1STG1	**4NA12**	85MFH2A1SUG1	**4VZG4**	S3002AA101NG1	**52XH65**
40.00 gpd	¼	100 psi	85MJH7A1STG1	**4NA13**	85MFH7A1SUG1	**4VZG5**	S3007AA101NG1	**52XH66**
50.00 gpd	¼	25 psi	45MJL5A1STG1	**4NA14**	45MFL5A1SUG1	**4VZG6**	—	—
85.00 gpd	¼	25 psi	85MJL5A1STG1	**4NA15**	85MFL5A1SUG1	**4VZG7**	S3005AA101NG1	**52XH68**
Dual Head								
170.00 gpd	¼	25 psi	170JL5A1STG1	**4NA16**	—	—	—	—

Service Kits/Tubing—No. 4VZG8 provides a visual confirmation that fluid is pumping when used with ¼" O.D. polyethylene discharge tubing.

No. 4VZG9 has 4 settings to operate pump when used in conjunction with a dry contact water meter.

Chemical Solution Tanks—Translucent polyethylene tanks have a large fill opening, spill containment basin, and level indicators. Include mounting hardware. Compatible with all single-head Stenner® pump models.

Tank Mixers—Encapsulated impeller design enhances safety and eliminates dead spots around tank perimeter. For applications that mix powdered or granular solids into aqueous solutions or viscous liquids. Must be used with matching size Stenner tank. Tank-mounted and secured with safety screws. 6-ft. power cord. Rated for indoor use only. Not for swimming pool or marine use. UL and C-UL Listed.

- Max 3600 rpm
- 1/30-HP motor; 115V/60Hz

For Use With	Includes	Mfr. Model	Item No.
Replacement Tube Kits			
For Use With 4NA11, 4VZG1, 4VZG2, 4NA17, 4NA21, 52XH64	(2) ¼" Santoprene Tubes, (4) Ferrules, (2) Duckbills	UCCP1FD	**4NA25**
For Use With 4NA12, 4VZG3, 4VZG4, 4NA18, 4NA22, 52XH65		UCCP2FD	**4NA26**
For Use With 4NA14, 4NA15, 4NA16, 4VZG6, 4VZG7, 4NA24, 4NA20, 12L291, 52XH68		UCCP205	**4NA27**
For Use With 4NA13, 4VZG5, 4NA19, 4NA23, 12L292,, 52XH66		UCCP7FD	**4NA28**
Quick-Pro Pump Assemblies			
For Use With 4NA11, 4NA17, 4NA21, 4VZG1, 4VZG2	Santoprene® Pump Tube, Duckbills, Ferrules - ¼"	QP101-1G1	**13G534**
For Use With 4NA12, 4VZG3, 4VZG4, 4NA18, 4NA22		QP102-1G1	**13G535**
For Use With 4NA14, 4NA15, 4VZG6, 4VZG7, 4NA24, 4NA20, 12L291	Santoprene® Pump Tube, Ferrules - ¼"	QP255-1G1	**13G536**
For Use With 4NA13, 4VZG5, 4NA19, 4NA23, 12L292	Santoprene® Pump Tube, Duckbills, Ferrules - ¼"	QP107-1G1	**13G537**
Quick-Pro Pump Head Service Kits			
For Use With 52XH64	Pump Tube, Roller Assembly, Connecting Nuts, Ferrules, Latches	S3101K	**52XH76**
For Use With 52XH65		S3102K	**52XH77**
For Use With 52XH66		S3107K	**52XH78**
For Use With 52XH68		S3105K	**52XH80**

Description	Includes	Mfr. Model	Item No.
Service Kits/Tubing			
Feed Rate Control Service Kit	1 Lifter, 1 Index Plate, 1 oz. Tube of Aqua Shield®, 3 FRC Screw A, 1 Variable Cam	FSK100	**2MWF4**
Gear Case Service Kit, 45 and 100 Series	Metal Reduction Gear, 1 oz. Tube of Aqua Shield®, Phenolic Gear with Spacer, Motor Shaft with Gear, 4 Cover Screw B, 2 Gear Posts	GSK45A	**2MWF5**
Gear Case Service Kit, 85 and 170 Series		GSK85A	**2MWF6**
Motor Service Kit 120v/60Hz	2 Wire Nuts, Coil, 2 Coil Screw G with Lock Washer, Coil Ground Screw E, Rotor Assembly with Bearings, Brackets, Tolerance Rings and Fan	MSK120	**2MWF7**
Tubing, Polyethylene, 20'	Stenner Suction/Discharge Tubing, 20 ft., ¼" O.D.	AK4002W	**2MWF3**
Flow Indicator	Flow Indicator, Polymethylmethacrylate, Tubing Connection - ¼", Max Flow 85 gpd, Max Pressure 100 psi, Vertical Mounting	AK600	**4VZG8**
Pump Control Module	—	PCM5	**4VZG9**

Tank (gal.)	Tubing Connec. (in.)	Mfr. Model	Item No.
Chemical Solution Tanks			
7.5	¼	STS7N-02G1	**3CCR6**
15	¼	STS15N-02G1	**1DLW8**
30	¼	STS30N-02G1	**1DLW9**

Size	For Use With	L (in.)	Mfr. Model	Item No.
Tank Mixers				
7½ gal.	3CCR6	7	SMS75AG1	**19H372**
15 gal.	1DLW8	12½	SMS15AG1	**19H373**
30 gal.	1DLW9	24½	SMS30AG1	**19H374**

General Purpose Metering Pumps

STENNER PUMPS

- Self-priming to 25 ft.
- 120VAC, except Nos. 481H74 and 481H75 are 115VAC

Compact, adjustable, and feature an innovative "Quick-Release" head for simple and fast tube change. Santoprene™ peristaltic tubing is FDA-approved and requires no adjustment or lubrication. Ideal for light-duty applications such as injecting chlorine, weak acids, and alkaline solutions. Max. viscosity: 100cP. Accessories included. Pump Tube Replacement Kits include 2 Santoprene tubes and 4 ferrules. Pumps are UL and C-UL Listed.



No. 35PF94

Max. Flow (gpd)	Max. Pressure	Mfr. Model	Item No.
Econ VX Series, Peristaltic Metering Pumps			
7.40 gpd	25 psi	E10VXAA1S6G1	**35PF94**
14.00 gpd	25 psi	E10VXBA1S6G1	**35PF95**
14.00 gpd	80 psi	E10VXHA1S6	**481H74**
23.50 gpd	80 psi	E20VXHA1S6G1	**481H75**
24.80 gpd	25 psi	E20VXBA1S6G1	**35PF96**
38.80 gpd	25 psi	E20VXCA1S6G1	**35PF97**
Pump Tube Replacement Kits			
For Use With No. 35PF94		EC30A-2G1	**35PF98**
For Use With No. 35PF95, 35PF96		EC30B-2G1	**35PF99**
For Use With No. 35PF97		EC30C-2G1	**35PG01**

Peristaltic Livestock Medicator Pumps

STENNER PUMPS

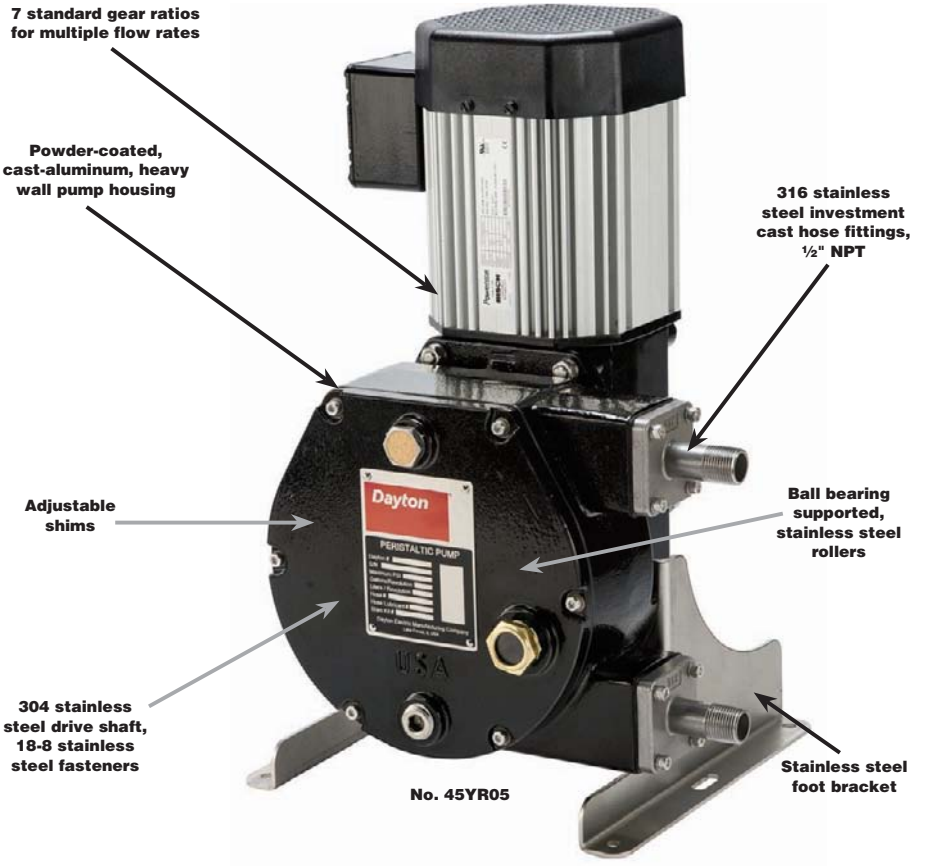
- Self-priming up to 25 ft.
- 1:128 injection ratio
- 120V

Suitable for injecting solutions such as disinfectants, medications, nutrients, and sanitizers into water for treating livestock. Injection is directly into the water line so the solution does not contact any moving parts and avoids fouling and water flow restrictions. Polycarbonate body with Buna N seals and O-rings. Pumps have adjustable pulse rate settings and can connect to an existing pulse water meter. No. 33TH67 includes 3 connecting nuts, 3 ferrules, injection check valve, weighted suction line strainer, 20-ft. Santoprene™ tubing, and spare pump tube.



No. 33TH67

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.	Replacement Tube Kits Item No.
Econ Stennicator				
2.7 oz/min	80 psi	E20MH81S6G1	**33TH67**	**33TH68**
M128				
3.5 oz/min	100 psi	M071JG1	**45YU14**	**4NA28**
8.4 oz/min	25 psi	M051JG1	**45YU13**	**4NA27**



No. 45YR05

Dayton

Peristaltic Chemical Metering Pumps

- Max. pressure: 125 psi
- Self-priming to 30 ft.

Durable, cast-aluminum pumps can handle abrasive slurries and aggressive chemicals in most metering, dosing, and transfer applications. No moving parts come into contact with the chemical being metered. Feature stainless steel rollers supported by sealed ball bearings that compress the hose in a more efficient design than frictional shoe-type pumps. Models are positive displacement-style that require no valves to operate and have a stainless steel drive shaft, foot bracket, hardware, and hose fittings for long life. The premium, heat-treated and ground hypoid gearing provides greater efficiency and more reliable performance. The gear motor includes a hollow shaft that allows you to remove the roller assembly if required. Pumps are reversible and can be used to clear blocked lines. Include shim kit and hose lubricant. Hardwired installation required. UL and C-UL Listed, CE Certified.

WARNING: Use only with nonflammable liquids compatible with pump component materials and in nonflammable/nonexplosive atmospheres.

Flow Rate	Tubing Material	Pump RPM	115V, 1 Phase Item No.	115/230V, 1 Phase Item No.	230V, 3 Phase Item No.	230/460V, 3 Phase Item No.
Pumps						
0.16 gpm/0.60Lpm	EPDM	17	**45YR05**	**45YR26**	**45YR47**	**45YR68**
0.20 gpm/0.80Lpm		21	**45YR04**	**45YR25**	**45YR46**	**45YR67**
0.27 gpm/1.00Lpm		28	**45YR03**	**45YR24**	**45YR45**	**45YR66**
0.32 gpm/1.20Lpm		34	**45YR02**	**45YR23**	**45YR44**	**45YR65**
0.40 gpm/1.50Lpm		42	**45YR01**	**45YR22**	**45YR43**	**45YR64**
0.53 gpm/2.00Lpm		56	**45YP99**	**45YR21**	**45YR42**	**45YR63**
0.80 gpm/3.00Lpm		84	**45YP98**	**45YR20**	**45YR41**	**45YR62**
0.16 gpm/0.60Lpm	Nitrile	17	**45YP97**	**45YR19**	**45YR40**	**45YR61**
0.20 gpm/0.80Lpm		21	**45YP96**	**45YR18**	**45YR39**	**45YR60**
0.27 gpm/1.00Lpm		28	**45YP95**	**45YR17**	**45YR38**	**45YR59**
0.32 gpm/1.20Lpm		34	**45YP94**	**45YR16**	**45YR37**	**45YR58**
0.40 gpm/1.50Lpm		42	**45YP93**	**45YR15**	**45YR36**	**45YR57**
0.53 gpm/2.00Lpm		56	**45YP92**	**45YR14**	**45YR35**	**45YR56**
0.80 gpm/3.00Lpm		84	**45YP91**	**45YR13**	**45YR34**	**45YR55**

Flow Rate	Tubing Material	Pump RPM	115V, 1 Phase Item No.	115/230V, 1 Phase Item No.	230V, 3 Phase Item No.	230/460V, 3 Phase Item No.
0.16 gpm/0.60Lpm	Rubber	17	**45YP90**	**45YR12**	**45YR33**	**45YR54**
0.20 gpm/0.80Lpm		21	**45YP89**	**45YR11**	**45YR32**	**45YR53**
0.27 gpm/1.00Lpm		28	**45YP88**	**45YR10**	**45YR31**	**45YR52**
0.32 gpm/1.20Lpm		34	**45YP87**	**45YR09**	**45YR30**	**45YR51**
0.40 gpm/1.50Lpm		42	**45YP86**	**45YR08**	**45YR29**	**45YR50**
0.53 gpm/2.00Lpm		56	**45YP85**	**45YR07**	**45YR28**	**45YR49**
0.80 gpm/3.00Lpm		84	**45YP84**	**45YR06**	**45YR27**	**45YR48**

Description	Includes	Material of Construc.	Item No.
Accessories			
Hose	(2) Hose Clamps	Natural Rubber	**45YP79**
Hose	(2) Hose Clamps	Buna Nitrile	**45YP80**
Hose	(2) Hose Clamps	EPDM	**45YP81**
Lubricant, 0.25 Gal.	—	Glycerin	**45YP82**
Shim Kit	—	Stainless Steel	**45YP83**



No. 5JKF8



No. 38L996

Laing Thermotech

Plastic-Body Permanent Magnet Circulator Pumps

- 1-phase
- 60/50 Hz, continuous-duty motor

Small footprint and lightweight construction allow easy installation for water circulation and liquid transfer. Semiopen impeller. Ceramic bearing system. Each includes a 4-ft. power cord.

NORYL®

Have a shaftless, sealless electronically commutated motor (ECM). Energy-efficient ECM/permanent magnet technology saves up to 68% on electricity. Noryl impeller. Nos. 5JKG2 and 5JKG6 max. working pressure: 50 psi; 100-240V. No. 5JKF8 max. working pressure: 29 psi; 115V.

NORYL/ALUMINUM

Pump motor has a stainless steel shaft and screw, with EPDM O-ring seal. Nylon and 316 stainless steel impeller. Max. working pressure: 29 psi. 115V.

HP	Amps	Inlet	Outlet	GPM of Water @ Total Ft. of Head+ 5	10	15	20	Max. Head	L	W	Max. Liquid Temp.	Item No.
Noryl												
1/25	0.24	¾ HB	¾" HB	2	—	—	—	13 ft.	6"	3"	140°F	**5JKG2**
1/25	0.40	¾" HB	¾" HB	—	5.8	—	—	14 ft.	6"	3"	140°F	**5JKG6**
1/25	0.6	¾ HB	¾" HB	10.1	7.3	4.6	1.8	22.5 ft.	6"	4 5/16"	140°F	**5JKF8**
Noryl/Aluminum												
1/25	0.52	¾" HB	¾" HB	10.5	8.2	5	—	18.7 ft.	6"	4 5/16"	140°F	**38L995**
1/25	0.56	¾" T	¾" T	10	8	5.5	—	18.7 ft.	6"	4 5/16"	140°F	**38L996**

+ To convert to psi, divide total feet of head by 2.31.

Electric-Operated Diaphragm Pumps

FLOJET

- Polypropylene housing
- Sealed motor with run-dry capability

12VDC, WATER-BASED

Permanent magnet ball-bearing motors.

Automatic Demand Pumps—Max. water temp.: 160°F. Meet U.S. Coast Guard (USCG) electrical standards.

Complete Water System—Includes pump and precharged 1-gal. pressurized bladder tank with air valve. FDA-approved materials.

Washdown Pump—Meets USC electrical standards.

Water System Pump—NSF Certified for potable water.

Water System Pump with Valve—Features quick-disconnect plug-in ports, built-in bypass valve, and pressure switch.

12VDC, PETROLEUM-BASED

Suitable for liquid transfer, dewatering circulation, oil changing (warm), and diesel fuel transfer. Meet USCG, ISO 8846 for diesel fuel transfer.

115VAC, WATER- AND PETROLEUM-BASED

Sealed pressure demand switch. UL Listed, UL Recognized, CSA Certified.

INLINE STRAINERS

Recommended for freshwater applications.

Pipe Size	Connec. Type	Flow Rate	Mfr. Model	Item No.
Inline Strainers				
⅜"	Barb	2 gpm	01740003G	**4YD31**
⅜"	NPT	2 gpm	01740375G	**4YD36**
½"	Barb	4 gpm	01740002G	**4YD30**
½"	NPT	4 gpm	01740004G	**4YD32**
¾"	Barb	7 gpm	01740000G	**4YD29**



No. 4YD42

Description	Inlet/ Outlet	Flow	Pressure On	Pressure Off	Max. Pressure	Diaphragm Material	Mfr. Model	Item No.
12VDC, Water-Based Applications								
Automatic Demand Pump	⅜" HB	1 gpm	25	35	35 psi	Santoprene	LFP122201K	**4YD54**
	⅜" FNPT	2.3 gpm	20	30	30 psi		02100-12C	**2P366**
	⅜" HB	2.9 gpm	30	50	50 psi		R3526144A	**2XE90**
Complete Water System	¾" HB	4.5 gpm	30	40	40 psi		02840100G	**4YD37**
Washdown Pump	¾"	4.5 gpm	30	40	40 psi		04325143S	**4YD42**
Water System Pump	⅜" HB	1 gpm	25	35	35 psi		LFP122202K	**4YD55**
Water System Pump w/Valve	½" HB	3.3 gpm	25	35	35 psi		04405143S	**4YD43**
12VDC, Petroleum-Based Applications								
Bilge/Sump Pump	¾"	5 gpm	—	—	25 psi	Geolast	04125114G	**4YD39**
General-Purpose Pump	¾"	3.3 gpm	—	—	25 psi		04105501G	**4YD38**
	¾"	5 gpm	—	—	25 psi		04125502G	**4YD40**
115VAC, Water-Based Applications								
Automatic Demand Pump	⅜" FNPT	2 gpm	40	60	60 psi	Buna	D3835B5011A	**2XE93**
	⅜" FNPT	2 gpm	40	60	60 psi	EPDM	D3835H5011A	**2XE94**
	⅜" FNPT	2 gpm	40	60	60 psi	Viton	D3835V5011A	**2XE91**
	⅜" FNPT	2 gpm	80	100	100 psi	EPDM	D3835E7011A	**2XE92**
General-Purpose Demand Pump	½" HB	3.5 gpm	30	45	45 psi	Santoprene	04300501G	**4YD41**
1 Gallon Water Boost System	⅜" HB	1.5 gpm	40 to 60	87	95 psi		028300510	**49EK26**

Centrifugal and Positive Displacement Pumps

Dayton® MEZIERE INDUSTRIAL

Dayton®, Centrifugal—Pumps are suitable for use in liquid transfer and irrigation. They have semiopen impellers and are not self-priming, except No. 5PXX5 is self-priming up to 4.5 ft.

Ports for Nos. 5PXW8 to 5PXX1 and 5PXX4 can be rotated in 180° increments, No. 5PXX5 in 90° increments. No. 5PXX3 has a totally enclosed fan-cooled (TEFC), capacitor-start induction motor.

- Intermittent duty, except No. 5PXX3 is continuous
- ⅛ HP

Meziere, Centrifugal and Positive Displacement—Centrifugal models are suitable for use with 50% water/glycol mix. Designed to provide high flow at low head pressure. Brush motor is housed in open dripproof (ODP) enclosure.

No. 21C949 Positive Displacement Pump has a preset pressure relief valve, steel gerotor, and double-lip seal. Suitable for use with Dexron® II or equivalent oil.

- Continuous duty
- 5⁄16 HP, except No. 21C952 is ⅕ HP



No. 5PXX0

Voltage	Inlet	GPM of Water @ 0 ft. of Head	Max. Head	Max. Liquid Temp.	L	H	Impeller Material	Seal Material	Housing Material	Mfr. Model	Item No.
Dayton, Centrifugal											
12V DC	¾ in NPT	13	17 ft.	180°F	7⅛"	3⅜"	Brass	Carbon/Ceramic, Viton, Stainless Steel	Brass	5PXX4	**5PXX4**
	¾ in NPT	19	14 ft.	180°F	9⅜"	5"	Brass	Carbon/Ceramic, Viton, Stainless Steel	Brass	5PXX5	**5PXX5**
	¾ in NPT	13	17 ft.	180°F	7⅛"	3⅜"	Stainless Steel	Carbon/Ceramic, Viton, Stainless Steel	Stainless Steel	5PXX0	**5PXX0**
24V DC	¾ in NPT	13	17 ft.	180°F	7⅛"	3⅜"	Brass	Carbon/Ceramic, Viton, Stainless Steel	Brass	5PXW8	**5PXW8**
	¾ in NPT	13	17 ft.	180°F	7⅛"	3⅜"	Stainless Steel	Carbon/Ceramic, Viton, Stainless Steel	Stainless Steel	5PXX1	**5PXX1**
36V DC	¾ in NPT	13	17 ft.	180°F	7⅛"	3⅜"	Brass	Carbon/Ceramic, Viton, Stainless Steel	Brass	5PXW9	**5PXW9**
115V AC	¾ in NPT	9	14.5 ft.	180°F	10"	6⅝"	Brass	Carbon/Ceramic, Viton, Stainless Steel	Brass	5PXX3	**5PXX3**
Meziere, Centrifugal											
12V DC	¾ in NPT	25	12.4 ft.	250°F	3 11⁄16"	7 3⁄16"	Aluminum	Carbon/Ceramic	Aluminum	WPX750	**21C952**
	1 ½ in NPT	55	12.2 ft.	250°F	4⅛"	6 5⁄16"	Aluminum	Carbon/Ceramic	Aluminum	WPX753	**21C954**
		55	12.2 ft.	250°F	4⅛"	6 5⁄16"	Aluminum	Carbon/Ceramic	Aluminum	WPX755	**21C955**
Meziere, Positive Displacement, 2 Stage											
12V DC	⅜ in NPT	2.05	92 ft.	185°F	4"	5 5⁄16"	Steel	Viton	Aluminum	WPX702	**21C949**

Hose Inside Dia. (in.)	Connec. Size	Max. Pressure	For Use With	Brand	Mfr. Model	Item No.
Hose Adapter						
1	1" NPT	100	21C953	Meziere	WPX807	**21C962**
1¼	1½" NPT	100	Mfr. No. WPX752, WPX753, WPX755	Meziere	WPX815	**21C970**

Evaporative Cooler/Machine Coolant Pumps

LittleGIANT Dayton®

EVAPORATIVE COOLER PUMPS

Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

Polystyrene—Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

- Max. temp.: 122°F
- Max. viscosity: 50 SSU
- 3000 rpm motors

Brass/Bronze—Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

- Max. temp.: 200°F
- Max. viscosity: 500 SSU
- 1725 rpm TEFC motors
- Brass pump body, bronze impeller

HP	Voltage	Motor Type*	Cord (ft.)	CFM	Inlet Outlet (in.)	GPM of Water @ ft. of Head 1	3	5	9	12	Shut-Off (ft.)	L (in.)	H (in.)	Max. Immersion Depth (in.)	Brand	Mfr. Model	Item No.
Evaporative Cooler Pump, Polystyrene																	
1⁄70	115	Shaded Pole	4	5000-7500	½, ⅜, ¾	5.1	4.4	3.5	0.66	—	9.5	4¼	9	4	Little Giant	CP1-115	**3CB58**
	230		4	5000-7500	½, ⅜, ¾	5.1	4.4	3.5	0.66	—	9.5	4¼	9	4	Little Giant	CP1-230	**3CB59**
1⁄50	115		4	7500-15,000	⅜, ¾	8.3	7.3	6.1	2.91	—	11	4¼	9	4	Little Giant	CP2-115	**3CB60**
	230		4	7500-15,000	⅜, ¾	8.3	7.3	6.1	2.91	—	11	4¼	9	4	Little Giant	CP2-230	**3CB61**
1⁄30	115		4	15,000-21,000	⅜, ¾	9.3	8.5	7.6	4.78	—	12	4¼	9	4	Little Giant	CP3-115	**4NY30**
	230		4	15,000-21,000	⅜, ¾	9.3	8.5	7.6	4.78	—	12	4¼	9	4	Little Giant	CP3-230	**4NY31**
Evaporative Cooler and Coolant Pump, Brass/Bronze																	
1⁄25	115	PSC	3	—	⅜	7.1	6.6	5.5	—	—	7.8	5¼	12⅜	6	Dayton	—	**4JPG4**
	230		3	—	⅜	7.1	6.6	5.5	—	—	7.8	5¼	12⅜	6	Dayton	—	**4JPG5**
Coolant Pump, Cast-Iron																	
⅛	115/230	PSC	—	—	¾	12.5	11.3	9.8	4.6	—	10	5 13⁄16	14 1⁄16	6⅜	Dayton	—	**4JPH3**
	230		—	—	¾	12.5	11.3	9.8	4.6	—	10	5 13⁄16	14 1⁄16	6⅜	Dayton	—	**4JPH4**
¼	230/460		—	—	1¼	55.5	54	52	45.5	38.2	18	11	21 7⁄16	8¼	Dayton	—	**4JPG9**
⅓	230/460	3 Phase	—	—	1¼	57.6	56	54	47.3	41	21.3	11	19 7⁄16	6⅜	Dayton	—	**4JPG7**
½	230/460		—	—	1½	74	72.3	70.3	64.8	59.3	26.2	11 13⁄16	25 1⁄16	12¼	Dayton	—	**4JPH8**
¾	230/460		—	—	1½	83.5	82	80.2	74.7	68.7	27.9	11 13⁄16	25 1⁄16	12¼	Dayton	—	**4JPH6**
Mounting Bracket																	
For Use With 4JPG6 to 4JPG9, 4JPH5 to 4JPH8															Dayton	—	**4JPH1**
For Use With 4JPH3, 4JPH4															Dayton	—	**4JPH2**

** PSC = permanent split capacitor.*

COOLANT PUMPS, CAST IRON

- Max. temp.: 200°F
- Max. viscosity: 500 SSU
- 1750 rpm, TEFC motors
- 304 stainless steel impeller, carbon steel shaft (Nos. 4JPH3 and 4JPH4 have stainless steel shaft)

Used for machining lubricants, coolants, flushing, and circulation. Mounting brackets (sold separately) clamp to pump column at desired position for optimal pump depth.



No. 3CB58



Suction
No. 3P726



Suction
No. 3GRU6



Immersion
No. 3P744



Immersion
No. 3GRV5

Fuji Electric e-Front runners

Dayton

Coolant Pumps

- 3450 rpm motors
- Cast-iron bodies and volutes

Circulate coolant and spray cutting oil. Replacement filters on Grainger.com®, search for coolant pump filters and cartridges.

SUCTION

Mount above liquid level in all locations. Pumps require initial priming. Feature mechanical seals with carbon/ceramic shaft seal, Buna N elastomers, and steel springs. For all types of machines, except grinders.

Fuji—For use with cutting oil only. Install where ambient temp. range is -0°C to 40°C. For indoor use only.
- Max. fluid temp.: 104°F
- Max. viscosity: 340 SSU
- Max. suction lift: 2.3 ft.

Dayton®—Mount pump upright only. Pump motor is not designed for immersion in liquid.
- Max. fluid temp.: 180°F
- Max. viscosity: 500 SSU
- Max. suction lift: 2 ft.

IMMERSION
- No bearings, seals, or packing
- Have outlets only

Ideal for pumping liquids with fine contaminants and can be run dry. For all types of machines, including grinders, and for applications with higher temperatures.

Fuji—For use with cutting oil only. Install where ambient temp. range is -20°C to 40°C.
- Max. fluid temp.: 200°F
- Max. viscosity: 683 SSU

Dayton®—Pump motor is not suitable for immersion in liquid. Mount pump upright only.
- Max. fluid temp.: 180°F
- Max. viscosity: 500 SSU

HP	Phase	Voltage	Amps	Impeller Material*	Inlet/ Outlet (in.)	GPM of Water @ Total ft. of Head 5	10	15	20	30	40	Shut-Off (ft.)	L (in.)	H (in.)	Max. Immersion Depth (in.)	Bolt Circle Dia. (in.)	Brand	Mfr. Model	Item No.
Suction																			
1/20	3	230/460	0.27/0.135	Plastic	1/4	7.2	5.9	3.8	—	—	—	19	7 1/4	7 3/16	—	5.11	Fuji Electric	VKN-043A-4Z	**3P726**
1/12	3	230/460	0.35/0.175	CB	3/8	8.3	5.9	4.7	—	—	—	19	8 3/8	8 1/8	—	5.2	Fuji Electric	VKN-053A-4Z	**3P727**
1/8	3	230/460	0.50/0.25	CB	3/8	17.1	14.4	10.6	—	—	—	21	8 3/8	8 1/8	—	5.2	Fuji Electric	VKN-063A-4Z	**3P728**
1/8	1	115/230	.7/.35	Plastic	3/8	8	5	—	—	—	—	13	5 1/2	6 7/8	—	5.5	Dayton	3GRU6	**3GRU6**
1/8	3	230/460	.32/.19	Plastic	3/8	8	5	—	—	—	—	13	5 1/2	6 7/8	—	5.5	Dayton	3GRU7	**3GRU7**
1/4	3	230/460	1/0.5	CB	1/2	—	32	28.5	22	11	—	34	9 1/8	9 1/16	—	6.3	Fuji Electric	VKN-073A-4Z	**3P741**
1/4	1	115/230	3.0/1.5	Plastic	3/4	20	20	17	14	5	—	32	7 3/8	9	—	7.25	Dayton	3GRU8	**3GRU8**
1/4	3	230/460	.8/.4	Plastic	3/4	20	20	17	14	5	—	32	7 3/8	9	—	7.25	Dayton	3GRU9	**3GRU9**
1/3	3	230/460	1.5/0.75	Plastic	3/4	54	47	36	28.5	20	—	34	9 5/8	9 5/8	—	6.3	Fuji Electric	VKN-083A-4Z	**3P742**
1/2	3	230/460	2.4/1.2	CB	1	62	59	55	51	40.5	—	40	12 1/4	12 7/16	—	7.09	Fuji Electric	VKN-093A-4Z	**3P743**
1/2	1	115/230	5/2.5	AL	3/4	32	32	30	26	18	5	42	7 3/16	12 1/4	—	8.06	Dayton	3GRV1	**3GRV1**
1/2	3	230/460	1.8/1.2	AL	3/4	32	32	30	26	18	5	42	7 3/8	12 1/4	—	8.06	Dayton	3GRV2	**3GRV2**
3/4	3	230/460	2.6/1.6	AL	1	43	43	43	43	35	25	55	8	12 1/4	—	8.62	Dayton	3GRV3	**3GRV3**
1	3	230/460	3.2/1.9	AL	1	48	48	48	48	40	30	60	8	14	—	8.62	Dayton	3GRV4	**3GRV4**
Immersion																			
1/20	3	230/460	0.27/0.135	CB	1/4	7.2	5.9	3.8	—	—	—	19	11 3/4	11 3/4	5 7/8	5.12	Fuji Electric	VKP-043A-4Z	**3P744**
1/12	3	230/460	0.35/0.175	CB	3/8	8.3	5.9	4.7	—	—	—	19	12 1/4	12 1/4	6	2 at 5.12 and 2 at 5.2	Fuji Electric	VKP-053A-4Z	**3P745**
1/8	3	230/460	0.50/0.25	CB	3/8	17.1	14.4	10.6	—	—	—	21	12 1/4	12 1/4	5 7/8	2 at 5.2 and 2 at 5.28	Fuji Electric	VKP-063A-4Z	**3P746**
1/8	1	115/230	.7/.35	Plastic	3/8	9	5	—	—	—	—	13	3 1/2	11 3/4	6	5	Dayton	3GRV5	**3GRV5**
1/8	3	230/460	.32/.19	Plastic	3/8	9	5	—	—	—	—	13	3 1/2	11 3/4	6	5	Dayton	3GRV6	**3GRV6**
1/4	3	230/460	1/0.5	Plastic	1/2	—	32	28.5	22	11	—	34	14 1/4	14 7/32	7	2 at 6.3 and 2 at 5.28	Fuji Electric	VKP-073A-4Z	**3P747**
1/4	1	115/230	3.0/1.5	Plastic	1/2	20	20	17	14	5	—	32	5	14 7/8	7	6.37	Dayton	3GRV7	**3GRV7**
1/4	3	230/460	.8/.4	Plastic	1/2	20	20	17	14	5	—	32	5	14 7/8"	7	6.37	Dayton	3GRV8	**3GRV8**
1/3	3	230/460	1.5/0.75	CB	3/4	54	47	36	28.5	20	—	34	17 7/16	17 7/16	9 7/8	2 at 6.3 and 2 at 6.69	Fuji Electric	VKP-083A-4Z	**3P748**
1/2	3	230/460	2.4/1.2	CB	1	62	59	55	51	40.5	24	40	21 45/64	21 3/4	11	7.09	Fuji Electric	VKP-093A-4Z	**3P749**
1/2	1	115/230	5/2.5	AL	3/4	35	35	30	26	18	5	42	5 3/8	18 3/4	9 1/2	6.75	Dayton	3GRV9	**3GRV9**
1/2	3	230/460	1.8/1.2	AL	3/4	35	35	30	26	18	5	42	5 3/8	18 3/4	9 1/2	6.75	Dayton	3GRW1	**3GRW1**
3/4	3	230/460	2.6/1.6	AL	1	45	45	45	43	35	25	55	6	20 1/2	11	7.83	Dayton	3GRW2	**3GRW2**
1	3	230/460	3.2/1.9	AL	1	50	50	50	48	40	30	60	6	21 7/8	11	7.83	Dayton	3GRW3	**3GRW3**

** AL = Aluminum, CB = Cast Bronze.*



No.
2P345



No.
7P078

LittleGIANT

Machine Coolant Tanks and Pump/ Tank Combinations

For use on small drill presses, tool grinders, tapping machines, cut-off saws, and small lathes.

Tanks—Include chip collector baffle, flex nozzle, and brass control valve. 5-gal. tank is polyethylene and includes 6-ft. plastic hose. 10-gal. tank is steel and has 4-ft. neoprene hose with brass nuts and deflector plate. Pump not included.

Polyethylene Pump/Tank Combinations—Flexible discharge hose has flow control valve. Removable screen and chip collector.
- Max. temp.: 120°F

HP	Volts	Amps	Inlet/ Outlet (in.)	Tank (gal.)	GPM of Water @ Total ft. of Head 1	3	5	10	Shut-Off (ft.)	Dim. (in.) L	W	H	Item No.
Tanks													
—	—	—	—	5	—	—	—	—	—	11	15 1/2	8	**2P344**
—	—	—	—	10	—	—	—	—	—	10	25	11 3/8	**2P345**
Polyethylene Pump/Tank Combinations													
1/150	115	1.1	1/4	5	3.4	2.8	2	—	7.5	11	15 1/2	8	**7P078**
1/150	115	1.1	1/4	5	3.5	3	2.5	0.2	10.1	11	15 1/2	8	**7P079**
1/50	115V	1	1/4	1	1.7	1.4	1.3	—	14	12	6	9 3/8	**41A082**
1/40	115	1.7	1/4	5	5.4	5	4.5	—	12.3	11	15 1/2	8	**7P080**
1/15	115	3.2	1/2	5	8.3	7.25	5.6	3.5	17.3	11	15 1/2	8	**7P081**
1/15	115	3.2	1/2	10	8.3	7.25	5.6	3.5	17.3	10	25	11 3/8	**7P083**
1/6	115	5	1	10	21	20	18	17	26	10	25	11 3/8	**7P084**

Dayton

Intermittent-Duty Roller Pumps

- 4-roller models are coupled to a 12VDC motor
- Self-priming suction lift up to 3-ft. head
- Max. fluid temp.: 140°F
- ¾" FNPT inlet and outlet side ports

Pumps are designed for agricultural and lawn/garden chemical spraying, as well as various chemical transfer applications with nonflammable liquids, such as liquid fertilizers, insecticides, herbicides, and soil fumigants. They won't swell in water and they maintain performance with chemical carriers such as xylene. Counterclockwise pump rotation (facing pump shaft) can be easily reversed for gas engine drivers. (Gas engines must be gear-reduced or belt-driven down to desired pump speed.) Ni-Resist alloy offers better corrosion resistance than cast iron, while SilverCast™ custom alloy provides corrosion resistance with harsh chemicals such as herbicides.

All pumps have Super Rollers, Viton® shaft seals, and double-sealed, heavy-duty ball bearings. 4-roller models also include drivers. 6- and 8-roller models adapt to tractor power take-offs. Nos. 3YB55 and 3YB56 have polypropylene rollers. PTO quick couplings are sold separately on Grainger.com®.



4-Roller
No. 3YB60



6-Roller
No. 3YB42

ROLLER KITS

Roller replacement kits are for intermittent-duty roller pumps listed on this page. Include rollers, 2 Viton® shaft seals, and one O-ring for end plate.

For Use With	Rollers	Type	Item No.
Roller Kits			
3YB60, 3YB61	4	Super Roller	**3YB59**
3YB42, 3YB55	6	Super Roller	**3YB40**
3YB43, 3YB44, 3YB56	8	Super Roller	**3YB41**
3YB42, 3YB55	6	Polypropylene	**3YB57**
3YB43, 3YB44, 3YB56	8	Polypropylene	**3YB58**

		Performance with Water @ Required Amps																		
		0 psi		10 psi		15 psi		25 psi		35 psi		45 psi		50 psi		L	W	H	Housing	Item
Type	Voltage	gpm	amps	gpm	amps	gpm	amps	gpm	amps	gpm	HP	gpm	HP	gpm	HP	(in.)	(in.)	(in.)	Material	No.
4-Roller	12VDC (Battery) Engine Off	6.3	10.0	5.8	12.5	5.6	13.7	5.2	16.7	4.8	20.3	4.4	24.1	4.2	25.7	12	5	5	Ni-Resist	**3YB60**
4-Roller	13.5VDC (Alternator) Engine Running	7.5	10.4	6.6	13.0	6.4	14.2	6.0	17.4	5.6	20.9	5.2	24.3	5.0	26.1	12	5	5	Silver Cast	**3YB61**

		Performance with Water @ Required Motor HP																
		0 psi		50 psi		100 psi		200 psi		300 psi		L	W	H	Shaft	Housing	Item
Type	RPM	gpm	HP	gpm	HP	gpm	HP	gpm	HP	gpm	HP	(in.)	(in.)	(in.)	Dia. (in.)	Material	No.
6-Roller	540	9.7	0.08	8.0	0.38	7.2	0.68	5.6	1.29	4.3	1.91	5 1/32	6	5 1/32	5/8	Cast-Iron	**3YB42**
	800	14.5	0.13	12.7	0.55	12.0	0.98	10.5	1.86	9.1	2.77					Silver Cast	**3YB55**
	1200	21.8	0.30	20.1	0.90	19.1	1.51	17.3	2.84	15.7	4.17						
8-Roller	540	12.0	0.33	11.1	0.74	10.3	1.25	8.6	2.26	7.1	3.30	6 13/16	6 5/8	5 15/16	15/16	Cast-Iron	**3YB43**
	800	18.3	0.89	17.5	1.26	16.9	1.95	15.5	3.40	13.7	4.90					Ni-Resist	**3YB44**
	1000	22.5	1.56	22.0	1.78	21.3	2.53	20.0	4.2	18.0	6.10					Silver Cast	**3YB56**

			HP Required @ Various Pressure (psi)*														
Flow Capacity (gpm)	RPM	500	1000	1500	2000	2500	3000	3500	4000	5000	Shaft Dia.	Inlet Port	Discharge Port	L (in.)	W (in.)	H (in.)	Brand	Item No.
Belt-Drive, Electric Motor or Gasoline Engine																		
2.5	1750	0.9	1.7	2.6	3.4	4.3	—	—	—	—	24 mm	½" F	⅜" F	7.2	7.9	4.9	Dayton	**4WXW6**
3	1750	1.0	2.1	3.1	4.1	5.1	—	—	—	—	24 mm	½" F	⅜" F	7.2	7.9	4.9	Dayton	**4WXV7**
3.5	1750	1.2	2.4	3.6	4.8	6.0	—	—	—	—	24 mm	½" F	⅜" F	7.2	7.9	4.9	Dayton	**4WXV8**
4	1450	1.4	2.7	4.1	5.5	6.9	8.2	9.6	11.0	13.7	24 mm	½" F	⅜" F	13.3	9.7	7.3	Dayton	**4WXX1**
4	1750	1.4	2.8	4.2	5.5	6.9	8.3	—	—	—	24 mm	½" F	⅜" F	8.8	8.6	5	Dayton	**5ZNT5**
4	1450	1.4	2.8	4.2	5.5	6.9	8.3	—	—	—	24 mm	½" F	⅜" F	8.8	8.6	5	Dayton	**5ZNU1**
4	1750	1.4	2.7	4.1	5.5	6.9	8.2	9.6	11.0	—	24 mm	½" F	⅜" F	9.9	7.6	4.9	Dayton	**1MCX9**
4.2	1750	1.4	2.9	4.3	5.8	7.2	8.5	—	—	—	24 mm	½" F	⅜" F	9.9	7.7	4.9	Dayton	**1MDB3** †
4.8	1750	1.6	3.3	4.9	6.6	8.2	9.9	11.5	13.2	—	24 mm	½" F	⅜" F	9.9	7.6	4.9	Dayton	**1MCX7**
5	1526	1.7	4.1	6.1	8.2	10.2	12.3	14.3	16.4	—	24 mm	½" F	⅜" F	9.9	7.6	4.9	Dayton	**4WXW8**
5.5	1450	1.9	3.8	5.7	7.5	9.4	11.3	13.2	15.1	18.9	24 mm	½" F	⅜" F	12.2	9.7	5.8	Dayton	**1MCY1**
6.6	1750	2.3	4.5	6.8	9.1	11.3	13.6	15.9	18.1	—	24 mm	¾" F	⅜" F	12.2	9.7	5.8	Dayton	**1MCX8**
7.9	1000	2.7	5.4	8.1	10.8	13.6	16.3	19.0	21.7	27.1	35 mm	¾" F	½" F	22.7	18.1	9.1	A.R. North America	**4WXX2** ‡
8	1750	2.7	5.5	8.2	11.0	13.7	16.5	19.2	—	—	24 mm	¾" F	⅜" F	12.2	9.7	5.8	Dayton	**1MCY2**
9	1750	3.1	6.2	9.3	12.4	15.4	18.5	—	—	—	24 mm	¾" F	⅜" F	12.2	9.7	7.0	Dayton	**4WXW9**
11	1450	3.8	7.5	11.3	15.1	—	—	—	—	—	24 mm	¾" F	⅜" F	12.2	9.7	5.8	Dayton	**1MDB1**
18	1000	6.2	12.4	18.5	24.7	30.9	37.1	43.2	49.4	—	35 mm	1½" F	1" F	22.1	18.1	9.1	A.R. North America	**4WXX4**
36	800	12.4	24.7	37.1	—	—	—	—	—	—	35 mm	1½" F	1" F	22.1	18.1	9.1	A.R. North America	**4WXX3**
Direct-Mount, Electric Motor																		
2	1750	0.7	1.4	2.1	2.7	3.4	—	—	—	—	⅝"	½" F	⅜" F	7.7	7.2	5.5	Dayton	**4WXW2**
2	3450	1.0	2.1	3.1	4.1	5.1	—	—	—	—	⅝"	½" F	⅜" F	7.7	7.2	5.5	Dayton	**4WXW3**
3	1750	1.0	2.0	3.1	4.1	5.2	—	—	—	—	⅝"	½" F	⅜" F	8.9	7.0	5.5	Dayton	**1MDB2** †
3	1750	1.0	2.1	3.1	4.1	5.1	—	—	—	—	⅝"	½" F	⅜" F	7.7	7.2	5.5	Dayton	**4WXW4**
3	3450	1.0	2.1	3.1	4.1	5.1	—	—	—	—	⅝"	½" F	⅜" F	7.7	7.2	5.5	Dayton	**4WXW5**
3	1750	1.0	2.1	3.1	4.1	5.1	6.2	—	—	—	1⅛"	½" F	⅜" F	9.6	7.7	6.8	Dayton	**4WXX5**
3.5	1750	1.2	2.4	3.6	4.8	6.0	—	—	—	—	1⅛"	½" F	⅜" F	9.6	7.7	6.8	Dayton	**4WXX6**
4	1750	1.4	2.8	4.2	5.5	6.9	8.3	—	—	—	1⅛"	½" F	⅜" F	8.8	8.7	6.8	Dayton	**5ZNT9**
Direct-Mount, Gasoline Engine																		
2	3400	0.9	1.7	2.6	3.4	4.3	—	—	—	—	¾"	¾" GH	22 mm	7.2	6.8	6	Dayton	**1MDA9** #
2.5	3400	1.1	2.2	3.3	4.4	5.6	—	—	—	—	¾"	½" F	⅜" F	7.2	7.5	4.9	Dayton	**4WXV9**
2.5	3400	1.1	2.2	3.3	4.4	5.6	6.5	—	—	—	¾"	¾" GH	22 mm	7.1	5.5	6	Dayton	**4WXW7** #
2.5	3400	1.1	2.2	3.3	4.4	5.6	—	—	—	—	⅞"	¾" GH	22 mm	6.3	9.2	6	Dayton	**4WXX9** # **
3	3400	1.0	2.1	3.1	4.1	5.1	—	—	—	—	¾"	½" F	⅜" F	7.2	7.5	4.9	Dayton	**4WXW1**
3	3400	1.0	2.1	3.1	4.1	5.1	6.2	—	—	—	¾"	⅜" F	⅜" F	9.7	6.7	5.7	Dayton	**4WXX7**
3	3400	1.1	2.1	3.1	4.2	5.2	6.2	7.2	—	—	1"	½" F	⅜" F	8.8	9.5	6.5	Dayton	**5ZNT6**
3.5	3400	1.2	2.4	3.6	4.8	6.0	7.2	8.4	—	—	1"	½" F	⅜" F	8.8	9.5	6.5	Dayton	**5ZNT7**
4	3400	2.1	4.1	6.1	8.2	10.2	12.3	14.3	16.4	—	1"	½" F	⅜" F	9.7	9.1	5.9	Dayton	**1MCY8**
4	3400	2.1	4.1	6.1	8.2	10.2	12.3	14.3	16.4	—	1	⅜" F	⅜" F	9.7	9.4	6.6	Dayton	**4WXX8** #
4	3400	2.1	4.1	6.1	8.2	10.2	12.3	14.3	16.4	—	1"	½" F	⅜" F	8.8	9.5	6.5	Dayton	**5ZNU0**

Material	For Use With	Dim.	Brand	Item No.
Pump Rail Kit				
Steel	Dayton Plunger Pump Models 1MCX4, 1MCX5, 1MCX6, 1MCX7, 1MCX9, 1MDB3, 4WXV7, 4WXV8, 4WXW6, 4WXW8, 5ZNT5, 5ZNU1 and AR North Pump Series XM and RK	2⅝" H x 1¾" W x 6½" L	GA	**4YNP7**

** HP required for belt drive is based on electric motor. † Stainless steel manifold. ‡ No 4WXX2 is rated up to 7250 psi.*
*# Includes unloader valve and chemical injector. ** For vertical gas engine mounting.*



No.
4WXX2

Dayton

NORTH AMERICA

GA GRAINGER APPROVED



No.
4WXW4

High-Pressure Triplex Pumps

- Max. fluid temp: 140°F
- Concentric ceramic plungers
- Continuously lubricated seals

Suitable for high-pressure water applications, including car wash, pressure wash, sewer jetting, and cooling misting. Forged brass manifold has high-grade head bolts for added protection and strength. Feature a precision die-cast crankcase and stainless steel valves, plus oversize bearings and connecting rods for heavy load disbursement. Nos. 1MDB3 and 1MDB2 have 316L stainless steel manifold and Viton® seals. Direct-Mount, Electric Motor Pumps have standard C-face mounting.

See page 1591 for pressure washer accessories.

New installations require a Pump Rail Kit No. 4YNP7, sold separately on this page.

For additional spray components and accessories, see page 1591.



No. 3ACB9



No. 3ACA9

Dayton JABSCO

Self-Priming Flexible-Impeller Pumps

- Replaceable impellers

No metal-to-metal contact. Excellent for fluid transfer, spraying, lawn/garden applications, filter systems, water drainage, and machine/equipment coolant recycling.

Note: Not to be run in a dry condition.

Dayton®—Can be used with nonabrasive fluids in a wide range of commercial, industrial, and agricultural applications. Bronze pedestals can be easily installed with a capacitor-start electric motor with sufficient starting torque.

- Max. temp.: 180°F
- 1725 rpm motors (Nos. 3ACA9 to 3ACB2 do not include motors)

Jabsco®—Replaceable Viton® impellers handle more-corrosive liquids.

- Max. temp.: 176°F 316 stainless steel and stainless steel, 180°F epoxy
- 1750 rpm 316 stainless steel, 3000 rpm epoxy and stainless steel

HP†	Voltage	Amps	Inlet/ Outlet (in.)	NEMA Motor Frame	Seal	Impeller Material	GPM of Water Total ft. of Head 10	30	Max. Head (ft.)	Max. Pressure (psi)	Suction Lift (ft.)	Max. SSU @ 1725 rpm*	Brand	Mfr. Model	Item No.
Pump w/Motor															
304 Stainless Steel															
⅓	115/230	9.4/4.7	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	7.1	6.1	76	32.9	10	5000	Dayton	3ACC4	**3ACC4**
½	115/230	11.2/5.6	¾ NPT	56YZ			11.9	9.6	80	34.6	10	5000	Dayton	3ACC5	**3ACC5**
¾	115/230	14.0/7.0	1 NPT	56YZ			20.6	17.8	80	34.6	10	5000	Dayton	3ACC6	**3ACC6**
1	115/230	14.4/7.2	1¼ NPT	56YZ			25	22	85	36.7	10	5000	Dayton	3ACC7	**3ACC7**
1½	115/230	18.6/9.3	1½ NPT	56YZ			28	22	92	39.8	10	5000	Dayton	3ACC8	**3ACC8**
Brass															
⅓	115/230	9.4/4.7	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	7.1	6.1	76	32.9	10	5000	Dayton	3ABZ4	**3ABZ4**
¾	115/230	13.5/6.7	1 NPT	56YZ			23.0	20.7	86	37.2	16-20 Dry, 20-22 Wet	5000	Dayton	3ACC1	**3ACC1**
1	115/230	14.4/7.2	1¼ NPT	56YZ			25	22	85	36.7	10	5000	Dayton	3ACD3	**3ACD3**
1½	115/230	18.6/9.3	1½ NPT	56YZ			28	22	92	39.8	10	5000	Dayton	3ACD4	**3ACD4**
Bronze															
⅓	115/230	7.2/3.6	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	9.6	6.8	50	21.6	16-20 Wet,20-22 Wet	5000	Dayton	3ACB9	**3ACB9**
½	115/230	11.2/5.6	¾ NPT	56YZ			11.9	9.6	80	34.6	10	5000	Dayton	3ABZ5	**3ABZ5**
¾	115/230	14.0/7.0	1 NPT	56YZ			20.6	17.8	80	34.6	10	5000	Dayton	3ABZ6	**3ABZ6**
Epoxy															
½	115	8.2	½ (F)NPT	56C	—	Nitrile	11.3	9.0	48	21	12-15 Dry, 18-22 Wet	2500	Jabsco	17430-7000	**4UL34**

HP†	Inlet/ Outlet (in.)	Seals	Impeller	GPM of Water @ 10 ft. of Head	GPM of Water @ 10 ft. of Head	Max. Head (ft.)	Max. Pressure (psi)	Max. SSU @ 1725 rpm*	Brand	Mfr. Model	Item No.
Pump Head, Close Coupled											
Bronze and Brass											
⅓	½ NPT	Carbon, Ceramic	Nitrile	5.5	4.8	70	30.3	5000	Dayton	3ACA9	**3ACA9**
¾	¾ NPT			11.5	10.6	80	34.6	5000	Dayton	3ACB1	**3ACB1**
1	1 NPT			19.6	18	85	36.7	5000	Dayton	3ACB2	**3ACB2**

** Pedestal flow based at 1725 rpm, at stated horsepower. † Recommended HP.*

For Use With	Brand	Item No.
Replacement Flexible Impeller		
EPDM		
4UL38	Jabsco	**2XE60**
Neoprene		
Mfr. No. 30510-7000	Jabsco	**2XE55**
Mfr. No. 30520-7000	Jabsco	**2XE57**
Viton®		
4UL37	Jabsco	**2XE56**
Mfr. No. 17430-7000	Jabsco	**2XE54**
Mfr. No. 30520-7000	Jabsco	**2XE59**
Replacement Impeller		
Neoprene		
3ACA9	Dayton	**3ACB6**
3ACB1	Dayton	**3ACB7**
3ACB2	Dayton	**3ACB8**
Nitrile		
3ACA4, 3ACA5, 3ACA6, 3ACA7, 3ACA8	Dayton	**3ACD9**
3ACA9	Dayton	**3ACB3**
3ACB1	Dayton	**3ACB4**
3ACB2	Dayton	**3ACB5**

For Use With	Brand	Item No.
Replacement Impeller/Sleeve Assembly		
Neoprene		
3ABZ4	Dayton	**3ACA1**
3ABZ5	Dayton	**3ACA2**
3ABZ6	Dayton	**3ACA3**
3ACB9	Dayton	**3ACE1**
3ACC1	Dayton	**3ACE2**
3ACD3	Dayton	**3ACD7**
Nitrile		
3ABZ4	Dayton	**3ABZ7**
3ABZ5	Dayton	**3ABZ8**
3ABZ6	Dayton	**3ABZ9**
3ACB9	Dayton	**3ACC2**
3ACC1	Dayton	**3ACC3**
3ACC4	Dayton	**3ACE3**
3ACC5	Dayton	**3ACE4**
3ACC6	Dayton	**3ACC9**
3ACC7	Dayton	**3ACD1**
3ACD3	Dayton	**3ACD5**



No. 1MCZ7



No. 1MDA1

Dayton NORTH AMERICA

High-Pressure Pump Accessories

Adjustable Chemical Injectors—In-line, corrosion-resistant injectors can be mounted downstream, after the pressure pump and regulating valve, to inject liquid detergents or cleaning agents. Intended for use with a double lance, rollover nozzle, or quick-connect nozzle. Brass, stainless steel, and ceramic construction with Buna N seals.

High-Pressure and Regulating Unloader Valves—Protect pump and system components from surge shock damage that can occur when spray guns are shut off at high pressure. Brass and stainless steel construction with Buna N seals.

Size	Flow	Max. Water Pressure	L	W	Brand	Item No.
Water Check Valve						
¼"	6.6 gpm	4500 psi	2⅛"	⅞"	Mecline	**20FV59**
⅜"	10.5 gpm	5800 psi	2²¹⁄₆₄"	1¹⁄₁₆"	Mecline	**20FV60**
½"	21 gpm	5800 psi	3¹⁄₃₂"	1¹¹⁄₃₂"	Mecline	**20FV61**

Inlet Water Filter—Machined aluminum filter assures a clean water stream for any high-pressure pump. Filter is 50 mesh.

Regulating Pressure Relief Valve—Bypasses the required amount of water to maintain constant system pressure at all times, whether spray gun is open or closed. Brass and 300 stainless steel construction with Buna N seals.

Regulating Valves—Protect pumping systems from excess pressure. Brass bodies. Wetted materials: brass, stainless steel, Buna N, plastic, and steel on valves with male outlets; brass, stainless steel, Buna N, and steel on valves with female outlets.

Nos. 1MDA1 and 1MDA2 have a bolt-on design with internal bypass system. No. 1MDA1 fits pumps Nos. 4WXV7 to 4WXV9 and 4WXW1 to 4WXW6. No. 1MDA2 fits pumps Nos. 4WXX5, 4WXX6, 5ZNT5 to 5ZNT7, 5ZNT9, 5ZNU0, and 5ZNU1.

Nos. 1MDA3 and 1MDA4 feature a ¼" accessory port.

Safety Valve—For use as a secondary safety device to help keep pump and system pressure from reaching dangerous levels; must always be used with a pressure regulator or unloader. Adjustable range: 1000 to 4000 psi. ¾" hose barb discharge. Brass and 400 stainless steel construction with Delrin® seals.

Thermal Valve—Maintains a max. water temp. of 140°F to protect pump from possible heat damage while in bypass mode. Brass construction with Buna N seals.

Water Check Valves—Brass and stainless steel construction with Buna N seals. Can be mounted in a vertical or horizontal position.

Description	Inlet Port (in.)	Outlet Port (in.)	Bypass Port (in.)	Flow Range (gpm)	Max. Pressure (psi)	H (in.)	Max. Fluid Temp. (°F)	Brand	Item No.
Adjustable Chemical Injector	⅜ M	⅜ M	—	2 to 3	4500	3	200	Dayton	**1MCZ7**
	⅜ M	⅜ M	—	3 to 4	4500	3	200	Dayton	**1MCZ8**
	⅜ M	⅜ M	—	4 to 5.5	4500	3	200	Dayton	**1MCZ9**
High Pressure Unloader Valve	⅜ (M)NPT	⅜ NPT(M)	⅜ (F)NPT	0.5 to 8	2900	3⁴⁵⁄₆₄	194	Mecline	**20FV57**
	½ (F)NPT	½ NPT(H)	½ (F)NPT	2.5 to 26.4	4800	8⁷⁄₆₄	194	Mecline	**20FV58**
Inlet Water Filter	¾ Garden Hose Thread	½ M	¼ F	8	100	2-1/9	—	Dayton	**19C694**
Regulating Pressure Relief Valve	⅜ F	⅜ F	⅜ F	0 to 6.3	4060	4⅜	194	A.R. North America	**5JKL1**
Regulating Unloader Valve	⅜ F	⅜ F	—	0 to 7.8	3650	6¾	190	Dayton	**1MPP2**
Regulating Valve	½ F	⅜ M	—	2 to 3	2600	7½	190	Dayton	**1MDA1**
	½ F	⅜ M	—	3 to 5.5	3650	8⅞	190	Dayton	**1MDA2**
	⅜ F	⅜ F	(2) ⅜ F	0 to 10.5	3650	6¾	190	Dayton	**1MDA3**
	⅜ F	⅜ F	(2) ⅜ F	0 to 10.5	4500	6¾	190	Dayton	**1MDA4**
	⅜ F	⅜ M	⅜ F	0 to 9	5000	8⅞	190	Dayton	**1MDA5**
Safety Valve	⅜ M	—	—	0 to 6	4000	2	200	Dayton	**1MDA7**
Thermal Valve	½ M	—	—	—	200	1¾	140	Dayton	**1MDA6**

Vacuum Pump and Portable Container

Dayton

PUMP

Air-operated aluminum-body pump handles cutting fluids, waste oil, paint sludge, contaminated liquids, etc. Automatically shuts off when receiving container is full.

CONTAINER

Smooth, seamless polyethylene drum has 2" NPT bung opening and a ¾" opening. With carrying handle for easy transport.

Description	Construc. Material	Body Material	Item No.
Vacuum Pump, Includes Suction Hose, Air Connection Kit	—	Aluminum	5UWG2
15-gal. Container, 14 7/16 O.D. x 26 1/8" H	HDPE	—	5UWG5



No. 5UWG2



No. 5UWG5

Pedestal Gear Pumps—Intermittent-Duty

Dayton

- Max. temp.: 210°F, except 230°F on Nos. 4KHJ4 to 4KHJ9
- Max. viscosity: 500 SSU at 1725 rpm
- Max. pressure: 100 psi
- Self-priming

Intermittently transfer nonabrasive or nonparticulate viscous liquids with a near-pulseless flow. Not for use in pulley drive systems that do not have a pillow-block shaft assembly. Bidirectional rotation.

Note: Higher viscosity liquids (100,000 SSU) must be transferred with more horsepower at reduced speeds.

BRONZE

Bronze spur gears are great for water-based liquids. Wet-end components: 303 stainless steel, bronze, brass, PTFE, and carbon graphite.

CAST-IRON

Steel spur gears are great for oil-based liquids. Wet-end components: cast iron, steel, and Viton® on Viton-seal models; steel, cast iron, and PTFE on PTFE-seal models.



No. 4KHH7



No. 4KHK1

Port Size	Shaft Dia.	Shaft Height	GPM @ Free Flow	HP @ Free Flow*	GPM @ 100 psi	HP @ Free Flow @ 1725 rpm	Suction Lift	BRONZE W/ BRONZE BUSHING AND ZERK FITTINGS Item No.	BRONZE W/ (4) BUSHINGS (2 LONG AND 2 SHORT), (4) THICK WASHERS, (8) THIN WASHERS Item No.	BRONZE W/CARBON GRAPHITE BUSHINGS Item No.	BRONZE W/ CARBON GRAPHITE BUSHINGS W/RELIEF VALVE Item No.	CAST IRON W/VITON® LIP SEAL Item No.	CAST IRON W/PTFE, KEVLAR® PACKING SEAL AND ZERK FITTING Item No.
¼"	0.5"	1⅞"	2.2	⅛	1.9	⅛	2.5 ft.	4KHG4	—	—	4KHH7	4KHJ4	4KHK1
	0.5"	1⅞"	1/6	⅛	1.9	⅛	2.5 ft.	—	—	4KHH1	—	—	—
	0.5"	2 23/64"	4.8	½	4.4	½	3.5 ft.	4KHG5	—	4KHH2	4KHH8	4KHJ5	4KHK2
⅜"	0.625"	2⅜"	7	¾	6.5	¾	7.9 ft.	—	4KHH3	—	—	—	—
	0.625"	2⅜"	7	¾	6.6	¾	7.9 ft.	—	—	—	4KHH9	4KHJ6	4KHK3
	0.63"	2⅜"	7	¾	6.6	¾	7.9 ft.	4KHG6	—	—	—	—	—
½"	0.625"	2⅝"	10.8	¾	10.2	¾	12.3 ft.	—	—	4KHH4	4KHJ1	4KHJ7	4KHK4
	0.63"	2⅝"	10.8	¾	10.2	¾	12.3 ft.	4KHG7	—	—	—	—	—
¾"	0.625"	3 3/16"	20.6	1½	19.8	1½	15.2 ft.	4KHG8	—	4KHH5	4KHJ2	4KHJ8	4KHK5
1"	0.625"	3 3/16"	24.8	1½	23.1	1½	19.5 ft.	4KHG9	—	—	—	—	—
	0.625"	3 3/16"	24.8	1½	23.1	1½	19.6 ft.	—	—	4KHH6	4KHJ3	4KHJ9	4KHK6

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm. See page 13 for optional motors.*

Pedestal Gear Pumps

Dayton

- Max. viscosity: 500 SSU at 1725 rpm
- Max. pressure: 125 psi
- Mechanical seals
- Self-priming

Transfer nonabrasive or nonparticulate liquids with a near-pulseless flow. Pumps are bidirectional with positive displacement. All have keyed shafts and a seal flush chamber. Shaft ball bearings allow use with pulley-drive systems. Cast-iron and bronze models have pressure relief valves.

Note: Higher-viscosity liquids (100,000 SSU) must be transferred with more horsepower at reduced speeds.

CAST-IRON

- Max. temp.: 280°F

Steel spur gears handle oil-based fluids. Viton® mechanical seals with carbon/ceramic faces provide good resistance to compatible chemicals. Other wetted materials are cast iron and steel.

BRONZE

- Max. temp.: 210°F

Fortron® polyphenylene sulfide (PPS) spur gears transfer water-based liquids with no metal-to-metal contact; good chemical compatibility. Buna N mechanical seals with carbon/ceramic faces. Other wetted materials are bronze, brass, Fortron, and carbon graphite.

316 STAINLESS STEEL

- Max. temp.: 280°F

Fortron® polyphenylene sulfide (PPS) spur gears handle viscous-based fluids and operate quietly with no metal-to-metal contact; good chemical resistance. Viton mechanical seals with carbon/ceramic faces. Other wetted materials are 316 stainless steel, carbon graphite, and Fortron.



No. 4KHF8



No. 4KHP1

Port Size	Shaft Dia.	Shaft Height	GPM @ Free Flow	HP @ Free Flow*	GPM @ 125 psi @ 1725 RPM	HP @ 125 psi @ 1725 RPM	Suction Lift	CAST-IRON W/STEEL SPUR GEARS Item No.	BRONZE W/ CARBON GRAPHITE BUSHINGS Item No.	316 STAINLESS STEEL W/ CARBON BUSHINGS Item No.
⅜"	0.5"	2⅜"	4.8	½	4.1	1	3.5 ft.	4KHF8	4KHF3	—
⅜"	0.5"	2⅘"	4.8	½	4.1	1	3.5 ft	—	—	4KHP1
½"	⅝"	2⅝"	7	¾	6.1	1½	7.9 ft.	4KHF9	—	—
½"	0.625"	2⅝"	7	¾	6.1	1½	7.9 ft.	—	4KHF4	—
½"	0.625"	3 3/32"	10.8	1½	9.7	1	12.3 ft.	—	—	4KHP2
¾"	0.625"	2⅝"	10.8	¾	9.7	1½	12.3 ft.	4KHG1	4KHF5	—
1"	¾"	3 3/16"	20.6	1½	19.2	3	15.2 ft.	4KHG2	—	—
1"	0.750"	3 3/16"	20.6	1½	19.2	3	15.2 ft.	—	4KHF6	—
1"	0.750"	3 15/16"	24.8	1½	23.3	3	19.5 ft	—	—	4KHP3
1¼"	0.750"	3 3/16"	24.8	1½	23.3	3	19.5 ft.	4KHG3	4KHF7	—

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm. See page 13 for optional motors.*


No. 4KGZ8

Dayton

Adjustable Pressure Relief Valves

- Operate in any position
- Max. temp.: 180°F

Pressure can be set to maximize discharge performance. Some bypass may occur.

WARNING: For use with positive displacement pumps only. Not designed for complete shutoff. Not for hot water heaters, boilers, or steam service. Install only on pressure side of pump to relieve pressure. Using valves under or over rated pressure will cause valve to leak.

Max. Flow (gpm)	Pressure Range (psi)	Body Material	Wetted Materials*	Inlet Port (in.)	Outlet Port (in.)	Item No.
6	300 to 600	Bronze	SS	½ (M)NPT	½ (F)NPT	**4KGZ8**
6	300 to 600	Bronze	SS	¾ (M)NPT	¾ (F)NPT	**4KGZ7**
13	0 to 150	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	**4KGZ9**
22	0 to 250	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	**4KHA3**
25	0 to 300	Bronze	SS	¾ (M)NPT	¾ (F)NPT	**4KHA1**
40	0 to 400	Bronze	SS	1 (M)NPT	¾ (F)NPT	**4KHA2**

** SS = stainless steel.*

Intermittent-Duty Rotary Gear Pumps—Carbonator-Mount

Dayton


No. 4KHP8


No. 41TK24

- Max. viscosity: 500 SSU at 1750 rpm
- Max. operating pressure: 100 psi
- ODP motor enclosures
- Mechanical seals

These pumps are self-priming and have a pressure relief valve. Bidirectional (reversible) motor drive with thermal overload protection.

CAST-IRON
- Max. temp.: 280°F

Designed for oil-based fluids. Steel spur gears and shafts with Viton® seals. Other wetted materials are cast iron, 303 stainless steel, carbon, and ceramic.

BRONZE
- Max. temp.: 210°F

Handle water-based fluids. Carbon graphite bushings and Buna N seals. Other wetted materials are bronze, brass, Buna N gasket, and 303, 17-7, and 18-8 stainless steel.

Port Size	GPM @ Free Flow	HP @ Free Flow*	GPM @ 100 psi	HP @ 100 psi	Suction Lift	CAST-IRON Item No.	BRONZE Item No.
Pump Only							
¼"	2.2	⅓	1.60	⅓	3.2 ft.	**4KHR1**	**4KHP8**
⅜"	4.4	½	3.60	½	3.6 ft.	**4KHR2**	**4KHP9**

HP	Voltage	Amps AC	Port Size (in.)	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	CAST-IRON Item No.	BRONZE Item No.
Pump with Motor								
⅓	115/230	5.6/2.8	¼	2.2	1.3	3.2	**41TK24**	**41TK25**
½	115/230	7.2/3.6	⅜	4.4	3.0	3.6	**41TK26**	**41TK27**

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm.*

Rotary Gear Pumps—Close-Coupled

Dayton


No. 4KHC5


No. 41TK06

- Max. viscosity: 500 SSU
- Max. pressure: 125 psi
- Mechanical seals
- Self-priming

Can be mounted on NEMA C-face motors to provide a near pulseless flow with easy maintenance. Feature ball bearings and keyed shafts.

CAST-IRON
- Max. temp.: 280°F
- ODP motor enclosures

Steel spur gears handle oil-based fluids. Viton® carbon/ceramic seal with cellulose gasket. Other wetted materials are cast iron and steel. With pressure relief valve.

BRONZE
- Max. temp.: 210°F
- ODP motor enclosures

Fortron® PPS spur gears have a linear polymer structure for greater strength, and transfer water-based liquids with no metal-to-metal contact; good chemical compatibility. Ryton® PPS gears have a cross-linked polymer construction and can resist a variety of solvents and corrosive chemicals. Carbon/ceramic/Buna N seal and carbon graphite bushings. Other wetted materials include bronze and brass. With pressure relief valve.

316 STAINLESS STEEL
- Max. temp.: 280°F
- TEFC motor enclosures

Fortron® PPS spur gears are a linear polymer construction for added strength, and operate quietly with no metal-to-metal contact; good chemical resistance. Viton® seal. Sealed flush chamber increases pump efficiency. Other wetted materials are 316 stainless steel, carbon graphite, Graphoil® gasket, and ceramic.

Port Size	Motor Frame	GPM @ Free Flow	HP @ Free Flow	GPM @ 125 psi	HP @ 125 psi	Suction Lift	CAST-IRON, STEEL SPUR GEAR Item No.	BRONZE, FORTRON PPS SPUR GEAR Item No.	316 STAINLESS STEEL, FORTRON PPS SPUR GEAR Item No.
Pump Only									
¼"	56C	4.8	½	4.1	1	3.5 ft.	**4KHC5**	**4KHA9**	—
⅜"	56C	4.8	½	4.1	1	3.5 ft.	—	—	**4KHN7**
⅜"	56C	7	¾	6.1	1½	7.9 ft.	**4KHC6**	**4KHC1**	—
½"	56C	10.8	¾	9.7	1½	12.3 ft.	**4KHC7**	**4KHC2**	**4KHN8**
1"	182TC/184TC	24.8	1½	23.3	3	19.5 ft.	**4KHC9**	**4KHC4**	**4KHN9**

HP	Port Size (in.)	Gear Material	Motor Frame	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	Voltage	Item No.
Pump with Motor								
Cast Iron								
1	¼	Steel Spur	56HC	4.8	4.4	3.5	115/230	**41TK05**
	¼		56C	4.8	4.4	3.5	230/460	**41TK13**
1½	⅜		56HC	7	6.5	7.9	115/230	**41TK09**
	⅜		56C	7	6.5	7.9	230/460	**41TK16**
	½		56HC	10.8	10.2	12.3	115/230	**41TK10**
	½		56C	10.8	10.2	12.3	230/460	**41TK18**
3	1		182TC/184TC	24.8	23.9	19.5	230/460	**41TK21**
Bronze								
1	¼	Fortron PPS Spur	56HC	4.8	4.4	3.5	115/230	**41TK06**
	¼		56C	4.8	4.4	3.5	230/460	**41TK14**
1½	⅜		56HC	7	6.5	7.9	115/230	**41TK08**
	⅜		56C	7	6.5	7.9	230/460	**41TK17**
	½		56HC	10.8	10.2	12.3	115/230	**41TK11**
	½		56C	10.8	10.2	12.3	230/460	**41TK19**
3	1		182TC/184TC	24.8	23.9	19.5	230/460	**41TK22**
316 Stainless Steel								
1	⅜	Fortron PPS Spur	56HC	4.8	4.4	3.5	115/230	**41TK07**
	⅜		56C	4.8	4.4	3.5	230/460	**41TK15**
1½	½		56HC	10.8	10.2	12.3	115/230	**41TK12**
	½		56C	10.8	10.2	12.3	230/460	**41TK20**
3	1		182TC/184TC	24.8	23.9	19.5	230/460	**41TK23**

CHEMSTEEL®

Rotary Gear Pumps—High Temperature

- Max. temp.: 450°F
- Max. viscosity: 100 SSU, except Pedestal are 500 SSU
- Metering accuracy ±0.5%
- Self-priming

Quietly transfer highly corrosive liquids at higher pressures and temperatures. Pumps have a 316 stainless steel housing and feature Waukesha 88® nongalling helical gears. With heavy-duty 1-pc. combination bearing and full-size carbon bearing wear plate; sized to match the full gear diameter. Pump housings have through-bolt construction with PTFE-encapsulated silicone O-ring housing seals and a seal flush chamber. Other wetted materials include 316 stainless steel, W88 helical gears, PTFE, Kalrez®, ceramic, and carbon. Bidirectional rotation.

Magnetic Drive—These sealless pumps are used to transfer harsh and aggressive chemicals in environmentally sensitive or regulated areas.
- Max. pressure: 110 psi

Mechanical Seal—Type 9T stainless steel and PTFE mechanical shaft seals handle many harsh chemical liquids.
- Max. pressure: 150 psi (No. 2ERA9 is 110 psi)



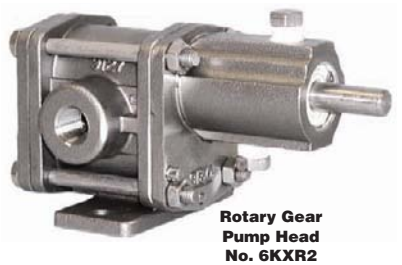
Magnetic Drive
No. 2ERE7



Mechanical Seal
No. 2ERC3

HP	Voltage	Amps	Port Size (NPT)	NEMA Motor Frame	GPM @ Free Flow @ 1725 rpm	GPM @ 1725 rpm 100 psi*	Suction Lift (ft.)	MAGNETIC DRIVE Item No.	MECHANICAL SEAL Item No.
Rotary Gear Pumps									
⅓	115/230	6/3	¼	56C	0.6	0.37	1.5	**2ERE7**	**2ERA9**
⅓	115/230	6/3	¼	56C	1.5	1.12	2	**2ERE8**	**2ERC1**
⅓	115/230	6/3	½	56C	2	1.6	3	**2ERE9**	**2ERC2**
½	115/230	8/4	½	56C	3	2.2	4	**2ERF1**	**2ERC3**
¾	115/230	8.4/4.2	½	56C	4	3.7	5	**2ERF2**	**2ERC4**
1	115/230	12.8/6.4	½	56C	5.6	5.25	6	**2ERF3**	**2ERC5**
1½	230/460	5/2.5	½	56C	8	7.5	8	**2ERF4** †	**2ERC6** †
1½	230/460	5/2.5	¾	56C	10	9.25	9	**2ERF5** †	**2ERC7** †
3	230/460	8.3/4.15	1½	182TC	14.9	12.4	10	**2ERF6** †	**2ERC8** †
3	230/460	8.3/4.15	1½	182TC	20	17.6	12	**2ERF7** †	**2ERC9** †
5	230/460	13.2/6.6	1½	182TC	23	20.1	15	**2ERF8** †	**2ERD1** †
5	230/460	13.2/6.6	1½	182TC	30	27	17	**2ERF9** †	**2ERD2** †

Recommended Motor HP	Port Size (NPT)	NEMA Motor Frame	Free Flow (gpm)	GPM @ 40 psi*	GPM @ 50 psi*	Max. Pressure	Suction Lift	Mfr. Model	Item No.
Rotary Gear Pump Heads, Mechanical Seal									
⅓	¼"	56C	0.6	.5	.5	110 psi	1.5 ft.	R10216CA	**6KXR2**
⅓	¼"	56C	1.4	1.3	1.3	150 psi	2 ft.	R10316CA	**6KXR3**
⅓	½"	56C	2.1	1.9	1.8	150 psi	3 ft.	R10416CA	**6KXR4**
½	½"	56C	2.8	2.5	2.5	150 psi	4 ft.	R10616CA	**6KXR5**
¾	½"	56C	4.4	4.2	4.2	150 psi	5 ft.	S20716CA	**6KXR6**
1	½"	56C	6.2	5.9	5.8	150 psi	6 ft.	S21016CA	**6KXR7**
1 ½	½"	56C	8.6	8.3	8.3	150 psi	8 ft.	S21416CA	**6KXR8**
1 ½	¾"	56C	10.5	10.1	10.0	150 psi	9 ft.	S41716CA	**6KXR9**
3	1½"	182TC	14.9	13.9	13.7	150 psi	10 ft.	S92316CA	**6KXT0**
3	1½"	182TC	19.6	18.8	18.6	150 psi	12 ft.	S93016CA	**6KXT1**
5	1½"	184TC	22.4	21.6	21.4	150 psi	15 ft.	S93516CA	**6KXT2**
5	1½"	184TC	29.5	28.6	28.4	150 psi	17 ft.	S94616CA	**6KXT3**
Close Coupled Motor Adapters									
For Use With Pump Models R102 thru R106							—	2012	**6KXT4**
For Use With Pump Models S207 thru S214							—	3232	**6KXT5**
For Use With Pump Models S417							—	9811	**6KXT6**
For Use With Pump Models S923 thru S946							—	9809	**6KXT7**



Rotary Gear
Pump Head
No. 6KXR2

** To convert to feet of head divide by 2.31. † 3-phase models are inverter-duty rated and meet NEMA MG 1 Part 31.4.4.2 in constant- and variable-torque applications with a 20:1 turndown ratio; see page 157 for AC Adjustable Frequency Drives.*

Dayton®

Hot Oil and Filtration Pumps

- Max. temp.: 375°F
- Max rpm: 1725

Bidirectional pumps feature all cast-iron construction and provide a near-pulseless flow in intermittent-duty commercial hot oil transfer applications. Nonclogging pumps have spur gears, and are able to pass nonabrasive particulates and reduce oil shear. Suitable for use in commercial fat fryers, filtration processes, and cooking oil waste removal. Not for use with water-based fluids. Include motor with ODP enclosure, except Nos. 6DHH7 and 6DHH8.

Rotary Gear Pumps, Carbonator Mount
- Max. viscosity: 100 SSU

Rotary Gear Pumps, Close-Coupled—Include relief valve.
- Max. viscosity: 100 SSU

Rotary Gear Pump Heads, Carbonator Mount
- Max. viscosity: 100 SSU



No. 6DHH9



No. 6DHJ1



No.
6DHH7

HP	Voltage	Amps	Port Size (NPT)	GPM Pumping Cooking Oil @ 300°F Free Flow (gpm)	GPM @ 40 psi	GPM @ 50 psi	Suction Lift (ft.)	Max. Pressure (psi)	Seal	Item No.
Rotary Gear Pumps, Carbonator Mount										
⅓	115/230	6.0/3.0	½	4.1	3.4	—	5.1	40	Viton® Lip	**6DHH9**
½	115/230	8.4/4.2	½	5.2	4.4	—	6.2	40	Silicone Lip	**6DHJ0**
Rotary Gear Pumps, Close-Coupled										
½	115/230	8.8/4.4	½	6.7	5.8	5.5	7.9	60	Viton® Mechanical	**6DHJ1**
¾	115/230	11.6/5.8	¾	9.9	8.1	7.7	12.3	60	Viton® Mechanical	**6DHJ2**
Rotary Gear Pump Heads, Carbonator Mount										
½	—	—	½	5.2	4.4	—	6.2	40	Viton® Lip	**6DHH7**
⅓	—	—	½	4.1	3.4	—	5.1	40	Viton® Lip	**6DHH8**

PROCON® Products

Carbonator-Mount Rotary Vane Pumps



No. 6XE79



No. 6XE86



No. 1MCX2

- **Max. fluid temp.: 158°F**
- **Max. operating pressure: 250 psi**
- **NSF rated, except Nos. 6XE82 and 6XE84**

These positive displacement pumps run quietly, have low vibration and pulsation characteristics, and are virtually maintenance-free. They can handle many liquids with low lubricating characteristics at relatively high pressures. Flow remains constant over entire pressure range. Most models are self-priming (except Nos. 6XE92 and 6XE95). Metal-to-metal contact is eliminated, resulting in low starting torque. 303 stainless steel shaft, stainless steel rotors, and built-in relief valve. Pumps mount on NEMA 56C frame motors (adapter kit sold separately) for a coupling drive, or can be attached to a NEMA 48YZ motor with a V-band clamp. High-temperature plastic internal bypass valve eliminates the need for an external relief valve on all models except Nos. 6XE92 and 6XE95. [(Nos. 6XE82 and 6XE84 have internal solid-brass bypass valves. Brass and stainless steel also available on all other models; call 1-800-GRAINGER (472-4643).]

Pumps work with carbonated, deionized, or distilled water and moderately aggressive liquids—such as fire-resistant fluids, hydraulic oil, lubricants, coolants, insecticides, and soap. For use in dispensers, espresso machines, sprayers, filtration and water purification processes, team-cleaning and car-washing machines, pressure boosters, atomizing/misting humidification systems, circulation systems, laboratory pumps, pilot plants, boiler feeds, textile machines, and fire jockey pumps.

Inlet/Outlet NPTF (in.)	Max. Flow (gph)	Min. Flow Rate (gph)	Filter Strainer	100 psi gph	100 psi HP	200 psi gph	200 psi HP	250 psi gph	250 psi HP	BRASS Mfr. Model	BRASS Item No.		STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
	25	19	100 Mesh	25	¼	21	¼	19	⅓	111A025F11CA 250	**6XE97**		—	—
	35	19	—	25	¼	21	¼	19	⅓	112A025F11CA 250	**6XE96**		113A025F31CA 250	**5JKD4**
	35	19	100 Mesh	25	¼	21	¼	19	⅓	141A025F11CA 250	**5JKE2**	*	—	—
	48	29	—	35	¼	31	¼	29	⅓	112A035F11CA 250	**6XE79**		113A035F31CA 250	**6XE86**
	48	29	100 Mesh	35	¼	31	¼	29	⅓	111A035F11CA 250	**6XE78**		—	—
	48	29	100 Mesh	35	¼	31	¼	29	⅓	141A035F11CA 250	**5JKD8**	*	—	—
	73	54	—	60	¼	56	⅓	54	½	112A060F11CA 250	**6XE80**		113A060F31CA 250	**5JKD1**
	73	54	100 Mesh	60	¼	56	⅓	54	½	111A060F11CA 250	**6XE81**		—	—
	73	54	100 Mesh	60	¼	56	⅓	54	½	141A060F11CA 250	**5JKD9**	*	—	—
⅜	82	64	—	70	¼	66	⅓	64	½	—	—		113A070F31BA 250	**6XE87**
	112	94	—	100	¼	96	⅓	94	½	102A100F11PA 250	**6XE82**		113A100F31BA 250	**6XE88**
	112	94	—	100	¼	96	⅓	94	½	—	—		103A100F31RA 250	**5JKD2**
	112	94	100 Mesh	100	¼	96	⅓	94	½	111A100F11AA 250	**6XE83**		—	—
	112	94	100 Mesh	100	¼	96	⅓	94	½	141A100F11AA 250	**5JKE0**	*	—	—
	131	121	100 Mesh	126	½	122	½	120	¾	141A125F11AA 250	**5JKE1**	*	—	—
	154	135	—	141	⅓	137	¾	135	¾	102A140F11PA 250	**6XE84**		—	—
	154	135	—	141	⅓	137	½	94	¾	—	—		113A140F31BA 250	**6XE89**
	154	135	—	141	⅓	137	½	135	¾	—	—		103A140F31RA 250	**5JKD3**
	154	135	100 Mesh	141	⅓	137	¾	135	¾	111A140F11AA 250	**6XE85**		—	—
	154	135	100 Mesh	141	⅓	137	¾	135	¾	141A140F11AA 250	**5JKE3**	*	—	—
	210	178	—	190	⅓	182	¾	178	¾	114B190F11BA 250	**6XE93**		115B190F31BA 250	**6XE90**
	260	228	—	240	½	232	¾	228	1	114B240F11BA 250	**6XE94**		115B240F31BA 250	**5JKD6**
½	275	257	—	263	½	259	1	257	1¼	—	—		115B265F31BA 250	**6XE91**
	346	326	—	330	½	327	1	326	1¼	114B330F11XX	**6XE95**		—	—
	346	326	—	330	¾	327	1	326	1¼	—	—		115B330F31XX	**6XE92**

Low lead.

Bronze Couplings—Couplings absorb most of the wear usually inflicted upon pump and motor shafts to protect both in the event of misalignment, extending pump/motor life. Can be easily and inexpensively replaced as needed. Use only with slotted rotors.

For Use With	Shaft Dia. (in.)	Shaft Type	Mfr. Model	Item No.
Bronze Couplings				
Mfr. No. 115B190F31BA 250, 115B265F31BA 250, 115B330F31XX, 114B190F11BA 250, 114B240F11BA 250, 114B330F11XX	⅝	Double Flat/Slot	1143	**1MCX2**
Mfr. No. 3540	⅝	Double Flat/Slot	1143-4	**1MCX3**



No. 34TL03



No. 34TL04



No. 34TL14



No. 34TL23

Fluid-o-Tech® POWER THE FLOW

Rotary Vane Pumps

- **Max. temp.: 158°F**
- **Max. pressure: 290 psi**

These high-pressure pumps provide a steady liquid flow and feature a rugged 303 stainless steel rotor and a graphite vane. Suitable for use in beverage, dairy pasteurizing, liquid transfer, machine coolant, reverse osmosis, and water boosting applications. You can mount all carbonator mount pumps to any NEMA 48Y frame motor. Shaft Saver No. 34TL24 (sold separately) installs between the motor hub and pump to help reduce wear on the motor and pump shaft. Includes 2 clamps, collar, and coupling. Pumps are NSF compliant and suitable for use in potable water applications.

Inlet/ Outlet	Min. Flow (gpm)	By-Pass	Mounting	LOW-LEAD BRASS Mfr. Model	LOW-LEAD BRASS Item No.		STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
	0.4			PB0071ANCNN0000	**34TL07**		—	—
	0.4			PB0071XNANN0000	**34TL08**	*	—	—
	0.5			PB0101XNANN0000	**34TL11**	*	PO0101BNCNN0000	**34TL13**
	0.5			PB0101ANCNN0000	**34TL12**		—	—
⅜" FNPT	1			PB0201XNANN0000	**34TL18**	*	PO0201BNCNN0000	**34TL20**
	1			PB0201ANCNN0000	**34TL19**		—	—
	1.6	Yes	Carbonator	PB0301TNANN0000	**34TK96**	*	PO0301BNCNN0000	**34TK98**
	1.6			PB0301ANCNN0000	**34TK97**		—	—
	2.3			PB0401XNANN0000	**34TK99**	*	PO0401BNCNN0000	**34TL02**
	2.3			PB0401ANCNN0000	**34TL01**		—	—
	3.1			PB0601ANDNN0000	**34TL03**		PO0601BNENN0000	**34TL04**
½" FNPT	4			PB0801ANDNN0000	**34TL05**		PO0801BNENN0000	**34TL06**
	5.5			PB1001ANDNN0000	**34TL09**		PO1001BNENN0000	**34TL10**
1" HNPT	6.6			—	—		LO1200CN0NV0000	**34TL14**
	7.7			—	—		LO1400CN0NV0000	**34TL15**
	8.8			—	—		LO1600CN0NV0000	**34TL16**
1" FNPT	9.9	No	Flange	—	—		LO1800CN0NV0000	**34TL17**
	11			—	—		LO2000CN0NV0000	**34TL21**
	12.1			—	—		LO2200CN0NV0000	**34TL22**

Description	Body Material	Mounting	Mfr. Model	Item No.
Accessories				
Adapter	Plastic	Flange and Clamp	22388-K	**34TL23**
Shaft Saver Kit	Glass Encapsulated Nylon	Clamp	92-01-04-DK	**34TL24**
V-Band Clamp	Stainless Steel	47.4mm dia. Clamp	94-80-01	**34TL25**

Strainer included.

Compression Packing Seals

Palmetto®

Packing materials are calendared and oven-dried to help make the packing more dense so that fewer adjustments are required. Lubricated seals keep the packing from spinning with the shaft during break-in. Can be cut and formed into individual rings to act as a seal in pumps or valves. See chart for pump and valve performance limits.



GFO® No. 4RTL4



Aramid No. 4RTA1

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
GENERAL SERVICE		**General service for water pumps & light- to medium-duty**							
A	1030AF	General water pump service, composite packing w/ graphite, Novoloid & aramid. Dull gray.	-400 to +600	NR	200	1200	NR	2000	3 to 11
B	1347AF	General service, white synthetic packing w/ PTFE	-10 to +450	NR	500	NR	NR	2300	2 to 12
C	1392S	General service, composite packing w/ PTFE. Brown.	-10 to +400	NR	400	NR	NR	1200	2 to 12
GENERAL SERVICE+		**PTFE/graphite packings for general service w/ faster shaft speeds and/or light slurry**							
D	1382	Expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	3800	0 to 14
E	1389	100% GFO® expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	4300	0 to 14
ABRASIVE / SLURRY		**Abrasive/slurry packing for demanding applications in mining, dredging, oil sand, asphalt & wastewater**							
F	PE1000	Black graphitized aramid w/ lube for high pressure reciprocating & abrasive slurry. Dull black.	-400 to +550	NR	800	NR	NR	2500	1 to 13
G	1350	Yellow para-aramid for high pressure & abrasive slurry applications	-10 to +500	NR	500	NR	NR	2500	3 to 11
H	1359	Expanded PTFE w/ graphite, aramid corners extrusion resistant slurry packing. Dull black.	-10 to +500	NR	700	NR	NR	2700	3 to 11
I	1371	White meta-aramid for high pressure, abrasive slurry, paper mill applications	-10 to +550	NR	500	NR	NR	2000	1 to 14

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(A) 1030AF Novoloid/ Aramid with Graphite			
1/8	4RTV4	4RTV5	4RTV6
3/16	4RTV7	4RTV8	4RTV9
1/4	4RTW1	4RTW2	4RTW3
5/16	4RTW4	4RTW5	4RTW6
3/8	4RTW7	4RTW8	4RTW9
7/16	4RTX1	4RTX2	4RTX3
1/2	4RTX4	4RTX5	4RTX6
5/8	4RTX7	4RTX8	4RTX9
3/4	4RTY1	4RTY2	4RTY3
(B) 1347AF Acrylic/PTFE			
1/8	4RUC4	4RUC5	4VKE9
3/16	4VKF1	4VKF2	4VKF3
1/4	4VKF4	4VKF5	4VKF6
5/16	4VKF7	4VKF8	4VKF9
3/8	4VKG1	4VKG2	4VKG3
7/16	4VKG4	4VKG5	4VKG6
1/2	4VKG7	4VKG8	4VKG9
5/8	4VKH1	4VKH2	4VKH3
3/4	4VKH4	4VKH5	4VKH6

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(C) 1392S Novoloid/ Aramid with PTFE			
1/8	4RTY4	4RTY5	4RTY6
3/16	4RTY7	4RTY8	4RTY9
1/4	4RTZ1	4RTZ2	4RTZ3
5/16	4RTZ4	4RTZ5	4RTZ6
3/8	4RTZ7	4RTZ8	4RTZ9
7/16	4RUA1	4RUA2	4RUA3
1/2	4RUA4	4RUA5	4RUA6
5/8	4RUA7	4RUA8	4RUA9
3/4	4RUC1	4RUC2	4RUC3
(D) 1382 Expanded PTFE with Graphite			
1/8	4RTR4	4RTR5	4RTR6
3/16	4RTR7	4RTR8	4RTR9
1/4	4RTT1	4RTT2	4RTT3
5/16	4RTT4	4RTT5	4RTT6
3/8	4RTT7	—	4RTT9
7/16	4RTU1	4RTU2	4RTU3
1/2	4RTU4	4RTU5	4RTU6
5/8	4RTU7	4RTU8	4RTU9
3/4	4RTV1	4RTV2	4RTV3

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(E) 1389 100% GFO™ Expanded PTFE with Graphite			
1/8	4RTL4	4RTL5	4RTL6
3/16	4RTL7	4RTL8	4RTL9
1/4	4RTN1	4RTN2	4RTN3
5/16	4RTN4	4RTN5	4RTN6
3/8	4RTN7	4RTN8	4RTN9
7/16	4RTP1	4RTP2	4RTP3
1/2	4RTP4	4RTP5	4RTP6
5/8	4RTP7	4RTP8	4RTP9
3/4	4RTR1	4RTR2	4RTR3
(F) PE1000 Graphited Aramid			
1/8	4RRP7	4RRP8	4RRP9
3/16	4RRR1	4RRR2	4RRR3
1/4	4RRR4	4RRR5	4RRR6
5/16	4RRR7	4RRR8	4RRR9
3/8	4RRT1	4RRT2	4RRT3
7/16	4RRT4	4RRT5	4RRT6
1/2	4RRT7	4RRT8	4RRT9
5/8	4RRU1	4RRU2	4RRU3
3/4	4RRU4	4RRU5	4RRU6

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(G) 1350 Para-Aramid			
1/8	4RTA1	4RTA2	4RTA3
3/16	4RTA4	4RTA5	4RTA6
1/4	4RTA7	4RTA8	4RTA9
5/16	4RTC1	4RTC2	4RTC3
3/8	4RTC4	4RTC5	4RTC6
7/16	4RTC7	4RTC8	4RTC9
1/2	4RTD1	4RTD2	4RTD3
5/8	4RTD4	4RTD5	4RTD6
3/4	4RTD7	4RTD8	4RTD9
(H) 1359 Expanded PTFE with Graphite and Aramid Corners			
1/4	4RRU7	4RRU8	4RRU9
5/16	4RRV1	4RRV2	4RRV3
3/8	4RRV4	4RRV5	4RRV6
7/16	4RRV7	4RRV8	4RRV9
1/2	4RRW1	4RRW2	4RRW3
5/8	4RRW4	4RRW5	4RRW6
3/4	4RRW7	4RRW8	4RRW9

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(I) 1371 Meta-Aramid			
1/8	4RRX1	4RRX2	4RRX3
3/16	4RRX4	4RRX5	4RRX6
1/4	4RRX7	4RRX8	4RRX9
5/16	4RRY1	4RRY2	4RRY3
3/8	4RRY4	4RRY5	4RRY6
7/16	4RRY7	4RRY8	4RRY9
1/2	4RRZ1	4RRZ2	4RRZ3
5/8	4RRZ4	4RRZ5	4RRZ6
3/4	4RRZ7	4RRZ8	4RRZ9

Compression Packing Seals

Palmetto®

Can be cut and formed into individual rings, to act as seals in pumps or valves. See chart for pump and valve performance limits.



Graphite No. 4VLE4

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
FOOD / CHEMICAL		**White TFE-based packing for food, chemical or other applications needing a white or non-staining packing w/ a wide pH range**							
A	1367FS	FDA compliant PTFE white packing w/ mineral oil lubrication	-400 to +500	NR	250	NR	NR	1200	0 to 14
B	1367S	PTFE white packing w/ lubrication (MIL-P-24396, Type A) for corrosive chemicals, pumps, & mixers	-400 to +500	+500	250	NR	NR	1200	0 to 14
HIGH SPEED / TEMP		**Packing for high shaft speeds and/or high-temp. media**							
C	1555	Graphite filament packing w/ graphite for high-temp. & high-speed applications w/ good sealability. Dull gray color.	-450 to +800	+1200	500	3500	3500	4000	1 to 14
D	1575	Carbon is good for high temps. & high shaft speeds	-450 to +650	1000	500	2500	2500	4000	0 to 14
E	1578	Carbon/PTFE for high temps. & high shaft speeds	-450 to +650	1200	500	2500	NR	4000	0 to 14
F	5000	Braided flexible graphite packing w/ no wire for high speed & temps. Shiny gray color.	-450 to +650	+1200	250	2500	2500	4000	0 to 14
G	5080	Flexible graphite packing w/ carbon corners for high speed & temps. provides for low leakage in pumps & valves. Shiny gray color.	-400 to +650	+1200	500	3000	3000	4000	0 to 14
VALVES		**Valve packing**							
H	1367H	PTFE white packing without lubrication (MIL-P-24396, Type B) used w/ valves in corrosive, pressure-resistant non-steam applications	-400 to +500	NR	NR	2000	NR	NR	0 to 14
I	5000W	Flexible graphite packing w/ a small amount of Inconel wire for steam valves. Shiny gray color.	-100 to +650	+1200	NR	3500	3500	NR	1 to 14

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(A) 1367FS PTFE			
1/8	4RTH1	4RTH2	4RTH3
3/16	4RTH4	4RTH5	4RTH6
1/4	4RTH7	4RTH8	4RTH9
5/16	4RTJ1	4RTJ2	4RTJ3
3/8	4RTJ4	4RTJ5	4RTJ6
7/16	4RTJ7	4RTJ8	4RTJ9
1/2	4RTK1	4RTK2	4RTK3
5/8	4RTK4	4RTK5	4RTK6
3/4	4RTK7	4RTK8	4RTK9
1	4RTL1	4RTL2	4RTL3
(B) 1367S PTFE			
1/8	4RTE1	4RTE2	4RTE3
3/16	4RTE4	4RTE5	4RTE6
1/4	4RTE7	4RTE8	4RTE9
5/16	4RTF1	4RTF2	4RTF3
3/8	4RTF4	4RTF5	4RTF6
7/16	4RTF7	4RTF8	4RTF9
1/2	4RTG1	4RTG2	4RTG3
5/8	4RTG4	4RTG5	4RTG6
3/4	4RTG7	4RTG8	4RTG9

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(C) 1555 Graphite Filament with Graphite			
1/8	4VLE4	4VLE5	4VLE6
3/16	4VLE7	4VLE8	4VLE9
1/4	4VLF1	4VLF2	4VLF3
5/16	4VLF4	4VLF5	4VLF6
3/8	4VLF7	4VLF8	4VLF9
7/16	4VLG1	4VLG2	4VLG3
1/2	4VLG4	4VLG5	4VLG6
5/8	4VLG7	4VLG8	4VLG9
3/4	4VLH1	4VLH2	4VLH3
(D) 1575 Carbon Packing with Graphite (Continuous Filament)			
1/8	12N773	12N774	12N775
3/16	12N776	12N777	12N778
1/4	12N779	12N780	12N781
5/16	12N782	12N783	12N784
3/8	12N785	12N786	12N787
7/16	12N788	12N789	12N790
1/2	12N791	12N792	12N793
9/16	12N794	12N795	12N796
5/8	12N797	12N798	12N799
3/4	12N801	12N802	12N803

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(E) 1578 Carbon Packing with PTFE (Continuous Filament)			
1/8	12N804	12P726	12P727
3/16	12P728	12P729	12P730
1/4	12P731	12P732	12P733
5/16	12P734	12P735	12P736
3/8	12P737	12P738	12P739
7/16	12P740	12P741	12P742
1/2	12P743	12P744	12P745
9/16	12P746	12P747	12P748
5/8	12P749	12P750	12P751
3/4	12P752	12P753	12P754
(F) 5000 Flexible Graphite			
1/8	4VKU4	4VKU5	4VKU6
3/16	4VKU7	4VKU8	4VKU9
1/4	4VKV1	4VKV2	4VKV3
5/16	4VKV4	4VKV5	4VKV6
3/8	4VKV7	4VKV8	4VKV9
7/16	4VKW1	4VKW2	4VKW3
1/2	4VKW4	4VKW5	4VKW6
5/8	4VKW7	4VKW8	4VKW9
3/4	4VKX1	4VKX2	4VKX3

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(G) 5080 Flexible Graphite Packing with Carbon Corners			
1/4	4VKR1	4VKR2	4VKR3
5/16	4VKR4	4VKR5	4VKR6
3/8	4VKR7	4VKR8	4VKR9
7/16	4VKT1	4VKT2	4VKT3
1/2	4VKT4	4VKT5	4VKT6
5/8	4VKT7	4VKT8	4VKT9
3/4	4VKU1	4VKU2	4VKU3
(H) 1367H PTFE			
1/8	4VLR4	4VLR5	4VLR6
3/16	4VLR7	4VLR8	4VLR9
1/4	4VLT1	4VLT2	4VLT3
5/16	4VLT4	4VLT5	4VLT6
3/8	4VLT7	4VLT8	4VLT9
7/16	4VLU1	4VLU2	4VLU3
1/2	4VLU4	4VLU5	4VLU6
5/8	4VLU7	4VLU8	4VLU9
3/4	4VLV1	4VLV2	4VLV3

Square (in.)	5 ft. Item No.	10 ft. Item No.	25 ft. Item No.
(I) 5000W Flexible Graphite Packing with Inconel Wire			
1/8	4VLL4	4VLL5	4VLL6
3/16	4VLL7	4VLL8	4VLL9
1/4	4VLN1	4VLN2	4VLN3
5/16	4VLN4	4VLN5	4VLN6
3/8	4VLN7	4VLN8	4VLN9
7/16	4VLP1	4VLP2	4VLP3
1/2	4VLP4	4VLP5	4VLP6
5/8	4VLP7	4VLP8	4VLP9
3/4	4VLR1	4VLR2	4VLR3



Extractor
No. 4VLV4



Tip
No. 4VLW5



Cutter
No. 4VLX5



Blade
No. 6FLH6



Knife
No. 6FLH5



Extractor Tool Kit Set C
No. 6FLH7

Palmetto®

Compression Packing Extraction and Insertion Tools

Extractors remove compression packing rings from pumps and valves for replacement. Interchangeable corkscrew and woodscrew tips allow removal of both fibrous and hardened packing. Flexible shafts make it easier to remove hard-to-reach packings.

Tamping Tools are used to install packing rings into the stuffing box.

Size	Overall Length	Packing Spaces	Item No.
Solid Shaft Packing Extractor/Pick, Pick Tip			
P-7	10"	⅛" and Up	**4VLW2**
P-8	10"	3⁄16" and Up	**4VLW3**
P-9	10"	5⁄16" and Up	**4VLW4**
Flexible Shaft Packing Extractor, Removable Tip			
F-1	7½"	¼" and Up	**4VLV4**
F-2	11"	⅜" and Up	**4VLV5**
F-3	14½"	½" and Up	**4VLV6**
Flexible Shaft Packing Extractor, Non-Removable Tip			
F-0	6½"	⅛" and Up	**4VLV7**
F-4	19"	⅝" and Up	**4VLV8**
F-5	23"	¾" and Up	**4VLV9**
F-6	30"	1" and Up	**4VLW1**

Size	Overall Length	Item No.
Packing Extractor Replacement Tip, Corkscrew		
C-1	1½"	**4VLW5**
C-2	2"	**4VLW6**
C-3	2½"	**4VLW7**
Packing Extractor Replacement Tip, Woodscrew		
W-1	1½"	**4VLW8**
W-2	2"	**4VLW9**
W-3	2½"	**4VLX1**
Packing Tamping Tools		
¼"	7½"	**12N763**
⅜"	10"	**12N764**
½"	16"	**12N765**
Packing Injection Gun		
—	28"	**12N769** *
Packing Injection Gun Fittings		
¼"	1"	**12N770** *
⅜"	1"	**12N771** *
½"	1"	**12N772** *

**** Injection packing available at Grainger.com®.***

Type	Item No.
Packing Cutters	
Guillotine	**4VLX4**
Hand Held	**4VLX5**
Blade	**6FLH6**
Knife	**6FLH5**

Description	Size	Item No.
Packing Cutter Replacement Blades		
For 4VLX4	1⅛" x 4"	**36G238**
For 4VLX5	1" x 3"	**36G239**

Tip	Includes	Item No.
Packing Extractor Set A		
Corkscrew	(2) 4VLV4, (2) 4VLV5, (1) 4VLW5, (1) 4VLW6, (1) 4VLW2, (1) 4VLW3, (1) 4VLW4, (1) Wrench, (1) Toolbox	**4VLX2**
Packing Extractor Set B		
Corkscrew and Woodscrew	(2) 4VLV4, (2) 4VLV5, (2) 4VLV6, (1) 4VLW5, (1) 4VLW6, (1) 4VLW7, (1) 4VLW8, (1) 4VLW9, (1) 4VLX1, (1) 4VLW2, (1) 4VLW3, (1) 4VLW4, Wrench, Toolbox	**4VLX3**
Tool Kit Set C		
—	(2) 7½" Flexible Extractors With Tips, (2) 11" Flexible Extractors With Tips, (2) 14½" Flexible Extractors With Tips, (2) 6" Stiff Extractors, (2) 10" Stiff Extractors, (2) 14" Stiff Extractors, 10" Pick ⅛" And Up, 10" Pick 3⁄16" And Up, 10" Pick 5⁄16" And Up, (2) 6" O-Ring Extractor, (5) 1½" Cork Screw Tips, (5) 2" Cork Screw Tips, (5) 2½" Cork Screw Tips, 1½" Wood Screw Tip, 2" Wood Screw Tip, 2½" Wood Screw Tip, LG1 Lantern Ring Extractor, LG2 Lantern Ring Extractor, B1 Brush, B2 Brush, Wrench, 5" Packing Knife With Leather Sheath, Plastic Tool Box	**6FLH7**



Palmetto®

Packing Seals

- Standard industry seal 981
- Pkg. of 6

Self-adjusting, shaft-mounted axial lip seals are designed to deflect dust, dirt, mud, and water away from shafts and prevent lubricant loss. Flexible, hinged lip needs no special machining to fit tightly to shaft. Seals automatically vent excess grease during regreasing.

Resilient nitrile rubber (NBR) material stretches over shaft obstructions for easy installation; its natural tension holds the seal in place while the shaft turns.

Shaft Size (in.)	Seal Bore (in.)	Seal Thickness	Item No.
¼	35⁄64	0.190 in	**12N746**
⅜	51⁄64	0.250 in	**12N747**
½	1	0.250 in	**12N748**
⅝	1 15⁄64	0.375 in	**12N749**
¾	1 23⁄64	0.375 in	**12N750**
1	1 39⁄64	0.375 in	**12N751**
1 ¼	1 55⁄64	0.375 in	**12N752**
1 ½	2 7⁄64	0.375 in	**12N753**
1 ¾	2 23⁄64	0.375 in	**12N754**
2	2 39⁄64	0.375 in	**12N755**
2 ¼	2 55⁄64	0.375 in	**12N756**
2 ½	3 7⁄64	0.500 in	**12N757**
2 ¾	3 23⁄64	0.500 in	**12N758**
3	3 39⁄64	0.500 in	**12N759**
3 ¼	3 55⁄64	0.500 in	**12N760**
3 ½	4 7⁄64	0.500 in	**12N761**
4	4 39⁄64	0.500 in	**12N762**

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Pac-Seal Replacement Pump Shaft Seals

- Buna elastomer temp. range: -40° to 225°F
- Viton® elastomer temp. range: -25° to 400°F
- PTFE elastomer temp. range: -350° to 500°F
- 2cc P80 lubricant is included with every seal

Rotary units have crimped head to withstand higher pressures and shaft speeds; stay in-place during installation and protect against being dislodged by foreign material. Hex-torque drive system provides longer seal life and helps reduce wear on shaft.

Types 8T/9T—High-quality, positively driven multispring pusher style for industrial and severe chemical applications. The rotary unit is set-screwed to the shaft for positive drive. Rotaries feature replaceable seal rings. O-ring mount.
- Replace Crane Type 8 and 9, respectively

Type 16—Offer greater pressure and speed capabilities. Unitized rotary seal incorporates crimped-head design and hex-torque drive.
- Replace US Seal Type A, Crane Type 6, and Sealol Type 60L

Types 21/31—Offer dependable sealing in mechanical pumps up to 250 psi. Hex-shaped outer shell reduces stress on components. Type 31 O-ring mount. Nos. 1R316, 5NC05, 1R307, and 1R301 need no spring retainer.
- Replace US Seal Type C, Crane Type 21, and Sealol Type 43

Types 51/52—Convolution in seal bellows allows for greater axial movement and shaft deflection than Type 21. Narrow cross-section for ANSI and DIN 24960 seal bores.
- Replace US Seal Types E, D, and Crane Types 1 and 2


Type 8T/9T


Type 16


Type 21/31

FLOWSERVE Pac-Seal


Type 51/52


Type 68

Type 68—Designed for use in pool and spa pumps. Install with the spring-loaded portion pressed into the pump housing and the mating ring rotating with the shaft.
- Replace US Seal Type B and Crane Type 6A

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore	Seat Thickness	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 8T						
1	1.000	1.625"	0.437 in	VCRJR	—	**5NC50**
Seal Type 9T						
¾	0.937	1.375"	0.406 in	QCRJR	—	**5NC55**
1	1.000	1.625"	0.437 in	QCRJR	—	**5NC56**
1¼	1.000	1.875"	0.437 in	QCRJR	—	**5NC57**
Seal Type 16						
⅝	0.718	1.187"	0.343 in	BMFJF	100	**1R311**
⅝	0.718	1.250"	0.406 in	VCFJF	200V, 516V	**1R300**
⅝	0.718	1.250"	0.406 in	BMFJF	516	**1R303**
⅝	0.718	1.250"	0.406 in	BMFJF	200	**1R312**
⅝	0.812	1.250"	0.406 in	BMFJF	501, 909	**1R315**
¾	0.718	1.375"	0.406 in	VCFJF	201V, 851V	**1R245**
¾	0.718	1.375"	0.406 in	BMFJF	851	**1R299**
¾	0.718	1.375"	0.406 in	BMFJF	201	**1R313**
¾	0.812	1.437"	0.406 in	BMFJF	101	**1R319**
1	0.812	1.625"	0.437 in	BMFJF	360	**5NC01**

MATERIAL CONTENT

Elastomer (1st Letter)	Seal Ring (2nd Letter)	Shell (3rd Letter)	Seat (4th Letter)	Spring (5th Letter)
B = Buna	C = Carbon	F = Stainless Steel	J = Ceramic	F = Stainless Steel
V = Viton®	M = Molded Plastic	R = 316 Stainless Steel	F = Stainless Steel	R = 316 Stainless Steel
Q = PTFE	X = Silicon Carbide		X = Silicon Carbide	
			K = Ni-Resist	

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore	Seat Thickness	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 21						
½	0.750	0.934"	0.237 in	BCFJF	392	**5NC03**
½	0.812	1.000"	0.312 in	BCFJF	168, 1002	**5NC02**
⅝	0.718	1.250"	0.406 in	BCFJF	10619	**5NC06**
⅝	0.875	1.250"	0.406 in	BCFJF	—	**1R304**
⅝	0.875	1.250"	0.406 in	BCFJF	508	**1R316**
⅝	0.875	1.250"	0.375 in	BCFKF	732, 734	**5NC04**
⅝	0.875	1.250"	0.406 in	VCFJF	359V	**5NC07**
⅝	1.312	1.148"	0.312 in	VCRJR	800	**5NC05**
⅝	1.328	1.141"	0.313 in	BCFJF	—	**1R307**
¾	0.718	1.375"	0.406 in	BCFJF	—	**1R308**
¾	0.875	1.375"	0.406 in	VCFJF	—	**1R309**
⅞	0.937	1.500"	0.406 in	BCFJF	309, 703	**5NC08**
1	1.000	1.625"	0.437 in	BCFJF	235, 380, 813	**5NC09**
1	1.000	1.625"	0.437 in	VCFKF	248V	**5NC10**
1⅛	1.062	1.750"	0.437 in	BCFJF	—	**1R301**
1⅛	1.062	1.750"	0.437 in	VXFXF	—	**4P974**
1⅛	1.062	1.750"	0.437 in	BCFJF	356, 344, 604, 814	**5NC11**
1¼	1.062	1.875"	0.437 in	BCFJF	185, 786, 11204	**1R439**
1¼	1.062	1.875"	0.437 in	VCFJF	185V, 786V	**5NC12**
1¼	1.625	1.875"	0.437 in	BCFJF	361-21	**5NC13**
1⅜	1.125	2.000"	0.437 in	BCFJF	177, 491	**5NC14**
1½	1.125	2.125"	0.437 in	BCFJF	758, 382, 11504	**5NC15**
1¾	1.312	2.500"	0.500 in	BCFJF	237, 446	**5NC16**
1¾	2.000	2.500"	0.500 in	BCFJF	205-21	**5NC17**
2	1.500	2.750"	0.500 in	BCFJF	267, 445	**5NC18**

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore	Seat Thickness	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 31						
¾	0.718	1.375"	0.406 in	VXFXF	—	**5NC20**
¾	0.875	1.375"	0.406 in	VXFXF	265VSC	**5NC19**
⅞	0.937	1.500"	0.406 in	VXFXF	250VSC	**5NC21**
1¼	1.062	1.875"	0.473 in	VXFXF	—	**5NC23**
1½	1.125	2.125"	0.473 in	VXFXF	939VSC	**5NC24**
Seal Type 51						
¾	1.312	1.375"	0.406 in	VCRJR	—	**5NC26**
⅞	1.375	1.500"	0.406 in	VCRJR	—	**5NC27**
1	1.562	1.625"	0.437 in	VCRJR	754V	**5NC28**
1⅛	1.625	1.750"	0.437 in	VCRJR	204V	**5NC29**
1¼	1.625	1.875"	0.437 in	VCRJR	361V	**5NC30**
1⅜	1.687	2.000"	0.437 in	VCRJR	354V	**5NC31**
1½	1.687	2.125"	0.437 in	VCRJR	305V, 899V	**5NC32**
1¾	2.000	2.500"	0.500 in	VCRJR	205V	**5NC34**
1⅞	2.125	2.625"	0.500 in	VCRJR	523V	**5NC35**
2	2.125	2.750"	0.500 in	VCRJR	479V	**5NC36**
2¼	2.375	3.125"	0.562 in	VCRJR	—	**5NC38**
Seal Type 52						
1	1.000	1.625"	0.437 in	VCRJR	—	**5NC40**
1¼	1.062	1.875"	0.437 in	VCRJR	—	**5NC42**
1½	1.125	2.125"	0.437 in	VCRJR	—	**5NC43**
Seal Type 68						
⅜	0.615	1.078"	0.210 in	BMFJF	80611	**1R302**
⅜	0.615	1.250"	0.406 in	BMFJF	668	**1R317**
⅜	0.615	1.250"	0.406 in	BMFJF	RS 1000SS	**1R318**
⅜	0.615	shaft mtd	0.225 in	BMFFF	80613	**1R306**
⅜	0.615	shaft mtd	0.225 in	VCFFF	80613V	**1R324**
⅜	0.615	shaft mtd	0.213 in	BMFJF	—	**5NC45**
⅜	0.615	shaft mtd	0.213 in	BCFJF	—	**5NC46**

Inlet	Suction Discharge	Sizing Factor	L	Brand	316 SS Item No.	BRONZE Item No.	CAST IRON Item No.	PVC Item No.
Liquid Operated								
⅜" NPT	¾ in NPT	0.20	5⅞"	Dayton	**5NAR8**	**5NAP4**	—	—
	¾ in NPT	0.20	5⅞"	Dayton	**5NAR9**	**5NAP5**	**5NAN1**	—
½" NPT	1 in NPT	0.34	6⅞"	Dayton	—	—	—	**5NAU3**
	1 in NPT	0.34	7⅛"	Dayton	**5NAT0**	—	—	—
¾" NPT	1 ¼ in NPT	0.61	9"	Dayton	**5NAT1**	**5NAP7**	**5NAN3**	—
	1 ¼ in NPT	0.61	9⅛"	Dayton	—	—	—	**5NAU4**
1" NPT	1 ½ in NPT	1.00	11"	Dayton	—	**5NAP8**	—	—
	1 ½ in NPT	1.00	11⅛"	Dayton	—	—	—	**5NAU5**
1¼" NPT	2 in NPT	1.82	13⅜"	Dayton	—	—	—	**5NAU6**
	2 in NPT	1.82	14⅞"	Dayton	**5NAT3**	—	**5NAN5**	—
1½" NPT	2 in NPT	2.85	13⅜"	GA	—	—	—	**5NAU7**
	2 in NPT	2.85	14⅞"	Dayton	**5NAT4**	**5NAR0**	**5NAN6**	—
Steam Operated								
⅜" NPT	½ in NPT	0.12	4½"	Dayton	**5NAT5**	—	—	—
½" NPT	¾ in NPT	0.20	5⅞"	Dayton	—	**5NAR2**	—	—
¾" NPT	1 in NPT	0.34	7⅛"	Dayton	**5NAT7**	—	**5NAN9**	—
1" NPT	1 ¼ in NPT	0.61	9"	Dayton	—	**5NAR4**	—	—
	1 ½ in NPT	1.00	11"	Dayton	**5NAT9**	**5NAR5**	—	—
1½" NPT	2 in NPT	2.85	14⅞"	Dayton	**5NAU1**	**5NAR7**	**5NAP3**	—

Dayton

GA GRAINGER APPROVED


No. 5NAR8

Eductor Jet Pumps

Pumps use high-pressure liquid or steam to create strong suction within the pump body. The suction draws a second liquid or gas into the pump and then forces it out, under pressure, through the discharge. Suitable for mixing fluids, vacuum pumping water, and seawater desalination.

Temp. range: -40° to 230°F, except liquid-operated PVC is -40° to 70°F. Max. head: 40 ft. Max. suction lift pumping liquids: 27 ft. liquid-operated models, 20 ft. steam-operated models. Inlet pressure pumping liquids: 35 to 150 psi, except 15 to 200 psi liquid-operated with 316 SS and bronze inlet and 15 to 100 psi liquid-operated with PVC inlet. Steam-operated models inlet pressure pumping gases: 20 to 80 psi.

For Liquid-Operated Pumps*

Liquid Suction (gpm)

Discharge Head, ft.	5-ft. Lift 25 psi Water	5-ft. Lift 75 psi Water	5-ft. Lift 200 psi Water	15-ft. Lift 25 psi Water	15-ft. Lift 75 psi Water	15-ft. Lift 200 psi Water	25-ft. Lift 25 psi Water	25-ft. Lift 75 psi Water	25-ft. Lift 200 psi Water
0	32 gpm	38.9 gpm	41 gpm	25 gpm	34 gpm	37 gpm	10 gpm	24 gpm	29 gpm
10	15.1 gpm	38.9 gpm	41 gpm	9.4 gpm	34 gpm	37 gpm	—	24 gpm	29 gpm
20	—	38.9 gpm	41 gpm	—	34 gpm	37 gpm	—	24 gpm	29 gpm
30	—	33 gpm	34.8 gpm	—	28 gpm	31 gpm	—	17.8 gpm	21 gpm
40	—	21 gpm	22.5 gpm	—	17 gpm	18.5 gpm	—	8 gpm	9.6 gpm

For Steam-Operated Pumps*

Liquid Suction (gpm)

Discharge Head	5-ft. Lift 50 psi Water	5-ft. Lift 100 psi Water	5-ft. Lift 150 psi Water	10-ft. Lift 50 psi Water	10-ft. Lift 100 psi Water	10-ft. Lift 150 psi Water	20-ft. Lift 50 psi Water	20-ft. Lift 100 psi Water	20-ft. Lift 150 psi Water
0-40	53 gpm	48 gpm	30 gpm	46 gpm	40 gpm	22 gpm	28 gpm	21 gpm	8 gpm

Gas Suction (cfm)

Suction Pressure	30 psi Steam, Max. Outlet 0 psi	60 psi Steam, Max. Outlet 0 psi	90 psi Steam, Max. Outlet 0 psi
Atmos.	36 cfm	30 cfm	28 cfm
15" Hg	6 cfm	13 cfm	8 cfm

** Charts show suction flow based on a 1½" suction/discharge pipe size. To determine the suction flow for other pipe sizes, use the sizing factor shown in the table as a multiplier. For example, a pump with a 40-ft. discharge head, 5-ft. lift, and 200 psi water pressure, has a suction flow of 22.5 gpm (based on 1½" suction/discharge). For the suction flow of a pump with a 1¼" suction/discharge, multiply 22.5 gpm by the 0.61 sizing factor to get 13.7 gpm.*

Diamond Crystal

No. 36JP55



Hardi-Cube® Water Softener Salt

- 99.8% pure salt
- Ship in pallet quantity

Has an innovative shape for extra hardness, and is specially formulated to resist bridging and mushing in the brine tank. Helps keep your softener clean and trouble free.

Series	Form	Size	Item No.
Hardi-Cube	Tablet	50 lb.	**52ZX54**
Hardi-Cube	Cube	50 lb.	**36JP55**
Iron Fighter	Pellets	40 lb.	**53WX15**
Iron Fighter	Pellets	50 lb.	**45CL36**
Bright & Soft	Pellets	40 lb.	**42DA14**
Bright & Soft	Pellets	50 lb.	**42DA15**
Solar Naturals	Crystals	50 lb.	**52ZX55**

3M Aqua-Pure™



No. 54TL24

Reverse Osmosis Drinking Water System with Faucet

- Max. pressure: 125 psi
- Max. temp.: 100°F
- Max. influent TDS: 1200 mg/L
- Includes tank

This under-the-sink unit helps provide cleaner and better tasting water. Model features multi-stage filtration with separate sediment and chlorine taste and odor filters for membrane module protection. Unit also has a sanitary, encapsulated reverse osmosis membrane, and carbon block post-filter for superior flow from a dedicated faucet. System is powered by residential line pressure and requires no electricity. NPT connections. Meets NSF/ANSI 58.

Description	Pipe Size (in.)	Output (gpd)	Cartridges Req.	H (in.)	W (in.)	L (in.)	Mfr. Model	Item No.
Reverse Osmosis System	¼	13	3	16	11⅝	17½	04-04506	**54TL24**
RO Replacement Sediment/Carbon Prefilter, for use with Mfr. No. 3MRO301							3MROP310	**54EJ89**
RO Replacement Post Carbon Block Filter, for use with Mfr. No. 3MRO301							3MROP316	**54EJ90**

LaMotte PurTest®

No. 4EVZ3



Water Analysis Test Strips and Kits

TEST STRIPS

Monitor water without reagents or full field kits. Use for drinking water, food/beverage processing, and pool/spa water monitoring.

WATER ANALYSIS KITS

On-site kits use EPA-based methods to test tap water safety in private or public systems. Laboratory certified.

Testing Parameter	Range	Brand	Item No.	Pkg. Qty.
Test Strips				
Bromine	0 to 10 ppm	LaMotte	**4EVZ6**	1
Chlorine	10, 50, 100, 200 ppm	LaMotte	**4EWC7**	200
Chlorine Dioxide	0, 10, 25, 50, 100, 250, 500 ppm	LaMotte	**4EVX3**	50
Chlorine Dioxide Low Range	0, 0.25, 0.5, 1, 3, 5, 10 ppm	LaMotte	**4EVZ8**	50
Free Chlorine	0, 0.5, 1, 3, 10 ppm	LaMotte	**4EVZ5**	25
Free Chlorine	0, 50, 100, 250, 500, 800 ppm	LaMotte	**4EVX4**	50
Hardness Low Range	0, 30, 60, 120, 180 ppm	LaMotte	**4EVU5**	50
Hydrogen Peroxide	0, 15, 30, 50, 90 ppm	LaMotte	**4EVU6**	25
Hydrogen Peroxide, Low	0, 1, 3, 10, 30, 50 ppm	LaMotte	**3UEE2**	25
Nitrate	0, 5, 10, 25, 50 ppm	LaMotte	**4EVU9**	50
Peracetic Acid	0, 10, 20, 50, 85, 160 ppm	LaMotte	**4EVX2**	50
Peracetic Acid Low Range	0, 5, 10, 30, 50 ppm	LaMotte	**4EVZ9**	50
pH	3, 4, 5, 6, 7, 8, 9, 10 pH	LaMotte	**4EVT9**	200
QAC	200, 400, 600, 1000, 1500 ppm	LaMotte	**4EVZ3**	50
QAC	50, 100, 200, 400 ppm	LaMotte	**4EVU1**	100
Range pH	4, 5, 6, 7, 8, 9, 10 pH	LaMotte	**4EVU2**	50
Total Chlorine	0, 0.5, 1, 3, 5 ppm	LaMotte	**4EVU3**	50
Total Chlorine	0, 0.25, 0.5, 1 ppm / 3 to 10 ppm	LaMotte	**4EVZ4**	25

Testing Parameter	Brand	Item No.	Pkg. Qty.
Water Analysis Kits			
Copper and Lead	Purtest	**5UZ80**	1
For Bacteria, Lead, Pesticide, Iron, Chlorine, Copper, Nitrate, Nitrite, Alkalinity, pH, and Hardness	Purtest	**5UZ83**	1
For E. Coli, Coliform Bacteria, Nitrates, and Nitrites	Purtest	**5UZ79**	1





No. 490R06

No. 490R03



No. 5ZFW9

Water Softeners

North Star WATER CONDITIONING

PRO PRODUCTS LLC

Long-lasting softening resin has a higher hardness holding capacity than standard resins to condition water more effectively, and to help lengthen the time between regeneration cycles. Models have a 10-yr. limited manufacturer's warranty on resin and salt tanks, 3-yr. limited manufacturer's warranty on electronics.

Note: We recommend that water be analyzed before selecting water treatment equipment.

CABINET

Have AutoSense™ technology that monitors your water usage to determine the optimal regeneration frequency and to help minimize water and salt consumption. High-flow valve for optimal water pressure and a low salt monitor that lets you know when the softener is getting low on salt. No. 490R05 features a self-cleaning sediment filter so there are no messy filters to replace.

2-, 3-, AND 4-TANK

During the regeneration cycle the resin bed is cleaned in the opposite direction of the service flow in order to lift the hardness minerals up and out of the tank while reducing your salt and water use. The high-flow backwash design helps ensure proper bed cleaning and allows you to customize the backwash duration based on your softener application. The high-pressure resin tanks and durable salt storage tanks are designed for long life.

NO. 25FL87

Makes it easy for you to clean and restore resin beds to peak efficiency and help maintain water softener performance.

RUST PREVENTER AND INHIBITORS

Help remove and prevent rust stains caused by irrigation on cement, concrete, driveways, masonry, pavers, exterior walls, and most exterior surfaces. No. 39AP36 is suitable for use where the pH is less than 6. Nos. 39AP34 and 39AP37 are dispensing systems for use with Rust Preventer and Inhibitor, sold separately.

NO. 5ZFW9

Removes iron and rust buildup that coats the resin bed in a water softener.

Max. Grain Cap.	Service Flow Rate (gpm)	Pipe Size (in.)	Salt Storage Capacity (lb.)	No. of Brine Tanks	H (in.)	W (in.)	D (in.)	Mfr. Model	North Star Item No.
Cabinet									
22,500	7	1	200	1	48	16	20	NSC22	**490R03**
30,200	7	1	200	1	48	16	20	NSC31	**490R04**
39,000	10	1	200	1	48	17	21	NSC42	**490R05**
2-Tank									
71,000	15	1	340	1	64	41	17	PA071S	**490R11**
99,000	20	1	1000	1	68	47	24	PA101S	**490R07**
132,000	20	1	1000	1	68	47	24	PA131S	**490R12**
132,000	40	2	1000	1	73	41	24	PA132S	**490R09**
165,000	50	2	1000	1	87	47	24	PA162S	**490R10**
330,000	65	2	1500	1	87	60	31	PA322S	**490R06**
3-Tank									
71,000	15	1	340	1	64	78	17	PA071D	**490R13**
132,000	20	1	1000	1	68	94	24	PA131D	**490R14**
132,000	40	2	1000	1	73	78	24	PA132D	**490R15**
330,000	65	2	1500	1	87	94	31	PA322D	**490R16**
4-Tank									
594,000	60	2	1500	2	87	133	31	PA192T	**490R08**

Description	Pro Products Item No.
Dispensing Systems	
Feeder Dispenser	**25FL87**
Injection Feeder System, Opaque, 30 gal.	**39AP34**
Irrigation Feeder System, Blue, 30 gal.	**39AP37**
Rust Preventor and Inhibitors	
Extreme, Blue, 30 gal.	**39AP36**
Opaque, 30 gal.	**39AP39**
Water Softener Cleaners	
Res Care Liquid Resin Cleaning Solution	**5ZFX1**
Rust Out®, Removes Rust and Iron Buildup	**5ZFW9**
Softener Mate All-Purpose Water Softener Cleaner	**5ZFX0**

Replacement Filter Cartridges

PENTAIR

- Max. pressure: 125 psi
- Max. temp.: 100°F

All filter cartridges are certified for use in potable water applications. NSF Certified under NSF/ANSI 42, except No. 53GK21 is NSF Certified under NSF/ANSI 42 and 53.

Filter Cartridges—Help reduce scale buildup caused by dirt and dissolved minerals. Improve the taste of fountain drinks and coffee.

Replacement Filter Cartridges—Can reduce fine particles and dirt from drinking water and help keep your equipment running and lower your maintenance costs.

Micron Rating	Filter Reduces	For Use With	H	Filter Diameter	Filter Flow Rate	Service Life	Item No.
Filter Cartridge							
5	Chlorine Taste, Odor	Most 10" Bowls	9¾"	2⅞"	1.67 gpm	6000 gal.	**34D337**
5	Chlorine Taste, Odor	Most 20" Bowls	20"	2⅞"	3.34 gpm	12,000 gal.	**34D338**
Replacement Filter Cartridge							
0.5	Chlorine Taste, Cyst, Odor, Scale, Sediment	Everpure Systems	9¾"	2⅞"	1.70 gpm	6000 gal.	**53GK21**
5	Chlorine Taste, Odor, Sediment	Everpure Systems	9¾"	2⅞"	1.70 gpm	6000 gal.	**53GK19**
5	Chlorine Taste, Odor, Sediment	Everpure Systems	20"	2⅞"	3.30 gpm	12,000 gal.	**53GK20**



No. 34D338



No. 53GK21

Drinking Water Systems

- Max. pressure (systems): 125 psi, except No. 25CA78 is 90 psi
- Max. temp. (systems): 100°F
- Polypropylene housing and head
- Cartridge and installation hardware included

Carbon block filter media helps provide better tasting drinking water. No. 5PR95 is a dual-stage system with a multicomposite media filter and automatic shutoff meter that indicates when filter cartridge needs replacing. All systems are NSF Certified.

3M Aqua-Pure™ DUPONT® 3M

NO. 35Z834

Helps reduce lead and cysts while providing one of the highest flow rates for systems in its class without installing a dedicated faucet. Ideal for drinking water fountains and under sink applications.



No. 5PR95



No. 35Z834

Micron Rating	Reduces	For Use With	Brand	Mfr. Model	Item No.	Pkg. Qty.
Replacement Filter Cartridge						
0.5	Chlorine, Taste, Odor, Dirt, Rust, Lead, and Cyst	Mfr. No. AP Easy LC	3M Aqua-Pure	5618046	**1MZU6**	1
0.5	Chlorine, Taste, Odor, Dirt And Rust	Mfr. No. APDWS750	3M Aqua-Pure	5584408	**4LW41**	1
0.5	Chlorine Taste, Odor, Sediment	EVP H-100 Series	3M Aqua-Pure	5631610	**1WXR8**	1
0.5	Chlorine Taste, Odor, Sediment	EVP H-104 and H-200 Series	3M Aqua-Pure	5631611	**1WXR9**	1
5	Asbestos, Chloramines, CTO, Cyst, Lead, MTBE, TTHM, VOC	Mfr. No. H-300	3M Aqua-Pure	5631616	**49X991**	1
5	Chlorine, Taste, Odor, Dirt, Rust and Scale Reduction	Mfr. No. AP510	3M Aqua-Pure	AP51711	**3P781**	1
—	—	5PT08, Two Cartridges	3M Aqua-Pure	5631201	**5PT07**	2

Microns	Reduces	Connection	Cartridges Req.	Overall Height	Service Life	Brand	Systems Mfr. Model	Systems Item No.	Replacement Cartridges Mfr. Model	Replacement Cartridges Item No.
Drinking Water Systems with Faucet										
0.5	Chlorine, Taste, Odor, Dirt, Rust, Lead, Cyst, VOC's, and MTBE	¼" Push Connect	Mfr. No. APDWS 80/90	15¾"	625 gal.	3M Aqua-Pure	5583101	**5PR95**	5585102	**5PR97**
0.5	Chlorine, Taste, Odor, Dirt, Rust, Lead, Lead and Cyst	¼" Push Connect	Mfr. No. C-LC	10½"	500 gal.	3M Aqua-Pure	AP EASY LC COOLER	**1MZU8**	5618046	**1MZU6**
3	Sediment, Chlorine, Taste and Odor	¼" Quick Connect	Mfr. No. WFQTC30001	11¾"	2000 gal.	Dupont	WFQT130005	**25CA78**	WFQTC30001	**25CA81**
Drinking Water Systems without Faucet										
0.2	Taste, Odor, Chlorine, Chloramine, Sediment, Lead, Cysts, MTBE, VOCs, TTHM and Asbestos	⅜" NPT	1	22¼"	1000 gal.	3M	3MDW311	**54EJ86**	3MDW311	**54EJ87**
0.2	Chlorine, Taste and Odor, Lead, Cysts, Select VOC's Dirt and Rust	⅜" NPT	Mfr. No. 3MFF101	16"	6000 gal.	3M Aqua-Pure	5616318	**35Z834**	5613432	**35Z835**
0.5	Sediment, Chlorine, Taste and Odor, Cyst	⅜" Push Connect	Mfr. No. C-Cyst-FF	15 9/32"	2000 gal.	3M Aqua-Pure	5609223	**5REE6**	5610428	**5REE7**
5	Chlorine, Taste, Odor, Dirt, and Rust	⅜" NPT	Mfr. No. AP217	9 13/16"	2000 gal.	3M Aqua-Pure	5528901	**2P075**	5578604	**2P076**



No. 1ECZ8



No. 1EDB5



No. 6XUV2

PENTAIR

Replacement Filter Cartridges

- Max. pressure: 125 psi

For use with any brand quick-change filter system. NSF Certified, except No. 1EDB6.

Micron Rating	Filter Reduces	For Use With	H	Filter Diameter	Filter Flow Rate	Service Life	Max. Temp.	Item No.
0.5	Chlorine Taste, Odor	Mfr. No. 158667-75, 158682-75, 158691-75	8⅞"	2¼"	0.50 gpm	500 gal.	125°F	**1ECZ8**
50	Chloramine, Chlorine Taste, Odor	Mfr. No. 158719-75, 158720-75	12⅛"	2¼"	0.50 gpm	500 gal.	125°F	**1EDB5**
—	Chlorine Taste, Lime, Odor, Scale	Mfr. No. 158723-75, 158724-75	8⅞"	2¼"	0.75 gpm	1700 gal.	125°F	**1EDB6**
—	Chlorine Taste, Odor	Mfr. No. QC10-GAC	9¾"	2 5/16"	0.75 gpm	2500 gal.	100°F	**6XUV2**

Maintain Water Purification and Filtration Systems

Centrally installed water purification and water filtration systems are an ideal way to bring clean, good-tasting drinking water into any building. Help keep your employees healthy by regularly maintaining all of your plumbing strainers and filters. Choose from our selection of filter cartridges that help reduce rust, sediment, scale, odors, and chlorine taste.

Find more water filters at **Grainger.com®** and search for **Water Filter Cartridges**.

Filtration Systems



No. 6XWT9



No. 5WFG5

All systems and replacement cartridges are certified for use in potable water applications.

INSURICE® FILTRATION SYSTEMS, NOS. 5WFG3 AND 5WFG4

Reduce problems in ice machines caused by scale buildup from dirt and dissolved minerals. The Micro-Pure® II media inhibit bacteria growth and reduces chlorine taste and odor, and other contaminants. No. 5WFG4 features a water shutoff, flushing valve, and outlet pressure gauge.

INSURICE® SINGLE PF-I2000, NO. 6XWT9

Ice machine filter system reduces scale buildup from dissolved minerals and dirt, and helps reduce clogging of distribution lines, evaporator plate, and pump. Reduces chlorine taste and odor and other contaminants. Micro-Pure® II media help inhibit bacteria growth.

KLEENSTEAM® II SINGLE SYSTEM, NO. 5WFG5

Delivers filtered water with scale inhibition and deliming capabilities. Dual cartridge system allows for low- or high-flow capacity steamers and allows for future expansion of water needs.

KLEENSTEAM II TWIN SYSTEM, NO. 6XWU2

System delivers high-quality filtered water for steam applications, and has scale inhibitors and deliming capabilities. Dual cartridge design is suitable for low- or high-flow capacity steamers. Improves the performance and helps extend the life of steam equipment. Reduces chlorine-induced corrosion.

SR-X SCALE INHIBITOR FEEDER AND DELIMING SYSTEM, NO. 5WFH3

Provides scale reduction for steam applications as well as deliming capabilities. Include clear SR-X housing, SS-10 cartridge, dip tube assembly, and 2.2-lb. package of ScaleKleen™ for scale removal and deliming.

COLDRINK® 2-MC² SYSTEM, NO. 6XWU0

Improves the taste of fountain beverages and helps retain the beverage's carbonation. Reduces chlorine taste and odor and other contaminants. Micro-Pure® II media help inhibit bacteria growth. Protects beverage system seals, pump, tubing, and small orifices from abrasive wear, clogging, and corrosion.

QL3-BH2 COFFEE FILTER, NO. 6XWU1

Provides premium quality filtered water for coffee and beverage applications. Activated carbon media reduces chlorine taste, odor, and other contaminants. Reduces scale buildup and prevents lime scale from forming in brewers. Micro-Pure® II media help inhibit bacteria growth.

KLEENWARE® HTS-11 SYSTEM, NO. 5WFH4

Inhibits mineral deposits and provides corrosion protection. Helps extend the life of food service equipment. Suitable for use in commercial glassware washers, dishwashers, and warewashing booster heaters.

QC7I FILTER HEAD ASSEMBLY NOS. 5WFG6 AND 5WFG8

Include a built-in water shutoff valve, pressure gauge, and mounting hardware. Accept many Everpure® specialty cartridges including cartridges for ice, coffee, espresso, and fountain beverage machines; see replacement filter cartridges on this page.

SCALEKLEEN™ SCALE REMOVER/DELIMER, NO. 5WFH0

Can be fed into the water system without the use of hazardous chemicals or special piping.

REPLACEMENT FILTER CARTRIDGES

- Max. pressure: 125 psi

Description	Microns	Flow Rate	Connection	Max. Temp.	Max. Pressure	Overall Height	Overall Width	Overall Depth	Std.	Mfr. Model	Item No.
Insurice® 2000 Single System	0.5	1.67 gpm	⅜" NPT	100°F	125 psi	26¼"	8"	5¼"	NSF 42 and 53	EV932401-75	**5WFG3**
Insurice® 2000 Twin System	0.5	3.34 gpm	¾" NPT	100°F	125 psi	25¼"	16½"	5½"	NSF 42 and 53	EV932402-75	**5WFG4**
Insurice® Single PF-i2000	0.5	1.67 gpm	¾" x ⅜" NPT	100°F	125 psi	28"	20"	6"	NSF 42 and 53	EV932421-75	**6XWT9**
KleenSteam® II Single System	5	2.5 gpm	¾" NPT	125°F	125 psi	25½"	20½"	7"	NSF 42	EV979721-75	**5WFG5**
Kleensteam® II Twin System	5	5 gpm	¾" NPT	100°F	125 psi	25½"	20½"	7"	NSF 42	EV979722-75	**6XWU2**
SR-X Scale Inhibitor Feeder and Deliming System	—	6 gpm	¾" NPT	125°F	125 psi	12½"	5¼"	5½"	NSF 42	EV979720-75	**5WFH3**
SR-X Feeder, 6 gpm, 12½"H, 5⅝2" Dia.	0.5	6.0 gpm	¾" NPT	100°F	125 psi	12½"	5¼"	5½"	NSF 42	EV979845-75	**53GK34**
Coldrink® 2-MC² System	0.5	3.34 gpm	¾" NPT	100°F	125 psi	25½"	21½"	6"	NSF 42 and 53	EV932802-75	**6XWU0**
QL3-BH2 Coffee Filter	0.5	0.5 gpm	¼" NPT	100°F	125 psi	16½"	3¾"	4"	NSF 42 and 53	EV927200-75	**6XWU1**
Kleenware® HTS-11 Scale Control Hot Water System	—	15 gpm	¾" NPT	170°F	200 psi	12½"	4¾"	4⅝"	NSF 60	EV979911-75	**5WFH4**

Description	Material of Construc.	Size	Connection	Std.	Mfr. Model	Item No.
Single Filter Head Assembly						
QC7i Single Filter Head	Plastic	⅜"	NPT	NSF 42	EV927241-75	**5WFG6**
Twin Filter Head Assembly						
QC7i Twin Parallel Head	Plastic	¾"	NPT	NSF 42	EV927222-75	**5WFG8**

Description	Function	For Use With	Mfr. Model	Item No.
Scale Remover/Delimer				
SCALEKLEEN™	Reduces Scale	Mfr. No. EV9797-21, EV9797-20	EV979835-75	**5WFH0**

Description	Reduces	Micron Rating	Filter Flow Rate	Filter Diameter	H	Max. Temp.	For Use With	Std.	Mfr. Model	Item No.
Replacement Direct Connect Filter Cartridges										
Claris™ XL Replacement Cartridge	Taste and Odor	5	1.00 gpm	5²³⁄₆₄"	18⁹⁄₁₆"	86°F	Mfr. No. EV4339-23	NSF42	EV433913-75	**34D334**
Claris™ XXL Replacement Cartridge	Taste and Odor	5	1.00 gpm	6⁵⁄₆₄"	18⁹⁄₁₆"	86°F	Mfr. No. EV4339-23	NSF42	EV433914-75	**34D335**
4C Replacement Cartridge	Taste and Odor, Cyst	0.5	0.50 gpm	3"	14¾"	100°F		NSF 42 & 53	EV960100-75	**5WFF7**
AC Replacement Cartridge	Taste and Odor, Cyst	0.5	0.50 gpm	3"	10½"	100°F	Mfr. No. EV9272-41, 5FWJ1	NSF 42 & 53	EV960112-75	**5WFF8**
ESO 7 Replacement Cartridge	Scale,Taste, and Odor	5	0.50 gpm	3"	21"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11	NSF 42 & 53	EV960725-75	**5WFG7**
4H Replacement Cartridge	Sediment, Chlorine, Taste, Odor, Cyst	0.5	0.50 gpm	3¼"	14½"	100°F	Everpure Systems	NSF 42 & 53	EV961100-75	**53GK23**
I20002 Replacement Cartridge	Scale,Taste and Odor, Cyst	0.5	1.67 gpm	3"	21"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11, EV9324-01, EV9324-02	NSF 42 & 53	EV961227-75	**5WFE8**
I40002 Replacement Cartridge	Scale,Taste and Odor	0.5	1.67 gpm	3"	25¼"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11, EV9324-01, EV9324-02	NSF 42 & 53	EV961237-75	**5WFF0**
BH2 Replacement Cartridge	Scale,Taste, and Odor	0.5	0.50 gpm	3"	14¾"	100°F	Mfr. No. EV9272-41, 5FWJ1	NSF 42 & 53	EV961251-75	**5WFF1**
MC2 Replacement Cartridge	Taste and Odor, Cyst	0.5	1.67 gpm	3"	21"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11	NSF 42 & 53	EV961255-75	**5WFE9**
MH2 Replacement Cartridge	Scale,Taste, and Odor,Cyst	0.5	1.67 gpm	3"	21"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11	NSF 42 & 53	EV961326-75	**5WFF4**
XC2 Replacement Cartridge	Taste and Odor, Cyst	0.5	1.67 gpm	3"	25¼"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11	NSF 42 & 53	EV961397-75	**5WFF3**
4CB5 Replacement Cartridge	Chlorine Taste and Odor	5	1.67 gpm	3"	3"	100°F	Mfr. No. EV9259-24, EV9272-41	NSF 42	EV961716-75	**6TFD4**
4CB5S Replacement Cartridge	Scale, Taste and Odor, Chlorine	5	1.67 gpm	3"	12¾"	100°F	Mfr. No. EV9259-24, EV9272-41	NSF 42	EV961726-75	**6TFD5**
OCS² Replacement Cartridge	Scale, Taste and Odor, Chlorine	0.5	0.50 gpm	3"	3"	100°F	Mfr. No. EV9259-24, EV9272-41	NSF 42 & 53	EV961807-75	**6TFD6**
7CB5 Replacement Cartridge	Taste and Odor	5	2.50 gpm	3"	21"	100°F	Mfr. No. EV9272-41, EV9272-22, EV9272-23, EV9259-24, EV9336-11, EV9797-21	NSF 42	EV961816-75	**5WFF2**
OW200L Replacement Cartridge	Scale, Taste and Odor, Chlorine, THM	0.5	0.50 gpm	3"	3"	100°F	Mfr. No. EV9259-24, EV9272-41	NSF 42 & 53	EV961906-75	**6TFD7**
OW2-Plus Replacement Cartridge	Taste and Odor, Cyst	0.5	0.50 gpm	3"	10½"	100°F	Mfr. No. EV9272-41, 5FWJ1	NSF 42 & 53	EV963406-75	**5WFF6**
OW4-Plus Replacement Cartridge	Taste and Odor, Cyst	0.5	0.50 gpm	3"	14¾"	100°F	Mfr. No. EV9272-41, 5FWJ1	NSF 42 & 53	EV963506-75	**5WFF5**
Replacement Pre-Filter Cartridges										
ECP1 10" Prefilter Cartridge	Sediment	1	5.00 gpm	2½"	9¾"	80°F	Mfr. No. EV9795-80	NSF 42	255481-43-75	**5WFH8**
EC210 20" Prefilter Cartridge	Sediment	10	8.00 gpm	2½"	20⅛"	80°F	Mfr. No. EV9795-90	NSF 42	EV953420-75	**5WFG2**
EC110 10" Prefilter Cartridge	Sediment	10	8.00 gpm	2½"	9¾"	80°F	Mfr. No. EV9795-80	NSF 42	EV953440-75	**5WFG1**
7SI Replacement Cartridge	Scale	0.5	3.50 gpm	3"	20¾"	100°F	Mfr. No. 5WFG6, 5WFG8, 5WFJ1	NSF42/53	EV960601-75	**32UL48**
4SI Replacement Cartridge	Scale	0.5	2.00 gpm	3¼"	14½"	100°F	Mfr. No. 5WFG6, 5WFG8, 5WFJ2	NSF42/53	EV960651-75	**32UL49**
7SO Replacement Cartridge	Hardness	—	0.50 gpm	3¼"	20¾"	100°F	Everpure Systems	—	EV960704-75	**53GK22**
E10 10" Coarse Prefilter Cartridge	Sediment	10	8 gpm	5¼"	12½"	100°F	Mfr. No. EV9534-40, EV9534-12, 255481-43	NSF 42	EV979580-75	**5WFH1**
E10 20" Coarse Prefilter Cartridge	Sediment	10	8 gpm	5¼"	22½"	100°F	5WFG2, 5WFH7, 5WFH9	NSF 42	EV979590-75	**5WFH2**
SS-10 Replacement Cartridge	Scale	—	2.00 gpm	1⁵⁄₁₆"	10"	150°F	Mfr. No. EV9797-21, EV9797-20	NSF 42 & 53	EV979902-75	**5WFG0**
HT-10 Replacement Cartridge	Scale	—	15.00 gpm	2½"	9¾"	150°F	Mfr. No. EV9799-11	NSF 42	EV979922-75	**5WFH5**
SS-IMF Replacement Cartridge	Scale	—	2.00 gpm	1⁵⁄₁₆"	8½"	150°F	Mfr. No. EV9795-80	NSF 42	EV979932-75	**5WFF9**

Beverage, Coffee, and Ice Filtration Systems

- Max. pressure: 125 psi
- Max. temp.: 100°F
- For commercial use only
- Connection: ½" inlet/outlet

Effective, easy-to-install solutions that meet the volume, water clarity, and maintenance expectations in most food service applications. Healthcare Cartridges Nos. 40XA65 to 40XA69 help control bacteria in ice makers. All systems and cartridges are NSF Certified.

Cold Beverage Filtration Systems— Provide quality carbonated and noncarbonated beverages in most post-mix systems.

Ice Water Filtration Systems—Can reduce corrosion, sediment, and scale in most commercial cubers and flakers.

Reduces	Microns	Flow Rate (gpm)	Service Life (gal.)	Overall Height	Overall Width	Number of Cartridges Required (Sold Separately)	Mfr. Model	Filtration System Item No.	Cartridge Item No.	3M Healthcare Cartridge (Leaves Chlorine In Water) Item No.
Cold Beverage Filtration Systems										
Sediment, Chlorine, Cysts, Taste, and Odor	0.5	5	14,000	21¼"	4½"	1	5616101	54EK02	54EK03	—
Sediment, Chlorine, Bacteria, Bacteriostatic, Cysts, Taste, Odor	0.2	1.67	25,000	14¾"	5¼"	1	5616201	54EK01	54EJ72	—
Sediment, Chlorine, Bacteria, Bacteriostatic, Cysts, Taste, and Odor	0.2	3.34	35,000	17½"	4½"	1	5616301	54EK14	54EK15	—
	0.2	5	54,000	23½"	4½"	1	5616401	54EK25	54EK26	—
Sediment, Chlorine, Taste and Odor	3	2.1	35,000	17½"	4½"	1	BEV165	54EK20	54EK21	—
	3	3.34	54,000	23½"	4½"	1	BEV195	54EK27	54EK28	—
Ice Water Filtration Systems										
Sediment, Chlorine, Taste, Odor, Cyst, and Scale	0.5	1.5	9000	17"	4"	1	5616003	23NY88	23NY98	40XA69
Chlorine, Taste, Odor, Bacteria, Sediment, Cyst and Scale	0.2	2.1	25,000	14¾"	4½"	1	5616203	23NY90	23NZ01	40XA68
	0.2	3.34	35,000	17½"	8"	1	5616303	23NY92	23NZ03	40XA66
	0.2	5	54,000	23½"	8"	1	5616403	23NY94	23NZ05	40XA65
	0.2	6.68	70,000	18"	16⅞"	2	5624503	23NY96	23NZ03	40XA65
Sediment, Chlorine, Taste, Odor, and Scale	1	1.5	10,000	17"	4"	1	5616004	23NY89	23NY99	40XA69
	3	2.1	25,000	14¾"	4½"	1	5616204	23NY91	23NZ02	40XA68
	3	3.34	35,000	17½"	8"	1	5616304	23NY93	23NZ04	40XA66
	3	5	54,000	23½"	8"	1	5616404	23NY95	23NZ06	40XA65
	3	6.68	70,000	18"	16⅞"	2	5624504	23NY97	23NZ04	40XA65



No. 23NY90

Hot Beverage Water Filtration System

- Max. pressure: 125 psi
- Max. temp.: 100°F

Filtration system helps reduce problems associated with chlorine taste and odor and scale build-up in commercial coffee and tea brewers. NSF Certified.

Reduces	Microns	Flow Rate (gpm)	Service Life (gal.)	Overall Height	Overall Width	Mfr. Model	Filtration System Item No.	Cartridge Item No.
Sediment, Chlorine, Cysts, Taste, Odor and Scale	0.2	5	9000	15½"	4½"	5616001	54EK04	54EK05



No. 54EK04 No. 54EK05

Multiple Equipment Water Filtration Systems

- Max. pressure: 125 psi
- Max. temp.: 100°F

Systems operate with 2 separate streams exiting the manifold, with 1 stream adding a scale inhibitor from a dedicated cartridge, the second stream supplies cold beverage dispensers and includes no added scale inhibitor. Nos. 54EJ74 and 54EJ75 are designed to provide water for combi-ovens and steamers. All systems are NSF Certified.

Reduces	Microns	Service Life (gal.)	Flow Rate (gpm)	Overall Height	Overall Width	Cart. Req.	Mfr. Model	Filtration System Item No.	Repl. Cart. Item No.	Repl. Membrane Item No.
Chlorine, Chloramines, Sediment, TDS, Lead, Cysts	—	—	—	22½	16½	2	5636204	54EJ74	54EJ76	54EJ77
	—	—	—	22½	16½	3	5636203	54EJ75	—	54EJ76
Sediment, Chloramines, Chlorine, Taste, Odor and Scale	5	60,000	5	24¼"	23½"	1	5624204	54EK35	54EK36	—
Sediment,	0.2	54,000	5	24¼"	17¼"	1	5624301	54EK29	54EK30	—
Chlorine, Bacteria,	0.2	70,000	6.68	18"	23½"	1	5625501	54EK33	54EK34	—
Bacteriostatic,	0.2	108,000	10	24¼"	23½"	1	5624201	54EK31	54EK32	—
Cysts, Taste, Odor and Scale	0.2	162,000	15	24¼"	29½"	1	5624102	54EK37	54EK38	—



No. 54EK29

Food Service Replacement Cartridges for Older Systems

- Flow rate: 1.5 gpm
- Max. pressure: 125 psi
- Max. temp.: 100°F
- Connection: ⅜" NPT

Feature quick-change design to reduce contamination during cartridge change-outs. Preactivated carbon block filter media protect equipment and provides better-tasting water. FDA CFR-21 and NSF compliant materials.

Application	Includes	Microns	Service Life	Overall Height	Mfr. Model	Item No.
Water Filter System						
Coffee, Hot/Iced Tea, Espresso & Ice Machines	Mfr. No. CFS8112-S Cartridge	1	10,000 gal.	14⅛"	5581906	1RWJ7

Application	For Use With	Filter Reduces	H	Mfr. Model	Item No.
Enhancement Cartridges					
Commercial Foodservice	3M STM/TSR150 Systems	Chlorine Taste	12"	5631305	54EJ71
Reduction Cartridges					
Commercial Foodservice	3M STM/TSR150 Systems	Chlorine Taste, Odor	12"	5631301	54EJ67
	3M STM/TSR150 Systems	Sediment	12"	CTG S for STM/TSR150	54EJ70
Replacement Filter Cartridges					
Beverage	Mfr. No. MODEL 2-2H	Chlorine Taste, Odor, Sediment	12⅞"	5581705	4NY63
Food Service Cold Water	Mfr. No. CFS7812, CFS6812	Chlorine Taste	17"	5601103	1RWK6
	Mfr. No. CFS7720, CFS6720	Chlorine Taste, Odor, Sediment	18"	5631905	1RWK7
Food Service Hot Water and Ice	Mfr. No. CFS7812-S, CFS6812-S	Cyst, Scale	17"	5601101	1RWK4
	Mfr. No. CFS6720-S, CFS7720-S	Scale, Sediment	13"	5631904	1RWK5
Food Service Ice Maker	Mfr. No. CFS6000, CFS7000 Series Systems	Chlorine Taste, Cyst, Odor, Scale	11"	5601105	49Y025
	Mfr. No. CFS6000, CFS7000 Series Systems	Scale, Sediment	20"	5572003	49Y023
Ice Machine	Mfr. No. IA1-1, IA2-1, IA3-1	Chlorine Taste, Odor, Scale, Sediment	12⅞"	5581708	4NY64
Replacement Membrane					
Commercial Foodservice	3M STM/TSR150 Systems	Chlorine Taste, Odor, Sediment, TDS	12"	5598725	54EJ69
Water Filter Cartridges					
Commercial Foodservice	Everpure Systems	Scale, Sediment	15"	CFS9110-S	54EK07



No. 1RWJ7



No. 1RWK6

Commercial Food Service Retrofit Cartridges

- Max. pressure: 125 psi
- Max. temp.: 100°F

For Everpure® systems and for use as single cartridges or in combination systems. Effectively reduce sediment, chlorine, unpleasant taste and odor, cyst, and scale. The 0.5-micron units for cyst reduction, 1-micron units for normal municipal water, and 5-micron units for heavy dirt loading such as well water applications. Nos. 5PT02, 4DY61, 4DY57, 5PT06, and 4DY59 include Scale Inhibitor. For cold water commercial use only.

Micron Rating	Filter Flow Rate (gpm)	Service Life (gal.)	H	Filter Dia.	Mfr. Model	Item No.
0.5	1.50	9000	14⅜"	3⅜"	5631608	5PT01
	1.50	9000	14⅜"	3⅜"	5631609	5PT02
	—	14,000	18⅜	—	5631710	4DY61
1	1.50	10,000	14⅜"	3⅜"	5631605	5PT03
	1.50	10,000	12⅞"	3⅜₁₆"	5581705	4NY63
	—	12,600	18⅜	—	CFS9112-EL	4DY56
	—	12,600	18⅜	—	5631702	4DY57
5	1.50	4800	14⅜"	3⅜"	5631603	5PT05
	1.50	4800	14⅜"	3⅜"	5631602	5PT06
	—	5,500	18⅜	—	5631706	4DY59



No. 5PT01




No. 3P782 No. 1ZKK3

Point-of-Use Inline Filter Systems

- Max. pressure: 125 psi
- Max. temp.: 100°F

NSF Certified.

Pentair®/Pentek®—Reduce rust, sediment, and come with either FPT connections or John Guest® push-fit connections to ease installation.

3M™ Aqua-Pure™—Inline filters remove sediment, dirt, rust, and chlorine taste and odor. Install on cold water line; not for use with hot water. No. 3P782 also includes a scale inhibitor.

Application	Pipe Size	Pipe Fitting Connection Type	Micron Rating	Filter Flow Rate	H	Filter Diameter	Brand	Mfr. Model	Item No.
Point of Use	¼"	FPT	20	0.75 gpm	10"	2"	Pentair/Pentek	155083-75	**4PAX2**
		FPT	20	0.75 gpm	10"	2"	Pentair/Pentek	155656-75	**4PAX1**
		FPT	5	0.50 gpm	10"	2"	Pentair/Pentek	255631-75	**1EDB1**
		FPT	5	1.00 gpm	10"	2"	Pentair/Pentek	255575-75	**1EDA6**
		Push	5	0.50 gpm	10"	2"	Pentair/Pentek	255635-75	**1EDB3**
		Push	5	1.00 gpm	10"	2"	Pentair/Pentek	255579-75	**1EDA8**
	⅜"	FPT	5	0.50 gpm	10"	2"	Pentair/Pentek	255632-75	**1EDB2**
		FPT	5	1.00 gpm	10"	2"	Pentair/Pentek	255576-75	**1EDA7**
		Push	20	1.00 gpm	10"	2"	Pentair/Pentek	255580-75	**1EDA9**
		Push	6	0.50 gpm	10"	2"	Pentair/Pentek	255636-75	**1EDB4**
Refrigerator/ Ice Maker	¼"	FPT	5	0.50 gpm	8⅜"	2¼"	3M Aqua-Pure	AP717	**3P782**
		Push	5	0.50 gpm	10⅝"	2⅛"	3M Aqua-Pure	5617202	**1ZKK3**
Water Coolers		NPT	5	0.50 gpm	10"	2¼"	Selecto	10	**2P816**



No. 1ECR5

Plastic Filter Cartridge Housing Systems

- Include 1 cartridge

Systems help to deliver high filtration efficiency and sediment capacity, while helping to protect against pressure surges and water hammer. Suitable for drinking and cooking water and all food applications.

Note: Cartridges should be replaced every 3 to 4 months, or when a noticeable drop in pressure occurs.

Reduces	Housing Material	Microns	Color	Max. Pressure	Max. Temp.	Connection	Overall Height	Overall Width	Mfr. Model	Item No.	Repl. Cartridge Item No.
Housings for Small Dia. Cartridges											
Sediment	Polypropylene	5	Blue and Black	125 psi	125°F	⅜" NPT	7⅜"	4⅝"	158581-75	**1ECR5**	**3FRU1**
Sediment, Chlorine Taste and Odor	Polypropylene	5	Blue and Black	125 psi	125°F	¾" NPT	12¼"	5⅛"	150522-75	**1ECR3**	**3FRT9**
Housings for Large Dia. Cartridges											
Sediment, Chlorine Taste and Odor	Polypropylene	25	Blue and Black	100 psi	100°F	1" NPT	13⅛"	7¼"	150518-75	**1ECR2**	**3FRT8**
Sediment	Polypropylene	50	Blue and Black	100 psi	100°F	1½" NPT	13⅛"	7¼"	151084-75	**1ECR4**	**4BA87**




No. 1ZKK5 No. 1ECP7

Plastic Filter Cartridge Housings

- Cartridges sold separately on Grainger.com®
- Refer to filter cartridge listings on page 2707 for applicable cartridges

No. 3BU37—Equipped with manually operated pressure-relief button to relieve internal line pressure and simplify cartridge replacement. Meets NSF Standard 42.

No. 2P275—Internally actuated pressure relief valve facilitates cartridge replacement.

Description	Housing Material	Color	Max. Pressure (psi)	Max. Temp. (°F)	Size	H (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
Housings for Small Dia. Cartridges										
Button Head Pressure Release	SAN Plastic	Clear	125	100	¾" FNPT	13 11/16	4 9/16	3M Aqua-Pure	5529902	**3BU37**
Housing w/ Pressure Release	Polypropylene	Blue	125	125	¾" NPT	12¼	5⅛	Pentair/Pentek	150067-75	**1ECP4**
	Polypropylene	Blue	125	125	¾" NPT	23⅞	5⅛	Pentair/Pentek	150069-75	**1ECP5**
	Polypropylene	Opaque	125	125	¾" NPT	12½"	5⅛"	Pentair/Pentek	150150-75	**4BA78**
	Styrene Acrylonitrile	Clear	125	125	¾" NPT	12¼	5⅛	Pentair/Pentek	150435-75	**1ECP8**
Valve-in-Head	Acetal/Isoplast	Clear	125	100	¾" FNPT	26	4 9/16	3M Aqua-Pure	5530008	**1ZKK5**
Valve-In-Head	Plastic	Clear	125	100	¾" FNPT	14¼	4 9/16	3M Aqua-Pure	5530002	**2P275**
Housings for Large Dia. Cartridges										
High Flow w/ Pressure Release	Polypropylene	Blue	90	100	1" NPT	23⅜	7¼	Pentair/Pentek	150233-75	**4BA77**
	Polypropylene	Blue	100	100	1" NPT	13⅛	7¼	Pentair/Pentek	150237-75	**4BA76**
Housing w/ Pressure Release	Polypropylene	Blue	90	100	¾" NPT	23⅞	7¼	Pentair/Pentek	150467-75	**1ECP9**
	Polypropylene	Blue	90	100	1½" NPT	23⅞	7¼	Pentair/Pentek	150235-75	**1ECP6**
	Polypropylene	Blue	100	100	¾" NPT	13⅛	7¼	Pentair/Pentek	150469-75	**1ECR1**
	Polypropylene	Blue	100	100	1½" NPT	13⅛	7¼	Pentair/Pentek	150239-75	**1ECP7**




No. 49Y028 No. 10U924

Water Filter Systems

Sanitary Quick Change (SQC) design lets you easily change out the cartridge without a filter wrench. Include 1 cartridge.

Reduces	Housing Material	Microns	Color	Max. Pressure	Max. Temp.	Connection	Overall Height	Overall Width	Overall Depth	Mfr. Model	Brand	Item No.	Repl. Cartridge Item No.
Particulate, Rust, Chlorine Taste, Odor and Scale	Plastic	5	Blue	125 psi	100°F	1" NPT	25 1/16"	4½"	4 ½"	5621104	3M Aqua-Pure	**49Y028**	**10U924**
Particulate, Rust, Chlorine Taste and Odor,	Plastic	5	Blue	125 psi	100°F	1" NPT	25 1/16"	4 ½"	4½"	5621102	3M	**2MHW7**	**10U923**
Sediment, Particulate, Dirt and Rust	Plastic	5	Blue	125 psi	100°F	1" NPT	25 1/16"	4 ½"	4½"	5621101	3M	**2MHW6**	**2MHW8**




No. 4PCC1 No. 6YJ19

304 Stainless Steel Single-Cartridge Filter Housings

Housings only; cartridges sold separately.

PENTAIR®/PENTEK®

- 304 stainless steel construction

Feature cast-brass/nickel-plated head and accept a complete range of standard double-open end (DOE) cartridges; see page 2709. Include cap and sump.

3M™ AQUA-PURE™

- 316 stainless steel head

Housings withstand unusually high pressures and are easy to install on incoming water lines. Design allows quick cartridge replacement. Include mounting bracket.

Size	Max. Pressure (psi)	Max. Temp. (°F)	H (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
¾" NPT	250	275	12⅞	4⅛	Pentair/Pentek	156017-75	**4PCC1**
¾" NPT	300	200	12 1/32	4 5/32	3M Aqua-Pure	5592001	**6YJ19**

Description	For Use With	Brand	Mfr. Model	Item No.
Mounting Bracket	ST Series Housings	Pentair/ Pentek	156037-75	**4PAX3**

Cast-Iron and Steel Housings and Micro-Klean RT Cartridges

HOUSINGS
- Max. pressure: 150 psi
- Max. temp.: 250°F

Center-post construction and a 3-pc. housing that is easy to disassemble for cleaning.

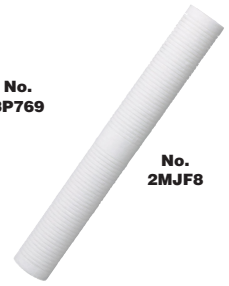
Note: Not for use with potable water applications.

CARTRIDGES
- 2.6" O.D.; 1" I.D.
- 15 psid at 176°F (1.0 bar at 80°C)
- 25 psid at 140°F (1.7 bar at 60°C)
- 60 psid at 68°F (4.1 bar at 20°C)
- Double open end (DOE)

Thermally bonded filter cartridges provide low operating pressure drop and longer service life, allowing higher flow rates per 10" length. The rigid structure resists compression and unloading at higher pressure differentials. Ideal for use in general industrial, water, and food and beverage applications. FDA 21 CFR compliant, NSF 42 and 61 certified.



No. 3P769



No. 2MJF8

Cartridges Req.	Size	Outside Dia. (in.)	H (in.)	Mfr. Model	Item No.
Housings					
3	1½"	7⅝	19¾	3AL1	**3P769**
6	2"	9½	20½	6AL1	**3P770**

Micron Rating	10" Filter Flow Rate	10" Mfr. Model	10" Item No.	20" Filter Flow Rate	20" Mfr. Model	20" Item No.	30" Filter Flow Rate	30" Mfr. Model	30" Item No.	40" Filter Flow Rate	40" Mfr. Model	40" Item No.
Cartridges												
1	10.00 gpm	RT10Y16G20NN	**2MJF8**	20.00 gpm	RT20Y16G20NN	**2MJG5**	30.00 gpm	RT30Y16G20NN	**2MJH2**	40.00 gpm	RT40Y16G20NN	**2MJH8**
5	10.00 gpm	RT10B16G20NN	**2MJF9**	20.00 gpm	RT20B16G20NN	**2MJG6**	30.00 gpm	RT30B16G20NN	**2MJH3**	40.00 gpm	RT40B16G20NN	**2MJH9**
10	10.00 gpm	RT10C16G20NN	**2MJG1**	20.00 gpm	RT20C16G20NN	**2MJG7**	30.00 gpm	RT30C16G20NN	**2MJH4**	40.00 gpm	RT40C16G20NN	**2MJJ1**
25	10.00 gpm	RT10F16G20NN	**2MJG2**	20.00 gpm	RT20F16G20NN	**2MJG8**	30.00 gpm	RT30F16G20NN	**2MJH5**	40.00 gpm	RT40F16G20NN	**2MJJ2**
50	10.00 gpm	RT10L16G20NN	**2MJG3**	20.00 gpm	RT20L16G20NN	**2MJG9**	30.00 gpm	RT30L16G20NN	**2MJH6**	40.00 gpm	RT40L16G20NN	**2MJJ3**
75	10.00 gpm	RT10Q16G20NN	**2MJG4**	20.00 gpm	RT20Q16G20NN	**2MJH1**	30.00 gpm	RT30Q16G20NN	**2MJH7**	40.00 gpm	RT40Q16G20NN	**2MJJ4**

Filter Cartridges

3M Aqua-Pure™

- Max. pressure: 125 psi

Fit most filter housings. Flow rate doubles when filter is used in a 2-high sump.

Note: For proper operation, water must be microbiologically safe.



No. 1P753



No. 1P754

POLYPROPYLENE

Progressive porosity cartridges are rated for long life under extra-heavy dirt loading. Nonfiber-shredding construction withstands high pressure drops. Conform to all public health requirements for water purification. FDA CFR 21 compliant materials, except for No. 2LMU1.

CARBON

Feature radial flow design that provides very low pressure drop.

Filter Reduces	Micron Rating	Filter Flow Rate	Max. Temp.	H	Filter Diameter	Mfr. Model	Item No.	Pkg. Qty.
Polypropylene								
Chlorine Taste, Odor	5	8.00 gpm	170°F	9¾"	2⅝"	5620404	**1P753**	2
Rust, Sediment	5	20.00 gpm	100°F	9¾"	4⅝"	5618902	**4LW37**	1
	5	45.00 gpm	100°F	20"	4⅝"	5618903	**4RP83**	1
	25	20.00 gpm	100°F	9¾"	4⅝"	5618904	**4RP82**	1
	25	45.00 gpm	100°F	20"	4⅝"	5618905	**4RP84**	1
	50	8.00 gpm	100°F	9¾"	2⅝"	AP124	**4LW36**	2
Sediment	50	16.00 gpm	170°F	20"	2½"	5620603	**2LMU1**	1
Carbon								
Chlorine Taste, Odor, Sediment	25	10.00 gpm	100°F	9¾"	4½"	5602719	**1ZKX3**	1
	25	20.00 gpm	100°F	20"	4½"	5602721	**1ZKK2**	1
Odor, Rust, Sediment	5	3.00 gpm	100°F	9¾"	3"	5541731	**1P754**	2

Nylon Filter Cartridge Housings

PENTAIR

- Max. pressure: 125 psi
- Max. temp.: 165°F
- Cartridge not included

Withstand higher temperatures than standard polypropylene (plastic) housings. Economical alternative to stainless and carbon steel housings. No pressure relief. No. 4BB50 has a slim design that saves space.



No. 4BA75



No. 4BB50

Size	Cartridges Req.	H (in.)	Dia. (in.)	Flow Rate (gpm)	Item No.
½" NPT	1	11¾	4⅜	8	**4BB50**
¾" NPT	1	12⅛	5⅛	8	**4BA74**
¾" NPT	1	22¼	5⅛	20	**4BA75**

Stainless Steel Multicartridge Filter Housings

PENTAIR

3M Aqua-Pure™

Easy to install on incoming water lines. Models with 316L stainless steel construction offer greater corrosion resistance and longer life than 304 stainless steel housings. Filter cartridges for all housings are available on this page.

Note: Actual filter operating temperature depends on the capability of the filter cartridge used in the housing.



No. 38FH51



No. 1ZKK7

PENTAIR®/PENTEK®
- Max. pressure: 125 psi
- Max. housing temp.: 300°F

Feature a band clamp closure that makes cartridge change-outs quick and easy. Suitable for a wide variety of commercial and industrial applications.

3M™ AQUA-PURE™
- Max. pressure: 150 psi
- Max. temp.: 250°F

A single housing clamp and locking hand knob on the internal center rod help simplify cartridge changes. For use in high-temperature/high-pressure/high-flow-rate industrial applications, hotels, offices, schools, restaurants, laundromats, and commercial buildings. Nos. 1ZKK6 to 1ZKK8 feature an electro-polished exterior finish that provides a mirror-like appearance and a high level of corrosion resistance.

Size	Cartridges Req.	Flow Rate (gpm)	H (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
304 Stainless Steel							
2" FNPT	3	—	33½	6 11/16	Pentair/Pentek	ESC3202NB410-75	**38FH51**
	5	—	33 57/64	7 57/64	Pentair/Pentek	ESC5202NB410-75	**38FH54**
	5	—	43 11/16	7 57/64	Pentair/Pentek	ESC5302NB410-75	**38FH56**
	7	—	44 3/32	9 51/64	Pentair/Pentek	ESC7302NB410-75	**38FH59**
316L Stainless Steel							
2" FNPT	5	—	33 57/64	7 57/64	Pentair/Pentek	ESC5202NB6L10-75	**38FH55**
	5	—	43 11/16	7 57/64	Pentair/Pentek	ESC5302NB6L10-75	**38FH57**
	7	—	34 19/64	9 51/64	Pentair/Pentek	ESC7202NB6L10-75	**38FH58**
Electro Polish 316 Stainless Steel							
1½" NPT	4	32	19½	8	3M Aqua-Pure	4808713	**1ZKK6**
2" NPT	8	64	29½	8	3M Aqua-Pure	4808714	**1ZKK7**
	12	96	39½	8	3M Aqua-Pure	4808715	**1ZKK8**

3M Aqua-Pure™

Scale Inhibitor Systems and Cartridges

- Max. pressure: 125 psi
- Max. temp.: 100°F

Inhibit hard water scale in water heater systems, boilers, and cooling towers.



No. 3P776



No. 3P777

NO. 3P776

Media compound prevents scale buildup in residential and small commercial water heaters. Ideal for tank and tankless water heaters. Easy-to-install unit does not impart any taste or odor. USDA and FDA approved.

Description	Micron Rating	Filter Flow Rate	Connection	Overall Height	Overall Depth	Mfr. Model	Item No.
Anti-Scale Filter System	—	10.00 gpm	¾" NPT	10¼"	2¾"	AP43011	**3P776**
Replacement Filter Cartridge for No. 3P776	—	10.00 gpm	—	8"	2¾"	AP43111	**3P777**
Graded Density Filter Cartridge, Pkg. of 2	5	8.00 gpm	—	9¾"	2⅝"	5560907	**3P775**


No. 4BA69


No. 3ANY8


No. 5REF6

3M PENTAIR Aqua-Pure™

Filter Housing Accessories

Additional O-rings, bag filter magnets, and strainer baskets are available on Grainger.com®.

Item	For Use With	Brand	Item No.
Mounting Brackets			
Mounting Bracket Kit	½ and ⅜" Polypropylene Housings	Pentair/Pentek	**4BB49**
	¾" Polypropylene Housings	Pentair/Pentek	**4BA69**
	¾" Polypropylene Housings	Pentair/Pentek	**4BA84**
	BB Polypropylene Housings	Pentair/Pentek	**3ANY8**
O-Ring for 3M Housings			
O-Ring	1ZKK6, 2P518, 1ZKK7, 1ZKK8, 2P520	3M Aqua-Pure	**5REF6**
Spanner Wrenches			
Housing Wrench	½" Polypropylene Housings	Pentair/Pentek	**4BA71**
	¾" Polypropylene Housings	Pentair/Pentek	**4BA72**
	10" BB Housings	Pentair/Pentek	**4BA73**
	20" BB Housings	Pentair/Pentek	**4BA68**


No. 4BA68

PENTAIR

Versaflex™ Melt Blown Polypropylene Filter Cartridges

- 2½" O.D.
- Max. temp.: 180°F
- Double open end (DOE)

100% pure polypropylene cartridges are manufactured with FDA-listed materials. A thermal bonding process seals the melt blown media to the endcaps. Graded-density matrix traps and holds dirt. Suitable for finish machining, food and beverage handling, oils, parts washers, RO system prefiltration, seal protection, solvents, and spray nozzle protection.


No. 4PCA2

Micron Rating	10" Height 5.00 gpm Flow Rate Mfr. Model	Item No.	20" Height 10.00 gpm Flow Rate Mfr. Model	Item No.
1	555055-75	**4PCA2**	555056-75	**4PCA6**
5	555245-75	**4PCA3**	455894-75	**4PCA7**
10	555441-75	**4PCA4**	555225-75	**4PCA8**
25	555217-75	**4PCA5**	555442-75	**4PCA9**

KeepStock® Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**


No. 1LPA8

Parker domnick hunter

String-Wound Filter Cartridges

- 2 7/16" O.D., 1" I.D.
- Pkg. of 6

Single-piece construction eliminates spacers and bypassing. Fulflo® Honeycomb depth cartridges trap the solid particles on and within the depth of the entire cartridge. Fit all similar competitive housings. Can be used in many fluid applications including oxidizing agents, concentrated alkalies, potable liquids, dilute acids, and alkalies. Also suitable for use with mineral acids, organic acids, solvents, petroleum oils, photo solutions, amines, and water. Filter media selection is application dependent.

Micron Rating	10" Height Filter Flow Rate	Item No.	20" Height Filter Flow Rate	Item No.	30" Height Filter Flow Rate	Item No.
FDA Cotton, Polypropylene, Max. Temp.: 120°F						
1	3.00 gpm	**3P811**	6.00 gpm	**5P254**	9.00 gpm	**5P259**
5	4.00 gpm	**3P812**	8.00 gpm	**5P255**	12.00 gpm	**5P260**
10	5.00 gpm	**3P813**	10.00 gpm	**5P256**	15.00 gpm	**5P261**
20	6.00 gpm	**3P814**	12.00 gpm	**5P257**	18.00 gpm	**5P262**
50	6.00 gpm	**3P815**	12.00 gpm	**5P258**	18.00 gpm	**5P263**
75	6.00 gpm	**1LPA8**	12.00 gpm	**1LPA6**	18.00 gpm	**1LPA4**
100	6.00 gpm	**1LPA9**	12.00 gpm	**1LPA7**	18.00 gpm	**1LPA5**
FDA Cotton, Stainless Steel, Max. Temp.: 250°F						
1	3.00 gpm	**3P802**	6.00 gpm	**1LPH4**	9.00 gpm	**3P807**
5	4.00 gpm	**3P803**	8.00 gpm	**5P271**	12.00 gpm	**3P808**
10	5.00 gpm	**3P804**	10.00 gpm	**5P290**	15.00 gpm	**3P809**
25	6.00 gpm	**3P805**	12.00 gpm	**5P291**	18.00 gpm	**3P810**
50	6.00 gpm	**3P806**	12.00 gpm	**5P270**	18.00 gpm	**5P292**
75	6.00 gpm	**1LPB5**	—	—	—	—
100	6.00 gpm	**1LPB6**	12.00 gpm	**1LPB4**	18.00 gpm	**1LPB2**
FDA Cotton, Steel, Tin, Max. Temp.: 250°F						
1	3.00 gpm	**3P795**	6.00 gpm	**5P283**	9.00 gpm	**3P799**
5	4.00 gpm	**5P282**	8.00 gpm	**5P284**	12.00 gpm	**3P800**
10	5.00 gpm	**3P796**	10.00 gpm	**5P285**	15.00 gpm	**5P288**
25	6.00 gpm	**3P797**	12.00 gpm	**5P286**	18.00 gpm	**3P801**
50	6.00 gpm	**3P798**	12.00 gpm	**5P287**	18.00 gpm	**5P269**
75	6.00 gpm	**1LPA2**	12.00 gpm	**1LNZ9**	—	—
100	6.00 gpm	**1LPA3**	12.00 gpm	**1LPA1**	18.00 gpm	**1LNZ8**
FDA Polypropylene, Max. Temp.: 120°F						
1	3.00 gpm	**1LPF1**	6.00 gpm	**1LPF8**	9.00 gpm	**1LPG6**
5	4.00 gpm	**1LPF2**	8.00 gpm	**1LPF9**	12.00 gpm	**1LPG7**
10	5.00 gpm	**1LPF3**	10.00 gpm	**1LPG1**	15.00 gpm	**1LPG8**
20	6.00 gpm	**1LPF4**	12.00 gpm	**1LPG2**	18.00 gpm	**1LPG9**
50	6.00 gpm	**1LPF5**	12.00 gpm	**1LPG3**	18.00 gpm	**1LPH1**
75	6.00 gpm	**1LPF6**	12.00 gpm	**1LPG4**	18.00 gpm	**1LPH2**
100	6.00 gpm	**1LPF7**	12.00 gpm	**1LPG5**	—	—
Glass Fiber, Max. Temp.: 750°F						
0.5	5.00 gpm	**4NUX4**	10.00 gpm	**4NUY3**	—	—
1	5.00 gpm	**4NUX5**	10.00 gpm	**4NUY4**	—	—
5	5.00 gpm	**4NUX6**	10.00 gpm	**4NUY5**	—	—
10	5.00 gpm	**4NUX7**	10.00 gpm	**4NUY6**	—	—
20	5.00 gpm	**4NUX8**	—	—	—	—
40	5.00 gpm	**4NUX9**	10.00 gpm	**4NUY8**	—	—
100	5.00 gpm	**4NUY1**	—	—	—	—
150	5.00 gpm	**4NUY2**	10.00 gpm	**4NUZ1**	—	—
Polypropylene, Max. Temp.: 120°F						
1	3.00 gpm	**3P786**	6.00 gpm	**5P264**	—	—
5	4.00 gpm	**3P787**	8.00 gpm	**5P265**	12.00 gpm	**3P791**
10	5.00 gpm	**3P788**	10.00 gpm	**5P266**	15.00 gpm	**3P792**
25	6.00 gpm	**3P789**	12.00 gpm	**5P267**	18.00 gpm	**3P793**
50	6.00 gpm	**5P297**	12.00 gpm	**5P268**	18.00 gpm	**3P794**
75	6.00 gpm	**1LNZ5**	12.00 gpm	**1LNZ3**	18.00 gpm	**1LNZ1**
100	6.00 gpm	**1LNZ6**	12.00 gpm	**1LNZ4**	18.00 gpm	**1LNZ2**

Parker domnick hunter

Large-Diameter String-Wound Filter Cartridges

- 4½" O.D., 1" I.D.
- Pkg. of 6

These 4½" O.D. cartridges offer superior life and performance to most 2.5" dia. cartridges. Cotton and polypropylene material are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.

Micron Rating	9⅞" Height 8.00 gpm Flow Rate Item No.	20" Height 16.00 gpm Flow Rate Item No.
FDA Cotton, Max. Temp.: 250°F		
1	—	4NVP1
5	4NVN5	4NVP2
10	—	4NVP3
20	4NVN7	4NVP4
50	4NVN8	4NVP5
100	—	4NVP6
Polypropylene, Max. Temp.: 120°F		
1	4NVL1	4NVL7
5	4NVL2	4NVL8
10	4NVL3	4NVL9
20	4NVL4	4NVN1
50	4NVL5	4NVN2
100	4NVL6	4NVN3



No. 4NVL1

MicroKlean™ D Series Blanket-Wound Filter Cartridges

3M

- 2½" O.D., 1" I.D.

Suitable for food and beverage and other regulated applications. Allow for very low pressure drops, high flow rates, longer filter life, and more cost-effective filtration. Ideal for potable water, food processing, electronics, and electroplating applications. Components are CFR 21 compliant.

Micron Rating	9⅞" Height 5.00 gpm Flow Rate Mfr. Model	Item No.	19½" Height 10.00 gpm Flow Rate Mfr. Model	Item No.	29¼" Height 15.00 gpm Flow Rate Mfr. Model	Item No.
Cotton, Stainless Steel, Max. Temp.: 250°F						
0.5	—	—	DCCSZ2	2UDJ2	—	—
1	DCCSY1	2PWX7	DCCSY2	2UDJ3	DCCSY3	2UDL5
3	DCCSA1	2UDG2	—	—	DCCSA3	2UDL6
5	DCCSB1	2UDG3	DCCSB2	2UDJ5	DCCSB3	2UDL7
10	DCCSC1	2UDG4	DCCSC2	2UDJ6	—	—
25	DCCSF1	2UDG5	DCCSF2	2UDJ7	DCCSF3	2UDL9
50	DCCSL1	2UDG6	DCCSL2	2UDJ8	DCCSL3	2UDN1
75	—	—	—	—	7010314624	2UDN2
100	DCCSV1	2UDG8	—	—	DCCSV3	2UDN3
350	DCCSW1	2UDG9	DCCSW2	2UDK2	—	—
Polypropylene, Max. Temp.: 150°F						
0.5	DPPPZ1	2UDH1	DPPPZ2	2UDK3	DPPPZ3	2UDN5
1	DPPPY1	2UDH2	DPPPY2	2UDK4	DPPPY3	2UDN6
3	DPPPA1	2UDH3	—	—	DPPPA3	2UDN7
5	DPPPB1	2UDH4	DPPPB2	2UDK6	DPPPB3	2UDN8
10	DPPPC1	2UDH5	DPPPC2	2UDK7	DPPPC3	2UDN9
25	DPPPF1	2UDH6	DPPPF2	2UDK8	DPPPF3	2UDP1
50	DPPPL1	2UDH7	DPPPL2	2UDK9	DPPPL3	2UDP2
75	DPPPQ1	2UDH8	—	—	—	—
100	DPPPV1	2UDH9	—	—	DPPPV3	2UDP4
350	—	—	DPPPW2	2UDL3	DPPPW3	2UDP5



No. 2PWX7

PENTAIR

Filter Cartridges

- Double open end (DOE)
- Fit most manufacturers' housings

No. 1ECZ5 features Endurawrap™ design, an innovative polyolefin bilaminate prefilter that can increase cartridge life by trapping sediment that typically plugs carbon block cartridges. Suitable for under-sink installation.

Series	Filter Reduces	For Use With	Micron Rating	Filter Flow Rate	Max. Temp.	H	Filter Diameter	Std.	Item No.
Filter Cartridge									
—	Oil	20" Big Blue Housings	—	10.00 gpm	125°F	20"	4½"	—	4BB22
C2	Chlorine Taste, Odor, Sediment	5" Housings	5	2.00 gpm	125°F	4⅛"	2½"	—	6RKE9
CBC-5	Chlorine Taste, Odor, Dirt, Sand, Sediment	5" Housings	0.5	1.00 gpm	180°F	4⅞"	2⅞"	—	4PCC9
CBR2	Chlorine Taste, Odor, Sediment	10" Housings	0.5	0.60 gpm	165°F	9¾"	2⅞"	NSF 42	1ECZ5
CC-10	Chlorine Taste, Odor, MTBE, VOC	10" Housings	20	1.00 gpm	125°F	9¾"	2⅞"	NSF 42	4BA89
CFB	Chlorine Taste, Odor, Sediment	10" Housings	0.5	1.00 gpm	180°F	9¾"	2⅞"	NSF 42	6RKE5
	Chlorine Taste, Odor, Sediment	10" Housings	10	1.00 gpm	180°F	9¾"	2⅝"	NSF 42	6RKE6
	Chlorine Taste, Odor, Sediment	10" Housings	10	1.00 gpm	180°F	9¾"	2⅞"	NSF 42	6RKE7
	Chlorine Taste, Odor, Sediment	20" Housings	10	2.00 gpm	180°F	20"	2⅞"	NSF 42	6RKE8
CFB Plus	Chlorine Taste, Odor, Sediment	10" Housings	5	1.00 gpm	180°F	9¾"	2⅞"	NSF 42	4PCC2
	Chlorine Taste, Odor, Sediment	10" Big Blue Housings	5	2.00 gpm	180°F	9¾"	4⅝"	NSF 42	6RKE3
	Chlorine Taste, Odor, Sediment	20" Big Blue Housings	5	4.00 gpm	180°F	20"	4⅝"	NSF 42	6RKE4
CRFC-BB	Chloramine, Sediment	10" Housings	1	0.50 gpm	125°F	9¾"	2⅞"	NSF 42	1EDA3
	Chloramine, Sediment	20" Big Blue Housings	25	2.50 gpm	125°F	20"	4½"	NSF 42	1ECZ9
EP	Chlorine Taste, Odor, Sediment	10" Big Blue Housings	5	2.00 gpm	180°F	9¾"	4⅝"	NSF 42	4PCD1
	Chlorine Taste, Odor, Sediment	20" Big Blue Housings	5	4.00 gpm	180°F	20"	4⅝"	NSF 42	4PCD2
EPM	Chlorine Taste, Odor, Sediment	10" Housings	10	1.00 gpm	180°F	9¾"	2⅞"	NSF 42	4PCC8
	Chlorine Taste, Odor, Sediment	20" Housings	10	2.00 gpm	180°F	20"	2⅞"	NSF 42	4PCD3
GAC	Chlorine Taste, Odor	10" Housings	—	1.00 gpm	125°F	9¾"	2⅞"	NSF 42	53DP69
RFC	Chlorine Taste, Odor, Sediment	10" Housings	70	2.00 gpm	125°F	9¾"	4½"	NSF 42	53DT17
	Chlorine Taste, Odor, Sediment	20" Housings	70	4.00 gpm	125°F	20"	4½"	NSF 42	53DT20
Thermally Bonded Filter Cartridge									
PolyDepth®	Dirt, Rust, Sand, Scale, Silt	10" Housings	5	2.00 gpm	175°F	9¾"	2⅝"	NSF 42	1ECZ7



No. 6RKE9



No. 4BA89



No. 4PCD1



No. 1ECZ7

PENTAIR

Pleated Filter Cartridges

- Double open end (DOE)

Pleated design increases surface area for better dirt-holding capacity and longer filter life.

Polyester—Bacteria- and chemical-resistant. No. 4BA87 meets NSF 42.

Cellulose Polyester—Resin-impregnated cellulose/polyester fiber blend provides higher wet strength than regular cellulose cartridges. Offer high flow rates and dirt-holding capability, while maintaining extremely low pressure drops.

Cellulose—Economical prefilter for dirt and sediment reduction in applications with chlorinated water.

Micron Rating	Filter Diameter	9¾" Height Filter Flow Rate	Item No.	20" Height Filter Flow Rate	Item No.
Polyester, Max. Temp.: 125°F					
30	2⅝"	10.00 gpm	4BA85	10.00 gpm	4BB20
	4½"	10.00 gpm	4BA88	20.00 gpm	4BB21
50	2⅝"	10.00 gpm	4BA86	—	—
	4½"	10.00 gpm	4BA87	—	—
Cellulose, Polyester, Max. Temp.: 125°F					
1	2⅞"	10.00 gpm	4PAX4	10.00 gpm	4PAX6
	4½"	20.00 gpm	4PAY1	20.00 gpm	4PAY4
5	2⅞"	10.00 gpm	4PCC5	10.00 gpm	4PAX7
	4½"	20.00 gpm	4PAY2	20.00 gpm	4PCC4
20	2⅞"	10.00 gpm	4PCC6	10.00 gpm	4PAX8
	4½"	20.00 gpm	4PCC3	20.00 gpm	4PCC7
50	2⅞"	10.00 gpm	4PAX5	10.00 gpm	4PAX9
	2⅞"	—	—	10.00 gpm	4PAX9
	4½"	20.00 gpm	4PAY3	20.00 gpm	4PAY5
Cellulose, Max. Temp.: 145°F					
20	2 1/16"	10.00 gpm	53DP12	—	—
	4½"	—	—	10.00 gpm	4BA91



No. 4BA85



No. 4PAY1


No. 4NVU4

Pleated Polypropylene Filter Cartridges

- Max. temp.: 160°F
- Double open end (DOE)

POLYFLOW®-G

Thermally bonded 100% virgin polypropylene ensures clean filtrates and excellent chemical/thermal compatibility. Ideal for solvent filtration, liquid clarification, recirculation, general water filtration, reagent-grade chemicals, and DI/RO prefiltration.

ABSO-MATE™ ABSOLUTE RATED

All-polypropylene construction is compatible with most chemicals, acids, bases, and solvents. Backwashable. 1-pc. construction eliminates bypass. Ideal for membrane prefilter and chemical-handling applications. FDA Listed.

Parker domnick hunter

Micron Rating	10" Height Filter Flow Rate	10" Height Item No.	20" Height Filter Flow Rate	20" Height Item No.
Polyflow®-G, 2¾" O.D.				
0.2	5.00 gpm	**4NVU4**	10.00 gpm	**4NVU7**
0.5	5.00 gpm	**4NVU5**	10.00 gpm	**4NVU8**
30	10.00 gpm	**4NVU6**	20.00 gpm	**4NVU9**
Abso-Mate™ Absolute Rated, 2¹¹⁄₁₆" O.D.				
0.2	10.00 gpm	**4NVJ5**	20.00 gpm	**4NVK3**
0.45	10.00 gpm	**4NVJ6**	20.00 gpm	**4NVK4**
1	10.00 gpm	**4NVJ7**	20.00 gpm	**4NVK5**
5	10.00 gpm	**4NVJ8**	—	—
10	10.00 gpm	**4NVJ9**	—	—
20	10.00 gpm	**4NVK1**	—	—
40	10.00 gpm	**4NVK2**	20.00 gpm	**4NVK9**

PENTAIR

DGD Series Dual-Gradient-Density Cartridges


No. 4BA93

- 4½" O.D.
- Max. temp.: 145°F
- Double open end (DOE)

100% pure polypropylene construction has high chemical compatibility. Combines selective final filtration with appropriate prefiltration for up to 3 times the dirt holding capacity of similar-sized sediment cartridges, and even greater capacity than standard spun or string-wound cartridges. NSF Certified.

Micron Rating	9⅞" Height Filter Flow Rate	9⅞" Height Item No.	20" Height Filter Flow Rate	20" Height Item No.
1	10.00 gpm	**4BA94**	20.00 gpm	**4BA95**
5	10.00 gpm	**4BA92**	20.00 gpm	**4BA93**
25	10.00 gpm	**4PCD4**	20.00 gpm	**4PCD5**

PENTAIR

Metallic Bag Filter Housings

Feature a standard O-ring seal to help prevent bypass while removing dirt, pipe scale, and other contaminants from your process liquids. Bottom outlets and FNPT connections. Ideal for commercial and industrial applications, and includes a strainer basket and adjustable legs which can be bolted down.

BAND CLAMP CLOSURE STAINLESS STEEL

Suitable for high flow/high capacity use and feature a band clamp closure, EPDM seals, and a polished finish.

SWING BOLTS CLOSURE STAINLESS STEEL

Ideal for higher pressure use and feature a swing bolt closure, EPDM seals, and a polished finish.


No. 38FH45


No. 38FH41


No. 38FH50

Filter Bag Size	Flow Rate	Connection	Max. Pressure	Max. Water Temp.	H	Housing Dia.	Housing Material: 304 Stainless Steel Mfr. Model	304 Stainless Steel Item No.	316L Stainless Steel Mfr. Model	316L Stainless Steel Item No.
Band Clamp Closure										
1	90 gpm	2" NPT	125 psi	300°F	27¹⁹⁄₃₂"	8⅝"	ES12NA410-75	**38FH43**	—	—
2	200 gpm	2" NPT	125 psi	300°F	41¹⁹⁄₆₄"	8⅝"	ES22NA410-75	**38FH45**	ES22NA6L10-75	**38FH46**
3	25 gpm	1" NPT	125 psi	300°F	15¹¹⁄₁₆"	4½"	ES31NA410-75	**38FH47**	ES31NA6L10-75	**38FH48**
4	50 gpm	1" NPT	125 psi	300°F	21¹⁹⁄₆₄"	4½"	ES41NA410-75	**38FH49**	ES41NA6L10-75	**38FH50**
Swing Bolts Closure										
1	90 gpm	2" NPT	150 psi	300°F	28¹³⁄₃₂"	8⅝"	ES12NA415-75	**38FH40**	—	—
2	200 gpm	2" NPT	150 psi	300°F	42⅞₄"	8⅝"	ES22NA415-75	**38FH41**	—	—
2	200 gpm	3" NPT	150 psi	300°F	42⅞₄"	8⅝"	ES23NA415-75	**38FH42**	—	—


No. 4NVC8


No. 4NVC6

Parker Filtration

Bag Filter Housings and In-Line Filter

NOS. 4NVC8 AND 4NVC6

- Max. pressure: 175 psi
- Max. temp.: 250°F

Single O-ring closure for positive cover sealing. Cover stays attached when opened; swing bolts for easy operation. Closure bolts and adjustable legs resist corrosion. Integral basket support design provides a smooth interior. Include vent and clean/dirty drain connections. 2" NPT connection.

NOS. 2P695 AND 2P696

- Max. temp.: 250°F
- Filters down to 20 micronsw

Single-bolt design for quick filter changes. Includes drain and vents. Bottom seats provide a positive seal. Buna N gasket. Cartridge sold separately. Ideal for petrochemical, coolant, hydraulic oil, and solvents. Use stainless steel for water.

Cover Type	Filter Bag Size	Housing Material	Flow Rate	H	Housing Dia.	Mfr. Model	Item No.
Bag Filter Housing							
Swing Bolts Closure	1	304 Stainless Steel	80 gpm	25"	7⅔"	CBG1S2T	**4NVC8**
	1	Carbon Steel	80 gpm	25"	7⅔"	CBC1S2T	**4NVC6**

Filter Fuel Type	H	W	L	Inside Dia.	Outside Dia.	Item No.
Fuel Filter, For Cartridge Vessel (Cartridge Not Included)						
Diesel, Gas	12⅞"	4⅝₁₆"	Takes a 9¾" to 10" filter	3½"	3⅝"	**2P695**

For Use With	Filter Flow Rate	Micron Rating	Max. Pressure	H	Inside Dia.	Filter Diameter	Item No.
Filter Cartridge							
Mfr. No. B10-3/4SD Fuel Filter Housings	5.00 gpm	20	150 psi	10"	1"	9⅝"	**2P696**

Polypropylene Bag Filter Housings and Filter Bags

PENTAIR

- Initial pressure drop: less than 0.5 psi for max. rated flow at 68°F
- Max. temp.: 100°F

Lightweight housings include gauge, wrench, and ⅜" drain valve. FNPT connections. Use to filter water, acids, plating solutions, corrosive chemicals, food products, and more.

Note: Maximum flow rates for filter bags are guides only and are dependent on variables such as fluid viscosity, temperature, amount and type of contaminants, type and size of filter bag, and micron rating. The maximum rates (gpm water at 68°F) are normally only achieved under ideal conditions.

Filter Bag Size	Dia. (in.)	Height (in.)	Area (ft.²)
410	4	8.25	0.69
420	4	18	1.28

Filter Bag Size	Flow Rate	Max. Pressure	Connection	H	Housing Dia.	Mfr. Model	Item No.
Bag Filter Housings							
410	20 gpm	100 psi	1" (F)NPT	18⅜"	7½"	150360-75	**4BA80**
410	20 gpm	100 psi	1½" (F)NPT	18⅜"	7½"	150338-75	**4BA82**
420	40 gpm	90 psi	1" (F)NPT	28¾"	7½"	150367-75	**4BA81**
420	40 gpm	90 psi	1½" (F)NPT	28¾"	7½"	150337-75	**4BA83**

Microns	Filter Size 410 Item No.	410 Pkg. Qty.	420 Item No.	420 Pkg. Qty.
Filter Bags				
1	**4BA96**	20	**4BA97**	20
5	**4BA98**	20	**4BA99**	20
10	**4BB10**	20	**4BB11**	20
25	**4BB12**	20	**4BB13**	20
50	**4BB14**	20	**4BB15**	20
100	**4BB16**	20	**4BB17**	20
200	**4BB18**	20	**4BB19**	20



No. 4BA80



No. 4BA96

Heat-Welded Felt Fiber Bags with Quik-Seal™

Parker Filtration

- Max. temp.: 275°F
- Max. flow: 160 gpm
- Pkg. of 10

Polyester felt bags feature a top-sealing plastic ring that provides positive sealing in standard vessels. Glazed surface effectively keeps fibers from migrating into filtered product. 7" dia., 31½"L.

Filter Size	Microns	Item No.
2	1	**4NVE6**
2	5	**4NVE7**
2	50	**4NVF1**
2	200	**4NVF3**



No. 4NVE6

High-Flow Felt Filter Bags

PENTAIR

- Initial pressure drop: less than 0.5 psi for max. rated flow at 68°F
- Pkg. of 20

Single-layer bags are ideal for high flow rates. Handle and ring sewn in at top allow easy filter changes. Heat-welded seams. Glazed finish for low fiber migration, good depth filtration, and good solids-holding capacity. For use with alkalies, organic solvents, petroleum and vegetable oils, and organic and mineral acids.

Filter Size	Max. Flow	Microns 1 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	75 Item No.	100 Item No.	200 Item No.
Polyester Felt/Galvanized Carbon Steel Ring, Max. Temp.: 250°F									
1	55 gpm	**1YBC7**	**4BB64**	**4BB66**	**4BB68**	**4BB70**	**1YBC8**	**4BB72**	**1YBC9**
2	120 gpm	**1YBC4**	**4BE10**	**4BE12**	**4BE14**	**4BE16**	**1YBC5**	**4BE18**	**1YBC6**
3	15 gpm	**1YBD4**	**1YBD5**	**1YBD6**	**1YBD7**	**1YBD8**	**1YBD9**	**1YBE1**	**1YBE2**
4	30 gpm	**1YBD1**	**4BE57**	**4BE59**	**4BE61**	**4BE63**	**1YBD2**	**4BE65**	**1YBD3**
12	150 gpm	**1YBG6**	**1YBG7**	**1YBG8**	**1YBG9**	**1YBH1**	—	**1YBH3**	**1YBH4**
Polypropylene Felt/Galvanized Carbon Steel Ring, Max. Temp.: 200°F									
1	55 gpm	**1YBE6**	**4BB74**	**4BB76**	**4BB78**	**4BB80**	**1YBE7**	**4BB82**	**1YBE8**
2	120 gpm	**1YBE3**	**4BE20**	**4BE22**	**4BE24**	**4BE26**	**1YBE4**	**4BE28**	**1YBE5**
3	15 gpm	**1YBF3**	**1YBF4**	**1YBF5**	**1YBF6**	**1YBF7**	**1YBF8**	**1YBF9**	**1YBG1**
4	30 gpm	**1YBE9**	**4BE67**	**4BE68**	**4BE69**	**4BE70**	**1YBF1**	**4BE71**	**1YBF2**
12	150 gpm	**1YBH5**	**1YBH6**	**1YBH7**	**1YBH8**	**1YBH9**	**1YBJ1**	**1YBJ2**	**1YBJ3**



No. 1YBC7

High-Flow Nylon Monofilament and Polyester Filter Bags

PENTAIR

- Pkg. of 20

Single-layer bags have sewn seams.

Filter Size	Max. Flow	Microns 75 Item No.	100 Item No.	150 Item No.	200 Item No.	250 Item No.	300 Item No.	400 Item No.	600 Item No.	800 Item No.
Nylon Mesh/Galvanized Carbon Steel Ring, Max. Temp.: 250°F										
1	70 gpm	**1YBN5**	—	—	—	—	—	—	—	—
2	150 gpm	**1YBN6**	—	—	—	—	—	—	—	—
3	20 gpm	**1YBL4**	**1YBL5**	**1YBL6**	**1YBL7**	**1YBL8**	**1YBL9**	**1YBN1**	**1YBN2**	**1YBN3**
4	35 gpm	**1YBN4**	—	—	—	—	—	—	—	—
12	190 gpm	**1YBK3**	**1YBK4**	—	**1YBK5**	—	**1YBK6**	**1YBK7**	**1YBK9**	**1YBL1**
Nylon Monofilament Mesh/Galvanized Carbon Steel Ring, Max. Temp.: 250°F										
1	60 gpm	—	—	—	—	—	—	—	—	**4BB98**
1	70 gpm	—	**4BB84**	**4BB86**	**4BB88**	**4BB90**	**4BB92**	**4BB94**	**4BB96**	—
2	150 gpm	—	**4BE30**	**4BE32**	**4BE34**	**4BE36**	**4BE38**	**4BE40**	**4BE42**	**4BE44**
4	35 gpm	—	**4BE72**	**4BE73**	**4BE74**	**4BE75**	**4BE76**	**4BE77**	**4BE78**	**4BE79**
Polyester Mesh/Galvanized Carbon Steel Ring, Max. Temp.: 250°F										
12	190 gpm	—	**1YBJ4**	—	**1YBJ5**	—	**1YBJ6**	**1YBJ7**	**1YBJ9**	**1YBK1**



No. 1YBN5

High-Efficiency Filter Bags

PENTAIR

- Initial pressure drop: 0.8 psi or less for max. rated flow at 68°F

Multiple-layer bags have a composite construction of microfiber, felt, and spun-bonded materials to hold 3 to 4 times more dirt than standard bags. All-sewn construction. For use with oxidizing agents, organic solvents, petroleum and vegetable oils, and organic and mineral acids.

Filter Size	Max. Flow	Pkg. Qty.	Microns 1 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	75 Item No.	100 Item No.
Polyester Material/Stainless Steel Ring, Max. Temp.: 250°F									
1	40 gpm	10	**4BE88**	**4BE90**	—	**4BE92**	**4BE93**	**4BE94**	**4BU13**
2	80 gpm	5	**4BU14**	**4BU16**	**4BU17**	**4BU18**	**4BU19**	**4BU20**	**4BU21**
4	20 gpm	20	**4BU31**	—	—	—	—	—	—
4	25 gpm	20	—	**4BU33**	**4BU34**	**4BU35**	**4BU36**	**4BU37**	**4BU38**
Polypropylene Material/Stainless Steel Ring, Max. Temp.: 200°F									
1	40 gpm	10	**4BE80**	**4BE82**	**4BE83**	**4BE84**	**4BE85**	**4BE86**	**4BE87**
2	80 gpm	5	**4BE95**	**4BE97**	**4BE98**	**4BE99**	**4BU10**	**4BU11**	**4BU12**
4	20 gpm	20	**4BU23**	—	—	—	—	—	—
4	25 gpm	20	—	**4BU25**	**4BU26**	—	**4BU28**	**4BU29**	**4BU30**



No. 4BE95

Commercial Electric Water Heaters

- ¾" NPT water connection, except Heavy-Duty models are 1½"
- Include T&P valve
- 3-yr. limited manufacturer's warranty on tank and 1-yr. limited manufacturer's warranty on parts

Point-of-Use, 1-Phase—Provide hot water at the consumption point and help reduce costly temperature loss due to long piping runs.

Light-Duty—Use in applications requiring moderate quantities of hot water. Feature innovative upper and lower resistored elements. Max. temp. setting: 180°F.

Heavy-Duty—Models provide high hot water recovery in applications requiring large quantities of hot water. The System Sentinel feature provides a diagnostic panel with LEDs that correspond to the number, location, and status of each element. Multiple screw-in type stainless steel elements resist burn out and corrosion. Include a full port/full flow brass drain valve. All 3-phase models are field convertible to single-phase.



Point-Of-Use
No. 3CFF9



Light-Duty
No. 38UP11

Tank Capacity	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	120 Item No.	208 Item No.	240 Item No.	277 Item No.
Point-of-Use, 1-Phase, 1-Element								
6.0 gal.	15⅛"	15¾"	6 gph	1500	31CD83	—	—	—
			8 gph	2000	3CFF9	31CD84	—	31CD86
			12 gph	3000	6UT08	6UT09	—	6UT10
			24 gph	6000	—	31CD85	—	—
10.0 gal.	22⅞"		6 gph	1500	21XP24	—	—	—
			8 gph	2000	31CD87	31CD88	—	31CD91
			12 gph	3000	6UT01	3CFG1	31CD90	3CFG2
			18 gph	4500	—	31CD89	—	—
			24 gph	6000	—	6UT02	—	6UT04
15.0 gal.	24¼"	17¾"	6 gph	1500	21XP25	—	—	—
			8 gph	2000	31CD92	—	—	21XP26
			12 gph	3000	31CD93	31CD94	—	31CD97
			18 gph	4500	—	31CD95	—	—
			24 gph	6000	—	31CD96	—	—
19.9 gal.	25⅛"	19¾"	6 gph	1500	21XP27	—	—	—
			8 gph	2000	31CD98	31CD99	—	—
			12 gph	3000	3CFG3	3CFG4	—	3CFG5
			18 gph	4500	—	31CE01	—	31CE04
			24 gph	6000	—	6UT05	31CE03	6UT06
30.0 gal.	32"	22¼"	—	4500	—	38UN76	—	—
			—	6000	—	38UN77	—	—

Tank Capacity	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	240 Item No.	277 Item No.
Light-Duty, 1-Phase, 2-Element							
30.0 gal.	30"	22¼"	—	4500	38UN79	—	—
38.0 gal.	31½"	23"	—	4500	38UN85	—	—
			—	6000	38UN83	—	—
			—	8000	38UN84	—	—
40.0 gal.	48⅛"	20¼"	18 gph	4500	—	—	38UN99
			20 gph	5000	38UN93	—	—
			24 gph	6000	38UN90	—	—
			32 gph	8000	38UN91	—	—
50.0 gal.	58½"		18 gph	9000	—	38UP07	—
65.0 gal.	59⅜"	22¼"	20 gph	5000	38UP14	—	—
			41 gph	10,000	38UP11	—	—
			49 gph	12,000	38UP13	—	—
80.0 gal.	59½"	23¾"	18 gph	4500	38UP19	—	—
119.9 gal.	62⅞"	28¼"	41 gph	10,000	38UP23	—	—

Tank Capacity	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	240 Item No.	480 Item No.
Light-Duty, 3-Phase, 2-Element							
30.0 gal.	29½"	22¼"	—	6000	—	38UN78	—
	30"		—	12,000	38UN81	—	—
			—	4500	—	—	38UN82
			—	6000	38UN80	—	—
38.0 gal.	31½"	23"	—	12,000	38UN86	—	—
			—	6000	38UN87	—	—
40.0 gal.	48"	20¼"	18 gph	4500	38UN92	—	38UP01
			24 gph	6000	38UN98	—	—
			24 gph	6000	38UN94	38UN95	—
			36 gph	9000	38UN96	—	—
47.0 gal.	32"	26¼"	—	12,000	38UN88	—	38UN89
50.0 gal.	58½"	20¼"	18 gph	4500	38UP05	—	38UP08
			24 gph	6000	38UP02	38UP03	38UP04
			49 gph	12,000	38UP06	—	38UP10
65.0 gal.	59⅜"	22¼"	41 gph	10,000	—	—	38UP12
			49 gph	12,000	—	—	38UP15
80.0 gal.	59½"	23¾"	24 gph	6000	38UP16	38UP18	38UP17
			36 gph	9000	38UP22	—	—
			49 gph	12,000	38UP21	—	38UP20
119.9 gal.	62⅞"	28¼"	49 gph	12,000	—	—	38UP24

Tank Capacity	No. of Elements	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	240 Item No.	480 Item No.
Heavy-Duty, ⅓-Phase								
50.0 gal.	3	43⅝"	26¼"	25 gph	6000	3CFH1	—	—
	3		26¼"	74 gph	18,000	—	2VRE1	2VRE5
	6		26¼"	74 gph	18,000	3CFH2	—	—
85.0 gal.	3	57¹¹⁄₁₆"	28¼"	36 gph	9000	473N41	—	—
	3		28¼"	50 gph	12,000	—	—	21XP18
	3		28¼"	74 gph	18,000	—	2VRE2	2VRE6
	6		28¼"	74 gph	18,000	21XP38	—	—
	6		28¼"	112 gph	27,000	—	—	21XP19
	6		28¼"	149 gph	36,000	—	6E744	21XP20
119.9 gal.	3	67⅝"	30¼"	74 gph	18,000	—	6E745	21XP21
	6		30¼"	74 gph	18,000	3CFH3	—	—
	6		30¼"	99 gph	24,000	—	—	21XP22
	6		30¼"	112 gph	27,000	—	—	21XP23
	6		30¼"	149 gph	36,000	—	6E746	6E747
	9		30¼"	149 gph	36,000	3CFH4	—	—
	9		30¼"	223 gph	54,000	—	—	3CFH6
120.0 gal.	9		30¼"	223 gph	54,000	3CFH5	—	—
Heavy-Duty, 3-Phase								
85.0 gal.	3	57¹¹⁄₁₆"	28¼"	25 gph	6000	31CE37	—	—
	9		28¼"	149 gph	36,000	31CE38	—	—
	9		28¼"	223 gph	54,000	35Z886	—	—
119.9 gal.	3	67⅝"	30¼"	25 gph	6000	31CE39	—	—



Classic
Point-Of-Use
No. 38UN65



Classic Tall
No. 38UN47

Residential Electric Water Heaters

- ¾" NPT water connection
- Include T&P valve
- 1-phase
- Low-lead compliant

Include full flow brass drain valve, except for Classic Point-Of-Use models.

Classic Point-Of-Use—Can fit under cabinets, counters, or mop sinks. One resistored stainless steel element to help prolong anode and tank life. 6-yr. limited manufacturer's warranty on tank and parts.

Classic—The resistored copper upper element and resistored stainless steel lower element help prolong anode and tank life. Include an EverKleen self cleaning device. 6-yr. limited manufacturer's warranty on tank and parts.

Classic Plus—Resistored stainless steel upper and lower elements to help prolong anode and tank life. Have System Sentinel LED diagnostic system that helps verify heating element operation. Include EverKleen self-cleaning device. 8-yr. limited manufacturer's warranty on tank and parts.

Marathon—The seamless, blow-molded polybutene tank impervious to corrosion and rust. The durable, molded polyethylene outer shell resists dents, salt air, and scratches. Include a thermally-fused upper element, and titanium lower element. Models in a residential application have limited lifetime tank warranty, 6-yr. limited parts warranty when registered online within 90 days of installation. Commercial applications have 5-yr. limited tank warranty, 1-yr. limited parts warranty.

Table Top—Ideal for installation in kitchens or other work spaces. Model has an acid- and heat-resistant baked enamel top, 4" backsplash, and rear plumbing connections. 6-yr. limited manufacturer's warranty on tank and parts.

Tank Capacity	Total Watts	Recovery @ 90 F Rise	Uniform Energy Factor	Overall Height	Jacket Dia.	Mfr. Model	Item No.
Classic Point-Of-Use, 120V, Side Connection							
6.0 gal.	2000	9.0 gph	—	15¼"	15¾"	PROE6 1 RH POU	38UN65
10.0 gal.				23"	15¾"	PROE10 1 RH POU	38UN66
15.0 gal.				24¼"	17¾"	PROE15 1 RH POU	38UN67
19.9 gal.				25¼"	19¾"	PROE20 1 RH POU	38UN68
30.0 gal.			0.90	32"	22¾"	PROE30 1 RH95 POU	38UN41
Classic, 240V, Top Connection							
28.0 gal.	4500	21.0 gph	0.92	30"	23"	PROE28 S2 RH95	38UN42
30.0 gal.				47½"	19¼"	PROE30 T2 RH95	38UN45
36.0 gal.				31½"	24¼"	PROE36 S2 RH95	38UN43
40.0 gal.			0.93	48¼"	20¼"	PROE40 M2 RH95	38UN46
50.0 gal.				58⅝"	20⅜"	PROE50 T2 RH95	38UN47
Classic Plus, 240V, Top Connection							
40.0 gal.	4500	21.0 gph	0.93	60¾"	19¼"	PRO+E40 T2 RH95 EC1	38UN51
50.0 gal.				58⅝"	20⅜"	PRO+E50 T2 RH95 EC1	38UN52
Marathon, 240V, Top Connection							
40.0 gal.	4500	21.0 gph	0.92	61½"	21¾"	MR40245 C	38UN55
85.0 gal.			—	66¼"	28¼"	MHD85245	38UN56
Table Top, 240V, Top Connection							
40.0 gal.	4500	21.0 gph	0.81	36"	24"	88H-40D	38UN69



Electric Hot Water Auto Booster

Compact unit only operates when hot water is required and provides up to 45% more hot water capacity. Booster can be installed on an existing tank water heater or nearby wall, and features programmable Vacation and Eco modes. Model has an external temperature display, rugged stainless steel heat exchanger, and a field serviceable element. Accuracy: ±1°F. ETL Listed.

Water Connec.	Temp. Range	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Voltage	Watts	Mfr. Model	Item No.
¾" NPT	80° to 140°F	32°F	19.7°F	240	7200	HATB007240	52CE26



No. 2E768

GRAINGER APPROVED VANGUARD Rheem

Electric Water Heater Elements

All models include a gasket.

Watts	Style	Voltage*	Insert Length (in.)	Item No.
High-Watt Density				
GA, Copper Sheath				
1500	Bolt On	120	7⅝	**2E491**
1500	Screw In	120	7⅝	**2E457**
1500	Screw In	240	7⅝	**2E460**
2000	Screw In	240	7⅝	**2E756**
2500	Screw In	240	9⅜	**2E757**
3000	Screw In	240	10⅜16	**2E758**
3500	Screw In	240	12⅜16	**2E759**
4500	Screw In	240	13⅜16	**2E760**
Low-Watt Density				
GA, Copper Sheath				
750	Screw In	240	7¾	**2E458**
1000	Screw In	240	7¾	**2E459**
1500	Bolt On	120	7 11⁄16	**2E102**
1500	Screw In	120	7¾	**2E295**
1500	Screw In	240	7¾	**2E298**
1650	Screw In	120	9 15⁄16	**2E754**
2000	Screw In	240	10 11⁄16	**2E299**
2500	Screw In	240	7 1⁄16	**2E300**
3000	Screw In	240	9	**2E301**
3500	Screw In	240	9 15⁄16	**2E302**
4500	Screw In	240	11¾	**2E303**

Watts	Style	Voltage*	Insert Length (in.)	Item No.
Nickel-Based Alloy Sheath				
GA, Nickel Base Alloy Sheath				
2000	Screw In	240	9 3⁄32	**2E765**
3500	Screw In	240	13⅞	**2E766**
4500	Screw In	240	16⅜	**2E673**
5000	Screw In	240	19¼	**2E767**
6000	Screw In	240	22⅝	**2E768**
Threaded				
RHEEM, Copper Sheath				
2000	Straight	120	7 21⁄32	**15A528**
3000	Foldback	208	11 13⁄16	**15A576**
4500	Straight	240	13½	**15A529**
6000	Foldback	208	15⅛	**15A573**
6000	Foldback	240	15⅛	**15A571**
6000	Foldback	480	14⅞	**15A578**
Threaded, 1½"				
VANGUARD, Copper Sheath				
4500	Foldback	240	13⅜	**15A531**
RHEEM, Titanium Sheath				
4500	Foldback	240	16½	**15A533**

Item	Item No.
RHEEM Commercial	
Element, 6000W, 480V, 19.2"L	**2XE69**

**** 240V elements can be used to replace 208V elements, resulting in a 25% lower recovery rate.***

Eemax Hot Water Solutions Made Easy

BOSCH

Electric Mini-Tank Water Heaters



No. 14U450



No. 4JY90

- Factory-installed T&P valve

Simply plug into a standard wall outlet and set thermostat control, except Nos. 21EW70 and 5AE45 are hardwired. All have glass-lined tank with titanium inside, stainless steel heating element, and 30" grounded 16/3 cord. 120V. Eemax MiniTank™ models have a 5-yr. limited manufacturer's warranty. Bosch heaters have up to 98% thermal efficiency and a 6-yr. limited manufacturer's warranty. UL Listed and UPC Certified; except Eemax models are ETL Listed, CSA and UL Certified.

Tank Cap.	Water Connec.	Total Watts	Voltage	Amps AC	Temp. Range	Overall Height	Overall Width	Overall Length	Brand	Mfr. Model	Item No.
Mini-Tank Water Heaters											
1.5 gal.	½" NPT	1440	120	12	50° to 140°F	15 ¼"	9¾"	10"	Eemax	EMT1	**14U450**
2.5 gal.	½" NPT	1440	120	12	50° to 140°F	17"	11"	11 ¼"	Eemax	EMT2.5	**21EW68**
2.7 gal	½" NPT	1440	120	12	65° to 145°F	13¾"	13¾"	10¾"	Bosch	ES2.5	**4JY89**
4 gal.	½" NPT	1440	120	12	50° to 140°F	18¼"	12½"	13"	Eemax	EMT4	**21EW69**
4 gal.	½" NPT	1440	120	12	65° to 145°F	13¾"	13¾"	13½"	Bosch	ES4	**4JY90**
6 gal.	¾" NPT	1440	120	12	50° to 140°F	21"	14"	14¼"	Eemax	EMT6	**21EW70**
7 gal.	¾" NPT	1440	120	12	65° to 145°F	17½"	17½"	14½"	Bosch	ES8	**5AE45**

Chronomite® Electric Tankless Water Heaters

CHRONOMITE Laboratories, Inc.

Up to 99% efficient and provide unlimited hot water on demand. Feature vandal-resistant aluminum housing and include compression fittings and faucet controls. Nos. 54EL15 to 54EL18 have user adjustable temperature and water flow (0.35 to 5.0 gpm). Nos. 10G720, 6DXT1, and 6DXT2 are designed for low-flow, handwashing applications and are cold water feed only. All models are certified for use in potable water applications. ADA compliant; UL and IAPMO Listed; HUD.

Water Connec.	Watts	Voltage	Amps AC	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Mfr. Model	Item No.
⅜" Compression	1800	120VAC	15	0.35 gpm	80° to 120°F	6¼"	9⅝"	2¾"	25°F	—	SR-15L/120 HTR-I	**10G720**
	2400	120VAC	20	0.35 gpm	90° to 120°F	6¼"	9⅝"	2¾"	33°F	—	SR-20L/120 HTR-I	**6DXT1**
	3600	120VAC	30	0.35 gpm	90° to 120°F	6¼"	9⅝"	2¾"	49°F	—	SR-30L/120 HTR-I	**6DXT2**
	4150	277VAC	15	0.35 gpm	80° to 120°F	6¼"	9⅝"	2¾"	57°F	—	SR-15L/277 HTR-I	**19C803**
	4160	208VAC	20	0.35 gpm	80° to 120°F	6¼"	9⅝"	2¾"	57°F	—	SR-20L/208 HTR-I	**10G722**
	5540	277VAC	20	0.35 gpm	80° to 120°F	6¼"	9⅝"	2¾"	76°F	—	SR-20L/277 HTR-I	**10G723**
	6240	208VAC	30	0.65 gpm	80° to 120°F	6¼"	9⅝"	2¾"	—	28°F	SR-30/208 HTR-I	**10G725**
	8310	277VAC	30	0.65 gpm	80° to 120°F	6¼"	9⅝"	2¾"	—	38°F	SR-30/277 HTR-I	**10G724**
	8320	208VAC	40	0.65 gpm	80° to 120°F	6¼"	9⅝"	2¾"	—	38°F	SR-40/208 HTR-I	**19C804**
¾" MNPT	11,520	240VAC	48	0.35 gpm	Ambient Plus Temp Rise	9¾"	10½"	4¼"	—	52°F	R-48L/240	**54EL15**
	13,920	240VAC	58	0.35 gpm	Ambient Plus Temp Rise	9¾"	10½"	4¼"	—	63°F	R-58L/240	**54EL17**
	18,000	240VAC	75	0.35 gpm	Ambient Plus Temp Rise	9¾"	10½"	4¼"	—	82°F	R-75L/240	**54EL18**



No. 6DXT1

BOSCH

Bosch Electric Tankless Water Heaters

Mount under sinks in any direction. Meet National Appliance Energy Conservation Act. UL and C-UL Listed, are low lead, and certified for use in potable water applications.

Note: Pay careful attention to unit selection. Temperature and volume of water are dependent on the kilowatt rating of heater. The higher the kilowatt rating, the greater the volume of hot water. Max. outlet temp.: 135°F. These heaters are not designed to be used as boosters or preheaters. Install without a temperature/pressure relief valve (refer to local codes) close to the faucet or tap to eliminate long pipe runs. ½" NPT inlet and outlet.

Water Connec.	Watts	Voltage	Amps AC	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm*	Temp. Rise @ 1.5 gpm*	Temp. Rise @ 2.5 gpm*	Mfr. Model	Item No.	
½" NPT	3400	110/120VAC	29	0.50 gpm	135°F	6½"	12¾"	3"	46°F	14°F	9°F	US3	**4JY93**	†
	6000	277VAC	22	0.50 gpm	135°F	6½"	12¾"	3"	82°F	27°F	16°F	US6	**4JY92**	
	7200	220/240VAC	30	0.75 gpm	135°F	6½"	12¾"	3"	95°F	32°F	20°F	US7	**4JY94**	
	9500	208/240VAC	40	0.75 gpm	135°F	6½"	12¾"	3"	126°F	33°F	26°F	US9	**4JY91**	
	12,000	240VAC	50	0.60 gpm	135°F	6½"	12¾"	3"	159°F	55°F	33°F	US12	**2KJH5**	
¾" NPT	17,000	220VAC	60	0.60 gpm	100° to 140°F	12½"	15½"	4½"	140°F	75°F	45°F	WH17	**53XL95**	
	27,000	220VAC	120	0.80 gpm	100° to 140°F	12½"	15½"	4½"	140°F	119°F	71°F	WH27	**53XL96**	

**** °F at gpm. Gal. per min./minimum water pressure 15 psi/max. water pressure 150 psi. † Recommended where ground water temperatures exceed 60°F and flow rates are less than 1 gpm.***



No. 2KJH5



No. 53XL95

Sanitizing Commercial Water Heaters

Rheem RUUD

- ASME T&P valve included
- Max. temp: 190°F
- Water connections have 1¼" NPT dielectric nipples

These 240V, 3-phase electric units provide 180°F sanitizing rinse water to comply with NSF and all federal, state, county, and local department sanitation codes. Screw-in type heating elements. LED diagnostic panel signals any nonoperating element. Glass-lined storage tank. 6" stainless steel legs. 150 psi working pressure. Fused 120V control circuit. 3-yr. manufacturer's warranty on tank.



No. 6E769

Tank Cap.	Total Watts	Overall Height	Overall Width	Overall Length	Recovery @ 100°F Rise (gph)	Mfr. Model	Item No.
10 gal.	12,000	23"	21¾"	21½"	50	E10-12-G	**6E769**
10 gal.	18,000	23"	21¾"	21½"	74	E10-18-G	**6E770**



No. 481R30

Eemax™ Electric Tankless Water Heaters

Eemax

Compact, energy efficient, and instantly heat water as needed and can provide endless hot water. Easy to install and require no drain pans, T&P valves, or venting. Have field serviceable elements and are ideal for use in commercial, industrial, residential and safety applications. All models are low-lead NSF 372 compliant and UL Listed.

LavAdvantage™—Ideal for point-of-use handwashing and emergency eye wash fountain applications.

AccuMix II™—Meet UPC 407.3 requirement with integrated ASSE 1070 mixer set not to exceed 110°F.

FlowCo™—Ideal for point-of-use handwashing applications.

ProSeries™—Commercial-grade for applications requiring up to 8 gpm. Can accommodate point-of-use and multiple fixture use.

Series Two™—Thermostatic models suitable for commercial and residential applications up to 4 gpm.

Three Phase™—Commercial-grade for up to 5 gpm in 3-compartment sink and hot water process applications.

SafeAdvantage™—ANSI Z358.1-compliant, commercial-grade models for use emergency drench shower and eye/face wash applications.

SpecAdvantage™—Models are commercial-grade and designed for low, duty cycle applications where precise temperature control is needed.

Water Connec.	Watts	Voltage	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Mfr. Model	Item No.
LavAdvantage™, Thermostatic, For Use With Emergency Eyewash												
⅜" Comp.	10,000	277	0.20 gpm	70° to 90°F	9¾"	5¼"	3"	136°F	45°F	27°F	SPEX100T EE	**451G52**
	9500	240	0.20 gpm	70° to 90°F	9¾"	5¼"	3"	130°F	43°F	25°F	SPEX95T EE	**451G70**
AccuMix II™												
⅜" Comp.	3500	120	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	48°F	16°F	10°F	AM004120T	**481R29**
	4800	240	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	66°F	22°F	13°F	AM005240T	**481R30**
	6500	240	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	30°F	18°F	AM007240T	**481R31**
	9500	240	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	43°F	26°F	AM010240T	**481R32**
	11,500	240	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	52°F	31°F	AM012240T	**481R33**
	4100	277	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	19°F	11°F	AM004277T	**481R34**
	8000	277	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	36°F	22°F	AM008277T	**481R35**
	10,000	277	0.30 gpm	105° to 110°F	13¾"	5¼"	4"	52°F	46°F	27°F	AM010277T	**481R36**
FlowCo™												
⅜" Comp.	2400	120	0.25 gpm	82° to 130°F	9¾"	5¼"	3"	33°F	11°F	7°F	SPEX2412	**485A93**
	3000	120	0.25 gpm	82° to 130°F	9¾"	5¼"	3"	41°F	14°F	8°F	SPEX3012	**485A94**
	3000	208	0.25 gpm	82° to 130°F	9¾"	5¼"	3"	41°F	14°F	8°F	SPEX3208	**485C03**
	3500	120	0.30 gpm	82° to 130°F	9¾"	5¼"	3"	48°F	16°F	10°F	SPEX3512	**485A95**
	3500	240	0.30 gpm	82° to 130°F	9¾"	5¼"	3"	48°F	16°F	10°F	SPEX35	**485A96**
	4100	208	0.40 gpm	82° to 130°F	9¾"	5¼"	3"	56°F	19°F	11°F	SPEX4208	**485C04**
	4100	277	0.40 gpm	82° to 130°F	9¾"	5¼"	3"	55°F	18°F	11°F	SPEX4277	**485C07**
	4800	240	0.40 gpm	82° to 130°F	9¾"	5¼"	3"	66°F	22°F	13°F	SPEX48	**485A97**
	6500	240	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	89°F	30°F	18°F	SPEX65	**485A99**
	9000	277	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	123°F	41°F	25°F	SPEX90	**485C10**
	9500	240	0.80 gpm	82° to 130°F	9¾"	5¼"	3"	130°F	43°F	26°F	SPEX95	**485C02**
	5500	240	0.50 gpm	82° to 130°F	9¾"	5¼"	3"	75°F	25°F	15°F	SPEX55	**485A98**
	7500	240	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	102°F	34°F	20°F	SPEX75	**485C01**
	8300	208	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	113°F	38°F	23°F	SPEX8208	**485C05**
	3000	277	0.25 gpm	82° to 130°F	9¾"	5¼"	3"	41°F	14°F	8°F	SPEX3277	**485C06**
	6000	277	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	82°F	27°F	16°F	SPEX60	**485C08**
	8000	277	0.70 gpm	82° to 130°F	9¾"	5¼"	3"	109°F	36°F	22°F	SPEX80	**485C09**
	10,000	277	0.80 gpm	82° to 130°F	9¾"	5¼"	3"	137°F	46°F	27°F	SPEX100	**485C11**
ProSeries™												
½" Comp.	13,000	240	0.30 gpm	80° to 140°F	11¾"	8"	3¾"	178°F *	59°F	36°F	PR013240	**52CE29**
¾" NPT	18,000	240	0.30 gpm	80° to 140°F	17"	14"	3¾"	246°F *	82°F	49°F	PR018240	**52CE30**
Series Two™												
½" Comp.	20,000	277	0.70 gpm	100° to 140°F	10"	10½"	4½"	—	91°F	54°F	EX200TC	**6FCA0**
	20,000	277	0.70 gpm	180°F	10"	10½"	4½"	—	91°F	54°F	EX200TC S	**6FCA1**
	16,600	208	1.50 gpm	50° to 90°F	10"	10½"	4½"	—	75.6°F	43.7°F	EX160T2 EE	**21HT78**
¾" NPT	19,000	240	1.50 gpm	180°F	10"	10½"	4½"	—	86.5°F	52°F	EX190T2 S	**21HT81**
Three Phase™												
½" Comp.	24,000	208	0.70 gpm	100° to 140°F	12¼"	15¼"	4½"	—	108°F	66°F	EX240T2T	**6FCA2**
	32,000	480	0.70 gpm	100° to 140°F	12¼"	15¼"	4½"	—	146°F	87°F	ED032480T2T	**6FCA3**
	18,000	208	0.70 gpm	100° to 140°F	12¼"	15¼"	4½"	—	55°F	49.2°F	EX180T2T	**21HT79**
	20,000	480	0.75 gpm	100° to 140°F	12¼"	15¼"	4¼"	—	—	54°F	ED020480T2T	**29PH83**
	32,000	480	0.70 gpm	180°F	12¼"	15¼"	4½"	—	97°F	87.4°F	ED032480T2T S	**21HT75**
SafeAdvantage™												
1¼" NPT	72,000	480	2.50 gpm	60° to 90°F	24"	30"	14"	—	—	90°F	AP072480 EFD N4	**30UL23**
	64,000	208	2.50 gpm	60° to 90°F	24"	30"	14"	—	—	90°F	AP064208 EFD N4	**30UL14**
	126,000	208	2.50 gpm	60° to 90°F	24"	30"	14"	—	—	90°F	AP126480 EFD N4	**30UL50**
SpecAdvantage™												
1¼" NPT	48,000	480	1 gpm	100° to 140°F	17²⁷⁄₆₄"	17⅛"	10³⁄₃₂"	—	218°F	131°F	AP048480	**30UK90**
	64,000	208	2.50 gpm	100° to 140°F	17²⁷⁄₆₄"	26¹⁄₆₄"	10³⁄₃₂"	—	—	140°F	AP064208	**30UL12**
	108,000	480	2.50 gpm	100° to 140°F	17²⁷⁄₆₄"	26¹⁄₆₄"	10³⁄₃₂"	—	—	140°F	AP108480	**30UL36**
SpecAdvantage, Sanitation												
1¼" NPT	32,000	208	1 gpm	0° to 180°F	17²⁷⁄₆₄"	26¹⁄₆₄"	10³⁄₃₂"	—	145°F	87°F	AP032208 S	**30UK69**
	54,000	208	1.50 gpm	0° to 180°F	17²⁷⁄₆₄"	26¹⁄₆₄"	10³⁄₃₂"	—	245°F	147°F	AP054208 S	**30UL03**

Temperature rise at maximum output of unit.



No. 53UJ81



No. 53UJ87

Professional Classic Electric Tankless Water Heaters

Rheem

Energy-efficient water heaters only heat water when you need it. Compact models can save energy, water, and are ideal for delivering unlimited hot water in commercial and residential applications. Require no venting, T&P valves, or drain pans to help ease installation. Include durable brass or stainless steel heat exchanger and a field serviceable element. Nos. 53UJ81 and 53UJ82 feature an external temperature display and control, and self-modulating power technology. All models are UL Listed and CSA Certified.

Water Connec.	Watts	Voltage	Amps AC	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Mfr. Model	Item No.
½" NPT	3500	120VAC	29	0.30 gpm	59° to 140°F	5⅛"	10⅞"	2¾"	48°F	—	—	RTEX-04	**53UJ81**
	5500	208/240VAC	29	0.30 gpm	59° to 140°F	5⅛"	10⅞"	2¾"	75°F	—	—	RTEX-06	**53UJ82**
	8000	208/240VAC	33	0.30 gpm	59° to 140°F	12⅝"	8¼"	3⅝"	—	36°F	22°F	RTEX-08	**53UJ83**
	11,000	208/240VAC	46	0.30 gpm	59° to 140°F	12⅝"	8¼"	3⅝"	—	50°F	30°F	RTEX-11	**53UJ84**
	13,000	208/240VAC	54	0.30 gpm	59° to 140°F	12⅝"	8¼"	3⅝"	—	59°F	36°F	RTEX-13	**53UJ85**
¾" NPT	18,000	208/240VAC	75	0.30 gpm	59° to 140°F	18¼"	14½"	3½"	—	—	49°F	RTEX-18	**53UJ86**
	24,000	208/240VAC	100	0.30 gpm	59° to 140°F	18¼"	14½"	3½"	—	—	66°F	RTEX-24	**53UJ87**
	27,000	208/240VAC	112	0.30 gpm	59° to 140°F	18¼"	14½"	3½"	—	—	74°F	RTEX-27	**53UJ88**
	36,000	208/240VAC	150	0.30 gpm	59° to 140°F	18¼"	21⅜"	3½"	—	—	98°F	RTEX-36	**53UJ89**

Commercial Gas Water Heaters

Standard Hot Water Recovery—Multiflue tank has top, front, and rear inlet/outlet water connections. Multiple magnesium anode rods resist corrosion. Spark-to-pilot ignition system, fiberglass insulation, and the innovative System Sentinel™ diagnostic system with LEDs that verify heater status.

Tank Cap.	Vent Type	BtuH	Draft Hood Size	Recovery @ 100 F Rise	Height to Top of Vent Connection	Jacket Dia.	Mfr. Model	Item No.
Standard Hot Water Recovery, Natural Gas, Limited 3 yr. Tank and 1 yr. Parts Warranty, 80% Thermal Efficiency								
65 gal.	Standard	360,000	8"	349 gph	70 1/16"	26 1/4"	G65-360A	**6E738**
72 gal.	Standard	250,000	6"	242 gph	71 1/16"	26 1/4"	G72-250A	**2VRD6**
	Standard	300,000	8"	291 gph	71"	26 1/4"	G72-300A	**15A517**
75 gal.	Standard	125,000	5"	121 gph	65 1/2"	26 1/4"	G75-125	**5AU61**
76 gal.	Standard	180,000	6"	175 gph	68 13/16"	26 1/4"	G76-180	**3CFH8**
	Standard	199,900	6"	194 gph	68 13/16"	26 1/4"	G76-200	**2VRD7**
82 gal.	Standard	156,000	6"	151 gph	68 13/16"	26 1/4"	G82-156	**5AU62**
85 gal.	Standard	300,000	8"	291 gph	78 1/16"	26 1/4"	G85-300A	**2VRD8**
	Standard	399,900	10"	388 gph	78 13/16"	26 1/4"	G85-400A	**35Z883**
90 gal.	Standard	715,000	10"	693 gph	74 1/2"	30"	GX90-715A	**3CFJ3**
91 gal.	Standard	199,900	6"	194 gph	76 5/16"	26 1/4"	G91-200	**6E743**
100 gal.	Standard	80,000	4"	78 gph	69 5/8"	28 1/4"	G100-80	**15A518**
	Standard	199,900	6"	194 gph	73 1/16"	30 1/4"	G100-200	**5AU63**
	Standard	270,000	8"	262 gph	73 7/8"	30 1/4"	G100-270A	**6UT21**
LoNOx Natural Gas, 40ng/J, Limited 3 yr. Tank and 1 yr. Parts Warranty, 80% Thermal Effeciency								
72 gal.	Standard	250,000	6"	242 gph	71 1/16"	26 1/4"	GN72-250A	**35Z884**
75 gal.	Standard	75,100	4"	73 gph	64"	26 1/4"	G75-75N-3	**2VRE3**
	Standard	125,000	5"	121 gph	65 1/2"	26 1/4"	GN75-125	**3CFJ4**
90 gal.	Standard	550,000	10"	533 gph	74 1/2"	30"	GX90-550A	**3CFJ2**
91 gal.	Standard	199,900	6"	194 gph	76 5/16"	26 1/4"	GN91-200	**3RA88**
100 gal.	Standard	76,000	4"	74 gph	69 5/8"	28 1/4"	G100-80N	**2LAD2**
	Standard	199,900	6"	194 gph	73 1/16"	30 1/4"	GN100-200	**3CFJ5**
	Standard	270,000	6"	262 gph	73 7/8"	30 1/4"	GN100-270A	**15A519**
	Standard	399,900	8"	388 gph	76"	30 1/4"	GN100-400A	**3CFJ6**
Ultra LoNOx Natural Gas, 14ng/J, Limited 3 yr. Tank and 1 yr. Parts, Warranty, 80% Thermal Effeciency								
75 gal.	Standard	75,100	4"	73 gph	64 1/8"	26 1/4"	G75UN	**31CE46**
	Standard	125,000	5"	121 gph	65 1/2"	26 1/4"	GNU75-125	**35Z887**
76 gal.	Standard	199,900	6"	194 gph	68 13/16"	26 1/4"	GNU76-200	**35Z888**
98 gal.	Standard	75,100	4"	73 gph	67 7/8"	27 1/8"	G100UN	**31CE45**
100 gal.	Standard	199,900	6"	194 gph	73 1/16"	30 1/4"	GNU100-200	**35Z889**
	Standard	250,000	6"	242 gph	73 1/4"	30 1/4"	GNU100-250A	**21XP16**
	Standard	399,900	8"	388 gph	76"	30 1/4"	GNU100-400A	**35Z885**
High Efficiency, Ultra LoNOx Natural Gas, 14ng/J, Limited 3 yr. Tank and 1 yr. Parts Warranty								
119 gal.	Power Direct Vent	199,000	3"	229 gph	Intake 22" Exhaust 9 1/2"	27"	HE119-199	**5AU66**
High Recovery, LP, Limited 3 yr. Tank and 1 yr. Parts Warranty, 80% Thermal Efficiency								
75 gal.	Standard	75,100	4"	73 gph	64"	26 1/4"	G75-76LP	**38UP25**
76 gal.	Standard	199,900	6"	194 gph	68 13/16"	26 1/4"	G76-200LP	**3CFJ7**
91 gal.	Standard	199,900	6"	194 gph	76 5/16"	26 1/4"	G91-200LP	**6E740**
100 gal.	Standard	199,900	6"	194 gph	73 1/16"	30 1/4"	G100-200LP	**3CFJ8**

Motor Amps	Voltage	Mfr. Model	Item No.
Power Venter Kits			
1.26	115	AP11646	**5AU67**
1.51	115	AP11645	**5AU68**

Tank (gal.)	Height to top of Tank (in.)	Tank Dia. (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Storage Tanks, 5-yr. Tank Warranty					
80	58 5/16	24 1/16	150	ST80	**15A520**
115	59 1/4	28 1/4	150	ST120	**6UT22**
175	67 1/4	32 1/4	150	ST175A	**31CE48**

Altitude certifications vary according to model and gas type. 80% thermal efficiency on 98,000 to 399,900 Btu models with 180°F max. temp.

Low NOx—Power assist enclosed burner design with stainless steel multiport burner tubes. Universal multiflue tank design with high limit temperature cutout.

Ultra Low NOx—Power assist burner design has stainless steel multiport burner tubes for longer Ultra Low NOx performance, <14ng/J.

High Efficiency Ultra LoNox—Up to 95% efficiency direct-vented heater has self-diagnostic electronic control with digital water temperature readout. Unit draws combustion air from outside the building, eliminating negative air pressure issues.

High Recovery—No. 38UP25 has an innovative, high-temperature, porcelain/enamel coating for corrosion resistance. Automatic control system shuts off gas supply if pilot is extinguished. Anode rods are magnesium construction for long tank life. Nos. 3CFJ7, 6E740, and 3CFJ8 have innovative System Sentinel™ diagnostic system with LEDs that verify heater status.



No. 5AU66

Power Venter Kits—Allow venting up to 50 ft. away from a side wall where no chimney exists. Aluminum vent terminal with heat shield allows installation through combustible or noncombustible surfaces. Kit includes vibration isolators.

Note: Compatible with Rheem-Ruud commercial gas heaters from 98,000 Btu to 400,000 Btu. Not for use on Low Emission water heaters.

Storage Tanks—Have 2 heavy-duty magnesium anode rods, 1" FNPT relief valve opening, and ¾" NPT thermometer and aquastat openings.

Note: Not ASME compliant.

Residential Gas Water Heaters

- Max. pressure: 150 psi
- Factory-installed T&P valve
- ¾" FNPT water connections

Heaters feature the innovative Everkleen™ system that helps reduce sediment build up. Models have a piezo igniter, glass-lined tank, enhanced flow brass drain valve, and anode rod. Suitable for natural gas, except Nos. 38UN64 and 38UN63 are LP gas compatible. All have an Eco-friendly burner and Low NOx design that meets 40ng/J limit. All water heaters are built and shipped for standard-altitude areas, but will perform at a derated value in higher altitudes. All heaters are AHRI and CSA Certified.

Note: Not for use in mobile homes. Conversion kits are not available. For SCAQMD-compliant heaters for California, call 1-800-GRAINGER (472-4643).



No. 38UN58

Vent Type	Tank Cap.	BtuH	Draft Hood Size	Height to Top of Vent Connection	Jacket Dia.	Mfr. Model	Item No.
Limited 6 yr. Tank and Parts Manufacturer Warranty							
Power	40 gal.	40,000	2" or 3"	67 3/8"	19 3/4"	PROG40-40N RH67 PV	**38UN72**
	50 gal.	42,000	2" or 3"	66 3/8"	21 3/4"	PROG50-42N RH67 PV	**38UN73**
Standard	29 gal.	32,000	3" or 4"	59 3/4"	16 1/2"	PROG29-32N RH63	**38UN58**
	40 gal.	36,000	3" or 4"	63 1/4"	19 1/2"	PROG40-36P RH62	**38UN64**
	40 gal.	38,000	3" or 4"	61 1/2"	19"	PROG40-38N RH62	**38UN59**
	40 gal.	40,000	2" or 3"	68 1/2"	19 3/4"	PROG40-40N RH67 PDV	**38UN70**
	50 gal.	36,000	3" or 4"	61 1/4"	20 1/2"	PROG50-36P RH60	**38UN63**
	50 gal.	38,000	3" or 4"	61 1/4"	20 1/2"	PROG50-38N RH60	**38UN60**
	50 gal.	40,000	2" or 3"	67 5/8"	21 3/4"	PROG50-40N RH67 PDV	**38UN71**
Limited 8 yr. Tank and Parts Manufacturer Warranty							
Power Vent	75 gal.	75,100	3" or 4"	72"	26 1/4"	PRO+G75-76N RH PV	**38UN62**
Standard	75 gal.	75,100	4"	64"	26 1/4"	PRO+G75-76N RH	**38UN61**

Triton™ Ultra High Efficiency Commercial Gas Water Heater

- Max. temp.: 185°F
- Water connections: 1½" (top), 2" (side)

Feature up to 98% thermal efficiency and the LeakSense™ integrated leak detection system that can catch leaks as small as a grain of sand. EcoNet® technology can provide performance updates and alerts via mobile devices and a full-color LCD display. Nos. 455C80 to 455C83 add the LeakGuard™ system with an innovative auto shut-off valve that allows no more than 24 oz. of water to escape the tank in a vacuum lock. All models provide ongoing monitoring of vital components to help detect and alert of potential issues, plus the innovative built-in condensate neutralizer helps reduce water acidity for safe drainage. Power vent or power direct vent. CSA Certified and ASHRAE compliant.



No. 455C72

Tank Capacity	BtuH	Draft Hood Size	Recovery @ 100 F Rise	Height to Top of Heater	Jacket Dia.	Mfr. Model	Item No.
Triton™, Limited 3 yr. Tank and 1 yr. Parts Manufacturer Warranty							
100.0 gal.	199,900	3"	229 gph	77"	26 1/4"	GHE100SU-200	**455C72**
	300,000	3"	338 gph	77"	26 1/4"	GHE100SU-300A	**455C74**
Triton SS™, Limited 5 yr. Tank and 1 yr. Parts Manufacturer Warranty							
100.0 gal.	199,900	3"	229 gph	77"	26 1/4"	GHE100SS-200	**455C80**
	250,000	3"	291 gph	77"	26 1/4"	GHE100SS-250A	**455C82**
	300,000	3"	338 gph	77"	26 1/4"	GHE100SS-300A	**455C83**



No. 2XE62



No. 2XE63



No. 2XE65

Rheem RUUD ★GA GRAINGER APPROVED

Replacement Parts and Accessories

Description	Brand	Mfr. Model	Item No.
Blower Assembly	Rheem	AM39729	**15A595**
Blower Assembly, High Performance	Rheem	SP13416	**15A541**
Blower Assy/Pressure Switch Upgrade Kit	Rheem	SP20165C	**15A601**
Blower Assy/Pressure Switch Upgrade Kit	Rheem	SP20165E	**15A599**
Burner Assembly	Rheem	AM39189	**15A590**
Burner Assembly	Rheem	AM39732	**15A591**
Gas Control Thermostat, LP	Rheem	SP14269A	**15A549**
Gas Control Thermostat, Natural Gas	Rheem	AP14732A	**15A585**
Gas Control Thermostat, Natural Gas	Rheem	SP13845A	**15A550**
Gas Control Thermostat, Natural Gas	Rheem	SP14270F	**15A546**
Gas Control Thermostat, Natural Gas	Rheem	SP14270G	**15A547**
Gas Control Thermostat, Natural Gas	Rheem	SP14339B	**15A548**
Gas Control Thermostat, Natural Gas	Rheem	SP14904A	**15A551**
Gas Control Thermostat Kit, Natural Gas	Rheem	SP20161A	**15A540**
Gas Valve	Rheem-Ruud	SP10963D	**2XE62**
Gas Valve, LP	Rheem	SP10963E	**15A588**
Gas Valve, Natural	Rheem	SP12541B	**15A582**
Gas Valve, Snap Open, Natural Gas	Rheem	SP12543	**15A583**
Gas Valve, Snap Open, Natural Gas	Rheem	SP12866N	**15A584**
Igniter, Hot Surface Ignition (HSI), Natural Gas	Rheem	SP14218A	**15A557**
Igniter, Hot Surface Ignition (HSI), Natural Gas	Rheem	SP14218B	**15A556**
Igniter Pilot Burner	Rheem	SP12237	**15A606**
Ignition Control	Rheem-Ruud	SP10763C	**2XE63**
LWD Element	Rheem	SP13409BM	**15A579**
Piezo Igniter and Bracket	Rheem	SP14410	**15A555**
Pilot Assembly, LP	Rheem	SP10764C	**15A605**
Pilot Assembly, Natural Gas	Rheem	SP12560B	**15A545**
Pilot Assembly Replacement Kit, Natural Gas	Rheem	SP13418	**15A543**
Pilot Assembly Replacement Kit, Natural Gas	Rheem	SP13422	**15A544**
Pilot Sensor	Rheem-Ruud	SP10764B	**2XE64**
Pressure Switch	Rheem	SP14197B	**15A603**
Pressure Switch	Rheem	SP14197C	**15A604**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20164	**15A536**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20166A	**15A534**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20166B	**15A535**
Replacement Lower Thermostat, Electric	Rheem	SP11695	**15A527**
Replacement Thermocouple	Rheem	SP6379R	**15A580**
Replacement Thermostat, Electric	Rheem	SP11234	**15A565**
Replacement Thermostat, Electric	Rheem	SP11699	**15A563**
Replacement Thermostat, Electric	Rheem	SP13410	**15A566**
Replacement Thermostat, Electric	Rheem	SP213600	**15A525**
Replacement Thermostat, Electric	Rheem	SP8260	**15A564**
Replacement Thermostat, Electric	Rheem	SP8295	**15A567**
Replacement Upper Thermostat, Electric, Two Element Non-Simultaneous	Rheem	SP11698	**15A524**
Suspended Water Heater Platform, Steel, 2.5"H, for Weights up to 375 lb.	GA	40-SWHP	**13G662**
Suspended Water Heater Platform, Steel, 2.5"H, for Weights up to 600 lb.	GA	50-SWHP	**13G664**
Thermostat, Electric	Rheem-Ruud	SP11231	**2XE67**
Thermostat, Electric	Rheem-Ruud	SP8293	**2XE75**
Thermostat, Gas, Commercial, High Limit	Rheem-Ruud	SP11798B	**2XE65**
Thermostat/Burner Assembly Retrofit Kit, Natural Gas	Rheem	SP20170A	**15A538**
Thermostat/Burner Assembly Retrofit Kit, Natural Gas	Rheem	SP20170B	**15A539**
Wall Mounted Water Heater Platform, Steel, 2.5"H, for Weights up to 375 lb.	GA	40-SWHP-W	**13G663**
Wall Mounted Water Heater Platform, Steel, 2.5"H, for Weights up to 600 lb.	GA	50-SWHP-W	**13G665**
Water Heater Pan, Aluminum, 20" dia.	GA	QP-20	**13G666**
Water Heater Pan, Aluminum, 22" dia.	GA	QP-22	**13G667**
Water Heater Pan, Aluminum, 24" dia.	GA	QP-24	**13G668**
Water Heater Pan, Aluminum, 26" dia.	GA	QP-26	**13G669**
Water Heater Pan, Aluminum, 28" dia.	GA	QP-28	**13G670**
Water Heater Pan, Aluminum, 30" dia.	GA	QP-30	**13G671**
Water Heater Pan, Plastic, 22" dia.	GA	—	**3VU59**
Water Heater Pan, Plastic, 30" dia.	GA	—	**3VU61**
Water Heater Stand, for Tanks Up to 50 gal.	GA	—	**3VU62** *
Water Heater Stand, Steel, 16"H, for Weights up to 1200 lb.	GA	40-S-24-U	**13G659**
Water Heater Stand, Steel, 16"H, for Weights up to 1200 lb.	GA	40-S-30-U	**13G660**
Water Heater Stand, Steel, 16"H, for Weights up to 600 lb.	GA	40-S-22-U	**13G658**
Water Heater Straps, for Tanks Up to 120 gal.	GA	QS-120	**13G672**
Water Heater Straps, for Tanks Up to 80 gal.	GA	QS-50	**13G673**
Water Heater Straps, for Tanks Up to 80 gal.	GA	QS-50-P	**13G675**

**** Meets National Fuel Gas and City of Los Angeles Codes regarding water heater installation.***



No. 2KJG9

Bosch® Gas Tankless Water Heaters

BOSCH

- ¾" gas and water connections
- Electronic ignition

All heaters are CSA Certified. Nos. 2KJG9 and 2KJH1 are Energy Star® Certified. Nos. 2KJG9, 2KJH1, and 2VRE8 meet ANSI Z21.10.4.

Find list of included hardware with each heater at Grainger.com®.

Input (Btu)	Energy Factor	H (in.)	W (in.)	D (in.)	GPM @ 45F Rise	GPM @ 90°F Rise	Natural Gas Mfr. Model	Natural Gas Item No.	Liquid Propane (LP) Mfr. Model	Liquid Propane (LP) Item No.
199,000	0.80	30½	17⅞	11¼	7.3	3.7	—	—	940 ES LP	**2KJH1** †
	0.83	30½	17⅞	11¼	7.3	3.7	940 ES NG	**2KJG9** †	—	—
	0.95	30½	17⅞	11¼	8.3	4.2	—	—	C1050ES LP	**2VRE8**
225,000	—	30½	17⅞	11¼	9.4	4.7	C 1210 ES NG	**6FZP2** †	—	—
	—	30½	17⅞	11¼	9.4	4.7	C 1210 ESC NG	**6FZP4**	—	—
	0.94	30½	17⅞	11¼	9.4	4.7	—	—	C 1210 ESC LP	**6FZW5**
	0.94	30½	17⅞	11¼	9.4	4.7	—	—	C 1210 ES LP	**6FZP3** †

† 15-yr. limited manufacturer's warranty on heat exchanger; 5-yr. limited manufacturer's warranty on parts and 1-yr. manufacturer's warranty on labor.



No. 459W37

Rheem® Commerical Gas Tankless Water Heaters

- ¾" gas and water connections
- Electronic ignition

Featuring up to 97% thermal efficiency these tankless water heaters have 185°F built-in maximum temperature and common venting for up to 10 units with Rheem® polypropylene header kit. Design allows a variety of room air intake configurations. Nos. 459W41 to 459W44 have a manifold featuring a factory-installed translator that can connect up to 20 units in a daisy chain via included cable. All models have 5-yr. limited manufacturer's warranty on heat exchanger and parts, 1-yr. limited manufacturer's warranty on labor. AHRI, CSA, and Energy Star® Certified.

BtuH	Energy Factor	H (in.)	W (in.)	D (in.)	GPM @ 45F Rise	GPM @ 90°F Rise	Natural Gas Item No.	Liquid Propane Item No.
Indoor								
199,900	0.96	27½	18½	9¼	8.4	4.2	**459W37**	**459W39**
199,900	0.96	27½	18½	9¼	8.4	4.2	**459W41**	**459W43**
Outdoor								
199,900	0.96	27½	18½	9¼	8.4	4.2	**459W38**	**459W40**
199,900	0.96	27½	18½	9¼	8.4	4.2	**459W42**	**459W44**

Description	For Use With	Mfr. Model	Item No.
Accessories			
EZ Link Cable Connector (Connects 2 Units)	Rheem Tankless Water Heaters	RTG20040	**6FZN4**
Venting for Rheem Tankless Heaters*			
Horizontal Vent Termination Kit 3"	Rheem Tankless Heaters	SP20286	**21HD68**

**** For additional venting options, call 1-800-GRAINGER (472-4643).***

Stainless Steel Gas Appliance Connectors

Dormont A WATTS Brand

Use with natural gas, LP gas-air mixtures, or LP gas systems. Additional lengths are available; call 1-800-GRAINGER (472-4643). Certified for indoor and outdoor use.

Connectors comply with ANSI Z21.24 CSA 6.10, ANSI Z21.75/CSA 6.27, and NY MEA #376-92M.

Note: Code requires that a manual shutoff valve be installed on the gas line ahead of the connector. A new connector must be used on all new or moved appliances (ANSI Z21.24).

For Use With	Connection	Outside Dia. (in.)	24" Length Connector Flow (Btu)	24" Length Item No.	36" Length Connector Flow (Btu)	36" Length Item No.	48" Length Connector Flow (Btu)	48" Length Item No.	60" Length Connector Flow (Btu)	60" Length Item No.
10 Series										
Gas Log Sets and Space Heaters	⅜" MIP x ⅜" FIP*	⅜	—	—	33,400	**18D821**	—	—	—	—
Natural, Manufactured, LP Gas Air Mixtures or LP Gas Systems	½" MIP x ½" MIP	⅝	—	—	—	—	106,000	**3VU97**	93,200	**3VU98**
20 Series										
Gas Dryers and Gas Water Heaters	½" MIP x ½" FIP	½	85,000	**1PX46**	71,100	**1PX47**	60,500	**1PX48**	—	—
	½" MIP x ½" FIP*	½	—	—	—	—	60,500	**18D826**	53,200	**18D828**
	½" MIP x ⅜" FIP*	½	—	—	—	—	—	—	53,200	**18D829**
Natural, Manufactured, LP Gas Air Mixtures or LP Gas Systems	½" MIP x ⅜" FIP	½	—	—	—	—	60,500	**3VU94**	53,200	**3VU95**
	½" MIP x ½" FIP	½	—	—	—	—	—	—	53,200	**3VU93**
30 Series										
Gas Ranges and Gas Furnaces	½" FIP x ½" FIP*	⅝	150,000	**18D830**	—	—	—	—	—	—
	½" FIP x ½" FIP	⅝	150,000	**1PX50**	125,000	**1PX51**	—	—	—	—
	½" MIP x ½" MIP*	⅝	—	—	125,000	**18D831**	—	—	93,200	**18D836**
	½" MIP x ½" MIP	⅝	—	—	125,000	**1PX49**	—	—	—	—
	½" MIP x ¾" FIP*	⅝	—	—	—	—	—	—	93,200	**18D837**
	¾" FIP x ¾" FIP*	⅝	—	—	—	—	106,000	**1PX53**	—	—
	¾" FIP x ¾" FIP*	⅝	—	—	—	—	106,000	**18D835**	—	—
Range, Furnace	½" MIP x ½" FIP	⅝	150,000	**6CNC7**	125,000	**6CNC8**	—	—	—	—
	½" MIP x ½" MIP	⅝	150,000	**6CNC2**	—	—	—	—	—	—
	¾" MIP x ¾" MIP	⅝	150,000	**6CNA6**	—	—	—	—	—	—
40 Series										
Tankless Water Heaters and Boilers	¾" MIP x ¾" FIP	1	290,900	**2GMF2**	—	—	—	—	—	—
41 Series, PVC Coated										
Tankless Water Heaters and Boilers	¾" MIP x ¾" FIP	1	290,900	**2GMF3**	255,900	**2GMF4**	—	—	—	—

**** Yellow safety shield coating.***



No. 18D830



No. 1PX50



No. 2GMF3

Food Service Gas Connectors and Kits, Quick Disconnects, and Fittings

Dormont A WATTS Brand

ANSI and CSA Certified.

Gas Connector Kits, Nos. 4XR86 and 4XR87—Include 48" hose with antimicrobial PVC coating, SnapFast® quick disconnect, restraining cable, and mounting hardware. Comply with ANSI Z21.69/CSA-6.16, ANSI Z21.41/CSA 6.9, and ANSI Z22.1NFPA 54.

SafetyQuik® Quick Disconnect Shut Off Valves—Gas connector cannot be disconnected until the gas flow is shut off or opened until the gas connector is reattached. Safety thermal shutoff stops the flow of gas when the internal temperature exceeds 350°F.

SnapFast® Quick Disconnect Couplings—Safety thermal shutoff stops flow of gas when internal temperature exceeds 350°F.

SwivelMax® Swivel Fittings—Allow complete 360° multiplane movement.

Size	L (in.)	Btu Cap.	Mfr. Model	Item No.
Blue Hose Gas Connector Kits				
½"	48	68,000	1650BPQR48	**4XR86**
¾"	48	180,000	1675BPQR48	**4XR87**
Blue Hose Gas Connectors				
½"	48	106,000	1650BP48	**2GMF5**
¾"	48	225,000	1675BP48	**2GMF6**
1"	48	451,000	16100BP48	**18D838**
Blue Hose Gas Safety Kits				
½"	36	77,000	1650BPQR36	**18D839**
¾"	36	218000	1675BPQR36	**18D840**
1"	36	379,000	16100BPQR36	**18D841**
1"	48	334,000	16100BPQR48	**18D842**
SafetyQuik® Quick Disconnect Shut Off Valves				
½"	—	11,000	CF-50	**4XR90**
¾"	—	237,000	CF-75	**4XR91**
1"	—	360,000	CF-100	**18D844**
SnapFast® Quick Disconnect Coupling				
½"	—	—	A50	**4XR88**
¾"	—	—	A75	**4XR89**
1"	—	—	A100	**18D843**
SwivelMax® Swivel Fittings				
½"	—	190,000	SM50	**4XR96**
¾"	—	229,000	SM75	**4XR97**
1"	—	457,000	SM100	**18D845**



No. 4XR87



No. 4XR90



No. 4XR96

FLEXCON INDUSTRIES The Reliable Source

Pressurized Expansion Tanks

- Max. pressure: 150 psi
- Max. temp.: 200°F
- Precharged to 40 psi; field adjustable

Diaphragm-style tanks are designed to control pressure buildup in open water systems. Steel tank construction with flexible double butyl diaphragm. NSF/IAPMO compliant.

Tank (gal.)	H (in.)	Dia. (in.)	Inlet/ Outlet NPT (in.)	Item No.
2.1	11 39/64	8	¾ M	**3GVU8**
4.8	14½	11	¾ M	**3GVU9**
9	18 29/32	12½	¾ M	**3GVX1**

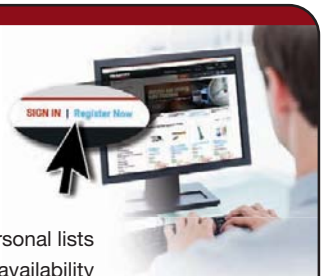


REGISTER NOW!

Enjoy These Features & More!

- **Access** your pricing
- **View** order history
- **Save favorites** to your personal lists
- **Check real-time** product availability

> Sign in or register on **Grainger.com®** today!




No. 4EEU5


No. 4EET4


No. 4EET9


No. 30PT08

Kissler ZURN
GA GRAINGER APPROVED

Water Supply Stop Valves

- Max. pressure: 125 psi
- Temp. range: 40° to 180°F

All models are IAPMO, UPC, and SA Listed; except Nos. 30PT08 to 30PT18 meet CSA B125.1, B125.2.


No. 39AP74

Inlet Size	Inlet Type	Outlet Size	Outlet Type†	Finish	Brand	Angle Supply Stop Item No.	Quarter-Turn Supply Stop Item No.
3-Way							
½"	FNPT	⅜"	Comp.	Chrome Plated	Kissler	—	4EEU5
⅝"	Comp.	⅜"	Comp.	Chrome Plated	Kissler	—	4EEU6
Angle							
¼"	Comp.	⅝"	Comp.	Chrome	Kissler	39AP74	—
⅜"	FNPT	⅜"	Comp.	Chrome Plated	Kissler	—	4EET4
	IPS	⅜"	IPS	Chrome	Zurn	30PT08	—
	IPS	⅜"	IPS	Chrome	Zurn	30PT13	—
	IPS	⅜"	IPS	Chrome	Zurn	30PT14	—
½"	CPVC	¼"	Comp.	Chrome	Kissler	39AP78	—
	CPVC	⅜"	Comp.	Chrome Plated	Kissler	—	4EET8
	CTS	⅜"	CTS	Chrome	Zurn	30PT10	—
	CTS	⅜"	CTS	Chrome	Zurn	30PT15	—
	CTS	⅜"	CTS	Chrome	Zurn	30PT16	—
	FIP	¼"	Comp.	Chrome	Kissler	39AP76	—
	FNPT	½"	Slip	Chrome Plated	Kissler	—	4EET5
	PEX	⅜"	Comp.	Chrome Plated	Kissler	—	4EET7
	Sweat	⅜"	Sweat	Chrome	Zurn	30PT17	—
	Sweat	⅜"	Sweat	Chrome	Zurn	30PT18	—
⅝"	Comp.	⅜"	Comp.	Chrome	Kissler	39AP79	—
	Comp.	⅜"	Comp.	Chrome Plated	GA	—	5LYF3
	Comp.	½"	Slip	Chrome Plated	Kissler	—	4EET6
Straight							
⅜"	FNPT	⅜"	Comp.	Chrome Plated	Kissler	—	4EET9
½"	CPVC	⅜"	Comp.	Chrome Plated	Kissler	—	4EEU4
	FNPT	½"	Slip	Chrome Plated	Kissler	—	4EEU1
	NPT	⅜"	Comp.	Chrome Plated	GA	—	401K23
	PEX	⅜"	Comp.	Chrome Plated	Kissler	—	4EEU3
	Sweat	⅜"	Comp.	Chrome Plated	Kissler	—	4EEU2

† Comp. = compression fitting.

KeepStock Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**

Kissler

Braided Connectors

- Max. working pressure @ 70°F: 250 psi
- Temp. range: 40° to 180°F

Flexible, corrosion-resistant connectors install without tools, washers, rings, inserts, or sleeves; no cutting required. Stainless steel hose cover, PVC hose tube. Nuts and barb made from high-quality brass. Can be used for hot and cold potable water. All models are IAPMO Listed and NSF Certified.


No. 45RC26


No. 45RC42

Hose I.D.	Inlet Size (in.)	Inlet Type	Outlet (in.)	Outlet Type	Hose Length	Item No.
Faucet						
5⁄16"	⅜	Compression	⅜	Compression	20"	45RC29
5⁄16"	½	FIP	½	FIP	20"	45RC26
Ice Machine						
5⁄16"	¼	Compression	¼	Compression	10 ft.	45RC22
Toilet Supply Line						
5⁄16"	⅜	Compression	⅞	FIP	9"	45RC24
Washing Machine						
5⁄16"	¾	FIP	¾	FIP	48"	45RC25
Water Heater						
5⁄16"	¾	FIP	¾	FIP	12"	45RC42
5⁄16"	¾	FIP	¾	FIP	15"	45RC43


No. 4XR84


No. 2KLE4

Drinking Fountains

Halsey Taylor

- Non-refrigerated

WALL-MOUNT

Durable, sturdy, virtually maintenance-free and feature a self-closing stop and an Exclusive Double Bubbler™ projector with antisquirt groove. Can be installed with remote chillers, sold separately. Go to Grainger.com® and search for water chillers.

PEDESTAL-MOUNT

Rugged fountains are constructed of cold-rolled steel with weather-resistant, forest green Endura finish. Feature a vandal-resistant, 2-stream bubbler and an access panel secured with vandal-resistant screws. Ideal for indoor and outdoor applications where strength is needed.


No. 4XR75


No. 4XR76

Indoor / Outdoor	No. of Levels	Dispenser Operation	Inlet	ADA Compliant	H	W	D	Mfr. Model	Item No.
Wall									
Indoor/ Outdoor	1	Front Push Button	⅜" IPS	Yes	6½"	12⅛"	17½"	7433003683	4XR84
	1	Front Push Button	⅜" IPS	No	6½"	12⅛"	12½"	7433003783	4XR85
	1	Lever Handle	⅜" IPS	No	5½"	10"	11"	74045405001	2KLE4
Pedestal									
Outdoor	1	Front Push Button	⅜" Tube O.D.	Yes	34"	11"	26"	74047102000	4XR74
	1	Front Push Button	⅜" Tube O.D.	No	36"	11"	7"	74047152000	4XR75
	2	Front Push Button	⅜" Tube O.D.	Yes	38½"	11"	26"	74047202000	4XR76

Bottle Filling Stations and Retrofit Kits

ELKAY Halsey Taylor

BOTTLE FILLING STATIONS

Cold water capacity of 8 gph. For indoor use and ADA compliant.

With Recessed Mount—Suitable as stand-alone units, or can be paired with Elkay Soft Sides®, SwirlFlo®, or Halsey Taylor OVL-II™ drinking fountains to create a high-end water station.

With Water Cooler, Wall Mount—Fill quickly with one-handed, touchless, sanitary operation. Include WaterSentry® Plus 3000 gal. cap. filtration system. LED indicates when filter replacement is required. The Green Ticker™ counts the number of plastic bottles saved from landfills. Key components have integrated silver ion antimicrobial to protect against mildew growth. GreenSpec® Listed. NSF/ANSI 42 and 53 certified for chlorine, taste and odor, and lead reduction.

RETROFIT BOTTLE FILLING STATIONS AND FILTER CARTRIDGE

Convert an existing water cooler to a bottle filling station. No. 5WNV7 is for Elkay EZ models; No. 6XUY8 for Halsey Taylor HAC models. Filter Cartridge No. 11U265 reduces lead, chlorine, sediment taste and odor from drinking water. 3000 gal. service life. 3¼" outside dia.


Recessed
No. 5LXY8


Water Cooler w/Bottle Filling Station, 2 Levels
No. 6XUZ2


Single Water Cooler w/ Bottle Filling Station
No. 6XUZ0


Retrofit
No. 5WNV7

Drain Connection	Refrigerated / Non-Refrigerated	No. of Levels	Dispenser Operation	Color	Compressor (HP)	Full Load Amps	H	W	D	Brand	Mfr. Model	Item No.
Bottle Filling Stations, Recessed Mount												
1¼"	Refrigerated	1	Electronic Sensor	Stainless Steel	⅛	5A	40 13/16"	19¾"	3½"	Elkay	LZWSM8K	**5LXY8**
	Non-Refrigerated	1		Stainless Steel	—	4A	40 13/16"	19¾"	3½"	Elkay	LZWSMDK	**5LXY9**
Water Cooler with Bottle Filling Stations, Wall Mount												
1¼"	Refrigerated	1	Electronic Sensor (Bottle Filler), Front and Side Pushbar (Fountain)	Light Gray Granite	⅛	4.2A	39 7/16"	18⅜"	19"	Elkay	LZS8WSLP	**39AM86**
	Refrigerated	1		Platinum	⅛	4A	39⅛"	18"	18⅝"	Halsey Taylor	HTHB-HAC8PV-WF	**6XUZ0**
	Refrigerated	1		Stainless Steel	⅛	4.2A	39 7/16"	18⅜"	19"	Elkay	LZS8WSSP	**39AM89**
	Refrigerated	1		Stainless Steel	⅛	4A	39⅛"	18"	18⅝"	Halsey Taylor	HTHB-HAC8SS-WF	**6XUZ1**
	Refrigerated	1	Electronic Sensor (Bottle Filler), Front Button (Fountain)	Stainless Steel	⅛	5A	39 1/16"	18⅜"	19"	Elkay	LZS8WSVRSK	**34K037**
1½"	Refrigerated	2	Electronic Sensor (Bottle Filler), Front and Side Pushbar (Fountain)	Light Gray Granite	⅛	4.2A	39½"	36¾"	19"	Elkay	LZSTL8WSLP	**39AM87**
1¼"	Refrigerated	2		Platinum	⅛	4A	45⅝"	36"	18⅝"	Halsey Taylor	HTHB-HAC8BLPV-NF	**6XUZ2**
1½"	Refrigerated	2		Stainless Steel	⅛	4.2A	39½"	36¾"	19"	Elkay	LZSTL8WSSP	**39AM88**
1¼"	Refrigerated	2		Stainless Steel	⅛	4A	45⅝"	36"	18⅝"	Halsey Taylor	HTHB-HAC8BLSS-NF	**6XUZ3**

Includes	For Use With	Brand	Mfr. Model	Item No.
Retrofit Bottle Filling Station				
3000 Gallon Filter, EZH2O® Station with Basin	Elkay 115V/60HZ Pushbar Activated EZ Style Single, Bi-Level and Bi-Level Reverse Water Coolers	Elkay	LZWSRK	**5WNV7**
3000 Gal. Filter, Hydroboost® Station with Basin	HAC Model Water Coolers	Halsey Taylor	HTHB-HAC-RF	**6XUY8**
Filter Cartridge				
Filter	EZH2O® Bottle Fillers	Elkay	51300C	**11U265**

Water Cooler Replacement Parts and Repair Kits

ELKAY Halsey Taylor

GOOSENECK GLASS FILLER KIT

Gooseneck faucet makes it easy to fill glasses from a water cooler. Field-installable (requires ¾" hole punched in basin); includes fittings.

WATER FILTRATION KITS, NOS. 2XJ47 AND 4YK10

Reduce lead, chlorine, sediment, and taste and odor from drinking water. 1500 gal. service life. 3¼" outside dia.


Solenoid Valve
No. 1WYC6


Push-Button Assembly Kit
No. 5WNV5


Replacement Filter Cartridge
No. 2XJ47


Gooseneck Glass Filler Kit
No. 4XR77

Description	Mfr. Model	Brand	Item No.
Replacement Parts for Elkay and Halsey Taylor Water Coolers			
Regulator Mounting Bracket	23003C	Elkay	**5WNK5**
Compressor Overload Relay	31039C	Elkay	**5WNK9**
Sensor Assembly	31384C	Elkay	**5WNL1**
Cold Control Thermostat	31513C	Elkay	**2XJ49**
Cold Control Thermostat, Includes Cold Control and Sensor Wire Assembly	35839C	Halsey Taylor	**5WMU2**
Cold Control Thermostat, 2½"L	35882C	Elkay	**5WNL7**
Solenoid Valve	35981C	Elkay	**1WYC6**
Sleeve-Push Button Guide	45663C	Elkay	**5WNP7**
Integral Bubbler Assembly with Push Button, ⅜" -18 NSPM	45703C	Elkay	**5WNP8**
Regulator Mounting Bracket	55880C	Elkay	**5WNR2**
Strainer	55996C	Elkay	**2XJ52**
Polytubing, 72"L	56092C	Elkay	**5WNR8**
Cartridge Regulator	60290C	Elkay	**3EMZ4**
Lock Nut	70012C	Elkay	**2XJ53**
Tee Quick Connect Coupling	70682C	Elkay	**5WNT7**
Straight Union Quick Connect Fitting	70683C	Elkay	**5WNT8**
Quick Connect Stem Elbow, ⅜" x ⅜"	70818C	Elkay	**5WNU0**
Superseal Fitting, ⅜"	70823C	Elkay	**5WNU2**
Cartridge Holder	92450c	Elkay	**1WYC7**
Vandal Resistant Bubbler Replacement Kit	97446C	Elkay	**15W917**
Drain Replacement Kit for Water Cooler, EZTL	97969C	Elkay	**15W918**
Drain Replacement Kit for Water Cooler, EZ	97970C	Elkay	**15W919**
Solenoid Valve Regulator Assembly Kit	98466C	Elkay	**5WNU8**
O-Ring and Fitting Repair Kit	98532C	Elkay	**5WNV2**
Overload, Relay and Cover Kit for EMI70HNR Compressor	98535C	Elkay	**5WNV4**
Push-Button Assembly	98536C	Elkay	**5WNV5**
Push Bar Repair Kit	98537C	Elkay	**5WNV6**
Bottle Filler Bottle Filler Components Kit	98549C	Elkay	**15W920**
Gasket Kit	98677C	Elkay	**15W921**
Bottle Filler Regulator Kit for Outdoor Bottle Fillers	98678C	Elkay	**15W922**
Evaporator Kit	98724C	Elkay	**15W923**
Regulator Kit, for Elkay and Halsey Taylor Pushbutton-Activated Models, Except SCWT	98731C	Elkay	**15W924**
Regulator Kit, for Elkay and Halsey Taylor Pushbar-Activated and SCWT Models	98732C	Elkay	**15W925**
Regulator Kit for Freeze-Resistant Boxes and Outdoor Bottle Fillers	98733C	Elkay	**15W926**
EZ Pushbar Activations	98734C	Elkay	**15W927**

Description	Mfr. Model	Brand	Item No.
Compressor Electrical Components for EM65HHR Compressor	98749C	Elkay	**15W928**
Compressor Electrical Components for KIT-FFL12HBX Compressor	98755C	Elkay	**15W930**
Fan Motor Assembly	98775C	Elkay	**15W931**
Compressor Water Cooler Compressor Mounting Kit	98777C	Elkay	**15W932**
Fixed Pin Spanner Wrench	36158000	Elkay	**5WNU9**
Push Bottom Assembly	601451151550	Elkay	**5WNT3**
Replacement Parts for Elkay Water Coolers			
Upper Shroud, for Elkay EZ Series Water Coolers	56228C	Elkay	**5WNT0**
Upper Shroud Assembly, for Elkay EZ Series Water Coolers	56229C	Elkay	**5WNT1**
Drinking Fountain Head	92715c	Elkay	**1WYC8**
Replacement Parts for Halsey Taylor Water Coolers			
Replacement Filter Cartridge, 1550 Gal.	55897C	Halsey Taylor	**5WMU5**
Push Bottom Assembly	92776C	Halsey Taylor	**5WMU1**
Chrome Bubbler Kit	98533C	Halsey Taylor	**5WMU7**
Drain Plug, 3" OD	102639931640	Halsey Taylor	**5WMU0**
Diaphragm Repair Kit	600805051550	Elkay	**5WNT2**
Right Hand Cold Water Supply Assembly	601480051550	Elkay	**5WNT4**
Right Hand Right Hand Flow Valve and Regulator	602622951550	Elkay	**5WNT5**
Integral Bubbler Assembly with Push Button, ⅜"	A54881	Halsey Taylor	**5WMU6**
Glass Filler Kit (For Use with Water Cooler Nos. 1CVX1, 2KLD5, 2KLD7, 2KLD8, 2W188 & 2W191)			
Gooseneck Glass Filler Kit	96852CA	Halsey Taylor	**4XR77**
Water Filtration for Water Coolers			
Replacement Filter Cartridge, For Use with No. 4YK10	51299C	Elkay	**2XJ47**
WaterSentry® Water Cooler Filter, 12½"L	EWF172	Elkay	**4YK10**
Drain Service Kit for Halsey Taylor HAC Models			
Drain Service Kit, Incl. Drain Gasket, Plug, Elbow, Nut and Washer	98856C	Halsey Taylor	**15W933**
Wiring Harness Service Kit for Halsey Taylor HTV Models			
Wiring Harness Service Kit	98869C	Halsey Taylor	**15W934**



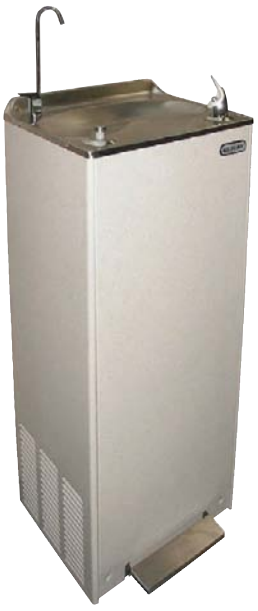
No. 1MCE5



No. 1PX54



No. 1PX55



No. 3EMZ1



No. 34K001

Water Coolers

- Inlet connection: ⅜" O.D. tubing
- Refrigerant HFC134A (CFC free)
- 115VAC
- Capacity of 50°F drinking water based upon 80°F inlet water and 90°F ambient

Halsey Taylor. ELKAY

Premium-quality coolers have a waterway system with stainless steel tanks, copper components, and lead-free materials; an easy-to-clean strainer traps particulates before they enter the cooler. Units feature permanently lubricated compressor and fan motor, a refrigeration system dryer, and preset temperature control that only requires altitude adjustment. All models have a splash-resistant stainless steel basin. In-line flow regulator (except for Nos. 34J988 and 49T426) maintains constant stream height at line pressures of 20 to 105 psi. Removable front panels for maintenance. P-trap not included; see page 2722. Units with a push bar can activate a stream of water during a power outage. Nonpressurized cooling tank on single-level units (except for Nos. 34J988 and 49T426) minimizes water damage in case of rupture.

Wall-Mount, High-Efficiency, No. 3EMZ3—GreenSpec® Listed; uses less energy and less water than standard models.

Wall-Mount, Electronic Sensor, Nos. 2KLF4 to 2KLF7—Feature sanitary, hands-free operation. WaterSentry® filter reduces lead, chlorine, and particulates; LED display (except for upper unit on Bi-Level models Nos. 2KLF6 and 2KLF7) indicates when filter needs replacing. Quick-connect with auto shutoff for easy filter cartridge changing (use No. 2XJ47, see page 2719).

Drain Connec.	Refrigerated / Non-Refrigerated	Cold Water Cap.	No. of Levels	Dispenser Operation	Color	Comp. (HP)	Full Load Amps	H	W	D	Brand	Mfr. Model	Item No.
Wall-Mount, Indoor													
1¼"	Ref.	7.6	1	Top Push Button	Platinum	⅛	4A	28"	18⅛"	14¼"	Halsey	8203080041	**2W188**
		13.5	1	Top Push Button	Platinum	⅓	7.5A	28"	18⅛"	14¼"	Halsey	8203140041	**2W191**
Wall-Mount, High Efficiency, ADA-Compliant, Vandal Resistant, Indoor/Outdoor													
1¼"	Ref.	8.0	1	Front Push Button	Stainless Steel	⅛	2.8A	20⅝"	18 1⁄16"	18 1⁄16"	Elkay	VRCGRN8	**3EMZ3**
Wall-Mount, ADA-Compliant, With Filter Monitor, Indoor													
1¼"	Ref.	8.0	1	Electronic Sensor	Light Gray Granite	⅛	4A	19 13⁄16"	18⅜"	19"	Elkay	LZO8L	**2KLF4**
		8.0	1	Electronic Sensor	Stainless Steel	⅛	4A	19 13⁄16"	18⅜"	19"	Elkay	LZO8S	**2KLF5**
1½"		8.0	2	Electronic Sensor & Front Pushbar	Light Gray Granite	⅛	4A	25 5⁄16"	36¾"	19"	Elkay	LZOSTL8LC	**2KLF6**
		8.0	2	Electronic Sensor (Bottle Filler), Front & Side Pushbar (Fountain)	Stainless Steel	⅛	4A	25 5⁄16"	36¾"	19"	Elkay	LZOSTL8SC	**2KLF7**
Wall-Mount, ADA-Compliant, Vandal Resistant, Indoor/Outdoor													
1¼"	Ref.	8.0	1	Front Push Button	Stainless Steel	⅛	4A	19 9⁄16"	18¼"	18⅝"	Halsey	8250080083	**2KLD9**
		8.0	1	Front Push Button	Stainless Steel	⅛	5A	20⅝"	18"	18½"	Elkay	VRC8S	**2KLF3**
		8.0	1	Front Push Button	Stainless Steel	⅛	4A	20 7⁄16"	18 9⁄16"	20 7⁄16"	Elkay	VRCHD8S	**6XUY7**
1½"		8.0	2	Front Push Button	Stainless Steel	⅛	4A	27¼"	36⅛"	18⅝"	Halsey	8751080083	**2KLE1**
		8.0	2	Front Push Button	Stainless Steel	⅛	5A	27⅛"	36 5⁄16"	18 1⁄16"	Elkay	VRCTL8SC	**2KLE9**
Wall-Mount, ADA-Compliant, Indoor													
1¼"	Ref.	8.0	1	Front & Side Pushbar	Stainless Steel	⅛	4A	20 7⁄16"	18¼"	18⅝"	Halsey	HAC8SS-NF	**1CVX1**
		8.0	1	Front & Side Pushbar	Platinum	⅛	4A	20 7⁄16"	18¼"	18⅝"	Halsey	HAC8PV-NF	**2KLD6**
		8.0	1	Front & Side Pushbar	Light Gray Granite	⅛	5A	20⅝"	18 1⁄16"	18⅝"	Elkay	EMABF8L	**2KLF1**
		8.0	1	Front & Side Pushbar	Light Gray Granite	⅛	4A	23⅞"	18"	18¾"	Elkay	EHFSA8L1Z	**1MCE5**
		8.0	1	Front & Side Pushbar	Light Gray Granite	⅛	4A	19 13⁄16"	18⅜"	19"	Elkay	EZS8L	**1PX54**
		8.0	1	Front Pushbar	Stainless Steel	⅛	4A	40 13⁄16"	19¾"	18"	Halsey	8634083683	**2KLE2**
		8.0	1	Front Pushbar	Platinum Vinyl	⅛	4A	19 13⁄16"	18⅜"	19"	Halsey	HTVZ8PV-NF	**46FT82**
		8.0	1	Front Pushbar	Platinum Vinyl	⅛	4A	19 13⁄16"	18⅜"	19"	Halsey	HTVZ8PV-WF	**46FT83** *
		8.0	1	Front Pushbar	Stainless Steel	⅛	4A	19 13⁄16"	18⅜"	19"	Halsey	HTVZ8SS-NF	**46FT84**
		8.0	1	Front Pushbar	Stainless Steel	⅛	4A	19 13⁄16"	18⅜"	19"	Halsey	HTVZ8SS-WF	**46FT85** *
		8.0	1	Front & Side Pushbar	Stainless Steel	⅛	4A	19 13⁄16"	18⅜"	19"	Elkay	EZS8S	**34J988**
	Non-Ref.	—	1	Front Pushbar	Platinum Vinyl	⅛	1A	19 13⁄16"	18⅜"	19"	Halsey	HTVZDPV-NF	**46FT90**
		—	1	Front Pushbar	Platinum Vinyl	⅛	1A	19 13⁄16"	18⅜"	19"	Halsey	HTVZDPV-WF	**46FT91** *
		—	1	Front Pushbar	Stainless Steel	⅛	1A	19 13⁄16"	18⅜"	19"	Halsey	HTVZDSS-NF	**46FT92**
		—	1	Front Pushbar	Stainless Steel	⅛	1A	19 13⁄16"	18⅜"	19"	Halsey	HTVZDSS-WF	**46FT93** *
1½"	Ref.	8.0	2	Front & Side Pushbar	Stainless Steel	⅛	4A	27¼"	36⅛"	18⅝"	Halsey	HAC8BLSS-NF	**2KLD7**
		8.0	2	Front & Side Pushbar	Platinum	⅛	4A	27¼"	36⅛"	18⅝"	Halsey	HAC8BLPV-NF	**2KLD8**
		8.0	2	Front & Side Pushbar	Light Gray Granite	⅛	4A	27"	36¼"	18⅝"	Elkay	EMABFTL8LC	**2KLF2**
		8.0	2	Front & Side Pushbar	Light Gray Granite	⅛	4A	25 5⁄16"	36¾"	19"	Elkay	EZSTL8LC	**1PX55**
		8.0	2	Front Pushbar	Stainless Steel	⅛	4A	40 13⁄16"	38½"	18"	Halsey	8634084883	**2KLE3**
		8.0	2	Front Pushbar	Platinum Vinyl	⅛	4A	25 5⁄16"	36¾"	19"	Halsey	HTVZ8BLPV-NF	**46FT78**
		8.0	2	Front Pushbar	Platinum Vinyl	⅛	4A	25 5⁄16"	36¾"	19"	Halsey	HTVZ8BLPV-WF	**46FT79** *
		8.0	2	Front Pushbar	Stainless Steel	⅛	4A	25 5⁄16"	36¾"	19"	Halsey	HTVZ8BLSS-NF	**46FT80**
		8.0	2	Front Pushbar	Stainless Steel	⅛	4A	25 5⁄16"	36¾"	19"	Halsey	HTVZ8BLSS-WF	**46FT81** *
	Non-Ref.	—	2	Front Pushbar	Stainless Steel	⅛	1A	25 5⁄16"	36¾"	19"	Halsey	HTVZDBLSS-NF	**46FT88**
Free-Standing, With Water Cooled Condenser, Indoor													
1¼"	Ref.	16.0	1	Top Push Button	Light Gray Granite	⅓	6.5A	41½"	18"	14½"	Elkay	EFW16L1Z	**4CE98**
Free-Standing, With Cold-Water Glass Filler, Indoor													
1¼"	Ref.	8.0	1	Top Push Button	Light Gray Granite	⅛	4A	41½"	18"	14½"	Elkay	EFA8L1110P	**3EMZ1**
Free-Standing, Indoor/Outdoor													
1¼"	Ref.	13.5	1	Top Push Button	Stainless Steel	⅓	7.5A	40"	16"	18½"	Halsey	8226143383	**4XR82**
Free-Standing, Indoor													
1¼"	Ref.	3.0	1	Top Push Button	Platinum	⅛	2.5A	37"	12¼"	12¼"	Halsey	8205020041	**2W154**
		3.0	1	Top Push Button	Light Gray Granite	—	3.5	38"	12"	12"	Elkay	FD7003L1Z	**34K001**
		5.0	1	Top Push Button	Platinum	⅛	2.5A	37"	12¼"	12¼"	Halsey	8205050041	**2W155**
		8.0	1	Top Button & Foot Pedal	Light Gray Granite	⅛	4A	41½"	18"	14½"	Elkay	EFA8LP1Z	**3EMY8**
		8.0	1	Top Push Button	Light Gray Granite	⅛	9.5A	41½"	18"	41½"	Elkay	EFHA8L1Z	**4CE97** †
		9.8	1	Top Push Button	Platinum	¼	5.8A	37"	12¼"	12¼"	Halsey	8205100041	**2W156**
		13.5	1	Top Push Button	Platinum Vinyl	⅓	7.2	40"	18⅛"	14¼"	Halsey	8226140041	**49T426**
		14.0	1	Top Button & Foot Pedal	Light Gray Granite	⅓	7.2A	41½"	18"	14½"	Elkay	EFA14LP1Z	**3EMY9**
		20.0	1	Top Push Button	Light Gray Granite	⅓	7.2A	41½"	18"	14½"	Elkay	EFA20LK1Y	**3EMY7**

** Includes filter. † Hot/cold water unit.*

Bottled Water Dispensers and In-Line Dispensers

OASIS® Water Friendly Solutions

Certified WBENC Women's Business Enterprise

Feature a stainless steel reservoir for cold water and hot water (on models with hot water capability). Bottled Water Dispensers Nos. 29NT99 to 29NU05 feature a WaterGuard® system that helps reduce spills during bottle changes and reduces the chance for dirt and dust to enter the cooler reservoir. Nos. 39AN02 and 447J85 allow you to bottom-load a 5-gal. water bottle, while No. 39AN02 also lets you connect the unit to a water line and eliminate the hassle of bottle changes. Nos. 29NU06 and 29NU07 have removable plastic reservoirs. In-Line Dispensers Nos. 34TG61 to 34TG64 are bottleless and have a dual-float system with a built-in safety float to help prevent overflowing. Models dispensing hot water feature a child-resistant hot water faucet. All dispensers have a 3-yr. limited manufacturer's warranty. UL Listed and Energy Star® rated. Nos. 29NT99 to 29NU07 and 447J85 are also C-UL Listed.

Dispenser Design	Dispensing Temp.	Dispenser Color	H (in.)	W (in.)	D (in.)	Voltage	Amps AC	Mfr. Model	Item No.
Bottled Water Dispenser, 3 to 5 gal. Bottle Size									
Free-Standing	Cold, Hot	Black	43⅞	13	12 13/16	120VAC	5	BPO1SHS	**29NU03**
	Cold, Hot	Black	43⅞	13	12 13/16	120VAC	5.5	BPD1SHS	**33KF09**
	Cold, Hot	Stainless Steel	35⅞	12	12½	120VAC	5	BTSA1SHS	**29NU05**
	Cold, Hot	White	38 1/16	12½	12½	120VAC	5.5	BPD1SHS	**46KL44**
	Cold, Hot	White	38¾	13⅛	13	120VAC	1.2	B1RRHS	**29NU07**
	Cold, Hot	White	43⅞	13	12 13/16	120VAC	5	BPO1SHS	**29NU02**
	Cold, Hot, Room Temp.	Black	44½	14½	14 13/64	115VAC	5.4	BAEB1SHSK	**447J85**
	Cold, Room Temp.	Black	43⅞	13	12 13/16	120VAC	1.2	BPD1SK	**29NU01**
	Cold, Room Temp.	Stainless Steel	35⅞	12	12½	120VAC	1.2	BTSA1SK	**29NU04**
	Cold, Room Temp.	White	38¾	13⅛	13	120VAC	1.2	B1RRK	**29NU06**
	Cold, Room Temp.	White	43⅞	13	12 13/16	120VAC	1.2	BPD1SK	**29NT99**
Inline Water Dispenser									
Free-Standing	Cold, Hot	Black	43⅞	13	29⅜	120VAC	1.2	POUD1SHS	**45DL39**
	Cold, Hot	Stainless Steel	42⅞	12	12½	120VAC	5.5	PSWSA1SHS	**34TG64**
	Cold, Hot	White	43⅞	13	12 13/16	120VAC	5.5	POUD1SHS	**34TG62**
	Cold, Hot, Room Temp.	Silver	46	13	17	120VAC	5.5	POU2LRHK	**39AN03**
	Cold, Room Temp.	White	43⅞	13	12 13/16	120VAC	1.2	POUD1SK	**34TG61**
Water Dispenser									
Free-Standing	Cold, Hot, Room Temp.	Black	41	13	13	120VAC	5.5	MIR311D-3	**39AN02**

For Use With Grainger Item Number	Color	Size	Mfr. Model	Item No.
Faucet Assemblies				
29NU02, 29NT99, 34TG61, 34TG62, 46KL44, 29NU06, 29NU07	White/Blue	⅜" FNPT	032135-104	**33KL05**
29NT99, 34TG61, 29NU06	White/White	⅜" FNPT	032135-106	**33KL06**
29NU02, 29NT99, 34TG62, 46KL44, 29NU07	White/ Safety Red	⅜" FNPT	032135-114	**33KL07**
29NU01, 29NU04, 29NU05, 33KF09, 34TG64, 29NU03, 45DL39	Black/Blue	⅜" FNPT	032135-121	**33KL08**
29NU01, 29NU04	Black/White	⅜" FNPT	132135-122	**33KL09**
29NU05, 33KF09, 34TG64, 29NU03, 45DL39	Black/ Safety Red	⅜" FNPT	132135-123	**33KL10**
29NU06, 29NU07	White/Blue	⅜" MNPT	133552-002	**33KL11**
29NU06	White/White	⅜" MNPT	033552-001	**33KL12**
29NU07	White/ Safety Red	⅜" MNPT	033552-003	**33KL13**
Cup Dispensers				
29NT99, 29NU02, 29NU06, 29NU07, 46KL44, 34TG61, 34TG62, 46KL44	White	16½"L	038820-001	**33KL19**
29NU01, 29NU03, 29NU05, 33KF09, 29NU13, 29NU04, 29NU13, 45DL39, 34TG64, 39AN02, 39AN03	Black	16½"L	038820-002	**33KL20**
Water Guards				
29NT99, 29NU02, 46KL44, 29NU06, 29NU07	White	5"L	033964-021	**33KL21**
29NU01, 33KF09, 29NU03, 29NU04, 29NU05, 29NU13	Black	5"L	033964-022	**33KL22**
29NU06, 29NU07	White	5"L	033963-010	**33KL23**



No. 29NU01



No. 34TG64



No. 34TG61



No. 39AN02

Purlogix

Electronic Water Dispensers

- Multistage filtration

UV in-tank disinfection protects the integrity of the purified water while it is being chilled or heated. Feature a large-capacity stainless steel reservoir and hot tank, push-button electronic dispensing, and hot switch with LED indicator on front panel. Easy access to replace factory-installed internally mounted filter cartridges (replacement cartridges sold separately).

Dispenser Design	Voltage	Dispenser Color	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Inline Water Dispenser, Cold, Hot							
Free-Standing	120VAC	White	49¾	13	15½	BluV-MPW	**39AP24**
Free-Standing	120VAC	Black	49¾	13	15½	BluV-MP	**39AP25**
Counter Top	120VAC	Black	17¼	13	14 21/32	IPC2U	**39AP28**

Item	Fits Brand	For Use With	Mfr. Model	Item No.
Accessories				
Water Cooler Filter, Sediment	Purlogix	BluV-MPW, BluV-MP	PL1100-0001	**2YMY6**
Water Cooler Filter	Purlogix	BluV-MPW, BluV-MP	PL1100-0006	**2YMY7**
Replacement Filter	Purlogix	Mfr. No. BluV-MPW, BluV-MP	PL1100-0005	**39AP26**
Replacement Filter	Interpure	Mfr. No. IPC2U	ENIN1100-0001	**39AP27**
Replacement Filter	Purlogix	Mfr. No. IPC2U	ENIN1100-0008	**39AP23**
Mercury Vapor Ultra Violet Bulb	Purlogix	BluV-MPW, BluV-MP	PCM0001A	**2YMY8**



No. 39AP24



No. 39AP28



No. 2YMY7







GA GRAINGER APPROVED

Lavatory/Kitchen P-Traps, S-Traps, and J-Bends

Description	Pipe Dia. - Drains	L (in.)	Connection	Brass, 17 Ga. Item No.	Brass, 22 Ga. Item No.	White/Plastic, Polypropylene Item No.
Kitchen						
J-Bend	1½"	5½	Slip	1PNK4	1PNL9	—
J-Bend	1½"	5½	Slip x FNPT	1PNK5	489W07	—
J-Bend	1½"	5½	Slip x Solvent	—	—	1PNX4
J-Bend	1½"	5½	Slip x FNPT	—	489W15	—
J-Bend	1½"	5¾	Slip x FNPT	489W21	—	—
J-Bend, w/Clenaout	1½"	5¾	Slip	1PNK7	—	—
P-Trap	1½"	11½	Slip	1PNL1	1PNN5	—
P-Trap	1½"	11¾	Slip	—	—	1PNX6
P-Trap w/Clenaout, Slip Nuts And Washer	1½"	11½	Slip	1PNL3	—	—
S-Trap	1½"	20	Slip	489W06	—	—
Lavatory						
J-Bend	1¼"	5⅛	Slip	1PNK3	1PNL8	1PNW8
J-Bend, w/Clenaout	1¼"	5¼	Slip	1PNK6	—	—
P-Trap	1¼"	11½	Slip	1PNK9	1PNN4	—
P-Trap	1¼"	11¾	Slip	—	—	1PNX5
P-Trap, w/Clenaout	1¼"	11½	Slip	1PNL2	—	—
S-Trap	1¼"	19½	Slip	489V99	—	—
S-Trap	1¼"	20	Slip	—	489W10	—
S-Trap	1½"	19½	Slip	—	—	1PNX9
S-Trap, w/Clenaout	1¼"	20	Slip	1PNL6	—	—
Lavatory/Kitchen						
J-Bend, 5¼"L	1½"	5¼	Slip x FNPT	—	—	1PNX1
J-Bend, 5½"L	1½"	5½	Slip x FNPT	—	—	1PNX2
P-Trap	1½" x 1¼"	—	Slip	4FEX2	4FEW1	—
P-Trap	1½" x 1¼"	11¾	Slip	—	—	1PNX7
P-Trap, Flexible	1½"	12	Slip	—	—	1PPC5
Repair Trap	1½" or 1¼"	—	Slip	—	1PNP1	—

TRUEBRO IPS CORPORATION

Undersink Piping Protectors

- Fit most undersink piping
- Easy installation—no tools required

Cushion and provide thermal protection in handicapped-accessible lavatories to assure ADA compliance. Easy-to-clean molded vinyl resists impact, stains, and chemicals. Conceal piping, electronic faucet connections, mixing valves, and trap primers.



No. 1ATD4

LAVATORY SHIELD, NO. 1ATD4

Rigid, high-impact PVC shield includes wall anchors and stainless steel screws. UV protected.



No. 1ATD3

Description	Pipe Dia. - Drains	Item No.
P-Trap, Valves and Piping Covers		
P Trap And Two Valve Covers	1¼" or 1½"	1ATB9
P-Trap Pipe Cover	1¼" or 1½"	1ATD2
Offset Pipe Cover	1¼" or 1½"	1ATD3
Angle Valve And Supply Cover	1¼" or 1½"	1ATD1

Description	Item No.
Shield and Guards	
Lavatory Shield	1ATD4
Undersink Pipe Guard	15W937
Basin Guard, 36"L	15W938
Basin Guard, 42"L	15W939

STUDOR IPS CORPORATION

Air Admittance Valves

No. 1ATD5



- Use as individual, branch, circuit, or stack vents

Allow air to enter DWV systems to equalize pressure when water drains out of the system; eliminate the need for costly roof penetrations and vent piping. Nos. 1ATD5 and 1ATD6 meet ASSE 1050/1051 and NSF 14.

Type	For Use With	Pipe Dia. - Drains	Color/ Finish	Material of Construction	Item No.
MAXI-VENT®	Venting Single Fixture, Individual Branch, Circuit Vent Or Stack Type Application Up To 500 DFU	3" to 4"	White	ABS	1ATD5
MINI-VENT®	Venting Single Fixture, Individual Branch, Circuit Vent Or Stack Type Application Up To 160 DFU	1½" to 2"	White	ABS	1ATD6
MAXI-FILTRA™	Filtering Sewer Gas	3" or 4"	Black	ABS	15W940
MAXI-CAP™	Maxi Vent®	—	Silver	Aluminum	15W941









GA GRAINGER APPROVED

Lavatory/Kitchen Extensions, Couplings, Tees, and Tailpieces

Item	Connection	Pipe Dia. - Drains	L (in.)	Chrome/Brass - 20 Ga. Item No.	Chrome/Brass - 22 Ga. Item No.	White/ Polypropylene Item No.
45 Degree, Lavatory/Kitchen						
Elbow	Slip	1½" or 1¼"	4	—	—	1PPA2
	Slip	1½" or 1¼"	4½	—	1PNU2	—
90 Degree, Lavatory/Kitchen						
Elbow	Slip	1½" or 1¼"	3	—	—	1PPA1
	Slip	1½" or 1¼"	4	—	1PNP8	—
Dishwasher						
Tailpiece	Direct Connection x Slip	1½"	8	489W22	1PNV1	—
	Slip x Barb	1½"	8	—	—	1PPA9
Kitchen						
Center Outlet	Direct Connection	1½"	16	—	489W03	—
	Direct Connection x Slip	1½"	6⅝	—	489V96	—
	Slip	1½"	6¼	—	489W14	—
Center Outlet Waste Tee	Direct Connection	1½"	16	—	1PNR7	—
	Direct Connection or Slip	1½"	16	—	—	1PNY4
Dishwasher Tailpiece	Slip x Barb	1½"	8⅛	—	—	4FEY8
End Outlet Waste Tee	Direct Connection or Slip	1½"	16	—	—	1PNY2
	Slip	1½"	6¼	—	1PNP3	—
	Slip	1½"	16	—	1PNR6	—
Extension	MNPT x MNPT	1½"	6	—	489W19	—
	MNPT x MNPT	1½"	12	—	489W24	—
	Slip	1½"	6	—	1PNU1	4FEY5
	Slip	1½"	8	—	—	1PNZ5
	Slip	1½"	12	—	1PNP6	1PNZ6
Tailpiece	Flanged	1½"	4	—	—	1PNZ1
	Flanged	1½"	6	—	1PNR9	4FEY4
	Flanged	1½"	8	—	—	1PNY8
	Flanged	1½"	12	—	1PNP2	1PNY9
	Flanged x FNPT	1½"	1	—	489W04	—
Wall Tube	Slip	1½"	8½	—	1PNN9	—
Waste Arm	Slip	1½"	7	—	489W23	4FEY2
	Slip	1½"	15	—	1PNP7	1PNY1
Kitchen End Outlet						
End Out Double Bowl Installation Kit	Direct Connection or Slip	1½"	16	—	—	4FEY9
Kitchen Flexible						
Tailpiece	Direct Connection	1½"	12	—	—	1PPC6
Lavatory						
Extension	Fine Thread	1¼"	12	—	1PNT2	—
	MNPT x MNPT	1¼"	6	—	1PNT1	—
	Slip	1¼"	6	—	1PNT9	1PNY6
	Slip	1¼"	8	—	—	4FEZ1
	Slip	1¼"	12	—	1PNP5	1PNZ2
Wall Tube	Slip	1¼"	6½	—	1PNN8	—
Lavatory/Kitchen						
Coupling	Slip	1½" or 1¼"	2⅜	—	1PNP9	—
	Slip	1½" or 1¼"	3½	—	—	1PPA5
Flexible Coupler	Slip	1½" or 1¼"	6¾	—	—	1PPC9
Tee	Slip	1½" or 1¼"	3½	—	—	1PPA4
Lavatory Flexible						
Extension	Slip	1¼"	8	—	—	1PPC7

SweetAir

No. 32V293



Vent Stack Odor Eliminator

Activated carbon (included with filter) helps stop offensive odors, including hydrogen sulfide gas, produced in commercial and residential drain pipes and septic systems. Unit easily attaches to vent stack pipes.

Description	Pipe Dia. - Drains	Color/ Finish	Material of Construction	Item No.
Vent Stack Filter w/8 Oz. Activated Carbon Charge	3" or 4"	Black	ABS	32V293
Replacement Carbon	—	—	—	32V294



No. 31XJ61



No. 31XJ53

GA GRAINGER APPROVED Kissler

Drain Accessories

Description	Pipe Dia. - Drains	Item No.		Pkg. Qty.
Escutcheons				
One Piece, Brass	1½"	489W05		10
One Piece, Steel	1¼"	1PNV6		10
Two Piece, 430 Stainless Steel	1"	1PPE4		1
Two Piece, Stainless Steel	⅜"	1PPE1		1
	½"	1PPE2		1
	¾"	1PPE3		1
Two piece, Stainless Steel	1¼"	4FEZ2		1
	1½"	4FEZ3		1
Faucet Covers and Drain Plunger				
Drain Plunger, Plastic	1¼"	1PPH8		1
Faucet Hole Cover, Bolt In, Plastic	1½"	1PPJ6		1
Faucet Hole Cover, Bolt In, Stainless Steel	1½"	1PPJ5		1
Faucet Hole Cover, Snap In, Stainless Steel	1½"	1PPJ7		1
Flange				
Kitchen, Box Flange, Steel	1½"	4FEX5		1
Stoppers and Chains				
Disposal Stopper, Rubber	3⅛" to 4⅛"	4FEW6		1
Kitchen Sink Stopper, Flat, Rubber	5"	4FEW5		1
Stopper, for Sinks, Basins, Laundry Tubs and Other Drain Openings, Rubber	1⅛" to 1¼"	1PPH3		5
	1⅜" to 1½"	1PPH4		5
	1⅝" to 1¾"	1PPH5		5
Stopper Chain, 15"L,	—	1PPH2		5
Stopper With Chain, for Sinks, Basins, Laundry Tubs and Other Drain Openings, Rubber	1" to 1⅜"	1PPJ1		1
	1½" to 2"	1PPJ2		1
Strainers and Baskets				
Basin Drain Strainer, Plastic	1"	1PPG1		1
Catch-All Drain Strainer, Stainless Steel	1⅝"	1PPG4		1
	1⅞"	1PPG5		1
Flat Drain Strainer, Aluminum	3"	1PPG6		1
Kitchen, Mesh Strainer, Stainless Steel	3½"	1PPG9		1
Lavatory, Mesh Strainer, Stainless Steel	1¼"	1PPG7		1
Post Design, Sink Basket, Stainless Steel	3"	1PPF9		1
Sink Strainer, Brass	3½" to 4"	1PPF4		1
Sink Strainer, Stainless Steel	3½"	1HEG4		1
Sink Strainer, Top Tighten, Plastic, Stainless Steel	3½" to 4"	1PPF7		1
Sink Strainer, Twist and Lock, Stainless Steel	3½" to 4"	1PPF6		1
Sink Strainer Assembly, Stainless Steel	1½"	4FEW4		1
Tub, Mesh Strainer, Stainless Steel	1⅜" to 1½"	1PPG8		1
Universal Style, Sink Basket, Stainless Steel	3 13/64"	1PPF8		1
Supply Lines				
Faucet Connector, Inlet ⅜", Outlet ½", Compression, Stainless Steel Braided	—	31XJ53	*	1
Washing Machine Connector, Inlet ¾", Outlet ¾", Hose, Stainless Steel Braided	—	31XJ61	*	1
Washers, Gaskets, Nuts, and Trap Vent				
Assortment, Washer, Polyethylene	Assorted	1PPB5		30
Gasket, for Pop Up Drains, Rubber	1¼"	1PNV5		10
Gasket, for Pop-up Drains, Rubber	1½"	4FEX4		1
Kitchen, Slip-Nut, Zinc	1½"	1PNW5		10
Kitchen, Slip-Nut And Washer, Polypropylene	1½" or 1¼"	1PPB7		10
Kitchen, Tailpiece, Washer, Polyethylene	1½"	1PPC2		10
Kitchen, Tailpiece, Washer, Rubber	1½"	1PNV9		10
Kitchen, Washer, Polyethylene	1½"	1PPB3		10
Kitchen, Washer, Rubber	1½"	1PNW1		10
Lavatory, Slip-Nut, Zinc	1¼"	1PNW4		10
Lavatory, Slip-Nut And Washer, Polypropylene	1¼"	1PPB6		10
Lavatory, Washer, Polyethylene	1¼"	1PPB2		10
Lavatory, Washer, Rubber	1¼"	1PNV8		10
Lavatory/Kitchen, Slip-Nut And Washer, Zinc	1¼" to 1½"	1PNW6		10
	2"	1PNW7		10
Lavatory/Kitchen, Washer, Polyethylene	1¼" to 1½"	1PPB4		10
Lavatory/Kitchen, Washer, Rubber	1¼" to 1½"	1PNW2		10
Rubber Washer Assortment, Rubber	1¼" and 1½"	1PNW3		8
Slip-Nut, Brass, ½" L	1½"	489V83		1
Slip-Nut, Brass, 15/32" L	1¼"	489V79		1
	1½"	489V80		1
Slip-Nut, Brass, 31/64" L	1½"	489V81		1
Slip-Nut, Brass, 33/64" L	1¼"	489V82		1
Waste Connectors				
Kitchen Waste Connector, Slip x FIP, Brass	1½"	1PNU8		1
Kitchen Waste Connector, Slip x MIP, Brass	1½"	1PNU6		1
Waste Connect, Slip x MIP, Brass	1¼"	489W18		1

** Kissler brand.*

AB&A IPS CORPORATION
GA GRAINGER APPROVED
WATCO Oatey®
SMITH JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies



Push Pull® Tub Stopper No. 6AVK7



General Purpose Drain No. 4FRU2

Bathtub, Sink, and Shower Drains

Description	Drain Material	Pipe Dia. - Drains	Connection	L (in.)	Brand	Item No.	
Bathtub Drains							
Bath Waste, Finish Kit, 1-hole, Push&Lift	Brass	1½"	Screw	2½"	AB&A	38R069	*
Bath Waste, Full Kit, 1-hole, Push&Lift	Sched 40 PVC	1½"	Solvent Weld	2½"	AB&A	38R064	*
Bath Waste, Full Kit, 2-hole, Push&Lift	Brass	1½"	Screw	2½"	AB&A	38R071	†
Bath Waste, Half Kit, 2-hole, Push&Lift	Sched 40 PVC	1½"	Solvent Weld	2½"	AB&A	38R066	*
Bath Waste, Half Kit, 2-hole, Touch Toe Stopper	Sched 40 PVC	1½"	Solvent Weld	2½"	AB&A	38R067	*
Bath Waste, Trim Kit, Classic Push&Lift	Sched 40 ABS	1½"	Screw	—	AB&A	38R073	*
Bath Waste w/Plated Brass Strainer	PVC	1½"	—	—	GA	489V91	#
Drain Easy Touch	Polypropylene	1½"	Slip	12	GA	1YHD3	
Foot Actuated Tub Closure	Chrome-Plated Brass	2"	5/16" Brass Pin	2.66	Watco	6AVK6	
Foot Actuated Tub Closure	Chrome-Plated Brass	2⅞"	1⅜-16 Fine Thread	1.25	Watco	6AVL0	
Foot Actuated Tub Closure	Chrome-Plated Brass	2⅞"	1½-11-1/2 Coarse Thread	1.25	Watco	6AVL4	
Lift & Turn Tub Closure	Chrome-Plated Brass	2⅞"	1⅜-16 Fine Thread	1.25	Watco	6AVK9	
Lift & Turn Tub Closure	Chrome-Plated Brass	2⅞"	1½-11-1/2 Coarse Thread	1.25	Watco	6AVL3	
Nufit® Lift & Turn Tub Closure	Brass	2⅞"	Silicone Adhesive	—	Watco	6AVL5	*
NuFit® Push Pull	Brass	2⅞"	Silicone Adhesive	—	Watco	6AVL6	*
Push Pull® Tub Closure	Chrome-Plated Brass	2⅞"	1⅜-16 Fine Thread	1	Watco	6AVL1	
Push Pull® Tub Closure	Chrome-Plated Brass	2⅞"	1⅜-16 Fine Thread	1.25	Watco	6AVK8	
Push Pull® Tub Closure	Chrome-Plated Brass	2⅞"	1½-11-1/2 Coarse Thread	1.25	Watco	6AVL2	
Push Pull® Tub Stopper	Chrome-Plated Brass	2"	⅜" & 5/16" Brass Pin	2	Watco	6AVK7	
Stopper & Drain, Push Pull®, ⅜ & 5/16" Combo Pins	Stainless Steel and Plastic	2⅞"	Pin Adapter	—	Watco	40L396	*
Stopper & Drain, Push Pull®, ⅜ & 5/16" Combo Pins & Grid Strainer	Plastic, Stainless Steel	2⅞"	Pin Adapter	—	Watco	40L397	*
Stopper & Drain, Push Pull®, w/1/4"-20 Pin	Plastic, Stainless Steel	2⅞"	Pin Adapter	—	Watco	40L398	*
Stopper & Drain, Push Pull®, w/10-24 Pin & Grid Strainer	Plastic, Stainless Steel	2⅞"	Pin Adapter	—	Watco	40L399	*
Stopper & Drain, Univ., Foot Actuated, w/10-24 Brass Pin Adapter	Plastic, Stainless Steel	2⅞"	Pin Adapter	—	Watco	40L405	*
Stopper & Drain, Univ., Foot Actuated, w/3/8 to 5/16" Combo Brass Pin Adapter	Plastic, Stainless Steel	2⅞"	Pin Adapter	—	Watco	40L404	*
Stopper & Drain, Univ., Foot Actuated, w/Grid Strainer	Plastic, Stainless Steel	2⅞"	Silicone Adhesive	—	Watco	40L402	*
Trip Lever Finish Kit w/Strainer	Chrome-Plated Brass	—	Screw	—	AB&A	38R070	
Trip Lever Linkage w/ out Overflow Plate	Brass	1 5/16"	—	—	Watco	6AVL9	
Waste & One Hole Overflow Half Kit	Sched 40 PVC	1½"	Solvent Weld	2½"	AB&A	38R068	*
Waste & Overflow Half Kit, Rough In Only	Sched 40 ABS	1½"	Solvent Weld	2½"	AB&A	38R072	*
Shower Drains							
Floor Drain Grid Drain cover	Stainless Steel	5"	Spring Like Prongs	—	GA	1PPE6	*
General Purpose Drain, Black Finish	ABS	2" or 3"	Solvent-Weld	—	Oatey	4FRU2	*
General Purpose Drain, White Finish	PVC	2" or 3"	Solvent-Weld	—	Oatey	4FRU1	*
General Purpose Drain, White Finish	PVC	3" or 4"	Solvent-Weld	—	Oatey	4FRU3	*
Shower Drain, PVC/ SS Finish	PVC	2" to 3"	Solvent	5½	GA	1RLV2	*
Shower Drain, Stainless Steel Finish	Plastic	2"	Compression	4½"	GA	1RLU7	*
Shower Drain, Stainless Steel Finish	Plastic	2"	Solvent-Weld	4½"	GA	1RLU9	*
Shower Drain, Stainless Steel Finish	ABS	2"	Solvent-Weld	4½"	GA	1RLV1	*
Shower Drain, White Finish	Plastic	2"	Compression	4½"	GA	1RLU6	‡
Shower Drain, White Finish	Plastic	2"	Solvent-Weld	4½"	GA	1RLU8	#
Shower Drain, White Finish	Stainless Steel	2"	Solvent-Weld	2"	Oatey	5KAV8	*
Shower Drain Grid	Stainless Steel	4½"	Snap-In	4½"	GA	1RLV6	*
Shower Drain Strainer	Zinc	1½"	Threaded	1½"	GA	1RLV5	*
Sink Drains							
Lavatory Flexible Pop Up Lift Rod Assembly	Plastic	1¼"	Slip	11½	GA	1PPD1	
	Steel	—	—	—	GA	1PPH9	
Sink Drain w/Stopper, Chain	Brass	1¼"	—	—	GA	489W12	
Sink Strainer, Heavy Duty	Stainless Steel	3½" to 4"	MNPT	4½	GA	38W328	
Stink Stopper Quad Close Trap Seal	Elastomeric	3"	—	—	JR Smith	24E549	

*Grid material: * = Stainless steel. † = Brass. ‡ = PVC. # = Plastic.*

Cast-Brass P.O. Plugs

ZURN

- 17-ga. cast-brass

Slip joint connection. Include cast-brass locknut and tailpiece. No. 4WDF4 includes cast-brass elbow.

Item	Includes	Pipe Dia. - Drains	L (in.)	Item No.
Pull Out Plug	Cast Brass Locknut and Tailpiece	1¼"	5	4WDF1
		1¼"	6	4WDF2
		1¼"	8	4WDF3
		1½"	6	4WDF7
Lavatory Strainer	Cast Brass Elbow	1¼"	8¾	4WDF4



No. 4WDF2

Premium Basket Strainers

ZURN

- Stainless steel basket and strainer.

Threaded connection. Extra-long shank.

Item	Pipe Dia. - Drains	L (in.)	Item No.
Basket Strainer L/TPC Long Shank	1½"	3½	4WDC5
Basket Strainer L/TPC Cant Skip Lock Nut	1½"	2 7/16	4WDC6



No. 4WDC5



Waste Connection No. 4WDG4



P-Trap No. 4WDE1



Sink Trap No. 4WDJ8



Threaded Tailpiece No. 4WDH3

Brass Tubular Drain Components, 17-Ga.

ZURN GRAINGER APPROVED

Description	Material of Construction	Connection	Pipe Dia. - Drains	L (in.)	Brand	Item No.
Extension Tube w/Nut	Brass	Slip	1¼"	12	Zurn	4WDK7
Extension Tube w/Nut	Brass	Slip	1½"	12	Zurn	4WDJ2
Female IPS Waste Connection	Cast Brass	Compression x IPS	1½" x 1½"	—	Zurn	4WDG4
J-Bend	Brass	Compression x Direct Connection	1½"	—	Zurn	4WDK6
Low Inlet P Trap	Zinc	Compression	1¼"	11"	Zurn	40D764
Low Inlet P Trap	Zinc	Compression	1½"	12¾	Zurn	40D765
P-Trap w/Cleanout	Cast Brass	Slip	1¼"	7½	Zurn	4WDE3
P-Trap w/Cleanout	Cast Brass	Slip	1¼"	8½	Zurn	4WDE1
P-Trap w/Cleanout	Cast Brass	Slip	1½"	7½	Zurn	4WDE6
P-Trap w/Cleanout and Brass Nuts	Cast Brass	Slip	1½"	9	Zurn	4WDE4
P-Trap w/Clenaout, Slip Nuts And Washer	Brass	Slip	1½"	11½	GA	1PNL3
P-Trap with Flange	Brass	Slip	1¼"		GA	444J28
Sink Trap, Meets Los Angeles Code Requirements	Brass	Slip x IPS	1½"	5¾	Zurn	4WDJ8
Sink Trap, Meets Washington DC Code Requirements	Brass	Slip x Sweat	1½" x 1¼"	7½	Zurn	4WDK1
Swivel Sink Trap for Copper w/Cleanout	Brass	Slip x Sweat	1½"	—	Zurn	4WDL4
Tailpiece, Straight Flanged	Brass	Flanged x Slip	1½"	6	Zurn	4WDH9
Tailpiece, Straight Flanged	Brass	Flanged x Slip	1½"	12	Zurn	4WDH7
Tailpiece, Threaded One End	Brass	MNPT x Slip	1¼"	8	Zurn	4WDH4
Tailpiece, Threaded One End	Brass	MNPT x Slip	1¼"	12	Zurn	4WDH3
Wall Bend	Cast Brass	Beaded x Slip	1¼"	8½	Zurn	4WDG9
Wall Bend	Cast Brass	Beaded x Slip	1¼"	15	Zurn	4WDG8
Wall Bend	Cast Brass	Beaded x Slip	1½"	15	Zurn	4WDH1
Waste Arm Slip Joint Connection	Brass	Slip	1½"	15	Zurn	4WDK9



Test-Tite, Pipe Plug, Plastic No. 3EJN7

Cleanout Repair Plugs

Oatey ZURN TEST-TITE

Hold as much as 50 ft. of backpressure. Test-Tite® models are for use in cast-iron fittings where threads have been damaged.

Nom. Size	Oatey, Cleanout Plug, Recessed Head, Brass Item No.	Oatey, Cleanout Plug, Brass Item No.	Zurn, Countersunk Cleanout Plug, ABS Item No.	Test-Tite, Pipe Plug, Plastic Item No.
1½"	3NWD1	3NWC4	4WDN1	—
2"	3NWD2	3NWC5	4WDN4	3EJN7
2½"	3NWD3	3NWC6	4WDN2	—
3"	3NWU8	3NWC7	4WDN5	3EJN8
3½"	3NWU9	3NWC8	4WDN3	3EJN9
4"	3NWX1	3NWC9	4WDN6	3EJP1



No. 32V288

Drain Sumps, Trench Pan Drain, and Trench Pans

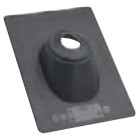
ZURN TUF-TITE

- Wheel load rating: Class C

Compatible with various pipe sizes including 4" dia pipe. Drain Sumps with Grate feature a universal snap-in pipe seal and a contoured bottom that directs all water to the drain to help eliminate standing water. For use in landscape or hardscape drainage and below downspouts. Trench Pan Drain and Trench Pans are for use in concrete, linear surfaces including driveways, floors, and truck docks.

Color	Material of Construction	W	L	D	Brand	Mfr. Model	Item No.
Floor Drain Grate							
—	Ductile Iron	5⅜"	20"	1⅜"	Zurn	P6-DGE	22F378
—	Ductile Iron	5⅜"	20"	⅞"	Zurn	P6-DGC	22F379
—	Polyethylene	5⅜"	20"	¾"	Zurn	P6-HPP	22F383
Silver	Stainless Steel	5⅜"	40"	1¼"	Zurn	P6-RFSC	33KL73
Silver	Stainless Steel	5⅜"	40"	¾"	Zurn	P6-RPSC	33KL74
Two Hole Drain Sump with Grate							
Black	Plastic	9"	14"	9"	Tuf-Tite	2HDS-2B	24WA14
Black	Plastic	9"	14"	9"	Tuf-Tite	2HDS-2G	24WA15
Black	Plastic	11"	11"	15½"	Tuf-Tite	2HDS-1B	24WA11
Black	Plastic	11"	11"	15½"	Tuf-Tite	2HDS-1G	24WA12
Black	Plastic	16"	16"	14½"	Tuf-Tite	2HDS-4B	24WA13

Color	Material of Construction	W	L	D	Brand	Mfr. Model	Item No.
Trench Pan Drainage System							
Gray	Plastic	4½"	36"	6"	Tuf-Tite	TPAN-36	32V287
Gray	Plastic	6¾"	36"	5"	Tuf-Tite	TR1-GRAY	32V288
Area Drain							
Black	Plastic	11"	11"	5"	Tuf-Tite	AD1	32V289
Grate							
Black	Plastic	16"	16"	2"	Tuf-Tite	B4-DG	32V304
Trench Pan							
Black	Plastic	6"	4½"	12"	Tuf-Tite	TPAN-12	32V290



No. 1VNH6



No. 4FRT9

Pipe Size (in.)	Mfr. Model	Brand	Item No.
Roof Flashing			
3	11910	Oatey	1VNH6
4	11911	Oatey	1VNH7

Size	Mfr. Model	Brand	Item No.
Roof and Flashing Sealant			
10.3 oz Cartridge	25403	Hercules	4FRT7
1 Quart Can	25405	Hercules	4FRT8
1 Gallon Can	25410	Hercules	4FRT9

Thermoplastic Roof Flashings and Sealant

OATEYSCS® Supply Chain Services HERCULES®

ROOF FLASHINGS

- Approved for Type B installations
- Accommodate a single vent pipe

No-caulk, slips over stack and under shingles for a watertight seal. For roof pitches up to 45°. Nonfading, noncracking thermoplastic base with rubber collar.

ROOF AND FLASHING SEALANT

Waterproof, will not separate, and requires no stirring. Apply to cold or wet surfaces; withstands the stress of dissimilar expansion rates. For concrete, roofing, metal, tile, and masonry.

JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies | ZURN

Floor Drains and Grates

Nickel-bronze floor drains are for use in kitchens, restrooms, and other foot traffic areas. No. 11U236 flashing collar drain body can be used for on-grade areas where a waterproofing membrane is required. The strainer can be adjusted up to 2" above from the top of the drain body.



No. 11U232



No. 11U229

Pipe Dia. - Drains	Connection	Material of Construction	Brand	Adjustable Floor Drain Strainer Item No.	Cleanout Cover Item No.	Sanitary Floor Drain Item No.
2"	No Hub	Cast Iron	JR Smith	—	—	38VC44
3"	MNPT	Nickel Bronze	JR Smith	11U245	—	—
3"	No Hub	Cast Iron	JR Smith	—	—	38VC45
4"	NPSM	Cast Iron	JR Smith	11U246	11U244	—
5⅜"	Screw	Nickel Bronze	JR Smith	—	24E559	—

Item	Pipe Dia. - Drains	Connection	Overall Dia.	L (in.)	Brand	Item No.
Round Commercial, Silver/Polished Nickel						
Adjustable Floor Drain Strainer	3¾"	IPS	5"	—	JR Smith	11U231
	3¾"	IPS	6"	—	JR Smith	11U232
Floor Drain Grate	—	Screw	4 11/16"	—	JR Smith	11U227
	—	Screw	5 19/32"	—	JR Smith	11U228
Round Strainer Grate, Bronze/Nickel						
Grid Strainer	3½"	—	—	6	Zurn	45NC91
Square Commercial, Silver/Polished Nickel						
Adjustable Floor Drain Strainer	3¾"	IPS	—	5	JR Smith	11U233
	3¾"	IPS	—	6	JR Smith	11U234
Floor Drain Grate	—	Screw	—	4⅜	JR Smith	11U229
	—	Screw	—	5 9/16	JR Smith	11U230
Square Strainer Grate, Bronze/Nickel						
Grid Strainer	3½"	—	—	5	Zurn	45NC90
	3½"	—	—	6	Zurn	45NC92

Item	Pipe Dia. - Drains	Overall Dia.	Connection	Material of Construction	Brand	Item No.
Floor Drain Body	3"	9"	No-Hub	Cast Iron	JR Smith	11U236
Cleanouts	4"	5⅛"	No Hub		Zurn	38UK39
Floor Cleanout	4"	5⅛"	No Hub		Zurn	38UK40

Item	Type	Material of Construction	Connection	Pipe Dia. - Drains	H (in.)	L (in.)	Brand	Item No.
Full Floor Drain Grate	—	Cast Iron	Drop In	—	½	8⅞	Zurn	22F398
Half Floor Drain Grate	—	Cast Iron	Drop In	—	½	8⅞	Zurn	22F401
Floor Grate	8" Dia.	Cast Iron	Drop In	—	—	8	Zurn	24X182
Floor Clean Out Cover	—	Bronze	Screw	5⅝"	⅜	—	Zurn	41J464
Grid Strainer	Round	Nickel	—	3½"	—	6	Zurn	45NC91
Grid Strainer	Square	Nickel	—	3½"	—	5	Zurn	45NC90
Grid Strainer	Square	Nickel	—	3½"	—	6	Zurn	45NC92

JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies | WATTS REGULATOR | ZURN

Roof Drains

Protect connected piping and drain sump from debris. For use on flat roofs.

JR Smith—Nos. 11U241 and 11U242 include flashing collar and mounting screws. No. 11U240 retrofits most existing roof drains to accept a Jay R. Smith dome.

Watts—No. 1WXC4 includes flashing clamps with integral gravel stop and self-locking poly dome.

Zurn—Nos. 22F375 and 22F376 include a combination membrane flashing clamp/gravel guard. Nos. 22F405 and 22F406 feature a a drop-in connection to ease installation.



No. 11U241



No. 11U238

Description	Color	Material	Connection	Brand	Item No.
Roof Drains w/Domes					
2 in Pipe Dia.	Yellow	Cast Iron	No Hub	JR Smith	11U241
3 in Pipe Dia.	Yellow	Cast Iron	No Hub	JR Smith	11U242
4 in Pipe Dia.	Blue	Cast Iron	No Hub	Watts	1WXC4
Roof Drain Domes					
4 ½ in" H, Cast Iron Grid	Blue	Cast Iron	Screw	Zurn	22F376
4 ½ in" H, Plastic Grid	Blue	Plastic	Screw	Zurn	22F375
Dome, 11⅛" Dia.	Black	Polyethylene	Clamp	JR Smith	11U239
Dome, 11⅛" Dia.	Yellow	Cast Iron	Clamp	JR Smith	11U238
Dome, 11 1/16" Dia.	Gray	Ductile Iron	Clamp	Watts	1WXC6
Dome, 12¼" Dia.	Gray	Plastic	Clamp	Watts	1WXC5
Roof Drain Collars					
Roof Drain Collar, Univ. Retrofit, 13⅝" Dia.	Yellow	Cast Iron	Screw	JR Smith	11U240
Drain Domes					
2 1/16 in" H, Aluminum Grid	Silver	Aluminum	Drop In	Zurn	22F405
2 1/16 in" H, Plastic Grid	White	Plastic	Drop In	Zurn	22F406

FIAT PRODUCTS | ELM

Laundry Tubs

Floor-mount sinks have heavy-gauge metal legs (Nos. 5NFL6 and 5NFL8 are white enamel) with adjustable levelers. Wall-mount models have heavy-gauge steel mounting bracket and hardware. Go to Grainger.com® for the included accessories and the standards/specifications for each item.



No. 5NFL8

With Faucet / Without Faucet	Mounting Type	Overall Dim. L	W	H	Bowl Size	Bowl Depth	Drain Opening	Brand	Mfr. Model	Item No.
Laundry Tub										
Without Faucet	Floor	24"	20"	34"	20⅛" x 17¾"	13⅜"	2"	Fiat	FL7100	5NFL6
	Floor	24"	40"	34"	24" x 20"	14⅜"	1½"	Mustee	27F	4ARZ3
	Wall	24"	20"	13⅜"	20⅛" x 17¾"	13⅜"	2"	Fiat	L7100	5NFL7
	Wall	24"	20"	34"	24" x 20"	14⅜"	1½"	Mustee	19W	4ARZ2
	Wall	24"	40"	34"	20" x 20"	14⅜"	1½"	Mustee	27W	4ARZ4
With Faucet	Wall	24"	20"	13⅜"	20⅛" x 17¾"	13⅜"	2"	Fiat	L7TG100	5NFL9
Laundry Tub Kit										
With Faucet	Floor	24"	20"	34"	20⅛" x 17¾"	13⅜"	2"	Fiat	FL7TG100	5NFL8
Utility Sink										
Without Faucet	Drop-In	22"	25"	13¾"	21⅜" x 15¾"	13¼"	1½"	Mustee	10	4ARZ6
	Floor	24"	20"	34"	24" x 20"	13"	1½"	Mustee	19F	1RLN7
With Faucet	Floor	24"	20"	34"	24" x 20"	13"	1½"	Mustee	19CF	1RLN8



No. 49T917



No. 4AYG6

ORION® | Just



No. 13G619

Laboratory Sinks

- Drain opening: 1½" NPT

ORION®

Easy-to-install and clean sinks are constructed of virgin polyethylene and resist intense chemical environments. Integral flange permits either above- or below-counter mounting. Gray color. Meet ASTM D1248 (except cup sinks).

DURA-WARE

Wall mount design with seamless welded construction and deck with an integral self-draining soap dish. Satin finish. No. 49T917 includes a faucet.

Description	Item No.
ORION® Waste Assemblies for Orion Laboratory Sinks	
Lab Sink Overflow, Slip	4AYH8
Waste Assembly, 1½" IPS, 4 7/32"L	4AYJ7
Waste Assembly, 1½" IPS, 4 15/64"L	4AYJ6
Waste Assembly, 1½" IPS, 4 19/32"L	4AYJ9

Overall Dim. L	W	H	Bowl Size	Bowl Depth	Mfr. Model	Item No.
DURA-WARE, Lavatory Sink, Stainless Steel						
18 in	15 in	7 in	14 ½ in x 9 ½ in	6 in	1950-1-CSS	49T917
18 in	22 in	8 in	14 ½ in x 12 in	5 in	1953-1-09-GT-H34	49T916
ORION®, Laboratory Sink, Corrosion Resistant Polyethylene (Rear Corner Waste Assembly)						
14 ½ in	14 ½ in	11 in	12 in x 12 in	8 in	ARLS 11	4AYG6
18 ½ in	18 ½ in	11 in	16 in x 16 in	8 in	ARLS 13	4AYG8
20 ½ in	17 ½ in	15 in	15 in x 18 in	12 in	ARLS 15	4AYH1
23 ½ in	20 ½ in	12 in	18 in x 21 in	10 in	ARLS16	4AYH2
25 ½ in	20 ½ in	14 ¼ in	18 in x 23 in	12 in	ARLS 17	4AYH3
27 ½ in	17 ½ in	13 in	15 in x 25 in	10 in	ARLS 18	4AYH4
ORION®, Laboratory Sink, Corrosion Resistant Polyethylene, ADA-Compliant (Rear Corner Waste Assembly)						
20 ¼ in	17 ½ in	15 in	15 in x 18 in	6 in	ARLS15ADA	4AYH7
ORION®, Laboratory Cup Sink, Polyethylene (Center Waste Assembly)						
6 in	6 in	3 in	5 in x 5 in	3 in	CS3 6X3	4AYJ5
6 in	6 in	3 ¾ in	4 15/16 in x 4 15/16 in	3 ¾ in	CS7 6X TAPER	4AYJ4
7 in	3 ⅞ in	6 ⅞ in	6 in x 3 in	4 in	CS1-6x3x4	4AYJ2
Just®, Drop-In Sink with Faucet Ledge, Satin Blend						
21 in	19 in	7 ½ in	18 in x 14 in	7 ½ in	SL-1921-A-GR-3-316	13G619
22 in	22 in	7 ½ in	19 in x 16 in	7 ½ in	SL-2222-A-GR-3-316	13G620
25 in	22 in	7 ½ in	22 in x 16 in	7 ½ in	SL-2225-A-GR-3-316	13G621

Lavatory Systems and Decks

Chemical-, stain-, burn-, and impact-resistant solid Terreon® surface is easily repaired.

Terreon® RE—Wall-hung decks with 5½" deep bowls are recycled Terreon RE solid surface material (25% preconsumer recycled content and 8% rapidly renewable material). Include mounting bracket, attached 3" coved backsplash, and 3" integral front and side aprons.

- **Single-hole faucet mounting**

Terreon® SafeCare™—Ligature-resistant design with the molded sprayhead securely attached and flush to the lavatory bowl to reduce ligature points.

Terreon® ELX Series —Lavatory systems include electronic faucets, soap dispensers, and feature a personal space design, plus an innovative mounting plate to ease installation in retrofit or new construction. Seamless bowl design helps reduce mold and delamination.

Frequency®—Multi-height fixture is accessible by adults, children, and those with disabilities. Include battery-operated faucet.

- ½" nominal supply and 1½" drain connections
- Flow rate: 0.5 gpm

Terreon® MG-Series—A free-spinning collar helps protect aerator from vandalism. The infrared sensor shuts off water flow after 30 to 45 sec. if user attempts to trigger constant operation by covering the sensor.



No. 3FLZ7

People Served	Color	Operation Type	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Terreon® RE Lavatory Decks							
1	Moondust	—	30	22	6	S45-2458	**3FLZ1**
2	Oat		60		6	S45-2459	**3FLZ2**
	Moondust				6	S45-2460	**3FLZ3**
3	Moondust		90		6	S45-2462	**3FLZ5**
Terreon® SafeCare™							
1	Sand	Infrared	32	31	26	S93-725	**46KK21**
	Sand	Battery Infrared			26	S93-726	**46KK22**
	White Sand	Infrared			26	S93-727	**46KK23**
	White Sand	Battery Infrared			26	S93-728	**46KK24**
Express SS Series Lavatory Systems							
2	Empire Gray	Infrared	63¼	27½	41	S93-723	**46KK19**
3	Empire Gray		92		41	S93-724	**46KK20**

No. of Stations	Color	Bowl Size	L	W	H	Item No.
Terreon® ELX						
2	Gray	55" x 21⅝"	30"	66"	27"	**48NU32**
	Sand	55" x 21⅝"	30"	66"	27"	**48NU31**
	White	55" x 21⅝"	30"	66"	27"	**48NU30**
3	Gray	85" x 21⅝"	94"	30"	27"	**48NU35**
	Sand	85" x 21⅝"	94"	30"	27"	**48NU34**
	White	85" x 21⅝"	94"	30"	27"	**48NU33**

Description	Mfr. Model	Item No.
Repair Parts for SS Series Lavatory Systems		
Solenoid Valve, 24VAC, Closed Body	S07-067S	**3FMA5**
Solenoid Valve, 24VAC, Through body	S07-067AS	**3FMA6**
Sensor/Adaptive Short 6.5" Lead	269-1608HP	**3FMA9**
Window Express Assembly	269-1241	**3FMC6**
Transformer Assembly	S83-152	**3FMC8**
Aerator Assembly	S05-180	**3FMC3**

Type	People Served	Color	Operation Type	L (in.)	W (in.)	H (in.)	Item No.
Frequency® Lavatory Systems							
High On Left	2	Riverstone	Capacitive Sensing	62.75	29	17	**3FLZ7**
High On Left And Right	3	Riverstone	Capacitive Sensing	92.88	29	17	**3FLZ9**

People Served	Color	Operation Type	Basin Depth (in.)	Basin Height (in.)	L (In.)	W (in.)	H (in.)	Item No.
Terreon® MG-Series								
2	Empire	Infrared	22	4	54	22	9½	**20HP03**
3	Gray	Sensor	22	4	84	22	9½	**20HP04**

Washfountains

- 1" supply and 2" drain connections, except Shallow Bowl models have ½" supply and 1½" drain connections
- Flow rate: 1.25 to 5 gpm, except Shallow Bowl models are 0.5 gpm
- Working pressure: 20 to 80 psi

Low-water consumption fountains come with 1 set of water supplies and 1 valve set for easy installation and cleanup. Liquid soap dispenser also included. UPC® Certified.

Drain type A is an off-line vent with water supplies from below. Drain type B has central rising vent and water supplies from above.



No. 4DU59

Bradstone®—Thermoset polyester bowl has durable stainless steel scuff base and standard foot control.

Stainless Steel—Polished to a satin finish, with a pedestal scuff base and standard foot control.

Stainless Steel Shallow Bowl—Washfountains have individually activated sprayheads. ADA-compliant, except for Foot Control model.

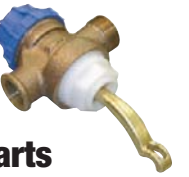
Terreon® Deep Bowl—ADA-compliant fixtures have chemical-, stain-, burn-, and impact-resistant solid surfaces. NAHB-approved materials and hands-free infrared control mechanism.

Overall Width/ Description	Basin Height (in.)	People Served	Overall H (in.)	Bradstone®, Carbon Color Drain Type A Item No.	Bradstone®, Carbon Color Drain Type B Item No.	Bradstone®, Sandbox Color Drain Type A Item No.	Bradstone®, Sandbox Color Drain Type B Item No.
36" Circular	29½	5	42½	**1MEV3**	**1MEV4**	**4DU55**	**4DU56**
36" Semicircular	28	3	50¾	—	—	—	**4DU52**
36" Semicircular	29½	3	42½	**1MEU8**	**1MEU9**	**4DU51**	—
54" Circular	29½	8	46	**1MEV5**	—	—	—
54" Circular	29½	8	46¼	—	**1MEV6**	**4DU57**	**4DU58**
54" Semicircular	29½	4	46¼	**1MEV1**	**1MEV2**	**4DU53**	**4DU54**

Overall Width/ Description	People Served	Overall H (in.)	Stainless Steel, Shallow Bowl Basin Height 34" Drain Type A Item No.	Stainless Steel, Shallow Bowl Basin Height 34" Drain Type B Item No.
Foot Control Hold-Open Air Valve				
25¼" Semicircular	4	43½	**3FLV8**	—
Hand Control Metering Air Valve				
25¼" Semicircular	3	43½	**3FLX6**	**3FLX7**
Infrared Sensor				
25¼" Semicircular	3	43½	**3FLV6**	**3FLV7**
25¼" Semicircular	4	43½	**3FLW1**	**3FLW2**

Overall Width/ Description	People Served	Overall H (in.)	Stainless Steel, Polished, Basin Height 28" Drain Type A Item No.	Stainless Steel, Polished, Basin Height 28" Drain Type B Item No.
36" Semicircular	5	45⅞	**4DU63**	**4DU64**
36" Semicircular	3	42⅜	**4DU59**	**4DU60**
54" Circular	8	45⅞	**4DU65**	**4DU66**
54" Semicircular	4	42⅜	**4DU61**	**4DU62**

Overall Width/ Description	People Served	Overall H (in.)	Terreon® Deep Bowl, Empire Gray, Basin Height 34" Drain Type A Item No.	Terreon® Deep Bowl, Empire Gray, Basin Height 34" Drain Type B Item No.
36" Semicircular	3	53¼	**2YB10**	—
54" Semicircular	4	55¾	**2YB11**	**2YB12**



No. 2NY93

Washfountain Replacement Parts

Mfr. Model	Description	Item No.
Replacement Parts for All Washfountains		
S09-010A	Powdered Soap Valve	**2NY95**
S09-007S	Liquid Soap Valve Repair Kit	**2NY94**
S10-004	Soap Filler Hole Cap	**2NY96**
S45-051	Sprayhead Repair Kit	**2NY99**
Replacement Parts for Bradstone® and Stainless Steel Washfountains		
110-005	Tail Piece Nut	**2NY75**
124-001AF	Tail Piece Washer, Fiber	**2NY76**
129-009	Foot Valve Tail Piece	**2NY82**
129-007	Unplated Tail Piece	**2NY81**
135-001W	Foot Lever Spring for 54" Bowl	**2NY83**
143-027	Foot Lever for 36" Bowl Wash Fountains	**2NY85**
143-025	Foot Lever	**2NY84**
152-026	Foot Lever Pivot Pin	**2NY86**
159-019	Operating Cross	**2NY87**
193-002	Washfountain Leg for Standard Height Stainless Steel Models	**3FMD1**
S01-525S	Vernatherm™ Valve, Incl. Valve, Tailpieces, Nuts, Washers	**2NY89**
S01-038S	Manual Mixing Valve, Incl. Valve, Tailpieces, Nuts, Washers	**2NY88**
S02-045	Volume Control Valve	**2NY90**
S07-066	Foot Valve Assembly	**2NY93**
S14-007	Operating Rod Assembly	**2NY97**
S45-198	Volume Control Valve Repair kit	**2PA11**
S45-197	Manual Mixing Valve Repair Kit	**2PA10**
S45-050	Stop Strainer, Check Valve Repair kit	**2NY98**
S60-003	Stop Strainer, Check Valve Kit	**2PA12**
S65-230	Foot Valve Repair Kit	**2PA13**
S65-001A	Repair Kit	**3FMD3**
Replacement Parts for Bradstone® Washfountains		
125-011	Support Tube Gasket	**2NY80**
Replacement Parts for Circular Models Only		
124-020C	Sprayhead Grommet	**2NY77**
S05-054	Sprayhead Assembly	**2NY91**
Replacement Parts for Semicircular Models Only		
124-020D	Sprayhead Grommet	**2NY78**
S05-054B	Sprayhead Assembly	**2NY92**
Replacement Parts for Stainless Steel Washfountains		
125-008	Support Tube Gasket	**2NY79**



Quadra-Fount™

Multi-Fount™ Washfountain

- ½" nominal supplies and 1½" drain connections
- Flow rate: 0.5 gpm
- Working pressure: 20 to 80 psi

Accommodate multiple users in the space of a single-head sink; spray heads are individually controlled by separate infrared sensors. Solid Terreon® surface is chemical-, stain-, burn-, and impact-resistant; easily repaired. Empire gray color. With 304 stainless steel pedestal frame and access panels. 24VAC. ADA compliant; UPC Certified. Meet GREENGUARD Certification for indoor air quality.

People Served	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Item No.
Washfountain				
4	46	26	40	**1MEV8**

Item	Mfr. Model	Item No.
Repair Parts		
Closed Body Solenoid Valve, 24VAC	S07-068S	**3FMA3**
Through Body Solenoid Valve, 24VAC	S07-068AS	**3FMA4**
Sensor/Adaptive	269-1608	**3FMC1**
Window-IR Sensor	269-1190	**3FMC7**
Replacement Part for Terrazzo Multi-Fonts		
Repair Kit	S65-084	**3FMD4**

American Standard | Whitehall | BestCare

White Vitreous China Lavatory Sinks

- 1¼" drain opening, except No. 38C427 is 1⁵⁄₁₆"
- No. 38C427 includes faucet

Description	ADA Compliant	Faucet Mounting Centers	Overall Dim. L	W	H	Bowl Size	Brand	Back Splash	Mfr. Model	Item No.
Counter Top Mount (Includes Cut-Out Template)										
Aqualyn®	Yes	4"	17⅜"	20⅜"	7⅜"	16" x 10"	Amer. Std.	No	0476028.020	**1VNW8**
Rondalyn®	Yes	4"	19⅛"	19⅛"	7 13⁄16"	15" x 12⅛"	Amer. Std.	No	0491019.020	**1VNW7**
Undermount Mount (Includes Cut-Out Template and Mounting Kit)										
Ovalyn™	Yes	—	16¼"	19¼"	7⅜16"	17" x 14"	Amer. Std.	No	0496221.020	**1VNW5**
Ovalyn™	Yes	—	17⅜"	21½"	7½"	19" x 15⅜"	Amer. Std.	No	0497221.020	**1VNW6**
Wall Mount (Includes Wall Hanger)										
BESTCare®	Yes	4"	20"	21¾"	34"	15"	Bestcare	Yes	WH3775--3373	**38C427**
Declyn™	No	4"	17"	18½"	10"	14¼" x 10¾"	Amer. Std.	No	0321026.020	**2NJL9**
Declyn™	No	—	17"	18½"	10"	14¼" x 10¾"	Amer. Std.	No	0321075.020	**45W821**
Decorum™	Yes	—	18¼"	20"	7"	13 15⁄16" x 12 13⁄16"	Amer. Std.	No	9024000EC.020	**49JM60**
Lucerne™	Yes	4"	18¼"	20½"	12⅛"	15" x 10"	Amer. Std.	4"	0355012.020	**1VNW3**
Lucerne™	Yes	8"	18¼"	20½"	12⅛"	15" x 10"	Amer. Std.	4"	0356015.020	**1VNW4**



No. 1VNW3

Stainless Steel Washfountains

- ½" supply connection
- Flow rate: 0.5 gpm
- Working pressure: 30 to 120 psi

For heavy-duty use in commercial and industrial applications. Have 1 waste connection and 1 pressure balancing mixing valve. Preassembled and tested to help save installation time. Infrared sensor models are hard-wired.

Acorn Est. 1954

Description	People Served	Connec. Drain (in.)	Drain Type	Overall Length (in.)	Basin Height (in.)	Basin Depth (in.)	Foot Pushbutton Mfr Model	Foot Pushbutton Item No.	Infrared Sensor Mfr Model	Infrared Sensor Item No.
Elliptical	2	1½	Wall Outlet	27¾	34	4½	3402-2-F-VPB-MXTP	**10A312**	3402-2-SO-VPB-MXTP	**10A313**
Corner	3	1½	Wall Outlet	37	34	6¾	3563-2-F-DV-VPB-MXTP	**10A314**	3563-2-SO-DV-VPB-MXTP	**10A315**
Semicircular	3	1½	Wall Outlet	38	34	5¾	3543-2-F-DV-VPB-MXTP	**10A316**	3543-2-SO-DV-VPB-MXTP	**10A317**
	3	1½	Wall Outlet	38	34	5¾	—	—	3423-ADA-1-SO-DV-VPB-MXTP	**10A324**
	4	1½	Wall Outlet	38	34	5¾	3544-2-F-DV-VPB-MXTP	**10A318**	3424-ADA-1-SO-DV-VPB-MXTP	**10A325**
	4	1½	Wall Outlet	38	34	5¾	—	—	3544-2-SO-DV-VPB-MXTP	**10A319**
Circular	6	2	Floor Outlet	38¼	34	6¾	3506-3-F-BO-DV-VPB-MXTP	**10A320**	3506-3-SO-BO-DV-VPB-MXTP	**10A321**
	8	2	Floor Outlet	54	34	6¾	3508-3-F-BO-DV-VPB-MXTP	**10A322**	3508-3-SO-BO-DV-VPB-MXTP	**10A323**


No. 10A316

Acorn Washfountain Replacement Parts

Acorn Est. 1954

Mfr. Model	Description	Item No.	Pkg. Qty.
0316-018-000	Tinnerman Nut	**19C766**	1
1451-010-001	Soap Dispenser Assembly	**19C768**	1
2562-373-001	Eye Sensor Assembly, 9V	**19C771**	1
2562-335-000	Electronic Eye Sensor, 24VAC	**19C770**	1
2563-326-001	Latching Solenoid, 9V	**19C772**	1
2563-305-001	Solenoid Assembly, 24VAC	**19C807**	1
2563-008-001	Orifice Plate Spring	**19C793**	10
2566-025-001	Air Control Push Button Assembly	**19C796**	1

Mfr. Model	Description	Item No.	Pkg. Qty.
2566-022-000	Air Control Push Button	**19C795**	1
2566-010-001	Foot Button Assembly	**19C773**	1
2998-212-001	Nozzle Assembly, 20° Up-Down Elbow	**19C810**	1
2998-200-001	Nozzle Assembly, Straight	**19C809**	1
2998-017-000	Vandal Resistant Spray Nozzle, Female	**19C776**	1
2998-016-000	Vandal Resistant Spray Nozzle, Male	**19C775**	1
ST70-12	Tempering Valve	**30VX83**	1

White Vitreous China Lavatory Sink Packages

ZURN

- 1¼" drain opening
- ADA compliant

Complete, ready-to-install wall mount lavatory sink packages help reduce installation time in hospitality and other commercial applications. Nos. 10J136 and 10J138 have vandal-resistant handles. No. 10J137 has a vandal-resistant aerator. All meet ANSI A117.1.


No. 10J133

Faucet Operation	Faucet Mounting Centers	Overall Dim L	W	H	Bowl Shape	Bowl Size	Bowl Depth	Back Splash	Includes	Item No.
Dual Manual Handle	4 in	20 in	18 ¼ in	10 in	D-Shape	16 ½ in x 10 ¼ in	6 ⅜ in	2½ in	Wall Hanger, Z812B4-XI, Widespread, Polished Chrome Gooseneck Faucet, Grid Drain, Cast Trap and ADA Trap Wrap	**10J134**
	4 in	20 in	18 ¼ in	10 in	D-Shape	16 ½ in x 10 ¼ in	6 ⅜ in	2½ in	Wall Hanger, Z81101-XI Polished Chrome (2) Handle Manual Faucet, Grid Drain and Cast Trap	**10J138**
	8 in	19 ½ in	17 ⅛ in	7 in	Oval	15 ¼ in x 10 ¾ in	7 in	1 in	Wall Hanger, Z831B4-XI, Widespread, Polished Chrome Gooseneck Faucet, Grid Drain and Cast Trap	**10J136**
Sensor	4 in	19 ½ in	17 ⅛ in	7 in	D-Shape	15 ¼ in x 10 ¾ in	7 in	1 in	Wall Hanger, Z6915-XI Polished Chrome Battery Powered, Grid Drain and Cast Trap	**10J137**
Single Manual Handle	4 in	19 ½ in	17 ⅛ in	7 in	Oval	15 ¼ in x 10 ¾ in	7 in	1 in	Wall Hanger, Z7400-XI Single Handle Polished Chrome Faucet, Grid Drain and Cast Trap	**10J133**

Low-Lead 304 Stainless Steel Washstations and Scrub Sinks

SANI-LAV Supplier Diversity

Washstations are constructed of 16-ga. and scrub sinks of 14-ga. 304 stainless steel and include 10" and 9" backsplash, basket strainer, and connecting tube and fittings. Electronic models have an AC- or battery-powered sensor to activate water flow and a mixing check valve. Go to Grainger.com® for additional models with 0.5 gpm or other flow rate, and with included faucet. Certified NSF 2 for food equipment and NSF/ANSI 372, except Nos. 36LH82 to 36LH91 are NSF only.

No. of Stations	Overall Length	Overall Width	Bowl Depth	Drain Opening	Single Valve-Activated Faucet Item No.	Double Valve-Activated Faucet Item No.	Manual Faucet Item No.	Electronic Faucet—AC Powered Item No.	Electronic Faucet—Battery Powered Item No.	Without Faucet Item No.
Wash Station, Floor Mount										
2	40 in	20 in	8 in	2 in	**23PH37**	**40D723**	**40D724**	**40D725**	**40D726**	**5LYA2**
3	60 in	20 in	8 in	2 in	**23PH38**	**40D731**	**40D732**	**40D733**	**40D734**	**5LYA3**
4	80 in	20 in	8 in	2 in	**23PH39**	**40D739**	**40D740**	**40D741**	**40D742**	**5LYA4**
5	100 in	20 in	8 in	2 in	**28DV86**	**28DV87**	**28DV88**	**28DV89**	**28DV90**	**46CF12**
6	120 in	20 in	8 in	2 in	**23PH40**	**40D747**	**40D748**	**4TAH6**	**40D750**	**5LYA5**
Wash Station, Wall Mount										
2	40 in	20 in	8 in	2 in	**23PH41**	**40D727**	**40D728**	**40D729**	**40D730**	**5LYA6**
3	60 in	20 in	8 in	2 in	**23PH42**	**40D735**	**40D736**	**40D737**	**40D738**	**5LYA7**
4	80 in	20 in	8 in	2 in	**23PH43**	**40D743**	**40D744**	**40D745**	**40D746**	**5LYA8**
5	100 in	20 in	8 in	2 in	**28DV81**	**28DV82**	**28DV83**	**28DV84**	**28DV85**	**46CF11**
6	120 in	20 in	8 in	2 in	**23PH44**	**40D751**	**40D752**	**40D753**	**40D754**	**5LYA9**
Wash Station, Wall Mount, ADA Compliant										
1	30 in	20 in	5 in	2 in	—	—	**48PY08**	**48PY06**	**48PY07**	**48PY10**
2	48 in	20 in	5 in	2 in	—	—	**46CF13**	**28DV73**	**28DV74**	**46CF15**
3	68 in	20 in	5 in	2 in	—	—	**46CF14**	**36LH80**	—	**46CF16**
Scrub Sink, Floor Mount										
1	25 in	20 in	10 ½ in	3 ½ in	**36LH82**	**36LH83**	**36LH84**	**36LH85**	**36LH86**	**46CF17**
1	31 in	20 in	10 ½ in	3 ½ in	**36LH87**	**36LH88**	**36LH89**	**36LH90**	**36LH91**	**46CF18**
Scrub Sink, Wall Mount										
1	25 in	20 in	10 ½ in	3 ½ in	—	—	**28DV77**	**28DV75**	**28DV76**	**46CF19**
1	31 in	20 in	10 ½ in	3 ½ in	—	—	**28DV80**	**28DV78**	**28DV79**	**46CF20**


No. 23PH37

Description	Mfr. Model	Item No.
Valves & Replacement Parts		
Single Knee Pedal Valve	112L	**40D763**
Double Knee Pedal Valve	111L	**40D758**
Double Foot Pedal Valve	105L	**40D759**
OEM Floor mounted Double Foot Pedal Valve	101L	**40D762**
Mixing Check Valve, 4¼"W x 2¾"H	201L	**40D761**
Replacement Kit for all Sani-Lav Valves	1061L	**40D760**
Splash Mount Swivel Spout, Splash Mount 12"H	2003L	**40D755**
Duo Basket Strainer	1010	**5WNH6**
Liquid Soap Dispenser, 32 oz.	568	**5WNH8**
Cold Faucet Valve Repair Kit	1062-CL	**40D756**
Hot Faucet Valve Repair Kit	1062-HL	**40D757**
Single Foot Operated Valve for SANI-LAV Floor Mount Sinks	106L	**46CF07**
Strainer Assembly for Most Industrial Scrub Sinks	1011	**46CF21**


No. 48PY28


No. 40D701


No. 40D692


No. 40D694

SANI-LAV Low-Lead Stainless Steel Handwashing Sinks

- 2" drain opening

Hands-free, 1-station sinks reduce the threat of cross-contamination and feature a corrosion-resistant, electropolished finish that enhances cleanliness. Include connecting tube and fittings, and strainer with basket. Single Valve models come with a mixing check valve. Wall Mount models include a wall-mounting bracket. Electronic models have an AC- or battery-powered sensor to activate water flow and include a mixing check valve. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Side Splash	Overall Length	Overall Width	Overall Height	Bowl Size	Bowl Depth	Single Valve-Activated Faucet Item No.	Double Valve-Activated Faucet Item No.	Manual Faucet Item No.	Electronic Faucet—AC Powered Item No.	Electronic Faucet—Battery Powered Item No.	Without Faucet Item No.
Floor Mount											
No	19 in	18 in	41 ½ in	17 in x 14 in	7 in	**23PH34**	**40D701**	**40D702**	**40D703**	**40D704**	**5LYA0**
	21 in	20 in	41 ½ in	19 in x 16 in	10 in	**23PH36**	**40D713**	**40D714**	**40D715**	**46CF08**	**5LYA1**
	23 in	20 ½ in	46 ½ in	20 in x 17 in	9 in	**48PY28**	**48PY29**	**48PY30**	**48PY31**	**48PY32**	**48PY33**
Yes	19 in	18 in	41 ½ in	17 in x 14 in	7 in	**23PH35**	**40D705**	**40D706**	**40D707**	**40D708**	**5LYC0**
Wall Mount											
No	16 in	15 ½ in	13 in	14 in x 11 in	5 in	**40D716**	**46CF09**	**40D717**	**40D718**	**40D719**	**18D857**
	19 in	16 in	15 in	16 in x 12 ½ in	6 in	**48PY35**	**48PY36**	**48PY37**	**48PY38**	**48PY39**	**48PY40**
	19 in	18 in	16 ½ in	17 in x 14 in	7 in	**23PH31**	**40D692**	**40D693**	**40D694**	**40D695**	**5LXZ7**
	21 in	20 in	19 ½ in	19 in x 16 in	10 in	**23PH33**	**40D709**	**40D710**	**40D711**	**40D712**	**5LXZ9**
	22 in	19 in	14 in	19 in x 15 ½ in	5 in	—	—	**48PY42**	**48PY43**	**48PY44**	—
	23 in	20 ½ in	19 ½ in	20 in x 17 in	9 in	**48PY21**	**48PY22**	**48PY23**	**48PY24**	**48PY25**	**48PY26**
Yes	16 in	15 ½ in	13 in	14 in x 11 in	5 in	**40D720**	**46CF10**	—	**40D721**	**40D722**	—
	19 in	18 in	16 ½ in	17 in x 14 in	7 in	**23PH32**	**40D696**	**40D697**	**40D698**	**40D699**	**5LXZ8**

Description	Item No.
Valves & Replacement Parts	
Double Knee Pedal Valve	**40D758**
Single Knee Pedal Valve	**40D763**
Double Foot Pedal Valve	**40D759**
OEM Floor mounted Double Foot Pedal Valve	**40D762**
Mixing Check Valve, 4¼"W x 2¾"H	**40D761**
Replacement Kit for all Sani-Lav Valves	**40D760**
Splash Mount Swivel Spout, Splash Mount 12"H	**40D755**
Duo Basket Strainer	**5WNH6**
Liquid Soap Dispenser	**5WNH7**
Cold Faucet Valve Repair Kit	**40D756**
Hot Faucet Valve Repair Kit	**40D757**
Single Foot Operated Valve for SANI-LAV Floor Mount Sinks	**46CF07**
Strainer Assembly for Most Industrial Scrub Sinks	**46CF21**


No. 13G651


No. 4AVG6


No. 11U397

Stainless Steel Handwashing Sinks

- NSF Listed, except Nos. 13G652 and 13G651

All-welded, heavy-gauge, wall mount sinks have deep-drawn bowls and include faucet.

Description	Drain Opening	Overall Length	Overall Width	Overall Height	Bowl Size	Bowl Depth	Back Splash Height	Brand	Mfr. Model	Item No.
Corner Bathroom Sink										
Sensor Faucet, Mixing Valve, & Drain	2"	12¾"	12¾"	9"	10"-dia	5"	4"	Just	A-35929-S	**13G651**
Single Handle Faucet, Drain	2"	12¾"	12¾"	9"	10"-dia	5"	4"	Just	A-35929-T	**13G652**
Hand Sink										
ADA Compliant	1½"	19"	24"	16½"	14" x 16"	6"	8¼"	Eagle Group	HSAP-14-FW-IF1	**4NNH3**
ADA Compliant, Electronic Faucet, Deck Mount Liquid Soap Dispenser	2"	20"	24"	13"	14" x 16"	5"	7¾"	Adv. Tabco	7-PS-26	**11U387**
Deck Mount Lever Handle Faucet	3½"	17¼"	17¼"	13"	10" x 14"	5"	7¾"	Adv. Tabco	7-PS-20	**11U391**
Dual 12" Splash Guards, Lever Operated Drain, Removable Utility Shelf, Lever Handle Faucet	3½"	17¼"	15¼"	17"	10" x 14"	5"	12"	Adv. Tabco	7-PS-76	**11U388**
Dual Splash Guards	1½"	12"	18"	14¼"	13½" x 9¾"	6¾"	6"	Eagle Group	HSAN-10-F-LRS	**11U261**
Dual Splash Guards, Lever Handle Faucet	1½"	18⅞"	14¾"	16"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-F-IF1-LRS	**4AVG6**
Dual Splash Guards, Lever Handle Faucet	3½"	17¼"	15¼"	13"	10" x 14"	5"	7¾"	Adv. Tabco	7-PS-66	**11U398**
Dual Splash Guards, Lever Operated Drain, C-Fold Paper Towel & Soap Dispenser, Lever Handle Faucet	3½"	17¼"	15¼"	26½"	10" x 14"	5"	21½"	Adv. Tabco	7-PS-87	**11U384**
Dual Splash Guards, Lever Operated Drain, Lever Handle Faucet	3½"	17¼"	15¼"	13"	10" x 14"	5"	8"	Adv. Tabco	7-PS-40	**8AX66**
Dual Splash Guards, Wristblade Handle Faucet	1½"	18⅞"	14¾"	14¼"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-FW-LRS	**4AVG9**
Electronic Eye Faucet	1½"	18⅞"	14¾"	16"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-FE	**1XUD2**
Electronic Faucet, Towl Dispenser, Liquid Soap Dispenser	3½"	17¼"	15¼"	26½"	10" x 14"	5"	21½"	Adv. Tabco	7-PS-81	**11U386**
Knee Activated Valve Faucet, Apron	1½"	14¾"	18⅞"	12¾"	13½" x 9¾"	6¾"	3⅞"	Eagle Group	HSA-10-FKP	**11U262**
Knee Activated Valve Faucet, Apron	3½"	21¼"	17¼"	17¼"	14" x 16"	6"	7¾"	Adv. Tabco	7-PS-30	**11U385**
Lever Handle Faucet	1½"	17¼"	15¼"	13"	10" x 14"	5"	7¾"	Adv. Tabco	7-PS-60	**11U397**
Lever Handle Faucet	1½"	18⅞"	14¾"	14¼"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-F-IF1	**4NNH2**
Lever Operated Drain, Lever Handle Faucet	3½"	17¼"	15¼"	13"	10" x 14"	5"	8"	Adv. Tabco	7-PS-50	**3LMR4**
Soap Dispenser	1½"	24⅝"	23"	16"	19¾" x 15¾"	8⅞"	7½"	Eagle Group	W1916-FA	**4NNH5**
Space Saver Sink	1½"	12"	18"	14¼"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSAN-10-F	**4AVG7**
Space Saver Sink	3½"	16"	12"	13"	9" x 9"	5"	8"	Adv. Tabco	7-PS-23	**3LMR5**
Tubular Wall Support	1½"	18⅞"	14¾"	14¼"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-FTWS	**4AVH1**
Wristblade Handle Faucet	1½"	18⅞"	14¾"	14¼"	13½" x 9¾"	6¾"	7½"	Eagle Group	HSA-10-FW	**4AVG8**
Hand Sink/Eye Wash										
Eye Wash Faucet Attachment	3½"	17¼"	15¼"	13"	10" x 14"	5"	7¾"	Adv. Tabco	7-PS-55	**11U392**

Just—Top, bowl, and apron are 18-ga. 304 stainless steel. Underside is coated to insulate for sound and reduce condensation.

Advance Tabco—1-pc. sink bowl design. A keyhole bracket provides easier installation and greater stability. No. 3LMR4 features a lever-operated drain and built-in overflow with plastic overflow tube and spring clamps.

Eagle—Have a positive drain bowl; inverted "V" rim prevents spillage. Nos. 11U261 and 11U262 are 304 stainless steel.

Description	Mfr Model	Item No.
Accessories for Advance Tabco Sinks		
Bolt On Side Splash for 14" x 10" Bowl Hand Sink w/ 7¾" Backsplash	7-PS-27-X	**11U393**
Bolt On Side Splash for 9" x 9" Bowl Hand Sink w/ 7¾" Backsplash	7-PS-27A	**11U394**
Bolt On Side Splash for No. 11U387 & 7-PS-25	7-PS-27D	**11U395**
Replacement Handle for Splash Mount Faucets	K-316-LU-X	**11U390**
Replacement Cartridges: 1-Hot/1-Cold	K-00A	**52CF23**

Portable Handwashing Stations

Freshwater stations have linear low-density polyethylene construction; dark granite color. Foot pump-operated and include soap and towel dispenser. Faucets not included.

Handstand™—Complete mobile unit on heavy rubber wheels with built-in handle.

GrandStand™—Compact and have a built-in handle and rubber treaded wheels to ease transport. No. 36Y046 adds a heater to dispense warm water.

Bravo™—No. 3HET7 heats water to 105°F and includes low-water shutoff and heater indicator light. Requires 120V, 15A, 3-prong extension cord with GFI.

Applause™—No. 3HET9 connects via garden hose to both water supply and drain.

Description	No. of Stations	Overall Dim. L	W	H	Bowl Size	Bowl Depth	Item No.
Handstand™, 16 gal. cap.	1	18"	18"	62"	15" x 6½"	4½"	**3HEU2**
Grandstand™	1	23"	18"	62"	16" x 10"	6"	**36Y045**
Grandstand™ Heated	1	23"	18"	62"	16" x 10"	6"	**36Y046**
Bravo™, 21 gal. cap.	2	26½"	21½"	62"	18" x 7½"	5¾"	**3HET6**
Bravo™ Heated, 21 gal. cap.	2	26½"	21½"	62"	18" x 7½"	5¾"	**3HET7**
Applause™, 60 gal. cap.	2	50½"	21⅜"	47½"	15¾" x 8½"	4½"	**3HET8**
Applause™ Direct Connect, 60 gal. cap.	2	50½"	21⅜"	47½"	15¾" x 8½"	4½"	**3HET9**
Wash Station™, 20 gal. cap.	4	22½"	22½"	58"	12½" x 6½"	4½"	**3HEU1**


No. 3HEU2

Stainless Steel Utility Sinks

No. of Bowls	Bowl Size	Overall Length	Overall Width	Overall Height	Brand	Item No.
With Faucet						
1	18" x 18" Bowl	19⅜"	22"	39½"	Eagle	**4AVH2**
	18" x 21" Bowl	19⅜"	25"	39½"	Eagle	**4NNH4**
	24" x 24" Bowl	25⅜"	28"	39½"	Eagle	**4AVH3**
2	18" x 18" Bowl	37⅜"	22"	39½"	Eagle	**4AVH4**
	18" x 21" Bowl	37⅜"	25"	39½"	Eagle	**1XUD1**
	24" x 24" Bowl	49⅜"	28"	39½"	Eagle	**4AVH5**
Without Faucet						
1	18" x 18" Bowl	18"	21½"	41"	Advance	**11U342**
	18" x 18" Bowl	21"	21½"	45⅛	Sani-Lav	**48PY19**
	21" x 24" Bowl	24"	24½"	41"	Advance	**3LMR6**
	21" x 36" Bowl	36"	24½"	41"	GA	**9E048**
	24" x 24" Bowl	24"	27½"	39"	Advance	**11U343**
	24" x 24" Bowl	27"	27½"	45⅛	Sani-Lav	**48PY20**
	24" x 36" Bowl	36"	27½"	41"	Advance	**11U344**
2	18" x 21" Bowl	36"	24½"	41"	Advance	**9RNF2**
	24" x 24" Bowl	48"	27½"	39"	Advance	**11U346**
3	18" x 21" Bowl	54"	24½"	41"	Advance	**11U349**

Constructed from 16-ga. 430 stainless steel, except Drainboards Nos. 11U350 to 11U352 are 18 ga., and Utility Sinks Nos. 48PY19 and 48PY20 are 14 ga. Sinks feature galvanized legs with adjustable, corrosion-resistant bullet feet (except Nos. 48PY19 and 48PY20 are all 304 stainless steel and have non-adjustable bracket-type legs) mounted directly underneath the bowls for max. support.

Item	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Brand	Item No.
Drainboards					
Detachable Drainboard	18	21	3¾	Eagle	**1JYR5**
Drainboard	18	18	2	Advance	**11U350**
	18	18	3¾	Eagle	**4AVH6**
	18	21	2	Advance	**11U351**
	24	18	3¾	Eagle	**4AVH7**
	24	24	2	Advance	**11U352**


No. 4AVH2

304 Stainless Steel Scrub Sinks

- Wall mounted
- No. 45ND44 is ADA compliant

Designed for health care use and feature a hands-free, sensor faucet. Durable, 16-ga. seamless welded construction with a sloping bottom to help minimize splashing. Satin finish. Removable front panel allows access to water control valves, waste connections, stops, and strainers. Include gooseneck spout(s) with removable spray head and temperature/pressure balancing mixing valve.

No. of Stations	Overall Length	Overall Width	Overall Height	Bowl Size	Bowl Depth	Brand	Item No.
1	30 in	23 in	26 in	17 ¼ in x 25 ½ in	11 in	Scrub-Ware	**45ND41**
1	36 in	23 ⅞ in	32 ¼ in	15 ¼ in x 33 in	14 ⅜ in	Scrub-Ware	**45ND44**
2	60 in	23 in	26 in	17 ¼ in x 55 ½ in	11 in	Scrub-Ware	**45ND42**
3	90 in	23 in	26 in	17 ¼ in x 85 ½ in	11 in	Scrub-Ware	**45ND43**


No. 45ND41

Utility Sinks

- Wall mounted
- 8" faucet mounting centers
- Faucet not included

All TIG-welded 304 stainless steel construction. 3½"-dia. stainless steel basket drain.

Material	Includes	Overall Dim. L	W	H	Bowl Size	Bowl Depth	Mfr. Model	Item No.
Stainless Steel	Basket Drain, S.S. Tubular Wall Brackets	18"	17½"	32½"	14" x 18"	12"	WSS-14-21	**11U338**
		22"	19½"	32½"	16" x 22"	12"	WSS-16-25	**11U339**
		23"	19½"	29¼"	14" x 18"	10"	FS-WM-2219	**11U340**
		27"	21½"	31¼"	16" x 22"	12"	FS-WM-2721	**11U341**


No. 11U339

Mop Sinks and Accessories

- Floor mounted

Nos. 1RLN4, 11U263, and 11U264 have 1-pc. molded basin of impact-resistant Durastone® structural fiberglass with molded drain and drain seal for 3" PVC, ABS, or iron pipe. All models meet ANSI, IAPMO, and are CSA Certified.

Body Material	Overall Dim. L	W	H	Bowl Size	Includes	Brand	Mfr. Model	Item No.
Mop Sink								
Durastone®	24"	24"	10"	24" x 24"	Drain Seal and Stainless Steel Strainer	Mustee	63M	**1RLN4**
	36"	24"	10"	24" x 36"	Drain Seal and Stainless Steel Strainer with Recessed Shelf	Mustee	65M	**11U263**
Mop Sink Kit								
Durastone®	24"	24"	10"	24" x 24"	Drain Seal, Stainless Steel Strainer, Hose and Holder, Mop Service Dual Handle Faucet and Hanger	Mustee	63CM	**11U264**
Fiberglass Reinforced Polyester Resin	24"	24"	10"	23¾" x 23¾"	Integral Drain,Stainless Steel Strainer Plate, 830AA Dual Handle Wall Mounted Faucet, 832AA Hose and Holder Combination and 889 CC Mop Hanger	Fiat Products	MSBIDTG2424100	**5NFN0**


No. 1RLN4

Description	Brand	Item No.
Accessories		
31"L Rubber Hose and Stainless Steel Hanger	Fiat Products	**11U260**
Wall Guards, Stainless Steel, 24"L x 12"H	Mustee	**1RLN6**
Mop Hanger, Stainless Steel, 24"W x 3⅜"H	Fiat Products	**11U259**
Mop Sink Utility Shelf, Stainless Steel, 24"L x 8"W	Advance Tabco	**11U336**
Mop Sink Utility Shelf, Stainless Steel, 36"L x 8"W	Advance Tabco	**11U337**

Terrazzo Mop Service Basins

Made of portland cement and marble chips; suitable for commercial installations. Black/white finish. Integral stainless steel drain eases installation. Stainless steel caps help protect against heavy use. Nos. 5NFN1 to 5NFN5 meet ANSI, IAPMO, and UPC; CSA Certified.

Description	Bowl Depth	Overall Dimensions 24"L x 24"W x 12"D Bowl Size	Item No.	24"L x 36"W x 12"D Bowl Size	Item No.	36"L x 36"W x 12"D Bowl Size	Item No.
With Stainless Steel Capped Curb	10"	20" x 20"	**5NFN1**	20" x 32"	**11U257**	—	—
With Plain Curbs		20" x 20"	**5NFN2**	20" x 32"	**11U258**	—	—
With 6" Drop Front and Stainless Steel Capped Curb		20" x 20"	**5NFN3**	20" x 32"	**11U251**	—	—
With 6" Drop Front and Stainless Steel Threshold		20" x 20"	**5NFN4**	20" x 32"	**11U252**	—	—
Neo Corner with 6" Drop Front and Stainless Steel Threshold		20" x 20"	**5NFN5**	—	—	32" x 32"	**11U250**
Neo Corner with Stainless Steel Caps		20" x 20"	**11U253**	—	—	32" x 32"	**11U254**
Neo Corner with Plain Curbs		20" x 20"	**11U255**	—	—	32" x 32"	**11U256**


No. 5NFN1


No. 11U317


No. 1JYR8


No. 6MT90


No. 11U316


No. 11U311

No. of Stations	Bowl Size	Bowl Depth	Brand	Overall Height	Overall Width	No Drainboards Overall Length	No Drainboards Item No.	With Dual Drainboards Overall Length	With Dual Drainboards Item No.	With Left Drainboard Overall Length	With Left Drainboard Item No.	With Right Drainboard Overall Length	With Right Drainboard Item No.
14 Gauge, Deep Drawn Bowls, 18" Drainboards													
1	16" x 20"	14"	Eagle Group	44½"	27½"	—	—	—	—	38⅞"	**11C703**	38⅞"	**11C704**
14 Gauge, Fabricated Bowls, 18" Drainboards													
1	18" x 20"	14"	Eagle Group	44½"	27"	23"	**1JYT2**	—	—	—	—	—	—
2	18" x 20"	14"	Eagle Group	44½"	27"	—	—	76"	**1JYT3**	—	—	—	—
3	18" x 20"	14"	Eagle Group	44½"	27"	—	—	96"	**1JYT4**	—	—	—	—
16 Gauge, Deep Drawn Bowls, 18" Drainboards													
1	16" x 20"	12"	Advance Tabco	35"	30"	—	—	—	—	60"	**3JDU1**	60"	**3JDT8**
1	16" x 20"	12"	Advance Tabco	35"	30"	—	—	—	—	72"	**3JDU5**	—	—
1	16" x 20"	14"	Eagle Group	44½"	27½"	23¼"	**1JYR6**	—	—	—	—	—	—
2	16" x 20"	14"	Eagle Group	44½"	27½"	—	—	72¼"	**1JYR7**	—	—	—	—
3	16" x 20"	14"	Eagle Group	44½"	27½"	—	—	90"	**1JYR8**	—	—	—	—
16 Gauge, Fabricated Bowls. 18" Bowls have 18" Drainboards; 24" Bowls have 24" Drainboards													
1	18" x 18"	14"	Advance Tabco	43"	24"	23"	**11U359**	54"	**11U362**	38½"	**11U360**	38½"	**11U361**
1	24" x 24"	14"	Advance Tabco	43"	30"	29"	**11U363**	72"	**11U366**	50½"	**11U364**	50½"	**11U365**
2	18" x 18"	14"	Advance Tabco	43"	24"	41"	**11U367**	72"	**11U370**	56½"	**11U368**	56½"	**11U369**
2	24" x 24"	14"	Advance Tabco	43"	30"	53"	**11U371**	96"	**11U374**	74½"	**11U372**	74½"	**11U373**
3	16" x 20"	14"	Advance Tabco	43"	26"	—	—	84"	**11U375**	—	—	—	—
3	18" x 18"	14"	Advance Tabco	43"	24"	59"	**11U376**	90"	**11U379**	74½"	**11U377**	74½"	**11U378**
3	18" x 24"	14"	Advance Tabco	43"	30"	—	—	102"	**11U381**	—	—	—	—
3	20" x 30"	14"	Advance Tabco	43"	35"	—	—	100"	**11U383**	—	—	—	—
3	24" x 24"	14"	Advance Tabco	43"	30"	—	—	120"	**11U382**	—	—	—	—
18 Gauge, Deep Drawn Bowls. 24" Drainboards													
1	16" x 20"	12"	Advance Tabco	42"	27"	25"	**11U356**	66"	**8PAH1**	46"	**8AW53**	46"	**9AD05**
1	24" x 24"	12"	Advance Tabco	42"	31"	33"	**11U358**	74"	**9JW46**	54"	**8AWJ7**	54"	**8UTK1**
2	16" x 20"	12"	Advance Tabco	42"	27"	44"	**11U357**	85"	**9GD14**	64"	**8TN09**	64"	**8AV03**
2	24" x 24"	12"	Advance Tabco	42"	31"	—	—	101"	**9DNM2**	80"	**8WU54**	80"	**9NLD6**
3	16" x 20"	12"	Advance Tabco	42"	27"	—	—	103"	**8UTJ9**	83"	**9HV22**	83"	**9WCP7**
3	20" x 28"	12"	Advance Tabco	42"	35"	—	—	115"	**11U355**	95"	**11U353**	95"	**11U354**
3	24" x 24"	12"	Advance Tabco	42"	31"	—	—	127"	**9CEV1**	107"	**9HV23**	107"	**9W869**
4	16" x 20"	12"	Advance Tabco	42"	27"	—	—	122"	**9RZ30**	101"	**9W671**	101"	**9RZ31**
4	24" x 24"	12"	Advance Tabco	42"	31"	—	—	154"	**9GD12**	133"	**8AW52**	133"	**9CEV2**
18 Gauge, Fabricated Bowls. 16" Bowls have 18" Drainboards; 24" Bowls have 24" Drainboards													
1	16" x 20"	12"	Elkay	45¾"	25¾"	21"	**11U309**	—	—	36½"	**11U310**	36½"	**11U311**
1	24" x 24"	12"	Elkay	45¾"	29¾"	29"	**11U312**	—	—	50½"	**11U313**	50½"	**11U314**
2	16" x 20"	12"	Elkay	45¾"	25¾"	39"	**11U315**	70"	**11U316**	—	—	—	—
3	16" x 20"	12"	Elkay	45¾"	25¾"	57"	**11U317**	88"	**11U318**	—	—	—	—

Stainless Steel Scullery Sinks

Sinks come with a backsplash, faucets not included, except Nos. 3JDU1 and 3JDU5. NSF Listed. For stainless steel tables with integrated sink, search for "work table sink" on Grainger.com®.

Eagle™—14-ga. sinks have fabricated bowl and stainless steel cross-braced legs. 16-ga. sinks have deep-drawn bowls and stainless steel legs.

Advance Tabco®—TIG-welded construction. 1⅝"-dia. stainless steel legs with 1" adjustable stainless steel feet. Satin finish. Drains and basket strainers included, except Nos. 3JDU1, 3JDT8, and 3JDU5. 16-ga. models have bowl with ¾" coved corner (except Nos. 3JDU1, 3JDT8, and 3JDU5) and a rolled rim edge for strength. 18-ga. models have bowl with 3" radius and stainless steel legs with gussets and channels.

Elkay®—Welded construction. Feature bowl with ¾" coved radius and 1½" edge rim design. Drainboards are die-stamped to ensure positive drainage. 3½"-dia. drain with included basket strainer. 1⅝" galvanized steel legs with 1" adjustable feet.

Twist Handle Waste Valves—For use with 3½" scullery sink drains.

Description	Brand	Item No.
Twist Handle Waste Valves		
Without Overflow Tube and Head. Cast Bronze, 2" MNPT Connection	T&S Brass	**6MT90**
With Overflow Tube And Head. Cast Bronze, FNPT 1 1/2 Or MNPT 2" Connections	T&S Brass	**6MT91**


No. 13G597


No. 11U306


No. 11U296

Institutional Stainless Steel Scullery Sinks

304 stainless steel construction with backsplash. Faucets or side splashes not included.

Just 14 Ga.—Feature stainless steel legs with adjustable feet. Interior surfaces have a polished, nonporous finish. Exposed exterior surfaces have a brush finish. Meet NSF Standard 2.

Just Government Type—Feature 16"-deep bowl with square vertical corners. 1¹⁄₁₆" front and rear horizontal radius inside bowl. Include adjustable stainless steel angle legs with angle frame, leveling bolts, and soap dish. Interior surfaces have a polished, nonporous finish. Exposed exterior surfaces have a brush finish.

Elkay®—Backsplash with 45° sloped top and 1½"W inward sloping top channel rims. Exposed surfaces have a satin finish. Include stainless steel legs with cross braces and adjustable feet. 14-ga. models have ¼" radius coved corners. 16-ga. models have seamless drawn 3½" radius coved corners. NSF Listed.

No. of Stations	Bowl Size	Bowl Depth	Overall Height	Overall Width	Brand	No Drainboards Overall Length	No Drainboards Item No.	With Dual Drainboards Overall Length	With Dual Drainboards Item No.	With Left Drainboard Overall Length	With Left Drainboard Item No.	With Right Drainboard Overall Length	With Right Drainboard Item No.
14 Gauge, Fabricated Bowl. Drainboards are 24"													
1	24" x 24"	12"	48"	27½"	Just	27"	**13G594**	75"	**13G597**	51"	**13G595**	51"	**13G596**
	24" x 24"	14"	44"	27½"	Elkay	27"	**11U286**	72"	**11U287**	—	—	—	—
2	15" x 24"	12"	48"	27½"	Just	33"	**13G598**	81"	**13G602**	57"	**13G599**	57"	**13G601**
	15" x 24"	14"	44"	27½"	Elkay	33"	**11U288**	78"	**11U289**	—	—	—	—
	18" x 24"	12"	48"	27½"	Just	39"	**13G603**	87"	**13G604**	—	—	—	—
	24" x 24"	12"	48"	27½"	Just	51"	**13G605**	99"	**13G608**	75"	**13G606**	75"	**13G607**
	24" x 24"	14"	44"	27½"	Elkay	51"	**11U290**	96"	**11U291**	—	—	—	—
3	15" x 24"	12"	48"	27½"	Just	48"	**13G609**	96"	**13G610**	—	—	—	—
	15" x 24"	14"	44"	27½"	Elkay	48"	**11U292**	93"	**11U293**	—	—	—	—
	18" x 24"	12"	48"	27½"	Just	57"	**13G611**	105"	**13G612**	—	—	—	—
	24" x 24"	12"	48"	27½"	Just	75"	**13G613**	123"	**13G614**	—	—	—	—
	24" x 24"	14"	44"	27½"	Elkay	75"	**11U294**	120"	**11U295**	—	—	—	—
Government-Type (In Accordance with WWP-541b), 14 Gauge, Fabricated Bowl. Drainboards are 24"													
1	24" x 36"	16"	51"	27"	Just	39"	**13G617**	—	—	—	—	61½"	**13G618**
16 Gauge, Deep Drawn Bowls. Drainboards are 18"													
1	18" x 24"	12¾"	42¼"	29¾"	Elkay	27"	**11U296**	27"	**11U297**	—	—	—	—
	24" x 24"	12¾"	42¼"	29¾"	Elkay	33"	**11U298**	63"	**11U299**	—	—	—	—
2	18" x 24"	12¾"	42¼"	29¾"	Elkay	47¼"	**11U301**	77¼"	**11U302**	—	—	—	—
	24" x 24"	12¾"	42¼"	29¾"	Elkay	59¼"	**11U303**	89¼"	**11U304**	—	—	—	—
3	18" x 24"	12¾"	42¼"	29¾"	Elkay	67½"	**11U305**	97½"	**11U306**	—	—	—	—
	24" x 24"	12¾"	42¼"	29¾"	Elkay	85½"	**11U307**	115½"	**11U308**	—	—	—	—

No. of Bowls	ADA Compliant	Bowl Size	Bowl Depth	Overall Length	Overall Width	No. of Holes	Gauge	Brand	Mfr. Model	Item No.
Drop-In Sink										
1	Yes	16" x 11½"	5½"	19"	18"	3	18	Elkay	LRAD1918553	**11U324**
	Yes	21" x 15¾"	6⅛"	25"	22"	4	23	Elkay	K125224	**11U319**
2	Yes	14" x 15¾"	5⅜"	33"	21¼"	4	22	Elkay	GE233214	**11U326**
Drop-In Sink with Faucet Ledge										
1	Yes	12" x 10"	5⅜"	15"	15"	2	23	Elkay	K115152	**3AEG1**
	Yes	12" x 12"	5½"	15"	18"	3	18	Just	SL-ADA-1815-A-GR-3,5.5,DCR	**13G622**
	No	12" x 12"	7½"	15"	18"	3	18	Just	SL-1815-A-GR-3	**13G639**
	No	12" x 12"	7⅜"	15"	17½"	3	18	Elkay	LR15173	**2KLF8**
	No	13½" x 16"	10⅛"	17"	22"	3	18	Elkay	DLR1722103	**3AEF7**
	No	14" x 10"	7⅜"	17"	16"	2	18	Elkay	LR17162	**1JYU4**
	Yes	15¾" x 21"	6⅛"	25"	22"	3	22	Elkay	D125223	**3AEG3**
	Yes	16" x 13½"	5½"	19½"	19"	3	18	Elkay	LRAD1919553	**11U325**
	Yes	16" x 16"	5½"	19"	22"	3	18	Just	SL-ADA-2219-A-GR-3,5.5,DCR	**13G624**
	No	16" x 13½"	7½"	19½"	19"	3	18	Elkay	LR19193	**3AEF5**
	No	16" x 11½"	7½"	19"	17½"	3	18	Just	SL-17519-A-GR-3	**13G640**
	No	16" x 11½"	7⅜"	19"	18"	3	18	Elkay	LR19183	**4YK12**
	No	16" x 16"	7⅜"	19½"	22"	3	18	Elkay	LR20223	**3AEG2**
	No	16" x 13½"	10⅛"	19½"	19"	3	18	Elkay	DLR1919103	**4YJ90**
1	No	16" x 16"	10⅛"	19½"	22"	3	18	Elkay	DLR2022103	**3AEF9**
	No	16" x 11½"	10½"	19"	17½"	3	18	Just	SLX-17519-A-GR-3	**13G629**
	Yes	18" x 14"	5½"	21"	19"	3	18	Just	SL-ADA-1921-A-GR-3,5.5,DCR	**13G623**
	No	18" x 14"	7½"	21"	19"	3	18	Just	SL-1921-A-GR-3	**13G641**
	No	18" x 14"	7⅜"	22"	19½"	3	18	Elkay	LR22193	**4YK13**
	Yes	21" x 15¾"	5⅜"	25"	21¼"	3	22	Elkay	GE125213	**11U321**
	Yes	21" x 15¾"	5½"	25"	21¼"	4	18	Elkay	LRAD2521554	**3AEG8**
	No	21" x 15¾"	8⅛"	25"	22"	3	18	Elkay	LR25223	**4YK14**
	No	21" x 15¾"	8⅛"	25"	22"	4	18	Elkay	LR25224	**4YK15**
	No	21" x 15¾"	10⅛"	25"	22"	3	20	Elkay	DSE125223	**3AEF6**
	No	21" x 15¾"	10⅜"	25"	22"	3	18	Elkay	DLR2522103	**3AEG4**
	No	21" x 15¾"	12⅛"	25"	22"	3	18	Elkay	DLR2522123	**3AEG6**
	No	22" x 16"	8"	25"	22"	3	18	Just	SL-2225-A-GR-3	**13G642**
	Yes	28" x 16"	5½"	31"	22"	4	18	Elkay	LRAD3122554	**3AEG9**
	No	28" x 16"	8"	33"	22"	3	18	Just	SL-2233-A-GR-3	**13G628**
	No	11½" x 16"	7½"	28"	22"	3	18	Just	DL-2228-A-GR-3	**13G630**
	Yes	12" x 12"	5½"	29"	18"	3	18	Just	DL-ADA-1829-A-GR-3,5.5,DCR	**13G626**
	No	12" x 12"	7⅜"	29"	18"	4	18	Elkay	LR29184	**3AEH1**
	No	13½" x 16"	8⅛"	33"	22"	3	18	Elkay	LR33223	**4YK16**
	No	13½" x 16"	8⅛"	33"	22"	4	18	Elkay	LR33224	**4YK17**
2	Yes	14" x 16"	5½"	33"	22"	3	18	Just	DL-ADA-2233-A-GR-3,5.5,DCR	**13G625**
	Yes	14" x 14"	5½"	33"	19"	3	18	Just	DL-ADA-1933-A-GR-3,5.5,DCR	**13G627**
	Yes	14" x 15¾"	6⅛"	33"	22"	4	23	Elkay	K233224	**3AEG5**
	No	14" x 15¾"	8⅛"	33"	22"	4	20	Elkay	DSE233224	**3AEF8**
	No	16" x 13½"	10⅛"	33"	22"	3	18	Elkay	DLR3322103	**3AEH2**
	No	16" x 16"	10½"	37"	22"	3	18	Just	DLX-2237-A-GR-3	**13G632**
	No	19" x 16"	7½"	43"	22"	3	18	Just	DL-2243-A-GR-3	**13G631**
Full spray sides and bottom; Installation Hardware for ¾" Thick Countertop										
1	No	28" x 16"	10⅛"	33"	22"	3	18	Elkay	DLRS3322103	**3AEG7**
Undermount Sink										
1	No	19" x 16"	7½"	21"	18"	0	18	Just	US-1821-A	**13G633**
	Yes	22" x 16"	5½"	24"	18"	0	18	Just	US-ADA-1824-A, 5.5,DCR	**13G636**
	No	22" x 16"	7½"	24"	18"	0	18	Just	US-1824-A	**13G634**
2	Yes	14" x 16"	5½"	32"	18"	0	18	Just	UD-ADA-1832-A, 5.5,DCR	**13G637**
	No	14" x 16"	7½"	32"	18"	0	18	Just	UD-1832-A	**13G635**



No. 1JYU4



No. 13G635

Drop-In Stainless Steel Sinks

ELKAY Just

- 3½" drain opening

Sinks feature bowl drawn from 18-ga., 304 (18-8) nickel-bearing stainless steel with coved corners having 1¾" vertical and horizontal radii, except for 300 series stainless steel models.

Elkay—Lustertone® sinks Nos. 1JYU4 and 4YK14 to 4YK17 feature a satin finish and include sound deadening material which minimizes sound and vibration for quieter sink operation.

Just—Fully undercoated to insulate for sound and reduce condensation. Grip Rim helps reduce installation time by up to 50%. Interior and top are polished to a nonporous finish with highlighted bowl rim. Include mounting hardware.

Stainless Steel Sink Packages

ELKAY Just CHICAGO FAUCETS a Geberit company

- Classroom Sinks have 3½"-dia. drain opening

Drop-In Sink with Faucet, No. 4YJ89—Includes 20-ga. 304 stainless steel sink, 5" gooseneck faucet, classroom bubbler, and 3½" basket strainer.

Classroom Sinks, Nos. 11U323 and 13G638—Feature 18-ga. 304 stainless steel sink. No. 11U323 includes a 2-handle high-arc faucet with restricted swing spout, classroom bubbler, and 3½" basket strainer. No. 13G638 includes vandal-resistant faucet, bubbler, and drain.

Classroom Sink, No. 13G653—16-ga. 304 stainless steel top and enclosure, 18-ga. bowl. Includes concealed vandal-resistant faucet, vandal-resistant bubbler, flat grid strainer, p-trap, and wall clip.

Bar Sink/Faucet, No. 3H330—Gooseneck faucet has swing spout and 2 handles. 5⅛" deep compartment. Satin-finish sink is sound-deadened on bottom. Includes strainer basket. 23-ga.

Bar Sink, No. 4YJ88—Includes high-swing spout faucet and strainer basket. 18-ga.

Deck Mount Bubblers—Low-lead, chrome-plated fittings. No. 5JC22 has a mouth guard that flexes on impact and a built-in adjustable flow control.

Item	ADA Compliant	Mounting Type	Overall Length	Overall Width	Bowl Size	Bowl Depth	Brand	Mfr Model	Item No.
Drop-In Sink with Faucet	Yes	Countertop	25"	17"	15¾" x 14"	6½"	Elkay	CDKAD251765C	**4YJ89**
Drop-In Classroom Sink Package w/Vandal Resistant Faucet		Drop In	31"	19"	22" x 16"	5½"	Just	CRA-ADA-1931-A-GR-3-1,5.5,DCR-T	**13G638**
Drop-In Classroom Sink Package		Top Mount	25"	17"	16" x 13½"	5"	Elkay	DRKAD251750C	**11U323**
Classroom Sink Package		Wall	25"	24"	16" x 14"	6"	Just	CWH2524	**13G653**
Drop-In Bar Sink Package	No	Countertop	15"	15"	12"x 10"	5⅜"	Elkay	KP211515C	**3H330**
		Countertop	15"	15"	12" x 9¼"	7⅛"	Elkay	BLR150C	**4YJ88**



No. 4YJ89



No. 13G638



No. 13G653



No. 3H330



No. 4YJ88

Item	Connec. (in.)Size	Type	Includes	Brand	Mfr. Model	Item No.
Deck Mount Bubblers						
Drinking Fountain Head	½" NPT	—	Self Closing Push-button Control, Built-In Adjustable Volume Control and Chrome Plated Fittings	Elkay	LK1141A	**5JC22**
Drinking Fountain	½ NPSM	One Handle Non-Metering		Chicago Faucets	748-665ABCP	**3TFH6**



No. 5H877



No. 4PL52

No. 3DVA2



Food Waste Disposers

- Quiet Dura-Drive® split-phase induction motors have permanently lubricated bearings
- Quick Lock® mounting system for easy installation
- Intermittent-duty, except Commercial models are continuous-duty

1725 rpm, 60 Hz, with overload protection and manual reset.

HP	Connection Drain	Phase	Voltage	Overall Height	Grinding Chamber Capacity	Manufacturers Warranty	Mfr. Model	Item No.
Badger and Evolution Series								
⅓	1½"	1	120	11⅜"	26 oz.	1 yr.	BADGER 1	**5H502**
		1	120	11⅜"	26 oz.	1 yr.	BADGER 1 WITH CORD	**31EE15**
½		1	120	12⅝"	26 oz.	2 yr.	BADGER 5	**5H877**
		1	120	12⅝"	26 oz.	2 yr.	BADGER 5 WITH CORD	**31EE16**
¾		1	120	12⅛"	35 oz.	4 yr.	Evolution Compact™	**2YB94**
		1	120	12⅝"	26 oz.	3 yr.	Badger 5 XP	**2YB90**
		1	120	12⅝"	40 oz.	4 yr.	Evolution Septic Assist™	**2YB95**
1		1	120	13½"	40 oz.	7 yr.	Evolution Excel™	**2YB91**
Essential XTR Series								
¾	1½"	1	120	12¼"	35 oz.	6 yr.	Essential XTR	**54DC92**

HP	Connection Drain	Phase	Voltage	Overall Height	Grinding Chamber Capacity	Mfr. Model	Item No.
Commercial Food Service Equipment							
½	1½"	1	115/120	14¼"	50 oz.	LC-50-11	**4PL52**
1		1	115/208-230	17"	85 oz.	SS-100-28	**29NZ57**
		3	208-230/460	17"	85 oz.	SS100-47	**29NZ58**
2	2"	3	208-230/460	18⅞"	111 oz.	SS200-35	**3DVA2**
3	3"	3	208-230/460	23½"	317 oz.	SS-300-25	**29NZ61**
		3	208-230/460	31⅛"	317 oz.	SS-300	**3DVA3**
5		3	208-230/460	20"	317 oz.	SS-500-30	**29NZ62**

For Use With	Material of Construc.	Sink/Bowl Hole Dia. (in.)	Mfr. Model	Item No.
Commercial Mounting Adapters				
Waste King	Steel	4½	11327-A	**4PL35**
Waste King		6	11327-D	**4PL36**
Bus Boy		6	11327-K	**4PL39**
Hobart		4½	11327-H	**4PL38**
Salvajor		6⅝	11599-H	**4PL41**

ESSENTIAL XTR

Features SoundSeal® technology for quiet operation and MultiGrind® technology that provides 2 grinding stages versus 1 stage in many standard disposers. Includes a SinkTop Switch™ accessory with button and power to ease activation.

COMMERCIAL FOOD SERVICE EQUIPMENT

- 1-yr. manufacturer's warranty

Note: New installations require a mounting adapter, sold separately on this page or go to Grainger.com® and search for "disposer, mounting adapter."

LC-50

Automatic reversing motor provides longer life and trouble-free operation. Stainless steel grind chamber. Disposer mounting included.

SS Series

Triple-lip motor seal protects motor from water damage while a secondary spring-loaded oil seal provides double protection against water and loss of grease. Cast nickel-chrome alloy stationary and rotating shredding elements provide long life and corrosion resistance and are designed for reverse-action grinding. Feature overload protection and stainless steel grind chamber.

COMMERCIAL MOUNTING ADAPTERS

Use to mount commercial food waste disposer to sink.

Septic Assist™, No. 2YB95

Bio-Charge® technology injects a microorganism-rich solution that breaks down and liquefies waste for safe handling in a septic tank.

Excel™, No. 2YB91

Jam-Sensor® circuit automatically increases motor torque up to 500%.

GA GRAINGER APPROVED

Disposer Accessories



No. 4FE91



No. 3DVA4

Description	Brand	Item No.
Coupling, Black Rubber, 3½" L	GA	**1PNV3**
Disposal Splash Guard	GA	**4FEW7**
Stopper, Stainless Steel/Plastic, 3⅓" O.D.	GA	**1PPJ4**
Bio-Charge™ Refill Cartridge, For Use with No. 2YB95	In-Sink-Erator	**4PL47**
Deluxe Mounting Gasket For Use with Evolution™ Series Disposers	In-Sink-Erator	**1WXB9**
Flexible Discharge Tube, 1½"	In-Sink-Erator	**1WXC2**
Mounting Gasket For Use with Nos. 3DVA1, 3DVA2, 3DVA3, 5H973, 5H974, and 5H975	In-Sink-Erator	**3DVA4**
On/Off Sink Top Switch	In-Sink-Erator	**4FE91**
Stainless Steel Quick-Lock® Mount	In-Sink-Erator	**1WXB8**
Stainless Steel Sink Flange	In-Sink-Erator	**1WXC1**
Standard Mounting Gasket	In-Sink-Erator	**1WXB7**

Hot Water Dispensers

- ¼" IPS water connection, except No. 485A91 has ⅜" compression

Swivel spout, provide near-boiling water instantly, and preset at 200°F (No. 485A91 is preset at 140°F). In-Sink-Erator include power cord and mounting hardware. All meet ASSE and C-UL Listed, except No. 485A91 meets NSF/ANSI 372, ETL Certified.



No. 23NU44

Thermostat	Dispenser Tank Size	Faucet Finish	Hole Dia.	Dispenser Voltage	Watts	Amps AC	H	W	Item No.
In-Sink-Erator									
Snap Action, Adjustable	0.70 gal.	Chrome	1¼" to 1½"	115VAC	750	6.25	5⅝"	6"	**23NU44**
Snap Action, Adjustable	0.70 gal.	Chrome	1 13/64" to 1½"	115VAC	750	6.25	6¼"	6⅛"	**54DC93**
from 160° to 200°F	0.70 gal.	Brushed Nickel	1 13/64" to 1½"	115VAC	750	6.25	6¼"	6⅛"	**54DC94**
Eemax									
Adjustable	0.17 gal.	Chrome Plated	1½"	240VAC	13,000	54	12"	7"	**485A91**

endura Grease Management

WATTS REGULATOR ZURN

Grease and Lint Interceptors



No. 1WXD7

Capacity	Material of Construction*	Pipe Dia. - Drains	Overall Height	Overall Width	Overall Depth	Brand	Item No.
Grease Interceptor							
14 lb.	PP	2"	16.305"	17.447"	12 3/32"	Endura	**40D974**
20 lb.	PP	2"	16.306"	17.444"	12 3/32"	Endura	**40D975**
30 lb.	CFS	2"	14"	15"	10½"	Watts	**1WXD7**
	PP	2"	16.316"	17.446"	12 3/32"	Endura	**40D976**
40 lb.	CFS	3"	21½"	24½"	36"	Zurn	**38UK33**
	PP	2"	16.304"	17.502"	17.5"	Endura	**40D977**
50 lb.	CFS	3"	17"	19⅞"	12½"	Zurn	**4WPJ7**
	PP	2"	10.94"	23.5"	7"	Endura	**40D979**
70 lb.	CFS	4"	18¾"	22½"	14¼"	Zurn	**4WPJ8**
	PP	2"	16.5"	18.5"		Endura	**40D978**
	PP	3"	16.5"	18.5"		Endura	**40D980**
	PP	3"	17.4"	23.5"	12½"	Endura	**40D981**
	PP	4"	17.4"	23.5"	12½"	Endura	**40D982**
100 lb.	CFS	4"	21½"	24½"	16"	Zurn	**4WPJ9**
	PP	3"	23.5"	23.5"	18½"	Endura	**40D983**
	PP	4"	23.5"	23.5"	18½"	Endura	**40D984**
Lint Interceptor							
—	CFS	2"	16½"	17"	13"	Zurn	**38UK34**
Solids Interceptor							
14 lb.	PP	2"	16.31"	17.439"	12 3/32"	Endura	**40D985**
Solids Interceptor Basket							
—	PP	2"	14.32"	13.794"	11 1/32"	Endura	**40D986**

** PP=Polypropylene. CFS=Coated Fabricated Steel.*

Endura® models have 1-pc. plastic tank with an airtight silicone seal, easy-to-open latching system, and an innovative removable baffle design. Nos. 40D985 and 40D986 have a removable dual-screen filtration system with coarse and fine screens. Watts models are epoxy-coated steel with removable baffle and deep seal trap with cleanout. Recessed or floor mounted. Zurn® grease interceptors have a Dura-Coated steel body, flow diffusing baffle, integral trap, and external vented inlet flow control. The Lint Interceptor No. 38UK34 separates out solids such as buttons, lint, stones, and string, and can handle up to 3 washing machines. Unit features an acid-resistant coated interior and exterior, a non-skid secured cover with removable lift handle, aluminum lint intercepting secondary screen assembly, and permanent primary straining baffle with ⅜" dia. perforated holes. Model has a high inlet and low outlet.

Faucet Spout Shapes



Low-Arc—Short spout sits close to sink basin and reduces splashing.



Mid-Arc—Taller than low-arc-spout with a curve under spout with space for filling bigger vessels.



Straight—Spout extends straight out from faucet body.



Angled Straight—Spout extends straight out and points down into the sink at an angle.



Gooseneck—Tallest spout extends high above counter and curves to point directly into sink.

CHICAGO FAUCETS a Geberit company · DELTA see what Delta can do · MOEN Buy it for looks. Buy it for life.® · ZURN · American Standard · GROHE · KOHLER®

Single-Hole Deck-Mount Bathroom Faucets

Faucets install into one hole on a flat surface such as a sink or counter. Chrome finish.



Low-Arc-Spout Chicago Faucets No. 26Y238



Mid-Arc-Spout American Standard No. 448M96



Straight-Spout Grohe No. 448N48



Gooseneck-Spout Kohler No. 55VF49

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Flow Outlet Type	Drain Style	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.	
Low-Arc-Spout												
Chicago Faucets	700	Cross	Cast Brass	2.20 gpm	Aerated	—	3⅜"	2⅝"	Yes	700-HOTABCP	**26Y222**	*
	700	Cross	Cast Brass	2.20 gpm	Aerated	—	3⅜"	2⅝"	No	700-COLDABCP	**26Y301**	†
	701	Cross	Cast Brass	2.20 gpm	Aerated	—	3⅜"	2⅝"	No	701-HOTABCP	**26Y238**	*
	701	Cross	Cast Brass	2.20 gpm	Aerated	—	3⅜"	2⅝"	No	701-COLDABCP	**26Y290**	†
Delta	Classic	Joystick	Brass	1.50 gpm	Aerated	—	4"	5.88	Yes	570LF-WF	**41H852**	
Moen	M-Dura	Joystick	Brass	2.20 gpm	Aerated	—	4⅜"	3¾"	Yes	8417	**4NEJ3**	
Zurn	AquaSpec	Cross	Brass	0.50 gpm	Spray	—	3¾"	2⅞"	No	Z82702-XL-3M	**45K796**	
	AquaSpec	Cross	Brass	2.20 gpm	Aerated	—	3¾"	2⅞"	No	Z82702-XL	**45K797**	
Mid-Arc-Spout												
American Standard	Colony Pro	Joystick	Metal	1.20 gpm	Aerated	Drain with Pop-Up Rod	4⅝"	3⁹⁄₁₆"	Yes	7075100.002	**448M96**	
Straight-Spout												
American Standard	Berwick	Joystick	Cast Brass	1.20 gpm	Aerated	Drain with Pop-Up Rod	4⅜"	2⅞"	Yes	7430101.002	**48UL12**	
Grohe	Concetto	Joystick	Brass	1.20 gpm	Aerated	Drain with Pop-Up Rod	3¹³⁄₁₆"	2-8/16"	Yes	3427000A	**448N48**	
	Eurosmart	Joystick	Zinc	1.75 gpm	Aerated	—	8⁷⁄₁₆"	5½"	Yes	30306000	**448N55**	
Gooseneck-Spout												
Kohler	Triton Bowe™	Lever	Brass	1.00 gpm	Aerated	—	5³⁄₁₆"		Yes	K-100T70-4AKA-CP	**493K06**	
	Triton Bowe™	Wristblade	Brass	1.00 gpm	Aerated	—	5³⁄₁₆"		Yes	K-100T70-5AKA-CP	**493K07**	
	Triton Bowe™	Wristblade	Brass	1.00 gpm	Laminar	Drain Not Included	5¼"	11½"	Yes	K-100T70-5AKL-CP	**55VF49**	

Valve type: * Hot cartridge. † Cold cartridge.

American Standard · CHICAGO FAUCETS a Geberit company · MOEN Buy it for looks. Buy it for life.® · ZURN

Metering-Handle Deck-Mount Bathroom Faucets

Metering handles allow users to push handle down to activate the faucet. No gripping required allowing those with limited mobility to operate faucet. Handle controls the start of water flow, but not the duration. Water flow shuts off automatically to save water in public or high-traffic restrooms. Deck-mount installs on a flat surface such as a sink or counter. Chrome finish. ADA Compliant.



Low-Arc-Spout American Standard No. 19T386



Low-Arc-Spout Moen No. 4NEF3



Low-Arc-Spout Moen No. 3RA70

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout									
1-Hole									
American Standard	Metering	Cast Brass	0.5 gpm	Spray	No	5 ⅜ in	2 in	1340M119.002	**19T386**
Chicago Faucets	333	Cast Brass	1.0 gpm	Aerated	No	3 ¾ in	2 ⅝ in	333-665PSHABCP	**3TFH2**
	333	Cast Brass	2.2 gpm	Aerated	No	3 ⅜ in	2 ⅝ in	333-336PSHABCP	**26Y224**
	807	Cast Brass	2.2 gpm	Aerated	No	4 ⅛ in	2 ¾ in	807-E12-665PAB	**26Y183**
Moen	M-Press	Brass	0.5 gpm	Aerated	No	4 ½ in	3 in	8884	**4NEF3**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	Yes	4 ¾ in	1 ⅜ in	Z86100-XL-CP4.0001	**46CE18**
	AquaSpec	Brass	0.5 gpm	Spray	No	3 ¾ in	1 ⅜ in	Z86100-XL-3M	**29VM05**
	AquaSpec	Brass	0.5 gpm	Spray	Yes	3 ¾ in	1 ⅜ in	Z86100-XL-3M-MY	**48UL48**
	AquaSpec	Brass	1.0 gpm	Aerated	No	3 ¾ in	1 ⅜ in	Z86100-XL	**4JPC8**
	AquaSpec	Cast Brass	0.5 gpm	Laminar	No	3 ⅞ in	9 ⅝ in	Z80300-XL	**24A612**
2-Hole									
American Standard	Metering	Cast Brass	1.0 gpm	Aerated	No	4 ⅝ in	2 ⅛ in	1340225.002	**1FYB7**
Chicago Faucets	3400	Cast Brass	0.5 gpm	Laminar	No	4 ¾ in	3 ⅞ in	3400-ABCP	**3TFH3**
	3600	Cast Brass	0.5 gpm	Spray	No	6 ⅝ in	4 ⅛ in	3600-E2805AB	**52CE54**
	802	Cast Brass	1.0 gpm	Aerated	No	4 in	2 ¾ in	802-V665ABCP	**3TFJ1**
Moen	M-Press	Brass	0.5 gpm	Aerated	No	4 ¾ in	3 ¾ in	8886	**3RA70**
Zurn	AquaSpec	Brass	1.0 gpm	Aerated	Yes	3 ¾ in	1 ⅜ in	Z86100-XL-CP4	**4JPC9**
	AquaSpec	Cast Brass	0.5 gpm	Aerated	Yes	4 ¼ in	3 ¼ in	Z86500-XL-3M	**29VL91**
3-Hole									
Chicago Faucets	404	Cast Brass	1.0 gpm	Aerated	No	5 in	2 ⅞ in	404-V665ABCP	**4KTK8**
	404	Cast Brass	2.2 gpm	Aerated	No	5 in	2 ⅞ in	404-665ABCP	**26Y206**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	No	6 ⅜ in	3 ¼ in	Z867R0-XL-3M	**46CE22**
	AquaSpec	Brass	1.0 gpm	Aerated	Yes	5 in	3 ¼ in	Z867R0-XL	**4JPD1**
Straight-Spout									
1-Hole									
Chicago Faucets	3500	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3500-E2805ABCP	**29RR59**
	3501	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3501-E2805ABCP	**29RR61**
	3502	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3502-E2805ABCP	**29RR62**
Gooseneck- Spout									
2-Hole									
Chicago Faucets	895	Cast Brass	1.0 gpm	Aerated	No	3 ½ in	9 ⅝ in	895-665ABCP	**5UTV3**



Low-Arc-Spout Zurn No. 4JPD1



Straight-Spout Chicago Faucets No. 29RR62



Gooseneck-Spout Chicago Faucets No. 5UTV3

For information on faucet spout shapes, see page 2733.



Low-Arc-Spout
Rubbermaid
No. 19T379



Low-Arc-Spout
Sensorflo
No. 55MJ12



Mid-Arc-Spout
American Standard
No. 4THG4



Mid-Arc-Spout
Chicago Faucets
No. 5UTX1



Mid-Arc-Spout
Toto
No. 53CH69



Straight-Spout
American Standard
No. 41H809



Straight-Spout
Kohler
No. 493J89



Straight-Spout
Kohler
No. 493J90



Straight-Spout
Sloan
No. 5YJP3



Angled Straight-Spout
Sloan
No. 23MF35



Angled Straight-Spout
Sloan
No. 23MF31



Gooseneck-Spout
American Standard
No. 41H846



Gooseneck-Spout
Zurn
No. 30PT27

Sensor Single-Hole Deck-Mount Bathroom Faucets

Hands-free touchless sensor starts or stops the flow of water to help reduce the spread of germs. Automatically turns off after a preset time. Presetting water temperature required. Deck-mount faucets install into one hole on sink or counter. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.	
Low-Arc-Spout											
Rubbermaid Commercial Products	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	3.96"	1782742	**19T379**	
	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	3.96"	1818966	**35LX87**	
	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	4.73"	1818967	**35LX88**	**
	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	4.73"	1782743	**19T380**	††
	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	4.82"	1782744	**19T381**	
	Verona Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6¾"	4.99"	1903281	**35LX91**	
Sensorflo	SENSORFLO®	Brass	0.50 gpm	Spray	AC Powered	No	6⅜"	5½"	SF-8800	**55MJ12**	
	SENSORFLO®	Brass	0.50 gpm	Spray	AC Powered	No	7"	4⅛"	SF-9800	**55MJ27**	
	SENSORFLO®	Brass	0.50 gpm	Spray	Battery	No	6⅜"	5½"	SF-8700	**55MJ09**	
	SENSORFLO®	Brass	0.50 gpm	Spray	Battery	No	7"	4⅛"	SF-9700	**55MJ25**	
Sloan	Optima	Brass	0.50 gpm	Laminar	Battery	Yes	4½"	3½"	EBF-615-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G78**	
	Optima	Brass	0.50 gpm	Laminar	Battery	Yes	5⅛"	5¾"	EBF-187-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G77**	‡‡
	Optima	Brass	0.50 gpm	Laminar	Battery	Yes	5⅛"	5¾"	EBF-85-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G80**	
	Optima	Brass	0.50 gpm	Laminar	Plug-In	Yes	5⅛"	5¾"	ETF-80-4-PLG-TEE-CP-0.5GPM-MLM-IR-FCT	**491G84**	
Zurn	AquaSense	Brass	0.50 gpm	Laminar	(4) AA Batteries	No	6⁵⁄₁₆"	6 ⅜"	Z6913-XL-CWB-F	**52JJ04**	
Mid-Arc-Spout											
American Standard	Selectronic	Brass	0.50 gpm	Laminar	Lithium Battery	No	5⅛"	5⅛"	6055105.002	**4THG4**	
	Selectronic	Cast Brass	0.35 gpm	Aerated	Lithium Battery	No	3¾₁₆"	5⅛"	6055104.002	**24X048**	
	Selectronic	Cast Brass	1.50 gpm	Aerated	Lithium Battery	No	3¾₁₆"	5⅛"	6055102.002	**41H818**	
Chicago Faucets	EQ Curved	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	No	4½"	5⅞"	EQ-A11A-11ABCP	**48TF07**	†
	EQ Curved	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	4½"	5⅞"	EQ-A11A-13ABCP	**48TF09**	†
	EQ High Arc	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	No	4½"	6⅛"	EQ-C11A-11ABCP	**48TF13**	†
	E-Tronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	No	5⅜"	6½	116.606.AB.1	**5UTP4**	
	E-Tronic	Cast Brass	0.50 gpm	Laminar	AC Powered	No	5⅜"	6½	116.706.AB.1	**5UTP5**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5½"	6⅝"	116.211.AB.1	**5UTW8**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5½"	6⅝"	116.221.AB.1	**5UTX0**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5½"	6⅝"	116.201.AB.1	**6XAE7**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5⅛"	7½"	116.212.AB.1	**5UTW9**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5⅛"	7½"	116.222.AB.1	**5UTX1**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	AC Powered	No	5⅛"	6⅝"	116.101.AB.1	**5UTN7**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	AC Powered	No	5⅛"	7½"	116.112.AB.1	**5UTP0**	
	HyTronic	Cast Brass	0.50 gpm	Laminar	AC Powered	Yes	5½"	6⅝"	116.111.AB.1	**5UTN9**	
Kohler	Kinesis™	Brass	0.50 gpm	Aerated	Battery	No	4⅞"	6¹³⁄₁₆"	K-104B76-SANA-CP	**55VF31**	
Sloan	—	Brass	0.50 gpm	Aerated	6VDC Plug-In Power Converter	No	3⅞"	4½"	SF2100-4	**5UVA1**	
	—	Brass	0.50 gpm	Laminar	6VDC Plug-In Power Converter	No	4½"	6"	SF2400-4	**5UVA4**	
	—	Brass	0.50 gpm	Laminar	Battery	No	3⅞"	4½"	SF2150-4	**5WHW8**	
	—	Brass	0.50 gpm	Laminar	Battery	No	4½"	6"	SF2450-4	**5WHX1**	
	Optima	Brass	1.50 gpm	Aerated	Battery	Yes	5⁹⁄₁₆"	6⅞"	EAF150-ISM	**5YJP2**	
	Optima	Brass	2.20 gpm	Aerated	Hardwired	Yes	5⁹⁄₁₆"	6⅞"	EAF100-P-ISM	**5YJP1**	
Toto	Tel101	Brass	0.18 gpc	Aerated	Hydropower	No	3¹⁵⁄₁₆"	4½"	TEL101-D10E#CP	**53CH66**	
	Tel105	Brass	0.09 gpm	Aerated	Hydropower	No	3¹⁵⁄₁₆"	4½"	TEL105-D10EM#CP	**53CH69**	
	Tel105	Brass	0.19 gpm	Aerated	Hydropower	Yes	3¹⁵⁄₁₆"	4½"	TEL105-C20E#CP	**53CH71**	
	Tel155	Brass	0.19 gpc	Aerated	Hydropower	No	3¹⁵⁄₁₆"	9³⁄₁₆"	TEL155-C20E#CP	**53CH80**	
Zurn	Aqua-Fit	Brass	0.50 gpm	Aerated	(4) AA Batteries	No	6½"	5 ¼"	Z6950-XL-S-F	**45NC94**	
	Aqua-Fit	Brass	0.50 gpm	Laminar	(4) AA Batteries	Yes	6¾"	5 ¼"	Z6950-XL-S-F-LL	**46CD90**	
	AquaSense	Brass	0.50 gpm	Aerated	(4) AA Batteries	Yes	6¾"	6 ⅜"	Z6913-XL-F	**41J525**	
	AquaSense	Brass	0.50 gpm	Laminar	(4) AA Batteries	Yes	6¾"	6 ⅜"	Z6913-XL-CP4-F	**41J526**	
	AquaSense	Brass	1.50 gpm	Aerated	(4) AA Batteries	Yes	6½"	6 ⅜"	Z6913-XL	**38ZL50**	

** Integrated base body faucet. † Grid strainer. ‡ Drain with pop-up rod. # Includes (2) AAA batteries. ** Thermostatic mixing valve. †† SST mixing valve. ‡‡ Includes metal throat plate.*

CONTINUED

CONTINUED

For information on faucet spout shapes, see page 2733.

Sensor Single-Hole Deck-Mount Bathroom Faucets

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Straight-Spout										
American Standard	Moments Selectronic	Cast Brass	0.50 gpm	Laminar	Lithium Battery	No	5"	5"	2506155.002	**41H809**
Kohler	Insight	Brass	0.50 gpm	Aerated	—	No	5"	—	K-13461-CP	**493J89** #
	Insight	Brass	0.50 gpm	Aerated	—	No	5"	—	K-13463-CP	**493J90**
Sloan	Optima	Brass	0.50 gpm	Aerated	Battery	Yes	4 11/32"	5 11/32"	EAF250-ISM	**5YJP3** ‡
	Optima	Brass	0.50 gpm	Aerated	Solar and Battery Powered	Yes	4 11/32"	5 11/32"	EAF275-ISM	**5YJP4**
Angled Straight-Spout										
Sloan	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	No	5 7/32"	6 15/32"	EFX250.000.0000	**23MF26**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	No	4"	5"	EFX350.000.0000	**23MF35**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	No	4"	5"	EFX650.000.0000	**23MF42** *
	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	No	4"	5"	EFX650.010.0000	**23MF44**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	Yes	6 1/16"	10"	EFX150.500.0000	**23MF17**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Battery	Yes	4"	5"	EFX350.110.0000	**23MF38**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Electronic	Yes	4"	5"	EFX300.500.0000	**23MF34**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Self Sustaining	No	4"	5"	EFX380.010.0000	**23MF41**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Self Sustaining	No	4"	5"	EFX680.010.0000	**23MF47**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Solar and Battery Powered	No	5 7/32"	6 15/32"	EFX275.000.0000	**23MF27**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Solar and Battery Powered	No	4"	5"	EFX375.000.0000	**23MF40**
	BASYS	Cast Zinc	0.50 gpm	Laminar	Solar and Battery Powered	Yes	5 7/32"	6 15/32"	EFX277.500.0000	**23MF31**
	BASYS	Cast Zinc	1.50 gpm	Aerated	Battery	No	4"	5"	EFX350.012.0000	**23MF37**
	BASYS	Cast Zinc	1.50 gpm	Aerated	Battery	No	4"	5"	EFX650.002.0000	**23MF43**
	BASYS	Cast Zinc	1.50 gpm	Aerated	Battery	No	4"	5"	EFX650.012.0000	**23MF45** *
	BASYS	Cast Zinc	1.50 gpm	Aerated	Solar and Battery Powered	No	5 7/32"	6 15/32"	EFX275.002.0000	**23MF28**
	BASYS	Cast Zinc	1.50 gpm	Aerated	Solar and Battery Powered	Yes	5 7/32"	6 15/32"	EFX277.502.0000	**23MF32**
	BASYS	Cast Zinc	1.50 gpm	Aerated	Solar and Battery Powered	Yes	6 1/16"	10"	EFX175.502.0000	**23MF19**
Gooseneck-Spout										
American Standard	Selectronic	Cast Brass	0.35 gpm	Spray	Lithium Battery	No	2"	7"	6055164.002	**41H846**
	Selectronic	Metal	0.50 gpm	Laminar	Lithium Battery	No	7"	7"	6055165.002	**4THG5**
Chicago Faucets	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	No	5 3/8"	11 3/8"	116.203.AB.1	**5UTW6**
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5 1/4"	11 3/8"	116.432.AB.1	**6XAG6**
	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	Yes	5 3/8"	11 3/8"	116.213.AB.1	**5UTP3**
	HyTronic	Cast Brass	0.50 gpm	Laminar	AC Powered	Yes	5 1/4"	11 3/8"	116.429.AB.1	**6XAE8**
	HyTronic	Cast Brass	0.50 gpm	Laminar	AC Powered	Yes	5 3/8"	11 3/8"	116.113.AB.1	**5UTP1**
	HyTronic	Cast Brass	1.00 gpm	Laminar	6V Lithium CRP2	No	5 1/4"	11 3/8"	116.430.AB.1	**6XAG4**
	HyTronic	Cast Brass	1.50 gpm	Laminar	12VAC Transformer	No	5 1/4"	11 3/8"	116.427.AB.1	**21FD43**
Kohler	Insight	Brass	0.50 gpm	Aerated	—	No	6 3/16"	—	K-13475-CP	**493J96**
	Insight	Brass	0.50 gpm	Aerated	—	No	6 3/16"	—	K-13473-CP	**493J95** #
Rubbermaid Commercial Products	Venetian Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	5 1/2"	10.284	FG750355	**4FRP5**
Sensorflo	SENSORFLO®	Brass	0.50 gpm	Spray	AC Powered	No	8 7/8"	8"	SF-9200	**55MJ20**
	SENSORFLO®	Brass	0.50 gpm	Spray	Battery	No	8 7/8"	8"	SF-9100	**55MJ15**
Sloan	—	Brass	2.20 gpm	Laminar	6VDC Plug-In Power Converter	No	5 1/4"	10"	SF2200-4	**5UVA2**
	—	Brass	2.20 gpm	Laminar	Battery	No	5 1/4"	10"	SF2250-4	**5WHW9**
	Optima	Brass	2.20 gpm	Laminar	Plug-In	Yes	8 7/16"	12 1/4"	ETF-700-4-PLG-TEE-CP-2.2GPM-LAM-IR-S-FCT	**491G82**
Zurn	AquaSense	Brass	0.50 gpm	Laminar	(4) AA Batteries	Yes	6 1/2"	12"	Z6920-XL-F	**46CD93**
	AquaSense	Brass	1.50 gpm	Laminar	(4) AA Batteries	Yes	5 3/8"	12"	Z6920-XL	**30PT27**

** Integrated base body faucet. † Grid strainer. ‡ Drain with pop-up rod. # Includes (2) AAA batteries. ** Thermostatic mixing valve. †† SST mixing valve. ‡‡ Includes metal throat plate.*



No. 5UTW7



No. 5YJR0



No. 46CD94



No. 468D23

Gooseneck-Spout Sensor Single-Hole Wall-Mount Bathroom Faucets

Hands-free sensor eliminates the spread of germs and starts/stops water flow without touching faucet. Tall gooseneck-spout extends above counter and curves to point straight down into sink. Single wall-mount hole installation saves counter space. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Spout Length	Spout Height	Mfr. Model	Item No.
Chicago Faucets	HyTronic	Cast Brass	0.50 gpm	Laminar	6V Lithium CRP2	5 3/8"	12"	116.204.AB.1	**5UTW7**
Sloan	Optima	Brass	2.20 gpm	Laminar	Electronic, Plug in Transformer	10 1/4"	10 1/4"	ETF500-P	**5YJR0**
Zurn	AquaSense	Brass	0.50 gpm	Laminar	Battery	6 1/2"	12"	Z6922-XL-F	**46CD94**
	AquaSense	Cast Brass	1.50 gpm	Laminar	Hydrogenerator	5 3/8"	12"	Z6922-XL-GEN	**468D23**

For information on faucet spout shapes, see page 2733.



Low-Arc-Spout
Moen
No. 40D657



Low-Arc-Spout
Rubbermaid
No. 35LX90



Low-Arc-Spout
Sloan
No. 491G79



Low-Arc-Spout
T&S
No. 443V42



Mid-Arc-Spout
American Standard
No. 4THG6



Mid-Arc-Spout
Sloan
No. 5UVA3



Mid-Arc-Spout
Zurn
No. 45ND30



Gooseneck-Spout
Sloan
No. 491G83



Gooseneck-Spout
Speakman
No. 46AE77



Gooseneck Spout
Speakman
No. 46AE63

Sensor Two-Hole Deck-Mount Centerset Bathroom Faucets

Hands-free touchless sensor controls the flow of water and stops the spread of germs. Water shuts off automatically after a preset time to save water costs. Presetting water temperature is required. Two-hole centerset deck-mount faucets install onto sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout										
Moen Commercial	M-Power	Brass	0.50 gpm	Laminar	(4) AA Batteries	No	3"	4½"	CA8301	**40D657**
Rubbermaid Commercial Products	Milano Auto Faucet	Brass	0.50 gpm	Aerated	(4) D Alkaline Batteries	Yes	6½"	4.82"	1818968	**35LX90**
Sloan	Optima	Brass	0.50 gpm	Laminar	Battery	Yes	4 9/16"	3⅜"	EBF-650-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G79**
	Optima	Brass	0.50 gpm	Laminar	Plug-In	Yes	4 9/16"	3⅜"	ETF-600-PLG-TEE-CP-0.5GPM-MLM-IR-FCT	**491G81**
T&S Brass	Checkpoint	Brass	2.20 gpm	Aerated	(2) AA Batteries	Yes	4⅞"	—	EC-3103	**443V42**
Mid-Arc-Spout										
American Standard	Innsbrook Selectronic	Cast Brass	0.35 gpm	Spray	Lithium Battery	Yes	3 3/16"	3¾"	6055204.002	**41H847**
	Innsbrook Selectronic	Cast Brass	0.50 gpm	Laminar	Lithium Battery	No	3 3/16"	3¾"	6055205.002	**4THG6**
	Innsbrook Selectronic	Cast Brass	1.50 gpm	Laminar	Lithium Battery	No	3 3/16"	3¾"	6055202.002	**41H820**
Sloan	—	Brass	0.50 gpm	Aerated	6VDC Plug-In Power Converter	No	4 39/64"	4 45/64"	SF2300	**5UVA3**
	—	Brass	0.50 gpm	Aerated	Battery	No	4 39/64"	4 45/64"	SF2350	**5WHX0**
Zurn	Aqua-Fit	Brass	0.50 gpm	Laminar	(4) AA Batteries	Yes	6¾"	5 1/4"	Z6955-XL-S-F-LL	**46CD91**
	AquaSense	Brass	0.50 gpm	Aerated	(4) AA Batteries	No	5⅛"	5 5/16"	Z6915-XL-F	**41J524**
	AquaSense	Brass	0.50 gpm	Aerated	(4) AA Batteries	No	6¾"	5 5/16"	Z6915-XL-CWB-F	**45ND30**
	AquaSense	Brass	1.50 gpm	Aerated	(4) AA Batteries	Yes	6¾"	5 5/16"	Z6915-XL	**41J523**
Gooseneck Spout										
Sloan	Optima	Brass	2.20 gpm	Laminar	Plug-In	Yes	6"	10¾"	ETF-770-4-PLG-TEE-CP-2.2GPM-LAM-IR-FCT	**491G83**
Speakman	Sensorflo	Metal	0.50 gpm	Aerated	AC Powered	Yes	5 3/16"	12"	S-9228-CA-E	**46AE77**
	Sensorflo	Metal	0.50 gpm	Aerated	Battery	No	5 3/16"	12"	S-9127-CA-E	**46AE64**
	Sensorflo	Metal	0.50 gpm	Aerated	Battery	Yes	5 3/16"	12"	S-9122-CA-E	**46AE63**



No. 2VEF1



No. 468A77



No. 8ZH89



No. 5XTH5



No. 5XTH7

Automatic Hand Soap Dispensers

Hands-free automatic counter dispensers release a premeasured amount of hand soap to help prevent waste. Infrared sensors detect the presence of hands so users don't have to touch the handle or dispenser opening.

Hygiene Series	Hygiene Form	Refill Size	Dispenser Color	Material	H	W	D	Brand	Mfr. Model	Item No.
Automatic Hand Soap Dispensers, ADA Compliant										
HEALTHMINDER	Liquid	800mL	Black	Brass	4¼"	1 13/16"	5⅜"	Sloan	ESD250	**2VEF1**
GOJO	Foam	1500mL	Silver	Brass	4½"	2"	5½"	Sloan	ESD-1500	**468A77**

Includes	Hygiene Series	Hygiene Form	Refill Size	Dispenser Color	Brand	Mfr. Model	Item No.
Automatic Hand Soap Dispenser and Refill Kit							
Lotion Soap, (4) D Batteries	One Shot	Liquid	800mL	Chrome	Rubbermaid Commercial Products	FG500394	**8ZH89**

Size	Hygiene Series	Hygiene Form	Packaging Type	Brand	Mfr. Model	Item No.
Replacement Soaps, Unscented						
800mL	Sloan	Liquid	Cartridge	Sloan	ESD217	**5XTH5**
1000mL	Universal	Foam	Cartridge	Sloan	SJS1751-3	**5XTH7**

For information on faucet spout shapes, see page 2733.

T&S

Single-Hole Wall-Mount Bathroom Faucet

Faucet installs into one hole in a wall or on a vertical surface to save counter space in tight or busy bathrooms. Single, low-arc-spout delivers both hot and cold water and sits close to the sink basin. Chrome finish.



Brand	Faucet Handle Type	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Mfr. Model	Item No.
T&S Brass	Cross	Brass	6.25 gpm	Laminar	3 39/64"	B-0706	4XKJ5



Low-Arc-Spout Gerber No. 499C85



Low-Arc-Spout Chicago Faucets No. 29RR63



Low-Arc-Spout Moen No. 52RP89



Low-Arc-Spout Trident No. 48LX71



Low-Arc-Spout Ez-Flo No. 444J03



Gooseneck-Spout Chicago Faucets No. 26Y221



Gooseneck-Spout Delta No. 4NLL3



Low-Arc-Spout Encore No. 20HK61



Low-Arc-Spout Zurn No. 29VL96



Mid-Arc-Spout American Standard No. 448M89



Mid-Arc-Spout Dominion Faucets No. 45L021



Mid-Arc-Spout Speakman No. 455D74



Gooseneck-Spout Kohler No. 493H38



Gooseneck-Spout Kohler No. 55VF52

CHICAGO FAUCETS a Geberit company · GERBER · ZURN · American Standard · DELTA see what Delta can do · MOEN Buy it for looks. Buy it for life.®

T&S · SPEAKMAN · TRIDENT · DOMINION FAUCETS BY KISSLER & CO. INC. · EZ-FLO · Encore by Component Hardware · KOHLER®

Two-Hole Deck-Mount Centerset Bathroom Faucets

Faucets install onto bathroom sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. These one-piece units have a spout and one or two handles on a single base for easy installation.

Brand	Series	Faucet Finish	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout											
Dome Lever Handle											
Chicago Faucets	802	Chrome	Cast Brass	0.50 gpm	—	Laminar	4"	2 3/4"	Yes	802-V1000E66ABCP	**48YD92**
Gerber	43-431	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/8"	1 9/16"	Yes	G0743431	**499C85**
Zurn	AquaSpec	Chrome	Brass	0.50 gpm	—	Aerated	5 1/4"	3 5/8"	Yes	Z81103-XL-3M	**46CD98**
	AquaSpec	Chrome	Brass	2.20 gpm	—	Aerated	4 1/4"	3 5/8"	Yes	Z81103-XL	**29VM06**
Joystick Handle											
American Standard	Colony Pro	Chrome	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 1/2"	3 3/16"	Yes	7075000.002	**448M87**
	Monterrey	Chrome	Cast Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 3/8"	2 3/8"	Yes	6114111.002	**48UK56**
	Reliant 3	Chrome	Cast Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 7/8"	2 5/8"	Yes	7385047.002	**48UK78**
Chicago Faucets	2201	Chrome	Cast Brass	2.20 gpm	Drain with Pop-Up Rod	Aerated	4 3/4"	4"	Yes	2201-4ABCP	**26Y214**
	420	Chrome	Cast Brass	0.50 gpm	—	Spray	4 5/8"	3 1/4"	Yes	420-E2805ABCP	**29RR63**
	420	Chrome	Cast Brass	1.50 gpm	—	Laminar	4 5/8"	3 1/4"	Yes	420-ABCP	**5UTT8**
	420	Chrome	Cast Brass	1.50 gpm	Drain with Pop-Up Rod	Laminar	4 5/8"	3 1/4"	Yes	420-POABCP	**6XAH3**
Delta	Classic	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5"	6.56	Yes	500-DST	**4NLK1**
	Delta Commercial	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5"	6.56	Yes	501LF-HDF	**10N781**
	Delta Commercial	Chrome	Brass	1.50 gpm	—	Aerated	5 7/64"	—	Yes	22C131	**4NLK8**
	Delta Commercial	Chrome	Brass	1.50 gpm	—	Aerated	5"	4.88	Yes	520LF-HDF	**10N782**
	Delta Commercial	Chrome	Brass	1.50 gpm	Drain with Pop-Up Rod	Aerated	5 3/4"	—	Yes	22C331	**4NLK6**
Moen	Chateau	Chrome	Brass	1.20 gpm	—	Aerated	4 3/8"	2"	Yes	L4605	**52RP89**
	Chateau	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 3/8"	7"	Yes	L4621	**52RP90**
	M-Dura	Chrome	Brass	1.20 gpm	—	Aerated	7"	3 3/4"	Yes	8413F12	**46KK56**
	M-Dura	Chrome	Brass	2.20 gpm	—	Aerated	5"	3 3/4"	Yes	8413	**4NEJ2**
T&S Brass	—	Chrome	Brass	2.20 gpm	—	Aerated	4"	—	Yes	B-2711	**5NRE3**
Knob Handle											
Delta	Delta Commercial	Chrome	Brass	1.50 gpm	—	Aerated	3 7/16"	3 1/4"	Yes	2502LF	**6NRG1**
Delta	Delta Commercial	Chrome	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/4"	3 1/4"	No	2502LF	**52HP82**
Dominion Faucets	Silver	Chrome	Cast Brass	1.20 gpm	—	Aerated	4"	—	No	77-1005	**45L014**
	Silver	Chrome	Cast Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4"	—	No	77-1106	**31XJ38**
Ez-Flo	Nonmetallic Collection	Chrome	Plastic	1.2 gpm	—	Aerated	3"	1 1/2"	No	10252	**444J06**
	Nonmetallic Collection	Chrome	Plastic	2.00 gpm	Drain with Pop-Up Rod	Aerated	3"	1 1/2"	No	10256N	**444J18**
	Prestige Collection	Chrome	Brass	1.20 gpm	—	Aerated	5 7/8"	3 1/4"	No	10120LF	**444J17**
	Prestige Collection	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 7/8"	3 1/4"	No	10119LF	**444J16**
	Traditional Collection	Chrome	Metal	1.20 gpm	—	Aerated	5 7/8"	1 13/16"	No	10281LF	**444J99**
Trident	—	Chrome	Brass	1.20 gpm	—	Aerated	3 13/16"	2 7/8"	No	48LX71	**48LX71**
Lever Handle											
American Standard	Colony Pro	Chrome	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 1/2"	3 1/4"	Yes	7075200.002	**448M99**
	Colony Pro	Brushed Nickel	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 1/2"	3 1/4"	Yes	7075200.295	**448N13**
Chicago Faucets	802	Chrome	Cast Brass	2.20 gpm	—	Aerated	4"	2 3/4"	Yes	802-VXKABCP	**26Y302**
Delta	Delta Commercial	Chrome	Brass	1.50 gpm	Grid Strainer	Aerated	5 7/64"	3 5/8"	Yes	21C333	**4NLK7**
Ez-Flo	Impressions Collection	Brushed Nickel	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 13/16"	1 3/4"	Yes	10191	**444J03**
Moen	M-Dura	Chrome	Brass	1.20 gpm	—	Aerated	5 1/2"	4 1/2"	Yes	8210F12	**46KK53**
T&S Brass	—	Chrome	Brass	2.20 gpm	—	Aerated	3 3/4"	—	Yes	B-0871	**5NRE4**
Wristblade Handle											
American Standard	Monterrey	Chrome	Cast Brass	1.50 gpm	—	Aerated	3 3/4"	1 3/4"	Yes	5500170.002	**4THP9**
Chicago Faucets	802	Chrome	Cast Brass	1.00 gpm	—	Aerated	4"	2 3/4"	Yes	802-V317E64ABCP	**48YD89**
	802	Chrome	Cast Brass	2.20 gpm	—	Aerated	4"	2 3/4"	Yes	802-V317ABCP	**26Y186**
Delta	Delta Commercial	Chrome	Brass	1.50 gpm	—	Aerated	5 7/64"	3 5/8"	Yes	21C132	**4NLL1**
Encore	KL83	Chrome	Brass	0.50 gpm	—	Aerated	4"	3"	Yes	KL83-4104-CA4	**20HK61**
Kohler	Triton Bowe™	Polished Chrome	Brass	0.50 gpm	Drain Not Included	Laminar	3 13/16"	1 1/2"	Yes	K-400T20-4ANL-CP	**55VF60**
Moen	M-Bition	Chrome	Brass	1.20 gpm	—	Aerated	4"	3 5/16"	Yes	8800	**52RP91**
Moen	M-Dura	Chrome	Brass	2.20 gpm	—	Aerated	5 1/2"	4 1/2"	Yes	8215	**4NEJ1**
T&S Brass	—	Chrome	Cast Brass	2.20 gpm	Drain with Pop-Up Rod	Aerated	3 3/4"	—	Yes	B-0891	**4XKJ7**
Zurn	AquaSpec	Chrome	Cast Brass	0.50 gpm	—	Aerated	4 1/4"	3 5/8"	Yes	Z81104-XL-3M	**29VL96**

CONTINUED

Two-Hole Deck-Mount Centerset Bathroom Faucets

Brand	Series	Faucet Finish	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Mid-Arc-Spout											
Lever Handle											
American Standard	Delancey	Polished Chrome	Brass	1.20 gpm	Press and Seal Drain	Aerated	4 13/16"	5 5/8"	Yes	7052207.002	**55DM06**
	Portsmouth	Brushed Nickel	Cast Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 5/8"	2 7/8"	Yes	7415201.295	**48UK86**
Dominion Faucets	Silver	Chrome	Cast Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4"	—	Yes	77-1190	**45L021**
Speakman	Chelsea	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	8"	2 55/64"	Yes	SB-1711-E	**455D74**
Straight-Spout											
Lever Handle											
Kohler	Triton Bowe™	Chrome	Brass	1.00 gpm	—	Aerated	3 15/16"	—	Yes	K-400T20-4AKA-CP	**493J97**
Gooseneck-Spout											
Dome Lever Handle											
Chicago Faucets	1895	Chrome	Cast Brass	2.20 gpm	—	Aerated	3 1/2"	3 1/2"	Yes	1895-ABCP	**26Y221**
Lever Handle											
Delta	Delta Commercial	Chrome	Cast Brass	1.50 gpm	—	Aerated	4 1/2"	—	Yes	27C4843	**4NLL3**
Kohler	Archer	Chrome	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4"	6 3/8"	Yes	K-11075-4-CP	**493H38**
	Triton Bowe™	Chrome	Brass	1.00 gpm	—	Aerated	5 3/16"	—	Yes	K-400T70-4AKA-CP	**493J99**
	Triton Bowe™	Polished Chrome	Brass	0.50 gpm	Drain Not Included	Laminar	5 3/16"	7 3/4"	No	K-400T70-4ANL-CP	**55VF52**
	Triton Bowe™	Polished Chrome	Brass	1.00 gpm	Drain Not Included	Laminar	5 3/16"	7 3/4"	Yes	K-400T70-4AKL-CP	**55VF51**
Zurn	AquaSpec	Chrome	Brass	0.50 gpm	—	Aerated	4 1/2"	10 7/16"	Yes	Z812A1-XL-3F	**46CD99**
	AquaSpec	Chrome	Brass	0.50 gpm	—	Aerated	6 3/8"	11 5/16"	Yes	Z812B1-XL-3F	**46CE01**
	AquaSpec	Chrome	Brass	2.20 gpm	—	Aerated	3 1/2"	10 7/16"	Yes	Z812A1-XL	**29VL99**
	AquaSpec	Chrome	Brass	2.20 gpm	—	Aerated	5 3/8"	11 5/16"	Yes	Z812B1-XL	**38VC59**
Wristblade Handle											
Kohler	Triton Bowe™	Polished Chrome	Brass	1.00 gpm	Drain Not Included	Laminar	5 3/16"	7 3/4"	Yes	K-400T70-5AKL-CP	**55VF53**



Brushed Nickel Straight-Spout Speakman No. 46AE09



Chrome Low-Arc-Spout Chicago Faucets No. 48YD59



Chrome Low-Arc-Spout Kohler No. 493H40



Chrome Low-Arc-Spout Zurn No. 46CE14



Chrome Mid-Arc-Spout Ez-Flo No. 444J04



Chrome Straight-Spout Grohe No. 448N50



Chrome Low-Arc-Spout Moen No. 40D691



Legacy Bronze Low-Arc-Spout American Standard No. 55DM91



Polished Chrome Gooseneck-Spout Kohler No. 55VF58

Three-Hole Widespread Deck-Mount Bathroom Faucets

Faucets install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole. Hot and cold water supplies are combined inside the spout.

Brand	Faucet Handle Type	Series	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Brushed Nickel Faucet Finish											
Low-Arc-Spout											
American Standard	Lever	Colony Pro	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	3"	3"	Yes	7075802.295	**448N17**
	Lever	Town Square S	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 3/16"	2 9/16"	Yes	7455801.295	**55DM92**
Straight-Spout											
Speakman	Lever	Caspian	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/4"	8 1/8"	Yes	SB-1221-E-BN	**46AE09**
	Lever	Kubos	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/2"	4 3/4"	Yes	SB-2421-BN	**455D80**
	Lever	Neo	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 21/32"	6 3/4"	No	SB-1021-E-BN	**46AD95**
Chrome Faucet Finish											
Gooseneck Spout											
Kohler	Lever	Alteo	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 1/2"	6 3/8"	Yes	K-45102-4-CP	**493H42**
	Lever	Forte	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/8"	3 1/4"	Yes	K-10272-4-CP	**493H44**
Low-Arc-Spout											
American Standard	Lever	Colony Pro	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	3"	3"	Yes	7075800.002	**448N03**
	Lever	Monterrey	Brass	1.50 gpm	—	Aerated	2 1/4"	2 1/4"	Yes	6500140.002	**20CK73**
	Wristblade	Monterrey	Cast Brass	0.35 gpm	—	Laminar	4 1/16"	2 1/4"	Yes	6500174.002	**41H850**
Chicago Faucets	Lever	404	Cast Brass	0.50 gpm	—	Laminar	5"	2 7/8"	Yes	404-E70ABCP	**48YD59**
	Lever	404	Cast Brass	2.20 gpm	—	Aerated	5"	2 7/8"	Yes	404-ABCP	**5UTT7**
	Wristblade	404	Cast Brass	0.50 gpm	—	Laminar	5"	2 7/8"	Yes	404-E70-317ABCP	**48YD57**
	Wristblade	404	Cast Brass	2.20 gpm	—	Aerated	5"	2 7/8"	Yes	404-317ABCP	**6XAF1**
Kohler	Lever	Coralais	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 1/16"	4"	Yes	K-15261-4RA-CP	**493H40**
	Lever	Devonshire	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	6 3/8"	4 5/8"	Yes	K-394-4-CP	**493H41**
Moen	Wristblade	M-Dura	Brass	2.20 gpm	—	Aerated	3"	4 3/16"	Yes	8228	**40D652**
Speakman	Wristblade	Commander	Brass	0.50 gpm	—	Aerated	4"	8"	Yes	SC-3044-LD-E	**46AD75**
Zurn	Lever	AquaSpec	Brass	0.50 gpm	—	Aerated	6 3/8"	3"	Yes	Z831R1-XL-3M	**46CE14**
	Lever	AquaSpec	Brass	2.20 gpm	—	Aerated	5 1/8"	3"	Yes	Z831R1-XL	**29VM07**
	Wristblade	AquaSpec	Brass	0.50 gpm	—	Aerated	6 3/8"	3"	Yes	Z831R4-XL-3M	**46CE15**
	Wristblade	AquaSpec	Brass	2.20 gpm	—	Aerated	5"	3"	Yes	Z831R4-XL	**29VL93**
Mid-Arc-Spout											
Ez-Flo	Lever	Impressions Collection	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	6 5/8"	3"	Yes	10192	**444J04**
Speakman	Lever	Chelsea	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5"	5 7/8"	Yes	SB-1721-E	**46AE17**
Straight-Spout											
Grohe	Lever	Concetto	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 3/16"	3 3/8"	Yes	20572001	**448N50**
Moen	Lever	90°	Metal	1.20 gpm	Drain with Pop-Up Rod	Aerated	4"	4 1/16"	Yes	TS6720	**40D691**
Speakman	Lever	Caspian	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 1/4"	8 1/8"	Yes	SB-1221-E	**46AE08**

CONTINUED

CONTINUED

For information on faucet spout shapes, see page 2733.

Three-Hole Widespread Deck-Mount Bathroom Faucets

Brand	Faucet Handle Type	Series	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Legacy Bronze Faucet Finish											
Low-Arc-Spout											
American Standard	Lever	Town Square S	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 3/16"	2 5/16"	Yes	7455801.278	**55DM91**
Mid-Arc-Spout											
American Standard	Lever	Edgemere	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	4 3/4"	4 1/16"	Yes	7018801.278	**55DM28**
Polished Chrome Faucet Finish											
Gooseneck Spout											
Kohler	Wristblade	Triton Bowe™	Brass	0.50 gpm	Drain Not Included	Laminar	5 3/16"	7 3/16"	Yes	K-800T70-5ANL-CP	**55VF58**
Low-Arc-Spout											
American Standard	Lever	Town Square S	Brass	1.20 gpm	Drain with Pop-Up Rod	Aerated	5 3/16"	2 5/16"	Yes	7455801.002	**55DM90**
Kohler	Lever	Triton Bowe™	Brass	0.50 gpm	Drain Not Included	Laminar	5 1/2"	1 15/16"	Yes	K-800T20-4ANL-CP	**55VF89**
Mid-Arc-Spout											
American Standard	Lever	Delancey	Brass	1.20 gpm	Press and Seal Drain	Aerated	4 13/16"	5 1/4"	Yes	7052807.002	**55DM09**

Single-Hole Deck-Mount Kitchen Sink Faucets

Faucets install into one hole on a new or existing kitchen sink or counter. Hot and cold water flows through a single spout. These aerated faucets may be used with cover plates that cover extra predrilled holes in a sink. Chrome finish, except No. 493J35 is stainless steel. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout							
Joystick Handle							
American Standard	Colony Pro	Cast Brass	1.50 gpm	8 1/2"	4.9"	7074010.002	**448N18**
Chicago Faucets	430	Brass	1.50 gpm	9"	6"	431-MPABCP	**29RR70**
Delta	NA	Brass	1.50 gpm	8 11/16"	7.81"	101LF-HDF	**6NRG2**
Zurn	AquaSpec	Brass	0.50 gpm	10"	11 1/2"	Z82300-XL-3M	**52JJ07**
Straight-Spout							
Joystick Handle							
American Standard	Reliant +	Cast Brass	2.20 gpm	9 1/8"	6"	4205104.002	**4THR4**
Grohe	Concetto	Brass	1.50 gpm	7 15/16"	4 1/2"	31453001	**448N51**
Trident	—	Brass	1.80 gpm	9 1/16"	7"	5DJD3	**5DJD3**
Gooseneck-Spout							
Lever Handle							
Chicago Faucets	—	Cast Brass	2.20 gpm	5 1/4"	13 1/4"	50-ABCP	**4KTK9**
	—	Cast Brass	2.20 gpm	5 1/4"	13 1/4"	50-XKABCP	**26Y303**
Side Joystick Handle							
American Standard	Colony Soft	Cast Brass	2.20 gpm	8 15/16"	8"	4175300.002	**24PR01**
Chicago Faucets	350	Cast Brass	2.20 gpm	5 1/4"	13"	350-ABCP	**5UTT4**
Wristblade Handle							
Chicago Faucets	50	Cast Brass	2.20 gpm	5 1/4"	13 3/8"	50-317XKABCP	**5UTU3**
Gooseneck Pull Out Spout							
Side Joystick Handle							
Kohler	Simplice	Brass	1.50 gpm	9"	9 5/8"	K-596-CP	**493J34**
	Simplice	Brass	1.50 gpm	9"	9 5/8"	K-596-VS	**493J35**
Double-Joint-Spout							
Lever Handle							
T&S Brass	—	Brass	5.23 gpm	18"	10 3/8"	B-0590	**4XKL1**



Low-Arc Spout
Chicago Faucets
No. 29RR70



Low-Arc-Spout
Delta
No. 6NRG2



Low-Arc Spout
Zurn
No. 52JJ07



Straight-Spout
American Standard
No. 4THR4



Straight-Spout
Grohe
No. 448N51



Straight-Spout
Trident
No. 5DJD3



Gooseneck-Spout
Chicago Faucets
No. 5UTT4



Gooseneck-Spout
Kohler
No. 493J34



Double-Joint-Spout
T&S
No. 4XKL1

Two-Hole Centerset Kitchen Sink Faucets

Faucets install onto kitchen sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. They can cover an unused middle hole on sinks with a three-hole centerset pattern. These one-piece units have a spout and one or two handles on a single base. Deck mount, except No. 26Y192 is wall mount. Chrome finish.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout									
Dome Lever Handle									
Chicago Faucets	1100	Cast Brass	2.20 gpm	Aerated	8"	6 5/8"	Yes	1100-XKABCP	**26Y242**
Zurn	AquaSpec	Brass	0.50 gpm	Aerated	8"	6 11/16"	Yes	Z871G3-XL-3F	**46CE25**
	AquaSpec	Brass	2.20 gpm	Aerated	8"	6 11/16"	Yes	Z871G3-XL	**45K792**
Joystick Handle									
T&S Brass	—	Brass	2.20 gpm	Aerated	9"	7 61/64"	Yes	B-2731	**5NRE7**
Zurn	Temp Gard	Cast Brass	1.00 gpm	Aerated	8 3/8"	7 5/8'	Yes	Z7872C-XL-SO	**468D40**
Lever Handle									
Chicago Faucets	527	Cast Brass	2.20 gpm	Laminar	6 1/4"	7 5/8"	Yes	527-ABCP	**26Y235**
	895	Cast Brass	2.20 gpm	Aerated	12"	6"	Yes	895-L12ABCP	**5UTV4**
	1100	Cast Brass	2.20 gpm	Aerated	8"	6 5/8"	Yes	1100-ABCP	**3TFG9**
	W4D	Brass	1.50 gpm	Aerated	9 1/2"	7"	Yes	W4D-L9E35-369AB	**41N763**
	W4D	Brass	6.00 gpm	Laminar	9 1/2"	7"	Yes	W4D-L9E1-369AB	**41N765**
Straight-Spout									
Knob Handle									
Dominion Faucets	Silver	Cast Brass	1.75 gpm	Aerated	8"	—	No	77-4891	**45L018**
Lever Handle									
Advance Tabco	Heavy Duty	Brass	1.50 gpm	Aerated	12"	5"	No	K1-GR	**3LMR7**
	Heavy Duty	Brass	2.00 gpm	Aerated	14"	8 1/2"	No	K-111 B-2291	**3LMR8**
Gooseneck-Spout									
Chicago Faucets	521	Cast Brass	12.00 gpm	Laminar	5 1/4"	6 3/4"	Yes	521-GN2AE1ABCP	**26Y192**
Trident	—	Brass	1.80 gpm	Aerated	3 5/8"	10 1/2"	Yes	5DJD6	**5DJD6**



Low-Arc-Spout
Chicago Faucets
No. 26Y242



Low-Arc-Spout
T&S
No. 5NRE7



Low-Arc-Spout
Zurn
No. 468D40



Straight-Spout
Dominion Faucets
No. 45L018



Straight-Spout
Advance Tabco
No. 3LMR7



Gooseneck-Spout
Trident
No. 5DJD6

For information on faucet spout shapes, see page 2733.



Low-Arc-Spout
Chicago Faucets
No. 26Y226



Straight-Spout
Chicago Faucets
No. 26Y196



Straight-Spout
Dominion Faucets
No. 45L026



Double-Joint-Spout
Chicago Faucets
No. 26Y184

CHICAGO FAUCETS a Geberit company · DOMINION FAUCETS BY KISSLER & CO. INC.

Two-Hole Widespread Wall-Mount Kitchen Sink Faucets

Faucets install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. Wall-mount faucets save counter space in tight or busy kitchens. All faucets are aerated and include lever handles. Chrome finish.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Chicago Faucets	445	Cast Brass	2.20 gpm	8"	5⅛	Yes	445-L8ABCP	**26Y226**
Straight-Spout								
Chicago Faucets	540	Cast Brass	2.20 gpm	12"	5"	Yes	540-LDL12ABCP	**26Y196**
Dominion Faucets	Silver	Brass	2.20 gpm	8"	—	No	77-8600	**45L026**
Double-Joint-Spout								
Chicago Faucets	445	Cast Brass	2.20 gpm	13"	4½"	Yes	445-DJ13ABCP	**26Y250**
	445	Cast Brass	2.20 gpm	18"	4½"	Yes	445-DJ18ABCP	**26Y184**



Low-Arc-Spout
Chicago Faucets
No. 26Y234



Low-Arc-Spout
American Standard
No. 448N19



Low-Arc-Spout
Delta
No. 4NLK3



Low-Arc-Spout
Kohler
No. 493J33



Low-Arc-Spout
Moen
No. 4NEH8



Straight-Spout
Moen
No. 40D673



Gooseneck-Spout
Zurn
No. 468D46

CHICAGO FAUCETS a Geberit company · American Standard · DELTA see what Delta can do · KOHLER® · MOEN Buy it for looks. Buy it for life.® · ZURN

Three-Hole Widespread Deck-Mount Kitchen Sink Faucets

Faucets install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole. All faucets are aerated and have a chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout							
Dome Lever							
Chicago Faucets	1888	Cast Brass	2.20 gpm	9½"	6⅜"	1888-ABCP	**26Y234**
Joystick							
American Standard	Colony Pro	Cast Brass	1.50 gpm	8½"	4.9"	7074000.002	**448N19**
Delta	NA	Brass	1.80 gpm	8 1⅛"	8.38"	100-DST	**4NLK3**
Kohler	Coralais	Metal	1.50 gpm	8½"	6¼"	K-15171-F-CP	**493J33**
Moen	Chateau	Brass	1.50 gpm	9⅛"	6 11⁄16"	7425	**4NEH8**
	Chateau	Cast Metal	1.50 gpm	9⅛"	8½"	67425	**40D685**
Lever							
Chicago Faucets	201	Cast Brass	2.20 gpm	9½"	8⅛"	201-AABCP	**6XAE9**
Straight-Spout							
Wristblade							
American Standard	Monterrey	Cast Brass	1.50 gpm	7⅝"	7⅝"	6405170.002	**24PR20**
Moen	M-Bition	Cast Metal	1.50 gpm	8¾"	12½"	8799	**40D673**
Gooseneck-Spout							
Lever							
Zurn	AquaSpec	Cast Brass	2.20 gpm	3½"	9 ½"	Z831A1-XL	**468D46**



Low-Arc-Spout
American Standard
No. 448N21



Low-Arc-Spout
Chicago Faucets
No. 29RR69



Low-Arc-Spout
Delta
No. 4NLK4



Gooseneck-Spout
Trident
No. 12U344

American Standard · CHICAGO FAUCETS a Geberit company · DELTA see what Delta can do · TRIDENT™

Four-Hole Widespread with Sprayer Deck-Mount Kitchen Sink Faucets

Faucets install onto kitchen sinks or counters and require three holes for the faucet unit with the outermost holes being 8" apart. A fourth hole is also required for the handheld sprayer. All faucets are aerated.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Joystick								
American Standard	Colony Pro	Cast Brass	1.50 gpm	8½"	4.9"	Yes	7074040.002	**448N21**
Chicago Faucets	430	Brass	1.50 gpm	9"	6"	Yes	432-ABCP	**29RR69**
Delta	Classic	Brass	1.80 gpm	8 1⁄16"	8.38"	Yes	400-DST	**4NLK4**
Knob								
Trident	—	Brass	1.80 gpm	9 13⁄16"	10½"	No	12U343	**12U343**
Gooseneck-Spout								
Lever								
Trident	—	Brass	1.80 gpm	8 5⁄16"	10 9⁄16"	Yes	12U344	**12U344**



Deck-Mount
T&S
No. 5WMY2



Wall-Mount
Encore
No. 20HK67



Wall-Mount
T&S
No. 5WMX8

T&S · Encore by Component Hardware

Gooseneck Pre-Rinse Faucets

Sprays water for dishwashing, food processing, and washdown applications. Gooseneck extends above counter and curves to point directly into sink basin. Install on deck or wall, into sinks, counters, or horizontal surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. Chrome-plated finish with lever handles

Brand	Series	No. of Holes	Faucet Body Material	Flow Rate	Spout Length	H	Mfr. Model	Item No.
Deck-Mount								
T&S Brass	—	1	Brass	1.42 gpm	12"	40⅛"	B-2338	**5WMY2**
	—	1	Brass	1.42 gpm	14 1⁄16"	38 11⁄16"	B-2250-B	**5WMY1**
	—	1	Brass	1.42 gpm	14 1⁄16"	42 1⁄16"	B-0113-B	**5WMX7**
Wall-Mount								
Encore	KL53	3	Brass	1.60 gpm	16⅞"	35"	KL53-1000 - BR	**20HK67** *
T&S Brass	—	2	Brass	1.42 gpm	14 1⁄16"	33 9⁄16"	B-0133-B	**5WMX8**

**** ADA Compliant.***

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

For information on faucet spout shapes, see page 2733.

Single-Hole Wall-Mount Glass Fillers

Glass fillers install into one hole on a vertical surface such as a wall. They provide a narrow stream of water for filling drinking glasses or water bottles. Straight-spout faucets extend straight out from the body of the faucet. Glass-activated push lever handles except No. 26Y282 is metering requiring users to push to start, shuts off automatically. Chrome finish.



Chicago Faucets
No. 41N760



Metering
Chicago Faucets
No. 26Y282



T&S
No. 5NRF4

Brand	Series	Faucet Handle Material	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Chicago Faucets	312	Metal	Cast Brass	1.00 gpm	Laminar	4⅜"	1½"	Yes	312-ABCP	**41N760**
	324	Metal	Cast Brass	0.25 gpm	Laminar	4"	1½"	Yes	324-665PSHABCP	**26Y282**
	712	Metal	Cast Brass	1.00 gpm	Aerated	4"	9³⁄₁₆"	No	712-ABCP	**41N759**
T&S Brass	—	Plastic	Brass	0.25-2.25 gpm	Laminar	—	4³⁷⁄₆₄"	Yes	B-1205	**5NRF4**
	—	Plastic	Brass	0.25-2.25 gpm	Aerated	3¾"	9²¹⁄₆₄"	Yes	B-1210	**5NRF3**
	—	Plastic	Brass	0.25-2.25 gpm	Aerated	4⅛"	4³⁷⁄₆₄"	Yes	B-1200	**2MCU2**

Gooseneck Bar Sink Faucets

Bar sink faucets are compact with a tall spout. Install on small sinks in tight areas where food is prepared or beverages are served, such as bars and restaurants. Feature metal faucet handles, aerated flow spouts and chrome finish. **Single-Hole Faucets** install into one hole on a bar sink or counter. **Two-Hole Centerset Faucets** install onto sinks, counters, walls or other vertical or horizontal surfaces that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. **Three-Hole Widespread Faucets** install into a sink or counter with three holes where the outermost holes are 8" apart when measuring from center-of-hole to center-of-hole.



Single-Hole
Chicago Faucets
No. 48YD70



Two-Hole Deck-Mount
Moen
No. 6MPT6



Two-Hole
Wall-Mount
T&S
No. 10C480



Two-Hole
Off Center
Delta
No. 4NLK5



Three-Hole
Moen
No. 52JN02

Brand	Series	No. of Handles	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Single Hole Deck-Mount										
Lever Handle										
Chicago Faucets	50	2	Cast Brass	1.50 gpm	Aerated	5¼"	13⅜'	Yes	50-E35-XKABCP	**48YD70**
T&S Brass	—	2	Brass	8.67 gpm	Aerated	5¼"	13½"	No	B-0300	**4XKK7**
Two-Hole Centerset Deck-Mount										
Wristblade Handle										
Moen	M-Bition	2	Cast Metal	1.2 gpm	Aerated	4¾"	8⅞"	Yes	8948	**6MPT6**
	M-Bition	2	Metal	1.50 gpm	Aerated	4⁹⁄₁₆"	10½"	Yes	8938	**4NEJ5**
Two-Hole Centerset Wall-Mount										
Lever Handle										
T&S Brass	—	2	Brass	13.80 gpm	Laminar	10⅜"	6⅜"	Yes	B-0341	**10C480**
Two-Hole Off Center-Right Deck-Mount										
Joystick Handle										
Delta	Classic	1	Brass	1.50 gpm	Aerated	5"	10"	Yes	1903DST	**4NLK5**
Three-Hole Widespread Deck-Mount										
Wristblade Handle										
Moen	M-Dura	2	Brass	1.50 gpm	Aerated	5¼"	10¾"	Yes	8248	**52JN02**
	M-Dura	2	Brass	1.50 gpm	Aerated	8"	13¼"	Yes	8225smf15	**46KK55**
Moen	M-Dura	2	Brass	2.20 gpm	Aerated	8"	13¼"	Yes	8225	**6MPT7**

Two-Hole Laundry Sink Faucets

Faucets provide water for washing laundry and fabrics in commercial and residential laundry facilities. These chrome-finish faucets have a short low-arc-spout and two handles. **Centerset Faucets** install onto horizontal (deck-mount) or vertical (wall-mount) surfaces with two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. **Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. ADA Compliant.



Deck-Mount
American Standard
No. 448N36



Deck-Mount
T&S
No. 5NRE9



Wall-Mount
T&S
No. 5NRF5



Wall-Mount
Zurn
No. 46CE16

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	Mfr. Model	Item No.
Centerset Deck-Mount									
American Standard	7074	Lever	Cast Brass	1.50 gpm	Laminar	7½"	4.6"	7074240.002	**448N36**
T&S Brass	—	Lever	Brass	2.20 gpm	Aerated	6"	—	B-1120	**5NRE8**
	—	Lever	Brass	2.20 gpm	Aerated	6"	6⅛"	B-1110	**5NRE9**
	—	Lever	Brass	2.20 gpm	Aerated	8"	6¾"	B-1121	**4XKJ9**
	—	Lever	Brass	18.39 gpm	Aerated	12"	10"	B-0221	**4XKK5**
	—	Lever	Brass	18.39 gpm	Aerated	18"	12"	B-0220	**4XKK6**
	—	Lever	Brass	23.09 gpm	Aerated	6"	8"	B-0222	**4XKK4**
Centerset Wall-Mount									
T&S Brass	—	Lever	Brass	2.20 gpm	Aerated	6"	5⁷⁄₁₆"	B-1115	**5NRF5**
	Big-Flo	Cross	Brass	44.27 gpm	Aerated	12"	8⅛"	B-0290	**5NRF2**
Widespread Wall-Mount									
T&S Brass	—	Lever	Brass	2.20 gpm	Aerated	6"	—	B-0230-01	**5NRF1**
	—	Lever	Cast Brass	23.09 gpm	Aerated	12"	7½"	B-0231	**5NRF0**
Zurn	AquaSpec	Lever	Brass	0.50 gpm	Aerated	9½"	6¾"	Z843J1-XL-3F	**46CE16**

Service Sink Faucet with Eyewash

Eyewash (No. 2WLL7) is attached directly to faucet's cold water integral stop port. Faucet and eyewash can operate independently. Includes eyewash, drench hose with twin plastic spray heads, and wall-mount bracket. Chrome finish.



No.
2WLL7



No.
3HEP9

Series	Flow Rate	Faucet Spout Shape	Connection	No. of Holes	Mounting Hole Center to Center	Spout Length	Mfr. Model	Item No.
Service Sink Faucet with Eyewash								
Eyesaver	2.66 gpm	Straight	½" FNPT	2	8"	9"	SEF-9000	**2WLL7**

Description	Mfr. Model	Item No.
Accessories		
Eyewash Spray Head Assembly (SEF1800's)	RPG38-0388	**4NGX7**
Flip Top Dust Covers	RPG07-0104	**3HER1**
Sprayhead Assembly (SEF-490/495)	RPG38-0390	**3HEP9**
Seal Replacement Kit for SEF-1800	RPG49-0003	**4NGX4**

Scan. Order. Done.
Details on page A1.

For information on faucet spout shapes, see page 2733.



Low-Arc-Spout
Chicago Faucets
No. 26Y233



Straight-Spout
American Standard
No. 41H839



Straight-Spout
Moen
No. 40D653



Straight-Spout
Speakman
No. 6MPF5



Straight-Spout
Zurn
No. 24A613



Gooseneck-Spout
Chicago Faucets
No. 26Y275

CHICAGO FAUCETS a Geberit company · MOEN Buy it for looks. Buy it for life.® · American Standard · SPEAKMAN · ZURN

Two-Hole Wall-Mount Service Sink Faucets

Faucets are used for frequent, heavy use in maintenance areas for filling buckets and other maintenance tasks. Install new faucets or replace existing faucets. **Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. **Centerset Faucets** install into walls or vertical surfaces that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. Chrome finish.

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Max. Mounting Hole Center Distance	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout										
Widespread										
Chicago Faucets	445	Lever	Cast Brass	2.20 gpm	8"	12"	5⅜"	Yes	445-L12ABCP	**26Y233**
Centerset										
Moen	Chateau	Dome Lever	Brass	2.20 gpm	4"	5⁷⁄₁₆"	6⅝"	Yes	74998	**4ZF68**
Straight-Spout										
Widespread										
American Standard	8344	Lever	Brass	16.00 gpm	8"	10¼"	—	Yes	8344212.004	**29RT22**
	8350	Lever	Cast Brass	15.00 gpm	8"	6¾"	—	Yes	8350243.004	**41H839**
	8351	Lever	Cast Brass	15.00 gpm	8"	7¼"	—	Yes	8351076.004	**41H840**
Chicago Faucets	—	Lever	Cast Brass	12.00 gpm	8"	2⅛"	—	Yes	305-RCF	**5E962**
	—	Lever	Cast Brass	12.00 gpm	8"	2⅜"	4⅞"	Yes	305-VBRRCF	**2P946**
	—	Lever	Cast Brass	12.00 gpm	8"	5¾"	4⅛"	Yes	897-RCF	**2P954**
	—	Lever	Cast Brass	12.00 gpm	8"	5⅝"	5¾"	Yes	886-CP	**2LYP2**
	—	Lever	Cast Brass	2.20 gpm	8"	6"	—	Yes	445-ABCP	**3TFH5**
Moen	M-Dura	Lever	Brass	2.20 gpm	8"	4"	—	Yes	8230	**40D653**
Speakman	Commander	Cross	Brass	14.00 gpm	8"	9"	—	No	SC-5811-RCP	**6MPF5**
Zurn	AquaSpec	Lever	Brass	0.50 gpm	8"	6½"	4⅛"	No	Z843M1-XL	**24A613**
Gooseneck-Spout										
Centerset										
Chicago Faucets	—	Lever	Cast Brass	1.50 gpm	4"	3⅜"	7⅝"	Yes	225-ABCP	**26Y275**

Low-Arc-Spout
T&S
No. 4XKK1



Gooseneck-Spout
American Standard
No. 4THR1



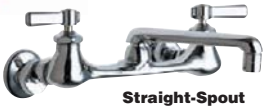
Gooseneck-Spout
Delta
No. 4NLL4



Gooseneck-Spout
Advance Tabco
No. 3KJU8



Straight-Spout
Chicago Faucets
No. 26Y239



Gooseneck-Spout
Zurn
No. 4JPC6



T&S · American Standard · CHICAGO FAUCETS a Geberit company · DELTA see what Delta can do · ZURN · ADVANCE TABCO

Multipurpose Faucets

Simple two handle faucet designs are used in many different types of locations, including kitchens, bathrooms, break rooms, and hospitals. Chrome finish. **Two-Hole Centerset Faucets** install onto sinks, counters, walls, or other vertical or horizontal surfaces that have two centered holes that are 4" apart when measured from center-of-hole to center-of hole. **Two-Hole Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. **Three-Hole Widespread Deck-Mount Faucets** install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Two-Hole Centerset Deck-Mount									
Low-Arc-Spout-Spout, Lever Handle									
T&S Brass	—	Brass	2.20 gpm	Aerated	12"	8⅛"	Yes	B-1123	**4XKK1**
	—	Brass	2.20 gpm	Aerated	8"	6¾"	Yes	B-1111	**4XKJ8**
Gooseneck-Spout, Wristblade Handle									
American Standard	Monterrey	Cast Brass	1.50 gpm	Aerated	5"	6¾"	Yes	7500170.002	**4THR1**
Chicago Faucets	894	Cast Brass	2.20 gpm	Aerated	3½"	9⅜"	Yes	894-317ABCP	**26Y232** *
	895	Cast Brass	1.50 gpm	Laminar	5¼"	11⅛"	Yes	895-317GN2FCAB	**26Y188**
	895	Cast Brass	2.20 gpm	Aerated	3½"	9⅜"	Yes	895-317ABCP	**3TFJ3**
	1100	Cast Brass	2.20 gpm	Aerated	5¼"	12⅛"	Yes	1100-G2E3-317AB	**26Y191**
Delta	Delta Commercial	Cast Brass	1.50 gpm	Aerated	4½"		Yes	27C4842	**4NLL4**
T&S Brass	—	Brass	2.20 gpm	Aerated	3¾"	9½"	Yes	B-0892	**5NRE5**
Zurn	AquaSpec	Brass	0.50 gpm	Aerated	5⅜"	12 ⅛"	Yes	Z871B4-XL-3F	**46CE23**
	AquaSpec	Brass	0.50 gpm	Aerated	8"	13 ⅜"	Yes	Z871C4-XL-3F	**46CE24**
	AquaSpec	Brass	0.50 gpm	Laminar	3½"	10 ⁷⁄₁₆"	Yes	Z812A4-XL-FC0.5	**48UL49**
	AquaSpec	Brass	2.20 gpm	Aerated	11 ⁵⁄₁₆"	11 ⅜"	Yes	Z812B4-XL	**4JPC5**
	AquaSpec	Brass	2.20 gpm	Aerated	5⅜"	12 ⅛"	Yes	Z871B4-XL	**41J488**
Two-Hole Centerset Wall-Mount									
Low-Arc-Spout-Spout, Lever Handle									
T&S Brass	—	Brass	2.20 gpm	Aerated	12"	7⅜"	Yes	B-1128	**4XKK2**
	—	Brass	23.09 gpm	Aerated	6"	5⅝"	Yes	B-0232	**4XKK3**
Gooseneck-Spout, Lever Handle									
Advance Tabco	Heavy Duty	Brass	0.50 gpm	Aerated	3½"	8⅜"	No	K-59	**3KJU8**
Two-Hole Widespread Wall-Mount									
Straight-Spout, Lever Handle									
Chicago Faucets	540	Cast Brass	2.20 gpm	Aerated	6"	2"	Yes	540-LDXKABCP	**26Y239**
	540	Cast Brass	2.20 gpm	Aerated	6"	2"	Yes	540-LDABCP	**26Y304**
Gooseneck-Spout, Wristblade Handle									
Chicago Faucets	631	Cast Brass	1.50 gpm	Aerated	3½"	8¾"	Yes	631-E35RABCP	**48YD73**
	631	Cast Brass	2.20 gpm	Aerated	3½"	8¾"	Yes	631-ABCP	**26Y198**
Three-Hole Widespread Deck-Mount									
Gooseneck-Spout, Wristblade Handle									
American Standard	Monterrey	Cast Brass	1.50 gpm	Aerated	5"	6½"	Yes	6540170.002	**5UTL2**
	Monterrey	Cast Brass	1.50 gpm	Aerated	8"	8"	Yes	6409170.002	**24PR24**
	Monterrey	Cast Brass	1.50 gpm	Laminar	8"	8"	Yes	6409180.002	**24PR25**
Chicago Faucets	786	Cast Brass	1.50 gpm	Aerated	5¼"	11⅝"	Yes	786-HGN2AE35AB	**48YD83**
	786	Cast Brass	1.50 gpm	Laminar	5¼"	11⅝"	Yes	786-GN2FCABCP	**3TFH9**
	786	Cast Brass	2.20 gpm	Aerated	3½"	10 -1/8"	Yes	786-GN1AE3ABCP	**3TFH7**
	786	Cast Brass	2.20 gpm	Aerated	5¼"	11⅝"	Yes	786-E3ABCP	**3TFH8**
	786	Cast Brass	2.20 gpm	Laminar	5¼"	11⅝"	Yes	786-E29ABCP	**6XAF5**
	786	Cast Brass	2.20 gpm	Laminar	8"	11⅝"	Yes	786-GN8AE29ABCP	**5UTV0**
T&S Brass	—	Brass	2.20 gpm	Aerated	5¾"	10 ¹¹⁄₁₆"	Yes	B-2867-04	**5NRE6**
	—	Brass	2.20 gpm	Spray	10¾"	10 ¹¹⁄₁₆"	No	B-2865-04	**4XKK9**
	—	Brass	2.20 gpm	Spray	10 ¹³⁄₁₆"	10⅝"	Yes	B-2866-04	**2MCT1**
Zurn	AquaSpec	Brass	2.20 gpm	Aerated	11 ⁵⁄₁₆"	11"	Yes	Z831B4-XL	**4JPC6**

** Drain with pop-up rod.*

Find even **MORE** on **Grainger.com®**

For information on faucet spout shapes, see page 2733.



Gooseneck-Spout Chicago Faucets No. 41N758



Gooseneck-Spout Watersaver Faucet No. 2DCJ1



Gooseneck-Spout Watersaver Faucet No. 2DCK1



Straight-Spout Zurn No. 46CE07

CHICAGO FAUCETS a Geberit company · WaterSaver · ZURN

Laboratory Faucets

Faucets are used for rinsing, cleaning, or filling glassware and vessels in laboratories in schools, hospitals, and research facilities. Chrome faucet finish, except No. 41N757 is PVC.

Brand	No. of Handles	Faucet Handle Material	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Single-Hole Deck-Mount										
Gooseneck-Spout, Cross Handle										
Chicago Faucets	1	Metal	Cast Brass	1.00 gpm	Nozzle	5¼"	13"	Yes	969-CTF	**41N758**
Watersaver Faucet	1	Plastic	Plastic	1.00 gpm	Nozzle	6"	13⅞"	Yes	869-BPVC	**41N757**
	1	Brass	Brass	2.00 gpm	Nozzle	6"	12½"	No	L614VB	**2DCH7**
	1	Brass	Brass	2.20 gpm	Nozzle	6"	12¾"	No	L694	**2DCK2**
	1	Plastic	Brass	2.20 gpm	Nozzle	6"	12¾"	No	L684	**3CWK4**
	2	Brass	Brass	2.00 gpm	Nozzle	6"	12½"	No	L414VB	**2DCJ1**
	2	Brass	Brass	2.20 gpm	Nozzle	6"	12¾"	No	L414	**2DCH9**
Gooseneck-Spout, Knob Handle										
Watersaver Faucet	1	Plastic	Brass	1.10 gpm	Nozzle	6"	10¾"	No	L7833	**2DCK3**
Gooseneck-Spout, Lever Handle										
Watersaver Faucet	1	—	Brass	1.10 gpm	Nozzle	6"	10¾"	Yes	L7833SC	**2DCK4**
	1	Brass	Brass	2.00 gpm	Nozzle	6"	12½"	Yes	L614VB-LE	**3CWK1**
	1	Brass	Brass	2.60 gpm	Aerated	6"	12¾"	Yes	L614-55LE	**2DCH4**
	2	Brass	Brass	3.00 gpm	Aerated	6"	12½"	Yes	L414VB55LE	**3CWJ9**
	2	Brass	Brass	3.20 gpm	Aerated	6"	12¾"	Yes	L414-55LE	**2DCH5**
Zurn	2	—	Brass	0.50 gpm	Aerated	6⅜"	13⅜"	Yes	Z826B1-XL-3F	**46CE08**
Straight-Spout, Lever Handle										
Zurn	1	—	Brass	0.50 gpm	Aerated	7"	4⅞"	Yes	Z825F1-XL-3F	**46CE07**
	2	—	Brass	0.50 gpm	Aerated	7"	5⅛"	Yes	Z826F1-XL-3F	**46CE09**
Two-Hole Centerset Wall-Mount										
Gooseneck-Spout, Cross Handle										
Watersaver Faucet	2	Brass	Brass	3.20 gpm	Aerated	6"	13"	No	L214-55WSA	**3CWK2**
Three-Hole Widespread Deck-Mount										
Gooseneck-Spout, Wristblade Handle										
Watersaver Faucet	2	Brass	Brass	3.00 gpm	Aerated	6"	10⅞"	Yes	L2224VB	**3CWK3**
	2	Brass	Brass	3.20 gpm	Aerated	6"	11⅛"	Yes	L2224	**2DCK1**

Item	For Use With	Mfr. Model	Brand	Item No.
Replacement Parts for WaterSaver Faucets				
Cold Cartridge	Left hand thread	BNV200LH-90	Watersaver Faucet	**3CWL7**
Foot Pedal Valve	L3001 / 3050 Foot-Operated Valves	BSC011	Watersaver Faucet	**3CWK8**
Foot Pedal Valve	Mfr. No. L084-55WSA and L074-55WSA	L3050	Watersaver Faucet	**2DCJ3**
Hot/Cold Cartridge	Faucets with four-arm handles	BNV200	Watersaver Faucet	**3CWL5**

Item	For Use With	Mfr. Model	Brand	Item No.
Replacement Parts for WaterSaver Faucets (Cont.)				
Hot Cartridge	Right hand thread	BNV200-90	Watersaver Faucet	**3CWL6**
Spout	For Watersaver Laboratory Faucets, 11-1/8"H	L084-55WSA	Watersaver Faucet	**2DCJ4**
Spout	For Watersaver Laboratory Faucets, 9"H	L074-55WSA	Watersaver Faucet	**2DCJ5**
Vacuum Breaker Kit	Repair Kit for L100, L101, L103	RK100R	Watersaver Faucet	**3CWL3**

SUPPLIER DIVERSITY · SANI-LAV®

Washdown Nozzles and Fittings

- Rated at 150 psi, up to 200°F

Designed for use in food processing and food service applications. Variable spray is trigger controlled and shuts off instantly when trigger is released.



No. 31TT30



No. 24PR62



No. 41J441



No. 31TT28



No. 18D871



No. 18D870

WASHDOWN HOSES

Tube and cover material is EPDM and textile reinforcement. ¾" GHT stainless steel female inlet and ¾" swivel male on other end.

Rated at 300 psi.

Item	Max. Pressure	Connection	Color	Construction Material*	Flow Rate (gpm)	Mfr Model	Item No.
Large Nozzles							
Hot/Cold Spray Nozzle	150 psi	¾" GHT Female Inlet	Black	Brass/S.S.	8.9	N8B20	**31TT30**
	150 psi	¾" GHT Female Inlet	Safety Orange	Brass/S.S.	8.9	N820	**31TT29**
	150 psi	¾" GHT Female Inlet	White	Brass/S.S.	8.9	N8W20	**31TT31**
Spray Nozzle	150 psi	¾" GHT	White	Brass/S.S.	8.9	N8W	**28DV91**
Water Nozzle	150 psi	¾" GHT	Black	Brass/S.S.	8.9	N8B	**24PR63**
	150 psi	¾" GHT	Safety Orange	Brass/S.S.	8.9	N8	**24PR62**
Large Low-Flow Nozzles							
Spray Nozzle	150 psi	¾" GHT	White	Brass/S.S.	5.3	N81W	**28DV92**
Water Nozzle	150 psi	¾" GHT	Black	Brass/S.S.	5.3	N81B	**24PR65**
	100 psi	¾" GHT	Safety Orange	Brass/S.S.	5.3	N81	**24PR64**
Water Saver Hot/Cold Spray Nozzle	150 psi	¾" GHT Female Inlet	Black	Brass/S.S.	5.3	N81B20	**31TT33**
	150 psi	¾" GHT Female Inlet	Safety Orange	Brass/S.S.	5.3	N8120	**31TT32**
Mid-Sized Nozzles							
Spray Nozzle	150 psi	¾" GHT	Black	AL, Brass/ S.S.	7	N1AB	**41J439**
	150 psi	¾" GHT	Black	S.S.	7	N1SSB	**41J442**
	150 psi	¾" GHT	Black	Brass/S.S.	7	N1TB	**41J445**
	150 psi	¾" GHT	Safety Orange	AL, Brass/ S.S.	7	N1A	**41J437**
	150 psi	¾" GHT	Safety Orange	S.S.	7	N1SS	**41J440**
	150 psi	¾" GHT	Safety Orange	Brass/S.S.	7	N1T	**41J443**
	150 psi	¾" GHT	White	AL, Brass/ S.S.	7	N1AW	**41J438**
	100 psi	¾" GHT	White	S.S.	7	N1SSW	**41J441**
	150 psi	¾" GHT	White	Brass/S.S.	7	N1TW	**41J444**
	150 psi	¾" GHT Female Inlet	Yellow	Brass	7	N1Y	**46CF30**
	150 psi	¾" GHT Female Inlet	Yellow	S.S.	7	N1SSY	**46CF32**
	150 psi	¾" GHT Female Inlet	Yellow	Brass	7	N1TY	**46CF33**
Water Nozzle	100 psi	¾" GHT	Black	Brass/S.S.	7	N1B	**18D869**
	100 psi	¾" GHT	Safety Orange	Brass/S.S.	7	N1	**6XUV8**
	100 psi	¾" GHT	White	Brass/S.S.	7	N1W	**18D868**
Small Industrial Nozzles							
Spray Nozzle	100 psi	¾" GHT Female Inlet	Black	Zinc, Brass/S.S.	6.5	N2B	**31TT23**
	100 psi	¾" GHT Female Inlet	Blue	Zinc, Brass/S.S.	6.5	N2BL	**31TT25**
	100 psi	¾" GHT Female Inlet	Green	Zinc, Brass/S.S.	6.5	N2G	**31TT27**
	100 psi	¾" GHT Female Inlet	Red	Zinc, Brass/S.S.	6.5	N2R	**31TT26**
	100 psi	¾" GHT Female Inlet	White	Zinc, Brass/S.S.	6.5	N2W	**31TT24**
	100 psi	¾" GHT Female Inlet	Yellow	Zinc, Brass/S.S.	6.5	N2Y	**31TT28**
Water Nozzle	100 psi	¾" GHT	Safety Orange	Zinc, Brass/ S.S.	6.5	N2	**3NVD9**
Reinforced Small Industrial Nozzles							
Insulated	—	¾" FGHT	Black	Zinc, Brass/ S.S.	6.5	N2SB	**41J429**
Spray Nozzle	—	¾" GHT	White	Zinc, Brass/ S.S.	6.5	N2SW	**41J428**
Water Nozzle	100 psi	¾" GHT	Safety Orange	Zinc, Brass/ S.S.	6.5	N2S	**18D877**

** S.S. = Stainless Steel. AL = Aluminum.*

Description	Mfr Model	Item No.
Large Nozzle Repair Parts		
Handle Repair Kit	N8HR	**28DV96**
Barrel Cartridge Replacement	N8BR	**28DV97**
Insulated Cover, Safety Orange	N8OC	**28DV93**
Insulated Cover, Black	N8BC	**28DV94**
Insulated Cover, White	N8WC	**28DV95**
Mid-Sized Nozzle Repair Parts		
Handle, Stainless Steel	N1HR	**18D871**
Barrel Cartridge Repair Kit, Stainless, Brass	N1BR	**18D870**
Barrel Cartridge Repair Kit, Stainless Steel	N1BRS	**28DV98**
Nozzle Replacement Insulation Cover, Orange	N1OC	**41J447**
Nozzle Replacement Insulation Cover, White	N1WC	**41J449**
Garden Hose Washer	W12	**46CF29**

Description	Mfr Model	Item No.
Foamers and Sanitizers		
Foamer, 48 oz. Capacity	N2F48	**41J430**
Foamer, 96 oz. Capacity	N2F	**18D865**
Sanitizer, 48 oz. Capacity	N2FS4	**41J432**
Sanitizer, 96 oz. Capacity	N2FS	**41J431**
Replaceable Coupler	N2FC	**41J433**
Foamer Lid Assembly, 48 oz.	N2F48L	**41J435**
Foamer Lid Assembly, 96 oz.	N2FL	**18D866**
Replaceable Metering Tip Kit	N2FM	**18D867**
Hot and Cold Water Mixing Station		
Brass w/Gate Valves	M1	**18D876**

Description	Connection (in.)	Brass Mfr Model	Brass Item No.	Stainless Steel Mfr Model	Stainless Steel Item No.	Brass and Stainless Steel Mfr Model	Brass and Stainless Steel Item No.
Swivel Hose Adapters							
360° Swivel	½" Hose Barb x ½" MNPT	—	—	N25S	**53PZ68**	—	—
	½ Hose Barb, ¾ MGHT	—	—	N33S	**53PZ71**	—	—
	⅝" Hose Barb x ½" MNPT	—	—	N26S	**53PZ69**	—	—
	⅝ Hose Barb, ¾ MGHT	—	—	N34S	**53PZ72**	—	—
	¾" Hose Barb x ½" MNPT	—	—	N27S	**53PZ70**	—	—
	¾ Hose Barb, ¾ MGHT	—	—	N35S	**53PZ73**	—	—
Swivel	½" Hose Barb x ½" MNPT	—	—	—	—	N21	**24PR66**
	¾" FGHT x ¾" MGHT	—	—	N17S	**46CF39**	—	—
Swivel, Trigger Lock Ring	½" Hose Barb x ½" MNPT	—	—	N21S	**24PR67**	—	—
	⅝" Hose Barb x ½" MNPT	—	—	N22S	**24PR69**	N22	**24PR68**
	¾" FGHT x ⅜" MNPT	N12	**18D882**	N12S	**46CF38**	—	—
	¾" GHT x ½" NPT	—	—	N11S	**18D881**	—	—
	¾" Hose Barb x ½" MNPT	N15	**18D883**	N15S	**18D884**	—	—
	¾" Hose Barb x ¾" MGHT	N20	**18D887**	N20S	**18D888**	—	—
	¾" FGHT x ½" MNPT	N11	**18D880**	—	—	—	—
	¾" FGHT x ¾" MGHT	N17	**6XUW0**	—	—	—	—
Non-Swivel Hose Adapters							
Non-Swivel	½" MNPT x ¾" Hose Barb	N14	**28DW01**	N14S	**46CF41**	—	—
	¾" FGHT x ½" MNPT	N13	**28DW02**	N13S	**46CF40**	—	—
	¾" FNPT x ¾" MGHT	N31	**53PZ64**	N31S	**53PZ65**	—	—
	¾" MGHT ¾" MNPT	—	—	H26S	**53PZ74**	—	—
	¾" MGHT x ¾" MNPT	H26	**46CF27**	—	—	—	—
Hose Accessories							
On/Off	¾" FGHT x ¾" MGHT	N16	**6XUV9**	N16S	**28DW03**	—	—
Quick Connect / Disconnect	½" MNPT x ¾" FGHT	N18	**46CF42**	N18S	**46CF43**	—	—
	½" MNPT x ¾" FNPT	N24	**46CF46**	N24S	**46CF47**	—	—
	¾" FGHT x ¾" MGHT	N19	**18D885**	N19S	**18D886**	—	—
	¾" FGHT x ¾" MNPT	N28	**53PZ75**	N28S	**53PZ76**	—	—
	¾" MGHT x ¾" FNPT	N23	**46CF44**	N23S	**46CF45**	—	—

Pipe Size	L	Safety Orange Mfr Model	Safety Orange Item No.	White Mfr Model	White Item No.
Washdown Hoses, -20° to 200°F					
1⅛"	25 ft.	H253	**53XV12**	H25W3	**53XV16**
	50 ft.	H503	**53XV13**	H50W3	**53XV17**
	75 ft.	H753	**53XV14**	H75W3	**53XV18**
	100 ft.	H1003	**53XV15**	H100W3	**53XV19**

For information on faucet spout shapes, see page 2733.



Low-Arc-Spout
No. 2LYP9



Straight-Spout
No. 2LYJ3

CHICAGO FAUCETS
a Geberit company

Single-Hole Wall-Mount Inside Sill Faucets

Faucets install at about windowsill height on the inside of a building. Hoses can be attached for washdown applications. Cast-brass body with chrome finish, laminar flow outlet, and one blade handle.

Brand	Water Inlet Connection Size	Faucet Handle Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Chicago Faucets	½ in	Metal	7.00 gpm	2⅜"	4"	No	952-12CP	**2LYP9**
	¾ in	Metal	7.00 gpm	2⅜"	4"	No	952-CP	**2P955**
Straight-Spout								
Chicago Faucets	½ in	Metal	7.00 gpm	1⅞"	—	No	293-CP	**5E963**
	½ in	Metal	7.00 gpm	1⅞"	—	Yes	293-RCF	**2LYJ3**
	¾ in	Metal	7.00 gpm	1⅞"	—	No	387-CP	**2LYJ8**



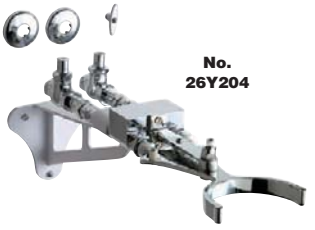
No. 26Y299



No. 6XAE5



No. 5UTU7



No. 26Y204

CHICAGO FAUCETS
a Geberit company

Water Supply Stops and Pedals

Water supply stops shut off water supply to faucets, toilets, etc. Foot pedals allow hands-free faucet operation. Tempering valve controls water flow, pressure, and temperature from a faucet spout.

Description	Conn. (In.)	Mfr. Model	Item No.
Water Supply Stops			
Straight Stop Fitting	½ FNPT	45-ABCP	**26Y299**
Straight Stop Loose Key Fitting	½ FNPT	45-LKABCP	**26Y284**
Multi-Turn Supply Stop	½ FNPT	442-LKABCP	**5UTU1**
Angle Stop Fitting Loose Key	½" FNPT/3/8" Compression	1013-ABCP	**6XAE5**
Angle Stop Fitting w/Supply Tube	½" FNPT/3/8" Compression	1017-ABCP	**6XAE6**
Angle Stop Fitting w/Supply Tube	½" FNPT/1/2" Compression	1006-ABCP	**6XAE4**
Faucet			
6½"L" Rigid/Swing Gooseneck Spout, 1.5 gpm, Deck Mount	½ NPSM	626-FCABCP	**6XAF3**
Foot Pedals			
Foot Pedal, Single	½ FNPT	628-ABCP	**5UTU7**
Foot Pedal, Double	½ FNPT / ⅜ FNPT	625-ABCP	**5UTU6**
Knee-Activated Valve Assembly	½ FNPT, ⅜ FNPT	745-VOABCP	**26Y204**
Combination Pedal Box	½ FNPT / ⅜ FNPT	834-EPABCP	**26Y246**
Tempering Valve			
Tempering Valve, ⅜" Compression	⅜" Compression	131-ABNF	**6XAH7**



No. 6MT85



No. 10C483

T&S

Faucet Sprayer Pre-Rinse Hose Reels

Pull hose out to desired length and it stays in position; reel automatically retracts with a slight tug. With ⅜" FNPT inlet, heat-resistant handle, and adjustable hose bumper. FNPT connection.

Reel Length	Connec. Size	Flow Rate	Includes	Mfr. Model	Item No.
15 ft.	⅜"	3.70 gpm	Multifit Bracket for Wall, Ceiling or Under Counter Mounting, Heatresistant Handle and Adjustable Hose Bumper	B-7212-01	**6MT85**
30 ft.	⅜"	4.28 gpm	Spray Valve	B-7222-C01	**10C483**
35 ft.	⅜"	3.89 gpm	Multifit Bracket, Hose, Heat Resistant Handle and Adjustable Hose Bumper	B-7232-01	**6MT84**



No. 13Z944



No. 29VL08



No. 29VL07



No. 45W766



No. 6NWH7



No. 6PE13

MOEN Buy it for looks. Buy it for life.® danze American Standard SPEAKMAN® TRIDENT™

Wall Mounted Showerheads and Accessories

Fit standard ½" water supply (MPT).

Description	Finish	Flow Rate	Material of Construc.	Brand	Item No.
Wall-Mount Showerheads					
3 Function, WaterSense Approved	Chrome	2.0 gpm	Brass	Danze	**29VL03**
4 Function, WaterSense Approved	Chrome	2.0 gpm	Brass	Danze	**29VL06**
5 Function	Chrome	2.2 gpm	Cast Metal	Moen	**13Z944**
5 Function	Chrome	2.5 gpm	Brass	Danze	**29VL05**
5 Function	Chrome	2.5 gpm	Brass	Danze	**29VL08**
5 Function, WaterSense Approved	Chrome	2.0 gpm	Brass	Danze	**29VL07**
One Spray Setting, Standard Plastic Nozzle	White	1.75 gpm	Plastic	Trident	**48LX76**
Shower Head	Brushed Nickel	2.0 gpm	Plastic	Speakman	**45W766**
Spotclean Showerhead for Reliant	Chrome	2.5 gpm	Metal, Plastic	American Standard	**6NWH7**

Description	Finish	Material of Construc.	Brand	Item No.
Wall-Mount Shower Arms				
6" with Flange	Chrome	Stainless Steel	Trident	**6PE23**
9" Shower Arm	Chrome	Brass	Trident	**6NU13**
Accessories				
59" Hose	Brushed Nickel	Stainless Steel + PVC (inner hose)	Trident	**6PE13**
59" Hose	Chrome	Mylar+ Brass	Trident	**6PE12**
59" Hose	White	PVC	Trident	**6PE11**
72" Hose	Brushed Nickel	Stainless Steel + PVC (inner hose)	Trident	**6PE16**
72" Hose	Chrome	Mylar	Trident	**6PE15**
72" Hose	White	PVC	Trident	**6PE14**
Right Angle Bracket, Arm Mount	Chrome	Plastic	Trident	**6PE20**

Showerheads

TRIDENT™ MOEN Buy it for looks. Buy it for life.® American Standard SPEAKMAN® SLOAN CHICAGO FAUCETS a Geberit company ZURN DELTA see what Delta can do Encore by Component Hardware

- Chrome finish, except Encore items are white

Trident®— Showerheads are solid brass and meet ANSI A112.18.1M.

Moen—Nonmetallic spray face and shell with a brass swivel ball assembly.

American Standard—Turbine spray has a flow rate of 1.5 gpm, to reduce water use by up to 40%.

Speakman—Deliver a fully-customizable shower experience. The pressure-compensating plunger system helps optimize low water pressure for more efficient performance. Nos. 2WLN7 and 6MPG1 have lower flow rate to conserve water.

Sloan—Each features spring-loaded spray disk to prevent particle clogging. Nos. 5E548 and 4FEZ4 have a thumbscrew volume control. No. 5E547 features an adjustable spray direction and mounting plate with vandal-resistant screws.

Chicago Faucets—Solid brass construction with chrome-plated finish. Fixed and adjustable heads.

Zurn—Nos. 6RKG7 and 6RKH2 are self-cleaning; No. 6RKH2 adds a flow compensator to maintain a constant flow rate. No. 6RKG5 is vandal resistant.

Encore—SaniShower® with SANIGUARD® antimicrobial product protection utilizes a patented, inorganic silver-ion technology to inhibit the growth of non-public health bacteria, molds and mildews that can cause odors, staining and product deterioration on the treated surfaces of the product itself, and to keep the treated surfaces cleaner and fresher between routine cleanings. This product is not a disinfectant and does not protect the user or others against food-borne illnesses or disease-causing bacteria, viruses, or germs. Always use proper hygiene and cleaning procedures.

Delta, No. 4NLN2—H_2Okinetic Technology® creates a warm water "blanket" using 36% less water than standard showerheads.



No. 2WLN5



No. 2YDV7

Description	Connection	Connec. Type	ADA Compliant	Flow Rate (gpm)	Face Dia.	Material of Construc.	Brand	Mfr. Model	Item No.
Showerheads									
Handheld									
Five Spray Settings, Massage Setting	½"-14 NPT	—	No	1.75	3½"	Plastic	Trident	48LY01	**48LY01**
Moen Commercial® Handheld Showerhead	½"	—	Yes	1.50	3⁵⁄₁₆"	Plastic	Moen	8349EP15	**15A829** *
Water Saving, Hand Showerhead	½"	NPSM	Yes	1.50	—	Metal, Plastic	Amer. Std.	1660766.002	**448N46**
Wall Mounted									
3-Function Showerhead	½"	IPS	No	1.75	4"	Plastic	Moen	3233EP	**4NEF1**
5-Jet Fixed Showerhead	½"	NPT	No	2.50	4½"	Plastic	Speakman	S-3011	**15F374**
5-Jet Fixed Showerhead	½"	NPT	No	2.50	5½"	Plastic	Speakman	S-3010	**15F343**
Anystream® 4-Jet, 32 Spray Adjustable	½"	NPT	No	1.75	2¼"	Plastic	Speakman	S-2253-E175	**2WLN7**
Anystream® 5-Jet, 50 Spray Adjustable w/Massage	½"	NPT	No	2.50	4⅛"	Plastic	Speakman	S-2005-HB	**2WLN5**
Anystream® 6-Jet, 48 Spray Adjustable, Solid Brass	½"	NPT	No	2.00	2¹³⁄₁₆"	Plastic	Speakman	S-2252-E2	**6MPG1**
Anystream® 6-Jet, 48 Spray Adjustable, Solid Brass	½"	NPT	No	2.50	2¹³⁄₁₆"	Brass	Speakman	S-2252	**6MPG0**
Cone within Cone Self-Cleaning Showerhead, Cast Brass	½"	MIPS	No	2.50	2½"	Brass	Sloan	AC11-2.5	**5E548**
Cone within Cone Self-Cleaning Showerhead, Cast Brass	½"	NPT	No	2.00	2½"	Brass	Sloan	AC11-2.0	**4FEZ4**
FloWise® Single Function Water Saving	½"	NPT	No	1.50	1⅞"	Metal, Plastic	Amer. Std.	1660710.002	**3KTD7** *
FloWise® Single Function Water Saving, Vandal Resistant	½"	NPT	No	1.50	1⅞"	Metal, Plastic	Amer. Std.	1660711.002	**6NWE4** *
Moen Commercial®, 5-Function Showerhead	½"	FNPT	Yes	2.00	4"	Plastic	Moen	3855EP	**49AU87**
Showerhead with Ball Joint, Brass	½"	FNPT	No	2.50	1¼"	Brass	Chicago	620-CP	**4KTH5**
Temp-Gard® Institutional Showerhead	½"	FNPT	No	2.50	⅝"	Brass, Chrome	Zurn	Z7000-I2	**6RKG5**
Temp-Gard® Showerhead w/Volume Control	½"	FNPT	No	2.50	1¾"	Brass, Chrome	Zurn	Z7000-S6	**6RKG7**
Wall Showerhead	½"	NPT	No	2.00	5½"	Plastic	Speakman	S-3010-E2	**22FD76**
Water-Efficient Showerhead	½"	—	No	1.60	3¼"	Brass	Delta	RP46384	**4NLN2**
Water Saver Showerhead	½"	FNPT	No	1.50	2⅝"	Brass, Chrome	Zurn	Z7000-S9	**6RKH2**
Showerheads and Accessories with SANIGUARD® Product Protection									
Handheld									
Handheld Showerhead without Shutoff	½"-14	MNPS	Yes	2.00	2¹³⁄₁₆"	Plastic	Encore	SS10-0100	**2YDV7**
Handheld Showerhead with Shutoff	½"-14	MNPS	Yes	2.00	2¹³⁄₁₆"	Plastic	Encore	SS10-0200	**2YDV8**
Institutional Showerheads									
Wall Mounted									
Institutional Self-Cleaning Showerhead, Vandalproof, Cast Brass	½"	MIPS	No	2.50	4⅜"	Brass	Sloan	AC450-2.5	**5E547**
Institutional Showerhead, Cast Brass	½"	FNPT	No	2.00	1¼"	Brass	Chicago	621-CP	**5UTU5**
Ligature-Resistant, Wall Mount, 60 Spray	½"	NPT	No	2.50	2"	Brass	Speakman	S-2460	**2WLN8**

**** EPA WaterSense certified.***

Shower and Tub Faucets

MOEN Buy it for looks. Buy it for life.® DELTA see what Delta can do TRIDENT™ Bradley CHICAGO FAUCETS a Geberit company POWERS™

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Moen—Each features adjustable temperature limit stop. No. 4FA79 includes handheld shower, 30" slide bar, drop ell, dual check valve, 69" metal hose, and hardware including vandal-resistant screws.

Delta—The 3-function Multichoice Universal valves allow process changes to be made to the shower at any time, without altering behind-the-wall plumbing.

Bradley—Positive shutoff of hot supply when cold supply is shut off. Adjustable set point within temperature range. Dirt and lime resistant.

Trident®—No. 6PB38 includes a showerhead, arm, flange and tub spout, and an extra acrylic knob.

Chicago Faucets—Temperature limit stop protects against fluctuations in water pressure and temperature to prevent scalding.

Powers—Thermostatic valves respond almost instantly to dramatic pressure changes. Self-contained cartridge simplifies maintenance and repair.



Valve w/Stop
No. 4FA84



No. 1ZMG8

Item	Description	Flow Rate	ADA Compliant	Connec. (in.)	Handle Type	Material of Construc.	Brand	Mfr. Model	Item No.
Pressure Balancing Rough-In Valves (Valve Only)									
Tub and Shower Valve	Valve w/Stops	No	—	½	None	Brass	Moen	2570	**4FA84**
Shower Valve	Valve Less Stops	No	No	½	None	Brass	Delta	R10000-UN	**4NLL6**
Shower Valve	Valve w/Stops	No	No	½	None	Brass	Delta	R10000-UNWS	**4NLL5**
Pressure Balancing Tub/Shower Valve with Trim Kit									
Shower Head Kit	Valve with Shower Trim Kit	2.50 gpm	Yes	½ Solder	Lever	Brass	Trident	6PB34	**6PB34**
Shower Head Kit	Valve with Tub/Shower Trim Kit	2.50 gpm	Yes	½ NPT	Lever	Brass	Trident	6PB38	**6PB38**
Shower Head Kit	Chateau® Posi-Temp® Valve w/Shower Trim Kit, Chrome	2.50 gpm	Yes	½ Solder	Lever	Brass	Moen	L2352	**4ZF99**
Shower System w/Handheld Showerhead									
Shower Head Kit	Pressure Balancing Shower Valve w/Handheld Shower System	2.50 gpm	Yes	½ Solder	lever	Brass	Moen	8346	**4FA79**
Shower Head Kit	Universal Shower Trim w/Slidebar, Hand Shower Grab Bar Combo, & Vandal Resistant Handle (No Valve)	1.50 gpm	Yes	½	Lever	Brass	Delta	T13H152	**6NRF8**
Trim Kits									
Tub and Shower Trim	Monitor® Scald-Guard® Valve Trim Only	No	Yes	—	Lever	Brass	Delta	T13020	**4NLL9**
Shower Head Kit	Monitor® Scald-Guard® Shower Trim Kit	2.00 gpm	Yes	—	Lever	Brass	Delta	T13220	**4NLL8**
Tub/Shower Valves (Do Not Include Showerhead or Tub Spout)									
Tub and Shower Valve	Thermostatic Shower Valve w/Stops	4.50 gpm	Yes	½ NPT	Lever	Bronze	Bradley	S59-2005	**1ZMG8**
Thermostatic/ Pressure Balancing Valve	Thermostatic/Pressure-Balancing Tub/Shower Valve w/Stops	No	—	½ FNPT	Lever	Brass	Chicago Faucets	2500-VOCCP	**2LYJ1**
Tub and Shower Valve	Exposed Thermostatic/Pressure-Balancing Shower Valve	No	—	½ NPT	Lever	Brass	Powers	E423-0000	**4KUF8**
Tub/Shower Valve with Trim Kit									
Shower Head Kit	Pressure-Balancing Valve with Shower Trim Kit	4.60 gpm	Yes	½ NPT	Lever	Brass	Powers	P910Gk1	**2ZMN5**
Shower Head Kit	Pressure-Balancing Valve w/Shower Trim Kit, Handheld Showerhead w/Metal Hose and Wall Hooks, Diverter, and Vacuum Breaker	2.50 gpm	Yes	½ NPT	Lever	Brass	Powers	P910GK1-5YW	**2ZMN6**


No. 1MEW2


No. 4ARZ7

Showers and Shower Floors

Individual Wall Showers, Preassembled— Pivoting wall showers feature a hinge design for easy installation and maintenance. ½" NPT. No. 1MEW3 is barrier free.

Freestanding Shower Stall—Knockdown construction allows easy portability. Includes shower valve, curtain, self-draining soap dish, and shampoo container. Slip-resistant floor includes drain. Mold- and mildew-resistant.

Description	W	H	D	Brand	Item No.
Individual Wall Showers, Preassembled, Stainless Steel					
Wall Mounted Showerhead, 2.50 gpm	6¾"	22¾"	3⅛"	Bradley	**1MEW2**
Handheld Showerhead, 2.50 gpm	6¾"	37⅝"	3⅛"	Bradley	**1MEW3**

Commander® Shower Head Kit—Has chrome-plated, vandal-resistant 4-arm handles with color-coded indexes. Reversible valve body and ¼-turn ceramic cartridges. Galvanized goose-neck with support strap.

Terrazzo Shower Floors— Terrazzo material is precast marble chips cast in white portland cement. Include a stainless steel drain body, galvanized steel flange, and a removable stainless steel strainer plate. No. 6NWU7 is ADA compliant and meets ASME and ANSI.

Description	Connection	W (in.)	H (in.)	D (in.)	Brand	Item No.
Showers, Shower Head Kit						
Freestanding Shower Stall, 2.5 gpm	(M)NPT	32	74¾	32	Mustee	**4ARZ7**
Commander® Shower Head Kit, 6" Centers, ADA Compliant, 2.0 gpm	½"	8¼	23⅞	7¼	Speakman	**4NGW9**
Terrazzo Shower Floors						
Shower Floor, Single Threshold	2" Drain	36	4	32	Fiat Products	**6NWU8**
	2" Drain	36	4	36	Fiat Products	**6NWU7**


No. 46Y262

Hookless® Shower Curtains

Patent 5,186,232

Feature innovative Flex-On® rings that allow shower curtain installation or removal in less than 1 min. Polyester material is water-repellent with ultrasonic bottom hem. PEVA material is an alternative to traditional vinyl, manufactured without chlorine. RePET material is made from recycled drinking water bottles.

Color	Material	W	L	Item No.
Beige	Polyester	71"	74"	**1ATT5**
	Polyester with Vinyl Bubble Look Window	71"	77"	**1ATT6**
White	RePET	71"	77"	**46Y258**
	PEVA	71"	74"	**46Y259**
	Polyester	42"	74"	**46Y262**
	Vinyl	42"	74"	**46Y263**


No. 2MWG3

Shower Curtains

- 72"L
- Include aluminum grommets

All sides are hemmed. White vinyl and nylon vinyl-laminated are antibacterial.

Color	Material	36" Wide Item No.	42" Wide Item No.	72" Wide Item No.	108" Wide Item No.
Translucent	Vinyl	**4EEX5**	**4EEX6**	**4EEX7**	**4EEX8**
White	Cotton Duck	**4EEY7**	**4EEY8**	**4EEY9**	—
	Nylon	**4EEY4**	**4EEY5**	**4EEY6**	—
	Nylon Vinyl	**4EEZ5**	**2MWG3**	**2MWG4**	**4EEZ6**
	Polyurethane Coated Polyester	**4EEZ1**	**4EEZ2**	**4EEZ3**	**4EEZ4**
	Vinyl	**4EEX9**	**4EEY1**	**4EEY2**	**4EEY3**


No. 2VAL9


No. 1ECL1


No. 4EEW7

Shower Rods and Hooks

- Include mounting hardware, except Nos. 23MF96 and 23MF97.

Rod or Track Material	Finish*	Rod Dia.	Rod or Track Length	Brand	Item No.
Shower Rods					
Brass, 304 Stainless Steel	CP	1"	36 in	GA	**4EEW2**
	CP	1"	42 in	GA	**4EEW3**
Stainless Steel	CP	1"	60 in	GA	**2VAL9**
	CP	1"	72 in	GA	**2VAN1**
	BSS	1"	60 in	Franklin	**29WJ37**
	BSS	1"	72 in	Franklin	**29WJ38**
Aluminum	B	1"	60 in	Taymor	**23MF96**
	B	1"	72 in	Taymor	**23MF97**

Item	Finish*	W	Brand	Item No.	Pkg. Qty.
Shower Curtain Hooks					
Shower Curtain Hooks	SS	1½"	GA	**1ECL1**	13
Shower Curtain Hooks w/Roller Balls	CP	1¾"	GA	**4EEW6**	13
Shower Curtain Hooks w/Wheels	AP	1¾"	GA	**4EEW7**	13
Rod Flanges					
Rod Flanges	CP	2⁵⁄₃₂"	GA	**4EEW8**	2
Adjustable Rod Flanges	PC	2¼"	Taymor	**23MF98**	1

**** AP=anodized plated, B=bright aluminum, BSS=bright stainless steel, CP=chrome plated, PC=polished chrome, SS=stainless steel.***


No. 1GYB2


No. 24VT80

Shower Accessories

Benches and Seats—Backrests and armrests are both reversible for right or left side. Chrome-plated aluminum frame with white polyethylene bench and backrest.

Wall Mountable Benches and Seats— Hinged seat folds up and out of the way when not in use.

Description	Frame	L	W	H	Weight Cap.	Brand	Item No.
Benches and Seats							
ADA Portable Tub Bench, White Phenolic	Stainless Steel	26 ½ in	15 in	15 ½ in to 17 ½ in	250 lb	WingIt	**15E829**
Bench, Aluminum, Plastic, Textured, White	Aluminum, Plastic	19 in	39 in	23 in	400 lb	Dmi	**52JT47**
Wall Mountable Benches and Seats, White Phenolic							
ADA L-Shape Reversible Shower Seat	Stainless Steel	26 in	22 ½ in	17 in to 19 in	800 lb	WingIt	**15E825**
ADA L-Shape Reversible Shower Seat	Stainless Steel	28 in	22 ½ in	15 ½ in to 17 ½ in	800 lb	WingIt	**24VT82**
ADA L-Shape Reversible Shower Seat	Stainless Steel	32 in	22 ½ in	17 in to 19 in	800 lb	WingIt	**15E826**
ADA Rectangular Shower Seat	Stainless Steel	24 in	15 in	17 in to 19 in	800 lb	WingIt	**15E827**
ADA Rectangular Shower Tub Seat, Fold Down, End Mount	Stainless Steel	29 in	15 in	2 ½ in	250 lb	WingIt	**15E828**
ADA Wall Mounted Shower Seat, Reversible, Hinged	Satin Finish Stainless Steel	—	34 ½ in	—	250 lb	Bradley	**1GYB2**
ADA Tub Seat, Rectangular Rear Mount with Skis	Stainless Steel	29 in	18 ½ in	4 ½ in	250 lb	WingIt	**24VT81**
ADA Tub Seat, Rectangular Rear Mount	Stainless Steel	29 in	18 ½ in	2 ½ in	250 lb	WingIt	**24VT80**
Tub and Shower Seat							
Aluminum, Plastic, Textured, White	Aluminum, Plastic	21 in	21 in	23 in	500 lb	HealthSmart	**52JT54**
Retractable Clothesline							
110" Nylon Cord	—	—	—	—	—	GA	**1ECP1**


No. 5PZF2

Faucet Repair Parts and Accessories

Description	Brand	Item No.
Cartridges		
Cold Water Cartridge, Ceramic, Brass, 2" H, fits Price Pfister/Pfister	Kissler	**45L044**
Hot Water Cartridge, Ceramic, Brass, 2" H, fits Price Pfister/Pfister	Kissler	**45L045**
Cartridge, Plastic w/Seat Washers, fits American Standard	Kissler	**45K999**
Handles and Handle Kits		
Handle, Cast Metal, w/Index Buttons and Screws, 1⅝" H, fits American Standard	Kissler	**45L006**
Handle, Cast Metal w/Set Screw, fits Delta	Kissler	**45L013**
Handle, Cast Metal, w/Set Screw, fits Moen	Kissler	**45L042**

Description	Brand	Item No.
Miscellaneous Repair Parts		
Replacement Tub Spout, Chrome For Use with Nos. 6PB38 & 6PB44	Trident	**1WYA1**
Faucet and Valve Grease	Harvey	**2WY65**
Assorted Faucet O-Ring Kit, Nitrile Rubber, 200-Pc.	Kissler	**3FLY6**
Assorted Faucet Washer Kit, Flat Rubber, 200-Pc.	Kissler	**3FLY8**
Assorted Faucet Washer Kit, Beveled Rubber, 160-Pc.	Kissler	**4EEU7**
Overflow Faceplate w/Screws, 3¼" dia., 2 Hole, Chrome	Kissler	**4EEU8**
Assorted Bibb Screw Kit, Brass, 180-Pc.	Kissler	**4EEV1**
Universal Stopper and Splashguard Kit	Kissler	**4EEV3**
Faucet Gasket Kit	Harvey	**5PA61**
Grid Drain, 1¼", Chrome	GA	**6PB68**
Cartridge for Symmons Faucets, Replaces TA-10	GA	**5PZF2**
Stems		
Hot Water Stem, w/Aquaseal Washer, Low-Lead Brass, fits American Standard	Kissler	**45L009**
Faucet Stem, Plastic, Single Lever, fits Gerber	Kissler	**45L030**

POWERS™

Powers™ Tub and Shower Repair Parts

Description	Mfr. Model	Item No.
½" IPS Type A Straight Check Stop	141-176	4KTZ8
Repair Kit	141-000	4KTZ7
Hot/Cold Cartridge	220-060	26W689
Sleeve, 2 7/16" L	220-054	26W715
Handle, Zinc	220-050	26W698
Repair Kit to Replace Check Valve	230-132	4KUA9
E-Type Angle Stops w/ Strainer - Rough Bronze	230-046	4KUA4
Balance Chamber Extractor Assembly Kit	401-202	26W706
Stem and Plate Repair Kit	401-176	4KUD4
Balancing Cartridge Kit	401-175	2ZMN1
Handle	410-448	26W696
Dial Assembly Repair Kit	410-445	26W697
Bonnet Repair Kit	410-396	26W711
Stem and Plate Replacement Kit	410-378	4KUD7
Cartridge Kit for HydroGuard® Series 400, Models 1-3	410-183	2ZML9
Shower Valve Repair Kit Powers P410	410-182	6REK8
Hot/Cold Cartridge	420-616	26W713
Handle	420-495	6REK9
Plastic Knob Kit	420-481	4KUF7
Cartridge Seal Kit	420-456	4KUF6
Bonnet Assembly	420-454	4KUF5
Wax Element, Standard	420-453	4KUF2
Cartridge Assembly	420-452	4KUF1
Upgrade Kit, High Capacity Model 9	420-451C	4KUE7
Full Upgrade Kit, High Temp., Mod 1 to 10	420-451H	4KUE8
Full Upgrade Kit, Low Temp., Mod 1 to 11	420-451L	4KUE9
Handle	420-336	26W690
Dial Assembly Repair Kit	420-335	26W693
Graphic Insert Display, Mylar	420-308	26W695



No. 6REK9

Description	Mfr. Model	Item No.
420 Lever Handle Kit	420-243	4KUE5
Dial Kit for HydroGuard® Type H	420-182	4KUE3
Hot/Cold Cartridge, 2 7/16" L	420-139	26W714
Wax Element Repair Kit	420-024	26W702
Valve Cartridge Assembly	420 451	2ZML8
Retrofit Kit for 427 Standard Temp.	427-200	4KUG3
Bonnet Assembly	427-019	4KUG2
Motor Repair Kit	480-270	26W712
Overhaul Kit	800-163	4KUG6
Lever Handle Repair Kit Powers P900	800-036	6REL1
Balance Chamber	900-259	4KUH6
Balance Chamber Repair Kit	900-240	26W699
Check Stop Repair Kit Model 3	900-050	4KUH5
Check Stop Repair Kit	900-049	4KUH4
Handle	900-036	26W692
Series 900 Internals Kit	900-032	4KUH3
Balance Chamber, Model 2	900-031	4KUH1
Balance Chamber, Model 1	900-031A	4KUH2
Soft Components Repair Kit, Model 3	900-028	4KUG8
Internal Repair Kit	800310C	26W707
HydroGuard® High-Temperature Shutoff Device	HT115	2ZMN7



No. 4KUE5



No. 2ZML8

Chicago Faucets Repair Parts

CHICAGO FAUCETS
a Geberit company

Description	Mfr. Model	Item No.
Aerators and Outlets		
Pressure Balancing Flow Control	1020-034KJKABNF	6XAH0
¾" Hose Thread Male Outlet w/ 13/16"-24 Female Inlet	E2JKRCF	3JAR1
13/16"-24 Female Pressure Compensating Outlet, 2.2 gpm	E3JKABCP	2FPL2
⅜"-18 Male Pressure Compensating Aerator w/Adapter, 2.2 gpm	E3-2JKABCP	3JAR3
13/16"-24 Female Pressure Compensating Outlet, 2.2 gpm, Vandal Resistant	E3VPJKABCP	2HXY7
⅜"-18 Male Rose Outlet, 1.5 gpm	E4JKABCP	26Y256
Laboratory Serrated End Outlet, ⅜"-18 Male	E7JKCP	3JAR9
13/16"-27 Male Pressure Compensating Outlet, 2.2 gpm	E12JKABCP	2HXY5
13/16"-27 Male Pressure Compensating Outlet, 2.2 gpm, Vandal Resistant	E12VPJKABCP	2HXY8
Inline Vacuum Breaker Outlet, ⅜" NPT Female Outlet; ⅜" NPT Male Inlet	E22JKCP	3JAL9
13/16"-27 Male Pressure Compensating Laminar Flow, 2.2 gpm	E32JKABCP	3JAR2
13/16"-27 Male Pressure Compensating Aerator Outlet, 1.5 gpm	E34JKABCP	3TEE1
13/16"-27 Male Pressure Compensating Aerator Outlet, 1.5 gpm, Vandal Resistant	E34VPJKABCP	3TEE3
13/16"-24 Female Pressure Compensating Aerator Outlet, 1.5 gpm	E35JKABCP	3TED6
13/16"-24 Female Pressure Compensating Aerator Outlet, 1.5 gpm, Vandal Resistant	E35VPJKABCP	3TED8
13/16"-24 Female Pressure Compensating Laminar Flow, 1.5 gpm	E36JKABCP	3JAR4
13/16"-24 Female Pressure Compensating Laminar Flow, 1.5 gpm, Vandal Resistant	E36VPJKABCP	3JAR5
13/16"-27 Male Pressure Compensating Laminar Flow, 1.5 gpm, Vandal Resistant	E37VPJKABCP	3JAR7
13/16"-27 Male Pressure Compensating Outlet, 0.5 gpm	E2605JKABCP	3JAM2
13/16"-24 Female Pressure Compensating Outlet w/Adapter, 0.5 gpm	E2605-5JKABCP	3JAM1
13/16"-27 Male Pressure Compensating Outlet, 0.5 gpm, Vandal Resistant	E2805JKABCP	3JAM5
13/16"-24 Female Pressure Compensating Outlet w/ Adapter, 0.5 gpm, Vandal Resistant	E2805-5JKABCP	3JAM4
Female Outlet Spout Adapter, ⅜"-18 Female Outlet; 13/16"-24 Female Inlet	K1JKABCP	26Y287
Male Inlet Spout Adapter, 13/16"-24 Male Outlet; ⅜"-18 Male Inlet	K2JKABRCF	26Y228
Male Outlet Spout Adapter, 55/64"-27 Male Outlet; 13/16"-24 Female Inlet	K4JKABCP	26Y288
Cartridges		
Control-A-Flow Cartridge, LH, Short Stem	1-100-245JKABNF	26Y264
Ceramic ¼ Turn, LH, Short Stem	1-100XKJKABNF	5UTV8
Quaturn™, LH, Short Stem	1-100XTJKABNF	5UTV6
Control-A-Flow Cartridge, RH, Short Stem	1-099-245JKABNF	26Y291
Ceramic ¼ Turn, RH, Short Stem	1-099XKJKABNF	5UTV7
Quaturn™, RH, Short Stem	1-099XTJKABNF	5UTV5
Slow-Compression, LH, Short Stem	217-XTLHJKABNF	5UTV9
Slow-Compression, RH, Short Stem	217-XTRHJKABNF	5UTW0
Control-A-Flow Cartridge, RH, Long Stem	274-X245RJKABNF	26Y263
Slow-Compression, LH, Long Stem	274-XTLHJKABNF	26Y216
Slow-Compression, RH, Long Stem	274-XTRHJKABNF	26Y296
Fast Cycle Time Closure Push Button, Push Index	333-XPSHJKABNF	26Y203
Slow Closing Push Button, Cold	333-XSLOCJKABNF	26Y253
Slow Closing Push Button, Push Index	333-XSLOPJKABNF	26Y209
Slow Closing Tip-Tap Push Button	335-XJKABNF	26Y208
Control-A-Flow Cartridge, LH, Long Stem	377-X245LJKABNF	26Y223
Control-A-Flow Cartridge, RH, Long Stem	377-X245RJKABNF	26Y236
Quaturn™, LH, Long Stem	377-XTLHJKABNF	5UTW1
Quaturn™, RH, Long Stem	377-XTRHJKABNF	5UTW2
Slow Closing Tip-Tap Push Button (Concealed Bodies)	409-XJKABNF	26Y257
Pedal Valve, Wall Mount	625-XJKABNF	26Y194
Pedal Valve, Floor Mount	628-XJKABNF	26Y248
MVP™ Metering Actuator Assembly	665-190KJKABNF	26Y193
MVP™ Actuator Assembly and Metering Valve Cartridge	667-080KJKABNF	2HXY2
MVP™ Metering with Inline Filter	671-XJKABNF	2EU68
Cam Type Knee Valve	745-XJKABNF	26Y218
Klo-Self, Short Stem	826-XJKABNF	26Y289
Cartridge Repair Kit	849-DAB	2FPK6
Quaturn™ Repair Kit	1277-DAB	2FPL5
Metermix Actuator and Unit, for Metering Faucets	3300-103KJKABNF	41N766



No. 26Y291

No. 5UTW1



No. 2HXY2



No. 2FPK8

Description	Mfr. Model	Item No.
Chicago Faucets Master Repair Kits (Supplied in Compartmentalized Steel Boxes)		
Naiad 1 Minute Repair Kit, Includes 192 Components for Maintaining Faucets with Naiad Push-Button Cartridges	820-ABNF	26Y298
Quaturn™ 1 Minute Repair Kit, Includes 4 each of Nos. 5UTV5 & 5UTV6, 1 each of Nos. 5UTW2 & 5UTW1, and 365 Components for Maintaining Quaturn™ and Slow Compression Cartridges	1273-ABNF	26Y254
Quaturn™ Junior Repair Kit, Includes 1 each Nos. 5UTV5 & 5UTV6 and 152 Components for Maintaining Quaturn™ or Slow Compression Cartridges	1276-ABNF	26Y205
Drains		
1¼" O.D. Grid Strainer Waste	327-XCP	5E994
1¼" O.D. Pop-Up Waste	1222-KJKCP	3FZT5
Handles		
4" Blade w/Cold Index	317-COLDJKCP	3JAA8
4" Blade w/Hot Index	317-HOTJKCP	3JAA9
4" Blade, Pair	317-PRJKCP	2FPL1
6" Blade, Pair	319-PRJKCP	3JAC3
2⅜" Lever w/Cold Index	369-COLDJKCP	3JAD4
2⅜" Lever w/Hot Index	369-HOTJKCP	3JAD5
2⅜" Lever, Pair	369-PRJKCP	2FPK7
3", 4-Arm Cross w/Cold Index	633-COLDJKCP	3JAF9
3", 4-Arm Cross, Pair	633-PRJKCP	3JAH3
MVP™ Metering, Single Handle	665-PSHJKCP	2FPL8
2½" 3-Wing, Pair	950-PRJKCP	2FPK9
2" Canopy, Pair	1000-PRJKCP	2FPK8
Miscellaneous Parts		
Stem Packing for XT Style Cartridges	1-519JKABNF	3FZT9
Cartridge O-Ring for XT Style Cartridges	1-219JKABNF	3FZT4
Cartridge Cap Nut for Exposed Caps	1-214JKCP	3FZT3
Packing Assembly for X Style Cartridges	1-119JKABNF	4KTG5
Spout Ring	1-104KJKABNF	6HKX2
Rubber Seat Washer	1-021JKABNF	4KTG4
Swing Spout Repair Kit	1-004KJKABNF	2HXY9
Cartridge O-Ring	2-043JKABNF	3FZU4
Valve Body Locknut	49-004JKRBF	3JAE5
Laminar Inlet	50-043KJKABNF	6HKX1
Rigid/Swing Spout O-Ring and Washer	50-035KJKABNF	3JAE6
44" Prerinse Hose and Handle Assembly	83-44ABNF	26Y261
Bell/Widespread Escutcheon	250-180JKCP	5UTT0
Cartridge Cap Nut Concealed Installation	274-004JKRBF	3FZU6
Slow Dashpot Assembly	333-073KJKABNF	3JAC6
Handle	336-403KJKCP	5UTT3

CONTINUED

CONTINUED

Chicago Faucets Repair Parts

CHICAGO FAUCETS
a Geberit company

Description	Mfr. Model	Item No.
Miscellaneous Parts (Cont.)		
Celcon Washer	340-004JKABNF	**3JAD3**
Escutcheon Nut	422-113JKCP	**3JAE2**
Cartridge Sleeve, Chrome	433-042JKABRBF	**26Y280**
Stilt Washer	555-313JKNF	**3JAF1**
Pedal Bracket	625-060JKRCF	**3JAF4**
Handle Index Button, Plain	633-223JKNF	**3JAF8**
Handle, Metering	665-RKPABCP	**6XAF4**
MVP Bubbler Unit	672-XJKABNF	**3JAH7**
Male Thread Shank Assembly, ½" NPT x ½" NPSM x 3⅛"L	748-002KJKABRBF	**26Y283**
Spray Assembly, ¾" - 14 UNS Male Inlet	777-021KJKCP	**3JAJ4**
Vacuum Breaker Assembly Kit	892-402KJKABNF	**6HKW8**
Vacuum Breaker Repair Kit	892-302KJKABNF	**6HKW7**
Vacuum Breaker Cover and Screw Kit	892-254KJKCP	**6HKX3**
Vacuum Breaker, ½" (F)NPT	892-ABCP	**2FPK5**
Wall Mounted Atmospheric Vacuum Breaker, ½" (F)NPT	892-GABCP	**26Y252**
Pipe Support	902-MJKCP	**3JAT2**
Male Thread Shank Assembly, ½" x 3"L	932-001KJKABRBF	**26Y268**
Diverter Valve	1103-006JKABNF	**3FZT1**
Basin Cock Washer	1797-114JKNF	**3FZU2**
Retrofit Kit for 2200 Marathon	2200-200KJKABCP	**4KTG7**
Offset Arm Check Valve with ½" Inlet	GCJKABCP	**26Y244**
Offset Inlet Supply Arm, ½" Inlet	HJKABCP	**26Y259**
Offset Inlet Supply Arm with Integral Stop and Check Valve, ½" Inlet	RCJKABCP	**26Y294**
Offset Inlet Supply Arm with Integral Stop, ½" Inlet	RJKABCP	**26Y281**

Description	Mfr. Model	Item No.
Spouts, Chrome Finish		
6¼" Rigid/Swing Double Bend Spout	DB6AJKABCP	**26Y237**
13" Double Jointed Swing Spout, 13⁄16"-24 UNS Female 2.2 gpm Aerator	DJ13JKABCP	**26Y243**
17¾" Double Jointed Swing Spout, 13⁄16"-24 UNS Female 2.2 gpm Aerator	DJ18JKABCP	**26Y199**
3½" Rigid/Swing Gooseneck w/ 13⁄16"-24 Female 2.2 gpm Aerator	GN1AE3JKABCP	**26Y217**
3½" Rigid/Swing Gooseneck	GN1AJKABCP	**26Y220**
5¼" Rigid/Swing Gooseneck w/ 13⁄16"-24 Female 2.2 gpm Aerator	GN2AE3JKABCP	**26Y212**
5¼" Rigid/Swing Gooseneck	GN2AH8JKABCP	**26Y277**
5¼" Rigid/Swing Gooseneck	GN2AJKABCP	**26Y197**
5¼" Flow Control Rigid/Swing Gooseneck Spout	GN2BFCJKABCP	**6XAG7**
5¼" Rigid/Swing Gooseneck	GN2BJKABCP	**26Y293**
5¾" Rigid/Swing Gooseneck w/Laminar Control, 1.5 gpm	GN2FCJKABCP	**26Y215**
8" Rigid/Swing Gooseneck w/ 13⁄16"-24 Female 2.2 gpm Aerator	GN8AE3JKABCP	**26Y219**
8" Flow Control Rigid/Swing Gooseneck Spout	GN8AFCJKABCP	**6XAG8**
8" Rigid/Swing Gooseneck	GN8AJKABCP	**26Y210**
8" Rigid/Swing Atmospheric Vacuum Breaker Gooseneck Spout	GN8BVBJKABCP	**26Y247**
10" Swing Only Gooseneck	GN10ASWGJKABCP	**26Y240**
8" Spout, w/ 13⁄16"-24 Female 2.2 gpm Aerator	HA8AE3JKABCP	**26Y251**
5¼" Atmospheric Vacuum Breaker Cast Swing Spout w/ ¾" Hose Outlet	L5VBJKCP	**3JAV7**
8" Cast Swing Spout w/ 13⁄16"-24 Female 2.2 gpm Aerator	L8JKABCP	**3JAV8**
9½"L Type Swing Spout w/Quixtop Screen Outlet	L9E1JKABCP	**26Y273**
9½"L Type Swing Spout w/ 13⁄16"-24 Female 2.2 gpm Aerator	L9JKABCP	**3JAW1**
14" Swing Spout w/ 13⁄16"-24 Female 2.2 gpm Aerator	L15JKABCP	**3JAV6**
6" Cast Swing Spout w/ 13⁄16"-24 Female 2.2 gpm Aerator	S6JKABCP	**3JAW4**





American Standard

American Standard Faucet and Shower Repair Parts

Description	Mfr. Model	Item No.
Aerators		
Regular Flow, 2.0 gpm, 15⁄16" Male	066070-0020A	**2CYV1**
Pressure-Compensating, 0.5 gpm, Vandal-Resistant, 55⁄64" Female	066074-0020A	**2ZHR4**
Regular Flow, 2.2 gpm, 55⁄64" Female	066111-0020A	**2CYV9**
Pressure-Compensating, 0.5 gpm, Vandal-Resistant, 15⁄16" Male	066508-0020A	**2ZHR3**
Regular Flow, 2.2 gpm, Vandal-Resistant, 15⁄16" Male	078481-0020A	**5UTL0**
Pressure-Compensating, 1.0 gpm, Vandal-Resistant, 15⁄16" Male	M922996-0020A	**4THJ1**
Pressure-Compensating, 1.0 gpm, Vandal-Resistant, 55⁄64" Female	M922997-0020A	**4THJ2**
Cartridges		
Thermostatic Mixing Valve for Selectronic™ and Metering Faucets	605XTMV1070	**29VL77**
Valve for Prison Lavatory	004466-0070A	**45A206**
Valve Cartridge for Metering Faucet	012690-0020A	**4THJ3**
Ceramic Disk Cartridge for Seva Nos. 4THP5 and 4THP6	023529-0070A	**2CYX3**
Ceramic Disk Cartridge for Heritage	028610-0070A	**2CYX4**
Aquaseal Cartridge, Right Hand	072991-0170A	**5UTK2**
Aquaseal Cartridge, Left Hand	072992-0170A	**5UTK3**
Ceramic Disk Cartridge for Monterrey 5500/6500/7500 Lavatory	951764-0070A	**2CYV2**
Ceramic Disk Cartridge for Colony Soft Nos. 4THP4, 4THT4, and 4THH3	A951470-0070A	**2CYW7**
Drains and Repair Parts		
Stopper Assembly	066116-0020A	**5UTK0**
Pivot Rod Kit	066118-0070A	**5UTK1**
Sink Drain	2411015.002	**5UTK4**
Speed Connect™ Cable	M952430-0070A	**6NWG0**
Speed Connect™ Cam Assembly	M962430-0070A	**2CYW2**

Description	Mfr. Model	Item No.
Escutcheon Plate		
4" Cast Brass Escutcheon Plate, Chrome	605P400.002	**1FYB6**
8" Cast Brass Escutcheon Plate, Chrome	605P800.002	**1YHY5**
Handles and Repair Parts		
Wrist Blade Handle for Monterrey Lavatory	051217-0020A	**2CYU9**
Handle Kit for Seva Lavatory	060327-0020A	**2CYW9**
Handle Adapter for Ravenna and Azimuth	918049-0070A	**6NWP8**
Handle Screw for Hampton and Williamsburg	918428-0070A	**6NWP9**
Handle Adaptor for Hampton and Williamsburg	923002-0070A	**6NWF4**
Index Buttons for Town Square	M907024-0020A	**6NWR2**
Long Handle Adapter for Town Square	M918025-0070A	**6NWR3**
Metering Handle Kit	M962390-0020A	**2CYV3**
Kitchen Faucet Repair Parts		
Spray Hose Wieght Kit for Reliant	050448-0070A	**6NWG7**
Pull Out Spray for No. 4THR4	M952237-0020A	**2ZHL1**
Handspray and Hose for No. 4THT3	M953667-0020A	**2ZHK7**
Handspray and Hose for No. 4THR9	M953670-0170A	**2ZHK2**
Spray Hose and Seal for No. 4THR4	M962368-0070A	**2ZHL3**
Miscellaneous Parts		
Spacer Disk and Seal Kit	060343-0070A	**5UTJ9**
Mounting Nuts	065800-0070A	**5UTL4**
Valve Rebuild Kit	066298-0070A	**4THK2**
Actuating Unit	068470-0070A	**6NWP5**
Repair Parts for Shower Valves, Trim Kits, and Handheld Shower Systems		
Tub Diverter Spout Repair Kit	012653-0020A	**45A212**
Diverter Tub Spout	022635-0020A	**6NWG2**
Pressure Balance Cartridge for Reliant	051091-0070A	**6NWN8**
Screw Stop Assembly for Nos. 2TGW5 and 2TGW7	051122-0070A	**2ZHN3**
Shower Cartridge, Ultra-Mix	051337-0070A	**6NWN9**
Shower Cartridge	066269-0070A	**6NWP4**
Pressure Balance Valve, Ultra-Mix	077171-0070A	**6NWP7**
Shower Hose	8888035.002	**5UTN0**
Wall Supply	8888037.002	**5UTN1**
Cartridge for R110SS Rough Valve Body	A954440-0070A	**2ZHN2**
Pressure Balancing Unit for Nos. 2TGW5 and 2TGW7	M952100-0070A	**2ZHN4**
Tub Diverter Spout Repair Kit	M962106-0020A	**45A218**
Spouts and Repair Parts		
Spout	012124-0020A	**45A216**
Spout Seal Kit for No. 4THT3	060366-0070A	**2ZHK6**





Faucet Repair Parts and Accessories

MOEN Buy it for looks. Buy it for life.® Kissler

Description	Moen Genuine Part Mfr. Model	Moen Genuine Part Item No.	Kissler Non-OEM Mfr. Model	Kissler Non-OEM Item No.
Cartridges				
Cartridge Retainer Removal Tool for 2 Handle Cartridges	14272	**6WA67**	—	—
Cartridge Puller for 1200, 1222, & 1225 Cartridges	—	—	08-0423	**2FGT4**
Ceramic/Plastic Disc Cartridge for 1 Handle Faucets	1255	**4XKZ7**	—	—
Ceramic/Brass Disc Cartridge for 1 Handle Faucets	121549	**4NEH6**	—	—
Ceramic Disc Cartridge for 2 Handle Faucets, Hot	52000	**4NEF5**	—	—
Ceramic Disc Cartridge for 2 Handle Faucets, Cold	52001	**4NEF6**	—	—
For 1 Handle Faucets	1225	**2P318**	46-0014	**2FGR4**
For 2 Handle Roman Tub Faucets	1248	**1RYH4**	—	—
For 2 Handle Faucets (Hot or Cold)	—	—	46-0024	**2FGR3**
For 1 Handle Faucets, Brass, Shower	—	—	46-0012	**2FGR7**
For 1 Handle Posi-Temp Valves	—	—	46-1222	**2FGR6**
For 1 or 2 Handle Metering Faucets	—	—	46-0040	**2FGR5**
Aerators				
55⁄64"-27 Female, 0.5 gpm, Vandal Resistant	52603	**4NEG1**	—	—
55⁄64"-27 Female, 2.2 gpm	3924	**6WA66**	—	—
15⁄16"-27 Male, 0.5 gpm, Vandal Resistant, Incl. Spanner Wrench	52602	**4NEF9**	—	—
15⁄16"-27 Male, 0.5 gpm, Vandal-Resistant	16350	**1RYJ1**	—	—
15⁄16"-27 Male, 1.5 gpm	101010	**4NEH3**	—	—
15⁄16"-27 Male, 1.5 gpm, Vandal Resistant	52610	**4NEG3**	—	—
15⁄16"-27 Male, 2.2 gpm	3919	**6WA64**	—	—
Male Thread, 2.2 gpm	—	—	AB83-6010	**29FJ56**
Tub and Shower Handle Kits				
Single Knob Tub/Shower Handle Kit, Chateau	98039	**1WXL1**	46-6797	**2FGT2**
Single Knob Tub/Shower Handle Kit, Posi-Temp	100710	**1WXL4**	46-6884	**2FGR9**
Single Knob Tub/Shower Handle Kit, Less Insert, Posi-Temp	94514	**6WA60**	—	—
Deck Plates and Escutcheons				
Escutcheon Plate	96885	**4NEG9**	—	—

Description	Kissler Non-OEM Mfr. Model	Kissler Non-OEM Item No.
Tub Spouts		
Tub Diverter Spout, Die Cast Steel	82-0021	**39AP75**
Tub Diverter Spout, Brass	82-0012	**39AP81**
Tub Diverter Spout, Plastic	82-0010	**39AP82**

Description	Moen Genuine Part Mfr. Model	Moen Genuine Part Item No.
Handles		
Adapters, Widespread Wing Handle, Pair	90274	**4NEG5**
Handle Adapter Kit for Single Handle Kitchen (Except Legend and Manor)	100429	**6WA57**
Handle Adapters	94746	**4NEG7**
Handle for Shower, Chrome	100657	**4NEE9**
Lever Handle Assembly	94740	**4NEG6**
Lever Handle Kit	14732	**4NEF4**
Single Handle Retainer Clip for Posi-Temp Tub/Shower	96914	**1RYJ4**
Single Lever Handle Mechanism Kit for Lavatory Faucet, Villeta	102568	**1WXL6**
Wrist Blade Handle, Cold	14838	**1RYH9**
Wrist Blade Handle, Hot	14834	**1RYH8**
Miscellaneous Parts and Accessories		
1¼" Chrome Grid Strainer Waste	14750	**4ZD99**
1" Handle Extension Kit, Posi-Temp 1 Handle	96945	**1RYJ5**
Balancing Spool for Moentrol 1H Tub/Shower	1423	**6WA65**
Diverter Tub Spout, ½" Slip Fit, 5½" Length	3931	**6WA62**
Drain Plug	12314	**1RYH7**
Electronic Circuit Board	104434	**1WXL8**
Faucet Service Kit, 1 Handle Lever	101310	**4NEH4**
Mixing Valve	104424	**4NEH5**
Stop Tube, Posi-Temp 1 Handle	96987	**1RYJ6**
Tub and Shower Stop Tube for Legend and Chateau	10089	**1RYH6**

Description	Mfr. Model	Item No.
10⅜" Gooseneck Swivel Spout	133X	**10C482**
3½" Rotary Waste Valve Strainer	010386-45	**4KRC1**
10" Swing Nozzle	061X	**4XKP6**
12" Swing Nozzle	062X	**4XKL3**
14" Swing Nozzle	063X	**10C477**
16" Swing Nozzle	064X	**4XKL4**
18" Double Joint Swing Nozzle	068X	**4XKL5**
18" Swing Nozzle	065X	**10C478**
3" Gooseneck Swing Nozzle	132X	**4XKL6**
3" Rotary Waste Valve Strainer	010385-45	**4KRA9**
4-Arm Handle Kit	B-19K	**4KRD3**
6" Swing Nozzle	059X	**4XKP5**
8" Swing Nozzle	060X	**4XKL2**
Bell Escutcheon	001257-40	**10C471**
Bonnet	002856-40	**4KRA2**
Bottom Gasket, Pkg. of 25	001022-45	**4XKN9**
Cartridge	013080-45	**4KRC5**
Cartridge, Hot	238AH	**4XKN1**
Cartridge Assembly, Cold	006477-40	**10C474**
Cartridge Assembly, Hot	006478-40	**10C475**
Cartridge Cold	238AC	**4XKL9**
Cartridge Spindle, Cold	67L	**10C469**
Ceramic Cartridge & Washer, Cold	011277-45	**10C459**
Ceramic Cartridge & Washer, Hot	011276-45	**10C458**
Cold Cartridge	66L	**4XKN3**
Cold Index Button	001660-45	**4KPZ7**
Cold Spindle Assembly w/Spring	002711-40	**4KPZ9**
Coupling Nut, Pkg. of 25	001019-45	**4XKN8**
Eterna Cartridge Replacement Kit (Incl. Right and Left Hand Removable Insert Assemblies)	B-21K	**5WMX3**
Eterna Cartridge Spindle Kit (Incl. Right and Left Spindle Inserts, Screws, Washers)	B-11K	**5WMX2**
Eterna Cerama Cold Stem Assembly	011279-25	**10C461**
Eterna Cerama Hot Stem Assembly	011278-25	**10C460**
Eterna Spindle Assembly, Cold	006009-40	**10C472**
Eterna Spindle Assembly, Cold	2713-40	**4KRC7**
Eterna Spindle Assembly, Hot	006010-40	**10C473**
Eterna Spindle Assembly, Hot	2714-40	**4KRC8**
Eterna Spindle Assembly, Left Hand Cold	005959-40	**4KRA4**
Eterna Spindle Parts Kit	B-6K	**5NRF6**
Faucet Cartridge, Hot	002983-40	**10C453**
Garden Hose Outlet	B-GFE	**2MCU8**
Glass Filler Arm, Lexan	001145-45	**10C451**
Glass Filler Repair Kit, Lexan	015550-45	**10C462**
Handle Assembly, Cold	006089-45	**10C454**
Handle Assembly, Hot	006090-45	**10C455**
Hot Cartridge	64L	**4XKN2**
Hot Index Button	001661-45	**4KPZ8**
Hot Spindle Assembly w/Spring	002712-40	**4KRA1**
Lever Handle, Cold	001636-45	**4XKP2**
Lever Handle, Hot	001637-45	**4KPZ5**
Lever Handle, Plain	001638-45	**4KPZ6**
Lever Handle Assembly	010394-45	**4KRC3**
Lever Handle Kit (Incl. Right and Left Handle, Index Buttons, Screws)	B-9K	**1DYE6**
Master Faucets Repair Kit	B-7K	**4KRD5**
Metering Barrel Assembly	014152-40	**4KRC6**





Master Faucets Repair Kit

T&S Faucet Repair Parts

Description	Mfr. Model	Item No.
Metering Valve Cartridge	238A	**4XKL7**
Non-Splash Aerator, 55/64"-27 FNPT, 2.2 gpm	B-0199-01	**4KRD7**
Non-Splash Aerator with Flow Control, 55/64"-27 FNPT, 1.2 gpm	B-0199-01F12	**4KRD8**
Non-Splash Aerator with Vandal Resistant Key, 55/64"-27 FNPT, 2.2 gpm	B-0199-06	**4KRD9**
Nozzle O-Ring, Pkg. of 25	001074-45	**4XKP1**
Parts Kit Eterna Inserts (Incl. Right and Left Hand Spindle Insert)	B-13K	**5NRF8**
Pedal Valve Bonnet Assembly	005312-40	**4XKP3**
Push Button Metering Cartridge	238AB	**4XKL8**
Quarter Turn Spindle Assembly	007947-40	**10C457**
Repair Kit for Glass Fillers	B-1255	**4XKP7**
Rigid Gooseneck Spout	B-0520	**10C467**
Spindle Assembly	006482-40	**10C456**
Spindle Assembly	005960-40	**4KRA5**
Spindle Assembly, Left Hand Hot	009754-25	**4KRA8**
Spindle Assembly, Right Hand Cold	009753-25	**4KRA7**
Spindle Insert, Left Hand	000812-25	**4XKN7**
Spindle Insert, Right Hand	000811-25	**4XKN6**
Spindle Parts Kit for Workboard Faucets (Incl. Right and Left Hand Spindle, Screws, Seal Washers)	B-12K	**5NRF7**
Spray Valve Repair Kit	B-10K	**5WMX1**
Spring Checks Parts Kit (Incl. Right and Left Hand Eterna Spindle w/Spring Check)	B-23K	**5NRG0**
Supply Connector Kit	B0230-K	**4KRD1**
Twist Handle Assembly	010393-45	**4KRC2**
Vacuum Breaker	B-0968	**10C463**
Vacuum Breaker	B-0969	**10C465**
Vacuum Breaker Repair Kit	B0968RK01	**10C464**
Vacuum Breaker Repair Kit	B-0969RK01	**4KRD2**
Valve Handle	001120-45	**4KPZ4**
Waste Valve Plunger	010388-45	**10C476**
Waste Valve Repair Kit	B39K	**4KRD4**
Workboard Parts Kit	B-20K	**5NRF9**
Wrist Blade Replacement Handle - Blank	B-WH4	**2MCU6**
Wrist Blade Replacement Handle - Cold	B-WH4C	**2MCU7**
Wrist Blade Replacement Handle - Hot	B-WH4-H	**4KRD6**







DELTA GENUINE PARTS Kissler GENUINE PARTS

Faucet Repair Parts

Description	Delta Genuine Part Mfr. Model	Delta Genuine Part Item No.	Kissler Non-OEM Mfr. Model	Kissler Non-OEM Item No.
Cartridges				
Cartridge Assembly	RP46074	**4NLN3**	—	—
Faucet Ball Assembly	RP212	**1NNY4**	PB212S	**2FGU2**
Faucet Ball Assembly	—	—	PB70S	**2FGU3**
For Lavatory	—	—	46-6399	**2FGT9**
For Lavatory, Brass	RP25513	**1NNY8**	KRP25513	**2FGT8**
For Lavatory or Kitchen, Resin	RP1740	**1NNX9**	PB1745	**2FGT7**
For Single Handle 1500/1700 Tub/Shower	RP32104	**10N719**	—	—
For Single Handle Faucets	RP50587	**6NRG0**	—	—
For Single Handle Tub/Shower	RP19804	**1NNY3**	46-9804	**2FGU1**
Thermostatic Cartridge	RP47201	**4NLN5**	—	—
Handles, Include Set Screw				
Acrylic Handle (500 Series Faucets)	RP2389	**10N722**	—	—
Acrylic Handle (600 Series Single Lever Tub/Shower)	RP17451	**10N734**	—	—
Acrylic Lavatory, Knob Handle Pair	RP23498	**1NNY5**	95-1718	**2FGU6**
Acrylic Lavatory Single Knob	RP17449	**1NNY2**	—	—
Kitchen Handle (100, 200, 300, 400 Series)	RP2393	**1NNY7**	—	—
Kitchen Single Handle (100 & 400 Series)	RP90	**1NNX5**	—	—
Lavatory and Shower Handle for 600 Series	RP17443	**1NNY1**	46-1132	**2FGU5**
Miscellaneous				
Acrylic Tub and Shower Single Knob	RP2392	**1NNY6**	46-9392	**2FGU7**
Adapter and Plumbers Hook Universal Valve	RP46463	**4NLN4**	—	—
Aerator, Male, 2.2 GPM, Vandal Resistant	RP246	**1NNZ5**	—	—
Aerator, Male 15/16-27", 2.2 GPM	RP330	**10N731**	—	—
Battery Module Assembly	060681A	**48RF22**	—	—
Diverter Tub Spout, Pull Down	RP17453	**10N732**	—	—
Diverter Tub Spout, Pull Up	RP5834	**10N729**	—	—
Faucet Adapters for DST Faucets	RP63263	**10N717**	—	—
Faucet Bonnet Nut	RP22734	**10N725**	—	—
Faucet Handle Buttons, Hot and Cold	RP19659	**10N737**	—	—
Faucet Handle Buttons for 1300/1400 Tub Faucets, Pkg. of 10	RP20542	**10N723**	—	—
Faucet Handle Buttons for Acrylic Lavatory Faucets, Cold, Pkg. of 10	RPB21915	**10N721**	—	—
Faucet Handle Buttons for Acrylic Lavatory Faucets, Hot, Pkg. of 10	RPB21912	**10N720**	—	—
Faucet Hose Quick Connect Clip	RP32522	**10N736**	—	—
Faucet Repair Kit	RP3614	**1NNZ1**	PB3614	**2FGU9**
Faucet Repair Kit	—	—	540-7270	**2FGU8**
Faucet Repair Kit—Seat and Seals	RP4993	**1NNX8**	PB4993	**2FGV2**
Faucet Seats, Pkg. of 24	RP1806MBS	**10N726**	—	—
Faucet Sink Spray Head & Hose Assembly	RP6011	**10N735**	—	—
Faucet Springs, Pkg. of 24	RP3427MBS	**10N727**	—	—
Nut	RP36203	**48RF14**	—	—
Transformer	060683A	**48RF12**	—	—
Trim and Cover Plate	RP30528	**48RF11**	—	—

Description	Delta Genuine Part Mfr. Model	Delta Genuine Part Item No.
Miscellaneous		
Aerator Wrench	RP6420	**48RF16**
Faucet Stem Extender for 2 or 3 Handle Tub/ Shower Faucets	RP18627	**10N724**
Faucet Stem for No. 6P959	RP24096	**10N718**
Filter	060909A	**48RF02**
Flange	060906A	**48RF09**
Gasket	RP6142	**48RF18**
Gasket	RP30522	**48RF21**
Hot/Cold Cartridge, Plastic Pkg. of 6	RP1740MBS	**10N728**
Laminar Outlet	061203A	**48RF20**
Lavatory Cap	RP50	**1NNX7**
Nut	RP6087	**48RF08**
Nut	RP6140	**48RF17**
O-Ring Repair Kit for 100,200,300,400 Series Single Handle Faucets	RP25	**10N714**
Pop-Up Drain Assembly	RP5651	**10N730**
Push Button Diverter Stem for Single Handle Tub Faucets	RP5649	**10N716**
Seat	RP1806	**48RF24**
Shower Head, Push Clean, Brass, Plastic	RP28599	**10N733**
Single Handle Repair Kit	RP63138	**1NNY9**
Solenoid Valve	060908A	**48RF15**
Spout O-Ring Repair Kit for 2 Handle non-DST Kitchen Faucets	RP2055	**10N713**
Spout O-Ring Set	RP22934	**1NNZ4**
Spout Retainer	RP21463	**1NNZ3**
Spray Diverter Assembly for 2 Handle Kitchen Faucets w/Spray	RP63135	**10N715**
Transformer	RP32508	**48RF19**
Transformer	RP32856	**48RF10**
Tub and Shower Cover Plate	RP29827	**1NNZ7**
Vessel Bowl Grid Strainer	RP6346	**48RF13**

Zurn Faucet Repair Parts



Control Box



Mixing Valve

Description	Mfr. Model	Item No.
Cartridges		
Short Stem Ceramic Cartridge, Cold	59517005	**4JPA3**
Short Stem Ceramic Cartridge, Hot	59517006	**4JPA4**
Long Stem Ceramic Cartridge, Cold	59517007	**4JPA5**
Long Stem Ceramic Cartridge, Hot	59517008	**4JPA6**
Spouts		
Spout Assembly, Rough Chrome Vacuum Breaker	G60555	**5UNT1**
Aerators for Sensor Faucets		
Aerator, 15⁄16-27 Male, 1.5 gpm	P6900-20E	**4UZN9**
Aerator, 15⁄16-27 Male, 2.0 gpm	P6900-20A	**4UZN8**
Aerator, 15⁄16-27 Male, 0.5 gpm	P6900-20F	**4UZP1**
Aerator Wrench	P6900-21	**6RKG0**
Miscellaneous Repair Parts		
4" Deck Plate	P6900-CP4	**4JPC2**
8" Deck Plate	P6900-CP8	**4JPC3**
Foot Pedal Valve Assembly	G66001	**5UNT5**
Handles, 4" Wristblade, 1 Pair	G60504	**5UNR9**
Handle Assembly, Metering	G60522	**5UNT0**
Handle Assembly, Metering, 1 Pair	G61830	**5UNT3**
Handle Mount Assembly	G60561	**4JPA7**
Mixing Valve	P6900-MV-XL	**6RKG9**
Repair Kit, Vacuum Breaker	JP1996-SF-VB-RK	**5UNT7**
Slow Close Metering Cartridge	G61754	**4JPC1**
For Sensor Faucets		
Control Box	P6900-B-L	**5UNU2**
Mixing Tee, Brass	P6900-MT-1-XL	**30PT30**
Mixing Valve	P6900-ADM-XL	**33KJ84**
Power Converter	P6900-ACA	**5UNU1**
Solenoid Rebuild Kit	P6900-SRK	**4UZP3**
Spout Assembly, Brass	P6920-XL-1	**30PT20**
Spout, Brass, Plastic, Copper	P6913-XL-1	**30PT19**
Spout Base, Brass, Plastic, Copper	P6915-XL-1	**30PT26**



Aerator



Cross Handle Repair Kit



Faucet Module

SPEAKMAN® Speakman Faucet Repair Parts



Vacuum Breaker Repair Kit

Description	Mfr. Model	Item No.
0.5 gpm BOCA Outlet/Vandal Resistant Flow Control	RPG05-0733-PC	**4NGY2**
6" Gooseneck Assembly	RPG18-0213-CA	**4NGX6**
Aerators (SEF-1800's)	RPG05-1177	**4NGV9**
Cold Cartridge, Includes Valve, Sleeve Extension, Screws (4), Bushing	RPG05-0535-CA	**5NPV1**
Cross Handle Repair Kit	RPG04-0323-PC	**3HER4**
Easy Push Replacement Unit	G05-0441-RPR	**4NGX5**
Faucet Module, 6VDC, Includes Batteries	RPG66-0160	**3HEP8**
Faucet Solenoid Repair Kit	RPG76-0039	**3HEP7**
Medium Perfect Valve Red	RPG05-0534-CA	**32WT27**
Repair Kit, Includes Handle Insert, Set Screw	RPG05-0523	**5NPT9**
Repair Kit, Includes Handle Only	RPG04-0296-PC	**5NPT8**
Repair Kit, Includes Spindle, O-ring (2), Washer (2)	RPG03-0259-RCP	**5NPT7**
Seat Washers and Screws, Chrome	RPG45-0033	**3HER2**
Vacuum Breaker Repair Kit	RPG05-0520	**3HER7**
Widespread Standard Trim Repair Kit	RPG10-0070-PC	**4NGX8**



Aerated



Laminar



Spray



Unthreaded No. 4XGL4



Threaded No. 46CF70



Faucet Outlet Adapter No. 20K845



Installation Wrench No. 4XGK1

NEOPERL®

Faucet Aerators & Outlets

- OEM quality

Connect to the end of a faucet spout to direct the water stream, minimize splashing in sink basins, and reduce water use. These parts are added to faucets for flow-control applications and used as replacements for aerators that block water flow, cause the water stream to sputter, or allow dripping from the spout.

Unthreaded Faucet Aerator Inserts and Flow Restrictors—Easily fit into faucet spouts.

Threaded Faucet Aerators and Flow Restrictors—Thread onto faucet spouts.

Faucet Outlet Adapters—Allow the faucet spout to be fitted with different types of aerators and adapted to suit different applications.

Faucet Aerator Installation Tools—Aid in the installation and removal of clogged faucet aerators. Tools fit a compatible aerator and faucet without causing damage.

Flow Rate	Std.	Item No.	Pkg. Qty.
Unthreaded Faucet Aerator Inserts & Flow Restrictors, Acetal Finish			
Aerated			
1.00 gpm	WaterSense, NSF61	**4XGL3**	1
1.20 gpm	WaterSense, NSF61	**46CF55**	1
	WaterSense, NSF61	**46CF68**	1
1.50 gpm	WaterSense, NSF61	**4XGL4**	1
	WaterSense, NSF61	**4XGL7**	1
1.80 gpm	NSF61	**46CF64**	1
	NSF61	**46CF72**	1
2.20 gpm	NSF61	**4XGL6**	1
	NSF61	**4XGL8**	1
Laminar			
1.50 gpm	WaterSense, NSF61	**4XGL5**	1
Spray			
0.35 gpm	NSF61	**10N188**	1
	NSF61	**10N189**	1
0.50 gpm	NSF61	**4XGL2**	1

Thread Size	Thread Type	Flow Rate	Std.	Item No.	Pkg. Qty.
Threaded Faucet Aerators & Flow Restrictors, Chrome Finish					
Aerated					
¾"-27	Female	1.20 gpm	WaterSense, NSF61	**46CF70**	1
	Female	1.50 gpm	WaterSense, NSF61	**4XGH1**	1
	Female	1.80 gpm	NSF61	**46CF74**	1
	Female	2.20 gpm	NSF61	**4XGH2**	1
13⁄16"-24	Female	1.20 gpm	WaterSense, NSF61	**46CF71**	1
	Female	1.50 gpm	WaterSense, NSF61	**4XGH3**	1
	Female	1.80 gpm	NSF61	**46CF75**	1
	Female	2.20 gpm	NSF61	**4XGH5**	1
13⁄16"-27	Male	1.20 gpm	WaterSense, NSF61	**46CF69**	1
	Male	1.50 gpm	WaterSense, NSF61	**4XGG8**	1
	Male	1.80 gpm	NSF61	**46CF73**	1
	Male	2.20 gpm	NSF61	**4XGG9**	1
55⁄64"-27	Female	1.00 gpm	WaterSense, NSF61	**4XGF8**	1
	Female	1.20 gpm	WaterSense, NSF61	**46CF57**	1
	Female	1.50 gpm	WaterSense, NSF61	**4XGF9**	1
	Female	1.80 gpm	NSF61	**10N176**	1
	Female	2.20 gpm	NSF61	**4XGG2**	1
15⁄16"-27, 55⁄64"-27	Dual	1.00 gpm	WaterSense, NSF61	**4XGG4**	1
	Dual	1.00 gpm	WaterSense, NSF61	**4XGN1**	6
	Dual	1.00 gpm	WaterSense, NSF61	**5UUZ6** *	40
	Dual	1.00 gpm	WaterSense, NSF61	**5UUZ5**	50
	Dual	1.20 gpm	WaterSense, NSF61	**46CF58**	1
	Dual	1.20 gpm	WaterSense, NSF61	**46CF62** *	1
	Dual	1.20 gpm	WaterSense, NSF61	**46CF59**	6
	Dual	1.20 gpm	WaterSense, NSF61	**46CF63** *	40
	Dual	1.20 gpm	WaterSense, NSF61	**46CF60**	50
	Dual	1.50 gpm	WaterSense, NSF61	**4XGG5**	1
	Dual	1.50 gpm	WaterSense, NSF61	**4XGJ2** *	1
	Dual	1.50 gpm	WaterSense, NSF61	**4XGN2**	6
	Dual	1.50 gpm	WaterSense, NSF61	**5UUZ7** *	40
	Dual	1.50 gpm	WaterSense, NSF61	**4XGN6**	50
	Dual	1.80 gpm	NSF61	**10N177**	1
	Dual	1.80 gpm	NSF61	**10N179** *	1
	Dual	1.80 gpm	NSF61	**46CF65**	6
	Dual	1.80 gpm	NSF61	**46CF67** *	40
	Dual	1.80 gpm	NSF61	**46CF66**	50
	Dual	2.20 gpm	NSF61	**4XGG7**	1
	Dual	2.20 gpm	NSF61	**4XGJ3** *	1
	Dual	2.20 gpm	NSF61	**4XGN4**	6
	Dual	2.20 gpm	NSF61	**5UVA0** *	40
	Dual	2.20 gpm	NSF61	**4XGN7**	50

Thread Size	Thread Type	Flow Rate	Std.	Item No.	Pkg. Qty.
	Male	1.00 gpm	WaterSense, NSF61	**4XGF3**	1
	Male	1.20 gpm	WaterSense, NSF61	**46CF56**	1
	Male	1.20 gpm	WaterSense, NSF61	**46CF61**	1
	Male	1.50 gpm	WaterSense, NSF61	**4XGF4**	1
15⁄16"-27	Male	1.50 gpm	WaterSense, NSF61	**4XGH8** *	1
	Male	1.80 gpm	NSF61	**10N175**	1
	Male	1.80 gpm	NSF61	**10N178** *	1
	Male	2.20 gpm	NSF61	**4XGF6**	1
	Male	2.20 gpm	NSF61	**4XGH9** *	1
Laminar					
13⁄16"-24	Female	1.80 gpm	NSF61	**46CF76**	1
55⁄64"-27	Female	1.50 gpm	WaterSense, NSF61	**4XGG1**	1
15⁄16"-27, 55⁄64"-27	Dual	1.50 gpm	WaterSense, NSF61	**4XGG6**	1
	Dual	1.50 gpm	WaterSense, NSF61	**4XGN3**	6
	Dual	1.50 gpm	WaterSense, NSF61	**5UUZ9** *	40
	Dual	1.50 gpm	WaterSense, NSF61	**5UUZ8**	50
15⁄16"-27	Male	1.50 gpm	WaterSense, NSF61	**4XGF5**	1
Spray					
	Female	0.35 gpm	NSF61	**10N181**	1
¾"-27	Female	0.35 gpm	NSF61	**10N185** *	1
	Female	0.50 gpm	NSF61	**10N183**	1
	Female	0.50 gpm	NSF61	**10N187** *	1
	Male	0.35 gpm	NSF61	**10N180**	1
13⁄16"-27	Male	0.35 gpm	NSF61	**10N184** *	1
	Male	0.50 gpm	NSF61	**10N182**	1
	Male	0.50 gpm	NSF61	**10N186** *	1
55⁄64"-27	Female	0.35 gpm	NSF61	**10N171**	1
	Female	0.50 gpm	NSF61	**4XGF7**	1
15⁄16"-27, 55⁄64"-27	Dual	0.35 gpm	NSF61	**10N172**	1
	Dual	0.35 gpm	NSF61	**10N174** *	1
	Dual	0.35 gpm	NSF61	**10N192**	6
	Dual	0.35 gpm	NSF61	**10N194** *	40
	Dual	0.35 gpm	NSF61	**10N193**	50
	Dual	0.50 gpm	NSF61	**4XGG3**	1
	Dual	0.50 gpm	NSF61	**4XGJ1** *	1
	Dual	0.50 gpm	NSF61	**4XGL9**	6
	Dual	0.50 gpm	NSF61	**4XGN5** *	40
	Dual	0.50 gpm	NSF61	**5UUZ4**	50
15⁄16"-27	Male	0.35 gpm	NSF61	**10N170**	1
	Male	0.35 gpm	NSF61	**10N173** *	1
	Male	0.50 gpm	NSF61	**4XGF2**	1
	Male	0.50 gpm	NSF61	**4XGH7** *	1

Thread Size	Connection	Thread Size Type	Finish	Std.	Item No.	Pkg. Qty.
Faucet Outlet Adapters						
¾" GH	Large Diameter, ¾" MGHT	Male	Unfinished	NSF61	**4XGJ9**	1
13⁄16"-24, 55⁄64"-27	13⁄16-24 Female x 55⁄64-27 Male	Dual	Chrome	NSF61	**20K845**	1
13⁄16"-27, 55⁄64"-27	—	Male	Acetal	NSF61	**10N197**	1
	13⁄16-27 Male x 55⁄64-27 Male	Male	Chrome	NSF61	**20K849**	1
15⁄16"-27, 55⁄64"-27	15⁄16-27 and 55⁄64-27 x ¾" Male	Dual	Chrome	NSF61	**20K846**	1
	15⁄16-27 and 55⁄64-27	Dual	Chrome	NSF61	**20K848**	1
	—	Male	Acetal	NSF61	**10N196**	1
55⁄64"-27	3 Sleeves Small Opening x 55⁄64"-27 Male	Male	Chrome	NSF61	**20K850**	1
Multiple Thread Sizes	—	Dual	Chrome	NSF61	**20K851**	1

For Use With	Item No.
Faucet Aerator Installation Wrenches	
10N170 to 10N172, 4XGF2 to 4XGF9, 4XGG1 to 4XGG9, 10N175 to 10N177, 10N180 to10N183, 4XGH1 to 4XGH6, 10N194, 4XGN5, 5UUZ6, 5UUZ7, 5UUZ9, 5UVA0	**4XGK1**
10N184 to 10N187	**10N198**
10N173, 10N174, 10N178, 10N179, 4XGH7 to 4XGH9, 4XGJ1 to 4XGJ3, 10N192, 10N193, 4XGL9, 5UUZ4, 5UUZ5, 4XGN1 to 4XGN4, 4XGN6, 5UUZ8, 4XGN7	**10N199**

**** Vandal resistant.***

Plumbing Specialty Tools

Superior Tool

GA GRAINGER APPROVED

Description	Brand	Item No.
Brush		
4 In 1 Pipe Cleaning Brush	Superior	1LNX4
Caddies		
Nipple Caddy, for ½" Nipples	Harvey	4NDN2
Nipple Caddy, for ¾" Nipples	Harvey	4NDN1
Plumbing Specialty Tools		
Drain Stick	Superior	1LNY2
Faucet Reseater Kit	Superior	1LNY6
Tub Shower Valve Socket Set 5 Piece	Superior	1LNX5
Tub Drain Tool Remover	Superior	45W755
Plumbers Multi Tool	Superior	45W757
Hose Tap Thread Cleaning Tool	Superior	39AN53

Description	Brand	Item No.
Keys		
Combination Street Key, 30°L	GA	1WJU2
Combination Water Meter Key, 12°L	GA	1WJT9
Four Way Water Key	GA	1WJT1
PEX Tool		
Pex Crimp Tool	Superior	4XLF3
Pullers		
Compression Sleeve Puller	Superior	1LNX7
Riser Removal, ½ & ¾" Cap.	Superior	6CXE2
Faucet Handle Puller	Superior	1LNX9



Nipple Caddy
No. 4NDN1



Water Key
No. 1WJT1

Description	Brand	Item No.
Wrenches		
Tight Spot Wrench, 1¼" Cap.	Superior	1LNY4
Tight Spot Wrench, 1½" Cap.	Superior	1LNY3
Adjustable Wrench, 1 To 3" Cap.	Superior	2GWK4
Water/Gas Shutoff Wrench	Superior	2GWK3
Tub Drain Wrench	GA	34A506
Drum Tap Wrench	GA	2GWK2
Universal Faucet Wrench	Superior	45W754
Drain Wrench	Superior	45W758
Wrench, 1¾ Cap., 9⅜"L	Superior	39AN50

Plungers and Drain Flushers

korky

GA GRAINGER APPROVED

CHERNE

Clog-Buster®—Unclog drain pipes in seconds without harmful chemicals. Attach to standard ¾" garden hose fitting.

Item	Plunger Material	Cup Dia.	Handle Length	Handle Material	Brand	Item No.
Plungers						
Plunger	Rubber	6"	16¼"	Plastic	Korky	48H474
Plunger	Rubber	6¼"	21"	Wood	Korky	29VM26
Plunger With Drip Tray	Premium Rubber	5¾"	16¼"	Plastic	Korky	2XLD4
Forced Cup Plunger	Durable Rubber	4"	8"	Wood	GA	1RLV7
Forced Cup Plunger	Rubber	5"	19"	Wood	GA	1LNX3
Forced Cup Plunger	Durable Rubber	6"	21"	Wood	GA	1RLV8
E-Z Bellows Plunger	Plastic	7"	12"	Plastic	GA	5TF30
Clog-Buster®						
Clog-Buster® Drain opener, 1½" to 3"					Cherne	3NWA4
Clog-Buster® Drain opener, 4" to 6"					Cherne	3NWA5



No. 48H474



No. 3NWA4

Toilet Supports

BIG JOHN PRODUCTS

Plunger Splash Guard—Clear splash guard helps keep water from splashing out of the toilet bowl.

- Fits most round or elongated toilets

Toilet Supports—Use with most wall-mounted toilets to increase capacity up to 1000 lb.

- Fit round or elongated toilets



No. 12G702

No. 12G703

Item	Rated Life	Material	Size	Mfr. Model	Item No.
Plunger Splash Guard	Disposable	Plastic	Adjustable	PSG	40XA70
Toilet Support	—	High Impact ABS, Steel, Flexible PVC	5" x 7½" x 7½" x 14"	612011919-S 612011919	12G703 12G702

American Standard

SLOAN

Bedpan Washing Systems

- ADA compliant with vandal resistant stop cap, except American Standard®

Sloan® has exposed diaphragm-type, closet flush valve for floor-mount or wall-hung bowls with a 1½" top spud. All have 1-pc. body to keep spray arm upright. Include valve body, stop body, diverter body, and diverter pivot, except American Standard has no valve. For information on standards, go to Grainger.com®.



No. 4LW44

No. 24PR45

No. 3EPV4

Description	Mfr. Model	Item No.
Bedpan Washer Flush Valves, SLOAN		
1.6 gpf, 26½" Rough-In, Diaphragm	Royal BPW 1100-1.6	6UYN6
3.5 gpf, 34⅜" Rough-In, Diaphragm	ROYAL BPW 1000	4LW44
Bedpan Washer Retrofit Kits, AMERICAN STANDARD		
20 to 80 psi Press. Range, 1½" Inlet	6047800.002	24PR45
20 to 80 psi Press. Range, 1½" Inlet	6047815.002	24PR46
Repair Parts, SLOAN		
Bedpan Washer Retrofit Kit, for Bedpan Washer	DV100	4LW53
Bedpan Washer Retrofit Kit, for Sloan Bedpan Washers	DV130	3EPV7
Toilet Valve Bodies	DV1	3EPV4
Diverter Valve Kit	DV50A	2XU45
Pivot Replacement Kit	DV1003A	2XU44
Spray Arm Repair Kit	DV32AA	2VEE2

American Standard

SLOAN ZURN

Automatic Flush Valves

American Standard—Touchless Sensor models have a chrome finish and a proximity sensor for hygienic hands-free operation with mechanical override. Self-cleaning piston helps prevent clogging and reduces maintenance. Range and flush volume can be adjusted manually or with Remote Control No. 24X050, sold separately on Grainger.com®.

Sloan®—Sensor-activated with exposed, diaphragm-type flushing system. 3-sec. delay. Courtesy Flush™ override button on toilet type only.

Zurn—Include actuator, control stop, internal seals, piston kit, sensor, and vacuum breaker.

Fixture Type	Gal. per Flush	Rough-In	Spud Coupling	Inlet Size	Basic Power Source	Finish	Mfr. Model	Item No.
American Standard Selectronic®								
Toilet	1.1	11½"	1½"	1"	Battery	Chrome	6065111.002	31AA30
	1.1/1.6	11½"	1½"	1"	Battery	Chrome	6065761.002	16T991
	1.28	11½"	1½"	1"	Battery	Chrome	6065121.002	16T987
		11½"	1½"	1"	Battery	Polished Chrome	6066121.002	48ZK06
	1.6	11½"	1½"	1"	Battery	Chrome	6065161.002	16T986
Urinal	0.125	11½"	¾"	¾"	Battery	Chrome	6063013.002	16T990
		11½"	¾"	¾"	Battery	Polished Chrome	6064013.002	48ZK13
	0.5	11½"	¾"	¾"	Battery	Chrome	6063051.002	16T989
	1.0	11½"	¾"	¾"	Battery	Chrome	6063101.002	16T988
Sloan Royal®								
Toilet	1.28	11½"	1½"	1"	Electric	Chrome	Royal 111-1.28 ESS	6UYN2
	1.6	11½"	1½"	1"	Electric	Chrome	Royal 111 ESS	4FEU5
Urinal	1.0	11½"	¾"	¾"	Electric	Chrome	Royal 186-1 ESS	4FEU6
Zurn								
Toilet	1.28	11½"	1½"	1"	Battery	Chrome	ZTR6200EV	22LU02
		11½"	1"	1"	Battery	Polished Chrome	ZER6000AV-HET-CPM	46CE26
	1.6	11½"	1½"	1"	Battery	Chrome	ZTR6200-WS1	22LU03
Urinal	0.125	11½"	¾"	1"	Battery	Chrome	ZTR6203-ULF	38ZL88
	0.5	11½"	¾"	¾"	Battery	Chrome	ZTR6203-EWS	22LU05
	1.0	11½"	¾"	¾"	Battery	Chrome	ZTR6203-WS1	22LU04



No. 16T986



No. 4FEU5

SLOAN

Automatic Flush Valves

- 11½" rough-in
- Include 4 AA batteries

For information on standards, go to Grainger.com®.



No. 2VEF7

ECOS®/G2—Install exposed, battery-powered, sensor-operated flush valves on floor-mounted or wall-hung top spud bowls to help meet ADA requirements. Features include 3-sec. flush delay, manual override button, unit reset, and unit shutdown. 3-yr. warranty. Urinal models have courtesy flush 24 hr. after last flushing cycle. Full units include valve body, tailpiece, and control stop.

SOLIS®—Automatic, sensor-operated flush valves use photovoltaic technology to convert just about any natural or artificial light source into power; no need for electricity. Include LED low-battery indicator, instructional wall plates, vandal-resistant stop cap, and manual override.

Brand and Series	Gal. per Flush	Spud Coupling	Battery Mfr. Model	Battery Item No.	Solar Mfr. Model	Solar Item No.
Toilet Automatic Flush Valve, Inlet: 1" IPS						
Sloan ECOS®	1.1/1.6	1 ½"	ECOS 8111	**2VEF7**	—	—
Sloan G2	1.28	1 ½"	G2 8111-1.28	**2VED5**	—	—
	1.6	1 ½"	G2 8111	**3UU62**†	—	—
	3.5	1 ½"	G2 8110	**3UU61**†	—	—
Sloan Solis	1.1/1.6	1 ½"	—	—	Solis 8111-1.6/1.1	**3ETX8**
	1.28	1 ½"	—	—	Solis 8111-1.28	**3ETX6**
	1.6	1 ½"	—	—	Solis 8111-1.6	**3ETX7**
Urinal Automatic Flush Valve, Inlet: ¾" IPS						
Sloan ECOS®	0.125	¾"	ECOS 8186-0.13 OR	**6UYL5**†	—	—
	0.25	¾"	ECOS 8186-0.25 OR	**5XTG3**	—	—
	0.5	¾"	ECOS 8186-0.5 OR	**5XTG7**	—	—
Sloan G2	1.0	¾"	G2 8186-1	**3UU64**†	—	—
	1.5	¾"	G2 8186	**3UU63**†	—	—
Sloan Solis	0.5	¾"	—	—	Solis 8186-0.5	**5XTG6**
	1.0	¾"	—	—	Solis 8186-1	**3ETX9**
	1.5	¾"	—	—	Solis 8186-1.5	**3ETY4**

Dual Flush Retrofit Kit No. 2VEF9

Dual-Flush—Detect user presence and duration to determine more-efficient effective flush volume—reduced cycle for liquid waste; full cycle for solid waste. Split-button design allows manual activation of either cycle. Include control module, flex tube diaphragm, installation strap wrench, screwdriver device, and 2 instructional wall plates.

Retrofit Kits—Top mount kits fit all Sloan® valve assemblies and do not include valve body, tailpiece, or control stop. They allow a flushometer to be converted from manual to automatic operation for hands-free flushing. Include a full diaphragm assembly.

Brand and Series	For Use With	Gal. per Flush	Flush Mode*	Battery Life Year @ Flushes per Month	Battery Mfr. Model	Battery Item No.	Solar Mfr. Model	Solar Item No.
Toilet Automatic Flush Valve Retrofit Kit, Sensor Range: 15" to 30"								
Sloan	Exposed Flushometers	1.6/1.1	SF	6 years	EBV1004A	**3ETV5**	—	—
Toilet Automatic Flush Valve Retrofit Kit, Sensor Range: 22" to 42"								
Sloan	Sloan OPTIMA Flushometers	1.6	SF	6 yr. @ 4000	—	—	EBV1007A	**4FEZ7**
	Sloan OPTIMA Flushometers	1.6/1.1	SF	6 yr. @ 4000	—	—	EBV1005A	**4FEZ5**
Sloan ECOS®	Exposed Flushometers	1.6/1.1	DF	3 yr. @ 3000	ECOS RESS-C 1.6/1.1	**2VEF9**	—	—
Sloan G2	Sloan Exposed Closet Flushometers	1.6/3.5	SF	3 yr. @ 4000	RESS-C	**3UU59**	—	—
Sloan Solis	Sloan Exposed Closet Flushometers	1.28	SF	6 yr. @ 4000	—	—	Solis RESS-C-1.28	**3ETY1**
	Sloan Exposed Closet Flushometers	1.6	SF	6 yr. @ 4000	—	—	Solis RESS-C-1.6	**3ETY2**
	Sloan Exposed Closet Flushometers	1.6/1.1	DF	6 yr. @ 4000	—	—	Solis DF RESS-C-1.6/1.1	**3ETY5**
Urinal Automatic Flush Valve Retrofit Kit, Sensor Range: 15" to 30"								
Sloan G2	Sloan Royal®, Regal Pro® and Regal® Flushometers	0.25	SF	3 yr. @ 4000	G2 RESS-U-0.25	**5XTG5**	—	—
	Sloan Royal®, Regal Pro® and Regal® Flushometers	0.5	SF	3 yr. @ 4000	G2 RESS-U-0.5	**5XTG4**	—	—
	Sloan Exposed Urinal Flushometers	1.0/1.5	SF	3 yr. @ 4000	G2 RESS-U	**3UU60**	—	—
Sloan Solis	Sloan Royal®, Regal Pro® and Regal® Flushometers	0.25	SF	6 yr. @ 4000	—	—	Solis RESS-U-0.25	**5XTG9**
	Sloan Royal®, Regal Pro® and Regal® Flushometers	0.5	SF	6 yr. @ 4000	—	—	Solis RESS-U 0.5	**5XTG8**
	Sloan Exposed Urinal Flushometers	1.0/1.5	DF	6 yr. @ 4000	—	—	Solis RESS-U	**3ETY3**
Urinal Automatic Flush Valve Retrofit Kit, Sensor Range: 22" to 42"								
Sloan	Sloan OPTIMA Flushometers	1.0	SF	6 yr. @ 4000	—	—	EBV1006A	**4FEZ6**

** DF = double flush. SF = single flush. † Include 4 AA batteries.*

SLOAN
ZURN
American Standard

Automatic Side-Mount Flush Valves



Toilet No. 2VEH8

- 11½" rough-in

Battery powered valves can be used with floor-mounted or wall-hung top and spud bowls. Suitable for left- or right-hand supply; include valve body, tailpiece, control stop, and 4 C batteries. User-friendly 3-sec. delay. 5-yr. manufacturer's warranty, except Zurn models are 3 yr. only. ADA compliant when properly installed. All models meet ASSE 1037, ANSI/ASME A112.19.2, except Zurn models.

Gal. per Flush	Spud Coupling	Brand	Mfr. Model	Item No.
Toilet Automatic Flush Valve, Inlet: 1 in IPS				
1.28	1 ½"	Sloan	SLOAN 111-1.28 DFB SMO	**5XTF9**
	1 ½"	Zurn	ZER6000PL-HET-CPM	**5WYH1**
1.6	1 ½"	Sloan	Sloan 111 DFB SMO	**2LRZ4**
	1 ½"	Zurn	ZER6000AV-WS1-CPM	**2VEH9**
3.5	1 ½"	Sloan	Sloan 110 DFB SMO	**2LRZ5**
	1 ½"	Zurn	ZER6000AV-CPM	**2VEH8**
Urinal Automatic Flush Valve, Inlet: ¾ in IPS				
0.5	¾"	Sloan	SLOAN 186-0.5 DFB SMO	**5XTG0**
	1 ½"	Amer. Std.	6045SM051.002	**448N76**
1.0	¾"	Sloan	Sloan 186-1 DFB SMO	**2LRZ6**
	¾"	Zurn	ZER6003AV-WS1-CPM	**2VEJ2**
0.125	¾"	Zurn	ZER6003AV-ULF-CPM	**6RKG8**
1.5	¾"	Sloan	Sloan 186 DFB SMO	**2LRZ7**
	¾"	Zurn	ZER6003AV-CPM	**2VEJ1**

American Standard

Manual Piston-Type Flush Valves

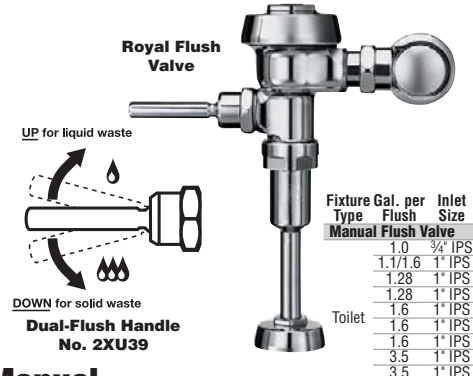


No. 16T981

- Recommended operating pressure: 20 psi (flowing), 80 psi (static)
- 11½" rough-in

Feature self-cleaning brass piston with integral wiper spring that helps prevent clogging and reduce maintenance. Nonhold-open handle, chloramine-resistant EPDM seals. Valves include sweat solder kit, cover tube, and wall flange. ADA compliant.

Description	Gal. per Flush	Inlet Size	Spud Coupling	Mfr. Model	Item No.
Toilet	1.28	1" IPS	1½"	6047121.002	**16T984**
	1.6	1" IPS	1½"	6047161.002	**16T985**
Urinal	0.125	¾" IPS	¾"	6045013.002	**16T981**
	0.5	¾" IPS	¾"	6045051.002	**16T982**
	1.0	¾" IPS	¾"	6045101.002	**16T983**



Dual-Flush Handle No. 2XU39

Manual Dual Flush Valves and Dual Flush Valve Handle—Handle converts existing flush valves to water-conserving units that allow either full or partial flushes: lift handle for liquid waste; push down for solid waste. Handle has a green-colored antimicrobial coating. Include 2 instructional wallplates.

Manual Flush Valves

SLOAN

Exposed valves have free-spinning, vandal-resistant stop caps. Integral vacuum breaker helps prevent back siphoning. ADA-compliant oscillating, nonhold-open handles and an adjustable tailpiece. For information on standards, go to Grainger.com®.

Fixture Type	Gal. per Flush	Inlet Size	Spud Coupling	Rough-In	Flush Valve Design	Mfr. Model	Item No.
Manual Flush Valve							
Toilet	1.0	¾" IPS	¾ in	11 ½ in	Piston	CROWN 111-1.2	**2VED4**
	1.1/1.6	1" IPS	1 ½ in	11 ½ in	Diaphragm	WES111	**2XU40**
	1.28	1" IPS	1 ½ in	11 ½ in	Diaphragm	Royal 111-1.28	**1EPE2**
	1.28	1" IPS	1 ½ in	24 in	Diaphragm	Royal 115-1.28	**6UYN3**
	1.6	1" IPS	1 ½ in	11 ½ in	Diaphragm	Royal 111	**4LW39**
	1.6	1" IPS	1 ½ in	11 ½ in	Diaphragm	REGAL 111 XL	**2VEC7**
	1.6	1" IPS	1 ½ in	27 in	Diaphragm	Royal 116 1.6	**4LW40**
	3.5	1" IPS	1 ½ in	11 ½ in	Diaphragm	Royal 110	**5P009**
	3.5	1" IPS	1 ½ in	11 ½ in	Diaphragm	REGAL 110 XL	**2VEC8**
	3.5	1" IPS	1 ½ in	27 in	Diaphragm	Royal 116	**5P011**
Urinal	0.125	¾" IPS	¾ in	11 ½ in	Diaphragm	Z6003PL-ULF	**46CD88**
	0.13	¾" IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.13	**6UYN5**
	0.25	¾" IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.25	**5XTG1**
	0.5	¾" IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.5	**2VEG3**
	0.5	¾" IPS	¾ in	11 ½ in	Diaphragm	REGAL 186-0.5 XL	**2VEG4**
	1.0	¾" IPS	¾ in	11 ½ in	Diaphragm	Royal 186-1	**4LW43**
	1.0	¾" IPS	¾ in	11 ½ in	Diaphragm	REGAL 186-1 XL	**2VED3**
	1.5	¾" IPS	¾ in	11 ½ in	Diaphragm	Royal 186	**5P013**
	1.5	¾" IPS	¾ in	11 ½ in	Diaphragm	REGAL 186 XL	**2VED2**
	3.5	1" IPS	1 ¼ in	11 ½ in	Diaphragm	Royal 180	**5P012**
	3.5	1" IPS	1 ¼ in	11 ½ in	Diaphragm	REGAL 180 XL	**2VED1**
Dual Flush Handle, For Use With Royal and Regal Flush Valves							
—	—	—	—	—	—	WES212A	**2XU39**

Automatic Flush Valve Retrofit Kits

ADA compliant, except for Nos. 448N68 and 448N69. All include 4 C batteries and installation tools.

Side-Mount—Install without water shutoff. Adjustable sensor range. 24-hr. courtesy flush option. Valve body, supply stop, or vacuum breaker not included, except No. 20CM32 comes with a valve body. No. 24PR18 has a valve that automatically closes upon loss of power or water pressure and requires no reset. No. 448N68 is for Sloan® and Zurn® flush valves. No. 448N69 is for American Standard® and GEM® flush valves. Nos. 2TET9, 2TEU1, and 1GAB3 allow you to slide the unit over the flush valve handle and tighten for fast installation. No. 1GAB3 has a true mechanical override.

Top-Mount—No. 40D676 is all-metal construction with easy battery access. Nos. 25CH55 and 25CH56 have a chrome-plated plastic E-Z Flush® sensor unit with 3-yr. battery life.


Side-Mount

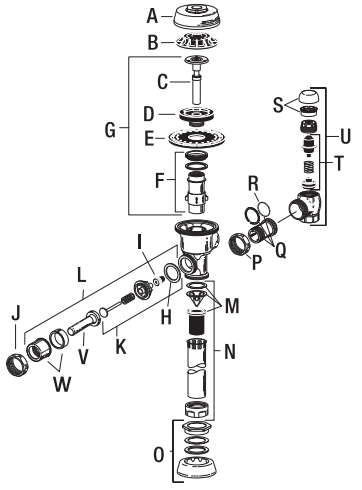

Over-Handle

Brand and Series	Gal. per Flush	Fixture Type	Mounting Type	Sensor Range	Item No.
Automatic Flush Valve					
American Standard Selectronic®	1.28	Toilet	—	15¾" to 31½"	**16T987**
Automatic Flush Valve Retrofit Kit					
Moen Commercial	1.6	Toilet	Top Mount	1" to 18"	**40D676**
Zurn AquaSense® E-Z Flush™	1.0 to 3.5	Toilet/Urinal	Side Mount	12" to 44"	**2VEJ4**
Rubbermaid Commercial	—	Toilet/Urinal	Over the Handle Mount	12" to 48"	**2TET9**
	—	Toilet/Urinal	Over the Handle Mount	12" to 48"	**2TEU1**
Sloan	—	Toilet/Urinal	Side Mount	15" to 42"	**20CM32**
	—	Toilet/Urinal	Over the Handle Mount	26" to 32"	**1GAB3**
Zurn AquaSense® E-Z Flush™	1.0 to 3.5	Toilet/Urinal	Top Mount	6" to 40"	**25CH56**
American Standard®	—	Toilet/Urinal	Side Mount	8" to 48"	**448N68**
American Standard®, GEM®	—	Toilet/Urinal	Side Mount	8" to 48"	**448N69**
Rubbermaid Commercial	—	Toilet/Urinal	Side Mount	8" to 48"	**2TEU2**
Sloan	—	Toilet/Urinal	Side Mount	8" to 54"	**1GAB2**

Manual Flush Valve Repair Parts and Kits

For additional parts, call 1-800-GRAINGER (472-4643). For an even larger assortment of repair parts and kits, go to Grainger.com®.

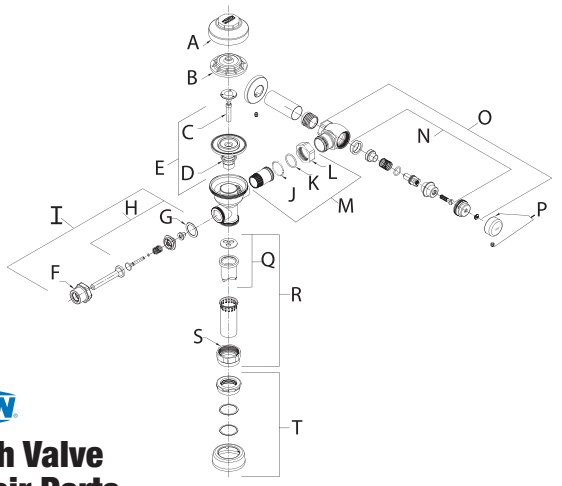
Key	Description	Mfr. Model	Item No.
A	Flush Valve Cover, Royal	A72	**2XU43**
	Outside Cover, Regal	R10	**3ERD6**
B	Inside Cover	A71	**2XU12**
C	Relief Valve, White, Toilet	A19AC	**2XU10**
	Relief Valve, Black, Urinal	A19AU	**2XU11**
	Relief Valve, Green, Toilet/Urinal	A19ALC	**2VEG9**
D	Molded Disc	A15A	**2XJ98**
E	Disc, Black Rubber	A156A	**2XJ96**
F	Guide Assembly, 1.6 GPF, Toilet	A151A	**2VEG5**
	Guide Assembly, 3.5 GPF, Toilet	A152A	**2VEG6**
	Guide Assembly, 4.5 GPF, Toilet	A163A	**2XJ99**
	Guide Assembly, 1.0 GPF, Urinal	A155A	**3EPU5**
G	Diaphragm Assembly, 1.28 gpf, High Efficiency Toilet	A1045A	**4FEU7**
	Diaphragm Assembly, 1.6 GPF, Toilet, Royal	A1041A	**4FB32**
	Diaphragm Kit, 1.6 GPF, Toilet, Regal	A41A	**4LW51**
	Diaphragm Kit, 2.4 gpf, Toilet, Royal	A1044A	**3EPU2**
	Diaphragm Assembly, 2.4 gpf, Toilet, Regal	A44A	**3EPU7**
	Diaphragm Kit, 3.5 GPF, Toilet, Royal	A1038A	**4FB31**
	Diaphragm Kit, 3.5 GPF, Toilet, Regal	A38A	**5P213**
	Diaphragm Kit, 4.5 GPF, Toilet, Regal	A36A	**5P211**
	Diaphragm Assembly, 0.25 gpf Toilet, Regal	A1047A	**5XTF6**
	Diaphragm Kit, 0.5 GPF, Urinal, Royal	A1043A	**2VED7**
	Diaphragm Kit, 0.5 GPF, Urinal, Regal	A43A	**2VED6**
	Diaphragm Kit, 1.0 GPF, Urinal, Royal	A1042A	**4FB33**
	Diaphragm Kit, 1.0 GPF, Urinal, Regal	A42A	**4LW52**
	Diaphragm Kit, 1.5 GPF, Urinal, Royal	A1037A	**4FB30**
	Diaphragm Kit, 1.5 GPF, Urinal, Regal	A37A	**5P212**
Handles			
H	Gasket, Pkg. of 48	A31	**2VEG7**
I	Handle Packet, Pkg. of 12	B39	**2VEH2**
J	Handle Coupling	A6	**2XU42**
K	Handle Repair Kit	B51A	**2XU13**
	Handle Repair Kit	B50A	**5E545**
L	Handle Kit, ADA	B73A	**5E544**
	Handle Kit, ADA, Antimicrobial	B73A-SG	**2VDZ9**
V	Handle Grip Sub Assembly, ADA	B74A	**3EPU8**
W	Socket Assembly	B7A	**5XTH2**
Vacuum Breakers			
M	Vacuum Breaker Repair Kit, Regal	V551A	**5E546**
	Vacuum Breaker Repair Kit, Royal	V651A	**2XU35**
N	High Back Pressure Vacuum Breaker Assembly, ¾" x 9"	V600AA ¾ X 9	**6NB11**
	High Back Pressure Vacuum Breaker Assembly, 1½" x 9"	V600AA 1½ X 9	**6NB12**
	High Back Pressure Vacuum Breaker Assembly, 1¼ x 9"	V600AA 1¼ x 9	**2VEG2**
	Vacuum Breaker Assembly, 1½" x 13½"	V600AA 1 ½ X 13 ½	**3ERF2**
	Vacuum Breaker Assembly, 1½" x 21½"	V600AA 1 ½ X 21 ½	**3ERF3**
	Vacuum Breaker Assembly Assembly and Pipe, 1½ x 15"	V500AA 1½ x 15	**2VEA6**
	Vacuum Breaker Assembly Assembly and Pipe, 1½ x 24½"	V600AA 1½ x 24½	**2VEC6**
	Vacuum Breaker Assembly, ¾" x 9"	V500AA ¾ X 9	**3ERE3**
	Vacuum Breaker Assembly, ¾" x 10½"	V500AA ¾ X 10 ½	**3ERF1**
	Vacuum Breaker Assembly, 1¼" x 9"	V500AA 1 ¼ X 9	**3ERE2**
	Vacuum Breaker Assembly, 1½" x 9"	V500AA 1 ½ X 9	**3ERE4**
	Vacuum Breaker Assembly, 1½" x 10½"	V500AA 1 ½ X 10 ½	**3ERE5**
	Vacuum Breaker Assembly, 1½" x 13½"	V500AA 1 ½ X 13 ½	**3ERE6**
	Vacuum Breaker Assembly, 1½" x 21½"	V500AA 1 ½ X 21 ½	**3ERE7**
	Vacuum Breaker Assembly, 1½" x 24½"	V500AA 1 ½ X 24 ½	**3ERE8**
	Vacuum Breaker Assembly, 1½" x 32"	V500AA 1 ½ X 32	**3ERE9**
O	Spud Coupling Assembly, ¾"	F5AW	**2XU30**
	Spud Coupling Assembly, 1¼"	F5AU	**2XU29**
	Spud Coupling Assembly, 1½"	F5AT	**2XU28**
	Friction Ring, 1½" Royal and Regal, Pkg. of 48	F3	**4AYE1**
Tailpiece/Stop Repair			
P	Tail Piece Assembly	H550	**2VEH6**
	Tail Piece Assembly, 2⅛", Adjustable	H551A	**2XU33**
Q	Tail Piece Assembly, 3⅛"	H551A 3/16	**3ERC1**
	Tail Piece Assembly, 4⅛"	H551A 4/16	**3ERC2**
R	O-Ring, Pkg. of 24	H553A	**2XU34**
S	Vandal Resistant Stop Cap, ¾"	H1009A	**4LW58**
	Vandal Resistant Stop Cap, 1"	H1010A	**4LW59**
T	Control Stop Repair Kit, ¾"	H543ASD	**2XU32**
	Control Stop Repair Kit, 1"	H541ASD	**2XU31**



	Complete Control Stops		
U	Vandal-Resistant, ¾", Adjustable	H700A	**2VED9**
	Vandal-Resistant, 1", Adjustable	H700A	**2VED8**
	Adjustable Screwdriver Control Stop for Regal Closet Flushometers, 1"	H-710-A	**2VEC2**
	Control Stop for Regal Closet Flushometers, ¾"	H710A	**2VEC3**
	Adjustable Screwdriver Control Stop for Regal Closet Flushometers, 1"	H790A	**2VEC4**
	Control Stop for Regal Urinal Flushometers, ¾"	H790A	**2VEC5**
Miscellaneous Parts			
	Hydraulic Actuator Cartridge Assembly	HY32A	**2VEA5**
	Hydraulic Actuator Assembly	Hy83A	**2VEE8**
	Super Wrench	A50	**2VDZ8**
	Wheel Handle Stop Repair Kit	H541AWH	**2VEE1**
	Disc	A56AA	**2VEG8**
	Washer Set Repair Kit	A156AA	**2XJ97** *
	Repair Kit, 1" Connection, w/Stop	H1006A	**5XTH3**
	Slip Joint Coupling, 1½"	F2AT	**2VEA2**
	Slip Joint Coupling, 1½", Pkg. of 2	F2AA	**2VEA4**
	Spud Coupling Assembly, 1½ x 3"	F56A	**2VEA3**
	Spud Coupling Assembly, ¾"	F54A	**3ERA6**
	Handle Assembly	B32A	**2VEH1**
	Spud Coupling Assembly, 1½"	A1010A	**3EPU1**
	Toilet Valve Bodies	A3A	**3EPU6**
	Push Button Assembly	C70A	**3EPU9**
	Stop Cap	H573A	**3ERC6**
	Stop Cap	H582	**3ERC7**
	Friction Ring, 1½" x 1¼", Pkg. of 24	G44	**4AYE5**
	Gasket, 1½", Pkg. of 48	VBF511/2	**4AYE9**
	Inside Cover, Old Style (pre 1971)	A11	**3EPU3**
	Piston Assembly	CN1002A	**3EPV1**
	Piston Assembly	CN1003A	**3EPV2**
	Stop Cover Bonnet	H622	**3ERC9**
	Wheel Handle Control Stop, 1"	H730A	**3ERD1**
	Manual Flush Valve Locking Devices, Pkg. of 12	H552	**4AYE7**
	Gasket, 1¼", Pkg. of 48	VBF511/4	**4AYF1**

Type	GPF	Dual Filtered Diaphragm Kit† Mfr. Model	Dual Filtered Diaphragm Kit† Item No.	Standard Diaphragm Kit† Mfr. Model	Standard Diaphragm Kit† Item No.
Master Repair Kits for Sloan Royal & Regal Flushometers (Incl. Individual Pieces of G, K, M, & R)					
Urinal	0.5	A1106A	**2XU37**	R1011A	**6UYN0**
	1.0	A1107A	**2XJ95**	R1005A	**2VEE7**
	1.5	A1108A	**2XU38**	R1002A	**2VEE4**
Toilet	1.6	A1101A	**2XJ94**	R1004A	**2VEE6**
	2.4	A1103A	**3EPU4**	R1012A	**6UYN1**
	3.5	A1102A	**2XU36**	R1003A	**2VEE5**
	4.5	—	—	R1001A	**2VEE3**

**** Includes D, E, H, I individual pieces, not full package quantity as noted in table. †Kits include diaphragm, handle repair kit, and vacuum breaker.***



ZURN

Flush Valve Repair Parts

Key	Description	For Use With Series	Mfr. Model	Item No.
Manual Flush Valve Outside and Inside Covers				
A	Outside Brass Cover, Chrome Plate	Z6000, Z6001, Z6003, Z6010, Z6014, Z6017	P6000-LL-CP	**4HCX5**
B	Inside Cover, Plastic		P6000-L	**4HCX6**
Flush Valve Relief Valves				
C	Closet Relief Valve	Z6000, Z6010, Z6014	P6000-EC13	**4HCV1**
	Urinal Relief Valve	Z6001, Z6003, Z6017	P6000-EU13	**4HCW3**
Flush Valve Diaphragm Repair Parts				
D	Guide Assy.		P6000-EG	**4HCW1**
E	Toilet Kit, 1.28 gpf	Z6000, Z6010, Z6014	P6000-ECA-HET	**25CH53**
	Toilet Kit, 1.6 gpf		P6000-ECR-WS1	**4HCV7** *
	Toilet Kit, 1.6 gpf		P6000-ECA-WS1	**4HCV3** †
	Toilet Kit, 3.5 gpf		P6000-ECR-WS	**4HCV6** *
	Toilet Kit, 3.5 gpf		P6000-ECA-WS	**4HCV2** †
	Toilet Kit, Water Save, 3.5 gpf	ZR6000AV	PR6000-EC-WS	**4UZP6**
	Toilet Kit, 4.5 gpf	Z6000, Z6010, Z6014	P6000-ECA-FF	**4UZL5**
	Urinal Kit, 1.0 gpf	Z6001, Z6003, Z6017	P6000-EUR-WS1	**4HCW9** *
	Urinal Kit, 1.0 gpf		P6000-EUA-WS1	**4HCW5** †
	Urinal Kit, 1.5 gpf		P6000-EUR-WS	**4HCW8** *
	Urinal Kit, 1.5 gpf		P6000-EUA-WS	**4HCW4** †
	Urinal Kit, 3 gpf		P6000-EUA-FF	**4UZL6**
Flush Valve Handle Repair Parts				
F	Handle Nut Coupling	Z6000, Z6001, Z6003, Z6200, Z6201, Z6203	P6000-M1-CP	**4HCX9**
G	Handle Gasket	Z6200, Z6201, Z6203, Z6210	P6000-M10	**4HCX8**
H	Handle Repair kit	Z6000, Z6001, Z6003, Z6200, Z6201, Z6203	P6000-MK	**4HCY2**
I	ADA Handle Assy.	Z6200, Z6201, Z6203, Z6210	P6000-M-ADA	**4HCY1**
Flush Valve Tailpiece and Stop Repair Parts				
J	Tailpiece Locking Ring	Z6100AV, Z6011, Z6140, Z6142, Z6143, Z6144, Z6150, Z6152, Z6154, Z6155, Z6190, Z6195, Z6196	P6000-C30	**4HCU5**
K	O-Ring, For Use With Tailpiece		P6000-C31	**4HCU6**
L	Stop Nut, Coupling, Use With Control Stop	Z6000, Z6001, Z6003	P6000-C32-CP	**4HCU7**
M	Tailpiece Assy., 2⅛"	ZER6000, ZER6001, ZER6003, Z6200PEV, ZEMS6000AV-IS, ZEMS6003AV-IS	P6000-J1	**4HCX4**
N	Control Stop Repair Kit For 1 and ¾"	Z6000, Z6001, Z6003, Z6140, Z6142, Z6143, Z6144, Z6150, Z6152, Z6154, Z6155, Z6190, Z6195, Z6196	P6000-D-SD	**4HCU8**
O	Control Stop Repair Kit For 1 and ¾"	Z6000, Z6001, Z6003,Z6200, Z6201, Z6203, ZH6000, ZH6001, ZH6003, ZEMS6000, ZEMS6001, ZEMS6003, ZER6000, ZER6001, ZER6003, ZTR6200, ZTR6201, ZTR6203, Z6200PEV, ZTS6200EV,	P6000-C-SD-CP	**34TE20**
P	Cap, Vandal Resistant, ¾ and 1"	ZER6000, ZER6001, ZER6003, Z6200PEV, ZEMS6000AV-IS, ZEMS6003AV-IS, ZH6000, ZH6001, ZH6003	P6000-VC	**4HCY3**
Flush Valve Vacuum Breaker Repair Parts				
Q	Vac. Breaker Repair Kit, Toilet, Top	Z6000, Z6001, Z6003,Z6200, Z6201, Z6203, ZH6000, ZH6001, ZH6003, ZEMS6000, ZEMS6001, ZEMS6003, ZTR6200, ZTR6201, ZTR6203	P6000-B-HP	**25CH47**
R	Flush Tube, 1½ x 9"	ZEMS6000	P6000-A-AA-CP	**4HCU2**
	Flush Tube/Vac. Breaker, 1¼ x 9"	ZTR6201, ZTR6203, ZEMS6001, ZEMS6003	P6001-A-AA-CP	**4HCY4**
	Flush Tube/Vac. Breaker, ¾ x 8½"		P6003-A-AA-CP	**4HCY5**
	Flush Tube/ Vac. Breaker	ZEMS6000	P6000-2-A-AA-CP	**4UZN3**
	Flush Tube/ Vac. Breaker, For 2VEH8	ZER6000	P6000-30-A-AA-CP	**5WYH0**
	Flush Tube, 1½ x 24"	ZEMS6000AV-HET, ZEMS6000AV-HET-IS, ZEMS6000AV-WS1, ZEMS6000AV-WS1-IS	P6000-3-A-AA-CP	**4HCU1**
S	Vac. Breaker Nut, ¾", Inlet 1½"	ZTR6200, ZTR6201, ZTR6203	P6000-AA-CP	**4HCU3**
Flush Valve Spud Coupling Assemblies and Friction Rings				
T	Escutcheon & Coupling Assy., 1½"	Z6000, Z6014, Z6096	P6000-H	**4HCX3**
	Escutcheon & Coupling Assy., ¾"	Z6001, Z6201, Z6203, ZEMS6001, ZEMS6003, ZTR6201	P6003-H	**4HCY6**

Description	For Use With Series	Mfr. Model	Item No.
Toilet & Urinal Flushometer Rebuild Kits			
Toilet, 1.28 gpf	Z6000, Z6010,Z6014, Z6096	P6000-ECA-HET-RK	**46CD58**
Toilet, 1.6 gpf		P6000-ECR-WS1-RK	**4HCV8** *
Toilet, 1.6 gpf		P6000-ECA-WS1-RK	**4HCV4** †
Toilet, 3.5 gpf		P6000-ECR-WS-RK	**4HCV9** *
Toilet, 3.5 gpf		P6000-ECA-WS-RK	**4HCV5** †
Toilet, 4.5 gpf		P6000-ECA-FF-RK	**3KLH4**
Urinal, 1.0 gpf	Z6001, Z6003, Z6017, Z6099	P6000-EUR-WS1-RK	**4HCX1** *
Urinal, 1.0 gpf		P6000-EUA-WS1-RK	**4HCW6** †
Urinal, 1.5 gpf		P6000-EUR-WS-RK	**4HCX2** *
Urinal, 1.5 gpf		P6000-EUA-WS-RK	**4HCW7** †
Flush Valve Repair Tools			
Hex Wrench	ZERK-CCP, ZERK-CP, ZERK-CPM	PERK6000-W-TC	**5WYF6**
Automatic Flush Valve Sensor and Cover Repair			
Oval Style Metal Cover	ZR6000, ZR6001, ZR6003	PR6000-MC-OB-G3	**4UZN2**
Metal Cover, For 2VEH8, 2VEJ1, 2VEJ4	ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-CPM-LY	PERK6000-L-CPMCR	**5WYF2**
Battery Drawer, For 2VEH8, 2VEJ1, 2VEJ4	ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-C, ZERK-CCP, ZERK-CPM-LY	PERK6000-BD	**5WYF5**
Sensor Module, For 2VEH8, 2VEJ1, 2VEJ4	ZER6152, ZER6195, ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-C, ZERK-CCP, ZERK-CPM-LY	PERK6000-SR	**5WYF7**
Actuator Assy., Flush Valve	ZEMS6000AV-HET, ZEMS6000AV-HET-IS, ZEMS6000AV-WS1, ZEMS6000AV-WS1-IS	PEMS6000-HYM	**5WYG3**
Miscellaneous Parts			
Handle Plunger Repair Kit	ZERK-CCP, ZERK-CP, ZERK-CPM, ZERK-CPM-LY	PERK6000-RK	**5WYF8**
E-Z Flush® Handle Plunger Repair Kit		PERK6000-MRK	**5WYF9**
Repair Kit For Hydraulic Actuater	ZH6003AV, ZH6611AV-MBP	PH6000-HYA11	**5WYG5**
Hydraulic Handle Plunger Assy.		PH6000-HYM	**5WYG6**
Stop Valve Repair Kit, ¾"	Z6003-EWS-YB-YC, Z6003-WS1-YB-YC, Z6003-YB-YC	PS6003-D	**4HCY8**
Ground Joint Control Stop Adapter	Z6000,Z6200	P6000-J10	**4UZN4**
Chemical Resistant Toilet Diaph. Repair Kit, 1-3.5 gpf	Z6000, Z6010, Z6014,	P6000-ER15	**4HCW2**

Zurn AquaFlush. † Zurn AquaVantage.

Automatic Flush Valve Repair Parts



SLOAN
No. 4FB36

Description	Mfr. Model	Item No.
Hex Wrench	EBV119	**3EPX4**
Push Button Assembly	EBV123A	**5XTH4**
Inside Cover Assembly, Incl. Solenoid	EBV145A	**2XU50**
G2 Sensor Assembly, Toilet	EBV146A-C	**2XU22**
G2 Sensor Assembly, Urinal	EBV146A-U	**2XU23**
Coupling Ring	EBV14	**3EPX7**
Inside Cover Assembly, Incl. Solenoid	EBV21A	**2XU52**
Strap Wrench	EBV22	**3EPX8**
Metal Cover	EBV55A	**3EPY1**
Metal Cover with Override Button	EBV60A	**2XU54**
Cover Gasket	EBV67	**2VEH3**
Volume Regulator, White, Pkg. of 6	EBV102-1	**2XU48**
Inside Cover	EBV1010A	**5XTF7**
Handle Cap	EBV1017A	**3EPW9**
Flex Tube Diaphragm Kit, Toilet, Green/White	EBV1020A	**4FB36**
Flex Tube Diaphragm Kit, 2.4 gpf Toilet	EBV1021A	**6UYL4**
Flex Tube Diaphragm Kit, Urinal, Black/Green	EBV1022A	**4FB37**
Flex Tube Diaphragm Kit, Urinal, Green	EBV1023A	**2VEE9**
Diaphragm Assembly, 0.25 gfp, High Efficiency Urinal	EBV1025A	**5XTF8**
Flex Tube Diaphragm Kit, 1.28 gpf, High Efficiency Toilet	EBV1024A	**4FEU8**
Override Button	EBV1042A	**3EPX3**
Cover Assembly, Electronic Dual Flush, for Solis	EBV311A	**4FEU9**
Cover Assembly, Single Flush, for Solis	EBV309A	**4FEV1**
Electronic Module, Toilet, for Solis	EBV312A-C	**4FEV2**
Electronic Module Dual Flush, Toilet	WES33A	**4FEV4**
Cover Plate	EL201	**4FEV5**
G2 Electronic Module, Toilet	EBV129A-C	**2XU17**
G2 Electronic Module, Urinal	EBV129A-U	**2XU18**
Sensor Assembly	EBV138A	**3EPX6**
Override Button Assembly, Includes Screws/Hex Wrench	EBV130A	**2XU19**
Button Cover Assembly	WES23A	**3ETY7**
Lens Window Cover	EBV131	**2VEA7**
Cover Assembly	EBV142A	**2XU49**
Solenoid Assembly, Toilets and Urinals	EBV136A	**2XU20**
Solenoid Assembly, Toilets and Urinals, Old Style	EBV144A	**2XU21**
Solenoid Assembly for Exposed Hardwired Valves	EL124-2	**3EPY3**
Solenoid Actuator Cartridge Assembly	EL128A	**2XU56** †
Solenoid Assembly for Concealed Hardwired Valves	EL138-2	**3EPY4**
Override Switch	EL141A	**3EPY5**
Sensor Repair Kit, Urinal	EL1500	**2XU24**
Sensor Repair Kit, Toilet	EL1500-L	**2XU25**
Sensor Replacement Kit, Lavatory	EL1500-LL	**3EPY6**
Solenoid Shaft Assembly	EL163A	**2VEA1** *
Solenoid Coil	EL165-2	**3EPY7**
Sensor Assembly	EL3500A	**3EPY8**

Includes gasket, plunger, plunger spring, and solenoid shaft. † Includes spring, O-ring, plunger guide, solenoid valve seat, and valve piston assembly.

Elongated Tankless Toilets

American Standard ZURN SLOAN

For Toilet Seats, see page 2758.

- White, vitreous china

Tankless toilets draw on high-pressure water supplies to deliver forceful flushing in a single flush. They work with a flush valve (flushometer) sold separately, see Grainger.com®, that connects directly to wall or floor plumbing line. High-pressure flush reduces water use and reduces chance of clogs or backups. Tankless toilets have a louder flush, but refill faster and cleaner.

Wall-Mount with Top Spud and Back Outlet—Top spud works with exposed flush valve for unblocked access. Back outlet connects to wall waste line.

Wall-Mount with Back Spud and Back Outlet—Back spud works with a concealed flush valve to prevent tampering. Back outlet connects to wall waste line.

Floor-Mount with Top Spud & Bottom Outlet—Top spud connects to flushometer and has unblocked access during maintenance. Bottom outlet connects to floor waste line.

Wall-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Back Outlet Bowl—Flushometer sits atop rear rim of bowl for unblocked access. Top spud connects to the flush valve and back outlet connects to wall waste line.

Floor-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Bottom Outlet Bowl—Flushometer sits atop rear rim of bowl for unblocked access. Top spud connects to the flush valve and bottom outlet connects to floor waste line.



Toilet Bowl
No. 20HK93



Toilet Kit
No. 5NFL4

Toilet Product Type	Gal. per Flush	ADA Compliance	Brand and Series	Spud Connection Size	Rim Height	Rough-In	Mfr. Model	Item No.	
Wall-Mount with Top Spud & Back Outlet									
Bedpan Holding Toilet Bowl	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	2633101.020	**20HK94**	
	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	3352101.020	**20HK97**	*
Toilet Bowl	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	2257101.020	**20HK93**	
	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	3351101.020	**20HK96**	*
	1.28 to 1.6	Yes	Am. Std. Afwall® FloWise® ADA Retrofit	1 ½ in	16⅛"	Wall Hung	2294011EC.020	**1YHY6**	*
	1.6	Yes	Am. Std. Rapidway™	1 ½ in	15½"	Wall Hung	3445J101.020	**49JM58**	
Wall-Mount with Back Spud & Back Outlet									
Toilet Bowl	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	2634101.020	**20HK95**	
	1.1/1.6	Yes	Am. Std. Afwall® Millennium™ FloWise®	1 ½ in	15"	Wall Hung	3353101.020	**20HK98**	*
	1.6	Yes	Am. Std. Rapidway™	1 ½ in	15½"	Wall Hung	3445L101.020	**49JM59**	
Floor-Mount with Top Spud & Bottom Outlet									
Bariatric Toilet Bowl	1.28 to 1.6	Yes	Am. Std. Right Width™ FloWise® ADA	1 ½ in	17⅛"	10" or 12"	3641001.020	**4TMH7**	
Bedpan Holding Toilet Bowl	1.1/1.6	Yes	Am. Std. Madera™ FloWise®	1 ½ in	16½"	10" or 12"	3462001.020	**38R062**	*
Toilet Bowl	1.1/1.6	No	Am. Std. Madera™ FloWise®	1 ½ in	15"	10" or 12"	3451001.020	**1YHZ1**	*
	1.1/1.6	No	Am. Std. Madera™ FloWise®	1 ½ in	15"	10" or 12"	2234001.020	**1ZKZ4**	
	1.1/1.6	Yes	Am. Std. Madera™ FloWise®	1 ½ in	16½"	10" or 12"	3461001.020	**1YHZ2**	*
	1.1/1.6	Yes	Am. Std. Madera™ FloWise®	1 ½ in	16½"	10" or 12"	3043001.020	**1ZKZ3**	
Wall Mount Tankless Toilet Kits with Flush Valve & Top Spud, Back Outlet Bowl									
Flush Valve Toilet	1.1	Yes	Am. Std. Afwall® Millennium™ FloWise®	—	15"	Wall Hung	2856111.020	**38UP32**	*
	1.1	Yes	Zurn One®	—	15"	5¼" or 7¼" to 9¼" for ADA	Z5615.272.01.78.00	**46CD73**	
	1.1/1.6	Yes	Sloan Efficiency®	—	17"	11½"	WETS2052.1201	**5NFL5**	†
	1.28	Yes	Sloan Efficiency®	—	17"	11½"	WETS2050.1041	**5NFL4**	
	1.28	Yes	Zurn One®	—	15"	5¼" or 7¼" to 9¼" for ADA	Z5616.213.00.00.00	**46CD75**	
Floor-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Bottom Outlet Bowl									
Flush Valve Toilet	1.1	Yes	Am. Std. Madera™ FloWise®	—	16½"	10" or 12"	3461511.020	**38UP38**	*
	1.1/1.6	No	Sloan Efficiency®	—	15"	10" or 12"	WETS2002.1201	**5NFL3**	†
	1.28	Yes	Zurn One®	—	15"	10" or 12"	Z5655.213.00.00.00	**46CD80**	

** EverClean® surface. † Double flush.*

Elongated Gravity Toilet Bowls and Tanks

American Standard GERBER

- White vitreous china

Toilets draw water from their attached tank to supply a quieter, low-pressure flush in low-traffic settings (20 to 30 flushes per day). These fixtures rely on gravity to move water from the tank into the toilet bowl for flushing. Separate bowl-and-tank design allows components to be replaced individually during installation and maintenance.

Floor-Mount Toilet Bowls—Toilet bowls pair with a gravity tank to form a two-piece toilet. These fixtures fasten to the floor for stability and have mounting holes for attaching a tank.

Gravity Toilet Tanks—Tanks pair with a gravity-style bowl to form a two-piece toilet. These fixtures house the flushing mechanism and other working parts of the toilet. They have mounting holes for attaching a bowl and a cover for keeping dust and debris out of the tank.



Toilet Bowl
No. 6NWD7



Toilet Tank
Top Button
No. 29VL45



Toilet Tank
Left Hand
Trip Lever
No. 29VL13

Gal. per Flush	ADA Compliance	Brand and Series	Spud Connection Size	Rim Height	Rough-In	Mfr. Model	Item No.
Floor-Mount Toilet Bowls							
1.0/1.6	No	Am. Std. H2Option® Right Height™	⅜ in	16½"	12"	3705216.020	**6NWD7**
1.1/1.6	Yes	Gerber Maxwell® Dual Flush Ergoheight™	2 in	16½"	10" or 12"	21-128	**29VL47**
	Yes	Gerber Maxwell® Dual Flush Ergoheight™	2 in	16½"	10" or 12"	21-128	**29VL48**
1.28	Yes	Am. Std. Champion® PRO™	⅜ in	16½"	12"	3195A101.020	**16T992**
	Yes	Am. Std. Heritage™ VorMax™	⅜ in	16½"	12"	3870A101.020	**45NC84**
	Yes	Am. Std. Champion® PRO™	⅜ in	16½"	12"	3517A101.020	**16T996**
1.28 to 1.6	Yes	Gerber Viper™ Ergoheight™	2 in	17"	10", 12", or 14"	VP-21-528	**29VL25**
	Yes	Gerber Avalanche™ Ergoheight™	2 in	17"	10" or 12"	AV-21-828	**29VL16**
	Yes	Gerber Viper™ Ergoheight™	2 in	17"	10", 12", or 14"	VP-21-528	**29VL31**
1.6	No	Am. Std. Champion® PRO™	⅜ in	15"	12"	3517C101.020	**16T997**

Gal. per Flush	Flush Handle	ADA Compliance	Brand and Series	Mfr. Model	Item No.	Shipping Qty.	
Toilet Tanks							
1.1/1.6	Top Button	No	Gerber Maxwell SE®	DF-28-190	**29VL45**	1	
	Top Button	No	Gerber Maxwell SE®	DF-28-190	**29VL46**	6	
1.28	Left Hand Trip Lever	No	Gerber Avalanche®	WS-28-890	**29VL13**	1	
	Left Hand Trip Lever	No	Gerber Avalanche®	WS-28-890	**29VL21**	6	
	Left Hand Trip Lever	No	Gerber Viper™	WS-28-590	**29VL30**	1	
	Left Hand Trip Lever	No	Gerber Viper™	WS-28-590	**29VL36**	6	
	Left Hand Trip Lever	Yes	Am. Std. Cadet® PRO™	4188A104.020	**16T998**	1	*
	Left Hand Trip Lever	Yes	Am. Std. Cadet® PRO™	4188B104.020	**16U001**	1	
	Left Hand Trip Lever	Yes	Am. Std. Champion® PRO™	4225A104.020	**16T993**	1	*
	Left Hand Trip Lever	Yes	Am. Std. Heritage™ VorMax™	4270A104.020	**45NC85**	1	*
	Right Hand Trip Lever	No	Am. Std. Cadet®	4188A105.020	**16T999**	1	*
	Right Hand Trip Lever	Yes	Am. Std. Champion® PRO™	4225A105.020	**16T994**	1	*
1.6	Left Hand Trip Lever	No	Gerber Avalanche®	AV-28-890	**29VL14**	1	
	Left Hand Trip Lever	No	Gerber Avalanche®	AV-28-890	**29VL22**	6	
	Left Hand Trip Lever	No	Gerber Viper™	VP-28-590	**29VL28**	1	
	Left Hand Trip Lever	No	Gerber Viper™	VP-28-590	**29VL34**	6	

** Includes EZ-Install tools.*

American Standard

GERBER



Toilet Bowl
Back Outlet
No. 5NTW1



Toilet Tank
No. 29VL39

Pressure-Assist Elongated Toilets and Tanks

Toilets provide a strong flush like tankless toilets without requiring a high-pressure water supply. They're typically used in high-traffic settings where water pressure is too low for a tankless toilet. These fixtures have a pressure vessel within their water tank that pressurizes air and releases it with the water for a high-powered flush.

Floor-Mount Toilet Bowls with Back Outlet—Back outlet fastens to the floor and has a back connection to a wall waste line.

Floor-Mount Toilet Bowls with Bottom Outlet—Bottom outlet fastens to the floor and has a bottom connection to a floor waste line.

Toilet Tanks—House the pressure vessel, flushing mechanism, and other working parts of the toilet. These fixtures have mounting holes for attaching to a pressure-assist toilet bowl. Cover keeps dust and debris out of the tank.

Gal. per Flush	Rough-In	ADA Compliance	Spud Connection Size	Rim Height	Brand and Series	Mfr. Model	Item No.	Shipping Qty.
Floor-Mount Toilet Bowls with Back Outlet								
1.1/1.6	10 in or 12 in	Yes	⅜ in	15"	Am. Std. Yorkville™	3701001.020	**5NTW2**	1
	10 in or 12 in	Yes	1 ½ in	16½"	Am. Std. Yorkville™ Right Height™	3703001.020	**5NTW1**	1
Floor-Mount Toilet Bowls with Bottom Outlet								
1.1/1.6	12 in	No	⅜ in	15"	Am. Std. Cadet® FloWise® Right Height™	3481001.020	**4TMG9**	1
	10 in, 12 in, or 14 in	No	2 in	14½"	Gerber Ultra Flush®	21-372	**29VL49**	1
	10 in, 12 in, or 14 in	No	2 in	14½"	Gerber Ultra Flush®	21-372	**29VL50**	6
	12 in	Yes	⅜ in	16½"	Am. Std. Cadet® FloWise® Right Height™	3483001.020	**4TMG8**	1
	10 in, 12 in, or 14 in	Yes	2 in	17"	Gerber Ultra Flush® Ergoheight™	21-377	**29VL43**	1
	10 in, 12 in, or 14 in	Yes	2 in	17"	Gerber Ultra Flush® Ergoheight™	21-377	**29VL44**	6
1.28	10 in, 12 in, or 14 in	No	2 in	15"	Gerber Ultra Flush®	HE-21-372	**29VL12**	1
	12 in or 14 in	Yes	2 in	17"	Gerber Ultra Flush® Ergoheight™	HE-21-377	**29VL19**	6

Gal. per Flush	Flush Handle	ADA Compliance	Brand and Series	Mfr. Model	Item No.	Shipping Qty.
Toilet Tanks						
1.1	Left Hand Trip Lever	Yes	Am. Std. Yorkville™ Cadet®	4142100.020	**4TMH1**	1
1.28	Left Hand Trip Lever	No	Gerber Ultra Flush®	HE-28-380	**29VL09**	1
	Left Hand Trip Lever	No	Gerber Ultra Flush®	HE-28-380	**29VL17**	6
1.6	Left Hand Trip Lever	No	Gerber Ultra Flush®	28-380	**29VL39**	1
	Left Hand Trip Lever	No	Gerber Ultra Flush®	28-380	**29VL40**	6



No. 52VG57

SLOAN FLUSHMATE

Flushmate® System

Pressurized flush eliminates double flush and clogs and saves water. Fewer moving parts extends service. If toilet tank includes a flush handle, Handle Replacement Kit No. 30KE38 is also required. Flush Cartridge No. 1ATP5 is a replacement part for most Flushmate systems.

Note: Flushmate system is not sold as a retrofit component for a gravity-fed toilet.

Intelli-Flush™ No. 2VRN9—Enables touchless, electronic sensor operation of existing Flushmate units to reduce the spread of bacteria and recurring odors. Include wall-mounted sensor, flush module, battery pack, batteries, override button, and chrome trim.

Item	For Use with Series	Mfr. Model	Item No.
Pressure Assist Flushing Systems			
Pressure Assist Flushing System	503 Series	M-101526-F31	**3ETV1**
	500 Series, 501 Series, 501-A Series, 501-B Series, F3B series	M-101526-F3B	**30KE37**
	503 Series, 504 Series	K-100101	**2VRN9**
	503 Series	M-101526-F31K	**52VG57**
	503 K-4404	M-101526-F32	**29FJ05**
	500 Series, 501 Series, 501-A Series, 501-B Series, F3B series	M-101526-F3BK	**39AP14**
Replacement Parts			
Flush Valve Cartridge	500 Series, 501 Series, 501-A Series, 501-B Series, 503 Series, 504 Series	C-100500-KIT	**1ATP5**
Anti-Siphon Valve	Flushmate	BU100505-KIT	**1ATP7**
Cartridge Removal Wrench	503 K-4404	ST100500	**15Z025**
Gasket	503 Series, 504 Series	E-205288	**15Z026**
Handle Assembly	503 Series	AP300503	**30KE38**

GA GRAINGER APPROVED

korky

SUPPLIER DIVERSITY

Fluidmaster

American Standard

DANCO

HydroClean

Kissler

db dearborn

HARVEY

Ferrnco

ZURN

HERCULES

Oatey

Gravity Toilet Repair Parts and Toilet/Urinal Installation Parts



No. 1APG7



No. 6KVX9

	Brand	Mfr. Model	Item No.
A. Tank Levers			
Toilet Trip Lever	GA	22UR91	**22UR91**
Classic Trip Lever	Korky	6050GR	**48UL46**
Euro Style Trip Lever	Fluidmaster	Pro 64	**1APJ9**
Right Hand, Trip Lever	Am. Std.	738494-0020A	**45A208**
Trip Lever	Am. Std.	738899-0020A	**45A205**
Trip Lever, Chrome	Am. Std.	738903-0020A	**45A203**
Trip Lever, Satin	Am. Std.	738995-2950A	**45A202**
Trip Lever Assembly, Metal	Am. Std.	738837-2950A	**45A217**
Trip Lever Assembly, Plastic	Am. Std.	047242-0200A	**45A210**
Euro Style Toilet Trip Lever, Euro Style	GA	22UR90	**22UR90**
B. Flush Valves and Flush Valve Repair Parts			
Dual Flush Converter Kit	Danco	HYR270	**4NWC9**
Flush Valve, Black, for Lexington Tanks	Am. Std.	047250-0070A	**6NWT4**
Flush Valve, Bolted, for Champion® 4	Am. Std.	3280.040-0070A	**6NWT6**
Flush Valve, White, for Cadet® 3	Am. Std.	738921-100.0070A	**6NWU5**
Flush Valve Gasketfor Champion® 4	Am. Std.	7301111-0070A	**6NWT8**
Plastic Dual Flush Valve, Toilet	Am. Std.	7381091-400.0070A	**20XU42**
C. Fill Valves			
Antisiphon w/Leak Sentry™	Fluidmaster	400LSG	**1TLZ4**
Fill Valve, Anti-Siphon	Fluidmaster	400A	**1APG7**
Fill Valve w/Brass Shank	Fluidmaster	Pro 45B	**1APJ4**
Fill Valve w/Calibration to Reduce Water Usage	HydroClean	HC550	**4NWC5**
Fill Valve w/Cleaning Tube, Calibration to Reduce Water Usage and Leak Alarm	HydroClean	HC660	**4NWC7**
PRO GRADE® Fill Valve Fits 1.28, 1.6 & 3.5 GPF Toilets	Korky	528PRO	**48H472**
QuietFill® Fill Valve	Korky	528	**15W944**
Ultraquiet Operation	Fluidmaster	Pro 45	**1APJ1**
WaterWi$e™ Leak Detecting Fill Valve	Korky	528Z	**4KTF7** *
D. Flappers and Seals			
3" Universal Fit (Repl. All 3" Flappers), Fits All Brands, Red Chlorine Resistant Rubber	Korky	3060BP	**6KVX9**
Blended Vinyl, Chlorine Resistant, Red, Most Toilets	Fluidmaster	Pro 54	**1APJ5**
Blended Vinyl, Chlorine Resistant, Red, w/Adjustable Float	Fluidmaster	Pro 55	**1APJ6**
EasyFix® Flush Valve Repair Kit, Incl. Premium Flapper, Repl. Flush Valve Seat & Silicone Sealant	Korky	2003BP	**34D330**
Red Chlorine Resistant Rubber, Fits Older Style Brass Flush Valves	Korky	2000BP	**34D328**

**** Valves help protect against flapper leaks and hang-ups. † No. 1RLU5 has a flow adjustment screw to regulate or shut off hot water flow.***

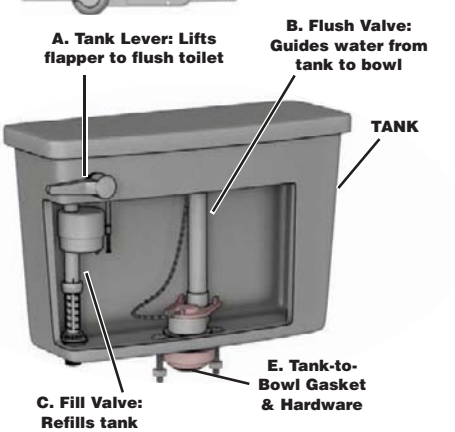
CONTINUED

Gravity Toilet Repair Parts and Toilet/Urinal Installation Parts

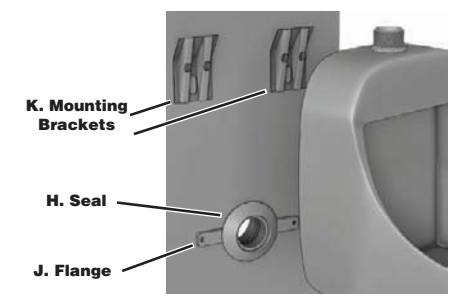
	Brand	Mfr. Model	Item No.
D. Flappers and Seals (Cont.)			
Rubber, Black, Fits Older Style Brass Flush Valves	Korky	50BP	**34D327**
Rubber, Black, Universal Fit	Korky	54BP	**2XLC8**
Toilet Flapper, Adjustable, ABS Blue	GA	22UR93	**22UR93**
Toilet Flapper, Adjustable, Black	GA	22UR87	**22UR87**
Toilet Flapper, PVC	GA	22UR86	**22UR86**
Toilet Flapper, Rubber Black	GA	22UR92	**22UR92**
Universal Fit, Adjusts for 1.28, 1.6 & 3.5+ gpf Toilets, Fits All Brands, Red Chlorine Resistant Rubber	Korky	100BP	**48H473**
Universal Fit, Red Chlorine Resistant Rubber	Korky	2001X	**2XLC9**
Universal Fit, Red Chlorine Resistant Rubber, Pack of 3	Korky	2001TP	**6KVX7**
Universal Flapper and Chain with Float	Am. Std.	7381129-200.0070A	**45A204**
Universal w/Adjustable Float, Red Chlorine Resistant Rubber	Korky	2004BP	**2XLD2**
3" Universal, Flush Valve Seal Kit, Red Chlorine Resistant Rubber, Fits Kohler® Class Five™ & Six™, American Standard Champion® 3, American Standard Seal; 738651-0070A & Kohler seal; GP1059291	Korky	435BP	**34D325**
Genuine Toto® Flapper by Korky®, Replaces all 3" Toto Flappers	Korky	2023BP	**38UF95**
Fits American Standard® Cadet® 3" Flapper, Red Chlorine Resistant Rubber	Korky	3040BP	**2XLD3**
Fits American Standard® Champion® 4 Flush Valve Seal, Eljer® & Titan® 4, Red Chlorine Resistant Rubber	Korky	450BP	**6KVY4**
Fits Mansfield® 210/211 Flush Valve Seal	Korky	427BP	**48H475**
Flapper for Cadet® 3, White	Am. Std.	738920-0070A	**6NWU4**
Silicone Toilet Flapper, Toilet	Am. Std.	7381008-400.0070A	**20XU61**
E. Tank to Bowl Gaskets and Hardware			
Rubber Tank to Bowl Gasket, Toilet	Am. Std.	034602-0070A	**20XU57**
Closed Couple Tank Kit for Champion® 4	Am. Std.	738756-0070A	**6NWU0**
Tank-Bowl Coupling Kit for Cadet® 3	Am. Std.	7301021-0070A	**6NWT7**
Tank to Bowl Kit	GA	22UR82	**22UR82**
Tank to Bowl Kit	GA	22UR83	**22UR83**
2" Tank to Bowl Gasket & Hardware Kit	Korky	464BP	**29VM27**
3" Tank to Bowl Gasket & Hardware Kit	Korky	481BP	**29VM28**
F. Spuds			
Brass and Rubber Urinal Spud, 1¼ x ¾"	GA	SP-1275	**5LXZ0**
Brass Reducing Urinal/Toilet Spud, 1 x ¾"	Am. Std.	047003-0070A	**4THJ5**
Brass and Rubber Toilet Spud, 2" x 1½"	GA	SP-250	**5LXZ4**
Reducing Spud, Fits 1" x ¾" Urinal and Toilet	GA	22UR68	**22UR68**
Brass Toilet Spud, 1¼ x 1¼"	Am. Std.	047005-0070A	**4THJ6**
Brass Toilet Spud, 1½ x 1½"	Am. Std.	047007-0070A	**4THJ7**
Spud Gasket, Toilet, 1¼"	GA	22UR75	**22UR75**
Spud Gasket, Toilet, 1½"	GA	22UR73	**22UR73**
Spud Gasket, Toilet, 1¾"	GA	22UR74	**22UR74**
Toilet Spud, 1¼"	GA	22UR72	**22UR72**
Toilet Spud, 1½"	Kissler	57-0520	**23YV78**
Toilet Spud, 1½ x 1½"	Dearborn Brass	4028	**20JX51**
Toilet Spud, Fits 1½" x 1½" Toilet	GA	22UR67	**22UR67**
G. Toilet to Floor Seals			
Reinforced Wax Ring, No-Seep® No. 3 w/Polyethylene Flange and Bolt Set	Harvey	004309	**5PA59**
Wax-Free Seal Kit, Universal Toilet to Floor; Wax Alternative With Hardware	Korky	6000BP	**38UF93**
Wax Ring	GA	22UR76	**22UR76**
Wax Ring, Fits 3" and 4" Waste Lines	GA	22UR70	**22UR70**
Wax Ring Kit, Fits 3" and 4" Waste Lines	GA	22UR71	**22UR71**
Wax Ring Kit, w/Flange Kit	GA	22UR77	**22UR77**
G. Toilet to Floor or Wall Seals			
Wax Free Toilet Seal for 4" Waste Lines	Fernco	FTS-4	**2ZU24**
Wax Ring, Bol-Wax® No. 5 Reinforced Wax Gasket, Wall or Floormount Bowls	Harvey	011003	**2WY63**
G. Toilet to Wall Seals			
Expanded Closed Seal Neoprene Gasket, for Wall Mount Toilets	Zurn	Z1200-NEOSEAL-GSKT-4	**41H972**
H. Urinal Seals			
Sponge Rubber Urinal Gaskets, 3" O.D. x 2⅛" I.D. x ⅜" Thick, Pkg. of 6	Harvey	070093	**2VRN6**
Wax-Free Seal, Fits 3" OD Urinals	GA	22UR66	**22UR66**
Wax Ring, Bol-Wax® No. 6 Reinforced Urinal Gasket	Harvey	011308	**2WY62**
Wax Ring, Fits 2" Outlet	GA	22UR69	**22UR69**
I. Bowl to Floor Hardware			
Johni-Bolt XL ¼ x 3½"	Hercules	90154C	**5NRX2**
Johni-Bolt XL ⅜ x 3½"	Hercules	90174C	**5NRX1**
Toilet to Floor or Toilet Flange Bolt Set, ¼ x 2¼"	GA	22UR78	**22UR78**
Toilet to Floor or Toilet Flange Bolt Set, ⅜ x 2¼"	GA	22UR79	**22UR79**
J. Flanges			
3 or 4" Easy Tap® Closet Flange, PVC, w/Stainless Steel Ring	Oatey	43553	**4KMN8**
PVC Twist-N-Set Closet Flange for 3" Waste Lines	Oatey	43654	**3NWX2**
PVC Twist-N-Set Closet Flange for 4" Waste Lines	Oatey	43651	**1VNH8**
K. Miscellaneous Toilet/Urinal Repair Parts and Accessories			
Cap Nuts and Washers	Zurn	P1203-FINISHTRIM	**5WYG9**
Conical Sponge Washer for Urinals	Am. Std.	034638-0070A	**3KTE1**
K-2 Wall Hanger Mounting Brackets for American Standard Urinals	Am. Std.	047058-0070A	**3KTE2**
Toilet Tank Antisweat Valve, Brass, 3-Way Installation (½" Thread, ½" Solder ⅝" O.D., ½" Comp. ⅝" O.D.)	GA	109-503	**1RLU5** †
Beehive Strainer Assembly for Urinals	Am. Std.	047517-0020A	**4TMJ2**
Toilet Stabilizing Shims, Pkg. of 8	Kissler	757-5105	**4EEV6**
Urinal Strainer for Washbrook®	Am. Std.	047068-0070A	**6NWR8**
Water Control Valve	Am. Std.	047136-0070A	**45A207**
Bowl Caps	GA	22UR80	**22UR80**
Bolt Cap Kit, Cover, White	Am. Std.	034783-0200A	**6NWR7**
Bolt Cap Kit, Toilet	Am. Std.	7381251-200.0200A	**20XU38**
Metal Tank Cover Locking Device, Toilet	Am. Std.	603111-0030A	**20XU58**
Toilet Seat Hardware	GA	22UR81	**22UR81**
Gravity Toilet Repair Kits			
Flush Valve Kit, Fits Most Toilets	GA	22UR89	**22UR89**
Flush Valve Kit, Incl. Adj. Flush Valve, Premium 3" Adj. Flapper, Tank-to-Bowl Gasket & Hardware	Korky	5030BP	**48H476**
Flush Valve Kit, Incl. Adj. Flush Valve, Premium Flapper, Tank-To-Bowl Gasket & Hardware	Korky	4030PK	**34D326**
Flush Valve Kit w/Adjustable Flapper, Bolts, Gaskets	Fluidmaster	Pro 57K	**1APJ8**
Flush Valve w/Adjustable Flapper	Fluidmaster	Pro 57	**1APJ7**
Fill Valve w/Adjustable Flapper	Fluidmaster	Pro 45C	**1APJ2**
QuietFill® Fill Valve and Premium Flapper	Korky	818BP	**15W943**
WaterWi$e™ Leak Detecting Fill Valve and Premium Flapper	Korky	818Z	**4KTF8** *
Incl. Fill Valve, Flapper, Flush Valve, Bowl Gasket, Hardware	Korky	4010PK	**6KVX8**
Incl. Fill Valve, Flush Valve, Bowl Gasket, Bolts, Tank Lever	Fluidmaster	Pro 45K	**1APJ3**

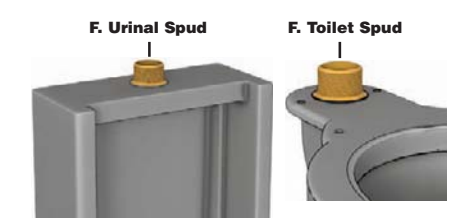
**** Valves help protect against flapper leaks and hang-ups. † No. 1RLU5 has a flow adjustment screw to regulate or shut off hot water flow.***












No. 2P888


No. 23PD06


No. 2P893

Toilet Seats

Bolt onto a toilet bowl and can be lifted on their hinges for cleaning and full access to the bowl. Oval or circular rings should match the bowl shape to keep the seat stable. Use seats on new installs or for replacement.

Standard Elongated—Elongated or oval seats are about 2" longer from back to front than standard round bowls. Extra space improves comfort for adults and helps reduce drips and mess around bowl.

Standard Round—Fit round toilet bowls and are generally more comfortable for smaller users. Seat help prevent slipping and drips.

Elongated Lift—Taller than standard elongated seats to make it easier for people to lower and lift themselves off toilet. Assists people with mobility issues, inflammatory conditions, and arthritis.

Child—Smaller seats and typically found in schools, pediatric hospitals, and daycare facilities.

Elongated Safety-Arm—Elongated (oval) seats with support arms for people to lift or lower themselves when using the toilet. Arms attach to the underside of the seat and extend from the sides to provide grab bars for lifting and balance. Used in rehab facilities, hospitals, nursing homes, and senior-living centers.

Round Lift—Taller than standard round seats to help people get on and off the toilet. Designed to assist people with mobility issues, inflammatory conditions, and arthritis.

Oversized Toilet Seats for Round or Elongated Bowls—Universal fit with a higher weight capacity to support heavy users. The wider-than-standard surface area fits any bowl shape. Commonly used on toilets for bariatric patients in hospitals and medical facilities.

Color	Hinge Material*	Hinge Design	Seat Height	Overall Width	Bolt to Seat Front	Features	ADA Compliance	Brand	Item No.
Standard Elongated									
Closed Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	1 15/16 in	14 in	18 3/4 in	350 lb Cap., Easy to Remove Seat, High Traffic, STA-TITE(R) Bolts,	Yes	Bemis	**5AV12**
White	Plastic	External Check Hinge	1 3/8 in	13 15/16 in	18 3/8 in	350 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**23PD07**
White	Plastic	External Check Hinge	2 in	14 1/8 in	18 7/8 in	300 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Bemis	**46W156**
White	Plastic	External Check Hinge	2 3/16 in	14 in	18 3/4 in	500 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**2P890**
White	Plastic	Lift-Off Hinge	1 3/4 in	14 in	18 7/8 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ7**
White	Plastic	Lift-Off Hinge	1 3/4 in	14 in	18 7/8 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ8†**
White	Plastic	Lift-Off Hinge	1 7/8 in	14 1/4 in	18 29/32 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTK1**
White	Plastic	Slow Close Hinge	1 15/16 in	14 in	18 5/8 in	500 lb Cap., High Traffic, STA-TITE(R) Bolts	Yes	Bemis	**23PD09**
White	Plastic	Slow Close Hinge	2 1/8 in	14 7/8 in	18 3/4 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**20G112**
White	Plastic w/ S.S. Posts	External Check Hinge	1 15/16 in	14 1/16 in	18 15/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**26X099**
White	Plastic w/ S.S. Posts	External Check Hinge	2 1/4 in	14 in	18 3/4 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV30**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 in	18 1/2 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**21R415**
White	S.S.	External Check Hinge	1 15/16 in	14 3/4 in	19 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE7**
White	S.S.	Self-Sustaining Check Hinge	1 15/16 in	14 3/4 in	19 in	300 lb Cap., Antimicrobial, Fire Retardant, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTF3**
White	S.S.	Slow Close Hinge	2 in	14 1/4 in	18 in	High Traffic, 500 lb Cap., Antimicrobial, Sanitary Seat Lift Tab, Easy to Remove Seat, Std. Bolts, Non-Corrosive Posts	No	Amer. Std.	**45A196**
Open Front, Includes Cover: No									
Black	Plastic w/ S.S. Posts	External Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**2P889**
Black	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**46W158**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**2P888**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV25**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/8 in	14 5/16 in	18 7/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**29JU46**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	High Traffic, 500 lb Cap., Antimicrobial, Fire Retardant, STA-TITE(R) Bolts, Non-Corrosive Posts	Yes	Bemis	**6MPR4**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	1 1/2 in	14 3/8 in	18 1/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Bemis	**46W159**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**46W155**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 3/8 in	14 5/16 in	18 7/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**29JU47**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 3/8 in	14 1/4 in	18 9/16 in	High Traffic, 500 lb Cap., Antimicrobial, Fire Retardant, STA-TITE(R) Bolts, Non-Corrosive Posts	Yes	Bemis	**6MPR5**
White	S.S.	External Check Hinge	1 in	14 3/8 in	18 in	500 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Amer. Std.	**4TMH8**
White	S.S.	Self-Sustaining Check Hinge	1 in	14 3/8 in	17 7/8 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**29TJ04**
White	S.S.	Self-Sustaining Check Hinge	2 3/8 in	14 3/8 in	18 9/16 in	500 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Amer. Std.	**49JM37**
White	S.S.	Slow Close Hinge	1 in	14 5/8 in	18 5/8 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**19RT10**
Open Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	2 1/4 in	14 in	18 9/16 in	500 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**2P891**
White	Plastic w/ S.S. Posts	External Check Hinge	1 15/16 in	14 1/16 in	18 13/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**46W154**
White	Plastic w/ S.S. Posts	External Check Hinge	2 1/4 in	14 in	18 9/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV29**
White	S.S.	External Check Hinge	1 15/16 in	14 3/4 in	18 5/8 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE9**
Standard Round									
Closed Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	1 15/16 in	14 3/8 in	16 3/4 in	350 lb Cap., Easy to Remove Seat, High Traffic, STA-TITE(R) Bolts	Yes	Bemis	**5AV14**
White	Plastic	External Check Hinge	1 3/8 in	14 3/16 in	16 11/16 in	350 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**23PD06**
White	Plastic	External Check Hinge	2 in	14 3/8 in	16 7/8 in	300 lb Cap., Easy to Remove Seat, High Traffic, Std. Bolts	Yes	Bemis	**45ND60**
White	Plastic	Lift-Off Hinge	1 7/8 in	14 1/8 in	16 7/8 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ5**
White	Plastic	Lift-Off Hinge	1 3/4 in	14 3/8 in	16 1/4 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ9**
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 1/4 in	16 5/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**2P886**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 1/4 in	16 5/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV26**
Open Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	2 1/4 in	14 1/4 in	16 1/2 in	500 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**2P887**
White	Plastic w/ S.S. Posts	External Check Hinge	2 1/4 in	14 3/16 in	16 1/2 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV27**
White	S.S.	External Check Hinge	1 15/16 in	14 3/8 in	16 3/4 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE8**
Elongated Lift									
Closed Front, Includes Cover: No									
White	—	—	2 15/16 in	14 1/2 in	19 1/8 in	500 lb Cap., High Traffic, STA-TITE(R) Bolts	Yes	Bemis	**5AV16**
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	3 3/16 in	19 1/4 in	18 9/16 in	High Traffic, 300 lb Cap., Antimicrobial, STA-TITE(R) Bolts, Non-Corrosive Posts	Yes	Bemis	**2P892**
White	Plastic w/ S.S. Posts	External Check Hinge	4 3/16 in	14 1/4 in	18 9/16 in	High Traffic, 300 lb Cap., Antimicrobial, STA-TITE(R) Bolts, Non-Corrosive Posts	Yes	Bemis	**5AV17**
White	S.S.	Slow Close Hinge	2 3/16 in	14 5/8 in	18 5/8 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Centoco	**19RT15**
White	S.S.	Slow Close Hinge	3 7/32 in	14 5/8 in	18 5/8 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Centoco	**19RT16**
Child									
White	Plastic w/ S.S. Posts	External Check Hinge	2 1/8 in	13 1/16 in	15 1/4 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE(R) Bolts	Yes	Bemis	**5AV11**
Elongated Safety-Arm									
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	2 5/8 in	14 5/16 in	18 7/16 in	High Traffic, 250 lb Cap., Antimicrobial, STA-TITE(R) Bolts, Non-Corrosive Posts	Yes	Bemis	**2P893**
Round Lift									
Closed Front, Includes Cover: No									
White	—	—	2 15/16 in	14 3/16 in	17 1/8 in	500 lb Cap., High Traffic, STA-TITE(R) Bolts	Yes	Bemis	**5AV15**
Oversized for Round or Elongated Bowls									
Open Front, Includes Cover: No									
White	S.S.	Slow Close Hinge	2 1/2 in	14 in	17 5/32 in	1200 lb Cap., High Traffic, Std. Bolts	Yes	Big John	**39AP83**
White	S.S.	Slow Close Hinge	2 1/2 in	19 3/16 in	20 1/16 in	1200 lb Cap., High Traffic, Std. Bolts	Yes	Big John	**12G706**

** S.S. = Stainless Steel. † Sold in package of 8.*


No. 49JM66


No. 2PPR4


No. 2PPR5


No. 34TE11

Urinals

American Standard SLOAN ZURN

- White vitreous china
- Flush valve sold separately, see Grainger.com®

Wall-mount flush-valve urinals with top spud are off-the-floor fixtures that allow thorough cleaning, connect to a wall waste line, and work with an exposed flush valve for unblocked access during maintenance. These fixtures have a lower weight capacity than floor-mounted fixtures, but provide a streamlined look and full access for cleaning the floor and urinal surfaces. Includes back opening for waste line and a spud atop the fixture for connecting to a flush valve (flushometer). Meet all ANSI and ASME water conservation requirements.

Gal. Per Flush	ADA Compliance	Spud Connection Size	Brand and Series	Mfr. Model	Item No.		Shipping Qty.
Washout Urinal							
0.125	Yes	¾ in	Amer. Std. Decorum	6042001EC.020	**49JM66**	*	1
0.125 to 0.5	Yes	¾ in	Amer. Std. Pintbrook	6002001.020	**52WU81**	*	1
0.125 to 1.0	No	¾ in	Amer. Std. Maybrook	6581001EC.020	**45NC88**	*†	1
0.125 to 1.0	Yes	¾ in	Amer. Std. Washbrook FloWise®	6590001.020	**16U006**	*	1
0.125 to 1.0	Yes	¾ in	Amer. Std. Washbrook FloWise®	6590001EC.020	**45NC87**	*†	1
0.125 to 1.0	Yes	¾ in	Amer. Std. Washbrook FloWise®	6590001PL.020	**15W678**	*	6
1.0	Yes	1 ¼ in	Amer. Std. Lynbrook	6601012.020	**5NTV9**		1
Washout Urinal with Automatic Flush Valve							
0.125	Yes	¾ in	Sloan	WEUS1000.1401	**2PPR4**	*	1
0.125	Yes	¾ in	Zurn	Z5755.205.00	**45NC89**	*	1
0.25	Yes	¾ in	Sloan ECOS®	WEUS1002.1401	**5NFL2**	*	1
Washout Urinal with Manual Flush Valve							
0.125	Yes	¾ in	Sloan	WEUS1000.1001	**2PPR5**	*	1
0.125	Yes	¾ in	Amer. Std. Washbrook FloWise®	6590503.020	**38UP27**	*	1
0.25	Yes	¾ in	Sloan Royal®	WEUS1002.1001	**5NFL0**	*	1
Siphon Jet Urinal							
0.125	No	¾ in	Zurn	Z5755-U	**34TE11**	*	1
0.5 to 1.0	Yes	¾ in	Amer. Std. Allbrook	6550001.020	**38W399**		1
1.0	Yes	¾ in	Amer. Std. Trimbrook	6561017.020	**1ZKZ1**		1

** WaterSense Certified. † Ultrahigh efficiency.*

GA GRAINGER APPROVED Encore by Component Hardware

Specialty Grab Bars

Mount to walls to offer a fixed rod that people can hold onto to maintain their balance and lower or lift themselves. Stainless steel with stainless steel mounting hardware.

Description	Dia.	Brand	Item No.	
Smooth Surface				
18" Straight Grab Bar, Exposed Screws	1 ½"	GA	**3P920**	*
24" Straight Grab Bar, Exposed Screws	1 ½"	GA	**3P918**	*
32" Straight Grab Bar, Exposed Screws	1 ½"	GA	**3P919**	*
12" x 12" Boomerang Grab Bar	1 ½"	GA	**4WMG6**	*
30" L x 5" W x 33" H Floor-to-Wall, Right Hand	1 ½"	GA	**4WMG8**	*
30" L x 5" W x 33" H Floor-to-Wall, Left Hand	1 ½"	GA	**4WMH1**	*
30" L x 24" W x 33" H Wheelchair Toilet Bar	1 ½"	GA	**4WMH4**	*
30" L x 6" W x 8" H Tilt-Up Safety Arm	1¼"	GA	**4WMH6**	
30" L Straight Grab Bar	1 ½"	Encore	**2YDU9**	
L-Shaped 30" L x 30" W	1 ½"	Encore	**2YDV6**	
Textured Surface				
Floor-to-Wall, Right Hand 30" L x 5" W x 33" H	1 ½"	GA	**4WMG9**	*
Floor-to-Wall, Left Hand 30" L x 5" W x 33" H	1 ½"	GA	**4WMH2**	*

** Meets ADA requirements when properly installed.*


No. 4WMG8


No. 44Z635



No. 4FB39

WATERLESS.com the innovative brand since 1991
SLOAN
American Standard

Wall-Mount Waterless Urinals

Conserve water by eliminating liquid waste without flushing. They connect to a wall waste line and rely on gravity to direct urine into the drain, so there's no need for a flushing mechanism. These water-free urinals use a trap or cartridge with a layer of sealant that blocks odors from rising out of a waste line while allowing urine to pass through. Use to reduce water consumption in dry climates and other areas where water is scarce. WaterSense Certified.

Urinal Material	ADA Compliance	Brand and Series	Mfr. Model	Item No.
Waterless Urinal				
High Performance Composite/Fiberglass	No	Waterless Sonora	2004	**2VRW4**
	Yes	Waterless Anza	2005	**23PC28**
	Yes	Waterless Del Casa	2902	**23PC29**
	Yes	Waterless Sonora	2004B	**23PC27**
Vitreous China	Yes	Sloan	WES1000	**4FB38**
	Yes	Waterless Baja	2104	**44Z635**

Item	Brand	Item No.
Waterless Urinal Cleaners and Accessories		
Cleaner Cartridge Green Clean Liquid Concentrate	Sloan	**3ETX5**
Cleaner Cartridge Includes: Cartridge Key, Sealant Package, Protective Glove, Disposal Bag	Sloan	**4FB39**
Measuring Cup	Waterless	**2VRW5**
Trap Insert	Waterless	**2VRW2**
Trap Insert Includes: (2) 16 oz. Bottles Odor Barrier Liquid, (2) Drain Inserts, (2) Insert Removal Tools	Amer. Std.	**4TMG6**
Trap Insert Removal Tool	Waterless	**2VRW3**
Urinal Cleaner 1 qt.	Waterless	**6XKC5**
Urinal Cleaner Includes: (1) 32 oz. Bottle, (1) Trigger Sprayer and (1) Green Clean Concentrate	Sloan	**3ETX4**
Urinal Cleaner Includes: BlueSeal® Liquid, EcoTrap® Tool And Measuring Cup, 1 Kit Is Good For Up To 5 Urinal Start-Ups	Waterless	**2VRW7**
Urinal Flange Kit Required for all new construction	Waterless	**6XKC4**
Waterless Urinal Sealant, 1 qt.	Waterless	**2VRW1**

WINGITS® GA GRAINGER APPROVED
Bradley Encore by Component Hardware SANIGUARD THE POWER OF SILVER


No. 2YDV2

Grab Bars

Bars help provide a better grip for improved safety. Stainless steel with mounting hardware and concealed screws.

Type	Weight Cap.	Brand	Length 12" Item No.	16" Item No.	18" Item No.	24" Item No.	36" Item No.	39" Item No.	42" Item No.	45" Item No.	48" Item No.
1¼" Dia.											
Contemporary	800 lb.*	WingIt	—	—	**19D074**	**19D075**	**19D082**	—	**19D077**	—	**19D084**
Contemporary	800 lb.*	WingIt	—	—	**19D080**	**19D081**	**19D076**	—	**19D083**	—	**19D078**
Peened	800 lb.*	WingIt	—	—	—	—	—	—	**34CE97**	—	—
Smooth	800 lb.*	WingIt	—	—	**6RGG4**	**6RGJ5**	**6RGJ6**	—	**6RGJ7**	—	—
Textured Surface	250 lb.	GA	**4WMN5**	—	**4WMN7**	—	—	—	**4WMP1**	—	**4WMP2**
1 ½" Dia.											
Concealed Wall Mount	1000 lb.	Bradley	—	—	—	—	—	**29RU58**	—	**29RU59**	—
Knurled	250 lb.	Encore	—	—	**4TLJ8**	—	—	—	—	—	—
Polyester Painted	800 lb.*	WingIt	**6RGH3**	—	**6RGH4**	**6RGH5**	**6RGH6**	—	**6RGH7**	—	—
Smooth	800 lb.*	WingIt	—	—	**6RGG5**	**6RGG6**	**6RGG7**	—	**6RGG8**	—	—
Smooth w/ SANIGUARD® Product Protection	250 lb.	Encore	**4TLJ5**	**4TLJ4**	**2YDU7**	**2YDU8**	**2YDV1**	—	**2YDV3**	—	**2YDV5**
Textured w/ SANIGUARD® Product Protection	250 lb.	Encore	**4TLJ6**	**4TLJ7**	—	**4TLJ9**	**2YDV2**	—	**2YDV4**	—	**4TLK1**

**800-lb. weight capacity when installed using WingIts® Grab Bar Fastener, No. 6UTC7 (4"L) sold separately on page 2169.*


No. 4EEX4

Taymor | GA GRAINGER APPROVED | Bradley | SEE ALL®

Restroom Accessories

Material*	Finish†	Bar Length	Overall Height	Overall Depth	Overall Length	Brand	Item No.
Towel Bar							
S.S.	PC	18"	1-5/6"	3 3/16"	20 1/4"	Taymor	**10G184**
Zamac	PC	18"	2 1/8"	3 1/8"	21"	GA	**15F406**
S.S.	PC	24"	1-5/6"	3 3/16"	26 1/4"	Taymor	**10G185**
Zamac	PC	24"	2 1/8"	3 1/8"	27"	GA	**15F407**
Zamac	PC	24"	2 3/4"	3 3/8"	26 3/4"	GA	**15F397**
Zamac	PC	24"	2 11/16"	3 1/8"	26 1/4"	Taymor	**10G192**
Zamac	SN	24"	2 3/4"	3 3/8"	26 3/4"	GA	**15F402**

Material of Construc.	Fastener Type	H	W	Thickness	Item No.
GA, Folding Shelf					
Zamac	Theft Resistant	5 3/8"	15 1/2"	3 1/2"	**4WMJ7**

Material	Finish†	Ring Height	Ring Width	Overall Height	Overall Depth	Item No.
GA, Towel Ring						
Zamac	PC	6"	6"	7"	1 5/8"	**4WML1**
		6"	6"	6 3/8"	1 3/4"	**15F405**

Material*	Finish†	H	W	D	Item No.
Bradley, Framed Mirror					
S.S.	S	5"	7"	2 3/4"	**23MU61**
S.S., Clear Acrylic	S	7"	7"	3 15/16"	**23MU62**
Steel and Glass	B, SS	36"	18"	3/4	**29RU66**
GA, Soap Dish					
S.S.	—	2 1/4"	5"	3"	**1ECN7**
Metal	C	1 1/2"	3 7/8"	3 1/8"	**2VAL8**
GA, Toilet Paper Holder, (1) Roll Capacity					
Zamac	Polished	2 3/4"	7 5/8"	3 3/8"	**15F409**
Zamac	Polished	2 5/8"	7 1/8"	3 1/8"	**15F411**
	S	2 1/2"	9"	3 1/4"	**15F408**
See-All, Dual-Sided Wall Mirror					
Metal	C	13"	11"	3"	**30AC28**

Material*	Finish†	Overall Height	Overall Depth	Brand	Item No.
Hooks					
Bathroom Hook					
S.S.	S	1 1/8"	2"	GA	**4WMK8**
Metal	C	1 1/2"	1 1/2"	GA	**2VAL4**
S.S.	S	3 3/4"	1 1/16"	Bradley	**1GYA7**
S.S.	S	3"	3 1/4"	GA	**1ECN4**
S.S.	S	3"	3 1/4"	GA	**1ECL8**
Zamac	C	1 1/2"	2"	GA	**4WMK7**
Zamac	PC	1 1/2"	1 1/2"	Taymor	**10G182**
Zamac	PC	1 1/2"	2 1/4"	Taymor	**10G183**
Zamac	SN	2 13/32"	2 3/4"	GA	**15F392**
Zamac	SN	2 3/4"	2 3/8"	GA	**15F398**
Zinc	CP	5 5/32"	2 3/16"	GA	**5XTE1**
Coat Hook and Bumper					
Zamak	CP	—	—	GA	**1ECL2**
Collapsible Hook					
S.S.	S	4 1/3"	1 1/2" Collapsed, 3" Extended	GA	**1ECL9**
Hook					
S.S.	S	6"	2"	GA	**4WMK9**
S.S.	S	9 1/8"	3 1/16" x 26"L	GA	**1ECL3**
Security Hook					
S.S.	S	4 1/4"	2 1/8" Collapsed, 2 5/8" Extended	GA	**1ECN1**

Material*	Finish†	Overall Height	Overall Depth	Brand	Item No.
Shelves					
Towel Shelf					
S.S.	B	9 1/4"	7 1/8"	GA	**4EEX3**
S.S.	B	9 1/4"	7 1/8"	GA	**4EEX4**
S.S.	C	4"	8 1/4	GA	**2VAL7**
Steel Wire	C	11 17/64"	4 1/4"	GA	**5XTD3**
Zamac	PC	6 1/2"	8 1/2"	Taymor	**10G186**
Utility Shelf					
S.S.	S	4 1/8"	5"	GA	**1ECL6**
S.S.	S	4 1/8"	5"	GA	**4WMK4**
S.S.	S	4 1/8"	4 1/8"	GA	**4WMK5**
S.S.	S	4 1/8"	5"	GA	**1ECN6**
S.S.	S	2"	6 1/4"	GA	**1ECN5**
Utility Shelf with Backsplash					
S.S.	S	8 1/8"	5"	GA	**4WMJ8**
S.S.	S	8 1/8"	5"	GA	**4WMJ9**
Utility Shelf with Mop Holders					
S.S.	S	6 1/8"	9 1/8"	GA	**1ECL7**

** S.S. = Stainless Steel. † B = Bright, BN = Brushed Nickel, C = Chrome, CP = Chrome Plated, PC = Polished Chrome, S = Satin, SN = Satin Nickel.*

ACORN | Whitehall BestCare™ | SLOAN | Bradley

Prison and Ligature-Resistant Toilet and Sink Combination Units

- For institutional showerheads, go to Grainger.com®

Ligature-resistant sinks, toilets, and urinals withstand damage and prevent vandalism, abuse, or potential for self-harm or suicide in correctional and mental health facilities where antiligature or security products are needed. Sinks have push-button controls that provide hot and cold water at 0.5 gpm, and a penal bubbler. Metering valves can be set for 5- to 60-sec. operation and cannot be held open. These specialized toilets and urinals include enclosed flush valves, so they can't be used to tie off cords or fabric strips.


No. 49T884

Gal. per Flush	Rough-In	Rim Height	ADA Compliance	Flush Valve Location	Spud Connection Size	Brand	Item No.
Prison Toilet, Elongated							
Floor Mount							
1.6 or Less	4 1/4"	18"	Yes	Concealed	1 1/2"	Acorn	**5ZXF7**
1.28 or 1.6 or 3.5	4 1/2"	16"	Yes	Exposed	1 1/4"	Acorn	**49T884**
1.28 or 1.6 or 3.5	10"	16 1/2"	Yes	Concealed	1 1/4"	Acorn	**49T885**
1.28 or 1.6 or 3.5	10"	16 1/2"	Yes	Exposed	1 1/2"	Acorn	**49T886**
1.28 or 1.6 or 3.5	10"	17"	Yes	Concealed	1 1/4"	Acorn	**49T887**
1.6	12"	15"	No	Concealed	1 1/2"	Acorn	**1JZL5**
Wall Mount							
1.28 or 1.6 or 3.5	4"	16 1/2"	Yes	Exposed	1 1/2"	Acorn	**49T882**
1.28 or 1.6 or 3.5	4"	17"	Yes	Concealed	1 1/2"	Acorn	**49T883**
1.6	12"	—	Yes	Concealed	1 1/2"	Acorn	**1JZL4**
1.28 or 1.6 or 3.5	12"	15"	Yes	Concealed	1 1/2"	Acorn	**26CT94**
1.28 or 1.6 or 3.5	12"	15"	Yes	Exposed	1 1/4"	Acorn	**26CT93**
Prison Toilet and Sink Combination Unit, Elongated							
Floor Mount							
1.6	12"	15"	No	Concealed	1 1/2"	Acorn	**1JZL9**
Ligature Resistant Toilet, Elongated							
Floor Mount							
1.6	12"	15"	No	Concealed	1 1/2"	Bestcare	**38C428**
1.6 or 1.28	12"	15"	No	Concealed	1 1/2"	Bestcare	**38C429**
1.6 or 1.28	12"	18"	Yes	Concealed	1 1/2"	Bestcare	**38VC64**


No. 1JZL6



Flow Rate	ADA Compliant	Drain Opening	Bowl Size	Overall Width	Overall Length	Overall Height	Brand	Item No.
Penal Bathroom Sink								
Wall Mount								
0.5 gpm	No	1 1/2"	9 1/2" x 14 3/4"	12 1/2"	18"	14 1/2"	Acorn	**1JZL6**
0.5 gpm	Yes	1 1/2"	9 1/2" x 14 3/4"	18"	18"	12 3/4"	Acorn	**1JZL7**


No. 5RMD8

Gal. per Flush	Flush Handle	ADA Compliance	Spud Connection Size	Brand and Series	Item No.
Prison & Ligature Resistant Urinals					
Washout Prison Urinal					
1.0 to 1.5	Wall Button	No	3/4"	Acorn Dura-Ware®	**5RMD8**
1.0 to 1.5	Wall Button	No	3/4"	Acorn Dura-Ware®	**5RMD9**
Washout Ligature Resistant Urinal					
0.125	Top Button	No	3/4"	Whitehall BestCare®	**38C421**
Washout Ligature Resistant Urinal with Manual Flush Valve					
0.125	Top Button	Yes	3/4"	Whitehall BestCare®	**49T906**
Waterless Ligature Resistant Urinal					
0	—	No	3/4"	Whitehall BestCare®	**38C422**

Flush Valve Location	Gal. per Flush	Rough-In	Spud Coupling	Inlet Size	Flush Valve Design	Brand and Series	Item No.
Prison Flush Valves							
Concealed	1.6	20 1/2"	1 1/2"	1" IPS	Diaphragm	Sloan Royal®	**3ETX2**
Concealed	3.5	20 1/2"	1 1/2"	1" IPS	Diaphragm	Sloan Royal®	**3ETX1**


No. 1GYB8

Description	L	W (in.)	H (in.)	Dia.	Brand	Item No.
Security Washroom Accessories, Stainless Steel						
Grab Bar	24"	—	—	1 1/2"	Bradley	**1GYC4**
Grab Bar	36"	—	—	1 1/2"	Bradley	**1GYC5**
Grab Bar	42"	—	—	1 1/2"	Bradley	**1GYC6**
Security Framed Wall Mirror	—	11 1/4	17 1/4	—	Bradley	**1GYB8**
Toilet Paper Holder	—	7	7	—	Acorn	**5RME4**
Book Shelf w/Clothes Hooks	—	10 1/2	10 1/2	—	Acorn	**5RME1**
Clothes Hook Panel with 1 Hook	—	4 1/4	4 1/4	—	Acorn	**5RME3**
Clothes Hook Panel with 4 Hooks	—	5 1/2	5 1/2	—	Acorn	**5RME2**

Whitehall BestCare™

Ligature Resistant Bathroom Faucets


No. 38C415

Cone-spout faucets are shaped like a rounded triangle, or cone. Their shape makes it difficult to use the faucets as a ligature point or a point of self-harm, making them suitable for hospitals, prisons, and mental health settings. These dual-metering-handle two-hole centerset deck-mount faucets have two handles that users push down on to start the flow of water. Each handle is operated separately to control the hot and cold water supplies. Metering-handle faucets let users control the start of the flow of water but not the duration, as the water flow shuts off automatically. Chrome faucet finish.

Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	Brand	Item No.
WH3377	Brass	0.35 gpm	Spray	2"	2"	Bestcare	**455D06**
WH3374	Brass	0.70 gpm	Spray	2"	2"	Bestcare	**38C415**

Institutional Fixture Repair Parts

Mfr. Model	Description	Item No.
0112-002-001	Tamper Resistant Screws, 10-32 x ½", Pkg. of 10	2EVN1
0116-012-001	Screws, 8-32" x 1¼", Pkg. of 10	2EVN2
0296-020-000	Hex Wrench, 5/32"	2EVN5
0302-003-001	Hex Nuts, 8-32, Pkg. of 10	2EVN7
0326-100-001	U-Key, Pkg. of 10	2EVN8
0401-129-001	O-Rings, 1 9/16" x 1 3/4" x 3/32", Pkg. of 10	2EVR1
0401-124-001	O-Rings, 1¼" x 1 7/16", x 3/32", Pkg. of 10	2EVP8
0401-117-001	O-Ring, 13/16" x 1" x 3/32", Pkg. of 10	3ZWN7
0401-026-001	O-Rings, 1¼" x 1⅜" x 1/16", Pkg. of 10	2EVP6
0401-016-001	O-Rings, 5/8" x ¾" x 1/16", Pkg. of 10	2EVP5
0401-015-001	O-Rings, 9/16" x 11/16" x 1/16", Pkg. of 10	2EVP4
0401-014-001	O-Rings, ½" x 5/8" x 1/16", Pkg. of 10	2EVP3
0401-012-001	O-Rings, 3/8" I.D. x 1/2" O.D. x 1/16" Thick, Pkg. of 10	2EVP2
0401-011-001	O-Rings, 5/16" I.D. x 7/16" O.D. x 1/16" Thick, Pkg. of 10	2EVP1
0401-007-001	O-Rings, 3/32" x 9/32" x 1/16", Pkg. of 10	2EVN9
0421-019-001	Gaskets, 7/16" I.D. x 23/32" O.D. x 1/8" Thick, Pkg. of 10	2EVR2
0431-023-001	Bonnet Gaskets, 13/16" I.D. x 1" O.D. x 1/8" Thick, Pkg. of 10	2EVR3
0469-025-000	Gasket, 2.5 GPM	2EVR5
0469-005-000	Gasket, 0.5 GPM	2EVR4
0715-060-001	Control Module	3ZWN8
1241-001-001	Shower Nozzle Assembly, Wall Mount	2EVR6
1244-002-001	Showerhead Assembly, Wall Mount	2EVR7
1895-451-001	Nylon Compression Nuts, 7/16" - 20 UNFI, Pkg. of 10	2EVT2
1895-450-001	Nylon Compression Nuts, 3/16"-24 UNFI, Pkg. of 10	2EVT1
1895-012-000	Nylon Male Connector, 1/4" O.D. Tube x 3/8" NPT	2EVR9
1895-002-000	Nylon Male Connector, ¼" x ¼" NPT	2EVR8
2153-010-199	Tubing, Red, 120"	2EVT4
2155-010-199	Tubing, Blue, 120"	2EVT5
2160-010-199	Tubing, Clear, 120"	2EVT6
2195-010-000	SS Braided Supply Hose, ½" NPS X 6¼"	2EVT7
2260-001-011	Flo-Cloz® Cartridge w/Chrome-Plated Stem, Plastic Seat	2EVU2
2260-001-002	Flo-Cloz® Cartridge Top Assembly, Plastic Seat	2EVU1
2260-001-001	Flo-Cloz® Cartridge Assembly, Plastic Seat	2EVT9
2280-000-199	Flo-Cloz® Bonnet Cap, Brass	2EVU3
2292-003-199	Canopy Handle, Single Temp.	2EVL8
2302-020-001	Penal-Matic® Cartridge Assembly	2EVU6
2302-000-002	Meter-Matic® Cartridge Assembly	2EVU5
2302-000-001	Penal-Matic® Cartridge Assembly, Fluid Metering	2EVU4
2304-001-001	Cartridge Assembly	2EVU8
2304-000-001	Penal-Trol® Cartridge Assembly, Self-Closing	2EVU7
2312-003-001	Flow Control Assembly, Toilet and Lavatories	1KAA2
2315-000-001	Push Rod Adjusting Cup	2EVL9
2415-002-001	Compression Spring Assembly, Pkg. of 10	2EVX2
2415-000-001	Check Stop	2EVX1
2437-110-001	Safti-Trol® Cartridge Assembly	3ZWP2
2437-100-001	Safti-Trol® Cartridge Assembly	3ZWP1
2437-001-001	Safti-Trol® Cartridge and Diaphragm Assembly	2EVX4
2437-000-001	Safti-Trol® Cartridge Top Assembly	2EVX3
2560-015-001	Water Chamber Assembly	2EVX5
2563-305-002	Solenoid, 24V	3ZWP3
2563-130-002	Reset Valve	2EVZ6
2563-121-001	Diaphragm Assembly	2EVZ5
2563-108-001	Spring Assembly, Pkg. of 10	2EVZ4
2563-103-001	Diaphragm Assembly	2EVZ3
2563-100-002	Reset Valve	2EVZ2
2563-086-000	Gasket	2EVZ1
2563-081-001	Bonnet, Plastic	2EVY9
2563-080-001	Reset Valve	2EVY8
2563-024-000	Cover Plate, Delayed Acting	2EVY7
2563-023-001	Metering Air Diaphragm Springs, Pkg. of 10	2EVY6
2563-022-000	Metering Air Diaphragm	2EVY5
2563-021-001	Metering Magnet Cup Assembly	2EVY4
2563-020-002	Servomotor	1KAA5
2563-020-001	Metering Servomotor Assembly without Seat	2EVY3
2563-019-001	Servomotor Plate	2EVY1
2563-010-001	Diaphragm Assembly, and Lavatories	1KAA3
2563-004-001	Diaphragm Assembly	2EVX8
2563-002-199	Servomotor Cup	2EVX7
2563-000-002	Servomotor	2EVX6
2564-000-001	Metering Timer Assembly	2EVZ7
2566-310-012	Push Button Assembly, Hot and Cold	2EWA2
2566-302-008	Actuator Assembly Push-Button Diaphragm	3ZWP6
2566-055-199	Diaphragm Assembly Side Outlet	3ZWP5
2566-052-001	Push Button Assembly, Cold	2EWA1
2566-051-001	Push Button Assembly Hot	2EVZ9
2566-050-001	Push Button Assembly, Single Temp..	2EVZ8
2566-001-000	Diaphragm Assembly	3ZWP4
2570-105-001	Flow Control Elbow, Plastic	2EWC9
2570-061-000	Inside Cover, Plastic Valve	2EWC8
2570-045-001	Single Temperature Tee, 0.5 GPM	2EWC7
2570-042-000	Mixing Tee Adapter	2EWC6
2570-040-001	Mixing Tee, Hot and Cold, 0.5 GPM	2EWC5
2570-028-001	O-Ring, Male x Male	2EWC4
2570-027-000	Valve Body, Plastic	2EWC2
2570-026-000	Valve Body, Plastic	2EWC1
2570-025-000	Valve Body, Plastic	2EWA9
2570-015-199	Prison Toilet Control Stop Stems	2EWA8
2570-014-000	Prison Toilet Control Stop Stems, Plastic	2EWA7
2570-013-000	Prison Toilet Control Stop Seats, Plastic	2EWA6
2570-012-000	Stop Bonnet	2EWA5
2570-011-001	Prison Toiler Control Stops	2EWA4
2570-000-001	Prison Toiler Control Stops	2EWA3
2580-000-001	Valve Seat Assembly	2EWD1
2590-203-001	Metering Valve Assembly, Single Temp., 2.5 GPM	2EWD5
2590-051-001	Metering Valve Assembly, Plastic	2EWD4
2590-050-001	Non Metering Valve Assembly, Nonmetering H & C	2EWD3
2590-003-001	Valve, Shower, Single-Temp., 2.5 gpm	1KAA4
2725-004-001	Urinal Strainer	2EWD7
2725-004-000	Urinal Strainer	2EWD6
2755-000-001	Prison Toiler Control Stops	2EWD8
4016-100-001	Push Button Assembly	2EWE2
4025-051-001	Bubbler Assembly, Hemispherical	2EWE5
4025-011-001	Bubbler Assembly	2EWE4



Tamper-Resistant Screws No. 2EVN1



O-Rings No. 2EVN9



Shower Nozzle Assembly No. 2EVR6



Cartridge Assy. No. 2EVU4



Metering Diaphragm No. 2EVY5



Push Button Assy. No. 2EVZ9



Inside Cover No. 2EWC8



Control Stop No. 2EWA7

Toilet/Tissue Holder No. 23MU49



Security Bathroom Accessories

Accessories are designed to be stylish, functional, and for use in behavioral/mental health facilities where security or antiligature products are required.

Description	Material	W	H	D	Brand	Item No.
Bathroom Accessories						
Bookshelf	Stainless Steel	20"	7"	8⅞"	Bestcare	49T898
Flush Valve, Manual, 1.28 gph	—	—	—	—	Bestcare	38C425
Flush Valve, Manual, 1.6 gph	—	—	—	—	Bestcare	38C424
Ligature Resistant Flush Valve Cover, Stainless Steel, Left	Stainless Steel	—	—	—	Bradley	23MU41
Ligature Resistant Mirror	Stainless Steel	13"	17"	9/16"	Bestcare	38C411 *
Ligature Resistant Mirror	Stainless Steel	13"	23 23/64"	9/16"	Bestcare	38C412 *
Ligature Resistant Mirror Guard	Aluminum	24"	1¼"	5/8"	Odd Ball Ind.	38R020
Ligature Resistant Soap Dish	Stainless Steel	7"	7"	2⅜"	Bestcare	49T902
Ligature Resistant Soap Dish	Stainless Steel	7"	7"	2¾"	Bestcare	38C413
Recessed Shelf	304 Stainless Steel	18"	7"	4 1/16"	Odd Ball Ind.	38R014
Security Hook	304 Stainless Steel	4¼"	4¼"	⅛"	Odd Ball Ind.	38R016
Security Hook	Stainless Steel	4"	4"	2¼"	Bradley	23MU46
Security Hook	Stainless Steel	5"	5"	1¼"	Bradley	23MU53
Security Hook Strip	Stainless Steel	18"	5"	1¼"	Bradley	23MU47
Security Shelf	Stainless Steel	18"	7"	4"	Bradley	23MU48
Toilet Paper Dispenser, 5" Dia. Roll	304 Stainless Steel	7⅛"	7⅛"	4"	Odd Ball Ind.	38R015
Toilet Paper Holder	Stainless Steel	7"	7"	3 15/16"	Bradley	23MU49
Toilet Paper Holder, Recessed	Stainless Steel	7"	7"	4¾"	Bestcare	49T903
Toilet Paper Holder, Recessed	Stainless Steel	11¼"	7¾"	3½"	Bestcare	49T904

L (in.)	H (in.)	D (in.)	Brand	Item No.
Grab Bars, Stainless Steel				
18	3¼	3	Bestcare	38C430
24	3¼	3	Bestcare	38C431
30	3¼	3	Bestcare	38C432
36	3¼	3	Bestcare	38C433
42	3¼	3	Bestcare	38C434
48	4¾	3	Bestcare	38C435

L (in.)	H (in.)	D (in.)	Brand	Item No.
Grab Bars, Powder Coat				
24	5¼	3 5/32	Odd Ball Ind.	38R008
42	5¼	3 5/32	Odd Ball Ind.	38R011
Grab Bars, Powder Coat, Vertical				
18	—	4 1/16	Odd Ball Ind.	38R013

With white powder-coated finish.



Door No. G3328



Panel No. G3388



Headrail No. 1FBX1

Individual Bathroom Partition Components

- For technical help with partition design and material lists for your unique project, contact our technical product experts at 1-800 GRAINGER (472-4643).

Pilasters—Come with type 304 stainless steel trim shoes and an anchor kit that attaches the pilaster to the floor.

Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Baked Enamel Steel					
ADA Compliant Door	36 in	58 in	1 in	Almond, Black, Charcoal, Dark Khaki, Gray, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	G3311
Door	24 in	58 in	1 in		G3309
	26 in	58 in	1 in		G3310
Panel	22 in	58 in	1 in		G3385
	34 in	58 in	1 in		G3386
	55 in	58 in	1 in		G3312
	58 in	58 in	1 in		G3313
	60 in	58 in	1 in		G3314
Pilaster	3 in	82 in	1 ¼ in		G3315
	4 in	82 in	1 ¼ in		G3316
	5 in	82 in	1 ¼ in		G3317
	6 in	82 in	1 ¼ in		G3318
	7 in	70 in	1 ¼ in	Almond, Black, Charcoal, Dark Khaki, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	G3387
	7 in	82 in	1 ¼ in	Almond, Black, Charcoal, Dark Khaki, Gray, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	G3319
	8 in	82 in	1 ¼ in		G3320
	10 in	82 in	1 ¼ in		G3321
	12 in	82 in	1 ¼ in		G3322
	18 in	82 in	1 ¼ in		G3323
	22 in	82 in	1 ¼ in		G3324
	24 in	82 in	1 ¼ in		G3325
Urinal Partition w/ out Pilaster	18 in	42 in	1 in		G3326
	24 in	42 in	1 in		G3327

CONTINUED

CONTINUED

Individual Bathroom Partition Components

GLOBAL PARTITIONS

Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Plastic Laminate					
ADA Compliant Door	36 in	58 in	1 in	Almond, Sand	G3368
Door	24 in	58 in	1 in		G3366
	26 in	58 in	1 in		G3367
Panel	22 in	58 in	1 in		G3394
	34 in	58 in	1 in		G3395
	55 in	58 in	1 in		G3369
	58 in	58 in	1 in		G3370
	60 in	58 in	1 in		G3371
Pilaster	3 in	82 in	1 ¼ in		G3372
	4 in	82 in	1 ¼ in		G3373
	5 in	82 in	1 ¼ in		G3374
	6 in	82 in	1 ¼ in		G3375
	7 in	70 in	1 ¼ in		G3396
	7 in	82 in	1 ¼ in		G3376
	8 in	82 in	1 ¼ in		G3377
	10 in	82 in	1 ¼ in		G3378
	12 in	82 in	1 ¼ in		G3379
	18 in	82 in	1 ¼ in		G3380
	22 in	82 in	1 ¼ in		G3381
	24 in	82 in	1 ¼ in		G3382
Urinal Partition w/ out Pilaster	18 in	42 in	1 in		G3383
	24 in	42 in	1 in		G3384
Solid Plastic Polymer					
ADA Compliant Door	36 in	55 in	1 in	Black, Blue, Charcoal, Gray	G3330
	35 ½ in	55 in	1 in	Cream	G3330
Door	24 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	G3328
	26 in	55 in	1 in		G3329
Panel	22 in	55 in	1 in		G3388
	34 in	55 in	1 in		G3389
	55 in	55 in	1 in	Black, Blue, Charcoal	G3331
	58 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	G3332
	60 in	55 in	1 in		G3333

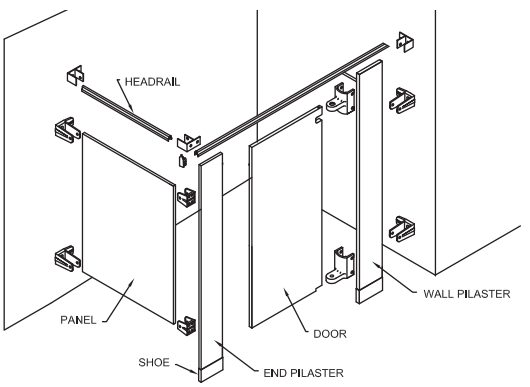
Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Solid Plastic Polymer (Cont.)					
Pilaster	3 in	82 in	1 in	Black, Blue, Charcoal, Cream, Gray	G3334
	4 in	82 in	1 in		G3335
	5 in	82 in	1 in		G3336
	6 in	82 in	1 in		G3337
	7 in	70 in	1 in		G3390
	7 in	82 in	1 in		G3338
	8 in	82 in	1 in		G3339
	10 in	82 in	1 in		G3340
	12 in	82 in	1 in		G3341
	18 in	82 in	1 in		G3342
	22 in	82 in	1 in		G3343
	24 in	82 in	1 in		G3344
Urinal Partition w/out Pilaster	18 in	42 in	1 in		G3345
	24 in	42 in	1 in		G3346
Stainless Steel					
ADA Compliant Door	36 in	58 in	1 in	Satin	2EHH6
Door	24 in	58 in	1 in		2EHH4
	26 in	58 in	1 in		2EHH5
Panel	55 in	58 in	1 in		2EHK3
	58 in	58 in	1 in		2EHK4
	60 in	58 in	1 in		2EHK5
Pilaster	3 in	82 in	1 ¼ in		2EHH8
	4 in	82 in	1 ¼ in		2EHH9
	5 in	82 in	1 ¼ in		2EHJ1
	6 in	82 in	1 ¼ in		2EHJ2
	7 in	82 in	1 ¼ in		2EHJ3
	8 in	82 in	1 ¼ in		2EHJ4
	10 in	82 in	1 ¼ in		2EHJ5
	12 in	82 in	1 ¼ in		2EHJ6
	18 in	82 in	1 ¼ in		2EHJ7
	22 in	82 in	1 ¼ in		2EHJ8
	24 in	82 in	1 ¼ in		2EHJ9
Urinal Partition w/out Pilaster	18 in	42 in	1 in		2EHK6
	24 in	42 in	1 in		2EHK7

Item	For Use On	W	H	Thickness	Item No.
Aluminum/Brushed Finish					
Headrail	Steel Partition	98"	1¾"	2½"	1FBX1

Bathroom Partition Kits

GA GRAINGER APPROVED

- Include all necessary components and hardware



Bathroom Partition Type	Overall Dim. W	H	D	Satin Item No.
Stainless Steel Material				
Single Compartment	36"	82"	60"	7A0A1
Urinal Partition w/Pilaster	7"	70"	24"	7A0A4
	7"	70"	36"	7A0A5

Bathroom Partition Type	Overall Dim. W	H	D	Almond Item No.	Sand Item No.
Plastic Laminate Material					
Urinal Partition w/Pilaster	7"	70"	24"	7AG29	7AW53
	7"	70"	36"	7AG30	7AW55

Bathroom Partition Type	Overall Dim. W	H	D	Almond Item No.	Black Item No.	Dove Gray Item No.	Folkstone Celesta Item No.	Graphite Grafix Item No.	Neutral Glace Item No.	Silver Gray Item No.
Phenolic Material										
Urinal Partition w/Pilaster	7"	70"	24"	7AW33	7AW27	7AW32	7AW30	7AW29	7AW34	7AW31
	7"	70"	36"	7AW43	7AW37	7AW42	7AW40	7AW39	7AW44	7AW41

Bathroom Partition Type	Overall Dim. W	H	D	Almond Item No.	Black Item No.	Blue Item No.	Charcoal Item No.	Dark Khaki Item No.	Gray Item No.	Khaki Item No.	Pepper Dust Item No.	Sandy Beach Item No.	White Item No.
Baked Enamel Steel Material													
Single Compartment	36"	82"	60"	7YP86	7AW61	7AW64	7AW57	7AW60	7YP78	7AW59	7AW63	7AW62	7AW58
Urinal Partition w/Pilaster	7"	70"	24"	7YP81	7AW85	7AW88	7AW81	7AW84	7YP89	7AW83	7AW87	7AW86	7AW82
	7"	70"	36"	7YP94	7AW93	7AW96	7AW89	7AW92	7YP96	7AW91	7AW95	7AW94	7AW90

Bathroom Partition Type	Overall Dim. W	H	D	Black Item No.	Blue Item No.	Charcoal Item No.	Cream Item No.	Gray Item No.
Solid Plastic Polymer Material								
Urinal Partition w/Pilaster	7"	70"	24"	7AV92	7AV89	7AV90	7YP93	7YP85
	7"	70"	36"	7AV96	7AV93	7AV94	7YP97	7YP95

GLOBAL PARTITIONS

Partition Hardware Packages and Accessories

Packages include all brackets and fasteners needed to assemble partition components. Fasteners are Torx® head screws that require a T25 Torx Power Bit, sold separately on page 702. For Toilet Partition Folding Shelf, order No. 4WMJ7 on page 2760. No Sight Kit No. 5JME1 helps block the sight line between the door and pilasters of the compartment for added privacy.

Use For	For Baked Enamel & Stainless Steel Partitions Material of Construc.	Item No.	For Solid Plastic Partitions Material of Construc.	Item No.	For Phenolic Partitions Material of Construc.	Item No.	For Plastic Laminate Partitions Material of Construc.	Item No.
Partition Hardware Packages								
Attachment of Mid Panel to Wall and Pilaster	Zamac	1FBX6	Aluminum	1FBY3	Stainless Steel	12V401	Zamac	3PEL3
Attachment of End Panel to Wall and Pilaster for Floor Mount Urinal Partitions	Zamac	1FBX5	Aluminum	1FBY2	Stainless Steel	12V399	Zamac	3PEL2
Attachment of Pilaster to Wall	Zamac	1FBX7	Aluminum	1FBY4	Stainless Steel	12V402	Zamac	3PEL4
Attachment of Panel to Pilaster Inline	Zamac	1FBX4	Stainless Steel	1FBY1	—	—	Zamac	3PEL5
Attachment of Headrail to Wall and Pilaster	Aluminum	1FBX3	Aluminum	1FBX3	Aluminum	1FBX3	Aluminum	1FBX3
For Wall Mount Urinal Partitions	Zamac	3PEK8	Aluminum	3PEL1	Stainless Steel	12V398	Zamac	3PEK9
No Sight Kit, Aluminum	Aluminum	5JME1	—	—	—	—	—	—
Components								
Flat Stop and Keeper	Stainless Steel	2EHK8	Stainless Steel	3PEN9	Stainless Steel	3PEN9	Stainless Steel	3PEN9
Stop and Keeper, Universal	Zamac	2EHK9	—	—	—	—	—	—
Stop and Keeper, Inswing Door	—	—	Zamac	3PEN7	Zamac	12V405	Zamac	3PEN5
Stop and Keeper, Outswing Door	—	—	Zamac	3PEN8	Zamac	12V406	Zamac	3PEN6
Bumper and Coat Hook	Zamac	2EHL1	Zamac	2EHL1	—	—	Zamac	2EHL1
Door Pull	Zamac	2EHL2	Zamac	3PEN2	—	—	Zamac	3PEN1
ADA Concealed Latch Knobs	Zamac	2EHL3	—	—	—	—	—	—
Concealed Latch Knobs	Zamac	2EHL4	—	—	—	—	—	—
Slide Latch	—	—	Zamac	3PEN4	—	—	Zamac	3PEN3
Inswing Door Set	Zamac	2EHL5	Zamac	3PEL7	Zamac	12V396	Zamac	3PEL6
Outswing Door Set	—	—	—	—	Zamac	12V397	—	—
ADA Outswing Adder	Zamac	2EHL6	—	—	—	—	—	—
ADA Outswing Door Set	—	—	Zamac	3PEL9	—	—	Zamac	3PEL8

REPLACEMENT SHOES

Replace damaged trim shoes without dismantling the entire compartment.



Partition Hardware No. 1FBX6

W	H	Item No.
Stainless Steel Replacement Shoes for Baked Enamel and Stainless Steel Pilasters		
3"	3"	5JMC9
4"	3"	5JMD0
5"	3"	5JMD1
6"	3"	5JMD2
7"	3"	5JMD3
7"	3"	5JME0 **
8"	3"	5JMD4
10"	3"	5JMD5
12"	3"	5JMD6
18"	3"	5JMD7
22"	3"	5JMD8
24"	3"	5JMD9

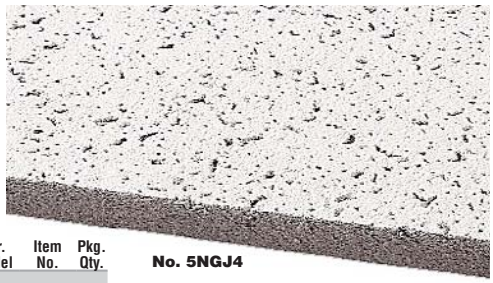
*** For floor-mounted urinal screen pilasters.*

Acoustical Ceiling Tiles

Armstrong CEILING SYSTEMS

- White color

A variety of edge types and surface textures to help you create the look you want. All tiles are durable, sag resistant, and have a Flame Spread Index 25 or less. Smoke Developed Index 50 or less. Include a 30-yr. limited system warranty against visible sag, mold/mildew, and bacterial growth (excludes Fissured, Cortega, and Designer products). Mineral fiber construction, except No. 32WN11 is ceramic, mineral fiber and Nos. 6EJL6 and 5UTN3 are fiberglass. All tiles have Class A Fire resistance, according to ASTM E84 and CAN/ULC S102 surface burning characteristics.



No. 5NGJ4

L	W	Thickness	Edge Type	Coverage	Noise Reduction Coefficient	Resistant To	Recycled Content	Mfr. Model	Item No.	Pkg. Qty.
Fine Fissured										
12"	12"	5/8"	Concealed	40 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	56%	746	**36N476**	40
		3/4"	Angled Tegular	48 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria, Scratch-Resistant	55%	1820A	**13Z992**	12
24"		5/8"	Angled Tegular	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	55%	1732	**6YLP9**	16
		5/8"	Beveled Tegular	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	55%	1734	**6YLR4**	16
	24"	5/8"	Square Lay-In	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	43%	1728A	**5NGK0**	16
48"		5/8"	Square Lay-In	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Scratch-Resistant, Fire Guard	55%	1830	**13Z993**	8
		3/4"	Square Lay-In	64 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria	55%	1811	**31LC02**	8
		5/8"	Square Lay-In	96 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	43%	1729A	**5NGJ3**	12
Fine Fissured Second Look										
48"	24"	3/4"	Angled Tegular	80 sq. ft.	0.55	Class A Fire Retardant	32%	1761C	**22XJ42**	10
Fissured										
		5/8"	Angled Tegular	64 sq. ft.	0.55	Class A Fire Retardant	34%	705A	**5NGK3**	16
24"		5/8"	Square Lay-In	64 sq. ft.	0.55	Class A Fire Retardant	34%	756A	**5NGJ7**	16
	24"	5/8"	Square Lay-In	64 sq. ft.	0.55	Fire Guard	41%	896	**19H050**	16
48"		5/8"	Square Lay-In	48 sq. ft.	0.55	Fire Guard	41%	895A	**34CY61**	6
		5/8"	Square Lay-In	96 sq. ft.	0.55	Class A Fire Retardant	34%	755B	**5NGJ2**	12
Dune and Dune Second Look										
		5/8"	Angled Tegular	64 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant	43%	1774	**6YLP7**	16
24"		5/8"	Beveled Tegular	64 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant	36%	1775	**6YLP8**	16
	24"	5/8"	Square Lay-In	64 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Scratch-Resistant	43%	1772	**13Z990**	16
		5/8"	Angled Tegular	64 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Scratch-Resistant	38%	1776A	**34CY63**	8
48"		3/4"	Angled Tegular	80 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Scratch-Resistant	51%	2712A	**36N474**	10
		5/8"	Square Lay-In	64 sq. ft.	0.50	Sag, Mold, Mildew, Bacteria, Scratch-Resistant	38%	1773A	**34CY62**	8
Cirrus®										
		3/4"	Angled Tegular	48 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria	63%	584B	**5UTN5**	12
24"	24"	3/4"	Beveled Tegular	48 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria	63%	589B	**5NGK4**	12
		3/4"	Square Lay-In	48 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria	63%	574B	**6YLR6**	12
Cirrus® Second Look										
48"	24"	3/4"	Beveled Tegular	48 sq. ft.	0.65	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	62%	513A	**32WM80**	6
Cirrus® Profiles - Classic Step™										
24"	24"	3/4"	Beveled Tegular	48 sq. ft.	0.65	Sag, Mold/Mildew, Impact Resistant, Scratch-Resistant, Soil	62%	591B	**22XJ44**	12
Ultima®										
		3/4"	Beveled Tegular	48 sq. ft.	0.8	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	77%	1911A	**5NGK1**	12
		3/4"	Beveled Tegular	48 sq. ft.	0.8	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	77%	1912A	**5UTN6**	12
24"		3/4"	Beveled Tegular	48 sq. ft.	0.8	Sag, Mold, Mildew, Soil, Bacteria, Scrub, Wash, Impact Resistant, Scratch-Resistant	76%	1936A	**42EM55**	12
	24"	3/4"	Square Lay-In	48 sq. ft.	0.75	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	77%	1910A	**13Z995**	12
		3/4"	Square Lay-In	48 sq. ft.	0.75	Sag, Soil, Mold, Mildew, Bacteria, Scratch-Resistant, Impact Resistant	77%	1935A	**48WC07**	12
48"		3/4"	Square Lay-In	48 sq. ft.	0.75	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	77%	1913A	**13Z996**	6
Georgian™ High Washability										
48"	24"	5/8"	Square Lay-In	96 sq. ft.	—	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	36%	793	**5NGJ6**	12
Georgian™										
24"		5/8"	Square Lay-In	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	36%	764C	**6YLR2**	16
	24"									
48"		5/8"	Square Lay-In	96 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant, Impact Resistant	36%	763D	**6EJL5**	12
Ceramaguard®										
48"	24"	5/8"	Square Lay-In	48 sq. ft.	—	Sag, Mold, Mildew, Bacteria	37%	605C	**13Z998**	6
		5/8"	Square Lay-In	48 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil	37%	608A	**32WN11**	6
Clean Room VL (Unperforated) - Fire Guard										
24"	24"	5/8"	Square Lay-In	48 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil, Fire Guard	41%	868B	**5NGK2**	12
48"		5/8"	Square Lay-In	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil, Fire Guard	41%	870B	**5UTN4**	8
Clean Room FL										
24"	24"	3/4"	Square Lay-In	48 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil	77%	1715B	**6YLR5**	12
48"		5/8"	Square Lay-In	64 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant	39%	1721B	**36N475**	8
Cortega Fire Guard										
		5/8"	Angled Tegular	48 sq. ft.	0.55	Fire Guard	41%	816A	**36N477**	12
24"	24"	5/8"	Square Lay-In	64 sq. ft.	0.55	Fire Guard	41%	824	**6YLR3**	16
48"		5/8"	Square Lay-In	48 sq. ft.	0.50	Fire Guard	41%	823A	**34CY60**	6
Cortega & Cortega Second Look										
		5/8"	Angled Tegular	64 sq. ft.	0.55	Class A Fire Retardant	25%	704A	**5NGJ8**	16
24"		5/8"	Beveled Tegular	64 sq. ft.	0.55	Class A Fire Retardant	41%	2195	**13Z997**	16
		5/8"	Square Lay-In	64 sq. ft.	0.55	Class A Fire Retardant	36%	770	**5NGJ4**	16
		3/4"	Angled Tegular	80 sq. ft.	0.55	Class A Fire Retardant	34%	2767D	**5NGJ9**	10
	24"	5/8"	Angled Tegular	80 sq. ft.	0.55	Class A Fire Retardant	34%	703B	**6YLR1**	10
48"		3/4"	Angled Tegular	80 sq. ft.	0.55	Class A Fire Retardant	34%	2776B	**32WM10**	10
		3/4	Angled Tegular	80 sq. ft.	0.55	Class A Fire Retardant	34%	2765D	**13A867**	10
		5/8"	Square Lay-In	96 sq. ft.	0.55	Class A Fire Retardant	34%	769A	**5NGJ1**	12
Shasta										
48"	24"	5/8"	Square Lay-In	128 sq. ft.	0.70	Sag, Mold, Mildew, Bacteria	82%	2906	**6EJL6**	16
Random Fissured										
48"	24"	5/8"	Square Lay-In	128 sq. ft.	0.55	Sag, Mold, Mildew, Bacteria	71%	2911A	**5UTN3**	16
Kitchen Zone™										
24"	24"	5/8"	Square Lay-In	64 sq. ft.	—	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant	51%	673	**20CA77**	16
48"		5/8"	Square Lay-In	96 sq. ft.	—	Sag, Mold, Mildew, Bacteria, Soil, Scratch-Resistant	51%	672	**20CA76**	12

Type	Load Carrying (lb. per Linear ft.)	L	W	H	Mfr. Model	Item No.
Suspension Systems						
Prelude Wall Molding, 144"L	—	144"	7/8"	7/8"	7800RWH	**5NHE4**
Prelude Cross Tee, 24"L	40.45	24"	15/16"	1 3/8"	XL7328RW	**5NHE3**
Prelude Cross Tee, 48"L	9.00	48"	15/16"	1 1/2"	XL7342	**6EJL8**
Prelude Cross Tee, 48"L	8.31	48"	15/16"	1 3/8"	XL7348RW	**5NHE2**
Prelude Main Beam, 144"L	12.80	144"	15/16"	1 11/16"	7300XRWH	**5NHE1**

Fine Fissured—Provide excellent sag resistance.

Fine Fissured Second Look—Feature an innovative look where the panel is scored to look like a 2 ft. x 2 ft. panel. Compatible with standard suspension systems.

Fissured—Economical panels come with a directional, fissured visual offers standard acoustics.

Dune and Dune Second Look—Nondirectional appearance helps reduce installation time. Durable, scratch-resistant surface.

Cirrus®—Offer a medium-textured appearance with excellent noise reduction, sag resistance, high light reflectance, antimicrobial treatment, and no added formaldehyde.

Cirrus® Profiles - Classic Step™—Medium-textured appearance with edge details carved into the panels. Compatible with standard suspension systems.

Ultima®—Offer excellent noise reduction, sag resistance, high light reflectance, antimicrobial treatment, and no added formaldehyde, in a high-impact, scratch-resistant, washable, and scrubbable tile.

Georgian™ High Washability and Clean Room VL—Unperforated Class 5 (Class 100) tiles offer high wash and scrubbability, and soil resistance. Impact and scratch resistant. Meet USDA/FSIS guidelines for food processing areas.

Ceramaguard®—Nondirectional, smooth texture and resistant to chemical fumes. For high-moisture locations including shower areas and indoor parking garages.

Clean Room FL—Unperforated Class 5 (Class 100) tiles feature high scrubbability and washability plus impact, scratch, and soil resistance. Meet USDA/FSIS guidelines in food processing areas.

Kitchen Zone™—Easy-to-clean panels feature up to 20% more light reflectance than vinyl-covered gypsum. The smooth surface meets USDA/FSIS guidelines in food processing areas.

Suspension Systems—SuperLock™ clips allow fast and secure connections with accurate alignment. Rotary stitching adds strength. PeakForm™ profile increases strength and grid stability. Meet seismic requirements when installed according to ICC ESR-1308.

Description	Item No.
SuperCoat™ Touch-Up Paint	
Ceiling Tile Touch-Up Paint, Brush In Cap, 8 oz., White	**5NTW4**



RAIN BIRD

Drip Irrigation Systems

Deliver water directly to plant base to help conserve water and reduce costs.

Drip Bubbler Conversion Kit No. 14U327—Converts a pop-up spray into a water-saving micro bubbler zone.

Drip Emitter Conversion Kit No. 14U326—Converts an existing pop-up spray head into a water-saving drip system with 6 spot watering emitters. Ideal for larger planting beds and gardens.

Micro Bubblers (Nos. 2EMD7, 2EMD8) and Micro Sprays (Nos. 2EME2, 2EME3)—Low-flow watering heads with drip irrigation systems. Adjustable flow and radius and uniform emission patterns. Include stake and ¼" fitting.

Item	Item No.	Pkg. Qty.
360° Adjust Pattern Mister	14U330	2
360° Micro Bubbler	14U331	2
Drip Bubbler Conversion Kit	14U327	1
Drip Emitter Conversion Kit	14U326	1
Emitter and Diffuser	14U329	5
Emitter Tool	2EMD3	1
Faucet Connection Kit	2EME6	1
Full Circle Micro Bubbler	2EMD7	4
Full Circle Micro Spray	2EME2	2

Item	Item No.	Pkg. Qty.
Half Circle Micro Bubbler	2EMD8	4
Half Circle Micro Spray	2EME3	2
Landscape Drip Irrigation Kit	2EMA6	1
Mounting Clip	2EMD9	10
Riser Connection Kit	2EME7	1
Six Outlet Emitter	2EME1	1
Spot Watering Emitters	2EMD1	10
Spot Watering Emitters	2EMD2	10

Description	For ¼" Tubing Item No.	Pkg. Qty.	For ½" Tubing Item No.	Pkg. Qty.
Blank Tubing, 100 ft.	2EME5	1	2EMA9	1
Emitter Tubing	2EMA8 *	1	2EMA7 *	1
Barbed Tee	2EMC1	10	2EMC6	4
Barbed Coupling	2EMC2	10	2EMC5	4
Barbed Elbow	—	—	2EMC7	4
Barbed End Plug	2EMC3	10	—	—
End Closure	—	—	2EMC8	2
Tubing Stake	2EMC4	10	2EMC9	10

**** Deliver water directly to plant base to help conserve water and reduce costs.***







RAIN BIRD

Professional Underground Sprinkler Systems

Timers and Sensor—Use No. 4KEA1 to adjust watering schedule for each area and the flow rate of each sprinkler. Has an auto rain shut-off to stop operation during rain, and easily linked to existing drip watering systems. No. 38W346 has easy-to-use controls, a LCD, and battery backup. No. 2EMF1 is adjustable to varying amounts of rainfall.

Valves—Use antisiphon valves in above-ground applications. Feature an adjustable flow control and help prevent wasteful misting when water pressure is too high. Use automatic in-line valves in pump systems where backflow protection is already installed.

Mini Rotors—Can be installed in the same zone as large rotors. Lower flow reduces potential runoff, allowing more heads per zone to reduce overall system complexity and cost.

Pop-Up Gear-Driven Rotors and Nozzles—Design protects the easily adjustable rotors from dirt and debris. Mount on riser No. 1YHC6 to clear tall shrubs.

Pop-Up Spray Heads with Nozzles—The 4", 6", and 12" 1800 Series spray heads are efficient at low pressures.

Description	Spacing	Item No.
Timers and Sensor		
Sprinkler Timer, 9-Zone, 7 Days, Rain Delay Command	—	4KEA1
Electronic Hose End Timer, ¾" Hose Thread	—	38W346
Rain Sensor	—	2EMF1
Valves, 125 psi Max., 24V, 50/60 Hz		
Anti-siphon Valve, Professional Grade, ¾" FNPT	—	5Z297
Anti-siphon Valve, Professional Grade, 1" FNPT	—	5Z298
Automatic In-line, ¾", FPT	—	5Z299
Automatic In-line, 1", FPT	—	5Z300
Impact Sprinkler Heads, ½" Inlet		
Brass, Adjustable	18 to 24 ft.	5Z285
Plastic, 20° to 340° Arc or Full Circle	24 to 45 ft.	1YHA5
Pop-Up Impact Rotors, ½" Side and Bottom Inlets		
3" Mini Paw, Adjustable, 0° to 360°	18 to 24 ft.	5Z283
3" Maxi Paw, Adjustable, 20° to 360°	24 to 45 ft. w/Nozzle	3W973
Mini Rotors		
6" Pop-Up Rotor, ½" Inlet, Full Circle	13 to 18 ft. w/Nozzle	4KDZ7
6" Pop-Up Rotor, ½" Inlet, Half Circle	8 to 15 ft.	4KDZ8
6" Pop-Up Rotor, ½" Inlet, Quarter Circle	4 to 18 ft. w/Nozzle	4KDZ9
6" Pop-Up Rotor, ½" Inlet, Full Circle	8 to 15 ft.	4KDZ4
6" Pop-Up Rotor, ½" Inlet, Half Circle	8 to 15 ft.	4KDZ5
6" Pop-Up Rotor, ½" Inlet, Quarter Circle	8 to 15 ft.	4KDZ6
Pop-Up Gear Driven Rotors and Nozzles		
4" Plastic, ½" Inlet, Adjustable	8 to 15 ft.	4JY63
4" Plastic, ¾" Inlet, Adjustable	26 to 38 ft.	4JY64
4" Stainless Steel, ¾", Adjustable	13 to 18 ft.	1YHA6
Nozzle Set, For Use with No. 4JY63	—	1YHA7
Nozzle Set, For Use with No. 4JY64	—	1YHA8
Shrubbery Spray Heads and Bubbler, ½" Inlet		
Shrubbery Spray Head, Quarter Circle	8 to 15 ft.	5Z294
Shrubbery Spray Head, Half Circle	8 to 15 ft.	5Z295
Shrubbery Spray Head, Full Circle	8 to 15 ft.	5Z296
Full-Circle Bubbler	11 to 15 ft.	1YHC4

Description	Spacing	Item No.
Pop-Up Spray Heads with Nozzles, ½" Inlet, NPT Connection		
2½" Sure Pop® Quarter Circle	18 to 24 ft.	5Z288
2½" Sure Pop® Half Circle	20 to 41 ft.	5Z289
2½" Sure Pop® Full Circle	19 to 32 ft.	5Z290
2½" Sure Pop® Adjustable	11 to 15 ft.	3W971
4" 1804 Quarter Circle	19 to 32 ft.	5Z291
4" 1804 Half Circle	26 to 38 ft.	5Z292
4" 1804 Full Circle	25 to 50 ft.	5Z293
4" 1804 Adjustable	8 to 15 ft.	3W972
4" 1802 Quarter Circle	8 to 15 ft.	6YPP1
4" 1802 Half Circle	8 to 15 ft.	6YPP0
4" 1802 Full Circle	26 to 41 ft.	6YPN9
4" 1802 Adjustable	24 to 45 ft.	6YPN8
6" 1806 Adjustable	11 to 15 ft.	2EME8
12" 1812 Adjustable	3 to 20 ft.	2EME9
Pop-Up Spray Heads w/o Nozzles, ½" Inlet, NPT Connection		
4" 1802 Without Nozzle	8 to 15 ft.	6YPP3
4" 1804 Without Nozzle	13 to 18 ft.	1YHB4
Nozzles		
Spray Head Nozzle, Quarter Circle	7 to 15 ft.	1YHC1
Spray Head Nozzle, Half Circle	7 to 15 ft.	1YHB9
Spray Head Nozzle, Full Circle	7 to 15 ft.	1YHB8
Rotary Sprinkler Nozzle, PVC, Quarter Circle	13 to 24 ft.	6YPN4
Rotary Sprinkler Nozzle, PVC, Half Circle	13 to 24 ft.	6YPN3
Rotary Sprinkler Nozzle, PVC, Full Circle	13 to 24 ft.	6YPN2
Rotary Sprinkler Nozzle, PVC, Quarter Circle	13 to 24 ft.	6YPN7
Rotary Sprinkler Nozzle, PVC, Half Circle	13 to 24 ft.	6YPN6
Rotary Sprinkler Nozzle, PVC, Full Circle	13 to 24 ft.	6YPN5
Center Strip	7 to 15 ft.	1YHC2
Side Strip	7 to 15 ft.	1YHC3
Accessories		
Head Removal Wrench for Nos. 5Z283, 3W973	—	5Z303
Solenoid Replacement Kit for Nos. 5Z299, 5Z300	—	1YHB2
Diaphragm Replacement Kit for Nos. 5Z299, 5Z300	—	1YHB3
Spray Head Pull Up Tool, 5½" H	—	1YHC5
Cut-Off Riser, ½" NPT X 6" H	—	1YHC6







Brass Irrigation Sprinkler Heads and Fittings

GRAINGER APPROVED

Professional-quality components for general landscape irrigation, nursery, and greenhouse applications.

Description	Connection	H	W	Item No.
Quick Coupling Valves; Max. Pressure 125 psi				
Quick Coupling Valve	¾" FNPT	4"	2"	4NDN8
	1" FNPT	5.2"	2.2"	4NDN9

Description	Connection	H	W	Item No.
Control Valve Keys				
Valve Control Key, 30" L	—	—	—	4NDR1
Quick Coupling Key; Max. Pressure 125 psi				
Quick Coupling Key	¾" MNPT	6"	1.1"	4NDP1
	1" MNPT	9"	1.2"	4NDP2

Connection	Pressure Range	Spacing	H	W	Item No.
Sprinkler Heads					
½" MNPT	25 to 55 psi	30 to 45 ft.	4"	4⅛"	4NDP5
1" MNPT	35 to 75 psi	48 to 76 ft.	7 13/16"	8½"	4NDP6
¾" MNPT	35 to 80 psi	40 to 70 ft.	5 5/16"	5 13/16"	4NDP7
¾" MNPT	30 to 60 psi	40 to 55 ft.	5⅞"	6 3/16"	4NDP8

Description	Connection	Item No.
Irrigation Fittings; Max. Pressure: 125 psi		
Compression Tee	⅜" pipe on Through compressions, ½" FNPT on Branch Tee	4NDT3
	½" pipe on Through compressions, ½" FNPT on Branch Tee	4NDT6
	½" pipe on Through compressions, ¾" FNPT on Branch Tee	4NDT4
Garden Hose Wye	¾" NHT	4NDT2
¾ x ½" Swivel, Double Female	¾" FGHT x ½" FNPT	4KG87
¾ x ¾" Double Male	¾" MGHT	4KG82
Hose Swivel	¾" MHT x ¾" FNPT	4NDP3
	¾" x 1" MHT x FPT	4NDP4

Plastic Cam and Groove Fittings

Fittings consist of a grooved male nipple (adapter) and a female cam (coupler or camlock) that tighten together to form a seal.

Polypropylene—Lightweight thermoplastic material resists UV, weathering, corrosion, and ozone damage. Commonly used with treated water, corrosive solvents, and chemicals.

Nylon—Fittings resists corrosion and changes in humidity, withstand higher temperatures than polypropylene, and won't scratch delicate surfaces.

Glass-Filled Polypropylene—Uses glass fibers for extra reinforcement. This combination adds stability and strength to resist UV, weathering, and corrosion.

Dust Caps and Plugs—Seal leaks and prevent debris or other materials from entering the connection.

Coupling Size	Thread Size	Polypropylene Max. Working Pressure @ 70°F	Item No.	Nylon Max. Working Pressure @ 70°F	Item No.
Type A					
No Locking Arm					
¾"	½"-14	225 psi	**1MJU9**	150 psi	**55EF69**
¾"	¾"-14	225 psi	**1MJV1**	150 psi	**55EF70**
1"	1"-11½	300 psi	**1DPJ8**	250 psi	**55EF71**
1"	1¼"-11½	300 psi	**1DPK6**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF72**
1½"	1½"-11½	225 psi	**1DPL3**	250 psi	**55EF73**
2"	2"-11½	225 psi	**1DPN4**	250 psi	**55EF74**
2½"	2½"-8	—	—	225 psi	**55EF75**
3"	3"-8	100 psi	**1MJT1**	200 psi	**55EF76**
4"	4"-8	75 psi	**1MJU1**	100 psi	**55EF77**
Type B					
No Locking Arm					
¾"	½"-14	300 psi	**1MJV2**	150 psi	**55EF78**
¾"	¾"-14	300 psi	**1MJV3**	150 psi	**55EF79**
1"	1"-11½	300 psi	**1DPJ9**	250 psi	**55EF80**
1"	1¼"-11½	300 psi	**1DPK7**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF81**
1½"	1½"-11½	300 psi	**1DPL4**	250 psi	**55EF82**
2"	2"-11½	225 psi	**1DPN5**	250 psi	**55EF83**
2½"	2½"-8	—	—	225 psi	**55EF84**
3"	3"-8	150 psi	**1MJT2**	200 psi	**55EF85**
4"	4"-8	150 psi	**1MJU2**	100 psi	**55EF86**
Type D					
No Locking Arm					
¾"	½"-14	300 psi	**1DPH7**	150 psi	**55EF96**
¾"	¾"-14	300 psi	**1DPJ3**	150 psi	**55EF97**
1"	1"-11½	300 psi	**1DPK2**	250 psi	**55EF98**
1"	1¼"-11½	300 psi	**1DPK9**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF99**
1½"	1½"-11½	300 psi	**1DPL7**	250 psi	**55EG01**
2"	2"-11½	200 psi	**1DPN8**	250 psi	**55EG02**
2½"	2½"-8	—	—	225 psi	**55EG03**
3"	3"-8	200 psi	**1MJT5**	200 psi	**55EG04**
4"	4"-8	100 psi	**1MJU5**	100 psi	**55EG05**
Type F					
No Locking Arm					
¾"	½"-14	300 psi	**1DPH9**	—	—
¾"	¾"-14	300 psi	**1DPJ5**	150 psi	**55EG15**
1"	1"-11½	300 psi	**1DPK4**	250 psi	**55EG16**
1"	1¼"-11½	300 psi	**1DPL2**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EG17**
1½"	1½"-11½	300 psi	**1DPN1**	250 psi	**55EG18**
2"	—	150 psi	**5MLV1**	—	—
2"-,-3"	—	75 psi	**5MLV3**	—	—
2"	2"-11½	300 psi	**1DPP2**	250 psi	**55EG19**
2½"	2½"-8	—	—	225 psi	**55EG20**
3"	—	75 psi	**5MLV2**	—	—
3"	3"-8	100 psi	**1MJT7**	200 psi	**55EG21**
4"	4"-8	75 psi	**1MJU7**	100 psi	**55EG22**
Type DA					
No Locking Arm					
3"-Socket x 2"-Plug	—	200 psi	**5MLV0**	—	—

Coupling Size	Hose Fitting Size	Polypropylene Max. Working Pressure @ 70°F	Item No.	Nylon Max. Working Pressure @ 70°F	Item No.
Type C					
No Locking Arm					
¾"	½"	300 psi	**1DPH6**	150 psi	**55EF87**
¾"	¾"	300 psi	**1DPJ1**	150 psi	**55EF88**
1"	1"	300 psi	**1DPK1**	250 psi	**55EF89**
1"	1¼"	300 psi	**1DPK8**	—	—
1¼"	1¼"	—	—	250 psi	**55EF90**
1½"	1½"	300 psi	**1DPL5**	250 psi	**55EF91**
2"	2"	225 psi	**1DPN6**	250 psi	**55EF92**
2½"	2½"	—	—	225 psi	**55EF93**
3"	3"	200 psi	**1MJT3**	200 psi	**55EF94**
4"	4"	150 psi	**1MJU3**	100 psi	**55EF95**
Type E					
No Locking Arm					
¾"	½"	300 psi	**1DPH8**	150 psi	**55EG06**
¾"	¾"	300 psi	**1DPJ4**	150 psi	**55EG07**
1"	1"	300 psi	**1DPK3**	250 psi	**55EG08**
1"	1¼"	300 psi	**1DPL1**	—	—
1¼"	1¼"	—	—	250 psi	**55EG09**
1½"	1½"	200 psi	**1DPL9**	250 psi	**55EG10**
2"	2"	200 psi	**1DPP1**	250 psi	**55EG11**
2½"	2½"	—	—	225 psi	**55EG12**
3"	3"	150 psi	**1MJT6**	200 psi	**55EG13**
4"	4"	50 psi	**1MJU6**	100 psi	**55EG14**

Coupling Size	Max. Working Pressure @ 70°F	Polypropylene Item No.	Glass-Filled Polypropylene Item No.
Type DC, Dust Cap			
Includes Locking Arm			
2"	—	—	**4YLL3**
3"	—	—	**4YLL5**
4"	—	—	**4YLL7**
No Locking Arm			
¾"	300 psi	**1DPJ2**	—
1"	300 psi	**1DPJ6**	—
1½"	300 psi	**1DPL6**	—
2"	200 psi	**1DPN7**	—
3"	100 psi	**1MJT4**	—
4"	100 psi	**1MJU4**	—
Type DP, Dust Plug			
No Locking Arm			
¾"	70 psi	**1MJV5**	—
1"	300 psi	**1DPJ7**	—
1½"	225 psi	**1DPN3**	—
2"	225 psi	**1MJR9**	—
3"	—	—	**4YLL4**
3"	150 psi	**1MJT9**	—
4"	—	—	**4YLL6**



Polypropylene Type A No. 1MJU9



Nylon Type B No. 55EF78



Polypropylene Type D No. 1DPH7



Nylon Type F No. 55EG15



Polypropylene Type C No. 1DPH6



Nylon Type E No. 55EG06

No. 4YLL8



GA GRAINGER APPROVED

Glass-Filled Polypropylene Cam Arm Locks

Locks fit around a coupler and hold cam arms in place to prevent tampering and avoid accidental uncoupling. Used in water treatment, waste/vacuum trucks, and chemical movement and storage.

Coupling Size	Overall Length	Item No.
2"	3¾"	**4YLL8**
3"	5¼"	**4YLL9**
4"	6"	**4YLN1**

No. 34K329



BANJO CORPORATION

Polypropylene Dry Disconnect Couplings

Designed for connecting and disconnecting hoses and pipelines without spills or leaks. Couplings have a double ball valve design that allows maximum flow, but they cannot be uncoupled in an open position. FKM gasket. For use in pharmaceutical, chemical, and petroleum processing.

Item	Coupling Size	Thread Size	Max. Working Pressure @ 70°F	Overall Length	Item No.
Cam and Groove	2"	2"	100 psi	4 7/16"	**34K329**
Coupling with Valve	2"	2"	100 psi	6 21/32"	**34K328**
Cam and Groove Adapter	2"	2"--11-1/2	150 psi	6 17/32"	**34K352**



304 Stainless Steel
Type A
No. 55EF37



316 Stainless Steel
Type B
No. 55MV89



Forged Brass
Type F
No. 5CGD4



Aluminum
Type AA
No. 26W655

Metal Cam and Groove Fittings

These fittings are hose couplings that connect or disconnect pipe, tubing, or hose without tools. Also known as camlock couplings, they consist of a grooved male adapter and a female cam that tighten together to form a seal.

304 and 316 Stainless Steel— Withstands pressure and high temperatures and resists corrosion when handling caustic chemicals, and other potentially corrosive fluids, oils, and gases.

Aluminum—Lightweight and corrosion-resistant, aluminum is more susceptible to scratches and wear unless alloyed with other metals for strength. Commonly used with water, chemicals, hydraulic oil, and petroleum products.

Forged Brass—Compatible with copper or zinc piping and maintains its durability at high temperatures, is highly conductive, and resists corrosion. Commonly used with water, coolants, gasolines, hydraulic oils, and petroleum products.

Dust Caps and Plugs—Seal leaks and prevent debris or other materials from entering the connection.

Coupling Size	Thread Size	Max. Working Pressure @ 70°F	304 Stainless Steel Item No.	316 Stainless Steel Item No.	Aluminum Item No.	Forged Brass Item No.
Type A						
Includes Locking Arm						
1"	1"-11½	250 psi	—	—	—	5CGC7
1½"	1½"-11½	250 psi	—	—	—	5CGD5
2"	1½"-11½	250 psi	—	—	26W621	—
2"	2"-11½	250 psi	—	—	—	5CGE3
2"	3"-8	125 psi	—	—	26W622	—
3"	2"-11½	125 psi	—	—	26W623	—
3"	3"-8	125 psi	—	—	—	5CGF1
3"	4"-8	100 psi	—	—	26W624	—
4"	3"-8	100 psi	—	—	26W625	—
4"	4"-8	100 psi	—	—	—	5CGF9
4"	6"-8	75 psi	—	—	26W626	—
6"	4"-8	75 psi	—	—	26W627	—
No Locking Arm						
½"	½"-14	150 psi	743P19	55MV57	55MU97	55MH34
¾"	¾"-14	150 psi	743P20	—	—	—
¾"	¾"-14	250 psi	—	55MV58	55MU98	55MH62
1"	1"-11½	250 psi	743P21	3LW93	3LW92	—
1¼"	1¼"-11½	250 psi	55EF37	—	—	55MG64
1¼"	1¼"-11-1/2	250 psi	—	55MV59	55MU99	—
1½"	1½"-11½	250 psi	743P22	3LX10	3LX09	—
2"	1½"-11½	250 psi	—	55MF95	—	—
2"	1½"-11-1/2	250 psi	—	—	55MV01	—
2"	2"-11½	250 psi	743P23	3LX27	3LX26	—
2½"	2½"-8	150 psi	—	55MV60	55MV02	55MG91
2½"	2½"-8	225 psi	55EF38	—	—	—
3"	2"-11-1/2	125 psi	—	55MV61	55MV03	—
3"	3"-8	125 psi	—	3LX43	3LX42	—
3"	3"-8	200 psi	743P24	—	—	—
4"	3"-8	100 psi	—	55MV62	55MV04	—
4"	4"-8	100 psi	743P25	55MV63	3LX59	—
5"	5"-8	75 psi	55EF39	55MV64	55MV05	55MH18
6"	6"-8	75 psi	55EF40	55MV65	55MV06	—
Type B						
Includes Locking Arm						
½"	½"-14	150 psi	—	55MV89	55MV30	55MH37
¾"	¾"-14	250 psi	—	55MV90	55MV31	55MG38
1"	1"-11½	250 psi	—	3LW95	3LW94	55MG39
1"	1"-11½	250 psi	—	—	—	5CGC8
1¼"	1¼"-11-1/2	250 psi	—	55MV91	55MV32	—
1½"	1½"-11½	250 psi	—	3LX12	3LX11	5CGD6
2"	1½"-11½	250 psi	—	—	26W636	—
2"	2"-11½	250 psi	—	3LX29	3LX28	5CGE4
2½"	2½"-8	150 psi	—	55MV92	55MV33	55MG94
3"	2"-11½	125 psi	—	—	26W637	—
3"	3"-8	125 psi	—	3LX45	3LX44	5CGF2
3"	3"-8	250 psi	—	—	4YGC2	—
3"	4"-8	100 psi	—	—	26W638	—
4"	½"-14	150 psi	—	55MH78	—	—
4"	3"-8	100 psi	—	—	26W639	—
4"	4"-8	100 psi	—	55MV93	3LX61	5CGG0
4"	4"-8	250 psi	—	—	4YGC3	—
5"	5"-8	75 psi	—	55MV94	55MV34	55MH20
6"	6"-8	75 psi	—	55MV95	55MV35	—
No Locking Arm						
½"	½"-14	150 psi	743P26	—	—	—
¾"	¾"-14	150 psi	743P27	—	—	—
1"	1"-11½	250 psi	743P28	—	—	—
1¼"	1¼"-11½	250 psi	55EF41	—	—	—
1½"	1"-11½	250 psi	—	55MF89	55MF88	—
1½"	1½"-11½	250 psi	743P29	—	—	—
2"	1½"-11½	250 psi	—	55MF96	—	—
2"	2"-11½	250 psi	743P30	—	—	—
2"	3"-8	125 psi	—	—	55MG03	—
2½"	2½"-8	225 psi	55EF42	—	—	—
3"	2"-11½	125 psi	—	55MG05	—	—
3"	3"-8	200 psi	743P31	—	—	—
4"	3"-8	100 psi	—	55MG11	—	—
4"	4"-8	100 psi	743P32	—	—	—
5"	5"-8	75 psi	55EF43	—	—	—
6"	6"-8	75 psi	55EF44	—	—	—
Type D						
Includes Locking Arm						
½"	½"-14	150 psi	—	55MW06	55MV45	55MH43
¾"	¾"-14	250 psi	—	55MW07	55MV46	55MH67
1"	1"-11½	250 psi	—	3LW99	3LW98	5CGD0
1¼"	1¼"-11-1/2	250 psi	—	55MW08	55MV47	—
1½"	1½"-11½	250 psi	—	3LX16	3LX15	5CGD8
2"	1½"-11½	210 psi	—	—	5CGG7	—
2"	2"-11½	250 psi	—	3LX33	3LX32	5CGE6
2"	2"-11½	250 psi	—	—	4YGD2	—
2½"	2"-11½	150 psi	—	—	5CGG8	—
2½"	2½"-8	150 psi	—	55MW09	55MV48	55MG54
3"	2"-11½	125 psi	—	—	26W628	—
3"	3"-8	125 psi	—	3LX49	3LX48	5CGF4
3"	3"-8	250 psi	—	—	4YKW2	—
4"	3"-8	100 psi	—	—	26W629	—
4"	3"-8	120 psi	—	—	5CGG9	—
4"	4"-8	100 psi	—	55MW10	3LX65	5CGG2
4"	4"-8	250 psi	—	—	4YKW3	—
5"	5"-8	75 psi	—	55MW11	55MV49	55MH24
6"	6"-8	75 psi	—	55MH89	55MG29	—
6"	6"-8	75 psi	—	55MW12	55MV50	—
No Locking Arm						
½"	½"-14	150 psi	743P40	—	—	—
¾"	¾"-14	150 psi	743P41	—	—	—
1"	1"-11½	250 psi	743P42	—	—	—
1¼"	1¼"-11½	250 psi	55EF49	—	—	—
1½"	1"-11½	250 psi	—	55MF92	55MF91	—
1½"	1½"-11½	250 psi	743P43	—	—	—
2"	1½"-11½	250 psi	—	55MF98	55MF97	—
2"	2"-11½	250 psi	743P44	—	—	—
2½"	2½"-8	225 psi	55EF50	—	—	—
3"	2"-11½	125 psi	—	55MG07	—	—
3"	3"-8	200 psi	743P45	—	—	—
4"	3"-8	100 psi	—	55MG13	—	—
4"	4"-8	100 psi	743P46	—	—	—
5"	5"-8	75 psi	55EF51	—	—	—
6"	6"-8	75 psi	55EF52	—	—	—
Type F						
Includes Locking Arm						
2"	1½"-11½	250 psi	—	—	26W632	—
3"	2"-11½	125 psi	—	—	26W633	—
3"	4"-8	100 psi	—	—	26W634	—
4"	3"-8	100 psi	—	—	26W635	—
No Locking Arm						
½"	½"-14	150 psi	743P54	55MV82	55MV22	55MH55
¾"	¾"-14	150 psi	743P55	—	—	—
¾"	¾"-14	250 psi	—	55MV83	55MV23	55MH77
1"	1"-11½	250 psi	743P56	3LX08	3LX07	5CGD4
1¼"	1¼"-11½	250 psi	55EF57	—	—	55MG84
1¼"	1¼"-11-1/2	250 psi	—	55MV84	55MV24	—
1½"	1½"-11½	250 psi	743P57	3LX24	3LX23	5CGE2
2"	1½"-11½	250 psi	—	55MG01	—	—
2"	1½"-11-1/2	250 psi	—	—	55MV25	—
2"	2"-11½	250 psi	743P58	3LX41	3LX40	5CGF0
2½"	2½"-8	150 psi	—	55MV85	55MV26	55MH10
2½"	2½"-8	225 psi	55EF58	—	—	—
3"	2"-11½	125 psi	—	55MG08	—	—
3"	3"-8	125 psi	—	3LX57	3LX56	5CGF8
3"	3"-8	200 psi	743P59	—	—	—
4"	3"-8	100 psi	—	55MG14	55MV27	—
4"	4"-8	100 psi	743P60	55MV86	3LX73	5CGG6
5"	5"-8	75 psi	55EF59	55MV87	55MV28	55MH32
6"	6"-8	75 psi	55EF60	55MV88	55MV29	—

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type AA			
Includes Locking Arm			
1½"	250 psi	—	26W655
1½" x 2"	250 psi	—	26W656
2" x 4"	100 psi	—	26W659
2" x 3"	125 psi	26W667	26W658
2"	250 psi	26W666	26W657
3" x 4"	100 psi	—	26W661
3"	125 psi	26W668	26W660
4" x 5"	75 psi	—	26W663
4" x 6"	75 psi	—	26W664
4"	100 psi	—	26W662
6"	75 psi	—	26W665
No Locking Arm			
1½"	250 psi	55MF84	—
1½"	250 psi	55MG85	—
2"	250 psi	55MG89	—
6"	75 psi	55MG15	—
Type AL			
Includes Locking Arm			
2"	250 psi	26W680	26W677
3"	125 psi	26W681	26W678
4"	100 psi	26W682	26W679
No Locking Arm			
1"	250 psi	55MF82	—
1½"	250 psi	55MF85	—
6"	75 psi	—	55MH57

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type DA			
Includes Locking Arm			
1½" Socket x 1" Plug	250 psi	—	26W640
2" Socket x 3" Plug	125 psi	26W652	26W641
2" Socket x 4" Plug	100 psi	—	26W642
3" Socket x 2" Plug	100 psi	—	55MG31
3" Socket x 2" Plug	125 psi	26W653	26W643
3" Socket x 4" Plug	100 psi	—	26W644
4" Socket x 2" Plug	100 psi	—	26W645
4" Socket x 3" Plug	100 psi	26W654	26W646
4" Socket x 5" Plug	75 psi	—	26W647
4" Socket x 6" Plug	75 psi	—	26W648
5" Socket x 4" Plug	75 psi	—	26W649
6" Socket x 4" Plug	75 psi	—	26W651
No Locking Arm			
1½" Socket x 2" Plug	250 psi	55MF94	—
2" Socket x 2½" Plug	250 psi	—	55MG02

CONTINUED

CONTINUED

Metal Cam and Groove Fittings

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type DC			
Includes Locking Arm			
½"	150 psi	55MW13	55MV51
¾"	250 psi	55MW14	55MV52
1¼"	250 psi	55MW15	55MV53
2½"	150 psi	55MW16	55MV54
4"	100 psi	55MW17	—
5"	75 psi	55MW18	55MV55
6"	75 psi	55MW19	55MV56
Type DD			
Includes Locking Arm			
2" x 3"	125 psi	26W675	26W670
2"	250 psi	26W674	26W669
3" x 4"	100 psi	—	26W672
3"	125 psi	26W676	26W671
4"	100 psi	—	26W673
No Locking Arm			
1½"	250 psi	55MF86	—

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type DL			
Includes Locking Arm			
2"	250 psi	26W686	26W683
3"	125 psi	26W687	26W684
4"	100 psi	26W688	26W685
No Locking Arm			
1"	250 psi	55MF83	—
1½"	250 psi	55MF87	—
6"	75 psi	55MG16	—
Type DP			
No Locking Arm			
½"	150 psi	55MV66	55MV07
¾"	250 psi	55MV67	55MV08
1¼"	250 psi	55MV68	55MV09
2½"	150 psi	55MV69	55MV10
4"	100 psi	55MV70	—
5"	75 psi	55MV71	55MV11
6"	75 psi	55MV72	55MV12

Coupling Size	Hose Fitting Size	Max. Working Pressure @ 70°F	304 Stainless Steel Item No.	316 Stainless Steel Item No.	Aluminum Item No.	Forged Brass Item No.
Type C						
Includes Locking Arm						
½"	½"	150 psi	—	55MV96	55MV36	55MH40
¾"	¾"	250 psi	—	55MV97	55MV37	—
1"	1"	250 psi	—	3LW97	3LW96	5CGC9
1"	1"	250 psi	—	—	55MG21	—
1¼"	1¼"	250 psi	—	55MV98	55MV38	55MG47
1½"	1½"	250 psi	—	3LX14	3LX13	5CGD7
1½"	1½"	250 psi	—	—	4YGC5	—
2"	1½"	250 psi	—	—	55MV39	—
2"	2"	250 psi	—	3LX31	3LX30	5CGE5
2½"	2½"	150 psi	—	55MV99	55MV40	55MG96
3"	2"	125 psi	—	55MW01	55MV41	—
3"	3"	125 psi	—	3LX47	3LX46	5CGF3
3"	3"	250 psi	—	—	4YGC7	—
4"	3"	100 psi	—	55MW02	55MV42	—
4"	4"	100 psi	—	55MW03	3LX63	5CGG1
4"	4"	250 psi	—	—	4YGC8	—
5"	5"	75 psi	—	55MW04	55MV43	55MH22
6"	6"	75 psi	—	55MW05	55MV44	—
No Locking Arm						
½"	½"	150 psi	743P33	—	—	—
¾"	¾"	150 psi	743P34	—	—	—
1"	1"	250 psi	743P35	—	—	—
1¼"	1¼"	250 psi	55EF45	—	—	—
1½"	1"	250 psi	—	55MF90	—	—
1½"	1½"	250 psi	743P36	—	—	—
2"	2"	250 psi	743P37	—	—	—
2½"	2½"	225 psi	55EF46	—	—	—
3"	2½"	125 psi	—	55MG09	—	—
3"	3"	200 psi	743P38	—	—	—
3"	4"	100 psi	—	—	55MG10	—
4"	3"	100 psi	—	55MG12	—	—
4"	4"	100 psi	743P39	—	—	—
5"	5"	75 psi	55EF47	—	—	—
6"	6"	75 psi	55EF48	—	—	—
Type E						
No Locking Arm						
½"	½"	150 psi	743P47	55MV73	55MV13	55MH52
¾"	¾"	150 psi	743P48	—	—	—
¾"	¾"	250 psi	—	55MV74	55MV14	55MH75
1"	1"	250 psi	743P49	3LX06	3LX05	5CGD3
1¼"	1¼"	250 psi	55EF53	55MV75	55MV15	55MG81
1½"	1"	250 psi	—	55MF93	—	—
1½"	1½"	250 psi	743P50	3LX22	3LX21	5CGE1
2"	1½"	250 psi	—	55MF99	55MV16	—
2"	2"	250 psi	743P51	3LX39	3LX38	5CGE9
2½"	2½"	150 psi	—	55MV76	55MV17	55MH07
2½"	2½"	225 psi	55EF54	—	—	—
3"	2"	125 psi	—	55MV77	55MV18	—
3"	3"	125 psi	—	3LX55	3LX54	5CGF7
3"	3"	200 psi	743P52	—	—	—
4"	3"	100 psi	—	55MV78	55MV19	—
4"	3"	125 psi	—	—	55MH16	—
4"	4"	100 psi	743P53	55MV79	3LX71	5CGG5
5"	5"	75 psi	55EF55	55MV80	55MV20	55MH30
6"	6"	75 psi	55EF56	55MV81	55MV21	—

Coupling Size	316 Stainless Steel Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Max. Working Pressure @ 70°F	Aluminum Item No.
Type DC, Dust Cap				
Includes Locking Arm				
1"	250 psi	3LX02	250 psi	3LX01
1½"	250 psi	3LX18	250 psi	3LX17
2"	250 psi	3LX35	250 psi	3LX34
3"	125 psi	3LX51	125 psi	3LX50
3"	—	—	250 psi	4YKW7
4"	—	—	100 psi	3LX67
4"	—	—	250 psi	4YKW8
Type DP, Dust Plug				
No Locking Arm				
1"	250 psi	3LX04	250 psi	3LX03
1½"	250 psi	3LX20	250 psi	3LX19
2"	250 psi	3LX37	250 psi	3LX36
3"	125 psi	3LX53	125 psi	3LX52
4"	—	—	100 psi	3LX69

BANJO CORPORATION ★GA GRAINGER APPROVED

Cam and Groove Gaskets

Flat cam and groove gaskets fit in the grooves of the female camlock or cam and groove couplings. The pressure of the fitting pushes against the gasket to create a tight seal.

For Coupling Size	Outside Diameter	Thickness	Color Code Stripe	Brand	Item No.	Pkg. Qty.
EPDM, Black						
¾"	⅞"	0.2"	1 White	Banjo	1MJV4	1
1",-1-1/4"	1 3/16"	0.3"	1 White	Banjo	1DPK5	1
1½"	2 3/16"	0.3"	1 White	Banjo	1DPN2	1
2"	2⅝"	0.3"	1 White	Banjo	1MJR8	1
3"	3 23/32"	0.3"	1 White	Banjo	1MJT8	1
FKM, Green						
¾"	1⅜"	0.22"	None	GA	41H424	1
1"	1 9/16"	0.25"	None	GA	41H425	1
1½"	2 3/16"	0.25"	None	GA	41H426	1
2"	2⅝"	0.25"	None	GA	41H427	1
3"	3¾"	0.25"	None	GA	41H428	1
4"	4⅞"	0.25"	None	GA	41H429	1
Food-Grade Nitrile, White						
1"	1 9/16"	0.25"	None	GA	41H430	1
1½"	2 3/16"	0.25"	None	GA	41H431	1
2"	2⅝"	0.25"	None	GA	41H432	1
3"	3¾"	0.25"	None	GA	41H433	1
4"	4⅞"	0.25"	None	GA	41H434	1
Nitrile, Black						
¾"	1⅜"	0.22"	1 Blue	GA	41H418	10
1"	1 9/16"	0.25"	1 Blue	GA	41H419	10
1½"	2 3/16"	0.25"	1 Blue	GA	41H420	10
2"	2⅝"	0.25"	1 Blue	GA	41H421	10
3"	3¾"	0.25"	1 Blue	GA	41H422	10
4"	4⅞"	0.25"	1 Blue	GA	41H423	10


No. 1DPK5


No. 41H424


No. 41H430


No. 41H418


No. 6AKC0


No. 15Z087


No. 3LX25


No. 6ANV0

★GA GRAINGER APPROVED

ELKHART BRASS Fire Fighting Equipment

MOON American, Inc.

DIXON The Right Connection


No. 6CLV4

Hydrant Wrenches

For use in lawn care, in-plant maintenance, and municipal hydrant applications.

No. 15Z087 can be used as a spanner on pin lug couplings or rocker lug couplings.

No. 3LX25 is a spanner for pin lug and rocker (sensible) leg couplings.

No. 20JP20 has spanner for pin or rocker lug couplings.

No. 15Z086 can be used as a spanner on pin lug couplings.

No. 15Z088 can be used as a spanner on Storz couplings or rocker lug couplings.

No. 6CLV4 is compatible with pin or rocker lug couplings. 5 pentagonal holes fit most hydrant nut sizes.

Item	Fits	L	Head Material	Handle Material	Brand	Item No.
Adjustable Hydrant Wrench	1½ in to 3 in Nut	16 9/16 in	Iron	Iron	GA	6AKC0
	2½ in Pin Lug Couplings, 2½ to 5 in Rocker Lug Couplings, Up to 1¾ in Pentagon Nut, 1½ in Square Nut	16 13/16 in	Cast Manganese Bronze	Stainless Steel	Elkhart Brass	15Z087
	¾ to 6 in Nuts and Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	19 in	Painted Steel	Plated Steel	Moon American	6ANU9
	All Sizes of Pentagon or Square Hydrant nuts. Spanner Hook Fits Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	18 in	Steel	Iron	Moon American	3LX25
	Less than 1¾ in Pentagon Nut	17 45/64 in	Plated Steel	Plated Steel	Moon American	20JP20
	Up to 1¾ in Pentagon Nut, 1½ in Square Nut	18 in	Cast Manganese Bronze	Stainless Steel	Elkhart Brass	15Z086
Adjustable Storz Hydrant Wrench	4 or 5 in Storz Couplings, 2½ to 5 in Rocker Lug Couplings, Up to 1¾ in Pentagon Nut, 1½ in Square Nut	17 5/16 in	Cast Manganese Bronze	Stainless Steel	Elkhart Brass	15Z088
	All Sizes of Square and Pentagon Hydrant Nuts, Storz Hook Fits 4, 5 and 6 in Pin and Rocker Lug Fittings, Spanner Hook Fits Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	18 in	Painted Steel	Plated Steel	Moon American	6ANV0
Five Hole Hydrant Wrench	All Common Hydrant Nuts	14 ¼ in	Plated Iron	Plated Iron	Dixon	6CLV4
Pigtail Adjustable Hydrant Wrench	Less Than1½ in Nut, 1½ to 6 in Rocker Lugs, 2 to 4½ in Pin Lug, 1⅛ in Square Nuts	16 ¼ in	Plated Iron	Plated Steel	Dixon	6CLV2

Black and Galvanized Malleable Iron Pipe Fittings—Class 150

GA GRAINGER APPROVED

ANVIL INTERNATIONAL Building Connections That Last

- For max. pressure see Pressure-Temperature Ratings table, except ¾" to 4" Anvil square head plugs
- Anvil domestic fittings are made in the U.S.
- Anvil Floor Flanges: not rated for pressure service

Black fittings are interchangeable with black cast-iron or steel. For low-pressure plumbing applications including air, water, natural gas, and steam.

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

GA Models – Black and Galvanized—Galvanized fittings resist rust and corrosion.

Anvil Domestic – Black and Galvanized—Fittings are suitable for low-pressure plumbing applications including air, water, natural gas, and steam. Galvanized fittings can resist corrosion and rust.

Merchant Couplings—Steel couplings for use with Schedule 40 pipe.

Anvil Square Head Plugs—Cast-iron or steel for use with Schedule 40 pipe. Max. pressure: 125 psi at 350°F.

PRESSURE-TEMPERATURE RATINGS	
Temp. °F	Working Pressure PSI
-20 to 150	300
200	265
250	225
300	185
350	150













Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Cap, FNPT				
⅛"	5P531	5P898	4WJU4	25CH04
¼"	5P532	5P899	4WJU5	25CH05
⅜"	5P533	5P900	4WJU6	25CH06
½"	5P534	5P901	4WJU7	25CG45
¾"	5P535	5P902	4WJU8	25CG46
1"	5P536	5P903	4WJU9	25CG47
1¼"	5P537	5P904	4WJV1	25CG48
1½"	5P538	5P905	4WJV2	25CG49
2"	5P539	5P906	4WJV3	25CG50
2½"	2WU79	2WJ67	4WJV4	25CG51
3"	2WU80	2WJ68	4WJV5	25CG52
3½"	—	—	4WJV6	25CG53
4"	2WU81	2WJ69	4WJV7	25CG54
5"	—	—	—	25CG55
6"	—	—	—	25CG56
Coupling, FNPT				
⅛"	5P549	5P916	4WHX3	—
¼"	5P550	5P917	4WHX4	25CF78
⅜"	5P551	5P918	4WHX5	25CF79
½"	5P552	5P919	4WHX6	25CF80
¾"	5P553	5P920	4WHX7	25CF81
1"	5P554	5P921	4WHX8	25CF82
1¼"	5P555	5P922	4WHX9	25CF83
1½"	5P556	5P923	4WHY1	25CF84
2"	5P557	5P924	4WHY2	25CF85
2½"	2WU59	2WJ44	4WHY3	25CF86
3"	2WU60	2WJ45	4WHY4	25CF87
4"	2WU61	2WJ46	4WHY5	25CF88
Cross, FNPT				
⅛"	—	—	4WHV3	29JD32
¼"	—	—	4WHV4	29JD33
⅜"	—	—	4WHV5	29JD34
½"	6KJ34	5P985	4WHV6	29JD35
¾"	6KJ35	5P986	4WHV7	29JD36
1"	6KJ36	6KJ40	4WHV8	29JD37
1¼"	6KJ37	6KJ41	4WHV9	29JD38
1½"	6KJ38	6KJ42	4WHW1	29JD39
2"	6KJ39	6KJ43	4WHW2	29JD40
2½"	2WU56	2WJ41	4WHW3	29JD41
Elbow, 45 Degrees, FNPT				
⅛"	5P466	5P830	4WGX2	25CF31
¼"	5P467	5P831	4WGX3	25CF32
⅜"	5P468	5P832	4WGX4	25CF33
½"	5P469	5P833	4WGX5	25CF34
¾"	5P470	5P834	4WGX6	25CF35
1"	5P471	5P835	4WGX7	25CF36
1¼"	5P472	5P836	4WGX8	25CF37
1½"	5P473	5P837	4WGX9	25CF38
2"	5P474	5P838	4WGY1	25CF39
2½"	2WU24	—	4WGY2	25CF40
3"	2WU25	2WJ11	4WGY3	25CF41
4"	2WU26	2WJ12	4WGY4	25CF42
Elbow, 90 Degrees, FNPT				
⅛"	6P932	5P795	4WGN6	25CE95
¼"	5P434	5P796	4WGN7	25CE96
⅜"	5P435	5P797	4WGN8	25CE97
½"	5P436	5P798	4WGN9	25CE98
¾"	5P437	5P799	4WGP1	25CE99
1"	5P438	5P800	4WGP2	25CF01
1¼"	5P439	5P801	4WGP3	25CF02
1½"	5P440	5P802	4WGP4	25CF03
2"	5P441	5P803	4WGP5	25CF04
2½"	2WJ97	2WE84	4WGP6	25CF05
3"	2WJ98	2WE85	4WGP7	25CF06
3½"	—	—	4WGP8	25CF07
4"	2WJ99	2WE82	4WGP9	25CF08
5"	—	—	—	25CF09
6"	—	—	—	25CF10
Extension, FNPT				
½"	—	—	—	25CG35
¾"	—	—	—	25CG36
1"	—	—	—	25CG37







Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Face Bushing, FNPT x MNPT				
1" x ¾"	—	—	—	25CG75
1¼" x 1"	—	—	—	25CG77
2" x 1½"	—	—	—	25CG79
Floor Flange, Flanged x FNPT				
¼"	5P597	5P965	4WJG3	—
⅜"	5P598	5P966	—	—
½"	5P599	5P967	4WJG5	25CG39
¾"	5P600	5P968	4WJG6	25CG40
1"	5P601	5P969	4WJG7	25CG41
1¼"	5P602	5P970	4WJG8	25CG42
1½"	5P603	5P971	4WJG9	25CG43
2"	5P604	5P972	4WJH1	25CG44
3"	2WU82	2WJ70	—	—
Hex Bushing, FNPT x MNPT				
¼" x ⅛"	5P507	5P874	4WJJ6	—
⅜" x ⅛"	5P508	5P875	4WJJ7	—
⅜" x ¼"	5P509	5P876	4WJJ8	—
½" x ⅛"	5P510	5P877	4WJJ9	—
½" x ¼"	5P511	5P878	—	—
½" x ¼"	—	—	4WJK1	—
½" x ⅜"	5P512	5P879	4WJK2	—
¾" x ⅛"	—	—	4WJK3	25CG60
¾" x ¼"	5P513	5P880	4WJK4	25CG59
¾" x ⅜"	5P514	5P881	4WJK5	25CG58
¾" x ½"	5P515	—	—	—
¾" x ½"	—	5P882	4WJK6	25CG57
1" x ⅛"	34DC82	34DC85	4WJL2	25CG65
1" x ¼"	34DC83	34DC86	4WJL1	25CG64
1" x ⅜"	5P516	5P883	4WJK7	25CG63
1" x ½"	5P517	5P884	4WJK8	25CG62
1" x ¾"	5P518	—	—	—
1" x ¾"	—	5P885	4WJK9	25CG61
1¼" x ¼"	34DC84	—	4WJL4	25CG70
1¼" x ⅜"	—	—	4WJL3	25CG69
1¼" x ½"	5P519	5P886	4WJL5	25CG68
1¼" x ¾"	5P520	5P887	4WJL6	25CG67
1¼" x 1"	5P521	5P888	4WJL8	25CG66
1½" x ½"	5P522	5P889	—	29JD61
1½" x ¾"	5P523	5P890	—	29JD60
1½" x 1"	5P524	5P891	—	29JD59
1½" x 1¼"	5P525	5P892	4WJL7	25CG71
2" x ½"	5P526	—	—	29JD65
2" x ½"	5P893	—	—	—
2" x ¾"	5P527	5P894	—	29JD64
2" x 1"	5P528	5P895	—	29JD63
2" x 1¼"	5P529	—	—	29JD62
2" x 1½"	5P530	5P897	4WJL9	—
2" x 1½"	—	—	—	25CG72
2½" x ½"	—	2WJ91	4WJN1	—
2½" x ¾"	—	2WJ92	4WJN2	—
2½" x 1"	2WV15	—	4WJN3	—
2½" x 1¼"	2WV16	—	4WJN4	—
2½" x 1½"	2WV17	—	4WJN5	—
2½" x 2"	2WV18	2WJ96	4WJN6	25CG73
3" x ¾"	—	—	4WJN8	—
3" x 1"	2WU92	2WJ80	4WJN9	—
3" x 1¼"	2WU93	2WJ81	4WJP1	—
3" x 1½"	2WU94	2WJ82	4WJP2	—
3" x 2"	2WU95	2WJ83	4WJP3	—
3" x 2½"	2WU96	2WJ84	4WJP4	—
3½" x 1¼"	—	—	4WJP6	—
3½" x 2"	—	—	4WJP8	—
3½" x 2½"	—	—	4WJP9	—
3½" x 3"	—	—	4WJR1	—
4" x ¾"	—	2WJ85	—	—
4" x 1"	—	—	4WJR2	—
4" x 1½"	—	2WJ88	4WJR4	—
4" x 2"	2WV11	—	—	—
4" x 2"	—	2WJ89	4WJR5	—
4" x 2½"	2WV12	2WJ90	4WJR6	—
4" x 3"	2WU89	—	—	—
4" x 3"	—	2WJ77	4WJR7	—
4" x 3½"	—	—	4WJR8	—

CONTINUED

CONTINUED

GA GRAINGER APPROVED

ANVIL INTERNATIONAL Building Connections That Last

Black and Galvanized Malleable Iron Pipe Fittings—Class 150



Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Hex Locknut, FNPT				
¼"	—	5P977	4WJV9	25CG83
⅜"	6KJ23	5P978	4WJW1	25CG84
½"	6KJ24	5P979	4WJW2	25CG85
¾"	6KJ25	5P980	4WJW3	25CG86
1"	6KJ26	5P981	4KUH7	25CG87
1¼"	—	5P982	4KUH8	25CG88
1½"	6KJ28	5P983	4KUH9	25CG89
2"	6KJ29	5P984	4KUJ1	25CG90
2½"	—	—	4KUJ2	—
3"	—	—	4KUJ3	—
4"	—	—	4KUJ4	—
Merchant Coupling, FNPT				
⅛"	—	2KME5	4WJE4	—
¼"	2KMD6	—	4WJE5	—
⅜"	—	—	4WJE6	—
½"	—	—	4WJE7	—
¾"	—	—	4WJE8	—
1"	2KME1	—	4WJE9	—
1¼"	—	—	4WJF1	—
1½"	—	—	4WJF2	—
2"	—	—	4WJF3	—
2½"	4HVG7	2KMF5	4WJF4	—
3"	4HVG8	2KMF6	4WJF5	—
3½"	—	—	4WJF6	—
4"	4HVG9	2KMF7	4WJF7	—
Merchant Coupling, NPSC				
⅛"	2KMD5	—	—	—
¼"	—	2KME6	—	—
⅜"	2KMD7	2KME7	—	—
½"	2KMD8	2KME8	—	—
¾"	2KMD9	2KME9	—	—
1"	—	2KMF1	—	—
1¼"	2KME2	2KMF2	—	—
1½"	2KME3	2KMF3	—	—
2"	2KME4	2KMF4	—	—
Reducer Coupling, FNPT				
¼" x ⅛"	5P558	5P925	4WHY6	25CF89
⅜" x ⅛"	34DC63	34DC69	4WHY8	25CF91
⅜" x ¼"	5P559	5P926	4WHY7	25CF90
½" x ⅛"	5P563	5P930	4WHZ2	25CF94
½" x ¼"	5P562	5P929	4WHZ1	25CF93
½" x ⅜"	5P561	5P928	4WHY9	25CF92
¾" x ⅛"	34DC64	34DC70	4WHZ6	25CF98
¾" x ¼"	5P566	5P933	4WHZ5	25CF97
¾" x ⅜"	5P565	5P932	4WHZ4	25CF96
¾" x ½"	5P564	5P931	4WHZ3	25CF95
1" x ¼"	34DC65	34DC71	4WJA1	25CG03
1" x ⅜"	34DC66	34DC72	4WHZ9	25CG02
1" x ½"	5P568	5P935	4WHZ8	25CG01
1" x ¾"	5P567	5P934	4WHZ7	25CF99
1¼" x ½"	5P571	5P938	4WJA4	25CG06
1¼" x ¾"	5P570	5P937	4WJA3	25CG05
1¼" x 1"	5P569	5P936	4WJA2	25CG04
1½" x ½"	5P575	5P942	4WJA8	25CG10
1½" x ¾"	5P574	5P941	4WJA7	25CG09
1½" x 1"	5P573	5P940	4WJA6	25CG08
1½" x 1¼"	5P572	5P939	4WJA5	25CG07
2" x ½"	34DC67	34DC73	4WJC4	25CG15
2" x ¾"	34DC68	34DC74	4WJC3	25CG14
2" x 1"	5P578	5P945	4WJC2	25CG13
2" x 1¼"	5P577	5P944	4WJC1	25CG12
2" x 1½"	5P576	5P943	4WJA9	25CG11
2½" x 1"	2WU75	—	4WJC8	25CG19
2½" x 1¼"	2WU76	2WJ64	4WJC7	25CG18
2½" x 1½"	2WU77	—	4WJC6	25CG17
2½" x 2"	2WU78	2WJ66	4WJC5	25CG16
3" x 1"	2WU64	—	4WJD4	25CG24
3" x 1½"	2WU66	2WJ54	4WJD2	25CG22
3" x 2"	2WU67	2WJ55	4WJD1	25CG21
3" x 2½"	2WU68	2WJ56	4WJC9	25CG20
3½" x 2"	—	—	4WJD7	25CG27
4" x 1"	2WU69	—	—	—
4" x 1½"	—	2WJ59	4WJE3	25CG32
4" x 2"	2WU72	2WJ60	4WJE2	25CG31
4" x 2½"	2WU73	—	4WJE1	25CG30
4" x 3"	2WU62	2WJ50	4WJD9	25CG29
4" x 3½"	—	—	4WJD8	—
5" x 4"	—	—	—	25CG33
6" x 4"	—	—	—	25CG34







Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Reducing Elbow, 90°, FNPT				
¼" x ⅛"	34DC75	—	4WGR1	—
⅜" x ¼"	—	5P804	4WGR2	29JA86
½" x ¼"	5P444	—	4WGR5	29JA89
½" x ⅜"	—	—	4WGR4	29JA88
¾" x ¼"	—	—	4WGR8	29JA92
¾" x ½"	5P445	—	4WGR6	29JA90
1" x ½"	—	—	4WGT1	29JA94
1" x ¾"	5P447	5P809	4WGR9	29JA93
1¼" x ½"	34DC77	—	4WGT5	29JA98
1¼" x ¾"	5P450	5P812	4WGT4	29JA97
1¼" x 1"	5P449	—	4WGT3	29JA96
1½" x ¼"	—	—	—	29JA99
1½" x ¾"	5P453	—	4WGT8	29JC02
1½" x 1"	5P452	—	4WGT7	29JC01
1½" x 1¼"	5P451	—	4WGT6	—
2" x ¾"	34DC78	—	4WGU3	29JC06
2" x 1"	—	—	4WGU2	29JC05
2" x 1¼"	—	—	4WGU1	29JC04
2" x 1½"	5P454	5P816	4WGT9	29JC03
2½" x 1½"	—	—	4WGU4	29JC08
2½" x 2"	—	2WE99	4WGU5	29JC07
3" x 2½"	—	—	4WGU7	—
4" x 3"	—	—	4WGU8	29JC11
Reducing Street Elbow, 90 Degrees, FNPT x MNPT				
½" x ⅜"	—	—	4WGW3	—
¾" x ½"	—	—	4WGW4	—
1" x ¾"	—	—	4WGW5	—
1¼" x 1"	—	—	4WGW6	—
1½" x 1"	—	—	4WGW9	—
1½" x 1¼"	—	—	4WGW8	—
2" x 1½"	—	—	4WGX1	—
Reducing Tee (run x run x outlet), FNPT				
⅜" x ⅜" x ¼"	—	—	4WHC2	29JC14
⅜" x ⅜" x ½"	—	—	4WHD2	29JC23
½" x ½" x ¼"	5P485	—	4WHC7	29JC19
¾" x ¼" x ¾"	—	—	4WHE1	29JC30
¾" x ½" x ¾"	5P489	—	4WHD6	29JC27
¾" x ¾" x ¼"	5P488	—	4WHD5	29JC26
¾" x ¾" x ⅜"	5P487	—	4WHD4	29JC25
¾" x ¾" x ½"	5P486	5P852	4WHD3	29JC24
¾" x ¾" x 1"	—	—	4WHF5	29JC43
1" x ¼" x 1"	34DC87	—	4WHF4	29JC42
1" x ½" x 1"	—	—	4WHF1	—
1" x ¾" x ¾"	5P495	5P861	4WHE8	29JC37
1" x 1" x ¼"	—	—	4WHE6	29JC35
1" x 1" x ⅜"	—	—	—	29JC34
1" x 1" x ½"	5P493	5P859	4WHE4	29JC33
1" x 1" x ¾"	5P492	—	4WHE3	29JC32
1" x 1" x 2"	—	—	—	29JC94
1¼" x ¾" x 1¼"	34DC90	34DD03	4WHG6	29JC53
1¼" x 1¼" x ⅜"	—	—	—	29JC48
1¼" x 1¼" x ½"	5P501	—	4WHF9	29JC47
1¼" x 1¼" x ¾"	5P500	—	4WHF8	29JC46
1¼" x 1¼" x 1"	5P499	—	4WHF7	29JC45
1½" x ½" x 1½"	—	—	—	29JC74
1½" x ¾" x 1½"	—	—	4WHJ7	29JC72
1½" x 1" x 1"	34DC92	34DD05	4WHJ6	29JC71
1½" x 1½" x ½"	34DD08	34DD06	4WHH7	29JC63
1½" x 1½" x ¾"	34DC93	34DD07	4WHH6	29JC62
1½" x 1½" x 1"	5P504	5P870	4WHH5	29JC61
1½" x 1½" x 1¼"	—	—	4WHH4	29JC60
2" x ½" x 2"	34DC94	34DD09	4WHL8	29JC91
2" x ¾" x 2"	34DC95	34DD10	4WHL7	29JC90
2" x 1" x 2"	34DC96	34DD11	4WHL6	29JC89
2" x 1¼" x 1¼"	34DC97	34DD12	4WHL5	29JC88
2" x 2" x ½"	34DC98	34DD13	4WHK7	29JC81
2" x 2" x ¾"	34DC99	34DD14	4WHK6	29JC80
2" x 2" x 1"	34DD01	34DD15	4WHK5	29JC79
2" x 2" x 1½"	5P505	—	4WHK3	29JC77
2½" x 2½" x ¾"	2WU51	2WJ36	4WHN7	29JC99
3" x 2" x 3"	—	—	—	29JD14
3" x 3" x ¾"	—	—	4WHP9	29JD11
3" x 3" x 2"	—	—	4WHP5	29JD07
4" x 4" x 2"	—	—	4WHR8	29JD19
4" x 4" x 3"	—	—	4WHR6	29JD17

CONTINUED

CONTINUED

Black and Galvanized Malleable Iron Pipe Fittings—Class 150

GA GRAINGER APPROVED

ANVIL INTERNATIONAL Building Connections That Last







Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Square Head Plug, MNPT				
⅛"	5P540	5P907	4WJH2	25CH07
¼"	5P541	5P908	4WJH3	25CH08
⅜"	—	5P909	4WJH4	25CH09
½"	—	5P910	4WJH5	25CH10
¾"	5P544	5P911	4WJH6	25CH11
1"	5P545	5P912	4WJH7	29JD55
1¼"	5P546	5P913	4WJH8	29JD56
1½"	5P547	5P914	4WJH9	29JD57
2"	—	5P915	4WJJ1	29JD58
2½"	2WU86	2WJ74	4WJJ2	25CH12
3"	2WU87	2WJ75	4WJJ3	25CH13
3½"	—	—	4WJJ4	25CH14
4"	2WU88	2WJ76	4WJJ5	25CH15
Street Elbow, 45 Degrees, FNPT x MNPT				
⅛"	34DC52	34DC57	4WGY5	25CF45
¼"	34DC53	34DC58	4WGY6	25CF46
⅜"	34DC54	34DC59	4WGY7	25CF47
½"	6KH97	5P839	4WGY8	25CF48
¾"	6KH98	5P840	4WGY9	25CF49
1"	6KH99	6KJ06	4WGZ1	25CF50
1¼"	34DC55	34DC60	4WGZ2	25CF51
1½"	34DC56	34DC61	4WGZ3	25CF52
2"	2WU32	34DC62	4WGZ4	25CF53
3"	2WU34	2WJ18	—	—
4"	—	2WJ19	—	—
Street Elbow, 90 Degrees, FNPT x MNPT				
⅛"	5P457	5P819	4WGU9	25CF11
¼"	5P458	5P820	4WGV1	25CF12
⅜"	5P459	5P821	4WGV2	25CF13
½"	5P460	5P822	4WGV3	25CF14
½" x ⅜"	—	—	—	25CF23
¾"	5P461	5P823	4WGV4	25CF15
¾" x ½"	—	—	—	25CF24
1"	5P462	5P824	4WGV5	25CF16
1" x ¾"	—	—	—	25CF25
1¼"	5P463	5P825	4WGV6	25CF17
1¼" x 1"	—	—	—	25CF26
1½"	5P464	5P826	4WGV7	25CF18
2"	5P465	5P827	4WGV8	25CF19
2" x 1½"	—	—	—	25CF30
2½"	2WU27	—	4WGV9	25CF20
3"	2WU28	2WJ14	4WGW1	25CF21
4"	2WU29	2WJ15	4WGW2	25CF22











Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	Anvil Domestic - Black Item No.	Anvil Domestic - Galvanized Item No.
Street Tee, FNPT x FNPT x MNPT				
¼"	—	—	4WHT2	25CF69
⅜"	—	—	4WHT3	25CF70
½"	—	—	4WHT4	25CF71
¾"	—	—	4WHT5	25CF72
1"	—	—	4WHT6	25CF73
1¼"	—	—	4WHT7	25CF74
1½"	—	—	4WHT8	25CF75
2"	—	—	4WHT9	25CF76
Tee, FNPT				
⅛"	5P475	5P841	4WGZ5	25CF54
¼"	5P476	5P842	4WGZ6	25CF55
⅜"	5P477	5P843	4WGZ7	25CF56
½"	5P478	5P844	4WGZ8	25CF57
¾"	5P479	5P845	4WGZ9	25CF58
1"	5P480	5P846	4WHA1	25CF59
1¼"	5P481	5P847	4WHA2	25CF60
1½"	5P482	5P848	4WHA3	25CF61
2"	5P483	5P849	4WHA4	25CF62
2½"	2WU36	2WJ20	4WHA5	25CF63
3"	2WU37	2WJ21	4WHA6	25CF64
3½"	—	—	4WHA7	25CF65
4"	2WU38	2WJ22	4WHA8	25CF66
Union, FNPT				
⅛"	5P588	5P955	4WJR9	25CG91
¼"	5P589	5P956	4WJT1	25CG92
⅜"	5P590	5P957	4WJT2	25CG93
½"	5P591	5P958	4WJT3	25CG94
¾"	5P592	5P959	4WJT4	25CG95
¾" x ½"	—	—	—	25CG96
1"	5P593	5P960	4WJT6	25CG97
1¼"	5P594	5P961	4WJT7	25CG98
1½"	5P595	5P962	4WJT8	25CG99
2"	5P596	5P963	4WJT9	25CH01
2½"	2WU83	2WJ71	4WJU1	25CH02
3"	2WU84	2WJ72	4WJU2	25CH03
4"	—	2WJ73	—	—
Waste Nut, FNPT				
¾"	—	—	—	25CG38
Wye, FNPT				
½"	—	—	4WHU3	—
¾"	—	—	4WHU4	—
1"	—	—	4WHU5	—
1¼"	—	—	4WHU6	—
1½"	—	—	4WHU7	—
2"	—	—	4WHU8	—
3"	—	—	4WHV1	—
4"	—	—	4WHV2	—



GA GRAINGER APPROVED

Black Steel Forged Flanges—Class 150

- Max. pressure: 150 psi at 72°F; 150 psi saturated steam

Bolt 2 flanges together with a gasket to form a tight seal that still allows easy access to the piping system. For use with air, water, oil, natural gas, or steam (except where noted). Meet ASTM A-197, ASTM A47, ASME B16.3 and B16.4, UL Listed, FM Approved.

BLIND

Sometimes referred to as "blanking flanges," and are commonly used to blank off pipelines, valves, and pumps, or as an inspection cover.

SLIP-ON

Flange slips over the pipe and is then fillet welded. Excellent for fabricated applications.

SOCKET WELD

Similar to slip-on flanges, but a lip supports the pipe while welding. Counter-bored to accept the pipe before being fillet welded. Flange and pipe bore are the same, to enhance flow characteristics.

THREADED

Use with standard wall (Schedule 40) pipes and nipples; no welding is required.

Pipe Size - Pipe Fitting	Blind Item No.	Slip-On Item No.	Socket Weld Item No.		Threaded Item No.
½"	—	—	—		4TXF1
1"	4TXD9	—	4TWY9		4TXF3
1¼"	—	—	—		4TXF4
1½"	4TXE2	4TWX8	4TWZ2		4TXF5
2"	—	4TWX9	4TWZ3		4TXF6
2½"	4TXE4	4TWY1	4TWZ4		4TXF7
3"	4TXE5	4TWY2	4TWZ5		4TXF8
4"	4TXE6	4TWY3	4TWZ6	*	4TXF9
5"	—	4TWY4	4TWZ7	*	—
6"	4TXE8	4TWY5	4TWZ8	*	4TXG2
8"	4TXE9	4TWY6	4TWZ9	*	4TXG3

** Not rated for steam.*

caplugs®

Flange Covers

- VF Series
- Flexible fit
- Yellow color for high visibility



These durable, easy-to-apply vinyl flange covers provide a snug fit for flanged and beaded tubes. They help to seal out moisture and dust during shipment, and help to protect flange surfaces.

Flange Cover Inside Dia.	Flange Cover Outside Dia.	Max. Side Thickness	Item No.	Pkg. Qty.
1.000 in	1.620 in	0.055 in	45FM21	300
1.500 in	2.195 in	0.055 in	45FM22	180
2.000 in	2.695 in	0.055 in	45FM23	120
2.500 in	3.180 in	0.055 in	45FM24	80
3.000 in	3.600 in	0.055 in	45FM25	80
3.500 in	4.155 in	0.055 in	45FM26	60
4.000 in	4.690 in	0.055 in	45FM27	50

Welded Steel Schedule 40 Pipe Nipples

★ GA GRAINGER APPROVED BECK

- Max. pressure in accordance with ASME B31.1 or B31.3 for SCH 40 pipe
- Domestic items are made in the U.S.

All nipples have a weld bead inside and are NPT threaded at both ends. Black nipples are interchangeable with black cast iron or steel. Galvanized nipples resist rust and corrosion. For low-pressure plumbing applications including air, water, oil, natural gas, and steam. Certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.



Close Thread Nipple



Nipple

Pipe Size (Nominal)	GA Black Pipe Weld Type*	GA Black Item No.	GA Galvanized Pipe Weld Type*	GA Galvanized Item No.	BECK-Domestic Black Pipe Weld Type*	BECK-Domestic Black Item No.	BECK-Domestic Galvanized Pipe Weld Type*	BECK-Domestic Galvanized Item No.
Close Thread								
⅛"	ERW	5P605	ERW	5P987	ERW	11X028	ERW	29VF43
¼"	ERW	5P619	ERW	6P756	CW	11X039	CW	29VF66
⅜"	ERW	5P633	ERW	6P770	CW	11X052	CW	29VF89
½"	ERW	5P650	ERW	6P787	CW	11X066	CW	29VG13
¾"	ERW	5P667	ERW	6P804	CW	11X084	CW	29VG37
1"	ERW	5P684	ERW	6P821	CW	11X099	CW	29VG60
1 ¼"	ERW	5P700	ERW	6P837	CW	11X122	CW	29VG82
1 ½"	ERW	5P716	ERW	6P853	CW	11X143	CW	29VH06
2 ½"	ERW	2WV63	ERW	2WV34	CW	11X179	CW	29VH50
2"	ERW	5P732	ERW	6P869	CW	11X161	CW	29VH28
3"	ERW	2WV71	ERW	2WV42	CW	11X193	CW	29VH70
4"	ERW	2WV79	ERW	2WV50	CW	12U007	CW	29VJ10
6"	—	—	—	—	ERW	12U018	ERW	29VJ29
1½" Length								
⅛"	ERW	5P606	ERW	5P988	ERW	11X029	ERW	29VF44
¼"	ERW	5P620	ERW	6P757	CW	11X040	CW	29VF67
⅜"	ERW	5P634	ERW	6P771	CW	11X053	CW	29VF90
½"	ERW	5P651	ERW	6P788	CW	11X067	CW	29VG14
¾"	ERW	5P668	ERW	6P805	CW	11X085	CW	29VG38
2" Length								
⅛"	ERW	5P607	ERW	5P989	ERW	11X030	ERW	29VF45
¼"	ERW	5P621	ERW	6P758	CW	11X041	CW	29VF68
⅜"	ERW	5P635	ERW	6P772	CW	11X054	CW	29VF91
½"	ERW	5P652	ERW	6P789	CW	11X068	CW	29VG15
¾"	ERW	5P669	ERW	6P806	CW	11X086	CW	29VG39
1"	ERW	5P685	ERW	6P822	CW	11X101	CW	29VG61
1 ¼"	ERW	5P701	ERW	6P838	CW	11X123	CW	29VG83
1 ½"	ERW	5P717	ERW	6P854	CW	11X144	CW	29VH07
2½" Length								
⅛"	ERW	5P608	ERW	5P990	ERW	11X031	ERW	29VF46
¼"	ERW	5P622	ERW	6P759	CW	11X042	CW	29VF69
⅜"	ERW	5P636	ERW	6P773	CW	11X055	CW	29VF92
½"	ERW	5P653	ERW	6P790	CW	11X069	CW	29VG16
¾"	ERW	5P670	ERW	6P807	CW	11X087	CW	29VG40
1"	ERW	5P686	ERW	6P823	CW	11X102	CW	29VG62
1 ¼"	ERW	5P702	ERW	6P839	CW	11X124	CW	29VG84
1 ½"	ERW	5P718	ERW	6P855	CW	11X145	CW	29VH08
2"	ERW	5P733	ERW	6P870	CW	11X162	CW	29VH29
3" Length								
⅛"	ERW	5P609	ERW	5P991	ERW	11X032	ERW	29VF47
¼"	ERW	5P623	ERW	6P760	CW	11X043	CW	29VF70
⅜"	ERW	5P637	ERW	6P774	CW	11X056	CW	29VF93
½"	ERW	5P654	ERW	6P791	CW	11X070	CW	29VG17
¾"	ERW	5P671	ERW	6P808	CW	11X088	CW	29VG41
1"	ERW	5P687	ERW	6P824	CW	11X103	CW	29VG63
1 ¼"	ERW	5P703	ERW	6P840	CW	11X125	CW	29VG85
1 ½"	ERW	5P719	ERW	6P856	CW	11X146	CW	29VH09
2 ½"	ERW	2WV64	ERW	2WV35	CW	11X180	CW	29VH51
2"	ERW	5P734	ERW	6P871	CW	11X163	CW	29VH30
3"	ERW	2WV72	ERW	2WV43	CW	11X194	CW	29VH71
6"	ERW	34DD72	ERW	34DD80	—	—	—	—
3½" Length								
⅛"	ERW	5P610	ERW	5P992	ERW	11X033	ERW	29VF48
¼"	ERW	5P624	ERW	6P761	CW	11X044	CW	29VF71
⅜"	ERW	5P638	ERW	6P775	CW	11X057	CW	29VF94
½"	ERW	5P655	ERW	6P792	CW	11X071	CW	29VG18
¾"	ERW	5P672	ERW	6P809	—	—	CW	29VG42
1"	ERW	5P688	ERW	6P825	CW	11X104	CW	29VG64
1 ¼"	ERW	5P704	ERW	6P841	CW	11X126	CW	29VG86
1 ½"	ERW	5P720	ERW	6P857	CW	11X147	CW	29VH10
2 ½"	CW	34DD41	CW	34DD42	CW	11X181	CW	29VH52
2"	ERW	5P735	ERW	6P872	CW	11X164	CW	29VH31
3"	CW	34DD51	CW	34DD52	CW	11X195	CW	29VH72
4"	—	—	—	—	CW	12U008	CW	29VJ11
6"	—	—	—	—	ERW	12U019	ERW	29VJ30
4" Length								
⅛"	ERW	5P611	ERW	5P993	—	—	ERW	29VF49
¼"	ERW	5P625	ERW	6P762	CW	11X045	CW	29VF72
⅜"	ERW	5P639	ERW	6P776	CW	11X058	CW	29VF95
½"	ERW	5P656	ERW	6P793	CW	11X072	CW	29VG19
¾"	ERW	5P673	ERW	6P810	CW	11X089	CW	29VG43
1"	ERW	5P689	ERW	6P826	CW	11X105	CW	29VG65
1 ¼"	ERW	5P705	ERW	6P842	CW	11X127	CW	29VG87
1 ½"	ERW	5P721	ERW	6P858	CW	11X148	CW	29VH11
2 ½"	—	—	ERW	2WV36	CW	11X182	CW	29VH53
2"	ERW	5P736	ERW	6P873	CW	11X165	CW	29VH32
3"	—	—	ERW	2WV44	CW	11X196	CW	29VH73
4"	ERW	2WV80	ERW	2WV51	CW	12U009	CW	29VJ12
6"	ERW	34DD73	ERW	34DD81	ERW	12U020	ERW	29VJ31
4½" Length								
⅛"	ERW	5P612	ERW	5P994	—	—	ERW	29VF50
¼"	ERW	5P626	ERW	6P763	CW	11X046	CW	29VF73
⅜"	ERW	5P640	ERW	6P777	CW	11X059	CW	29VF96
½"	ERW	5P657	ERW	6P794	CW	11X073	CW	29VG20
¾"	ERW	5P674	ERW	6P811	—	—	CW	29VG44
1"	ERW	5P690	ERW	6P827	CW	11X106	CW	29VG66
1 ¼"	ERW	5P706	—	—	CW	11X128	CW	29VG88
4½" Length (Cont.)								
1 ½"	ERW	5P722	ERW	6P859	CW	11X149	CW	29VH12
2 ½"	CW	34DD43	CW	34DD44	CW	11X183	CW	29VH54
2"	ERW	5P737	ERW	6P874	CW	11X166	CW	29VH33
3"	CW	34DD53	CW	34DD54	CW	11X197	CW	29VH74
4"	CW	34DD66	CW	34DD67	CW	12U010	CW	29VJ13
6"	—	—	—	—	ERW	12U021	ERW	29VJ32
5" Length								
⅛"	ERW	5P613	ERW	5P995	ERW	11X034	ERW	29VF51
¼"	ERW	5P627	ERW	6P764	CW	11X047	CW	29VF74
⅜"	ERW	5P641	ERW	6P778	CW	11X060	CW	29VF97
½"	ERW	5P658	ERW	6P795	CW	11X074	CW	29VG21
¾"	ERW	5P675	ERW	6P812	CW	11X090	CW	29VG45
1"	ERW	5P691	ERW	6P828	CW	11X107	CW	29VG67
1 ¼"	ERW	5P707	ERW	6P844	CW	11X129	CW	29VG89
1 ½"	ERW	5P723	ERW	6P860	CW	11X150	CW	29VH13
2 ½"	—	—	ERW	2WV37	CW	11X184	CW	29VH55
2"	ERW	5P738	ERW	6P875	CW	11X167	CW	29VH34
3"	ERW	2WV74	ERW	2WV45	CW	11X198	CW	29VH75
4"	ERW	2WV81	ERW	2WV52	CW	12U011	CW	29VJ14
6"	—	—	ERW	34DD82	ERW	12U022	ERW	29VJ33
5½" Length								
⅛"	ERW	5P614	ERW	5P996	—	—	ERW	29VF52
¼"	ERW	5P628	ERW	6P765	CW	11X048	CW	29VF75
⅜"	ERW	5P642	ERW	6P779	CW	11X061	CW	29VF98
½"	ERW	5P659	ERW	6P796	CW	11X075	CW	29VG22
¾"	ERW	5P676	ERW	6P813	—	—	CW	29VG46
1"	ERW	5P692	ERW	6P829	CW	11X108	CW	29VG68
1 ¼"	ERW	5P708	—	—	CW	11X130	CW	29VG90
1 ½"	ERW	5P724	ERW	6P861	CW	11X151	CW	29VH14
2 ½"	CW	34DD45	CW	34DD46	CW	11X185	CW	29VH56
2"	ERW	5P739	ERW	6P876	CW	11X168	CW	29VH35
3"	CW	34DD55	CW	34DD56	CW	11X199	CW	29VH76
4"	CW	34DD68	—	—	CW	12U012	CW	29VJ15
6"	—	—	—	—	ERW	12U023	ERW	29VJ34
6" Length								
⅛"	ERW	5P615	ERW	5P997	ERW	11X035	ERW	29VF53
¼"	ERW	5P629	ERW	6P766	CW	11X049	CW	29VF76
⅜"	ERW	5P643	ERW	6P780	CW	11X062	CW	29VF99
½"	ERW	5P660	ERW	6P797	CW	11X076	CW	29VG23
¾"	ERW	5P677	ERW	6P814	CW	11X091	CW	29VG47
1"	ERW	5P693	ERW	6P830	CW	11X109	CW	29VG69
1 ¼"	ERW	5P709	ERW	6P846	CW	11X131	CW	29VG91
1 ½"	ERW	5P725	ERW	6P862	CW	11X152	CW	29VH15
2 ½"	ERW	2WV67	ERW	2WV38	CW	11X186	CW	29VH57
2"	ERW	5P740	ERW	6P877	CW	11X169	CW	29VH36
3"	ERW	2WV75	ERW	2WV46	CW	12T994	CW	29VH77
4"	ERW	2WV82	—	2WV53	CW	12U013	CW	29VJ16
6"	ERW	34DD75	ERW	34DD83	ERW	12U024	ERW	29VJ35
6½" Length								
½"	CW	34DD16	CW	34DD17	CW	11X077	CW	29VG24
1 ½"	CW	34DD27	CW	34DD28	CW	11X153	CW	29VH16
1"	CW	34DD18	—	—	CW	11X110	CW	29VG70
1 ¼"	CW	34DD22	—	—	CW	11X132	CW	29VG92
2"	CW	34DD33	—	—	CW	11X170	CW	29VH37
2 ½"	—	—	—	—	—	—	CW	29VH58
3"	CW	34DD57	—	—	CW	12T995	CW	29VH78
6"	—	—	—	—	ERW	12U025	ERW	29VJ36
7" Length								
⅜"	ERW	5P644	ERW	2WV58	—	—	CW	29VG02
½"	ERW	5P661	ERW	6P798	CW	11X078	CW	29VG25
¾"	ERW	5P678	ERW	6P815	CW	11X092	CW	29VG49
1 ¼"	ERW	5P710	ERW	2WV24	CW	11X133	CW	29VG93
1"	ERW	5P694	ERW	6P831	CW	11X111	CW	29VG71
1 ½"	ERW	5P726	ERW	6P863	CW	11X154	CW	29VH17
2 ½"	CW	34DD47	CW	34DD48	CW	11X187	CW	29VH59
2"	—	—	—	6P878	CW	11X171	CW	29VH38
3"	CW	34DD58	CW	34DD59	CW	12T996	CW	29VH79
4"	CW	34DD70	CW	34DD71	CW	12U014	CW	29VJ18
6"	—	—	—	—	ERW	12U026	ERW	29VJ37
8" Length								
⅛"	ERW	5P616	ERW	5P998	ERW	11X036	ERW	29VF57
¼"	ERW	5P630	ERW	6P767	CW	11X050	CW	29VF80
⅜"	ERW	5P645	ERW	6P782	CW	11X063	CW	29VG04
½"	ERW	5P662	ERW	6P799	CW	11X079	CW	29VG27
¾"	ERW	5P679	ERW	6P816	CW	11X093	CW	29VG51
1"	ERW	5P695	ERW	6P832	CW	11X113	CW	29VG73
1 ¼"	ERW	5P711	ERW	6P848	CW	11X134	CW	29VG95
1 ½"	ERW	5P727	ERW	6P864	CW	11X155	CW	29VH19
2 ½"	ERW	2WV68	ERW	2WV39	CW	11X188	CW	29VH61
2"	ERW	5P742	ERW	6P879	CW	11X173	CW	29VH40
3"	ERW	2WV76	ERW	2WV47	CW	12T998	CW	29VH81
4"	ERW	2WV83	ERW	2WV54	CW	12U015	CW	29VJ20
6"	ERW	34DD76	ERW	34DD84	ERW	12U028	ERW	29VJ39
9" Length								
½"	ERW	5P663	ERW	6P800	CW	11X080	CW	29VG29
¾"	ERW	5P680	ERW	6P817	CW	11X094	CW	29VG53
1 ¼"	ERW	5P712	ERW	2WV25	CW	11X136	CW	29VG97
1"	ERW	5P696	—	—	CW	11X115	CW	29VG75
1 ½"	ERW	5P728	ERW	6P865	CW	11X156	CW	29VH21
2"	ERW	5P743	—	2WV31	CW	11X175	CW	29VH42
2 ½"	CW	34DD49	—	—	CW	11X189	CW	29VH63
3"	CW	34DD62	—	—	CW	12U001	CW	29VH83
6"	ERW	34DD77	—	—	ERW	12U030	ERW	29VJ41

** CW = Continuous weld. ERW = Electric resistance weld*

CONTINUED

CONTINUED

Welded Steel Schedule 40 Pipe Nipples

GA GRAINGER APPROVED

BECK



Pipe Size (Nominal)	GA Black Pipe Weld Type*	GA Black Item No.	GA Galvanized Pipe Weld Type*	GA Galvanized Item No.	BECK-Domestic Black Pipe Weld Type*	BECK-Domestic Black Item No.	BECK-Domestic Galvanized Pipe Weld Type*	BECK-Domestic Galvanized Item No.
10" Length								
⅛"	—	—	ERW	5P999	ERW	11X037	ERW	29VF61
¼"	ERW	5P631	ERW	6P768	—	—	CW	29VF84
⅜"	ERW	5P647	ERW	6P784	CW	11X064	CW	29VG08
½"	ERW	5P664	—	—	CW	11X081	CW	29VG31
¾"	ERW	5P681	ERW	6P818	CW	11X095	CW	29VG55
1"	ERW	5P697	ERW	6P834	CW	11X117	CW	29VG77
1 ¼"	ERW	5P713	—	6P850	CW	11X138	CW	29VG99
1 ½"	ERW	5P729	ERW	6P866	CW	11X158	CW	29VH23
2 ½"	ERW	2WV69	ERW	2WV40	CW	11X190	CW	29VH65
2"	ERW	5P744	ERW	6P881	CW	11X176	CW	29VH44
3"	ERW	2WV77	ERW	2WV48	CW	12U003	CW	29VH85
4"	ERW	2WV84	ERW	2WV55	CW	12U016	CW	29VJ24
6"	ERW	34DD78	—	—	ERW	12U032	ERW	29VJ43
11" Length								
½"	ERW	5P665	ERW	2WV19	CW	11X082	CW	29VG33
¾"	ERW	5P682	ERW	2WV20	CW	11X097	CW	29VG57
1 ½"	CW	34DD31	CW	34DD32	CW	11X159	CW	29VH25
1"	ERW	5P698	—	—	CW	11X119	CW	29VG79
1 ¼"	CW	34DD25	—	—	CW	11X140	CW	29VH02
2"	CW	34DD39	CW	34DD40	CW	11X177	CW	29VH46
2 ½"	CW	34DD50	—	—	CW	11X191	CW	29VH67
3"	—	—	CW	34DD65	CW	12U005	CW	29VH87
6"	—	—	—	—	ERW	12U034	ERW	29VJ45

Pipe Size (Nominal)	GA Black Pipe Weld Type*	GA Black Item No.	GA Galvanized Pipe Weld Type*	GA Galvanized Item No.	BECK-Domestic Black Pipe Weld Type*	BECK-Domestic Black Item No.	BECK-Domestic Galvanized Pipe Weld Type*	BECK-Domestic Galvanized Item No.
12" Length								
⅛"	ERW	5P618	ERW	6P933	ERW	11X038	ERW	29VF65
¼"	ERW	5P632	ERW	6P769	CW	11X051	CW	29VF88
⅜"	ERW	5P649	—	—	CW	11X065	CW	29VG12
½"	ERW	5P666	ERW	6P803	CW	11X083	CW	29VG35
¾"	ERW	5P683	ERW	6P820	CW	11X098	CW	29VG59
1"	ERW	5P699	ERW	6P836	CW	11X121	CW	29VG81
1 ¼"	ERW	5P715	ERW	6P852	CW	11X142	CW	29VH04
1 ½"	ERW	5P731	ERW	6P868	CW	11X160	CW	29VH27
2 ½"	ERW	2WV70	ERW	2WV41	CW	11X192	CW	29VH69
2"	ERW	5P746	ERW	6P883	CW	11X178	CW	29VH48
3"	ERW	2WV78	ERW	2WV49	CW	12U006	CW	29VH89
4"	ERW	2WV85	ERW	2WV56	CW	12U017	CW	29VJ28
6"	ERW	34DD79	ERW	34DD85	ERW	12U036	ERW	29VJ47

** CW = Continuous weld. ERW = Electric resistance weld*

GA GRAINGER APPROVED

Welded Steel Schedule 40 Pipe



Black

- Max. pressure: 150 psi CWP at 150°F, 150 psi saturated steam; except Nos. 40L305 to 40L310 are 150 psi CWP at 360°F

Pipe is carbon steel with NPT threads. Black steel pipe is interchangeable with black cast-iron or black malleable iron pipe. All pipe is for use in low-pressure plumbing applications including air, water, oil, natural gas, and steam. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	Black Steel Item No.	Galvanized Carbon Steel Item No.
18" Length		
½"	5P747	6P884
¾"	5P755	6P892
1"	5P763	6P900
1 ¼"	5P771	2WV26
1 ½"	5P779	2WV28
2"	5P787	6P924
2 ft. Length		
½"	5P748	6P885
¾"	5P756	6P893
1"	5P764	6P901
1 ¼"	5P772	6P909
1 ½"	5P780	6P917
2"	5P788	2WV32

Pipe Size (Nominal)	Black Steel Item No.	Galvanized Carbon Steel Item No.
2 ft. 6" Length		
½"	5P749	6P886
¾"	5P757	2WV21
1"	5P765	6P902
1 ½"	5P781	2WV29
2"	5P789	2WV33
3 ft. Length		
½"	5P750	6P887
¾"	5P758	6P895
1"	5P766	6P903
1 ¼"	5P774	6P911
1 ½"	5P782	6P919
2"	5P790	—

Pipe Size (Nominal)	Black Steel Item No.	Galvanized Carbon Steel Item No.
4 ft. Length		
½"	5P751	6P888
¾"	5P759	2WV22
1"	5P767	6P904
1 ¼"	5P775	2WV27
1 ½"	5P783	6P920
2"	5P791	6P928
5 ft. Length		
½"	5P752	6P889
¾"	5P760	6P897
1"	5P768	2WV23
1 ¼"	2WV57	6P913
1 ½"	5P784	2WV30
6 ft. Length		
½"	5P753	6P890
¾"	5P761	6P898
1"	5P769	6P906
1 ¼"	5P777	6P914
1 ½"	—	6P922
10 ft. Length		
½"	5E550	5E556
¾"	5E551	5E557
1"	5E552	5E558
1 ¼"	5E553	5E559
1 ½"	5E554	5E560
2"	5E555	5E561
2 ½"	40L308	40L305
3"	40L309	40L306
4"	40L310	40L307

GA GRAINGER APPROVED

Welded Steel Schedule 40 Pipe Nipple Assortment Packs

- Max. pressure: 150 psi CWP at 366°F
- NPT threads

Maximum pressure in accordance with ASME B31.3 Process Piping Code. Threads conform to ANSI B1.20.1, material conforms to ASTM A-53 Type E Grade A, and manufacturing conforms to ASTM A-733.


No. 6KC72


No. 6KC75

Pipe Size (Nominal)	Includes	Black Welded Steel Item No.	Galvanized Steel Item No.
¼"	(6) Close, (6) 1½", (6) 2", (6) 2½", (6) 3", (6) 3½", (6) 4", (6) 4½", (6) 5", (6) 5½", (6) 6" Nipples	4PRV1	4PRV2
⅜"		4PRV3	4PRV4
½"		6KC72	6KC78
¾"		6KC73	6KC79
1"	(6) Close, (6) 2", (6) 2½", (6) 3", (6) 3½", (6) 4", (6) 4½", (6) 5", (6) 5½", (6) 6" Nipples	6KC74	6KC80
1 ¼"		6KC75	6KC81
1 ½"		6KC76	6KC82
2"	(6) Close, (6) 2½", (6) 3", (6) 3½", (6) 4", (6) 4½", (6) 5", (6) 5½", (6) 6" Nipples	6KC77	6KC83

GA GRAINGER APPROVED

Malleable Iron Pipe Fittings—Class 300

- Fittings max. pressure: see Pressure-Temperature Ratings table
- Unions max. pressure: 600 psi CWP at 150°F; 230 psi Steam at 550°F

Thicker walls of Class 300 fittings withstand higher pressures than Class 150 fittings. Suitable for air, water, oil, natural gas, and steam. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Fittings must be used with properly rated nipples. For more fitting sizes, go to Grainger.com®.

PRESSURE-TEMPERATURE RATINGS

Temp. °F	NPS Pipe Size ¼" to 1"	1¼" to 2"	2½" x 3"
-20 to 150	2000	1500	1000
200	1785	1350	910
250	1575	1200	825
300	1360	1050	735
350	1150	900	650
400	935	750	560
450	725	600	475
500	510	450	385
550	300	300	300

EXTRA HEAVY (XH) MERCHANT COUPLINGS

XH Steel Couplings for use with Schedule 80 pipe.













Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	ANVIL Domestic - Black Item No.
Cap, FNPT			
¼"	1LBZ4	—	12G112
⅜"	1LBZ5	—	12G113
½"	1LBZ6	—	12G114
¾"	1LBZ7	—	12G115
1"	1LBZ8	—	12G116
1¼"	1LBZ9	—	12G117
1½"	1LCA1	—	12G534
2"	1LCA2	1LBR6	12G535
2½"	—	—	12G536
3"	—	5XTH8	12G537
Coupling, FNPT			
¼"	1LBY3	1LBN7	12G060
⅜"	1LBY4	—	12G061
½"	1LBY5	1LBN9	12G062
¾"	1LBY6	1LBP1	12G063
1"	1LBY7	1LBP2	12G064
1¼"	1LBY8	1LBP3	12G065
1½"	1LBY9	—	12G066
2"	1LBZ1	1LBP5	12G067
2½"	—	—	12G068
3"	—	1LBP7	12G069
Cross, FNPT			
⅜"	5PAU4	—	—
½"	5PAU5	—	—
¾"	5PAU6	—	—
1"	5PAU7	5PAR6	—
1¼"	5PAU8	—	—
1½"	5PAU9	—	—
Elbow, 45°, FNPT			
¼"	1LBV2	—	12G029
⅜"	1LBV3	—	12G030
½"	1LBV4	—	12G031
¾"	1LBV5	—	12G032
1"	1LBV6	—	12G033
1¼"	1LBV7	—	12G034
1½"	1LBV8	1LBK3	12G035
2"	1LBV9	1LBK4	12G036
2½"	—	—	12G037
3"	1LBW2	—	12G038
4"	—	—	12G039
Elbow, 90°, FNPT			
¼"	1LBU1	1LBG5	12G009
⅜"	1LBU2	—	12G010
½"	1LBU3	1LBG7	12G011
¾"	1LBU4	1LBG8	12G012
1"	1LBU5	1LBG9	12G013
1¼"	1LBU6	1LBH1	12G014
1½"	1LBU7	1LBH2	12G015
2"	1LBU8	1LBH3	12G016
2½"	1LBU9	—	12G017
3"	1LBV1	—	12G018
4"	—	—	12G019
Reducer Coupling, FNPT			
⅜"x¼"	1XKR8	1XKV3	12G070
½"x¼"	1XKR9	—	12G072
½"x⅜"	1XKT1	—	12G071
¾"x¼"	5PAT9	—	12G075
¾"x⅜"	1XKT2	—	12G074
¾"x½"	1XKT3	1XKV7	12G073
1"x¼"	—	—	12G079
1"x⅜"	1XKT4	—	12G078
1"x½"	1XKT5	1XKV9	12G077
1"x¾"	1XKT6	1XKW1	12G076
1¼"x½"	—	—	12G082
1¼"x¾"	1XKT7	1XKW2	12G081
1¼"x1"	1XKT8	—	12G080
1½"x½"	—	—	12G086
1½"x¾"	1XKU1	—	12G085
1½"x1"	1XKU2	—	12G084
1½"x1¼"	1XKU3	1XKW7	12G083
2"x½"	5PAK9	—	12G091
2"x¾"	1XKU4	1XKW8	12G090
2"x1"	1XKU5	1XKW9	12G089
2"x1¼"	1XKU6	—	12G088
2"x1½"	1XKU7	—	12G087
2½"x1½"	—	—	12G093
2½"x2"	5PAL0	—	12G092
3"x1½"	—	—	12G096
3"x2"	5PAL1	—	12G095
3"x2½"	—	—	12G094
4"x2"	—	—	12G098
4"x3"	—	—	12G097















Pipe Size - Pipe Fitting	GA Black Item No.	GA Galvanized Item No.	ANVIL Domestic - Black Item No.
Reducing Tee (run x run x outlet), FNPT			
½"x½"x¼"	—	—	12G051
¾"x¾"x½"	—	—	12G052
1"x1"x½"	5PAL5	—	12G054
1"x1"x¾"	—	—	12G053
1¼"x1¼"x1"	5PAL7	—	—
1½"x1½"x1"	5PAL8	—	—
2"x2"x½"	—	—	12G059
2"x2"x¾"	5PAN0	—	12G058
2"x2"x1"	5PAN2	—	12G057
2"x2"x1¼"	—	—	12G056
2"x2"x1½"	—	—	12G055
3"x3"x2"	—	5PAK7	—
Square Head Plug, MNPT			
⅜"	5PAV1	5PAT0	—
½"	—	5PAT1	—
¾"	5PAV3	5PAT2	—
1"	—	5PAT3	—
1¼"	5PAV5	5PAT4	—
1½"	5PAV6	5PAT5	—
2"	—	5PAT6	—
Street Elbow, 45°, FNPT x MNPT			
¾"	1XKR4	—	—
1"	1XKR5	1XKU9	—
1¼"	1XKR6	—	—
1½"	1XKR7	—	—
Street Elbow, 90°, FNPT x MNPT			
¼"	1LBW3	—	12G020
⅜"	1LBW4	—	12G021
½"	1LBW5	1LBK9	12G022
¾"	1LBW6	1LBL1	12G023
1"	1LBW7	—	12G024
1¼"	1LBW8	—	12G025
1½"	1LBW9	—	12G026
2"	1LBX1	—	12G027
3"	—	—	12G028
Tee, FNPT			
¼"	1LBX2	—	12G040
⅜"	1LBX3	—	12G041
½"	1LBX4	1LBL8	12G042
¾"	1LBX5	1LBL9	12G043
1"	1LBX6	1LBN1	12G044
1¼"	1LBX7	1LBN2	12G045
1½"	1LBX8	1LBN3	12G046
2"	1LBX9	1LBN4	12G047
2½"	—	—	12G048
3"	—	—	12G049
4"	—	—	12G050
Union, FNPT			
¼"	1LCA3	—	12G101
⅜"	1LCA4	—	12G102
½"	1LCA5	1LBT1	12G103
¾"	1LCA6	1LBT2	12G104
1"	1LCA7	1LBT3	12G105
1¼"	1LCA8	—	12G106
1½"	1LCA9	1LBT5	12G107
2"	1LCB1	1LBT6	12G108
2½"	1LCB2	—	12G109
3"	1LCB3	1LBT8	12G110
4"	—	—	12G111

Pipe Size - Pipe Fitting	ANVIL Domestic - Black Item No.
Extra Heavy (XH) Merchant Coupling, FNPT	
½"	14J821
¾"	14J822
1"	14J823
1¼"	14J824
1½"	14J825
2"	14J826

Black Steel Schedule 80 Welded Pipe Nipples

GA GRAINGER APPROVED



- Max. pressure: 300 psi CWP at 550°F

Extra-heavy nipples handle higher pressures and more rugged service. NPT threads and electric resistance weld (ERW). For use in air, water, oil, and gas applications. Maximum pressure in accordance with ASME B31.3 Process Piping Code. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Nipples must be used with properly rated fittings.

Pipe Size (Nominal)	Item No.
Close Thread	
½"	1XKX3
¾"	1XKZ2
2"	1XLG4
1½" Length	
½"	1XKX4
¾"	1XKZ3
1"	1XLB1
1⅝" Length	
1¼"	1XLC8
1¾" Length	
1½"	1XLE6

Pipe Size (Nominal)	Item No.
2" Length	
½"	1XKX5
¾"	1XKZ4
1"	1XLB2
1¼"	1XLC9
1½"	1XLE7
2½" Length	
½"	1XKX6
¾"	1XKZ5
1"	1XLB3
1¼"	1XLD1
1½"	1XLE8
2"	1XLG5

Pipe Size (Nominal)	Item No.
3" Length	
½"	1XKX7
¾"	1XKZ6
1"	1XLB4
1¼"	1XLD2
1½"	1XLE9
2"	1XLG6
3½" Length	
½"	1XKX8
¾"	1XKZ7
1"	1XLB5
1¼"	1XLD3
1½"	1XLF1
2"	1XLG7

Pipe Size (Nominal)	Item No.
4" Length	
¾"	1XKZ8
1"	1XLB6
1¼"	1XLD4
1½"	1XLF2
2"	1XLG8
4½" Length	
½"	1XKY1
¾"	1XKZ9
1"	1XLB7
1¼"	1XLD5
1½"	1XLF3
2"	1XLG9

Pipe Size (Nominal)	Item No.
5" Length	
½"	1XKY2
¾"	1XLA1
1"	1XLB8
1¼"	1XLD6
1½"	1XLF4
2"	1XLH1
5½" Length	
½"	1XKY3
¾"	1XLA2
1"	1XLB9
1¼"	1XLD7
1½"	1XLF5
2"	1XLH2
2½"	1XLJ1
3"	1XLJ9
6" Length	
½"	1XKY4
¾"	1XLA3
1"	1XLC1
1¼"	1XLD8
1½"	1XLF6
2"	1XLH3
2½"	1XLJ2
3"	1XLK1

Pipe Size (Nominal)	Item No.
7" Length	
½"	1XKY5
¾"	1XLA4
1"	1XLC2
1¼"	1XLD9
1½"	1XLF7
2"	1XLH4
2½"	1XLJ3
3"	1XLK2
8" Length	
½"	1XKY6
¾"	1XLA5
1"	1XLC3
1¼"	1XLE1
1½"	1XLF8
2"	1XLH5
3"	1XLK3
9" Length	
½"	1XKY7
¾"	1XLA6
1"	1XLC4
1¼"	1XLE2
1½"	1XLF9
2"	1XLH6
2½"	1XLJ5
3"	1XLK4

Pipe Size (Nominal)	Item No.
10" Length	
½"	1XKY8
¾"	1XLA7
1"	1XLC5
1¼"	1XLE3
1½"	1XLG1
2"	1XLH7
3"	1XLK5
11" Length	
¾"	1XLA8
1"	1XLC6
1¼"	1XLE4
1½"	1XLG2
2"	1XLH8
2½"	1XLJ7
12" Length	
½"	1XKZ1
¾"	1XLA9
1"	1XLC7
1¼"	1XLE5
1½"	1XLG3
2"	1XLH9
2½"	1XLJ8
3"	1XLK7



BECK

Black Steel Schedule 80 Welded Unthreaded Pipe

- Max. pressure in accordance with ASME B31.1 or B31.3 for SCH 80 pipe

Can be custom threaded to meet specific requirements, or welded for a strong, leak-resistant seal. Use in industrial applications with air, oil, natural gas, or steam. Meet ASTM A53 Type F Grade A for continuous weld pipe (CW) and A733.

Note: Pipes must be used with properly rated fittings.

Pipe Size (Nominal)	Overall Pipe Length 12" Item No.	3 ft. Item No.	6 ft. Item No.
⅛"	32UK81	32UK82	32UK83
⅜"	32UK84	32UK85	32UK86
½"	32UK87	32UK88	32UK89
¾"	32UK90	32UK91	32UK92
1"	32UK93	32UK94	32UK95
1 ¼"	32UK96	32UK97	32UK98
1 ½"	32UK99	32UL01	32UL02
2"	32UL03	32UL04	32UL05
2 ½"	32UL06	32UL07	32UL08
3"	32UL09	32UL10	32UL11
4"	32UL12	32UL13	32UL14



Close Thread Nipple



Pipe

GA GRAINGER APPROVED BECK

Black Steel Schedule 80 Seamless Pipe Nipples and Pipe

- Max. pressure for pipe nipples is in accordance with ASME B31.1 or B31.3 for SCH 80 pipe; max. pressure for pipe: 300 psi CWP at 550°F in accordance with ASME B31.3 Process Piping Code

Seamless construction provides excellent protection against leaks. Thicker walls allow use in higher-pressure applications than Schedule 40 nipples and pipe. For use in high-pressure applications with air, water, oil, natural gas, and steam. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Nipples and pipe must be used with properly rated fittings.

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
Close Thread		
⅛"	1LLU4	20H641
¼"	1LLW9	20H658
⅜"	1LLZ5	20H675
½"	1LMC1	20H692
¾"	1LME6	20H710
1"	1LMJ2	20H727
1¼"	1LML6	20H743
1½"	1LMR1	20H759
2"	1LMU6	20H775
2½"	—	20H790
3"	—	20H805
4"	—	20H819
5"	—	20H831
6"	—	20H842
1½" Length		
⅛"	1LLU5	20H642
¼"	—	20H659
⅜"	1LLZ6	20H676
½"	1LMC2	20H693
¾"	1LME7	20H711
2" Length		
⅛"	1LLU6	20H643
¼"	1LLX2	20H660
⅜"	1LLZ7	20H677
½"	1LMC3	20H694
¾"	1LME8	20H712
1"	1LMJ3	20H728
1¼"	1LML7	20H744
1½"	1LMR2	20H760

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
2½" Length		
⅛"	1LLU7	20H644
¼"	1LLX3	20H661
⅜"	1LLZ8	20H678
½"	1LMC4	20H695
¾"	1LME9	20H713
1"	1LMJ4	20H729
1¼"	1LML8	20H745
1½"	1LMR3	20H761
2"	1LMU7	20H776
3" Length		
⅛"	1LLU8	20H645
¼"	1LLX4	20H662
⅜"	1LLZ9	20H679
½"	1LMC5	20H696
¾"	1LMG1	20H714
1"	1LMJ5	20H730
1¼"	1LML9	20H746
1½"	1LMR4	20H762
2"	1LMU8	20H777
2½"	—	20H791
3"	—	20H806

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
3½" Length		
⅛"	1LLU9	20H646
¼"	1LLX5	20H663
⅜"	1LMA1	20H680
½"	1LMC6	20H697
¾"	1LMG2	20H715
1"	1LMJ6	20H731
1¼"	1LMN1	20H747
1½"	1LMR5	20H763
2"	1LMU9	20H778
2½"	—	20H792
3"	—	20H807
4" Length		
⅛"	1LLV1	20H647
¼"	1LLX6	20H664
⅜"	1LMA2	20H681
½"	1LMC7	20H698
¾"	1LMG3	20H716
1"	1LMJ7	20H732
1¼"	1LMN2	20H748
1½"	1LMR6	20H764
2"	1LMV1	20H779
2½"	—	20H793
3"	—	20H808
4"	—	20H820

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
4½" Length		
⅛"	1LLV2	20H648
¼"	1LLX7	20H665
⅜"	1LMA3	20H682
½"	1LMC8	20H699
¾"	1LMG4	20H717
1"	1LMJ8	20H733
1¼"	1LMN3	20H749
1½"	1LMR7	20H765
2"	1LMV2	20H780
2½"	—	20H794
3"	—	20H809
4"	—	20H821
5"	—	20H832
6"	—	20H843
5" Length		
⅛"	1LLV3	20H649
¼"	1LLX8	20H666
⅜"	1LMA4	20H683
½"	1LMC9	20H701
¾"	1LMG5	20H718
1"	1LMJ9	20H734
1¼"	1LMN4	20H750
1½"	1LMR8	20H766
2"	1LMV3	20H781
2½"	—	20H795
3"	—	20H810
4"	—	20H822
5"	—	20H833
6"	—	20H844

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
5½" Length		
⅛"	1LLV4	20H650
¼"	1LLX9	20H667
⅜"	1LMA5	20H684
½"	1LMD1	20H702
¾"	1LMG6	20H719
1"	1LMK1	20H735
1¼"	1LMN5	20H751
1½"	1LMR9	20H767
2"	1LMV4	20H782
2½"	1RJT6	20H796
3"	1RJV2	20H811
4"	—	20H823
5"	—	20H834
6"	—	20H845
6" Length		
⅛"	1LLV5	20H651
¼"	1LLY1	20H668
⅜"	1LMA6	20H685
½"	1LMD2	20H703
¾"	1LMG7	20H720
1"	1LMK2	20H736
1¼"	1LMN6	20H752
1½"	1LMT1	20H768
2"	1RJR2	20H783
2½"	1RJT7	20H797
3"	1RJV3	20H812
4"	—	20H824
5"	—	20H835
6"	—	20H846

CONTINUED

CONTINUED

Black Steel Schedule 80 Seamless Pipe Nipples and Pipe

★ GA GRAINGER APPROVED

BECK


Close Thread Nipple


Pipe

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
7" Length		
⅛"	1LLV6	20H652
¼"	1LLY2	20H669
⅜"	1LMA7	20H686
½"	1LMD3	20H704
¾"	1LMG8	20H721
1"	1LMK3	20H737
1 ¼"	1LMN7	20H753
1 ½"	1LMT2	20H769
2"	1RJR3	—
2 ½"	1RJT8	20H798
3"	1RJV4	20H813
4"	—	20H825
5"	—	20H836
6"	—	20H847
8" Length		
⅛"	1LLV7	20H653
¼"	1LLY3	20H670
⅜"	1LMA8	20H687
½"	1LMD4	20H705
¾"	1LMG9	20H722
1"	1LMK4	20H738
1 ¼"	1LMN8	20H754
1 ½"	1LMT4	20H770
2"	1RJR4	20H785
2 ½"	—	20H799
3"	1RJV5	20H814
4"	—	20H826
5"	—	20H837
6"	—	20H848
9" Length		
⅛"	1LLV8	20H654
¼"	1LLY4	20H671
⅜"	1LMA9	20H688
½"	1LMD5	20H706
¾"	1LMH1	20H723
1"	1LMK5	20H739
1 ¼"	1LMN9	20H755
1 ½"	1LMT5	20H771
2"	1RJR5	20H786
2 ½"	1RJU1	20H801
3"	1RJV6	20H815
4"	—	20H827
5"	—	20H838
6"	—	20H849

Pipe Size (Nominal)	NIPPLE GA Item No.	NIPPLE BECK Domestic Item No.
10" Length		
⅛"	1LLV9	20H655
¼"	1LLY5	20H672
⅜"	1LMB1	20H689
½"	1LMD6	20H707
¾"	1LMH2	20H724
1"	1LMK6	20H740
1 ¼"	1LMP1	20H756
1 ½"	1LMT6	20H772
2"	1RJR6	20H787
2 ½"	1RJU2	20H802
3"	1RJV7	20H816
4"	—	20H828
5"	—	20H839
6"	—	20H850
11" Length		
⅛"	—	20H656
¼"	—	20H673
⅜"	1LMB2	20H690
½"	1LMD7	20H708
¾"	1LMH3	20H725
1"	1LMK7	20H741
1 ¼"	1LMP2	20H757
1 ½"	1LMT7	20H773
2"	1RJR7	20H788
2 ½"	1RJU3	20H803
3"	—	20H817
4"	—	20H829
5"	—	20H840
6"	—	20H851
12" Length		
⅛"	1LLW2	20H657
¼"	1LLY7	20H674
⅜"	—	20H691
½"	1LMD8	20H709
¾"	1LMH4	20H726
1"	1LMK8	20H742
1 ¼"	1LMP3	20H758
1 ½"	1LMT8	20H774
2"	1RJR8	20H789
2 ½"	—	20H804
3"	1RJV9	20H818
4"	—	20H830
5"	—	20H841
6"	—	20H852

Pipe Size (Nominal)	PIPE GA Item No.
18" Length	
¼"	1LLY8
⅜"	1LMB4
½"	1LMD9
¾"	1LMH5
1"	1LMK9
1 ¼"	1LMP4
1 ½"	1LMT9
2"	1RJR9
2 ½"	1RJU5
3"	1RJW1
2 ft.	
¼"	1LLY9
⅜"	1LMB5
½"	1LME1
1"	1LML1
1 ¼"	1LMP5
1 ½"	1LMU1
2"	1RJT1
2 ½"	1RJU6
3"	1RJW2

Pipe Size (Nominal)	PIPE GA Item No.
3 ft.	
¼"	1LLZ1
⅜"	1LMB6
½"	1LME2
¾"	1LMH7
1"	1LML2
1 ¼"	1LMP6
1 ½"	1LMU2
2"	1RJT2
2 ½"	1RJU7
3"	1RJW3
4 ft.	
¼"	1LLZ2
⅜"	1LMB7
½"	1LME3
¾"	1LMH8
1"	1LML3
1 ¼"	1LMP7
1 ½"	1LMU3
2"	1RJT3
2 ½"	1RJU8

Pipe Size (Nominal)	PIPE GA Item No.
5 ft.	
¼"	1LLZ3
⅜"	1LMB8
½"	1LME4
¾"	1LMH9
1"	1LML4
1 ¼"	1LMP8
1 ½"	1LMU4
2"	1RJT4
2 ½"	1RJU9
3"	1RJW5
6 ft.	
¼"	1LLZ4
⅜"	1LMB9
½"	1LME5
¾"	1LMJ1
1"	1LML5
1 ¼"	1LMP9
1 ½"	1LMU5
2"	1RJT5
2 ½"	1RJV1
3"	1RJW6

Looking for Pipe Thread Sealant Tapes?

Find them on page 2820, or for our full selection go to **Grainger.com®** and search for **Pipe Thread Sealant Tapes**.



Black and Galvanized Steel Schedule 160 Pipe Nipples and Seamless Pipe

★ GA GRAINGER APPROVED


Close Thread Nipple


Pipe

NPT threads at both ends allow for easy connections. Use with air, water, oil, natural gas, and steam in high-pressure, high-temperature boiler applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Nipples must be used with properly rated fittings.

Pipe Size (Nominal)	NIPPLE Black Steel Item No.	NIPPLE Galvanized Steel Item No.
Close Thread		
½"	—	1RKK1
1"	—	1RKL4
1 ¼"	1RKB3	—
1 ½"	1RKC7	—
2"	1RKE2	—
2 ½"	1RKF5	—
4"	1RKH9	—
1 ⅛" Length		
½"	1RJW7	—
1 ⅜" Length		
¾"	1RJY3	1RKK7
1 ½" Length		
½"	1RJW8	1RKK2
¾"	1RJY4	1RKK8
1"	1RJZ8	—
1 ⅝" Length		
1 ¼"	—	1RKL9
2" Length		
½"	1RJW9	1RKK3
¾"	1RJY5	1RKK9
1"	1RJZ9	1RKL5
1 ¼"	1RKB4	1RKN1
1 ½"	1RKC8	—
2"	—	1RKP1

Pipe Size (Nominal)	NIPPLE Black Steel Item No.	NIPPLE Galvanized Steel Item No.
2 ½" Length		
½"	1RJX1	—
¾"	1RJY6	—
1"	1RKA1	—
1 ¼"	1RKB5	—
1 ½"	1RKC9	—
2"	1RKE3	—
2 ⅝" Length		
3"	1RKG7	—
3" Length		
½"	1RJX2	1RKK4
¾"	1RJY7	1RKL1
1"	1RKA2	1RKL6
1 ¼"	1RKB6	1RKN2
1 ½"	1RKD1	1RKN7
2"	1RKE4	1RKP2
2 ½"	1RKF6	—
3"	1RKG8	—
4" Length		
½"	1RJX3	1RKK5
¾"	1RJY8	1RKL2
1"	1RKA3	1RKL7
1 ¼"	1RKB7	1RKN3
1 ½"	1RKD2	1RKN8
2"	1RKE5	1RKP3
3"	1RKG9	—
4"	1RKJ1	—

Pipe Size (Nominal)	NIPPLE Black Steel Item No.	NIPPLE Galvanized Steel Item No.
5" Length		
½"	1RJX4	—
¾"	1RJY9	—
1"	1RKA4	—
1 ¼"	1RKB8	—
1 ½"	1RKD3	—
2"	1RKE6	—
2 ½"	1RKF8	—
3"	1RKH1	—
4"	1RKJ2	—
6" Length		
½"	1RJX5	1RKK6
¾"	1RJZ1	1RKL3
1"	1RKA5	1RKL8
1 ¼"	1RKB9	1RKN4
1 ½"	1RKD4	—
2"	1RKE7	1RKP4
2 ½"	1RKF9	—
3"	1RKH2	—
4"	1RKJ3	—

Pipe Size (Nominal)	NIPPLE Black Steel Item No.	NIPPLE Galvanized Steel Item No.
8" Length		
½"	1RJX6	—
¾"	1RJZ2	—
1"	1RKA6	—
1 ¼"	1RKC1	—
1 ½"	1RKD5	—
2"	1RKE8	—
2 ½"	1RKG1	—
3"	1RKH3	—
4"	1RKJ4	—
10" Length		
½"	1RJX7	—
¾"	1RJZ3	—
1"	1RKA7	—
1 ¼"	1RKC2	—
1 ½"	1RKD6	—
2"	1RKE9	—
2 ½"	1RKG2	—
4"	1RKJ5	—
12" Length		
½"	1RJX8	—
¾"	1RJZ4	—
1"	1RKA8	—
1 ¼"	1RKC3	—
1 ½"	1RKD7	—
2"	1RKF1	—
2 ½"	1RKG3	—
3"	1RKH5	—
4"	1RKJ6	—

Pipe Size (Nominal)	PIPE Black Steel Item No.
18" Length	
¾"	1RJZ5
1"	1RKA9
1 ¼"	1RKC4
1 ½"	1RKD8
2"	1RKF2
2 ½"	1RKG4
3"	1RKH6
4"	1RKJ7
2 ft. Length	
½"	1RJY1
¾"	1RJZ6
1 ¼"	1RKC5
1 ½"	1RKD9
2"	1RKF3
2 ½"	1RKG5
4"	1RKJ8
3 ft. Length	
½"	1RJY2
¾"	1RJZ7
1"	1RKB2
1 ¼"	1RKC6
1 ½"	1RKE1
2"	1RKF4
2 ½"	1RKG6
3"	1RKH8
4"	1RKJ9

Forged Steel Black and Galvanized Pipe Fittings—Class 3000

GA GRAINGER APPROVED

ANVIL INTERNATIONAL Building Connections That Last

- GA max. pressure: 3000 psi at 72°F
- Anvil socket weld fittings max. pressure in accordance with ASME B31.1 or B31.3 for SCH 80 pipe
- Anvil fittings are made in the U.S.

Thick-walled fittings offer you a simple, economical installation and are ideal for use with water and oil in chemical, petrochemical, pulp, paper, shipbuilding, waste incineration, and semiconductor industry applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Fittings must be used with properly rated nipples and pipe. GA 90° street elbows are not recommended for pressure above 600 psi.



Pipe Size - Pipe Fitting	GA Black Forged Steel Item No.	GA Galvanized Forged Steel Item No.	ANVIL Black Forged Steel Item No.
Bushing			
NPT			
¼" x ⅛"	1MNJ3	—	—
⅜" x ⅛"	1MNJ4	—	—
⅜" x ¼"	1MNJ5	—	—
½" x ¼"	1MNJ6	—	—
½" x ⅜"	1MNJ7	—	—
¾" x ⅜"	1MNJ8	—	—
¾" x ½"	1MNJ9	—	—
1" x ½"	1MNK1	—	—
1" x ¾"	1MNK2	—	—
1¼" x 1"	1MNK3	—	—
1½" x 1¼"	1MNK4	—	—
2" x 1"	1MNK5	—	—
2" x 1½"	1MNK6	—	—
2½" x 2"	1MNK7	—	—



Cap			
FNPT			
⅛"	1MND8	—	—
¼"	1MND9	—	—
⅜"	1MNE1	—	—
½"	1MNE2	—	—
¾"	1MNE3	1MPK8	—
1"	1MNE4	1MPK9	—
1¼"	1MNE5	—	—
1½"	1MNE6	—	—
2"	1MNE7	1MPL3	—
Socket Weld			
⅛"	—	—	29VE54
¼"	—	—	29VE55
⅜"	—	—	29VE56
½"	—	—	29VE57
¾"	—	—	29VE58
1"	—	—	29VE59
1¼"	—	—	29VE60
1½"	—	—	29VE61
2"	1MNW2	—	29VE62
2½"	1MNW3	—	29VE63
3"	1MNW4	—	29VE64
4"	—	—	29VE65
Threaded			
⅛"	—	—	29VC65
¼"	—	—	29VC66
⅜"	—	—	29VC67
½"	—	—	29VC68
¾"	—	—	29VC69
1"	—	—	29VC70
1¼"	—	—	29VC71
1½"	—	—	29VC72
2"	—	—	29VC73
2½"	—	—	29VC74
3"	—	—	29VC75
4"	—	—	29VC76



Coupling			
FNPT			
⅛"	1MMZ9	—	29JE43
¼"	1MNA1	1MPF8	29JE44
⅜"	1MNA2	—	29JE45
½"	1MNA3	1MPH1	29JE46
¾"	1MNA4	1MPH2	29JE47
1"	1MNA5	—	29JE48
1¼"	1MNA6	1MPH4	29JE49
1½"	1MNA7	1MPH5	29JE50
2"	1MNA8	1MPH6	29JE51
2½"	—	—	29JE52
3"	1MNB1	—	29JE53
4"	—	—	29JE54
Socket Weld			
⅛"	—	—	29VE34
¼"	1MNW7	—	29VE35
⅜"	1MNW8	—	29VE36
½"	1MNW9	—	29VE37
¾"	1MNX1	—	29VE38
1"	1MNX2	—	29VE39
1¼"	1MNX3	—	29VE40
1½"	—	—	29VE41
2"	1MNX5	—	29VE42
2½"	1MNX6	—	29VE43
3"	1MNX7	—	29VE44
4"	—	—	29VE45



Cross			
FNPT			
⅛"	—	—	29JE31
¼"	1MMZ1	—	29JE32
⅜"	—	—	29JE33
½"	—	—	29JE34
¾"	1MMZ4	—	29JE35
1"	1MMZ5	—	29JE36
1¼"	1MMZ6	—	29JE37
1½"	—	—	29JE38
2"	1MMZ8	—	29JE39
2½"	—	—	29JE40
3"	—	—	29JE41
4"	—	—	29JE42
Socket Weld			
½"	—	—	29VE26
¾"	—	—	29VE27
1"	—	—	29VE28
1¼"	—	—	29VE29
1½"	—	—	29VE30
2"	—	—	29VE31
2½"	—	—	29VE33
3"	—	—	29VE32



Elbow, 45°			
FNPT			
⅛"	1MMW3	—	29JD93
¼"	1MMW4	—	29JD94
⅜"	—	—	29JD95
½"	1MMW6	1MPE3	29JD96
¾"	1MMW7	1MPE4	29JD97
1"	1MMW8	1MPE5	29JD98
1¼"	1MMW9	—	29JD99
1½"	1MMX1	—	29JE01
2"	1MMX2	1MPE8	29JE02
2½"	—	—	29JE03
3"	—	—	29JE04
4"	—	—	29JE05
Socket Weld			
⅛"	—	—	29VE02
¼"	—	—	29VE03
⅜"	—	—	29VE04
½"	—	—	29VE05
¾"	—	—	29VE06
1"	1MNN9	—	29VE07
1¼"	1MNP1	—	29VE08
1½"	1MNP2	—	29VE09
2"	1MNP3	—	29VE10
2½"	—	—	29VE11
3"	1MNP5	—	29VE12
4"	—	—	29VE13



Elbow, 90°			
FNPT			
⅛"	1MMU1	—	29JD66
¼"	1MMU2	1MPC3	29JD67
⅜"	1MMU3	—	29JD68
½"	1MMU4	1MPC5	29JD69
¾"	1MMU5	1MPC6	29JD70
1"	1MMU6	1MPC7	29JD71
1¼"	1MMU7	—	29JD72
1½"	1MMU8	1MPC9	29JD73
2"	1MMU9	1MPD1	29JD74
2½"	—	—	29JD75
3"	—	—	29JD76
4"	—	—	29JD77
Socket Weld			
⅛"	—	—	29VD89
¼"	—	—	29VD90
⅜"	—	—	29VD91
½"	1MNL4	—	29VD92
¾"	1MNL5	—	29VD93
1"	1MNL6	—	29VD94
1¼"	1MNL7	—	29VD95
1½"	1MNL8	—	29VD96
2"	1MNL9	—	29VD97
2½"	1MNN1	—	29VD98
3"	1MNN2	—	29VD99
4"	1MNN3	—	29VE01



Half Coupling			
FNPT			
⅛"	1MNB3	—	29JE55
¼"	1MNB4	—	29JE56
⅜"	1MNB5	—	29JE57
½"	1MNB6	—	29JE58
¾"	1MNB7	1MPJ1	29JE59
1"	—	—	29JE60
1¼"	—	—	29JE61
1½"	1MNC1	—	29JE62
2"	1MNC2	—	29JE63
2½"	—	—	29JE64
3"	1MNC4	—	29JE65
4"	—	—	29JE66
Socket Weld			
¾"	1MNY4	—	29VE46
1"	—	—	29VE47
1¼"	—	—	29VE48
1½"	—	—	29VE49
2"	—	—	29VE50
2½"	—	—	29VE51
3"	—	—	29VE52
4"	—	—	29VE53



Hex Bushing			
FNPT x MNPT			
2" x 1½"	—	1MPP1	—
MNPT x FNPT			
¼" x ⅛"	—	—	29VD11
⅜" x ⅛"	—	—	29VD12
⅜" x ¼"	—	1MPN3	29VD13
½" x ⅛"	—	—	29VD14
½" x ⅜"	—	1MPN4	—
¾" x ⅛"	—	—	29VD17
¾" x ⅜"	—	—	29VD19
¾" x ½"	—	1MPN5	—
1" x ⅜"	—	—	29VD23
1" x ½"	—	1MPN6	—
1¼" x ⅜"	—	—	29VD28
1¼" x ½"	—	—	29VD29
1¼" x ¾"	—	—	29VD30
1¼" x 1"	—	—	29VD31
1½" x ½"	—	—	29VD35
1½" x ¾"	—	—	29VD36
1½" x 1¼"	—	1MPN9	29VD38
2½" x 1"	—	—	29VD52
2½" x 1¼"	—	—	29VD53
2½" x 1½"	—	—	29VD54
2½" x 2"	—	—	29VD55
3" x 1¼"	—	—	29VD59
3" x 1½"	—	—	29VD60
3" x 2"	—	—	29VD61
3" x 2½"	—	—	29VD62
4" x 1½"	—	—	29VD65
4" x 2"	—	—	29VD66
4" x 2½"	—	—	29VD67
4" x 3"	—	—	29VD68



Hex Head Plug			
MNPT			
⅛"	1MNF2	—	29VC89
¼"	1MNF3	1MPL4	29VC90
⅜"	1MNF4	1MPL5	29VC91
½"	1MNF5	1MPL6	—
¾"	1MNF6	1MPL7	—
1"	1MNF7	1MPL8	—
1¼"	1MNF8	—	29VC95
1½"	1MNF9	1MPN1	—
2"	1MNG1	1MPN2	—
2½"	—	—	29VC98
3"	—	—	29VC99
4"	—	—	29VD01



Lateral, 45°			
FNPT			
½"	—	—	29JD87
¾"	—	—	29JD88
1"	—	—	29JD89
2"	—	—	29JD92

CONTINUED

CONTINUED

Forged Steel Black and Galvanized Pipe Fittings—Class 3000

GA GRAINGER APPROVED

ANVIL INTERNATIONAL Building Connections That Last

Pipe Size - Pipe Fitting	GA Black Forged Steel Item No.	GA Galvanized Forged Steel Item No.	ANVIL Black Forged Steel Item No.
Reducer			
¼" x ⅛"	1MNG5	—	29JE67
⅜" x ⅛"	1MNG6	—	29JE68
⅜" x ¼"	1MNG7	—	29JE69
½" x ⅛"	—	—	29JE70
½" x ¼"	1MNG8	—	29JE71
½" x ⅜"	1MNG9	—	29JE72
¾" x ⅛"	—	—	29JE73
¾" x ¼"	—	—	29JE74
¾" x ⅜"	1MNH1	—	29JE75
¾" x ½"	1MNH2	—	29JE76
1" x ¼"	—	—	29JE78
1" x ⅜"	—	—	29JE79
1" x ½"	1MNH3	—	29JE80
1" x ¾"	1MNH4	—	29JE81
1¼" x ⅜"	—	—	29JE84
1¼" x ½"	—	—	29JE85
1¼" x ¾"	—	—	29JE86
1¼" x 1"	1MNH5	—	29JE87
1½" x ⅛"	—	—	29JE91
1½" x ¾"	—	—	29JE92
1½" x 1"	—	—	29JE93
1½" x 1¼"	1MNH6	—	29JE94
2" x ¾"	—	—	29JE99
2" x 1"	1MNH7	—	29JF01
2" x 1¼"	—	—	29JF02
2" x 1½"	1MNH8	—	29JF03
2½" x 1"	—	—	29JF09
2½" x 1¼"	—	—	29JF10
2½" x 1½"	—	—	29JF11
2½" x 2"	1MNH9	—	29JF12
3" x 1¼"	—	—	29JF19
3" x 1½"	—	—	29JF20
3" x 2"	—	—	29JF21
3" x 2½"	1MNJ1	—	29JF22
Reducer Insert			
Socket Weld			
½" x ⅜"	—	—	29VF13
¾" x ¼"	—	—	29VF14
¾" x ⅜"	—	—	29VF15
¾" x ½"	—	—	29VF16
1" x ½"	—	—	29VF17
1" x ¾"	—	—	29VF18
1¼" x ⅜"	—	—	29VF19
1¼" x ½"	—	—	29VF20
1¼" x ¾"	—	—	29VF21
1¼" x 1"	—	—	29VF22
1½" x ½"	—	—	29VF23
1½" x ¾"	—	—	29VF24
1½" x 1"	—	—	29VF25
1½" x 1¼"	—	—	29VF26
2" x ¾"	—	—	29VF28
2" x 1"	—	—	29VF29
2" x 1¼"	—	—	29VF30
2" x 1½"	—	—	29VF31
2½" x 2"	—	—	29VF32
Reducing Bushing			
Socket Weld			
1¼" x 1"	1MPA1	—	—

Pipe Size - Pipe Fitting	GA Black Forged Steel Item No.	GA Galvanized Forged Steel Item No.	ANVIL Black Forged Steel Item No.
Reducing Coupling			
FNPT			
4" x 1½"	—	—	29VC61
4" x 2"	—	—	29VC62
4" x 2½"	—	—	29VC63
4" x 3"	—	—	29VC64
Socket Weld			
½" x ¼"	—	—	29VF12
½" x ⅛"	—	—	29VE66
½" x ⅜"	—	—	29VE67
¾" x ½"	—	—	29VE68
1" x ½"	—	—	29VE69
1" x ¾"	—	—	29VE70
1¼" x ½"	—	—	29VE71
1¼" x 1"	—	—	29VE72
1½" x ½"	—	—	29VE73
1½" x ¾"	—	—	29VE74
1½" x 1"	—	—	29VE75
1½" x 1¼"	—	—	29VE76
2" x 1"	—	—	29VE78
2" x 1¼"	—	—	29VE79
2" x 1½"	—	—	29VE80
2½" x 1"	—	—	29VE86
2½" x 1¼"	—	—	29VE87
2½" x 1½"	—	—	29VE88
2½" x 2"	—	—	29VE89
3" x 1¼"	—	—	29VE96
3" x 1½"	—	—	29VE97
3" x 2"	—	—	29VE98
3" x 2½"	—	—	29VE99
4" x 1½"	—	—	29VF08
4" x 2"	—	—	29VF09
4" x 2½"	—	—	29VF10
4" x 3"	—	—	29VF11
Reducing Tees (run x run x outlet)			
FNPT			
¾" x ¾" x ¼"	—	—	29JE18
¾" x ¾" x ½"	—	—	29JE19
1" x 1" x ½"	—	—	29JE20
1" x 1" x ¾"	—	—	29JE21
1¼" x 1¼" x ½"	—	—	29JE22
1½" x 1½" x ¾"	—	—	29JE24
1½" x 1½" x 1"	—	—	29JE25
1½" x 1½" x 1¼"	—	—	29JE26
2" x 2" x ½"	—	—	29JE28
2" x 2" x ¾"	—	—	29JE27
2" x 2" x 1"	—	—	29JE29
2" x 2" x 1½"	—	—	29JE30
Round Head Plug			
MNPT			
⅛"	—	—	29VD02
¼"	—	—	29VD03
⅜"	—	—	29VD04
½"	—	—	29VD05
¾"	—	—	29VD06
1"	—	—	29VD07
1¼"	—	—	29VD08
1½"	—	—	29VD09
2"	—	—	29VD10
Square Head Plug			
MNPT			
⅛"	—	—	29VC77
¼"	—	—	29VC78
⅜"	—	—	29VC79
1¼"	—	—	29VC83
2"	—	—	29VC85
2½"	—	—	29VC86
3"	—	—	29VC87
4"	—	—	29VC88

Pipe Size - Pipe Fitting	GA Black Forged Steel Item No.	GA Galvanized Forged Steel Item No.	ANVIL Black Forged Steel Item No.
Street Elbow, 90°			
FNPT x MNPT			
⅛"	—	—	29JD78
¼"	—	1MPD2	29JD79
⅜"	1MMV5 †	—	29JD80
½"	1MMV6 †	—	29JD81
¾"	1MMV7 †	—	29JD82
1"	1MMV8 †	1MPD6 †	29JD83
1¼"	1MMV9 †	—	29JD84
1½"	1MMW1 †	—	29JD85
2"	1MMW2 †	—	29JD86
Tees			
FNPT			
⅛"	1MMX6	—	29JE06
¼"	1MMX7	—	29JE07
⅜"	1MMX8	—	29JE08
½"	1MMX9	1MPF2	29JE09
¾"	1MMY1	1MPF3	29JE10
1"	1MMY2	1MPF4	29JE11
1¼"	1MMY3	—	29JE12
1½"	1MMY4	1MPF6	29JE13
2"	1MMY5	1MPF7	29JE14
2½"	1MMY6	—	29JE15
3"	—	—	29JE16
4"	—	—	29JE17
Socket Weld			
⅛"	—	—	29VE14
¼"	—	—	29VE15
⅜"	—	—	29VE16
½"	—	—	29VE17
¾"	—	—	29VE18
1"	1MNR3	—	29VE19
1¼"	—	—	29VE20
1½"	1MNR5	—	29VE21
2"	1MNR6	—	29VE22
2½"	1MNR7	—	29VE23
3"	1MNR8	—	29VE24
4"	—	—	29VE25
Threaded Union			
FNPT			
½"	—	—	29VD80
¾"	—	—	29VD81
1"	—	—	29VD82
1¼"	—	—	29VD83
1½"	—	—	29VD84
2"	—	—	29VD85
2½"	—	—	29VD86
3"	—	—	29VD87
4"	—	—	29VD88
Union			
FNPT			
⅛"	1MNC6	—	29VD69
¼"	1MNC7	—	29VD70
⅜"	1MNC8	—	29VD71
½"	1MNC9	1MPJ8	29VD72
¾"	1MND1	1MPJ9	29VD73
1"	1MND2	1MPK1	29VD74
1¼"	1MND3	1MPK2	29VD75
1½"	1MND4	1MPK3	29VD76
2"	1MND5	1MPK4	29VD77
2½"	1MND6	—	29VD78
3"	—	—	29VD79
Socket Weld			
¼"	—	—	29VF33
⅜"	—	—	29VF34
½"	1MNU4	—	29VF35
¾"	1MNU5	—	29VF36
1"	1MNU6	—	29VF37
1¼"	1MNU7	—	29VF38
1½"	1MNU8	—	29VF39
2"	1MNU9	—	29VF40
2½"	1MNV1	—	29VF41
3"	1MNV2	—	29VF42

† Not recommended for pressure above 600 psi.

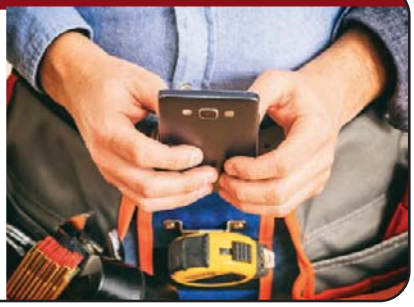
DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store

GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



WELDBEND

Carbon Steel Flanges

- Temp. range: -20° to 100°F

Suitable for use in chemical refineries, fertilizer and petrochemical plants, and in gas, oil, and water transmission systems. Also suitable for use in LNG plants, nuclear power plants, and in thermal power stations. Flanges meet ASME B16.5.







Pipe Size - Pipe Fitting	Lap Joint-Slips Over Stub Weld Max. Pressure	Lap Joint-Slips Over Stub Weld Item No.	Slip On Raise Face-Filler Weld Max. Pressure	Slip On Raise Face-Filler Weld Item No.	Threaded Raise Face-Threaded On Max. Pressure	Threaded Raise Face-Threaded On Item No.	Flange-Lap Joint Max. Pressure	Flange-Lap Joint Item No.
Class 150								
½"	285 psi	**30WH19**	285 psi	**30WG53**	285 psi	**30WH06**	740 psi	**30WJ20**
¾"	285 psi	**30WH20**	285 psi	**30WG54**	285 psi	**30WH07**	740 psi	**30WJ21**
1"	285 psi	**30WH21**	285 psi	**30WG55**	285 psi	**30WH08**	740 psi	**30WJ22**
1¼"	285 psi	**30WH22**	285 psi	**30WG56**	285 psi	**30WH09**	740 psi	**30WJ23**
1½"	285 psi	**30WH23**	285 psi	**30WG57**	285 psi	**30WH10**	—	—
1½"	740 psi	**30WJ24**	—	—	—	—	—	—
2"	285 psi	**30WH24**	285 psi	**30WG58**	285 psi	**30WH11**	740 psi	**30WJ25**
2½"	285 psi	**30WH25**	285 psi	**30WG59**	285 psi	**30WH12**	740 psi	**30WJ26**
3"	285 psi	**30WH26**	285 psi	**30WG60**	285 psi	**30WH13**	740 psi	**30WJ27**
3½"	285 psi	**30WH27**	285 psi	**30WG61**	285 psi	**30WH14**	740 psi	**30WJ28**
4"	285 psi	**30WH28**	285 psi	**30WG62**	285 psi	**30WH15**	740 psi	**30WJ29**
5"	285 psi	**30WH29**	285 psi	**30WG63**	285 psi	**30WH16**	740 psi	**30WJ30**
6"	285 psi	**30WH30**	285 psi	**30WG64**	285 psi	**30WH17**	740 psi	**30WJ31**
8"	285 psi	**30WH31**	285 psi	**30WG65**	285 psi	**30WH18**	740 psi	**30WJ32**

Pipe Size - Pipe Fitting	Max. Pressure	Blind Raised Face Flange-Bolted Item No.
Class 150		
½"	285 psi	**30WG92**
½"	740 psi	**30WH93**
¾"	285 psi	**30WG93**
¾"	740 psi	**30WH94**
1"	285 psi	**30WG94**
1"	740 psi	**30WH95**
1¼"	285 psi	**30WG95**
1¼"	740 psi	**30WH96**
1½"	285 psi	**30WG96**
1½"	740 psi	**30WH97**
2"	285 psi	**30WG97**
2"	740 psi	**30WH98**
2½"	285 psi	**30WG98**
2½"	740 psi	**30WH99**
3"	285 psi	**30WG99**
3½"	285 psi	**30WH01**
3½"	740 psi	**30WJ02**
4"	285 psi	**30WH02**
5"	285 psi	**30WH03**
5"	740 psi	**30WJ04**
6"	285 psi	**30WH04**
6"	740 psi	**30WJ05**
8"	285 psi	**30WH05**
8"	740 psi	**30WJ06**
Class 300		
3"	740 psi	**30WJ01**
4"	740 psi	**30WJ03**

Pipe Size - Pipe Fitting	Max. Pressure	Weldneck Raise Face-Circumferential Weld at Neck Item No.
Class 150		
½"	285 psi	**30WG66**
¾"	285 psi	**30WG67**
1"	285 psi	**30WG68**
1¼"	285 psi	**30WG69**
1½"	285 psi	**30WG70**
2"	285 psi	**30WG71**
2½"	285 psi	**30WG72**
3"	285 psi	**30WG73**
3½"	285 psi	**30WG74**
4"	285 psi	**30WG75**
5"	285 psi	**30WG76**
6"	285 psi	**30WG77**
8"	285 psi	**30WG78**
Class Extra Strong 150		
½"	285 psi	**30WG79**
¾"	285 psi	**30WG80**
1"	285 psi	**30WG81**
1¼"	285 psi	**30WG82**
1½"	285 psi	**30WG83**
2"	285 psi	**30WG84**
2½"	285 psi	**30WG85**
3"	285 psi	**30WG86**
3½"	285 psi	**30WG87**
4"	285 psi	**30WG88**
5"	285 psi	**30WG89**
6"	285 psi	**30WG90**
8"	285 psi	**30WG91**



Pipe Size - Pipe Fitting	Raised Face Flange Socket Weld Max. Pressure	Socket Weld Item No.	Slip On Max. Pressure	Slip On Item No.	Threaded Max. Pressure	Threaded Item No.
Class 150						
½"	—	—	740 psi	**30WH54**	740 psi	**30WJ07**
¾"	285 psi	**30WH33**	740 psi	**30WH55**	740 psi	**30WJ08**
1"	285 psi	**30WH34**	740 psi	**30WH56**	740 psi	**30WJ09**
1¼"	285 psi	**30WH35**	740 psi	**30WH57**	740 psi	**30WJ10**
1½"	285 psi	**30WH36**	740 psi	**30WH58**	740 psi	**30WJ11**
2"	285 psi	**30WH37**	740 psi	**30WH59**	740 psi	**30WJ12**
2½"	285 psi	**30WH38**	740 psi	**30WH60**	740 psi	**30WJ13**
3"	285 psi	**30WH39**	740 psi	**30WH61**	740 psi	**30WJ14**
3½"	—	—	740 psi	**30WH62**	740 psi	**30WJ15**
4"	285 psi	**30WH40**	740 psi	**30WH63**	740 psi	**30WJ16**
5"	—	—	740 psi	**30WH64**	740 psi	**30WJ17**
6"	—	—	—	—	740 psi	**30WJ18**
8"	285 psi	**30WH42**	740 psi	**30WH66**	740 psi	**30WJ19**
Class Extra Strong 150						
½"	285 psi	**30WH43**	—	—	—	—
¾"	285 psi	**30WH44**	—	—	—	—
1¼"	285 psi	**30WH46**	—	—	—	—
1½"	285 psi	**30WH47**	—	—	—	—
2"	285 psi	**30WH48**	—	—	—	—
2½"	285 psi	**30WH49**	—	—	—	—
3"	285 psi	**30WH50**	—	—	—	—
4"	285 psi	**30WH51**	—	—	—	—
6"	285 psi	**30WH52**	—	—	—	—
8"	285 psi	**30WH53**	—	—	—	—



Pipe Size - Pipe Fitting	Raised Face Flange Socket Weld Max. Pressure	Socket Weld Item No.	Weld Neck Max. Pressure	Weld Neck Item No.
Class 300				
½"	740 psi	**30WJ33**	740 psi	**30WH67**
¾"	740 psi	**30WJ34**	740 psi	**30WH68**
1"	740 psi	**30WJ35**	740 psi	**30WH69**
1¼"	740 psi	**30WJ36**	740 psi	**30WH70**
1½"	740 psi	**30WJ37**	740 psi	**30WH71**
2"	740 psi	**30WJ38**	740 psi	**30WH72**
2½"	740 psi	**30WJ39**	740 psi	**30WH73**
3"	740 psi	**30WJ40**	740 psi	**30WH74**
4"	740 psi	**30WJ41**	740 psi	**30WH76**
5"	740 psi	**30WJ42**	740 psi	**30WH77**
6"	—	—	740 psi	**30WH78**
8"	—	—	740 psi	**30WH79**
Class Extra Strong 300				
½"	740 psi	**30WJ43**	740 psi	**30WH80**
¾"	740 psi	**30WJ44**	740 psi	**30WH81**
1"	740 psi	**30WJ45**	740 psi	**30WH82**
1¼"	740 psi	**30WJ46**	740 psi	**30WH83**
1½"	740 psi	**30WJ47**	740 psi	**30WH84**
2"	740 psi	**30WJ48**	740 psi	**30WH85**
2½"	740 psi	**30WJ49**	740 psi	**30WH86**
3"	740 psi	**30WJ50**	740 psi	**30WH87**
3½"	—	—	740 psi	**30WH88**
4"	740 psi	**30WJ51**	740 psi	**30WH89**
5"	740 psi	**30WJ52**	740 psi	**30WH90**
6"	—	—	740 psi	**30WH91**
8"	—	—	740 psi	**30WH92**

Carbon Steel Fittings

WELDBEND

- Temp. range: -20° to 650°F

Ideal for use in for use in petrochemical plants, chemical refineries, fertilizer plants and in water, oil, and gas transmission systems. Also suitable for use in thermal power stations, nuclear power plants, and in LNG plants. Fittings meet ASME B16.9.

Concentric/ Eccentric Reducer



Pipe Size - Pipe Fitting	Max. Pressure	Concentric Reducer Item No.	Eccentric Reducer Item No.
Buttweld			
Class STD			
¾" x ½"	4065 psi	**30WE39**	**30WF46**
1" x ½"	3800 psi	**30WE40**	**30WF47**
1" x ¾"	3800 psi	**30WE41**	**30WF48**
1¼" x ½"	3124 psi	**30WE42**	**30WF49**
1¼" x ¾"	3124 psi	**30WE43**	**30WF50**
1¼" x 1"	3124 psi	**30WE44**	**30WF51**
1½" x ½"	2806 psi	**30WE45**	**30WF52**
1½" x ¾"	2806 psi	**30WE46**	**30WF53**
1½" x 1"	2806 psi	**30WE47**	**30WF54**
1½" x 1¼"	2806 psi	**30WE48**	**30WF55**
2" x ½"	2360 psi	**30WE49**	**30WF56**
2" x ¾"	2360 psi	**30WE50**	**30WF57**
2" x 1"	2360 psi	**30WE51**	**30WF58**
2" x 1¼"	2360 psi	**30WE52**	**30WF59**
2" x 1½"	2360 psi	**30WE53**	**30WF60**
2½" x ¾"	2583 psi	**30WE54**	**30WF61**
2½" x 1"	2583 psi	**30WE55**	**30WF62**
2½" x 1¼"	2583 psi	**30WE56**	**30WF63**
2½" x 1½"	2583 psi	**30WE57**	**30WF64**
2½" x 2"	2583 psi	**30WE58**	**30WF65**

Pipe Size - Pipe Fitting	Max. Pressure	Concentric Reducer Item No.	Eccentric Reducer Item No.
3" x 1"	2240 psi	**30WE59**	**30WF66**
3" x 1¼"	2240 psi	**30WE60**	**30WF67**
3" x 1½"	2240 psi	**30WE61**	**30WF68**
3" x 2"	2240 psi	**30WE62**	**30WF69**
3" x 2½"	2240 psi	**30WE63**	**30WF70**
3½" x 1¼"	2041 psi	**30WE64**	**30WF71**
3½" x 1½"	2041 psi	**30WE65**	**30WF72**
3½" x 2"	2041 psi	**30WE66**	**30WF73**
3½" x 2½"	2041 psi	**30WE67**	**30WF74**
3½" x 3"	2041 psi	**30WE68**	**30WF75**
4" x 1"	1895 psi	**30WE69**	**30WF76**
4" x 1¼"	1895 psi	**30WE70**	**30WF77**
4" x 1½"	1895 psi	**30WE71**	**30WF78**
4" x 2"	1895 psi	**30WE72**	**30WF79**
4" x 2½"	1895 psi	**30WE73**	**30WF80**
4" x 3"	1895 psi	**30WE74**	**30WF81**
4" x 3½"	1895 psi	**30WE75**	**30WF82**
5" x 2"	1659 psi	**30WE76**	**30WF83**
5" x 2½"	1659 psi	**30WE77**	**30WF84**
5" x 3"	1659 psi	**30WE78**	**30WF85**
5" x 3½"	1659 psi	**30WE79**	**30WF86**
5" x 4"	1659 psi	**30WE80**	**30WF87**

Pipe Size - Pipe Fitting	Max. Pressure	Concentric Reducer Item No.	Eccentric Reducer Item No.
6" x 2"	1506 psi	**30WE81**	**30WF88**
6" x 2½"	1506 psi	**30WE82**	**30WF89**
6" x 3"	1506 psi	**30WE83**	**30WF90**
6" x 3½"	1506 psi	**30WE84**	**30WF91**
6" x 4"	1506 psi	**30WE85**	**30WF92**
6" x 5"	1506 psi	**30WE86**	**30WF93**
8" x 3"	1324 psi	**30WE87**	**30WF94**
8" x 3½"	1324 psi	**30WE88**	**30WF95**
8" x 4"	1324 psi	**30WE89**	**30WF96**
8" x 5"	1324 psi	**30WE90**	**30WF97**
8" x 6"	1324 psi	**30WE91**	**30WF98**
Class XS			
¾" x ½"	5709 psi	**30WE92**	**30WF99**
1" x ½"	5258 psi	**30WE93**	**30WG01**
1" x ¾"	5258 psi	**30WE94**	**30WG02**
1¼" x ½"	4373 psi	**30WE95**	**30WG03**
1¼" x ¾"	4373 psi	**30WE96**	**30WG04**
1¼" x 1"	3969 psi	**30WE97**	**30WG05**
1½" x ½"	3969 psi	**30WE98**	**30WG06**
1½" x ¾"	3969 psi	**30WE99**	**30WG07**
1½" x 1"	3969 psi	**30WF01**	**30WG08**
1½" x 1¼"	3969 psi	**30WF02**	**30WG09**
2" x ½"	3422 psi	**30WF03**	**30WG10**
2" x ¾"	3422 psi	**30WF04**	**30WG11**
2" x 1"	3422 psi	**30WF05**	**30WG12**
2" x 1¼"	3422 psi	**30WF06**	**30WG13**
2" x 1½"	3422 psi	**30WF07**	**30WG14**
2½" x ¾"	3591 psi	**30WF08**	**30WG15**
2½" x 1"	3591 psi	**30WF09**	**30WG16**
2½" x 1¼"	3591 psi	**30WF10**	**30WG17**
2½" x 1½"	3591 psi	**30WF11**	**30WG18**
2½" x 2"	3591 psi	**30WF12**	**30WG19**
3" x 1"	3178 psi	**30WF13**	**30WG20**

Pipe Size - Pipe Fitting	Max. Pressure	Concentric Reducer Item No.	Eccentric Reducer Item No.
3" x 1¼"	3178 psi	**30WF14**	**30WG21**
3" x 1½"	3178 psi	**30WF15**	**30WG22**
3" x 2"	3178 psi	**30WF16**	**30WG23**
3" x 2½"	3178 psi	**30WF17**	**30WG24**
3½" x 1¼"	2932 psi	**30WF18**	**30WG25**
3½" x 1½"	2932 psi	**30WF19**	**30WG26**
3½" x 2"	2932 psi	**30WF20**	**30WG27**
3½" x 2½"	2932 psi	**30WF21**	**30WG28**
3½" x 3"	2932 psi	**30WF22**	**30WG29**
4" x 1"	2751 psi	**30WF23**	**30WG30**
4" x 1¼"	2751 psi	**30WF24**	**30WG31**
4" x 1½"	2751 psi	**30WF25**	**30WG32**
4" x 2"	2751 psi	**30WF26**	**30WG33**
4" x 2½"	2751 psi	**30WF27**	**30WG34**
4" x 3"	2751 psi	**30WF28**	**30WG35**
4" x 3½"	2751 psi	**30WF29**	**30WG36**
5" x 2"	2459 psi	**30WF30**	**30WG37**
5" x 2½"	2459 psi	**30WF31**	**30WG38**
5" x 3"	2459 psi	**30WF32**	**30WG39**
5" x 3½"	2459 psi	**30WF33**	**30WG40**
5" x 4"	2459 psi	**30WF34**	**30WG41**
6" x 2"	2374 psi	**30WF35**	**30WG42**
6" x 2½"	2374 psi	**30WF36**	**30WG43**
6" x 3"	2374 psi	**30WF37**	**30WG44**
6" x 3½"	2374 psi	**30WF38**	**30WG45**
6" x 4"	2374 psi	**30WF39**	**30WG46**
6" x 5"	2374 psi	**30WF40**	**30WG47**
8" x 3"	2097 psi	**30WF41**	**30WG48**
8" x 3½"	2097 psi	**30WF42**	**30WG49**
8" x 4"	2097 psi	**30WF43**	**30WG50**
8" x 5"	2097 psi	**30WF44**	**30WG51**
8" x 6"	2097 psi	**30WF45**	**30WG52**

CONTINUED

CONTINUED

WELDBEND

Carbon Steel Fittings



Reducing Tee

Pipe Size - Pipe Fitting	Max. Pressure	Reducing Tee* Item No.
Buttweld		
Class STD		
¾" x ¾" x ½"	4065 psi	**30WD06**
1" x 1" x ½"	3800 psi	**30WD07**
1" x 1" x ¾"	3800 psi	**30WD08**
1¼" x 1¼" x ½"	3124 psi	**30WD09**
1¼" x 1¼" x ¾"	3124 psi	**30WD10**
1¼" x 1¼" x 1"	3124 psi	**30WD11**
1½" x 1½" x ½"	2806 psi	**30WD12**
1½" x 1½" x ¾"	2806 psi	**30WD13**
1½" x 1½" x 1"	2806 psi	**30WD14**
1½" x 1½" x 1¼"	2806 psi	**30WD15**
2" x 2" x ½"	2360 psi	**30WD16**
2" x 2" x ¾"	2360 psi	**30WD17**
2" x 2" x 1"	2360 psi	**30WD18**
2" x 2" x 1¼"	2360 psi	**30WD19**
2" x 2" x 1½"	2360 psi	**30WD20**
2½" x 2½" x ¾"	2583 psi	**30WD21**
2½" x 2½" x 1"	2583 psi	**30WD22**
2½" x 2½" x 1¼"	2583 psi	**30WD23**
2½" x 2½" x 1½"	2583 psi	**30WD24**
2½" x 2½" x 2"	2583 psi	**30WD25**
3" x 3" x 1"	2240 psi	**30WD26**
3" x 3" x 1¼"	2240 psi	**30WD27**
3" x 3" x 1½"	2240 psi	**30WD28**
3" x 3" x 2"	2240 psi	**30WD29**
3" x 3" x 2½"	2240 psi	**30WD30**
3½" x 3½" x 1¼"	2041 psi	**30WD31**
3½" x 3½" x 1½"	2041 psi	**30WD32**
3½" x 3½" x 2"	2041 psi	**30WD33**
3½" x 3½" x 2½"	2041 psi	**30WD34**
3½" x 3½" x 3"	2041 psi	**30WD35**
4" x 4" x 1"	1895 psi	**30WD36**
4" x 4" x 1¼"	1895 psi	**30WD37**
4" x 4" x 1½"	1895 psi	**30WD38**
4" x 4" x 2"	1895 psi	**30WD39**
4" x 4" x 2½"	1895 psi	**30WD40**
4" x 4" x 3"	1895 psi	**30WD41**
4" x 4" x 3½"	1895 psi	**30WD42**
5" x 5" x 2"	1659 psi	**30WD43**
5" x 5" x 2½"	1659 psi	**30WD44**
5" x 5" x 3"	1659 psi	**30WD45**
5" x 5" x 3½"	1659 psi	**30WD46**
5" x 5" x 4"	1659 psi	**30WD47**
6" x 6" x 2"	1506 psi	**30WD48**
6" x 6" x 3½"	1506 psi	**30WD49**
6" x 6" x 3"	1506 psi	**30WD50**
6" x 6" x 3½"	1506 psi	**30WD51**
6" x 6" x 4"	1506 psi	**30WD52**
6" x 6" x 5"	1506 psi	**30WD53**
8" x 8" x 3"	1324 psi	**30WD54**
8" x 8" x 3½"	1324 psi	**30WD55**
8" x 8" x 4"	1324 psi	**30WD56**
8" x 8" x 5"	1324 psi	**30WD57**
8" x 8" x 6"	1324 psi	**30WD58**
Class XS		
¾" x ¾" x ½"	5709 psi	**30WD59**
1" x 1" x ½"	5258 psi	**30WD60**
1" x 1" x ¾"	5258 psi	**30WD61**
1¼" x 1¼" x ½"	4373 psi	**30WD62**
1¼" x 1¼" x ¾"	4373 psi	**30WD63**
1¼" x 1¼" x 1"	4373 psi	**30WD64**
1½" x 1½" x ½"	3969 psi	**30WD65**
1½" x 1½" x ¾"	3969 psi	**30WD66**
1½" x 1½" x 1"	3969 psi	**30WD67**
1½" x 1½" x 1¼"	3969 psi	**30WD68**
2" x 2" x ½"	3422 psi	**30WD69**
2" x 2" x ¾"	3422 psi	**30WD70**
2" x 2" x 1"	3422 psi	**30WD71**
2" x 2" x 1¼"	3422 psi	**30WD72**
2" x 2" x 1½"	3422 psi	**30WD73**
2½" x 2½" x ¾"	3591 psi	**30WD74**
2½" x 2½" x 1"	3591 psi	**30WD75**
2½" x 2½" x 1¼"	3591 psi	**30WD76**
2½" x 2½" x 1½"	3591 psi	**30WD77**
2½" x 2½" x 2"	3591 psi	**30WD78**
3" x 3" x 1"	3178 psi	**30WD79**
3" x 3" x 1¼"	3178 psi	**30WD80**
3" x 3" x 1½"	3178 psi	**30WD81**
3" x 3" x 2"	3178 psi	**30WD82**
3" x 3" x 2½"	3178 psi	**30WD83**
3½" x 3½" x 1¼"	2932 psi	**30WD84**
3½" x 3½" x 1½"	2932 psi	**30WD85**
3½" x 3½" x 2"	2932 psi	**30WD86**
3½" x 3½" x 2½"	2932 psi	**30WD87**
3½" x 3½" x 3"	2932 psi	**30WD88**
4" x 4" x 1"	2751 psi	**30WD89**
4" x 4" x 1¼"	2751 psi	**30WD90**
4" x 4" x 1½"	2751 psi	**30WD91**
4" x 4" x 2"	2751 psi	**30WD92**
4" x 4" x 2½"	2751 psi	**30WD93**
4" x 4" x 3"	2751 psi	**30WD94**
4" x 4" x 3½"	2751 psi	**30WD95**
5" x 5" x 2"	2459 psi	**30WD96**
5" x 5" x 2½"	2459 psi	**30WD97**
5" x 5" x 3"	2459 psi	**30WD98**
5" x 5" x 3½"	2459 psi	**30WD99**
5" x 5" x 4"	2459 psi	**30WE01**
6" x 6" x 2"	2374 psi	**30WE02**
6" x 6" x 2½"	2374 psi	**30WE03**
6" x 6" x 3"	2374 psi	**30WE04**
6" x 6" x 3½"	2374 psi	**30WE05**
6" x 6" x 4"	2374 psi	**30WE06**
6" x 6" x 5"	2374 psi	**30WE07**
8" x 8" x 3"	2097 psi	**30WE08**
8" x 8" x 3½"	2097 psi	**30WE09**
8" x 8" x 4"	2097 psi	**30WE10**
8" x 8" x 5"	2097 psi	**30WE11**
8" x 8" x 6"	2097 psi	**30WE12**

Tees read: run x run x outlet.





Pipe Size - Pipe Fitting	Max. Pressure	Cap Item No.	Long Radius Elbow 45° Item No.	Long Radius Elbow 90° Item No.	Short Radius Elbow 90° Item No.	Straight Tee Item No.
Buttweld						
Class STD						
½"	4989 psi	**30WE13**	**30WC53**	**30WC05**	—	**30WC79**
¾"	4065 psi	**30WE14**	**30WC54**	**30WC06**	—	**30WC80**
1"	3800 psi	**30WE15**	**30WC55**	**30WC07**	**30WC31**	**30WC81**
1¼"	3124 psi	**30WE16**	**30WC56**	**30WC08**	**30WC32**	**30WC82**
1½"	2806 psi	**30WE17**	**30WC57**	**30WC09**	**30WC33**	**30WC83**
2"	2360 psi	**30WE18**	**30WC58**	**30WC10**	**30WC34**	**30WC84**
2½"	2583 psi	**30WE19**	**30WC59**	**30WC11**	**30WC35**	**30WC85**
3"	2240 psi	**30WE20**	**30WC60**	**30WC12**	**30WC36**	**30WC86**
3½"	2041 psi	**30WE21**	**30WC61**	**30WC13**	**30WC37**	**30WC87**
4"	1895 psi	**30WE22**	**30WC62**	**30WC14**	**30WC38**	**30WC88**
5"	1659 psi	**30WE23**	**30WC63**	**30WC15**	**30WC39**	**30WC89**
6"	1506 psi	**30WE24**	**30WC64**	**30WC16**	**30WC40**	**30WC90**
8"	1324 psi	**30WE25**	**30WC65**	**30WC17**	**30WC41**	**30WC91**
Class XS						
½"	6942 psi	**30WE26**	**30WC66**	**30WC18**	—	**30WC92**
¾"	5709 psi	**30WE27**	**30WC67**	**30WC19**	—	**30WC93**
1"	5258 psi	**30WE28**	**30WC68**	**30WC20**	**30WC42**	**30WC94**
1¼"	4373 psi	**30WE29**	**30WC69**	**30WC21**	**30WC43**	**30WC95**
1½"	3969 psi	**30WE30**	**30WC70**	**30WC22**	**30WC44**	**30WC96**
2"	3422 psi	**30WE31**	**30WC71**	**30WC23**	**30WC45**	**30WC97**
2½"	3591 psi	**30WE32**	**30WC72**	**30WC24**	**30WC46**	**30WC98**
3"	3178 psi	**30WE33**	**30WC73**	**30WC25**	**30WC47**	**30WC99**
3½"	2932 psi	**30WE34**	**30WC74**	**30WC26**	**30WC48**	**30WD01**
4"	2751 psi	**30WE35**	**30WC75**	**30WC27**	**30WC49**	**30WD02**
5"	2459 psi	**30WE36**	**30WC76**	**30WC28**	**30WC50**	**30WD03**
6"	2374 psi	**30WE37**	**30WC77**	**30WC29**	**30WC51**	**30WD04**
8"	2097 psi	**30WE38**	**30WC78**	**30WC30**	**30WC52**	**30WD05**

GRUVLOK ANVIL

Ductile-Iron Grooved Couplings, Flanges, Gaskets, and Lubricants

Couplings and flanges meet applicable requirements of ASME B31.1, B31.9, and NFPA 13. Gasket material properties as designated in accordance with ASTM D2000.

Note: EPDM Gaskets not for use in petroleum applications.

Standard and Rigidlok® Couplings—Flexible, grooved-end pipe joints help reduce noise and vibration transmission. Rigidlok® couplings separate pipe ends and guide the coupling into position as bolts are tightened.

Flanges—Connect Class 125 or Class 150 flanged components to grooved piping systems. Hinged, interlocking halves are drawn together by a latch bolt to ease assembly. Gasket and anti-rotation tines provide a secure, leak-tight seal on both the pipe and mating flange.

Roughneck® Couplings—Innovative gripper action provides a reliable and effective method for joining pipe in manifold piping, mining, oil service, and process piping applications. Not for use on steel pipe with a hardness greater than 150 Brinell, cast-iron, HDPE, plastics, stainless steel, or other brittle pipes. Meets the material requirements of ASTM A536 or A47. UL Listed.

Flange and Roughneck® Gaskets—EPDM Grade E gaskets for use with alkalies, dilute acids, salts, and water. Not for use with gases, hydrocarbons, and oils. NSF certified.

Standard Coupling Gaskets—EPDM Grade EP gaskets are for use with alkalies, dilute acids, salts, and water. Not for use with gases, hydrocarbons, and oils. Nitrile Grade T gaskets are for use with mineral oils, petroleum products, vegetable oils, and air contaminated with petroleum oils. Not for use in hot water applications. NSF Certified.

Silicone Lubricants—Waterproof and remain effective at extreme temperatures. Permit pipe ends to reposition themselves. Nontoxic and not petroleum based.



No. 2XEU4



No. 46KK80



No. 12G540



No. 2XFE1

Nom. Size	Max. Pressure	Max. Load	Pipe End Separation	Bolt Size	Brand	Item No.
Standard Couplings, Temp. Range: -40° to 250°F						
2 in	1000 psi	4,430 lb	0 in to 1/8 in	½ in x 3 in	Gruvlok	**2XET1**
2½ in	1000 psi	6,492 lb	0 in to 1/8 in	½ in x 3 in	Gruvlok	**2XET2**
3 in	1000 psi	9,621 lb	0 in to 1/8 in	½ in x 3 in	Gruvlok	**2XET3**
4 in	1000 psi	11,928 lb	0 in to 1/4 in	⅝ in x 3½ in	Gruvlok	**2XET4**
6 in	1000 psi	34,472 lb	0 in to 1/4 in	¾ in x 4½ in	Gruvlok	**2XET5**
8 in	800 psi	46,741 lb	0 in to 1/4 in	⅞ in x 5½ in	Gruvlok	**2XET6**
Rigidlok(R) Couplings, Temp. Range: -40° to 250°F						
2 in	750 psi	3,323 lb	0 in to 1/8 in	⅜ in x 2½ in	Gruvlok	**2XET7**
2½ in	750 psi	4,869 lb	0 in to 1/8 in	⅜ in x 2½ in	Gruvlok	**2XET8**
3 in	750 psi	7,216 lb	0 in to 1/8 in	½ in x 3 in	Gruvlok	**2XET9**
4 in	750 psi	11,928 lb	0 in to 1/4 in	½ in x 3 in	Gruvlok	**2XEU1**
6 in	750 psi	25,854 lb	0 in to 1/4 in	⅝ in x 3½ in	Gruvlok	**2XEU2**
8 in	600 psi	35,056 lb	0 in to 1/8 in	¾ in x 4½ in	Gruvlok	**2XEU3**
Flanges, Temp. Range: -40° to 230°F						
2 in	300 psi	1,329 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU4**
2½ in	300 psi	1,948 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU5**
3 in	300 psi	2,886 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU6**
4 in	300 psi	4,771 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU7**
6 in	300 psi	10,341 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU8**
8 in	300 psi	17,528 lb	—	⅜ in x 2¾ in	Gruvlok	**2XEU9**

Pipe Size - Pipe Fitting	Max. Pressure	Outside Dia.	Hex Size	Item No.
Anvil, Roughneck® Couplings for Plain-End Pipe, Temp. Range: -40° to 250°F				
2 in	750 psi	2 ⅜ in	⅝ in	**46KK65**
2½ in	600 psi	2 ⅞ in	⅝ in	**46KK66**
3 in	600 psi	3 ½ in	¾ in	**46KK67**
4 in	450 psi	4 ½ in	¾ in	**46KK68**
5 in	350 psi	5 ⁹⁄₁₆ in	⅞ in	**46KK69**
6 in	300 psi	6 ⅝ in	1 in	**46KK70**
7 in	300 psi	8 ⅝ in	⅛ in	**46KK71**

Size	Cam and Groove Gaskets, EPDM Item No.	Roughneck® Cam and Groove Gaskets, EPDM Item No.
Anvil, Flange and Roughneck® Gaskets		
2"	46KK80	46KK72
2½"	46KK81	46KK73
3"	46KK82	46KK74
4"	46KK83	46KK75
5"	46KK84	46KK76
6"	46KK85	46KK77
8"	46KK86	46KK78

Size	EPDM, Grade EP, Temp. Range: -40° to 250°F Item No.	Nitrile, Grade T, Temp. Range: -20° to 180°F Item No.
Gruvlok®, Standard Coupling Gaskets		
2 in	12G538	39A247
2 ½ in	12G539	39A248
3 in	12G540	39A249
4 in	12G541	39A250
6 in	12G542	39A251
8 in	12G543	39A252

Size	Item No.
Gruvlok® Silicone Lubricants, Temp. Range: -65° to 400°F	
10 oz.	**2XFE2**
2.2 lb.	**2XFE1**

GRUVLOK

Ductile-Iron Grooved Fittings and Clamps

- Clamp T fittings: max. pressure is 500 psi, temp. range is -40° to 230°F
- Ductile iron fittings: max. pressure is 1000 psi, except 8" are 800 psi; temp. range is limited by connecting gaskets

Fittings provide a reliable joint that resists external forces without special supports or expansion joints. Clamps attach at any location along the pipe to provide a quick and easy outlet that maintains a leaktight seal under both positive pressure and vacuum conditions. Can be used with water, diluted acids, alkali solutions, oil-free air, and other chemicals. Meet applicable requirements of ASME B31.1, B31.9, and NFPA 13.

Note: Not for use in petroleum applications.






Nom. Size	Elbow, 45° Item No.	Elbow, 90° Item No.	Tee* Item No.	Cap Item No.
Fittings				
2"	2XEV7	2XEV1	2XEW4	2XFC8
2½"	2XEV8	2XEV2	2XEW5	2XFE3
3"	2XEV9	2XEV3	2XEW6	2XFC9
4"	2XEW1	2XEV4	2XEW7	2XFD1
6"	2XEW2	2XEV5	2XEW8	2XFD2
8"	2XEW3	2XEV6	2XEW9	2XFD3






Nom. Size	Clamp with Grooved Branch Item No.
Clamps	
4" x 2"	2XEY3
4" x 2½"	2XEY4
4" x 3"	2XEY5
6" x 2"	2XEY6
6" x 2½"	2XEY7
6" x 3"	2XEY8
6" x 4"	2XEY9
8" x 2"	2XEZ1
8" x 2½"	2XEZ2
8" x 3"	2XEZ3
8" x 4"	2XEZ4

Nom. Size	Clamp with FNPT Branch Item No.
Clamps	
2" x 1½"	2XEZ5
2½" x 1½"	2XEZ6
3" x 1½"	2XEZ7
3" x 2"	2XEZ8
4" x 1½"	2XEZ9
4" x 2"	2XFA1
6" x 2"	2XFA2
6" x 2½"	2XFA3
8" x 2"	2XFA4
8" x 2½"	2XFA5

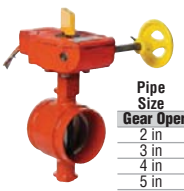
Nom. Size	Reducing Tee* Item No.
Fittings	
3" x 3" x 2"	2XEX1
3" x 3" x 2½"	2XEX5
4" x 4" x 2"	2XEX2
4" x 4" x 2½"	2XEX6
4" x 4" x 3"	2XEX7
6" x 6" x 2"	2XEX3
6" x 6" x 3"	2XEX8
6" x 6" x 4"	2XEX9
8" x 8" x 2"	2XEX4
8" x 8" x 4"	2XEY1
8" x 8" x 6"	2XEY2

Nom. Size	Concentric Reducer Item No.
Concentric Reducers	
2½" x 2"	2XFA6
3" x 2"	2XFA7
3" x 2½"	2XFA8
4" x 2"	2XFA9
4" x 2½"	2XFC1
4" x 3"	2XFC2
6" x 2"	2XFC3
6" x 3"	2XFC4
6" x 4"	2XFC5
8" x 4"	2XFC6
8" x 6"	2XFC7

** Tees read: run x run x outlet.*



Pipe Size	Bolt Circle Dia.	Item No.
Lever Handle		
2 in	3 in	2XFD4
2 ½ in	3 in	2XFD5
2 ½ in	—	3DVX7
3 in	3 in	2XFD6
4 in	3 in	2XFD7
6 in	3 in	2XFD8
8 in	5 in	2XFD9
8 in	—	3DVY3
10 in	—	3DVY4



Pipe Size	Item No.
Gear Operated Handle	
2 in	3DVX6
3 in	3DVX8
4 in	3DVX9
5 in	3DVY1
6 in	3DVY2

GRUVLOK

Ductile-Iron Grooved Butterfly Valves

- Max. pressure: 300 psi
- Temp. range: -40° to 230°F

Corrosion-resistant stainless steel stems have a secondary seal that provides a lifetime lubrication chamber. With EPDM liner and 4 bolt holes.

Note: Not for use in petroleum applications.

LEVER-OPERATED

Have lever handles; maintain a constant leak-tight stem seal regardless of disc position. Meet MSS SP-67, except Nos. 3DVX7, 3DVY3, and 3DVY4 are UL Listed and FM Approved.

GEAR-OPERATED

With 2 internal switches: 1 is wired for supervisory service; the other is for use as an auxiliary switch. Switches are rated for 11A at 125/150VAC; 0.5A at 125VDC; 0.25A at 250VDC. UL Listed; FM Approved.



Uniflex High-Pressure Steel Pipe Unions—Class 3000

- Max. pressure: 3000 psig CWP; 1500 psi saturated steam

Uniflex unions feature a leak-proof design that won't leak like regular pipe unions. Forged carbon-steel unions have a leaktight gasket, flat-face design, and FNPT connections. Suitable for hot oil, steam, and other process fluids in high-pressure/high-temperature manifold applications. Meet ASTM A105 and MSS SP-83.

Nicholson
A CIRCOR Energy Brand

Pipe Size - Pipe Fitting	Item No.
½"	2RUA3
¾"	2RUA4
1"	2RUA5
1¼"	2RUA6
1½"	2RUA7
2"	2RUA8

Carbon Steel Instrumentation Pipe Fittings

Parker

- Temp. range: -20° to 800°F

Elbows, tees, and crosses are machined from forgings; straight connectors are machined from bar stock. For process control and instrumentation connections in both gas and liquid service. Meet ANSI B31.1, B31.3, and B1.20.1.









Pipe Size - Pipe Fitting	Hex Coupling, FNPT Max. Pressure	Hex Coupling, FNPT Item No.	Elbow, 90°, MNPT Max. Pressure	Elbow, 90°, MNPT Item No.	Elbow, 90°, FNPT Max. Pressure	Elbow, 90°, FNPT Item No.	Street Elbow, 90°, MNPT Max. Pressure	Street Elbow, 90°, MNPT Item No.	Branch Tee, FNPT x FNPT x MNPT Max. Pressure	Branch Tee, FNPT x FNPT x MNPT Item No.	Tee, FNPT Max. Pressure	Tee, FNPT Item No.	Street Tee, FNPT x MNPT x FNPT Max. Pressure	Street Tee, FNPT x MNPT x FNPT Item No.
¼"	7000 psi	1DGD4	8000 psi	1DGG7	6000 psi	1DGH7	6000 psi	1DGJ9	6000 psi	1DGN9	6000 psi	1DGK9	6000 psi	1DGL9
⅜"	5600 psi	1DGD6	7600 psi	1DGG8	5300 psi	1DGH8	5300 psi	1DGK1	—	—	5300 psi	1DGL1	5300 psi	1DGN1
½"	5500 psi	1DGD9	6200 psi	1DGG9	4800 psi	1DGH9	4800 psi	1DGK2	4800 psi	1DGP2	4800 psi	1DGL2	4800 psi	1DGN2








Pipe Size - Pipe Fitting	Hex Head Plug, MNPT Max. Pressure	Hex Head Plug, MNPT Item No.	Hollow Hex Plug, MNPT Max. Pressure	Hollow Hex Plug, MNPT Item No.	Hex Nipple, MNPT Max. Pressure	Hex Nipple, MNPT Item No.
⅛"	9700 psi	1DGT7	9700 psi	1DGU7	—	—
¼"	8000 psi	1DGT8	8000 psi	1DGU8	8000 psi	1DGB3
⅜"	7600 psi	1DGT9	7600 psi	1DGU9	7600 psi	1DGB4
½" x ¼"	—	—	—	—	7000 psi	1DGB5
½"	7000 psi	1DGU1	—	—	7000 psi	1DGB6

Pipe Size - Pipe Fitting	Reducing Adapter, FNPT x MNPT Max. Pressure	Reducing Adapter, FNPT x MNPT Item No.	Hex Reducing Coupling, FNPT Max. Pressure	Hex Reducing Coupling, FNPT Item No.	Reducing Bushing, MNPT x FNPT Max. Pressure	Reducing Bushing, MNPT x FNPT Item No.
¼" x ⅛"	7000 psi	1DFZ2	7000 psi	1DGD3	6400 psi	1DGF4
⅜" x ⅛"	—	—	—	—	6800 psi	1DGF5
⅜" x ¼"	5600 psi	1DFZ3	5600 psi	1DGD5	5600 psi	1DGF6
½" x ¼"	5500 psi	1DFZ5	5500 psi	1DGD7	7000 psi	1DGF8
½" x ⅜"	5500 psi	1DFZ6	5500 psi	1DGD8	4900 psi	1DGF9

Industrial Pipe Fittings

304/L stainless steel resists corrosion, while 316/L stainless steel has more nickel for better corrosion resistance.

F11, F22, and F91 chrome moly are stronger than carbon steel and resist rupturing. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Penn Machine Since 1937



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Socket Weld Outlet FSW Item No.
304/304L Stainless Steel		
½"	3000	20XZ07
¾"	3000	20XZ08
1"	3000	20XZ09
1½"	3000	20XZ10
1½"	3000	20XZ11
2"	3000	20XZ12
2"	3000	20XZ13
316/316L Stainless Steel		
½"	3000	20XZ56
¾"	3000	20XZ57
1"	3000	20XZ58
1½"	3000	20XZ59
1½"	3000	20XZ60
2"	3000	20YC11
2"	3000	20YC12
F11 Chrome Moly Steel		
½"	3000	20XZ88
½"	6000	20YA11
¾"	3000	20XZ89
¾"	6000	20YA12
1"	3000	20XZ90
1"	6000	20YA13
1½"	3000	20XZ91
1½"	3000	20XZ92
1½"	6000	20YA14
1½"	6000	20YA15
2"	3000	20XZ93
2"	3000	20XZ94
2"	6000	20YA16
2"	6000	20YA17
F22 Chrome Moly Steel		
½"	3000	20YA33
½"	6000	20YA55
¾"	3000	20YA34
¾"	6000	20YA56
1"	3000	20YA35
1"	6000	20YA57
1½"	3000	20YA36
1½"	3000	20YA37
1½"	6000	20YA58
1½"	6000	20YA59
2"	3000	20YA38
2"	3000	20YA39
2"	6000	20YA60
2"	6000	20YA61
F91 Chrome Moly Steel		
½"	3000	20YA77
¾"	3000	20YA78
¾"	6000	20YA99
1"	3000	20YA79
1"	6000	20YC01
1½"	3000	20YA80
1½"	3000	20YA81
1½"	6000	20YC02
1½"	6000	20YC03
2"	3000	20YA82
2"	3000	20YA83
2"	6000	20YC04
2"	6000	20YC05
LF2 Low Temperature Steel		
½"	3000	20XY52
¾"	3000	20XY53
1"	3000	20XY54
1½"	3000	20XY55
1½"	3000	20XY56
2"	3000	20XY57
2"	3000	20XY58



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Tee FNPT Item No.	Tee FSW Item No.
304/304L Stainless Steel			
½"	3000	20XY81	20XY76
¾"	3000	20XY82	20XY77
1"	3000	20XY83	20XY78
1½"	3000	20XY84	20XY79
2"	3000	20XY85	20XY80
316/316L Stainless Steel			
½"	3000	20YC06	20XZ31
¾"	3000	20YC07	20XZ32
1"	3000	20YC08	20XZ33
1½"	3000	20YC09	20XZ34
2"	3000	20YC10	20XZ35
LF2 Low Temperature Steel			
½"	3000	20XY27	20XY22
¾"	3000	20XY28	20XY23
1"	3000	20XY29	20XY24
1½"	3000	20XY30	20XY25
2"	3000	20XY31	20XY26



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Tee FSW Item No.
F11 Chrome Moly Steel		
½"	3000	20XZ73
½"	6000	20YA01
¾"	3000	20XZ74
¾"	6000	20YA02
1"	3000	20XZ75
1"	6000	20YA03
1½"	3000	20XZ76
1½"	6000	20YA04
2"	3000	20XZ77
2"	6000	20YA05
F22 Chrome Moly Steel		
½"	3000	20YA23
½"	6000	20YA45
¾"	3000	20YA24
¾"	6000	20YA46
1"	3000	20YA25
1"	6000	20YA47
1½"	3000	20YA26
1½"	6000	20YA48
2"	6000	20YA49
2"	3000	20YA27
F91 Chrome Moly Steel		
½"	3000	20YA67
½"	6000	20YA89
¾"	3000	20YA68
¾"	6000	20YA90
1"	3000	20YA69
1"	6000	20YA91
1½"	3000	20YA70
1½"	6000	20YA92
2"	3000	20YA71
2"	6000	20YA93



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	45° Elbow FNPT Item No.	45° Elbow FSW Item No.
304/304L Stainless Steel			
½"	3000	20XY91	20XY86
¾"	3000	20XY92	20XY87
1"	3000	20XY93	20XY88
1½"	3000	20XY94	20XY89
2"	3000	20XY95	20XY90
316/316L Stainless Steel			
½"	3000	20XZ41	20XZ36
¾"	3000	20XZ42	20XZ37
1"	3000	20XZ43	20XZ38
1½"	3000	20XZ44	20XZ39
2"	3000	20XZ45	20XZ40
LF2 Low Temperature Steel			
½"	3000	20XY37	20XY32
¾"	3000	20XY38	20XY33
1"	3000	20XY39	20XY34
1½"	3000	20XY40	20XY35
2"	3000	20XY41	20XY36



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	90° Elbow FNPT Item No.	90° Elbow FSW Item No.
304/304L Stainless Steel			
½"	3000	20XY71	20XY66
¾"	3000	20XY72	20XY67
1"	3000	20XY73	20XY68
1½"	3000	20XY74	20XY69
2"	3000	20XY75	20XY70
316/316L Stainless Steel			
½"	3000	20XZ26	20XZ21
¾"	3000	20XZ27	20XZ22
1"	3000	20XZ28	20XZ23
1½"	3000	20XZ29	20XZ24
2"	3000	20XZ30	20XZ25
LF2 Low Temperature Steel			
½"	3000	20XY17	20XY12
¾"	3000	20XY18	20XY13
1"	3000	20XY19	20XY14
1½"	3000	20XY20	20XY15
2"	3000	20XY21	20XY16



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	90° Elbow FSW Item No.
F11 Chrome Moly Steel		
½"	3000	20XZ68
½"	6000	20XZ95
¾"	3000	20XZ69
¾"	6000	20XZ96
1"	3000	20XZ70
1"	6000	20XZ97
1½"	3000	20XZ71
1½"	6000	20XZ98
2"	3000	20XZ72
2"	6000	20XZ99
F22 Chrome Moly Steel		
½"	3000	20YA18
½"	6000	20YA40
¾"	3000	20YA19
¾"	6000	20YA41
1"	3000	20YA20
1"	6000	20YA42
1½"	3000	20YA21
1½"	6000	20YA43
2"	3000	20YA22
2"	6000	20YA44
F91 Chrome Moly Steel		
½"	3000	20YA62
½"	6000	20YA84
¾"	3000	20YA63
¾"	6000	20YA85
1"	3000	20YA64
1"	6000	20YA86
1½"	3000	20YA65
1½"	6000	20YA87
2"	3000	20YA66
2"	6000	20YA88



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	45° Elbow FSW Item No.
F11 Chrome Moly Steel		
½"	3000	20XZ78
¾"	3000	20XZ79
1"	3000	20XZ80
1½"	3000	20XZ81
2"	3000	20XZ82



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Coupling FNPT Item No.	Coupling FSW Item No.
304/304L Stainless Steel			
½"	3000	20XZ02	20XY96
¾"	3000	20XZ03	20XY97
1"	3000	20XZ04	20XY98
1½"	3000	20XZ05	20XY99
2"	3000	20XZ06	20XZ01
316/316L Stainless Steel			
½"	3000	20XZ51	20XZ46
¾"	3000	20XZ52	20XZ47
1"	3000	20XZ53	20XZ48
1½"	3000	20XZ54	20XZ49
2"	3000	20XZ55	20XZ50
LF2 Low Temperature Steel			
½"	3000	20XY47	20XY42
¾"	3000	20XY48	20XY43
1"	3000	20XY49	20XY44
1½"	3000	20XY50	20XY45
2"	3000	20XY51	20XY46



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Coupling FSW Item No.
F11 Chrome Moly Steel		
½"	3000	20XZ83
½"	6000	20YA06
¾"	3000	20XZ84
¾"	6000	20YA07
1"	3000	20XZ85
1"	6000	20YA08
1½"	3000	20XZ86
1½"	6000	20YA09
2"	3000	20XZ87
2"	6000	20YA10
F22 Chrome Moly Steel		
½"	3000	20YA28
½"	6000	20YA50
¾"	3000	20YA29
¾"	6000	20YA51
1"	3000	20YA30
1"	6000	20YA52
1½"	3000	20YA31
1½"	6000	20YA53
2"	3000	20YA32
2"	6000	20YA54
F91 Chrome Moly Steel		
½"	6000	20YA94
½"	3000	20YA72
¾"	6000	20YA95
¾"	3000	20YA73
1"	3000	20YA74
1"	6000	20YA96
1½"	3000	20YA75
1½"	6000	20YA97
2"	3000	20YA76
2"	6000	20YA98



Pipe Size - Pipe Fitting	Max. Pressure psi @100°F	Threaded Outlet FNPT Item No.
304/304L Stainless Steel		
½"	3000	20XZ14
¾"	3000	20XZ15
1"	3000	20XZ16
1½"	3000	20XZ17
1½"	3000	20XZ18
2"	3000	20XZ19
2"	3000	20XZ20
316/316L Stainless Steel		
½"	3000	20XZ61
¾"	3000	20XZ62
1"	3000	20XZ63
1½"	3000	20XZ64
1½"	3000	20XZ65
2"	3000	20XZ66
2"	3000	20XZ67
LF2 Low Temperature Steel		
½"	3000	20XY59
¾"	3000	20XY60
1"	3000	20XY61
1½"	3000	20XY62
1½"	3000	20XY63
2"	3000	20XY64
2"	3000	20XY65

GA GRAINGER APPROVED

Stainless Steel Threaded Pipe Fittings—Class 150

- Max. pressure: 300 psi WOG; 150 psi saturated steam

304 stainless steel has good corrosion resistance. 316 stainless steel has a higher nickel content for better corrosion resistance. NPT threads. For use with stainless steel Schedule 40 pipe nipples, with air, water, oil, natural gas, and steam. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Cap, FNPT			
	⅛"	1LRX2	2TV59
	¼"	1LRX3	6JL96
	⅜"	1LRX4	2TV60
	½"	1LRX5	6JM26
	¾"	1LRX6	6JM58
	1"	1LRX7	6JK07
	1¼"	1LRX8	2TV61
	1½"	1LRX9	6JK15
	2"	1LRY1	6JK71
	2½"	—	2TV62
	3"	1LRY3	2TV63
	4"	—	2TV64
Coupling, FNPT			
	⅛"	1LRY5	2TV65
	¼"	1LRY6	6JL98
	⅜"	1LRY7	2TV66
	½"	1LRY8	6JM28
	¾"	1LRY9	6JM60
	1"	1LRZ1	6JK09
	1¼"	1LRZ2	2TV67
	1½"	1LRZ3	6JK17
	2"	1LRZ4	6JK73
	2½"	1LRZ5	—
	3"	1LRZ6	2TV69
	4"	1LRZ7	2TV70
Cross, FNPT			
	⅛"	—	1LVD6
	¼"	1LUB8	1LVD8
	½"	1LUC3	1LVE3
	¾"	1LUC5	1LVE5
	1"	1LUC7	1LVE7
	1¼"	1LUC9	1LVE9
	2"	1LUD4	1LVF4
	2½"	1LUD6	1LVF6
	3"	1LUD8	1LVF8
	4"	1LUE1	1LVG1
Elbow, 45°, FNPT			
	⅛"	1LTB2	2TV77
	¼"	1LTB3	6JM03
	⅜"	1LTB4	2TV78
	½"	1LTB5	6JM32
	¾"	1LTB6	6JM64
	1"	1LTB7	6JK45
	1¼"	1LTB8	2TV79
	1½"	1LTB9	6JK21
	2"	1LTC1	6JL10
	3"	1LTC3	—
	4"	1LTC4	—
Elbow, 90°, FNPT			
	⅛"	1LRZ8	2TV71
	¼"	1LRZ9	6JM01
	⅜"	1LTA1	2TV72
	½"	1LTA2	6JM30
	¾"	1LTA3	6JM62
	1"	1LTA4	6JK43
	1¼"	1LTA5	2TV73
	1½"	1LTA6	6JK19
	2"	1LTA7	6JL08
	2½"	1LTA8	2TV74
	3"	1LTA9	2TV75
	4"	1LTB1	—

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Half Coupling, FNPT			
	⅛"	1LTJ1	—
	¼"	1LTJ2	—
	⅜"	1LTJ3	—
	½"	1LTJ4	—
	¾"	1LTJ5	6JM68
	1"	1LTJ6	—
	1¼"	1LTJ7	2TV89
	1½"	1LTJ8	6JK25
	2"	1LTJ9	—
	2½"	—	2TV90
	3"	1LTK2	—
Hex Bushing, MNPT x FNPT			
	¼" x ⅛"	1LTC5	6JM05
	⅜" x ⅛"	1LTC6	2TV81
	⅜" x ¼"	1LTC7	2TV82
	½" x ⅛"	1LTC8	—
	½" x ¼"	1LTC9	—
	½" x ⅜"	1LTE1	6JM34
	¾" x ⅛"	1LTE2	—
	¾" x ¼"	1LTE3	—
	¾" x ⅜"	1LTE4	—
	¾" x ½"	1LTE5	6JM66
	1" x ⅛"	1LTE6	—
	1" x ¼"	1LTE7	—
	1" x ⅜"	1LTE8	—
	1" x ½"	1LTE9	—
	1" x ¾"	1LTF1	6JK47
	1¼" x ¼"	1LTF2	—
	1¼" x ⅜"	1LTF3	—
	1¼" x ½"	1LTF4	2TV83
	1¼" x ¾"	1LTF5	2TV84
	1¼" x 1"	1LTF6	2TV85
	1½" x ¼"	1LTF7	—
	1½" x ⅜"	1LTF8	—
	1½" x ½"	1LTF9	—
	1½" x ¾"	1LTG1	—
	1½" x 1"	1LTG2	—
	1½" x 1¼"	1LTG3	6JK23
	2" x ¼"	1LTG4	—
	2" x ⅜"	1LTG5	—
	2" x ½"	1LTG6	—
	2" x ¾"	1LTG7	—
	2" x 1"	1LTG8	2TV86
	2" x 1¼"	1LTG9	—
	2" x 1½"	1LTH1	6JL12
	2½" x 1½"	1LTH2	—
	2½" x 2"	1LTH3	2TV87
	3" x 1"	1LTH4	—
	3" x 1½"	1LTH5	—
	3" x 2"	1LTH6	2TV88
	3" x 2½"	1LTH7	—
	4" x 2"	1LTH8	—
	4" x 3"	1LTH9	—
Hex Head Plug, MNPT			
	⅛"	1LTK4	—
	¼"	1LTK5	—
	⅜"	1LTK6	—
	½"	1LTK7	—
	¾"	1LTK8	—
	1"	1LTK9	—
	1¼"	1LTN1	—
	1½"	1LTN2	—
	2"	1LTN3	—
Hex Plug, MNPT			
	⅛"	—	2TV93
	¼"	—	6JM09
	⅜"	—	2TV94
	½"	—	6JM38
	¾"	—	6JM70
	1"	—	6JK51
	1½"	—	6JK27
	2"	—	6JL16

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Hex Reducing Bushing, MNPT x FNPT			
	½" x ⅛"	—	1LUL9
	½" x ¼"	—	1LUN2
	¾" x ⅛"	—	1LUN4
	¾" x ¼"	—	1LUN6
	¾" x ⅜"	—	1LUN8
	1" x ¼"	—	1LUP1
	1" x ⅜"	—	1LUP4
	1" x ½"	—	1LUP6
	1¼" x ¼"	—	1LUP8
	1¼" x ½"	—	1LUR1
	1¼" x ½"	—	1LUR3
	1¼" x ¾"	—	1LUR5
	1½" x 1"	—	1LUR7
	2" x ¼"	—	1LUR9
	2" x ⅜"	—	1LUT2
	2" x ½"	—	1LUT4
	2" x ¾"	—	1LUT6
	2" x 1¼"	—	1LUT8
	2½" x 1½"	—	1LUV1
	3" x 1"	—	1LUV3
	3" x 1½"	—	1LUV5
	3" x 2½"	—	1LUV7
	4" x 2"	—	1LUV9
Hex Socket Plug, MNPT			
	1⁄16"	4WPK1	—
	⅛"	4WPK2	4WPL2
	¼"	4WPK3	4WPL3
	⅜"	4WPK4	4WPL4
	½"	4WPK5	4WPL5
	¾"	4WPK6	4WPL6
	1"	4WPK7	—
	1¼"	4WPK8	4WPL8
Locknut, FNPT			
	½"	—	1LVG9
	1¼"	1LUL3	—
	1½"	1LUL5	1LVH8
Reducing Coupling, FNPT			
	¼" x ⅛"	1LTN7	6JM11
	⅜" x ⅛"	1LTN8	1LUW4
	⅜" x ¼"	1LTN9	2TV97
	½" x ⅛"	1LTP1	1LUW6
	½" x ¼"	1LTP2	1LUW8
	½" x ⅜"	1LTP3	6JM40
	¾" x ¼"	1LTP5	1LUY3
	¾" x ⅜"	1LTP6	1LUY5
	¾" x ½"	1LTP7	6JM72
	¾" x ⅛"	—	1LUY1
	1" x ⅛"	1LTP8	1LUY7
	1" x ¼"	1LTP9	1LUY9
	1" x ⅜"	1LTR1	1LUZ2
	1" x ½"	1LTR2	1LUZ4
	1" x ¾"	1LTR3	6JK53
	1¼" x ⅛"	1LTR4	—
	1¼" x ¼"	1LTR5	—
	1¼" x ⅜"	1LTR6	1LUZ8
	1¼" x ½"	1LTR7	2TV98
	1¼" x ¾"	1LTR8	2TV99
	1¼" x 1"	1LTR9	2TY10
	1½" x ⅛"	1LTT1	1LVA1
	1½" x ¼"	1LTT2	1LVA3
	1½" x ⅜"	1LTT3	1LVA5
	1½" x ½"	1LTT4	1LVA7
	1½" x ¾"	1LTT5	1LVA9
	1½" x 1"	1LTT6	1LVB2
	1½" x 1¼"	1LTT7	6JK29
	2" x ⅜"	1LTT8	1LVB4
	2" x ½"	1LTT9	1LVB6
	2" x ¾"	1LTU1	1LVB8
	2" x 1"	1LTU2	1LVC1
	2" x 1¼"	1LTU3	1LVC3
	2" x 1½"	1LTU4	6JL18
	2½" x 1½"	1LTU5	—
	2½" x 2"	1LTU6	2TY11
	3" x 1"	—	1LVC5
	3" x 2"	1LTU8	1LVC7
	3" x 2½"	1LTU9	1LVC9
	4" x 2"	—	1LVD2
	4" x 3"	1LTV2	—

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Square Head Plug, MNPT			
	⅛"	1LTW6	2TY16
	¼"	1LTW7	6JM15
	⅜"	1LTW8	2TY17
	½"	1LTW9	6JM46
	¾"	1LTX2	6JM78
	1"	1LTX4	6JK59
	1¼"	1LTX6	2TY18
	1½"	1LTX8	6JK35
	2"	1LTY3	6JL24
	2½"	1LTY1	2TY19
	3"	1LTY5	—
Street Elbow, MNPT x FNPT			
	⅛"	1LTV3	2TY12
	¼"	1LTV4	6JM13
	⅜"	1LTV5	2TY13
	½"	1LTV6	6JM42
	¾"	1LTV7	6JM74
	1"	1LTV8	6JK55
	1¼"	1LTV9	2TY14
	1½"	1LTW1	6JK31
	2"	1LTW2	6JL20
	2½"	—	2TY15
	3"	1LTW4	—
	4"	1LTW5	—
Tee, FNPT			
	⅛"	1LTY9	2TY20
	¼"	1LTZ2	6JM17
	⅜"	1LTZ4	2TY21
	½"	1LTZ6	6JM48
	¾"	1LTZ8	6JM80
	1"	1LUA1	6JK61
	1¼"	1LUA3	2TY22
	1½"	1LUA5	6JK37
	2"	1LUA7	6JL26
	2½"	1LUA9	—
	3"	1LUB2	—
Union, FNPT			
	⅛"	1LUE3	2TY24
	¼"	1LUE5	6JM19
	⅜"	1LUE7	2TY25
	½"	1LUE9	6JM52
	¾"	1LUF2	6JM84
	1"	1LUF4	6JK65
	1¼"	1LUF6	2TY26
	1½"	1LUF8	6JK41
	2"	1LUH1	6JL30
	2½"	1LUH3	—
	3"	1LUH5	—
	4"	1LUH7	—







Pipe Size - Pipe Fitting	45° Elbow Item No.	90° Elbow Item No.	Coupling Item No.	Tee Item No.	Union Item No.
½"	—	—	—	—	2TY68
¾"	—	2TY37	—	2TY61	2TY69
1"	—	2TY38	2TY30	2TY62	2TY70
1¼"	2TY47	—	—	2TY63	2TY71
1½"	—	2TY40	2TY32	—	2TY72
2"	—	2TY41	2TY33	2TY65	2TY73
2½"	—	2TY42	—	2TY66	—
3"	—	2TY43	2TY35	—	—

GA GRAINGER APPROVED

316 Stainless Steel Socket Weld Pipe Fittings—Class 150

- Max. pressure: 300 psi WOG; 150 psi steam at 150°F

316 stainless steel has a higher nickel content to provide better corrosion resistance than 304 stainless steel. For plumbing or welding applications with air, water, natural gas, or steam. Materials conform to ASTM-A-351. Dimensions conform to ANSI B16.5. Meet MSS-SP-51 Class 150LB for flange dimensions, pressure, and temperature.

Stainless Steel Socket Weld Flanges—Class 150

- Max. pressure: 275 psi
- Max. steam pressure: 150 psi

Allow easy access to piping systems by bolting 2 flanges together with a gasket to create a tight seal. Similar to slip-on flanges, but a lip supports the pipe while welding. Flanges are counter-bored to accept the pipe before being fillet welded. Flange and pipe bore are the same to enhance flow characteristics. The forged 304L stainless steel construction offers very good corrosion resistance. Flanges are suitable for use with air, water, oil, natural gas, and steam. Meet ASTM-SA182 and ANSI B16.5.

GRAINGER APPROVED

Pipe Size - Pipe Fitting	Outside Dia.	Item No.
½"	3½"	1RUK2
¾"	3 9/10"	1RUK3
1"	4¼"	1RUK4
1¼"	4⅝"	1RUK5
1½"	5"	1RUK6
2"	6"	1RUK7
2½"	7"	1RUK8
3"	7½"	1RUK9



GRAINGER APPROVED

Schedule 40 Stainless Steel Pipe



304 stainless steel resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. 316 stainless steel offers even better corrosion resistance. NPT threads on both ends. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	304 Stainless Steel Max. Pressure	304 Stainless Steel Temp. Range	304 Stainless Steel Item No.	316 Stainless Steel Max. Pressure	316 Stainless Steel Temp. Range	316 Stainless Steel Item No.
18" Length						
⅛"	3010 psi	-20° to 650°F	4TMR1	150 psi	-60° to 450°F	4TND4
¼"	1808 psi @ 650° F	-20° to 650°F	4TMR2	2184 psi	-20° to 650°F	4TND5
⅜"	1920 psi	-20° to 650°F	4TMR3	—	—	—
½"	1908 psi @ 650° F	-20° to 650°F	4TMR4	1467 psi @ 650°F	-20 Degrees to 650°F	4TND7
¾"	1622 psi	-20° to 650°F	4TMR5	1563 psi	-20° to 650°F	4TND8
1"	—	—	—	1403 psi	-20° to 650°F	4TND9
1¼"	150 psi	-60° to 450°F	4TMR7	150 psi	-60° to 450°F	4TNE1
1½"	946 PSI @ 650°F	-20 Degrees to 650°F	4TMR8	150 psi	-60° to 450°F	4TNE2
2"	—	—	—	808 psi @ 650°F	-20 Degrees to 650°F	4TNE3
2½"	1049 psi	-20° to 650°F	4TMT1	150 psi	-60° to 450°F	4TNE4
4"	705 psi @ 650° F	-20° to 650°F	4TMT3	—	—	—
2 ft. Length						
⅛"	150 psi	-60° to 450°F	4TMT4	150 psi	-60° to 450°F	4TNE7
¼"	2262 psi	-20° to 650°F	4TMT5	1761 psi @ 650°F	-20 Degrees to 650°F	4TNE8
⅜"	1920 psi	-20° to 650°F	4TMT6	—	—	—
½"	1908 psi @ 650° F	-20° to 650°F	4TMT7	1467 psi @ 650°F	-20 Degrees to 650°F	4TNF1
¾"	—	—	—	1563 psi	-20° to 650°F	4TNF2
1"	1458 psi	-20° to 650°F	4TMT9	1403 psi	-20° to 650°F	4TNF3
1¼"	150 psi	-60° to 450°F	4TMU1	150 psi	-60° to 450°F	4TNF4
2"	1049 psi	-20° to 650°F	4TMU3	—	—	—
2½"	150 psi	-60° to 450°F	4TMU4	1009 psi	-20° to 650°F	4TNF7
3"	966 psi	-20° to 650°F	4TMU5	930 psi	-20° to 650°F	4TNF8
4"	705 psi @ 650° F	-20° to 650°F	4TMU6	150 psi	-60° to 450°F	4TNF9
3 ft. Length						
⅛"	3010 psi @ 650° F	-20° to 650°F	4TMU7	150 psi	-60° to 450°F	4TNG1
¼"	1808 PSI @ 650°F	-20 Degrees to 650°F	4TMU8	—	—	—
⅜"	1920 psi @ 650°F	-20 Degrees to 650°F	4TMU9	—	—	—
½"	1526 PSI @ 650°F	-20 Degrees to 650°F	4TMV1	1467 psi @ 650°F	-20 Degrees to 650°F	4TNG4
¾"	1622 psi	-20° to 650°F	4TMV2	1563 psi	-20° to 650°F	4TNG5
1"	150 psi	-60° to 450°F	4TMV3	1408 psi @ -20 to 100°F	-20° to 650°F	4TNG6
1¼"	1017 PSI @ 650°F	-20 Degrees to 650°F	4TMV4	150 psi	-60° to 450°F	4TNG7
1½"	946 psi @ 650° F	-20° to 650°F	4TMV5	—	—	—
2"	1049 psi	-20° to 650°F	4TMV6	—	—	—
2½"	150 psi	-60° to 450°F	4TMV7	1009 psi @ 650° F	-20° to 650°F	4TNH1
3"	150 psi	-60° to 450°F	4TMV8	—	—	—

Pipe Size (Nominal)	304 Stainless Steel Max. Pressure	304 Stainless Steel Temp. Range	304 Stainless Steel Item No.	316 Stainless Steel Max. Pressure	316 Stainless Steel Temp. Range	316 Stainless Steel Item No.
4 ft. Length						
⅛"	3010 psi @ 650° F	-20° to 650°F	4TMW1	2893 psi @ 650° F	-20° to 650°F	4TNH4
¼"	150 psi	-60° to 450°F	4TMW2	2184 psi	-20° to 650°F	4TNH5
⅜"	1920 psi	-20° to 650°F	4TMW3	1856 psi @ 650°F	-20 Degrees to 650°F	4TNH6
½"	150 psi	-60° to 450°F	4TMW4	150 psi	-60° to 450°F	4TNH7
¾"	1565 @ -20 to 100°F	-20° to 650°F	4TMW5	1249 psi @ 650° F	-20° to 650°F	4TNH8
1"	150 psi	-60° to 450°F	4TMW6	—	—	—
1¼"	150 psi	-60° to 450°F	4TMW7	150 psi	-60° to 450°F	4TNJ1
2"	839 PSI @ 650°F	-20 Degrees to 650°F	4TMW9	—	—	—
3"	—	—	—	150 psi	-60° to 450°F	4TNJ5
5 ft. Length						
⅛"	150 psi	-60° to 450°F	4TMX4	—	—	—
¼"	2262 psi	-20° to 650°F	4TMX5	—	—	—
⅜"	1920 psi	-20° to 650°F	4TMX6	—	—	—
½"	150 psi	-60° to 450°F	4TMX7	1838 psi	-20° to 650°F	4TNK1
¾"	1293 psi @ 650° F	-20° to 650°F	4TMX8	—	—	—
1"	—	—	—	150 psi	-60° to 450°F	4TNK3
1½"	1145 psi @ -20 to 100°F	-20° to 650°F	4TMY2	150 psi	-60° to 450°F	4TNK5
2"	839 psi @ 650° F	-20° to 650°F	4TMY3	1009 psi	-20° to 650°F	4TNK6
2½"	150 psi	-60° to 450°F	4TMY4	150 psi	-60° to 450°F	4TNK7
3"	150 psi	-60° to 450°F	4TMY5	—	—	—
6 ft. Length						
⅛"	—	—	—	150 psi	-60° to 450°F	4TNL1
⅜"	1920 psi	-20° to 650°F	4TMY9	—	—	—
½"	150 psi	-60° to 450°F	4TMZ1	150 psi	-60° to 450°F	4TNL4
¾"	1293 PSI @ 650°F	-20 Degrees to 650°F	4TMZ2	—	—	—
1"	150 psi	-60° to 450°F	4TMZ3	1403 psi	-20° to 650°F	4TNL6
1¼"	—	—	—	150 psi	-60° to 450°F	4TNL7
1½"	946 psi @ 650° F	-20° to 650°F	4TMZ5	150 psi	-60° to 450°F	4TNL8
2"	—	—	—	150 psi	-60° to 450°F	4TNL9
3"	150 psi	-60° to 450°F	4TMZ8	—	—	—
4"	150 psi	-60° to 450°F	4TMZ9	150 psi	-60° to 450°F	4TNN3
10 ft. Length						
⅛"	—	—	—	150 psi	-60° to 450°F	4TNN4
¼"	2262 psi @ 650° F	-20° to 650°F	4TNC2	1761 psi @ 650°F	-20 Degrees to 650°F	4TNN5
⅜"	—	—	—	1856 psi	-20° to 650°F	4TNN6
½"	1908 psi @ 650° F	-20° to 650°F	4TNC4	150 psi	-60° to 450°F	4TNN7
¾"	1622 psi	-20° to 650°F	4TNC5	1563 psi	-20° to 650°F	4TNN8
1"	1458 psi	-20° to 650°F	4TNC6	150 psi	-60° to 450°F	4TNN9
1¼"	—	—	—	977 psi @ 650° F	-20° to 650°F	4TNP1
1½"	946 PSI @ 650°F	-20 Degrees to 650°F	4TNC8	1145 psi @ -20 to 100°F	-20° to 650°F	4TNP2
2"	150 psi	-60° to 450°F	4TNC9	150 psi	-60° to 450°F	4TNP3
2½"	—	—	—	150 psi	-60° to 450°F	4TNP4
3"	150 psi	-60° to 450°F	4TND2	—	—	—
4"	150 psi	-60° to 450°F	4TND3	150 psi	-60° to 450°F	4TNP6

DOWNLOAD the Grainger Mobile App!

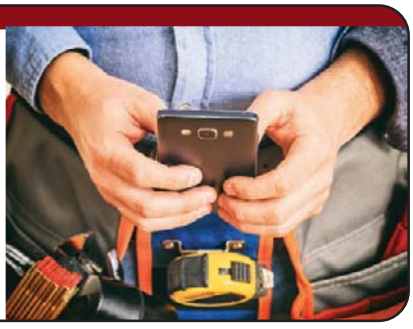
- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory



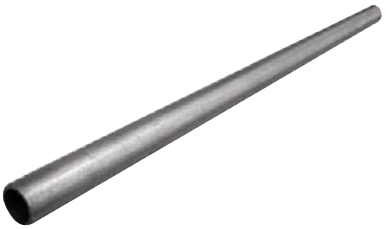
Download on the App Store

GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Sign in to Grainger.com® to see YOUR Pricing and MORE



GA GRAINGER APPROVED

Schedule 40 Stainless Steel Unthreaded Pipe

304 stainless steel resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. 316 stainless steel offers even better corrosion resistance. For use in natural gas, oil, steam, and water applications. Meet ASTM A-312.

Pipe Size (Nominal)	304 Stainless Steel Max. Pressure	304 Stainless Steel Item No.	316 Stainless Steel Max. Pressure	316 Stainless Steel Item No.
10 ft. Length				
⅛"	—	—	4096 psi @ 650°F	**1RUL2**
¼"	2189 @ -20 to 100°F	**15A816**	2184 psi	**15A824**
⅜"	—	—	3180 psi @ 650°F	**1RUL4**
½"	1908 psi @ 650° F	**15A818**	1838 psi	**15A825**
¾"	1622 psi	**15A819**	1563 psi @ 650° F	**15A826**
1"	1458 psi	**15A820**	1125 psi @ 650° F	**15A827**
1¼"	—	—	1916 psi @ 650°F	**2UE68**
1½"	150 psi	**15A822**	1717 psi @ 650°F	**2UE69**
2"	1049 psi @ 650° F	**15A823**	150 psi	**15A828**
2½"	1582 psi @ 650°F	**1RUP2**	1582 psi @ 650°F	**1RUL5**
3"	1369 psi @ 650°F	**1RUP3**	1369 psi @ 650°F	**1RUL6**
4"	1160 psi @ 650°F	**1RUP4**	1160 psi @ 650°F	**1RUL7**



Close Thread Nipple



Nipple

GA GRAINGER APPROVED

Schedule 40 Welded Stainless Steel Nipples

- Max. pressure: 150 psi CWP at 150°F
- Temp. range: -60° to 450°F
- ⅛" pipe size is seamless construction

For use with Class 150 stainless steel threaded pipe fittings for applications with air, water, oil, natural gas, and steam. NPT threads on both ends. Meet ASTM A733. 304 stainless steel is an economically priced, chromium-nickel material that offers very good corrosion resistance. 316 stainless steel has a higher nickel content and contains molybdenum for even better corrosion resistance.

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Close Thread		
⅛"	**1XAL1**	**1WZV4**
¼"	**1XAN9**	—
⅜"	**1XAR8**	**1WZZ2**
½"	**1XAU7**	**1XAA9**
¾"	**1XAW5**	**1XAC8**
1¼"	—	**1WZP5**
2"	—	**1XAJ3**
2½"	**1XBF3**	—
3"	**1XBG3**	—
4"	—	**1WZU6**
⅞" Length		
¼"	—	**1WZX3**
1½" Length		
⅛"	**1XAL2**	**1WZV5**
¼"	**1XAP1**	**1WZX4**
⅜"	**1XAR9**	**1WZZ3**
½"	**1XAU8**	**1XAB1**
¾"	**1XAW6**	**1XAC9**
1"	**1XAY4**	—
1⅝" Length		
1¼"	**1XBA2**	—
1¾" Length		
1½"	**1XBB8**	**1XAG5**
2" Length		
⅛"	**1XAL3**	**1WZV6**
¼"	**1XAP2**	**1WZX5**
⅜"	**1XAT1**	**1WZZ4**
½"	**1XAU9**	**1XAB2**
¾"	**1XAW7**	**1XAD1**
1"	**1XAY6**	**1XAE9**
1"	—	**1XAE7**
1¼"	**1XBA3**	—
1½"	**1XBB9**	**1XAG6**
2"	**1XBD6**	—
2½" Length		
⅛"	**1XAL4**	**1WZV7**
¼"	**1XAP3**	**1WZX6**
⅜"	**1XAT2**	**1WZZ5**
½"	**1XAV1**	**1XAB3**
¾"	**1XAW8**	**1XAD2**
1"	**1XAY7**	**1XAF1**
1¼"	**1XBA4**	**1WZP6**
1½"	**1XBC1**	**1XAG7**
2"	**1XBD7**	—
2½"	—	**1WZR6**
2¾" Length		
3"	—	**1WZT6**
3" Length		
⅛"	**1XAL5**	**1WZV8**
¼"	**1XAP4**	**1WZX7**
⅜"	**1XAT3**	**1WZZ6**
½"	**1XAV2**	**1XAB4**
¾"	**1XAW9**	**1XAD3**
1"	**1XAY8**	**1XAF2**
1¼"	**1XBA5**	**1WZP7**
1½"	**1XBC2**	**1XAG8**
2"	**1XBD8**	**1XAJ4**
2"	—	**1XAJ5**
2½"	—	**1WZR7**
3"	**1XBG4**	**1WZT7**

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
3½" Length		
⅛"	**1XAL6**	**1WZV9**
¼"	**1XAP5**	**1WZX8**
⅜"	**1XAT4**	**1WZZ7**
½"	**1XAV3**	**1XAB5**
¾"	**1XAX1**	**1XAD4**
1"	**1XAY9**	**1XAF3**
1¼"	**1XBA6**	**1WZP8**
1½"	**1XBC3**	**1XAG9**
2"	**1XBD9**	**1XAJ6**
2½"	**1XBF4**	**1WZR8**
3"	**1XBG5**	**1WZT8**
4" Length		
⅛"	**1XAL7**	**1WZW1**
¼"	**1XAP6**	**1WZX9**
⅜"	**1XAT5**	**1WZZ8**
½"	**1XAV4**	**1XAB6**
¾"	**1XAX2**	**1XAD5**
1"	**1XAZ1**	**1XAF4**
1¼"	**1XBA7**	**1WZP9**
1½"	**1XBC4**	**1XAH1**
2"	**1XBE1**	**1XAJ7**
2½"	**1XBF5**	**1WZR9**
3"	—	**1WZT9**
4"	—	**1WZU7**
4½" Length		
⅛"	**1XAL8**	**1WZW2**
¼"	**1XAP7**	**1WZY1**
⅜"	**1XAT6**	**1WZZ9**
½"	—	**1XAB7**
¾"	**1XAX3**	**1XAD6**
1"	**1XAZ2**	**1XAF5**
1¼"	**1XBA8**	—
1½"	**1XBC5**	**1XAH2**
2"	**1XBE2**	**1XAJ8**
3"	**1XBG6**	—
5" Length		
⅛"	**1XAL9**	**1WZW3**
¼"	**1XAP8**	**1WZY2**
⅜"	**1XAT7**	**1XAA1**
½"	**1XAV5**	**1XAB8**
¾"	**1XAX4**	**1XAD7**
1"	**1XAZ3**	**1XAF6**
1¼"	**1XBA9**	**1WZR1**
1½"	**1XBC6**	**1XAH3**
2"	**1XBE3**	**1XAJ9**
2½"	**1XBF6**	**1WZT1**
3"	**1XBG7**	**1WZU1**
4"	**1XBH3**	**1WZU8**

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
5½" Length		
⅛"	**1XAN1**	**1WZW4**
¼"	**1XAP9**	**1WZY3**
⅜"	**1XAT8**	**1XAA2**
½"	**1XAV6**	**1XAB9**
¾"	**1XAX5**	**1XAD8**
1"	**1XAZ4**	**1XAF7**
1¼"	**1XBB1**	—
1½"	**1XBC7**	**1XAH4**
2"	**1XBE4**	**1XAK1**
2½"	—	**1XAK9**
4"	**1XBH4**	—
6" Length		
⅛"	**1XAN2**	**1WZW5**
¼"	**1XAR1**	**1WZY4**
⅜"	**1XAT9**	**1XAA3**
½"	**1XAV7**	**1XAC1**
¾"	**1XAX6**	**1XAD9**
1"	**1XAZ5**	**1XAF8**
1¼"	**1XBB2**	**1WZR2**
1½"	**1XBC8**	**1XAH5**
2"	**1XBE5**	**1XAK2**
2½"	**1XBF7**	**1WZT2**
3"	—	**1WZU2**
4"	—	**1WZU9**
7" Length		
⅛"	**1XAN3**	**1WZW6**
¼"	**1XAR2**	**1WZY5**
⅜"	**1XAU1**	**1XAA4**
½"	**1XAV8**	**1XAC2**
¾"	**1XAX7**	**1XAE1**
1"	**1XAY5**	**1XAE8**
1¼"	**1XBB3**	—
1½"	**1XBC9**	—
2"	**1XBE6**	—
8" Length		
⅛"	**1XAN4**	**1WZW7**
¼"	**1XAR3**	**1WZY6**
⅜"	**1XAU2**	—
½"	**1XAV9**	**1XAC3**
¾"	**1XAX8**	**1XAE2**
1"	**1XAZ6**	**1XAF9**
1¼"	**1XBB4**	**1WZR3**
1½"	**1XBD1**	**1XAH7**
2"	**1XBE7**	**1XAK4**
3"	**1XBG8**	—

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
9" Length		
⅛"	**1XAN5**	**1WZW8**
¼"	**1XAR4**	**1WZY7**
⅜"	—	**1XAA5**
½"	**1XAW1**	**1XAC4**
¾"	**1XAX9**	**1XAE3**
1"	**1XAZ7**	**1XAG1**
1¼"	**1XBB5**	—
1½"	**1XBD2**	—
2"	**1XBE8**	—
2½"	**1XBF9**	—
10" Length		
⅛"	—	**1WZW9**
¼"	**1XAR5**	**1WZY8**
⅜"	**1XAU4**	**1XAA6**
½"	**1XAW2**	**1XAC5**
¾"	**1XAY1**	**1XAE4**
1"	**1XAZ8**	**1XAG2**
1¼"	**1XBB6**	—
1½"	**1XBD3**	**1XAH9**
2"	**1XBE9**	**1XAK6**
11" Length		
¼"	**1XAR6**	**1WZY9**
⅜"	**1XAU5**	—
½"	**1XAW3**	**1XAC6**
¾"	**1XAY2**	**1XAE5**
1"	**1XAZ9**	—
1½"	**1XBD4**	**1XAJ1**
2"	**1XBF1**	**1XAK7**
12" Length		
⅛"	**1XAN8**	**1WZX2**
¼"	**1XAR7**	**1WZZ1**
⅜"	**1XAU6**	**1XAA8**
½"	**1XAW4**	**1XAC7**
¾"	**1XAY3**	**1XAE6**
1"	**1XBA1**	**1XAG4**
1¼"	**1XBB7**	**1WZR5**
1½"	**1XBD5**	**1XAJ2**
2"	**1XBF2**	**1XAK8**
2½"	**1XBG2**	—
3"	**1XBH1**	—



No. 1XBL1

GA GRAINGER APPROVED

Schedule 40 Stainless Steel TOE Nipples

- Max. pressure: 300 psi CWP; 150 psi steam at 150°F
- Temp. range: -60° to 450°F

NPT threads on 1 end for easy connection; other end is nonthreaded for welding or brazing. For use with Class 150 stainless steel threaded pipe fittings for applications with air, water, oil, natural gas, and steam. Meet ASTM A733. The 304 stainless steel is a chromium-nickel material that offers very good corrosion resistance. 316 stainless steel has a higher nickel content and molybdenum for better corrosion resistance.

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
1" Length		
⅛"	1XBH7	—
¼"	1XBH8	—
⅜"	1XBH9	—
½"	1XBJ1	1XBU7
¾"	1XBJ2	1XBU8
1½" Length		
⅛"	1XBJ3	—
¼"	1XBJ4	1XBU9
⅜"	1XBJ5	1XBV1
½"	1XBJ6	1XBV2
¾"	1XBJ7	1XBV3
1"	1XBJ8	1XBV4
1¼"	1XBJ9	—
1½"	1XBK1	1XBV6
2" Length		
⅛"	1XBK2	—
¼"	1XBK3	1XBV7
⅜"	1XBK4	—
½"	1XBK5	1XBV9
¾"	1XBK6	1XBW1
1"	1XBK7	—
1¼"	1XBK8	1XBW3
1½"	1XBK9	—
2"	1XBL1	1XBW5

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
2½" Length		
⅛"	1XBL2	—
¼"	1XBL3	1XBW6
⅜"	1XBL4	1XBW7
½"	1XBL5	—
¾"	1XBL6	1XBW9
1"	1XBL7	1XBX1
1¼"	1XBL8	1XBY3
1½"	—	1XBX3
2"	1XBN1	1XBX4
2½"	1XBN2	—
3"	1XBN3	1XBX5
4"	1XBN4	1XBX6
3" Length		
⅛"	1XBN5	—
¼"	1XBN6	1XBX7
⅜"	1XBN7	1XBX8
½"	1XBN8	1XBX9
¾"	1XBN9	—
1"	1XBP1	1XBY2
1¼"	1XBP2	—
1½"	1XBP3	1XBY4
2"	1XBP4	1XBY5
2½"	1XBP5	—
3"	1XBP6	—

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
4" Length		
⅛"	1XBP8	—
¼"	1XBP9	1XBY8
⅜"	1XBR1	1XBY9
½"	1XBR2	—
¾"	1XBR3	1XBZ2
1"	1XBR4	1XBZ3
1½"	1XBR6	1XBZ5
2"	1XBR7	1XBZ6
2½"	1XBR8	—
3"	1XBR9	1XBZ7
4"	1XBT1	1XBZ8
6" Length		
⅛"	1XBT2	—
¼"	1XBT3	1XBZ9
⅜"	1XBT4	1XCA1
½"	1XBT5	1XCA2
¾"	1XBT6	1XCA3
1"	1XBT7	1XCA4
1¼"	1XBT8	1XCA5
1½"	1XBT9	—
2"	1XBU1	1XCA7
2½"	1XBU2	—
3"	1XBU3	1XCA8
4"	1XBU4	—

Stainless Steel Threaded Fittings—3000 psi

GA GRAINGER APPROVED

- Max. pressure for fittings, except unions: (304 SS) 2570 psi CWP at 100°F, 1965 psi at 400°F steam; (316 SS) 3000 psi CWP at 100°F, 2810 psi at 350°F
- Max. pressure for unions only: (304 SS) 2915 psi CWP at 100°F, 1905 psi at 400°F steam; (316 SS) 2915 psi CWP at 100°F, 2080 psi at 400°F

304 stainless steel is a chromium nickel material that offers very good corrosion resistance. 316 stainless steel has a higher nickel content, as well as molybdenum, for better corrosion resistance. Use with Schedule 80 stainless steel pipe for applications with air, water, and natural gas. Threads conform to ASME B1.20.1, materials conform to ASTM A182, and dimensions conform to ASME B16.11.

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Cap, FNPT			
	⅛"	2UA42	2TY74
	¼"	2UA43	2TY75
	⅜"	2UA44	2TY76
	½"	2UA45	2TY77
	¾"	2UA46	2TY78
	1"	2UA47	2TY79
	1¼"	1LVL3	1RTB4
	1½"	—	1RTB6
	2"	1LVL7	1RTB8
	2½"	1LVL9	1RTD1
	3"	1LVN2	1RTD3
Coupling, FNPT			
	⅛"	2UA48	2TY80
	¼"	2UA49	2TY81
	⅜"	2UA50	2TY82
	½"	2UA51	2TY83
	¾"	2UA52	2TY84
	1"	2UA53	2TY85
	1¼"	1LVN4	—
	1½"	1LVN6	1RTD7
	2"	1LVN8	1RTD9
	2½"	1LVP1	1RTE2
	3"	1LVP3	1RTE4
Cross, FNPT			
	⅛"	1LVJ3	1RRZ4
	¼"	1LVJ5	1RRZ6
	⅜"	1LVJ7	1RRZ8
	½"	—	1RTA1
	¾"	1LVK2	1RTA3
	1"	1LVK4	1RTA5
	1¼"	1LVK6	1RTA7
	1½"	1LVK8	1RTA9
	2"	1LVL1	1RTB2
Elbow, 45°, FNPT			
	⅛"	2UA60	2TY92
	¼"	2UA61	2TY93
	⅜"	2UA62	2TY94
	½"	2UA63	2TY95
	¾"	2UA64	2TY96
	1"	2UA65	2TY97
Elbow, 90°, FNPT			
	⅛"	2UA54	2TY86
	¼"	2UA55	2TY87
	⅜"	2UA56	2TY88
	½"	2UA57	2TY89
	¾"	2UA58	2TY90
	1"	2UA59	2TY91
Half Coupling, FNPT			
	⅛"	2UA72	2UA14
	¼"	2UA73	2UA15
	⅜"	2UA74	2UA16
	½"	2UA75	2UA17
	¾"	—	2UA18
	1"	2UA77	2UA19

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
Half Coupling, Socket Weld			
	1¼"	1LVP5	1RTE6
	1½"	1LVP7	1RTE8
	2"	—	1RTF1
	2½"	1LVR2	1RTF3
	3"	1LVR5	1RTF5
Hex Head Plug, MNPT			
	⅛"	1RRG4	1RTF7
	¼"	1RRG6	1RTF9
	⅜"	1RRG8	1RTH2
	½"	1RRH1	1RTH4
	¾"	1RRH3	1RTH6
	1"	1RRH5	1RTH8
	1¼"	1RRH7	1RTJ1
	1½"	1RRH9	1RTJ3
	2"	1RRJ2	1RTJ5
	2½"	1RRJ4	1RTJ7
	3"	1RRJ6	1RTJ9
	4"	1RRJ8	1RTK2
Hex Reducing Bushing, MNPT x FNPT			
	¼" x ⅛"	1RRN7	1RTP1
	⅜" x ⅛"	1RRN9	1RTP3
	⅜" x ¼"	1RRP2	1RTP5
	½" x ⅛"	1RRP4	1RTP8
	½" x ¼"	1RRP6	1RTR1
	½" x ⅜"	1RRP8	1RTR3
	¾" x ⅛"	1RRR1	1RTR5
	¾" x ¼"	1RRR3	1RTR7
	¾" x ⅜"	1RRR5	1RTR9
	¾" x ½"	1RRR7	1RTT2
	1" x ⅛"	1RRR9	1RTT4
	1" x ¼"	1RRT2	—
	1" x ⅜"	1RRT4	1RTT8
	1" x ¾"	1RRT8	1RTU3
	1" x ½"	—	1RTU1
	1¼" x ½"	1RRU1	1RTU5
	1¼" x ¾"	1RRU3	1RTU7
	1¼" x 1"	1RRU5	1RTU9
	1½" x ¾"	1RRU7	1RTW2
	1½" x 1"	1RRU9	1RTW4
	1½" x 1¼"	1RRV2	1LTX1
	2" x ¾"	1RRV4	1LTX3
	2" x 1"	1RRV6	1LTX5
	2" x 1¼"	1RRV8	1LTX7
	2" x 1½"	1RRW1	1LTX9
	2½" x 1"	1RRW3	1LTY2
	2½" x 1¼"	1RRW5	1LTY4
	2½" x 1½"	1RRW7	1LTY6
	3" x 1"	1RRW9	1LTY8
	3" x 1¼"	1RRX2	1LTZ1
	3" x 1½"	1RRX4	1LTZ3
	3" x 2"	1RRX6	1LTZ5

Description	Pipe Size - Pipe Fitting	304 SS Item No.	316 SS Item No.
	3" x 2½"	1RRX8	1LTZ7
	4" x 1"	1RRY1	1LTZ9
	4" x 1¼"	1RRY3	1LUA2
	4" x 1½"	1RRY5	1LUA4
	4" x 2"	1RRY7	1LUA6
	4" x 2½"	1RRY9	1LUA8
	4" x 3"	1RRZ2	1LUB1
Reducing Coupling, FNPT			
	¼" x ⅛"	2UA78	2UA20
	⅜" x ⅛"	2UA79	2UA21
	⅜" x ¼"	2UA80	2UA22
	½" x ¼"	2UA81	2UA23
	½" x ⅜"	2UA82	2UA24
	¾" x ¼"	2UA83	—
	¾" x ⅜"	2UA84	2UA26
	¾" x ½"	2UA85	2UA27
	1" x ¾"	2UA87	2UA29
	1" x ½"	—	2UA28
Square Head Plug, MNPT			
	⅛"	1RRK1	1RTK4
	¼"	1RRK3	1RTK6
	⅜"	1RRK5	1RTK8
	½"	1RRK7	1RTL1
	¾"	1RRK9	1RTL3
	1"	1RRL2	1RTL5
	1¼"	1RRL4	1RTL7
	1½"	1RRL6	1RTL9
	2"	1RRL8	—
	2½"	1RRN1	1RTN4
	3"	1RRN3	—
	4"	1RRN5	1RTN8
Street Elbow, 90°, MNPT x FNPT			
	⅛"	2UA66	2TY98
	¼"	2UA67	2TY99
	⅜"	2UA68	2UA10
	½"	2UA69	2UA11
	¾"	2UA70	2UA12
	1"	2UA71	2UA13
Tee, FNPT			
	⅛"	2UA88	2UA30
	¼"	2UA89	2UA31
	⅜"	2UA90	2UA32
	½"	2UA91	2UA33
	¾"	2UA92	2UA34
	1"	2UA93	2UA35
Union, FNPT			
	⅛"	2UA94	2UA36
	¼"	2UA95	2UA37
	⅜"	2UA96	2UA38
	½"	2UA97	2UA39
	¾"	2UA98	2UA40
	1"	2UA99	2UA41

Scan. Order. Done.
Details on page A1.



GRAINGER APPROVED

Schedule 80 Stainless Steel Pipe Nipples

- Max. pressure: 250 psi
- Temp. range: -60° to 450°F

Threaded on both ends. 304 stainless steel is a chromium-nickel material that offers very good corrosion resistance. 316 stainless steel has a higher nickel content, as well as molybdenum, for even greater corrosion resistance. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Close Thread		
⅛"	4TNP7	4TPN2
¼"	4TNP8	4TPN3
⅜"	4TNP9	—
½"	4TNR1	4TPN5
¾"	4TNR2	4TPN6
1"	4TNR3	4TPN7
1¼"	4TNR4	4TPN8
1½"	4TNR5	4TPN9
2"	4TNR6	4TPP1
1" Length		
⅜"	—	4TPN4
1½" Length		
⅛"	4TNR7	4TPP2
¼"	4TNR8	4TPP3
⅜"	4TNR9	4TPP4
½"	4TNT1	4TPP5
¾"	4TNT2	4TPP6
2" Length		
⅛"	4TNT3	4TPP7
¼"	4TNT4	4TPP8
⅜"	4TNT5	4TPP9
½"	4TNT6	4TPR1
¾"	4TNT7	4TPR2
1"	4TNT8	4TPR3
1¼"	4TNT9	4TPR4
1½"	4TNU1	4TPR5

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
2½" Length		
⅛"	4TNU2	4TPR6
¼"	4TNU3	4TPR7
⅜"	4TNU4	4TPR8
½"	4TNU5	4TPR9
¾"	4TNU6	4TPT1
1"	4TNU7	4TPT2
1¼"	4TNU8	4TPT3
1½"	4TNU9	4TPT4
2"	4TNV1	4TPT5
3" Length		
⅛"	4TNV2	4TPT6
¼"	4TNV3	4TPT7
⅜"	4TNV4	4TPT8
½"	4TNV5	4TPT9
¾"	4TNV6	4TPU1
1"	4TNV7	4TPU2
1¼"	4TNV8	4TPU3
1½"	4TNV9	4TPU4
2"	4TNW1	4TPU5
3½" Length		
⅛"	4TNW2	4TPU6
¼"	4TNW3	4TPU7
⅜"	4TNW4	4TPU8
½"	4TNW5	4TPU9
¾"	4TNW6	4TPV1
1"	4TNW7	4TPV2
1¼"	4TNW8	4TPV3
1½"	4TNW9	4TPV4
2"	4TNX1	4TPV5

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
4" Length		
⅛"	4TNX2	4TPV6
¼"	4TNX3	4TPV7
⅜"	4TNX4	4TPV8
½"	4TNX5	4TPV9
¾"	4TNX6	4WJW4
1"	4TNX7	4WJW5
1¼"	4TNX8	4WJW6
1½"	4TNX9	4WJW7
2"	4TNY1	4WJW8
5" Length		
⅛"	4TNY2	4WJW9
¼"	4TNY3	4WJX1
⅜"	4TNY4	4WJX2
½"	4TNY5	4WJX3
¾"	4TNY6	4WJX4
1"	4TNY7	4WJX5
1¼"	4TNY8	4WJX6
1½"	—	4WJX7
2"	4TNZ1	4WJX8
6" Length		
⅛"	4TNZ2	4WJX9
¼"	4TNZ3	4WJY1
⅜"	4TNZ4	4WJY2
½"	4TNZ5	4WJY3
¾"	4TNZ6	4WJY4
1"	4TNZ7	4WJY5
1¼"	4TNZ8	4WJY6
1½"	4TNZ9	4WJY7
2"	4TPA1	4WJY8

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
8" Length		
⅛"	4TPA2	4WJY9
¼"	4TPA3	4WJZ1
⅜"	4TPA4	4WJZ2
½"	4TPA5	4WJZ3
¾"	4TPA6	4WJZ4
1"	4TPA7	4WJZ5
1¼"	4TPA8	4WJZ6
1½"	4TPA9	—
2"	—	4WJZ8
10" Length		
⅛"	4TPC2	4WJZ9
¼"	—	4WKA1
⅜"	4TPC4	4WKA2
½"	—	4WKA3
¾"	4TPC6	4WKA4
1"	4TPC7	4WKA5
1¼"	4TPC8	4WKA6
1½"	4TPC9	—
2"	4TPD1	—
12" Length		
⅛"	—	4WKA9
¼"	4TPD3	4WKC1
⅜"	4TPD4	4WKC2
½"	4TPD5	4WKC3
¾"	4TPD6	4WKC4
1"	4TPD7	—
1¼"	4TPD8	4WKC6
1½"	4TPD9	—
2"	4TPE1	4WKC8

GRAINGER APPROVED

Schedule 80 Stainless Steel Threaded Pipe



- Max. pressure: 250 psi
- Temp. range: -60° to 450°F

For applications with air, water, natural gas, and steam. 304 stainless steel is a chromium-nickel material that offers very good corrosion resistance. 316 stainless steel has a higher nickel content and molybdenum, for even greater corrosion resistance. NPT connections on both ends. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
18" Length		
⅛"	4TPE2	4WKC9
¼"	4TPE3	—
½"	4TPE5	—
¾"	4TPE6	4WKD4
1"	—	4WKD5
1¼"	4TPE8	—
1½"	4TPE9	—
2"	4TPF1	4WKD8
2 ft. Length		
⅛"	4TPF2	4WKD9
⅜"	4TPF4	4WKE2
½"	4TPF5	4WKE3
¾"	4TPF6	4WKE4
1"	4TPF7	4WKE5
1¼"	—	4WKE6
1½"	—	4WKE7
2"	—	4WKE8

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
3 ft. Length		
¼"	4TPG3	—
⅜"	—	4WKF2
½"	4TPG5	—
¾"	4TPG6	—
1"	4TPG7	—
1¼"	4TPG8	—
1½"	4TPG9	4WKF7
2"	4TPH1	—
4 ft. Length		
⅜"	4TPH4	4WKG2
½"	4TPH5	—
1"	—	4WKG5
1½"	4TPH9	—
2"	4TPJ1	4WKG8

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
5 ft. Length		
¼"	4TPJ3	4WKH1
⅜"	—	4WKH2
½"	4TPJ5	—
¾"	4TPJ6	—
1"	4TPJ7	—
1½"	—	4WKH7
2"	4TPK1	4WKH8
6 ft. Length		
⅛"	4TPK2	—
¼"	4TPK3	4WKJ1
⅜"	4TPK4	4WKJ2
½"	4TPK5	4WKJ3
¾"	4TPK6	—
1¼"	4TPK8	4WKJ6
1½"	4TPK9	4WKJ7
2"	4TPL1	—

Pipe Size (Nominal)	304 Stainless Steel Item No.	316 Stainless Steel Item No.
10 ft. Length		
¼"	4TPL3	4WKK1
½"	4TPL5	—
¾"	4TPL6	—
1"	—	4WKK5
1¼"	4TPL8	4WKK6
1½"	4TPL9	4WKK7

GRAINGER APPROVED

Stainless Steel Flanges and Weldable Outlets—Class 300

For use with Schedule 40 or 80 stainless steel pipe, in applications with air, water, natural gas, and steam.

FLANGES

- Max. pressure: 720 psi
- Steam pressure: 300 psi

Forged flanges have a raised face. Meet ASTM-SA182, ANSI B16.5, except Nos. 4HVL4 to 4HVP1 also meet ASME B1.20.1.

Threaded—Threads conform to ASME B1.20.1 NPT.

Lap Joint—Rotate for easy alignment with bolt holes. No fluid contact. For applications that require frequent dismantling. Not for high-pressure or high-temp. applications.

Socket Weld—Flange is counter-bored to accept pipe before being fillet welded; a lip supports pipe while welding.

Weld Neck—Circumferentially welded into the system at neck to allow easy radiographic weld integrity inspection. Ideal for use in critical applications.

Slip-On—Easy installation in fabricated applications; slip flange over the pipe and fillet weld.

Blind—Sometimes called a blanking flange; use to blank off pipelines, valves, and pumps, or as an inspection cover.

WELDABLE OUTLETS

- Max. pressure: 3000 psi

Use for making side connections to pipe. Forged construction. Meet MSS SP-97.






Pipe Size - Pipe Fitting	Outside Dia.	Threaded Flange Forged 304 Stainless Steel Item No.	Threaded Flange Forged 316 Stainless Steel Item No.	Lap Joint Flange Forged 316 Stainless Steel Item No.	Socket Weld Flange Forged 304 Stainless Steel Item No.	Socket Weld Flange Forged 316 Stainless Steel Item No.	Weld Neck Flange Forged 304 Stainless Steel Item No.	Weld Neck Flange Forged 316 Stainless Steel Item No.
Flanges								
½"	3¾"	4HVL4	4HVN4	—	4HVT4	4HVU4	4HVX4	—
¾"	4⅝"	4HVL5	4HVN5	—	—	4HVU5	4HVX5	4HVY5
1"	4⅞"	4HVL6	4HVN6	4HWA6	4HVT6	4HVU6	—	4HVY6
1¼"	5¼"	4HVL7	4HVN7	4HWA7	4HVT7	—	—	4HVY7
1½"	6⅛"	4HVL8	4HVN8	4HWA8	4HVT8	4HVU8	4HVX8	4HVY8
2"	6½"	4HVL9	4HVN9	4HWA9	4HVT9	—	4HVX9	4HVY9
2½"	7½"	4HVN1	4HVP1	—	4HVU1	4HVX1	4HVY1	4HVZ1
3"	8¼"	4HVN2	—	—	4HVU2	4HVX2	4HVY2	4HVZ2
4"	10"	4HVN3	—	—	4HVU3	4HVX3	4HVY3	4HVZ3






Pipe Size - Pipe Fitting	Outside Dia.	Slip-On Flange Forged 304 Stainless Steel Item No.	Slip-On Flange Forged 316 Stainless Steel Item No.	Blind Flange Forged 304 Stainless Steel Item No.	Blind Flange Forged 316 Stainless Steel Item No.
Flanges					
½"	3¾"	4HVP4	4HVR4	4HWC4	—
1"	4⅞"	4HVP6	4HVR6	4HWC6	4HWD6
1¼"	5¼"	4HVP7	—	—	—
1½"	6⅛"	4HVP8	4HVR8	4HWC8	4HWD8
2"	6½"	4HVP9	4HVR9	4HWC9	4HWD9
2½"	7½"	4HVR1	4HVT1	4HWD1	4HWE1
3"	8¼"	4HVR2	4HVT2	4HWD2	4HWE2
4"	10"	4HVR3	4HVT3	4HWD3	4HWE3
¾"	4⅝"	—	—	4HWC5	4HWD5

Pipe Size - Pipe Fitting	Outside Dia.	Threaded Outlet 304 Stainless Steel Item No.	Threaded Outlet 316 Stainless Steel Item No.	Weldable Outlet 304 Stainless Steel Item No.	Weldable Outlet 316 Stainless Steel Item No.
Weldable Outlets					
¼"	1"	4HWE4	4HWF3	4HWG2	4HWH1
⅜"	1¼"	4HWE5	4HWF4	4HWG3	4HWH2
½"	1 1/16"	4HWE6	—	—	—
½"	1⅜"	—	4HWF5	4HWG4	4HWH3
¾"	1 3/16"	—	—	4HWG5	—
¾"	1¾"	4HWE7	4HWF6	—	4HWH4
1"	1 9/64"	—	4HWF7	—	—
1"	2⅛"	4HWE8	—	4HWG6	4HWH5
1¼"	2 9/16"	4HWE9	4HWF8	4HWG7	4HWH6
1½"	2 51/64"	4HWF1	4HWF9	4HWG8	4HWH7
2"	3 27/64"	4HWF2	4HWG1	4HWG9	4HWH8

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Parker

316 Stainless Steel Instrumentation Pipe Fittings

- Temp. range: -425° to 1200°F

The 316 stainless steel has a higher nickel content, as well as molybdenum for better corrosion resistance. Use with water, steam, natural gas, hydraulic oil, and cryogenic gases. Meet ANSI B31.1, ANSI B31.3, and ANSI B1.20.1, except Nos. 5UNG6 to 5UNJ4 only meet ANSI B31.1.

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.	
Adapter FNPT x MNPT				
	⅛"	6400 psi	5UNG7	
Branch Tee FNPT x FNPT x MNPT				
	⅛"	5500 psi	5UNH4	
	¼"	5600 psi	1DGN3	
	⅜"	5000 psi	1DGN4	
	½"	4500 psi	1DGN5	
Cap FNPT				
	⅛"	6400 psi	1DGP9	
	¼"	6600 psi	1DGR1	
	⅜"	5300 psi	1DGR2	
	½"	5200 psi	1DGR3	
Close Pipe Nipple				
	⅛"	9100 psi @ 100°F	5UNH5	
	¼"	7500 psi @ 100°F	1DFX2	
	⅜"	7200 psi @ 100°F	1DFX3	
	½"	6600 psi @ 100°F	1DFX4	
	¾"	6400 psi @ 100°F	14M043	
Cross FNPT				
	¼"	5600 psi	5UNG9	
	⅜"	5000 psi	5UNH0	
	½"	4500 psi	5UNH1	
Elbow, 90° FNPT				
	⅛"	5500 psi	5UNH2	
	¼"	5600 psi	1DGH1	
	⅜"	5000 psi	1DGH2	
	½"	4500 psi	1DGH3	
	¾"	3500 psi	14M057	
Elbow, 90° MNPT				
	⅛"	9100 psi	5UNH6	
	¼"	7500 psi	1DGG1	
	⅜"	7200 psi	1DGG2	
	½"	5800 psi	1DGG3	
Hex Coupling FNPT				
	⅛"	6400 psi	5UNH3	
	¼"	6600 psi	1DGB8	
	⅜"	5300 psi	1DGC1	
	⅜" x ¼"	5300 psi	1DGB9	
	½"	5200 psi	1DGC4	
	¾"	4300 psi	14M053	
	¾" x ½"	4300 psi	14M052	
Hex Head Plug MNPT				
	⅛"	9700 psi	1DGR8	
	¼"	8000 psi	1DGR9	
	⅜"	7600 psi	1DGT1	
	½"	7000 psi	1DGT2	
	¾"	6400 psi	14M061	
Hex Long Nipple MNPT				
	¼"	7500 psi	1DFV6	*
	¼"	7500 psi	1DFV7	†
	¼"	7500 psi	1DFV8	‡
	⅜"	7200 psi	1DFV9	*
	⅜"	7200 psi	1DFW1	†
	⅜"	7200 psi	1DFW2	‡
	½"	6600 psi	1DFW3	*
	½"	6600 psi	1DFW4	‡
	¾" x ¼"	6400 psi	14M048	**
	¾" x ½"	6400 psi	14M049	#
	¾"	6400 psi	14M050	*
	¾"	6400 psi	14M062	‡
Hex Nipple MNPT				
	⅛"	9100 psi	5UNH7	
	¼"	7500 psi	1DFZ8	
	¼" x ⅛"	7500 psi	1DFZ7	
	⅜"	7200 psi	1DGA1	
	⅜" x ¼"	7200 psi	1DFZ9	
	½"	6600 psi	1DGA4	
	½" x ¼"	6600 psi	1DGA2	
	½" x ⅜"	6600 psi	1DGA3	

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.
Hex Reducing Coupling FNPT			
	¼" x ⅛"	6600 psi	1DGB7
	½" x ¼"	5200 psi	1DGC2
	½" x ⅜"	5200 psi	1DGC3
	¾" x ¼"	4300 psi	14M051
Hollow Hex Plug MNPT			
	⅛"	9100 psi	1DGU2
	¼"	7500 psi	1DGU3
	⅜"	7200 psi	1DGU4
Reducing Adapter FNPT x MNPT			
	¼" x ⅛"	6600 psi	1DFX8
	⅜" x ⅛"	5300 psi	1DFX9
	⅜" x ¼"	5300 psi	1DFY1
	½" x ⅛"	5200 psi	1DFY2
	½" x ¼"	5200 psi	1DFY3
	½" x ⅜"	5200 psi	1DFY4
	¾"	4300 psi	14M047
	¾" x ¼"	4300 psi	14M044
	¾" x ⅜"	4300 psi	14M045
	¾" x ½"	4300 psi	14M046
Reducing Bushing MNPT x FNPT			
	¼" x ⅛"	6000 psi	1DGE1
	⅜" x ⅛"	6400 psi	1DGE2
	⅜" x ¼"	5300 psi	1DGE3
	½" x ⅛"	6600 psi	1DGE4
	½" x ¼"	6400 psi	1DGE5
	½" x ⅜"	4600 psi	1DGE6
	¾" x ¼"	6400 psi	14M054
	¾" x ⅜"	5300 psi	14M055
	¾" x ½"	4900 psi	14M056
Street Elbow MNPT x FNPT			
	¼"	5600 psi	1DGJ2
	⅜"	5600 psi	1DGJ3
	½"	4500 psi	1DGJ4
Street Elbow, 45° FNPT x MNPT			
	⅛"	5500 psi	5UNJ1
	¼"	5600 psi	5UNJ2
	⅜"	5000 psi	5UNJ3
Street Elbow, 90° MNPT x FNPT			
	⅛"	5500 psi	5UNJ0
	¾"	3500 psi	14M058
Street Tee FNPT x MNPT x FNPT			
	¼"	5600 psi	1DGL3
	⅜"	5000 psi	1DGL4
	½"	4500 psi	1DGL5
	¾"	3500 psi	14M060
	⅛"	5500 psi	5UNJ4
Tee FNPT			
	⅛"	5500 psi	5UNG6
	¼"	5600 psi	1DGK3
	⅜"	5000 psi	1DGK4
	½"	4500 psi	1DGK5
	¾"	3500 psi	14M059
Tee MNPT			
	¼"	8000 psi	1DGP3
	⅜"	7600 psi	1DGP4
	½"	6200 psi	1DGP5

**2"L. †2.5"L. ‡3"L. #1.48"L. **1.78"L.*

VNE

Sanitary Stainless Steel Tube and Clamp Fittings

Clamp connections allow easy assembly and disassembly of process lines and equipment. 180 Grit I.D./150 Grit O.D. surface finish. Unions connect with heavy-duty clamps and sanitary gaskets. 3-A Certified. Gaskets sold on page 2789.

Description	Tube Size	T304 SS Item No.	T316L SS Item No.
Concentric Reducer, Clamp			
	1½" x 1"	11P821	11P832
	2" x 1"	11P822	11P833
	2" x 1½"	11P823	11P834
	2½" x 1½"	11P824	11P835
	2½" x 2"	11P825	11P836
	3" x 1½"	11P826	11P837
	3" x 2"	11P827	11P838
	3" x 2½"	11P828	11P839
	4" x 2"	11P829	11P840
	4" x 2½"	11P830	11P841
	4" x 3"	11P831	11P842
Elbow, 45°, Clamp			
	1"	11D024	11D030
	1½"	11D025	11D031
	2"	11D026	11D032
	2½"	11D027	11D033
	3"	11D028	11D034
	4"	11D029	11D035
Elbow, 90°, Clamp			
	1"	11D012	11D018
	1½"	11D013	11D019
	2"	11D014	11D020
	2½"	11D015	11D021
	3"	11D016	11D022
	4"	11D017	11D023
Elbow, 90°, Clamp x Butt Weld			
	1"	11P867	11P873
	1½"	11P868	11P874
	2"	11P869	11P875
	2½"	11P870	11P876
	3"	11P871	11P877
	4"	11P872	11P878
Equal Tee, Clamp			
	1"	11D036	11L870
	1½"	11D037	11L871
	2"	11D038	11L872
	2½"	11L867	11L873
	3"	11L868	11L874
	4"	11L869	11L875
Female Adapter, Clamp x FNPT			
	1"	11P779	11P785
	1½"	11P780	11P786
	2"	11P781	11P787
	2½"	11P782	11P788
	3"	11P783	11P789
	4"	11P784	11P790
Ferrule, Clamp			
	1"	11L876	11L884
	1½"	11L877	11L885
	2"	11L878	11L886
	2½"	11L879	11L887
	3"	11L880	11L888
	4"	11L881	11L889
Heavy Wall Tank Ferrule, Clamp			
	1"	11L917	11L923
	1½"	11L918	11L924
	2"	11L919	11L925
	2½"	11L920	11L926
	3"	11L921	11L927
	4"	11L922	11L928

Description	Tube Size	T304 SS Item No.	T316L SS Item No.
Hose Barb Adapter, Clamp x Hose Barb			
	½"	—	11L947
	¾"	—	11L948
	1"	11L941	11L949
	1½"	11L942	11L950
	2"	11L943	11L951
	2½"	11L944	11L952
	3"	11L945	11P765
	4"	11L946	11P766
Long Tank Ferrule, Clamp			
	1"	11L929	11L935
	1½"	11L930	11L936
	2"	11L931	11L937
	2½"	11L932	11L938
	3"	11L933	11L939
	4"	11L934	11L940
Male Adapter, Clamp x MNPT			
	1"	11P767	11P773
	1½"	11P768	11P774
	2"	11P769	11P775
	2½"	11P770	11P776
	3"	11P771	11P777
	4"	11P772	11P778
Roll-On Ferrule, Clamp			
	1"	11L890	11L896
	1½"	11L891	11L897
	2"	11L892	11L898
	2½"	11L893	11L899
	3"	11L894	11L901
	4"	11L895	11L902
Short Ferrule, Clamp			
	½"	—	11L909
	¾"	—	11L910
	1"	11L903	11L911
	1½"	11L904	11L912
	2"	11L905	11L913
	2½"	11L906	11L914
	3"	11L907	11L915
	4"	11L908	11L916
Solid End Cap, Clamp			
	½" x ¾"	—	11P797
	1" x 1½"	—	11P798
	1½"	11P791	—
	2"	11P792	11P799
	2½"	11P793	11P801
	3"	11P794	11P802
	4"	11P795	—
	6"	11P796	—

Get More Online

For our full selection of **Sanitary Stainless Steel Tubing and Spools** go to **Grainger.com®**.



VNE

Sanitary Stainless Steel Clamps and Hangers

Clamps are O.D. polished to a smooth finish and are used with 3-A Certified fittings. Hangers have hexagonal shape with either Alcryn® grommets or polypropylene inserts.



For Tube Size	T304 Stainless Steel: 3-Piece Segment Clamp Item No.	Heavy Duty Clamp Item No.	High-Pressure Clamp Item No.	E-Line Clamp Item No.
Clamps				
½" and ¾"	—	11P804	11P815	—
1" and 1½"	11P810	11P805	11P816	11P985
2"	11P811	11P806	11P817	11P986
2½"	11P812	11P807	11P818	11P987
3"	11P813	11P808	11P819	11P988
4"	11P814	11P809	11P820	11P989



For Tube Size	Hex Hanger with Grommets, T304 SS/Alcryn Item No.	Hex Hanger with Insert, T304 SS/PVC Item No.
Hangers		
½"	11R108	11R116
¾"	11R109	11R117
1"	11R110	11R118
1½"	11R111	11R119
2"	11R112	11R120
2½"	11R113	11R121
3"	11R114	11R122
4"	11R115	11R123


No. 12N559


No. 12N574


No. 5PYJ3


No. 5PYJ9


No. 38R089


No. 38R184

Rubber Fab
a Garlock Hygienic Technologies company

Sanitary Gaskets

Tri-Clamp®—Gaskets are used to seal clamp connections in sanitary pipe lines. For use in the beverage, biotech, dairy, food, pharmaceutical, and other sanitary process applications. Buna N material does not meet USP Class VI and is not ADI free.

Tri-Clamp® Detectomer® Metal Detectable/X-Ray Inspectable—Allow metal and x-ray detection equipment to instantly locate and reject products contaminated with displaced gasket material.

Bevel Seat—Designed for use in sanitary piping systems in the beverage, dairy, food, and pharmaceutical industries.

Tri-Clamp® Screen—Help eliminate particulates to protect fill and finish sterile products, spray balls, and spray nozzles.

Orifice Plate—Allow flow rate adjustment, backflow balance, and back pressure equalization during sterilizing in place (SIP) procedures.

I-Line and Q-Line—Designed for use in sanitary piping systems in the beverage, dairy, food, and pharmaceutical industries.

Tuf-Flex®—Innovative unitized gasket has high standards for flexibility, performance, and purity. Specifically designed for critical requirements in biotechnology, pharmaceutical, ultrapure water, and WFI (water-for-injection) applications.

Sock Screen—Extended sock-shaped mesh gaskets are inserted into the inside of stainless steel tubing and provide filtration for a greater soil retention. Offer up to 300% more open area for 300% more soil collection capability than conventional screens.

Temp. Chart	
BUNA	-30 to 200°F
EPDM	-30 to 300°F
PTFE	-100 to 500°F
Silicone	-40 to 450°F
FKM	-30 to 400°F
Tuf-Flex®	-20 to 300°F

Tube Size	EPDM Item No.	BUNA Item No.	PTFE Item No.	Platinum Silicone Item No.	FKM Item No.
Tri-Clamp® Gaskets					
½"	5PXY1	5PXZ0	5PYC7	5PYA8	5PXZ9
¾"	5PXY2	5PXZ1	5PYC8	5PYA9	5PYA0
1"	5PXY3	5PXZ2	5PYC9	5PYC0	5PYA1
1½"	5PXY4	5PXZ3	5PYD0	5PYC1	5PYA2
2"	5PXY5	5PXZ4	5PYD1	5PYC2	5PYA3
2½"	5PXY6	5PXZ5	5PYD2	5PYC3	5PYA4
3"	5PXY7	5PXZ6	5PYD3	5PYC4	5PYA5
4"	5PXY8	5PXZ7	5PYD4	5PYC5	5PYA6
6"	5PXY9	5PXZ8	5PYD5	5PYC6	5PYA7

Tube Size	BUNA Item No.	EPDM Item No.	FKM Item No.	Silicone Item No.	TUF-STEEL® Item No.
Tri-Clamp® Detectomer® Metal Detectable/X-Ray Inspectable Sanitary Gaskets					
1"	12N554	11Z819	11Z827	12N562	12N570
1½"	12N555	11Z820	11Z828	12N563	12N571
2"	12N556	11Z821	11Z829	12N564	12N572
2½"	12N557	11Z822	11Z830	12N565	12N573
3"	12N558	11Z823	11Z831	12N566	12N574
4"	12N559	11Z824	11Z832	12N567	12N575

Tube Size	BUNA-Flat Item No.	BUNA-BSB Item No.	TUF-STEEL® Item No.
Bevel Seat			
1"	5PYD6	5PYK5	—
1½"	5PYD7	5PYK6	35YX27
2"	5PYD8	5PYK7	35YX28
2½"	5PYD9	5PYK8	35YX29
3"	5PYE0	5PYK9	35YX30
4"	5PYE1	5PYL0	—

Tube Size	BUNA Item No.
Tri-Clamp® Screen Gaskets	
1"	5PYJ3
1½"	5PYJ4
2"	5PYJ5
2½"	5PYJ6
3"	5PYJ7
4"	5PYJ8

Tube Size	BUNA w/Stainless Plate Item No.
Orifice Plate	
1"	5PYJ9
1½"	5PYK0
2"	5PYK1
2½"	5PYK2
3"	5PYK3
4"	5PYK4

Tube Size	PTFE Item No.	TUF-STEEL® Item No.
I-Line		
1"	5PYL1	—
1½"	5PYL2	—
2"	5PYL3	35YX31
2½"	5PYL4	35YX32
3"	5PYL5	35YX25
4"	5PYL6	35YX24

Tube Size	PTFE/EPDM Item No.
Tuf-Flex® Gasket	
½"	38R086
¾"	38R087
1"	38R088
1½"	38R089
2"	38R090
2½"	38R091
3"	38R092
4"	38R093
6"	38R094

Tube Size	Item No.
Q-Line	
4"	35YX26

Tube Size	BUNA-10 SS Mesh Item No.	BUNA-16 SS Mesh Item No.	EPDM-10 SS Mesh Item No.	EPDM-16 SS Mesh Item No.	FKM-10 SS Mesh Item No.	FKM-16 SS Mesh Item No.	Silicone-10 SS Mesh Item No.	Silicone-16 SS Mesh Item No.
Sock Screen Gaskets								
1½"	38R184	38R186	38R188	38R190	38R192	38R194	38R196	38R198
2"	38R185	38R187	38R189	38R191	38R193	38R195	38R197	38R199

GA GRAINGER APPROVED

Sanitary Stainless Steel Butterfly Valves

- Max. pressure: 145 psi
- Temp. range: 15° to 266°F

Feature 32 Ra I.D. surface finish, silicon seats, and clamp-style connection.


No. 53CT94

Tube Size	Overall Length	Body & Disc Material: T304 Stainless Steel Item No.	Body & Disc Material: T316L Stainless Steel Item No.
Trigger			
1"	2 19/32"	53CT94	53CU01
1½"	2¾"	53CT95	53CU02
2"	3"	53CT96	53CU03
2½"	3 5/32"	53CT97	53CU04
3"	3 5/16"	53CT98	53CU05
4"	4 3/32"	53CT99	53CU06

GA GRAINGER APPROVED

Sanitary Stainless Steel 2-Way Ball Valves

- Temp. range: -65° to 320°F

Design allows for unrestricted flow through valve. Can be serviced without complete removal from line. 316 stainless steel construction with PTFE seats. 20 Ra I.D. finish. Full port style. Blowout-proof stem. Pad lockable handle is AISI-304 stainless steel. Seats in compliance with FDA Regulations.


No. 11A421

Pipe Size	Overall Length	Item No.
Clamp x Clamp		
½"	3½"	11A421
¾"	4"	11A422
1"	4½"	11A423
1½"	5½"	11A424
2"	6 9/64"	11A425
2½"	7¾"	11A426
3"	9"	11A427
4"	9 9/16"	11A428

Pipe Size	Overall Length	Item No.
Butt Weld x Butt Weld		
½"	3½"	11A429
¾"	4"	11A430
1"	4½"	11A431
1½"	6 9/64"	11A432
2"	6 9/64"	11A433
2½"	7¾"	11A434
3"	9"	11A435
4"	9 9/16"	11A436

Red Brass Fittings—Class 125

GRAINGER APPROVED

- Max. pressure: 125 psi
- Temp. range: -20° to 400°F, except Raised Square Plugs are -20° to 300°F

Resist corrosion from water, heat, saltwater, acids, minerals, and soils. Ideal for use with air, water, natural gas, and steam. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Pipe Size - Pipe Fitting	Item No.
Cap, FNPT		
	⅛"	1VFF9
	¼"	1VFG2
	⅜"	1VFG4
	½"	1VFG6
	¾"	1VFG8
	1"	1VFH1
	1¼"	1VFH3
	1½"	1VFH5
	2"	1VFH7
	2½"	1VFH9
	3"	1VFJ2
Cored Plug, MNPT		
	½"	1VFR3
	¾"	1VFR5
	1"	1VFR7
	1¼"	1VFR9
	1½"	1VFT2
	2"	1VFT4
	2½"	1VFT6
	3"	1VFT8
Coupling, FNPT		
	⅛"	1VFD3
	¼"	1VFD5
	⅜"	1VFD7
	½"	1VFD9
	¾"	1VFE2
	1"	1VFE4
	1¼"	1VFE6
	1½"	1VFE8
	2"	1VFF1
	2½"	1VFF3
	3"	1VFF5
Cross, FNPT		
	¼"	1VFB5
	⅜"	1VFB7
	½"	1VFB9
	¾"	1VFC2
	1"	1VFC4
Elbow, 45°, FNPT		
	⅜"	1VEU7
	½"	1VEU8
	¾"	1VEU9
	1"	1VEV1
	1¼"	1VEV2
	1½"	1VEV3
	2"	1VEV5
Elbow, 90°, FNPT		
	⅛"	1VER5
	¼"	1VER6
	⅜"	1VER7
	½"	1VER8
	¾"	1VER9
	1"	1VEU1
	1¼"	1VEU2
	1½"	1VEU3
	2"	1VEU4
	2½"	2CFJ3
	3"	2CFJ4

Description	Pipe Size - Pipe Fitting	Item No.
Flange, FNPT		
	½"	4TJJ7
	1"	4TJJ9
	1¼"	4TJK1
	1½"	4TJK2
	2"	4TJK3
Hex Bushing, MNPT x FNPT		
	¼" x ⅛"	1VFV3
	⅜" x ⅛"	1VFV5
	⅜" x ¼"	1VFV7
	½" x ⅛"	1VFV9
	½" x ¼"	1VFX2
	½" x ⅜"	1VFX4
	¾" x ⅛"	1VFX6
	¾" x ¼"	1VFX8
	¾" x ⅜"	1VFY1
	¾" x ½"	1VFY3
	1" x ¼"	1VFY5
	1" x ⅜"	1VFY7
	1" x ½"	1VFY9
	1" x ¾"	1VFZ2
	1¼" x ¾"	1VFZ4
	1¼" x 1"	1VFZ6
	1½" x ¾"	1VFZ8
	1½" x 1"	1VGA1
	1½" x 1¼"	1VGA3
	2" x ¾"	1VGA5
	2" x 1"	1VGA7
	2" x 1¼"	1VGA9
	2" x 1½"	1VGB2
	2½" x 2"	1VGB4
	3" x 2"	1VGB6
	3" x 2½"	1VGB8
	4" x 3"	1VGC1
Raised Square Head Plug, MNPT		
	1¼"	1RLV9
	1½"	1RLW1
	2"	1RLW2
	2½"	1RLW3
	3"	1RLW4
	4"	1RLW5
Reducing Coupling, FNPT		
	¼" x ⅛"	1VGC3
	⅜" x ¼"	1VGC5
	½" x ¼"	1VGC9
	½" x ⅜"	1VGD2
	¾" x ⅜"	1VGD6
	¾" x ½"	1VGD8
	1" x ½"	1VGE1
	1" x ¾"	1VGE3
	1¼" x ¾"	1VGE5
	1¼" x 1"	1VGE7
	1½" x 1"	1VGE9
	1½" x 1¼"	1VGF2
	2" x 1"	1VGF4
	2" x 1¼"	1VGF6
	2" x 1½"	1VGF8
	2½" x 2"	1VGG1
	3" x 2"	2CFL5

Description	Pipe Size - Pipe Fitting	Item No.
Reducing Tee (run x run x outlet), FNPT		
	½" x ½" x ¼"	2CFG8
	½" x ½" x ⅜"	2CFG7
	¾" x ¾" x ½"	2CFH1
	1" x 1" x ⅜"	2CFH2
	1" x 1" x ½"	2CFH4
	1½" x 1½" x ½"	2CFH7
	1½" x 1½" x 1"	2CFH8
	2" x 2" x ¾"	2CFH9
	3" x 3" x 2"	2CFJ2
Solid Plug, MNPT		
	⅛"	1VFP6
	¼"	1VFP8
	⅜"	1VFR1
Street Elbow, 45°, MNPT x FNPT		
	¼"	1VEX5
	¾"	1VEY2
	1"	1VEY4
	2"	2CFK5
Street Elbow, 90°, MNPT x FNPT		
	⅛"	1VEV6
	¼"	1VEV7
	⅜"	1VEV9
	½"	1VEW2
	¾"	1VEW3
	1"	1VEW4
	1¼"	1VEW6
	1½"	1VEW8
	2"	1VEX1
Tee, FNPT		
	⅛"	1VEY6
	¼"	1VEY8
	⅜"	1VEZ1
	½"	1VEZ3
	¾"	1VEZ5
	1"	1VEZ7
	1¼"	1VEZ9
	1½"	1VFA2
	2"	1VFA4
	3"	1VFA8
Union, FNPT		
	⅛"	1VFJ6
	¼"	1VFJ8
	⅜"	1VFK1
	½"	1VFK3
	¾"	1VFK5
	1"	1VFK7
	1¼"	1VFK9
	1½"	1VFL2
	2"	1VFL4
	2½"	1VFL6
	3"	1VFL8

Lead-Free Red Brass Fittings—Class 125

GRAINGER APPROVED

- Max. pressure: 125 psi
- Temp. range: -20° to 400°F

Resist corrosion from water, heat, saltwater, acids, minerals, and heavy soils. Ideal for use with air, water, natural gas, and steam in commercial and residential buildings. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Pipe Size - Pipe Fitting	Item No.
Bushing, MNPT x FNPT		
	¼" x ⅛"	22UL34
	⅜" x ⅛"	22UL35
	⅜" x ¼"	22UL36
	½" x ⅛"	22UL37
	¾" x ¼"	22UL39
	¾" x ⅜"	22UL40
	1" x ¼"	22UL41
	1" x ⅜"	22UL42
	1½" x ¾"	22UL43
	2" x ¾"	22UL44
	2" x 1"	22UL45
Cap, FNPT		
	⅛"	22UL24
	¼"	6RCX9
	⅜"	6RCY0
	½"	6RCY1
	¾"	6RCY2
	1"	6RCY5
	1¼"	6RCY3
	1½"	6RCY6
	2"	6RCY4
Cored Plug, MNPT		
	½"	6RCU9
	¾"	6RCV0
	1"	6RCV1
	1¼"	6RCV2
	2"	6RCV3

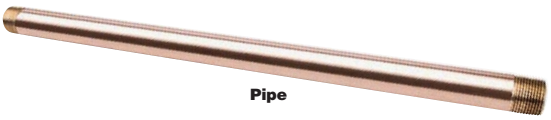
Description	Pipe Size - Pipe Fitting	Item No.
Countersink Plug, MNPT		
	½"	22UL64
	1"	22UL66
	1½"	22UL67
	2"	22UL68
Coupling, FNPT		
	⅛"	22UL23
	¼"	6RCV4
	⅜"	6RCV5
	⅜" x ¼"	22UL47
	½"	6RCV6
	¾"	6RCV7
	1"	6RCV8
	1¼"	6RCV9
	1¼" x ¾"	22UL51
	1¼" x 1"	22UL52
	1½"	6RCW0
	1½" x 1"	22UL53
	1½" x 1¼"	22UL54
	2"	6RCW1
Cross, FNPT		
	¼"	22UL18
	⅜"	22UL19
	½"	22UL20
	¾"	22UL21
	1"	22UL22

Description	Pipe Size - Pipe Fitting	Item No.
Elbow, 45°, FNPT		
	¼"	22UL02
	⅜"	6RCT7
	½"	6RCT8
	¾"	6RCT9
	1"	22UL03
	1¼"	6RCU0
	1½"	22UL04
	2"	6RCU1
Elbow, 90°, FNPT		
	⅛"	22UK98
	¼"	6RCU2
	⅜"	6RCU3
	½"	6RCU4
	¾"	6RCU5
	1"	6RCU7
	1¼"	22UK99
	1½"	6RCU8
	2"	6RCU6
Hex Bushing, MNPT x FNPT		
	½" x ¼"	6RCW2
	½" x ⅜"	6RCW3
	¾" x ½"	6RCW4
	1" x ½"	6RCW5
	1" x ¾"	6RCW6
	1¼" x ¾"	6RCW7
	1¼" x 1"	6RCW8
	1½" x 1"	6RCW9
	1½" x 1¼"	6RCX0
	2" x 1¼"	6RCX1
	2" x 1½"	6RCX2

Description	Pipe Size - Pipe Fitting	Item No.
Plug, MNPT		
	⅛"	22UL32
	1½"	22UL33
Reducing Coupling, FNPT		
	¼" x ⅛"	22UL46
	½" x ¼"	6RCY7
	½" x ⅜"	6RCY8
	¾" x ¼"	22UL49
	¾" x ⅜"	22UL50
	¾" x ½"	6RCY9
	1" x ½"	6RCZ0
	1" x ¾"	6RCZ1
	2" x 1"	22UL55
	2" x 1¼"	22UL56
	2" x 1½"	22UL57
Reducing Tee (run x run x outlet), FNPT		
	½" x ½" x ¼"	22UL60
	¾" x ½" x ¾"	22UL61
	¾" x ¾" x ½"	6RCZ2
Solid Plug, MNPT		
	¼"	6RCZ4
	⅜"	6RCZ5
Street Elbow, 45°, MNPT x FNPT		
	¼"	22UL11
	⅜"	22UL12
	½"	22UL13
	¾"	22UL14
	1"	22UL15
	1¼"	22UL62
	1½"	22UL63

Description	Pipe Size - Pipe Fitting	Item No.
Street Elbow, 90°, MNPT x FNPT		
	⅛"	22UL05
	¼"	6RCX5
	⅜"	22UL06
	½"	6RCX6
	¾"	6RCX7
	1"	6RCX8
	1¼"	22UL07
	1½"	22UL08
	2"	22UL09
Tee, FNPT		
	⅛"	22UL16
	¼"	6RCZ6
	⅜"	6RCZ7
	½"	6RCZ8
	¾"	6RCZ9
	1"	6RDA1
	1¼"	6RDA0
	1½"	6RDA2
	2"	6RDA3
Union, FNPT		
	¼"	6RDA4
	⅜"	22UL26
	½"	6RDA5
	¾"	6RDA6
	1"	6RDA9
	1¼"	6RDA7
	1½"	6RDC0
	2"	6RDA8





Schedule 40 Red Brass Threaded Nipples and Pipe

GA GRAINGER APPROVED

- Max. pressure: 125 psi
- Temp. range: -20° to 400°F

Resist corrosion from water, heat, saltwater, acids, minerals, and soils. Have MNPT connections and are suitable for air, water, oil, natural gas, and steam applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	Nipples Item No.
Close Thread	
⅛ in	1VGG3
¼ in	1VGJ3
⅜ in	1VGL3
½ in	1VGP3
¾ in	1VGT3
3 in	1VHD8
4 in	1VHE4
1½" Length	
⅛ in	1VGG5
¼ in	1VGJ5
⅜ in	1VGL5
½ in	1VGP5
¾ in	1VGT5
1 in	1VGV3
1⅝" Length	
1 ¼ in	1VGX1
1¾" Length	
1 ½ in	1VGY8
2" Length	
⅛ in	1VGG7
¼ in	1VGJ7
⅜ in	1VGL7
½ in	1VGP7
¾ in	1VGT7
1 in	1VGV5
1 ¼ in	1VGX3
1 ½ in	1VGZ1
2 in	1VHA9
2½" Length	
⅛ in	1VGG9
¼ in	1VGJ9
⅜ in	1VGL9
½ in	1VGP9
¾ in	1VGT9
1 in	1VGV7
1 ¼ in	1VGX5
1 ½ in	1VGZ4
2 in	1VHB2
2 ½ in	1VHC5

Pipe Size (Nominal)	Nipples Item No.
3" Length	
⅛ in	1VGH2
¼ in	1VGK2
⅜ in	1VGN2
½ in	1VGR2
¾ in	1VGU2
1 in	1VGV9
1 ¼ in	1VGX7
1 ½ in	1VGZ7
2 in	1VHB4
2 ½ in	1VHC7
3 in	1VHD9
4 in	1VHE5
3½" Length	
⅛ in	1VGH4
¼ in	1VGK4
⅜ in	1VGN4
½ in	1VGR4
¾ in	1VGU4
1 in	1VGW2
1 ¼ in	1VGX9
1 ½ in	1VHA1
2 in	1VHB6
2 ½ in	1VHC9
4" Length	
⅛ in	1VGH6
¼ in	1VGK6
⅜ in	1VGN6
½ in	1VGR6
¾ in	1VGU6
1 in	1VGW4
1 ¼ in	1VGY2
1 ½ in	1VHA3
2 in	1VHB8
2 ½ in	1VHD2
3 in	1VHE1
5" Length	
⅛ in	1VGH8
¼ in	1VGK8
⅜ in	1VGN8
½ in	1VGR8
¾ in	1VGU8
1 in	1VGW6
1 ¼ in	1VGY4
1 ½ in	1VHA5
2 in	1VHC1
2 ½ in	1VHD4

Pipe Size (Nominal)	Nipples Item No.
6" Length	
⅛ in	1VGJ1
¼ in	1VGL1
⅜ in	1VGP1
½ in	1VGT1
¾ in	1VGV1
1 in	1VGW8
1 ¼ in	1VGY6
1 ½ in	1VHA7
2 in	1VHC3
2 ½ in	1VHD6
3 in	1VHE3
6½" Length	
⅛ in	4GRX5
¼ in	4GRX6
⅜ in	4GRX7
½ in	4GRX8
1 in	4GRY1
1 ¼ in	4GRY2
1 ½ in	4GRY3
2 ½ in	4GRY5
3 in	4GRY6
7" Length	
⅛ in	4GRY8
¼ in	4GRY9
⅜ in	4GRZ1
½ in	4GRZ2
¾ in	4GRX9
¾ in	4GRZ3
1 in	4GRZ4
1 ¼ in	4GRZ5
1 ½ in	4GRZ6
2 in	4GRZ7
3 in	4GRZ9
8" Length	
⅛ in	4GTA2
¼ in	4GTA3
⅜ in	4GTA4
½ in	4GTA5
¾ in	4GTA6
1 in	4GTA7
1 ¼ in	4GTA8
1 ½ in	4GTA9
2 in	4GTC1
2 ½ in	4GTC2
3 in	4GTC3

Pipe Size (Nominal)	Nipples Item No.
9" Length	
⅛ in	4GTC5
¼ in	4GTC6
⅜ in	4GTC7
½ in	4GTC8
¾ in	4GTC9
1 in	4GTD1
1 ¼ in	4GTD2
1 ½ in	4GTD3
2 in	4GTD4
10" Length	
⅛ in	4GTD8
¼ in	4GTD9
⅜ in	4GTE1
½ in	4GTE2
¾ in	4GTE3
1 in	4GTE4
1 ¼ in	4GTE5
1 ½ in	4GTE6
2 in	4GTE7
2 ½ in	4GTE8
3 in	4GTE9
11" Length	
⅛ in	4GTF2
¼ in	4GTF3
⅜ in	4GTF4
½ in	4GTF5
¾ in	4GTF6
1 in	4GTF7
1 ¼ in	4GTF8
1 ½ in	4GTF9
2 ½ in	4GTG2
12" Length	
⅛ in	4GTG5
¼ in	4GTG6
⅜ in	4GTG7
½ in	4GTG8
¾ in	4GTG9
1 in	4GTH1
1 ¼ in	4GTH2
1 ½ in	4GTH3
2 in	4GTH4
2 ½ in	4GTH5
3 in	4GTH6

Pipe Size (Nominal)	Pipe Item No.
18" Length	
⅛ in	4GTH8
¼ in	4GTH9
⅜ in	4GTJ1
½ in	4GTJ2
1 in	4GTJ4
1 ¼ in	4GTJ5
2 ft. Length	
⅛ in	4GTJ9
¼ in	4GTK1
⅜ in	4GTK2
½ in	4GTK3
¾ in	4GTK4
1 in	4GTK5
1 ¼ in	4GTK6
1 ½ in	4GTK7
2 in	4GTK8
3 ft. Length	
⅛ in	4GTL1
¼ in	4GTL2
⅜ in	4GTL3
½ in	4GTL4
1 in	4GTL6
1 ¼ in	4GTL7
1 ½ in	4GTL8
2 in	4GTL9
4 ft. Length	
⅛ in	4GTN2
¼ in	4GTN3
½ in	4GTN5
¾ in	4GTN6
1 ¼ in	4GTN8
5 ft. Length	
¼ in	4GTP4
¾ in	4GTP7
1 in	4GTP8
2 in	4GTR2
2 ½ in	4GTR3
6 ft. Length	
⅛ in	4GTR4
¼ in	4GTR5
⅜ in	4GTR6
¾ in	4GTR8
1 in	4GTR9
1 ¼ in	4GTT1
1 ½ in	4GTT2
2 in	4GTT3

Chrome-Plated Brass Fittings—Class 125

GA GRAINGER APPROVED

- Max. pressure: 125 psi
- Temp. range: 60° to 250°F

Generally used in hospitals, schools, commercial bathroom installations, and other plumbing applications where yellow brass cannot be used. NPT connections. Meet ANSI B16.24 and ANSI B16.15.

Description	Pipe Size - Pipe Fitting	Item No.
Cap, FNPT		
	⅛"	2UEG7
	¼"	2UEG8
	⅜"	2UEG9
	½"	2UEH1
	¾"	2UEH2
	1"	2UEH3
Coupling, FNPT		
	⅛"	2UEA9
	¼"	2UEC1
	⅜"	2UEE9
	½"	2UEF1
	¾"	2UEF2
	1"	2UEF3
Cross, FNPT		
	⅛"	2UEE3
	¼"	2UEE4
	⅜"	2UEE5
	½"	2UEE6
	¾"	2UEE7
	1"	2UEE8
Elbow, 45°, FNPT		
	⅛"	2UEG1
	¼"	2UEG2
	⅜"	2UEG3
	½"	2UEG4
	¾"	2UEG5
	1"	2UEG6

Description	Pipe Size - Pipe Fitting	Item No.
Elbow, 90°, FNPT		
	⅛"	2UEC9
	¼"	2UED1
	⅜"	2UED2
	½"	2UED3
	¾"	2UED4
	1"	2UED5
Hex Bushing, FNPT x MNPT		
	¼" x ⅛"	2UEH8
	⅜" x ⅛"	2UEH9
	⅜" x ¼"	2UEJ1
	½" x ⅛"	2UEJ2
	½" x ¼"	2UEJ3
	½" x ⅜"	2UEJ4
	¾" x ⅛"	2UEJ5
	¾" x ¼"	2UEJ6
	¾" x ⅜"	2UEJ7
	¾" x ½"	2UEJ8
	1" x ¼"	2UEJ9
	1" x ¾"	2UEK2
Hex Bushing, MNPT x FNPT		
	1" x ½"	2UEK1
Locknut, FNPT		
	⅛"	2UEK3
	¼"	2UEK4
	⅜"	2UEK5
	½"	2UEK6
	¾"	2UEK7
	1"	2UEK8

Description	Pipe Size - Pipe Fitting	Item No.
Reducing Coupling, FNPT		
	¼" x ⅛"	2UEL6
	⅜" x ¼"	2UEL7
	½" x ⅛"	2UEL8
	½" x ¼"	2UEL9
	½" x ⅜"	2UEN1
	¾" x ¼"	2UEN2
	¾" x ⅜"	2UEN3
	¾" x ½"	2UEN4
	1" x ½"	2UEN5
	1" x ¾"	2UEN6
Square Head Plug, MNPT		
	⅛"	2UEC2
	¼"	2UEC3
	⅜"	2UEH4
	½"	2UEH5
	¾"	2UEH6
	1"	2UEH7
Street Elbow, 45°, FNPT x MNPT		
	⅛"	2UEN7
	¼"	2UEN8
	⅜"	2UEN9
	½"	2UEP1
	¾"	2UEP2

Description	Pipe Size - Pipe Fitting	Item No.
Street Elbow, 90°, FNPT x MNPT		
	⅛"	2UEK9
	¼"	2UEL1
	⅜"	2UEL2
	½"	2UEL3
	¾"	2UEL4
	1"	2UEL5
Tee, FNPT		
	⅛"	2UED6
	¼"	2UED7
	⅜"	2UED8
	½"	2UED9
	¾"	2UEE1
	1"	2UEE2
Union, FNPT		
	⅛"	2UEF4
	¼"	2UEF5
	⅜"	2UEF6
	½"	2UEF7
	¾"	2UEF8
	1"	2UEF9





GA GRAINGER APPROVED

Schedule 40 Chrome-Plated Brass Nipples

- Max. pressure: 125 psi
- Temp. range: 60° to 250°F

Lead-free brass construction and feature a high-gloss, chrome-plated finish that's easier to clean than regular brass. Nipples have high corrosion resistance and are easier to work with than steel fittings. MNPT connections. Suitable for use in potable water applications. Meet ANSI B16.24 and ANSI B16.15.

Pipe Size (Nominal)	Item No.
Close Thread	
⅛ in	2UEP4
¼ in	2UER7
⅜ in	2UEU1
½ in	2UEV4
¾ in	2UEW7
1 in	2UEY1
1½" Length	
⅛ in	2UEP5
¼ in	2UER8
⅜ in	2UEU2
½ in	2UEV5
¾ in	2UEW8
2" Length	
⅛ in	2UEP6
¼ in	2UER9
⅜ in	2UEU3
½ in	2UEV6
¾ in	2UEW9
1 in	2UEY2
3" Length	
⅛ in	2UEP7
¼ in	2UET1
⅜ in	2UEU4
½ in	2UEV7
¾ in	2UEX1
1 in	2UEY3

Pipe Size (Nominal)	Item No.
3½" Length	
⅛ in	2UEP8
¼ in	2UET2
⅜ in	2UEU5
½ in	2UEV8
¾ in	2UEX2
1 in	2UEY4
4" Length	
⅛ in	2UEP9
¼ in	2UET3
⅜ in	2UEU6
¾ in	2UEX3
1 in	2UEY5
4½" Length	
⅛ in	2UER1
¼ in	2UET4
⅜ in	2UEU7
½ in	2UEW1
¾ in	2UEX4
1 in	2UEY6
5" Length	
⅛ in	2UER2
¼ in	2UET5
⅜ in	2UEU8
½ in	2UEW2
¾ in	2UEX5
1 in	2UEY7

Pipe Size (Nominal)	Item No.
6" Length	
⅛ in	2UER3
¼ in	2UET6
⅜ in	2UEU9
½ in	2UEW3
¾ in	2UEX6
1 in	2UEY8
8" Length	
⅛ in	2UER4
¼ in	2UET7
⅜ in	2UEV1
½ in	2UEW4
¾ in	2UEX7
1 in	2UEY9
10" Length	
⅛ in	2UER5
¼ in	2UET8
⅜ in	2UEV2
½ in	2UEW5
¾ in	2UEX8
1 in	2UEZ1
12" Length	
⅛ in	2UER6
¼ in	2UET9
⅜ in	2UEV3
½ in	2UEW6
¾ in	2UEX9
1 in	2UEZ2

GA GRAINGER APPROVED

Brass Fittings—Class 250

- Max. pressure: 400 psi at 72°F; 250 psi at 400°F steam
- Temp. range: 0° to 400°F

Class 250 fittings have thicker walls to handle higher pressures. For use in air, water, oil, natural gas, and steam applications. Meet ASME B.16.15 and B1.20.1.

Description	Pipe Size - Pipe Fitting	Item No.
Cap, FNPT		
	½"	4WEW1
	¾"	4WEW2
	1"	4WEW3
	1¼"	4WEW4
	2"	4WEW5
Coupling, FNPT		
	¼"	4WER7
	⅜"	4WER8
	½"	4WER9
	¾"	4WEU1
	1"	4WEU2
	1¼"	4WEU3
	1½"	4WEU4
	2"	4WEU5
Cross, FNPT		
	¾"	4WER2
	1"	4WER3
	1¼"	4WER4
	1½"	4WER5
	2"	4WER6
Elbow, 45°, FNPT		
	¾"	4WEV5
	1"	4WEV6
	1¼"	4WEV7
	1½"	4WEV8
	2"	4WEV9

Description	Pipe Size - Pipe Fitting	Item No.
Elbow, 90°, FNPT		
	¼"	4WEN5
	⅜"	4WEN6
	½"	4WEN7
	¾"	4WEN8
	1"	4WEN9
	1¼"	4WEP1
	1½"	4WEP2
	2"	4WEP3
Tee, FNPT		
	⅜"	4WEP4
	½"	4WEP5
	¾"	4WEP6
	1"	4WEP7
	1¼"	4WEP8
	1½"	4WEP9
	2"	4WER1
Union, FNPT		
	¼"	4WEU6
	⅜"	4WEU7
	½"	4WEU8
	¾"	4WEU9
	1"	4WEV1
	1¼"	4WEV2
	1½"	4WEV3
	2"	4WEV4



GA GRAINGER APPROVED

Schedule 80 Red Brass Threaded Nipples and Pipe



- Max. pressure: 250 psi
- Temp. range: -20° to 400°F

Resist saltwater, heat, acids, minerals, and soils. MNPT connections. For use in water, oil, natural gas, and steam applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size (Nominal)	Nipples Item No.
Close Thread	
⅛ in	4DRA9
¼ in	4DRC1
⅜ in	4DRC2
½ in	4DRC3
¾ in	4DRC4
1 ¼ in	4DRC6
1½" Length	
⅛ in	4DRC9
¼ in	4DRD1
⅜ in	4DRD2
½ in	4DRD3
¾ in	4DRD4
1 in	4DRC5
1¾" Length	
1 ½ in	4DRC7
2" Length	
⅛ in	4DRD5
¼ in	4DRD6
⅜ in	4DRD7
½ in	4DRD8
¾ in	4DRD9
1 in	4DRE1
1 ¼ in	4DRE2
1 ½ in	4DRE3
2 in	4DRC8
2½" Length	
⅛ in	4DRE4
¼ in	4DRE5
⅜ in	4DRE6
½ in	4DRE7
¾ in	4DRE8
1 in	4DRE9
1 ¼ in	4DRF1
1 ½ in	4DRF2
2 in	4DRF3
3" Length	
⅛ in	4DRF5
¼ in	4DRF6
⅜ in	4DRF7
½ in	4DRF8
¾ in	4DRF9
1 in	4DRG1
1 ½ in	4DRG3
2 in	4DRG4
3½" Length	
⅛ in	4DRG6
¼ in	4DRG7
⅜ in	4DRG8
½ in	4DRG9
¾ in	4DRH1
1 in	4DRH2
1 ½ in	4DRH4
2 in	4DRH5
4" Length	
⅛ in	4DRH7
¼ in	4DRH8
⅜ in	4DRH9
½ in	4DRJ1
¾ in	4DRJ2
1 in	4DRJ3
1 ¼ in	4DRJ4
1 ½ in	4DRJ5
2 in	4DRJ6
5" Length	
⅛ in	4DRJ8
¼ in	4DRJ9
⅜ in	4DRK1
½ in	4DRK2
¾ in	4DRK3
1 in	4DRK4
1 ¼ in	4DRK5
1 ½ in	4DRK6
2 in	4DRK7

Pipe Size (Nominal)	Nipples Item No.
6" Length	
⅛ in	4DRK9
¼ in	4DRL1
⅜ in	4DRL2
½ in	4DRL3
¾ in	4DRL4
1 in	4DRL5
1 ¼ in	4DRL6
1 ½ in	4DRL7
2 in	4DRL8
8" Length	
⅛ in	4DRN1
¼ in	4DRN2
⅜ in	4DRN3
½ in	4DRN4
¾ in	4DRN5
1 in	4DRN6
1 ¼ in	4DRN7
1 ½ in	4DRN8
2 in	4DRN9
10" Length	
⅛ in	4DRP2
¼ in	4DRP3
⅜ in	4DRP4
½ in	4DRP5
1 in	4DRP7
1 ¼ in	4DRP8
12" Length	
⅛ in	4DRR3
¼ in	4DRR4
½ in	4DRR6
¾ in	4DRR7
1 in	4DRR8
1 ½ in	4DRT1
2 in	4DRT2

Pipe Size (Nominal)	Pipe Item No.
18" Length	
¼ in	4DRT5
⅜ in	4DRT6
½ in	4DRT7
¾ in	4DRT8
2 in	4DRU3
2 ft. Length	
¼ in	4DRU5
⅜ in	4DRU6
½ in	4DRU7
¾ in	4DRU8
1 in	4DRU9
1 ¼ in	4DRV1
3 ft. Length	
⅛ in	4DRV4
¼ in	4DRV5
¾ in	4GRN9
4 ft. Length	
¼ in	4GRP6
⅜ in	4GRP7
½ in	4GRP8
¾ in	4GRP9
1 ¼ in	4GRR2
5 ft. Length	
¼ in	4GRR6
½ in	4GRR8
¾ in	4GRR9
6 ft. Length	
⅛ in	4GRT5
1 in	4GRU1
2 in	4GRU4

Brass Pipe Fittings and Nipples

GA GRAINGER APPROVED Parker

- Temp. range: -65° to 250°F

Nipples are built with MNPT connections. For use in water, oil, natural gas, and steam applications.

GA

- Max. pressure: 1200 psi

Meet SAE, ASME, and ASA.

PARKER

- Parker fittings are made in the U.S.
- Manufactured to Dryseal Standards
- Max. pressure: 1000 psi

Feature high-impact strength and resist mechanical shock and vibration. Can be used with brass, copper, and iron tubing. For use in aggressive and general industrial environments and are compatible with many fluids. Parker male threads include Loctite® Vibra-Seal® thread sealant. All fittings meet SAE J530 and J531.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	FITTINGS GA Item No.	GA Pkg. Qty.	Parker Item No.	Parker Pkg. Qty.
Adapter						
	1/8"	FNPT x MNPT	6AYX2	1	13Y817††	1
	1/8"	FNPT x MNPT	—		13Y818††	1
	1/4"	FNPT x MNPT	6AYX3	1	—	
	3/8"	FNPT x MNPT	6AYX4	1	13Y822	1
	1/2"	FNPT x MNPT	6AYX5	1	—	
Anchor Coupling						
	1/8"	FNPT	6AZC0	1	13Y865	1
	1/4"	FNPT	6AZC2 ‡	1	—	
	1/4"	FNPT	6AZC1 ‡	1	—	
	1/4"	MNPT x FNPT	—		13Y868 ‡	1
	1/4"	MNPT x FNPT	—		13Y867 ‡	1
	3/8"	FNPT	6AZC3	1	—	
	3/8"	MNPT x FNPT	—		13Y869	1
	1/2"	FNPT	6AZC4	1	—	
	1/2"	MNPT x FNPT	—		13Y870	1
	5/8"	MNPT x FNPT	—		13Y866	1
	3/4"	MNPT x FNPT	—		13Y871	1
	1"	MNPT x FNPT	—		13Y872	1
Branch Tee						
	1/8"	FNPT x FNPT x MNPT	—		13Y855	1
	1/4"	FNPT x FNPT x MNPT	6AYV6	1	13Y856	1
	3/8"	FNPT x FNPT x MNPT	—		13Y857	1
	1/2"	FNPT x FNPT x MNPT	6AYV8	1	13Y858	1
	3/4"	FNPT x FNPT x MNPT	—		13Y859	1
Cap						
	1/8"	FNPT	6AYZ2	1	13Y907	1
	1/4"	FNPT	6AYZ3	1	13Y908	1
	3/8"	FNPT	6AYZ4	1	13Y909	1
	1/2"	FNPT	6AYZ5	1	13Y910	1
	3/4"	FNPT	6AYZ6	1	13Y911	1
Countersink Plug						
	1/8"	MNPT	6AYZ7	1	13Y812	1
	1/4"	MNPT	6AYZ8	1	13Y813	1
	3/8"	MNPT	6AYZ9	1	13Y814	1
	1/2"	MNPT	6AZA0	1	13Y815	1
	3/4"	MNPT	—		13Y816	1
Coupling						
	1/8"	FNPT	6CTE6	10	13Y873	1
	1/4"	FNPT	6CTE7	10	13Y874	1
	3/8"	FNPT	6CTE8	10	13Y875	1
	1/2"	FNPT	6CTE9	10	13Y876	1
	3/4"	FNPT	6AYR0	5	13Y877	1
Cross						
	1/8"	FNPT	—		13Y902	1
	1/4"	FNPT	6AYY8	1	13Y903	1
	3/8"	FNPT	6AYY9	1	13Y904	1
	1/2"	FNPT	6AYZ0	1	13Y905	1
	3/4"	FNPT	—		13Y906	1
Extruded Female Elbow, 45°						
	1/8"	FNPT	—		13Y901	1
Extruded Female Tee						
	1/8"	FNPT	6AYU6	10	13Y894	1
	1/4"	FNPT	6AYU7	10	13Y895	1
	3/8"	FNPT	6AYU8	10	13Y896	1
	1/2"	FNPT	6AYU9	10	13Y897	1
	3/4"	FNPT	6AYV0	5	13Y898	1
Extruded Street Elbow, 90°						
	1/8"	FNPT x MNPT	—		13Y839 *	1
	1/8"	FNPT x MNPT	—		13Y847 *	1
	1/4"	FNPT x MNPT	—		13Y848 *	1
	1/4"	FNPT x MNPT	—		13Y841 *	1
	1/4" x 1/8"	FNPT x MNPT	—		13Y840	1
	3/8"	FNPT x MNPT	—		13Y849 *	1
	3/8"	FNPT x MNPT	—		13Y843 *	1
	3/8" x 1/4"	MNPT x FNPT	—		13Y842	1
	1/2"	FNPT x MNPT	—		13Y844	1
	3/4"	FNPT x MNPT	—		13Y846	1
	3/4" x 1/2"	FNPT x MNPT	—		13Y845	1
Extruded Union Elbow, 90°						
	1/8"	FNPT	—		13Y887	1
	1/4"	FNPT	—		13Y888	1
	3/8"	FNPT	—		13Y889	1
	1/2"	FNPT	—		13Y890	1
Female Elbow, 90°						
	1/8"	FNPT	6AYT6	10	—	
	1/4"	FNPT	6AYT7	10	—	
	3/8"	FNPT	6AYT8	10	—	
	1/2"	FNPT	6AYT9	10	—	
	3/4"	FNPT	6AYU0	1	—	
Forged Female Elbow, 45°						
	1/2"	FNPT	—		13Y899	1
Forged Female Union Tee						
	1/8"	FNPT	—		13Y891	1
	1/4"	FNPT	—		13Y892	1
	1/2"	FNPT	—		13Y893	1
Forged Union Elbow, 90°						
	1/8"	FNPT	—		13Y884	1
	1/4"	FNPT	—		13Y885	1
	3/8"	FNPT	—		13Y886	1
Hex Head Plug						
	1/8"	MNPT	6AZA5	10	13Y807	1
	1/4"	MNPT	6AZA6	10	13Y808	1
	3/8"	MNPT	6AZA7	10	13Y809	1
	1/2"	MNPT	6AZA8	10	13Y810	1
	3/4"	MNPT	6AZA9	5	13Y811	1
Locknut						
	1/8"	FNPT	—		13Y878	1
	1/4"	FNPT	6AZC6	1	13Y879	1
	3/8"	FNPT	—		13Y880	1
	1/2"	FNPT	—		13Y881	1
Male Elbow, 90°						
	1/8"	MNPT	6AYT2	1	13Y835	1
	1/4"	MNPT	6AYT3	1	13Y836	1
	3/8"	MNPT	6AYT4	1	13Y837	1
	1/2"	MNPT	—		13Y838	1
Male Tee						
	1/4"	MNPT	6AYV2	1	—	
	3/8"	MNPT	6AYV3	1	—	
	1/2"	MNPT	6AYV4	1	—	
	3/4"	MNPT	6AYV5	1	—	
Reducing Adapter						
	1/4" x 1/8"	FNPT x MNPT	6AYX6	10	13Y819	1
	1/4"	FNPT x MNPT	—		13Y820	1
	3/8" x 1/8"	FNPT x MNPT	6AYX7	1	—	
	3/8" x 1/4"	FNPT x MNPT	6AYX8	10	13Y821	1
	1/2" x 1/4"	FNPT x MNPT	6AYX9	1	13Y823	1
	1/2" x 3/8"	FNPT x MNPT	6AYY0	10	13Y824	1
	1/2"	FNPT x MNPT	—		13Y825	1
	3/4" x 3/8"	FNPT x MNPT	—		13Y826	1
	3/4" x 1/2"	FNPT x MNPT	6AYY1	1	13Y827	1
	3/4"	FNPT x MNPT	—		13Y828	1
Reducing Bushing						
	1/4" x 1/8"	MNPT x FNPT	6AYW5	10	—	
	1/4" x 1/8"	MNPT	—		13Y754	1
	3/8" x 1/8"	MNPT x FNPT	6AYW6	1	—	
	3/8" x 1/4"	MNPT x FNPT	6AYW7	10	—	
	3/8" x 1/8"	MNPT	—		13Y755	1
	3/8" x 1/4"	MNPT	—		13Y756	1
	1/2" x 1/8"	MNPT	—		13Y757	1
	1/2" x 1/4"	MNPT x FNPT	6AYW8	10	—	
	1/2" x 3/8"	MNPT x FNPT	6AYW9	10	—	
	1/2" x 1/4"	MNPT	—		13Y758	1
	1/2" x 3/8"	MNPT	—		13Y759	1
	1/2" x 1"	FNPT x MNPT	—		13Y764	1
	3/4" x 1/4"	NPT Male x NPT Female	—		13Y760	1
	3/4" x 3/8"	MNPT x FNPT	6AYX0	1	—	
	3/4" x 1/2"	MNPT x FNPT	6AYX1	5	—	
	3/4" x 3/8"	MNPT	—		13Y761	1
	3/4" x 1/2"	MNPT	—		13Y762	1
	3/4" x 1"	MNPT	—		13Y763	1
Reducing Coupling						
	1/4" x 1/8"	FNPT	6AYR1	10	13Y912	1
	3/8" x 1/8"	FNPT	6AYR2	1	—	
	3/8" x 1/4"	FNPT	6AYR3	10	13Y913	1
	1/2" x 1/8"	FNPT	6AYR4	1	—	
	1/2" x 1/4"	FNPT	6AYR5	10	13Y914	1
	1/2" x 3/8"	FNPT	6AYR6	10	13Y915	1
	3/4" x 3/8"	FNPT	—		13Y916	1
	3/4" x 1/2"	FNPT	6AYR7	1	13Y917	1
Square Head Plug						
	1/8"	MNPT	—		13Y765	1
	1/4"	MNPT	—		13Y766	1
	3/8"	MNPT	—		13Y767	1
	1/2"	MNPT	—		13Y768	1
	3/4"	MNPT	—		13Y769	1
Street Elbow, 45°						
	1/8"	MNPT x FNPT	6AYR8	10	—	
	1/8"	FNPT x MNPT	—		13Y850	1
	1/4"	MNPT x FNPT	6AYR9	10	—	
	1/4"	FNPT x MNPT	—		13Y851	1
	3/8"	FNPT x MNPT	—		13Y852	1
	3/8"	MNPT x FNPT	6AYT0	10	—	
	1/2"	MNPT x FNPT	6AYT1	10	—	
	1/2"	FNPT x MNPT	—		13Y853	1
	3/4"	FNPT x MNPT	—		13Y854	1
	3/4"	MNPT x FNPT	6AYT5	1	—	

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	FITTINGS GA Item No.	GA Pkg. Qty.	Parker Item No.	Parker Pkg. Qty.
Street Elbow, 90°						
	1/8"	FNPT x MNPT	—		13Y829	1
	1/8"	MNPT x FNPT	6AYU1	10	—	
	1/4"	MNPT x FNPT	6AYU2	10	—	
	1/4"	FNPT x MNPT	—		13Y830	1
	3/8"	MNPT x FNPT	6AYU3	10	13Y831	1
	3/8"	FNPT x MNPT	—		13Y832	1
	3/8" x 1/2"	FNPT x MNPT	—		13Y833	1
	1/2"	MNPT x FNPT	6AYU4	10	—	
	1/2" x 3/8"	FNPT x MNPT	—		13Y834	1
	3/4"	MNPT x FNPT	6AYU5	5	—	
Street Tee						
	1/8"	FNPT x MNPT x FNPT	6AYW0	10	13Y860	1
	1/4"	FNPT x MNPT x FNPT	6AYW1	10	13Y861	1
	3/8"	FNPT x MNPT x FNPT	6AYW2	10	13Y862	1
	1/2"	FNPT x MNPT x FNPT	6AYW3	1	13Y863	1
	3/4"	FNPT x MNPT x FNPT	—		13Y864	1
Union						
	1/4"	FNPT	6AYY3	1	13Y882	1
	3/8"	FNPT	6AYY4	1	13Y883	1
	1/2"	FNPT	6AYY5	1	—	
	3/4"	FNPT	6AYY6	1	—	

Description	Pipe Size - Pipe Fitting	Overall Pipe Length	NIPPLES GA Item No.	GA Pkg. Qty.	Parker Item No.	Parker Pkg. Qty.
Close Nipple						
	1/8 in	3/4"	6AZD5	10	13Y770	1
	1/4 in	7/8"	6AZD6	10	13Y771	1
	3/8 in	1"	6AZD7	10	13Y772	1
	1/2 in	1/8"	—		13Y773	1
	1/2 in	1 1/8"	6AZD8	10	—	
	3/4 in	1 5/16"	—		13Y774	1
	3/4 in	1 3/8"	6AZD9	5	—	
Pipe Nipple						
	1/8 in	1 1/2"	6AZE0	10	13Y775	1
	1/8 in	2"	6AZE1	10	13Y776	1
	1/8 in	2 1/2"	—		13Y777	1
	1/8 in	3"	—		13Y778	1
	1/8 in	3 1/2"	—		13Y779	1
	1/4 in	1 1/2"	6AZE2	10	13Y780	1
	1/4 in	2"	6AZE3	10	13Y781	1
	1/4 in	2 1/2"	—		13Y782	1
	1/4 in	3"	—		13Y783	1
	1/4 in	3 1/2"	—		13Y784	1
	3/8 in	1 1/2"	6AZE4	10	13Y785	1
	3/8 in	2"	6AZE5	10	13Y786	1
	3/8 in	2 1/2"	—		13Y787	1
	3/8 in	3"	—		13Y788	1
	3/8 in	3 1/2"	—		13Y789	1
	1/2 in	1 1/2"	6AZE6	10	13Y790	1
	1/2 in	2"	6AZE7	10	13Y791	1
	1/2 in	2 1/2"	—		13Y792	1
	1/2 in	3"	—		13Y793	1
	1/2 in	3 1/2"	—		13Y794	1
	3/4 in	1 1/2"	6AZE8	5	—	
	3/4 in	2"	6AZE9	5	—	

Description	Pipe Size - Pipe Fitting	NIPPLES GA Fitting Length	GA Item No.	GA Pkg. Qty.	Parker Fitting Length	Parker Item No.	Parker Pkg. Qty.
Hex Nipple							
	1/8"	15/16"	6AZD0	10	31/32"	13Y795	1
	1/4"	1 3/8"	6AZD1	10	1 3/8"	13Y796	1
	3/8"	1 7/16"	6AZD2	10	1 13/32"	13Y798	1
	1/2"	1 13/16"	6AZD3	10	1 13/16"	13Y802	1
	3/4"	1 13/16"	6AZD4	5	1 13/16"	13Y805	1
Reducing Nipple							
	1/4" x 1/8"	1"	6AZF1	10	1 3/16"	13Y797	1
	3/8" x 1/8"	1 1/8"	6AZF0	1	1 7/32"	13Y799	1
	3/8" x 1/4"	1 1/4"	6AZF2	10	1 13/32"	13Y801	1
	1/2" x 1/4"	1 7/16"	6AZF3	1	1 5/8"	13Y803	1
	1/2" x 3/8"	1 3/8"	6AZF4	10	1 5/8"	13Y804	1
	3/4" x 1/2"	1 9/16"	6AZF5	1	1 13/16"	13Y806	1

†† No. 13Y817 is 7/8"L, No. 13Y818 is 1-3/4"L. ‡ No. 6AZC2 is 1"L, No. 6AZC1 is 1-1/2"L, No. 13Y868 is 15/16"L, No. 13Y867 is 1-1/2"L.
**No. 13Y839 is 5/8"L, No. 13Y847 is 21/32"L, No. 13Y848 is 1-5/64"L, No. 13Y841 is 29/32"L, No. 13Y849 is 31/32"L, No. 13Y843 is 1-1/4"L.*

Lead-Free Brass Fittings and Nipples

GRAINGER APPROVED

- Max. pressure: 1200 psi
- Temp. range: -65° to 250°F

Ideal for use in plumbing and industrial applications where lead-free fittings are required. Certified for use in potable water applications and are NSF-61 Annex G Listed.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	FITTINGS Item No.
Adapter			
	⅜"	MNPT x FNPT	46M453
Cap			
	⅛"	FNPT	46M491
	¼"	FNPT	46M490
	⅜"	FNPT	46M489
	½"	FNPT	46M488
	¾"	FNPT	46M487
Countersink Plug			
	⅛"	MNPT	46M472
	¼"	MNPT	46M471
	⅜"	MNPT	46M470
	½"	MNPT	46M469
	¾"	MNPT	46M468
Coupling			
	⅛"	FNPT	46M501
	⅛"	MNPT x FNPT	46M457
	¼"	FNPT	46M499
	¼"	MNPT x FNPT	46M455
	⅜"	FNPT	46M498
	½"	FNPT	46M497
	½"	FNPT x MNPT	46M450
	¾"	FNPT	46M496
Cross			
	⅛"	FNPT	46M504
	¼"	FNPT	46M503
	⅜"	FNPT	46M502
Elbow, 90°			
	⅛"	FNPT	46M513
	⅛"	MNPT	46M427
	¼"	FNPT	46M512
	¼"	MNPT	46M426
	⅜"	FNPT	46M511
	⅜"	MNPT	46M425
	¾"	FNPT	46M510
Hex Bushing			
	¼" x ⅛"	MNPT x FNPT	46M486
	⅜" x ⅛"	MNPT x FNPT	46M485
	⅜" x ¼"	MNPT x FNPT	46M484
	½" x ¼"	MNPT x FNPT	46M483
	½" x ⅜"	MNPT x FNPT	46M482
	¾" x ⅜"	MNPT x FNPT	46M481
	¾" x ½"	MNPT x FNPT	46M480
Hex Head Plug			
	⅛"	MNPT	46M448
	¼"	MNPT	46M447
	⅜"	MNPT	46M446
	½"	MNPT	46M445
	¾"	MNPT	46M444
Reducer			
	¼" x ⅛"	FNPT x MNPT	46M456
	⅜" x ¼"	FNPT x MNPT	46M454
	½" x ¼"	FNPT x MNPT	46M452
	½" x ⅜"	FNPT x MNPT	46M451
	¾" x ½"	FNPT x MNPT	46M449
Reducing Coupling			
	¼" x ⅛"	FNPT	46M463
	⅜" x ⅛"	FNPT	46M462
	⅜" x ¼"	FNPT	46M461
	½" x ⅛"	FNPT	46M460
	½" x ¼"	FNPT	46M459
	¾" x ½"	FNPT	46M458

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	FITTINGS Item No.
Street Elbow, 45°			
	⅛"	MNPT x FNPT	46M432
	¼"	MNPT x FNPT	46M431
Street Elbow, 90°			
	⅛"	MNPT x FNPT	46M467
	¼"	MNPT x FNPT	46M466
	⅜"	MNPT x FNPT	46M465
	½"	MNPT x FNPT	46M464
Tee (run x run x outlet)			
	⅛"	FNPT	46M509
	⅛"	FNPT x MNPT x FNPT	46M430
	⅛"	MNPT	46M424
	¼"	FNPT	46M508
	¼"	FNPT x MNPT x FNPT	46M429
	¼"	MNPT	46M423
	⅜"	FNPT	46M507
	½"	FNPT	46M506
	½"	FNPT x MNPT x FNPT	46M428
	¾"	FNPT	46M505
Union			
	¼"	FNPT	46M495
	⅜"	FNPT	46M494
	½"	FNPT	46M493
	¾"	FNPT	46M492

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Fitting Length	NIPPLES Item No.
Hex Nipple				
	⅛"	MNPT	1"	46M443
	¼"	MNPT	1 13/64"	46M442
	⅜"	MNPT	1 19/64"	46M441
	½"	MNPT	1 13/32"	46M440
	¾"	MNPT	1 39/64"	46M439

Description	Pipe Size (Nominal)	Thread Type (Pipe)	Overall Pipe Length	NIPPLES Item No.
Close Nipple				
	⅛ in	MNPT x MNPT	13/32 in	46M479
	¼ in	MNPT x MNPT	½ in	46M478
	⅜ in	MNPT x MNPT	45/64 in	46M477
	½ in	MNPT x MNPT	51/64 in	46M476
	¾ in	MNPT x MNPT	1 7/64 in	46M475
Nipple				
	¼ in	MNPT x MNPT	1 ½ in	46M474
	¼ in	MNPT x MNPT	2 in	46M473
	¼ in x ⅛ in	MNPT x MNPT	1 7/64 in	46M438
	⅜ in x ⅛ in	MNPT x MNPT	1 ⅛ in	46M437
	⅜ in x ¼ in	MNPT x MNPT	1 13/64 in	46M436
	½ in x ¼ in	MNPT x MNPT	1 19/64 in	46M435
	½ in x ⅜ in	MNPT x MNPT	1 13/32 in	46M434
	¾ in x ½ in	MNPT x MNPT	1 ½ in	46M433

KeepStock
Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**

Brass Pipe Fitting Kits

GA GRAINGER APPROVED

- Max. pressure: 1200 psi
- Temp. range: -65° to 250°F

Meet SAE, ASME, and ASA.

Description	Sizes Incl.	Item No.
42-Pc. Kit	(3 Each) ⅜" and ½" Hex Nipples, Female Tees, Couplings, Street Elbows, Close Nipples, and Hex Plugs, ½" x ⅜" Bushings, ½ x ⅜" Reducers	6AZF8
70-Pc. Kit	(5) ¼" Hex Nipples, Female Tees, Couplings, Street Elbows, Close Nipples, Hex Plugs, 45 Degree Straight Elbows, ¼ x ⅛" Reducers, ¼ x ⅛" Couplings, ¼ x ⅛" Hex Nipples, ¼ x ⅛" Bushings, ⅜ x ¼" Bushings, ½ x ⅜" Bushings	6AZF6
111-Pc. Kit	(10 Each) ⅜" and ½" Hex Nipples, Close Nipples, and Hex Plugs (3 Each) ⅜" and ½" Female Tees, (5 Each) ⅜" and ½" Street Elbows, (10) ⅜" Couplings, (5) ½" Couplings, (10 Each) ½ x ⅜" Bushings and Reducers	6AZF9
140-Pc. Kit	(10) ¼" Hex Nipples, Female Tees, Couplings, Street Elbows, Close Nipples, Hex Plugs, 45° Straight Elbows, ¼ x ⅛" Reducers, ¼ x ⅛" Couplings, ¼ x ⅛" Hex Nipples, ¼ x ⅛" Bushings, ⅜ x ¼" Bushings, ½ x ⅜" Bushings	6AZF7



No. 6AZF6

Brass Instrumentation-Grade Fittings

Parker

Machined to an exceptional tolerance level, with rolled threads for increased strength. For instrument air, gas, and liquid service. Meet ANSI B31.1, B31.3, and B1.20.1.

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.
Cap, FNPT			
	⅛"	4000 psi	1DGR4
	¼"	4300 psi	1DGR5
	⅜"	3600 psi	1DGR6
	½"	3600 psi	1DGR7
Female Elbow, 90°, FNPT			
	¼"	3000 psi	1DGH4
	⅜"	2700 psi	1DGH5
	½"	2500 psi	1DGH6
Hex Coupling, FNPT			
	¼"	4300 psi	1DGC6
	⅜"	3500 psi	1DGC8
	½"	3600 psi	1DGD2
Hex Head Plug, MNPT			
	⅛"	5600 psi	1DGT3
	¼"	4100 psi	1DGT4
	⅜"	4000 psi	1DGT5
	½"	3900 psi	1DGT6

** No. 1DFW5 = 2"L, No. 1DFW6 = 2.5"L, No. 1DFW7 = 3"L, No. 1DFW9 = 2"L, No. 1DFX1 = 3"L.*

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.
Hollow Hex Head Plug, MNPT			
	⅛"	5600 psi	1DGU5
	¼"	4100 psi	1DGU6
Male Branch Tee, FNPT x FNPT x MNPT			
	¼"	3000 psi	1DGN6
	⅜"	2700 psi	1DGN7
	½"	2500 psi	1DGN8
Male Elbow, 90°, MNPT			
	¼"	4100 psi	1DGG4
	⅜"	4000 psi	1DGG5
	½"	3100 psi	1DGG6
Male Hex Long Nipple, MNPT			
	¼"	4100 psi	1DFW5 *
	¼"	4100 psi	1DFW6 *
	¼"	4100 psi	1DFW7 *
	⅜"	4000 psi	1DFW8
	½"	3900 psi	1DFW9 *
	½"	3900 psi	1DFX1 *

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.
Male Hex Nipple, MNPT			
	¼"	4100 psi	1DGA6
	⅜"	4000 psi	1DGA8
	½"	3900 psi	1DGB2
Reducing Adapter, FNPT x MNPT			
	¼" x ⅛"	4300 psi	1DFY5
	⅜" x ⅛"	3500 psi	1DFY6
	⅜" x ¼"	3500 psi	1DFY7
	½" x ⅛"	3600 psi	1DFY8
	½" x ¼"	3600 psi	1DFY9
	½" x ⅜"	3600 psi	1DFZ1
Reducing Bushing, MNPT x FNPT			
	¼" x ⅛"	3600 psi	1DGE7
	⅜" x ⅛"	4000 psi	1DGE8
	⅜" x ¼"	3000 psi	1DGE9
	½" x ⅛"	3900 psi	1DGF1
	½" x ¼"	3900 psi	1DGF2
	½" x ⅜"	2800 psi	1DGF3
Reducing Coupling, FNPT			
	¼" x ⅛"	4300 psi	1DGC5
	⅜" x ¼"	3500 psi	1DGC7
	½" x ¼"	3600 psi	1DGC9
	½" x ⅜"	3600 psi	1DGD1

Description	Pipe Size - Pipe Fitting	Max. Pressure	Item No.
Reducing Male Hex Nipple, MNPT			
	¼" x ⅛"	4100 psi	1DGA5
	⅜" x ¼"	4000 psi	1DGA7
	½" x ¼"	3900 psi	1DGA9
	½" x ⅜"	3900 psi	1DGB1
Reducing Street Elbow, 90°, MNPT x FNPT			
	¼" x ⅛"	2900 psi	1DGJ5
Street Elbow, 90°, MNPT x FNPT			
	¼"	3000 psi	1DGJ6
	⅜"	2700 psi	1DGJ7
	½"	2500 psi	1DGJ8
Street Tee, FNPT x MNPT x FNPT			
	¼"	3000 psi	1DGL6
	⅜"	2700 psi	1DGL7
	½"	2500 psi	1DGL8
Tee, FNPT			
	¼"	3000 psi	1DGK6
	⅜"	2700 psi	1DGK7
	½"	2500 psi	1DGK8

Description	Pipe Size (Nominal)	Pressure (psi)	Item No.
Male Close Nipple, MNPT x MNPT			
	¼ in	4100	1DFX5
	⅜ in	4000	1DFX6
	½ in	3900	1DFX7

Wrot Copper Fittings

MUELLER INDUSTRIES NIBCO

- Max. pressure, ⅛" to 1⅛" O.D.: 500 psi
- Max. pressure, 1¼" to 2⅛" O.D.: 364 psi
- Max. pressure, 2⅜" to 3⅛" O.D.: 317 psi
- Max. pressure, 4" to 4⅛" O.D.: 293 psi
- Temp. range: -20° to 400°F

99.9% pure copper, seamless tubing forms a permanent, leaktight connection and resists corrosion and scaling. Ideal for drinking water, air conditioning, and refrigeration applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products. C = Female Solder Cup.

Description	Tube Size	Outside Dia.	Item No.
45° Elbows			
C x C			
	⅛"	¼"	1VLX7
	¼"	⅜"	5P036
	⅜"	½"	5P037
	½"	⅝"	5P038
	⅝"	¾"	5P039
	¾"	⅞"	5P040
	1"	1⅛"	5P041
	1¼"	1⅜"	5P042
	1½"	1⅝"	5P043
	2"	2⅛"	5P044
	2½"	2⅝"	1VLX8
	3"	3⅛"	1VLX9
	4"	4⅛"	1VLY1
	6"	6⅛"	39R747
FTG x C			
	¼"	⅜"	1VLY2
	⅜"	½"	1VLY3
	½"	⅝"	5P045
	⅝"	¾"	1VLY4
	¾"	⅞"	5P046
	1"	1⅛"	5P047
	1¼"	1⅜"	1VLY5
	1½"	1⅝"	1VLY6
	2"	2⅛"	1VLY7
	2½"	2⅝"	1VLY8
	3"	3⅛"	1VLY9

† Mueller Industries brand.

Description	Tube Size	Outside Dia.	Item No.
90° Elbows			
C x C			
	½"	⅝"	1VMB1
	2½"	2⅝"	1VMB3
	3"	3⅛"	1VMA3
	4"	4⅛"	1VMA4
90° Elbows—Close Rough			
	⅛"	¼"	5P048
	¼"	⅜"	5P049
	⅜"	½"	5P050
	½"	⅝"	5P051
	¾"	⅞"	5P053
	1"	1⅛"	5P054
	1¼"	1⅜"	5P055
	1½"	1⅝"	5P056
	2"	2⅛"	5P057
	2½"	2⅝"	5P058
	3½"	3⅝"	39R719
	5"	5⅛"	39R711
	6"	6⅛"	39R680
FTG x C			
	¼"	⅜"	5P062
	⅜"	½"	5P063
	½"	⅝"	5P064
	¾"	⅞"	5P065
	1"	1⅛"	5P066
	1¼"	1⅜"	5P067
	1½"	1⅝"	1VMA6
	2"	2⅛"	1VMA7
	2½"	2⅝"	1VMA8
	3"	3⅛"	1VMA9
	4"	4⅛"	39R704
FTG x FTG			
	½"	⅝"	39R590
	¾"	⅞"	39R576
	1"	1⅛"	39R714
	1¼"	1⅜"	39R726
	1½"	1⅝"	39R727
	2"	2⅛"	39R745
90° Elbows—Intermediate Radius			
C x C			
	½"	⅝"	5P079
	⅝"	¾"	5P080
	¾"	⅞"	5P081
	1"	1⅛"	5P082

Description	Tube Size	Outside Dia.	Item No.
FTG x C			
	½"	⅝"	5P068
	⅝"	¾"	5P069
	¾"	⅞"	5P070
	1"	1⅛"	5P071
90° Elbows—Long Radius			
C x C			
	⅛"	¼"	5P083
	3⁄16"	3⁄16"	39R697
	¼"	⅜"	5P084
	5⁄16"	5⁄16"	5P085
	⅜"	½"	5P086
	⅝"	¾"	5P088
	¾"	⅞"	5P089
	⅞"	1"	39R608
	1"	1⅛"	5P090
	1¼"	1⅜"	5P091
	1½"	1⅝"	5P092
	2"	2⅛"	5P093
	2"	2⅛"	39R585
	3"	3⅛"	39R593
	4"	4⅛"	39R752
FTG x C			
	⅛"	¼"	1VMB5
	¼"	⅜"	5P072
	⅜"	½"	1VMB6
	½"	⅝"	5P074
	⅝"	¾"	5P075
	¾"	⅞"	5P076
	1"	1⅛"	1VMB7
	1¼"	1⅜"	5P078
	1½"	1⅝"	1VMB8
	2"	2⅛"	1VMB9
	2½"	2⅝"	1VMC1
	3"	3⅛"	1VMC2
FTG x FTG			
	¼"	⅜"	39R620
	⅜"	½"	39R592
	½"	⅝"	39R595
	⅝"	¾"	39R596
	¾"	⅞"	39R607
	1"	1⅛"	39R677
	1¼"	1⅜"	39R652
	1½"	1⅝"	39R742

CONTINUED

CONTINUED

Wrot Copper Fittings

MUELLER INDUSTRIES NIBCO

Description	Tube Size	Outside Dia.	Item No.
Adapter			
C x FNPT			
	1/8"	1/4"	1VLR6
	1/4"	3/8"	1VLR8
	3/8"	1/2"	1VLT1
	1/2"	5/8"	5P015
	3/4"	7/8"	5P018
	1"	1 1/8"	5P019
	1"	1 1/8"	39R577
	1 1/4"	1 3/8"	5P020
	1 1/4"	1 3/8"	39R670
	1 1/2"	1 5/8"	5P021
	1 1/2"	1 5/8"	39R570
	2"	2 1/8"	1VLU5
	2"	2 1/8" x 2"	39R567
	2 1/2"	2 5/8"	1VLU7
	3"	3 1/8"	1VLU8
C x MNPT			
	1/4"	3/8" x 1/4"	1VLV1
	1/4"	3/8" x 1/2"	39R713
	3/8"	1/2" x 3/8"	1VLV2
	3/8"	1/2" x 1/4"	39R709
	1/2"	5/8" x 1/2"	1VLV5
	3/4"	7/8" x 3/4"	1VLW1
	1"	1 1/8" x 1"	1VLW2
	1"	1 1/8" x 1/2"	39R612
	1 1/4"	1 3/8" x 1 1/4"	1VLW6
	1 1/4"	1 3/8" x 1 1/4"	39R633
	1 1/2"	1 5/8" x 1 1/2"	1VLW9
	2"	2 1/8" x 2"	5P035
	2 1/2"	2 5/8" x 2 1/2"	1VLX5
	3"	3 1/8" x 3"	1VLX6
C x SJ			
	1 1/4"	1 3/8"	39R548
	1 1/2"	1 5/8"	39R504
	1 1/2" x 1 1/4"	1 5/8" x 1 3/8"	39R551
C x SPG			
	2"	2 1/8"	39R609
FTG x FNPT			
	1/4"	3/8"	39R669
	3/8"	1/2"	5P022
	1/2"	5/8"	5P023
	1/2"	5/8 x 1/2"	39R559
	3/4"	7/8"	5P024
	1"	1 1/8"	39R529
	1 1/4"	1 3/8"	39R606
	1 1/2"	1 5/8"	39R617
	2"	2 1/8"	39R627
FTG x MNPT			
	1/4"	3/8"	39R720
	3/8"	1/2" x 3/8"	39R643
	1/2"	5/8" x 3/8"	39R572
	1/2"	5/8" x 1/2"	39R506
	3/4"	7/8 x 3/4"	39R507
	1"	1 1/8" x 1"	39R561
FTG x SJ			
	1 1/2"	1 5/8" x 1 5/8"	39R541
	1 1/2" x 1 1/4"	1 5/8" x 1 3/8"	39R691
F x SJ			
	1 1/2"	1 5/8"	39R682
MNPT x SJ			
	1 1/4"	1 1/2" x 1 3/8"	39R730
	1 1/2"	1 1/2" x 1 5/8"	39R571
Air Chamber / Stub Out			
FTG			
	1/2" x 6"	5/8"	39R647
	1/2" x 8"	5/8"	39R634
	1/2" x 12"	5/8"	39R735
	1/2" x 12"	5/8"	39R751
Bullhead Tee (run x run x outlet)			
C x C x C			
	1/8" x 1/8" x 1/4"	1/4" x 1/4" x 3/8"	39R523
	1/4" x 1/4" x 3/8"	3/8" x 3/8" x 1/2"	39R574
	1/4" x 1/4" x 1/2"	3/8" x 3/8" x 5/8"	39R678
	5/16" x 5/16" x 1/4"	7/16" x 7/16" x 3/8"	39R591
	3/8" x 3/8" x 1/2"	1/2" x 1/2" x 5/8"	39R538
	1/2" x 1/2" x 3/8"	5/8" x 5/8" x 3/4"	39R721
	1/2" x 1/2" x 1"	5/8" x 5/8" x 1 1/8"	39R722
	5/8" x 5/8" x 3/4"	3/4" x 3/4" x 1/8"	39R660
	1" x 1" x 1 1/4"	1 1/8" x 1 1/8" x 1 3/8"	39R603
	1" x 1" x 1 1/2"	1 1/8" x 1 1/8" x 1 5/8"	39R631
	1 1/4" x 1 1/4" x 1 1/2"	1 3/8" x 1 3/8" x 1 5/8"	39R556
	1 1/2" x 1 1/2" x 2"	1 5/8" x 1 5/8" x 2 1/8"	39R635
	2" x 2" x 2 1/2"	2 1/8" x 2 1/8" x 2 5/8"	39R676

Description	Tube Size	Outside Dia.	Item No.
Cap			
C			
	1/8"	1/4"	39R527
	1/4"	3/8"	39R498
	3/8"	1/2"	39R521
	1/2"	5/8"	5P121
	5/8"	3/4"	39R511
	3/4"	7/8"	5P122
	1"	1 1/8"	5P123
	1 1/4"	1 3/8"	5P124
	1 1/2"	1 5/8"	5P125
	2"	2 1/8"	5P126
	2 1/2"	2 5/8"	1VMG6
	3"	3 1/8"	1VMG7
	4"	4 1/8"	1VMG8
C x C			
	1/4"	3/8"	5UGE7 †
	3/8"	1/2"	5UGE8 †
Coupling, Dimple Stop			
C x C			
	1/8"	1/4"	5UGG0 †
	3/16"	5/16"	5UGA2 †
	1/4"	3/8"	5UGA3 †
	3/8"	1/2"	5UGA4 †
	1/2"	5/8"	5UFZ9 †
	5/8"	3/4"	5UGG1 †
	3/4"	7/8"	5UGA0 †
	1"	1 1/8"	1VLH5
	1 1/4"	1 3/8"	1VLH8
	1 1/2"	1 5/8"	1VLJ2
	2"	2 1/8"	1VLJ6
	2 1/2"	2 5/8"	1VLK3
	3"	3 1/8"	1VLK6
	4"	4 1/8"	1VLL1
Coupling, Rolled Tube Stop			
C x C			
	1/8"	1/4"	5P170
	3/16"	5/16"	5P171
	1/4"	3/8"	5P172
	5/16"	7/16"	5P173
	3/8"	1/2"	5P174
	1/2"	5/8"	5P175
	3/4"	7/8"	5P177
	3"	3 1/8"	1VLK7
	4"	4 1/8"	1VLL2
Coupling without Stop			
C x C			
	1/4"	3/8"	1VLP8
	3/8"	1/2"	1VLP9
	1/2"	5/8"	5P207
	5/8"	3/4"	39R656
	3/4"	7/8"	5P208
	1"	1 1/8"	5P209
	1 1/4"	1 3/8"	1VLR1
	1 1/2"	1 5/8"	1VLR2
	1 1/2"	1 5/8"	39R693
	2"	2"	1VLR3
	2"	2 1/8"	39R666
	2 1/2"	2 5/8"	1VLR4
	3"	3 1/8"	1VLR5
	4"	4 1/8"	39R692
Coupling with Stop, Rolled Tube Stop			
C x C			
	1/8"	1/4"	39R513
	3/16"	5/16"	39R619
	1/4"	3/8"	39R491
	5/16"	7/16"	39R544
	1/2"	5/8"	39R489
	5/8"	3/4"	39R493
	3/4"	7/8"	39R490
	7/8"	1"	39R550
	1"	1 1/8"	39R492
	1 1/4"	1 3/8"	39R501
	1 1/2"	1 5/8"	39R509
	2"	2 1/8"	39R516
	2"	2 1/8"	39R531
	2 1/2"	2 5/8"	39R615
	3"	3 1/8"	39R690
	3 1/2"	3 5/8"	39R694
	6"	6 1/8"	39R698
Flush Bushings			
FTG x C			
	1/4" x 1/8"	3/8" x 1/4"	1VMG9
	3/8" x 1/4"	1/2" x 3/8"	1VMH1
	1/2" x 1/4"	5/8" x 3/8"	1VMH2
	1/2" x 3/8"	5/8" x 1/2"	1VMH3
	5/8" x 1/2"	3/4" x 5/8"	1VMH4
	3/4" x 1/2"	7/8" x 3/8"	1VMH7
	3/4" x 5/8"	7/8" x 3/4"	1VMH6
	1" x 1/2"	1 1/8" x 3/8"	1VMH5
	1" x 3/4"	1 1/8" x 7/8"	1VMH8
	1 1/4" x 1"	1 3/8" x 1 1/8"	1VMH9
	1 1/2" x 1 1/4"	1 5/8" x 1 3/8"	1VMJ1
	2" x 1 1/2"	2 1/8" x 1 5/8"	1VMJ2
Plug			
FTG			
	1/2"	5/8"	39R695
	3/4"	7/8"	39R731

Description	Tube Size	Outside Dia.	Item No.
Return Bend			
C x C			
	1/8"	1/4" x 1/8"	39R723
	1/4"	3/8 x 1 3/8"	39R616
	1/4" x 1 1/2"	3/8" x 1 5/8" (1 1/2" C to C)	39R739
	3/8"	1/2"	5P137
	1/2"	5/8"	5P138
	3/4"	7/8"	5P139
	1"	1 1/8"	5P140
	1 1/4"	1 3/8" (4" C to C)	39R743
	1 1/2"	1 5/8" (4 1/2" C to C)	39R754
	2"	2 1/8" (5 1/2" C to C)	39R712
Suction Line P-Trap			
C x C			
	1/2"	5/8"	5P141
	5/8"	3/4"	5P142
	3/4"	7/8"	5P143
	1"	1 1/8"	5UGG7 †
	1"	1 1/8"	39R626
	1 1/4"	1 3/8"	5P145
	1 1/2"	1 5/8"	39R728
Tee			
C x C			
	1/8"	1/4"	5P094
	1/4"	5/16"	5UGG5 †
	1/4"	3/8"	5P095
	3/8"	1/2"	5P097
	5/8"	3/4"	5UGD8 †
C x C x C			
	3/16"	5/16"	39R642
	5/16"	7/16"	39R496
	1/2"	5/8"	5P098
	5/8"	3/4"	39R568
	3/4"	7/8"	5P103
	7/8"	1"	39R684
	1"	1 1/8"	5P109
	1 1/4"	1 3/8"	5P113
	1 1/2"	1 5/8"	5P117
	2"	2 1/8"	39R499
	2 1/2"	2 5/8"	1VMD9
	3"	3 1/8"	1VME5
	4"	4 1/8"	1VMG2
C x FTG x C			
	1/2"	5/8" x 1/2" x 5/8"	39R542
	3/4"	7/8"	39R594
Test Cap			
C			
	1/2"	5/8"	39R549
	1"	1 1/8"	39R582
	1 1/4"	1 3/8"	39R581
	1 1/2"	1 5/8"	39R503
	2"	2 1/8"	39R565
Union			
C x C			
	1/4"	3/8"	1WLJ5
	3/8"	1/2"	1WLJ6
	1/2"	5/8"	1WLJ7
	3/4"	7/8"	1WLJ8
	1"	1 1/8"	1WLJ9
Venturi			
FTG			
	3/4"	7/8"	39R715

Description	Rod Size	Item No.
Tube Strap		
	5/8"	39R584
	2"	39R533

Description	Tube Size	Outside Dia.	Item No.
Reducing Tee (run x run x outlet)			
C x C			
	1/4" x 1/4" x 1/8"	3/8" x 3/8" x 1/4"	5UGA5 †
	3/8" x 1/4" x 1/4"	1/2" x 3/8" x 3/8"	5UGD4 †
	3/8" x 3/8" x 1/8"	1/2" x 1/2" x 1/4"	5UGG6 †
	3/8" x 3/8" x 1/4"	1/2" x 1/2" x 3/8"	5UGA1 †
	1/2" x 1/2" x 1/8"	5/8" x 5/8" x 1/4"	5UGD7 †
	1/2" x 1/2" x 1/4"	5/8" x 5/8" x 3/8"	5UGD6 †
	1/2" x 1/2" x 3/8"	5/8" x 5/8" x 1/2"	5UGD5 †
	3/4" x 1/2" x 3/8"	7/8" x 5/8" x 1/2"	5UGE0 †
	3/4" x 3/4" x 3/8"	7/8" x 7/8" x 1/2"	5UGD9 †
	1" x 3/4" x 1/2"	1 1/8" x 7/8" x 5/8"	5UGE1 †
	1 1/4" x 1" x 1/2"	1 3/8" x 1 1/8" x 3/8"	5UGE4 †
	1 1/2" x 1 1/2" x 1"	1 5/8" x 1 5/8" x 1 1/8"	5UGE5 †
	1 1/2" x 1 1/2" x 3/4"	1 5/8" x 1 5/8" x 7/8"	5UGE6 †
	2" x 2" x 1/2"	2 1/8" x 2 1/8" x 5/8"	5UGG4 †
	2" x 2" x 1 1/4"	2 1/8" x 2 1/8" x 1 3/8"	5UGG3 †
	2" x 2" x 1 1/2"	2 1/8" x 2 1/8" x 1 5/8"	5UGG2 †
C x C x C			
	1/8" x 1/8" x 3/16"	1/4" x 1/4" x 3/16"	39R629
	1/4" x 1/8" x 1/8"	3/8" x 1/4" x 1/4"	39R518
	1/4" x 1/8" x 1/4"	3/8" x 1/4" x 3/8"	1VMC3
	1/4" x 1/4" x 1/8"	3/8" x 3/8" x 1/4"	39R497
	1/4" x 1/4" x 5/16"	3/8" x 3/8" x 7/16"	39R621
	1/4" x 5/16" x 1/4"	3/8" x 7/16" x 3/8"	39R651
	5/16" x 1/8" x 1/8"	7/16" x 1/4" x 1/4"	39R588
	5/16" x 1/8" x 5/16"	7/16" x 1/4" x 7/16"	39R762
	5/16" x 5/16" x 1/8"	7/16" x 7/16" x 1/4"	39R508
	3/8" x 1/8" x 3/8"	1/2" x 1/4" x 1/2"	39R763
	3/8" x 1/4" x 3/8"	1/2" x 3/8" x 1/2"	1VMC4
	3/8" x 1/4" x 1/4"	1/2" x 3/8" x 3/8"	39R536
	3/8" x 3/8" x 1/4"	1/2" x 1/2" x 3/8"	39R502

CONTINUED

† *Mueller Industries brand.*

CONTINUED

Wrot Copper Fittings

MUELLER INDUSTRIES NIBCO

90° Reducing Elbows—Close Rough

C x C

Tube Size	Outside Dia.	Item No.
⅜" x ¼"	½" x ⅜"	39R760
½" x ⅜"	⅝" x ½"	1VLZ1
⅝" x ⅜"	¾" x ½"	39R658
¾" x ½"	⅞" x ⅝"	1VLZ2
¾" x ⅝"	⅞" x ¾"	39R750
1" x ½"	1⅛" x ⅝"	1VLZ4
1" x ¾"	1⅛" x ⅞"	1VLZ3
1¼" x 1"	1⅜" x 1⅛"	1VLZ6
1½" x 1¼"	1⅝" x 1⅜"	1VLZ8
2" x 1½"	2⅛" x 1⅝"	1VMA1

90° Reducing Elbows—Long Radius

C x C

Tube Size	Outside Dia.	Item No.
¼" x ⅛"	⅜" x ¼"	39R738
½" x ¼"	⅝" x ⅜"	1VMB2
½" x ⅜"	⅝" x ½"	39R586
⅝" x ½"	¾" x ⅝"	39R761
¾" x ½"	⅞" x ⅝"	39R562
¾" x ⅝"	⅞" x ¾"	39R644
1" x ¾"	1⅛" x ⅞"	39R618
1" x ⅝"	1⅛" x ¾"	39R707
1¼" x 1"	1⅜" x 1⅛"	39R636

90° Reducing Elbows—Short Radius

C x C

Tube Size	Outside Dia.	Item No.
½" x ⅜"	⅝" x ½"	5P059

Reducer Couplings

C x C

Tube Size	Outside Dia.	Item No.
¼" x ⅛"	⅜" x ¼"	5P183
¼" x 5⁄16"	⅜" x 7⁄16"	5P184
5⁄16" x 3⁄16"	⅜" x 5⁄16"	5UGC0 †
5⁄16" x ⅛"	7⁄16" x ¼"	39R628
⅜" x ⅛"	½" x ¼"	5UGC1 †
⅜" x ⅛"	½" x ¼"	39R630
⅜" x ¼"	½" x ⅜"	5P185
½" x ⅛"	⅝" x ¼"	1VLG7
½" x ¼"	⅝" x ⅜"	5P186
½" x ⅜"	⅝" x ½"	5P187
⅝" x ¼"	¾" x ⅜"	1VLH1
⅝" x ½"	¾" x ⅝"	5P188
⅝" x ⅜"	¾" x ½"	1VLG9
¾" x ¼"	⅞" x ⅜"	1VLH4
¾" x ⅜"	⅞" x ½"	1VLH3
¾" x ½"	⅞" x ⅝"	5P189
¾" x ⅝"	⅞" x ¾"	5P190
1" x ⅜"	1⅛" x ½"	39R622
1" x ½"	1⅛" x ⅝"	5P191
1" x ⅝"	1⅛" x ¾"	1VLH7
1" x ¾"	1⅛" x ⅞"	5P192
1¼" x ½"	1⅜" x ⅜"	39R573
1¼" x ⅝"	1⅜" x ¾"	39R657
1¼" x ¾"	1⅜" x ⅞"	5P193
1¼" x 1"	1⅜" x 1⅛"	5P194
1½" x ½"	1⅝" x ⅜"	39R583
1½" x ¾"	1⅝" x ⅞"	39R532
1½" x ¾"	1⅝" x ⅞"	5UGC2 †
1½" x 1"	1⅝" x 1⅛"	1VLJ5
1½" x 1¼"	1⅝" x 1⅜"	1VLJ4
2" x ½"	2⅛" x ⅜"	1VLK2
2" x ¾"	2⅛" x ⅞"	39R578
2" x 1"	2⅛" x 1⅛"	1VLK1
2" x 1¼"	2⅛" x 1⅜"	1VLJ9
2" x 1½"	2⅛" x 1⅝"	1VLJ8
2½" x 1"	2⅝" x 1⅛"	39R683
2½" x 1¼"	2⅝" x 1⅜"	39R716
2½" x 1½"	2⅝" x 1⅝"	39R611
2½" x 2"	2⅝" x 2⅛"	1VLK5
3" x 1½"	3⅛" x 1⅝"	39R649
3" x 2"	3⅛" x 2⅛"	1VLK9
3" x 2½"	3⅛" x 2⅝"	1VLK8
4" x 2"	4⅛" x 2⅛"	1VLL5
4" x 2½"	4⅛" x 2⅝"	1VLL4
4" x 3"	4⅛" x 3⅛"	1VLL3

FTG x C

Tube Size	Outside Dia.	Item No.
⅝" x ⅜"	¾" x ½"	39R557
1½" x ½"	1⅝" x ⅝"	39R569
1½" x ¾"	1⅝" x ⅞"	39R520
2" x ¾"	2⅛" x ⅞"	39R552
2½" x 1"	2⅝" x 1⅛"	39R659
2½" x 1¼"	2⅝" x 1⅜"	39R662
2½" x 1½"	2⅝" x 1⅝"	39R614
3" x 1¼"	3⅛" x 1⅜"	39R734
3" x 1½"	3⅛" x 1⅝"	39R653
3½" x 3"	3⅝" x 3⅛"	39R758

Reducer Coupling with Stops, Rolled Tube Stop

C x C

Tube Size	Outside Dia.	Item No.
1¼"	1⅜"	39R640
1½"	1⅝"	39R526
2" x 1½"	2⅛" x 1⅝"	39R623

Reducer Fittings

FTG x C

Tube Size	Outside Dia.	Item No.
¼" x ⅛"	⅜" x ¼"	5P195
⅜" x ⅛"	½" x ¼"	1VLL7
⅜" x ¼"	½" x ⅜"	5P196
½" x ¼"	⅝" x ⅜"	5P197
½" x ⅜"	⅝" x ½"	5P198
⅝" x ¼"	¾" x ⅜"	1VLL8

Reducer Fittings (Cont.)

FTG x C (Cont.)

Tube Size	Outside Dia.	Item No.
⅝" x ½"	¾" x ⅝"	5P199
¾" x ¼"	⅞" x ⅜"	1VLN1
¾" x ⅜"	⅞" x ½"	1VLL9
¾" x ½"	⅞" x ⅝"	5P200
¾" x ⅝"	⅞" x ¾"	5P201
1" x ½"	1⅛" x ⅝"	5P202
1" x ⅝"	1⅛" x ¾"	1VLN2
1" x ¾"	1⅛" x ⅞"	5P203
1¼" x ½"	1⅜" x ⅝"	1VLN4
1¼" x ¾"	1⅜" x ⅞"	1VLN3
1¼" x 1"	1⅜" x 1⅛"	5P204
1½" x 1"	1⅝" x 1⅛"	5P205
1½" x 1¼"	1⅝" x 1⅜"	5P206
2" x ½"	2⅛" x ⅝"	1VLP1
2" x 1"	2⅛" x 1⅛"	1VLN9
2" x 1¼"	2⅛" x 1⅜"	1VLN8
2" x 1½"	2⅛" x 1⅝"	1VLN7
2½" x 2"	2⅝" x 2⅛"	1VLP2
3" x 2"	3⅛" x 2⅛"	1VLP4
3" x 2½"	3⅛" x 2⅝"	1VLP3
4" x 2"	4⅛" x 2⅛"	1VLP7
4" x 2½"	4⅛" x 2⅝"	1VLP6
4" x 3"	4⅛" x 3⅛"	1VLP5

Reducer Flush Bushings

C x FTG

Tube Size	Outside Dia.	Item No.
1½" x 1¼"	1⅝" x 1⅜"	39R756
2" x 1½"	2⅛" x 1⅝"	39R601

FTG x FNPT

Tube Size	Outside Dia.	Item No.
½"	⅝" x ⅜"	39R512
½"	⅝" x ¼"	39R522

Reducing Adapter

C x C

Tube Size	Outside Dia.	Item No.
1½" x ¾"	1⅝" x ⅞"	5UGC5 †

C x FNPT

Tube Size	Outside Dia.	Item No.
⅛"	¼"	1VLR7
¼"	⅜"	1VLR9
⅜"	½" x ⅜"	1VLT3
⅜"	½" x ⅝"	1VLT2
½"	⅝" x ⅜"	5P014
½"	⅝" x ½"	5P210
½"	⅝" x ⅞"	5P016
⅝"	¾" x ⅝"	1VLT5
⅜"	¾" x ⅞"	1VLT4
¾"	⅞" x ⅝"	5P017
¾"	⅞"	1VLT6
1"	1⅛"	1VLT8
1"	1⅛"	1VLT9
1¼"	1⅜"	1VLU1
1¼"	1⅜"	1VLU2
1½"	1⅝"	1VLU3
1½"	1⅝"	1VLU4
2"	2⅛"	1VLU6

C x FTG

Tube Size	Outside Dia.	Item No.
⅝" x ⅜"	¾" x ½"	5UGC3 †
1" x ⅜"	1⅛" x ½"	5UGC4 †

C x MNPT

Tube Size	Outside Dia.	Item No.
⅛"	¼" x ¼"	1VLU9
⅜"	½" x ½"	1VLV4
⅜"	½" x ¾"	1VLV3
½"	⅝" x ¼"	1VLV7
½"	⅝" x ⅜"	5P027
½"	⅝" x ¾"	5P028
½"	⅝" x 1"	1VLV6
⅝"	¾" x ½"	1VLV9
⅝"	¾" x ¾"	1VLV8
¾"	⅞" x ½"	5P029
¾"	⅞" x 1"	5P031
1"	1⅛" x ¾"	1VLW5
1"	1⅛" x 1¼"	1VLW3
1"	1⅛" x 1½"	1VLW4
1¼"	1⅜" x 1"	1VLW8
1¼"	1⅜" x 1½"	1VLW7
1½"	1⅝" x 1"	1VLX1
1½"	1⅝" x 1¼"	1VLX2
1½"	1⅝" x 2"	1VLX3
2"	2⅛" x 1½"	1VLX4

Reducing Tee (run x run x outlet)

C x C x C

Tube Size	Outside Dia.	Item No.
⅜" x ⅜" x ⅛"	½" x ½" x ¼"	39R515
⅜" x ⅜" x 5⁄16"	½" x ½" x 7⁄16"	39R744
½" x ¼" x ⅜"	⅝" x ⅜" x ½"	39R764
½" x ⅜" x ⅜"	⅝" x ½" x ½"	39R563
½" x ⅜" x ½"	⅝" x ½" x ⅝"	1VMC5
½" x ⅜" x ¼"	⅝" x ½" x ⅜"	39R710
½" x ½" x ¾"	⅝" x ⅝" x ⅞"	5P099
½" x ½" x ¼"	⅝" x ⅝" x ⅜"	39R519
½" x ½" x ⅜"	⅝" x ⅝" x ½"	39R528
½" x ½" x ⅛"	⅝" x ⅝" x ¼"	39R579
⅝" x ½" x ½"	¾" x ⅝" x ⅝"	39R703
⅝" x ⅜" x ½"	¾" x ¾" x ½"	39R663
⅝" x ⅜" x ¼"	¾" x ¾" x ⅜"	39R702
⅝" x ⅝" x ⅜"	¾" x ¾" x ½"	39R610
¾" x ⅜" x ¾"	⅞" x ½" x ⅞"	39R706

Reducing Tee (run x run x outlet) (Cont.)

C x C x C (Cont.)

Tube Size	Outside Dia.	Item No.
¾" x ⅜" x ⅜"	⅞" x ½" x ½"	39R757
¾" x ½" x ½"	⅞" x ⅝" x ⅝"	5P100
¾" x ⅝" x ⅝"	⅞" x ¾" x ¾"	39R740
¾" x ¾" x ⅜"	⅞" x ⅞" x ½"	39R539
¾" x ¾" x ⅛"	⅞" x ⅞" x ¼"	39R705
¾" x ¾" x ¼"	⅞" x ⅞" x ⅜"	39R589
¾" x ¾" x ½"	⅞" x ⅞" x ⅝"	5P102
¾" x ¾" x ⅝"	⅞" x ⅞" x ¾"	39R674
¾" x ¾" x 1"	⅞" x ⅞" x 1⅛"	5P104
1" x ½" x ½"	1⅛" x ⅝" x ⅝"	39R613
1" x ½" x ¾"	1⅛" x ⅝" x ⅞"	39R632
1" x ½" x 1"	1⅛" x ⅝" x 1⅛"	1VMC7
1" x ¾" x ½"	1⅛" x ⅞" x ⅝"	39R546
1" x ¾" x ¾"	1⅛" x ⅞" x ⅞"	5P105
1" x ¾" x 1"	1⅛" x ⅞" x 1⅛"	5P106
1" x 1" x 1¼"	1⅛" x 1⅛" x ⅜"	39R654
1" x 1" x ⅜"	1⅛" x 1⅛" x 1½"	39R718
1" x 1" x ½"	1⅛" x 1⅛" x ⅝"	5P107
1" x 1" x ¾"	1⅛" x 1⅛" x ⅞"	5P108
1" x 1" x ⅝"	1⅛" x 1⅛" x 1¾"	39R685
1¼" x ½" x 1¼"	1⅜" x ⅝" x 1⅜"	1VMD1
1¼" x ¾" x ½"	1⅜" x ⅞" x ⅝"	39R741
1¼" x ¾" x ¾"	1⅜" x ⅞" x ⅞"	39R564
1¼" x ¾" x 1"	1⅜" x ⅞" x 1⅛"	39R625
1¼" x ¾" x 1¼"	1⅜" x ⅞" x 1⅜"	1VMC9
1¼" x 1" x ½"	1⅜" x 1⅛" x ⅝"	39R598
1¼" x 1" x ¾"	1⅜" x 1⅛" x ⅞"	39R543
1¼" x 1" x 1"	1⅜" x 1⅛" x 1⅛"	39R525
1¼" x 1" x 1¼"	1⅜" x 1⅛" x 1⅜"	1VMC8
1¼" x 1¼" x ⅜"	1⅜" x 1⅜" x ½"	39R746
1¼" x 1¼" x ½"	1⅜" x 1⅜" x ⅝"	5P110
1¼" x 1¼" x ¾"	1⅜" x 1⅜" x ⅞"	5P111
1¼" x 1¼" x 1"	1⅜" x 1⅜" x 1⅛"	5P112
1½" x ¾" x ¾"	1⅝" x ⅞" x ⅞"	39R668
1½" x ¾" x 1"	1⅝" x ⅞" x 1⅛"	39R688
1½" x ¾" x 1¼"	1⅝" x ⅞" x 1⅜"	39R696
1½" x ¾" x 1½"	1⅝" x ⅞" x 1⅝"	1VMD4
1½" x 1" x ½"	1⅝" x 1⅛" x ⅝"	1VMD5
1½" x 1" x ¾"	1⅝" x 1⅛" x ⅞"	39R638
1½" x 1" x 1"	1⅝" x 1⅛" x 1⅛"	39R555
1½" x 1" x 1¼"	1⅝" x 1⅛" x 1⅜"	39R679
1½" x 1" x 1½"	1⅝" x 1⅛" x 1⅝"	1VMD3
1½" x 1¼" x 1½"	1⅝" x 1⅜" x 1⅝"	1VMD2
1½" x 1¼" x ½"	1⅝" x 1⅜" x ⅝"	39R686
1½" x 1¼" x ¾"	1⅝" x 1⅜" x ⅞"	39R599
1½" x 1¼" x 1"	1⅝" x 1⅜" x 1⅛"	39R602
1½" x 1¼" x 1¼"	1⅝" x 1⅜" x 1⅜"	39R587
1½" x 1½" x ½"	1⅝" x 1⅝" x ⅝"	5P114
1½" x 1½" x ¾"	1⅝" x 1⅝" x ⅞"	5P115
1½" x 1½" x 1"	1⅝" x 1⅝" x 1⅛"	5P116
1½" x 1½" x 1¼"	1⅝" x 1⅝" x 1⅜"	39R554
1½" x 1½" x 1½"	2⅛"	39R597
2" x ½" x 2"	2⅛" x ⅝" x 2⅛"	39R637
2" x ¾" x 2"	2⅛" x ⅞" x 2⅛"	1VMD8
2" x 1" x 1"	2⅛" x 1⅛" x 1⅛"	39R645
2" x 1" x 2"	2⅛" x 1⅛" x 2⅛"	1VMD7
2" x 1¼" x 1"	2⅛" x 1⅜" x 1⅛"	39R755
2" x 1¼" x 1¼"	2⅛" x 1⅜" x 1⅜"	39R655
2" x 1¼" x 1½"	2⅛" x 1⅜" x 1⅝"	39R732
2" x 1¼" x 2"	2⅛" x 1⅜" x 2⅛"	1VMD6
2" x 1½" x ½"	2⅛" x 1⅝" x ⅝"	39R729
2" x 1½" x ¾"	2⅛" x 1⅝" x ⅞"	39R646
2" x 1½" x 1"	2⅛" x 1⅝" x 1⅛"	39R639
2" x 1½" x 1¼"	2⅛" x 1⅝" x 1⅜"	39R667
2" x 1½" x 1½"	2⅛" x 1⅝" x 1⅝"	39R580
2" x 1½" x 2"	2⅛" x 1⅝" x 2⅛"	39R661
2" x 2" x ½"	2⅛" x 2⅛" x ⅝"	39R514
2" x 2" x ¾"	2⅛" x 2⅛" x ⅞"	5P118
2" x 2" x 1"	2⅛" x 2⅛" x 1⅛"	5P119
2" x 2" x 1¼"	2⅛" x 2⅛" x 1⅜"	39R540
2" x 2" x 1½"	2⅛" x 2⅛" x 1⅝"	39R530
2½" x ¾" x 2½"	2⅝" x ⅞" x 2⅝"	39R681
2½" x 1½" x 2½"	2⅝" x 1⅝" x 2⅝"	39R759
2½" x 2" x 1½"	2⅝" x 2⅛" x 1⅝"	39R748
2½" x 2" x 2"	2⅝" x 2⅛" x 2⅛"	39R650
2½" x 2" x 2½"	2⅝" x 2⅛" x 2⅝"	39R737
2½" x 2½" x ½"	2⅝" x 2⅝" x ⅝"	39R605
2½" x 2½" x ¾"	2⅝" x 2⅝" x ⅞"	39R558
2½" x 2½" x 1"	2⅝" x 2⅝" x 1⅛"	1VME4
2½" x 2½" x 1¼"	2⅝" x 2⅝" x 1⅜"	1VME3
2½" x 2½" x 1½"	2⅝" x 2⅝" x 1⅝"	1VME2
2½" x 2½" x 2"	2⅝" x 2⅝" x 2⅛"	1VME1
3" x ¾" x 3"	3⅛" x ⅞" x 3⅛"	39R708
3" x 2" x 2"	3⅛" x 2⅛" x 2⅛"	39R701
3" x 2½" x 2½"	3⅛" x 2⅝" x 2⅝"	39R753
3" x 3" x ½"	3⅛" x 3⅛" x ⅝"	39R665
3" x 3" x ¾"	3⅛" x 3⅛" x ⅞"	39R604
3" x 3" x 1"	3⅛" x 3⅛" x 1⅛"	1VMG1
3" x 3" x 1¼"	3⅛" x 3⅛" x 1⅜"	1VME9
3" x 3" x 1½"	3⅛" x 3⅛" x 1⅝"	1VME8
3" x 3" x 2"	3⅛" x 3⅛" x 2⅛"	1VME7
3" x 3" x 2½"	3⅛" x 3⅛" x 2⅝"	1VME6
4" x 4" x ¾"	4⅛" x 4⅛" x ⅞"	39R717
4" x 4" x 1"	4⅛" x 4⅛" x 1⅛"	39R749
4" x 4" x 1½"	4⅛" x 4⅛" x 1⅝"	39R724
4" x 4" x 2"	4⅛" x 4⅛" x 2⅛"	1VMG5
4" x 4" x 2½"	4⅛" x 4⅛" x 2⅝"	1VMG4
4" x 4" x 3"	4⅛" x 4⅛" x 3⅛"	1VMG3

† Mueller Industries brand.

MUELLER INDUSTRIES NIBCO

Drain, Waste and Vent Wrot Copper Fittings

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Adapter				
	C x MNPT	1½"	1⅝"	**5UGA7** †
	C x SJ	1½"	1⅝"	**5UGH1** †
DWV Closet Flange				
	C	4" x 3"	4⅛ x 3⅛"	**39R733**
DWV Coupling				
	C x C	1½"	1⅝"	**5UGE9** †
	C x C	2"	2⅛"	**5UGF0** †

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Elbow, 45°				
	C x C	1¼"	1⅜"	**39R624**
	C x C	1½"	1⅝"	**5UGF3** †
	C x C	1½"	1⅝"	**39R510**
	C x C	2"	2⅛"	**5UGF4** †
	C x C	2"	2⅛"	**39R517**
	C x C	3"	3⅛"	**39R687**
	C x FTG	1¼"	1⅜"	**39R675**
	C x FTG	1½"	1⅝"	**39R524**
	C x FTG	2"	2⅛"	**5UGF6** †
	C x FTG	2"	2⅛"	**39R535**
	C x FTG	3"	3⅛"	**39R725**
DWV Elbow, 60°				
	C x C	1½"	1⅝"	**39R673**
DWV Elbow, 90°				
	C x C	1¼"	1⅜"	**39R545**
	C x C	1½"	1⅝"	**5UGF1** †
	C x C	1½"	1⅝"	**39R494**
	C x C	2"	2⅛"	**5UGF2** †
	C x C	2"	2⅛"	**39R505**
	C x C	3"	3⅛"	**39R664**
	C x FTG	1¼"	1⅜"	**39R699**
	C x FTG	1½"	1⅝"	**39R547**
	C x FTG	2"	2⅛"	**39R575**
	C x FTG	3"	3" x 3⅛"	**39R736**

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Long Radius Elbow, 90°				
	C x C	1½"	1⅝"	**39R566**
DWV Reducing Tee				
	C x C x C	2" x 2" x 1½"	2⅛" x 2⅛" x 1⅝"	**39R553**
	C x C x C	2" x 1½" x 1½"	2⅛" x 1⅝" x 1⅝"	**39R672**
	C x C x C	2" x 1½" x 2"	2⅛" x 1⅝" x 2⅛"	**39R689**
DWV Street Elbow, 45°				
	C x FTG	1½"	1⅝"	**5UGF5** †
DWV Tee				
	C x C	2"	2⅛"	**5UGF7** †
	C x C x C	1¼"	1⅜"	**39R641**
	C x C x C	1½"	1⅝"	**39R537**
	C x C x C	2"	2⅛"	**39R534**
DWV Test Cap				
	C x C	½"	⅝"	**5UGF8** †
	C x C	1½"	1⅝"	**5UGF9** †

† Mueller Industries brand.

Cast Copper and Bronze Fittings

NIBCO GA GRAINGER APPROVED

- Temp. range: -20° to 400°F, except Nos. 1WLH5 to 1WJL1 are 0° to 400°F and No. 36N483 is 40° to 100°F

Feature higher pressure ratings than most wrot copper fittings. GA models are compatible with wrot copper fittings. All models are for use in nondrinking water and air applications. Meet ANSI B16.18, except Nos. 36N483 to 36N559 meet ASME B16.26.

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Max. Press. (psi @ °F)	Outside Dia.	Brand	Item No.
45° Wye								
	Cast Bronze	C x C x C	¾"	—	466 @200	⅞"	Nibco	**36N538**
		C x C x C	1"	—	395 @200	1⅛"	Nibco	**36N539**
90° Drop Ear Elbow								
	Cast Copper	C x C	½"	—	722 @100	⅝"	Nibco	**5P158**
		C x FNPT	½"	½"	722 @100	⅝"	Nibco	**5P154**
	Cast Bronze	C x C	¾"	—	466 @200	⅞"	Nibco	**36N507**
		C x FNPT	1"	1"	395 @200	1⅛"	Nibco	**36N503**
90° Elbow								
	Cast Bronze	C x FNPT	½"	½"	577 @200	⅝"	Nibco	**36N499**
		C x FNPT	½"	½"	722 @100	⅝"	Nibco	**5P150**
	Cast Copper	C x MNPT	½"	½"	722 @100	⅝" x ½"	Nibco	**5P156**
		C x FNPT	¾"	¾"	582 @ 100	⅞" x ¾"	Nibco	**5P151**
	Cast Bronze	C x MNPT	1"	1"	395 @200	1⅛" x 1"	Nibco	**36N505**
	Cast Copper	C x FNPT	1"	1"	494 @ 100	1⅛"	Nibco	**5P152**
90° Reducing Drop Elbow								
	Cast Copper	C x FNPT	½"	⅜"	722 @100	⅝" x ½"	Nibco	**5P149**
		C x FNPT	¾"	½"	582 @ 100	⅞" x ⅝"	Nibco	**1WLH3**
90° Reducing Elbow								
	Cast Bronze	C x FNPT	½"	¾"	466 @200	⅝" x ⅞"	Nibco	**36N501**
		C x FNPT	¾"	1"	395 @200	⅞" x 1⅛"	Nibco	**36N502**
		C x C	1¼" x ¾"	—	351 @200	1⅜" x ⅞"	Nibco	**36N497**
		C x C	1½" x 1"	—	327 @200	1⅝" x 1⅛"	Nibco	**36N498**
90° Union Elbow								
	Cast Bronze	C x C	¾"	—	466 @200	⅞"	Nibco	**36N508**
		C x MNPT	¾"	¾"	466 @200	⅞" x ¾"	Nibco	**36N506**
Adapter								
	Cast Copper	C x MNPT	½"	½"	722 @100	⅝" x ½"	Nibco	**5P147**
Baseboard Tee (run x run x outlet)								
	Cast Bronze	C x FNPT x C	1"	⅛"	395 @200	1⅛" x ¼" x 1⅛"	Nibco	**36N493**

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Max. Press. (psi @ °F)	Outside Dia.	Brand	Item No.
Drain Coupling								
	Cast Bronze	C x C	½"	—	577 @200	⅝"	Nibco	**36N484**
		C x C	¾"	—	466 @200	⅞"	Nibco	**36N485**
DWV 45° Wye								
	Cast Bronze	C x C x C	1½"	—	577 @200	1⅝"	Nibco	**36N547**
		C x C x C	2"	—	466 @200	2⅛"	Nibco	**36N548**
DWV Adapter								
	Cast Bronze	C x MNPT	1½"	1½"	395 @200	1⅝" x 1½"	Nibco	**36N544**
		C x MNPT	1½"	1½"	577 @200	1⅝" x 1½"	Nibco	**36N540**
		C x MNPT	2"	2"	577 @200	2⅛" x 2"	Nibco	**36N545**
DWV Fitting Cleanout								
	Cast Bronze	FTG x Cleanout with Plug	1½"	—	395 @200	1⅝" x 1½"	Nibco	**36N553**
		FTG x Cleanout with Plug	2"	—	351 @200	2⅛" x 2"	Nibco	**36N554**
DWV Flush Adapter								
	Cast Bronze	C x MNPT	1½"	1½"	466 @200	1⅝" x 1½"	Nibco	**36N541**
DWV Long Turn Tee Wye								
	Cast Bronze	C x C x C	1½"	—	291 @200	1⅝"	Nibco	**36N551**
		C x C x C	2"	—	351 @200	2⅛"	Nibco	**36N550**
DWV No Hub Soil Pipe Adapter								
	Cast Bronze	C x No Hub	2"	—	466 @200	2⅛" x 2"	Nibco	**36N546**
DWV P-Trap								
	Cast Bronze	C x C	1½"	—	466 @200	1⅝"	Nibco	**36N558**
		C x C	2"	—	395 @200	2⅛"	Nibco	**36N559**
DWV P-Trap with Clean Out								
	Cast Bronze	C x C	1½"	—	577 @200	1⅝"	Nibco	**36N557**
DWV Return Bend								
	Cast Bronze	C x C	1½"	—	291 @200	1⅝"	Nibco	**36N556**
DWV Threaded Piece								
	Cast Bronze	C x MNPT	1¼"	1¼"	466 @200	1⅜" x 1¼"	Nibco	**36N542**
		C x MNPT	1½"	1½"	395 @200	1⅝" x 1½"	Nibco	**36N543**
Fitting Union								
	Cast Bronze	C x MNPT	⅜"	⅜"	623 @200	½" x ⅜"	Nibco	**36N532**
		C x FNPT	½"	½"	577 @200	⅝"	Nibco	**36N527**
		C x FNPT	¾"	¾"	466 @ 200	⅞"	Nibco	**36N528**
		C x FNPT	1"	1"	395 @200	1⅛"	Nibco	**36N529**
		C x MNPT	1"	1"	395 @200	1⅛" x 1"	Nibco	**36N533**
		C x FNPT	1¼"	1¼"	351 @200	1⅜"	Nibco	**36N530**
		C x MNPT	1¼"	1¼"	351 @200	1⅜" x 1¼"	Nibco	**36N534**
		C x MNPT	1½"	1½"	327 @200	1⅝" x 1½"	Nibco	**36N535**
		C x FNPT	2"	2"	291 @200	2⅛"	Nibco	**36N531**
		C x MNPT	2"	2"	291 @200	2⅛" x 2"	Nibco	**36N536**

CONTINUED

CONTINUED

NIBCO GA GRAINGER APPROVED

Cast Copper and Bronze Fittings

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Outside Dia.	Max. Press. (psi @ °F)	Brand	Item No.
Flange								
	Cast Copper	C x Flange	1"	—	1⅛"	105 @ 100	Nibco	**1WLH5**
		C x Flange	1¼"	—	1⅜"	105 @ 100	Nibco	**1WLH8**
		C x Flange	1½"	—	1⅝"	100 @ 100	Nibco	**1WLH9**
		C x Flange	2"	—	2⅛"	100 @ 100	Nibco	**1WLH6**
		C x Flange	2½"	—	2⅝"	100 @100	Nibco	**1WLJ1**
		C x Flange	3"	—	3⅛"	95 @ 100	Nibco	**1WLH7**
Flush Adapter								
	Cast Copper	C x MNPT	½"	½"	⅝"	722 @ 100	GA	**24W566**
Hose Adapter								
	Cast Bronze	C x Hose	½"	—	⅝" x ½"	577 @200	Nibco	**36N491**
Hy-Set Hanger								
	Cast Bronze	C	½"	—	—	577 @200	Nibco	**36N525**
		C	¾"	—	—	466 @200	Nibco	**36N526**
Reducing Adapter								
	Cast Bronze	FTG x FNPT	½"	¼"	⅝" x ⅜"	577 @200	Nibco	**36N487**
		FTG x FNPT	¾"	½"	⅞" x ⅝"	466 @200	Nibco	**36N488**
		C x FNPT	1¼"	¾"	1⅜" x ⅞"	351 @200	Nibco	**36N486**
Reducing Tee (run x run x outlet)								
	Cast Bronze	C x C x FNPT	½"	¼"	⅝" x ⅜" x ⅜"	577 @200	Nibco	**36N513**
		C x C x FNPT	½"	¾"	⅝" x ⅝" x ⅞"	466 @200	Nibco	**36N512**
		C x FNPT x C	¾"	½"	⅞" x ⅜" x ⅞"	466 @200	Nibco	**36N522**
	Cast Copper	C x C x FNPT	¾"	½"	⅞ x ⅞"	582 @ 100	GA	**24W594**
	Cast Bronze	C x FNPT x C	1"	½"	1⅛" x ⅜" x 1⅛"	395 @200	Nibco	**36N524**
		C x C x FNPT	1"	½"	1⅜" x 1⅜" x ⅞"	395 @200	Nibco	**36N515**
		C x FNPT x C	1"	¾"	1⅛" x ⅞" x 1⅛"	395 @200	Nibco	**36N523**
		C x C x FNPT	1"	¾"	1⅛" x 1¼" x ¾"	395 @200	Nibco	**36N514**
		C x C x FNPT	1¼"	½"	1⅜" x 1⅜" x ½"	351 @200	Nibco	**36N517**
		C x C x FNPT	1¼"	¾"	1⅜" x 1⅜" x ¾"	351 @200	Nibco	**36N516**
		C x C x FNPT	1½"	½"	1⅝" x 1⅝" x ⅝"	327 @200	Nibco	**36N518**

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Outside Dia.	Max. Press. (psi @ °F)	Brand	Item No.
Reducing Wye								
	Cast Bronze	C x C x C	2" x 2" x 1½"	—	2⅛" x 2⅛" x 1⅝"	395 @200	Nibco	**36N549**
Special Drop Adapter								
	Cast Bronze	C x FNPT	½"	½"	⅝"	577 @200	Nibco	**36N489**
		C x FNPT	¾"	¾"	⅞"	466 @200	Nibco	**36N490**
Tee								
	Cast Bronze	C x FNPT x C	½"	½"	⅝"	577 @200	Nibco	**36N520**
	Cast Copper	C x C x FNPT	½"	½"	⅝ x ⅝"	722 @ 100	GA	**24W589**
	Cast Bronze	C x FNPT x C	¾"	¾"	⅞"	466 @200	Nibco	**36N521**
	Cast Copper	C x C x FNPT	¾"	¾"	⅞"	582 @ 100	Nibco	**5P160**
Tube Nut								
	Cast Bronze		—	1"	—	175	Nibco	**36N483**
Union								
	Cast Copper	C x C	¼"	—	⅜"	912 @ 100	Nibco	**1WLJ2**
		C x C	⅜"	—	½"	779 @ 100	Nibco	**1WLJ3**
		C x C	½"	—	⅝"	722 @100	Nibco	**5P162**
		C x C	½"	—	⅝"	722 @ 100	GA	**24W569**
		C x MNPT	½"	½"	⅝" x ½"	722 @100	Nibco	**5P168**
		C x MNPT	½"	½"	⅝"	722 @ 100	GA	**24W564**
		C x C	¾"	—	⅞"	580 @ 100	GA	**24W570**
		C x C	¾"	—	⅞"	582 @ 100	Nibco	**5P163**
		C x MNPT	¾"	¾"	⅞"	582 @ 100	GA	**24W565**
		C x MNPT	¾"	¾"	⅞" x ¾"	582 @ 100	Nibco	**5P169**
		C x C	1"	—	1⅛"	494 @ 100	Nibco	**5P164**
		C x C	1"	—	1⅛"	494 @ 100	GA	**24W571**
		C x C	1¼"	—	1⅜"	439 @ 100	Nibco	**5P165**
		C x C	1¼"	—	1⅜"	439 @ 100	GA	**24W572**
		C x C	1½"	—	1⅝"	405 @ 100	GA	**24W573**
		C x C	1½"	—	1⅝"	408 @ 100	Nibco	**5P166**
		C x C	2"	—	2⅛"	364 @ 100	Nibco	**5P167**
		C x C	2"	—	2⅛"	364 @ 100	GA	**24W574**
		C x C	2½"	—	2⅝"	336 @ 100	Nibco	**1WLJ4**
		C x C	2½"	—	2⅝"	336 @ 100	GA	**24W575**
		C x C	3"	—	3⅛"	317 @ 100	Nibco	**1WLH2**
		C x C	3"	—	3⅛"	317 @ 100	GA	**24W576**
Vent Elbow								
	Cast Bronze	C x C	½"	—	⅝"	577 @200	Nibco	**36N494**
		C x C	¾"	—	⅞"	466 @200	Nibco	**36N495**
		C x C	1"	—	1⅛"	395 @200	Nibco	**36N496**

NIBCO

Lead-Free Cast Bronze Fittings

- Temp. range: -20° to 200°F

Meet NSF/ANSI 61 Annex G, except Nos. 40F183 to 40F268 meet ASTM B584 Alloy C87850, Third-Party Certified To NSF/ANSI 61 Annex G, and ASME B16.18. Certified for use in potable water applications.

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
45° Wye						
	C x C x C	½"	—	⅝"	577 psi	**40F252**
	C x C x C	¾"	—	⅞"	466 psi	**40F253**
	C x C x C	1"	—	1⅛"	395 psi	**40F254**
90° Drop Ear Elbow						
	C x FNPT	½"	⅜"	⅝" x ½"	577 psi	**40F187**
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5EFW3**
	C x FNPT	¾"	½"	⅞" x ½"	466 psi	**5GEV3**
	C x FNPT	¾"	¾"	⅞" x ¾"	466 psi	**5GEV2**
	C x FNPT	1"	1"	1⅛" x 1"	395 psi	**5GEV4**
90° Elbow						
	C x FNPT	¼"	¼"	⅜"	729 psi	**40F207**
	C x FNPT	⅜"	⅜"	½"	623 psi	**40F208**
	C x MNPT	⅜"	⅜"	½"	623 psi	**40F222**
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5EFW0**
	C x MNPT	½"	½"	⅝" x ½"	577 psi	**5GEV6**
	C x MNPT	½"	½"	⅝"	577 psi	**40F223**
	C x FNPT	¾"	¾"	⅞" x ¾"	466 psi	**5EFW1**
	C x MNPT	¾"	¾"	⅞" x ¾"	466 psi	**5GEV7**
	C x MNPT	¾"	¾"	⅞"	466 psi	**40F224**
	C x FNPT	1"	1"	1⅛" x 1"	395 psi	**5EFW2**
	C x MNPT	1"	1"	1⅛" x 1"	395 psi	**5GEV8**
	C x MNPT	1"	1"	1⅛"	385 psi	**40F225**
	C x FNPT	1¼"	1¼"	1⅜"	351 psi	**40F216**
	C x FNPT	1½"	1½"	1⅝"	327 psi	**40F217**
	C x FNPT	2"	2"	2¼"	291 psi	**40F218**
	C x MNPT	2"	2"	2¼"	291 psi	**40F221**
90° Elbow, HY Set						
	C x C	½"	—	⅝"	577 psi	**5GEW3**
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5GEV5**
90° Elbow, Sink Flanged						
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5GEW5**
90° Elbow, Vent						
	C x C	½"	—	⅝"	577 psi	**5EFV8**
	C x C	¾"	—	⅞"	466 psi	**5EFV9**
	C x C	1"	—	1⅛"	395 psi	**40F204**

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
90° Reducing Elbow						
	C x FNPT	½"	¼"	⅝" x ⅜"	577 psi	**40F211**
	C x FNPT	½"	⅜"	⅝" x ½"	577 psi	**40F210**
	C x FNPT	½"	¾"	⅝" x ⅞"	577 psi	**40F209**
	C x MNPT	½"	¾"	⅝" x ⅞"	577 psi	**40F219**
	C x FNPT	¾"	½"	⅞" x ⅝"	466 psi	**40F213**
	C x MNPT	¾"	½"	⅞" x ⅝"	466 psi	**40F220**
	C x FNPT	¾"	1"	⅞" x 1⅛"	466 psi	**40F212**
	C x FNPT	1"	½"	1⅛" x ⅝"	385 psi	**40F215**
	C x FNPT	1"	¾"	1⅛" x ⅞"	385 psi	**40F214**
	C x C	1¼" x ¾"	—	1⅜" x ⅞"	351 psi	**40F205**
	C x C	1½" x 1"	—	1⅝" x 1⅛"	327 psi	**40F206**
90° Union Elbow						
	C x C	½"	—	⅝"	623 psi	**40F226**
Adapter						
	C x FNPT	½"	1"	⅝" x 1⅛"	395 psi	**40F194**
	C x FNPT	¾"	½"	⅞" x ½"	466 psi	**5EFV4**
	C x FNPT	1"	¾"	1⅛" x ¾"	395 psi	**5EFV5**
Baseboard Tee						
	C x FNPT	¾"	⅛"	—	466 psi	**40F188**
Class 150 Companion Flange						
	C	1"	—	4¼"	395 psi	**40F256**
	C	1¼"	—	4⅝"	351 psi	**40F257**
	C	1½"	—	5"	327 psi	**40F258**
	C	2"	—	6"	291 psi	**40F259**
	C	2½"	—	7"	269 psi	**40F260**
	C	3"	—	7½"	254 psi	**40F261**
	C	4"	—	9"	235 psi	**40F262**
	C	5"	—	10"	215 psi	**40F263**
	C	6"	—	11"	201 psi	**40F264**
Class 150 Threaded Companion Flange						
	C	2"	—	2⅛"	291 psi	**40F265**
		2½"	—	2⅝"	269 psi	**40F266**
	C	3"	—	3⅛"	254 psi	**40F267**
	C	4"	—	4⅛"	235 psi	**40F268**
Drain Coupling						
	C x C	½"	—	⅝"	577 psi	**40F193**
	C x C	¾"	—	⅞"	466 psi	**40F185**
Drop Ear Tee						
	C x C x FNPT	½"	½"	⅝" x ⅝" x ½"	577 psi	**5GEX6**
	C x C x FNPT	¾"	¾"	⅞" x ⅞" x ¾"	466 psi	**5GEX7**
Drop Tee						
	C x C x C	½"	—	⅝"	577 psi	**40F234**

CONTINUED

CONTINUED

Lead-Free Cast Bronze Fittings

NIBCO

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
Fitting Union						
	C x FNPT	¼"	¼"	⅜"	729 psi	**40F247**
	C x FNPT	⅜"	⅜"	½"	623 psi	**40F248**
Reducing Adapter						
	C x FNPT	¾"	⅜"	⅞" x ½"	466 psi	**40F195**
Reducing Cross						
	C x C x C x C	½"	—	⅝"	577 psi	**40F251**
Reducing Male Adapter						
	C x MNPT	¾"	1¼"	⅞" x 1⅜"	466 psi	**40F197**
Reducing Tee (run x run x outlet)						
	C x C x FNPT	½"	⅜"	⅝" x ⅜" x ½"	577 psi	**40F236**
	C x FNPT x C	½"	½ x ⅛ x ½"	⅝" x ¼" x ⅜"	577 psi	**40F202**
	FNPT x FNPT x C	½"	¾" x ½"	⅞ x ⅜" x ⅜"	577 psi	**40F231**
	FNPT x FNPT x C	½"	¾"	⅞ x ⅛" x ⅜"	577 psi	**40F229**
	C x FNPT x C	½"	¾"	⅝" x ⅛" x ⅜"	577 psi	**40F244**
	C x C x FNPT	¾"	⅜"	⅞ x ⅛" x ½"	466 psi	**40F237**
	C x FNPT x C	¾"	½"	⅞ x ⅜" x ⅞"	466 psi	**40F245**
	FNPT x FNPT x C	¾"	¾" x ½"	⅞ x ⅜" x ⅞"	466 psi	**40F230**
	C x FNPT x C	1"	⅛"	1⅛" x ¼" x 1⅛"	395 psi	**40F203**
	C x FNPT x C	1"	½"	1⅛" x ⅜" x 1⅛"	395 psi	**40F246**
	C x C x C	1¼" x ½" x 1"	—	1⅜" x ⅜" x 1⅛"	391 psi	**40F233**
	C x C x FNPT	1¼"	¾"	1⅜" x 1⅜" x ⅞"	391 psi	**40F238**
	C x C x FNPT	1½"	¾"	1⅜" x 1⅜" x ⅞"	327 psi	**40F239**
	C x C x FNPT	2"	¾"	2⅛" x 2⅛" x ⅞"	291 psi	**40F241**
	C x C x FNPT	2"	1"	2⅛" x 2⅛" x 1⅛"	291 psi	**40F240**
Special Drop Adapter						
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5EFV6**
	C x FNPT	¾"	¾"	⅞" x ¾"	466 psi	**5EFV7**
Tee						
	C x C x FNPT	½"	¼"	⅜" x ⅜" x ¼"	577 psi	**5GEW7**
	C x C x FNPT	½"	½"	⅜" x ⅜" x ½"	577 psi	**5GEW6**
	C x C x MNPT	½"	½"	⅜"	577 psi	**40F242**
	C x FNPT x C	½"	½"	⅜"	577 psi	**40F243**
	C x C x FNPT	½"	¾"	⅜" x ⅜" x ⅞"	577 psi	**40F235**
	C x C x FNPT	¾"	½"	⅞" x ⅞" x ½"	466 psi	**5GEW9**
	C x C x FNPT	¾"	¾"	⅞" x ⅞" x ¾"	466 psi	**5GEW8**
	C x FNPT x C	¾"	¾"	⅞" x ¾" x ⅞"	466 psi	**5GEX8**
	FNPT x FNPT x C	¾"	¾"	⅞"	466 psi	**40F228**
	FNPT x MNPT x C	¾"	¾"	⅞"	466 psi	**40F232**
	C x C x FNPT	1"	½"	1⅛" x 1⅛" x ½"	395 psi	**5GEX2**
	C x C x FNPT	1"	¾"	1⅛" x 1⅛" x ¾"	395 psi	**5GEX1**
	C x FNPT x C	1"	¾"	1⅛" x ¾" x 1⅛"	395 psi	**5GEY0**
	C x C x FNPT	1"	1"	1⅛" x 1⅛" x 1"	395 psi	**5GEX0**
	C x FNPT x C	1"	1"	1⅛" x 1" x 1⅛"	395 psi	**5GEX9**
	C x C x FNPT	1¼"	½"	1⅜" x 1⅜" x ½"	351 psi	**5GEX4**
	C x C x FNPT	1¼"	1"	1⅜" x 1⅜" x 1"	351 psi	**5GEX3**
	C x C x FNPT	1½"	1"	1⅝" x 1⅝" x 1"	327 psi	**5GEX5**
Union						
	C x MNPT	¼"	¼"	⅜"	729 psi	**40F249**
	C x MNPT	⅜"	⅜"	½"	623 psi	**40F250**
	C x FNPT	½"	½"	⅝" x ½"	577 psi	**5GEY3**
	C x MNPT	½"	½"	⅝" x ½"	577 psi	**5GEY8**
	C x FNPT	¾"	¾"	⅞" x ¾"	466 psi	**5GEY4**
	C x MNPT	¾"	¾"	⅞" x ¾"	466 psi	**5GEY9**
	C x FNPT	1"	1"	1⅛" x 1"	395 psi	**5GEY5**
	C x C	1¼"	—	1⅜"	351 psi	**5GEY1**
	C x FNPT	1¼"	1¼"	1⅜" x 1¼"	351 psi	**5GEY6**
	C x MNPT	1¼"	1¼"	1⅜" x 1¼"	351 psi	**5GEZ1**
	C x C	1½"	—	1⅝"	327 psi	**5GEY2**
	C x FNPT	1½"	1½"	1⅝" x 1½"	327 psi	**5GEY7**
	C x MNPT	1½"	1½"	1⅝" x 1½"	327 psi	**5GEZ2**
	C x C	2"	—	2⅛"	291 psi	**40F184**
	C x MNPT	2"	2"	2⅛"	291 psi	**40F183**
	C x FNPT	2"	2"	2⅛"	291 psi	**40F186**
	C x C	2½"	—	2⅝"	269 psi	**40F189**
	C x MNPT	2½"	2½"	2⅝"	269 psi	**40F191**
	C x FNPT	2½"	2½"	2⅝"	269 psi	**40F192**
	C x C	3"	—	3⅛"	254 psi	**40F190**



Copper Press Tools and PEX Press Jaws

RIDGID

Use to securely join Type K, L, or M copper tubing, with no flames, solder, or flux. Designed for ½" to 4" applications, with interchangeable jaws and rings. For use with potable and chilled water, hydronic heating, compressed air, and air vacuum (29.2" Hg max. at 68°F).

Description	Press Tool Jaw/Pipe Capacity	Voltage	Battery Capacity	Crimping Force	Tool Length	Mfr. Model	Item No.
Compact Cordless Pressing Tool Kits							
Pistol Grip Tool	½" to 1¼"	12.0	2.5Ah	1.2 tons	13½"	RP-240	**426J87**
Pistol Grip Tool	½" to 1"	12.0	2.5Ah	1.2 tons	13½"	RP-240	**426J88**
In-Line Design	½" to 1¼"	12.0	2.5Ah	1.2 tons	15⅛"	RP-241	**426J89**
In-Line Design, ½", ¾", 1" Jaws	½" to 1"	12.0	2.5Ah	1.2 tons	15⅞"	RP-241	**426J90**

Description	For Pipe Size (in.)	Voltage	Amps AC	Ram Force (lb.)	Crimp Time (sec.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Cordless Pressing Tool Kit										
6 Jaw Kit	½ to 2	18	—	7200	5	16½	6½	25¾	43358	**22XH23**
Pressing Tool Kit										
6 Jaw Kit	½ to 2	120V AC or 230V AC	15	7200	5	16½	6½	25¾	43373	**22XH24**
Pressing Ring Kits, For Use With:										
22XH23 and 22XH24	2½ to 4	—	—	—	—	13½	12	12½	20483	**2TE27**
22XH23 and 22XH24	½ to 1¼	—	—	—	—	15½	11	3½	27423	**2GME8**
22XH23 and 22XH24	1½ to 2	—	—	—	—	15½	11	3½	27428	**2GME9**
Viega® MegaPress™ Jaws Kits										
Press Jaws for ½" to 1"	½ to 1	—	—	—	—	18	14	8	48558	**34TC11**
Press Jaws for ½" to 1"	½ to 2	—	—	—	—	18	14	8	48553	**34TC10**

Battery Included/Bare Tool	Press Tool Jaw/ Pipe Capacity	Voltage	Tool Length	Crimping Force	Approximate Cycle Time	Mfr. Model	Item No.
Compact Cordless Pressing Tool Kit, Short Throw							
Bare Tool	½" to 1¼"	12.0	16½"	0.5 tons	5.0 sec.	56638	**54HT34**

Description	For Use With	Voltage	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Batteries and Charger							
Li-Ion 18V Rechargeable Battery	Nos. 22XH23, 4FRA1, 39C415, 4PCE3, 6DNY1, 6PFD9, 6PFE2, 4NCV2, 6PFE1, 13C593, 20KY52, and 2YCA4	18	5½	4	5¼	44693	**22XH25**
Advanced 4.0 Li Ion Battery		18	5½	4	5¼	44698	**22XH26**
Advanced Li Ion Battery Charger		18	10¼	6¼	10¼	43458	**22XH27**
Li-Ion Battery	PEX-One Tools	12.0	—	—	—	55183	**54HT32**
Battery Charger, 150+ Crimps Off A Single Charge		—	—	—	—	55193	**54HT33**

Description	For Pipe Size (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Press Tool Accessories						
Press Tool Pipe Cutter Attachment	1 ½ to 4	9	17	3	34403R	**5KAY4**
Press Tool Carrying Case	—	9¾	17¼	6	34678	**5KAY5**
Compact MegaPress® Jaw	½	1 3/32	4½	5 13/64	48433	**453D73**
Compact MegaPress® Jaw	¾	5		2	48438	**453D74**
X-LC MegaPress® Booster	—	20	14	4	60658	**453D75**
X-LC MegaPress® Jaw	2½	8¼	2¾	9½	60643	**453D76**
X-LC MegaPress® Jaw	3	8¼	2¾	9½	60648	**453D77**
X-LC MegaPress® Jaw	4	8¼	2¾	9½	60653	**453D78**
X-LC MegaPress® Jaw Kit	2½ to 4	27	17	8⅛	60638	**453D79**

For Pipe Size (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Compact Item No.	Standard Item No.
PEX Press Jaws						
½	4	6	1½	17008	**10E717**	—
½	6	6½	3½	22653	—	**10E720**
¾	6	4	1	17013	**10E718**	—
¾	7	7½	2	22663	—	**10E721**
1	6	4	1	17018	**10E719**	—
1	7	7½	2¼	22668	—	**10E722**
1¼	7	7½	2¼	22673	—	**10E723**
1½	7	7½	2¼	22678	—	**10E724**

Compact Cordless Pressing Tool Kits—Compact and lightweight for tight spaces and overhead work, these press tools feature Bluetooth® connectivity to manage information such as battery life and cycle count. The handy LED light is ideal for low light conditions and the battery can provide up to 140 crimps per charge. The included carrying case eases transport to and from the jobsite.

Cordless Pressing Tool Kit—Portable tool has a rotating barrel that swivels 270° for reaching tight spaces. Lightweight kit includes press tool, 2 batteries, charger, and case.

Pressing Tool Kit—Alerts user when recalibration is needed, and a shutoff switch disables the tool if jaw pin is not locked into place. Rotating barrel swivels 270° to help reach into tight spaces. Includes ½", ¾", 1", 1¼", 1½" and 2" jaws and carrying case.

Pressing Ring Kits—Use with battery-powered or corded pressing tools to connect copper tubing in tight spaces; a swivel actuator allows the tool to be oriented ±90° to the tubing.

Viega® MegaPress™ Jaws Kits—Nos. 34TC11 and 34TC10 include ½" to 1" press jaws and a carrying case, No. 34TC10 adds 1¼ " to 2" press rings and actuator.

Compact Cordless Pressing Tool, Short Throw—Lightweight and low-profile tool is ideal for working in tight and hard-to-reach spaces. Model allows one-handed operation that leaves your second hand free to support and guide the connection. Handy LED light allows use in low light conditions.

Press Tool Accessories—Press Tool Pipe Cutter Attachment No. 5KAY4 eases cutting of cast-iron soil pipe. Simply connect unit to press tool, wrap chain around the pipe, and press. No ratcheting or additional tools required. Compatible with all Ridgid standard press tools.

PEX Press Jaws—Designed for use with Viega® system fittings. Compact jaws are ⅓ smaller than Standard models and are for use in tight spaces.

Copper Viega ProPress® Fittings

- Max. pressure: 200 psi; tested to 600 psi
- Temp. range: 0° to 250°F

ProPress® offers a quick, flameless, environmentally friendly way to join standard K, L, or M copper tubing with Viega Smart Connect® feature, and to identify unpressed fittings. No flux, solder, or gas required. Use with copper press tools, sold separately on page 2800. For compliance and standards information, go to Grainger.com®.

Description	Tube Size	Material of Construc.	Pressure (psi)	Temp. Range	Item No.
Gaskets					
	½"	Viton	200	0 to 284° F	**10N770**
	¾"	Viton	200	0 to 284° F	**10N768**
	1"	Viton	200	0 to 284° F	**10N769**
	1¼"	Viton	200	0 to 284° F	**10N773**
	1½"	Viton	200	0 to 284° F	**10N772**
	2"	Viton	200	0 to 284° F	**10N771**

Description	Tube Size	Item No.
45° Elbow		
Press x Press		
	½" x ½"	**1RPL4**
	¾" x ¾"	**48RH43**
	1" x 1"	**48RH44**
	1¼" x 1¼"	**48RH45**
	1½" x 1½"	**48RH46**
	2" x 2"	**48RH47**
Press x Street		
	½" x ½"	**1RPN4**
	¾" x ¾"	**48RH48**
	1" x 1"	**48RH49**
	1¼" x 1¼"	**48RH50**
	1½" x 1½"	**48RH51**
	2" x 2"	**48RH52**
90° Elbow		
Press x Press		
	½" x ½"	**1RPJ4**
	¾" x ¾"	**48RH53**
	1" x 1"	**48RH54**
	1¼" x 1¼"	**48RH55**
	1½" x 1½"	**48RH56**
	2" x 2"	**48RH57**
Press x Street		
	½" x ½"	**1RPK4**
	¾" x ¾"	**48RH58**
	1" x 1"	**48RH59**
	1¼" x 1¼"	**48RH60**
	1½" x 1½"	**48RH61**
	2" x 2"	**48RH62**
Cap		
Press		
	½"	**1RPE9**
	¾"	**1RPF1**
	1"	**1RPF2**
	1¼"	**1RPF3**
	1½"	**1RPF4**
	2"	**1RPF5**

Description	Tube Size	Item No.
Coupling No Stop		
Press x Press		
	½" x ½"	**1RPG9**
	¾" x ¾"	**1RPH1**
	1" x 1"	**1RPH2**
	1¼" x 1¼"	**1RPH3**
	1½" x 1½"	**1RPH4**
	2" x 2"	**1RPH5**
Coupling with stop		
Press x Press		
	½" x ½"	**1RPF9**
	¾" x ¾"	**1RPG1**
	1" x 1"	**1RPG2**
	1¼" x 1¼"	**1RPG3**
	1½" x 1½"	**1RPG4**
	2" x 2"	**1RPG5**
Cross-over		
Press x Press		
	½" x ½"	**1RPH9**
	¾" x ¾"	**1RPJ1**
Elbow Stub Out w/Strap		
FTG		
	½"	**4RCH7**
Extended Coupling No Stop		
Press x Press		
	½" x ½"	**5ULX2**
	¾" x ¾"	**5ULX3**
	1" x 1"	**5ULX4**
	1¼" x 1¼"	**5ULX5**
	1½" x 1½"	**5ULX6**
	2" x 2"	**5ULX7**
Reducer		
Press x Press		
	¾" x ½"	**1RPV1**
	1" x ½"	**1RPV2**
	1" x ¾"	**1RPV3**
	1¼" x ¾"	**1RPV4**
	1¼" x 1"	**1RPV5**
	1½" x ¾"	**1RPV6**
	1½" x 1¼"	**1RPV8**
	2" x ¾"	**1RPV9**
	2" x 1"	**1RPW1**
	2" x 1¼"	**1RPW2**
	2" x 1½"	**1RPW3**
	1½" x 1"	**1RPV7**

Description	Tube Size	Item No.
Street x Press		
	¾" x ½"	**1RPW4**
	1" x ½"	**1RPW5**
	1" x ¾"	**1RPW6**
	1¼" x ½"	**1RPW7**
	1¼" x ¾"	**1RPW8**
	1¼" x 1"	**1RPW9**
	1½" x ¾"	**1RPX2**
	1½" x 1"	**1RPX3**
	1½" x 1¼"	**1RPX4**
	2" x 1"	**1RPX7**
	2" x 1¼"	**1RPX8**
	2" x 1½"	**1RPX9**
Tee (run x run x outlet)		
Press x Press x Press		
	¾" x ¾" x ½"	**1RRA1**
	¾" x ¾" x ¾"	**1RPZ7**
	¾" x ¾" x 1"	**1RRA2**
	1" x 1" x 1"	**1RRA3**
	1" x ½" x ¾"	**1RRA4**
	1" x ½" x 1"	**1RRA5**
	1" x ¾" x ½"	**1RRA6**
	1" x ¾" x ¾"	**1RRA7**
	1" x ¾" x 1"	**1RRA8**
	1" x 1" x ½"	**1RRA9**
	1" x 1" x ¾"	**1RRB1**
	1" x 1" x 1¼"	**1RRB2**
	1¼" x ¾" x ¾"	**10N759**
	1¼" x ¾" x 1"	**10N758**
	1¼" x ¾" x 1¼"	**10N756**
	1¼" x 1" x ½"	**10N760**
	1¼" x 1" x ¾"	**1RRB4**
	1¼" x 1" x 1"	**1RRB5**
	1¼" x 1¼" x ½"	**1RRB6**
	1¼" x 1¼" x ¾"	**1RRB7**
	1¼" x 1¼" x 1"	**1RRB8**
	1¼" x 1¼" x 1¼"	**1RRB3**
	1½" x 1½" x 1½"	**1RRB9**
	1½" x 1" x 1"	**1RRC4**
	1½" x 1" x 1½"	**1RRC5**
	1½" x 1¼" x 1"	**1RRC6**
	1½" x 1¼" x 1¼"	**1RRC7**
	1½" x 1½" x ½"	**1RRC8**
	1½" x 1½" x ¾"	**1RRC9**
	1½" x 1½" x 1"	**1RRD1**
	1½" x 1½" x 1¼"	**1RRD2**
	2" x 2" x 2"	**1RRD3**
	2" x 1¼" x 1¼"	**1RRD7**
	2" x 1½" x ¾"	**1RRD8**
	2" x 1½" x 1"	**1RRD9**
	2" x 1½" x 1¼"	**1RRE1**
	2" x 1½" x 1½"	**1RRE2**
	2" x 1½" x 2"	**1RRE3**
	2" x 2" x ½"	**1RRE4**
	2" x 2" x ¾"	**1RRE5**
	2" x 2" x 1"	**1RRE6**
	2" x 2" x 1¼"	**1RRE7**
	2" x 2" x 1½"	**1RRE8**

Need to Find Easy-to-Install Press Connection Ball and Check Valves?

See our selection of Apollo XPRESS® Ball Valves, Viega ProPress® Ball Valves, and Viega ProPress® Check Valves on page 2862, or go to Grainger.com® and search for "press ball valves" or "press check valves".



No. 36N581



No. 20XW46



No. 5ULX8

Zero Lead Bronze Viega ProPress® Fittings

viega

- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Create a strong, reliable, and watertight seal in seconds. Viega ProPress® system allows joining of wet connections. Meet CRN, CSA, FM, IAPMO, ICC, NFPA 13, 13D and 13R, NSF/ANSI 61, NSF/ANSI 372, PHCC, and UL Listed.

Description	Tube Size	Item No.
Unions, Press x Press		
	½" x ½"	5ULZ0
	¾" x ¾"	5ULZ1
	1" x 1"	5ULZ2
	1¼" x 1¼"	5ULZ3
	1½" x 1½"	5ULZ4
	2" x 2"	5ULZ5
Unions, Press x Female Pipe Thread		
	½" x ½"	5UMK1
	¾" x ¾"	5UMK2
	1" x 1"	5UMK3
	1¼" x 1¼"	5UMK4
	1½" x 1½"	5UMK5
	2" x 2"	5UMK6
Unions, Press x Male Pipe Thread		
	½" x ½"	5UMK7
	¾" x ¾"	5UMK8
	1" x 1"	5UMK9
	3-33/54" x 1¼" x 1¼"	5UML0
	1½" x 1½"	5UML1
	2" x 2"	5UML2

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
90° Elbows, Press x Female Pipe Thread			
	½" x ⅜"	½" x ⅜"	5UMH1
	½" x ½"	½" x ½"	5UMH2
	½" x ¾"	½" x ¾"	5UMH3
	¾" x ¾"	¾" x ¾"	5UMH5
	1" x ½"	1" x ½"	5UMH6
	1" x 1"	1" x 1"	5UMH7
	1¼" x 1¼"	1¼" x 1¼"	5UMH8
	1½" x 1½"	1½" x 1½"	5UMH9
	2" x 2"	2" x 2"	5UMJ0
90° High Ear Drop Elbow, w/ Wall Plate, Press x Female Pipe Thread			
	½" x ½"	½" x ½"	5UMA5
90° Drop Elbow, w/ Wall Plate, Press x Female Pipe Thread			
	½" x ½"	½" x ½"	5UMA3
	¾" x ¾"	¾" x ¾"	20C419
Adapter, Street x Female Pipe Thread			
	½" x ⅜"	½" x ⅜"	5UMG0
	½" x ½"	½" x ½"	5UMG1
	½" x ¾"	½" x ¾"	5UMG2
	¾" x ½"	¾" x ½"	5UMG3
	¾" x ¾"	¾" x ¾"	5UMG4
	1" x 1"	1" x 1"	5UMG5
	1" x ½"	1" x ½"	5UMG6
	1¼" x ½"	1¼" x ½"	5UMG7
	1¼" x 1¼"	1¼" x 1¼"	5UMG8
	1½" x 1½"	1½" x 1½"	5UMG9

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Adapter Flanges, Press x Flange			
	1"	1"	5UMJ7
	1¼"	1¼"	5UMJ8
	1½"	1½"	5UMJ9
	2"	2" - 4	5UMK0
Adapters, Press x Female Pipe Thread			
	½" x ⅜"	½" x ⅜"	5UMD3
	½" x ½"	½" x ½"	5UMD4
	½" x ¾"	½" x ¾"	5UMD5
	¾" x ½"	¾" x ½"	5UMD6
	¾" x ¾"	¾" x ¾"	5UMD7
	1" x ½"	1" x ½"	5UMD8
	1" x ¾"	1" x ¾"	5UMD9
	1" x 1¼"	1" x 1¼"	5UME1
	1¼" x ½"	1¼" x ½"	5UME2
	1¼" x 1"	1¼" x 1"	5UME3
	1¼" x 1¼"	1¼" x 1¼"	5UME4
	1¼" x 1½"	1¼" x 1½"	5UME5
	1½"	1¼"	5UME6
	1½" x 1½"	1½" x 1½"	5UME7
	2" x 2"	2" x 2"	5UME9
Adapters, Press x Male Pipe Thread			
	½" x ⅜"	½" x ⅜"	5UMA6
	½" x ½"	½" x ½"	5UMA7
	½" x ¾"	½" x ¾"	5UMA8
	¾" x ½"	¾" x ½"	5UMA9
	¾" x ¾"	¾" x ¾"	5UMC0
	¾" x 1"	¾" x 1"	5UMC1
	1" x ¾"	1" x ¾"	5UMC2
	1" x 1"	1" x 1"	5UMC3
	1" x 1¼"	1" x 1¼"	5UMC4
	1¼" x 1"	1¼" x 1"	5UMC5
	1¼" x 1¼"	1¼" x 1¼"	5UMC6
	1¼" x 1½"	1¼" x 1½"	5UMC7
	1½" x 1¼"	1½" x 1¼"	5UMC8
	1½" x 1½"	1½" x 1½"	5UMC9
	2" x 1½"	2" x 1½"	5UMD1
	2" x 2"	2" x 2"	5UMD2
Adapters, Street x Male Pipe Thread			
	½" x ⅜"	½" x ⅜"	5UMF0
	½" x ½"	½" x ½"	5UMF1
	½" x ¾"	½" x ¾"	5UMF2
	¾" x ½"	¾" x ½"	5UMF3
	¾" x ¾"	¾" x ¾"	5UMF4
	1" x ¾"	1" x ¾"	5UMF5
	1" x 1"	1" x 1"	5UMF6
	1¼" x 1¼"	1¼" x 1¼"	5UMF7
	1½" x 1½"	1½" x 1½"	5UMF8
	2" x 2"	2" x 2"	5UMF9

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Di-electric Unions, Press x Female Pipe Thread			
	¾" x ¾"	¾" x ¾"	5ULZ7
	1" x 1"	1" x 1"	5ULZ8
	1¼" x 1¼"	1¼" x 1¼"	5ULZ9
	1½" x 1½"	1½" x 1½"	5UMA0
	2" x 2"	2" x 2"	5UMA1
Reducers, Street x Press			
	1½" x ½"	1½" x ½"	5UMP1
	2" x ½"	2" x ½"	5UMP2
	2" x ¾"	2" x ¾"	5UMP3
Tailpiece, Press x Female Union			
	1" x 1"	1" x 1"	5UMN3
Tees, Press x Press x Female Pipe Thread (run x run x outlet)			
	¾" x ¾" x ½"	¾" x ¾" x ½"	20C420
	1¼" x 1¼" x ½"	1¼" x 1¼" x ½"	5UML5
	1¼" x 1¼" x ¾"	1¼" x 1¼" x ¾"	5UML6
	1½" x 1½" x ¾"	1½" x 1½" x ¾"	5UML8
Vent Elbows, Press x Press x Female Pipe Thread			
	½" x ½" x ⅛"	½" x ½" x ⅛"	5UME8
	¾" x ¾" x ⅛"	¾" x ¾" x ⅛"	5UMJ5

viega

Viega ProPress® Copper XL Press Fittings

- Max. pressure: 200 psi; tested to 600 psi
- Temp. range: 0° to 250°F

Offer a quick, flameless, environmentally friendly way to join K, L, or M copper tubing, without flux, solder, or gas. Must be installed with Viega ProPress XL-C rings (Pressing Ring Kit No. 2TE27 sold separately on page 2800). For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Tube Size	Pipe Fitting Connection Type	Item No.
45° Elbow			
	2½" x 2½"	Press x Press	1RPN1
	3" x 3"	Press x Press	1RPN2
	4" x 4"	Press x Press	1RPN3
45° Street Elbow			
	2½" x 2½"	Press x Street	1RPP1
	3" x 3"	Press x Street	1RPP2
	4" x 4"	Press x Street	1RPP3
90° Elbow			
	2½" x 2½"	Press x Press	1RPK1
	3" x 3"	Press x Press	1RPK2
	4" x 4"	Press x Press	1RPK3
90° Extended Street Elbow			
	¾" x ¾", 6"	Press x Street	4RCK5
90° Street Elbow			
	2½" x 2½"	Press x Street	1RPL1
	3" x 3"	Press x Street	1RPL2
	4" x 4"	Press x Street	1RPL3
Adapter			
	2½" x 2½"	Press x FPT	4RCJ9
	3" x 3"	Press x FPT	4RCK1
	4" x 4"	Press x FPT	4RCK2
	2½" x 2½"	Press x MPT	1RPA5
	3" x 3"	Press x MPT	1RPA6
	4" x 4"	Press x MPT	1RPA7

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Adapter Flange			
	2½"	Press x Flange	1WNY8
	3"	Press x Flange	1WNY9
	4" - 8	Press x Flange	1WNZ1
Cap			
	2½"	Press	1RPF6
	3"	Press	1RPF7
	4"	Press	1RPF8
Coupling No Stop			
	2½" x 2½"	Press x Press	1RPH6
	3" x 3"	Press x Press	1RPH7
	4" x 4"	Press x Press	1RPH8
Coupling with Stop			
	2½" x 2½"	Press x Press	1RPG6
	3" x 3"	Press x Press	1RPG7
	4" x 4"	Press x Press	1RPG8
Reducer			
	2½" x 1"	Press x Press	31EJ62
	2½" x 1¼"	Press x Press	31EJ63
	2½" x 2"	Press x Press	31EJ64
	3" x 1½"	Press x Press	31EJ65
	4" x 2"	Press x Press	31EJ66
	4" x 2½"	Press x Press	31EJ67
	2½" x 1"	Street x Press	4RCJ6
	2½" x 1¼"	Street x Press	4RCJ7
	2½" x 1½"	Street x Press	1RPY1
	2½" x 2"	Street x Press	1RPY2
	3" x 1¼"	Street x Press	4RCJ8
	3" x 1½"	Street x Press	1RPY3
	3" x 2"	Street x Press	1RPY4
	3" x 2½"	Street x Press	1RPY5
	4" x 2"	Street x Press	1RPY6
	4" x 2½"	Street x Press	1RPY7
	4" x 3"	Street x Press	1RPY8

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Tee (run x run x outlet)			
	2½" x 2½" x ¾"	Press x Press x FPT	1WNV1
	2½" x 2½" x 2"	Press x Press x FPT	1WNV2
	3" x 3" x ¾"	Press x Press x FPT	1WNV3
	3" x 3" x 2"	Press x Press x FPT	1WNV4
	4" x 4" x ¾"	Press x Press x FPT	1WNV5
	4" x 4" x 2"	Press x Press x FPT	1WNV6
	2½" x ¾" x 2½"	Press x Press x Press	31EJ71
	2½" x 1" x 2½"	Press x Press x Press	31EJ68
	2½" x 1¼" x 2½"	Press x Press x Press	31EJ70
	2½" x 1½" x 2½"	Press x Press x Press	31EJ69
	2½" x 2" x ¾"	Press x Press x Press	4RCJ1
	2½" x 2" x 1"	Press x Press x Press	4RCJ2
	2½" x 2" x 1½"	Press x Press x Press	1RRF1
	2½" x 2" x 2"	Press x Press x Press	1RRF2
	2½" x 2" x 2½"	Press x Press x Press	4RCJ3
	2½" x 2½" x ½"	Press x Press x Press	1RRF3
	2½" x 2½" x ¾"	Press x Press x Press	1RRF4
	2½" x 2½" x 1"	Press x Press x Press	1RRF5
	2½" x 2½" x 1¼"	Press x Press x Press	1RRF6
	2½" x 2½" x 1½"	Press x Press x Press	1RRF7
	2½" x 2½" x 2"	Press x Press x Press	1RRF8
	2½" x 2½" x 2½"	Press x Press x Press	1RRE9
	3" x ¾" x 3"	Press x Press x Press	31EJ81
	3" x 1" x 3"	Press x Press x Press	31EJ72
	3" x 1¼" x 3"	Press x Press x Press	31EJ74
	3" x 1½" x 3"	Press x Press x Press	31EJ73
	3" x 2" x 2"	Press x Press x Press	31EJ75
	3" x 2" x 2½"	Press x Press x Press	31EJ76
	3" x 2" x 3"	Press x Press x Press	31EJ77
	3" x 2½" x 2"	Press x Press x Press	31EJ78
	3" x 2½" x 2½"	Press x Press x Press	31EJ79
	3" x 2½" x 3"	Press x Press x Press	31EJ80
	3" x 3" x ¾"	Press x Press x Press	1RRG1
	3" x 3" x 1"	Press x Press x Press	1RRG2
	3" x 3" x 1¼"	Press x Press x Press	1WNR8
	3" x 3" x 1½"	Press x Press x Press	1WNR9
	3" x 3" x 2"	Press x Press x Press	1WNT1
	3" x 3" x 2½"	Press x Press x Press	1WNT2
	3" x 3" x 3"	Press x Press x Press	1RRF9
	4" x 3" x 2"	Press x Press x Press	31EJ82
	4" x 3" x 3"	Press x Press x Press	31EJ83
	4" x 4" x ½"	Press x Press x Press	31EJ84
	4" x 4" x ¾"	Press x Press x Press	31EJ85
	4" x 4" x 1"	Press x Press x Press	4RCJ4
	4" x 4" x 1¼"	Press x Press x Press	4RCJ5
	4" x 4" x 1½"	Press x Press x Press	1WNT4
	4" x 4" x 2"	Press x Press x Press	1WNT5
	4" x 4" x 2½"	Press x Press x Press	1WNT6
	4" x 4" x 3"	Press x Press x Press	1WNT7
	4" x 4" x 4"	Press x Press x Press	1WNT3

Viega ProPress® Stainless Steel Fittings

viega

- Max. pressure: 200 psi
- Max. temp.: 250°F

Feature the Smart Connect® design that allows identification of unpressed connections and allows you to create a gas and liquid-tight seal.

Meet ABS: America Bureau of Shipping, CRN 13492.5 A/B/C, ULC/ORD 213: Underwriters Laboratories (½"to 2"), UL 852, ULC/ORD C199S.

Note: Connections are only designed for use with Viega ProPress® for stainless steel pipe.

Description	Tube Size	Pipe Fitting Connection Type	Item No.
45° Elbow			
	½" x ½"	Press x Press	45CF39
	¾" x ¾"	Press x Press	45CF43
	1" x 1"	Press x Press	45CF45
90° Elbow			
	½" x ½"	Press x Press	45CF51
	¾" x ¾"	Press x Press	45CF57
	1" x 1"	Press x Press	45CF41
Adapter			
	½" x ½"	Press x Female Pipe Thread	45CF35
	½" x ½"	Press x Male Pipe Thread	45CF47
	¾" x ¾"	Press x Female Pipe Thread	45CF60
	¾" x ¾"	Press x Male Pipe Thread	45CF48
	1" x 1"	Press x Female Pipe Thread	45CF53
	1" x 1"	Press x Male Pipe Thread	45CF33
Cap			
	½"	Press	45CF52
	¾"	Press	45CF61
	1"	Press	45CF40
	2"	Press	53UC27
	2½"	Press	53UC15
	3"	Press	53UC16
	4"	Press	53UC17

** No stop.*

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Coupling w/Stop			
	½" x ½"	Press x Press	45CF37 *
	½" x ½"	Press x Press	45CF58
	¾" x ¾"	Press x Press	45CF44 *
	¾" x ¾"	Press x Press	45CF49
	1" x 1"	Press x Press	45CF56 *
	1" x 1"	Press x Press	45CF55
	1¼" x 1¼"	Press x Press	53UC11
	1½" x 1½"	Press x Press	53UC12
	2" x 2"	Press x Press	53UC13
	4" x 4"	Press x Press	53UC14
Reducer			
	¾" x ½"	Street x Press	45CF54
	1" x ½"	Street x Press	45CF36
	1" x ¾"	Street x Press	45CF34
	1½" x 1"	Street x Press	53UC07
	2" x ½"	Street x Press	53UC08
	2" x ¾"	Street x Press	53UC09
	2" x 1"	Street x Press	53UC10
Tee (run x run x outlet)			
	½" x ½" x ½"	Press x Press x Press	45CF46
	¾" x ¾" x ¾"	Press x Press x Press	45CF50
	1" x 1" x 1"	Press x Press x Press	45CF62
	1" x 1" x ½"	Press x Press x Press	53UC21
	1½" x 1½" x 1"	Press x Press x Press	53UC22
	2" x 2" x 2"	Press x Press x Press	53UC20
	2" x 2" x ¾"	Press x Press x Press	53UC23
	2" x 2" x 1"	Press x Press x Press	53UC24
	4" x 4" x 1½"	Press x Press x Press	53UC25
Union			
	½" x ½"	Press x Press	45CF38
	¾" x ¾"	Press x Press	45CF59
	1" x 1"	Press x Press	45CF42
	1¼" x 1¼"	Press x Press	53UC26

Viega MegaPress® Stainless Steel Fittings

viega

- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Provide clean, flameless connections that can withstand high temperatures, pressures, and corrosive cleaning materials. System allows you to make secure, consistent connections without diminishing the pipe wall by threading. Suitable for use from potable water in commercial projects to corrosive chemicals in industrial applications. Meet ASTM A312/A403, IAPMO, ICC, NSF/ANSI 372, and TSSA/ASME B31.1/B31.3/B31.9.

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
45° Elbow				
	½" x ½"	Press x Press	53TZ88	53UA81
	¾" x ¾"	Press x Press	53TZ89	53UA82
	1" x 1"	Press x Press	53TZ90	53UA83
	1½" x 1½"	Press x Press	53TZ91	53UA84
	2" x 2"	Press x Press	53TZ92	53UA85
45° Street Elbow				
	½" x ½"	Press x Street	53TZ93	53UA86
	¾" x ¾"	Press x Street	53TZ94	53UA87
	1" x 1"	Press x Street	53TZ95	53UA88
	1½" x 1½"	Press x Street	53TZ96	53UA89
	2" x 2"	Press x Street	53TZ97	53UA90
90° Elbow				
	½" x ½"	Press x Press	53TZ53	53UA46
	¾" x ¾"	Press x Press	53TZ54	53UA47
	1" x 1"	Press x Press	53TZ55	53UA48
	1½" x 1½"	Press x Press	53TZ56	53UA49
	2" x 2"	Press x Press	53TZ57	53UA50
90° Street Elbow				
	½" x ½"	Press x Street	53TZ58	53UA51
	¾" x ¾"	Press x Street	53TZ59	53UA52
	1" x 1"	Press x Street	53TZ60	53UA53
	1½" x 1½"	Press x Street	53TZ61	53UA54
	2" x 2"	Press x Street	53TZ62	53UA55
Adapter				
	½" x ½"	Press x FPT	53TZ27	53UA20
	¾" x ¾"	Press x FPT	53TZ28	53UA21
	1" x 1"	Press x FPT	53TZ29	53UA22
	1½" x 1½"	Press x FPT	53TZ30	53UA23
	2" x 2"	Press x FPT	53TZ31	53UA24
	½" x ½"	Press x MPT	—	53UA14
	¾" x ½"	Press x MPT	—	53UA15
	¾" x ¾"	Press x MPT	—	53UA16
	1" x 1"	Press x MPT	—	53UA17
	1½" x 1½"	Press x MPT	—	53UA18
	2" x 2"	Press x MPT	53TZ26	53UA19
Cap				
	½"	Press	53TZ98	53UA91
	¾"	Press	53TZ99	53UA92
	1"	Press	53UA01	53UA93
	1½"	Press	53UA02	53UA94
	2"	Press	53UA03	53UA95

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Coupling No Stop				
	½" x ½"	Press x Press	53TZ48	53UA41
	¾" x ¾"	Press x Press	53TZ49	53UA42
	1" x 1"	Press x Press	53TZ50	53UA43
	1½" x 1½"	Press x Press	53TZ51	53UA44
	2" x 2"	Press x Press	53TZ52	53UA45
Coupling With Stop				
	½" x ½"	Press x Press	53TZ32	53UA25
	¾" x ¾"	Press x Press	53TZ33	53UA26
	1" x 1"	Press x Press	53TZ34	53UA27
	1½" x 1½"	Press x Press	53TZ35	53UA28
	2" x 2"	Press x Press	53TZ36	53UA29
Flange				
	½"	Press	53UA04	53UA96
	¾"	Press	53UA05	53UA97
	1"	Press	53UA06	53UA98
	1½"	Press	53UA07	53UA99
	2"	Press	53UA08	53UC01
Reducer				
	¾" x ½"	Press x Press	53TZ44	53UA37
	1" x ¾"	Press x Press	53TZ45	53UA38
	1½" x 1"	Press x Press	53TZ46	53UA39
	2" x 1½"	Press x Press	53TZ47	53UA40
	¾" x ½"	Press x Street	53TZ37	53UA30
	1" x ½"	Press x Street	53TZ38	53UA31
	1" x ¾"	Press x Street	53TZ39	53UA32
	1½" x ¾"	Press x Street	53TZ40	53UA33
	1½" x 1"	Press x Street	53TZ41	53UA34
	2" x 1"	Press x Street	53TZ42	53UA35
	2" x 1½"	Press x Street	53TZ43	53UA36
Tee (run x run x outlet)				
	¾" x ¾" x ½"	Press x Press x FPT	53TZ63	53UA56
	¾" x ¾" x ¾"	Press x Press x FPT	53TZ64	53UA57
	1" x 1" x ½"	Press x Press x FPT	53TZ65	53UA58
	1" x 1" x ¾"	Press x Press x FPT	53TZ66	53UA59
	1½" x 1½" x ½"	Press x Press x FPT	53TZ67	53UA60
	1½" x 1½" x ¾"	Press x Press x FPT	53TZ68	53UA61
	1½" x 1½" x 1"	Press x Press x FPT	53TZ69	53UA62
	2" x 2" x ½"	Press x Press x FPT	53TZ70	53UA63
	2" x 2" x ¾"	Press x Press x FPT	53TZ71	53UA64
	2" x 2" x 1"	Press x Press x FPT	53TZ72	53UA65
	½" x ½" x ½"	Press x Press x Press	53TZ73	53UA66
	¾" x ¾" x ½"	Press x Press x Press	53TZ78	53UA71
	¾" x ¾" x ¾"	Press x Press x Press	53TZ74	53UA67
	1" x 1" x ½"	Press x Press x Press	53TZ79	53UA72
	1" x 1" x ¾"	Press x Press x Press	53TZ80	53UA73
	1" x 1" x 1"	Press x Press x Press	53TZ75	53UA68
	1½" x 1½" x ½"	Press x Press x Press	53TZ81	53UA74
	1½" x 1½" x ¾"	Press x Press x Press	53TZ82	53UA75
	1½" x 1½" x 1"	Press x Press x Press	53TZ83	53UA76
	1½" x 1½" x 1½"	Press x Press x Press	53TZ76	—
	1½" x 1½"x 1½"	Press x Press x Press	—	53UA69
	2" x 2" x ½"	Press x Press x Press	53TZ84	53UA77
	2" x 2" x ¾"	Press x Press x Press	53TZ85	53UA78
	2" x 2" x 1"	Press x Press x Press	53TZ86	53UA79
	2" x 2" x 1½"	Press x Press x Press	53TZ87	53UA80
	2" x 2" x 2"	Press x Press x Press	53TZ77	53UA70
Union				
	½" x ½"	Press x Press	53UA09	53UC02
	¾" x ¾"	Press x Press	53UA10	53UC03
	1" x 1"	Press x Press	53UA11	53UC04
	1½" x 1½"	Press x Press	53UA12	53UC05
	2" x 2"	Press x Press	53UA13	53UC06

Viega MegaPress®G Carbon Steel Press Fittings

viega

- Max. pressure: 125 psi
- Temp. range: -40° to 180°F

Install fittings without completely shutting down the system and reduce installation time by up to 60% with no threading or cutting oils. Fittings include the Viega Smart Connect® feature and a durable hydrogenated nitrile butadiene rubber (HNBR) seal that resists chemicals, heat, and oil. Can be installed with ASTM A53 Schedule 5 to Schedule 40 black iron pipe. Suitable for use in compressed air, and in fuel oil and natural gas applications. Meet ANSI LC4/CSA 6.32, IAPMO, ICC, IFGC, NFPA 54 and 58.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
45° Elbow			
	½" x ½"	P x P	36N787
	¾" x ¾"	P x P	36N788
	1" x 1"	P x P	36N789
	1¼" x 1¼"	P x P	36N790
	1½" x 1½"	P x P	36N791
	2" x 2"	P x P	36N792
90° Elbow			
	½" x ½"	P x P	36N781
	¾" x ¾"	P x P	36N782
	1" x 1"	P x P	36N783
	1¼" x 1¼"	P x P	36N784
	1½" x 1½"	P x P	36N785
	2" x 2"	P x P	36N786

**P = Press*

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Adapter			
	½" x ½"	P x FPT	36N775
	¾" x ½"	P x FPT	36N819
	¾" x ¾"	P x FPT	36N776
	1" x ½"	P x FPT	31XK08
	1" x ¾"	P x FPT	36N820
	1" x 1"	P x FPT	36N777
	1¼" x ½"	P x FPT	31XK09
	1¼" x ¾"	P x FPT	31XK10
	1¼" x 1"	P x FPT	36N821
	1¼" x 1¼"	P x FPT	36N778
	1½" x ½"	P x FPT	31XK11
	1½" x ¾"	P x FPT	31XK12
	1½" x 1"	P x FPT	31XK13
	1½" x 1¼"	P x FPT	36N822
	1½" x 1½"	P x FPT	36N779
	2" x 1½"	P x FPT	36N823
	2" x 2"	P x FPT	36N780
	½" x ½"	P x MPT	36N769
	¾" x ¾"	P x MPT	36N770
	1" x 1"	P x MPT	36N771
	1¼" x 1¼"	P x MPT	36N772
	1½" x 1½"	P x MPT	36N773
	2" x 2"	P x MPT	36N774
Coupling No Stop			
	½" x ½"	P x P	36N763
	¾" x ¾"	P x P	36N764
	1" x 1"	P x P	36N765
	1¼" x 1¼"	P x P	36N766
	1½" x 1½"	P x P	36N767
	2" x 2"	P x P	36N768
Coupling With Stop			
	½" x ½"	P x P	36N758
	¾" x ¾"	P x P	36N757
	1" x 1"	P x P	36N759
	1¼" x 1¼"	P x P	36N760
	1½" x 1½"	P x P	36N761
	2" x 2"	P x P	36N762

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Reducer			
	¾" x ½"	Street x P	36N830
	1" x ½"	Street x P	36N831
	1" x ¾"	Street x P	36N832
	1¼" x 1"	Street x P	36N833
	1½" x ¾"	Street x P	36N834
	1½" x 1"	Street x P	36N836
	1½" x 1¼"	Street x P	36N835
	2" x 1"	Street x P	36N837
	2" x 1¼"	Street x P	36N838
	2" x 1½"	Street x P	36N839
Tee (run x run x outlet)			
	¾" x ¾" x ½"	P x P x FPT	36N812
	¾" x ¾" x ¾"	P x P x FPT	31XK06
	1" x 1" x ½"	P x P x FPT	36N813
	1" x 1" x ¾"	P x P x FPT	36N814
	1¼" x 1¼" x ½"	P x P x FPT	31XK07
	1½" x 1½" x ½"	P x P x FPT	36N815
	1½" x 1½" x ¾"	P x P x FPT	36N816
	2" x 2" x ½"	P x P x FPT	36N817
	2" x 2" x ¾"	P x P x FPT	36N818
	½" x ½" x ½"	P x P x P	36N793
	¾" x ¾" x ½"	P x P x P	36N799
	¾" x ¾" x ¾"	P x P x P	36N794
	1" x 1" x ½"	P x P x P	36N801
	1" x 1" x ¾"	P x P x P	36N802
	1" x 1" x 1"	P x P x P	36N795
	1¼" x 1¼" x 1"	P x P x P	31XK05
	1¼" x 1¼" x 1¼"	P x P x P	36N796
	1½" x 1½" x ½"	P x P x P	36N803
	1½" x 1½" x ¾"	P x P x P	36N804
	1½" x 1½" x 1"	P x P x P	36N805
	1½" x 1½" x 1¼"	P x P x P	36N806
	1½" x 1½" x 1½"	P x P x P	36N797
	2" x 2" x ½"	P x P x P	36N807
	2" x 2" x ¾"	P x P x P	36N808
	2" x 2" x 1"	P x P x P	36N809
	2" x 2" x 1¼"	P x P x P	36N810
	2" x 2" x 1½"	P x P x P	36N811
	2" x 2" x 2"	P x P x P	36N798
Union			
	½" x ½"	P x P	36N824
	¾" x ¾"	P x P	36N825
	1" x 1"	P x P	36N826
	1¼" x 1¼"	P x P	36N827
	1½" x 1½"	P x P	36N828
	2" x 2"	P x P	36N829

Viega MegaPress® Carbon Steel Fittings

viega

- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Can reduce installation time up to 60% compared to welded connections. Fittings use cold press technology with no risk of smoke/fire, and connections are not contaminated with thread cutting oil or metal filings. Ideal for black, painted, and powder-coated pipe (seamless and welded). Have a durable corrosion-resistant, zinc-nickel coating and are ideal for repair or expansion of steel pipe installations. Meet FM, IAPMO, ICC, NFPA 13, 13D and 13R, TSSA/ASME B31.1/B31.3/B31.9, and UL Listed.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
45° Elbow			
	½" x ½"	P x P	49EU31
	¾" x ¾"	P x P	49EU32
	1" x 1"	P x P	49EU33
	1¼" x 1¼"	P x P	49EU34
	1½" x 1½"	P x P	49EU35
	2" x 2"	P x P	49EU36
45° Street Elbow			
	½" x ½"	P x Street	49EU37
	¾" x ¾"	P x Street	49EU38
	1" x 1"	P x Street	49EU39
	1¼" x 1¼"	P x Street	49EU40
	1½" x 1½"	P x Street	49EU41
	2" x 2"	P x Street	49EU42
90° Elbow			
	½" x ½"	P x P	49ET81
	¾" x ¾"	P x P	49ET82
	1" x 1"	P x P	49ET83
	1¼" x 1¼"	P x P	49ET84
	1½" x 1½"	P x P	49ET85
	2" x 2"	P x P	49ET86
90° Street Elbow			
	½" x ½"	P x Street	49ET87
	¾" x ¾"	P x Street	49ET88
	1" x 1"	P x Street	49ET89
	1¼" x 1¼"	P x Street	49ET90
	1½" x 1½"	P x Street	49ET91
	2" x 2"	P x Street	49ET92
Adapter			
	½" x ½"	P x FPT	49ET32
	¾" x ¾"	P x FPT	49ET33
	1" x ½"	P x FPT	49ET39
	1" x ¾"	P x FPT	49ET40
	1" x 1"	P x FPT	49ET34
	1¼" x ½"	P x FPT	49ET41
	1¼" x ¾"	P x FPT	49ET42
	1¼" x 1"	P x FPT	49ET43
	1¼" x 1¼"	P x FPT	49ET35
	1½" x ½"	P x FPT	49ET44
	1½" x ¾"	P x FPT	49ET45
	1½" x 1"	P x FPT	49ET46
	1½" x 1¼"	P x FPT	49ET47
	1½" x 1½"	P x FPT	49ET36
	2" x ½"	P x FPT	49ET48
	2" x ¾"	P x FPT	49ET49
	2" x 1"	P x FPT	49ET50
	2" x 1¼"	P x FPT	49ET51
	2" x 1½"	P x FPT	49ET52
	2" x 2"	P x FPT	49ET37
	½" x ½"	P x MPT	49ET26
	¾" x ¾"	P x MPT	49ET27
	1" x 1"	P x MPT	49ET28
	1¼" x 1¼"	P x MPT	49ET29
	1½" x 1½"	P x MPT	49ET30
	2" x 2"	P x MPT	49ET31

**P = Press*

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Cap			
	½"	P	49EU43
	¾"	P	49EU44
	1"	P	49EU45
	1¼"	P	49EU46
	1½"	P	49EU47
	2"	P	49EU48
Coupling No Stop			
	½" x ½"	P x P	49ET75
	¾" x ¾"	P x P	49ET76
	1" x 1"	P x P	49ET77
	1¼" x 1¼"	P x P	49ET78
	1½" x 1½"	P x P	49ET79
	2" x 2"	P x P	49ET80
Coupling With Stop			
	½" x ½"	P x P	49ET53
	¾" x ¾"	P x P	49ET54
	1" x 1"	P x P	49ET55
	1¼" x 1¼"	P x P	49ET56
	1½" x 1½"	P x P	49ET57
	2" x 2"	P x P	49ET58
Extended Coupling No Stop			
	½" x ½"	P x P	49ET69
	¾" x ¾"	P x P	49ET70
	1" x 1"	P x P	49ET71
	1¼" x 1¼"	P x P	49ET72
	1½" x 1½"	P x P	49ET73
	2" x 2"	P x P	49ET74
Flange			
	½"	P	49EU49
	¾"	P	49EU50
	1"	P	49EU51
	1¼"	P	49EU52
	1½"	P	49EU53
	2"	P	49EU54
Reducer			
	¾" x ½"	Street x P	49ET59
	1" x ½"	Street x P	49ET60
	1" x ¾"	Street x P	49ET61
	1¼" x 1"	Street x P	49ET62
	1½" x ¾"	Street x P	49ET63
	1½" x 1"	Street x P	49ET64
	1½" x 1¼"	Street x P	49ET65
	2" x 1"	Street x P	49ET66
	2" x 1¼"	Street x P	49ET67
	2" x 1½"	Street x P	49ET68

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Tee (run x run x outlet)			
	¾" x ¾" x ½"	P x P x FPT	49ET93
	¾" x ¾" x ¾"	P x P x FPT	49EU06
	1" x 1" x ½"	P x P x FPT	49ET94
	1" x 1" x ¾"	P x P x FPT	49ET95
	1¼" x 1¼" x ½"	P x P x FPT	49EU07
	1¼" x 1¼" x ¾"	P x P x FPT	49EU09
	1¼" x 1¼" x 1"	P x P x FPT	49EU08
	1½" x 1½" x ½"	P x P x FPT	49ET96
	1½" x 1½" x ¾"	P x P x FPT	49ET97
	1½" x 1½" x 1"	P x P x FPT	49ET98
	1½" x 1½" x 1¼"	P x P x FPT	49ET99
	2" x 2" x ½"	P x P x FPT	49EU01
	2" x 2" x ¾"	P x P x FPT	49EU02
	2" x 2" x 1"	P x P x FPT	49EU03
	2" x 2" x 1¼"	P x P x FPT	49EU04
	2" x 2" x 1½"	P x P x FPT	49EU05
	½" x ½" x ½"	P x P x P	49EU10
	¾" x ¾" x ½"	P x P x P	49EU16
	¾" x ¾" x ¾"	P x P x P	49EU11
	1" x 1" x ½"	P x P x P	49EU17
	1" x 1" x ¾"	P x P x P	49EU18
	1" x 1" x 1"	P x P x P	49EU12
	1¼" x 1¼" x ½"	P x P x P	49EU28
	1¼" x 1¼"x ¾"	P x P x P	49EU29
	1¼" x 1¼" x 1"	P x P x P	49EU30
	1¼" x 1¼" x 1¼"	P x P x P	49EU13
	1½" x 1½" x ½"	P x P x P	49EU19
	1½" x 1½" x ¾"	P x P x P	49EU20
	1½" x 1½" x 1"	P x P x P	49EU21
	1½" x 1½" x 1¼"	P x P x P	49EU22
	1½" x 1½" x 1½"	P x P x P	49EU14
	2" x 2" x ½"	P x P x P	49EU23
	2" x 2" x ¾"	P x P x P	49EU24
	2" x 2" x 1"	P x P x P	49EU25
	2" x 2" x 1¼"	P x P x P	49EU26
	2" x 2" x 1½"	P x P x P	49EU27
	2" x 2" x 2"	P x P x P	49EU15
Union			
	½" x ½"	P x P	49EU55
	¾" x ¾"	P x P	49EU56
	1" x 1"	P x P	49EU57
	1¼" x 1¼"	P x P	49EU58
	1½" x 1½"	P x P	49EU59
	2" x 2"	P x P	49EU60

Lead-Free PEX Crimp Fittings

- Max. pressure: 80 psi, except PEX Ball Valves are 160 psi at 73°F, 100 psi at 180°F, and 80 psi at 200°F
- Temp. range: 33° to 200°F
- Fittings are Zurn brand, except Nos. 40PR09, 40PR11, and 40PR12 are Oetiker brand

Easily install without flame, flux, or solder. Require no bonding agents, glue, or solvents. Fittings resist corrosion, mineral buildup, rust, and freeze damage. Suitable for new or retrofit construction and for hot or cold water distribution. Clamps Nos. 40PR09, 40PR11, and 40PR12 feature a narrow band for more concentrated compression and have a tamper-detectable design. Nos. 40PR09 and 40PR12 hold in place while crimped to ease installation. Fittings are certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	PEX Size	Zurn PEX Item No.
Coupling, PEX		
	⅜"	10A588
	½"	10A589
	¾"	10A591
	1"	10A593
	1¼"	10A510
	1½"	10A512
	2"	10A514
Crimp Clamp Ring, Clamp		
	½"	10A573
	¾"	10A574
	1"	10A575
	1¼"	10A503
	1½"	10A504
	2"	10A505
Drop Ear Elbow, 90°, PEX x FNPT		
	½"	10A580
	¾"	10A581
Elbow, 90°, PEX		
	½"	10A603
	¾"	10A604
	1"	10A605
	1¼"	10A515
	1½"	10A516
	2"	10A517
Elbow, 90°, PEX x Female Swivel		
	½"	10A539
Elbow, 90°, PEX x MNPT		
	½"	10A602
Elbow Stubout, 90°, PEX		
	⅜"	10A608
	½"	10A607
	½"	10A609
	¾"	10A610
	1"	10A611

Description	PEX Size	Zurn PEX Item No.
PEX and Pipe Adapter, PEX x Female Swivel		
	¾"	10A541
	¾"	10A542
	1"	10A543
PEX and Pipe Adapter, PEX x FNPT Nonswivel		
	½"	10A583
	¾"	10A585
	1"	10A586
	1¼"	10A532
	1½"	10A533
PEX and Pipe Adapter, PEX x MNPT		
	½"	10A582
	¾"	10A584
	1"	10A587
	1¼"	10A518
	1½"	10A519
	2"	10A520
PEX and Sweat Adapter, PEX x Female Sweat		
	½"	10A598
	¾"	10A601
PEX and Sweat Adapter, PEX x Sweat		
	½"	10A597
	¾"	10A599
	1¼"	10A507
	1½"	10A508
	2"	10A506
Plug, PEX		
	1¼"	10A521
	1½"	10A522
	2"	10A523
Reducing Coupling, PEX		
	¾" x ½"	10A590
	1" x ¾"	10A592
	1¼" x 1"	10A509
	1½" x 1¼"	10A511
	2" x 1½"	10A513

Description	PEX Size	Zurn PEX Item No.
Reducing Tee (run x run x outlet), PEX		
	1" x ¾" x ¾"	48UH65
	1" x 1" x ¾"	48UH66
	1" x 1" x ½"	48UH67
	1¼" x 1¼" x ½"	10A524
	1¼" x 1¼" x ¾"	10A525
	1½" x 1½" x ¾"	10A527
	1½" x 1½" x 1"	10A528
	2" x 2" x 1"	10A530
Stubout, PEX		
	½"	10A606
Stubout, PEX with Flange		
	½"	10A612
Tee, PEX		
	½"	10A594
	¾"	10A595
	1"	10A596
	1¼"	10A526
	1½"	10A529
	2"	10A531
Transition Coupling, PEX		
	½"	10A544
	¾"	10A545

Description	Connection	Nom. Size (in.)	W (in.)	Closed - Open (in.)	Oetiker Item No.
Pex Clamp					
	PEX Crimp	½	0.276	0.563-0.689	40PR12
	PEX Crimp	¾	0.354	0.791-0.917	40PR09
	PEX Crimp	1	0.394	1.039-1.165	40PR11

Manual PEX Tools and PEX Manifolds

MANUAL PEX TOOLS

Nos. 10A618 and 10A619 apply the correct pressure to create a leak-free crimp connection. Use with annealed copper crimp rings, Qick/Sert1® or QickSert CR™ fittings, and Zurn PEX tubing.

No. 10A622 is used to make a copper crimp ring connection. For use with 1¼", 1½", and 2" Zurn PEX copper crimp rings on Zurn PEX DZR and Zurn PEX XL insert fittings.

Nos. 40PR13 and 40PR14 used with ear clamps will not release until the clamp is fully closed to help ensure a leak-free connection. Nos. 52DD79 to 52DD83 meet ASTM F1807.

QUICK PORT MANIFOLDS

- Max. working pressure: 100 psi
- Temp. range: 33° to 200°F

Use to supply different fixtures from a main line and feature controllable water distribution, increased water flow, and no inline below-floor fittings. Certified for use in potable water applications. Meet ASTM F877 F1807.

Item	Size	PEX Size	Includes	Brand	Item No.
Manual PEX Tools					
Crimp Clamp Ring	—	½"	—	Zurn PEX	52DD79
	—	¾"	—	Zurn PEX	52DD80
	—	1"	—	Zurn PEX	52DD81
	—	1¼"	—	Zurn PEX	52DD82
	—	1½"	—	Zurn PEX	52DD83
Pex Crimp Tool	⅜", ½", ⅝" and ¾"	—	Crimp Ring Removal Tool and Go, No Go Gauge, Nylon Carrying Case	Zurn PEX	52DD87
PEX Tool	½"	—	Crimp Gauge	Zurn PEX	10A618
	¾"	—	Crimp Gauge	Zurn PEX	10A619
	1¼", 1½", 2"	—	Socket, Hex Wrench, Crimp Gauge	Zurn PEX	10A622
	½", ¾", 1"	—	Jaws, Case, Batteries and Charger	Ridgid	52RW33

Description	Material	Type	Brand	Item No.
Ratchet Pincers				
Ratchet Pincer	Forged Steel	PEX Fitting	Oetiker	40PR13
Ratchet Pincer with Handle	Forged Steel	PEX Fitting	Oetiker	40PR14

Inlet Size	Outlet Size	Pipe Fitting Connection Type	Overall Length	Mounting Hole Size	Brand	Item No.
Quick Port Manifolds						
1"	½"	MNPS	26⅜"	0.25"	Zurn PEX	10A633
1"	½"	MNPS	26⅜"	0.25"	Zurn PEX	10A636 †
1"	½"	MNPS	37 7/16"	0.25"	Zurn PEX	10A638 †

† No. 10A636 includes (24) 3/8" ball valves. No. 10A638 includes (36) 3/8" ball valves.



No. 10A633



No. 10A618

Lead-Free Push-Fit DZR Brass Fittings

- Max. pressure: 200 psi
- Max. temp.: 200°F, except No. 19F918 is 150°F, Nos. 49EL56 and 49EL58 are 250°F

Push-fit connection requires no clamps, glue, soldering, tools, or unions to help ease installation. Use with hydronic heating and potable water; approved for underground and behind-wall systems without access panels. For residential and commercial whole-house installations, water heater repairs, and sillcock or water filter replacement. Certified for use in potable water applications.

Description	Tube Size	Item No.
Coupling, Push-Fit		
	¼"	19F906
	⅜"	31LC79
	½"	31LC71 *
	½"	19F852
	¾"	31LC70 *
	¾"	19F853
	1"	19F863
Drop Ear Elbow, 90°, Push-Fit		
	½"	19F881
Elbow, Push-Fit x GHT		
	¼" x ¾" GHT	31LC77
Elbow, Push-Fit		
	⅜"	31LC90
Elbow, 90°, Push-Fit		
	¼"	19F919
	½" x ⅜"	19F909
	½"	19F854
	¾"	19F855
	1"	19F865
End Stop, Push-Fit		
	½"	19F856
	¾"	19F861
	1"	19F870
Female Adapter, Push-Fit x FNPT		
	½"	19F866
	¾"	19F872
	1"	19F882
Female Elbow, 90°, Push-Fit		
	½"	19F879

Description	Tube Size	Item No.
Female Hy-Ear Elbow, 90°, Push-Fit x FNPT		
	½"	19F896
Female Reducing Adapter, Push-Fit x FNPT		
	¼"	19F899
	½"	19F895
	¾"	19F916
Fitting Reducer, Push-Fit		
	1" x ¾"	19F898
	1" x ½"	19F905
Male Adapter, Push-Fit x MNPT		
	½"	19F859
	¾"	19F858
	1"	19F874
Male Elbow, 90°, Push-Fit x MNPT		
	⅜"	19F907
Male Reducing Adapter, Push-Fit x MNPT		
	¼"	19F917
	½"	19F883
	¾"	19F897
	1"	19F887
Pressure Gauge, Push-Fit		
	¾"	49EL57
Reducing Coupling, Push-Fit		
	⅜" x ½"	49EL55
	¾" x ½"	19F873
	1" x ¾"	19F877

Description	Tube Size	Item No.
Reducing Elbow, 90°, Push-Fit		
	¾" x ½"	19F878
Reducing Tee, Push-Fit		
	¾" x ½" x ¾"	19F885
	¾" x ½" x ½"	19F880
	¾" x ¾" x ½"	19F867
	1" x 1" x ¾"	19F893
Slip Coupling, Push-Fit		
	½"	45RF57
	½"	19F871
	¾"	45RF58
	¾"	19F869
	1"	45RF59
	1"	19F888
Slip Tee, Push-Fit		
	½"	45RF60
	½"	31LC86
	¾"	45RF62
	¾"	31LC88
	1"	45RF64
Swivel Elbow, 90°, Push-Fit		
	½"	19F884
Tee, Push-Fit		
	¼"	19F908
	½"	19F860
	¾"	19F864
	1"	19F886
Temperature Gauge, Push-Fit		
	½"	49EL56
	¾"	49EL58
Transition Coupling, Push-Fit		
	½"	45RF66
	¾"	45RF67
	1"	45RF68

Description	Tube Size	Item No.
Water Heater Installation Kit, Push-Fit x FNPT		
	½" x ¾"	19F901
	¾" x ¾"	19F910

Description	Pipe Size - Pipe Fitting	Item No.
Male Adapter		
	½"	45RF54
	¾"	45RF55
	1"	45RF56

Description	Hose Length	Fitting Type	Item No.
Flexible Hose Assembly, Brass ¾" FIP x Brass ¾" F Push-to-Connect			
	12"	FIP x Push To Connect	19F891
	15"		19F892
	18"		19F875
	24"		19F894

Description	Pipe Size	Item No.
Flexible Hose Coupling, Push-Fit		
	¾" x 18"	49EL54

Description	Size	L	W	Item No.
Check Valve				
	¾"	3 17/64"	1 21/64"	19F918

**** Connects Polybutylene Pipe to CPVC, PEX or Copper.***



Tube Size	Disconnect Clip, Plastic Item No.	Disconnect Tongs, Stainless Steel Item No.	Disconnect and Gauge Clip, PVC Item No.
½"	1DJC4	52JR56	45RF69
¾"	1DJC6	52JR57	45RF70
1"	1DJC8	52JR58	45RF71



Pipe Size - Pipe Fitting	PEX Stiffener, Copper Item No.
1 ¼"	20XW38
1 ½"	20XW39
2"	20XW40



Tube Size	Deburring Tool, Plastic Item No.
¼", ⅜", ½", ⅝", ¾", 1"	1DJD1



Tube Size	26-Pc. Push-Fit Kit, DZR Brass Item No.
Assorted	19F868

Push-Fit Accessories

Allow you to easily install and disassemble SharkBite® fittings and valves without the need for glue, solder, or clamping. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

DISCONNECT CLIPS AND DISCONNECT TONGS

High-density plastic clips and stainless steel tongs for removal and installation of SharkBite fittings and valves.

PEX STIFFENERS

Help to stiffen PEX tubing for an easier push-fit connection.

DEBURRING TOOL

Use to smooth the rough edges on cut pipe and can also be used to mark pipes for accurate installation.

26-PC. PUSH FIT KIT

Comes with commonly used push-fit fittings and tools. See the full list of kit contents on Grainger.com®.

Lead-Free Instant Push-Fit Brass Ball Valves

SharkBite

- Max. pressure: 200 psi CWP
- Max. temp.: 200°F

Easy-to-install connection requires no clamps, glue, soldering, tools, or unions. Lead-free brass stem and ball, and EPDM seals. Certified for use in potable water applications. Meet cUPC®, UPC®, IAMPO, and IPC; except No. 49EL59 meets ASSE 1061 and is NSF 61 Certified.

Pipe Size	Port	Body Material	Item No.
½"	Full	Lead-Free Naval Brass, Arsenical	19F862
½"	Standard	Lead-Free Brass	31LC74
¾"	Full	Lead-Free Naval Brass, Arsenical	19F857
¾"	Standard	Lead-Free DZR Brass	31LC73
1"	Full	Lead-Free Naval Brass, Arsenical	19F876
1"	Standard	Lead-Free Brass	31LC89


No. 19F862

Lead-Free Compression and Push-Fit Brass Supply Stops

- Max. pressure: 200 psi
- Temp. range: 40° to 180°F, except Connectors are 0° to 200°F, and Tee Stop Valves are 32° to 200°F

Require no clamps, glue, or soldering; can be rotated after assembly to ease installation in tight spaces. Easy to disconnect. Use with flexible service lines and fixtures such as dishwashers, faucets, icemakers, toilets, etc. Certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

SharkBite

Body Style	Body Material	Inlet Size	Outlet Size	Inlet Type	Outlet Type	Item No.
Quarter-Turn Supply Stop						
Angle	Brass	½"	⅜"	Sharkbite	Comp Angle Stop	19F889
Straight	Brass	½"	⅜"	Compression	Compression	19F890


No. 19F915

Description	Tube Fitting Material	Tube Size	Pipe Fitting Connection Type	Item No.
Connectors				
Stop Adapter	DZR Brass	¼" x ⅜"	Push-Fit	19F913
Ballcock Connector	Chrome Plated DZR Brass	¼"	Push-Fit x FNPT	19F914
Ballcock Elbow	Chrome Plated DZR Brass	¼"	Push-Fit	19F915
Faucet Connector	Chrome Plated DZR Brass	¼"	Push-Fit x FNPT	19F904


No. 19F913

PEX Size	Tube Fitting Material	Pipe Fitting Connection Type	Item No.
Tee* Stop Valves			
½" x ¼"	Chrome Plated DZR Brass	Push x Compression	45RF72
		Push x Push	45RF76
½" x ⅜"		Push x Compression	45RF73
¾" x ¼"		Push x Compression	45RF74
¾" x ⅜"		Push x Compression	45RF75

** Tees read: run x run x outlet.*


No. 45RF72

GA GRAINGER APPROVED

PEX Nonbarrier Tubing

- Max. pressure: 100 psi, except Nos. 30VX36 to 30VX44 are 160 psi
- Temp. range: 33° to 180°F, except Nos. 30VX36 to 30VX44 are 35° to 180°F

Offers high burst pressure ratings, high tensile strength, and is chlorine resistant. Suitable for cold and hot water distribution. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.


No. 10A660

PEX Size	Tube Color	Inside Dia.	Outside Dia.	Tube Length	Mfr. Model	Item No.
⅛"	White	5/32"	¼"	100 ft.	Q0PC100	10A671
½"	Blue	3/64"	5/8"	100 ft.	Q3PC100XBLUE	10A666
	Blue	15/32"	½"	10 ft.	QB3PS10XBLUE	30VX38
	Blue	15/32"	5/8"	500 ft.	Q3PC500XBLUE	10A651
	Blue	31/64"	5/8"	300 ft.	Q3PC300XBLUE	10A650
	Red	3/64"	5/8"	100 ft.	Q3PC100XRED	10A658
	Red	3/64"	5/8"	300 ft.	Q3PC300XRED	10A659
	Red	7/16"	5/8"	500 ft.	Q3PC500XRED	10A660
	Red	15/32"	5/8"	10 ft.	QB3PS10XRED	30VX37
	White	3/64"	5/8"	100 ft.	Q3PC100X	10A645
	White	3/64"	5/8"	300 ft.	Q3PC300X	10A653
	White	15/32"	5/8"	10 ft.	QB3PS10X	30VX36
	White	15/32"	5/8"	500 ft.	Q3PC500X	10A646
¾"	Blue	43/64"	⅞"	100 ft.	Q4PC100XBLUE	10A667
	Blue	43/64"	⅞"	300 ft.	Q4PC300XBLUE	10A652
	Blue	43/64"	⅞"	500 ft.	Q4PC500XBLUE	10A668
	Blue	1 1/16"	¾"	10 ft.	QB4PS10XBLUE	30VX41
	Red	43/64"	⅞"	100 ft.	Q4PC100XRED	10A661
	Red	43/64"	⅞"	300 ft.	Q4PC300XRED	10A662
	Red	43/64"	⅞"	500 ft.	Q4PC500XRED	10A663
	Red	1 1/16"	¾"	10 ft.	QB4PS10XRED	30VX40
	White	43/64"	⅞"	300 ft.	Q4PC300X	10A654
	White	43/64"	⅞"	500 ft.	Q4PC500X	10A655
	White	1 1/16"	⅞"	10 ft.	QB4PS10X	30VX39
1"	Blue	27/32"	1"	10 ft.	QB5PS10XBLUE	30VX44
	Blue	55/64"	1 1/8"	100 ft.	Q5PC100XBLUE	10A669
	Blue	55/64"	1 1/8"	300 ft.	Q5PC300XBLUE	10A670
	Red	27/32"	1"	10 ft.	QB5PS10XRED	30VX43
	Red	55/64"	1 1/8"	100 ft.	Q5PC100XRED	10A664
	Red	55/64"	1 1/8"	300 ft.	Q5PC300XRED	10A665
	White	27/32"	1"	10 ft.	QB5PS10X	30VX42
	White	55/64"	1 1/8"	100 ft.	Q5PC100X	10A656
	White	55/64"	1 1/8"	500 ft.	Q5PC500X	10A657
1 1/4"	White	1 3/64"	1 3/8"	100 ft.	Q6PC100X	10A642
1 1/2"	White	1 1/4"	1 5/8"	100 ft.	Q7PC100X	10A643
2"	White	1 5/8"	2 1/8"	100 ft.	Q8PC100X	10A644

CTS Twist-and-Lock Fittings

JG Super Speedfit®

- Max. pressure: 160 psi
- Max. temp.: 200°F

Create a leakproof connection with copper, CPVC, and PEX tubing. Toolless installation is good in tight spaces. Suitable for cold and hot water distribution, potable water distribution, and hydronic heating systems. Meet ASSE 1061, 1GC 188; ASTM F876, F877; ICC; NSF/ANSI 14; UPC®; and are CSA B137-5 Certified.

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Coupler			
	½"	Tube	16T737
	¾"	Tube	16T738
	1"	Tube	16T739
Female Ballcock Connector			
	½" x ⅞" to 1 5/16"	Tube x UNS	16T757
Female Ballcock Elbow, 90°			
	½" x ⅞" to 1 5/16"	Tube x UNS	16T755
Female Connector			
	¾"	Tube x FNPT	16T763
Female Drop Ear Elbow, 90°			
	½"	Tube x FNPT	16T774
Female Swivel Connector			
	½"	Tube x FNPT	16T756
Female Swivel Elbow, 90°			
	½"	Tube x FNPS	16T754

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Male Connector			
	½"	Tube x MNPT	16T758
	½"	Tube x MNPT	16T759
	¾"	Tube x MNPT	16T760
	1"	Tube x MNPT	16T761
	1"	Tube x MNPT	16T762
Male Fixed Elbow, 90°			
	½"	Tube x NPT	16T767
Pipe Insert			
	½"	Tube	16T768
	¾"	Tube	16T769
	1"	Tube	16T770
Reducer			
	¾" x ½"	Tube	16T740
	1" x ¾"	Tube	16T741
Reducing Coupler			
	¾" x ½"	Tube	16T742
	1" x ¾"	Tube	16T743
Reducing Elbow, 90°			
	¾" x ½"	Tube	16T744
Reducing Tee (run x run x outlet)			
	½" x ½" x ¾"	Tube	16T749
	¾" x ½" x ½"	Tube	16T748
	¾" x ½" x ¾"	Tube	16T750
	¾" x ¾" x ½"	Tube	16T747

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Slip Connector			
	½"	Tube	16T726
	¾"	Tube	16T728
Slip Tee Connector			
	½"	Tube	16T727
	¾"	Tube	16T729
Stackable Tee (run x run x outlet)			
	½"	Tube	16T751
	¾"	Tube	16T753
	¾" x ¾" x ½"	Tube	16T752
Stem Elbow, 90°			
	½"	Tube	16T745
	¾"	Tube	16T746
Test Cap			
	½"	Tube	16T764
	¾"	Tube	16T765
	1"	Tube Slim	16T766
Union Elbow, 90°			
	½"	Tube	16T734
	¾"	Tube	16T735
	1"	Tube	16T736
Union Tee			
	½"	Tube	16T731
	¾"	Tube	16T732
	1"	Tube	16T733

Description	Tube Fitting Material	Tube Size	Item No.
Pipe Clip			
	PEX	½"	16T771
	PEX	¾"	16T772
	PEX	1"	16T773
Pipe Clip Spacer			
	PEX	—	16T730

ABS DWV Pipe and Fittings

GA GRAINGER APPROVED

MUELLER STREAMLINE

- Temp. range: -40° to 180°F

Recommended for indoor use in residential and light commercial buildings. Not recommended for pressure. Black color. All fittings and toilet flanges are Mueller Streamline brand. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.



Pipe Size (Nominal)	Brand	Item No.
Pipe - 10 ft, Non-Threaded		
1 ½ in	GA	2DGF9
2 in	GA	2DGG1
3 in	GA	2DGG2
4 in	GA	2DGG3

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
22½° Elbow			
	1½"	Hub x Hub	1WJB3
	2"	Hub x Hub	1WJB4
	3"	Hub x Hub	1WJB5
	4"	Hub x Hub	1WJF7
22½° Street Elbow			
	1½"	Hub x Spigot	1WJF8
	2"	Spigot x Hub	1WJF9
	3"	Spigot x Hub	1CNU1
	4"	Spigot x Hub	3GUP7
45° Elbow			
	1½"	Hub x Hub	1WJA1
	2"	Hub x Hub	1WJA2
	3"	Hub x Hub	1WJA3
	4"	Hub x Hub	1WJA4
45° Street Elbow			
	1½"	Hub x Spigot	1WJA5
	2"	Spigot x Hub	1WJA6
	3"	Spigot x Hub	1WJA7
	4"	Hub x Spigot	1WJA8
60° Elbow			
	1½"	Hub x Hub	1WJA9
	2"	Hub x Hub	1WJB1
90° Double Elbow			
	1½"	Hub x Hub	5REA4
	2"	Hub x Hub	5REA5
	3"	Hub x Hub x Hub	3GUP1
90° Elbow			
	1½"	Hub x Hub	1WHZ2
	2"	Hub x Hub	1WHZ3
	3"	Hub x Hub	1WHZ4
	4"	Hub x Hub	1WHZ5
90° Elbow with Low Heel Inlet			
	3" x 3" x 2"	Hub x Spigot x Hub	3GUR3
90° Long Sweep Elbow			
	1½"	Hub x Hub	1WHX7
	1½"	Hub x Spigot	3GUM4
	2"	Hub x Hub	1WHX8
	3"	Hub x Hub	1WHX9
	3"	Spigot x Hub	3GUM6
	4"	Hub x Hub	1WHZ1
90° Long Sweep Elbow with Low Heel Inlet			
	3" x 3" x 1½"	Hub x Hub x Hub	3GUP6
	3" x 3" x 2"	Hub x Hub x Hub	1WJG9
90° Street Elbow			
	1½"	Hub x Spigot	1WHZ6
	2"	Spigot x Hub	1WHZ7
	3"	Spigot x Hub	1WHZ8
	4"	Hub x Spigot	1WHZ9
90° Vent Elbow			
	1½"	Hub x Hub	1WJH1
	2"	Hub x Hub	1WJH2
	3"	Hub x Hub	1WJH3
Adapter Coupling			
	4" x 3"	Sewer/Drain Hub x Hub	1WJF1
Cleanout Adapter			
	1½"	Spigot x FNPT	1WJC6
	2"	Spigot x FNPT	1WJC7
	3"	Spigot x FNPT	1WJC8
Cleanout Adapter with Plug			
	1½"	Spigot x FNPT	3JWD4
	2"	Spigot x FNPT	3JWD5
	3"	Spigot x FNPT	1WJG7
	4"	Spigot x FNPT	1WJG8
Cleanout Plug			
	1½"	MNPT	1WJE1
	2"	MNPT	1WJE2
	3"	MNPT	1WJE3
	4"	MNPT	1WJE4
Cleanout Tee with Plug			
	1½"	Hub x Hub x FNPT	1WJG4
	2"	Hub x Hub x FNPT	1WJG5
	3"	Hub x Hub x FNPT	1WJG6
	4"	Hub x Hub x FNPT	3JWD7

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Closet Bend			
	4" x 3"	Spigot x Hub	3GUP2
Coupling			
	1½"	Hub x Hub	1WJD6
	2"	Hub x Hub	1WJD7
	3"	Hub x Hub	1WJD8
	4"	Hub x Hub	1WJD9
Double Fixture Wye			
	2"	Hub x Hub x Hub x Hub	3GUP5
	2" x 1½" x 1½" x 1½"	Hub x Hub x Hub x Hub	1CNT8
	3"	Hub x Hub x Hub x Hub	3GUR6
Double Wye			
	1½"	Hub x Hub x Hub x Hub	5REA6
	4"	Hub x Hub x Hub x Hub	5REA7
Female Adapter			
	1½"	Hub x FNPT	1WHX4
	2"	Hub x FNPT	1WHX5
	3"	Hub x FNPT	1WHX6
	4"	Hub x FNPT	1WJN1
Female Trap Adapter with Nut and Washer			
	1½"	Hub x Slip Joint	1WJL6
	1½" x 1¼"	Hub x Slip Joint	1WJL7
	2"	Hub x Slip Joint	3JWD9
Female Trap Adapter with Poly Nut			
	1½"	Hub x Slip Joint	1CNV4
	1½" x 1¼"	Hub x Slip Joint	1CNV7
Flush Bushing			
	1½" x 1¼"	Spigot x Hub	1WJB7
	2" x 1½"	Spigot x FNPT	1WJC4
	2" x 1½"	Spigot x Hub	1WJB8
	3" x 1½"	Spigot x Hub	1WJB9
	3" x 2"	Spigot x Hub	1WJC1
	4" x 3"	Hub x Spigot	1WJC2
	4" x 2"	Spigot x Hub	1WJC3
Flush Cleanout Tee			
	1½"	Hub x Hub x FNPT	3GUM8
	2"	Hub x Hub x FNPT	1CNV9
	3"	Hub x Hub x FNPT	1CNW1
Male Adapter			
	1½"	Hub x MNPT	1WJD2
	1½"	Spigot x MNPT	1WJL9
	2"	Hub x MNPT	1WJD3
	2"	Spigot x MNPT	1WJL8
	3"	Hub x MNPT	1WJD4
	4"	Hub x MNPT	1WJD5
Male Trap Adapter with Nut and Washer			
	1½"	Spigot x Slip Joint	1WJN3
	1½" x 1¼"	Spigot x Slip Joint	1WJN2
Male Trap Adapter with Poly Nut			
	1½"	Spigot x Slip Joint	1CNV6
Pipe Reducer or Increaser			
	2" x 1½"	Hub x Hub	1WJE5
	3" x 1½"	Hub x Hub	1WJE6
	3" x 2"	Hub x Hub	1WJE7
	4" x 2"	Hub x Hub	1WJE8
	4" x 3"	Hub x Hub	1WJE9
P-Trap with Solvent Weld Joint			
	1½"	Hub x Hub	1CNT6
	2"	Hub x Hub	3GUM3
	3"	Hub x Hub	3GUP3
	4"	Hub x Hub	3GUR7
P-Trap with Union			
	1½"	Hub x Hub	1CNT7
	2"	Hub x Hub	3GUM9
P-Trap with Union, Nut and Washer			
	1½"	Hub x Slip Joint	3GUM5

For ABS Solvent Cement, see page 2819.



Item	Connection	Item No.
4 in x 3 in, Plastic		
Adjustable Toilet Flange	Hub	1WJC5
Adjustable Toilet Flange	Hub	1WHR5
Adjustable Toilet Flange	Spigot	1WHR6
Adjustable Toilet Flange	Spigot	3GUP8
Toilet Flange	Hub x Spigot	1WHT1
Toilet Flange	Hub	3GUM7

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Reducing Closet Bend			
	4" x 3"	Hub x Hub	1WJH4
Reducing Double Sanitary Tee			
	4" x 4" x 2" x 2"	Hub x Hub x Hub x Hub	3JWE3
Reducing Sanitary Tee (run x run x outlet)			
	2" x 2" x 1½"	Hub	1WHU1
	2" x 1½" x 1½"	Hub x Hub x Hub	1WHU3
	2" x 1½" x 2"	Hub x Hub x Hub	1WHU2
	3" x 3" x 1½"	Hub x Hub x Hub	1WHU5
	3" x 3" x 2"	Hub x Hub x Hub	1WHU4
	4" x 4" x 2"	Hub x Hub x Hub	1WHU6
	4" x 4" x 3"	Hub x Hub x Hub	1WHU7
Reducing Wye			
	2" x 2" x 1½"	Hub x Hub x Hub	1WHV9
	3" x 3" x 1½"	Hub x Hub x Hub	1WHW1
	3" x 3" x 2"	Hub x Hub x Hub	1WHW2
	4" x 4" x 2"	Hub x Hub x Hub	1WHW3
	4" x 4" x 3"	Hub x Hub x Hub	1WHW4
Reducing Wye with 45° Bend			
	2" x 2" x 1½"	Hub x Hub x Hub	1CNT9
	3" x 3" x 1½"	Hub x Hub x Hub	1WHW5
	3" x 3" x 2"	Hub x Hub x Hub	1WHW8
	4" x 4" x 2"	Hub x Hub x Hub	1WHX2
	4" x 4" x 3"	Hub x Hub x Hub	1WHX3
Sanitary Tee			
	1½"	Hub x Hub x Hub	1WHT6
	2"	Hub x Hub x Hub	1WHT7
	3"	Hub x Hub x Hub	1WHT8
	4"	Hub x Hub x Hub	1WHT9
Sanitary Tee with Left Side Inlet			
	3" x 3" x 3" x 2"	Hub x Hub x Hub x Hub	3GUR4
Sanitary Tee with Right Side Inlet			
	3" x 3" x 3" x 2"	Hub x Hub x Hub x Hub	3GUR2
Socket Cap			
	1½"	Hub	1WJF2
	2"	Hub	1WJF3
	3"	Hub	1WJF4
	4"	Hub	1WJF5
Threaded Cap			
	1½"	FNPT	1WJG3
Two Way Cleanout Tee			
	4"	Hub x Hub x Hub	1WHR9
Vent Tee			
	1½"	Hub x Hub x Hub	3JWE2
	2"	Hub x Hub x Hub	1CNV8
	3"	Hub x Hub x Hub	3GUP9
Wye			
	1½"	Hub x Hub x Hub	1WHV5
	2"	Hub x Hub x Hub	1WHV6
	3"	Hub x Hub x Hub	1WHV7
	4"	Hub x Hub x Hub	1WHV8
Wye with 45° Bend			
	1½"	Hub x Hub x Hub	1WHW7
	2"	Hub x Hub x Hub	1WHW9
	3"	Hub x Hub x Hub	1WHW6
	4"	Hub x Hub x Hub	1WHX1

PVC DWV Fittings

MUELLER STREAMLINE

- Temp. range: 0° to 140°F

These fittings are recommended for indoor use in residential and light commercial buildings. Not recommended for pressure. White color. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

For ABS Solvent Cement, see page 2819.

Description	Pipe Size - Pipe Fitting	Item No.
Adapter		
Hub x SD Hub		
	4"	1WKK3
	4" x 3"	1WKK2
Hub x SD Spigot		
	4" x 3"	1WKL6
Bushing		
Spigot x SD Hub		
	3"	1WKL4
	4"	1WKL5
Cleanout Adapter		
FNPT x Spigot		
	1½"	1WKF9
	2"	1WKG1
	3"	1WKG2
	4"	1WKG3
	6"	3JWE8
Cleanout Adapter with Plug		
FNPT x Spigot		
	1½"	1WKR6
	2"	1WKR7
	3"	1WKR8
	4"	1WKR9
	6"	1WKV6
Cleanout Plug		
MNPT		
	1½"	1WKH6
	2"	1WKH7
	3"	1WKH8
	4"	1WKH9
	6"	1WKW5
Cleanout Tee with Plug		
Hub x Hub x FNPT		
	1½"	3JWE9
	2"	1CNX7
	3"	1WKL7
	4"	1WKL8
Closet Bend		
Hub		
	4" x 3"	1WKT9
Closet Flange		
Hub		
	4"	3GUT4
Closet Flange, Adjustable, Metal Ring		
Hub		
	4" x 3"	1CNW5
Closet Flange, Knockout		
Hub		
	4" x 3"	1CNW7
Closet Flange, Offset, Metal Ring		
Hub		
	4" x 3"	3GUU2
Coupling		
Hub		
	1¼"	1WKH1
	1½"	1WKH2
	2"	1WKH3
	3"	1WKH4
	4"	1WKH5
	6"	1WKW3
	8"	3GUV2
Double Reducing Wye		
Hub		
	3" x 3" x 1½" x 1½"	5REC5
	3" x 3" x 2" x 2"	5REC6
	4" x 4" x 2" x 2"	5REC7

Description	Pipe Size - Pipe Fitting	Item No.
Double Sanitary Tee		
Hub		
	1½"	1WJR7
	2"	1WJR9
	3"	1WJT2
	4"	1WJT4
Double Wye		
Hub		
	1½"	1WJW1
	2"	1WJW3
	3"	1WJW5
	4"	3GUU8
	6"	3JWG5
DWV Sanitary Tee (run x run x outlet)		
Hub		
	4" x 4" x 1½"	1WJR3
Elbow, 22½°		
Hub		
	1½"	1WKE5
	2"	1WKE7
	3"	1WKE9
	4"	1WKL2
	6"	3GUV3
Hub x Spigot		
	4"	1WKL3
Elbow, 45°		
Hub		
	1¼"	1WKB8
	1½"	1WKC1
	2"	1WKC3
	3"	1WKC5
	4"	1WKC7
	6"	1WKV9
Elbow, 60°		
Hub		
	1½"	1WKD8
	2"	1WKE1
	3"	1WKE3
	4"	1WKL1
Elbow, 90°		
Hub		
	1¼"	1WJZ7
	1½"	1WJZ9
	2"	1WKA2
	3"	1WKA4
	4"	1WKA6
	6"	1WKV8
	8"	3GUV1
Elbow, 90°, Long Sweep		
Hub		
	1½"	1WJY8
	2"	1WJZ1
	3"	1WJZ3
	4"	1WJZ5
Elbow, 90°, Low Heel Inlet		
Hub		
	3" x 3" x 1½"	1WKT2
	3" x 3" x 2"	1CNX8
	4" x 4" x 2"	3GUU7
Elbow, 90°, Side Inlet		
Hub		
	3" x 3" x 1½"	1WKT3
Elbow, 90°, Vent		
Hub		
	1½"	1WKT4
	2"	1WKT5
	3"	1WKT6
Female Adapter		
FNPT X Hub		
	1½"	1WJY2
	2"	1WJY4
	3"	1WJY6
	4"	5REC0
	6"	1WKW6

Description	Pipe Size - Pipe Fitting	Item No.
Female Trap Adapter with Nut and Washer		
Hub x Socket		
	1½"	1WKU2
	1½" x 1¼"	1WKU3
	2"	3JWF3
Female Trap Adapter with Poly Nut		
Hub x Socket		
	1½"	1CNX9
Flush Bushing		
Hub x Spigot		
	1½" x 1¼"	3JWF6
	2" x 1½"	1WKF2
	3" x 1½"	1WKF4
	3" x 2"	1WKF5
	4" x 2"	1WKF7
	4" x 3"	1WKF6
	6" x 4"	1WKW4
Flush Cleanout Plug		
MNPT		
	4"	1WKT1
Flush Clean Out Tee		
FNPT x Hub x Hub		
	1½"	5REC3
	2"	1CNY2
	4"	3GUT6
Hub Adapter Increaser		
CI Spigot x Hub		
	2" x 1½"	1WKK1
Spigot x Hub		
	4" x 3"	1WKJ9
Male Adapter		
Hub x MNPT		
	1¼"	1WKG9
	1½"	1WKG5
	1½" x 1¼"	1WKG4
	2"	1WKG6
	3"	1WKG7
	4"	1WKG8
MNPT x Spigot		
	1½"	1WKU5
	2"	1WKU4
	3"	3JWF4
Male Trap Adapter with Nut and Washer		
Socket x Spigot		
	1½"	1WKU9
	1½" x 1¼"	1CNY1
	2"	3JWF1
No Hub Adapter		
CI No Hub x Hub		
	2"	1WKJ6
P-Trap LA Pattern		
Hub x Socket		
	1½"	3GUT7
P-Trap with Cleanout		
Hub		
	1½"	3GUT2
	2"	3JWF2
P-Trap with Solvent Weld Joint		
Hub		
	1½"	1CNW2
	2"	1CNW4
	3"	1CNW6
Hub		
	4"	3GUT9

Description	Pipe Size - Pipe Fitting	Item No.
P-Trap with Union		
Hub		
	1½"	1CNW3
	2"	3GUR9
Reducer		
Hub		
	2" x 1½"	1WKJ1
	3" x 1½"	1WKJ2
	3" x 2"	1WKJ3
	4" x 2"	1WKJ4
	4" x 3"	1WKJ5
	6" x 4"	1WKV5
Reducing Wye		
Hub		
	2" x 2" x 1½"	1WJU7
	3" x 3" x 1½"	1WJU9
	3" x 3" x 2"	1WJV2
	4" x 4" x 1½"	1WJV8
	4" x 4" x 2"	1WJV4
	4" x 4" x 3"	1WJV6
Repair Coupling		
Hub		
	1½"	1WKK4
	2"	1WKK5
	3"	3GUR8
	4"	3GUT3
Sanitary Street Tee		
Hub x Hub x Spigot		
	1½"	5REC1
Spigot x Hub x Hub		
	2"	5REC2
	3"	3GUU3
Sanitary Tee (run x run x outlet)		
Hub		
	1½"	1WJP3
	2"	1WJP4
	2" x 1½" x 2"	1CNW8
	2" x 2" x 1½"	1WJP7
	3"	1WJP5
	3" x 3" x 1½"	1WJP9
	3" x 3" x 2"	1WJP8
	3" x 3" x 1½" x 1½"	1WJT6
	3" x 3" x 2" x 2"	3JWF7
	4"	1WJP6
	4" x 4" x 2"	1WJR1
	4" x 4" x 3"	1WJR2
	4" x 4" x 2" x 2"	1WJN9
	6" x 6" x 4"	1WKV3
Sanitary Tee, Double Reducing		
Hub		
	2" x 2" x 1½" x 1½"	1CNX1
Sanitary Tee with Left Side Inlet		
Hub		
	4" x 4" x 4" x 2"	3JWF5
Slip Joint Nut		
NPSM		
	1½"	1WJP2
Socket Cap		
Hub		
	1½"	1WKK6
	2"	1WKK7
	3"	1WKK8
	4"	1WKK9
	6"	1WKV7
Street Elbow, 22½°		
Hub x Spigot		
	1½"	1CNX4
	2"	1CNX5
	3"	1CNX6

CONTINUED

CONTINUED

For ABS Solvent Cement, see page 2819.

PVC DWV Fittings

MUELLER STREAMLINE

Description	Pipe Size - Pipe Fitting	Item No.
Street Elbow, 45°		
Hub x Spigot		
	1½"	1WKC9
	2"	1WKD2
	3"	1WKD4
	4"	1WKD6
Hub x Spigot		
	6"	1WKW1
Street Elbow, 90°		
Hub x Spigot		
	1½"	1WKA8
	2"	1WKB1
	3"	1WKB3
	4"	1WKB6
	6"	1WKV4

Description	Pipe Size - Pipe Fitting	Item No.
Street Elbow, 90°, Long Sweep		
Spigot x Hub		
	1½"	5REA8
	2"	3GUT5
	4"	3JWE7
Spigot x Hub x Hub		
	3"	3GUU1
Street Elbow, 90°, Vent		
Hub x Spigot		
	1½"	1WKT7
	2"	1WKT8
	3"	3JWE6

Description	Pipe Size - Pipe Fitting	Item No.
Two Way Cleanout Tee		
Hub		
	3"	1WJN7
	4"	1WJN8
Vent Tee		
Hub		
	1½"	1WKU8

Description	Pipe Size - Pipe Fitting	Item No.
Wye		
Hub		
	1½"	1WJT8
	2"	1WJU1
	3"	1WJU3
	4"	1WJU5
	6"	1WKW2
	6" x 6" x 4"	3GUT8
Wye and 45° Elbow		
Hub		
	1½"	1WJX1
	2"	1WJX5
	2" x 2" x 1½"	1WJX9
	3"	1WJW8
	3" x 3" x 2"	1WJX3
	3" x 3" x 1½"	3JWF9
	4"	1WJX7
	4" x 4" x 2"	1CNX2
	6" x 6" x 4"	5REC4

Sewer and Drain Thin Wall PVC Drain and Waste Fittings

Genova PRODUCTS

- For cold water drainage only

Ideal for outdoor or buried installations. 3" fittings meet ASTM D2729 and D2949, except No. 20LU75 meets ASTM D3034 and No. 20LU80 meets D2852. 4" and 6" fittings meet ASTM D3034, except No. 20LU77 meets ASTM D2665. Reducing fittings meet ASTM D2852, except Nos. 20LU42 and 20LU74 meet ASTM D2729 and D2949.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Adapter			
	3" x 4" x 4"	Sewer Hub	20LU74
	4"	Hub	20LU61
Adapter Bushing			
	4" x 1½"	Sewer Spigot x Hub	20LU78
	4" x 2"	Sewer Spigot x Hub	20LU79
Bull Nose Tee			
	4"	Hub	20LU56
	6"	Hub	20LU57
Cap			
	3"	Hub	20LU38
	4"	Hub	20LU39
	6"	Hub	20LU40
Cleanout Body			
	6"	Spigot x FIP	20LU60

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Coupling			
	3"	Hub	20LU35
	4"	Hub	20LU36
	6"	Hub	20LU41
Cross			
	4"	Hub	20LU73
Downspout Adapter			
	2" x 3" x 3"	Sewer Hub	20LU81
Elbow, 22½°			
	6"	Hub	20LU50
Elbow, 45°			
	3"	Hub	20LU46
	4"	Hub	20LU47
	6"	Hub	20LU48
Female Adapter			
	4"	Hub x FIP	20LU43
	6"	Hub	20LU44

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Fitting Cleanout Body			
	3"	Spigot x FIP	20LU58
Floor Strainer			
	3"	Hub	20LU75
	4"	Hub	20LU76
No Hub Adapter			
	4"	Hub x Spigot	20LU77
Plug			
	3"	MIP	20LU80
	4"	MIP	20LU62
	6"	MIP	20LU63
Reducing Bushing			
	3" x 1½"	Sewer Spigot x Hub	20LU42
Sanitary Elbow, 90°			
	3"	Hub	20LU67
	4"	Hub	20LU68
	6"	Hub	20LU69
Sanitary Tee (run x run x outlet)			
	3"	Hub	20LU53
	4"	Hub	20LU54
	6"	Hub	20LU55

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Item No.
Short Turn Elbow, 90°			
	4"	Hub	20LU49
Short Turn Street Elbow, 90°			
	4"	Hub x Spigot	20LU71
	6"	Hub x Spigot	20LU72
Spigot			
	4"	Spigot x Hub	20LU45
Street Elbow, 45°			
	3"	Hub x Spigot	20LU64
	4"	Hub x Spigot	20LU65
	6"	Hub x Spigot	20LU66
Street Elbow, 90°, Long Sweep			
	4"	Hub x Spigot	20LU70
Two Way Cleanout			
	4"	Hub	20LU59
Wye			
	4"	Hub	20LU51
	6"	Hub	20LU52

PVC Schedule 40 Clear Pipe and Fittings

GA GRAINGER APPROVED

- Max. temp.: 140°F

Transparent material allows visual monitoring of liquid flow and color. For use with PVC-compatible cleaners, primers, and solvent cements.

PIPE

Can also serve as a secondary containment system (pipe-in-pipe).

FITTINGS

Meet ASTM D.1784, NS14-14, FDA Regulations 175.300, 178.2650, 178.3790. NSF 61 Rated.

Pipe Size (Nominal)	Max. Pressure	Pipe 8 ft (Rigid) Item No.
½"	300 psi	1AAZ4
¾"	240 psi	1AAZ5
1"	220 psi	1AAZ6
1 ¼"	180 psi	5REW3
1 ½"	170 psi	1AAZ7
2"	140 psi	1AAZ8
2 ½"	150 psi	5REW4
3"	130 psi	1AAZ9
4"	110 psi	1ABA1

Pipe Size - Pipe Fitting	Max. Pressure (psi) @73°F	Elbow, 45° (Solvent x Solvent) Item No.	Elbow, 90° (Solvent x Solvent) Item No.	Tee (Solvent x Solvent x Solvent) Item No.	Coupling (Solvent x Solvent) Item No.	Male Adapter (MNPT x Solvent) Item No.	Female Adapter (FNPT x Solvent) Item No.	Cap (Solvent) Item No.
½"	360	2CEY3	2CEX3	2CEW3	2CEZ3	2CFC3	2CFA3	2CFD3
¾"	280	2CEY4	2CEX4	2CEW4	2CEZ4	2CFC4	2CFA4	2CFD4
1"	270	2CEY5	2CEX5	2CEW5	2CEZ5	2CFC5	2CFA5	2CFD5
1¼"	220	—	2CEX6	2CEW6	2CEZ6	—	—	—
1½"	200	—	2CEX7	2CEW7	2CEZ7	2CFC7	2CFA7	2CFD7
2"	170	2CEY8	2CEX8	2CEW8	2CEZ8	2CFC8	2CFA8	2CFD8
2½"	180	2CEY9	2CEX9	2CEW9	—	2CFC9	—	2CFD9
3"	155	2CEZ1	—	—	2CFA1	—	—	2CFE1
4"	130	2CEZ2	2CEY2	2CEX2	2CFA2	—	2CFC2	—

Schedule 40 PVC Pipe and Fittings

GRAINGER APPROVED

LASCO Fittings, Inc.

- Max. temp.: 140°F
- Pipe is GA brand, fittings are Lasco brand

Ideal for lower pressure use in irrigation and other outdoor cold water applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Pipe Size (Nominal)	GA Item No.
Pipe, 10 ft		
	½ in	5AFJ2
	¾ in	5AFJ3
	1 in	5AFJ4
	1 ¼ in	5AFJ5
	1 ½ in	5AFJ6
	2 in	5AFJ7
	2 ½ in	5AFJ8
	3 in	5AFJ9
	4 in	5AFK0
	6 in	22FR48
	8 in	22FR49

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Bushing, MNPT x FNPT		
	½"	22FM59
Cap, FNPT		
	½"	22FJ33
	¾"	22FJ39
	1"	22FJ31
	1¼"	22FJ29
	1½"	22FJ27
	2"	22FJ36
	2½"	22FM71
	3"	22FM72
	4"	22FM73
Cap, Socket		
	½"	22FJ34
	¾"	22FJ40
	1"	22FJ32
	1¼"	22FJ30
	1½"	22FJ28
	2"	22FJ37
	2½"	22FJ35
	3"	22FJ38
	4"	22FJ41
	5"	22FM69
	6"	22FJ42
	8"	22FM70
Coupling, FNPT x FNPT		
	½"	22FJ47
	¾"	22FJ52
	¾" x ½"	22FM24
	1"	22FJ45
	1" x ¾"	22FM25
	2"	22FM23
Coupling, Socket x Socket		
	⅜"	22FM14
	½"	22FJ48
	¾"	22FJ53
	1"	22FJ46
	1¼"	22FJ44
	1½"	22FJ43
	2"	22FJ50
	2½"	22FJ49
	3"	22FJ51
	4"	22FJ54
	5"	22FM15
	6"	22FJ55
	8"	22FM16
Cross, Socket x Socket x Socket x Socket		
	½"	22FJ59
	¾"	22FJ61
	1"	22FJ58
	1¼"	22FJ57
	1½"	22FJ56
	2"	22FJ60
	2½"	22FM07
	3"	22FM08
	4"	22FM09
Deep Socket Coupling, Socket x Socket		
	1½"	22FM93
	3"	22FM94
	4"	22FM95
Elbow, 22½°, Socket x Socket		
	1½"	22FM87
	2"	22FM88
	3"	22FM89
	4"	22FM90

** No. 22FK19 is 3.83"L, No. 22FK91 is 5"L. † No. 22FJ73 is 3.10"L, No. 22FL35 is 3.45"L.*

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Elbow, 45°, Socket x Socket		
	½"	22FJ66
	¾"	22FJ69
	1"	22FJ65
	1¼"	22FJ63
	1½"	22FJ62
	2"	22FJ67
	2½"	22FJ64
	3"	22FJ68
	4"	22FJ70
	6"	22FJ71
	8"	22FM06
Elbow, 45°, Spigot x Socket		
	2½"	22FM11
Elbow, 90°, FNPT x FNPT		
	½"	22FJ74
	¾"	22FJ97
	1¼"	22FL93
	1½"	22FL94
	2"	22FL95
Elbow, 90°, Socket x FNPT		
	½"	22FJ88
	¾"	22FJ99
	1"	22FJ83
	1¼"	22FJ79
	1½"	22FJ76
	2"	22FJ92
	3"	22FL89
Elbow, 90°, Socket x Socket		
	⅜"	22FL82
	½"	22FJ91
	¾"	22FK03
	1"	22FJ86
	1¼"	22FJ73 †
	1½"	22FJ72
	2"	22FJ95
	2½"	22FJ75
	3"	22FJ96
	4"	22FK04
	5"	22FL83
	6"	22FK05
	8"	22FL84
Elbow, 90°, Side Outlet, Socket x Socket x FNPT		
	½"	22FL28
Elbow, 90°, Side Outlet, Socket x Socket x Socket		
	1½"	22FM04
Female Adapter, Slip x FNPT		
	¾"	22FJ24
Female Adapter, Socket x FNPT		
	½"	22FJ18
	1"	22FJ16
	1¼"	22FJ12
	1½"	22FJ09
	2"	22FJ21
	2½"	22FM26
	5"	22FM27
	6"	22FM28
	8"	22FM29
Long Socket Coupling, Socket x Socket		
	1½"	22FM12
	2"	22FM13
Male Adapter, MNPT x Socket		
	½"	22FJ19
	¾"	22FJ25
	1"	22FJ17
	1¼"	22FJ13
	1½"	22FJ10
	2"	22FJ22
	2½"	22FM30
	6"	22FM31
Plug, MNPT		
	½"	22FK10
	¾"	22FK12
	1"	22FK09
	1¼"	22FK08
	1½"	22FK07
	2"	22FK11
	2½"	22FM76
	3"	22FM77
	4"	22FM78
Plug, Spigot		
	½"	22FK16
	¾"	22FK18
	1"	22FK15
	1¼"	22FK14
	1½"	22FK13
	3"	22FM74
	4"	22FM75
P-Trap, Socket x Spigot		
	½"	22FK19 *
	½"	22FK91 *

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Reducer, MNPT x Socket		
	½" x ⅜"	22FM32
	½" x ¾"	22FJ26
	¾" x ½"	22FL26
	1" x ¾"	22FL22
	1" x 1¼"	22FJ15
	1¼" x 1½"	22FJ14
	1½" x 1¼"	22FJ11
	1½" x 2"	22FJ23
	2" x 1½"	22FL24
	2" x 2½"	22FM33
	2" x 3"	22FM34
	3" x 4"	22FM35
Reducer, Socket x FNPT		
	½" x ¾"	22FL25
	¾" x 1"	22FL21
	1" x ¾"	22FL23
Reducing 90° Elbow, Slip x Slip		
	1¼" x 1"	22FL35 †
Reducing Bushing, MNPT x FNPT		
	⅜" x ¼"	22FM60
	½" x ⅜"	22FM61
	¾" x ¼"	22FM62
	¾" x ⅜"	22FM63
	¾" x ½"	22FK66
	1" x ½"	22FK44
	1" x ¾"	22FK47
	1¼" x ½"	22FM64
	1¼" x ¾"	22FK39
	1¼" x 1"	22FK34
	1½" x ½"	22FM66
	1½" x ¾"	22FK29
	1½" x 1"	22FK24
	1½" x 1¼"	22FK23
	1½" x 2"	22FM65
	2" x 1"	22FK58
	2" x 1¼"	22FM67
	2" x 1½"	22FK53
	3" x 2"	22FM68
Reducing Bushing, Spigot x FNPT		
	½" x ⅛"	22FM52
	½" x ⅜"	22FM53
	¾" x ½"	22FK67
	1" x ½"	22FK45
	1" x ¾"	22FK42
	1¼" x ½"	22FK37
	1¼" x ¾"	22FK40
	1¼" x 1"	22FK35
	1½" x ½"	22FK27
	1½" x ¾"	22FK30
	1½" x 1"	22FK25
	1½" x 1¼"	22FK32
	2" x ½"	22FK59
	2" x ¾"	22FK60
	2" x 1"	22FK62
	2" x 1¼"	22FK56
	2" x 1½"	22FK54
	2½" x 1"	22FM54
	2½" x 1¼"	22FK51
	2½" x 1½"	22FM55
	2½" x 2"	22FK48
	3" x 1"	22FM56
	3" x 1½"	22FM57
	3" x 2"	22FK69
	3" x 2½"	22FK64
	4" x 2"	22FM58
	4" x 2½"	22FK71
	4" x 3"	22FK72
Reducing Bushing, Spigot x Socket		
	½" x ⅜"	22FM36
	¾" x ½"	22FK68
	1" x ½"	22FK46
	1" x ¾"	22FK43
	1¼" x ½"	22FK38
	1¼" x ¾"	22FK41
	1¼" x 1"	22FK36
	1½" x ½"	22FK28
	1½" x ¾"	22FK31
	1½" x 1"	22FK26
	1½" x 1¼"	22FK33
	2" x ¾"	22FK61
	2" x 1"	22FK63
	2" x 1¼"	22FK57
	2" x 1½"	22FK55
	2½" x ½"	22FM37
	2½" x ¾"	22FM38
	2½" x 1"	22FM39
	2½" x 1¼"	22FK52
	2½" x 1½"	22FK50
	2½" x 2"	22FK49
	3" x ¾"	22FM40
	3" x 1"	22FM41
	3" x 1¼"	22FM42
	3" x 1½"	22FM43
	3" x 2"	22FK70
	3" x 2½"	22FK65
	4" x 2½"	22FM44
	5" x 4"	22FM45
	6" x 2"	22FM46
	6" x 3"	22FM47
	6" x 5"	22FM48
	8" x 4"	22FM50
	8" x 6"	22FM51

CONTINUED

CONTINUED

GRAINGER APPROVED LASCO Fittings, Inc.

Schedule 40 PVC Pipe and Fittings

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Reducing Coupling, Socket x Socket		
	¾" x ½"	22FK22
	1¼" x 1"	22FM17
	1½" x 1¼"	22FM18
	2" x 1½"	22FM19
	3" x 2"	22FK21
	4" x 3"	22FM20
	6" x 4"	22FM21
	8" x 6"	22FM22
Reducing Elbow, Socket x FNPT		
	¾" x ½"	22FL30
	1" x ½"	22FL31
	1" x ¾"	22FL32
	1¼" x 1"	22FL90
	1½" x 1"	22FL91
	2" x 1"	22FL92
	2" x 1½"	22FL29
Reducing Elbow, Socket x Socket		
	¾" x ½"	22FL33
	1" x ½"	22FL34
	1" x ¾"	22FL36
	1½" x 1"	22FL85
	2" x 1"	22FL86
	2" x 1¼"	22FL87
Reducing Elbow, Socket x Socket x FNPT		
	¾" x ¾" x ½"	22FK90
	1" x 1" x ½"	22FK83
	1" x 1" x ¾"	22FK84
	1¼" x 1¼" x ½"	22FK77
	1¼" x 1¼" x ¾"	22FK79
	1¼" x 1¼" x 1"	22FL68
	1½" x 1½" x ½"	22FK73
	1½" x 1½" x ¾"	22FK75
	2" x 2" x ¾"	22FK86
	2" x 2" x 1¼"	22FL69
	2" x 2" x 1½"	22FL70
	2½" x 2½" x ½"	22FL71
	2½" x 2½" x ¾"	22FL72
	2½" x 2½" x 1"	22FL73
	2½" x 2½" x 1½"	22FL74
	3" x 3" x ¾"	22FL75
	3" x 3" x 1"	22FL76
	3" x 3" x 2"	22FK87
	4" x 4" x 3"	22FL77
Reducing Tee (run x run x outlet), Socket x Socket x FNPT		
	¾" x ½" x ½"	22FL38
	1" x ½" x ½"	22FL37

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Reducing Tee (run x run x outlet), Socket x Socket x Socket		
	¾" x ½" x ½"	22FL42
	¾" x ½" x ¾"	22FK88
	¾" x ¾" x ½"	22FK89
	1" x ½" x 1"	22FL43
	1" x ¾" x ½"	22FL44
	1" x ¾" x ¾"	22FL45
	1" x 1" x ½"	22FK80
	1" x 1" x ¾"	22FK81
	1" x 1" x 1½"	22FL46
	1¼" x 1¼" x ¾"	22FK78
	1¼" x 1¼" x 1"	22FK76
	1½" x 1½" x ¾"	22FK74
	1½" x 1½" x 1"	22FK82
	1½" x 1½" x 1¼"	22FL47
	1½" x 1½" x 2"	22FL48
	2" x 2" x 1¼"	22FL49
	2" x 2" x 1½"	22FK85
	2½" x 2½" x ¾"	22FL50
	2½" x 2½" x 1"	22FL51
	2½" x 2½" x 1½"	22FL52
	2½" x 2½" x 2"	22FL53
	3" x 3" x ¾"	22FL54
	3" x 3" x 1"	22FL55
	3" x 3" x 1¼"	22FL56
	3" x 3" x 1½"	22FL57
	3" x 3" x 2"	22FL58
	4" x 4" x ¾"	22FL59
	4" x 4" x 1"	22FL60
	4" x 4" x 2"	22FL61
	4" x 4" x 3"	22FL62
	6" x 6" x 2"	22FL63
	6" x 6" x 3"	22FL64
	6" x 6" x 4"	22FL65
Riser Extender, MNPT x FNPT		
	½"	22FK06
Street Elbow, 90°, MNPT x FNPT		
	½"	22FJ87
	¾"	22FJ98
	1"	22FJ82
	1½"	22FM03
Street Elbow, 90°, MNPT x Socket		
	½"	22FJ89
	¾"	22FK01
	1"	22FJ84
	1¼"	22FJ80
	1½"	22FJ77
	2"	22FJ93
Street Elbow, 90°, Spigot x FNPT		
	½"	22FL98
	¾"	22FL99
	1½"	22FM02

Description	Pipe Size - Pipe Fitting	LASCO Item No.
Street Elbow, 90°, Spigot x Socket		
	½"	22FJ90
	¾"	22FK02
	1"	22FJ85
	1¼"	22FJ81
	1½"	22FJ78
	2"	22FJ94
	2½"	22FL96
	3"	22FL97
Tee, FNPT x FNPT x FNPT		
	½"	22FL01
	¾"	22FL07
	1"	22FK97
	1¼"	22FL80
	1½"	22FL81
Tee, Socket x FNPT x Socket		
	½"	22FL79
	¾"	22FL39
Tee, Socket x Socket x FNPT		
	½"	22FL03
	¾"	22FL09
	1"	22FK98
	1¼"	22FK96
	1½"	22FK94
	2"	22FL66
Tee, Socket x Socket x Socket		
	⅜"	22FL40
	½"	22FL02
	¾"	22FL08
	1"	22FK99
	1¼"	22FK95
	1½"	22FK93
	2"	22FL05
	2½"	22FL04
	3"	22FL06
	4"	22FL10
	5"	22FL11
	6"	22FL12
	8"	22FL41
Union, FNPT x FNPT		
	½"	22FM79
	¾"	22FM80
	1"	22FM81
	1¼"	22FM82
	1½"	22FM83
	2"	22FM84
Union, Socket x Socket		
	½"	22FL14
	¾"	22FL19
	1"	22FL13
	1¼"	22FL16
	1½"	22FL15
	2"	22FL17
	3"	22FL18
	4"	22FL20
Wye, Socket x Socket		
	4"	22FM92

CPVC CTS Fittings and Pipe

GRAINGER APPROVED SPEARS Genova PRODUCTS

Material resists mineral buildup for long life. Suitable for use in potable hot and cold water distribution, and designed to help prevent energy loss. FlowGuard Gold® pipe adds up to 80% greater resistance to impact fracture compared to regular CPVC pipe. It won't corrode, pit, or scale and is immune to chlorine degradation. Can be used in condensate drains and under slab plumbing. All fittings and pipe are easy to connect using CPVC primer and solvent cement sold on page 2819. For certifications go to Grainger.com®.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Max. Pressure	Max. Temp.	Brand	Item No.
Fittings						
Adapter	½"	MNPT X CTS Socket Hub	100 psi	180 °F	GA	2GKA1
	¾"	MNPT X CTS Socket Hub	100 psi	180 °F	GA	2GKA3
	1"	MNPT X CTS Socket Hub	100 psi	180 °F	GA	2GKA5
Cap	½"	CTS Hub	100 psi	180 °F	GA	2GKF2
Coupling	½"	CTS Hub	100 psi	180 °F	GA	2GJY7
	¾"	CTS Hub	100 psi	180 °F	GA	2GJY8
	1"	CTS Hub	100 psi	180 °F	GA	2GJZ1
CPVC to Brass Adapter	½"	Socket CTS x FNPT Brass	200 psi	—	GA	23NY84
	½"	Socket CTS x MNPT Brass	200 psi	—	GA	23NY81
	¾"	Socket CTS x FNPT Brass	200 psi	—	GA	23NY85
	¾"	Socket CTS x MNPT Brass	200 psi	—	GA	23NY82
	1"	Socket CTS x FNPT Brass	200 psi	—	GA	23NY86
	1"	Socket CTS x MNPT Brass	200 psi	—	GA	23NY83
Elbow, 45°	2"	CTS Hub	100 psi	180 °F	GA	2GKC5
Elbow, 90°	2"	CTS Hub	100 psi	180 °F	GA	2GKD5
Elbow,90° CTS	½"	CTS Hub	100 psi	180 °F	GA	2GKC9
	¾"	CTS Hub	100 psi	180 °F	GA	2GKD1
	1"	CTS Hub	100 psi	180 °F	GA	2GKD2
Reducing Bushing	1" x ¾"	CTS Spigot x CTS Hub	400 psi@73°F	180 °F	Spears	5UEG2

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type	Max. Pressure	Max. Temp.	Brand	Item No.
Tee	½"	CTS Hub	100 psi	180 °F	GA	2GKE3
Transition Bushing	½"	IPS X CTS Hub	—	220 °F	Spears	22EX85
	¾"	IPS X CTS Hub	—	220 °F	Spears	22EX86
	1"	IPS X CTS Hub	—	220 °F	Spears	22EX87
Transition Female Adapter	½"	FNPT X CTS Hub	400 psi@73°F	180 °F	Spears	5UEC6
	¾"	FNPT X CTS Hub	—	180 °F	Spears	5UEC7
	1"	FNPT X CTS Hub	—	180 °F	Spears	5UEC8
Transition Male Adapter	1"	MNPT X CTS Hub	100 psi	180 °F	Spears	5UED1
	¾"	MNPT X CTS Hub	—	180 °F	Spears	5UED0
Union	½"	CTS Hub	100 psi	180 °F	Spears	5UEA8
	¾"	CTS Hub	100 psi	180 °F	Spears	5UEA9
	1"	CTS Hub	400 psi@73°F	180 °F	Spears	5UEC0



FlowGuard Gold®
No. 470N68

Pipe Size (Nominal)	Max. Pressure	Max. Temp.	Brand	Item No.
Pipe, 10 ft				
½"	100 PSI @ 180°F	180°F	Genova	470N67
¾"				470N69
1"				470N71
FlowGuard Gold® Pipe, 10 ft				
½"	100 PSI @ 180°F	180°F	Genova	470N68
¾"				470N70
1"				470N72

PVC Insert Fittings

LASCO® Fittings, Inc.

- Max. temp.: 140°F

Ideal for use in irrigation, pools, pumps, spas, wells, and other outdoor cold water applications. Fittings insert into flexible polyethylene pipe and secure with worm drive clamp (sold separately on page 2532). For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Description	Pipe Size - Pipe Fitting	Item No.
Adapter		
Insert x MNPT		
	½"	6MM79
	¾"	6MM80
	1"	6MM81
	1¼"	6MM82
Insert x SPG/Slip		
	1"	22FN87
Coupling		
Insert		
	½"	6MM75
	¾"	6MM76
	¾" x ½"	22FN20
	1"	6MM77
	1" x ½"	22FN21
	1" x ¾"	22FN22
	1¼"	6MM78
	1¼" x ¾"	22FN85
	1¼" x 1"	22FN23
	1½" x 1"	22FN24
	1½" x 1¼"	22FN86
	2"	22FN19
	2" x 1½"	22FN25
	3"	22FN81
	4"	22FN82
Insert x Double Helix		
	¾"	22FN83
	1"	22FN84
Cross		
Insert		
	¾"	22FN79
	1"	22FN80

Description	Pipe Size - Pipe Fitting	Item No.
Elbow, 90°		
Insert		
	½"	6MM71
	¾"	6MM72
	1"	6MM73
	1¼"	6MM74
	1½"	22FN05
	2"	22FN06
	3"	22FN70
Insert x FNPT		
	½"	22FN07
	¾"	22FN08
	1"	22FN09
	1¼"	22FN10
	1½"	22FN11
	2"	22FN12
Insert x MNPT		
	¾"	22FN14
	2"	22FN18
Female Adapter		
Insert x FNPT		
	½"	22FN26
	¾"	22FN27
	1"	22FN28
	1¼"	22FN29
	1½"	22FN30
	2"	22FN31
Female Adapter Reducing Tee (run x run x outlet)		
Insert x Insert x FNPT		
	¾" x ¾" x ½"	22FN57
	1" x ¾" x ¾"	22FN58
	1" x 1" x ½"	22FN59
	1" x 1" x ¾"	22FN60
	1¼" x 1¼" x ½"	22FN61
	1¼" x 1¼" x ¾"	22FN62
	1¼" x 1¼" x 1"	22FN63
	1½" x 1½" x ½"	22FN64
	1½" x 1½" x ¾"	22FN65
	1½" x 1½" x 1"	22FN66
Female Adapter Tee		
Insert x Insert x FNPT		
	½"	22FN53
	¾"	22FN54
	1"	22FN55
	1½"	22FN56

Description	Pipe Size - Pipe Fitting	Item No.
Male Adapter		
Insert x MNPT		
	1½"	22FN32
	2"	22FN33
	3"	22FN88
Male Adapter Tee		
Insert x Insert x MNPT		
	½"	22FN67
	¾"	22FN68
	1"	22FN69
Male Elbow, 90°		
Insert x MNPT		
	½"	22FN13
	1"	22FN15
	1¼"	22FN16
	1½"	22FN17
Reducing Elbow, 90°		
Insert		
	¾" x ½"	22FN71
	1" x ¾"	22FN72
Insert x FNPT		
	¾" x ½"	22FN73
	1" x ½"	22FN74
	1" x ¾"	22FN75
	1¼" x ¾"	22FN76
	1¼" x 1"	22FN77
	1½" x 1"	22FN78
Reducing Male Adapter		
Insert x MNPT		
	1" x ½"	22FN90
	1" x 1½"	22FN99
	1¼" x 1"	22FN94
	1½" x 1"	22FN95
	2" x 1½"	22FP02
MNPT x Insert		
	1¼" x 1"	22FN96
	1½" x 1¼"	22FP01

Description	Pipe Size - Pipe Fitting	Item No.
MNPT x Insert		
	2" x 1½"	22FP03
Reducing Tee (run x run x outlet)		
Insert		
	¾" x ½" x ½"	22FM98
	¾" x ¾" x ½"	22FN44
	1" x ¾" x ¾"	22FN01
	1" x 1" x ½"	22FN46
	1" x 1" x ¾"	22FN02
	1¼" x 1¼" x ¾"	22FN49
	1¼" x 1¼" x 1"	22FN03
	1½" x 1½" x ¾"	22FN50
	1½" x 1½" x 1"	22FN04
	2" x 2" x 1"	22FN51
	2" x 2" x 1½"	22FN52
Straight Plug		
Insert		
	½"	22FN34
	¾"	22FN35
	1"	22FN36
	1¼"	22FN37
	1½"	22FN38
	2"	22FN39
Tee		
Insert		
	½"	6MM67
	¾"	6MM68
	1"	6MM69
	1¼"	6MM70
	1½"	22FM96
	2"	22FM97
	3"	22FN41
Insert x Insert x Double Helix		
	¾"	22FN43
	1"	22FN45

Corrugated Drain Pipe and Fittings

Corrugated Drainage Pipe—This angular drain pipe is heavy-duty construction and ideal for most drainage applications including use in foundation/edge, downspout, culvert, and sub-drainage applications. Bend-a-Drain™ pipe Nos. 49ET04, 49ET07, 49ET05, and 45FM97 lets you expand the pipe lengthwise and adjust it into the desired angular position. Suitable for use in above and below ground downspout drainage, low spot drainage, and in french drain applications.

Concrete and Pipe Fittings—Inserta Tee® compression-style fittings are a 3-pc. connection system consisting of a stainless steel band, rubber sleeve, and PVC hub. System allows you to connect into the cored wall of a mainline and requires no adhesive or special tools for installation.

Hole Saws for Corrugated Pipe—Allow you to core fast, clean, and smooth holes. Cutting teeth are rugged, high-speed steel for long life.

Solid Drain Pipe Fittings—Rugged, single wall polyethylene construction. Drain End Caps Nos. 45FN23, 45FN03, and 45FN29 are for use in horizontal applications. Not for use in any vertical applications.

Description	Pipe Fitting Diameter	Item No.
Concrete and Pipe Fittings, PVC, SBR Rubber		
SDR35 to Concrete Pipe Adapter	4 in	45FN47
SDR35 to SDR35 Pipe Fitting	4 in	45FN46
	6 in	45FN49

Description	Saw Dia.	Teeth per Inch	Item No.
Hole Saws for Corrugated Pipe			
	4 ½ in	5	45FN52
	6 ½ in	5	45FN53

Description	Perforations	Wall Type	Pipe Dia.	Outside Dia.	Pipe Length	Material*	Item No.
Corrugated Drainage Pipe							
No. 45FN09	2-Hole Perforated	Triple	4 in	4¼"	10 ft	PE	45FN09
	3-Hole Perforated	Triple	4 in	4¼"	10 ft	PE	45FN10
No. 45FN15	Perforated	Single	3 in	3½"	100 ft	PE	45FN13
		Single	3 in	3⅝"	10 ft	PE	45FN15
		Single	4 in	—	12 ft	PE	49ET04
		Single	4 in	—	25 ft	PE	49ET07
		Single	4 in	4 39/64"	10 ft	PE	45FN06
		Single	4 in	4 39/64"	100 ft	PE	45FN05
		Single	6 in	6½"	100 ft	PE	45FN17
		Single	6 in	8½"	10 ft	PE	45FN20
		Single	15 in	17 45/64"	20 ft	PE	45FN30
		Single	18 in	20½"	20 ft	PE	45FN32
		Triple	3 in	3 39/64"	10 ft	PE	45FN12
No. 49ET07	Solid	Single	3 in	3¼"	10 ft	PE	45FN16
		Single	3 in	3½"	100 ft	PE	45FN14
		Single	4 in	—	12 ft	PE	49ET05
		Single	4 in	—	25 ft	PP	45FM97
		Single	4 in	4½"	10 ft	PE	45FN07
No. 45FN11		Single	4 in	4½"	100 ft	PE	45FN04
		Single	6 in	7"	100 ft	PE	45FN18
		Single	6 in	8½"	10 ft	PE	45FN19
		Single	15 in	15½"	20 ft	PE	45FN31
		Single	18 in	20½"	20 ft	PE	45FN33
		Triple	3 in	3½"	10 ft	PE	45FN11
No. 45FN08		Triple	4 in	4¼"	10 ft	PE	45FN08

** PE = polyethylene, PP = polypropylene.*

Pipe Dia.	Wall Type	Material	Corrugate Drain Internal Coupler Item No.	Corrugated Drain Wye Item No.	Corrugated Drain Elbow Item No.	Corrugated Drain Tee Item No.	Corrugated Drain End Cap Item No.	Downspout Adapter Item No.	Flexible Pipe Item No.
Solid Drain Pipe Fittings									
3 in	Single	Polyethylene	45FN25	45FN21	45FN24	45FN22	45FN23	49ET08	—
4 in	Single	Polyethylene	—	45FM99	45FN01	45FN02	45FN03	49ET09	49ET06
6 in	Single	Polyethylene	45FN26	45FN27	—	45FN28	45FN29	—	—

Schedule 80 PVC Pipe and Fittings

- Max. pressure: 246 psi
- Max. temp.: 140°F

Nontoxic, lightweight fittings resist corrosion, chemicals, and rust. Feature a higher pressure rating than Schedule 40 fittings and are suitable for use in cold potable water applications. Compatible with PVC primer and solvent cement sold on page 2819. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

GA GRAINGER APPROVED +GF+

WARNING: Thermoplastic piping products should not be used for systems to transport or store compressed air or gases, nor should these products be tested with air or gases in above- or below-ground locations.

Description	Pipe Size (Nominal)	PIPE, GA 10 ft Length Item No.
Pipe		
	½ in	6MV20
	¾ in	6MV21
	1 in	6MV22
	1 ¼ in	6MV23
	1 ½ in	6MV24
	2 in	6MV25
	2 ½ in	1VFA3
	3 in	1VEV4
	4 in	1VFA5
	6 in	22FR52
	8 in	22FR53

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Blind Flange		
Flanged		
	1"	2PML4
	1¼"	2PML5
	1½"	2PML6
	2½"	3TNV6
Socket		
	2"	1VFP9
	3"	1VFR2
	4"	1VFR4
Cap		
NPT		
	⅜"	6ND23
	½"	6ND24
	¾"	6ND25
	1"	6ND26
	1¼"	6ND27
	1½"	6ND28
	2"	6ND29
Socket		
	¼"	3TNU6
	⅜"	3TNU7
	½"	6ND11
	¾"	6ND12
	1"	6ND13
	1¼"	6ND14
	1½"	6ND15
	2"	6ND16
	2½"	1VFN8
	3"	1VFP1
	4"	1VFP3
	6"	22JY83
	8"	22JY84
Coupling		
FNPT x FNPT		
	⅜"	22JY61
	½"	6NG65
	¾"	6NG66
	1"	6NG67
	1¼"	6NG68
	1½"	6NG69
	2"	6NG70
	2½"	1VFH8
	3"	1VFJ1
	4"	1VFJ3
Socket x Socket		
	⅜"	22JY51
	½"	6NG52
	¾"	6NG53
	1"	6NG54
	1¼"	6NG55
	1½"	6NG56
	2"	6NG57
	2½"	1VFG5
	3"	1VFG7
	4"	1VFG9
	6"	22JY52
	8"	22JY53

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Elbow, 45°		
FNPT x FNPT		
	¼"	22JY48
	⅜"	22JY49
	½"	6NG42
	¾"	6NG43
	1"	6NG44
	1¼"	3TNT2
	1½"	6NG46
	2"	6NG47
	3"	1VFG1
	4"	1VFG3
Socket x Socket		
	¼"	22JY44
	⅜"	22JY45
	½"	6NG29
	¾"	6NG30
	1"	6NG31
	1¼"	6NG32
	1½"	6NG33
	2"	6NG34
	2½"	1VFF4
	3"	1VFF6
	4"	1VFF8
	6"	22JY46
	8"	22JY47
Elbow, 90°		
FNPT x FNPT		
	¼"	22JY42
	⅜"	22JY43
	½"	6NG18
	¾"	6NG19
	1"	6NG20
	1¼"	6NG21
	1½"	6NG22
	2"	6NG23
	2½"	1VFE7
	3"	1VFE9
	4"	1VFF2
FNPT x Socket		
	½"	2PMD8
	¾"	2PMD9
	1"	2PME1
	1¼"	2PME2
	1½"	2PME3
	2"	2PME4
	3"	2PME5
Socket x Socket		
	¼"	22JY38
	⅜"	22JY39
	½"	6NG05
	¾"	6NG06
	1"	6NG07
	1¼"	6NG08
	1½"	6NG09
	2"	6NG10
	2½"	1VFE1
	3"	1VFE3
	4"	1VFE5
	6"	22JY40
	8"	22JY41
Female Adapter		
FNPT x Socket		
	¼"	3TNT5
	⅜"	3TNT6
	½"	6NG76
	¾"	6NG77
	1"	6NG78
	1¼"	6NG79
	1½"	6MV30
	2"	6MV31
	2½"	1VFJ5
	3"	1VFJ7
	4"	1VFJ9

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Flange		
FNPT		
	½"	6MV78
	¾"	6MV79
	1"	6MV80
	1¼"	6MV81
	1½"	6MV82
	2"	6MV83
Socket		
	1½"	2PMK5
	2"	6ND38
	4"	3TNV5
	6"	22JY91
	8"	22JY92
Spigot		
	½"	22JY95
	¾"	22JY96
	1"	22JY97
	1¼"	22JY98
	1½"	22JY99
	2"	22JZ01
	2½"	22JZ02
	3"	22JZ03
	4"	22JZ04
	8"	22JZ06
Hex Head Plug		
MNPT		
	¼"	1KA63
	⅜"	2NU95
	½"	2NU96
	¾"	2NU97
	1"	2NU98
	1¼"	3TNV3
	1½"	2NU99
	2"	2NV10
	2½"	3TNV4
	3"	1VFP5
	4"	1VFP7
Male Adapter		
MNPT x Socket		
	½"	6MV35
	¾"	6MV36
	1"	6MV37
	1¼"	6MV38
	1½"	6MV39
	2"	6MV40
	2½"	1VFK2
	3"	1VFK4
	4"	1VFK6
Reducer Tee (run x run x outlet)		
Socket x Socket x Socket		
	¾" x ¾" x ½"	1VFA9
	1" x 1" x ½"	1VFB2
	1" x 1" x ¾"	1VFB4
	1¼" x 1¼" x 1"	1VFB6
	1½" x 1½" x ¾"	1VFB8
	1½" x 1½" x 1"	1VFC1
	2" x 2" x 1"	1VFC3
	2" x 2" x 1½"	1VFC5
	3" x 3" x 2"	1VFC7
	4" x 4" x 2"	1VFC9
	4" x 4" x 3"	1VFD2
Reducing Bushing		
MNPT x FNPT		
	½" x ¼"	2PMJ4
	½" x ⅜"	3TNU3
	¾" x ¼"	6MV65
	¾" x ½"	2PMJ5
	1" x ¼"	6MV66
	1" x ½"	2PMJ6
	1" x ¾"	2PMJ7
	1¼" x ½"	6MV67

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Reducing Bushing (Cont.)		
MNPT x FNPT (Cont.)		
	1¼" x ¾"	6MV68
	1¼" x 1"	2PMJ8
	1½" x ¾"	6MV69
	1½" x 1"	2PMJ9
	1½" x 1¼"	3TNU4
	2" x ½"	6MV70
	2" x ¾"	6MV71
	2" x 1"	6MV72
	2" x 1¼"	6MV73
	2" x 1½"	3TNU5
	3" x 2"	1VFN2
	4" x 2"	1VFN4
	4" x 3"	1VFN6
Spigot x FNPT		
	½" x ¼"	2PMG1
	½" x ⅜"	2PMG2
	¾" x ¼"	2PMG3
	¾" x ½"	2PMG4
	1" x ½"	2PMG5
	1" x ¾"	2PMG6
	1¼" x ½"	2PMG7
	1¼" x ¾"	2PMG8
	1¼" x 1"	2PMG9
	1½" x ¾"	2PMH2
	1½" x 1"	2PMH3
	1½" x 1¼"	2PMH4
	2" x ½"	2PMH5
	2" x ¾"	2PMH6
	2" x 1"	2PMH7
	2" x 1¼"	2PMH8
	2½" x 1½"	2PMJ1
	2½" x 2"	2PMJ2
	3" x 2"	1VFL5
	3" x 2½"	2PMJ3
	4" x 2"	1VFL7
	4" x 3"	1VFL9
Spigot x Socket		
	½" x ¼"	6MV44
	½" x ⅜"	3TNT7
	¾" x ½"	6MV45
	1" x ½"	6MV46
	1" x ¾"	6MV47
	1¼" x ½"	3TNT8
	1¼" x ¾"	6MV48
	1¼" x 1"	6MV49
	1½" x ¾"	6MV51
	1½" x 1"	6MV52
	1½" x 1¼"	6MV53
	2" x ½"	6MV54
	2" x ¾"	6MV55
	2" x 1"	6MV56
	2" x 1¼"	6MV57
	2" x 1½"	6MV58
	2½" x 1½"	3TNT9
	2½" x 2"	3TNU1
	3" x 2"	1VFK8
	3" x 2½"	3TNU2
	4" x 2"	1VFL1
	4" x 3"	1VFL3

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Reducing Coupling		
FNPT x FNPT		
	⅜" x ¼"	22JY62
	½" x ¼"	22JY63
	½" x ⅜"	22JY64
	¾" x ½"	22JY65
	1" x ½"	22JY66
	1" x ¾"	22JY67
	1¼" x ¾"	22JY68
	1½" x 1"	22JY69
	2" x 1½"	22JY70
Socket x Socket		
	¾" x ½"	2PME6
	1" x ½"	2PME7
	1" x ¾"	2PME8
	1¼" x 1"	3TNT3
	1½" x ½"	22JY54
	1½" x ¾"	2PMF1
	1½" x 1"	2PMF2
	1½" x 1¼"	2PMF3
	2" x ½"	2PMF4
	2" x ¾"	2PMF5
	2" x 1"	2PMF6
	2" x 1¼"	2PMF7
	2" x 1½"	2PMF8
	2½" x 1½"	2PMF9
	2½" x 2"	3TNT4
	3" x 1½"	22JY55
	3" x 2"	1VFH2
	3" x 2½"	22JY56
	4" x 2"	1VFH4
	4" x 3"	1VFH6
	6" x 4"	22JY57
	8" x 4"	22JY58
	8" x 6"	22JY59
Solid Flange		
FNPT		
	2½"	2PMK8
	3"	2PMK9
	4"	2PML1
Socket		
	½"	2PMK1
	¾"	2PMK2
	1"	2PMK3
	1¼"	2PMK4
	2½"	2PMK6
	3"	2PMK7
Tee		
FNPT x FNPT x FNPT		
	¼"	3TNR9
	⅜"	3TNT1
	½"	6NF93
	¾"	6NF94
	1"	6NF95
	1¼"	6NF96
	1½"	6NF97
	2"	6NF98
	2½"	1VFD4
	3"	1VFD6
	4"	1VFD8
Socket x Socket x FNPT		
	½"	2TVH8
	¾"	2PMD4
	1"	2PMD5
	1½"	2PMD6
	2"	2PMD7
Socket x Socket x Socket		
	¼"	3TNR7
	⅜"	3TNR8
	½"	6NF80
	¾"	6NF81
	1"	6NF82
	1¼"	6NF83
	1½"	6NF84
	2"	6NF85
	3"	22JY29
	6"	22JY30
	8"	22JY31

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Transition Adapter		
FNPT x SPG		
	1½"	22JZ18
Union		
FNPT x FNPT		
	½"	11W266
	¾"	11W267
	1"	11W268
	1¼"	11W269
	1½"	11W270
	2"	11W271
Socket x Socket		
	½"	11W260
	¾"	11W261
	1"	11W262
	1¼"	11W263
	1½"	11W264
	2"	11W265
	3"	1VGB5
	4"	1VGB7
Van-Stone Flange		
FNPT		
	½"	2PMN5
	¾"	2PMN6
	1"	2PMN7
	1¼"	2PMN8
	1½"	2PMN9
	2"	2PMP1
	2½"	2PMP2
	3"	1VFT1
	4"	1VFT3
Socket		
	½"	2PML7
	¾"	2PML8
	1"	2PML9
	1¼"	2PMN1
	1½"	2PMN2
	2"	2PMN3
	2½"	2PMN4
	3"	1VFR6
	4"	1VFR8
Spigot		
	6"	22JZ05

Schedule 80 CPVC Pipe and Fittings

GA GRAINGER APPROVED +GF+

- Max. pressure: 246 psi
- Max. temp.: 210°F; Nos. 3TNW6 to 3TNX7, 3TPV1, and 3TPV2 are 200°F

These nontoxic, lightweight fittings resist corrosion, chemicals, and rust. Chlorine is added to allow higher temperatures than PVC, and the CPVC material has broader chemical resistance. Suitable for hot water and corrosive liquids. Use with CPVC primer and solvent cement sold on page 2819. Meet ASTM D1784 and NSF-14 compliant, except Nos. 22JZ30 to 22JZ69 are NSF only.

WARNING: Thermoplastic piping products should not be used for systems to transport or store compressed air or gases, nor should these products be tested with air or gases in above- or below-ground locations.

Description	Pipe Size (Nominal)	PIPE, GA 10 ft Length Item No.
Pipe		
	½ in	6MZ10
	¾ in	6MZ11
	1 in	6MZ12
	1 ¼ in	6MZ13
	1 ½ in	6MZ14
	2 in	6MZ15
	2 ½ in	1VGD9
	3 in	1VEV8
	4 in	1VEW1
	6 in	22FR50
	8 in	22FR51

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Blind Flange		
Socket		
	1"	2PLY1
	1½"	2PLY3
	2"	1VGT8
	2½"	2PLY4
	3"	1VGU1
	4"	1VGU3
	6"	22JZ69
Cap		
FNPT		
	¼"	22JZ65
	⅜"	2PLU9
	½"	2PLV1
	¾"	2PLV2
	1"	2PLV3
	1¼"	2PLV4
	1½"	2PLV5
	2"	2PLV6
Socket		
	½"	6MX04
	¾"	6MX05
	1"	2PLU8
	1¼"	6MX07
	1½"	6MX08
	2"	6MX09
	2½"	1VGT2
	3"	1VGT4
	4"	1VGT6
Coupling		
FNPT		
	⅜"	22JZ47
	1"	6NF16
	1¼"	2PLP4
FNPT x FNPT		
	½"	6NF14
	¾"	6NF15
	1½"	2PLP5
	2"	6NF18
	3"	1VGN1
	4"	1VGN3
Socket		
	1"	6NF04
	1¼"	6NF05
	2½"	1VGK7
	4"	1VGL2
	6"	22JZ42
	8"	22JZ43
Socket x Socket		
	¼"	22JZ46
	½"	6NF02
	¾"	6NF03
	1½"	6NF06
	2"	6NF07
	3"	1VGK9
Elbow, 45°		
FNPT x FNPT		
	¼"	22JZ38
	½"	6ND94
	¾"	6ND95
	1"	2PLL4
	1¼"	2PLL5
	1½"	2PLL6
	2"	2PLL7
	3"	1VGK5

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Socket x Socket		
	½"	6ND82
	¾"	6ND83
	1"	6ND84
	1¼"	6ND85
	1½"	2PLL3
	2"	6ND87
	2½"	1VGJ8
	3"	1VGK1
	4"	1VGK3
	6"	22JZ36
	8"	22JZ37
Elbow, 90°		
FNPT x FNPT		
	¼"	22JZ32
	⅜"	22JZ33
	½"	6ND76
	¾"	6ND77
	1"	6ND78
	1¼"	6ND79
	1½"	6ND80
	2"	2PLL1
	3"	1VGJ4
	4"	1VGJ6
FNPT x Socket		
	½"	3TNW8
	¾"	3TNW9
	1"	3TNX1
Socket x Socket		
	½"	6ND63
	¾"	6ND64
	1"	6ND65
	1¼"	6ND66
	1½"	6ND67
	2"	6ND68
	2½"	1VGH7
	3"	1VGH9
	4"	1VGJ2
	6"	22JZ30
	8"	22JZ31
Female Adapter		
FNPT x Socket		
	¼"	3TPV1
	½"	6NF20
	¾"	6NF21
	1"	6NF22
	1¼"	6NF23
	1½"	6NF24
	2"	6NF25
	3"	1VGN5
	4"	1VGN7
Socket x FPT		
	6"	22JZ53
	8"	22JZ54
Hex Head Plug		
MNPT		
	¼"	6MX23
	⅜"	6MX24
	½"	6MX25
	¾"	6MX26
	1"	6MX27
	1½"	6MX28
	2"	6MX29
	3"	2PLV7
	4"	3TNX8
Male Adapter		
MNPT x Socket		
	½"	6NF28
	¾"	6NF29
	1"	6NF30
	1¼"	6NF31
	1½"	6NF32
	2"	2PLP7
	3"	1VGN9
	4"	2PLP8
Socket x MPT		
	6"	22JZ55
	8"	22JZ56

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Reducer Bushing		
MNPT x FNPT		
	½" x ¼"	3TNX5
	½" x ⅜"	3TNX6
	¾" x ½"	6MW98
	1" x ½"	3TNX7
	1" x ¾"	6MW99
	1¼" x 1"	6MX01
	1½" x ¾"	2PLU5
	1½" x 1"	3TPV2
	1½" x 1¼"	6MX02
	2" x 1"	2PLU6
	2" x 1¼"	2PLU7
	2" x 1½"	6MX03
Spigot x FNPT		
	½" x ¼"	2PLR3
	½" x ⅜"	2PLR4
	¾" x ¼"	2PLR5
	¾" x ½"	2PLR6
	1" x ½"	2PLR7
	1" x ¾"	2PLR8
	1¼" x ½"	2PLR9
	1¼" x ¾"	2PLT1
	1¼" x 1"	2PLT2
	1½" x ¾"	2PLT4
	1½" x 1"	2PLT5
	1½" x 1¼"	2PLT6
	2" x ½"	2PLT7
	2" x ¾"	2PLT8
	2" x 1"	2PLT9
	2" x 1¼"	2PLU1
	2" x 1½"	2PLU2
	2½" x 1½"	2PLU3
	2½" x 2"	2PLU4
	3" x 2"	1VGR5
	4" x 2"	1VGR7
Spigot x Socket		
	½" x ¼"	6NF33
	½" x ⅜"	1VGP2
	¾" x ½"	6NF34
	1" x ½"	6NF35
	1" x ¾"	6NF36
	1¼" x ½"	3TNX2
	1¼" x ¾"	2PLP9
	1¼" x 1"	6MW82
	1½" x ¾"	6MW84
	1½" x 1"	6MW85
	1½" x 1¼"	6MW86
	2" x ½"	6MW87
	2" x ¾"	2PLR1
	2" x 1"	2PLR2
	2" x 1¼"	6MW90
	2" x 1½"	6MW91
	2½" x 1½"	3TNX3
	2½" x 2"	3TNX4
	3" x 2"	1VGP6
	3" x 2½"	1VGP8
	4" x 2"	1VGR1
	4" x 3"	1VGR3

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Reducing Coupling		
FNPT x FNPT		
	½" x ¼"	22JZ48
	½" x ⅜"	22JZ49
	¾" x ½"	22JZ50
	1" x ¾"	22JZ51
	1½" x 1"	22JZ52
Socket		
	¾" x ½"	2PLL9
	1" x ½"	2PLN1
	1" x ¾"	2PLN2
	1½" x ½"	2PLN3
	1½" x ¾"	2PLN4
	1½" x 1"	2PLN5
	1½" x 1¼"	2PLN6
	2" x ½"	2PLN7
	2" x 1"	2PLN9
	2" x 1¼"	2PLP1
	2" x 1½"	2PLP2
	2½" x 1½"	2PLP3
	3" x 2"	1VGL4
	4" x 2"	1VGL6
	4" x 3"	1VGL8
Reducing Tee (run x run x outlet)		
Socket x Socket x Socket		
	¾" x ¾" x ½"	1VGE8
	1" x 1" x ½"	1VGF1
	1" x 1" x ¾"	1VGF3
	1¼" x 1¼" x 1"	1VGF5
	1½" x 1½" x ½"	22JZ25
	1½" x 1½" x ¾"	1VGF7
	1½" x 1½" x 1"	1VGF9
	2" x 2" x 1"	1VGG2
	2" x 2" x 1½"	1VGG4
	3" x 3" x 2"	1VGG6
	4" x 4" x 2"	1VGG8
	4" x 4" x 3"	1VGH1
Solid Flange		
FNPT		
	½"	2PLW8
	¾"	2PLW9
	1"	2PLX1
	1¼"	2PLX2
	1½"	2PLX3
	2"	2PLX4
	2½"	2PLX5
	3"	2PLX6
	4"	2PLX7
Socket		
	½"	2PLV8
	¾"	2PLV9
	1"	2PLW1
	1¼"	2PLW2
	1½"	2PLW3
	2"	2PLW4
	2½"	2PLW5
	3"	2PLW6
	4"	2PLW7

Description	Pipe Size - Pipe Fitting	FITTINGS, +GF+ Item No.
Tee		
FNPT x FNPT x FNPT		
	¼"	3TNW6
	⅜"	3TNW7
	½"	6ND55
	¾"	6ND56
	1"	6ND57
	1¼"	6ND58
	1½"	2LUV1
	2"	2TVJ4
	3"	1VGH3
Socket x Socket x Socket		
	½"	6ND42
	¾"	6ND43
	1"	6ND44
	1¼"	6ND45
	1½"	6ND46
	2"	6ND47
	2½"	1VGE2
	3"	1VGE4
	4"	1VGE6
	6" x 6" x 4"	22JZ26
	8" x 6"	22JZ27
Union		
Socket x Socket		
	3"	1VGY1
	4"	1VGY3
Van-Stone Flange		
Socket		
	½"	2PLY5
	¾"	2PLY6
	1"	2PLY7
	1¼"	2PLY8
	1½"	2PLY9
	2"	2PLZ1
	2½"	2PLZ2
	3"	1VGU5
Wye		
Socket		
	1½"	1VGY5
	2"	1VGY7
	2" x 2" x 1½"	22JZ92
	3"	1VGY9
	3"	22JZ93
	3"	22JZ94
	4"	1VGZ2
	4" x 2"	22JZ95
	4" x 3"	22JZ96
	6"	22JZ90
	6"	22JZ97
	6" x4"	22JZ98

KeepStock® Inventory Management

TAKE CONTROL OF YOUR STUFF

What if there were an easier way to ensure you have the right parts in the right place at the right time? Put Grainger's expertise to work for you. It's almost like managing your inventory on autopilot.

Inventory managed. Space organized. Time and money saved.

> Learn more at **grainger.com/keepstock**

+GF+ SPEARS

Schedule 80 PVC and CPVC Pipe Nipples

- Max. pressure: 420 psi at 73°F

These nontoxic, lightweight gray nipples resist corrosion, chemicals, and rust. For PVC primer and solvent cement, see page 2819. Meet ASTM and NSF compliant, except Nos. 22JZ85 to 22JZ89 are NSF only.

WARNING: Thermoplastic piping products should not be used for systems to transport or store compressed air or gases, nor should these products be tested with air or gases in above or below ground locations.

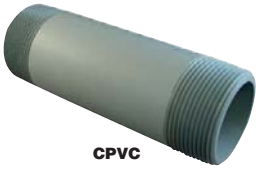
Note: All items are GF brand unless indicated otherwise in table.

PVC—Have higher pressure rating than schedule 40 fittings. For cold potable water applications.
- Max. temp.: 140°F

CPVC—Chlorine is added to allow for higher temperatures than PVC. For hot water and corrosive liquids.
- Max. temp.: 210°F



PVC



CPVC

Pipe Size (Nominal)	Close Thread Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.	5" Item No.	6" Item No.	8" Item No.	10" Item No.	12" Item No.
PVC										
½"	3TNV7	6MV88	—	6MV89	6MV90	—	6MV92	6MV93	6MV94	6MV95
¾"	6MV96	6MV87	—	6MV98	6MV99	—	6MW02	6MW03	—	6MW05
1"	—	6MW06	—	6MW07	6MW08	—	6MW10	6MW11	6MW12	6MW13
1"	—	22EX93 *	—	—	—	—	—	—	—	—
1¼"	6MW14	22EX94 *	—	6MW17	6MW19	—	6MW21	3TNV8	3TNV9	6MW24
1¼"	—	22JZ07	—	—	—	—	—	—	—	—
1½"	6MW25	6MW26	—	22JZ08	6MW27	—	6MW29	6MW30	3TNW1	6MW32
1½"	—	22EX95 *	—	—	—	—	—	—	—	—
2"	—	22EX96 *	6MW33	6MW34	6MW35	—	6MW37	6MW38	3TNW2	6MW40
2½"	1VFT5	1VFT7	—	22EX97 *	1VFT9	—	1VFV4	1VFV6	22JZ09	1VFX1
3"	1VFX3	1VFX5	—	22EX98 *	1VFX7	—	1VFY2	1VFY4	1VFY6	1VFY8
4"	1VFZ1	1VFZ3	—	22EX99 *	22EY01 *	—	1VFZ7	1VFZ9	1VGA2	1VGA4
6"	—	—	—	—	22EY02 *	—	22EY03 *	22EY04 *	22EY05 *	22EY06 *
CPVC										
½"	3TPV4	6MX60	—	6MX61	6MX62	6MX63	2PLZ7	—	22EY18 *	22EY28 *
¾"	6MX65	6MX55	—	6MX66	6MX67	2PLZ8	6MX69	—	22EY19 *	22EY29 *
1"	6MX70	22EY07 *	—	6MX72	6MX73	2PLZ9	6MX74	—	22EY20 *	22EY30 *
1"	—	22JZ85	—	—	—	—	—	—	—	—
1¼"	2PMA2	22EY08 *	—	2PMA3	2PMA4	2PMA5	2PMA6	—	22EY21 *	22EY31 *
1¼"	—	22JZ86	—	—	—	—	—	—	—	—
1½"	22JZ87	22EY09	—	6MX82	6MX83	2PMA7	2PMA8	—	22EY22 *	22EY32 *
1½"	—	6MX81	—	—	—	—	—	—	—	—
2"	2PMA9	22EY10 *	22JZ88	2PMC1	2PMC2	2PMC3	2PMC4	—	22EY23 *	22EY33 *
2½"	1VGU9	1VGV2	—	22EY11 *	1VGV4	—	—	22EY15 *	22EY24 *	—
3"	1VGW1	1VGW3	—	22EY12 *	1VGW5	—	1VGW9	22EY16 *	22EY25 *	22EY34 *
4"	1VGX2	—	—	22EY13 *	22EY14 *	—	1VGX8	22EY17 *	22EY26 *	22EY35 *
4"	—	—	—	—	22JZ89	—	—	—	—	—
6"	—	—	—	—	22EY37 *	—	22EY38 *	22EY39 *	22EY40 *	22EY36 *

*All items are GF brand unless indicated otherwise in table: * Spears brand.*

BANJO Liquid Handling Products

Schedule 80 Polypropylene Pipe Fittings

- Max. pressure: 150 psi at 70°F
- Temp. range: -20° to 150°F

Impact-resistant, glass-reinforced polypropylene has excellent chemical resistance. Can be used in fertilizer, herbicide, and insecticide handling applications, as well as for industrial applications, such as waste, saltwater, and cooling water handling.



Elbow, 90°
No. 1MJY4



Plug
No. 1MKA1



Class 150 Flange
No. 1MJW1

Item	Pipe Fitting Connection Type	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	3" Item No.	4" Item No.
Cap	FNPT	5MLU8	1MJW2	1MJW3	1MJW4	1MJW5	1MJW6	1MJW7	5MLU9	—
Class 150 Flange	FNPT	—	—	—	1MJV6	—	1MJV7	1MJV8	1MJV9	1MJW1
Coupling	FNPT x FNPT	1MJW8	1MJW9	1MJX1	1MJX2	1MJX3	1MJX4	1MJX5	1MJX6	—
Elbow, 90°	FNPT x FNPT	1MJY4	1MJY5	1MJY6	1MJY7	1MJY8	1MJY9	1MJZ1	1MJZ2	—
Plug	MNPT	5MLU6	1MKA1	1MKA2	1MKA3	1MKA4	1MKA5	1MKA6	1MKA7	—
Street Elbow, 45°	FNPT x MNPT	—	—	1MKF5	1MKF7	1MKF9	1MKG2	1MKG4	5MLU5	—
Street Elbow, 90°	FNPT x MNPT	1MKF3	1MKF4	1MKF6	1MKF8	1MKG1	1MKG3	1MKG5	1MKG6	—
Tee (run x run x outlet)	FNPT x FNPT x FNPT	1MKG7	1MKG8	1MKG9	1MKH1	1MKH2	1MKH3	1MKH4	1MKH5	—

Pipe Size - Pipe Fitting	Reducing Bushing (MNPT x FNPT) Item No.	Reducing Nipple (MNPT) Item No.
⅜" x ¼"	1MKA8	—
½" x ¼"	1MKA9	—
½" x ⅜"	1MKB1	1MKE1
¾" x ⅛"	1MKB2	—
¾" x ¼"	1MKB3	—
¾" x ⅜"	1MKB4	—
¾" x ½"	1MKB5	1MKE2
1" x ¼"	1MKB6	—
1" x ½"	1MKB7	1MKE3
1" x ¾"	1MKB8	1MKE4
1¼" x ¾"	1MKB9	1MKE5

Pipe Size - Pipe Fitting	Reducing Coupling (FNPT x FNPT) Item No.	Reducing Bushing (MNPT x FNPT) Item No.	Reducing Nipple (MNPT) Item No.
1" x ¾"	1MKD3	—	—
1¼" x 1"	—	1MKC1	1MKE6
1½" x ¾"	—	1MKC2	—
1½" x 1"	1MKD4	1MKC3	1MKE7
1½" x 1¼"	1MKD5	1MKC4	1MKE8
2" x ¾"	—	1MKC5	—
2" x 1"	1MKD6	1MKC6	—
2" x 1¼"	1MKD7	1MKC7	1MKE9
2" x 1½"	1MKD8	1MKC8	1MKF1
3" x 1½"	—	1MKC9	—
3" x 2"	1MKD9	1MKD1	1MKF2
4" x 3"	—	1MKD2	—

Pipe Size - Pipe Fitting	Hex Nipple (MNPT x MNPT) Item No.
¼"	3DTJ4
⅜"	1MJZ3
½"	1MJZ4
¾"	1MJZ5
1"	1MJZ6
1¼"	1MJZ7
1½"	1MJZ8
2"	1MJZ9
3"	3DTL2

Pipe Size (Nominal)	Overall Pipe Length	Nipple (Threaded on Both Ends) Item No.
½"	3"	3DTJ5
¾"	4"	3DTJ6
	6"	3DTJ7
1"	4"	3DTJ8
	6"	3DTJ9
1¼"	4"	3DTK1
	6"	3DTK2
1½"	3"	3DTK3
	4"	3DTK4
	5"	3DTK5
	6"	3DTK6
2"	4"	3DTK7
	6"	3DTK8
3"	4"	3DTK9
	6"	3DTL1

Chemtrol

Kynar® Pipe Fittings and Valves

- Temp. range: 73° to 280°F, except Nos. 38AP77 to 38AP83 have a max. temp of 210°F

Resist salts, strong acids, dilute bases, and organic solvents. Use with PVDF pipe that conforms to ASTM D3222, Type 1, Grade 2. Meet ASTM D3222, except Nos. 38AP77 to 38AP83 meet ASTM F1970, NSF/ANSI 14 and 61, Annex G.

TRUE UNION VALVES

Can be removed without disrupting connected piping.

TRU-BLOC® BALL VALVES

Provide minimum flow restriction with lowest possible pressure drop.


Tee
No. 1CRG4


Ball Check Valve, True Union
No. 1CRT3


Ball Valve, True-Bloc®
No. 1CRU1


True-Bloc®
No. 38AP82

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting: ½ in Max. Thread Pressure	½ in Max. Socket Pressure	½ in Item No.	¾ in Max. Thread Pressure	¾ in Max. Socket Pressure	¾ in Item No.	1 in Max. Thread Pressure	1 in Max. Socket Pressure	1 in Item No.	1½ in Max. Thread Pressure	1½ in Max. Socket Pressure	1½ in Item No.	2 in Max. Thread Pressure	2 in Max. Socket Pressure	2 in Item No.
Fittings																
Adapter	FNPT x Socket	290 psi	580 psi	1CRD1	230 psi	470 psi	1CRD2	210 psi	430 psi	1CRD3	160 psi	326 psi	1CRD4	—	—	—
	Socket x FNPT	—	—	—	—	—	—	—	—	—	—	—	—	140 psi	270 psi	1CRD5
Blind Flange	Socket	—	—	—	—	—	—	—	430 psi	1CRJ7	—	326 psi	1CRJ8	—	270 psi	1CRJ9
Cap	FNPT	290 psi	—	1CRU9	230 psi	—	1CRH2	210 psi	—	1CRV1	160 psi	—	1CRH3	140 psi	—	1CRV2
Coupling	FNPT x FNPT	290 psi	580 psi	1CRC5	230 psi	470 psi	1CRC6	210 psi	430 psi	1CRC7	160 psi	326 psi	1CRC8	140 psi	270 psi	1CRC9
	Socket x Socket	—	580 psi	1CRB9	—	470 psi	1CRC1	—	430 psi	1CRC2	—	326 psi	1CRC3	—	270 psi	1CRC4
Elbow, 45°	FNPT x FNPT	290 psi	—	1CRE2	230 psi	—	1CRE3	210 psi	—	1CRE4	160 psi	—	1CRE5	140 psi	—	1CRE6
	Socket x Socket	—	580 psi	1CRD6	—	470 psi	1CRD7	—	430 psi	1CRD8	—	326 psi	1CRD9	—	270 psi	1CRE1
Elbow, 90°	FNPT x FNPT	290 psi	—	1CRF3	230 psi	—	1CRF4	210 psi	—	1CRF5	160 psi	—	1CRF6	140 psi	—	1CRF7
	Socket x Socket	—	580 psi	1CRE7	—	470 psi	1CRE8	—	430 psi	1CRE9	—	326 psi	1CRF1	—	270 psi	1CRF2
Plug	MNPT	290 psi	—	1CRU6	230 psi	—	1CRG9	210 psi	—	1CRU7	160 psi	—	1CRH1	140 psi	—	1CRU8
Tee	FNPT x FNPT	290 psi	—	1CRG4	230 psi	—	1CRG5	210 psi	—	1CRG6	—	—	—	140 psi	—	1CRG8
	FNPT x FNPT x FNPT	—	—	—	—	—	—	—	—	—	160 psi	—	1CRG7	—	—	—
	Socket x Socket x Socket	—	580 psi	1CRF8	—	470 psi	1CRF9	—	430 psi	1CRG1	—	326 psi	1CRG2	—	270 psi	1CRG3
Union	FNPT x FNPT	290 psi	—	1CRP9	230 psi	—	1CRR1	210 psi	—	1CRR2	160 psi	—	1CRR3	140 psi	—	1CRR4
	Socket x Socket	—	580 psi	1CRP4	—	470 psi	1CRP5	—	430 psi	1CRP6	—	326 psi	1CRP7	—	270 psi	1CRP8
True Union Valves																
Ball Check Valve	Slip Socket	150 psi	150 psi	1CRT1	150 psi	150 psi	1CRT2	150 psi	150 psi	1CRT3	—	—	—	—	—	—
Ball Valve	FNPT	150 psi	150 psi	1CRT7	150 psi	150 psi	1CRT8	150 psi	150 psi	1CRT9	—	—	—	—	—	—

Pipe Size (Nominal)	Max. Pressure	Overall Pipe Length: Close Thread Item No.	2" Item No.	3" Item No.	4" Item No.	5" Item No.	6" Item No.
Nipples, Threaded on Both Ends							
½"	1360 psi	1CRK1	—	1CRK6	1CRK5	1CRK4	—
¾"		1CRK7	1CRK8	1CRL3	—	1CRL1	1CRK9
1"		1CRL4	1CRL5	1CRL9	1CRL8	1CRL7	1CRL6
1½"		1CRN1	1CRN2	1CRN6	1CRN5	1CRN4	1CRN3
2"		1CRP3	—	1CRN7	1CRN8	1CRN9	1CRP1

Pipe Fitting Connection Type	Max. Pressure	Pipe Size - Pipe Fitting: ¾" x ½" Item No.	1" x ½" Item No.	1" x ¾" Item No.	1½" x 1" Item No.	2" x 1" Item No.	2" x 1½" Item No.
Reducing Bushing							
FNPT x MNPT	1360 psi	1CRJ1	1CRJ2	1CRJ3	1CRJ4	1CRJ5	1CRJ6
Slip Socket x Spigot		—	1CRH5	1CRH6	—	1CRH8	—
Spigot x Socket		1CRH4	—	—	1CRH7	—	1CRH9

Pipe Fitting Connection Type	Max. Pressure	Pipe Size - Pipe Fitting: ½" Item No.	¾" Item No.	1" Item No.	1½" Item No.	2" Item No.
Flange						
Socket	1360 psi	1CRR5	1CRR6	1CRR7	1CRR8	1CRR9

Connec. Type	Max. Pressure	Pipe Size: ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	3" Item No.
True-Bloc® Ball Valves								
FNPT x FNPT	150 psi CWP	1CRU1	1CRU2	1CRU3	—	1CRU4	1CRU5	—
Socket x FNPT	150 psi CWP	38AP77	38AP78	38AP79	38AP80	38AP81	38AP82	—
Socket x Socket	150 psi CWP	1CRT4	1CRT5	1CRT6	—	—	—	38AP83

Pipe Size	L	Required Hole Size	CPVC - FNPT x FNPT Item No.	CPVC - FNPT x Socket Item No.	CPVC - Socket x Socket Item No.	PVC - FNPT x FNPT Item No.	PVC - FNPT x Socket Item No.	PVC - Socket x Socket Item No.	Polypropylene - FNPT x FNPT Item No.
EPDM Gasket Material									
½"	2¾"	1⅜"	—	13L964	—	13L945	13L944	—	13L977
½"	3¾"	1⅜"	3CDN8	3CDN7	3CDN9	3CEC4	—	3CEC6	3CDH7
¾"	2⅞"	1⅜"	—	13L965	—	13L947	13L946	—	13L978
¾"	3 57/64"	1⅜"	3CDP2	3CDP1	3CDP3	3CED1	3CEC8	3CED3	3CDH8
1"	2⅞"	1⅞"	—	13L966	—	13L949	13L948	—	13L979
1"	3 57/64"	1⅞"	3CDP5	3CDP4	3CDP6	3CED7	3CED5	3CED9	3CDH9
1¼"	3"	2⅝"	—	—	—	13L951	13L950	—	13L980
1¼"	4"	2 21/32"	3CDP8	3CDP7	3CDP9	3CEE3	3CEE1	3CEE5	3CDJ1
1½"	3"	2⅝"	—	13L967	—	13L953	13L952	—	13L981
1½"	4"	2 21/32"	3CDR2	3CDR1	3CDR3	3CEE9	3CEE7	3CEF2	3CDJ2
2"	3¼"	3¼"	—	13L968	—	13L955	13L954	—	13L982
2"	4¼"	3¼"	3CDR5	3CDR4	3CDR6	3CEF6	3CEF4	3CEF8	3CDJ3
3"	3⅜"	4½"	—	13L969	—	13L957	13L956	—	13L983
3"	4 21/32"	4½"	3CDR8	3CDR7	3CDR9	3CEG3	3CEG1	3CEG5	3CDJ4
4"	5¾"	5¾"	3CDT2	3CDT1	3CDT3	3CEG9	3CEG7	3CEH2	3CDJ5
6"	8"	8 1/16"	3CDT5	3CDT4	3CDT6	3CEH6	3CEH4	3CEH8	3CDJ6
FPM Gasket Material									
½"	2¾"	1⅜"	—	13L958	—	13L931	13L930	—	13L970
½"	3¾"	1⅜"	3CDJ8	3CDJ7	3CDJ9	2WYX5	2WYX2	2WYX9	3CDG7
¾"	2⅞"	1⅜"	—	13L959	—	13L933	13L932	—	13L971
¾"	3 57/64"	1⅜"	3CDK2	3CDK1	3CDK3	2WYY8	2WYY7	2WYZ7	3CDG8
1"	2⅞"	1⅞"	—	13L960	—	13L935	13L934	—	13L972
1"	3 57/64"	1⅞"	3CDK5	3CDK4	3CDK6	2WZA7	2WZA6	2WZA9	3CDG9
1¼"	3"	2⅝"	—	—	—	13L937	13L936	—	13L973
1¼"	4"	2 21/32"	3CDK8	3CDK7	3CDK9	2WZC5	2WZC4	2WZC9	3CDH1
1½"	3"	2⅝"	—	13L961	—	13L939	13L938	—	13L974
1½"	4"	2 21/32"	3CDL2	3CDL1	3CDL3	2WZF5	2WZD9	3CDF3	3CDH2
2"	3¼"	3¼"	—	13L962	—	13L941	13L940	—	13L975
2"	4¼"	3¼"	3CDL5	3CDL4	3CDL6	3CDF5	3CDF4	3CDF6	3CDH3
3"	3⅜"	4½"	—	13L963	—	13L943	13L942	—	13L976
3"	4 21/32"	4½"	3CDL8	3CDL7	3CDL9	3CDF8	3CDF7	3CDF9	3CDH4
4"	5¾"	5¾"	3CDN2	3CDN1	3CDN3	3CDG2	3CDG1	3CDG3	3CDH5
6"	8"	8 1/16"	3CDN5	3CDN4	3CDN6	3CDG5	3CDG4	3CDG6	3CDH6


EPDM Gasket
No. 3CEC4


FPM Gasket
No. 3CDL3

HAYWARD

CPVC, PVC, and Polypropylene Bulkhead Tank Fittings

- Max. pressure: 150 psi

Use as an inlet or outlet for valves, pipes, tanks, and totes. Each fitting consists of a body, gasket, and locking nut with wrench flats. Features left hand threads to ease installation and is available in short and long pattern designs.

CPVC

- Temp. range: 40° to 190°F

PVC

- Temp. range: 40° to 140°F

POLYPROPYLENE

- Temp. range: 40° to 180°F

Polypropylene and Stainless Steel Bulkhead Tank Fittings

BANJO Liquid Handling Products

- Max. pressure: 150 psi
- Temp. range: -20° to 150°F

Use as an inlet or outlet for faucets, pipes, and spigots. Each fitting consists of a body, gasket, and locking nut with wrench flats. Can be mounted in walls, tanks, or panels. EPDM gaskets. FNPT connections.

Pipe Size	Required Hole Size	L	Item No.
316 Stainless Steel			
¾"	1⅜"	1 27/32"	1MKH8
1"	2¼"	2⅜"	1MKJ1
1¼"	2¼"	2⅜"	1MKJ3
1½"	3"	2⅝"	1MKJ5
2"	3"	2⅝"	1MKJ7
3"	4⅜"	2 27/32"	1MKJ9

Pipe Size	Required Hole Size	L	Item No.
Polypropylene			
½"	1⅝"	¼"	1MKH6
¾"	1⅝"	¾"	1MKH7
1"	2¼"	2 9/16"	1MKH9
1¼"	2¼"	¾"	1MKJ2
1½"	3"	1"	1MKJ4
2"	3"	1"	1MKJ6
3"	4½"	1½"	1MKJ8


No. 1MKH6


No. 1MKH8

CPVC and PVC Bulkhead Tank Fittings

SPEARS

- Max. pressure: 150 psi
- Temp. range: 0° to 73°F

Allow free flow of liquids for drum or tank drainage and filling. Can be used as outlets for distribution into a piping system. Neoprene gasket.

Pipe Size	Required Hole Size	Connection Type FNPT x FNPT L	Item No.	FNPT x Socket L	Item No.
CPVC					
½"	1 1/16"	3"	3FMZ9	—	—
½"	1½"	—	—	3"	3FNA6
¾"	1⅝"	3"	3FNA1	3"	3FNA7
1"	2"	3⅛"	3FNA2	3⅛"	3FNA8
1¼"	2⅓"	3 13/32"	3FNA3	3 13/32"	3FNA9
1½"	2⅔"	3 19/32"	3FNA4	3 19/32"	3FNC1
2"	3¼"	4⅛"	3FNA5	4⅛"	3FNC2

Pipe Size	Required Hole Size	Connection Type FNPT x FNPT L	Item No.	FNPT x Socket L	Item No.
PVC					
½"	1½"	3"	3FMY2	3"	3FMY9
¾"	1⅝"	3"	3FMY3	3"	3FMZ1
1"	2"	3⅛"	3FMY4	3⅛"	3FMZ2
1¼"	2⅓"	3 13/32"	3FMY5	3 13/32"	3FMZ3
1½"	2⅔"	3 19/32"	3FMY6	3 19/32"	3FMZ4
2"	3¼"	4⅛"	3FMY7	4⅛"	3FMZ5
3"	4 9/16"	5½"	3FMY8	5½"	3FMZ6
4"	5½"	—	—	5"	3FMZ7
6"	8"	—	—	5"	3FMZ8


No. 3FMY2


No. 3FNA6

LASCO Fittings, Inc.

MUELLER INDUSTRIES

GRAINGER APPROVED


No. 1WJX4


No. 21TF15


No. 22FP27


No. 1WJV5

Compression Couplings and Repair Couplings

Designed for temporary repair of new or existing pipelines. Include metal friction rings, iron nuts, and Buna N rubber gaskets.

GALVANIZED STEEL
- Pressure rating: 125 psi
- Max. temp.: 210°F
- IPS slip connections

PVC COUPLINGS (COLD WATER)
- Pressure rating: 160 psi at 73°F
- For cold water only

CPVC (HOT WATER)
- Max. pressure: 100 psi at 80°F

LOW-LEAD BRASS
- Pressure rating: 125 psi
- Max. temp.: 210°F
- Compression connections

Certified for use in potable water applications.

Item	Pipe Fitting Connection Type	Pipe Fitting Material	L	Pipe Size - Pipe Fitting ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.
Compression Couplings							
Coupling	IPS and CTS	Galvanized Steel	—	1RLW6 **	1RLW7 **	1RLW8 **	—
	Compression	PVC	—	1WJU4 **	1WJU6 **	1WJU8 **	1WJV1 **
	Compression	CPVC	—	1WJW4 **	1WJW7 **	1WJX2 *	—
	Compression	Low Lead Brass	3.84"	—	21TF18 *	—	—
	Compression	Low Lead Brass	3.94"	—	—	21TF16 *	21TF17 *
	Compression	Low Lead Brass	3.98"	—	21TF15 *	—	—
EZ Span Repair Coupling	Solvent x Solvent	PVC	—	1WJX4 *	1WJX6 *	1WJX8 *	1WJY1 *

Pipe Size	Outside Dia.	Material of Construc.	Item No.
Gaskets			
1"	1 9/16"	Styrene Butadiene Rubber	22FP20 †
1½"	2 9/64"	Styrene Butadiene Rubber	22FP21 †
2"	2⅝"	Styrene Butadiene Rubber	22FP16 †
2½"	3¼"	Styrene Butadiene Rubber	22FP19 †
3"	4"	Styrene Butadiene Rubber	22FP17 †
4"	5⅛"	Styrene Butadiene Rubber	22FP18 †

Item	Pipe Fitting Connection Type	Pipe Fitting Material	Pipe Size - Pipe Fitting ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.
Repair Couplings											
Coupling	Compression	PVC	—	—	—	—	1WJV3 **	1WJV5 **	1WJV7 **	1WJV9 **	1WJW2 **
EZ Span Repair Coupling	Solvent x Solvent	PVC	—	—	—	—	1WJY3 *	1WJY5 *	1WJY7 *	1WJY9 *	1WJZ2 *
Repair Coupling	Socket x Socket	PVC	22FP32 †	22FP29 †	22FP27 †	22FP31 †	22FP30 **	22FP28 †	—	—	—

** Mueller brand. † Lasco brand. ** GA brand.*


Double-Bale FNPT Outlet No. 3EUA9


Single-Strap FNPT Outlet No. 3ETZ3

Smith-Blair

Double-Bale and Single-Strap Saddle Clamps

- Max. pressure: 300 psi
- Max. temp.: 180°F

Use to tap into and tee off of existing pipes; fully entrapped gaskets hold tee tightly in place in the tapped cavity. Wide band spread prevents pipe damage when tightening. Ductile iron body with stainless steel straps. Meet ASTM-A536 and AWWA C800; NSF61 Certified.

Pipe Size	Outlet Pipe Size	Double-Bale FNPT Outlet, Buna N Gasket Item No.	Single-Strap FNPT Outlet, Buna N Gasket Item No.	Single-Strap CC Outlet, Nitrile Gasket Item No.
1"	¾"	—	3ETY8	5LGL8
1½"	¾"	3EUA6	3ETY9	5LGL9
	1"	3EUA7	3ETZ1	5LGN0
2"	¾"	3EUA8	3ETZ2	—
	1"	3EUA9	3ETZ3	5LGN2
	1¼"	3EUC1	3ETZ4	5LGN3
	1½"	3EUC2	3ETZ5	—
3"	¾"	3EUC3	3ETZ6	5LGN5
	1"	3EUC4	3ETZ7	5LGN6
	1¼"	3EUC5	3ETZ8	5LGN7
	1½"	3EUC6	3ETZ9	—
4"	¾"	3EUC7	3EUA1	5LGN9
	1"	3EUC8	3EUA2	5LGP0
	1¼"	3EUC9	3EUA3	5LGP1
	1½"	3EUD1	3EUA4	5LGP2
	2"	3EUD2	3EUA5	—
	2½"	3EUD3	—	—

Pipe Size	Outlet Pipe Size	Single-Strap CC Outlet, Nitrile Gasket Item No.	Single-Strap IP Outlet, Nitrile Gasket Item No.
6"	¾"	5LGP4	5LGP3
	1"	5LGP6	5LGP5
	1¼"	5LGP7	—
	1¼"	5LGP8	—
	1½"	5LGR0	5LGP9
	2"	—	5LGR1
8"	¾"	5LGR3	5LGR2
	1"	5LGR5	5LGR4
	1¼"	5LGR7	5LGR6
	1½"	5LGR9	5LGR8
	2"	—	5LGT0
10"	¾"	5LGT2	5LGT1
	1"	5LGT4	5LGT3
	1¼"	5LGT6	5LGT5
	1½"	5LGT8	5LGT7
	2"	—	5LGT9
12"	¾"	5LGU1	5LGU0
	1"	5LGU3	5LGU2
	1¼"	5LGU5	5LGU4
	1½"	5LGU7	5LGU6
	2"	—	5LGU8

Christy's E-Z WELD Oatey WELD-ON IPS CORPORATION

Solvent Cements and Cleaners

Application temp.: 32° to 110°F, (pipe cleaners and purple primers are -10° to 110°F). All meet max. VOC limits SCAQMD method 1168-316A or BAAQMD method 40. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

WARNING: These cements and cleaners are extremely flammable; handle and use them in accordance with manufacturer's instructions.

ROOT-BAN™ DRAIN PIPE ADHESIVE

Bonds pipe connections with a strong, flexible, and leakproof seal that inhibits root intrusion. For use on HDPE, polyethylene, polypropylene, and styrene drain pipe up to 6" dia. Not for use on pressurized piping systems.

SOLVENT CEMENT, RED HOT BLUE GLUE®

Nos. 45RF96 to 45RF98 are a fast-setting, pipe cement for flexible and rigid PVC plastic pipe and fittings in potable water, conduit, drain duct, DWV, and sewer in both pressure or non-pressure applications. Suitable for use in dry, humid, or wet conditions.

738™ HOT 'N FAST, NOS. 3NZW7 AND 3NZW8

For use in wet and dry conditions when quick pressurization is desired.

P-70™ PRIMER, NOS. 6KWU4, 6KWU5, AND 6KWU6

Premium industrial-strength primer for use on Schedule 80 and larger pipe sizes. Excellent in cold weather applications.



Solvent Cement Can Opener
No. 415C76



No. 45RF96



No. 5E525



No. 29FH94



No. 29JA20



No. 6KWR9

For Use With	Type	Size	Material of Construc.	Brand	Item No.
Solvent Cement Can Opener					
Solvent Cements and Primer Cans	Twist	7½"	Stainless Steel	Weld-On	**415C76**

Description	For Use With	Type	Color	8 oz Mfr. Model	8 oz Item No.	16 oz Mfr. Model	16 oz Item No.	32 oz Mfr. Model	32 oz Item No.
Christy's									
Root Ban™ Drain Pipe Adhesive	Non-Pressure Exterior Landscape Drainage Systems	Multipurpose	Green	—	—	34639	**45RF94**	34640	**45RF95**
Solvent Cement, Red Hot	PVC Pipe and Fittings	Medium Bodied	Blue	RH.RHBV.HP36	**45RF96**	RH.RHBV.PT.10	**45RF97**	RH.RHBV.QT6	**45RF98**
Vinyl/PVC Adhesive, Red Hot	Bonds PVC Materials	Multipurpose	Clear	34664	**45RG01**	—	—	—	—
Ez Weld									
ABS Cement	ABS Pipe and Fittings Up To 6 in	—	Black	21002	**5E537**	EZ21003	**5E538**	21004	**3NZD7**
CPVC Cement	CPVC Fittings, CPVC Pipe	—	Orange	20702	**3NZD9**	20703	**3NZE1**	20704	**3NZE2**
Flowguard Gold™	CPVC Pipe and Fittings Up To 2 in	—	Yellow	22702	**1RG63**	22703	**1RG64**	22704	**3NZD8**
Heavy-Duty PVC Cement	PVC Pipes and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 6 in	Medium Bodied	Gray	—	—	20603	**5E529**	—	—
Heavy-Duty PVC Cement	PVC Pipes and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 8 in	Medium Bodied	Gray	20602	**5E528**	—	—	20604	**3NZD5**
Multipurpose Cement	ABS, CPVC, PVC, Schedule 40 and 80 Pipes and Fittings Up To 6 in	—	Amber	—	—	20803	**5E533**	—	—
Multipurpose Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 6 in	—	Amber	20802	**5E532**	—	—	20804	**5E534**
Pipe Cleaner	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	—	Clear	21402	**5E523**	21403	**5E524**	21404	**3NZD4**
Primer	Fittings, Pipes	—	Clear	21102	**3NZE3**	21103	**3NZE4**	21104	**3NZE5**
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	—	Purple	21202	**5E520**	21203	**5E521**	21204	**5E522**
PVC Cement	Schedule 40 PVC Pipe and Fittings Up To 4 in	—	Clear	20502	**5E525**	—	—	20504	**5E527**
PVC Wet/Dry Cement	PVC Pipes and Fittings up to 6 in for Schedule 40 and up to 4 in for Schedule 80	—	Blue	22202	**5E530**	22203	**5E531**	22204	**3NZD6**
PVC Wet/Dry Cement	Schedule 40 PVC Pipe and Fittings Up To 4 in	—	Clear	—	—	20503	**5E526**	—	—
Oatey									
Pipe Cleaner	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, PVC	Clear	30782	**29FH96**	30795	**29FJ02**	—	—
Pipe Cleaner	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Clear	—	—	—	—	30774	**41GP14**
Primer	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	CPVC, PVC	Purple	—	—	30757	**29FJ01**	—	—
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Clear	—	—	—	—	30753	**41GP11**
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Purple	—	—	30770	**41GP12**	30771	**41GP13**
Primer	CPVC Pipe and Fittings, PVC Pipe and Fittings	CPVC, PVC	Purple	30756	**29FH95**	—	—	—	—
Solvent Cement	ABS Fittings, ABS Pipe	ABS, Medium Bodied	Black	30889	**29FH94**	30892	**49K211**	—	—
Solvent Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, Medium Bodied, PVC	Clear	—	—	30834	**49K209**	—	—
Solvent Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, Medium Bodied, PVC	Milky-Clear	30821	**29FH91**	—	—	—	—
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Extra Heavy Bodied, Hot	Orange	—	—	32167	**20CM26**	—	—
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Medium Bodied	Orange	31129	**29FH93**	31130	**49K213**	31131	**41GP21**
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Low VOC, Medium Bodied	Yellow	31911	**29FH92**	31912	**20CM23**	—	—
Solvent Cement	PVC Pipe and Fittings	Hot, Medium Bodied, PVC	Blue	32161	**20CM24**	32162	**20CM25**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied, PVC	Blue	30891	**29FH90**	30893	**49K212**	—	—
Solvent Cement	PVC Pipe and Fittings	Heavy Bodied, PVC	Clear	30863	**29FH97**	30876	**29FJ04**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied, PVC	Clear	31018	**29FH89**	31019	**29FH99**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied All-Weather, PVC	Clear	—	—	31132	**29FJ03**	—	—
Solvent Cement	PVC Pipe and Fittings	PVC, Regular Bodied	Clear	31013	**29FH88**	31014	**29FH98**	—	—
Solvent Cement	PVC Pipe and Fittings	Heavy Bodied, PVC	Gray	31094	**41GP15**	—	—	—	—
Weld-On									
700™ PVC	PVC Pipe	Regular Bodied	Clear	13970	**6KWR3**	13969	**6KWR4**	13968	**6KWR5**
705™ PVC	PVC Pipe	Medium Bodied	Clear	13973	**6KWT8**	13972	**6KWT9**	13971	**6KWU0**
711™ PVC	PVC Pipe	Heavy Bodied	Gray	13976	**6KWU1**	13975	**6KWU2**	13974	**6KWU3**
714™ CPVC	CPVC Pipe	CPVC	Orange	13979	**6KWT5**	13978	**6KWT6**	13977	**6KWT7**
724™ CPVC	Joining CPVC and PVC Industrial Pipes Carrying Corrosive Chemicals	CPVC	Gray	—	—	14184	**29JA20**	—	—
738™ Hot 'N Fast	PVC Pipe and Fittings	PVC	Blue	13987	**3NZW7**	13986	**3NZW8**	—	—
790™ Multipurpose Cement	PVC Pipe	Multi Purpose	Clear	13990	**6KWR6**	13989	**6KWR7**	13988	**6KWR8**
P-64™ Primer/Conditioner	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13999	**6KWX1**	13998	**6KWX2**	13997	**6KWX3**
P-68™ Primer	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13993	**6KWR9**	13992	**6KWT0**	13991	**6KWT1**
P-70™ Primer	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13996	**6KWU4**	13995	**6KWU5**	13994	**6KWU6**

Sealant, Pipe Dope, and Plumber's Putty

Note: POLY-TEMP® and SLICKON® are registered trademarks of Anti-Seize Technology.

Gasket Sealant—Forms a flexible seal which will not harden, crack, crumble, or shrink.

Leak Detector—For use on pressurized plumbing and gas lines.

Megaloc® Thread Sealant—Will not harden, crack or become brittle; requires no cure time. Max. pressure: 12,000 psi (liquid).

AST-PPD™ Plumber's Pipe Dope—Nontoxic, no lead or silicone. Use with all metal pipe and valves. Max. pressure: 1000 psi (gas); 2000 psi (liquid).



No. 4X222

Pipe Thread Sealant (Hercules)—Won't harden or separate. Nonflammable and requires no cure time. Max pressure: 12,000 psi (liquid).

SLICKON® GTS GOLD™ Sealant w/PTFE—Nontoxic, noncuring, solvent-free paste is suitable for use with potable water. FBC™ System compatible.

SOF-SET™ Pipe Sealant—Use on metal, PVC, and ABS pipe for water, steam, LP and natural gas, refrigerants, ammonia, fuel oils, and hydraulic oil. Max. pressure: 10,000 psi (liquid); 2600 psi (gas).

TFE™ Pipe Thread Sealant w/PTFE—Meets FDA requirements. NSF registered and UL Classified for fire protection sprinkler systems. Max. pressure: 10,000 psi (liquid); 2000 psi (gas).

TUF-SET™ Pipe Thread Sealant—Sets firm; resists vibration, shock, and thermal expansion; allows disassembly. Nontoxic and corrosion-resistant. Use with potable water, all common refrigerants, natural gas, propane, and gasoline. Max. pressure: 10,000 psi (liquid); 2600 psi (gas).

AST-PUT™ Plumber's Putty—Mold and mildew resistant. Meets Fed. Spec. TT-P-1536A.

Pro Dope® Thread Sealant—For use with air, brine, diluted acids, gas, hydronic heating, natural gas, steam, and sprinkler systems. Max pressure: 250 psi (liquid).

Description	Size	Brand	Item No.
Gasket Sealant			
All Purpose	4 oz., Brush Top Can	Hercules	**20CM10**
All Purpose, High Performance		Hercules	**20CM13**
Leak Detector			
Leak Detector, Blue	32 oz., Spray Bottle	Hercules	**41GP16**
Megaloc® Thread Sealant			
Multi-Purpose Sealant	8 oz., Brush Top Can	Hercules	**20CM14**
	16 oz., Brush Top Can	Hercules	**20CM15**
Pipe Thread Sealant			
AST-PPD™ Plumber's Pipe Dope	8 oz., Brush Top Can	Anti-Seize Technology	**4UJ94**
	16 oz., Brush Top Can	Anti-Seize Technology	**4UJ95**
Pipe Thread Sealant	4 oz., Brush Top Can	Hercules	**20CM11**
	8 oz., Brush Top Can	Hercules	**20CM12**
SLICKON® GTS GOLD™ w/PTFE	3 oz., Tube	Anti-Seize Technology	**3PDL6**
	8 oz., Brush Top Can	Anti-Seize Technology	**2TE50**
	16 oz., Brush Top Can	Anti-Seize Technology	**2TE51**
SOF-SET™ Pipe Sealant	8 oz., Brush Top Can	Anti-Seize Technology	**4UK03**
	16 oz., Brush Top Can	Anti-Seize Technology	**4UK04**
TFE™ Pipe Thread Sealant w/PTFE	3 oz., Tube	Anti-Seize Technology	**5X998**
	8 oz., Brush Top Can	Anti-Seize Technology	**4X222**
	16 oz., Brush Top Can	Anti-Seize Technology	**4UJ90**
TUF-SET™ Pipe Thread Sealant	3 oz., Tube	Anti-Seize Technology	**2KFZ6**
	8 oz., Brush Top Can	Anti-Seize Technology	**2KFZ7**
	16 oz., Brush Top Can	Anti-Seize Technology	**2KFZ8**
Plumbers Putty			
AST-PUT™ Plumber's Putty	14 oz., Tub	Anti-Seize Technology	**4UJ96**
TTP-1536A Plumbers Putty		Oatey	**49K215**
Pro Dope® Thread Sealant			
Pro Dope® Thread Sealant	5 gal., Pail	Hercules	**20CM09**
	6 lb., Pail	Hercules	**20CM08**
	8 oz., Brush Top Can	Hercules	**20CM06**
	16 oz., Brush Top Can	Hercules	**20CM07**

Pipe Thread Sealant Tapes and Valve Stem Packing



No. 3AB55

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Low-Density Thread Sealant Tape—Virgin PTFE, compatible with most pipe materials, and forms a permanent seal for the life of the connection.

POLY-TEMP® Antiseize Thread Seal Tape—Eases assembly/disassembly of threaded fasteners, connections, and helps prevent seizing and galling. Nos. 2TE46 and 2TE47 are non-toxic and for use in food handling applications.

POLY-TEMP® Gas Line Sealant Tape—Extra-dense thread sealant for use on most metal or plastic pipe connections.

POLY-TEMP® Thread Sealant Tape—No. 2TE52 is for use in sealing and preventing seizing in stainless steel and stainless steel alloy pipe threads.

POLY-TEMP® VSP Valve Stem Packing—Inert to most chemicals and withstands vibration and severe corrosion. Can conform to worn stuffing boxes and valve stems. Max. pressure: 500 psi.

Material	W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
Low-Density Thread Sealant Tape							
-400° to 550°F							
PTFE	½"	260"	0-300	0-10,000	White	0.35 to 0.5sg	**3PDL5**
	½"	520"	0-300	0-10,000	White	0.35 to 0.5sg	**3AB55**
	¾"	520"	0-300	0-10,000	White	0.35 to 0.5sg	**3AB56**
	1"	520"	0-100	0-10,000	White	0.35 to 0.5sg	**34D503**
POLY-TEMP® Antiseize Thread Seal Tape							
-450° to 550°F							
Nickel Filled with PTFE	½"	600"	0-300	0-10,000	Nickel	1.2 to 1.5sg	**2TE44**
	¾"	600"	0-300	0-10,000	Nickel	1.2 to 1.5sg	**2TE45**

Material	W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
-400° to 550°F							
Copper Filled with PTFE	½"	600"	0-300	0-10,000	Copper	1.2 to 1.5sg	**2TE42**
Ceramic Filled with PTFE	½"	600"	0-300	0-10,000	Cream	1.2 to 1.5sg	**2TE46**
Copper Filled with PTFE	¾"	600"	0-300	0-10,000	Copper	1.2 to 1.5sg	**2TE43**
Ceramic Filled with PTFE	¾"	600"	0-300	0-10,000	Cream	1.2 to 1.5sg	**2TE47**
POLY-TEMP® Gas Line Sealant Tape							
PTFE	½"	260"	0-2250	0-10,000	Yellow	1.2 to 1.5sg	**4UK05**
	½"	520"	0-2250	0-10,000	Yellow	1.2 to 1.5sg	**4UK06**
	¾"	520"	0-2250	0-10,000	Yellow	1.2 to 1.5sg	**4UK07**
POLY-TEMP® Thread Sealant Tape							
Nickel Filled with PTFE	½"	260"	0-300	0-10,000	Nickel	1.2 to 1.5sg	**2TE52**
PTFE	½"	260"	0-2000	0-10,000	Pink	1.2 to 1.5sg	**2TE53**
	½"	260"	0-2000	0-10,000	White	0.7 to 0.8sg	**4X227**
	½"	260"	0-2000	0-10,000	White	1.2 to 1.5sg	**3PDK9**
	½"	520"	0-2000	0-10,000	White	0.7 to 0.8sg	**4X543**
	½"	520"	0-2000	0-10,000	White	0.9 to 1.1sg	**3PDL1**
	½"	520"	0-2000	0-10,000	White	1.2 to 1.5sg	**3PDL2**
	¾"	520"	0-2000	0-10,000	White	0.7 to 0.8sg	**5X584**
	¾"	520"	0-2000	0-10,000	White	0.9 to 1.1sg	**3PDL3**
	¾"	520"	0-2000	0-10,000	White	1.2 to 1.5sg	**3PDL4**
	1"	520"	0-2000	0-10,000	White	1.2 to 1.5sg	**34D502**

Body Material	Size	Temp. Range	Item No.
POLY-TEMP® VSP Valve Stem Packing			
PTFE	3/32 x 20 ft.	-400° to 500°F	**4X773**
PTFE	5/32 x 120"	-400° to 500°F	**5X585**
PTFE	7/32 x 84"	-400° to 500°F	**5X720**

GRAINGER APPROVED

Joint Sealant, Thread Sealant, and Valve Stem Packing Tapes



No. 21TF50



No. 21TF20

▪ PTFE material

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
Joint Sealant Tape						
-450° to 600°F						
3/8"	300"	0-3000	0-3000	White	—	**21TF48**
-400° to 600°F						
¼"	600"	0-3000	0-3000	White	—	**21TF47**
½"	180"	0-3000	0-3000	White	—	**21TF49**
¾"	180"	0-3000	0-3000	White	—	**21TF50**
Thread Sealant Tape						
-400° to 550°F						
¼"	520"	0-100	0-10,000	White	0.7 to 0.8sg	**21TF28**
½"	260"	0-300	0-10,000	White	0.35 to 0.5sg	**21TF19**
	260"	0-300	0-300	Yellow	1.2 to 1.5sg	**21TF22**
	260"	0-2000	0-10,000	Gray	0.9 to 1.1sg	**21TF32**
	260"	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF27**
	260"	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF34**
	520"	0-300	0-10,000	White	0.35 to 0.5sg	**21TF20**
	520"	0-2000	0-10,000	White	0.9 to 1.1sg	**21TF25**
	520"	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF29**
	520"	0-2000	0-10,000	Yellow	1.2 to 1.5sg	**21TF23**

Joint Sealant Tape—General purpose economy grade sealant.

Thread Sealant Tape—Nos. 21TF29 and 21TF30 are general purpose, economy grade sealant tape. Nos. 21TF32, 21TF40, and 21TF41 are for use with stainless steel threads.

W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
¾"	520"	0-300	0-300	White	0.35 to 0.5sg	**21TF21**
	520"	0-2000	0-10,000	White	0.9 to 1.1sg	**21TF26**
	520"	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF30**
	520"	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF36**
1 ½"	520"	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF37**
-400° to 1800°F						
½"	600"	0-2250	0-2250	Copper	0.9 to 1.1sg	**21TF38**
-400° to 2400°F						
½"	600"	0-2250	0-2250	Yellow	1.2 to 1.5sg	**21TF42**
-400° to 2600°F						
½"	600"	0-2250	0-2250	Nickel	0.9 to 1.1sg	**21TF40**
¾"	600"	0-2250	0-2250	Nickel	0.9 to 1.1sg	**21TF41**
Valve Packing Tape						
-400° to 500°F						
3/32"	240"	0-500	0-2250	White	—	**21TF44**
5/32"	120"	0-500	0-2250	White	—	**21TF45**

Fernco ★ GA GRAINGER APPROVED

Flexible Fittings

- Max. pressure: 4.3 psi
- Max. temp.: 140°F

PVC couplings flex to fit for easy hookup; resist corrosion, rot, and degradation from sunlight and chemicals. To quickly install No Hub couplings, use cordless No Hub Coupling Drill Driver No. 5HXN2, sold on page 684.

Description	Pipe Size - Pipe Fitting	Fitting Length	Brand	Mfr. Model	Item No.
Corrugated Pipe Couplings 	3" x 3"	4"	Fernco	1070-33	2ZJ89
	4" x 4"	4"	Fernco	1070-44	2ZJ90
	6" x 6"	6"	Fernco	1070-66	3HDD2
Drain and Trap Connectors 	1¼"	2¼"	Fernco	TC-150	2ZU14
	1 29/64" x 1 61/64"	2¼"	Fernco	DTC-150	2ZU12
	2" x 1¼"	2¼"	Fernco	DTC-215	2ZU13
Flexible P-Traps 	1¼"	9 33/64"	Fernco	FT-150	2ZU11
Flexible Wye Tap Saddles 	4"	12"	Fernco	TSW-4	3HDF3
	6"	15 9/64"	Fernco	TSW-6	3HDF4
No Hub Couplings 	1½"	2⅛"	GA	DXNH156-150	2ZU19
	2"	2⅛"	GA	DXNH156-22	2ZU20
	3"	2⅛"	GA	DXNH156-33	2ZU21
	4"	2⅛"	GA	DXNH156-44	2ZU22
	6"	3"	GA	DXNH156-66	3HDC2
Plastic Socket Couplings Plastic Socket to Plastic Pipe 	2 45/64" x 2 13/32"	3 29/32"	Fernco	1059-22	3HDC4
	3" x 3"	4"	Fernco	1059-33	3HDC5
	4" x 4"	4"	Fernco	1059-44	3HDC6
Plastic Socket Couplings Plastic Socket to Plastic Socket 	1½" x 1½"	4"	Fernco	1060-150	3HDC7
	2" x 2"	4"	Fernco	1060-22	3HDC8
	3" x 3"	4"	Fernco	1060-33	3HDC9
	4" x 4"	4"	Fernco	1060-44	3HDD1
Proflex™ Shielded Couplings for Cast Iron, Plastic, or Steel to Copper 	1½"	2⅛"	Fernco	3001-150	2ZJ87
	1½" x 1¼"	2⅛"	Fernco	3001-1125	3HDE1
	2"	2⅛"	Fernco	3001-22	2ZJ88
	2" x 1½"	2⅛"	Fernco	3001-215	3HDE2
	3" x 3"	2⅛"	Fernco	3001-33	3HDE3
	4" x 4"	2⅛"	Fernco	3001-44	3HDE5
Proflex™ Shielded Couplings for Cast Iron to Plastic or Steel 	1½"	2⅛"	Fernco	3000-150	2ZJ83
	2"	2⅛"	Fernco	3000-22	2ZJ84
	2" x 1½"	2⅛"	Fernco	3000-215	3HDD4
	3"	2⅛"	Fernco	3000-33	2ZJ85
	4"	2⅛"	Fernco	3000-44	2ZJ86
	6"	3"	Fernco	3000-66	3HDD7
	8"	3 13/16"	Fernco	3000-88	3HDD8
Qwik Caps 	1½"	1⅛"	Fernco	QC-101	2ZU15
	2"	1⅛"	Fernco	QC-102	2ZU16
	3"	1⅛"	Fernco	QC-103	2ZU17
	4"	1⅛"	Fernco	QC-104	2ZU18
	5"	2"	Fernco	QC-105	3HDA9
	6"	2"	Fernco	QC-106	3HDC1
Qwik Ells - 90° 	1½"	4 9/64"	Fernco	QL-150	2ZJ97
	2"	5"	Fernco	QL-200	2ZJ98
	3"	7 5/64"	Fernco	QL-300	2ZJ99
	4"	9 5/64"	Fernco	QL-400	2ZU10
Qwik Tees - 90° 	1½"	5 33/64"	Fernco	QT-150	2ZJ93
	2"	7 33/64"	Fernco	QT-200	2ZJ94
	3"	10"	Fernco	QT-300	2ZJ95
	4"	13 9/64"	Fernco	QT-400	2ZJ96
Reducing Flexible Couplings for Cast Iron, Plastic, Copper, Steel, or Lead to Cast Iron, Plastic, Copper, Steel, or Lead 	1½" x 1¼"	3½"	Fernco	1056-150/125	4P004
	2" x 1½"	3½"	Fernco	1056-215	4P006
	3" x 1½"	4"	Fernco	1056-315	3HCY6
	3" x 2"	4"	Fernco	1056-32	4P008
	4" x 1½"	4"	Fernco	1056-415	3HCY7
	4" x 2"	4"	Fernco	1056-42	3HCY8
	4" x 3"	4"	Fernco	1056-43	4P010
	5" x 3"	4"	Fernco	1056-53	3HCZ1
	5" x 4"	4"	Fernco	1056-54	3HCZ2
	5" x 5"	4"	Fernco	1056-55	3HCZ3
	6" x 2"	6"	Fernco	1056-62	3HCZ4
	6" x 3"	6"	Fernco	1056-63	3HCZ5
	6" x 4"	6"	Fernco	1056-64	3HCZ6
	8" x 4"	6"	Fernco	1056-84	3HCZ9
	8" x 6"	6"	Fernco	1056-86	3HDA1
	10" x 8"	6"	Fernco	1056-10-8	3HDA3
Straight Flexible Couplings for Cast Iron, Plastic, Copper, Steel, or Lead to Cast Iron, Plastic, Copper, Steel, or Lead 	¾" x ¾"	2⅜"	Fernco	1056-075	2ZJ91
	1" x 1"	2⅜"	Fernco	1056-100	2ZJ92
	1¼" x 1¼"	3½"	Fernco	1056-125	4P003
	1½" x 1½"	3½"	Fernco	1056-150	4P005
	2" x 2"	3½"	Fernco	1056-22	4P007
	3" x 3"	4"	Fernco	1056-33	4P009
	4" x 4"	4"	Fernco	1056-44	4P011
	6" x 6"	6"	Fernco	1056-66	3HCZ8
	8" x 8"	6"	Fernco	1056-88	3HDA2
	10" x 10"	6"	Fernco	1056-1010	3HDA4
	12" x 12"	6⅜"	Fernco	1056-1212	3HDA6

No. 2KUT5





No. 3HCY4

Fernco

Pow-R™ Pipe Repair Products

- Nos. 2KUT3 to 2KUT5 are EPA-approved for use on drinking water lines
- Gray color

Hand-workable epoxy cures as hard as steel to create permanent, industrial-strength repairs. Simply apply putty, soak wrap, wrap pipe, and tighten for about 15 min. Holds tight, even under water. Kits include gloves and instructions. For use on fluid-bearing pipes made from copper, plastics, PVC, rubber, fiberglass, galvanized, concrete, and more.

Description	Size	Full Cure	Line Pressure	Performance Temp. Range	Item No.
Pow-R Wrap™ Pipe Repair System					
For Pipe Up to 1" Dia.	2" x 4 ft.	30 min.	600 psi	Up to 425°F	2KUT3
For Pipe 1¼ to 3" Dia.	3" x 11 ft.	30 min.	600 psi	Up to 425°F	2KUT4
For Pipe 3 to 6" Dia.	4" x 21 ft.	30 min.	600 psi	Up to 425°F	2KUT5
Pow-R Pack® Universal Plumbing, Pipe and Hose Repair Kit					
For Pipe Up to 1" Dia.	2" x 4 ft. Wrap, 4" x 6" Patch	1 hr.	600 psi (Wrap),100 psi (Patch)	Up to 425°F	3HCY4

FiberFix™ now you can fix anything



No. 36VT52

FiberFix™ Fiberglass Repair Wrap

- For indoor or outdoor use

High-strength fibers and an innovative resin for quick and easy repairs. Just activate the material in water, then wrap it tightly around the broken object. Repair Wrap Nos. 36VT52 to 36VT54 and 429J31 help seal water leaks in hoses or small pipes. Heat Wrap No. 36VT55 can repair leaks in hot water pipes. Repair Wrap No. 429J31 and Pipe Repair Kit No. 445L01 can cure as strong as steel in just 5 min. For a list of the accessories included with each kit, go to Grainger.com® and search for the Item number.



No. 36VT55

Description	Size	Full Cure	Line Pressure	Performance Temp. Range	Color	Item No.
Repair Wrap	1" x 40"	10 to 15 minutes	60 psi	-30° to 300°F	Black	36VT52
	2" x 50"	10 to 15 minutes		-30° to 300°F	Black	36VT53
	2" x 50"	1 hr.	200 psi	-30° to 300°F	Black	429J31
	4" x 60"	10 to 15 minutes	60 psi	-30° to 300°F	Black	36VT54
Heat Wrap	2" x 70"	1 to 5 hours		Up to 850°F	Sienna Brown	36VT55
Pipe Repair Kit					Clear	445L01

FIND MORE ONLINE

Can't find it here?
Go to **Grainger.com®** today to see our full selection of over **1.7 million products** and the **services and solutions** to help you get it done!

TEST-TITE IPS CORPORATION | CHERNE®

Pneumatic Test Plugs

Note: Always block plugs when conducting air tests. Consult manufacturers' safety instructions before installing product.

Cherne® Big Mouth® Flow-Through Plugs—Feature an interchangeable bypass flange that allows the same plug to be used for different applications. Removable tire valve allows for easy replacement.

Cherne® Muni Ball Plug, No. 53MH31—Has a full bypass so that you can both test and monitor your piping system. Ideal for use in the installation and repair of commercial or residential piping applications, including sanitary and storm sewer pipe systems.

Cherne® Test Ball Plug, No. 53MH28—Model features Rupture Disc design that helps prevent over inflation of the pneumatic plug. For pressure testing and blocking of residential drain, waste, and vent (DWV) systems during installation and repair of municipal infrastructure including storm and sanitary sewer piping systems.

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
Cherne® Single- and Multi-Size Test Ball® Plugs, Natural Rubber with 12" Removable Zinc-Plated Steel Chain and Over-Sized Ring					
¾ to 1¼"	0.75"	1.31"	40 ft. of Head	45 psi	2HCD7
1¼ to 1½"	1.11"	1.75"	30 ft. of Head	40 psi	1VNE8
1¼ to 2"	1.25"	2.10"	40 ft. of Head	40 psi	5NRV6
2"	1.90"	2.25"	30 ft. of Head	40 psi	1VNE9
2 to 3"	1.90"	3.10"	40 ft. of Head	35 psi	5NRV7
2½"	2.34"	2.75"	30 ft. of Head	35 psi	3NVY8
3"	2.77"	3.25"	30 ft. of Head	35 psi	1VNE7
3 to 4"	2.80"	4.10"	40 ft. of Head	40 psi	5NRV8
4"	3.41"	4.25"	30 ft. of Head	30 psi	1VNF1
5"	4.60"	5.25"	30 ft. of Head	30 psi	1VNF2
6 to 8"	5.25"	8.25"	40 ft. of Head	35 psi	5NRT9
6"	5.44"	6.25"	30 ft. of Head	30 psi	1VNF3
8 to 12"	7.00"	12.25"	25 ft. of Head	20 psi	5NRT8
8"	7.00"	8.25"	40 ft. of Head	17 psi	3NVY9
10"	9.00"	10.25"	40 ft. of Head	25 psi	3NVZ1
12"	10.50"	12.25"	40 ft. of Head	25 psi	3NVZ2
Cherne® MS2® Long Test-Ball® Plugs, Natural Rubber with Nylon Strap and Handle, and Integrated Relief Valve for Waste Stack Testing					
2 to 3"	1.75"	3.25"	30 ft. of Head	40 psi	2HCE4
3 to 4"	2.75"	4.25"	30 ft. of Head	40 psi	2HCE5
4 to 6"	3.50"	6.25"	30 ft. of Head	30 psi	3NVY4
Test-Tite® Test Plug, Rubber, for DWV Plumbing Systems and Seal for Pipe					
1½"	1.49"	1.50"	13 psi	45 psi	442X98
2"	2.05"	2"	13 psi	40 psi	442X99
3"	3.07"	3"	13 psi	35 psi	442Y01
4"	4.00"	4"	13 psi	30 psi	442Y02
Test-Tite® Multi-Size Test Plugs, Rubber, for DWV Systems To Seal Round And Out Of Round Pipe					
1¼ to 2"	1.18"	2.25"	30 ft. of Head	40 psi	3EJK7
3 to 4"	2.63"	4.25"	30 ft. of Head	35 psi	3EJK8
4 to 6"	3.41"	6.25"	30 ft. of Head	30 psi	3EJK9
4 to 8"	3.70"	8.25"	30 ft. of Head	30 psi	3EJL1
8 to 12"	7.09"	12.25"	40 ft. of Head	30 psi	3EJL2
10 to 16"	8.92"	16.25"	40 ft. of Head	30 psi	3EJL3
12 to 24"	11.95"	24.25"	12 ft. of Head	21 psi	3EJL4

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
Cherne® Big-Mouth® Flow-Through Plugs, Rubber and Aluminum, Equipped with Removable ⅜" Eye Bolt, for Gravity Bypassing or Bypass Pumping					
8 to 10"	7.25"	10.25"	25 ft. of Head	35 psi	5NRW2
12 to 15"	10.62"	15.25"	25 ft. of Head	30 psi	5NRW3
Cherne® Single- and Multi-Size Muni-Ball® Plugs, Natural Rubber, for Blocking Sewer Flow or Conducting Sewer Air Tests					
1½"	1.49"	1.88"	50 ft. of Head	40 psi	2HCD3
2"	1.88"	2.25"	50 ft. of Head	40 psi	2HCD4
4"	3.25"	4.25"	50 ft. of Head	40 psi	1VNH2
6"	4.50"	6.25"	30 ft. of Head	35 psi	2HCD5
8"	7.00"	8.25"	30 ft. of Head	35 psi	2HCD6
10"	9.00"	10.25"	30 ft. of Head	35 psi	3NVZ4
12"	10.50"	12.25"	30 ft. of Head	35 psi	3NVZ5
15 to 16"	14.00"	16.25"	30 ft. of Head	35 psi	3NVZ6
18"	17.50"	19.5"	30 ft. of Head	25 psi	3NVZ7
21"	18.85"	21.38"	30 ft. of Head	25 psi	3NVZ8
24 to 48"	20.50"	50"	23 ft. of Head	22 psi	5NRW0
Cherne® Ball Plug, Natural Rubber, for Block Water Flow or Back Plug for Sewer Air Testing					
4 3⁹⁄₆₄"	3.97"	6"	40 ft. of Head	—	53MH31
Cherne® Test Ball Plug, Zinc Plated Chain, Rubber, for Block Water Flow or Back Plug for Sewer Air Testing					
4 3⁹⁄₆₄"	3.97"	6"	40 ft. of Head	—	53MH28
Cherne® Clean-Seal® Plugs, Natural Rubber Body with High-Impact ABS Threads, for Stack Testing of DWV Plumbing Systems					
1½"	—		30 ft. of Head	30 psi	3NVZ3
2"	—		30 ft. of Head	35 psi	2HCE1
3"	—		30 ft. of Head	35 psi	2HCE2
4"	—		30 ft. of Head	35 psi	2HCE3

Description	Item No.
Cherne® Accessories	
3-ft. Air Test Ext. Hose, 3⁄16" ID	3NVY5
5-ft. Air Test Ext. Hose, 3⁄16" ID	1VNH4
10-ft. Air Test Ext. Hose, 3⁄16" ID	3NVY6
20-ft. Air Test Ext. Hose, 3⁄16" ID	3NVY7
6-ft. Remo Pole	5NRV1
Air Loc Fan	53MH29
Air-Loc Hi-Flow Vacuum Generator 600	53MH30
Air-Loc Male NPT Plug Kit	53MH32
Air Max Pro Test Pump, Large Barrel	5NRU9
Air Max Test Pump	1VNH3
Jet-Ball Cleaning Ball, Eye Bolts At Each End, 10L	53MH40
Jet-Ball Cleaning Ball, Eye Bolts At Each End, 6L	53MH39
Remo Pole Adapter (1¼" x MNPT)	5NRV2
Rupture Disc for TB/AL Plugs	53MH38
Test Ball Plug	52RW16
Test Gauge 0-100 psi Press. Range	2HCE8
Test Gauge 0-15 psi Press. Range	2HCE9
Test Gauge 0-30 psi Press. Range	2HCE6
Test Gauge 0-60 psi Press. Range	2HCE7
Test Pad Replacement	53MH44
Test Pump	53MH35
Vacuum Test Gauge	53MH42

**** For max. back air pressure, divide max. ft. of head by 2.31.***

SMALL PART, BIG PROBLEM

Your job just got easier. Whether it's routine maintenance or an emergency repair, our repair parts center has the parts you need to get back on the job.

> Get started today at **grainger.com/repairparts**

Mechanical Test Plugs

Note: Always block plugs when conducting air tests.

TEST-TITE IPS CORPORATION

CHERNE®

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
Cherne® Econ-O-Grip® Plugs, Galvanized Steel				
1½"	1.44"	1.65"	5 ft. of Head	1VNG4
2"	1.96"	2.25"	5 ft. of Head	1VNG5
3"	2.86"	3.25"	5 ft. of Head	1VNG6
4"	3.78"	4.50"	5 ft. of Head	1VNG7
5"	4.62"	5.30"	2 ft. of Head	1VNG8
6"	5.62"	6.40"	2 ft. of Head	1VNG9
Cherne®, Petro Econ-O-Grip®, Stainless Steel and Chemical-Resistant Nitrile Rubber				
1½"	1.44"	1.65"	5 ft. of Head	3NVX7
2"	1.96"	2.25"	5 ft. of Head	3NVX8
3"	2.86"	3.25"	5 ft. of Head	3NVX9
4"	3.78"	4.30"	5 ft. of Head	3NVY1
5"	4.62"	5.30"	2 ft. of Head	3NVY2
6"	5.62"	6.30"	2 ft. of Head	3NVY3
Cherne® Sure-Grip Plugs, Polypropylene				
1½"	1.48"	1.63"	50 ft. of Head	3NVU4
2"	1.89"	2.09"	50 ft. of Head	3NVU5
3"	2.89"	3.09"	30 ft. of Head	3NVU6
4"	3.87"	4.09"	30 ft. of Head	3NVU7
Cherne® Kwik 'N Sure® Plugs, Natural Rubber				
0.39"	0.38"	.43"	428 ft. of Head	5NRV0
½"	0.50"	0.56"	415 ft. of Head	2HCF4
¾"	0.72"	0.87"	415 ft. of Head	2HCF3
1"	0.86"	1.02"	92 ft. of Head	2HCF1
1¼"	1.24"	1.43"	258 ft. of Head	2HCF5
1½"	1.43"	1.53"	203 ft. of Head	2HCF2
2"	1.73"	2.06"	258 ft. of Head	2HCF6
2½"	2.30"	2.78"	166 ft. of Head	2HCF7
3"	2.73"	3.20"	65 ft. of Head	3NVU8
4"	3.72"	4.50"	55 ft. of Head	3NVU9
5"	4.80"	5.19"	18 ft. of Head	3NVX1
Test-Tite® T-Cones Test Plugs, Plastic				
1½"	1.48"	1.65"	50 ft. of Head	3EJN1
2"	1.90"	2.17"	50 ft. of Head	3EJN2
3"	2.80"	3.10"	50 ft. of Head	3EJN3
4"	3.78"	4.06"	50 ft. of Head	3EJN4
6"	5.77"	6.08"	30 ft. of Head	3EJN5
8"	7.76"	8.03"	30 ft. of Head	3EJN6
Cherne® Original Gripper® Plugs: End-of-Pipe, Glass Reinforced ABS Plastic with Natural Rubber O-Ring				
1½"	1.48"	1.65"	40 ft. of Head	1VNF4
2"	1.90"	2.17"	40 ft. of Head	1VNF5
3"	2.80"	3.10"	40 ft. of Head	1VNF6
4"	3.80"	4.06"	40 ft. of Head	1VNF7
6"	5.77"	6.08"	40 ft. of Head	1VNG1
8"	7.70"	8.03"	40 ft. of Head	2HCD8

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
Cherne® Original Gripper® Plugs: Inside-of-Pipe, Glass Reinforced ABS Plastic with Natural Rubber O-Ring				
4"	3.80"	4.06"	40 ft. of Head	1VNF8
6"	5.77"	6.08"	40 ft. of Head	1VNF9
8"	7.70"	8.03"	40 ft. of Head	2HCD9
Cherne® Hub-Fit Gripper® Plugs, Glass Reinforced ABS Plastic with Natural Rubber O-Ring				
2"	2.25"	2.45"	30 ft. of Head	3NVX4
3"	3.44"	3.53"	30 ft. of Head	3NVX5
4"	4.41"	4.53"	30 ft. of Head	3NVX6
Cherne® Clean-Out Gripper® Plugs (with American Threads), Glass Reinforced ABS Plastic with Natural Rubber O-Ring				
2"	2.16"	2.20"	40 ft. of Head	3NVX2
3"	3.23"	3.75"	40 ft. of Head	1VNG2
3½"	3.78"	4.25"	40 ft. of Head	3NVX3
4"	4.22"	4.60"	40 ft. of Head	1VNG3
Cherne® Monitor-Well Locking Plugs, Chemical and Petroleum-Resistant Estaloc™ Plastic with Nitrile O-Ring, to Seal all Schedule 40 Pipe†				
1 to 1 ¼"	1.00"	1.38"	15 ft. of Head	3NVU3
2"	1.90"	2.31"	15 ft. of Head	3NVU2
3"	2.80"	3.10"	15 ft. of Head	3NVU1
4"	3.80"	4.38"	15 ft. of Head	3NVT9
6"	5.77"	6.08"	15 ft. of Head	3NVT8
8"	7.76"	8.03"	15 ft. of Head	5NRW7
Cherne® T-Handle Aluminum Gripper® Plugs (Nonbypass), Heavy-Duty Aluminum with Neoprene O-Ring				
8"	7.70"	8.30"	40 ft. of Head	3NWA7
10"	9.80"	10.30"	40 ft. of Head	3NWA8
12"	11.70"	12.30"	30 ft. of Head	3NWA9
Cherne® T-Handle Gripper® Plugs (With Bypass), Heavy-Duty Aluminum with Neoprene O-Ring				
6"	5.70"	6.30"	40 ft. of Head	3NWC1
8"	7.70"	8.30"	40 ft. of Head	3NWC2
10"	9.80"	10.30"	40 ft. of Head	3NWC3
12"	11.70"	12.3"	30 ft. of Head	5NRW8
15"	14.80"	15.3"	30 ft. of Head	5NRW9
18"	17.70"	18.3"	20 ft. of Head	5NRX0
Cherne® Mechanical Expansion Plug, for Water or Air Testing or Blocking, Mechanical				
2"	2.00"	2"	30 ft. of Head	53MH34
3"	2.94	3"	25 ft. of Head	53MH37
4"	3.97"	4"	18 ft. of Head	53MH36
12"	11.95"	12"	6 ft. of Head	53MH33
Cherne® Mechanical Expansion Plug, for Water or Air Testing or Blocking, T-Handle				
6"	5.77"	6"	10 ft. of Head	53MH26
Cherne® Plug, for Underground, T-Handle				
6"	5.77"	6"	40 ft. of Head	53MH27

** For max. back air pressure, divide max. ft. of head by 2.31. † Meet all EPA requirements for locking plugs.*

Expansion Plugs

SHAW PLUGS

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Brass, Zinc Plated Steel, Neoprene Rubber Item No.	Stainless Steel, Neoprene Rubber Item No.
Snap-Tite					
⅜"	0.38"	0.405"	25 ft. of Head	6VFR1	6VFT2
7/16"	0.41"	0.4725"	25 ft. of Head	6VFR2	6VFT3
½"	0.47"	0.540"	25 ft. of Head	6VFR3	6VFT4
9/16"	0.55"	0.6075"	25 ft. of Head	6VFR4	6VFT5
⅝"	0.61"	0.675"	25 ft. of Head	6VFR5	6VFT6
¾"	0.72"	0.810"	25 ft. of Head	6VFR7	6VFT8
⅞"	0.85"	0.945"	25 ft. of Head	6VFR9	6VFV0
1"	0.97"	1.08"	12 ft. of Head	6VFT1	6VFV2
1¼"	1.19"	1.333	5 ft. of Head	14M015	—
1½"	1.38	1.545	5 ft. of Head	14M016	14M025
1¾"	1.63	1.826	5 ft. of Head	14M017	—
2"	1.95"	2.184	5 ft. of Head	14M018	14M026
2¼"	2.25"	2.520	5 ft. of Head	14M019	—
2½"	2.47"	2.766	5 ft. of Head	14M020	—
2¾"	2.69	3.013	5 ft. of Head	14M021	—
3"	2.94	3.293	5 ft. of Head	14M022	14M027
3½"	3.38"	3.786	5 ft. of Head	14M023	—
4"	3.94"	4.413	5 ft. of Head	14M024	—
Turn-Tite					
½"	0.48"	0.54"	24 ft. of Head	6VFL9	6VFP0
⅝"	0.56"	0.629	10 ft. of Head	—	14M013
⅝"	0.56"	0.630	10 ft. of Head	14M003	—
¾"	0.72"	0.81"	24 ft. of Head	6VFN0	6VFP1
⅞"	0.81"	0.909	10 ft. of Head	14M004	14M014
1"	0.94"	1.08"	12 ft. of Head	6VFN1	6VFP2

** For max. back air pressure, divide max. ft. of head by 2.31.*

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Brass, Zinc Plated Steel, Neoprene Rubber Item No.	Stainless Steel, Neoprene Rubber Item No.
1⅛"	1.06"	1.166"	5 ft. of Head	14M005	—
1¼"	1.21"	1.35"	12 ft. of Head	6VFN2	6VFP3
1⅜"	1.32"	1.478	5 ft. of Head	14M006	—
1½"	1.44"	1.62"	12 ft. of Head	6VFN3	6VFP4
1⅝"	1.55"	1.736	5 ft. of Head	14M007	—
1¾"	1.70"	1.89"	12 ft. of Head	6VFN4	6VFP5
1⅞"	1.81	2.027	5 ft. of Head	14M008	—
2"	1.93"	2.16"	12 ft. of Head	6VFN5	6VFP6
2¼"	2.22"	2.43"	12 ft. of Head	6VFN6	6VFP7
2½"	2.44"	2.70"	12 ft. of Head	6VFN7	6VFP8
2¾"	2.63"	2.97"	12 ft. of Head	6VFN8	6VFP9
3"	2.92"	3.24"	12 ft. of Head	6VFN9	6VFR0
3¼"	3.13"	3.506	5 ft. of Head	14M009	—
3½"	3.41"	3.853	5 ft. of Head	14M010	—
3¾"	3.69"	4.133	5 ft. of Head	14M011	—
4"	3.97"	4.446	10 ft. of Head	14M012	—

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Zinc Plated Steel, Neoprene Rubber Item No.
Hex-Nut				
½"	0.48"	0.538	10 ft. of Head	14M032
¾"	0.72"	0.805	10 ft. of Head	14M033
1"	0.94"	1.049	5 ft. of Head	14M034
1¼"	1.21"	1.355	5 ft. of Head	14M035
1½"	1.44"	1.613	5 ft. of Head	14M036
1¾"	1.70"	1.904	5 ft. of Head	14M037
2"	1.93"	2.162	5 ft. of Head	14M038



Snap-Tite No. 6VFR1



Turn-Tite No. 6VFL9



Hex-Nut No. 14M037



Wing-Nut No. 14M028



Bypass Turn-Tite No. 14M039

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Zinc Plated Steel, Neoprene Rubber Item No.
Wing-Nut				
½"	0.48"	0.538	10 ft. of Head	14M028
1"	0.94"	1.049	5 ft. of Head	14M029
1½"	1.44"	1.613	5 ft. of Head	14M030
2"	1.93"	2.162	5 ft. of Head	14M031

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Aluminum, Stainless Steel, Neoprene Rubber Item No.
Thumb Nut				
5/16"	0.29"	0.3375"	24 ft. of Head	6VFV4
⅜"	0.36"	0.405"	24 ft. of Head	6VFV5
½"	0.48"	0.540"	24 ft. of Head	6VFV7
9/16"	0.53"	0.6075"	24 ft. of Head	6VFV8

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Brass, Zinc Plated Steel, Neoprene Rubber Item No.
Bypass TurnTite				
½"	0.48"	0.537	10 ft. of Head	14M039
1"	0.94"	1.049	5 ft. of Head	14M040
2"	1.44"	1.613	5 ft. of Head	14M041
	1.93"	2.122	5 ft. of Head	14M042



No. 4HXR6



No. 4HXW8



No. 1RVP4

Clevis Hangers

Recommended for suspending stationary, noninsulated pipelines.

LIGHT-DUTY

Carbon Steel-Copper Finished (for Copper Pipe)
Comply with Federal Specifications WW-H-171 (Type 12).

Carbon Steel-Zinc Finish
- Max. temp.: 450°F

For steel pipe but better for corrosive environments. Comply with Federal Specification WW-H-171E (Type 12).

Carbon Steel-Plain Finish
- Max. temp.: 650°F

Meet Federal Specifications WW-H-171 (Type 12).

HEAVY-DUTY

Carbon Steel (for Wastewater Pipe)
- Max. temp.: 650°F

Suitable for wastewater applications and where ductile iron or cast-iron pipe is used. Comply with Federal Specifications A-A-1192 (Type 1). WW-H-171-E (Type 1), and MSS-SP-69 (Type 1).

Carbon Steel - Plain Finish
- Max. temp.: 650°F

For steel pipe. Meet A-A-1192A (Type 1), WW-H-171-E (Type 1), ANSI/MSS SP-69, and MSS SP-58 (Type 1).

Carbon Steel-Zinc Finish
- Max. temp.: 450°F

304 Stainless Steel
Meet Federal Specification WW-H-171 (Type 1), MSS SP-58 and SP-69 (Type 1).

Pipe Size (in.)	Rod Size	Max. Load (lb.)	Carbon Steel-Copper Finish (for Copper Pipe) Item No.	Carbon Steel-Plain Finish Item No.	Carbon Steel-Zinc Finish Item No.
Light Duty, Adjustable, Anvil®					
½	⅜"	150	4HXR6	4HXT7	4HXU7
¾	⅜"	150	4HXR7	—	—
¾	⅜"	250	—	4HXT8	4HXU8
1	⅜"	250	4HXR8	4HXT9	4HXU9
1½	⅜"	250	4HXT1	4HXU2	4HXV2
2	⅜"	250	4HXT2	4HXU3	4HXV3
2½	⅜"	350	4HXT3	4HXU4	4HXV4
3	⅜"	350	4HXT4	4HXU5	4HXV5
4	⅜"	400	4HXT6	4HXU6	4HXV6

Pipe Size (in.)	Rod Size	Max. Load (lb.)	Carbon Steel (for Wastewater Pipe) Item No.	Carbon Steel-Plain Finish Item No.	Carbon Steel-Zinc Finish Item No.
Heavy-Duty Adjustable, Anvil®					
½ - ¾	⅜"	610	—	4HXW8	4HXV7
1	⅜"	730	—	4HXW9	4HXV8
1¼	⅜"	730	—	4HXX1	4HXV9
1½	⅜"	730	—	4HXX2	4HXW1
2	⅜"	730	—	4HXX3	4HXW2
2½	½"	1350	—	4HXX4	4HXW3
3	½"	1350	—	4HXX5	4HXW4
4	⅝"	1430	5LWX5	4HXX6	4HXW5
6	¾"	1940	5LWX6	4HXX7	4HXW6
8	¾"	2000	5LWX7	4HXX8	4HXW7
10	⅞"	3600	5LWX8	—	—
12	⅞"	3800	5LWX9	—	—

Pipe Size (in.)	Rod Size	Max. Load (lb.)	304 Stainless Steel Item No.
Heavy-Duty, nVent Caddy			
½	⅜"	610	1RVP4
¾	⅜"	610	1RVP5
1	⅜"	610	1RVP6
1¼	⅜"	610	1RVP7
1½	⅜"	610	1RVP8
2	⅜"	610	1RVP9
2½	½"	1130	1RVR1
3	½"	1130	1RVR2
3½	½"	1130	1RVR3
4	⅝"	1130	1RVR4



No. 49XK92



No. 49XK96



No. 53MH55

Steel Pipe Hangers and Stud Guards

Durable powder-coated finish allows use in indoor or outdoor applications.

Pipe Hanger—Innovative design can hold and secure cast-iron, copper, and PVC pipe. Easy-to-install hanger can be reused if the pipe location needs to be changed. 16-ga. construction, except Nos. 53MH45 to 53MH50 are 18 ga., and 49XK94 to 49XK96 are 10 ga.

Stud Guard—Designed to help protect wiring and pipes from nails or screws. 16-ga. spring steel construction.

Pipe Size (in.)	Fits Tube Size	Max. Load (lb.)	Item No.
Pipe Hanger			
½	½"	50	53MH45
½ PVC	¾"	50	53MH46
½	½"	50	53MH48
½ PVC	¾"	50	53MH49
¾ PVC	1"	50	53MH47
¾ PVC	1"	50	53MH50
1¼	1½"	50	53MH51
1¼	1½"	50	53MH52
1½	2"	50	49XK92
1½	2"	50	53MH53
2	2¼"	50	49XK93
2	2¼"	50	53MH54
3	3"	80	49XK94
4	4"	100	49XK95
6	6"	100	49XK96

W (in.)	H (in.)	L (in.)	Item No.
Stud Guard			
1⅜	3⁄64"	2¾	53MH55
1⅜	3⁄64"	5	53MH56



No. 1RVN6



No. 1RUY2



No. 1RVB2

Loop Hangers

Recommended for suspension of stationary noninsulated pipelines. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

304 Stainless Steel—Hex nut (not included) is recommended for use with hanger.

Carbon Steel-Copper Plated—Copper colored for ID purposes. Swivel, adjustable band.

Electro-Galvanized Steel, J-Style—Can be suspended by hanger rod or attached to wall.

Carbon Steel-Zinc Plated Finish—Can be suspended by hanger rod or attached to wall. T-slot in hanger permits side bolt to be installed after pipe installation and setting.

Swivel, Adjustable Band with NFPA Rod Sizes—Manufactured to use the minimum rod size permitted by NFPA for fire sprinkler piping. Electro-galvanized steel. Swivel, adjustable band.

Carbon Steel-Zinc Plated Finish—A retained insert nut helps keep the loop hanger and insert nut together. Swivel, heavy-duty adjustable band. ½" to 2" have rounded edge for use with CPVC.

J-Style, Felt Lined—Help prevent electrolysis when used with copper tubing lines. Felt lining reduces noise in pipes. Electro-galvanized steel.

Pipe Size (in.)	Rod Size	Max. Load (lb.)	Item No.
304 Stainless Steel, nVent Caddy			
¾	⅜"	610	1RVN6
1	⅜"	610	1RVN7
1¼	⅜"	610	1RVN8
1½	⅜"	610	1RVN9
2	⅜"	610	1RVP1
2½	½"	970	1RVP2
3	½"	970	1RVP3
Carbon Steel-Copper Plated, Finish Anvil®			
½ - 1¼	⅜"	300	4HXX9
1½	⅜"	300	4HXY1
2	⅜"	300	4HXY2
2½	⅜"	525	4HXY3
3	⅜"	525	4HXY4
4	⅜"	650	4HXY6
Electro-Galvanized Steel, J Style, nVent Caddy			
2	⅜"	400	4UEG3
6	¾"	1000	4UEG8
Carbon Steel-Zinc Plated Finish, J Style, Anvil®			
1	⅜"	400	4HXZ7
1¼	⅜"	400	4HXZ8
1½	⅜"	400	4HXZ9
2	⅜"	400	4HYA1
3	½"	500	4HYA3
4	⅝"	550	4HYA4
5	⅝"	550	4HYA5
6	¾"	600	4HYA6
Swivel, Adjustable Band w/ NFPA Rod Sizes, nVent Caddy			
2½	⅜"	525	1RUX7
3	⅜"	525	1RUX8
4	⅜"	650	1RUX9
5	½"	1000	4UEF6
6	½"	1000	1RUY1
8	½"	1000	1RUY2
Carbon Steel-Zinc Plated Finish, Anvil®			
½ - 1	⅜"	300	4HXY7
1¼	⅜"	300	4HXY8
1½	⅜"	300	4HXY9
2	⅜"	300	4HXZ1
2½	⅜"	525	4HXZ2
3	⅜"	525	4HXZ3
4	⅜"	650	4HXZ4
J Style - Felt Lined, nVent Caddy			
2	⅜"	400	1RVB2
2½	½"	800	1RVB3
3	½"	800	1RVB4

nVent CADDY

GA GRAINGER APPROVED


No. 1RVD4


No. 22FP57

Split Ring Hangers

Use for suspending stationary, noninsulated pipelines. Allow for piping runs close to ceiling or walls. Bolt and rivet are carbon steel. Meet Federal Specification WW-H-171 (Type 25), MSS SP-58 (Type 12).

Pipe Size (in.)	Max. Load (lb.)	Brand	Cast Iron Item No.	Material Copper Electro Plated Cast Iron Item No.	Material Copper Plated Malleable Iron Item No.	Material Electro-Galvanized Cast Iron Item No.	Material Electro Galvanized Malleable Iron Item No.
For ½" Rod							
2½	300	nVent Caddy	1RVE2	—	—	1RVE1	—
3		nVent Caddy	1RVE4	—	—	1RVE3	—
4		nVent Caddy	1RVE6	—	—	1RVE5	—
For ⅜" Rod							
½	180	nVent Caddy	1CWE3	1CWG7	—	1RVD4	—
½		GA	—	—	22FP62	—	22FP57
¾		nVent Caddy	1CWE4	1CWG8	—	—	—
¾		GA	—	—	22FP63	—	22FP58
1		nVent Caddy	1CWE5	1CWG9	—	1RVD6	—
1		GA	—	—	—	—	22FP59
1¼		nVent Caddy	1CWE6	1CWH1	—	1RVD7	—
1½		nVent Caddy	1CWE7	1CWH2	—	1RVD8	—
1½		GA	—	—	—	—	22FP60
2		nVent Caddy	1CWE8	1CWH3	—	1RVD9	—
2		GA	—	—	—	—	22FP61
For ⅜-16 UNC 2B Rod							
¾	180	nVent Caddy	—	—	—	1RVD5	—

nVent CADDY

DURA-BLOK™


No. 1CWH4

No. 15E509

Pipe Support Blocks

Pyramid 25—Innovative design won't damage roof membranes. No tools or fasteners needed. Handle up to three ½", two ¾", or one 1" pipe or conduit.

Pyramid 50—14-ga. steel top accepts standard strut pipe clamps (not included). Electro-galvanized steel.

Recycled Rubber—100% recycled rubber is UV resistant, won't penetrate roof material, and can accept screw fasteners for securing accessories. Suitable for supporting cable trays, conduits, HVAC ducts, and pipe.

Max. Load (lb.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Pyramid 25						
25	5 11/16	4 11/16	3⅝	Nvent Caddy	PPRPS25H4	1CWH4
25	5 11/16	4 11/16	5⅝	Nvent Caddy	PPRPS25H6	1CWH5
Pyramid 50						
50	10⅜	5	6	Nvent Caddy	RPS50H6EG	1RVH6
Recycled Rubber						
200	4.8	6	5	Dura-Blok	DB5	15E508
500	9.6	6	5	Dura-Blok	DB10	15E509

Pipe Clamps

ANVIL INTERNATIONAL

- Max. temp.: 750° (plain steel); 450°F (galvanized)

Carbon steel construction and for use in suspending cold or hot pipelines, where no insulation is required. Meet Federal Specification A-A-1192A (Type 4), WW-H-171-E (Type 4), ANSI/MSS SP-69, and MSS SP-58 (Type 4). UL, ULC Listed and FM Approved (Sizes ¾" to 8").

Pipe Size (in.)	Max. Load (lb.)	L (in.)	Finish Plain Item No.	Finish Hot-Dip Galvanized Item No.
½	500 at 650°F	3¼	4HYL3	4HYN7
¾	500 at 650°F	3 7/16	4HYL4	4HYN8
1	500 at 650°F	3 9/16	4HYL5	4HYN9
1¼	500 at 650°F	4⅛	4HYL6	4HYP1
1½	800 at 650°F	4 5/16	4HYL7	4HYP2
2	1040 at 650°F, 930 at 750°F	5½	4HYL8	4HYP3
2½	1040 at 650°F, 930 at 750°F	6½	4HYL9	4HYP4
3	1040 at 650°F, 930 at 750°F	7	4HYN1	4HYP5
3½	1040 at 650°F, 930 at 750°F	7⅞	4HYN2	4HYP6
4	1040 at 650°F, 930 at 750°F	8½	4HYN3	4HYP7
5	1040 at 650°F, 930 at 750°F	9⅞	4HYN4	4HYP8
6	1615 at 650°F, 1440 at 750°F	11½	4HYN5	4HYP9
8	1615 at 650°F, 1440 at 750°F	13¾	4HYN6	4HYR1


No. 4HYL3


Superklip
No. 1RUZ3


Hammer-On
No. 1RVG1


1-Pc. Pipe Clip
No. 1XJR7

nVent CADDY

Tube and Pipe Clamps

SUPERKLIP TUBE AND PIPE CLAMPS

Push the tube into the clamp to close and lock the pipe into place. Fasten with wood screw, dual-threaded screw with or without collar, nail with collar, or ¼" threaded rod. Nonmetallic construction is UV resistant and suitable for outdoor applications. White color.

HAMMER-ON STRAP HANGER CLIPS

Clips support pipe or duct from flange with banding or strapping. Accept strap up to 1¼" wide. No. 1RVG1 is for pipe runs perpendicular to beam. No. 1RVG2 is for pipe runs parallel to beam.

1-PC. PIPE CLIPS

Use for vertical and horizontal installations. Copper-plated steel construction.

Pipe Size (in.)	Tube Size (in.)	Max. Load (lb.)	Item No.
Superklip Tube and Pipe Clamp			
—	⅜	35	1RUZ3
—	½	40	1RUZ4
⅜	⅝	43	1RUZ5
½	—	45	1RUZ6
—	¾	48	1RUZ7
¾	—	54	1RUZ8
—	1	58	1RUZ9
1	1¼	67	1RVA1
1¼	1½	80	1RVA2
1½	—	84	1RVA3
—	2	90	1RVA4
2	—	92	1RVA5

Description	Item No.
Hammer On, Angled Clip	
Angled Clip	1RVG1
Hammer On, Straight Clip	
Straight Clip	1RVG2

Pipe Size (in.)	Item No.
One Piece Pipe Clip	
½	1XJR7
¾	1XJR8
1	1XJR9
1½	1XJT2
2	1XJT3

nVent CADDY

GA GRAINGER APPROVED

Strut Channel Washers, Clamps, and Nuts

SQUARE CHANNEL WASHERS

Use with hex nuts to connect threaded rod to slotted strut channels in a variety of support system applications.

STRUT-TO-STRUT CLAMP

Provides a welding alternative for assembly of back-to-back half-slot strut. Quickly assembled without washers, bolts, or nuts.

STRUT CHANNEL NUTS

Without Spring

Grooved to stay in place during installation.

With Spring and Top Spring

Spring holds nut in place during rod installation.

Strut Nuts

1-pc. design provides fast attachment of threaded rod and hardware. No washer required.


Channel Nut With Spring
No. 1XJP4


Channel Nut With Top Spring
No. 1XJR1


Strut Nut
No. 1XJL9

Bolt Size (in.)	Square Channel Washer Item No.
5/16	1XJN4
⅜	1XJN5
½	1XJN6

Max. Load (lb.)	Strut To Strut Clamp Item No.
1000	1XJN3

Thread Size (in.)	W (in.)	H (in.)	Channel Nut Without Spring Item No.	Channel Nut With Spring Item No.	Channel Nut With Top Spring Item No.	Strut Nut Item No.
¼-20	¾	¼	1XJP7	1XJP4	1XJR1	—
	1⅛	⅞	—	—	—	1XJL9
⅜-16	⅜	⅜	—	22FP78 *	—	—
	¾	⅜	1XJP8	1XJP5	1XJR2	—
	1⅛	⅞	—	—	—	1XJN1
½-13	¾	½	1XJP9	1XJP6	—	—
	1⅛	⅞	—	—	—	1XJN2

** GA brand.*

ZSi GA GRAINGER APPROVED

Cush-A-Clamp® Strut Clamps

- Temp. range: -50° to 275°F

Clamps absorb shock and vibration; reduce unwanted noise and galvanic corrosion in multiple-line runs. Thermoplastic cushion resists most oils, chemicals, and industrial cleaning compounds. Sizes up to 1⅜" have Controlled Squeeze™ design, which eliminates over-tightening and rotation.



Electro Galvanized Gold No. 22FP75



Stainless Steel Type 304 No. 4MUY9

Tube Size (in.)	Pipe Size (in.)	Max. Load (lb.)*	L (in.)	W (in.)	Brand	Material: Electro Galvanized Gold Item No.	Material: Stainless Steel Type 304 Item No.
—	¼	1000	6 3/64	1⅝	Zsi	4MUZ5	4MUZ6
—	⅜	1000	1⅛	1⅝	Zsi	4MVF6	4MVF7
—	¾	1000	1 3/64	1⅝	Zsi	4MVF2	—
—	1	1000	1 49/64	1⅝	Zsi	4MUY8	—
—	1¼	2200	2 1/64	1⅝	Zsi	4MVA2	4MVA3
—	5	3600	6 1/64	1⅝	Zsi	4MVJ3	4MVJ4
—	6	3600	7 5/64	1⅝	Zsi	4MVJ9	4MVK1
—	1½	2200	2 21/64	1⅝	Zsi	—	4MVC7
¼	—	1000	⅝	1⅝	Zsi	4MUZ7	4MUZ8
⅜	—	1000	5 3/64	1⅝	Zsi	4MVF8	4MVF9
½	—	1000	15/16	1⅝	Zsi	4MUZ3	4MUZ4
⅝	½	1000	15/16	1⅝	GA	22FP75	—
⅝	—	1000	1 1/16	1⅝	Zsi	4MVJ5	4MVJ6
¾	—	1000	1 13/64	1⅝	Zsi	4MVF4	4MVF5
¾"	¾	1000	1 3/64	1⅝	Zsi	—	4MVF3
⅞	½	1000	1 5/16	1⅝	Zsi	4MVK6	4MVK8
⅞	¾	1000	1 13/64	1⅝	GA	22FP76	—
⅞	—	1000	1 5/16	1⅝	Zsi	4MVK5	—
1	—	1000	1 45/64	1⅝	Zsi	4MVA4	—
1	—	1000	1 7/16	1⅝	Zsi	4MUZ1	4MUZ2
1"	1	1000	1 49/64	1⅝	Zsi	—	4MUY9
1⅛"	—	1000	1 3/64	1⅝	Zsi	4MVA6	—
1⅛	—	1000	1 3/64	1⅝	Zsi	—	4MVA7
1¼	—	1000	1 45/64	1⅝	Zsi	—	4MVA5
1⅜	—	1000	1 53/64	1⅝	Zsi	4MVC1	4MVC2
1½	—	2200	1 61/64	1⅝	Zsi	—	4MVA1
1⅝	—	2200	2 5/64	1⅝	Zsi	4MVC3	4MVC4
1⅞	1½	2200	2 21/64	1⅜	Zsi	4MVC5	—
2	—	2200	2 29/64	1⅝	Zsi	4MVD2	4MVD3
2	—	2200	2 53/64	1⅝	GA	22FP77	—
2⅛	—	2200	2 3/64	1⅝	Zsi	4MVD6	4MVD7
2⅜	2	2200	2 53/64	1⅝	Zsi	4MVD8	4MVE1
2⅝	—	2200	3 5/64	1⅝	Zsi	4MVE3	4MVE4
2⅞	2½	2200	3 21/64	1⅝	Zsi	4MVE5	4MVE7
3	—	2200	3 37/64	1⅝	Zsi	4MVE9	4MVF1
3½	3	3600	3 61/64	1⅝	Zsi	4MVG1	4MVG3
4⅛	—	3600	4 37/64	1⅝	Zsi	4MVH9	4MVJ1
4½	4	3600	4 61/64	1⅝	Zsi	4MVH5	4MVH7
5⅛	—	3600	5 37/64	1⅝	Zsi	4MVJ7	—
6	—	3600	6 37/64	1⅝	Zsi	4MVK2	—

** Maximum pullout load from industry standard 12-ga. strut channel.*

Pipe Size (in.)	Fits Tube Size	W (in.)	Insulation Thickness	Item No.
Anvil®, Klo-Shure® Insulation Coupling				
Carbon Steel / High Strength TPO Plastic				
¼	¼"	1⅛	⅜"	29JF53
		1⅞	¾"	29JF78
⅜	⅜"	1¼	⅜"	29JF54
		1½	½"	29JF64
		2	¾"	29JF79
		3½	1½"	29JG04
½	½"	1⅜	⅜"	29JF55
		1⅝	½"	29JF65
		2⅛	¾"	29JF80
		3⅝	1½"	29JG05
⅝	⅝"	1½	⅜"	29JF56
		1¾	½"	29JF66
		2¼	¾"	29JF81
		2¾	1"	29JF92
		3¾	1½"	29JG06
¾	¾"	1⅝	⅜"	29JF57
		1⅞	½"	29JF67
		2⅜	¾"	29JF82
⅞	⅞"	1¾	⅜"	29JF58
		2	½"	29JF68
		2½	¾"	29JF83
		3	1"	29JF93
		4	1½"	29JG07
1	1"	1⅞	⅜"	29JF59
		2⅛	½"	29JF69
1⅛	1⅛"	2	⅜"	29JF60
		2¼	½"	29JF70
		2¾	¾"	29JF84
		3¼	1"	29JF94
		4¼	1½"	29JG08
1⅜	1⅜"	2¼	⅜"	29JF61
		2½	½"	29JF71
		3	¾"	29JF85
		3½	1"	29JF95
		4½	1½"	29JG09
1⅝	1⅝"	2½	⅜"	29JF62
		2¾	½"	29JF72
		3¼	¾"	29JF86
		3¾	1"	29JF96
		4¾	1½"	29JG10
2⅛	2⅛"	3	⅜"	29JF63
		3¼	½"	29JF73
		3¾	¾"	29JF87
		4¼	1"	29JF97
		5¼	1½"	29JG11
2⅝	2⅝"	3¾	½"	29JF74
		4¼	¾"	29JF88
		4¾	1"	29JF98
		6¼	1½"	29JG12
3⅛	3⅛"	4¼	½"	29JF75
		4¾	¾"	29JF89
		5¼	1"	29JF99
3⅝	3⅝"	4¾	½"	29JF76
		5¼	¾"	29JF90
		5¾	1"	29JG01
4⅛	4⅛"	5¼	½"	29JF77
		5¾	¾"	29JF91
Carbon Steel				
⅜	⅜"	3½	⅜"	29JG02
½	½"	3⅝	⅜"	29JG03



No. 1RVJ5

nVent CADDY ANVIL INTERNATIONAL Building Connections That Last

Strut Cushion Clamps and Insulation Couplings

Absorb shock and vibration, reduce unwanted noise, and prevent galvanic corrosion. Fit standard 1⅝"W strut channel. Design helps ensure the cushion remains in place. Corrosion-resistant steel with elastomer cushion. Anvil items are carbon steel with high-strength TPO plastic.

Pipe Size (in.)	Tube Size (in.)	W (in.)	H (in.)	Item No.
nVent Caddy, Strut Cushion Clamp				
Electro-Galvanized Steel with Polypropylene Cushion				
—	—	1.562	—	1RVK5
	¼ Copper Tube	1.562	—	1RVJ5
	⅜ Copper Tube	1.562	—	1RVJ8
	1 Copper Tube	1.562	—	1RVK2
	2 Copper Tube	1.562	—	1RVK8
	2½ Copper Tube	1.562	—	1RVK9
	3 Copper Tube	1.562	—	1RVL1
	4 Copper Tube	1.562	—	1RVL2
¼	—	45/64	1 19/32	30UK59
	⅜ Copper Tube	1.562	—	1RVJ6
⅜	½ Copper Tube	1.562	—	1RVJ7
½"	¾" Copper Tube	1.562	—	1RVJ9
¾	—	1.562	—	1RVK1
1		1.562	—	1RVK3
1¼ Copper	1¼ Copper Tube	1.562	—	1RVK4
1¼ Pipe	1½ Copper Tube	1.562	—	1RVK6
1½	—	2 13/32	1 19/32	30UK60
2		3	1 19/32	30UK61
4		5 13/64	1 19/32	30UK62

nVent CADDY GA GRAINGER APPROVED ANVIL INTERNATIONAL Building Connections That Last

No. 4HYD5



Strut Pipe Clamps

For securing pipe, tubing, and conduit to strut channel. Nvent Caddy and Anvil models have a heavy-duty, 1-pc. break-apart design with captive combo head machine screw. GA models have a design to help ensure the cushion stays in place.

Pipe Size (in.)	Material: Copper Electro Plated Steel Max. Load (lb.)	Brand	Item No.	Material: Di-Chromate Plated Steel Max. Load (lb.)	Brand	Item No.
½	400	nVent Caddy	1RVF2	400	GA	22FP65
¾	400	nVent Caddy	1RVF3	400	GA	22FP67
1	600	nVent Caddy	1RVF4	—	—	—
1⅛	—	—	—	400	GA	22FP68
1¼	600	nVent Caddy	1RVF5	—	—	—
1½	600	nVent Caddy	1RVF6	—	—	—
2	800	nVent Caddy	1RVF7	—	—	—
2⅛	—	—	—	400	GA	22FP70
2½	800	nVent Caddy	1RVF8	—	—	—
3	800	nVent Caddy	1RVF9	—	—	—

Pipe Size (in.)	Carbon Steel Max. Load (lb.)*	Brand	Item No.	304 Stainless Steel Max. Load (lb.)*	Brand	Item No.
½	650	Anvil	4HYD6	400	nVent Caddy	1RVR7
¾	650	Anvil	4HYD6	600	nVent Caddy	1RVR8
1	650	Anvil	4HYD7	600	nVent Caddy	1RVR9
1¼	950	Anvil	4HYD8	800	nVent Caddy	1RVT1
1½	1050	Anvil	4HYD9	800	nVent Caddy	1RVT2
2	1350	Anvil	4HYE1	800	nVent Caddy	1RVT3
2½	1300	Anvil	4HYE2	800	nVent Caddy	1RVT4
3	1150	Anvil	4HYE3	800	nVent Caddy	1RVT5
4	1550	Anvil	4HYE4	1000	nVent Caddy	1RVT6

** For Anvil® items the Max. Load (lb.) refers to max. pullout design load.*

No. 1RVB7



nVent CADDY

Superfix Cushioned Pipe Clamps

- Temp. range: -58° to 230°F

Use for suspending stationary noninsulated steel and copper pipelines. Innovative hinged design eliminates the need to disassemble the clamp prior to installation. EPDM rubber sleeve provides an average of 20dBA noise reduction. Welded ⅜" cap nut allows easy attachment to threaded rod. Corrosion-resistant electro-galvanized steel construction. Conform with Manufacturers Standardization Society (MSS) SP-58 And SP-69 (Type 12), Fire Rating according to DIN to EN13501-1:E.

Pipe Size (in.)	Tube Size (in.)	Max. Load (lb.)	Item No.
¼	⅜	180	1RVB7
⅜	½	180	1RVB8
—	⅝	180	1RVB9
½	¾	180	1RVC1
¾	1	180	1RVC2
1	1¼	180	1RVC3
1¼	1½	180	1RVC4
1½	—	180	1RVC5
—	2	180	1RVC6
2	—	180	1RVC7
—	2½	300	1RVC8
2½	—	300	1RVC9
3	—	300	1RVD1
3½	4	300	1RVD2
4	—	300	1RVD3



Electro-Galvanized Gold No. 4MVN2



Stainless Steel Type 304 No. 4MVN3

ZSi

Omega Series™ 2-Hole Cushioned Clamps

- Temp. range: -50° to 275°F

Attach with 2 standard fasteners to any flat surface to protect and provide uniform spacing for line runs. Thermoplastic elastomer cushion resists oils, chemicals, and most industrial cleaning compounds.

Tube Size (in.)	Pipe Size (in.)	Max. Load (lb.)*	L (in.)	W (in.)	Material: Electro Galvanized Gold Item No.	Material: Stainless Steel Type 304 Item No.
⅜	⅜	50	2 21/64	6 3/64	4MVZ5	4MVZ7
⅞	½	50	2 21/32	6 3/64	4MWA6	4MWA8
—	¾	50	2 61/64	6 3/64	4MVX2	4MVX3
—	1	50	3 13/64	1 9/16	4MVN2	4MVN3
1¼	—	50	3 1/64	1 9/16	4MVP7	4MVP8
1⅞	1½	400	4 5/64	1 9/16	4MVR8	4MVT1
2	—	400	4 7/32	1 9/16	4MVT3	4MVT4
2⅜	2	400	4 23/32	1 9/16	4MVT9	4MVU2
2½	—	400	4 53/64	1 9/16	4MVT5	4MVT6
2⅞	2½	400	5 7/32	1 9/16	4MVU6	4MVU8
3½	3	400	5 53/64	1 9/16	4MVY1	4MVX1
4½	4	800	7 31/64	1 9/16	4MVY7	4MVY9

** Maximum hanging load of clamp is dependent upon pullout of fasteners used and surface mounted to clamp.*





ZSi

Cush-A-Nator® Cushioned Clamps

- Temp. range: -50° to 275°F (Standard)
- Temp. range: -65° to 340°F (High Temp.)

Rugged steel clamps have a durable thermoplastic rubber cushion that resists high heat and provides long life against vibration fatigue. Cushion is self-aligning and has a built-in squeeze control to help provide evenly distributed pressure around the pipe or tube for a secure fit. Clamps include hardware and come with a standard or high temp. elastomer cushion. Meet MSS SP-58 and MSS SP-69 (Type 58).

Tube Size	Pipe Size	L	W	H	Plated Steel Item No.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Standard							
—	½"		1.31"	1.82"	33KF73	33KG10	33KG46
—	¾"		1.57"	2.08"	33KF74	33KG11	33KG47
—	1"		1.76"	2.34"	33KF75	33KG12	33KG48
—	1½"		2.32"	2.86"	33KF76	33KG13	33KG49
—	2"		2.82"	3.67"	33KF77	33KG14	33KG50
—	2½"		3.32"	4.17"	33KF78	33KG15	33KG51
—	3"		3.95"	4.79"	33KF79	33KG16	33KG52
—	3½"		4.45"	5.11"	33KF80	33KG17	33KG53
—	4"		4.95"	5.92"	33KF81	33KG18	33KG54
¼"	—		0.62"	0.98"	33KF46	33KF82	33KG19
⅜"	—		0.82"	1.13"	33KF47	33KF83	33KG20
½"	—		0.94"	1.34"	33KF48	33KF84	33KG21
⅝"	—		1.06"	1.54"	33KF49	33KF85	33KG22
¾"	—		1.20"	1.68"	33KF50	33KF86	33KG23
⅞"	—		1.31"	1.82"	33KF51	33KF87	33KG24
1"	—		1.44"	1.95"	33KF52	33KF88	33KG25
1⅛"	—		1.57"	2.08"	33KF53	33KF89	33KG26
1¼"	—	1.62"	1.70"	2.21"	33KF54	33KF90	33KG27
1⅜"	—		1.82"	2.34"	33KF55	33KF91	33KG28
1½"	—		1.95"	2.47"	33KF56	33KF92	33KG29
1⅝"	—		2.07"	2.6"	33KF57	33KF93	33KG30
1¾"	—		2.20"	2.73"	33KF65	33KF94	33KG31
1⅞"	—		2.32"	2.86"	33KF66	33KF95	33KG32
2"	—		2.45"	3.04"	33KF67	33KF96	33KG33
2⅛"	—		2.57"	3.23"	33KF58	33KF97	33KG34
2¼"	—		2.82"	3.67"	33KF59	33KF98	33KG35
2⅜"	—		2.82"	3.67"	33KF60	33KF99	33KG36
2½"	—		2.94"	3.79"	33KF68	33KG01	33KG37
2⅝"	—		3.07"	3.92"	33KF61	33KG02	33KG38
2⅞"	—		3.32"	4.17"	33KF69	33KG03	33KG39
3"	—		3.57"	4.42"	33KF62	33KG04	33KG40
3⅛"	—		3.57"	4.42"	33KF63	33KG05	33KG41
3½"	—		3.95"	4.79"	33KF70	33KG06	33KG42
4"	—		4.45"	5.11"	33KF71	33KG07	33KG43
4⅛"	—		4.57"	5.54"	33KF64	33KG08	33KG44
4½"	—		4.95"	5.92"	33KF72	33KG09	33KG45
High Temp.							
—	½"		1.31"	1.82"	33KG82	33KH19	33KH55
—	¾"		1.57"	2.08"	33KG83	33KH21	33KH56
—	1"		1.76"	2.34"	33KG84	33KH22	33KH57
—	1½"		2.32"	2.86"	33KG85	33KH23	33KH58
—	2"		2.82"	3.67"	33KG86	33KH20	33KH59
—	2½"		3.32"	4.17"	33KG87	33KH24	33KH60
—	3"		3.95"	4.79"	33KG88	33KH25	33KH61
—	3½"		4.45"	5.11"	33KG89	33KH26	33KH62
—	4"		4.95"	5.92"	33KG90	33KH27	33KH63
¼"	—		0.62"	0.98"	33KG55	33KG91	33KH28
⅜"	—		0.82"	1.13"	33KG56	33KG92	33KH29
½"	—		0.94"	1.34"	33KG57	33KG93	33KH30
⅝"	—		1.06"	1.54"	33KG58	33KG94	33KH31
¾"	—		1.20"	1.68"	33KG59	33KG95	33KH32
⅞"	—		1.31"	1.82"	33KG60	33KG96	33KH33
1"	—		1.44"	1.95"	33KG61	33KG97	33KH34
1⅛"	—		1.57"	2.08"	33KG62	33KG98	33KH35
1¼"	—	1.62"	1.70"	2.21"	33KG63	33KG99	33KH36
1⅜"	—		1.82"	2.34"	33KG64	33KH01	33KH37
1½"	—		1.95"	2.47"	33KG65	33KH02	33KH38
1⅝"	—		2.07"	2.6"	33KG66	33KH03	33KH39
1¾"	—		2.20"	2.73"	33KG67	33KH04	33KH40
1⅞"	—		2.32"	2.86"	33KG68	33KH05	33KH41
2"	—		2.45"	3.04"	33KG69	33KH06	33KH42
2⅛"	—		2.57"	3.23"	33KG70	33KH07	33KH43
2¼"	—		2.82"	3.67"	33KG71	33KH08	33KH44
2⅜"	—		2.82"	3.67"	33KG72	33KH09	33KH45
2½"	—		2.94"	3.79"	33KG73	33KH10	33KH46
2⅝"	—		3.07"	3.92"	33KG74	33KH11	33KH47
2⅞"	—		3.32"	4.17"	33KG75	33KH12	33KH48
3"	—		3.57"	4.42"	33KG76	33KH13	33KH49
3⅛"	—		3.57"	4.42"	33KG77	33KH14	33KH50
3½"	—		3.95"	4.79"	33KG78	33KH15	33KH51
4"	—		4.45"	5.11"	33KG79	33KH16	33KH52
4⅛"	—		4.57"	5.54"	33KG80	33KH17	33KH53
4½"	—		4.95"	5.92"	33KG81	33KH18	33KH54



No. 4HYH3



No. 4HYJ3

ANVIL INTERNATIONAL Building Connections That Last

Riser Clamps

Use for suspending vertical steel pipe or copper tube risers. Slotted holes ease assembly. Bolts are accessible from the front; serrated washer head design means no wrench required on back side for tightening. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Note: Copper-plated steel pipe size refers to nominal tube size for copper tubing. Clamp is fitted for steel pipe or copper tube and should be installed below a coupling or shear lug, with bolts torqued to recommended value.

Pipe Size (in.)	Carbon Steel, Copper Plated Finish Max. Load (lb.)	Item No.	Carbon Steel, Hot Dip- Galvanized Finish Max. Load (lb.)	Item No.	Carbon Steel, Plain Finish Max. Load (lb.)	Item No.
½	75	4HYH3	—	—	—	—
¾	75	4HYH4	—	—	220	4HYJ5
1	120	4HYH5	—	—	220	4HYJ6
1¼	150	4HYH6	—	—	250	4HYJ7
1½	150	4HYH7	—	—	250	4HYJ8
2	150	4HYH8	—	—	300	4HYJ9
2½	300	4HYH9	—	—	400	4HYK1
3	300	4HYJ1	500	4HYJ3	500	4HYK2
4	300	4HYJ2	—	—	750	4HYK3
5	—	—	—	—	1500	4HYK4
6	—	—	—	—	1600	4HYK5
8	—	—	2500	4HYJ4	2500	4HYK6



No. 4NCC5



No. 4NCD7

★ GA GRAINGER APPROVED

Hanging and Duct Straps

Hanging Straps—Have alternating 3/16" nail holes and ¼" bolt holes for multiple mounting options.

Duct Strapping—Use for hanging ductwork in HVAC applications.

Material	W	L (ft.)	Gauge	Hanging Straps Item No.
304 Stainless Steel	¾"	10	20	4NCC7
		10	24	4NCD2
		100	20	4NCC8
		100	24	4NCD3
Copper		25	—	5P127
Copper Plated Steel		10	24	4NCD4
		100	24	4NCD5
Galvanized Steel		10	20	4NCC5
		10	24	4NCC9
		100	20	4NCC6
		100	24	4NCD1

Material	W	L (ft.)	Gauge	Duct Strapping Item No.
304 Stainless Steel	1"	10	20	4NCD8
	1"	10	24	4NCE3
	1"	100	20	4NCD9
	1"	100	24	4NCE4
Galvanized Steel	1"	10	20	4NCD6
	1"	10	24	4NCE1
	1"	100	20	4NCD7
	1"	100	24	4NCE2
	1"	100	26	4NCE5
	1½"	100	30	4NCE6

GA GRAINGER APPROVED

AWWA Pipe Couplings


No. 5ENH2

- Max. pressure: 250 psi
- Temp. range: -20° to 180°F
- Nitrile gasket
- Vacuum rating: 28" Hg

Can join pipes with up to 1.65" of pipe differential using a single flange and gasket. Couplings are heavy cast ductile iron and epoxy coated to resist corrosion. ⅝" bolts. Meet AWWA C219, ANSI A21.11, NSF 61, ASTM A-536, ASTM 633-78.

Pipe Size - Pipe Fitting	No. of Bolts	Fitting Length	Item No.
1 51/64" to 2 17/64"	2	4"	5ENH2
2 21/64" to 2 27/32"	2	4"	5ENH3
2 53/64" to 3 11/32"	2	4"	5ENH4
3 29/64" to 4 13/64"	4	5"	5ENH5
4 29/64" to 5 19/32"	4	5½"	5ENH6
6 17/32" to 7 41/64"	4	6"	5ENH7
8 17/32" to 9 27/32"	4	6"	5ENH8
10 41/64" to 12 13/64"	8	7½"	5ENH9
12 3/4" to 14 13/32"	8	7½"	5ENJ0

Smith-Blair A SENSUS COMPANY

Ductile-Iron Couplings


No. 4NWX2

- Temp. range: -20° to 180°F

Join pipe with no special preparation required. Allow limited pipe expansion and contraction; also dampen vibration. Meet ASTM A307, ASTM A536, NSF 61, and ASTM A53C.

Pipe Size - Pipe Fitting	Fitting Length 4½" Item No.	5" Item No.	7" Item No.	12" Item No.
¾"	4NWX2	—	—	4NWX3
1"	—	4NWX4	—	4NWX5
1½"	—	4NWX6	—	4NWX7
2"	—	4NWX8	4NWX9	4NWY1
3"	—	4NWY2	4NWY3	4NWY4
4"	—	4NWY5	4NWY6	4NWY7

straub the right connection

Grip and Wrap-Around Pipe Couplings


Grip-L Open-Flex

- Max. pressure: 232 psi
- Temp. range: -4° to 212°F, except Nos. 452Y10 to 452Y20 are -4° to 180°F
- Vacuum rating: 28" Hg

Join plain-end pipes without special preparation or special tools, and create a leaktight seal. Reusable couplings dampen vibration and handle pipe misalignment. Meet ASTM 1476, TY2, CL2, CL3.

GRIP-L

Couplings create a pull-out resistant seal. Couplings and bolts are 316 stainless steel.

OPEN-FLEX

304SS casing with split gasket design allows coupling to be installed without pipe disassembly. Not pull-out resistant. Couplings are 304 stainless steel, bolts are galvanized steel.

Pipe Size - Pipe Fitting	No. of Bolts	Fitting Length	Item No.
Grip L Pipe Coupling, EPDM Gasket			
¾"		1 51/64"	5MTA5
1"		1 51/64"	5MTA6
1¼"		2 13/32"	5MTA7
1½"		2 13/32"	5MTA8
2"		3"	5MTA9
2½"	2	3 45/64"	5MTC0
3"		3 45/64"	5MTC1
4"		3 45/64"	5MTC2
5"		4 45/64"	5MTC3
6"		4 45/64"	5MTC4
8"		5 39/64"	5MTC5
Grip L Pipe Coupling, Nitrile Gasket			
¾"		1 13/16"	452Y10
1"		1 13/16"	452Y11
1¼"		2 13/32"	452Y12
1½"		2 13/32"	452Y13
2"		3"	452Y14
2½"	2	3 45/64"	452Y15
3"		3 45/64"	452Y16
4"		3 45/64"	452Y17
5"		4 9/16"	452Y18
6"		4 9/16"	452Y19
8"		5 39/64"	452Y20
Open Flex Wrap-Around Pipe Coupling, EPDM Gasket			
1½"		3"	5MTC6
2"		3"	5MTC7
2½"		3"	5MTC8
3"	2	3 45/64"	5MTC9
4"		3 45/64"	5MTD0
5"		4 13/64"	5MTD1
6"		4 13/64"	5MTD2

GA GRAINGER APPROVED

Pipe Straps


No. 1CWC8

ELECTRO-GALVANIZED STEEL, 1-HOLE/2-HOLE

Recommended for supporting horizontal runs of piping from the face of a structural member. Fastening hole in strap may be above or below pipe.


No. 4KJV8

GALVANIZED STEEL, 2-HOLE

Use to secure CPVC pipe in a horizontal position on the bottom of structural wood beams, or on steel with hanger tab in the upward position. Can also be used as a guide to limit movement of a vertical CPVC pipe with tab in the vertical position.


No. 5P128

HEAVY-DUTY AND COPPER, 2-HOLE

Help secure tubing to walls, studs, etc. and help form a rigid system. ½" to 2" straps are 10 ga.; 2½" to 4" straps are 3 ga. Zinc-plated finish is more corrosion resistant than plain steel; 304 stainless provides better corrosion resistance than zinc-plated. Copper straps sold 5 per pack, all others sold each.

Pipe Size (in.)	Electro-Galvanized Steel, 1-Hole/2-Hole Item No.	Galvanized Steel, 2-Hole Item No.	Galvanized Steel, Single Hole Wrap Strap Item No.	Heavy-Duty 304 Stainless Steel 2-Hole Item No.	Heavy-Duty Plain Steel 2-Hole Item No.	Heavy-Duty Zinc-Plated 2-Hole Item No.	Rod Size	Copper 2-Hole Item No.
⅜	1CWC8	—	—	—	—	—	⅛"	5P128
½	1CWC9	—	—	4NCA5	4KJV8	4KJW8	¼"	5P129
¾	1CWD1	4HYC9	4HYC4	4NCA6	4KJV9	4KJW9	⅜"	5P130
1	1CWD2	4HYD1	4HYC5	4NCA7	4KJW1	4KJX1	½"	5P131
1¼	1CWD3	4HYD2	4HYC6	4NCA8	4KJW2	4KJX2	¾"	5P132
1½	1CWD4	4HYD3	4HYC7	4NCA9	4KJW3	4KJX3	1"	5P133
2	1CWD5	4HYD4	4HYC8	4NCC1	4KJW4	4KJX4	1¼"	5P134
2½	4KJX8 *	—	—	4NCC2	4KJW5	4KJX5	1½"	5P135
3	4NCA3 *	—	—	4NCC3	4KJW6	4KJX6	** 2-hole straps.*	
4	4NCA4 *	—	—	4NCC4	4KJW7	4KJX7		

GA GRAINGER APPROVED

Hanger Plates and Brackets

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

CEILING OR WALL PLATES

Structural attachments to support hanger rod from a ceiling or wall.

EYE SOCKET ROD HANGER

Structural attachment used to join hanger rod to a structure.

HINGE ROD HANGER PLATE

Hinge type hanger plates are suitable for attachment to ceiling or wood beams.

IRON SIDE BEAM BRACKET

Use for attaching pipe or conduit to steel or wooden beams.

OFFSET EYE SOCKET ROD HANGER

Structural attachments join hanger rods to a structure with full vertical rod adjustment.

SIDE BEAM ROD HANGER

Prethreaded structural attachment fastened to wall or the side of a joist to support hanger rod. Two #43 wood drive screws are necessary for proper support.

Note: Follow fastener manufacturer's recommended shear and pull-out strength when fastening to the structure.


No. 1RUR9 No. 1RUY8

Rod Size	Material	Max. Load (lb.)	Item No.
Ceiling or Wall Plate			
½"	Electro-Galvanized Cast Iron	180	4UEG9
½"	Cast Iron	180	4UEH1
Ceiling or Wall Rod Hanger Plate			
⅜"	Copper Plated Malleable	180	4HYK7
⅜"	Malleable Iron	180	4HYK8
⅜-16"	Galvanized Steel	180	4HYK9
⅜"	Copper Electro Plated Cast Iron	180	1RUY9
⅜"	Electro-Galvanized Cast Iron	180	1RUZ1
⅜"	Cast Iron	180	1RUZ2
Eye Socket Rod Hanger			
⅜"	Pre-Galvanized Steel	250	1RUR9
½"	Pre-Galvanized Steel	760	1RUT1
Hinge Rod Hanger Plate			
⅜"	Malleable Iron	180	22FP84
⅜"	Copper Plated Malleable Iron	180	22FP85
Iron Side Beam Bracket			
½"	Malleable Iron	640 w/Lag Screw, 1350 w/Bolt to Steel	4HYL1
⅝"	Malleable Iron	760 w/Lag Screw, 2160 w/Bolt to Steel	4HYL2
Offset Eye Socket Rod Hanger			
⅜"	Electro-Galvanized Steel	250	1RUT2
Side Beam Rod Hanger			
⅜"	Steel	250	1RUY8

nVent CADDY ★ GA GRAINGER APPROVED ANVIL INTERNATIONAL Building Connections That Last

Beam Clamps

Note: Setscrews must be tightened and torqued onto the sloped side of the I-beam.

UNIVERSAL

Structural attachment for top or bottom of metal beams, purlins, channels, or angle iron. Hardened steel setscrew. Max. flange size: ¾". Meet Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69.

C-CLAMPS WITH SETSCREW

Attach to W and M beams. Hardened steel setscrew. Meet Fed. Spec. A-A-1192A (Type 23), WW-H-171-E (Type 23), ANSI/MSS SP-69, and ANSI/MSS SP-58 (Type 23). UL and C-UL Listed. ⅜" size is FM Approved.

C-CLAMPS WITH SETSCREW AND LOCKNUT

For structural attachment to top or bottom of metal beams, purlins, channels, or angle iron. Hardened steel setscrew. Meet Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69. ⅜" size is FM Approved.

WIDE-MOUTH C-CLAMPS

Use under roof installations with bar joist-type construction; or attach to structural shape flanges, with the vertical hanger rod offset from the flange edge.

With Setscrew and Locknut— Max. joist or flange thickness: 1¼", except Nos. 4HYG6 to 4HYG9 are 15⁄16". Meet Fed. Spec. A-A-1192A (Type 19 and 23), WW-H-171-E (Type 23), ANSI/MSS SP-69, ANSI/MSS SP-58 (Type 19 and 23), UL and C-UL Listed, FM Approved; except Nos. 4HYG6 to 4HYG9 meet Fed. Spec. A-A-1192A (Type 19), WW-H-171-E (Type 19), ANSI/MSS SP-69, and ANSI/MSS SP-58 (Type 19).

CHANNEL-TO-BEAM

Attaches to beam and supports strut.

MULTIFLANGE

Structural attachment to bottom of purlins and beams to support threaded rod. Swivel feature for sloped roofs. UL Listed for fire protection applications (max. 3" Schedule 40 steel pipe).

PURLIN

Attaches to lower flange of metal beams or purlins with 45° flanges up to 2" long and 90° flanges up to 1½"H. Hardened steel setscrew. Meets Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69.

BEAM CLAMP STRAPS AND SLIP LOCK STRAP

Retainer straps for universal clamps. Field bend and use jam nut over hanger rod to secure. Add 2" width of flange to determine min. strap length. Slip lock strap is for retrofit applications.


No. 1XJR3


No. 4HYF8


No. 4HYE8

Rod Size (in.)	L	Material	Max. Load (lb.)	Brand	Item No.
Beam Clamps					
½"	1¾	Malleable Iron	400	Anvil	**4HYF9**
Universal Beam Clamps					
¼"	¾	Electro-Galvanized Steel	250 for Top of Beam, 100 for Bottom	nVent Caddy	**1XJR3**
	¾	Electro-Galvanized Steel	Top of Beam 500 and Bottom 250	nVent Caddy	**1RUY3**
⅜"	¾	304 Stainless Steel	500	nVent Caddy	**1RVR5**
	1¼	Steel	Top of Beam 500 and Bottom 250	nVent Caddy	**1RUY5**
	2.5	Malleable Iron	500	GA	**22FP80**
	¾	304 Stainless Steel	1130	nVent Caddy	**1RVR6**
½"	2	Electro Galvanized Malleable Iron	810	GA	**22FP79**
	¾	Electro-Galvanized Steel	Top of Beam 950 and Bottom 760	nVent Caddy	**1RUY4**
C-Clamps with Setscrew					
⅜"	1¾	Malleable Iron	400	Anvil	**4HYF8**
½"	1¾	Malleable Iron	400	Anvil	**4HYG1**
⅝"	2	Malleable Iron	440	Anvil	**4HYG2**
	2	Malleable Iron	440	Anvil	**4HYG3** *
¾"	2	Malleable Iron	500	Anvil	**4HYG4**
C-Clamps with Setscrew and Locknut					
	2.2	Electro Galvanized Malleable Iron	400	GA	**22FP81**
	1 9⁄16	Ductile Iron	500 at Top, 250 at Bottom	Anvil	**4HYE5**
⅜"	1¾	Malleable Iron	400	Anvil	**4HYF7**
	1¾	Malleable Iron	400	Anvil	**4HYF1** *
	2⅜	Carbon Steel	230	Anvil	**4HYH1**
	1¾	Ductile Iron	950 at Top, 760 at Bottom	Anvil	**4HYE7**
½"	1¾	Malleable Iron	400	Anvil	**4HYF2** *
	1 13⁄16	Ductile Iron	950 at Top, 760 at Bottom	Anvil	**4HYE6**
	2⅜	Carbon Steel	380	Anvil	**4HYH2**
⅝"	2	Malleable Iron	440	Anvil	**4HYF3**
	2	Malleable Iron	440	Anvil	**4HYF4** *
¾"	2	Malleable Iron	500	Anvil	**4HYF5**
	2	Malleable Iron	500	Anvil	**4HYF6** *
Wide Mouth C-Clamp with Setscrew and Locknut					
⅜"	1¾	Ductile iron	500 at Top, 250 at Bottom	Anvil	**4HYE8**
½"	1¾	Ductile Iron	950 at Top, 760 at Bottom	Anvil	**4HYE9**
⅝"	2	Ductile Iron	1200	Anvil	**4HYG6**
	2	Ductile Iron	1200	Anvil	**4HYG7** *
¾"	2	Ductile Iron	1600	Anvil	**4HYG8**
	2	Ductile Iron	1600	Anvil	**4HYG9** *
Channel-to-Beam Clamp					
⅜"	3⅜	Electro-Galvanized Steel	1200 Per Pair	nVent Caddy	**1XJR4**
¼"	—	Electro Galvanized Steel	1200	GA	**22FP82**
Multiflange Beam Clamps					
¼"	3¼	Electro-Galvanized Steel	C and Z Purlins 200 and Flat Flanges 160	nVent Caddy	**1RVG3**
⅜"	3¼	Electro-Galvanized Steel	C and Z Purlins 200 and Flat Flanges 160	nVent Caddy	**1RVG4**
Purlin Clamp					
⅜"	2	Cast Iron	400	nVent Caddy	**1RUY7**
	3	Malleable Iron	400	GA	**22FP83**
Beam Clamp Straps					
⅜ or ½"	8	Pre-Galvanized Steel	—	nVent Caddy	**1RUR6**
	10	Pre-Galvanized Steel	—	nVent Caddy	**1RUR7**
	12	Pre-Galvanized Steel	—	nVent Caddy	**1RUR8**
Strip Lock Strap					
⅜"	12	Pre-Galvanized Steel	—	nVent Caddy	**1RUR5**

** Zinc-plated finish.*

304 Stainless Steel Pipe Repair Clamps

★ GA GRAINGER APPROVED

For safe repair of cold and hot water lines. Clamps provide a positive seal and have plated malleable iron lugs and a neoprene gasket, except 3- and 4-Bolt Clamps have a gridded Buna N gasket. All models are tagged with pipe size.

Pipe Size (in.)	Bolt Size (in.)	Item No.
Single Bolt - 3" Length		
⅜	⅜ x 3	**24T944**
½		**24T945**
¾		**24T946**
1		**24T947**
1¼		**24T948**
1½		**24T949**
2	⅜ x 4	**24T950**
2½		**24T951**
3		**24T952**
4		**24T953**
Two Bolt - 6" Length		
½	⅜ x 3	**24T954**
¾		**24T955**
1		**24T956**
1¼		**24T957**
1½		**24T958**
2	⅜ x 4	**24T959**
2½		**24T960**
3		**24T961**
4		**24T962**

Pipe Size (in.)	Bolt Size (in.)	Item No.
Three Bolt - 9" Length		
⅜	⅜	**5WMP0**
¾		**5WMP4**
1		**5WMP6**
1¼		**5WMP8**
1½		**5WMR0**
2	7⁄16	**5WMR2**
2½		**5WMR4**
3		**5WMR8**
3½		**5WMR6**
4		**5WMT0**
5		**5WMT2**
6		**5WMT6**
7		**5WMT5**
8		**5WMT8**
Four Bolt - 12" Length		
½	⅜	**5WMP1**
¾		**5WMP3**
1		**5WMP5**
1¼		**5WMP7**
1½		**5WMP9**
2	7⁄16	**5WMR1**
2½		**5WMR3**
3		**5WMR5**
4		**5WMR9**
5		**5WMT1**
6		**5WMT3**
7		**5WMT4**
8		**5WMT7**


Single Bolt No. 24T944


Two Bolt No. 24T954


Three Bolt No. 5WMP0


Four Bolt No. 5WMR9

Pipe Repair Clamps

Use to repair pipe without dismantling connections and to join pipes without threaded connections. Have 304 stainless steel band and Nitrile gasket.

Redi-Clamp®—Use for repairing pinhole leaks, punctures, and splits. Drop-in bolts allow easy installation. Ductile iron lugs and carbon steel nuts and bolts.

Full Circle—Fabricated stainless steel lugs can be installed in tight spaces and may be used to join plain pipe of the same diameter. 304 stainless steel stud bolts. Single-band clamps have 360° gasket seal for support, and a "keeper bar" that helps close clamp during installation. Steel nuts and bolts.



Redi-Clamp®
No. 4NWP2



Full Circle
No. 4NWT8

Pipe Size	Redi-Clamp® 3" Length Item No.	6" Length Item No.	9" Length Item No.	12" Length Item No.
¾"	4NWP2	—	—	—
1"	—	4NWP3	—	—
1½"	4NWP4	4NWP5	—	—
2"	4NWP6	4NWP7	4NWP8	4NWP9
3"	4NWR1	4NWR2	4NWR3	4NWR4
4"	4NWR5	4NWR6	4NWR7	4NWR8
6"	4NWR9	4NWT1	4NWT2	4NWT3
8"	4NWT4	4NWT5	4NWT6	4NWT7

Pipe Size	Full Circle, Fabricated Stainless Steel Lugs 7½" Length Item No.	12½" Length Item No.	15" Length Item No.	Full Circle, Single Band Ductile Lugs 7½" Length Item No.	12½" Length Item No.	15" Length Item No.
2"	4NWT8	5LGJ6	4NWT9	4NWN1	5LGK7	4NWN2
3"	4NWU1	5LGJ7	4NWU2	4NWN3	5LGK8	4NWN4
4"	4NWU3	5LGJ8	4NWU4	4NWN5	5LGK9	4NWN6
6"	4NWU5	5LGJ9	4NWU6	4NWN7	5LGL0	4NWN8
8"	4NWU7	5LGK0	4NWU8	4NWN9	5LGL1	4NWP1
10"	5LGK1	5LGK2	5LGK3	5LGL2	5LGL3	5LGL4
12"	5LGK4	5LGK5	5LGK6	5LGL5	5LGL6	5LGL7

Single, Weld Plate
No. 2UKP6





Twin, Weld Plate
No. 2UKR9



Mounting Rail
No. 2UKW5

Weld-Plate and Rail-Mount Vibration Reduction Clamps

- Max. pressure: 1500 psi
- Temp. range: -22° to 194°F

Easy-to-assemble clamps are welded in place or rail mounted to secure hoses, piping, and tubing. Ribs in clamp bore and polypropylene cushioning reduce wear due to vibration, rubbing, and chafing. Meet ASSE standards.

Smooth Bore, Single—Chamfered, smooth core helps to reduce wear and extend the life of hoses.

Single Clamps—Recommended for systems without dynamic loads.

Twin Clamps—Ideal for general-duty applications subject to moderate levels of shock and vibration.

Single Line, Rail-Mount—Use with steel mounting rail No. 2UKW5 (sold separately) to install multiple clamps side-by-side. Once mounted, clamps can be slid along rail for proper alignment.

FOR HOSE

Hose Size	L	W	H	Item No.
Smooth Bore, Single, Weld Plate				
Steel Hardware				
0.81"	1.96"	1.20"	1.61"	2UKW8
0.93"	1.96"		1.61"	2UKW9
1.10"	2.28"		1.88"	2UKX1
1.42"	2.75"		2.52"	2UKX2

FOR TUBE

Tube Size	L	W	H	Item No.
Single, Weld Plate				
Steel Hardware				
⅜"	1.41"	1.20"	1.25"	2UKP1
⅜"	1.41"		1.25"	2UKP2
½"	1.65"		1.54"	2UKP3
⅝"	1.65"		1.54"	2UKP4
¾"	2.04"		1.61"	2UKP5
⅞"	2.04"		1.61"	2UKP6
1"	2.04"		1.61"	2UKP7
1¼"	2.83"		2.52"	2UKP8
1½"	2.83"		2.52"	2UKP9
2"	3.46"		2.83"	2UKR1
Stainless Steel Hardware				
⅜"	1.41"	1.20"	1.25"	2UKL9
½"	1.65"		1.54"	2UKN2
¾"	2.04"		1.61"	2UKN4
1"	2.04"		1.61"	2UKN5
Single Line, Rail-Mount				
Steel Hardware				
½"	1.65"	1.20"	1.54"	2UKU8
¾"	2.04"		1.61"	2UKV1
1"	2.04"		1.61"	2UKV3
1½"	2.83"		2.52"	2UKV5
2"	3.46"		2.83"	2UKV6

FOR TUBE

Tube Size	L	W	H	Item No.
Twin, Weld Plate				
Steel Hardware				
¼"	1.45"	1.20"	1.69"	2UKR9
⅜"	1.45"		1.69"	2UKT1
½"	2.16"		1.71"	2UKT2
⅝"	2.16"		1.71"	2UKT3
¾"	2.75"		2.14"	2UKT4
⅞"	2.75"		2.14"	2UKT5
1"	2.75"		2.14"	2UKT6
1¼"	4.33"		2.81"	2UKT7
1½"	4.33"		2.81"	2UKT8

FOR PIPE

Pipe Size	L	W	H	Item No.
Single, Weld Plate				
Steel Hardware				
½"	2.04"	1.20"	1.61"	2UKR4
¾"	2.36"		1.88"	2UKR5
1"	2.83"		2.52"	2UKR6
1¼"	2.83"		2.52"	2UKR7
1½"	3.46"		2.83"	2UKR8
Stainless Steel Hardware				
½"	1.96"	1.20"	1.61"	2UKN8
¾"	2.28"		1.88"	2UKN9
Single Line, Rail-Mount				
Steel Hardware				
½"	2.04"	1.20"	1.61"	2UKV9
¾"	2.36"		1.88"	2UKW1
1"	2.83"		2.52"	2UKW2
1¼"	2.83"		2.52"	2UKW3
1½"	3.46"		2.83"	2UKW4
Twin, Weld Plate				
Steel Hardware				
½"	2.75"	1.20"	2.14"	2UKU2
¾"	3.34"		2.34"	2UKU3

L	W	H	Item No.
Mounting Rails			
39"	28mm	11mm	2UKW5



Double, Stacking
No. 4TKZ5



Single, Bolt Plate
No. 4TKW1



Single, Rail Mount
No. 4WFR8



Single, Weld Plate
No. 4WFL4



Twin, Weld Plate
No. 4WFZ3

Pipe Clamps and Supports

BEHRINGER®

Use to secure tubing and pipe, while reducing noise and vibration.

Bolt Plate Mounting—Include a base plate with bolt holes to secure clamp.

Rail Mounting—Can be mounted directly to a single channel using rail nuts.

Weld Plate Mounting—Clamps include weld plate for welding directly to the support structure.

Single and Double Clamps with Santoprene™ Insert—Smooth bore helps prevent bacteria and debris from collecting; also dampens and absorbs vibration.

For high-purity and washdown applications.

Single Clamps with Polypropylene Insert—Heavy-duty clamps withstand shock and vibration of hydraulic systems up to 5000 psi.

Twin Clamps with Polypropylene Insert—Use to manage multiple lines; withstand shock and vibration of hydraulic systems to 1500 psi.

FOR TUBE

Tube Size	L	W	H	Item No.
Double, Stacking — Santoprene™ Insert				
316 Stainless Steel Hardware				
1"	3.34"	1.22"	2.63"	4TKZ5
2"	3.34"		2.63"	4TLA3
2"	5.00"		4.38"	4TLA4
2½"	5.00"		4.38"	4TLA6
3"	5.00"		4.38"	4TLA8
Single, Bolt Plate — Santoprene™ Insert				
316 Stainless Steel Hardware				
¼"	4.88"	1.22"	2.88"	4TKW5
⅜"	4.88"		2.88"	4TKW6
½"	3.50"		1.63"	4TKW1
½"	4.88"		2.88"	4TKW7
⅝"	4.88"		2.88"	4TKW8
¾"	3.50"		1.63"	4TKW2
¾"	4.88"		2.88"	4TKW9
⅞"	4.88"		2.88"	4TKX2
1"	3.50"		1.63"	4TKW4
1"	4.88"		2.88"	4TKX3
1¼"	4.88"		2.88"	4TKX5
1½"	4.88"		2.88"	4TKX7
2"	4.88"		2.88"	4TKY1
2"	6.50"		4.63"	4TKY2
2½"	6.50"		4.63"	4TKY4
3"	6.50"		4.63"	4TKY6
4"	7.19"		5.05"	4TKY8

FOR TUBE

Tube Size	L	W	H	Item No.
Single, Rail Mount — Polypropylene Insert				
304 Stainless Steel Hardware				
¼"	2.25"	1.22"	1.69"	4WFR5
⅜"	2.25"		1.69"	4WFR6
½"	2.25"		1.69"	4WFR8
⅝"	2.25"		1.69"	4WFT1
¾"	2.75"	1.25"	2.19"	4WFT3
⅞"	2.75"		2.19"	4WFT6
1"	2.75"		2.19"	4WFT7
1¼"	3.34"		2.69"	4WFU1
1½"	3.34"		2.69"	4WFU3
2"	4.50"	1.75"	3.88"	4WFU7
2¾"	4.50"		3.88"	4WFV3
30mm	2.75"	1.25"	2.19"	4WFT9
Carbon Steel Hardware				
⅜"	2.25"	1.22"	1.69"	4WFG9
½"	2.25"		1.69"	4WFH2
¾"	2.75"		2.19"	4WFH6
⅞"	2.75"	1.25"	2.19"	4WFH9
1"	2.75"		2.19"	4WFJ1
1¼"	3.34"		2.69"	4WFJ4
1½"	3.34"		2.69"	4WFJ6
2⅛"	4.50"		3.88"	4WFK2
2¼"	4.50"	1.75"	3.88"	4WFK3
2½"	4.50"		3.88"	4WFK5
2¾"	4.50"		3.88"	4WFK6
3"	6.00"	2.25"	5.13"	4WFK8
20mm	2.75"	1.25"	2.19"	4WFH7

CONTINUED

CONTINUED

Pipe Clamps and Supports BEHRINGER®

FOR TUBE

Tube Size	L	W	H	Item No.
Single, Weld Plate — Polypropylene Insert				
304 Stainless Steel Hardware				
¼"	2.88"		2.00"	**4WFL1**
⅜"	2.88"		2.00"	**4WFL2**
½"	2.88"	1.25"	2.00"	**4WFL4**
¾"	3.38"		1.50"	**4WFL8**
1"	3.38"		1.50"	**4WFN3**
1¼"	4.00"		3.00"	**4WFN6**
1¾"	5.88"		4.25"	**4WFP1**
2"	5.88"	1.75"	4.25"	**4WFP3**
2⅛"	5.88"		4.25"	**4WFP4**
2¼"	5.88"		4.25"	**4WFP5**
2¾"	7.38"	2.25"	5.50"	**4WFP8**
3"	7.38"		5.50"	**4WFR1**
4"	10.00"	3.00"	7.63"	**4WFR3**
20mm	3.38"	1.25"	1.50"	**4WFL9**
30mm	3.38"		1.50"	**4WFN5**

FOR TUBE

Tube Size	L	W	H	Item No.
Carbon Steel Hardware				
¼"	2.88"		2.00"	**4TLC1**
⅜"	2.88"		2.00"	**4WFD5**
½"	2.88"		2.00"	**4WFD7**
⅝"	2.88"		2.00"	**4WFD9**
¾"	3.38"	1.25"	1.50"	**4WFE2**
⅞"	3.38"		1.50"	**4WFE5**
1"	3.38"		1.50"	**4WFE6**
1¼"	4.00"		3.00"	**4WFE9**
1½"	4.00"		3.00"	**4WFF2**
1¾"	5.88"		4.25"	**4WFF4**
2"	5.88"		4.25"	**4WFF6**
2¼"	5.88"	1.75"	4.25"	**4WFF8**
2½"	5.88"		4.25"	**4WFG1**
2¾"	5.88"		4.25"	**4WFG2**
3"	7.38"	2.25"	5.50"	**4WFG4**
3½"	7.38"		5.50"	**4WFG5**
4½"	10.00"	3.00"	7.63"	**4WFG7**
20mm	3.38"	1.25"	1.50"	**4WFE3**
30mm	3.38"		1.50"	**4WFE8**
Single, Weld Plate — Santoprene™ Insert				
316 Stainless Steel Hardware				
½"	3.34"		2.88"	**4TKT7**
⅝"	3.34"		2.88"	**4TKT8**
¾"	3.34"		2.88"	**4TKT9**
1"	3.34"		2.88"	**4TKU3**
1½"	3.34"		2.88"	**4TKU7**
2"	3.34"	1.22"	2.88"	**4TKV1**
2"	5.00"		4.63"	**4TKV2**
2½"	5.00"		4.63"	**4TKV4**
3"	5.00"		4.63"	**4TKV6**
3½"	5.00"		4.63"	**4TKV7**
4"	5.77"		5.05"	**4TKV8**

FOR TUBE

Tube Size	L	W	H	Item No.
Twin, Rail Mount — Polypropylene Insert				
Zinc-Plated Steel Hardware				
¼"	2.19"		1.25"	**4WFX4**
⅜"	2.19"		1.25"	**4WFX5**
½"	2.19"		1.25"	**4WFX6**
⅝"	2.19"		1.25"	**4WFX8**
¾"	2.69"	1.19"	1.75"	**4WFX9**
1"	2.69"		1.75"	**4WFY3**
1⅛"	3.19"		2.00"	**4WFY5**
1¼"	4.06"		2.50"	**4WFY6**
1½"	4.06"		2.50"	**4WFY8**
Twin, Weld Plate — Polypropylene Insert				
304 Stainless Steel Hardware				
⅜"	2.19"		1.44"	**4WFZ2**
½"	2.19"	1.19"	1.44"	**4WFZ3**
¾"	2.69"		1.94"	**4WFZ6**
Zinc-Plated Hardware				
¼"	2.19"		1.44"	**4WFV7**
⅜"	2.19"		1.44"	**4WFV8**
½"	2.19"		1.44"	**4WFV9**
¾"	2.69"		1.94"	**4WFW3**
⅞"	2.69"	1.19"	1.94"	**4WFW5**
1"	2.69"		1.94"	**4WFW6**
1⅛"	3.19"		2.19"	**4WFW8**
1¼"	4.06"		2.69"	**4WFW9**
1½"	4.06"		2.69"	**4WFX2**

FOR PIPE

Tube Size	L	W	H	Item No.
Double, Stacking — Santoprene Insert				
316 Stainless Steel Hardware				
½"	3.34"		2.63"	**4TKZ3**
1"	3.34"		2.63"	**4TKZ8**
1¼"	3.34"	1.22"	2.63"	**4TLA1**
2"	5.00"		4.38"	**4TLA5**
3½"	5.00"		4.38"	**4TLA9**
Single, Bolt Plate — Santoprene™ Insert				
316 Stainless Steel Hardware				
½"	3.50"		1.63"	**4TKW3**
½"	4.88"		2.88"	**4TKX1**
1.05"	4.88"	1.22"	2.88"	**4TKX4**
1"	4.88"		2.88"	**4TKX6**
1½"	4.88"		2.88"	**4TKX9**
Single, Rail Mount — Polypropylene Insert				
304 Stainless Steel Hardware				
⅛"	2.25"		1.69"	**4WFR7**
¼"	2.25"	1.25"	1.69"	**4WFR9**
⅜"	2.25"		1.69"	**4WFT2**
2"	4.50"	1.75"	3.88"	**4WFV1**
Carbon Steel Hardware				
½"	2.75"		2.19"	**4WFH8**
¾"	2.75"	1.25"	2.19"	**4WFJ2**
1"	3.34"		2.69"	**4WFJ5**
1¼"	3.34"		2.69"	**4WFJ7**
1½"	4.50"	1.75"	3.88"	**4WFJ9**
2"	4.50"		3.88"	**4WFK4**

FOR PIPE

Tube Size	L	W	H	Item No.
Single, Weld Plate — Polypropylene Insert				
304 Stainless Steel Hardware				
⅛"	2.88"		2.00"	**4WFL3**
¼"	2.88"		2.00"	**4WFL5**
⅜"	2.88"	1.25"	2.00"	**4WFL7**
1"	4.00"		3.00"	**4WFN7**
1¼"	4.00"		3.00"	**4WFN9**
2½"	7.38"	2.25"	5.50"	**4WFP9**
3½"	7.38"		5.50"	**4WFR2**
Carbon Steel Hardware				
¼"	2.88"		2.00"	**4WFD8**
⅜"	2.88"		2.00"	**4WFE1**
½"	3.38"	1.25"	1.50"	**4WFE4**
1"	4.00"		3.00"	**4WFF1**
1¼"	4.00"		3.00"	**4WFF3**
1½"	5.88"	1.75"	4.25"	**4WFF5**
2"	5.88"		4.25"	**4WFF9**
Twin, Rail Mount — Polypropylene Insert				
Zinc-Plated Hardware				
¾"	3.19"	1.19"	2.00"	**4WFY4**
1"	4.06"		2.50"	**4WFY7**
Twin, Weld Plate — Polypropylene Insert				
Zinc-Plated Hardware				
¼"	2.19"		1.44"	**4WFW1**
½"	2.69"		1.94"	**4WFW4**
¾"	3.19"	1.19"	2.19"	**4WFW7**
1"	4.06"		2.69"	**4WFX1**
1¼"	4.06"		2.69"	**4WFX3**

Anti-Corrosion Tube Clamps

STAUFF®

- Max. pressure: 2000 psi
- Temp. range: -13° to 194°F

Feature corrosion-resistant 316 stainless steel material with a clamp body that's flame-retardant, UV-stabilized construction. Designed to reduce the effects of pipe corrosion and have drainage channels to aid in water dispersal. Meet API RP 552, NACE SP 0108-2008, dimensional standards to DIN 3015-1, and fully interchangeable.



No. 49AG39



No. 49AG01

Tube Size	L	W	H	Item No.
Anti-Corrosion Strut Mount Standard Clamp				
¼"	1.54"	1.54"	1.40"	**49AG22**
5⁄16"	1.54"	1.54"	1.40"	**49AG23**
⅜"	1.54"	1.54"	1.40"	**49AG24**
½"	1.77"	1.77"	1.63"	**49AG27**
9⁄16"	1.77"	1.77"	1.63"	**49AG29**
⅝"	1.77"	1.77"	1.63"	**49AG31**
¾"	2.05"	2.05"	1.75"	**49AG33**
1"	2.05"	2.05"	1.75"	**49AG37**
1"	2.32"	2.32"	1.99"	**49AG39**
1¼"	2.80"	2.80"	2.62"	**49AG41**
1½"	2.80"	2.80"	2.62"	**49AG43**
6mm	1.54"	1.54"	1.40"	**49AG21**
12mm	1.54"	1.54"	1.40"	**49AG26**
14mm	1.77"	1.77"	1.63"	**49AG28**
15mm	1.77"	1.77"	1.63"	**49AG30**
18mm	1.77"	1.77"	1.63"	**49AG32**
20mm	2.05"	2.05"	1.75"	**49AG34**
25mm	2.05"	2.05"	1.75"	**49AG36**
30mm	2.32"	2.32"	1.99"	**49AG40**
35mm	2.80"	2.80"	2.62"	**49AG42**

Tube Size	L	W	H	Item No.
Anti-Corrosion Strut Mount Twin Clamp				
¼" x ¼"	1.42"	1.42"	1.55"	**49AG58**
⅜" x ⅜"	1.42"	1.42"	1.55"	**49AG59**
½" x ½"	2.09"	2.09"	1.61"	**49AG62**
¾" x ¾"	2.64"	2.64"	2.01"	**49AG65**
1" x 1"	2.64"	2.64"	2.01"	**49AG68**
6x6mm	1.42"	1.42"	1.55"	**49AG57**
12x12mm	1.42"	1.42"	1.55"	**49AG61**
14x14mm	2.09"	2.09"	1.61"	**49AG63**
18x18mm	2.64"	2.64"	2.01"	**49AG64**
20x20mm	2.64"	2.64"	2.01"	**49AG66**

Tube Size	L	W	H	Item No.
Anti-Corrosion Weld Mount Standard Clamp				
¼"	1.46"	1.46"	1.46"	**49AF97**
5⁄16"	1.46"	1.46"	1.46"	**49AF98**
⅜"	1.46"	1.46"	1.46"	**49AF99**
½"	1.65"	1.65"	1.69"	**49AG03**
9⁄16"	1.65"	1.65"	1.69"	**49AG05**
⅝"	1.65"	1.65"	1.69"	**49AG07**
¾"	1.97"	1.97"	1.81"	**49AG09**
1"	1.97"	1.97"	1.81"	**49AG13**
1¼"	2.80"	2.80"	2.68"	**49AG17**
1½"	2.80"	2.80"	2.68"	**49AG19**
6mm	1.46"	1.46"	1.46"	**49AF96**
12mm	1.46"	1.46"	1.46"	**49AG02**
14mm	1.65"	1.65"	1.69"	**49AG04**
15mm	1.65"	1.65"	1.69"	**49AG06**
18mm	1.65"	1.65"	1.69"	**49AG08**
20mm	1.97"	1.97"	1.81"	**49AG10**
25mm	1.97"	1.97"	1.81"	**49AG12**
28mm	2.36"	2.36"	2.05"	**49AG15**
30mm	2.36"	2.36"	2.05"	**49AG16**
35mm	2.80"	2.80"	2.68"	**49AG18**

Tube Size	L	W	H	Item No.
Anti-Corrosion Weld Mount Twin Clamp				
¼" x ¼"	1.46"	1.46"	1.61"	**49AG46**
⅜" x ⅜"	1.46"	1.46"	1.61"	**49AG47**
½" x ½"	2.17"	2.17"	1.73"	**49AG50**
¾" x ¾"	2.76"	2.76"	2.13"	**49AG53**
1" x 1"	2.76"	2.76"	2.13"	**49AG56**
6x6mm	1.46"	1.46"	1.61"	**49AG45**
12x12mm	1.46"	1.46"	1.61"	**49AG49**
14x14mm	2.17"	2.17"	1.73"	**49AG51**
18x18mm	2.76"	2.76"	2.13"	**49AG52**
20x20mm	2.76"	2.76"	2.13"	**49AG54**

Pipe Size	L	W	H	Item No.
Anti-Corrosion Strut Mount Standard Clamp				
⅛"	1.54"	1.54"	1.40"	**49AG25**
½"	2.05"	2.05"	1.75"	**49AG35**
¾"	2.32"	2.32"	1.99"	**49AG38**
1¼"	2.80"	2.80"	2.62"	**49AG44**
Anti-Corrosion Strut Mount Twin Clamp				
⅛"	1.42"	1.42"	1.55"	**49AG60**
½"	2.64"	2.64"	2.01"	**49AG67**
Anti-Corrosion Weld Mount Standard Clamp				
⅛"	1.46"	1.46"	1.46"	**49AG01**
½"	1.97"	1.97"	1.81"	**49AG11**
¾"	2.36"	2.36"	2.05"	**49AG14**
1¼"	2.80"	2.80"	2.68"	**49AG20**
Anti-Corrosion Weld Mount Twin Clamp				
⅛"	1.46"	1.46"	1.61"	**49AG48**
½"	2.76"	2.76"	2.13"	**49AG55**

Alpha Series™ Cushioned U-Bolts

ZSI

Zinc-plated steel, full-contact hangers provide total load distribution and eliminate knife-edge loading. Bolts prevent lateral movement and provide a positive lock.

For Pipe Size	Max. Load (lb.)	Inside Width	Electro-Galvanized Steel Item No.	316 Stainless Steel Item No.
½"	485	1 23⁄64"	**4MWE9**	**4MWF1**
¾"	485	1 35⁄64"	**4MWG7**	**4MWG8**
1"	485	1 51⁄64"	**4MWE5**	**4MWE6**
1¼"	1220	2 3⁄16"	**4MWF4**	**4MWF5**
1½"	1220	2 1⁄16"	**4MWF2**	**4MWF3**
2"	1220	2 3⁄16"	**4MWG1**	—
2"	1220	2 63⁄64"	—	**4MWG2**

For Pipe Size	Max. Load (lb.)	Inside Width	Electro-Galvanized Steel Item No.	316 Stainless Steel Item No.
2½"	2260	3⅜"	**4MWG3**	**4MWG4**
3"	2260	4"	**4MWG5**	**4MWG6**
3½"	2260	4½"	**4MWG9**	**4MWH1**
4"	2260	5"	**4MWH2**	**4MWH3**
5"	2260	6 1⁄16"	**4MWH4**	**4MWH5**
6"	3620	7 5⁄32"	**4MWH6**	**4MWH7**
8"	3620	9 1⁄32"	**4MWJ1**	**4MWJ2**



No. 4MWE5

Safety Spray Shields

- ANSI Class #150

Totally enclose flange for complete spray protection. Shields are UV and chemical resistant. Install with hook-and-loop fasteners and drawstrings.

PTFE

- Max. temp.: 450°F

Constructed of 3-ply multilayered reinforced PTFE-coated glass cloth, PTFE thread, and drawstring. PTFE stiffener lines the inside for additional protection. Include pH indicating patch.

PVC

- Max. temp.: 170°F

Constructed of reinforced yellow polyvinyl chloride cloth, white polyester thread, and drawstring. Include pH indicating patch.

POLYETHYLENE

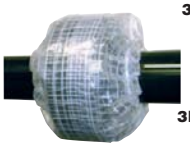
- Max. temp.: 170°F

Constructed of transparent reinforced polyethylene cloth, white polyethylene thread, and drawstring.

Pipe Size	PTFE Item No.	PVC Item No.	Polyethylene Item No.
½"	3KHL6	3KHL5	3KHL4
¾"	3KHL9	3KHL8	3KHL7
1"	3KHN3	3KHN2	3KHN1
1½"	3KHN6	3KHN5	3KHN4
2"	3KHN9	3KHN8	3KHN7
3"	3KHP3	3KHP2	3KHP1
4"	9MJU2	3KHP5	3KHP4
6"	3KHP9	3KHP8	3KHP7
8"	3KHR3	3KHR2	3KHR1
10"	3KHR6	3KHR5	3KHR4
12"	3KHR9	3KHR8	3KHR7



No. 3KHN8



No. 3KHL4

Adjustable Pipe Saddle Supports


No. 4LVD5


No. 5LWT9


No. 4LVA9

Cradle and support pipe during and after installation; also provide support for stationary pipe during vertical adjustment (approximately 4½"). Adjustable supports meet Fed. Spec. A-A-1192A (Type 38) and WW-H-171-E (Type 39), MSS SP-69, and MSS SP-58 (Type 38). Insulation shields meet Fed. Spec. A-A-1192A (Type 40), WW-H-171-E (Type 41), MSS SP-69, & MSS SP-58 (Type 40).

Pipe Size	Max. Load	Cast Iron Finish	Vertical Adj. Min.	Vertical Adj. Max.	Item No.	Cast Iron W/Steel Yoke Finish	Vertical Adj. Min.	Vertical Adj. Max.	Item No.
2½"		Black	8"	13"	5LWT1	—	—	—	—
2½"		Galvanized	8"	13"	4LVD5	—	—	—	—
3"	1800 lb.	Black	8¼"	13¼"	5LWT2	—	—	—	—
3"		Galvanized	8¼"	13¼"	4LVD6	—	—	—	—
3½"		Galvanized	8½"	13½"	4LVD7	—	—	—	—
4"		Black	9¼"	14"	5LWT3	Black	9½"	14"	5LWT9
4"		Galvanized	9¼"	14"	4LVD8	—	—	—	—
5"		Black	10"	14¾"	5LWT4	Black	10⅛"	14⅜"	5LWU0
5"	3800 lb.	Galvanized	10"	14¾"	4LVD9	—	—	—	—
6"		Black	10½"	15¼"	5LWT5	Black	10¾"	15¼"	5LWU1
6"		Galvanized	10½"	15¼"	4LVE1	—	—	—	—
8"		Black	11¾"	16½"	5LWT6	—	—	—	—
8"	3800 lb.	—	—	—	—	Black	12¼"	16¾"	5LWU2
8"		Galvanized	11¾"	16½"	4LVE2	—	—	—	—
10"	3800 lb.	Black	13½"	18¼"	5LWT7	Black	13¾"	18¼"	5LWU3
12"		Black	15"	19¾"	5LWT8	Black	14⅜"	19⅛"	5LWU4

Galvanized and Black—Include cast-iron saddle, locknut nipple, and cast-iron reducer.

Cast Iron with Steel Yoke—Include cast-iron saddle, steel yoke and nuts, locknut nipple, and cast-iron reducer.

Insulation Protection Shields—Help distribute loads to keep the vapor barrier intact and to keep outside foam and fiberglass insulation from being crushed. Galvanized carbon steel.

Pipe Size	Insulation Thickness	Gauge	Type	Insulation Protection Shields Item No.
½ to 1"	½ to ¾"	18	1A	4LVA9
¾ to 1½"	½ to ¾"	18	2A	4LVC1
¾ to 2"	½ to 1"	18	3A	4LVC2
¾ to 2½"	½ to 1½"	18	4A	4LVC3
1 to 3"	1 to 2"	18	7A	4LVC6
1½ to 4"	1 to 2"	16	8A	4LVC7
2½ to 4"	1½ to 2"	16	9A	4LVC8
6-8"	1 to 2"	16	12B	4LVD4


No. 6WYC7


No. 6MRC3


No. 4LFC9


No. 4LFJ3

Fiberglass Pipe Insulation

GA Pipe Fitting Insulation—Preformed fiberglass insulation for 90° elbows and tees eases installation and provides for greater thermal performance. Includes matching PVC cover. Installs with 1" Pipe Fitting Insulation Tape No. 6WXE4, sold separately. Use 3" Pipe Insulation Tape No. 4LFJ3 to seal butt joints. Insulation meets ASTM C547 and C300 Series.
- Application temp. range: 0° to 450°F
- White color

Owens Corning® Fiberglas™ Pipe Insulation—The pressure sensitive adhesive system features a self-sealing flap to ease installation. GREENGUARD Certified.
- 3-ft. lengths
- Service temp. range: 0° to 1000°F
- White color jacket

MINIMUM QUANTITY OF 3" WIDE ASJ TAPE ROLLS REQUIRED		
Iron Pipe or Copper Tube Size (in.)	No. of Sections per 25-ft. Roll	No. of Sections per 150-ft. Roll
½ to 1⅜	up to 10	up to 60
1½ to 3⅛	up to 8	up to 48
4 to 6	up to 5	up to 30

Example: 15 sections of 1.0" nominal pipe size would require two 25-ft. rolls of tape.

Owens Corning® ASJ Max Fiberglas™ Pipe Insulation—Cleanable, encapsulated paper jacket doesn't support mildew or mold growth. Jacket resists moisture during intermittent, short duration precipitation exposure during installation (with joints sealed per installation guidelines). SSL® Max closure system provides a tight, reliable seal without glue or staples. Certified by SCS Global Services to contain a minimum of 53% recycled glass content, 31% pre-consumer and 22% post-consumer. GREENGUARD Gold Certified. Meets UL 723, ASTM E84, and CAN/ULC S-102, ASTM C547, and ASTM C1136, Types I – IV.
- 3-ft. lengths
- Service temp. range: 0° to 1000°F (with heat-up schedule)
- White color

Owens Corning® 3"-Wide Pipe Insulation Tape—Seals end joints and completes the closure systems.
- Service temp. range: 25° to 110°F (ambient)
- Service temp. range: -20° to 150°F
- White color jacket

Owens Corning® 1"-Wide Pipe Fitting Insulation Tape—Vinyl pressure-sensitive tape for joining pipe and fitting insulation.
- White color jacket

Insulation Nominal I.D.	Copper Tube Size (Nom. I.D. Plumbing)	Copper Tube Size (O.D. HVAC/R)	Fits Pipe Size - Pipe Insulation	90° Elbow Wall Thickness - Insulation 1" Item No.	1½" Item No.	2" Item No.	Tee Wall Thickness - Insulation 1" Item No.	1½" Item No.	2" Item No.
GA—Pipe Fitting Insulation									
½"	—	—	½"	6WYC7	6MPW7	6MPX7	6MRC3	6MRD3	6MRE3
⅜"	½"	⅜"		6MPY7	6MPZ6	—	6MRF3	6MRG2	—
¾"	—	—	¾"	6WYC8	6MPW8	6MPX8	6MRC4	6MRD4	6MRE4
⅞"	¾"	⅞"		6MPY8	6MPZ7	—	6MRF4	6MRG3	6MRH1
⅞"	¾"	⅛"	1"	—	—	6MRA5	—	—	—
1"	—	—	1"	6WYC9	6MPW9	6MPX9	6MRC5	6MRD5	6MRE5
1⅛"	1"	1⅛"		6MPY9	6MPZ8	6MRA6	6MRF5	6MRG4	6MRH2
1¼"	—	—	1¼"	6WYD0	6MPX0	6MPY0	6MRC6	6MRD6	6MRE6
1⅜"	1¼"	1⅜"		6MPZ0	6MPZ9	6MRA7	6MRF6	6MRG5	6MRH3
1½"	—	—	1"	—	6MPX1	6MPY1	6MRC7	6MRD7	6MRE7
1½"	—	—	1½"	6WYD1	—	—	—	—	—
1⅝"	1½"	1⅝"		6MPZ1	6MRA0	6MRA8	6MRF7	6MRG6	6MRH4
2"	—	—	2"	6WYD2	6MPX2	6MPY2	6MRC8	6MRD8	6MRE8
2⅛"	2"	2⅛"		6MPZ2	6MRA1	6MRA9	6MRF8	6MRG7	6MRH5
2½"	—	—	2½"	6WYD3	—	—	—	—	—
2½"	—	—	1"	—	6MPX3	6MPY3	6MRC9	6MRD9	6MRE9
2⅝"	2½"	2⅝"		6MPZ3	6MRA2	6MRC0	6MRF9	6MRG8	6MRH6
3"	—	—	3"	6WYD4	6MPX4	6MPY4	6MRD0	6MRE0	6MRF0
3⅛"	3"	3⅛"		6MPZ4	6MRA3	6MRC1	6MRG0	6MRG9	6MRH7
4"	—	—	4"	6WYD5	6MPX5	6MPY5	6MRD1	6MRE1	6MRF1
4⅛"	4"	4⅛"		6MPZ5	6MRA4	6MRC2	6MRG1	6MRH0	6WXE3
5"	—	—	5"	6MPW6	6MPX6	6MPY6	6MRD2	6MRE2	6MRF2

Fits Pipe Size - Pipe Insulation	Fits Tube Size	Insulation Nominal I.D.	Wall Thickness - Insulation ½" Item No.	1" Item No.	1½" Item No.	2" Item No.
Owens Corning®—Fiberglas® Pipe Insulation						
¾"	1⅛"	1¾64"	40PP22	—	—	—
1"	1⅜"	1²⅝64"	40PP32	—	—	—
1¼"	1⅝"	1¹¹⁄16"	40PP33	—	—	—
1½"	2⅛"	2³⁄32"	40PP18	—	—	—
3"	3½"	3¹⁷⁄32"	—	—	—	40PP20
Owens Corning®—ASJ MAX Fiberglas™ Pipe Insulation						
⅜"	⅝"	⅝"	—	4LFG6	4LFH2	—
½"	⅞"	⅞"	—	4LFC9	4LFE2	4LFF4
¾"	1⅛"	1¾64"	—	4LFD1	4LFE3	4LFF5
1"	1⅜"	1²⅝64"	—	4LFD2	4LFE4	4LFF6
1¼"	1⅝"	1¹¹⁄16"	—	4LFD3	4LFE5	4LFF7
1½"	—	1⁵⅝64"	—	4LFD4	4LFE6	4LFF8
—	2⅛"	2³⁄32"	—	4LFG7	4LFH3	4LFH7
2"	—	2¹³⁄32"	—	4LFD5	4LFE7	4LFF9
—	2⅝"	2²¹⁄32"	—	4LFG8	4LFH4	4LFH8
2½"	—	2²⁹⁄32"	—	4LFD6	4LFE8	4LFG1
—	3⅛"	3³⁄32"	—	4LFG9	4LFH5	4LFH9
3"	—	3¹⁷⁄32"	—	4LFD7	4LFE9	—
—	4⅛"	4³⁄32"	—	4LFH1	4LFH6	4LFJ1
4"	—	4¹¹⁄32"	—	4LFD8	4LFF1	4LFG3
5"	—	5⁴¹⁄64"	—	4LFD9	4LFF2	4LFG4
6"	—	6⁴⁵⁄64"	—	4LFE1	4LFF3	4LFG5
10"	—	10"	—	—	4LFG2	—

Description	Temp. Range	Item No.
Owens Corning®—3"-Wide Pipe Insulation Tape		
3" x 150-ft. Roll	0 to 150°F	4LFJ3

Description	Temp. Range	Item No.
Owens Corning™—1"-Wide Pipe Fitting Insulation Tape		
1" x 108-ft. Roll	0° to 150°F	6WXE4


No. 6TEE0


No. 6TEF9

No. 6ZKJ3

Johns Manville

Fiberglass Pipe Insulated Fitting Covers and Insulated Jacketing

- White color

Easily fit around pipe to create a protective barrier. Suitable for indoor or outdoor use on chilled water, hot water, steam and other piping systems in commercial, industrial, and institutional applications. Insulated Fitting Covers, when combined with Insulated Jacketing and PVC solvent cement (sold on page 2819), can form a sealed system suitable for washdown applications in food, beverage, and pharmaceutical facilities. Comply with ASTM D257, D638, D790, D792, D1784, D3679, E84, E136; USDA, ICBO, SBCCI, and BOCA.

FIBERGLASS INSULATED FITTING COVERS

- Temp. range: -32° to 150°F
- R-value: 3.5

Fit over bare pipe elbows; include insert. PVC and fiberglass construction.

PVC INSULATED PIPE JACKET

- 4-ft. lengths
- Temp. range: -30° to 150°F

Fits over bare pipes and pipe insulation. PVC construction.

Fits Max. O.D.	Approx. R Value	90° Elbow Item No.	End Cap Item No.	Tee Item No.
Fiberglass Insulated Fitting Covers				
1½"		6TEE0	6TEF9	6TEC1
2"		6TEE1	6TEG0	6TEC2
2¼"		6TEE2	6TEG1	6TEC3
2½"		6TEE3	6TEG2	6TEC4
2¾"		6TEE4	6TEG3	6TEC5
3"		6TEE5	6TEG4	6TEC6
3¼"		6TEE6	6TEG5	6TEC7
3⅜"		6TEE7	6TEG6	6TEC8
4"		6TEE8	6TEG7	6TEC9
4½"	3.5	6TEE9	6TEG8	6TED0
5⅛"		6TEF0	6TEG9	6TED1
5⅝"		6TEF1	6TEH0	6TED2
6⅛"		6TEF2	6TEH1	6TED3
6⅝"		6TEF3	6TEH2	6TED4
7⅛"		6TEF4	6TEH3	6TED5
7⅝"		6TEF5	6TEH4	6TED6
8⅝"		6TEF6	6TEH5	6TED7
9⅝"		6TEF7	6TEH6	6TED8
10¾"		6TEF8	6TEH7	6TED9

Fits Max. O.D.	Thickness	Item No.
PVC Insulated Pipe Jacket		
2"		6TEH8
2½"		6TEH9
3"		6ZKJ1
3½"		6ZKJ2
4"		6ZKJ3
4½"		6ZKJ4
5"		6ZKJ5
5½"	0.02	6ZKJ6
6"		6ZKJ7
6½"		6ZKJ8
7½"		6ZKJ9
8½"		6ZKK0
9½"		6ZKK1
10¾"		6ZKK2

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	INSUL-TUBE® ⅜" Wall Thickness Item No.	½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
Pipe Insulation - Unslit						
⅝"	⅝"	⅜"	3F399	3F404	3F409	1WZF3
¾"	¾"	½"	—	1WZC8	1WZE1	1WZF4
⅞"	⅞"	½"	3F400	3F405	3F410	1WZF5
1⅛"	1⅛"	¾"	3F401	3F406	3F411	1WZF6
1⅜"	1⅜"	1"	3F402	3F407	3F412	1WZF7
1⅝"	1⅝"	1¼"	3F403	3F408	3F413	1WZF8
2"	—	1½"	—	1WZC9	1WZE2	1WZF9
2⅛"	2⅛"	—	—	1WZD1	1WZE3	1WZG1
2⅜"	—	2"	—	1WZD2	1WZE4	1WZG2
2⅝"	2⅝"	—	—	1WZD3	1WZE5	1WZG3
2⅞"	—	2½"	—	1WZD4	1WZE6	1WZG4
3⅛"	3⅛"	—	—	1WZD5	1WZE7	1WZG5
3½"	—	3"	—	1WZD6	1WZE8	1WZG6
3⅝"	3⅝"	3"	—	1WZD7	1WZE9	1WZG7
4⅛"	4⅛"	3½"	—	1WZD8	1WZF1	1WZG8
4½"	—	4"	—	1WZD9	1WZF2	1WZG9

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	INSUL-LOCK® DS (DOUBLE SEAL) ½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
Pipe Insulation - Pre-Slit/Pre-Glued with Overflap					
⅝"	⅝"	⅜"	40PN71	40PN75	40PP15
¾"	¾"	1"	40PN84	40PN98	40PN89
⅞"	⅞"	½"	40PN93	40PP13	40PN79
1⅛"	1⅛"	¾"	40PN95	40PN96	40PN73
1⅜"	1⅜"	1"	40PN82	40PN83	40PP09
1⅝"	1⅝"	1¼"	40PN88	40PP02	40PN69
2"	2"	1½"	40PN81	—	—
2"	—	1½"	—	40PN70	—
2"	1⅛"	1½"	—	—	40PP12
2⅛"	2⅛"	1"	40PP10	—	40PN78
2⅛"	2⅛"	—	—	40PP08	—
2⅜"	—	2"	40PP11	—	—
2⅜"	2"	2"	—	40PN80	—
2⅜"	1¼"	2"	—	—	40PN90
2⅝"	2⅝"	2½"	40PN72	—	—
2⅝"	2⅝"	1"	—	40PN85	40PN77
2⅞"	1⅛"	2½"	40PP01	40PP14	40PN74
3⅛"	3⅛"	1"	—	40PN87	—
3⅛"	3⅛"	—	40PN86	—	—
3⅛"	3⅛"	3⅛"	—	—	40PP16
3½"	3½"	3"	40PN99	40PP03	40PN92
3⅝"	3⅝"	1"	40PP06	40PN94	40PP05
4⅛"	4⅛"	3½"	40PN97	40PN76	40PN68
4½"	4½"	4"	40PP04	40PP07	40PN91

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	90° ELBOW ½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.	TEE ½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
Fitting Insulation, Black								
½"	½"	¼"	—	—	4NRD2	—	—	—
⅝"	⅝"	⅜"	4NPY6	4NRA4	4NRD3	4NRE9	4NRG5	4NRJ2
¾"	¾"	½"	4NPY7	4NRA5	4NRD4	4NRF1	4NRG6	4NRJ3
⅞"	⅞"	—	4NPY8	4NRA6	4NRD5	4NRF2	4NRG7	4NRJ4
1⅛"	1⅛"	¾"	4NPY9	4NRA7	4NRD6	4NRF3	4NRG8	4NRJ5
1⅜"	1⅜"	1"	4NPZ1	4NRA8	4NRD7	4NRF4	4NRG9	4NRJ6
1⅝"	1⅝"	1¼"	4NPZ2	4NRA9	4NRD8	4NRF5	4NRH1	4NRJ7
2"	—	1½"	4NPZ3	4NRC1	4NRD9	4NRF6	4NRH2	4NRJ8
2⅛"	2⅛"	—	4NPZ4	4NRC2	4NRE1	4NRF7	4NRH3	4NRJ9
2⅜"	—	2"	4NPZ5	4NRC3	4NRE2	4NRF8	4NRH4	4WLN4
2⅝"	2⅝"	—	4NPZ6	4NRC4	4NRE3	4NRF9	4NRH5	4WLN5
2⅞"	—	2½"	4NPZ7	4NRC5	4NRE4	4NRG1	4NRH6	—
3⅛"	3⅛"	—	4NPZ8	4NRC6	4NRE5	4NRG2	4NRH7	4WLN7
3½"	—	3"	4NPZ9	4NRC7	—	4NRG3	—	—
3⅝"	3⅝"	—	4NRA1	4NRC8	4NRE6	—	4NRH8	—
4⅛"	4⅛"	3½"	4NRA2	4NRC9	4NRE7	4NRG4	4NRH9	4WLN9
4½"	—	4"	4NRA3	4NRD1	4NRE8	—	4NRJ1	4WLP1


Insul-Tube®, Unslit No. 3F399


Insul-Lock® DS (Double Seal) No. 40PN68


90° Elbow Insulation No. 4NPY6


Tee, Insulation No. 4NRE9

K-FLEX USA

Flexible Elastomeric (Rubber) Closed-Cell Pipe Insulation

PIPE INSULATION

- 6-ft. lengths

Elastomeric material retards heat loss, prevents condensation, and provides effective moisture vapor resistance. Environmentally friendly and CFC-free. Mold- and mildew-resistant, fiber-free, and nondusting. Can be used in underground applications above the water table. Seal before back-filling. Meets ASTM C 411, C 534 Type 1, D 1056-00-2B1, and E 84 2" 25/50 tested according to UL 723 and NFPA 255. CAN/ULC S102-M88, FMRC 2006 Approval Guide Chapter 14, NFPA 90A Sect. 2.3.3, and FM Approved. Meets UL 94-5V Flammability Classification (Recognition No. E300774) and UL 181 Sections 11.0 and 16.0.

Insul-Tube®

- Temp. range: -297° to 220°F
- MIL-P-15280, for tubing

Unslit tubing can be slit lengthwise and fit over existing pipes. Seal with No. 3F417 contact adhesive, see page 2835.

Insul-Lock® DS (Double Seal)

- Temp. range: -70° to 220°F

Preslit, preglued tubing has factory-applied pressure-sensitive adhesive on the seam, plus flexible PVC overlap tape with acrylic adhesive for added security.

FITTING INSULATION

- Temp. range: -297° to 220°F

K-Fit® prefabricated insulation is easier to install and provides a cleaner appearance than field-constructed insulation. Designed to fit over elbows and tees with no additional cutting or molding. Can be used for hot/cold water, chilled water, refrigeration, and air conditioning applications. Meets UL 94 and GREENGUARD Certified.



Pipe Insulation Tape



Adhesive


Noise Absorber


Brush Can


Protective Jacketing


Noise Barrier

Elastomeric Pipe Insulation K-FLEX USA

K-FLEX® PIPE INSULATION TAPE

No. 45AT32 is cork-filled and rubber-based while No. 45AR72 is a closed cell, flexible elastomeric foam. Nos. 45AT32 and 45AR72 have a pressure-sensitive adhesive and are ideal for insulating short pipe runs or valves where installing tubing insulation is not practical. Nos. 52JR59 to 52JR62 have a smooth and tough surface that's easy to clean and is weather-, UV-, and abuse-resistant. Nos. 52JR59 and 52JR60 are ideal for outdoor use.

K-FLEX® MOUNTING ACCESSORIES

Adhesives help provide a permanent flexible bond over a wide variety of substrates. No. 45AR67 is for use with Nos. 45AT25 and 45AT35 jacketing. No. 45AR81 is for use with Nos. 45AR89 and 45AT18 jacketing.

K-FLEX CLAD® PROTECTIVE JACKETING

- Temp. range: -40° to 220°F

Nos. 45AR89 and 45AT18 are a flexible, nonmetallic, polymeric (CPE/PVC) protective jacketing that resists acids, chemicals, corrosion under insulation, humidity, moisture vapor intrusion, oils, and salt spray. Material is ideal for paper and pulp mills, industrial plants, and in marine applications. Nos. 45AT25 and 45AT35 are a multi-ply, laminate jacketing constructed of a PVC backing, and aluminum foil coated with a white protective polyester film. The puncture and dent-resistant jacketing has an outer film that is dirt and chemical resistant, and ideal for washdown and cleanroom applications.

K-FONIK® AB NOISE ABSORBER

- Temp. range: -40° to 185°F

This flexible, open-cell sound absorber is made from recycled, closed-cell foam particles bonded together. Use to decrease transmission noise on large pipes in most industrial applications.

K-FLEX DUCT® LINER

This fiber-free, closed-cell, flexible elastomeric foam insulation features sound absorption, moisture resistance, low thermal conductivity, and does not need additional facing. Its ideal for use as an acoustical/thermal insulation liner in industrial and commercial HVAC ducts.

L	W	Material	Color	Temp. Range	Item No.
Clad Insulation Seam Seal					
75 ft.	2"	Polymeric	Beige	-297° to 220°F	45AR52
	2"	Polymeric	Gray	-297° to 220°F	45AT12
	4"	Polymeric	Black	-297° to 220°F	45AT49
	4"	Polymeric	Gray	-297° to 220°F	45AT23
K-FLEX® Pipe Insulation Tape					
30 ft.	2"	Cork/Rubber	Black	-20° to 190°F	45AT32
	2"	NBR/PVC	Black	-40° to 220°F	45AR72 *
	2"	NBR/PVC	Black	-40° to 220°F	45AT38 *
45 ft.	6"	Aluminum	Silver	-20° to 150°F	45AR57
	6"	Aluminum	White	-20° to 150°F	45AR37
100 ft.	2"	Aluminum	Silver	-20° to 150°F	52JR59
	2"	PVC	White	-20° to 150°F	52JR61
	4"	Aluminum	Silver	-20° to 150°F	52JR60
	4"	PVC	White	-20° to 150°F	52JR62
150 ft.	3"	Aluminum	Silver	-31° to 176°F	45AR23
	3"	Aluminum	Silver	-31° to 248°F	45AR45
	4"	Aluminum	Silver	-31° to 176°F	45AT17

** No. 45AR72 is 1/4" thick. No. 45AT38 is 1/8" thick.*

Description	Material	Curing Time	Color	Temp. Range	Item No.
K-FLEX® Mounting Accessories					
Adhesive, 10 oz.	Silane-Terminated Polymer	24 hr.	White	40° to 220°F	45AR67
Adhesive, 1 qt.	Polychloroprene	30 min.	Gray	30° to 220°F	45AR81
Brush Can, 10 oz.					45AT57
Brush, For Use With No. 45AT57 Can					45AR69
Caulk, 10 oz., For Use With Clad WT Jacketing					45AR87

Insulation Length	Fits Max. O.D.	Thickness	Insulation Color	Insulation Jacket Material	Item No.
K-FLEX CLAD® Protective Jacketing					
75 ft.	39"	0.03	Black	Polymeric	45AR89
	40"	0.03	Gray	Polymeric	45AT18
	48"	0.03	White	PVC/Mylar	45AT25
	48"	0.03	White	PVC/Mylar	45AT35

L	W	Thickness	Color	Material	Item No.
K-FONIK® AB Noise Absorber					
78'	59"	1"	Black	PVC/NBR	45AR11
	59"	1"	Black	PVC/NBR	45AR22
	59"	1"	Black	NBR/PVC Based Elastomeric	45AR41
	59"	1"	Black	NBR/PVC Based Elastomeric	45AR94

Thickness	Noise Reduction Coefficient (NRC)	W	Includes	Temp. Range	Item No.
K-FLEX Duct® Liner					
25 ft. Length					
2"	0.55	46¼"	Roll	-297° to 220°F	45AT19
		47"	Roll	-297° to 220°F	45AR96
		48"	Roll	-297° to 220°F	45AT16
		56¼"	Roll	-297° to 220°F	45AR86
		59"	Roll	-297° to 220°F	45AT29
		60"	Roll with PSA	-297° to 220°F	45AR70
35 ft. Length					
1.5"	0.55	46¼"	Roll	-297° to 220°F	45AT33
		46¼"	Roll with PSA	-40° to 200°F	45AT13
		47"	Roll	-297° to 220°F	45AR95
		47"	Roll with PSA	-40° to 200°F	45AR43
		48"	Roll	-297° to 300°F	45AR21
		48"	Roll with PSA	-40° to 200°F	45AR71
		56¼"	Roll	-297° to 220°F	45AR49
		56¼"	Roll with PSA	-40° to 200°F	45AR55
		59"	Roll	-297° to 220°F	45AT42
		59"	Roll	-297° to 300°F	45AR18
		60"	Roll	-297° to 220°F	45AR63
		60"	Roll	-40° to 200°F	45AR73
50 ft. Length					
0.5"	0.10	47"	Roll	-297° to 220°F	45AT41
1"	0.55	46¼"	Roll	-40° to 200°F	45AR79
		47"	Roll	-297° to 300°F	45AR26
		47"	Roll with PSA	-40° to 200°F	45AR47
		48"	Roll	-297° to 220°F	45AT34
		48"	Roll with PSA	-40° to 200°F	45AT06
		56¼"	Roll	-297° to 220°F	45AR91
		56¼"	Roll with PSA	-40° to 200°F	45AT50
		59"	Roll	-297° to 220°F	45AT39
		59"	Roll with PSA	-40° to 200°F	45AT36
		60"	Roll	-297° to 220°F	45AT30
		60"	Roll with PSA	-40° to 200°F	45AR99
100 ft. Length					
0.5"	0.10	46¼"	Roll with PSA	-297° to 300°F	45AR25
		47"	Roll with PSA	-297° to 300°F	45AR28
		48"	Roll	-297° to 220°F	45AT51
		48"	Roll with PSA	-40° to 200°F	45AR54
		56¼"	Roll	-297° to 220°F	45AT10
		56¼"	Roll	-40° to 200°F	45AR92
		59"	Roll	-297° to 220°F	45AR76
		59"	Roll with PSA	-297° to 300°F	45AR16
		60"	Roll	-297° to 300°F	45AR30
		60"	Roll with PSA	-297° to 300°F	45AR14
Noise Barrier					
50 ft. Length					
0.05"		48"	Sheet	-40° to 158°F	45AT28
25 ft. Length					
0.15"		48"	Sheet	-40° to 158°F	45AR32
		48"	Sheet	-40° to 158°F	45AR85
50 ft. Length					
0.07"		48"	Sheet	-40° to 158°F	45AR34
0.10"		48"	Sheet	-40° to 158°F	45AT24

Flexible, Halogen-Free Elastomeric (Rubber) Pipe and Fitting Insulation

K-FLEX USA

No. 4NPV4



- Temp. range: -297° to 250°F
- Green color

K-Flex ECO™ Pipe Insulation—Will not contribute to stress crack corrosion on high-temperature stainless steel applications. Can be used in solar hot water, low-pressure steam, food processing, cleanroom, and marine applications. Complies with IMO and Solas specifications. Meets stringent testing for U.S. Navy combat ships, as described in the Electric Boat Specifications EB 4013.

K-Flex ECO™ Pipe Fitting and Sheet Insulation—Prefabricated fittings are easier to install and provide a cleaner appearance than field-constructed fittings. Designed to fit over elbows and tees with no additional cutting or molding. Can be used for hot/cold water, chilled water, refrigeration, and air conditioning applications. ECO™ Sheets can be cut to size for specific applications.

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	¾" Wall Thickness Item No.
K-Flex ECO™ Pipe Insulation			
⅝"	⅝"	⅜"	4NPV4
⅞"	⅞"	½"	4NPV5
1"	1⅛"	¾"	4NPV6
1⅛"	1⅛"	¾"	4NPV7
1⅜"	1⅜"	1"	4NPV8
1⅝"	1⅝"	1¼"	4NPV9
2"	—	1½"	4NPW1
2⅛"	2⅛"	—	4NPW2
2⅜"	—	2"	4NPW3
2⅝"	—	2½"	4NPW4
3½"	—	3"	4NPW5
4"	4⅛"	3½"	4NPW6
4½"	—	4"	4NPW7

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	¾" Wall Thickness 90° Elbow Item No.	Tee Item No.
K-Flex ECO™ Pipe Fitting Insulation				
⅝"	⅝"	⅜"	4NRK1	—
¾"	¾"	½"	4NRK2	4NRL9
⅞"	⅞"	—	4NRK3	—
1⅛"	1⅛"	¾"	4NRK4	4NRN2
1⅜"	1⅜"	1"	4NRK5	4NRN3
1⅝"	1⅝"	1¼"	4NRK6	4NRN4
2"	—	1½"	4NRK7	4NRN5
2⅛"	2⅛"	—	4NRK8	4NRN6
2⅜"	—	2"	4NRK9	4NRN7
2⅝"	2⅝"	—	4NRL1	4NRN8
2⅞"	—	2½"	4NRL2	4NRN9
3⅛"	3⅛"	—	4NRL3	—
3½"	—	3"	4NRL4	4NRP2
4⅛"	4⅛"	3½"	4NRL6	—

Insulation Sheet Size	½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
K-Flex ECO™ Sheets			
36" x 48"	4NPW8	4NPW9	4NPX1

Flexible Tundra® Polyolefin Pipe Insulation

armacell®

- 6-ft. lengths

Help prevent heat gain and condensation or frost formation on water and air conditioning lines. Use with 320 or 620 contact adhesive or other approved sealing system. Polyethylene construction. Meet ASTM C 1427.

PRE-SLIT, BLACK

- Temp. range: -160° to 200°F

Quickly slide over pipe or tubing. Slit lengthwise when applying to existing tubes.

PRE-SLIT/PRE GLUED, BLACK

- Temp. range: -160° to 200°F

Preslit, self-sealing tubing has factory-applied adhesive and built-in release tabs. Can be pushed around P-traps and elbows up to and including 1" copper tube size. Mitering is recommended for complex joints.

PRE-SLIT/PRE GLUED, WHITE

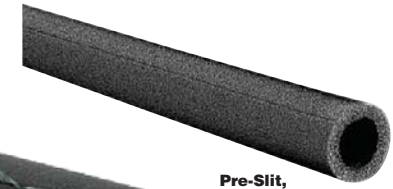
- Temp. range: -330° to 210°F
- FlowGuard Gold compatible

Ideal for use in cleanrooms, hospitals, and any application where pipes are exposed, and aesthetics are important. ASTM C 1427; ASTM E 84; ASTM E 84, 25/50 flame and smoke rating. CAN/ULC S102.2-M88. City of LA Report RR8316. Dade Co. FL Acceptance 95-1215.08. NYC MEA 305-93.

INSULATION SHEETS

- Temp. range: -330° to 210°F

Closed cell design and flexibility is ideal for wrapping large pipes, tanks and vessels. GREENGUARD certified for use in hospitals and schools. ASTM E 84, 25/50 flame and smoke rating.



Pre-Slit, Black



Pre-Slit/Pre Glued, Black



Pre-Slit/Pre Glued, White



Insulation Sheet, Black

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	⅜" Wall Thickness Item No.	½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
Pre-Slit, Black						
⅝"	⅝"	⅜"	2KUC5	2KUD8	2CKA9	—
¾"	¾"	½"	—	2KUD9	2CKC1	2CKD7
⅞"	⅞"	½"	2KUC6	2KUE1	2CKC2	—
1⅛"	1⅛"	¾"	2KUC7	2KUE2	2CKC3	—
1⅜"	1⅜"	1"	—	2KUE3	2CKC4	—
1⅝"	1⅝"	1¼"	2KUD1	2KUE4	2CKC5	—
2"	—	1½"	2KUD2	2KUE5	2CKC6	2CKD8
2⅛"	2⅛"	—	2KUD3	2KUE6	2CKC7	2CKD9
2⅜"	—	2"	2KUD4	2KUE7	2CKC8	2CKE1
2⅝"	2⅝"	—	2KUD5	2CKA2	2CKC9	2CKE2
Pre-Slit/Pre Glued, Black						
⅜"	⅜"	⅛"	2CKE7	2CKG5	2CKJ7	2CKL9
½"	½"	⅛"	2CKE8	2CKG6	2CKJ8	2CKN1
⅝"	⅝"	⅜"	2CKE9	2CKG7	2CKJ9	2CKN2
¾"	¾"	½"	2CKF1	2CKG8	2CKK1	2CKN3
⅞"	⅞"	½"	2CKF2	2CKG9	2CKK2	2CKN4
1⅛"	1⅛"	¾"	2CKF4	2CKH2	2CKK4	2CKN6
1⅜"	1⅜"	1"	2CKF6	2CKH4	2CKK6	2CKN8
1⅝"	1⅝"	1¼"	2CKF7	2CKH5	2CKK7	2CKN9

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	⅜" Wall Thickness Item No.	½" Wall Thickness Item No.	¾" Wall Thickness Item No.	1" Wall Thickness Item No.
2"	—	1½"	2CKF8	2CKH6	2CKK8	2CKP1
2⅛"	2⅛"	—	2CKF9	2CKH7	2CKK9	2CKP2
2⅜"	—	2"	2CKG1	2CKH8	2CKL1	2CKP3
2⅝"	2⅝"	—	2CKG2	2CKH9	2CKL2	2CKP4
2⅞"	—	2½"	2CKG3	2CKJ1	2CKL3	—
3⅛"	3⅛"	—	2CKG4	2CKJ2	2CKL4	2CKP6
3½"	—	3"	—	2CKJ3	2CKL5	2CKP7
3⅝"	3⅝"	3"	—	2CKJ4	—	—
4⅛"	4⅛"	3½"	—	2CKJ5	2CKL7	2CKP9
4½"	—	4"	—	2CKJ6	2CKL8	2CKR1

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	½" Wall Thickness Item No.	1" Wall Thickness Item No.
Pre-Slit/Pre Glued, White				
⅝"	⅝"	⅜"	4DHN3	4DHN9
⅞"	⅞"	½"	4DHN4	4DHP1
1⅛"	1⅛"	¾"	4DHN5	—
1⅝"	1⅝"	1¼"	4DHN7	4DHP4
2⅛"	2⅛"	—	4DHN8	—

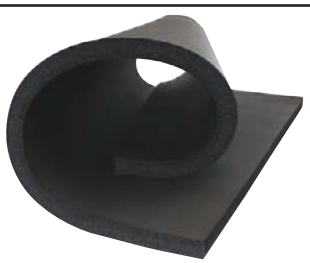
Sheet Size	Wall Thickness	Item No.
Insulation Sheet, Black		
36" x 48"	½"	4NLN6
36" x 48"	¾"	4NLN7
36" x 48"	1"	4NLN8

K-FLEX USA

Insul-Sheet® S2S Insulation

- Temp. range: -297° to 220°F
- Environmentally friendly; CFC-free

Insulates ductwork, pipes, fittings, and tanks. Highly flexible with a durable skin that resists solvents and chemicals. Smooth surfaces improve adhesive coverage.



No. 3F415

PSA BACKING

Peel-and-stick backing allows fast installation; eliminates adhesive-related spills, VOCs, and odors.

Wall Thickness - Insulation	Insulation Sheet Size	Insulation Approx. R Value	PSA Backing Item No.	Skin on Two Sides Item No.
½"	36" x 48"	2.00	4VZR5	3F414
¾"	36" x 48"	3.00	4VZR6	3F415
1"	36" x 48"	4.00	4VZR7	3F416

K-FLEX USA

Contact Adhesives

Air dry to form a resilient, moisture-resistant bond in 3 to 4 min. under normal conditions. Excellent for joining seams and butt joints of Insul-Tube® and Insul-Sheet®. No. 3F417 can also be used with Therma-Cel®.



No. 3F417

Color	Size	Temp. Range (F)	Mfr. Model	Item No.
Amber	1 pt.	Up to 200°	800-320-PTB	3F417
Black	1 pt.	Up to 200°	800-620-PTB	4VZR8

K-FLEX USA

Aluminum Pipe Insulation

- 3-ft. lengths
- Temp. range: -297° to 220°F
- Silver color

K-Flex Clad® aluminum insulation is adhered to an outer polypropylene sheet, and laminated to an aluminum foil cladding that provides resistance to acids, alkali, salts, oil, fats, and aliphatic hydrocarbons. Impermeable to gases and moisture. Protects against abuse, impact, and UV rays.

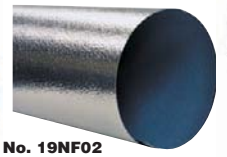
Wall Thickness - Insulation	Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	Insulation Approx. R Value	Item No.
½"	⅝"	⅝"	⅜"	3.00	1WZL2
	¾"	¾"	½"	3.00	1WZL3
	⅞"	⅞"	½"	3.00	1WZL4
	1⅛"	1⅛"	¾"	2.90	1WZL5
	1⅝"	1⅝"	1¼"	2.90	1WZL7
	2⅛"	2⅛"	—	2.80	1WZL9
1"	⅝"	⅝"	⅜"	7.20	1WZN1
	⅞"	⅞"	½"	7.00	1WZN3
	1⅛"	1⅛"	¾"	6.60	1WZN4
	1⅜"	1⅜"	1"	6.80	1WZN5
	1⅝"	1⅝"	1¼"	6.60	1WZN6
	2"	—	1½"	6.30	1WZN7
	2⅛"	2⅛"	—	6.10	1WZN8



K-Flex Clad® Aluminum


No. 19NF34


No. 19NF19


No. 19NF02



No. 19NF32

AEROFLEX USA, INC.

ITW INSULATION SYSTEMS

Pipe Insulation and Aluminum Jacketing

PIPE INSULATION

- Temp. range: -297° to 300°F

EPDM rubber-based elastomeric material is flexible, lightweight, UV resistant, and requires no outdoor weather protection. Insulation is noncorrosive to copper or stainless steel, requires no vapor barrier, and is paintable. Can be used on hot liquid heating systems, cold water plumbing, and chilled water and refrigeration lines to control condensation formation. Meets ASTM C534, C692, D635, E84, and E96.

JACKETING ALUMINUM ELBOWS

Help protect insulation and underlying pipe or vessel from corrosive atmospheres, physical damage, UV exposure, and water. Feature a 3-mil thick polysurlyn moisture barrier laminated to the inside surface to help prevent corrosion of the underlying metal pipe. Suitable for standard outdoor use on horizontal tanks, pipe, and vertical tank insulation systems. Meets ASTM C1371, C1729, and E84.

INSULATED PIPE JACKET

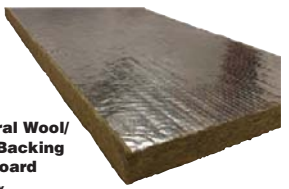
Aluminum material helps protect mechanical insulation systems including equipment, pipe, and vessels. Features a 3-mil thick polysurlyn moisture barrier laminated to the inside surface to help prevent corrosion of the jacketing and the underlying equipment, metal pipe, or vessel. Ideal for use on all standard outdoor pipe, vertical tank insulation systems up to 8-ft. dia., and all horizontal tanks. Meets ASTM C1371, C1729, and E84.

Insulation Nominal I.D.	Brand	Insulation Approx. R Value: 1.53 Wall Insulation Length	1.53 Wall Thickness - Insulation	1.53 Wall Item No.	2.04 Wall Insulation Length	2.04 Wall Thickness - Insulation	2.04 Wall Item No.	3.06 Wall Insulation Length	3.06 Wall Thickness - Insulation	3.06 Wall Item No.	4.08 Wall Insulation Length	4.08 Wall Thickness - Insulation	4.08 Wall Item No.
Pipe Insulation													
¼"	Aeroflex	6 ft.	⅜"	19NF34	6 ft.	½"	19NF53	6 ft.	¾"	19NF77	6 ft.	1"	19NG02
⅜"	Aeroflex	6 ft.	⅜"	19NF35	6 ft.	½"	19NF54	6 ft.	¾"	19NF78	6 ft.	1"	19NG03
½"	Aeroflex	6 ft.	⅜"	19NF36	6 ft.	½"	19NF55	6 ft.	¾"	19NF79	6 ft.	1"	19NG04
⅝"	Aeroflex	6 ft.	⅜"	19NF37	6 ft.	½"	19NF56	6 ft.	¾"	19NF80	6 ft.	1"	19NG05
¾"	Aeroflex	6 ft.	⅜"	19NF38	6 ft.	½"	19NF57	6 ft.	¾"	19NF81	6 ft.	1"	19NG06
⅞"	Aeroflex	6 ft.	⅜"	19NF39	6 ft.	½"	19NF58	6 ft.	¾"	19NF82	6 ft.	1"	19NG07
1⅛"	Aeroflex	6 ft.	⅜"	19NF40	6 ft.	½"	19NF59	6 ft.	¾"	19NF83	6 ft.	1"	19NG08
1⅜"	Aeroflex	6 ft.	⅜"	19NF41	6 ft.	½"	19NF60	6 ft.	¾"	19NF84	6 ft.	1"	19NG09
1⅝"	Aeroflex	6 ft.	⅜"	19NF42	6 ft.	½"	19NF61	6 ft.	¾"	19NF85	6 ft.	1"	19NG10
1⅞"	Aeroflex	6 ft.	⅜"	19NF43	6 ft.	½"	19NF62	6 ft.	¾"	19NF86	6 ft.	1"	19NG11
2⅛"	Aeroflex	6 ft.	⅜"	19NF44	6 ft.	½"	19NF63	6 ft.	¾"	19NF87	6 ft.	1"	19NG12
2⅜"	Aeroflex	6 ft.	⅜"	19NF45	6 ft.	½"	19NF64	6 ft.	¾"	19NF88	6 ft.	1"	19NG13
2⅝"	Aeroflex	6 ft.	⅜"	19NF46	6 ft.	½"	19NF65	6 ft.	¾"	19NF89	6 ft.	1"	19NG14
2⅞"	Aeroflex	6 ft.	⅜"	19NF47	6 ft.	½"	19NF66	6 ft.	¾"	19NF90	6 ft.	1"	19NG15
3⅛"	Aeroflex	6 ft.	⅜"	19NF48	6 ft.	½"	19NF67	6 ft.	¾"	19NF91	6 ft.	1"	19NG16
3½"	Aeroflex	6 ft.	⅜"	19NF49	6 ft.	½"	19NF68	6 ft.	¾"	19NF92	6 ft.	1"	19NG17
3⅝"	Aeroflex	6 ft.	⅜"	19NF50	6 ft.	½"	19NF69	6 ft.	¾"	19NF93	6 ft.	1"	19NG18
4⅛"	Aeroflex	6 ft.	⅜"	19NF51	6 ft.	½"	19NF70	6 ft.	¾"	19NF94	6 ft.	1"	19NG19
4½"	Aeroflex	6 ft.	⅜"	19NF52	6 ft.	½"	19NF71	6 ft.	¾"	19NF95	6 ft.	1"	19NG20
5½"	Aeroflex	—	—	—	6 ft.	½"	19NF72	6 ft.	¾"	19NF96	6 ft.	1"	19NG21
6⅛"	Aeroflex	—	—	—	6 ft.	½"	19NF73	6 ft.	¾"	19NF97	6 ft.	1"	19NG22
6⅝"	Aeroflex	—	—	—	6 ft.	½"	19NF74	6 ft.	¾"	19NF98	6 ft.	1"	19NG23

Fits Max. O.D.	Brand	45° Elbow Item No.	90° Elbow Item No.
Jacketing Aluminum Elbows			
3"	ITW	19NF19	19NF06
3½"	ITW	19NF20	19NF07
4"	ITW	19NF21	19NF08
4½"	ITW	19NF22	19NF09
5"	ITW	19NF23	19NF10
5½"	ITW	19NF24	19NF11
6⅝"	ITW	19NF25	19NF12
7⅝"	ITW	19NF26	19NF13
8⅝"	ITW	19NF27	19NF14
9⅝"	ITW	19NF28	19NF15
10¾"	ITW	19NF29	19NF16
11¾"	ITW	19NF30	19NF17
12¾"	ITW	19NF31	19NF18

Description	Fits Max. O.D.	Insulation Color	Insulation Length	Brand	Item No.
Insulated Pipe Jacket					
Vapor Barrier, Smooth Finish	36"	Silver	10 ft.	ITW	19NF03
Vapor Barrier, Smooth Finish	36"	Silver	25 ft.	ITW	19NF02
Vapor Barrier, Stucco Finish	10¾"	Silver	10 ft.	ITW	19NF05
Vapor Barrier, Stucco Finish	10¾"	Silver	25 ft.	ITW	19NF04

Color	Size	Brand	Item No.
Mastic			
White	1 gal.	ITW	19NF32
White	2 gal.	ITW	19NF33


Mineral Wool/ Foil Backing Board


Super Firetemp® Board

ROXUL The Better Insulation

IIG Industrial Insulation Group, LLC A Johns Manville Company

High Temperature Insulation

- Durable and noncombustible

MINERAL WOOL BOARD

- Temp. range: 0° to 1200°F

Lightweight material is rigid, water repellent, and ideal where compressive resistance is required. Insulation has excellent thermal resistance, is noncorrosive, and chemically inert. Suitable for use in high temp. applications including drying oven equipment, petrochemical and power generating equipment, and storage tanks. Meets ASTM C612 Type 1VB, E136, E84, C665, and C795.

SUPER FIRETEMP® BOARD

- Temp. range: 0° to 1700°F

Inorganic material is essentially dust-free and can be machined into a variety of shapes or sizes. Ideal for very high temp. applications including furnace wall structural supports and for use behind fire brick to help prevent thermal spalling. Meets ASTM C656, C795, E72, E119, E84, E136. UL 263, UL 1479, and UL 1709 Listed. NFPA 251 compliant.

Approx. R Value	L	W	Thickness	Brand	Item No.
Mineral Wool/Foil Backing Board, Dark Brown Color					
4	48"	24"	1"	Roxul	19NE81
Mineral Wool/Foil Backing Board, Green Color					
6	48"	24"	1½"	Roxul	19NE82
8	48"	24"	2"	Roxul	19NE83
12	48"	24"	3"	Roxul	19NE84
16	48"	24"	4"	Roxul	19NE85
Mineral Wool Board, Green Color					
4	48"	24"	1"	Roxul	19NE76
6	48"	24"	1½"	Roxul	19NE77
8	48"	24"	2"	Roxul	19NE78
12	48"	24"	3"	Roxul	19NE79
16	48"	24"	4"	Roxul	19NE80
Super Firetemp® Board, Calcium Silicate Material, White Color					
0.52	12"	12"	½"	IIG	19NE43
0.52	24"	48"	½"	IIG	19NE44
0.52	48"	48"	½"	IIG	19NE45
0.52	48"	96"	½"	IIG	19NE46
0.77	12"	12"	¾"	IIG	19NE47
0.77	24"	48"	¾"	IIG	19NE48
0.77	48"	48"	¾"	IIG	19NE49
0.77	48"	96"	¾"	IIG	19NE50
1.03	12"	12"	1"	IIG	19NE51
1.03	24"	48"	1"	IIG	19NE52
1.03	48"	48"	1"	IIG	19NE53
1.03	48"	96"	1"	IIG	19NE54
1.54	12"	12"	1½"	IIG	19NE55
1.54	24"	48"	1½"	IIG	19NE56
1.54	48"	48"	1½"	IIG	19NE57
1.54	48"	96"	1½"	IIG	19NE58

Approx. R Value	L	W	Thickness	Brand	Item No.
Super Firetemp® Board, Calcium Silicate Material, White Color, Extra Strength					
0.52	12"	12"	½"	IIG	19NE59
0.52	24"	48"	½"	IIG	19NE60
0.52	48"	48"	½"	IIG	19NE61
0.52	48"	96"	½"	IIG	19NE62
0.77	12"	12"	¾"	IIG	19NE63
0.77	24"	48"	¾"	IIG	19NE64
0.77	48"	48"	¾"	IIG	19NE65
0.77	48"	96"	¾"	IIG	19NE66
1.03	12"	12"	1"	IIG	19NE67
1.03	24"	48"	1"	IIG	19NE68
1.03	48"	48"	1"	IIG	19NE69
1.03	48"	96"	1"	IIG	19NE70
1.54	12"	12"	1½"	IIG	19NE71
1.54	24"	48"	1½"	IIG	19NE72
1.54	48"	48"	1½"	IIG	19NE73
1.54	48"	96"	1½"	IIG	19NE74

Material	Strength	Temp. Range	Color	Brand	Item No.
High Temperature Insulation					
Adhesive	Strong	0° to 1700°F	White	IIG	19NE75

Fiberglass and Cotton Duct Insulation

For use in commercial and industrial heating, air conditioning, and power and process equipment applications.

DUCT INSULATION – FROST KING

- Temp. range: 35° to 150°F (cotton), 35° to 250°F (fiberglass)
- 16"W x 48"L" (cotton), 12"W x 15 ft. L (fiberglass)

Easy-to-install insulation helps insulate, reduce vibration, and can be installed on air conditioning or heating ducts. Foil jacket. No. 48H491 is a natural cotton insulation made from recycled denim and meets ASTM E408. No. 48H490 meets NFPA 90A, NFPA 90B, and ASTM C1136 Type II.

DUCT INSULATION WRAP – JOHNS MANVILLE

- Temp. range: -32° to 250°F
- 48"W x 25"L

For HVAC systems that operate below ambient temperatures, and where temperature control and a vapor barrier are required. Insulation comes with a vapor barrier and a 2" stapling tab. Meets ASTM C411, C553, C665, C1104, C1136s, C1290, C1338, E84; NFPA 90A; UL, C-UL Listed.

DUCT INSULATION BOARD – JOHNS MANVILLE

- Temp. range: -32° to 450°F (unfaced side), -32° to 150°F (faced side)

For systems that operate below ambient temperatures and where a vapor barrier is required. Insulation has square corners for a finished appearance on duct and equipment systems. Cuts easily with a utility knife and can be secured with mechanical fasteners or adhesive. Meets ASTM C612, Type IA; C612 Type IB; C553 Type III, HH-I-558C, HH-I-558B; E-84; C795; C1136. Mil. Spec. I-24244C. NFPA255. NRC 1.36. UL Listed.


No. 6ZKK3

HIGH TEMPERATURE INSULATION – ITW

- Temp. range: -297° to 297°F
- 24"W x 48"L

Lightweight, moisture-resistant polyisocyanurate material has excellent thermal performance. Insulation features low moisture vapor permeability and good compressive strength. Density: 2#. Meets ASTM D1622, C518, E96, E84 at 1", D2126 Dimensional Stability.

Thickness	Density	Approx. R Value	Duct Insulation Material	Jacket Material: Foil Item No.	Jacket Material: All Service Jacket Item No.	Jacket Material: Foil Scrim Kraft Item No.
Duct Insulation, Frost King						
1"		4	Cotton	48H491	—	—
2"		6	Fiberglass	48H490	—	—
Duct Insulation Board, Johns Manville						
1"	3 lbs.	4.3	Fiberglass	—	6ZKK8	6ZKK5
1"	6 lbs.	4.5		—	6ZKL4	6ZKL1
1½"	3 lbs.	6.5		—	6ZKK9	6ZKK6
1½"	6 lbs.	6.8		—	6ZKL5	6ZKL2
2"	3 lbs.	8.7		—	6ZKL0	6ZKK7
2"	6 lbs.	9.1		—	6ZKL6	6ZKL3
Duct Insulation Wrap, Johns Manville						
1½"	¾ lbs.	4.2	Fiberglass	—	—	6ZKK3
1½"	1 lbs.	4.7		—	—	6ZKK4

Thickness	Approx. R Value	Facing	Item No.
High Temperature Insulation, ITW			
1"	5.3	Plain	19NE86
		FSK	19NE91
		ASJ	19NE96
1½"	7.9	Plain	19NE87
		FSK	19NE92
		ASJ	19NE97
2"	10.5	Plain	19NE88
		FSK	19NE93
		ASJ	19NE98
3"	15.8	Plain	19NE89
		FSK	19NE94
		ASJ	19NE99
4"	21.1	Plain	19NE90
		FSK	19NE95
		ASJ	19NF01

Pipe, Hose, and Valve Insulation

Insulated Throw Blankets and Pipe Jackets— Can reduce heat loss and insulate barrels, dies, extruders, hoses, and pipe. Removable and is reusable. Insulated Throw Blankets require a strap and buckle Nos. 34CY92, 34CY91, or 34CY90, sold separately below.

Accessories—Nos. 34CY92, 34CY91, and 34CY90 are durable fiberglass straps for installing insulated throw blankets. Feature steel roller buckles for easy adjustment and help ensure a secure fit. Nos. 34DA19 and 34DA20 allow you to measure high-temperature surfaces and are ideal for use when installing insulation.

Ceramic Fiber Blankets—Aluminum silicate fiber material is ideal for insulating pipes that transport high-temp. materials. Include hold-in-place straps on the inside and feature a top flap you can open to release heat if needed. Meet UL 723.

- Max. temp.: 2300°F, except No. 34DA14 is 2600°F

Valve Insulation—Reusable valve covers feature dual-layer mineral wool and fiberglass insulation, plus a durable silicone-coated fiberglass cloth jacket. Included adjustable draw cord and lacing anchors for a tight secure fit.

- Max. temp.: 900°F
- 3" thickness

Flange and Valve Insulation—Reusable insulation covers help reduce heat loss and energy costs. Silicone-coated fiberglass material is suitable for a variety of flange and valve sizes.

- Max. temp.: 900°F

Ceramic Fiber Insulation—Aluminum silicate fiber material is ideal for insulating pipes that transport high-temp. materials. Meet UL 723.

- Max. temp.: 2300°F, except No. 54TP62 is 2400°F

L	W	Thickness	Temp. Rating	Item No.
Insulated Throw Blankets				
12"	12"	1"	2000°F	34CZ03
	36"	1"	2000°F	48ZX05
24"	12"	1"	2000°F	34CZ02
	24"	1"	2000°F	34CY98
	36"	1"	2000°F	48ZX08
36"	12"	1"	2000°F	34CZ01
	24"	1"	2000°F	34CY97
	36"	1"	2000°F	34CY95
	36"	1"	2000°F	48ZX10
48"	12"	1"	2000°F	34CY99
	24"	1"	2000°F	34CY96
	36"	1"	2000°F	34CY94
	48"	1"	2000°F	34CY93
Insulated Pipe Jackets				
12"	18"	3"	200°F	48ZX52
	24"	3"	900°F	48ZY10
13"	2"	1"	2000°F	34CZ04
	4"	1"	2000°F	34CZ05
	5"	1"	2000°F	34CZ06
	6"	1"	2000°F	34CZ07
	8"	1"	2000°F	34CZ08
	10"	1"	2000°F	34CZ09
	12"	1"	2000°F	34CZ10
	14"	1"	2000°F	34CZ11
	16"	1"	2000°F	34CZ12
18"	18"	3"	200°F	48ZX56
	24"	3"	900°F	48ZY14
19"	2"	1"	2000°F	34CZ13
	4"	1"	2000°F	34CZ14
	5"	1"	2000°F	34CZ15
	6"	1"	2000°F	34CZ16
	8"	1"	2000°F	34CZ17
	10"	1"	2000°F	34CZ18
	12"	1"	2000°F	34CZ19
	14"	1"	2000°F	34CZ20
	16"	1"	2000°F	34CZ21
24"	18"	3"	200°F	48ZX60
25"	2"	1"	2000°F	34CZ22
	4"	1"	2000°F	34CZ23
	5"	1"	2000°F	34CZ24
	6"	1"	2000°F	34CZ25
	8"	1"	2000°F	34CZ26
	10"	1"	2000°F	34CZ27
	12"	1"	2000°F	34CZ28
	14"	1"	2000°F	34CZ29
	16"	1"	2000°F	34CZ30
30"	18"	3"	200°F	48ZX64
	24"	3"	900°F	48ZY18


No. 34CZ03


No. 34CY90



No. 34CZ04

L	W	Thickness	Temp. Rating	Item No.
	2"	1"	2000°F	34CZ31
	4"	1"	2000°F	34CZ32
	5"	1"	2000°F	34CZ33
	6"	1"	2000°F	34CZ34
31"	8"	1"	2000°F	34CZ35
	10"	1"	2000°F	34CZ36
	12"	1"	2000°F	34CZ37
	14"	1"	2000°F	34CZ38
	16"	1"	2000°F	34CZ39
	2"	1"	2000°F	34CZ40
	4"	1"	2000°F	34CZ41
	5"	1"	2000°F	34CZ42
	6"	1"	2000°F	34CZ43
38"	8"	1"	2000°F	34CZ44
	10"	1"	2000°F	34CZ45
	12"	1"	2000°F	34CZ46
	14"	1"	2000°F	34CZ47
	16"	1"	2000°F	34CZ48
	2"	1"	2000°F	34CZ49
	4"	1"	2000°F	34CZ50
	5"	1"	2000°F	34CZ51
	6"	1"	2000°F	34CZ52
43"	8"	1"	2000°F	34CZ53
	10"	1"	2000°F	34CZ54
	12"	1"	2000°F	34CZ55
	14"	1"	2000°F	34CZ56
	16"	1"	2000°F	34CZ57
48"	18"	3"	200°F	48ZX76
50"	2"	1"	2000°F	34CZ58
	4"	1"	2000°F	34CZ59
	5"	1"	2000°F	34CZ60
	6"	1"	2000°F	34CZ61
	8"	1"	2000°F	34CZ62
	10"	1"	2000°F	34CZ63
	12"	1"	2000°F	34CZ64
	14"	1"	2000°F	34CZ65
	16"	1"	2000°F	34CZ66


No. 34DA15

L	W	Thickness	Temp. Rating	Item No.
	2"	1"	2000°F	34CZ67
	4"	1"	2000°F	34CZ68
	5"	1"	2000°F	34CZ69
	6"	1"	2000°F	34CZ70
56"	8"	1"	2000°F	34CZ71
	10"	1"	2000°F	34CZ72
	12"	1"	2000°F	34CZ73
	14"	1"	2000°F	34CZ74
	16"	1"	2000°F	34CZ75
60"	18"	3"	200°F	48ZX80
63"	2"	1"	2000°F	34CZ76
	4"	1"	2000°F	34CZ77
	5"	1"	2000°F	34CZ78
	6"	1"	2000°F	34CZ79
	8"	1"	2000°F	34CZ80
	10"	1"	2000°F	34CZ81
	12"	1"	2000°F	34CZ82
	14"	1"	2000°F	34CZ83
	16"	1"	2000°F	34CZ84
	2"	1"	2000°F	34CZ85
	4"	1"	2000°F	34CZ86
	5"	1"	2000°F	34CZ87
	6"	1"	2000°F	34CZ88
68"	8"	1"	2000°F	34CZ89
	10"	1"	2000°F	34CZ90
	12"	1"	2000°F	34CZ91
	14"	1"	2000°F	34CZ92
	16"	1"	2000°F	34CZ93


No. 34CZ94

Description	For Use With/Function	Item No.
Accessories		
Straps with Buckles, 24"Lx 1"W	Insulation Throw Blankets	34CY92
Straps with Buckles, 36"Lx 1"W	Insulation Throw Blankets	34CY91
Straps with Buckles, 48"Lx 1"W	Insulation Throw Blankets	34CY90
Colloidal Silica Rigidizer	Ceramic Fibers	34DA15
Tape Measure	Used for Measuring Applications That Have A Very High Surface Temperature	34DA19
Magnetic Tip Tape Measure	Includes Magnets, Used for Metal Applications That Have A Very High Surface Temperature	34DA20
Lacing Set	Hook Needed to Lace Jacket Shut	23AR70
Lacing Wire	Wire Used to Lace Through Hooks	23AR71
C Rings	Clamps Through Insulation Jacket to Keep Contents Inside	23AR73

CONTINUED

CONTINUED

Pipe, Hose, and Valve Insulation

UNITHERM International Inc.

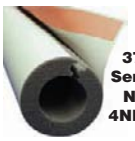
Insulation Approx. R Value @ 1000F	Insulation Length	Insulation Width	Insulation Density	Wall Thickness - Insulation	Item No.
Ceramic Fiber Blanket					
1.06	25 ft.	48"	6 cu. ft./lb.	1"	34DA11
1.06	12½ ft.	24"	6 cu. ft./lb.	2"	34DA12
1.06	12½ ft.	48"	6 cu. ft./lb.	2"	34DA13
0.75	25 ft.	24"	8 cu. ft./lb.	1"	34DA14

Fits Max. O.D.	L	Thickness	Item No.
Insulated Elbow Pipe Jacket			
0" to 2"	2"	3"	48ZY42
2" to 4"	4"		48ZY44
4" to 6"	6"		48ZY46

Approx. R Value	Valve Circumference Range	L	W	Item No.
Valve Insulation Heater				
0.48	0" to 7"	12"	18"	48ZX16
	7" to 13"	18"	18"	48ZX20
	13" to 19"	24"	18"	48ZX24
	19" to 25"	30"	18"	48ZX28
	25" to 31"	36"	18"	48ZX32
	31" to 37"	42"	18"	48ZX36
	37" to 42"	48"	18"	48ZX40
Valve Insulation				
0.48	0" to 7"	12"	18"	48ZX88
	7" to 13"	18"	18"	48ZX92
			6"	34CZ94
	13" to 19"	24"	12"	34CZ95
			18"	34CZ96
			24"	34CZ97
	19" to 25"	30"	24"	48ZX97
			6"	34CZ98
	25" to 31"	36"	12"	34CZ99
			18"	34DA01
			24"	34DA02
			6"	34DA03
	37" to 42"	48"	12"	34DA04
			18"	34DA05
			24"	34DA06
			6"	34DA07
	49" to 55"	60"	12"	34DA08
			18"	34DA09
			24"	34DA10

Approx. R Value	Valve Circumference Range	L	W	Thickness	Item No.
Flange and Valve Insulation					
.48	4" to 6"	24"	6"	2"	23AR54
			12"	2"	23AR55
			18"	2"	23AR56
			24"	2"	23AR57
	8" to 10"	36"	6"	2"	23AR58
			12"	2"	23AR59
			18"	2"	23AR60
			24"	2"	23AR61
	12" to 14"	48"	6"	2"	23AR62
			12"	2"	23AR63
			18"	2"	23AR64
			24"	2"	23AR65
	14" to 17"	60"	6"	2"	23AR66
			12"	2"	23AR67
			18"	2"	23AR68
			24"	2"	23AR69

Insulation Approx. R Value @ 1000F	Insulation Length	Insulation Width	Wall Thickness - Insulation	Item No.
Ceramic Fiber Insulation				
0.75	4 ft. 2"	24"	2"	54TP56
		48"	2"	54TP58
	5 ft.	24"	½"	54TP60
		24"	1"	54TP52
		24"	1"	54TP62
		48"	½"	54TP61
		48"	1"	54TP54
	12½ ft.	24"	2"	23AR52
		48"	2"	23AR53
	25 ft.	24"	1"	23AR50
		48"	1"	23AR51
	50 ft.	24"	½"	23AR49
		48"	½"	54TP63
1.06	4 ft. 2"	24"	2"	54TP57
		48"	2"	54TP59
	5 ft.	24"	1"	54TP53
		48"	1"	54TP55
	25 ft.	24"	1"	23AR48



379 Series No. 4NNZ6



879 Series No. 4NPC8



ASJ 79 Series No. 4NNX4



079 Series No. 4NNV4

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	379 Series Item No.	879 Series Item No.	ASJ 79 Series Item No.	079 Series Item No.
Preformed Pipe Insulation, 1" Thickness						
⅝"	⅝"	—	4NPA7	4TGJ3	4NNY5	4NNW3
⅞"	—	½"	4NNZ6	—	—	—
⅞"	⅞"	½"	4NPA8	4NPC8	4NNX4	4NNV2
⅞"	⅞"	½"	—	4TGJ4	4NNY6	4NNW4
1⅛"	1⅛"	¾"	4NNZ7	4TGH3	4NNX5	4NNV3
1⅛"	1⅛"	—	4NPA9	4TGJ5	4NNY7	4NNW5
1⅜"	1⅜"	1"	4NNZ8	4TGH4	4NNX6	4NNV4
1⅜"	1⅜"	1"	4NPC1	4TGJ6	4NNY8	4NNW6
1⅝"	1⅝"	1¼"	4NNZ9	4TGH5	4NNX7	4NNV5
1⅝"	1⅝"	1¼"	4NPC2	4TGJ7	4NNY9	4NNW7
1⅞"	—	1½"	4NPA1	4TGH6	4NNX8	4NNV6
2⅛"	2⅛"	—	4NPC3	4TGJ8	4NNZ1	4NNW8
2⅜"	—	2"	4NPA2	4TGH7	4NNX9	4NNV7
2⅝"	2⅝"	—	4NPC4	4TGJ9	4NNZ2	4NNW9
3	—	2½"	4NPA3	4TGH8	4NNY1	4NNV8
3⅛"	3⅛"	—	4NPC5	4TGK1	4NNZ3	4NNX1
3⅜"	3⅜"	3"	4NPA4	4TGH9	4NNY2	4NNV9
3⅝"	3⅝"	—	4NPC6	4TGK2	4NNZ4	4NNX2
4⅛"	4⅛"	3½"	4NPA5	4TGJ1	4NNY3	4NNW1
4⅛"	4⅛"	—	4NPC7	4TGK3	4NNZ5	4NNX3
4⅝"	—	4"	4NPA6	4TGJ2	4NNY4	4NNW2

Insulation Sheet Size	Wall Thickness - Insulation	079 Series Item No.
Insulation Sheets		
24" x 48"	½"	4NNP3
	1"	4NNP4
	1½"	4NNP5
	2"	4NNP6
	3"	4NNP7
24" x 96"	½"	4NNP8
	1"	4NNP9
	1½"	4NNR1
	2"	4NNR2
	3"	4NNR3
48" x 96"	½"	4NNR4
	1"	4NNR5
	1½"	4NNR6
	2"	4NNR7
	3"	4NNR8

Melamine Preformed Pipe Insulation and Sheets

TECHLITE™

- Temp. range: -40° to 350°F
- Pipe insulation is 4-ft. long

Fiber-free insulation system is produced from ozone-friendly TechLite® melamine foam. Include ship-lap joints and/or relief cuts to accommodate curved surfaces. Preformed sections fit pipes and tubes. Flat sheets can be used for ductwork and large vessels. Insulation meets ASTM C1410 Cellular Melamine, ASTM E84 25/50 Rating.

379 Series—Covered with a high-strength, 30-mil, polyester-reinforced PVC outer jacketing. Covering is UV-resistant and approved for outdoor use; absorbs impacts and returns to its original shape. White color.

879 Series—High-gloss semirigid 20-mil PVC outer jacketing has excellent antibacterial and low-mold properties. Approved for severe washdown requirements of sanitary processes. Ideal for food and beverage, clean room, and biopharm applications. White color.

ASJ 79 Series—Covered with a fiber-reinforced, paper-and-foil lamination; an excellent choice for interior applications. True foil barrier has very low vapor permeability. Outer cover is paintable or can be covered with a secondary jacket if used in outdoor applications. White color.

079 Series—Plain, light gray foam can be easily fabricated over nonstandard pipes or ducts; form and fit with simple hand tools. Can be layered or mitered to fit nonstandard curves or objects. Mechanically fasten or glue in place.



No. 32XV43

Self-Fusing Silicone Tape

ER Emergency Repair TAPE

- Operating temp.: -130° to 500°F

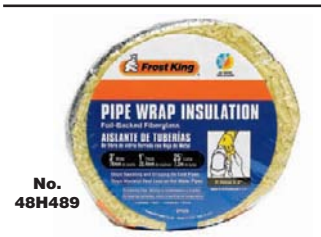
Protective overwrap is adhesive-free. For use in insulating electrical connections, protecting pipe threads, friction wrap for handle grips, tension wrap for bundles of wires and hoses, temporary hose repairs, and corrosion protection. Cures in 24 hr. and creates a permanent seal. Nos. 32XV29 to 32XV34 have a triangular shape that helps assure a smooth and uniform wrap over difficult shapes such as bus bars, cable harnesses, coils, and splices. No. 32XV43 includes 1 roll of black tape and 1 roll of red tape. All items meet Mil. Spec. CID A-A-59163 and are UL 510 Recognized.

Thickness	L	W	Color	Item No.
Rectangle Self-Fusing Tape				
0.020"	432"	2"	Black	32XV35
		2"	Gray	32XV37
		2"	White	32XV36
Self-Fusing Tape				
0.020"	144"	1"	Black	32XV38
		1"	Black/Red	32XV43
		1"	Clear	32XV40
		1"	Gray	32XV42
		1"	Red	32XV39
		1"	White	32XV41
20 mil	432"	1"	Black	3DXU8
		1"	Blue	6PFH4
		1"	Clear	6PFH3
		1"	Gray	6PFH5
		1"	Green	6PFH2
		1"	Red Oxide	6PFH0
		1"	White	6PFH1
		1"	Yellow	3DXU9



No. 3DXU8

Thickness	L	W	Color	Item No.
Triangle Self-Fusing Tape				
0.020"	432"	1"	Black/Blue	32XV30
		2"	Black/Blue	32XV33
		1"	Gray/Blue	32XV32
		1"	Red Oxide/ Blue	32XV31
		2"	White/Blue	32XV34
0.040"		1"	Black/Green	32XV29



No. 48H489

Frost King

Pipe Insulation Wraps

- Temp. range: 0° to 250°F

Help cut heat loss on hot water pipes and help keep cold water pipes from sweating. Meet UL 723.

Description	W	L	Approx. R Value	Item No.
Fiberglass w/Plastic Vapor Barrier Overwrap	3"	25 ft.	1.6	48H488
Fiberglass and Foil	3"	25 ft.	3.3	48H489
Foam and Foil, Self-Adhesive	2"	15 ft.	2	48H494
Cotton and Foil, No-Itch	3"	25 ft.	4	48H492

GA GRAINGER APPROVED

Rubber Flange Gaskets—Full-Face

- ⅛" thick
- ANSI sized to fit 150-lb. flanges

NEOPRENE BLEND (BLACK)
- Temp. range: -20° to 190°F

Have moderate resistance to ozone, oxidation, water, hydraulic silicate, and oil.

SBR BLEND (RED)
- Temp. range: -20° to 180°F

Good heat resistance for low-pressure hot and cold water applications.

FDA NITRILE (OFF WHITE)
- Temp. range: -25° to 180°F

Made with FDA-approved ingredients.

FKM FLUOROELASTOMER (BLACK)
- Temp. range: -10° to 400°F

Excellent resistance to oils, fuels, chlorinated solvents, hydrocarbons, and strong acids.

SILICONE (RED)
- Temp. range: -80° to 400°F

Excellent performance in extreme temperatures.



No. 1TUR8



No. 1TUT5

Pipe Size	Inside Dia.	Outside Dia.	Bolt Holes	Neoprene Blend Max. Pressure (psi)	Neoprene Blend Item No.	SBR Blend Max. Pressure (psi)	SBR Blend Item No.	FDA Nitrile Max. Pressure (psi)	FDA Nitrile Item No.	FKM Fluoroelastomer Max. Pressure (psi)	FKM Fluoroelastomer Item No.	Silicone Max. Pressure (psi)	Silicone Item No.
½"	27/32"	3½"	4	—	—	—	—	250	4CYT9	250	4CYV2	250	4CYW4
¾"	1 1/16"	3⅞"	4	150	1TUR8	150	1TUT8	250	4CYU1	250	4CYV3	250	4CYW5
1"	1 5/16"	4¼"	4	150	1TUR9	150	1TUT9	250	4CYU2	250	4CYV4	250	4CYW6
1½"	1 29/32"	5"	4	150	1TUT1	150	1TUV1	250	4CYU3	250	4CYV5	250	4CYW7
2"	2⅜"	6"	4	150	1TUT2	150	1TUV2	—	—	—	—	—	—
2"	2 13/32"	6"	4	—	—	—	—	250	4CYU4	250	4CYV6	250	4CYW8
2½"	2⅞"	7"	4	150	1TUT3	150	1TUV3	250	4CYU5	250	4CYV7	250	4CYW9
3"	3½"	7½"	4	150	1TUT4	150	1TUV4	250	4CYU6	250	4CYV8	250	4CYX1
4"	4½"	9"	8	150	1TUT5	150	1TUV5	250	4CYU7	250	4CYV9	250	4CYX2
5"	5 9/16"	10"	8	—	—	—	—	250	4CYU8	250	4CYW1	250	4CYX3
6"	6⅝"	11"	8	150	1TUT6	150	1TUV6	250	4CYU9	250	4CYW2	250	4CYX4
8"	8⅝"	13½	8	150	1TUT7	150	1TUV7	250	4CYV1	250	4CYW3	250	4CYX5

GA GRAINGER APPROVED

Full Face and Ring Gasket Kits with Bolts

- ANSI sized to fit 150-lb. flat face flanges

Grade A zinc-plated carbon steel bolts.

SBR BLEND (STYRENE BUTADIENE RUBBER)
- Max. temp: -20° to 170°F
- 210°F tensile strength = 500 psi

ARAMID FIBER WITH NITRILE RUBBER
- Max. temp: 750°F (continuous max. temp.: 460°F)
- Max. pressure: 1595 psi (continuous max. pressure: 725 psi)

Pipe Size	Inside Dia.	Outside Dia.	Bolt Holes	Item No.
SBR Blend (Styrene Butadiene Rubber)				
2"	2⅜"	6"	4	5WLY9
2½"	2⅞"	7"	4	5WLZ0
3"	3½"	7½"	4	5WLZ1
4"	4½"	9"	8	5WLZ2
6"	6⅝"	11"	8	5WLZ3
8"	8⅝"	13½"	8	5WLZ4
10"	10¾"	16"	12	5WLZ5
12"	12¾"	19"	12	5WLZ6
Aramid Fiber with Nitrile Binder				
2"	2 5/16"	4⅛"	—	5WLZ7
2½"	2 9/16"	4⅞"	—	5WLZ8
3"	3⅜"	5⅜"	—	5WLZ9
4"	4⅜"	6⅞"	—	5WMA0
5"	5 3/16"	7¾"	—	5WMA1
6"	6½"	8¾"	—	5WMA2
8"	8½"	11"	—	5WMA3



No. 5WLY9



No. 5WLZ4

GA GRAINGER APPROVED

Thermoseal An Independent Klinger Company

TEADIT Sealing for a Safer and Greener Tomorrow

Garlock SEALING TECHNOLOGIES

PTFE and Fiber Ring Gaskets and Sheets

- Ring gaskets are ANSI sized to fit 150-lb. flat-face and raised-face flanges

RING FLANGE GASKETS

A. Virgin PTFE
- Max. pressure: 150 psi
- Temp. range: -450° to 500°F

High-purity gaskets provide a low-stress seal with high chemical compatibility.

B. Inorganic Fiber Garlock IFG 5500
- Max. pressure: 1200 psi
- Temp. range: -100° to 800°F, 550°F continuous

Thermally stable gaskets resist aliphatic hydrocarbons, gasoline, saturated steam, inert gases, and most refrigerants.

C. Microcellular PTFE Garlock 3545
- Max. pressure: 1200 psi
- Temp. range: -450° to 500°F

Resist strong acids, caustics, and hydrocarbons.

D. Flexible Graphite with 316SS Insert
- Max. pressure: 2000 psi
- Temp. range: -400° to 850°F

Seal effectively during thermal cycling, resist corrosive chemicals, and are for use in critical sealing applications.

E. PTFE with 304SS Insert
- Max. pressure: 800 psi
- Temp. range: -250° to 450°F

Void-free, virgin PTFE.



C. Garlock Microcellular
No. 1TUV8



No. 38R341
Gasket Sheet

Pipe Size	Inside Dia.	Outside Dia.	A. GA Virgin PTFE, White Thickness 1/16" Item No.	A. GA Virgin PTFE, White Thickness 1/8" Item No.	B. Garlock Inorganic Fiber Garlock IFG 5500, Gray Thickness 1/16" Item No.	B. Garlock Inorganic Fiber Garlock IFG 5500, Gray Thickness 1/8" Item No.	C. Garlock Microcellular PTFE, White Thickness 1/16" Item No.	C. Garlock Microcellular PTFE, White Thickness 1/8" Item No.
Ring Flange Gaskets								
½"	27/32"	1⅞"	1TVD6	1TVC5	—	38VP96	—	—
¾"	1 1/16"	2¼"	1TVD7	1TVC6	1TUX8	38VP97	1TUV8	1TUW8
1"	1 5/16"	2⅝"	1TVD8	1TVC7	1TUX9	38VP98	1TUV9	1TUW9
1¼"	1 21/32"	3"	1TVD9	1TVC8	—	—	—	—
1½"	1 29/32"	3⅜"	1TVE1	1TVC9	1TUY1	38VP99	1TUW1	1TUX1
2"	2⅜"	4⅛"	1TVE2	1TVD1	1TUY2	38VR01	1TUW2	1TUX2
2½"	2⅞"	4⅞"	—	—	1TUY3	38VR02	1TUW3	1TUX3
3"	3½"	5⅜"	1TVE3	1TVD2	1TUY4	38VR03	1TUW4	1TUX4
4"	4½"	6⅞"	1TVE4	1TVD3	1TUY5	38VR04	1TUW5	1TUX5
6"	6⅝"	8¾"	1TVE5	1TVD4	1TUY6	38VR05	1TUW6	1TUX6
8"	8⅝"	11"	1TVE6	1TVD5	1TUY7	38VR06	1TUW7	1TUX7

Pipe Size	Inside Dia.	Outside Dia.	D. Flexible Graphite with 316SS Insert, Black, Thickness 1/16" Item No.	GA D. Flexible Graphite with 316SS Insert, Black, Thickness 1/8" Item No.	E. PTFE with 304SS Insert, White, Thickness 3/32" Item No.
Ring Flange Gaskets					
½"	27/32"	1⅞"	4CYL1	38VR07	4CYJ8
¾"	1 1/16"	2¼"	4CYL2	38VR08	4CYJ9
1"	1 5/16"	2⅝"	4CYL3	38VR09	4CYK1
1½"	1 29/32"	3⅜"	4CYL4	38VR10	4CYK2
2"	2⅜"	4⅛"	4CYL5	38VR11	4CYK3
2½"	2⅞"	4⅞"	4CYL6	38VR12	4CYK4
3"	3½"	5⅜"	4CYL7	38VR13	4CYK5
4"	4½"	6⅞"	4CYL8	38VR14	4CYK6
5"	5 9/16"	7¾"	4CYL9	—	4CYK7
6"	6⅝"	8¾"	4CYN1	38VR15	4CYK8
8"	8⅝"	11"	4CYN2	38VR16	4CYK9

CONTINUED

CONTINUED

PTFE and Fiber Ring Gaskets and Sheets

GRAINGER APPROVED · Thermoseal An Independent Klinger Company · TEADIT Sealing for a Safer and Greener Tomorrow · Garlock SEALING TECHNOLOGIES

F. Expanded PTFE Gore™ Style GR and UPG Style 800
- Max. pressure: 3000 psi
- Temp. range: -450° to 600°F

Dimensionally stable and resist creep and cold flow. Provide low stress-to-seal for applications using plastic and glass-lined flanges. Resist many aggressive chemicals. Nos. 4CYR7 to 4CYR9, 4CYT1 to 4CYT8 are cut from sheet material. Nos. 38R343 to 38R353 are molded gaskets.

G. Aramid Fiber with Nitrile Binder Garlock 3000
- Max. pressure: 1000 psi
- Temp. range: -100° to 700°F, 400°F continuous

Help reduce fluid loss, maintenance, energy consumption, and inventory costs.

H. PTFE with Aluminosilicate Microspheres Garlock Gylon® 3504
- Max. pressure: 800 psi
- Temp. range: -450° to 500°F

Suitable for use with some caustics and moderate concentrations of hydrocarbons, hydrogen peroxide, refrigerants, and solvents.

I. Synthetic Fibers with Nitrile Binder (Thermoseal Klingersil® C-4401)
General-purpose gasket material features good sealability, chemical resistance, and good creep relaxation.

J. Graphite with Nitrile Binder Garlock 9900
- Max. pressure: 2000 psi
- Temp. range: -100° to 1000°F

This high-temperature gasketing minimizes cold flow and has reduced creep relaxation.

K. Expanded PTFE
- Max. pressure: 2900 psi
- Temp. range: -400° to 599°F

Compresses easily to minimize creep and cold flow.

L. PTFE with 304 SS Reinforcement Core
- Max. pressure: 150 psi, except No. 16T714 is 125 psi
- Temp. range: -400° to 500°F

Used for pipeline blocking, this pipeline gasket has a handle to ease installation.

M. SYNTHETIC FIBERS WITH A PROPRIETARY RUBBER BINDER GARLOCK 3760
- Max. pressure: 500 psi
- Temp. range: -100° to 400°F

Create their own low-pressure load with proprietary rubber binder. Material won't degrade when in contact with oils and is conformable to irregular flanges.

GASKET SHEETS

Expanded PTFE, Nos. 38VP92 to 38VP95
Softer and more flexible than conventional PTFE so it can easily conform to rough and irregular surfaces. Minimal creep at elevated temperatures.

PTFE with Glass Microspheres Garlock 3504, Nos. 16T703 to 16T706
Improved performance over PTFE. Suitable for use with some caustics, moderate concentrations of acids, hydrocarbons, refrigerants, and solvents.

Pipe Size	Inside Dia.	Outside Dia.	F. Gore Cut Expanded PTFE, White Thickness 1/8" Item No.	F. Gore Molded Expanded PTFE, White Thickness 1/8" Item No.	G. Garlock Aramid Fiber with Nitrile Binder, Blue Thickness 1/8" Item No.	G. Garlock Aramid Fiber with Nitrile Binder, Blue Thickness 1/16" Item No.
Ring Flange Gaskets						
½"	27/32"	1⅞"	4CYR7	38R343	4CYP5	4CYN3
¾"	1 1/16"	2¼"	4CYR8	38R344	4CYP6	4CYN4
1"	1 5/16"	2⅝"	4CYR9	38R345	4CYP7	4CYN5
1½"	1 29/32"	3⅜"	4CYT1	38R346	4CYP8	4CYN6
2"	2⅜"	4⅛"	4CYT2	38R347	4CYP9	4CYN7
2½"	2⅞"	4⅞"	4CYT3	—	4CYR1	4CYN8
3"	3½"	5⅜"	4CYT4	38R348	4CYR2	4CYN9
4"	4½"	6⅞"	4CYT5	38R349	4CYR3	4CYP1
5"	5 9/16"	7¾"	4CYT6	—	4CYR4	4CYP2
6"	6⅝"	8¾"	4CYT7	38R350	4CYR5	4CYP3
8"	8⅝"	11"	4CYT8	38R351	4CYR6	4CYP4
10"	10¾"	13⅜"	—	38R352	—	—
12"	12¾"	16⅛"	—	38R353	—	—

Pipe Size	Inside Dia.	Outside Dia.	H. Gylon PTFE with Aluminosilicate Microspheres, Blue Thickness 1/16" Item No.	H. Gylon PTFE with Aluminosilicate Microspheres, Blue Thickness 1/8" Item No.	I. Thermoseal Synthetic Fibers with Nitrile Binder, Green Thickness 1/16" Item No.	I. Thermoseal Synthetic Fibers with Nitrile Binder, Green Thickness 1/8" Item No.	J. Garlock Graphite with Nitrile Binder, Mahogany Thickness 1/16" Item No.	J. Garlock Graphite with Nitrile Binder, Mahogany Thickness 1/8" Item No.	K. Teadit Expanded PTFE, White Thickness 1/8" Item No.
Flange Gaskets									
½"	27/32"	1⅞"	38VR17	38VR27	38VR41	38VR51	38VP34	38VP44	38VP82
¾"	1 1/16"	2¼"	38VR18	38VR28	38VR42	38VR52	38VP35	38VP45	38VP83
1"	1 5/16"	2⅝"	38VR19	38VR29	38VR43	38VR53	38VP36	38VP46	38VP84
1½"	1 29/32"	3⅜"	38VR20	38VR30	38VR44	38VR54	38VP37	38VP47	38VP85
2"	2⅜"	4⅛"	38VR21	38VR31	38VR45	38VR55	38VP38	38VP48	38VP86
2½"	2⅞"	4⅞"	38VR22	38VR32	38VR46	38VR56	38VP39	38VP49	38VP87
3"	3½"	5⅜"	38VR23	38VR33	38VR47	38VR57	38VP40	38VP50	38VP88
4"	4½"	6⅞"	38VR24	38VR34	38VR48	38VR58	38VP41	38VP51	38VP89
6"	6⅝"	8¾"	38VR25	38VR35	38VR49	38VR59	38VP42	38VP52	38VP90
8"	8⅝"	11"	38VR26	38VR36	38VR50	38VR60	38VP43	38VP53	38VP91

Pipe Size	Outside Dia.	L. GA PTFE With 304SS Reinforcement Core, White Thickness 1/8" Item No.
Paddle Gaskets/Pipeline Blockers		
1"	2⅝"	16T709
1½"	3⅜"	16T710
2"	4⅛"	16T711
3"	5⅜"	16T712
4"	6⅞"	16T713
6"	8¾"	16T714

Pipe Size	Inside Dia.	Outside Dia.	M. Garlock Synthetic Fibers with a Proprietary Rubber Binder, Blue and Off-White Thickness 1/16" Item No.	M. Garlock Synthetic Fibers with a Proprietary Rubber Binder, Blue and Off-White Thickness 1/8" Item No.
Ring Gaskets				
½"	½"	1⅞"	40PP41	40PP39
¾"	¾"	2¼"	1TUY8	40PP40
1"	1"	2⅝"	1TUY9	40PP37
1½"	1½"	3⅜"	1TUZ1	40PP44
2"	2"	4⅛"	1TUZ2	40PP46
2½"	2½"	4⅞"	1TUZ3	40PP43
3"	3"	5⅜"	1TUZ4	40PP42
4"	4"	6⅞"	1TUZ5	40PP45
6"	6"	8¾"	1TUZ6	40PP36
8"	8"	11"	1TUZ7	40PP38

L	W	Material of Construction	Color	Max. Pressure (psi)	Temp. Range (F)	Mfr. Model	Brand	Thickness 1/32" Item No.	Thickness 1/16" Item No.	Thickness 1/8" Item No.
Gasket Sheets										
12"	12"	Virgin PTFE	White	800	-330 to 500	8764V12062	GA	—	16T698	—
				800	-330 to 500	8764V12125	GA	—	—	16T701
		Aramid Fibers with a Nitrile Binder	Blue	1000	-100 to 400	3000	Garlock	—	5MRT3	5MRT4
		Expanded PTFE	White	2900	-400 to 599	24SH-15062	Teadit	—	38VP94	—
				2900	-450 to 500	24SH-15125	Teadit	—	—	38VP95
		Graphite with Nitrile Binder	Mahogany	2000	-100 to 1000	9900-15062	Garlock	—	38VP56	—
				2000	-100 to 1000	9900-15125	Garlock	—	—	38VP57
15"	15"	Inorganic Fibers with a Nitrile Binder	Gray	1200	-100 to 550	5500	Garlock	—	5MRT7	5MRT8
		Microcellular PTFE	White	1200	-450 to 500	3545	Garlock	—	5MRU1	5MRU2
		PTFE with Glass Microspheres	Blue	800	-450 to 500	3504-15062	Garlock	—	16T703	—
				800	-450 to 500	3504-15125	Garlock	—	—	16T705
		Synthetic Fibers with a Proprietary Rubber Binder	Blue and Off-White	500	-100 to 400	3760U-15062	Garlock	—	38VP80 ††	—
				500	-100 to 400	3760U-15125	Garlock	—	—	38VP81 ††
19¾"	19¾"	Flexible Graphite with 316 SS Insert	Black	2000	-400 to 850	FLEXIGRAF-19062	GA	—	6PFJ2	—
				2000	-400 to 850	FLEXIGRAF-19125	GA	—	—	6PFJ4
24"	24"	Virgin PTFE	White	800	-330 to 500	8764V24062	GA	—	16T699	—
				800	-330 to 500	8764V24125	GA	—	—	16T702
		Aramid Fibers with a Nitrile Binder	Blue	1000	-100 to 400	3000	Garlock	—	5MRT5	5MRT6
		Expanded PTFE	White	2900	-450 to 500	24SH-30062	Teadit	—	38VP92	—
				2900	-400 to 599	24SH-30125	Teadit	—	—	38VP93
		Graphite with Nitrile Binder	Mahogany	2000	-100 to 1000	9900-30062	Garlock	—	38VP54	—
				2000	-100 to 1000	9900-30125	Garlock	—	—	38VP55
30"	30"	Inorganic Fibers with a Nitrile Binder	Gray	1200	-100 to 550	5500	Garlock	—	5MRT9	5MRU0
		Microcellular PTFE	White	1200	-450 to 500	3545	Garlock	—	5MRU3	5MRU4
		PTFE with Glass Microspheres	Blue	800	-450 to 500	3504-30062	Garlock	—	16T704	—
				800	-450 to 500	3504-30125	Garlock	—	—	16T706
		Synthetic Fibers with a Proprietary Rubber Binder	Blue and Off-White	500	-100 to 400	3760U-30062	Garlock	—	38VP78 ††	—
				500	-100 to 400	3760U-30125	Garlock	—	—	38VP79 ††
30"	30"	Synthetic Fibers with Nitrile Binder	Green	600	0 to 400	C-4401	Thermoseal	38R340	—	38R342
30"	30"			600	0 to 400	C-4401	Thermoseal	—	38R341	—
39½"	39½"	Flexible Graphite with 316 SS Insert	Black	2000	-400 to 850	FLEXIGRAF-M062	GA	—	6PFJ3	—
				2000	-400 to 850	FLEXIGRAF-M125	GA	—	—	6PFJ5

†† NSF 61 Certified.

Flange Gaskets and Spiral Wound Metal Gaskets

Thermoseal An Independent Klinger Company

FLANGE GASKETS (KLINGERSIL® C-4401)

- Max. pressure: 150 psi
- Temp. range: 0° to 750°F

Feature greater sealability, chemical resistance, and good creep relaxation.

SPIRAL WOUND METAL GASKETS

- Max. pressure: 150 psi
- Temp. range: 0° to 932°F

Suitable for use on raised face and flat face flanges. Type CR gaskets feature a solid metal outer ring that functions as a centering device and a compression stop. Type CRIR gaskets feature solid metal outer and inner rings that help protect the inner windings of the gasket element from high temperatures.



No. 45CE04 No. 45CE05

Pipe Size	Inside Dia.	Outside Dia.	Type	Item No.
Flange Gasket, 1/16" Thick				
Synthetic Fiber with Nitrile Binder				
1/2"	21/32"	1 7/8"	C-4401 ANSI Class 150	45CE38
3/4"	1 1/16"	2 1/4"		45CD97
1"	1 5/16"	2 5/8"		45CD95
1 1/2"	1-26/32"	3 3/8"		45CE49
2"	2 3/8"	4 1/8"		45CD73
3"	3 1/2"	5 3/8"		45CE11
4"	4 1/2"	6 7/8"		45CE21
6"	6 5/8"	8 3/4"		45CD83
8"	8 5/8"	11"		45CE20
10"	10 3/4"	13 3/8"		45CE04
12"	12 3/4"	16 1/8"		45CE44
14"	14"	17 3/4"		45CD82
16"	16"	20 1/4"		45CE12
18"	18"	21 5/8"		45CE39
20"	20"	23 7/8"		45CD79
24"	24"	28 1/4"		45CE52

Pipe Size	Inside Dia.	Outside Dia.	Type	Item No.
Spiral Wound Metal Gasket, 3/16" Thick				
304SS and Flexible Graphite				
1/2"	3/4"	1 7/8"	CR ANSI Class 150	45CE37
1/2"	3/4"	1 7/8"	CRIR ANSI Class 150	45CD81
3/4"	1"	2 1/4"	CR ANSI Class 150	45CE47
3/4"	1"	2 1/4"	CRIR ANSI Class 150	45CE23
1"	1 1/4"	2 5/8"	CR ANSI Class 150	45CD98
1"	1 1/4"	2 5/8"	CRIR ANSI Class 150	45CE09
1 1/2"	2 1/8"	3 3/8"	CR ANSI Class 150	45CE43
1 1/2"	2 1/8"	3 3/8"	CRIR ANSI Class 150	45CD74
2"	2 3/4"	4 1/8"	CR ANSI Class 150	45CD69
2"	2 3/4"	4 1/8"	CRIR ANSI Class 150	45CE07
2 1/2"	3 1/4"	4 7/8"	CR ANSI Class 150	45CD87
2 1/2"	3 1/4"	4 7/8"	CRIR ANSI Class 150	45CE22
3"	4"	5 3/8"	CR ANSI Class 150	45CE05
3"	4"	5 3/8"	CRIR ANSI Class 150	45CE48
4"	5"	6 1/8"	CR ANSI Class 150	45CE33
4"	5"	6 1/8"	CRIR ANSI Class 150	45CD89
6"	7 3/16"	8 3/4"	CR ANSI Class 150	45CE50

Pipe Size	Inside Dia.	Outside Dia.	Type	Item No.
Spiral Wound Metal Gasket, 3/16" Thick (Cont.)				
304SS and Flexible Graphite (Cont.)				
6"	7 3/16"	8 3/4"	CRIR ANSI Class 150	45CE06
8"	9 3/16"	11"	CR ANSI Class 150	45CD92
8"	9 3/16"	11"	CRIR ANSI Class 150	45CD99
10"	11 5/16"	13 3/8"	CR ANSI Class 150	45CE42
10"	11 5/16"	13 3/8"	CRIR ANSI Class 150	45CD76
12"	13 3/8"	16 1/8"	CR ANSI Class 150	45CD78
12"	13 3/8"	16 1/8"	CRIR ANSI Class 150	45CD94
14"	14 5/8"	17 3/4"	CR ANSI Class 150	45CE46
14"	14 5/8"	17 3/4"	CRIR ANSI Class 150	45CD90
16"	16 5/8"	20 1/4"	CR ANSI Class 150	45CD85
16"	16 5/8"	20 1/4"	CRIR ANSI Class 150	45CE19
18"	18 11/16"	21 5/8"		45CD80
18"	18-11-16"	21 5/8"	CR ANSI Class 150	45CE32
20"	20 11/16"	23 7/8"		45CE34
20"	20 11/16"	23 7/8"	CRIR ANSI Class 150	45CE15
24"	24 3/4"	28 1/4"	CR ANSI Class 150	45CE13
24"	24 3/4"	28 1/4"	CRIR ANSI Class 150	45CE24

Garlock SEALING TECHNOLOGIES

GA GRAINGER APPROVED

The Flexitallic Group

Metal-Reinforced Spiral-Wound Ring Gaskets

Meet ANSI B16.20.

GARLOCK RW

- Temp. range: -320° to 842°F

With 304 stainless steel windings, flexible graphite filler, and a carbon steel centering ring. For hydrocarbon processing and refining, pulp and paper, and oil and gas applications.

GARLOCK RWI

- Temp. range: -320° to 500°F

304 stainless steel inner ring protects sealing elements from process media. 304 stainless steel winding, PTFE filler, and carbon steel centering rings.

GA SPIRAL-WOUND

- Temp. range: -320° to 842°F

304 stainless steel windings, with flexible graphite filler and carbon steel centering rings.

FLEXITALLIC CGI

- Temp. range: -150° to 842°F

304 or 316 stainless steel windings with flexible graphite filler. Include inner ring. Suitable for use with flat face and raised face flanges and specified for high pressure/temperature service or where toxic or corrosive carbon steel centering materials are present.



No. 1TUZ8



No. 38R293

Pipe Size	Inside Dia.	GARLOCK RW: ANSI Sized to Fit 150-lb. Flat/Raised Face Gasket Outside Dia.	Item No.	GARLOCK RW: ANSI Sized to Fit 300-lb. Flat/Raised Face Gasket Outside Dia.	Item No.	GARLOCK RW: ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Gasket Outside Dia.	Item No.	GA SPIRAL-WOUND: ANSI Sized to Fit 150-lb. Flat/Raised Face Flange Gasket Outside Dia.	Item No.	GA SPIRAL-WOUND: ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Flange Gasket Outside Dia.	Item No.
1/2"	3/4"	1 7/8"	1TUZ8	—	—	2 1/8"	1TVB2	1 7/8"	38UU38	2 1/8"	38UU49
3/4"	1"	2 1/4"	1TUZ9	—	—	2 5/8"	1TVB3	2 1/4"	38UU39	2 5/8"	38UU50
1"	1 1/4"	2 5/8"	1TVA1	—	—	2 7/8"	1TVB4	2 5/8"	38UU40	2 7/8"	38UU51
1 1/4"	1 7/8"	3"	1TVA2	—	—	3 1/4"	1TVB5	—	—	—	—
1 1/2"	2 1/8"	3 3/8"	1TVA3	—	—	3 3/4"	1TVB6	3 3/8"	38UU41	3 3/4"	38UU52
2"	2 3/4"	4 1/8"	1TVA4	—	—	4 3/8"	1TVB7	4 1/8"	38UU42	4 3/8"	38UU53
2 1/2"	3 1/4"	4 7/8"	1TVA5	—	—	5 1/8"	1TVB8	4 7/8"	38UU43	5 1/8"	38UU54
3"	4"	5 3/8"	1TVA6	—	—	5 7/8"	1TVB9	5 3/8"	38UU44	5 7/8"	38UU55
4"	5"	6 1/8"	1TVA7	7 1/8"	1TVC1	—	—	6 1/8"	38UU45	7 1/8"	38UU56
5"	6 1/8"	7 3/4"	1TVA8	8 1/2"	1TVC2	—	—	7 3/4"	38UU46	8 1/2"	38UU57
6"	7 3/16"	8 3/4"	1TVA9	9 1/8"	1TVC3	—	—	8 3/4"	38UU47	9 1/8"	38UU58
8"	9 3/16"	11"	1TVB1	12 1/8"	1TVC4	—	—	11"	38UU48	12 1/8"	38UU59

FLEXITALLIC CG

- Temp. range: -150° to 842°F

316 stainless steel windings with flexible graphite filler. Feature an external ring that centers the carbon steel centering gasket on the flange face. Provides additional radial strength to help prevent gasket blowout and acts as a compression stop. General purpose gasket suitable for use with raised face and flat face flanges.

Pipe Size	Inside Dia.	GARLOCK RWI: ANSI Sized to Fit 150-lb. Flat/Raised Face Flange Gasket Outside Dia.	Item No.	GARLOCK RWI: ANSI Sized to Fit 300-lb. Flat/Raised Face Flange Gasket Outside Dia.	Item No.	GARLOCK RWI: ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Flange Gasket Outside Dia.	Item No.
1/2"	9/16"	1 7/8"	4CYX6	—	—	2 1/8"	4CYY8
3/4"	13/16"	2 1/4"	4CYX7	—	—	2 5/8"	4CYY9
1"	1 1/16"	2 5/8"	4CYX8	—	—	2 7/8"	4CYZ1
1 1/2"	1 3/4"	3 3/8"	4CYX9	—	—	3 3/4"	4CYZ2
2"	2 3/16"	4 1/8"	4CYY1	—	—	4 3/8"	4CYZ3
2 1/2"	2 5/8"	4 7/8"	4CYY2	—	—	5 1/8"	4CYZ4
3"	3 3/16"	5 3/8"	4CYY3	—	—	5 7/8"	4CYZ5
4"	4 3/16"	6 7/8"	4CYY4	7 1/8"	4CYZ6	—	—
5"	5 3/16"	7 3/4"	4CYY5	8 1/2"	4CYZ7	—	—
6"	6 3/16"	8 3/4"	4CYY6	9 1/8"	4CYZ8	—	—
8"	8 1/2"	11"	4CYY7	12 1/8"	4CYZ9	—	—

Pipe Size	Inside Dia.	FLEXITALLIC CG: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	ANSI Sized to Fit 300/400/600-lb. Outside Dia.	Item No.
1/2"	3/4"	1 7/8"	38R316	2 1/8"	38R328
3/4"	1"	2 1/4"	38R317	2 5/8"	38R329
1"	1 1/4"	2 5/8"	38R318	2 7/8"	38R330
1 1/4"	1 7/8"	3"	38R319	3 1/4"	38R331
1 1/2"	2 1/8"	3 3/8"	38R320	3 3/4"	38R332
2"	2 3/4"	4 1/8"	38R321	4 3/8"	38R333
2 1/2"	3 1/4"	4 7/8"	38R322	5 1/8"	38R334
3"	4"	5 3/8"	38R323	5 7/8"	38R335

Pipe Size	Inside Dia.	FLEXITALLIC CGI: 304SS and Flexible Graphite: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	304SS and Flexible Graphite: ANSI Sized to Fit 300/400/600-lb. Outside Dia.	Item No.	316SS and Flexible Graphite: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	316SS and Flexible Graphite: ANSI Sized to Fit 300/400/600-lb. Outside Dia.	Item No.
1/2"	9/16"	1 7/8"	38R271	2 1/8"	38R282	1 7/8"	38R293	2 1/8"	38R305
3/4"	13/16"	2 1/4"	38R272	2 5/8"	38R283	2 1/4"	38R294	2 5/8"	38R306
1"	1 1/16"	2 5/8"	38R273	2 7/8"	38R284	2 5/8"	38R295	2 7/8"	38R307
1 1/4"	1 1/2"	3"	38R274	3 1/4"	38R285	3"	38R296	3 1/4"	38R308
1 1/2"	1 3/4"	3 3/8"	38R275	3 3/4"	38R286	3 3/8"	38R297	3 3/4"	38R309
2"	2 3/16"	4 1/8"	38R276	4 3/8"	38R287	4 1/8"	38R298	4 3/8"	38R310
2 1/2"	2 5/8"	4 7/8"	38R277	5 1/8"	38R288	4 7/8"	38R299	5 1/8"	38R311
3"	3 3/16"	5 3/8"	38R278	5 7/8"	38R289	5 3/8"	38R301	5 7/8"	38R312

Pipe Size	Inside Dia.	FLEXITALLIC CGI: 304SS and Flexible Graphite: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	304SS and Flexible Graphite: ANSI Sized to Fit 300-lb. Outside Dia.	Item No.	316SS and Flexible Graphite: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	316SS and Flexible Graphite: ANSI Sized to Fit 300-lb. Outside Dia.	Item No.
4"	4 3/16"	6 7/8"	38R279	7 1/8"	38R290	6 7/8"	38R302	7 1/8"	38R313
6"	6 3/16"	8 3/4"	38R280	9 1/8"	38R291	8 3/4"	38R303	9 1/8"	38R314
8"	8 1/2"	11"	38R281	12 1/8"	38R292	11"	38R304	12 1/8"	38R315

Pipe Size	Inside Dia.	FLEXITALLIC CG: ANSI Sized to Fit 150-lb. Outside Dia.	Item No.	ANSI Sized to Fit 300-lb. Outside Dia.	Item No.
4"	5"	6 7/8"	38R324	7 1/8"	38R336
5"	6 1/8"	7 3/4"	38R325	8 1/2"	38R337
6"	7 3/16"	8 3/4"	38R326	9 1/8"	38R338
8"	9 3/16"	11"	38R327	12 1/8"	38R339



No. 4UK01

POLY-TEMP® PTFE/ UHF Joint Sealant

Pliable instant flange gasket resists common chemicals and will not deteriorate. 100% expanded PTFE UHF material. Max. pressure: 3000 psi. Meet FDA 21 CFR 177.1550 and 21 CFR 175.105, and CSA Recognized Component.

W	L	Performance Temp. Range	Item No.
¼"	50 ft.	-450° to 600°F	4UK01
⅜"	300"	-450° to 600°F	5E141
½"	180"	-450° to 600°F	5E142
¾"	180"	-450° to 600°F	5E143



No. 5DMG5



No. 26X172



No. 26X173

WATTS REGULATOR

Lead-Free Dielectric Unions

- Max. pressure: 250 psi, except 3" and 4" pipe sizes are 175 psi
- Max. temp.: 180°F

Installed between pipes made from dissimilar metals to help prevent accelerated deterioration and corrosion. Include union nut, 2 tailpieces, and a gasket. Ideal for use in air and water conditioners, hot water storage tanks, processing tanks, and steam, gas, and water piping. Certified for use in potable water applications. Meet ANSI B16.39; Federal Specifications for Tensile Strength and Thread End Connections.

Pipe Size - Pipe Fitting	3001 FIP x Solder Brass, Malleable Iron Item No.	3002 FIP x Solder Brass, Steel Item No.	3002 FIP x Solder Copper, Iron Item No.	3003 FIP x FBP Brass, Steel Item No.	3003 FIP x FIP Brass, Malleable Iron Item No.	3003 FIP x FIP Brass, Steel Item No.	3004 FIP x FIP Galvanized Malleable Iron Item No.	3004 FIP x FIP Iron Item No.	3004 FIP x FIP Malleable Iron, Galvanized Steel Item No.
½"	5DMG0	—	—	—	—	26X169	—	—	5DMH3
½" x ⅜"	—	—	26X172	—	—	—	—	—	—
¾"	5DMG1	—	—	26X170	—	—	—	—	5DMH4
¾" x ½"	—	5DMG8	—	—	—	—	—	—	—
1"	5DMG2	—	—	—	—	26X171	—	—	5DMH5
1¼"	5DMG3	—	—	—	—	25CC90	—	26X174	—
1½"	5DMG4	—	—	—	26X173	—	25CC91	—	—
2"	5DMG5	—	—	—	26X163	—	—	—	—

Pipe Size - Pipe Fitting	3005 MIP x Solder Brass, Malleable Iron Item No.	3006 FIP x FIP Black Malleable Iron Item No.	3006 FIP x FIP Galvanized Malleable Iron Item No.	3006 FIP x FIP Malleable Iron Item No.	3008 FIP x Solder Lead Free Brass Item No.	3100 FIP x Solder Brass, Malleable Iron Item No.	3100 FIP x Solder Copper, Iron Item No.	3110 Solder Brass Item No.
½"	5DMG6	—	—	25CC82	26X162	—	—	—
¾"	5DMG7	—	—	25CC83	26X164	—	—	—
1"	—	—	—	25CC84	26X175	—	—	—
1¼"	—	—	—	25CC93	—	—	—	—
1½"	—	25CC85	—	—	—	—	—	—
2"	—	25CC86	25CC92	—	—	5DMH6	—	—
2½"	—	—	—	—	—	—	26X166	25CC87
3"	—	—	—	—	—	—	26X167	25CC88
4"	—	—	—	—	—	—	—	25CC89



No. 4FJN7

HOSE MASTER Inc.

Metal Hose Assemblies (Hex MNPT x Union FNPT Fittings)

- Max. working pressure at 70°F: 300 psi

Hydroformed 321 stainless steel hose with 304 stainless steel braid material. Enhanced bend radius and flexibility minimizes connection misalignment. Suitable for use wherever vibration may be a concern.

		MNPT x FNPT 321 Stainless Steel Hose w/304 Stainless Steel Braid							
		12"L		18"L		24"L		36"L	
Dia. (in.)	Static Min. Bend Radius (in.)	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.
¼	0.9	1800 psi	4FJN7	1800 psi	4FJN8	1800 psi	4FJN9	1800 psi	4FJP1
⅜	1.0	1558 psi	4FJP2	1558 psi	4FJP3	1558 psi	4FJP4	1558 psi	4FJP5
½	1.2	1186 psi	4FJP6	1186 psi	4FJP7	1186 psi	4FJP8	1186 psi	4FJP9
¾	1.7	898 psi	4FJR1	898 psi	4FJR2	898 psi	4FJR3	898 psi	4FJR4
1	2.1	718 psi	4FJR5	718 psi	4FJR6	718 psi	4FJR7	718 psi	4FJR8
1¼	2.5	645 psi	4FJR9	645 psi	4FJT1	645 psi	4FJT2	645 psi	4FJT3
1½	3.1	531 psi	4FJT4	531 psi	4FJT5	531 psi	4FJT6	531 psi	4FJT7
2	4.0	449 psi	4FJT8	449 psi	4FJT9	449 psi	4FJU1	449 psi	4FJU2



HOSE MASTER Inc.

Metal Hose Assemblies (Hex MNPT x Hex MNPT Fittings)

- Max. temp.: 1200°F

Feature 304 stainless steel braid material with hydroformed 321 stainless steel hose. Flexible with an enhanced bend radius to minimize connection misalignment. Ideal for use wherever vibration may be a concern.

		MNPT x MNPT 321 Stainless Steel Hose w/304 Stainless Steel Braid							
		12"L		18"L		24"L		36"L	
Dia. (in.)	Static Min. Bend Radius (in.)	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.	Max. Working Pressure @ 70°F	Item No.
¼	0.9	1800 psi	4FJU3	1800 psi	4FJU4	1800 psi	4FJU5	1800 psi	4FJU6
⅜	1.0	1558 psi	4FJU7	1558 psi	4FJU8	1558 psi	4FJU9	1558 psi	4FJV1
½	1.2	1186 psi	4FJV2	1186 psi	4FJV3	1186 psi	4FJV4	1186 psi	4FJV5
¾	1.7	898 psi	4FJV6	898 psi	4FJV7	898 psi	4FJV8	898 psi	4FJV9
1	2.1	718 psi	4FJW1	718 psi	4FJW2	718 psi	4FJW3	718 psi	4FJW4
1¼	2.5	645 psi	4FJW5	645 psi	4FJW6	645 psi	4FJW7	645 psi	4FJW8
1½	3.1	531 psi	4FJW9	531 psi	4FJX1	531 psi	4FJX2	531 psi	4FJX3
2	4.0	449 psi	4FJX4	449 psi	4FJX5	449 psi	4FJX6	449 psi	4FJX7



No. 1LNC5

			MNPT x F JIC 321 Stainless Steel Hose w/304 Stainless Steel Braid			
Dia. (in.)	Static Min. Bend Radius (in.)	Max. Working Pressure @ 70°F	12"L Item No.	18"L Item No.	24"L Item No.	36"L Item No.
¼	1.0	1800 psi	1LMZ9	1LNA1	4FJY1	1LNA3
¼	1.0	1800 psi	4FJX8	4FJX9	1LNA2	4FJY2
⅜	1.2	1558 psi	1LNA4	1LNA5	4FJY5	1LNA7
⅜	1.2	1558 psi	4FJY3	4FJY4	1LNA6	4FJY6
½	1.5	1186 psi	1LNA8	1LNA9	4FJY9	1LNB2
½	1.5	1186 psi	4FJY7	4FJY8	1LNB1	4FJZ1
¾	2.1	898 psi	1LNB3	1LNB4	4FJZ4	1LNB6
¾	2.1	898 psi	4FJZ2	4FJZ3	1LNB5	4FJZ5

			MNPT x F JIC 321 Stainless Steel Hose w/304 Stainless Steel Braid			
Dia. (in.)	Static Min. Bend Radius (in.)	Max. Working Pressure @ 70°F	12"L Item No.	18"L Item No.	24"L Item No.	36"L Item No.
1	2.7	718 psi	1LNB7	1LNB8	4FJZ8	1LNC1
1	2.7	718 psi	4FJZ6	4FJZ7	1LNB9	4FJZ9
1¼	3.1	645 psi	4FKA1	1LNC2	1LNC3	4FKA4
1¼	3.1	645 psi	—	4FKA2	4FKA3	1LNC4
1½	3.9	531 psi	4FKA5	1LNC5	1LNC6	4FKA8
1½	3.9	531 psi	—	4FKA6	4FKA7	1LNC7
2	5.1	449 psi	4FKA9	1LNC8	1LNC9	4FKC3
2	5.1	449 psi	—	4FKC1	4FKC2	1LND1

HOSE MASTER Inc.

Annuflex Flexible Metal Hose Assemblies with JIC Swivels

- Max. temp.: 1200°F
- Fabricated by ASME IX Certified welders

Hydroformed for long cycle life and can be bent to accommodate difficult configurations. Resist permeation, abrasion, and overbending. Excellent chemical compatibility. Ideal for full-vacuum applications and where there is a potential for catastrophic failure with rubber hose.

Hose I.D.	MNPT x FNPT Temp. Range	Max. Working Pressure @ 70°F	Dynamic Min. Bend Radius (in.)	Hose Length	Brand	Item No.	MNPT x MNPT Temp. Range	Max. Working Pressure @ 70°F	Dynamic Min. Bend Radius (in.)	Hose Length	Brand	Item No.
304 Stainless Steel x 304 Stainless Steel Fittings												
¼"	-325° to 1200°F	1800 psi	4.5	18"	HM	**1CWB5**	1200°F	300 psi	5.0	12"	GA	**48ZZ44**
	1200°F	300 psi	5.0	12"	GA	**48ZZ52**	1200°F	300 psi	5.0	18"	GA	**48ZZ53**
½"	-325° to 1200°F	1186 psi	5.5	12"	HM	**1LMV8**	1200°F	300 psi	5.0	24"	GA	**48ZZ54**
	-325° to 1200°F	1186 psi	5.5	18"	HM	**1LMV9**	1200°F	300 psi	5.0	36"	GA	**48ZZ55**
	-325° to 1200°F	1186 psi	5.5	24"	HM	**1LMW1**	—	—	—	—	—	—
	-325° to 1200°F	1186 psi	5.5	36"	HM	**1LMW2**	—	—	—	—	—	—
¾"	-325° to 1200°F	898 psi	8.0	12"	HM	**1LMW3**	1200°F	300 psi	8.0	12"	GA	**48ZZ56**
	-325° to 1200°F	898 psi	8.0	18"	HM	**1LMW4**	1200°F	300 psi	8.0	24"	GA	**48ZZ58**
	-325° to 1200°F	898 psi	8.0	24"	HM	**1LMW5**	1200°F	300 psi	8.0	36"	GA	**48ZZ59**
	-325° to 1200°F	898 psi	8.0	36"	HM	**1LMW6**	—	—	—	—	—	—
1"	-325° to 1200°F	718 psi	9.0	12"	HM	**1LMW7**	1200°F	300 psi	9.0	12"	GA	**48ZZ60**
	-325° to 1200°F	718 psi	9.0	18"	HM	**1LMW8**	1200°F	300 psi	9.0	18"	GA	**48ZZ61**
	-325° to 1200°F	718 psi	9.0	24"	HM	**1LMW9**	1200°F	300 psi	9.0	24"	GA	**48ZZ62**
	—	—	—	—	—	—	1200°F	300 psi	9.0	36"	GA	**48ZZ63**
1¼"	1200°F	300 psi	10.0	24"	GA	**48ZZ65**	1200°F	300 psi	10.0	18"	GA	**48ZZ64**
	-325° to 1200°F	645 psi	10.0	36"	HM	**1LMX4**	—	—	—	—	—	—
1½"	-325° to 1200°F	531 psi	11.0	18"	HM	**1LMX5**	1200°F	300 psi	11.0	24"	GA	**48ZZ68**
	-325° to 1200°F	531 psi	11.0	24"	HM	**1LMX6**	—	—	—	—	—	—
	-325° to 1200°F	531 psi	11.0	36"	HM	**1LMX7**	—	—	—	—	—	—
2"	-325° to 1200°F	449 psi	13.0	18"	HM	**1LMX8**	1200°F	300 psi	13.0	18"	GA	**48ZZ70**
	-325° to 1200°F	449 psi	13.0	24"	HM	**1LMX9**	1200°F	300 psi	13.0	24"	GA	**48ZZ71**
	-325° to 1200°F	449 psi	13.0	36"	HM	**1LMY1**	1200°F	300 psi	13.0	36"	GA	**48ZZ72**
316 Stainless Steel x 316 Stainless Steel Fittings												
½"	-325° to 1200°F	1186 psi	5.5	24"	HM	**4FKF3**	—	—	—	—	—	—
	-325° to 1200°F	1186 psi	5.5	36"	HM	**4FKF4**	—	—	—	—	—	—
¾"	-325° to 1200°F	898 psi	8	12"	HM	**4FKF5**	1200°F	300 psi	8.0	18"	GA	**49AA41**
	-325° to 1200°F	898 psi	8	18"	HM	**4FKF6**	—	—	—	—	—	—
	-325° to 1200°F	898 psi	8	24"	HM	**4FKF7**	—	—	—	—	—	—
	-325° to 1200°F	898 psi	8	36"	HM	**4FKF8**	—	—	—	—	—	—
1"	-325° to 1200°F	718 psi	9	12"	HM	**4FKF9**	1200°F	300 psi	9.0	12"	GA	**49AA44**
	-325° to 1200°F	718 psi	9	18"	HM	**4FKG1**	1200°F	300 psi	9.0	24"	GA	**49AA46**
	-325° to 1200°F	718 psi	9	36"	HM	**4FKG3**	1200°F	300 psi	9.0	36"	GA	**49AA47**
1¼"	-325° to 1200°F	645 psi	10	24"	HM	**4FKG6**	—	—	—	—	—	—
	-325° to 1200°F	645 psi	10	18"	HM	**4FKG5**	1200°F	300 psi	10.0	12"	GA	**49AA48**
	-325° to 1200°F	645 psi	10	12"	HM	**4FKG4**	—	—	—	—	—	—
1½"	-325° to 1200°F	531 psi	11	18"	HM	**4FKG9**	1200°F	300 psi	11.0	12"	GA	**49AA52**
	-325° to 1200°F	531 psi	11	36"	HM	**4FKH2**	—	—	—	—	—	—
	-325° to 1200°F	531 psi	11	12"	HM	**4FKG8**	—	—	—	—	—	—
2"	-325° to 1200°F	449 psi	13	12"	HM	**4FKH3**	1200°F	300 psi	13.0	12"	GA	**49AA56**
	—	—	—	—	—	—	1200°F	300 psi	13.0	36"	GA	**49AA59**
Carbon Steel x Malleable Iron Fittings												
⅜"	32° to 850°F	1558 psi	5.0	24"	HM	**1CVX8**	—	—	—	—	—	—
	32° to 850°F	1558 psi	5.0	36"	HM	**1CVX9**	—	—	—	—	—	—
½"	32° to 850°F	1186 psi	5.5	18"	HM	**1CVZ2**	850°F	300 psi	5.0	12"	GA	**48ZZ23**
	32° to 850°F	1186 psi	5.5	24"	HM	**1CVZ3**	850°F	300 psi	5.0	36"	GA	**48ZZ26**
¾"	32° to 850°F	898 psi	8.0	12"	HM	**1CVZ5**	850°F	300 psi	8.0	12"	GA	**48ZZ27**
	32° to 850°F	898 psi	8.0	24"	HM	**1CVZ7**	850°F	300 psi	8.0	36"	GA	**48ZZ30**
	32° to 850°F	898 psi	8.0	18"	HM	**1CVZ6**	850°F	300 psi	8.0	24"	GA	**48ZZ29**
1"	32° to 850°F	718 psi	9.0	24"	HM	**1CWA2**	850°F	300 psi	9.0	36"	GA	**48ZZ34**
	32° to 850°F	718 psi	9.0	12"	HM	**1CVZ9**	850°F	300 psi	9.0	12"	GA	**48ZZ31**
	32° to 850°F	718 psi	9.0	18"	HM	**1CWA1**	850°F	300 psi	9.0	24"	GA	**48ZZ33**
	32° to 850°F	718 psi	9.0	36"	HM	**1CWA3**	—	—	—	—	—	—
1¼"	32° to 850°F	645 psi	10.0	36"	HM	**1CWA6**	850°F	300 psi	10.0	36"	GA	**48ZZ37**
	32° to 850°F	645 psi	10.0	18"	HM	**1CWA4**	850°F	300 psi	10.0	18"	GA	**48ZZ35**
	32° to 850°F	645 psi	10.0	24"	HM	**1CWA5**	850°F	300 psi	10.0	24"	GA	**48ZZ36**
1½"	32° to 850°F	531 psi	11.0	18"	HM	**1CWA7**	850°F	300 psi	11.0	24"	GA	**48ZZ39**
	32° to 850°F	531 psi	11.0	24"	HM	**1CWA8**	—	—	—	—	—	—
2"	—	—	—	—	—	—	850°F	300 psi	13.0	24"	GA	**48ZZ42**
	32° to 850°F	449 psi	13.0	18"	HM	**1CWB1**	850°F	300 psi	13.0	18"	GA	**48ZZ41**



No. 1CWB5

★GA GRAINGER APPROVED

HOSE MASTER Inc.

Metal Hose Assemblies

Flexible metal hoses help absorb vibration and compensate for misalignment. Grainger Approved assemblies are mechanically formed, while Hose Master Annuflex style assemblies are hydroformed. All hose assemblies have comparable static minimum bend radiuses and a 304 stainless steel braid. Ideal for air compressors, liquid and vacuum pumps, and pump suction discharge lines. 316 stainless steel hoses generally offer wider corrosion and pitting resistance than 321 stainless steel.

Hose I.D.	GA Temp. Range	Max. Working Pressure @ 70°F	Dynamic Min. Bend Radius (in.)	Hose Length	Item No.
304 Stainless Steel x 304 Stainless Steel Fittings					
¼"	1200°F	2400 psi	5.0	12"	**49AC03**
	1200°F	2400 psi	5.0	24"	**48ZZ95**
½"	1200°F	1175 psi	5.0	12"	**49AC08**
¾"	1200°F	925 psi	8.0	18"	**49AA04**
	1200°F	925 psi	8.0	12"	**49AC11**
1"	1200°F	650 psi	9.0	18"	**49AA07**
	1200°F	650 psi	9.0	36"	**49AA09**
1¼"	1200°F	575 psi	10.0	24"	**49AA10**
	1200°F	575 psi	10.0	12"	**49AA16**
1½"	1200°F	531 psi	11.0	12"	**49AA17**
2"	1200°F	525 psi	13.0	24"	**49AA14**
	1200°F	525 psi	13.0	18"	**49AC23**
316 Stainless Steel x 316 Stainless Steel Fittings					
¼"	1200°F	2400 psi	5.0	18"	**49AA61**
⅜"	1200°F	1800 psi	5.0	36"	**49AA67**
½"	1200°F	1175 psi	5.0	18"	**49AA69**
¾"	1200°F	925 psi	8.0	12"	**49AA72**
1¼"	1200°F	575 psi	10.0	18"	**49AA81**
1½"	1200°F	531 psi	11.0	12"	**49AA84**
2"	1200°F	525 psi	13.0	24"	**49AA90**
3"	1200°F	335 psi	19.0	18"	**49AA95**
Carbon Steel x Carbon Steel Fittings					
¼"	850°F	2400 psi	5.0	12"	**49AC02**
½"	850°F	1175 psi	5.0	18"	**48ZZ79**
	850°F	1175 psi	5.0	24"	**48ZZ80**
¾"	850°F	925 psi	8.0	24"	**48ZZ83**
1"	850°F	650 psi	9.0	36"	**48ZZ87**
1¼"	850°F	575 psi	10.0	36"	**48ZZ89**
1½"	850°F	531 psi	11.0	24"	**48ZZ90**
2"	850°F	525 psi	13.0	10½"	**49AC21**

Hose I.D.	HM Temp. Range	Max. Working Pressure @ 70°F	Dynamic Min. Bend Radius (in.)	Hose Length	Item No.
304 Stainless Steel x 304 Stainless Steel Fittings					
¼"	-325° to 1200°F	1800 psi	4.5	18"	**2ZV47**
	-325° to 1200°F	1800 psi	4.5	24"	**2ZV48**
⅜"	-325° to 1200°F	1558 psi	5.0	24"	**2ZV51**
	-325° to 1200°F	1558 psi	5.0	36"	**2ZV52**
	-325° to 1200°F	1558 psi	5.0	12"	**6MP26**
½"	-325° to 1200°F	1186 psi	5.5	36"	**2ZV55**
	-325° to 1200°F	1186 psi	5.5	24"	**2ZV54**
¾"	-325° to 1200°F	898 psi	8.0	36"	**2ZV58**
1"	-325° to 1200°F	718 psi	9.0	12"	**6MP35**
	-325° to 1200°F	645 psi	10	12"	**4FJL4**
1¼"	-325° to 1200°F	645 psi	10.0	24"	**2ZV62**
	-325° to 1200°F	645 psi	10.0	18"	**6MP38**
1½"	-325° to 1200°F	531 psi	11.0	24"	**2ZV64**
	-325° to 1200°F	531 psi	11.0	18"	**6MP41**
2"	-325° to 1200°F	449 psi	13.0	36"	**2ZV67**
316 Stainless Steel x 316 Stainless Steel Fittings					
¼"	-325° to 1200°F	1800 psi	4.5	12"	**4FKH7**
	-325° to 1200°F	1800 psi	4.5	18"	**4FKH8**
	-325° to 1200°F	1800 psi	4.5	24"	**4FKH9**
⅜"	-325° to 1200°F	1558 psi	5	36"	**4FKJ5**
¾"	-325° to 1200°F	898 psi	8	36"	**4FKK4**
1¼"	-325° to 1200°F	645 psi	10	24"	**4FKL2**
2"	-325° to 1200°F	449 psi	13	18"	**4FKL9**
Carbon Steel x Carbon Steel Fittings					
¼"	32° to 850°F	1800 psi	4.5	12"	**6MP22**
⅜"	32° to 850°F	1558 psi	5.0	36"	**2ZV31**
	32° to 850°F	1558 psi	5.0	24"	**2ZV30**
½"	32° to 850°F	1186 psi	5.5	36"	**2ZV34**
	32° to 850°F	1186 psi	5.5	6½"	**6MP27**
	32° to 850°F	1186 psi	5.5	12"	**6MP28**
¾"	32° to 850°F	898 psi	8.0	24"	**2ZV36**
1"	32° to 850°F	718 psi	9.0	8"	**6MP33**
	32° to 850°F	718 psi	9.0	12"	**6MP34**
1½"	32° to 850°F	531 psi	11.0	24"	**2ZV43**
	32° to 850°F	531 psi	11.0	18"	**6MP40**
2"	32° to 850°F	449 psi	13.0	10½"	**6MP42**
	32° to 850°F	449 psi	13.0	18"	**6MP43**



No. 49AC03

★GA GRAINGER APPROVED

HOSE MASTER Inc.

Metal Hose Assemblies, MNPT x MNPT

These flexible metal hoses can compensate for misalignment and absorb vibration. Grainger Approved assemblies are mechanically formed, while Hose Master Annuflex style assemblies are hydroformed. All hose assemblies have comparable static minimum bend radiuses and a 304 stainless steel braid. Hose assemblies are ideal for air compressors, liquid and vacuum pumps, and pump suction discharge lines. The 316 stainless steel hoses generally offer wider corrosion and pitting resistance than 321 stainless steel.

HOSE MASTER Inc.

Annuflex Metal Hose Assemblies with Fixed x Floating Flanges


No. 1LMY3

- Max. pressure: 275 psi at 70°F
- Max. temp.: 850°F

Hydroformed flexible metal hoses absorb vibration and compensate for misalignment to ease hookup. Hose assemblies have 304 stainless steel braid. 316 stainless steel hoses generally offer wider corrosion and pitting resistance than 321 stainless steel.

Dia. (in.)	Static Min. Bend Radius (in.)	M Fixed Flange x M Floating Flange 321 Stainless Steel Hose w/304 Stainless Steel Braid 12"L Item No.	18"L Item No.	24"L Item No.	36"L Item No.	M Floating Flange x M Floating Flange 316 Stainless Steel Hose w/304 Stainless Steel Braid 12"L Item No.	18"L Item No.	24"L Item No.	36"L Item No.
1½	3.9	1LMY2	1LMY3	1LMY4	1LMY5	—	—	—	—
2	5.1	1LMY6	1LMY7	1LMY8	1LMY9	4FKC4	4FKC5	4FKC6	4FKC7
2½	6.8	—	—	—	—	4FKD8	4FKC8	4FKC9	4FKD1
3	7.8	1LMZ1	1LMZ2	1LMZ3	1LMZ4	4FKD9	4FKD2	4FKD3	4FKD4
4	9.8	1LMZ5	1LMZ6	1LMZ7	1LMZ8	4FKE1	4FKD5	4FKD6	4FKD7

HOSE MASTER Inc.

Annuflex Metal Hose Assemblies with Fixed Flanges


No. 2ZV24

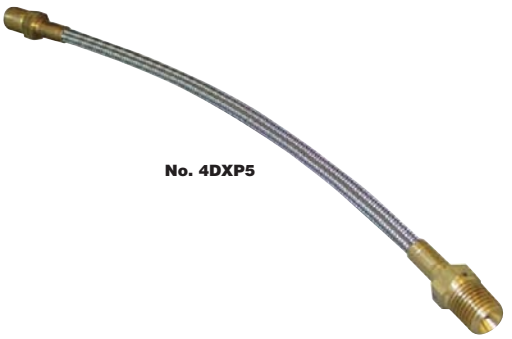
- Max. temp.: 850°F
- Hydroformed for long cycle life
- Fabricated by ASME IX Certified welders

Flexible hoses have 2 fixed carbon steel 150-lb. flanges at each end. Absorb vibration and compensate for misalignment during hookup. Suitable for air compressors, vacuum pumps, and centrifugal pumps.

Dia. (in.)	L (in.)	Max. Working Pressure @ 70°F	Static Min. Bend Radius (in.)	Item No.	Dia. (in.)	L (in.)	Max. Working Pressure @ 70°F	Static Min. Bend Radius (in.)	Item No.
1½	9	531 psi	3.9	2ZV24	4	9	299 psi	9.8	6MP47
2	9	449 psi	5.1	6MP44	6	11	210 psi	14.8	6MP68
3	9	346 psi	7.8	6MP46	8	12	250 psi	18.0	2ZV25

PTFE Flexible Hose Assemblies with Stainless Steel Cover—MNPT

GRAINGER APPROVED


No. 4DXP5

- Temp. range: -65 to 450°F
- Smooth bore

PTFE tubing with 304 stainless steel braid is compatible with 99% of fluids. Can be used in trucks, compressor discharge, petrochemical plants, chemical and steam applications, food processing plants, and more. PTFE tubing meets FDA and SAE 100R14.

Pipe Size (in.)	Dia. (in.)	Max. Working Pressure (psi)	Static Min. Bend Radius (in.)	Length (In.) 12 Item No.	18 Item No.	24 Item No.	36 Item No.	48 Item No.	60 Item No.
MNPT x MNPT									
⅛	3/16	3000	2	4DXP5	4DXP6	4DXU4	4DXP8	4DXU6	4DXR1
⅛	3/16	3000	2	4DXU2	4DXU3	4DXP7	—	4DXP9	4DXU7
⅛	3/16	3000	2	—	—	—	4DXU5	—	—
¼	5/16	2500	4	4DXR2	4DXR3	4DXV1	4DXR5	4DXV3	4DXR7
¼	5/16	2500	4	4DXU8	4DXU9	4DXR4	—	4DXR6	4DXV4
¼	5/16	2500	4	—	—	—	4DXV2	—	—
⅜	13/32	2000	5.2	4DXR8	4DXR9	4DXV7	4DXT2	4DXV9	4DXT4
⅜	13/32	2000	5.2	4DXV5	4DXV6	4DXT1	—	4DXT3	4DXW1
⅜	13/32	2000	5.2	—	—	—	4DXV8	—	—
½	½	1500	6.5	4DXT5	4DXT6	4DXW4	4DXT8	4DXW6	4DXU1
½	½	1500	6.5	4DXW2	4DXW3	4DXT7	—	4DXT9	4DXW7
½	½	1500	6.5	—	—	—	4DXW5	—	—

HOSE MASTER Inc.

Interlocked Metal Hose Assemblies


No. 16T775

- Max. temp.: 1200°F
- Unbraided

INTERFLEX ROUGHBORE

General-purpose hose is made from a single strip of metal that is profiled and locked onto itself. The interlocked sections can slide back and forth, allowing greater flexibility and durability. Coupled with 304 stainless steel Schedule 40 male nipples welded at each end. Suitable for high-temperature ducting and as a hot air blower hose.

ULTRAFLEX SMOOTHBORE (LINED)

Constructed from two 0.018" 304 stainless steel strips to form a durable armored hose with a smooth, abrasion-resistant metal liner. Suitable for bulk transfer of grain, wood chips, plastic pellets, and other abrasive materials.

Dia. (in.)	L (in.)	Static Min. Bend Radius (in.)	Item No.
Roughbore			
1½	72	6	16T775
	96		16T776
	120		16T777
	144		16T778
	168		16T779
	192		16T780
	216		16T781
	240		16T782
2	72	8	16T783
	96		16T784
	120		16T785
	144		16T786
	168		16T787
	192		16T788
	216		16T789
	240		16T790
3	72	12	16T791
	96		16T792
	120		16T793
	144		16T794
	168		16T795
	192		16T796
	216		16T797
	240		16T798
4	72	16	16T799
	96		16T801
	120		16T802
	144		16T803
	168		16T804
	192		16T805
	216		16T806
	240		16T807
5	72	19	16T808
	96		16T809
	120		16T810
	144		16T811
	168		16T812
	192		16T813
	216		16T814
	240		16T815
6	72	23	16T816
	96		16T817
	120		16T818
	144		16T819
	168		16T820
	192		16T821
	216		16T822
	240		16T823

Dia. (in.)	L (in.)	Static Min. Bend Radius (in.)	Item No.
Smoothbore (Lined)			
1½	72	8	16T824
	96		16T825
	120		16T826
	144		16T827
	168		16T828
	192		16T829
	216		16T830
	240		16T831
	300		16T832
2½	72	12	16T833
	96		16T834
	120		16T835
	144		16T836
	168		16T837
	192		16T838
	216		16T839
	240		16T840
	300		16T841
3	72	14	16T842
	96		16T843
	120		16T844
	144		16T845
	168		16T846
	192		16T847
	216		16T848
	240		16T849
	300		16T850
4	72	18	16T851
	96		16T852
	120		16T853
	144		16T854
	168		16T855
	192		16T856
	216		16T857
	240		16T858
	300		16T859
5	72	23	16T860
	96		16T861
	120		16T862
	144		16T863
	168		16T864
	192		16T865
	216		16T866
	240		16T867
	300		16T868
6	72	27	16T869
	96		16T870
	120		16T871
	144		16T872
	168		16T873
	192		16T874
	216		16T875
	240		16T876
	300		16T877

GA GRAINGER APPROVED

Molded Expansion Joints

- Max. pressure (Drilled): 225 psi at 72°F
- Max. pressure (Flanged): 231 psi

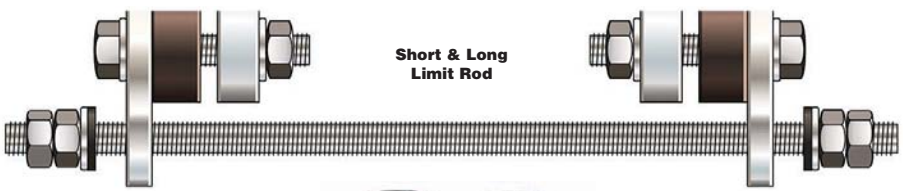
Flexible, nonmetallic joints absorb pipe movement/stress to reduce system noise and extend system life. Models can also absorb water pulsation and minimize water hammer. Single Sphere models help prevent piping system damage by absorbing contraction and elongation movement caused by temperature variances. The floating flanges ease installation. Double Sphere models help prevent piping system damage by absorbing greater contraction, elongation, and angular movement than single sphere models. Also act as a good electrical insulator. Corrosion-resistant plated carbon steel flanges rotate for quick installation. Neoprene connectors are tapped to ANSI 125/150 drilling. All joints are ideal for use in HVAC, petrochemical, industrial piping, power generating, marine service, pulp and paper, water and wastewater, and pollution control applications.


No. 1CZD9


No. 1CZD5


No. 1CZF4

Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Temp. Range	Vacuum	Flange Thickness	Single Sphere EPDM Overall Length	Single Sphere EPDM Item No.	Single Sphere Neoprene Overall Length	Single Sphere Neoprene Item No.	Double Sphere EPDM Overall Length	Double Sphere EPDM Item No.	Double Sphere Neoprene Overall Length	Double Sphere Neoprene Item No.
Drilled														
1"	4¼"	4	½"-13	-50 to 230°F	26" Hg @ 72°F	0.55"	6	**1CZD9**	6	**1CZD2**	—	—	—	—
1½"	5"	4	½"-13	-50 to 230°F	26" Hg @ 72°F	0.55"	6	**1CZE1**	6	**1CZC9**	7	**1CZF8**	7	**1CZE9**
2"	6"	4	⅝"-11	-50 to 230°F	26" Hg @ 72°F	0.63"	6	**1CZE2**	6	**1CZD1**	7	**1CZF9**	—	—
2"	6"	4	¾"	-50 to 230°F	26" Hg @ 72°F	0.63"	—	—	—	—	—	—	7	**1CZF1**
2½"	7"	4	⅝"-11	-50 to 230°F	26" Hg @ 72°F	0.71"	6	**1CZE3**	6	**1CZD3**	7	**1CZG1**	7	**1CZF2**
3"	7½"	4	⅝"-11	-50 to 230°F	26" Hg @ 72°F	0.71"	6	**1CZE4**	6	**1CZD4**	7	**1CZG2**	7	**1CZF3**
4"	9"	8	⅝"-11	-50 to 230°F	26" Hg @ 72°F	0.71"	6	**1CZE5**	6	**1CZD5**	9	**1CZG3**	9	**1CZF4**
5"	10"	8	¾"-10	-50 to 230°F	26" Hg @ 72°F	0.79"	6	**1CZE6**	6	**1CZD6**	9	**1CZG4**	9	**1CZF5**
6"	11"	8	¾"-10	-50 to 230°F	26" Hg @ 72°F	0.87"	6	**1CZE7**	6	**1CZD7**	9	**1CZG5**	9	**1CZF6**
8"	13½"	8	¾"-10	-50 to 230°F	26" Hg @ 72°F	0.87"	6	**1CZE8**	6	**1CZD8**	13	**1CZG6**	13	**1CZF7**
Flanged														
1"	—	4	0.63"	170°F	26" Hg @ 72°F	0.55	—	—	—	—	—	—	6	**45RF83**
1"	—	4	0.63"	210°F	26" Hg @ 72°F	0.55	—	—	—	—	5"	**45RF85**	—	—
1¼"	—	4	0.63"	170°F	26" Hg @ 72°F	0.63	—	—	6	**45RF81**	—	—	6	**45RF84**
1¼"	—	4	0.63"	210°F	26" Hg @ 72°F	0.63	6	**45RF82**	—	—	6	**45RF86**	—	—
10"	—	12	1"	170°F	10" Hg @ 72°F	0.91	8	**45RF77**	—	—	—	—	8	**45RF87**
10"	—	12	1"	210°F	10" Hg @ 72°F	0.91	8	**45RF79**	—	—	8	**45RF89**	—	—
12"	—	12	1"	170°F	3" Hg @ 72°F	0.95	8	**45RF78**	—	—	—	—	8	**45RF88**
12"	—	12	1"	210°F	3" Hg @ 72°F	0.95	8	**45RF80**	—	—	8	**45RF90**	—	—







GA GRAINGER APPROVED

Wide Arch and Threaded Union Molded Expansion Joints

Use to help reduce vibration and dampen sound transmission. Meet ANSI B16.5.

SHORT AND LONG LIMIT ROD

This assembly consists of 2 control rods (tie rods) placed across an expansion joint from flange to flange to help prevent damage caused by excessive pipe movement. Designed to only limit extension movement. Flanged connection.

Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Flange Thickness	Short Limit Rod Item No.	Long Limit Rod Item No.
1"	8⅜"	2	⅝"	0.43"	**45NE92**	**45NF05**
1¼"	9¾"	2	⅝"	0.43"	**45NE93**	**45NF06**
1½"	9⅞"	2	⅝"	0.43"	**45NE94**	**45NF07**
2"	11¼"	2	¾"	0.43"	**45NE95**	**45NF08**
2½"	12¼"	2	¾"	0.43"	**45NE96**	**45NF09**
3"	13¼"	2	¾"	0.43"	**45NE97**	**45NF10**
4"	13½"	2	¾"	0.43"	**45NE98**	**45NF11**
5"	14½"	2	⅞"	0.43"	**45NE99**	**45NF12**
6"	15½"	2	⅞"	0.43"	**45NF01**	**45NF13**
8"	—	2	⅞"	0.43"	**45NF02**	**45NF14**
10"	21⅝"	2	1"	0.75"	**45NF03**	**45NF15**
12"	—	2	1"	0.75"	**45NF04**	**45NF16**

WIDE ARCH

- Max. pressure: 150 psi
- Temp. range (EPDM): -50° to 240°F
- Temp. range (Neoprene): -50° to 212.5°F
- Vacuum: 15" Hg at 72°F

Feature a larger arch and allow for greater movement and lower spring rate than traditional spool-type rubber expansion joints. Flanged connection.

Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Overall Length	Flange Thickness	Wide Arch EPDM Item No.	Wide Arch Neoprene Item No.
2"	6"	4	¾"	6"	0.75"	**45NE58**	**45NE67**
2½"	7"	4	¾"	6"	0.87"	**45NE59**	**45NE68**
3"	7½"	4	¾"	6"	0.93"	**45NE60**	**45NE69**
4"	9"	8	¾"	6"	0.93"	**45NE61**	**45NE70**
5"	10"	8	⅞"	6"	0.93"	**45NE62**	**45NE71**
6"	11"	8	⅞"	6"	1"	**45NE63**	**45NE72**
8"	13½"	8	⅞"	6"	1.12"	**45NE64**	**45NE73**
10"	16"	12	1"	8"	1.18"	**45NE65**	**45NE74**
12"	19"	12	1"	8"	1.25"	**45NE66**	**45NE75**

THREADED UNION

- Max. pressure: 150 psi
- Temp. range: - 50° to 194°F
- Vacuum: 26" Hg at 72°F

Designed to absorb thermal movement, offset, and misalignment in most piping systems, and to protect piping from start-up vibration and system surges. The neoprene or EPDM body eliminates metal-to-metal contact and helps prevent electrolytic action. Tapped holes connection.

Pipe Size	Overall Length	Threaded Union EPDM Item No.	Threaded Union Neoprene Item No.	Threaded Union Galvanized Item No.
½"	8"	**45NE76**	**45NE84**	—
¾"	8"	**45NE77**	**45NE85**	—
1"	8"	**45NE78**	**45NE86**	—
1¼"	8"	**45NE79**	—	**45NE87**
1½"	8"	**45NE80**	**45NE88**	—
2"	8"	**45NE81**	**45NE89**	—
2½"	9.60"	**45NE82**	**45NE90**	—
3"	9.60"	**45NE83**	**45NE91**	—


No. 1CVB2


No. 1CVE6


No. 35PP39


No. 1CVF7

Rotary Unions, Cartridges, and Joint Elbows

Duff-Norton

Transfer steam and fluids to rotating drums or rolls to control surface temperatures. Unions and elbows also transfer air or hydraulic fluid to moving components, and add fluids to mixers while in motion. All models have NPT connection, except Rotary Union Cartridges.

9000 SERIES ROTARY UNIONS

- Max. speed: 700 rpm
- Max. pressure: 250 psi water; 150 psi steam (except Nos. 35PP27 to 35PP38 are 175 psi); 100 psi hot oil
- Max. temp.: 375°F water, steam, hot oil (except Nos. 35PP27 to 35PP38 are 378°F steam and 600°F hot oil)

Bellows-type seal resists hangup in contaminated media. Dual-flow joints accept NPT threaded stationary pipe.

5000 SERIES ROTARY UNIONS

- Max. speed: 1000 rpm NPT; 550 rpm air
- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Corrosion-resistant unions have 2 precision bearings with fluorocarbon O-rings. Dual flow unions require rotary joint elbow.

5000 SERIES ROTARY JOINT ELBOWS

- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; No. 35PP39 is also 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Convert Duff-Norton Rotary Unions from single to dual flow.

Size	Rotation	Flow	Body Dia.	Item No.
9000 Series Rotary Unions				
¼"	Left Hand	Single	1¾"	**35PP27**
	Right Hand	Single	1¾"	**1CVB2**
⅜"	Left Hand	Single	1¾"	**35PP29**
	Right Hand	Single	1¾"	**35PP28**
½"	Left Hand	Single	2⅜"	**35PP30**
	Left Hand	Dual	2⅜"	**35PP35**
	Right Hand	Single	2⅜"	**1CVB3**
	Right Hand	Dual	2⅜"	**1CVC3**
¾"	Left Hand	Single	2½"	**1CVB4**
	Left Hand	Dual	2½"	**35PP36**
	Right Hand	Dual	2½"	**1CVC4**
	Right Hand	Single	2½"	**1CVB5**
1"	Left Hand	Single	3"	**1CVB6**
	Left Hand	Dual	3"	**1CVC5**
	Right Hand	Single	3"	**1CVB7**
	Right Hand	Dual	3"	**1CVC6**
1¼"	Left Hand	Single	3¾"	**35PP32**
	Left Hand	Single or Dual	3¾"	**35PP37**
	Right Hand	Dual	3¾"	**1CVC7**
	Right Hand	Single	3¾"	**35PP31**
1½"	Left Hand	Dual	4⅛"	**1CVC8**
	Left Hand	Single or Dual	4⅛"	**35PP33**
	Right Hand	Single	4⅛"	**1CVB8**
	Right Hand	Dual	4⅛"	**1CVC9**
2"	Left Hand	Single	5⅞"	**35PP34**
	Right Hand	Single or Dual	4⅜"	**35PP25**
	Right Hand	Single	5⅞"	**1CVB9**
	Right Hand	Dual	5⅞"	**1CVD1**

Size	Rotation	Flow	Body Dia.	Item No.
5000 Series Rotary Unions				
¼"	Left Hand	Single or Dual	1⅜16"	**35PP22**
	Right Hand	Single or Dual	1⅜16"	**35PP21**
⅜"	Left Hand	Single or Dual	1⅜16"	**35PP23**
	Right Hand	Single or Dual	1⅜16"	**1CVE6**
½"	Left Hand	Single or Dual	2⅛16"	**35PP24**
	Right Hand	Single or Dual	2⅛16"	**1CVE7**
¾"	Left Hand	Single or Dual	2⅝16"	**1CVE8**
	Right Hand	Single or Dual	2⅝16"	**1CVE9**
1"	Left Hand	Single or Dual	3⅛"	**1CVF1**
	Right Hand	Single or Dual	3⅛"	**1CVF2**
1¼"	Left Hand	Single or Dual	3½"	**1CVF3**
	Right Hand	Single or Dual	3½"	**1CVF4**
1½"	Right Hand	Single or Dual	4"	**1CVF6**
2"	Left Hand	Single or Dual	4⅜"	**35PP26**
	Left Hand	Single or Dual	5⅛"	**35PP38**

Size	Tube Outside Dia.	Item No.
5000 Series Rotary Joint Elbows		
⅛"	⅛"	**1CVH1**
⅜"	¼"	**1CVG8**
½"	⅛"	**1CVG9**
1"	¼"	**1CVH2**
1¼"	½"	**1CVH3**
1½"/2"	½"	**1CVH4**
2"	¾"	**35PP39**

For Use With	Item No.
Rotary Union Cartridges	
For 9000 Series Rotary Unions	
1CVB2 Rotary Union	**1CVD3**
1CVB9, 1CVD1 Rotary Unions	**1CVE3**
1CVC7 Rotary Union	**1CVD9**
For 5000 Series Rotary Unions	
1CVE6 Rotary Union	**1CVF7**
1CVE7 Rotary Union	**1CVF8**
1CVE9 Rotary Union	**1CVG1**
1CVF2 Rotary Union	**1CVG3**


No. 40F008


No. 40E990


No. 40E997


No. 40E993


No. 40E973


No. 40E981

Rotary Unions/Swivels

MOSMATIC
High Pressure Cleaning Technology

304 stainless steel construction for maintenance-free performance and longer life. Suitable for use in conveyor belt cleaning, pipe cleaning, spray parts washers, hose reels, tunnel wash systems, and high-pressure cleaning systems.

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
Manual Rotation					
DGE 90 Deg Medium Single Bearing System Swivel, O-Ring Seal					
Inlet ½"NPTF - Outlet ½"NPTF	250°F	4000 psi	30 rpm	1.65"	**40F008**
Inlet ¾"NPTF - Outlet ¾"NPTM	250°F	4000 psi	30 rpm	1.97"	**40F007**
DGE Inline Medium Single Bearing System Swivel, O-Ring Seal					
Inlet 1 ¼"NPTF - Outlet 1 ¼"NPTM	250°F	4000 psi	30 rpm	2.36"	**40F006**
DGS Inline + 90° Dual Bearing System Swivel, O-Ring Seal					
Inlet ¼"NPTF - Outlet ¼"NPTF	250°F	4000 psi	30 rpm	0.86"	**40E990**
Inlet ¼"NPTF - Outlet ¼"NPTM	250°F	4000 psi	30 rpm	0.86"	**40E986**
Inlet ¼"NPTF - Outlet ⅜"NPTM	250°F	4000 psi	30 rpm	0.86"	**40E987**
Inlet ⅜"NPTF - Outlet ⅜"NPTF	250°F	4000 psi	30 rpm	0.98"	**40E989**
Inlet ⅜"NPTF - Outlet ⅜"NPTM	250°F	4000 psi	30 rpm	0.98"	**40E988**
DGV Inline Single Bearing System, Live, Swivel, O-Ring Seal					
Inlet ½" NPTM - Outlet ½" NPTF	250°F	4000 psi	30 rpm	0.94"	**40E997**
Inlet ¼" NPTM - Outlet ¼" NPTF	250°F	4000 psi	30 rpm	0.94"	**40E994**
Inlet ¾"JICM - Outlet ¾"JICF	250°F	4000 psi	30 rpm	0.94"	**40E999**
Inlet ⅜"NPTF - Outlet ⅜"NPTF	250°F	4000 psi	30 rpm	0.94"	**40E998**
Inlet ⅜" NPTM - Outlet ¼" NPTF	250°F	4000 psi	30 rpm	0.94"	**40E995**
Inlet ⅜" NPTM - Outlet ⅜" NPTF	250°F	4000 psi	30 rpm	0.94"	**40E996**
DKS Swivel Coupling, Live					
Inlet M22x1.5-F - Outlet ¼"NPTF	250°F	3600 psi	30 rpm	1.34"	**40E991**
Inlet M22x1.5-F - Outlet ⅜"NPTF	250°F	3600 psi	30 rpm	1.34"	**40E992**
VER Fittings					
Inlet M22 x 1.5 M - Outlet ¼" NPTM	—	7300 psi	—	—	**40E993**
WDBL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal					
Inlet ⅜"NPTF - Outlet ⅜"NPTM	250°F	4000 psi	200 rpm	1.26"	**40E983**
WDC 90 Deg Dual Bearing System Swivel, O-Ring Seal					
Inlet ½"NPTF - Outlet ½"NPTF	250°F	4000 psi	30 rpm	1.77"	**40F009**
WDCL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal					
Inlet ½"NPTF - Outlet ½"NPTF	250°F	4000 psi	200 rpm	1.77"	**40E985**
Inlet ½"NPTF - Outlet ½"NPTM	250°F	4000 psi	200 rpm	1.77"	**40E984**
WDG 90° Swivel, O-Ring Seal					
Inlet ¼"NPTF - Outlet ⅜"NPTM	200°F	2200 psi	30 rpm	1.77"	**40F004**
Inlet ⅜"NPTF - Outlet ½"NPTF	200°F	2200 psi AT 200°F, 4000 psi AT 250°F	30 rpm	1.77"	**40F003**
Inlet ⅜"NPTF - Outlet ⅜"NPTM	200°F	2200 psi	30 rpm	1.77"	**40F002**
Inlet ⅜"NPTF - Outlet ⅜"NPTM	200°F	2200 psi	30 rpm	1.77"	**40F005**
Inlet G1/4"M - Outlet ⅜"NPTF	250°F	4000 psi	30 rpm	1.26"	**40F001** *
WDRS High Flow 90 deg Dual Bearing System Swivel, O-Ring Seal					
Inlet ¾"NPTF - Outlet ¾"NPTM	40°F To 180°F	150 - 3000 psi	130 rpm	1.97"	**40F010**

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
Self Rotating					
DGG, High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal					
⅜"F Inlet - Outlet G3/8" Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1000 rpm	1.1"	**40E973**
DGG 90° High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal					
⅜"F Inlet - Outlet G3/8" Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1000 rpm	0.98"	**40E974**
DGL High RPM, Triple Bearing System Swivel, O-Ring Seal					
⅜"F Inlet - Outlet G3/8" Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1000 rpm	1.1"	**40E972**
DXF High RPM Triple Bearing System, W/Flange Swivel, Ceramic Seal					
⅜"F Inlet - Outlet G3/8" Male	40°F to 250°F	2500 psi	2000 rpm	1.1"	**40E977**
DXG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Ceramic Seal					
⅜"F Inlet - Outlet G3/8" Male	40°F to 250°F	2500 psi	2000 rpm	2.36"	**40E976**
DXL High RPM Triple Bearing System Swivel, Ceramic Seal					
⅜"F Inlet - Outlet G3/8" Male	40°F to 250°F	2500 psi	2000 rpm	1.1"	**40E975**
DYCI High RPM Triple Bearing System, Reinforced, Carbide Seal					
⅜"F Inlet - Outlet G3/8" Male	250°F	5000 psi	2000 rpm	2.36"	**40E980**
DYF High RPM Triple Bearing System, W/Flange Swivel, Carbide Seal					
⅜"F Inlet - Outlet G3/8" Male	250°F	4000 psi	2000 rpm	2.36"	**40E979**
DYG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Carbide Seal					
⅜"F Inlet - Outlet G3/8" Male	250°F	4000 psi	2000 rpm	2.36"	**40E978**
DYT 90° High RPM Quadruple Bearing System Swivel, Carbide Seal					
¾"F Inlet - Outlet G3/8" Male	250°F	5000 psi	2000 rpm	2.36"	**40E982**
DYT High RPM Quadruple Bearing System Swivel, Carbide Seal					
⅜"F Inlet - Outlet G3/8" Male	250°F	5000 psi	2000 rpm	2.36"	**40E981**

Without snap ring.

Size	For Use With	Includes	Item No.
Carbide Seal Kit			
¼"	¼" NW Mosmatic DY Series Rotary Unions/Swivels	2 - O-Rings, 2 - Carbide Seals, 2 - Spring Washers, 1 - 0.5ml Thread Adhesive, And 1 - Seal Tool	**40E971**

MUELLER INDUSTRIES

Air Conditioning and Refrigeration Copper Coils and Straight Lengths

- Temp. range: 32° to 400°F

Copper refrigeration tubing easily connects air conditioning and refrigeration equipment, using sweating or flare fittings. Coils are nitrogen purged to reduce contaminants. Meets ASTM B280.

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current pricing.





Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	10 ft. Item No.
Straight				
⅜"	0.250"	0.030"	984 psi	2LKJ2
½"	0.375"	0.035"	727 psi	2LKJ3
⅝"	0.500"	0.040"	618 psi	2LKJ4
¾"	0.625"	0.042"	511 psi	2LKJ5
⅞"	0.750"	0.045"	582 psi	2LKJ6
1⅛"	1.000"	0.050"	494 psi	2LKJ7
1⅜"	1.250"	0.055"	439 psi	2LKJ8
1⅝"	1.500"	0.060"	408 psi	5WME0

** Rated internal working pressure up to 100°F.*

Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	20 ft. Item No.	50 ft. Item No.	100 ft. Item No.
Coil						
⅛"	0.065"	0.030"	3074 psi	—	2LKJ9	5WME1
3⁄16"	0.127"	0.030"	1935 psi	—	2LKK1	5WME2
¼"	—	0.030"	1406 psi	—	3P669	—
¼"	0.190"	0.030"	1406 psi	2LKK2	—	—
¼"	0.125"	0.030"	1406 psi	—	—	4WTA8
5⁄16"	0.249"	0.032"	1197 psi	—	3P670	4WTA9
⅜"	0.250"	0.032"	700 psi	—	3P671	—
⅜"	0.311"	0.032"	984 psi	2LKK3	—	—
⅜"	0.250"	0.032"	984 psi	—	—	4WTC1
½"	0.375"	0.032"	727 psi	—	3P672	4WTC2
⅝"	0.500"	0.035"	618 psi	—	3P673	4WTC3
¾"	0.625"	0.035"	511 psi	—	3P674	4WTC4
⅞"	0.750"	0.045"	582 psi	—	4P866	4WTC5
1⅛"	1.025"	0.050"	494 psi	—	4WTC6	5WME3
1⅜"	1.265"	0.055"	439 psi	—	4WTC7	—

Type K and Type L Copper Water Tubing, Coils

- Temp. range: 32° to 400°F

Use Type K tubing to connect water mains and meters and to form heavy-duty underground vacuum pump lines. A high melting point helps maintain pressure when subjected to flames; ideal for fire sprinkler systems. Thick-walled, Type L tubing is designed for above- or below-ground water service and hydronic heater applications. All tubing meets ASTM B88 and building codes in all 50 states.

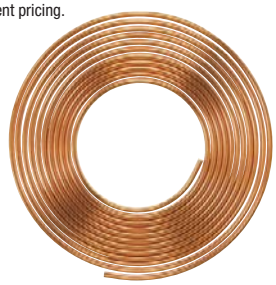
MUELLER INDUSTRIES

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current pricing.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	40 ft. Item No.	60 ft. Item No.	100 ft. Item No.
Type K							
¼"	⅜"	0.305"	0.035"	1074 psi	—	2LKK9	—
¼"	⅜"	0.250"	0.035"	1074 psi	—	—	4WTC9
⅜"	½"	0.402"	0.049"	1130 psi	—	2LKL1	—
⅜"	½"	0.375"	0.049"	1130 psi	—	—	4WTD1
½"	⅝"	0.527"	0.049"	891 psi	—	2LKL2	—
½"	⅝"	0.500"	0.049"	891 psi	—	—	4WTD2
⅝"	¾"	0.625"	0.049"	736 psi	—	4WTD3	4WTD4
¾"	⅞"	0.745"	0.065"	852 psi	—	4LW30	—
¾"	⅞"	0.750"	0.065"	852 psi	—	—	4WTD5
1"	1⅛"	0.995"	0.065"	655 psi	—	4LW31	—
1"	1⅛"	1.000"	0.065"	655 psi	—	—	4WTD6
1¼"	1⅜"	1.250"	0.065"	532 psi	—	4WTD7	—
1½"	1⅝"	1.500"	0.072"	494 psi	—	4WTD9	—
2"	2⅛"	2.000"	0.083"	435 psi	4WTE3	—	—

** Rated internal working pressure up to 100°F.*

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	20 ft. Item No.	60 ft. Item No.	100 ft. Item No.
Type L							
¼"	⅜"	0.250"	0.030"	912 psi	4WTE4	—	4WTE5
¼"	⅜"	0.315"	0.030"	912 psi	—	3P665	—
⅜"	½"	0.375"	0.035"	779 psi	2LKL9	—	4WTE6
⅜"	½"	0.430"	0.035"	779 psi	—	3P666	—
½"	⅝"	0.545"	0.040"	722 psi	2LKN1	3P667	—
½"	⅝"	0.500"	0.040"	722 psi	—	—	4WTE7
⅝"	¾"	0.625"	0.042"	631 psi	—	4WTE8	4WTE9
¾"	⅞"	0.785"	0.045"	582 psi	—	3P668	—
¾"	⅞"	0.750"	0.045"	582 psi	—	—	4WTG1
1"	1⅛"	1.000"	0.050"	494 psi	—	4WTG2	4WTG3
1¼"	1⅜"	1.250"	0.055"	439 psi	—	—	4WTG5



Type K, L, and M Copper Water Tubing, Straight Lengths

MUELLER INDUSTRIES

- Rated internal working pressure up to 100°F
- Temp. range: 32° to 400°F

Type K tubing is used to connect water main and meters, and to form heavy-duty underground vacuum pump lines. Thick-walled Type L tubing can be used for both inside and outside applications. Thin-walled Type M is commonly used in homes, behind walls. Tubing meets ASTM B88 and meets or exceeds building codes in all 50 states.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	2 ft. Item No.	5 ft. Item No.	10 ft. Item No.
Type K							
¼"	⅜"	0.250"	0.035"	1074 psi	—	4WTN4	4WTN5
⅜"	½"	0.375"	0.049"	1130 psi	4WTN6	4WTN7	4WTN8
½"	⅝"	0.500"	0.049"	891 psi	4WTN9	4WTP1	4WTP2
⅝"	¾"	0.625"	0.049"	736 psi	4WTP3	4WTP4	—
⅝"	¾"	0.652"	0.049"	736 psi	—	—	4WTP5
¾"	⅞"	0.750"	0.065"	852 psi	4WTP6	4WTP7	4WTP8
1"	1⅛"	1.000"	0.065"	655 psi	4WTP9	4WTR1	4WTR2
1¼"	1⅜"	1.250"	0.065"	532 psi	—	—	4WTR5
1½"	1⅝"	1.500"	0.072"	494 psi	—	—	4WTR8
2"	2⅛"	2.000"	0.083"	435 psi	—	—	4WTT2
2½"	2⅝"	2.500"	0.095"	338 psi	—	—	4WTT5
3"	3⅛"	3.000"	0.109"	270 psi	—	—	4WTT8
4"	4⅛"	4.000"	0.134"	360 psi	—	—	22FC82

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current pricing.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	2 ft. Item No.	5 ft. Item No.	10 ft. Item No.
Type L							
¼"	⅜"	0.250"	0.030"	912 psi	4WTG9	—	4WTH2
¼"	⅜"	¼"	0.030"	912 psi	—	4WTH1	—
⅜"	½"	0.375"	0.035"	779 psi	4WTH3	—	—
⅜"	½"	0.430"	0.035"	779 psi	—	4WTH4	—
⅜"	½"	⅜"	0.035"	779 psi	—	—	4WTH5
½"	⅝"	0.500"	0.040"	722 psi	4WTH6	2LKL5	6KZ19
⅝"	¾"	0.625"	0.042"	631 psi	4WTH7	4WTH8	4WTH9
¾"	⅞"	0.750"	0.045"	582 psi	4WTJ1	2LKL6	6KZ21
1"	1⅛"	1.000"	0.050"	494 psi	4WTJ2	4WTJ3	—
1"	1⅛"	1.025"	0.050"	494 psi	—	—	6KZ22
1¼"	1⅜"	1.265"	0.055"	439 psi	—	—	3ZA94
1½"	1⅝"	1.505"	0.060"	347 psi	—	—	3ZA95
2"	2⅛"	1.985"	0.070"	309 psi	—	—	3ZA96
2½"	2⅝"	2.500"	0.080"	336 psi	—	—	22FC83
3"	3⅛"	3.000"	0.090"	270 psi	—	—	4WTK3
Type M							
⅜"	½"	⅜"	0.025"	570 psi	—	—	22FC79
½"	⅝"	0.500"	0.028"	850 psi	4WTK4	4WTK5	—
½"	⅝"	0.569"	0.028"	850 psi	—	—	6KZ24
⅝"	¾"	0.625"	0.030"	494 psi	—	—	22FC80
¾"	⅞"	0.750"	0.032"	701 psi	4WTK6	4WTK7	—
¾"	⅞"	0.811"	0.032"	701 psi	—	—	6KZ26
1"	1⅛"	1.000"	0.035"	580 psi	4WTK8	4WTK9	—
1"	1⅛"	1.055"	0.035"	580 psi	—	—	6KZ27
1¼"	1⅜"	1.291"	0.042"	582 psi	—	—	3ZA97
1½"	1⅝"	1.527"	0.049"	569 psi	—	—	3ZA98
2"	2⅛"	2.009"	0.058"	514 psi	—	—	3ZA99
2½"	2⅝"	2.500"	0.065"	471 psi	—	—	4WTL9
3"	3⅛"	3.000"	0.072"	435 psi	—	—	4WTN3
4"	4⅛"	4.000"	0.095"	251 psi	—	—	22FC81



DWV Copper Tubing, Straight Lengths

MUELLER INDUSTRIES

- Temp. range: 32° to 100°F
- Tube length: 10 ft.

For use in drain, waste and vent systems. Meets ASTM B306.

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current pricing.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	Item No.
1¼"	1⅜"	1.250"	0.040"	330 psi	22FC88
1½"	1⅝"	1.500"	0.042"	293 psi	22FC89
2"	2⅛"	2.000"	0.042"	217 psi	22FC90
3"	3⅛"	3.000"	0.045"	159 psi	22FC91
4"	4⅛"	4.000"	0.058"	150 psi	22FC92



Rapid Pipe Repair Clamps

ROTHENBERGER
pipetool technologies at work

Compact repair clamps are simple to use and can easily repair a burst or leaking pipe. Once installed, they allow the pipe to function under normal temperatures and pressures until you can complete a permanent repair. Non-toxic construction, reusable, and suitable for use with metal, multilayer, or plastic pipe.



Pipe Size	Fits Outside Dia.	Max. Pressure (psi)	Temp. Range	Item No.
½"	0.84"	87	32° to 185°F	53RF29
¾"	0.84"	87	32° to 185°F	53RF30



50-ft. Length
No. 3ADC6



6-ft. Length
No. 3CAE1

GA GRAINGER APPROVED

304 and 316 Stainless Steel Tubing and Coils—Welded and Seamless

Meets ASTM 269.

304 STAINLESS STEEL

- Temp. range: -423° to 1500°F

The most versatile and widely used of stainless steel grades, due to its combination of corrosion resistance, formability, and ductility.

Welded

Less costly than seamless or welded-and-drawn tubing and requires less stock removal in machining applications. Can also be produced with extremely thin walls.

Seamless

Features heavier wall thicknesses for mechanical applications. Ideal for food and beverage, pharmaceutical, and chemical and petrochemical processing applications.

316 STAINLESS STEEL

- Temp. range: -325° to 1500°F

Provides the best resistance to pitting and corrosion of any of the austenitic (300 series) stainless steels. Extremely ductile, with excellent strength at elevated temperatures.

Welded

Weld bead remains on the inside diameter. Less expensive than seamless or welded-and-drawn tubing.

Seamless

Seamless tubing can be produced with heavier wall thicknesses for mechanical applications. Ideal for hydraulic and instrumentation tubing in chemical, textile, and pulp and paper industries, and in marine environments.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Welded Tubing - 6 ft. Lengths					
0.027"	1/8"	0.049"	12014 psi @ 72°F	—	3ADK8
0.055"	1/8"	0.035"	8582 psi @ 72°F	3ADD6	3ADK7
0.069"	1/8"	0.028"	7140 psi @ 72°F	3ADD5	3ADK6
0.085"	1/8"	0.020"	4904 psi @ 72°F	3ADD4	3ADK5
0.090"	3/16"	0.049"	8093 psi @ 72°F	3ADU6	—
0.093"	1/8"	0.016"	3923 psi @ 72°F	3ADD3	3ADK4
0.118"	3/16"	0.035"	5780 psi @ 72°F	3ADU5	3CAD2
0.120"	1/4"	0.065"	8125 psi @ 72°F	3ADE2	3CAD9
0.132"	3/16"	0.028"	4747 psi @ 72°F	3ADU4	3CAD1
0.148"	3/16"	0.020"	3303 psi @ 72°F	3ADD7	—
0.152"	1/4"	0.049"	6125 psi @ 72°F	3ADE1	3CAD8
0.180"	1/4"	0.035"	4375 psi @ 72°F	3ADD9	3CAD7
0.183"	3/16"	0.065"	6515 psi @ 72°F	3ADE7	3AFD5
0.194"	1/4"	0.028"	3570 psi @ 72°F	3ADD8	3CAD6
0.210"	1/4"	0.020"	2500 psi @ 72°F	3ADU9	3CAD5
0.215"	5/16"	0.049"	4912 psi @ 72°F	3ADE6	3AFD4
0.218"	1/4"	0.016"	2000 psi @ 72°F	3ADU8	—
0.230"	1/4"	0.010"	1250 psi @ 72°F	3ADU7	5LVP3
0.243"	5/16"	0.035"	3508 psi @ 72°F	3ADE5	3AFD3
0.245"	3/8"	0.065"	5452 psi @ 72°F	3ADF3	3ADN1
0.257"	5/16"	0.028"	2851 psi @ 72°F	3ADE4	3AFD2
0.273"	5/16"	0.020"	2005 psi @ 72°F	3ADE3	3AFD1
0.277"	3/8"	0.049"	4110 psi @ 72°F	3ADF2	3AFD9
0.305"	3/8"	0.035"	2936 psi @ 72°F	3ADF1	3AFD8
0.319"	3/8"	0.028"	2380 psi @ 72°F	3ADE9	3AFD7
0.335"	3/8"	0.020"	1678 psi @ 72°F	3ADE8	3AFD6
0.370"	1/2"	0.065"	4344 psi @ 72°F	3ADF8	3ADN6
0.402"	1/2"	0.049"	3275 psi @ 72°F	3ADF7	3ADN5
0.430"	1/2"	0.035"	2339 psi @ 72°F	3ADF6	3ADN4
0.444"	1/2"	0.028"	1785 psi @ 72°F	3ADF5	3ADN3
0.460"	1/2"	0.020"	1337 psi @ 72°F	3ADF4	3ADN2
0.495"	5/8"	0.065"	3482 psi @ 72°F	3ADG4	3ADP2
0.510"	3/4"	0.120"	5364 psi @ 72°F	5LVL6	—
0.527"	5/8"	0.049"	2625 psi @ 72°F	3ADG3	3ADP1
0.555"	5/8"	0.035"	1875 psi @ 72°F	3ADG2	3ADN9
0.569"	5/8"	0.028"	1428 psi @ 72°F	3ADG1	—
0.584"	3/4"	0.083"	3710 psi @ 72°F	5LVL7	—
0.585"	5/8"	0.020"	1071 psi @ 72°F	3ADF9	3ADN7
0.620"	3/4"	0.065"	2906 psi @ 72°F	3ADG7	3ADP5
0.635"	7/8"	0.120"	4602 psi @ 72°F	5LVL8	—
0.652"	3/4"	0.049"	2190 psi @ 72°F	3ADG6	3ADP4
0.680"	3/4"	0.035"	1565 psi @ 72°F	3ADG5	3ADP3
0.745"	7/8"	0.065"	2493 psi @ 72°F	5LVL9	5LVP4
0.777"	7/8"	0.049"	1879 psi @ 72°F	3ADG9	—
0.805"	7/8"	0.035"	1342 psi @ 72°F	3ADG8	3ADP6
0.834"	1"	0.083"	2787 psi @ 72°F	5LVN0	5LVP5
0.870"	1"	0.065"	2183 psi @ 72°F	3ADH3	3ADR1
0.902"	1"	0.049"	1646 psi @ 72°F	3ADH2	—
0.930"	1"	0.035"	1175 psi @ 72°F	3ADH1	3ADP8
1.010"	1 1/4"	0.120"	3227 psi @ 72°F	5LVN1	5LVP6
1.084"	1 1/4"	0.083"	2232 psi @ 72°F	5LVN2	—
1.120"	1 1/4"	0.065"	1748 psi @ 72°F	3ADH6	3ADR4
1.152"	1 1/4"	0.049"	1318 psi @ 72°F	3ADH5	—
1.180"	1 1/4"	0.035"	941 psi @ 72°F	3ADH4	3ADR2
1.245"	1 3/8"	0.065"	1591 psi @ 72°F	5LVN3	—
1.260"	1 1/2"	0.120"	2682 psi @ 72°F	—	5LVP7
1.277"	1 3/8"	0.049"	1199 psi @ 72°F	5LVN4	—
1.305"	1 3/8"	0.035"	857 psi @ 72°F	5LVN5	—
1.370"	1 1/2"	0.065"	1453 psi @ 72°F	3ADH9	3ADR7
1.402"	1 1/2"	0.049"	1095 psi @ 72°F	3ADH8	—
1.430"	1 1/2"	0.035"	782 psi @ 72°F	3ADH7	3ADR5
1.620"	1 3/4"	0.065"	1246 psi @ 72°F	3ADJ3	3CAE1
1.652"	1 3/4"	0.049"	940 psi @ 72°F	3ADJ2	3ADR9
1.680"	1 3/4"	0.035"	671 psi @ 72°F	3ADJ1	3ADR8
1.760"	2"	0.120"	2015 psi @ 72°F	5LVN7	—
1.870"	2"	0.065"	1091 psi @ 72°F	3ADJ6	3CAE4
1.902"	2"	0.049"	823 psi @ 72°F	3ADJ5	3CAE3
1.930"	2"	0.035"	588 psi @ 72°F	3ADJ4	—
Welded Coil Tubing - 50 ft. Lengths					
0.085"	1/8"	0.020"	3923 psi @ 72°F	3ADC6	3ADJ7
0.194"	1/4"	0.028"	3570 psi @ 72°F	3ADC8	3ADJ9
0.210"	1/4"	0.020"	2500 psi @ 72°F	3ADC7	3ADJ8
0.319"	3/8"	0.028"	2380 psi @ 72°F	3ADD1	3ADK2
0.335"	3/8"	0.020"	1678 psi @ 72°F	3ADC9	3ADK1
0.460"	1/2"	0.020"	1337 psi @ 72°F	3ADD2	3ADK3

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Seamless Tubing - 6 ft. Lengths					
0.027"	1/8"	0.049"	12014 psi @ 72°F	3ACR9	—
0.055"	1/8"	0.035"	8582 psi @ 72°F	3ACR8	—
0.069"	1/8"	0.028"	7140 psi @ 72°F	3ACR7	—
0.084"	1/4"	0.083"	10375 psi @ 72°F	3ACU1	5LVR0
0.085"	1/8"	0.020"	4904 psi @ 72°F	3ACR6	—
0.090"	3/16"	0.049"	8093 psi @ 72°F	3ACT4	—
0.093"	1/8"	0.016"	3923 psi @ 72°F	—	5LVP9
0.118"	3/16"	0.035"	5780 psi @ 72°F	3ACT3	—
0.118"	1/4"	0.020"	2500 psi @ 72°F	—	4NTL2
0.120"	1/4"	0.065"	8125 psi @ 72°F	3ACT9	5LVR1
0.125"	1/8"	0.020"	4904 psi @ 72°F	—	4NTK7
0.125"	1/8"	0.035"	8582 psi @ 72°F	—	4NTK8
0.132"	3/16"	0.028"	4747 psi @ 72°F	3ACT2	—
0.132"	3/16"	0.035"	5780 psi @ 72°F	—	4NTL1
0.147"	5/16"	0.083"	8320 psi @ 72°F	3ACU6	—
0.148"	3/16"	0.020"	3303 psi @ 72°F	—	3ACH3
0.148"	3/16"	0.020"	3393 psi @ 72°F	3ACT1	—
0.152"	1/4"	0.049"	6125 psi @ 72°F	3ACT8	5LVR2
0.152"	5/16"	0.035"	3508 psi @ 72°F	—	4NTL5
0.180"	1/4"	0.035"	4375 psi @ 72°F	3ACT7	3ACH4
0.183"	5/16"	0.065"	6515 psi @ 72°F	3ACU5	5LVR4
0.194"	1/4"	0.028"	3750 psi @ 72°F	3ACT6	—
0.209"	3/8"	0.083"	6962 psi @ 72°F	3ACV4	5LVR6
0.210"	1/4"	0.020"	2500 psi @ 72°F	3ACT5	—
0.210"	1/4"	0.028"	3750 psi @ 72°F	—	4NTL3
0.215"	5/16"	0.049"	4912 psi @ 72°F	3ACU4	—
0.218"	1/4"	0.016"	2000 psi @ 72°F	—	5LVR3
0.230"	1/4"	0.010"	1250 psi @ 72°F	5LVN8	—
0.243"	5/16"	0.035"	3508 psi @ 72°F	3ACU3	—
0.243"	3/8"	0.028"	2380 psi @ 72°F	—	4NTL6
0.245"	3/8"	0.065"	5452 psi @ 72°F	3ACV3	3ACH6
0.257"	5/16"	0.028"	2851 psi @ 72°F	3ACU2	5LVR5
0.260"	1/2"	0.120"	8020 psi @ 72°F	3ACW2	5LVT0
0.272"	5/16"	0.020"	2005 psi @ 72°F	5LVN9	—
0.273"	5/16"	0.020"	2005 psi @ 72°F	—	3ACH5
0.277"	3/8"	0.048"	4110 psi @ 72°F	3ACV2	—
0.277"	3/8"	0.049"	4110 psi @ 72°F	—	5LVR7
0.305"	3/8"	0.035"	2936 psi @ 72°F	3ACV1	5LVR8
0.310"	1/2"	0.095"	6349 psi @ 72°F	5LVP0	3ACH9
0.319"	3/8"	0.028"	2380 psi @ 72°F	3ACU9	—
0.334"	1/2"	0.083"	5547 psi @ 72°F	3ACW1	3ACH8
0.335"	3/8"	0.020"	1678 psi @ 72°F	3ACU8	5LVR9
0.355"	3/8"	0.010"	839 psi @ 72°F	3ACU7	—
0.370"	1/2"	0.065"	4344 psi @ 72°F	3ACV9	5LVT1
0.385"	5/8"	0.120"	6429 psi @ 72°F	3ACW9	5LVT4
0.402"	1/2"	0.049"	3275 psi @ 72°F	3ACV8	5LVT2
0.430"	1/2"	0.035"	2339 psi @ 72°F	3ACV7	3ACH7
0.444"	1/2"	0.028"	1785 psi @ 72°F	3ACV6	5LVT3
0.459"	5/8"	0.083"	4446 psi @ 72°F	3ACW8	5LVT5
0.460"	1/2"	0.020"	1337 psi @ 72°F	3ACV5	—
0.495"	5/8"	0.065"	3482 psi @ 72°F	3ACW7	—
0.510"	3/4"	0.120"	5364 psi @ 72°F	3ACX5	3ACJ1
0.527"	5/8"	0.049"	2625 psi @ 72°F	3ACW6	—
0.527"	5/8"	0.065"	3482 psi @ 72°F	—	4NTN4
0.555"	5/8"	0.035"	1875 psi @ 72°F	3ACW5	—
0.569"	5/8"	0.028"	1428 psi @ 72°F	3ACW4	—
0.584"	3/4"	0.083"	3710 psi @ 72°F	3ACX4	—
0.585"	5/8"	0.020"	1071 psi @ 72°F	3ACW3	—
0.620"	3/4"	0.065"	2906 psi @ 72°F	3ACX3	—
0.635"	7/8"	0.120"	4602 psi @ 72°F	3ACX9	3ACJ5
0.652"	3/4"	0.049"	2190 psi @ 72°F	3ACX2	—
0.667"	3/4"	0.083"	3710 psi @ 72°F	—	4NTN7
0.680"	3/4"	0.035"	1565 psi @ 72°F	3ACX1	5LVT6
0.745"	7/8"	0.065"	2493 psi @ 72°F	3ACX8	3ACJ4
0.750"	3/4"	0.065"	2906 psi @ 72°F	—	4NTN6
0.760"	1"	0.120"	4030 psi @ 72°F	3ACY5	3ACK1
0.777"	7/8"	0.049"	1879 psi @ 72°F	3ACX7	3ACJ3
0.805"	7/8"	0.035"	1342 psi @ 72°F	3ACX6	3ACJ2
0.834"	1"	0.083"	2787 psi @ 72°F	3ACY4	3ACJ9
0.870"	1"	0.065"	2183 psi @ 72°F	3ACY3	3ACJ8
0.902"	1"	0.049"	1646 psi @ 72°F	3ACY2	—
0.930"	1"	0.035"	1175 psi @ 72°F	3ACY1	3ACJ6
1.010"	1 1/4"	0.120"	3227 psi @ 72°F	3ACZ1	3ACK7
1.084"	1 1/4"	0.083"	2232 psi @ 72°F	3ACY9	3ACK6
1.120"	1 1/4"	0.065"	1748 psi @ 72°F	3ACY8	3ACK5
1.152"	1 1/4"	0.049"	1318 psi @ 72°F	—	3ACK4
1.180"	1 1/4"	0.035"	941 psi @ 72°F	—	3ACK3
1.194"	1 1/4"	0.028"	714 psi @ 72°F	5LVP1	—
1.260"	1 1/2"	0.120"	2682 psi @ 72°F	3ACZ8	3ACL4
1.277"	1 3/8"	0.049"	1199 psi @ 72°F	—	5LVT7
1.310"	1 1/2"	0.095"	2123 psi @ 72°F	—	3ACL3
1.370"	1 1/2"	0.065"	1453 psi @ 72°F	3ACZ6	3ACL2
1.402"	1 1/2"	0.049"	1095 psi @ 72°F	3ACZ5	—
1.430"	1 1/2"	0.035"	782 psi @ 72°F	5LVP2	—
1.620"	1 3/4"	0.065"	1246 psi @ 72°F	3CAC1	3ACL6
1.652"	1 3/4"	0.049"	940 psi @ 72°F	—	3ACL5
1.680"	1 3/4"	0.035"	671 psi @ 72°F	3ACZ9	—
1.760"	2"	0.120"	2015 psi @ 72°F	3CAC5	3ACL9
1.870"	2"	0.065"	1091 psi @ 72°F	3CAC4	3ACL8
1.902"	2"	0.049"	823 psi @ 72°F	3CAC3	—
1.930"	2"	0.035"	588 psi @ 72°F	3CAC2	—

Aluminum and 316 Stainless Steel Instrumentation Tubing

GA GRAINGER APPROVED

- Seamless construction

Aluminum—Features very good corrosion resistance and finishability, as well as excellent weldability. Strength approximates that of mild steel. Can be fabricated by most common techniques. Meets ASTM B210 and WW-T-700/6.
- Temp. range: -452° to 400°F
- Length: 6 ft.

316 Stainless Steel—Can be used with Hamlet, Swagelok®, and Parker A-Lok® metric fittings, with water, air, natural gas, oil, and hydraulic fluid. Sterilize with steam. Use with metric instrumentation fittings, sold on page 2858. Meets ASTM A269, except Nos. 4NTK1 to 4NTK6 meet DIN EN10216-5.
- Temp. range: -325° to 1500°F
- Length: 2m

Aluminum				316 Stainless Steel			
Outside Dia.	Wall Thickness	Max. Pressure	Item No.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
3/16"	0.049"	4774 psi	4NTC6	6mm	1.00mm	5100 psi	4NTJ6
1/4"	0.035"	580 psi	4NRZ9	6mm	1.00mm	4713 psi	4NTK1
3/8"	0.049"	2431 psi	4NTD5	8mm	1.00mm	3545 psi	4NTK2
1/2"	0.065"	2428 psi	4NTD9	8mm	1.50mm	5800 psi	4NTJ7
5/8"	0.065"	440 psi	4NRY9	10mm	1.50mm	4621 psi	4NTK3
3/4"	0.049"	1222 psi	4NTE4	10mm	2.00mm	6300 psi	4NTJ8
7/8"	0.049"	1049 psi	4NTE8	12mm	2.00mm	5200 psi	4NTJ9
1"	0.125"	2344 psi	4NTF4	12mm	2.00mm	5415 psi	4NTK4
1 1/4"	0.065"	975 psi	4NTF7	16mm	2.00mm	4065 psi	4NTK5
1 1/2"	0.035"	438 psi	4NTF8	20mm	2.00mm	3258 psi	4NTK6


Aluminum
No. 4NTC6

Dubl-Barb® Brass Barbed Fittings

Parker

- Max. working pressure: 150 psi (5/32" to 3/8"); 100 psi (1/2")
- Temp. range: -65° to 90°F (5/32" to 3/8"); -65° to 75°F (1/2")

Compact, 1-pc. push-on barbed fittings don't require any type of clamp. Use to quickly connect polyethylene tubing for use in environmental pneumatic controls and other low-pressure applications with water and air.



Tube Size	90° Elbow Item No.	Union Item No.	Union Tee* Item No.	Bulkhead Union Item No.	Bulkhead Union, Compress-Align Item No.	Union, Compress-Align Item No.	Tee* Item No.	Adapter Tee Item No.	Solder Connector Item No.	Plug Item No.
Barbed Fittings										
5/32"	2GUG8	2GUG5	2GUF4	—	—	—	—	—	—	—
1/4"	2GUG6	2GUF1	2GUF2	2GUJ6	2GUJ9	2GUJ8	2GUL2	2GUE9	2GUL6	2GUE5
3/8"	2GUG9	2GUH2	—	2GUJ7	2GUK1	—	—	—	—	2GUE7
3/8" x 3/8"	—	—	2GUF6	—	—	—	—	—	—	—
1/2"	2GUH1	2GUH4	2GUG1	—	—	—	—	—	—	2GUE8



Tube Outside Dia.	Pipe Size - Pipe Fitting	90° Female Elbow Item No.	90° Male Elbow Item No.	Female Branch Tee* Item No.	Female Connector Item No.	Male Branch Tee* Item No.	Male Connector Item No.	Male Run Tee* Item No.
Barbed Fittings								
1/8"	—	—	—	—	—	—	2GUP2 †	—
5/32"	1/8"	—	2GUJ1	2GUL5	2GUL8	—	2GUP9	—
1/4"	—	—	—	—	—	—	2GUP3 †	—
1/4"	—	—	—	—	—	—	2GUP5 †	—
1/4"	1/16"	—	2GUH6	—	—	2GUK7	2GUP4	—
1/4"	1/8"	2GUK2	2GUH7	2GUL4	2GUL7	2GUK8	2GUP6	2GUK4
1/4"	1/4"	—	2GUH8	—	—	—	2GUP7	—
3/8"	1/8"	—	2GUJ2	—	2GUL9	2GUK9	2GUR1	2GUK5
3/8"	1/4"	2GUK3	2GUJ3	—	2GUP1	2GUL1	2GUR2	2GUK6
1/2"	1/4"	—	2GUJ4	—	—	—	2GUR3	—
1/2"	3/8"	—	2GUJ5	—	—	—	2GUR4	—
1/2"	1/2"	—	—	—	—	—	2GUR5	—

** Tees read run x run x outlet. † For vinyl tubing only.*

Tube Outside Dia.	Reducing Plug Adapter Item No.	Union Reducer Item No.
Reducing Barbed Fittings		
1/4" and 5/32"	2GUE6	—
1/4" x 5/32"	—	2GUF5
1/4" x 3/8"	—	2GUF7
1/4" x 1/2"	—	2GUG2
3/8" x 1/2"	—	2GUH3

White Acetal Push-Button Tube Couplings

CPC

- Max. pressure: 120 psi
- Temp. range: -40° to 180°F

Chemical-resistant fittings let you connect and disconnect by hand. Couplers have built-in shutoff valves. Use for engine system, biohazard detection, printing and ink, and cleanroom/sterilization, as well as in food/beverage and chemical applications. Meet USDA, NSF, and RoHS compliant.

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Inline Couplers					
Straight-Through Inline Coupler					
	Barbed	1/8"	1/8"	PMC	2YDG9
		3/16"	3/16"	PMC	2YDH1
		1/4"	1/4"	PLC	2YCZ9
		1/4"	1/4"	PMC	2YDH2
		3/8"	3/8"	PLC	2YDA2
	MNPT	1/4"	—	PLC	2YCZ1
		1/4"	—	PMC	2YDG1
		3/8"	—	PLC	2YCZ2
	Tube	1/4"	11/64"	PMC	2YDG3
		3/8"	1/4"	PLC	2YCZ5
Shut-Off Inline Coupler					
	Barbed	1/8"	1/8"	PMC	2YDL1
		3/16"	3/16"	PMC	2YDL2
		1/4"	1/4"	PLC	2YDD9
		1/4"	1/4"	PMC	2YDL3
		5/16"	5/16"	PLC	2YDE1
		3/8"	3/8"	PLC	2YDE2
	MNPT	1/8"	—	PMC	2YDK1
		1/4"	—	PLC	2YDC9
		1/4"	—	PMC	2YDK2
		3/8"	—	PLC	2YDD1

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Inline Inserts					
Straight-Through Inline Insert					
	Barbed	1/8"	1/8"	PMC	2YDH7
		1/4"	1/4"	PLC	2YDA6
		1/4"	1/4"	PMC	2YDH9
		3/8"	3/8"	PLC	2YDA8
	MNPT	1/8"	—	PMC	2YDJ3
		1/4"	—	PLC	2YDC2
		1/4"	—	PMC	2YDJ4
		3/8"	—	PLC	2YDC3
Shut-Off Inline Insert					
	Barbed	1/8"	1/8"	PMC	2YDL8
		3/16"	3/16"	PMC	2YDL9
		1/4"	1/4"	PLC	2YDE6
		1/4"	1/4"	PMC	2YDN1
		5/16"	5/16"	PLC	2YDE7
		3/8"	3/8"	PLC	2YDE8
	MNPT	1/8"	—	PMC	2YDN4
		1/4"	—	PLC	2YDF2
		1/4"	—	PMC	2YDN5
		3/8"	—	PLC	2YDF3
	Tube	1/4"	11/64"	PLC	2YDE3
		1/4"	11/64"	PMC	2YDL4
		1/4"	1/4"	PLC	2YDE4

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Panel Mount Couplers					
Shut-Off Coupling					
	Barbed	1/4"	1/4"	PLC	2YDD6
		5/16"	5/16"	PLC	2YDD7
		3/8"	3/8"	PLC	2YDD8
	Tube	1/4"	11/64"	PMC	2YDK3

Super Speedfit®

Gray Acetal Push-In Fittings

- Max. pressure: 150 psi
- Temp. range: -14° to 167°F (air); 33° to 140°F (water)

For use with PVC, polyethylene, nylon, polyurethane, brass, copper, and mild steel tubing. Fittings have nitrile O-ring seal, stainless steel teeth, and can be used for potable water, food, chemical, pneumatic, reverse osmosis, plumbing, and fiber optic applications. FDA and NSF Approved.

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.	Pkg. Qty.
Adapter, Tube x Male BSPT				
	¼"	⅛"	1WRR8	10
		¼"	1WRR9	10
	⅜"	¼"	1WRT2	10
		⅜"	1WRT3	10
	½"	⅜"	1WRT4	10
		½"	1WRT5	10
Adapter, Tube x MNPT				
	5/32"	⅛"	1HLG9	10
	¼"	⅜"	1WRR1	10
	5/16"	⅛"	1WRR2	10
		¼"	1WRR3	10
	⅜"	⅛"	1WRR4	10
		½"	1WRR5	10
	⅝"	¾"	1WRR6	10
Female Adapter, Tube x FNPT				
	¼"	¼"	3ZLG1	10
	⅜"	¼"	3ZLG2	10

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.	Pkg. Qty.
Fixed Elbow, 90°, Tube x MNPT				
	¼"	⅛"	4HN25	10
		¼"	4HN26	10
		⅜"	4HN27	10
	⅜"	¼"	4HN28	10
		⅜"	4HN29	10
Male Adapter, Tube x MNPT				
	¼"	⅛"	4HN10	10
		¼"	4HN11	10
	⅜"	¼"	4HN12	10
		⅜"	4HN13	10
	½"	⅜"	4HN14	10
		½"	4HN15	10
Swivel Branch Tee, Tube x MNPT				
	¼"	¼"	1WTA2	10
	⅜"	¼"	1WTA4	10
Swivel Elbow, 90°, Tube x Male BSPT				
	¼"	¼"	1WRZ1	10
	⅜"	¼"	1WRZ4	10
Swivel Elbow, 90°, Tube x MNPT				
	¼"	⅛"	1WRY1	10
		¼"	1WRY2	10
	⅜"	⅛"	1WRY4	10
		¼"	1WRY5	10
		⅜"	1WRY6	10
		⅜"	1WTP8	10
	½"	⅜"	1WRY7	10
		½"	1WRY8	10

Description	Tube Size	Item No.	Pkg. Qty.
Bulkhead Union, Tube			
	¼"	1WTB9	10
	⅜"	1WTC2	10
	½"	1WTC3	10
Divider, 2-Way, Tube			
	5/16"	1WTD9	10
	¼"	1WTD8	10
	⅜"	1WTE1	10
	½"	1WTE2	10

Description	Tube Size	Item No.	Pkg. Qty.
End Stop, Tube			
	¼"	3ZLG3	10
	⅜"	3ZLG4	10
Reducer Union, Tube			
	5/16" x ¼"	1WTC6	10
	⅜" x ¼"	1WTC8	10
	½" x ⅜"	1WTD1	10
Reducing Elbow, 90°, Tube			
	5/16" x ¼"	3ZLF4	10
	⅜" x ¼"	3ZLF6	10
Reducing Tee (run x run x outlet), Tube			
	⅜" x ⅜" x ¼"	3ZLE9	10
	½" x ½" x ⅜"	3ZLF1	10
Union Adapter, Tube			
	3/32"	1WRU3	10
	3/16"	1WRU4	10
	5/16"	1WRU5	10
	¼"	4HN22	10
	⅜"	4HN23	10
	½"	4HN24	10
Union Elbow, 90°, Tube			
	¼"	4HN19	10
	5/16"	1WRU2	10
	⅜"	4HN20	10
	½"	4HN21	10
Union Tee, Tube			
	5/16"	3ZLD1	10
	¼"	4HN16	10
	⅜"	4HN17	10
	½"	4HN18	10

Description	Stem OD	Tube Size	Item No.	Pkg. Qty.
Tube to Hose Adapter, Stem x Barb				
	¼"	¼"	1WTE4	10
	⅜"	¼"	1WTE6	10
		⅜"	1WTE7	10
Reducer, Tube				
	⅜"	¼"	1WRW7	10
	½"	⅜"	1WRW9	10
Plug-In Elbow, 90°, Tube				
	¼"	—	1WTD4	10
	⅜"	⅜"	1WTD6	10
	½"	½"	1WTD7	10
Plug, Tube				
	¼"	¼"	1WRX3	10
	⅜"	⅜"	1WRX5	10
	½"	½"	1WRX6	10

Description	Size	Item No.	Pkg. Qty.
Check Valve, Push			
	¼"	2JFY8	1
	5/16"	2JFY9	1
	⅜"	1WTG1	1

Description	Inlet/ Outlet Size	Includes	Item No.	Pkg. Qty.
Multi-Turn Supply Stop, Push				
	⅜"	Short Handle	3ZLG8	1
	⅜"	Long Handle	3ZLG9	1
	½"	Long Handle	3ZLH1	1

Polypropylene Push-In Fittings

Super Speedfit®

- Max. pressure: 150 psi
- Temp. range: 9° to 150°F

EDPM seal and stainless steel teeth provide reliable retention. Just push on to connect. Use with LDPE, HDPE, and polypropylene tubing in potable water, food, cleaning, water purification, car wash, and fiber optic applications. FDA Approved.

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.	Pkg. Qty.
Elbow, 90°, Tube x MNPT				
	¼"	⅛"	1WTU5	10
	¼"	¼"	1WTU6	10
	¼"	⅜"	1WTU7	10
	⅜"	¼"	1WTU8	10
	⅜"	⅜"	1WTU9	10
Faucet Adapter, Tube				
	¼"	7/16"	1WTU4	10
	⅜"	7/16"	1WTU3	10
Male Adapter, Tube x MNPT				
	¼"	⅛"	1WTJ9	10
	¼"	¼"	1WTK1	10
	¼"	⅜"	1WTK2	10
	⅜"	¼"	1WTK3	10
	⅜"	⅜"	1WTK4	10
	⅜"	½"	1WTK5	10
	½"	⅜"	1WTK6	10
	½"	½"	1WTK7	10

Description	Tube Size	Item No.	Pkg. Qty.
Union Adapter, Tube			
	¼"	1WTL7	10
	5/16"	1WTL8	10
	⅜"	1WTL9	10
	½"	1WTN1	10
Reducing Union, Tube			
	½" x ⅜"	1WTT2	10
Bulkhead Adapter, Tube			
	¼"	1WTR8	10
	⅜"	1WTR9	10
	½"	1WTT1	10

Description	Tube Size	Item No.	Pkg. Qty.
Union Elbow, 90°, Tube			
	¼"	1WTL3	10
	5/16"	1WTL4	10
	⅜"	1WTL5	10
	½"	1WTL6	10

Description	Tube Size	Item No.	Pkg. Qty.
Union Tee, Tube			
	¼"	1WTK8	10
	5/16"	1WTK9	10
	⅜"	1WTL1	10
	½"	1WTL2	10

Description	Inlet Size	Outlet Size	Inlet Type	Outlet Type	Item No.	Pkg. Qty.
Quarter-Turn Supply Stops						
	¼"	¼"	MNPT	Push to Connect	4HN33	5
	⅜"	⅜"	Push	MNPT	4HN34	5
	¼"	¼"	Push	Push to Connect	4HN35	5
	⅜"	⅜"	Push	Push to Connect	4HN36	5

Description	Stem OD	Tube Size	Item No.	Pkg. Qty.
Reducer, Tube				
	⅜"	¼"	1WTN8	10
	—	½" x ⅜"	1WTN9	10

Nickel-Plated Brass Push-To-Connect Fittings and Chrome-Plated Mini-Ball Valves

GA GRAINGER APPROVED

- Max. pressure: 250 psi
- Temp. range: 0° to 160°F

Designed for use on all pneumatic circuits and feature a quick connect/disconnect positive seal. Push-in design requires no special tools. For use with nylon, polyethylene, and polyurethane tubing and suitable for use in air, water, and oil applications.

MINI-BALL VALVES

Reduced port valves feature nitrile rubber seals, PTFE seats, and brass stem.



Tube Size	Pipe Size - Pipe Fitting	Male Adapter, Tube x MNPT Item No.	Male Elbow, 90°, Tube x MNPT Item No.	Tee, Tube Item No.
⅛"	⅛"	22FR76	22FR84	—
¼"	—	—	—	22FR64
¼"	⅛"	22FR77	22FR85	—
¼"	¼"	22FR78	22FR86	—
⅜"	—	—	—	22FR65
⅜"	⅛"	22FR80	—	—
⅜"	¼"	22FR81	22FR88	—
⅜"	⅜"	22FR82	22FR89	—
½"	½"	22FR83	22FR90	—



Pipe Size	Tube Size	Ball Valve, FNPT x MNPT Item No.	Mini-Ball Valve, FNPT x MNPT Item No.
¼"	—	22FT07	—
⅜"	⅜"	—	22FT08
½"	½"	—	22FT09



Tube Size	Bulkhead Union, Tube Item No.
¼"	22FR67
½"	22FR69

Prestolok™ Nickel-Plated Brass Push-To-Connect Fittings

- Max. operating pressure: 300 psi
- Max. operating temp.: 0° to 200°F (depending on tubing used)
- Pkg. qty.: 10

Compact, 1-pc., nickel-plated brass fittings are designed for low-pressure circuits, easy to assemble, and for use with polyethylene, nylon, or polyurethane tubing. Support ferrules or I.D. tube supports only required for thin-walled poly tubing. Vacuum applications depend on temperature and tubing type.








Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow w/ Sealant, Tube x MNPT Item No.	90° Swivel Male Elbow w/Sealant, Tube x MNPT Item No.	Swivel Male Run Tee w/ Sealant, Tube x MNPT Item No.	Swivel Branch Tee w/Sealant, Tube x MNPT Item No.	Male Connector w/Sealant, Tube x MNPT Item No.	Male Connector, Tube x BSPP Item No.
⅛"	1⁄16"	—	—	—	—	1AJV1	—
⅛"	⅛"	1AJW3	1AJN5	1AJX1	1AJT6	1AJY2	—
⅛"	¼"	—	1AJN4	—	—	1AJV2	—
5⁄32"	⅛"	1AJW6	1AJP3	1AJT1	1AJX7	1AAE6	—
5⁄32"	¼"	1AJW7	1AJP4	—	—	1AAE7	—
3⁄16"	⅛"	—	1AJN6	—	1AJX4	1AJV3	—
3⁄16"	¼"	—	—	—	—	1AJV4	—
¼"	1⁄16"	—	—	—	—	1AJV5	—
¼"	⅛"	1AJW4	1AJN7	1AJR8	1AJX5	1AJY3	1AJH3
¼"	¼"	1AJW5	1AJP1	1AJR9	1AJX6	1AAE4	1AJH2
¼"	⅜"	—	1AJP2	—	—	1AAE5	1AJJ5
5⁄16"	⅛"	1AJR3	1AJN8	1AJT2	1AJT7	1AJV6	—
5⁄16"	¼"	1AJR4	1AJN9	1AJT3	1AJT8	1AJV7	—
5⁄16"	⅜"	—	—	—	—	1AJV8	—
⅜"	⅛"	—	1AJP5	—	—	1AAE8	—
⅜"	¼"	1AJW8	1AJP6	1AJT4	1AJX8	1AAE9	1AJJ7
⅜"	⅜"	1AJW9	1AJP7	1AJT5	1AJX9	1AAF1	1AJJ8
⅜"	½"	1AJR5	1AJP8	—	—	1AAF2	1AJJ6
½"	¼"	—	1AJP9	—	—	1AJV9	—
½"	⅜"	1AJR6	1AJR1	1AJX2	1AJT9	1AJW1	1AJK1
½"	½"	1AJR7	1AJR2	—	1AJY1	1AJW2	1AJJ9




Tube Size	Pipe Size - Pipe Fitting	90° Swivel Male Elbow, Tube x UNF Item No.	Male Connector, Tube x UNF Item No.
⅛"	10/32"	1AJG7	1AJN1
5⁄32"	10/32"	1AJG8	1AJN3
¼"	10/32"	1AJG4	1AJN2

WARNING: For use only with air, water, oil, and nonreactive gases. Do not use where accidental separation of tube and fitting could cause injury. Not recommended for continuous-pressure cycling applications.






Tube Size	90° Union Elbow, Tube Item No.	Union Tee, Tube Item No.	Union, Tube Item No.	Bulkhead Union, Tube Item No.
⅛"	1AJF9	1AAD7	1AJK2	1AJK9
5⁄32"	1AJG3	1AAE1	1AJK6	1AJL3
3⁄16"	—	1AAD8	1AJK3	—
¼"	1AJG1	1AAD9	1AJK4	1AJL1
5⁄16"	1AJG2	1AAE2	1AJK5	1AJL2
⅜"	1AJG5	1AAE3	1AJK7	1AJL4
½"	1AJG6	1AJF8	1AJK8	1AJL5




Tube Size	Pipe Size - Pipe Fitting	Female Adapter, Tube x FNPT Item No.	Bulkhead Female Connector, Tube x FNPT Item No.
⅛"	⅛"	1AJL6	—
5⁄32"	⅛"	1AJH7	—
5⁄32"	¼"	1AJH8	1AJL7
3⁄16"	⅛"	1AJH4	—
¼"	⅛"	1AJH5	—
¼"	¼"	1AJH6	1AJJ4
5⁄16"	⅛"	1AJH9	—
5⁄16"	¼"	1AJJ1	—
⅜"	¼"	1AJJ2	—
⅜"	⅜"	1AJJ3	1AJL8
½"	⅜"	—	1AJL9

316 Stainless Steel Push-To-Connect Fittings

- Max. pressure: 435 psi
- Temp. range: 23° to 302°F

For use in washdown or caustic environments that require 316 stainless steel. FKM seals. Compatible with FEP, PFA, nylon, soft nylon, polyurethane, and polyolefin tubing. Grease-free fittings. RoHS compliant.

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Tube x MNPT			
Male Adapter			
	5⁄32"	⅛"	19F709
	¼"	10/32"	19F717
	¼"	⅛"	19F718
	¼"	¼"	19F719
	5⁄16"	⅛"	19F724
	5⁄16"	¼"	19F725
	⅜"	¼"	19F729
	⅜"	⅜"	19F730
	½"	¼"	19F735
	½"	⅜"	19F736
	½"	½"	19F737
Male Branch Tee			
	5⁄32"	⅛"	19F768
	¼"	⅛"	19F770
	¼"	¼"	19F771
	5⁄16"	⅛"	19F773
	5⁄16"	¼"	19F774
	⅜"	⅛"	19F776
	⅜"	¼"	19F777
	⅜"	⅜"	19F778
	½"	½"	19F780
Male Elbow, 90°			
	5⁄32"	⅛"	19F739
	5⁄32"	¼"	19F740
	¼"	10/32"	19F747
	¼"	⅛"	19F748
	¼"	¼"	19F749
	¼"	⅜"	19F750
	5⁄16"	⅛"	19F755
	5⁄16"	¼"	19F756
	5⁄16"	⅜"	19F757
	⅜"	⅛"	19F761
	⅜"	¼"	19F762
	⅜"	⅜"	19F763
	⅜"	½"	19F764
	½"	¼"	19F766
	½"	½"	19F767

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Tube x R(PT)			
Male Adapter			
	5⁄32"	M5 x 5⁄64"	19F711
	5⁄16"	⅛"	19F721
	5⁄16"	¼"	19F722
	5⁄16"	⅜"	19F723
	6mm	⅛"	19F713
	6mm	M5 x 5⁄64"	19F715
	6mm	¼"	19F714
	10mm	¼"	19F727
	12mm	⅜"	19F732
	12mm	½"	19F733
Male Elbow, 90°			
	5⁄32"	M5 x 5⁄64"	19F742
	¼"	⅛"	19F743
	¼"	¼"	19F744
	¼"	M5 x 5⁄64"	19F745
	5⁄16"	⅛"	19F752
	5⁄16"	¼"	19F753
	5⁄16"	⅜"	19F754
	13⁄32"	¼"	19F758
	13⁄32"	⅜"	19F759

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Tube x Tube			
Bulkhead Union			
	5⁄32"	—	19F704
	¼"	—	19F706
	⅜"	—	19F707
	6mm	—	19F705
Straight Union			
	5⁄32"	—	19F710
	¼"	—	19F712
	¼"	—	19F716
	5⁄16"	5⁄32"	19F720
	⅜"	—	19F728
	½"	—	19F734
	10mm	—	19F726
	12mm	—	19F731
Union Elbow, 90°			
	5⁄32"	—	19F741
	¼"	—	19F746
	5⁄16"	—	19F751
	⅜"	—	19F760
	½"	—	19F765
Union Tee			
	¼"	—	19F769
	5⁄16"	—	19F772
	⅜"	—	19F775
	½"	—	19F779
Tube x UNF			
Male Adapter			
	5⁄32"	10/32"	19F708
Male Elbow, 90°			
	5⁄32"	10/32"	19F738

Chrome-Plated Brass Mini-Ball Valves

- Max. pressure: 290 psi
- Temp. range: 0° to 175°F
- Vacuum: 0 to 20 bar
- PTFE ball seat

Suitable for use with air, oil, nonpotable water, and inert gas.




Pipe Size	3-Way FNPT x FNPT x FNPT Features	Item No.	Angle FNPT x FNPT Features	Item No.
⅛"	Closed Center	1ZPK4	¼ Turn Shut-Off	1ZPJ4
⅛"	Open Center	1ZPK7	—	—
¼"	Closed Center	1ZPK5	¼ Turn Shut-Off	1ZPJ5
¼"	Open Center	1ZPK8	—	—
⅜"	Closed Center	1ZPK6	¼ Turn Shut-Off	1ZPJ6
⅜"	Open Center	1ZPK9	—	—




Tube Size	Features	Inline MNPT x Push Item No.	Inline Push x Push Item No.
⅛"	¼ Turn Shut-Off	—	1ZPK1
¼"	¼ Turn Shut-Off	1ZPJ7	1ZPK2
¼"	¼ Turn Shut-Off	1ZPJ8	—
⅜"	¼ Turn Shut-Off	1ZPJ9	1ZPK3

Silicone-Free Nickel-Plated Brass Push-To-Connect Fittings

legris

- Max. working pressure: 7 to 435 psi
- Working temp. range: -4° to 302°F
- FKM O-ring

Fittings are easy to install, connect, and disconnect. The high phosphorus chemical nickel plating resists abrasion, chemicals, and corrosion. Fittings are ideal for aggressive environments such as in welding applications where fittings must remain intact even if hit by weld spatter. FDA approved for use in food processing applications.



Tube Size	Pipe Size - Pipe Fitting	Female Connector, Tube x BSPP Item No.
¼"	⅛"	18E470
¼"	¼"	18E471
5/16"	⅛"	18E472
5/16"	¼"	18E473



Tube Size	Pipe Size - Pipe Fitting	Male Branch Tee, Tube x BSPT Item No.	Male Branch Tee, Tube x Male BSPT Item No.
¼"	⅛"	—	3ZNP3
¼"	¼"	—	3ZNP4
5/16"	⅛"	18E499	—
5/16"	¼"	—	3ZNP5
13/32"	¼"	—	3ZNP6



Tube Size	Pipe Size - Pipe Fitting	90° Swivel Male Elbow, Tube x MNPT Item No.	Male Connector, Tube x MNPT Item No.
5/32"	⅛"	3ZNT1	3ZNU9
5/32"	¼"	3ZNT2	3ZNV1
¼"	⅛"	3ZNT3	3ZNV2
¼"	¼"	3ZNT4	3ZNV3
⅜"	¼"	3ZNT5	3ZNV4
⅜"	⅜"	3ZNT6	3ZNV5
½"	⅜"	3ZNT7	3ZNV6
½"	½"	3ZNT8	3ZNV7



Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow, Tube x BSPP Item No.	90° Male Swivel Elbow, Tube x BSPT Item No.
5/32"	⅛"	18E485	3ZNR4
5/32"	¼"	18E486	3ZNR5
5/32"	M5	18E487	—
5/32"	10/32"	18E488	—
5/32"	M6	18E489	—
¼"	⅛"	18E490	—
¼"	¼"	18E491	—
¼"	M10	18E492	—
5/16"	⅛"	18E493	—
5/16"	¼"	18E494	—
5/16"	⅜"	18E495	—
13/32"	¼"	18E496	—
13/32"	⅜"	18E497	18E481
15/32"	¼"	18E498	—
6mm	⅛"	—	3ZNR6
6mm	¼"	—	3ZNR7
8mm	¼"	—	3ZNR8
8mm	⅛"	—	18E479
8mm	⅜"	—	18E480
10mm	¼"	—	3ZNR9
12mm	¼"	—	18E482
12mm	⅜"	—	18E483
12mm	½"	—	18E484



Tube Size	90° Union Elbow, Tube x Tube Item No.	Union Tee, Tube x Tube Item No.	Union, Tube x Tube Item No.	Straight Union, Tube x Tube Item No.
5/32"	—	3ZNL5	3ZNN3	—
¼"	3ZNK8	3ZNL6	3ZNN4	—
¼"	3ZNL2	3ZNL9	3ZNN8	—
5/16"	3ZNK9	3ZNL7	3ZNN5	—
⅜"	3ZNL3	3ZNN1	—	—
13/32"	—	3ZNL8	3ZNN6	—
15/32"	18E501	18E502	—	18E503
½"	3ZNL4	3ZNN2	3ZNP1	—



Tube Size	Bulkhead Union, Tube x Tube Item No.	Plug-In Adapter, Tube x Tube Item No.	Adapter, Tube x Tube Item No.
5/32"	18E474	—	—
¼"	18E475	—	—
¼" x ¼" Adaptor	—	3ZNT9	—
¼" x 8mm Adaptor	—	—	18E504
5/16"	18E476	—	—
5/16" x 10mm Adaptor	—	—	18E505
13/32"	18E477	—	—



Tube Size	Pipe Size - Pipe Fitting	Male Connector, Tube x BSPP Item No.	Male Connector, Tube x BSPT Item No.
5/32"	⅛"	18E451	3ZNU3
5/32"	¼"	18E452	3ZNU4
5/32"	M5	18E453	—
5/32"	10/32"	18E454	—
5/32"	M6	18E455	—
5/32"	M8	18E456	—
¼"	⅛"	18E457	3ZNU5
¼"	¼"	18E458	3ZNU6
¼"	M5	18E459	—
¼"	M10	18E460	—
5/16"	⅛"	18E461	18E442
5/16"	¼"	18E462	3ZNU7
5/16"	⅜"	18E463	18E443
13/32"	¼"	18E464	3ZNU8
13/32"	⅜"	18E465	18E444
13/32"	½"	18E466	18E445

Metal Manifolds

PNEUMADYNE



No. 2KGZ2



No. 2KGZ9

- Max. pressure: 1000 psi, except stainless steel are 3500 psi
- Temp. range: -10° to 200°F, except stainless steel are -100° to 500°F
- Mounting hole: Nos. 49AV63 to 49AV90 are 0.26", stainless steel are 0.20"

Simple tube run design and layout reduces clutter, eases troubleshooting, and provides the basis for orderly tube runs. FNPT connections. Models with 90° port orientation allow manifolds to be configured and mounted in difficult applications. All are for use with air, water, and hydraulic oils, except black anodized aluminum are also for use with natural gas and gasoline.

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Mounting Hole Size	Black Anodized Aluminum Item No.	Black Anodized Aluminum w/90° Ports Item No.
2	¼"	⅛"	1¾"	1"	1"	0.17"	2KGZ2	2KHA1
	⅜"	¼"	2⅛"	1¼"	1¼"	0.20"	2KHA7	2KHC6
	½"	⅜"	2¾"	1½"	1½"	0.20"	2KHD4	2KHE3
	¾"	⅜"	4⅜"	1½"	1½"	0.20"	2KHH2	—
3	¼"	⅛"	2½"	1"	1"	0.17"	2KGZ3	2KHA2
	⅜"	¼"	3"	1¼"	1¼"	0.20"	2KHA8	2KHC7
	½"	⅜"	3¾"	1½"	1½"	0.20"	2KHD5	2KHE4
	¾"	⅜"	5¾"	1½"	1½"	0.20"	2KHH3	—
4	¼"	⅛"	3¼"	1"	1"	0.17"	2KGZ4	2KHA3
	⅜"	¼"	3⅞"	1¼"	1¼"	0.20"	2KHA9	2KHC8
	½"	⅜"	4¾"	1½"	1½"	0.20"	2KHD6	2KHE5
	¾"	⅜"	6⅞"	1½"	1½"	0.20"	2KHH4	—
5	¼"	⅛"	4"	1"	1"	0.17"	2KGZ5	2KHA4
	⅜"	¼"	4¾"	1¼"	1¼"	0.20"	2KHC1	2KHC9
	½"	⅜"	5¾"	1½"	1½"	0.20"	2KHD7	2KHE6
	¾"	⅜"	8"	1½"	1½"	0.20"	2KHH5	—
6	¼"	⅛"	4¾"	1"	1"	0.17"	2KGZ6	2KHA5
	⅜"	¼"	5⅝"	1¼"	1¼"	0.20"	2KHC2	2KHD1
	½"	⅜"	6¾"	1½"	1½"	0.20"	2KHD8	2KHE7
	¾"	⅜"	9⅛"	1½"	1½"	0.20"	2KHH6	—
7	¼"	⅛"	5½"	1"	1"	0.17"	2KGZ7	—
	⅜"	¼"	6½"	1¼"	1¼"	0.20"	2KHC3	—
	½"	⅜"	7¾"	1½"	1½"	0.20"	2KHD9	—
8	¼"	⅛"	6¼"	1"	1"	0.17"	2KGZ8	2KHA6
	⅜"	¼"	7⅜"	1¼"	1¼"	0.20"	2KHC4	2KHD2
	½"	⅜"	8¾"	1½"	1½"	0.20"	2KHE1	2KHE8
	¾"	⅜"	11⅜"	1½"	1½"	0.20"	2KHH7	—
10	¼"	⅛"	7¾"	1"	1"	0.17"	2KGZ9	—
	⅜"	¼"	9⅛"	1¼"	1¼"	0.20"	2KHC5	2KHD3
	½"	⅜"	10¾"	1½"	1½"	0.20"	2KHE2	2KHE9
	¾"	⅜"	13⅝"	1½"	1½"	0.20"	2KHH8	—

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Aluminum Item No.	Aluminum w/90° Ports Item No.
2	1"	½"	5¼"	2¼"	2¼"	49AV63	—
	1"	¾"	6"	2¼"	2¼"	49AV70	—
3	1"	½"	7½"	2¼"	2¼"	49AV64	—
	1"	¾"	9"	2¼"	2¼"	49AV71	—
4	1"	½"	5¼"	2¼"	2¼"	—	49AV77
	1"	½"	9¾"	2¼"	2¼"	49AV65	—
	1"	¾"	12"	2¼"	2¼"	49AV72	—
	1"	¾"	6"	2¼"	2¼"	—	49AV84
5	1"	½"	12"	2¼"	2¼"	49AV66	—
	1"	¾"	15"	2¼"	2¼"	49AV73	—
6	1"	½"	14¼"	2¼"	2¼"	49AV67	—
	1"	½"	7½"	2¼"	2¼"	—	49AV78
	1"	¾"	18"	2¼"	2¼"	49AV74	—
	1"	¾"	9"	2¼"	2¼"	—	49AV85
7	1"	½"	16½"	2¼"	2¼"	49AV68	—
	1"	¾"	21"	2¼"	2¼"	49AV75	—
8	1"	½"	18¾"	2¼"	2¼"	49AV69	—
	1"	½"	9¾"	2¼"	2¼"	—	49AV79
	1"	¾"	24"	2¼"	2¼"	49AV76	—
10	1"	¾"	12"	2¼"	2¼"	—	49AV86
	1"	½"	12"	2¼"	2¼"	—	49AV80
	1"	¾"	15"	2¼"	2¼"	—	49AV87
12	1"	½"	14¼"	2¼"	2¼"	—	49AV81
	1"	¾"	18"	2¼"	2¼"	—	49AV88
14	1"	½"	16½"	2¼"	2¼"	—	49AV82
	1"	¾"	21"	2¼"	2¼"	—	49AV89
16	1"	½"	18¾"	2¼"	2¼"	—	49AV83
	1"	¾"	24"	2¼"	2¼"	—	49AV90

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Stainless Steel Item No.
2	⅜"	¼"	2⅛"	1¼"	1¼"	2KHL7
4	⅜"	¼"	3⅞"	1¼"	1¼"	2KHL8
6	⅜"	¼"	5⅝"	1¼"	1¼"	2KHL9
8	⅜"	¼"	7⅜"	1¼"	1¼"	2KHN1
10	⅜"	¼"	9⅛"	1¼"	1¼"	2KHN2

Brass and Lead-Free Brass 45° and Flare Fittings

- Temp. range: -65° to 250°F
- Pkg. qty.: 10, except where noted

May be disassembled and reassembled repeatedly. Resist mechanical pull-out and are suitable for use with thin-wall tubing. Material and working pressure of tubing must be determined before using in a specific application. Suitable for use in refrigeration equipment, air compressors, and machinery. Can be used with flareable copper, brass, aluminum, and welded steel hydraulic tubing. UL Listed for flammable liquids. Meet SAE J512 and J513. Lead-free fittings are certified for use in potable water applications.

Parker

GA GRAINGER APPROVED

PSI Ratings

Tube Size	Max. psi	Tube Wall (in.)
1/8"	2800	0.030
3/16"	1900	0.030
1/4"	1400	0.030
5/16"	1200	0.032
3/8"	1000	0.032
1/2"	750	0.032
5/8"	650	0.035
3/4"	550	0.035
7/8"	440	0.035



Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Extruded Male 90° Elbow Item No.	Female Connector Item No.	45° Male Elbow Item No.	90° Female Elbow Item No.	Male Branch Tee Item No.	Male Run Tee Item No.
Lead-Free, MNPT x Flare								
1/4"	3/8"	—	—	—	—	—	20XN23 †‡	—
5/8"	1/2"	—	—	—	—	—	20XN24 †‡	—
Tube x Thread								
3/16"	1/8"	3/8-24	5WRW7	1VDV4	—	—	—	—
1/4"	1/8"	7/16-20	5WRW8	2P186	1VEC5	2P198	1VDY6	1VEB5
1/4"	1/4"	7/16-20	5WRW9	1VDV5	1VEC7	2P199	2P204	1VEB6
1/4"	3/8"	7/16-20	5WRX0	1VDV6	—	—	—	—
5/16"	1/8"	1/2-20	5WRX1	1VDV7	—	—	—	—
5/16"	1/4"	1/2-20	5WRX2	1VDV8	—	1VEB2	—	—
3/8"	1/8"	5/8-18	5WRX3	1VDV9	—	—	—	—
3/8"	1/4"	5/8-18	5WRX4	2P187	1VEC9	1VEB4	1VDY8	1VEB7
3/8"	3/8"	5/8-18	5WRX5	2P188	1VED2	2P200	2P205	1VEB8
3/8"	1/2"	5/8-18	5WRX6	1VDW1	—	2P201	—	—
1/2"	1/4"	3/4-16	—	1VDW2	—	—	—	—
1/2"	3/8"	3/4-16	5WRX7	2P189	1VED4	2P202	1VDZ1	1VEB9
1/2"	1/2"	3/4-16	5WRX8	2P190	1VED6	2P203	2P206	5WRU7 †
1/2"	3/4"	3/4-16	—	2P191	—	—	—	—
5/8"	3/8"	7/8-14	—	—	5WRY4	—	—	—
5/8"	1/2"	7/8-14	5WRX9	2P192	1VEC3	—	—	5WRU8 †



Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Male 90° Forged Elbow Item No.	Male Connector Item No.
Tube x Thread				
3/16"	1/8"	3/8-24	1VDZ6	1VDW8
	1/4"	3/8-24	—	1VDW9
1/4"	1/8"	7/16-20	1VDZ7	2P178
	1/4"	7/16-20	1VDZ8	2P179
	3/8"	7/16-20	1VDZ9	1VDX1
	1/2"	7/16-20	—	1VDX2
5/16"	1/8"	1/2-20	1VEA1	1VDX3
	1/4"	1/2-20	1VEA2	1VDX4
	3/8"	1/2-20	1VEA3	1VDX5
3/8"	1/8"	5/8-18	1VEA6	1VDX7
	1/4"	5/8-18	2P193	2P180
	3/8"	5/8-18	2P194	2P181
	1/2"	5/8-18	2P195	2P182
	3/4"	5/8-18	—	1VDX6
1/2"	1/4"	3/4-16	1VEA9	1VDX9
	3/8"	3/4-16	1VEB1	2P183
	1/2"	3/4-16	2P196	2P184
	3/4"	3/4-16	1VEA8	1VDX8
5/8"	1/4"	7/8-14	—	1VDW4
	3/8"	7/8-14	1VDZ3	1VDW5
	1/2"	7/8-14	2P197	2P185
	3/4"	7/8-14	1VDZ2	1VDW3
3/4"	1/2"	1 1/16-14	1VDZ5	—
	1/2"	1 1/16-14	—	1VDW7
	3/4"	1 1/16-14	1VDZ4	—
	3/4"	1 1/16-14	—	1VDW6



Tube Size	Flare Thread Size	Adapter Item No.	Cap Item No.	Plug Item No.	Union Tee Item No.
Tube x Tube					
3/16"	3/8-24	—	1VDY1	—	1VDY4
1/4"	7/16-20	1VDV1	1VDY2	2P174	2P163
5/16"	1/2-20	—	1VDY3	—	1VDY5
3/8"	5/8-18	1VDV2	2P171	2P175	2P164
1/2"	3/4-16	1VDV3	2P172	2P176	2P165
5/8"	7/8-14	1VDU9	2P173	2P177	2P166
3/4"	1/16-14	5WRU9 †	—	—	5WRV1 †
3/4"	1 1/16-14	—	5WRV2 †	—	—



Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Reducing Tee (run x run x outlet) Item No.	Union Reducer Item No.
Lead-Free, Flare				
3/8" x 1/2"	—	—	20XN36 †‡	—
3/8" x 3/8" x 1/4"	—	—	20XN37 †‡	—
3/8" x 3/8" x 1/2"	—	—	20XN38 †‡	—
1/2" x 1/2" x 3/8"	—	—	20XN39 †‡	—
1/2" x 1/2" x 5/8"	—	—	20XN40 †‡	—
5/8" x 5/8" x 1/2"	—	—	20XN41 †‡	—
Tube x Tube				
3/8" x 1/4"	5/8-18	5/8-18 x 7/16-20	—	1VDU5
3/8" x 5/16"	5/8-18	5/8-18 x 1/2-20	—	1VDU6
1/2" x 1/4"	3/4-16	7/16-20	—	1VDU7
1/2" x 3/8"	3/4-16	5/8-18	—	1VDU8
5/8" x 1/2"	7/8-14	7/8-14 x 3/4-16	—	1VDU4



Tube Size	Copper Flare Gasket Item No.	Copper Seal Bonnet Item No.
Tube x Tube		
3/16"	5WRW0	—
1/4"	5WRW1	5WRV4
5/16"	5WRW2	5WRV5
3/8"	5WRW3	5WRV6
1/2"	5WRW4	5WRV7
5/8"	5WRW5	5WRV8
3/4"	5WRW6	—



Tube Size	Flare Thread Size	Long Forged Nut Item No.	Long Nut Item No.	Short Forged Nut Item No.	Short Nut Item No.	Union Item No.	Union Elbow, 90° Item No.
Tube x Tube							
1/8"	5/16-24	—	1VDR7	—	1VDT6	—	—
3/16"	3/8-24	—	1VDR9	—	1VDT8	1VDU2	5WRV0 †
1/4"	7/16-20	2P147	2P143	2P155	2P151	2P159	2P167
5/16"	1/2-20	—	1VDT2	—	1VDT9	1VDU3	1VEC2
3/8"	5/8-18	2P148	2P144	2P156	2P152	2P160	2P168
1/2"	3/4-16	2P149	2P145	2P157	2P153	2P161	2P169
5/8"	7/8-14	2P150	2P146	2P158	2P154	2P162	2P170
3/4"	1 1/16-14	—	1VDR5	—	—	—	—
3/4"	1/16-14	—	—	—	1VDT4	1VDU1	—



Tube Size	Flare Thread Size	Pkg. Qty.	Extruded Reducers Item No.
Tube x Tube			
3/8" x 1/2"	5/8-18	10	18E811
1/2" x 3/8"	3/4-16	10	18E812
1/2" x 5/8"	3/4-16	10	18E813
5/8" x 3/4"	7/8-14	5	18E814



Tube Size	Pipe Size - Pipe Fitting	Extruded 45° Elbow Item No.
Tube x Thread		
1/4"	1/8"	18E815
1/4"	1/4"	18E816
3/8"	1/4"	18E817
3/8"	3/8"	18E818
1/2"	3/8"	18E819



Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Pkg. Qty.	Forged 90° Swivel Elbow Item No.
Tube x Thread				
1/4"	1/4"	7/16-20	10	18E821
3/8"	3/8"	5/8-18	5	18E822
1/2"	1/2"	3/4-16	5	18E823
5/8"	5/8"	7/8-14	5	18E824
3/4"	3/4"	1 1/16-14	5	18E825



Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow Item No.
Lead-Free, Flare		
1/4"	1/4"	19H213 †
1/4"	1/2"	20XN30 †‡
3/8"	1/2"	19H214 †
3/8"	3/4"	20XN31 †‡
1/2"	3/4"	20XN32 †‡
5/8"	1/2"	20XN33 †‡
5/8"	3/4"	20XN34 †‡
Lead-Free, Threaded Both Sides		
—	1/4" x 1/2"	5KNG3 †
—	5/8" x 1/2"	5KNG6 †
1/2"	3/8"	5KNG4 †
5/8"	3/8"	5KNG5 †



Tube Size	Pipe Size - Pipe Fitting	Female Flare Connector Item No.
Lead-Free		
1/4"	7/16"-20	5KNH0 †
3/8"	—	5KNH2 †
3/8"	7/16"-20	5KNH1 †

† Sold in pkg. of 1. ‡ GA brand.

CONTINUED

CONTINUED

Brass and Lead-Free Brass 45° and Flare Fittings

Parker | GA GRAINGER APPROVED



Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.
Lead-Free, Threaded		
½"	¼"	**19H210** †
Lead-Free, Flare		
½"	⅜"	**19H211** †
½"	½"	**19H212** †



Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Male Connector Item No.
Lead-Free, Male Flare x MNPT			
¼"	⅛"	7/16-20	**46M522** †‡
¼"	¼"	7/16-20	**46M521** †‡
¼"	¼"	—	**20XN48** †‡
¼"	⅜"	7/16-20	**46M520** †‡
⅜"	¼"	⅝-18	**46M519** †‡
⅜"	⅜"	⅝-18	**46M518** †‡
⅜"	½"	⅝-18	**46M517** †‡
½"	⅜"	¾-16	**46M516** †‡
½"	½"	¾-16	**46M515** †‡
⅝"	½"	⅞-14	**46M514** †‡



Tube Size	Flare Thread Size	Male Union Item No.	Plug Item No.
Lead-Free, Male Flare			
¼"	7/16-20	**46M525** †‡	—
⅜"	⅝-18	**46M524** †‡	**46M530** †‡
½"	¾-16	**46M523** †‡	**46M529** †‡



Tube Size	Flare Thread Size	Cap Item No.	Forged Nut Item No.	Short Nut Item No.
Lead-Free, Female Flare				
¼"	7/16-20	**46M528** †‡	**46M534** †‡	**46M537** †‡
⅜"	⅝-18	**46M527** †‡	**46M533** †‡	**46M536** †‡
½"	¾-16	**46M526** †‡	**46M532** †‡	**46M535** †‡
⅝"	⅞-14	—	**46M531** †‡	—
Lead-Free, Flare				
⅜"	⅝-18	**19H215** †	—	—



Tube Size	Swivel Connector Item No.
Lead-Free, Flare	
¼"	**20XN42** †‡
¼" x ⅜"	**20XN46** †‡
⅜"	**20XN43** †‡
⅜" x ½"	**20XN47** †‡
½"	**20XN44** †‡
⅝"	**20XN45** †‡



Tube Size	Female Coupling Connection	Female Coupling Item No.
Lead-Free		
⅜"	Flare x Compression	**20XN49** †‡
⅜" x ⅝"	—	—



Reducer Connection	Reducer Item No.
—	—
Male Flare x Male Flare	**20XN35** †‡

† Sold in pkg. of 1. ‡ GA brand.

316 Stainless Steel 37° Flare Tube Fittings

Air-Way Manufacturing Company

GA GRAINGER APPROVED

- Temp. range: -160° to 1200°F

Superior chemical, water, and corrosion resistance for extreme applications. Good sealing reliability. Use as an adapter to hose assemblies, or as a tube fitting with flared stainless seamless or welded tubing.

Suitable for chemical plants, food plants, hydraulic applications, manufacturing facilities, water treatment plants, and beverage plants. Meet SAE J514.



Tube Size	Flare Thread Size	Max. Pressure	Cap, JIC Item No.	Male Connector, Flare x MNPT Item No.	Male Elbow, 90°, Flare x JIC Item No.	Male Elbow, 90°, Flare x MNPT Item No.	Male Plug, 37°, Flare x JIC Item No.	Male Straight Union, Flare x Flare Item No.	Tube Nut, JIC Item No.	Tube Sleeve, Flare x JIC Item No.
Airway										
¼"	7/16-20	6000 psi	**1LNT8**	—	**1LNT1**	—	**1LNU6**	**1LNK7**	**1LNV4**	**1LNW2**
5/16"	½-20	6000 psi	**1LNT9**	—	**1LNT2**	—	**1LNU7**	**1LNK8**	**1LNV5**	**1LNW3**
⅜"	9/16-18	6000 psi	**1LNU1**	—	**1LNT3**	—	**1LNU8**	**1LNK9**	**1LNV6**	**1LNW4**
½"	¾-16	6000 psi	**1LNU2**	—	**1LNT4**	—	**1LNU9**	**1LNL1**	**1LNV7**	**1LNW5**
⅝"	⅞-14	5000 psi	**1LNU3**	—	**1LNT5**	—	**1LNV1**	**1LNL2**	**1LNV8**	**1LNW6**
¾"	1 1/16-12	4800 psi	**1LNU4**	—	**1LNT6**	—	**1LNV2**	**1LNL3**	**1LNV9**	**1LNW7**
1"	1 5/16-12	3000 psi	**1LNU5**	—	—	—	—	—	—	—
1"	1 5/16-12	3500 psi	—	**1LNH3**	**1LNT7**	**1LNH4**	**1LNV3**	**1LNL4**	**1LNW1**	**1LNW8**



Thread Size	Hose Fitting A Size	Hose Fitting B Size	Max. Working Pressure @ 70°F	90° Elbow Item No.	Straight Item No.
GA					
1/8"-27	⅛"	¼"	4,000 psi	**4HM24**	—
1/8"-27	⅛"	¼"	4,500 psi	—	**4HM23**
¼"-14	½"	⅝"	3,000 psi	—	**4HM17**
¼"-18	¼"	¼"	4,500 psi	**4HM22**	**4HM21**
¼"-18	¼"	5/16"	4,000 psi	**4HM26**	**4HM25**
¼"-18	¼"	⅜"	4,000 psi	**4HM30**	**4HM29**
⅜"-18	⅜"	⅜"	4,000 psi	**4HM28**	**4HM27**
⅜"-18	⅜"	½"	4,000 psi	**4HM34**	**4HM33**
½"-14	½"	½"	4,000 psi	**4HM32**	**4HM31**
½"-14	½"	⅝"	3,000 psi	**4HM18**	—
¾"-14	¾"	¾"	3,000 psi	**4HM20**	**4HM19**

Parker

Poly-Tite Brass Compression Fittings

- Max. pressure: 150 psi
- Temp. range: 0° to 150°F
- Pkg. qty.: 10

Preassembled body, nut, and sleeve allow fast, convenient installation. An exclusive sleeve grips plastic tubing up to 150 psi. Nuts rotate around tubing as it tightens. Acetal copolymer sleeve with brass nut (Nos. 1VPA8 to 1VPB2) resists creeping and compression stress. For use with thermoplastic tubing in pneumatic and liquid applications.



Tube Size	Pipe Size - Pipe Fitting	Male Elbow, 90° Item No.	Female Connector Item No.	Male Connector Item No.	Male Run Tee Item No.	Male Branch Tee Item No.
¼"	⅛"	**1VPF1**	**1VPC9**	**1VPD8**	**1VPG4**	**1VPG9**
¼"	¼"	**1VPF2**	**1VPD1**	**1VPD9**	**1VPG5**	—
¼"	¼"	—	—	—	—	**1VPH1**
5/16"	⅛"	**1VPF3**	**1VPD2**	**1VPE1**	—	**1VPH2**
5/16"	¼"	—	—	**1VPE2**	—	—
⅜"	⅛"	**1VPF4**	—	**1VPE3**	—	**5UNN1**
⅜"	¼"	**1VPF5**	**1VPD3**	**1VPE4**	**1VPG6**	—
⅜"	¼"	—	—	—	—	**1VPH3**
⅜"	⅜"	**1VPF6**	—	**1VPE5**	—	—
½"	⅜"	**1VPF7**	**1VPD4**	**1VPE6**	—	**1VPH4**



Tube Size	Acetal Sleeve Item No.	Nut and Acetal Sleeve Item No.	Nut and Brass Sleeve Item No.	Sleeve Item No.	Union Item No.	Union Tee Item No.	Tube Size (Tube OD x Wall Thickness)	Insert Item No.
¼"	**1VNZ5**	**1VPA8**	**1VPB3**	**1VPA2**	**1VPB9**	**1VPF9**	⅛" x 1/64"	**1VPC4**
5/16"	**1VNZ6**	**1VPA9**	**1VPB4**	**1VPA3**	**1VPC1**	**1VPG1**	3/16" x 1/64"	**1VPC6**
⅜"	**1VNZ7**	**1VPB1**	**1VPB5**	**1VPA4**	**1VPC2**	**1VPG2**	3/16" x 3/64"	**1VPC7**
½"	**1VNZ8**	**1VPB2**	**1VPB6**	**1VPA5**	**1VPC3**	**1VPG3**		

Brass Compression and Lead-Free Brass Fittings

Parker

GA GRAINGER APPROVED

- Temp. range: Parker items are -65° to 200°F; GA items are -65° to 250°F
- Pkg. qty.: 10, except Low-Lead items are pkg. of 1

Eliminate the need to flare, solder, or otherwise prepare tubing before assembly. Use with annealed copper, aluminum, and thermoplastic tubing where excessive vibration or tube movement is not involved. UL Listed for flammable liquids. Meet SAE J-512 functional requirements, except Nos. 20XM26 to 20XM99 and 20XN01 to 20XN22 meet NSF 61 Annex G. Lead-free items are certified for use in potable water applications.

Tube Size	Max. psi	Tube Wall (in.)	Tube Size	Max. psi	Tube Wall (in.)
⅛"	400	0.030	½"	200	0.032
3⁄16"	400	0.030	⅝"	150	0.035
¼"	300	0.030	¾"	100	0.035
5⁄16"	300	0.032	⅞"	75	0.035
⅜"	200	0.032			



Tube Size	Pipe Size - Pipe Fitting	Extended Male Elbow, 90° Item No.	Female Connector Item No.	Female Elbow, 90° Item No.	Male Branch Tee Item No.	Male Connector Item No.	Male Elbow, 90° Item No.	Male Elbow, 45°, Compression Item No.
PARKER								
⅛"	⅛"	2P248	1VDC8	1VDJ2	1VDK1	2P236	—	—
3⁄16"	⅛"	1VDH7	1VDC9	1VDJ3	1VDK2	1VDE1	1VDG4	—
	¼"	—	5UNJ5	—	—	1VDE2	1VDG5	—
¼"	⅛"	2P249	2P229	2P245	1VDK3	2P237	1VDG6	1VDK9
	¼"	2P250	2P230	2P246	1VDK4	2P238	1VDG7	1VDL1
	⅜"	—	—	—	—	1VDE3	1VDG8	—
	½"	—	—	—	—	1VDE4	—	—
5⁄16"	⅛"	1VDH8	1VDD1	—	—	1VDE5	1VDG9	—
	¼"	1VDH9	1VDD2	—	—	1VDE6	1VDH1	—
	⅜"	—	—	—	—	—	1VDH2	—
⅜"	⅛"	1VDJ1	1VDD3	—	1VDK5	1VDE7	1VDH3	—
	¼"	2P251	2P231	1VDJ4	1VDK6	2P239	1VDH4	1VDL2
	⅜"	2P252	2P232	2P247	1VDK7	2P240	1VDH5	1VDL3
	½"	—	1VDD4	—	—	2P241	2P253	—
½"	¼"	—	1VDD5	—	—	1VDE8	1VDH6	—
	⅜"	—	2P233	1VDJ6	1VDK8	2P242	2P254	1VDL4
	½"	—	2P234	5UNJ7	—	2P243	2P255	—
⅝"	⅜"	—	—	—	—	1VDD7	1VDG1	—
	½"	—	2P235	—	—	2P244	2P256	—
	¾"	—	—	—	—	1VDD6	—	—
¾"	½"	—	—	—	—	1VDD9	1VDG3	—
	¾"	—	—	—	—	1VDD8	1VDG2	—



Tube Size	90° Union Elbow Item No.	Acetal Copolymer Sleeve Item No.	Brass Sleeve Item No.	Long Nut Item No.	Nut Item No.	Union Item No.	Union Tee (run x run x outlet) Item No.	Insert Item No.
PARKER								
⅛"	1VDF6	—	1VCZ2	—	1VDA2	1VDB1	1VDE9	—
3⁄16"	1VDF7	—	1VCZ3	—	1VDA3	1VDB2	1VDF2	—
¼"	2P226	1VCZ6	2P211	1VDA6	2P215	2P218	2P222	2P207
5⁄16"	1VDF8	1VCZ7	1VCZ4	—	1VDA4	1VDB3	1VDF1	1VDC6
⅜"	2P227	1VCZ8	2P212	1VDA7	2P216	2P219	2P223	2P208
⅜" x ⅝"	—	—	—	—	—	5UNK1	—	—
⅜" x ¼" x ¼"	—	—	—	—	—	—	5UNK0	—
½"	2P228	1VCZ9	2P213	1VDA8	2P217	2P220	2P224	2P209
⅝"	1VDF5	1VCZ5	2P214	—	2P261	2P221	2P225	2P210
¾"	5UNJ8	—	1VCZ1	—	1VDA1	1VDA9	—	—

Tube Size	Tube Support Item No.
Lead-Free, PARKER	
⅛"	19H207
¼"	19H206
¼"	5KNG7
5⁄16"	19H209
⅜"	5KNG8
½"	5KNG9



Tube Size	Female Elbow, 90° Item No.	Insert Item No.	Union Tee Item No.	Union Item No.	Sleeve Item No.	Sweat Adapter Item No.	Cap Item No.
Lead-Free, GA							
⅛"	—	46M543	—	46M568	46M581	—	—
3⁄16"	—	46M542	—	46M567	46M580	—	—
¼"	46M559	46M541	46M561	46M566	46M579	—	20XM91
5⁄16"	—	46M540	—	46M565	46M578	—	20XM92
⅜"	46M558	46M539	46M560	46M564	46M577	—	20XM93
7⁄16"	—	—	—	—	20XM26	—	—
½"	—	46M538	—	46M563	46M576	—	20XM94
⅝"	—	—	—	46M562	46M575	—	20XM95
⅝" x ⅜"	—	—	—	—	—	20XN08	—
⅞"	20XM32	—	—	20XM30	20XM27	—	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Female Connector Item No.
Lead-Free, GA			
⅛"	⅛"	20XN28	—
5⁄16"	⅛"	46M555	—
5⁄16"	¼"	46M554	—
⅜"	⅛"	46M553	—
⅜"	¼"	46M552	46M557
⅜"	⅜"	46M551	46M556
⅜"	½"	46M550	—
½"	⅜"	46M549	—
½"	½"	46M548	—
⅝"	½"	46M547	—
⅞"	¾"	20XN29	—

Tube Size	Pipe Size - Pipe Fitting	Male Coupling Item No.	Female Coupling Item No.
Lead-Free, GA			
⅛"	⅛"	20XM46	20XM33
3⁄16"	⅛"	20XM47	20XM34
3⁄16"	¼"	20XM48	—
¼"	⅛"	20XM49	20XM35
¼"	¼"	20XM50	20XM36
¼"	⅜"	20XM51	20XM37
¼"	½"	20XM52	20XM38
5⁄16"	⅜"	20XM53	—
5⁄16"	½"	20XM54	—
⅜"	¾"	20XM55	20XN25
7⁄16"	¼"	20XM56	—
7⁄16"	⅜"	20XM57	—
½"	¾"	20XM58	20XM39
⅝"	⅜"	—	20XM40
⅝"	⅜"	—	20XN26 *
⅝"	¾"	—	20XM41
⅝"	¾"	—	20XN27 *
¾"	½"	—	20XM42
¾"	¾"	—	20XM43
⅞"	½"	20XM59	20XM44
⅞"	¾"	20XM60	20XM45

** FNPT x Flare connection.*



Tube Size	Reducer Item No.	Reducing Elbow Item No.
Lead-Free, GA		
¼"	20XM96	—
5⁄16"	20XM97	—
⅜" x ¼"	20XM98	—
⅜" x ⅝"	—	20XN06
⅜" x 5⁄16"	20XM99	—
½" x ⅝"	20XN02	20XN07
½"	20XN01	—



Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow Item No.	90° Female Elbow Item No.
Lead-Free, GA			
⅛"	⅛"	20XM62	20XM72
3⁄16"	⅛"	20XM63	20XM73
3⁄16"	¼"	20XM64	—
¼"	⅛"	20XM65	—
¼"	¼"	20XM66	20XM75
¼"	⅜"	20XM67	—
¼"	½"	20XM68	20XM74
⅜"	⅛"	—	20XM76
⅜"	¼"	46M546	—
⅜"	⅜"	46M545	—
⅜"	½"	—	20XM77
½"	⅜"	46M544	—
½"	¾"	20XM69	—
⅝"	½"	—	20XM78



Tube Size	Nut Item No.
Lead-Free, GA	
⅛"	20XN09
3⁄16"	20XN10
¼"	20XN11
¼"	46M572
¼" x ⅜"	20XN20
5⁄16"	20XN12
⅜"	20XN13
⅜" x ½"	20XN21
⅜"	46M570
7⁄16"	20XM28
½"	20XN14
½" x ⅝"	20XN22
⅝"	20XN15
¾"	20XN16
⅞"	20XN17



Tube Size	Compression Thread Size	Branch Tee (run x run x outlet) Item No.
Lead-Free, GA		
¼"	5⁄16-24 x 7⁄16-24	20XM83
¼"	7⁄16-24	20XM84
3⁄16"	5⁄16-24 x ½-24	20XM85
3⁄16"	7⁄16-24 x ½-24	20XM86
½"	11⁄16-20	20XM87
⅝"	11⁄16-20 x 13⁄16-18	20XM88

Parker

Compress-Align® Brass and Lead-Free Brass Fittings

- **Temp. range: -65° to 200°F**

These heavy-duty fittings align to seal even out-of-round tubing, so tubing does not require flaring, solder, or other preparation. Preassembled brass fittings have captive sleeves. Bodies are interchangeable with standard compression fitting bodies. For low- and medium-pressure tubing connections to copper, brass, aluminum, and thermoplastic tubing. Lead-free items are certified for use in potable water applications.







Tube Size	Pipe Size - Pipe Fitting	90° Extruded Male Elbow Item No.	Pkg. Qty.	90° Forged Male Elbow Item No.	Pkg. Qty.	90° Female Elbow Item No.	Pkg. Qty.	Female Connector Item No.	Pkg. Qty.	Male Connector Item No.	Pkg. Qty.
⅛"	⅛"	6LG48	25	—	—	1VDN3	10	6LH58	10	6LJ01	25
3⁄16"	⅛"	6LG49	25	6LG01	10	—	—	6LH59	25	6LJ02	50
	¼"	—	—	6LG02	10	—	—	—	—	6LJ03	25
¼"	⅛"	6LG50	50	6LG03	50	6LG18	25	6LH61	25	6LJ04	100
	¼"	6LG51	50	6LG04	50	6LG19	25	6LH62	10	6LJ05	100
	⅜"	—	—	6LG05	10	—	—	—	—	6LJ06	10
	½"	—	—	—	—	—	—	—	—	6LJ07	10
5⁄16"	⅛"	—	—	6LG06	10	—	—	—	—	6LJ08	25
	¼"	6LG53	10	6LG07	25	—	—	6LH64	10	6LJ09	25
⅜"	⅛"	6LG54	10	6LG09	10	—	—	—	—	6LJ10	25
	¼"	6LG55	25	6LG10	25	6LG20	10	6LH66	10	6LJ11	100
	⅜"	6LG56	25	6LG11	25	6LG21	10	6LH67	10	6LJ12	25
	½"	—	—	6LG12	10	—	—	6LH68	10	6LJ13	25
½"	¼"	—	—	6LG13	10	—	—	—	—	6LJ14	10
	⅜"	—	—	6LG14	10	6LG22	10	—	—	6LJ15	25
	½"	—	—	6LG15	10	5UNK4	5	6LH71	10	6LJ16	25
¾"	¾"	—	—	6LF97	5	—	—	—	—	6LH95	10
1"	¾"	—	—	—	—	—	—	—	—	6LH98	5

Tube Size	Max. psi	Tube Wall (in.)	Tube Size	Max. psi	Tube Wall (in.)
⅛"	2800	0.030	½"	750	0.032
3⁄16"	1900	0.030	⅝"	650	0.035
¼"	1400	0.030	¾"	550	0.035
5⁄16"	1200	0.032	⅞"	450	0.035
⅜"	1000	0.032	1"	350	0.035





Tube Size	Pipe Size - Pipe Fitting	45° Male Elbow Item No.	Pkg. Qty.	Male Branch Tee Item No.	Pkg. Qty.	Male Run Tee Item No.	Pkg. Qty.
⅛"	⅛"	—	—	1VDN9	10	1VDN5	10
	3⁄16"	—	—	—	—	6LG24	10
¼"	⅛"	1VDP4	10	6LG31	10	6LG25	10
	¼"	1VDP6	10	6LG32	10	6LG26	10
⅜"	¼"	1VDP8	10	6LG34	10	1VDN7	10
	⅜"	—	—	6LG35	10	—	—









Tube Size	90° Union Elbow Item No.	Pkg. Qty.	Forged Union Tee Item No.	Pkg. Qty.	Tube Nut Item No.	Pkg. Qty.	Union Item No.	Pkg. Qty.
⅛"	1VDL7	10	6LF77	10	6LH14	100	6LH24	25
3⁄16"	1VDL8	10	—	—	6LH15	100	6LH25	25
¼"	6LF90	10	6LF78	25	6LH16	100	6LH26	50
5⁄16"	5UNK8	10	—	—	6LH17	50	6LH28	50
⅜"	6LF92	10	6LF80	25	6LH18	100	6LH29	50
½"	6LF93	10	6LF83	10	6LH19	50	6LH31	25
¾"	6LF86	5	5UNK9	6	—	—	6LH22	10

Tube Size	Union Reducer Item No.	Pkg. Qty.
¼" x 3⁄16"	6LH27	10
⅜" x ¼"	6LH30	10
⅜" x ¼" x ¼"	—	—
½" x ⅜"	6LH32	10
½" x ½" x ⅜"	—	—
⅝" x ⅜"	6LH21	10

Unequal Union Tee (run x run x outlet) Item No.	Pkg. Qty.
—	—
—	—
5UNK6	10
—	—
5UNK7	10
—	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Pkg. Qty.	Male Elbow, 90° Item No.	Pkg. Qty.
Lead-Free					
¼"	¼"	5KNF3	1	—	—
⅜"	¼"	5KNF4	1	5KNF2	1
⅜"	⅜"	—	—	19H203	1

Parker

Pargrip PFA Compression Fittings

- **Temp. range: 0° to 266°F**

Virgin fluoropolymer materials provide highest purity and highest temperature capability of any thermoplastic material. Suitable for high-purity lab and semiconductor applications, especially with aggressive liquids and in highly corrosive environments. Can be easily assembled without hand tools or the need to heat and flare tubing. FDA Approved materials.





Tube Size	Reducing Elbow, 90° Item No.	Straight Reducer Item No.
¼" x ⅛"	2CGE5	2CGD9
⅜" x ¼"	2CGE6	2CGE1
½" x ¼"	2CGE7	2CGE2
½" x ⅜"	—	2CGE3
¾" x ½"	—	2CGE4

Tube Size	Tee Connector Item No.
⅛"	2CGD5
¼"	2CGD6
⅜"	2CGD7
½"	2CGD8





Tube Size	Straight Connector Item No.	Cap Item No.	Union Elbow Item No.
¼"	2CGD1	2CGF6	—
⅜"	2CGD2	—	2CGC6
½"	2CGD3	2CGF8	2CGC7
¾"	2CGC8	—	2CGC3





Tube Size	Pipe Size - Pipe Fitting	Elbow, 90° Item No.	Female Straight Adapter Item No.	Male Straight Adapter Item No.
⅛"	¼"	2CFX1	2CFV6	2CFY5
¼"	⅛"	2CFX2	—	2CFY6
	¼"	2CFX3	2CFV8	2CFY7
	⅜"	2CFX4	2CFV9	2CFY8
	½"	2CFX5	2CFW1	2CFY9
⅜"	¼"	2CFX6	2CFW2	2CFZ1
	⅜"	2CFX7	2CFW3	2CFZ2
	½"	2CFX8	2CFW4	2CFZ3
½"	¼"	2CFX9	—	2CFZ4
	⅜"	2CFY1	—	2CFZ5
	½"	2CFY2	2CFW7	2CFZ6
¾"	¾"	2CFW8	—	2CFY3
⅛"	⅛"	—	2CFV5	2CFY4






Tube Size	Ferrule Item No.	Gripper Item No.	Nut Item No.	Nut Assembly Item No.
⅛"	2CGH7	2CGH2	—	2CGG6
¼"	2CGH8	2CGH3	2CGG2	2CGG7
⅜"	2CGH9	2CGH4	2CGG3	2CGG8
½"	2CGJ1	2CGH5	—	2CGG9
¾"	2CGJ2	2CGH6	—	—

CPI™ vs. A-Lok®

CPI: Single-ferrule design creates a dynamic seal on tube and body, with close tolerance of nut and body dimensions for accurate tube alignment.

A-Lok: Have a double-ferrule design that allows the front ferrule to create a pressure seal on tube and body.

316 Stainless Steel Instrumentation Tube Fittings

- Temp. range: -425° to 1200°F

Provide leaktight seals in gas or liquid service. Have a 4:1 safety factor with respect to working pressure capabilities of the tubing used. Compression design allows for easy assembly. Use with 304, 316, or 316L stainless steel tubing. For use in refineries, chemical processing, power generation, and instrument lines.

Pipe Pressure Ratings Stainless Steel

Pipe Size (in.)	Male Straight	Male Shape	Female Straight	Female Shape
⅛	9100	9100	6400	5500
¼	7500	7500	6600	5600
⅜	7200	7200	5300	5000
½	6600	5800	5200	4500
¾	6400	6400	4300	3500
1	4600	4600	4500	3900









Tube Size	Pipe Size - Pipe Fitting	A-LOK® Male Connector Item No.	CPI™ Male Connector Item No.	A-LOK® Male Elbow, 90° Item No.	CPI™ Male Elbow, 90° Item No.	A-LOK® Female Connector Item No.	CPI™ Female Connector Item No.	CPI™ Thermocouple Connector Item No.
Tube x Thread								
⅛"	⅛"	—	—	5UNC4	5UNF0	—	—	4CXC9
	¼"	—	—	—	—	—	—	4CXD1
¼"	⅛"	1PZC8	1PZH4	1PZD9	1PZJ4	—	—	—
	¼"	1PZC9	1PZH5	1PZE1	1PZJ5	1PZE5	1PZJ9	4CXD2
	⅜"	1PZD1	1PZH6	—	—	—	—	4CXD3
	½"	1PZD2	1PZH7	—	—	—	—	4CXD4
⅜"	⅛"	—	—	2KKX8	5UNF1	—	—	—
	¼"	1PZD3	1PZH8	1PZE2	1PZJ6	1PZE6	1PZK1	4CXD5
	⅜"	1PZD4	1PZH9	1PZE3	1PZJ7	—	—	4CXD6
	½"	1PZD5	1PZJ1	2KKX9	—	—	—	4CXD7
½"	¼"	1PZD6	1PZJ2	2KKY1	4CWU7	—	4CWU8	—
	⅜"	1PZD7	1RAC4	2KKY2	—	—	—	—
	½"	1PZD8	1PZJ3	1PZE4	1PZJ8	1PZE7	1PZK2	4CXD8
	¾"	2KKX5	—	—	—	—	—	4CXD9
⅝"	½"	2KKX1	4CWY4	—	—	4EUK7	—	—
¾"	½"	2KKX3	—	—	—	—	—	—
	¾"	2KKX2	4CWZ7	2KKX6	4CWZ5	4CXP9	4CWZ8	—
1"	1"	2KKX4	4CXC2	2KKX7	4CXA9	4CXR7	—	—










Tube Size	Pipe Size - Pipe Fitting	A-LOK® Tube End Male Adapter Item No.	CPI™ Tube End Male Adapter Item No.	A-LOK® Tube End Female Adapter Item No.	CPI™ Tube End Female Adapter Item No.	A-LOK® Female Branch Tee Item No.	CPI™ Female Branch Tee Item No.	A-LOK® Male Branch Tee Item No.	CPI™ Male Branch Tee Item No.
Tube x Thread (Cont.)									
⅛"	⅛"	5UND3	5UNF9	—	—	5UNA6	—	5UNC1	5UNE7
	¼"	5UND4	5UNG0	5UND1	—	—	—	5UNC2	—
¼"	⅛"	5UND5	5UNG1	5UND2	5UNF8	—	—	5UNC3	5UNE9
	¼"	4CXL4	4CWT3	4CXL5	4CWT4	4CXT8	4CWT6	5XPD2	5XNZ3
	¼"	—	—	—	—	—	4CWT7	—	5XNZ4
⅜"	¼"	—	—	—	—	—	—	—	2KKW9
	⅜"	4CXL7	4CWU3	4CXL8	4CWU4	4CXT9	—	5XPD4	5XNZ5
	⅜"	—	—	—	—	—	2KKW8	5XPD5	—
½"	½"	4CXN1	—	4CXN2	—	4CXU1	—	5XPD6	5XNZ7
	¾"	—	—	—	—	—	4CWX7	—	—
⅝"	½"	—	—	—	—	4CXU2	—	—	—
¾"	¾"	4CXT6	—	4CXT7	—	4CXU3	—	5XPD8	—









Tube Size	Pipe Size - Pipe Fitting	A-LOK® Female Elbow, 90° Item No.	CPI™ Female Elbow, 90° Item No.	A-LOK® Male Run Tee Item No.	CPI™ Male Run Tee Item No.
Tube x Thread (Cont.)					
⅛"	⅛"	—	—	5UNC6	5UNF2
	¼"	5UNA8	—	—	—
¼"	⅛"	5UNA9	—	5UNC7	5UNF3
	¼"	—	—	—	5XPA1
	⅜"	5XPE5	—	—	—
	½"	5XPE6	5XPA7	—	—
⅜"	¼"	5XPE9	5XPC0	5XPE1	5XPA2
	⅜"	5XPF0	5XPC1	5XPE2	5XPA3
	½"	5XPF1	5XPC2	—	—
½"	¼"	5XPF2	5XPC3	—	—
	⅜"	5XPF3	—	—	—
	½"	5XPF4	5XPC5	5XPE3	5XPA4
⅝"	½"	5XPF6	—	—	—
¾"	½"	5XPF7	—	—	—

Tube Size	A-LOK® 90° Union Elbow Item No.	CPI™ 90° Union Elbow Item No.	A-LOK® Union Item No.
Tube x Tube			
⅛"	5UND8	5UNG4	5UND7
¼"	1PZF5	1PZK9	1PZE8
⅜"	1PZF6	1PZL1	1PZE9
½"	1PZF7	1PZL2	1PZF1
⅝"	2KKZ5	4CWY3	4CXP2
¾"	2KKZ6	4CWZ6	2KKZ3
1"	2KKZ7	—	2KKZ4

CONTINUED

Find more information for comparing CPI™ and A-Lok® Fittings on page 2857.

316 Stainless Steel Instrumentation Tube Fittings

Parker







Tube Size	CPI™ Union Item No.	A-LOK® Union Tee Item No.	CPI™ Union Tee Item No.	A-LOK® Tube Nut Item No.	CPI™ Tube Nut Item No.
Tube x Tube (Cont.)					
1/8"	5UNG3	5UND9	—	5UND6	5UNG2
1/4"	1PZK3	1PZF8	1PZL3	1WVJ7	1WVK1
3/8"	1PZK4	1PZF9	1PZL4	1WVJ8	1WVK2
1/2"	1PZK5	1PZG1	1PZL5	1WVJ9	1WVK3
5/8"	4CWY6	4CXP1	—	4CXN5	4CWX9
3/4"	4CWZ9	2KKZ1	4CXA1	4CXP4	4CWZ3
1"	—	2KKZ2	—	4CXR2	—






Tube Size	A-LOK® Tube End Reducer Item No.	CPI™ Tube End Reducer Item No.	A-LOK® Reducing Union Item No.	CPI™ Reducing Union Item No.
Tube x Tube (Cont.)				
1/16" x 1/8"	4CXU5	—	—	—
1/8" x 1/4"	—	4CWT5	—	—
1/4" x 1/8"	4CXU7	—	5UNC9	4CWT2
1/4"	4CXL6	—	—	—
1/4" x 5/16"	4CXU9	—	—	—
1/4" x 3/8"	4CXL9	4CWU5	—	—
1/4" x 1/2"	4CXV2	—	—	—
3/8" x 1/2"	—	4CWX5	—	—
3/8" x 1/4"	—	—	2KKY7	4CWU1
1/2" x 3/8"	4CXV1	—	2KKY9	4CWX1
1/2" x 3/4"	4CXV3	—	—	—
1/2" x 1/4"	—	—	2KKY8	4CWU9
3/4" x 1/2"	—	—	2KKY6	—
1" x 1/2"	—	—	4CXR8	—









Tube Size	A-LOK® Bulkhead Union Item No.	CPI™ Bulkhead Union Item No.	A-LOK® Cap Item No.	CPI™ Cap Item No.	A-LOK® Front Ferrule Item No.	A-LOK® Plug Item No.	CPI™ Plug Item No.
Tube x Tube (Cont.)							
1/8"	5UNA4	—	5UNA5	—	5UNC0	5UNC8	5UNF4
1/4"	1PZF2	1PZK6	1PZG2	1PZL6	1PZG7	1PZG5	1PZL9
3/8"	1PZF3	1PZK7	1PZG3	1PZL7	1PZG8	1PZG6	1PZN1
1/2"	1PZF4	1PZK8	1PZG4	1PZL8	1PZG9	—	1PZN2
1/2"	—	—	—	—	—	—	1RAC6
5/8"	—	—	4CXN9	—	4CXN7	4CXN8	—
3/4"	4CXP3	—	4CXP8	—	4CXP6	4CXP7	4CXA3
1"	—	—	4CXR6	—	4CXR4	—	—







Tube Size	A-LOK® Back Ferrule Item No.	CPI™ Ferrule Item No.	A-LOK® Union Cross Item No.
Tube x Tube (Cont.)			
1/8"	5UNA3	5UNE6	4CXR9
1/4"	1PZH1	1PZN3	4CXT1
3/8"	1PZH2	1PZN4	4CXT2
1/2"	1PZH3	1PZN5	4CXT3
5/8"	4CXN6	4CWY1	—
3/4"	4CXP5	4CWZ4	—
1"	4CXR3	—	—

Tube Size	Pipe Size - Pipe Fitting	Hex Size	A-LOK® Male Connector Item No.
Tube x BSPP			
1/4"	1/8"	9/16"	4CXV4
	1/4"	3/4"	4CXV5
	1/2"	1 1/16"	4CXV6
3/8"	3/8"	3/4"	4CXV7
	3/8"	1 1/16"	4CXV8
1/2"	1/2"	1 1/16"	4CXV9

Tube Size	A-LOK® Sanitary Flange Item No.
Tube x Flange	
3/8" x 3/4"	4CXW3

316 Stainless Steel Metric Instrumentation Tube Fittings

HAM-LET ADVANCED CONTROL TECHNOLOGY

- Temp. range: -425° to 1200°F

LET-LOK® premium fittings are suitable for use in high-pressure applications in heavy industrial environments, such as petrochemical, fluid power, nuclear, and electronic. Meet SAE, ASME, MIL-F-18866, and CE Certified.







Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Cap Item No.	Union Item No.	Union Tee Item No.
LET-LOK®					
4mm	4CMV4	—	—	4CMU2	4CMR1
6mm	4CMV5	4CMV9	4CMW3	4CMU3	4CMR2
8mm	4CMV6	4CMW1	4CMW4	4CMU4	4CMR3
10mm	4CMV7	4CMW2	4CMW5	4CMU5	4CMR4
12mm	4CMV8	—	4CMW6	4CMU6	4CMR5



Tube Size	Reducing Union Item No.
LET-LOK®	
4mm x 1/4"	4CMU7
6mm x 1/4"	4CMU8
8mm x 1/4"	4CMU9
8mm x 3/8"	4CMV1
12mm x 1/4"	4CMV2
12mm x 3/8"	4CMV3






Tube Size	Front Ferrule Item No.	Back Ferrule Item No.	Nut Item No.	Plug Item No.
LET-LOK®				
4mm	4CMX7	4CMY3	—	4CMW7
6mm	4CMX8	4CMY4	4CMX3	4CMW8
8mm	4CMX9	4CMY5	4CMX4	4CMW9
10mm	4CMY1	4CMY6	4CMX5	4CMX1
12mm	4CMY2	4CMY7	4CMX6	4CMX2




Tube Size	Pipe Size - Pipe Fitting	Female Connector Item No.	Female Elbow, 90° Item No.
LET-LOK® x FNPT			
6mm	1/4"	4CMR6	4CMT6
	1/2"	4CMR7	—
8mm	1/4"	4CMR8	4CMT7
10mm	1/4"	4CMR9	—
	3/8"	4CMT1	—
	1/2"	4CMT2	—
12mm	1/4"	4CMT3	4CMT9
	3/8"	4CMT4	—
	1/2"	4CMT5	—




Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Male Elbow, 90° Item No.
LET-LOK® x MNPT			
4mm	1/8"	4CML2	4CMN8
	1/4"	4CML3	—
6mm	1/8"	4CML4	—
	1/4"	4CML5	4CMP1
	3/8"	4CML6	4CMP2
	1/2"	4CML7	—
8mm	1/4"	4CML8	4CMP3
	3/8"	4CML9	—
	1/2"	4CMN1	4CMP4
10mm	1/4"	4CMN2	4CMP5
	3/8"	4CMN3	—
	1/2"	4CMN4	4CMP6
12mm	1/4"	4CMN5	4CMP7
	3/8"	4CMN6	4CMP8
	1/2"	4CMN7	4CMP9

LET-LOK® Compression Tube Fittings

HAM-LET ADVANCED CONTROL TECHNOLOGY

- Temp. range: -425° to 1200°F
- Pkg. qty.: 1, except Nos. 31LC03 to 31LC07 are 10 per pkg.

Feature LET-LOK fittings that both seal and grip the tubing for a leak-tight assembly. Fittings are 316 stainless steel construction for corrosion resistance. Suitable for food processing, petrochemical, and pharmaceutical applications. Meet ASME, ASTMA, MIL-F-18866, SAE, and CE Certified.









Tube Size	Front and Back Ferrule Max. Pressure	Item No.	Nut Max. Pressure	Item No.	Straight Union Max. Pressure	Item No.	Union Tee Max. Pressure	Item No.	Union Elbow Max. Pressure	Item No.
⅛"	2450 to 5850 psi	31LC06	8550 to 10,950 psi	31LC10	—	—	—	—	—	—
¼"	8550 to 10,950 psi	31LC05	4100 to 10,300 psi	31LC09	4100 to 10,300 psi	31LC14	4100 to 10,300 psi	31LC22	4100 to 10,300 psi	31LC25
⅜"	3350 to 6550 psi	31LC07	3350 to 6550 psi	31LC12	3350 to 6550 psi	31LC16	3350 to 6550 psi	31LC23	3350 to 6550 psi	31LC27
½"	2650 to 6750 psi	31LC03	2650 to 6750 psi	31LC08	2650 to 6750 psi	31LC13	2650 to 6750 psi	31LC21	2650 to 6750 psi	31LC24
¾"	4100 to 10,300 psi	31LC04	2450 to 5850 psi	31LC11	2450 to 5850 psi	31LC15	—	—	2450 to 5850 psi	31LC26




Tube Size	Pipe Size - Pipe Fitting	Max. Pressure	Female Run Tee Item No.	Female Branch Tee Item No.
¼"	⅛"	4100 to 10,300 psi	31LC57	31LC63
	¼"		31LC56	31LC62
⅜"	¼"	3350 to 6550 psi	31LC58	31LC64
	⅜"		31LC59	31LC65
½"	¼"	2650 to 6750 psi	31LC55	31LC61
	½"		31LC54	31LC60




Reducing Union Tube Size	Max. Pressure	Item No.
¼" x ⅛"	4100 to 10,300 psi	31LC18
⅜" x ¼"	3350 to 6550 psi	31LC20
½" x ⅜"	2650 to 6750 psi	31LC17
¾" x ½"	2450 to 5850 psi	31LC19

Bulkhead Union Tube Size	Max. Pressure	Item No.
¼"	4100 to 10,300 psi	31LC67
⅜"	3350 to 6550 psi	31LC68
½"	2650 to 6750 psi	31LC66
—	—	—

Tube Size	Pipe Size - Pipe Fitting	Female Connector Max. Pressure	Female Connector Item No.	Male Connector Max. Pressure	Male Connector Item No.	Male Connector Elbow Max. Pressure	Male Connector Elbow Item No.
¼"	⅛"	—	—	4100 to 10,300 psi	31LC37	4100 to 10,300 psi	31LC49
	¼"	4100 to 10,300 psi	31LC29	4100 to 10,300 psi	31LC36	4100 to 10,300 psi	31LC48
	⅜"		—	4100 to 10,300 psi	31LC38	—	—
	½"	—	—	4100 to 10,300 psi	31LC35	—	—
⅜"	⅛"		—	—	—	3350 to 6550 psi	31LC52
	¼"	3350 to 6550 psi	31LC30	3350 to 6550 psi	31LC42	3350 to 6550 psi	31LC51
	⅜"		—	3350 to 6550 psi	31LC43	3350 to 6550 psi	31LC53
	½"	—	—	3350 to 6550 psi	31LC41	3350 to 6550 psi	31LC50
½"	¼"		—	2650 to 6750 psi	31LC32	2650 to 6750 psi	31LC46
	⅜"		—	2650 to 6750 psi	31LC34	2650 to 6750 psi	31LC47
	½"	2650 to 6750 psi	31LC28	2650 to 6750 psi	31LC31	2650 to 6750 psi	31LC45
	¾"		—	2650 to 6750 psi	31LC33	—	—
⅝"	½"	—	—	2950 to 6050 psi	31LC44	—	—
¾"	½"		—	2450 to 5850 psi	31LC39	—	—
	¾"		—	2450 to 5850 psi	31LC40	—	—

Parker

Brass Instrumentation Tube Fittings

- Temp. range: -40° to 400°F

Provide leaktight seals in gas or liquid service. Designed with 4:1 safety factor with respect to working pressure capabilities of the tubing used. Compression design allows easy assembly. For an explanation of the differences between CPI™ and A-Lok® fittings, see page 2857. For use in refineries, chemical processing, power generation, impulse lines, etc.

Pipe Size (in.)	Pipe Pressure Ratings Brass (psi) Male Straight	Male Shape	Female Straight	Female Shape
⅛	5600	5000	4000	2900
¼	4100	4100	4300	3000
⅜	4000	4000	3500	2700
½	3900	3100	3600	2500






Tube Size	Pipe Size - Pipe Fitting	A-LOK® Male Connector Item No.	CPI™ Male Connector Item No.	A-LOK® Female Connector Item No.	CPI™ Female Connector Item No.	A-LOK® Male Adapter Item No.	CPI™ Male Adapter Item No.	A-LOK® Female Adapter Item No.	CPI™ Female Adapter Item No.
CA-360, QQ-B 626 Alloy 360, ASTM-B16 Alloy 360, CA-345, ASTM-B-453 Alloy 345									
¼"	⅛"	1PZN6	1PZV9	—	—	—	—	—	—
	¼"	1PZN7	1PZW1	1PZR7	1PZY1	4CXW8	4CXE3	4CXX1	4CXE4
	⅜"	1PZN8	1PZW2	—	—	—	—	—	—
	½"	1PZN9	1PZW3	—	—	—	—	—	—
⅜"	¼"	1PZP1	1PZW4	1PZR8	1PZY2	—	—	—	—
	⅜"	1PZP2	1PZW5	—	—	4CXY4	4CXE9	4CXY5	4CXF1
	½"	1PZP3	1PZW6	—	—	—	—	—	—
½"	¼"	1PZP4	1PZW7	—	4CXF5	—	—	—	—
	⅜"	1PZP5	1PZW8	—	—	—	—	—	—
	½"	1PZP6	1PZW9	1PZR9	1PZY3	4CXZ4	—	—	—
⅝"	⅜"	1PZP7	1PZX1	—	1PZY4	—	—	—	—
	½"	1PZP8	1PZX2	1PZT2	—	—	—	—	—
¾"	¾"	4EUG2	4CXH3	4EUF9	4CXH4	4EUG5	—	—	—
1"	1"	4EUH9	4CXJ6	4EUH5	—	—	—	—	—
½"	¾"	—	—	—	—	—	—	4CXZ5	4CXG1









Tube Size	A-LOK® Union Item No.	CPI™ Union Item No.	A-LOK® Bulkhead Union Item No.	CPI™ Bulkhead Union Item No.	A-LOK® Tube Nut Item No.	CPI™ Tube Nut Item No.	CPI™ Ferrule Item No.	A-LOK® Front Ferrule Item No.	A-LOK® Back Ferrule Item No.	A-LOK® Plug Item No.	A-LOK® Cap Item No.
CA-360, QQ-B 626 Alloy 360, ASTM-B16 Alloy 360, CA-345, ASTM-B-453 Alloy 345											
¼"	1PZT3	1PZY6	1PZT7	1PZZ1	1WVH8	1WVJ3	1RAA5	1PZV1	1PZV5	4CXX5	4CXX9
⅜"	1PZT4	1PZY7	1PZT8	1PZZ2	1WVH9	1WVJ4	1RAA7	1PZV2	1PZV6	4CXY7	4CXY9
½"	1PZT5	1PZY8	1PZT9	1PZZ3	1WVJ1	1WVJ5	1RAA9	1PZV3	1PZV7	4EUD6	4EUD7
⅝"	1PZT6	1PZY9	1PZU1	1PZZ4	1WVJ2	1WVJ6	1RAC2	1PZV4	1PZV8	4EUE1	4EUE2
¾"	4EUF8	4CXH5	—	—	4EUF2	4CXG8	4CXG9	4EUF4	4EUF3	4EUF6	4EUF5
1"	4EUJ1	4CXJ8	—	—	—	4CXJ2	4CXJ3	4EUH2	4EUH1	4EUH4	4EUH3



Tube Size	Pipe Size - Pipe Fitting	Hex Size	CPI™ Flare Connector, 37° Item No.
CA-360, QQ-B 626 Alloy 360, ASTM-B16 Alloy 360, CA-345, ASTM-B-453 Alloy 345			
¼"	¼"	½"	4CXK5
¼" x ⅛"	¼"	½"	4CXK4
¼"	¼"	9⁄16"	4CXL1
⅜"	⅜"	⅝"	4CXK8
⅜"	⅜"	11⁄16"	4CXL2
½"	½"	13⁄16"	4CXK9
½"	½"	⅞"	4CXL3




Tube Size	A-LOK® Tube End Tube End Reducer Item No.	CPI™ Tube End Tube End Reducer Item No.	A-LOK® Reducing Union Item No.	CPI™ Reducing Union Item No.
CA-360, QQ-B 626 Alloy 360, ASTM-B16 Alloy 360, CA-345, ASTM-B-453 Alloy 345				
¼"	4CXX3	4CXE5	—	—
¼" x ⅜"	4CXY6	4CXF2	—	—
¼" x ⅛"	—	—	—	4CXE1
⅜" x ½"	4EUD5	4CXG2	—	—
⅜" x ¼"	—	—	4CXY2	4CXE7
½" x ¼"	—	—	4CXZ2	4CXF6
½" x ⅜"	—	—	4CXZ3	4CXF7
¾" x ½"	—	—	4EUG1	—

CONTINUED

CONTINUED

Brass Instrumentation Tube Fittings





Tube Size	A-LOK® Union Elbow Item No.	CPI™ Union Elbow Item No.	A-LOK® Union Tee Item No.	CPI™ Union Tee Item No.	A-LOK® Union Cross Item No.	CPI™ Union Cross Item No.
CA-377, QQ-B 626 Alloy 377, ASTM-B-124 Alloy 377, BS2872 CZ122						
¼"	1PZU2	1PZZ5	1PZU6	1PZZ9	4CXW7	4CXE2
⅜"	1PZU3	1PZZ6	1PZU7	1RAA1	4CXY3	4CXE8
½"	1PZU4	1PZZ7	1PZU8	1RAA2	—	—
⅝"	1PZU5	1PZZ8	1PZU9	1RAA3	—	—
¾"	4EUG4	4CXH2	4EUG7	4CXH6	—	—

Parker




Tube Size	Pipe Size - Pipe Fitting	A-LOK® Male Elbow, 90° Item No.	CPI™ Male Elbow, 90° Item No.	A-LOK® Male Branch Tee Item No.
CA-377, QQ-B 626 Alloy 377, ASTM-B-124 Alloy 377, BS2872 CZ122				
¼"	⅛"	1PZP9	1PZX3	—
	¼"	1PZR1	1PZX4	4CXX7
⅜"	¼"	1PZR2	1PZX5	—
	⅜"	1PZR3	1PZX6	4CXY8
½"	¼"	—	4CXF4	—
	½"	1PZR4	1PZX7	4EUD8
⅝"	⅜"	1PZR5	—	—
	½"	1PZR6	1PZX9	—
¾"	¾"	4EUG3	4CXH1	—
1"	1"	—	4CXJ4	—

Stainless Steel and Brass Instrumentation Ball Valves

Parker

- 6000 psi at 100°F
- Temp. range: -65° to 350°F ("B" Series); -54° to 400°F (Hi-Pro)

Have excellent low-temperature performance and quick ¼-turn On/Off control. Free-floating ball design extends seat life. Packing nut eases inline adjustment. Valves are panel-mountable, with fracture-resistant nylon handles. No. 4EUK3 meets ANSI/ASME B13.34 where applicable.







Tube Size	Stainless Steel B-Series - A-LOK® Item No.	Stainless Steel B-Series - CPI™ Item No.	Stainless Steel B-Series - FNPT Item No.	Brass B-Series - FNPT Item No.	Stainless Steel Hi Pro - FNPT Item No.
¼"	2KLA2	2KKZ8	2KLA5	2KLA8	—
⅜"	2KLA3	2KKZ9	2KLA6	2KLA9	—
½"	2KLA4	2KLA1	2KLA7	2KLC1	4EUK3

Tube Size	psig
⅛"	2500
¼"	2500
⅜"	3000
½"	2500


A-LOK® 1-Pc.
No. 1RCH7


A-LOK®
Inline, 1/4 Turn
No. 1RAY6


A-LOK®
3-Way
No. 1RAH7

Instrumentation Ball Valves, "MB" Series

Parker

- Factory preset to 1000 psig
- Temp. range: -65° to 300°F

Valves have a compact footprint and can be used for bidirectional flow; handle indicates flow direction. PFA seats and a 1-pc. packing provide a leaktight seal. Can be panel-mounted.

Tube Size	A-LOK® 1-Piece, Angle Mfr. Model	A-LOK® 1-Piece, Angle Item No.	A-LOK® 3-Way Mfr. Model	A-LOK® 3-Way Item No.	A-LOK® Inline, ¼ Turn Mfr. Model	A-LOK® Inline, ¼ Turn Item No.	CPI™ Inline, ¼ Turn Mfr. Model	CPI™ Inline, ¼ Turn Item No.	CPI™ 3-Way, ¼ Turn Mfr. Model	CPI™ 3-Way, ¼ Turn Item No.
316 Stainless Steel										
⅛"	—	—	2A-MB2XPFA-SSP	1RCJ6	2A-MB2LPFA-SSP	1RAY6	—	—	—	—
¼"	4A-MB4APFA-SSP	1RCH7	4A-MB4XPFA-SSP	1RCK1	4A-MB4LPFA-SSP	1RAY7	4Z-MB4LPFA-SSP	1WBL7	—	—
⅜"	—	—	6A-MB6XPFA-SSP	1RCK5	6A-MB6LPFA-SSP	1RAY8	6Z-MB6LPFA-SSP	1WBL9	6Z-MB6XPFA-SSP	1WBK2
½"	—	—	8A-MB8XPFA-SSP	1RCK9	8A-MB8LPFA-SSP	1RAY9	—	—	—	—

Tube Size	A-LOK® 3-Way Mfr. Model	A-LOK® 3-Way Item No.	A-LOK® Inline Mfr. Model	A-LOK® Inline Item No.	CPI™ 3-Way Mfr. Model	CPI™ 3-Way Item No.	CPI™ Angle Mfr. Model	CPI™ Angle Item No.	CPI™ Inline Mfr. Model	CPI™ Inline Item No.
Brass										
⅛"	2A-MB2XPFA-BP	1RAH7	2A-MB2LPFA-BP	1RAF6	2Z-MB2XPFA-BP	1RAK5	—	—	2Z-MB2LPFA-BP	1RAJ4
¼"	4A-MB4XPFA-BP	1RAH9	4A-MB4LPFA-BP	1RAF8	4Z-MB4XPFA-BP	1RAK7	4Z-MB6APFA-BP	1RAK1	4Z-MB4LPFA-BP	1RAJ6
⅜"	6A-MB6XPFA-BP	1RAJ2	6A-MB6LPFA-BP	1RAH1	6Z-MB6XPFA-BP	1RAK9	—	—	6Z-MB6LPFA-BP	1RAJ8


Toggle Handle
No. 3ZVU5


Locking Lever
No. 3ZVP7

Instrumentation Ball Valves

HAM-LET ADVANCED CONTROL TECHNOLOGY

- 1-pc., standard port

300 PSI CWP, FKM SEALS

- Temp. range: -40° to 400°F

Designed for normally closed and quick On/Off service. Moving handle 90° upward locks in open position. Moving handle 90° downward shuts off by spring return.

2000 PSI CWP, PTFE SEALS

- Temp. range: -40° to 400°F

Feature an explosionproof stem. Locking handle models can be locked in both On and Off positions. Tight shutoff and low operating torque.

6000 PSI CWP, PCTFE (KEL-F) SEALS

- Temp. range: -20° to 280°F

On/Off, straight-port valves have a 2-way pattern. 3-way valves can be used for diverter service. Tight shutoff and low operating torque.

Tube Size	Pipe Size	Body Style	Connec. Type	Body Material	Handle Type: Toggle Item No.	Handle Type: Locking Lever Item No.
300 psi CWP						
—	¼"	Angle	MNPT x MNPT	Brass	3ZVX3	—
—	¼"	Inline	MNPT x MNPT	316 SS	3ZVU5	—
—	¼"	Inline	MNPT x MNPT	Brass	3ZVX2	—
⅛"	—	Inline	Comp. x Comp.	316 SS	3ZVU1	—
¼"	—	Angle	Comp. x Comp.	316 SS	3ZVU3	—
¼"	—	Inline	Comp. x Comp.	316 SS	3ZVU2	—
¼"	—	Inline	Comp. x Comp.	Brass	3ZVU8	—
2000 psi CWP						
—	¼"	Inline	MNPT x Comp.	316 SS	—	3ZVR3
—	⅜"	Inline	MNPT x Comp.	316 SS	—	3ZVR4
—	½"	Inline	MNPT x Comp.	316 SS	—	3ZVR5
—	¾"	Inline	MNPT x Comp.	316 SS	—	3ZVR6
¼"	—	Inline	Comp. x Comp.	316 SS	—	3ZVP7
⅜"	—	Inline	Comp. x Comp.	316 SS	—	3ZVP8
½"	—	Inline	Comp. x Comp.	316 SS	—	3ZVP9
¾"	—	Inline	Comp. x Comp.	316 SS	—	3ZVR1
1"	—	Inline	Comp. x Comp.	316 SS	—	3ZVR2
6000 psi CWP						
⅛"	—	3-Way	Comp. x Comp. x Comp.	316 SS	3ZVT6	—
¼"	—	3-Way	Comp. x Comp. x Comp.	316 SS	3ZVT7	—
¼"	—	Inline	Comp. x Comp.	316 SS	3ZVT3	—
⅜"	⅜"	Inline	Comp. x Comp.	316 SS	3ZVT4	—



Instrumentation Check Valves, "C" Series

- 6000 psi at 115°F
- Cracking pressure: 1 psi
- Max. temp.: 400°F

Designed for unidirectional flow control. Custom-molded seat helps prevent blowouts. Fluorocarbon back-stopped poppet reduces spring stress. Valves offer heat code traceability for material certification. FNPT connections.

Size	Flow gpm @ 60°F w/1000 psig Inlet Press.	L	Item No.
¼"	2.4	2 13/32"	2KLD2
⅜"	7.1	3"	2KLD3
½"	11.2	3 9/16"	2KLD4

Instrumentation Plug Valves

- Max. pressure: 3000 psig CWP
- Temp. range: -10° to 450°F

¼-turn operation, compact, and blowout-resistant seat allows forward flow throttling. Handle indicates flow direction. Pressure rating is reduced to 150 psig when flow is opposite to the indicated direction. Fluorocarbon seats and seals. Compression connections. Meet ASTM A479 Type 316, except Brass meets ASTM B 16 Alloy C36000.


A-LOK® No. 1RBB7

Tube Size	Cv	Overall Length	316 Stainless Steel A-LOK® Item No.	316 Stainless Steel CPI® Item No.	Brass A-LOK® Item No.	Brass CPI® Item No.
¼"	1.24	2.18"	1RBB7	1RBC1	1RBC4	1RBC7
⅜"	3.19	2.66"	1RBB8	1RBC2	1RBC5	1RBC8
½"	3.19	2.88"	1RBB9	1RBC3	—	1RBC9

Instrumentation Needle Valves

STAINLESS STEEL, GLOBE-STYLE

- Max. pressure: 6000 psi

A self-centering nonrotating spindle tip provides bubble-tight shutoff; backstop spindle prevents blowout and minimizes atmospheric contamination. PTFE gland packing.

▶GENERAL-PURPOSE

Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals. Tested in accordance with ISA S75.02.

316 Stainless Steel—Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals.

- Max. pressure: 5000 psig CWP

Brass—Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals.

- Max. pressure: 3000 psig CWP

316 STAINLESS STEEL, HIGH-PURITY

- Max. pressure: 6000 psig CWP

Stem packing below power thread (PBT) prevents stem thread contamination and potential lubricant washout. 2-pc., nonrotating stem prevents stem-to-seat galling. PTFE seals. Meets ASTM A 182 Type F316.


No. 4EUJ9


No. 2KLC8


No. 1RAZ4

Tube Size	Pipe Size	Connection	Stem Type	Max. Flow	Max. Height	L	Stainless Steel Temp. Rating	Stainless Steel Item No.	316 Stainless Steel Temp. Rating	316 Stainless Steel Item No.	Brass Temp. Rating	Brass Item No.
Stainless Steel, Globe-Style												
—	¼"	FNPT	Stainless Steel	0.35 gpm	3⅛"	2⅛"	-65° to 450°F	4EUJ9	—	—	—	—
—	½"	FNPT	Stainless Steel	0.35 gpm	3⅛"	2½"	-65° to 450°F	4EUK1	—	—	—	—
General-Purpose												
⅛"	—	A-LOK®/Compression	Blunt	0.12 gpm	63/64"	2 1/64"	—	—	-65° to 450°F	1RAZ1	—	—
¼"	—	A-LOK®/Compression	Blunt	0.43 gpm	3 1/16"	2 5/16"	—	—	-65° to 450°F	1RAZ4	-65° to 400°F	1RBA7
—	¼"	FNPT	Blunt	0.73 gpm	3 35/64"	1⅞"	—	—	-65° to 450°F	2KLC2	-65° to 450°F	2KLC5
⅜"	—	A-LOK®/Compression	Blunt	0.73 gpm	3 35/64"	2 37/64"	—	—	-65° to 450°F	1RAZ7	-65° to 400°F	1RBB1
—	½"	FNPT	Blunt	1.23 gpm	4 17/64"	2 49/64"	—	—	-65° to 450°F	2KLC8	—	—
½"	—	A-LOK®/Compression	Blunt	1.23 gpm	4 3/16"	3 1/16"	—	—	—	—	-65° to 400°F	1RBB4
¼"	—	A-LOK®/Compression	Blunt Needle PCTFE	0.45 gpm	3 1/16"	2 5/16"	—	—	-65° to 450°F	1RAZ6	—	—
⅜"	⅜"	A-LOK®/Compression	Blunt Needle PCTFE	0.80 gpm	3 35/64"	2 37/64"	—	—	-65° to 450°F	1RAZ9	—	—
½"	—	A-LOK®/Compression	Blunt Needle PCTFE	1.29 gpm	4 3/16"	3 1/16"	—	—	-65° to 350°F	1RBA3	—	—
	¼"	FNPT	Needle	0.55 gpm	3 35/64"	1⅞"	—	—	-65° to 450°F	2KLC3	-65° to 450°F	2KLC6
	½"	FNPT	Needle	1.05 gpm	4 17/64"	2 49/64"	—	—	-65° to 450°F	2KLC9	—	—
—	¼"	FNPT	PCTFE	0.80 gpm	3 35/64"	1⅞"	—	—	-65° to 350°F	2KLC4	-65° to 350°F	2KLC7
	½"	FNPT	PCTFE	1.29 gpm	4 17/64"	2 49/64"	—	—	-65° to 350°F	2KLD1	—	—
¼"	—	A-LOK®/Compression	Regulating	0.43 gpm	3 1/16"	2 5/16"	—	—	-65° to 450°F	1RAZ5	-65° to 400°F	1RBA8
⅜"	—	A-LOK®/Compression	Regulating	0.55 gpm	3 35/64"	2 37/64"	—	—	-65° to 350°F	1RAZ8	—	—
½"	—	A-LOK®/Compression	Regulating	1.05 gpm	4 3/16"	3 1/16"	—	—	-65° to 450°F	1RBA2	—	—
316 Stainless Steel, High-Purity												
⅜"	—	A-LOK®/Compression	Blunt Needle PCTFE	0.51 gpm	3 21/32"	2 15/32"	—	—	-65° to 350°F	1RBW8	—	—

Nickel-Plated Brass Mini Ball Valves and Kits

GRAINGER APPROVED

- Temp. range: -20° to 370°F, except kits are -40° to 350°F

Ideal for use in tight spaces and can be used with air, gas, and liquids. Valve structure is 1-pc. and full port, except ½" are standard port. 450 psi CWP valves have polycarbonate wedge handles and can be panel mounted. 600 psi CWP valves have zinc, wedge handles. Kits Nos. 1PZA7 to 1PZB5 include wedge, lever, and T-style handles. Nos. 38EF92 to 38EF99 are lead free and certified for use with potable water and meet MSS SP-110.


No. 38EF84 (Valve Only)


No. 1PZA7 (Valve Kit)

Pipe Size	FNPT x FNPT (Valve Only) 450 psi CWP Item No.	FNPT x FNPT (Valve Only) 450 psi CWP Lead-Free Brass Item No.	FNPT x FNPT (Valve Only) 600 psi CWP Item No.	FNPT x MNPT (Valve Only) 450 psi CWP Item No.	FNPT x MNPT (Valve Only) 450 psi CWP Lead-Free Brass Item No.	FNPT x MNPT (Valve Only) 600 psi CWP Item No.	FNPT x FNPT (Valve Kit) 450 psi CWP Item No.	FNPT x MNPT (Valve Kit) 450 psi CWP Item No.
⅛"	38EF84	38EF92	—	38EF88	38EF96	38EG05	1PZA7	1PZB2
¼"	38EF85	38EF93	38EG02	38EF89	38EF97	38EG06	1PZA8	1PZB3
⅜"	38EF86	38EF94	38EG03	38EF90	38EF98	38EG07	1PZA9	1PZB4
½"	38EF87	38EF95	—	38EF91	38EF99	38EG08	1PZB1	1PZB5

GRAINGER APPROVED

Brass Mini Ball Valves

Feature PTFE seats and packing, a blowoutproof stem, and a steel lever handle. For use with water, oil, and gas.


No. 21VL78

No. 1WMN1

Pipe Size	Valve Structure	Port	Max. Pressure	Temp. Range	Lever FNPT x FNPT Item No.	Lever FNPT x MNPT Item No.	Lever Comp. x Comp. Item No.	Round FNPT x FNPT Item No.	Round MNPT x MNPT Item No.	Round Comp. x Comp. Item No.	Round FNPT x MNPT Item No.
⅛"	1-Pc.	Full	500 psi CWP	-35° to 300°F	21VL80	21VL78	—	—	—	—	—
	2-Pc.	Full	1000 psi CWP	-40° to 300°F	1WML2	1WML3	1WML4	1WMN2	1WMN1	—	—
¼"	1-Pc.	Std.	500 psi CWP	-35° to 300°F	21VL81	21VL79	—	—	—	—	—
	2-Pc.	Full	1000 psi CWP	-40° to 300°F	1WML6	1WML7	1WML8	1WMN6	1WMN5	1WMN8	1WMN7
⅜"	2-Pc.	Full	1000 psi CWP	-40° to 300°F	—	—	1WML9	—	—	1WMN9	—





Tube Size	Body Material	With Insulating Tee Handle Item No.
Press x Press		
Brass Stem		
¾"	Lead-Free Bronze	**36N597**

Tube Size	Body Material	With Lever Handle Item No.
Press x Press		
Lead-Free Brass Stem		
½"	Lead-Free Brass	**36N581**
¾"	Lead-Free Brass	**36N582**
1"	Lead-Free Brass	**36N583**
1¼"	Lead-Free Brass	**36N584**
1½"	Lead-Free Brass	**36N585**
2"	Lead-Free Brass	**36N586**
3"	Lead-Free Brass	**36N588**
4"	Lead-Free Brass	**36N589**
316 Stainless Steel Stem		
½"	Lead-Free Brass	**36N590**
¾"	Lead-Free Brass	**36N591**
2"	Lead-Free Brass	**36N595**

Lead-Free XPRESS® Forged Brass and Bronze Ball Valves

- Max. pressure: 250 psi
- Temp. range: 0° to 250°F

2-pc., full-port valves have press connections compatible with Rigid® press tools, and install in seconds. PTFE seats, plated brass ball, and Leak-Before-Press® feature.

Zero Lead Bronze Viega ProPress® Ball Valves

- Max. pressure: 250 psi
- Temp. range: 0° to 250°F

2-pc., full-port valves have silicon-bronze alloy body with innovative Viega Smart Connect® feature that allows installers to identify unpressed connections during pressure testing. Blowoutproof stem and 316 stainless steel ball.



Tube Size	Stem Material	FNPT x Press Item No.	Press x Press Item No.
½" x ½"	Lead Free Brass	**20XW58**	**20XW46**
½" x ½"	316 Stainless Steel	—	**20XW52**
¾" x ¾"	Lead Free Brass	**20XW59**	**20XW47**
¾" x ¾"	316 Stainless Steel	—	**20XW53**
1" x 1"	Lead Free Brass	**20XW60**	**20XW48**
1" x 1"	316 Stainless Steel	—	**20XW54**
1¼" x 1¼"	Lead Free Brass	—	**20XW49**
1¼" x 1¼"	316 Stainless Steel	—	**20XW55**

Bronze and Brass Viega ProPress® Ball Valves

- Max. pressure: 200 psi CWP
- Temp. range: 0° to 250°F

Install these 3-pc., full-port valves in seconds with flameless press technology that allows you to eliminate the need to sweat connections. The Viega Smart Connect® feature lets you identify unpressed connections during pressure testing. Blowoutproof stem and chrome-plated ball.



Tube Size	FNPT x Press Item No.	Press x Press Item No.
½" x ½"	**33KF40**	**33KF34**
¾" x ¾"	**33KF41**	**33KF35**
1" x 1"	**33KF42**	**33KF36**
1¼" x 1¼"	—	**33KF37**
1½" x 1½"	—	**33KF38**
2" x 2"	—	**33KF39**



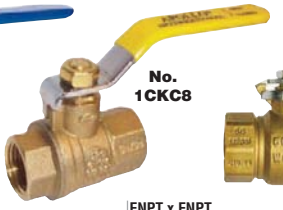
Zero Lead Bronze Viega ProPress® Check Valves

- Max. pressure: 200 psi
- Cracking pressure: 0.5 psi
- Temp. range: 0° to 180°F

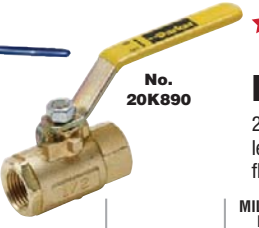
Viega Smart Connect® feature identifies unpressed connections. Zero-lead bronze body and POM bubble-tight check valve insert. EPDM sealing element. P x P connection.

Size	Item No.
½" x ½"	**5ULX8**
¾" x ¾"	**5ULX9**
1¼" x 1¼"	**5ULY1**
1½" x 1½"	**5ULY2**
2" x 2"	**5ULY3**









GA GRAINGER APPROVED

Brass Ball Valves

2-pc. valves have PTFE seats and packing, steel lever handle, and brass ball and stem. For use in flow control applications with water, oil, and gas.

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure	Temp. Range	FNPT x FNPT Item No.	
GA						
¼"	PTFE	CPB	600 psi CWP	0° to 350°F	**20K872**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K880**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K909**	
	PTFE	CPB	600 psi WOG	-40° to 365°F	**6GD11**	
	PTFE	Brass	900 psi CWP	0° to 400°F	**32H969**	*
⅜"	PTFE	CPB	600 psi CWP	-20° to 300°F	**6GD13**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K873**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K881**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K910**	
	PTFE	Brass	900 psi CWP	0° to 400°F	**32H971**	*
½"	PTFE	CPB	600 psi CWP	-20° to 300°F	**6GD14**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K874**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K882**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K911**	
	PTFE	Brass	900 psi CWP	0° to 400°F	**32H970**	*
¾"	PTFE	CPB	600 psi CWP	-20° to 300°F	**6GD15**	
	PTFE	Brass	600 psi CWP	0° to 400°F	**32H972**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K875**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K883**	*
1"	PTFE	CPB	600 psi CWP	-20° to 300°F	**6GD16**	
	PTFE	Brass	600 psi CWP	0° to 400°F	**32H973**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K876**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K884**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K912**	
1¼"	PTFE	304 SS	600 psi CWP	-20° to 300°F	**6GD17**	
	PTFE	Brass	600 psi CWP	0° to 400°F	**32H974**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K877**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K885**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K913**	

Pipe Size	Ball Material†	Max. Pressure psi CWP	Temp. Range	APOLLO FNPT x FNPT Item No.	MILWAUKEE VALVE FNPT x FNPT, Locking Lever, PTFE Body Seal Item No.	APOLLO Sweat x Sweat Item No.	MILWAUKEE VALVE Sweat x Sweat, Locking Lever, PTFE Body Seal Item No.
¼"	CPB	600	0° to 400°F	**1CKC8**	**3RCE6**	—	—
⅜"		600	0° to 400°F	**1CKC9**	**3RCE8**	—	—
½"		600	0° to 400°F	**1CKD1**	**3RCE7**	**1CKE1**	**3RCF7**
¾"		600	0° to 400°F	**1CKD2**	**3RCE9**	**1CKE2**	**3RCF8**
1"		600	0° to 400°F	**1CKD3**	**3RCF1**	**1CKE3**	**3RCF9**
1¼"		600	0° to 400°F	**1CKD4**	**3RCF2**	**1CKE4**	**3RCG1**
1½"		600	0° to 400°F	**1CKD5**	**3RCF3**	**1CKE5**	**3RCG2**
2"		600	0° to 400°F	**1CKD6**	**3RCF4**	**1CKE6**	**3RCG3**
2½"		400	0° to 400°F	**1CKD7**	—	**1CKE7**	—
2½"		600	0° to 400°F	—	**3RCF5**	—	**3RCG4**
3"		400	0° to 400°F	**1CKD8**	—	**1CKE8**	—
3"		600	0° to 400°F	—	**3RCF6**	—	**3RCG5**
4"		400	0° to 400°F	**1CKD9**	—	**1CKE9**	—

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure psi CWP	FNPT x FNPT, Vented Temp. Range	FNPT x FNPT, Vented Item No.	FNPT x MNPT Temp. Range	FNPT x MNPT Item No.	FNPT, Panel Mount Temp. Range	FNPT, Panel Mount Item No.	Sweat x Sweat Temp. Range	Sweat x Sweat Item No.
GA											
¼"	PTFE	CPB	300	0° to 350°F	**20K893** *	—	—	—	—	—	—
	PTFE	CPB	600	0° to 350°F	**20K890**	0° to 350°F	**20K898**	0° to 350°F	**20K904**	—	—
	PTFE	CPB	900	—	—	-40° to 400°F	**6GD21**	—	—	—	—
⅜"	PTFE	CPB	300	0° to 350°F	**20K894** *	—	—	—	—	—	—
	PTFE	CPB	600	0° to 350°F	**20K891**	0° to 350°F	**20K899**	—	—	—	—
	PTFE	CPB	900	—	—	-40° to 400°F	**6GD22**	—	—	—	—
½"	PTFE	CPB	300	0° to 350°F	**20K895** *	—	—	—	—	—	—
	PTFE	CPB	600	0° to 350°F	**20K892**	0° to 350°F	**20K901**	0° to 350°F	**20K906**	—	—
	PTFE	CPB	900	—	—	-40° to 400°F	**6GD23**	—	—	-40° to 400°F	**6GD26**

** = locking lever handle. † CPB = chrome-plated brass.*

CONTINUED

CONTINUED

Brass Ball Valves

GA GRAINGER APPROVED

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure	Temp. Range	FNPT x FNPT Item No.	
GA (Cont.)						
1½"	PTFE	304 SS	600 psi CWP	-20° to 300°F	**6GD18**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K878**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K886**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K914**	
	PTFE	Brass	600 psi WOG	0° to 400°F	**32H975**	*
2"	PTFE	CPB	600 psi CWP	0° to 350°F	**20K879**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K887**	*
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K915**	
	PTFE	Brass	600 psi WOG	0° to 400°F	**32H976**	*
	PTFE	304 SS	900 psi CWP	-20° to 300°F	**6GD19**	
2½"	PTFE	CPB	600 psi CWP	0° to 350°F	**20K916**	
	PTFE	Brass	600 psi WOG	0° to 400°F	**32H977**	*
	PTFE	CPB	900 psi CWP	-40° to 400°F	**6GD20**	
3"	PTFE	304 SS	600 psi CWP	-20° to 300°F	**6GD12**	
	PTFE	CPB	600 psi CWP	0° to 350°F	**20K917**	
	PTFE	Brass	600 psi WOG	0° to 400°F	**32H978**	*
4"	PTFE	CPB	600 psi CWP	-40° to 350°F	**1PYT2**	

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure psi CWP	FNPT x FNPT, Vented Temp. Range	Item No.	FNPT x MNPT Temp. Range	Item No.	FNPT x FNPT, Panel Mount Temp. Range	Item No.	Sweat x Sweat Temp. Range	Item No.
GA (Cont.)											
¾"	PTFE	CPB	300	0° to 350°F	**20K896** *	—	—	—	—	—	—
	PTFE	CPB	600	—	—	0° to 350°F	**20K902**	0° to 350°F	**20K907**	0° to 356°F	**6GD27**
	PTFE	CPB	900	—	—	-40° to 400°F	**6GD24**	—	—	—	—
1"	PTFE	CPB	300	0° to 350°F	**20K897** *	—	—	—	—	—	—
	PTFE	CPB	600	—	—	0° to 350°F	**20K903**	0° to 350°F	**20K908**	-20° to 300°F	**6GD28**
	PTFE	CPB	900	—	—	-40° to 400°F	**6GD25**	—	—	—	—
1¼"	PTFE	CPB	900	—	—	—	—	—	—	-40° to 400°F	**1PYP6**
1½"	—	CPB	900	—	—	—	—	—	—	-40° to 350°F	**1PYP7**
2"	—	CPB	600	—	—	—	—	—	—	-40° to 350°F	**1PYP8**
2½"	—	CPB	600	—	—	—	—	—	—	-40° to 350°F	**1PYP9**
3"	—	Forged Brass	150	—	—	—	—	—	—	-40° to 350°F	**1PYT1**

** = locking lever handle. † CPB = chrome-plated brass.*

Lead-Free Brass Ball Valves

- Max. pressure: 600 psi CWP, except 400 psi CWP (2½" to 4")

2-pc., full-port valves with PTFE seats and packing and brass stem. Milwaukee Valve items have combination stem extensions and memory stops available on Grainger.com®. All valves are certified for use in potable water applications.

Pipe Size	Ball Material*	FNPT x FNPT Temp. Range	Item No.	Sweat x Sweat Temp. Range	Item No.
Apollo, EPDM Body Seal					
½"	CPB	—	—	32° to 250°F	**20RE29**
¾"	CPB	—	—	32° to 250°F	**20RE30**
1"	CPB	—	—	32° to 250°F	**20RE31**
Apollo, PTFE Body Seal					
¼"	CPB	-20° to 450°F	**20RE06**	—	—
⅜"	CPB	-20° to 450°F	**20RE07**	—	—
½"	CPB	-20° to 450°F	**20RE08**	50° to 200°F	**20RE17**
¾"	CPB	-20° to 450°F	**20RE09**	50° to 200°F	**20RE18**
1"	CPB	-20° to 450°F	**20RE10**	50° to 200°F	**20RE19**
1¼"	316 SS	-20° to 366°F	**20RE11**	-20° to 366°F	**20RE20**
1½"	316 SS	-20° to 366°F	**20RE12**	-20° to 366°F	**20RE21**
2"	316 SS	-20° to 366°F	**20RE13**	-20° to 366°F	**20RE22**
2½"	316 SS	-20° to 366°F	**20RE14**	-20° to 366°F	**20RE23**
3"	316 SS	-20° to 366°F	**20RE15**	-20° to 366°F	**20RE24**
4"	316 SS	-20° to 366°F	**20RE16**	—	—

** SS = stainless steel. CPB = chrome-plated brass.*

Apollo Valves | GA GRAINGER APPROVED | MILWAUKEE VALVE

Pipe Size	Ball Material*	FNPT x FNPT Temp. Range	Item No.	Sweat x Sweat Temp. Range	Item No.
GA, PTFE Body Seal					
¼"	304 SS	0°F to 365°F	**32H994**	—	—
⅜"	304 SS	0°F to 365°F	**32H995**	—	—
½"	304 SS	-20° to 300°F	**32H996**	—	—
¾"	304 SS	-20° to 300°F	**32H997**	—	—
1"	304 SS	-20° to 300°F	**32H998**	—	—
1¼"	304 SS	-20° to 300°F	**32H999**	-20° to 300°F	**32J012**
1½"	304 SS	-20° to 300°F	**32J001**	-20° to 300°F	**32J013**
2"	304 SS	-20° to 300°F	**32J002**	0°F to 365°F	**32J014**
Milwaukee Valve, PTFE Body Seal					
¼"	CPB	Up to 180°F	**5EMR6**	—	—
⅜"	CPB	Up to 180°F	**5EMR7**	—	—
½"	CPB	Up to 180°F	**5EMR8**	Up to 180°F	**5EMT4**
¾"	CPB	Up to 180°F	**5EMR9**	Up to 180°F	**5EMT5**
1"	CPB	Up to 180°F	**5EMT0**	Up to 180°F	**5EMT6**
1¼"	CPB	Up to 180°F	**5EMT1**	Up to 180°F	**5EMT7**
1½"	CPB	Up to 180°F	**5EMT2**	Up to 180°F	**5EMT8**
2"	CPB	Up to 180°F	**5EMT3**	Up to 180°F	**5EMT9**

Pipe Size	Ball Material*	Temp. Range	FNPT x MNPT Item No.
GA, PTFE Body Seal			
½"	304 SS	-20° to 300°F	**32J015**
¾"			**32J016**
1"			**32J017**
2"		0°F to 365°F	**32J020**







Pipe Size	Connec. Type	Temp. Range	Max. Pressure	Item No.
Lever				
¼"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYT6**
	FNPT x FNPT x FNPT	-200° to 350°F	400 psi CWP	**20RH40**
	FNPT x MNPT	-40° to 400°F	900 psi CWP	**1PYX1**
	SAE Female	0° to 350°F	600 psi CWP	**20RH35**
⅜"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYT7**
	FNPT x FNPT x FNPT	-200° to 350°F	400 psi CWP	**20RH41**
	FNPT x MNPT	-40° to 400°F	900 psi CWP	**1PYX2**
	SAE Female	0° to 350°F	600 psi CWP	**20RH36**
½"	FNPT x FNPT	-40° to 400°F	900 psi CWP	**1PYT8**
	FNPT x FNPT x FNPT	-200° to 350°F	400 psi CWP	**20RH42**
	FNPT x MNPT	-40° to 400°F	900 psi CWP	**1PYX3**
	SAE Female	0° to 350°F	600 psi CWP	**20RH37**
¾"	FNPT x FNPT	-40° to 400°F	900 psi CWP	**1PYT9**
	FNPT x FNPT x FNPT	-200° to 350°F	400 psi CWP	**20RH43**
	FNPT x MNPT	-40° to 400°F	900 psi CWP	**1PYX4**
	SAE Female	0° to 350°F	600 psi CWP	**20RH38**
1"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYU1**
	FNPT x FNPT x FNPT	-200° to 350°F	400 psi CWP	**20RH44**
	FNPT x MNPT	-40° to 400°F	900 psi CWP	**1PYX5**
	SAE Female	0° to 350°F	600 psi CWP	**20RH39**
1¼"	FNPT x FNPT	-20° to 300°F	900 psi CWP	**1PYU2**
1½"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYU3**
2"	FNPT x FNPT	-20° to 300°F	900 psi CWP	**1PYU4**

GA GRAINGER APPROVED

Chrome-Plated Brass Ball Valves

- Max. steam pressure: 150 psi SWP
- Vacuum service to 27" Hg

2-pc. full-port valves with a vinyl grip and blowoutproof stem. PTFE seats.





Pipe Size	Connec. Type	Temp. Range	Max. Pressure	Item No.
Locking Lever				
¼"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYU8**
	FNPT x MNPT	0° to 350°F	600 psi CWP	**20RH16**
⅜"	FNPT x FNPT	-20° to 300°F	900 psi CWP	**1PYU9**
	FNPT x MNPT	0° to 350°F	600 psi CWP	**20RH17**
½"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYV1**
	FNPT x MNPT	0° to 350°F	600 psi CWP	**20RH18**
¾"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYV2**
1"	FNPT x FNPT	-20° to 300°F	600 psi CWP	**1PYV3**

Auto Safety Exhaust Brass Ball Valves

GA GRAINGER APPROVED

- Max. pressure: 300 psi CWP
- Temp. range: -40° to 350°F

2-pc., full-port valves also have a 5/16" safety exhaust port, PTFE seats, and FNPT connections. Relieve downstream pressure when in closed position. Exhaust port complies with OSHA requirements 1910.147.

Pipe Size	Item No.
¼"	**6GD06**
⅜"	**6GD07**
½"	**6GD08**
¾"	**6GD09**
1"	**6GD10**
1¼"	**1PYZ3**
1½"	**1PYZ4**
2"	**1PYZ5**



GA GRAINGER APPROVED

Brass Ball Valves, Full Port



- Max. pressure: 400 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: 0° to 356°F

2-pc. with PTFE seals, brass ball, FNPT connections, and blowoutproof brass stem.

Pipe Size	Brass Item No.	Nickel-Plated Brass Item No.
¼"	32J027	—
⅜"	32J028	—
½"	32J029	—
¾"	32J030	—
1"	32J031	32J042

BONOMI NORTH AMERICA, INC.

3-Way Brass Ball Valves—4-Pc.



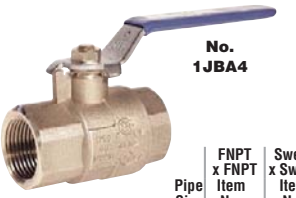
- Max. pressure: 400 psi CWP
- Max. steam pressure: 100 psi SWP
- Temp. range: -4° to 366°F

Feature 4-ball seats so that any port can be the pressurized inlet. PTFE seats with O-ring backing for low operating torque. Brass body, ball, FNPT connections, and brass blowoutproof stem. For a specific flow pattern, remove the handle and reorient the valve stem to the desired flow path, then reattach the handle. L Port models have a 90° flow pattern with off position. T Port models have a 90° and 180° flow path.

Pipe Size	Standard L Port Item No.	Standard T Port Item No.
¼"	46CE30	46CE38
⅜"	46CE31	46CE39
½"	46CE32	46CE40
¾"	46CE33	46CE41
1"	46CE34	46CE42
1¼"	46CE35	46CE43
1½"	46CE36	46CE44
2"	46CE37	46CE45

MILWAUKEE VALVE

Brass Ball Valves with Memory Stop Handle



- Max. pressure: 600 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: 0° to 350°F

Memory stop can be set to any preset opening point. 2-pc., full port. PTFE seats. Ideal for balancing HVAC systems in commercial and residential plumbing applications.

Pipe Size	FNPT x FNPT Item No.	Sweat x Sweat Item No.
¼"	1JBA4	—
⅜"	1JBA5	—
½"	1JBA6	3RCJ6
¾"	1JBA7	3RCJ7
1"	1JBA8	3RCJ8
1¼"	1JBA9	3RCJ9
1½"	1JBB1	3RCK1
2"	1JBB2	3RCK2

3-Way Brass Ball Valves

GA GRAINGER APPROVED



- Max. pressure: 600 psi CWP
- Max. steam pressure: 100 psi SWP
- Temp. range: -4° to 350°
- FNPT connections

3-way diversion valves with L flow pattern are ideal for tank selection and help simplify fluid transfers. The middle port is common and can divert to the left or right port. 2-pc., standard-port with PTFE seats, FNPT connections, brass body, chrome-plated brass ball and stem, and a steel lever handle with vinyl grip. Blowoutproof stem.

Pipe Size	Item No.
¼"	1PYZ8
⅜"	1PYZ9
½"	1PZA1
¾"	1PZA2
1"	1PZA3
1½"	1PZA5
2"	1PZA6



Brass Ball Valves with T-Handle

GA GRAINGER APPROVED

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -4° to 250°F

2-pc., full-port, brass-body valves have a twin-ear handle with shorter ears; ideal for use in tight spaces. With glass-filled PTFE seats, chrome-plated brass ball, blowoutproof brass stem, and glass-filled PTFE packing. Vacuum rated to 29" Hg.

Pipe Size	FNPT x FNPT Item No.	FNPT x MNPT Item No.
¼"	1WMG7	1WMH3
⅜"	1WMG8	1WMH4
½"	1WMG9	1WMH5
¾"	1WMH1	1WMH6
1"	1WMH2	—



Bronze and Lead-Free Bronze Ball Valves, Standard-Port

Apollo Valves

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F
- EZ-Solder® lead-free bronze

Heavy-duty cast bronze 2-pc. design with RPTFE seats (except Nos. 6KK47 to 6KK54 are PTFE), zinc-plated steel handle, blowoutproof, and adjustable packing gland. Vacuum service to 29" Hg. All models are for use in steam, water, oil, and gas systems in commercial and light industrial applications.

Pipe Size	FNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	FNPT x FNPT, Brass Stem, Lever Handle Item No.	FNPT x FNPT, Brass Stem, Locking Lever Handle Mfr. Model	FNPT x FNPT, Brass Stem, Locking Lever Handle Item No.	FNPT x MNPT, Brass Stem, Lever Handle Mfr. Model	FNPT x MNPT, Brass Stem, Lever Handle Item No.	MNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	MNPT x FNPT, Brass Stem, Lever Handle Item No.	Sweat x Sweat, Brass Stem, Lever Handle Mfr. Model	Sweat x Sweat, Brass Stem, Lever Handle Item No.
Bronze Body										
¼"	7010101	6KK47	7010127	2EEJ1	—	—	7080101	1MMP1 *	—	—
⅜"	7010201	6KK48	7010227	2EEJ2	7080201	1MMP2 *	—	—	—	—
½"	7010301	6KK49	7010327	2EEJ3	7080301	1MMP3 *	—	—	7020301	2EEH4
¾"	7010401	6KK50	7010427	2EEJ4	7080401	1MMP4 *	—	—	7020401	2EEH5
1"	7010501	6KK51	7010527	2EEJ5	7080501	1MMP5 *	—	—	7020501	2EEH6
1¼"	7010601	6KK52	7010627	2EEJ6	7080601	1MMP6 *	—	—	7020601	2EEH7
1½"	7010701	6KK53	7010727	2EEJ7	7080701	1MMP7 *	—	—	7020701	2EEH8
2"	7010801	6KK54	7010827	2EEJ8	—	—	—	—	7020801	2EEH9

Size	For Use With	Item No.
Stem Extension Kits		
¼"	Mfr. No. 94ALF-101-01A, 94ALF-102-01A	20VC37
½"	Mfr. No. 94ALF-103-01A, 94ALF-203-01A	20VC38
¾"	Mfr. No. 94ALF-104-01A, 94ALF-204-01A	20VC39
1"	Mfr. No. 94ALF-105-01A, 94ALF-205-01A	20VC40
1½"	Mfr. No. 94ALF-107-01A, 94ALF-108-01A, 94ALF-207-01A, 94ALF-208-01A	20VC42
2½"	Mfr. No. 94ALF-106-01A, 94ALF-206-01A	20VC41
2½"	Mfr. No. 94ALF-109-01A, 94ALF-100-01A, 94ALF-209-01A, 94ALF-200-01A	20VC43
4"	Mfr. No. 94ALF-10A-01A, 94ALF-20A-01A	20VC44

Pipe Size	FNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	FNPT x FNPT, Brass Stem, Lever Handle Item No.	FNPT x FNPT, 316 S.S. Stem, Lever Handle Mfr. Model	FNPT x FNPT, 316 S.S. Stem, Lever Handle Item No.	FNPT x FNPT, Brass Stem, Locking Lever Handle Mfr. Model	FNPT x FNPT, Brass Stem, Locking Lever Handle Item No.	FNPT x MNPT, Brass Stem, Lever Handle Mfr. Model	FNPT x MNPT, Brass Stem, Lever Handle Item No.	Sweat x Sweat, Brass Stem, Lever Handle Mfr. Model	Sweat x Sweat, Brass Stem, Lever Handle Item No.	Sweat x Sweat, 316 S.S. Stem, Lever Handle Mfr. Model	Sweat x Sweat, 316 S.S. Stem, Lever Handle Item No.
Lead-Free Bronze Body												
¼"	70LF-101-01	5FVZ7 *	70LF14101	40D895	70LF10127	31EE47 *	—	—	—	—	—	—
⅜"	70LF10210	31EE48 *	70LF14201	40D896	—	—	—	—	70LF-202-01	5FWA5 *	70LF24201	40D912
	70LF-102-01	5FVZ8 *	—	—	—	—	—	—	—	—	—	—
½"	70LF10310	31EE50 *	70LF14301	40D897	70LF10327	31EE51 *	70LF80301	31EE60 *	70LF-203-01	5FWA6 *	70LF24301	40D913
	70LF-103-01	5FVZ9 *	—	—	—	—	—	—	—	—	—	—
¾"	70LF10410	31EE52 *	70LF14401	40D898	70LF10427	31EE53 *	70LF80401	31EE61 *	70LF-204-01	5FWA7 *	70LF24401	40D914
	70LF-104-01	5FWA0 *	—	—	—	—	—	—	—	—	—	—
1"	70LF-105-01	5FWA1 *	—	—	70LF10527	31EE55 *	—	—	—	—	—	—
	70LF10510	31EE54 *	70LF14501	40D899	70LF10627	31EE56 *	70LF80501	31EE62 *	70LF-205-01	5FWA8 *	70LF24501	40D915
1¼"	70LF-106-01	5FWA2 *	70LF14601	40D901	—	—	—	—	70LF-206-01	5FWA9 *	70LF24601	40D916
1½"	70LF-107-01	5FWA3 *	70LF14701	40D902	70LF10727	31EE57 *	—	—	70LF-207-01	5FWC0 *	70LF24701	40D917
2"	70LF10810	31EE58 *	70LF14801	40D903	70LF10827	31EE59 *	—	—	70LF-208-01	5FWC1 *	70LF24801	40D918
	70LF-108-01	5FWA4 *	—	—	—	—	—	—	—	—	—	—
2½"	70LF10901	40D892 *	70LF14901	40D904	—	—	—	—	70LF209 01	40D909 *	70LF24901	40D919
3"	70LF10001	40D889 *	70LF14001	40D894	—	—	—	—	70LF20001	40D906 *	70LF24001	40D911
4"	70LF10A01	40D893 *	70LF14A01	40D905	—	—	—	—	70LF20A01	40D910 *	70LF24A01	40D920

** Chrome-plated brass ball.*

Bronze and Lead-Free Bronze Ball Valves, Full-Port

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F, except Nos. 2EEJ9, 2EEK1 to 2EEK9, and 2EEL3 are 77° to 500°F

2-pc. valves have RPTFE seats and solid-ball design, blowoutproof stem, and adjustable packing gland. Brass ball, except Nos. 2EEJ9 to 2EEL3 are bronze, Nos. 48XJ15 to 48XJ29 are 316 stainless steel. All valves are for use with water, oil, gas, and steam. Meet MSS-SP-110.


No. 2EEJ9

For Use With	Item No.
Stem Extension Kit	
Mfr. No. 77C ¼ and ½"	1RWL2
Mfr. No. 77C ¾" and 1"	1RWK9
Mfr. No. 77C 1¼ to 2"	1RWL1

Pipe Size	Bronze Body, Brass Stem, Lever Handle Mfr. Model	Item No.	Bronze Body, Brass Stem, Lever Handle w/Mounting Pads Mfr. Model	Item No.	Bronze Body, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body 316 Stainless Steel Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body Lead Free Brass Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body Lead Free Brass Stem, Locking Lever Handle Mfr. Model	Item No.
FNPT x FNPT												
¼"	77C10101A	48XH87	7710101	2EEJ9	77C10127A	48XH88	77CLF14101A	48XJ15	77CLF10101A	48XH93	77CLF10127A	48XJ32
⅜"	77C10201A	48XH89	7710201	2EEK1	77C10227A	48XH90	77CLF14201A	48XJ16	77CLF10201A	48XH94	77CLF10227A	48XJ33
½"	77C10301A	48XH83	7710301	2EEK2	77C10327A	48XH84	77CLF14301A	48XJ17	77CLF10301A	48XH95	77CLF10327A	48XJ34
¾"	77C10401A	48XH63	7710401	2EEK3	77C10427A	48XH64	77CLF14401A	48XJ18	77CLF10401A	48XH96	77CLF10427A	48XJ30
1"	77C10501A	48XH67	7710501	2EEK4	77C10527A	48XH68	77CLF14501A	48XJ19	77CLF10501A	48XH97	77CLF10527A	48XJ31
1¼"	77C10601A	48XH79	7710601	2EEK5	77C10627A	48XH81	77CLF14601A	48XJ20	77CLF10601A	48XH98	77CLF10627A	48XJ35
1½"	77C10701A	48XH75	7710701	2EEK6	77C10727A	48XH76	77CLF14701A	48XJ21	77CLF10701A	48XH99	77CLF10727A	48XJ37
2"	77C10801A	48XH71	7710801	2EEK7	77C10827A	48XH72	77CLF14801A	48XJ22	77CLF10801A	48XJ01	77CLF10827A	48XJ36

Pipe Size	Bronze Body, Brass Stem, Lever Handle Mfr. Model	Item No.	Bronze Body, Brass Stem, Lever Handle w/Mounting Pads Mfr. Model	Item No.	Bronze Body, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, 316 Stainless Steel Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, Lead Free Brass Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, Lead Free Brass Stem, Locking Lever Handle Mfr. Model	Item No.
Sweat x Sweat												
⅜"	77C20201A	48XH91	—	—	77C20227A	48XH92	77CLF24201A	48XJ23	77CLF20201A	48XJ02	—	—
½"	77C20301A	48XH85	—	—	77C20327A	48XH86	77CLF24301A	48XJ24	77CLF20301A	48XJ03	77CLF20327A	48XJ09
¾"	77C20401A	48XH65	7720401	2EEK8	77C20427A	48XH66	77CLF24401A	48XJ25	77CLF20401A	48XJ04	77CLF20427A	48XJ10
1"	77C20501A	48XH69	7720501	2EEK9	77C20527A	48XH70	77CLF24501A	48XJ26	77CLF20501A	48XJ05	77CLF20527A	48XJ11
1¼"	77C20601A	48XH80	—	—	77C20627A	48XH82	77CLF24601A	48XJ27	77CLF20601A	48XJ06	77CLF20627A	48XJ12
1½"	77C20701A	48XH77	—	—	77C20727A	48XH78	77CLF24701A	48XJ28	77CLF20701A	48XJ07	77CLF20727A	48XJ13
2"	77C20801A	48XH73	7720801	2EEL3	77C20827A	48XH74	77CLF24801A	48XJ29	77CLF20801A	48XJ08	77CLF20827A	48XJ14

Cast-Bronze Ball Valves, Full-Port

- Max. pressure: 600 psi; 150 psi steam
- Temp. range: -20° to 400°F

2-pc. design provides bubble-tight shutoff and features reinforced PTFE seat ring, blowoutproof silicon bronze stem, and high chemical resistance. Valves are suitable for high-pressure applications including compressed air, hot and cold domestic water, HVAC, and low-pressure steam. Meet MSS-SP-110, except Nos. 41E357 to 41E359.


No. 41E349

Pipe Size	Ball Material*	Stem Material	Handle Type	Max. Pressure (psi CWP)	Mfr. Model	Item No.
FNPT x FNPT						
¼"	316 SS	316 SS	Lever	600	T5857066 ¼	41E373
	CPB	Silicon Bronze	Lever	600	T58570 ¼	41E349
⅜"	316 SS	316 SS	Lever	600	T5857066 ⅜	41E374
	CPB	Silicon Bronze	Lever	600	T58570 ⅜	41E350
½"	316 SS	316 SS	Lever	600	T5857066 ½	41E375
	CPB	Silicon Bronze	Lever	250	T58570UL ½	41E357
	CPB	Silicon Bronze	Lever	600	T58570 ½	41E351
	CPB	Silicon Bronze	Nib-Seal®	600	T58570NS ½	41E362
	CPB	Silicon Bronze	Locking Lever	600	T58570LL ½	41E364
¾"	316 SS	316 SS	Lever	600	T5857066 ¾	41E376
	CPB	Silicon Bronze	Lever	250	T58570UL ¾	41E358
	CPB	Silicon Bronze	Lever	600	T58570 ¾	41E352
	CPB	Silicon Bronze	Nib-Seal®	600	T58570NS ¾	41E363
	CPB	Silicon Bronze	Locking Lever	600	T58570LL ¾	41E365
1"	316 SS	316 SS	Lever	600	T5857066 1	41E377
	CPB	Silicon Bronze	Lever	250	T58570UL 1	41E359
	CPB	Silicon Bronze	Lever	600	T58570 1	41E353
	CPB	Silicon Bronze	Locking Lever	600	T58570LL 1	41E366
1¼"	316 SS	316 SS	Lever	600	T5857066 1-¼	41E378
	CPB	Silicon Bronze	Lever	600	T58570 1-¼	41E354
1½"	316 SS	316 SS	Lever	600	T5857066 1-½	41E379
	CPB	Silicon Bronze	Lever	600	T58570 1-½	41E355
2"	316 SS	316 SS	Lever	600	T5857066 2	41E380
	CPB	Silicon Bronze	Lever	600	T58570 2	41E356

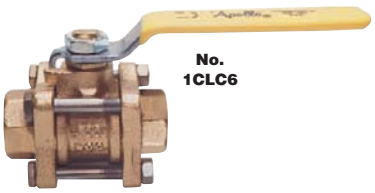
Pipe Size	Ball Material*	Stem Material	Handle Type	Max. Pressure (psi CWP)	Mfr. Model	Item No.
FNPT x Hose Cap						
½"	316 SS	316 SS	Lever	600	T5857066HC ½	41E385
	CPB	Silicon Bronze	Lever	600	T58570HC ½	41E383
¾"	316 SS	316 SS	Lever	600	T5857066HC ¾	41E386
	CPB	Silicon Bronze	Lever	600	T58570HC ¾	41E384
Sweat x Sweat						
¼"	CPB	Silicon Bronze	Lever	600	S58570 ¼	41E342
½"	316 SS	316 SS	Lever	600	S5857066 ½	41E367
	CPB	Silicon Bronze	Lever	600	S58570 ½	41E343
¾"	316 SS	316 SS	Lever	600	S5857066 ¾	41E368
	CPB	Silicon Bronze	Lever	600	S58570 ¾	41E344
1"	316 SS	316 SS	Lever	600	S5857066 1	41E369
	CPB	Silicon Bronze	Lever	600	S58570 1	41E345
1¼"	CPB	Silicon Bronze	Lever	600	S58570 1-¼	41E346
1½"	CPB	Silicon Bronze	Lever	600	S58570 1-½	41E347
2"	316 SS	316 SS	Lever	600	S5857066 2	41E372
	CPB	Silicon Bronze	Lever	600	S58570 2	41E348

** CPB = chrome-plated brass.*

Bronze 3-Pc. Ball Valves, Full-Port

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F

With RPTFE seats and seals. Chrome-plated ball and blowoutproof stem with adjustable packing gland on chevron stem packing. For use with water, oil, gas, and low-pressure steam. Meet MSS-SP-110.


No. 1CLC6

Pipe Size	FNPT x FNPT Mfr. Model	FNPT x FNPT Item No.	Sweat x Sweat Mfr. Model	Sweat x Sweat Item No.
¼"	8210101	1CLC6	—	—
½"	8210301	1CLC8	8220301	1CLD9
¾"	8210401	1CLC9	8220401	1CLE1
1"	8210501	1CLD1	8220501	1CLE2
1¼"	8210601	1CLD2	8220601	1CLE3
1½"	8210701	1CLD3	—	—
2"	8210801	1CLD4	—	—

Bronze Ball Valves with Steam Trim

- Max. pressure: 600 psi CWP; 250 psi SWP
- Temp. range: -20° to 500°F

2-pc., standard-port industrial valves have MPTFE seats and a stainless steel ball with vented ball slot to relieve thermal expansion in valve body cavity. With blowoutproof stem, MPTFE stem packing, and adjustable packing gland. FNPT connections. For use with high-pressure water, oil, gas, and steam. Meet MSS-SP-110.


No. 5MU10

Pipe Size	Mfr. Model	Item No.
¼"	7014164	5MU10
⅜"	7014264	5MU28
½"	7014364	5MU29
¾"	7014464	5MU30
1"	7014564	5MU31
1¼"	7014664	5MU32
1½"	7014764	5MU33
2"	7014864	5MU34



Apollo Valves

Pad Locking Bronze Ball Valves

- Max. pressure: 600 psi CWP; 150 psi saturated steam
- Temp. range: -20° to 450°F

2-pc. valves may be padlocked in open or closed position with no change in hardware. RPTFE seats, chrome-plated brass ball, and brass stem. Vacuum service to 29" Hg. FNPT connections. Meet MSS-SP-110 and ASTM B16.

Pipe Size	Mfr. Model	Item No.
¼"	75-101-01	**6FXY8**
⅜"	75-102-01	**6FXY9**
½"	75-103-01	**6FXZ0**
¾"	75-104-01	**6FXZ1**
1"	75-105-01	**6FXZ2**
1¼"	75-106-01	**6FXZ3**
1½"	75-107-01	**6FXZ4**
2"	75-108-01	**6FXZ5**

Bronze Ball Valves with SAE and Union Connections

Apollo Valves



- Max. pressure: 600 psi CWP
- Temp. range: -20° to 450°F

With RPTFE seats and blowoutproof stem with adjustable packing gland. Meet MSS-SP-110.

SAE FEMALE

2-pc., full-port valves are machined to accept an O-ring boss connection. Drilled and tapped pad allows easy panel mounting.

FNPT UNION X FNPT BALL VALVE

Pipe union permits quick installation and arrangement changes. Standard-port with Viton® O-ring.

Pipe Size	SAE FEMALE Mfr. Model	SAE FEMALE Item No.	FNPT UNION x FNPT BALL VALVE Mfr. Model	FNPT UNION x FNPT BALL VALVE Item No.
¼"	—	—	7030101	**1CKG8**
⅜"	7790201	**1CKJ6**	7030201	**1CKG9**
½"	7790301	**1CKJ7**	7030301	**1CKH1**
¾"	7790401	**1CKJ8**	7030401	**1CKH2**
1"	7790501	**1CKJ9**	7030501	**1CKH3**
1¼"	7790601	**1CKK1**	7030601	**1CKH4**
1½"	7790701	**1CKK2**	7030701	**1CKH5**
2"	7790801	**1CKK3**	7030801	**1CKH6**

3-Way Bronze Ball Diverter Valves

Apollo Valves



- Max. pressure: 400 psi CWP
- Temp. range: -20° to 450°F

Combine the features of two 2-way valves—larger ports simplify tank selection and fluid transfer. Drilled and tapped for panel mounting. L-port with RPTFE seats and blowoutproof stem with adjustable packing gland. FNPT connections. Meet MSS-SP-110.

Pipe Size	Mfr. Model	Item No.
¼"	7060101	**1CKF9**
⅜"	7060201	**1CKG1**
½"	7060301	**1CKG2**
¾"	7060401	**1CKG3**
1"	7060501	**1CKG4**
1¼"	7060601	**1CKG5**
1½"	7060701	**1CKG6**
2"	7060801	**1CKG7**

Apollo Valves

Bronze Ball Valves with Auto Drain



- Max. pressure: 600 psi CWP, 150 psi SWP
- Temp. range: -20° to 450°F, except Pad Locking Lever models are 50° to 200°F

Standard-port valves have 2-pc. B584 bronze body with B16 brass retainer and RPTFE reinforced seats. Blowoutproof stem design with adjustable packing gland and automatic drain. Handle is zinc-plated steel. FNPT connections. Meet MSS SP-110 and ASTM B16, except Nos. 5LXU0 to 5LXU7 only meet ASTM B16.

Pipe Size	Lever Mfr. Model	Lever Item No.	Pad Locking Lever Mfr. Model	Pad Locking Lever Item No.	Locking Lever Mfr. Model	Locking Lever Item No.
¼"	70-101-41	**6FXY0**	75-101-41	**6FXZ6**	701012741	**5LXU0**
⅜"	70-102-41	**6FXY1**	75-102-41	**6FXZ7**	701022741	**5LXU1**
½"	70-103-41	**6FXY2**	75-103-41	**6FXZ8**	701032741	**5LXU2**
¾"	70-104-41	**6FXY3**	75-104-41	**6FXZ9**	701042741	**5LXU3**
1"	70-105-41	**6FXY4**	75-105-41	**6FYA0**	701052741	**5LXU4**
1¼"	70-106-41	**6FXY5**	—	—	—	—
1½"	70-107-41	**6FXY6**	75-107-41	**6FYA2**	701072741	**5LXU6**
2"	70-108-41	**6FXY7**	75-108-41	**6FYA3**	701082741	**5LXU7**

Apollo Valves

Gas Shutoff Bronze Ball Valves



- Max. pressure: 600 psi CWP; 250 psig for LP gas
- Temp. range: -20° to 450°F

Standard-port valves have RPTFE seats and meet stringent standards for a variety of gas shutoff applications, including flammable gases. Blowoutproof stem with adjustable packing gland. FNPT connections. Meet MSS-SP-110; UL Listed for LP, natural gas, heated oils, and flammable liquids.

Pipe Size	Mfr. Model	Item No.
½"	8010301	**1CKH7**
¾"	8010401	**1CKH8**
1"	8010501	**1CKH9**
1¼"	8010601	**1CKJ1**
1½"	8010701	**1CKJ2**
2"	8010801	**1CKJ3**
2½"	8010901	**1CKJ4**
3"	8010001	**1CKJ5**

Apollo Valves

Marine Service Bronze Ball Valves



- Max. pressure: 600 psi CWP
- Temp. range: 0° to 450°F
- Stainless steel lever and stem nut

2-pc. standard-port valves have bronze body, RPTFE seats, chrome-plated ball, blowoutproof stem, and RPTFE stem and packing. Adjustable packing gland and FNPT connections. Meet WW-V-35C, Type: II, Composition: BZ, Style: 3, and MSS SP-110.

Pipe Size	Mfr. Model	Item No.
¼"	7010110	**1DZJ5**
⅜"	7010210	**1DZJ6**
½"	7010310	**1DZH6**
¾"	7010410	**1DZH7**
1"	7010510	**1DZH8**
1¼"	7010610	**1DZH9**
1½"	7010710	**1DZJ1**
2"	7010810	**1DZJ2**
2½"	7010910A	**1DZJ3**
3"	7010010	**1DZJ4**

Ball Valves with Spring Return Handle

Standard-port valves have a blowoutproof stem and adjustable packing gland. FNPT connections. Meet MSS-SP-110.

BRONZE

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 500°F

2-pc. valves have MPTFE seats. Stainless steel lever components.

316 STAINLESS STEEL

- Max. pressure: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" to 2"); 150 psi SWP
- Temp. range: -50° to 500°F

Stainless steel ball, with PTFE seats and seals.

CARBON STEEL

- Rated: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" and up)
- Temp. range: -20° to 500°F

2-pc. investment-cast valves have zinc-phosphate coating; slot-vented chrome-plated ball relieves thermal expansion. Stainless steel stem and multifill PTFE seats. Vacuum service to 29" Hg.



Apollo Valves

Pipe Size	Body Material: Bronze Item No.	Body Material: 316 Stainless Steel Item No.	Body Material: Carbon Steel Item No.
¼"	**1CKF1**	**3EEZ3**	—
⅜"	**1CKF2**	**3EEZ4**	—
½"	**1CKF3**	**3EEZ5**	**1CKN4**
¾"	**1CKF4**	**3EEZ6**	**1CKN5**
1"	**1CKF5**	**3EEZ7**	**1CKN6**
1¼"	**1CKF6**	—	**1CKN7**
1½"	**1CKF7**	**3EEZ9**	**1CKN8**
2"	**1CKF8**	**3EFA1**	**1CKN9**

GA GRAINGER APPROVED

316 Stainless Steel Ball Valves with Handle Options

- Temp. range: -25° to 450°F, except Nos. 20XL93 to 20XL98 are -20° to 425°F

Stainless steel handle with vinyl grip. Bottom-loaded stem resists blowout. FNPT connections. Vacuum service to 29" Hg. 2-pc. construction and PTFE seats. Suitable for use with water, oil, and gas in most corrosive industrial environments.





Pipe Size	Full Port 600 psi CWP Lever Handle Item No.	Full Port 1000 psi CWP Locking Lever Handle Item No.	Full Port 1000 psi CWP Locking Oval Handle Item No.	Standard Port 2000 psi Locking Lever Handle Item No.	Standard Port 2000 psi CWP Locking Lever Handle Item No.
¼"	—	1WMX9	—	—	1WMZ1
⅜"	—	1WMY1	1WNA1	—	1WMZ2
½"	20XL93	1WMY2	1WNA2	1WMZ3	—
¾"	20XL94	1WMY3	—	1WMZ4	—
1"	20XL95	1WMY4	—	—	1WMZ5
1¼"	20XL96	1WMY5	—	—	1WMZ6
1½"	20XL97	1WMY6	1WNA6	—	1WMZ7
2"	20XL98	1WMY7	1WNA7	—	1WMZ8
2½"	—	1WMY8	—	—	—
3"	—	1WMY9	—	—	—

"Apollo" Valves

316 Stainless Steel Ball Valves



- Rated: 2000 psi CWP up to 1"; 1500 psi CWP 1¼" and up; 150 psi SWP
- Temp. range: -50° to 450°F

Valves with investment-cast stainless steel components meet the most demanding industrial applications. Integral mounting pad with drilled and tapped holes, locking handles, and blowoutproof stem with adjustable packing gland. 2-pc., standard port valves with RPTFE seats, and FNPT connections. Vacuum service to 29" Hg. For use with water, oil, gas, and low-pressure steam in most corrosive industrial environments. Meet MSS-SP-110.

Pipe Size	Item No.
¼"	1CKR6
⅜"	1CKR7
½"	1CKR8
¾"	1CKR9
1"	1CKT1
1¼"	1CKT2
1½"	1CKT3
2"	1CKT4





GA GRAINGER APPROVED

316 Stainless Steel Panel Mount Ball Valves

- Rated: 2000 psi CWP up to 1"; 1500 psi 1¼" and up; 150 psi SWP
- Temp. range: 0° to 400°F

Viton® seals and stainless steel handle. Meet ANSI B1.20.1.

Pipe Size	FNPT x FNPT Lever Handle Item No.	FNPT x FNPT Locking Lever Handle Item No.	FNPT x MNPT Lever Handle Item No.
¼"	20K938	20K953	20K932
⅜"	20K941	20K954	20K933
½"	20K944	20K955	20K934
½"	—	—	20K937
¾"	20K947	20K956	20K935
1"	20K948	20K957	20K936
1¼"	20K950	—	—
1½"	20K951	20K959	—
2"	20K952	—	—

Flanged Ball Valves

- Temp. range: 0° to 500°F
- Class 150 flanges

2-pc., full port valves with TFM™ seats and flanged connections. Locking handles. Vacuum service to 29" Hg. Meet ASME B16.34.

316 STAINLESS STEEL

- Rated: 275 psi CWP; 150 psi SWP

Adjustable stem self-compensates for wear, temperature, and pressure. For use with hydraulics, vacuum, chemicals, oil, gas, and low-pressure steam applications.

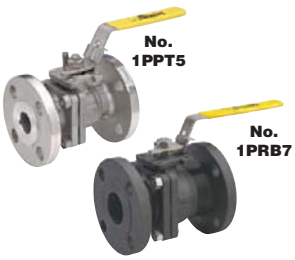
CARBON STEEL

- Rated: 285 psi CWP

Carbon steel body and 316 stainless steel ball and stem. For use with hydraulics, vacuum, oil, and low-pressure steam in noncorrosive environments.

GA GRAINGER APPROVED

Pipe Size	Body Material 316 Stainless Steel Item No.	Body Material Carbon Steel Item No.
1"	1PPT5	—
1½"	1PPT6	1PRB7
2"	1PPT7	1PRB8
3"	1PPT8	1PRB9
4"	1PPT9	1PRC1



GA GRAINGER APPROVED

MILWAUKEE VALVE

Fire-Safe Stainless Steel Ball Valves

- Max. pressure: 2000 psi CWP
- Temp. range: -20° to 450°F

Unibody design without endpiece allows safe removal without exposure to a potentially dangerous pressure release. RPTFE seats and FNPT connections. Meet ASME B16.34, except GA models also meet API 607.



Pipe Size	GA, Full Port Item No.	GA, Standard Port Item No.	Milwaukee Valve, Standard Port Item No.
¼"	32H979	—	1JBW1
⅜"	32H980	—	1JBW2
½"	—	32H981	1JBW3
¾"	—	32H982	1JBW4
1"	—	32H983	1JBW5
1¼"	—	32H984	1JBW6
1½"	—	32H985	1JBW7
2"	—	32H986	1JBW8

GA GRAINGER APPROVED

MILWAUKEE VALVE

3-Way Diverter Stainless Steel Ball Valves



- Max. pressure: 1000 psi CWP
- Temp. range: -20° to 450°F

Use to isolate process or control flow in industrial corrosive applications. 2-pc. valves with RPTFE seats and body seals. FNPT connections and blowoutproof stainless steel stem. Meet ASTM A351.

Pipe Size	GA, Standard Port Item No.	Milwaukee Valve, Standard L Port Item No.
⅜"	—	1JBZ8
½"	—	1JBZ9
¾"	—	1JCL1
1"	32H990	1JCL2
1¼"	—	1JCL3
1½"	—	1JCL4
2"	—	1JCL5

GA GRAINGER APPROVED

2- and 3-Pc. Stainless and Carbon Steel Ball Valves

Handle can be locked in open or closed position. PTFE body seals. Vacuum service to 29" Hg.

2-PC. BALL VALVES
- Rated: 6000 psi CWP
- Temp. range: 0° to 200°F

Delrin® seats.

3-PC. BALL VALVES
- Rated: 1000 psi CWP (¼" to 2"); 600 psi CWP (2½" to 4")
- Temp. range: 0° to 450°F

Full-port valves with RTFE glass-reinforced seats. Blowoutproof stem.





316 STAINLESS STEEL
For use with hydraulics, vacuum, chemicals, oil, gas, and low-pressure steam in corrosive environments. Meet ASTM A351 CF8M.

CARBON STEEL
Carbon steel body with 316 stainless steel ball and stem (17-4 PH stem for 2-pc. valves). All valves are for use with hydraulics, oils, and low-pressure steam in medium-pressure applications. Meet ASTM A216 WCB.

Pipe Size	FNPT x FNPT 316 Stainless Steel Item No.	FNPT x FNPT Carbon Steel Item No.	Socket x Socket 316 Stainless Steel Item No.	Socket x Socket Carbon Steel Item No.
2-Piece				
⅜"	5DYG2			
½"	5DYG3			
¾"	5DYG4			
3-Piece				
¼"	3CFU8	—	3CFW1	—
⅜"	3CFU9	—	3CFW2	—
½"	3CFV1	3CFX5	3CFW3	3CFY7
¾"	3CFV2	3CFX6	3CFW4	3CFY8
1"	3CFV3	3CFX7	3CFW5	3CFY9
1¼"	3CFV4	—	3CFW6	—
1½"	3CFV5	—	3CFW7	3CFZ2
2"	3CFV6	3CFY1	3CFW8	3CFZ3
2½"	3CFV7	—	—	—
3"	3CFV8	—	—	—
4"	3CFV9	—	—	—

GA GRAINGER APPROVED

Apollo® Valves

Low-Pressure Carbon Steel Ball Valves

FNPT connections.



GA 1-PC. DESIGN
- Max. pressure: 2000 psi CWP (to 1"); 1500 psi (1¼" and up); 150 psi SWP
- Temp. range: -20° to 425°F

PTFE seats; 202 stainless steel handle. For use in abrasive air or liquid applications. Meet ASTM.

GA 2-PC. DESIGN
- Max. pressure: 3000 psi CWP, 150 psi SWP
- Temp. range: -20° to 425°F

RPTFE seats; lever handle with blowoutproof stem. For use with petroleum-based water/glycol and water/oil emulsion hydraulic fluids.

APOLLO 2-PC. DESIGN
- Max. pressure: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" and up); 150 psi SWP
- Temp. range: -20° to 450°F

RPTFE seats; zinc-phosphate coating with chrome-plated ball, blowoutproof stem, and adjustable packing gland. For use with hydraulics, oils, and low-pressure steam. Meet MSS-SP-110.

Pipe Size	GA 1-Piece, Full Port Item No.	GA 1-Piece, Standard Port Item No.	GA 2-Piece, Full Port Item No.	Apollo 2-Piece, Standard Port Item No.
¼"	6GD36	—	32H960	1CKK4
⅜"	6GD37	—	32H961	1CKK5
½"	—	6GD38	32H962	1CKK6
¾"	—	6GD39	32H963	1CKK7
1"	—	6GD40	32H964	1CKK8
1¼"	—	6GD41	—	1CKK9
1½"	—	6GD42	—	1CKL1
2"	—	6GD43	—	1CKL2

High-Pressure Seal Weld Ball Valves

- Max. pressure: 3000 psi CWP
- Temp. range: 0° to 200°F

Full-port valves have Delrin® seats and PTFE seals. With locking lever handle and 316 stainless steel ball and 17-4 PH stem. Antistatic design. Integral ISO actuator mounting pad. FNPT connections. Meet ASTM and NACE MR-0175 2002.



GA GRAINGER APPROVED

Pipe Size	316 Stainless Steel Item No.	Carbon Steel Item No.
¼"	3MRD6	—
⅜"	3MRD7	3MRC8
½"	3MRD8	3MRC9
¾"	3MRD9	3MRD1
1"	3MRE1	3MRD2
3"	—	3MRD5

3-Way Stainless Steel Ball Valves

BONOMI NORTH AMERICA, INC.

- Max. pressure: 1000 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: -20° to 450°F

3-pc., full-port valves have 4 ball seats so that any port can be the pressurized inlet. RTFE seats with self-adjusting stem packing. 316 stainless steel body, ball, and stainless steel blowoutproof stem. Handle is 304 stainless steel with a vinyl grip. NPT connections. L Port models have a 90° flow pattern with off position. T Port models have a 90° and 180° flow path. Meet ANSI B1.20.1.



Pipe Size	Port Full L Item No.	Port Full T Item No.
¼"	46CE46	46CE54
⅜"	46CE47	46CE55
½"	46CE48	46CE56
¾"	46CE49	46CE57
1"	46CE50	46CE58
1¼"	46CE51	46CE59
1½"	46CE52	46CE60
2"	46CE53	46CE61







DynaQuip

Apollo® Valves

Carbon Steel Ball Valves

DYNAQUIP

Valves with SAE connection come with an O-ring boss.

MEDIUM-PRESSURE
- Rated: 3000 psi CWP; 150 psi SWP
- Temp. range: -20° to 425°F

Zinc phosphate-coated body and adjustable stem packing. 2-pc., full-port valves with RPTFE seats. For use in industrial applications with petroleum-based water/glycol and water/oil emulsion hydraulic fluids.

HIGH-PRESSURE
- Max. pressure: 7000 psi (¼" to ⅜"); 5800 psi (½" and ¾"); 4600 psi (1" and up)
- Temp. range: -20° to 175°F

Valves operate at full-rated pressure with no seat distortion. Bottom-loaded stems with maintenance-free nitrile rubber seals. 3-pc. (¼" to 1"); 2-pc. (1¼" and up); all are full-port with Delrin® seats, except Nos. 32H965 to 32H968 have RPTFE seats. For use with petroleum-based, water/glycol, and water/oil emulsion hydraulic fluids.

Pipe Size	Medium-Pressure DynaQuip FNPT x FNPT Item No.	High-Pressure DynaQuip FNPT x FNPT Item No.	High-Pressure DynaQuip SAE x SAE Item No.
Latching Lockout Handle			
¼"	1AWT1	1AWU2	—
⅜"	1AWT2	1AWU3	—
½"	1AWT3	1AWU4	—
¾"	1AWT4	1AWU5	—
1"	1AWT5	1AWU6	1AXJ6

Pipe Size	Medium-Pressure DynaQuip SAE x SAE Item No.	Medium-Pressure DynaQuip FNPT x FNPT Item No.	Medium-Pressure Apollo FNPT x FNPT Item No.	High-Pressure DynaQuip SAE x SAE Item No.	High-Pressure DynaQuip FNPT x FNPT Item No.
Lever Handle					
¼"	1AWC4	—	—	—	6CX22
⅜"	1AWC5	—	—	—	6CX23
½"	1AWC6	—	3RAU2	1AWV3	6CX24
¾"	1AWC7	—	3RAU3	—	6CX25
1"	—	4TL59	3RAU4	—	6CX26
1¼"	—	—	3RAU5	—	1AWC9
1½"	—	—	3RAU6	—	1AWD1
2"	—	—	3RAU7	—	—


No. 32H954


No. 4YLJ7

PVC Compact Economy Ball Valves

GRAINGER APPROVED

- Max. pressure: 150 psi CWP

Light-duty ball valves can be used with Schedule 40/80 pipe and fittings in water applications. Models with EPDM seals have a 1-pc. design that requires no ball/seat adjustment. All are suitable for use in light-duty water applications. Models with PTFE seats and socket connections meet ASTM D2467; PTFE seats and FNPT connections meet ASTM D2464.

Pipe Size	Temp. Range	FNPT x FNPT Item No.	Socket x Socket Item No.
FPM Seal, PTFE Seat			
½"	14° to 122°F	32H954	32H948
¾"		32H955	32H949
1"		32H956	32H950
1¼"		32H957	—
1½"		32H958	32H952
2"		32H959	32H953

Pipe Size	Temp. Range	FNPT x FNPT Item No.	Socket x Socket Item No.
EPDM Seal, Santoprene Seat			
½"	34° to 140°F	4YLG9	4YLG3
½"		4YLJ3	4YLH6
¾"		4YLH1	4YLG4
¾"		4YLJ4	4YLH7
1"		4YLH2	4YLG5
1"		4YLJ5	4YLH8
1¼"		4YLH3	4YLG6
1¼"		4YLJ6	4YLH9
1½"		4YLH4	4YLG7
1½"		4YLJ7	4YLJ1
2"		4YLH5	4YLG8
2"		4YLJ8	4YLJ2

True Union and PVC Ball Valves

ASAHI/AMERICA®

Typically used in on/off applications and with clean fluids with very little or no suspended solids. Suitable for use in chemical processing, mining, pool, power plant, transportation, and water treatment applications. Find more Asahi® Ball Valves at Grainger.com®. NSF-61 Approved.

COMPACT TYPE 27

Omni® ball valve has a unibody construction, low-profile design with ¼-turn handle, hyperbolic flow characteristics, low pressure drop, and reliable sealing.


Compact

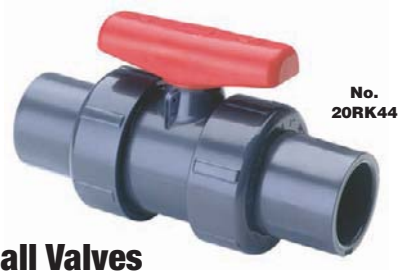
TRUE UNION DESIGN TYPE 21

Tapered O-ring grooves help keep the end connector O-rings in place during installation. The PTFE seat design eases field maintenance if needed. Flats on either side of the valve body allow you to keep the body from turning when the union nuts are tightened.


True Union Design

Pipe Size	Body Seal Material	Item No.
Compact Type 27		
Socket x Socket, 30° to 120°F		
⅜"	EPDM	49EZ58
½"	EPDM	49EZ59
¾"	EPDM	49EZ60
1"	EPDM	49EZ61
1¼"	EPDM	49EZ62
1½"	EPDM	49EZ63
2"	EPDM	49EZ64
Thread, 30° to 120°F		
⅜"	EPDM	49EZ65
½"	EPDM	49EZ66
¾"	EPDM	49EZ67
1"	EPDM	49EZ68
1¼"	EPDM	49EZ69
1½"	EPDM	49EZ70
2"	EPDM	49EZ71
True Union Design Type 21		
Socket x Socket, 30° to 120°F		
2½"	EPDM	49FA45
	FKM	49EZ81
3"	EPDM	49FA46
	FKM	49EZ82
4"	EPDM	49FA47
	FKM	49EZ83

Pipe Size	Body Seal Material	Item No.
True Union Design Type 21 (Cont.)		
Socket x Thread, 30° to 140°F		
½"	EPDM	49FA39
	FKM	49FA51
¾"	EPDM	49FA40
	FKM	49FA52
1"	EPDM	49FA41
	FKM	49FA53
1¼"	EPDM	49FA42
	FKM	49FA54
1½"	EPDM	49FA43
	FKM	49FA55
2"	EPDM	49FA44
	FKM	49FA56
Thread x Thread, 30° to 120°F		
2½"	EPDM	49FA48
3"	EPDM	49FA49
4"	EPDM	49FA50
True Union Design Type 21, 27" L Socket x Socket, 30° to 120°F		
6"	FKM	49EZ84
True Union Design Type 21, Vent Holes for sodium hypochlorite applications Socket x Thread, 30° to 140°F		
1¼"	FKM	49EZ78
1½"	FKM	49EZ79
2"	FKM	49EZ80


No. 20RK44

PVC/CPVC Ball Valves

- Max. pressure: ½" to 2" are 235 psi CWP; 2½" to 6" are 150 psi CWP, except No. 20RK42 is 235 psi CWP
- Temp. range: 40° to 140°F (PVC), 32° to 190°F (CPVC)

Chemical/corrosion resistant, fully sealed, feature a self-adjusting PTFE floating seat design, and a high-impact polypropylene handle. For a variety of chemical process and industrial applications including vacuum service. Designed for horizontal installation, but can be installed in a vertical up-flow only orientation. Meet ASTM F1970.

Pipe Size	PVC, FNPT x FNPT Body Seal Material	Item No.	PVC, Socket x Socket Body Seal Material	Item No.	PVC, Socket Body Seal Material	Item No.	CPVC, Socket x Socket Body Seal Material	Item No.
Compact Ball Valve, Standard Port								
½"	FKM	20RK01	EPDM	20RK09	—	—	FKM	20RK26
¾"	EPDM	20RK02	—	—	EPDM	20RK10	FKM	20RK27
1"	EPDM	20RK03	EPDM	20RK11	—	—	FKM	20RK28
1½"	EPDM	20RK05	—	—	—	—	—	—
2"	EPDM	20RK06	EPDM	20RK14	—	—	FKM	20RK31
3"	—	—	EPDM	20RK15	—	—	—	—
4"	—	—	EPDM	20RK16	—	—	—	—
6"	—	—	EPDM	20RK17	—	—	—	—

Pipe Size	PVC, Socket x Socket Body Port	Seal Material	Item No.	PVC, Socket x FNPT Body Port	Seal Material	Item No.	CPVC, Socket x Socket Body Port	Seal Material	Item No.	CPVC, Socket x FNPT Body Port	Seal Material	Item No.
Ball Valve												
½"	Full	EPDM	20RK53	—	—	—	Standard	EPDM	20RK65	—	—	—
½"	Standard	FKM	20RK44	—	—	—	Standard	FKM	20RK35	—	—	—
¾"	Standard	EPDM	20RK45	Full	EPDM	20RK54	Standard	FKM	20RK36	Standard	FKM	20RK66
1"	Full	EPDM	20RK46	Full	EPDM	20RK55	Standard	FKM	20RK37	Standard	FKM	20RK67
1¼"	Full	EPDM	20RK47	Full	EPDM	20RK56	—	—	—	—	—	—
1½"	Full	EPDM	20RK48	Full	EPDM	20RK57	—	—	—	Standard	FKM	20RK69
2"	Full	EPDM	20RK49	Full	EPDM	20RK58	Standard	FKM	20RK40	Standard	FKM	20RK70
2½"	—	—	—	Full	EPDM	20RK59	—	—	—	—	—	—
3"	—	—	—	Full	EPDM	20RK60	Standard	FKM	20RK42	—	—	—
4"	—	—	—	Full	EPDM	20RK61	—	—	—	—	—	—


No. 4PGA5

GRAINGER APPROVED

True Union PVC and CPVC Ball Valves

Full-port valves have a lever handle and PTFE seats. Easy to disassemble by handle for less down time for replacement and maintenance. Connection type is socket/FNPT x socket/FNPT. For use in chemical industry, swimming pool, wastewater, and other corrosive applications. Meet ASTM F1970.

Pipe Size	Max. Pressure	PVC Temp.: 32° to 140°F Item No.	CPVC Temp.: 32° to 194°F Item No.
EPDM Seals			
½"	225 psi CWP	4PGA5	4PGC4
¾"		4PGA6	4PGC5
1"		4PGA7	4PGC6
1¼"		4PGA8	4PGC7
1½"		4PGA9	4PGC8
2"		4PGC1	4PGC9
3"	150 psi CWP	4PGC2	4PGD1
4"		4PGC3	4PGD2
FPM Seals			
½"	225 psi CWP	4PGD3	4PGE2
¾"		4PGD4	4PGE3
1"		4PGD5	4PGE4
1¼"		4PGD6	4PGE5
1½"		4PGD7	4PGE6
2"		4PGD8	4PGE7
3"	150 psi CWP	4PGD9	4PGE8
4"		4PGE1	4PGE9

TB and TBH Series Industrial True Union PVC and CPVC Ball Valves

HAYWARD


No. 4TJD4

- Max. pressure: 250 psi CWP (¼" to 2"), 235 psi CWP (2½" to 4")

Ideal for corrosive industrial applications, these full-port valves have blowoutproof stems and reversible PTFE seats to ease valve repair. The double O-ring stem seal can provide up to twice the leakage protection of models with only a single stem seal.

Pipe Size	PVC EPDM Item No.	PVC FPM Item No.	CPVC EPDM Item No.	CPVC FPM Item No.
TB Series				
FNPT x FNPT				
2½"	4TJC9	—	—	—
3"	4TJD1	4TJF9	—	—
4"	4TJD2	4TJG1	—	—
Socket x Socket				
2½"	4TJD3	—	4TJE6	—
3"	4TJD4	—	4TJE7	4TJH6
4"	4TJD5	—	4TJE8	4TJH7

Pipe Size	PVC EPDM Item No.	PVC FPM Item No.	CPVC EPDM Item No.	CPVC FPM Item No.
TBH Series				
Flanged				
½"	466H60	466H48	466H84	466H72
¾"	466H62	466H50	466H86	466H74
1"	466H64	466H52	466H88	466H76
1¼"	466H66	466H54	466H90	466H78
1½"	466H68	466H56	466H92	466H80
2"	466H70	466H58	466H94	466H82
Socket				
¼"	—	466H43	—	—
⅜"	—	466H45	—	—

Pipe Size	PVC EPDM Item No.	PVC FPM Item No.	CPVC EPDM Item No.	CPVC FPM Item No.
TBH Series (Cont.)				
Socket x Thread				
½"	466H59	466H47	466H83	466H71
¾"	466H61	466H49	466H85	466H73
1"	466H63	466H51	466H87	466H75
1¼"	466H65	466H53	466H89	466H77
1½"	466H67	466H55	466H91	466H79
2"	466H69	466H57	466H93	466H81
Thread x Thread				
¼"	—	466H44	—	—
⅜"	—	466H46	—	—


No. 1CMC3

+GF+
Type 375 True Union PVC and CPVC Ball Valves

- Max. pressure: 232 psi at 73°F

2-way full-port valves permit radial installation and can be used with Schedule 80 fittings and pipe. For use in chemical industry, swimming pool, aquarium, wastewater, and other corrosive applications. NSF 61 Approved.

Pipe Size	Connec. Type	Body Material PVC EPDM Seals Item No.	PVC FPM Seals Item No.	CPVC EPDM Seals Item No.	CPVC FPM Seals Item No.
½"	Socket/FNPT x Socket/FNPT	1CMC3	6NC66	1CMD2	1VHA6
¾"		1CMC4	1VGZ8	1CMD3	1VHA8
1"		1CMC5	6NC68	1CMD4	1VHB1
1¼"		1CMC6	6NC69	1CMD5	1VHB3
1½"		1CMC7	6NC70	1CMD6	1VHB5
2"		1CMC8	6NC71	1CMD7	1VHB7
3"	Socket x Socket	1CMC9	—	—	—
4"		1CMD1	—	—	—


No. 3ELZ1

SPEARS

True Union PVC and CPVC Ball Valves with Locking Handle

- Max. pressure: 235 psi at 73°F
- Temp. range: 73° to 140°F

Compact, ¼-turn shutoff valves are for industrial and chemical processing applications. Full-port style with PTFE seats and locking polypropylene handles. ASTM F 1970 and NSF Approved.

Pipe Size	PVC, EPDM Seals Item No.	CPVC, FPM Seals Item No.
Socket/FNPT x Socket/FNPT		
½"	3ELZ1	3EMA2
¾"	3ELZ2	3EMA3
1"	3ELZ3	3EMA4
1¼"	3ELZ4	—
1½"	3ELZ5	3EMA6
2"	3ELZ6	3EMA7
Socket x Socket		
3"	3ELZ7	3EMA8
4"	3ELZ8	—

+GF+
Type 546 True Union Ball Valves


No. 2KE46

- Max. pressure: 232 psi at 73°F

2-way full-port valves can be radial installed and feature a breakaway stem. Can be used with Schedule 80 pipe and fittings. Valves can be actuated, and handle has a molded-in wrench for access to valve components. With chemical-resistant EPDM or FPM seals. Union connections. For use in the chemical industry and in swimming pool, aquarium, wastewater, and other corrosive applications. Polypropylene meet ASTM D 4101; PVC and CPVC meet ASTM 1970-01, ASTM D1784, USP Class VI, FDA, NSF 61.

Pipe Size	Polypropylene Item No.
FNPT x FNPT, EPDM Seals	
½"	1CLU8
1¼"	1CLV2
1½"	1CLV3
2"	1CLV4

Pipe Size	Polypropylene Item No.
FNPT x FNPT, FPM Seals	
½"	1CLV6
¾"	1CLV7
1"	1CLV8
2"	1CLW2

Pipe Size	PVC Item No.	CPVC Item No.
Socket/FNPT x Socket/ FNPT, EPDM Seals		
⅜"	2KE46	3TNR3
½"	2KE47	2KE52
¾"	2KE48	2KE53
1"	2KE49	2KE54
1¼"	—	3TNR4
1½"	2KE50	3TNR5
2"	2KE51	3TNR6


No. 6FXL0

HAYWARD

TBZ Series Industrial True Union PVC and CPVC Z-Ball Valves

Ideal for sodium hypochlorite service, these valves feature a drilled ball for venting gases and keep inner valve surfaces wetted. Black handle acts as an identifier. FPM seals only with PTFE seats and double O-ring stem seal. Nos. 466J56 to 466J79 feature a lock-out/tag-out plate that can accommodate up to 4 locks. All models meet NSF and ASTM, except Nos. 466J56 to 466J79 meet NSF/ANSI 61.

Pipe Size	PVC Temp. Range (°F)	PVC Item No.	CPVC Temp. Range (°F)	CPVC Item No.
Flanged, Max. Press.: 250 psi CWP				
½"	0 - 140	466J57	0 - 160	466J69
¾"	0 - 140	466J59	0 - 160	466J71
1"	0 - 140	466J61	0 - 160	466J73
1¼"	0 - 140	466J63	0 - 160	466J75
1½"	0 - 140	466J65	0 - 160	466J77
2"	0 - 140	466J67	0 - 160	466J79
Socket x Socket, Max. Press.: 235 psi CWP				
2½"	34 - 140	6FXJ7	34 - 180	6FXK9
3"	34 - 140	6FXJ9	34 - 180	6FXL0
4"	34 - 140	6FXK1	34 - 180	6FXL2
Socket x Thread, Max. Press.: 250 psi CWP				
½"	0 - 140	466J56	0 - 160	466J68
¾"	0 - 140	466J58	0 - 160	466J70
1"	0 - 140	466J60	0 - 160	466J72
1¼"	0 - 140	466J62	0 - 160	466J74
1½"	0 - 140	466J64	0 - 160	466J76
2"	0 - 140	466J66	0 - 160	466J78

1-Pc. and 3-Pc. Polypropylene Bolted Ball Valves

Fiberglass-reinforced bolted valves for heavy-duty industrial applications. PTFE seats allow free movement of self-aligning, diamond-tuned polypropylene ball for precise alignment. Self-lubricating PTFE stem, bushings, and ball seats won't stick or bind. With FKM seals. FNPT connections. For use in fluid-handling applications with fertilizer, herbicides, and insecticides, as well as with industrial acids, solvents, liquid waste, wastewater, and cooling water.

2-WAY
- Max. temp.: 150°F
- 3-pc. valve structure

3-WAY
- Max. pressure: 100 psi
- Temp. range: -20° to 150°F
- 1-pc. valve structure

Full-port, right or left directional flow valves. Bottom-load valves can be turned off to stop flow. Side-load valves cannot be turned off.

Pipe Size	Port	2-Way Max. Pressure	2-Way Item No.	3-Way Bottom Load Max. Pressure	3-Way Bottom Load Item No.	3-Way Side Load Max. Pressure	3-Way Side Load Item No.
½"	Standard	150 psi CWP	**1MKK1**	—	—	—	—
¾"	Full	—	—	150 psi CWP	**3DTF3**	100 psi CWP	**3DTF8**
¾"	Standard	150 psi CWP	**1MKK2**	—	—	—	—
1"	Full	150 psi CWP	**1MKK3**	150 psi CWP	**3DTF4**	100 psi CWP	**3DTF9**
1¼"	Full	150 psi CWP	**1MKK4**	150 psi CWP	**3DTF5**	100 psi CWP	**3DTG1**
1½"	Full	—	—	150 psi CWP	**3DTF6**	100 psi CWP	**3DTG2**
1½"	Standard	150 psi CWP	**1MKK5**	—	—	—	—
2"	Full	150 psi CWP	**1MKK7**	100 psi CWP	**3DTF7**	100 psi CWP	**3DTG3**
2"	Standard	150 psi CWP	**1MKK6**	—	—	—	—
3"	Full	100 psi CWP	**1MKK8**	—	—	—	—
4"	Standard	75 psi CWP	**1MKK9**	—	—	—	—



No. 1MKK1



No. 1MKK7



No. 3DTG3

Actuated Ball Valves

DynaQuip

- Valve temp. range: -20° to 400°F

Compact, direct-mount valves provide accurate alignment. Anticorrosive coating. RTFE seats. 3-way models are ideal for diverter-type applications; 3-pc. models permit easy in-line maintenance. All valves have NEMA 4X enclosures.

PNEUMATIC
- Actuator inlet pressure: 80 psi or greater
- Actuator temp. range: -4° to 176°F

Excellent for continuous rapid cycling or hazardous conditions. Hard anodized aluminum housing. Integral 120VAC, 60 Hz, NAMUR-mount solenoid with three ¼" NPT ports.

ELECTRONIC
- Actuator temp. range: -15° to 140°F

Feature reversible motors, terminal strip, manual override, and a hardened precision gear train. ½" to 2" can be wired in parallel. 50% duty cycle. 3" have 2 extra SPDT limit switches, 30% duty cycle. General cycle times: 2½ sec. for ½" to 1"; 6½ to 15 sec. for 2"; 15 to 22 sec. for 3". The 12-24VAC/VDC models do not have a manual override.

SOLENOID AIR CONTROL VALVES

Standard NAMUR direct-mounted pilot solenoids can provide electronic control of the inlet air. Solenoids efficiently pressurize and exhaust the pneumatic actuator piston compartments allowing the actuator to cycle.



No. 46Z612



No. 4TL04



No. 44F209

Pipe Size	Max. Pressure	Pneumatic Actuated Ball Valve: Double Acting Item No.	Pneumatic Actuated Ball Valve: Spring Return Item No.	Pneumatic Actuated Ball Valve: Spring Return - Fail Close Item No.
316 Stainless Steel, Full Port, 2-Piece, Inline, FNPT				
¼"	1000 psi CWP	—	4TL09	—
½"		4TL06	4TL10	—
¾"		4TL07	4TL11	—
1"		4TL08	4TL12	—
1½"		4YM64	4YM66	—
2"		4YM65	4YM67	—
Brass, Standard L Port, 1-Piece, Three-Way, FNPT				
½"	400 psi CWP	—	—	1AWK9
¾"		—	—	1AWL1
1"		1AWK2	—	1AWL2
1¼"		—	—	1AWL3
1½"		—	—	1AWL4
2"		1AWK5	—	1AWL5
3"		1AWK6	—	—
Bronze, Full Port, 3-Piece, Inline, FNPT				
½"	600 psi CWP	3TPH3	—	3TPJ2
¾"		3TPH4	3TPJ3	—
1"		3TPH5	3TPJ4	—
1½"		—	3TPJ6	—
2"		3TPH8	3TPJ7	—
Forged Brass, Full Port, 2-Piece, Inline, FNPT				
½"	600 psi CWP	6CX04	6CX10	—
¾"		6CX05	6CX11	—
1"		6CX06	—	6CX12
1¼"		6CX07	6CX13	—
1½"		6CX08	6CX14	—
Lead Free Brass, Full Port, 2-Piece, Inline, FNPT				
½"	600 psi CWP	46Z612	46Z617	—
¾"		46Z613	46Z618	—
1"		46Z614	46Z619	—
1¼"		46Z615	—	—
1½"		46Z616	46Z621	—
2"		6CX09	6CX15	—
3"		1AWJ5	—	1AWJ6
Stainless Steel, Full Port, 3-Piece, Inline, FNPT				
¼"	1000 psi CWP	1AWP1	—	1AWR1
⅜"		1AWP2	—	1AWR2
½"		1AWP3	—	1AWR3
¾"		1AWP4	—	1AWR4
1"		1AWP5	—	1AWR5
1¼"		1AWP6	—	1AWR6
1½"		1AWP7	—	1AWR7
2"		1AWP8	—	1AWR8
3"		1AWP9	—	1AWR9
Stainless Steel, Standard L Port, 1-Piece, Three-Way, FNPT				
½"	1000 psi CWP, 125 psi Steam	1AWL9	—	1AWN5
¾"		1AWN1	—	1AWN6
1"		1AWN2	—	1AWN7
1½"	800 psi CWP, 125 psi Steam	1AWN3	—	—
2"		1AWN4	—	1AWN9

Pilot Port Size	Operational Pressure Range	Ambient Temp. Range	Valve Actuator / Return	Voltage	Item No.
Solenoid Air Control Valve					
¼" NPT	37 to 150 psi	14° to 122°F	Solenoid / Spring	12VDC	**46Z648**
¼" NPT	22 to 116 psi	23° to 140°F	Solenoid / Spring	24VDC	**46Z647**

Pipe Size	Max. Pressure	Electronic Actuated Ball Valve: 120VAC Item No.	Electronic Actuated Ball Valve: 12-24VAC/VDC Item No.
316 Stainless Steel, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
¼"	1000 psi CWP	4TL01	1AWF7
½"		4TL02	1AWF8
¾"		4TL03	1AWF9
1"		4TL04	1AWG1
1½"		4YM62	1AWG2
2"		4YM63	—
3"		1AWF6	—
316 Stainless Steel, Full Port, 3-Piece, 2-Way, FNPT x FNPT			
¼"	1000 psi CWP	1AWH2	—
½"		1AWH4	—
¾"		1AWH5	—
1"		1AWH6	—
1¼"		1AWH7	—
1½"		1AWC1	—
2"		1AWC2	—
3"		1AWC3	—
Brass, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
½"	600 psi CWP	6CX16	1AWD4
¾"		6CX17	1AWD5
1"		6CX18	1AWD6
1¼"		6CX19	1AWD7
1½"		6CX20	1AWD8
2"		6CX21	1AWD9
3"		1AWD3	—
Brass, Standard L Port, 2-Piece, 3-Way, FNPT x FNPT x FNPT			
¼"	400 psi CWP	—	1AWE8
⅜"		—	1AWE9
½"		1AWE3	1AWF1
¾"		1AWE4	1AWF2
1"		1AWE5	1AWF3
1¼"		1AWE6	1AWF4
1½"		1AWE7	1AWF5
2"		1AWB8	—
3"		1AWB9	—
Bronze, Full Port, 3-Piece, 2-Way, FNPT x FNPT			
½"	600 psi CWP	3TPF5	—
¾"		3TPF6	—
1"		3TPF7	—
1¼"		3TPF8	—
1½"		3TPF9	—
2"		3TPG1	—
Lead Free Brass, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
½"	600 psi CWP	46Z622	46Z627
¾"		46Z623	46Z628
1"		46Z624	46Z629
1¼"		46Z625	46Z630
1½"		46Z626	46Z631

Item	Includes	Item No.
Valve Position Limit Switch Kit		
Limit Switch Kit	Valve Position Limit Switch, Mounting Hardware	**44F209**
Solenoid Pilot Valve, 115VAC	Ready-to-Mount Pilot Solenoid	**44F197**
Solenoid Pilot Valve, 24VAC	Replacement Pilot Soleniod, Screws (4)	**44F207**

+GF+

PVC Actuated Ball Valves

- Max. pressure: 230 psi CWP
- Required air pressure for pneumatic valves: 60 to 100 psi
- Temp. range: 14° to 140°F

Full-port true-union valves have PTFE seats and EPDM seals. Socket/threaded connections. Electrically-actuated valves have a 40% duty cycle.



No. 3GXJ4

Pipe Size	Pneumatic—Spring Return - Fail Close Item No.	Electric—100-230VAC Item No.
½"	3GXJ4	—
¾"	3GXJ5	3GXL5
1"	3GXJ6	3GXL6
1¼"	—	3GXL7
1½"	3GXJ8	—
2"	3GXJ9	3GXL9

HAYWARD

Electrically Actuated EATB and EAUTB Series True Union Ball Valves

- Max. pressure: 250 psi CWP
- Temp. range: 40° to 140°F

Socket and threaded end connections. Valve is PVC construction with PTFE seats. EATB Series has a 115VAC electric actuator. EAUTB Series has an EAU actuator with a prewired terminal strip and 1 auxiliary limit switch. All valves meet NSF/ANSI 372, PVC Cell Class 12454 per ASTM D1784, UL/CSA Listed Motor, Thermoplastic NEMA 4/4X enclosure.

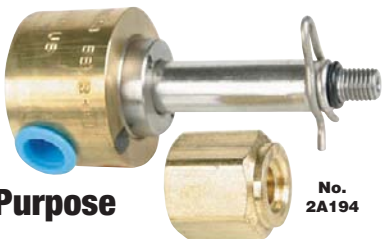


No. 26X037

Pipe Size	EATB Series EPDM Seal Item No.	EAUTB Series EPDM Seal Item No.	EAUTB Series FPM Seal Item No.
½"	26X028	26X033	26X038
¾"	26X029	26X034	26X039
1"	26X030	26X035	26X040
1½"	26X031	26X036	26X041
2"	26X032	26X037	26X042

Dayton

3-Way General-Purpose Solenoid Valves



No. 2A194

- Max. fluid temp.: 180°F
- Buna N gaskets
- Mount in any position

Direct-acting valves are intended for air and water applications. All have 3 ports and 2 orifices that alternate between applying pressure to and exhausting pressure from actuators and cylinders. Rated for continuous duty. Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

WARNING: Not for use in explosive atmospheres.

Pipe Size	Orifice Dia.	Coefficient of Volume†	Min. Oper. Press. Differential	Max. Oper. Press. Differential Water	Safe Working Water Pressure	Item No.
Normally Closed, Brass Body						
⅛"	1/16"	0.12/0.09	0 psi	160 psi	500 psi	2CZY8
¼"	3/32"	0.22/0.17	0 psi	90 psi	500 psi	2CZY9
Normally Closed, Stainless Steel Body						
¼"	1/16"	0.12/0.09	0 psi	160 psi	500 psi	3A426
	3/32"	0.22/0.17	0 psi	90 psi	500 psi	3A429
Normally Open, Stainless Steel Body						
¼"	1/16"	0.12/0.09	0 psi	125 psi	500 psi	3A427
	3/32"	0.22/0.17	0 psi	75 psi	500 psi	3A430
Universal, Brass Body						
¼"	3/64"	0.05/0.06	0 psi	125 psi	500 psi	4A703
	1/16"	0.12/0.09	0 psi	100 psi	500 psi	2A194
	3/32"	0.22/0.17	0 psi	40 psi	500 psi	4A704

† Coefficient of Volume: the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position.

BANJO

Electrically Actuated Polypropylene Ball Valves

- Max. pressure: 150 psi CWP
- Temp. range: 0° to 150°F

3-pc. valves have self-lubricating PTFE seats, EPDM seals, and 316 stainless steel ball, stem, and valve hardware. Include open/closed valve indicator. Chemical-resistant construction makes these valves ideal for fertilizer, herbicide, and insecticide handling, as well as for chemical and acid handling in many industrial, pulp and paper, and process applications. FNPT connections.



No. 3ELX6

Pipe Size	Port	12VDC Item No.	24VDC Item No.
¾"	Full	3ELX3	3ELX8
1"	Full	3ELX4	3ELX9
1½"	Full	3ELX5	3ELY1
2"	Standard	3ELX6	3ELY2
2"	Full	3ELX7	3ELY3



No. 2CZZ6



No. 4A776



No. 2A199



No. 2DAA1

Dayton

2-Way Steam Solenoid Valves

- Mount in any position

High-temperature gaskets can be used in hot water or steam applications. Use with Class H insulation coils (sold separately). Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

WARNING: Not for use in explosive atmospheres.

Pipe Size	Orifice Dia.	Coefficient of Volume†	Min. Oper. Press. Differential	Max. Oper. Press. Differential Water	Safe Working Water Pressure	Safe Working Steam Pressure	Steam Capacity	Seal Material	Item No.
Normally Closed, Brass Low Pressure Steam - Buna Gaskets - Max. Fluid Temp.: 250°F**									
⅛"	5/32"	0.48	0 psi	100 psi	500 psi	100 psi	47 lb./hr.	—	2CZZ6
⅜"	⅜"	2.20	2 psi	200 psi	350 psi	350 psi	216 lb./hr.	EPM	2DAA2
	⅝"	2.80	0 psi	100 psi	300 psi	15 psi	129 lb./hr.	EPM	4A776
	⅝"	2.80	5 psi	100 psi	300 psi	15 psi	129 lb./hr.	EPM	4A694
½"	⅝"	3.60	0 psi	100 psi	300 psi	15 psi	165 lb./hr.	EPM	1A582
	⅝"	3.60	5 psi	100 psi	300 psi	15 psi	165 lb./hr.	EPM	4A695
¾"	¾"	5.50	0 psi	100 psi	300 psi	15 psi	253 lb./hr.	EPM	1A583
	¾"	5.50	5 psi	100 psi	300 psi	15 psi	253 lb./hr.	EPM	4A696
Normally Closed, Brass High Pressure Steam - PTFE Gaskets - Max. Fluid Temp.: 400°F**									
¼"	⅛"	0.34	0 psi	150 psi	500 psi	500 psi	33.3 lb./hr.	PTFE	2A197
	5/32"	0.48	0 psi	100 psi	500 psi	500 psi	47 lb./hr.	PTFE	2CZZ4
⅜"	⅜"	2.20	2 psi	300 psi	350 psi	350 psi	594 lb./hr.	PTFE	4A715
	½"	3.50	5 psi	150 psi	300 psi	300 psi	864 lb./hr.	PTFE	4A702
½"	½"	3.50	5 psi	150 psi	300 psi	300 psi	864 lb./hr.	PTFE	2A198
¾"	¾"	7.00	5 psi	150 psi	300 psi	300 psi	1729 lb./hr.	PTFE	2A199
1"	1"	13.00	5 psi	150 psi	300 psi	300 psi	3210 lb./hr.	PTFE	2A200
1¼"	1¼"	16.00	5 psi	150 psi	300 psi	300 psi	3951 lb./hr.	PTFE	2A201
1½"	1½"	25.00	5 psi	150 psi	300 psi	300 psi	6174 lb./hr.	PTFE	2A202
Normally Closed, Stainless Steel High Pressure Steam - PTFE Gaskets - Max. Fluid Temp.: 400°F**									
¼"	3/64"	0.05	0 psi	150 psi	500 psi	500 psi	11.8 lb./hr.	PTFE	2DAA1

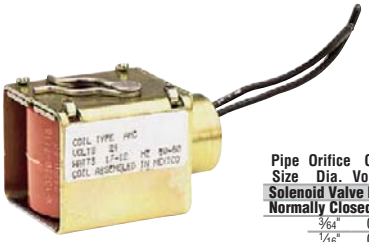
*† Coefficient of Volume: the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position. ** Do not exceed temperature limitations.*



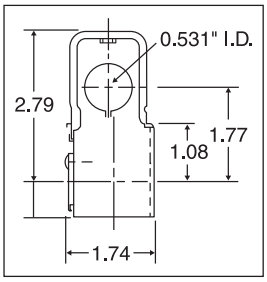
Valve Coil
Key A
No. 6X542



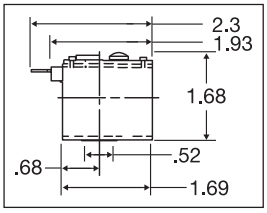
Valve Coil
Key B
No. 3A439



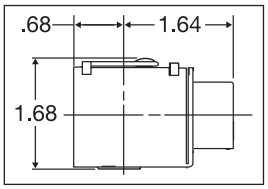
Valve Coil
Key C
No. 4A705



A.
Junction Box 7/8" Dia. Conduit Hole



B.
1/4" Spade Terminal



C.
1/2" Conduit Connection

Dayton®

Solenoid Valves and Valve Coils



Solenoid Valve
No. 1A576

Solenoid Valves—Feature 2-way design and have Buna N gaskets (do not exceed temperature limitations). To prevent backflow, add a check valve to the system (sold separately on page 2900). Valves that have OPD minimums beginning with 0 (e.g., 0 to 300 psi) are direct-acting and will open and close when line pressures are within minimum and maximum psi ranges. Valves that have OPD minimums starting at 2 or 5 (e.g., 5 to 150 psi) are designated pilot-operated and will open and close only if pressure differential between the inlet and outlet is within OPD ranges. Normally closed valves will open when energized. Normally open valves will close when energized. Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

- Max. fluid temp.: 180°F
- Mount in any position

WARNING: Not for use in hazardous atmospheres.

Note: Maximum suggested cycling rate is 10 times per min.

Pipe Size	Orifice Dia.	Cv of Volume†	Min. Operating Pressure Differential*	Max. Operating Pressure Differential Air/Inert Gas	Safe Working Water Pressure	Item No.
Solenoid Valve Less Coil						
Normally Closed, Brass						
	3/64"	0.05	0 psi	500 psi	500 psi	**2CZZ3**
	1/16"	0.12	0 psi	500 psi	500 psi	**3A422**
1/8"	3/32"	0.22	0 psi	300 psi	500 psi	**1A574**
	1/8"	0.34	0 psi	150 psi	500 psi	**2CZZ1**
	5/32"	0.48	0 psi	100 psi	500 psi	**2CZZ5**
	3/32"	0.22	0 psi	300 psi	500 psi	**2CZZ8**
	1/8"	0.34	0 psi	150 psi	500 psi	**1A575**
1/4"	5/32"	0.48	0 psi	100 psi	500 psi	**2CZZ2**
	1/4"	0.70	0 psi	20 psi	500 psi	**2CZZ9**
	1/4"	1.20	2 psi	200 psi	350 psi	**3A433**
	1/4"	1.20	2 psi	200 psi	350 psi	**4A699**
	3/8"	1.70	0 psi	10 psi	500 psi	**2CZZ7**
3/8"	3/8"	2.20	2 psi	200 psi	350 psi	**4A700**
	1/2"	3.50	5 psi	250 psi	300 psi	**4A701**
	5/8"	2.80	0 psi	100 psi	300 psi	**4A697**
	5/8"	2.80	5 psi	150 psi	300 psi	**1A576**
	1/2"	3.50	5 psi	250 psi	300 psi	**3A435**
1/2"	3/8"	3.60	0 psi	100 psi	300 psi	**3A434**
	3/8"	3.60	5 psi	150 psi	300 psi	**1A577**
	3/4"	5.50	0 psi	100 psi	300 psi	**3A436**
3/4"	3/4"	5.50	5 psi	125 psi	300 psi	**1A578**
	3/4"	7.00	5 psi	250 psi	300 psi	**3A437**
1"	1"	13.00	5 psi	125 psi	250 psi	**1A579**
	1"	13.00	5 psi	250 psi	300 psi	**3A438**
1 1/4"	1 1/4"	16.00	5 psi	250 psi	300 psi	**1A580**
1 1/2"	1 1/2"	25.00	5 psi	250 psi	300 psi	**1A581**
Normally Closed, Stainless Steel						
	1/16"	0.12	0 psi	500 psi	500 psi	**4A688**
1/8"	3/32"	0.22	0 psi	300 psi	500 psi	**3A423**
	1/8"	0.34	0 psi	150 psi	500 psi	**4A689**
	5/32"	0.48	0 psi	100 psi	500 psi	**4A690**
	3/64"	0.05	0 psi	500 psi	500 psi	**4A691**
	1/16"	0.12	0 psi	500 psi	500 psi	**3A425**
	3/32"	0.22	0 psi	300 psi	500 psi	**4A692**
1/4"	1/8"	0.34	0 psi	150 psi	500 psi	**2A195**
	5/32"	0.48	0 psi	100 psi	500 psi	**3A431**
	3/16"	0.56	0 psi	60 psi	500 psi	**4A693**
	1/4"	0.70	0 psi	20 psi	500 psi	**3A432**
Normally Open, Stainless Steel						
1/4"	1/16"	0.09	0 psi	150 psi	500 psi	**3A424**
	3/32"	0.17	0 psi	75 psi	500 psi	**3A428**

Solenoid Valve Coils—For use with Dayton® solenoid valves on this page only. Continuous duty coils, for Class F, H, and B insulation with NEMA coil enclosure. Coils and valves, when assembled, are UL Listed. For steam valves, use Class H coil. 12 and 24VDC coils have integral pulse modulation circuit for the same OPD ratings as AC coils. CSA Certified, except Nos. 3PU19 and 3PU18 are UL Listed only.

WARNING: Not for use in hazardous atmospheres.

Key	Coil Insulation Class**	Voltage 12VDC Item No.	120VAC Item No.	208/240VAC Item No.	24VAC Item No.	24VDC Item No.
Solenoid Valve Coils						
A	F	**3PU19**	**6X543**	**6X544**	**6X542**	**3PU18**
A	H	—	**2A204**	**2A205**	**2A203**	—
B	B	—	**3A440**	**3A441**	—	—
C	F	—	**4A706**	**4A707**	**4A705**	—
B	F	—	—	—	**3A439**	—

Voltage	Pipe Size NPT	Inrush VA	Holding VA	Holding Watts
Solenoid Valve Coils				
12VDC	All	60	5	4.0
120VAC	1/8"	23	19	9.0
	1/4"	28	19	9.0
	3/8", 1/2", 3/4"	57	19	8.5
	1"	29	19	8.5
	1-1/4", 1-1/2"	23	19	9.0
208/240VAC	1/8"	26	19	9.0
	1/4"	29	19	9.0
	3/8", 1/2", 3/4"	60	24	10.6
	1"	31	24	10.6
	1-1/4", 1-1/2"	31	19	9.0
24VAC	1/8"	26	18	8.3
	1/4"	30	18	8.3
	3/8", 1/2", 3/4"	53	16	7.5
	1"	27	16	7.5
	1-1/4", 1-1/2"	24	18	8.3
24VDC	All	48	4	4.0

*† Coefficient of Volume (Cv): the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position. * OPD—Operating Pressure Differential. **NEMA Class F (311°F), Class H (356°F), Class B (266°F).*

Solenoid Valve Rebuild Kits

Dayton®

Replacement parts for Dayton® solenoid valves. All come with plunger assembly, gasket, spring, and instructions. See Grainger.com® for a complete listing of kit contents.

Description	For Use With	Item No.
Diaphragm Assembly	3A434, 3A436, 4A697	**2DAA5**
	1A576, 1A577	**2DAA6**
	1A582, 1A583, 4A776	**2DAC9**
	1A578	**2DAD1**
	1A579	**2DAD2**
	4A694, 4A695	**2DAD3**
	4A696	**2DAD4**
O-Ring, Spanner Wrench	3A426, 3A429, 2CZY8, 2CZY9	**2DAA3**
	1A574, 3A422, 3A423, 4A688, 4A689, 4A690, 2CZZ1, 2CZZ3, 2CZZ5	**2DAA4**
	2CZZ6	**2DAA7**
	2CZZ7	**2DAA8**
	1A575, 2A195, 2A196, 3A425, 3A431, 4A691, 4A692, 4A693	**2DAA9**
	3A432, 2CZZ2, 2CZZ8, 2CZZ9	**2DAB1**
	2A194, 4A703, 4A704	**2DAB4**
	3A427, 3A430	**2DAB5**
	3A424, 3A428	**2DAC8**
	2A197, 2CZZ4, 2DAA1	**2DAD5**

Description	For Use With	Item No.
Piston Assembly, Piston Ring	2DAA2	**2DAB2**
	3A433, 4A699, 4A700	**2DAB3**
	2A198, 4A702	**2DAB6**
	2A199	**2DAB7**
	2A200	**2DAB8**
	2A201	**2DAB9**
	2A202	**2DAC1**
	3A435, 4A701	**2DAC2**
	3A437	**2DAC3**
	3A438	**2DAC4**
	1A580	**2DAC5**
	1A581	**2DAC6**
	4A715	**2DAC7**



No. 2DAD1



No. 2DAA3

2- and 3-Way General-Purpose Solenoid Valves

1-pc. molded epoxy coil enclosures have built-in ½" NPT conduit hubs with strain relief. For information on standards, go to Grainger.com®.

2-Way—Use high-flow valves for liquid, corrosive, and air/inert gas service applications, including car washes, air compressors, pumps, laundry equipment, and industrial water control.

3-Way—Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from valve actuators and single-acting cylinders.

ASCO Red-Hat®



No. 4ELF6

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max. Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	110/120VAC Max. Operating Pressure Diff. Air/Inert Gas	110/120VAC Max. Operating Pressure Diff. Water	110/120VAC Max. Operating Pressure Diff. Light Oil	Item No
2-Way/2-Position											
Normally Open, Brass Body - DIN Connection - NBR Gaskets											
½"	⅜"	4	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G034	0 psi	150	150	125 psi	**4ELH7**
¾"	¾"	5	F		180°F	SC8210G035	0 psi	150	150	125 psi	**4ELJ1**
Normally Open, Brass Body - FKM Gaskets											
¾"	¾"	5.5	F	1, 2, 3, 3S, 4, 4X	180°F	8210G035V	0 psi	150 psi	150 psi	125 psi	**4EKZ3**



No. 6WTU6



No. 6ZAK4



No. 3UL13

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max. Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120VAC Max. Operating Pressure Diff. Air/Inert Gas	120VAC Max. Operating Pressure Diff. Water	120VAC Max. Operating Pressure Diff. Light Oil	Item No	24VDC Max. Operating Pressure Diff. Air/Inert Gas	24VDC Max. Operating Pressure Diff. Water	24VDC Max. Operating Pressure Diff. Light Oil	Item No
2-Way/2-Position															
Normally Closed, 22mm, Brass Body, DIN Connection - FKM Gaskets															
⅛"	1/16"	0.08	F	4, 4X	180°F	SC8256A002V	0 psi	—	—	—	—	220 psi	220 psi	220 psi	**4ELC5**
⅛"	7/64"	0.19	F	4, 4X	180°F	SC8256B045V	0 psi	—	—	—	—	63 psi	63 psi	63 psi	**4ELC4**
Normally Closed, Brass Body, DIN Connection - NBR Gaskets															
¼"	5/32"	0.52	F	1, 2, 3, 3S, 4, 4X	180°F	SC8262H202E	0 psi	210 psi	200 psi	145 psi	**6ZAK7**	—	—	—	—
⅜"	⅜"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G093	0 psi	150 psi	150 psi	Not Rated	**4ELF6**	—	—	—	—
⅜"	⅜"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G001	5 psi	200 psi	150 psi	135 psi	**6FAY8**	—	—	—	—
½"	⅜"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G094	0 psi	150 psi	150 psi	Not Rated	**4EKR5**	—	—	—	—
½"	⅜"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G002	5 psi	200 psi	150 psi	135 psi	**4ELG6**	—	—	—	—
½"	⅜"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	SC8210G094	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**4ELF7**
½"	⅜"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	SC8210G002	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**4EKR7**
¾"	¾"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G009	5 psi	125 psi	125 psi	125 psi	**4ELH1**	—	—	—	—
¾"	¾"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G095	0 psi	150 psi	150 psi	Not Rated	**4ELH3**	—	—	—	—
¾"	¾"	6.50	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G003	5 psi	250 psi	150 psi	100 psi	**4ELG7**	—	—	—	—
¾"	¾"	6.50	F	1, 2, 3, 3S, 4, 4X	150°F	SC8210G003	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**4ELG8**
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G004	5 psi	150 psi	150 psi	100 psi	**4ELG9**	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G054	0 psi	150 psi	125 psi	125 psi	**4ELF5**	—	—	—	—
1½"	1¼"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210G056	0 psi	150 psi	125 psi	125 psi	**6FAZ0**	—	—	—	—
1½"	1¼"	22.50	F	1, 2, 3, 3S, 4, 4X	150°F	SC8210G022	5 psi	—	—	—	—	125 psi	250 psi	125 psi	**6FAY9**
Normally Closed, Brass Body - EPDM Gaskets															
⅜"	⅝"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G001E	5 psi	200 psi	150 psi	135 psi	**6DYL0**	—	—	—	—
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G002E	5 psi	200 psi	150 psi	135 psi	**6DYL1**	—	—	—	—
Normally Closed, Brass Body - FKM Gaskets															
⅛"	3/64"	0.05	F	4, 4X	180°F	U8256A001V	0 psi	—	—	—	—	360 psi	360 psi	330 psi	**4ELC2**
⅛"	1/16"	0.08	F	4, 4X	180°F	U8256A002V	0 psi	—	—	—	—	220 psi	220 psi	220 psi	**4ELC3**
⅛"	3/32"	0.21	F	1, 2, 3, 3S, 4, 4X	210°F	8262H011V	0 psi	500	350 psi	350 psi	**6ZAK2**	—	—	—	—
⅛"	7/64"	0.19	F	4, 4X	180°F	U8256B045V	0 psi	—	—	—	—	63 psi	63 psi	63 psi	**4ELC1**
¼"	3/32"	0.21	F	1, 2, 3, 3S, 4, 4X	210°F	8262H021V	0 psi	500	350 psi	350 psi	**6YEJ8**	—	—	—	—
¼"	7/32"	0.73	F	1, 2, 3, 3S, 4, 4X	180°F	8262H208V	0 psi	100 psi	100 psi	100 psi	**6WTN4**	—	—	—	—
¼"	7/32"	0.73	F	1, 2, 3, 3S, 4, 4X	180°F	8262H013V	0 psi	55 psi	54 psi	40 psi	**6YEK1**	—	—	—	—
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G094V	0 psi	150 psi	150 psi	Not Rated	**4EKT2**	—	—	—	—
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G002V	5 psi	200 psi	150 psi	135 psi	**4EKR9**	—	—	—	—
¾"	¾"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G095VH	0 psi	150 psi	150 psi	Not Rated	**4EKV2**	—	—	—	—
¾"	¾"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G095V	0 psi	150 psi	150 psi	Not Rated	**6DYN8**	—	—	—	—
¾"	¾"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G009V	5 psi	125 psi	125 psi	125 psi	**4EKV1**	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G054V	0 psi	150 psi	125 psi	125 psi	**4EKP4**	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G004V	5 psi	150 psi	150 psi	100 psi	**4EKP6**	—	—	—	—
Normally Closed, Brass Body - NBR Gaskets															
⅛"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8262H001	0 psi	750 psi	750 psi	725 psi	**6WTN8**	—	—	—	—
⅛"	3/32"	0.21	F	1, 2, 3, 3S, 4, 4X	180°F	8262H014	0 psi	370 psi	330 psi	190 psi	**6WTP3**	—	—	—	—
⅛"	3/32"	0.21	H	1, 2, 3, 3S, 4, 4X	180°F	8262H014	0 psi	—	—	—	—	235 psi	160 psi	160 psi	**6WTU3**
⅛"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H002	0 psi	185 psi	180 psi	120 psi	**6WTP0**	—	—	—	—
⅛"	⅛"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H002	0 psi	—	—	—	—	130 psi	110 psi	95 psi	**6WTW5**
¼"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	140°F	8262H200	0 psi	1500 psi	1500 psi	1500 psi	**6WTT0**	—	—	—	—
¼"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	140°F	SC8262H200	0 psi	1500 psi	1500 psi	1500 psi	**6WTU6**	—	—	—	—
¼"	3/32"	0.21	F	1, 2, 3, 3S, 4, 4X	180°F	8262H021	0 psi	500 psi	350 psi	270 psi	**6WTT5**	—	—	—	—
¼"	3/32"	0.21	F	1, 2, 3, 3S, 4, 4X	180°F	8262H020	0 psi	370 psi	330 psi	160 psi	**6ZAK3**	—	—	—	—
¼"	3/32"	0.21	H	1, 2, 3, 3S, 4, 4X	180°F	8262H020	0 psi	—	—	—	—	235 psi	160 psi	160 psi	**6ZAJ9**
¼"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H232	0 psi	340 psi	300 psi	215 psi	**6WTN1**	—	—	—	—
¼"	⅛"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H022	0 psi	—	—	—	—	130 psi	110 psi	90 psi	**6ZAK0**
¼"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H022	0 psi	185 psi	180 psi	90 psi	**6WTP4**	—	—	—	—
¼"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	SC8262H232	0 psi	340 psi	300 psi	215 psi	**6WTU9**	—	—	—	—
¼"	⅛"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H232	0 psi	—	—	—	—	130 psi	125 psi	115 psi	**6WTW4**
¼"	5/32"	0.52	H	1, 2, 3, 3S, 4, 4X	180°F	8262H202	0 psi	—	—	—	—	65 psi	63 psi	63 psi	**6ZAK1**
¼"	5/32"	0.52	F	1, 2, 3, 3S, 4, 4X	180°F	SC8262H202	0 psi	210 psi	200 psi	145 psi	**6WTU7**	—	—	—	—
¼"	5/32"	0.52	F	1, 2, 3, 3S, 4, 4X	180°F	8262H202	0 psi	210 psi	200 psi	145 psi	**6WTP6**	—	—	—	—
¼"	7/32"	0.73	F	1, 2, 3, 3S, 4, 4X	180°F	SC8262H208	0 psi	100 psi	100 psi	100 psi	**6WTU8**	—	—	—	—
¼"	7/32"	0.73	F	1, 2, 3, 3S, 4, 4X	210°F	8262H208	0 psi	100 psi	100 psi	100 psi	**6WTP8**	—	—	—	—
¼"	7/32"	0.73	H	1, 2, 3, 3S, 4, 4X	180°F	8262H208	0 psi	—	—	—	—	30 psi	30 psi	30 psi	**6WTW2**
¼"	9/32"	1	F	1, 2, 3, 3S, 4, 4X	125°F	8262H078	0 psi	50 psi	50 psi	—	**6ZAK4**	—	—	—	—
¼"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	8262H210	0 psi	65 psi	75 psi	60 psi	**6WTV5**	—	—	—	—
¼"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	8262H212	0 psi	90 psi	90 psi	90 psi	**6WTR0**	—	—	—	—
¼"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	8262H090	0 psi	36 psi	36 psi	33 psi	**6WTV2**	—	—	—	—
¼"	9/32"	0.88	H	1, 2, 3, 3S, 4, 4X	180°F	8262H090	0 psi	—	—	—	—	27 psi	23 psi	21 psi	**6WTW1**
¼"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	SD8262H212	0 psi	90 psi	90 psi	90 psi	**6WTV0**	—	—	—	—
¼"	5/16"	1.20	F	1, 2, 3, 3S, 4, 4X	180°F	8210B020	5 psi	125 psi	125 psi	Not Rated	**3UK18**	—	—	—	—
⅜"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	8263H210	0 psi	100 psi	85 psi	70 psi	**6WTN0**	—	—	—	—
⅜"	5/16"	1.20	F	1, 2, 3, 3S, 4, 4X	180°F	8210B021	5 psi	125 psi	125 psi	Not Rated	**3UK19**	—	—	—	—
⅜"	⅜"	1.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G073	5 psi	150 psi	125 psi	Not Rated	**3UL01**	—	—	—	—
⅜"	⅝"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G001	5 psi	200 psi	150 psi	135 psi	**3UK48**	—	—	—	—
⅜"	⅝"	3.00	F	1, 2, 3, 3S, 4, 4X	175°F	8210G006	5 psi	300 psi	300 psi	300 psi	**3UK64**	—	—	—	—
⅜"	⅝"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G093	0 psi	150 psi	150 psi	Not Rated	**3UL10**	—	—	—	—
⅜"	⅝"	3.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G001	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**5LE97**
⅜"	⅜"	3.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G093	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LE96**
½"	⅜"	3.20	F	1, 2, 3, 3S, 4, 4X	200°F	8223G003	25 psi	1500 psi	1500 psi	1500 psi	**4KY38**	—	—	—	—
½"	7/16"	2.20	F	1, 2, 3, 3S, 4, 4X	180°F	8210G015	5 psi	150 psi	125 psi	Not Rated	**3UK76**	—	—	—	—
½"	7/16"	2.20	F	1, 2, 3, 3S, 4, 4X	150°F	8210G015	5 psi	—	—	—	—	40 psi	40 psi	Not Rated	**4EKR8**
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G002	5 psi	200 psi	150 psi	135 psi	**3UK51**	—	—	—	—
½"	⅝"	3.6	F	1, 2, 3, 3S, 4, 4X	125°F	8210G075	0 psi	50 psi	50 psi	—	**6DYN4**	—	—	—	—
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G094	0 psi	150 psi	150 psi	Not Rated	**3UL13**	—	—	—	—
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	JKF8210G094	0 psi	150 psi	150 psi	Not Rated	**4EKR4**	—	—	—	—
½"	⅝"	4.00	H	1, 2, 3, 3S, 4, 4X	180°F	HT8210G002	5 psi	200 psi	150 psi	135 psi	**4ELE8**	—	—	—	—
½"	⅜"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G094	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LE98**
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G002	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**5LU11**
½"	⅝"	4.00	F	1, 2, 3, 3S, 4, 4X	175°F	8210G007	5 psi	300 psi	300 psi	300 psi	**3UK66**	—	—	—	—

CONTINUED

CONTINUED

2- and 3-Way General-Purpose Solenoid Valves

ASCO™ Red-Hat®

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max. Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120VAC Max. Operating Pressure Diff. Air/ Inert Gas	Water	Light Oil	Item No	24VDC Max. Operating Pressure Diff. Air/ Inert Gas	Water	Light Oil	Item No
2-Way/2-Position (Cont.)															
Normally Closed, Brass Body - NBR Gaskets (Cont.)															
1/2"	5/8"	4.00	H	1, 2, 3, 3S, 4, 4X	180°F	HT8210G094	0 psi	150 psi	150 psi	Not Rated	4ELF3	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G094MO	0 psi	150 psi	150 psi	Not Rated	6DYN7	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G002MO	5 psi	200 psi	150 psi	135 psi	6DYL2	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G002Q	5 psi	200 psi	150 psi	135 psi	6DYL3	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G094N	0 psi	150 psi	150 psi	Not Rated	4EKT1	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G009	5 psi	125 psi	125 psi	125 psi	3UK70	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	JKF8210G009	5 psi	125 psi	125 psi	125 psi	4EKV4	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G095	0 psi	150 psi	150 psi	Not Rated	3UL19	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	JKF8210G095	0 psi	150 psi	150 psi	Not Rated	4EKV5	—	—	—	—
3/4"	3/4"	5.00	H	1, 2, 3, 3S, 4, 4X	180°F	HT8210G009	5 psi	125 psi	125 psi	125 psi	4ELF1	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G009MO	5 psi	125 psi	125 psi	125 psi	6DYL6	—	—	—	—
3/4"	3/4"	6.00	F	1, 2, 3, 3S, 4, 4X	200°F	8210G026	0 psi	350 psi	300 psi	200 psi	5JC36	—	—	—	—
3/4"	3/4"	6.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G003	5 psi	250 psi	150 psi	100 psi	3UK58	—	—	—	—
3/4"	3/4"	6.50	F	1, 2, 3, 3S, 4, 4X	180°F	JKF8210G003	5 psi	250 psi	150 psi	100 psi	4EKV3	—	—	—	—
3/4"	3/4"	6.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G003B	5 psi	250 psi	150 psi	100 psi	6DYL4	—	—	—	—
3/4"	3/4"	7.80	F	1, 2, 3, 3S, 4, 4X	200°F	8223G005	25 psi	750 psi	750 psi	750 psi	4KY39	—	—	—	—
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G009	5 psi	—	—	—	—	100 psi	90 psi	75 psi	5LU15
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G095	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	5LU14
3/4"	3/4"	6.50	F	1, 2, 3, 3S, 4, 4X	150°F	8210G003	5 psi	—	—	—	—	125 psi	125 psi	125 psi	5LU16
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G004	5 psi	150 psi	150 psi	100 psi	3UK60	—	—	—	—
1"	1"	13.00	H	1, 2, 3, 3S, 4, 4X	180°F	HT8210G004	5 psi	150 psi	150 psi	100 psi	4ELE9	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	JKF8210G004	5 psi	150 psi	150 psi	100 psi	4EKP7	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G004MO	5 psi	150 psi	150 psi	100 psi	6DYL5	—	—	—	—
1"	1"	13.00	H	1, 2, 3, 3S, 4, 4X	180°F	HT8210G054	0 psi	150 psi	125 psi	125 psi	4ELF2	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G054	0 psi	150 psi	125 psi	125 psi	5JC40	—	—	—	—
1"	1"	13.50	F	1, 2, 3, 3S, 4, 4X	200°F	8210G027	0 psi	300 psi	225 psi	115 psi	5JC38	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G004	5 psi	—	—	—	—	125 psi	125 psi	125 psi	5LU18
1 1/4"	1 1/8"	15.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G008	5 psi	150 psi	150 psi	100 psi	4EKN7	—	—	—	—
1 1/4"	1 1/8"	15.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G055	0 psi	150 psi	125 psi	125 psi	5JC44	—	—	—	—
1 1/4"	1 1/8"	15.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G008	5 psi	—	—	—	—	125 psi	125 psi	125 psi	5LU19
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G022MO	5 psi	150 psi	150 psi	100 psi	6DYL9	—	—	—	—
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G022	5 psi	150 psi	150 psi	100 psi	3UK79	—	—	—	—
1 1/2"	1 1/4"	22.50	H	1, 2, 3, 3S, 4, 4X	180°F	8210B056	0 psi	150 psi	125 psi	125 psi	6DYK9	—	—	—	—
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G056	0 psi	150 psi	125 psi	125 psi	5JC46	—	—	—	—
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	150°F	8210G022	5 psi	—	—	—	—	125 psi	125 psi	125 psi	5LU20
1 1/2"	1 1/4"	22.50	F	4X	180°F	8210G056 24/DC	0 psi	—	—	—	—	135 psi	120 psi	120 psi	53AY48
2"	1 3/4"	43.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G100	5 psi	150 psi	125 psi	90 psi	3UL25	—	—	—	—
2"	1 3/4"	43.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G100	5 psi	—	—	—	—	50 psi	50 psi	50 psi	4EMF4
2 1/2"	1 3/4"	45.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G101	5 psi	150 psi	125 psi	90 psi	4KY37	—	—	—	—
Normally Closed, Brass Body - Nylon Gaskets															
3/8"	5/16"	1.50	F	1, 2, 3, 3S, 4, 4X	200°F	8223G023	10 psi	750 psi	750 psi	750 psi	4EKU4	—	—	—	—
Normally Closed, Brass Body - PTFE Gaskets															
1/4"	5/32"	0.52	F	1, 2, 3, 3S, 4, 4X	180°F	8262H202T	0 psi	210 psi	200 psi	145 psi	6WTT6	—	—	—	—
1/2"	3/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	JSF8210G002	5 psi	200 psi	150 psi	135 psi	4EKR3	—	—	—	—
Normally Closed, Plastic Body Open Frame - NBR Gaskets															
1/4"	1/8"	0.30	F	1, 2, 3, 3S, 4, 4X	125°F	USM8260100	0 psi	125 psi	—	Not Rated	4EKX4	—	—	—	—
Normally Closed, Stainless Steel Body, DIN Connection - NBR Gaskets															
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	SC8210G087	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	6FAZ1
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	175°F	SD8210G087	0 psi	150 psi	150 psi	125 psi	6FAZ5	—	—	—	—
Normally Closed, Stainless Steel Body - EPDM Gaskets															
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	175°F	8210G087E	0 psi	150 psi	150 psi	125 psi	6DYN5	—	—	—	—
Normally Closed, Stainless Steel Body - NBR Gaskets															
1/8"	1/8"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H006	0 psi	185 psi	180 psi	120 psi	6WTP1	—	—	—	—
1/4"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8262H080	0 psi	750 psi	750 psi	725 psi	6WTV1	—	—	—	—
1/4"	3/32"	0.21	H	1, 2, 3, 3S, 4, 4X	180°F	8262H086	0 psi	—	—	—	—	235 psi	160 psi	160 psi	6WTR9
1/4"	1/8"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H007	0 psi	185 psi	180 psi	90 psi	6WTP2	—	—	—	—
1/4"	1/8"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H007	0 psi	—	—	—	—	130 psi	110 psi	90 psi	6WTR6
1/4"	5/32"	0.52	F	1, 2, 3, 3S, 4, 4X	180°F	8262H220	0 psi	210 psi	200 psi	145 psi	6WTR2	—	—	—	—
1/4"	7/32"	0.73	F	1, 2, 3, 3S, 4, 4X	180°F	8262H226	0 psi	100 psi	100 psi	100 psi	6WTR3	—	—	—	—
1/4"	9/32"	0.88	F	1, 2, 3, 3S, 4, 4X	180°F	8262H230	0 psi	90 psi	90 psi	90 psi	6WTR4	—	—	—	—
3/8"	3/8"	1.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G036	5 psi	150 psi	125 psi	Not Rated	3UK91	—	—	—	—
3/8"	3/8"	1.50	F	1, 2, 3, 3S, 4, 4X	150°F	8210G036	5 psi	—	—	—	—	40 psi	40 psi	Not Rated	6DYN1
1/2"	7/16"	2.20	F	1, 2, 3, 3S, 4, 4X	180°F	8210G037	5 psi	150 psi	125 psi	Not Rated	3UK93	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	175°F	8210G087	0 psi	150 psi	150 psi	125 psi	3UL05	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G087	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	5LE99
3/4"	5/8"	4.50	F	1, 2, 3, 3S, 4, 4X	175°F	8210G088	0 psi	150 psi	150 psi	125 psi	3UL07	—	—	—	—
3/4"	5/8"	4.50	F	1, 2, 3, 3S, 4, 4X	150°F	8210G088	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	5LU13
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G089	0 psi	150 psi	125 psi	125 psi	5JC50	—	—	—	—
Normally Open, Brass Body - DIN Connection - NBR Gaskets															
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	SC8210D032	5 psi	—	—	—	—	125 psi	125 psi	125 psi	6FAY7
Normally Open, Brass Body - NBR Gaskets															
1/8"	1/8"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H129	0 psi	160 psi	145 psi	70 psi	39P476	—	—	—	—
1/4"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8262H260	0 psi	750 psi	750 psi	750 psi	39P477	—	—	—	—
1/4"	3/64"	0.06	H	1, 2, 3, 3S, 4, 4X	180°F	8262H260	0 psi	—	—	—	—	650 psi	650 psi	400 psi	39P478
1/4"	3/32"	0.21	H	1, 2, 3, 3S, 4, 4X	180°F	8262H261	0 psi	275 psi	230 psi	180 psi	39P479	—	—	—	—
1/4"	1/8"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	8262H262	0 psi	—	—	—	—	100 psi	100 psi	70 psi	39P480
1/4"	1/8"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H262	0 psi	160 psi	145 psi	125 psi	39P481	—	—	—	—
1/4"	5/32"	0.54	F	1, 2, 3, 3S, 4, 4X	180°F	8262H263	0 psi	90 psi	90 psi	70 psi	39P482	—	—	—	—
1/4"	9/32"	0.96	F	1, 2, 3, 3S, 4, 4X	180°F	8262H265	0 psi	30 psi	30 psi	30 psi	39P483	—	—	—	—
1/4"	9/32"	0.96	H	1, 2, 3, 3S, 4, 4X	180°F	8262H265	0 psi	—	—	—	—	20 psi	17 psi	17 psi	39P484
3/8"	5/8"	4.60	F	1, 2, 3, 3S, 4, 4X	180°F	8210G033VH	0 psi	15 psi	—	Not Rated	4EKZ7	—	—	—	—
3/8"	5/8"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G033	0 psi	150 psi	150 psi	125 psi	3UK85	—	—	—	—
3/8"	5/8"	3.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G033	0 psi	—	—	—	—	125 psi	125 psi	80 psi	2LBH6
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G034	0 psi	150 psi	150 psi	125 psi	3UK87	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G012	5 psi	250 psi	200 psi	200 psi	6DYL7	—	—	—	—
1/2"	5/8"	4.00	F	1, 2, 3, 3S, 4, 4X	150°F	8210G034	0 psi	—	—	—	—	125 psi	125 psi	80 psi	2LBH4
3/4"	3/4"	5.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G035	0 psi	150 psi	150 psi	125 psi	3UK89	—	—	—	—
3/4"	3/4"	6.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G013	5 psi	250 psi	200 psi	200 psi	6DYL8	—	—	—	—
3/4"	3/4"	5.50	F	1, 2, 3, 3S, 4, 4X	150°F	8210G035	0 psi	—	—	—	—	125 psi	125 psi	80 psi	2LBH5
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210B057	0 psi	125 psi	125 psi	125 psi	4KY35	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G014	5 psi	150 psi	150 psi	125 psi	4EKY9	—	—	—	—
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210D014	5 psi	—	—	—	—	125 psi	125 psi	125 psi	4EMF1
1 1/4"	1 1/8"	15.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G018	5 psi	150 psi	150 psi	125 psi	4EMF6	—	—	—	—
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210B059	0 psi	125 psi	125 psi	125 psi	4KY36	—	—	—	—
1 1/2"	1 1/4"	22.50	F	1, 2, 3, 3S, 4, 4X	180°F	8210G032	5 psi	150 psi	150 psi	125 psi	4EKY8	—	—	—	—
2"	1 3/4"	43.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G103	5 psi	125 psi	125 psi	125 psi	4EKY7	—	—	—	—
2 1/2"	1 3/4"	45.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G104	5 psi	125 psi	125 psi	125 psi	6DYP0	—	—	—	—
Normally Open, Stainless Steel Body - NBR Gaskets															
1/4"	1/8"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	8262H138	0 psi	145 psi	145 psi	125 psi	39P485	—	—	—	—
1/2"	5/8"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G030	0 psi	150 psi	150 psi	100 psi	3UK83	—	—	—	—
3/4"	5/8"	3.00	F	1, 2, 3, 3S, 4, 4X	180°F	8210G038	0 psi	150 psi	150 psi	100 psi	3UK95	—	—	—	—


No. 4EKR3


No. 4EKX4


No. 6WTR9


No. 2LBH5


No. 4EKY9

CONTINUED



No. 4ELF8

ASCO Red-Hat

2- and 3-Way General-Purpose Solenoid Valves

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max. Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120VAC Max. Operating Pressure Diff. Air/ Inert Gas	Water	Light Oil	Item No	24VDC Max. Operating Pressure Diff. Air/ Inert Gas	Water	Light Oil	Item No
3-Way/2-Position															
Normally Closed, Brass Body - NBR Gaskets															
1/8"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8320G132	0 psi	200 psi	200 psi	200 psi	**24W635**	—	—	—	—
1/4"	1/16"	0.09	F	1, 2, 3, 3S, 4, 4X	150°F	8320G182	0 psi	—	—	—	—	160 psi	160 psi	160 psi	**24W643**
1/4"	1/16"	0.09	F	1, 2, 3, 3S, 4, 4X	200°F	8320G182	0 psi	210 psi	225 psi	225 psi	**44U295**	—	—	—	—
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	150°F	8320G184	0 psi	—	—	—	—	150 psi	150 psi	150 psi	**24W628**
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	8320G089	0 psi	110 psi	110 psi	110 psi	**44U291**	—	—	—	—
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	8320G184MO	0 psi	150 psi	150 psi	150 psi	**44U296**	—	—	—	—
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	8320G184MS	0 psi	150 psi	150 psi	150 psi	**44U297**	—	—	—	—
3/8"	5/8"	2.50	F	1, 2, 3, 3S, 4, 4X	180°F	8316G054	10 psi	150 psi	125 psi	Not Rated	**24W665**	—	—	—	—
3/8"	5/8"	2.50	F	1, 2, 3, 3S, 4, 4X	180°F	8316G014	10 psi	250 psi	250 psi	Not Rated	**44U286**	—	—	—	—
1/2"	5/8"	3.20	F	1, 2, 3, 3S, 4, 4X	180°F	8316G064	10 psi	150 psi	125 psi	Not Rated	**24W630**	—	—	—	—
1/2"	5/8"	3.20	F	1, 2, 3, 3S, 4, 4X	180°F	8316G024	10 psi	250 psi	250 psi	Not Rated	**24W672**	—	—	—	—
3/4"	1 1/16"	4.80	F	1, 2, 3, 3S, 4, 4X	180°F	8316G074	10 psi	150 psi	125 psi	Not Rated	**24W676**	—	—	—	—
1"	1"	12.50	F	1, 2, 3, 3S, 4, 4X	180°F	8316G034	10 psi	150 psi	125 psi	Not Rated	**24W675**	—	—	—	—
Normally Open, Brass Body - NBR Gaskets															
1/8"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8320G136	0 psi	200 psi	200 psi	200 psi	**24W633**	—	—	—	—
1/8"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	8320G136MS	0 psi	200 psi	200 psi	200 psi	**44U293**	—	—	—	—
1/4"	1/16"	0.09	F	1, 2, 3, 3S, 4, 4X	200°F	8320G192	0 psi	235 psi	250 psi	250 psi	**24W639**	—	—	—	—
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	8320G194	0 psi	150 psi	140 psi	140 psi	**24W634**	—	—	—	—
3/8"	3/8"	2.50	F	1, 2, 3, 3S, 4, 4X	180°F	8316G016	10 psi	250 psi	250 psi	Not Rated	**44U287**	—	—	—	—
Universal, Brass Body - NBR Gaskets															
1/8"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	140°F	8320G130	0 psi	175 psi	175 psi	175 psi	**44U292**	—	—	—	—
Universal, Plastic Body - Buna-N Gaskets															
1/4"	1/16"	0.07	F	1, 2, 3, 3S, 4, 4X	130°F	8360G071	0 psi	100 psi	100 psi	—	**44U314**	—	—	—	—
Universal, Stainless Steel Body - NBR Gaskets															
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	8320G200	5 psi	100 psi	100 psi	100 psi	**4ELF8**	—	—	—	—
3-Way/2-Position, Universal, Brass Body - NBR Gaskets 24VDC															
1/4"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	150°F	8320G174	0 psi	—	—	—	—	60 psi	60 psi	60 psi	**44U294**

2-Way Normally Closed Dust Collector Solenoid Valves

High-flow aluminum valves use a powerful pulse of air to separate dust and particulate from filters and bags. NBR gasket. Remote pilot valves require separate solenoid valves. Integral pilot valves feature watertight type molded epoxy solenoid coils with ½" conduit hub. Coil included. Valves have NPT pipe connections (except No. 5LU48 is compression connection).



No. 5LU48

ASCO Red-Hat



No. 5LU51



No. 5LU53

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Air/Inert Gas	Max. Fluid Temp.	Voltage	Watts	Mfr. Model	Item No.
Dust Collector Solenoid Valve											
3/4"	1 1/8"	15.00	F	1, 2, 3, 3S, 4, 4X	5 psi	125 psi	150°F	120VAC	6.1	8353G052	**5LU48**
1"	1 1/8"	20.00	F	1, 2, 3, 3S, 4, and 4X	5 psi	125 psi	185°F	120VAC	6.1	8353G041	**5LU50**
1 1/2"	2"	53.00	F	1, 2, 3, 3S, 4, 4X	5 psi	125 psi	150°F	120VAC	10.1	8353J039	**5LU52**
Remote Piloted Dust Collector Valve											
3/4"	3/4"	10.50	—	—	5 psi	125 psi	185°F	—	—	8353C033	**5LU47**
1"	1 1/8"	20.00	—	—	5 psi	125 psi	185°F	—	—	8353C035	**5LU49**
1 1/2"	2"	53.00	—	—	10 psi	125 psi	185°F	—	—	8353H038	**5LU51**

For Use With Grainger Item Number	Mfr. Model	Item No.
Solenoid Valve Rebuild Kits		
5LU47, 3UK31	96875	**5LU53**
5LU52	322108	**5LU54**
3UK32, 5LU49	200262	**5LU55**
5LU48, 5LU50	316563	**5LU56**
5LU51	276886	**5LU57**



No. 3UL37

No. 4EMD4

No. 3UL38

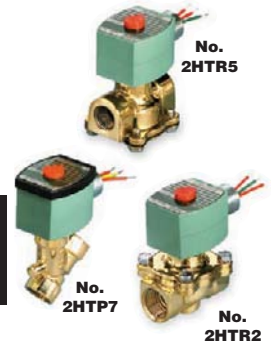
2-Way Normally Closed Slow-Closing Solenoid Valves

ASCO Red-Hat

- Max. fluid temp.: 180°F
- Brass body

Slow-closing design reduces the pressure spike and brings the water hammer to a level that eliminates the need for suppressors or other controls. Coil included.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Water	Voltage	Watts	Mfr. Model	Item No.
Slow Closing Solenoid Valve										
3/8"	9/16"	3.00	F	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	120VAC	6.1	8221G001	**3UL35**
1/2"	9/16"	3.50	F		5 psi	150 psi	120VAC	6.1	8221G003	**3UL36**
3/4"	3/4"	5.50	F		5 psi	150 psi	120VAC	6.1	8221G005	**3UL37**
1"	1"	11.50	F		5 psi	150 psi	120VAC	6.1	8221G007	**3UL38**
1 1/4"	1 1/8"	13.00	F		5 psi	150 psi	120VAC	6.1	8221G009	**3UL39**
1 1/2"	1 1/4"	24.00	F		5 psi	150 psi	120VAC	6.1	8221G011	**3UL40**
2"	1 3/4"	36.00	F		5 psi	150 psi	120VAC	6.1	8221G013	**3UL41**
Slow Closing Hot Water Solenoid Valve										
1/2"	9/16"	3.50	—	1, 2, 3, 3S, 4, 4X	5 psi	—	120VAC	6.1	8221G003HW	**4EMD4**
1"	1"	11.50	F		5 psi	—	120VAC	6.1	8221G007HW	**5LU30**



No. 2HTR5

No. 2HTP7

No. 2HTR2

Low-Pressure Normally Closed and Normally Open Solenoid Valves

ASCO Red-Hat

- Brass body with NBR gasket

Ideal for dispensing, collating, gas shutoff, vacuum holding, and tank draining. Normally open valves operate at low pressures with no minimum required; well suited for venting systems. Coil included. CSA and CE Certified; except No. 4EKU3 is FM Approved, UL Recognized, and CSA Certified.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Water	Max. Fluid Temp.	Voltage	Watts	Mfr. Model	Item No.
Solenoid Valve, Normally Open											
1/2"	7/16"	2.20	F	7	0 psi	15 psi	200°F	120VAC	20.1	8030G071	**2HTR4**
3/4"	3/4"	5.50	F	1, 2, 3, 3S, 4, 4X	0 psi	2 psi	180°F	120VAC	10.1	8030G083	**2HTR5**
Solenoid Valve, Normally Closed											
3/8"	3/8"	1.80	F	1, 2, 3, 3S, 4, 4X	0 psi	5 psi	180°F	120VAC	6.1	8030G010	**2HTP7**
3/8"	3/8"	1.80	F		0 psi	15 psi	200°F	120VAC	10.1	8030G013	**2HTP8**
1/2"	7/16"	2.80	F		0 psi	6 psi	125°F	120VAC	6.1	8030G016	**2HTP9**
1/2"	7/16"	2.80	F	7	0 psi	15 psi	200°F	120VAC	16.1	8030G017	**2HTR1**
3/4"	3/4"	5.00	F	1, 2, 3, 3S, 4, 4X	0 psi	2 psi	200°F	120VAC	10.1	8030G003	**2HTR2**
3/4"	3/4"	5.00	F		0 psi	4 psi	180°F	120VAC	17.1	8030G043	**2HTR3**
Medium Vacuum Solenoid Valve, Normally Closed											
3/8"	3/8"	1.80	F	1, 2, 3, 3S, 4, 4X	0 psi	—	180°F	120VAC	10.1	8030G013VM	**4EKU3**

12VDC, 24VAC, and 240VAC General-Purpose Solenoid Valves

ASCO
Red-Hat®

1-pc. molded epoxy coil enclosures have built-in ½" NPT conduit hubs with strain relief. Normally open valves close when energized. Normally closed valves open when energized.

2-WAY

High-flow valves for liquid, corrosive, and air/inert gas service in applications such as car washes, air compressors, pumps, laundry equipment, and industrial water control.

3-WAY

Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from valve actuators and single-acting cylinders.

3-WAY UNIVERSAL

Can connect as either normally open or normally closed to select or direct fluids to different ports.

Pipe Size	Orifice Dia.	Cv	Coil Insul. Class	NEMA Rating	Max. Fluid Temp.	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air/Inert Gas	Water	Light Oil	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Brass Body - FKM Gaskets											
24VAC											
⅛"	7/64"	1.19	F	4, 4X	180°F	0 psi	135 psi	126 psi	80 psi	SC8256B045V	**4ELA1**
2-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
12VDC											
⅛"	⅛"	0.35	H	1, 2, 3, 3S, 4, 4X	180°F	0 psi	130 psi	110 psi	95 psi	8262H002	**6WTU2**
	3/32"	0.21	H		180°F	0 psi	235 psi	160 psi	160 psi	8262H014	**6WTU5**
¼"	⅛"	0.35	H		180°F	0 psi	130 psi	110 psi	90 psi	8262H022	**6WTT7**
	3/32"	0.21	H		180°F	0 psi	235 psi	160 psi	60 psi	8262H020	**6WTU0**
⅜"	5/16"	3.00	F		150°F	0 psi	40 psi	40 psi	Not Rated	8210G093	**4EKU1**
	5/16"	3.00	F		150°F	5 psi	125 psi	100 psi	100 psi	8210G001	**4EKT9**
½"	5/16"	4.00	F		150°F	0 psi	40 psi	40 psi	Not Rated	8210G094	**2HTX6**
	5/16"	4.00	F		150°F	5 psi	125 psi	100 psi	100 psi	8210G002	**2HTX5**
	¾"	5.00	F		150°F	0 psi	40 psi	40 psi	Not Rated	8210G095	**4EKU7**
¾"	¾"	5.00	F		150°F	5 psi	100 psi	90 psi	75 psi	8210G009	**4EKU8**
	¾"	6.50	F		150°F	5 psi	125 psi	125 psi	125 psi	8210G003	**4EKV9**
1"	1"	13.00	F		150°F	5 psi	125 psi	125 psi	125 psi	8210G004	**4EKP5**
24/60VAC											
¼"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	185 psi	180 psi	90 psi	8262H022	**6WTR7**
24VAC											
⅛"	⅛"	0.35	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	185 psi	180 psi	120 psi	8262H002	**6WTN2**
¼"	7/32"	0.73	F		180°F	0 psi	100 psi	100 psi	100 psi	8262H208	**6WTT9**
	7/32"	0.73	F		180°F	0 psi	100 psi	100 psi	100 psi	OFKF8262H208	**6ZAK6**
⅜"	5/16"	3.00	F		180°F	5 psi	200 psi	150 psi	135 psi	8210G001	**4EKU2**
½"	5/16"	4.00	F		180°F	0 psi	150 psi	150 psi	Not Rated	8210G094	**2HTY1**
	5/16"	4.00	F		180°F	5 psi	200 psi	150 psi	135 psi	8210G002	**2HTX4**
	1/16"	2.20	F		180°F	5 psi	150 psi	125 psi	Not Rated	8210G015	**4EKT7**
	5/16"	4.00	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	150 psi	150 psi	Not Rated	SC8210G094	**6FAZ2**
¾"	¾"	4.00	F		180°F	0 psi	150 psi	150 psi	Not Rated	8210G095	**2HTX7**
	¾"	5.00	F		180°F	5 psi	125 psi	125 psi	125 psi	8210G009	**4EKV6**
1"	1"	13.00	F		180°F	5 psi	150 psi	150 psi	100 psi	8210G004	**4EKP1**
	1"	13.00	F		180°F	0 psi	150 psi	125 psi	125 psi	8210G054	**6DYN2**
1¼"	1⅛"	15.00	F		180°F	5 psi	150 psi	150 psi	100 psi	8210G008	**4EKN8**
1½"	1¼"	22.50	F		180°F	5 psi	150 psi	150 psi	100 psi	8210G022	**4EKN4**
	1¼"	22.50	F		180°F	0 psi	150 psi	125 psi	125 psi	8210G056	**6DYN3**
2"	1¾"	43.00	F		180°F	5 psi	150 psi	125 psi	90 psi	8210G100	**6DYN9**
240VAC											
⅛"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	750 psi	750 psi	725 psi	8262H001	**6WTN3**
	⅛"	0.35	H		180°F	0 psi	185 psi	180 psi	120 psi	8262H002	**6WTU4**
	⅛"	0.35	F		180°F	0 psi	185 psi	180 psi	90 psi	8262H022	**6WTR8**
¼"	5/32"	0.52	F		180°F	0 psi	210 psi	200 psi	145 psi	8262H202	**6WTT1**
	7/32"	0.73	F		180°F	0 psi	100 psi	100 psi	100 psi	8262H208	**6WTT8**
⅜"	5/16"	3.00	F		180°F	5 psi	200 psi	150 psi	135 psi	8210G001	**4EKU5**
½"	5/16"	4.00	F		180°F	5 psi	200 psi	150 psi	135 psi	8210G002	**4EKR2**
	1/16"	2.20	F		180°F	5 psi	150 psi	125 psi	Not Rated	8210G015	**4EKT4**
	5/16"	4.00	F		180°F	0 psi	150 psi	150 psi	Not Rated	8210G094	**4EKT5**
¾"	¾"	5.00	F		180°F	5 psi	125 psi	125 psi	125 psi	8210G009	**4EKV7**
	¾"	5.00	F		180°F	0 psi	150 psi	150 psi	Not Rated	8210G095	**4EKU9**
1"	1"	13.00	F		180°F	5 psi	150 psi	150 psi	100 psi	8210G004	**4EKR1**
2-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
24VAC											
1"	1"	13.00	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	150 psi	125 psi	125 psi	8210G089	**6DYN6**
2-Way/2-Position, Normally Open, Brass Body - NBR Gaskets											
24VAC											
¾"	¾"	5.50	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	150 psi	150 psi	125 psi	8210G035	**6DYN0**
3-Way/2-Position, Normally Closed, Brass Body											
24/60VAC											
⅛"	1/16"	0.09	F	4	180°F	0 psi	145 psi	145 psi	145 psi	SC8356A002V	**44U336**
3-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
12VDC											
¼"	1/32"	0.02	F	1, 2, 3, 3S, 4, 4X	140°F	0 psi	550 psi	600 psi	600 psi	8320A190	**4ELC9**
	1/16"	0.09	F		150°F	0 psi	160 psi	160 psi	160 psi	8320G182	**4ELD1**
3-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
24VDC											
¼"	3/32"	0.12	F	1, 2, 3, 3S, 4, 4X	200°F	0 psi	115 psi	115 psi	115 psi	8320G202	**44U301**
3-Way/2-Position, Universal, Brass Body - NBR Gaskets											
12VDC											
⅛"	3/64"	0.06	F	1, 2, 3, 3S, 4, 4X	120°F	0 psi	125 psi	125 psi	125 psi	8320G130	**4ELD3**
24VAC											
⅛"	1/16"	0.09	F	1, 2, 3, 3S, 4, 4X	180°F	0 psi	100 psi	100 psi	100 psi	8320G001	**4ELD2**
24VDC											
⅛"	1/16"	0.09	F	1, 2, 3, 3S, 4, 4X	120°F	0 psi	65 psi	65 psi	65 psi	8320G001	**44U289**
¼"	3/32"	0.12	F		150°F	0 psi	60 psi	60 psi	60 psi	8320G174	**44U294**

Pipe Size	Orifice Dia.	Cv	Coil Insul. Class	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Steam	Max. Fluid Temp. Hot Water	Steam	Watts	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Steam and Hot Water, Brass Body												
24VAC												
¾"	¾"	8.80	H	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	125 psi	210°F	353°F	10.1	8220G409	**6WTV9**
240VAC												
¾"	¾"	8.80	H	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	125 psi	210°F	353°F	10.1	8220G409	**6WTW0**



No. 2HTX6



No. 4EKV6



No. 6WTN3



No. 4ELC9



No. 6WTV9

ASCO Red-Hat®

2-, 3-, and 4-Way Intrinsically-Safe Solenoid Valves

- Coil insulation class: F, except Nos. 44U332, 6WTV8, and 4EMC9 are class H

Coil enclosures have a built-in ½" NPT conduit hub with strain relief. Designed to contain internal explosions without causing an external hazard for Type 7 Class 1, Division 1 and 2, Groups A, B, C, and D gases or vapors. Type 9 Class 2, Division 1 and 2, Groups E, F, and G. Normally closed valves close when de-energized. Normally open valves open when de-energized.

2-WAY

Provide high-flow levels for liquid, corrosive, and air/inert gas service.

3-WAY

Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from a valve actuator or single-acting cylinder. For Quick-Exhaust/Universal models air is exhausted through the exhaust orifice to quickly shift control valves to 0 psi.

4-WAY

Have 4 pipe connections, 1 pressure inlet, and 2 cylinder ports that provide pressure to a double-acting cylinder or actuator. A single outlet exhausts pressure from the cylinders.



No. 6FAX2



No. 6WTN9



No. 3UL06



No. 3UL08



No. 44U321



No. 6WTV8

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Max. Fluid Temp.	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Light Oil	Voltage	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, 316L Stainless Steel Body - NBR Gaskets											
¼"	⅛"	0.35	3, 3S, 4, 4X, 6, 6P, 7, 9	180°F	0 psi	185 psi	180 psi	90 psi	120VAC	EF8262H007	**6WTT2**
2-Way/2-Position, Normally Closed, Brass Body - FKM Gaskets											
1"	1"	13.00		180°F	5 psi	150 psi	150 psi	100 psi	120VAC	EF8210G004V	**6FAX2**
1½"	1¼"	22.50	1, 2, 3, 3S, 4, 4X, 7, 9	180°F	0 psi	150 psi	125 psi	125 psi	120VAC	EF8210G056V	**6FAX7**
2"	1¾"	43.00		180°F	5 psi	150 psi	125 psi	90 psi	120VAC	EF8210G100V	**6FAY1**
2-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
⅛"	3/32"	0.21		180°F	0 psi	370 psi	330 psi	190 psi	120VAC	EF8262H014	**6WTU1**
	⅛"	0.35		180°F	0 psi	185 psi	180 psi	120 psi	120VAC	EF8262H002	**6WTN9**
¼"	⅛"	0.35	3, 3S, 4, 4X, 6, 6P, 7, 9	180°F	0 psi	185 psi	180 psi	90 psi	120VAC	EF8262H022	**6WTP5**
	5/32"	0.52		180°F	0 psi	210 psi	200 psi	145 psi	120VAC	EF8262H202	**6WTP7**
	7/32"	0.73		180°F	0 psi	100 psi	100 psi	100 psi	120VAC	EF8262H208	**6WTP9**
	9/32"	0.88		180°F	0 psi	90 psi	90 psi	90 psi	120VAC	EF8262H212	**6WTR1**
	3/8"	1.50		180°F	5 psi	150 psi	125 psi	Not Rated	120VAC	EF8210G073	**3UL02**
3/8"	5/8"	3.00		180°F	0 psi	150 psi	150 psi	Not Rated	120VAC	EF8210G093	**3UL12**
	5/8"	3.00		180°F	5 psi	200 psi	150 psi	135 psi	120VAC	EF8210G001	**3UK50**
	5/8"	3.00		175°F	5 psi	300 psi	300 psi	300 psi	120VAC	EF8210G006	**3UK65**
	7/16"	2.20		180°F	5 psi	150 psi	125 psi	Not Rated	120VAC	EF8210G015	**3UK77**
	5/8"	4.00		150°F	5 psi	125 psi	100 psi	100 psi	24VDC	EF8210G002	**5LU12**
½"	5/8"	4.00		180°F	0 psi	150 psi	150 psi	Not Rated	120VAC	EF8210G094	**3UL15**
	5/8"	4.00		180°F	5 psi	200 psi	150 psi	135 psi	120VAC	EF8210G002	**3UK53**
	5/8"	4.00		175°F	5 psi	300 psi	300 psi	300 psi	120VAC	EF8210G007	**3UK67**
	¾"	5.00	3, 4, 4X, 7, 9	180°F	5 psi	125 psi	125 psi	125 psi	120VAC	EF8210G009	**3UK72**
	¾"	5.00		180°F	0 psi	150 psi	150 psi	Not Rated	120VAC	EF8210G095	**3UL21**
¾"	¾"	6.50		150°F	5 psi	125 psi	125 psi	125 psi	24VDC	EF8210G003	**4EKU6**
	¾"	6.50		180°F	5 psi	250 psi	150 psi	100 psi	120VAC	EF8210G003	**3UK59**
	¾"	6.00		200°F	0 psi	350 psi	300 psi	200 psi	120VAC	EF8210G026	**5JC60**
1"	1"	13.00		180°F	5 psi	150 psi	150 psi	100 psi	120VAC	EF8210G004	**3UK61**
	1"	13.00		180°F	0 psi	150 psi	125 psi	125 psi	120VAC	EF8210G054	**5JC42**
1¼"	1⅛"	15.00		180°F	5 psi	150 psi	150 psi	100 psi	120VAC	EF8210G008	**3UK69**
	1¼"	22.50		180°F	5 psi	150 psi	150 psi	100 psi	120VAC	EF8210G022	**3UK80**
1½"	1¼"	22.50		180°F	0 psi	150 psi	125 psi	125 psi	120VAC	EF8210G056	**5JC48**
	1¼"	22.50	1, 2, 3, 3S, 4, 4X, 7, 9	180°F	0 psi	150 psi	125 psi	125 psi	240VAC	EF8210G056	**6FAX6**
2"	1¾"	43.00	3, 4, 4X, 7, 9	180°F	5 psi	150 psi	125 psi	90 psi	120VAC	EF8210G100	**3UL26**
	1¾"	43.00	1, 2, 3, 3S, 4, 4X, 7, 9	150°F	5 psi	50 psi	50 psi	50 psi	24VDC	EF8210G100	**6FAY0**
2-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
¼"	5/32"	0.52	3, 3S, 4, 4X, 6, 6P, 7, 9	180°F	0 psi	210 psi	200 psi	145 psi	120VAC	EF8262H220	**6WTT4**
	7/16"	2.20		180°F	5 psi	150 psi	125 psi	Not Rated	120VAC	EF8210G037	**3UK94**
½"	5/8"	4.00	3, 4, 4X, 7, 9	150°F	0 psi	40 psi	40 psi	Not Rated	24VDC	EF8210G087	**5LU10**
	5/8"	4.00		175°F	0 psi	150 psi	150 psi	125 psi	120VAC	EF8210G087	**3UL06**
¾"	5/8"	4.50		175°F	0 psi	150 psi	150 psi	125 psi	120VAC	EF8210G088	**3UL08**
	5/8"	4.50		150°F	0 psi	40 psi	40 psi	Not Rated	24VDC	EF8210G088	**6FAX8**
1"	1"	13.00	1, 2, 3, 3S, 4, 4X, 7, 9	180°F	0 psi	150 psi	125 psi	125 psi	120VAC	EF8210G089	**6FAX9**
2-Way/2-Position, Normally Open, Brass Body - NBR Gaskets											
⅜"	5/8"	3.00		180°F	0 psi	150 psi	150 psi	125 psi	120VAC	EF8210G033	**3UK86**
½"	5/8"	4.00	3, 4, 4X, 7, 9	180°F	0 psi	150 psi	150 psi	125 psi	120VAC	EF8210G034	**3UK88**
¾"	¾"	5.50		180°F	0 psi	150 psi	150 psi	125 psi	120VAC	EF8210G035	**3UK90**
1"	1"	13.00	1, 2, 3, 3S, 4, 4X, 7, 9	180°F	5 psi	150 psi	150 psi	125 psi	120VAC	EF8210G014	**6FAX3**
2-Way/2-Position, Normally Open, Stainless Steel Body - NBR Gaskets											
½"	5/8"	3.00	3, 4, 4X, 7, 9	180°F	0 psi	150 psi	150 psi	100 psi	120VAC	EF8210G030	**4EKZ2**
	5/8"	3.00		180°F	0 psi	150 psi	150 psi	100 psi	120VAC	EF8210G038	**6FAX4**
¾"	5/8"	3.00	1, 2, 3, 3S, 4, 4X, 7, 9	150°F	0 psi	125 psi	125 psi	80 psi	24VDC	EF8210G038	**6FAX5**
	5/8"	3.00	3, 4, 4X, 7, 9	180°F	0 psi	150 psi	150 psi	100 psi	120VAC	EF8210G038	**3UK96**
3-Way/2-Position, Normally Closed, 316 Stainless Steel Body - FKM Gaskets											
¼"	5/16"	1.50	3, 3S, 4, 4X, 6, 6P, 7, 9	130°F	0 psi	130 psi	—	Not Rated	24VDC	EV8316G381	**24W660**
½"	⅝"	4.00		130°F	0 psi	130 psi	—	Not Rated	24VDC	EV8316G384	**24W663**
3-Way/2-Position, Normally Closed, 316 Stainless Steel Body - NBR Gaskets											
⅜"	5/16"	1.80	3, 3S, 4, 4X, 6, 6P, 7, 9	130°F	0 psi	130 psi	—	Not Rated	24VDC	EV8316G382	**24W642**
	5/16"	3.97		140°F	15 psi	150 psi	—	Not Rated	24VDC	EVX8316G382	**44U333**
3-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
	1/16"	0.09		200°F	0 psi	210 psi	225 psi	225 psi	120VAC	EF8320G182	**44U321**
	1/16"	0.09		150°F	0 psi	160 psi	160 psi	160 psi	24VDC	EF8320G182	**44U322**
	3/32"	0.12		150°F	0 psi	115 psi	115 psi	115 psi	24VDC	EF8320G184	**4ELC8**
¼"	3/32"	0.20		180°F	5 psi	150 psi	150 psi	95 psi	120VAC	EF8317G035	**3UL83**
	3/32"	0.12	3, 3S, 4, 4X, 6, 6P, 7, 9	200°F	0 psi	150 psi	150 psi	150 psi	120VAC	EF8320G184	**3UL96**
	5/16"	1.50		149°F	0 psi	130 psi	—	Not Rated	24VDC	EF8316H301	**6YEK3**
	5/16"	1.80		140°F	15 psi	150 psi	—	Not Rated	24VDC	EF8316G302	**44U317**
3/8"	3/8"	0.80		180°F	10 psi	200 psi	200 psi	200 psi	120VAC	EF8321G002	**3UM07**
	5/8"	2.50		180°F	10 psi	150 psi	125 psi	Not Rated	120VAC	EF8316G054	**24W650**
	5/8"	2.50		180°F	10 psi	125 psi	125 psi	Not Rated	24VDC	EF8316G054	**44U315**
3-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
	3/32"	0.12		150°F	0 psi	115 psi	115 psi	115 psi	24VDC	EF8320G202	**4ELC7**
¼"	3/32"	0.12	3, 3S, 4, 4X, 6, 6P, 7, 9	200°F	0 psi	150 psi	150 psi	150 psi	120VAC	EF8320G202	**4ELC6**
	⅛"	0.25		200°F	0 psi	85 psi	85 psi	85 psi	120VAC	EF8320G203	**44U324**
	⅛"	0.25		150°F	0 psi	60 psi	60 psi	60 psi	24VDC	EF8320G203	**44U325**
3-Way/2-Position, Universal, 316 Stainless Steel Body - NBR Gaskets											
¼"	1/16"	0.08	3, 3S, 4, 4X, 6, 6P, 7, 9	140°F	0 psi	150 psi	—	Not Rated	24VDC	EV8314G301	**24W645**
3-Way/2-Position, Universal, Brass Body - NBR Gaskets											
	1/20"	0.06		149°F	0 psi	130 psi	—	Not Rated	24VDC	EF8314H300	**6YEH6**
	1/16"	0.06		149°F	5 psi	130 psi	—	Not Rated	24VDC	EF8317H307	**6YEK4**
	1/16"	0.09		200°F	0 psi	130 psi	125 psi	130 psi	120VAC	EF8320G172	**3UL90**
	3/32"	0.12		200°F	0 psi	100 psi	100 psi	100 psi	120VAC	EF8320G174	**3UL92**
¼"	3/32"	0.12	3, 3S, 4, 4X, 6, 6P, 7, 9	200°F	0 psi	100 psi	100 psi	100 psi	120VAC	EF8320G174MS	**44U319**
	3/32"	0.12		200°F	0 psi	50 psi	50 psi	50 psi	120VAC	EF8320G176	**44U320**
	⅛"	0.25		200°F	0 psi	50 psi	50 psi	50 psi	240VAC	EF8320G176	**4ELD4**
	¼"	0.49		176°F	0 psi	150 psi	150 psi	150 psi	120VAC	EF8327G041	**44U326**
	¼"	0.49		176°F	0 psi	150 psi	150 psi	150 psi	24VDC	EF8327G041	**44U327**
3-Way/2-Position, Universal, Stainless Steel Body - NBR Gaskets											
	1/16"	0.08		140°F	0 psi	150 psi	—	Not Rated	24VDC	EF8314G301	**24W624**
¼"	3/32"	0.12	3, 3S, 4, 4X, 6, 6P, 7, 9	200°F	0 psi	100 psi	100 psi	100 psi	120VAC	EF8320G200	**4ELD9**
	⅛"	0.25		200°F	0 psi	50 psi	50 psi	50 psi	120VAC	EF8320G201	**44U323**
4-Way/2-Position, Brass Body - FKM Gaskets											
⅜"	3/16"	0.70	3, 3S, 4, 4X, 6, 6P, 7, 9	160°F	0 psi	125 psi	125 psi	125 psi	120VAC	EF8342G022	**44U328**
4-Way/2-Position, Brass Body - NBR Gaskets											
	1/16"	0.09		180°F	10 psi	150 psi	150 psi	150 psi	120VAC	EF8345G001	**3UM18**
	1/16"	0.09		180°F	10 psi	150 psi	—	Not Rated	120VAC	EF8345H003	**3UM31**
	3/32"	0.09		180°F	10 psi	150 psi	150 psi	150 psi	120VAC	EFHT8345G001	**44U332**
¼"	3/16"	0.70		160°F	0 psi	125 psi	100 psi	100 psi	120VAC	EF8342G001	**5JC54**
	3/16"	0.70	3, 3S, 4, 4X, 6, 6P, 7, 9	160°F	0 psi	125 psi	100 psi	100 psi	120VAC	EF8342G001MS	**4ELD6**
	¼"	0.80		140°F	10 psi	150 psi	—	Not Rated	24VDC	EF8344G370	**44U330**
	3/16"	0.70		160°F	0 psi	125 psi	100 psi	100 psi	120VAC	EF8342G003	**5JC58**
3/8"	3/8"	1.40		180°F	10 psi	150 psi	125 psi	125 psi	120VAC	EF8344G072	**4ELD8**
	3/8"	1.40		150°F	10 psi	125 psi	125 psi	125 psi	24VDC	EF8344G072	**44U329**
½"	3/8"	1.40		180°F	10 psi	150 psi	125 psi	125 psi	120VAC	EF8344G074	**3UM16**

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Max. Oper. Press. Differential Hot Steam	Max. Fluid Temp. Hot Water	Max. Fluid Temp. Hot Steam	Watts	Item No.
2-Way/2-Position, Normally Closed, Hot Water Steam, Brass Body										
½"	½"	4.70	3, 7, 9	5 psi	150 psi	125 psi	210°F	353°F	10.1	**6WTV8**
1"	1"	13.50	3, 7, 9	5 psi	150 psi	125 psi	210°F	353°F	10.1	**4EMC9**




No. 4KY46





ASCO™ Red-Hat®

2-Way Combustion Shut-Off Valves

- Coil insulation class: F

Typical combustible media include natural gas and oil.

Note: Units with Mfr. Models starting with JB have a junction box connection. Mfr. Models starting with SC are DIN connection.

AIR AND FUEL GAS SOLENOID

Lightweight, provide high flow, and ideal for low pressure applications.

FUEL GAS SOLENOID

For control of commercial and industrial gas burners; mount in any position.

FUEL GAS SOLENOID WITH TEST PORT

For control of commercial and industrial gas burners. ⅛" NPT downstream pipe tap with plug for testing.

FUEL OIL SOLENOID

Combustion valves are for the control of both light and heavy oils.

Pipe Size	Orifice Dia.	Cv	NEMA Rating	BtuH	Min. Oper. Press. Differential	Max. Oper. Press. Differential	Ambient Temp. Range	Max. Fluid Temp.	Voltage	Watts	Std.	Mfr. Model	Item No.
Air and Fuel Gas Solenoid Valve, Normally Closed, Aluminum Body - NBR Gaskets													
⅜"	¾"	3.4		183,000	0 psi	50 psi	32° to 125°F	125°F	120VAC	10.1	UL, FM, CSA	8215G010	**4KY40**
	¾"	4.4		238,500	0 psi	50 psi	32° to 125°F	125°F	120VAC	10.1	UL, FM, CSA	8215G020B	**4ELZ3**
	¾"	4.4		238,500	0 psi	25 psi	32° to 104°F	104°F	12VDC	11.6	UL, FM, CSA	8215G020	**4EKT6**
½"	¾"	4.4		238,500	0 psi	50 psi	32° to 125°F	125°F	120VAC	10.1	UL, FM, CSA	8215G020	**4KY41**
	¾"	4.4	1, 2, 3, 3S, 4, 4X	238,500	0 psi	50 psi	32° to 125°F	125°F	24VAC	10.1	UL Listed for Safety Shutoff, CSA Certified and Meets Applicable CE Directives	SC8215G020	**6FAZ3**
¾"	¾"	5.1		247,500	0 psi	50 psi	32° to 125°F	125°F	120VAC	10.1	UL, FM, CSA	8215G030	**4KY42**
	¾"	5.1		247,500	0 psi	25 psi	32° to 104°F	104°F	12VDC	11.6	UL, FM, CSA	8215G030	**4EKV8**
1"	1⅛"	21		1,119,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, FM	SC8215B050	**4EMC4**
	1⅛"	21	1	1,119,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215B050CSA	**4KY43**
1¼"	1⅛"	32		1,730,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215B060CSA	**4KY44**
1½"	1⅛"	35	1, 2, 3, 3S, 4, 4X	1,900,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, FM	SC8215B070	**4EMC5**
	1⅛"	35		1,900,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215B070CSA	**4KY45**
2"	2³⁄₃₂"	60	1	3,251,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215B080CSA	**4KY46**
2½"	3"	117		5,821,000	0 psi	5 psi	32° to 125°F	125°F	120VAC	28.2	UL, CSA	8215A090 CSA	**4ELZ2**
3"	3"	138		7,430,000	0 psi	5 psi	32° to 125°F	125°F	120VAC	28.2	UL, CSA	8215A040CSA	**4KY47**
Air and Fuel Gas Solenoid Valve, Normally Open, Aluminum Body - NBR Gaskets													
¾"	¾"	4.6	1, 2, 3, 3S, 4, 4X	247,500	0 psi	125 psi	32° to 125°F	125°F	120VAC	10.1	UL, CSA	8215G033	**4KY52**
1"	1⅛"	22		1,191,750	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, FM, CSA	8215C053	**4ELZ9**
	1⅛"	22		1,191,750	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215C053CSA	**4KY48**
1¼"	1⅛"	33		1,793,250	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, FM, CSA	8215C063	**4ELZ8**
	1⅛"	33	1	1,793,250	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215C063CSA	**4KY49**
1½"	1⅛"	37		1,988,250	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215C073CSA	**4KY50**
2"	2³⁄₃₂"	58		3,100,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, FM, CSA	8215C083	**4ELZ7**
	2³⁄₃₂"	58		3,100,000	0 psi	25 psi	32° to 125°F	125°F	120VAC	15.4	UL, CSA	8215C083CSA	**4KY51**
Fuel Gas Solenoid Valve, Aluminum Body - NBR Gaskets													
1"	1⅛"	21		—	0 psi	25 psi	32° to 77°F	104°F	24VDC	35.1	UL and CSA for Safety Shutoff	8215G050-24/DC	**38VC38**
	1⅛"	21		—	0 psi	25 psi	32° to 77°F	104°F	12VDC	35.1	UL and CSA for Safety Shutoff	8215G050-12/DC	**38VC39**
1¼"	1⅛"	32	1, 2, 3,	—	0 psi	25 psi	32° to 77°F	104°F	12VDC	35.1	UL and CSA for Safety Shutoff	8215G060-12/DC	**38VC40**
1½"	1⅛"	35	3S, 4, 4X	—	0 psi	25 psi	32° to 77°F	104°F	12VDC	35.1	UL and CSA for Safety Shutoff	8215G070-12/DC	**38VC41**
	1⅛"	35		—	0 psi	25 psi	32° to 77°F	104°F	24VDC	35.1	UL and CSA for Safety Shutoff	8215G070-24/DC	**38VC42**
2"	2³⁄₃₂"	60		—	0 psi	15 psi	32° to 77°F	104°F	24VDC	35.1	UL and CSA for Safety Shutoff	8215G080-24/DC	**38VC43**
Fuel Gas Solenoid Valve, Normally Closed, Brass Body - FKM Gaskets													
⅛"	7⁄64"	0.16	1, 2, 3, 3S, 4, 4X	9000	0 psi	65 psi	-22° to 140°F	180°F	24VAC	6.3	CSA, NSF Certified, UL	U8256A091V	**4ELA6**
Fuel Gas Solenoid Valve, Normally Closed, Brass Body - NBR Gaskets													
½"	7⁄16"	2.8	1, 2, 3,	151,000	0 psi	8 psi	32° to 125°F	125°F	120VAC	10.1	CSA, FM, UL	8030G069	**4EMC7**
	⅜"	3.6	3S, 4, 4X	281,000	5 psi	250 psi	-20° to 125°F	125°F	120VAC	17.1	UL, FM, CSA	8210H106B	**6WTV6**
Fuel Gas Solenoid Valve with Test Port, Normally Closed, Aluminum Body - NBR Gaskets													
⅛"	5⁄16"	1		53,700	0 psi	15 psi	-40° to 125°F	125°F	120VAC	6.1	UL, FM, CSA for Safety Shutoff	8040H006	**5LU21**
¼"	5⁄16"	1.1		59,000	0 psi	15 psi	-40° to 125°F	125°F	120VAC	6.1	UL, FM, CSA for Safety Shutoff	8040H007	**5LU22**
⅜"	5⁄16"	1.2		64,400	0 psi	15 psi	-40° to 125°F	125°F	120VAC	6.1	UL, FM, CSA for Safety Shutoff	8040H008	**3UM33**
½"	¾"	4.4	1, 2, 3,	238,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	17.1	UL, FM, CSA	8214G020	**3UM27**
	¾"	5.4	3S, 4, 4X	291,000	0 psi	2 psi	-40° to 125°F	125°F	120VAC	10.1	UL, FM, CSA for Safety Shutoff	8040G022	**5LU23**
	¾"	5.1		247,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	17.1	UL, FM, CSA	8214G030	**3UM28**
	¾"	9.5		512,000	0 psi	2 psi	-40° to 125°F	125°F	24VAC	10.1	UL, CSA for Safety Shutoff	8040G023	**4ELZ5**
¾"	¾"	9.5		512,000	0 psi	2 psi	-40° to 125°F	125°F	120VAC	10.1	UL, FM, CSA for Safety Shutoff	8040G023	**5LU24**
	1⅛"	11		593,200	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, FM, CSA for Safety Shutoff	JB8214235VICSA	**6YEK6**
	1⅛"	11		593,200	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA for Safety Shutoff	JB8214235CSA	**6YEK8**
1"	1⅛"	21		1,132,300	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, FM, CSA for Safety Shutoff	JB8214250CCSA	**6YEK7**
	1⅛"	21	1	1,132,300	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA for Safety Shutoff	JB8214250CSA	**6YEL2**
1¼"	1⅛"	32		1,725,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA for Safety Shutoff	JB8214260CSA	**6YEL1**
1½"	1⅛"	35		1,887,200	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA for Safety Shutoff	JB8214270CSA	**6YEK9**
2"	2³⁄₃₂"	55		2,940,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA for Safety Shutoff	JB8214280CSA	**6YEL0**
Fuel Gas Solenoid Valve with Test Port, Normally Open, Aluminum Body - NBR Gaskets													
½"	¾"	4.4	1, 2, 3,	206,250	0 psi	5 psi	32° to 125°F	125°F	120VAC	17.1	UL, FM, CSA	8214G023	**4EMA1**
¾"	¾"	5.1	3S, 4, 4X	247,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	17.1	UL, CSA	8214G033	**3UM29**
	1⅛"	11		659,000	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, FM, CSA	JB8214037CSA	**4EMA2**
1"	1⅛"	21		1,179,000	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA	JB8214053CSA	**3UK43**
1¼"	1⅛"	32	1	1,538,750	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA	JB8214063CSA	**3UK44**
1½"	1⅛"	35		1,615,250	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA	JB8214073CSA	**3UK45**
2"	2³⁄₃₂"	60		2,924,500	0 psi	5 psi	-40° to 125°F	125°F	120VAC	20	UL, CSA	JB8214083CSA	**3UK46**
Fuel Oil Solenoid Valve, Normally Closed, Brass Body - FKM Gaskets													
½"	¼"	1.2	1	—	0 psi	110 psi	95° to 104° F	250°F	120VAC	15.4	UL, FM, CSA	8266D069V	**4EKT3**
Fuel Oil Solenoid Valve, Normally Closed, Brass Body - Stainless Steel Gaskets													
⅜"	¼"	1.2	1	—	0 psi	110 psi	95° to 104° F	250°F	120VAC	15.4	UL, FM, CSA for Safety Shutoff	JB8266D023L	**2LBG6**
½"	5⁄16"	1.8		—	0 psi	70 psi	95° to 104° F	250°F	120VAC	15.4	UL, FM, CSA for Safety Shutoff	JB8266D077L	**2LBG7**


No. 3UL11


No. 6YEJ9


No. 6WTV7


No. 5LU46

ASCO Red-Hat
2-Way Normally Closed and Normally Open Steam and Hot Water Solenoid Valves

- Brass body
- NEMA rating: 1, 2, 3, 3S, 4, 4X

For high-temperature fluid applications involving steam or hot water. Coil included.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Max. Oper. Press. Differential Steam	Max. Fluid Temp. Hot Water	Max. Fluid Temp. Steam	Ambient Temp. Range	Voltage	Watts	Mfr. Model	Item No.
Hot Water Solenoid Valve													
Normally Closed													
3/8"	5/16"	3.00	F	0 psi	100 psi	—	210°F	Not Rated	—	120VAC	10.1	8210G093HW	**3UL11**
	5/16"	3.00	F	5 psi	125 psi	—	210°F	Not Rated	—	120VAC	6.1	8210G001HW	**3UK49**
1/2"	5/8"	4.00	F	0 psi	100 psi	—	210°F	Not Rated	—	120VAC	10.1	8210G094HW	**3UL14**
	5/8"	4.00	F	5 psi	125 psi	—	210°F	Not Rated	—	120VAC	6.1	8210G002HW	**3UK52**
3/4"	3/4"	5.00	F	0 psi	100 psi	—	210°F	Not Rated	—	120VAC	10.1	8210G095HW	**3UL20**
	3/4"	5.50	F	5 psi	150 psi	—	210°F	Not Rated	125°F	120VAC	6.1	8221G005HW	**5LU28**
Steam and Hot Water Solenoid Valve													
Normally Open													
3/4"	3/4"	5.00	H	5 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	16.1	8220G095	**4EME4**
Normally Closed													
1/4"	5/32"	0.52	H	0 psi	210 psi	110 psi	210°F	344°F	131°F	120VAC	10.1	8263H300	**6YEJ9**
	5/32"	0.52	H	0 psi	200 psi	110 psi	210°F	344°F	131°F	120VAC	10.1	8263H305	**6YEK2**
3/8"	1/2"	4.40	H	0 psi	100 psi	50 psi	210°F	300°F	125°F	24VDC	15.6	8220G402	**4NWZ3**
	1/2"	4.40	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	6.1	8220G401	**4NWZ1**
	1/2"	4.40	H	5 psi	150 psi	125 psi	210°F	353°F	140°F	120VAC	10.1	8220G403	**4NWZ2**
1/2"	1/2"	4.70	H	0 psi	150 psi	50 psi	210°F	300°F	125°F	24VDC	15.6	8220G405	**4NWZ6**
	1/2"	4.70	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	6.1	8220G404	**4NWZ4**
	1/2"	4.70	H	5 psi	150 psi	125 psi	210°F	353°F	140°F	120VAC	10.1	8220G406	**4NWZ5**
	1/2"	4.70	H	5 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	10.1	SU8220G406	**6WTV7**
3/4"	3/4"	8.80	H	0 psi	150 psi	50 psi	210°F	300°F	125°F	24VDC	15.6	8220G408	**4NWZ9**
	3/4"	8.80	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	6.1	8220G407	**4NWZ7**
	3/4"	8.80	H	5 psi	150 psi	125 psi	210°F	353°F	140°F	120VAC	10.1	8220G409	**4NWZ8**
1"	1"	11.50	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	10.1	8220G410	**4NXA1**
	1"	11.50	H	5 psi	150 psi	125 psi	210°F	353°F	140°F	120VAC	10.1	8220G411	**4NXA2**
1 1/4"	1 1/8"	15.00	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	10.1	8220G009	**5LU31**
	1 1/8"	15.00	H	5 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	10.1	8220G027	**5LU44**
1 1/2"	1 1/4"	22.50	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	10.1	8220G011	**5LU32**
	1 1/4"	22.50	H	5 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	10.1	8220G029	**5LU45**
2"	1 3/4"	43.00	F	5 psi	150 psi	50 psi	210°F	300°F	125°F	120VAC	10.1	8220G013	**5LU33**
	1 3/4"	43.00	H	5 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	10.1	8220G031	**5LU46**
Steam Solenoid Valve													
Normally Open													
3/8"	3/8"	5.10	H	0 psi	—	30 psi	—	280°F	125°F	120VAC	16.1	8267G011	**4EME7**
1/2"	3/8"	4.50	H	0 psi	—	15 psi	—	250°F	125°F	120VAC	16.1	8267G015	**4EME6**
3/4"	1/2"	9.70	H	0 psi	—	15 psi	—	250°F	125°F	120VAC	16.1	8267G023	**4EME5**
Normally Closed													
1/4"	3/8"	1.20	H	1 psi	—	125 psi	—	353°F	125°F	120VAC	6.1	8222G070	**5LU34**
3/8"	3/8"	2.50	H	1 psi	—	125 psi	—	353°F	125°F	120VAC	6.1	8222G074	**5LU36**
	5/8"	3.00	F	0 psi	150 psi	125 psi	210°F	353°F	125°F	120VAC	10.1	8222G093	**4EME8**
1/2"	3/8"	2.50	F	1 psi	—	80 psi	—	324°F	125°F	120VAC	6.1	8222G066	**5LU38**
	3/8"	2.50	H	1 psi	—	125 psi	—	353°F	125°F	120VAC	6.1	8222G076	**5LU39**
	3/8"	4.50	H	0 psi	—	15 psi	—	250°F	125°F	120VAC	16.1	8267G007	**4EMD2**
	1/2"	3.60	H	2 psi	—	125 psi	—	353°F	—	120VAC	10.1	8222G047	**3UM24**
	5/8"	4.00	F	0 psi	—	50 psi	—	300°F	125°F	120VAC	10.1	8222G094	**5LU40**
	5/8"	4.00	H	0 psi	—	125 psi	—	353°F	125°F	120VAC	17.1	8222G002	**4EMD3**
3/4"	1/2"	4.60	H	2 psi	—	125 psi	—	353°F	—	120VAC	10.1	8222G049	**3UM25**
	1/2"	4.60	H	5 psi	—	200 psi	—	388°F	125°F	120VAC	10.1	8222G005	**5LU41**
	1/2"	9.70	H	0 psi	—	15 psi	—	250°F	125°F	120VAC	16.1	8267G019	**4EMD7**
	3/4"	5.00	F	0 psi	—	50 psi	—	300°F	125°F	120VAC	10.1	8222G095	**5LU42**
	3/4"	5.00	H	0 psi	—	125 psi	—	353°F	125°F	120VAC	17.1	8222G003	**5LU43**

ASCO Red-Hat
2-Way Cryogenic Solenoid Valves

- NEMA rating: 1, 2, 3, 3S, 4, 4X

Normally closed valves are specifically designed to handle cryogenic fluids, including liquid nitrogen, liquid argon, and liquid oxygen. All are degreased, cleaned, tested free of moisture, and blacklight tested for hydrocarbons. Coil included. For use in frozen food and cranial/genetic preservation applications. CSA and CE Certified.


No. 2HTN5


No. 6YEH8


No. 2HTN1

Pipe Size	Seal Material	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
Brass Body												
1/8"	PTFE	1/8"	0.35	F	0 psi	155 psi	155 psi	155 psi	150°F	120VAC	8263H240LT	**6YEJ4**
	PTFE	1/8"	0.35	F	0 psi	155 psi	155 psi	155 psi	150°F	120VAC	8262H232LT	**6YEJ1**
1/4"	PTFE	7/32"	0.73	F	0 psi	100 psi	100 psi	100 psi	150°F	120VAC	8262H114LT	**6YEH8**
	PTFE	7/32"	0.73	H	0 psi	42 psi	42 psi	42 psi	120°F	24VDC	8262H114LT	**6YEH9**
	PTFE	9/32"	0.88	F	0 psi	40 psi	40 psi	40 psi	150°F	120VAC	8262H210LT	**6YEJ3**
	NBR	9/32"	0.88	F	0 psi	18 psi	18 psi	—	150°F	24VAC	8262H210LT	**6ZAK5**
3/8"	PTFE	7/32"	0.73	F	0 psi	90 psi	—	—	150°F	120VAC	8263H206LT	**6YEJ0**
	PTFE	9/32"	0.88	F	0 psi	40 psi	—	—	150°F	120VAC	8263H125LT	**6YEJ2**
1/2"	—	5/8"	3.80	H	0 psi	90 psi	—	—	150°F	120VAC	8222G002LT	**2HTN1**
Nickel-Plated Brass Body												
1/8"	PTFE	3/64"	0.06	F	0 psi	1000 psi	—	—	120°F	120VAC	8264G009	**2HTN5**
	PTFE	3/32"	0.20	F	0 psi	300 psi	—	—	120°F	120VAC	8264G010	**2HTN7**

ASCO Red-Hat Parker
2-Way Normally Closed Angle Body Piston Valves


No. 4ELY1


No. 426J33

- Max. fluid temp.: 366°F, except, Nos. 426J33 to 426J38 are 356°F
- PTFE seals

Auxiliary-piloted piston valves feature cold-rolled stainless steel shaft, spring-loaded stem seal, and DuPont™ Viton® shaft wiper. Require 120V, 60 Hz solenoid valve. Designed to handle water, light slurries, and steam.

Pipe Size	Orifice Dia.	Cv	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Steam	Min. Pilot Pressure	Max. Pilot Pressure	Brand	Mfr. Model	Item No.
Bronze Body									
1/2"	1/2"	5.7	240 psi	150 psi	38 psi	150 psi	Asco	8290B002	**4ELY7**
	1/2"	5.7	240 psi	150 psi	60 psi	150 psi	Asco	8290A384	**2HTR7**
3/4"	3/4"	11.0	150 psi	150 psi	60 psi	150 psi	Asco	8290A385	**2HTR6**
	3/4"	11.0	240 psi	150 psi	60 psi	150 psi	Asco	8290B005	**1WG91**
1"	1"	15.0	90 psi	90 psi	60 psi	150 psi	Asco	8290A386	**2HTT1**
	1"	19.0	150 psi	150 psi	60 psi	150 psi	Asco	8290B010	**1WG92**
1 1/4"	1 1/4"	32.0	90 psi	90 psi	60 psi	150 psi	Asco	8290A016	**4ELX9**
	1 1/4"	32.0	180 psi	150 psi	60 psi	150 psi	Asco	8290A017	**3UK37**
1 1/2"	1 1/2"	52.0	60 psi	60 psi	60 psi	150 psi	Asco	8290A020	**4ELY1**
	1 1/2"	52.0	120 psi	120 psi	60 psi	150 psi	Asco	8290A021	**3UK38**
2"	2"	68.0	40 psi	40 psi	60 psi	150 psi	Asco	8290A024	**4ELY2**
	2"	68.0	90 psi	90 psi	60 psi	150 psi	Asco	8290A025	**3UK36**
316L Stainless Steel Body									
3/8"	3/8"	2.3	240 psi	150 psi	60 psi	150 psi	Asco	8290A791	**2HTR8**
1/2"	1/2"	4.1	180 psi	150 psi	60 psi	150 psi	Asco	8290A792	**2HTR9**
	1/2"	5.7	240 psi	150 psi	38 psi	150 psi	Asco	8290B045	**4ELY8**
	1/2"	5.7	240 psi	150 psi	60 psi	150 psi	Asco	8290A393	**4ELY5**
3/4"	3/4"	7.6	90 psi	90 psi	60 psi	150 psi	Asco	8290A793	**2HTT2**
	3/4"	11.0	240 psi	150 psi	60 psi	150 psi	Asco	8290B048	**4ELY9**
1"	1"	15.0	90 psi	90 psi	60 psi	150 psi	Asco	8290A395	**4ELY6**
	1"	19.0	150 psi	150 psi	60 psi	150 psi	Asco	8290B053	**4ELZ1**
1 1/2"	1 1/2"	52.0	120 psi	120 psi	60 psi	150 psi	Asco	8290A064	**4ELY3**
2"	2"	68.0	90 psi	90 psi	60 psi	150 psi	Asco	8290A068	**4ELY4**
Stainless Steel Body									
1/2"	1/2"	5.5	—	130 psi	43.5 psi	145 psi	Parker	PA15S1N4S050A	**426J33**
	1/2"	5.5	232 psi	130 psi	65.3 psi	145 psi	Parker	PA15SAN4S050A	**426J36**
3/4"	23/32"	10.5	—	130 psi	43.5 psi	145 psi	Parker	PA20S1N5S050A	**426J34**
	23/32"	10.5	145 psi	130 psi	65.3 psi	145 psi	Parker	PA20SAN5S050A	**426J37**
1"	15/16"	18.7	—	130 psi	43.5 psi	145 psi	Parker	PA25S1N6S063A	**426J35**
	15/16"	18.7	116 psi	116 psi	65.3 psi	145 psi	Parker	PA25SAN6S063A	**426J38**

2- and 3-Way Next Generation Solenoid Valves

ASCO™ Red-Hat®

- Max. fluid temp.: 180°F
- Coil insulation class: H
- Seal material: NBR

Can accept both AC and DC voltages; increase DC pressure ratings to AC levels. Feature lower power operation, voltage ranging, and built-in surge suppression. Design helps eliminate AC hum. Coil included.


No. 6YEJ5


No. 4ELL4


No. 1ALB1

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Brass Body -NBR Gaskets											
¼"	⅛"	0.35	1, 2, 3, 3S, 4, 4X	0 psi	540 psi	395 psi	360 psi	180°F	100 to 240VAC/DC	8262R232	**6YEJ7**
	5/32"	0.52		0 psi	300 psi	225 psi	225 psi	180°F	100 to 240VAC/DC	8262R202	**6YEJ5**
	7/32"	0.73		0 psi	125 psi	125 psi	125 psi	180°F	100 to 240VAC/DC	8262R208	**6YEJ6**
⅜"	⅝"	3.00		0 psi	150 psi	150 psi	Not Rated	180°F	100 to 240VAC/DC	8210P093	**1ALA6**
½"	⅝"	4.00		0 psi	150 psi	150 psi	Not Rated	180°F	100 to 240VAC/DC	8210P094	**1ALA8**
¾"	¾"	5.00		0 psi	150 psi	150 psi	Not Rated	180°F	100 to 240VAC/DC	8210P095	**1ALB3**
1"	1"	13.00		5 psi	150 psi	150 psi	100 psi	180°F	100 to 240VAC/DC	8210P004	**1ALB7**
1¼"	1⅛"	15.00		5 psi	150 psi	150 psi	100 psi	180°F	100 to 240VAC/DC	8210P008	**4ELL4**
1½"	1¼"	22.50		5 psi	150 psi	150 psi	100 psi	180°F	100 to 240VAC/DC	8210P022	**4ELL6**
2"	1¾"	43.00		5 psi	150 psi	125 psi	90 psi	180°F	100 to 240VAC/DC	8210P100	**1ALB9**
2-Way/2-Position, Normally Closed, Stainless Steel Body -NBR Gaskets											
½"	⅝"	4.00	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180°F	100 to 240VAC/DC	8210P087	**1ALB1**
¾"	⅝"	4.50		0 psi	150 psi	150 psi	125 psi	180°F	100 to 240VAC/DC	8210P088	**1ALB5**
2-Way/2-Position, Normally Open, Brass Body -NBR Gaskets											
⅜"	⅝"	3.00	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180°F	100 to 240VAC/DC	8210P033	**4ELL8**
½"	⅝"	4.00		0 psi	150 psi	150 psi	125 psi	180°F	100 to 240VAC/DC	8210P034	**4ELN1**
¾"	¾"	5.50		0 psi	150 psi	150 psi	125 psi	180°F	100 to 240VAC/DC	8210P035	**4ELN3**
3-Way/2-Position, Normally Closed, Brass Body -NBR Gaskets											
¼"	7/64"	0.23	4X	0 psi	150 psi	150 psi	150 psi	194°F	100/240VAC	8320R184	**53AY51**
	⅛"	0.25		0 psi	90 psi	90 psi	90 psi	194°F	100/240VAC	8320R186	**53AY49**
¾"	11/16"	4.80	1, 2, 3, 3S, 4, 4X	10 psi	250 psi	250 psi	Not Rated	180°F	100 to 240VAC/DC	8316P074	**24W653**
3-Way/2-Position, Universal, Brass Body -NBR Gaskets											
¼"	1/16"	0.09	4X	0 psi	160 psi	160 psi	160 psi	194°F	100/240VAC	8320R172	**53AY50**
	7/64"	0.12		0 psi	100 psi	100 psi	100 psi	194°F	100/240VAC	8320R174	**53AY52**

3-Way Quick Exhaust Solenoid Valves

- Brass body
- Seal material: NBR

Have 3 pipe connections and 2 orifices. Coil included. UL Listed and CSA Certified.

Normally Closed—When the valve is de-energized, the pressure port is closed and the exhaust port is connected to the cylinder port. When the valve is energized, the exhaust port is closed and the pressure port is connected to the cylinder port.

Normally Open—When the valve is de-energized, the pressure port is connected to the cylinder port and the exhaust port is closed. When the valve is energized, the pressure port is closed and the cylinder port is connected to the exhaust port.

ASCO™ Red-Hat®

Universal—Can be connected in either Normally Closed or Normally Open position. Can also be used to select 1 of 2 fluids, or to divert flow from 1 port to another.


No. 3UL87


No. 3UL95


No. 3UM06

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
Normally Closed											
⅛"	1/16"	0.09	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	125 psi	125 psi	180°F	120VAC	8320G013	**3UL87**
¼"	3/32"	0.12		0 psi	150 psi	150 psi	150 psi	200°F	120VAC	8320G184	**3UL95**
	3/32"	0.20		5 psi	150 psi	150 psi	95 psi	180°F	120VAC	8317G035	**3UL82**
	3/32"	0.20		5 psi	150 psi	150 psi	Not Rated	180°F	120VAC	8317G023	**44U288**
	3/32"	0.20	3, 3S, 4, 4X, 6, 6P, 7, 9	5 psi	75 psi	30 psi	30 psi	180°F	24VDC	EF8317G035	**44U318**
⅜"	9/32"	0.80	1, 2, 3, 3S, 4, 4X	10 psi	200 psi	200 psi	200 psi	180°F	120VAC	8321G002	**3UM06**
Normally Open											
¼"	9/32"	0.80	1, 2, 3, 3S, 4, 4X	10 psi	200 psi	200 psi	200 psi	180°F	120VAC	8321G003	**3UM08**
Universal											
¼"	1/16"	0.09	1, 2, 3, 3S, 4, 4X	0 psi	125 psi	125 psi	130 psi	200°F	120VAC	8320G172	**3UL89**
	3/32"	0.12		0 psi	100 psi	100 psi	100 psi	200°F	120VAC	8320G174	**3UL91**

4-Way Solenoid Valves

ASCO™ Red-Hat®

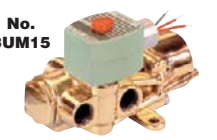
- Coil insulation class: F
- NEMA rating: 1, 2, 3, 3S, 4, 4X
- Coil enclosure voltage: 120VAC, except Nos. 44U309 and 44U312 are 24VDC

Single-solenoid valves operate double-acting cylinders. Feature 4 or 5 pipe connections: 1 pressure, 2 cylinder, and 1 or 2 exhausts. Mount in any position. Coil included.

Note: 4-way valves have differential psi for water.


No. 3UM17


No. 5JC52


No. 3UM15

Pipe Size	Orifice Dia.	Cv	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Watts	Overall Length	Mfr. Model	Item No.	
Aluminum Body -Polyethylene Gaskets												
¼"	1/16"	0.10	0 psi	150 psi	—	145 psi	130°F	17.1	1 15/16"	JSP8340G001	**44U334**	
	5/64"	0.10	0 psi	150 psi	—	Not Rated	130°F	17.1	1 15/16"	8340G001	**44U302**	
Brass Body -NBR Gaskets												
¼"	1/16"	0.09	10 psi	150 psi	150 psi	150 psi	104°F	11.6	2 1/16"	8345G001	**44U312**	
	1/16"	0.09	10 psi	150 psi	150 psi	150 psi	180°F	10.1	2 1/16"	8345G001MO	**44U313**	
	1/16"	0.09	10 psi	150 psi	150 psi	150 psi	180°F	10.1	3"	8345G001	**3UM17**	*
	1/16"	0.09	10 psi	150 psi	—	Not Rated	180°F	10.1	3"	8345H003	**3UM30**	*
	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	2 15/16"	8342G001	**5JC52**	
	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	3 1/16"	8342G001MS	**4ELD5**	
	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	16.1	2 5/8"	8342G020	**24W661**	
	1/4"	0.80	10 psi	150 psi	125 psi	125 psi	180°F	10.1	4 13/16"	8344G070	**24W664**	
	1/4"	0.80	10 psi	150 psi	150 psi	125 psi	150°F	11.6	4 3/4"	8344G070	**44U309**	
	1/4"	0.80	10 psi	150 psi	150 psi	125 psi	180°F	10.1	4 3/4"	8344G070MO	**44U310**	
3/8"	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	2 15/16"	8342G003	**5JC56**	
	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	2 5/8"	8342G003P	**24W662**	
	3/8"	0.80	10 psi	250 psi	250 psi	250 psi	180°F	17.1	4 13/16"	8344G001	**24W670**	
	3/8"	1.40	10 psi	150 psi	125 psi	125 psi	180°F	10.1	6"	8344G072	**4ELD7**	
1/2"	3/8"	1.40	10 psi	150 psi	125 psi	125 psi	180°F	10.1	3 3/16"	8344G074	**3UM15**	*
	3/8"	1.40	10 psi	150 psi	125 psi	125 psi	180°F	10.1	6 1/16"	8344G074MO	**24W659**	
	3/8"	1.40	10 psi	250 psi	200 psi	125 psi	180°F	6.1	6 1/16"	8344G082	**44U311**	
	3/8"	1.40	10 psi	250 psi	250 psi	250 psi	180°F	17.1	6 1/16"	8344G027	**44U307**	
Brass Body -PTFE Gaskets												
¼"	3/16"	0.70	0 psi	125 psi	—	Not Rated	160°F	20.1	2 1/16"	8342G501	**44U303**	
Stainless Steel Body -PTFE Gaskets												
¼"	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	2 1/16"	8342G701	**44U304**	
⅜"	3/16"	0.70	0 psi	125 psi	100 psi	100 psi	160°F	20.1	2 1/16"	8342G703	**44U305**	

**** A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. Flow controls and other components must be installed in the cylinder lines only.***


No. 53AY01


No. 53AY38

ASCO Red-Hat®

Lead-Free, 2-Way Normally Closed Solenoid Valves

- Max.fluid temp.: 180°F
- NEMA rating: 4X

These durable solenoid valves feature a brass body and a rugged design that provides long life and low internal leakage. This normally closed, 2-way valve has 1 inlet and 1 outlet pipe connection and is closed when de-energized and open when energized. Suitable for use with air, inert gas, light oil, and potable water.

Note: See Mfr. Model number for voltage that applies to each solenoid valve.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Watts	Mfr. Model	Item No.
1/8"	1/8"	0.30	F	0 psi	185 psi	180 psi	120 psi	6.1	8262H002LF 120/60, 110/50	53AY01
		0.30	F	0 psi	185 psi	180 psi	120 psi	6.1	8262H002LF 240/60, 220/50	53AY02
		0.30	H	0 psi	130 psi	110 psi	95 psi	10.6	8262H002LF 12/DC	53AY03
		0.30	H	0 psi	130 psi	110 psi	95 psi	10.6	8262H002LF 24/DC	53AY04
1/4"	3/32"	0.18	F	0 psi	370 psi	330 psi	160 psi	6.1	8262H020LF 120/60, 110/50	53AY05
		0.18	F	0 psi	370 psi	330 psi	160 psi	6.1	8262H020LF 240/60, 220/50	53AY06
		0.18	H	0 psi	235 psi	160 psi	160 psi	10.6	8262H020LF 12/DC	53AY07
		0.18	H	0 psi	235 psi	160 psi	160 psi	10.6	8262H020LF 24/DC	53AY08
	1/8"	0.30	F	0 psi	185 psi	180 psi	90 psi	6.1	8262H022LF 120/60, 110/50	53AY09
		0.30	F	0 psi	185 psi	180 psi	90 psi	6.1	8262H022LF 240/60, 220/50	53AY10
		0.30	H	0 psi	130 psi	110 psi	90 psi	10.6	8262H022LF 12/DC	53AY11
		0.30	H	0 psi	130 psi	110 psi	90 psi	10.6	8262H022LF 24/DC	53AY12
3/8"	7/32"	0.63	F	0 psi	100 psi	100 psi	100 psi	10.1	8262H208LF 120/60, 110/50	53AY13
		0.63	F	0 psi	100 psi	100 psi	100 psi	10.1	8262H208LF 240/60, 220/50	53AY14
		0.63	H	0 psi	35 psi	35 psi	35 psi	11.6	8262H208LF 12/DC	53AY15
		0.63	H	0 psi	35 psi	35 psi	35 psi	11.6	8262H208LF 24/DC	53AY16
	5/32"	0.45	F	0 psi	210 psi	185 psi	100 psi	10.1	8263H200LF 120/60, 110/50	53AY17
		0.45	F	0 psi	210 psi	185 psi	100 psi	10.1	8263H200LF 240/60, 220/50	53AY18
		0.45	H	0 psi	65 psi	63 psi	50 psi	11.6	8263H200LF 12/DC	53AY19
		0.45	H	0 psi	65 psi	63 psi	50 psi	11.6	8263H200LF 24/DC	53AY20
1/2"	5/8"	4.00	F	0 psi	40 psi	40 psi	—	11.6	8210G094LF 12/DC	53AY27
		4.00	F	0 psi	40 psi	40 psi	—	11.6	8210G094LF 24/DC	53AY28
		4.00	F	0 psi	125 psi	100 psi	100 psi	11.6	8210G002LF 12/DC	53AY23
		4.00	F	0 psi	125 psi	100 psi	100 psi	11.6	8210G002LF 24/DC	53AY24
		4.00	F	0 psi	150 psi	150 psi	—	10.1	8210G094LF 120/50, 110/60	53AY25
		4.00	F	0 psi	150 psi	150 psi	—	10.1	8210G094LF 240/60, 220/50	53AY26
		4.00	F	0 psi	200 psi	150 psi	135 psi	6.1	8210G002LF 120/60, 110/50	53AY21
		4.00	F	0 psi	200 psi	150 psi	135 psi	6.1	8210G002LF 240/60, 220/60	53AY22
3/4"	3/4"	5.00	F	0 psi	40 psi	4 psi	—	11.6	8210G095LF 12/DC	53AY35
		5.00	F	0 psi	40 psi	40 psi	40 psi	11.6	8210G095LF 24/DC	53AY36
		5.00	F	5 psi	100 psi	90 psi	75 psi	11.6	8210G009LF 12/DC	53AY31
		5.00	F	5 psi	100 psi	90 psi	75 psi	11.6	8210G009LF 24/DC	53AY32
		5.00	F	5 psi	125 psi	125 psi	125 psi	6.1	8210G009LF 120/60, 110/50	53AY29
		5.00	F	5 psi	125 psi	125 psi	125 psi	6.1	8210G009LF 240/60, 220/50	53AY30
		5.00	F	0 psi	150 psi	150 psi	—	10.1	8210G095LF 120/60, 110/50	53AY33
		5.00	F	0 psi	150 psi	150 psi	—	10.1	8210G095LF 240/60, 220/50	53AY34
1"	1"	13.00	F	5 psi	125 psi	100 psi	125 psi	11.6	8210G004LF 24/DC	53AY40
		13.00	F	5 psi	150 psi	100 psi	150 psi	6.1	8210G004LF 120/60, 110/50	53AY37
		13.00	F	5 psi	150 psi	100 psi	150 psi	6.1	8210G004LF 240/60, 220/50	53AY38
		13.00	F	5 psi	150 psi	100 psi	150 psi	11.6	8210G004LF 12/DC	53AY39

PLAST-O-MATIC VALVES, INC.

PVC and Polypropylene Solenoid Valves

- Max. fluid temp: 140°F PVC, 180°F polypropylene

Feature an innovative Fail Dry® design that provides a visual warning of seal malfunction. Bellows barrier-type dynamic seal helps prevent fugitive emissions from leaking. Rugged thermoplastic body resists corrosion and has no wetted metal parts. Valves are 2-way and 3-way with spring return. Normally closed and direct-acting with a push-pull plunger design. Can handle pressure drain or vacuum applications (3-way pressure only), without pressure to aid in opening the valve. Pilot-operated valves require a minimum differential of 5 psi. For use in severe service applications with most liquids, including acids, caustics, chlorine solutions, solvents, and ultra-pure fluids. Use with Replacement Solenoid Valve Coils Nos. 11K485 to 11K492, sold separately on Grainger.com®.


No. 39P432


No. 11K457

Pipe Size	Orifice Dia.	Cv	Min. Oper. Press. Differential	Safe Working Water Press.	Body Material - Valves PVC Item No.	Polypropylene Item No.
Direct Acting, 2-Way/2-Position, Normally Closed						
1/4"	3/16"	0.50	0 psi	140 psi	11K455	—
	1/4"	0.80	0 psi	70 psi	11K456	11K460
	3/8"	1.20	0 psi	140 psi	39P432	39P434
1/2"	3/16"	0.50	0 psi	140 psi	11K457	11K461
	1/4"	0.80	0 psi	70 psi	11K458	11K462
	3/8"	1.20	0 psi	140 psi	39P433	39P435
	3/8"	2.00	0 psi	125 psi	39P436	39P439
3/4"	15/32"	3.20	0 psi	58 psi	39P437	39P440
1"	21/32"	4.20	0 psi	15 psi	39P438	39P441
Direct Acting, 3-Way/2-Position, Universal						
1/4"	3/16"	0.52	0 psi	70 psi	39P445	—
	1/4"	0.61	0 psi	40 psi	39P446	—
1/2"	1/4"	0.61	0 psi	40 psi	39P449	—
Pilot Operated, 2-Way/2-Position, Normally Closed						
1/2"	63/64"	5.20	5 psi	140 psi	11K463	11K475
3/4"	63/64"	7.60	5 psi	140 psi	11K465	11K477
1"	63/64"	9.50	5 psi	140 psi	11K467	11K479
1 1/2"	1 15/16"	28.00	5 psi	140 psi	11K469	11K481
2"	1 15/16"	35.00	5 psi	140 psi	11K471	11K483
3"	3"	80.00	5 psi	140 psi	11K473	—
Pilot Operated, 2-Way/2-Position, Normally Closed - EPDM Gaskets						
1/2"	63/64"	5.20	5 psi	140 psi	11K464	11K476
3/4"	63/64"	7.60	5 psi	140 psi	11K466	11K478
1"	63/64"	9.50	5 psi	140 psi	11K468	11K480
1 1/2"	1 15/16"	28.00	5 psi	140 psi	11K470	11K482
2"	1 15/16"	35.00	5 psi	140 psi	11K472	11K484
3"	3"	80.00	5 psi	140 psi	11K474	—

HAYWARD

SV Series True-Union PVC and CPVC Solenoid Valves

- 120VAC
- Max. pressure: 120 psi
- Max. flow: 5 fps

Socket/threaded connection operates with no pressure differential; made for operation in harsh, corrosive conditions. Easy-to-replace seal cartridge and plunger assemblies allow quick field repair. Normally closed.


No. 3CDZ4

Pipe Size	Orifice Dia.	Cv	PVC Body Seal Material	PVC Body Max. Fluid Temp.	PVC Body Item No.	CPVC Body Seal Material	CPVC Body Max. Fluid Temp.	CPVC Body Item No.
1/2"	3/64"	2.30	—	140°F	3CDY5	EPDM	190°F	3CEP3
		2.30	EPDM		3CDZ2	FPM		3CEN6
3/4"		3.20	—		3CDY7	EPDM		3CEP5
		3.20	EPDM		3CDZ4	FPM		3CEN8
1"		3.80	—		3CDY9	EPDM		3CEP7
		3.80	EPDM		3CDZ6	FPM		3CEP1

SPENCE

Pneumatic Actuated Globe Control Valves

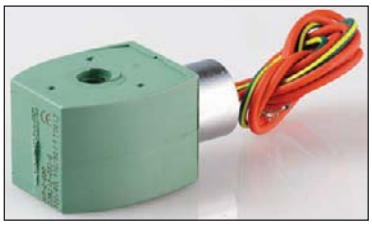
- Max. steam pressure: 250 SWP
- Temp. range: 0° to 400°F
- 2-pc.; stainless steel seats

Globe-style, severe-duty, high-capacity spring return valves work off increasing 20 psig max. control signal. Valves come with a pneumatic actuator and operate fail-close, air-to-open. Bronze construction and FNPT connection. Use for heating or cooling with air, steam, water, and other liquids. Meet ANSI B16.15 Class 250 or ANSI B16.1 Class 125.


No. 1RXC3

Pipe Size	Max. Input Air Pressure	Mfr. Model	Item No.
1/2"	400 psi	K1TC811-36RA	1RXC3
3/4"	300 psi	K1TD811-36RC	1RXC4
1"	250 psi	K1TE811-36RC	1RXC5
1 1/4"	250 psi	K1TF811-36RE	1RXC6
1 1/2"	275 psi	K1TG811-60RH	1RXC7
2"	175 psi	K1TH811-60RH	1RXC8

Description	For Use With	Item No.
NEMA 1, Class F, 120VAC	Mfr. No. 8342C001, 8342C003, JB8214050CSA, JB8214060CSA to JB8214083CSA, EF8210B27 120/60 110/50, EF8342C001, EF8342C003, 8210B057, 8210B059, JB8214035CSA, JB8214050CCSA	1AKJ5
NEMA 1, 2, 3, 3S, 4, 4X, Class H, 120VAC	Mfr. No. 8220G021, 8220G023, 8220G025, 8263G300, 8222G047, 8222G049, 8263G305, 8220G019, 8222G005, 8220G027, 8220G029, 8220G031	1AKJ6
Coil Kit, 120V/60Hz, 110V/50Hz, Nema 1, 2, 3, 3S, 4 and 4x, Class F, Encapsulated	Mfr. No. 8210G030 120/60, 110/50, 8210G033, 8210G034, 8210G035, 8210G038, 8210G093, 8210G093HW, 8210G094, 8210G094HW, 8210G095, 8210G095HW, 8220G003, 8220G005, 8262G202, 8262G208, 8262G220, 8262G226, 8262G261, 8262G262, 8262G263, 8314G6 120/60 110/50, 8317G035, 8317G053, 8320G172, 8320G184, 8320G186 120/60 110/50	1AKJ7
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 120VAC	Mfr. No. 8210G001, 8210G001HW, 8210G002, 8210G002HW, 8210G003, 8210G004, 8210G008, 8210G009, 8210G009HW, 8210G015, 8210G022, 8210G036, 8210G037, 8210G073, 8210G100, 8210G101, 8221G001 to 8262G001, 8262G002 to 8262G022, 8262G031, 8316G54 120/60 110/50, 8316G56 120/60 110/50, 8316G64 120/60 110/50, 8316G66 120/60 110/50, 8210G004LF 120/60, 110/50	1AKJ8
NEMA 7, 9, Class F, 120VAC	Mfr. No. EF8342G001, EF8342G003, EF8342G3 120/60, EF8210G27 120/60	2HTT5
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 120VAC	Mfr. No. 8210G026, 8210G054, 8210G055, 8210G056, 8210G089	2HTT6
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 24VDC	Mfr. No. 8210G087, 8210G002, 8210G088, 8210G095, 8210G009, 8210G003, 8210G004, 8210G008, 8210G022	2HTT7
NEMA 7, 9, Class F, 120VAC	Mfr. No. EF8320G192 120/60 110/50, EF8320G200 120/60 110/50	2HTT8
NEMA 7, 9, Class F, 120VAC	Mfr. No. EF8210G030, EF8210G033, EF8210G034, EF8210G035, EF8210G038, EF8210G093, EF8210G094, EF8210G095, EF8262G202, EF8262G208, EF8317G035, EF8320G172, EF8320G184, EF8320G186 120/60 110/50, EF8320G194 120/60 110/50, EF8344G70 120/60 110/50, EF8344G72 120/60 110/50, EF8344G074, EF8345G001, EF8320G202 120/60 110/50, EF8345H003, EF8215G030	2HTT9
NEMA 7, 9, Class F, 120VAC	Mfr. No. EF8210G001, EF8210G002, EF8210G003, EF8210G004, EF8210G008, EF8210G009, EF8210G015, EF8210G022, EF8210G036, EF8210G037, EF8210G073, EF8210G100, EF8210G101, EF8262G002, EF8262G022, EF8316G54 120/60 110/50, EF8316G64 120/60 110/50, EF8316G66 120/60 110/50, EF8316G74 120/60 110/50, EF8321G001, EF8321G002	2HTU1



ASCO Red-Hat® Encapsulated Coil Kits

Description	Voltage	Watts	Mfr. Model	Item No.
Din Connector Kit	—	—	276983	6FAZ6
Solenoid Valve Coil	120VAC	15.4	064982-001-D	44U337
	120VAC	10.5	064982-004-D	44U338
	120VAC	5	099216-001-D	44U339
	120VAC	15.4	099257-001-D	44U340
	120VAC	15.4	099257-001-G	44U341
	24VAC	15.4	099257-004-D	44U342
	24VAC	30.6	236783-001-D	44U343
	24VAC	6.1	238210-005-D	44U344
	240VAC	6.1/8.1	238210-058-D	44U345
	480VAC	6.1	238210-088-D	44U346
	120VAC	6.1/8.1	238212-032—	44U347
	24VAC	10.1	238610-005-D	44U348
	208 to 220/240VAC	10.1	238610-058-D	44U349
	120VAC	17.1	238610-132-D	44U350
	120VAC	10.1	238612-032—	44U351
	120VAC	17.1	238612-132—	44U352
	120VAC	6.3	266763-902-D	44U353
	24VAC	16.1	272610-005-D	44U354
	120VAC	20.1	272610-132-D	44U355

Replacement parts for Asco® solenoid valves. For a complete list of kit contents, see Grainger.com®.

Description	Mfr. Model	Item No.
Accessories		
Mounting Bracket	038713-MB	44U356
Mounting Bracket, Screw and Instructions	160800-MB	44U366
Mounting Bracket	180748-003-MB	44U373
	254573-001-MB	44U383
	268975-002-MB	44U388
Mini DIN Connector	290414-001	44U391

Valve Rebuild Kits

ASCO Red-Hat®

Replacement parts for Asco® solenoid valves. For a complete list of kit contents, see Grainger.com®.

For Use With Mfr. Model Number	For Use With Grainger Item Number	Item No.
8210B021 120/60,110/50, 8210B020 120/60,110/50 JC	3UK18, 3UK19	1AKJ9
8210G001HW 120/60,110/50, 8210G002HW 120/60,110/50, 8210G002HW 240/60,220/50	3UK49, 3UK52, 3UK55, 4EMD5	1AKU1
8210G002 24/60, 8210G002 24/60, 8210G001 120/60,110/50, 8210G002 120/60,110/50, 8210G002 240/60,220/50, 8210G002 480/60,440/50, 8210G002 240/60,220/50, 8210G001 240/60,220/50, SC8210G001120/60,110/50A, EF 8210G001 120/60,110/50, EF 8210G002 120/60,110/50, HT 8210G002 120/60,110/50, SC 8210G002 120/60,110/50, JSF 8210G002 120/60,110/50	2HTX4, 3UK48, 3UK50, 3UK51, 3UK53, 3UK54, 3UK56, 3UK57, 4EKR2, 4EKU2, 4EKU5, 4ELE8, 4ELG8, 4EKR3, 6FAY8	1AKU2
8210G003 120/60,110/50, EF 8210G003 120/60,110/50, SC 8210G003 120/60,110/50, JKF 8210G003 120/60,110/50	3UK58, 3UK59, 4ELG7, 4EKV3	1AKU3
8210G004 24/60, 8210G008 24/60, 8210G004 24/60, 8210G004 120/60,110/50, 8210G004 240/60,220/50, 8210G008 120/60,110/50, 8210G008 120/60,110/50, 8210G004 240/60,220/50, EF 8210G004 120/60,110/50, EF 8210G008 120/60,110/50, HT 8210G004 120/60,110/50, SC 8210G004 120/60,110/50, JKF 8210G004 120/60,110/50	3UK60, 3UK61, 3UK62, 3UK63, 3UK68, 3UK69, 4EKN8, 4EKP1, 4EKN7, 4EKR1, 4ELE9, 4ELG9, 4EKP7	1AKU4
8210G009HW 120/60,110/50, 8210G009HW 240/60,220/50, 8210G009HW 240/60,220/50	3UK71, 3UK74, 4EME1	1AKU5
8210G009 24/60, 8210G009 24/60, 8210G009 120/60,110/50, 8210G009 240/60,220/50, 8210G009 240/60,220/50, EF 8210G009 120/60,110/50, HT 8210G009 120/60,110/50, SC 8210G009 120/60,110/50, JKF 8210G009 120/60,110/50	3UK70, 3UK72, 3UK73, 3UK75, 4EKV6, 4EKV7, 4ELF1, 4ELH1, 4EKV4	1AKU6
8210G022 24/60, 8210G022 120/60,110/50, EF 8210G022 120/60,110/50	4EKN4, 3UK79, 3UK80	1AKU7
8210G033 120/60,110/50, 8210G034 120/60,110/50, EF 8210G033 120/60,110/50, EF 8210G034 120/60,110/50, SC 8210G034 120/60,110/50240332-001, 8210G033 120/60,110/50, 8210G034 120/60,110/50, EF 8210G033 120/60,110/50, EF 8210G034 120/60,110/50, SC 8210G034 120/60,110/50240332-001	3UK85, 3UK86, 3UK87, 3UK88, 4ELH7	1AKU8
8210G03524/60DA, 8210G035 120/60,110/50, EF 8210G035 120/60,110/50, SC 8210G035 120/60,110/50240333-001, 8210G03524/60DA, 8210G035 120/60,110/50, EF 8210G035 120/60,110/50, SC 8210G035 120/60,110/50240333-001	6DYN0, 3UK89, 3UK90, 4ELJ1	1AKU9
8221G005 120/60,110/50	3UL37	1AKV1
8221G007 120/60,110/50	3UL38	1AKV2
8221G011 120/60,110/50	3UL40	1AKV3
8221G013 120/60,110/50	3UL41	1AKV4
8215A090 CSA120/60,110/50, 8215A040 CSA 120/60,110/50	4ELZ2, 4KY47	1AKV5
8262G202, EF8262G202, 8262G208, EF8262G208, 8262G208 240/60 220/50, 8262G212, EF8262G212, 8262G202	—	1AKV6
8345G001 120/60,110/50, EF 8345G001 120/60,110/50	3UM17, 3UM18	1AKV7
8222G047 120/60,110/50, 8222G049 120/60,110/50	3UM24, 3UM25	1AKV8
8345H003 120/60,110/50, EF 8345H003 120/60,110/50	3UM30, 3UM31	1AKV9
8210G054 120/60, 8210G055 120/60, 8210G05424/60DA, HT 8210G054 120/60, SC 8210G054 120/60, EF 8210G055 120/60	5JC40, 5JC42, 5JC44, 5JC64, 4ELF2, 4ELF5, 6DYN2	1AKY1
8210G087 120/60,110/50, 8210G088 120/60,110/50, SD8210G087120/60,110/50A, EF 8210G087 120/60,110/50, EF 8210G088 120/60,110/50	3UL05, 3UL06, 3UL07, 3UL08, 6FAZ5	1AKY2
8210G093HW 120/60,110/50, 8210G094HW 120/60,110/50	3UL11, 3UL14	1AKY3
8210G094 24/60, 8210G094 24/60, SC8210G09424/60A, 8210G093 120/60,110/50, 8210G094 120/60,110/50, 8210G094 240/60,220/50, 8210G094 480/60,440/50, 8210G094 240/60,220/50, EF 8210G093 120/60,110/50, EF 8210G094 120/60,110/50, SC 8210G094 120/60,110/50, HT 8210G094 120/60,110/50, SC 8210G093 120/60,110/50, JKF 8210G094 120/60,110/50	2HTY1, 3UL10, 3UL12, 3UL13, 3UL15, 3UL16, 3UL17, 3UL18, 4EKR4, 4EKR5, 4EKT5, 4ELF3, 4ELF6, 6FAZ2	1AKY4
8210G095HW 120/60,110/50	3UL20	1AKY5
8210G095 24/60, 8210G095 24/60, 8210G095 120/60,110/50, 8210G095 240/60,220/50, 8210G095 480/60,440/50, 8210G095 240/60,220/50, EF 8210G095 120/60,110/50, JKF 8210G095 120/60,110/50, SC 8210G095 120/60,110/50240358-001	2HTX7, 3UL19, 3UL22, 3UL23, 3UL24, 4EKU9, 4EKV5, 4ELH3	1AKY6
8210G10024/60DA, 8210G100 120/60,110/50, 8210G101 120/60,110/50, EF 8210G100 120/60,110/50	6DYN9, 3UL25, 3UL26, 3UL27, 3UL28, 4KY37	1AKY7
8220G005 120/60,110/50	3UL30	1AKY8
—	3UL31	1AKY9
8220G023 24/60, 8220G023 120/60,110/50, 8220G023 240/60,220/50	4EMD8, 3UL32, 3UL33, 4EMD9	1AKZ1
8220G025 120/60,110/50, 8220G027 120/60,110/50, EF 8220G025 120/60,110/50242905-001	4EMC9, 5LU44	1AKZ2
8210G056 120/60, 8210G05624/60DA, SC8210G056120/60A, EF 8210G056 120/60, EF8210G056220/50DA, 8210B056120/60,110/50DA	5JC46, 5JC48, 6DYN3, 6DYK9, 6FAZ0, 6FAX6	1ALU4
8342G001 120/60, 8342G003 120/60, EF 8342G001 120/60, EF 8342G003 120/60	5JC52, 5JC54, 5JC56, 5JC58	1ALU6
—	3UM27, 3UM28	2HTU5
8317G035, EF8317G035	—	2HTU6
8220G003	—	2HTU7
8221G009	—	2HTU8
8221G001, 8221G003, 8221G3 24/60	—	2HTU9
8262G220, 8262G226, 8262G230	—	2HTV1
8321G001, EF8321G001, 8321G002, EF8321G002	—	2HTV2
8344G72 120/60 110/50, EF8344G72 120/60 110/50, 8344G074, EF8344G074	—	2HTV3
8215B050CSA, 8215B060CSA, 8215B070CSA	—	2HTV4
8215G010, 8215G020, 8215G030, EF8215G030	—	2HTV5
8210B057	—	2HTV6
8210G037, EF8210G037	—	2HTV7
—	3UK20, 3UK81, 5JC36, 5JC60	2HTV8
8210G015, EF8210G015, 8210G15 240/60 220/50	—	2HTV9
8210G006, EF8210G006, 8210G007, EF8210G007	—	2HTW1
8210G073, EF8210G073, 8210G73 240/60 220/50, 3UL04	—	2HTW2
8320G184, EF8320G184	—	2HTW3
—	3UL87, 3UL88	2HTW4
8320G174, EF8320G174, 8320G174 240/60 220/50, 8320G176 120/60 110/50	—	2HTW5
—	3UL89, 3UL90	2HTW6
—	3UL67	2HTW8
8263G300, 8263G305	—	2HTW9
8262G007	—	2HTX1
8262G022, EF8262G022, 8262G22 240/60 220/50, 8262G22 24/60	—	2HTX2
8262G2 120/60 110/50, EF8262G002, 8262G2 480/60 440/50, 8262G002, 8262G014	—	2HTX3
—	3UL42	2LBC8
—	3UK21, 3UK82, 5JC38, 5JC62	2LBD2
EF8210B026 AC	—	2LBD3

CONTINUED

CONTINUED

ASCO Red-Hat

Valve Rebuild Kits

For Use With Mfr. Model Number	For Use With Grainger Item Number	Item No.
—	4KY38	**2LBD5**
—	4KY39	**2LBD6**
8210D89 120/60 110/50, 8210G089, EF8210G89 120/60	—	**2LBD7**
8210G030 120/60, 110/50, EF8210G030, 8210G038, EF8210G038	—	**2LBD9**
—	2HTW8	**2LBE1**
8262G263 DC, 8262G148 DC	—	**2LBE2**
8210D014 24/DC, 8210G014 120/60, EF8210G014120/60DA, 8210G018 120/60 240349-001	4EMF1, 4EMF6, 4EKY9, 6FAX3	**2LBE3**
—	2HTX8, 2LBH4	**2LBE4**
—	2LBH5	**2LBE5**
—	5LE92	**2LBE6**
—	5LE93	**2LBE7**
8210G093, 8210G094	—	**2LBE8**
8210G001, 8210G002, EF8210G002	—	**2LBE9**
8210G095	—	**2LBF1**
8210G009	—	**2LBF2**
8210G003	—	**2LBF3**
8210G004, 8210G008	—	**2LBF4**
—	5LU17	**2LBF5**
—	5LE94	**2LBF6**
EF8210G087, 8210G088	—	**2LBF7**
8262G262, 8262G263	—	**2LBG2**
8320G184 24/DC, 8320G182 24/DC, 8320G182 12/DC, EF 8320G184 24/DC	24W628, 24W643, 4ELD1, 4ELC8	**4ELN5**
8222G070 120/60,110/50, 8222G074 120/60,110/50, 8222G066 120/60,110/50, 8222G076 120/60,110/50	5LU34, 5LU36, 5LU38, 5LU39	**4ELN6**
8040C004CSA AC	—	**4ELN8**
8040G023 24/60, 8040G022 120/60,110/50, 8040G023 120/60,110/50	4ELZ5, 5LU23, 5LU24	**4ELN9**
8210G002V 120/60,110/50	4EKR9	**4ELP1**
8210G009V 120/60,110/50	4EKV1	**4ELP3**
SC8210D03224/DCD, 8210G032 120/60 240353-001	6FAY7, 4EKY8	**4ELP5**
8210G095VH 120/60,110/50	4EKV2	**4ELR1**
8210G104120/60DA, 8210G103 120/60 240361-001	6DYP0, 4EKY7	**4ELR2**
8210G106B 120/60,110/50	4ELZ4	**4ELR3**
8215B070 CSA 12/DC, 8215B060 CSA 12/DC, 8215B050 CSA 12/DC, 8215B050 CSA 24/DC, 8215B070 CSA 24/DC	4EKN5, 4EKN9, 4EKP2, 4EKP3, 4EKR6	**4ELR4**
8215B080 CSA 24/DC	4EKN2	**4ELR5**
8215C063 120/60,110/50, 8215C053 120/60,110/50, 8215C053 CSA 120/60,110/50, 8215C063 CSA 120/60,110/50, 8215C073 CSA 120/60,110/50	4ELZ8, 4ELZ9, 4KY48, 4KY49, 4KY50	**4ELR6**
8221G003HW 120/60,110/50	4EMD4	**4ELT1**
8222G002 120/60,110/50, 8222G003 120/60,110/50	4EMD3, 5LU43	**4ELT2**
8262G011V120/60,110/50DA	6DYP7	**4ELT4**
8262G200 120/60,110/50, SC 8262G200 120/60,110/50240664-001	4EKW6, 4ELF9	**4ELU2**
8262G202T 120/60,110/50	4EKX3	**4ELU3**
EF 8215B060 120/60,110/50, EF8215B070120/60,110/50DA	4EKN6, 6FAY2	**4ELU9**
8215G033 120/60,110/50, 8215G023120/60,110/50DA, EF 8215G033 120/60,110/50	4KY52, 4EKZ4, 6DYP5	**4ELV2**
EF 8262G226V 120/60,110/50	4EKW9	**4ELV3**
8262G232Q (AC)	—	**4ELV6**
8320G200 120/60,110/50, 8320G200 120/60,110/50, EF 8320G200 120/60,110/50, EF 8320G200 120/60,110/50	3UM19, 3UM20, 4ELD9, 4ELF8	**4ELV8**
8320G186 120/60,110/50, EF 8320G186 120/60,110/50	3UL97, 3UL98	**4ELW2**
8320B001 MS AC,EF 8320G001 MS AC,GP 8320G001 MS AC,GP HB 8320G001 MS AC,HB 8320G001 MS AC,J KP 8320B001 MS AC,HB 8320B001 MS AC,J P SP 8320G001 MS AC,J SP 8320B001 MS AC,EF HB 8320G001 MS AC,OP KB 8320G001 MS AC,MP SP 8320B001 MS AC,OP SP 8320G001 MS AC,8320G001 MS AC,J KB 8320G001 MS AC,P 8320B001 MS AC,OF SP 8320G001 MS AC,P HB 8320B001 MS AC,J P SP 8320G001 MS AC	—	**4ELW5**
8342G001MS 120/60, 8342G003 MS 120/60, EF 8342G003MS 120/60, EF 8342G001MS 120/60	4ELD5, 4ELD6, 24W648, 24W657	**4ELW6**
P210C094, P210C093	4ELE2, 4ELE3	**4ELW7**
P210D009	4ELE4	**4ELW9**
—	4EKT8	**4ELX4**
8263G210 120/60, 8263G210 120/60,110/50	2HTT3, 4ELK9	**6DXZ9**
8262G090 120/60,110/50	4ELK7	**6DYA0**
8320G001 120/60,110/50, 8320G001 120/60,110/50, 8320G001 24/60 242064-100	24W632, 3UL85, 4ELD2, 3UL86	**6DYA2**
8320G192 120/60,110/50, 8320G192 120/60,110/50, EF 8320G192 120/60,110/50	24W639, 3UL99, 3UM01	**6DYA3**
8320G194 120/60,110/50, 8320G194 120/60,110/50, EF 8320G194 120/60,110/50	24W634, 3UM02, 3UM03	**6DYA4**
8320G130 12/DC	4ELD3	**6DYA5**
8320A190 12/DC	4ELC9	**6DYA6**
EF 8210B054 AC, EF 8210B055 AC	—	**6DYA7**
EF 8210B056 AC, EF FB X8210B056 04672 AC,EF HT 8210B056 AC	—	**6DYA8**
EF 8210D089 AC, EF FB X8210D089 V 04672 AC, EF HT 8210D089 AC	—	**6DYA9**
8210B059 120/60,110/50	4KY36	**6DYC0**
8210G022 24/DC, 8210G022 24/DC, SC8210G02224/DCD	2HTY3, 5LU20, 6FAY9	**6DYC1**
8210B056 24/DC	4EMF5	**6DYC2**
8211A015 DC, HC 8211A015 DC	—	**6DYC3**
8215G020 12/DC, 8215G030 12/DC, EF8215G03012/DCDD	4EKT6, 4EKV8, 6FAY4	**6DYC4**
8344G070 120/60,110/50, 8344G070 120/60,110/50, EF 8344G070 120/60,110/50	24W664, 3UM11, 24W666, 3UM12	**6DYC5**
8030G010 120/60	2HTP7	**6DYC6**
8030G013 120/60	2HTP8	**6DYC7**
8030G016 120/60	2HTP9	**6DYC8**
8030G017 120/60	2HTR1	**6DYC9**
8030G003 120/60, 8030G043 120/60	2HTR2, 2HTR3	**6DYD0**
8030G071 120/60	2HTR4	**6DYD1**
8030G083 120/60	2HTR5	**6DYD2**
8267G019 120/60	4EMD7	**6DYD3**
8267G023 120/60	4EME5	**6DYD4**
8264G009 120/60, 8264G010 120/60	2HTN5, 2HTN7	**6DYD5**
8321G003 120/60,110/50	3UM08	**6DYD6**
8222G093 120/60,110/50, 8222G094 120/60,110/50, 8222G095 120/60,110/50	4EME8, 5LU40, 5LU42	**6DYD7**
8222G005 120/60,110/50	5LU41	**6DYD8**
8222G088 120/60,110/50	4EMD6	**6DYD9**
8263G240LT 120/60	2HTN6	**6DYE0**
8263G205LT 120/60, 8263G206LT 120/60	2HTL7, 2HTL9	**6DYE1**
8263G210LT 120/60, 8263G209LT 120/60, 8263G209LT24/60DA	2HTN3, 2HTN4, 6FAX1	**6DYE2**
8222G002LT 120/60	2HTN1	**6DYE3**
8210G100 24/DC, EF8210G10024/DCDD	4EMF4, 6FAY0	**6DYE4**
8220G029 120/60,110/50	5LU45	**6DYE5**
8220G007 120/60,110/50, 8220G009 120/60,110/50	5LU29, 5LU31	**6DYE6**
8220G011 120/60,110/50	5LU32	**6DYE7**
8220G013 120/60,110/50	5LU33	**6DYE8**
EF 8342C001 AC, EF 8342C003 CSA AC, EF 8342C001 AC	—	**6DYE9**
8030G069 120/60,110/50	4EMC7	**6DYF1**
8030G079 120/60,110/50	4EMC8	**6DYF2**
8220G031 120/60,110/50	5LU46	**6DYF3**
X8262C002 120/60 13200	3UK26	**6DYF4**
8220G095 120/60	4EME4	**6DYF5**
8317G053 120/60,110/50 MATO 246095-001-F	3UL84	**6DYF6**
8314G006 AC, 8314G041 AC, EF 8314G006 AC, EF 8314G006 V AC	—	**6DYF7**
8316G064 120/60,110/50, 8316G054 120/60,110/50, 8316G074 120/60,110/50, EF 8316G054 120/60,110/50, EF 8316G064 120/60,110/50, EF 8316G074 120/60,110/50	24W630, 24W665, 34W676, 24W650, 3UL72, 3UL73, 3UL75, 3UL76, 3UL79, 3UL80	**6DYF8**
8316G066 120/60,110/50, 8316G056 120/60,110/50 , 8316G076 120/60,110/50 , EF 8316G066 120/60,110/50	3UL74, 3UL77, 3UL78, 3UL81	**6DYF9**
JB 8214 083 CSA120/60,110/50	3UK46	**6DYG0**
EF 8314G301 24/DC, EV 8314G301 24/DC, EF 8314G300 24/DC, EF 8314G301 12/DC	24W624, 24W645, 2LBJ1, 2LBJ2	**6DYG1**
EF 8317G307 24/DC	2LBJ4	**6DYG2**
EF 8317G308 24/DC	2LBJ5	**6DYG3**
EF 8316G301 24/DC	2LBJ3	**6DYG4**
8040H008 120/60,110/50, 8040H006 120/60,110/50, 8040H007 120/60,110/50	3UM33, 5LU21, 5LU22	**6DYG5**
8210P093 24-99, 8210P094 24-99, 8210P093 100-240, 8210P094 100-240	2HUA8, 2HUA9, 1ALA6, 1ALA8	**6DYG7**
8210P095 24-99, 8210P095 100-240	2HUB1, 1ALB3	**6DYG8**
8210P087 100-240, 8210P088 100-240	1ALB1, 1ALB5	**6DYG9**
8210P004 24-99, 8210P008 24-99, 8210P004 100-240, 8210P008 100-240	2HUB2, 1ALB7, 4ELL4, 4ELL5	**6DYH0**
8210P022 24-99, 8210P022 100-240	4ELL6, 4ELL7	**6DYH1**
8210P100 100-240	1ALB9	**6DYH2**
8320P184 100-240, 8320P186 100-240	2HUA1, 2HUA7	**6DYH3**
8210P033 24-99, 8210P034 24-99, 8210P033 100-240, 8210P034 100-240	4ELL8, 4ELL9, 4ELN1, 4ELN2	**6DYH4**
8210P035 24-99, 8210P035 100-240	4ELN3, 4ELN4	**6DYH5**
8345P001 100-240	2HUA3	**6DYH6**
8220G403 120/60,110/50 DA, 8220G406 120/60,110/50 DA, SU8220G406 120/60,110/50 A, EF8220G406 120/60,110/50 DA	4NWZ2, 4NWZ5, 6WTV7, 6WTV8	**6DYH7**
8220G409 24/60 DA, 8220G409 240/60,220/50 DA, 8220G409 120/60,110/50 DA	6WTV9, 6WTW0, 4NWZ8	**6DYH8**
8220G410 120/60,110/50 DA	4NXA1	**6DYH9**
8220G411 120/60,110/50 DA	4NXA2	**6DYJ0**
8220G407 120/60,110/50 DA	4NWZ7	**6DYJ1**
8220G401 120/60,110/50 DA, 8220G404 120/60,110/50 DA	4NWZ1, 4NWZ4	**6DYJ2**
8353C033, X8353C033 13470 AC, 8353C003 AC, X8353C033 21322 AC, X8353C033 15435 AC, 8353C034 AC, 8353C036 AC	5LU47, 3UK31	**6DYJ3**
8262G022LT 120/60	2HTN2	**6DYJ4**
8262G021V 120/60,110/50	2LBG4	**6DYJ5**
8210G094N 120/60,110/50	4EKT1	**6DYJ6**
8210G094V 120/60,110/50	4EKT2	**6DYJ7**
JB8266D023L 120/60,110/50	2LBG6	**6DYJ8**
JB8266D077L 120/60,110/50	2LBG7	**6DYJ9**
8262G208V 120/60,110/50	2LBG5	**6DYK0**
8221G005HW 120/60,110/50	5LU28	**6DYK1**
8221G007HW 120/60,110/50	5LU30	**6DYK2**
C131204	—	**6DYK3**
C131205	—	**6DYK4**
C131206	—	**6DYK5**
C131207	—	**6DYK6**
C131208	—	**6DYK7**
C131209	—	**6DYK8**
X8003001 05337AC	—	**44U357**
8353C004VAC	—	**44U358**
—	—	**44U359**
HV206720002AC	—	**44U360**
8210	—	**44U361**
HV212428001AC	—	**44U362**
HV216164001AC	—	**44U363**
8222 AC	—	**44U364**
8210 AC	—	**44U365**
8267	—	**44U367**
8210B035 AC/DC	—	**44U368**
8210	—	**44U369**
8030	—	**44U370**
8210	—	**44U371**
V043 002	—	**44U372**
HV162818001DC	—	**44U374**
8353C003V	—	**44U375**
V012 011	—	**44U376**
8262	—	**44U377**
8262	—	**44U378**
MXX	—	**44U379**
8353E038	—	**44U380**
SC8210G094MB 120/60,110/50	—	**44U381**
XV012 013	—	**44U382**
—	—	**44U384**
MXX	—	**44U385**
8353 057 & 8353F038	—	**44U386**
8353F038V & 8353F057V	—	**44U387**
8353A064AC	—	**44U389**
8353A057VAC	—	**44U390**
X8263G333T 05935AC	—	**44U393**
8262A152VAC	—	**44U394**
EF8320G182AC	—	**44U395**
8210D002EAC	—	**44U396**
8210D008EAC	—	**44U397**
8210G088EAC	—	**44U398**
HV283290001AC	—	**44U399**
8215B080AC	—	**44U401**
8344A074MOAC	—	**44U402**
8340G001AC	—	**44U403**
All Prefix 8353G039 AC	—	**44U404**
8321G001 DC, 8321G002 DC	—	**44U405**
8210D009QAC	—	**44U406**
8222B095MOAC	—	**44U407**
U8210C076AC	—	**44U408**
8262C226EAC	—	**44U409**
8262G220TAC	—	**44U410**
All prefix 8262G220V, 8262G226V, 8262G230V	—	**44U411**
8262D232EAC	—	**44U412**
8262D232JAC	—	**44U413**
8262 153VAC	—	**44U414**
FBX8262A227V 06866 CSA AC, FBX8262B227V 06866 CSA AC	—	**44U415**
8316G046AC	—	**44U417**
HV266139001DC	—	**44U418**
OP8210G034EAC	—	**44U419**
8353G061AC	—	**44U420**
X8353G054 18760AC	—	**44U421**
8222G405AC	—	**44U422**
8210G009AC	—	**44U423**
X8262H226AC	—	**44U424**

Cast- and Ductile-Iron Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 200 psi
- Buna liner temp. range: 10° to 180°F
- EPDM liner temp. range: -30° to 250°F
- Viton® liner temp. range: -20° to 300°F

For commercial mechanical and industrial processes, including hot and cold domestic water, HVAC, condenser and chilled water, and compressed air and vacuum services. Meet MSS-SP67, MSS-SP25, and API-609, except Low-Lead models only meet MSS SP-67, API-609.

Cast-Iron—Heavy-duty, low-torque valves are dead-end service rated at 150 psi; 200 psi for Buna and EPDM lug style.

Ductile-Iron—High tensile and yield strength with positive shutoff. Bidirectional service to 200 psi max.



No. 5MPC5

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Cast-Iron Body, Buna Liner, Nickel Plated Ductile-Iron Disc Item No.	Cast-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.	Cast-Iron Body, Viton Liner, Nickel Plated Ductile-Iron Disc Item No.	Ductile-Iron Body, Buna Liner, Nickel Plated Ductile-Iron Disc Item No.	Ductile-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.	Ductile-Iron Body, Viton Liner, 316 Stainless Steel Disc Item No.	Low-Lead Ductile-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.
Lug Style, Gear Operated Handle Type										
6"	9½"	¾-10	8	1JBJ6	1JBE6	—	—	5MPC3	5MPE3	39A304
8"	11¾"	¾-10	8	1JBJ8	1JBE8	—	5MPD5	5MPC4	5MPE4	39A305
10"	14¼"	⅞-9	12	—	—	—	—	5MPC5	—	39A306
12"	17"	⅞-9	12	—	—	—	—	—	—	39A307
Lug Style, Lever Handle Type										
2"	4¾"	⅝-11	4	1JBH1	1JBD1	1JBN1	5MPC7	5MPA7	5MPD6	39A296
2½"	5½"	⅝-11	4	1JBH3	1JBD3	—	5MPC8	5MPA8	5MPD7	39A297
3"	6"	⅝-11	4	1JBH5	1JBD5	1JBN3	5MPC9	5MPA9	5MPD8	39A298
4"	7½"	⅝-11	8	1JBH7	1JBD7	1JBN5	5MPD0	5MPC0	5MPD9	39A299
5"	8½"	¾-10	8	1JBH9	1JBD9	—	5MPD1	5MPC1	5MPE0	39A301
6"	9½"	¾-10	8	1JBJ2	1JBE2	1JBN7	5MPD2	5MPC2	5MPE1	39A302
8"	11¾"	¾-10	8	1JBJ4	1JBE4	1JBN9	5MPD3	5MPA6	5MPE2	39A303
12"	17"	⅞-9	12	—	—	—	—	5MPC6	—	—
Wafer Style, 10 Position Spring Locked Handle Type										
4"	7½"	⅝-11	2	—	—	—	5MPF9	—	—	—
5"	8½"	¾-10	2	—	—	—	5MPG0	—	—	—
Wafer Style, Gear Operated Handle Type										
4"	7½"	⅝-11	2	—	—	—	—	—	5MPG8	—
5"	8½"	¾-10	2	—	—	—	—	—	5MPG9	—
6"	9½"	¾-10	2	1JBL6	1JBG6	—	—	5MPF2	5MPH2	—
8"	11¾"	¾-10	2	—	1JBG8	—	—	5MPF3	5MPH3	—
10"	14¼"	⅞-9	4	—	—	—	—	5MPF4	—	—
12"	17"	⅞-9	4	—	—	—	—	5MPF5	—	—
Wafer Style, Lever Handle Type										
2"	4¾"	⅝-11	2	1JBK1	1JBF1	—	—	5MPE6	5MPG5	—
2½"	5½"	⅝-11	2	—	1JBF3	—	—	5MPE7	5MPG6	—
3"	6"	⅝-11	2	1JBK5	1JBF5	1JBP8	—	5MPE8	5MPG7	—
4"	7½"	⅝-11	2	1JBK7	1JBF7	—	—	5MPE9	—	—
5"	8½"	¾-10	2	—	1JBF9	—	—	5MPF0	—	—
6"	9½"	¾-10	2	1JBL2	1JBG2	1JBR3	5MPG1	5MPF1	5MPH0	—
8"	11¾"	¾-10	2	1JBL4	1JBG4	—	5MPG4	—	5MPH1	—
8"	11¾"	¾-10	2	1JBL8	—	—	—	—	—	—



Electric Actuated 115 VAC
No. 1WDX1



Pneumatic Actuated
No. 1WDX8

Cast- and Ductile-Iron Actuated Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 200 psi CWP
- Temp. range: -20° to 250°F
- EPDM seats and liner, aluminum bronze disc
- Lug style

Use for industrial and domestic applications, including hot and cold domestic water, HVAC, condenser and chilled water, compressed air, and vacuum service. Compatible with ANSI Class 125 and 150 flanges. Electrically actuated 115VAC valves have a reversing motor that requires 50/60 Hz and include a switch that indicates whether the valve is open or closed. Close mount. Can be bolted directly to a single flange piping system. Pneumatic-actuated valves require a 80 psi air supply. Double-acting valves require air to open and close; spring-return valves only require air to open.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	115 VAC Item No.	Pneumatically Actuated, Double Acting Item No.	Pneumatically Actuated, Spring Return Item No.
Cast Iron						
2"	4¾"	⅝-11	4	1WDX1	1WDX8	1WDY6
2½"	5½"	⅝-11	4	1WDX2	1WDX9	1WDY7
3"	6"	⅝-11	4	1WDX3	1WDY1	1WDY8
4"	7½"	⅝-11	8	1WDX4	1WDY2	1WDY9
5"	8½"	¾-10	8	1WDX5	1WDY3	1WDZ1
6"	9½"	¾-10	8	1WDX6	1WDY4	1WDZ2
8"	11¾"	¾-10	8	1WDX7	1WDY5	1WDZ3
Ductile Iron						
2"	4¾"	⅝-11	4	5MPP2	5MPN0	5MPN6
2½"	5½"	⅝-11	4	5MPP3	5MPN1	5MPN7
3"	6"	⅝-11	4	5MPP4	5MPN2	5MPN8
4"	7½"	⅝-11	8	5MPP5	5MPN3	5MPN9
5"	8½"	¾-10	8	5MPP6	5MPN4	5MPP0
6"	9½"	¾-10	8	5MPP7	5MPN5	5MPP1

ASAHI/AMERICA®

PVC and CPVC Butterfly Valves

Feature a spherical disc design for greater durability and improved Cv, while the full seat construction helps isolate the body and stem from the media and acts as mating flange gaskets. All gear handles come with a Plasgear™ operator designed with composite plastic and a black urethane coating for rust and corrosion resistance even when exposed to harsh chemicals.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Handle Type: Gear Item No.	Handle Type: Lever Item No.
Lug						
3"	6"	⅝-11	4	PP	442R86	442R82
4"	7½"	⅝-11	8	PP	442R87	442R83
6"	9½"	¾-10	8	PP	442R88	442R84
8"	11¼"	¾-10	8	PP	442R89	442R85
Wafer						
2"	4¼"	¼"	4	CPVC	442R95	442R90
		¼"	4	PVC	442R68	442R62
2½"	5½"	¼"	4	PVC	442R69	442R63
		¼"	4	CPVC	442R96	442R91
3"	6"	⅝-11	4	PP	442R74	442R78
		¼"	4	PVC	442R70	442R64
		¼"	8	CPVC	442R97	442R92
4"	7½"	⅝-11	8	PP	442R75	442R79
		¼"	8	PVC	442R71	442R65
		⅞"	8	CPVC	442R98	442R93
6"	9½"	¾-10	8	PP	442R76	442R80
		⅞"	8	PVC	442R72	442R66
		⅞"	8	CPVC	442R99	442R94
8"	11¼"	¾-10	8	PP	442R77	442R81
		⅞"	8	PVC	442R73	442R67

** Polypropylene = PP.*



Gear Handle
No. 442R74



Lever Handle
No. 442R78



Carbon Steel Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 285 psi
- Max. steam rating: 150 psi
- Temp. range: -20° to 400°F
- RPTFE liner material
- 316 stainless steel disc material

Use in throttling and positive shutoff applications, with hot water, cold water, and steam. A redundant seal prevents seat from being drawn into the flow stream, especially under high-velocity conditions. Bidirectional, with double dead-end service. Mount in any position. Stainless steel spring. Meet MSS SP-68, ANSI B16.34, and API 609.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Lug Item No.	Wafer Item No.
Gear Operated Handle					
2½"	5½"	⅝-11	4	4GAL7	—
5"	8½"	¾-10	8	4GAM1	—
Lever Handle					
3"	6"	⅝-11	4	4GAL8	4GAM7
4"	7½"	⅝-11	4	—	4GAM8
4"	7½"	⅝-11	8	4GAL9	—
6"	9½"	¾-10	8	4GAM2	4GAM9

PVC Butterfly Valves—Type-57P

ASAHI/AMERICA®



- Max. water pressure: 150 psi
- Temp. range: 30° to 175°F
- EPDM liner material
- Polypropylene disc material
- Wafer style

Feature a PVC body and polypropylene disc for high chemical resistance and non-wetted 316 stainless steel shaft for long life. The spherical disc design helps provide increased Cv, maximum sealing, and a high cycle life. Molded body stops and a seat stress relief area help prevent seat overtightening. Self gasketing, no additional gasket required. Meet ASTM D1784 Cell Class 12454A and NSF 61 Certified. Find Asahi® Flange Gaskets at Grainger.com®.

Pipe Size	Bolt Circle Dia.	No. of Bolt Holes	Handle Type Gear Item No.	Handle Type Lever Item No.
2"	4¾"	4	—	49FD21
2½"	5½"	4	—	49FD22
3"	6"	4	—	49FD23
4"	7½"	8	—	49FD24
6"	9½"	8	—	49FD25
8"	11¾"	8	—	49FD26
10"	14¼"	12	49FD19	—
12"	17"	12	49FD20	—

PVC Butterfly Valves—BYCS Series

HAYWARD



- Max. pressure: 150 psi
- Temp. range: 40° to 140°F
- EPDM liner material
- PVC disc material
- Wafer style

PVC construction, 1-pc. body. Fully supported flanged bolt holes help prevent stressing on mating flanges. Blowoutproof, 410 stainless steel stem and full body liner with integrally molded face seal eliminates need for additional gaskets. Lever handle with lockout.

Pipe Size	Bolt Circle Dia.	No. of Bolt Holes	Handle Type Gear Item No.	Handle Type Lever Item No.
2"	4¾"	4	26X021	26X014
2½"	5½"	4	26X022	26X015
3"	—	4	—	26X016
3"	6"	4	26X023	—
4"	7½"	8	26X024	26X017
5"	8½"	8	—	26X018
6"	9½"	8	26X026	26X019
8"	11¾"	8	26X027	26X020

PVC and CPVC Butterfly Valves—BYV Series

HAYWARD



- Max. water pressure: 150 psi
- Temp. range: 32° to 140°F (PVC Body); 32° to 190°F (CPVC Body)

Feature a 1-pc. body and 1-pc. 316 SS stem with threaded retaining gland. Optional 316 SS lugs can be molded into the body for added strength. Lever models have 19 lockable stop positions, and 360° Interlock with Cv and percentage open indicators. For a complete list of standards and specifications, go to Grainger.com® and search for individual products. For glass-filled valves go to Grainger.com® and search for glass filled polypropylene butterfly valves.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Liner Material	Handle Type Gear Item No.	Handle Type Lever Item No.
Lug							
PVC Body							
2"	4¾"	¾"	4	GP	EPDM	36FP61	36FP63
		¾"	4	GP	FPM	36FP69	36FP71
		¾"	4	GP	Nitrile	36FP65	36FP67
		¾"	4	PVC	EPDM	36FN76	36FN78
		¾"	4	PVC	FPM	36FN84	36FN86
		¾"	4	PVC	Nitrile	36FN80	36FN82
2½"	5½"	¾"	4	GP	EPDM	36FP73	36FP75
		¾"	4	GP	FPM	36FP81	36FP83
		¾"	4	GP	Nitrile	36FP77	36FP79
		¾"	4	PVC	EPDM	36FN88	36FN90
		¾"	4	PVC	FPM	36FN96	36FN98
		¾"	4	PVC	Nitrile	36FN92	36FN94
3"	6"	¾"	4	GP	EPDM	36FP85	36FP87
		¾"	4	GP	FPM	36FP93	36FP95
		¾"	4	GP	Nitrile	36FP89	36FP91
		¾"	4	PVC	EPDM	36FP01	36FP03
		¾"	4	PVC	FPM	36FP09	36FP11
		¾"	4	PVC	Nitrile	36FP05	36FP07
4"	7½"	22/31"	8	GP	EPDM	36FP97	36FP99
		22/31"	8	GP	FPM	36FR06	36FR08
		22/31"	8	GP	Nitrile	36FR02	36FR04
		22/31"	8	PVC	EPDM	36FP13	36FP15
		22/31"	8	PVC	FPM	36FP21	36FP23
		22/31"	8	PVC	Nitrile	36FP17	36FP19
CPVC Body							
2"	4¾"	¾"	4	CPVC	EPDM	36FR46	36FR48
		¾"	4	CPVC	FPM	36FR54	36FR56
		¾"	4	CPVC	Nitrile	36FR50	36FR52
2½"	5½"	¾"	4	CPVC	EPDM	36FR58	36FR60
		¾"	4	CPVC	FPM	36FR66	36FR68
		¾"	4	CPVC	Nitrile	36FR62	36FR64
3"	6"	¾"	4	CPVC	EPDM	36FR70	36FR72
		¾"	4	CPVC	FPM	36FR78	36FR80
		¾"	4	CPVC	Nitrile	36FR74	36FR76
4"	7½"	22/31"	8	CPVC	EPDM	36FR82	36FR84
		22/31"	8	CPVC	FPM	36FR90	36FR92
		22/31"	8	CPVC	Nitrile	36FR86	36FR88

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Liner Material	Handle Type Gear Item No.	Handle Type Lever Item No.
Wafer							
PVC Body							
2"	4¾"	¾"	4	GP	EPDM	36FP60	36FP62
		¾"	4	GP	FPM	36FP68	36FP70
		¾"	4	GP	Nitrile	36FP64	36FP66
		¾"	4	PVC	EPDM	36FN75	36FN77
		¾"	4	PVC	FPM	36FN83	36FN85
		¾"	4	PVC	Nitrile	36FN79	36FN81
2½"	5½"	¾"	4	GP	EPDM	36FP72	36FP74
		¾"	4	GP	FPM	36FP80	36FP82
		¾"	4	GP	Nitrile	36FP76	36FP78
		¾"	4	PVC	EPDM	36FN87	36FN89
		¾"	4	PVC	FPM	36FN95	36FN97
		¾"	4	PVC	Nitrile	36FN91	36FN93
3"	6"	¾"	4	GP	EPDM	36FP84	36FP86
		¾"	4	GP	FPM	36FP92	36FP94
		¾"	4	GP	Nitrile	36FP88	36FP90
		¾"	4	PVC	EPDM	36FN99	36FP02
		¾"	4	PVC	FPM	36FP08	36FP10
		¾"	4	PVC	Nitrile	36FP04	36FP06
4"	7½"	22/31"	8	GP	EPDM	36FP96	36FP98
		22/31"	8	GP	FPM	36FR05	36FR07
		22/31"	8	GP	Nitrile	36FR01	36FR03
		22/31"	8	PVC	EPDM	36FP12	36FP14
		22/31"	8	PVC	FPM	36FP20	36FP22
		22/31"	8	PVC	Nitrile	36FP16	36FP18
CPVC Body							
2"	4¾"	¾"	4	CPVC	EPDM	36FR45	36FR47
		¾"	4	CPVC	FPM	36FR53	36FR55
		¾"	4	CPVC	Nitrile	36FR49	36FR51
2½"	5½"	¾"	4	CPVC	EPDM	36FR57	36FR59
		¾"	4	CPVC	FPM	36FR65	36FR67
		¾"	4	CPVC	Nitrile	36FR61	36FR63
3"	6"	¾"	4	CPVC	EPDM	36FR69	36FR71
		¾"	4	CPVC	FPM	36FR77	36FR79
		¾"	4	CPVC	Nitrile	36FR73	36FR75
4"	7½"	22/31"	8	CPVC	EPDM	36FR81	36FR83
		22/31"	8	CPVC	FPM	36FR89	36FR91
		22/31"	8	CPVC	Nitrile	36FR85	36FR87

**GP = glass-filled polypropylene.*

Bronze Gate Valves

MILWAUKEE VALVE

Valves act as a positive shutoff and can be used fully open or fully closed. Bronze body, stem, and wedge. Malleable-iron wheel handle. Full port. For use in steam, water, and compressed air applications. Meet MSS SP-80.

CLASS 125
- Max. water pressure: 200 psi CWP, 125 psi SWP
- Max. temp.: 406°F

CLASS 200
- Max. water pressure: 400 psi CWP, 200 psi SWP
- Max. temp.: 550°F

CLASS 150
- Max. water pressure: 300 psi CWP, 150 psi SWP
- Max. temp.: 406°F

CLASS 300
- Max. water pressure: 1000 psi CWP, 300 psi SWP
- Max. temp.: 550°F

Nonrising Stem, FNPT
No. 5JLU3



Rising Stem, Solder
No. 5MPJ0



Pipe Size	Class 125 Inlet to Outlet Length	Class 125 Top of Handle to Inlet Center	Class 125 Item No.	Class 150 Inlet to Outlet Length	Class 150 Top of Handle to Inlet Center	Class 150 Item No.	Class 200 Inlet to Outlet Length	Class 200 Top of Handle to Inlet Center	Class 200 Item No.	Class 300 Inlet to Outlet Length	Class 300 Top of Handle to Inlet Center	Class 300 Item No.
Non-Rising Valve Stem Type, FNPT												
¼"	1¾"	3⅝"	5JLU3	1¾"	3⅝"	1WEB9	1 13/16"	4⅛"	4GCD9	1 13/16"	4⅛"	1WED1
⅜"	1 13/16"	3⅜"	5JLU4	1 13/16"	3⅜"	1WEC1	1⅞"	4⅛"	4GCE1	1⅞"	4⅛"	1WED2
½"	2"	3⅝"	5JLU5	2"	3⅝"	1WEC2	2¼"	4 5/16"	4GCE2	2¼"	4 5/16"	1WED3
¾"	2⅛"	4⅜"	5JLU6	2⅛"	4⅜"	1WEC3	2½"	4 9/16"	4GCE3	2½"	4 9/16"	1WED4
1"	2 9/16"	5"	5JLU7	2 9/16"	5"	1WEC4	3"	5 3/16"	4GCE4	3"	5 3/16"	1WED5
1¼"	2 25/32"	5 5/16"	5JLU8	2 25/32"	5 5/16"	1WEC5	3⅜"	5 15/16"	4GCE5	3⅜"	5 15/16"	1WED6
1½"	2 13/16"	6 11/32"	5JLU9	2 13/16"	6 11/32"	1WEC6	3½"	6⅜"	4GCE6	3½"	6⅜"	1WED7
2"	3 5/16"	7 1/16"	5JLV0	3 5/16"	7 1/16"	1WEC7	3¾"	7 11/16"	4GCE7	3¾"	7 11/16"	1WED8
2½"	4 3/16"	9⅛"	5JLV1	4 3/16"	9⅛"	1WEC8	—	—	—	—	—	—
3"	4⅝"	10 15/32"	5JLV2	4⅝"	10 15/32"	1WEC9	—	—	—	—	—	—
Rising Valve Stem Type, FNPT												
¼"	1¾"	3⅝"	5JLV3	4⅜"	1¾"	5JLY7	1¾"	5⅛"	4GCC8	1 13/16"	5⅛"	5JLZ7
⅜"	1 13/16"	3⅜"	5JLV4	1 13/16"	1 13/16"	5JLY8	1⅞"	5⅛"	4GCD1	1⅞"	5⅛"	5JLZ8
½"	2"	3⅝"	5JLV5	4⅜"	2"	5JLY9	2¼"	5½"	4GCC9	2¼"	5½"	5JLZ9
¾"	2⅛"	4⅜"	5JLV6	5 27/32"	2⅛"	5JLZ0	2½"	6¼"	4GCD2	2½"	6¼"	5JMA0
1"	2 9/16"	5"	5JLV7	2 9/16"	7 1/16"	5JLZ1	2⅞"	7 3/16"	4GCD3	3"	7 3/16"	5JMA1
1¼"	2 25/32"	5 5/16"	5JLV8	2 25/32"	2 25/32"	5JLZ2	3¼"	8 3/16"	4GCD4	8 3/16"	8 3/16"	5JMA2
1½"	2 13/16"	6 11/32"	5JLV9	9½"	2 13/16"	5JLZ3	3½"	9 1/16"	4GCD5	3½"	9⅝"	5JMA3
2"	3 5/16"	7 1/16"	5JLW0	3 5/16"	11½"	5JLZ4	3¾"	11¾"	4GCD6	11¾"	11¾"	5JMA4
2½"	4 3/16"	9⅛"	5JLW1	4 3/16"	14 5/16"	5JLZ5	4⅝"	14½"	4GCD7	—	—	—
3"	4⅝"	10 15/32"	5JLW2	4⅝"	16⅝"	5JLZ6	5"	16¾"	4GCD8	—	—	—

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 125 Item No.
Non-Rising Valve Stem Type, Solder			
⅜"	1⅝"	3 3/16"	1WEF1
½"	1⅞"	3 3/16"	1WEF2
¾"	2½"	4¾"	1WEF3
1"	3"	5"	1WEF4
1¼"	3¼"	5½"	1WEF5
1½"	3⅝"	6½"	1WEF6
2"	4 5/16"	7 1/16"	1WEF7
2½"	4 13/16"	9⅛"	1WEF8
3"	5 7/16"	10⅜"	1WEF9
Rising Valve Stem Type, Solder			
⅜"	1⅝"	4 5/16"	5MPJ0
½"	1⅞"	4 5/16"	5MPJ1
¾"	2½"	6¼"	5MPJ2
1"	3"	7"	5MPJ3
1¼"	3¼"	8⅝"	5MPJ4
1½"	3⅝"	9½"	5MPJ5
2"	4 5/16"	11½"	5MPJ6
2½"	4 13/16"	14 5/16"	4GCE8
3"	5 7/16"	16⅜"	4GCE9
4"	7¼"	15½"	4GCF1

Nonrising Stem, FNPT
No. 5EMU0



MILWAUKEE VALVE

Lead-Free Bronze Gate Valves

- Max. water pressure: 300 psi CWP
- Max. temp.: 180°F

Valves act as a shutoff and can be used fully open or fully closed. Bronze body, stem, and wedge. Malleable-iron wheel handle. Full port. For use in water and compressed air applications. Certified for use in potable water applications. Meet NSF/ANSI 61-8 and MSS SP-80.

Rising Stem, Solder
No. 5EMW4

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
Non-Rising Stem, FNPT			
¼"	1¾"	3⅝"	5EMU0
⅜"	1 13/16"	3⅜"	5EMU1
½"	2"	6⅝"	5EMU2
¾"	2⅛"	4⅜"	5EMU3
1"	2 9/16"	5"	5EMU4
1¼"	2 25/32"	5 5/16"	5EMU5
1½"	2 13/16"	6 11/32"	5EMU6
2"	3 5/16"	7 1/16"	5EMU7
Non-Rising Stem, Solder			
½"	1⅞"	3 3/16"	5EMU9
1"	3"	5"	5EMV1
1½"	3⅝"	6½"	5EMV3
2"	4 5/16"	7 1/16"	5EMV4
Rising Stem, FNPT			
¼"	1¾"	4⅜"	5EMV5
⅜"	1 13/16"	4⅜"	5EMV6
½"	2"	4⅜"	5EMV7
¾"	2⅛"	5 27/32"	5EMV8
1"	2 9/16"	7 1/16"	5EMV9
1¼"	2 25/32"	8 25/32"	5EMW0
1½"	2 13/16"	9½"	5EMW1
2"	3 5/16"	11½"	5EMW2
Rising Stem, Solder			
½"	1⅞"	4 5/16"	5EMW4
¾"	2½"	6¼"	5EMW5
1"	3"	7"	5EMW6
1¼"	3¼"	8⅝"	5EMW7
1½"	3⅝"	9½"	5EMW8
2"	3¾"	11½"	5EMW9

NIBCO

Bronze Flat-Top Gate Valves

- Max. water pressure: 200 psi CWP
- Max. temp.: 200°F

General-purpose valves isolate flow in irrigation piping systems. Dezincification-resistant. Nonrising stem. Bronze body and wedge, silicon bronze stem. Aluminum wheel handle. Meet ASTM B-584.

Note: Not recommended for use with hydrocarbons.

No. 6P964



No. 6P972



Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Solder Item No.
½"	1 13/16"	2½"	6P964	—
¾"	2"	2½"	6P965	—
1"	2 9/16"	3 9/16"	—	6P972
1"	2 9/16"	3 11/16"	6P966	—
1¼"	2⅝"	3 11/16"	6P967	6P973
1½"	2¾"	4 3/16"	6P968	6P974
2"	2⅞"	4½"	6P969	6P975

Lead-Free Brass Gate Valves

MILWAUKEE VALVE

- Max. water pressure: 200 psi CWP
- Max. temp.: 200°F

Feature a nonrising stem that is ideal for use in areas with limited vertical space. Brass wedge, stem, and threaded bonnet. Cast-iron wheel handle. Certified for use in potable water applications. Meet NSF/ANSI 61-8.



No. 39A259

Pipe Size	Top of Handle to Inlet Center	NPT Inlet to Outlet Length	NPT Item No.	Solder Inlet to Outlet Length	Solder Item No.
¼"	2 27/32"	1⅝"	39A259	—	—
⅜"	2 27/32"	1⅝"	39A260	1⅝"	39A267
½"	2 29/32"	1 11/16"	39A261	1 25/32"	39A268
¾"	3⅜"	1 27/32"	39A262	2⅛"	39A269
1"	3 15/16"	2⅜"	39A263	2 27/32"	39A270
1¼"	4 11/32"	2 27/64"	39A264	3"	39A271
1½"	4 15/16"	2 7/16"	39A265	3 7/32"	39A272
2"	6 1/32"	2 27/32"	39A266	3 31/32"	39A273

Brass Gate Valves

GA GRAINGER APPROVED

- Max. water pressure: 200 psi CWP, 125 psi SWP
- Max. temp.: 212°F; Nos. 6TWK1 to 6TWK3 are 176°F

Main shutoff valves must be used fully open or fully closed in water and compressed air applications. Nonrising stem can be used in limited vertical space. Brass disc, wedge, stem, and screw-in bonnet. Cast-iron wheel handle. Full port. FNPT connections. Meet NSF/ANSI 61.



No. 6TWJ6

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
¼"	1.61"	2.44	6TWJ6
⅜"	1.61"	2.50	6TWJ7
½"	1.77"	2.87	6TWJ8
¾"	1.85"	3.19"	6TWJ9
1"	2.13"	3.70"	6TWK0
1¼"	2.34"	4.33	6TWK1
1½"	2.56"	4.92	6TWK2
2"	2.76"	5¾"	6TWK3





Forged Carbon Steel Gate Valves

GRAINGER APPROVED

- Max. pressure: 1460 psi steam; 1975 psi CWP
- Max. temp.: 850°F

Class 800 valves withstand high pressures and temperatures. Carbon steel body construction with 410 stainless steel rising stem and wedge, and carbon steel handwheel. With outside screw and yoke and bolted bonnet. Meet API 602, BS 5352, ASTM A105, and NACE MR-0175.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Socket Item No.
1/4"	3 7/64"	6 1/2"	1PRG6	1PRH5
3/8"	3 7/64"	6 1/2"	1PRG7	1PRH6
1/2"	3 7/64"	6 35/64"	1PRG8	1PRH7
3/4"	3 37/64"	6 21/32"	1PRG9	1PRH8
1"	4 3/8"	7 19/32"	1PRH1	1PRH9
1 1/4"	4 23/32"	9 1/16"	1PRH2	1PRJ1
1 1/2"	4 23/32"	9 1/16"	1PRH3	1PRJ2
2"	5 33/64"	11 9/64"	1PRH4	1PRJ3







Stainless Steel Gate Valves

GRAINGER APPROVED

Ideal for refinery, chemical, and other process applications.

CLASS 150 FLANGED
- Max. pressure: 150 psi steam; 275 psi CWP
- Max. temp.: 450°F

Corrosion-resistant valves feature a flexible gate to assure proper placement; valves can absorb pipe stress without leaking. Rising stem is 316 stainless steel; handwheel is cast-iron. With bolted bonnet and outside screw and yoke. Meet API 603 and ASTMA-351.

CLASS 200
- Max. pressure: 200 psi CWP
- Max. temp.: 365°F

Corrosion-resistant construction with 316 stainless steel nonrising stem, bonnet, body, and wedge. Aluminum handwheels.

CLASS 800
- Max. pressure: 1225 psi steam; 1600 psi CWP
- Max. temp.: 850°F

Forged 316L stainless steel bonnet and body provide excellent corrosion resistance and withstand high pressures and temperatures. Rising stem and wedge are 316 stainless steel; carbon steel handwheel. Feature outside screw and yoke and bolted bonnet. Meet API 602 and ASTM A182.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 150 Flange Item No.
1"	5"	9"	1PRG1
1 1/2"	6 1/2"	11"	1PRG2
2"	7"	12 19/32"	1PRG3
3"	8"	16 13/32"	1PRG4
4"	9"	20"	1PRG5

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 200 FNPT Item No.	Class 200 Socket Item No.
1/2"	2.17"	3.94	4VMV9	—
3/4"	2.36"	4.21	4VMW1	—
1"	2.56"	4.33	4VMW2	—
1 1/4"	2.95"	5.12	4VMW3	—
1 1/2"	3.35"	5.79	4VMW4	—
2"	3.74"	6.69	4VMW5	4VMX2

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 800 FNPT Item No.	Class 800 Socket Item No.
1/2"	3 5/32"	5 1/8"	1PRJ4	1PRK1
3/4"	3 35/64"	5 25/64"	1PRJ5	1PRK2
1"	4 21/64"	6 3/8"	1PRJ6	1PRK3
1 1/4"	5"	7 1/32"	1PRJ7	1PRK4
1 1/2"	5"	8 3/8"	1PRJ8	1PRK5
2"	5 1/8"	9 1/16"	1PRJ9	1PRK6







Aluminum and Cast- and Ductile-Iron Flanged Gate Valves

MILWAUKEE VALVE · NIBCO · WATTS REGULATOR

MILWAUKEE, NO. 4HCK7
- Double disc
- Bronze stem and wedge; aluminum handwheel

Meets TTMA and conforms to MIL-V-58039 Type 1.

MILWAUKEE, CLASS 125
- Cast-iron bonnet, wedge, and handwheel

Meet MSS SP-70.

NIBCO, CLASS 125
- Ductile-iron bonnet, wedge, and handwheel

Low-lead and certified for use in potable water applications. Meet AWWA C509.

WATTS, CLASS 200
- Cast-iron bonnet, wedge, and handwheel

Suitable for throttling. Meet ASTM A126 Class B Iron, AWWA 509, FM, and MSS-SP-70. UL and C-UL Listed.

WATTS, CLASS 250
- Cast-iron bonnet, wedge, and handwheel

Epoxy-coated valve is used in fire protection applications. Suitable for throttling. Meet ASTM A126 Class B Iron, AWWA 509, FM, and MSS-SP-70. UL and C-UL Listed.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Aluminum, Rising Stem Item No.
Milwaukee Valve					
4"	5 3/8"	14 1/2"	125 psi	180°F	4HCK7

Pipe Size	Inlet to Outlet Length	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 125, Cast Iron, Rising, Brass Stem Top of Handle to Inlet Center	Class 125, Cast Iron, Rising, Brass Stem Item No.	Class 125, Cast Iron, Non-Rising, Brass Stem Top of Handle to Inlet Center	Class 125, Cast Iron, Non-Rising, Brass Stem Item No.	Class 125, Cast Iron, Non-Rising, Stainless Steel Stem Top of Handle to Inlet Center	Class 125, Cast Iron, Non-Rising, Stainless Steel Stem Item No.
Milwaukee Valve									
2"	7"	200 psi	353°F	14 45/64"	1JFL8	12"	5JMC2	12 1/4"	5MPH4
2 1/2"	7 1/2"	200 psi	353°F	16 1/2"	1JFL9	13 1/4"	5JMC3	13 1/4"	5MPH5
3"	8"	200 psi	353°F	18 19/32"	1JGL1	15"	5JMC4	15"	5MPH6
4"	9"	200 psi	353°F	23 45/64"	1JGL2	17 3/4"	5JMC5	17 3/4"	5MPH7
5"	10"	200 psi	353°F	28 1/64"	1JGL3	20 1/8"	5JMC6	20 1/8"	5MPH8
6"	10 1/2"	200 psi	353°F	32 13/32"	1JGL4	23 1/8"	5JMC7	23 1/8"	5MPH9
8"	11 1/2"	200 psi	353°F	39 29/32"	1JGL5	27 3/4"	5JMC8	—	—

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 125, Ductile-Iron, Non-Rising Stem Item No.
NIBCO					
2"	7"	10"	300 psi	160°F	1WPD4
2 1/2"	7 1/2"	11 39/64"	300 psi	160°F	1WPD5
3"	8"	12 19/32"	300 psi	160°F	1WPD6
4"	9"	13 1/2"	300 psi	160°F	1WPD7
6"	10 1/2"	17 13/32"	300 psi	160°F	1WPD8
8"	11 1/2"	20 51/64"	300 psi	160°F	1WPD9

Pipe Size	Inlet to Outlet Length	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 200, Cast-Iron, Non-Rising Stem Top of Handle to Inlet Center	Class 200, Cast-Iron, Non-Rising Stem Item No.	Class 250, Cast-Iron Top of Handle to Inlet Center	Class 250, Cast-Iron Item No.
Watts							
2 1/2"	7 1/2"	200 psi	140°F	9 1/16"	1RCY4	—	—
3"	8"	200 psi	140°F	10 1/4"	1RCY6	—	—
4"	9"	200 psi	140°F	12 1/2"	1RCY8	—	—
2 1/2"	7 1/2"	250 psi	140°F	—	—	16 3/8"	1RCZ1
3"	8"	250 psi	140°F	—	—	18 1/2"	1RCZ3
4"	9"	250 psi	140°F	—	—	22 3/4"	1RCZ4

Bronze Globe Valves

▪ Rising stems ▪ Malleable iron handwheels

MILWAUKEE VALVE

For use in HVAC and other general commercial and industrial utility applications with hot and cold water, steam, compressed air, and gas. Class 125 WOG has threaded bonnet, Classes 150 SWP and 300 WOG have union bonnet. All valves meet MSS SP-80. Body, screw-in and union bonnet, seat disc, disc holder, packing gland, and nut meet ASTM B-62.

Pipe Size	Class 125, FNPT, Max. Water Press.: 200 psi, Max. Fluid Temp.: 406°F Inlet to Outlet Length	Item No.	Class 125, Socket, Max. Water Press.: 200 psi, Max. Fluid Temp.: 406°F Inlet to Outlet Length	Item No.	Class 150, FNPT, Max. Water Press.: 300 psi, Max. Fluid Temp.: 406°F Inlet to Outlet Length	Item No.	Class 200, FNPT, Max. Water Press.: 400 psi, Max. Fluid Temp.: 550°F Inlet to Outlet Length	Item No.	Class 300, FNPT, Max. Water Press.: 600 psi, Max. Fluid Temp.: 550°F Inlet to Outlet Length	Item No.
⅛"	1⅜"	1JLB5	—	—	2 1/16"	1JLC7	2 1/16"	4GCF4	—	—
¼"	1⅜"	1JLB6	—	—	2 1/16"	1JLC8	2 1/16"	4GCF5	2 1/16"	1JLD9
⅜"	1 13/16"	1JLB7	1 13/16"	5MPJ7	2 1/16"	1JLC9	2 1/16"	4GCF6	2 1/16"	1JLE1
½"	2 5/16"	1JLB8	2 5/16"	5MPJ8	2 7/16"	1JLD1	2 7/16"	4GCF7	2 7/16"	1JLE2
¾"	2 9/16"	1JLB9	2 35/64"	5MPJ9	2 15/16"	1JLD2	2 15/16"	4GCF8	2 15/16"	1JLE3
1"	2 15/16"	1JLC1	2 15/16"	5MPK0	3 1/16"	1JLD3	3 1/16"	4GCF9	3 1/16"	1JLE4
1¼"	3⅜"	1JLC2	3⅜"	5MPK1	3⅞"	1JLD4	3⅞"	4GCG1	3⅞"	1JLE5
1½"	3 11/16"	1JLC3	3 11/16"	4GCF2	4½"	1JLD5	4½"	4GCG2	4½"	1JLE6
2"	4 7/16"	1JLC4	4 7/16"	4GCF3	5¾"	1JLD6	5¾"	4GCG3	5¾"	1JLE7
2½"	5¾"	1JLC5	—	—	6-/34"	1JLD7	—	—	—	—
3"	6⅞"	1JLC6	—	—	8"	1JLD8	8"	4GCG4	—	—



No. 1JLD9

Forged Steel Globe Valves

GA GRAINGER APPROVED

▪ Max pressure: 720 psi SWP, 1975 psi CWP
▪ Max. temp.: 1000°F

Include bolted bonnets and GraFoil® gaskets/packing. Nonrising stem. Class 800. Meet ASTM A105, BS 5352, and NACE MR-0175.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Socket Weld Item No.
¼"	3 7/64"	6 17/32"	1PRK7	1PRL6
⅜"	3 7/64"	6 17/32"	1PRK8	1PRL7
½"	3 7/64"	6 17/32"	1PRK9	1PRL8
¾"	3⅝"	6 51/64"	1PRL1	1PRL9
1"	3 15/16"	8 7/64"	1PRL2	1PRN1
1¼"	4 23/32"	10 5/16"	1PRL3	1PRN2
1½"	5 63/64"	10 5/16"	1PRL4	1PRN3
2"	6 49/64"	11 13/16"	1PRL5	1PRN4



FNPT No. 1PRK7

PVC and ABS Gate and Check Valves

Quick-opening valves provide unrestricted flow for low-pressure tank and drain applications with liquids, gases, dry/bulk solids, and slurry. Quick shutoff in low-pressure or vacuum lines. Can disassemble for in-line servicing. Meet MSS SP-70.

GATE VALVES

▪ Max. temp.: 167°F; Nos. 4HGE8 and 4HGE9 are 205°F

Pipe Size	Connec. Type	Body Material	Wedge Material	Max. Water Pressure - CWP	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
Gate Valves							
1½"	FIPT x MIPT	PVC	Polypropylene	45 psi	3⅜"	5⅛"	4HGF3
	Slip	ABS	Polypropylene	45 psi	2⅞"	5⅛"	4HGE8
2"	FIPT	PVC	304 Stainless Steel	40 psi	3½"	5½"	4HGD7
	FIPT x MIPT	PVC	304 Stainless Steel	40 psi	3½"	5½"	4HGD8
	Slip	ABS	Polypropylene	40 psi	3⅛"	5½"	4HGE9
	Slip	PVC	Polypropylene	40 psi	3½"	5½"	4HGF4
	Spigot	PVC	Polypropylene	40 psi	3½"	5½"	4HGF6
3"	FIPT	PVC	304 Stainless Steel	30 psi	4½"	7 5/32"	4HGE2
	FIPT x MIPT	PVC	304 Stainless Steel	30 psi	4½"	7 5/32"	4HGE3
	Slip	PVC	304 Stainless Steel	30 psi	4½"	7 5/32"	4HGD9
4"	Slip	PVC	304 Stainless Steel	20 psi	5 3/16"	9 15/16"	4HGE5
6"	Slip	PVC	304 Stainless Steel	10 psi	11⅛"	16 27/32"	4HGE6
8"	Slip	PVC	304 Stainless Steel	10 psi	13¾"	16 27/32"	4HGE7
10"	Slip	PVC	304 Stainless Steel	10 psi	13⅛"	23¾"	4HGF9
12"	Slip	PVC	304 Stainless Steel	10 psi	15⅛"	23¾"	4HGG1

** Clear color.*

CHECK VALVES

VALTERRA®

▪ Max. water pressure: 150 psi, except No. 35ZY65 is 75 psi
▪ Max. temp.: 73°F

Provide quiet operation and combine the benefits of a spring and a swing check valve. The full-flow design eliminates the restriction of a spring center poppet and allows up to 15% more flow than comparable spring check valves. PVC construction with 316 SS spring. White color, except where indicated in the table.

Size	Connec. Type	Mounting Position	L	W	Overall Height	Item No.
Check Valves						
½"	FPT x FPT	Any	2 7/64"	2 7/64"	3 13/16"	35ZY67 *
	Slip x Slip	Any	2⅛"	2⅛"	3 51/64"	35ZY58
¾"	FPT x FPT	Any	2 5/16"	2 5/16"	4"	35ZY61
	FPT x FPT	Any	2 5/16"	2 5/16"	4"	35ZY69 *
	Slip x Slip	Any	2 5/16"	2 5/16"	4"	35ZY60
	Slip x Slip	Any	2 5/16"	2 5/16"	4"	35ZY68 *
1"	Slip x Slip	Any	2 13/16"	2 13/16"	5"	35ZY62
	Slip x Slip	Any	2 13/16"	2 13/16"	4 29/32"	35ZY70 *
1½"	Slip x Slip	Horizontal	3-13/34"	3-13/34"	6 7/64"	35ZY63
	Slip x Slip	Horizontal	3 13/32"	3 13/32"	6 7/64"	35ZY71 *
2"	Slip x Slip	Horizontal	4½"	4½"	7 7/64"	35ZY64
	Slip x Slip	Horizontal	4½"	4½"	7 7/64"	35ZY72
	Union x Union	Any	4½"	4½"	10½"	35ZY74 *
	Union x Union	Any	6¼"	3½"	3½"	35ZY73 *
3"	Slip x Slip	Any	5 39/64"	5 39/64"	9 13/32"	35ZY65



Gate Valve No. 4HGE6



Check Valve No. 35ZY67

Bronze Angle Globe Valves

MILWAUKEE VALVE
NIBCO

Suitable for throttling service and feature adjustable packing nuts for extended service life, full NPT thread depths, union bonnet, and malleable iron handwheels. Dezincification resistant. Meet MSS SP-80.

CLASS 125
▪ Max. pressure: 125 psi SWP, except No. 1JLE8 is 300 psi SWP
▪ Max. temp.: 353°F

CLASS 300
▪ Max. pressure: 300 psi SWP
▪ Max. temp.: 550°F

Pipe Size	MILWAUKEE Class 125, FNPT Item No.	NIBCO Class 125, Solder Item No.	MILWAUKEE Class 300, FNPT Item No.
¼"	1JLE8	—	5JLX9
⅜"	1JLE9	1WPU5	5JLY0
½"	1JLF1	1WPU6	5JLY1
¾"	1JLF2	1WPU7	5JLY2
1"	1JLF3	1WPU8	5JLY3
1¼"	1JLF4	—	5JLY4
1½"	1JLF5	1WPV1	5JLY5
2"	1JLF6	—	5JLY6



Class 125, FNPT No. 1JLE8

Bronze Y-Pattern Blowoff Valves

UNITED

▪ Max. pressure: 200 psi SWP
▪ Max. temp.: 406°F

For use with gas, oil, steam, and water. Rising naval brass stem, ductile iron handwheel, swivel disc holder with PTFE disc, and union bonnet. FNPT connection. Meet MSS SP-80.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
1"	4¾"	5¾"	45A298
1¼"	5 5/16"	7"	45A299
1½"	6¼"	7¾"	45A301
2"	7¾"	8¾"	45A302



No. 45A298

Bronze Pressure Regulators

Cash Valve

▪ Series B direct-acting regulators, except No. D6714 is Series A self-actuating, No. 31LH28 is Series EB45

Single-seated, diaphragm-type valves reduce high initial inlet pressures; maintain pressure within reasonably close limits. FNPT connections, except No. 31LH28 has MNPT.

Inlet Size	L	H	▶CHOOSE: Pressure Adjustment Range (psi)	Max. Press.: 250 psi Max. Temp.: 400°F Item No.	Max. Press.: 400 psi Max. Temp.: 180°F Item No.
¼"	3"	4⅝"	20 to 100, 20 to 60, 2 to 25, 50 to 150	D6718	D6727
⅜"	3⅛"	6¼"	20 to 70, 2 to 30, 40 to 110, 90 to 150	D6719	D6728
½"	2⅞"	6⅛"	75 to 125, 0 to 5, 100 to 250, 2 to 25, 20 to 60, 40 to 80, 75 to 200	—	D6714
	4½"	6⅝"	10 to 50, 2 to 30, 30 to 125, 50 to 150	D6721	D6729
¾"	3 13/32"	5⅛"	10 to 70	—	31LH28
	5⅛"	6¾"	10 to 35, 105 to 150, 2 to 20, 30 to 75, 50 to 110	D6722	D6731
1"	2⅛"	7⅜"	10 to 45, 20 to 60, 2 to 20, 55 to 100, 90 to 150	D6723	D6732
1¼"	6¾"	8¾"	10 to 30, 20 to 50, 2 to 15, 45 to 100, 90 to 150	D6724	D6733
1½"	6¾"	8¾"	10 to 30, 20 to 50, 2 to 15, 45 to 100, 90 to 150	D6725	D6734
2"	9¼"	12"	10 to 60, 20 to 100, 2 to 20, 90 to 150	D6726	D6735



No. D6723



No. 5DMC8



No. 5DMD6

Water and No. 2 Oil Pressure Regulators

WATTS REGULATOR

- Max. pressure: 300 psi
- Max. temp.: 140°F

For use in water and No. 2 fuel oil pressure regulation in small, general-purpose piping system applications. FNPT connections. Lead-Free regulators are certified for use in potable water applications.

SERIES LF26A, LEAD FREE BRASS BODY

2-way valves have brass construction and an oversized orifice.

SERIES LF263A, LEAD FREE BRASS BODY AND SERIES 263A, STAINLESS STEEL BODY

3-way valves feature an aluminum spring cage, Buna N stainless steel disc, reinforced Buna N diaphragm, tee handle adjustment, and ¼" low-pressure gauge port.

SERIES SS-263AP, STAINLESS STEEL BODY

Stainless steel body, spring cage, and adjusting screw. Oversized orifice.

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Item No.
Series LF26A, Lead Free Brass Body					
¼"	¼"	2⅛"	4⅜"	1 to 25 psi	**5DMC7**
				3 to 50 psi	**5DMC8**
				10 to 125 psi	**40F291**
⅜"	⅜"			1 to 25 psi	**26X102**
				3 to 50 psi	**5DMC9**
				10 to 125 psi	**40F292**
				50 to 175 psi	**40F293**
½"	½"			1 to 25 psi	**5DMD1**
				3 to 50 psi	**5DMD2**
				10 to 125 psi	**40F294**
Series LF263A, Lead Free Brass Body					
¼"	¼"	2⅛"	4⅜"	3 to 50 psi	**5DMD4**
				10 to 125 psi	**26X103**
⅜"	⅜"			1 to 25 psi	**5DMD5**
				3 to 50 psi	**5DMD3**
				10 to 125 psi	**26X104**
½"	½"			1 to 25 psi	**5DMD7**
				3 to 50 psi	**5DMD6**
				10 to 125 psi	**26X105**

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Item No.
Rebuild Kits					
½"	½"	2⅛"	4⅜"	20 to 175 psi	**40F295**
Series LF263A, Lead Free Brass Body					
½"	½"	2⅛"	4⅜"	50 to 175 psi	**26X106**
Series 263A, Stainless Steel Body					
¼"	¼"	2⅛"	4⅜"	1 to 25 psi	**3AYZ3**
				3 to 50 psi	**3AYZ4**
				10 to 125 psi	**3AYZ5**
				100 to 300 psi	**3AYZ7**
⅜"	⅜"			1 to 25 psi	**3AYZ8**
				3 to 50 psi	**3AYZ9**
				10 to 125 psi	**3AZA1**
				20 to 175 psi	**3AZA2**
				100 to 300 psi	**3AZA3**
½"	½"			1 to 25 psi	**3AYY6**
				20 to 175 psi	**3AYY7**
				100 to 300 psi	**3AYY8**
Series SS-263AP, Stainless Steel Body					
½"	½"	2⅛"	4¾"	3 to 50 psi	**1KCL9**
				10 to 125 psi	**1KDL1**

GA GRAINGER APPROVED

WATTS REGULATOR



No. 30PT96



No. 1DMK5

Water Pressure Regulators

FNPT connections, except No. 26X143 is FGHT x MGHT.

BRASS

- Max. pressure: 300 psi
- Max. temp.: 140°F

Ideal for use in non-potable water and No. 2 fuel oil pressure regulation in small, general-purpose piping system applications. NBR, EPDM seals and a T-handle adjustment. Series 26A two-way brass valves feature an oversized orifice. Series 263A three-way brass valves have a Buna N disc, Buna N reinforced diaphragm, an aluminum spring cage, and ¼" low-pressure gauge port.

BRONZE

- Max. pressure: 100 psi
- Max. temp.: 212°F

Designed to fill boiler and system piping with water and to maintain water pressure in the system. An innovative push-button fast fill engagement with auto-stop helps prevents over-pressurizing the system. Dial indicator eliminates need for pressure gauge.

LEAD-FREE BRASS

- Max. pressure: 300 psi
- Max. temp.: 140°F

Certified for use in potable water applications.

THERMOPLASTIC

- Max. pressure: 300 psi
- Max. temp.: 150°F

Use in OEM irrigation and industrial applications that require a constant downstream flow. Corrosion-resistant, molded plastic body with 300 Series stainless steel and food-grade rubber internal components.

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Brand	Mfr. Model	Item No.	
Brass Body								
Series 2-Way Brass								
¼"	¼"	2⅛"	4⅜"	1 to 25 psi	GA	30PT96	**30PT96**	
				3 to 50 psi	GA	30PT97	**30PT97**	
⅜"	⅜"			1 to 25 psi	GA	30PT98	**30PT98**	
				3 to 50 psi	GA	30PT99	**30PT99**	
½"	½"			1 to 25 psi	GA	30PV01	**30PV01**	
				3 to 50 psi	GA	30PV02	**30PV02**	
Series 3-Way Brass								
¼"	¼"	2⅛"	4⅜"	1 to 25 psi	GA	30PV03	**30PV03**	
				3 to 50 psi	GA	30PV04	**30PV04**	
⅜"	⅜"			3 to 50 psi	GA	30PV07	**30PV07**	
				1 to 25 psi	GA	30PV10	**30PV10**	
½"	½"			3 to 50 psi	GA	30PV11	**30PV11**	
				10 to 125 psi	GA	30PV12	**30PV12**	
				50 to 175 psi	GA	30PV13	**30PV13**	
Bronze Body								
Series 1156F								
¾"	¾"	3½"	6½"	8 to 21 psi	Watts	BD1156F	**54TP06**	
Lead Free Brass Body								
Series 560								
⅛"	⅛"	1½"	2"	0 to 25 psi	Watts	⅛ LF560 0-25	**26X144**	
				0 to 60 psi	Watts	⅛ LF560 0-60	**26X145**	
				0 to 125 psi	Watts	⅛ LF560 0-125	**26X146**	
¼"	¼"			0 to 125 psi	Watts	¼ LF560G 0-125	**26X147**	*
				0 to 125 psi	Watts	¼ LF560 0-125	**26X148**	
Series H560G								
¾"	¾"	3"	2¼"	10 to 60 psi	Watts	LFH560-G-3/4	**26X143**	*
Thermoplastic Body								
Series P60								
¼"	¼"	2"	3"	0 to 125 psi	Watts	p-60	**1DMK5**	

** Includes pressure gauge.*



No. 1RWL4

SPENCE

Pressure Regulators

- Cast-iron body
- FNPT connections, except Nos. 49AC45 to 49AC76 are flanged

PRESSURE REGULATORS

- Max. pressure: 250 psi
- Max. temp.: 450°F

For use in steam distribution and pressure control in district heating systems and steam plants. Suitable for single point or multiple use applications and can be used in single-stage, 2-stage, and parallel reductions. Nos. 49AC45 to 49AC60 are Class 125, Nos. 49AC61 to 49AC76 are Class 250. All models meet ANSI/FCI 70-2 Class IV shutoff, FCI 70-3 Class VI shutoff, ASME/ANSI B16.1.

PILOT-OPERATED

- Max. pressure: 250 psi
- Max. temp.: 450°F

Self-contained for steam line control within ±1 psig of set pressure under varying load conditions. Fitting a sensing line (not included) allows pilot to sense downstream pressure changes and quickly adjust to meet steam demand. All stainless steel internals. Meet ASME B16.1 with ANSI Class 4 seat tightness.

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range: 3 to 20 psi Item No.	5 to 50 psi Item No.	10 to 100 psi Item No.	20 to 150 psi Item No.
Pressure Regulator							
2½"	2½"	11"	14½"	**49AC45**	**49AC46**	**49AC47**	**49AC48**
2½"	2½"	11"	14½"	**49AC61**	**49AC62**	**49AC63**	**49AC64**
3"	3"	11¾"	16"	**49AC49**	**49AC50**	**49AC51**	**49AC52**
3"	3"	11¾"	16"	**49AC65**	**49AC66**	**49AC67**	**49AC68**
4"	4"	14¾"	20"	**49AC53**	**49AC54**	**49AC55**	**49AC56**
4"	4"	14¾"	20"	**49AC69**	**49AC70**	**49AC71**	**49AC72**
6"	6"	19¾"	24½"	**49AC57**	**49AC58**	**49AC59**	**49AC60**
6"	6"	19¾"	24½"	**49AC73**	**49AC74**	**49AC75**	**49AC76**
Pilot-Operated Pressure Regulator							
½"	½"	4⅜"	12⅝"	**1RWL4**	—	**1RWN4**	—
¾"	¾"	4¾"	12⅞"	**1RWL5**	—	**1RWN5**	—
1"	1"	5⅜"	13⅜"	**1RWL6**	—	**1RWN6**	**1RWP6**
1¼"	1¼"	6½"	13⅞"	**1RWL7**	—	**1RWN7**	**1RWP7**
1½"	1½"	7¼"	14½"	**1RWL8**	—	**1RWN8**	—
2"	2"	7½"	15"	**1RWL9**	—	**1RWN9**	**1RWP9**

Self-Contained Temperature Regulators

SPENCE

Self-operated, 2-way regulators control temperature of water, steam, or other liquid systems without electricity. Thermal system assembly with gauge, 8" bronze capillary. 1" NPT male union bushing. Adjusting screw and calibration scale allow easy setting. Bronze construction with steel springs and seats. Direct-acting valves are used for heating and are normally open; reverse-acting valves are used for cooling and are normally closed. Galvanized FNPT union end connections. Suitable for heat exchangers, kettles, building heat, bottle-washing machinery, plating tanks, heating ducts, cooking vats, and parts washers.

REPLACEMENT THERMOWELLS

- Inlet connection: 1" MNPT
- Max. pressure: 250 psi
- Max. temp.: -25° to 400°F

Allow for removal of temperature probe without having to drain contents from tank.



No. 1RXL5



No.3EJJ6

Pipe Size	Max. Pressure	Sensor Length	Overall Width	Overall Height	Temp. Range	Direct Acting Temperature Regulator Mfr. Model	Direct Acting Temperature Regulator Item No.	Reverse Acting Temperature Regulator Mfr. Model	Reverse Acting Temperature Regulator Item No.
½"	250 psi	13⅜"	5½"	12⅜₁₆"	120° to 230°F	2010AC-GQK	1RXN2	2020AC-GQK	1RXP5
		19"	5½"	12⅜₁₆"	45° to 140°F	2010AC-GQD	1RXL5	2020AC-GQD	1RXN8
¾"	90 psi	13⅜"	5½"	12⅜₁₆"	120° to 230°F	2010TD-GQK	1RXN3	2020TD-GQK	1RXP6
		19"	5½"	12⅜₁₆"	45° to 140°F	2010TD-GQD	1RXL6	2020TD-GQD	1RXN9
1"	65 psi	13⅜"	7⅜₁₆"	15¼"	120° to 230°F	2010TE-GQK	1RXN4	2020TE-GQK	1RXP7
		19"	7⅜₁₆"	15¼"	45° to 140°F	2010TE-GQD	1RXL7	—	—
1¼"	40 psi	13⅜"	8⅝₁₆"	15¹¹⁄₁₆"	120° to 230°F	2010TF-GQK	1RXN5	2020TF-GQK	1RXP8
		19"	8⅝₁₆"	15¹¹⁄₁₆"	45° to 140°F	2010TF-GQD	1RXL8	2020TF-GQD	1RXP2
1½"	30 psi	13⅜"	8⅝₁₆"	15¹¹⁄₁₆"	120° to 230°F	2010TG-GQK	1RXN6	—	—
		19"	8⅝₁₆"	15¹¹⁄₁₆"	45° to 140°F	2010TG-GQD	1RXL9	2020TG-GQD	1RXP3
2"	20 psi	13⅜"	8⅝₁₆"	15¹¹⁄₁₆"	120° to 230°F	2010TH-GQK	1RXN7	—	—
		19"	8⅝₁₆"	15¹¹⁄₁₆"	45° to 140°F	2010TH-GQD	1RXL1	2020TH-GQD	1RXP4

Material	Insertion Length	Item No.
Replacement Thermowells		
Brass	10.5"	3EJJ6
	10.5"	3EJJ8
316 Stainless Steel	10.5"	3EJJ7
	12.5"	3EJJ9

WATTS REGULATOR

Lead-Free Pressure-Reducing Valves—25 AUB Series

No. 5DMA4



- Max. pressure: 300 psi
- Max. temp.: 160°F

Union inlet connection, integral stainless steel strainer, and temp.-resistant reinforced EPDM diaphragm for hot water. Certified for use in potable water applications. All meet ASSE 1003, CSA B356, and are IAPMO Listed, except No. 26X116 is IAPMO Listed only. Nos. 5DMA4 to 5DMA9, 5DMC0, and 26X116 meet Southern Plumbing Code and Mil. Spec. MIL-V-18146B Type I, except No. 26X116 meets the Mil. Spec. only. Nos. 5DMA4 to 5DMA8 meet CSA B356, Southern Plumbing Code, and Mil. Spec. MIL-V-18146B Type I. Nos. 5DMA4 to 5DMC0 and 26X116 meet ANSI A112.26.

Pipe Size	Connec. Type	Pressure Adjustment Range 25 to 75 psi Item No.	Pressure Adjustment Range 75 to 125 psi Item No.
½"	FIP	—	26X116
	FNPT Union x FNPT	5DMA4	—
	FNPT X FNPT	25CC96	—
¾"	FNPT Union x FNPT	5DMA5	—
	FNPT X FNPT	25CC97	25CD03
1"	FNPT X FNPT	25CC98	25CD04
1¼"	FNPT Union x FNPT	5DMA8	—
	FNPT X FNPT	25CC99	—
1½"	FNPT Union x FNPT	5DMA9	—
	FNPT X FNPT	25CD01	—
2"	FNPT Union x FNPT	5DMC0	—
	FNPT X FNPT	25CD02	—

No. 6KJ91



No. 26X107



WATTS REGULATOR

Apollo Valves

High- and Super-Capacity Water Pressure-Reducing Valves

- Adjustable range: 25 to 75 PSI
- Preset pressure: 50 psi

Feature an enlarged diaphragm and orifice and a spring cage to handle high capacities. FNPT connections. Lead-Free valves are certified for use in potable water applications.

APOLLO, SUPER-CAPACITY

- Max. inlet pressure: 400 psi
- Max. temp.: 180°F

With built-in thermal expansion bypass, adjusting screws, nut, cap bolts, and easy access for maintenance/repair. Meet ASSE 1003, ANSI A112.26.2, CSA B356, and IAPMO.

APOLLO, SUPER-CAPACITY LEAD FREE

- Max. pressure: 400 psi
- Max. temp.: 180°F

Use to reduce incoming water pressure to help protect plumbing system components and reduce water consumption. Feature built-in thermal expansion bypass. Meet ASSE 1003, CSA B356, and NSF/ANSI 372.

WATTS

- Max. pressure: 300 psi
- Max. temp.: 160°F

Meet ASSE 1003, ANSI A112.26.2, IAPMO, Mil. Spec. MIL-V-18146B, and CSA B356.

Pipe Size	APOLLO Super Capacity Valve Type, Bronze Item No.	APOLLO Super Capacity Valve Type, Lead Free Bronze Item No.	WATTS Super Capacity Valve Type, Lead Free Brass Item No.	Inlet Outlet Size	Inlet Outlet Size	WATTS Lead Free Brass Item No.
Water Pressure Reducing Valve				**Water Pressure Regulator Valve**		
½"	6KJ91	40D793	5DMC1	½"	½"	26X107
¾"	6KJ92	40D794	5DMC2	¾"	¾"	26X108
1"	6KJ93	40D795	5DMC3	1"	1"	26X109
1¼"	6KJ94	40D796	5DMC4	1¼"	1¼"	26X110
1½"	6KJ95	40D797	5DMC5	1½"	1½"	26X111
2"	6KJ96	40D798	5DMC6	2"	2"	26X112
2½"	—	40D799	—	2½"	2½"	26X113
3"	—	40D801	—	3"	3"	26X114

No. 5DLZ4



No. 36JA73



WATTS REGULATOR

Lead-Free, High-Capacity Water Pressure-Reducing Valves—U5B/127W Series

- Max. pressure: 300 psi

U5B Series—All have stainless steel strainer (except Nos. 25CC94 and 25CC95), and built-in thermal expansion bypass with check valve. Lead-free brass construction. Certified for use in potable water applications and meet CSA B356 and ASSE 1003. All models are IAPMO Listed, except No. 26X115. Meet Southern Standard Plumbing Code, except Nos. 25CC94, 25CC95, and 26X115. Meet ANSI A112.26, except Nos. 25CC94 and 25CC95.

127W Series—Feature a high temperature-resisting diaphragm, interchangeable diaphragm chamber, and replaceable stainless steel seat and stem. Lead-free iron construction, except No. 36JA73 is lead-free copper silicon alloy.

Pipe Size	Pressure Adjustment Range 10 to 35 psi Preset H	Connec. Type	Pressure Settings	Max. Temp.	Item No.	Pressure Adjustment Range 25 to 75 psi Preset H	Connec. Type	Pressure Settings	Max. Temp.	Item No.
U5B Series										
½"	5⅞"	FNPT X FNPT	30 psi	180°F	25CC94	5⅞"	FNPT Union x FNPT	50 psi	160°F	5DLZ4
¾"	6⅞"	FNPT X FNPT	30 psi	180°F	25CC95	6⅞"	FNPT Union x FNPT	50 psi	160°F	5DLZ5
1"	7⅜"	FNPT Union x FNPT	20 psi	160°F	26X115	7⅜"	FNPT Union x FNPT	50 psi	160°F	5DLZ6
1¼"	9⅜"	FNPT	30 psi	160°F	38YJ09	8⅜"	FNPT	50 psi	160°F	38YJ08
1½"	8⅜"	FNPT	30 psi	160°F	38YJ11	12¼"	FNPT	50 psi	160°F	38YJ10
2"	9⅜"	FNPT	30 psi	160°F	38YJ12	—	—	—	—	—
2"	12¼"	FNPT	30 psi	160°F	38YJ13	—	—	—	—	—

Pipe Size	H	Connec. Type	Preset Pressure Settings	Max. Temp.	Pressure Adjustment Range 20 to 100 psi Item No.
127W Series					
3"	18½"	FNPT	50 psi	160°F	36JA73
3"	19⅞"	Flanged	50 psi	160°F	36JA74
4"	20⅝"	Flanged	50 psi	160°F	36JA75

SPENCE

Direct-Acting Pressure-Reducing Valves



- Max. pressure: 200 psig
- Max. temp.: 400°F

Quick-response, pressure-reducing valves are suitable for air, water, and steam service. Cast-iron construction with internal stainless steel strainer, adjustable pressure screw, and 5 spring ranges. FNPT connections. Meet Class IV shutoff.

▶CHOOSE: Inlet Size	▶CHOOSE: Outlet Size	▶CHOOSE: Pressure Adjustment Range	L	H	Item No.
1", 1¼"	1", 1¼"	3 to 15 psi, 10 to 30 psi, 30 to 140 psi	7½"	9¼"	**H6903**
1½", 2"	1½", 2"	5 to 40 psi, 30 to 100 psi	9"	14¼"	**H6904**

WATTS

Pressure Regulators

Provide a highly sensitive response to reduced pressure changes and can maintain fullest possible volume without appreciable reduced pressure drop. Allow in-line service and feature a sensitivity adjuster that helps eliminate vibrating conditions. Stainless steel seat and disc. FNPT connections. Ideal for use on autoclaves, oil lines, process lines, single radiators, sterilizers, steam tables, and vulcanizers.

PROCESS STEAM PRESSURE REGULATORS

- Max. pressure: 200 psi
- Max. temp.: 300°F

For steam or liquid applications. Iron body.

STEAM PRESSURE REGULATORS

- Max. pressure: 300 psi
- Max. temp.: 420°F

For steam or liquid applications. Stainless steel body.





Pipe Size	L	H	Pressure Adjustment Range: 3 to 15 psi Item No.	5 to 40 psi Item No.	10 to 30 psi Item No.	10 to 50 psi Item No.	30 to 100 psi Item No.	30 to 140 psi Item No.
Process Steam Pressure Regulators								
½"	6"	8 15/16"	**36JA81**	—	—	**36JA82**	—	**36JA83**
¾"	6"	8 15/16"	**36JA84**	—	—	**36JA85**	—	**36JA86**
1"	7½"	9 11/16"	**36JA87**	—	**36JA88**	—	—	**36JA89**
1¼"	7½"	9 11/16"	**36JA90**	—	**36JA91**	—	—	**36JA92**
1½"	9"	14"	—	**36JA93**	—	—	**36JA94**	—
2"	9"	14"	—	**36JA95**	—	—	**36JA96**	—

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range: 3 to 15 psi Item No.	10 to 50 psi Item No.	30 to 140 psi Item No.
Steam Pressure Regulators						
½"	½"	6"	8¾"	**36JA97**	—	**36JA99**
¾"	¾"	6"	8¾"	—	**36JC02**	**36JC03**
1"	1"	6"	8¾"	—	**36JC05**	—







ZURN WILKINS | Apollo Valves | CASH ACME OVERBUILT IS AN UNDERSTATEMENT.

Lead-Free Bronze Water Pressure-Reducing Valves

- Max. pressure: 300 psi, except Nos. 40D776 to 40D792 are 400 psi
- Preset pressure settings: 50 psi, except for No. 49EL62
- Max. temp.: 140°F, except Nos. 40D776 to 40D831, 49EL62 are 180°F

Feature a balanced piston design that allows valves to react in a smooth and responsive manner to changes in system flow demand, while also controlling inlet pressure changes. Nos. 22N570 to 22N575 have a direct-acting bypass design to help prevent excessive pressure buildup caused by thermal expansion. Include a bypass check valve. All valves have a high-flow capacity and are suitable for use in industrial water lines and commercial irrigation systems. Find Repair Kit contents at Grainger.com®. Certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Pipe Size	Connec. Type	Press. Adj. Range	L	H	Brand	Item No.
With Strainer						
½"	FNPT Union x FNPT	25 to 75 psi	5½"	6¼"	Zurn	**22N570**
	Double Union FNPT	25 to 75 psi	6"	6"	Zurn	**453U62**
	Double Union FNPT Copper Sweat	25 to 75 psi	6"	6"	Zurn	**453U63**
¾"	FNPT	25 to 75 psi	4⅜"	5½"	Zurn	**54EF55**
	FNPT	25 to 75 psi	5 5/16"	5½"	Zurn	**54EF53**
	FNPT	25 to 75 psi	5 5/16"	5½"	Zurn	**54EF54**
	FNPT Union x FNPT	25 to 75 psi	5 5/16"	5½"	Zurn	**22N571**
	Single Union FNPT	25 to 75 psi	6"	6"	Zurn	**453U61**
	Double Union FNPT	25 to 75 psi	5⅞"	6 11/16"	Zurn	**453U59**
	Double Union FNPT Copper Sweat	25 to 75 psi	5⅞"	6 11/16"	Zurn	**453U60**
1"	FNPT	25 to 75 psi	5 5/16"	7¼"	Zurn	**54EF52**
	FNPT	25 to 75 psi	6"	7¼"	Zurn	**54EF50**
	FNPT	25 to 75 psi	6"	7¼"	Zurn	**54EF51**
	FNPT Union x FNPT	25 to 75 psi	6⅛"	7¼"	Zurn	**22N572**
	Single Union FNPT	25 to 75 psi	5⅞"	6 11/16"	Zurn	**453U58**
	Union x FNPT	25 to 75 psi	10"	8½"	Zurn	**45K844**
1¼"	FNPT Union x FNPT	25 to 75 psi	7⅛"	8"	Zurn	**22N573**
1½"	FNPT Union x FNPT	25 to 75 psi	9⅛"	10"	Zurn	**22N574**
2"	FNPT Union x FNPT	25 to 75 psi	10¼"	12"	Zurn	**22N575**
Without Strainer						
½"	Double Union FNPT	15 to 75 psi	5⅜"	6"	Apollo	**40D788**
	Double Union FNPT	25 to 75 psi	5⅝"	5-8/9"	Apollo	**40D820**
	Double Union Solder	15 to 75 psi	5½"	6"	Apollo	**40D787**
	Double Union Solder	25 to 75 psi	5⅝"	5-8/9"	Apollo	**40D826**
	FNPT	15 to 75 psi	3⅝"	6"	Apollo	**40D776**
	FNPT	25 to 75 psi	4"	5-8/9"	Apollo	**40D808**
	FNPT	25 to 75 psi	4 57/64"	5-8/9"	Apollo	**40D814**
	Single Union FNPT	15 to 75 psi	4½"	6"	Apollo	**40D782**
	Single Union FNPT	25 to 75 psi	4 57/64"	5-8/9"	Apollo	**40D802**
	Single Union Solder x FNPT	15 to 75 psi	4½"	6"	Apollo	**40D781**
	Union x FNPT	25 to 75 psi	4½"	6"	Zurn	**45K826**
	Union x FNPT	25 to 75 psi	8¼"	7"	Zurn	**45K842**
¾"	Double Union FNPT	15 to 75 psi	5½"	6"	Apollo	**40D790**
	Double Union FNPT	25 to 75 psi	5⅝"	5-8/9"	Apollo	**40D821**
	Double Union Solder	15 to 75 psi	5½"	6"	Apollo	**40D789**
	Double Union Solder	25 to 75 psi	5⅝"	5-8/9"	Apollo	**40D827**
	FNPT	15 to 75 psi	3⅝"	6"	Apollo	**40D778**
	FNPT	25 to 75 psi	3 57/64"	5-8/9"	Apollo	**40D809**
	NPT	20 to 90 psi	5½"	8 53/64"	Cash Acme	**49EL62**
	Single Union FNPT	15 to 75 psi	4½"	6"	Apollo	**40D784**
	Single Union FNPT	25 to 75 psi	4 57/64"	5-8/9"	Apollo	**40D803**
	Single Union Solder x FNPT	15 to 75 psi	4½"	6"	Apollo	**40D783**
	Single Union Solder x FNPT	25 to 75 psi	4 57/64"	5-8/9"	Apollo	**40D815**
	Union x FNPT	25 to 75 psi	4⅝"	6"	Zurn	**45K827**
	Union x FNPT	25 to 75 psi	9⅛"	7¾"	Zurn	**45K843**

Pipe Size	Connec. Type	Press. Adj. Range	L	H	Brand	Item No.
1"	Double Union FNPT	15 to 75 psi	5¾"	6"	Apollo	**40D792**
	Double Union FNPT	25 to 75 psi	6⅜"	6-8/9"	Apollo	**40D822**
	Double Union Solder	15 to 75 psi	5¾"	6"	Apollo	**40D791**
	Double Union Solder	25 to 75 psi	6⅜"	6-8/9"	Apollo	**40D828**
	FNPT	15 to 75 psi	3⅝"	6"	Apollo	**40D780**
	FNPT	25 to 75 psi	4⅜"	6-8/9"	Apollo	**40D810**
	Single Union FNPT	15 to 75 psi	4⅜"	6"	Apollo	**40D786**
	Single Union FNPT	25 to 75 psi	5½"	6-8/9"	Apollo	**40D804**
	Single Union Solder x FNPT	15 to 75 psi	4⅜"	6"	Apollo	**40D785**
	Single Union Solder x FNPT	25 to 75 psi	5½"	6-8/9"	Apollo	**40D816**
	Union x FNPT	25 to 75 psi	5⅛"	6⅞"	Zurn	**45K828**
1¼"	Double Union FNPT	25 to 75 psi	7½"	8-8/9"	Apollo	**40D823**
	Double Union Solder	25 to 75 psi	7¾"	8-8/9"	Apollo	**40D829**
	FNPT	25 to 75 psi	5⅜"	8-8/9"	Apollo	**40D811**
	Single Union FNPT	25 to 75 psi	6½"	8-8/9"	Apollo	**40D805**
	Single Union Solder x FNPT	25 to 75 psi	6⅝"	8-8/9"	Apollo	**40D817**
	Union x FNPT	25 to 75 psi	6 5/16"	7¼"	Zurn	**45K829**
	Union x FNPT	25 to 75 psi	13⅛"	9¼"	Zurn	**45K845**
1½"	Double Union FNPT	25 to 75 psi	7 57/64"	8-8/9"	Apollo	**40D824**
	Double Union Solder	25 to 75 psi	8"	8-8/9"	Apollo	**40D830**
	FNPT	25 to 75 psi	5⅜"	8-8/9"	Apollo	**40D812**
	Single Union FNPT	25 to 75 psi	6⅝"	8-8/9"	Apollo	**40D806**
	Single Union Solder x FNPT	25 to 75 psi	6¾"	8-8/9"	Apollo	**40D818**
	Union x FNPT	25 to 75 psi	8 5/16"	10"	Zurn	**45K830**
	Union x FNPT	25 to 75 psi	17⅝"	11¾"	Zurn	**45K846**
2"	Double Union FNPT	25 to 75 psi	9 57/64"	11½"	Apollo	**40D825**
	Double Union Solder	25 to 75 psi	10½"	11½"	Apollo	**40D831**
	FNPT	25 to 75 psi	7⅛"	11½"	Apollo	**40D813**
	Single Union FNPT	25 to 75 psi	8½"	11½"	Apollo	**40D807**
	Single Union Solder x FNPT	25 to 75 psi	8 57/64"	11½"	Apollo	**40D819**
	Union x FNPT	25 to 75 psi	9½"	10¾"	Zurn	**45K831**
	Union x FNPT	25 to 75 psi	18⅜"	13½"	Zurn	**45K847**
2½"	Union x FNPT	25 to 75 psi	10"	14½"	Zurn	**45K832**
	Union x FNPT	25 to 75 psi	19⅜"	17½"	Zurn	**45K848**
3"	Union x FNPT	25 to 75 psi	11⅛"	16"	Zurn	**45K833**
	Union x FNPT	25 to 75 psi	25"	19"	Zurn	**45K849**

Size	For Use With Grainger Item Number	Brand	Item No.
Repair Kits			
½"	45K826	Zurn	**45K834**
¾"	45K827	Zurn	**45K835**
1"	45K828	Zurn	**45K836**
1¼"	45K829	Zurn	**45K837**
1½"	45K830	Zurn	**45K838**
2"	45K831	Zurn	**45K839**
2½"	45K832	Zurn	**45K840**
3"	45K833	Zurn	**45K841**

Size	For Use With Grainger Item Number	Brand	Item No.
Valve Rebuild Kits			
¾"	54EF53, 54EF54	Zurn	**54EF57**
1"	54EF50, 54EF51, 54EF52	Zurn	**54EF56**
8", 10", 12"	—	Zurn	**54EF58**

T&P Valves

- Max. temp.: 210°F

Provide automatic temperature and pressure protection for hot water heaters and supply tanks. Test lever allows pressure checks during operation. ASME rated, CSA Certified, and meet ANSI Z21.22.

STANDARD SHANK
No. 4P947 meets FHA requirements and Mil. Spec. MIL-V-136-12D, Type 1.

EXTENDED SHANK
Use with water heaters containing thick insulation.



Standard Shank No. 2XLA3 | Extended Shank No. 3EEX3

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Thermostat Length	Body Height	BtuH	Factory Set Pressure	Brand	Mfr. Model	Item No.
Standard Shank										
½"	½"	MNPT	FNPT	3"	6¼"	15,000	125 psi	Apollo	18C40129	**3EEX1**
		FNPT	FNPT	2⅞"	5⁹⁄₁₆"	1,912,000	150 psi	Cash Acme	FVX-3C	**2XLA3**
		FNPT	FNPT	5"	10⅞"	1,619,000	125 psi	Apollo	18C5125125	**3HFG2**
		MNPT	FNPT	3"	6"	1,912,000	150 psi	Cash Acme	FVMX-3C	**2XLA6**
¾"	¾"	MNPT	FNPT	3"	6⅛"	105,000	125 psi	Apollo	18C40229	**3EEX2**
		MNPT	FNPT	4"	3½"	100,000	150 psi	Watts	100XL-4	**4X563**
		MNPT	FNPT	4"	3½"	105,000	125 psi	Watts	¾ 100XL 125	**3AZA4**
		MNPT	FNPT	4¾"	6"	1,912,000	150 psi	Cash Acme	FVMX-5C	**2RMY8**
		MNPT	FNPT	5"	11"	1,619,000	125 psi	Apollo	18C5115125	**3HFG1**
		FNPT	FNPT	6"	5½"	670,000	150 psi	Watts	1"140X-6	**4P947**
1"	1"	MNPT	FNPT	3"	8⅜"	1,825,000	125 psi	Apollo	18C5213125	**3HFG3**
		MNPT	FNPT	3 1⁄16"	6"	2,155,000	150 psi	Cash Acme	FVMX-3C	**2XLA4**
		MNPT	FNPT	4¾"	6"	2,155,000	150 psi	Cash Acme	FVMX-5C	**2XLA5**
1¼"		MNPT	FNPT	4"	10¼"	3,070,000	125 psi	Apollo	18C5314125	**3HFG4**
		MNPT	FNPT	4"	10¼"	3,625,000	150 psi	Apollo	18C5314150	**3HFG5**
1½"	1½"	FNPT	FNPT	4"	11⁹⁄₁₆"	5,125,000	125 psi	Apollo	18C5424125	**3HFG6**
		FNPT	FNPT	4"	11⁹⁄₁₆"	6,050,000	150 psi	Apollo	18C5424150	**3HFG7**
2"		MNPT	FNPT	3"	11⅞"	5,125,000	125 psi	Apollo	18C5513125	**3EEW8**
		MNPT	FNPT	3"	11⅞"	6,050,000	150 psi	Apollo	18C5513150	**3EEW9**
Extended Shank										
¾"	¾"	MNPT	FNPT	2⅛"	5¼"	105,000	150 psi	Watts	LLL100XL	**2XE96**
		MNPT	FNPT	2½"	6¾"	100,000	150 psi	Watts	LL100XL	**2XE95**
		MNPT	FNPT	3"	7½"	105,000	125 psi	Apollo	18C402X39	**3EEX3**
		MNPT	FNPT	4"	4¼"	100,000	150 psi	Watts	L100XL-3	**6LM08**

Boiler Feed Valves

- Max. pressure: 100 psi
- Adjustable pressure range: 10 to 25 psi
- Max. temp.: 212°F

Cast-iron valves permit rapid system fill and sustained air purge flow. With strainer screen. Factory set at 15 psi. Nos. 46A967 and 46A968 feature a backflow preventer.



No. 3A558 | No. 46A968

Inlet/ Outlet	L	H	Connec. Type	Mfr. Model	Item No.
½"	3½"	5⅜"	FNPT x FNPT	1156F	**3A558**
	3½"	5⅜"	MNPT	B1156F	**46A976**
	3½"	5¾"	MNPT	1156F-A	**46A975**
	4⅛"	5⅜"	FNPT x Sweat Union	S1156F	**4A824**
	4⅛"	5⅜"	FNPT	TB1156F	**46A977**
	4⅜"	5⅜"	Female Solder	SB1156F	**46A974**
	8½"	5¼"	FNPT and NPT Union	911-M3	**46A967**
	8½"	5¼"	FNPT x Sweat Union	911S-M3	**46A968**

ASME Section IV Steam Low-Pressure Safety Relief Valves

- Pressure range: 5 to 15 psi; factory preset to 15 psi
- Max. temp.: 250°F

High-capacity valves for medium- and large-size heating boilers. Cast-bronze construction and MNPT x FNPT connections. ⅜" NPT side tapping for drain connection. Suitable for industrial and commercial applications. Meet ASME Section IV, CSA, and CRN.



No. 1CKX9

Inlet Size	Outlet Size	Overall Height	Item No.
2"	2"	7⅛"	**1CKX9**
2½"	2½"	8¼"	**1CKY1**
3"	3"	9⅜"	**1CKY2**



No. 4A822



No. 2P074



No. 3AZD1

Safety Relief Valves

Nonmechanical seat-to-disc alignment. FNPT connections, except No. 46A979 is union solder connection.

FILL AND RELIEF
- Max. water pressure: 100 psi
- Max. temp.: 212°F

Fully adjustable from 10 to 25 lb. Include strainer screen. Cast-iron body, painted bronze.

SAFETY RELIEF
- Max. temp.: 250°F

Drain seal eliminates water trapping and sediment fouling. Heat-resistant diaphragm isolates springs and working parts from water during release. Brass springs, Buna N disc.

174A Series—Meet Mil. Spec. MIL-V-136-RD, Type III, as well as ASME, NB, and HV, except Nos. 26X179 to 26X195 meet ASME Section IV only.

374A Series—Forged bronze inlet. Meet Mil. Spec. MIL-V-18634B, Type I, Class 3A, Style A, Bronze Body, as well as ASME.

740A Series—Expanded outlets. Meet Mil. Spec. MIL-V-18634B, Type I, Class 3A, Style A, Bronze Body, as well as ASME, except Nos. 26X150 to 26X157, 26X160, and 26X161 meet ASME Section IV only.

Inlet Size	Outlet Size	Overall Length	Overall Height	BtuH	Factory Set Pressure	Mfr. Model	Item No.
Fill and Relief							
½"	½"	6½" 7"	5⁵⁄₁₆"	—	15 psi	1450F	**4A822**
				—	30 psi	S1450F	**46A979**
Safety Relief Valve—174A Series							
¾"	¾"	2½"	5⅛"	650,000	30 psi	174 A-3/4"	**2P074**
				950,000	50 psi	¾ 174A-050	**26X179**
				1,320,000	75 psi	¾ 174A-075	**26X180**
				1,695,000	100 psi	¾ 174A-100	**26X181**
				2,070,000	125 psi	¾ 174A-125	**26X182**
				2,445,000	150 psi	¾ 174A-150	**26X183**
1"	1"	3"	5¾"	1,470,000	50 psi	1 174A-050	**26X184**
				2,055,000	75 psi	1 174A 75	**4UV68**
				2,635,000	100 psi	1 174A 100	**4UV69**
				3,215,000	125 psi	1 174A 125	**4UV70**
				3,795,000	150 psi	1 174A-150	**26X185**
1¼"	1¼"	4¾"	8⅜"	1,682,000	30 psi	11/4 174 A	**3AZD9**
				3,429,000	75 psi	1 ¼ 174A-075	**26X187**
				4,399,000	100 psi	1 ¼ 174A-100	**26X188**
				5,370,000	125 psi	1 ¼ 174A-125	**26X189**
				6,340,000	150 psi	1 ¼ 174A-150	**26X186**
1½"	1½"	4⅞"	9"	7,630,000	150 psi	1 ½ 174A-150	**26X190**
2"	2"	6¼"	11⅝"	3,815,000	30 psi	2 174 A	**3AZE2**
				5,575,000	50 psi	2 174A-050	**26X191**
				7,770,000	75 psi	2 174A-075	**26X192**
				9,970,000	100 psi	2 174A-100	**26X193**
				12,170,000	125 psi	2 174A-125	**26X194**
				14,370,000	150 psi	2 174A-150	**26X195**
Safety Relief Valve—374A Series							
¾"	¾"	2½"	3⅝"	550,000	30 psi	¾ 374 A	**3AZD6**
Safety Relief Valve—740A Series							
¾"	1"	3"	5⅝"	925,000	30 psi	¾ 740	**3AZD1**
				1,352,000	50 psi	¾ 740-050	**26X150**
				1,886,000	75 psi	¾ 740-075	**26X151**
1"	1¼"	3½"	7¼"	1,300,000	30 psi	1 740	**3AZD2**
				1,899,000	50 psi	1 740-050	**26X152**
				2,649,000	75 psi	1 740-075	**26X153**
1¼"	1½"	4⅝"	8¾"	2,105,000	30 psi	11/4 740	**3AZD3**
				3,075,000	50 psi	1 ¼ 740-050	**26X154**
				4,285,000	75 psi	1 ¼ 740-075	**26X155**
1½"	2"	5¼"	9¼"	2,900,000	30 psi	11/2 740	**3AZD4**
				4,237,000	50 psi	1 ½ 740-050	**26X156**
				5,909,000	75 psi	1 ½ 740-075	**26X157**
2"	2½"	6¾"	11⅝"	5,250,000	30 psi	2 740	**3AZD5**
				7,672,000	50 psi	2 740-050	**26X160**
				10,700,000	75 psi	2 740-075	**26X161**

ASME Section IV Safety Relief Valves

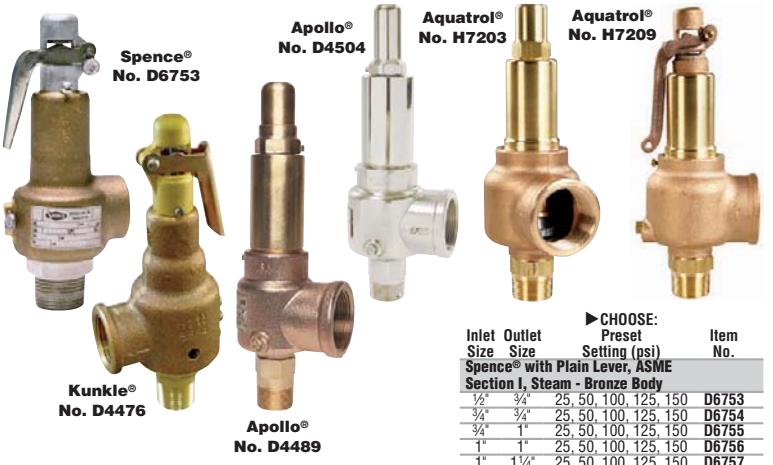
- Pressure range: 15 to 160 psig
- Max. temp.: 250°F

Protect against excessive water pressure due to failure of controls to regulate BTU input. High BTU capacity rating. Bronze body and cover. Corrosion-resistant with silicone seat. Fabric reinforced, molded diaphragm isolates spring from water at all times. FNPT connections. Designed for boilers, heating systems, and unfired pressure vessels. Meet ASME Section IV, CSA, and CRN.



No. 1CKV5

Inlet Size	Outlet Size	30 psi Preset Setting BtuH	30 psi Preset Setting Item No.	50 psi Preset Setting BtuH	50 psi Preset Setting Item No.	75 psi Preset Setting BtuH	75 psi Preset Setting Item No.	100 psi Preset Setting BtuH	100 psi Preset Setting Item No.	125 psi Preset Setting BtuH	125 psi Preset Setting Item No.	150 psi Preset Setting BtuH	150 psi Preset Setting Item No.
¾"	¾"	827,000	**1CKV5**	1,209,000	**1CKV6**	1,686,000	**1CKV7**	2,162,000	**1CKV8**	2,639,000	**1CKV9**	3,116,000	**1CKW1**
1"	1"	1,339,000	**1CKW2**	1,956,000	**1CKW3**	2,728,000	**1CKW4**	3,500,000	**1CKW5**	4,272,000	**1CKW6**	5,044,000	**1CKW7**
1¼"	1¼"	2,316,000	**6KJ72**	3,384,000	**1CKW8**	4,720,000	**6KJ73**	6,055,000	**1CKW9**	7,390,000	**6KJ74**	8,725,000	**6KJ75**
1½"	1½"	3,151,000	**6KJ76**	4,604,000	**1CKX1**	6,421,000	**6KJ77**	8,238,000	**1CKX2**	10,054,000	**6KJ78**	11,871,000	**6KJ79**
2"	2"	5,193,000	**6KJ80**	7,589,000	**1CKX3**	10,583,000	**6KJ81**	13,577,000	**1CKX4**	16,571,000	**6KJ82**	19,565,000	**6KJ83**



SPENCE KUNKLE Apollo Valves Aquatrol

ASME Section I Steam and Section VIII POP Safety Relief Valves

Valves are factory preset and sealed to prevent tampering. Not adjustable. MNPT x FNPT connections.

Note: For ASME Certified valves custom set to other pressure settings, call 1-800-GRAINGER (472-4643).

SPENCE®

- Temp. range: 0° to 406°F

Dual ring control for dependable pop action and seat tightness. Plain lever for valve testing. Protect against overpressure in steam boilers, pressure reducing stations, and air compressors. ASME Section I for use with steam boilers and steam systems. ASME Section VIII for use with air and nonhazardous gas.

KUNKLE®

- Temp. range: -60° to 406°F

Pivot between disc and spring helps correct misalignment. ASME Section I has ethylene propylene seals; ASME Section VIII has Viton® seals. For air/gas compressors, steam boilers, and generators.

APOLLO®

- Temp. range: -320° to 800°F (stainless steel), -320° to 406°F (bronze)

Full-nozzle design can be used in closed systems. Metal-to-metal seating. Ideal for pressure vessels and pressure piping systems. Packed lever allows manual operation/testing as required by ASME code for steam, air, and hot water above 140°F service. Screwed cap are not for use with air, steam, or water above 140°F, where a packed lever must be used.

AQUATROL®, ASME SECTION VIII

- Temp. range: -320°F to 406°F

High-capacity, multipurpose valves with a dual lapped disc for improved seating tightness. Stainless steel disc and spring.

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Spence® with Plain Lever, ASME Section I, Steam - Bronze Body			
½"	¾"	25, 50, 100, 125, 150	D6753
¾"	¾"	25, 50, 100, 125, 150	D6754
¾"	1"	25, 50, 100, 125, 150	D6755
1"	1"	25, 50, 100, 125, 150	D6756
1"	1¼"	25, 50, 100, 125, 150	D6757
1¼"	1¼"	25, 50, 100, 125, 150	D6758
1¼"	1½"	25, 50, 100, 125, 150	D6759
1½"	1½"	25, 50, 100, 125, 150	D6761
1½"	2"	25, 50, 100, 125, 150	D6762
2"	2"	25, 50, 100, 125, 150	D6763
2"	2½"	25, 50, 100, 125, 150	D6764
2½"	2½"	25, 50, 100, 125, 150	D6765
Spence® with Plain Lever, ASME Section VIII, Air/Gas - Bronze Body			
½"	¾"	25, 50, 100, 125, 150	D6766
¾"	¾"	25, 50, 100, 125, 150	D6767
¾"	1"	25, 50, 100, 125, 150	D6768
1"	1"	25, 50, 100, 125, 150	D6769
1"	1¼"	25, 50, 100, 125, 150	D6771
1¼"	1¼"	25, 50, 100, 125, 150	D6772
1¼"	1½"	25, 50, 100, 125, 150	D6773
1½"	1½"	25, 50, 100, 125, 150	D6774
1½"	2"	25, 50, 100, 125, 150	D6775
2"	2"	25, 50, 100, 125, 150	D6776
2"	2½"	25, 50, 100, 125, 150	D6777
2½"	2½"	25, 50, 100, 125, 150	D6778
Kunkle® with Plain Lever, ASME Section I, Steam - Bronze Body			
½"	¾"	25, 50, 100, 150, 200	D4476
¾"	1"	25, 50, 100, 150, 200	D4477
1"	1¼"	25, 50, 100, 150, 200	D4478
1¼"	1½"	25, 50, 100, 150, 200	D4479
1½"	2"	25, 50, 100, 150, 200	D4481
2"	2½"	25, 50, 100, 150, 200	D4482
Kunkle® with Plain Lever, ASME Section VIII, Air/Gas - Bronze Body			
½"	¾"	25, 50, 100, 150, 200	D4483
¾"	1"	25, 50, 100, 150, 200	D4484
1"	1¼"	25, 50, 100, 150, 200	D4485
1¼"	1½"	25, 50, 100, 150, 200	D4486
1½"	2"	25, 50, 100, 150, 200	D4487
2"	2½"	25, 50, 100, 150, 200	D4488
Apollo® with Packed Lever, ASME Section VIII, Air/Gas, NB, CSA CRN - Stainless Steel Body			
1"	1¼"	50, 100, 150, 200, 300	D4508
1"	1½"	50, 100, 150, 200, 300	D4509
Apollo® with Screwed Cap, ASME Section VIII, Air/Gas, UV, CSA CRN - Bronze Body			
½"	¾"	75, 125, 150, 175, 200	D4489
½"	1"	75, 125, 150, 175, 200	D4491
¾"	¾"	75, 125, 150, 175, 200	D4492
¾"	1"	75, 125, 150, 175, 200	D4493
¾"	1¼"	75, 125, 150, 175, 200	D4494
1"	1¼"	75, 125, 150, 175, 200	D4495
1¼"	1½"	75, 125, 150, 175, 200	D4497
1¼"	2"	75, 125, 150, 175, 200	D4498
1½"	2"	75, 125, 150, 175, 200	D4499
1½"	2½"	75, 125, 150, 175, 200	D4501
2"	2½"	75, 125, 150, 175, 200	D4502
2"	3"	75, 125, 150, 175, 200	D4503
1"	1½"	125, 150, 175, 200	D4496
Apollo® with Screwed Cap, ASME Section VIII, Air/Gas, UV, NB, CSA CRN - Stainless Steel Body			
½"	1"	50, 100, 150, 200, 300	D4504
¾"	1"	50, 100, 150, 200, 300	D4505
¾"	1¼"	50, 100, 150, 200, 300	D4506
1"	1½"	50, 100, 150, 200, 300	D4507

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Aquatrol® with Closed Cap, ASME Section VIII, Liquid - Brass/Bronze			
½"	¾"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7203
¾"	1"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7204
1"	1¼"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7205
1¼"	1½"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7206
1½"	1½"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7207
2"	2"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7208
Aquatrol®, with Test Lever, ASME Section VIII, Air/Gas - Brass/Bronze Body			
½"	¾"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7209
¾"	1"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7210
1"	1¼"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7211
1¼"	1½"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7212
1½"	1½"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7213
2"	2"	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	H7214

Apollo Valves KUNKLE WATTS REGULATOR



Low-Pressure Steam Heating Boiler Safety Relief Valves

- Max. temp.: 250°F

All have top guiding seals and positive condensate drainage for extended service life. Cast-bronze construction, except Kunkle models are cast iron. Raised EPDM discs and seats; except Kunkle valves have bronze discs and brass seats, Watts valves have PTFE discs and metal seats. All have stainless steel springs except Kunkle models are steel. MNPT x FNPT connections. Nos. 3EEY1, 3EEY6, and 3EEY7 have MNPT bottom connection and top outlet discharge.

Inlet Size	Outlet Size	Factory Set Pressure	Overall Length	Overall Height	BtuH	Brand	Item No.
ASME Section IV, Coded							
¾"	¾"	15 psi	2¾16"	2⅛"	410,000	Apollo	3EEY1
¾"	¾"	15 psi	2-5/6"	3¹¹⁄₁₆"	475,000	Apollo	3EEY2
1"	1"	15 psi	5⅜"	2¹⁄₁₆"	643,000	Apollo	3EEY3
1¼"	1½"	15 psi	3⅜"	4½"	1,200,000	Apollo	3EEY4
1½"	2"	15 psi	4"	5¼"	1,900,000	Apollo	3EEY5
2"	2"	15 psi	3"	7¼"	—	Kunkle Valve	31LH25
2½"	2½"	15 psi	3½"	8¼"	—	Kunkle Valve	31LH26
3"	3"	15 psi	4"	8¾"	—	Kunkle Valve	31LH27
Inlet Size	**Outlet Size**	**Factory Set Pressure**	**Overall Length**	**Overall Height**	**Brand**		**Item No.**
Noncoded							
¾"	¾"	5 psi	2¾16"	2⅞"	Apollo		3EEY6
		5 psi	2-5/6"	3¹¹⁄₁₆"	Apollo		3EEY8
		10 psi	2¾16"	2⅞"	Apollo		3EEY7
		10 psi	2-5/6"	3¹¹⁄₁₆"	Apollo		3EEY9
		15 psi	2⅛"	2¾"	Watts		36JC12
		15 psi	2⅜"	2¹³⁄₁₆"	Watts		36JC13
1"	1"	5 psi	5⅜"	2¹⁄₁₆"	Apollo		3EEZ1
		10 psi	5⅜"	2¹⁄₁₆"	Apollo		3EEZ2
		15 psi	2⅜"	3⅛"	Watts		36JC14



Aquatrol

ASME Section VIII Air and Inert Gas Safety Relief Valves

- Pressure range: 0 to 250 psig
- Max. temp.: 406°F

Bronze valves have bronze discs, stainless steel springs, and precision lapped bronze seats. Single-ring blowdown assures quick, accurate reseating when opening/popping. MNPT x FNPT connections. For use in air compressors, pressurized production lines, and tanks. Series 88 models feature valve handle that allows field testing and simple cleanout. Series 89 models include sealed and closed hex cap.

Note: Valves are factory preset and sealed to prevent tampering. Not adjustable.

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Series 88			
½"	¾"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4511
¾"	1"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4512
1"	1¼"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4513
1¼"	1½"	15, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4514
1½"	2"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4515
2"	2½"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4516
Series 89			
½"	¾"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4517
¾"	1"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4518
1"	1¼"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4519
1¼"	1½"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4521
1½"	2"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4522
2"	2½"	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	D4523

Apollo Valves | CASH ACME OVERBUILT IS AN UNDERSTATEMENT.

Hot Water Relief Valves

- Pressure range: 75 to 150 psi
- Max. temp.: 250°F, except Nos. 2XLA7, 31LH29, and 49EL60 are 210°F


No. 2XLA7

Fully automatic valves reseat themselves after relieving pressure. Cast bronze construction with stainless steel springs, except No. 31LH30 has a brass body. MNPT x FNPT connections. For tankless or closed-loop hot water systems. ASME Section IV Certified, except, No. 49EL60 meets ANSI Z21.22 and is CSA 4.4 Certified.

Item	Inlet Size	Outlet Size	Factory Set Pressure	BtuH	Brand	Item No.
Pressure Only Relief Valve	¾"	¾"	150 psi	500,000	Cash Acme	2XLA7
Safety Relief Valve	¾"	¾"	30 psi	510,000	Cash Acme	31LH30
	¾"	¾"	125 psi	791,000	Apollo	3EEX8
	¾"	¾"	150 psi	500,000	Cash Acme	31LH29
	¾"	¾"	150 psi	934,000	Apollo	3EEX9
Temperature and Pressure Relief Valve	¾"	¾"	150 psi	500,000	Cash Acme	49EL60

Series 69 Relief Valves

Aquatrol VALVE COMPANY, INC.

- Max. temp.: 450°F


No. D4547

Field-adjustable pressure is factory set to midrange for minimal effect on flow capacity rates. Adjustment requires no disassembly; simply remove hex cap. Closed bonnet, sealed hex cap, and lapped metal seating eliminate leakage. Stainless steel springs. MNPT x FNPT connections. For pressure relief, liquid relief, continuous bypass, and overprotection for pumping stations, tanks, hydraulics, fluid, and pipelines.

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Bronze Disc and Bronze Seat			
½"	½"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4547
¾"	¾"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4548
1"	1"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4549
1¼"	1¼"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4551
1½"	1½"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4552
2"	2"	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	D4553

Preset Setting (psi)	Pressure Range
15	0 to 15 psi
30	16 to 30 psi
50	31 to 50 psi
75	51 to 75 psi
100	76 to 100 psi
125	101 to 125 psi
150	126 to 150 psi
200	151 to 200 psi
250	201 to 250 psi
300	251 to 300 psi

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
316 Stainless Steel Disc and 316 Stainless Steel Seat			
½"	½"	100, 150, 200, 250, 300, 400, 600	D4554
¾"	¾"	100, 150, 200, 250, 300, 400, 600	D4555
1"	1"	100, 150, 200, 250, 300, 400, 600	D4556
1¼"	1¼"	200, 250, 300, 400, 600, 100, 150	D4557
1½"	1½"	100, 150, 200, 250, 300, 400, 600	D4558
2"	2"	100, 150, 200, 250, 300, 400, 600	D4559

Preset Setting (psi)	Pressure Range
100	51 to 100 psi
150	101 to 150 psi
200	151 to 200 psi
250	201 to 250 psi
300	251 to 300 psi
400	301 to 400 psi
600	401 to 600 psi

WATTS REGULATOR | Aquatrol VALVE COMPANY, INC. | CASH ACME OVERBUILT IS AN UNDERSTATEMENT.


No. 5DLZ1

Calibrated Pressure and Vacuum Relief Valves

Calibrated pressure and vacuum relief have a brass body and stainless steel spring. Lead-free valves are certified for use in potable water applications. Liquid relief valves are bronze and have metal-to-metal seat.

CALIBRATED PRESSURE, SERIES 530

- Pressure range: 50 to 175 psi
- Temp. range: 0° to 180°F

Protect against excessive pressure buildup in systems that contain water, oil, or air. Use for bypass thermal relief. Buna N disc. Lead-free, except No. 2X318. NSF Listed and FDA Approved, except No. 2X318 meets ANSI Z21.22.

Note: Not to be used as an operating control.

LEAD-FREE VACUUM RELIEF, SERIES N36

- Max. pressure: 15 psi steam; 200 psi water
- Temp. range: 0° to 250°F

Automatically vents closed system to atmosphere. Prevents vacuum conditions that could siphon water from the system. Silicone disc. For water heaters, supply tanks, unit heaters, and low-pressure steam systems. NSF Listed and FDA Approved.

LEAD-FREE VACUUM RELIEF VALVE, CASH ACME

- Pressure range: 0 to 200 psi
- Temp. range: 0° to 210°F

Ideal for protecting pressure vessels and hot water supply systems against negative pressure. Silicone disc. Suitable for use in many commercial and domestic systems. Meets ANSI Z21.22 and is CSA 4.4 Certified.

LIQUID RELIEF, SERIES 55

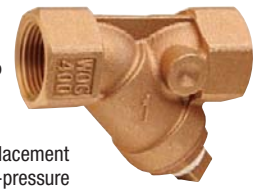
- Pressure range: 0 to 100 psi
- Temp. range: 0° to 450°F

Small valve can be adjusted in the field by removing the hex cap. Bronze disc is lapped into position to minimize leakage. For liquid relief lines, tanks, sprinkler systems, and overprotection.

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Watts Item No.	Cash Acme Item No.
Calibrated Pressure, Series 530					
¾"	½"	MNPT	FNPT	2X318	—
Lead-Free Calibrated Pressure, Series 530					
½"	½"	MNPT	FNPT	5DLZ1	—
¾"	½"	MNPT	FNPT	5DLZ2	—
Lead-Free Vacuum Relief, Series N36					
½"	½"	MNPT	MNPT	5DLZ3	—
Lead-Free Vacuum Relief Valve					
½"	½"	NPT	Vented	—	49EL63

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Factory Set Pressure	Aquatrol Item No.
Liquid Relief, Series 55					
¼"	½"	MNPT	FNPT	25 psi	3ERJ9
¼"	½"			50 psi	3ETU3
⅜"	½"			25 psi	3ERK1
⅜"	½"			50 psi	3ETU4

GA GRAINGER APPROVED | Mueller Steam Specialty | SSI


No. 6NPX0

Metal Y-Type Strainers—NPT Connection

Protect plumbing systems from dirt, rust, and debris. Stainless steel replacement screens are corrosion-resistant; suitable for high-temperature and high-pressure applications. ASTM A126 Class B (cast-iron); ASTM B584 (bronze); ASTM A216 GR. WCB, Class 600 (carbon steel); ASTM A351CF8M (cast stainless steel).

Note: Replacement screens available for bronze and ductile iron strainers; call 1-800-GRAINGER (472-4643).

Pipe Size	Item No.
GA, Bronze Housing, SS Screen	
300 psi @ 210°F, 125 psi @ 353°F	
2½"	6NPX5
3"	6NPX6
400 psi @ 210°F, 125 psi @ 353°F	
¼"	6NPW7
⅜"	6NPW8
½"	6NPW9
¾"	6NPX0
1"	6NPX1
1¼"	6NPX2
1½"	6NPX3
2"	6NPX4
GA, Cast Iron, Stainless Steel,PTFE Housing, SS Screen	
400 psi @ 150°F, 250 psi @ 406°F	
⅜"	20H622

Pipe Size	Item No.
½"	20H623
¾"	20H624
1"	20H625
1¼"	20H626
1½"	20H627
2"	20H628
2½"	20H629
3"	20H630
Mueller, Cast Carbon Steel Housing, 304 SS Screen	
1480 psi @ 100°F WOG, 1010 psi @ 750°F WSP	
¼"	1RND5
⅜"	1RND6
½"	1RND7
¾"	1RND8
1"	1RND9
1¼"	1RNE1
1½"	1RNE2
2"	1RNE3

Pipe Size	Item No.
Mueller, Cast Stainless Steel Housing, 304 SS Screen	
1440psi @ 100° F @ 38° Steam	
2"	1RNG4
1480 psi @ 100°F WOG, 1010 psi @ 750°F WSP	
¼"	1RNF6
⅜"	1RNF7
½"	1RNF8
¾"	1RNF9
1"	1RNG1
1¼"	1RNG2
1½"	1RNG3
SSI, Carbon Steel Housing, 304 SS Screen	
3500 psi @ 100°F	
¼"	3CFR7
¾"	3CFR8
1"	3CFR9
1¼"	5NLE9
1½"	3CFU4
2"	3CFU5

Size	For Use With	Item No.
GA, 20 Mesh Replacement Screen		
1"	6NPX1	6NPY0
GA, Replacement Screen		
¼"	20H621	20H631
¼" and ⅛"	6NPW6, 6NPW7	6NPX7
⅜"	20H622	20H632
½"	20H623	20H633
½" and ⅜"	6NPW8, 6NPW9	6NPX8
¾" x 2⁵⁄₃₂"	20H624	20H634
1"	20H625	20H635
1¼"	20H626	20H636
1¼"	6NPX2	6NPY1
1½"	20H627	20H637
1½"	6NPX3	6NPY2
2"	20H628	20H638
2"	6NPX4	6NPY3
2½", 1⁄16" Screen Size	20H629	20H639
2½"	6NPX5	6NPY4
3"	20H630	20H640
3"	6NPX6	6NPY5


No. 40D868

Apollo Valves | ZURN WILKINS

Lead-Free Bronze Y-Type Strainers

- Max. pressure: 400 psi CWP at 210°F, 125 psi SWP; except Zurn Wilkins models are 300 psi WOG

Large volume design helps protect your meters, regulators, solenoids, and valves from dirt, pipe scale, and rust. PTFE seal. The 304 stainless steel screen material resists corrosion, is removable, and self-aligning. Certified for use in potable water applications.

Pipe Size	Connec. Type	Apollo Item No.	Zurn Wilkins Item No.
¼"	FNPT x FNPT	40D866	—
⅜"	FNPT x FNPT	40D867	—
½"	FNPT x FNPT	40D868	22N582
¾"	FNPT x FNPT	40D869	22N583
¾"	MNPT x FNPT	40D876	—
1"	FNPT x FNPT	40D870	22N584
1"	MNPT x FNPT	40D877	—
1¼"	FNPT x FNPT	40D871	22N585
1½"	FNPT x FNPT	40D872	22N586
2"	FNPT x FNPT	40D873	22N587
2½"	FNPT x FNPT	40D874	22N588
3"	FNPT x FNPT	40D875	22N589

Metal Y-Type Strainers—Flanged Connection


No. 1RNH6

Use in water, oil, gas, and steam applications.

Note: Replacement screens available; call 1-800-GRAINGER (472-4643).

Mueller Steam Specialty™

Pipe Size	CAST IRON HOUSING: Class 125, Max. Press.: 200 psi @ 150°F WOG, 125 psi @ 450°F WSP Item No.	CAST IRON HOUSING: Class 125, Max. Press.: 500 psi @ 150°F WOG, 250 psi @ 450°F WSP Item No.	CAST IRON HOUSING: Class 250, Max. Press.: 500 psi @ 150°F WOG, 250 psi @ 450°F WSP Item No.	CAST CARBON STEEL HOUSING: Class 150, Max. Press.: 1480 psi @ 100°F WOG, 1010 psi @ 750°F WSP Item No.	CAST STAINLESS STEEL HOUSING: Class 150, Max. Press.: 285 psi @ 100°F WOG, 150 psi @ 565°F WSP Item No.	CAST STAINLESS STEEL HOUSING: Class 300, Max. Press.: 285 psi @ 100°F WOG, 150 psi @ 565°F WSP Item No.
2"	3NXK7	1RNH8	—	—	—	1RNH1
2½"	1RNH6	—	1RNH9	1RNF3	1RNG7	1RNH2
3"	1RNH7	—	1RNJ1	1RNF4	1RNG8	1RNH3
4"	1RNY2	—	1RNJ2	1RNF5	1RNG9	1RNH4
6"	—	—	1RNJ3	—	—	1RNH5

PVC and CPVC Y-Type Strainers


No. 3CEA4

HAYWARD +GF+

- Max. pressure: 150 psi at 70°F

Protect piping systems from debris, dirt, and rust. Hex cap permits easy removal of strainer screen for cleaning.

Mount vertically or horizontally. Clear PVC eases screen monitoring. FPM gaskets. Hayward models have 1/32" mesh, except 2½" to 4" are 1/8" mesh size. Georg Fischer models are #20 mesh.

Note: Replacement screens available; call 1-800-GRAINGER (472-4643).

Pipe Size	Hayward Clear PVC Housing, Socket Item No.	Hayward Clear PVC Housing, Threaded Item No.	Hayward CPVC Housing, Socket Item No.	Hayward CPVC Housing, Threaded Item No.	Hayward PVC Housing, Socket Item No.	Hayward PVC Housing, Threaded Item No.	Hayward PVC Housing, Threaded, True Union Item No.	Georg Fischer PVC Housing, Spigot Item No.
½"	3CEF7	3CEF5	3CEP9	3CER2	3CEA6	3CEA4	3CEN1	1CLR4
¾"	3CEG2	3CEF9	3CER4	3CER6	3CEC1	3CEA8	3CEN3	1CLR5
1"	3CEG6	3CEG4	3CER8	3CET1	3CEC5	3CEC3	3CEN5	1CLR6
1¼"	3CEH1	3CEG8	—	—	3CEC9	3CEC7	3CEN7	—
1½"	3CEH5	3CEH3	3CET3	3CET5	3CED4	3CED2	3CEN9	1CLR8
2"	3CEH9	3CEH7	3CET7	3CET9	3CED8	3CED6	3CEP2	1CLR9
2½"	—	—	—	—	3CEE4	3CEE2	3CEP4	—
3"	—	—	3CEU2	3CEU4	3CEE8	3CEE6	3CEP6	1CLT1
4"	—	—	3CEU6	3CEU8	3CEF3	3CEF1	3CEP8	—

Polypropylene Y-Type Strainers, Gaskets, and Screens


No. 3DTZ2

BANJO Liquid Handling Products

- Max. pressure: 150 psi

Protect piping systems from debris, dirt, and rust. Fiberglass-reinforced polypropylene strainers have a removable end cap and poly-ribbed 316 stainless steel screens. EPDM gaskets. FNPT connection.

Pipe Size	20 Mesh Item No.	30 Mesh Item No.	40 Mesh Item No.	50 Mesh Item No.	80 Mesh Item No.
Strainers					
½"	3DTZ2	—	3DTZ3	—	3DTZ4
¾"	3DTZ5	—	3DTZ6	—	3DTZ7
1"	3DTZ9	—	3DUA1	—	3DUA2
1¼"	3DUA5	—	3DUA6	—	3DUA7
1½"	—	3DUA9	—	3DUC1	3DUC2
2"	—	3DUC5	—	3DUC6	3DUC7

Size	For Use With	Item No.
Gaskets		
1/2 - 3/4"	3DTZ2, 3DTZ3, 3DTZ4, 3DTZ5, 3DTZ6, 3DTZ7	3DTZ8
1 - 1 1/4"	3DTZ9, 3DUA1, 3DUA2, 3DUA5, 3DUA6, 3DUA7	3DUA3
1 1/2 - 2"	Mfr. No. LS150-30, LS150-50, LS150-80, LS200-30, LS200-50, LS200-80	3DUC3

Type	For Use With Strainers	Item No.
Screens		
20 Mesh, For Y Strainer	Mfr. No. LS100-20, LS125-20	3DUA4
20 Mesh, For Y Strainer	Mfr. No. LS050-20, LS075-20	3DUE2
30 Mesh, For Y Strainer	Mfr. No. LS150-30, LS200-30	3DUC8
50 Mesh, For Y Strainer	Mfr. No. LS150-50, LS200-50	3DUC9
80 Mesh, For Y Strainer	Mfr. No. LS150-80, LS200-80	3DUE1

In-Line Strainer Housings and Screens

amiad filtration systems

- Max. pressure: 150 psi
- Max. temp.: 140°F
- Filter screens sold separately

Top and bottom O-rings eliminate fluid bypass; ensure complete fluid filtration. High-pressure, noncorrosive body. Minimal pressure drop. No. 2P802 does not have a flush valve.


No. 2P801

Pipe Size	Flow Rate	Housing Material	Mfr. Model	Item No.
Y Strainer				
¾"	13 gpm	Acetal	010000-000010	2P801
¾"	13 gpm	Polypropylene	010000-000012	2P802
1"	30 gpm	Acetal	010002-000004	2P803
1½"	60 gpm	Polyacetal	010004-000001	1PHP4
T-Line Strainer				
2"	110 gpm	Polyamid/Glass Fibers	010006-000021	1PHP5

Dia.	For Use With	POLYESTER HOUSING: Black, Mesh 200 Item No.	POLYESTER HOUSING: Yellow, Mesh 155 Item No.	STAINLESS STEEL HOUSING: Black, Mesh 200 Item No.	STAINLESS STEEL HOUSING: Blue, Mesh 50 Item No.	STAINLESS STEEL HOUSING: Red, Mesh 120 Item No.	STAINLESS STEEL HOUSING: Yellow, Mesh 155 Item No.
Filter Screen							
¾"	Mfr. No. 1-0701-1151-0000	—	—	1PHP6	—	—	—
	Mfr. No. 1-0701-1151-0000	—	2P806	—	—	—	—
1¼"	2P802	—	2P809	—	—	—	—
	2P801	—	—	—	—	—	1PHP7
2"	Mfr. No. 1-1201-1151-0000	2P811	—	1PHP8	—	—	1PHP9
	Mfr. No. 1-1601-1151-0000	—	—	—	1PHR3	—	1PHR1
	1PHP4	—	—	—	—	1PHR2	—
	2P803	—	2P812	—	—	—	—
4"	Mfr. No. 1-2221-2151-0000	—	—	—	1PHR6	—	1PHR4
	1PHP5	—	—	—	—	1PHR5	—

Mueller Steam Specialty™

SSI

Metal Basket Strainers


No. 1RNK1


No. 1RNL1

Can reduce service time in applications needing frequent maintenance and large-capacity straining such as in water cooling, seawater, and hot water applications. Cover and basket O-ring seals eliminate particle bypass and reduce the need for gasket replacement. SSI brand meets ASME B1.20.1, except Nos. 3EJK1 to 3EJK4 meet ASME B16.5.

Note: 304 stainless steel replacement baskets available; call 1-800-GRAINGER (472-4643).

Pipe Size	L	Mueller, Cast-Iron Housing, 200 psi @ 150°F, Buna-N Gasket Item No.	L	Mueller, Stainless Steel Housing, 200 psi @ 150°F, Viton Gasket Item No.	L	SSI, Stainless Steel Housing, 285 psi @ 100°F, 304 Stainless Steel Gasket Item No.
Flanged						
2"	9"	3NXF5	9"	3NXG2	15¾"	3EJK1
2½"	10"	3NXF6	—	—	—	—
	7⁹⁄₁₆"	1RNK7	10"	3NXG3	17½"	3EJK2
3"	8¾"	1RNK8	11"	3NXG4	20¾"	3EJK3
	11"	3NXF7	—	—	—	—
4"	11³⁄₁₆"	1RNK9	15"	3NXG5	27¾"	3EJK4
	15"	3NXF8	—	—	—	—
5"	—	—	18"	3NXG6	—	—
6"	20"	3NXG1	20"	3NXG7	—	—

Pipe Size	L	Mueller, Cast-Iron Housing, 200 psi @ 150°F, Buna-N Gasket Item No.	Mueller, Cast Stainless Steel Housing, 275 psi @ 100°F, Buna-N Gasket Item No.	Mueller, Cast Stainless Steel Housing, 275 psi @ 100°F, Viton Gasket Item No.	SSI, Carbon Steel Housing, 700 psi @ 100°F, 304 Stainless Steel Gasket Item No.	SSI, Stainless Steel Housing, 700 psi @ 100°F, 304 Stainless Steel Gasket Item No.
FNPT x FNPT						
½"	4⁹⁄₁₆"	1RNK1	1RNL1	—	—	—
½"	9½"	—	—	—	3EJH3	—
¾"	4⁹⁄₁₆"	1RNK2	1RNL2	—	—	—
1"	5⁵⁄₁₆"	1RNK3	1RNL3	—	—	—
1¼"	6⁵⁄₁₆"	1RNK4	1RNL4	—	—	—
1½"	6⁵⁄₁₆"	1RNK5	—	1RNL5	—	—
1½"	19³⁄₁₆"	—	—	—	3EJH6	3EJJ2
2"	8¼"	1RNK6	1RNL6	—	—	—
2"	19¹³⁄₁₆"	—	—	—	3EJH7	3EJJ3

Mueller Steam Specialty™

Metal Duplex Basket Strainers

- Screen size: 1/16"

Divert flow from 1 basket to another for easy in-line cleaning or changeout; no need to disassemble or remove the strainer. Include two 316 stainless steel perforated baskets. Typically used in cooling water, compressor, condenser, chemical processing, and pump station service.

Note: Replacement baskets available; call 1-800-GRAINGER (472-4643).



Flanged Stainless Steel
No. 3NXJ6

Pipe Size	Flanged Cast-Iron Housing, Class 125, 200 psi @ 150°F Item No.	Flanged Stainless Steel Housing, Class 150, 275 psi @ 100°F Item No.	Threaded Cast-Iron Housing, Class 125, 175 psi @ 150°F Item No.	Threaded Stainless Steel Housing, Class 150, 275 psi @ 100°F Item No.
¾"	—	—	—	3NXJ1
1"	—	—	—	3NXJ2
1¼"	3NXH2	—	3NXG8	3NXJ3
1½"	3NXH3	3NXJ6	3NXG9	3NXJ4
2"	3NXH4	—	3NXH1	3NXJ5

HAYWARD

Thermoplastic DB Series Duplex Basket Strainers



No. 3CDU3

- Max. pressure: 150 psi

Divert flow from 1 strainer housing to the other with the simple turn of a handle; can remain online and in-service for basket cleaning. Help reduce downtime. True union piping, socket/threaded connection. FPM seals are standard.

Pipe Size	CPVC Housing Item No.	PVC Housing Item No.
Basket Strainer		
½"	3CDV2	3CDU3
¾"	3CDV4	3CDU5
1"	3CDV6	3CDU7
1¼"	3CDV8	—
1½"	3CDW1	—
2"	3CDW3	3CDU9

Mesh	Screen Area	CPVC Screen Item No.	PVC Screen Item No.
Replacement Basket			
1/32"	37.03"	3CDW9	3CDW5
1/8"	86.44"	3CDX2	3CDW7

Thermoplastic Basket Strainers

HAYWARD

- Max. pressure: 150 psi (PVC); 100 psi (Eastar®)

Help remove particulates as process media flows through the perforated strainer basket, and are ideal for corrosive and sensitive media. Provide broad coverage of process chemicals in applications where the line can be shut down for basket cleaning.

Pipe Size	PVC Housing, Socket, EPDM Gasket Item No.	PVC Housing, Socket/ Threaded, EPDM Gasket Item No.	PVC Housing, Threaded, EPDM Gasket Item No.
Simplex Strainer			
½"	—	15V995	—
¾"	—	15V996	—
1"	—	15V997	—
1¼"	—	15V998	—
1½"	—	15V999	—
2"	—	15W001	—
2½"	15W003	—	15W002
3"	15W005	—	15W004
4"	15W008	—	15W007

Pipe Size	PVC Housing, Socket/ Threaded Item No.	PVC Housing, Socket/ Threaded, FPM Gasket Item No.	PVC Housing, Socket, FPM Gasket Item No.	PVC Housing, Threaded, FPM Gasket Item No.	Eastar® Housing, Socket/Threaded, EPDM Gasket Item No.
Basket Strainer					
½"	3CDT7	—	—	—	—
¾"	—	3CDT8	—	—	3CDZ3
1"	—	3CDT9	—	—	3CDZ5
1¼"	—	3CDU1	—	—	3CDZ7
1½"	—	3CEU9	—	—	3CDZ9
2"	—	3CDU2	—	—	3CEA2
2½"	—	—	3CDU6	3CDU4	—
3"	—	—	3CDV1	3CDU8	—
4"	—	—	3CDV5	3CDV3	—



No. 3CDU2

No. 3CEA2

Size	PVC Item No.	CPVC Item No.
Replacement Basket		
½ to 1"	38W312	38W314
	38W313	38W315
1¼ to 2"	38W316	38W318
	38W317	38W319
2½ to 4"	38W320	38W323
	38W321	38W324
	38W322	38W325

GA GRAINGER APPROVED

Nylon In-Line Strainers

- Max. pressure: 100 psi at 125°F
- Max. fluid temp.: 125°F

For use as drinking water prefilters and in agricultural sprayers, floor scrubbers, pressure washers, medical devices, and car wash applications. Included 304 micron stainless steel filter screens can be easily cleaned or replaced by removing the bowl; no need to remove the entire strainer from the line.

Pipe Size	Connec. Type	Gasket Material	H	L	Clear Bowl Item No.	White Bowl Item No.
Low Profile T-Line Strainers						
¼"	FNPT	EPDM	2 7/16"	3"	—	6UJK2
	MNPT	EPDM	2 7/16"	3"	6UJH7	—
	MNPT	Viton	2 7/16"	3"	6UJK5	—
⅜"	FNPT	EPDM	2 7/16"	3"	—	6UJK1
	MNPT	EPDM	2 7/16"	3"	—	6UJH9
	MNPT	Viton	2 7/16"	3"	6UJK6	—
½"	FNPT	EPDM	2 7/16"	3"	—	6UJK3
	MNPT	EPDM	2 7/16"	3"	—	6UJJ1
	MNPT	Viton	2 7/16"	3"	6UJK7	—
1½"	FNPT	EPDM	8"	5"	—	6UJK4
T-Line Strainers						
¼"	FNPT	EPDM	2 7/16"	3"	6UJH8	—
⅜"	FNPT	EPDM	2 7/16"	3"	6UJJ0	—
½"	FNPT	EPDM	2 7/16"	3"	6UJJ2	—
	FNPT	Viton	5 3/16"	3 3/16"	6UJL2	6UJK8
¾"	FNPT	Viton	5 3/16"	3 3/16"	—	6UJK9
¾" FNPT	FNPT	Viton	5 3/16"	3 3/16"	6UJL3	—
1"	FNPT	Viton	6 7/16"	5"	6UJL4	6UJL0
1¼"	FNPT	EPDM	7 1/8"	5"	6UJJ3	—
	FNPT	Viton	7 1/8"	5"	—	6UJL1
1½"	FNPT	EPDM	8"	5"	6UJJ4	—

For Use With	Mesh	Dia.	Item No.
Filter Screens			
Grainger SKU's 6UJK8, 6UJL2, 6UJK9, 6UJL3	40	1½"	6UJJ7
Grainger SKU's 6UJK3, 6UJJ2, 6UJJ2, 6UJJ1, 6UJK7, 6UJK2, 6UJK2, 6UJH8, 6UJK7, 6UJK5, 6UJK1, 6UJJ0, 6UJK9, 6UJK6	50	15/16"	6UJJ5
Grainger SKU's 6UJK8, 6UJL2, 6UJK9, 6UJL3	50	1½"	6UJJ6
Grainger SKU's 6UJL0, 6UJL4	50	2¼"	6UJJ8
Grainger SKU's 6UJJ3, 6UJL1	50	2¼"	6UJJ9
Grainger SKU's 6UJJ4, 6UJK4	50	2¼"	6UJK0



No. 6UJJ4



No. 6UJJ6

Polypropylene T-Line Strainers

BANJO Liquid Handling Products

- Max. pressure: 150 psi at 70°F (black bowl); 100 psi at 70°F (clear bowl)

Heavy-duty, glass-reinforced polypropylene strainers resist most mineral acids, salt solutions, and solvents. All come with 316 stainless steel screens and EPDM gaskets. FKM (Viton®-type) gaskets are also available; call 1-800-GRAINGER (472-4643). Standard strainers include clean-out plug.

Pipe Size	H	Max. Pressure	Bowl Color	Mesh 30 Item No.	Mesh 50 Item No.	Mesh 80 Item No.
T-Line Strainer						
¾"	8 1/16"	150 at 70°F	Black	3DTW9	—	—
		150 psi @ 70°F	Black	—	3DTX1	3DTX2
1"		150 psi @ 70°F	Black	3DTX3	3DTX4	3DTX5
1¼"	11 7/16"	150 psi @ 70°F	Black	3DTX7	3DTX8	3DTX9
1½"		150 psi @ 70°F	Black	3DTY3	3DTY4	3DTY5

Pipe Size	H	Max. Pressure	Bowl Color	Mesh 30 Item No.	Mesh 50 Item No.	Mesh 80 Item No.
Mini T-Line Strainer						
½"	4 3/16"	100 psi @ 70°F	Clear	3ELW6	3ELW7	3ELW8
		150 psi @ 70°F	Black	3DUE5	3DUE6	3DUE7
¾"		100 psi @ 70°F	Black	—	—	3DUF2
		100 psi @ 70°F	Clear	3ELW9	3ELX1	—
		150 psi @ 70°F	Black	3DUE9	3DUF1	3ELX2

For Use With	Size	Item No.
T-Line Replacement Screens		
Mfr. No. LST075-30, LST100-30	¾ - 1"	3DTY1
Mfr. No. LST075-50, LST100-50	¾ - 1"	3DTY2
Mfr. No. LST075-80, LST100-80	¾ - 1"	3DTZ1
Mfr. No. LST125-30, LST150-30	1¼ - 1½"	3DTY7
Mfr. No. LST125-50, LST150-50	1¼ - 1½"	3DTY8
Mfr. No. LST125-80, LST150-80	1¼ - 1½"	3DTY9

For Use With	Size	Item No.
Mini T-Line Replacement Screens		
Mfr. No. LSTM050-30, LSTM075-30	½ - ¾"	3DUF3
Mfr. No. LSTM050-50, LSTM075-50	½ - ¾"	3DUF4
Mfr. No. LSTM050-80, LSTM075-80	½ - ¾"	3DUF5

For Use With	Size	Item No.
T-Line Replacement Gaskets		
Mfr. No. LST075-30, LST075-50, LST075-80, LST100-30, LST100-50, LST100-80	¾ - 1"	3DTX6
Mfr. No. LST125-30, LST125-50, LST125-80, LST150-30, LST150-50, LST150-80	1¼ - 1½"	3DTY6

For Use With	Size	Item No.
Mini T-Line Replacement Gasket		
Mfr. No. LSTM050-30, LSTM050-50, LSTM050-80, LSTM075-30, LSTM075-50, LSTM075-80	½ - ¾"	3DUE8



No. 3ELW7



No. 3DUF3

GRAINGER APPROVED

MILWAUKEE VALVE



FNPT No. 6VDT3

Brass and Lead-Free Brass Swing Check Valves

- Max. pressure: 200 psi CWP nonshock

Allow flow in 1 direction and prevent fluid backflow. Brass seals and seats, except Nos. 6VDT3 to 6VDT8 have PTFE seals. For use in plumbing and heating applications. Multipositional models meet NSF/ANSI 372.

Note: For use only with fluids compatible with the valve materials of construction; not for use with reciprocating air compressor service.

Size	L	Connec. Type	Max. Temp.	Cracking Pressure	Item No.
GA, Horizontal					
½"	2⅛"	FNPT	194°F	0.725 psi	**6VDT3**
¾"	2¼"	FNPT	194°F	0.725 psi	**6VDT4**
1"	2 11/16"	FNPT	194°F	0.725 psi	**6VDT5**
1¼"	3"	FNPT	194°F	0.725 psi	**6VDT6**
1½"	3¼"	FNPT	194°F	0.725 psi	**6VDT7**
2"	3 13/16"	FNPT	194°F	0.725 psi	**6VDT8**
GA, Vertical or Horizontal					
½"	2 1/16"	FNPT	180°F	0.75 a 1 psi	**10F322**
¾"	2⅜"	FNPT	180°F	0.75 a 1 psi	**10F323**
1"	2 27/32"	FNPT	180°F	0.75 to 1 psi	**10F324**
1¼"	3 3/32"	FNPT	180°F	0.75 to 1 psi	**10F325**
1½"	3¾"	FNPT	180°F	0.75 to 1 psi	**10F326**
2"	4 7/32"	FNPT	180°F	0.75 a 1 psi	**10F327**
½"	2 7/16"	Solder	180°F	0.75 to 1 psi	**10F328**
¾"	3¼"	Solder	180°F	0.75 to 1 psi	**10F329**
1"	3⅝"	Solder	180°F	0.75 to 1 psi	**10F330**
1½"	4 23/32"	Solder	180°F	0.75 to 1 psi	**10F332**
2"	5½"	Solder	180°F	0.75 to 1 psi	**10F333**

Size	L	Connec. Type	Max. Temp.	Cracking Pressure	Item No.
Milwaukee Valve, Lead-Free, Multi Positional					
½"	2 17/32"	Solder	156°F	0.11 psi	**12K652**
¾"	3⅛"	Solder	157°F	0.12 psi	**12K653**
1"	3 29/32"	Solder	158°F	0.13 psi	**12K654**
1¼"	4 1/16"	Solder	159°F	0.14 psi	**12K655**
1½"	5"	Solder	160°F	0.15 psi	**12K656**
2"	6⅛"	Solder	161°F	0.16 psi	**12K657**
½"	2⅛"	Threaded	150°F	0.5 psi	**12K646**
¾"	2 5/16"	Threaded	151°F	0.6 psi	**12K647**
1"	2¾"	Threaded	152°F	0.7 psi	**12K648**
1¼"	3⅛"	Threaded	153°F	0.8 psi	**12K649**
1½"	3½"	Threaded	154°F	0.9 psi	**12K650**
2"	4 9/32"	Threaded	155°F	0.10 psi	**12K651**



FNPT No. 10F295



FNPT No. 1JLZ6

Bronze and Lead-Free Bronze Swing Check Valves

GRAINGER APPROVED

MILWAUKEE VALVE

- Max. temp.: 406°F, except Lead-Free models are 200°F

Allow flow in 1 direction to prevent backflow. Bronze seats. Mount vertical or horizontal. Use in plumbing and heating applications. Meet ASTM B62 and MSS-SP-80, except Lead-Free models meet NSF/ANSI 372.

Note: Not for use with reciprocating air compressor service.

Size	GA Class 125 Bronze Disc FNPT L	GA Class 125 Bronze Disc FNPT Item No.	GA Class 125 Bronze Disc Solder L	GA Class 125 Bronze Disc Solder Item No.	Milwaukee Valve Class 125 Bronze Disc FNPT L	Milwaukee Valve Class 125 Bronze Disc FNPT Item No.	Milwaukee Valve Class 125 Bronze Disc Solder L	Milwaukee Valve Class 125 Bronze Disc Solder Item No.
¼"	2 1/16"	**10F288**	—	—	2 1/16"	**1JLY6**	—	—
⅜"	2 1/16"	**10F289**	—	—	2 1/16"	**1JLY7**	2¼"	**4EVH2**
½"	2⅛"	**10F290**	—	—	2 5/16"	**1JLY8**	2 9/16"	**4EVH3**
¾"	2 17/32"	**10F291**	—	—	2⅝"	**1JLY9**	3 5/16"	**4EVH4**
1"	3 5/32"	**10F292**	—	—	3¼"	**1JLZ1**	4"	**4EVH5**
1¼"	3⅜"	**10F293**	—	—	3 9/16"	**1JLZ2**	4¼"	**4EVH6**
1½"	3 13/16"	**10F294**	4⅝"	**10F318**	4"	**1JLZ3**	4 15/16"	**4EVH7**
2"	4½"	**10F295**	—	—	4¾"	**1JLZ4**	6⅛"	**4EVH8**
2½"	5 11/16"	**10F296**	—	—	6"	**1JLZ5**	7⅜"	**4EVH9**
3"	6 7/16"	**10F297**	7⅛"	**10F321**	6⅞"	**1JLZ6**	8½"	**4EVJ1**

Size	GA Class 150 PTFE Disc FNPT L	GA Class 150 PTFE Disc FNPT Item No.	GA Class 150 PTFE Disc Solder L	GA Class 150 PTFE Disc Solder Item No.	Milwaukee Valve Class 150 Bronze Disc FNPT L	Milwaukee Valve Class 150 Bronze Disc FNPT Item No.	Milwaukee Valve Class 150 PTFE Disc FNPT L	Milwaukee Valve Class 150 PTFE Disc FNPT Item No.
¼"	2 1/16"	**10F298**	—	—	2 1/16"	**4EVJ2**	2 1/16"	**1JLZ7**
⅜"	—	—	—	—	2 1/16"	**4EVJ3**	2 1/16"	**1JLZ8**
½"	2⅛"	**10F301**	2 1/16"	**10F307**	2 5/16"	**4EVJ4**	2 5/16"	**1JLZ9**
¾"	2 17/32"	**10F302**	—	—	2⅝"	**4EVJ5**	2⅝"	**1JML1**
1"	3 5/32"	**10F303**	—	—	3¼"	**4EVJ6**	3¼"	**1JML2**
1¼"	3⅜"	**10F304**	—	—	3 9/16"	**4EVJ7**	3 9/16"	**1JML3**
1½"	3 13/16"	**10F305**	4⅝"	**10F311**	4"	**4EVJ8**	4"	**1JML4**
2"	4½"	**10F306**	—	—	4¾"	**4EVJ9**	4¾"	**1JML5**

CLASS 125 BRONZE DISC

- Max. pressure: 125 psi SWP, 200 psi nonshock CWP, except Nos. 4EVH2 to 4EVJ1 are 125 psi SWP, 200 psi CWP
- Cracking pressure: 0.75 psi to 1 psi, except Nos. 4EVH2 to 4EVJ1 are 0.50 to 0.75 psi

CLASS 150 PTFE DISC

- Max. pressure: 150 psi SWP, 300 psi nonshock CWP; cracking pressure: 0.75 psi to 1 psi

CLASS 150 BRONZE DISC

- Max. pressure: 150 psi SWP, 300 psi CWP; cracking pressure: 0.5 psi to 0.75 psi

LEAD-FREE BRONZE, CLASS 300

- Max. pressure: 300 psi nonshock CWP; cracking pressure: 0.75 to 1 psi

Certified for use in potable water applications. Meet ANSI and NSF 372.

Size	Milwaukee Valve FNPT L	Milwaukee Valve FNPT Item No.	Milwaukee Valve Sweat L	Milwaukee Valve Sweat Item No.
Lead-Free Bronze, Class 300				
¼"	2⅛"	**5EMX0**	—	—
⅜"	2⅛"	**5EMX1**	2¼"	**5EMX8**
½"	2 5/16"	**5EMX2**	2 9/16"	**5EMX9**
¾"	2⅝"	**5EMX3**	3 5/16"	**5EMY0**
1"	3¼"	**5EMX4**	4"	**5EMY1**
1¼"	3 9/16"	**5EMX5**	4¼"	**5EMY2**
1½"	4"	**5EMX6**	5"	**5EMY3**
2"	4¾"	**5EMX7**	6⅛"	**5EMY4**

MILWAUKEE VALVE



FNPT No. 4EVG1

Bronze Y-Pattern Swing Check Valves

Y-pattern design permits easy maintenance. Feature a bronze body and disc and metal-to-metal seating. Mount vertical or horizontal. For use in plumbing and heating applications. Meet MSS SP-80.

Note: Not for use with reciprocating air compressor service.

CLASS 125

- Max. pressure: 125 psi steam; 200 psi CWP
- Temp. range: -20° to 406°F

CLASS 150

- Max. pressure: 150 psi steam; 300 psi nonshock CWP
- Max. temp.: 406°F

Meet ASTM B62.

CLASS 200

- Max. pressure: 200 psi (steam); 400 psi CWP
- Max. temp.: 550°F

CLASS 300

- Max. pressure: 300 psi steam; 600 psi CWP
- Max temp.: 550°F

Size	Class 125, FNPT Cracking Press.: 0.5 psi L	Class 125, FNPT Cracking Press.: 0.5 psi Item No.	Class 150, FNPT Cracking Press.: 0.5 psi L	Class 150, FNPT Cracking Press.: 0.5 psi Item No.	Class 150, Solder Cracking Press.: 0.5 psi L	Class 150, Solder Cracking Press.: 0.5 psi Item No.	Class 200, FNPT Cracking Press.: ½ to ¾ psi L	Class 200, FNPT Cracking Press.: ½ to ¾ psi Item No.	Class 300, FNPT Cracking Press.: 0.75 to 1 psi L	Class 300, FNPT Cracking Press.: 0.75 to 1 psi Item No.
¼"	2¼"	**13N438**	2¼"	**13N448**	—	—	2¼"	**4EVG1**	2¼"	**1JLX5**
⅜"	2¼"	**13N439**	2¼"	**13N449**	—	—	2¼"	**4EVG2**	2¼"	**1JLX6**
½"	2⅝"	**13N440**	2⅝"	**13N450**	3"	**13N432**	2⅝"	**4EVG3**	2⅝"	**1JLX7**
¾"	3"	**13N441**	3"	**13N451**	3¼"	**13N433**	3"	**4EVG4**	3"	**1JLX8**
1"	3 11/16"	**13N442**	3 11/16"	**13N452**	4¼"	**13N434**	3 11/16"	**4EVG5**	3 11/16"	**1JLX9**
1¼"	4⅜"	**13N443**	4⅜"	**13N453**	5"	**13N435**	4⅜"	**4EVG6**	4⅜"	**1JLY1**
1½"	4⅝"	**13N444**	4⅝"	**13N454**	5½"	**13N436**	4⅝"	**4EVG7**	4⅝"	**1JLY2**
2"	5⅛"	**13N445**	5⅛"	**13N455**	6⅜"	**13N437**	5⅛"	**4EVG8**	5⅛"	**1JLY3**
2½"	7"	**13N446**	—	—	—	—	7"	**4EVG9**	7"	**1JLY4**
3"	7⅞"	**13N447**	—	—	—	—	7⅞"	**4EVH1**	7⅞"	**1JLY5**

MILWAUKEE VALVE

Newco

CAMERON



Cast-Iron No. 1JNL3

Flanged-End Swing Check Valves

Allow flow in only 1 direction to prevent backflow; Mount horizontally, except cast-iron models mount vertically or horizontally.

Note: Not for use for reciprocating air compressor service.

Cast-Iron—Bronze seats and disc. Meet MSS-SP-71 and ASTM B16.1.

Cast-Steel—Cobalt/chrome seats. Meet API 600 and ASME B16.34.

Carbon Steel—Feature 300 Class flange and hand-faced seal ring. Ideal for gas, oil, steam, and water applications. Meet ASME B16.10, B16.34 and API 600.

Size	L	Milwaukee Valve Cast Iron, Max. Temp.: 350°F Cracking Press.: 0.75 to 1 psi Max. Steam Pressure	Water Pressure	Item No.	Milwaukee Valve Cast Steel, Max. Temp.: 1000°F @ 20 psi Cracking Press.: 0.75 to 1 psi Max. Water Pressure	Item No.
2"	8"	125 psi WSP	200 psi	**1JNL3**	285 psi @ 100°F	**4EVK1**
2½"	8½"	125 psi WSP	200 psi	**1JNL4**	285 psi @ 100°F	**4EVK2**
3"	9½"	125 psi WSP	200 psi	**1JNL5**	285 psi @ 100°F	**4EVK3**
4"	11½"	125 psi WSP	200 psi	**1JNL6**	285 psi @ 100°F	**4EVK4**
5"	13"	125 psi WSP	200 psi	**1JNL7**	—	—
6"	14"	125 psi WSP	200 psi	**1JNL8**	285 psi @ 100°F	**4EVK5**
8"	19½"	—	—	—	285 psi @ 100°F	**4EVK6**

Size	Cracking Pressure	L	Cameron Newco Carbon Steel, Max. Temp.: 750°F Item No.
2"	0.082 psi	4⅝"	**33Z833**
3"	0.062 psi	5⅛"	**33Z834**
4"	0.068 psi	5⅜"	**33Z835**
6"	0.057 psi	6⅜"	**33Z836**
8"	0.061 psi	12"	**33Z837**
10"	0.058 psi	24½"	**33Z838**
12"	0.065 psi	28"	**33Z839**

GA GRAINGER APPROVED

316 Stainless Steel Swing Check Valves

- Max. pressure: 200 psi
- Max. temp.: 353°F

Provide excellent corrosion and chemical resistance. Horizontal mounting. For use in plumbing and heating applications.



NPT
No. 4VMT7

Size	Cracking Pressure	L	NPT Item No.	Socket Weld Item No.
¼"	4.27 psi	2 9/16"	4VMT7	—
⅜"		2 9/16"	4VMT8	4VMU9
½"		2 9/16"	4VMT9	—
¾"		3 5/32"	4VMU1	—
1"		3 1/2"	4VMU2	—
1 ¼"		4 1/8"	4VMU3	—
1 ½"	5.6 psi	4 23/32"	4VMU4	4VMV5
2"		5 15/32"	4VMU5	4VMV6
2 ½"		7 1/8"	—	4VMV7
3"		7 1/8"	4VMU7	—



Piston
No. 4DHV8

GA GRAINGER APPROVED

Compact Spring Check Valves

- Max. temp.: 250°F (Buna); 375°F (Viton®)
- Cracking pressure: 1 psi

Install in tight spaces to provide backflow protection for a variety of applications. First connection listed is the direction of flow. Piston design provides a positive seal at very low back pressure or slight vacuum.

Size	L	Connec. Type	Brass Body, Brass Seat: Buna Seals Item No.	Brass Body, Brass Seat: Viton® Seals Item No.	Stainless Steel Body, Stainless Steel Seat: Buna Seals Item No.	Stainless Steel Body, Stainless Steel Seat: Viton® Seals Item No.
Piston, Max. Pressure 500 psi						
1/8"	1 1/16"	FNPT x MNPT	4DHR5	4DHR6	4DHT4	4DHT5 *
	1 1/16"	FNPT x MNPT	—	—	—	4DHT7 *
	1 1/16"	MNPT x FNPT	4DHR7	4DHR8	4DHT6	—
	1 3/16"	MNPT	—	—	4DHT2	4DHT3
	1 3/16"	MNPT x MNPT	—	4DHR4	—	—
	1 3/8"	FNPT	4DHR9	4DHT1	4DHT8	4DHT9
1/4"	1/2"	MNPT	4DHU1	—	4DHU9	4DHV1
	1 3/8"	FNPT x MNPT	4DHU3	4DHU4	4DHV2	4DHV3
	1 1/2"	MNPT	—	4DHU2	—	—
	1 5/8"	MNPT x FNPT	4DHU5	4DHU6	4DHV4	4DHV5
	1 25/32"	FNPT	4DHU7	4DHU8	4DHV6	4DHV7
3/8"	1 11/16"	FNPT x MNPT	4DHW1	4DHW2	—	—
	1 11/16"	MNPT	4DHV8	4DHV9	—	—
	1 11/16"	MNPT x FNPT	4DHW3	4DHW4	—	—
	2 1/4"	FNPT	4DHW5	4DHW6	4DHW7	4DHW8
1/2"	1 7/8"	FNPT x MNPT	4DHX2	4DHX3	—	—
	1 7/8"	MNPT x FNPT	4DHX4	4DHX5	—	—
	2"	MNPT	4DHW9	4DHX1	—	—
	2 17/32"	FNPT	4DHX6	4DHX7	—	—
Poppet, Max. Pressure 500 psi						
1/8"	1 3/16"	MNPT	4DHR3	—	—	—
Poppet, Max. Pressure 1200 psi						
¼"	½"	FNPT	4DHP6	4DHP7	—	—
⅜"	1 3/4"	FNPT	4DHP8	4DHP9	—	—
½"	1 7/8"	FNPT	4DHR1	4DHR2	—	—

** Cap to Inset Center is 3 18/32" for No. 4DHT5, 4 20/32" for 4DHT7.*

No. 46CE62

BONOMI
NORTH AMERICA, INC.

316 Stainless Steel Check Valves

- Max. pressure: 125 psi SWP
- Cracking pressure: 0.5 psi
- Max. temp.: 450°F

Valves allow flow in only 1 direction to prevent backflow, while the spring-actuated design allows fast seating action. FNPT connections. Dual guided stem and disc plus a soft PTFE seal for a bubble-tight shutoff. The 316 stainless steel body and spring are corrosion resistant and suitable for use with chemicals. Valves can be mounted vertically or horizontally.

Size	L	Item No.
¼"	2 9/16"	46CE62
⅜"	2 9/16"	46CE63
½"	2 9/16"	46CE64
¾"	2 7/8"	46CE65
1"	3 1/2"	46CE66
1 ¼"	4 3/16"	46CE67
1 ½"	4 15/16"	46CE68
2"	6"	46CE69

Bronze and Lead-Free Bronze Spring Check Valves

GA GRAINGER APPROVED

MILWAUKEE VALVE

Spring-actuated valves open and close by liquid flow and allow flow in only 1 direction to prevent backflow. Bronze body. Can be mounted vertically or horizontally.

Note: Check valves are not for use with reciprocating air compressor service.

GA

- Max. pressure: 200 psi CWP
- Max. temp.: 250°F

When mounted vertically, valves must be positioned for flow up only.



No. 6AJY1

MILWAUKEE VALVE

- Max. pressure: 250 psi non-shock CWP
- Max. temp.: 353°F

Silent closing design to reduce water hammer. Certified for use in potable water applications.

Note: Find more Milwaukee Valve items at Grainger.com®; search for "Milwaukee bronze swing check valves".



No. 5EMZ2

Size	GA, NPT: Cracking Pressure	GA, NPT: L	GA, NPT: Item No.	GA, Solder: Cracking Pressure	GA, Solder: L	GA, Solder: Item No.	Milwaukee, Lead-Free Threaded: Cracking Pressure	Milwaukee, Lead-Free Threaded: L	Milwaukee, Lead-Free Threaded: Item No.	Milwaukee, Lead-Free Solder: Cracking Pressure	Milwaukee, Lead-Free Solder: L	Milwaukee, Lead-Free Solder: Item No.
⅜"	—	—	—	—	—	—	0.75 to 1 psi	1 7/32"	5EMY5	0.75 to 1 psi	1 1/32"	5EMZ2
½"	1.7 psi	2 13/32"	6AJY1	1.7 psi	2 27/32"	6AJY7	0.75 to 1 psi	1 7/32"	5EMY6	0.75 to 1 psi	1 1/32"	5EMZ3
¾"	3.5 psi	2 3/4"	6AJY2	3.5 psi	3 1/32"	6AJY8	0.75 a 1 psi	½"	5EMY7	0.75 to 1 psi	½"	5EMZ4
1"	3.5 psi	3 1/4"	6AJY3	3.5 psi	4 3/32"	6AJY9	0.75 a 1 psi	1 29/32"	5EMY8	0.75 to 1 psi	1 29/32"	5EMZ5
1 ¼"	3.5 psi	3 9/16"	6AJY4	3.5 psi	4 31/32"	6AJZ0	0.75 to 1 psi	2 5/32"	5EMY9	0.75 to 1 psi	2 5/32"	5EMZ6
1 ½"	4.3 psi	4"	6AJY5	4.3 psi	4 15/16"	6AJZ1	0.75 to 1 psi	2 19/32"	5EMZ0	0.75 to 1 psi	2 19/32"	5EMZ7
2"	4.3 psi	5"	6AJY6	4.3 psi	6 1/16"	6AJZ2	0.75 to 1 psi	3 1/8"	5EMZ1	0.75 to 1 psi	3 1/8"	5EMZ8

GA GRAINGER APPROVED

Forged Steel Piston Spring-Loaded Check Valves



No. 1PPL2

- Max. temp.: 850°F
- Max. pressure: 1975 psi CWP

Class 800 valves feature a bolted cap and are intended for higher-pressure applications. Carbon steel body and bonnet, with 304 stainless steel spring. Vertical or horizontal mount. Ideal for use with pumps and in metering, blending, and steam trap applications. Meet ASTM A105, NACE MR-0175, API 598, and API 602.

Size	Cracking Pressure	L	FNPT Item No.	Socket Item No.
½"	8 psi	3 1/8"	1PPL2	1PPL8
¾"	8 psi	3 19/32"	1PPL3	1PPL9
1"	10 psi	4 3/8"	1PPL4	1PPN1
1 ¼"	24 psi	4 23/32"	1PPL5	1PPN2
1 ½"	24 psi	6"	1PPL6	1PPN3
2"	43 psi	6 25/32"	1PPL7	1PPN4

Apollo Valves

Bronze, Lead-Free Bronze, and 316 SS Cone® Spring Check Valves

- Max. pressure: 125 psi steam, 400 psig CWP
- Cracking pressure: ½ psi

Straight-through design assures minimum change in velocity and protects against reverse flow. Stainless steel springs. Reinforced RPTFE ball check. Nos. 40D878 to 40D885 have RPTFE seat, Nos. 40D886 to 40D888 have EPDM seat. All models mount vertically or horizontally. FNPT connections. Lead-Free check valves are certified NSF/ANSI 372 and certified for use in potable water applications.

Note: Not recommended for use with reciprocating pumps and similar applications that may induce repetitious vibrations.



Bronze
No. 1CKT5



Lead-Free Bronze, Inline-Bubble Tight
No. 40D886

Size	Bronze, Max. Temp.: 406 °F: L	Bronze, Max. Temp.: 406 °F: Item No.	Lead-Free Bronze, Max. Temp.: 250 °F: L	Lead-Free Bronze, Max. Temp.: 250 °F: Item No.	Lead-Free Bronze, Max. Temp.: 350 °F: L	Lead-Free Bronze, Max. Temp.: 350 °F: Item No.	Stainless Steel, Max. Temp.: 350°F: L	Stainless Steel, Max. Temp.: 350°F: Item No.
¼"	2 1/16"	1CKT5	—	—	2 1/16"	40D878	2 1/16"	1CKU6
⅜"	2 1/8"	1CKT6	2 5/16"	40D886	2 1/8"	40D879	2 1/8"	1CKU7
½"	2 5/16"	1CKT7	2 5/16"	40D887	2 5/16"	40D880	2 5/16"	1CKU8
¾"	2 7/8"	1CKT8	2 7/8"	40D888	2 7/8"	40D881	2 7/8"	1CKU9
1"	3 1/2"	1CKT9	—	—	3 1/2"	40D882	3 1/2"	1CKV1
1 ¼"	4 3/16"	1CKU1	—	—	4 3/16"	40D883	4 3/16"	1CKV2
1 ½"	4 15/16"	1CKU2	—	—	4 15/16"	40D884	4 15/16"	1CKV3
2"	6"	1CKU3	—	—	6"	40D885	6"	1CKV4
2 ½"	7"	1CKU4	—	—	—	—	—	—
3"	8 1/8"	1CKU5	—	—	—	—	—	—



BONOMI
NORTH AMERICA, INC.

No. 45RF27

Brass and Lead-Free Brass Check Valves

- Temp. range: 10° to 210°F, except Nos. 45RF38 to 45RF43 are 10° to 270°F
- Max pressure: 400 psi CWP, except Nos. 45RF51 to 45RF53 are 175 psi CWP
- Cracking pressure: 0.5 psi

Feature a soft seat for a bubble tight shutoff and spring loaded for fast seating action. Valves have a flow pattern to minimize head loss and an innovative disc design to help prevent side loading.

Size	Connec. Type	Brass Item No. L	Brass Item No.	Lead-Free Brass Item No. L	Lead-Free Brass Item No.
¼"	NPT	—	—	1 47/64"	45RF27
⅜"	NPT	1 47/64"	45RF44	1 47/64"	45RF28
½"	NPT	2 1/4"	45RF45	2 1/4"	45RF29
½"	Sweat	—	—	2 39/64"	45RF38
¾"	NPT	2 1/2"	45RF46	2 1/2"	45RF30
¾"	Sweat	—	—	3"	45RF39
1"	NPT	2 55/64"	45RF47	2 55/64"	45RF31
1"	Sweat	—	—	3 1/2"	45RF40
1 1/4"	NPT	3 9/64"	45RF48	3 9/64"	45RF32
1 1/4"	Sweat	—	—	4"	45RF41
1 1/2"	NPT	3 5/16"	45RF49	3 5/16"	45RF33
1 1/2"	Sweat	—	—	4 1/2"	45RF42
2"	NPT	3 5/8"	45RF50	3 5/8"	45RF34
2"	Sweat	—	—	4 13/16"	45RF43
2 1/2"	NPT	4 3/8"	45RF51	4 3/8"	45RF35
3"	NPT	4 7/8"	45RF52	4 7/8"	45RF36
4"	NPT	5 27/64"	45RF53	5 27/64"	45RF37



PVC
No. 5AAT4



Polypropylene
No. 5AAX6

+GF+
HAYWARD

PVC, CPVC, and Polypropylene Ball Check Valves

- Max. pressure: 150 psi, except Nos. 33Z876 to 33Z886 are 240 psi
- Max. temp.: 140°F PVC; 190°F CPVC, except Nos. 33Z882 to 33Z886 are 210°F; 150°F polypropylene

True union design allows for easy removal. Vertical mount, except Nos. 33Z876 to 33Z886 are vertical or horizontal mount. Meet NSF 61, except Nos. 33Z876 to 33Z886.

Size	L	PVC Item No.	CPVC Item No.
Hayward, Flanged, Viton Seats and Seals			
1"	7¾"	—	5AAU7
2"	11¼"	—	5AAV1
3"	14⅜"	5AAR3	5AAV6
4"	17"	5AAR6	5AAV9
6"	19 3/16"	5AAR7	5AAW0
Hayward, FNPT, EPDM Seats and Seals			
2½"	10 1/16"	5AAT6	5AAW8
3"	10½"	5AAT8	5AAX0
4"	13"	5AAU1	5AAX3
Hayward, FNPT, Viton Seats and Seals			
¼"	3 1/16"	5AAP1	—
⅜"	3 1/16"	5AAP2	—
2½"	10 1/16"	5AAR0	5AAV3
3"	10½"	5AAR2	5AAV5
4"	13"	5AAR5	5AAV8
Hayward, SKT, EPDM Seats and Seals			
2½"	10 1/16"	5AAT5	5AAW7
3"	10½"	5AAT7	5AAW9
4"	13"	5AAU0	5AAX2

Size	L	PVC Item No.	CPVC Item No.
Hayward, SKT, Viton Seats and Seals			
2½"	10 1/16"	5AAP9	5AAV2
3"	10½"	5AAR1	5AAV4
4"	13"	5AAR4	5AAV7
Hayward, SKT/FNPT, EPDM Seats and Seals			
½"	4⅝"	5AAR8	5AAW1
¾"	4¾"	5AAR9	5AAW2
1"	5¼"	5AAT0	5AAW3
1¼"	6 9/32"	5AAT1	5AAW4
1½"	6¾"	5AAT3	5AAW5
2"	8"	5AAT4	5AAW6
Hayward, SKT/FNPT, Viton Seats and Seals			
½"	4⅝"	5AAP3	5AAU4
¾"	4¾"	5AAP4	5AAU5
1"	5¼"	5AAP5	5AAU6
1¼"	6 9/32"	5AAP6	5AAU8
1½"	6¾"	5AAP7	5AAU9
2"	8"	5AAP8	5AAV0

Size	L	PVC Item No.	CPVC and EPDM Item No.	CPVC Item No.
Georg Fischer, Socket/Threaded, EPDM Seats and Seals				
⅜"	4⅛"	33Z876	33Z882	—
½"	4⅛"	33Z877	33Z883	—
¾"	4 49/64"	33Z878	33Z884	—
1"	5 15/64"	33Z879	33Z885	—
1 1/2"	6 15/32"	33Z880	—	—
2"	7 13/64"	33Z881	33Z886	—
Hayward, Flanged, EPDM Seats and Seals				
3"	14⅜"	5AAT9	—	5AAX1
4"	17"	5AAU2	—	5AAX4
6"	19 3/16"	5AAU3	—	5AAX5

Size	L	Polypropylene Item No.
Hayward, FNPT, Viton Seats and Seals		
½"	4⅝"	5AAX6
¾"	4¾"	5AAX7
1"	5¼"	5AAX8
1 1/2"	6¾"	5AAX9
2"	8"	5AAY0



Glass-Filled Polypropylene
No. 4DJC4

GA GRAINGER APPROVED

Plastic Check Valves

- Max. pressure: 125 psi
- Max. temp. 140°F

Feature good chemical resistance and have stainless steel ball and spring. Mount vertical or horizontal. Glass-filled polypropylene valves require 0.33 psi cracking pressure. Gray PVC, polypropylene, and white nylon require 1 psi cracking pressure.

Size	Connec. Type	L	Buna Seal Item No.	Viton® Seal Item No.
Glass-Filled Polypropylene Seat				
¼"	FNPT	1"	4DJC4	4DJC5
⅜"	FNPT	2"	4DJC6	4DJC7
½"	FNPT	2½"	4DJC8	4DJC9
¾"	FNPT	2½"	4DJD1	4DJD2
Gray PVC Seat				
⅛"	FNPT	2 29/32"	4DHZ2	4DHZ3
¼"	Barb	3 17/32"	4DJA3	4DJA4
¼"	FNPT	2 29/32"	4DJA1	4DJA2
¼"	FPT x MPT	2 29/32"	4DHZ8	—
¼"	MNPT	2 29/32"	4DHZ4	4DHZ5
¼"	MNPT x FNPT	2 29/32"	4DHZ6	4DHZ9
¼"	Push	3 7/16"	4DJA9	4DJC1
⅜"	Barb	3 17/32"	4DJA5	4DJA6
⅜"	Push	3 7/16"	4DJC2	4DJC3
½"	Barb	3 17/32"	4DJA7	4DJA8
Polypropylene Seat				
⅛"	Barb	1⅜"	4DHX8	4DHX9
3/16"	Barb	1 23/32"	4DHY1	4DHY2
¼"	Barb	2"	4DHY3	4DHY4
White Nylon Seat				
⅛"	Barb	1⅜"	—	4DHY6
⅛"	Barb	2"	4DHY5	—
3/16"	Barb	1 23/32"	4DHY7	4DHY8
¼"	Barb	2"	4DHY9	4DHZ1



Triple-Duty
No. 1RXE3

SSI

Mueller Steam Specialty™

Heavy-Duty Check Valves

- Max. pressure: 200 psi

TRIPLE-DUTY

- Max. temp.: 212°F

With spring-loaded silent check valve, balancing valve, and shut-off valve. Center-guided Buna N seal disc ensures leak-free performance. For pump protection and HVAC chilled water installations. Meet ASME B16.1.

SILENT

- Max. temp.: 300°F

ASME Class 125 wafer-style valves prevent flow reversal; eliminate water hammer and system surges. EPDM seal and O-ring. Vertical or horizontal mount. For liquid service use in HVAC, power, process, chemical, and waste industries.

SURE CHECK™

- Max. temp.: 100°F

Class 125 valves prevent surge and water hammer due to flow reversal; specially designed springs close discs before flow reversal can occur. With stainless steel springs and Buna N seal. Mount vertically or horizontally. Designed to fit ANSI flanges. Suitable for liquid and gas service applications. Meet ANSI and FM Approved.

SPRING-LOADED/DUAL-DOOR

- Max. temp.: 250°F (cast iron); 600°F (stainless steel)

Wafer-style ASME Class 125 and Class 150 flanged valves fit between flat-face and raised-face flanges; reduce water hammer, surge, and backflow in piping systems. Cast-iron models have bronze or stainless steel disc and stainless steel spring. 316 stainless steel models have stainless steel disc and spring. For use in liquid and air service in industrial process, wastewater, and pulp and paper industries. Cast-iron are FM Approved; stainless meet API 594.

Size	SSI, Triple-Duty, Cast Iron, Buna N Seat Item No.	SSI, Silent, Cast Iron, Bronze Seat Item No.	SSI, Silent, Cast Iron, Stainless Steel Seat Item No.	Mueller Sure Check™, Cast Iron, Buna Seat Item No.	SSI, Spring Loaded/ Dual Door, Cast Iron, Buna N Seat Item No.	SSI, Spring Loaded/ Dual Door, Stainless Steel Seat Item No.
2"	1RXE3	1RXF4	1RXG2	1RNP1	1RXJ7	1RXK6
2½"	—	1RXF5	1RXG3	1RNP2	1RXJ8	1RXK7
3"	1RXE5	1RXF6	1RXG4	1RNP3	1RXJ9	1RXK8
4"	—	1RXF7	1RXG5	1RNP4	1RXK1	1RXK9
5"	1RXE7	—	—	1RNP5	1RXK2	—
6"	1RXE8	1RXF9	1RXG7	1RNP6	1RXK3	1RXL2
8"	1RXE9	1RXG1	1RXG8	1RNP7	1RXK4	1RXL3


No. 30YT87


No. 30YT95


No. 30YT83

Armstrong

Condensate Coolers, T-Line Strainers, and Float Type Air Vents

CONDENSATE COOLERS

- Max. pressure: 150 psig
- Max. temp.: 180°F

Use to mix hot water or hot condensate with a cold water supply to help reduce the temperature to an acceptable level. Can cool to a preset temperature of 135°F, or field set to a desired temperature. Suitable for most plumbing systems.

T-LINE STRAINERS

- Max. pressure: 400 psi
- Max. fluid temp.: 500°F

Feature a larger open screen area and can trap particles that harm valves and other sensitive equipment in your steam or refrigeration systems. Corrosion-resistant stainless steel.

FLOAT TYPE AIR VENTS

Free-floating air/gas vents provide positive venting of air/gases under pressure. Corrosion-resistant, stainless steel vents feature a positive-closing lever to help ensure a leaktight closing. Body and caps are welded together to form a permanently sealed, gasketless, and tamperproof unit.

Cold Water Inlet	Vent Outlet	Condensate Inlet	Condensate Outlet	Item No.
Condensate Coolers				
⅜"	¾"	¾"	1¼"	**30YT83**
¾"	1½"	1½"	1½"	**30YT84**

Pipe Size	H	L	Item No.
T-Line Strainers			
½"	5⅞"	4"	**30YT85**
¾"	6 1⁄16"	4"	**30YT86**

Inlet	Outlet	W (in.)	H (in.)	Max. Temp. (°F)	Max. Working Pressure (psi)	Item No.
Float Type Air Vents						
Cast Iron						
½"	¼"	3¾	5½	200°	146	**30YT87**
				200°	173	**30YT88**
				200°	219	**30YT89**
				200°	300	**30YT90**
¾"				200°	146	**30YT91**
				200°	173	**30YT92**
				200°	219	**30YT93**
				200°	300	**30YT94**
Stainless Steel						
½"	½"	2¾	7¼	500°	178	**30YT95**
				500°	267	**30YT96**
				500°	400	**30YT97**
				500°	178	**30YT98**
¾"				500°	267	**30YT99**
				500°	400	**30YU01**


No. 36Y304


No. 405Z02


No. 405Z10

Armstrong

MEPCO
MARSHALL ENGINEERED PRODUCTS CO.

Thermostatic Steam Traps

Design allows trap to be inspected and serviced without breaking pipe connections. Armstrong® models have one moving part, while Mepco® models feature an innovative floating valve design and rounded seat to help prevent corrosive elements and dirt from affecting trap operation. All models respond quickly to changing pressure and condensate loads and are suitable for use in many steam heating systems and steam process equipment.

(F)NPT Connections	Pipe Config.	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
304L Stainless Steel							
½"	Horizontal or Vertical	400	1300	650°F	—	Armstrong	**36Y304**
¾"	Horizontal or Vertical	400	1300	650°F	—	Armstrong	**36Y305**
Brass							
½"	Angle	25	1270	345°F	3¼"	Mepco	**405Z02**
	Straight	25	1270	345°F	4⅛"	Mepco	**405Z03**
½" x ¾"	Vertical	25	1270	345°F	5⅛"	Mepco	**405Z04**
½"	Angle	125	1200	345°F	3⅛"	Mepco	**405Z07**
¾"	Angle	25	2450	345°F	3¼"	Mepco	**405Z05**
	Straight	25	2450	345°F	5⅛"	Mepco	**405Z06**
	Angle	125	1800	345°F	3¼"	Mepco	**405Z08**
1"	Angle	125	2500	345°F	3½"	Mepco	**405Z09**

(F)NPT Connections	Pipe Config.	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
Bronze							
½"	In the Side, Out the Bottom	50	1700	400°F	2 9⁄16"	Armstrong	**36Y299**
	In the Side Out the Side, Straight Pattern	50	1700	300°F	4"	Armstrong	**36Y302**
¾"	In the Side Out the Bottom	50	1700	400°F	2⅞"	Armstrong	**36Y301**
	In The Side Out The Side, Straight Pattern	50	1700	300°F	4½"	Armstrong	**36Y303**
Cast Iron							
¾"	(2) Pipe, (1) Inlet and (1) Outlet	15	2175	450°F	4⅞"	Mepco	**405Z10**
1"	(2) Pipe, (1) Inlet and (1) Outlet	15	2175	450°F	4⅞"	Mepco	**405Z11**
1¼"	(2) Pipe, (1) Inlet and (1) Outlet	15	2700	450°F	5⅜"	Mepco	**405Z12**
1½"	(2) Pipe, (1) Inlet and (1) Outlet	15	4075	450°F	5⅜"	Mepco	**405Z13**
2"	(2) Pipe, (1) Inlet and (1) Outlet	15	11,750	450°F	7"	Mepco	**405Z14**



Cast Iron
No. 405Y56



Stainless Steel
No. 405Y95



Cast Iron, with Integral Strainer
No. 36Y223

Steam Traps

Inverted bucket steam traps feature a free-floating valve mechanism with no fixed pivots to wear out. They are low maintenance and designed to handle dirty steam for reliable service and long life.

Mepco—Disc steam trap allows easy maintenance, inspection, and a 1-pc. thermodynamic cartridge can be replaced without removing the trap from the line. Durable and can withstand the effects of superheat, vibration, water hammer, and corrosive environments.

Float and Thermostatic steam traps are not affected by wide or sudden pressure changes, respond quickly to condensate load changes, and can function under high back pressure conditions.

Armstrong—Inverted bucket steam traps feature an innovative leverage system that multiplies the force provided by the bucket to open the valve against system pressure. Design can provide reliable operation and efficient condensate drainage on most types of steam equipment.

(F)NPT Connec.	NPT Inlet	NPT Outlet	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.	
Cast Iron									
Disc									
½"	½"	½"	600	1200	800°F	2 11/16"	Mepco	**405Y80**	
Float and Thermostatic									
½"	½"	½"	15	1129	450°F	5"	Mepco	**405Y71**	
		½"	30	1439	450°F	5"	Mepco	**405Y74**	
		½"	75	1523	450°F	5"	Mepco	**405Y77**	
¾"	¾"	11/32"	15	1129	450°F	5"	Mepco	**405Y72**	
		¾"	15	2175	450°F	4⅞"	Mepco	**405Y56**	
		¾"	30	1439	450°F	5"	Mepco	**405Y75**	
		¾"	30	2300	450°F	4⅞"	Mepco	**405Y61**	
		¾"	75	1523	450°F	5"	Mepco	**405Y78**	
		¾"	75	1650	450°F	4⅞"	Mepco	**405Y66**	
		¾"	75	1650	450°F	4⅞"	Mepco	**405Y87**	
		¾"	125	1650	450°F	4⅞"	Mepco	**405Y91**	
1"	1"	1"	15	1129	450°F	5"	Mepco	**405Y73**	
		1"	15	2175	450°F	4⅞"	Mepco	**405Y57**	
		1"	30	1439	450°F	5"	Mepco	**405Y76**	
		1"	30	2300	450°F	4⅞"	Mepco	**405Y62**	
		1"	75	1500	450°F	5"	Mepco	**405Y79**	
		1"	75	1650	450°F	4⅞"	Mepco	**405Y67**	
		1"	75	1650	450°F	4⅞"	Mepco	**405Y88**	
		1"	125	1650	450°F	4⅞"	Mepco	**405Y92**	
1¼"	1¼"	1¼"	15	2700	450°F	5⅜"	Mepco	**405Y58**	
		1¼"	30	3000	450°F	5½"	Mepco	**405Y63**	
		1¼"	75	2400	450°F	5⅜"	Mepco	**405Y68**	
1½"	1½"	½"	75	2700	450°F	4⅞"	Mepco	**405Y89**	
		½"	125	2500	450°F	5⅜"	Mepco	**405Y93**	
		½"	30	4300	450°F	5⅜"	Mepco	**405Y64**	
		½"	75	2700	450°F	5⅜"	Mepco	**405Y69**	
2"	2"	2"	30	12,500	450°F	7"	Mepco	**405Y86**	
		2"	30	12,500	450°F	8½"	Mepco	**405Y65**	
		2"	75	5000	450°F	7"	Mepco	**405Y70**	
		2"	75	5000	450°F	7"	Mepco	**405Y90**	
		2"	125	4500	450°F	7"	Mepco	**405Y94**	
Inverted Bucket									
½"	½"	½"	80	690	450°F	5"	Mepco	**405Y22**	
		½"	150	572	450°F	5"	Mepco	**405Y23**	
		½"	250	765	450°F	5"	Mepco	**405Y28**	
		¾"	30	1000	450°F	5"	Mepco	**405Y26**	
		¾"	125	955	450°F	5"	Mepco	**405Y27**	
¾"	¾"	½"	30	1000	450°F	5"	Mepco	**405Y29**	
		½"	80	690	450°F	5"	Mepco	**405Y24**	
		½"	125	955	450°F	5"	Mepco	**405Y30**	
		½"	150	572	450°F	5"	Mepco	**405Y25**	
		¾"	250	765	450°F	5"	Mepco	**405Y31**	
		¾"	250	3500	450°F	7¾"	Mepco	**405Y37**	
		1"	30	4000	450°F	7¾"	Mepco	**405Y35**	
		1"	125	3925	450°F	7¾"	Mepco	**405Y36**	
1"	1"	¾"	30	1000	450°F	5"	Mepco	**405Y32**	
		¾"	30	4000	450°F	7¾"	Mepco	**405Y38**	
		¾"	125	955	450°F	5"	Mepco	**405Y33**	
		1"	125	3925	450°F	7¾"	Mepco	**405Y39**	
		1"	250	765	450°F	5"	Mepco	**405Y34**	
		1"	250	3500	450°F	7¾"	Mepco	**405Y40**	
1¼"	1¼"	1"	30	6810	450°F	9"	Mepco	**405Y41**	
		1¼"	30	9825	450°F	10¼"	Mepco	**405Y44**	
		1¼"	125	6710	450°F	9"	Mepco	**405Y42**	
		1¼"	125	10,910	450°F	10¼"	Mepco	**405Y45**	
		1¼"	250	5725	450°F	9"	Mepco	**405Y43**	
		1¼"	250	7000	450°F	10¼"	Mepco	**405Y46**	
1½"	1½"	1½"	30	9825	450°F	10¼"	Mepco	**405Y47**	
		1½"	125	10,910	450°F	10¼"	Mepco	**405Y48**	
		1½"	250	7000	450°F	10¼"	Mepco	**405Y49**	
2"	2"	2"	30	9825	450°F	10¼"	Mepco	**405Y50**	
		2"	125	10,910	450°F	10¼"	Mepco	**405Y51**	
		2"	250	7000	450°F	10¼"	Mepco	**405Y52**	
2½"	2½"	2½"	40	1800	450°F	13"	Mepco	**405Y53**	
		2½"	125	20,000	450°F	13"	Mepco	**405Y54**	
		2½"	250	19,000	450°F	13"	Mepco	**405Y55**	
Stainless Steel									
Disc									
½"	½"	½"	600	1200	800°F	2 11/16"	Mepco	**405Y95**	
		½"	600	1200	800°F	2 11/16"	Mepco	**405Y98**	*
		½"	600	2820	800°F	2 11/16"	Mepco	**405Y83**	
¾"	¾"	¾"	600	1830	800°F	2 13/16"	Mepco	**405Y81**	
		¾"	600	1830	800°F	2 13/16"	Mepco	**405Y84**	
		¾"	600	1830	800°F	2 13/16"	Mepco	**405Y96**	
		¾"	600	1830	800°F	2 13/16"	Mepco	**405Y99**	
1"	1"	1"	600	2820	800°F	3 5/16"	Mepco	**405Y82**	
		1"	600	2820	800°F	3 5/16"	Mepco	**405Y85**	
		1"	600	2820	800°F	3 5/16"	Mepco	**405Y97**	
		1"	600	2820	800°F	3 5/16"	Mepco	**405Z01**	*

** Includes strainers.*

(F)NPT Connec.	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
Cast Iron						
Inverted Bucket						
½"	30	1000	400°F	5"	Armstrong	**36Y192**
	80	700	450°F	5"	Armstrong	**36Y188**
	125	950	400°F	5"	Armstrong	**36Y193**
	150	600	400°F	5"	Armstrong	**36Y189**
	250	750	400°F	5"	Armstrong	**36Y194**
¾"	30	1000	450°F	5"	Armstrong	**36Y195**
	30	4000	400°F	7¾"	Armstrong	**36Y202**
	80	700	400°F	5"	Armstrong	**36Y190**
	125	950	400°F	5"	Armstrong	**36Y196**
	125	4000	400°F	7¾"	Armstrong	**36Y203**
	150	600	400°F	5"	Armstrong	**36Y191**
	250	750	400°F	5"	Armstrong	**36Y197**
	250	3800	400°F	7¾"	Armstrong	**36Y204**
1"	30	1000	400°F	5"	Armstrong	**36Y198**
	30	4000	400°F	7¾"	Armstrong	**36Y205**
	30	9900	400°F	10¼"	Armstrong	**36Y211**
	125	950	400°F	5"	Armstrong	**36Y199**
	125	4000	450°F	7¾"	Armstrong	**36Y206**
	130	11,000	400°F	10¼"	Armstrong	**36Y212**
	250	750	400°F	5"	Armstrong	**36Y201**
	250	3800	400°F	7¾"	Armstrong	**36Y207**
	250	7000	400°F	10¼"	Armstrong	**36Y213**
1¼"	30	7000	400°F	8"	Armstrong	**36Y208**
	125	6900	450°F	8"	Armstrong	**36Y209**
	250	5900	400°F	8"	Armstrong	**36Y210**
1½"	30	9900	400°F	10¼"	Armstrong	**36Y214**
	130	11,000	450°F	10¼"	Armstrong	**36Y215**
	250	7000	450°F	10¼"	Armstrong	**36Y216**
2"	30	9900	400°F	10¼"	Armstrong	**36Y217**
	130	11,000	400°F	10¼"	Armstrong	**36Y218**
	250	7000	400°F	10¼"	Armstrong	**36Y219**
2½"	40	20,000	400°F	13"	Armstrong	**36Y220**
	125	20,000	400°F	13"	Armstrong	**36Y221**
	250	19,000	400°F	13"	Armstrong	**36Y222**
Cast Iron, with Integral Strainer						
Inverted Bucket						
½"	30	1000	450°F	5"	Armstrong	**36Y223**
	30	2000	450°F	3⅞"	Armstrong	**36Y232**
	125	950	450°F	5"	Armstrong	**36Y224**
	125	2000	450°F	3⅞"	Armstrong	**36Y233**
	250	750	450°F	5"	Armstrong	**36Y225**
	250	1300	450°F	3⅞"	Armstrong	**36Y234**
¾"	30	1000	450°F	5"	Armstrong	**36Y226**
	30	4000	450°F	7⅞"	Armstrong	**36Y235**
	125	950	450°F	5"	Armstrong	**36Y227**
	125	4000	450°F	7⅞"	Armstrong	**36Y236**
	250	750	450°F	5"	Armstrong	**36Y228**
	250	3500	450°F	7⅞"	Armstrong	**36Y237**
1"	30	1000	450°F	5"	Armstrong	**36Y229**
	30	4000	450°F	7⅞"	Armstrong	**36Y238**
	125	950	450°F	5"	Armstrong	**36Y230**
	125	4000	450°F	7⅞"	Armstrong	**36Y239**
	250	750	450°F	5"	Armstrong	**36Y231**
	250	3500	450°F	7⅞"	Armstrong	**36Y240**
1¼"	30	4000	450°F	7⅞"	Armstrong	**36Y241**
	125	4000	450°F	7⅞"	Armstrong	**36Y242**
	250	3500	450°F	7⅞"	Armstrong	**36Y243**

STEAM SYSTEM UPGRADE Projects

The Grainger Energy Services Team is your resource to help with auditing, specifying, supplying, installing and commissioning/verifying energy-efficient steam system projects.

> Visit **grainger.com/energyservices**

(F)NPT Connections	Max. Operating (psi)	Condensate Cap. lb./hr.	End to End Length	Max. Temp.	Item No.
Same Side					
½"	15 psi	1200	3⅞"	353° @ 125 psig	**36Y244**
	30 psi	1400	3⅞"	353° @ 125 psig	**36Y250**
¾"	15 psi	1200	3⅞"	353° @ 125 psig	**36Y245**
	30 psi	1400	3⅞"	353° @ 125 psig	**36Y251**
	75 psi	1800	5⅛"	377° @ 175 psig	**36Y256**
	175 psi	1150	5⅛"	377° @ 175 psig	**36Y261**
1"	15 psi	2100	4⅛"	377° @ 175 psig	**36Y246**
	30 psi	2300	4⅛"	377° @ 175 psig	**36Y252**
	75 psi	1800	5⅛"	377° @ 175 psig	**36Y257**
	175 psi	1150	5⅛"	377° @ 175 psig	**36Y262**
1¼"	15 psi	2500	4⅝"	377° @ 175 psig	**36Y247**
	30 psi	2800	4⅝"	377° @ 175 psig	**36Y253**
	75 psi	2500	5 13⁄16"	377° @ 175 psig	**36Y258**
	175 psi	2000	5 13⁄16"	377° @ 175 psig	**36Y263**
1½"	15 psi	3100	5¾"	377° @ 175 psig	**36Y248**
	30 psi	4000	5¾"	377° @ 175 psig	**36Y254**
	75 psi	3100	7 1⁄16"	377° @ 175 psig	**36Y259**
	175 psi	3100	7 1⁄16"	377° @ 175 psig	**36Y264**
2"	15 psi	9000	7⅜"	377° @ 175 psig	**36Y249**
	15 psi	34,000	6⅝"	650° @ 300 psig	**36Y278**
	30 psi	8500	7⅜"	377° @ 175 psig	**36Y255**
	75 psi	7500	9¾"	377° @ 175 psig	**36Y260**
	75 psi	22,000	6⅝"	650° @ 300 psig	**36Y279**
	125	21,000	6⅝"	650° @ 300 psig	**36Y280**
	175 psi	7100	9¾"	377° @ 175 psig	**36Y265**
	300 psi	13,000	6⅝"	650° @ 300 psig	**36Y281**
In-Line					
½"	15 psi	1200	5½"	353° @ 125 psig	**36Y266**
	30 psi	2100	5½"	353° @ 125 psig	**36Y269**
	75 psi	1800	5½"	377° @ 175 psig	**36Y272**
	175 psi	1100	5½"	377° @ 175 psig	**36Y275**
¾"	15 psi	1200	5½"	353° @ 125 psig	**36Y267**
	30 psi	1200	5½"	353° @ 125 psig	**36Y270**
	75 psi	1800	5½"	377° @ 175 psig	**36Y273**
	175 psi	1100	5½"	377° @ 175 psig	**36Y276**
1"	15 psi	2100	5½"	353° @ 125 psig or 377° @ 175 psig	**36Y268**
	30 psi	2300	5½"	353° @ 125 psig or 377° @ 175 psig	**36Y271**
	75 psi	1800	5½"	377° @ 175 psig	**36Y274**
	175 psi	1100	5½"	377° @ 175 psig	**36Y277**



Horizontal Same Side No. 36Y244



Horizontal In-Line No. 36Y266

Armstrong®

Cast-Iron and Ductile Iron Float and Thermostatic Steam Traps

- Cast-iron body, except Nos. 36Y278 to 36Y281 are ductile iron

Feature stainless steel internals for long life in applications where continuous drainage with high air-venting capacity is required. Horizontal Same Side models feature inlet connections on both sides of the body to provide flexibility in piping.

Note: Steam traps are not for use in systems where excessive hydraulic or thermal shock are present.

Apollo® Valves | WATTS REGULATOR

Carbonated Beverage Backflow Preventers

- Max. pressure: 150 psi
- Max. temp.: 130°F, except No. 5AJ86 is 110°F

Dual check design and can install flow-up, flow-down, or horizontally.

PPO (POLYPHENYLENE OXIDE)

Install permanently on water supply line to protect against copper poisoning in carbonated beverage dispensing lines. Flare connection. Certified for use in potable water applications. Meet ASSE 1022 and NSF 372.

316 STAINLESS STEEL

For use on post-mix carbonated beverage equipment and dispensing equipment for tea and coffee. SAE male flare connection. Certified to ANSI/NSF 18, Manual Food and Beverage Dispensing Equipment; all rubber compounds comply with FDA food additive regulations.

No. 5AJ86

Dual check valve meets ASSE 1032.

No. 5AJ88

Atmospheric port provides visual indication of the failure of the second check. Wye pattern strainer model for water supply installations. Dual check valve with atmospheric vent meets ASSE 1022.



No. 6KK22



No. 5AJ86

Size	L	Apollo PPO Item No.	Watts Stainless Steel Item No.
¼"	3½"	**6KK21**	—
⅜"	3"	—	**5AJ86**
⅜"	3¾"	**6KK22**	—
⅜"	4½"	—	**5AJ88**

Hose and Laboratory Connection Vacuum Breakers

WATTS REGULATOR | Apollo® Valves | GA GRAINGER APPROVED | ZURN WILKINS

Prevent backsiphonage of contaminated water into water supply. No need for plumbing changes. Suitable for hot or cold water service. Single-check design. No. 5DMJ5 is certified for use in potable water applications. Nos. 6KK08 and 6KK09 have 2 independently acting soft-seated checks. Nos. 6AJZ3, 6KK08, and 6KK09 come with a break-off attachment screw for permanent installation. All models meet ASSE; except No. 5DMJ5 meets CSA only; Nos. 6AJZ3, 6A766, 6LL80, and 6LL79 also meet ANSI; Nos. 6KK08, 6KK09, 6A766, 22N566 and 22N567 also meet IAMPO; Nos. 6A766, 6LL80, and 6LL79 also meet UPC; Nos. 6KK08, 6KK09, 6A766, 6LL80, and 6LL79 also meet CSA.

Size	Material of Construc.	Max. Pressure	Connec. Type	Temp. Range	Brand	Mfr. Model	Item No.
Dual Check Vacuum Breaker							
⅜"	Chrome	125 psi	FIP	33° to 140°F	Watts	⅜ LF N9C - ⅜"	**5DMJ5**
Lab Faucet Vacuum Breaker							
⅜"	Chrome-Plated Brass	150 psi	FNPT	180°F	Apollo	3850202	**6KK09**
	Chrome-Plated Brass	150 psi	MNPSM	180°F	Apollo	3850201	**6KK08**
Vacuum Breaker							
¾"	Brass	125 psi	FIP x GHT	180°F	GA	108-904	**6AJZ3**
	Brass	—	FNPT	—	Apollo	38LF314AS	**52DD48**
	Brass	125 psi	GHT	180°F	Watts	8B	**6A766**
	Brass	125 psi	GHT	180°F	Watts	8BI	**6LL80**
	Brass, Stainless Steel	125 psi	GHT	180°F	Zurn Wilkins	BFP-9	**22N566**
	Brass, Stainless Steel, Acetal	125 psi	GHT	180°F	Zurn Wilkins	BFP-8F	**22N567**
	Chrome-Plated Brass	125 psi	GHT	180°F	Watts	8BC	**6LL79**



No. 6A766



No. 6KK08



No. 6KK03

Atmospheric-Type Vacuum Breakers

- Max. pressure: 125 psi

Prevent back-siphoning of polluted water into potable water systems and are corrosion-resistant forged-brass construction, except Nicholson® models help protect plant and process equipment against vacuum conditions typically associated with cooling applications. Nicholson models also promote better heat transfer efficiency, allow condensate to be drained from steam systems, and are for use in heat exchangers, jacketed kettles, steam mains, and other process equipment.

Note: Only install in areas where water spillage will not cause damage. Not for continuous-pressure applications.

Apollo, Lead-Free Bronze and Lead-Free Bronze Rough Chrome— Nos. 40D832 to 40D836 are certified for use in potable water applications. All models meet ASSE 1001 and NSF/ANSI.

Apollo, Rough Brass and Rough Brass Polished Chrome—Meet ASSE 1001.

Watts, Lead-Free Brass—Certified for use in potable water applications. Meet ASSE 1001 and ANSI A112.1.1, CSA B64 Certified; except Nos. 46A958 and 46A957 meet ASSE 1001 and are CSA B64.1.1 Certified only.

Zurn Wilkins, Cast Brass and Cast Bronze—Certified for use in potable water applications. Meet ASSE 1001 standards and CSA Certified; IAPMO Listed.

Size	Apollo Lead-Free Bronze; Max. Temp.: 212°F FNPT Item No.	Apollo Lead-Free Bronze-Rough Chrome; Max. Temp.: 212°F FNPT Item No.	Apollo Rough Brass; Max. Temp.: 212°F FNPT Item No.	Apollo Rough Brass-Polished Chrome; Max. Temp.: 212°F FNPT Item No.	Watts Lead-Free Brass; Max. Temp.: 180°F FNPT Item No.	Watts Lead-Free Brass; Max. Temp.: 33° to 180°F NPT Item No.	Zurn Wilkins Cast Brass, Cast Bronze, Silicone, Ultem, Polypropylene; Max. Temp.: 180°F FNPT x FNPT Item No.
¼"	40D832	31EE40	6KJ98	6KJ99	46A958	29YL78 *	—
	—	—	—	—	—	29YL73	—
⅜"	40D833	31EE41	—	6KK02	46A957	29YL79 *	—
½"	40D834	31EE43	6KK03	6KK04	—	—	22N560
¾"	40D835	31EE45	6KK05	6KK06	—	29YL81 *	22N561
1"	40D836	—	—	—	—	29YL77	22N562
1¼"	—	—	—	—	—	—	22N563
1½"	—	—	—	—	—	—	22N564
2"	—	—	—	—	—	—	22N565

**** Polished chrome.***



No. 6AJV6

Backflow Test Kits

- Accuracy: ±2 psid (descending), except No. 34CU35 is ±1 psid (descending), and No. 5AJ67 is accurate ±1% of full scale

For testing reduced pressure principle, pressure vacuum breaker and double check valve backflow prevention assemblies. Nos. 6AJV6 and 34CU33 to 34CU35 have soft-seated brass needle valves with replaceable valve seats and cleanable 90-micron filters that reduce plugging with scale, sand, and other contaminants. Capable of performing all known test procedures including those recommended by ASSE, AWWA, FCCC, HR-USC, and NEWWA. No. 34CU34 allows you to perform tests with the gauge mounted in carrying case, or gauge can be easily removed for added portability. Nos. 34CU33 to 34CU35 include 3 sets of brass fittings for hookup to all standard size test cocks. No. 20RJ62 fits ¼" to 2" backflow preventers and includes three ¼" plastic quick test fittings and O-rings.

Item	For Use With	Includes	Brand	Mfr. Model	Item No.
Backflow Preventer Test Kit, 3 Valve	Reduced Pressure Principal Backflow Preventers and Double Check Valves	Analog Test Gauge, (3)Test Valves, (9) Hose Adapters, (3) 3 ft. Hoses, 16" Security Strap, Carrying Case	Watts	TK-9A	**1KYB6**
Backflow Preventer Test Kit, 5 Valve	Grainger Items 34CU36, 34CU37, 34CU38, 34CU39, 34CU41	Carrying Case, Analog test Gauge, Pressure Gauge, (3) 5ft Hoses, NPT Adapter Fittings (Set of 12), Clear 4 ft. Bleed Tube, Certificate of Calibration.	Midwest	845-5	**6AJV6**
		Carrying Case, Analog test Gauge, Pressure Gauge, (3) 5ft Hoses, NPT Adapter Fittings (Set of 12), Clear 4 ft. Bleed Tube, Certificate of Calibration.	Midwest	835	**34CU34**
		Carrying Case, Analog test Gauge, Pressure Gauge, (3) 5ft Hoses, NPT Adapter Fittings (Set of 12), Clear 4 ft. Bleed Tube, Certificate of Calibration.	Midwest	847	**34CU35**
	Grainger Items 34CU36, 34CU37, 34CU38, 34CU40, 34CU41	Carrying Case, Analog test Gauge, Pressure Gauge, (3) 5ft Hoses, NPT Adapter Fittings (Set of 12), Clear 4 ft. Bleed Tube, Certificate of Calibration.	Midwest	830	**34CU33**
	Pressure Vacuum Breakers, Anti-spill Vacuum Breakers, Reduced Pressure Zone Assemblies and Double Check Valves	Analog Test Gauge, (3) Test Valves, (12) Hose Adapters, (3) 6 ft. Hoses, 16" Security Strap, and Carrying Case	Watts	TK-99E	**5AJ67**
Backflow Quick Connect Adapter	Grainger Items 34CU33, 34CU34, 34CU35, 6AJV6	(3) ½" NPT Quick Connect ADPT x ¼" Flare and 3 Spare O-Rings	Midwest	110703	**34CU37**
		(3) ¾" NPT Quick Connect ADPT x ¼" Flare and 3 Spare O-Rings	Midwest	110704	**34CU38**
Backflow Test Kit Replacement Hose	Grainger Item 34CU33	(3) Replacement Hoses	Midwest	110646	**34CU40**
Bleed-Off Valve Assembly	Grainger Items, 34CU34, 34CU35, 6AJV6	(3) Replacement Hoses	Midwest	110645	**34CU39**
In-Line Replacement Filters for Backflow Test Kit Hose	Grainger Items 34CU33, 34CU34, 34CU35, 6AJV6	—	Midwest	830-0001	**6AJV7**
		(6) Replacement In-Line Hose Filters	Midwest	98008	**34CU41**
Plastic Quick Test Fittings	Mfr. No. 14-975XL, 38-975XL, 12-975XL, 34-975XL, 1-975XL, 114-975XL, 112-975XL, 2-975XL, 34-375, 1-375, 14-975XL2, 12-975XL2, 34-975XL2, 1-975XL2, 1-975XL2, 112-975XL2, 2-975XL2, 12-375XL, 34-375XL, 1-375XL, 114-375XL	(3) Fittings	Zurn Wilkins	RK14-QTP	**20RJ62**
Test Cock Adapter Kit	Grainger Item 34CU33, 34CU34, 34CU35, 6AJV6	(3) ¼" NPT Quick Connect ADPT x ¼" Flare and 3 Spare O-Rings	Midwest	110631	**6AJW0**
		Contains Three ¼" NPT 90 Degrees Swivel Quick Connect ADPT x ¼" Flare, Three ½" NPT Quick Connect x ¼" FNPT ADPT, Three ¾" NPT Quick Connect x ¼" FNPT ADPT,and 3 Spare O-Rings	Midwest	110706	**6AJW2**
		Contains Three ¼" NPT Quick Connect ADPT x ¼" Flare, Three ½" NPT Quick Connect x ¼" FNPT ADPT, Three ¾" NPT Quick Connect x ¼" FNPT ADPT, and All Come with 3 Spare O-Rings	Midwest	110617	**6AJV9**
		Contains Three ¼" NPT Quick Connect ADPT x ¼" Flare 90 Degree Swivel Fitting and Three Spare O-Rings	Midwest	110705	**6AJW1**
Verticle Tube kit		One 15 x ½" Diameter Tube/Test Cock Adapter Assembly and One 15 x ½" Diameter Extension Tube	Midwest	830-0003	**6AJV8**

WATTS REGULATOR | ZURN WILKINS

Reduced-Pressure Zone (RPZ) Backflow Preventers

- Max. pressure: 175 psi
- NPT connections, except Nos. 5DMJ0 to 5DMJ4 have IPS, Nos. 15W053 to 15W055 have flanged end
- Find information on kit contents at Grainger.com®

Help prevent the reverse flow of polluted water into the potable water supply due to backsiphonage and backpressure.

Watts 009 Series—No. 6A771 is the M1 version of the 009 Series. Nos. 429J28 to 429J30 meet ASSE, CSA, and are 3-UL Classified. Nos. 5DMJ0 to 5DMJ4 meet ASSE, AWWA, CSA, IAPMO Foundation for Cross-Connection Control and Hydraulic Research at USC. Nos. 6A770 and 6A771 meet ASSE 1013, AWWA C-511-92, CSA B64.4, and IAPMO. Nos. 26X125 to 26X140 meet ASSE, CSA, UPC, and USC.

Zurn Wilkins 375XL Series—Models have a pressure differential relief valve located between 2 independently operated spring-loaded centers. Meet ASSE 1013, IAPMO, CSA, and USC. NSF-61 Listed.

Watts 909 Series—2½" to 4" models have flanged end connections. Meet ASSE 1013, AWWA C-511-92, CSA B64.4, except No. 26X122 also meets UPC and USC.

Zurn Wilkins 975XL2 Series—Top entry allows easy access to internal components. Meet ASSE 1013, CSA Certified, IAPMO Listed, and NSF-61 Listed Annex G.

Zurn Wilkins 975XL Series—Provide protection where a potential health hazard exists. Meet ASSE 1013, IAPMO, CSA, FM, and USC.

Air Gaps—Provide an unobstructed separation between potable water supply discharge and receiving vessel opening.

Repair Kits—Include disc assemblies, O-rings, and diaphragm.

Test Cocks—Use to facilitate backflow assembly testing or as isolation valves for gauges or small equipment lines.

Size	Body Material	W	L	Max. Temp.	Backflow Preventers Item No.	
Watts 009 Series						
½"	Copper Silicon Alloy	7"	11½"		429J28	*
½"	Lead Free Brass	4⅝"	10"		5DMJ0	
¾"	Bronze	5⅞"	14¼"		6A770	
¾"	Copper Silicon Alloy	7¼"	11²¹⁄₃₂"		429J29	*
¾"	Lead Free Brass	5"	10¾"		5DMJ1	
¾"	Lead Free Bronze	3⁷⁄₁₆"	10¾"		26X126	
¾"		3⁷⁄₁₆"	13¹⁵⁄₁₆"	180°F	26X139	
1"	Bronze	6¼"	20½"		6A771	
1"	Copper Silicon Alloy	10"	16¹³⁄₁₆"		429J30	*
1"	Lead Free Brass	5½"	16¾"		5DMJ2	
1"	Lead Free Bronze	3⁷⁄₁₆"	14½"		26X125	
1"		3⁷⁄₁₆"	18¼"		26X140	
1½"	Lead Free Brass	6"	17⅞"		5DMJ3	
2"		7¾"	21⅜"		5DMJ4	
Zurn Wilkins 375XL Series						
½"	Low Lead Cast Bronze	3⁹⁄₁₆"	8⅞"	180°F	45K857	
¾"		3⁹⁄₁₆"	8⅞"		45K858	
1"		4½"	11³¹⁄₁₆"		45K859	
1¼"		6¾"	14⅞"		45K860	
1½"		6¾"	15¼"		45K861	
2"		6¾"	16"		45K862	
Watts 909 Series						
¾"	Bronze	10¼"	17"	140°F	15W048	
1"		10¼"	17"		15W049	
1¼"		13½"	23½"		15W050	
1½"		13½"	23½"		15W051	
2"		13½"	23½"		15W052	
2½"	Cast Iron	24"	46"	110°F	15W053	
3"		24"	42¼"		15W054	
4"		27"	58"		15W055	
4"		34⅛"	55⅛"	140°F	26X122	



Watts 009 Series
No. 5DMJ0



Watts 909 Series
No. 15W048



Zurn Wilkins
975XL Series
No. 6AVX6



Zurn Wilkins
375XL Series
No. 45K857



Watts Repair Kit
for 909 Series
No. 6AUU4

Size	Body Material	W	L	Max. Temp.	Backflow Preventers Item No.
Zurn Wilkins 975XL2 Series					
¼"	Low Lead Cast Bronze	4¼"	5¾"	180°F	45K850
½"		4¼"	5¾"		45K851
¾"		5⅛"	12"		45K852
1"		5⅛"	13"		45K853
1¼"		6¼"	17"		45K854
2"		6¼"	18½"		45K856
Zurn Wilkins 975XL Series					
¾"	Bronze	5⅛"	12"	180°F	6AVX4
1"		5⅛"	13"		6AVX5
1¼"		6¼"	17"		6AVX6
1½"		6¼"	17⅜"		6AVX7
2"		6¼"	18½"		6AVX8

For Use With	Item No.
Watts Repair Kits for 009 Series	
Mfr. No. 009QT, ½ SS009M3QT	5AJ57
Watts No. 009QT	5AJ58
Mfr. No. 009-M1-QTS, 009QT	5AJ59
Watts No. 009QT	5AJ60
Mfr. No. 009QT	5AJ61
Watts Series 009, 2½ to 3"	6AUT0
Watts Series 009 M1, 1¼ to 2"	6AUT1
Watts Series 009 M2, ¾"	6AUT2
Watts Series 009 M2, 1"	6AUT3

Size	For Use With	Item No.
Watts Air Gaps		
¼" to ½"	Series 909, ¼" to ½"	1KYE8
¾" to 1"	Series 909, ¾" to 1"	1KYA3
1¼" to 3"	Series 909, 1¼" to 3"	1KYF1
2½" to 10"	Series 957, 2½" to 10"	1RCX9
4" to 6"	Series 909, 4" to 6"	1KYE4
Watts Caps/Adapters		
⅛"	Watts Series SAE-TC, ⅛" SAE	6AUY1
⅛"	Watts Series SAE-TC, ⅛" SAE	6AUY2
⅛" to ¼"	Watts RK-TC-P, ⅛" to ¼" NPT	6AUY3
¼"	Watts Series SAE-TC, ¼"	6AUY4
Watts Vent Elbows		
—	Watts Series 909 ELA	6AUY9
—	Watts Series 909 ELC	6AUZ0
—	Watts Series 909 ELF	6AUZ1
—	Watts Series 909 ELH	6AUZ2

For Use With	Item No.
Watts Repair Kits for 909 Series	
Mfr. No. ¾ 909QT, 1 909 QT	1RCW1
Mfr. No. 11/4 909 QT, 11/2 909M1QT, 2 909M1QT	1RCW3
Mfr. No. 21/2 909 NRS, 3 909 NRS	1RCW4
Mfr. No. 4 909 NRS	1RCW6
Mfr. No. 957-OSY 21/2, 957-OSY 3", 957-OSY 4"	1RCY2
Watts Series 909, ¾ to 1"	6AUR1
Watts Series 909, ¾ to 1"	6AUU4
Watts Series 909, ¾ to 1"	6CUN2
Watts Series 909 M1, 1¼ to 2"	6AUR5
Watts Series 909 M1, 1¼ to 2"	6AUU8

For Use With	Item No.
Watts Test Cocks for 009, 909 Series	
Watts Series RK-SAE-TC, ⅛" SAE	6AUY0
Watts Lead-Free Test Cocks for 009, 909 Series	
Watts Series LF-RK-TC3, 2½"	46A950
Watts Series LF-TC, ¼"	46A951
Watts Test Cock Repair Kit	46A952
Watts Series LF-TC, ½"	46A953
Watts Series LF-TC, ¾"	46A954
Watts Series LF-NPT-TC, ⅛"	46A955

For Use With	First Check Valve Repair Kit Item No.	Second Check Valve Repair Kit Item No.
Watts Repair Kits for 009 Series		
Watts Series 009, ¼ to ½ in	6CUH6	6CUL3
Watts Series 009, ¾ to 1 in	6CUH7	6CUL4
Watts Series 009, 1¼ to 2 in	6CUH8	6CUL5
Watts Series 009, 2½ to 3 in	6CUH9	6CUL6
Watts Series 009 M1, 1¼ to 2 in	6CUJ0	6CUL7
Watts Series 009 M2, ¾ in	6CUJ1	6CUL8
Watts Series 009 M2, 1 in	6CUJ2	6CUL9
Watts Series 009 M2, 1¼ to 1½ in	6CUJ3	6CUN0
Watts Series 009 M2, 2 in	6CUJ4	6CUN1
Watts Series 009 M3, ¾ in	6CUJ5	—

For Use With	Relief Valve Repair Kit Item No.	Total Relief Kit Item No.
Watts Repair Kits for 009 Series		
Watts Series 009, ¼ to ½"	6AUP2	6AUT6
Watts Series 009, ¾ to 1"	6AUP3	6AUT7
Watts Series 009, 2½ to 3"	6AUP5	6AUT8
Watts Series 009 M2, ¾"	6AUP7	6AUT9
Watts Series 009 M2, 1"	6AUP8	6AUU0
Watts 009 M2, 1¼ to 1½"	—	6AUU1
Watts Series 009 M2, 1¼ to 1½"	6AUP9	—
Watts Series 009 M2, 2"	6AUR0	6AUU2
Watts Series 009 M3, ¾"	—	6AUU3

For Use With	First Check Valve Repair Kit Item No.	Second Check Valve Repair Kit Item No.
Watts Repair Kits for 909 Series		
Watts Series 909, ¾ to 1"	6CUJ6	—
Watts Series 909 M1, 1¼ to 2"	6CUK1	—
Watts Series 909, 2½ to 3"	6CUJ7	6CUN3
Watts Series 909, 4"	6CUJ8	6CUN4

For Use With	Relief Valve Repair Kit Item No.	Backflow Preventer Repair Kit Item No.	Total Relief Kit Item No.
Watts Repair Kits for 909 Series			
Watts Series 909, 2½ to 3"	6AUR2	—	6AUU5
Watts Series 909, 4"	6AUR3	—	6AUU6
Watts Series 909 M1, 4 to 8"	6AUR6	—	—
Watts Series 909, 6"	—	6AUT4	—

For Use With	Item No.
Zurn Wilkins Repair Kits for 975XL Series	
Zurn Wilkins No. 14-975XL, 38-975XL, and 12-975XL6AVX1, 6AVX2, 6AVX3	6CUN6
Zurn Wilkins No. 114-975XL, 112-975XL, 2-975XL	6CUN8
Zurn Wilkins No. 34-975XL, 1-975XL	6CUN7

Description	For Use With	Item No.
Zurn Wilkins		
¼" Ball Type Test Cock	Mfr. No. 14-860XL	20RJ65
⅛" Ball Type Test Cock	Mfr. No. 18-860XL	20RJ66
Complete Relief Valve Repair Kit	Mfr. No. 975 212, 975 213, 975 214, 975 215, 975 216	20RJ58
Low-Lead ¼" Ball Type Test Cock	Mfr. No. 18-860XLFT	20RJ67
Low-Lead 375 Series Vessel Repair Kits	Mfr. No. 34-975XL2, 34-375XL	20RJ71
	Mfr. No. 14-975XL	20RJ72
	Mfr. No. 114-975XL2	20RJ73
Repair Kit	Mfr. No. 975 212, 975 213, 975 214, 975 215, 975 216	20RJ51
Repair Kits for 975XL Series	Mfr. No. 114-975XL, 112-975XL, 2-975XL	20RJ38
	Mfr. No. 34-975XL, 1-975XL	20RJ39
	Mfr. No. 14-975XL, 38-975XL, 12-975XL	20RJ63
Rubber Repair Kit	Mfr. No. 114-975XL, 112-975XL, 2-975XL	20RJ35
	Mfr. No. 34-975XL, 1-975XL	20RJ36
	Mfr. No. 375, 375A8, 375A9, 375A10	20RJ59
Seal Ring	Mfr. No. 950XL34, 950XL31	20RJ45
Seal Ring Repair Kit	Mfr. No. 34-975XL, 1-975XL	20RJ60

*** Press connection.***





RPZ Backflow Preventers with Composite or Ductile Iron Body

ZURN WILKINS

- Max. pressure: 175 psi
- Max. temp.: 180°F; except Nos. 6AVY4 to 6CUN5 are 140°F
- For kit contents, go to Grainger.com®

Designed for installation on potable water lines to protect against both back-siphonage and backpressure of contaminated water into the potable water supply. Assemblies provide protection where a potential health hazard exists. Removable pressure vessel allows for easy repair and maintenance. Composite materials reduce the amount of bronze in the valve providing a built-in antitheft feature. Meet ASSE 1013, IAPMO, CSA, and USC.

Size	Connection	Item No.
Reduced Pressure Zone Backflow Preventers		
Bronze		
½"	FNPT	46KK25
¾"		46KK26
1"		46KK27
1¼"		46KK28
1½"		46KK29
2"		46KK30

Size	Connection	Item No.
Bronze Valve Body and Shut Off Valves, Composite Housing and Check Modules		
¾"	FNPT X FNPT	6AVX9
1"		6AVY0
1¼"		6AVY1
1½"		6AVY2
2"		6AVY3
Epoxy Coated Ductile Iron Body		
2½"	Flanged x Flanged	6AVY4
3"		6AVY5
4"		6CUN5

For Use With	Item No.
Lead-Free Zurn Wilkins Series 375R Repair Kits	
Zurn No. 34-375, Lead Free	6CUN9
Zurn No. 1-375, Lead Free	6CUP0
Zurn No. 114-375, 112-375, and 2-375	6CUP1
Zurn No. 212-375A and 3-375A	6CUP2
Zurn No. 212-375A, 3-375A, 4-375A	6CUP3

Description	For Use With	Item No.
Repair Kits		
375 Inlet Ball Valve Repair Kit	Mfr. No. 375-1	20RJ64
375 Series Repair Kit	Mfr. No. 375, 375A8, 375A9, 375A10	20RJ49
Complete Repair Kit, 212" to 6"	Mfr. No. 2-375, 212-375A, 3-375A, 4-375A	20RJ48
Number 1 Check Assembly Repair Kit, 2½" to 4"	Mfr. No. 212-375A, 3-375A, 4-375A	20RJ42
Number 1 Check Assembly Repair Kit, 2½" to 6"	Mfr. No. 212-375A, 3-375A, 4-375A	20RJ41
Number 1 Check Assembly Repair Kit, 8" to 10"	Mfr. No. 375, 375A8, 375A9, 375A10	20RJ43
Number 2 Check Assembly Repair Kit, 2½" to 6"	Mfr. No. 212-375A, 3-375A, 4-375A	20RJ40
Number 2 Check Assembly Repair Kit, 4" to 6"	Mfr. No. 4-375A	20RJ44
Wilkins No. 212-375 Repair Kit	Mfr. No. 2-375, 212-375A, 3-375A, 4-375A	20RJ46

RPZ Y-Shaped Backflow Preventers

FEBCO

- Max. pressure: 175 psi
- Max. temp.: 140°F
- For kit contents, go to Grainger.com®

Modular relief and check valves can be removed without the danger of spool substitution. Bronze construction. Use in industrial irrigation systems to protect against contamination from high-hazard (toxic) fluids. Meet ASSE 1013, AWWA C-511-92, CSA B64.4.



Size	Connection	W	L	Mfr. Model	Item No.
Reduced Pressure Zone Backflow Preventer, Bronze					
¾"	FNPT	4"	14⅜"	¾ 825 YA	3AZF7
1"		4"	14⅜"	1 825 YA	3AZF8
1½"		10"	22"	825 YA 1 ½	6AUX3
2"		10"	22"	825 YA 2	6AUX4
Reduced Pressure Zone Backflow Preventer, Lead Free Bronze					
¾"	NPT	4⅛"	12"	¾ LF825YA-QT RP	26X127
1"		4⅛"	12¾"	1 LF825YA-QT RP	26X128
1½"		5"	17"	1 ½ LF825YA-QT RP	26X129
2"		5"	17¾"	2 LF825YA-QT RP	26X130

Description	For Use With	Item No.
Repair Kits		
Check Valve Repair Parts	Febco Backflow, ¾ to 1"	15W038
Relief Valve Repair Kit	Febco Backflow, ¾ to 1"	15W039
	Febco Backflow, ¾ to 1"	15W042
	Febco Backflow, 1½ to 2"	15W044
	Febco Backflow, 1½ to 2"	15W047
Rubber Parts Kit	Febco Backflow, ¾ to 1"	15W040
	Febco Backflow, 1½ to 2"	15W045
Single Check Kit	Fedco Backflow, ¾ to 1"	15W041
	Febco Backflow, 1½ to 2"	15W046





Lead-Free Reduced-Pressure Zone (RPZ) Backflow Preventers

Apollo Valves

- Max. pressure: 175 psi
- Max. temp.: 180°F
- Bronze body

Top-mounted test cocks. Backflow preventers are certified for use in potable water applications Meet ASSE 1013, USC, FCCCHR, and ARRA; UL Classified when ordered without ball valves.

Repair Kits—Use to replace all elastomer parts in assemblies. Include O-rings, seat, and diaphragm relief valve.

Air Gap Drain Kits—Funnel minor relief valve discharges into the drainage system. Threaded connections.

Replacement Test Cock—Use to facilitate backflow assembly testing or as isolation valves for gauges or small equipment lines.

Size	Connection	W	L	Mfr. Model	Item No.
Lead Free Bronze Reduced Pressure Zone Backflow Preventers					
½"	FNPT	2⅞"	10⅛"	4ALF203A2F	40D852
¾"	FNPT	3⅛"	12⅝"	4ALF204A2F	40D853
1"	FNPT	3¼"	14⅝"	4ALF205A2F	40D854
1¼"	FNPT	5⅛"	17½"	4ALF206T2F	40D855
1½"	FNPT	5⅛"	18"	4ALF207T2F	40D856
2"	FNPT	5⅞"	20⅛"	4ALF208T2F	40D857

For Use With	Item No.
Backflow Preventer Repair Kits	
Apollo No. 40201T2, 40202T2, and 40203T2	2ZXY7
Mfr. No. 40204T2	2ZXY8
Mfr. No. 40207T2	2ZXY9

Size	For Use With	Item No.
Air Gap Drain Kits		
¼", 3/8", ½"	Mfr. No. 40201T2, 40202T2, 40203T2	2ZXY5
¾" to 1"	Mfr. No. 40207T2	2ZXY6
½", ¾", 1"	4A RPZ ½" to 1"	40D971
1¼", 1½", ½"	4A RPZ 1¼" to 1½"	40D972
2"	4A RPZ 2"	40D973
Test Cock, MNPT x FNPT		
⅛" x ¼"	Testable Backflow Devices	36Y566





Bronze and Lead-Free Brass Antisiphon Vacuum Breakers

WATTS REGULATOR

- For kit contents, go to Grainger.com®

Protect the potable water supply against backsiphonage of contaminated water in indoor point-of-use applications. NPT connection. Meet USC, except Lead-Free 288 Series meets ANSI A112.1.1 and ASSE 1001; CSA B64 Certified.

Bronze 800 Series—Use for health hazard continuous-pressure applications where the water enters equipment at or below its flood rim.

Size	Max. Pressure	Temp. Range	Mfr. Model	Item No.	
Bronze, Watts 800 Series					
¾"	180 psi	33° to 180°F	800M4QT3/4"	1RCZ6	
1"			800M4QT-1"	1RCZ8	
Lead Free Brass, 288 Series					
⅜"	125 psi	33° to 180°F	LF288A-3/8"	29YL74	
½"			LF288A-1/2"	29YL75	
½"			LF288AC-1/2"	29YL80	*
¾"			LF288A-3/4"	29YL76	

** Polished-chrome finish.*

Lead-Free Brass 288 Series—Ideal for low flow installations such as laboratory equipment that use a small amount of water.

For Use With	Item No.
Vacuum Breaker Repair Kits for Watts Series 008	
Watts Series 008, ¾ to 1 in	6AUV6
Watts Series 008, ⅜ to ½ in	6AUV5
Vacuum Breaker Repair Kits for Watts Series 800	
Watts Series 800, ½ to 1 in	6CUK2
Watts Series 800, ½ to 1 in	6AUV0
Watts Series 800, ½ to 1 in	6AUV7
Watts Series 800 M2, ½ to 1 in	6CUK3
Watts Series 800 M2, ½ to 1 in	6AUV1
Watts Series 800 M2, ½ to 1 in	6AUV8
Watts Series 800 M3, ½ to ¾ in	6CUK4
Watts Series 800 M3, ½ to ¾ in	6AUV2
Watts Series 800 M3, ½ to ¾ in	6AUV9
Watts Series 800 M4, ½ to ¾	6CUK5
Watts Series 800 M4, ½ to ¾ in	6AUV3
Watts Series 800 M4, ½ to ¾ in	6AUW0
Watts Series 800 M4, 1 in	6CUK6
Watts Series 800 M4, 1 in	6AUV4
Watts Series 800 M4, 1 in	6AUW1

WATTS REGULATOR

Double Check Valve Assemblies

- Max. pressure: 175 psi
- Max. temp.: 180°F
- Bronze body

For cross-connections identified as for nonhealth-hazard applications. Include strainer. NPT connection. Meet ASSE 1015 and AWWA C-510-89, except Lead-Free models meet ASSE 1015, AWWA C-510, CSA B64.5, and IAPMO PS31.



Size	Watts 007 Series Mfr. Model	Watts 007 Series Item No.	Lead-Free Watts 007 Series Mfr. Model	Lead-Free Watts 007 Series Item No.
¾"	007M2QTS-3/4"	**6A767**	¾ LF007M3-QT-S	**15W058**
1"	007MIQTS-1	**6A768**	1 LF007M1-QT-S	**15W059**
2"	007MIQTS-S	**6A769**	2 LF007M1-QT-S	**15W060**

Lead-Free Double Check Valves Assemblies

Apollo Valves

- Max. pressure: 175 psi
- Max. temp.: 180°F

Help protect potable water supply from contamination due to reverse flow. Accessible internal components ease maintenance. Test cocks with SAE flare connection for faster testing. Stainless steel handles and trim for long life. NPT connection. Certified for use in potable water applications. Meets USC, IAPMO, and CSA Certified.

Size	W	L	Mfr. Model	Item No.
½"	2½"	11"	4ALF103A2F	**40D846**
¾"	3"	12¾"	4ALF104A2F	**40D847**
1"	3¼"	14⅜"	4ALF105A2F	**40D848**
1¼"	4¾"	18⅝"	4ALF106A2F	**40D849**
1½"	4¾"	18¾"	4ALF107A2	**40D850**
2"	5⅜"	21⅛"	4ALF108A2F	**40D851**



Dual Check Valves

WATTS REGULATOR · Apollo Valves · ZURN WILKINS

Protect against backpressure and backsiphonage contamination by nonhazardous liquids. All models meet ASSE 1024, except where indicated in table. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

Nos. 4A810 and 4A811—With integral strainer and durable rubber discs.

No. 48UE76—2 independently acting, spring-loaded check valves; corrosion-resistant housing.

No. 5AJ89—For nonhealthhazard, continuous-pressure use and ideal for washdown applications in dock areas. Ball valve design and integral stainless steel screen. Can be mounted vertically.

Size	Connec. Type	Material of Construc.	Max. Water Pressure	Max. Temp.	Brand	Mfr. Model	Item No.
Dual Check Valve							
¾"	Press	Brass	175 psi	250°	Watts Regulator	¾ 9DM2-PRESS	**429J17**
Dual Check Valve w/ Atmospheric Vent							
½"	FNPT Union	Bronze	—	250°	Watts	9D-M3-1/2"	**4A810** *
¾"	FNPT Union	Bronze	—	250°	Watts	9D-M2-3/4"	**4A811** *
	FNPT Union	Forged Brass	175 psi	250°	Apollo	4A4A44AM	**48UE76** *
	FNPT x MNPT	Brass	—	180°	Watts	912-HP ¾"	**5AJ89** *
Lead Free - Dual Check Valve							
¾"	FNPT	Lead-Free Bronze	—	180°	Watts	¾ LF7 U2-2	**46A960**
	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3A44A	**52DD47**
	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3A44B	**40D861**
	MNPT x Union FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	34MX34UF-700XL	**22N553**
	SWV X NPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3S54A	**40D864**
	Union FNPT x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	34UFX34F-705	**22N556**
	Union FNPT x FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	34UFX34F- 700XL	**22N552**
⅜"	FNPT	Lead-Free Bronze	—	180°	Watts	⅜ LF7	**46A959**
	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3A22A	**40D858**
1"	FNPT	Lead-Free Bronze	—	180°	Watts	1 LF7 U2-2	**46A961**
	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3A55A	**48WL17**
	MNPT x Union FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	1MX1UF-700XL	**22N555**
	SWV X NPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3S65A	**40D865**
	Union Female Meter x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFMX1F-705	**22N559**
	Union FNPT x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFX1F-705	**22N557**
	Union FNPT x FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	1UFX1F-700XL	**22N554**
1" x ¾"	Union Female Meter x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFMX34F-705	**22N558**
Lead Free - Dual Check Valve w/ Atmospheric Vent							
½"	FNPT	Lead-Free Brass	175 psi	250°	Apollo	4ALF4A33AM	**406F53**

** Meet ASSE 1012.*





Valve Enclosures and Boxes

HotBox · NDS We put water in its place

Valve Enclosures—Help protect backflow protection devices, valves, and pumps from freezing. The vandal-resistant access cover is hinged; lockable. Drain openings accommodate maximum RPZ discharge. 120V. Unit can be anchored to a concrete pad. Meets ASSE 1060.

Valve Boxes—Protect irrigation valve and the overlapping cover keeps debris from between the body and cover. Rugged PVC construction with fade-resistant finish. For use in commercial, residential, and municipal landscape applications.

Meter Boxes—Ideal for protecting underground water meters and constructed of rugged, injection molded, recycled structural foam polyolefin material. UV inhibitors help prevent discoloration and cracking. The corrugated sidewalls help provide greater strength, while the reinforced covers keep out debris and can handle heavy loads.

Description	Body Material	Color	H	W	L	Item No.
Valve Enclosures, HOT BOX						
Heated, Pipe Size: ¾", Ins. Class: R8	Fiberglass	Beige	22"	11"	19"	**6CHJ7**
Heated, Pipe Size: 1", Ins. Class: R8			23"	13"	27"	**6CHJ9**
Heated, Pipe Size: 2", Ins. Class: R8			28"	13"	39"	**6CHK1**
Heated, Pipe Size: 3", Ins. Class: R8			45"	26"	70"	**6CHK3**
Heated, Pipe Size: 4", Ins. Class: R10	Aluminum	Gray	50½"	32"	90"	**6CHK5**
Unheated, Pipe Size: ¾", Ins. Class: R8	Fiberglass	Beige	22"	11"	19"	**6CHJ8**
Unheated, Pipe Size: 1", Ins. Class: R8			23"	13"	27"	**6CHK0**
Unheated, Pipe Size: 2", Ins. Class: R8			28"	13"	39"	**6CHK2**
Unheated, Pipe Size: 3", Ins. Class: R8			45"	26"	70"	**6CHK4**
Unheated, Pipe Size: 4", Ins. Class: R10	Aluminum	Gray	50½"	32"	90"	**6CHK6**
Valve Boxes, NDS						
Oval, Pipe Size: 2¼" x 2¾"	Polyolefin	Green	9¾"	11"	15¼"	**52XA21**
Rectangular	PVC	Black/Green	12"	15½"	21"	**20RE34**
			12"	20"	13"	**20RE35**
			12¼"	15⁹⁄₁₆"	21⁵⁄₁₆"	**20RE38**
Rectangular, Pipe Size: 2¾" x 2½"	Polyolefin	Green	12¾"	15⅛"	21⅜"	**52XA07**
Rectangular, Pipe Size: 3" x 4"			10¼"	13⅜"	19¼"	**52XA08**
Round, 6½" Dia.	PVC	Black/Green	9"	8⅜"		**20RE32**
Round, 9½" Dia.			11⅝"	12⅞"		**20RE33**
Meter Boxes, NDS						
Rectangular, Pipe Size: 2½" x 3¼"	Polyolefin	Black	1½"	11"	16¼"	**52XA14**
			1⅝"	10⅛"	15⅜"	**52XA17**
			12"	15¾"	21½"	**52XA12**
			12"	15¾"	21½"	**52XA13**
			12"	16¼"	21¼"	**52XA15**
			12"	16¼"	21¼"	**52XA16**
			12¼"	15¾"	21⅝"	**52XA11**
			12⁹⁄₁₆"	15¾"	21⅜"	**52XA10**
			1²¹⁄₃₂"	13¾"	19¾"	**52XA18**
Rectangular, Pipe Size: 3" x 4"			12"	20"	25¾"	**52XA19**
			12¼"	19¾"	26"	**52XA20**
Round, Pipe Size: 2¼" x 2¾"			9"	8½"	8½"	**52XA09**





WATTS REGULATOR · LEONARD · ZURN WILKINS · Bradley · CASH ACME
OVERBUILT IS AN UNDERSTATEMENT.®


No. 5DMF0


No. 20RH69

Lead-Free Point of Use Mixing Valves

Hot water temperature control valves are specifically designed for mixing cold and hot water on hot water supply systems. Can be used to reduce the temperature of hot water from the system, and are ideal for radiant heat and under-the-sink applications. All models are certified for use in potable water applications.

Inlet/Outlet Size	Inlet/Outlet Type	Body Material*	Flow Rate	Temp. Range	Max. Pressure	Brand	Item No.
Mixing Valves							
	Comp.	BR	0.5 to 2.5 gpm	80° to 120°F	150 psi	Watts	**20G110**
	Comp.	BZ	0.25 to 5 gpm	90° to 140°F	125 psi	Leonard	**15Z013**
	Comp.	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn	**45K867**
⅜"	FNPT	BZ	0.5 to 3.10 gpm	95° to 115°F	145 psi	Zurn	**45K863**
	FNPT	BZ	0.5 to 3.10 gpm	95° to 115°F	145 psi	Zurn	**45K864**
	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D643**
	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D645**
	FNPT	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF2**
	PEX	BR	20 gpm at 125 psi	80° to 120°F	150 psi	Watts	**5DMF7**
	Solder	BR	0.5 to 23 gpm	80° to 120°F	150 psi	Watts	**5DMF0**
	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF4**
	FNPT	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn	**45K865**
	FNPT	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn	**45K866**
½"	MNPT	BZ	0.25 to 12 gpm	90° to 140°F	125 psi	Leonard	**15Z014**
	Press	CSA	0.5 to 12 gpm	80° to 120°F	150 psi	Watts	**429J22**
	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**429J19**
	MNPT	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D642**
	MNPT/Sweat	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D644**
	PEX	GFP	0.5 to 11 gpm	59° to 140°F	125 psi	Bradley	**40D648**
	FNPT	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF3**
	PEX	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF6**
	PEX	BR	20 gpm at 125 psi	80° to 120°F	150 psi	Watts	**5DMF8**
	Solder	BR	0.5 to 20 gpm	80° to 120°F	150 psi	Watts	**5DMF1**
	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF5**
¾"	MNPT	BZ	0.5 to 13 gpm	90° to 140°F	125 psi	Leonard	**15Z015**
	Press	CSA	0.5 to 12 gpm	80° to 120°F	150 psi	Watts	**429J23**
	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**429J20**
	MNPT	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D646**
	PEX	GFP	0.5 to 11 gpm	59° to 140°F	125 psi	Bradley	**40D649**
	Sweat	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D647**

Inlet/Outlet Size	Inlet/Outlet Type	Body Material*	Temp. Range	Max. Pressure	Brand	Item No.
Inline Hot Water Shut-Off						
½"	NPT	BR	117° to 185°F	145 psi	Cash Acme	**20RH71**
Mini Thermostatic Mixing Valve						
⅜"	Comp.	BZ	95° to 118°F	230 psi	Cash Acme	**20RH70**
Thermostatic Mixing Valves w/Locking Mechanism						
½"	Push Fit	BZ	85° to 130°F	200 psi	Cash Acme	**20RH65**
¾"	Push Fit	BZ	85° to 130°F	200 psi	Cash Acme	**20RH66**
½"	NPT	BZ	85° to 130°F	230 psi	Cash Acme	**20RH67**
¾"	NPT	BZ	85° to 130°F	230 psi	Cash Acme	**20RH68**
¾"	NPT	DZRBR	90° to 130°F	150 psi	Cash Acme	**20RH69**

** BR = brass, BZ = bronze, CSA = copper silicone alloy, DZRBR = DZR brass, GFP = glass-filled polysulfone.*

WATTS REGULATOR

Automatic Air Vent Valves, Air Separators, and Boiler Feed Valves


No. 46A967

Automatic Air Vent Valves, Brass—Provide automatic air venting for cold or hot water distribution systems. Valve can be disassembled for maintenance.

Automatic Vents for Hot Water, Brass—Allows easy replacement cartridge installation without system shut down. Suitable for automatic or manual air release on baseboards, convectors, radiators, and high points in piping systems.

Air Separators, Iron—Designed to separate air from water in hydronic heating systems. Separators have tappings that allow installation of an air vent and expansion tank.

Boiler Feed Valves with Backflow Preventer, Cast-Iron—Combination backflow preventer and feed water pressure regulator in 1 pre-assembled unit.

Inlet	Max. Working Pressure (psi)	Max. Temp. (°F)	W (in.)	H (in.)	Item No.
Automatic Air Vent Valves, Brass					
½"	150	240°	1¼	3⁹⁄₁₆	**46A962**
¾"			1¼	3⅜	**46A963**
1"			1⅜	3½	**46A964**
Automatic Vent For Hot Water, Brass					
⅛"	125	240°	1	1½	**46A965**
¼"			1	1½	**46A966**
Air Separator, Iron					
1"	80	275°	3	4	**46A969**
1¼"			3	4	**46A970**
1½"			3	5⁵⁄₁₆	**46A971**

Pipe Size	Max. Pressure	Max. Fluid Temp.	L	H	Item No.
Boiler Feed Valve w/Backflow Preventer, Brass, Bronze					
½"	100 psi	212°F	8½"	5¼"	**46A967**
Boiler Feed Valve w/Backflow Preventer, Cast Iron					
½"	100 psi	212°F	8½"	5¼"	**46A968**

WATTS REGULATOR

Pressure-Reducing Control Valves


No. 6AKW2


No. 6CJP5

- Operating temp.: 180°F
- Adjustment range: 30 to 300 psi

Ductile iron body and cover. Stem, spring, and nut are stainless steel; trim is 316 stainless steel. Buna N elastomer. Meet ASTM A536. NSF Listed.

Full Port—Throttles to reduce higher upstream pressure to constant lower stream pressure. Adjustable closing speed and reducing setpoint.

Single Chamber—Fixed orifice with nonadjustable closing speed and set point.

Description	For Use With	Item No.
Rebuild Kits		
Pilot Rebuild Kit	Mfr. No. 263AP	**6AKW1**
	6AKW9	**6AKX1**
	6AKX0	**6AKX2**
Pressure Reducing Pilot	6AKW2-8	**6AKW9**
	All M116 Model Numbers	**6AKX0**
Pressure Regulator, Lead-Free Brass	—	**40F295**
Valve Rebuild Kit	6CJP1	**6CJP8**
	6CJP2-4	**6CJP9**
	Mfr. No. 115-4 FL	**6CJR0**
	6CJP6	**6AKV9**
	6AKW2, 6AKW3	**6AKX3**
	6AKW4	**6AKX4**
	6AKW5	**6AKX5**
	6AKW6	**6AKX6**
	6AKW7	**6AKX7**
	6AKW8	**6AKX8**

Pipe Size	Connec. Type	Operating Pressure	Max. Continuous Flow Rate	Max. Intermittent Flow Rate	Port Size	Item No.
Full Port						
2"	Threaded	400 psi	210 gpm	265 gpm	½" x ½" x ¼"	**6AKW2**
2"	Flanged	250 psi	210 gpm	265 gpm	½" x ½" x ¼"	**6AKW3**
2½"	Threaded	400 psi	300 gpm	390 gpm	½" x ½" x ⅛"	**6AKW4**
3"	Flanged	250 psi	485 gpm	590 gpm	½" x ½" x ⅜"	**6AKW5**
4"	Flanged	250 psi	800 gpm	1000 gpm	½" x ½" x ⅜"	**6AKW6**
6"	Flanged	250 psi	1850 gpm	2300 gpm	½" x ½" x ½"	**6AKW7**
8"	Flanged	250 psi	3100 gpm	4000 gpm	½" x 1" x ½"	**6AKW8**
Single Chamber						
1¼"	Threaded	400 psi	93 gpm	115 gpm	¼" x ½" x ⅛"	**6CJN9**
1½"	Threaded	400 psi	125 gpm	158 gpm	¼" x ½" x ⅛"	**6CJP0**
2"	Threaded	400 psi	208 gpm	250 gpm	½" x ½" x ¼"	**6CJP1**
2½"	Threaded	400 psi	300 gpm	370 gpm	½" x ½" x ⅜"	**6CJP2**
3"	Threaded	400 psi	460 gpm	570 gpm	½" x ½" x ⅜"	**6CJP3**
3"	Flanged	250 psi	460 gpm	570 gpm	½" x ½" x ⅜"	**6CJP4**
4"	Flanged	250 psi	800 gpm	1000 gpm	½" x ½" x ⅜"	**6CJP5**
6"	Flanged	250 psi	1800 gpm	2300 gpm	½" x ½" x ½"	**6CJP6**

Air Release and Air Vacuum Valves

VAL-MATIC®

- Max. temp.: 250°F
- Vacuum pressure: 29" Hg
- FNPT connection

Cast-iron construction. Float and internal components are 316 stainless steel.

Air Release Valves—Resilient seal for positive shutoff. Nonclogging design helps eliminate backwash. Releases pockets of accumulated air in a pressurized water system.

Air Vacuum Valves—Have high/low pressure resilient seating. Full pipe size inlets and outlets help prevent clogging. For use in water distribution and transmission and vacuum protection.

Air Release/Air Vacuum Valves—Incorporate both an air release valve and an air vacuum valve into 1 compact unit. Suitable for all high points in a water distribution transmission system.


No. 5LYL0


No. 5WLY6

Application	Inlet Size	Outlet Size	Min. Pressure	Max. Pressure	Max. Vent Capacity	Item No.
Air Release Valves						
Clean Water	½"	½"	5 psi	175 psi	6 scfm at 150 psi	**5LYL0**
	¾"	½"	5 psi	175 psi	6 scfm at 150 psi	**5LYL1**
	1"	½"	5 psi	150 psi	55 scfm at 150 psi	**5LYL3**
	1"	½"	5 psi	175 psi	6 scfm at 150 psi	**5LYL2**
	2"	½"	5 psi	150 psi	55 scfm at 150 psi	**5LYL4**
Waste Water	2"	½"	5 psi	150 psi	55 scfm at 150 psi	**5WLY3**
	3"	½"	5 psi	150 psi	55 scfm at 150 psi	**5WLY4**
	4"	½"	5 psi	150 psi	55 scfm at 150 psi	**5WLY5**
Air Vacuum Valves						
Clean Water	½"	½"	5 psi	300 psi	—	**5WLX9**
	1"	1"	5 psi	300 psi	—	**5WLY0**
	2"	2"	5 psi	300 psi	—	**5WLY1**
	3"	3"	5 psi	300 psi	—	**5WLY2**
Air Release/Air Vacuum Valves						
Clean Water	1"	1"	5 psi	300 psi	18 scfm at 300 psi	**5LYL5**
	2"	2"	5 psi	300 psi	25 scfm at 300 psi	**5WLX6**
	3"	3"	5 psi	300 psi	25 scfm at 300 psi	**5WLX7**
	4"	4"	5 psi	300 psi	25 scfm at 300 psi	**5WLX8**
Waste Water	2"	1"	5 psi	150 psi	25 scfm at 150 psi	**5WLY6**
	2"	2"	5 psi	150 psi	29 scfm at 150 psi	**5WLY7**
	3"	3"	5 psi	150 psi	45 scfm at 150 psi	**5WLY8**

Mixing Valves

POWERS™ WATTS REGULATOR

Certified for use in potable water applications.

Powers—Feature paraffin-based, advanced thermal actuation design to sense and adjust outlet temperature for precise temperature control. Virtual shutoff if supply pressure fails. Vandal-resistant locking mechanism. Rotatable union triple-duty checkstops.

- Max. pressure: 125 psi
- Temp. range: 90° to 160°F

Watts®—Uses a double throttling design to control both the cold and hot water supply to the mixed outlet. Includes an adjustment cap with locking feature.

- Max. pressure: 150 psi
- Temp. range: 80° to 120°F

Inlet Size	Outlet Size	Inlet/ Outlet Type	Flow Rate	Body Material	Std.	Brand	Mfr. Model	Item No.
¾"	¾"	FNPT	42 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ LFMM431-1	15W074
	1"	FNPT	64 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ x 1 LFMM432-1	15W075
	1"	NPT	57 gpm at 45 psi	Lead-Free Brass	CSA B125, ASSE 1017	Powers	LFSH1432 W/TP GAUGE	26X132
1"	1"	PEX	20 gpm at 125 psi	Brass	ASSE 1016-96, ASSE 1017ASSE 1069 & ASSE 1070CSA B125 Certified	Watts	1 LF MMV-PEX	5DMF9
1¼"	1¼"	FNPT	110 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ¼ LFMM433-1	15W076
	1½"	FNPT	144 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ½ LFMM434-1	15W077
	1½"	NPT	127 gpm at 45 psi	Lead-Free Brass	CSA B125, ASSE 1017	Powers	LFSH1434 W/TP GAUGE	26X133
2"	2"	FNPT	208 gpm	Brass	ASSE 1017, CSA B125	Powers	2 LFMM435-1	15W078
	2"	NPT	201 gpm at 45 psi	Lead-Free Brass	CSA B125, ASSE 1017	Powers	LFSH1435 W/TP GAUGE	26X134


No. 15W075

Steam and Water Mixing Valves

LEONARD® WATER TEMPERATURE CONTROLS

- Max. pressure: 80 psi
- Temp. range: 65° to 140°F

Lead free thermostatic mixing to maintain output water temperature for industrial steam mixing applications. FNPT connections.

Inlet Size	Outlet Size	Flow Rate	Mfr. Model	Item No.
Chrome-Plated Lead Free Bronze				
¾"	¾"	27 gpm	TMS-25-CP	15Z016
¾"	1"	30 gpm	TMS-50-CP	15Z018
1"	1¼"	32 gpm	TMS-80-CP	15Z020
1¼"	1½"	60 gpm	TMS-150-CP	15Z022
Lead Free Rough Bronze				
¾"	¾"	27 gpm	TMS-25-RF	15Z017
¾"	1"	30 gpm	TMS-50-RF	15Z019
1"	1¼"	32 gpm	TMS-80-RF	15Z021
1¼"	1½"	60 gpm	TMS-150-RF	15Z023


No. 15Z017

Lead Free Hot Water Distribution Systems

LEONARD® WATER TEMPERATURE CONTROLS

TM Series (No. 29JA78): Single valve is highly responsive to temp. changes. Bi-metal thermostat.

XL Series: Single valve for high and low water flows. Wax thermostats with ball valve and dial thermometer.

LV Series: Single valve master mixing valve. Wax thermostat.

TM Hi-Lo System Series (Nos. 29JA79 to 29JA84): 2 valve system for low and high water demands. Bi-metal thermostat.

All models are ideal for industrial and commercial applications. Certified for use in potable water applications and meet ASSE 1017.

For Use With	Includes	Mfr. Model	Item No.
Rebuild Kits			
29JA68	Spring, Return, Thermostatic Elements, Spacer, Shuttle, Element Holder, O-Rings, Retaining Ring	KIT R/XL32	20RH45
29JA69		KIT R/XL82	20RH46
29JA70		KIT R/XL150	20RH47
29JA71		KIT R/XL200	20RH48
40PR85		KIT R/LV981	20RH49
29JA73		KIT R/LV982	20RH50
29JA74, 29JA75		KIT R/LV984	20RH51
29JA76		KIT R/LV985	20RH52
29JA77	Cover Gasket, Thermostatic Control Assembly	KIT R/M20	20RH53
29JA78		KIT R/28	20RH54
TM-50-AT-LF, TM-80-AT-LF	Flange, Port Sleeve, Nut, Pointer Rod, O-Ring, Coil Sleeve	KIT R/50	20RH55
TM-125-AT-LF, TM-150-AT-LF		KIT R/125	20RH56
29JA84		KIT R/200/N	20RH57
Mfr. No. TA-300	Stem O-ring, Port Sleeve Nut, Base Stud, Cover Gasket, Thermostatic Group, Port Sleeve Assembly and O-Rings	R/TA/M	34CU42
Mfr. No. TM-800	Port Sleeve Nut Assembly, Coil Sleeve Stud, Flange Packing, Pointer Rod With Gear, Rod O-Rings, Port Sleeve Assembly and Thermostatic Group	R/50M	34CU43


No. 29JA73

Inlet Size	Outlet Size	Inlet/ Outlet Type	Temp. Range	Mfr. Model	Item No.
¾"	¾"	Sweat	90° to 140°F	XL-32A-LF-BDT	29JA68
	¾"	Sweat	90° to 135°F	TM-26-LF-RF	29JA78
	¾"	Sweat	95° to 140°F	LV-981A-LF-RF	40PR85
	1"	NPT	60° to 200°F	TM-420B-LF-DT-RF	29JA79
	1"	NPT	60° to 200°F	TM-520B-LF-DT-RF	29JA80
1"	1¼"	NPT	95° to 135°F	XL-82-LF-BDT	29JA69
	1¼"	NPT	90° to 140°F	LV-982-LF-RF	29JA73
	1¼"	NPT	60° to 200°F	TM-820B-LF-DT-RF	29JA81
	1½"	NPT	95° to 135°F	XL-150-LF-BDT	29JA70
	1½"	NPT	95° to 135°F	LV-984-LF-RF	29JA75
1¼"	1½"	NPT	60° to 200°F	TM-1520B-LF-DT-RF	29JA83
	1¼"	NPT	95° to 135°F	LV-983-LF-RF	29JA74
	1¼"	NPT	60° to 200°F	TM-920B-LF-DT-RF	29JA82
	2"	NPT	60° to 200°F	TM-2020B-LF-DT-RF	29JA84
2"	2"	Sweat	90° to 135°F	XL-200-SW-LF-BDT	29JA71
	2"	Sweat	95° to 135°F	LV-985-SW-LF-RF	29JA76

Hose Stations and Accessories

LEONARD® WATER TEMPERATURE CONTROLS

Nos. 45K810 and 45K811 are specially designed for use with live steam and water, and have an automatic shutdown feature if cold water supply is interrupted. Nos. 45K812 and 45K813 feature a thermostatically controlled valve that helps to maintain a constant temperature. Nos. 45K816 and 45K823 are manually blended models that can handle both hot water or steam for blending. Hose stations are for use in dairy, food processing, manufacturing, and pharmaceutical plants and in other industrial washdown applications.

Pipe Size	Connec. Type	Max. Flow Rate	L	H	Temp. Range	Material	Finish	Mfr. Model	Item No.
Hose Stations									
¾"	FNPT x MGHT	6 gpm	10"	24½"	60° to 200°F	Bronze	Chrome	3800-VBD-CP	45K810
			10"	24½"		Bronze	Rough Bronze	3800-VBD-RF	45K811
			10"	25"		Lead Free Bronze	Chrome	SW-75-EVBD-CP	45K814
			10"	25"		Lead Free Bronze	Rough Bronze	SW-75-EVBD-RF	45K815
			14"	36"		Lead Free Bronze	Chrome	CW-75-VBD	45K816
			10"	25"		Stainless Steel	Stainless Steel	ST-75-LF-ED	45K823
		9 gpm	10"	28"		Bronze	Chrome	THS-25-VBD-CP	45K812
			10"	28"		Bronze	Rough Bronze	THS-25-VBD-RF	45K813
Adjustable Spray Hose Nozzles									
½"	FNPT		6"	—	60° to 180°F	Stainless Steel Body, Rubber Cover	—	N-2-SS	45K818
			6"	—		Bronze Body/Rubber Cover	—	N-2	45K817
Hoses									
¾"	MNPT x Swivel FGHT		25 ft.	—	60° to 180°F	EPDM and Steel Body/Brass Couplings	—	25 HDH	45K820
½"			50 ft.	—		EPDM and Steel Body/Brass Couplings	—	50 HDH	45K821
			75 ft.	—		EPDM and Steel Body/Brass Couplings	—	75 HDH	45K822


No. 45K810

No. 45K817

Float Valves

KECKLEY

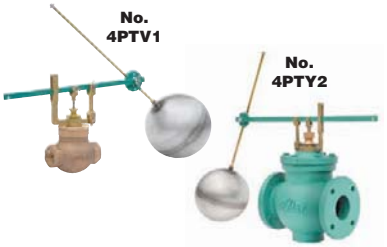
Automatically open or close when liquid reaches a predetermined level. Can be used for filling control (close on level rise) or drainage control (open on level rise), in an open or closed tank, storage tanks, cooling towers, and reservoirs. NPT connection. Float is 304 stainless steel construction.

Type 7—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, or neoprene. Max. temp.: 125°F, control of liquid supply to an open tank, where dead-end closing is not essential and where valve pressures are normal. Max. temp.: 406°F.

Type 77—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, neoprene, or leather. Angle pattern will have a bottom inlet/side outlet. Max. temp.: 125°F.

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 7, Single Seat, Dead End Service							
½"	6.5 gpm	130 psi	16"	7"	Bronze	4PTV7	4PTV1
¾"	6.5 gpm	130 psi	16"	7"	Bronze	4PTV8	4PTV2
1"	13 gpm	100 psi	16"	7"	Bronze	4PTV9	4PTV3
1¼"	19 gpm	80 psi	16"	7"	Bronze	4PTW1	4PTV4
1½"	30 gpm	65 psi	16"	7"	Bronze	4PTW2	4PTV5
2"	61 gpm	50 psi	16"	7"	Iron	4PTW3	4PTV6

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 27, Double Seat							
½"	1.5 gpm	150 psi	16"	7"	Bronze	4PTX3	4PTW4
½"	9.1 gpm	150 psi	16"	7"	Bronze	—	4PTW6
¾"	5.7 gpm	150 psi	16"	7"	Bronze	4PTX4	4PTW5
1"	9.1 gpm	150 psi	16"	7"	Bronze	4PTX5	—
1¼"	15 gpm	120 psi	16"	7"	Bronze	4PTX6	4PTW7
1½"	22 gpm	100 psi	16"	7"	Bronze	4PTX7	4PTW8
2"	53 gpm	75 psi	16"	7"	Iron	4PTX8	4PTW9
2½"	64 gpm	60 psi	18"	8"	Iron	4PTX9	4PTX1
3"	87 gpm	50 psi	18"	8"	Iron	4PTY1	4PTX2


No. 4PTV1

No. 4PTY2

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 77, Single Seat, Dead End Service							
2"	61 gpm	250 psi	16"	7"	Iron	4PTY5	4PTY2
2½"	95 gpm	250 psi	18"	8"	Iron	4PTY6	4PTY3
3"	95 gpm	250 psi	18"	8"	Iron	4PTY7	—
3"	133 gpm	250 psi	18"	8"	Iron	—	4PTY4

RMC™



No. 30UN50

Brass and Lead-Free Brass Float Valves

- Max. temp.: 180°F

Feature an adjustable arm that allows you to adjust water to the desired level and are suitable for a variety of agricultural and industrial uses. Nos. 30UN54, 30UN55, 48RJ98, 48RJ99, 48RK01 are suitable for use in high turbulence applications such as in car washes and cooling towers.

Size	Connec. Type	Rod Thread	Body Material	Mounting	Max. Pressure (psi)	Valve Flow - Press. (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Press. (2) (psi)	Valve Flow - Flow (2) (gpm)	Item No.
⅜ in	MNPT	¼ in -20	Brass	Bulkhead	125	65	11.5	85	13	**48RJ95** *
		¼ in -20	Brass	Pipe	125	65	11.5	85	13	**48RJ89**
		¼ in -20	Lead Free Brass	Pipe	125	65	11.5	85	13	**30UN50**
½ in		¼ in -20	Brass	Bulkhead	125	65	18	85	22	**48RJ93**
		¼ in -20	Brass	Bulkhead	125	65	18	85	22	**48RJ96** *
½ in NPT x ½ in NPT		¼ in -20	Brass	Pipe	125	65	18	85	22	**48RJ90**
		¼ in -20	Lead Free Brass	Pipe	125	65	18	85	22	**30UN51**
¾ in		¼ in -20	Brass	Bulkhead	100	65	32.5	85	40	**48RJ94**
		¼ in -20	Brass	Bulkhead	100	65	32.5	85	40	**48RJ97** *
		¼ in -20	Brass	Pipe	100	65	32.5	85	40	**48RJ91**
¾ in NPT x ¾ in NPT		¼ in -20	Brass/Plastic	Pipe	125	35	21	85	40	**23MJ93**
		¼ in -20	Lead Free Brass	Pipe	100	35	21	85	40	**30UN52**
1 ¼ in	FNPT	⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RJ98**
1 ½ in		⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RJ99**
		⅜ in -16	Lead Free Brass	Pipe	115	65	152	85	180	**30UN54**
1 in	MNPT	¼ in -20	Brass	Pipe	100	65	61	85	69	**48RJ92**
1 in NPT x 1 in NPT		¼ in -20	Brass/Plastic	Pipe	100	35	44	85	69	**23MJ94**
		¼ in -20	Lead Free Brass	Pipe	125	65	61	85	69	**30UN53**
2 in	FNPT	⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RK01**
		⅜ in -16	Lead Free Brass	Pipe	115	65	152	85	180	**30UN55**

**Include locknut and gasket.*



No. 2ZDN3



No. 46A987



No. 52WY27

GA GRAINGER APPROVED

WATTS REGULATOR

Bronze Float Valves

- Brass rod

These heavy-duty float valves are ideal for the reliable control of liquids in cooling towers, open tanks, reservoirs, or vats. Models feature a float arm that adjusts easily to control the water level. Nos. 52WY27 to 52WY54 include a float that can be set anywhere in a 360° circle around the valve body. Nos. 2ZDN3 to 2ZDN5 are bulkhead-mount and have a machined flange on inlet side with male straight pipe threading for locknut. Nos. 46A987 to 46A989 can be tank wall mounted.

Size	Rod Length	Rod Thread	Connec. Type	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Pressure (2) (psi)	Valve Flow - Flow (2) (gpm)	Brand	Item No.
Float Valve											
⅜"	10"	¼"-20	MNPT	125	180°F	35	9	85	13	GA	**471F70**
		¼"-20	NPSM	165		50	14	100	21	Watts	**2ZDN3** *
½"		¼"-20	MNPT	125		35	12	85	22	GA	**471F71**
		¼"-20	NPSM	165		50	20	100	31	Watts	**2ZDN4** *
¾"		¼"-20	MNPT	100		35	21	85	40	GA	**471F72**
		¼"-20	NPSM	165		50	40	100	60	Watts	**2ZDN5** *
1"		¼"-20	MNPT	100		35	44	85	69	GA	**471F73**
1¼"	12"	⅜"-16					112		180	GA	**471F74**
1½"		⅜"-16	FNPT	150			112		180	GA	**471F75**
2"		⅜"-16					112		180	GA	**471F76**
Float Valve with Threaded Outlet											
⅜"	10"	¼"-20	NPSM	125	180°F	50	14	100	21	Watts	**46A983**
½"		¼"-20	MNPT				20		31	Watts	**46A984**
¾"	12"	¼"-20	NPSM				40		60	Watts	**46A985**
1"		¼"-20	MNPT				100		150	Watts	**46A986**
Heavy Duty Float Valve											
1¼"		⅜"-16					250		348	Watts	**46A987**
1½"	12"	⅜"-16	FNPT	165	180°F	50	250	100	348	Watts	**46A988**
2"		⅜"-16					250		348	Watts	**46A989**

Size	Float Size	Rod Length	Rod Thread	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Brand	Item No.
Angle Float Valve with Threaded Outlet									
½"	5"	16"	¼" NPT	100	180°F	60	30	GA	**52WY27**
			¼" NPT		450°F			GA	**52WY41**
¾"			¼" NPT		180°F		50	GA	**52WY28**
			¼" NPT		450°F			GA	**52WY42**
1"			¼" NPT		180°F		75	GA	**52WY29**
			¼" NPT		450°F			GA	**52WY43**
1¼"	6"	18"	¼" NPT		180°F		100	GA	**52WY30**
			¼" NPT		450°F			GA	**52WY44**
1½"			¼" NPT		180°F		125	GA	**52WY31**
			¼" NPT		450°F			GA	**52WY45**
2"	8"	20"	¼" NPT	75	180°F		175	GA	**52WY32**
			¼" NPT		450°F			GA	**52WY46**
3"	9"	24"	⅜" NPT		180°F		400	GA	**52WY33**
			⅜" NPT		450°F			GA	**52WY47**
Globe Float Valve with Threaded Outlet									
½"	5"	16"	¼" NPT	100	180°F	60	30	GA	**52WY34**
			¼" NPT		450°F			GA	**52WY48**
¾"			¼" NPT		180°F		50	GA	**52WY35**
			¼" NPT		450°F			GA	**52WY49**
1"			¼" NPT		180°F		75	GA	**52WY36**
			¼" NPT		450°F			GA	**52WY50**
1¼"	6"	18"	¼" NPT		180°F		100	GA	**52WY37**
			¼" NPT		450°F			GA	**52WY51**
1½"			¼" NPT		180°F		125	GA	**52WY38**
			¼" NPT		450°F			GA	**52WY52**
2"	8"	20"	¼" NPT	75	180°F		175	GA	**52WY39**
			¼" NPT		450°F			GA	**52WY53**
3"	9"	24"	⅜" NPT		180°F		400	GA	**52WY40**
			⅜" NPT		450°F			GA	**52WY54**

** Include locknut and gasket.*



No. 23MJ69



No. 52WY60

RMC™

GA GRAINGER APPROVED

Stainless Steel Float Valves

- Stainless steel rod

High-capacity float valves are ideal for use with caustic fluids and in sanitary applications. Feature an adjustable short arm for customizing water level. Pipe mounting. Bob branded items are NSF compliant.

Size	Rod Thread	Connec. Type	Max. Pressure (psi)	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Pressure (2) (psi)	Valve Flow - Flow (2) (gpm)	Brand	PTFE Seal Max. Temp.	PTFE Seal Item No.	Viton Seal Max. Temp.	Viton Seal Item No.
Float Valve												
⅜"	¼"-20	FNPT	85	35	38	85	58	Bob	550°F	**23MJ74**	450°F	**23MJ71**
½"		FNPT			38		58	Bob	550°F	**23MJ72**	450°F	**23MJ69**
¾"		FNPT			38		58	Bob	550°F	**23MJ73**	450°F	**23MJ70**
		MNPT			38		58	Bob	550°F	**23MJ76**	450°F	**23MJ75**
1"		FNPT			53		71	Bob	550°F	**23MJ78**	450°F	**23MJ77**
1¼"	⅜"-16	FNPT	100		112		180	Bob	550°F	**23MJ83**	450°F	**23MJ80**
1½"		FNPT			112		180	Bob	550°F	**23MJ82**	450°F	**23MJ79**
2"		FNPT			112		180	Bob	550°F	**23MJ84**	450°F	**23MJ81**

Size	Float Size	Rod Length	Rod Thread	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Brand	PTFE Seal Item No.
Angle Float Valve with Threaded Outlet									
½"	5"	16"	⅛" NPT	100	450°F	60	30	GA	**52WY55**
¾"				100			50	GA	**52WY61**
1"	6"	18"	¼" NPT	100			75	GA	**52WY62**
1½"				100			100	GA	**52WY63**
2"	8"	20"	⅜" NPT	75			175	GA	**52WY64**
Globe Float Valve with Threaded Outlet									
½"	5"	16"	⅛" NPT	100	450°F	60	30	GA	**52WY60**
¾"				100			50	GA	**52WY56**
1"	6"	18"	¼" NPT	100			75	GA	**52WY57**
1½"				100			100	GA	**52WY58**
2"	8"	20"	⅜" NPT	75			175	GA	**52WY59**

PVC Float Valve Assemblies

KerickValve

- Max. pressure: 100 psi

BULKHEAD MOUNTING

MA models can be mounted vertically. M models have a 0.093" orifice with a free-flow outlet. Estimated flow rate of 1.3 gpm at 40 psi. Polyethylene float attached to valve.

BULKHEAD AND PIPE MOUNTING

Valves resist corrosion, have no diaphragms to clog, and are NSF-grade PVC. Seals are chemical-resistant, and hardware is 18-8 stainless steel to resist corrosion. Floats and rods sold separately on Grainger.com®.


No. 4DMD1


No. 4DMD7


No. 4DME5

Size	Length and Mounting Size	Connec. Type	Valve Flow - Pressure (1)	Valve Flow - Flow (1)	Mfr. Model	Item No.
Float Valve Kit, Bulkhead Mounting						
¼"	6 1/10" x 1"	MNPT	40 psi	1.3 gpm	M2S2	4DMD4
¼"	6 1/10" x 1"	Tube	40 psi	1.3 gpm	M252	4DMC9
¼"	7½" x 1"	Tube	40 psi	1.3 gpm	MA252	4DMD1
⅜"	6½" x 1"	MNPT	40 psi	1.3 gpm	MA3P2	4DMD6
⅜"	6½" x 1"	MNPT	40 psi	1.3 gpm	M3P2	4DMD5
½"	6 1/10" x 1"	MNPT	40 psi	1.3 gpm	M052	4DMD2
½"	7½" x 1"	MNPT	40 psi	1.3 gpm	MA052	4DMD3
Float Valve with Threaded Outlet, Bulkhead Mounting						
⅜"	—	MNPT	60 psi	7.2 gpm	PT3838187	4DMD7
½"	—	MNPT	60 psi	12.5 gpm	PT050525	4DMD8
¾"	—	MNPT	60 psi	17 gpm	PT75LS	4DME3
¾"	—	MNPT	60 psi	37 gpm	PT75SS	4DME1
1"	—	MNPT	60 psi	69 gpm	PT100SS	4DME4
Float Valve with Threaded Outlet, Pipe Mounting						
¾"	—	MNPT	60 psi	17 gpm	PS75LS	4DME2
¾"	—	MNPT	60 psi	37 gpm	PS75SS	4DMD9
1½"	—	MNPT	50 psi	145 gpm	PS150SS	4DME5

Hose Bibbs

GA GRAINGER APPROVED

QUARTER TURN AND LOOSE KEY

- Max. pressure: 125 psi CWP at 100°F, except Nos. 6GXC5 to 6GXC9 are 125 psi CWP
- Max. temp.: 180°F

Have chrome-plated brass ball, PTFE seats, and ¾" GHT connections. Nos. 6GXC5 to 6GXC9 meet NSF/ANSI 61-8, ANSI B1.20.1, B1.20.7, B16.18. No. 1APV8 is CSA Certified. No. 1APY1 meets ANSI/NSF 61-9.

VALVE LOCK

Protects hose bibbs from tampering and fits on most hose end valves. Zinc construction. Includes 2 keys and 1 serialized lock. For keyed-alike locks, call 1-800-GRAINGER (472-4643).


¼ Turn No. 6PDZ4


FaucetLock No. 6AJY0

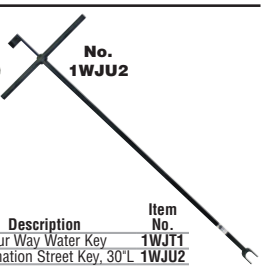
Design	Inlet Type	Handle Material	Inlet Size ½" Item No.	Inlet Size ¾" Item No.
Quarter Turn				
No Kink	FNPT	Aluminum	6PDZ5	6PDZ8
	FNPT	Zinc	1APY2	—
	MNPT	Zinc	—	1APY1
Standard	Solder Cup or MNPT	Aluminum	6PDZ6	6PDZ9
	MNPT	Aluminum	—	1APV8
	Solder Cup or MNPT	Aluminum	6PDZ4	6PDZ7
	Solder Cup or MNPT	Zinc	1APV7	—
Loose Key				
No Kink	FNPT	Chrome Plated	6GXC7	6GXC8
	MNPT	Chrome Plated	6GXC9	6GXC5

Description	Temp. Range	Size: ¾" Item No.
Valve Lock		
For Use with All Standard Thread Hoses	-20 to 203°F	6AJY0

GA GRAINGER APPROVED

Valve Stem and Street Keys


Water Key No. 1WJT1


No. 1WJU2

For use on water main valves. Steel construction. No. 1WJT1 is for use on ¼", 9/32", 5/16", and 11/32" square stems.

Description	Item No.
Four Way Water Key	1WJT1
Combination Street Key, 30°L	1WJU2


No. 1RLT9


No. 1RLT7


No. 1RLT3

GA GRAINGER APPROVED

Radiator Valves

- Max. pressure: 60 psi nonshock CWP; 15 psi SWP
- Temp. range: -40° to 350°F

For use in low-pressure steam or circulated hot water systems. Heavy-duty brass construction; threaded tailpiece. Angle and straight valves have heat-resistant handwheel.

Pipe Size	Material	Body Style	Item No.
Elbow and Tailpiece			
½"	Cast Brass		1RLT9
¾"	Forged Brass	Elbow	1RLU1
1"	Cast Brass		1RLU2
Radiator Valve			
½"	Cast Brass		1RLT2
½"	Forged Brass		1RLT7
¾"	Forged Brass		1RLT3
¾"	Forged Brass	Angle	1RLT8
1"	Cast Brass		1RLT4
1¼"	Cast Brass		1RLT5
1½"	Cast Brass		1RLT6

Heavy-Duty Float Balls

Copper—For use in water applications and open tank. Not for pressurized or high-temperature applications. Operating temp.: 50° to 180°F.

Plastic—Nonelectrolytic floats are highly corrosion-resistant. All injection-molded, polyethylene construction resists sunlight deterioration. Nos. 2ZDU6 and 2ZDU7 have 2 float balls attached together.

Polyethylene—Resist corrosion and sunlight deterioration. Nos. 4DMF5 to 4DMF9 are suitable for open tank service. No. 46C005 is unaffected by salts and caustic fluids. All models have a 100°F max. liquid temp., except No. 46C005 is 140°F.

Stainless Steel—Resist corrosion. Suitable for open and closed tank use, and high-pressure and high-temperature applications. Operating temp.: -30° to 225°F.

NAUGATUCK THE BEST SINCE 1895 · WATTS REGULATOR · GA GRAINGER APPROVED · RMC™ · KerickValve


Round, Plastic No. 2ZDU3


Rectangle, Polyethylene No. 4DMF5

Size	Connection	Thread Size	Brand	Item No.
Round				
Copper				
3" Dia.	External	¼-20"	Naugatuck	4LTN1
4" Dia.	Internal	¼"-20	Watts	2ZDT6
	External	¼-20"	Naugatuck	4LTN4
5" Dia.	Internal	¼"-20	Watts	2ZDT7
	Internal	¼"-20	GA	3FXF1
	External	¼"	Naugatuck	4LTN7
	External	¼-20"	Naugatuck	4LTN6
6" Dia.	Internal	¼"-20	Watts	4UV75
	Internal	¼"-20	GA	3FXE4
	Internal	5/16"-18	Watts	2ZDT8
	Internal	⅜"-16	Watts	2ZDT9
	External	¼-20"	Naugatuck	4LTN8
	External	5/16"-18"	Naugatuck	4LTN9
7" Dia.	Internal	¼" -20	GA	3FXF2
	Internal	5/16"-18	Watts	2ZDU1
	External	⅜"	Naugatuck	4LTP2
	External	5/16-18"	Naugatuck	4LTP1
	Internal	⅜"-16	Watts	4UV76
8" Dia.	External	⅜"	Naugatuck	4LTP4
	External	⅜-16"	Naugatuck	4LTP3
9" Dia.	External	⅜"	Naugatuck	4LTP5
10" Dia.	Internal	⅜"-16	Watts	4UV71
	External	⅜"	Naugatuck	4LTP7
	External	⅜-16"	Naugatuck	4LTP6
12" Dia.	Internal	⅜"-16	Watts	4UV72
	External	⅜"	Naugatuck	4LTP8
Plastic				
5" Dia.	Internal	¼"-20	GA	3FXE8
	Internal	¼"-20	Bob	453U35
6" Dia.	Internal	¼"-20	GA	3FXE2
	Internal	¼"-20	Watts	4UV73
	Internal	¼"-20	Bob	453U36
	Internal	5/16"-18	Watts	2ZDU3
	Internal	⅜"-16	Watts	2ZDU6 *
8" Dia.	Internal	¼"-20	Watts	2ZDU5
	Internal	¼"-20	Bob	453U37
	Internal	5/16"-18	Watts	2ZDU4
	Internal	⅜"-16	Watts	2ZDU7 *†
	Internal	⅜"-16	Watts	4UV74 †
	Internal	⅜"-16	GA	3FXE3

Size	Connection	Thread Size	Brand	Item No.
Polyethylene				
6" Dia.	Internal	¼"-20	Kerick	4DMF8
8" Dia.	Internal	5/16"-18	Kerick	4DMF9
Stainless Steel				
2" Dia.	Internal	¼-20"	Naugatuck	4LTG6
2¼" Dia.	Internal	¼"-20	Naugatuck	4LTH5
3" Dia.	Tubed	—	Naugatuck	4LTJ5
	Internal	¼"-20	Naugatuck	4LTH8
3½" Dia.	Internal	¼-20"	Naugatuck	4LTH9
	External	¼-20"	Naugatuck	4LTC1
4" Dia.	Tubed	—	Naugatuck	4LTJ7
	Internal	¼-20"	Naugatuck	4LTJ1
5" Dia.	Tubed	—	Naugatuck	4LTK3
	Internal	¼-20"	Naugatuck	4LTJ2
	External	¼"	Naugatuck	4LTC6
	External	¼-20"	Naugatuck	4LTC7
6" Dia.	Tubed	—	Naugatuck	4LTK6
	Internal	¼"-20	Naugatuck	415D16
	External	¼"	Naugatuck	4LTC8
	External	¼-20"	Naugatuck	4LTC9
7" Dia.	Tubed	—	Naugatuck	4LTL1
	External	⅜"	Naugatuck	4LTD2 †
	External	⅜"	Naugatuck	4LTD5 †
8" Dia.	Tubed	⅜"	Naugatuck	4LTL2
	Internal	⅜"-16	Naugatuck	415D17
	External	½"	Naugatuck	4LTE6
	External	¼"	Naugatuck	4LTE3
	External	⅜"	Naugatuck	4LTE4
	External	⅜-16"	Naugatuck	4LTE5
10" Dia.	Internal	⅜"-16	Naugatuck	415D18
	External	⅜"	Naugatuck	4LTF5
	External	⅜-16"	Naugatuck	4LTF8

Size	Connection	Thread Size	Brand	Item No.
Oblong				
Copper				
3" Dia. x 7" L	External	¼-20"	Naugatuck	4LTA5
4" Dia. x 5" L	Internal	¼"-20	Watts	2ZDT5
4" Dia. x 7" L	External	¼-20"	Naugatuck	4LTA7
Plastic				
4" Dia. x 5" L	Internal	¼"-20	Watts	2ZDU2
	Internal	¼"-20	Bob	453U34
Polyethylene				
4" Dia. x 5" L	Internal	¼"-20	Kerick	4DMF7
	Internal	⅜" and ¼"	Watts	46C005
Stainless Steel				
4" Dia. x 5" L	Internal	¼"-20	Naugatuck	415D14
	Internal	⅜"-16	Naugatuck	415D15
	External	¼-20"	Naugatuck	4LRZ7
4" Dia. x 6" L	External	¼-20"	Naugatuck	4LRZ8
	External	⅜-16"	Naugatuck	4LTA3
4" Dia. x 7" L	External	¼-20"	Naugatuck	4LRZ9
5" Dia. x 7" L	External	¼-20"	Naugatuck	4LTA1
	External	⅜-16"	Naugatuck	4LTA2
Square Polyethylene				
4"H x 4" L	Internal	¼"-20	Kerick	4DMF6
Rectangle Polyethylene				
2"H x 4" L	Internal	¼"-20	Kerick	4DMF5

** Double-float assembly. † No. 2ZDU7 is 3.27 oz., No. 4UV74 is 0.10 oz., No. 4LTD2 is 38.08 oz., No. 4LTD5 is 23.52 oz.*

Float Mat.	Rod Mat.	Float Size	Rod L	Valve Flow - Flow (1)	Valve Flow - Pressure (1)	Valve Flow - Flow (2)	Valve Flow - Pressure (2)	Brand	Item No.
Float Valve Kit									
Polyethylene	Brass	3 11/16"	5¾"	1.3 gpm	35 psi	2.3 gpm	85 psi	Bobby	453U33


No. 2ZWN4


No. 6CHV0

Roof and Yard Hydrants

▪ Outlet size: ¾" hose

Campbell, Frost Proof, Lead Free Yard Hydrants—Self-draining to prevent riser pipe and hydrant head freeze-up. Solid bucket hook and oversized head and handle with snap lock, 1-pc. Buna N plunger, handle-to-head padlock locators, and 7/16" steel rod in 1" galvanized riser pipe.

Woodford, Iowa® Frost Proof Yard Hydrants—Water flows even in subzero temps. and drains when water is shut off and hose removed. Large nitrate plunger for positive shutoff. Graphite packing. Adjustable lever lock tension. ⅜" galvanized steel pipe operating rod, and 1" galvanized steel pipe casing.

Inlet Size	Bury Depth	Overall Length	Rod Dia.	Max. Pressure	Max. Temp.	Mfr. Model	Item No.
Campbell, Frost Proof, Lead Free Yard Hydrants							
¾" FNPT	2 ft.	57"	7/16"	60 psi	—	YH-2LF	**2ZWN4**
	3 ft.	69"	7/16"	60 psi	—	YH-3LF	**2ZWN5**
	4 ft.	81"	7/16"	60 psi	—	YH-4LF	**2ZWN6**
Woodford, Iowa® Frost Proof Yard Hydrants							
¾" FNPT	2 ft.	60½"	7/16"	125 psi	120°F	Y34-2	**6CHV0**
	3 ft.	72½"	⅜"	125 psi	120°F	Y34-3	**6CHV1**
	4 ft.	84½"	⅜"	125 psi	120°F	Y34-4	**6CHV2**
	5 ft.	96½"	⅜"	125 psi	120°F	Y34-5	**6CHV3**
	6 ft.	108½"	⅜"	125 psi	120°F	Y34-6	**6CHV4**

Inlet Size	Overall Length	Rod Dia.	Max. Pressure	Max. Temp.	Mfr. Model	Item No.
Woodford, Frost Proof Roof Hydrants						
1" FNPT	48½"	⅜"	125 psi	120°F	RHY2-1-MS	**6CHX9**

Woodford, Frost Proof Roof Hydrant—Provides water for most types of roof equipment even in subzero temperatures. Hydrant drains when water is shut off, even with hose attached. Must be piped to drain location. Large nitrate plunger for positive shutoff. Graphite packing. Adjustable lever lock tension. Includes cast-iron roof support, flanges, mounting bolts, nuts, and washers. EPDM well seal boot seals tight between the hydrant support and hydrant pipe. Meets ASSE 1052.

Description	For Use With	Includes	Mfr. Model	Item No.
Woodford, Accessory				
Repair Kit	Mfr. No. Y34-2, Y34-3, Y34-4, Y34-5, Y34-6	Rod Stem 10104, Packing Nut 10100, Packing 10101, Support Washer 10102, Plunger 10105	RK-Y34	**6CHV5**

Backflow Protected Freezeless Wall Hydrants

Wall Thickness	Recommended Wall Opening	Mfr. Model	Item No.
Frostproof Wall Hydrant			
8.000"	2" x 3⅛"	65P-8	**6CHW7**
10"	2" x 3⅛"	65P-10	**6CHW8**
12"	2" x 3⅛"	65P-12	**6CHW9**
14"	2" x 3⅛"	65P-14	**6CHX0**
Close Coupled	2" x 3⅛"	65P-CC	**6CHX4**
Frostproof Enclosed Wall Hydrant			
8.000"	5½" x 6½"	B65P-8	**6CHX1**
12"	5½" x 6½"	B65P-12	**6CHX2**
14"	5¾" x 6⅜"	B65P-14	**6CHX3**
Enclosed Wall Hydrant			
Close Coupled	5½" x 6½"	B65P-CC	**6CHX5**


No. 6CHX1

▪ Max. pressure: 125 psi ▪ Max. temp.: 120°F

Commercial-grade wall hydrants are antisiphon vacuum breaker protected, and drain when shut off, even if hose is still attached. A 1-pc. valve plunger accurately controls both flow and drainage without the need for additional adjustments. Chrome-plated brass and copper construction. Solid brass operating rod. Hardened stainless steel stem resists damage. ¾" male hose thread. ¾" FPT pipe connection. Include tee to operate hydrant. Nos. 6CHX1 to 6CHX3 and 6CHX5 come with a chrome-plated brass box. All hydrants meet ASSE 1019 Type B, IAPMO listed.

Description	For Use With	Includes	Mfr. Model	Item No.
Accessories				
Tee Key 5/16"	Mfr. No. 65P-14, B65P-8, B65P-12, B65P-14, 65P-CC, B65P-CC	Tee Key 50010	50010 TEE KEY	**6CHX8**
Stem Lock	Woodford Models 65 and 67	Locking Nut, Cylinder Lock, 2 Keys, Tee Key	SL-65	**6CHZ0**
Repair Kit	Woodford Models 60/65/67 Chrome Commercial Wall Hydrants	Tee Key 50009, Head Nut 50264, Stem Washer 50252, Stem Screw 55062, C Washer 50251, Yoke Nut 51014, Plunger 50250	RK-65	**6CHY5**


No. 11N091


No. 2EET2

Water Gauges and Tubular Gage Glass and Rod Kits

▪ Water gauges: MNPT connection

STANDARD PATTERN
Provide liquid level verification for a wide variety of liquids.

HEAVY PATTERN
Have a heavier valve body pattern for higher service ratings.

AUTOMATIC
Ball checks restrain fluids in the event that the glass should break. No. 2EEU3 is CRN Registered.

TUBULAR GAGE GLASS AND ROD KITS
▪ Max. pressure: 400 psi
▪ Max. temp.: 300°

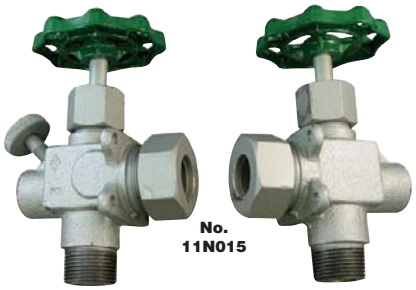
For use with gagecocks where liquid level monitoring is required. Red Line Glass allows easy viewing of fluid. Each kit includes 4 bronze rod guards and 1 borosilicate glass tube. Can be used with a variety of fluids in chemical, petrochemical, and processing applications. Meet ASME standards and boiler codes.

PENBERTHY

Center to Center Length	Plain Glass Rod Kit 5/8" Item No.	Plain Glass Rod Kit ¾" Item No.	Red Line Glass Rod Kit 5/8" Item No.	Red Line Glass Rod Kit ¾" Item No.
Tubular Gage Glass and Rod Kits, Penberthy				
8"	**11N041**	**11N021**	**11N080**	**11N061**
9"	**11N042**	**11N022**	**11N081**	**11N062**
10"	**11N043**	**11N023**	**11N082**	**11N063**
11"	**11N044**	**11N024**	**11N083**	**11N064**
12"	**11N045**	**11N025**	**11N084**	**11N065**
13"	**11N046**	**11N026**	**11N085**	**11N066**
14"	**11N047**	**11N027**	**11N086**	**11N067**
15"	**11N048**	**11N028**	**11N087**	**11N068**
16"	**11N049**	**11N029**	**11N088**	**11N069**
17"	**11N050**	**11N030**	—	—
18"	**11N051**	**11N031**	**11N089**	**11N070**
20"	**11N052**	**11N032**	**11N090**	**11N071**
22"	**11N053**	—	—	—
24"	—	**11N033**	**11N091**	**11N072**
26"	**11N054**	**11N034**	**11N092**	**11N073**
30"	**11N055**	**11N035**	**11N093**	**11N074**
36"	**11N056**	**11N036**	**11N094**	**11N075**
38"	**11N057**	**11N037**	**11N095**	**11N076**
40"	**11N058**	**11N038**	**11N096**	**11N077**
42"	**11N059**	**11N039**	**11N097**	**11N078**
48"	**11N060**	**11N040**	**11N098**	**11N079**

Pipe Size	Body Material	Max. Pressure†	Max. Temp.†	Glass Tube O.D.	Glass Length	No. of Guard Rods	Center to Center Length	Includes	Gaskets	Stem Packing	Brand	Item No.
Standard Pattern Water Gauges												
⅜"	Bronze	300 psig at 100°F	350°F	5/8"	10"	2	11¼"	Needle Drain Valve	EPDM	—	Apollo	**2EER7** *
	Bronze	300 psig at 100°F	350°F	⅜"	10"	2	11¼"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET1**
½"	Bronze	125 psig at 350°F	350°F	⅜"	12"	2	13¼"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET2**
	Bronze	125 psig at 350°F	350°F	⅜"	12"	2	13¼"	Needle Drain Valve and Ball Check Valves	EPDM	TFE	Apollo	**2EET4** **
	Bronze	125 psig at 350°F	350°F	⅜"	12"	2	13¼"	Needle Drain Valve and Ball Check Valves	EPDM	TFE	Apollo	**2EET5** ††
	Bronze	125 psig at 350°F	350°F	⅜"	12"	2	13¼"	Needle Drain Valve	EPDM	—	Apollo	**2EET3** ††
	Bronze	300 psig at 100°F	350°F	⅜"	12"	2	13¼"	Needle Drain Valve	EPDM	—	Apollo	**2EER8** *
	Stainless Steel	250 psig at 406°F	350°F	⅜"	12"	2	14"	Shutoff Valve and Drain Valve	TFE with Hypalon	—	Apollo	**2EER9** * **
	Stainless Steel	500 psig at 450°F	450°F	⅜"	12"	4	14"	Drain Valve with Safety Handle	TFE with Hypalon	—	Apollo	**2EEV4** **
Heavy Pattern Water Gauges												
½"	Bronze	200 psig at 400°F	400°F	⅜"	12"	2	13¼"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET6** **
	Bronze	200 psig at 400°F	400°F	⅜"	12"	2	13¼"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET7** ††
	Bronze	200 psig at 400°F	400°F	⅜"	12"	2	13¼"	Ball Check Valves	EPDM	TFE	Apollo	**2EEU1** **
	Bronze	200 psig at 400°F	400°F	⅜"	12"	2	13¼"	Ball Check Valves	EPDM	TFE	Apollo	**2EEU2** ††
¾"	Bronze	200 psig at 400°F	400°F	¾"	16"	2	17½"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET8** **
	Bronze	200 psig at 400°F	400°F	¾"	16"	2	17½"	Needle Drain Valve	EPDM	TFE	Apollo	**2EET9** ††
Automatic Water Gauges												
½"	Bronze	400 psig at 100°F	400°F	⅜"	12"	4	14"	Needle Drain Valve In Lower Arm, Ball Check	EPDM	TFE	Apollo	**2EEU5**
	Bronze	400 psig at 100°F	400°F	⅜"	12"	4	14"	Needle Drain Valve In Lower Arm	EPDM	—	Apollo	**2EEU7** **
	Bronze	400 psig at 100°F	400°F	⅜"	12"	4	14"	Needle Drain Valve In Lower Arm	EPDM	—	Apollo	**2EEU8** ††
	Bronze	500 psig at 100°F	400°F	⅜"	12"	4	14"	Ball Checks In Upper and Lower Arms	TFE with Hypalon	TFE with ARAMID	Apollo	**2EEU3**
	Bronze	500 psig at 100°F	400°F	⅜"	12"	4	14"	Ball Checks In Upper and Lower Arms	TFE with Hypalon	—	Apollo	**2EEU4** ††
	Stainless Steel	500 psig at 450°F	400°F	⅜"	12"	4	14"	Ball Drain Valve with Safety Handle	TFE with Hypalon	—	Apollo	**2EEV5** ††

Expansion tank gauge. † Pressure/temp. ratings are subject to the limitation of gauge glass length. ** Aluminum wheel. †† Plastic composition wheel.



PENBERTHY

Straight Pattern Gagecocks

- -20° to 500°F
- ⅜" FNPT drain connection
- MNPT vessel connection

For use where liquid level monitoring is required (use with Tubular Gage Glass and Rod Kits sold on page 2912). Gagecocks have an automatic ball-check shutoff that helps prevent rapid loss of fluid from accidental glass breakage. Needle drain valve, integral bonnet, and drain cock construction. Rigid vessel and stuffing box gage connections. 3½" max. height. For use with a variety of fluids in heavy/light industrial, municipal, petrochemical, and utility applications. Meet ASTM.

Gauge Connection	Vessel Connection Size	Max. Pressure	Handle Material	Body Material	Item No.
⅝" OD Glass	½"	200 psi @ 100°F	Steel	Bronze	11N015
		490 psi @ 100°F	Steel	Steel	11N017
		500 psi @ 100°F	Stainless Steel	Stainless Steel	11N019
¾" OD Glass	¾"	400 psi @ 100°F	Steel	Bronze	11N016
		490 psi @ 100°F	Steel	Steel	11N018
		500 psi @ 100°F	Stainless Steel	Stainless Steel	11N020





PLAST-O-MATIC VALVES, INC.

Gauge Guards

- Max. pressure: 250 psi
- Vacuum pressure: 30" HG
- Accuracy: ±3%

Protect pressure or vacuum instruments and help reduce instrument failures and system down time. Feature a durable and flexible diaphragm that serves as a protective barrier between the process fluid and instrument. FNPT connection.

Gauge Port (F) NPT (in.)	Diaphragm Material	Max. Temp.	Item No.
PVC Body			
¼	PTFE	140°F	39E373
	Viton	140°F	39E374
½	PTFE	140°F	39E375
	Viton	140°F	39E376
Polypropylene Body			
¼	Buna-N	180°F	39E381
	PTFE	180°F	39E377
	Viton	180°F	39E378
	Viton	180°F	39E382
½	PTFE	180°F	39E379
	Viton	180°F	39E380

Dwyer®

Sight Flow Indicators

- Max. pressure: 125 psig
- Temp. range: 32° to 200°F

Feature a rotating impeller and removable tempered glass window to ease maintenance. Buna-N and fiber seals. FNPT connections.



Pipe Size	Sight Dia.	Overall Length	Bronze Body Item No.	316 Stainless Steel Body Item No.
Single Window				
¼"	1 21/32"	3"	21XL59	
⅜"	1 21/32"	3"	21XL60	
½"	2 1/32"	4"	21XL61	
¾"	2 1/32"	4"	21XL62	
1"	2 1/32"	4 3/8"	21XL63	
1 1/4"	2 1/32"	4 3/8"	21XL64	
1 1/2"	2 15/16"	5 11/16"	21XL65	
2"	2 15/16"	5 11/16"	21XL66	
Double Window				
¼"	1 21/32"	3"	21XL67	21XL75
⅜"	1 21/32"	3"	21XL68	21XL76
½"	2 1/32"	4"	21XL69	21XL77
¾"	2 1/32"	4"	21XL70	21XL78
1"	2 1/32"	4 3/8"	21XL71	21XL79
1 1/4"	2 1/32"	4 3/8"	21XL72	21XL80
1 1/2"	2 15/16"	5 11/16"	21XL73	21XL81
2"	2 15/16"	5 11/16"	21XL74	21XL82

Lead-Free Water Hammer Arrestors

WATTS REGULATOR

- Max. pressure: 150 psi
- Temp. range: 33° to 180°F

Control water pressure shock and prevent water hammer conditions. Install in new or existing plumbing systems at any angle. Ideal in dishwashers, clothes washers, and quick-closing faucets. Certified for use in potable water applications. Nos. 5DMD8 to 5DME1 and 11Y819 to 11Y822 are IAPMO Listed.





Pipe Size	Connec. Type	Dia.	Overall Height	Mfr. Model	Item No.
⅜"	MNPT	1¼"	5¼"	⅜ LF 05 (NPT)	5DMD8
½"	MNPT	1⅛"	5 15/16"	LF15M2-A	26X569
	MNPT	4 13/32"	4 5/16"	LF150A	26X567
¾" x ¾" x ½"	GHT x GHT X NPT	1¼"	4 5/16"	LF150HA	26X568
¾"	Hose	2"	6⅜"	¾ LF 05 H M1 (Hose)	5DME1
	MNPT	1⅜"	8 9/16"	¾ LF15M2-B	11Y819
	MNPT	1⅝"	8 13/16"	1 LF15M2-C	11Y820
1"	MNPT	2⅛"	9 15/16"	1 LF15M2-D	11Y821
	MNPT	2⅛"	12 11/16"	1 LF15M2-E	11Y822
	MNPT	2⅝"	11 13/32"	LF15M2-F	26X570

GA GRAINGER APPROVED

Parker EATON

Brass Saddle Valves and Needle Valves





SADDLE VALVES

- Temp. range: -30° to 250°F

Provide a water supply for humidifiers, refrigerators, automatic ice makers, and similar applications. Valves come complete with fittings for ¼" O.D. copper tubing or ¼" O.D. plastic tubing, brass tubing inserts, and instructions. Brass valve, stainless steel pin.

Self-Piercing—Easily installed on ⅜" to 1⅜" O.D. copper tubing. Not for iron pipe.

Self-Piercing Kit—Quick and easy to use. Includes 25 ft. of ¼" O.D. polyethylene tubing, saddle valve, and brass adapters and inserts.

Nonself-Piercing—Installed on ½" or ¾" galvanized water pipe by drilling ¼" hole in pipe, installing pilot tube, and tightening.

NEEDLE VALVES

- Max. pressure: 150 psi
- Temp. range: 0° to 250°F, except Parker brand valves are -45° to 250°F

For use in hydraulic and pneumatic systems. Designed for automotive and industrial applications. Standard style, brass construction with steel handles. Valves come complete with nuts and sleeves. Parker brand valves feature metal-to-metal seats with fine thread screw down.

Description	Brand	Item No.
Saddle Valves		
Self-Piercing Saddle Valve	GA	4GU27
Nonself-Piercing Saddle Valve	GA	4GU26

Tube Size	Connection	Max. Height	L	Brand	Item No.
Needle Valves, Straight					
¼"	Compression to Compression	1½"	1 13/32"	Parker	21VL55
⅜"	Compression x Compression	1 5/16"	1½"	Eaton	1VPV2
¼"	Female Pipe to Male Pipe	1⅜"	1 9/16"	Parker	21VL63

Pipe Size	Fitting Style	Connection	Max. Height	L	Brand	Item No.
Needle Valves						
⅛" x ¼"	Angled	Compression to Male Pipe	1½"	1 35/64"	Parker	21VL52
	Angled	Compression x MNPT	1 13/16"	13/16"	GA	6MM63
	Straight	Compression to Male Pipe	1½"	1 13/32"	Parker	21VL57
	Straight	Compression x MNPT	1½"	1½"	GA	6MM61
⅛"	Straight	Female Pipe to Female Pipe	1½"	1 11/32"	Parker	21VL64
	Straight	FNPT x FNPT	1 39/64"	1¼"	GA	6MN29
	Straight	FNPT x MNPT	1 5/16"	1¼"	GA	6MN31
	Straight	FNPT x MNPT	1½"	1 23/64"	Parker	21VL62
	Straight	Male Pipe to Male Pipe	1½"	1 11/32"	Parker	21VL60
¼" x ⅛"	Angled	Flare to Male Pipe	1½"	1 37/64"	Parker	21VL46
¼"	Angled	Compression to Male Pipe	1⅜"	1 51/64"	Parker	21VL53
	Straight	Compression to Male Pipe	1½"	1 13/32"	Parker	21VL58
	Straight	Compression x MNPT	1 13/32"	1 39/64"	GA	6MM62
	Straight	Double Compression	1 5/16"	1 13/16"	GA	6MM66
	Straight	Female Pipe to Female Pipe	1⅜"	1 11/32"	Parker	21VL65
	Straight	Flare to Flare	1½"	1 11/32"	Parker	21VL48
	Straight	Flare to Male Pipe	1½"	1 21/64"	Parker	21VL50
	Straight	FNPT x FNPT	1 13/16"	1 53/64"	GA	6MN30
	Straight	FNPT x MNPT	1 55/64"	1⅞"	GA	6MN32
	Straight	Male Pipe to Male Pipe	1⅜"	1 35/64"	Parker	21VL61
	Straight	MNPT	1 15/64"	1⅜"	Eaton	1VPW3
⅜" x ¼"	Angled	Flare to Male Pipe	1⅜"	1 55/64"	Parker	21VL47
⅜"	Angled	Compression to Male Pipe	1⅜"	1-46/64"	Parker	21VL54
	Straight	Compression to Compression	1⅜"	1 35/64"	Parker	21VL56
	Straight	Compression to Male Pipe	1⅜"	1 9/16"	Parker	21VL59



No. 1VPY3



No. 6D910

ANDERSON FITTINGS

Seat Drain Cocks

All feature sturdy brass construction.

INTERNAL SEAT POSITION

Designed for automotive or industrial use. Not intended for natural gas, LPG, or nuclear applications.

EXTERNAL SEAT POSITION

Used on air compressor receivers, condensate separators, radiators, and many other similar applications.

MNPT X HOSE, NOS. 1VPY5 TO 1VPZ1

Angled body style and ideal for venting or draining air and water.

ANGLE BODY STYLE

Designed for automotive and similar industrial water-handling applications. Hand tighten for leak-free connection.

Seat Position	Pipe Size	Connec. Type	Max. Pressure	Temp. Range	Overall Height	Item No.
Angle Body Style						
Internal	⅛"	MNPT	150 psi	-65° to 250°F	1⅛"	1VPY3
	¼"	MNPT	150 psi	-65° to 250°F	1¾"	1VPY4
	⅜"	MNPT x Hose	150 psi	-65° to 250°F	2⅞"	1VPY5
		MNPT x Hose	150 psi	-65° to 250°F	2⅞"	1VPY6
		MNPT x Hose	150 psi	-65° to 250°F	2 5⁄16"	1VPY7
		MNPT x Hose	150 psi	-65° to 250°F	2 5⁄16"	1VPY8
		MNPT x Hose	150 psi	-65° to 250°F	3"	1VPY9
	½"	MNPT x Hose	150 psi	-65° to 250°F	3⅛"	1VPZ1
Inline Body Style						
External	⅛"	MNPT	200 psi	0° to 200°F	⅞"	6D909
	¼"	MNPT	150 psi	-65° to 250°F	1 9⁄16"	1VPX5
		MNPT	200 psi	0° to 200°F	1"	6D910
	⅜"	MNPT	200 psi	0° to 200°F	1 5⁄16"	6D911
	½"	MNPT	200 psi	0° to 200°F	1½"	6D912
Internal	⅛"	MNPT	150 psi	-65° to 250°F	1 5⁄32"	1VPX6
		MNPT	150 psi	-65° to 250°F	1⅝"	1VPY2
	¼"	MNPT	150 psi	-65° to 250°F	1 9⁄16"	1VPX7
	⅜"	MNPT	150 psi	-65° to 250°F	1 11⁄32"	1VPX9
Long Inline Body Style						
Internal	⅛"	MNPT	150 psi	-65° to 250°F	1¾"	1VPY1
Straight Body Style						
Internal	¼"	MNPT	150 psi	-65° to 250°F	1 9⁄16"	1VPZ2



Lever Handle No. 2EEY6



Tee Handle No. 2EEW6



Flat Head Handle No. 2EEX6

Apollo Valves

Bronze Gas Cocks

- Temp. range: 32° to 125°F

Valves are designed for shutoff service in residential and commercial applications to isolate gas appliances. Can be used with natural and manufactured gases. Accepted for use in New York Department of Buildings MEA 45-90-M.

½ PSIG

Meet ANSI Z21.15.CSA 9.1 requirements of ½ psig.

Pipe Size	Overall Length	Connec. Type	BtuH	Max. Pressure 200 psig Item No.	Max. Pressure ½ psig Item No.
Lever Handle					
⅛" x ⅛"	1 3⁄16"	FNPT x MNPT	—	2EEY6	—
¼" x ¼"	1 9⁄16"	FNPT x MNPT	—	2EEY7	—
⅜" x ⅜"	2 3⁄16"	FNPT x SAE	56,500	—	2EEZ1
⅜" x ⅜"	2 3⁄32"	FNPT x MNPT	—	2EEY8	—
⅜" x ⅛"	2 21⁄32"	FNPT x MNPT	56,500	—	2EEY9
½" x ½"	2½"	FNPT x FNPT	800,000	—	2EEV6
¾" x ¾"	2 13⁄16"	FNPT x FNPT	1,310,000	—	2EEV7
1" x 1"	3 15⁄16"	FNPT x FNPT	2,100,000	—	2EEV8
1¼" x 1¼"	3 21⁄32"	FNPT x FNPT	3,250,000	—	2EEV9
1½" x 1½"	4⅜"	FNPT x FNPT	3,700,000	—	2EEW2
2" x 2"	5 1⁄16"	FNPT x FNPT	7,300,000	—	2EEW3
2" x 2"	5 1⁄16"	FNPT x FNPT	7,300,000	—	2EEW4
2½" x 2½"	5⅞"	FNPT x FNPT	7,800,000	—	2EEW5
Tee Handle					
¼" x ¼"	1⅞"	FNPT x FNPT	117,000	—	2EEW6
¼" x ¼"	1 31⁄32"	FNPT x MNPT	—	—	2EEZ2
⅜" x ⅜"	1 13⁄16"	FNPT x FNPT	274,000	—	2EEW8
½" x ½"	1⅞"	FNPT x FNPT	274,000	—	2EEW7
½" x ½"	2 1⁄16"	FNPT x FNPT	274,600	—	2EEW9

Pipe Size	Overall Length	Connec. Type	Max. Pressure 125 psig Item No.
Flat Head Handle			
¼" x ¼"	2 1⁄16"	FNPT x FNPT	2EEX6
½" x ½"	2 1⁄16"	FNPT x FNPT	2EEX7
¾" x ¾"	2 3⁄16"	FNPT x FNPT	2EEX8
1" x 1"	2 3⁄16"	FNPT x FNPT	2EEX9
Lever Handle			
¼" x ¼"	1 21⁄32"	FNPT x FNPT	2EEY1
⅜" x ⅜"	1 21⁄32"	FNPT x FNPT	2EEY2
½" x ½"	2 1⁄16"	FNPT x FNPT	2EEY3
¾" x ¾"	2 3⁄16"	FNPT x FNPT	2EEY4
1" x 1"	2 3⁄16"	FNPT x FNPT	2EEY5
Tee Handle			
¼" x ¼"	1 21⁄32"	FNPT x FNPT	2EEX1
⅜" x ⅜"	1 21⁄32"	FNPT x FNPT	2EEX2
½" x ½"	2 1⁄16"	FNPT x FNPT	2EEX3
¾" x ¾"	2 5⁄16"	FNPT x FNPT	2EEX4
1" x 1"	2 9⁄16"	FNPT x FNPT	2EEX5

Brass Ground Plug Valves

Parker

GA GRAINGER APPROVED

- Max. pressure: 30 psi
- Temp. range: -65° to 250°F, except Parker valves are 32° to 125°F

Ideal for use in automotive and industrial applications. GA valves feature a universal lubricant satisfactory for most common fluids. All Parker valves are manufactured from forged bodies or castings for greater strength.









Pipe Size	Overall Height	GA, MNPT x FNPT Item No.
⅛"	1⅞"	1VRA6
¼"	1⅞"	1VRA7
¼"	1 13⁄16"	1VRA8
¼"	2¼"	1VRA9

Pipe Size	Parker, Threaded Item No.
¼"	21VL66
⅛"	21VL67
¼"	21VL68

Tube Size	Overall Length	GA, Flare Item No.
¼"	1⅞"	1VPZ3
5⁄16"	1⅞"	1VPZ4
⅜"	2"	1VPZ5

Tube Size	Overall Length	GA, Compression Item No.
¼"	2⅛"	1VPZ7
¼"	2 3⁄16"	1VRA2
¼"	2 3⁄16"	1VRA1
5⁄16"	2 3⁄16"	1VRA3
5⁄16"	2 3⁄16"	1VPZ8
5⁄16"	2¼"	1VRA4
⅜"	2¼"	1VPZ9
⅜"	2⅜"	1VRA5

Apollo Valves

Brass Air Shutoff Stopcocks

Economical way to shut off compressed air lines.



No. 2GMU3



No. 2EFD1



No. 2EFD6



No. 2EFE7

Pipe Size	Connec. Type	Handle Type	Max. Pressure	Temp. Range	Nut Bottom Item No.	Spring Bottom Item No.
⅛"	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	2GMU3	—
	FNPT x FNPT	Tee	80 psig	-20° to 500°F	—	2EFD1
	MNPT Round Shoulder x FNPT	Lever	80 psig	-20° to 500°F	—	2EFF4
	MNPT Round Shoulder x FNPT	Lever	200 psig	-20° to 500°F	2EFF8	—
	MNPT Round Shoulder x Straight Nose	Lever	80 psig	-20° to 500°F	—	2EEZ9
	MNPT x FNPT	Lever	80 psig	-20° to 500°F	—	2EFG4
¼"	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Lever	80 psig	-20° to 500°F	—	2GMT9
	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Tee	80 psig	-20° to 500°F	—	2GMT5
	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Tee	200 psig	-20° to 500°F	2GMT7	—
	FNPT x FNPT	Lever	80 psig	-20° to 500°F	—	2EFE7
	FNPT x FNPT	Lever	200 psig	-20° to 500°F	2EFF2	—
	FNPT x FNPT	Tee	80 psig	-20° to 500°F	—	2EFD2
	FNPT x FNPT	Tee	200 psig	-20° to 500°F	2EFD6	—
	MNPT Hexagon Shoulder x Bibb Nose	Lever	80 psig	-20° to 500°F	—	2EFC5
	MNPT Hexagon Shoulder x Bibb Nose	Lever	200 psig	-20° to 500°F	2EFC9	—
	MNPT Hexagon Shoulder x MNPT	Lever	80 psig	-20° to 500°F	—	2EFA7
	MNPT Hexagon Shoulder x MNPT	Lever	200 psig	-20° to 500°F	2EFA9	—
	MNPT Hexagon Shoulder x Straight Nose	Lever	200 psig	-20° to 500°F	2GMV3	—
	MNPT Round Shoulder x FNPT	Lever	80 psig	-20° to 500°F	—	2EFF5
	MNPT x FNPT	Tee	80 psig	-20° to 500°F	—	2EFE1
	MNPT x FNPT	Tee	200 psig	-20° to 500°F	2EFE5	—
	MNPT x FNPT Hexagon Shoulder	Lever	80 psig	-20° to 500°F	—	2EFG5
	MNPT x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	2EFF9	—
	MNPT x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	2GMT2	—
⅜"	FNPT x FNPT	Lever	80 psig	-20° to 500°F	—	2EFE8
	MNPT x FNPT	Tee	80 psig	-20° to 500°F	—	2EFE2
½"	MNPT Hexagon Shoulder x Straight Nose	Lever	80 psig	-20° to 500°F	—	2EFA3

Dayton airmaster Fans

Light-Duty Industrial Pedestal Fans

- Ball Bearings
- OSHA-compliant wire guards

These fans cool light manufacturing areas, warehouses, and other dry, clean spaces.

DAYTON®

Fan heads have locking tilt adjustment for directional air flow.

Foldable Pedestal—Fan head unfolds into upright position. Fully assembled fans feature pedestal with 2½" dia. plastic wheels for roll-about portability.

Quiet-Design—Provides high-velocity air flow in quiet settings such as schools, libraries, churches, offices, or other quiet environments. Adjustable-height pedestal included.

AIRMASTER

Adjustable-height pedestal included.


No. 2LY96


No. 2LBA5


No. 22YK15

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	Height Adjustment	Cord Length	Assembly Req.	Brand	Mfr. Model	Item No.
Non-Oscillating														
18"	2	2460/3480 CFM	120VAC	⅓	1100/950	1.8/1.4	OPAO	65"	52 to 65"	9 ft	Yes	Dayton	6ALE6	**6ALE6**
20"	2	8662/9183 CFM	120VAC	⅙	1200/1000	2.0/1.5	OPAO	75"	57 to 75"	9 ft	Yes	Dayton	2LY96	**2LY96**
24"	2	3800/5450 CFM	120VAC	¼	1100/900	2.9/2.0	OPAO	77"	60 to 77"	9 ft	Yes	Dayton	2LY97B	**2LY97**
	3	2460/3460/4400 CFM	115VAC	¼	—	—	TEAO	96"	—	—	—	Airmaster Fan	CA24APE	**46Z424**
30"	2	4650/7250 CFM	120VAC	¼	1100/900	2.9/1.9	OPAO	79"	61 to 79"	9 ft	Yes	Dayton	1RWB5	**1RWB5**
	3	2700/4400/6100 CFM	115VAC	¼	—	—	TEAO	96"	—	—	—	Airmaster Fan	CA30APE	**2LBA5**
Foldable Pedestal														
24"	2	3800/5450 CFM	120VAC	¼	1100/900	2.9/1.9	OPAO	71¾"	Fixed Height	9 ft	No	Dayton	22YK16	**22YK16**
30"	2	4650/7250 CFM	120VAC	¼	1100/900	2.9/1.9	OPAO	74¼"	Fixed Height	9 ft	No	Dayton	22YK18	**22YK18**
Oscillating														
18"	2	4000/5700 CFM	120VAC	⅓	1100/925	2.0/1.5	TEAO	67"	52" to 67"	9 ft	Yes	Dayton	13V398	**13V398**
20"	2	5100/6200 CFM	120VAC	⅓	1100/925	2.0/1.6	TEAO	74"	60" to 74"	9 ft	Yes	Dayton	13V399	**13V399**
24"	2	3510/6400 CFM	115VAC	¼	1100/850	2.8/2.1	TEAO	74½"	59 to 74½"	10 ft	Yes	Dayton	6ALE8	**6ALE8**
	3	2460/3460/4400 CFM	115VAC	⅓	—	—	TEAO	96"	—	—	—	Airmaster Fan	CA24OAP	**20LP84**
30"	2	7260/8200 CFM	115VAC	½	1100/850	4.2/3.5	TEAO	77"	62" to 77"	10 ft	Yes	Dayton	6ALE9	**6ALE9**
	3	2700/4400/6100 CFM	115VAC	⅓	—	—	TEAO	96"	—	—	—	Airmaster Fan	CA30OAP	**22UK97**
Foldable Pedestal														
24"	2	3480/6360 CFM	120VAC	¼	1100/900	2.8/1.6	TEAO	71¾"	Fixed Height	9 ft	No	Dayton	22YK15	**22YK15**
30"	2	7200/8130 CFM	120VAC	¼	1100/900	2.8/1.6	TEAO	74¼"	Fixed Height	9 ft	No	Dayton	22YK17	**22YK17**
Quiet-Design														
24"	3	2280/4320/5030 CFM	115VAC	¼	1025/880/480	2.0/1.6/0.6	TEAO	81"	—	10 ft	Yes	Dayton	2RDZ6	**2RDZ6**
30"	3	3450/6090/7450 CFM	115VAC	¼	1010/860/530	2.2/1.6/0.6	TEAO	78"	—	10 ft	Yes	Dayton	2RDZ7	**2RDZ7**

Dayton BIG ASS FANS airmaster Fans SCHAEFER

Standard-Duty Industrial Pedestal Fans

- OSHA-compliant wire guards

Used to cool heavy manufacturing areas and other dusty or dirty environments.

DAYTON®

- Ball bearings

Include mounting hardware.

Quiet-Design—Provides high-velocity air flow in quiet settings such as schools, libraries, churches, offices, or other quiet environments. Adjustable-height pedestal included.

BIG ASS FANS®

Nos. 326VG2, 326VG7, and 326VH2 feature an occupancy sensor.

AIRMASTER FAN

- Ball bearings

SCHAEFER

- Sealed ball bearings

Include mobile cart with 8" pneumatic casters.


No. 326VG2


No. 7DD03


No. 4ARJ7

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	Cord Length	Assembly Req.	Brand	Mfr. Model	Item No.
Non-Oscillating													
18"	2	2900/4500 CFM	115VAC	¼	1075/700	1.7/1.6	TEAO	23"	10 ft	No	Dayton	7DC93	**7DC93**
	2	3055/4700 CFM	115VAC	¼	1075	0.94/0.66	TEAO	23"	10 ft	No	Dayton	7DC97	**7DC97**
20"	Variable	—	120VAC	21/64	1220	4.6	TEAO	69½"	—	Yes	Big Ass Fans	F-AE1-2001L11S34	**326VF9**
	Variable	—	120VAC	21/64	1220	4.6	TEAO	69½"	—	Yes	Big Ass Fans	F-AE1-2001L11S34V56	**326VG2**
	2	3800/6100 CFM	115VAC	⅓	1075	3.38/2.29	TEAO	27"	10 ft	No	Dayton	7DD01	**7DD01**
24"	3	2820/4020/5520 CFM	115VAC	⅓	—	—	TEAO	88½"	—	—	Airmaster Fan	UPI-24PA2A	**15E706**
	Variable	—	120VAC	21/64	1290	4.8	TEAO	72⅜"	—	Yes	Big Ass Fans	F-AE1-2401L11S34	**326VG4**
	Variable	—	120VAC	⅓	1290	4.8	TEAO	72⅜"	—	Yes	Big Ass Fans	F-AE1-2401L11S34V56	**326VG7**
	2	8712/9704 CFM	115VAC	½	1075	3.70/3.12	TEAO	33"	10 ft	No	Dayton	7DD05	**7DD05**
	3	3415/5300/7185 CFM	115VAC	⅓	—	—	TEAO	60 to 92"	—	—	Airmaster Fan	UPI-30PA2A	**15E708**
30"	Variable	—	120VAC	⅓	1280	4.9	TEAO	75 23/32"	—	Yes	Big Ass Fans	F-AE1-3001L11S34	**326VG9**
	Variable	—	120VAC	⅓	1280	4.9	TEAO	75 23/32"	—	Yes	Big Ass Fans	F-AE1-3001L11S34V56	**326VH2**
	Variable	—	110-125VAC	½	1317	7.9-10.5	ODP	—	10 ft	Yes	Big Ass Fans	MP-YJ1-031018S34	**744H98**
Quiet-Design													
18"	3	1805/2113/2600 CFM	115VAC	⅕	1125	1.41	TEAO	Adj 60 to 71"	15 ft	Yes	Dayton	4PRW3	**4PRW3**
20"	3	1657/2060/3100 CFM	115VAC	⅕	1120	1.65	TEAO	Adj 60 to 71"	15 ft	Yes	Dayton	4PRV8	**4PRV8**
24"	3	3325/4556/5588 CFM	115VAC	⅓	1110/900/700	2.5	TEAO	Adj 60 to 96"	15 ft	Yes	Dayton	2WCG4	**2WCG4**
30"	3	4463/6259/8402 CFM	115VAC	⅓	1098/880/660	2.6	TEAO	Adj 60 to 96"	15 ft	Yes	Dayton	2WCF9	**2WCF9**
Oscillating													
18"	2	2900/4500 CFM	115VAC	¼	1075/700	1.7/1.6	TEAO	23"	10 ft	No	Dayton	7DC95	**7DC95**
20"	2	3055/4700 CFM	115VAC	¼	1075	2.25/0.51	TEAO	23"	10 ft	No	Dayton	7DC99	**7DC99**
24"	2	4460/6400 CFM	115VAC	½	1075/600	4.65/3.31	TEAO	27"	10 ft	No	Dayton	7DD03	**7DD03**
	3	2820/4020/5520 CFM	115VAC	⅓	—	—	TEAO	88½"	—	—	Airmaster Fan	I-24-OAP	**15E710**
30"	2	8674/9612 CFM	115VAC	½	1075/600	4.06/2.61	TEAO	33"	10 ft	No	Dayton	7DD07	**7DD07**
	3	3415/5300/7185 CFM	115VAC	⅓	—	—	TEAO	60" to 96"	—	—	Airmaster Fan	I-30-OAP	**15E712**
36"	1	11,700 CFM	115/230VAC	½	825	7/3.5	TEAO	75"	5 ft	Yes	Schaefer	VKO36-B-O	**4ARJ7**
	1	11,700 CFM	115/230VAC	½	825	7/3.5	TEAO	75"	5 ft	No	Schaefer	VKO36-O	**4ARK8**
Quiet-Design													
18"	3	1805/2113/2600 CFM	115VAC	⅕	1125	1.41	TEAO	Adj 60 to 71"	15 ft	Yes	Dayton	4PRW1	**4PRW1**
20"	3	1657/2060/3100 CFM	115VAC	⅕	1120	1.65	TEAO	Adj 60 to 71"	15 ft	Yes	Dayton	4PRV6	**4PRV6**
24"	3	3125/4356/5387 CFM	115VAC	⅓	1070/850/628	2.5	TEAO	Adj 60 to 96"	15 ft	Yes	Dayton	2WCG6	**2WCG6**
30"	3	4063/5859/7996 CFM	115VAC	⅓	1045/789/561	2.9	TEAO	Adj 60 to 96"	15 ft	Yes	Dayton	2WCG2	**2WCG2**



High-Visibility Industrial Pedestal Fans

Dayton

- Non-Oscillating
- 115VAC
- Totally enclosed motors
- Ball bearings
- OSHA-compliant wire guards

Safety-yellow finish attracts attention to help prevent accidental damage to the fan. Pedestal adjusts from 41½" to 59". Fans include an extension cord (15 ft. for No. 7DJ29 and 14 ft. for No. 7DJ33) and a 3-position drop cord switch.

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Cord Length	Assembly Req.	Item No.
24"	2	3800/6100 CFM	⅓	1075/750	3.28/2.29	2 ft	Yes	**7DJ29**
30"	2	8712/9375 CFM	½	1075/750	3.7/3.12	2 ft	Yes	**7DJ33**



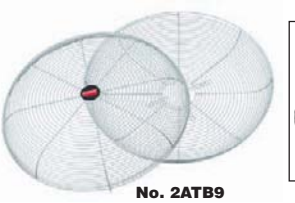
Industrial Pedestal Washdown Fans

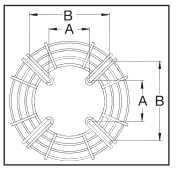
Dayton

- Non-Oscillating
- Totally enclosed non-ventilated motors
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Can be hosed off or pressure washed during cleaning in areas that require regular washdowns. Secondary safety cable included.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Amps	H	Height Adjustment	Assembly Req.	Item No.
20"	1	2670 CFM	115VAC	1/15	1.1	22½"	Fixed Height	Yes	**216NV2**
24"	1	5220 CFM	115/230VAC	¼	1.7/3.3	33"	Fixed Height	Yes	**216NV3**
30"	1	8800 CFM	115/230VAC	⅓	1.9/3.7	33"	Fixed Height	Yes	**216NV4**





Guards for Industrial Cooling Fans

Dayton

- OSHA-compliant polyester powder-coated wire guards

Replacement guards that enclose fan blades to protect them from damage and prevent injuries from accidental contact. Guards mount to thru-bolts on yoke-mounted or rigid-base motors. Rear section of guard has 4 mounting slots to accommodate motor thru-bolts.

Note: Cradle-type motors cannot be used.

Guard Dia.	Fits Fan Blade Dia.	Color	Mounting Slot O.C. A	Mounting Slot O.C. B	For Use With	Item No.
19 in	16 in	Gray	2 1/16 in	4 in	48" Frame Motors	**2ATB6**
21 in	18 in		2 ¾ in	4 ½ in	48 & 56 Frame Motors	**2ATB7**
23 in	20 in					**2ATB8**
27 in	24 in					**2ATB9**
33 in	30 in					**2ATC1**
39 in	36 in					**2ATC2**
33 in	30 in	Yellow			1VCH4, 1VCH5	**1VCH7**





Industrial Pedestal Misting Fans

VersaMist Dayton

- Non-Oscillating
- 115VAC
- Totally enclosed air-over motors
- OSHA-compliant wire guards

Feature a misting hub that connects to a water source for adding moisture to the air for rapid cooling.

Versa-Mist—No. 4ARK3 has 10 gal. reservoir for up to 5 hr. of run time. No. 4ARK4 has 14 gal. reservoir for up to 7 hr. of run time and includes integrated wheels and handle.

- Sealed ball bearings

Dayton®—Fans include pedestal and mounting hardware.

- Ball bearings

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	H	Height Adjustment	Cord Length	Assembly Req.	Brand	Item No.
Versa-Mist, Industrial											
18"	3	1400/1800/2200 CFM	1/10	1000/1400/1570	1.5/1.3/1	42"	—	25 ft	Yes	Versa-Mist	**4ARK3**
	3	1400/1800/2200 CFM	1/10	1000/1400/1570	1.5/1.3/1	Adj 53 to 72"	—	25 ft	Yes	Versa-Mist	**4ARK4**
Dayton, Standard Duty											
20"	2	3080/4750 CFM	¼	1100/850	1.4/2.0	23"	41½" to 59"	10 ft.	Yes	Dayton	**216NT4**
24"	2	3850/6200 CFM	⅓	1100/850	3.0/3.6	27"	41½" to 59"	10 ft.	Yes	Dayton	**216NT5**
30"	2	8800/9800 CFM	½	1100/850	3.3/4.2	33"	41½" to 59"	10 ft.	Yes	Dayton	**216NT6**





















Dayton

Industrial Fan Accessories

For more industrial fan accessories, go to Grainger.com®.

Description	For Use With	Includes	Item No.
Pedestals for Industrial Fans			
Open Pedestal Base, Adjustable 41½" to 58½"	Dayton Yoke-Mounted Fan Heads, Up Through 30"	Assembly Hardware	**1ZCP4**
Pedestal Base, Base Dia. 27", Adjustable 41½" to 59"	Dayton Yoke-Mounted Fan Heads, Up Through 30"	Assembly Hardware	**1ZCP2**
Pedestal Base, Base Dia. 27", Adjustable 41½" to 59", Safety Yellow	1VCH4, 1VCH5	Assembly Hardware	**1ZCP3**
Pedestal Base, Base Dia. 33½", Open Base, Stainless Steel	1XUA1, 2LYW6, 2LYW5, 2LYW4, 22UK95	—	**7DF09**
Wheel Kit for Industrial Fans			
Closed Base, Galvanized	1ZCP2D, 1ZCP3D	Wheels, Brackets, Mounting Hardware	**40PR87**
Misting Kit for Industrial Fans			
Misting Hub Kit	1VCE7, 1VCE8, 1VCE9, 1VCF6, 1VCF7, 1VCF8, 1VCG3, 1VCG4, 1VCG5, 1VCG6, 1ZCN7, 1ZCN8, 3PEG9	Misting Ring, (6) Nozzles, (3) Plugs, 12 ft. Tubing, Hose Adapter, Shutoff Valve and Washer, In-Line Filter Screen and Washer, Nylon Zip Ties and Mounting Hardware	**44ZE09**
Mounting Brackets for Industrial Fans			
Ceiling/Wall/Post, Gray	Dayton Yoke-Mounted Fan Heads up to 30". Not Intended for Greenhouse or Oscillating Fans when Ceiling Mounted	Secondary Safety Support Cable	**1ZCP6**
Heavy Duty, Ceiling/Wall/Post, Gray	Dayton Yoke-Mounted Fan Heads up to 36". Not Intended for Greenhouse or Oscillating Fans when Ceiling Mounted	Secondary Safety Support Cable	**3PEH3**
Rafter or I-Beam, Gray	Dayton Yoke-Mounted Non-Oscillating Fan Heads Up Through 30". Not intended to be used with Greenhouse or Oscillating Fans.	Secondary Safety Support Cable	**1ZCP7**
I-Beam or Column, Gray	Dayton Yoke-Mounted Non-Oscillating Fan Heads Up Through 30". Not intended to be used with Greenhouse or Oscillating Fans.	Secondary Safety Support Cable	**1ZCP8**
Switches for Industrial Fans			
Drop Cord Rocker Switch, 2-Speed, 3-Position, Yellow	1VCH4, 1VCH5	—	**1VCH6**
Pull Chain Switch	Dayton 6ALE8D, 6ALE9D, 6ALF0D, 6ALF1D, 13F045D, 1VCE7D, 1VCE8D, 1VCE9D, 3PEG9D, 13F047D, 1VCF2D, 1VCF3D, 1VCF4D	3.5" Chain, Silver Knurled Nut, 90° Elbow, Extension String, Washers	**34G191**

Dayton

Standard-Duty Industrial Fan Heads

- Totally enclosed motors
- Ball bearings
- OSHA-compliant wire guards

Provide cooling in heavy manufacturing areas and other dusty or dirty environments. Fan heads tilt and lock to direct airflow. 115VAC units feature a pull chain switch and 10-ft. 3-cond. power cord; others are hardwired. 208VAC and 277VAC fans reduce amp draw and can be wired with industrial lighting systems.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Phase	Motor HP	RPM	Amps	Includes	Item No.
Non-Oscillating									
18 in	2	2950/4550 CFM	115V AC	1	¼ hp	1100/850	2.0/1.4	Mounting Bolts	13F045
20 in	2	3080/4750 CFM	115V AC	1	¼ hp	1100/850	2.0/1.4	Mounting Bolts	1VCE7
24 in	1	6000 CFM	208-230/460V AC	3	½ hp	1100	2.2-2.2/1.1	Mounting Bolts, Conduit Box	1VCG7
	1	6050 CFM	208V AC	1	½ hp	1100	2.3	Conduit Box, Mounting Device, Mounting Bolts, Secondary Safety Support Cable	1VCG3
	1	6050 CFM	277V AC	1	½ hp	1100	1.8	Conduit Box, Mounting Device, Mounting Bolts, Secondary Safety Support Cable	1VCG4
	2	3850/6200 CFM	115V AC	1	⅓ hp	1100/850	3.6/3.0	Mounting Bolts	1VCE8
30 in	1	9450 CFM	208-230/460V AC	3	½ hp	1100	2.2-2.2/1.1	Mounting Bolts, Conduit Box	1VCG8
	1	9450 CFM	277V AC	1	½ hp	1100	1.8	Conduit Box, Mounting Device, Mounting Bolts, Secondary Safety Support Cable	1VCG6
	1	9450 CFM	208V AC	1	½ hp	1100	2.3	Mounting Bolts, Secondary Safety Support Cable	1VCG5
	2	8800/9800 CFM	115V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	1VCE9
Oscillating									
18 in	2	2950/4550 CFM	115V AC	1	¼ hp	1100/850	2/1.4	Mounting Bolts	13F047
20 in	2	3080/4750 CFM	115V AC	1	¼ hp	1100/850	2/1.4	Mounting Bolts	1VCF2
24 in	2	4500/6450 CFM	115V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	1VCF3
30 in	2	8800/9800 CFM	115V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	1VCF4


No. 13F045


No. 13F047

High-Temperature Industrial Fan Heads

Dayton

- Non-oscillating
- Ball bearings
- Hardwired
- Max. ambient temp.: 140°F
- OSHA-compliant wire guards

Provide a reliable source of cooling in high ambient temperatures that could burn out fan heads rated for standard temperatures. Fan heads include conduit box and mounting bolts.


No. 4VAC3

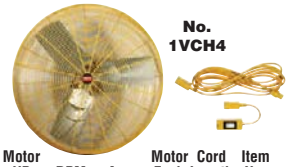
Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Item No.
20"	1	4700 CFM	115VAC	¼	1100	2.8	TEAO	4VAC3
	1	5500 CFM	115/230VAC	½	1670	5.2/2.6	TEAO	4VAC6
24"	1	6400 CFM	115VAC	⅓	1100	3.6	TEAO	4VAC4
	1	7100 CFM	115/230VAC	½	1670	5.2/2.6	TEAO	4VAC7
30"	1	8900 CFM	115VAC	½	1100	4.2	TEAO	4VAC5

High-Visibility Industrial Fan Heads

Dayton

- Non-Oscillating
- Ball bearings
- 115VAC
- OSHA-compliant wire guards

Have a safety-yellow finish that attracts attention to help avoid accidental damage to the fan. Include a 15 ft. extension cord and a 3-position drop cord switch.


No. 1VCH4

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Cord Length	Item No.
24"	2	3800/6100 CFM	⅓	1100/850	3.6/3.0	TEAO	10 ft	1VCH4
30"	2	8750/9400 CFM	½	1100/850	4.2/3.3	TEAO	10 ft	1VCH5

Industrial Misting Fan Heads

Dayton

- Non-Oscillating
- 115VAC
- Ball bearings
- OSHA-compliant wire guards

Feature misting hub kit No. 44ZE09 (see Grainger.com® for kit contents). Misting hub connects to a water source for adding moisture to the air for rapid cooling.


No. 7DY63

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Cord Length	Item No.
20"	2	3055/4700 CFM	¼	1075	0.94/0.66	TEAO	10 ft	7DY63
24"	2	3800/6100 CFM	⅓	1075	3.38/2.29	TEAO	10 ft	7DY64
30"	2	8712/9704 CFM	½	1075	3.7/3.12	TEAO	10 ft	7DY65

Corrosion-Resistant Industrial Fan Heads

Multifan

- Non-oscillating
- Sealed ball bearings
- Variable speed controllable
- Hardwired
- OSHA-compliant wire guards

These fan heads withstand exposure to water and moisture to allow operation in wet or humid areas without damage to the fan. Indoor uses include regulating temperature in greenhouses to optimize plant growth and ventilating livestock buildings to prevent heat stress in animals and reduce the buildup of moisture, manure gases, pathogens, and dust. Outdoor uses include cooling people in pool areas and other high-moisture locations. Optional controls and steel mounting brackets are sold separately.

Blade Dia.	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	BLACK POWDER COATED Item No.	PLASTIC COATED WHITE Item No.	WALL MOUNT BRACKETS Item No.	CEILING MOUNT BRACKETS Item No.
Fan Heads										
20 in	5500 CFM	115VAC	⅓	1750	3.8	TEAO	44ZC79	1DGY7	1DGZ1	1DGZ3
		240VAC	⅓	1750	2	TEAO	44ZC75	1DGY6	1DGZ1	1DGZ3
24 in	8000 CFM	115VAC	⅓	1750	3.8	TEAO	44ZC74	1DGY5	1DGZ1	1DGZ3
		240VAC	⅓	1750	2	TEAO	44ZC85	1DGY4	1DGZ1	1DGZ3
30 in	10,000 CFM	115VAC	½	1000	6.7	TEAO	44ZC81	1DGY9	1DGZ2	1DGZ4
		240VAC	½	1000	3.1	TEAO	44ZC87	1DGY8	1DGZ2	1DGZ4
36 in	12,000 CFM	115VAC	½	780	6.3	TEAO	—	1DGY3	1DGZ2	1DGZ4
		240VAC	½	770	3.2	TEAO	—	1DGY2	1DGZ2	1DGZ4

Item	Voltage	Max. Amps	Mfr. Model	Item No.
Speed Controls				
Speed Control	120/240	10	VFMVS-1S	1DGZ5
Speed & Temp. Control	120/240	10	VFSA-10S	1DGZ6


No. 1DGY6

High-Velocity Industrial Fan Heads

PATTERSON
THE AUTHORITY IN AIR MOVEMENT

- Non-oscillating
- Ball bearings
- OSHA-compliant wire guards

Have a high-rpm motor and a tubular housing for pushing air at higher speeds over longer distances than fan heads with a standard open-grill design. 1-phase fans have 12-ft. power cord; 3-phase fans are hardwired.

Mounting Yokes and Brackets—For ceiling-mount only, yoke is required without additional mounting bracket. For floor, wall, or dock mounting positions, additional mounting bracket is needed along with yoke. Assembly hardware included. Brackets sold separately on Grainger.com®.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Phase	RPM	Amps	Motor Encl.	Mfr. Model	FAN ONLY Item No.	REQUIRED MOUNTING YOKE Item No.
14"	1	2600 CFM	115/208-230VAC	¼	1	1725	2.8/1.4-1.4	TEAO	HIP14A-CS	482V92	6ALH0
	1	2600 CFM	208-230/460VAC	¼	3	1725	1.5-1.4/0.75	TEAO	HIP14B-CS	482V93	6ALH0
18"	1	3800 CFM	115/208-230VAC	½	1	1725	6.0/3.0-2.9	TEAO	HIP18A-CS	482V94	6ALH1
	1	3800 CFM	208-230/460VAC	½	3	1725	2.4-2.3/1.2	TEAO	HIP18B-CS	482V95	6ALH1
22"	1	5570 CFM	115/208-230VAC	½	1	1725	6.0/3.0-2.9	TEAO	HIP22A-CS	482V96	6ALH2
	1	5570 CFM	208-230/460VAC	½	3	1725	2.4-2.3/1.2	TEAO	HIP22B-CS	482V97	6ALH2
26"	1	7650 CFM	115/220VAC	1	1	1725	13.4/6.8-6.7	TEFC	H26A-CS	6ALF8	6ALH3
	1	7650 CFM	230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	H26B-CS	6ALF9	6ALH3
30"	1	12,000 CFM	115/220VAC	1	1	1725	13.4/6.8-6.7	TEFC	H30A-CS	6ALG0	6ALH4
	1	12,000 CFM	230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	H30B-CS	6ALG1	6ALH4
34"	1	17,000 CFM	230/460VAC	3	3	1165	9.9-9.2/4.6	TEAO	H34B-CS	6ALG2	6ALH5


No. 482V96


No. 6ALH2



No. 1RWB4



No. 2LBA6



No. 2RDZ9

Light-Duty Industrial Wall-Mount Fans

- Ball Bearings
- Unassembled
- OSHA-compliant wire guards

Fans cool light manufacturing areas, warehouses, and other dry, clean spaces where floor space is limited.

Dayton®—Fan heads feature locking tilt adjustment for directional air flow. Bracket and secondary safety support cable included.

Dayton® Quiet Design—Provide high-velocity air flow in quiet settings such as schools, libraries, churches, offices, or other quiet environments. Bracket and secondary safety support cable included.

Airmaster—Nos. 2HYH1 through 2HYH3 feature pull chain speed switch and yoke mount which attaches to any surface with 1 bolt or lag screw. Other models include mounting bracket and safety cable kit.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Brand	Mfr. Model	Item No.
Non-Oscillating												
12"	3	1300/1550/1855 CFM	115VAC	1/16	1500	0.5	ODP	Ceiling, Wall	8 ft	Airmaster Fan	I-12YM	**2HYH1**
18"	2	2460/3480 CFM	120VAC	1/3	1100/950	1.8/1.4	OPAO	Wall	9 ft	Dayton	6ALE7	**6ALE7**
	3	3346/3824/4550 CFM	115VAC	1/8	1600	1.65	ODP	Ceiling, Wall	8 ft	Airmaster Fan	I-18YM	**2HYH2**
20"	2	2600/3700 CFM	120VAC	1/8	1200/1000	2.0/1.5	OPAO	Ceiling, Wall	9 ft	Dayton	2LY99	**2LY99**
	3	4387/5020/5950 CFM	115VAC	1/3	—	—	ODP	Ceiling, Wall	—	Airmaster Fan	I-20YM	**2HYH3**
24"	2	3800/5450 CFM	120VAC	1/4	1100/950	2.9/2.0	OPAO	Ceiling, Wall	9 ft	Dayton	2MA10	**2MA10**
	3	2460/3460/4400 CFM	115VAC	1/4	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	CA24WC	**46Z423**
30"	2	4650/7250 CFM	120VAC	1/4	1100/900	2.9/1.9	OPAO	Ceiling, Wall	9 ft	Dayton	1RWB4	**1RWB4**
	3	2700/4400/6100 CFM	115VAC	1/4	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	CA30WC	**2LBA6**
Oscillating												
18"	2	4000/5700 CFM	120VAC	1/3	1100/925	2.0/1.5	TEAO	Wall	9 ft	Dayton	13V401	**13V401**
20"	2	5100/6200 CFM	120VAC	1/3	1100/925	2.0/1.6	TEAO	Wall	9 ft	Dayton	13V402	**13V402**
24"	2	3510/6400 CFM	115VAC	1/4	1100/850	2.8/2.1	TEAO	Wall	10 ft	Dayton	6ALF0	**6ALF0**
	3	2460/3460/4400 CFM	115VAC	1/3	1100	3.2	TEAO	Wall	15 ft	Airmaster Fan	CA24OW	**22UK96**
30"	2	7260/8200 CFM	115VAC	1/2	1100/850	4.2/3.5	TEAO	Wall	10 ft	Dayton	6ALF1	**6ALF1**
	3	2700/4400/6100 CFM	115VAC	1/3	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	CA30OW	**46Z425**
Quiet-Design												
24"	3	2280/4320/5030 CFM	115VAC	1/4	1025/880/480	2.0/1.6/0.6	TEAO	Wall	10 ft	Dayton	2RDZ8	**2RDZ8**
30"	3	3450/6090/7450 CFM	115VAC	1/4	1010/860/530	2.2/1.6/0.6	TEAO	Wall	10 ft	Dayton	2RDZ9	**2RDZ9**



No. 6ALD4



No. 7DD02



No. 744H99



No. 2WCG3

Standard-Duty Industrial Wall-Mount Fans

Fans cool heavy manufacturing areas and other dusty or dirty environments with limited floor space.

Schaefer—Designed for agriculture, horticulture or industrial applications. Wall-mount units include mounting bracket.
- Ball bearings
- Zinc plated wire guards

Big Ass Fans®—Nos. 55FF65 and 55FF67 have 360° rotation and 40° tilt. No. 744H99 features an EC motor and 360° rotation. No. 326VG8 has an IP65 EC motor and an occupancy sensor.
- OSHA-compliant guards, except No. 55FF68

Dayton®—Fan heads feature locking tilt adjustment for directional air flow. 115VAC models include 3-cond. power cord; others are hardwired. Bracket and secondary safety support cable included.
- Ball bearings
- OSHA-compliant wire guards

Dayton® Quiet Design—Designed to provide high-velocity air flow in quiet settings such as schools, libraries, churches, offices, or other quiet environments. Bracket and secondary safety support cable included.

Airmaster Fan—Fans include a mounting bracket and secondary safety support cable kit.
- OSHA-compliant wire guards

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Brand	Mfr. Model	Item No.
Non-Oscillating												
12"	Variable	1470 CFM	115/230VAC	1/10	1725	1.3/0.65	TEAO	Wall	5 ft	Schaefer	GVK12	**6ALD4**
18"	1	—	115VAC	1/3	—	—	—	Wall	—	Big Ass Fans	F-SB1-0101L13S34	**55FF65**
20"	2	3055/4700 CFM	115VAC	1/4	1075	0.94/0.66	TEAO	Wall	10 ft	Dayton	7DC98	**7DC98**
	Variable	5470 CFM	115/230VAC	1/3	1725	3.8/1.9	TEAO	Wall	5 ft	Schaefer	GVK20	**6ALD5**
24"	1	6000 CFM	208-230/460VAC	1/2	—	1.1/2.2	TEAO	Ceiling, Post, Wall	—	Dayton	216NU3	**216NU3**
	1	6050 CFM	208VAC	1/2	—	2.3	TEAO	Ceiling, Post, Wall	—	Dayton	216NU1	**216NU1**
	1	6050 CFM	277VAC	1/2	—	1.8	TEAO	Ceiling, Post, Wall	—	Dayton	216NU2	**216NU2**
	2	3800/6100 CFM	115VAC	1/3	1075	3.38/2.29	TEAO	Wall	10 ft	Dayton	7DD02	**7DD02**
	3	2820/4020/5520 CFM	115VAC	1/3	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	I-24W2A	**15E707**
	Variable	7860 CFM	115/230VAC	1/2	1725	4.8/2.4	TEAO	Wall	5 ft	Schaefer	GVK24	**6ALD6**
30"	1	9450 CFM	208-230/460VAC	1/2	—	1.1/2.2	TEAO	Ceiling, Post, Wall	—	Dayton	216NU6	**216NU6**
	1	9450 CFM	208VAC	1/2	—	2.3	TEAO	Ceiling, Post, Wall	—	Dayton	216NU4	**216NU4**
	1	9450 CFM	277VAC	1/2	—	1.8	TEAO	Ceiling, Post, Wall	—	Dayton	216NU5	**216NU5**
	1	—	240VAC/480VAC	1	—	—	—	Wall	—	Big Ass Fans	F-SB1-0215L13S34	**55FF67**
	2	8712/9704 CFM	115VAC	1/2	1075	3.70/3.12	TEAO	Wall	10 ft	Dayton	7DD06	**7DD06**
	3	3415/5300/7185 CFM	115VAC	1/3	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	I-30W2A	**15E709**
	Variable	—	110-125VAC		1317	7.9-10.5	ODP	IBeam, Wall	10 ft	Big Ass Fans	F-YJ1-0310L13S34	**744H99**
	Variable	—	120VAC	1/3	1280	4.9	TEAO	Wall	—	Big Ass Fans	F-AE1-3001L13S34	**326VG8**
36"	1	11,400 CFM	115/230VAC	1/2	825	7/3.5	TEAO	Wall	5 ft	Schaefer	GVK36	**6ALD8**
	1	11,690 CFM	115/230VAC	1/2	825	7/3.5	TEAO	Ceiling	5 ft	Schaefer	GVKC36	**6ALE0**
	1	12,600 CFM	208-230/460VAC	1/2	1100	2.2-2.2/1.1	TEAO	Ceiling, Post, Wall	No Cord	Dayton	3PEH2	**3PEH2**
	2	8100/12,600 CFM	115VAC	1/2	1100/850	4.2/3.9	TEAO	Ceiling, Post, Wall	10 ft	Dayton	3PEG9	**3PEG9**
72"	Variable	—	115VAC	1/2	—	—	—	Ceiling	—	Big Ass Fans	F-PV2-0601S34	**55FF68**
Quiet-Design												
18"	3	1805/2113/2600 CFM	115VAC	1/3	1125	1.41	TEAO	Wall	15 ft	Dayton	4PRW4	**4PRW4**
20"	3	1657/2060/3100 CFM	115VAC	1/3	1120	1.65	TEAO	Wall	15 ft	Dayton	4PRV9	**4PRV9**
24"	3	3325/4556/5588 CFM	115VAC	1/3	1110/900/700	2.5	TEAO	Wall	15 ft	Dayton	2WCG5	**2WCG5**
30"	3	4463/6259/8402 CFM	115VAC	1/3	1098/880/660	2.6	TEAO	Wall	15 ft	Dayton	2WCG1	**2WCG1**
Oscillating												
18"	2	2900/4500 CFM	115VAC	1/4	1075/700	1.7/1.6	TEAO	Wall	10 ft	Dayton	7DC96	**7DC96**
20"	2	3055/4700 CFM	115VAC	1/4	1075	2.25/0.51	TEAO	Wall	10 ft	Dayton	7DD00	**7DD00**
24"	2	4460/6400 CFM	115VAC	1/2	1075/600	4.65/3.31	TEAO	Wall	10 ft	Dayton	7DD04	**7DD04**
	3	2820/4020/5520 CFM	115VAC	1/3	—	—	TEAO	Wall	—	Airmaster Fan	I-24-OIW	**15E711**
30"	2	8674/9612 CFM	115VAC	1/2	1075/600	4.06/2.61	TEAO	Wall	10 ft	Dayton	7DD08	**7DD08**
	3	3415/5300/7185 CFM	115VAC	1/3	—	—	TEAO	Wall	—	Airmaster Fan	I-30-OIW	**15E713**
Quiet-Design												
18"	3	1805/2113/2600 CFM	115VAC	1/3	1125	1.41	TEAO	Wall	15 ft	Dayton	4PRW2	**4PRW2**
20"	3	1657/2060/3100 CFM	115VAC	1/3	1120	1.65	TEAO	Wall	15 ft	Dayton	4PRV7	**4PRV7**
24"	3	3125/4356/5387 CFM	115VAC	1/3	1070/850/628	2.5	TEAO	Wall	15 ft	Dayton	2WCG7	**2WCG7**
30"	3	4063/5859/7996 CFM	115VAC	1/3	1045/789/561	2.9	TEAO	Wall	15 ft	Dayton	2WCG3	**2WCG3**

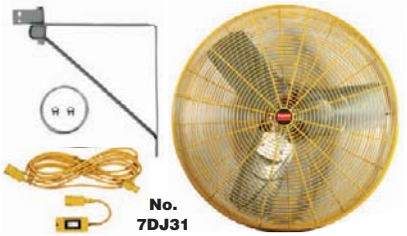
High-Visibility Industrial Wall-Mount Fans

Dayton

- Non-oscillating
- 115VAC
- Ball bearings
- OSHA-compliant wire guards

Safety-yellow finish attracts attention to help prevent accidental damage to the fan. Fans include a 15 ft. extension cord, 3-position drop cord switch, and mounting bracket.

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Item No.
24"	2	3800/6100 CFM	1/3	1075/750	3.28/2.29	TEAO	IBeam, Post	2 ft	7DJ28
	2	3800/6100 CFM	1/3	1075/750	3.28/2.29	TEAO	Ceiling, IBeam, Wall	2 ft	7DJ27
30"	2	8712/9375 CFM	1/2	1075/750	3.7/3.12	TEAO	IBeam, Post	2 ft	7DJ32
	2	8712/9375 CFM	1/2	1075/750	3.7/3.12	TEAO	Ceiling, IBeam, Wall	2 ft	7DJ31


No. 7DJ31

Industrial Wall-Mount Washdown Fans

Dayton

- Non-oscillating
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Can be hosed off or pressure washed during cleaning in areas that require regular washdowns. Fan heads tilt and lock to direct airflow. Secondary safety support cable included.

Painted Steel—Primer and white paint finish on motor. Conduit box included.

Stainless Steel—Approved by the USDA and NSF for food zones. Motors comply with BISSC Standard for waterproof motors.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Item No.
Painted Steel									
20"	1	4750 CFM	115/230VAC	1/4	1100	2.9/1.5	TEAO	Wall	1VCF9
24"	1	6849 CFM	115/230VAC	1/3	1100	3.6/1.8	TEAO	Wall	1VCG1
30"	1	10,050 CFM	115/230VAC	1/2	1100	4.3/2.3	TEAO	Wall	1VCG2
Stainless Steel									
20"	1	2670 CFM	115VAC	1/15	1600	1.08	TENV	Wall	2LYW4
24"	1	5220 CFM	115/230VAC	1/4	1075	3.28/1.68	TENV	Wall	2LYW5
30"	1	8800 CFM	115/230VAC	1/3	1075	3.7/1.88	TENV	Wall	2LYW6


No. 1VCF9

Hazardous-Location Industrial Wall-Mount Fans

Dayton

- Non-oscillating
- Motors only are UL Listed (E29183) for Class 1, Div. 1, Group D, and Class II, Div. I, Groups E, F, and G hazardous locations
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Resist sparking to reduce the risk of ignition when cooling areas with flammable or explosive vapors, gases, or dust. Designated for use in specific hazardous atmospheres as defined under Article 500 of the National Electrical Code (NEC). Multi-position wall bracket and secondary safety support cable included. UL Listed conduit box supplied for hard-wiring.

WARNING: Fan not appropriate for use where paint residue can accumulate on motor or blade.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Item No.
24"	1	5486 CFM	115/230VAC	1/4	1140	6.0/2.9	TEFC	Wall	1VCH1
30"	1	10,937 CFM	115/230VAC	3/4	1140	7.0/3.5	TEFC	Wall	1VCH2
36"	1	12,500 CFM	115/230VAC	3/4	1140	7.0/3.5	TEFC	Wall	1VCH3


No. 1VCH1

Corrosion-Resistant Industrial Wall-Mount Fans

Dayton

- Non-oscillating

Withstand exposure to moisture to allow operation in wet or humid areas without damage to the fan. Indoor uses include regulating temperature in greenhouses to optimize plant growth and ventilating livestock buildings to prevent heat stress in animals and reduce the buildup of moisture, manure gases, pathogens, and dust. They're also used as outdoor mountable fans for cooling people in pool areas and other high-moisture locations.

Nos. 1ZCN7 and 1ZCN8 feature OSHA-compliant wire guards. Nos. 49YW49 to 49YW51 feature wide-spaced wire guards to help prevent clogging.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Includes	Item No.
18"	1	2875 CFM	115VAC	1/15	1650	1.2	TEAO	Ceiling	10 ft	S Hooks & Mounting Chains	1ZCN7
	3	1500/1700/1850 CFM	115VAC	1/12	1550	0.9	75	Ceiling, IBeam, Wall	9 ft	Mounting Accessory	49YW49
20"	3	1850/1700/1500 CFM	115/230VAC	1/10	1700	1.0/.5	100	Ceiling, IBeam, Wall	9 ft.	Mounting Accessory	49YW50
24"	1	6400 CFM	115VAC	1/4	1100	2.8	TEAO	Ceiling	10 ft	S Hooks & Mounting Chains	1ZCN8
	3	3450/3790/3850 CFM	115/230VAC	1/3	1725	3.5/1.7	336	Ceiling, IBeam, Wall	9 ft	Mounting Accessory	49YW51


No. 1ZCN7

High-Velocity Industrial Wall-Mount Fans

PATTERSON

- Ball bearings
- OSHA-compliant wire guards

Have a high-rpm motor and a tubular housing for pushing air at high speeds over long distances. 1-phase fans have 12-ft. power cord; 3-phase fans are hardwired. For a 75° sweep, add optional Oscillator Assembly No. 13F720 (see Grainger.com®).

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Phase	RPM	Amps	Motor Encl.	WITH MOUNTING YOKE & WALL/CEILING MOUNTING BRACKET Item No.	WITH CEILING SUSPENSION BOLTS Item No.	WITH MOUNTING YOKE & DOCK MOUNTING BRACKET Item No.
10"	2	600/800 CFM	115VAC	1/8	1	1300/1550	0.8	TEAO	349JV1	—	—
14"	1	2600 CFM	115/208-230VAC	1/4	1	1725	2.8/1.45-1.4	TEAO	7J700	7J711	7J722
	1	2600 CFM	208-230/460VAC	1/4	3	1725	1.5-1.4/.75	TEAO	7J701	7J712	7J723
18"	1	3800 CFM	115/208-230VAC	1/2	1	1725	6.0/3.0-2.9	TEAO	7J702	7J713	7J724
	1	3800 CFM	208-230/460VAC	1/2	3	1725	2.4-2.3/1.2	TEAO	7J703	7J714	7J725
22"	1	5570 CFM	115/208-230VAC	1/2	1	1725	6.0/3.0-2.9	TEAO	7J704	7J715	—
	1	5570 CFM	208-230/460VAC	1/2	3	1725	2.4-2.3/1.2	TEAO	7J705	7J716	—
26"	1	7650 CFM	115/208-230VAC	1	1	1725	13.4/6.8-6.7	TEFC	7J706	7J717	—
	1	7650 CFM	208-230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	7J707	7J718	—
30"	1	12,000 CFM	115/208-230VAC	1	1	1725	13.4/6.8-6.7	TEFC	7J708	7J719	—
	1	12,000 CFM	208-230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	7J709	7J720	—
34"	1	17,000 CFM	208-230/460VAC	3	3	1165	9.9-9.2/4.6	TEAO	7J710	7J721	—


No. 7J711
No. 7J700
No. 7J722



No. 39UK52



No. 39UK54

Dayton

Light-Duty Industrial Mobile Floor Fans

- 115V
- Ball bearings
- OSHA-compliant wire guards

These fans cool light manufacturing areas, warehouses, and other dry, clean spaces.

Light Duty—These fans can move high volumes of directed airflow at low velocity.

Light-Duty Quiet Design—These fans provide high-velocity air flow in quiet settings. Fan head tilts to direct air flow.

Portable Tilt Carriage Kits for Light Duty Fans—These carriage kits provide support for the fan head while allowing it to be angled for directing airflow. They can be rolled between locations using the wheels or casters originally supplied with the fan.

Ceiling Mount Kit for Light Duty Fans—This kit allows fan heads to attach to a wall, ceiling, or post for circulating air right where it's needed.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Item No.
Light-Duty												
24"	2	4150/6200 CFM	115VAC	1/3	1100/850	3.6/3.2	OPAO	27 1/2"	27 1/2"	20"	10 ft	**39UK52**
30"	2	7070/9700 CFM	115VAC	1/2	850/750	5.2/4.2	OPAO	33 1/2"	33"	21"	10 ft	**39UK53**
36"	2	9200/12,550 CFM	115VAC	1/2	750/650	5.2/4.9	OPAO	39"	38 1/2"	20 1/2"	10 ft	**39UK56**
42"	2	12,500/1688 CFM	115VAC	3/4	850/750	7.9/6.0	OPAO	44 1/2"	44 3/4"	20 3/4"	10 ft	**45LW12**
Light-Duty Quiet-Design												
24"	3	2280/4320/5030 CFM	115VAC	1/4	1025/880/480	1.8/1.5/1	TEAO	28 3/4"	27"	12"	10 ft	**6AGY9**
30"	3	3450/6090/7450 CFM	115VAC	1/4	1010/860/530	1.8/1.4/1	TEAO	36 1/2"	33 3/4"	12 1/4"	8 ft	**6AGZ0**

For Use With	Item No.
Portable Tilt Carriage Kits for Light Duty Fans	
39UK52	**39UK54**
39UK53	**39UK57**
39UK56	**39UK55**
45LW12	**45LW13**
Ceiling Mount Kit for Light Duty Fans	
39UK52, 39UK53, 39UK56, 45LW12	**45LW15**



No. 1YNW5



No. 699W08

Dayton BIG ASS FANS SCHAEFER airmaster Fans

Standard-Duty Industrial Mobile Floor Fans

- OSHA-compliant wire guards

These fans cool heavy manufacturing areas and other dusty or dirty environments.

DAYTON®

- Ball bearings

Fans move high volumes of directed air flow and tilt 360°. Nos. 31XL41 and 31XL42 have maintenance-free Brushless DC EC (electrically commutated) motors; others have PSC. All fans include cord wrap, handle, and 7" rubber wheels.

BIG ASS FANS®

No. 55FF66—has 360° rotation and 40° tilt. It has ball bearings and a rolling pedestal mount for mobility. It's used in unconditioned spaces; areas with low ceilings and obstructions; long, narrow aisles or rooms; and harsh environments.

No. 699W08—has a quiet, energy-efficient direct-drive motor and double-sealed ball bearings. It fits through standard inside doors, has handles on both sides, and indoor/outdoor rubber wheels.

SCHAEFER

- Maintenance-free PSC motors
- Sealed ball bearings

Drum-style fan has stacking tabs and cart with rubberized wheels and a grounded cord.

AIRMASTER FAN

- Sealed ball bearings

Has a maintenance-free EC (electrically commutated) IP56 motor. It comes with a handle and cord wrap on each side, 8" rubber wheels, and locking casters.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Brand	Mfr. Model	Item No.
Belt-Drive														
36"	2	9000/14,000 CFM	120VAC	1	1100/800	7.9/6.0	OPAO	42"	46"	23"	9 ft	Dayton	1YNW7	**1YNW7**
42"	2	10,000/18,000 CFM	120VAC	1	1100/800	7.0/6.0	OPAO	47 5/16"	51 1/16"	22 1/2"	9 ft	Dayton	1YNW8	**1YNW8**
Direct-Drive														
18"	1	—	115VAC	1/3	—	—	—	—	—	—	—	Big Ass Fans	F-SB1-0101L9S34	**55FF66**
24"	2	3600/5800 CFM	120VAC	1/3	850/700	3.9/2.6	OPAO	28"	34 1/4"	17"	9 ft	Dayton	1YNW3	**1YNW3**
24"	Variable	7000 CFM	115VAC	1/4	250/1200	0.1/3.1	TEAO	31 11/32"	30 29/32"	13 1/2"	9 ft	Dayton	31XL41	**31XL41**
30"	2	4700/6900 CFM	120VAC	1/3	860/725	3.9/2.5	OPAO	35 1/4"	39"	20"	9 ft	Dayton	1YNW4	**1YNW4**
36"	2	8350/12,250 CFM	120VAC	1/2	850/750	5.3/4.7	TEAO	40 5/16"	46"	20 1/4"	9 ft	Dayton	1YNW5	**1YNW5**
36"	2	10,900/16,600 CFM	115VAC	1/2	1075/850	5.2/3.5	TEAO	39 3/4"	40 3/4"	19 3/4"	12 ft	Schaefer	VKM36-2-B-O	**33TD77**
36"	Variable	15,000 CFM	115VAC	1/2	150/850	0.2/5.2	TEAO	45 1/4"	42"	20"	9 ft	Dayton	31XL42	**31XL42**
42"	2	9000/15,000 CFM	120VAC	1/2	825/600	5.5/4.9	TEAO	46 5/16"	51 1/2"	20 1/4"	9 ft	Dayton	1YNW6	**1YNW6**
42"	Variable	1525/15,250 CFM	115 to 120VAC	1	466	4.5	TEFC	49"	45"	22"	10 ft	Airmaster Fan	EC42DD	**205GD4**
6 ft.	Variable	—	110-125VAC	2/3	291	4.7	ODP	—	—	—	—	Big Ass Fans	F-BJ1-0601	**699W08**



No. 2RDZ1



No. 699W07

Dayton BIG ASS FANS

Outdoor High-Visibility Industrial Mobile Floor Fans

- Sealed ball bearings
- OSHA-compliant wire guards

These water-resistant fans have a safety-yellow finish that attracts attention to help prevent accidental damage to the fan. These air circulators are commonly used for cooling high-traffic areas where forklifts and other vehicles are used as well as low-light areas where fans may be difficult to see.

Dayton®—Fans move air in outdoor environments, such as construction sites, athletic fields, and open-air loading docks. Water-resistant motors have automatic thermal overload protection. Equipped with tubular steel frame, 8" dia. rubber wheels, and sturdy tilting wheel kit for directing air flow. Units feature 4" base feet, built-in cord wrap, and handle. Foot and wheel assembly is required.

Big Ass Fans®—No. 699W07 is a quiet, energy-efficient, high volume/low speed (HVLS) fan. It's typically used for event spaces and work areas. It has 360° head rotation with 16 selectable cage positions. This fan has a washdown design for easier cleaning.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Mfr. Model	Item No.
Dayton, Outdoor													
24"	2	3600/5800 CFM	120VAC	1/3	850/725	3.4/2.2	TEAO	32"	32"	15"	9 ft	2RDZ1	**2RDZ1**
30"	2	4700/6900 CFM	120VAC	1/3	850/700	3.4/2.4	TEAO	39"	36"	15"	9 ft	2RDZ2	**2RDZ2**
36"	2	8350/12,250 CFM	120VAC	1/2	825/650	5.3/4.9	TEAO	43"	43"	15"	9 ft	2RDZ3	**2RDZ3**
42"	2	9000/15,000 CFM	120VAC	1/2	850/700	5.3/4.6	TEAO	50"	50"	20"	9 ft	2RDZ4	**2RDZ4**
Big Ass Fans®, Indoor/Outdoor													
8 ft.	Variable	—	110-125VAC	2/3	180	12	ODP	—	—	—	—	F-AG2-0801	**699W07**

Dayton Multifan

Corrosion-Resistant Industrial Mobile and Stationary Floor Fans

- OSHA-compliant wire guards

These fans withstand exposure to moisture to allow operation in wet or humid areas without damage to the fan. They have a totally enclosed motor to keep out water and debris.

Dayton®—Fans feature nonskid legs, rubber wheels, and large handle.
- Ball bearings

Multifan—Models can also dry carpet.
- Sealed ball bearings



No. 6ALE4



No. 2FTZ3

Blade Dia.	No. of Speeds	Air Flow	Motor Voltage	Motor HP	Motor RPM	Motor Amps	H	W	D	Cord Length	Mfr. Model	Item No.
Dayton, Mobile												
36"	1	12,800 CFM	120VAC	½	830	5.3	39"	38"	19½"	10 ft.	6ALE5	**6ALE5**
48"	1	21,000 CFM	120VAC	1	850	8.7	52"	51½"	21"	10 ft.	6ALE4	**6ALE4**
Multifan, Stationary												
16"	1	3250 CFM	120VAC	¼	1600	2.6	20½"	20½"	17½"	10 ft.	B4E4003M11100P	**2FTZ3**
	Variable	3790 CFM	115VAC	¼	1600	2.6	20½"	20½"	17½"	10 ft.	B4E40TRINC2	**3NZW5**
20"	1	4800 CFM	120VAC	⅓	1600	3.6	24½"	24½"	17½"	10 ft.	B4E5003M11100P	**2FTZ8**
	Variable	5480 CFM	115VAC	⅓	1600	3.6	24½"	24½"	17½"	10 ft.	B4E50TRINC2	**3NZW6**

PATTERSON THE AUTHORITY IN AIR MOVEMENT

High-Velocity Industrial Mobile Floor Fans

- Ball bearings
- OSHA-compliant wire guards

These fans have a high-rpm motor and a tubular housing for pushing air at higher speeds over longer distances than fans with a standard open-housing design. They provide more coverage than a typical industrial fan for cooling long aisles and large areas in warehouses and manufacturing plants. 115VAC models include factory-wired 12-ft. cord with plug. 3-phase models require hardwiring.

1-Speed Fans—Fans include a mobile tilting pedestal with wheels (except No. 7J736 has a pedestal base).

3-Speed Fans—Used for people and process cooling and general air circulation. Units have 6" casters and easy-to-grip handle.



No. 7J726



No. 13F723

Blade Dia.	Air Flow	Voltage	Motor HP	Phase	Motor RPM	Amps	Motor Encl.	H†	W	D	Item No.
1-Speed Fans with Mobile Tilting Pedestal											
14"	2600 CFM	115/208-230VAC	¼	1	—	—	TEAO	20"	20"	—	**7J726**
	2600 CFM	208-230/460VAC	¼	3	—	—	TEAO	20"	20"	—	**7J727**
18"	3800 CFM	115/208-230VAC	½	1	1725	6.0/3.0-2.9	TEAO	24"	24"	16"	**7J728**
	3800 CFM	208-230/460VAC	½	3	—	—	TEAO	24"	24"	—	**7J729**
22"	5570 CFM	115/208-230VAC	½	1	1725	6.0/3.0-2.9	TEAO	29"	29"	16"	**7J730**
	5570 CFM	208-230/460VAC	½	3	1725	2.4-2.3/1.2	TEAO	29"	29"	16"	**7J731**
26"	7650 CFM	115/208-230VAC	1	1	1725	13.4/6.8-6.7	TEFC	33"	33"	18½"	**7J732**
	7650 CFM	208-230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	33"	33"	18½"	**7J733**
30"	12,000 CFM	115/208-230VAC	1	1	1725	13.4/6.8-6.7	TEFC	37"	37"	22"	**7J734**
	12,000 CFM	208-230/460VAC	1	3	1725	3.6-3.5/1.8	TEAO	37"	37"	22"	**7J735**
34"	17,000 CFM	208-230/460VAC	3	3	1165	9.9-9.2/4.6	TEAO	43½"	43½"	25½"	**7J736** *
3-Speed Fans with 6" Semi-Pneumatic Casters											
30"	6200/6800/7500 CFM	115VAC	½	1	1725	5.8/5.25/5.2	ODP	37"	37"	15¼"	**13F723**
34"	8700/9200/10,000 CFM	115VAC	½	1	1725	5.6/4.8/4.6	ODP	43½"	43½"	14¾"	**13F724**

**** Pedestal base, no wheels. † Fan height, without mobile tilting pedestal.***

BREEZER MOBILE COOLING

Power Breezer® Portable Misting Coolers

- 1 HP, 1750 rpm
- Variable speed
- Oscillating head
- Integrated water tanks
- OSHA-compliant wire guards

Durable cooling fans can reduce heat-related injuries and improve productivity. Models can reduce temperatures by up to 27°F by circulating atomized water vapor without getting users or equipment wet. Can be used outdoors and in partially covered environments. These wheeled coolers have no evaporative pads to change out, but require regularly draining and cleaning the water tank to prevent odors and clogging from sludge buildup.



No. 44ZC63



No. 55MU72



No. 55MU73 Ducting Only

Description	Blade Dia.	Air Flow	Voltage	Water Cap.	H	W	Cord Length	Std.	Mfr. Model	Item No.
Coolers										
Power Breezer®	23"	1000/14,000 cfm	110VAC	85.0 gal	70"	29½"	25 ft.	ETL US/CAN	PB10-A-06-B	**44ZC70**
		1000/14,000 cfm	110VAC	85.0 gal	70"	29½"	25 ft.	ETL US/CAN, Mil-STD-810G	PB10-A-1B	**44ZC71**
		1000/14,000 cfm	220VAC	85.0 gal	70"	29½"	25 ft.	ETL US/CAN, CE, Mil-STD-810G	PB20-A-1B	**44ZC63**
Power Breezer® Max	23¾"	14,000 cfm	110VAC	80.0 gal.	73½"	29⅝"	—	—	PB10-MAX-06-B	**55MU72**

Description	Mfr. Model	Item No.
Ducting		
For Power Breezer models PB10-A-06B, PB10-A-1B, PB10-A-BL PB20-A1B; Includes Reducer, 10 ft. of Ducting	PB600-005-01	**44ZE28**
For Mfr. No. PB10-A-06-B, PB10-MAX-06-B; Includes Mounting Straps	600-070-A	**55MU73**

CANARM HVAC
VES ENVIRONMENTAL SOLUTIONS
Dayton







Industrial Ceiling Fans

- 120VAC

These fans combine a traditional ceiling fan appearance and an industrial-duty build for circulating air in manufacturing plants and large commercial settings. These air circulators are made of heavier-gauge materials than decorative office or residential ceiling fans. A mounting bracket is included for attaching these fans to a ceiling. Optional adjustable fan controls sold separately, this page.

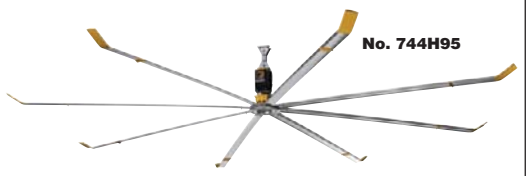
Canarm—4-speed No. 38RJ57 includes a wall control. Standard-duty models are weather-resistant, suitable for high-moisture applications, and have heavy-duty motors.

VES—No. 488V20 includes a 3-speed wall control. Typically used in factories, garages, retail stores, and warehouses.
- Plastic blades
- 18" downrod

Dayton®—Fans feature orward/reversing mode when used with optional Speed Control No. 5NRA4 sold separately, this page.
- Aluminum blades
- 6" downrod

Blade Dia.	No. of Speeds	Air Flow	RPM	Amps	Reversible	Max. Mounting Height	Housing Color	No. of Blades	Brand	Mfr. Model	Item No.
Light-Duty Industrial Ceiling Fans											
36"	Variable	7,100 CFM	380	0.8	Yes	11 ft	Black	3	Canarm	CP36BK	**38RJ59**
	Variable	7,100 CFM	380	0.8	Yes	11 ft	White	3	Canarm	CP36	**29NV21**
48"	Variable	13,000 CFM	320	0.8	Yes	15 ft	Black	3	Canarm	CP48BK	**38RJ58**
	Variable	13,000 CFM	320	0.8	Yes	15 ft	White	3	Canarm	CP48	**29NV22**
56"	Variable	20,500 CFM	310	0.9	Yes	21 ft	Black	3	Canarm	CP56BK	**29NV27**
	Variable	20,500 CFM	310	0.9	Yes	21 ft	Brown	3	Canarm	CP56BR	**29NV26**
	4	20,500 CFM	310	0.9	No	21 ft	Chrome	3	Canarm	CP56CH	**38RJ57**
	Variable	20,500 CFM	310	0.9	Yes	21 ft	White	3	Canarm	CP56S	**29NV24**
Standard-Duty Industrial Ceiling Fans											
60"	3	46,000/27,400/19,200/12,300 CFM	258/154/108/80	0.97	No	30 ft	White	3	VES	INDC60ODP	**488V20**
72"	6	9400/9000/8800/8200/8000/7500 CFM	123/110/95/80/65/50	0.5	Yes	7 to 20 ft	White	9	Dayton	7DX27	**7DX27**
88"	6	9900/9700/9300/8900/8500/7900 CFM	88/79/71/64/57/50	0.5	Yes	7 to 20 ft	White	9	Dayton	7DX28	**7DX28**
96"	6	10,500/10,100/9700/9300/8900/8500 CFM	76/70/65/60/55/50	0.5	Yes	7 to 20 ft	White	9	Dayton	7DX29	**7DX29**
Standard-Duty Moisture-Resistant Industrial Ceiling Fans											
48"	Variable	21,000 CFM	325	0.55	Yes	15 ft	White	3	Canarm	CP48HPWP	**29NV28**
56"	Variable	28,000 CFM	320	0.7	Yes	21 ft	Black	3	VES	INDB56MR4LPB	**56FJ70**
	Variable	28,000 CFM	320	0.7	Yes	21 ft	White	3	VES	INDB56MR4LP	**488V19**
	Variable	28,000 CFM	319	0.83	Yes	21 ft	White	3	Canarm	CP56HPWP	**29NV29**
60"	Variable	46,000 CFM	280	0.7	Yes	30 ft	Black	3	VES	INDB60MR4LPB	**56FJ71**
	Variable	46,000 CFM	280	1.1	Yes	30 ft	White	3	VES	INDB60MR4LP	**488V24**
	Variable	46,000 CFM	292	0.84	Yes	30 ft	White	3	Canarm	CP60HPWP	**29NV30**





BIG ASS FANS

Industrial HVLS (High-Volume Low-Speed) Ceiling Fans

- Variable speed, reversible
- Aluminum airfoil blades
- Wall-mounted keypad
- Fire control panel integration

These fans feature long, specialized blades that move large volumes of air while rotating at a low speed. They operate with minimal noise to avoid creating disruptions and generate gentle airflow, making them ideal for cooling athletic facilities, retail spaces, garages, and factories. Fans include a mounting bracket. Additional models available on Grainger.com®.

Basic 6®—Have sealed industrial-grade motor and gearbox to withstand harsh conditions. Controller has onboard NEMA 4X VFD to eliminate RFI/EMI noise.

Powerfoil X3.0®—IP43 motor with fully sealed drive enclosure resists corrosion and heat build-up. Up to eight fans can be linked and controlled. Integrates with lights, security cameras, speakers, or other devices. Onboard VFD is housed in an ABS/PVC-based enclosure with built-in heatsink to eliminate RFI and EMI noise.

Blade Dia.	Voltage	Phase	RPM	Amps	Max. Mounting Height	Housing Color	No. of Blades	Mfr. Model	Item No.
Basic 6® Series									
8 ft.	200 to 240VAC	3	191	5.0	10 to 45 ft	Gray	6	F-PF62-0803S34X2	**493Z84**
12 ft.	200 to 240VAC	3	135	5.0	10 to 45 ft	Gray	6	F-PF62-1203S34X2	**493Z85**
16 ft.	200 to 240VAC	3	98	8.1	10 to 45 ft	Gray	6	F-PF62-1603S34X2	**493Z86**
20 ft.	200 to 240VAC	3	76	8.1	10 to 45 ft	Gray	6	F-PF62-2003S34S65X2	**493Z87**
Powerfoil X3.0® Series									
12 ft.	200 to 250VAC	3	139	2.5	27 ft	Gray	8	F-PFX3-1203S34X2	**744H95**
16 ft.	200 to 250VAC	3	99	2.5	29 ft	Gray	8	F-PFX3-1603S34X2	**744H96**
20 ft.	200 to 250VAC	3	78	3.0	40 ft	Gray	8	F-PFX3-2003S34X2	**744H97**



PATTERSON
THE AUTHORITY IN AIR MOVEMENT

Industrial Low-Profile Blower-Style Ceiling Fans

- 12⅛"H x 35"W x 18⅝"D
- 60dBA

Quiet, compact fans require less room than other industrial fans and allow for more headroom in distribution and fulfillment centers. Double blower evenly distributes two columns of air to cool the area. Mounting bracket included; No. 55KR41 also features a 10-ft. pigtail.

No. of Speeds	Air Flow	Voltage	RPM	Amps	Mfr. Model	Item No.
1	3075 CFM	120/208-230VAC	1725	4.2/1.9	DB-A	**55KR39**
	3075 CFM	230/440VAC	1725	1.0/.5	DB-B	**55KR40**
	3075 CFM	277VAC	1725	2.1	DB-C	**55KR41**

Dayton
VES ENVIRONMENTAL SOLUTIONS

Adjustable Fan Controls

- 120V

Used with Dayton® and other compatible speed-controllable commercial and industrial ceiling fans. Controls fit single gang box.

Note: When any solid-state motor speed control is used, a humming noise may be present in fan on low speed. This hum in no way affects fan operation and is acceptable in most industrial installations.





Description	Max. Amps	Plate Color	H (in.)	W (in.)	D (in.)	Brand	Item No.
Dual-Feature, Slide Fan Speed Control & Lighting Switch	1	White	4½	2¾	1⅜	Dayton	**22PP79**
Rotary Fan Speed Control with Forward/Reverse Switch	5	Silver	5	3	2	VES	**5NRA4**
Rotary Fan Speed Control	3	Silver	4½	2¾	1⅜	Dayton	**22PP72**
	8	Black/Silver	4½	2¾	1¼	Dayton	**22PP73**
	12	Black/Silver	4½	4½	1¼	Dayton	**22PP74**
Wireless Remote Control, 3"L x 1½"W, For use with 7DX27, 7DX28, 7DX29 (Requires 36WC93)						Dayton	**36WC87**

Dayton

Non-Oscillating Office Pedestal Fans

- 3-speed
- OSHA-compliant guards
- 120VAC
- 9-ft. power cord

Have a fixed fan head to focus cooling on one area in clean, dry environments. The fan head can adjust to point in any direction and will remain that way until manually readjusted. The pedestal has an adjustable height. Wheeled base provides portability.



No. 1ANZ7

Blade Dia.	Air Flow	H	W	Color	Item No.
16"	1800/2100/2450 CFM	Adj 48 to 58"	20"	Black	2LY94
20"	2700/3150/3650 CFM	Adj 52 to 62"	24"	Black	1ANZ7

Air King Ventilation Products

Dayton

Office Floor Fans

- 3-speed
- 120VAC
- OSHA-compliant guards

Have a wide support base to resist tipping over, even when bumped. These cooling fans are also light enough to pick up and carry where needed. Heads can be tilted and positioned to direct air flow.



No. 4CH68



No. 2LY89

Floor or Wall-Mount—No. 3GXW8 includes multifunction remote control. Nos. 3GXW8 and 4CH68 have a carrying handle with wall-mount option built into base. No. 19RR53 includes remote control and wall-mount plate.

Floor, Wall-, or Ceiling-Mount—Fans include a wall and ceiling bracket.

Blade Dia.	Air Flow	H	W	D	Cord Length	Brand	Mfr. Model	Item No.
Floor or Wall-Mount								
20"	1570/2055/2470 CFM	24⅛"	6¾"	—	6 ft.	Air King	9505	3GXW8
20"	1570/2055/2470 CFM	24¾"	6¾"	—	6 ft.	Air King	9500	4CH68
20"	2460/2590/2815 CFM	22"	7"	—	6 ft.	Dayton	19RR53	19RR53
Floor, Wall-, or Ceiling-Mount								
12"	600/800/1050 CFM	14"	16"	6"	9 ft.	Dayton	2LY90	2LY90
16"	1800/2100/2450 CFM	19"	22"	10"	9 ft.	Dayton	2LY91	2LY91
20"	2700/3150/3650 CFM	24"	24"	10"	9 ft.	Dayton	2LY89	2LY89

Air King Ventilation Products

Office Box Fan and Stand

Box Fan—Has a slim square housing that requires minimal floor space and a built-in handle for carrying and repositioning. Has chemical-resistant 5-blade propeller. Ships fully assembled.

- 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Roll-About Fan Stand—Allows fan to be raised 26" or 28" off the floor. Locking tilt adjustment allows the fan head to rotate 360° to direct air flow. Fan not included.



(Fan & Stand Sold Separately)

Description	Blade Dia.	Air Flow	H	W	L	Mfr. Model	Item No.
3-Speed Box Fan	20"	1463/1900/2163 CFM	22½"	6⅜"	21⅜"	9723	4CH71
Roll About Stand with 4" wheels			47"	20"	24"	9701	4CH70

Air King Ventilation Products

Oscillating Office Pedestal Fans

- 3-speed
- OSHA-compliant guards
- 120VAC
- 6-ft. power cord

Cool clean, dry environments using a pivoting fan head that turns 90° from side to side to blow air over a wider area than non-oscillating fans. The fan head can also be locked in a fixed position for targeted cooling. Adjustable-height pedestal. Nos. 2EKZ1 and 2EKZ2 include remote control.



No. 48PY05



No. 4CH63

Blade Dia.	Air Flow	H	W	Color	Mfr. Model	Item No.
16"	1000/1345/1555 CFM	53"	18"	Gray	9546	2EKZ1
16"	1220/1420/1580 CFM	53¼"	18"	White with Gray Accents	9126	4C945
18"	1360/1680/1955 CFM	50½"	20¾"	White	9880	2EKZ2
18"	1380/1680/1950 CFM	53¾"	20¼"	Black	9118	48PY05
18"	1380/1680/1950 CFM	54½"	20¾"	White	9119	4CH63



No. 2EKZ4



No. 2EKZ5



No. 2EKZ6



No. 2EKZ3

Air King Ventilation Products

Oscillating Office Tower Fans

- 3-speed
- OSHA-compliant guards
- 120VAC
- 6-ft. power cord

Air Flow	H	W	Mfr. Model	Item No.
325/400/450 CFM	36"	11¾"	9210	2EKZ4
250/285/325 CFM	38"	12"	9519	24Y862
430/485/540 CFM	43"	13"	9554	2EKZ5
305/350/390 CFM	48"	13"	9820	2EKZ6
220/310/390 CFM	53"	14½"	9535	2EKZ3

These are tall, slender fans that can fit into corners and tight spaces to provide cooling while taking up minimal floor space. Wide-area oscillation for full-room coverage and includes multifunction remote control and electronic timer. Nos. 2EKZ5 and 2EKZ6 feature an air-purifying ionizer function.

Dayton

Mobile Office Floor Fans with Wheels

- 3-speed
- OSHA-compliant guards
- 120VAC
- 9-ft. power cord
- Locking tilt adjustment



No. 2MA11



No. 2LY92

These fans have wheels, so they can be rolled from one spot to another as cooling needs change. They have a wide support base that helps keep them from tipping over, even when bumped.

Roll-About—Tiltable fan is positioned on included stand approx. 4 ft. off the ground for optimal air movement and mobility.

Mobile—Lightweight fan can be tilted 360° to direct air where it's needed. Includes a carriage with handle for mobility.

Blade Dia.	Air Flow	H	W	D	Item No.
Roll-About Stand with 4" Wheels					
18"	2050/2330/2650 CFM	48"	26"	25"	2LY93
24"	4200/4550/4950 CFM	52"	34"	29"	2LY92
Mobile Tilt Carriage with 4" Plastic Casters					
24"	4200/4500/4950 CFM	29"	30"	15"	2MA11
30"	5050/5750/6200 CFM	36"	37"	15"	2MA12


No. 1EFV9


No. 6C507


No. 1EFV8


No. 2EKZ8


No. 38HX83


No. 53KJ55

Desk Fans

CLIP-ON

Air King®—No. 1EFV9 has a swivel-action base that allows pivot and tilt. Base is removable for desktop use. No. 6C507 has tilting head.
- OSHA-compliant guards

Dayton®—No. 410C95 can be used as a clip-on or table fan.

COMPACT

Air King®
- OSHA-compliant guards

O2Cool®—Healthcare fan No. 53KJ55 is treated with an antimicrobial. Model tilts and folds. No. 53KJ57 operates with batteries or included AC adapter. Both are FCC and RoHS compliant.

DESK
- OSHA-compliant guards

Fans oscillate 90° or lock in position. Tilting head.

PIVOTING
- OSHA-compliant guards
- Nos. 4TM65 and 35Z832 can be wall-mounted

No. 4CH69 has 360° rotating head; No. 4TM65 has cord wrap and 112° rotating head. No. 35Z832 includes a remote control.


No. 4C796


No. 53KJ57


No. 4CH69


No. 35Z832

Blade Dia.	Oscillation	No. of Speeds	Air Flow	Fan Power Source	Cord Length	Fan Voltage	H	W	Brand	Mfr. Model	Item No.
Clip-On											
1 ½ in	Non-Oscillating	2	30/35 CFM	Plug-In	6 ft	120 V AC	18 ¼ in	8 in	Air King	9406	**1EFV9**
6 in	Non-Oscillating	2	90/190 CFM	Plug-In	6 ft	120 V AC	11 ⅛ in	7 ¾ in	Air King	9145	**6C507**
6 in	Non-Oscillating	2	200/342 CFM	Plug-In	6 ft	120 V AC	10 ½ in	7 ⅞ in	Dayton	410C95	**410C95**
Compact											
1 ½ in	Oscillating	2	47/56 CFM	Plug-In	6 ft	120 V AC	14 ⅛ in	4 ¼ in	Air King	9400	**1EFV8**
3 in	Non-Oscillating	2	116/144 CFM	Plug-In	6 ft	120 V AC	6 ½ in	5 ⅛ in	Air King	9904	**2EKZ8**
3 ½ in	Non-Oscillating	1	32 CFM	USB	4 ft	5 V DC	6 in	5 ¾ in	GA	38HX82	**38HX82** †
3 ½ in	Non-Oscillating	1	32 CFM	USB	4 ft	5 V DC	6 in	5 ¾ in	GA	38HX83	**38HX83** †
5 in	Non-Oscillating	2	235/153 CFM	Battery Operated	No Cord	3 V DC	6 5⁄16 in	4 11⁄32 in	Treva/O2Cool	FD05805	**53KJ55** *
6 in	Non-Oscillating	2	90/190 CFM	Plug-In	6 ft	120 V AC	9 ⅜ in	7 ¾ in	Air King	9146	**4C796**
9 in	Oscillating	2	410/490 CFM	Plug-In	6 ft	120 V AC	16 ⅞ in	8 ⅛ in	Air King	9154	**4C523**
10 in	Non-Oscillating	2	N/A	Battery Operated	—	9 V DC	12 ⅞ in	3 ¾ in	Treva/O2Cool	FD10802A	**53KJ57** *
Desk											
12 in	Oscillating	3	620/780/930 CFM	Plug-In	6 ft	120 V AC	19 in	10 ½ in	Air King	9102	**4DA35**
16 in	Oscillating	3	1330/1500/1710 CFM	Plug-In	6 ft	120 V AC	22 ½ in	12 in	Air King	9106	**4DA36**
Pivoting											
9 in	Non-Oscillating	2	365/435 CFM	Plug-In	6 ft	120 V AC	13 in	5 ½ in	Air King	9525	**4CH69**
9 in	Non-Oscillating	3	520/610/700 CFM	Plug-In	6 ft	120 V AC	13 ¼ in	6 ½ in	Air King	9530	**4TM65**
12 in	Non-Oscillating	3	570/720/840 CFM	Plug-In	6 ft	120 V AC	15 ¼ in	15 ⅜ in	Air King	9637	**35Z832**

Batteries not included. † No. 38HX82 is white; No. 38HX83 is black.

Office Wall-Mount Fans

- 3-speed, 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Have a bracket for securing to a wall in busy areas or tight spaces. These cooling fans have an oscillating head that circulates air throughout a room. Rotary knob and pull cord operation. Impact- and chemical-resistant polypropylene propeller. Nos. 406D83 and 406D82 include a remote control. No. 2EKZ7 has push button and remote control and a 7½-hr. timer.

Blade Dia.	Air Flow	H	W	Mfr. Model	Item No.
12"	700/800/940 CFM	20¾"	14¼"	9012	**4C630**
16"	1000/1250/1350 CFM	21⅝2"	17 15⁄16"	9650	**406D83**
16"	1140/1340/1480 CFM	18"	18"	9046	**2EKZ7**
16"	1190/1380/1510 CFM	22⅝"	14"	9016	**4C631**
18"	1170/1520/1970 CFM	23"	15½"	9018	**4CH64**
18"	1350/1540/1800 CFM	22 1⁄16"	20½"	9850	**406D82**


No. 4CH64


No. 45PD94

We carry Decorative Ceiling Fans on Grainger.com®

Decorative office ceiling fans have blade materials and housing finishes that provide an attractive alternative to industrial ceiling fans in offices, residences, and other light-duty settings. They provide cooling without taking up floor space and rotate at low speeds to regulate temperature without disrupting work areas. These cooling fans can mount flush to the ceiling using the included bracket, or they can be suspended from a downrod.


No. 2ELA2


No. 2ELA3


No. 2EJR6

Office Window Fans

- 120VAC
- Manual controls, reversible
- Assembled
- OSHA-compliant guards
- 6-ft. power cord

Can be positioned to either bring outside air into a room or to exhaust odors, smoke, or stale air from a room.

No. 2ELA2—Manually reversible twin fan has expander panels for a custom fit. Includes snap-on feet for table or floor use.

No. 2ELA3—Manually reversible Air Director® window/floor fan has pivoting tilt. Fits in front of window screen.

No. 2EJR6—Electrically reversible motor reverses with the turn of a dial. Window can be closed behind fan during inclement weather.

Blade Dia.	No. of Speeds	Air Flow	Fits Window Height	Fits Window Width	H	W	D	Mfr. Model	Item No.
7"	2	506/560 CFM	12 in	22 in to 34 in	10¾"	21⅜"	4¼"	9137	**2ELA2**
14"	3	1080/1250/1385 CFM	18 ½ in	18 ½ in or Larger	19½"	18"	7"	9935	**2ELA3**
16"	3	1360/1700/2470 CFM	22 in	26 ½ in to 34 ½ in	22"	18¼"	7"	9155	**2EJR6**

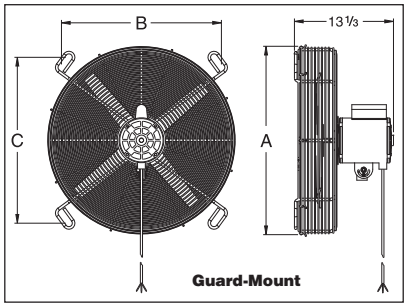
Guard- and Tubular-Mount Transformer Cooling Fans

- Totally enclosed motors
- Permanently lubricated sealed ball bearings
- OSHA-compliant wire guards

These fans blow air onto a transformer radiator to help regulate the temperature of an oil-cooled transformer. They help prevent overheating and reduce wear of transformers by circulating air around the radiator housing to speed cooling of oil within the radiator. Motor shaft with rust inhibitor treatment and shaft-end bearing slinger protect against dirt and moisture. Cast-aluminum propellers. Fans include weatherproof 15-ft. UL-Recognized power cord, factory prewired for 230V operation.

Guard-Mount—Have loops that connect to a separate guard-mount mounting kit for attaching to a transformer. Hot-dipped heavy galvanized steel guards. No. 2ATY1 mounting kit sold separately.

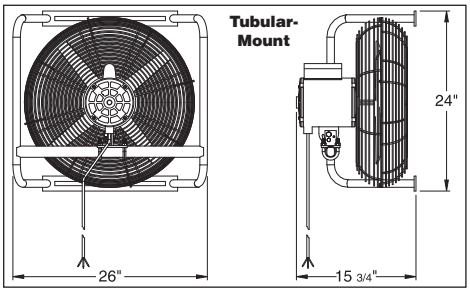
Tubular-Mount—Have a frame that mounts directly to a transformer. Zinc-plated wire guards. Mounting kit included.




Guard-Mount


Tubular-Mount

Blade Dia.	Air Flow	Motor HP	RPM	Voltage	Phase	Amps	Dimensions A	Min. B	Max. B	Min. C	Max. C	Item No.
Guard-Mount												
16"	3100 CFM	¼	1140	115/230VAC	1	3.1/1.5	19"	11¾"	15¾"	15¾"	19"	**13F050**
	3100 CFM	¼	1140	208-230/460VAC	3	1.3-1.4/0.7	19"	11¾"	15¾"	15¾"	19"	**13F056**
	4590 CFM	¼	1725	115/230VAC	1	3.0/1.5	19"	11¾"	15¾"	15¾"	19"	**2ATX6**
	4590 CFM	¼	1725	208-230/460VAC	3	1.1-1.2/0.6	19"	11¾"	15¾"	15¾"	19"	**13F053**
20"	4600 CFM	¼	1140	115/230VAC	1	3.1/1.5	23"	17¾"	21¼"	18½"	18½"	**13F051**
	4600 CFM	¼	1140	208-230/460VAC	3	1.3-1.4/0.7	23"	17¾"	21¼"	18½"	18½"	**13F057**
	5000 CFM	¼	1725	208-230/460VAC	3	1.1-1.2/0.6	23"	17¾"	21¼"	18½"	18½"	**13F054**
	6600 CFM	½	1725	115/230VAC	1	4.1/2.1	23"	17¾"	21¼"	18½"	18½"	**2ATX7**
24"	6800 CFM	⅓	1140	115/230VAC	1	3.4/1.7	27"	19⅞"	23⅜"	21½"	21½"	**13F052**
	6800 CFM	⅓	1140	208-230/460VAC	3	1.5-1.6/0.8	27"	19⅞"	23⅜"	21½"	21½"	**13F058**
	7000 CFM	⅓	1725	208-230/460VAC	3	1.4-1.5/0.8	27"	19⅞"	23⅜"	21½"	21½"	**13F055**
	7900 CFM	½	1725	115/230VAC	1	4.7/2.4	27"	19⅞"	23⅜"	21½"	21½"	**2ATX8**
Tubular-Mount												
20"	6599 CFM	½	1725	115/230VAC	1	4.1/2.1	—	—	—	—	—	**2ATX9**
Guard-Mount Transformer Cooling Fan Mounting Kit												
For Use With 2ATX6, 2ATX7, 2ATX8, 13F050, 13F051, 13F052, 13F053, 13F054, 13F055, 13F056, 13F057, 13F058												**2ATY1**



Vehicle Bolt-On DC Cooling Fans

- Hardwired
- Adjustable-position swivel
- Base-mounted control switch

Provide cooling for operators of trucks, forklifts, cranes, tractors, and other vehicles. Their base mounts directly to a dashboard or other surface inside a vehicle to aim airflow toward operators for personal cooling. These cooling fans can be used where there's access to a compatible DC power supply. Mounting hardware and gasket included.

For portable vehicle fans, see page 950.

Blade Dia.	No. of Speeds	Air Flow	Amps	Guard Material	Mfr. Model	Item No.
12VDC						
6½"	1	220/270 CFM	2.5	Chrome Plated Steel	F-300012	**45NY34**
	2	140/210 CFM	1.7	Chrome Plated Steel	F-100012	**45PC81**
		220/270 CFM	2.7	Black Painted Steel	F-4670176	**45NY36**
		220/270 CFM	2.7	Chrome Plated Steel	F-920612	**45NY38**
		220/280 CFM	2.7/1.6	Chrome Plated Steel	F-320212	**4C586**
24VDC						
6½"	1	220/270 CFM	1.3	Chrome Plated Steel	F-300024	**45NY35**
	2	220/270 CFM	1.3	Black Painted Steel	F-4670177	**45NY37**
		220/270 CFM	1.4	Chrome Plated Steel	F-920624	**45NY39**
		220/280 CFM	1.8/1.0	Chrome Plated Steel	F-320224	**4C587**


No. 45PC81


No. 4C586

Vehicle DC Cooling Fans

- Vertical mount
- Totally enclosed motors
- Sleeve bearings
- Max. ambient temp.: 200°F
- 12VDC

Champion Series low-profile electric engine-cooling fans provide higher performance than belt- or clutch-driven fans. Reduce drag for improved fuel economy and horsepower. Provide max. heat transfer during low speeds and engine idle. Sealed fan motors are dust- and waterproof. Fans feature quiet, reversible S-blade design and all glass-filled nylon construction. Each has four 90° mounting feet, 8 rubber spacers, and 9" mating locking pigtail connector. 12", 14", and 16" fans have concentric retainer rings to keep blades from flattening out at high speed, maximizing air flow.

Blade Dia.	CFM @ 0.000" SP	Motor RPM	Full Load Amps	Mfr. Model	Item No.
5/64 HP Motor					
10"	950	2600 to 3200	7.9	M103K	**3PDR2**
12"	1155	2600 to 3200	7.7	M123K	**3PDR3**
3/32 HP Motor					
14"	1555	2600 to 3200	10.1	M146K	**3PDR4**
16"	1810	2600 to 3200	12.3	M166K	**3PDR5**
3/16 HP Motor					
12"	1595	—	18	M122K	**32PF41**
16"	2170	2600 to 3200	18	M162K	**3PDR6**


No. 3PDR2


No. 32PF41


Square
No. 3LE77


Oblong
No. 4WT42


Round
No. 3VU67


Skeleton
No. 2VUW6

Compact Axial Fans

- All-position mounting
- Max. ambinet temp.: 158°F

These fans cool equipment within enclosures. They have a housing that can mount into existing louvered vents or cutouts that match the shape of the fan. Single-speed fans are not speed-controllable. All AC units are rated at 60/50 Hz (50 Hz operation will decrease CFM by approximately 20%). UL and C-UL Recognized Component, and RoHS Compliant (IP55 fans are TUV compliant).

Standard Square, AC—Driven with impedance-protected shaded pole or thermally protected PSC motor.

Standard Square, DC—Driven with brushless DC motor.

Wet-Location Square, DC—Motor is IP (Ingress Protection) rated to withstand water sprays.

Standard Oblong, AC—Driven with thermally protected PSC motor; housing has two flat sides and two curved sides.

Standard Round, AC—Driven with thermally protected PSC motor.

Standard Skeleton, AC—Require minimal space for installation; driven with impedance-protected shaded pole motor.

H	D	W	Dia.	CFM @ 0.000" SP	IP Rating	Housing Material	Mounting Eye O.C.	Voltage	Electrical Connection	Amps	Watts	Sound Level	Bearing Type	Item No.
Standard Square, AC														
2⅜"	1"	2⅜"	—	18/17.5		PBT Plastic	1 15⁄16"	115VAC	Lead Wires	0.185/0.191	3.2/3.3	31/30	Zero Friction Air	2RTE4
3⅛"	1"	3⅛"	—	41/40			2 13⁄16"	115VAC	Lead Wires	0.11/0.11	3.6/3.6	33/32	Zero Friction Air	2RTE8
3⅛"	1½"	3⅛"	—	31/24		Cast Aluminum	2 13⁄16"	115VAC	Lead Wires	0.13/0.15	12/14	36.5/32	Ball	3LE75
4 11⁄16"	1½"	4 11⁄16"	—	75/72			4⅛"	115VAC	Terminals	0.11/0.12	10/11	49/37	Ball	3LE77
4 11⁄16"	1½"	4 11⁄16"	—	78/72			4⅛"	115VAC	Terminals	0.11/0.13	11/11	39/37	Ball	3LE76
4 11⁄16"	1½"	4 11⁄16"	—	102/92	IP20		4⅛"	115VAC	Terminals	0.18/0.22	14/16	48/45	Ball	3VU65
4 11⁄16"	1½"	4 11⁄16"	—	107/87			4⅛"	115VAC	Terminals	0.18/0.21	18/20	50/45	Ball	6KD76
4 11⁄16"	1½"	4 11⁄16"	—	117/97			4⅛"	115VAC	Terminals	0.24/0.26	20/22	50/45	Ball	6KD75
4 11⁄16"	1½"	4 11⁄16"	—	124/112		Aluminum	4⅛"	115VAC	Terminals	0.25/0.28	21/23	47/44	Ball	2RTK6
4 11⁄16"	1½"	4 11⁄16"	—	107/87		Cast Aluminum	4⅛"	230VAC	Terminals	0.11/0.125	19/20	50/45	Ball	3LE74
4 11⁄16"	1½"	4 11⁄16"	—	117/97		Aluminum	4⅛"	230VAC	Terminals	0.12/0.14	21/22	50/45	Ball	2RTE1
4 11⁄16"	1½"	4 11⁄16"	—	99/87			4⅛"	230VAC	Terminals	0.10/0.11	15⁄16	48/46	Ball	2RTD8
6 15⁄16"	3½"	6 15⁄16"	—	355/315		Cast Aluminum	6"	115VAC	Terminals	0.27/0.25	24/30	66/62	Ball	3VU66
Standard Square, DC														
1 15⁄16"	⅜"	1 15⁄16"	—	11			1 9⁄16"	5VDC	Lead Wires	0.23	1.2	26	Zero Friction Air	2RTF2
2⅜"	1"	2⅜"	—	40			1 15⁄16"	12VDC	Lead Wires	0.45	5.4	45	Zero Friction Air	2RTF9
2⅜"	1"	2⅜"	—	19.3			1 15⁄16"	24VDC	Lead Wires	0.06	1.3	30	Ball	6KD71
2⅜"	1"	2⅜"	—	31.5			1 15⁄16"	24VDC	Lead Wires	0.13	3.1	41	Zero Friction Air	2RTH1
3⅛"	1"	3⅛"	—	37	IP20	PBT Plastic	2 13⁄16"	12VDC	Lead Wires	0.12	1.4	30	Ball	6KD68
3⅛"	1½"	3⅛"	—	74			2 13⁄16"	12VDC	Lead Wires	0.53	6.4	51.6	Ball	2RTH5
3⅛"	1½"	3⅛"	—	84			2 13⁄16"	12VDC	Lead Wires	0.76	9.1	55.2	Ball	2RTH4
3⅛"	1½"	3⅛"	—	84			2 13⁄16"	24VDC	Lead Wires	0.40	9.6	55.2	Ball	2RTH6
3⅛"	1½"	3⅛"	—	75			2 13⁄16"	48VDC	Lead Wires	0.14	6.7	51.5	Ball	2RTH8
3⅛"	1½"	3⅛"	—	84			2 13⁄16"	48VDC	Lead Wires	0.19	9.1	55.2	Ball	2RTH7
3⅝"	1"	3⅝"	—	48			3¼"	12VDC	Lead Wires	0.135	1.6	32	Ball	6KD69
3⅝"	1"	3⅝"	—	45			3¼"	24VDC	Lead Wires	0.07	1.7	33	Ball	6KD73
3⅝"	1½"	3⅝"	—	123			3¼"	24VDC	Lead Wires	0.51	12.2	57.6	Ball	2RTJ3
4 11⁄16"	1½"	4 11⁄16"	—	138			4⅛"	12VDC	Lead Wires	0.83	6	48	Ball	6KD70
4 11⁄16"	1½"	4 11⁄16"	—	138			4⅛"	24VDC	Lead Wires	0.383	9.2	48	Ball	6KD74
4 11⁄16"	1½"	4 11⁄16"	—	170			4⅛"	24VDC	Lead Wires	0.57	13.7	51	Ball	2RTJ7
Wet-Location Square, DC														
4 11⁄16"	1"	4 11⁄16"	—	108	IP55	PBT Plastic	4⅛"	24VDC	Lead Wires	0.207	5	44.5	Ball	31CC85
4 11⁄16"	1½"	4 11⁄16"	—	93			4⅛"	12VDC	Lead Wires	0.241	2.9	37	Ball	31CC89
Standard Oblong, AC														
6¾"	2"	5⅞"	—	239/203	IP20	Cast Aluminum	6⅜"	115VAC	Terminals	0.22/0.23	25/27	58/51	Ball	4WT42
6¾"	2"	5⅞"	—	239/203			6⅜"	230VAC	Terminals	0.11/0.11	25/26	55/51	Ball	4WT43
6¾"	2"	5 15⁄16"	—	239/203		Aluminum	6⅜"	115VAC	Terminals	0.23/0.22	25/27	58/51	Ball	2RTE3
6¾"	2"	5 15⁄16"	—	200/180			6⅜"	115VAC	Lead Wires	0.48/0.59	36/39	55/52	Ball	2RTK7
Standard Round, AC														
—	2"	—	6¾"	239/203	IP20	Cast Aluminum	6⅜"	115VAC	Terminals	0.23/0.22	25/27	58/51	Ball	3VU69
—	3½"	—	10"	665/600			9 1⁄16"	115VAC	Terminals	0.23/0.23	23/26	52/50	Ball	4WT44
—	3½"	—	10"	665/600			9 1⁄16"	115VAC	Lead Wires	0.23/0.23	23/26	57/54	Ball	3VU71
—	3½"	—	10"	800/870		Aluminum	9 1⁄16"	115VAC	Terminals	1.1/0.83	88/120	70/68	Ball	2RTK9
—	3½"	—	10"	665/600		Cast Aluminum	9 1⁄16"	230VAC	Lead Wires	0.13/0.15	30/30	52/50	Ball	3VU67
Standard Skeleton, AC														
4 7⁄16"	1½"	4 7⁄16"	—	105/80	IP20	Aluminum	4⅛"	115VAC	Lead Wires	0.18/0.21	18/20	47/41	Ball	2VUW6
4 7⁄16"	1½"	4 7⁄16"	—	110/92			4⅛"	115VAC	Lead Wires	0.24/0.26	20/22	50/45	Ball	2VUW4
4 7⁄16"	1½"	4 7⁄16"	—	110/92			4⅛"	230VAC	Lead Wires	0.12/0.14	21/22	50/45	Ball	2VUW8


No. 4YD87


No. 4YD78

Compact Axial Fan Guards and Filters

These are fan attachments that block out debris to reduce the risk of damage to fans and enclosure components. They're sized to fit compact axial fans.

Fan Guards—These allow airflow while providing a protective barrier for the blades. Steel guards are nickel chrome-plated.

Shielded EMF Fan Guards—These are tightly woven metal mesh guards that protect fan blades, filter out contaminants, and provide EMI-RFI shielding.

Fan Guards with Filters—These fan guards combine a protective barrier for fan blades and filtering media for cleaning air. These plastic assemblies have a fan guard, replaceable filter media, and retainer.

Replacement Filters—These remove debris and contaminants from the air as it's pulled into a fan. 30 PPI media removes dust and contaminating particles; 45 PPI media is for heavy dust conditions.

For Fan Size	D	Mounting Eye O.C.	Frame Material*	Item No.
Square Fan Guards				
2⅜"	1 1⁄64"	(4) 1 31⁄32"	Steel	3RP19
	3⁄16"	(4) 1 15⁄16"	304 SS	31CC73
3⅛"	13⁄64"	(4) 2 13⁄16"	Steel	4YD96
	¼"	(4) 2 13⁄16"	304 SS	31CC74
	¼"	(4) 2 13⁄16"	Plastic	31CC60
3⅝"	1 1⁄64"	(4) 3¼"	Steel	2RTA5
	¼"	(4) 3¼"	304 SS	31CC75
	9⁄32"	(4) 3¼"	Plastic	31CC67
4 11⁄16"	7⁄32"	(4) 4⅛"	Steel	4YD87
	¼"	(4) 4⅛"	304 SS	31CC76
	5⁄16"	(4) 4⅛"	Plastic	31CC64
6¾"	⅜"	(2) 6⅜"	304 SS	31CC77
10"	¼"	(4) 6⅞"	304 SS	31CC78
	¼"	(4) 6⅞"	Steel	4YD82
Round Fan Guards				
6¾"	¼"	(2) 6⅜"	Steel	4YD91
	⅜"	(2) 6⅜"	Plastic	3RP15
Square Shielded EMF Fan Guards				
3⅛"	1 1⁄64"	(4) 2 13⁄16"	Aluminum	4YD77
3⅝"	1 1⁄64"	(4) 3¼"	Aluminum	2RTA8
4 11⁄16"	1 1⁄64"	(4) 4⅛"	Aluminum	4YD78
Square Fan Guards with Filters				
2⅜"	¼"	(4) 1 31⁄32"	Plastic	31CC58
3⅛"	⅜"	(4) 2 13⁄16"	Plastic	31CC63
	25⁄64"	(4) 2 13⁄16"	Plastic	4YD95
4 11⁄16"	13⁄32"	(4) 4⅛"	Plastic	31CC66
Round Fan Guards with Filters				
6¾"	⅜"	(2) 6⅜"	Plastic	3RP16

H	D	Media Material	PPI Rating	Item No.
Square Replacement Filters for Plastic Fan Guards with Filters				
2 15⁄16"	⅛"	Polyurethane Foam	45	4YD93
3 1⁄16"	⅛"		30	31CC59
3⅝"	⅛"		30	31CC71
4 9⁄16"	⅛"		30	31CC62
4 9⁄16"	⅛"		45	31CC65

** 304 SS = 304 Stainless Steel.*


No. 4YD79

Cord Sets

UL Recognized Component; CSA Certified Component.

Plug Head Config.	L	Voltage	NEMA Plug Config.	Item No.
Cord Set With Plug				
45°	72"	115VAC	1-15P	3RP14
90°	72"	115VAC	5-15P w/ Ground Lead	4YD81 *
Cord Set With Wire Leads				
45°	24"	115/230VAC	Hardwire	3RP10
45°	36"	115/230VAC	Hardwire	3RP12
90°	24"	115/230VAC	Hardwire	4YD79

** Includes integral 3" ground wire with ring terminal.*

H	D	W	Dia.	IP Rating	Housing Material	Mounting Eye O.C.	Voltage	Electrical Connection	Amps	Watts	Sound Level	Mfr. Model	Item No.	
Standard Square, AC														
8⅞"	3⅜"	8⅞"	—	IP44	Cast Aluminum	9⁷⁄₁₆"	115VAC	Terminals	0.58/0.7	64/80	61	W2E200-HK86-01	**5AGC8**	
8⅞"	3⅜"	8⅞"	—			9⁷⁄₁₆"	230VAC	Terminals	0.29/0.35	64/80	61	W2E200-HK38-01	**5AGC9**	
11"	3⅜"	11"	—			11⅝"	115VAC	Terminals	1.42	175	73	W2E250-HJ32-01	**5AGD4**	
Wet-Location Square, AC, Energy Efficient														
3³⁄₁₆"	1¼"	3³⁄₁₆"	—	IP65	Fiberglass Reinforced Plastic	2¹³⁄₁₆"	115/230VAC	Lead Wires	0.12	7.5	48	AC8300HU-008	**5AFY6**	
3⅝"	1½"	3⅝"	—			3¼"	115/230VAC	Lead Wires	0.18	11	55	AC3200JHU	**5AFY7**	
Standard Square, AC, Energy Efficient														
4¹¹⁄₁₆"	1½"	4¹¹⁄₁₆"	—	IP20	Fiberglass Reinforced Polyester	4⅛"	115VAC	Terminals	0.082	4.4	42	ACi4410HH	**40N384**	
4¹¹⁄₁₆"	1½"	4¹¹⁄₁₆"	—			4⅛"	230VAC	Terminals	0.041	4.4	42	ACi4420HH	**40N385**	
Standard Square, DC														
2²¹⁄₆₄"	1"	2½"	—	IP20	Fiberglass Reinforced Plastic	2"	12VDC	Lead Wires	0.3	3.5	43	622HH	**5AFZ3**	
2²¹⁄₆₄"	1"	2½"	—			2"	24VDC	Lead Wires	0.15	3.6	43	624HH	**5AFZ4**	
3⁹⁄₆₄"	1½"	3-1/7"	—			2¹³⁄₁₆"	12VDC	Lead Wires	0.83	10	55	8212JN	**5AFZ5**	
3⁹⁄₆₄"	1½"	3-1/7"	—			2¹³⁄₁₆"	24VDC	Lead Wires	0.42	10	55	8214JN	**5AFZ6**	
3⅝"	1½"	3⅝"	—			3¼"	12VDC	Lead Wires	0.75	9	55	3212JH	**5AFZ7**	
3⅝"	1½"	3⅝"	—			3¼"	24VDC	Lead Wires	0.38	9	55	3214JH	**5AFZ8**	
4²¹⁄₃₂"	1"	4⅔"	—			4⅛"	24VDC	Lead Wires	0.5	12	55	4414FNH	**5AGA0**	
4²¹⁄₃₂"	1½"	4⅔"	—		Aluminum	4⅛"	12VDC	Lead Wires	1.75	21	60	DV4112N	**5AFZ1**	
4²¹⁄₃₂"	1½"	4⅔"	—			4⅛"	24VDC	Lead Wires	1.25	30	67	4114NH4	**5AGA2**	
4²¹⁄₃₂"	1½"	4⅔"	—			4⅛"	24VDC	Lead Wires	2.5	65	73	4114NH6	**5AGA4**	
4²¹⁄₃₂"	1½"	4⅔"	—			4⅛"	24VDC	Lead Wires	0.88	21	60	DV4114N	**5AFZ2**	
4¹¹⁄₁₆"	1"	4¹¹⁄₁₆"	—		Fiberglass Reinforced Plastic	4⅛"	12VDC	Lead Wires	1.0	12	55	4412FNH	**5AFZ9**	
4¹¹⁄₁₆"	1½"	4¹¹⁄₁₆"	—		Aluminum	4⅛"	12VDC	Lead Wires	2.67	32	67	4112NH4	**5AGA1**	
4¹¹⁄₁₆"	1½"	4¹¹⁄₁₆"	—			4⅛"	24VDC	Lead Wires	1.88	45	70	4114NH5	**5AGA3**	
8⅞"	3⅛"	8⅞"	—	IP42	Cast Aluminum	9⁷⁄₁₆"	24VDC	Terminals	2.6	55	60	W1G200-HH77-52	**5AGA7**	
Standard Square, DC, 3300N Series														
3⅝"	1¹⁷⁄₆₄"	3⅝"	—	IP20	Fiberglass Reinforced Plastic	3¼"	12VDC	Lead Wires	—	0.8	24	3312NL	**39RV73**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	12VDC	Lead Wires	—	1.3	29	3312NM	**39RV76**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	12VDC	Lead Wires	—	1.8	35	3312NN	**39RV71**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	12VDC	Lead Wires	—	2.8	38	3312NH	**39RV66**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	12VDC	Lead Wires	—	3.4	42	3312NHH	**39RV72**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	12VDC	Lead Wires	—	6.7	50	3312NH3	**39RV69**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	24VDC	Lead Wires	—	1.8	35	3314NN	**39RV67**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	24VDC	Lead Wires	—	2.6	38	3314NH	**39RV75**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	24VDC	Lead Wires	—	3.5	42	3314NHH	**39RV70**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	24VDC	Lead Wires	—	6.7	50	3314NH3	**39RV65**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	48VDC	Lead Wires	—	1.8	35	3318NN	**39RV68**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	48VDC	Lead Wires	—	3.5	38	3318NH	**39RV77**	
3⅝"	1¹⁷⁄₆₄"	3⅝"	—			3¼"	48VDC	Lead Wires	—	6.5	50	3318NH3	**39RV74**	
Standard Round, AC														
—	3⅛"	—	9⅛"	IP44	Cast Aluminum	9⁷⁄₁₆"	115VAC	Terminals	0.78	87	70	W2E208-BA86-51	**5AGD0**	
—	3⅛"	—	9⅛"			9⁷⁄₁₆"	230VAC	Terminals	0.39	87	70	W2E208-BA20-51	**5AGD1**	
Wet-Location Round, AC, Energy Efficient														
—	2"	—	6¾"	IP55	Fiberglass Reinforced Polypropylene	6⅜"	115/230VAC	Lead Wires	0.25	14	50	AC6200NMU-006	**5AFY9**	
—	2³⁄₃₂"	—	6¾"			6⅜"	115VAC	Lead Wires	0.38	24	56	W1G130-AA49-01	**40N386**	
—	2³⁄₃₂"	—	6¾"			6⅜"	230VAC	Lead Wires	0.19	24	56	W1G130-AA25-01	**40N387**	
—	3⅛"	—	9⅞"			9⁵⁄₁₆"	115VAC	Lead Wires	0.11	8	42	W1G200-EC91-27	**5AGC2**	
—	3⅛"	—	9⅞"			9⁵⁄₁₆"	115VAC	Lead Wires	0.48	31	55	W1G200-EC95-47	**5AGC4**	
—	3⅛"	—	9⅞"			9⁵⁄₁₆"	230VAC	Lead Wires	0.07	8	42	W1G200-EC87-25	**5AGC3**	
—	3⅛"	—	9⅞"			9⁵⁄₁₆"	230VAC	Lead Wires	0.24	31	55	W1G200-EC91-45	**5AGC5**	
Standard Round, AC (Requires Capacitor)														
Includes Discharge Grille														
—	3½"	—	11"	IP44	Galvanized Steel	9⅞"	115VAC	Lead Wires	0.74	77	62	W2E200-CH86-70	**5AGC6**	
—	3¾"	—	12½"			11⅝"	115VAC	Lead Wires	1.47	160	71	W2E250-CL08-70	**5AGD2**	*
—	4½"	—	15⅝"			15"	115VAC	Lead Wires	1.26	120	64	W4E315-CS22-70	**5AGD5**	*
—	4¾"	—	20¾"			19⅞"	230VAC	Lead Wires	1.1	240	73	W4E400-CP02-70	**5AGD7**	*
Includes Inlet Grille														
—	3¾"	—	12½"	IP44	Galvanized Steel	11⅝"	115VAC	Lead Wires	1.48	160	71	W2E250-CM08-70	**5AGD3**	*
—	4½"	—	15⅝"			15"	115VAC	Lead Wires	1.26	120	64	W4E315-CS22-71	**5AGD6**	*
—	4¾"	—	20¾"			19⅞"	230VAC	Lead Wires	1.1	240	73	W4E400-CP02-71	**5AGD8**	*
Standard Round, DC														
6¼"	2"	6¼"	6¾"	IP20	Metal	7¹⁄₁₆"	24VDC	Lead Wires	1.67	40	65	DV6424	**5AFZ0**	
Includes Discharge Grille														
—	3½"	—	11"	IP42	Galvanized Steel	9⅞"	24VDC	Lead Wires	2.6	55	60	W1G200-CH77-52	**5AGA5**	
—	3½"	—	15⅝"			14¹⁵⁄₁₆"	24VDC	Lead Wires	4.0	90	65	W1G300-CE19-54	**5AGC0**	
Includes Inlet Grille														
—	3½"	—	11"	IP42	Galvanized Steel	9⅞"	24VDC	Lead Wires	2.6	55	60	W1G200-CI77-52	**5AGA6**	
—	3½"	—	12⅝"		Cast Aluminum	9⅞"	24VDC	Lead Wires	5.0	105	70	W1G250-CI37-52	**5AGA9**	

Not all-position mounting.



Square
No. 5AGC8



Round
No. 5AGD0

ebmpapst

Compact Axial Fans

- All-position mounting
- Ball bearings

These are equipment-cooling fans that regulate temperatures in enclosures. They can mount into cutouts that match the fan's shape or into existing louvered vents. DC units are fully speed controllable and reverse polarity protected. AC units are thermal overload protected. For IP68 (Ingress Protection Waterproof and Dust Proof) Axial Fans, see Grainger.com® using keywords "axial ip68".

Energy-Efficient, Square and Round— Driven with EC motor that saves energy and extends service life.

Standard Square, DC—Driven with brushless DC motor to extend service life. These fans also have electronically-commutated drives with electronic protection against reverse polarity. Many fans can be operated on voltages up to 50% lower and 25% higher than their nominal voltage (see Voltage in table) to enable the air performance to be adapted to the cooling requirements.

Standard Square, DC, 3300N Series— These fans provide lower noise levels and reduced power consumption than other compact axial fans.

Compact Axial Fan Guards

ebmpapst

These wire guards enclose the fan's blades to help shield them from debris or accidental contact.

For Fan Size	D	Mounting Eye O.C.	For Use With	Mfr. Model	Item No.	
Square Fan Guards						
2⅜"	1³⁄₆₄"	(4) 1³¹⁄₃₂"	5AFZ3/5AFZ4	LZ28	**6KXZ7**	
3³⁄₁₆"	3⁄₁₆"	(4) 2¹³⁄₁₆"	5AFZ5/5AFZ6	LZ22N	**6KXZ8**	
7⅛"	1¹⁄₃₂"	(4) 9⁷⁄₁₆"	5AGA7/5AGC8/5AGC9	78128-2-4039	**6KXZ9**	
9¹³⁄₁₆"	1¹⁄₃₂"	(4) 11³⁹⁄₆₄"	5AGD4	9418-2-4039	**6KYA0**	

For Fan Size	D	Mounting Eye O.C.	For Use With	Mfr. Model	Item No.
Round Fan Guards					
6¾"	1⁵⁄₆₄"	(2) 7³⁄₃₂"	5AFZ0	LZ39	**6KYA2**
6¾"	1⁵⁄₆₄"	(4) 6⅜"	5AFY8/5AFY9	LZ37	**6KYA3**
6¾"	1⁵⁄₆₄"	(4) 6⅜"	5AFY9	LZ37-2	**6KYA4**
6¾"	1⁵⁄₆₄"	(4) 6⅜"	5AFZ0	LZ38	**6KYA1**
9⅛"	1¹⁄₃₂"	(4) 9⁷⁄₁₆"	5AGD0/5AGD1	35138-2-4039	**6KYA6**
9⅛"	⅞"	(4) 9⁷⁄₁₆"	5AGD0/5AGD1	35139-2-4039	**6KYA5**



No.
6KXZ7

Find Compact Blowers and Equipment Rack Air-Distribution Fans on Grainger.com®

Compact Blowers direct airflow at a 90° angle from the face of the fan for thorough coverage within an enclosure and have a slim profile for use in highly compact rack-mount servers.

Equipment Rack Air-Distribution Fans fit into rack enclosures and distribute air to eliminate hot spots and regulate temperatures.



Blower
No. 32MY99



Rack Air Fan
No. 6PYD2

Direct Drive Corrosion-Resistant Exhaust Fans

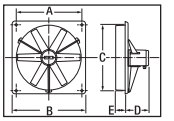
Multifan

- Totally enclosed motors
- Sealed ball bearings
- Speed controllable (except No. 21A080); 1-phase fans accept Controller No. 1DGZ5, sold separately on Grainger.com®
- Horizontal or vertical mount
- Polypropylene propellers
- Corrosion-resistant fiberglass venturi frames
- OSHA-compliant intake guards

Engineered for continuous operation in highly corrosive environments, outdoors, and in wet applications. Noncombustible motor cap and sound-absorbing, antivibration cast-aluminum supports. UL Listed and CSA Certified.



No. 21A077



Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.050" SP*	CFM @ 0.125" SP*	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	Sq. Opening Req. (in.)	120 V AC, 1-Phase Full Load Amps	120 V AC, 1-Phase Item No.	230/460 V AC, 3-Phase Full Load Amps	230/460 V AC, 3-Phase Item No.	240 V AC, 1-Phase Full Load Amps	240 V AC, 1-Phase Item No.	265/460 V AC, 3-Phase Full Load Amps	265/460 V AC, 3-Phase Item No.
Medium-Performance																	
10 in	880	840	800	13 3/16	14 13/16	10 7/16	7 13/16	2 13/16	10 1/2	.9	**21A081**	—	—	.4	**21A082**	—	—
12 in	1375	1330	1270	15 9/16	17 7/16	13 3/8	7 9/16	3 5/16	13 1/2	1.0	**21A087**	.5/.3	**21A098**	.5	**21A092**	—	—
14 in	2160	2100	2025	17 1/2	19 7/16	15 3/8	7 9/16	3 5/16	15 1/2	1.7	**21A088**	.9/.5	**21A099**	.9	**21A093**	—	—
16 in	2930	2830	2710	19 1/2	21 3/8	17 5/16	7 9/16	3 5/16	17 7/16	2.2	**21A089**	1.0/.6	**21A101**	1.1	**21A094**	—	—
18 in	3750	3625	3500	21 7/16	23 3/8	19 5/16	7 9/16	3 5/16	19 7/16	3.3	**21A090**	1.2/.7	**21A102**	1.4	**21A095**	—	—
20 in	4900	4740	4590	23 3/8	25 1/2	21 1/4	7 9/16	3 5/16	21 3/8	3.3	**21A091**	—	—	1.8	**21A096**	1.9/1.1	**21A103**
22 in	6450	6150	5950	25 5/16	27 9/16	23 5/8	9 3/4	4 1/8	23 7/8	—	—	—	—	2.7	**21A083**	—	—
24 in	7250	7040	6265	28 1/8	30 1/2	26 3/8	9 3/4	4 1/8	26 1/2	5.9	**21A084**	—	—	2.8	**21A085**	—	—
24 in	7650	7400	7100	28 1/8	30 1/2	26 3/8	9 3/4	4 1/8	26 1/2	—	—	2.4/1.4	**21A104**	—	—	—	—
28 in	7900	7610	7370	31 1/8	33 7/16	29 3/16	9/3/04	4 1/08	29 1/2	—	—	—	—	3.0	**21A086**	—	—
28 in	7750	7285	6843	31 1/8	33 7/16	29 3/16	9 3/4	4 1/8	29 1/2	—	—	2.6/1.5	**21A105**	—	—	—	—
High-Performance																	
10 in	1250	1190	1170	13 3/16	14 13/16	10 7/16	7 13/16	2 13/16	10 1/2	—	—	—	—	1.0	**21A077**	—	—
12 in	2200	2050	1950	15 9/16	17 7/16	13 3/8	7 9/16	3 5/16	13 1/2	—	—	—	—	1.5	**21A078**	—	—
14 in	2950	2920	2880	17 1/2	19 7/16	15 3/8	7 9/16	3 5/16	15 1/2	—	—	—	—	1.9	**21A079**	—	—
24 in	10,700	10240	10050	28 1/8	30 1/2	26 3/8	9 3/4	4 1/8	25 1/2	—	—	6.1/3.5	**31EG81**	7.4	**21A080**	—	—
28 in	13,400	13100	12950	31 1/8	33 7/16	29 3/16	9 3/4	4 1/8	29 1/2	—	—	—	—	—	—	7.8	**21A106**

Performance shown is for installation Type A; free inlet, free outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).

Description	Mfr. Model	Item No.
Thermostats		
10A 1-Speed	T15-WD	**3C952**
10A 2-Speed	T15-2	**3C953**

Agricultural Exhaust Fans

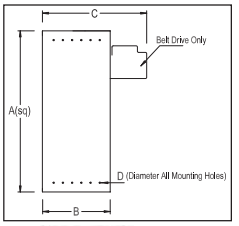
- Totally enclosed motors with sealed ball bearings
- Heavy-gauge galvanized frame withstands corrosive farm duty applications

All models have galvanized steel venturi panels and propellers, and 1" x 2" galvanized mesh intake and discharge guards. For humid, corrosive, nonexplosive, and nonhazardous environments such as livestock and poultry houses.

Note: OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel.

Direct-Drive—Shipped fully assembled.

Belt-Drive—Nos. 7DZ45 and 7DZ46 include motor, pulley, belt and motor plate; assembly required. Nos. 44YU10 and 44YU20 shipped without motor, but include drive sheaves, belt and motor plate; assembly required. Recommended motors: for No. 44YU10 use No. 4WNZ5; for No. 44YU20 use No. 3RCW9; both sold separately on Grainger.com®. Optional belt tensioner No. 45KF12 sold separately on Grainger.com®.





No. 44YU10

Prop. Dia. (in.)	No. of Blades	CFM @ Static Pressure Shown 0.000"	0.050"	0.100"	0.150"	CFM/Watt @ Static Pressure Shown 0.000"	0.050"	0.100"	0.150"	Voltage	Phase	Full Load Amps	HP	Motor RPM	Fan RPM	A (in.)	B (in.)	Opening Req. H (in.)	W (in.)	Item No.
With Motors																				
Direct-Drive																				
24	3	5618	5192	4845	4505	11.3	10.2	9.3	8.4	115/230	1	5.6/2.8	½	1100	1143	29¼	14½	30	30	**44YU13**
36	3	11077	10217	9381	8557	21.1	18.6	16.4	14.5	115/230	1	5.2/2.6	½	825	850	40⅛	14	40¾	40¾	**44YU07**
48	2	18926	17481	15973	14256	19.9	17.8	15.8	13.7	115/230	1	11.0/5.5	1	850	857	52⅛	17	52⅞	52⅛	**44YU08**
48	2	19001	17507	16097	14625	21.6	19	16.9	14.9	230/460	3	4.6/2.3	1	850	863	52⅛	17	52⅞	52⅛	**44YU15**
Belt-Drive																				
36	4	11598	10757	10052	9277	19.3	17	15.3	13.7	115/230	1	7.2/3.6	¾	1725	719	40⅛	14	41	41	**7DZ46**
48	3	19,608	18,228	16,773	15,347	21.6	19.5	17.3	15.4	115/230	1	9.0/4.5	1	1725	608	52⅛	17	52⅞	52⅛	**7DZ45**
Without Motors																				
Belt-Drive																				
36	4	11,598	10,757	10,052	9277	19.3	17	15.3	13.7	—	—	—	¾	1725	719	40⅛	14	41	41	**44YU10** *
48	3	19608	18228	16773	15347	21.6	19.5	17.3	15.4	—	—	—	1	1725	608	52⅛	17	52⅞	52⅛	**44YU20** **

CFM ratings are based on units tested with ¾ HP motor and fan speed of 719 rpm. ** CFM ratings are based on units tested with 1 HP motor and fan speed of 608 rpm.

Slant-Wall and Cone Exhaust Fans

- Totally enclosed motors with sealed ball bearings
- Corrosion-resistant extruded aluminum shutter with quick-release latches

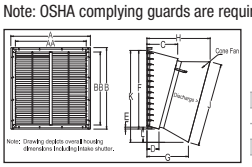
Venturi panel, housing, and propeller are corrosion-resistant galvanized steel. Heavy-gauge galvanized frame withstands humid, corrosive, nonexplosive, and nonhazardous environments such as livestock and poultry houses. Vertical mount, flush to inside of building. Each includes fan in housing, intake shutter, and discharge guard. CFM ratings are based on units tested with intake shutters and discharge guards, as well as discharge cones where applicable.

Note: OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel.

Slant-Wall—Discharge guard has 1" x 2" galvanized wire mesh. Shipped fully assembled.

Cone—Discharge cone increases fan performance and efficiency. Assembly required

- 2" corrosion-resistant circular discharge guard





No. 44YU17



No. 44YU18

Prop. Dia. (in.)	No. of Blades	CFM @ Static Pressure Shown 0.000"	0.100"	CFM/Watt @ Static Pressure Shown 0.000"	0.100"	Voltage	Full Load Amps	HP	Fan RPM	A (in.)	AA (in.)	B (in.)	BB (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	K (in.)	L (in.)	Opening Req. H (in.)	W (in.)	Item No.
Slant-Wall, Direct-Drive																									
36	3	10,770	9390	19.3	15.5	115/230	5.2/2.6	½	839	44	39½	45¼	40⅛	27	16¾	4½	45¾	—	—	—	—	—	42⅞	40⅞	**44YU17**
48	2	19,100	16,500	18.1	14.8	115/230	11.0/5.5	1	855	56	51½	57⅛	53¼	29¼	15⅝	3	58⅛	—	—	—	—	—	55½	52⅞	**44YU12**
Slant-Wall, Belt-Drive (Includes No. 45KF12 Automatic Belt Tensioner)																									
36	4	11,420	10,170	19.4	15.9	115/230	6.4/3.2	¾	705	44	39½	45¼	40⅛	27	16¾	4½	45¾	—	—	—	—	—	42⅞	40⅞	**44YU09**
48	3	21,100	18,900	20.4	17.3	115/230	8.6/4.3	1	613	56	51½	57⅛	53¼	29¼	15⅝	3	58⅛	—	—	—	—	—	55½	52⅞	**44YU14**
54	3	26,889	23,578	22.3	18.2	115/230	8.6/4.3	1	573	62⅝	58⅛	64¾	60⅛	34⅝	19½	4⅛	66	—	—	—	—	—	62½	59½	**44YU11** *
Cone, Belt-Drive (Includes No. 45KF12 Automatic Belt Tensioner)																									
36	4	12,200	10,720	23	17.7	115/230	6.4/3.2	¾	708	44	39½	45¼	40⅛	27	16¾	4½	45¾	31⅝	43⅜	45½	52⅝	11¼	42⅞	40⅞	**44YU16**
48	3	22,500	20,200	22.9	19.1	115/230	8.6/4.3	1	609	56	51½	57⅛	53¼	22	8½	1¼	56⅛	34	46⅞	59½	62	7⅛	55½	52⅞	**44YU18**
54	3	33,300	30,200	22.9	18.9	230	6.4	1½	600		58⅝		58¾	1½	1½	—	—	41	41	67	61	4	56½	56½	**49YW54**
54	4	29,500	26,500	21.5	18.1	230	6.0	1½	476	62⅜	58⅛	64¾	60⅛	28¾	13⅛	4⅛	64½	33¾	51½	66⅝	74¼	13⅜	62½	59½	**49YW55**
54	3	27,300	24,200	23.6	19.2	115/230	8.6/4.3	1	560	62⅜	58⅛	64¾	60⅛	28¾	13⅛	4⅛	64½	33¾	51½	66⅝	74¼	13⅜	62½	59½	**44YU19**

Not BESS tested.

High-Efficiency Cone Exhaust Fans

Multifan



No. 31HM66

- Durable fiberglass frame
- Polypropylene blades
- PVC intake shutters

Feature stainless steel and aluminum hardware for maximum corrosion resistance, and include a housing, cone, and exhaust screen. Nos. 31HM66 to 31HM73 are direct drive; Nos. 31HM74 and 31HM76 are belt drive with an integral belt tensioner.

Prop. Dia. (in.)	No. of Blades	CFM @ Static Pressure Shown* 0.000"	0.050"	0.100"	Volts @ 60 Hz	Phase	Full Load Amps	Watts	HP	Fan RPM	Max. H (in.)	W (in.)	Depth (in.)	Opening Req. H (in.)	W (in.)	Item No.
18	6	4450	4270	4070	240	1	1.5	314	⅓	1680	27¼	27¼	30¾	23½	23½	**31HM66**
	6	4560	4370	4170	240	3	1.51	331	⅓	1680	27¼	27¼	30¾	23½	23½	**31HM67**
24	5	7700	7530	7320	240	1	3.0	658	⅔	1085	34⅝	34⅝	35¾	30¾	30¾	**31HM68**
	5	8170	7820	7420	240	1	2.4	544	⅔	1125	34⅝	34⅝	35¾	30¾	30¾	**31HM70**
	5	8160	7780	7380	240	3	2.0	471	½	1120	34⅝	34⅝	35¾	30¾	30¾	**31HM71**
36	3	12,500	11,900	11,200	240	1	3.6	730	¾	815	50½	50½	50½	45¼	45¼	**31HM72**
	3	12,520	11,890	11,190	240	3	3.6	700	¾	815	50½	50½	50½	45¼	45¼	**31HM73**
50	3	28,200	26,800	25,300	240	1	6.45	1400	1½	570	69½	69½	62¾	56½	56½	**31HM74**
54	3	31,100	29,400	27,500	240	1	5.76	1238	1½	520	72⅝	72⅝	64½	64⅞	64⅞	**31HM76**

CFM ratings are based on units tested with intake and discharge guards.

Dayton

Shutter-Mount Exhaust Fans

- Mount: vertical only
- Motors: totally enclosed, 115VAC, 60 Hz, thermally protected
- Max. inlet/ambient temp.: 104°F
- 7" through 24" dia. propellers are aluminum; 30" and 36" dia. propellers are galvanized steel
- OSHA-compliant gray polyester powder-coated wire guards

Fans are fully assembled with shutters and prepunched mounting holes; simply frame an opening and mount. UL and C-UL Listed.



No. 484X38

Blade Dia.	CFM @ 0.000" SP	CFM @ 0.125" SP	Motor RPM	Exhaust/ Supply Fan Motor HP	Full Load Amps	Bearing Type	Sones @ 0.000" SP @ 5 ft.	Speed Control Item No.	H	W	Max. Depth*	Square Opening Req.	No. of Blades	Item No.
Speed Controllable														
7 in	250	—	1550	1/25	0.4	Ball	5.37	48C172	11 1/8"	11 1/8"	8"	8 1/2 in	5	**484X36**
10 in	600	355	1550	1/25	0.55	Ball	6.19	48C172	13 1/8"	13 1/8"	8"	10 1/2 in	5	**484X37**
12 in	775	475	1550	1/15	0.7	Ball	5.9	48C172	15 1/8"	15 1/8"	8"	13 in	3	**484X38**
16 in	1095	416	1550	1/20	0.85	Ball	6.39	48C172	19 1/8"	19 1/8"	13 5/8"	17 in	3	**1HLA3**
18 in	1736	1108	1075	1/15	0.85	Ball	7.4	48C172	21 1/8"	21 1/8"	14 1/2"	19 in	3	**1HLA4**
20 in	2830	2255	1075	1/4	2.75	Ball	11.3	48C172	23 1/8"	23 1/8"	12"	21 in	3	**484X43**
24 in	4244	2676	1075	1/4	2.75	Ball	7.0	48C172	27 1/8"	27 1/8"	16 3/4"	25 in	3	**1HLB3**
1-Speed														
18 in	2590	2190	1725	1/4	2.75	Ball	7.28	—	21 1/8"	21 1/8"	12"	19 in	3	**484X41**
20 in	3950	2445	1725	1/4	2.75	Ball	7.01	—	23 1/8"	23 1/8"	12"	21 in	3	**484X42**
	4700	3070	1725	1/3	3.3	Ball	8.1	—	23 1/8"	23 1/8"	13"	21 in	3	**484X44**
24 in	4600	3040	1075	1/3	3.3	Ball	7.42	—	27 1/8"	27 1/8"	15"	25 in	3	**484X47**
30 in	5090	3435	825	1/3	3.3	Ball	7.01	—	33 1/8"	33 1/8"	16"	31 in	3	**484X49**
36 in	8225	6485	825	1/2	6	Ball	8.24	—	39 1/8"	39 1/8"	17"	37 in	3	**484X50**
2-Speed														
24 in	4610/3485	3525/1800	1075/945	1/3	3.5	Ball	7.42/6.91	1DGZ9	27 1/8"	27 1/8"	15"	25 in	3	**484X48**

**** Max. depth does not include open louvers.***

Dayton

Fan Controls

Nos. 48C172 and 48C173—Can operate multiple direct-drive fans, if total amp draw does not exceed control's amp rating. Fit single gang box; mounting screws included.

No. 1DGZ9—Mounts on standard 4" x 2" single gang box. SPDT (center off).



No. 48C172



No. 1DGZ9



Description	Voltage	Max. Amps	For Use With	Item No.
Rotary, Adjustable	115	6	Dayton® & Other Compatible Speed Controllable Ventilators & Fans	**48C172**
		10		**48C173**
Toggle, 2 Speed Switch	120	15	1HLB1 Shutter-Mounted Exhaust Fan & Other 2-Speed Applications	**1DGZ9**

Dayton

Corrosion-Resistant Shutter-Mount Exhaust Fans

- Mount: vertical only
- Motors: totally enclosed, 115V, 60 Hz, thermally protected
- Max. inlet/ambient temp.: 104°F
- Fiberglass-reinforced polypropylene propellers
- OSHA-compliant epoxy-coated wire guards

Constructed with fiberglass shutter and frame and stainless steel hardware, for superior resistance to corrosive gases and vapors. UL and C-UL Listed.

Note: Not designed for laboratory hood exhaust or explosive atmospheres.



No. 1BLH8

Blade Dia.	CFM @ 0.000" SP	CFM @ 0.125" SP	Motor RPM	Exhaust/ Supply Fan Motor HP	Full Load Amps	Bearing Type	Sones @ 0.000" SP @ 5 ft.	H (in.)	W (in.)	Max. Depth (in.)	Sq. Opening Req. (in.)	No. of Blades	Item No.
10"	652	363	1645	1/20	0.6	Sealed Ball	6.6	13	13	12 15/16	10 1/2	4	**1BLH6**
12"	900	712	1625	1/8	1.3	Sealed Ball	6.8	15	15	15 5/32	13	4	**1BLH8**
16"	2052	1,296	1625	1/6	3	Sealed Ball	7.1	18 29/32	18 29/32	15 5/32	17	4	**1BLJ1**
18"	2616	1,940	1075	1/4	2.7	Sealed Ball	7.2	21	21	16 31/32	19	8	**1BLJ3**
20"	3800	2,920	1075	1/3	2.8	Sealed Ball	7.2	22 27/32	22 27/32	17 1/4	21	8	**1BLJ5**
24"	5448	3,920	1075	1/2	4.8	Sealed Ball	7.2	27 3/32	27 3/32	18 3/8	25	8	**1BLJ7**

CANARM HVAC

Hazardous Location Direct-Drive Exhaust Fans

Vertical-mount fans require little maintenance and are easy to install. All models feature a totally enclosed, ball bearing motor with thermal overload protection. The fan blades are constructed of well-balanced, heavy-gauge aluminum. Designed with a rugged steel welded box housing that has a durable, powder-coated finish. The aluminum louver shutters are supported by long life nylon bushings. Heavy wire chrome-plated OSHA guards provide protection on intake side of fan. All fans are shipped assembled.



No. 23N613

Blade Dia.	CFM @ 0.000" SP	CFM @ 0.250" SP	Fan Voltage	Phase	Exhaust/ Supply Fan Motor HP	Motor RPM	Full Load Amps	No. of Blades	Mfr. Model	Item No.
8"	320	—	115/208-230VAC	1	1/3	1725	6.6/3.3	3	SD08-XPF	**31EE17**
10"	620	—							SD10-XPF	**31EE18**
12"	1640	1390							SD12-XPF	**23N613**
18"	3200	2920							SD18-XPF	**23N614**
24"	5500	5100							SD24-XPF	**23N615**

Find Quiet-Design Venturi Fans on page 2931.

Direct-Drive Venturi Exhaust Fans

- Mount: vertical With Intake Guards; vertical or horizontal Without Intake Guards
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings, except sleeve bearings on Nos. 10D954 to 10D956
- Max. ambient temp.: 104°F
- Aluminum propellers
- Nos. 10D952 to 10D959 are speed controllable (No. 48C172 sold separately on page 2955)

Galvanized frame and finish. UL and C-UL Listed.

Note: OSHA-complying guards (included with select models) are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

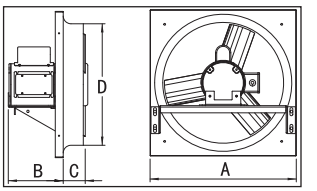
On Grainger.com®, search by Grainger Item Number and look for Optional Accessories or Related Products. Automatic shutters recommended.

Commercial Units—Quietly exhaust high volumes of air. Great for ventilating schools, offices, storage facilities, and light manufacturing and assembly areas.

Industrial Units—Exhaust larger volumes of air at higher static pressures. For use in factories, foundries, and other industrial environments.


No. 10D963


No. 10D989



Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Fan Voltage	Phase	Exhaust/ Supply Fan Motor HP	Motor RPM	Full Load Amps	Sones @ 0.000" SP @ 5 ft.#	No. of Blades	Item No.
Commercial Units																
With Intake Guards																
8 in	12	5	2⅜	8¼	466	329	170	117	115 V AC	1	1/30	1775	0.6	6.8	5	**10D952**
10 in	14	5	2⅜	10¼	752	641	431	297	115 V AC	1	1/30	1650	0.6	9.4	5	**10D953**
12 in	16	5½	2⅞	12¼	912	753	541	—	115 V AC	1	1/30	1650	0.6	6	3	**10D954**
14 in	18	5	2⅝	14¼	1152	958	652	461	115 V AC	1	1/20	1650	1	9.4	3	**10D955**
16 in	20	5	2¾	16⅜	1334	1045	704	490	115 V AC	1	1/20	1650	1	10.2	3	**10D956**
18 in	22	7	3¾	18½	2652	2316	1837	1029	115 V AC	1	¼	1155	2.8	15.5	3	**10D957**
	22	7	3	18½	3085	2880	2610	2306	115/230 V AC	1	⅓	1750	3.3/1.7	17.5	3	**10D960**
20 in	24	7	3⅜	20⅝	3647	3280	2629	1781	115 V AC	1	¼	1150	2.8	15.3	3	**10D958**
24 in	28	7	3¼	24¾	4240	2502	2919	2102	115 V AC	1	¼	1150	2.8	17.2	3	**10D959**
	28	7	3¾	24½	4770	4198	3498	2764	115/230 V AC	1	⅓	1150	3.3/1.8	16.6	3	**10D962**
Without Intake Guards																
12 in	16	7	4	12¼	1589	1419	1150	765	115/230 V AC	1	¼	1750	2.8/1.5	16.4	4	**10D971**
16 in	20	7	3⅛	16⅜	2548	2329	2048	1800	115/230 V AC	1	¼	1620	2.8/1.5	18.4	4	**10D972**
18 in	22	7	3¾	18½	3498	3350	3138	2841	115/230 V AC	1	⅓	1750	3.3/1.7	20	3	**10D973**
	22	7	3⅜	18½	3477	3244	2968	2608	208-230/460 V AC	3	½	1700	1.5-1.6/0.8	18.7	3	**10D974**
20 in	24	7	3⅜	20⅝	4240	3774	3223	2438	115/230 V AC	1	⅓	1172	3.3/1.8	19.8	3	**10D975**
	24	7½	5¾	20⅝	4495	4134	3562	2926	115/230 V AC	1	½	1150	5.4/2.8	18	3	**10D976**
	24	7½	5	20⅝	4452	4134	3731	2926	208-230/460 V AC	3	½	1125	2.1-2.3/1.2	14.9	3	**10D977**
24 in	28	8	4¼	24½	5216	4622	3604	2968	115/230 V AC	1	⅓	1100	3.3/1.8	18	3	**10D978**
	28	8	4⅞	24½	5300	4791	4198	3286	115/230 V AC	1	½	1076	5.4/2.8	19.1	3	**10D979**
	28	8	4⅜	24½	5088	4622	4028	3329	208-230/460 V AC	3	½	1125	2.1-2.3/1.2	14.3	3	**10D980**
30 in	34	8½	3¾	30½	9859	9223	8162	6996	115/230 V AC	1	¾	1150	7.5/3.8	22	3	**10D981**
	34	8½	3½	30½	9541	8799	7887	6678	208-230/460 V AC	3	¾	1150	3.6-3.8/1.9	27	3	**10D982**
Industrial Units																
With Intake Guards																
12 in	16	7	2½	12¼	1450	1346	1219	1049	115/230 V AC	1	¼	1772	2.8/1.5	11.7	5	**10D963**
16 in	20	7	2¾	16⅜	2883	2650	2417	2120	115/230 V AC	1	¼	1750	2.8/1.5	16.8	3	**10D964**
18 in	22	7	2½	18½	3201	2947	2650	2311	115/230 V AC	1	¼	1739	2.8/1.5	18.8	3	**10D965**
20 in	24	7	2¼	20⅝	3456	3074	2693	2205	115/230 V AC	1	¼	1740	2.8/1.5	17.4	3	**10D966**
	24	7	2¼	20⅝	4134	3710	3329	2883	115/230 V AC	1	⅓	1710	3.3/1.7	20	3	**10D967**
	24	7½	2	20⅝	4558	4155	3753	3329	115/230 V AC	1	¾	1724	7.0/3.5	22	3	**10D968**
24 in	28	7	3¼	24½	4473	3943	3392	2799	115/230 V AC	1	⅓	1750	3.3/1.7	23	3	**10D969**
	28	7½	2¼	24½	6254	5767	5216	4558	115/230 V AC	1	½	1134	5.4/2.8	21	6	**10D970**
Without Intake Guards																
16 in	20	7½	2⅝	16⅜	2883	2650	2375	2099	115/230 V AC	1	¼	1743	2.8/1.5	19.7	3	**10D983**
	20	7	2⅝	16⅜	2926	2693	2417	2184	208-230/460 V AC	3	¼	1747	1.5-1.6/0.9	17.9	3	**10D984**
18 in	22	7	2⅛	18½	3604	3307	2989	2587	115/230 V AC	1	⅓	1706	3.3/1.7	22	3	**10D985**
	22	6½	2⅜	18½	3689	3413	3138	2799	208-230/460 V AC	3	⅓	1725	1.5-1.6/0.8	20	3	**10D986**
20 in	24	6½	2¾	20⅝	4855	4537	4198	3710	115/230 V AC	1	¾	1700	7.0/3.5	23	3	**10D987**
	24	7	2½	20⅝	4601	4283	3922	3477	208-230/460 V AC	3	¾	1753	3.2-3.3/1.6	21	3	**10D988**
24 in	28	8	2½	24½	6403	5958	5491	4791	115/230 V AC	1	½	1132	5.4/2.8	22	6	**10D989**
	28	8	3¼	24½	7654	7081	6466	5724	115/230 V AC	1	¾	1700	7.0/3.5	29	3	**10D990**
	28	8	2	24½	7102	6657	6170	5618	208-230/460 V AC	3	¾	1702	3.2-3.3/1.6	28	3	**10D991**
30 in	34	8½	2⅜	30½	9095	8353	7463	6466	115/230 V AC	1	¾	1128	7.5/3.8	27	6	**10D992**
	34	8½	2	30½	9117	8481	7675	6678	208-230/460 V AC	3	¾	1138	3.6-3.8/1.9	26	6	**10D993**
36 in	40	8	2⅝	36⅜	12,742	11,237	9435	7420	208-230/460 V AC	3	¾	1150	3.6-3.8/1.9	29	3	**10D994**

**** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.***


No. 484X53


No. 12U120

Guard- and Ring-Mount Exhaust Fans

- Mount: vertical or horizontal
- Motors: totally enclosed, 115V, 60 Hz, thermally protected
- Max. inlet/ambient temp.: 104°F

Designed for low-pressure exhausting and cooling applications. Automatic shutter is recommended for guard-mount fans; go to Grainger.com® and search for fan shutters. UL and C-UL Listed.

Blade Dia.	CFM @ 0.000" SP	CFM @ 0.125" SP	Motor RPM	Exhaust/ Supply Fan Motor HP	Operating Amps	Bearing Type	Max. Depth	Outside Dia.	Mounting Holes O.C.	No. of Blades	Item No.
Guard-Mount Fans with OSHA-Compliant Gray Polyester-Coated Guards											
7 in	288	150	1550	1/25	0.4	Ball	6"	8½"	7⅜"	5	**484X51**
10 in	615	490	1550	1/25	0.55	Ball	6"	11⅜"	8¾"	5	**484X52**
12 in	830	440	1550	1/15	0.7	Ball	6"	13⅜"	10¼"	3	**484X53**
16 in	1280	540	1550	1/20	0.85	Ball	7⅛"	17⅜"	12 29/32"	3	**1HKL5**
18 in	3896	2132	1725	¼	3.5	Ball	10 13/16"	20¾"	15 1/16"	3	**1HKL6**
20 in	3960	2360	1725	¼	3.5	Ball	11"	22½"	16¾"	3	**1HKL7**
24 in	4564	2356	1075	⅓	3.3	Ball	11"	26 ⅜"	19¾"	3	**1HKL8**
30 in	5472	3508	843	⅓	3.1	Ball	13½"	33"	18¾" x 28"	3	**45MX72**
36 in	6404	4680	836	½	5.5	Ball	13½"	38⅜"	22" x 23"	3	**45MX73**
Ring-Mount Fans with Galvanized Steel Frame*											
6"	119	—	1550	1/65	0.72	Ball	5"	7"	11⅜"	5	**12U117**
9"	305	—	1550	1/45	0.74	Ball	5"	9⅝"	11¼"	5	**12U118**
12"	665	—	1550	1/30	1.40	Ball	6½"	12 9/16"	13⅞"	5	**12U119**
12"	889	—	1550	1/20	1.50	Ball	7¾"	16¼"	14⅞"	3	**12U120**

**** OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.***


No. 10F478


No. 10E033

Exhaust Fan Venturi Frames

- Mount: vertical or horizontal

Rigid galvanized steel frames have deep venturi and 1"W flanges. Nos. 10F477 to 10F479 include a zinc-plated guard; all others have slotted motor base and mounting bolts to accept 48 or 56 frame motors.

Note: Motors and blades are sold separately. For motors, see Index under Motors, Fan; for fan blades, see Fan Blades; for intake guards, see Guards, Fan.

For Blade Dia.	Dia. Opening Required	Item No.
8 in	10½"	**10F477**
10 in	12½"	**10F478**
12 in	14½"	**10E033**
14 in	16½"	**10F479**
16 in	18½"	**10E034**
18 in	20½"	**10E035**
20 in	22½"	**10E036**
24 in	26½"	**10E037**
30 in	32½"	**10E038**
36 in	38½"	**10F480**

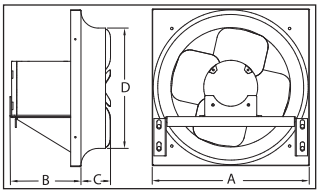
Quiet-Design Direct-Drive Venturi Exhaust Fans

- Mount: vertical or horizontal
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings
- 60 Hz
- Max. ambient temp.: 104°F
- Aluminum propellers

Galvanized frame and finish. For commercial and industrial applications. UL and C-UL Listed.

Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

For recommended accessories, go to Grainger.com®, search by Grainger Item Number and look for Optional Accessories or Related Products.



Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Fan Voltage	Phase	Exhaust/ Supply Fan Motor HP	Motor RPM	Full Load Amps	Sones @ 0.000" SP @ 5 ft.#	No. of Blades	Item No.
12"	16	7	3¾	12¼	1286	1145	962	669	115/230VAC	1	¼	1742	2.8/1.5	11.2	3	10E039
16"	20	7	3½	16⅜	2544	2226	1929	1484	115/230VAC	1	¼	1780	2.8/1.5	18.5	3	10E040
	20	7	3⅜	16⅜	2459	2226	1929	1484	208-230/460VAC	3	¼	1737	1.5-1.6/0.9	15.8	3	10E041
18"	22	7	3⅛	18½	3032	2841	2587	2332	115/230VAC	1	⅓	1657	3.3/1.7	22	4	10E042
	22	7	3⅛	18½	3072	2860	2527	2223	208-230/460VAC	3	⅓	1590	1.5-1.6/0.8	22	4	10E043
24"	28	8	6⅜	24½	5658	5236	4740	4295	115/230VAC	1	½	1105	5.4/2.8	21	3	10E046
	28	8	7⅜	24½	6208	5780	5300	4780	115/230VAC	1	¾	1150	7.5/3.8	19.0	3	10E047
	28	8	7¾	24½	6424	6042	5640	4780	208-230/460VAC	3	¾	1150	3.6-3.8/1.9	19.0	3	10E048
30"	34	8½	3	30½	9371	8671	7993	7336	208-230/460VAC	3	¾	1150	3.6-3.8/1.9	24	3	10E049

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*



No. 10E049

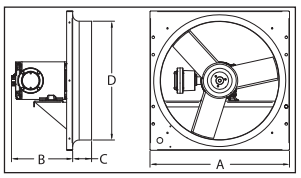
Hazardous Location Direct-Drive Exhaust Fans

- Mount: vertical or horizontal
- Motors: explosionproof, fan-cooled enclosure with Class B insulation
- Hazardous location ball bearings
- Max. ambient temp.: 104°F

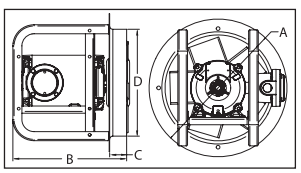
Fans ventilate spaces containing flammable or explosive vapors, gases, or dusts (per NEC 500). For use with NEC Class I, Division I, Groups C and D; NEC Class II, Division I, Groups F and G (No. 10E020 for Groups E, F, and G). Galvanized frame and finish. Spark-resistant aluminum propellers. Motorized damper and shutters are not recommended. UL and C-UL Listed.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Not for use with hazardous location exhaust applications. Review OSHA codes and UL standards. See index under Guards, Fan.

Consult local ventilation contractor or fire inspector for local code requirements. Do not use where motor or blades will accumulate paint residue. Electrically ground all components in hazardous location system.



Panel Exhaust Fan



Ring Exhaust Fan

Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Fan Voltage	Phase	Exhaust/ Supply Fan Motor HP	Full Load Amps	Sones @ 0.000" SP @ 5 ft.#	Item No.
Panel Exhaust Fans															
12"	16	9½	3	12¼	1347	1262	1142	947	604	115/208-230VAC	1	⅛	4.2/2.1 to 2.0	13.4	32ZN53
	16	9½	3	12¼	1347	1262	1142	947	604	208-230/460VAC	3	¼	1.4-1.3/.65	13.4	10D996
16"	20	9½	3¼	16½	2476	2288	2061	1769	1350	115/208-230VAC	1	¼	4.2/2.1-2.0	14.1	10D997
	20	9½	3¼	16½	2476	2288	2061	1769	1350	208-230/460VAC	3	¼	1.4-1.3/.65	14.1	10D998
18"	22	9½	3⅛	18½	3168	2912	2612	2219	1599	115/208-230VAC	1	⅓	6/3.2-3	19.1	10D999
	22	11	3⅛	18½	3168	2912	2612	2219	1599	208-230/460VAC	3	⅓	1.8-1.6/.8	19.1	10E001
20"	24	11½	3¾	20½	4557	4254	3919	3542	3101	115/208-230VAC	1	½	7.4/3.9-3.7	23	10E002
	24	11½	3¾	20½	4557	4254	3919	3542	3101	208-230/460VAC	3	½	1.8-2/1	23	10E003
24"	28	11½	3⅞	24½	5669	4946	4010	2963	1906	115/208-230VAC	1	½	7.4/3.9-3.7	26	10E004
	28	11½	3⅞	24½	6317	5851	5314	4729	4117	115/208-230VAC	1	¾	10.6/5.3	28	10E005
	28	11½	3⅞	24½	5669	4946	4010	2963	1906	208-230/460VAC	3	½	1.8-2/1	26	10E006
	28	12	3⅞	24½	6317	5851	5314	4729	4117	208-230/460VAC	3	¾	3.2-3/1.5	28	10E007
Ring Exhaust Fans with Prepunched Mounting Holes															
12"	16¼	13½	2	12½	1147	999	803	682	—	115/208-230VAC	1	⅛	4.2/2.1 to 2.0	13.6	32ZN54
	16¼	13½	2	12½	1147	999	803	682	—	208-230/460VAC	3	¼	1.4-1.3/.65	13.6	10E009
16"	20¼	13½	2	16½	2153	1943	1713	1366	1125	115/208-230VAC	1	¼	4.2/2.1-2.0	17.0	10E010
	20¼	13½	2	16½	2153	1943	1713	1366	1125	208-230/460VAC	3	¼	1.4-1.3/.65	17.0	10E011
18"	22¼	13½	2	18½	2371	2089	1756	1423	1088	115/208-230VAC	1	¼	4.2/2.1-2.0	21	10E012
	22¼	13½	2	18½	2371	2089	1756	1423	1088	208-230/460VAC	3	¼	1.4-1.3/.65	21	10E013
20"	24¼	13½	2	20½	2429	2074	1744	1341	1098	115/208-230VAC	1	¼	4.2/2.1-2.0	23	10E014
	24¼	13½	2	20½	2429	2074	1744	1341	1098	208-230/460VAC	3	¼	1.4-1.3/.65	23	10E015
24"	28¼	13½	2	24½	3837	3305	2637	1970	—	115/208-230VAC	1	⅓	6/3.2-3	30	10E016
	28¼	13½	2	24½	5669	4946	4010	2963	1906	115/208-230VAC	1	½	7.4/3.9-3.7	26	10E017
	28¼	13½	2	24½	3837	3305	2637	1970	—	208-230/460VAC	3	⅓	1.8-1.6/.8	30	10E018
	28¼	13½	2	24½	5669	4946	4010	2963	1906	208-230/460VAC	3	½	1.8-2/1	26	10E019
30"	34¼	17½	2	30½	8153	7515	6804	5957	4956	115/208-230VAC	1	¾	9.2/5-4.6	28	10E020

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m), in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

Panel Exhaust Fan



Ring Exhaust Fan

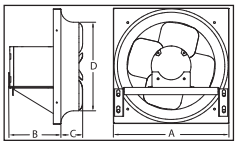


Reversible Direct-Drive Exhaust/Supply Fans

- Mount: vertical or horizontal
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings
- 1 speed, 60 Hz
- Max. inlet/ ambient temp.: 104°F
- Motor rpm: 1750, except 1140 rpm on Nos. 10E026 and 10E032

Versatile fans have reversing switch to quickly exhaust or supply air in demanding ventilating applications. Feature galvanized frame and 4-blade aluminum propellers, except 20" and 24"-dia. models have 3 blades. UL and C-UL Listed.



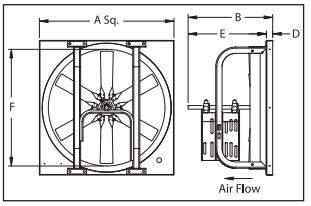


Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

Blade Dia.	Exhaust/Supply CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	115/230VAC 1-PHASE MOTOR Full-Load Amps	Item No.	208-230/460VAC 3-PHASE MOTOR Full-Load Amps	Item No.
12"	1524/1463	1353/1378	1145/1230	729/886	¼	—	—	1.5-1.6/0.9	10E027
	1526/1470	1361/1343	1178/1033	636/742	¼	2.8/1.5	10E021	—	—
16"	2027/1811	1755/1625	1370/1340	995/940	¼	2.8/1.5	10E022	—	—
	2226/1926	1993/1739	1654/1420	1181/1081	¼	—	—	1.5-1.6/0.9	10E028
	2587/2512	2438/2430	2226/2210	1781/1705	⅓	—	—	1.5-1.6/0.8	10E029
	2737/2410	2493/2268	2190/2035	1616/1560	⅓	3.3/1.7	10E023	—	—
18"	3477/2960	3223/2862	2926/2739	2650/2490	⅓	3.3/1.7	10E024	—	—
	3647/3138	3350/2989	3032/2820	2544/2578	⅓	—	—	1.5-1.6/0.8	10E030
20"	3858/3477	3484/3190	3145/2955	2677/2570	⅓	—	—	1.5-1.6/0.8	10E031
	3859/3471	3477/3180	3180/2989	2756/2671	⅓	3.3/1.7	10E025	—	—
24"	5025/4261	4473/3816	3731/3392	2540/2332	½	—	—	2.1-2.3/1.2	10E032
	5352/4516	4742/4071	3986/3604	2620/2703	½	5.4/2.8	10E026	—	—

Blade Dia.	A" (Sq.)	B"	C"	D"	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.
12"	16	7	4	12¼	3FKF4	16D556	16D550	1WBT8
16"	20	7	2¾	16⅜	3FKF5	16D558	16D552	1WBT9
16"	20	7	3	16⅜	3FKF5	16D558	16D552	1WBT9
18"	22	7	3¾	18½	3FKF6	16D559	16D553	1WBU1
20"	24	7	3⅜	20⅝	3FKF7	3FKF2	3FKF3	1WBU2
24"	28	8	3¾	24½	3FKF8	1WBV9	1WBV1	1WBU3

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m), in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*



Belt-Drive Supply Fans

- Mount: supply—vertical, exhaust—horizontal
- Regreasable pillow block ball bearings, except 60" blade dia. fans are regreasable cast pillow block; Nos. 3FKD4, 7CC26, and Nos. 7AC80 to 7AD15 have sealed pillow block
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Designed for commercial applications requiring high volumes of air at low static pressures. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motors, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. More sizes available on Grainger.com®. Fans are UL and C-UL Listed.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

Dayton

Standard-Duty— Feature 6-blade galvanized-steel propellers and rigid drive-frame rails.

Heavy-Duty—Feature 6-blade heavy-duty cast aluminum propellers and heavy-duty drive-frame channels.



Standard-Duty

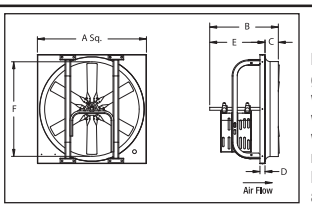
Blade Dia.	Dimensions A	B	D	E	F	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	Motorized Galvanized Wall Shutter Item No.
20"	24"	19½"	1"	18½"	20½"	3FKF7	3FKF2	3FKF3	1WBU2	3C726
30"	34"	22⅞"	1"	21⅞"	30⅜"	3FKF9	1WBW1	1WBV2	1WBU4	3C728
36"	40"	23¼"	1"	22¼"	36⅜"	3FKG1	1WBW2	1WBV3	1WBU5	3C729
48"	54"	26"	2"	23⅞"	48½"	3FKG3	1WBW4	1WBV5	1WBU7	3C731
60"	66"	35½"	2"	33½"	61"	3FKG5	1WBW6	1WBV8	1WBU9	3C733

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208-230/460, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 208-230/440V, 60 Hz Item No.	FAN WITHOUT MOTOR & DRIVE PKG.** Item No.
Standard-Duty													
20"	3581	3148	2469	1160	¼	953	16.2	0.30	7AC80	7AC82	7AC81	7AC83	3FKD4
	3904	3517	2954	2037	⅓	1039	17.2	0.40	7AC84	7AC86	7AC85	7AC87	
	4587	4277	3873	3333	½	1221	20	0.60	7AC88	7AC90	7AC89	7AC91	
30"	7096	6015	—	—	¼	621	13.2	0.30	7CC13	7CC14	7AC96	7CC15	1WDC6
	7713	6763	5160	—	⅓	675	14.6	0.39	7CC16	7CC17	7AC97	7CC18	
	8867	8036	6990	—	½	776	17.8	0.60	7CC19	7CC20	7AC98	7CC21	
	10,078	9342	8560	7424	¾	882	22	0.90	7CC22	7CC23	7AC99	7CC24	
	11,061	10,385	9736	8847	1	968	26	1.20	7CC25	7CC26	7AD00	7CC27	
36"	10,484	8176	—	—	⅓	477	12.5	0.39	7CC28	7CC29	7AD01	7CC30	1WDC7
	12,220	10,328	—	—	½	556	15.8	0.60	7CC31	7CC32	7AD02	7CC33	
	13,802	12,156	10,205	—	¾	628	18.7	0.90	7CC34	7CC35	7AD03	7CC36	
	15,253	13,798	12,111	9875	1	694	21	1.20	7CC37	7CC38	7AD04	7CC39	
	17,407	16,198	14,753	13,170	1½	792	28	1.80	7CC40	7CC41	7AD05	7CC42	
48"	17,349	13,047	—	—	½	341	13.1	0.60	7CC58	7CC59	7AD10	7CC60	1WDC9
	19,995	16,655	—	—	¾	393	16.4	0.90	7CC61	7CC62	7AD11	7CC63	
	21,827	18,907	13,506	—	1	429	19.4	1.20	7CC64	7CC65	7AD12	7CC66	
	24,981	22,460	19,129	—	1½	491	22	1.80	7CC67	7CC68	7AD13	7CC69	
	27,474	25,206	22,529	18,065	2	540	25	2.40	7CC70	7CC71	7AD14	7CC72	
	31,442	29,484	27,395	24,703	3	618	29	3.60	—	—	7AD15	7D530	
Heavy-Duty													
60"	48,356	44,215	39,274	—	5	485	35	5.75	—	—	7AC72	7AC73	3FKD6
	55,335	51,712	48,133	41,726	7½	555	45	8.63	—	—	7AC74	7AC75	
	60,918	57,628	54,364	50,737	10	611	54	11.50	—	—	7AC76	7AC77	
	69,692	66,816	63,943	61,110	15	699	74	17.25	—	—	7AC78	7AC79	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*



No. 1WDC1



Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

Standard-Duty Belt-Drive Exhaust Fans

Dayton

- Mount: exhaust—vertical, supply—horizontal
- 30" fans with drive package have sealed pillow block bearings; others have regreasable pillow block bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Designed for commercial applications requiring high volumes of air at low static pressures. Fans feature 6-blade galvanized-steel propellers, rigid drive-frame rails, and 1-pc. motor/bearing plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. More sizes available on Grainger.com®. Fans are UL and C-UL Listed.

Blade Dia.	Dimensions A"	B"	C"	D"	E"	F"	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	Wall Shutters Galvanized Item No.	Aluminum Item No.	Fiberglass Item No.
30"	34	21½	5¼	1	16¼	30⅜	3FKF9	1WBW1	1WBV2	1WBU4	1C055	3C309	5C216
36"	40	22	6	1	16	36⅜	3FKG1	1WBW2	1WBV3	1WBU5	4C521	3C310	5C217
42"	46	23½	6	2	17½	42½	3FKG2	1WBW3	1WBV4	1WBU6	1C210	3C311	5C219
48"	54	23½	7	2	16½	48½	3FKG3	1WBW4	1WBV5	1WBU7	1C211	3C312	5C220

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208-230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz Item No.	FAN WITHOUT MOTOR & DRIVE PKG.** Item No.
30"	7096	6015	—	—	¼	621	13.2	0.30	7CC85	7CC86	7AD32	7CC87	1WDC1
	7713	6763	5160	—	⅓	675	14.6	0.39	7CC88	7CC89	7AD33	7CC90	
	8867	8036	6990	—	½	776	17.8	0.60	7CC91	7CC92	7AD34	7CC93	
	10,078	9342	8560	7424	¾	882	22	0.90	7CC94	7CC95	7AD35	7CC96	
	11,061	10,385	9736	8847	1	968	26	1.20	7CC97	7CC98	7AD36	7CC99	
36"	10,484	8176	—	—	⅓	477	12.5	0.39	7CF01	7CF02	7AD37	7CF03	1WDC2
	12,220	10,328	—	—	½	556	15.8	0.60	7CF04	7CF05	7AD38	7CF06	
	13,802	12,156	10,205	—	¾	628	18.7	0.90	7CF07	7CF08	7AD39	7CF09	
	15,253	13,798	12,111	9875	1	694	21	1.20	7CF10	7CF11	7AD40	7CF12	
	17,407	16,198	14,753	13,170	1½	792	28	1.80	7CF13	7CF14	7AD41	7CF15	
42"	14,712	11,980	—	—	½	426	17.1	0.60	7CF16	7CF17	7AD42	7CF18	1WDC3
	16,646	14,327	10,507	—	¾	482	20	0.90	7CF19	7CF20	7AD43	7CF21	
	18,408	16,388	13,752	—	1	533	22	1.20	7CF22	7CF23	7AD44	7CF24	
	20,998	19,302	17,182	14,193	1½	608	26	1.80	7CF25	7CF26	7AD45	7CF27	
48"	17,349	13,047	—	—	½	341	13.1	0.60	7CF31	7CF32	7AD46	7CF33	1WDC4
	19,995	16,655	—	—	¾	393	16.4	0.90	7CF34	7CF35	7AD47	7CF36	
	21,827	18,907	13,506	—	1	429	19.4	1.20	7CF37	7CF38	7AD48	7CF39	
	24,981	22,460	19,129	—	1½	491	22	1.80	7CF40	7CF41	7AD49	7CF42	
	27,474	25,206	22,529	18,065	2	540	25	2.40	7CF43	7CF44	7AD50	7CF45	
	31,442	29,484	27,395	24,703	3	618	29	3.60	—	—	7AD51	7D529	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*

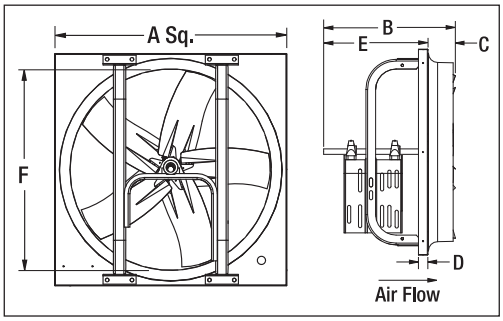
Medium-Duty Belt-Drive Exhaust Fans

Dayton

- Mount: exhaust—vertical, supply—horizontal
- Regreasable pillow block ball bearings, except 20" blade dia. fans have sealed pillow block
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance (except No. 1AHA7)

Designed for commercial and industrial applications requiring high volumes of air at low static pressures. Fans feature 5-blade reinforced galvanized-steel propellers, heavy-duty drive-frame rails, and 1-pc. motor/bearing plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. Fans with motor and drive are UL and C-UL Listed.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.





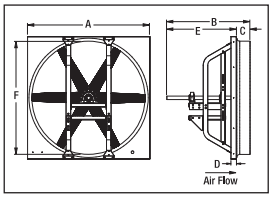
Blade Dia.	Dimensions (in.) A	B	C	D	E	F	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	CFM @ 0.000" SP††	Wall Shutters Galvanized Item No.	Aluminum Item No.	Fiberglass Item No.
20"	24	19½	3¼	1	16¼	20½	3FKF7	3FKF2	3FKF3	1WBU2	< 5700	1C745	4C559	5C214
											> 5700	—	4FZH6	—
24"	28	18	4⅜	1¼	13⅝	24⅜	3FKF8	1WBV9	1WBV1	1WBU3	< 8300	1C746	3C308	5C215
											> 8300	—	4FZH7	—
30"	34	20	5¼	1¼	14¾	30⅜	3FKF9	1WBW1	1WBV2	1WBU4	< 13,630	1C055	3C309	5C216
											> 13,630	—	4FZH8	—
36"	40	22	6	1	16	36⅜	3FKG1	1WBW2	1WBV3	1WBU5	< 18,590	4C521	3C310	5C217
											> 18,590	—	4FZH9	—
42"	46	23½	6	2	17½	42½	3FKG2	1WBW3	1WBV4	1WBU6	< 25,630	1C210	3C311	5C219
											< 30,750	—	4FZJ1	—
											> 30,750	3C730‡	—	—
48"	54	23½	7	2	16½	48½	3FKG3	1WBW4	1WBV5	1WBU7	< 32,310	1C211	3C312	5C220
											> 32,310	—	4FZJ2	—
54"	60	23	6½	2	16½	55	3FKG4	1WBW5	1WBV7	1WBU8	< 42,510	3C115	3C313	5C221
											> 42,510	3C732‡	—	5C221
60"	66	26½	7⁹⁄₁₆	2	18¹⁵⁄₁₆	61	3FKG5	1WBW6	1WBV8	1WBU9	< 50,990	3C116	3C314	5C222
											> 50,990	3C733‡	—	—

†† CFM states minimum air volume to operate shutters. ‡ Motorized damper.

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 208-220/440V Item No.	Totally Enclosed 3-Phase Motor 208-220/440V Item No.	FANS WITHOUT MOTOR & DRIVE PKG.** Item No.
20"	4404	3672	—	—	¼	861	14.3	0.30	7AD52	7AD54	7AD53	7AD55	3FKD8
	4844	4156	—	—	⅓	947	16.1	0.40	7AD56	7AD58	7AD57	7AD59	
	5550	4919	4269	—	½	1085	17.9	0.60	7AD60	7AD62	7AD61	7AD63	
	6348	5764	5325	4479	¾	1241	22	0.90	7AD64	—	7AD65	7AD66	
24"	6039	5142	—	—	⅓	643	12.7	0.38	7M7V7	7M7W2	—	7M7W9	1AHA1
	6950	6216	4806	—	½	740	14.7	0.58	7M7V8	7M7W3	—	7M7X0	
	7927	7296	6514	—	¾	844	19.8	0.86	7M7V9	7M7W4	—	7M7X1	
	8734	8173	7507	6279	1	930	27	1.15	7M7W0	7M7W5	7M7W7	7M7X2	
	10,002	9518	8984	8344	1½	1065	46	1.73	7AR52	—	7AR53	—	
30"	9829	8499	—	—	½	594	15.4	0.58	7M7X4	7M7X9	—	7M7Y7	1AHA2
	11,169	10,067	8391	—	¾	675	18.3	0.86	7M7X5	7M7Y0	—	7M7Y8	
	12,328	11,355	9977	—	1	745	21	1.15	7M7X6	7M7Y1	7M7Y4	7M7Y9	
	14,098	13,279	12,271	10,859	1½	852	26	1.73	7M7X7	7M7Y2	7M7Y5	7M7Z0	
	15,488	14,742	13,891	12,735	2	936	31	2.30	7M7X8	7M7Y3	7M7Y6	7M7Z1	
36"	12,492	10,112	—	—	½	433	13.5	0.58	7M7Z2	7M7Z7	—	7M807	1AHA3
	14,223	12,197	—	—	¾	493	15.1	0.86	7M7Z3	7M7Z8	—	7M808	
	15,636	13,847	11,288	—	1	542	17.2	1.15	7M7Z4	7M7Z9	7M803	7M809	
	17,973	16,501	14,678	11,697	1½	623	22	1.73	7M7Z5	7M800	7M804	7M810	
	19,733	18,457	16,798	14,771	2	684	26	2.30	7M7Z6	7M801	7M805	7M811	
42"	17,709	14,179	—	—	¾	380	15.5	0.86	7M813	7M817	—	7M827	1AHA4
	19,480	16,358	—	—	1	418	18.3	1.15	7M814	7M818	7M822	7M828	
	22,322	19,801	16,803	—	1½	479	23	1.73	7M815	7M819	7M823	7M829	
	24,419	22,147	19,318	14,534	2	524	26	2.30	7M816	7M820	7M824	7M830	
	28,101	26,182	23,819	21,503	3	603	31	3.45	—	7M821	7M825	7M831	
	33,227	31,632	29,866	27,693	5	713	38	5.75	—	—	7M826	7M832	
48"	22,617	18,903	—	—	1	351	15.0	1.15	7M833	7M836	7M840	7M845	1AHA5
	25,839	22,767	17,182	—	1½	401	18.6	1.73	7M834	7M837	7M841	7M846	
	28,545	25,797	21,971	—	2	443	21	2.30	7M835	7M838	7M842	7M847	
	32,605	30,246	27,492	22,873	3	506	27	3.45	—	7M839	7M843	7M848	
54"	30,129	26,014	—	—	1½	343	17.3	1.73	7M850	7M852	7M855	7M860	1AHA6
	32,589	28,800	22,253	—	2	371	19.0	2.30	7M851	7M853	7M856	7M861	
	37,683	34,407	30,466	—	3	429	25	3.45	—	7M854	7M857	7M862	
	44,535	41,763	38,990	35,068	5	507	43	5.75	—	—	7M858	7M863	
60"	38,697	30,835	—	—	2	290	19.7	2.30	7M865	7M866	7M868	7M873	1AHA7
	44,302	37,736	—	—	3	332	24	3.45	—	7M867	7M869	7M874	
	52,442	47,037	40,624	—	5	393	30	5.75	—	—	7M870	7M875	
	60,048	55,356	50,229	43,743	7½	450	51	8.63	—	—	7M871	7M876	
	66,186	61,929	57,516	52,318	10	496	70	11.50	—	—	7M872	7M877	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*





Heavy-Duty Belt-Drive Exhaust Fans

- Mount: exhaust—vertical, supply—horizontal
- Regreasable, cast pillow block ball bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance (except No. 1AHB5)

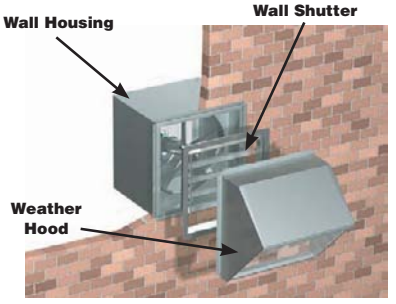
Designed for commercial and industrial applications requiring high volumes of air at low to medium static pressures. Fans feature 6-blade heavy-duty cast-aluminum propellers, heavy-duty drive-frame channels, bearing plate, and motor plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. Fan is UL and C-UL Listed.

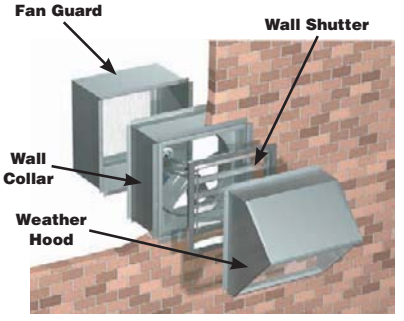
Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

Blade Dia.	Dimensions (in.) A	B	C	D	E	F	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.
24"	28	18	4⅜	1¼	13⅝	24⅜	3FKF8	1WBV9	1WBV1	1WBU3
30"	34	20	5¼	1¼	14¾	30⅜	3FKF9	1WBW1	1WBV2	1WBU4
36"	40	22	6	1	16	36⅜	3FKG1	1WBW2	1WBV3	1WBU5
42"	46	26⅜	6	2	20⅜	42½	3FKG2	1WBW3	1WBV4	1WBU6
48"	54	28	7	2	21	48½	3FKG3	1WBW4	1WBV6	1WBU7
54"	60	33½	6½	2	27	55	3FKG4	1WBW5	1WBV7	1WBU8
60"	66	34	7⁹⁄₁₆	2	26⁷⁄₁₆	61	3FKG5	1WBW6	1WBV8	1WBU9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 208-230/460V Item No.	Totally Enclosed 3-Phase Motor 208-230/460V Item No.	FAN WITHOUT MOTOR & DRIVE PKG.** Item No.
24 in	5608	4889	3679	—	—	—	—	⅓	814	14.2	0.38	7AR54	7AR55	—	7AR56	1AHA8
	6469	5867	4987	3648	1158	—	—	½	939	17.7	0.58	7M878	7M882	—	7M888	
	7357	6847	6194	5282	2339	1469	—	¾	1068	21	0.86	7M879	7M883	—	7M889	
	8115	7669	7127	6375	5503	2475	1686	1	1178	24	1.15	7M880	7M884	7M886	7M890	
30 in	9474	7888	—	—	—	—	—	½	687	16.3	0.58	7AR57	7AR58	—	7AR59	1AHA9
	10,798	9474	7730	—	—	—	—	¾	783	19.7	0.86	7M892	7M896	—	7M8A5	
	11,901	10,739	9276	—	—	—	—	1	863	23	1.15	7M893	7M897	7M8A1	7M8A6	
	13,639	12,646	11,452	10,112	—	—	—	1½	989	27	1.73	7M894	7M898	7M8A2	7M8A7	
	14,990	14,090	13,072	11,885	10,489	—	—	2	1087	31	2.30	7M895	7M899	7M8A3	7M8A8	
36 in	14,345	11,967	—	—	—	—	—	¾	620	20	0.86	7AR60	7AR61	—	7AR62	1AHB1
	15,803	13,762	—	—	—	—	—	1	683	23	1.15	7M8B0	7M8B3	7M8B7	7M8C2	
	18,117	16,453	14,122	—	—	—	—	1½	783	28	1.73	7M8B1	7M8B4	7M8B8	7M8C3	
	19,922	18,434	16,458	13,986	—	—	—	2	861	31	2.30	7M8B2	7M8B5	7M8B9	7M8C4	
	22,791	21,529	19,987	18,080	—	—	—	3	985	38	3.45	—	7M8B6	7M8C0	7M8C5	
	26,979	25,947	24,763	23,368	21,737	20,121	—	5	1166	50	5.75	—	—	7M8C1	7M8C6	
42 in	18,024	14,838	—	—	—	—	—	1	528	17.8	1.15	7AR63	7AR64	7AR65	7AR66	1AHB2
	20,652	17,843	—	—	—	—	—	1½	605	21	1.73	7M8C7	7M8C9	7M8D2	7M8D7	
	22,735	20,142	17,272	—	—	—	—	2	666	24	2.30	7M8C8	7M8D0	7M8D3	7M8D8	
	26,012	23,867	21,621	18,395	—	—	—	3	762	31	3.45	—	7M8D1	7M8D4	7M8D9	
	30,825	29,065	27,028	25,215	22,372	—	—	5	903	41	5.75	—	—	7M8D5	7M8E0	
48 in	26,377	21,773	—	—	—	—	—	1½	524	24	1.73	7AR67	7AR68	7AR69	7AR70	1AHB3
	28,995	24,803	—	—	—	—	—	2	576	27	2.30	7M8E2	7M8E3	7M8E5	7M8F0	
	33,223	29,689	25,707	—	—	—	—	3	660	32	3.45	—	7M8E4	7M8E6	7M8F1	
	39,364	36,499	33,176	29,728	—	—	—	5	782	40	5.75	—	—	7M8E7	7M8F2	
	45,053	42,635	39,778	36,972	33,755	—	—	7½	895	49	8.63	—	—	7M8E8	7M8F3	
54 in	29,332	25,255	—	—	—	—	—	2	419	22	2.3	7AR71	7AR72	7AR73	7AR74	1AHB4
	33,602	30,247	25,975	—	—	—	—	3	480	27	3.45	7M8F5	7M8F6	—	7M8G1	
	39,833	37,674	33,796	30,011	—	—	—	5	569	37	5.75	—	—	7M8F7	7M8G2	
	45,573	43,687	40,399	37,596	33,972	—	—	7½	651	48	8.63	—	—	7M8F8	7M8G3	
	50,124	48,408	45,926	42,953	40,218	36,437	—	10	716	59	11.50	—	—	7M8F9	7M8G4	
60 in	40,778	35,888	26,441	—	—	—	—	3	409	27	3.45	7AR75	7AR76	7AR77	7AR78	1AHB5
	48,356	44,215	39,274	—	—	—	—	5	485	35	5.75	—	—	7M8G6	7M8H1	
	55,335	51,712	48,133	41,726	—	—	—	7½	555	45	8.63	—	—	7M8G7	7M8H2	
	60,918	57,628	54,364	50,737	43,055	—	—	10	611	54	11.50	—	—	7M8G8	7M8H3	
	69,692	66,816	63,943	61,110	57,579	50,855	44,128	15	699	74	17.25	—	—	7M8G9	7M8H4	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*





Exhaust and Supply Fan Accessories

Galvanized steel accessories are for use with Dayton® belt- and direct-drive exhaust and supply propeller fans. Shipped unassembled; assembly hardware included.

Note: For wall shutters, see page 2936.

Wall Housings—OSHA-compliant screen completely protects motor drive side of fan.

Weather Hoods—Each includes bird screen.

Wall Collars—Internal flange for mounting shutters; external flange provides flashing for wall opening.

Fan Guards—OSHA-compliant screen completely encloses motor drive side of fan.

Note: OSHA-compliant guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See index under Guards, Fan.

For Fan Dia. (in.)	W (in.) (sq.)	D (in.)	Gauge	Item No.
Wall Housings				
8	12⅛	21	18	16D560
10	14⅛	21	18	16D561
12	16⅛	23	18	3FKF4
14	18⅛	21	18	16D562
16	20⅛	27	18	3FKF5
18	22⅛	28	18	3FKF6
20	24⅛	32	18	3FKF7
24	28⅛	37	18	3FKF8
30	34⅛	38	18	3FKF9
36	40⅛	39	18	3FKG1
42	46⅛	44	18	3FKG2
48	54¼	44	16	3FKG3
54	60¼	52	16	3FKG4
60	66¼	54	16	3FKG5
Weather Hoods				
8	12⅛	11⅛	20	16D554
10	14⅛	12½	20	16D555
12	16⅛	14¼	20	16D556
14	18⅛	15½	20	16D557
16	20⅛	17	20	16D558
18	22⅛	18¼	20	16D559
20	24⅛	18⅝	18	3FKF2
24	28⅛	21	18	1WBV9
30	34⅛	25	18	1WBW1
36	40⅛	29	18	1WBW2
42	46⅛	33	18	1WBW3
48	54¼	38	18	1WBW4
54	60¼	44½	18	1WBW5
60	66¼	48⅜	18	1WBW6

For Fan Dia. (in.)	W (in.) (sq.)	D (in.)	Gauge	Item No.
Standard Wall Collars				
8	12⅛	10½	20	16D548
10	14⅛	11½	20	16D549
12	16⅛	12	20	16D550
14	18⅛	12½	20	16D551
16	20⅛	12½	20	16D552
18	22⅛	12½	20	16D553
20	24⅛	17½	18	3FKF3
24	28⅛	18½	18	1WBV1
30	34⅛	19½	18	1WBV2
36	40⅛	21½	18	1WBV3
42	46⅛	21½	18	1WBV4
48	54¼	23½	18	1WBV5 *
Heavy Duty Wall Collars				
48	54¼	23½	16	1WBV6 *
54	60¼	23½	16	1WBV7
60	66¼	23½	16	1WBV8
Fan Guards				
8	12⅛	8¾	20	16D545
10	14⅛	8½	20	16D546
12	16⅛	14	20	1WBT8
14	18⅛	8½	20	16D547
16	20⅛	14	20	1WBT9
18	22⅛	14	20	1WBU1
20	24⅛	14	20	1WBU2
24	28⅛	21	18	1WBU3
30	34⅛	21	18	1WBU4
36	40⅛	27	18	1WBU5
42	46⅛	30	18	1WBU6
48	54¼	32	18	1WBU7
54	60¼	34	16	1WBU8
60	66¼	37	16	1WBU9

** Fits only Shutter Nos. 53DR15 and 53DR19.*

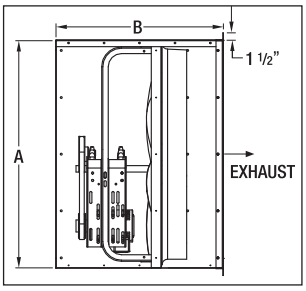
Belt-Drive Wall-Mount Cabinet Exhaust and Supply Fans

- Fully assembled fan packages for through-the-wall installation
- Motors: open dripproof
- Regreasable cast pillow block ball bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Belt-drive fans are designed for commercial/industrial applications that require delivery of high volumes of air at low static pressures. Air handling-quality bearings meet a minimum of L10-100,000 hours. Features include galvanized steel fan panel, fabricated steel propeller, and bolted cabinets. Exhaust damper blade is top-pivoting gravity return; supply damper blade is bottom-pivoting spring return. Wall-mounting angles included. UL and C-UL Listed.



No. 1AHB6



Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	Fan Voltage	Phase	Full Load Amps	Exhaust/ Supply Fan Motor HP	Max. BHP†	Fan RPM	Sones @ 0.125" SP @ 5 ft.#	A	B	Item No.
Exhaust Fans													
24 in	5,056 cfm	4,097 cfm	3,100 cfm	115/208-230V AC	1	8.0/4.0-4.0	½ hp	0.58 hp	765	12.9	28 ¼ in	34 ⅛ in	**1AHB6**
	5,796 cfm	4,950 cfm	4,165 cfm	208-230/460V AC	3	2.8-2.7/1.4	¾ hp	0.86 hp	877	16.0	28 ¼ in	34 ⅛ in	**1AHB7**
30 in	8,542 cfm	7,110 cfm	5,297 cfm	115/208-230V AC	1	11.0/5.5-5.4	¾ hp	0.87 hp	651	16.2	34 ¼ in	34 ⅛ in	**1AHB8**
	9,408 cfm	8,131 cfm	6,633 cfm	208-230/460V AC	3	3.5-3.6/1.8	1 hp	1.18 hp	717	18.9	34 ¼ in	34 ⅛ in	**1AHB9**
36 in	12,365 cfm	10,512 cfm	7,712 cfm	115/208-230V AC	1	13.0/7.0-7.0	1 hp	1.16 hp	534	16.3	40 ¼ in	34 ⅝ in	**1AHD1**
	14,148 cfm	12,611 cfm	10,527 cfm	208-230/460V AC	3	4.6-4.2/2.1	1 ½ hp	1.73 hp	611	21	40 ¼ in	34 ⅝ in	**1AHD2**
42 in	14,346 cfm	12,157 cfm	7,848 cfm	115/208-230V AC	1	13.0/7.0-7.0	1 hp	1.15 hp	422	17.5	46 ¼ in	34 ⅝ in	**1AHD3**
	16,386 cfm	14,520 cfm	11,551 cfm	208-230/460V AC	3	4.6-4.2/2.1	1 ½ hp	1.73 hp	482	21	46 ¼ in	34 ⅝ in	**1AHD4**
	20,669 cfm	19,312 cfm	17,640 cfm	208-230/460V AC	3	15.4-14.2/7.1	3 hp	3.45 hp	608	24	46 ¼ in	34 ⅝ in	**6LFC2**
	24,477 cfm	23,361 cfm	22,019 cfm	208-230/460V AC	3	13.6-12.8/6.4	5 hp	5.75 hp	720	62	46 ¼ in	34 ⅝ in	**6LFC3**
48 in	18,435 cfm	13,085 cfm	8,238 cfm	115/208-230V AC	1	13.0/7.0-7.0	1 hp	1.15 hp	354	14.8	54 ¼ in	36 ⅝ in	**1AHD5**
	23,174 cfm	19,870 cfm	15,154 cfm	208-230/460V AC	3	6.0-5.6/2.9	2 hp	2.31 hp	445	20	54 ¼ in	36 ⅝ in	**1AHD6**
	26,611 cfm	23,913 cfm	19,100 cfm	208-230/460V AC	3	15.4-14.2/7.1	3 hp	3.45 hp	511	38	54 ¼ in	36 ⅝ in	**6LFC4**
	31,506 cfm	29,520 cfm	26,636 cfm	208-230/460V AC	3	13.6-12.8/6.4	5 hp	5.75 hp	605	53	54 ¼ in	36 ⅝ in	**6LFC5**
54 in	35,881 cfm	34,002 cfm	31,574 cfm	208-230/460V AC	3	13.6-12.8/6.4	5 hp	5.53 hp	518	41	60 ¼ in	39 ⅝ in	**1AHD7**
Supply Fans													
24 in	4,988 cfm	4,206 cfm	3,321 cfm	115/208-230V AC	1	8.0/4.0-4.0	½ hp	0.58 hp	778	13.6	28 ¼ in	34 ⅛ in	**1AJA7**
30 in	9,403 cfm	8,310 cfm	6,536 cfm	115/208-230V AC	1	13.0/7.0-7.0	1 hp	1.15 hp	720	19.3	34 ¼ in	34 ⅛ in	**1AJA8**
36 in	13,913 cfm	12,435 cfm	10,110 cfm	208-230/460V AC	3	4.6-4.2/2.1	1 ½ hp	1.73 hp	619	21	40 ¼ in	34 ⅝ in	**1AJA9**
48 in	23,177 cfm	19,858 cfm	15,591 cfm	208-230/460V AC	3	6.0-5.6/2.9	2 hp	2.31 hp	440	19.9	54 ¼ in	36 ⅝ in	**1AJB1**
54 in	36,830 cfm	34,067 cfm	31,251 cfm	208-230/460V AC	3	13.6/12.8-6.4	5 hp	5.65 hp	520	42	60 ¼ in	39 ⅝ in	**1RBD8**

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of bird screen and damper in the air stream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

Reversible Belt-Drive Exhaust/Supply Fans

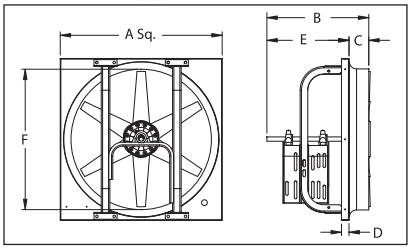
- Mount: vertical
- Regreasable cast pillow block bearings
- Max. inlet/ambient temp.: 104°F
- Variable-pitch, adjustable motor pulley optimizes fan performance

Designed for commercial and industrial applications requiring both supply and exhaust air. Fans feature 6-blade cast-aluminum propellers and rigid drive-frame rails. Motor, sheaves, bushings, belts, and reversing switch are packed separately when complete fan with drive package is ordered. Air handling-quality bearings meet a min, of L10-100,000 hr.

Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.



No. 4YGA3

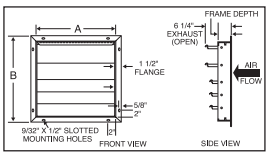


Blade Dia.	Dimensions A" (Sq.)	B"	C"	D"	E"	F"	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Fan Guard Item No.	Wall Collar Item No.	Motorized Galvanized Item No.
30"	34	21½	5¼	1	16¼	30⅜	3FKF9	1WBW1	1WBU4	1WBV2	3C728
36"	40	22	6	1	16	36⅜	3FKG1	1WBW2	1WBU5	1WBV3	3C729
48"	54	23½	7	2	16½	48½	3FKG3	1WBW4	1WBU7	1WBV5	3C731

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Max. BHP†	Fan RPM	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof Capacitor Motor 115/230V, 60 Hz Item No.	Totally Enclosed Capacitor Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208/440V, 60Hz Item No.	Totally Enclosed 3-Phase Motor 208-230/440V, 60Hz Item No.	FAN WITHOUT MOTOR & DRIVE PKG** Item No.
30"	7780	5978	—	—	⅓	0.38	714	**7AP95**	**7AP96**	**7AP97**	**7AP98**	**4YGA3**
	8989	7614	—	—	½	0.58	825	**7AP99**	**7AR00**	**7AR01**	**7AR02**	
	10,221	9081	7219	—	¾	0.86	938	**7AR03**	**7AR04**	**7AR05**	**7AR06**	
	11,245	10,228	8817	—	1	1.15	1032	**7AR07**	**7AR08**	**7AR09**	**7AR10**	
	12,901	12,043	10,999	9470	1½	1.73	1184	**7AR11**	**7AR12**	**7AR13**	**7AR14**	
	14,165	13,400	12,516	11,379	2	2.3	1300	**7AR15**	—	**7AR16**	**7AR17**	
36"	11,037	8967	—	—	½	0.57	659	**7CK38**	**7CK39**	**7AR19**	**7CK40**	**1WDN2**
	12,645	10,874	—	—	¾	0.85	755	**7CK41**	**7CK42**	**7AR20**	**7CK43**	
	13,901	12,316	10,429	—	1	1.13	830	**7CK44**	**7CK45**	**7AR21**	**7CK46**	
	15,927	14,602	13,074	10,104	1½	1.79	951	**7CK47**	**7CK48**	**7AR22**	**7CK49**	
	17,519	16,359	14,955	13,436	2	2.26	1046	**7CK50**	**7CK51**	**7AR23**	**7CK52**	
	20,131	19,149	17,957	16,757	3	3.45	1202	**7AR24**	**7AR25**	**7AR26**	**7AR27**	
	23,782	22,951	22,043	20,995	5	5.75	1420	—	—	**7AR28**	**7AR29**	
48"	19,105	13,420	—	—	¾	0.86	539	**7AR30**	**7AR31**	**7AR32**	**7AR33**	**4YGA4**
	20,913	16,100	—	—	1	1.15	590	**7AR34**	**7AR35**	**7AR36**	**7AR37**	
	23,678	19,795	13,596	—	1½	1.73	668	**7AR38**	**7AR39**	**7AR40**	**7AR41**	
	26,301	22,968	17,867	—	2	2.3	742	**7AR42**	**7AR43**	**7AR44**	**7AR45**	
	30,022	27,229	23,404	18,372	3	3.45	847	**7AR46**	**7AR47**	**7AR48**	**7AR49**	
	35,694	33,508	30,682	27,130	5	5.75	1007	—	—	**7AR50**	**7AR51**	

** Performance is for exhaust fan installation type A: free inlet, free outlet. Supply fan performance is approx. 20% less for each horsepower (HP). † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field. Values are for installation type A: free inlet sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Single- and Double-Panel Exhaust Shutters



- Exhaust only
- Mount: vertical
- Max. velocity: 2500 fpm
- 1½" flange

Efficient shutters for direct- or belt-driven exhaust fans are designed to prevent air backflow when the fan is off. Counterbalanced louvers with felted edges (except fiberglass models) open easily and seal quietly. Units with 54" and 60" galvanized and aluminum shutters have 4 additional tie rods on the discharge side for smooth, quiet operation.

G-90 Galvanized Steel Frame—For general purpose applications. 26-ga. mill-finish aluminum louvers with galvanized steel reinforcement strip. Stainless steel rivets. Frame depth: 2½" for 10" to 24" models, 3" for models 30" and up.

Extruded Aluminum Frame—For areas where corrosion may be a problem. Aluminum louvers have white enamel finish, galvanized steel reinforcement strip, and stainless steel rivets.

Fiberglass Frame—For use in areas where corrosion is a known problem, such as chemical plants and poultry/swine confinement operations. Heavy-duty fiberglass frame with stainless steel pins and bearings at pivot points. 3"-deep frame and 14-ga. tie rod, except 10" and 12" models have 16-ga. tie rod. Optional Shutter Motors Nos. 45C683, 45C664, and 45C665 can be used without additional motor setup; sold separately on this page.

Front-Flange, Extruded Aluminum Frame—For cabinet fans and flush-mount wall exhaust applications. Frame has G-90 galvanized steel tie rods and stainless steel rivets and pivot pins. Mill-finish aluminum louvers with galvanized steel reinforcement strip open easily and minimize load on the fan.

Stainless Steel Frame—For applications that require extreme corrosion resistance. Frame, louvers, tie rods, and all fasteners are stainless steel. Frame depth: 2". Shutter motors not available.

Optional Shutter Motors For Single-Panel Shutters—For exhaust installations on single-panel shutters only; vertical mount only. 6¾"H x 4"W x 4¾"D (installed depth from frame back). Actuator includes end switch. 100-240V, 2.0/1.3A, 50/60 Hz.

Optional Shutter Motors For Double-Panel Shutters—For exhaust installations on double-panel shutters only; vertical mount only. Dimensions include installed depth from frame back:

No. 24N065: 6½"H x 4"W x 6¼"D. 100-240V, 2.0/1.3A, 50/60 Hz. Actuator includes end switch.

No. 4C885: 9¾"H x 5⅞"W x 7¼"D. 100-240V, 0.25/0.20A, 60 Hz. Includes 6" leads with junction box.

Optional Pull Chain Kits—Adapt single- or double-panel exhaust shutters for manual operation. Each includes zinc-plated S-hooks, return springs, and 4-ft. pull chain.



No. 1C742



No. 3HHN6



No. 2FTW1

Fits Fan Dia.	Shutter Opening Required, A	Shutter Overall Size, B	Shutter Free Area	G-90 GALVANIZED STEEL FRAME AND TIE RODS Item No.	EXTRUDED ALUMINUM FRAME AND G-90 GALVANIZED TIE RODS Item No.	FIBERGLASS FRAME AND STAINLESS STEEL TIE RODS Item No.	FRONT FLANGE, EXTRUDED ALUMINUM FRAME AND G-90 GALVANIZED TIE RODS Item No.	STAINLESS STEEL FRAME AND TIE RODS Item No.
Gravity Operated, Single Panel								
10"	10½" x 10½"	13" x 13"	0.645 sq. ft.	2C526	4C555	5C210	3HHN4	4FZJ3
12"	12½" x 12½"	15" x 15"	0.786 sq. ft.	1C742	4C556	5C211	3HHN5	4FZJ4
	14½" x 14½"	17" x 17"	0.927 sq. ft.	53DR10	53DR12	—	53DR16	—
16"	16½" x 16½"	19" x 19"	1.436 sq. ft.	1C743	4C557	5C212	3HHN6	4FZJ5
18"	18½" x 18½"	21" x 21"	2.043 sq. ft.	1C744	4C558	5C213	3HHN7	4FZJ6
20"	20½" x 20½"	23" x 23"	2.281 sq. ft.	1C745	4C559	5C214	3HHN8	4FZJ7
	22½" x 22½"	25" x 25"	2.519 sq. ft.	53DR11	53DR13	—	53DR17	—
24"	24½" x 24½"	27" x 27"	3.320 sq. ft.	1C746	3C308	5C215	2FTW6	—
30"	30½" x 30½"	33" x 33"	5.452 sq. ft.	1C055	3C309	5C216	2FTX1	—
36"	36½" x 36½"	39" x 39"	7.436 sq. ft.	4C521	3C310	5C217	2FTW7	—
	39½" x 39½"	42" x 42"	8.995 sq. ft.	—	53DR14	—	53DR18	—
Gravity Operated, Double Panel								
24"	24½" x 24½"	27" x 27"	3.320 sq. ft.	—	—	—	—	4FZJ8
30"	30½" x 30½"	33" x 33"	5.452 sq. ft.	—	—	—	—	4FZJ9
36"	36½" x 36½"	39" x 39"	7.071 sq. ft.	1C209	4C835	5C218	3HHN9	—
	36½" x 36½"	39" x 39"	7.436 sq. ft.	—	—	—	—	4FZK1
42"	42½" x 42½"	45" x 45"	10.253 sq. ft.	1C210	3C311	5C219	2FTW1	—
48"	48½" x 48½"	51" x 51"	12.924 sq. ft.	1C211	3C312	5C220	2FTX3	—
	51½" x 51½"	54" x 54"	14.841 sq. ft.	—	53DR15	—	53DR19	—
54"	54½" x 54½"	57" x 57"	17.007 sq. ft.	3C115	3C313	5C221	3HHP1	—
60"	60½" x 60½"	63" x 63"	20.399 sq. ft.	3C116	3C314	5C222	3HHP2	—
Accessories								
Optional Shutter Motor For Use with Single-Panel Wall Shutters (Except Fiberglass)								24N064
Optional Shutter Counterclockwise Rotation Motor For Use with Double-Panel Wall Shutters (Except Fiberglass)								24N065
Optional Shutter Motor For Use with Dayton® Double-Panel Exhaust Shutters 54" to 60" (Except Fiberglass)								4C885
Optional Pull Chain Kit For Use with Dayton® Single-Panel Exhaust Shutters								2FTW3
Optional Pull Chain Kit For Use with Dayton® Double-Panel Exhaust Shutters								2FTY2

High Velocity Single- and Double-Panel Exhaust Shutters



No. 4FZH4

- Exhaust only
- Mount: vertical
- Max. velocity: 3000 fpm
- 1½" flange

Designed to prevent air backflow in high-velocity applications when the fan is off. Mill-finish extruded aluminum frame and louvers with stainless steel tie rods and fasteners provide strength, durability, and long-lasting corrosion resistance. Prepunched mounting holes; installation hardware not included.

Optional Pull Chain Kits—Adapt single- or double-panel exhaust shutters for manual operation. Each includes zinc-plated S-hooks, return springs, and 4-ft. pull chain.

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Shutter Free Area	Frame Depth	Open Depth	EXTRUDED ALUMINUM FRAME & STAINLESS STEEL TIE RODS Item No.
Gravity Operated, Single Panel						
12"	12½" x 12½"	15" x 15"	0.786 sq. ft.	3"	6¼"	4FZH3
16"	16½" x 16½"	19" x 19"	1.436 sq. ft.	3"	6¼"	4FZH4
18"	18½" x 18½"	21" x 21"	2.043 sq. ft.	3"	6¼"	4FZH5
20"	20½" x 20½"	23" x 23"	2.281 sq. ft.	3"	6¼"	4FZH6
24"	24½" x 24½"	27" x 27"	3.320 sq. ft.	3"	6¼"	4FZH7
30"	30½" x 30½"	33" x 33"	5.452 sq. ft.	3"	6¼"	4FZH8
36"	36½" x 36½"	39" x 39"	7.436 sq. ft.	3"	6¼"	4FZH9
Gravity Operated, Double Panel						
42"	42½" x 42½"	45" x 45"	10.253 sq. ft.	3"	6¼"	4FZJ1
48"	48½" x 48½"	51" x 51"	12.924 sq. ft.	3"	6¼"	4FZJ2
54"	54½" x 54½"	57" x 57"	17.007 sq. ft.	3"	6¼"	45C662
60"	60½" x 60½"	63" x 63"	20.399 sq. ft.	3"	6¼"	45C663
Accessories						
Optional Shutter Motor For Use with High-Velocity and Fiberglass Single-Panel Exhaust Shutters 10" to 36"						45C683
Optional Shutter Motor For Use with High-Velocity and Fiberglass Double-Panel Exhaust Shutters 36" to 48"						45C664
Optional Shutter Motor For Use with High-Velocity and Fiberglass Double-Panel Exhaust Shutters 49" to 60"						45C665
Optional Pull Chain Kit For Use with Dayton® Single-Panel Exhaust Shutters						2FTW3
Optional Pull Chain Kit For Use with Dayton® Double-Panel Exhaust Shutters						2FTY2

Dayton

Agricultural Wall Exhaust Shutters

For direct- or belt-drive exhaust fans. Excellent for poultry and swine confinement operations and anywhere corrosion is a problem.

G-90 Galvanized Frame with Aluminum Louvers—Designed as replacement shutters for cone and slant-wall fans. Felted louvers with galvanized steel reinforcement strip open easily and seal quietly. G-90 galvanized tie rods and stainless steel hardware. Max. velocity: 2500 fpm. 9/32" x 1/2" mounting holes.

Extruded Aluminum Frame with PVC Louvers—Frame matches louver color. Yellow zinc dichromate rods running through the louvers provide long-lasting stability. Max. velocity: 1500 fpm.

Extruded Aluminum Frame with Aluminum Louvers—Constructed of extruded aluminum frames with roll-formed louvers and counterbalancing strips. Stainless steel fasteners provide excellent corrosion resistance in agricultural applications. Prepunched mounting holes. Max. velocity: 2500 fpm.





No. 4GY96

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Shutter Free Area	Flange Width	Frame Depth	Blade Material	No. of Panels	Item No.
G-90 Galvanized Steel Frame and Tie Rods								
36"	39½" x 39½"	42" x 42"	8.995 sq. ft.	1½"	3"	Mill Finish Aluminum	1	2FTX7
48"	51½" x 51½"	54" x 54"	14.841 sq. ft.	1½"	3"	Mill Finish Aluminum	2	2FTX8
	54" x 54½"	57¼" x 57¼"	16.683 sq. ft.	1½"	3"	Mill Finish Aluminum	2	4GY95
Extruded Aluminum Frame and Zinc Dichromate Tie Rods								
16"	16¾" x 16¾"	19" x 19"	1.406 sq. ft.	1½"	1½"	Black PVC	1	3HHP6
	16¾" x 16¾"	19" x 19"	1.406 sq. ft.	1½"	1½"	White PVC	1	3HHP8
24"	24¾" x 24¾"	27" x 27"	3.417 sq. ft.	1½"	1½"	Black PVC	1	3HHP7
	24¾" x 24¾"	27" x 27"	3.417 sq. ft.	1½"	1½"	White PVC	1	3HHP9
36"	36¾" x 36¾"	39" x 39"	7.100 sq. ft.	1½"	1½"	Black PVC	2	4GY96
	36¾" x 36¾"	39" x 39"	7.100 sq. ft.	1½"	1½"	White PVC	2	4GY98
	39¾" x 39¾"	42" x 42"	9.885 sq. ft.	1½"	1½"	Black PVC	2	2FTW5
	39¾" x 39¾"	42" x 42"	9.885 sq. ft.	1½"	1½"	White PVC	2	2FTV6
48"	51¾" x 51¾"	54" x 54"	16.734 sq. ft.	1½"	1½"	Black PVC	3	2FTX9
	51¾" x 51¾"	54" x 54"	16.734 sq. ft.	1½"	1½"	White PVC	3	2FTW2
	54¾" x 54¾"	57" x 57"	18.884 sq. ft.	1½"	1½"	Black PVC	3	4GY97
	54¾" x 54¾"	57" x 57"	18.884 sq. ft.	1½"	1½"	White PVC	3	4GY99
Extruded Aluminum Frame and Tie Rods								
36"	39½" x 39½"	42" x 42"	10.253 sq. ft.	1½"	2¼"	Mill Finish Aluminum	2	45C666
48"	51½" x 51½"	54" x 54"	14.841 sq. ft.	1½"	2¼"	Mill Finish Aluminum	2	45C667
54"	54½" x 54½"	57" x 57"	16.683 sq. ft.	1½"	2¼"	Mill Finish Aluminum	2	45C668

Dayton

Supply Fan Wall Shutters

26-ga. aluminum louvers have G-90 galvanized reinforcement strip and felted edges to open easily and seal quietly. Frame is 0.062 mill-finish extruded aluminum. Stainless steel hardware with spring-assist closure. Max. velocity: 2250 fpm. See page 2932 for wall-mount supply fans.

WARNING: Do not use with vaneaxial or tubeaxial fans.



No. 4YN17

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Flange Width	Frame Depth	Open Depth	Shutter Free Area	Item No.
24"	25" x 25"	26¾" x 26¾"	1½"	1 19/32"	6"	3.221 sq. ft.	4YN17
30"	31" x 31"	32¾" x 32¾"	1½"	1 19/32"	6"	4.779 sq. ft.	3HHT1
36"	37" x 37"	38¾" x 38¾"	1½"	1 19/32"	6"	6.629 sq. ft.	4YN18
42"	43" x 43"	44¾" x 44¾"	1½"	1 19/32"	6"	9.744 sq. ft.	3HHT2
48"	49" x 49"	50¾" x 50¾"	1½"	1 19/32"	6"	12.323 sq. ft.	4YN19

Dayton

Economy Wall Exhaust Shutters

Shutters open automatically when fan is activated. Frame is G-90 galvanized steel. 26-ga. mill-finish aluminum louvers are felted on leading edge for quiet operation. Nylon bushings and stainless steel pivot pins. Max. velocity: 2000 fpm. 9/32" x 1/2" mounting holes.

WARNING: Do not use with vaneaxial or tubeaxial fans.



No. 2C518

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Flange Width	Frame Depth	Shutter Free Area	Item No.
10"	10½" x 10½"	13" x 13"	1½"	2¼"	0.650 sq. ft.	2C517
12"	12½" x 12½"	15" x 15"	1½"	2¼"	0.791 sq. ft.	2C518
14"	14½" x 14½"	17" x 17"	1½"	2¼"	1.254 sq. ft.	3HHP5
16"	16½" x 16½"	19" x 19"	1½"	2¼"	1.443 sq. ft.	2C520
18"	18½" x 18½"	21" x 21"	1½"	2¼"	2.051 sq. ft.	2C521
20"	20½" x 20½"	23" x 23"	1½"	2¼"	2.289 sq. ft.	2C522
20"	22½" x 22½"	25" x 25"	1½"	2¼"	2.527 sq. ft.	53DR20
24"	24½" x 24½"	27" x 27"	1½"	2¼"	3.330 sq. ft.	2C523

Dayton

Door Louvers

Rugged metal construction is designed to allow air movement through doors while maintaining privacy and security. Retrofit or use as original equipment in 1⅜"- to 2¼"-thick wood or metal doors. Blades are inverted V-style, 45° angle. Clear-finish aluminum or gray-painted steel. Each includes installation screws.

Louver Overall Width	Louver Overall Height	Louver Cutout Width	Louver Cutout Height	Flange Width (in.)	Louver Free Area	EXTRUDED ALUMINUM Item No.	STEEL Item No.
10¼"	10⅛"	8½"	8½"	1 3/16	0.280 sq. ft.	6WRK4	6WRH6
12¼"	6⅛"	10½"	4½"	1 3/16	0.171 sq. ft.	6WRK5	6WRH7
14¼"	10⅛"	12½"	8½"	1 3/16	0.361 sq. ft.	6WRK6	6WRH8
	14⅛"	12½"	12½"	1 3/16	0.546 sq. ft.	5NKK9	6WRH9
16¼"	10⅛"	14½"	8½"	1 3/16	0.422 sq. ft.	5NKL0	6WRJ0
	14⅛"	14½"	12½"	1 3/16	0.638 sq. ft.	5NKL1	6WRJ1
18¼"	10⅛"	16½"	8½"	1 3/16	0.482 sq. ft.	5NKL2	6WRJ2
	18⅛"	16½"	16½"	1 3/16	1.020 sq. ft.	5NKL3	6WRJ3
20¼"	14⅛"	18½"	12½"	1 3/16	0.822 sq. ft.	5NKL4	6WRJ4
22¼"	12⅛"	20½"	10½"	1 3/16	0.759 sq. ft.	5NKL5	6WRJ5
	14⅛"	20½"	12½"	1 3/16	0.914 sq. ft.	5NKL6	6WRJ6
	16⅛"	20½"	14½"	1 3/16	1.120 sq. ft.	5NKL7	6WRJ7
	18⅛"	20½"	16½"	1 3/16	1.270 sq. ft.	5NKL8	6WRJ8
	22⅛"	20½"	20½"	1 3/16	1.580 sq. ft.	5NKL9	6WRJ9
26¼"	14⅛"	24½"	12½"	1 3/16	1.090 sq. ft.	5NKN0	6WRK0
	18⅛"	24½"	16½"	1 3/16	1.530 sq. ft.	5NKN1	6WRK1
	20⅛"	24½"	18½"	1 3/16	1.720 sq. ft.	5NKN2	6WRK2
	26⅛"	24½"	24½"	1 3/16	2.340 sq. ft.	5NKN3	6WRK3



No. 5NKK9

Scan. Order. Done.
Details on page A1.



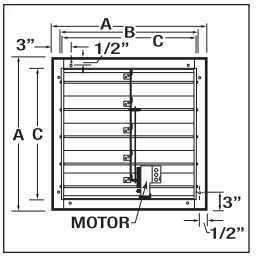
Single-Panel, Rear View No. 3C315



Single-Panel, Front View No. 3C725



Double-Panel, Front View No. 3C732



Motorized Dampers

- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm
- Motor includes end switch

Stainless steel jamb seals help minimize light, air, and moisture. Feature center-pivoting louvers for a full 90° opening. Flanged frames for flush mounting to exterior or interior surfaces. Prepunched mounting holes. Welded-corner construction and factory-installed motors. Mill-finish extruded aluminum models have 0.125"-thick frames, and 0.08"-thick louvers. G-90 galvanized steel models have 14-ga. frames, 16-ga. louvers.

For Fan Dia.	Volts 50/60 Hz	Overall Square A	Sq. Opening Req.	Frame Less Flange	Free Area	Motor Bracket Extension*	EXTRUDED ALUMINUM DAMPERS Item No.	G-90 GALVANIZED STEEL DAMPERS Item No.
Single Panel, Power Open, Spring Return								
12"	100 to 240	15"	13"	12 sq. in.	0.835 sq. ft.	6⅞"	**3HHP4**	**3HHP3**
16"	100 to 240	19"	17"	16 sq. in.	1.750 sq. ft.	6⅞"	**4C560**	**3C725**
20"	100 to 240	23"	21"	20 sq. in.	2.053 sq. ft.	6⅞"	**4C561**	**3C726**
24"	100 to 240	27"	25"	24 sq. in.	3.585 sq. ft.	6⅞"	**3C315**	**3C727**
30"	100 to 240	33"	31"	30 sq. in.	5.679 sq. ft.	10¼"	**3C234**	**3C728**
36"	100 to 240	39"	37"	36 sq. in.	8.252 sq. ft.	10¼"	**3C131**	**3C729**
42"	100 to 240	45"	43"	42 sq. in.	11.305 sq. ft.	10¼"	**3C235**	**3C730**
48"	100 to 240	51"	49"	48 sq. in.	14.836 sq. ft.	10¼"	**3C132**	**3C731**
Double Panel, Power Open, Spring Return								
54"	24 to 240	57"	55"	54 sq. in.	18.827 sq. ft.	10¼"	**3C188**	**3C732**
60"	24 to 240	63"	61"	60 sq. in.	23.314 sq. ft.	10¼"	**3C189**	**3C733**

** From damper frame to end of bracket.*



No. 5NKK1

Motorized Volume-Control Channel-Style Dampers

- 100 to 240V
- 50/60 Hz with end switch
- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm

Regulate airflow in medium- and low-pressure commercial applications. TPV louver seals and stainless steel jambs minimize leakage. Channel frames for installations inside walls or ductwork.

Actuator is internally installed. Mill-finish extruded aluminum frame (5" deep x 0.1" thick) and louvers (0.08" thick). Plated steel linkage and pivot pins.

Overall Square	Sq. Opening Req.	Free Area	Motor Bracket Extension*	Item No.
Single Panel, Power Open, Spring Return				
11¾"	12"	0.372 sq. ft.	11½"	**5NKK1**
15¾"	16"	1.050 sq. ft.	11½"	**5NKK2**
19¾"	20"	2.126 sq. ft.	11½"	**5NKK3**
23¾"	24"	3.172 sq. ft.	11½"	**5NKK4**
29¾"	30"	5.107 sq. ft.	11½"	**5NKK5**
35¾"	36"	7.559 sq. ft.	11½"	**5NKK6**
41¾"	42"	10.490 sq. ft.	11½"	**5NKK7**
47¾"	48"	13.900 sq. ft.	11½"	**5NKK8**

** From damper frame to end of bracket.*



No. 4HX64



No. 4HX73



No. 2FTW8



Shutter Motor No. 2FTX6

Backdraft Dampers

For belt-drive centrifugal roof and wall ventilators. Max. velocity: 2000 fpm for models up to 19" and no-flange, 2250 fpm for 23" and larger.

WARNING: Not for use with kitchen exhaust applications.

ROOF-MOUNT

G-90 galvanized steel frame, 2" deep with 1" flange. Aluminum louvers, stainless steel pivot pins, nylon bushings, and felted edge. Prepunched conduit hole knockout.

WALL-MOUNT

16-ga. mill-finish extruded aluminum frame, 1½" deep with 1⅜" flange. Mill-finish aluminum louvers have galvanized steel reinforcement strip. Spring close for positive seal.

NO FLANGE, HORIZONTAL/ VERTICAL MOUNT

For use in roof curbs, ductwork, and wall collars when using a fan or power roof ventilator. G-90 galvanized frame is 2" deep. Mill-finish aluminum louvers. Stainless steel pivot pins and rivets, and nylon bushings. Prepunched conduit knockout.

Note: Models over 30" are horizontal-mount only.

OPTIONAL SHUTTER MOTORS

Motor packs expand options where standard 120/240 line voltage is not available. 60 Hz, 1-phase motors simplify installation by eliminating the need for transformers or other adaptations. Not for use with 8" roof curbs.

Damper Size (in.)	Overall Size (in.)	Item No.
Roof-Mount, Exhaust Backdraft Dampers		
9½ x 9½	11½ x 11½	**3TZ50**
12 x 12	14 x 14	**4HX64**
15 x 15	17 x 17	**4HX65**
19 x 19	21 x 21	**4HX66**
23 x 23	25 x 25	**4HX67**
27 x 27	29 x 29	**4HX68**
35 x 35	37 x 37	**4HX69**
39 x 39	41 x 41	**4HX70**
50 x 50	52 x 52	**4HX71**
Wall-Mount, Supply Backdraft Dampers		
8 x 8	10¾ x 10¾	**4HX72**
10 x 10	12¾ x 12¾	**4HX73**
11 x 11	13¾ x 13¾	**4HX33**
12 x 12	14¾ x 14¾	**4HX74**
13 x 13	15¾ x 15¾	**4HX75**
14 x 14	16¾ x 16¾	**4HX76**
15 x 15	17¾ x 17¾	**4HX77**
17 x 17	19¾ x 19¾	**5NKN4**
20 x 20	22¾ x 22¾	**5NKN5**
25 x 25	27¾ x 27¾	**5NKN6**
No Flange, Horizontal or Vertical Mount Backdraft Exhaust Dampers		
7¾ x 7¾	7¾ x 7¾	**3HHL4**
9¾ x 9¾	9¾ x 9¾	**2FTW8**
11¾ x 11¾	11¾ x 11¾	**2FTX4**
13¾ x 13¾	13¾ x 13¾	**2FTX5**
15¾ x 15¾	15¾ x 15¾	**3HHL5**
17¾ x 17¾	17¾ x 17¾	**2FTU9**
19¾ x 19¾	19¾ x 19¾	**3HHL6**
23¾ x 23¾	23¾ x 23¾	**2FTV7**
27¾ x 27¾	27¾ x 27¾	**3HHL7**
29¾ x 29¾	29¾ x 29¾	**3HHL8**
No Flange, Horizontal Mount Backdraft Exhaust Dampers		
33¾ x 33¾	33 ¾ x 33 ¾	**3HHL9**
35¾ x 35¾	35¾ x 35¾	**3HHN1**
39¾ x 39¾	39¾ x 39¾	**3HHN2**
41¾ x 41¾	41¾ x 41¾	**6WRK7**
47¾ x 47¾	47¾ x 47¾	**3HHN3**
49¾ X 49¾	49¾ X 49¾	**6WRK8**
55¾ X 55¾	55¾ x 55¾	**5NKN7**
59¾ X 59¾	59¾ X 59¾	**5NKN8**
61¾ X 61¾	61¾ X 61¾	**6WRK9**
63¾ X 63¾	63¾ X 63¾	**5NKN9**

Voltage	Amps	H (in.)	W (in.)	D (in.)	Item No.
Optional Shutter Motors					
24	1.02	8½ (Installed)	4½	7¼	**2FTX6**
120/240	.20/.14	8½	4½	7¼	**24N066**
208	0.11	8½ (Installed)	4½	7¼	**2FTV1**
460	0.11	8½ (Installed)	4½	7¼	**2FTW4**

Fixed-Height Adjustable-Width Intake/Exhaust Louvers

Dayton®

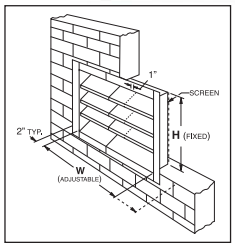
Tabbed louvers lock securely into frame, providing smooth finish and clean appearance. 9/32" x 1/2" oblong mounting holes. Blades are set at a 45° angle, 4" spacing. Use multiple louvers when larger sizes are needed. Each includes 2"x 2" bird screen and fasteners.

G-90 Galvanized Steel—4"-deep G-90 galvanized steel frame has 2" flanges.

3003 Aluminum—4" deep, 0.04" aluminum frame has 2" flange.



No. 4F422



Intake Louver Outside Height	Outside W (in.)	Inside H (in.)	Intake Louver Inside Width	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	G90 GALVANIZED STEEL Item No.	3003 ALUMINUM Item No.
18 in	16 to 22	14 in	12 in to 18 in	14H x 12W	616 cfm	875 cfm	0.360 to 0.550 sq ft	4F421	4F951
	28 to 46	14 in	24 in to 42 in	14H x 24W	1,565 cfm	2,240 cfm	0.740 to 1.310 sq ft	2FTV2	2FTV4
22 in	22 to 28	18 in	18 in to 24 in	18H x 18W	1,050 cfm	1,500 cfm	0.730 to 0.980 sq ft	3C972	4F952
	28 to 46	18 in	24 in to 42 in	18H x 24W	2,010 cfm	2,875 cfm	0.980 to 1.750 sq ft	2FTV5	2FTV9
28 in	22 to 34	24 in	18 in to 30 in	24H x 18W	1,750 cfm	2,500 cfm	1.140 to 1.950 sq ft	3C973	4F953
	40 to 52	24 in	36 in to 48 in	24H x 36W	3,030 cfm	4,330 cfm	2.350 to 3.150 sq ft	2FTY1	2FTX2
34 in	25 to 40	30 in	21 in to 36 in	30H x 21W	2,625 cfm	3,750 cfm	1.620 to 2.830 sq ft	4F422	4F954
40 in	28 to 40	36 in	24 in to 36 in	36H x 24W	3,150 cfm	4,500 cfm	2.350 to 3.570 sq ft	3C974	4F955
	40 to 52	36 in	36 in to 48 in	36H x 36W	4,200 cfm	6,000 cfm	3.570 to 4.790 sq ft	3C975	4F956
46 in	28 to 46	42 in	24 in to 42 in	42H x 24W	4,290 cfm	6,125 cfm	3.160 to 5.610 sq ft	4F423	4F957
52 in	28 to 40	48 in	24 in to 36 in	48H x 24W	5,200 cfm	6,000 cfm	3.230 to 4.900 sq ft	3C976	4F958
	40 to 52	48 in	36 in to 48 in	48H x 36W	5,600 cfm	8,000 cfm	4.900 to 6.570 sq ft	3C977	4F959

Fixed Intake/Exhaust Louvers

Dayton®

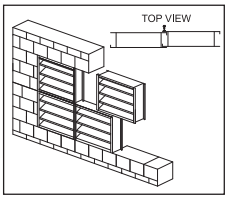
Modular units seamlessly fit together for custom openings. Channel style frame is 4" deep. Blades are positioned at approximately 45° and spaced approximately 4" center to center. Each unit includes pre-installed bird screen.

Galvannealed Steel—Very fine matte finish acts like a primer, easily accepts paint, and provides corrosion-resistance.

Aluminum—Strong, lightweight, and corrosion-resistant.



No. 4FZG4



Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	GALVANNEALED STEEL Item No.	ALUMINUM Item No.
17½"	17½	18H x 18W	744 cfm	1063 cfm	0.622 sq. ft.	4FZG3	4FZF3
23½"	23½	24H x 24W	1342 cfm	1918 cfm	1.384 sq. ft.	4FZG4	4FZF4
	35½	24H x 36W	2028 cfm	2897 cfm	2.175 sq. ft.	4FZG7	4FZF7
29½"	29½	30H x 30W	2115 cfm	3022 cfm	2.234 sq. ft.	4FZG6	4FZF6
35½"	23½	36H x 24W	2028 cfm	2897 cfm	2.091 sq. ft.	4FZG5	4FZF5
	35½	36H x 36W	3063 cfm	4376 cfm	3.286 sq. ft.	4FZG8	4FZF8
	47½	36H x 48W	4099 cfm	5855 cfm	4.481 sq. ft.	4FZH1	4FZG1
41½"	41½	42H x 42W	3876 cfm	5543 cfm	5.496 sq. ft.	53DR09	53DR08
47½"	35½	48H x 36W	4099 cfm	5855 cfm	4.397 sq. ft.	4FZG9	4FZF9
	47½	48H x 48W	5484 cfm	7834 cfm	5.996 sq. ft.	4FZH2	4FZG2

Drainable Blade Fixed Louvers

Dayton®

amca WORLDWIDE CERTIFIED RATINGS WATER PENETRATION AIR PERFORMANCE

Louvers—Designed to protect air intake and exhaust openings in exterior walls. 4" deep channel style frame and 0.090" thick extruded aluminum drainable fixed louver blades channel water away from the blades and down the jambs, eliminating water cascading from blade to blade. Includes 1/2" flattened aluminum birdscreen in removable frame mounted on interior.

Flange Kits—Flange kits speed installation by eliminating the need for site-fabricating flashing, while providing weather protection by covering small gaps in installations. Presized aluminum extrusion construction with prepunched mounting holes; mounting hardware included.



No. 5NKJ3

Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	LOUVERS Item No.	FLANGE KITS Item No.	LOUVERS WITH FLANGE KIT Item No.
11½"	11½	12H x 12W	144 cfm	188 cfm	0.359 sq. ft.	45C669	45C675	20UA07
17½"	17½	18H x 18W	744 cfm	1063 cfm	0.885 sq. ft.	5NKJ2	33W754	20UA08
23½"	23½	24H x 24W	1342 cfm	1918 cfm	1.878 sq. ft.	5NKJ3	33W755	20UA09
	35½	24H x 36W	2028 cfm	2897 cfm	2.951 sq. ft.	5NKJ6	33W758	20UA12
29½"	29½	30H x 30W	2115 cfm	3022 cfm	2.930 sq. ft.	5NKJ5	33W757	20UA11
35½"	23½	36H x 24W	2028 cfm	2897 cfm	2.917 sq. ft.	5NKJ4	33W756	20UA10
	35½	36H x 36W	3063 cfm	4376 cfm	4.583 sq. ft.	5NKJ7	33W759	20UA13
	47½	36H x 48W	4099 cfm	5855 cfm	6.216 sq. ft.	5NKJ9	33W761	20UA16
41½"	41½	42H x 42W	3734 cfm	4875 cfm	6.161 sq. ft.	45C678	33W762	20UA15
47½"	35½	48H x 36W	4099 cfm	5855 cfm	6.250 sq. ft.	5NKJ8	33W760	20UA14
	47½	48H x 48W	5484 cfm	7834 cfm	8.477 sq. ft.	5NKK0	33W763	20UA17
53½"	53½	54H x 54W	6511 cfm	8500 cfm	10.062 sq. ft.	45C670	45C676	20UA18
59½"	59½	60H x 60W	8187 cfm	10,688 cfm	12.963 sq. ft.	45C671	45C677	20UA19

Combination Louver Dampers

Dayton®

amca WORLDWIDE CERTIFIED RATINGS WATER PENETRATION AIR PERFORMANCE

Louvers—Designed to protect air intake and exhaust openings from rain and weather while still providing excellent air flow. Mill-finish extruded aluminum drainable frame is 4" deep, 0.081" thick, and has 45° fixed louvers spaced on 4" centers, with pivoting dampers and TPV seals for weathertight closure. Includes 1/2" flattened birdscreen in removable frame mounted on interior. Standard manually-operated linkage kit for opening and closing. Optional motor kit sold separately.

Flange Kits—Flange kits speed installation by eliminating the need for site-fabricating flashing, while providing weather protection by covering small gaps in installations. Presized aluminum extrusion construction with prepunched mounting holes; mounting hardware included.

Optional Motors—Optional actuators automatically close damper if a power failure occurs.



No. 5NKH7



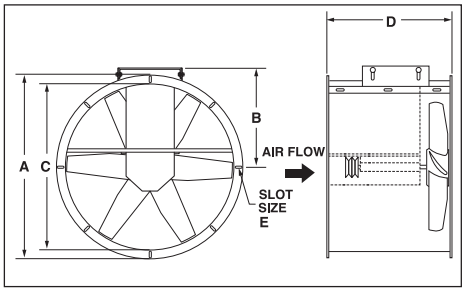
No. 5NKP0

Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	LOUVERS Item No.	FLANGE KITS Item No.	LOUVERS WITH FLANGE KIT Item No.
11½"	11½	12H x 12W	131 cfm	206 cfm	0.297 sq. ft.	45C672	45C675	20UA20
17½"	17½	18H x 18W	438 cfm	625 cfm	0.521 sq. ft.	5NKH6	33W754	20UA21
23½"	23½	24H x 24W	1005 cfm	1444 cfm	1.349 sq. ft.	5NKH7	33W755	20UA22
	35½	24H x 36W	1444 cfm	2269 cfm	2.120 sq. ft.	45C680	33W758	20UA25
29½"	29½	30H x 30W	1724 cfm	2475 cfm	2.203 sq. ft.	5NKH8	33W757	20UA24
35½"	23½	36H x 24W	1531 cfm	2406 cfm	2.330 sq. ft.	45C679	33W756	20UA23
	35½	36H x 36W	2406 cfm	3781 cfm	3.667 sq. ft.	5NKH9	33W759	20UA26
	47½	36H x 48W	3281 cfm	5156 cfm	5.000 sq. ft.	45C682	33W762	20UA29
41½"	41½	42H x 42W	3413 cfm	4875 cfm	5.010 sq. ft.	5NKJ0	33W761	20UA28
47½"	35½	48H x 36W	3369 cfm	5294 cfm	5.214 sq. ft.	45C681	33W760	20UA27
	47½	48H x 48W	5027 cfm	7219 cfm	7.109 sq. ft.	5NKJ1	33W763	20UA30
53½"	53½	54H x 54W	5950 cfm	9350 cfm	8.504 sq. ft.	45C673	45C676	20UA31
59½"	59½	60H x 60W	7481 cfm	11,756 cfm	11.165 sq. ft.	45C674	45C677	20UA32

Description	Item No.
Accessories	
Optional Actuator Motor, 100 to 240V, 50/60 Hz, For Use With 12" to 48" Dayton Combination Louver Dampers, Includes Mounting Bracket, Linkage and 36" Leads With Junction Box	5NKP0
Optional Motor Pack, 24 to 240V, 50/60 Hz, For 54" and 60" Models, Includes Actuator, Mounting Bracket, Linkage and 36" Leads,	20XG62



No. 7F961 Shown with Drive Package



Dayton

amca CERTIFIED RATINGS

Belt-Drive Tubeaxial Fans

- Mount: vertical or horizontal
- Permanently lubricated ball bearings
- Max. inlet air temp.: 200°F
- Max. ambient: 104°F
- Precision-balanced, spark-resistant aluminum blades
- Belt guards
- AMCA Type B spark-resistant propellers (99-0401-86)
- Optional companion flanges are sold in pairs

Streamlined belt tunnel ventilates the drive compartment with air from outside the fan. Steel housing is iron phosphate-processed for rust protection; baked enamel paint finish. Factory installed cast-iron sheave is assembled on fan shaft. Motors and belts are packed separately when complete fan with drive package is ordered.

Note: These fans cannot be used if the environment surrounding them is not always free of flammable gases, vapors, or liquids; combustible dust; or ignitable fibers or flyings. Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and the National Fire Protection Act (NFPA).

OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel. Review OSHA Codes and UL Standards.

Blade Dia.	Dim. A	Dim. B	C	D	E	Max. Motor H	Shaft Dia.	No. of Blades	REPLACEMENT FAN BLADE Item No.	COMPANION FLANGE Item No.	INLET OR OUTLET GUARD Item No.	DISCHARGE CAP Item No.	CURB CAP Item No.
12"	14 7/16"	8 3/4"	12 1/4"	12"	5 1/16"	9"	5/8"	4	4C662	4C716	3DNX8	—	—
16"	18 3/4"	11 1/2"	16 1/8"	16 1/2"	5 1/16"	9"	7/8"	6	4C663	4C717	3DNX9	4YM54	4YM46
18"	21 1/8"	12 1/2"	18 1/2"	16 1/2"	5 1/16"	9"	7/8"	6	4C715	4C718	3DNY1	4YM55	4YM47
21"	23 1/8"	16 3/4"	21 1/2"	18"	7/16"	10"	1"	6	4ETG3	1LWN9	3DNY2	5JKF5	5JKF4
24"	27"	16 3/4"	24 5/16"	18"	7/16"	10"	1"	6	4C664	3C436	3DNY3	4YM56	4YM48
30"	33 3/8"	19 1/4"	30 1/2"	24"	7/16"	10"	1 3/16"	6	3C418	3C440	3DNY4	4YM57	4YM49
34"	37 3/4"	21 3/8"	34 1/2"	29"	7/16"	10"	1 3/16"	6	3C419	3C441	3FHV3	4YM58	4YM50
36"	39 3/4"	22 7/16"	36 1/2"	29"	7/16"	10"	1 3/16"	6	3C420	3C442	3DNY5	4YM59	4YM51
42"	45 3/4"	25 9/16"	42 1/2"	32"	9/16"	12 1/2"	1 7/16"	6	3C421	3C443	3DNY6	4YM50	4YM52
48"	51 3/4"	28 9/16"	48 1/2"	36"	9/16"	12 1/2"	1 7/16"	6	3C422	3C444	3DNY7	4YM61	4YM53
54"	57 3/4"	31 1/2"	54 5/8"	39"	9/16"	16 1/8"	1 7/16"	6	5JKE8	5JKE6	5JKF6	5JKF2	5JKF0
60"	64 1/4"	34 9/16"	60 5/8"	43 3/8"	9/16"	16 7/8"	1 11/16"	6	5JKE9	5JKE7	5JKF7	5JKF3	5JKF1

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.500" SP*	CFM @ 0.750" SP*	CFM @ 1.000" SP*	Sones @ 0.250" SP @ 5 ft.#	Motor HP	Max. BHP†	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed, 1-Phase Motor, 115/230V Item No.	Totally Enclosed, 3-Phase Motor, 230/460V Item No.	Hazardous Location, 1-Phase Motor, 115/230V Item No.	Hazardous Location, 3-Phase Motor, 230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
12"	1300	1170	990	—	—	—	19.7	1/4	0.25	1670	7F921	7AF32	7AF31	—	
	1767	1667	1561	—	—	—	34	1/3	0.24	2090	7F924	7AF33	7F925	7AF34	4C659
	1904	1812	1719	1429	—	—	42	1/2	0.31	2253	7F927	7AF35	7F928	7AF36	
	2432	2360	2287	2126	1905	—	59	3/4	0.60	2877	7F930	7AF37	7F931	7AF38	
16"	2379	2152	1820	779	—	—	24	1/3	0.25	1570	7F933	7AF39	7F934	7AF40	
	2727	2530	2288	1335	711	—	28	1/2	0.41	1800	7F936	7AF41	7F937	7AF42	4C660
	3365	3205	3045	2576	1685	1103	34	3/4	0.69	2221	7F939	7AF43	7F940	7AF44	
	3859	3720	3580	3238	2744	1892	46	1	1.00	2547	7F942	7AF45	7F943	—	
18"	3230	2976	2680	1254	—	—	24	1/3	0.34	1375	7F945	7AF47	7F946	7AF48	
	3494	3261	2997	2192	794	—	24	1/2	0.48	1487	7F948	7AF49	7F949	7AF50	
	4039	3841	3624	3112	1850	923	26	3/4	0.72	1719	7F951	7AF51	7F952	7AF52	4C661
	4671	4504	4321	3914	3421	2163	32	1	0.91	1988	7F954	7AF53	7F955	—	
	5298	5152	4994	4460	4270	3803	38	1 1/2	1.29	2255	7F957	7AF55	7AF56 ##	7F958	
21"	3522	3106	—	—	—	—	18.4	1/3	0.18	989	7AH33 ††	7AF61	7AH38	7AF62	
	4042	3689	3266	—	—	—	22	1/2	0.26	1135	7AH34	7AF57	7AH39	7AF58	
	4733	4438	4106	3224	—	—	26	3/4	0.45	1329	7AH35	7AF59	7AH40	7AF60	3NXF4
	5407	5154	4885	4218	2357	—	32	1	0.67	1518	7AH36	7AF63	7AH41	7AF64	
	6564	6357	6146	5678	5092	4187	45	1 1/2	1.20	1843	7AH37	7AF65	7AH42 ##	7AF66	
24"	5730	5300	4800	—	—	—	23	1/2	0.42	1062	7AF67	7AF69	7AF68	7AF70	
	6470	6096	5678	4600	—	—	29	3/4	0.65	1199	7AF71	7AF73	7AF72	7AF74	
	7085	6742	6371	5484	3164	—	34	1	0.98	1312	7F960	7AF75	7F961	7AF76	3C411
	7925	7626	7305	6562	5634	2914	39	1 1/2	1.38	1468	7AF77	7F830	7AF78 ##	7F833	
	9112	8856	8573	7983	7290	6445	43	2	1.98	1688	7AF79	7F831	—	7F834	
	10,310	10,084	9850	9332	8769	8143	50	3	2.77	1910	7AF80	7F832	—	7F835	
30"	8940	8257	7463	—	—	—	24	3/4	0.71	841	7AF81	7AF83	7AF82	7AF84	
	9825	9211	8519	6695	—	—	28	1	0.93	924	7AF85	7AF87	7AF86	7AF88	
	10,955	10,415	9815	8359	—	—	31	1 1/2	1.40	1030	7AF89	7F840	7AF90 ##	7F844	3C412
	12,190	11,710	11,180	9990	8485	—	41	2	1.90	1146	7AF91	7F841	—	7F845	
	14,040	13,630	13,180	12,220	11,105	9740	52	3	2.91	1320	7AF92	7F842	—	7F846	
	16,495	16,150	15,785	14,995	14,145	13,190	62	5	4.72	1551	7AF93 ‡	7F843	—	7F847	
34"	14,430	13,760	13,020	11,285	7155	—	39	2	1.83	936	7AF94	7F851	—	7F854	
	16,560	15,985	15,350	13,965	12,305	7750	50	3	2.78	1074	7AF95	7F852	—	7F855	3C413
	19,290	18,800	18,280	17,150	15,880	14,445	61	5	4.36	1251	7AF96 ‡	7F853	—	7F856	
36"	12,520	11,511	10,323	—	—	—	27	1	0.96	687	7AF97	7AF99	7AF98	7AG00	
	14,285	13,420	12,456	9930	—	—	32	1 1/2	1.40	784	7AG01	7AG03	7AG02 ##	7AG04	
	15,255	14,455	13,570	11,430	—	—	33	2	1.82	837	7AG05	7F860	—	7F863	3C414
	17,570	16,890	16,135	14,450	12,345	—	47	3	2.79	964	7AG06	7F861	—	7F864	
	20,650	20,080	19,460	18,135	16,605	14,825	60	5	4.53	1133	7AG07 ‡	7F862	—	7F865	
42"	17,460	16,144	14,600	—	—	—	35	1 1/2	1.40	607	7AG08	7AG10	7AG09 ##	7AG11	
	19,275	18,095	16,770	13,300	—	—	36	2	1.87	670	7AG12	7AG13	—	7AG14	
	21,465	20,430	19,275	16,565	—	—	38	3	2.76	746	7AG15	7F870	—	7F874	
	25,320	24,460	23,505	21,435	18,965	—	50	5	4.53	880	7AG16 ‡	7F871	—	7F875	3C415
	29,150	28,410	27,610	25,900	23,960	21,775	66	7 1/2	6.88	1013	7AG17 ‡	7F872	—	7F876	
	33,005	32,355	31,670	30,185	28,620	26,850	82	10	9.98	1147	—	7F873	—	7F877	
48"	31,260	30,070	28,745	25,810	22,170	—	64	5	5.00	731	7AG18 ‡	7F881	—	7F884	
	35,365	34,325	33,185	30,750	27,900	24,390	88	7 1/2	7.25	827	7AG19 ‡	7F882	—	7F885	3C416
	38,100	37,140	36,105	33,885	31,380	28,550	112	10	9.04	891	—	7F883	—	7F886	
54"	34,793	33,166	31,540	27,453	—	—	32	5	4.661	590	—	7AU03	—	7AU04	
	39,805	38,383	36,962	33,708	29,537	—	42	7 1/2	7.153	675	—	7AU05	—	7AU06	5JKE4
	43,815	42,523	41,232	38,431	35,295	30641	48	10	9.745	743	—	7AU07	—	7AV00	
60"	40,079	37,913	35,632	29,609	—	—	37	5	4.79	493	—	7AU08	—	7AU09	
	45,933	44,043	42,153	37,684	30,620	—	48	7 1/2	7.405	565	—	7AU10	—	7AU11	5JKE5
	50,567	48,850	47,133	43,254	38,441	—	60	10	9.449	622	—	7AU12	—	7AV01	

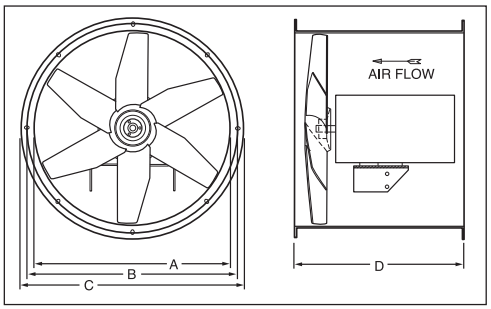
** Performance shown is for installation Type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. †† 115V only. ‡ 230V only. ## 208/230V only.*

Direct-Drive Tubeaxial Fans

- Totally enclosed ball bearing motors
- Max. inlet/ambient air temp.: 104°F
- Precision-balanced aluminum propellers
- No. 1DGZ9 2-speed control is required for 2-speed models (except No. 4TM84); see Grainger.com®

Designed to efficiently move air in medium-length ductwork. Motor, blades, and housing are shipped assembled and operate in any position. Steel housing is coated with baked enamel finish. 115V, except No. 4TM84 is 230V, and Nos. 4TM85 and 2XZH2 are 200-230/460V, 3-phase. Tubeaxial fan discharge caps and curb caps sold separately on Grainger.com®. All fans are UL Listed.

WARNING: Not for hazardous location applications.





No. 4TM82

Blade Dia.	Dim. A	Dim. B	C	D	RECOMMENDED ACCESSORIES: Companion Flange Item No.	Inlet/ Outlet Guard Item No.
12"	12¼"	13⁷⁄₁₆"	14¹⁹⁄₃₂"	14"	4C716	3DNX8
16"	16⅛"	17½"	18½"	14"	4C717	3DNX9
18"	18½"	19⅞"	21"	16"	4C718	3DNY1
18"	18½"	19⅞"	21"	16"	4C718	3DNY1
21"	21⁵⁄₁₆"	22¹⁹⁄₃₂"	23⅞"	16"	1LWN9	3DNY2
24"	24½"	25¹³⁄₁₆"	26⅞"	18"	3C436	3DNY3
30"	30¹⁹⁄₃₂"	32⁵⁄₁₆"	33¹⁹⁄₃₂"	21"	3C440	3DNY4

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.375" SP*	CFM @ 0.500" SP*	Sones @ 0.250" SP @ 5 ft.#	Full Load Amps	Motor HP	Max. BHP	Motor RPM	Item No.
2- Speed, 1-Phase											
12"	1627/1079	1465	1182	—	—	17.1/9.9	4/2	¼	0.14/0.04	1750/1160	4TM80
16"	2763/1832	2595/1530	2388	—	—	22/14.9	5.5/3.6	⅓	0.36/0.10	1750/1160	4TM81
18"	3938/2610	3724/2299	3521/1807	3323	3058	25/20	6.7/4.6	½	0.52/0.14	1750/1160	4TM82
18"	4670/3095	4436/2738	4198/2266	3947	3653	30/22	11.4/6.7	¾	0.80/0.21	1750/1160	4TM83
21"	6193/4105	5970/3760	5738/3341	5489/2167	5211	26/15.2	5/3	1	1.10/0.33	1750/1160	4TM84
1- Speed, 3-Phase											
24"	8555	8105	7613	6998	—	20	4.1/4.2/2.1	1	1.02	1160	4TM85
30"	14792	14208	13624	13036	12419	29	10/9.4/4.7	3	3.06	1160	2XZH2

** Performance shown is for installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels.*

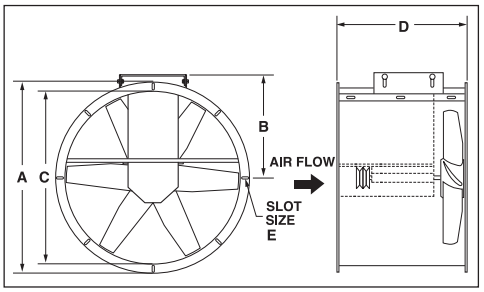
Belt-Drive Stainless Steel Tubeaxial Fans

- Mount: vertical or horizontal
- Permanently lubricated ball bearings
- Max. inlet air temp.: 200°F
- Max. ambient air temp.: 104°F
- Precision-balanced, corrosion-resistant stainless steel blades
- Belt guards
- Optional companion flanges are sold in pairs

Designed for food processing applications. Streamlined belt tunnel ventilates the drive compartment with air from outside the fan. Factory installed cast-iron sheave is assembled on fan shaft. Motors and belts are packed separately when complete fan with drive package is ordered. Tubeaxial fan discharge caps and curb caps sold separately on Grainger.com®.

Note: These fans cannot be used if the environment surrounding them is not always free of flammable gases, vapors, or liquids; combustible dust; or ignitable fibers or flyings. Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and the National Fire Protection Act (NFPA).

OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel. Review OSHA Codes and UL Standards.





No. 4GXU5

Blade Dia.	Dim. A	Dim. B	C	D	E	Max. Motor H	Shaft Dia.	No. of Blades	14 GA. 304 STAINLESS STEEL TUBEAXIAL COMPANION FLANGES Item No.
24"	27"	16¾"	24⁵⁄₁₆"	18"	7⁄₁₆"	10"	1"	6	4ETF9
30"	33⅝"	19¼"	30½"	24"	7⁄₁₆"	10"	1³⁄₁₆"	6	4ETG1
48"	51¾"	28⁹⁄₁₆"	48½"	36"	9⁄₁₆"	12½"	1⁷⁄₁₆"	5	4ETG2

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.500" SP*	CFM @ 0.750" SP*	Sones @ 0.250" SP @ 5 ft.#	Motor HP	Max. BHP†	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed, 1-Phase Motor, 115/230V Item No.	Totally Enclosed, 3-Phase Motor, 230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
24"	5730	5300	4800	—	—	23	½	0.422	1062	7AG32	7AG33	4GXU5
	6470	6096	5678	4600	—	29	¾	0.65	1199	7AG36	7AG38	
	7085	6742	6371	5484	3164	34	1	0.98	1312	7AG40	7AG42	
	7925	7626	7305	6562	5634	39	1½	1.38	1468	7AG46	7AG44	
	9112	8856	8573	7983	7290	43	2	1.98	1688	7AG49	7AG48	
	10,310	10,084	9850	9332	8769	50	3	2.77	1910	7AG52	7AG51	
30"	8940	8257	7463	—	—	24	¾	0.718	841	7AG54	7AG56	4GXU6
	9825	9211	8519	6695	—	28	1	0.939	924	7AG58	7AG60	
	10,955	10,415	9815	8359	—	31	1½	1.40	1030	7AG64	7AG62	
	12,190	11,710	11,180	9990	8485	41	2	1.90	1146	7AG65	7AG67	
	14,040	13,630	13,180	12,220	11,105	52	3	2.91	1320	7AG70	7AG69	
	16,495	16,150	15,785	14,995	14,145	62	5	4.72	1551	7AG71	7AG73	
48"	31,260	30,070	28,745	25,810	22,170	64	5	5.00	731	7AG76 ‡	7AG75	4GXU7
	35,365	34,325	33,185	30,750	27,900	88	7½	7.25	827	7AG79 ‡	7AG78	
	38,100	37,140	36,105	33,885	31,380	112	10	9.04	891	—	7AG81	

** Performance shown is for installation Type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ 230V only.*


No. 22CV88


No. 22CW02

BROAN
ULTRA™ Series Fans

- 120V
- Ceiling-mount

Designed for easy installation in either new construction or retrofit applications. Provide the quietest sound rating available. Deliver intermittent and continuous ventilation.

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Mfr. Model	Item No.
Fan	110 cfm	0.6	0.3	4 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 3	RB110	**35ZU32**
Fan/LED Light, Dimmable	110 cfm	0.8	1.0	4 in	13 ¾ in	14 ¼ in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3	RB110L1	**35ZU34**
Fan	80 cfm	0.3	0.3	4 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 3	RB80	**35ZU31**
Fan/LED Light, Dimmable	80 cfm	0.3	1.0	4 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3	RB80L1	**35ZU33**
Fan	110 cfm	Less than 0.3	0.2	6 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	XB110	**22CV88**
Fan/LED Light	110 cfm	Less than 0.3	0.9	6 in	13 in	13 ¾ in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	XB110L1	**22CV90**
Fan	80 cfm	Less than 0.3	0.1	4 in or 6 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	XB80	**22CV87**
Fan/LED Light	80 cfm	Less than 0.3	0.7	4 in or 6 in	13 in	13 ¾ in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	XB80L1	**22CV89**
Multi-Speed Fan	110 cfm	Less than 0.3	0.2	6 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110	**22CV92**
Multi-Speed Fan with Humidity Sensing	110 cfm	Less than 0.3	0.4	6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110H	**22CV98**
Multi-Speed Fan/LED Light with Humidity Sensing	110 cfm	Less than 0.3	1.0	6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110HL1	**22CW02**
Multi-Speed Fan/LED Light	110 cfm	Less than 0.3	0.9	6 in	13 in	13 ¾ in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110L1	**22CV94**
Multi-Speed Fan/LED Light with Motion Sensing	110 cfm	Less than 0.3	0.4	6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110M	**22CV99**
Multi-Speed Fan/LED Light with Motion Sensing	110 cfm	Less than 0.3	1.0	6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB110ML1	**22CW03**
Multi-Speed Fan	80 cfm	Less than 0.3	0.1	4 in or 6 in	13 in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB80	**22CV91**
Multi-Speed Fan/LED Light	80 cfm	Less than 0.3	0.8	4 in or 6 in	13 in	13 ¾ in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB80L1	**22CV93**
Multi-Speed Fan with Motion Sensing	80 cfm	Less than 0.3	0.3	4 in or 6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB80M	**22CV97**
Multi-Speed Fan/LED Light with Motion Sensing	80 cfm	Less than 0.3	0.9	4 in or 6 in	13 ⅛ in	14 in	7 ⅜ in	10 ½ in	11 ⅜ in	1, 2, 3, 4	ZB80ML1	**22CW01**

Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.


No. 45KA68


No. 45KA71

InVent™ Series Fans

BROAN

- 120V
- Ceiling-mount

These mid-range fans feature foldable mounting ears and a damper and housing design that helps prevent air leaks. Suitable for new construction or room-side retrofit installations.

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Housing Height	Housing Length	Housing Width	Grille Length	Grille Width	Foot-notes	Mfr. Model	Item No.
Fan	50	0.5	0.2	4"	5¾"	10"	9¼"	12"	11½"	1, 2, 3, 4	AE50	**45KA68**
Fan	80	0.8	0.3	4"	5¾"	10"	9¼"	12"	11½"	1, 2, 3, 4	AE80	**45KA67**
Fan	80	1.5	0.3	4"	5¾"	10"	9¼"	12"	11½"	1, 2, 3, 4	AE80B	**45KA70**
Fan	80	2.0	0.37	4"	5¾"	10"	9¼"	12"	11½"	2, 3	A80	**45KA77**
Fan	80	2.0	0.37	4"	5¾"	10"	9¼"	12"	11"	2, 3	A80HD	**45KA79**
Fan	110	1.3	0.3	4"	5¾"	10"	9¼"	12"	11½"	1, 2, 3	AE110	**45KA75**
Fan	110	3	0.4	4"	5¾"	10"	9¼"	12"	11½"	2, 3	A110	**45KA74**
Fan/Light	50	1.5	1.0	4"	5¾"	10"	9¼"	12⅛"	11½"	2, 3	A50L	**45KA78**
Fan/Light	70	2.0	1.2	4"	5¾"	10"	9¼"	12⅛"	11½"	2, 3	A70L	**45KA73**
Fan/Light/Night Light	80	2.0	1.2	4"	5¾"	10"	9¼"	12⅛"	11½"	2, 3	A80L	**45KA72**
Fan/Light/Night Light	110	1.8	1.2	4"	5¾"	10"	9¼"	12⅛"	11½"	2, 3	A110L	**45KA71**

Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.


No. 4LA32


No. 4LA33

QT Series Fans

BROAN

- 120V
- Ceiling-mount

Designed with quiet motor engineered for continuous operation.
Fit 2" x 8" ceiling construction.

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Housing Height	Housing Length	Housing Width	Grille Length	Grille Width	Foot-notes	Mfr. Model	Item No.
Fan	80	0.3	0.200	6"	7⅝"	11⅜"	10½"	14"	13"	1, 2, 3, 4	QTXE080	**4LA32**
Fan	110	0.7	0.3	6"	7⅝"	11⅜"	10½"	14"	13"	1, 2, 3, 4	QTXE110	**4LA34**
Fan	150	1.4	0.5	6"	7⅝"	11⅜"	10½"	14"	13"	1, 2, 3, 4	QTXE150	**4LA36**
Fan/Fluorescent Light/Night Light	80	0.3	0.8	6"	7⅝"	11⅜"	10½"	13¾"	13"	1, 2, 3, 4	QTXE080FLT	**4LA33**
Fan/Fluorescent Light/Night Light	110	0.7	1	6"	7⅝"	11⅜"	10½"	13¾"	13"	1, 2, 3, 4	QTXE110FLT	**4LA35**
Fan/Heater/Incandescent Light/Night Light	110	0.9	14.6	6"	7⅝"	17⅝"	11⅜"	20"	15"	2, 3, 4	QTX110HL	**4LA42**
Fan/Heater/Fluorescent Light/Night Light	110	0.9	13.5	6"	7⅝"	17⅝"	11⅜"	20"	15"	2, 3, 4	QTX110HFLT	**5AFH2**
Quiet Bath Fan/Light/Night Light	150	1.4	1	6"	7⅝"	11⅜"	10½"	13¾"	13"	1, 2, 3, 4	QTXE150FLT	**4LA37**

Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.


No. 4C374


No. 1UCF2

BROAN

Ventilation Fans and Fan/Lights

- 120V

Feature a powerful centrifugal blower wheel with high-exhaust capacity with low sones.

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Mounting Location	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Mfr. Model	Item No.
Deluxe Ceiling or Wall Fan	50 cfm	3.5	0.8	3 in	Ceiling or Wall	9 in	9 ¼ in	3 ⅜ in	7 ¼ in	7 ½ in	2, 3	670	**4C375**
Ceiling or Wall Fan	70 cfm	6.0	1.15	3 in	Ceiling or Wall	9 in	9 ¼ in	3 ⅜ in	7 ¼ in	7 ½ in	2, 3	671	**4C376**
Economy Ceiling or Wall Fan	50 cfm	4.0	0.9	3 in	Ceiling or Wall	9 in	9 ¼ in	3 ⅜ in	7 ¼ in	7 ½ in	2, 3	688	**4C374**
Economy Ceiling or Wall Fan	60 cfm	5.5	1.5	3 in	Ceiling or Wall	9 in	9 ¼ in	3 ⅜ in	7 ¼ in	7 ½ in	2, 3, 4	689	**5C100**
Duct-Free Bathroom Fan	—	—	1.0	—	Ceiling or Wall	8 ½ in	8 ½ in	3 ¾ in	7 ⅛ in	7 ⅛ in	3	682	**1UCF2**
Accessory													
Ceiling Radiation Damper Kit; For Use With 5E831,5E832,4C377,4C772, 15J070, 15J071; Includes Grille, Radiation Damper And Duct Connector, Plastic Guard (with No Housing)											3	RDJ1	**15J078**

Footnotes: 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.

Silent Low-Profile Ceiling Fans

Dayton

- 115V
- Ceiling-mount; adjustable mounting brackets included
- 1-speed thermally-protected motor

Compact fans quietly exhaust moisture, odor, and heat from bathrooms, showers, rec rooms, meeting rooms, utility rooms, and offices. High-impact polystyrene grille securely fastens for rattle-free operation; concealed screws. (Optional lighted grille kits sold separately.) Rigid 24-ga. galvanized steel housing has integral backdraft damper. Each includes electrical junction box and disconnect. For adjustable rotary speed controls, see page 2955. UL Listed for use above bathtubs and showers when connected to a GFCI-protected branch circuit.

CFM @ 0.100" SP*	CFM @ 0.250" SP*	Sones @ 0.100" SP @ 5 ft.‡	Sones @ 0.250" SP @ 5 ft.‡	Full Load Amps	Motor RPM†	Duct Dia.	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Item No.
53	40	1.4	2.0	0.50	625							3, 5	3DPE2
75	54	0.8	1.4	0.16	675							1, 3, 5	1UBH6
81	62	0.9	1.3	0.16	900							1, 3, 5	1UBH7
92	72	1.0	1.5	0.18	700	6"	14⅞"	13¼"	7"	13⅞"	11½"	1, 3, 5	5AE68
114	97	1.5	2.0	1.14	950							3, 5	1UBH8
156	154	2.5	3.0	1.70	1050							3, 5	5AE69
195	191	4.0	4.5	2.20	1100							3, 5	3DPE3
Accessories													
LED Lighted Grille Kit, For Use With 1UBH6, 1UBH7, 1UBH8, 3DPE2, 3DPE4, 3DPE5, 3DPE6, 5AE68, 5AE69, 5AE70, 5AE71, 5AE72, 5AE73, 5AE74													52WX70
Grille Kit, For Use With 1UBH6, 1UBH7, 1UBH8 , 3DPE2, 3DPE3 , 5AE68, 5AE69, 3DPE4, 3DPE5, 3DPE6, 5AE70, 5AE71, 5AE72, 5AE73, 5AE74													34G192
Replacement Motor, For Use With 5AE69, 6WZN4													34G194
Ceiling Radiation Damper (For Nonlighted Units), For Use with 1UBH6, 1UBH7, 1UBH8, 3DPE2, 3DPE3, 3DPE6, 5AE68, 5AE69, 5AE72, 5AE73 and 5AE74													3DPF8
Ceiling Radiation Damper (For Lighted Units), For Use with Nos. 3DPE2, 1UBH6 to 1UBH8, 5AE68, and 5AE69													3DPG1



No. 5AE68



No. 52WX70

** Performance certified is for installation Type B: free inlet, ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. † Speed (rpm) shown is nominal. Performance is based on actual speed of test. ‡ The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a spherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet spherical sone levels.*

Footnotes: 1—ENERGY STAR qualified. 3—UL and C-UL Listed. 5—AMCA Sound and Air Certified.

Ventilation Fans and Fan/Lights

Panasonic



No. 448F55



No. 448F60

- 120V
- Ceiling mount

Single fan with Pick-A-Flow™ speed selector for choosing desired CFM, and SmartFlow™ technology allows optimum CFM performance. Powerful, quiet, and ideal for new construction or replacement. Nos. 490X05 to 490X07 have a Flex-Z Fast™ bracket to ease installation, and a junction box for wiring in tight spaces. All models are UL Listed for use over a tub/shower enclosure when used with a GFCI protected circuit. Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code.

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Mfr. Model	Item No.
WhisperCeiling DC™												
Fan	50/80/110	0.3, 0.3, 0.3	0.07, 0.11, 0.18	4" or 6"	13"	13"	7½"	10¼"	10¼"	1, 2, 3	FV-0511VQ1	448F55
Fan	110/130/150	0.3, 0.3, 0.3	0.12, 0.16, 0.19	6"	13"	13"	7½"	10¼"	10¼"	1, 2, 3	FV-1115VQ1	448F56
Fan	190	0.8	0.34	6"	15"	15"	9 3/32"	12 3/32"	12 3/32"	1, 2, 3	FV-20VQ3	20JP86
Fan	290	2.0	0.53	6"	15"	15"	9 3/32"	12 3/32"	12 3/32"	1, 2, 3	FV-30VQ3	20JP87
Fan	380	3.0	0.99	6"	17 23/32"	17 23/32"	14 51/64"	14 51/64"	9 27/32"	1, 2, 3	FV-40VQ4	20JP88
Fan/LED Light	50/80/110	0.3, 0.3, 0.4	0.07, 0.11, 0.18	4" or 6"	13"	13"	7½"	10¼"	10¼"	1, 2, 3	FV-0511VQL1	448F57
WhisperSense DC™, Motion Sensor, Humidity Sensor & Time Delay												
Fan	50/80/110	0.3, 0.3, 0.3	0.07, 0.11, 0.18	4" or 6"	13"	13"	7½"	10¼"	10¼"	1, 2, 3	FV-0511VQC1	448F59
Fan/LED Light	50/80/110	0.3, 0.3, 0.4	0.07, 0.11, 0.18	4" or 6"	13"	13"	7½"	10¼"	10¼"	1, 2, 3	FV-0511VQCL1	448F60
WhisperFit® EZ, Low-Profile Housing*												
Fan	80, 110	0.3, 0.8	0.18, 0.23	4" or 3"	13"	13"	5⅜"	10¼"	10¼"	1, 2, 3, 4	FV-08-11VF5	40GT21 *
Fan/Motion Sensor	80, 110	0.3, 0.8	0.18, 0.23	4" or 3"	13"	13"	5⅜"	10¼"	10¼"	1, 2, 3, 4	FV-08-11VFM5	40GT20 *
WhisperFit® EZ, Medium-Profile Housing												
Fan/LED Light & Night Light	80/110	0.4, 1.0	0.17, 0.23	4" or 3"	13"	13"	5⅜"	10½"	10½"	1, 2, 3, 4	FV-08-11VFL5E	55AD42
WhisperGreen Select™												
Fan	50/80/110	0.3, 0.3, 0.3	0.04, 0.06, 0.10	4" or 6"	13"	13"	7⅜"	10¼"	10¼"	1, 2, 3	FV-0511VK2	490X05
Fan	110/130/150	0.3, 0.3, 0.3	0.08, 0.10, 0.14	6"	13"	13"	7⅜"	10¼"	10¼"	1, 2, 3	FV-1115VK2	490X06
Fan/Multi-Speed	50/80/110	0.3, 0.3, 0.3	0.04, 0.06, 0.10	4" or 6"	13"	13"	7⅜"	10¼"	10¼"	1, 2, 3	FV-0511VKS2	490X07

*Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL and C-UL Listed. 4—ASHRAE compliant. * Sone and Amp data are for 4" duct.*

Specialty Fans

BROAN

- 120V

The 744 Series Fan/Light units are UL Listed for use over bathtub or shower when connected to GFCI protected branch circuit. No. 1UMW2 includes a 14W fluorescent lamp and 4" round damper/duct connector. No. 22CW04 is a solution for installations where conventional ventilation won't fit. Excellent for multifamily settings with limited access behind drywall. Fits in a wall with 2 x 4 studs. ENERGY STAR qualified and Title 24 Compliant.



No. 4LA31



No. 22CW04

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Mounting Location	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Mfr. Model	Item No.
Exhaust Fan/LED Light	110	1.5	0.5	4"	Ceiling	12⅝"	12⅝"	5¾"	9¼"	10"	2, 3, 4	791LEDM	45JT69
Recessed Fan/LED Light	70	1.5	0.55	4"	Ceiling	7⅜" Dia.	7⅜" Dia.	6⅛"	12¾"	8¼"	1, 2, 3, 4	744LED	20JP19
Recessed Fan/Light	70	1.5	1.2	4"	Ceiling	7⅜" Dia.	7⅜" Dia.	6⅛"	8¼"	12¾"	2, 3, 4	744	4LA31
Recessed Fan/Fluorescent Light	70	1.5	0.7	4"	Ceiling	7⅜" Dia.	7⅜" Dia.	6¾"	8¼"	12¾"	1, 2, 3, 4	744FL	1UMW2
Low Profile Fan	80	1.1	0.3	4" or 3"	Ceiling or Wall	14"	13"	4"	11⅜"	10½"	1, 2, 3	LP80	22CW04
Vertical Discharge Fan	60	4.5	1	6"	Ceiling	8" Dia.	8" Dia.	5¼"	6¼" dia.	6¼" dia.	2, 3	673	4C050

Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.

Bath and Ventilation Fans

BROAN

- 120V
- Ceiling-mount

4" ducting. No. 4C378 is designed with a plug-in, permanently lubricated motor. Also feature mounting ears for quick, sturdy installation. Fan/Heater/Lights add comforting warmth to your bathroom and are operated by 2 or 3 function wall controls. No. 56EC08 offers effective protection against bacteria, mold, and fungi growth.



No. 4C378



No. 4C540

Description	CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Amps	Duct Dia.	Heat Watts	Grille Length	Grille Width	Housing Height	Housing Length	Housing Width	Foot-notes	Mfr. Model	Item No.
Fan, Low Profile	110	1.5	—	4"	—	—	—	—	—	—	1, 2, 3	LP110	55VG01
Fan/Heater/Light	110	2.0	—	4"	1500	—	—	—	—	—	2, 3	765H110LB	56EC20
Fan/Heater/Light	—	—	2.1	—	250 max.	10¼"	10¼"	6"	8⅛"	8⅜"	2, 3	161	39W508
Fan/Heater/Light	—	—	4.3	—	500 max.	10¼"	15⅝"	6"	8⅜"	14¼"	2, 3	163	39W509
Fan/Light	50	2.5	1.6	4"	—	11⅛"	10⅝"	5¾"	8¼"	8"	2, 3	678	4C378
Fan/Light	100	4.5	2	4"	—	16¾"	10⅝"	5¾"	14¼"	8¼"	2, 3	696	39W533
Fan/Light	100	3.5	1.9	4"	—	15 Dia.	15 Dia.	6"	9"	9"	2, 3	751	39W534
Fan/Light/Antimicrobial Light	110	1.0	—	4"	—	12¼"	12¼"	—	—	—	—	AR110LKVV	56EC08
Heater/Fan, 1-Bulb	70	4.0	2.5	4"	250	10¼"	10¼"	6⅜"	8⅛"	8⅜"	2, 3	162	4C538
Heater/Fan, 2-Bulb	70	4.0	4.5	4"	500	15⅝"	10¼"	6⅜"	14¼"	8⅜"	2, 3	164	4C540

Footnotes: 1—ENERGY STAR qualified. 2—HVI Certified. 3—UL Listed. 4—ASHRAE compliant.



No. 4TR42



No. 4TR49

LoSone® Ventilators

BROAN

- Motors: low rpm, permanently lubricated
- 120V, except No. 4TR55 is 240V
- Optional accessories sold separately

Easy to wire from inside or outside of housing. Resilient motor mounts. Impact-resistant, balanced centrifugal blower wheel. UL and C-UL Listed, except In-Line Cabinet Ventilators are UL Listed only.

Insulated—Feature acoustic insulation and built-in automatic backdraft damper. Convertible from horizontal to vertical ducting. Can be field converted to in-line ventilation (adapter kits sold separately).

In-Line—Outlet duct connection includes dampers. Convertible from horizontal to vertical discharge. Same-size inlet and outlet ducts and removable access panel ease installation and service.

In-line Cabinet—Large-capacity in-line ventilators have acoustic insulation.

CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Sones @ 0.100" SP @ 5 Ft.**	Full Load Amps	Watts	Motor RPM	Housing Dim. H	L	W	Inlet Dim. H	W	Discharge Dim. H	W	Grille Dim. L	W	Speed Control	Mfr. Model	Item No.
Insulated																				
Polymeric Grille Material																				
136	109	93	80	65	0.8	1.10	87	640	11¾"	12¼"	12¼"	—	—	6"	—	14"	14"		L100	**4TR42**
181	157	141	132	124	1.4	1.3	100	710	11¾"	12¼"	12¼"	—	—	6"	—	14"	14"		L150	**4TR44**
231	210	196	186	177	1.8	1.80	127	740	11¾"	12¼"	12¼"	—	—	8"	—	14"	14"	4C331 or 6E897	L200	**4TR48**
272	259	250	242	233	2.3	2.1	166	830	11¾"	12¼"	12¼"	—	—	8"	—	14"	14"		L250	**4TR51**
312	308	303	296	287	2.9	2.60	212	905	11¾"	12¼"	12¼"	—	—	8"	—	14"	14"		L300	**4TR53**
Metal Grille Material																				
480	434	388	344	299	2.4	1.4	146	735	11¾"	21½"	12¼"	—	—	4½"	18½"	23¼"	14"	4C331 or 6E897	L400	**4TR56**
538	514	491	463	434	3.1	2.20	232	810	11¾"	21½"	12¼"	—	—	4½"	18½"	23¼"	14"		L500	**4TR58**
722	701	667	640	607	4.6	2.90	313	960	11¾"	21½"	12¼"	—	—	4½"	18½"	23¼"	14"		L700	**4TR60**
918	901	877	842	793	4.0	3.00	306	650	18"	22"	18"	—	—	8"	12"	23⅞"	19⅞"	4C254 or 6E898	L900	**4TR62**
1578	1513	1438	1371	1285	8.4	5.00	468	955	18"	22"	18"	—	—	8"	12"	23⅞"	19⅞"		L1500	**4TR45**
In-Line																				
121	106	97	93	86	0.7	1.10	87	760	11¾"	12¼"	12¼"	6 Dia.	—	6"	—	—	—		L100L	**4TR43**
153	147	140	134	125	1.0	1.3	100	920	11¾"	12¼"	12¼"	6 Dia.	—	6"	—	—	—		L150L	**4TR47**
205	195	190	185	175	1.9	1.80	127	865	11¾"	12¼"	12¼"	8 Dia.	—	8"	—	—	—		L200L	**4TR50**
248	245	241	235	224	2.3	2.1	166	1005	11¾"	12¼"	12¼"	8 Dia.	—	8"	—	—	—	4C331 or 6E897	L250L	**4TR52**
300	293	285	274	259	3.0	2.60	212	1145	11¾"	12¼"	12¼"	8 Dia.	—	8"	—	—	—		L300L	**4TR54**
450	406	360	313	271	1.6	1.4	146	775	11¾"	12¼"	21¼"	4½	18½"	4½"	18½"	—	—		L400L	**4TR57**
546	519	496	472	447	2.4	2.20	232	890	11¾"	12¼"	21¼"	4½	18½"	4½"	18½"	—	—		L500L	**4TR59**
704	681	656	631	604	3.8	2.90	313	1090	11¾"	12¼"	21¼"	4½	18½"	4½"	18½"	—	—		L700L	**4TR61**
930	894	853	807	754	3.8	3.00	306	810	18"	22"	18"	8	12"	8"	12"	—	—	4C254 or 6E898	L900L	**4TR63**
1275	1214	1152	1092	1029	6.8	5.00	468	1055	18"	22"	18"	8	12"	8"	12"	—	—		L1500L	**4TR46**
In-Line Cabinet																				
1891	1791	1657	1508	1347	9.8	5.80	590	965	14⅝"	38"	14⅝"	12⅜	35¾"	7¾"	33¾"	—	—	4C254 or 6E898	L2000L	**4TR49**
3605	3452	3278	3073	2893	14.8	5.40	1204	1105	16¾"	45¾"	16¾"	14½	43½"	9¾"	41⅜"	—	—	Broan Model 75V	L3500EXL	**4TR55**
Accessories																				
Internal Unit-Mount, 3 Amp Adjustable Speed Control, Galvanized, For Use With Insulated and In-Line LoSone Ventilators																			80L	**2HYC2**
Replacement Motor For Use with Nos. Mfr. No. L200 and L200L																			99080483	**1AAD4**
Replacement Motor For Use with Mfr. No. L500, L500L, and L500K																			99080487	**1AAD3**

**** Performance ratings include the effects of inlet grille and backdraft damper in the air stream. Speed (rpm) shown is nominal. Performance is based on actual speed of test. ** The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: Free inlet fan sone levels. Performance shown is for installation Type B: Free inlet, ducted outlet.***



No. 4YG82

LoSone® Kitchen Ventilators

BROAN

Residential ceiling ventilators have built-in automatic backdraft dampers located in duct connectors. Resilient motor mounts and impact-resistant, balanced centrifugal blower wheel. Horizontal or vertical ducting. 8-way adjustable mounting bracket. No. 4YG82 has 14" x 14" painted white metal grille. No. 4YG83 is 14" x 23¼". 120VAC. UL and C-UL Listed.

CFM @ Static Pressure Shown* 0.000"	0.100"	0.125"	0.250"	0.500"	0.625"	0.750"	Sones @ 0.100" SP @ 5 Ft.**	Amps	Watts	RPM	Housing Dim. (in.) H	L	W	Discharge Dim. (in.) H	W	Dia.	Mfr. Model	Item No.
286	279	277	272	261	253	241	3.0	2.6	212	790	11¾	12¼	12¼	—	—	8	L300KMG	**4YG82**
506	484	481	460	418	389	337	4.3	2.2	232	700	11¾	21½	12¼	4½	18½	—	L500K	**4YG83**
Accessories																		
Replacement Motor L300 For Use with Mfr. No. L300KMG																	99080485	**1AAD1**
Replacement Motor For Use with Mfr. No. L500, L500L, and L500K																	99080487	**1AAD3**

**** Performance ratings include the effects of inlet grille and backdraft damper in the air stream. Speed (rpm) shown is nominal. Performance is based on actual speed of test. ** The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 201. Values shown are for Installation Type B: free inlet fan sones levels. Performance shown is for Installation Type B: free inlet, ducted outlet.***



No. 4C701



No. 4C699

8 and 10" Ceiling and Ceiling/Wall Exhaust Fans

BROAN

- Motors: plug-in, permanently lubricated, thermally protected, 60 Hz

Adjustable mounting brackets span 14" to 24". 9-blade polymeric propellers. Plastic grilles are white, paintable; steel grilles are white, powder-coated. UL Listed.

Ceiling, Vertical Discharge—Fans fit between 16" or 24" ceiling joists and feature easily accessible outlet box. Series 505 fans connect to 8" round duct and include built-in backdraft damper. Series 504 fans connect to 10" or 8" round duct using No. 4C207 reducer/damper, sold separately.

Ceiling/Wall, Side Discharge—Fans fit between ceiling joists or 2" x 4" wall studs. Connect to 3¼" x 10" duct and include built-in backdraft damper.

Duct Dia. (in.)	CFM @ 0.100" SP	Sones HVI	Voltage	Amps	Motor RPM	Housing H (in.)	Housing Dia. (in.)	Grille Dim. (in.) L	W	Grille Material	Mfr. Model	Item No.
Ceiling, Vertical Discharge												
8	180	6.5	120	1.5	1975	7	8¼	11½	11½	Plastic	505	**4C701**
10	350	6.5	120	1.7	1600	7	10¼	13½	13½	Plastic	504	**4C700**
Ceiling/Wall, Side Discharge												
3¼ x 10	160	5.0	120	1.5	1725	3¼		11½	11½	Plastic	503	**4C699**
3¼ x 10	270	8.0	120	1.7	1600	3¼		13½	13½	Plastic	502	**4C698**
Accessories												
Reducer/Damper, For Use with 4C700, 5C054 and 5HYG4											472	**4C207**
Replacement Motor, For Use with Mfr. No. 502, 504MG, 506, 508, 504MG, 506MG											99080596	**1AAC7**

Insulated Ventilators

- Motors: 1-speed, thermally protected, 115V
- Adjustable mounting brackets included

Acoustic insulation absorbs sound for quiet, high-performance ventilation of bathrooms, meeting rooms, utility rooms, and offices. White grille and spring-loaded backdraft damper operates rattle-free. Exhaust outlet can be rotated from horizontal to vertical discharge, except for No. 3DPE4. External electrical access reduces installation time. Galvanized steel housing with electrical junction box and disconnect. Power assembly is removable. Adjustable rotary speed controls sold separately on page 2955. UL and C-UL Listed for above tub/shower when connected to a GFCI branch-protected circuit.

EC Motor Models— ★Dayton® Feature electronically commutated motors that provide up to 70% energy savings. Potentiometer dial on motor allows a wide RPM range to customize airflow. Optional EC Control Kits sold separately on page 2955.

CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Sones @ 0.100" SP @ 5 Ft.‡	Full Load Amps	Watts	60 Hz Motor RPM†	Housing Dim. H	L	W	Discharge Dim. H	W	Grille Dim. L	W	Grille Material	Speed Control	Item No.
EC Motor, Insulated, Singlewide																		
260	165	—	—	—	0.3			500										
416	335	269	—	—	1.5	3.30	224	800	14½"	18"	14⅜"	8"	8"	19⅜"	16⅜"	Aluminum	35YV94	**36WG64** ‡
557	501	439	392	325	4.5			1070										
390	266	—	—	—	1.1			560										
564	498	396	—	—	3.0	4.40	285	810	14½"	18"	14⅜"	8"	10"	19⅜"	16⅜"	Aluminum		**36WG65**
752	701	653	588	486	6.0			1080										
Insulated, Singlewide																		
114	98	80	—	—	Less Than 0.3	0.15	16.9	870	9"	13¼"	10⅝"	6"	6"	14⅞"	13¼"	Polystyrene		**3DPE4** #
130	115	98	—	—	Less Than 0.3	0.16	19.4	950	9"	13¼"	10⅝"	6"	8"	14⅞"	13¼"	Polystyrene		**5AE70** #
144	127	109	—	—	0.4	0.19	23	1010	9"	13¼"	10⅝"	6"	8"	14⅞"	13¼"	Polystyrene		**3DPE5** #
229	210	186	156	—	2.1	0.45	54.2	1400	9"	13¼"	10⅝"	6"	8"	14⅞"	13¼"	Polystyrene		**5AE71** #
267	242	224	199	162	2.0	0.47	56	900	11¼"	14"	11⅞"	8"	8"	14⅞"	13¼"	Polystyrene	48C172	**5AE72** #
294	271	250	230	201	2.5	0.56	67	1000	11¼"	14"	11⅞"	8"	8"	14⅞"	13¼"	Polystyrene		**3DPE6** #
315	287	257	231	207	2.5	0.72	81	1050	11¼"	14"	11⅞"	8"	8"	14⅞"	13¼"	Polystyrene		**5AE73**
410	391	368	345	325	4.4	1.34	135	1300	11¼"	14"	11⅞"	8"	8"	14⅞"	13¼"	Polystyrene		**5AE74**
443	405	351	306	—	3.0	1.74	121	1000	14½"	18"	14⅜"	8"	8"	19⅜"	16¾"	Polystyrene		**6WZN1**
557	501	439	392	325	4.5	3.30	224	1070	14½"	18"	14⅜"	8"	8"	19⅜"	16⅜"	Polystyrene		**5AE75**
752	701	653	588	486	6.0	4.40	285	1050	14½"	18"	14⅜"	8"	10"	19⅜"	16⅜"	Polystyrene		**6WZN2**
812	775	741	704	665	8.3	3.30	348	1600	14½"	18"	14⅜"	8"	10"	19⅜"	16⅜"	Aluminum		**5AE77**
Insulated, Doublewide																		
757	723	700	679	649	5.0	3.20	350	1100	11⅝"	23⅜"	11⅝"	8"	19½"	25⅛"	13½"	Aluminum	48C172	**5AE76**
955	896	841	773	701	4.7	4.00	285	1050	14½"	23¾"	14⅜"	8"	18¾"	25"	16⅜"	Aluminum		**5AE78**
1125	1043	964	885	796	5.7	6.30	420	1095	14½"	23¾"	14⅜"	8"	18¾"	25"	16⅜"	Aluminum		**5AE79**
1455	1404	1353	1307	1262	9.7	7.40	786	1450	14½"	23¾"	14⅜"	8"	18¾"	25"	16⅜"	Aluminum	48C173	**5AE80**
1607	1558	1506	1449	1407	10.0	8.60	818	1610	14½"	23¾"	14⅜"	8"	18¾"	25"	16⅜"	Aluminum		**5AE81**
Accessories																		
LED Lighted Grille Kit, For Use With 1UBH6, 1UBH7, 1UBH8, 3DPE2, 3DPE4, 3DPE5, 3DPE6, 5AE68, 5AE69, 5AE70, 5AE71, 5AE72, 5AE73, 5AE74																		**52WX70**
Grille Kit, For Use With 1UBH6, 1UBH7, 1UBH8 , 3DPE2, 3DPE3 , 5AE68, 5AE69, 3DPE4, 3DPE5, 3DPE6, 5AE70, 5AE71, 5AE72, 5AE73, 5AE74																		**34G192**
Ceiling Radiation Damper (For Nonlighted Units), For Use with 3DPE4, 3DPE5, 5AE70, and 5AE71																		**3DPF7**
Ceiling Radiation Damper (For Nonlighted Units), For Use with 1UBH6, 1UBH7, 1UBH8, 3DPE2, 3DPE3, 3DPE6, 5AE68, 5AE69, 5AE72, 5AE73 and 5AE74																		**3DPF8**
Ceiling Radiation Damper (For Lighted Units), For Use with 3DPE4, 3DPE5, 5AE70, and 5AE71																		**3DPF9**
Round Duct Connector, Duct Size 6", Includes Backdraft Damper, For Use With 5AE70, 5AE71, 3DPE5, 3DPE7, 3DPE8																		**6WZP2**
Round Duct Connector, Duct Size 8", For Use With 5AE72, 5AE73, 5AE74, 5AE75, 3DPE6, 3DPE9, 3DPF1, 3DPF2, 3DPF3, 6WZN1, 6WZN6, 6WZN7																		**6WZP3**



No. 3DPE4



No. 5AE76



No. 34G192

**** Performance certified is for installation Type B: free inlet, ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. † Speed (rpm) shown is nominal. Performance is based on actual speed of test. ‡ The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a spherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet, spherical sone levels. Sones value for No. 36WG64 is <0.3/1.5/4.5. # ENERGY STAR qualified.***

In-Line Cabinet Ventilators

- Motors: 1-speed, thermally protected; open dripproof, except No. 5AE83 is totally enclosed
- Mounting brackets included

Large-capacity, insulated fans provide quiet multiple-area ventilation in commercial, institutional, or industrial settings such as utility rooms and bathrooms. Easy to wire with external electrical access cover. Spring-loaded backdraft damper eliminates vibration. The exhaust outlet rotates from horizontal to vertical discharge, except Nos. 6WZN3 to 6WZN5. The wheel is polypropylene, except aluminum on Nos. 5AE82 and 5AE83. Each includes electrical access knockouts, disconnect, junction box, and fan access panel. Adjustable rotary speed controls sold separately on page 2955. UL and C-UL Listed.

EC Motor Models— ★Dayton® Feature electronically commutated motors that provide up to 70% energy savings. Potentiometer dial on motor allows a wide RPM range to customize airflow. Optional remote-mount EC Control Kits sold separately on page 2955.

CFM @ Static Pressure Shown* 0.000"	0.100"	0.125"	0.250"	0.375"	0.500"	0.625"	Sones @ 0.100" SP @ 5 Ft.‡	Full Load Amps	Watts	60 Hz Motor RPM†	Housing Dim. H	L	W	Inlet Dim. H	W	Discharge Dim. H	W	Speed Control	Item No.
EC Motor, Singlewide																			
280	208	180	—	—	—	—	0.3			550									
407	366	355	276	—	—	—	0.3	3.11	218	800	14½"	18"	14⅜"	13¼"	16⅞"	8"	8"	35YV94	**36WG66** ‡
545	514	506	464	405	324	—	2.0			1070									
382	295	259	—	—	—	—	0.3			560									
553	500	487	387	—	—	—	0.4	4.40	333	810	14½"	18"	14⅜"	13¼"	16⅞"	8"	10"		**36WG67** ‡
737	698	688	635	567	475	334	2.5			1080									
Singlewide																			
124	112	110	102	77	—	—	0.8	0.62	20	950	9"	13¼"	10⅝"	9¼"	12"	6"	8"		**3DPE7**
215	202	198	180	159	121	—	1.5	1.10	55	1400	9"	13¼"	10⅝"	9¼"	12"	6"	8"		**3DPE8**
254	231	226	203	178	145	109	0.4	0.43	58	900	11¼"	14"	11⅞"	10"	12⅛"	8"	8"		**6WZN6**
266	246	241	221	205	187	165	1.0	0.79	67	1000	11¼"	14"	11⅞"	10"	12⅛"	8"	8"		**3DPE9**
318	299	292	265	248	229	201	1.2	0.71	80	1050	11¼"	14"	11⅞"	10"	12⅛"	8"	8"	48C172	**3DPF1**
412	400	397	382	363	339	324	2.0	1.33	144	1350	11¼"	14"	11⅞"	10"	12⅛"	8"	8"		**3DPF2**
447	441	403	364	317	217	—	1.5	1.87	135	1000	14½"	18"	14⅜"	13¼"	16⅞"	8"	8"		**6WZN7**
545	514	506	464	405	324	—	2.1	3.11	217	1070	14½"	18"	14⅜"	13¼"	16⅞"	8"	8"		**3DPF3**
737	698	688	635	567	475	334	2.5	4.40	325	1050	14½"	18"	14⅜"	13¼"	16⅞"	8"	10"		**6WZN8**
813	784	777	742	707	672	638	3.0	3.77	405	1600	14½"	18"	14⅜"	13¼"	16⅞"	8"	10"		**6WZN9**
Low Profile																			
103	100	100	98	97	96	94	1.5	1.15	80	950	7"	13⅞"	11½"	3¼"	10¼"	6" Dia.	6" Dia.		**6WZN3**
151	150	149	148	144	146	142	2.0	1.70	129	1050	7"	13⅞"	11½"	3¼"	10¼"	6" Dia.	6" Dia.	48C172	**6WZN4**
186	184	184	182	181	179	175	3.0	2.20	173	1100	7"	13⅞"	11½"	3¼"	10¼"	6" Dia.	6" Dia.		**6WZN5**
Doublewide																			
766	755	752	739	726	702	678	1.9	3.20	350	1100	11⅝"	23⅜"	11⅝"	10½"	22⅝"	8"	19½"	48C172	**3DPF4**
908	852	841	782	715	631	—	1.4	4.9	328	1050	14½"	23¾"	14¾"	13¼"	22⅝"	8"	18¾"		**6WZP0**
1182	1110	1093	1013	922	832	743	2.4	6.65	455	1095	14½"	23¾"	14¾"	13¼"	22⅝"	8"	18¾"		**3DPF5**
1584	1543	1533	1483	1439	1395	1345	3.2	7.80	822	1450	14½"	23¾"	14⅜"	13¼"	22⅝"	8"	18¾"	48C173	**3DPF6**
1672	1618	1604	1543	1484	1427	1367	4.5	9.00	830	1610	14½"	23¾"	14⅜"	13¼"	22⅝"	8"	18¾"		**6WZP1**
2249	2175	2156	2044	1900	1701	1424	4.5	7.80	735	1050	14¾"	35"	14¾"	13"	32¾"	6"	28"		**5AE82**
3778	3653	3622	3460	3280	3091	2844	5.0	12/6.3	1330	1100	16½"	45½"	16½"	14⅜"	43¼"	11"	40"	—	**5AE83**
Accessories																			
Round Duct Connector, Duct Size 6", Includes Backdraft Damper, For Use With 5AE70, 5AE71, 3DPE5, 3DPE7, 3DPE8																			**6WZP2**
Round Duct Connector, Duct Size 8", For Use With 5AE72, 5AE73, 5AE74, 5AE75, 3DPE6, 3DPE9, 3DPF1, 3DPF2, 3DPF3, 6WZN1, 6WZN6, 6WZN7																			**6WZP3**



No. 3DPE7



No. 6WZN3



No. 5AE82

**** Performance certified is for installation Type D: ducted inlet, ducted outlet. Performance ratings include the effects of a backdraft damper. † Speed (rpm) shown is nominal. Performance is based on actual speed of test. ‡ The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a spherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet spherical sone levels. Ratings do not include the effects of a duct end correction. Ratings are based on 10 ft. of insulated duct. The AMCA Certified Ratings Seal applies to air performance only. Sones value for No. 36WG66 is <0.3/<0.3/2.0. Sones value for No. 36WG67 is <0.3/0.4/2.5.***


No. 5C516


No. 22N753


No. 4YM43


No. 6KVY5

fantech

Centrifugal In-Line Duct Fans

- Mount: horizontally or vertically
- Bearings: ball
- Speed controls, designer grilles, and dampers sold separately, this page

Prewired fans have lower sound levels than comparable surface-mounted fans. Max. temp.: 140°F. Mounting bracket included. All are UL and C-UL Listed, except No. 2GKG4 is CSA Certified and ASHRAE compliant.

THERMOPLASTIC

External wiring box with waterproof gasket. UV protected. ENERGY STAR qualified.

GALVANIZED STEEL

Externally mounted wiring box, 3"L x 3½"W x 1½"D.

FG Series—Airtight housing. Backward curved impeller.

FKD Series—Mixed flow impeller. Nos. 6KVY5 to 6KVZ3 have sealed ball bearings.

RADON FAN

Higher pressure capabilities are designed for radon mitigation.

FAN CONTROL

Each has a 20-min. speed boost and 20-min. override. For Fantech fans only.

Description	Mfr. Model	Item No.
Fan Control		
Programmable Fan Speed Control, 300W, 120V, White	VT 20M	**2GKG4**

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	1.000"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	Mfr. Model	Item No.
Thermoplastic													
4"	151	120	94	63	20	—	120V	0.17	19	9½"	9⅝"	FR100	**5C516** †
4"	187	168	150	128	112	95	120V	0.72	80	9½"	9⅝"	FR110	**15W682**
6"	327	320	247	200	163	118	120V	0.59	62	11¾"	9⅝"	FR150	**5C517**
6"	345	295	252	197	157	135	120V	0.99	116	11¾"	9⅝"	FR160	**15W685**

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	1.500"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	Mfr. Model	Item No.
Galvanized Steel															
FG Series, EC Motors															
6"	363	344	323	305	287	247	206	113	120V	1.00	74	13⅛"	9"	FG 6M EC	**22N753**
8"	428	405	380	357	334	285	239	121	120V	0.50	71	13⅜"	8"	FG 8 EC	**22N754**
10"	513	482	448	418	388	335	283	160	120V	0.65	94	13⅜"	6⅞"	FG 10 EC	**22N755**
12"	633	616	594	582	560	515	467	379	120V	0.95	136	16"	8¹⁵⁄₁₆"	FG 12 EC	**22N756**
12"	805	772	734	692	650	556	474	315	120V	1.16	166	16"	9³⁄₁₆"	FG 12XL EC	**22N757**
FG Series, External Rotor Motors															
4"	170	157	146	135	126	90	86	40	120V	0.66	71	8¾"	9¾"	FG 4XL	**15W687**
6"	418	388	356	320	292	195	186	101	120V	1.02	120	13⅛"	13⅛"	FG 6M	**15W690**
8"	461	429	395	355	323	204	191	97	120V	1.14	119	13⅜"	13¼"	FG 8	**15W692**
6"	483	462	439	412	389	299	289	201	120V	1.48	153	13⅛"	13⅛"	FG 6XL	**15W691**
10"	513	492	471	446	425	334	324	216	120V	1.43	138	13⅜"	13¼"	FG 10	**15W693**
12"	741	703	660	606	558	380	363	236	120V	1.87	181	16"	16"	FG 12	**15W694**
FG Series, Totally Enclosed Motors															
4"	135	123	106	89	69	33	—	—	120V	0.19	20	8¾"	8½"	FG4	**4YM43**
6"	303	284	260	241	214	172	134	58	120V	0.68	72	11⅜"	6⅛"	FG6	**4YM44**
8"	502	482	460	438	408	360	313	218	120V	1.45	142	13⅜"	8"	FG8XL	**4YM45**
10"	589	570	553	538	517	480	441	355	120V	1.96	196	13⅜"	6⅞"	FG10XL	**4YM41**
12"	940	903	865	834	783	689	596	425	120V	3	301	16"	8¹⁵⁄₁₆"	FG12XL	**4YM42**
FKD Series															
8"	836	799	761	720	680	595	499	286	120V	2.99	327	12½"	15½"	FKD 8XL	**6KVY5**
10"	910	873	836	795	752	653	547	342	120V	3.01	329	12½"	15"	FKD 10	**6KVY6**
10"	1266	1226	1187	1147	1100	1006	911	696	120V	4.84	529	14"	15"	FKD 10XL	**6KVY7**
12"	1305	1266	1228	1189	1145	1054	948	712	120V	4.86	531	14"	12½"	FKD12	**6XZ77**
12"	2016	1920	1832	1746	1649	1423	1066	—	120V	4.8	500	17⅞"	18⅞"	FKD12XL	**4YM40**
14"	2156	2061	1965	1868	1764	1520	1193	—	120V	4.76	495	17⅞"	17¼"	FKD 14	**6KVY8**
14"	2619	2517	2416	2303	2180	1936	1662	843	120V	7.12	738	19¾"	20¼"	FKD 14XL	**6KVY9**
16"	2952	2831	2707	2580	2445	2144	1804	774	120V	6.39	742	19¾"	18¾"	FKD16	**6XZ78**
16"	4274	4144	4014	3880	3743	3452	3137	2379	120V	12.4	1421	22⅛"	23¼"	FKD 16XL	**6KVZ0**
18"	4448	4992	4130	3991	3871	3583	3239	2380	120V	12.04	1411	22⅛"	21¾"	FKD 18	**6KVZ1**
18"	6236	6115	5995	5874	5754	5500	5199	4909	230/460V	3.75	1873	22¼"	27¼"	FKD 18XL	**6KVZ2**
20"	6291	6174	6054	5933	5829	5617	5307	4987	230/460V	3.75	2218	22¼"	27¾"	FKD 20	**6KVZ3**

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.500"	0.750"	1.000"	1.500"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	H	D	Mfr. Model	Item No.
Radon Fan														
6"	375	285	235	183	125	120V	1.3	152	11¾"	9.375"	9⅜"	—	RN3	**15W763**

** Lengths include mounting flanges. † Accepts 4" and 5" duct.*


No. 12K675


No. 3CGA9

Mixed Flow In-Line Duct Fans

- 120V, 60 Hz
- Mount: horizontally or vertically
- Motor: totally enclosed
- Bearings: ball

Motor-impeller assembly can be removed without interfering with attached ducting. UL and C-UL Listed. HVI Certified. ENERGY STAR qualified.

TD-MIXVENT Series—Low-profile fans deliver excellent airflow-to-pressure ratio. Nos. 3CGA3 to 3CGA7 have thermoplastic casings and ABS plastic propellers. Nos. 3CGA9 and 3CGC1 have metal casings with epoxy-polyester coating and metal propellers.

TD-SILENT Series—Extremely quiet, low-profile fans have perforated inner skin with sound-absorbent insulation. Rubber gaskets on inlet and outlet absorb vibration. Thermoplastic casings and ABS plastic propellers.

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	1.500"	Max. Amps	Max. Wattage	Housing Dia.	L	Mfr. Model	Item No.
TD-MIXVENT Series														
4"	101/97	85/81	57/51	19/16	—	—	—	—	0.45	26/23	5⁷⁄₁₆"	9⅛"	TD-100	**3CGA3**
6"	293/218	273/193	250/163	227/128	206/105	131/24	35	—	0.54	65/54	7⅞"	8⅜"	TD-150	**3CGA6**
8"	538/476	495/422	458/373	418/317	367/260	190/40	10	—	0.8	184/139	8½"	9¼"	TD-200	**3CGA7**
10"	754/541	715/475	680/418	640/355	606/295	520/218	405/170	245/65	2.2	241/162	10¾"	11½"	TD-250	**3CGA9**
12"	1050/751	990/670	932/545	850/420	770/285	600/190	420/130	255/55	2.3	335/208	13¼"	14"	TD-315	**3CGC1**
TD-SILENT Series														
6"	333/239	315/209	286/181	271/154	257/120	178/62	77/0	—	0.54	65	8¹¹⁄₁₆"	10¹³⁄₁₆"	TD-150S	**12K675**
8"	530/409	503/367	472/333	443/306	415/271	349/183	204/46	—	1.01	122	10⅜"	12⅞"	TD-200S	**12K676**

Dayton

Centrifugal In-Line Duct Fans

- 120V, 60 Hz
- Mount: horizontally or vertically
- Bearings: ball
- Speed controllable

In-line design allows fan mounting away from room for quiet operation. Precision balanced for vibration-free performance and have a quiet and efficient BC impeller. Durable, heavy-gauge, drawn steel housing with an epoxy finish, and motor has automatic reset thermal overload protection.

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	Max. Amps	Max. Wattage	Motor RPM	Housing Dia.	L	Item No.	
4"	147	119	75	45	14	0.38	43	2580	9"	9"	450Z04	
	150	107	61	30	—	0.69	43	2580	9"	9"	450Z15	*
	150	107	61	30	—	0.69	83	2620	9"	9"	450Z05	
5"	179	144	91	54	18	0.37	44	2520	9"	9"	450Z06	
	183	130	73	37	—	0.69	83	2620	9"	9"	450Z16	*
	183	130	73	37	—	0.69	85	2750	9"	9"	450Z07	
6"	213	171	108	63	21	0.38	47	2390	9"	9"	450Z08	
	337	271	171	100	34	0.38	85	2520	9"	9"	450Z17	*
	337	271	171	100	34	0.72	89	2450	13"	10"	450Z09	
8"	371	298	189	113	37	0.68	84	2500	13"	10"	450Z10	
	571	459	289	168	57	1.50	188	2550	13"	10"	450Z11	
	571	459	289	168	57	1.50	188	2450	13"	10"	450Z18	*
10"	630	507	319	191	63	1.70	197	2470	13"	10"	450Z12	
	630	507	319	191	63	1.70	197	2550	13	10"	450Z20	*
12"	801	643	407	240	80	1.60	206	2450	16"	13"	450Z13	
	1038	835	527	309	103	2.40	312	2780	16"	13"	450Z14	
	1038	835	527	309	103	2.40	312	2780	16"	13"	450Z19	*

** Cord included.*


No. 450Z04

fantech

Remote-Mounted Premium Bath Fan Kits

- 120V, 60 Hz
- Motors: totally enclosed, thermally protected with automatic reset
- Bearings: permanently sealed ball

Can be installed away from bathroom for quiet operation. Galvanized steel housing. ENERGY STAR qualified.

Single Grille—Provide 1 vent in 1 bathroom. Each includes 1 centrifugal fan, collar and grille, backdraft damper, and fan mounting bracket.

Dual Grille—Provide 2 vents in 1 bathroom or 1 vent in 2 bathrooms using 1 fan. Each includes centrifugal fan, 2 collar/grille combinations, 2 backdraft dampers, fan mounting bracket(s), and 1 Y-duct adapter to split duct to each grille. No. 45TU14 has 1 lit and 1 unlit ceiling grille.


No. 6C509

Description	Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	Max. Amps	Max. Wattage	Motor RPM	Housing Dia.	L	Inlet & Outlet Dia.	Mfr. Model	Item No.
Single Grille														
Without Lights, 1" Flange	4"	135	110	80	55	25	0.19	20	3000	8¾"	8½"	4"	PB110	6C509
	6"	232	200	152	121	91	0.6	66	2450	11⅜"	8"	5⅞"	PB190	3TJ96
Dual Grille														
Dimmable Halogen Light	4 and 6"	300	260	229	196	160	0.56	70	2680	11⅜"	11⅜"	4 and 6"	PB 270L10-2	45TU12
		300	260	229	196	160	0.56	70	2680	11⅜"	11⅜"	4 and 6"	PB 270L10V-2	45TU14
Without Lights, 1" Flange		303	260	229	196	160	0.68	72	2700	11⅜"	8"	6"	PB270-2	6C510
	6"	418	370	317	268	224	1.02	120	2350	13⅛"	8⅝"	6"	PB370-2	3NYJ1

BROAN

Room-to-Room Fan

- Motor: plug-in, permanently lubricated, 60 Hz
- Polymeric fan blades

Built-in adjustable-speed switch has positive Off position. Adjustable housing installs in various wall thicknesses. Plastic grille is white, paintable. UL Listed.



CFM @ 0.100" SP	Sones HVI	Voltage	Amps	Motor RPM	Housing Dim. (in.) H	L	W	Grille Dim. (in.) L	W	Grille Material	Mfr. Model	Item No.
180	4.5	120	0.9	1575	11½	Adj 3 to 5½	11½	13½	13½	Plastic	511	4C708

hotpod

In-Line Duct Fan Heaters

Heaters—Install in existing ductwork, providing individual room temp. control. Integrated 24V control board interfaces with supplied 24V heating/cooling thermostat, allowing unit to run independently of main heating equipment and to be used as a backup heating system. Cool by enhancing air flow during central air conditioning operation. ETL and C-ETL Listed.

Boots—Easily join heater to ductwork. Flexible, rubberized canvas duct piece reduces noise. 7½"L.



No. 6LHG1



No. 6LHG3

Fits Duct Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.125"	Voltage	Max. Amps	Heater Watts	BtuH Output	L	H	Mfr. Model	Item No.
Heaters											
6"	130	90	40	120	8.33	1000/500	3413 / 1707	10½"	8⅜"	HP6-1000120-2T	6LHG1
8"	210	120	60	120	12.0	1440/720	4915 / 2457	10½"	10⅜"	HP8-1440120-2T	6LHG2
Boots											
Silent Boot™ For 6" Rigid Duct Work										SB-6	6LHG3
Silent Boot™ For 8" Rigid Duct Work										SB-8	6LHG4
Wireless Thermostat											
White, 24VAC, Includes (2) AAA Alkaline Batteries, Remote Transmitter										RFKIT-5	20HN59



No. 4C702



No. 4C705

BROAN

Exterior Wall-Mounted Fans

- Motors: 120V/60 Hz
- Optional controls sold separately

Adjustable housings and paintable grilles. All fans are UL Listed.

Wall Switch-Operated—Models are controlled by a separate switch, timer, or speed control remotely mounted on the wall.

Duct Dia. (in.)	CFM @ 0.000" SP	Sones HVI	Amps	Includes	Housing H (in.)	Housing L (in.)	Housing W (in.)	Grille L (in.)	Grille W (in.)	Grille Material	Mfr. Model	Item No.
Pull Chain-Operated												
8⅜	250	7.0	1.5	Pull Chain Switch	14¼	Adj 4½ to 9½	14¼	11½	11½	Plastic	507	**4C703**
10⅜	470	8.0	1.7	Pull Chain Switch, Weather Hood	14¼	Adj 4½ to 9½	14¼	13½	13½	Plastic	506	**4C702**
Rotary Switch-Operated												
8⅜	180	6.5	1.5	Back Draft Damper, Rotary On-Off Switch, Weather Hood	14¼	Adj 4½ to 9½	14¼	11½	11½	Plastic	509S	**4C705**
Wall Switch-Operated												
8⅜	180	6.5	1.5	Back Draft Damper	14¼	Adj 4½ to 9½	14¼	11½	11½	Plastic	509	**4C706**
10⅜	270	6.0	1.7	Back Draft Damper, Weather Hood	14¼	Adj 4½ to 9½	14¼	13½	13½	Plastic	508	**4C704**
Accessories												
Replacement Motor, For Use with Mfr. No. 507MG and 505											99080176	**1AAC8**
Replacement Motor, 1.5A, 3000 rpm, 120V, For Use with Mfr. No. 509MG											99080180	**1AAC9**
Replacement Motor, For Use with Mfr. No. 502, 504MG, 506, 508, 504MG, 506MG											99080596	**1AAC7**



No. 6C511



No. 4YG73

fantech BROAN

Exterior-Mounted Exhaust Ventilators

- 120V/60 Hz
- Motors: thermally protected
- Permanently lubricated bearings
- Speed-controllable

Remove excess heat and odors via residential kitchen hoods. UL and C-UL Listed.

Fantech—Attach to any side wall or gable end of roof to keep noise away from living/working area. Max. inlet air temp.: 140°F. Paintable baked powder-coated finish on galvanized steel housing.

Broan—Roof or wall mount.

Fits Duct Dia. (in.)	CFM @ Static Pressure Shown 0.100"	0.200"	0.400"	0.600"	Amps	Housing Dim. (in.) H	W	D	Housing Material	Housing Finish	Speed Control*	Includes	Brand	Mfr. Model	Item No.
4	122	113	81	36	0.49	13	10¼	6	—	Powder Coated	—	Grille Can, Mounting Brackets, LED Lamp, Grille Trim	Fantech	PBW 110L10	**45TU17**
4	180	172	154	136	0.84	13	10¼	6	Galvanized Steel	Powder Coated	1DGV1	—	Fantech	RVF4XL	**6C511**
6	220	204	177	150	.84	13	10¼	6	Galvanized Steel	Powder Coated	—	—	Fantech	RVF 6	**15W795**
6	360	346	315	285	1.46	17	14¼	6	Galvanized Steel	Powder Coated	1DGV1	—	Fantech	RVF6XL	**6C513**
8	410	392	348	312	1.42	17	14¼	6	Galvanized Steel	Powder Coated	—	—	Fantech	RVF 8XL	**15W796**
10	600	575	500	435	2.3	28¼	24¾	4¾	Brushed Aluminum	—	4C331 (Ivory) or 6E897 (White)	Flashing Plate and Damper	Broan	331H	**4YG73**
10	900	875	810	750	5.7	28¼	24¾	4¾	Brushed Aluminum	—	4C254 (Ivory) or 6E898 (White)	Flashing Plate and Damper	Broan	332H	**4YG74**
10	1200	1150	1075	975	3.00	29½	22	10	Brushed Aluminum	—	4C254 (Ivory) or 6E898 (White)	Flashing Plate and Damper	Broan	335	**4YG75**

Speed controls sold separately; see pages 2949 and 2955.



No. 5GDU8



No. 5GDV0

TJERNLUND



No. 6KXZ0



No. 6KXZ1

Crawlspace and Basement Fans

Reduce humidity, mold, mildew, odors, and wood rot in crawlspaces and basements, and help reduce radon concentrations by ventilating these areas.

Crawlspace fans mount behind existing passive louvers and pull air from louvers on opposite walls. When using multiple fans, install to maximize cross-flow ventilation. Galvanized metal faceplate can be trimmed if necessary. All models include freeze protection thermostat and are ETL and C-ETL Listed for installation in damp locations.

Basement Fan No. 6KXZ0 installs in cut-out of rim joist or wall. 2 reversible fans provide either air supply, exhaust or balanced air exchange. Includes adjustable dehumidistat, 6-ft. power cord, and all mounting hardware. Use No. 6KXZ1 Duct Take Off Kit to duct air supply/exhaust to other rooms.

DETERMINE QUANTITY OF CRAWLSPACE FANS NEEDED

Calculate cubic area of crawlspace by multiplying L x W x H. Divide by 15 to determine minimum cfm needed to fully ventilate space in 15 min.

Example: 20W x 40L x 3 ft. H crawlspace = 2400 cu. ft.

2400 cu. ft. ÷ 15 min. = 160 cfm of ventilation.

Description	H	W	D	Cutout H	Cutout W	Free Area	Air Flow	Voltage	Amps	Thermostat	Dehumid. Control	Material	Finish	Mfr. Model	Item No.
Crawl Space Fan, Manual Hardwire	6⅞"	14⅜"	2"	6"	8"	12 sq. in.	110 cfm	120	0.3	Opens at 40°F	No	Galvanized Steel	Aluminum	V1	**5GDU8**
Crawl Space Fan, Automatic Plug-In	9"	18"	2"	6"	8"	12 sq. in.	110 cfm	120	0.3	Opens at 40°F	Yes	Galvanized Steel	Aluminum	V1D	**5GDU9**
Crawl Space Fan, Automatic Plug-In	9"	18"	2"	6"	15"	24 sq. in.	220 cfm	120	0.6	Opens at 40°F	Yes	Galvanized Steel	Aluminum	V2D	**5GDV0**
Basement Fan, Reversible	4⅞"	14¼"	22"	5¼"	12¼"	—	180 cfm	120	0.6	No	Yes	Galvanized Steel	Spangle	X2D	**6KXZ0**
Duct Take Off Kit, For Use With Mfr. No. X2D, Includes Zip Ties						—	—	—	—	—	—	Galvanized and Plastic	Gray	DT2-6	**6KXZ1**

BROAN

Speed Controls, Switches, and Timers

All models include matching switch plates and are UL Listed.

Speed Controls—Fit single-gang box. Use only with thermally protected shaded pole or permanent split capacitor motors.

Note: Not for use with impedance protected motors. Nos. 4C254 and 6E898 feature constant voltage lead.

Switches—Use to control fans and lights. Fit single-gang box. No. 5C209 operates fan and light together in On position, and can continue fan operation up to 60 min. after light is turned off. No. 5E830 is for use with SensAire® ventilator No. 5E829.

Timers—60-min. models have continuous On position. Nos. 5C190, 6E902, 5C191, and 6E901 fit single-gang box. Nos. 4C544 and 6E903 fit 2-gang box and are combination mechanical timer/On-Off rocker switches.



No. 6E897



No. 5E830

Switch Color	Plate Color	Type	Max. Amps	Mfr. Model	Item No.
Speed Controls, 120V					
Ivory	Ivory	Rotary, Adjustable	3	57V	**4C331**
White	White	Rotary, Adjustable	3	57W	**6E897**
Ivory	Ivory	Rotary, Adjustable	6	72V	**4C254**
White	White	Rotary, Adjustable	6	72W	**6E898**
Switches, 120V					
Ivory	Ivory	Time Delay	8	64V	**5C209**
White	White	Rocker, 4-Function	20	77DW	**5E830**
White	—	Rocker, 2-Function	—	P2RW	**55NM01**
White	—	Rocker, 3-Function	—	P3RW	**55NM02**

Switch Color	Type	Timing Range	Max. Amps	Mfr. Model	Item No.
Timers, 120/240V					
Ivory	Adjustable	0 to 60 min.	20/10	59V	**5C190**
White	Adjustable	0 to 60 min.	20/10	59W	**6E902**
Ivory	Adjustable	0 to 15 min.	20/10	61V	**5C191**
White	Adjustable	0 to 15 min.	20/10	61W	**6E901**
Ivory	Mechanical, w/ On/Off Switch	0 to 60 min.	20/10	63V	**4C544**
White	Mechanical, w/ On/Off Switch	0 to 60 min.	20/10	63W	**6E903**

BROAN

Ducting Accessories

Designed for 3" and 4" ductwork. Use to vent heat, moisture, and odors from bathrooms, showers, and recreation rooms.

Description	Includes	Mfr. Model	Item No.
Roof Vent Kit, 4" Round	4" Dia. Metal Duct Connector, (2) 4" Clamps, 4 to 3" Reducer, 8 ft. Long x 4" Dia. Flexible Metal Ducting, Mfr. No. 636 Roof Jack for 3 & 4" Ducts	RVK1A	**3WE95**
Wall Vent Kit, 4" Round	4" Clamps, 4 to 3" Foam Reducer, 5 ft. Long x 4" Dia. Flexible Metal Ducting, Square Louvered Wall Vent w/ Rigid Ducting On Back, (2) Nylon Zip Ties	WVK2A	**3WE96**
3 ¼ x 10" to 6" Round Transition Duct		411	**5C200**
3 ¼ x 10" to 7" Round Transition Duct		412H	**4MG71**
4 ½ x 18" ½ to 10" Round Transition Duct		423	**4TP55**
8 x 12" to 12" Round Transition Duct		T81212	**5ZR17**

Roof and Wall Caps

BROAN ★ Dayton

For use on vent terminations.

Roof Caps—Steel caps have black epoxy finish. Aluminum caps feature built-in flashing and long riser, and can be used on flat or slightly pitched roofs. Nos. 4CK03 and 4CK05 have 1¾"H flanges.



No. 4YG76



No. 4C849

Fits Duct Size (in.)	Flange Size (in.)	Construc. Material	Includes	Brand	Mfr. Model	Item No.
Roof Caps						
3 in, 4 in	10¼ x 11	Steel	Built-in Bird Screen w/ Removable Damper	Broan	636	**2C905**
4 Round	9¼ in x 11¾₆₄ in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE70	**45PE70**
6 in	14¼ x 18¾	Steel	Built-in Bird Screen w/ Cushioned Backdraft Damper	Broan	634M	**4YG79**
6 Round	14¼ in x 18¾ in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE69	**45PE69**
8 in	15 x 15	Aluminum	Built-in Bird Screen, Built-in Flashing & Long Riser	Broan	611	**4CK02**
8 in	15⅜ x 15¼	Aluminum	Built-in Bird Screen, Built-in Flashing, Long Riser & 1¾ in Flange	Broan	611CM	**4CK03**
10 in	27¼ x 18½	Steel	Built-in Bird Screen w/ Backdraft Damper	Broan	437	**4YG76**
10 ¼ x 10 ¾	14¼ in x 18¾ in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE68	**45PE68**
12 in	17⅜ x 17½	Aluminum	Built-in Bird Screen, Built-in Flashing, Long Riser & 1¾ in Flange	Broan	612CM	**4CK05**
12 in	20 x 20	Aluminum	Built-in Bird Screen, Built-in Flashing & Long Riser	Broan	612	**4CK04**
Wall Caps						
3 or 4 Round	5²⁵⁄₃₂ in x 5²⁵⁄₃₂ in	Aluminum	Built-In Backdraft Damper	Dayton	45PE71	**45PE71**
3 in, 4 in	6 x 6	Aluminum	Built-in Backdraft Damper	Broan	642	**4C388**
3 ⅜ x 10 ¼	5⁹⁄₁₆ in x 12¾ in	Steel	Bird Screen, Built-In Spring-Loaded Damper	Dayton	45PE72	**45PE72**
6 in	9 x 9	Aluminum	Built-in Backdraft Damper & Bird Screen	Broan	641	**4C849**
6 Round	9 in x 9 in	Aluminum	Bird Screen & Built-In Spring-Loaded Damper	Dayton	45PE74	**45PE74**
7 in	9 x 9	Aluminum	9 x 9 in, Built-in Backdraft Damper, Flange & Bird Screen Shields Cap	Broan	647	**5E835**
8 in	12½ x 13	Aluminum	Built-in Damper	Broan	643	**4YG80**
8 Round	12⁵⁹⁄₆₄ in x 12½ in	Aluminum	Built-In Backdraft Damper	Dayton	45PE73	**45PE73**
10 in	13 x 13	Steel With Aluminum Louvers	Gravity Dampers & Collar w/ Bird Screen	Broan	441	**4YG77**
12 in	15 x 14½	Aluminum	Built-in Backdraft Damper & Bird Screen	Broan	613	**4YG78**



No. 3C591

westaflex

Expandable/Flexible Aluminum Ductwork

▪ Internal/external temp. range up to 500°F

Made of strong, lightweight 0.005" aluminum alloy. Can be installed within walls, wall chases, or ceilings where inaccessibility requires a durable duct. Use in ventilation equipment for air and gas that is free of corrosive fumes or particles. UL Recognized (E60605).

Inside Dia.	L	Compressed Size	Mfr. Model	Item No.
3"	15 ft.	30"	2501	**3C590**
4"			2505	**3C591**
6"			2513	**5C201**
8"			W2521	**3XK02**
3"	30 ft.		W5021	**3XK03**
4"			W5025	**3XK04**
6"			W5033	**3XK05**
8"			W5041	**3XK06**
10"			W5049	**3XK07**
12"			W5057	**3XK08**

Dryer Booster Fans

Use where dryer duct runs exceed 25 ft. equivalent.

Soler and Palau—Feature totally enclosed motor with Class F insulation and backward inclined wheel to overcome extreme pressure in tough installations. No. 6XAR4 has attached pressure switch. No. 6XAR5 has current sensor. Each includes mounting bracket. ETL Listed.

Tjernlund—Handles up to 150 equivalent ft. of duct: straight duct length plus 5 ft. per elbow. Auto-syncs with clothes dryer. 6-ft. grounded plug. Horizontal or vertical duct connection. External motor and lintproof blower. ETL and C-ETL Listed, UL Listed.

Fantech—Features a pressure sensing switch, LED indicator display panel with 50 ft. cable, temp. limit switch, mounting clamps, and 2 cleanouts for easy installation and maintenance.

S&P TJERNLUND fantech



No. 6XAR4



No. 60JD36

CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	1.000"	Voltage	Housing Dia.	Housing Height	Duct Dia.	Inlet Dia.	Watts	Max. Amps	Brand	Mfr. Model	Item No.
153 cfm	130	114	97	84	80	115V AC	9 ½ in	7 ⅝ in	4 in	4 in	84 W	0.7 A	Soler & Palau	PV-100XPS	**6XAR4**
153 cfm	130	114	97	84	80	115V AC	9 ½ in	7 ⅝ in	4 in	4 in	84 W	0.7 A	Soler & Palau	DBF-100XC	**6XAR5**
160 cfm	140	120	114	105	87	120V AC	14 in	10 ½ in	4 in	4 in	50 W	0.53 A	Tjernlund	LB2	**45EA67**
170	150	134	119	103	86	120	9 ¹¹⁄₁₆ in	28 ⁹⁄₁₆ in	4 in	—	83	0.75 A	Fantech	DEDPV-705	**60JD36**

REVCOR REVOLUTIONARY AIR FLOW™ Dayton

A/C Condenser Replacement Propellers


No. 2MTT2


No. 4DLJ3


No. 2RAU2

- Rotation facing discharge
- Embossed aluminum blades and spiders for strength and rigidity
- Hub-type propellers have ½" bore and include set screws (hub on intake side)
- Hubless propellers require interchangeable hex hubs (sold separately, this page)
- For low static pressure applications

For use with A/C condensers, heat pumps, heat exchangers, unit heaters, and power roof ventilators. OEM replacements for the aftermarket. Additional sizes available on Grainger.com®. For replacement condenser fan motors, see pages 44 and 53.

Prop. Dia.(in.)	Pitch (Deg.)	Max. RPM	Min. HP	CFM @ 0.150" SP	CFM @ 0.300" SP	CW ROTATION Item No.	CCW ROTATION Item No.
Revcor Hub-Type Propellers with ½" Bore Dia. (Hub on Intake Side)							
2 Blades							
14	36	1725	¼	—	2022	2MTT2	—
18	29	1140	⅙	—	1565	2MTT7	2MTT8
3 Blades							
18	20	1140	1/6	—	1353	2MTV1	—
18	27	1100	⅛	2204	—	4DLJ2	4DLJ3
20	26	1100	⅕	2946	—	4DLJ7	—
22	20	1140	⅓	—	3551	2MTV6	2MTV7
22	27	1100	⅓	4580	—	4DLK4	—
24	28	1100	¾	6341	—	4DLL5	—
Revcor Hubless Propellers							
3 Blades							
18	29	1140	¼	—	1998	2RAH7	—
18	32	1140	¼	—	2148	2RAH9	2RAJ1
24	24	1140	¾	—	5255	2RAL6	—
4 Blades							
10	33	1725	1/15	—	520	2RAU2	—
14	33	1725	⅓	—	1843	2RAX2	2RAX3
16	33	1725	¾	—	3167	2RAY1	2RAY2
22	23	1140	½	—	3845	2RAZ6	2RAZ7
26	24	1140	1	—	7099	2RCD2	—
26	27	1140	1½	—	7801	2RCD4	—
Dayton Hubless Propellers							
4 Blades							
18	33	1140	¼	—	1834	4C890	4C891
20	29	1140	½	—	2934	4C894	4C895
22	27	1140	½	—	3605	4C898	4C899
24	27	1140	¾	—	5277	4C902	4C903
24	33	1140	1	—	6066	4C904	4C905

Bore Dia. (in.)	No. of Set Screws	For Use With	Includes	Item No.
Dayton Interchangeable Hex Hubs, Alloy Steel				
⅜	1	Replacement Propellers for A/C Condensing Units 4C886 to 4C905	Pretapped Holes with Mounting and Set Screws	2A563
½	2			2A564
⅝	2			2A565

Description	Item No.
Dayton Accessories	
Fan Blade/Wheel Puller, Fan & Wheel; Incl. 4 Jaws, Plastic Centering Sleeve, Hardened Bolt, 4 Locking Bolts, Instructions	2PYL8
Fan Blade Pitch Gauge	2PYL9


No. 5JLL1


No. 2PYP8


No. 2PYT3

Dayton

Evaporator/Condenser Replacement Propellers

- Propellers are individually retail packaged for easy identification and display
- Rotation-facing discharge
- For low static pressure applications

Lightweight construction reduces wear on motor bearing and prolongs motor life. Additional sizes available on Grainger.com®.

Propeller Dia. (in.)	No. of Blades	Bore Dia. (in.)	Recommended Motor HP	CFM @ 3000 rpm	Item No.
Plastic Propellers, 200°F Max. Ambient Temp.					
CW Facing Discharge					
4	5	3/16	1/250	100	5JLL1
5	5	3/16	1/100	150	5JLL7
CCW Facing Discharge					
4	5	3/16	1/250	100	5JLL3

Propeller Dia. (in.)	No. of Blades	Bore Dia. (in.)	Blade Width (in.)	Pitch (Deg.)	CFM @ 0.000" SP	Req. Motor HP	Item No.
Aluminum Hub-Type Propellers For Use with 3000 rpm C-Frame Motors							
CW Facing Discharge							
3	10	3/16	½	24	60	1/250	2PYP8
4½	10	3/16	¾	30	300	1/150	2PYN5
5	10	3/16	⅞	35	400	1/100	2PYN7
Aluminum Hub-Type Propellers For Use with 1550 rpm STD Case Motors							
CW Facing Discharge							
7	5	¼	1 1/16	21	300	1/100	2PYT5
9	5	¼	1⅜	25	500	1/100	2PYT7
10	5	5/16	1⅝	30	600	1/50	2MXY2
12	5	5/16	2⅛	24	1000	1/50	2MXX9
14	5	½	3½	32	1400	1/30	2MXX7
CCW Facing Discharge							
10	5	5/16	1⅝	30	600	1/50	2MXY3
12	5	5/16	2⅛	24	1000	1/50	2MXY1
Aluminum Hubless Propellers For Use with 1550 rpm Threaded Shaft Motors							
CW Facing Discharge							
9	5	Hubless	1⅜	25	500	1/125	2PYT3
CCW Facing Discharge							
8	5	Hubless	1⅝	40	300	1/185	2PYT2


No. 4M079


No. 4YFF9

Shaded Pole C-Frame and Unit Bearing Motors

Dayton

- Max. ambient temp.: 40°C

For additional Shaded Pole C-Frame and Unit Bearing motors go to pages 38 and 39.

C-Frame Motors—For use in small fans and blowers found in bathroom ventilators, range hoods, electric heaters, hair dryers, slide projectors, air cleaners, humidifiers, and refrigeration equipment. UL Recognized and CSA Certified.

Note: This product is NOT SUITABLE for any unattended equipment (including built-in bathroom exhaust fans), unless the listed Thermal Protection is 1 Shot.

Unit Bearing Motors—Use with commercial and industrial HVAC and refrigeration equipment, and other applications.

HP	Motor Enclosure Design	Nameplate RPM	Voltage	Motor Thermal Protection	Motor Mounting Type	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
C-Frame Motors, CWSE									
1/250	Open Air-Over	3000	115	Impedance with One-Shot Backup	Stud	3/16"	1"	1⅝"	4M068
1/250	Open Air-Over	3000	230	Impedance with One-Shot Backup	Stud	3/16"	1"	1⅝"	4M069
1/150	Open Air-Over	3000	115	Impedance with One-Shot Backup	Stud	3/16"	1"	1 11/16"	4M070
1/70	Open Air-Over	3000	115	One-Shot	Stud	3/16"	1"	2"	4M073
1/70	Open Air-Over	3000	120	One-Shot	Stud	3/16"	2"	1⅞"	4M079
Unit Bearing Motors, CWLE									
1/150	Totally Enclosed Air-Over	1550	115	Impedance	Rear/Double Foot	¼"	½"	2⅜"	4YFF7
1/125	Totally Enclosed Air-Over	1550	115	Impedance	Rear/Double Foot	¼"	½"	2⅜"	4YFF9
1/83	Totally Enclosed Air-Over	1550	115	Auto	Rear/Double Foot	¼"	½"	2⅜"	4YFG2
1/83	Totally Enclosed Air-Over	1550	230	Auto	Rear/Double Foot	¼"	½"	2⅜"	4YFG4

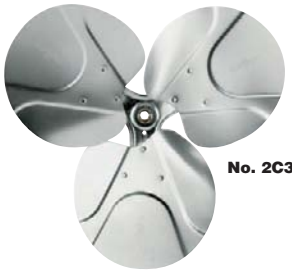
Air Circulator and Exhaust Fan Aluminum Replacement Propellers

Dayton®

- No. of blades: 3
- CW rotation facing discharge
- Embossed aluminum blades and spiders for strength and rigidity
- Hubs include set screws (hub on intake side)
- Suitable for low static pressure applications

Note: Air deliveries based on standard test codes of AMCA. When used in system over 0.250" SP, increase motor HP to next larger size.

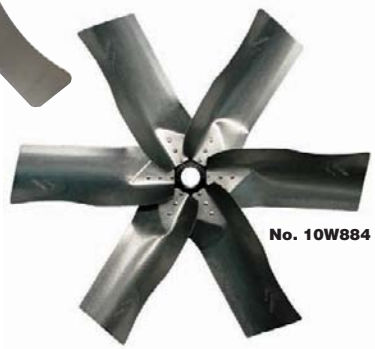
Prop. Dia. (in.)	CFM @ 0.000" SP	RPM High	Required HP @ Higher RPM	RPM Low	Required HP @ Lower RPM	Bore Dia. (in.)	Pitch (Deg.)	Item No.
12	833/584	1550	1/40	1050	1/100	3/16	25	2C354
	928/629	1550	1/25	1050	1/70	3/16	28	2C356
	1087/737	1550	1/20	1050	1/60	1/2	33	2C683
	1458/963	1725	1/8	1140	1/250	1/2	40	4C348
16	2335/1543	1725	1/5	1140	1/17	1/2	26	2C359
	2335/1543	1725	1/5	1140	1/17	5/8	26	4C460
18	3082/2037	1725	1/4	1140	1/12	1/2	23	2C361
	3408/2252	1725	1/3	1140	1/11	5/8	26	2C363


No. 2C354

Prop. Dia. (in.)	CFM @ 0.000" SP	RPM High	Required HP @ Higher RPM	RPM Low	Required HP @ Lower RPM	Bore Dia. (in.)	Pitch (Deg.)	Item No.
20	3220/2128	1725	1/4	1140	1/15	1/2	17	2C365
	3766/2489	1725	1/3	1140	1/10	1/2	20	2C368
	3220/2128	1725	1/4	1140	1/15	5/8	17	4C462
	3766/2489	1725	1/3	1140	1/10	5/8	20	2C367
24	3573/2361	1725	1/4	1140	1/12	1/2	11	2C370
	3908/2736	1500	1/4	1050	1/12	1/2	14	4C231
	5723/3782	1725	1/2	1140	1/6	1/2	18	2C372
	3908/2736	1500	1/4	1050	1/12	5/8	14	4C464
	5723/3782	1725	1/2	1140	1/6	5/8	18	2C373
30	6122/4556	1075	1/2	800	1/4	5/8	20	4C457
	7657	1075	3/4	—		5/8	24	3C380 *

** 3/32 keyway. Hub is full arc welded to spider.*


No. 4GMP2


No. 10W884

REVCOR
REVOLUTIONARY AIR FLOW™

Heavy-Duty Replacement Propellers

- CW rotation facing discharge
- Galvanized steel blades with steel spiders

AGRICULTURE

- Hubs include set screws

Designed for applications that require high air flow at low static pressures.

COMMERCIAL & INDUSTRIAL

For air conditioning, ventilation, air handlers, cooling towers, large unit heaters, and agricultural applications.

Propeller Dia. (in.)	Bore Dia. (in.)	Pitch	HP	RPM	No. of Blades	Hub Location	Item No.
Agriculture							
Belt-Drive							
36	7/8	29°	1/2	600	4	Discharge	4GMP2
	1	27.5°	1/2	600	4	Discharge	4GMP3
	1	32°	1/2	600	6	Discharge	4GMP8
42	3/4	13°	1	600	3	Intake	4GMR2
48	3/4	23°	1	600	2	Intake	4GMP5
	7/8	26.5°	1	600	4	Discharge	4GMR1
	1	26.5°	1	600	4	Discharge	4GMP9

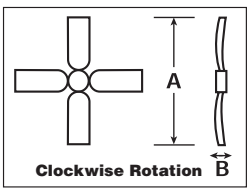
Propeller Dia. (in.)	Pitch (Deg.)	Req. Motor HP	Max. RPM	CFM @ 0.000" SP	No. of Blades	Item No.
Commercial & Industrial						
Requires H Type Taper Lock Bushing						
24	38	2 3/4	1450	11,165	6	10W884
30	22	1	1140	9804	4	10W879
	30	1 3/4	1140	12,996	4	10W880
	38	3 1/4	1140	16,701	6	10W885
36	38	2 3/4	850	18,417	4	10W882
	38	3 1/2	850	21,250	6	10W886
48	38	8 3/4	700	43,400	6	10W887

Cast Aluminum Heavy-Duty Replacement Propellers

Dayton®

Spark resistant and designed to exhaust combustible materials and fumes in agricultural or industrial hazardous locations. CW rotation facing discharge. Statically balanced propellers. 12" and 30" models are 1-piece castings. 16" to 24" models are multipiece construction. 1/2" bore has no keyway. 5/8" and 3/4" bores have 3/16"W x 3/32"D keyway. Max. temp.: 200°F.


No. 3GTE8



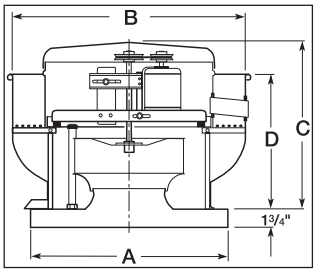
Propeller Dia. (in.)	A (in.)	B (in.)	CFM @ 0.000" SP	Req. Motor HP	Max. RPM	No. of Blades	1/2" BORE Item No.	5/8" BORE Item No.	3/4" BORE Item No.
16	15 1/8	2 5/8	2660	1/4	1725	4	3GTE8	3GTF6	—
18	17 1/8	2 1/16	2840	1/4	1725	4	3GTE9	3GTF7	—
	17 1/8	2 1/16	3410	1/3	1725	4	3GTF1	3GTF8	—
20	19 1/8	2 1/16	3547	1/3	1725	4	3GTF3	3GTF9	—
	19 1/8	2 1/16	4580	1/2	1725	4	3GRE5	3GTG1	—
24	23 1/8	2 5/8	3950	1/3	1725	4	3GTF4	3GTG2	—
	23 1/8	2 5/8	5300	1/2	1725	4	—	—	3GRE8
	23 1/8	2 5/8	6720	3/4	1725	4	—	3GTG4	—
30	30	1 5/8	10230	3/4	1075	3	—	3GRE1	—

Dayton®

Industrial/Commercial Air Circulator Replacement Propellers


No. 2MVX5

Propeller Dia. (in.)	Bore Dia. (in.)	HP	RPM	No. of Blades	For Use With	Item No.
18	1/2	1/12	1500	3	2LY93	2MVX5
20	1/2	—	1100	3	1VCE7, 1VCF2	2ATV7
	5/8	1/4	1725	3	4C458	4HZ10
24	1/2	—	1800	3	1ZCN8, 4VAC7	2ATW1
	1/2	1/4	1075	2	3C685	4HZ11
	1/2	1/4	1075	3	3C215	4HZ05
	5/8	1/2	1725	2	4C021	4HZ06
	5/8	1/3	825	3	1YNW3	23NU03
	5/8	1/4	1725	2	3C218	4HZ04
	43/64	1/4	1100/900	3	2LY97 & 2MA10	2MVX8
30	29/64	1/3	1100	3	2MA12	2MVY2
	15/32	1/4	1100	3	2MA12B	23NU16
	1/2	1/4	1075	2	3C686	4HZ03
	5/8	1/2	1075	2	3C219	4HZ07
	5/8	1/3	800	3	1YNW4	23NU04
	5/8	1/3	800	3	2RDZ2	23NU10
	43/64	1/4	1100/900	3	1RWB4A & 1RWB5A	2MVX9
36	—	1	850	5	1YNW7	23NU07
	1/2	1/2	1100	3	3PEG9, 3PEH2	2ATB5
	5/8	1/2	850	3	1YNW5A	23NU05
42	5/8	1/2	850	3	2RDZ4	23NU12





Centrifugal Belt-Drive Upblast Exhaust Ventilators

- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box
- Max. inlet air temp.: 300°F
- Air handling quality bearings meet min. L10-100,000 hr.
- Bearings—units without drive package: sealed pillow block up to 16½" wheel dia., regreasable pillow block for 18½" wheel dia. and larger
- Bearings—assembled units: sealed pillow block up to 18½" wheel dia., regreasable pillow block for 21¼" wheel dia. and larger
- UL and C-UL 762 Listed Restaurant Exhaust Appliances

Designed for use in restaurants, schools, and commercial and industrial applications to exhaust contaminated air from kitchen range hoods up and away from roof. 1-pc. rolled aluminum wind-band is fully welded to base for virtually leakproof seal between the ventilator and the mounting surface. Internal steel support braces and a fully rolled windband dramatically increase the rigidity of the ventilator.

Motor, drive frame, and wheel are isolated from the mounting base by independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is isolated from the contaminated air stream and is cooled by outside air that is pulled in through an oversized breather tube by the spinning action of the wheel. Motors, sheaves, and belts are packed separately when unassembled ventilator with drive package is ordered.

Note: NFPA 96 requires the use of a ventilated roof curb, grease trap, clean-out port, and hinge kit in restaurant applications; for NFPA 96 accessories, see page 2962.

WARNING: Do not use a damper in any kitchen installation.

High-Pressure—Specifically designed for applications that have high static pressure.

Disconnect Switch Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400
	3	7 ½	1H401
NEMA 4	2	2	1H408
	3	7 ½	1H409

Wheel Dia.	Shaft Dia. Wheel End	Dimensions A	B	C	D	Nonkitchen Dampers†† Size (in.)	Item No.	RECOMMENDED ACCESSORIES Ventilated UL 762 Kitchen Roof Curbs Fixed Item No.	Adj. Item No.	Nonventilated Roof Curbs Fixed 12"H Item No.	Adj. 12"H Item No.	Item No.
Exhaust Ventilators Without Drive Package**												
11"	¾"	19"	24⅞"	25⅛"	17⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**20FT14**
11¼"		19"	24⅞"	25⅛"	17⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**16D522**
		22"	24⅞"	25⅛"	17⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**4YY14**
12½"		19"	24⅞"	25⅛"	17⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**16D523**
13¼"		22"	24⅞"	25⅛"	17⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**4YY15**
14¾"		22"	28⅞"	26⅜"	19⅜"	15 X 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**16D524**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**4YY16**
16½"		22"	28⅞"	26⅜"	19⅜"	15 X 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**16D525**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**4YY17**
18½"		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**4YY18**
21¼"		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**4YY19**
24½"	1"	34"	42¾"	39½"	25½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**4YY20**
30½"		40"	50"	40"	29¼"	27 X 27	4HX68	—	—	24Y860	2ZV84	**16D526**
		42"	50"	40"	29¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**4YY21**
36"	1¼"	46"	58⅜"	44⅝"	29 7/16"	39 x 39	4HX70	4HX60	4HX63	2RB82	2ZV85	**4YY22**
High-Pressure Exhaust Ventilators Without Drive Package**												
14¾"	¾"	26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**2RB66**
16½"		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**1MBF1**
18½"		30"	35⅜"	28⅜"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	3C438	**52CD32**
21¼"	1"	30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**1MBF2**
24½"		34"	42¾"	33⅞"	25½"	27 x 27	4HX68	4HX58	4HX63	2RB80	3C438	**52CD34**
30½"		40"	50"	36"	29"	27 x 27	4HX68	4HX59	4HX63	2RB81	3C438	**52CD35**
Exhaust Ventilators												
11"	¾"	19"	24⅞"	28¼"	17⅜"	12 x 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**20FT09**
11¼"		22"	24⅞"	25⅛"	17⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**1MBE7**
13¼"		22"	24⅞"	25⅛"	17⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**1MBE8**
14¾"		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATT8**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATT9**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU1**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**5PV06**
16½"		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**1MBE9**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU2**
		26"	28⅞"	26⅜"	19⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU3**
18½"		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU4**
		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU5**
		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU6**
		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**5PV07**
21¼"		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU7**
		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU8**
		30"	35⅜"	34¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**5PV08**
24½"	1"	34"	42¾"	39½"	25½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3ATU9**
		34"	42¾"	39½"	25½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3ATV1**
		34"	42¾"	39½"	25½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3GY73**
30½"		42"	50"	40"	29¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**3ATV2**
		42"	50"	40"	29¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**3GY74**

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.		3-Phase Motors 208-230/460V Item No.		COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.	
Exhaust Ventilators																		
11"	833	665	408	—	—	—	⅛	1140	0.07	6.3	**7DF66**		—		—	—	**20FT14**	
	1260	1156	1041	918	759	—	¼	1725	0.25	13.4	**7DF67**		—		**20FT09**	—		
11¼"	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	**7AX02**	‡	—		—	—	**16D522**	‡
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	**7AX03**	‡	—		—	—		
	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	**7A593**		—		—	—	**4YY14**	
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	**7A594**		—		**1MBE7**	—		
12½"	1665	1528	1398	1224	968	—	¼	1410	0.26	12.2	**7AX04**	‡	—		—	—	**16D523**	‡
	1824	1699	1580	1441	1262	—	⅓	1545	0.34	14.0	**7AX05**	‡	—		—	—		
	2037	1923	1816	1710	1571	1176	½	1725	0.48	16.7	**7AX06**	‡	**7AX07**	‡	—	—		
13¼"	1790	1629	1458	1201	—	—	¼	1305	0.26	13.9	**7A615**		—		—	—	**4YY15**	
	1968	1822	1671	1479	1198	—	⅓	1435	0.35	15.1	**7A616**		—		—	—		
	2256	2128	2001	1864	1684	—	½	1645	0.52	17.4	**7A617**		**7A690**		**1MBE8**	—		
14¾"	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	**7AX08**	‡	—		—	—	**16D524**	‡
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	**7AX09**	‡	—		—	—		
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	**7AX10**	‡	**7AX13**	‡	—	—		
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	**7AX11**	‡	**7AX14**	‡	—	—		
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	**7AX12**	‡	**7AX15**	‡	—	—		
	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	**7A618**		—		—	—	**4YY16**	
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	**7A619**		—		—	—		
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	**7A620**		**7A691**		**3ATT8**	—		
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	**7A621**		**7A692**		**5PV06**	—		
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	**7A622**		**7A693**		**3ATT9**	—		
	3125	3005	2865	2711	2539	2085	1	1725	1	22	—		—		—	**3ATU1**		

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. ††Nonkitchen dampers are not for use with any kitchen exhaust applications.*

CONTINUED

CONTINUED

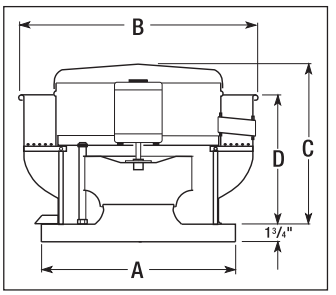
Centrifugal Belt-Drive Upblast Exhaust Ventilators

Dayton

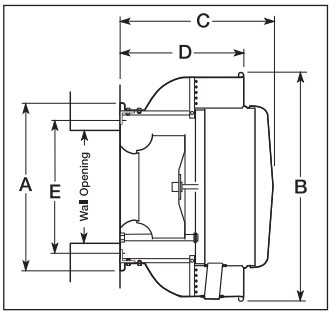
Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
Exhaust Ventilators (Cont.)															
	2515	2177	1744	—	—	—	¼	875	0.26	10.1	7AX16 ‡	—	—	—	16D525 ‡
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	7AX17 ‡	—	—	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	7AX18 ‡	7AX21 ‡	—	—	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	7AX19 ‡	7AX22 ‡	—	—	
16½"	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	7AX20 ‡	7AX23 ‡	—	—	
	2515	2177	1744	—	—	—	¼	875	0.26	10.1	7YR05	—	—	—	4YY17
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	7A623	—	—	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	7A624	7A694	—	—	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	7A625	7A695	3ATU2	—	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	7A626	7A696	1MBE9	3ATU3	
	2815	2448	1763	—	—	—	¼	745	0.26	8.1	7YR06	—	—	—	4YY18
	3098	2759	2257	—	—	—	⅓	820	0.34	10.0	7A627	—	—	—	
	3551	3243	2879	2363	—	—	½	940	0.52	13.1	7A628	7A697	—	—	
18½"	4061	3786	3554	3141	2652	—	¾	1075	0.78	15.8	7A629	7A698	3ATU4	—	
	4477	4224	4005	3703	3336	—	1	1185	1.04	17.1	7A630	7A699	5PV07	—	
	5138	4913	4710	4532	4232	3537	1½	1360	1.58	22	7A631	7A700	3ATU5	3ATU6	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	7A701	—	—	
	3403	2675	—	—	—	—	¼	605	0.26	6.7	7YR07	—	—	—	4YY19
	3740	3096	2073	—	—	—	⅓	665	0.35	8.1	7A632	—	—	—	
	4275	3718	3048	—	—	—	½	760	0.52	10.9	7A633	7A702	—	—	
21¼"	4922	4439	3922	3240	—	—	¾	875	0.79	15.2	7A634	7A703	—	—	
	5400	4958	4508	3985	3169	—	1	960	1.04	17.7	7A635	7A704	3ATU7	—	
	6187	5798	5421	5006	4529	—	1½	1100	1.57	23	7A636	7A705	5PV08	—	
	6806	6451	6108	5748	5350	4289	2	1210	2.10	23	—	7A706	—	3ATU8	
	4216	3188	—	—	—	—	¼	465	0.26	6.3	7YR08	—	—	—	4YY20
	4623	3717	—	—	—	—	⅓	510	0.34	7.3	7A637	—	—	—	
	5303	4540	3565	—	—	—	½	585	0.52	9.5	7A638	7A707	—	—	
24½"	6074	5461	4659	3524	—	—	¾	670	0.79	12.8	7A639	7A708	—	—	
	6663	6133	5409	4618	—	—	1	735	1.04	15.5	7A640	7A709	—	—	
	7660	7184	6615	6002	5282	—	1½	845	1.57	18.6	7A641	7A710	3ATU9	—	
	8431	7985	7536	6953	6375	4324	2	930	2.10	23	—	7A711	—	3GY73	
	9519	9107	8775	8267	7766	6672	3	1050	3.00	31	—	7D491	—	3ATV1	
	6835	5660	—	—	—	—	½	420	0.52	7.5	7AX25 ‡	7AX29 ‡	—	—	16D526 ‡
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	7AX26 ‡	7AX30 ‡	—	—	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	7AX27 ‡	7AX31 ‡	—	—	
	9845	9127	8226	7084	—	—	1½	605	1.55	15.7	7AX28 ‡	7AX32 ‡	—	—	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	7AX33 ‡	—	—	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	7AX34 ‡	—	—	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	7AX35 ‡	—	—	
	5940	4464	—	—	—	—	⅓	365	0.34	5.7	7YR09	—	—	—	4YY21
	6835	5660	—	—	—	—	½	420	0.52	7.5	7A642	7A712	—	—	
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	7A643	7A713	—	—	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	7A644	7A714	—	—	
30½"	9845	9127	8226	7084	—	—	1½	605	1.55	15.7	7A645	7A715	—	—	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	7A716	—	—	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	7A717	—	3GY74	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	7A718	—	3ATV2	
	8631	6755	—	—	—	—	½	320	0.52	6.0	7YR10	—	—	—	4YY22
	10,789	9426	7575	—	—	—	1	400	1.02	11.1	7A647	7A720	—	—	
36"	12,408	11,281	9814	7809	—	—	1½	460	1.55	15.8	7A648	7A721	—	—	
	13,621	12,602	11,359	9878	—	—	2	505	2.06	19.8	—	7A722	—	—	
	15,644	14,769	13,783	12,597	11,287	—	3	580	3.13	23	—	7A723	—	—	
	18,611	17,884	17,115	16,236	15,243	12,985	5	690	5.26	28	—	7A724	—	—	

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.500"	0.750"	1.000"	1.250"	1.500"	1.750"	Motor HP	RPM	Max. BHP†	Sones @ 0.500" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
High-Pressure Exhaust Ventilators													
	1016	920	798	642	—	—	¼	1465	0.26	14.2	7M7U1	—	2RB66
14¾"	1146	1063	965	846	704	—	⅓	1605	0.34	15.2	7M7U2	—	
	1363	1292	1219	1137	1042	924	½	1845	0.52	17.0	7M7U3	7M7U5	
	1592	1536	1473	1409	1341	1262	¾	2110	0.78	19.8	7M7U4	7M7U6	
	2053	1897	1724	1513	—	—	½	1340	0.52	14.4	7YR13	7YR14	1MBF1
16½"	2433	2301	2165	2015	1855	1638	¾	1535	0.74	18.1	7YR15	7YR16	
	2722	2611	2488	2365	2228	2082	1	1690	1.05	21	7YR17	7YR18	
	2104	1688	—	—	—	—	⅓	1725	0.35	10.8	65DG57	—	52CD32
	2581	2323	1933	—	—	—	½	1725	0.53	14.1	65DG58	65DG62	
	3063	2868	2626	—	1854	—	¾	1725	0.78	15.4	65DG59	65DG63	
	3441	3261	3075	—	2523	—	1	1725	1.04	19.0	65DG60	65DG64	
18"	4035	3884	3728	—	3376	—	1½	1725	1.57	24.0	65DG61	65DG65	
	4495	4369	4226	—	3945	—	2	1745	2.08	28.0	—	65DG66	
	3397	3067	2637	–	—	—	¾	1010	0.79	14.5	7YR20	7YR21	1MBF2
	3851	3561	3242	2806	—	—	1	1110	1.04	16.9	7YR22	7YR23	
	4558	4312	4055	3789	3433	2944	1½	1270	1.56	22	7YR24	7YR25	
21¼"	5110	4898	4674	4436	4195	3880	2	1400	2.09	24	—	7YR26	
	5943	5775	5581	5385	5182	4971	3	1600	3.13	29	—	7YR27	
	3105	2405	—	—	—	—	½	1725	0.51	9.7	65DG67	65DG71	52CD34
	3902	3427	2716	—	—	—	¾	1725	0.78	13.4	65DG68	65DG72	
	4459	4075	3578	—	—	—	1	1725	1.05	15.0	65DG69	65DG73	
	5281	4988	4642	—	3674	—	1½	1725	1.57	19.1	65DG70	65DG74	
24"	5920	5678	5390	—	4679	—	2	1725	2.10	23.0	—	65DG75	
	3639	—	—	—	—	—	½	1725	0.52	8.0	65DG86	65DG90	52CD35
	4788	3651	—	—	—	—	¾	1725	0.78	10.5	65DG87	65DG91	
	5549	4731	—	—	—	—	1	1725	1.03	12.6	65DG88	65DG92	
30½"	6741	6149	5390	—	—	—	1½	1725	1.57	16.3	65DG89	65DG93	
	7613	7107	6535	—	4684	—	2	1725	2.09	18.8	—	65DG94	
	9014	8603	8150	—	7062	—	3	1725	3.15	23.0	—	65DG95	
	10,909	10,570	10,222	—	9455	—	5	1725	5.17	36.0	—	65DG96	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. ††Nonkitchen dampers are not for use with any kitchen exhaust applications.*



Roof-Mount



Wall-Mount (Round Mounting Plate Incl.)

Centrifugal Direct-Drive Upblast Exhaust Ventilators

- Aluminum, backward-inclined wheel
- Motor, drive frame, and blower wheel isolated from mounting base
- Motor compartment isolated from contaminated air
- Motor compartment isolated from contaminated air
- NEMA 1 junction box in motor enclosure (Hazardous units have NEMA 7 & 9 disconnect switch)
- UL and C-UL Listed

Note: Additional sizes available on Grainger.com®. Speed controllers available for 115V units only; see page 2955. For kitchen application, check with local code authorities for minimum duct velocities. Do not use dampers in any kitchen application. NFPA 96.

EC Motor—Electronically commutated motor can provide up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed controls allow manual fan speed adjustment from remote location; see page 2955.

3-Speed—Speed controllable on any RPM providing 30% useable turndown. UL 705 Listed for Power Ventilators.

1-Speed—UL 762 Listed Restaurant Exhaust Appliances (YZHW), except hazardous units.

Roof-Mount Item No.	Wheel Dia.	Roof-Mount Dimensions A	B	C	D	RECOMMENDED ROOF CURB Ventilated UL 762 Kitchen Fixed Item No.	Nonventilated 12"H Fixed Item No.
5DVN6*,5DVN8*	8¼"	17¼	18⅜"	13½"	11⅜"	—	2RB75
48C179*	11"	19"	21"	13⅜"	11½"	—	2RB75
5DVP0*,5DVP4*,48C179*	11"	19"	21"	13⅜"	11½"	—	2RB75
5DVP6*	11"	19"	21"	15¼"	13⅜"	—	2RB75
20FT10,20FT11	11"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
52CD36	11"	19"	24⅞"	22"	17⅜"	4HX54	4HX46
4HZ40,4HZ41,5DVR2	11"	22"	24⅞"	22"	17⅜"	4HX55	2RB76
48C180	12½"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
5DVP8	12½"	22"	24⅞"	23¾"	17⅜"	4HX55	2RB76
48C181,36WG76	13¼"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
4HZ44,4HZ45	13¼"	22"	24⅞"	23¾"	17⅜"	4HX55	2RB76
4HZ48,4HZ49,5DVR3,36WG77	14¾"	26"	28⅞"	24¾"	19⅜"	4HX56	2RB77
52CD37	14¾"	26"	28⅞"	24¾"	19⅜"	4HX56	4HX48
4HZ52,4HZ53,5DVR4,6KWH7,36WG78	16½"	26"	28⅞"	27⅛"	19⅜"	4HX56	2RB77
52CD38	16½"	26"	28⅞"	27⅛"	19⅜"	4HX56	4HX48
48C182,36WG79	18½"	30"	35⅜"	28⅝"	21"	4HX57	2RB79
4HZ56,4HZ57,6KWH8	18½"	30"	35⅜"	28⅝"	21"	4HX57	2RB79
5DVR0	21¼"	30"	35⅜"	28⅝"	21"	4HX57	2RB79

Wall-Mount Item No.	Wheel Dia.	Wall-Mount Dimensions A	B	C	D	E
5DVN7*,5DVN9*	8¼"	14¾"	18⅜"	13½"	11⅜"	11¾"
48C184*	11"	17⅛"	21"	13⅜"	11½"	15"
5DVP1*,5DVP5*	11"	17⅛"	21"	13⅜"	11½"	15"
5DVP7*	11"	17⅛"	21"	15¼"	13⅜"	15"
20FT12,20FT13,20UD15	11"	19¾"	24⅞"	22"	17⅜"	16⅛"
52CD39	11"	19¾"	24⅞"	22"	17⅜"	16⅛"
4HZ42,4HZ43,6KWH9,6KWJ3*	11"	19¾"	24⅞"	22"	17⅜"	16⅛"
48C185	12½"	19¾"	24⅞"	28¼"	17⅜"	16⅛"
5DVP9	12½"	19¾"	24⅞"	23¾"	17⅜"	16⅛"
48C186,36WG80	13¼"	19¾"	24⅞"	28¼"	17⅜"	16⅛"
4HZ46,4HZ47	13¼"	19¾"	24⅞"	23¾"	17⅜"	16⅛"
4HZ50,4HZ51,6KWJ0,36WG81	14¾"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
52CD40	14¾"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
4HZ54,4HZ55,6KWJ1,36WG82	16½"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
52CD41	16½"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
48C187,36WG83	18½"	27¾"	35⅜"	28⅝"	21"	25"
4HZ58,4HZ59	18½"	27¾"	35⅜"	28⅝"	21"	25"
5DVR1	21¼"	27¾"	35⅜"	28⅝"	21"	25"

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown** 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Motor HP	Motor RPM	Max. BHP	Sones @ 0.250" SP @ 5 ft.#	ROOF-MOUNT 1-Phase Motor 115V Item No.	WALL-MOUNT 1-Phase Motor 115V Item No.	ROOF-MOUNT 1-Phase Motor 208-230V Item No.	WALL-MOUNT 1-Phase Motor 208-230V Item No.
EC Motor, Variable-Speed, For General Clean Air with Inlet Temps. up to 130°F															
11"	450	324	—	—	—	—	—		860	0.02	—				
	596	505	395	—	—	—	—	⅛	1140	0.04	4.6	48C179	48C184	—	—
	903	842	782	722	652	420	—		1725	0.12	9.4				
EC Motor, Variable-Speed, For Contaminated Air with Inlet Temps. up to 300°F															
	732	625	481	—	—	—	—		860	0.04	0.6				
11"	970	897	806	707	—	—	—	¼	1140	0.09	6.5	5DVR2	6KWH9	—	—
	1468	1422	1373	1315	1255	1129	970		1725	0.29	12.5				
					419	350	—		1300	0.067					
11"	—	—	—	—	688	610	520	½	1900	0.21	—	52CD36	52CD39	—	—
					977	929	878		2500	0.48					
	1015	905	781	581	—	—	—		860	0.06	5.6				
12½"	1346	1261	1180	1091	981	—	—	½	1140	0.14	8.2	48C180	48C185	—	—
	2037	1979	1923	1869	1816	1710	1571		1725	0.48	16.7				
	1180	1057	914	675	—	—	—		860	0.08	7.7				
13¼"	1564	1471	1379	1280	1144	—	—	¾	1140	0.17	11.8	48C181	48C186	36WG76	36WG80
	2366	2305	2244	2183	2122	1994	1838		1725	0.60	18.4				
	1902	1800	1680	1540	1372	—	—		1050	0.22	9.8				
14¾"	2355	2277	2186	2086	1979	1717	1269	¾	1300	0.43	12.8	5DVR3	6KWJ0	36WG77	36WG81
	2808	2743	2671	2594	2509	2329	2110		1550	0.72	17.5				
					833	700	492		1275	0.017					
14¾"	—	—	—	—	1256	1178	1098	¾	1725	0.43	—	52CD37	52CD40	—	—
					1669	1617	1557		2200	0.89					
	1581	1303	—	—	—	—	—		550	0.07	—				
16½"	2472	2315	2126	1918	1680	—	—	¾	860	0.25	9.9	5DVR4	6KWJ1	36WG78	36WG82
	3277	3161	3035	2896	2745	2421	1983		1140	0.58	14.8				
					1487	1252	—		1065	0.26					
16½"	—	—	—	—	2053	1897	1724	1	1340	0.521	—	52CD38	52CD41	—	—
					2787	2680	2560		1725	1.12					
	2815	2617	2448	2143	1763	—	—		745	0.26	8.1				
18½"	3249	3074	2922	2732	2474	—	—	1	860	0.40	11.1	48C182	48C187	36WG79	36WG83
	3778	3625	3486	3362	3190	2738	—		1000	0.63	14.7				

** Not for use with any kitchen exhaust applications. ** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

CONTINUED

CONTINUED

Centrifugal Direct-Drive Upblast Exhaust Ventilators

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown** 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Motor HP	Motor RPM	Max. Operating Amps	Volts 60 Hz	Max. BHP	Speed Control	Sones @ 0.250" SP @ 5 ft.#	ROOF-MOUNT Item No.	WALL-MOUNT Item No.
3-Speed, For General Clean Air with Inlet Air Temps. up to 130°F																
	133	81	—	—	—	—	—		1050			0.01		—		
8¼"	165	126	70	—	—	—	—	1/60	1300	0.68/0.77/1.00	115	0.01	48C172	2.5	5DVN6	5DVN7
	197	164	128	—	—	—	—		1550			0.02		4.0		
	250	171	—	—	—	—	—		1050			0.01		—		
8¼"	309	255	152	—	—	—	—	1/30	1300	1.00/0.77/0.68	115	0.02	48C172	2.4	5DVN8	5DVN9
	369	325	269	160	—	—	—		1550			0.03		4.7		
	325	247	133	—	—	—	—		1050			0.02		4.2		
11"	403	343	272	173	—	—	—	1/20	1300	1.48/1.82/2.44	115	0.03	48C172	5.5	5DVP0	5DVP1
	480	431	376	314	235	—	—		1550			0.05		7.2		
	549	451	306	—	—	—	—		1050			0.03		4.2		
11"	680	600	517	391	—	—	—	1/15	1300	1.48/1.82/2.44	115	0.05	48C172	5.4	5DVP4	5DVP5
	811	744	677	604	501	—	—		1550			0.09		7.5		
	711	570	381	—	—	—	—		1050			0.04		4.5		
11"	880	774	641	484	199	—	—	1/8	1300	1.5/2.0/2.6	115	0.07	48C172	6.4	5DVP6	5DVP7
	1049	964	861	747	616	—	—		1550			0.12		8.5		
1-Speed, 3-Phase, For Contaminated Air with Inlet Temps. up to 300°F																
16½"	3277	3161	3035	2896	2745	2421	1983	¾	1140	2.8-2.8/1.4	208/230/460	0.58	—	14.8	6KWH7	—
18½"	4307	4173	4045	3927	3822	3470	3072	1	1140	3.8-3.5/1.7	208/230/460	0.93	—	16.5	6KWH8	—
21¼"	6412	6224	6036	5855	5674	5283	4837	2	1140	6.2/3.1	208/230/460	1.74	—	23	5DVR0	5DVR1
1-Speed, Hazardous Location, For Contaminated Air with Inlet Temps. up to 300°F																
11"	1468	1422	1373	1315	1255	1129	970	¼	1725	4.0/2.0-2.0	115/208/230	0.29	—	12.5	—	6KWJ3
11"	1260	1209	1156	1100	1041	918	759	¼	1725	4.0/2.0/2.0	115/208/230	0.25	—	13.4	—	20FT15
1-Speed, Single Phase, For Contaminated Air with Inlet Temps. up to 300°F																
11"	833	754	665	565	408	—	—	⅛	1140	2.7	115	0.07	48C172	6.3	20FT10	20FT12
11"	970	897	806	707	—	—	—	⅛	1140	2.7	115	0.09	48C172	6.5	4HZ40	4HZ42
11"	1260	1209	1156	1100	1041	918	759	¼	1725	5.0	115	0.25	48C172	13.4	20FT11	20FT13
11"	1468	1422	1373	1315	1255	1129	970	¼	1725	5.0	115	0.29	48C172	12.5	4HZ41	4HZ43
12½"	2037	1979	1923	1869	1816	1710	1571	½	1725	7.5	115/230	0.48	48C173	16.7	5DVP8	5DVP9
13¼"	1180	1057	914	675	—	—	—	⅛	860	2.7	115	0.07	48C172	7.7	4HZ44	4HZ46
13¼"	2366	2305	2244	2183	2122	1994	1838	¾	1725	10.6/5.3	115/230	0.60	—	18.4	4HZ45	4HZ47
14¾"	1558	1427	1264	1034	—	—	—	⅛	860	2.1	115	0.12	48C172	7.1	4HZ48	4HZ50
14¾"	2065	1973	1864	1745	1605	1167	—	¼	1140	3.2	115	0.29	48C172	11.0	4HZ49	4HZ51
16½"	2472	2315	2126	1918	1680	—	—	¼	860	5.0	115	0.25	48C172	9.9	4HZ52	4HZ54
16½"	3277	3161	3035	2896	2745	2421	1983	¾	1140	8.0/4.0	115/230	0.58	48C173	14.8	4HZ53	4HZ55
18½"	3249	3074	2922	2732	2474	1608	—	½	860	11.6	115/230	0.40	—	11.1	4HZ56	4HZ58
18½"	4307	4173	4045	3927	3822	3470	3072	1	1140	11.4/5.7	115/230	0.93	—	16.5	4HZ57	4HZ59

Not for use with any kitchen exhaust applications. ** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.

Speed Controls For Direct-Drive Fans & Ventilators

Nos. 48C172 and 48C173 can operate multiple direct-drive fans if total amp draw does not exceed control's amp rating. No. 43Y140 includes transformer and hardware. No. 35YV92 allows fan to operate between 2 speeds with SPDT switch or relay.

Type	Max. Amps	Voltage	Plate Color	Item No.
Solid State Speed Controls				
Rotary	6	115	Silver	**48C172**
Rotary	10	115	Silver	**48C173**
EC Motor Speed Controls*				
Remote Dial Assembly	0.5/0.25	115/230	Silver	**43Y140**
Touch Remote with Countdown Timer and LED display	0.5/0.25	115/230	White	**35YV94**
2-Speed	0.5/0.25	115/230	Gray	**35YV92**
Temp./Humidity Monitoring and Automatic Speed Adjustment	0.5/0.25	115/230	Cream	**35YV93**

**** Nos. 43Y140 and 35YV92 to 35YV94 can only be used with Dayton EC motor fans.***



No. 48C172



No. 43Y140


No. 35YV94

Commercial Kitchen Exhaust Hoods

▪ 430 stainless steel construction ▪ Hoods are NSF Standard 2 Certified

Grease Hoods—Type I wall canopy hoods are used above grease-producing appliances such as fryers and griddles. Hoods feature integral 3" airspace for clearance to limited combustible materials. Each includes aluminum baffle grease filters, incandescent light fixtures, ½-pt. grease cup, hanger brackets, and exhaust collars. Rated for 600ºF maximum cooking operation temperature. UL and C-UL 710 Listed.

Condensation Hoods—Type II wall canopy hoods are used above moisture-producing appliances, such as dishwashers. Hoods include condensate baffles, gutter, ½" drain connection, hanger brackets, and exhaust collars.

Heat Hoods—Type II wall canopy hoods are used above heat-producing appliances (without grease) such as ovens. Hoods include hanger brackets and exhaust collars.

L	W	H	Item No.
Grease Hoods			
48"	54"	24"	**20UD05**
60"	54"	24"	**20UD06**
72"	54"	24"	**6KWK8**
96"	54"	24"	**6KWK9**
120"	54"	24"	**6KWL0**
144"	54"	24"	**6KWL1**

L	W	H	Item No.
Condensation Hoods			
48"	48"	24"	**20UD10**
60"	48"	24"	**20UD11**
72"	48"	24"	**20UD12**
Heat Hoods			
48"	48"	24"	**20UD07**
60"	48"	24"	**20UD08**
72"	48"	24"	**20UD09**

Air Supply Plenums—Introduce make up air to space near exhaust hood, minimizing the need to heat or cool make up air. Perforated panels evenly distribute airflow.

End Skirts—Mount on the sides of the exhaust hood to improve hood capture performance.

Digital Temp. Interlocks—Required by International Mechanical Code 507.2.1.1 on Type I grease exhaust hoods. Interlock automatically starts the exhaust fan when cooking occurs. Includes one temp. sensor. UL approved quick-seal for hood penetration and temp. controller.

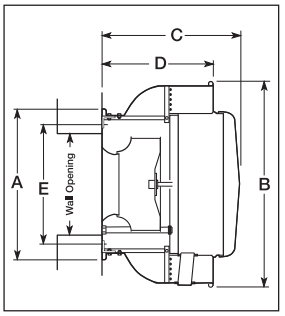
Description	Item No.
Grease Hood Accessories	
Air Supply Plenum, For Use With 20UD05	**20UD13**
Air Supply Plenum, For Use With 20UD06	**20UD14**
Air Supply Plenum, For Use With 6KWK8	**6KWL2**
Air Supply Plenum, For Use With 6KWK9	**6KWL3**
Air Supply Plenum, For Use With 6KWL0	**6KWL4**
Air Supply Plenum, For Use With 6KWL1	**6KWL5**
End Skirts, Left & Right	**6KWL6**
Digital Temp. Interlock, For Use With 6KWK8, 6KWK9, 6KWL0	**48C175**
Digital Temp. Interlock, For Use With 6KWL1	**48C176**
Replacement Digital Temp. Interlock Sensor	**48C177**
Grease Filter, For Use With 6KWK8, 6KWK9, 6KWL1, 20UD05	**35PA91**
Grease Filter, For Use With 6KWK8, 6KWL0, 6KWL1, 20UD06	**35PA92**


No. 6KWK8


No. 48C175

Grease Filters—Collect grease on the interior walls of the filter and then drains into the kitchen hood grease cup. Designed to remove up to 69% of grease particles.

Find more information on Commercial Kitchen Exhaust and Supply Ventilator selection on page 3105.



Centrifugal Belt-Drive Upblast Exhaust Ventilators

Dayton

- Wall mount applications
- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box located in motor enclosure
- Max. inlet air temp.: 300°F
- UL 762 Listed Restaurant Exhaust Appliances

Designed for use in restaurants, schools, commercial, and industrial applications to exhaust contaminated air from kitchen range hoods. 1-pc. rolled aluminum windband fully welded to the base creates a virtually leakproof seal between the ventilator and the mounting surface. Internal steel support braces; round mounting plate included. Motor, drive frame, and blower wheel are isolated from the mounting base by the use of independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is isolated from the contaminated air stream and is cooled by outside air pulled in through an oversized breather tube by the spinning action of the wheel. UL and C-UL Listed.

Round-to-Square Base Adapters—Designed to adapt a standard round fan base to an existing square installation. Allows an existing installation to be used when replacing a ventilator. Constructed of galvanized steel. Flange surface is 1¾".



Wall-Mount
(Round Mounting Plate Incl.)

Item No.	Wheel Dia.	Shaft Dia. Wheel End	Dimensions A	B	C	D	E	Non-Kitchen Damper ‡ Size	Item No.	Round-to-Square Adapter Item No.
20FT16	11"	¾"	19¾"	24⅛"	25⅛"	17⅜"	16⅛"	12 x 12	4HX74	
5DVL6	11¼"	¾"	19¾"	24⅛"	25⅛"	17⅜"	16⅛"	12 x 12	4HX74	6KWJ5
5DVL7	12½"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅛"	12 x 12	4HX74	
5DVL8	13¼"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅛"	12 x 12	4HX74	
5DVL9	14¾"	¾"	22⅛"	28⅛"	26⅜"	19⅜"	19⅜"	15 x 15	4HX77	6KWJ6
5DVN0	16½"	¾"	22⅛"	28⅛"	26⅜"	19⅜"	19⅜"	15 x 15	4HX77	
5DVN1	18½"	¾"	27¾"	35⅜"	34¾"	21"	25"	17 x 17	—	6KWJ7
5DVN2	21¼"	¾"	27¾"	35⅜"	34¾"	21"	25"	17 x 17	—	
5DVN3	22¾"	1"	31¼"	42¾"	39½"	25½"	28⅜"	20 x 20	—	6KWJ8
5DVN4	24½"	1"	31¼"	42¾"	39½"	25½"	28⅜"	20 x 20	—	
5DVN5	30½"	1"	38⅜"	50"	40"	29¼"	35¾"	25 x 25	—	—

‡ Not for use with any kitchen exhaust applications.

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP - Roof Ventilators	RPM	Max. BHP†	Sones @ 0.25" SP @ 5 ft. SP#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase 115/230V Item No.	3-Phase 208-240/440V Item No.	WITHOUT DRIVE PACKAGE** Item No.
11"	833	665	408	—	—	—	⅙	1140	0.07	6.3	7DF68	—	20FT16
	1260	1156	1041	918	759	—	¼	1725	0.25	13.4	7DF69	—	
11¼"	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	7AR95	—	5DVL6
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	7AR96	—	
12½"	1665	1528	1398	1224	968	—	¼	1410	0.26	12.2	7AR97	—	5DVL7
	1824	1699	1580	1441	1262	—	⅓	1545	0.34	14.0	7AR98	—	
	2037	1923	1816	1710	1571	1176	½	1725	0.48	16.7	7AR99	7AT00	
13¼"	1790	1629	1458	1201	—	—	¼	1305	0.26	13.9	7AT01	—	5DVL8
	1968	1822	1671	1479	1198	—	⅓	1435	0.35	15.1	7AT02	—	
	2256	2128	2001	1864	1684	—	½	1645	0.52	17.4	7AT03	7AT04	
14¾"	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	7AT05	—	5DVL9
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	7AT06	—	
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	7AT07	7AT08	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	7AT09	7AT10	
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	7AT11	7AT12	
16½"	2515	2177	1744	—	—	—	¼	875	0.26	10.1	7AT13	—	5DVN0
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	7AT14	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	7AT15	7AT16	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	7AT17	7AT18	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	7AT19	7AT20	
18½"	2815	2448	1763	—	—	—	¼	745	0.26	8.1	7AT21	—	5DVN1
	3098	2759	2257	—	—	—	⅓	820	0.34	10.0	7AT22	—	
	3551	3243	2879	2363	—	—	½	940	0.52	13.1	7AT23	7AT24	
	4061	3786	3554	3141	2652	—	¾	1075	0.78	15.8	7AT25	7AT26	
	4477	4224	4005	3703	3336	—	1	1185	1.04	17.1	7AT27	7AT28	
	5138	4913	4710	4532	4232	3537	1½	1360	1.58	22	7AT29	7AT30	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	7AT31	
21¼"	3403	2675	—	—	—	—	¼	605	0.26	6.7	7AT32	—	5DVN2
	3740	3096	2073	—	—	—	⅓	665	0.35	8.1	7AT33	—	
	4275	3718	3048	—	—	—	½	760	0.52	10.9	7AT34	7AT35	
	4922	4439	3922	3240	—	—	¾	875	0.79	15.2	7AT36	7AT37	
	5400	4958	4508	3985	3169	—	1	960	1.04	17.7	7AT38	7AT39	
	6187	5798	5421	5006	4529	—	1½	1100	1.57	23	7AT40	7AT41	
	6806	6451	6108	5748	5350	4289	2	1210	2.10	23	—	7AT42	
22¾"	3784	2896	—	—	—	—	¼	475	0.26	6.5	7AT43	—	5DVN3
	4142	3357	—	—	—	—	⅓	520	0.34	7.6	7AT44	—	
	4779	4124	3279	—	—	—	½	600	0.52	10.0	7AT45	7AT46	
	5457	4893	4234	3383	—	—	¾	685	0.78	13.4	7AT47	7AT48	
	6014	5502	4944	4258	—	—	1	755	1.04	16.3	7AT49	7AT50	
	6890	6443	5987	5453	4835	—	1½	865	1.57	19.3	7AT51	7AT52	
	7607	7202	6799	6347	5844	4602	2	955	2.11	24	—	7AT53	
24½"	4216	3188	—	—	—	—	¼	465	0.26	6.3	7AT54	—	5DVN4
	4623	3717	—	—	—	—	⅓	510	0.34	7.3	7AT55	—	
	5303	4540	3565	—	—	—	½	585	0.52	9.5	7AT56	7AT57	
	6074	5461	4659	3524	—	—	¾	670	0.79	12.8	7AT58	7AT59	
	6663	6133	5409	4618	—	—	1	735	1.04	15.5	7AT60	7AT61	
	7660	7184	6615	6002	5282	—	1½	845	1.57	18.6	7AT62	7AT63	
	8431	7985	7536	6953	6375	4324	2	930	2.10	23	—	7AT64	
	9519	9107	8775	8267	7766	6672	3	1050	3.00	31	—	7AT65	
30½"	5940	4464	—	—	—	—	⅓	365	0.34	5.7	7AT66	—	5DVN5
	6835	5660	—	—	—	—	½	420	0.52	7.5	7AT67	7AT68	
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	7AT69	7AT70	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	7AT71	7AT72	
	9845	9127	8226	7084	—	—	1½	605	1.55	15.7	7AT73	7AT74	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	7AT75	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	7AT76	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	7AT77	

**** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.***



No. 4YC64

Centrifugal Direct-Drive Downblast Exhaust Ventilators

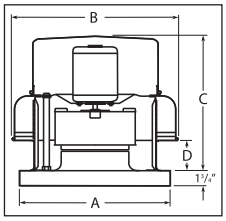
- For general clean air exhaust
- Aluminum backward-inclined, nonoverloading centrifugal wheel design
- Motor compartment isolated from air stream and cooled by outside air
- NEMA 1 junction box
- Max. inlet air temp.: 130°F
- UL-705 Listed for Power Ventilators

EC Motor—Feature electronically commutated (EC) motors for up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed control kits allow manual fan-speed adjustment from a remote location, see page 2955.

3-Speed—Fully controllable on any selected speed. Speed control allows for 30% useable turndown.

1-Speed—Class B insulation and single-speed motors are fully speed controllable at 115V only.

Item No.	Dimensions A	B	C	D	Recommended Damper Size (in.)	Item No.	Recommended Roof Curb Fixed 12" H Item NO.	Adj. 12" H Item No.
16D527, 16D529	17"	19⅜"	12⅛"	3"	9½ x 9½	3TZ50	5EFJ2	2ZV82
16D531, 16D533, 16D534, 48C189	17"	21¾"	14⅝"	4"	9½ x 9½	3TZ50	5EFJ2	2ZV82
5DVR5, 4YC64	19"	19⅜"	12⅛"	3"	—	—	2RB75	2ZV82
5DVR7, 5DVR8	19"	21¾"	14⅝"	4"	—	—	2RB75	4C670
4YC66, 4YC67	19"	21¾"	14⅝"	4"	12 x 12	4HX64	2RB75	2ZV82
16D535, 16D536	19"	24⅜"	23¾"	4⅜"	12 X 12	4HX64	2RB75	2ZV82
52CD42	22"	24⅜"	23¾"	—	—	—	2RB75	4C670
16D537, 16D538, 48C190, 38AX30	19"	28⅜"	23¾"	4"	12 X 12	4HX64	2RB75	2ZV82
5DVR9, 5DVT0, 5DVT2, 6KWK4 to 6KWK6, 4YC68, 4YC69, 5DVT3	22"	24⅜"	23¾"	4⅜"	15 x 15	4HX65	2RB76	2ZV82
4YC71, 5DVT1, 38AX31	22"	28⅜"	23¾"	4"	15 x 15	4HX65	2RB76	2ZV82
52CD43	22"	28⅜"	23¾"	—	—	—	2RB76	4C670
5DVT4, 4YC72, 4YC73	26"	28⅜"	23¾"	4"	19 x 19	4HX66	2RB77	2ZV83
4YC76, 4YC77, 6KWK7, 48C192, 38AX32	30"	35½"	28"	5½"	23 x 23	4HX67	2RB79	2ZV83

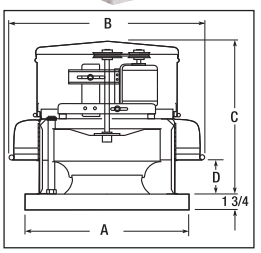


Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Motor HP	RPM	Max. BHP	Sones @ 0.250" SP @ 5 ft.#	Speed Control	LARGER BASE 115V, 1- Phase Item No.	SMALLER BASE 115V, 1- Phase Item No.	208-230V, 1- Phase Item No.
EC Motor, Variable-Speed															
8¼"	426	298	—	—	—	—	—		860	0.01	—				
	565	474	367	—	—	—	—	⅛	1140	0.03	4.6	43Y140	—	48C189	—
	855	794	735	671	600	522	406		1725	0.11	9.4				
11"	729	623	473	—	—	—	—		860	0.04	2.9				
	966	883	805	702	507	—	—	¼	1140	0.09	5.7	43Y140	5DVT2	—	—
	1462	1405	1351	1298	1250	1193	1126		1725	0.31	11.4				
11"	—	—	—	—	342	190	—		1300	0.07					
					697	569	521	½	1725	0.16	—	43Y140	—	52CD42	—
					1008	983	956		2500	0.48					
13¼"	1043	932	796	580	—	—	—		860	0.06	5.2				
	1383	1300	1213	1112	993	831	—	½	1140	0.14	8.4	43Y140	5DVT3	—	—
	2093	2038	1984	1928	1871	1810	1743		1725	0.50	17.0				
13¾"	1221	1106	962	727	—	—	—		860	0.07	6.3				
	1618	1535	1444	1340	1211	1031	—	¾	1140	0.17	9.6	43Y140	—	48C190	38AX30
	2448	2393	2338	2281	2220	2159	2089		1725	0.60	16.7				
13¾"	—	—	—	—	645	323	—		1020	0.08					
					1213	1173	1132	¾	1725	0.39	—	43Y140	—	52CD43	—
					1623	1593	1562		2200	0.82					
14¾"	1948	1833	1719	1590	1418	1164	—		1050	0.24	9.0				
	2412	2318	2228	2135	2033	1919	1777	¾	1300	0.46	12.9	43Y140	5DVT4	—	38AX31
	2875	2797	2719	2644	2566	2487	2396		1550	0.79	17.4				
18½"	2839	2668	2469	2213	1882	—	—		900	0.26	7.2				
	3150	2997	2832	2624	2375	2053	—	1	810	0.35	8.7	43Y140	48C192	—	38AX32
	3500	3364	3219	3052	2858	2624	2347		730	0.48	10.9				

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Motor HP	RPM	Max. BHP	Sones @ 0.250" SP @ 5 ft.#	Max. Operating Amps	Volts 60 Hz	Speed Control	LARGER BASE Item No.	SMALLER BASE Item No.
3-Speed																
8¼"	138	73	—	—	—	—	—		1050	0.01	—	0.68				
	170	125	—	—	—	—	—	1/60	1300	0.01	—	0.77	115	48C172	5DVR5	16D527
	203	166	120	—	—	—	—		1550	0.02	3.7	1				
8¼"	253	179	—	—	—	—	—		1050	0.01	—	0.68				
	314	257	171	—	—	—	—	1/30	1300	0.02	2.6	0.77	115	48C172	4YC64	16D529
	374	327	274	190	—	—	—		1550	0.03	4.7	1				
8¼"	335	249	134	—	—	—	—		1050	0.02	4.2	1.25				
	415	348	272	174	—	—	—	1/20	1300	0.03	5.5	1.57	115	48C172	5DVR7	16D531
	495	439	379	314	237	—	—		1550	0.06	7.2	1.89				
8¼"	520	420	293	—	—	—	—		1050	0.02	4.2	1.48				
	644	565	478	373	—	—	—	1/15	1300	0.05	5.5	1.82	115	48C172	5DVR8	16D533
	768	701	633	557	473	338	—		1550	0.08	7.4	2.44				
10½"	717	570	389	—	—	—	—		1050	0.04	4.5	1.5				
	888	780	640	493	184	—	—	⅛	1300	0.07	6.4	2	115	48C172	4YC67	16D534
	1059	969	863	745	623	474	—		1550	0.12	8.8	2.7				
1-Speed, 1 Phase																
10½"	717	570	389	—	—	—	—	⅛	1050	0.04	4.5	2.6	115	48C172	4YC66	—
11"	431	358	216	—	—	—	—	⅛	860	0.02	3.4	2.1	115	48C172	6KWK4	—
11"	571	517	460	396	283	—	—	⅛	1140	0.06	6.1	2.2	115	48C172	6KWK5	—
11"	864	829	793	756	719	679	640	¼	1725	0.19	12.3	5.0	115	48C172	6KWK6	—
11"	966	883	805	702	507	—	—	⅛	1140	0.09	5.7	2.2	115	48C172	5DVR9	—
11"	1462	1405	1351	1298	1250	1193	1126	¼	1725	0.31	11.7	3.1	115	48C172	5DVT0	16D535
13¼"	1043	932	796	580	—	—	—	⅛	860	0.06	5.2	2.1	115	48C172	4YC68	—
13¼"	2093	2038	1984	1928	1871	1810	1743	⅓	1725	0.50	17.0	6.0	115	48C172	4YC69	16D536
13¾"	1618	1535	1444	1340	1211	1031	—	⅙	1140	0.17	9.6	2.2	115	48C172	5DVT1	16D538
13¾"	2448	2393	2338	2281	2220	2159	2089	½	1725	0.60	16.7	6.0 3.0	115/230	—	4YC71 **	16D537 **
16¾"	1813	1731	1648	1562	1471	1370	1257	⅓	1140	0.29	10.4	4.7	115	48C172	4YC72	—
16¾"	2540	2344	2145	1913	1596	—	—	¼	860	0.26	9.6	5.0	115	48C172	4YC73	—
18½"	3344	3202	3049	2863	2647	2386	2015	⅓	860	0.42	9.8	6.0	115	48C172	4YC76	—
18½"	4433	4329	4216	4102	3980	3837	3684	¾	1140	0.98	16.8	8.0 4.0	115/230	—	4YC77 **	—
1-Speed, 3 Phase																
18½"	4433	4329	4216	4102	3980	3837	3684	¾	1140	0.98	16.8	3.75-3.45 1.7	208/230/460	—	6KWK7	—

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings include the effects of a bird screen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. ** 115/230V, speed controllable at 115V only.*





Centrifugal Belt-Drive Downblast Exhaust Ventilators

Dayton

- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box located in motor enclosure
- Max. inlet air temp.: 180°F
- UL-705 Listed for Power Ventilators
- Air handling quality bearings meet min. L10-100,000 hr.
- Bearings—units less motor and drive: sealed pillow block up to 16¾" wheel dia., regreasable pillow block for 18½" wheel dia. and larger
- Bearings—assembled units: sealed pillow block up to 18½" wheel dia., regreasable pillow block for 21½" wheel dia. and larger

Designed to meet the general clean air exhaust requirements for industrial and commercial buildings. Rugged and reliable construction makes fan capable of withstanding severe exhaust conditions. Spun aluminum construction features a fully rolled windband bead for increased stability and easy transport. Fresh outside air is drawn in under the motor cover to maximize motor life. Drive frame is internally isolated from the rest of the unit through use of neoprene isolators for long life and quiet operation; no steel-to-steel contact. Motors, sheaves, and belts are packed separately when complete, unassembled ventilator with drive package is ordered. UL and C-UL Listed.

Disconnect Type	No. of Poles	Max. HP	Item No.	Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400	NEMA 4	2	2	1H408
	3	7½	1H401		3	7½	1H409

Wheel Dia.	Shaft Dia. Wheel End	Dim. A	B	C	D	Recommended Damper Size (in.)	Recommended Damper Item No.	Recommended Roof Curb Fixed 12"H Item No.	Recommended Roof Curb Adj. 12"H Item No.	Item No.
Centrifugal Belt-Drive Downblast Exhaust Ventilators (Without Drive Package)**										
11"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**4YU92**
11"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**16D539** ‡
11"	¾"	22"	24⅜"	24⅛"	4⅜"	15 x 15	4HX65	2RB76	2ZV82	**4YU93**
13¼"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**16D540** ‡
13¼"	¾"	22"	24⅜"	24⅛"	4⅜"	15 x 15	4HX65	2RB76	2ZV82	**4YU94**
13¾"	¾"	19"	28⅜"	25⅜"	4"	12 x 12	4HX64	2RB75	2ZV82	**16D541** ‡
13¾"	¾"	22"	28⅜"	25⅜"	4"	15 x 15	4HX65	2RB76	2ZV82	**5EFH7**
14¾"	¾"	22"	28⅜"	25⅜"	4"	15 x 15	4HX65	2RB76	2ZV82	**16D542** ‡
14¾"	¾"	26"	28⅜"	25⅜"	4"	19 x 19	4HX66	2RB77	2ZV83	**4YU95**
16¾"	¾"	22"	28⅜"	27¼"	4"	15 x 15	4HX65	2RB76	2ZV82	**16D543** ‡
16¾"	¾"	26"	28⅜"	27¼"	4"	19 x 19	4HX66	2RB77	2ZV83	**4YU96**
18½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**4YU97**
21½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**4YU98**
24½"	1"	34"	42¾"	38⅜"	5¾"	27 x 27	4HX68	2RB80	2ZV84	**5EFH8**
24½"	1"	34"	42¾"	38⅜"	5¾"	27 x 27	4HX68	2RB80	2ZV84	**4YU99**
26½"	1"	42"	50"	36"	8¼"	35 x 35	4HX69	2RB81	2ZV85	**5EFH9**
30½"	1"	40"	50"	36"	8¼"	27 x 27	4HX68	24Y860	2ZV84	**16D544** ‡
30½"	1"	42"	50"	36"	8¼"	35 x 35	4HX69	2RB81	2ZV85	**4YY10**
33½"	1¼"	46"	58¾"	38½"	8⅞"	39 x 39	4HX70	2RB82	2ZV85	**5EFJ0**
36"	1¼"	46"	58¾"	38½"	8⅞"	39 x 39	4HX70	2RB82	2ZV85	**4YY11**
42"	1¼"	52"	65¼"	44"	9¾"	39 x 39	4HX70	5EFJ3	2ZV86	**5EFJ1**
50"	1¼"	64"	83"	50¾"	14½"	50 x 50	4HX71	2RB83	2ZV87	**4YY12**
Centrifugal Belt-Drive Downblast Exhaust Ventilators (With Drive Package)**										
11"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**2RB59**
11"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**2RB60**
11"	¾"	19"	24⅜"	24⅛"	4⅜"	12 x 12	4HX64	2RB75	2ZV82	**2RB61**
11"	¾"	22"	24⅜"	24⅛"	4⅜"	15 x 15	4HX65	2RB76	2ZV82	**2RB62**
13¼"	¾"	22"	24⅜"	24⅛"	4⅜"	15 x 15	4HX65	2RB76	2ZV82	**2RB63**
14¾"	¾"	26"	28⅜"	25⅜"	4"	19 x 19	4HX66	2RB77	2ZV83	**2RB64**
14¾"	¾"	26"	28⅜"	25⅜"	4"	19 x 19	4HX66	2RB77	2ZV83	**3HFL6**
16¾"	¾"	26"	28⅜"	27¼"	4"	19 x 19	4HX66	2RB77	2ZV83	**3HFL7**
18½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**3GY66**
18½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**3GY70**
21½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**3GY67**
21½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83	**3GY71**
24½"	1"	34"	42¾"	38⅜"	5¾"	27 x 27	4HX68	2RB80	2ZV84	**3GY68**
30½"	1"	42"	50"	36"	8¼"	35 x 35	4HX69	2RB81	2ZV85	**3GY69**
30½"	1"	42"	50"	36"	8¼"	35 x 35	4HX69	2RB81	2ZV85	**3HFL8**
36"	1¼"	46"	58¾"	38½"	8⅞"	39 x 39	4HX70	2RB82	2ZV85	**3HFL9**

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.250"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
11"	373	335	292	246	198	—	¼	1710	0.13	11.0	—	—	**2RB59**	—	—
	856	785	710	630	511	—	¼	1710	0.19	12.1	—	—	**2RB60**	—	—
	1062	920	767	567	—	—	1/6	1401	0.14	10.0	**7A547**	—	—	—	**4YU92**
	1296	1180	1062	934	785	—	¼	1710	0.25	13.2	**7A548**	—	**2RB61**	—	
	1386	1269	1162	1020	793	—	¼	1635	0.25	10.4	**7AX36** ‡	—	—	—	**16D539** ‡
	1526	1419	1321	1209	1065	793	⅓	1800	0.33	12.5	**7AX37** ‡	—	—	—	
	1386	1269	1162	1020	793	—	¼	1635	0.25	10.4	**7A549**	—	—	—	**4YU93**
	1526	1419	1321	1209	1065	793	⅓	1800	0.33	12.5	**7A550**	—	**2RB62**	—	
13¼"	1692	1557	1404	1214	907	—	¼	1395	0.26	12.3	**7AX38** ‡	—	—	—	**16D540** ‡
	1880	1759	1629	1475	1289	974	⅓	1550	0.36	14.3	**7AX39** ‡	—	—	—	
	2093	1984	1871	1743	1600	1426	½	1725	0.50	17.0	**7AX40** ‡	**7AX41** ‡	—	—	
	1692	1557	1404	1214	907	—	¼	1395	0.26	12.3	**7A551**	—	—	—	**4YU94**
	1880	1759	1629	1475	1289	974	⅓	1550	0.36	14.3	**7A552**	—	—	—	
	2093	1984	1871	1743	1600	1426	½	1725	0.50	17.0	**7A553**	**7A649**	**2RB63**	—	
13¾"	1866	1718	1545	1305	—	—	¼	1315	0.26	12.5	**7AX42** ‡	—	—	—	**16D541** ‡
	2044	1911	1759	1571	1299	—	⅓	1440	0.35	15.1	**7AX43** ‡	—	—	—	
	2391	2279	2158	2020	1857	1654	½	1685	0.56	16.3	**7AX44** ‡	**7AX45** ‡	—	—	
	1866	1718	1545	1305	—	—	¼	1315	0.26	12.8	**7AU65**	—	—	—	**5EFH7**
	2044	1911	1759	1571	1299	—	⅓	1440	0.35	15.1	**7AU66**	—	—	—	
	2391	2279	2158	2020	1857	1654	½	1685	0.56	16.3	**7AU67**	**7AU68**	—	—	
14¾"	1994	1771	1490	—	—	—	¼	1075	0.26	9.4	**7AX46** ‡	—	—	—	**16D542** ‡
	2170	1966	1734	1356	—	—	⅓	1170	0.34	10.8	**7AX47** ‡	—	—	—	
	2523	2347	2166	1943	1602	—	½	1360	0.53	13.9	**7AX48** ‡	**7AX51** ‡	—	—	
	2866	2710	2556	2384	2177	1890	¾	1545	0.78	17.4	**7AX49** ‡	**7AX52** ‡	—	—	
	3163	3020	2883	2739	2574	2370	1	1705	1.05	20	**7AX50** ‡	**7AX53** ‡	—	—	
	1994	1771	1490	—	—	—	¼	1075	0.26	9.4	**7A554**	—	**3HFL6**	—	**4YU95**
	2170	1966	1734	1356	—	—	⅓	1170	0.34	10.8	**7A555**	—	—	—	
	2523	2347	2166	1943	1602	—	½	1360	0.53	13.9	**7A556**	**7A650**	**2RB64**	—	
	2866	2710	2556	2384	2177	1890	¾	1545	0.78	17.4	**7A557**	**7A651**	—	—	
	3163	3020	2883	2739	2574	2370	1	1705	1.05	20	**7A558**	**7A652**	—	—	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. †† 115/230V.*

CONTINUED

CONTINUED

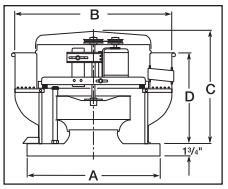
Dayton®

Centrifugal Belt-Drive Downblast Exhaust Ventilators

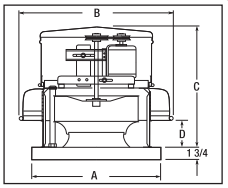
Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.250"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.		3-Phase Motors 208-230/460V Item No.		COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** Single-Phase Motors 115/208-230V Item No.	3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.	
	2555	2162	1624	—	—	—	¼	865	0.26	9.7	7AX54	‡	—		—	—		
	2791	2434	2010	—	—	—	⅓	945	0.34	11.5	7AX55	‡	—		—	—		
	3249	2943	2615	2198	—	—	½	1100	0.53	14.1	7AX56	‡	7AX59	‡	—	—	16D543	‡
	3692	3422	3149	2838	2444	—	¾	1250	0.79	17.0	7AX57	‡	7AX60	‡	—	—		
16¾"	4062	3815	3571	3304	3007	2609	1	1375	1.05	19.6	7AX58	‡	7AX61	‡	—	—		
	2555	2162	1624	—	—	—	¼	865	0.26	9.7	7YR28		—		—	—		
	2791	2434	2010	—	—	—	⅓	945	0.34	11.5	7A559		—		—	—		
	3249	2943	2615	2198	—	—	½	1100	0.53	14.1	7A560		7A653		3HFL7	—	4YU96	
	3692	3422	3149	2838	2444	—	¾	1250	0.79	17.0	7A561		7A654		—	—		
	4062	3815	3571	3304	3007	2609	1	1375	1.05	19.6	7A562		7A655		—	—		
	2839	2469	1882	—	—	—	¼	730	0.26	7.2	7YR29		—		—	—		
	3150	2832	2375	—	—	—	⅓	810	0.35	8.7	7A563		—		—	—		
	3655	3388	3052	2601	—	—	½	940	0.54	12.0	7A564		7A656		—	—		
18½"	4102	3867	3596	3252	2811	—	¾	1055	0.77	14.9	7A565	††	7A657		—	—	4YU97	
	4608	4401	4179	3900	3575	3178	1	1185	1.10	17.8	7A566		7A658		3GY70	3GY66		
	5191	5010	4814	4599	4344	4052	1½	1335	1.57	21	7A567	††	7A659		—	—		
	5677	5514	5336	5155	4938	4699	2	1460	2.05	24	—		7A660		—	—		
	3320	2637	—	—	—	—	¼	600	0.26	7.3	7YR30		—		—	—		
	3680	3085	2087	—	—	—	⅓	665	0.35	8.5	7A568		—		—	—		
	4261	3744	3141	—	—	—	½	770	0.55	10.7	7A569		7A661		—	—		
21½"	4759	4289	3811	3085	—	—	¾	860	0.77	12.9	7A570	††	7A662		—	—	4YU98	
	5340	4927	4520	4015	3240	—	1	965	1.09	15.4	7A571		7A663		—	—		
	6032	5682	5301	4925	4450	3751	1½	1090	1.56	18.9	7A572	††	7A664		3GY71	3GY67		
	6640	6336	5969	5651	5274	4829	2	1200	2.09	23	—		7A665		—	—		
	3799	3132	—	—	—	—	¼	500	0.26	7.9	7AU69		—		—	—		
	4179	3629	2526	—	—	—	⅓	550	0.35	8.9	7AU70		—		—	—		
	4863	4403	3702	—	—	—	½	640	0.55	12.1	7AU71		7AU72		—	—		
	5395	4990	4459	3633	—	—	¾	710	0.75	14.4	7AU73		7AU74		—	—	5EFH8	
	6079	5732	5326	4716	3929	—	1	800	1.07	16.1	7AU75		7AU76		—	—		
	6801	6501	6142	5723	5122	4401	1½	895	1.50	18.8	7AU77	††	7AU78		—	—		
	7485	7212	6898	6568	6107	5548	2	985	2.00	23	—		7AU79		—	—		
24½"	4223	3188	—	—	—	—	¼	460	0.26	5.7	7YR31		—		—	—		
	4637	3761	—	—	—	—	⅓	505	0.35	6.9	7A573		—		—	—		
	5371	4666	3562	—	—	—	½	585	0.55	9.1	7A574		7A666		—	—		
	6060	5449	4636	3217	—	—	¾	660	0.79	11.8	7A575	††	7A667		—	—		
	6702	6158	5507	4568	—	—	1	730	1.06	14.3	7A576		7A668		—	—	4YU99	
	7575	7092	6574	5901	5002	—	1½	825	1.54	17.7	7A577	††	7A669		—	—		
	8355	7916	7467	6933	6240	5388	2	910	2.06	21	—		7A670		—	3GY68		
	8355	7916	7467	6933	6240	5388	3	910	2.06	21	—		7D492		—	—		
	6005	5063	3745	—	—	—	½	465	0.54	10.4	7AU80		7AU81		—	—		
	6716	5898	4869	3008	—	—	¾	520	0.75	11.3	7AU82		7AU83		—	—		
	7491	6775	5912	4826	—	—	1	580	1.04	13.0	7AU84		7AU85		—	—		
26½"	8588	7979	7274	6474	5465	3608	1½	665	1.57	15.8	7AU86	††	7AU87		—	—	5EFH9	
	9493	8938	8335	7649	6878	5916	2	735	2.13	18.3	—		7AU88		—	—		
	10,874	10,292	9794	9225	8606	7932	3	835	3.12	22	—		7AU89		—	—		
	5912	4340	—	—	—	—	⅓	365	0.35	5.7	7AX62	‡	—		—	—		
	6803	5537	—	—	—	—	½	420	0.53	7.0	7AX63	‡	7AX67	‡	—	—		
	7694	6616	5095	—	—	—	¾	475	0.77	9.6	7AX64	‡††	7AX68	‡	—	—		
	8585	7640	6456	4195	—	—	1	530	1.07	12.2	7AX65	‡	7AX69	‡	—	—		
	9719	8907	7952	6721	—	—	1½	600	1.55	14.9	7AX66	‡††	7AX70	‡	—	—	16D544	‡
	10,772	10,060	9228	8269	7025	—	2	665	2.11	17.7	—		7AX71	‡	—	—		
	12,311	11,704	10,997	10,242	9369	8293	3	760	3.15	21	—		7AX72	‡	—	—		
30½"	14,416	13,898	13,335	12,716	12,073	11,379	5	890	5.09	28	—		7AX73	‡	—	—		
	5912	4340	—	—	—	—	⅓	365	0.35	5.7	7YR32		—		—	—		
	6803	5537	—	—	—	—	½	420	0.53	7.0	7A578		7A671		—	—		
	7694	6616	5095	—	—	—	¾	475	0.77	9.6	7A579	††	7A672		—	—		
	8585	7640	6456	4195	—	—	1	530	1.07	12.2	7A580		7A673		—	—	4YY10	
	9719	8907	7952	6721	—	—	1½	600	1.55	14.9	7A581	††	7A674		3HFL8	—		
	10,772	10,060	9228	8269	7025	—	2	665	2.11	17.7	—		7A675		—	—		
	12,311	11,704	10,997	10,242	9369	8293	3	760	3.15	21	—		7A676		—	3GY69		
	14,416	13,898	13,335	12,716	12,073	11,379	5	890	5.09	28	—		7A677		—	—		
	10,024	8713	7050	—	—	—	1	415	1.07	11.3	7AU90		7AU91		—	—		
	11,232	10,087	8706	6966	—	—	1½	465	1.51	14.0	7AU92	††	7AU93		—	—		
33½"	12,319	11,294	10,085	8696	6472	—	2	510	2.00	16.6	—		7AU94		—	—	5EFJ0	
	14,251	13,376	12,408	11,307	10,081	8536	3	590	3.09	21	—		7AU95		—	—		
	16,908	16,185	15,408	14,564	13,624	12,640	5	700	5.17	27	—		7AU96		—	—		
	8693	6756	—	—	—	—	½	325	0.56	6.8	7YR33		—		—	—		
	9763	8109	—	—	—	—	¾	365	0.79	8.9	7A582	††	7A678		—	—		
	10,966	9558	7641	—	—	—	1	410	1.12	11.9	7A583		7A679		—	—		
36"	12,304	11,085	9568	7096	—	—	1½	460	1.59	14.8	7A584	††	7A680		—	—	4YY11	
	13,507	12,431	11,096	9473	—	—	2	505	2.09	17.3	—		7A681		—	—		
	15,513	14,614	13,523	12,289	10,813	—	3	580	3.18	22	—		7A682		—	—		
	18,322	17,560	16,711	15,774	14,710	13,535	5	685	5.23	29	—		7A683		—	3HFL9		
	17,925	16,540	14,790	12,502	—	—	3	435	3.00	17.8	—		7AU97		—	—		
42"	21,222	20,081	18,826	17,162	15,254	12,312	5	515	4.98	23	—		7AU98		—	—	5EFJ1	
	24,725	23,765	22,709	21,621	20,104	18,585	7½	600	7.87	30	—		7AU99		—	—		
	17,245	12,242	—	—	—	—	1	214	1.04	8.7	7A585		7A684		—	—		
	19,743	15,481	—	—	—	—	1½	245	1.54	11	7A586	††	7A685		—	—		
	21,677	17,857	—	—	—	—	2	269	2.08	13.2	—		7A686		—	—		
50"	24,820	21,627	17,903	—	—	—	3	308	2.96	16.9	—		7A687		—	—	4YY12	
	29,494	26,834	23,831	20,688	—	—	5	366	4.99	21	—		7A688		—	—		
	33,764	31,467	29,015	26,276	23,486	—	7½	419	7.78	27	—		7A689		—	—		
	37,068	34,991	32,805	30,342	27,917	25,310	10	460	10.26	32	—		7YR34		—	—		

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. †† 115/230V.*









Hazardous Location Centrifugal Belt-Drive Exhaust Ventilators

- Aluminum, backward inclined, nonoverloading centrifugal wheel design
- Air handling-quality bearings meet min. L10-100,000 hr.

Designed to exhaust air in commercial and industrial applications with potentially hazardous particles or fumes. Constructed with spark-resistant aluminum wheel and rub ring. Spun aluminum housing features rolled wind band to increase stability. Motor, drive frame, and wheel are isolated from the mounting base by independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is cooled by fresh outside air, maximizing motor life. Motors, sheaves, belts, and conduit kit are packed separately when unassembled ventilator with drive package is ordered.

Warning: Nonhazardous location ventilators are not interchangeable with hazardous location ventilators.

Note: Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and National Fire Protection Act (NFPA).

UPBLAST VENTILATORS

- Motor only UL Listed for Class I Groups C & D and Class II Groups E, F & G hazardous locations
- Max. inlet air temp.: 300°F
- Bearings: sealed pillow block up to 16½" wheel dia.; regreasable pillow block for 18½" wheel dia. and larger

DOWNBLAST VENTILATORS

- Motor only UL Listed for Class I Groups C & D and Class II Groups E, F & G hazardous locations
- Max. inlet air temp.: 180°F
- Bearings—sealed pillow block up to 16¾" wheel dia.; regreasable pillow block for 18½" wheel dia. and larger

Item No.	Wheel Dia.	Shaft Dia.	Dimensions A	B	C	D	RECOMMENDED ACCESSORIES Damper Size (In.)	Damper Item No.	Roof Curbs Fixed 12"H Item No.	Roof Curbs Adj. 12"H Item No.
Hazardous Upblast Exhaust Ventilators										
6KWJ9	11¼"	¾"	22"	24⅛"	25⅛"	17⅜"	15 x 15	4HX65	2RB76	—
33X834	13¼"	¾"	22"	24⅛"	29⅛"	17⅜"	15 x 15	4HX65	2RB76	—
33X835	14¾"	¾"	26"	28⅛"	30⅛"	19⅜"	19 x 19	4HX66	2RB77	—
33X836	16½"	¾"	26"	28⅛"	30⅛"	19⅜"	19 x 19	4HX66	2RB77	—
6KWK3	18½"	¾"	30"	35⅜"	34¾"	21"	23 x 23	4HX67	2RB79	—
Hazardous Downblast Exhaust Ventilators										
4YU92	11"	¾"	19"	24⅜"	24⅞"	4⅜"	12 x 12	4HX64	2RB75	2ZV82
4YU93	11"	¾"	22"	24⅜"	24⅞"	4⅜"	15 x 15	4HX65	2RB76	2ZV82
4YU94	13¼"	¾"	22"	24⅜"	24⅞"	4⅜"	15 x 15	4HX65	2RB76	2ZV82
4YU95	14¾"	¾"	26"	28¾"	25¾"	4"	19 x 19	4HX66	2RB77	2ZV83
4YU96	16¾"	¾"	26"	28¾"	27¼"	4"	19 x 19	4HX66	2RB77	2ZV83
4YU97	18½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83
4YU98	21½"	¾"	30"	35½"	34⅜"	5½"	23 x 23	4HX67	2RB79	2ZV83
4YU99	24½"	1"	34"	42¾"	38⅜"	5¾"	27 x 27	4HX68	2RB80	2ZV84
4YY10	30½"	1"	42"	50"	36"	8¼"	35 x 35	4HX69	2RB81	2ZV84

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE UNASSEMBLED** Single-Phase Motors 115/208-230V, 60 Hz Item No.	3-Phase Motors 208-230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Hazardous Upblast Exhaust Ventilators													
11¼"	1413	1313	1189	1056	861	–	¼	1660	0.26	12.0	7HY41	—	6KWJ9
	1549	1459	1350	1234	1106	–	⅓	1820	0.35	13.4	—	7HY42	
13¼"	1790	1629	1458	1201	–	–	¼	1305	0.26	13.9	7HY43	—	33X834
	1968	1822	1671	1479	1198	–	⅓	1435	0.35	15.1	—	7HY44	
	2256	2128	2001	1864	1684	–	½	1645	0.52	17.4	—	7HY46	
14¾"	2001	1793	1515	998	–	–	¼	1105	0.26	10.6	7HY47	—	33X835
	2192	2006	1773	1443	–	–	⅓	1210	0.34	11.7	7HY48	7HY49	
	2518	2362	2174	1949	1643	–	½	1390	0.52	14.2	7HY50	7HY51	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	—	7HY52	
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	—	7HY53	
16½"	2515	2177	1744	–	–	–	¼	875	0.26	10.1	7HY54	—	33X836
	2774	2477	2109	1584	–	–	⅓	965	0.35	11.5	7HY55	7HY56	
	3191	2941	2641	2297	1770	–	½	1110	0.54	14.2	7HY57	7HY58	
	3636	3426	3172	2894	2583	–	¾	1265	0.79	17.7	—	7HY59	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	—	7HY60	
18½"	2815	2448	1763	–	–	–	¼	745	0.26	8.1	7HY61	—	6KWK3
	3098	2759	2257	–	–	–	⅓	820	0.34	10.0	7HY62	7HY63	
	3551	3243	2879	2363	–	–	½	940	0.52	13.1	7HY64	7HY65	
	4061	3786	3554	3141	2652	–	¾	1075	0.78	15.8	7HY66	7HY67	
	4477	4224	4005	3703	3336	–	1	1185	1.04	17.1	7HY68	7HY69	
	5138	4913	4710	4532	4232	3537	1½	1360	1.58	22	—	7HY71	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	7HY72	
Hazardous Downblast Exhaust Ventilators													
11"	1296	1180	1062	934	785	–	¼	1710	0.25	13.2	7AE89	—	4YU92
	1386	1269	1162	1020	793	–	¼	1635	0.25	10.4	7AE90	—	4YU93
	1526	1419	1321	1209	1065	–	⅓	1800	0.33	12.5	—	7AF08	
13¼"	1692	1557	1404	1214	907	–	¼	1395	0.26	12.3	7AE91	—	4YU94
	1880	1759	1629	1475	1289	–	⅓	1550	0.35	14.3	—	7AF09	
14¾"	1994	1771	1490	–	–	–	¼	1075	0.26	9.4	7AE92	—	4YU95
	2170	1966	1734	1356	–	–	⅓	1170	0.34	10.8	—	7AF10	
16¾"	2555	2162	1624	–	–	–	¼	865	0.26	9.7	7AE93	—	4YU96
	2791	2434	2010	–	–	–	⅓	945	0.34	11.5	—	7AF11	
18½"	2839	2469	1882	–	–	–	¼	730	0.26	7.2	7AE94	—	4YU97
	3150	2832	2375	–	–	–	⅓	810	0.34	8.7	7AE95	7AF12	
	3655	3388	3052	2601	–	–	½	940	0.54	12.0	7AE96	7AF13	
	4102	3867	3596	3252	2811	–	¾	1055	0.77	14.9	—	7AF14	
	4608	4401	4179	3900	3575	2499	1	1185	1.10	17.8	—	7AF15	
21½"	3320	2637	–	–	–	–	¼	600	0.26	7.3	7AE97	—	4YU98
	3680	3085	2087	–	–	–	⅓	665	0.35	8.5	7AE98	7AF16	
	4261	3744	3141	–	–	–	½	770	0.55	10.7	7AE99	7AF17	
	4759	4289	3811	3085	–	–	¾	860	0.77	12.9	—	7AF18	
	5340	4927	4520	4015	3240	–	1	965	1.09	15.4	—	7AF19	
24½"	4223	3188	–	–	–	–	¼	460	0.26	5.7	7AF00	—	4YU99
	4637	3761	–	–	–	–	⅓	505	0.35	6.9	7AF01	7AF20	
	5371	4666	3562	–	–	–	½	585	0.55	9.1	7AF02	7AF21	
	6060	5449	4636	3217	–	–	¾	660	0.79	11.8	—	7AF22	
	6702	6158	5507	4568	–	–	1	730	1.06	14.3	—	7AF23	
	7575	7092	6574	5901	5002	–	1½	825	1.54	17.7	—	7AF24	
30½"	5912	4340	–	–	–	–	⅓	365	0.35	5.7	7AF03	7AF25	4YY10
	6803	5537	–	–	–	–	½	420	0.53	7.0	7AF04	7AF26	
	7694	6616	5095	–	–	–	¾	475	0.77	9.6	7AF05	7AF27	
	8585	7640	6456	4195	–	–	1	530	1.07	12.2	7AF06	7AF28	
	9719	8907	7952	6721	–	–	1½	600	1.56	14.9	7AF07	7AF29	
	10,772	10,060	9228	8269	7025	–	2	665	2.12	17.7	—	7AF30	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, conduit kit, belts, and sheaves to obtain performance listed.*

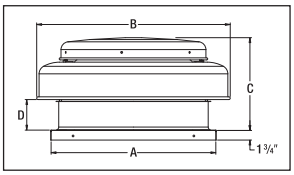
Axial Direct-Drive Downblast Exhaust and Supply Ventilators

- NEMA 1 junction box in motor enclosure
- Max. inlet air temperature: 120°F
- UL-705 Listed for Power Ventilators
- Units with 10" and 12" propeller diameter are wall- or roof-mountable



Provide steady exhaust or supply of clean air under low-to-moderate static pressures. Spun aluminum construction, with fully rolled bead on the windband, for stability and rigidity when lifting and transporting. Many models are speed-controllable; Nos. 4YC52, 4YC54, 4YC60, and 4YC62 are only speed-controllable at 115V. UL and C-UL Listed.

EC Motor—Nos. 39FV53 to 39FV56 feature electronically commutated (EC) motors, providing up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed control kits let you adjust fan speed from a remote location; see page 2955.



Prop. Dia. (in.)	Dimensions A	B	C	D	Recommended Damper (Exhaust Only) Size	Item No.	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
10"	19"	24⅜"	15¼"	5½"	12" x 12"	4HX64	2RB75	2ZV82
12"	22"	28⅜"	16½"	6¼"	15" x 15"	4HX65	2RB76	2ZV82
14"	22"	28⅜"	16½"	6¼"	15" x 15"	4HX65	2RB76	2ZV82
16"	26"	35¼"	17¼"	6¼"	19" x 19"	4HX66	2RB77	2ZV83
18"	30"	35¼"	17¼"	6¼"	23" x 23"	4HX67	2RB79	2ZV83
20"	34"	42"	17½"	6¼"	27" x 27"	4HX68	2RB80	2ZV84
24"	34"	42"	17½"	6¼"	27" x 27"	4HX68	2RB80	2ZV84

Disconnect Type	No. of Poles	Max. HP	Item No.	Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400	NEMA 4	2	2	1H408
	3	7½	1H401		3	7½	1H409

Propeller Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	RPM	Sones @ 0.250" SP @ 5 ft.#	STANDARD MOTOR, 1-Phase, 115V Speed Control	Motor HP	Item No.	EC MOTOR, VARIABLE SPEED, 1-Phase, 115V Speed Control	Motor HP	Item No.	STANDARD MOTOR, 3-Phase, 208-230/460V Speed Control	Motor HP	Item No.
Exhaust Ventilator																
10"	270	—	—	—	—	860	—	—	—	—	43Y140	¼	**39FV53**	—	—	—
	358	—	—	—	—	1140	—	—	—	—				—	—	—
	542	333	—	—	—	1725	12.5	—	—	—				—	—	—
	550	347	189	—	—	1750	13.2	48C172	⅛	**4YC86**	—	—	—	—	—	—
12"	765	—	—	—	—	860	—	—	—	—	43Y140	¼	**39FV54**	—	—	—
	1014	376	—	—	—	1140	5.2	48C172	⅙	**4YC87**				—	—	—
	1534	1263	647	354	—	1725	8.6	—	—	—				—	—	—
	1556	1291	672	386	—	1750	8.9	48C173	¼	**4YC88**	—	—	—	—	—	—
14"	1207	323	—	—	—	860	5.5	—	—	—	43Y140	½	**39FV56**	—	—	—
	1601	925	273	—	—	1140	8.4	48C172	⅙	**4YC89**				—	—	—
	2422	2050	1541	1203	657	1725	15.7	—	—	—				—	—	—
	2457	2093	1603	1244	716	1750	16.2	48C173	½	**4YC90**	—	—	—	—	—	—
16"	1508	598	—	—	—	860	6.0	—	—	—	43Y140	½	**39FV55**	—	—	—
	1999	1418	682	—	—	1140	8.4	48C172	⅙	**4YC48**				—	—	—
	3024	2722	2280	1578	1206	1725	15.7	—	—	—				—	—	—
	3068	2771	2339	1686	1257	1750	16.1	48C172	½	**4YC49**	—	—	—	—	—	—
18"	2982	2264	1276	499	—	1140	11.4	48C172	⅓	**4YC50**	—	—	—	—	—	—
	4578	4141	3660	2935	2327	1750	29	—	1	**4YC51** †	—	—	—	—	1	**6KWN7**
20"	3871	3100	1925	—	—	1140	11.7	48C172	½	**4YC52** **	—	—	—	—	—	—
	5943	5507	5007	4246	3295	1750	23	—	1½	**4YC53** †	—	—	—	—	1½	**6KWN8**
24"	5091	4277	3279	2252	1583	1140	13.6	48C172	½	**4YC54** **	—	—	—	—	—	—
	6042	5137	4146	3136	2028	1140	20	—	1	**4YC55**	—	—	—	—	1	**6KWN9**

Propeller Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	RPM	Sones @ 0.250" SP @ 5 ft.#	STANDARD MOTOR, 1 Phase Voltage @ 60 Hz	Speed Control	Motor HP	Item No.		STANDARD MOTOR, 3 Phase Voltage @ 60 Hz	Speed Control	Motor HP	Item No.
Supply Ventilator																
12"	929	595	—	—	—	1750	14.3	115	48C173	¼	**4YC91**		—	—	—	—
	1444	1203	641	—	—	1750	12.2	115	48C173	¼	**4YC92**		—	—	—	—
14"	2041	1742	1380	1018	—	1750	15.9	115	48C173	¼	**4YC93**		—	—	—	—
	2586	2176	1799	1380	—	1750	19.9	115	48C173	½	**4YC94**		—	—	—	—
16"	2353	2008	1597	1121	—	1750	19.6	115	48C173	½	**4YC56**		—	—	—	—
	2920	2602	2188	1693	1200	1750	20	115	48C172	¾	**4YC57**		208-230/460	—	¾	**6KWP0**
18"	3906	3454	2990	2454	—	1750	27	115	48C172	¾	**4YC58**		208-230/460	—	¾	**6KWP1**
	4247	3846	3259	2724	1779	1750	30	115/208-230	—	1	**4YC59**		208-230/460	—	1	**6KWP2**
20"	3488	2715	1847	—	—	1140	18.4	115/230	48C172	½	**4YC60**	**	—	—	—	—
	5355	4886	4408	3830	3272	1750	34	115/208-230	—	1½	**4YC61**		208-230/460	—	1½	**6KWP3**
24"	4569	3841	2958	—	—	1140	23	115/230	48C172	½	**4YC62**	**	—	—	—	—
	5742	4929	4131	3066	—	1140	24	115/230	—	1	**4YC63**		208-230/460	—	1	**6KWP4**

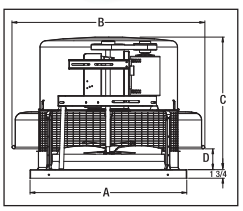
** Performance certified is for installation type A: free inlet, free outlet. Performance ratings include the effects of a bird screen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Speed controls usable at 115V only. † 115/208-230V.*

Axial Belt-Drive Downblast Exhaust Ventilators

- NEMA 1 junction box in motor enclosure
- Max. inlet air temperature: 120°F
- UL-705 Listed for Power Ventilators
- Air-handling quality bearings are selected to meet a minimum of L10-100,000 hr.
- Regreasable pillow block bearings

Provide steady exhaust of clean air under low-to-moderate static pressures. Spun aluminum construction, with fully rolled bead on the windband, for stability and rigidity when lifting and transporting. UL and C-UL Listed.





Propeller Dia.(in.)	Shaft Dia. (in.)	Dimensions (in.) A	B	C	D	Recommended Backdraft Damper Size (in.)	Item No.	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
20	1	30	35¼	28¾	5⅛	23 x 23	4HX67	2RB79	2ZV83
24	1	34	42¼	29	4¾	27 x 27	4HX68	2RB80	2ZV84
30	1¼	42	47½	34⅜	4¾	35 x 35	4HX69	2RB81	2ZV84
36	1¼	46	58⅜	41⅞	6⅝	39 x 39	4HX70	2RB82	2ZV85

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	RPM	Max. BHP†	COMPLETE W/DRIVE PKG.** Single-Phase Motor 115/230V, 60Hz Item No.	3-Phase Motor 230/460V, 60Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
20"	2742	2296	1725	960	—	¼	795	0.26	**7A398**	—	**4YU88**
	3018	2610	2109	1612	—	⅓	875	0.34	**7A399**	**7A415**	
	3456	3092	2743	2228	1795	½	1002	0.52	**7A400**	**7A416**	
	3957	3625	3337	3012	2532	¾	1147	0.78	**7A401**	**7A417**	
24"	3351	2663	1777	—	—	¼	601	0.26	**7A402**	**7A418**	**4YU89**
	3686	3076	2293	1352	—	⅓	661	0.35	**7A403**	**7A419**	
	4221	3679	3045	2391	1488	½	757	0.52	**7A404**	**7A420**	
	4834	4366	3894	3232	2688	¾	867	0.79	**7A405**	**7A421**	
	5320	4905	4472	3946	3386	1	954	1.05	**7A406**	**7A422**	
30"	5073	4292	3337	2349	—	½	551	0.48	**7A407**	**7A423**	**4YU90**
	5810	5139	4369	3571	2631	¾	631	0.80	**7A408**	**7A424**	
	6399	5792	5130	4327	3704	1	695	1.06	**7A409**	**7A425**	
	7320	6788	6239	5618	4901	1½	795	1.60	**7A410**	**7A426**	
	8056	7572	7087	6559	5956	2	875	1.98	**7A411**	**7A427**	
36"	8261	7052	5729	4398	2580	¾	493	0.79	**7A412**	**7A428**	**4YU91**
	9082	7972	6861	5569	4405	1	542	1.06	**7A413**	**7A429**	
	10,406	9425	8502	7424	6316	1½	621	1.57	**7A414**	**7A430**	

Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400
	3	7½	1H401
NEMA 4	2	2	1H408
	3	7½	1H409

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a bird screen in the airstream. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

Supply Or Make-Up Air Ventilation

The total amount of air supplied is approximately 100% of the air exhausted. Insufficient make-up air in the kitchen can create hood capture problems. There are two general types of make-up air, untempered and tempered. Here are some things to consider when selecting the supply portion of your kitchen ventilation system.

- **A slight negative pressure is desirable in a kitchen to keep odors out of the dining room (should not exceed 0.02" static pressure)**
- **Make-up air must be supplied at ±10°F from air in the space**
- **Use non-directional perforated diffusers (4-way diffusers are not recommended in kitchen applications)**

Untempered filtered supply ventilators are the most economical solution if heating or cooling is required and all codes can be met. Untempered air should be supplied near the hood at low velocities so it can be exhausted quickly without mixing in the space, causing discomfort and increasing heating/cooling costs.

Tempered direct-fired make-up air heaters provide the best comfort in the kitchen. Supply tempered air through a source that will distribute air throughout the kitchen to increase comfort. Northern climates almost always require heated make-up air.

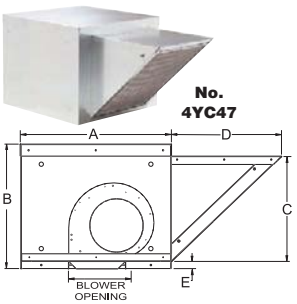
INSTALLATION

NFPA 96

- **Intake must be a minimum of 10 ft. from exhaust ventilator,**

Or

- **Exhaust ventilator discharge must be a minimum of 36" higher than intake**



Centrifugal Belt-Drive Filtered Supply Ventilators

- **Max. inlet air temp.: 120°F**
- **UL 705 Listed for Power Ventilators**
- **Air handling-quality bearings meet min. L10-100,000 hr.**
- **Bearings: sealed pillow block (20½" units are regreasable pillow block)**

Supply untempered, filtered makeup air to commercial and institutional buildings, or in commercial kitchen applications. Heavy-gauge galvanized steel construction. Neoprene isolators, lifting lugs, and weather hood with removable 1" aluminum washable filters. Nos. 4YC82 and 4YC47 can be wall- or roof-mounted. Nos. 4YC83, 5AU56, and 5AU57 are roof-mount only. Motor, belts, and sheaves are packed separately when complete ventilator with drive package is ordered. UL and C-UL Listed.

Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2 @ 115/230V	1H400
	3	7½ @ 230V, 10 @ 460V	1H401
NEMA 4	2	2 @ 115/230V	1H408
	3	7½ @ 230V, 10 @ 460V	1H409

Wheel Dia. (in.)	BLOWER OPENING Discharge Length (in.)	BLOWER OPENING Discharge Width (in.)	Dimensions (in.) A (sq.)	B	C	D	E	RECOMMENDED ROOF CURBS Fixed 8"H Item No.	Fixed 12"H Item No.	Adj. 6⅜"H Item No.	Adj. 12"H Item No.
11⅛	11⅜	13⅜	30	25	21¼	22	1½	4HX41	2RB79	4C454	2ZV83
13¼	13¾	15⅝	34½	32	27½	29¼	2	4HX42	2RB80	4C455	2ZV84
15½	16	18⅝	34½	32	27½	29¼	2	4HX42	2RB80	4C455	2ZV84
18½	19⅛	22¼	42	36	30¾	32	2	4HX43	2RB81	3C597	2ZV85
20½	25⅜	23	46	48	43¾	36	2	4HX44	2RB82	3C597	2ZV85

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.750"	1.00"	Motor HP	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor, 115/230V, 60 Hz Item No.	Totally Enclosed, 1-Phase Motor, 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor, 230/460V, 60 Hz Item No.	Totally Enclosed, 3-Phase Motor, 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
11⅛	735	—	—	—	—	—	⅛	0.04	—	7D493	7HY73	—	—	4YC82
	1435	1106	—	—	—	—	⅛	0.18	11.3	7D494	7HY74	—	—	
	1722	1472	1115	—	—	—	¼	0.28	11.4	7D495	7HY75	—	—	
	1949	1730	1471	1048	—	—	⅓	0.39	12.8	7D496	7HY76	—	—	
	2293	2100	1899	1667	—	—	½	0.61	15.9	7D497	7HY77	7D510	7HY78	
	2661	2485	2324	2140	1661	—	¾	0.92	20	7D498	7HY79	7D511	7HY80	
	2959	2804	2651	2500	2142	1585	1	1.24	24	7D499	7HY81	7D512	7HY82	
13¼	2254	1760	—	—	—	—	⅓	0.30	12.8	7D500	7HY83	—	—	4YC47
	2714	2414	1916	—	—	—	½	0.50	16.2	7D501	7HY84	7D513	7HY85	
	3139	2902	2562	2117	—	—	¾	0.75	21	7D502	7HY86	7D514	7HY87	
	3557	3353	3119	2747	—	—	1	1.06	24	7D503	7HY88	7D515	7HY89	
	3948	3762	3565	3314	2607	—	1½	1.43	27	7D504	7HY90	7D516	7HY91	
15½	3102	2708	2109	1065	—	—	½	0.54	11.2	7D505	7HY92	7D517	7HY93	4YC83
	3597	3280	2831	2293	—	—	¾	0.81	15.8	7D506	7HY94	7D518	7HY95	
	4049	3760	3456	2985	1591	—	1	1.13	18.7	7D507	7HY96	7D519	7HY97	
	4560	4304	4048	3719	2854	—	1½	1.58	22	7D508	7HY98	7D520	7HY99	
	5066	4837	4601	4371	3650	2681	2	2.13	26	—	—	7D521	7HZ00	
18½	6220	5814	5296	4740	3134	—	1½	1.66	18.7	7D509	7HZ01	7D522	7HZ02	5AU56
	6874	6531	6075	5604	4431	—	2	2.20	23	—	—	7D523	7HZ03	
	7926	7604	7275	6858	5995	4894	3	3.30	29	—	—	7D524	7HZ04	
	9474	9168	8913	8643	7935	7218	5	5.52	39	—	—	7D525	7HZ05	
20½	11,502	11,080	10,676	10,160	9004	7781	5	5.50	34	—	—	7D526	7HZ06	5AU57
	13,229	12,848	12,491	12,137	11,208	10,161	7½	8.26	44	—	—	7D527	7HZ07	
	14,602	14,255	13,920	13,597	12,841	11,952	10	11.03	53	—	—	7D528	7HZ08	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a filter. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation in Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*



No. 4HX61

NFPA 96 Required Accessories

Ventilated Roof Curbs—Ventilate hot exhaust ducts in commercial kitchen applications, protecting buildings and roof members. Galvanized steel curbs allow for quick ventilator installation and uniformity throughout the job. Fixed curbs are 18 ga.; adjustable curbs are 16 ga. Flat-flashing flange mounts directly to roof surface. Top flange surface is 1¾" wide. For use with NFPA 96, UL 705, and UL 762 applications.

Curb Height (in.)	Outside Square (in.)	Inside Square (in.)	Use w/Dayton Ventilators	Item No.
Adjustable Ventilated Roof Curbs, 5" Flashing				
24	17½ to 22	14½ to 18	Sq. Base 19 to 20½"	4HX61
24	24 to 29	21 to 26	Sq. Base 25½ to 27½"	4HX62
18	31 to 46	28 to 43	Sq. Base 32½ to 44½"	4HX63
Fixed Ventilated Roof Curbs, 4" Flashing				
24	17½	14	19" Sq. Base	4HX54
24	20½	17	22" Sq. Base	4HX55
24	24½	21	26" Sq. Base	4HX56
24	28½	25	30" Sq. Base	4HX57
18	32½	29	34" Sq. Base	4HX58
18	40½	37	42" Sq. Base	4HX59
18	44½	41	46" Sq. Base	4HX60

Grease Collector Box—Diverts and collects heavy grease residue while protecting roof surface. Fastens directly to curb underneath ventilator and includes connection from ventilator drain to Grease Box. Required for NFPA 96 and UL 762.

Hinge Kits—Allow ventilators to swing back to expose the entire fan for cleaning and inspection, making maintenance easier. Includes retaining cable and hardware kit. Upblast Hinge Kits are required for NFPA 96 and UL 762.

Clean-Out Port Kit—Retrofits ventilator with a cleanout port for access to the ventilator wheel through the windband. Required for NFPA 96. Includes removable plug and hardware. Required for NFPA 96 and UL 762.

H (in.)	L (in.)	W (in.)	For Use With Dayton Roof-Mounted Centrifugal Ventilators	Item No.
Grease Collector Box				
6	12	5	Upblast	48C174
Hinge Kits - Upblast				
—	—	—	Upblast, 17 "to 30" Sq. Base	4HX79
—	34	34	Upblast, 34" Sq. Base	20CK53
—	40	40	Upblast, 40" Sq. Base	20CK54
—	42	42	Upblast, 42" Sq. Base	20CK55
—	46	46	Upblast, 46" Sq. Base	20CK56

H (in.)	L (in.)	W (in.)	For Use With Dayton Roof-Mounted Centrifugal Ventilators	Item No.
Hinge Kits - Downblast				
—	34	34	Downblast, 34" Sq. Base	20CK47
—	40	40	Downblast, 40" Sq. Base	20CK48
—	42	42	Downblast, 42" Sq. Base	20CK49
—	46	46	Downblast, 46" Sq. Base	20CK50
—	52	52	Downblast, 52" Sq. Base	20CK51
—	64	64	Downblast, 64" Sq. Base	20CK52
Clean-Out Port Kit				
7	—	7	Upblast	3ATV9

Nonventilated Roof Curbs

Prefabricated, leakproof curbs provide compatibility between ventilator, curb, and roof opening on commercial and industrial buildings. Most include 1" insulation and integral damper tray. Adjustable curbs are shipped unassembled.

Canted—For flat, noninsulated roof decks with thick or rigid roofing material. 18-ga. galvanized steel body construction with fully welded corners. Fixed curbs include 1½" wood nailer.

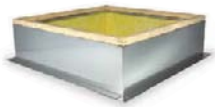
- For noninsulated metal, concrete, or wood roof decks
- For built-up asphalt or coal tar roofing materials

Straight-Sided—For flat roof decks with up to 6" of insulation. Roll-formed with 18-ga. galvanized steel and 1 welded side for added strength. Fixed curbs include 1½" lap-joint wood nailer.

Curb Sq. O.D. (in.)	Curb Sq. I.D. (in.)	Damper Size (in.)	8"H Item No.	12"H Item No.
Fixed, Canted, 1⅛" Flashing Flange				
15	11½	12 x 12	**3TZ53**	—
17½	14½	12 x 12	**4HX38**	**4HX46**
20½	17½	15 x 15	**4HX39**	**4HX47**
24½	21½	19 x 19	**4HX40**	**4HX48**
28½	25½	23 x 23	**4HX41**	**4HX49**
32½	29½	27 x 27	**4HX42**	**4HX50**
40½	37½	35 x 35	**4HX43**	**4HX51**
44½	41½	39 x 39	**4HX44**	**4HX52**
55½	52½	50 x 50	**4HX45**	**4HX53**
62½	59½	50 x 50	**4YY76**	**4YY77**

Curb Sq. O.D. (in.)	Curb Sq. I.D. (in.)	Damper Size (in.)	6⅜"H Item No.	12⅜"H Item No.
Adjustable, Canted, 1⅛" Flashing Flange				
14½ to 23	10½ to 19	12 to 19 Sq.	**4C453**	**4C670**
23½ to 32	19½ to 28	19 to 27 Sq.	**4C454**	**3C437**
32½ to 41	28½ to 37	27 to 39 Sq.	**4C455**	**3C438**
41 to 49½	37 to 45½	39 to 50 Sq.	**3C597**	**3C598**
50 to 58½	46 to 54½	50 x 50 Sq.	**3C216**	**3C439**
64 to 72½	60 to 68½	—	—	**1VN43** *

**** Does not include damper tray.***

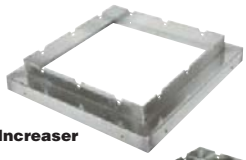


No. 2RB74

Dayton

- For insulated and noninsulated metal, concrete, or wood roof decks
- For rubber membrane and urethane foam roofing materials

Curb Sq. O.D. (in.)	Curb Sq. I.D. (in.)	Damper Size (in.)	12"H Item No.
Fixed, Straight-Sided, 2" Flashing Flange			
15	11½	9½ x 9½	**2RB74**
15½	12½	9 ½ x 9 ½	**5EFJ2**
17½	14½	12 x 12	**2RB75**
20½	17½	15 x 15	**2RB76**
23	20	17½ x 17½	**3FLT5**
24½	21½	19 x 19	**2RB77**
27	24	21½ x 21½	**3AZH7**
27½	24½	—	**2RB78** *
28½	25½	23 x 23	**2RB79**
32½	29½	27 x 27	**2RB80**
33	30	27½ x 27½	**3AZH8**
34½	31½	—	**3AZH9** *
37½	34½	—	**3AZJ1** *
38½	35½	27 X 27	**24Y860**
39	36	33½ x 33½	**3AZJ2**
40½	37½	35 x 35	**2RB81**
43½	40½	—	**3AZJ3** *
44½	41½	39 x 39	**2RB82**
45	42	39½ x 39½	**3AZJ4**
49	46	—	**3AZJ5** *
50½	47½	39 x 39	**5EFJ3**
53	50	47½ x 47½	**3AZJ6**
55½	52½	—	**3AZJ7** *
59	56	53½ x 53½	**3FLT6**
62½	59½	50 x 50	**2RB83**
65	62	59½ x 59½	**3AZJ8**
71	68	—	**3AZJ9** *
Adjustable, Straight-Sided, 4" Flashing Flange			
14½ to 23	10½ to 19	12 to 19 Sq.	**2ZV82**
23½ to 32	19½ to 28	19 to 27 Sq.	**2ZV83**
32½ to 41	28½ to 37	27 to 39 Sq.	**2ZV84**
41 to 49½	37 to 45½	39 to 50 Sq.	**2ZV85**
50 to 58½	46 to 54½	50 x 50	**2ZV86**
64 to 72½	60 to 68½	—	**2ZV87**



Increaser



Reducer

Dayton

Roof Curb Adapters

Allow existing roof curb to be used when replacing a fan or ventilator. Adapt standard fan base dimension to existing curb. Add no height to the installation. Galvanized steel. Top and bottom flange surface is 2½".

Fan Side Sq. O.D. (in.)	Curb Side Sq. O.D. (in.)	Function	Item No.
Increaser			
18½	21	19" Fan Base Fits 21" Curb	**3AZK8**
21½	24	22" Fan Base Fits 24" Curb	**6KWP5**
21½	26	22" Fan Base Fits 26" Curb	**3AZK9**
25½	30	26" Fan Base Fits 30" Curb	**3AZL1**
29½	34	30" Fan Base Fits 34" Curb	**3AZL2**
33½	40	34" Fan Base Fits 40" Curb	**3AZL3**
40	44½	40½" Fan Base Fits 44½" Curb	**3AZL4**
Reducer			
18½	17	19" Fan Base Fits 17" Curb	**3AZK1**
21½	18	22" Fan Base Fits 18" Curb	**3AZK2**
21½	20	22" Fan Base Fits 20" Curb	**3AZK3**
25½	22	26" Fan Base Fits 22" Curb	**3AZK4**
25½	24	26" Fan Base Fits 24" Curb	**6KWP6**
29½	24	30" Fan Base Fits 24" Curb	**6KWP7**
29½	26	30" Fan Base Fits 26" Curb	**3AZK5**
33½	30	34" Fan Base Fits 30" Curb	**3AZK6**
45½	42	46" Fan Base Fits 42" Curb	**3AZK7**

Rooftop Accessories

GA GRAINGER APPROVED
PORTALSPLUS

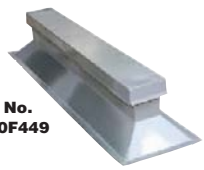
Rooftop Equipment Mounting Rail—Provides uniform mounting pedestals for various roof-mounted equipment.

Flat Roof Flashing—Flexible rubber cap fastens to seamless aluminum base for secure, watertight seal. Stainless steel clamps included.

Shingle Roof Flashing—Galvanized base with elastomeric center collar for slopes up to 40°.

Corrugated-Metal Roof and Wall Flashing—1-pc. weather-resistant EPDM flexible rubber flashing with integral aluminum base.

No. 4YN42—Includes carry box, seam tape to join pieces of rubber, adhesive-backed cover tape for repairing punctures and tears in membranes, and adhesive-backed flashing tape to repair corner molding and flashing. Also includes primer wash and applicator, scissors, and seam roller.



No. 30F449



No. 4YN30

Description	Pipe Size (in.)	Brand	Mfr. Model	Item No.
Rooftop Equipment Mounting Rail, 3 ft. L	—	GA	—	**30F449**
Rooftop Equipment Mounting Rail, 4 ft. L	—	GA	—	**30F450**
Rooftop Equipment Mounting Rail, 6 ft. L	—	GA	—	**30F451**
Flat Roof Flashing, 1 Pipe	2 to 6	Portals Plus	—	**4YN30**
Flat Roof Flashing, 4 Pipes	(2) ⅜ to 1; (2) 1 to 2	Portals Plus	—	**4YN31**
Shingle Roof Flashing, 1 Pipe	1¼ to 1½	Portals Plus	—	**4YN38**
Shingle Roof Flashing, 1 Pipe	2	Portals Plus	—	**4YN39**
Shingle Roof Flashing, 1 Pipe	3	Portals Plus	—	**4YN40**
Shingle Roof Flashing, 1 Pipe	4	Portals Plus	—	**4YN41**
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	¼ to 5¾	Master Flash	SQ301GA	**46E374**
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	4 to 8¼	Master Flash	SQ501GA	**46E375**
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	6¾ to 13½	Master Flash	SQ801GA	**46E376**
Single-Ply EPDM Rubber Roof Repair Kit	—	Portals Plus	—	**4YN42**

Description	Item No.
Roof Repair Products	
4 mil. Aluminum Backed Sealant Tape, 2" x 50 ft., 20 mil.	**3GYH6**
4 mil. Aluminum Backed Sealant Tape, 4" x 50 ft., 20 mil.	**3GYE7**
Double Stick Sealant Tape, Gray, 2" x 50 ft., 60 mil.	**3GYE8**
Double Stick Sealant Tape, Black, Gray And White, 40 Rolls Total (15 Rolls White, 15 Rolls Black 2" x 4 ft., 65 mil. , and 10 Rolls of 60 mil. Double-Sided)	**3GYG9**
RoofSeal Tape, Black, 4" x 50 ft., 35 mil.	**3GYF4**
RoofSeal Tape, White, 4" x 50 ft., 35 mil.	**3GYG2**
RoofSeal Tape, Black, 6" x 50 ft., 35 mil.	**3GYF5**
RoofSeal Tape, White, 6" x 50 ft., 35 mil.	**3GYG3**
RoofSeal Tape, Black, 12" x 50 ft., 35 mil.	**3GYF3**
RoofSeal Plus Tape, Black, 4" x 25 ft., 65 mil.	**3GYF6**
RoofSeal Plus Tape, White, 4" x 25 ft., 65 mil.	**3GYF8**
RoofSeal Plus Tape, Black, 6" x 25 ft., 65 mil.	**3GYF7**
RoofSeal Plus Tape, White, 6" x 25 ft., 65 mil.	**3GYF9**
Paintable Woven Fabric-Coated Tape, Gray, 2" x 50 ft., 25 mil.	**3GYJ1**
Paintable Woven Fabric-Coated Tape, Gray, 4" x 50 ft., 25 mil.	**3GYG4**
Paintable Woven Fabric-Coated Tape, Gray, 6" x 50 ft., 25 mil.	**3GYG5**
Paintable Woven Fabric-Coated Tape, Gray, 12" x 50 ft., 25 mil.	**3GYG8**
Roof Repair Tape Kit and Surface Prep Pads, White, 4" x 5 ft., 35 mil.	**3GYH1**
Roof Repair Tape Kit and Surface Prep Pads, Black, 4" x 5 ft., 35 mil.	**3GYH2**

ETERNABOND
Powered by MICROSEALANT TECHNOLOGY ROYAL

Roof Repair Tapes, Primers, and Tools



No. 3GYG2

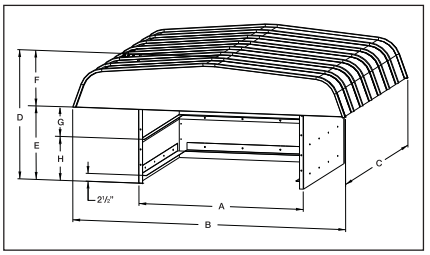


No. 3GYF1

Description	Item No.
Roof Repair Kit	
6" x 50-ft. RoofSeal, 2" x 50-ft. Double-Sided Stick, 4" x 50-ft. WebSeal, 14-oz. Spray Can EternaPrime, 14-oz. Spray Can EternaClean, 2 Lb. x 2.5" Curved End Steel Roller, Heavy Duty Scissors, Surface Preparation Pad, Seam Probe, Tool Bag, and Instructions	**3GYE6**
Cleaners and Tools	
Primer, 1 qt., Covers 75 sq. ft., Aggressive Adhesive and Surface Conditioner for MicroSealants	**3GYF1**
Primer Spray, 14 oz., Aggressive Adhesive and Surface Conditioner for MicroSealants	**3GYF2**
Cleaning Spray, 14 oz., A Nonchlorinated Cleaner Formulated with Proprietary Mixture of Hot Solvents	**3GYE9**
Steel Roller, 8" L, Curved End with Handle	**3GYH4**



No. 7CF73 (Shown in Service Position)



Dayton

Hooded Axial Belt-Drive Roof Ventilators

- Max. inlet air temperature: 104°F

Designed for roof-mounted exhaust or supply of clean air in factories, warehouses, and other large facilities. Heavy-gauge galvanized steel construction features hinged hood with bird screen, providing convenient access to motor and drives. Strong, weathertight hood is constructed of interlocking arched galvanized panels. Bird screen and hood come preassembled (except 54" and 60" sizes). Base requires field assembly with hardware provided. Housing, fan, and drive packages are shipped separately. Reversible exhaust/supply ventilators include wall-mounted reversing switch.

Propeller Dia. (in.)	Dimensions (in.) A	B	C	D	E	F	G	H	Recommended Accessories: Roof Curb Fixed 12"H Item No.	Roof Curb Adj. 12"H Item No.	Gravity Backdraft Damper Item No.
20	24½	44	48	38	22	16	11½	10½	3FLT5	2ZV83	3HHL6
24	28½	48	48	38	22	16	11½	10½	3AZH7	2ZV83	2FTV7
30	34½	57	60	38	22	16	11½	10½	3AZH8	2ZV84	3HHL8
36	40½	68	60	38	22	16	11½	10½	3AZJ2	2ZV84	3HHN1
42	46½	78	72	40½	24½	16	10	14½	3AZJ4	2ZV85	6WRK7
48	54½	90	84	42½	26½	16	12½	14	3AZJ6	2ZV86	6WRK8
54	60½	96	96	53½	28½	25	14	14½	3FLT6	2ZV87	5NKN7
60	66½	100	108	54½	30½	24	14½	16	3AZJ8	2ZV87	6WRK9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	Motor HP	Fan RPM	COMPLETE WITH DRIVE PACKAGE**: Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 230/460V, 60 Hz Item No.
Exhaust Ventilators										
20"	3080	2707	2123	998	¼	953	7AD67	7AD68	7AD69	7AD70
	3357	3025	2540	1752	⅓	1039	7AD71	7AD72	7AD73	7AD74
	3945	3678	3331	2866	½	1221	7AD75	7AD76	7AD77	7AD78
24"	3957	3536	2927	—	¼	923	7CF46	7CF47	7AE00	7CF48
	4339	3961	3450	—	⅓	1012	7CF49	7CF50	7AE01	7CF51
	5064	4747	4376	—	½	1181	7CF52	7CF53	7AE02	7CF54
	5797	5520	5225	4852	¾	1352	7CF55	7CF56	7AE03	7CF57
30"	5535	4698	—	—	¼	621	7CF58	7CF59	7AE04	7CF60
	6016	5275	4024	—	⅓	675	7CF61	7CF62	7AE05	7CF63
	6916	6268	5452	—	½	776	7CF64	7CF65	7AE06	7CF66
	7861	7287	6677	5791	¾	882	7CF67	7CF68	7AE07	7CF69
	8628	8100	7594	6901	1	968	7CF70	7CF71	7AE08	7CF72
36"	7758	6050	4190	—	⅓	477	7CF73	7CF74	7AE09	7CF75
	9043	7643	6450	3880	½	556	7CF76	7CF77	7AE10	7CF78
	10,213	8995	7552	6780	¾	628	7CF79	7CF80	7AE11	7CF81
	11,287	10,211	8962	7308	1	694	7CF82	7CF83	7AE12	7CF84
	12,881	11,987	10,917	9746	1½	792	7CF85	7CF86	7AE13	7CF87
42"	10,151	8266	6550	—	½	426	7CF88	7CF89	7AE14	7CF90
	11,485	9885	7250	6420	¾	482	7CF91	7CF92	7AE15	7CF93
	12,702	11,308	9489	8780	1	533	7CF94	7CF95	7AE16	7CF96
	14,489	13,318	11,856	9793	1½	608	7CF97	7CF98	7AE17	7CF99
48"	11,277	8481	6160	—	½	341	7CH03	7CH04	7AE18	7CH05
	12,997	10,826	10,010	—	¾	393	7CH06	7CH07	7AE19	7CH08
	14,188	12,290	8779	7980	1	429	7CH09	7CH10	7AE20	7CH11
	16,238	14,599	12,434	6725	1½	491	7CH12	7CH13	7AE21	7CH14
	17,858	16,384	14,644	11,742	2	540	7CH15	7CH16	7AE22	7CH17
	20,437	19,165	17,807	16,057	3	618	—	—	7AE23	7AE24
54"	18,680	16,129	—	—	1½	343	7AD79	7AD80	7AD81	7AD82
	20,205	17,856	13,797	—	2	371	7AD83	7AD84	7AD85	7AD86
	23,363	21,332	18,889	—	3	429	—	7AD87	7AD88	7AD89
	27,612	25,893	24,174	21,742	5	507	—	—	7AD90	7AD91
60"	28,530	26,087	23,172	—	5	485	—	—	7AD92	7AD93
	32,648	30,510	28,398	24,618	7½	555	—	—	7AD94	7AD95
	35,942	34,001	32,075	29,935	10	611	—	—	7AD96	7AD97
	41,118	39,421	37,726	36,055	15	699	—	—	7AD98	7AD99
Supply Ventilators										
20"	3133	2755	2160	1015	¼	953	7AE25	7AE26	7AE27	7AE28
	3416	3077	2585	1782	⅓	1039	7AE29	7AE30	7AE31	7AE32
	4014	3742	3389	2916	½	1221	7AE33	7AE34	7AE35	7AE36
24"	4054	3622	2999	—	¼	923	7CH18	7CH19	7AE58	7CH20
	4445	4057	3534	—	⅓	1012	7CH21	7CH22	7AE59	7CH23
	5187	4863	4483	—	½	1181	7CH24	7CH25	7AE60	7CH26
	5938	5655	5352	4970	¾	1352	7CH27	7CH28	7AE61	7CH29
30"	5712	4842	—	—	¼	621	7CH30	7CH31	7AE62	7CH32
	6209	5444	4153	—	⅓	675	7CH33	7CH34	7AE63	7CH35
	7138	6469	5627	—	½	776	7CH36	7CH37	7AE64	7CH38
	8113	7520	6891	5976	¾	882	7CH39	7CH40	7AE65	7CH41
	8904	8360	7837	7122	1	968	7CH42	7CH43	7AE66	7CH44
36"	8073	6296	3200	—	⅓	477	7CH45	7CH46	7AE67	7CH47
	9410	7953	4810	—	½	556	7CH48	7CH49	7AE68	7CH50
	10,628	9360	7858	5160	¾	628	7CH51	7CH52	7AE69	7CH53
	11,745	10,624	9325	7604	1	694	7CH54	7CH55	7AE70	7CH56
	13,403	12,472	11,360	10,141	1½	792	7CH57	7CH58	7AE71	7CH59
42"	10,813	8805	5100	—	½	426	7CH60	7CH61	7AE72	7CH62
	12,235	10,530	7723	4280	¾	482	7CH63	7CH64	7AE73	7CH65
	13,530	12,045	10,108	6750	1	533	7CH66	7CH67	7AE74	7CH68
	15,434	14,187	12,629	10,432	1½	608	7CH69	7CH70	7AE75	7CH71
48"	12,144	9133	—	—	½	341	7CH75	7CH76	7AE76	7CH77
	13,997	11,659	7600	—	¾	393	7CH78	7CH79	7AE77	7CH80
	15,279	13,235	9454	—	1	429	7CH81	7CH82	7AE78	7CH83
	17,487	15,722	13,390	5380	1½	491	7CH84	7CH85	7AE79	7CH86
	19,232	17,644	15,770	12,646	2	540	7CH87	7CH88	7AE80	7CH89
	22,010	20,639	19,176	17,293	3	618	—	—	7AE81	7AE82

*** Drive Package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

CONTINUED

CONTINUED

Hooded Axial Belt-Drive Roof Ventilators

Dayton®

Blade Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	Motor HP	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 230/460V, 60 Hz Item No.
Supply Ventilators (Cont.)										
54"	20,036	17,299	—	—	1½	343	**7AE37**	**7AE38**	**7AE39**	**7AE40**
	21,672	19,152	14,798	—	2	371	**7AE41**	**7AE42**	**7AE43**	**7AE44**
	25,059	22,881	20,260	—	3	429	—	**7AE45**	**7AE46**	**7AE47**
	29,616	27,772	25,928	23,320	5	507	—	—	**7AE48**	**7AE49**
60"	30,464	27,885	24,743	—	5	485	—	—	**7AE50**	**7AE51**
	34,861	32,579	30,324	26,287	7½	555	—	—	**7AE52**	**7AE53**
	38,378	36,306	34,249	31,964	10	611	—	—	**7AE54**	**7AE55**
	43,906	42,094	40,284	38,499	15	699	—	—	**7AE56**	**7AE57**
Reversible Exhaust/Supply Ventilators										
30"	5991	4604	—	—	⅓	714	**7AU13**	**7AU14**	**7AU15**	**7AU16**
	6922	5863	—	—	½	825	**7AU17**	**7AU18**	**7AU19**	**7AU20**
	7871	6993	5559	—	¾	938	**7AU21**	**7AU22**	**7AU23**	**7AU24**
	8659	7876	6790	—	1	1032	**7AU25**	**7AU26**	**7AU27**	**7AU28**
	9934	9274	8470	7292	1½	1184	**7AU29**	**7AU30**	**7AU31**	**7AU32**
	10,908	10,318	9638	8762	2	1300	**7AU33**	—	**7AU34**	**7AU35**
	12,367	11,848	11,273	10,619	3	1474	—	—	—	**7AU36**
36"	8494	6905	5034	3564	½	659	**7CK23**	**7CK24**	**7AE83**	**7CK25**
	9737	8373	6494	5227	¾	755	**7CK26**	**7CK27**	**7AE84**	**7CK28**
	10,704	9483	8030	6653	1	830	**7CK29**	**7CK30**	**7AE85**	**7CK31**
	12,264	11,244	10,067	7780	1½	951	**7CK32**	**7CK33**	**7AE86**	**7CK34**
	13,490	12,596	11,515	10,346	2	1046	**7CK35**	**7CK36**	**7AE87**	**7CK37**
	15,501	14,745	13,827	12,903	3	1202	**7AU37**	**7AU38**	**7AU39**	**7AU40**
	18,313	17,673	16,974	16,167	5	1420	—	—	**7AU41**	**7AU42**
48"	14,711	10,334	—	—	¾	539	**7AU43**	**7AU44**	**7AU45**	**7AU46**
	16,104	12,397	—	—	1	590	**7AU47**	**7AU48**	**7AU49**	**7AU50**
	18,233	15,243	10,469	—	1½	668	**7AU51**	**7AU52**	**7AU53**	**7AU54**
	20,252	17,686	13,758	—	2	742	**7AU55**	**7AU56**	**7AU57**	**7AU58**
	23,117	20,967	18,022	14,147	3	847	**7AU59**	**7AU60**	**7AU61**	**7AU62**
	27,485	25,802	23,626	20,891	5	1007	—	—	**7AU63**	**7AU64**

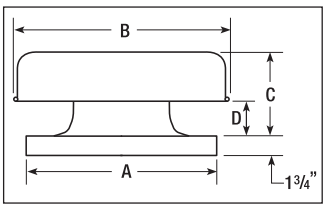
***** Drive Package consists of appropriate motor, belts, and sheaves to obtain performance listed.***

Dayton®

Low-Profile Gravity Roof Ventilators

Designed for exhaust or supply applications on natural gravity or positive pressure systems. Low-profile hoods have rigid aluminum, corrosion-resistant construction. Integral birdscreen. Built-in curb cap with prepunched holes for easy attachment to roof curb.

Item No.	Dimensions (in.) A	B	C	D	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
2RB68	19	20½	7¼	1½	2RB75	2ZV82
2RB69	19	20½	7¼	2	2RB75	2ZV82
2RB70	22	29	10	3½	2RB76	2ZV82
2RB71	26	29	11	4¼	2RB77	2ZV83
2RB72	30	35½	11¼	3¾	2RB79	2ZV83
2RB73	34	38¼	11	4	2RB80	2ZV84





No. 2RB68

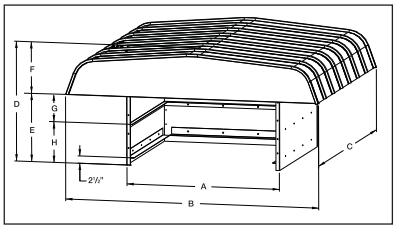
CFM/THROAT VELOCITY @ STATIC PRESSURE SHOWN Gravity Relief @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Gravity Intake @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Max. Intake CFM/Throat Velocity	Item No.
258/697	365/985	408/1102	516/1393	576/1558	199/538	282/761	315/851	398/1077	445/1204	780/2102	**2RB68**
370/650	524/919	586/1027	741/1299	828/1453	312/548	442/775	494/866	624/1096	698/1225	1032/1801	**2RB69**
523/638	740/903	828/1009	1047/1277	1171/1428	448/546	633/772	708/863	895/1092	1001/1221	1512/1848	**2RB70**
973/671	1375/949	1538/1061	1945/1342	2175/1500	829/572	1173/809	1311/904	1658/1144	1854/1279	1812/1258	**2RB71**
1435/638	2029/902	2269/1008	2870/1276	3209/1426	1226/545	1733/770	1938/861	2452/1090	2741/1218	2658/1188	**2RB72**
2101/648	2971/917	3321/1025	4201/1297	4697/1450	1724/532	2438/752	2725/841	3447/1064	3854/1190	2970/926	**2RB73**

Dayton®

Hooded Gravity Roof Ventilators

Designed for nonpowered ventilation or can be used in conjunction with powered exhaust, supply, or reversible fans. Strong, weathertight hood is constructed of interlocking, arched, galvanized steel panels. Bird screen and hood come preassembled (except 54" and 60" sizes). Base requires field assembly with included hardware.

Item No.	Dimensions (in.) A	B	C	D	E	F	G	H	Damper Size (in.)	Recommended Accessories Roof Curb Fixed 12"H Item No.	Roof Curb Adj. 12"H Item No.	Gravity Backdraft Damper Item No.
3FKE1	24½	44	48	38	22	16	11½	10½	21 x 21	3FLT5	2ZV83	3HHL6
1WDN3	28½	48	48	38	22	16	11½	10½	25 x 25	3AZH7	2ZV83	2FTV7
1WDN4	34½	57	60	38	22	16	11½	10½	31 x 31	3AZH8	2ZV84	3HHL8
1WDN5	40½	68	60	38	22	16	11½	10½	37 x 37	3AZJ2	2ZV84	3HHN1
1WDN6	46½	78	72	40½	24½	16	10	14½	43 x 43	3AZJ4	2ZV85	6WRK7
1WDN7	54½	90	84	42½	26½	16	12½	14	49 x 49	3AZJ6	2ZV86	6WRK8
3FKE2	60½	96	96	53½	28½	25	14	14½	55 x 55	3FLT6	—	5NKN7
3FKE3	66½	100	108	54½	30½	24	14½	16	61 x 61	3AZJ8	2ZV87	6WRK9

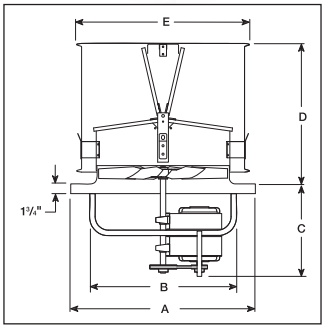




No. 1WDN4

Blade Dia.	CFM/THROAT VELOCITY @ STATIC PRESSURE SHOWN Gravity Relief @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Gravity Intake @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Max. Intake CFM/Throat Velocity	Item No.
20"	1782/509	2520/720	2818/805	3565/1018	3985/1139	1599/457	2201/629	2461/703	3112/889	3480/994	5500/1571	**3FKE1**
24"	2539/635	3591/898	4015/1004	5079/1260	5678/1420	2443/536	3030/758	3388/847	4285/1071	4791/1198	6069/1239	**1WDN3**
30"	3646/583	5156/825	5765/922	7292/1167	8153/1304	3153/504	4459/713	4985/798	6306/1009	7050/1128	8784/1301	**1WDN4**
36"	5128/570	7251/806	8107/901	10,255/1139	11,466/1274	4191/466	5926/658	6626/736	8381/931	9371/1041	11,634/1225	**1WDN5**
42"	6229/509	8809/719	9849/804	12,458/1017	13,929/1137	5633/460	7967/650	8907/727	11,267/920	12,597/1028	15,476/1214	**1WDN6**
48"	7695/481	10,882/680	12,167/760	15,390/962	17,207/1075	7300/456	10,324/645	11,542/721	14,600/912	16,323/1020	20,766/1240	**1WDN7**
54"	12,094/509	17,103/720	19,122/805	24,188/1018	27,043/1139	10,851/457	14,934/629	16,697/703	21,120/889	23,613/994	23,550/992	**3FKE2**
60"	14,716/509	20,811/720	23,268/805	29,433/1018	32,907/1139	13,204/457	18,172/629	20,317/703	25,699/889	28,733/994	24,660/853	**3FKE3**





Axial Belt-Drive Upblast Exhaust Ventilators

- UL-705 Listed for Power Ventilators
- Max. inlet air temperature: 120°F
- Air handling quality bearings are selected to meet a minimum of L10-100,000 hr.
- 24" propeller dia. units feature sealed pillow block bearings
- 30" propeller dia. and larger units feature regreasable pillow block bearings

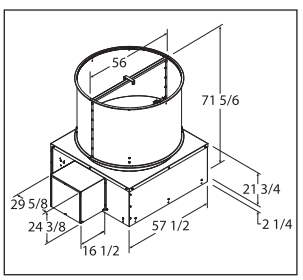
For use in industrial and commercial buildings, including warehouses, manufacturing facilities, foundries, and laboratories. Units are highly weather resistant, with housings constructed of heavy-gauge galvanized steel, bolted seams, and reinforced edges for added strength. Drive frames are die-formed, galvanized structural steel, providing a rigid platform for motors, shafts, bearings, and drives. Fabricated steel propellers have steeply pitched blades to generate low sound levels. Integral butterfly dampers prevent unwanted backdrafts and have magnetic latches to minimize damper flutter when not in use. Built-in lifting lugs speed installation; the windband is removable for easy inspection. UL and C-UL Listed.

Blade Dia.	Dimensions (in.) A	B	C	D	E	Recommended Roof Curb Adj. 12" H Item No.	Fixed 12"H Item No.
24"	36⅜	28⅜	16	26	31⅛	2ZV84	3AZH9
30"	38¾	32½	18⅛	30	37⅜	2ZV84	3AZJ1
36"	44¾	38½	17½	33	43½	2ZV85	3AZJ3
42"	50½	44¼	20	38	49⅝	2ZV86	3AZJ5
48"	56¾	50½	20½	40	56	2ZV86	3AZJ7
54"	66½	61¼	28	45	62⅝	2ZV87	3AZJ8
60"	72½	66¼	26⅝	48	68¾	2ZV87	3AZJ9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	Fan RPM	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor, 115/230V, 60 Hz Item No.	Totally Enclosed, 1-Phase Motor, 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor, 230/460V, 60 Hz Item No.	Totally Enclosed, 3-Phase Motor, 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
24"	5934	4912	—	—	—	⅓	706	0.40	13.6	7HZ09	7A890	7HZ10	7A895	4YY23
	6791	5985	—	—	—	½	808	0.60	16.4	7HZ11	7A891	7HZ12	7A896	
	7766	7078	6127	—	—	¾	924	0.90	21	7HZ13	—	7HZ14	7A897	
30"	11,108	9534	7845	—	—	¾	695	0.90	17.2	7HZ15	7A857	7HZ16	7A871	4YY24
	12,227	10,765	9434	—	—	1	765	1.20	20	7HZ17	7A858	—	7A872	
	14,001	12,739	11,566	10,270	—	1½	876	1.81	24	—	7A859	—	7A873	
	15,408	14,272	13,148	12,089	—	2	964	2.41	30	—	7A860	7A874	—	
36"	13,858	11,600	—	—	—	¾	497	0.90	16.2	7HZ18	7A861	7HZ19	7A875	4YY25
	15,252	13,326	—	—	—	1	547	1.20	19.2	7HZ20	7A862	7HZ21	7A876	
	17,455	15,884	13,659	—	—	1½	626	1.80	24	7HZ22	7A863	7HZ23	7A877	
	19,212	17,866	15,917	13,659	—	2	689	2.40	29	7HZ24	7A864	7HZ25	7A878	
42"	21,814	19,068	14,632	—	—	1½	482	1.81	21	7HZ26	7A865	7HZ27	7A879	4YY26
	23,987	21,470	18,061	11,471	—	2	530	2.41	24	7HZ28	7A866	7HZ29	7A880	
	27,472	25,246	22,743	19,228	12,915	3	607	3.61	29	—	—	7HZ30	7A881	
	32,495	30,584	28,793	26,363	23,522	5	718	5.98	39	—	—	7HZ31	7A882	
48"	25,517	22,356	17,815	—	—	1½	399	1.81	15.8	7HZ32	7A868	7HZ33	7A883	4YY27
	28,075	25,312	21,501	14,614	—	2	439	2.40	18.8	7HZ34	7A869	7HZ35	7A884	
	32,104	29,829	26,528	23,376	16,326	3	502	3.61	24	—	—	7HZ36	7A885	
	37,987	36,154	33,838	30,758	28,240	5	594	5.98	29	—	—	7HZ37	7A886	
54"	33,788	28,700	17,378	—	—	2	366	2.61	17.0	7HZ38	7A900	7A904	—	4YY28
	37,655	33,239	25,221	—	—	3	408	3.62	22	7HZ39	7A901	7HZ40	7A905	
	44,589	41,195	36,770	25,204	20,392	5	483	5.97	29	—	7A902 ‡	7HZ41	7A906	
	50,958	48,034	44,312	40,154	28,469	7½	552	8.98	39	—	7A903 ‡	7HZ42	7A907	
60"	43,011	36,740	—	—	—	3	337	3.60	22	7HZ43	7A908	7HZ44	7A911	4YY29
	51,052	46,295	39,734	—	—	5	400	6.00	25	—	7A909 ‡	7HZ45	7A912	
	58,455	54,801	49,056	—	—	7½	458	9.05	31	—	7A910 ‡	7HZ46	7A913	
	64,326	61,083	58,176	50,976	—	10	504	12.05	43	—	—	7HZ47	7A914	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ 230V only.*





Emergency Smoke Exhaust Ventilators

- Spring-loaded damper lifters meet UL-793 Snow Load Rating
- UL Listed for Emergency Smoke Control
- Max. inlet air temperature: 120°F continuous operation; 500°F for 4 hr.; 1000°F for 15 min.
- High-temperature regreasable pillow block bearings

For use in industrial and commercial buildings such as manufacturing facilities, foundries, and laboratories. Heavy-gauge, galvanized steel fans feature a 165°F fusible link on damper lifters. Belt tubes have heat shields. Magnetic damper latches prevent positive pressure from lifting dampers. Windbands have lifting lugs. Roof curb required for new installations. UL and C-UL Listed.

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	Fan RPM	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	Recommended Roof Curb, Adj. 12"H Item No.	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed 3-Phase Motor, 208-230/460V, 60Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
48"	25,642	22,583	18,650	—	—	2	433	2.20	18.4	2ZV86	7M7V3	2RB67
	29,373	26,836	23,563	19,730	—	3	496	3.31	23	2ZV86	7M7V4	
	34,761	32,809	30,166	27,319	24,091	5	587	5.49	29	2ZV86	7M7V5	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation Type A: free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

Dayton

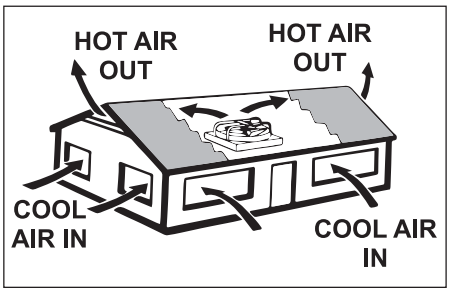
Assembled Whole House Fans

- Mount: horizontal
- Thermally protected, 2-speed motors
- 115V/60 Hz
- Preassembled wood frame

Effectively cool and ventilate an entire home by removing hot, humid air through the attic and drawing in cooler air from outside. Gasket between the venturi and plenum box reduces noise. Painted steel housing. Belt drive models have automatic belt tensioning system which eliminates manual belt adjustment. All models include 2-speed wall switch with 12-hr. timer. Fans are UL and C-UL Listed.



No. 1LXN7



Blade Dia.	CFM High	CFM Low	Amps	Watts	HP	Fan RPM	W (in.)	H (in.)	D (in.)	Coverage (sq.-ft.)	No. of Blades	Item No.
Heavy Duty Belt Drive												
24"	3700	2500	6.7/4.6	335/210	1/3	560/370	30	15	30	800	4	**2EAX5**
30"	7600	5100	6.7/4.7	550/367	1/3	455/305	34	15	34	1200	4	**1LXN7**
36"	10,600	7100	8.2/6.4	850/567	1/2	415/275	40	15	40	2500	4	**1LXN8**
42"	12,600	8400	8.2/4.4	661/350	1/2	410/270	46	15	46	3200	4	**2EAX4**
Heavy Duty Direct Drive												
24"	4700	3500	2.0/1.5	220/170	1/4	840/625	30	9	30	800	3	**3EAU1**
30"	6000	4500	2.3/1.6	270/190	1/4	795/610	34	9	34	1000	3	**3EAU2**

AirKing Ventilation Products®

20" Whole House Fan

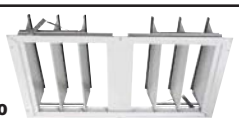
- 120V/60 Hz
- Electrically reversible for air intake or exhaust
- ETL Listed and OSHA-compliant guards
- 6-ft., 18/3-cond. power cord with integrated safety plug

Can be mounted on inside or outside of window trim to provide air movement where permanent attic-mounted ventilating fans cannot be installed. Storm Guard® allows window to be closed behind fan during inclement weather. Extender side panels fit windows 27" to 38"W x 26¼"H. Fan is not intended for use in commercial cooking, foundries, or industrial applications with exposure to dust-laden atmospheres or extreme ambient air temperature. Tested to AMCA standard 230.99.



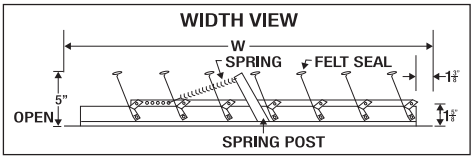
Blade Dia.	CFM High	CFM Medium	CFM Low	Fan Voltage	Amps	Watts	Fan RPM	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
20"	3560	3120	2510	120VAC	1.4/1.2/1.0	170/145/115	1600/1450/1100	26⅝	26½	11	9166	**3C614**

Truss No. 3C510



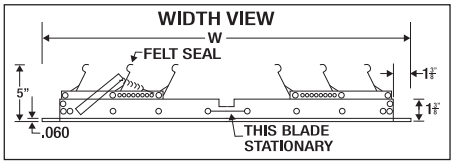


Premium No. 4C225



Dayton

Ceiling Shutters



Fit flush in ceiling opening below whole-house fans. Tie rods at each side of shutter assure uniform opening when fan is operating. White extruded aluminum frame with 1½" flange and 3/16" dia. mounting holes. White louvers with felted edges. Truss shutters install without framing or cutting ceiling joist.

Fits Fan Dia.	L	W	Shutter Opening Required	Shutter Free Area	For Use With	Item No.
Economy Ceiling Truss Shutters						
24"	26"	32"	24" x 30"	3.323 sq. ft.	24" Whole House Fans	**3C510**
24"	30¾"	29 11/16"	28¾" x 27 11/16"	4.425 sq. ft.	3C545	**4HA10**
30"	30¾"	35⅞"	28¾" x 33⅞"	5.435 sq. ft.	3C374, 3C546, 5M155	**4HA11**
30"	32"	32"	30" x 30"	4.652 sq. ft.	30" Whole House Fans	**3C511**
36"	36"	32"	34" x 30"	5.981 sq. ft.	36" Whole House Fans	**3C512**
36"	37¾"	36"	35¾" x 34"	7.126 sq. ft.	3C375, 5M156	**4HA12**
Economy Ceiling Shutters						
24"	26"	26"	24" x 24"	3.631 sq. ft.	24" Whole House Fans	**3HHR2**
30"	32"	32"	30" x 30"	5.316 sq. ft.	30" Whole House Fans	**3HHR3**
36"	36"	36"	34" x 34"	7.293 sq. ft.	36" Whole House Fans	**3HHR4**
Premium Ceiling Truss Shutters						
24"	32"	26"	30" x 24"	4.652 sq. ft.	24" Whole House Fans	**3HHR6**
30"	35"	32"	33" x 30"	5.162 sq. ft.	30" Whole House Fans	**3HHR7**
42"	42"	40"	40" x 38"	8.168 sq. ft.	42" Whole House Fans	**3HHR8**
42"	43"	32"	41" x 30"	6.523 sq. ft.	42" Whole House Fans	**3HHR9**

Economy—Max. velocity: 1500 fpm. Nylon fasteners for quiet operation.

Premium—Max. velocity: 2250 fpm. Louvers reinforced with galvanized steel strip.

Optional Shutter Motor—Not for use with truss shutters. Relieves starting load on fan motor by automatically opening and closing shutter. 60 Hz, 120/240V. Overall dim.: 8½"H x 4½"W x 7½"D. Includes installation hardware.

Ceiling Shutter Cover—Insulated cover helps reduce energy costs by stopping air infiltration and reducing heating and cooling loss. Features easy hook-and-loop attachment, and a trim-to-fit design for a customized installation. White front and reflective foil back.

Fits Fan Dia.	L	W	Shutter Opening Required	Shutter Free Area	For Use With	Item No.
Premium Ceiling Shutters						
24"	26"	26"	24" x 24"	3.112 sq. ft.	24" Whole House Fans	**4C224**
30"	32"	32"	30" x 30"	4.652 sq. ft.	30" Whole House Fans	**4C225**
36"	35"	40"	33" x 38"	8.112 sq. ft.	36" Whole House Fans	**3HHR5**
36"	38"	38"	36" x 36"	7.293 sq. ft.	36" Whole House Fans	**4C228**
42"	44"	44"	42" x 42"	9.562 sq. ft.	42" Whole House Fans	**3C242**
48"	50"	50"	48" x 48"	13.224 sq. ft.	48" Whole House Fans	**3C243**
Optional Shutter Motor						
For Use with Dayton Premium Ceiling Shutters						**24N066**
Ceiling Shutter Cover, Attic Armour						
48"L x 48"W, Trim to Fit						**2NXJ9**

Gable Shutters

Dayton

- Max. velocity: 1500 fpm
- 1½" flange

Designed for use with gable-mounted power attic ventilators. Shutters are not for use with solar-powered, automatic gable-mount attic ventilators. Aluminum construction. Flush mount for easy installation. Automatically open when ventilator is running. Weather stripping on blades for positive seal when not in use. Tie rods on blades assure uniform opening while fan is operating.



No. 4YN20

Blade Material	Fits Fan Dia.	Shutter Overall Size	Shutter Opening Required	Shutter Free Area	Item No.
Mill Finish Aluminum	16"	19" x 19"	17" x 17"	1.402 sq. ft.	**3HHR1**
White Painted Aluminum	16"	19" x 19"	17" x 17"	1.402 sq. ft.	**4YN20**

How to Select Power Attic Ventilators

For proper attic ventilation, the Home Ventilation Institute recommends a system that provides at least 10 air exchanges per hour. Use the following formula to determine the fan capacity (cu. ft. per min., cfm) needed to provide this minimum airflow:

Attic Square Feet x 0.7 = cfm

Note: For roofs pitched 7/12 or higher, you may want to add 20% more cfm capacity to handle the larger volume of attic space; 30% more for roofs 11/12 and higher.



No. 10N201

Dayton BROAN

Automatic Roof-Mount Attic Ventilators

- **Motors: thermally protected, 120V/60 Hz**

Blend into most roof designs and save energy costs by circulating air, cooling the attic, and reducing overall air conditioner strain. UL Listed.

CFM @ 0.030" SP	Max. Attic Area (sq. ft.)	Free Air Intake Req. (sq. ft.)	Amps	HP	RPM	Dome Dia. (in.)	Dome Material	Thermostat Temp. (°F)	Brand	Mfr. Model	Item No.
Ventilators											
1400	2100	5	2.3	1/6	1500	24	Gray Zinc Plated Steel	60 to 120	Dayton	10N201	**10N201**
1400	2100	5	2.3	1/6	1500	24		60 to 120	Dayton	10N202	**10N202**
1200	1715	4.0	4.3	1/10	1050	23 1/4	Brown Paintable PVC Plastic	70 to 130	Broan	355BR	**4C568**

Thermostat Switch Type	Switch Action	Thermostat Control Range	Differential	H	W	D	Brand	Item No.
Attic Fan Thermostat/Humidistat								
2 SPST	Close on Rise	60° to 120°F	10°F	4 3/16"	6 1/4"	1 7/8"	Dayton	**10N203**

Dayton®—No. 10N202 has combination thermostat/humidistat control.

Broan®—Thermostat and motor are accessible from outside. Mesh screens keep birds out. Easily mount between rafters. Precision-balanced 14" metal blade, 3 7/8"H splash guard to keep out rain, and heavy-gauge metal flashing.

Attic Fan Thermostat/Humidistat—Automatically turns on ventilator when attic air reaches set temp. For use as a replacement with most power attic ventilators. Side mounts with 2 screw tabs.



No. 7F666



No. 7A040

Automatic Attic Exhaust Fans

Dayton

- **Motors: totally enclosed, 120V/60 Hz**
- **Thermostat: 90° to 130°F, 15°F fixed differential**

Thermostatically controlled fans are designed for fast, easy installation. Thermostat mounts on 2" x 4" conduit box. Guard-only No. 7F666, for gables with built-in shutters, has 12 15/16" O.C. mounting holes. UL and C-UL Listed.

Included with Ventilator	CFM @ 0.000" SP	CFM @ 0.125" SP	Max. Attic Area (sq. ft.)	Free Air Intake Req. (sq. ft.)	Amps	HP	RPM	Opening Req. (in.)	Item No.	
Guard, Thermostat	1060	585	1500	3.5	1.0	1/20	1550	18 3/8	**7F666**	*
Guard, Shutter, Thermostat	1095	720	1500	3.5	1.0	1/20	1550	16 3/4 X 16 3/4	**7F667**	
	800	470	1600	4.0	1.4	1/30	1550	13 x 13	**7A040**	
	1860	850	2300	5.5	1.3	1/15	1075	19 x 19	**7A041**	

** Opening Req.: 18-3/8" Dia.*



No. 10W195



No. 10W193

Automatic Gable-Mount Attic Ventilators

Dayton

- **120V/60 Hz**
- **Built-in adjustable thermostat**
- **Mounting brackets included**

Optional aluminum gable shutters sold separately on page 2967. For maximum efficiency, the shutter area should be greater than the outlet area of the ventilator.

Housing Material	CFM @ 0.000" SP	Max. Attic Area (sq. ft.)	Free Air Intake Req. (sq. ft.)	Amps	RPM	Optional Aluminum Gable Shutter, White Painted	Optional Aluminum Gable Shutter, Mill Finish	Opening Req. For Optional Aluminum Gable Shutter	VENTILATOR WITH THERMOSTAT Item No.	VENTILATOR WITH THERMOSTAT & HUMIDISTAT Item No.
Steel	1220	1630	4	3.1	1050				**10W193**	**10W198**
Plastic	1380	1900	4.4	3	1100				**10W196**	**10W201**
Steel	1650	2300	5.4	3.15	1100	4YN20	3HHR1	17"H x 17"W	**10W194**	—
Plastic	1650	2300	5.4	4	1100				**10W197**	**10W195**
Steel	1650	2300	5.4	4	1100				—	**10W199**



No. 2C531



No. 36WG74

EMPIRE Cool Attic

Wind-Driven Turbine Attic Ventilators

Optional adjustable base for No. 2C531 allows vertical mounting of ventilator on 0/12 to 7/12 pitch roofs. Includes 20" x 20" flashing for weatherproof installation.

Empire—Externally braced for strength and perfect alignment. Bronze, oil-impregnated top bearing. 4", 6", and 8" vents have a bottom thrust-type pivot bearing with a hardened steel ball riding in a hardened steel seat. 10" and larger vents use a bottom thrust-type ball bearing. Galvanized steel construction with aluminum bracing on 4" to 14" units; galvanized steel bracing on 16" to 24" units.

Throat Dia.	CFM @ 4 mph Wind	Brand	Mfr. Model	Item No.
Externally Braced Turbines				
4"	126	Empire	TV04G	**4C016**
6"	147	Empire	TV06G	**2C528**
8"	255	Empire	TV08G	**2C529**
10"	425	Empire	TV10G	**2C530**
12"	631	Cool Attic	CX12EBALMILUPS	**36WG73**
12"	631	Empire	TV12G	**2C531**
14"	700	Empire	TV14G	**2C532**
16"	950	Empire	TV16G	**2C533**
18"	1200	Empire	TV18G	**2C534**
20"	1700	Empire	TV20G	**2C802**
24"	2350	Empire	TV24G	**2C803**
Internally Braced Turbines				
12"	631	Cool Attic	CX12IBALMILUPS	**36WG74**
14"	700	Cool Attic	CX14IBALMILUPS	**36WG75**

Cool Attic®—Lightweight, designed for high winds, and are maintenance and noise free. Stainless steel ball bearings and premium aluminum construction for long life. No additional bases or external supports required. Models can adjust to a 12/12 pitch.

Description	Mfr. Model	Item No.
Accessories (Empire)		
Adjustable Roof Base, 6", For Use With 2C528	AB06G	**33MH61**
Adjustable Roof Base, 8", For Use With 2C529	AB08G	**33PM38**
Adjustable Roof Base, 10", For Use With 2C530	AB10G	**33PM39**
Adjustable Roof Base, 12", For Use with 2C531	AB12G	**4C505**
Flat Roof Base, 4", For Use With 4C016	FB04G	**33PM40**
Flat Roof Base, 6", For Use With 2C528	FB06G	**33PM41**
Flat Roof Base, 8", For Use With 2C529	FB08G	**33PM42**
Flat Roof Base, 10", For Use With 2C530	FB10G	**33PM43**
Flat Roof Base, 12", For Use With 2C531	FB12G	**33PM44**
Flat Roof Base, 14", For Use With 2C532	FB14G	**33MH59**
Flat Roof Base, 16", For Use With 2C533	FB16G	**33PM45**
Flat Roof Base, 18", For Use With 2C534	FB18G	**33MH58**
Flat Roof Base, 20", For Use With 2C802	FB20G	**33PM46**
Flat Roof Base, 24", For Use With 2C803	FB24G	**33MH60**
Bearing Repair Kit, 4" to 14" Turbines, For Use With 4C016, 2C528, 2C529, 2C530, 2C531, 2C532	3WAY	**33PM47**
Bearing Repair Kit, 16" to 20" Turbines, For Use With 2C533, 2C534, 2C802	4WAY20	**33PM48**
Bearing Repair Kit, 24" Turbines, For Use With 2C803	4WAY24	**33PM49**

Dayton® Commercial/Industrial-Duty Air Curtain Selection Guide

Because no single air curtain cabinet is 100"W, use 1 No. 6E822 (60") and 1 No. 6E824 (42") to span a 100"W opening. It is acceptable for cabinets to be slightly wider than the opening. Each cabinet requires a blower assembly.

Use Table A to determine the horsepower (HP) of the blower required for your air curtain cabinet. Blower HP is determined by mounting height, purpose of the air curtain (thermal barrier, etc.), and the wind speed that the air curtain is expected to neutralize.

For extreme conditions (gusty winds or heavy insect control), select a blower HP 1 size larger than what the table recommends. Indoor installations assume a wind speed of 5 mph, unless otherwise specified.

After selecting the HP for your application, use Table B to find the blower stock number that matches the available electrical power. See this page for complete electrical specifications for each blower. Air curtain overlap of door openings is acceptable.

Blower Selection Example

Assume a 10-ft.-high x 100"-wide opening into a walk-in cooler, and an available 120V, 1-phase electrical circuit to operate the air curtain.

In Table A, find **Walk-In Cooler**. In column labeled **10 ft.**, find ½ HP across from 5 mph wind speed (indoor installations assume 5 mph). Knowing that a ½-HP blower is required, use Table B to find 2 possibilities: No. 6E820 and 6E817. Select 2 No. 6E820 blower assemblies (120V, 1-phase), 1 for each cabinet.

Wind Speed (mph)	Thermal Barrier 8 ft.	Thermal Barrier 10 ft.	Insect Control 8 ft.	Insect Control 10 ft.	Walk-In Cooler 8 ft.	Walk-In Cooler 10 ft.	Walk-In Freezer 8 ft.	Walk-In Freezer 10 ft.
Table A: Determine Blower HP @ Mounting Height (ft.)								
5	1/10 to 1/8	½	½	¾	¼	½	½	¾
8	¼	½ to ¾	½	¾	—	—	—	—
12	—	—	¾	1	—	—	—	—
15	—	—	1	1½	—	—	—	—

HP	120V 1 Ph	208-230/460V 3 Ph
Table B: Determine Blower Model No.		
1/10	4HZ94 *	—
1/8	4YP01 *	—
1/8	4HZ95 *	—
1/8	4YP02 *	—
¼	6E821	—
½	6E820	6E817
1	—	6E816
1½	—	6E815

**** Complete air curtain; see below for specifications.***

Dayton

Commercial/Industrial-Duty Air Curtain Cabinets

Modular cabinets accept any of the blowers on this page, and may be mounted in series to accommodate openings from 3 to 12 ft. wide. A 96"-wide door, for example, would use two 48"-wide air curtains. A complete air curtain consists of 1 air curtain cabinet and 1 blower. ETL Listed.

Note: Find information on Air Curtains and Accessories at Grainger.com® and search for "air curtains".

W	H	D	Item No.
Air Curtain Cabinets - Painted Steel			
36"	15¾"	13"	6E826
38"			6E825
42"			6E824
48"			6E823
60"			6E822
Air Curtain Cabinets - Stainless Steel			
36"	15¾"	13"	4YN98
48"			4YN99



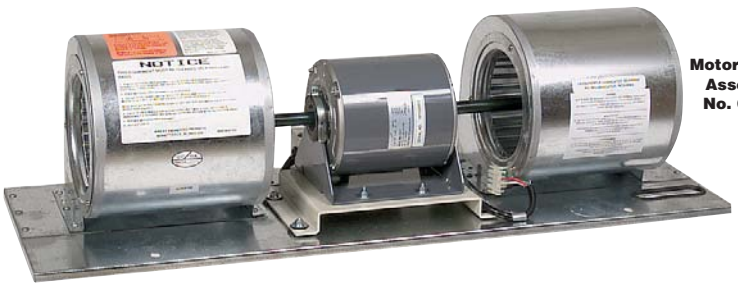
No. 6E825

Dayton

Blowers for Air Curtain Cabinets

Installation in air curtain cabinet requires no tools, just wing nuts and quick disconnect. All blowers fit Dayton® air curtain cabinets, Nos. 6E822 to 6E826, No. 4YN98, and No. 4YN99. Multiple use allowable with up to 3 cabinets in series. ETL Listed.

Note: Find information on Air Curtains and Accessories at Grainger.com® and search for "air curtains".



Motor/Blower Assembly No. 6E820

Motor HP	Air Velocity	Avg. CFM at Nozzle 36"	38"	42"	48"	60"	Max. Amps	Max. RPM	Max. Mount. Height	Voltage	Hz	Phase	Item No.
¼	4650 fpm	2025 cfm	2025 cfm	2360 cfm	2700 cfm	3375 cfm	3.4	1100	8 ft.	115	60	1	**6E821**
½	4850 fpm	3075 cfm	3250 cfm	3600 cfm	4100 cfm	5130 cfm	5.2	1745	10 ft.	115	60	1	**6E820**
½	3800 fpm	3075 cfm	3250 cfm	3600 cfm	4100 cfm	5130 cfm	1.5/0.75	1450	10 ft.	208-230/460	60	3	**6E817**
¾	4850 fpm	3930 cfm	4150 cfm	4585 cfm	5240 cfm	6550 cfm	7.8	1480	12 ft.	115	60	1	**6E819**
1	5250 fpm	3930 cfm	4150 cfm	4585 cfm	5240 cfm	6550 cfm	3.4/1.75	1725	12 ft.	208-230/460	60	3	**6E816**
1½	5900 fpm	4748 cfm	5050 cfm	5575 cfm	6375 cfm	7965 cfm	3.5/1.95	3450	14 ft.	208-230/460	60	3	**6E815**

Dayton

Compact and Drive-Through Window Air Curtains

- 120V
- Each unit is complete with blower

COMPACT

For transoms and other openings requiring a thermal barrier. Use up to 3 curtains in series for wider spans. Maximum distance from nozzle to floor is 8 ft. 120V 2-speed motor. 2-speed switch included. ETL Listed.

DRIVE-THROUGH WINDOW

Prevents entry of dust, fumes, and insects. Great for service windows 30" wide or less. Maximum distance from nozzle to counter is 5 ft. 120V single-speed totally enclosed motor. 3-prong grounded plug. ETL Listed.



No. 4YP01

Air Curtain Max. Door Width	Max. Mount. Height	W	H	D	Air Curtain Air Velocity	Air Curtain Air Volume	Motor HP	Max. Amps	Max. RPM	Item No.
Compact Low Profile Air Curtains										
3 ft.	8 ft.	36"	7⅜"	6¾"	1800/1350 fpm	1050/790 cfm	1/10	1.1	1700	**4HZ94**
3 ft. 6"	8 ft.	42"			1800/1350 fpm	1200/900 cfm	⅛	1.6	1600	**4YP01**
4 ft.	8 ft.	48"			1800/1350 fpm	1350/1010 cfm	⅛	1.6	1600	**4HZ95**
5 ft.	8 ft.	60"			1800/1350 fpm	1700/1280 cfm	⅛	1.9	1600	**4YP02**
Drive-Through Window Air Curtain										
2 ft.	5 ft.	25"	7⅜"	6¾"	1350 fpm	550 cfm	1/10	0.9	1700	**3KB43**


No. 6JGF3


No. 6JGF7


No. 6JGE3


No. 6JGT2

Air Curtains

Provide a sustainable solution that helps lower energy costs by eliminating untempered outside air from entering through open doors. A sanitary solution that deters flying insects from entering through open doors. Models use an invisible air barrier to protect the opening and are safer than plastic vinyl strip curtains.

Drive-Through Window, Unheated and Drive-Thru Window, Heated—Air curtains help reduce infiltration of fumes and insects, and maintain comfort at drive-up windows. UL and C-UL Listed for indoor use.
- Corded models

Low-Profile, NSF 37, Unheated and Low-Profile, 2-Speed, Heated—Help increase energy savings, comfort, and insect control. Heated models for front or rear entry doors; unheated units for rear entry doors. Heated models are UL and C-UL Listed for indoor use; unheated models are UL and C-UL Listed for indoor/outdoor use and UL-EPH Listed per NSF Standard 37.
- Hardwired

Multipurpose, NSF 37, Unheated and Multipurpose, 3-Speed, Heated—Provide energy savings, comfort, and insect control. Heated models for front or rear entry doors; unheated units for rear entry doors. AMCA Certified air performance. Heated models are UL and C-UL Listed for indoor use; unheated models are UL and C-UL Listed for indoor/outdoor use and UL-EPH Listed per NSF Standard 37.
- Hardwired

Multipurpose, High Velocity, Unheated—Block entry of wind and insects, and help increase energy savings and comfort. Ideal for shipping/receiving and loading dock doors. AMCA Certified air performance. UL and C-UL Listed for indoor use; UL listed for outdoor use.
- Hardwired

X = ITEM(S) INCLUDED WITH PURCHASE		Drive-Thru Window, Unheated & Drive-Thru Window, Heated	Low-Profile, Unheated, NSF 37 & Multipurpose, NSF 37, Unheated	Low-Profile, 2-Speed, Heated & Multipurpose, 3- Speed, Heated	Multipurpose, High Velocity, Unheated
6 Ft, 3 Prong Cord Factory Wired On/Off Switch	Universal Mounting Bracket	X			
Door Switch, Plunger Type (Line Voltage)			X		X
Transformer (Three Phase to 24V) Adjustable Time Delay	Magnetic Reed Door Switch (24V) Thermostat			X	
Factory Mounted / Wired Control Panel					X

Air Curtain Max. Door W	Air Curtain Max. Mount. H	Air Curtain Air Volume	Air Curtain dBA @ 10 ft.#	Heat kW	H	D	No. of Motors	Voltage	Max. Amps	Mfr. Model	Item No.	Voltage	Max. Amps	Mfr. Model	Item No.
Drive-Through Window, Unheated, 1-Phase															
1 ft. 6"	3 ft.	135 cfm	51	—	7"	7¾"	1	115	1.6	DTU03-1018AA	6JGF3	—	—	—	—
2 ft.	3 ft.	200 cfm	52	—	7"	7¾"	2	115	2.2	DTU03-2026AA	6JGF4	—	—	—	—
Drive-Through Window, Heated, 1-Phase															
1 ft. 6"	3 ft.	135 cfm	51	2	7"	7¾"	1	115	18.3	DTU03-1018EA	6JGF5	—	—	—	—
2 ft.	3 ft.	200 cfm	52	2	7"	7¾"	2	115	18.9	DTU03-2026EA	6JGF6	—	—	—	—
Low-Profile, NSF 37 , Unheated, 1-Phase															
3 ft.	7 ft.	1020 cfm	54	—	8½"	8"	1	115/208 to 240	3.4/1.7 to 1.7	SLC07-1036AC-G	6JGF7	—	—	—	—
3 ft. 6"	7 ft.	1188 cfm	54	—	8½"	8"	1	115/208 to 240	3.4/1.7 to 1.7	SLC07-1042AC-G	6JGF8	—	—	—	—
4 ft.	7 ft.	1360 cfm	54	—	8½"	8"	1	115/208 to 240	3.4/1.7 to 1.7	SLC07-1048AC-G	6JGF9	—	—	—	—
6 ft.	7 ft.	2031 cfm	54	—	8½"	8"	1	115/208 to 240	3.4/1.7 to 1.7	SLC07-1072AC-G	6JGG0	—	—	—	—
Low-Profile, 2-Speed, Heated, 1-Phase															
3 ft.	8 ft.	1005 cfm	54	7.5	8½"	13½"	1	208	37.8	CLC08-1036EB-075-G	48WL58	240	33.0	CLC08-1036EJ-075-G	48WL61
4 ft.	8 ft.	1340 cfm	54	8.1	8½"	13½"	1	208	40.6	CLC08-1048EB-081-G	48WL59	240	35.5	CLC08-1048EJ-081-G	48WL62
6 ft.	8 ft.	2010 cfm	54	8	8½"	13½"	1	208	40.2	CLC08-1072EB-080-G	48WL60	—	—	—	—
6 ft.	8 ft.	2010 cfm	54	11.2	8½"	13½"	1	—	—	—	—	240	48.4	CLC08-1072EJ-112-G	48WL63
Low-Profile, 2-Speed, Heated, 3-Phase															
3 ft.	8 ft.	1005 cfm	54	10	8½"	13½"	1	208	29.5	CLC08-1036EX-100-G	36WK02	460	12.9	CLC08-1036EZ-100-G	36WK05
4 ft.	8 ft.	1340 cfm	54	10.8	8½"	13½"	1	208	31.7	CLC08-1048EX-108-G	36WK03	460	13.9	CLC08-1048EZ-108-G	36WK06
6 ft.	8 ft.	2010 cfm	54	15	8½"	13½"	1	208	43.3	CLC08-1072EX-150-G	36WK04	460	18.9	CLC08-1072EZ-150-G	36WK07
Multipurpose, NSF 37, Unheated, 1-Phase															
3 ft.	7 ft.	1804 cfm	67	—	14¾"	14½"	1	115/208 to 240	7.5/3.8 to 3.8	SHD07-1036AC-P-G	6JGE3	—	—	—	—
3 ft. 6"	7 ft.	1784 cfm	67	—	14¾"	14¼"	1	115/208 to 240	7.5/3.8 to 3.8	SHD07-1042AC-P-G	6JGE4	—	—	—	—
4 ft.	7 ft.	1768 cfm	67	—	14¾"	14¼"	1	115/208 to 240	7.5/3.8 to 3.8	SHD07-1048AC-P-G	6JGE5	—	—	—	—
6 ft.	7 ft.	3608 cfm	69	—	14¾"	14¼"	2	115/208 to 240	15.0/7.6 to 7.6	SHD07-2072AC-P-G	6JGE6	—	—	—	—
Multipurpose, 3-speed, Heated, 3-Phase															
3 ft.	10 ft.	1812 cfm	67	10	14¾"	14¼"	1	208	31.3	CHD10-1036EX-100-3X-G	6JGE7	460	13.4	CHD10-1036EZ-100-3X-G	6JGF0
4 ft.	10 ft.	1882 cfm	67	10	14¾"	14¼"	1	208	31.3	CHD10-1048EX-100-3X-G	6JGE8	460	13.4	CHD10-1048EZ-100-3X-G	6JGF1
6 ft.	10 ft.	3624 cfm	69	15	14¾"	14¼"	2	208	51.4	CHD10-2072EX-160-3X-G	6JGE9	460	22	CHD10-2072EZ-160-3X-G	6JGF2
Multipurpose, High Velocity, 3-Speed, Heated, 1-Phase															
3 ft.	10 ft.	1687 cfm	67	8	14¾"	14¼"	1	208	42.0	CHD10-1036EB-080-3X-G	48WL64	240	36.8	CHD10-1036EJ-080-3X-G	48WL66
4 ft.	10 ft.	1718 cfm	67	8	14¾"	14¼"	1	208	42.0	CHD10-1048EB-080-3X-G	48WL65	240	36.8	CHD10-1048EJ-080-3X-G	48WL67
Multipurpose, High Velocity, Unheated, 1-Phase															
6 ft. 6"	10 ft.	3095 cfm	63	—	15"	18"	2	115	13.0	IDC12-2078AA-G	6JGG2	208/230	7.0/7.0	IDC12-2078ABJ-G	6JGH2
6 ft. 6"	14 ft.	4882 cfm	65	—	15"	18"	2	115	25.2	IDC14-2078AA-G	6JGN2	208/230	13.0/13.0	IDC14-2078ABJ-G	6JGP2
8 ft.	14 ft.	5070 cfm	65	—	15"	18"	2	115	25.2	IDC14-2096AA-G	6JGN4	208/230	13.0/13.0	IDC14-2096ABJ-G	6JGP4
8 ft.	10 ft.	4332 cfm	66	—	15"	18"	3	115	19.5	IDC12-3096AA-G	6JGG5	208/230	10.5/10.5	IDC12-3096ABJ-G	6JGH5
8 ft.	14 ft.	6865 cfm	69	—	15"	18"	3	115	37.8	IDC14-3096AA-G	6JGN5	208/230	19.5/19.5	IDC14-3096ABJ-G	6JGP5
9 ft.	10 ft.	4536 cfm	66	—	15"	18"	3	115	19.5	IDC12-3108AA-G	6JGG6	208/230	10.5/10.5	IDC12-3108ABJ-G	6JGH6
9 ft.	14 ft.	7188 cfm	69	—	15"	18"	3	115	37.8	IDC14-3108AA-G	6JGN6	208/230	19.5/19.5	IDC14-3108ABJ-G	6JGP6
10 ft.	10 ft.	4678 cfm	66	—	15"	18"	3	115	19.5	IDC12-3120AA-G	6JGG7	208/230	10.5/10.5	IDC12-3120ABJ-G	6JGH7
10 ft.	14 ft.	7368 cfm	69	—	15"	18"	3	115	37.8	IDC14-3120AA-G	6JGN7	208/230	19.5/19.5	IDC14-3120ABJ-G	6JGP7
11 ft.	10 ft.	4760 cfm	66	—	15"	18"	3	115	19.5	IDC12-3132AA-G	6JGG8	208/230	10.5/10.5	IDC12-3132ABJ-G	6JGH8
11 ft.	14 ft.	7507 cfm	69	—	15"	18"	3	115	37.8	IDC14-3132AA-G	6JGN8	208/230	19.5/19.5	IDC14-3132ABJ-G	6JGP8
12 ft.	10 ft.	4782 cfm	66	—	15"	18"	3	115	19.5	IDC12-3144AA-G	6JGG9	208/230	10.5/10.5	IDC12-3144ABJ-G	6JGH9
12 ft.	14 ft.	7605 cfm	69	—	15"	18"	3	115	37.8	IDC14-3144AA-G	6JGN9	208/230	19.5/19.5	IDC14-3144ABJ-G	6JGP9
12 ft.	10 ft.	6048 cfm	69	—	15"	18"	4	115	26.0	IDC12-4144AA-G	6JGH0	208/230	14.0/14.0	IDC12-4144ABJ-G	6JGJ0
12 ft.	14 ft.	9584 cfm	72	—	15"	18"	4	115	50.4	IDC14-4144AA-G	6JGP0	208/230	26.0/26.0	IDC14-4144ABJ-G	6JGR0
Multipurpose, High Velocity, Unheated, 3-Phase															
6 ft. 6"	10 ft.	3095 cfm	63	—	15"	18"	2	208/230	7.0/7.0	IDC12-2078AXY-G	6JGK2	460	2.8	IDC12-2078AZ-G	6JGJ2
6 ft. 6"	14 ft.	4882 cfm	65	—	15"	18"	2	208/230	13.0/13.0	IDC14-2078AXY-G	6JGT2	460	6.4	IDC14-2078AZ-G	6JGR2
8 ft.	10 ft.	3188 cfm	63	—	15"	18"	2	208/230	7.0/7.0	IDC12-2096AXY-G	6JGK4	460	2.8	IDC12-2096AZ-G	6JGJ4
8 ft.	14 ft.	5070 cfm	65	—	15"	18"	2	208/230	13.0/13.0	IDC14-2096AXY-G	6JGT4	460	6.4	IDC14-2096AZ-G	6JGR4
8 ft.	10 ft.	4332 cfm	66	—	15"	18"	3	208/230	10.5/10.5	IDC12-3096AXY-G	6JGK5	460	4.2	IDC12-3096AZ-G	6JGJ5
8 ft.	14 ft.	6865 cfm	69	—	15"	18"	3	208/230	19.5/19.5	IDC14-3096AXY-G	6JGT5	480	6.4	IDC14-3096AZ-G	6JGR5
9 ft.	10 ft.	4536 cfm	66	—	15"	18"	3	208/230	10.5/10.5	IDC12-3108AXY-G	6JGK6	460	4.2	IDC12-3108AZ-G	6JGJ6
9 ft.	14 ft.	7188 cfm	69	—	15"	18"	3	208/230	19.5/19.5	IDC14-3108AXY-G	6JGT6	460	9.6	IDC14-3108AZ-G	6JGR6
10 ft.	10 ft.	4678 cfm	66	—	15"	18"	3	208/230	10.5/10.5	IDC12-3120AXY-G	6JGK7	460	4.2	IDC12-3120AZ-G	6JGJ7
10 ft.	14 ft.	7368 cfm	69	—	15"	18"	3	208/230	19.5/19.5	IDC14-3120AXY-G	6JGT7	460	9.6	IDC14-3120AZ-G	6JGR7
11 ft.	10 ft.	4760 cfm	66	—	15"	18"	3	208/230	10.5/10.5	IDC12-3132AXY-G	6JGK8	460	4.2	IDC12-3132AZ-G	6JGJ8
11 ft.	14 ft.	7507 cfm	69	—	15"	18"	3	208/230	19.5/19.5	IDC14-3132AXY-G	6JGT8	460	9.6	IDC14-3132AZ-G	6JGR8
12 ft.	10 ft.	4782 cfm	66	—	15"	18"	3	208/230	10.5/10.5	IDC12-3144AXY-G	6JGK9	460	4.2	IDC12-3144AZ-G	6JGJ9
12 ft.	14 ft.	9584 cfm	72	—	15"	18"	4	208/230	26.0/26.0	IDC14-4144AXY-G	6JGU0	460	12.8	IDC14-4144AZ-G	6JGT0

dBA is measured in free air 10 ft. from the nozzle.

Air Curtains

- Hardwired unless specified
- Require field-supplied hardware
- 5-yr. manufacturer's warranty for unheated units, 18 months for heated units
- ETL and C-ETL Listed



No. 32V336

Heated and unheated models help cut utility bills, keep the environment clean, and deter dust, flying insects, and pollutants. Rugged construction, easy to install, and have a manufacturer's warranty. The air curtain design provides consistent performance, maintains consistent temperatures, and reduces loss of conditioned air. Offer greater efficiency compared to plastic strip curtains.

LOW PROFILE, LPV2 SERIES

- 115V models have 3-prong grounded plug; all others are hardwired
- Mounting plate included
- LPV2 models include variable speed control

Sleek, quiet, compact, 1/6 HP design for front entry doors and drive-through windows.

Heated models help you create a more comfortable work area by providing a warm protective barrier over openings exposed to low ambient temperatures. NSF 37 models are ideal for food preparation areas and are sanitation-certified for heights up to 7 ft. per NSF Sanitation/ANSI 37 standard. Models greater than 72" are double units joined with a 2" mounting bracket and must be center supported.



Multipurpose, Recessed
No. 10N078

MULTIPURPOSE

- STD2, N2, NH2, HV2 unheated models are AMCA rated

Heated models provide a comfortable work area with warm protective barrier over openings exposed to low ambient temperatures. Feature durable energy-saving performance and fasten to a wall on both ends without intermediate support. Three-phase models require a motor control panel, sold separately. NSF 37 models are ideal for protecting food preparation areas and are sanitation-certified for heights up to 7 ft. NSF filters available on Grainger.com®. Heated models and 3-phase models are ETL and C-ETL Listed.

Recessed—Mount in ceiling. Minimal equipment visibility. Recessed housing enclosed.

CONTROL PANELS AND DOOR LIMIT SWITCHES

Required Motor Control Panels for 3-Phase Air Curtains—HOA switch included with panel. Auto mode requires optional door limit switch No. 2CLA2 (UL, NEMA 1) to provide automatic On/Off as door opens/closes, sold separately on Grainger.com®.

- Control panels have NEMA 1 enclosure

Air Curtain Max. Door W	Max. Mounting H	Air Curtain Air Volume	Air Curtain dBA @ 10 ft.#	No. of Motors	Voltage	Max. Amps	Req. Motor Control Panel	Mfr. Model	Item No.	Voltage	Max. Amps	Req. Motor Control Panel	Mfr. Model	Item No.
Low Profile, 1-Phase														
2 ft	8 ft	625 cfm	49	1	115	2.4	—	LPV225-1UA-OB	**45C649**	—	—	—	—	—
3 ft	8 ft	900 cfm	49	1	115	2.4	—	LPV236-1UA-OB	**32V338**	208/230	1.2/1.2	—	LPV236-1UD-OB	**32V339**
3.5 ft	8 ft	1050 cfm	50	1	115	2.4	—	LPV242-1UA-OB	**32V342**	208/230	1.2/1.2	—	LPV242-1UD-OB	**32V343**
4 ft	8 ft	1200 cfm	52	1	115	2.4	—	LPV248-1UA-OB	**32V346**	208/230	1.2/1.2	—	LPV248-1UD-OB	**32V347**
5 ft	8 ft	1500 cfm	53	1	115	2.6	—	LPV260-1UA-OB	**32V350**	208/230	1.4/1.4	—	LPV260-1UD-OB	**32V351**
6 ft	8 ft	1800 cfm	53	1	115	2.6	—	LPV272-1UA-OB	**32V354**	208/230	1.4/1.4	—	LPV272-1UD-OB	**32V355**
Low Profile, Heated, 1-Phase														
3 ft	8 ft	900 cfm	49	1	208	30.5	—	LPV236-1EBC-OB	**32V336**	230	27.7	—	LPV236-1ECC-OB	**32V337**
3.5 ft	8 ft	1050 cfm	50	1	208	39.7	—	LPV242-1EBD-OB	**32V340**	230	36	—	LPV242-1ECD-OB	**32V341**
4 ft	8 ft	1200 cfm	52	1	208	39.7	—	LPV248-1EBD-OB	**32V344**	230	36	—	LPV248-1ECD-OB	**32V345**
5 ft	8 ft	1500 cfm	53	1	208	47.1	—	LPV260-1EBF-OB	**32V348**	230	42.7	—	LPV260-1ECF-OB	**32V349**
6 ft	8 ft	1800 cfm	53	1	208	47.1	—	LPV272-1EBF-OB	**32V352**	230	42.7	—	LPV272-1ECF-OB	**32V353**
Low Profile, NSF 37, 1-Phase														
3 ft	7 ft	900 cfm	49	1	115	2.4	—	LPN236-1UA-OB	**45C645**	208/230	1.2	—	LPN236-1UD-OB	**20KD35**
3.5 ft	7 ft	1050 cfm	50	1	115	2.4	—	LPN242-1UA-OB	**45C646**	208/230	1.2	—	LPN242-1UD-OB	**20KD37**
4 ft	7 ft	1200 cfm	52	1	115	2.4	—	LPN248-1UA-OB	**45C647**	208/230	1.2	—	LPN248-1UD-OB	**20KD39**
5 ft	7 ft	1500 cfm	53	1	115	2.6	—	LPN260-1UA-OB	**20KD41**	208/230	1.4	—	LPN260-1UD-OB	**20KD42**
6 ft	7 ft	1800 cfm	53	1	115	2.6	—	LPN272-1UA-OB	**45C648**	208/230	1.4	—	LPN272-1UD-OB	**20KD44**
7 ft	7 ft	2100 cfm	53	2	115	4.8	—	LPN284-2UA-OB	**35YU56**	208/230	2.4/2.4	—	LPN284-2UD-OB	**35YU57**
8 ft	7 ft	2400 cfm	53	2	115	4.8	—	LPN296-2UA-OB	**35YU58**	208/230	2.4/2.4	—	LPN296-2UD-OB	**35YU59**
9 ft	7 ft	2700 cfm	54	2	115	5.0	—	LPN2108-2UA-OB	**35YU60**	208/230	2.6/2.6	—	LPN2108-2UD-OB	**35YU61**
10 ft	7 ft	3000 cfm	54	2	115	5.2	—	LPN2120-2UA-OB	**35YU62**	208/230	2.8/2.8	—	LPN2120-2UD-OB	**35YU63**
12 ft	7 ft	3600 cfm	54	2	115	5.2	—	LPN2144-2UA-OB	**35YU64**	208/230	2.8/2.8	—	LPN2144-2UD-OB	**35YU65**
Multipurpose, 1-Phase														
3 ft	10 ft	1379 cfm	66	1	115	5.1	—	STD236-1UA-OB	**32V362**	208/230	2.5/2.5	—	STD236-1UD-OB	**32V363**
3.5 ft	10 ft	1418 cfm	66	1	115	5.1	—	STD242-1UA-OB	**32V366**	208/230	2.5/2.5	—	STD242-1UD-OB	**32V367**
4 ft	10 ft	1442 cfm	66	1	115	5.1	—	STD248-1UA-OB	**32V370**	208/230	2.5/2.5	—	STD248-1UD-OB	**32V371**
6 ft	10 ft	2758 cfm	68	2	115	5.0	—	STD272-2UA-OB	**32V378**	208/230	5.0/5.0	—	STD272-2UD-OB	**32V379**
Multipurpose, Heated, 1-Phase														
3 ft	10 ft	1379 cfm	66	1	208	31.3	—	STD236-1EBB-OB	**32V360**	230	28.6	—	STD236-1ECB-OB	**32V361**
3.5 ft	10 ft	1418 cfm	66	1	208	31.3	—	STD242-1EBB-OB	**32V364**	230	28.6	—	STD242-1ECB-OB	**32V365**
4 ft	10 ft	1442 cfm	66	1	208	31.3	—	STD248-1EBB-OB	**32V368**	230	28.6	—	STD248-1ECB-OB	**32V369**
Multipurpose Heated, 3-Phase														
6 ft	10 ft	2758 cfm	68	2	208	71.6	Included	STD272-2EEN-OB	**32V376**	230	65.2	Included	STD272-2EFN-OB	**32V377**
Multipurpose, NSF 37, 1-Phase														
3 ft	7 ft	1379 cfm	66	1	115	5.1	—	N236-1UA-OB	**32V356**	—	—	—	—	—
3.5 ft	7 ft	2654 cfm	70	1	115	9	—	NH242-1UA-TS	**32V358**	—	—	—	—	—
4 ft	7 ft	1442 cfm	66	1	115	5.1	—	N248-1UA-OB	**32V357**	—	—	—	—	—
4 ft	7 ft	2447 cfm	70	1	115	9	—	NH248-1UA-TS	**32V359**	—	—	—	—	—
Multipurpose, Recessed, 1-Phase														
3 ft	10 ft	1460 cfm	66	1	115	5.1	—	PH1036-1UA-PW	**10N078**	208/230	2.5	—	PH1036-1UD-PW	**10N083**
3.5 ft	10 ft	1580 cfm	66	1	115	5.1	—	PH1042-1UA-PW	**10N079**	208/230	2.5	—	PH1042-1UD-PW	**10N084**
4 ft	10 ft	1632 cfm	66	1	115	5.1	—	PH1048-1UA-PW	**10N080**	208/230	2.5	—	PH1048-1UD-PW	**10N085**
6 ft	10 ft	2920 cfm	68	2	115	10.2	—	PH1072-2UA-PW	**10N082**	208/230	5.0	—	PH1072-2UD-PW	**10N087**
Multipurpose, Recessed, Heated, 3-Phase														
3 ft	10 ft	1460 cfm	66	1	—	—	—	—	—	230	32.6	Included	PH1036-1EFH-PW	**10N088**
3.5 ft	10 ft	1580 cfm	66	1	—	—	—	—	—	230	32.6	Included	PH1042-1EFH-PW	**10N089**
4 ft	10 ft	1632 cfm	66	1	—	—	—	—	—	230	32.6	Included	PH1048-1EFH-PW	**10N090**
6 ft	10 ft	2920 cfm	68	2	—	—	—	—	—	230	65.2	Included	PH1072-2EFN-PW	**10N092**
Multipurpose, 3-Phase														
4 ft	12 ft	2447 cfm	70	1	208/230	3.3/3.2	32V380	HV248-1UG-TS	**32V323**	460	1.6	32V381	HV248-1UH-TS	**32V324**
5 ft	12 ft	2760 cfm	70	1	208/230	3.3/3.2	32V380	HV260-1UG-TS	**32V327**	460	1.6	32V381	HV260-1UH-TS	**32V328**
6 ft	12 ft	3584 cfm	73	2	208/230	6.6/6.4	32V382	HV272-2UG-TS	**32V329**	460	3.2	32V384	HV272-2UH-TS	**32V330**
7 ft	12 ft	8000 cfm	73	2	208/230	6.6/6.4	32V382	HV284-2UG-TS	**32V331**	460	3.2	32V384	HV284-2UH-TS	**32V332**
8 ft	12 ft	4894 cfm	73	2	208/230	6.6/6.4	32V382	HV296-2UG-TS	**32V333**	460	3.2	32V384	HV296-2UH-TS	**32V334**
8 ft	16 ft	9600 cfm	79	2	208/230	16.6/15.2	32V383	EP296-2UG-TS	**32V315**	460	7.6	32V385	EP296-2UH-TS	**32V316**
10 ft	12 ft	6693 cfm	75	3	208/230	9.9/9.6	32V388	HV2120-3UG-TS	**32V317**	460	4.8	32V386	HV2120-3UH-TS	**32V318**
10 ft	16 ft	14,400 cfm	81	3	208/230	24.9/22.8	32V389	EP2120-3UG-TS	**32V309**	460	11.4	32V387	EP2120-3UH-TS	**32V310**
12 ft	12 ft	7341 cfm	75	3	208/230	9.9/9.6	32V388	HV2144-3UG-TS	**32V319**	460	4.8	32V387	HV2144-3UH-TS	**32V320**
12 ft	16 ft	14,400 cfm	81	3	208/230	24.9/22.8	32V389	EP2144-3UG-TS	**32V311**	460	11.4	32V387	EP2144-3UH-TS	**32V312**

dBA is measured at 10 ft. from the nozzle in an open field. STD2, PH10, N2, NH2, and HV2 are CFM ratings shown and are based on tests and procedures performed in accordance with AMCA Publication 211.



Blower w/ No Mounting Flange, No. 1TDP4



Blower w/ Mounting Flange, No. 1TDR3



Double Blower with Mounting Flange, No. 1TDP8

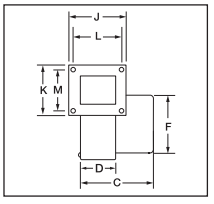
30 to 312 CFM PSC, Shaded Pole, and DC Blowers, Rectangular Outlet

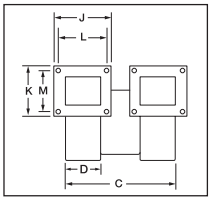
- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F
- Motor enclosure: open

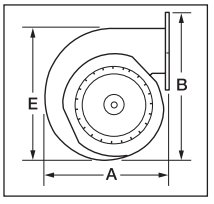
Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain CFM at higher static pressures. Motors have cast-aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life. All blowers are CE Certified and RoHS compliant. All motors (not blowers) are UL and C-UL Recognized (E47479), except Nos. 2C646, 3FRG7, 3FRG8, and 3HMH7 are not UL or C-UL Recognized.

Note: Not for use with speed controllers.

CFM Air Delivery @ Static Pressure Shown						Blower Motor Type	Blower Voltage	Phase	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	Replaces	Item No.
0.000"	0.100"	0.200"	0.300"	0.400"	0.500"										
Rectangular Outlet with No Mounting Flange															
71	70	64	50	37	—	Permanent Split Capacitor	115VAC	1	0.50	50/60	Auto	Ball	No	2C067	**1TDP4**
168	156	144	130	118	55	Permanent Split Capacitor	230VAC	1	0.35	50/60	Auto	Ball	Yes	2C916	**1TDR1**
174	162	152	134	118	95	Permanent Split Capacitor	115VAC	1	0.60	50/60	Auto	Ball	Yes	1C982	**1TDP9**
229	220	213	205	198	184	Permanent Split Capacitor	115VAC	1	1.05	50/60	Auto	Ball	No	4C754	**1TDR2**
271	255	235	210	183	135	Permanent Split Capacitor	230VAC	1	0.43	50/60	Auto	Ball	Yes	1TDR4	**45NM97**
273	245	230	210	183	135	Permanent Split Capacitor	115VAC	1	0.77	50/60	Auto	Ball	Yes	1TDR3	**45NM96**
Rectangular Outlet with Mounting Flange															
30	25	21	16.5	3	—	Shaded Pole	115VAC	1	0.51	60	Auto	Ball	No	4C760	**1TDN3**
49	46	44	39	30	13	Shaded Pole	115VAC	1	0.50	60	Auto	Ball	No	4C761	**1TDN4**
53	52	50	47	41	23	Permanent Split Capacitor	115VAC	1	0.30	50/60	Auto	Ball	No	4C012	**1TDN5**
75	72	66	62	56	44	Shaded Pole	115VAC	1	0.50	60	Auto	Ball	No	4C762	**1TDN9**
89	85	78	74	66	58	Permanent Split Capacitor	115VAC	1	0.31	50/60	Auto	Ball	Yes	4C004	**1TDP1**
104	102	98	94	85	74	Shaded Pole	115VAC	1	1.25	60	Auto	Ball	No	4C763	**1TDP2**
133	128	126	119	112	105	Permanent Split Capacitor	230VAC	1	0.33	50/60	Auto	Ball	Yes	2C915	**1TDP6**
134	126	117	107	96	79	Permanent Split Capacitor	115VAC	1	0.63/0.55	50/60	Auto	Ball Bearing	No	—	**2C647**
146	140	126	124	120	110	Permanent Split Capacitor	115VAC	1	0.75	50/60	Auto	Ball	Yes	4C446	**1TDP7**
151	140	126	124	120	110	Permanent Split Capacitor	230VAC	1	0.35	50/60	Auto	Ball	Yes	—	**3FRF1**
149	140	126	124	120	110	DC	12VDC	1	5.50	—	No Thermal Protection	Ball	Yes	—	**3FRG8**
176	170	165	159	153	148	DC	12VDC	1	5.10	—	No Thermal Protection	Ball Bearing	No	—	**2C646**
273	245	230	210	183	135	Permanent Split Capacitor	115VAC	1	0.77	50/60	Auto	Ball	Yes	4C447	**1TDR3**
275	245	230	210	183	135	DC	12VDC	1	4.50	—	No Thermal Protection	Ball	Yes	—	**3HMH7**
271	255	235	210	183	135	Permanent Split Capacitor	230VAC	1	0.43	50/60	Auto	Ball	Yes	4C869	**1TDR4**
Square Outlet with Mounting Flange															
131	127	119	118	112	105	Permanent Split Capacitor	115VAC	1	0.65	50/60	Auto	Ball	Yes	4C442	**1TDP5**
139	127	119	118	112	105	DC	12VDC	1	3.90	—	No Thermal Protection	Ball	Yes	—	**3FRG7**
Double Blower, Rectangular Outlet with Mounting Flange															
184	178	170	158	140	120	Permanent Split Capacitor	115VAC	1	0.72	50/60	Auto	Ball	Yes	4C015	**1TDP8**
312	304	272	245	210	142	Permanent Split Capacitor	115VAC	1	0.76	50/60	Auto	Ball	Yes	2C069	**1TDR5**
0.000"	**0.500"**	**0.700"**	**0.900"**	**1.000"**	**1.200"**										
Rectangular Outlet with Mounting Flange (High Pressure)															
148	124	114	95	86	44	Permanent Split Capacitor	115VAC	1	0.75	50/60	Auto	Ball	Yes	4C006	**1TDR6**







Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	D	E	F	J	K	L	M
Rectangular Outlet with No Mounting Flange																
1TDP4	5 11/16"	1 7/8"	4 3/4"	2 15/16"	3 5/16"	13"	7 15/16"	10"	3 7/8"	3 3/8"	7 7/8"	3 5/16"	2 1/4"	—	—	—
1TDR1	5 3/16"	1 7/8"	4 3/4"	2 7/8"	3 3/16"	13"	7 15/16"	10"	6 1/2"	3 3/8"	7 15/16"	3 5/16"	2 1/4"	—	—	—
1TDP9	5 3/16"	1 7/8"	4 3/4"	2 7/8"	3 5/16"	13"	7 15/16"	10"	6 1/2"	3 3/8"	7 15/16"	3 5/16"	2 1/4"	—	—	—
1TDR2	7"	1 7/8"	5 3/8"	4 3/16"	2 1/2"	13"	10 5/16"	10"	4"	2 5/8"	11 1/16"	3 3/8"	2 1/4"	—	—	—
45NM97	5 1/8"	1 7/8"	4 9/16"	3 7/16"	4"	13"	8 7/8"	—	7 9/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	—	4 7/8"	4 3/8"
45NM96	5 1/8"	1 7/8"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	—	7 11/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	—	4 7/8"	4 3/8"
Rectangular Outlet with Mounting Flange																
1TDN3	2 15/16"	1 7/8"	2 9/16"	1 5/8"	1 9/16"	13"	4 1/2"	5 3/8"	3 1/2"	1 5/8"	4 5/8"	2 1/2"	2 15/16"	3 1/16"	2 5/16"	2 7/16"
1TDN4	2 15/16"	1 7/8"	2 9/16"	1 5/8"	2"	13"	4 1/2"	5 5/16"	4 3/16"	2 1/8"	4 11/16"	2 1/2"	3 7/16"	3 1/8"	2 13/16"	2 7/16"
1TDN5	2 15/16"	1 7/8"	2 9/16"	1 5/8"	2"	13"	4 1/2"	5 5/16"	4 11/16"	2 1/8"	4 5/8"	3 5/16"	3 7/16"	3 1/8"	2 13/16"	2 7/16"
1TDN9	2 15/16"	1 7/8"	2 5/8"	2 1/8"	2 11/16"	13"	5 5/16"	6 5/16"	5 1/16"	2 3/4"	5 11/16"	2 1/2"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP1	3"	1 7/8"	2 5/8"	2 3/16"	2 11/16"	13"	5 3/8"	6 5/16"	5 3/8"	2 3/4"	5 11/16"	3 5/16"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP2	3 15/16"	1 7/8"	3 1/8"	2 1/8"	2 11/16"	13"	5 5/16"	6 3/8"	5 7/8"	2 11/16"	5 11/16"	2 1/2"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP6	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 9/16"	13"	6 9/16"	7 1/4"	5 5/8"	2 5/8"	6 9/16"	3 5/16"	5 1/8"	4"	4 1/8"	1 1/2"
2C647	5 1/4"	2 1/2"	4 1/2"	3 1/8"	3"	21"	7 7/16"	8"	5 5/16"	3 1/8"	8"	3 5/16"	4 5/8"	3 1/8"	3 15/16"	2 3/8"
1TDP7	3 15/16"	1 7/8"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	6 5/16"	3 5/16"	5 3/4"	3 5/16"	4 5/8"	3 1/2"	4"	2 7/8"
3FRF1	3 15/16"	1 7/8"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	6 5/16"	3 5/16"	5 3/4"	3 5/16"	4 5/8"	3 1/2"	4"	2 7/8"
3FRG8	3 15/16"	1 7/8"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	8 3/4"	3 5/16"	5 3/4"	3 1/8"	5 5/8"	3 1/2"	4"	2 7/8"
2C646	5 1/4"	2 1/2"	4 1/2"	3 1/8"	3"	37"	7 7/16"	8"	5 11/16"	3 1/8"	—	3"	4 5/8"	3 1/8"	3 15/16"	2 3/8"
1TDR3	5 1/8"	3 11/32"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	10 7/16"	7 11/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	5"	4 7/8"	4 3/8"
3HMH7	5 1/8"	3"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	10 7/16"	8 1/2"	4 1/4"	9 7/8"	3 1/8"	5 1/2"	5"	4 7/8"	4 3/8"
1TDR4	5 1/8"	3 11/32"	4 9/16"	3 7/16"	4"	13"	8 7/8"	10 7/16"	7 9/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	5"	4 7/8"	4 3/8"
Square Outlet with Mounting Flange																
1TDP5	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 1/2"	13"	6 9/16"	7 1/4"	5 5/8"	2 5/8"	6 9/16"	3 5/16"	5 1/8"	4"	4 1/8"	1 1/2"
3FRG7	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 1/2"	13"	6 9/16"	7 1/4"	6 5/16"	2 5/8"	6 9/16"	3 1/8"	5 1/8"	4"	4 1/16"	1 1/2"
Double Blower, Rectangular Outlet with Mounting Flange																
1TDP8	2 15/16"	1 7/8"	2 5/8"	2 1/8"	2 11/16"	13"	5 3/8"	6 3/8"	8 1/16"	2 3/4"	6 3/8"	3 5/16"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDR5	5 3/16"	1 7/8"	4 5/8"	3 1/8"	3 1/4"	13"	8 1/16"	8 5/8"	11"	3 7/16"	7 7/8"	3 5/16"	4 3/4"	4 3/4"	4 1/8"	1 1/2"
Rectangular Outlet with Mounting Flange (High Pressure)																
1TDR6	4 3/16"	1 7/8"	3 3/4"	2 5/8"	2 15/16"	13"	7 1/8"	8 1/4"	6"	3"	7 5/8"	3 5/16"	4 7/16"	4 1/16"	3 3/4"	3 3/8"



Round Outlet with No Mounting Flange, No. 1TDN6



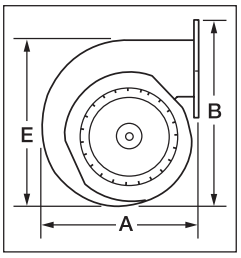
Round Outlet with Mounting Flange, No. 1TDN1



Round Outlet with Mounting Flange, No. 1TDN8



Round Outlet with Mounting Flange, No. 1TDP3

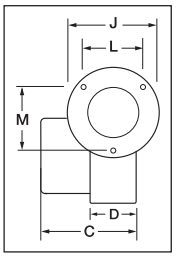


12 to 79 CFM PSC, Shaded Pole, and DC Blowers, Round Outlet

Dayton®

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F
- Motor enclosure: open

Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain CFM at higher static pressures. Motors have cast-aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life. All blowers are CE Certified and RoHS compliant. All motors (not blowers) are UL and C-UL Recognized (E47479), except Nos. 3FRG5 and 3FRG6 are not UL or C-UL Recognized. Note: Not for use with speed controllers.



CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Motor Type	Blower Voltage	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	Replaces	Item No.
Round Outlet with No Mounting Flange														
51	48	43	39	34	23	Permanent Split Capacitor	115V AC	0.23	50/60	Auto	Ball	Yes	4C441	**1TDN6**
Round Outlet with Mounting Flange														
12	9	6	—	—	—	Permanent Split Capacitor	115V AC	0.08	50/60	Auto	Ball	No	2C782	**1TDN2**
13	9.3	—	—	—	—	Shaded Pole	115V AC	0.29	60	Auto	Ball	No	4C759	**1TDN1**
49	47	41	37	32	17	Permanent Split Capacitor	230V AC	0.11	50/60	Auto	Ball	Yes	2C914	**1TDN8**
50	48	44	39	32	18	Permanent Split Capacitor	115V AC	0.23	50/60	Auto	Ball	Yes	4C440	**1TDN7**
57	48	44	39	32	18	DC	12V DC	1.50	—	No Thermal Protection	Ball	Yes	—	**3FRG5**
75	71	68	66	61	56	Permanent Split Capacitor	115V AC	0.45	50/60	Auto	Ball	Yes	4C443	**1TDP3**
72	71	68	66	61	56	Permanent Split Capacitor	230V AC	0.18	50/60	Auto	Ball	Yes	—	**3FRE9**
79	71	68	66	61	56	DC	12V DC	2.80	—	No Thermal Protection	Ball	Yes	—	**3FRG6**

Item No.	Blower Wheel Diameter	Blower Wheel Width	Outlet Dia.	Inlet Dia.	Lead Length	Dimensions A	B	C	D	E	J	L	M
Round Outlet with No Mounting Flange													
1TDN6	3 in	1 ⅞ in	2 ⅛ in	2 ⅜ in	13 in	6 7⁄16 in	10 in	5 ¼ in	2 ¼ in	5 13⁄16 in	2 ¼ in	—	—
Round Outlet with Mounting Flange													
1TDN2	2 in	1 ⅞ in	1 ¼ in	1 ⅞ in	13 in	4 in	4 3⁄16 in	4 1⁄16 in	1 5⁄16 in	3 ⅞ in	2 ¼ in	1 5⁄8 in	1 7⁄16 in
1TDN1	2 in	1 ⅞ in	1 ¼ in	1 ⅞ in	13 in	4 in	4 ⅛ in	3 3⁄16 in	1 ⅜ in	3 ⅞ in	2 ¼ in	1 5⁄8 in	1 7⁄16 in
1TDN8	3 in	1 ⅞ in	2 ⅛ in	2 ⅜ in	13 in	6 7⁄16 in	6 9⁄16 in	5 1⁄16 in	2 ¼ in	5 13⁄16 in	4 1⁄16 in	2 ⅜ in	2 13⁄16 in
1TDN7	3 in	1 ⅞ in	2 ⅛ in	2 ⅜ in	13 in	6 7⁄16 in	6 ½ in	5 1⁄16 in	2 ¼ in	5 13⁄16 in	4 1⁄16 in	2 ⅜ in	2 13⁄16 in
3FRG5	3 in	1 ⅞ in	2 ⅛ in	2 ⅜ in	13"	6 7⁄16"	6½"	6 3⁄16"	2¼"	5 13⁄16"	4 1⁄16"	2⅜"	2 13⁄16"
1TDP3	3 15⁄16 in	1 ⅞ in	2 ⅛ in	3 ⅛ in	13 in	6 7⁄16 in	6 ½ in	6 ¼ in	2 ¼ in	5 ¾ in	4 1⁄16 in	2 ⅜ in	2 13⁄16 in
3FRE9	3 15⁄16 in	1 ⅞ in	2 ⅛ in	3 ⅛ in	13 in	6 7⁄16 in	6 ½ in	6 ¼ in	2 ¼ in	5 ¾ in	4 1⁄16 in	2 ⅜ in	2 13⁄16 in
3FRG6	3 15⁄16 in	1 ⅞ in	2 ⅛ in	3 ⅛ in	13 in	6 7⁄16 in	6 ½ in	6 ⅛ in	2 ¼ in	5 ¾ in	4 1⁄16 in	2 ⅜ in	2 13⁄16 in

Dayton®

High-Temperature PSC Blowers, Rectangular Outlet

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Continuous-duty operation
- Max. inlet air temp.: 450°F
- Max. ambient: 104°F
- Motor insulation: Class B

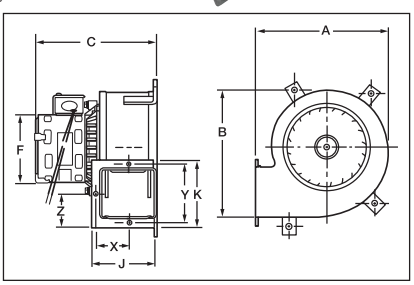
Externally mounted cooling fan (between motor and blower wheel) keeps motor cooler for a longer service life. Durable motor/blower design features ball bearings, cast-aluminum end shield, rolled steel body, and a steel cooling fan. Permanent split capacitor motor operates more efficiently than a comparably sized shaded pole motor. Blower housing has side mounting tabs and 3-sided mounting flange, except No. 1TDV1 has no outlet mounting flange. High-temperature flat black enamel finish. Excellent for general heating, cooling, ventilating, or component cooling. All blowers are CE Certified and RoHS compliant. All motors (not blowers) are UL and C-UL Recognized (E47479).



No. 1TDV1

CFM Air Delivery @ Static Pressure Shown 70°F (In.) 0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Voltage	Full Load Amps	Hz	Blower Thermal Protection	Blower Conduit Box	Replaces	Item No.
Rectangular Outlet with No Mounting Flange												
101	99	96	94	92	90	115VAC	0.52	50/60	Auto	Yes	4C723	**1TDV1**
Rectangular Outlet with Mounting Flange												
70	67	65	61	50	—	115VAC	0.30	50/60	Auto	Yes	4C940	**1TDU9**
129	123	119	112	105	91	115VAC	0.65	50/60	Auto	Yes	4C941	**1TDV2**
227	210	195	180	162	110	115VAC	0.58	50/60	Auto	Yes	4C942	**1TDV3**
227	210	195	180	162	110	230VAC	0.37	50/60	Auto	Yes	—	**3FRG3**
310	290	280	260	245	230	115VAC	0.86	50/60	Auto	Yes	4YJ33	**1TDV4**

Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	F	J	K	X	Y	Z
Rectangular Outlet with No Mounting Flange															
1TDV1	4⅜"	1⅞"	4¾"	2⅜"	1 1⁄16"	13"	7"	7⅜"	5⅛"	3⅜"	—	—	—	—	—
Rectangular Outlet with Mounting Flange															
1TDU9	2 15⁄16"	1⅞"	3⅜"	2⅛"	2 1⁄16"	13"	5 5⁄16"	5⅞"	6⅛"	3 5⁄16"	3 5⁄16"	3½"	2"	2⅞"	1¾"
1TDV2	3 1⁄16"	1⅞"	3 15⁄16"	2⅜"	3 5⁄16"	13"	5 5⁄16"	5⅞"	7⅛"	3 5⁄16"	3 15⁄16"	3½"	2"	2⅞"	1¾"
1TDV3	5⅛"	3 11⁄32"	5 5⁄16"	3 7⁄16"	3¾"	13"	8⅞"	9 7⁄16"	8⅝"	3 5⁄16"	4 7⁄16"	5"	2 3⁄16"	4⅜"	2½"
3FRG3	5⅛"	1⅞"	5 5⁄16"	3 7⁄16"	3¾"	13"	8⅞"	9 7⁄16"	8⅝"	3 5⁄16"	4 7⁄16"	5"	2 3⁄16"	4⅜"	2½"
1TDV4	6 3⁄16"	3"	6½"	4¼"	3 13⁄16"	13"	10⅜"	10"	8 11⁄16"	3 5⁄16"	4½"	5⅝"	2¼"	5"	2 13⁄16"



Note: Motor must be positioned in an area where temperature does not exceed 104°F. CFM values shown in the table below are representative of catalog specifications within a tolerance of ±15%.



Blower with No Mounting Flange, No. 1TDT5



Blower with Mounting Flange, No. 1TDR9



Blower with Mounting Flange, No. 1TDR7



Housing Supports

Dayton

OEM Specialty PSC and DC Blowers

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F

Powerful direct-drive blowers with forward-curve wheels provide economical air delivery for general heating, cooling, ventilating, or component cooling. Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain cfm at higher static pressures. Motors have cast aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life. Gray enamel finish.

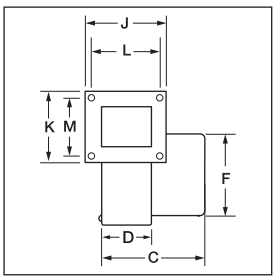
Blowers without outlet flange can use No. 5TCJ3 housing support for mounting. 2-speed blowers require No. 1DGZ9 2-speed switch (not included; see page 2929). All blowers are CE Certified and RoHS compliant. All motors (not blowers) are UL and C-UL Recognized (E47479), except Nos. 3HMH9, 3HMJ1, and 3HMJ2 are not UL or C-UL Recognized.

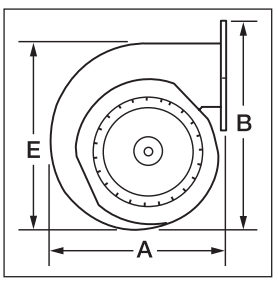
Note: Not for use with speed controllers.

PREPUNCHED METAL HOUSING SUPPORT

Enables base mounting Nos. 1TDT4, 1TDT5, 1TDT9, 1TDU1, and 1TDU2 for bottom horizontal, top horizontal, and upblast discharges. 12¾"L. Gray finish. Sold in pairs.

CFM Air Delivery @ Static Pressure Shown												OPEN DRIPPROOF MOTOR	
0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Voltage	Phase	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	Replaces	Item No.
Rectangular Outlet with No Mounting Flange														
551	538	510	500	480	450	12V DC	1	20	—	No Thermal Protection	Ball	Yes	—	**3HMJ2**
794	780	750	690	670	610	115/230V AC	1	2.75/1.45	50/60	Auto	Ball	Yes	4C668	**1TDT9**
805	770	730	685	645	605	115V AC	1	2.75	50/60	Auto	Ball	Yes	2C946	**1TDT4**
965	950	910	850	820	750	115V AC	1	3.50	50/60	Auto	Ball	Yes	4C054	**1TDT5**
990	960	940	875	825	775	115/230V AC	1	3.66/1.88	50/60	Auto	Ball	Yes	4C830	**1TDU1**
1202	1170	1150	1140	1120	1100	115/230V AC	1	7.30/3.70	60	Auto	Ball	Yes	4C831	**1TDU2**
Rectangular Outlet with Mounting Flange														
358	350	330	310	300	280	230V AC	1	0.54	50/60	Auto	Ball	Yes	2C917	**1TDR8**
409	395	387	378	365	353	12V DC	1	14.60	—	No Thermal Protection	Ball	Yes	—	**3HMH9**
458	430	383	338	263	140	230V AC	1	0.65	50/60	Auto	Ball	No	5C507	**1TDT1**
463	425	388	338	250	161	115V AC	1	1.28	50/60	Auto	Ball	No	4C448	**1TDR9**
485	475	448	425	398	375	115V AC	1	1.35	50/60	Auto	Ball	Yes	4C444 & 4YJ31	**1TDR7**
549	538	510	500	480	450	115V AC	1	2.05	50/60	Auto	Ball	Yes	4C445 & 4YJ32	**1TDT2**
552	490	462	426	392	358	12V DC	1	9.40	—	No Thermal Protection	Ball	No	—	**3HMJ1**
559	540	525	510	480	450	230V AC	1	0.98	50/60	Auto	Ball	Yes	4C870	**1TDT3**
2-Speed Rectangular Outlet with Mounting Flange														
428/293	405/290	370/285	330/260	225/188	150/130	115V AC	1	1.10/0.85	50/60	Auto	Ball	No	4C565	**1TDT6**
542/409	520/398	510/387	480/375	465/362	450/348	115V AC	1	2.00/1.54	50/60	Auto	Ball	Yes	4C566	**1TDT7**
797/549	780/546	730/536	720/532	680/518	640/504	115V AC	1	3.30/2.20	50/60	Auto	Ball	No	5C508	**1TDT8**
Blower Housing Supports														
Prepunched Metal Housing Supports for Nos. 1TDT4, 1TDT5, 1TDT9, 1TDU1, and 1TDU2													—	**5TCJ3**





Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	D	E	F	J	K	L	M
Rectangular Outlet with No Mounting Flange																
3HMJ2	6 ¼ in	1 ⅞ in	5 5/16 in	4 ¼ in	5 ¼ in	13 in	10 7/16 in	11 13/16 in	10 in	5 5/16 in	11 ⅛ in	3 ⅛ in	6 5/8 in	5 5/8 in	6 in	5 in
1TDT9	8 ¼ in	1 ⅞ in	7 in	5 9/16 in	6 3/16 in	13 in	13 ⅛ in	10 in	10 5/16 in	6 5/16 in	14 ⅞ in	5 in	2 ¼ in	—	—	—
1TDT4	8 ¼ in	1 ⅞ in	7 in	5 9/16 in	6 ⅛ in	13 in	13 ⅛ in	10 in	10 5/16 in	6 5/16 in	14 ⅞ in	5 1/16 in	2 ¼ in	—	—	—
1TDT5	8 5/8 in	1 ⅞ in	7 in	5 9/16 in	7 3/16 in	13 in	13 ⅛ in	10 in	11 5/16 in	7 5/16 in	14 ⅞ in	5 1/16 in	2 ¼ in	—	—	—
1TDU1	8 5/8 in	1 ⅞ in	7 in	5 9/16 in	7 3/16 in	13 in	13 ⅛ in	10 in	11 5/16 in	7 5/16 in	14 ⅞ in	5 in	2 ¼ in	—	—	—
1TDU2	8 ¼ in	1 ⅞ in	7 in	5 9/16 in	7 ⅛ in	13 in	13 ⅛ in	10 in	11 5/16 in	7 5/16 in	14 ⅞ in	5 9/16 in	2 ¼ in	—	—	—
Rectangular Outlet with Mounting Flange																
1TDR8	6 3/16 in	1 ⅞ in	5 5/16 in	4 ¼ in	3 13/16 in	13 in	10 7/16 in	11 ¾ in	7 5/8 in	4 in	11 ⅛ in	4 7/16 in	5 1/16 in	5 5/8 in	4 ½ in	5 in
3HMH9	6 3/16 in	3 in	5 5/16 in	4¼"	3 13/16"	13"	10 7/16"	11¾"	8"	3⅛"	11⅛"	3⅛"	5 1/16"	5⅝"	4½"	5"
1TDT1	5 ⅛ in	7 in	4 9/16 in	3 7/16 in	7 13/16 in	13 in	8 9/16 in	10 ½ in	9 ⅛ in	8 1/16 in	9 3/8 in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDR9	5 ⅛ in	7 in	4 9/16 in	3 ½ in	7 13/16 in	13 in	8 9/16 in	10 ½ in	9 3/16 in	8 3/16 in	9 3/8 in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDR7	6 3/16 in	1 ⅞ in	5 5/16 in	4 ¼ in	3 13/16 in	13 in	10 7/16 in	11 ¾ in	7 5/8 in	4 1/16 in	11 ⅛ in	4 7/16 in	5 1/16 in	5 5/8 in	4 ½ in	5 in
1TDT2	6 ¼ in	3 13/16 in	5 5/16 in	4 ¼ in	5 ¼ in	13 in	10 7/16 in	11 13/16 in	9 3/16 in	5 ½ in	11 ⅛ in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
3HMJ1	5 ⅛ in	7 in	4 9/16 in	3 ½ in	7 13/16 in	13 in	8 13/16 in	10 ½ in	9 3/16 in	8 3/16 in	9 ⅞ in	3 ⅛ in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDT3	6 ¼ in	1 ⅞ in	5 5/16 in	4 ¼ in	5 ¼ in	13 in	10 7/16 in	11 13/16 in	9 3/16 in	5 ½ in	11 ⅛ in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
2-Speed Rectangular Outlet with Mounting Flange																
1TDT6	5 ⅛ in	7 in	4 9/16 in	3 ½ in	7 13/16 in	13 in	8 ⅞ in	10 ½ in	9 ¼ in	8 3/16 in	9 ⅞ in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDT7	6 ¼ in	3 13/16 in	5 5/16 in	4 ¼ in	5 ¼ in	13 in	10 7/16 in	11 13/16 in	9 1/16 in	5 ½ in	11 ⅛ in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
1TDT8	6 5/16 in	6 ½ in	5 5/16 in	4 ¼ in	8 1/16 in	13 in	10 7/16 in	11 ¾ in	9 ¼ in	8 3/16 in	11 ⅛ in	3 5/16 in	9 3/8 in	5 5/8 in	8 ¾ in	5 in

Dayton

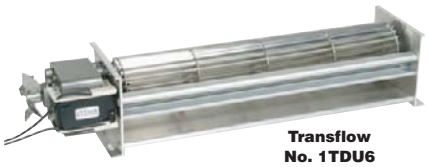
Transflow and Low-Profile Blowers

- All-position mounting
- Continuous-duty operation
- Min./max. operating temp. range: -20° to 104°F
- Motor insulation: Class B
- Automatic thermal protection

Blowers provide economical air delivery for general heating, cooling, ventilating, or component cooling. Designed to exhaust or ventilate cabinets, office machines, electronic equipment, corn stoves, pellet stoves, and fireplace inserts. All blowers are CE Certified and RoHS compliant. All motors (not blowers) are UL and C-UL Recognized (E47479).

Transflow—Heavy-duty, shaded-pole motor (permanent split capacitor on Nos. 3HMK2 and 3HMK3) features an oversized stack to enhance cooling and product life. Durable metal cooling-fan blade. Extruded aluminum, 1-pc. housing keeps blower wheel and motor properly aligned—reduces vibration. Permanently lubricated sleeve bearings on motor (Nos. 3HMK2 and 3HMK3 have permanently lubricated ball bearings) and blower housing significantly reduce motor hum transmission into equipment. 13" leads. Nos. 3HMK2 and 3HMK3 feature open dripproof motor enclosure.

Low-Profile—Forward curve centrifugal blower wheels, mounted in twin scroll housings, provide increased airflow at higher pressures. Double inlet maximizes airflow efficiency. Ball bearings and cast-aluminum end shields connect blower to heavy-duty, permanent split-capacitor Dayton® motor. 6 rubber isolators on mounting holes reduce vibration and noise. Flat black finish; compact design. 17" leads.



Transflow
No. 1TDU6



Low-Profile
No. 1TDU7

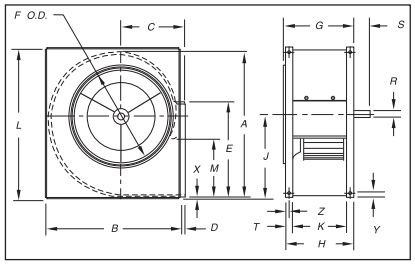
Blower Wheel Diameter	Blower Wheel Diameter	Overall Width	CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.200"	Blower Voltage	Full Load Amps	Hz	RPM	Replaces	Item No.
Transflow Blowers											
2 7/16 in	2 7/16 in	7 15/16 in	77	64	40	115V AC	0.50	60	3130	4C743	**1TDU3**
2 7/16 in	2 7/16 in	7 15/16 in	78	64	40	230V AC	0.28	50/60	3100	—	**3FRF3**
2 3/8 in	2 3/8 in	11 1/16 in	105	87	63	115V AC	0.55	60	2736	4C744	**1TDU4**
2 3/8 in	2 3/8 in	10 7/8 in	104	87	63	230V AC	0.30	50/60	2730	—	**3FRF4**
2 3/8 in	2 3/8 in	14 1/4 in	150	135	98	115V AC	0.73	60	2780	4C745	**1TDU5**
2 3/8 in	2 3/8 in	14 15/16 in	156	135	98	230V AC	0.46	50/60	2780	—	**3FRF5**
2 3/8 in	2 3/8 in	17 5/8 in	201	187	—	115V AC	0.90	60	2670	4YJ30	**1TDU6**
2 3/8 in	2 3/8 in	17 11/16 in	195	187	—	230V AC	0.52	50/60	2670	—	**3FRF6**
2 3/8 in	2 3/8 in	22 7/8 in	373	320	288	115V AC	0.71	50/60	2680	—	**3HMK2**
2 3/8 in	2 3/8 in	22 7/8 in	381	320	288	230V AC	0.35	50/60	2680	—	**3HMK3**
Low-Profile Blowers											
2 1/2 in	2 1/2 in	14 5/8 in	127	119	105	115V AC	0.39	50/60	3200	4C825	**1TDU7**
2 1/2 in	2 1/2 in	14 5/8 in	134	119	105	230V AC	0.18	50/60	3250	—	**3FRF7**
2 15/16 in	2 15/16 in	14 3/4 in	222	212	198	115V AC	0.60	50/60	2750	4C826	**1TDU8**
2 15/16 in	2 15/16 in	14 3/4 in	262	212	198	230V AC	0.28	50/60	2880	—	**3FRF8**

Dayton

Single-Inlet Forward-Curve Belt-Drive Blowers

- Housing can be rotated to any of 4 standard discharge positions
- Max. inlet air temp.: 150°F
- Max. ambient: 104°F

Single inlet for quiet, efficient performance in general ventilation, exhausting, air conditioning, and industrial air-moving applications. Precision, balanced, forward-curved steel wheels. Die-stamped steel housing. Single-phase motors have automatic reset thermal protection. Drive package components are packed separately.





CW Rotation Shown
No. 5ZCN7



CW Rotation Shown
No. 7HR35

Wheel (in.) Dia.	Wheel (in.) Width	Dimensions (in.) A	B	C	D	E	F	G	H	J	K	L	M	R	S	T	X	Y	Z
10¼	4⅜16	15¼	14⅝	7⅝16	1⅛16	10⅜16	9⅛16	9½	8⅜	8⅞	6½	16⅛	6	¾	3⅛	1⅛16	⅜	13⁄16	½
11⅛	6⅞16	17½	16⅜16	8	1⅛16	11⅜	10⅞	11¼	10⅜	10⅛	8¼	18	8	¾	3⅛	1⅛16	5⁄16	13⁄16	½
12¾	6	20½	19¼	9⅛16	1⅛16	13⅞16	12⅛16	11¼	10⅜	11¾	8¼	21⅛	8¼	¾	3⅛	1⅛16	3⁄16	13⁄16	½
15⅛16	9	24⅜16	22⅜16	10½	1⅛16	15⅜16	14¾	15⅛16	14⅜	14	12½	25	9⅞16	1	3⅞16	1⅛16	½	13⁄16	½
17⅜16	13	29⅛16	26⅛16	12⅜	1⅛16	18¾	18⅞16	19⅛	18⅛	16⅝16	16¾	30	18¾	1	3½	1⅛16	9⁄16	13⁄16	½
22⅛	10⅛16	39⅛16	35⅜16	15⅛16	⅜	27¼	22⅝16	21	20⅛	22⅝16	17⅛	40⅛	15¼	1⅜16	3¾	1½	⅜	2½	¾

Wheel Dia. (in.)	CFM Air Delivery @ RPM Shown 0.125"	0.250"	0.500"	0.750"	1.000"	Blower RPM	Motor HP	CW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor 230/460V, 60 Hz Item No.	CCW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor 230/460V, 60 Hz Item No.	CW ROTATION FROM DRIVE END WITHOUT DRIVE PACKAGE** Item No.	CCW ROTATION FROM DRIVE END WITHOUT DRIVE PACKAGE** Item No.
10¼	970	870	670	—	—	925	¼	**7HR35**	**7HR22**	**7HR59**	**7HR80**	**5ZCN7**	**5ZCP7**
	1110	1020	830	630	—	1030	⅓	**7HR36**	**7HR23**	**7HR60**	**7HR81**		
	1230	1180	1000	830	650	1150	½	**7HR13**	**7HR24**	**7HR61**	**7HR82**		
	1480	1420	1280	1150	1000	1350	¾	**7HR14**	**7HR25**	**7HR62**	**7HR83**		
	1600	1530	1420	1280	1180	1450	1	**7HR15**	**7HR26**	**7HR63**	**7HR84**		
11⅛	1430	1310	1040	—	—	850	½	**7HR37**	**7HR27**	**7HR64**	**7HR85**	**5ZCN8**	**5ZCP8**
	1820	1720	1500	1250	930	1050	¾	**7HR16**	**7HR28**	**7HR65**	**7HR86**		
	2060	1970	1810	1610	1390	1175	1	**7HR17**	**7HR29**	**7HR66**	**7HR87**		
	2380	2320	2170	2020	1830	1350	1½	**7HR18**	**7HR30**	**7HR67**	**7HR88**		
12¾	1730	1584	1095	—	—	650	½	**7HR38**	**7HR31**	**7HR68**	**7HR89**	**5ZCN9**	**5ZCP3**
	2050	1910	1524	1050	—	750	¾	**7HR19**	**7HR32**	**7HR69**	**7HR90**		
	2350	2240	1950	1570	1110	850	1	**7HR20**	**7HR33**	**7HR70**	**7HR91**		
	2750	2600	2400	2120	1780	970	1½	**7HR21**	**7HR34**	**7HR71**	**7HR92**		
15⅛16	3280	2780	1990	—	—	540	¾	**7HR39**	**7HR47**	**7HR72**	**7HR93**	**5ZCP0**	**5ZCP4**
	3640	3330	2520	1620	—	590	1	**7HR40**	**7HR48**	**7HR73**	**7HR94**		
	4140	3840	3230	2420	1820	665	1½	**7HR41**	**7HR49**	**7HR74**	**7HR95**		
	4700	4290	3880	3230	2520	740	2	**7HR42**	**7HR50**	**7HR75**	**7HR96**		
17⅜16	4440	4000	2360	—	—	470	1	**7HR43**	**7HR51**	**7HR76**	**7HR97**	**5ZCP1**	**5ZCP5**
	5180	4800	3810	1050	—	535	1½	**7HR44**	**7HR52**	**7HR77**	**7HR98**		
	5800	5460	4560	3210	1060	590	2	**7HR45**	**7HR53**	**7HR78**	**7HR99**		
	6680	6370	5710	4780	3360	670	3	—	**7HR54**	—	**7HT00**		
22⅛	7680	7070	5500	3540	—	390	2	**7HR46**	**7HR55**	**7HR79**	**7HT01**	**5ZCP2**	**5ZCP6**
	8780	8380	7220	5450	—	445	3	—	**7HR56**	—	**7HT02**		
	10,600	10,200	9600	8430	7170	530	5	—	**7HR57**	—	**7HT03**		
	12,100	11,550	11,000	10,300	9600	600	7½	—	**7HR58**	—	**7HT04**		

*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.***


Assembled


Unassembled


Housing Supports

For Use With Blower Housing	Item No. Supports
1XJX7	5TCJ2
1XJX8 & 1XJX9	5TCJ3

Direct-Drive Double Inlet Full- and ¾-Width Forward-Curve Blowers

- Blower wheel is reinforced to ensure optimal performance and trouble-free service
- Discharge can be rotated in four 90° increments
- Units replace most direct-drive blowers with the same horsepower ratings
- Max. inlet/ambient temp.: 104°F

Used in new and replacement installations for heating, air conditioning, and ventilation systems. Heavy-gauge steel blower housings have a galvanized steel finish, except assembled models have a gray enamel finish. Steel wheels have corrosion-resistant finish.

UNASSEMBLED

Units include housing support with resilient pads, adjustable motor mounting bracket with hardware, and assembly instructions. Bracket for 9½" units adjusts to fit blower motors 3½" to 6⅛" long. Bracket for 10⅝" units adjusts to fit blower motors 3 13/16" to 6⅝" long.

Item No.	Housing H (in.)	Housing W (in.)	Housing D (in.)	Discharge Height (in.)	Discharge Width (in.)
Blower Dimensions					
1XJX7	12¾	9¾	12 3/16	7 13/16	9⅛
1XJX8	15 9/32	12 5/16	15	10¼	11 3/16
1XJX9	15 9/32	12 5/16	15	10¼	11 3/16
1XJY1	17 5/16	11½	16 3/16	11⅜	10½
1XJY2	17 5/16	14 1/16	16 3/16	11⅜	13 1/16
1XJY3	20 5/16	13 1/16	19 9/32	13⅜	12 3/16
1XJY4	20 5/16	13 1/16	19 9/32	13⅜	12 3/16
5NRC3	15¼	9 3/16	15	10⅜	9 3/16
5NRC4	15¼	11¾	15	10 5/16	11¾
5NRC5	17½	10⅜	16¾	11½	10⅜
5NRC6	17½	13	16¾	11½	13

Wheel Dia.	Wheel Width (in.)	CFM Air Delivery @ Static Pressure Shown .300"	.400"	.500"	.600"	.700"	.800"	.900"	1.000"	1.100"	1.200"	1.250"	1.300"	1.400"	1.500"	1.600"	1.700"	Speed	Motor RPM	Motor HP	Volts @ 60 Hz	Full Load Amps	BLOWER WITH MOTOR Item No.	BLOWER WITHOUT MOTOR Item No.
Assembled																								
9 7/16"	7 3/16	1009	1005	1001	929	838	692	—	—	—	—	—	—	—	—	—	—	1	1070	⅛	115	3.7	1XJX7	—
		1457	1340	1319	1301	1230	1117	715	—	—	—	—	—	—	—	—	—	1	986	¼	115	4.9	1XJX8	—
	9 7/16	1638	1610	1545	1457	1358	1225	1050	—	—	—	—	—	—	—	—	—	4	1085	⅓	115	6.9	1XJX9	—
		1516	1496	1437	1373	1320	1139	926	—	—	—	—	—	—	—	—	—		1040					
		1368	1310	1280	1256	1185	1052	826	—	—	—	—	—	—	—	—	—		937					
		1132	1101	1083	1046	1012	896	813	—	—	—	—	—	—	—	—	—		858					
11"	7 13/16	#	#	#	#	#	1857	1751	1654	1521	1188	938	—	—	—	—	—	4	1060	½	115	9.0	1XJY1	—
		#	#	#	#	#	1706	1632	1546	1381	1033	863	—	—	—	—	—		1035					
		#	#	#	#	#	1524	1458	1393	1208	925	841	—	—	—	—	—		989					
		#	#	#	#	#	1327	1279	1162	1049	846	622	—	—	—	—	—		946					
	10 9/16	#	#	#	#	#	#	2016	1864	1704	1399	1217	1171	—	—	—	—	4	1100	¾	115	9.0	1XJY2	—
		#	#	#	#	#	#	1925	1776	1589	1255	1184	1122	—	—	—	—		1080					
		#	#	#	#	#	#	1745	1636	1430	1209	1128	1074	—	—	—	—		1050					
		#	#	#	#	#	#	1587	1474	1345	1152	1110	880	—	—	—	—		1027					
13"	9½	#	#	#	#	#	#	#	#	#	2701	2591	2522	2373	2231	2057	1851	3	1097	1	115	15.3	1XJY3	—
		#	#	#	#	#	#	#	#	#	2480	2400	2373	2218	2084	1910	1696		1070					
		#	#	#	#	#	#	#	#	#	2248	2170	2143	2032	1890	1685	1498		1038					
		#	#	#	#	#	#	#	#	#	2553	2591	2465	2316	2149	1957	1671	3	1086	1	208-230	7.2/6.9	1XJY4	—
		#	#	#	#	#	#	#	#	#	2472	2400	2401	2282	2116	1925	1680		1062					
		#	#	#	#	#	#	#	#	#	2255	2170	2204	2078	1959	1707	1333		1039					
Unassembled																								
9½"	6½	#	1245	1225	1200	1150	1105	1040	—	—	—	—	—	—	—	—	—	1	1050	¼	115	12.3	7HL51	5NRC3
		#	#	#	#	#	#	690	560	—	—	—	—	—	—	—	—	4	1050	⅓	115	6.5	7HL52	
		#	#	#	750	725	615	—	—	—	—	—	—	—	—	—	—							
		#	#	#	615	580	400	—	—	—	—	—	—	—	—	—	—							
		#	#	#	535	480	340	—	—	—	—	—	—	—	—	—	—							
		#	#	#	#	#	#	#	#	990	790	—	—	—	—	—	—	4	1075	⅓	115	4.0	7HL53	
		#	#	#	#	#	1035	980	945	—	—	—	—	—	—	—	—							
		#	#	#	#	845	830	815	735	—	—	—	—	—	—	—	—							
		#	#	#	#	760	750	705	610	—	—	—	—	—	—	—	—							
		#	#	#	#	#	1250	1180	1155	1125	895	—	—	—	—	—	—	4	1075	½	115	6.3	7HL54	
		#	#	#	1230	1185	1170	1140	1060	959	—	—	—	—	—	—	—							
		#	#	#	1190	1170	1150	1095	960	765	—	—	—	—	—	—	—							
		#	#	#	#	#	1080	1030	950	650	—	—	—	—	—	—	—							
	9¼	1335	1325	1300	1260	1195	—	—	—	—	—	—	—	—	—	—	—	1	1050	¼	115	12.3	7HL55	5NRC4
		#	#	#	#	#	#	1090	920	785								4	1075	⅓	115	4.0	7HL56	
		#	#	#	#	#	1060	915	860	350	—	—	—	—	—	—	—							
		#	#	#	#	925	910	870	730	—	—	—	—	—	—	—	—							
		#	#	#	845	835	735	—	—	—														
		#	#	#	#	#	#	1460	1290	875	—	—	—	—	—	—	—	4	1075	½	115	6.3	7HL57	
		#	#	#	#	#	1410	1345	—	—	—	—	—	—	—	—	—							
		#	#	#	1395	1300	1235	—	—	—	—	—	—	—	—	—	—							
		#	#	#	1280	1200	1135	—	—	—	—	—	—	—	—	—	—							
		#	#	#	#	1700	1625	1515	1435	—	—	—	—	—	—	—	—	4	1075	¾	115	8.7	7HL58	
		#	#	#	#	1580	1555	1480	1275	—	—	—	—	—	—	—	—							
		#	#	1575	1535	1520	1495	1375	1150	—	—	—	—	—	—	—	—							
		#	#	1480	1440	1430	1380	1270	1075	—	—	—	—	—	—	—	—							
10 13/16"	8	#	#	#	#	#	#	#	#	#	#	#	895	780	705	—	—	4	1075	⅓	115	12.0	7HL59	5NRC5
		#	#	#	#	#	#	#	990	960	850	—	—	—	—	—	—							
		#	#	#	#	#	845	830	815	770	—	—	—	—	—	—	—							
		#	#	#	#	#	715	700	670	—	—	—	—	—	—	—	—							
		#	#	#	#	#	#	#	#	#	#	#	#	1205	700	—	—	4	1075	½	115	6.3	7HL60	
		#	#	#	#	#	#	#	1375	1340	1235	1150	—	—	—	—	—							
		#	#	#	#	#	#	#	1230	1180	1085	—	—	—	—	—	—							
		#	#	#	#	#	#	#	1090	1010	930	—	—	—	—	—	—							
		#	#	#	#	#	#	#	#	#	#	#	#	1715	1460	—	—	4	1075	¾	115	8.7	7HL61	
		#	#	#	#	#	#	#	1695	1660	1605	1570	1520	1340	—	—	—							
		#	#	#	#	#	#	#	1500	1485	1440	1400	1365	—	—	—	—							
		#	#	#	#	#	#	#	1320	1305	1255	1200	1155	—	—	—	—							
	10 3/8	#	#	#	#	#	#	#	#	#	905	830	710	—	—	—	—	4	1075	⅓	115	4.0	7HL62	5NRC6
		#	#	#	#	#	#	890	805	690	—	—	—	—	—	—	—							
		#	#	#	#	955	940	880	800	—	—	—	—	—	—	—	—							
		#	#	#	#	655	605	515	—	—	—	—	—	—	—	—	—							
		#	#	#	#	#	#	#	#	#	1440	905	—	—	—	—	—	4	1075	½	115	8.7	7HL63	
		#	#	#	#	#	#	1435	1415	1340	—	—	—	—	—	—	—							
		#	#	#	#	#	1350	1300	1250	1040	—	—	—	—	—	—	—							
		#	#	#	#	#	1170	1105	960	820	—	—	—	—	—	—	—							
		#	#	#	#	#	#	#	2200	2060	1925	1555	—	—	—	—	—	4	1075	¾	115	8.7	7HL64	
		#	#	#	#	2020	2005	1905	1865	1790	1650	—	—	—	—	—	—							
		#	#	#	#	1745	1735	1710	1675	1590	1135	—	—	—	—	—	—							
		#	#	#	#	1565	1555	1530	1460	1245	975	—	—	—	—	—	—							
		#	#	#	#	#	#	#	2200	2060	1925	1555	—	—	—	—	—	4	1075	¾	208-230	4.8/4.4	7HL65	
		#	#	#	#	2020	2005	1905	1865	1790	1650	—	—	—	—	—	—							
		#	#	#	#	1745	1735	1710	1675	1590	1135	—	—	—	—	—	—							
		#	#	#	#	1565	1555	1530	1460	1245	975	—	—	—	—	—	—							

WARNING: Motor overload will result if blower is operated at static pressures below performance shown.

Double Inlet Full- and ¾-Width Forward Curve Belt-Drive Blowers

Dayton

- Max. blower operating temp.: 150°F
- Max. motor operating temp.: 104°F
- Discharge can be rotated in four 90° increments

Prelubricated, sealed ball bearings with rubber isolators and dynamically balanced forward curved wheel. Precision-ground shafting with both keyways and flats for a wide range of drives and HP. A variable-pitch motor sheave is provided when ordered, complete with drive package for speed adjustment. Die-stamped steel housing with mounting supports. Mounting hardware and isolation grommets included. Blowers include a motor mounting bracket built for 1½ HP maximum. 1/6- to 1½-HP motor and drives for bottom horizontal discharge packed separately, when ordered complete. Longer or shorter belt may be required for other discharge positions. 2- to 5-HP motors are floor mount only.



1/6 to 1½ HP with Drive Package, Shown Assembled

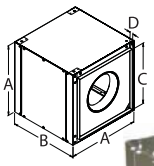


2 to 5 HP with Drive Package, Shown Assembled

Wheel Dia.	Wheel Width (in.)	Housing H (in.)	Housing W (in.)	Housing D (in.)	Disch. H	Disch. W	CFM Air Delivery @ Static Pressure Shown 0.25"	0.5"	0.625"	0.75"	1.00"	1.25"	Blower RPM	Motor HP	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 230/460V Item No.	Totally Enclosed 3-Phase Motor 230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
10¼"	6¾	14 3/16	9 3/16	12½	6 5/16"	9 3/16"	1040	—	—	—	—	—	706	⅛	7HL91	—	—	—	
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	1040	—	—	—	—	—	706	¼	—	7J406	—	—	
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	#	1200	—	—	—	—	897	⅓	7HL92	7J407	7HL93	7J408	
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	#	1565	1450	—	—	—	1041	½	7HL94	7J409	7HL95	7J410	5NRC8
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	#	#	1780	1690	—	—	1182	¾	7HL96	7J411	7HL97	7J412	
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	#	#	#	2020	1850	1250	1324	1	7HL98	7J413	7HL99	7J414	
		14 3/16	9 3/16	12½	6 5/16"	9 3/16"	#	#	2300	2225	2120	2000	1458	1½	7HN00	—	7HN01	7J415	
	9 3/16	16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	1550	—	—	—	—	—	700	¼	7HN02	7J416	—	7HN03	
		16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	#	2070	1920	1800	—	—	959	½	7HN04	7J417	7HN05	7J418	
		16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	#	2420	2310	2170	—	—	1068	¾	7HN06	7J419	7HN07	7J420	5NRC9
		16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	#	2620	2570	2460	2220	—	1150	1	7HN08	7J421	7HN09	7J422	
		16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	#	3050	2980	2940	2730	2540	1300	1½	7HN10	—	7HN11	7J423	
		16 5/16	11 13/16	14 5/16	6 5/16"	11 13/16"	#	3320	3280	3220	3100	2910	1406	2	7HN12	7J424	7HN13	7J425	
11⅛"	7⅛	18 3/16	10½	16 9/16	7"	10½"	1250	—	—	—	—	—	565	¼	7HN14	7J426	—	7HN15	
		18 3/16	10½	16 9/16	7"	10½"	1530	—	—	—	—	—	625	⅓	7HN16	7J427	7HN17	7J428	
		18 3/16	10½	16 9/16	7"	10½"	#	1940	1650	1210	—	—	833	½	7HN18	7J429	7HN19	7J430	
		18 3/16	10½	16 9/16	7"	10½"	#	2280	2050	1780	—	—	907	¾	7HN20	7J431	7HN21	7J432	5NRD0
		18 3/16	10½	16 9/16	7"	10½"	#	2670	2470	2280	1750	—	1000	1	7HN22	7J433	7HN23	7J434	
		18 3/16	10½	16 9/16	7"	10½"	#	3050	2940	2745	2350	1820	1100	1½	7HN24	—	7HN25	7J435	
		18 3/16	10½	16 9/16	7"	10½"	#	3440	3330	3180	2850	2440	1200	2	7HN26	7J436	7HN27	7J437	
	10⅛	18 3/16	13⅛	16 9/16	7"	13⅛"	1230	—	—	—	—	—	534	¼	7HN28	7J438	—	7HN29	
		18 3/16	13⅛	16 9/16	7"	13⅛"	1650	—	—	—	—	—	593	⅓	7HN30	7J439	7HN31	7J440	
		18 3/16	13⅛	16 9/16	7"	13⅛"	#	2050	1600	—	—	—	795	½	7HN32	7J441	7HN33	7J442	
		18 3/16	13⅛	16 9/16	7"	13⅛"	#	2450	2050	1620	—	—	857	¾	7HN34	7J443	7HN35	7J444	5NRD1
		18 3/16	13⅛	16 9/16	7"	13⅛"	#	#	#	2700	1980	—	1000	1	7HN36	7J445	7HN37	7J446	
		18 3/16	13⅛	16 9/16	7"	13⅛"	#	#	#	3300	2740	1980	1100	1½	7HN38	—	7HN39	7J447	
		18 3/16	13⅛	16 9/16	7"	13⅛"	#	#	#	#	3390	2840	1200	2	7HN40	7J448	7HN41	7J449	
12¾"	9 1/16	21 1/16	12¼	19⅜	8⅜"	12¼"	1790	—	—	—	—	—	470	⅓	7HN42	7J450	7HN43	7J451	
		21 1/16	12¼	19⅜	8⅜"	12¼"	2350	—	—	—	—	—	547	½	7HN44	7J452	7HN45	7J453	
		21 1/16	12¼	19⅜	8⅜"	12¼"	#	2800	2520	2150	—	—	706	¾	7HN46	7J454	7HN47	7J455	
		21 1/16	12¼	19⅜	8⅜"	12¼"	#	3060	2790	2450	—	—	734	1	7HN48	7J456	7HN49	7J457	5NRD2
		21 1/16	12¼	19⅜	8⅜"	12¼"	#	3710	3480	3250	2600	—	826	1½	7HN50	—	7HN51	7J458	
		21 1/16	12¼	19⅜	8⅜"	12¼"	#	#	4200	3980	3580	3000	930	2	7HN52	7J459	7HN53	7J460	
		21 1/16	12¼	19⅜	8⅜"	12¼"	#	4880	4720	4540	4180	3750	1012	3	—	—	7HN54	7J461	
	12 1/16	21 1/16	15⅜	19⅜	8⅜"	15⅜"	2100	—	—	—	—	—	455	⅓	7HN55	7J462	7HN56	7J463	
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	2750	—	—	—	—	—	535	½	7HN57	7J464	7HN58	7J465	
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	#	3100	2400	—	—	—	656	¾	7HN59	7J466	7HN60	7J467	
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	#	3590	3180	2440	—	—	711	1	7HN61	7J468	7HN62	7J469	5NRD3
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	#	#	#	4080	2950	—	826	1½	7HN63	—	7HN64	7J470	
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	#	#	#	4550	3800	3350	888	2	7HN65	7J471	7HN66	7J472	
		21 1/16	15⅜	19⅜	8⅜"	15⅜"	#	#	#	5270	4920	4550	1000	3	—	—	7HN67	7J473	
15 1/16"	10 15/16	25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	2790	—	—	—	—	—	402	½	7HN68	7J474	7HN69	7J475	
		25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	3420	—	—	—	—	—	451	¾	7HN70	7J476	7HN71	7J477	
		25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	#	4080	3500	2480	—	—	577	1	7HN72	7J478	7HN73	7J479	5NRD4
		25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	#	#	4600	4170	—	—	647	1½	7HN74	—	7HN75	7J480	
		25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	#	#	5100	4770	3400	—	684	2	7HN76	7J481	7HN77	7J482	
		25¾	14 1/16	22 1/16	9 1/16"	14 1/16"	#	#	#	#	#	5400	837	3	—	—	7HN78	7J483	
	14⅞	25¾	18⅝	22 1/16	9 1/16"	18⅝"	3300	—	—	—	—	—	402	½	7HN79	7J484	7HN80	7J485	
		25¾	18⅝	22 1/16	9 1/16"	18⅝"	3980	—	—	—	—	—	443	¾	7HN81	7J486	7HN82	7J487	
		25¾	18⅝	22 1/16	9 1/16"	18⅝"	#	3950	—	—	—	—	523	1	7HN83	7J488	7HN84	7J489	5NRD5
		25¾	18⅝	22 1/16	9 1/16"	18⅝"	#	#	4800	4100	—	—	613	1½	7HN85	—	7HN86	7J490	
		25¾	18⅝	22 1/16	9 1/16"	18⅝"	#	#	#	5500	4080	—	684	2	7HN87	7J491	7HN88	7J492	
		25¾	18⅝	22 1/16	9 1/16"	18⅝"	#	#	#	#	#	5800	806	3	—	—	7HN89	7J493	
17 13/16"	12½	30 1/16	17⅜	27	11¾"	17⅜"	4320	—	—	—	—	—	360	¾	7HN90	7J494	7HN91	7J495	
		30 1/16	17⅜	27	11¾"	17⅜"	5400	3180	—	—	—	—	412	1	7HN92	7J496	7HN93	7J497	
		30 1/16	17⅜	27	11¾"	17⅜"	#	5900	5180	3630	—	—	500	1½	7HN94	—	7HN95	7J498	5NRD6
		30 1/16	17⅜	27	11¾"	17⅜"	#	#	#	6180	—	—	571	2	7HN96	7J499	7HN97	7J500	
		30 1/16	17⅜	27	11¾"	17⅜"	#	#	#	#	7100	5500	631	3	—	—	7HN98	7J501	
		30 1/16	17⅜	27	11¾"	17⅜"	#	#	#	9200	8400	7150	703	5	—	—	7HN99	7J502	
	17½	30 1/16	21⅞	27	11¾"	21⅞"	4350	—	—	—	—	—	331	¾	7HP00	7J503	7HP01	7J504	
		30 1/16	21⅞	27	11¾"	21⅞"	#	3400	—	—	—	—	412	1	7HP02	7J505	7HP03	7J506	
		30 1/16	21⅞	27	11¾"	21⅞"	#	5470	—	—	—	—	451	1½	7HP04	—	7HP05	7J507	5NRD7
		30 1/16	21⅞	27	11¾"	21⅞"	#	#	#	6900	—	—	556	2	7HP06	7J508	7HP07	7J509	
		30 1/16	21⅞	27	11¾"	21⅞"	#	#	#	#	7100	5410	620	3	—	—	7HP08	7J510	
		30 1/16	21⅞	27	11¾"	21⅞"	#	#	#	#	#	8405	703	5	—	—	7HP09	7J511	

WARNING: Motor overload will result if blower is operated at static pressure below performance shown. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.

In-Line Duct Blowers



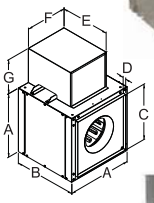
Direct-Drive



- Aluminum backward-inclined, nonoverloading centrifugal wheel design
- Mount horizontally or vertically
- Max. ambient: 104°F

Designed for indoor clean-air applications including intake, exhaust, return, or makeup air systems in industrial or commercial buildings. Collars simplify duct connections. Panels on each side provide quick access to internal fan components. UL 705. UL and C-UL Listed.

Direct-Drive—Units are speed controllable. Nos. 2RB86, 10C387, and 10C388 have 3-speed motor. Units are pre-assembled.



Belt-Drive



Nos. 20UD15 to 20UD17 feature electronically commutated (EC) motor on the blowers, providing up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. The optional Speed Control Kit No. 43Y140 (sold on page 2955) allows you to manually adjust a fan's speed from a remote location and mounts to a wall using a 2x4 junction box.

- Max. inlet air temp.: 104°F
- Include NEMA 1 junction box

Belt-Drive—Drive package components packed separately.

- Bearing cover and motor cover provide longer service life
- Max. inlet air temp.: 160°F
- Pillow block bearings

Item No.	Dimensions (in.) A	B	C	D	E	F	G	Inlet Dia. (in.)
Direct-Drive								
2RB86, 10C387, 10C388, 20UD15	15	16	11⅞	1	—	—	—	8⅜
2RB87	17	21	13⅜	1	—	—	—	8¼
5TCK9, 5TCL0, 20UD16	19	21	15⅜	1	—	—	—	9⅜
5TCL1, 20UD17	23	22	19⅜	1	—	—	—	10½
5TCL2	26	26	22⅜	1	—	—	—	11⅝
Belt-Drive								
5TCL3, 5TCL4	17⅛	21"	11⅞"	1½	17¾	13	13¼	7¾
2RB89	17⅛	21"	13⅜"	1½	17¾	13	13¼	7¾
10C389	21⅛	21"	17⅜"	1½	20	17	13¼	9⅜
5AV78, 10C391	23⅛	22"	19⅜"	1½	20	17	13¼	10½
5AV79, 10C392	26⅛	26"	22⅜"	1½	20	17"	13¼	11⅝
5AV81	31⅛	32"	27⅜"	1½"	30	20	16	14½
5AV82	38¼	34"	34⅞"	1½"	30	20	16	17½
5AV84	46	38	41⅞	1½	35¼	22	18	20½

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	Blower RPM	Sones @ 0.125" SP @ 5 ft.#	BLOWER WITH MOTOR 115V, 1-Phase Motor HP	115V, 1-Phase Item No.	EC Motor, 115V, 1-Phase Motor HP	EC Motor, 115V, 1-Phase Item No.
Direct Drive														
11	225	104	—	—	—	—	—	—	1050	3.6	½	10C387	—	—
	312	244	140	—	—	—	—	—	1300	5.4				
	394	342	280	201	—	—	—	—	1550	7.3				
	369	188	—	—	—	—	—	—	1050	3.9	½	10C388	—	—
	519	397	245	—	—	—	—	—	1300	5.4				
	654	564	457	334	—	—	—	—	1550	7.5				
	353	—	—	—	—	—	—	—	900	2.8	—	—		
	475	275	—	—	—	—	—	—	1050	4.5	⅛	2RB86	⅛	20UD15
	660	523	352	—	—	—	—	—	1300	6.7				
	830	720	604	462	276	—	—	—	1550	9.3				
	948	850	751	641	507	352	—	—	1725	11.0	—	—		
	1403	1350	1292	1227	1156	1078	831	—	1725	12.4	¼	2RB87	—	—
13⅛	894	766	587	—	—	—	—	—	900	4.6	—	—		
	1080	976	858	707	—	—	—	—	1050	6.1	—	—		
	1189	1094	992	873	692	—	—	—	1140	7.2	⅛	5TCL0		
	1383	1298	1214	1122	1018	893	—	—	1300	8.7	—	—	½	20UD16
	1679	1607	1536	1466	1393	1313	1122	—	1550	11.5	—	—		
	1883	1818	1754	1692	1628	1562	1416	1239	1725	14.1	½	5TCK9		
14½	1487	1317	1033	—	—	—	—	—	860	6.2	—	—		
	2061	1942	1818	1666	1446	1121	—	—	1140	10.5	⅓	5TCL1	¾	20UD17
	2870	2790	2703	2614	2524	2429	2188	1809	1550	16.5	—	—		
16¾	3194	3061	2922	2773	2587	2388	1808	—	1140	13.4	½	5TCL2	—	—

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	1.500"	1.75"	Blower RPM	Motor HP	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** 1-Phase Motor 115/230V Item No.		3-Phase Motor 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive																		
11	404	383	358	331	302	272	211	141	—	—	1969	¼	0.26	19.1	7K438		—	5TCL3
	451	432	411	387	362	335	283	225	161	—	2174	⅓	0.35	21	7K439		—	
	520	502	486	466	446	424	378	332	285	229	2480	½	0.52	25	7K440		7K441	
	964	913	857	796	728	651	433	—	—	—	1692	¼	0.26	16.0	7K442		—	5TCL4
	1074	1029	980	927	871	809	660	—	—	—	1868	⅓	0.35	17.6	7K443		—	
	1236	1199	1157	1114	1068	1021	913	784	632	—	2131	½	0.52	21	7K444		7K445	
	1432	1399	1366	1329	1292	1253	1170	1077	980	849	2450	¾	0.79	25	7K446		7K447	
	1580	1550	1521	1489	1455	1421	1349	1272	1188	1099	2693	1	1.05	28	7K448	††	7K449	
11½	1265	1207	1149	1088	1003	917	—	—	—	—	1609	¼	0.26	15.4	7M7R9		—	2RB89
	1405	1352	1298	1247	1187	1110	939	—	—	—	1772	⅓	0.35	16.6	7M7T0		—	
	1623	1577	1530	1484	1439	1396	1262	1119	—	—	2029	½	0.52	19.8	7M7T1		7M7T4	
	1871	1830	1790	1749	1708	1668	1591	1472	1358	1197	2323	¾	0.79	23	7M7T2		7M7T5	
	2066	2029	1993	1956	1919	1882	1810	1734	1626	1522	2556	1	1.05	26	7M7T3	††	7M7T6	
13½	1650	1562	1460	1326	1168	955	—	—	—	—	1292	¼	0.26	11.8	7J627		—	10C389
	1842	1758	1677	1573	1449	1306	—	—	—	—	1427	⅓	0.35	13.6	7J628	††	—	
	2121	2045	1978	1903	1815	1708	1461	1087	—	—	1627	½	0.52	15.8	7J629		7J630	
	2456	2398	2332	2274	2211	2138	1960	1753	1480	—	1872	¾	0.79	20	7J631	††	7J632	
	2708	2661	2598	2543	2490	2432	2294	2125	1935	1698	2057	1	1.05	23	7J633	††	7J634	
	3106	3069	3020	2965	2917	2871	2771	2653	2507	2351	2351	1½	1.57	30	7J635	††	7J636	
14	1362	1185	860	—	—	—	—	—	—	—	800	¼	0.11	6.3	7H454		7H468	5AV78
	1927	1810	1681	1538	1311	—	—	—	—	—	1076	¼	0.26	10.7	7H455		7H469	
	2142	2039	1927	1807	1667	1463	—	—	—	—	1185	⅓	0.35	12.1	7H456		7H470	
	2476	2392	2297	2197	2095	1979	1636	—	—	—	1356	½	0.52	14.2	7H457		7H471	
	2858	2787	2708	2626	2539	2449	2253	1964	1447	—	1553	¾	0.79	16.2	7A0H7		7A0H8	
	3159	3094	3028	2953	2878	2798	2635	2451	2177	1752	1709	1	1.05	18.2	7A0H9	††	7A0J0	
	3633	3576	3520	3461	3395	3330	3193	3050	2894	2705	1956	1½	1.57	24	7A0J1	††	7A0J2	
	4009	3958	3907	3856	3800	3741	3622	3494	3365	3225	2153	2	2.10	30	7A0J3	††	7A0J4	
16	2373	2209	2015	1759	—	—	—	—	—	—	873	¼	0.26	8.8	7A0J5		—	5AV79
	2643	2504	2339	2150	1893	—	—	—	—	—	962	⅓	0.35	9.9	7A0J6		—	
	3061	2944	2812	2665	2504	2301	—	—	—	—	1101	½	0.52	12.4	7H458		7H472	
	3538	3436	3333	3212	3087	2946	2611	2071	—	—	1261	¾	0.78	15.5	7H459		7H473	
	3911	3818	3725	3628	3515	3402	3146	2815	2311	—	1387	1	1.04	18.0	7H460	††	7H474	
	4503	4422	4341	4259	4178	4079	3880	3656	3389	3055	1588	1½	1.56	22	7A0J7	††	7A0J8	
	4973	4899	4825	4751	4677	4603	4425	4240	4037	3802	1748	2	2.08	28	7A0J9	††	7A0K0	
	5713	5648	5584	5519	5454	5390	5260	5103	4946	4774	2001	3	3.12	40	—		7A0K1	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet hemispherical fan sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. †† 115/208-230V.*

CONTINUED

CONTINUED

Dayton

In-Line Duct Blowers

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	1.500"	1.75"	Blower RPM	Motor HP	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** 1-Phase Motor 115/230V Item No.		3-Phase Motor 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive (Cont.)																		
	3315	3018	2670	2042	—	—	—	—	—	—	660	⅓	0.34	11.7	7A0K8		—	
	3867	3624	3348	3036	2572	—	—	—	—	—	756	½	0.52	12.7	7A0K9		7A0L0	
	4484	4285	4061	3812	3544	3239	—	—	—	—	865	¾	0.79	14.1	7H464		7H478	
20	4972	4796	4598	4391	4159	3916	3203	—	—	—	952	1	1.04	15.7	7H465	††	7H479	5AV81
	5741	5587	5430	5253	5075	4874	4452	3878	—	—	1090	1½	1.57	19.1	7H466	††	7H480	
	6350	6210	6070	5920	5758	5597	5233	4836	4316	—	1200	2	2.09	22	7H467	††	7H481	
	7303	7181	7059	6936	6806	6665	6383	6063	5738	5363	1373	3	3.12	27	—		7A0L1	
	5269	4833	4351	3685	—	—	—	—	—	—	569	½	0.51	12.3	7A0L2		7A0L3	
	6132	5768	5372	4946	4394	—	—	—	—	—	651	¾	0.78	14.3	7A0L4		7A0L5	
	6816	6498	6156	5782	5386	4884	—	—	—	—	717	1	1.04	16.2	7A0L6	††	7A0L7	
24	7935	7680	7384	7086	6761	6425	5604	—	—	—	826	1½	1.59	19.5	7A0L8	††	7A0L9	5AV82
	8720	8488	8231	7960	7681	7384	6756	5889	—	—	903	2	2.09	22	7H575	††	7H482	
	10,048	9845	9643	9409	9173	8936	8421	7881	7219	6268	1034	3	3.14	28	—		7H483	
	11,973	11,802	11,631	11,460	11,270	11,070	10,671	10,245	9804	9345	1225	5	5.20	41	—		7H484	
	7693	7033	6181	4827	—	—	—	—	—	—	449	¾	0.78	12.2	7A0M0		7A0M1	
	8598	7982	7332	6450	4898	—	—	—	—	—	494	1	1.04	14.7	7A0M2	††	7A0M3	
	10,022	9469	8956	8363	7611	6662	—	—	—	—	566	1½	1.57	17.2	7A0M4	††	7A0M5	
30	11,129	10,636	10,150	9676	9119	8418	—	—	—	—	623	2	2.09	19.3	7A0M6	††	7A0M7	5AV84
	12,862	12,446	12,004	11,588	11,186	10,703	9547	7803	—	—	713	3	3.13	23	—		7H485	
	15,380	15,041	14,680	14,307	13,943	13,604	12,860	11,957	10,839	9309	845	5	5.23	27	—		7H486	
	17,693	17,396	17,099	16,776	16,450	16,124	15,526	14,888	14,171	13,273	967	7½	7.85	33	—		7H487	
Belt-Drive, High-Pressure																		
	1484	1417	1340	1252	1155	1039	—	—	—	—	1318	¼	0.26	13.0	7J647		—	
	1650	1591	1527	1452	1373	1284	1062	—	—	—	1455	⅓	0.35	14.8	7J648	††	—	
	1898	1847	1794	1737	1671	1601	1449	1256	—	—	1660	½	0.52	17.5	7J649		7J650	
14	2195	2152	2106	2060	2011	1958	1836	1706	1553	1370	1908	¾	0.79	21	7J651	††	7J652	10C391
	2422	2383	2342	2301	2259	2213	2111	2001	1882	1744	2098	1	1.05	25	7J653	††	7J654	
	2780	2746	2711	2676	2639	2603	2525	2437	2339	2244	2399	1½	1.57	30	7J655	††	7J656	
	3070	3038	3007	2976	2943	2910	2843	2771	2691	2601	2643	2	2.10	33	7J657	††	7J658	
	1938	1834	1713	1563	1377	1117	—	—	—	—	1012	¼	0.26	8.3	7J659		—	
	2159	2067	1963	1847	1706	1537	—	—	—	—	1117	⅓	0.35	9.5	7J660	††	—	
	2487	2408	2327	2232	2133	2015	1724	1295	—	—	1275	½	0.52	11.9	7J661		7J662	
16	2879	2812	2741	2671	2588	2504	2307	2059	1734	—	1465	¾	0.79	15.3	7J663	††	7J664	10C392
	3178	3118	3055	2991	2925	2849	2694	2503	2275	2002	1611	1	1.05	18.6	7J665	††	7J666	
	3651	3600	3546	3490	3435	3379	3250	3117	2956	2776	1843	1½	1.57	26	7J667	††	7J668	
	4030	3983	3936	3886	3835	3784	3680	3560	3439	3295	2029	2	2.10	30	7J669	††	7J670	
	4618	4577	4536	4495	4451	4407	4318	4229	4125	4019	2319	3	3.13	38	—		7J671	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet hemispherical fan sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. †† 115/208-230V.*

DELHI

Centrifugal In-Line Belt-Drive Duct Blowers and Filters

- Ball bearing motors are rated for continuous duty
- Filter section has quick-access, washable 1"-thick aluminum mesh filter panel
- All-position mount (shaft horizontal only)
- Max. inlet/ambient air temp.: 140°F

The internal air mover is a quiet, forward-curved, ball bearing, double inlet blower. Access panel allows convenient motor and drive installation and servicing from either side. ½" internal fiberglass insulation helps isolate noise and overcome condensation on cabinet when used in cooling applications. Use indoors with clean-air heating, cooling, and ventilating systems. Up to 25% blower speed and cfm reduction using variable pitch motor sheaves when ordered with motor and drives. Drive package components are packed separately.

No. 3F532 Shown with optional filter rack



Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.00"	Blower RPM	Motor HP	Sones @ 0.125" SP	COMPLETE WITH DRIVE PACKAGE** 1-Ph, 115/230V Motor Item No.	3-Ph, 230/460V Motor Item No.	WITHOUT DRIVE PACKAGE** Item No.	WITHOUT CABINET OR DRIVE PACKAGE** Item No.
	1385	1225	825	—	—	—	—	690	¼	5.2	7H715	7H737		
10¼	1575	1455	1250	—	—	—	—	771	⅓	6.7	7H716	7H738	3F532	41N516
	1820	1725	1600	1390	900	—	—	878	½	8.7	7H717	7H739		
	2115	2035	1945	1835	1650	1400	—	1008	¾	11.7	7H718	7H740		
	1725	1540	975	—	—	—	—	625	¼	7.1	7H719	7H741		
11⁹⁄₁₆	1885	1715	1350	—	—	—	—	667	⅓	8.4	7H720	7H742	3F533	41N522
	2190	2045	1855	1495	—	—	—	759	½	11.2	7H721	7H743		
	2515	2400	2260	2080	1750	850	—	863	¾	14.7	7H722	7H744		
	3725	3465	2160	—	—	—	—	451	¾	9.0	7H728	7H750		
	4425	4240	3960	2700	—	—	—	528	1	12.3	7H729	7H751		
15½	4945	4790	4600	4270	2865	980	—	586	1½	15.2	7H730	7H752	3F535	41N525
	—	—	4880	4625	4080	1660	—	614	1½	—	7H731	7H753		
	5470	5335	5175	4970	4620	3250	—	645	2	18.1	—	7H754		
	—	—	—	5335	5080	4600	1160	679	2	—	—	7H755		
	5500	4780	3320	—	—	—	—	384	1	9.6	7H732	7H756		
	6515	5960	5220	3820	—	—	—	443	1½	13.8	7H733	7H757		
18½	7320	6850	6285	5530	4135	—	—	491	2	17.4	—	7H758	3F536	41N526
	8515	8120	7685	7185	6525	5535	—	563	3	23	—	7H759		
	10,000	9680	9325	8950	8520	8025	6550	654	5	30	—	7H760		

*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Scan. Order. Done.
Details on page A1.

Single-Inlet Forward Curve Direct-Drive Blowers



Blower With Motor

- Housing can be rotated to 8 discharge positions in each rotation
- Welded steel construction
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Provide high-volume ventilation when duct systems are required. Motor packed separately when ordered with blower.

Note: Review OSHA codes. OSHA complying guards are required where fan blades are exposed and within reach of personnel.

High-Volume—Great for medium pressures; combine characteristics of high-volume and high-pressure blowers. 16-ga. steel housing with welded, airtight joints. Heavy steel wheel. All motors are rigid mounted.

Wheel Dia. (in.)	Wheel Width (in.)	Wheel Bore (in.)	Inlet Dia. (in.)	Outlet Height (in.)	Outlet Width (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
6⅝	2½	½	6	7⅜	4¼	15	14	11	2RXL4	2RXP6	45J453
7¾	3⅛	½	8	8¼	5⅜	16	15	14	2RXL5	2RXP7	45J454
9	4½	½	9	10¾	6½	18	16	15	2RXL6	2RXP8	45J455
10⅜	5¼	⅝	10	11¾	8	21	16	17	2RXL7	2RXP9	2ZB39
10⅜	5¼	⅝	10	11¾	8	21	16	17	2RXL7	2RXP9	45J457
High Volume											
9	4½	⅞	9	10¾	6½	18	16	15	2RXL6	2RXP8	45J458
10⅜	4	⅞	10	11¾	5⅞	21	16	17	2RXL7	—	45J459

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.500"	0.750"	1.250"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	Totally Enclosed Fan-Cooled, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
6⅝	595	560	515	420	300	—	1725	¼	53	7C037 #	7AP74	7AP79	—	1C791
7¾	985	920	870	765	655	360	1725	⅓	57	7C038 #	7AP75	7AP80	7AP83	1C792
9	1005	968	930	850	773	480	1725	⅓	58	7C039 #	7AP76	7AP81	7AP84	2C889
9	1180	1160	1125	1035	855	—	1140	⅓	56	—	7AP77	7AP82	7AP85	2C938 *
10⅜	1510	1450	1400	1290	1200	1000	1725	¾	63	7C453	7AP78	7C454	7AP86	2C890
10⅜	2060	1970	1870	1710	1500	1020	1140	¾	61	7C648	—	7C649	7AP87	2C939 *

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 1.500"	1.750"	2.000"	2.250"	2.500"	2.750"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	Open Dripproof, 230/460V, 3-PHASE Item No.	Totally Enclosed Fan-Cooled, 208-230/460V, 3-PHASE Item No.	BLOWER WITHOUT MOTOR Item No.
High Volume														
9	1390	1250	1050	—	—	—	1725	1	58	7C408	7AP88	7C567	7AP90	4C118
10⅜	1848	1735	1610	1457	1288	1047	1725	1½	63	7C409	7AP89	7C568	7AP91	4C119

*# 115V only. † Values shown are estimated sound pressure levels. * Blower Nos. 2C938 and 2C939 supplied with No. 3CC03 rubber motor mount for extra-quiet operation.*

Single-Inlet Forward Curve Belt-Drive Blowers

- Heavy-gauge steel construction
- Continuous duty
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Adjustable top motor mount moves from top to rear mounting. Easily altered to required discharge position by drilling new motor mounting holes, rotating blower housing on base, and bolting in position. Motor is resilient-mounted and automatic reset thermal-protected.

High volume at low velocity. Shipped in bottom horizontal discharge position. Drive package components packed separately.

Note: Review OSHA codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.



Blower Without Drive Package

Wheel Dia. (in.)	Wheel Width (in.)	Shaft Dia. (in.)	Inlet Dia. (in.)	Discharge Height (in.)	Discharge Width (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	SHAFT & BEARING KIT Item No.
9	4½	⅝	9	10¾	6½	17	11	15	2RXL6	2RXP8	45J470
10⅜	5¼	¾	10	11¾	8	19	12	18	2RXL7	2RXP9	45J471
12½	6½	¾	13¼	13¼	9⅝	27	15	22	2RXL9	2RXR1	45J469

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Blower RPM	Motor HP	dBA @ 5 Feet †	Bearing Type	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	WITHOUT DRIVE PACKAGE** Item No.
9	1100	1000	890	800	475	—	1000	¼	46	Ball	7C651	7AP92	2C887
10⅜	1690	1600	1480	1370	1140	—	1000	½	51	Ball	7C652	7AP93	2C888
12½	#	#	#	2100	1980	1460	875	½	56	Ball	7C653	7AP94	2C800

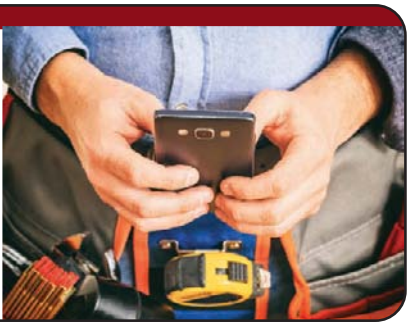
WARNING: Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels.
*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.



Single-Inlet Forward Curve Quiet Design Belt-Drive Blowers

- Sturdy arc-welded housing and frame
- Gray baked-on epoxy finish
- Max. inlet air temperature: 250°F
- Max. ambient temperature: 104°F

Extra-quiet, efficient blowers provide high volume performance. Adjustable to 8 standard positions. Ball bearings. Dynamically balanced, clockwise rotating steel wheel. V-belt drive with weatherproof drive cover included. Drive package components packed separately.

Models with a wheel diameter of 10½", 13½" and 16¼" are available on Grainger.com®.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.



Wheel Dia. (in.)	Shaft Dia. (in.)	Inlet Dia. (in.)	Discharge (in.) H	Discharge (in.) W	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	SHAFT & BEARING KIT Item No.
7¾	¾	8	8¼	5⅜	18	13⅝	24 15/16	2RXL5	2RXP7	45J491
9	¾	9	10¾	6½	18¾	14⅞	26 1/16	2RXL6	2RXP8	45J492
12¼	1	13¼	13¼	9⅝	27	30	22	2RXL9	2RXR1	45J466
15	1 3/16	16⅛	16¼	11¾	30	34	27	2RXN1	2RXR2	45J467
18¼	1 3/16	19⅝	19⅝	14¼	37	40	32	2RXN2	2RXR3	45J468
20	1 3/16	21½	21½	15⅞	40¼	34½	42 15/16	2RXN6	2RXR6	45J493
22¼	1 3/16	23⅞	24	17⅜	44	44	38	2RXN3	2RXR4	45J472
24½	1 7/16	26⅜	26¼	19¼	48	46	43	2RXN4	2RXR5	45J473

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.250"	0.500"	1.000"	1.250"	1.500"	2.000"	2.500"	3.000"	Blower RPM	Motor HP	dBA @ 5 Feet*	COMPLETE WITH DRIVE PACKAGE** 115/230V, 60 Hz, Open Dripproof Item No.	3-Phase, 230/460V, 60 Hz, Open Dripproof Item No.	115/230V, 60 Hz, Totally Enclosed Item No.	3-Phase, 230/460V, 60 Hz, Totally Enclosed Item No.	WITHOUT DRIVE PACKAGE** Item No.
7¾	750	637	—	—	—	—	—	—	1359	¼	53	7AG82	7AG83	7HP13	7HP14	3AXE8
	862	763	476	—	—	—	—	—	1518	⅓	55	7AG84	7AG85	7HP15	7HP16	
	1006	918	727	582	—	—	—	—	1725	½	58	7AG86	7AG87	7HP17	7HP18	
	1147	1068	909	816	696	—	—	—	1932	¾	61	7AG88	7AG89	7HP19	7HP20	
	#	1190	1045	969	883	562	—	—	2103	1	62	7HP21	7HP23	7HP22	7HP24	
9	1112	954	—	—	—	—	—	—	1116	⅓	55	7AG90	7AG91	7HP25	7HP26	3AXE9
	1177	1025	—	—	—	—	—	—	1166	½	58	7AG92	7AG93	7HP27	7HP28	
	1382	1244	955	651	—	—	—	—	1327	¾	61	7AG94	7AG95	7HP29	7HP30	
	1540	1408	1160	1006	689	—	—	—	1451	1	63	7AG96	7AG97	7HP31	7HP32	
	#	#	#	#	1559	1338	842	—	1870	1½	64	7HP33	7HP35	7HP34	7HP36	
12¼	1735	1490	—	—	—	—	—	—	690	⅓	51	7C488	7C491	7HP37	7HP38	2C797
	2045	1770	—	—	—	—	—	—	783	½	51	7C489	7C492	7HP39	7HP40	
	#	2260	1700	—	—	—	—	—	920	¾	57	7C490	7C493	7HP41	7HP42	
	#	#	2190	1900	1375	—	—	—	1029	1	62	7C888	7C889	7HP43	7HP44	
	#	#	#	#	2250	—	—	—	1172	1½	67	7HP45	7HP46	7HP47	7HP48	
	#	#	#	#	#	#	2440	—	1372	2	68	7HP49	7HP50	7HP51	7HP52	
	#	#	#	#	#	#	2660	2060	1457	3	69	7HP53	7HP54	7HP55	7HP56	
15	2645	2200	—	—	—	—	—	—	557	½	59	7C494	7C497	7HP57	7HP58	2C798
	#	2830	—	—	—	—	—	—	645	¾	62	7C495	7C505	7HP59	7HP60	
	#	3460	2720	1870	—	—	—	—	743	1	67	7C496	7C506	7HP61	7HP62	
	#	#	3300	2875	2050	—	—	—	814	1½	69	7C890	7C891	7HP63	7HP64	
	#	#	#	#	3300	2410	—	—	943	2	73	7HP65	7HP67	7HP66	7HP68	
	#	#	#	#	4050	3584	2560	—	1054	3	75	7HP69	7HP70	—	7HP72	
	#	#	#	#	#	#	4525	4100	1256	5	77	7HP73 †	7HP74 †	7HP75	7HP76	
18¼	3780	3255	—	—	—	—	—	—	477	¾	56	7C507	7C510	7HP77	7HP78	2C799
	#	3980	2880	—	—	—	—	—	542	1	62	7C892	7C894	7HP79	7HP80	
	#	4665	3690	—	—	—	—	—	608	1½	66	7C508	7C511	7HP81	7HP82	
	#	#	4890	4410	3635	—	—	—	699	2	71	7C509	7C512	7HP83	7HP84	
	#	#	5420	5050	4560	—	—	—	745	3	72	7C893	7C895	7HP85	7HP86	
	#	#	#	#	6324	5525	3798	—	908	5	74	7HP87 †	7HP88	7HP89	7HP90	
20	4482	3546	—	—	—	—	—	—	396	1	64	7AG98	7AG99	7HP91	7HP92	3AXF1
	5508	4796	—	—	—	—	—	—	464	1½	67	7AH00	7AH01	7HP93	7HP94	
	6039	5390	—	—	—	—	—	—	500	2	69	7AH02	7AH03	7HP95	7HP96	
	6911	6334	5009	—	—	—	—	—	560	3	71	7AH04	7AH05	7HP97	7HP98	
	8254	7755	6743	6158	5405	—	—	—	654	5	74	7AH06 †	7AH07	7HP99 †	7HR00	
	#	#	#	#	#	#	7560	5558	871	7½	78	—	7HR02	7HR01 †	7HR03	
22¼	5900	4410	—	—	—	—	—	—	356	1	61	7C708	7C711	7HR04	7HR07	3C009
	#	6030	—	—	—	—	—	—	412	1½	62	7C896	7C898	—	7HR08	
	#	7235	5290	—	—	—	—	—	458	2	64	7C709	7C712	7HR05	7HR09	
	#	#	7720	6660	4800	—	—	—	553	3	72	7C710	7C713	7HR06	7K295	
	#	#	9050	8100	7350	—	—	—	602	5	74	—	7C899	—	7K296	
	#	#	#	#	#	#	#	7350	803	7½	77	—	7K297	—	7K298	
24½	7820	6623	—	—	—	—	—	—	349	1½	56	7C714	7C717	7K299	7K301	3C010
	#	8210	4485	—	—	—	—	—	398	2	58	7C900	7C901	7K308	7K309	
	#	#	8280	6555	—	—	—	—	462	3	64	7C715	7C718	7K300	7K302	
	#	#	11,050	9800	9300	—	—	—	544	5	68	7K303 †	7C719	7K304 †	7K307	
	#	#	12,500	11,730	11,000	—	—	—	590	7½	71	7K305 †	7C902	7K306 †	7K310	
	#	#	#	#	#	11170	7608	—	653	10	73	—	7K311	—	7K312	

WARNING: Motor overload will result if blower is operated at static pressure below performance shown. * Values shown are estimated sound pressure levels.
***** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. † 230 volt only.***

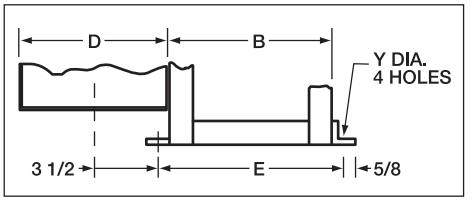
GA GRAINGER APPROVED

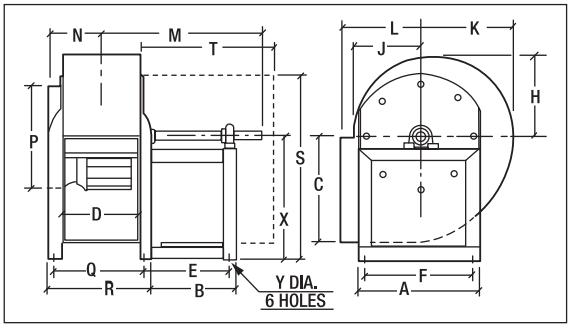
¾" and 1" Shafts and Bearings for Belt-Drive Blowers

Description	For Use With	Item No.
Blower Shaft, ¾" Dia. x 20"L, Max. HP ¾, Max. RPM 1000	Dayton Blowers 5NRC7 to 5NRC9, 5NRD0 to 5NRD7, 5UDU4, 5UDU5, 5VZU1, 4TL96 to 4TL99, 4TM01 and 4TM07 without Keyways and Standard Belt Drive Blowers	5VZU2
Blower Shaft, 1" Dia. x 25"L, Max. HP 1, Max. RPM 1000	Dayton Blowers 5ZCP0, 5ZCP1, 5ZCP2, 5ZCP6, 5ZCP7, 5ZCP8, 5NRC7, 5NRC8, 5NRC9, 5NRD0, 5UDU4, 5UDU5, 5VZU1, 5NRD1 Through 5NRD7 Without Keyways and Standard Belt Drive Blowers	5VZU3
Bearing Kit, Self Aligning, Max. HP ¾, Max. RPM 1000, Includes Thrust washer, Locking Collar and Rubber Isolator, Pkg. Qty. 2	Belt Drive Furnace Blowers	5VZU4
Bearing Kit, Self Aligning, Max. HP 1, Max. RPM 1000, Includes Thrust washer, Locking Collar and Rubber Isolator, Pkg. Qty. 2	Belt Drive Furnace Blowers	5VZU5









Backward Incline Belt-Drive Blowers

- Nonoverloading, dynamically balanced wheels
- Sizes 10½" to 24½" feature flat blade wheel; sizes 27" to 36½" have airfoil wheel
- Both wheel styles provide full Class 1 performance range
- Welded steel housing
- Gray baked-on epoxy finish
- Max. inlet air temp.: 250°F
- Max. ambient: 104°F
- Pillow block ball bearings

Motor cannot be overloaded at any given rpm and horsepower regardless of static pressure applied to the system. Clockwise rotation viewed from drive side. Blowers are shipped in bottom horizontal discharge position and can be changed in the field to 7 additional standard discharge positions. Sizes 10½" to 20" have variable-pitch sheaves; larger sizes have fixed sheave drive. Include weatherproof drive cover. Drive packages are packed separately.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Wheel Dia. (in.)	Dimensions (in.)																		INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT SHAFT & BEARING KIT Item No.	REPLACEMENT BLOWER WHEEL Item No.
	A	B	C	D	E	F	H	J	K	L	M	N	P	Q	R	S	T	X	Y				
10½	12⅞	13	11¾	8	14¼	10¾	7⅛	6¾	9⅛	8¹⁄₁₆	19⅞	6	12⅞	‡	‡	20½	17	14	7⁄16	2RXN5	2RXP9	45J486	—
12¼	16⅜	13½	13¼	9⅝	13½	14¾	10⅛	8½	11½	10½	23⅛	6⅜	13¼	11¼	12¾	25¼	20	17	½	2RXL9	2RXR1	45J490	—
15	19¼	15½	16¼	11¾	15½	17⅝	12⅜	10⅜	14⅛	12⅜	26⅞	7½	16⅛	13⅜	14⅞	27⅝	22	17⅞	½	2RXN1	2RXR2	45J476	—
18¼	23⅛	17	19⅜	14¼	17½	21½	15	12⅜	17⅛	14⅜	30⅜	9⅛	19⅜	15¼	18¼	33⅜	25	21⅞	½	2RXN2	2RXR3	45J477	—
20	25	17	21½	15⅞	17	23⅜	16½	13¾	18¾	15¾	31½	10	21½	17⅛	20⅛	36¼	25	23¾	½	2RXN6	2RXR6	45J474	2ZB40
24½	30¼	16½	26¼	19¼	16¾	23⅜	20⅛	16⅞	23	19⅞	33⅜	11¾	26⅜	21¼	24½	42⅛	26	27¾	½	2RXN4	2RXR5	45J475	—
27	33	16½	29	21¼	16½	26¼	22⅛	18½	25¼	21½	34⅝	12⅝	29	23¾	26½	47	26	30½	½	2RXN7	2RXR7	45J481	—
30	36¼	16½	32¼	23⅜	16½	29½	24⅝	20½	28⅛	23⅝	36	13¾	32¼	26	28¾	51⅞	27	33¾	½	2RXN8	2RXR8	45J482	—
36½	43⅛	21⅜	39¼	28½	21⅝	36⅞	30	24⅞	34⅛	28	43¼	16¼	39	31	33¾	63¾	30⅜	42⅛	⅞	2RXN9	2RXR9	45J483	—

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown*						Blower RPM	Motor HP	Max. BHP	dBA @ 5 ft.	COMPLETE WITH DRIVE PACKAGE**				WITHOUT DRIVE PACKAGE** Item No.
	0.500"	1.000"	2.000"	3.000"	4.000"	5.000"					115/230V, 60 Hz, 1-Phase Open Dripproof Item No.	230/460V, 60 Hz, 3-Phase Open Dripproof Item No.	115/230V, 60 Hz, 1-Phase Totally Enclosed Item No.	230/460V, 60 Hz, 3-Phase Totally Enclosed Item No.	
10½	1140	948	—	—	—	—	1865	¼	0.25	62	7H123	7H150	7K332	7K333	3C716 ‡
	1282	1126	—	—	—	—	2150	⅓	0.33	64	7H124	7H151	7K334	7K335	
	1506	1383	1005	—	—	—	2350	½	0.50	67	7H125	7H152	7K337	7K336	
	1750	1649	1389	—	—	—	2685	¾	0.75	69	7H126	7H153	7K339	7K338	
	1944	1856	1642	1333	—	—	2955	1	1.00	72	7H127	7H154	7K341	7K340	
	2250	2175	2006	1795	1513	—	3385	1½	1.50	75	7H128	7H155	7K343	7K342	
	—	—	—	—	1670	1272	3515	2	1.99	75	—	7K344	7K347	7K345	
	—	—	—	—	1670	1272	3515	2	1.99	75	7K346	—	—	—	
12¼	1628	1313	—	—	—	—	1485	⅓	0.33	61	7H129	7H156	7K349	7K348	4C333
	1932	1693	—	—	—	—	1700	½	0.49	64	7H130	7H157	7K350	7K351	
	2274	2081	1503	—	—	—	1950	¾	0.75	67	7H131	7H158	7K353	7K352	
	2536	2367	1944	—	—	—	2145	1	0.99	68	7H132	7H159	7K355	7K354	
	2947	2803	2476	2020	—	—	2455	1½	1.49	72	7H133	7H160	7K356	7K357	
	3275	3145	2864	2525	1950	—	2705	2	1.99	73	7H134	7H161	7K358	7K359	
	—	—	—	—	—	1888	2965	3	2.99	75	7K360	7K361	—	7K362	
15	2938	2567	—	—	—	—	1430	¾	0.75	66	7H135	7H162	7K363	7K364	3C073
	3302	2980	—	—	—	—	1575	1	1.00	68	7H136	7H163	7K365	7K366	
	3854	3583	2939	—	—	—	1800	1½	1.50	71	7H137	7H164	7K367	7K368	
	4289	4048	3506	2720	—	—	1980	2	2.00	73	7H138	7H165	7K369	7K370	
	4969	4762	4317	3799	3057	—	2265	3	2.99	76	—	7H166	—	7K371	
	—	—	—	—	3840	2880	2450	5	5.00	79	—	7K372	—	7K373	
18¼	4131	3595	—	—	—	—	1160	1	1.00	65	7H140	7H167	7K374	7K375	3C074
	4846	4408	—	—	—	—	1325	1½	1.50	68	7H141	7H168	7K376	7K377	
	5418	5035	4092	—	—	—	1460	2	2.00	69	7H142	7H169	7K378	7K379	
	6293	5972	5235	4224	—	—	1670	3	3.00	73	—	7H170	—	7K380	
	7565	7305	6731	6075	5317	—	1980	5	5.00	76	—	7H171	—	7K381	
20	5306	4727	—	—	—	—	1130	1½	1.49	68	7H145	7H172	7K382	7K383	3C048
	5917	5421	3933	—	—	—	1240	2	1.97	69	7H146	7H173	7K384	7K385	
	6923	6520	5495	3600	—	—	1425	3	2.99	72	—	7H174	—	7K386	
	8338	8017	7272	6314	—	—	1690	5	4.99	75	—	7H175	—	7K387	
	9262	8977	8339	7574	—	—	1865	7½	6.64	78	—	7H176	—	7K388	
24½	7581	6705	—	—	—	—	870	2	1.97	67	7H177	7H178	7K389	7K390	3C049
	8871	8175	5990	—	—	—	995	3	2.96	70	—	7H179	—	7K391	
	10,735	10,190	8844	6408	—	—	1180	5	4.92	74	—	7H180	—	7K392	
	12,419	11,961	10,910	9535	7262	—	1350	7½	7.37	76	—	7H181	—	7K393	
	13,745	13,336	12,430	11,340	—	—	1485	10	9.82	80	—	7H182	—	7K394	
27	7681	6864	—	—	—	—	855	2	1.99	67	—	7H183	—	7K395	3C109
	9017	8327	6696	—	—	—	980	3	3.00	70	—	7H184	—	7K396	
	10,903	10,329	9106	7575	—	—	1160	5	4.98	74	—	7H185	—	7K397	
	12,606	12,106	11,076	9935	8514	—	1325	7½	7.42	77	—	7H186	—	7K398	
	14,089	13,639	12,725	11,757	10,670	—	1470	10	10.00	79	—	7H187	—	7K399	
30	10,228	9298	6869	—	—	—	820	3	2.96	69	—	7H188	—	7K400	3C110
	12,474	11,712	10,039	7608	—	—	975	5	5.00	73	—	7H189	—	7K401	
	14,468	13,807	12,425	10,820	8272	—	1115	7½	7.49	76	—	7H190	—	7K402	
	16,020	15,419	14,188	12,843	11,374	8789	1225	10	9.93	78	—	7H191	—	7K403	
36½	15,826	14,511	11,278	—	—	—	700	5	4.94	73	—	7H192	—	7K404	3C111
	18,430	17,299	14,816	11,186	—	—	800	7½	7.37	76	—	7H193	—	7K405	
	20,614	19,599	17,457	14,881	—	—	885	10	9.97	78	—	7H194	—	7K406	
	23,794	22,907	21,091	19,110	16,852	—	1010	15	14.84	81	—	7H195	—	7K407	
	—	—	—	—	—	16,852	1083	20	19.84	81	—	7K408	—	7K409	

** Performance shown is for installation Type B: free inlet, ducted outlet. Power ratings (BHP) do not include drive losses. Performance ratings do not include the effects of appurtenances (accessories). ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. ‡ No. 3C716 has no inlet side support and has only 4 mounting holes.*

High-Pressure Radial Blade Belt-Drive Industrial Blowers

Dayton®

- Housing can be rotated to 8 discharge positions in each rotation
- 12¼" blower handles stringy material, grain, sawdust, granular material, and particle-laden air of nonexplosive gases
- 15⅝" to 36½" blowers handle grain, sawdust, granular material, and particle-laden air of nonexplosive gases
- Max. inlet air temp.: 250°F; increases to 450° with optional heat slinger
- Max. ambient: 104°F

Units are built for CW rotation and bottom horizontal discharge, but can easily be converted to CCW rotation by removing and remounting housing opposite of standard. With weatherproof drive covers. Heavy-gauge, continuous arc welded steel construction with gray baked-on epoxy finish. Blowers have 6 mounting points.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

WARNING: Ductwork required to prevent motor overload.

Optional Heat Slinger—Split-type aluminum slinger mounts on blower shaft between housing and bearing. Cools bearing, allowing blower to handle inlet air temps. up to 450°F. When used with heat shield between motor and housing, blower can handle inlet temperatures up to 500°F.



No. 3C108



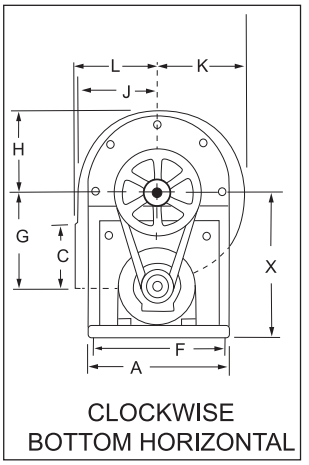
No. 4C791

Wheel Dia. (in.)	Shaft Dia. (in.)	Housing H (in.)	Housing W (in.)	Housing L (in.)	Discharge H (in.)	Discharge W (in.)	Inlet Dia. (in.)	REPLACEMENT WHEEL Item No.	REPLACEMENT SHAFT & BEARING KIT Item No.	OPTIONAL HEAT SLINGER Item No.	RECOMMENDED FLOOR-MOUNT VIBRATION ISOLATORS, Mason Industries, 6 REQUIRED Item No.
12¼	1 3/16	19 3/16	6	19¼	7	6	7¼	2ZB43	45J484	4C784	4C875
15⅝	1 3/16	24⅜	7½	23⅞	9	7½	9¼	2ZB41	45J478	4C784	4C955
19⅛	1 7/16	29¾	9 1/16	28⅝	11	9 1/16	11¼	2ZB45	45J479	4C790	4C876
22⅝	1 1 1/16	35⅛	10½	33 1/16	13	10½	13¼	2ZB42	45J480	4C791	4C876
26⅛	1 15/16	40⅝	12⅛	39⅜	15	12⅛	15¼	—	45J485	4C792	4C961
29⅝	1 15/16	46⅛	13¾	44 1/16	17	13¾	17¼	—	45J494	4C792	4C988
33	2 3/16	51¼	15⅜	49 1/16	19	15⅜	19¼	—	45J495	4DKK9	4C988
36½	2 1/16	56⅞	17	54	21	17	21¼	—	45J496	4DKL1	4C988

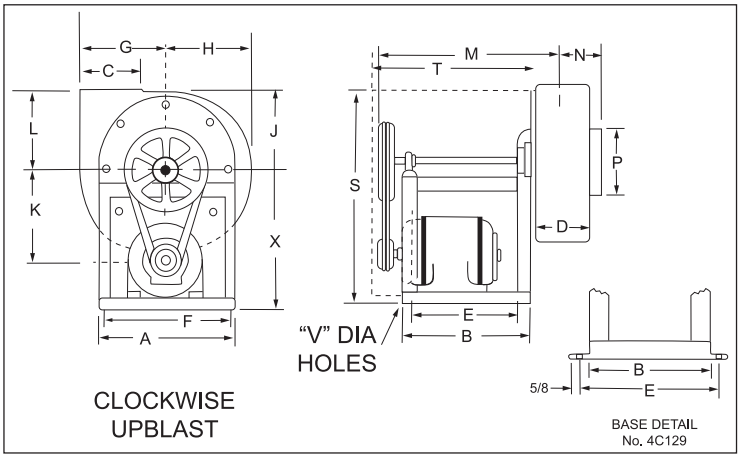
Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	Blower RPM	Motor HP	dBA @ 5 Ft. †	Volts 60 Hz	Phase	COMPLETE WITH DRIVE PACKAGE** Dripproof Motor Item No.	Totally Enclosed Motor Item No.	WITHOUT DRIVE PACKAGE** Item No.
12¼	1455	1290	1090	840	515	—	—	—	—	—	3160	3	78	230/460	3	7C240	7C279	
	#	#	1340	1145	915	625	—	—	—	—	3390	3	79	230/460	3	7C241	7C280	
	#	1740	1610	1455	1290	1080	840	515	—	—	3685	5	82	230/460	3	7C242	7C281	3C539
	#	1795	1660	1525	1360	1165	955	675	—	—	3750	5	82	230/460	3	7C243	7C282	
	#	#	1780	1650	1505	1330	1135	910	620	—	3870	5	84	230/460	3	7C244	7C313	
15⅝	#	1725	1430	960	—	—	—	—	—	—	2275	3	78	230/460	3	7C245	7C314	
	2290	2050	1810	1540	1120	—	—	—	—	—	2460	5	79	230/460	3	7C246	7C319	
	#	2330	2115	1890	1630	1250	—	—	—	—	2625	5	81	230/460	3	7C247	7C321	
	2880	2665	2450	2250	2040	1795	1485	—	—	—	2815	7½	83	230/460	3	7C248	7C322	3C106
	#	2850	2630	2425	2230	2015	1765	1420	—	—	2920	7½	84	230/460	3	7C249	7C325	
	#	#	2845	2645	2460	2260	2060	1810	1470	—	3045	10	87	230/460	3	7C250	—	
	#	#	#	2900	2720	2540	2360	2160	1930	1615	3180	10	89	230/460	3	7C251	—	
	#	#	#	#	#	2795	2620	2435	2245	—	3335	10	90	230/460	3	7C252	—	
19⅛	3345	2985	2620	2190	1490	—	—	—	—	—	1990	7½	81	230/460	3	7C253	7C329	
	#	3430	3115	2765	2360	1735	—	—	—	—	2125	7½	82	230/460	3	7C257	7C331	
	4235	3900	3575	3260	2940	2560	2020	—	—	—	2270	10	84	230/460	3	7C260	7C333	
	#	#	3840	3545	3245	2910	2515	1920	—	—	2350	10	85	230/460	3	7C261	7C334	3C107
	#	4420	4195	3900	3610	3315	3005	2605	2030	—	2460	15	89	230/460	3	7C262	7C335	
	#	#	#	4360	4075	3805	3530	3230	2875	2400	2590	15	90	230/460	3	7C263	7C336	
	#	#	#	#	4380	4190	3935	3675	3395	3047	2715	15	91	230/460	3	7C264	7C341	
22⅝	#	4730	4260	3780	3170	2190	—	—	—	—	1780	10	83	230/460	3	7C265	7C342	
	5750	5270	4810	4360	3855	3270	2315	—	—	—	1880	15	85	230/460	3	7C266	7C343	
	#	5840	5390	4985	4550	4080	3535	2665	—	—	1985	15	87	230/460	3	7C267	7C344	3C108
	6700	6300	5910	5500	5100	4685	4240	3705	2955	—	2090	20	91	230/460	3	7C268	—	
	#	#	6200	6050	5665	5270	4900	4475	3985	3260	2185	20	92	230/460	3	7C269	—	
	#	#	#	#	5970	5585	5215	4835	4400	3885	2250	20	93	230/460	3	7C270	—	
26⅛	6925	6260	5635	4955	4135	—	—	—	—	—	1540	15	85	230/460	3	7C271	7C351	
	#	#	6435	5830	5200	4385	3145	—	—	—	1630	15	87	230/460	3	7C272	7C352	
	#	7570	6980	6350	5840	5175	4370	—	—	—	1700	20	88	230/460	3	7C273	7C359	
	#	8200	7755	7185	6660	6080	5490	4735	3600	—	1795	25	92	230/460	3	7C274	7C363	3C540
	#	#	8110	7660	7130	6605	6065	5415	4580	—	1860	25	93	230/460	3	7C275	7C364	
	#	#	#	#	7630	7105	6600	6045	5415	4400	1900	25	94	230/460	3	7C276	7C369	
	#	#	#	#	#	7420	6890	6380	5790	5040	1950	25	95	230/460	3	7C277	7C386	
29⅝	6131	5123	—	—	—	—	—	—	—	—	1130	15	88	230/460	3	7AH43	7AH44	
	7492	6586	5669	4522	—	—	—	—	—	—	1242	20	90	230/460	3	7AH47	7AH48	
	#	7612	6762	5894	4760	—	—	—	—	—	1325	15	89	230/460	3	7AH45	7AH46	
	9114	8298	7483	6665	5802	—	—	—	—	—	1382	25	92	230/460	3	7AH51	7AH52	
	#	#	8353	7582	6800	5956	—	—	—	—	1453	20	91	230/460	3	7AH49	7AH50	3AXF2
	10,243	9480	8719	7960	7198	6407	5365	—	—	—	1483	30	94	230/460	3	7AH55	—	
	#	#	#	#	8592	7883	7159	6352	—	—	1592	25	93	230/460	3	7AH53	7AH54	
	12,543	11,870	11,200	10,534	9870	9205	8541	7867	7156	6242	1696	40	95	230/460	3	7AH59	—	
	#	#	#	#	#	#	8746	8083	7391	6574	1712	30	95	230/460	3	7AH57	—	
	#	#	#	#	#	#	#	9624	9007	8380	1831	40	96	230/460	3	7AH61	—	
33	8020	6798	5319	—	—	—	—	—	—	—	1032	15	89	230/460	3	7AH63	7AH64	
	9834	8727	7622	6490	—	—	—	—	—	—	1140	20	91	230/460	3	7AH67	7AH68	
	10,272	9192	8115	6992	—	—	—	—	—	—	1167	25	92	230/460	3	7AH71	7AH72	
	#	#	8349	7254	5640	—	—	—	—	—	1180	15	90	230/460	3	7AH65	7AH66	
	10,935	9888	8846	7796	6594	—	—	—	—	—	1208	30	93	230/460	3	7AH75	7AH76	
	#	#	9649	8647	7605	6125	—	—	—	—	1254	20	86	230/460	3	7AH69	7AH70	3AXF3
	12,304	11,329	10,352	9381	8401	7320	—	—	—	—	1295	40	95	230/460	3	7AH79	7AH80	
	#	11,653	10,691	9734	8775	7756	—	—	—	—	1315	25	92	230/460	3	7AH73	7AH74	
	13,711	12,803	11,891	10,981	10,074	9162	8193	6801	—	—	1387	50	94	230/460	3	7AH83	7AH84	
	#	#	#	11,472	10,585	9696	8780	7717	—	—	1416	30	94	230/460	3	7AH77	7AH78	
	#	#	13,955	13,121	12,286	11,455	10,625	9783	8882	7684	1515	40	96	230/460	3	7AH81	7AH82	
	#	#	#	14,049	14,049	13,269	12,491	11,716	10,938	10,136	1621	50	97	230/460	3	7AH85	7AH86	
36½	9641	7877	—	—	—	—	—	—	—	—	925	15	83	230/460	3	7AH87	7AH88	
	10,915	9480	7463	—	—	—	—	—	—	—	981	20	85	230/460	3	7AH91	7AH92	
	#	10,179	8480	6470	—	—	—	—	—	—	1009	15	83	230/460	3	7AH89	7AH90	
	11,597	10,251	8584	6542	—	—	—	—	—	—	1012	25	85	230/460	3	7AH95	7AH96	
	#	#	11,093	9591	7569	—	—	—	—	—	1103	20	85	230/460	3	7AH93	7AH94	
	14,113	12,933	11,738	10,391	8510	—	—	—	—	—	1130	30	88	230/460	3	7AH99	7AJ00	3AXF4
	#	13,086	11,902	10,586	8776	—	—	—	—	—	1137	25	86	230/460	3	7AH97	7AH98	
	15,661	14,548	13,443	12,309	11,023	9270	7708	—	—	—	1205	40	89	230/460	3	7AJ03	7AJ04	
	#	#	#	#	12,719	11,459	9764	8231	—	—	1270	30	86	230/460	3	7AJ01	7AJ02	
	17,135	16,082	15,037	13,994	12,913	11,688	10,067	8435	—	—	1278	50	89	230/460	3	7AJ07	7AJ08	
	#	#	15,914	14,905	13,883	12,788	11,482	9749	8419	—	1319	40	89	230/460	3	7AJ05	7AJ06	
	17,949	16,930	15,914	14,905	13,883	12,788	11,482	9749	8419	—	1319	50	89	230/460	3	7AJ09	7AJ10	

Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels.
*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*





CLOCKWISE
BOTTOM HORIZONTAL



CLOCKWISE
UPBLAST

BASE DETAIL
No. 4C129

High-Pressure Radial Blade Belt-Drive Blowers

- 10⁹⁄₁₆" to 13½" dia., self-cleaning, radial blade wheel
- CW or CCW rotation
- Steel housing with gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient: 104°F

Great for industrial applications where clean or light dust loading conditions exist. Blowers come complete with weatherproof drive cover and dynamically balanced, heavy-duty die-cast aluminum wheels. Self-aligning ball bearing pillow blocks. Bottom horizontal discharge, but can be changed to 7 other discharge directions.

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301.

Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

BLOWERS WITH DRIVE PACKAGE

Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed in table, except No. 4C129 cannot be set up for downblast operation. Drive package components are packed separately.

Wheel (in.)		Shaft	Inlet	Discharge (in.)		Dimensions (in.)			INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.	SHAFT & BEARING KIT Item No.
Dia.	W	Dia. (in.)	Dia. (in.)	H	W	H	W	L				
10⁹⁄₁₆	3	¾	6	4	3½	21	20	16	2RXP3	2RXT3	22FT68	45J487
12½	3	1	7	5	4	25	24	18	2RXP4	2RXT4	2ZB37	45J488
13½	4⅜	1	8	7⅛	5¾	26	25	23	2RXP5	2RXT5	2ZB32	45J489

Wheel Dia. (in.)	Dimensions (in.)																	
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	T	V	X
10⁹⁄₁₆	12⅞	13	4	3½	14¼	10¾	8⅝	7¼	6½	8	7⅝	17¾	2⅞	—	20⁹⁄₁₆	17	7⁄₁₆	14
12½	16⅜	15	5	4	13½	14¾	10	8¼	7½	9	9⅝	20½	3⅛	—	25¼	20	⅜	17
13½	17⅜	15	7⅛	5¾	13½	16	11½	10½	9⅝	11⅜	11	21	4	—	25⅞	20	⅜	17

Wheel Dia. (in.)	CFM & RPM @ Static Pressure Shown										Motor HP	dBA @ 5 Feet †	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed Fan Cooled 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed Fan Cooled 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
		1"	2"	3"	4"	5"	6"	7"	8"	9"	10"						
10⁹⁄₁₆	CFM	496	445	389	323	297	—	—	—	—	—	½	80	7D754	—	7AV04	7AV05	4C129
	RPM	2500	2600	2700	2800	3000	—	—	—	—	—							
	CFM	573	532	488	442	392	333	249	—	—	—	¾	86	7D755	—	—	—	
	RPM	2800	2900	3000	3100	3200	3300	3400	—	—	—							
	CFM	648	614	579	527	471	427	378	317	—	—	1	87	7D756	7AV06	7AV07	7AV08	
	RPM	3100	3200	3300	3350	3400	3500	3600	3700	—	—							
	CFM	709	719	692	651	607	554	510	475	438	410	1½	90	7AV09	7AV10	7D757	7AV11	
	RPM	3350	3600	3700	3750	3800	3830	3900	4000	4100	4225							
12½	CFM	757	695	629	579	521	442	386	—	—	—	1	83	7D758	7AV12	7AV13	7AV14	4C130
	RPM	2450	2500	2550	2650	2750	2850	3000	—	—	—							
	CFM	887	836	784	728	693	626	540	468	—	—	1½	86	7AV15	7AV16	7D759	7AV17	
	RPM	2800	2850	2900	2950	3050	3100	3150	3250	—	—							
	CFM	978	933	887	844	792	738	677	639	595	572	2	90	7AV18	7AV19	7D760	7AV20	
	RPM	3050	3100	3150	3200	3250	3300	3350	3450	3550	3680							
	CFM	1141	1103	1066	1030	993	955	915	873	827	776	3	93	7AV21	—	7AV22	7D765	
	RPM	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950							
13½	CFM	1007	901	797	661	433	408	—	—	—	—	1	83	7D766	7AV23	7AV24	7AV25	4C131
	RPM	1925	2000	2100	2200	2300	2500	—	—	—	—							
	CFM	1191	1092	980	895	726	660	590	579	—	—	1½	85	7AV26	7AV27	7D767	7AV28	
	RPM	2200	2250	2300	2400	2450	2600	2750	2920	—	—							
	CFM	1321	1236	1144	1084	987	884	785	579	—	—	2	89	7AV29	7AV30	7D768	7AV31	
	RPM	2400	2450	2500	2600	2670	2750	2850	2920	—	—							
	CFM	1544	1477	1407	1347	1266	1157	1106	948	741	—	3	92	7AV32	—	7AV33	7D769	
	RPM	2750	2800	2850	2920	2970	3000	3100	3120	3150	—							
	CFM	#	#	#	1339	1232	1157	1084	1051	919	821	3	93	7AV34	—	7AV35	7D770	
	RPM	#	#	#	2910	2930	3000	3080	3200	3250	3340							
	CFM	1857	1774	1721	1660	1610	1550	1486	1464	1393	1316	5	96	7AV36 *	7AV37 *	7D771	7AV38	
	RPM	3250	3250	3300	3340	3400	3450	3500	3600	3650	3700							

*# Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels. * 230V only.*
*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Radial Blade Direct-Drive Blowers

- Housing can be rotated to 8 discharge positions in each rotation
- Welded 16-ga. steel housing and base
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient: 104°F

Self-cleaning, cast-aluminum wheel can be used to convey stringy or straw-like material and is perfectly balanced and aligned. Units are built for CW rotation and bottom horizontal discharge, but can easily be converted to CCW rotation by removing and remounting housing opposite of standard. Nos. 2C862 to 2C864 have 4 mounting points. Nos. 4C217 and 4C121 have 6 mounting points. Motor packed separately when ordered with blower. For exhaust systems where air contains dirt, lint, dust, and other lightweight foreign material.

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Note: Review OSHA Codes. OSHA complying guards are required where fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.



Blower With Motor

Wheel Dia. (in.)	Wheel W (in.)	Wheel Bore (in.)	Inlet Dia. (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
7¾	4 1/16	½	8	15	15	14	2RXL5	2RXP7	45J460
9	5	½	9	16	16	16	2RXL6	2RXP8	45J461
10⅜	5 11/16	⅝	10	19	18	17	2RXL7	2RXP9	45J462
12½	7 9/16	⅝	13¼	27	22	22	2RXL9	2RXR1	2ZB36
13½	8⅛	⅞	14½	28	23	23	2RXL8	2RXT6	2ZB35

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.0"	0.250"	0.500"	0.750"	1.000"	1.500"	2.000"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR: Open Dripproof, 115/230V, 1-Phase Item No.	Totally Enclosed Fan-Cooled, 115/230V, 1-Phase Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	Totally Enclosed Fan-Cooled, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
7¾	533	448	334	93	—	—	—	1725	⅛	64	7C552 *	7AT78 *	—	—	2C862
9	909	788	655	462	—	—	—	1725	¼	69	7C553 *	7AT79	7AT80	—	2C863
10⅜	1593	1457	1309	1134	916	97	—	1725	¾	75	7C554 *	7AT81	7C720	7AT82	2C864
12½	2461	2331	2179	2007	1807	1252	166	1725	1½	79	7C555	7AT83	7C556	7AT84	4C217
13½	3393	3221	3046	2863	2664	2164	1181	1725	2	81	—	7AT85	7C639	7AT86	4C121

*† Values shown are estimated sound pressure levels. * 115V only.*

Radial Blade High-Pressure Direct-Drive Blowers

- Housing can be rotated to 8 discharge positions in each rotation
- Max. inlet air temp.: 180°F
- Max. ambient: 104°F

Paddle-type, self-cleaning, die-cast wheels rotate clockwise and are precision balanced for top performance. Bottom horizontal discharge. Great for small-ducted dust exhaust systems and wherever dust collection bags are necessary.

For proper installation, floor-mount vibration isolators (No. 4C875, page 2983) are recommended as follows:

For steel models, order 4 vibration isolators for all except No. 4C330, (order 6 vibration isolators for No. 4C330).

For stainless steel models, order 4 vibration isolators for all except No. 45J503, (order 6 vibration isolators for No. 45J503).

For aluminum models, order 4 vibration isolators for all except No. 45J509, (order 6 vibration isolators for No. 45J509).

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Motor overload will result if blower is operated at static pressure below performance shown.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.



Blower without Motor

Wheel Dia. (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
7¾	2RXP1	2RXT1	45J463
9	2RXP2	2RXT2	2ZB44 **
9	2RXP2	2RXT2	45J464 **
10 9/16	2RXP3	2RXT3	2ZB33
12½	2RXP4	2RXT4	45J465
13½	2RXP5	2RXT5	2ZB31

Wheel Dia. (in.)	Shaft Dia. (in.)	CFM @ Static Pressure Shown, 3450 RPM 1"	2"	3"	4"	5"	6"	7"	8"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR: Totally Enclosed, 115/230V, 1-Phase Item No.	Totally Enclosed, 230/460V, 3-Phase Item No.	Open Dripproof, 115/230V, 1-Phase Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
Assembled, Welded 16-ga. Steel Housing, Gray Baked-on Epoxy Finish																	
7¾	⅝	256	216	165	70	—	—	—	—	3500	⅓	74	48LX10	48LX11	—	—	—
8 15/16	⅝	445	399	346	282	195	—	—	—	3500	¾	77	48LX12	48LX13	—	—	—
10 9/16	⅝	746	692	635	575	508	431	329	—	3500	1½	84	48LX14	48LX15	—	—	—
12½	1⅛	1145	1090	1033	974	911	842	765	672	3500	3	90	—	48LX16	—	—	—
13½	1⅛	2037	1952	1866	1777	1685	1587	1482	1367	3500	5	92	—	48LX17	—	—	—
Unassembled, Welded 16-ga. Steel Housing, Gray Baked-on Epoxy Finish																	
7¾	½	252	210	157	—	—	—	—	—	3450	½	74	7D748	7AT88	7D747	7AT87	2C940
9	½	#	391	336	270	173	—	—	—	3450	½	77	7D750	7AT90	7D749	7AT89	2C820
	⅝	437	391	336	270	173	—	—	—	3450	¾	77	7E253	7AT92	7E252	7AT91	6YG63
10 9/16	⅝	#	#	#	559	491	410	297	—	3450	1	84	7AT93	7AT95	7C447	7AT94	4C108
	⅝	734	679	621	559	491	410	297	—	3450	1½	84	—	7AT97	7AT96	7D751	4C108
12½	⅞	1127	1071	1014	953	888	817	736	638	3475	3	90	—	—	7AT98	7C561	4C329
	1⅛	1127	1071	1014	953	888	817	736	638	3475	3	90	—	7AT99	—	—	6XWG9
13½	1⅛	#	#	1832	1741	1647	1547	1438	1319	3430	5	92	7AU01 *	7C487	7AU00 *	7C562	4C330
	1⅛	2005	1919	1832	1741	1647	1547	1438	1319	3460	7½	92	—	—	—	7D752	4C330
Unassembled, Welded 16-ga. Stainless Steel Housing																	
7¾	½	252	210	157	—	—	—	—	—	3450	½	74	7DA72	7DA74	7DA71	7DA73	45J497
9	½	#	391	336	270	173	—	—	—	3450	½	77	7DA80	7DA82	7DA79	7DA81	45J498
	⅝	437	391	336	270	173	—	—	—	3450	¾	77	7DA88	7DA90	7DA87	7DA89	45J499
10⅝	⅝	734	679	621	559	491	410	297	—	3450	1½	84	—	7DC01	—	7DA95	45J501
	⅝	#	#	—	559	491	410	297	—	3450	1	84	—	7DA99	7DA96	7DA98	45J501
	⅝	#	#	—	—	—	—	—	—	3450	1	84	7DA97	—	—	—	45J501
	⅝	734	679	621	559	491	410	297	—	3450	2	84	—	—	7DC00	—	45J501
12½	⅞	1127	1071	1014	953	888	817	736	638	3450	3	90	—	—	7DC09	7DC10	45J502
13½	1⅛	#	#	1832	1741	1647	1547	1438	1319	3450	5	92	7DC18 *	7DC21	7DC17 *	7DC20	45J503
Unassembled, Welded Aluminum Housing																	
7¾	½	252	210	157	—	—	—	—	—	3450	½	74	7DA76	7DA78	7DA75	7DA77	45J504
9	½	#	391	336	270	173	—	—	—	3450	½	77	7DA84	7DA86	7DA83	7DA85	45J505
	⅝	437	391	336	270	173	—	—	—	3450	¾	77	7DA92	7DA94	7DA91	7DA93	45J506
10⅝	⅝	734	679	621	559	491	410	297	—	3450	1½	84	—	7DC08	—	7DC02	45J507
	⅝	#	#	—	559	491	410	297	—	3450	1	84	—	7DC06	7DC03	7DC05	45J507
	⅝	#	#	—	—	—	—	—	—	3450	1	84	7DC04	—	—	—	45J507
	⅝	734	679	621	559	491	410	297	—	3450	2	84	—	—	7DC07	—	45J507
12½	⅞	1127	1071	1014	953	888	817	736	638	3450	3	90	—	—	7DC13	7DC14	45J508
13½	1⅛	#	#	1832	1741	1647	1547	1438	1319	3450	5	92	7DC23 *	7DC26	7DC22 *	7DC25	45J509

*# Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels. * 230V only.*
*** Replacement blower wheel No. 2ZB44 is for use with No. 2C820; No. 45J464 is for use with No. 6YG63.***

Utility Exhaust Blowers

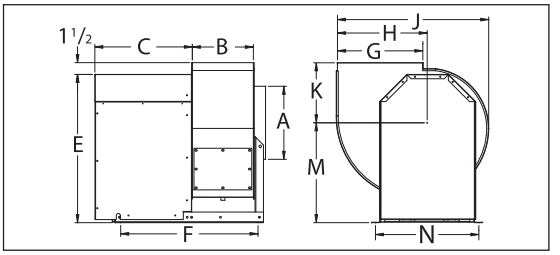


- For spark-resistant industrial applications
- Aluminum wheel with shaft seal and rub ring

Scroll is clockwise rotation and can be rotated in 45° increments to 8 positions; shipped in upblast position. Units feature bolted access door and gray polyester coating. Weather hood included.

Note: Review OSHA Codes. OSHA complying guards required when fan blades are exposed and within reach of personnel.

WARNING: Use a hazardous location motor where flammable vapors are involved.



Direct-Drive—Nos. 488V85 and 488V87 feature electronically commutated (EC) motors providing up to 70% energy savings. Potentiometer dial on motor allows speed control down to 80%. For internal or external mounting. UL and C-UL Listed.

- UL-705 Listed for power ventilators
- Max. inlet temp.: 180ºF
- For optional EC Control Kits Nos. 43Y140, 35YV92, and 35YV94 see page 2955

Belt-Drive—For commercial kitchen exhaust applications. 1" threaded drain connection point on bottom of blower. Fan motor and drive package components packed separately. UL and C-UL Listed. Blower is only permissible for UL-762 applications when mounted on exterior of the building, scroll must remain in upblast position for proper grease draining.

- UL-762 Listed for Restaurant Exhaust Appliances (YZHW)
- Max. inlet air temp.: 300°F
- Max. ambient: 104°F

Wheel Dia. (in.)	Shaft Dia. (in.)	Dimensions (in.) A	B	C	E	F	G	H	J	K	M	N	FLOOR-MOUNT VIBRATION ISOLATOR Item No.	FLOOR-MOUNT SPRING ISOLATOR Item No.
Direct-Drive														
11 1/8	—	11	9 1/2"	9 1/2"	2 5 3/32"	1 9 3/16"	1 1 5/64"	1 1 5/64"	1 9 1/64"	1 0 11/16"	1 8 49/64"	1 2 33/64"	4C955	5XR76
15	—	15 3/4"	10 5/16"	9 1/2"	2 5 3/32"	1 9 63/64"	1 5 51/64"	1 5 53/64"	2 7 31/64"	1 3 35/64"	1 8 49/64"	1 2 33/64"	4C876	5XR70
Belt-Drive														
11 1/8	3/4"	11 1/64"	8 1/2"	1 5 1/2"	2 2 1/4"	2 0 21/32"	1 1 5/32"	1 1 31/64"	2 0 3/32"	1 0 11/16"	1 5 1/8"	1 6 7/64"	4C955	5XR76
12 1/4	1	12 1/8"	9 29/32"	1 5 1/2"	2 2 1/4"	2 1 21/32"	1 3 1/64"	1 3 9/16"	2 3 1/64"	1 1 5 1/64"	1 5 1/8"	1 6 3/64"	4C955	5XR76
13 1/2	1	14 1/64"	10 5/64"	1 6 3/4"	2 4 3/4"	2 2 49/64"	1 4 2 1/64"	1 4 39/64"	2 5 35/64"	1 2 19/32"	1 6 5/8"	1 7 1/16"	4C876	5XR70
15	1 3/16"	15 3/4"	12 5/64"	1 8 1/2"	2 7 1/2"	2 4 9/16"	1 5 29/32"	1 6 3/16"	2 8 9/32"	1 3 35/64"	1 8 1/2"	2 0 1/64"	4C876	5XR70
16 1/2	1 3/16"	17 21/64"	13 1/4"	1 9 1/2"	30"	2 8 3/4"	1 7 31/64"	17 3/4"	31"	1 4 1/2"	2 0 3/8"	2 2 21/64"	4C876	5XR70
18 1/4	1 3/16"	19 5/32"	14 5/8"	22"	33 1/4"	32 3/4"	1 9 21/64"	1 9 37/64"	3 4 3/16"	1 5 39/64"	2 2 3/8"	2 3 3/8"	4C961	5XR70
20	1 3/16"	21"	16"	2 3 3/4"	3 6 1/8"	3 5 5/8"	2 1 1 1/64"	2 1 1 3/32"	3 7 2 3/64"	1 6 2 3/32"	2 4 1/2"	2 5 5/8"	4C877	5XR72
22 1/4	1 7/16"	23 23/64"	17 49/64"	24"	41 1/2"	34 5 7/64"	2 3 5 5/64"	2 3 49/64"	4 1 3 9/64"	1 8 5 3/32"	2 8 3/4"	2 8 1/4"	4C877	5XR72
24 1/2	1 7/16"	25 23/32"	19 17/32"	25"	45 3/4"	36 1 7/32"	2 5 5 9/64"	2 6 7/64"	4 5 45/64"	1 9 1 9/32"	2 1 1/2"	3 1 5 1/32"	4C988	5XR72

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	Blower RPM	Motor HP	Sones @ 0.750" SP @ 5 ft.	Motor RPM	Speed Control	Open Dripproof 1-Phase Motor 115V, 60 Hz Item No.
Direct-Drive, With EC Motor											
11 1/8	683 1033 1358	443 875 1238	709 1109	979	— — —	1050 1400 1750	½	—	1800	43Y140	488V85
15	1215 1950 2635	793 1703 2448	1434 2257	1097 2059	1611	800 1125 1450	¾	—	1800	43Y140	488V87

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	2.00"	3.00"	Blower RPM	Motor HP	Max. BHP†	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Hazardous Location 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Hazardous Location 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive															
11 1/8	893	836	771	696	518	—	—	2048	1/4	0.25	7DG05	—	7DG06	—	488V75
	989	938	882	819	674	494	—	2246	1/3	0.33	7DG07	—	7DG08	—	
	1151	1106	1061	1011	899	769	—	2581	1/2	0.5	7DG09	—	7DG10	—	
	1326	1288	1249	1209	1121	1018	778	2949	3/4	0.75	7DG11	—	—	—	
	1467	1432	1397	1361	1284	1199	1005	3245	1	1.00	7DG12	—	7DG13	—	
	1015	893	737	—	—	—	—	1400	1/4	0.15	7DF95	7DF96	7DG01	—	488V76
	1246	1158	1047	922	—	—	—	1670	1/4	0.25	7DF97	7DF98	7DG02	—	
	1383	1307	1215	1109	738	—	—	1833	1/3	0.33	7DF99	—	7DG03	7DF87	
	1608	1542	1472	1389	1198	788	—	2103	1/2	0.50	7DG00	—	7DG04	—	
	1861	1802	1744	1681	1528	1359	—	2408	3/4	0.75	7DF88	—	7DF89	—	
	2060	2005	1953	1900	1776	1629	1237	2650	1	1.00	7DF90	—	7DF91	—	
	2373	2323	2277	2232	2135	2024	1764	3033	1 1/2	1.50	7DF92	—	7DF93	—	
	2628	2582	2539	2498	2415	2322	2100	3346	2	2.00	—	—	7DF94	—	
12 1/4	1597	1495	1376	1226	—	—	—	1643	1/3	0.33	7HT17	—	7HT18	—	488V77
	1862	1783	1683	1578	1296	—	—	1889	1/2	0.50	7HT19	—	7HT20	—	
	2151	2081	2004	1917	1715	1448	—	2159	3/4	0.75	7HT21	—	7HT22	—	
	2379	2311	2253	2172	2013	1806	1024	2373	1	1.00	7HT23	—	7HT24	—	
	2741	2681	2626	2574	2434	2293	1928	2716	1 1/2	1.50	7HT25	—	7HT26	—	
	3030	2976	2921	2875	2761	2635	2335	2991	2	1.98	7HT27	—	—	—	
13 1/2	1671	1509	1309	—	—	—	—	1261	1/4	0.25	7F966	7F967	7F968	—	488V78
	1862	1720	1559	1351	—	—	—	1384	1/3	0.33	7F969	7F970	7F971	7F972	
	2176	2056	1926	1783	1296	—	—	1589	1/2	0.50	7F973	7F974	7F975	7F976	
	2522	2419	2311	2196	1929	1395	—	1819	3/4	0.75	7F977	—	7F979	7F980	
	2795	2703	2607	2507	2290	2011	—	2002	1	1.00	7F981	—	7F983	—	
	3224	3145	3062	2979	2801	2607	2015	2292	1 1/2	1.50	7F985	—	7F986	—	
	3562	3491	3418	3342	3186	3018	2618	2522	2	2.00	7A0U6	—	7F989	—	
	4105	4042	3980	3915	3783	3645	3347	2892	3	3.00	—	—	7A0U7	—	
15	2119	1926	1694	1268	—	—	—	1161	1/3	0.33	7HT32	7HT33	7HT34	7HT35	488V79
	2483	2322	2144	1933	—	—	—	1333	1/2	0.50	7HT36	7HT37	7HT38	7HT39	
	2885	2748	2602	2443	2044	—	—	1526	3/4	0.75	7HT40	7HT41	7HT42	7HT43	
	3201	3078	2950	2814	2506	2007	—	1680	1	1.00	7HT44	7HT45	7HT46	7HT47	
	3696	3591	3482	3368	3124	2847	—	1923	1 1/2	1.50	7HT48	—	7HT49	7HT50	
	4087	3993	3894	3794	3584	3352	2730	2116	2	2.00	7HT51	—	7HT52	7HT53	
	4706	4623	4540	4453	4277	4091	3670	2423	3	3.00	—	—	7HT54	—	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified ratings Seal applies to air performance ratings only. ‡ Motor is rated 208-230V. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

CONTINUED

CONTINUED

Utility Exhaust Blowers

Dayton

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	2.00"	3.00"	Blower RPM	Motor HP	Max. BHP†	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Hazardous Location 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Hazardous Location 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive (Cont.)															
16½	2808	2600	2354	1988	—	—	—	1125	½	0.50	**7F991**	**7F992**	**7F993**	**7F994**	
	3270	3093	2899	2677	1824	—	—	1288	¾	0.75	**7F999**	**7C029**	**7C030**	**7C031**	
	3633	3473	3312	3125	2631	—	—	1418	1	1.00	**7C032**	**7C033**	**7C034**	—	
	4203	4066	3925	3782	3443	2973	—	1624	1½	1.50	**7C042**	**7A0U8** ‡	**7C043**	—	**488V80**
	4645	4521	4393	4268	3985	3647	—	1785	2	2.00	**7C045**	—	**7C046**	**7C047**	
	4959	4844	4724	4604	4349	4061	3201	1900	3	2.42	—	—	**7C048**	—	
	5344	5237	5127	5014	4797	4538	3893	2041	3	3.00	—	—	**7C050**	—	
	6259	6168	6075	5981	5788	5604	5148	2378	5	4.70	—	—	**7A0U9**	—	
18¼	3176	2894	2540	1864	—	—	—	950	½	0.50	**7HT62**	**7HT63**	**7HT64**	—	
	3706	3479	3206	2880	—	—	—	1087	¾	0.75	**7HT66**	**7HT67**	**7HT68**	**7HT69**	
	4125	3916	3690	3437	2620	—	—	1197	1	1.00	**7HT70**	**7HT71**	**7HT72**	**7HT73**	
	4777	4595	4415	4208	3733	2904	—	1370	1½	1.50	**7HT74**	**7HT75**	**7HT76**	**7HT77**	**488V81**
	5292	5128	4962	4799	4401	3904	—	1508	2	2.00	**7HT78**	—	**7HT79**	**7HT80**	
	6097	5956	5811	5666	5357	5008	3976	1725	3	3.00	—	—	**7HT81**	**7HT82**	
	7280	7161	7041	6919	6675	6418	5822	2046	5	4.99	—	—	**7HT83**	—	
	3176	2894	2540	1864	—	—	—	950	½	0.5	—	—	—	**7HT65**	
20	4164	3863	3506	3005	—	—	—	935	¾	0.75	**7C052**	**7C054**	**7C056**	**7C057**	
	4629	4362	4057	3703	—	—	—	1027	1	1.00	**7C058**	**7C059**	**7C060**	**7C061**	
	5372	5138	4904	4627	3936	—	—	1176	1½	1.50	**7C087**	**7A0V0** ‡	**7C088**	—	
	5960	5749	5537	5309	4782	3996	—	1295	2	2.00	**7C090**	—	**7C091**	**7C092**	**488V82**
	6876	6695	6508	6324	5908	5435	3335	1482	3	3.00	—	—	**7C095**	**7A0V1**	
	8208	8057	7903	7745	7436	7079	6257	1756	5	5.00	—	—	**7A0V2**	**7A0V3**	
	9146	9010	8874	8733	8449	8173	7500	1950	7½	6.78	—	—	**7A0V4**	—	
22¼	4746	4365	3862	3005	—	—	—	816	¾	0.75	**7HT96**	**7HT97**	**7HT98**	**7HT99**	
	5285	4958	4563	4039	—	—	—	897	1	1.00	**7HU00**	**7HU01**	**7HU02**	**7HU03**	
	6147	5857	5557	5206	4115	—	—	1028	1½	1.50	**7HU04**	**7HU05**	**7HU06**	**7HU07**	**488V83**
	6819	6558	6296	6002	5253	3894	—	1131	2	2.00	**7HU08**	—	**7HU09**	**7HU10**	
	7866	7642	7415	7188	6653	5956	—	1294	3	3.00	—	—	**7HU11**	**7HU12**	
	9402	9224	9030	8841	8452	7998	6788	1535	5	5.00	—	—	**7HU13**	**7HU14**	
24½	6075	5610	5051	4330	—	—	—	751	1	1.00	**7C097**	**7C098**	**7C099**	**7C100**	
	7059	6674	6238	5738	3820	—	—	859	1½	1.50	**7C101**	**7A0V5** ‡	**7C102**	—	
	7824	7485	7120	6692	5672	—	—	944	2	2.00	**7C104**	—	**7C105**	**7C106**	
	9045	8768	8452	8128	7361	6420	—	1081	3	3.00	—	—	**7C109**	**7C110**	**488V84**
	10,813	10,580	10,339	10,072	9512	8870	7188	1281	5	5.00	—	—	**7C113**	**7C114**	
	12,461	12,252	12,048	11,834	11,369	10,868	9708	1468	7½	7.50	—	—	**7A0V6**	**7A0V7**	
	13,516	13,318	13,129	12,941	12,518	12,089	11,074	1588	10	9.42	—	—	**7A0V8**	—	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified ratings Seal applies to air performance ratings only. ‡ Motor is rated 208-230V. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Corrosion-Resistant Direct-Drive Utility Blowers

PLASTEC™

- 115/230V are 1-phase, capacitor run
- 230/460V are 3-phase
- Max. inlet air temp.: 140°F
- Max. ambient: 102°
- Totally enclosed fan-cooled motors
- Ball bearings
- Rotation: CCW

Fully-assembled. Seamless housing prevents leakage of corrosive air fumes. Molded impeller hub and hub cap protect motor shaft, extending product life. Color coding simplifies blower identification. Motors are UL Listed and CSA Certified. Polypropylene models are UV treated and resist most chemicals; polypropylene wheel. Stainless steel models have electropolished 316 stainless steel housings and wheels.

Use to exhaust corrosive air fumes in textile, petrochemical, and water/wastewater treatment; metallurgical, pharmaceutical, and food processing; commercial washing services; schools, hospitals, research centers, and laboratories; and marine environments.



General Purpose, Polypropylene Housing



Weather Hood

Inlet Dia. (in.)	Outlet Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.20"	0.25"	0.50"	1.00"	3.00"	Blower RPM	Motor HP	GENERAL PURPOSE MOTOR 115/230V Item No.	230/460V Item No.	HAZARDOUS* LOCATION MOTOR 115/230V Item No.	230/460V Item No.	STAINLESS STEEL MOTOR 115/230V Item No.	230/460V Item No.
Polypropylene Housing														
4.92	4.47	100	—	—	—	—	1150	¼	**3MPV6**	**3MPV7**	—	—	—	—
		#	250	150	—	—	1725	⅓	**3MPV2**	**3MPV3**	**3MPV4**	**3MPV5**	—	—
		#	#	550	500	—	3450	½	**3MPU7**	**3MPU8**	**3MPU9**	**3MPV1**	—	—
6.29	6.63	#	500	300	—	—	1150	¼	**3MPW3**	**3MPW4**	—	—	—	—
		#	#	800	600	—	1725	⅓	**3MPV8**	**3MPV9**	**3MPW1**	**3MPW2**	—	—
7.87	8.62	#	1000	900	—	—	1150	⅓	**3MPW9**	**3MPX1**	—	—	—	—
		#	#	#	1400	—	1725	¾	**3MPW5**	—	**3MPW7**	**3MPW8**	—	—
				#	1400		1725	¾	—	**3MPW6**	—	—	—	—
9.84	10.75	#	2100	1800	1350	—	1150	¾	**3MPX6**	**3MPX7**	**3MPX8**	**3MPX9**	—	—
		#	#	#	2800	1500	1725	2	**3MPX2**	**3MPX3**	**3MPX4**	**3MPX5**	—	—
12.75	12.75	#	3300	3100	2500	—	850	2	—	**3MPY3**	—	—	—	—
		#	#	#	4200	—	1150	5	—	**3MPY2**	—	—	—	—
		#	#	#	#	#	1725	10	—	**3MPY1**	—	—	—	—
Stainless Steel Housing														
6.30	6.30	#	#	700	500	—	1725	⅓	**3MPY8**	**3MPZ9**	**3MPY9**	—	**3MPY7**	—
		#	750	700	500	—	1725	⅓	—	—	—	**3MRA1**	—	—
		#	#	#	#	1300	3450	1½	**3MPY5**	**3MPZ5**	**3MPY6**	**3MPZ6**	**3MPY4**	**3MPZ3**
12	12.00	#	1200	1100	1000	—	1725	1	**3MPZ2**	**3MRA8**	—	**3MRA9**	—	**3MRA6**
		#	2750	2700	2550	2200	3450	3	—	**3MRA4**	—	**3MRA5**	—	**3MRA2**

Item	Construc. Material	Application	For Use With	Item No.
Accessories				
Weather Hood	Purple Polypropylene	Protects Motor Against Weather	Mfr. No. PLA15SS2P, PLA15XS2P, PLA15XT2P, PLA20ST4P, PLA20XS4P, PLA25SS6P, PLA25ST6P	**3MRC1**
Weather Hood	Gray Polypropylene	Protects Motor Against Weather	3MPX2 to 3MPX9 and 3MPY1 to 3MPY3	**3MRC2**

*# WARNING: Motor overload will result if blower is operated at static pressures below performance listed. * Hazardous location motors: Class I Group D, Class II Groups F and G Div. 1 and 2.*



Convex



Concave

Double Inlet Direct-Drive Blower Wheels

- Forward curve
- Rotation facing hub
- Hubs include set screws

Wheels produce high air volume with low vibration for diverse air-moving applications. Individually cartoned for greater protection.

Concave or convex back plates allow motor location on either side of the blower housing. For ventilation, air conditioning, heating, and dehumidifying in industrial and commercial applications.

Note: Single inlet concave models available on Grainger.com®.

Wheel Dia. (in.)	Bore Dia. (in.)	Max. RPM	CONVEX CW Rotation Wheel Width (in.)	CONVEX CW Rotation Item No.	CONVEX CCW Rotation Wheel Width (in.)	CONVEX CCW Rotation Item No.	CONCAVE CW Rotation Wheel Width (in.)	CONCAVE CW Rotation Item No.	CONCAVE CCW Rotation Wheel Width (in.)	CONCAVE CCW Rotation Item No.
9 7/16	1/2	1750	6	2UTU4	—	—	9 1/2	2UTT9	9 1/2	2UTU8
9 7/16	1/2	1750	7	2UTT8	—	—	—	—	—	—
9 7/16	1/2	1750	8	2UTU6	—	—	—	—	—	—
11	1/2	1750	4 1/2	2UTU9	6	2UTV2	10 5/8	2UTW1	10 5/8	2UTW2
11	1/2	1750	6	2UTV1	8	2UTV6	—	—	—	—
11	5/8	1750	6	2UTV3	—	—	—	—	—	—
11	1/2	1750	7	2UTV4	—	—	—	—	—	—
11	1/2	1750	7 3/4	2UTU1	—	—	—	—	—	—
11	1/2	1750	9 1/2	2UTV9	—	—	—	—	—	—
11	1/2	1750	10 5/8	2UTU2	—	—	—	—	—	—
12 3/16	1/2	1550	6	2UTW3	8	2UTW7	8	2UTW6	—	—
12 3/16	1/2	1550	8	2UTW5	—	—	10 5/8	2UTX1	—	—



Double Inlet, CW Rotation



Single Inlet, CW Rotation



Single Inlet, CCW Rotation

REVCOR
REVOLUTIONARY AIR FLOW™

Direct-Drive Blower Wheels

- Single inlet: rotation facing back disc (closed end) of wheel
- Double inlet: rotation facing hub
- Hubs include set screws

Wheels produce high air volume with low vibration for diverse air-moving applications. Individually cartoned for greater protection. Convex back plates allow motor location on either side of the blower housing. For ventilation, air conditioning, heating, and dehumidifying in industrial and commercial applications.

Note: Additional models available on Grainger.com®.

Wheel Dia. (in.)	Wheel Width (in.)	Bore Dia. (in.)	Max. RPM	Wheel Material	CW ROTATION Item No.	CCW ROTATION Item No.
Convex, Double Inlet, Forward Curve						
8 1/2	7	1/2	1750	Galvanized Steel	4GMK1	—
9 1/2	5 3/4	1/2	1750		4GMK2	—
9 1/2	7	1/2	1550		4GMK3	—
9 1/2	8	1/2	1450		4GMK4	—
9 7/8	7	1/2	1550		—	4GMK6
9 7/8	9 1/4	1/2	1200		—	4GMK7
9 7/8	10 1/2	1/2	1150		—	4GMK5
10 3/4	10 1/2	1/2	1150		4GMK8	—
Double Inlet, Forward Curve						
5 1/4	6	1/2	2800	Galvanized Steel	4GMG1	—
5 1/4	6 3/4	1/2	2250		—	4GMG2
5 1/4	8	1/2	3200		—	10W941
5 1/2	5	1/2	3200		4GMG3	—
5 1/2	7	1/2	1550	Plastic	10W891 †	—
5 3/4	6	1/2	2700	Galvanized Steel	—	10W943
5 3/4	6 1/2	1/2	2400	Aluminum	—	4GMG4
5 3/4	6 7/8	1/2	3000	Galvanized Steel	4GMG5	—
5 3/4	7 1/4	3/8	2200	Aluminum	—	10W944
5 3/4	8	1/2	2800	Galvanized Steel	—	4GMG6
6	7 13/16	1/2	1550	Plastic	10W892 †	—
6	9	1/2	1550		10W893 †	—
6 1/8	7 1/4	1/2	2000	Galvanized Steel	4GMG8	—
6 5/16	4	1/2	3300		4GMH2	—
6 5/16	5	1/2	2700		4GMH3	—
6 5/16	5 7/16	1/2	3400		4GMG9	—
6 5/16	6 3/8	1 1/4	2200	Aluminum	4GMH5	—
6 5/16	6 7/8	1/2	3000	Galvanized Steel	4GMH1	—
6 5/16	7 1/2	1/2	1925	Aluminum	—	4GMH6
6 5/16	7 7/8	1/2	1700		4GMH7	—
6 5/16	8 1/8	1/2	1700	Galvanized Steel	—	4GMH8
6 5/16	8 1/4	1/2	1675		4GMJ1	—
6 3/4	7 1/4	1/2	2000		4GMJ2	—
6 3/4	8 1/4	1/2	1700		4GMJ3	—
7 1/8	5 1/2	1/2	2700		—	4GMJ4
7 1/8	6 1/4	1/2	1950		4GMJ6 *	—
7 7/16	7	1/2	1800		—	4GMJ7
7 5/8	5 3/8	3/8	2050		—	4GMJ8
7 5/8	7	1/2	1800		4GMJ9	—
11	8	1/2	1550	Plastic	10W898	—

** Off-center disc. † CW/CCW rotation. Blower wheel is reversible by changing hub end.*

Wheel Dia. (in.)	Wheel Width (in.)	Bore Dia. (in.)	Max. RPM	Wheel Material	CW ROTATION Item No.	CCW ROTATION Item No.
Single Inlet, Forward Curve						
3	1 7/8	5/16	5000	Galvanized Steel	4DLR5	4DLR6
3 13/16	1 7/8	5/16	5000		4DLR9	4DLT1
3 13/16	2 1/16	5/16	5000		4DLT2	4DLT3
3 13/16	2 1/4	5/16	5375		4DLU2	—
3 13/16	2 1/2	5/16	5000		4DLT5	4DLT6
4	2 1/2	1/4	3600		—	4DLU7
4 3/4	2 1/2	5/16	3600		4DLW3	4DLW2
4 3/4	2 1/2	1/2	3600		4DLW1	—
4 3/4	2 15/16	5/16	3600		—	4DLW4
4 13/16	1 1/8	5/16	7400		4DLX1	4DLX2
5 1/16	2 1/2	1/2	4000		10W905	—
5 1/16	3	5/16	3300		10W907	—
5 1/4	2 1/2	5/16	3600		—	4DLX8
5 1/4	2 1/2	1/2	3600		—	4DLX6
5 1/4	2 15/16	5/16	3600		4DLX9	4DLY1
5 1/4	2 15/16	1/2	3600		—	4DLY3
5 1/4	3 7/16	5/16	3600		4DLY4	4DLY5
5 1/4	3 7/16	1/2	3600		4DLY6	4DLY7
5 3/4	1 1/2	1/2	5700		—	4DLY9
5 3/4	2 1/2	5/16	3450		4DLZ4	4DLZ3
5 3/4	2 1/2	1/2	3900		—	4DLZ6
5 3/4	2 15/16	1/2	3000		4DLZ9	4DMA1
5 3/4	3 13/16	1/2	3000		4DMA8	—
5 3/4	4	1/2	2800		4DMC1	4DMC2
6 5/16	2	1/2	4400		4DMC5	4DMC6
6 5/16	2 1/2	1/2	3625		4DMC7	4DMC8
6 5/16	2 15/16	5/16	3400		4GLX2	4GLX1
6 5/16	3	1/2	3400		4GLX3	4GLX4
6 5/16	3 7/16	1/2	3000		4GLX5	4GLX6
6 5/16	4	1/2	2800		4GLX9	4GLY1
7 1/8	1 7/8	5/16	3350		4GLY6	—
7 1/8	2	5/16	2900		—	10W917
7 1/8	2 1/2	1/2	2400		10W918	—
7 1/8	4	3/8	1500		—	10W940
7 1/8	4	1/2	2000		4GLY8	4GLY7
7 7/16	2 3/4	1/2	2825		4GLZ4	—
7 7/16	3 1/4	1/2	2400		4GLZ6	4GLZ7
7 5/8	4	1/2	2000		4GMA1	—
8	2 1/4	1/2	2500		—	10W923
8	2 1/2	1/2	2875		—	4GMA6
9 7/8	2	5/8	3000		—	4GME1
10 3/4	1 3/8	5/8	3150		—	4GME6
12 5/8	5	1/2	1100		4GMF7	4GMF8
12 5/8	6	3/4	925		—	4GMF9

GRAINGER CATALOGS
Are Digital Too!

- Choose From Our Library of Catalogs
- Browse, Download or Share Pages
- Add Items to Your Cart and Checkout When Ready



Portable Blowers/Carpet Dryers

Dayton

- Space-saving stackable design
- 3-conductor power cords

Dry carpets, upholstery, and hard floors. For portable dehumidifiers, see page 3062.

Nos. 5UMP6, 30EK65, and 30EK66— UL and C-UL Listed.
- Thermoplastic blower wheel
- 3 operating positions
- Built-in outlets to connect multiple units (Nos. 5UMP6 & 30EK66)

No. 5UMP5—"Caution" banner on telescoping handle. UL and C-UL Listed.
- Thermoplastic blower wheel
- 2 operating positions

No. 4XLE2—UL and C-UL Listed.
- Steel blower wheel



No. 5UMP6



No. 5UMP5


No. 4XLE2

Description	CFM High	CFM Med.	CFM Low	Amps	Motor HP	Power Cord L	Housing Height	Housing Length	Housing Width	Item No.
Blowers/Carpet Dryers, 120V, 60 Hz										
3-Speed Carpet Dryer, High-Visibility Yellow	200	120	100	0.4	—	6 ft.	10¾"	9¾"	7½"	**30EK65**
	500	300	250	1.5	—	10 ft.	13¼"	12⅜"	9"	**5UMP6**
	1000	650	550	3.5	—	10 ft.	17⅛"	16¾"	12½"	**30EK66**
	1800	1300	1000	5.0	½	30 ft.	20"	21"	16"	**5UMP5**
3-Speed Carpet Dryer, Blue	1648	1260	869	10.0/8.3/5.8	1	25 ft.	19⁷⁄₁₆"	18"	17"	**4XLE2**

Industrial/Jobsite Blowers and Carpet Dryers

DRIEAZ

- Stackable compact design
- Hospital-grade cord with lit plug, except No. 425X94

Rugged, compact, and efficient units are ideal for ventilation and for drying floors, structures, and walls. Accessories are available on Grainger.com®.

No. 38MC15—Lightweight air mover dries floors, stairways, and walls. Variable speed control and digital amp readout.
- Daisy chain up to 10 units on 1 circuit

No. 29AH30—Lightweight air mover dries carpets, crawlspaces, hallways, and walls. 5-position versatility and an energy-saving 1.9A draw.
- Built-in GFCI outlet
- Can daisy chain up to 6 units on 1 circuit

No. 5UNZ5—Dry carpets, use to ventilate, or speed structural drying. UL and C-UL Listed.
- Built-in GFCI outlet
- Can daisy chain units

No. 39C367—Quickly dries up to 80 sq. ft. of carpet or hard floors. Compact and lightweight model is ideal for bathrooms, cabinets, or closets. ETL tested to UL/CSA standards.
- 360° airflow

No. 5UNZ4—Use to ventilate confined spaces, create negative air pressure, and remove odors or dust. UL and C-UL Listed.
- High static pressure
- Duct up to 125 ft.

No. 425X94—High-velocity, variable air flow for ventilating and drying ceilings, floors, and walls. Focus airflow with integrated pivot-and-lock stand. ETL tested to UL/CSA standards.
- Up to 2.7A draw
- Can daisy chain up to 4 units on 1 circuit

No. 5UNZ2—Can direct air 12 ft. in all directions to dry up to 500 sq. ft. of carpeting or hard floors in just minutes. ETL tested to UL/CSA standards.
- 360° airflow at 40 mph velocity
- Locking casters



No. 29AH30


No. 5UNZ5


No. 39C367


No. 5UNZ4


No. 425X94


No. 5UNZ2

Description	CFM High	CFM Low	Amps	Motor HP	Power Cord L	Housing Height	Housing Length	Housing Width	Mfr. Model	Item No.
Blowers, 115V, 60 Hz										
Velo Pro Airmover, Floor/Wall/Stair Dryer, 1-Speed	885	500	1.2	¼	15 ft.	9"	24"	18"	F505	**38MC15**
Velo Carpet/Wall Dryer, 1-Speed	885	—	1.9	¼	15 ft.	9"	24"	18"	F504	**29AH30**
Sahara ProX3 Carpet Dryer, 3-Speed	2700	1900	4	⅓	25 ft.	18⅞"	18¼"	17"	F351	**5UNZ5**
Carpet Dryers, 115V, 60 Hz										
Dri-Pod Downdraft 360° Floor Dryer, 1-Speed	750	—	1.1	1/6	10 ft.	9"	15¼"	15¼"	F451	**39C367**
Vortex Ventilator, 1-Speed	2041	—	7.4	1	20 ft.	19¼"	15¾"	18¾"	F174-BLU	**5UNZ4**
Stealth AV3000 High-Velocity Axial Fan, Variable Speed	2600	1600	2.7	1 3⁄32	16 ft.	24 7⁄64"	10 13⁄16"	24 5⁄16"	F568	**425X94**
AirPath Downdraft 360° Floor Dryer, 2-Speed	5500	4750	7.5	1	25 ft.	14¾"	26"	25½"	F377	**5UNZ2**

Item	For Use With	Mfr. Model	Item No.
Filters			
HEPA Filter	Mfr. No. F504	F518	**34CF05**
Replacement HEPA Filter	Mfr. No. F504/F505	F519	**38ZL91**
Replacement Pre-Filter	Mfr. No. F504/F505	F520	**38ZL92**

AirKing Ventilation Products®

Pivoting Utility Blowers


No. 1XGG2


No. 1XGG3


No. 2EKZ9


No. 2ELA1

- 120V, 60 Hz
- 3 speeds
- OSHA-compliant guards

High-velocity, focused air flow and innovative 225° or 270° pivoting fan heads ventilate and cool work areas while keeping dust and debris in check. 2 grounded 120V outlets accommodate power tools or other devices up to 10A total. 3-conductor 10-ft. cords: Nos. 1XGG3 and 2EKZ9 Type S with 5-15P GFCI plug; No. 1XGG2 Type S with 5-15P plug; No. 2ELA1 SJT type with 5-15P plug.

No. 2EKZ9 is safety yellow. See instructions for applicable limitations of use. ETL and C-ETL Listed.

Blower Wheel Dia.	CFM High	CFM Med.	CFM Low	Amps	Motor HP	Housing Dim. W	Housing Dim. H	Housing Dim. L	Outlet Dim. W	Outlet Dim. H	Mfr. Model	Item No.
6"	310	260	190	0.65/0.55/0.50	1⁄16	9¼"	11¼"	11½"	6½"	3"	9550	**1XGG2**
7"	350	300	250	0.95/0.80/0.70	1⁄13	11"	14½"	13"	8"	4"	9555	**1XGG3**
7"	350	300	250	0.95/0.80/0.70	1⁄13	11"	14½"	13"	8"	4"	9566	**2EKZ9**
7¼"	425	370	330	1.10/0.95/0.80	1⁄11	12"	15¼"	15"	11"	3"	9960	**2ELA1**

Window and Wall Air Conditioner Selection Guide

Determine Cooling Capacity (BtuH) needs using table at right. The table does not include people or equipment loads. Add 600 BtuH per person. For heavy shade, reduce by 10%. For sunny spaces, increase by 10%. For use in a kitchen, add 4000 BtuH.

CEER (combined energy efficiency ratio): The higher the number, the more efficient the unit.

STANDARD 8-FT. CEILING	
Average Coverage Area	Cooling Capacity Needed
100 to 150 sq. ft.	4000 to 5999 BtuH
150 to 250 sq. ft	6000 to 6999 BtuH
250 to 300 sq. ft.	7000 to 7999 BtuH
300 to 350 sq. ft.	8000 to 8999 BtuH
350 to 400 sq. ft.	9000 to 9999 BtuH
400 to 450 sq. ft.	10,000 to 11,999 BtuH
450 to 550 sq. ft.	12,000 to 13,999 BtuH
550 to 700 sq. ft.	14,000 to 17,999 BtuH
700 to 1000 sq. ft.	18,000 to 20,999 BtuH
1000 to 1200 sq. ft.	21,000 to 22,999 BtuH
1200 to 1400 sq. ft.	23,000 to 23,999 BtuH
1400 to 1500 sq. ft.	24,000 to 29,999 BtuH
1500 to 2000 sq. ft.	30,000 to 33,999 BtuH
2000 to 2500 sq. ft.	34,000 to 35,000 BtuH

PLUG CONFIGURATION



5-15P | 6-15P | 6-20P | 6-30P

No. 494L51



No. 494L46



FRIEDRICH

Commercial-Grade Window Air Conditioners

- Programmable
- Quiet operation
- 24-hr. timer
- Auto restart
- Left/right reversible power cord
- Control panel lockout (ON-OFF)
- Anti-intrusion protection

Made for commercial-grade applications with components that withstand more demanding environments. Commonly used to cool offices, retail stores, multi-family buildings, barracks, and dorms. Install in a window or through the wall. Units have remote capability and can be managed via Wi-Fi to allow centralized control of settings for one or more units. They're also compatible with Amazon Alexa and Google Home.

Window Mounting Kits—Window kits are included with Cooling-Only models, but are an accessory item for Cooling/Heating models. Window kits are required for window installation.

Carbon Filters—Remove odors and VOCs. Achieve up to a MERV 6 rating when used with standard filter.

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Chassis Type	Mfr. Model	Item No.
Cooling Only											
6,000 BtuH	150 to 250 sq ft	12.1	115V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ06A10	**494L51**
8,000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ08A10	**494L52**
8,000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS08A10	**494L54**
9,500 BtuH	350 to 400 sq ft	10.9	115V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ10A10	**494L53**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS10A10	**494L55**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS12A10	**494L56**
12,000 BtuH	450 to 550 sq ft	12.0	230V AC	LCDI, 6-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS12A30	**494L58**
13,600 BtuH	450 to 550 sq ft	10.9	115V AC	LCDI, 5-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS14A10	**494L57**
13,600 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	3	17 15/16 in	25 15/16 in	34 ½ in	Slide Out	KCM14A10	**54XN29**
15,700 BtuH	550 to 700 sq ft	10.7	230V AC	LCDI, 6-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KCS16A30	**494L59**
20,000 BtuH	700 to 1000 sq ft	10.3	230V AC	LCDI, 6-15P	4	17 15/16 in	25 15/16 in	29 in	Slide Out	KCM18A30	**494L49**
21,500 BtuH	1000 to 1200 sq ft	10.3	230V AC	LCDI, 6-15P	4	17 15/16 in	25 15/16 in	29 in	Slide Out	KCM21A30	**494L50**
24,000 BtuH	1400 to 1500 sq ft	10.3	230V AC	LCDI, 6-20P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KCL24A30	**494L46**
28,000 BtuH	1400 to 1500 sq ft	9.9	230V AC	LCDI, 6-20P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KCL28A30	**494L47**
35,000 BtuH	2000 to 2500 sq ft	9.0	230V AC	LCDI, 6-30P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KCL36A30	**494L48**
Cooling/Heating, Electric Heat											
7,700 BtuH	250 to 300 sq ft	11.0	115V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KEQ08A11	**494L63**
12,000 BtuH	450 to 550 sq ft	10.9	230V AC	LCDI, 6-20P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KES12A33	**494L64**
15,700 BtuH	550 to 700 sq ft	10.7	230V AC	LCDI, 6-20P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KES16A33	**494L65**
20,000 BtuH	700 to 1000 sq ft	10.3	230V AC	LCDI, 6-30P	4	17 15/16 in	25 15/16 in	29 in	Slide Out	KEM18A34	**494L62**
24,000 BtuH	1400 to 1500 sq ft	10.3	230V AC	LCDI, 6-30P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KEL24A35	**494L60**
35,000 BtuH	2000 to 2500 sq ft	9.0	230V AC	LCDI, 6-30P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KEL36A35	**494L61**
Cooling/Heating, Heat Pump											
10,000 BtuH	400 to 450 sq ft	10.8	115V AC	LCDI, 5-15P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KHS10A10	**494L68**
12,000 BtuH	450 to 550 sq ft	10.8	230V AC	LCDI, 6-20P	4	15 15/16 in	25 15/16 in	29 in	Slide Out	KHS12A33	**494L69**
17,500 BtuH	550 to 700 sq ft	10.8	230V AC	LCDI, 6-30P	4	17 15/16 in	25 15/16 in	29 in	Slide Out	KHM18A34	**494L67**
24,000 BtuH	1400 to 1500 sq ft	10.2	230V AC	LCDI, 6-30P	4	20 3/16 in	28 in	35 ½ in	Slide Out	KHL24A35	**494L66**

For Use With	Mfr. Model	Item No.
Window Mount Kits for Cooling/Heating Models		
Kühl for "Q" Chassis	KWIKQ	**3JA19**
Kühl for Small Chassis	KWIKS	**48LU80**
Kühl for Medium Chassis	KWIKB	**48LU79**
Kühl for Large Chassis	KWIKL	**48LU78**
Carbon Filters (3 Pack)		
All KCL, KEL and KHL Kühl Commercial Grade Models	KWCFL	**6JHJ0**
All KCS, KES and KHS Kühl Commercial Grade Models	KWCFS	**6JHH8**
All KCM, KEM and KHM Kühl Commercial Grade Models	KWCFM	**6JHH9**
All KCQ and KEQ Kühl Commercial Grade Models	KWCFQ	**40HY56**

No. 4MH73



No. 426R70



A/C·SAFE | Frost King

Window Air Conditioner Brackets

Relieve stress that air conditioners place on windows. They install from inside and include a built-in level and hardware. For additional window air conditioner accessories, go to Grainger.com®.

Weight Cap.	H	W	D	Mfr. Model	Item No.
A/C Safe					
Up to 80 Lbs	1 ¾ in	4 ¾ in	14 ½ in	AC-080	**4MH72**
Up to 160 Lbs	1 ¾ in	4 ¾ in	—	AC-160	**4MH73**
Frost King					
Up to 80 Lbs	4 ⅞ in	14 ½ in	1 ¾ in	ACB80H	**426R70**
Up to 160 Lbs	5 in	19 ½ in	1 ¾ in	ACB160H	**426R71**

Goodman Air Conditioning & Heating

Looking For Condensing Units?

Find A/C condensing units, heat pump condensing units, and central equipment accessories on page 3091 and also on Grainger.com®.

No. 38GM12



FRIGIDAIRE FRIEDRICH

Residential-Grade Window Air Conditioners

- Programmable
- 24-hr. timer

Units are made of residential-grade materials and have a decorative front grille that blends in with home interiors. Typically used to cool rooms in houses and apartments. All have remote capablity.

Friedrich—CCW and CEW models can be installed in a window or through the wall. All units can be managed via Wi-Fi to allow centralized control of settings. Compatible with Amazon Alexa and Google Home. Units have Seacoast Protection to guard against corrosion.

- Quiet operation
- Auto restart
- Left/right reversible power cord
- Washable filter

Frigidaire—FGR and FHW models are Wi-Fi capable.



No. 470D50



No. 55HF01



No. 45RK41

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Chassis Type	Brand	Mfr. Model	Item No.
Cooling Only												
5000 BtuH	100 to 150 sq ft	12.0	115V AC	LCDI, 5-15P	3	13 3/8 in	18 5/8 in	13 5/16 in	Fixed	Friedrich	CCF05A10	**494L23**
6000 BtuH	150 to 250 sq ft	12.1	115V AC	LCDI, 5-15P	3	13 7/16 in	21 1/4 in	19 in	Fixed	Frigidaire Gallery	FGRQ0633U1	**470D41**
6000 BtuH	150 to 250 sq ft	12.1	115V AC	LCDI, 5-15P	Variable	13 7/32 in	18 1/2 in	15 1/4 in	Fixed	Frigidaire	FHWW063WB1	**55KJ54**
6000 BtuH	150 to 250 sq ft	12.1	115V AC	LCDI, 5-15P	3	13 3/8 in	18 5/8 in	15 5/8 in	Fixed	Friedrich	CCF06A10	**55HE98**
6000 BtuH	150 to 250 sq ft	12.1	115V AC	LCDI, 5-15P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CCW06B10	**55HF03**
8000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	3	13 7/16 in	18 1/2 in	16 in	Fixed	Frigidaire Gallery	FGRC084WA1	**470D69**
8000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	Variable	13 7/32 in	18 1/2 in	17 31/64 in	Fixed	Frigidaire	FHWW083WB1	**55KJ55**
8000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	3	13 3/8 in	18 5/8 in	18 5/8 in	Fixed	Friedrich	CCF08A10	**55HE99**
8000 BtuH	300 to 350 sq ft	12.0	115V AC	LCDI, 5-15P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CCW08B10	**55HF04**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	3	14 1/2 in	19 in	24 5/8 in	Fixed	Frigidaire Gallery	FGRC1044T1	**470D44**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	3	15 3/4 in	21 11/32 in	21 1/4 in	Fixed	Frigidaire	FFRE103ZA1	**470D50**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	Variable	14 1/2 in	19 in	21 1/2 in	Fixed	Frigidaire	FHWW103WB1	**55KJ56**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	3	13 3/8 in	18 5/8 in	21 3/4 in	Fixed	Friedrich	CCF10A10	**55HF01**
10,000 BtuH	400 to 450 sq ft	12.0	115V AC	LCDI, 5-15P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CCW10B10	**55HF05**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	3	14 1/2 in	19 in	24 5/8 in	Fixed	Frigidaire Gallery	FGRC1244T1	**470D45**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	3	15 3/4 in	21 11/32 in	21 1/4 in	Fixed	Frigidaire	FFRE123ZA1	**470D51**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	Variable	14 1/2 in	19 in	21 1/2 in	Fixed	Frigidaire	FHWW123WB1	**55KJ57**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	3	13 3/8 in	18 5/8 in	21 3/4 in	Fixed	Friedrich	CCF12A10	**55HF02**
12,000 BtuH	450 to 550 sq ft	12.0	115V AC	LCDI, 5-15P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CCW12B10	**55HF06**
15,000 BtuH	550 to 700 sq ft	11.8	115V AC	LCDI, 5-15P	3	17 25/32 in	23 3/8 in	27 13/32 in	Slide Out	Frigidaire	FFRE153ZA1	**470D52**
15,000 BtuH	550 to 700 sq ft	11.8	115V AC	LCDI, 5-15P	Variable	17 27/32 in	23 3/8 in	25 3/8 in	Fixed	Frigidaire	FHWW153WB1	**55KJ58**
15,000 BtuH	550 to 700 sq ft	11.8	115V AC	LCDI, 5-15P	3	18 in	23 7/8 in	25 3/8 in	Slide Out	Friedrich	CCW15B10	**55HF07**
17,600/18,000 BtuH	700 to 1000 sq ft	11.8	208/230V AC	LCDI, 6-15P	3	17 25/32 in	23 3/8 in	27 13/32 in	Slide Out	Frigidaire	FFRE1833U2	**470D53**
18000 BtuH	700 to 1000 sq ft	11.8	208/230V AC	LCDI, 5-15P	3	18 in	23 7/8 in	25 3/8 in	Slide Out	Friedrich	CCW18B30	**55HF08**
21,600/22,000 BtuH	1000 to 1200 sq ft	10.3	208/230V AC	LCDI, 6-15P	3	18 5/8 in	26 11/32 in	26 5/16 in	Slide Out	Frigidaire	FFRE2233U2	**470D54**
24000 BtuH	1400 to 1500 sq ft	10.3	208/230V AC	LCDI, 6-20P	3	18 5/8 in	23 7/8 in	27	Slide Out	Friedrich	CCW24B30	**55HF09**
24,600/25,000 BtuH	1400 to 1500 sq ft	10.3	208/230V AC	LCDI, 6-20P	3	18 5/8 in	26 11/32 in	26 5/16 in	Slide Out	Frigidaire	FFRE2533U2	**470D55**
28,000/28,300 BtuH	1400 to 1500 sq ft	9.0	208/230V AC	LCDI, 6-30P	3	18 5/8 in	26 11/32 in	26 5/16 in	Slide Out	Frigidaire	FFRA2822U2	**470D68**
Slider/Casement												
8000 BtuH	300 to 350 sq ft	11.2	115V AC	LCDI, 5-15P	3	20 1/4 in	14 1/2 in	25 1/2 in	Fixed	Frigidaire	FFRS0822S1	**45RK41**
10,000 BtuH	400 to 450 sq ft	10.4	115V AC	LCDI, 5-15P	3	20 1/4 in	14 3/16 in	23 1/2 in	Fixed	Frigidaire	FFRS1022R1	**22XR23**
Cooling/Heating, Electric Heat												
8000 BtuH	300 to 350 sq ft	10.9	115V AC	LCDI, 6-20P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CEW08B11A	**55HF10**
12,000 BtuH	450 to 550 sq ft	10.9	208/230V AC	LCDI, 6-20P	3	14 5/8 in	19 3/4 in	23 3/4 in	Slide Out	Friedrich	CEW12B33	**55HF11**
18000 BtuH	700 to 1000 sq ft	10.7	208/230V AC	LCDI, 6-20P	3	18 in	23 7/8 in	25 3/8 in	Slide Out	Friedrich	CEW18B33	**55HF12**
18,200/18,500 BtuH	700 to 1000 sq ft	10.7	208/230V AC	LCDI, 6-30P	3	17 7/8 in	23 3/8 in	25 3/8 in	Slide Out	Frigidaire	FFRH1822R2	**22XR20**
24000 BtuH	1400 to 1500 sq ft	9.4	208/230V AC	LCDI, 6-20P	3	18 5/8 in	27 in	26 5/8 in	Slide Out	Friedrich	CEW24B33	**55HF13**
24,700/25,000 BtuH	1400 to 1500 sq ft	9.4	208/230V AC	LCDI, 6-30P	3	18 5/8	26 1/2 in	26 1/2 in	Slide Out	Frigidaire	FFRH2522R2	**22XR21**
Cooling/Heating, Heat Pump												
8000 BtuH	300 to 350 sq ft	9.8	115V AC	LCDI, 5-15P	3	15 3/8 in	22 5/8 in	23 5/16 in	Slide Out	Frigidaire	FFRH0822R1	**22XR18**
11,000 BtuH	400 to 450 sq ft	9.8	115V AC	LCDI, 5-15P	3	15 3/8 in	22 5/8 in	23 5/16 in	Fixed	Frigidaire	FFRH1122U1	**470D46**

Air Conditioner Covers

Fit over the front grille or outside cabinet of an idle AC unit to block drafts, dirt, and allergens from entering a building.



No. 426R65



No. 5E169

Description	For Use With	Includes	Mfr. Model	Item No.
Window Air Conditioner Covers, Frost King				
Outdoor	Small Window Air Conditioners	(1) 18 in x 27 in x 16 in Polyurethane Reinforced Vinyl Air Conditioner Cover	AC2H	**426R64**
Outdoor	Large Window Air Conditioners	(1) 20 in x 28 in x 30 in Polyurethane Reinforced Vinyl Air Conditioner Cover	AC5H	**426R65**
Indoor	Small Window Air Conditioners	(1) 17 in x 25 in Quilted Fabric Air Conditioner Cover	AC9H	**426R66**
Indoor	Large Window Air Conditioners	(1) 20 in x 28 in Quilted Fabric Air Conditioner Cover	AC11H	**426R67**
Through-the-Wall Air Conditioner Cover, Chill Stop'R				
Indoor	Air Conditioners 19 in H x 27-34 in W x 6 in D	—	1212-06	**5E169**

Hazardous Location Through-the-Wall Air Conditioners

FRIEDRICH

- Hot gas bypass for cooling operation at low ambient temps., down to 45°F (7°C) without freezing

Sealed motor and solid-state relays prevent sparking while cooling potentially hazardous environments. Can be used where flammable gases, vapors, and liquids are handled or used within enclosed containers or systems, but are not normally present in concentrations high enough to be ignitable. Commonly used to cool laboratories, control rooms, and storage areas. These commercial-grade units have an e-coated coil and powder-coated steel cabinet to resist corrosion. Units are hardwired and have a 15A circuit with a time-delay fuse. Meet ANSI/UL 484 Room A/C, SASO 2681, UL Listed for use in Class I, Div. 2, Groups A, B, C and D, ISA 12.12.101, and NFPA 70.



No. 22D138

Cooling Cap.	Average Coverage Area	EER	Voltage	No. of Speeds	H	W	D	Mfr. Model	Item No.
14,000/14,500 BtuH	550 to 700 sq ft	9.7/9.7	208/230V AC	1	15 15/16 in	25 15/16 in	27 3/8 in	SH15M30	**22D138**
19,000/19,000 BtuH	700 to 1000 sq ft	9.6/9.7	208/230V AC	1	17 15/16 in	25 15/16 in	27 3/8 in	SH20M30	**35MW48**



No. 494L36



Architectural Grille
No. 3UD86



Wall Sleeve
No. 4PKZ3

FRIEDRICH

Commercial-Grade Through-the-Wall Air Conditioners

- Programmable
- Auto restart
- Quiet operation
- Control panel lockout (ON-OFF)
- 24-hr. timer
- Anti-intrusion protection

These through-the-wall air conditioners are made for commercial-grade applications with components that withstand more demanding environments. They're commonly used for cooling offices, retail stores, multifamily buildings, barracks, and dorms. Units have remote capability and can be managed via Wi-Fi to allow centralized control of settings for one or more units. They're also compatible with Amazon Alexa and Google Home. New installations require a wall sleeve and fit in Friedrich® and Fedders™ A and B 27" sleeves.

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D†	Mfr. Model	Item No.
Cooling Only										
8000 BtuH	300 to 350 sq ft	10.6	115V AC	LCDI, 5-15P	3	15 75/100 in	26 ½ in	21 in	WCT08A10	**494L39**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC	LCDI, 5-15P	3	15 75/100 in	26 ½ in	21 in	WCT10A10	**494L40**
10,000 BtuH	400 to 450 sq ft	10.6	230V AC	LCDI, 5-15P	3	15 75/100 in	26 ½ in	21 in	WCT10A30	**494L41**
12,000 BtuH	450 to 550 sq ft	9.5	115V AC	LCDI, 5-15P	3	15 75/100 in	26 ½ in	21 in	WCT12A10	**494L42**
12,000 BtuH	450 to 550 sq ft	9.5	230V AC	LCDI, 6-15P	3	15 75/100 in	26 ½ in	21 in	WCT12A30	**494L43**
16,000 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-15P	3	15 75/100 in	26 ½ in	21 in	WCT16A30	**494L44**
Cooling/Heating, Electric Heat										
10,000 BtuH	400 to 450 sq ft	10.6	230V AC	LCDI, 6-20P	3	15 75/100 in	26 ½ in	21 in	WET10A33	**494L36**
12,000 BtuH	450 to 550 sq ft	9.5	230V AC	LCDI, 6-20P	3	15 75/100 in	26 ½ in	21 in	WET12A33	**494L37**
15,400 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-20P	3	15 75/100 in	26 ½ in	21 in	WET16A33	**494L38**
Cooling/Heating, Heat Pump										
12,000 BtuH	450 to 550 sq ft	9.3	230V AC	LCDI, 6-20P	3	15 75/100 in	26 ½ in	21 in	WHT12A33	**494L45**
Accessories										
Architectural Grille									AG	**3UD86**
Drain Kit									DK	**3UD88**
Wall Sleeve, 16 ¾ inH x 27 inW x 16 ¾ inD, For Use With Wall master through the wall air conditioners									WSE	**4PKZ3**

† Depth includes front cover.



No. 494L26



No. 470D57

FRIEDRICH FRIGIDAIRE GE

Residential-Grade Through-the-Wall Air Conditioners

- 24-hr. timer
- Auto restart
- Washable filter

Through-the-wall air conditioners that are made of residential-grade materials and have a decorative front grille that blends in with home interiors. They're typically used to cool rooms in houses and apartments. Units include a remote control.

Friedrich—Units can be managed with Wi-Fi and are compatible with Amazon Alexa and Google Home. Units have Seacoast Protection to guard against corrosion. Trim kit is included to give units a finished appearance. Chassis fits 24½" to 27" sleeves.

- Quiet operation

Frigidaire®—Chassis fits most existing wall sleeves. New installations require Wall Sleeve Kit No. 5PP42.

- Programmable

GE—Units are ADA compliant. Wall sleeve is included.

- Programmable

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Brand	Mfr. Model	Item No.
Cooling Only											
8000 BtuH	300 to 350 sq ft	10.6	115V AC	LCDI, 5-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT08A10	**494L30**
9800/10,000 BtuH	400 to 450 sq ft	10.6	208/230V AC	LCDI, 6-15P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTA103WA2	**470D59**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC	LCDI, 5-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT10A10	**494L31**
10,000 BtuH	400 to 450 sq ft	10.6	230V AC	LCDI, 6-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT10A30	**494L32**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC	LCDI, 5-15P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTA103WA1	**470D58**
11,700/12,000 BtuH	450 to 550 sq ft	10.5	208/230V AC	LCDI, 6-15P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTA123WA2	**470D62**
12,000 BtuH	450 to 550 sq ft	10.5	115V AC	LCDI, 5-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT12A10	**494L33**
12,000 BtuH	450 to 550 sq ft	10.5	230V AC	LCDI, 6-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT12A30	**494L34**
14,000/14,000 BtuH	550 to 700 sq ft	9.3	208/230V AC	LCDI, 6-15P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTA142WA2	**470D64**
14,000 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-20P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UCT14A30	**494L35**
Cooling/Heating, Electric Heat											
4100/8300 BtuH	300 to 350 sq ft	—	115V AC	LCDI, 5-20P	2	14 ¾ in	24 ¾ in	19 ⅞ in	GE	AJEQ08ACF	**6AMC2**
8000 BtuH	300 to 350 sq ft	9.6	115V AC	LCDI, 5-15P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UET08A11	**494L26**
8000 BtuH	300 to 350 sq ft	9.6	115V AC	LCDI, 5-15P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTH082WA1	**470D57**
9800/10,000 BtuH	400 to 450 sq ft	9.6	208/230V AC	LCDI, 6-20P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTH102WA2	**470D60**
10,000 BtuH	400 to 450 sq ft	9.6	230V AC	LCDI, 6-20P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UET10A33	**494L27**
11,400/11,600 BtuH, 9500/11,600	400 to 450 sq ft	—	208/230V AC	LCDI, 6-20P	2	15 ⅝ in	26 in	16 ⅞ in	GE	AJEQ12DCF	**6AMC3**
11,700/12,000 BtuH	450 to 550 sq ft	9.5	208/230V AC	LCDI, 6-20P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTH122WA2	**470D63**
12,000 BtuH	450 to 550 sq ft	9.6	230V AC	LCDI, 6-20P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UET12A33	**494L28**
14,000/14,000 BtuH	550 to 700 sq ft	9.3	208/230V AC	LCDI, 6-20P	3	14 ½ in	24 in	20 ⅝ in	Frigidaire	FFTH142WA2	**470D65**
14,000 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-20P	3	14 ½ in	24 3⁄16 in	20 5⁄16 in	Friedrich	UET14A33	**494L29**
Accessories											
Architectural Grille, For Use with Friedrich Uni-Fit Through The Wall USC Sleeve									Friedrich	UXAA	**46E371**
Architectural Grille, For Use with Frigidaire Through The Wall Air Conditioners									Frigidaire	5304515640	**5H443**
Sleeve Kit, 15¼"H x 25½"W x 17½"D, For Use with Frigidaire Through-the-Wall Air Conditioners									Frigidaire	5304514430	**5PP42**
Wall Sleeve, 15½ H x 25⅞ W x 16¾"D, For Use With Friedrich Uni-Fit Air Conditioners									Friedrich	USC	**2RLC7**

Packaged Terminal Air Conditioners with Electric Heat

- Quiet operation
- 2-motor design
- Power cord included

Contain separate cooling and heating systems for overcoming harsher winter temperatures. Electric heating element provides heat on days when temperatures fall below freezing. Packaged terminal air conditioners (PTACs) typically run more quietly and have a longer service than packaged terminal heat pumps (PTHPs), but use more energy for heating.

FRIEDRICH Amana

Friedrich®—Wall sleeve is required for new construction, sold separately.

Amana®—New installations require an exterior grille and wall sleeve, sold separately.



No. 31TN70

Cooling Cap.	Average Coverage Area	EER	Voltage	NEMA Plug Configuration	Heating Cap.	Brand	WITH SEACOAST PROTECTION Mfr. Model	WITH SEACOAST PROTECTION Item No.	WITHOUT SEACOAST PROTECTION Mfr. Model	WITHOUT SEACOAST PROTECTION Item No.
Without Outside Make-Up Air										
7200/7000 BtuH	250 to 300 sq ft	13.0/13.0	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDE07K3SG	**31TN70**	—	—
7200 BtuH	250 to 300 sq ft	13.0	265V AC	LCDI, 7-20P	11,700	Friedrich	PDE07R3SG	**31TN71**	—	—
7700 BtuH	250 to 300 sq ft	11.5/11.7	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTC073G25CXXX	**36PT39**	PTC073G25AXXX	**36PT49**
7700 BtuH	250 to 300 sq ft	11.5/11.7	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTC073G35CXXX	**36PT40**	PTC073G35AXXX	**36PT50**
9000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTC093G25CXXX	**36PT41**	PTC093G25AXXX	**36PT51**
9000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTC093G35CXXX	**36PT42**	PTC093G35AXXX	**36PT52**
9000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTC093G50CXXX	**36PT43**	PTC093G50AXXX	**36PT53**
9200/9400 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDE09K3SG	**31TN72**	—	—
9400 BtuH	350 to 400 sq ft	12.1	265V AC	LCDI, 7-20P	11,700	Friedrich	PDE09R3SG	**31TN73**	—	—
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTC123G25CXXX	**36PT44**	PTC123G25AXXX	**36PT54**
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTC123G35CXXX	**36PT45**	PTC123G35AXXX	**36PT55**
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTC123G50CXXX	**36PT46**	PTC123G50AXXX	**36PT56**
11,600/11,800 BtuH	400 to 450 sq ft	11.6/11.6	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDE12K3SG	**31TN74**	—	—
11,800 BtuH	400 to 450 sq ft	11.6	265V AC	LCDI, 7-20P	11,700	Friedrich	PDE12R3SG	**31TN75**	—	—
14,200/14,500 BtuH	550 to 700 sq ft	10.4/10.4	208/230V AC	LCDI, 6-30P	17,000/13,900	Friedrich	PDE15K5SG	**31TN76**	—	—
14,700/15,000 BtuH	550 to 700 sq ft	10.0/10.0	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTC153G35CXXX	**36PT47**	PTC153G35AXXX	**36PT57**
14,700/15,000 BtuH	550 to 700 sq ft	10.0/10.0	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTC153G50CXXX	**36PT48**	PTC153G50AXXX	**36PT58**

Packaged Terminal Air Conditioners with Heat Pump

- Quiet operation
- 2-motor design
- Power cord included

These packaged terminal air conditioners (PTACs) have a heat pump for reversible operation to switch between cooling and heating for year-round climate control. Heat pump uses less energy for heating than electrical heat when outdoor temperatures stay above freezing, making them ideal for climates with mild winters. Also called packaged terminal heat pumps (PTHPs), they have an auxiliary electric heater for heating on days when temperatures fall below freezing.

FRIEDRICH Amana

Friedrich®—Wall sleeve is required for new construction, sold separately. Nos. 467X23 and 467X24 include washable MERV 8 filter.

Amana®—New installations require an exterior grille and wall sleeve, sold separately.



No. 36PT59

Cooling Cap.	Average Coverage Area	EER	Voltage	NEMA Plug Configuration	Heating Cap.	Brand	WITH SEACOAST PROTECTION Mfr. Model	WITH SEACOAST PROTECTION Item No.	WITHOUT SEACOAST PROTECTION Mfr. Model	WITHOUT SEACOAST PROTECTION Item No.
With Outside Make-Up Air										
9400/9600 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,942	Friedrich	PVH09K3F	**467X23**	—	—
11,800/12,000 BtuH	450 to 550 sq ft	11.3/11.4	208/230V AC	LCDI, 6-20P	11,942	Friedrich	PVH12K3F	**467X24**	—	—
Without Outside Make-Up Air										
7000/7200 BtuH	250 to 300 sq ft	13.0/13.0	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDH07K3SG	**31TN77**	—	—
7200 BtuH	250 to 300 sq ft	13	265V AC	LCDI, 7-20P	11,700	Friedrich	PDH07R3SG	**31TN78**	—	—
7700 BtuH	250 to 300 sq ft	11.7	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTH073G25CXXX	**36PT59**	PTH073G25AXXX	**36PT69**
7700 BtuH	250 to 300 sq ft	11.7	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTH073G35CXXX	**36PT60**	PTH073G35AXXX	**36PT70**
9000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTH093G25CXXX	**36PT61**	PTH093G25AXXX	**36PT71**
9000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTH093G35CXXX	**36PT62**	PTH093G35AXXX	**36PT72**
9000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTH093G50CXXX	**36PT63**	PTH093G50AXXX	**36PT73**
9200/9400 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDH09K3SG	**31TN79**	—	—
9400 BtuH	350 to 400 sq ft	12.1	265V AC	LCDI, 7-20P	11,700	Friedrich	PDH09R3SG	**31TN80**	—	—
11,600/11,800 BtuH	400 to 450 sq ft	11.6/11.6	208/230V AC	LCDI, 6-20P	11,700/9600	Friedrich	PDH12K3SG	**31TN81**	—	—
11,800 BtuH	400 to 450 sq ft	11.6	265V AC	LCDI, 7-20P	11,700	Friedrich	PDH12R3SG	**31TN82**	—	—
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-15P	8500/6800	Amana	PTH123G25CXXX	**36PT64**	PTH123G25AXXX	**36PT74**
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTH123G35CXXX	**36PT65**	PTH123G35AXXX	**36PT75**
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTH123G50CXXX	**36PT66**	PTH123G50AXXX	**36PT76**
14,200/14,500 BtuH	550 to 700 sq ft	10.4/10.4	208/230V AC	LCDI, 6-30P	17,000/13,900	Friedrich	PDH15K5SG	**31TN83**	—	—
14,500 BtuH	550 to 700 sq ft	9.7	208/230V AC	LCDI, 6-20P	12,000/9900	Amana	PTH153G35CXXX	**36PT67**	PTH153G35AXXX	**36PT77**
14,500 BtuH	550 to 700 sq ft	9.7	208/230V AC	LCDI, 6-30P	17,100/14,000	Amana	PTH153G50CXXX	**36PT68**	PTH153G50AXXX	**36PT78**

Description	Mfr. Model	Item No.
Amana® Accessories		
Drain Kit	DK900D	**36PT82**
Electric Subbase, 115/208/230V 15/20A	PTSB320E	**36PT87**
Electric Subbase, 208/230/265V 30A	PTSB330E	**36PT88**
Hardwire Kit, 230/265V	PTPWHWK4	**36PT90**
Mechanical Thermostat	D9945801	**36PV03**
Non-Programmable Thermostat, 2-Stage Heat / 1-Stage Cool or Heat Pump	PHWT-A150H	**36PV05**
Power Disconnect Switch, 208/230V	PSHW03A	**36PT92**
Return Air Grille, Aluminum, 16 ½ inH x 42 $^{13}/_{32}$ inW x 1 $^{39}/_{64}$ inD	AGK01	**36PT81**
Return Air Grille, Metal, 16 ½ inH x 42 $^{13}/_{32}$ inW x 1 $^{39}/_{64}$ inD	SGK01B	**36PT80**
Wall Sleeve, Metal, Beige, 16 $^{1}/_{16}$ inH x 42 inW x 14 ⅛ inD	WS900E	**36PT79**
Friedrich® Accessories		
Architectural Grille, Beige	PXBG	**1VXT9**
Architectural Grille, Clear	PXAA	**1VXU3**
Condensate Drain Kit	PXDR10	**1VXU1**
Insulated Wall Sleeve, 16 inH x 42 inW x 13 ¾ inD	PDXWSA	**1VXU2**
Power Cord, 230/208VAC, 6-15P	PXPC23015A	**31TN87**
Power Cord, 230/208VAC, 6-20P	PXPC23020A	**31TN88**
Power Cord, 265VAC, 6-15P	PXPC26515A	**31TN89**
Power Cord, 265VAC, 7-20P	PXPC26520A	**31TN90**
Powered Subbase, 265V 30A	PXSB26530	**6DPW8**
Standard Grille, Anodized Silver	PXGA	**1VXT8**
Wired Thermostat, 24VAC/DC	EMRT	**483F37**
Wired Thermostat, 24VDC	RT7	**54ZV40**
Wireless Thermostat, 24VDC, 24V DC	WRT2	**54ZV42**

Amana FRIEDRICH

Packaged Terminal Air Conditioner Accessories

Find additional wall air conditioner accessories on Grainger.com®.



No. 36PT82



No. 36PV05



No. 1VXU2



No. 483F37



No. 31TN87



Multizone Ductless Mini-Split Indoor Wall-Mount Air Handlers

FRIEDRICH
FRIGIDAIRE

- 208/230VAC
- Programmable
- Remote control

Fasten to a wall (typically near the ceiling) to blow cooled or heated air into a room or area. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity to form a multizone mini-split system for cooling more than one room.

Friedrich®—New installations require refrigerant line set, sold separately on Grainger.com®.

- Seacoast protection
- WiFi-capable

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Brand	Mfr. Model	Item No.
7,000 BtuH	300 up to 350 sq ft	8,500 BtuH	0	11 in	37 3/8 in	8 1/8 in	Friedrich Floating Air	FPHMW07A3B	**55MN68**
9,000 BtuH	350 to 400 sq ft	11,000 BtuH	23	11 3/8 in	33 17/64 in	8 15/64 in	Frigidaire	FFHP093WS2	**49EP68**
9,000 BtuH	400 up to 450 sq ft	9,500 BtuH	22.5	11 in	37 3/8 in	8 1/8 in	Friedrich Floating Air	FPHFW09A3B	**55MN69**
12,000 BtuH	450 to 550 sq ft	13,000 BtuH	22	11 3/8 in	33 17/64 in	8 15/64 in	Frigidaire	FFHP123WS2	**49EP70**
12,000 BtuH	500 up to 600 sq ft	13,000 BtuH	22	11 in	37 3/8 in	8 1/8 in	Friedrich Floating Air	FPHFW12A3B	**55MN70**
18,000 BtuH	700 to 1000 sq ft	18,900 BtuH	20	11 13/16 in	38 13/64 in	8 53/64 in	Frigidaire	FFHP183WS2	**49EP72**
18,000 BtuH	700 up to 800 sq ft	19,000 BtuH	23.3	13 in	48 in	9 1/4 in	Friedrich Floating Air	FPHFW18A3B	**55MN71**
22,000 BtuH	1000 to 1200 sq ft	23,000 BtuH	20	12 13/16 in	42 29/64 in	9 45/64 in	Frigidaire	FFHP223WS2	**49EP74**
23,500 BtuH	1000 up to 1200 sq ft	26,000 BtuH	21	13 in	48 in	9 1/4 in	Friedrich Floating Air	FPHFW24A3B	**55MN72**



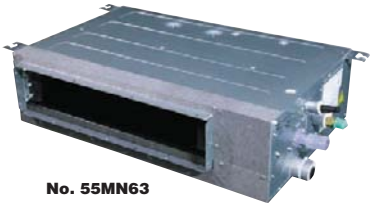
Multizone Ductless Mini-Split Indoor Ceiling-Mount Cassette Air Handlers

FRIEDRICH

- 208/230VAC
- Seacoast protection
- WiFi-capable
- Programmable
- Remote Control

Commonly installed in the center of a room within a cutout or drop ceiling. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity to form a multizone mini-split system for cooling more than one room. New installations require refrigerant line set, sold separately on Grainger.com®.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
12,000 BtuH	500 up to 600 sq ft	14,400 BtuH	19	8 1/2 in	22 1/2 in	22 1/2 in	FPHFC12A3B	**55MN61**
18,000 BtuH	700 up to 800 sq ft	21,200 BtuH	19	14 1/2 in	33 in	33 in	FPHFC18A3B	**55MN62**



Multizone Ductless Mini-Split Indoor Ceiling-Mount Concealed Duct Air Handlers

FRIEDRICH

- 208/230VAC
- Seacoast protection
- WiFi-capable
- Programmable
- Remote Control

Install within a ceiling, furr down, or soffit. They can be connected directly to a register or to ductwork. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity to form a multizone mini-split system. New installations require refrigerant line set, sold separately on Grainger.com®.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
12,000 BtuH	500 up to 600 sq ft	14,400 BtuH	19	22 1/4 in	42 1/2 in	11 1/4 in	FPHFD12A3A	**55MN63**
18,000 BtuH	700 up to 800 sq ft	21,200 BtuH	19	22 1/4 in	53 in	11 in	FPHFD18A3A	**55MN64**



Multizone Ductless Mini-Split Outdoor Condensers

FRIEDRICH
FRIGIDAIRE

- 208/230VAC

Used as part of a multizone mini-split system along with two or more indoor air handlers. Weather-resistant cabinet houses and protects compressor, condenser coils, and other interior components. Can be roof-mounted or placed on the ground outside a wall.

Friedrich®—New installations require refrigerant line set, sold separately on Grainger.com®.

- Seacoast protection
- WiFi-capable
- Programmable
- Remote Control

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Outdoor Height	Outdoor Width	Outdoor Depth	Brand	Mfr. Model	Item No.
7,000 BtuH	700 up to 800 sq ft	18,000 BtuH	0	26 3/8 in	33 7/8 in	12 1/4 in	Friedrich Floating Air	FPHMR18A3A	**55MN65**
9,000 BtuH	350 to 400 sq ft	11,000 BtuH	23	21 17/64 in	33 3/8 in	12 39/64 in	Frigidaire	FFHP093CS2	**49EP69**
9,000 BtuH	1000 up to 1200 sq ft	24,000 BtuH	0	33 in	37 3/8 in	13 3/8 in	Friedrich Floating Air	FPHMR24A3A	**55MN66**
12,000 BtuH	450 to 550 sq ft	13,000 BtuH	22	23 19/64 in	33 3/8 in	12 39/64 in	Frigidaire	FFHP123CS2	**49EP71**
12,000 BtuH	1800 up to 2000 sq ft	36,000 BtuH	0	41 3/8 in	37 3/8 in	13 3/8 in	Friedrich Floating Air	FPHMR36A3A	**55MN67**
18,000 BtuH	700 to 1000 sq ft	18,900 BtuH	20	27 9/16 in	37 39/64 in	15 19/32 in	Frigidaire	FFHP183CS2	**49EP73**
22,000 BtuH	1000 to 1200 sq ft	23,000 BtuH	20	31 7/64 in	38 37/64 in	16 51/64 in	Frigidaire	FFHP223CS2	**49EP75**
28,000 BtuH	1400 to 1500 sq ft	28,400 BtuH	16	31 7/64 in	38 19/32 in	16 13/16 in	Frigidaire	FFHP302CQ2	**31XL64**
33,600 BtuH	1500 to 2000 sq ft	34,600 BtuH	16	31 7/64 in	38 19/32 in	16 13/16 in	Frigidaire	FFHP362CQ2	**31XL66**



Mini-Split Tool Kits

YELLOW JACKET

Item	Includes	Brand	Mfr. Model	Item No.
Mini-Split Tool Kit	Heat Pump Manifold, Hoses, Flare Tool, Hex Key Set, Vacuum/ Charge Valve, R410-A Coupler, Torque Wrench, Tube Cutter & Bag	Yellow Jacket	60991	**21HF08**
Mini-Split Tool Kit	1/4 in Brass Caps (5), 1/4 in High Pressure KOBRA Hose Set, 1/4 in Shield Locking Caps (4), 1/4 in Valve Core Removal Tool, 5/16 in Male x 1/4 in Female Brass Adapters (2), Flaring Tool, Hex Key Set, JB Backpack, Patriot Manifold with R410A gauges, Torque Wrench	JB Industries	MSKIT1	**35YX50**
Mini-Split Tool Kit	(2) 1/4 in Male x 5/16 in Female Brass Adapters, (4) 5/16 in Shield Locking Caps, (5) 5/16 in Brass Caps, 5/16 in High Pressure KOBRA Hose Set, 5/16 in Valve Core Removal Tool, Flaring Tool, Hex Key Set, JB Backpack includes PATRIOT Manifold with R410A, Torque Wrench Kit	JB Industries	MSKIT2	**35YX51**
Interchangeable Head Torque Wrench Kit	(6) Interchangeable Heads: 17, 22, 24, 26, 27, 29mm, Release Tool, Blow Molded Case	Yellow Jacket	60650	**33NT62**
Interchangeable Head Torque Wrench Kit	(8) Interchangeable Heads: 16, 17, 21, 22, 24, 26, 27, 29mm, Release Tool, Blow Molded Case	Yellow Jacket	60652	**33NT63**

FRIGIDAIRE FRIEDRICH

Single-Zone Ductless Mini-Split Systems with Wall-Mount Air Handler

- Cooling/Heating, Heat Pump
- Programmable
- Remote Control

Include a condenser and a wall-mount air handler for standard installations.

Friedrich®—New installations require refrigerant line set, sold separately on Grainger.com®.

- WiFi-capable
- Seacoast protection

Frigidaire®—25-ft. line set included.



No. 43GW91



No. 55MN54

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Voltage	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Brand	Mfr. Model	Item No.
9,000 BtuH	350 to 400 sq. ft.	11,000 BtuH	23	208/230VAC	11.38"	33.27"	8.23"	Frigidaire	43GW91	**43GW91**
9,000 BtuH	400 up to 450 sq ft	10,500 BtuH	19.5	115V AC	11 1/8 in	33 7/8 in	8 1/2 in	Friedrich Floating Air	FPHW09A	**55MN54**
9,000 BtuH	400 up to 450 sq ft	10,500 BtuH	22.5	208/230V AC	11 1/8 in	33 7/8 in	8 1/2 in	Friedrich Floating Air	FPHW093A	**55MN56**
12,000 BtuH	450 to 550 sq. ft.	13,000 BtuH	22	208/230VAC	11.38"	33.27"	8.23"	Frigidaire	43GW92	**43GW92**
12,000 BtuH	500 up to 600 sq ft	14,000 BtuH	22	115V AC	11 1/8 in	33 7/8 in	8 1/2 in	Friedrich Floating Air	FPHW121A	**55MN55**
12,000 BtuH	500 up to 600 sq ft	14,000 BtuH	22	208/230V AC	11 1/8 in	33 7/8 in	8 1/2 in	Friedrich Floating Air	FPHW123A	**55MN57**
18,000 BtuH	700 to 1000 sq. ft.	18,900 BtuH	20	208/230VAC	11.81"	38.19"	8.82"	Frigidaire	43GW93	**43GW93**
18,000 BtuH	700 up to 800 sq ft	19,500 BtuH	23.3	208/230V AC	13 1/8 in	45 1/8 in	10 in	Friedrich Floating Air	FPHW183A	**55MN58**
21,400 BtuH	1000 to 1200 sq. ft.	23,000 BtuH	20	208/230VAC	12.8"	42.44"	9.69"	Frigidaire	43GW94	**43GW94**
23,500 BtuH	1000 up to 1200 sq ft	26,500 BtuH	21	208/230V AC	13 1/8 in	45 1/8 in	10 in	Friedrich Floating Air	FPHW243A	**55MN59**
28,000 BtuH	1400 to 1500 sq. ft.	28,400 BtuH	16	208/230VAC	12 13/16"	53 7/64"	10"	Frigidaire	7DH43	**7DH43**
33,600 BtuH	1500 to 2000 sq. ft.	34,600 BtuH	16	208/230VAC	12 13/16"	53 7/64"	10"	Frigidaire	7DH44	**7DH44**
36,000 BtuH	1800 up to 2000 sq ft	28,000 BtuH	16.4	208/230V AC	13 5/8 in	50 5/8 in	10 1/4 in	Friedrich Floating Air	FPHW363A	**55MN60**

FRIEDRICH

Single-Zone Ductless Mini-Split System with Ceiling-Mount Cassette Air Handler



- 208/230VAC
- Cooling/Heating, Heat Pump
- Seacoast protection
- Programmable
- Remote control

Includes a condenser and a ceiling-mount cassette air handler for overhead installations. The condenser can either be roof-mounted or placed on the ground outside a wall.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
36,000 BtuH	2000 to 2500 sq ft	40,000 BtuH	19	11 3/8 in	33 1/16 in	33 1/16 in	C36YJ	**22XR61**



FRIEDRICH

Single-Zone Ductless Mini-Split System with Ceiling or Wall-Mount Concealed-Duct Air Handler



- 208/230VAC
- Cooling/Heating, Heat Pump
- Seacoast protection
- Programmable
- Remote control
- Internal condensate pump

Includes a condenser and a concealed ceiling-mount air handler that can connect directly to a register or to ductwork for delivering air to different parts of a room. Air handler installs in ceilings, furr downs, or soffits. The condenser can either be roof-mounted or placed on the ground outside a wall.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
24,000 BtuH	1400 to 1500 sq ft	27,000 BtuH	17	11 3/4 in	46 9/16 in	17 3/4 in	D24YJ	**31TP01**



No. 55MN75



No. 55MN74

FRIEDRICH

Ductless Mini-Split Accessories

These accessories are made for Friedrich ductless mini-split air conditioners to ensure compatibility and proper function.

For Universal Ductless Mini-Split Accessories, go to Grainger.com®.

Description	Mfr. Model	Item No.
Cassette Grille, For use with Friedrich Ductless Cassette Larger BTU	FPCG182436	**55MN76**
Cassette Grille, For use with Friedrich Ductless Cassette Smaller BTU	FPCG0912	**55MN75**
Wall Controller, For use with All Friedrich Ductless Split Systems	FPWC1	**55MN74**

MOVINCOOL
The #1 Spot Cooling Solution

Ceiling Air Conditioner

- Air-cooled, vented

Slim top-to-bottom profile fits above drop ceilings. Intake and exhaust flanges connect to ceiling ducts to cool computer rooms, telecom closets, offices, and healthcare facilities. Unit hardwires into an electrical circuit and has built-in mounting brackets for attaching to ceiling down rods.



No. 36P688

Cooling Cap.	Average Coverage Area	Voltage	Sound Level	H	W	D	Mfr. Model	Item No.
Air Conditioners								
10,500 BtuH	400 to 450 sq ft	115V AC	52 dB	15 1/8 in	32 in	20 in	CM12	**36P688**

Description	Mfr. Model	Item No.
Accessories		
Condenser Intake Air Plenum, For Use With Mfr. No. CM12	481769-0221	**36P692**
Exhaust Air Flange, For Use With Mfr. No. CM12	481170-0440	**36P691**
Millivolt Thermostat, For Use With Classic 40, Classic 60, and CM12	LA484500-3430	**36P693**


No. 39EY94


No. 491J49


No. 494L24

Dayton FRIGIDAIRE FRIEDRICH

Light-Duty Portable Air Conditioners

- Air-cooled, ducted
- 115V
- Outside venting required
- Window adapter kit included

Can be wheeled into place to cool a small room or supplement the primary air conditioning system in offices, schools, and other areas. Require ducting to discharge hot exhaust air to the outdoors.

Dayton®—Drain hose included.

Friedrich®—Window slider kit fits vertical and horizontal openings.

BtuH Cooling - DOE SACC	Average Coverage Area	NEMA Plug Configuration	Sound Level	No. of Speeds	Max. Exhaust Hose Length	Max. Supply Hose Length	H	W	D	Key Features	Condensate Tank Capacity	Brand	Item No.
Cooling Only													
3800	100 to 150 sq. ft.	5-15P	49dBA	3	5 ft	17 ft	31 1/32"	19 13/32"	16 1/2"	Remote Control, WiFi-Capable	No Tank	Frigidaire	**55KJ59**
4,000	100 to 150 sq ft	LCDI, 5-15P	48/50/51dBA	3	6 ft	6 ft	27 15/16 in	18 1/16 in	15 3/16 in	Programmable, Remote Control	0.4L	Frigidaire	**491J48**
4,000	100 to 150 sq ft	LCDI, 5-15P	55dBA	2	5 ft	—	27 1/16 in	13 5/8 in	14 in	Programmable, Remote Control	No Tank	Dayton	**39EY94**
5,500	100 to 150 sq ft	LCDI, 5-15P	55dBA	2	5 ft	—	27 1/16 in	13 5/8 in	14 in	Programmable, Remote Control	No Tank	Dayton	**39EY95**
6,009	150 to 250 sq ft	LCDI, 5-15P	48/50/51dBA	3	6 ft	6 ft	27 13/16 in	18 1/16 in	15 3/16 in	Programmable, Remote Control	0.4L	Frigidaire	**491J49**
6,888	150 to 250 sq ft	LCDI, 5-15P	49/51/52dBA	3	6 ft	6 ft	27 15/16 in	18 1/16 in	15 3/16 in	Programmable, Remote Control	0.4L	Frigidaire	**491J50**
7,000	250 to 300 sq ft	LCDI, 5-15P	55dBA	3	5 ft	—	27 3/8 in	17 7/8 in	14 3/8 in	Programmable, Remote Control	No Tank	Dayton	**39EY96**
7,344	250 to 300 sq ft	LCDI, 5-15P	Not Rated	3	5 ft	5 ft	29 1/2 in	17 5/8 in	16 in	Remote Control	No Tank	Friedrich	**494L24**
7,700	250 to 300 sq ft	LCDI, 5-15P	49/51/52dBA	3	6 ft	6 ft	27 15/16 in	18 1/16 in	15 3/16 in	Programmable, Remote Control	0.4L	Frigidaire	**491J52**
Cooling/Heating, Electric Heat													
6,888	150 to 250 sq ft	LCDI, 5-15P	49/51/52dBA	3	6 ft	6 ft	31 5/16 in	19 7/16 in	16 9/16 in	Programmable, Remote Control	0.55L	Frigidaire	**491J51**
8,397	300 to 350 sq ft	LCDI, 5-15P	49/51/52dBA	3	6 ft	6 ft	31 5/16 in	19 3/8 in	16 9/16 in	Programmable, Remote Control	0.55L	Frigidaire	**491J53**
Cooling/Heating, Heat Pump													
5,150	100 to 150 sq ft	LCDI, 5-15P	Not Rated	3	6 ft	Variable	25 1/4 in	17 in	21 1/4 in	Remote Control	No Tank	Friedrich	**454H39**
6,025	150 to 250 sq ft	LCDI, 5-15P	Not Rated	3	6 ft	Variable	25 1/4 in	17 in	21 1/4 in	Remote Control	No Tank	Friedrich	**454H40**
6,888	150 to 250 sq ft	LCDI, 5-15P	Not Rated	3	6 ft	Variable	31 1/8 in	16 in	21 1/4 in	Remote Control	No Tank	Friedrich	**467X21**
8,397	300 to 350 sq ft	LCDI, 5-15P	Not Rated	3	5 ft	5 ft	29 1/2 in	17 5/8 in	16 in	Remote Control	No Tank	Friedrich	**494L25**


No. 40JZ85


No. 43LD80


No. 6RHW7

Dayton TRIPP·LITE

Heavy-Duty Air-Cooled Portable Air Conditioners

- 24-hr. timer

Provide cool, dehumidified air for cooling people, processes, and equipment. Ideal for rack enclosures, network closets, and areas without access to facility HVAC. Condensate is re-evaporated for drip-free operation, so no floor drain is required and no water tank needs to be emptied.

Cooling Cap.	Average Coverage Area	Voltage	NEMA Plug Configuration	No. of Speeds	Max. Exhaust Hose Length	Max. Supply Hose Length	H	W	D	Key Features	Brand	Mfr. Model	Item No.
Air-Cooled Ducted													
10,000 BtuH	100 to 150 sq ft	120V AC	LCDI, 5-15P	3	6 ft 7 in	—	24 3/4 in	11 3/4 in	17 3/4 in	Programmable, Remote Control	Dayton	40JZ85	**40JZ85**
18,000 BtuH	700 to 1000 sq ft	208V AC	L6-20P	4	10 ft	6 ft	38 13/64 in	20 1/2 in	21 45/64 in	Programmable, Tamper Resistant, Cellular Control	Tripp Lite	SRCOOL18K	**43LD80**
24,000 BtuH	1400 to 1500 sq ft	208V AC	L6-20P	4	10 ft	6 ft	38 13/64 in	20 1/2 in	21 45/64 in	Programmable, Tamper Resistant, Cellular Control	Tripp Lite	SRCOOL24K	**43LD81**
33,000 BtuH	2000 to 2500 sq ft	208V AC	L6-30P	Variable	—	—	78 13/32 in	23 39/64 in	42 45/64 in	Programmable, Tamper Resistant, Cellular Control	Tripp Lite	SRCOOL33K	**43ME35**
Air-Cooled Vented													
12,000 BtuH	450 to 550 sq ft	120V AC	LCDI, 5-15P	3	10 ft	6 ft	32 3/5 in	12 3/5 in	19 3/4 in	Programmable, Remote Control, WiFi-Capable	Tripp Lite	SRCOOL12K	**6RHW7**


No. 4PKR1

L	Mfr. Model	Item No.
Hose Kits with Quick-Connect Fittings		
10 ft	88SA0763504	**13M332**
20 ft	88SA0763505	**13M330**
40 ft	88SA0763506	**13M331**

KOLDWAVE

Heavy-Duty Water-Cooled Portable Air Conditioners

- Ambient temp. range: 70° to 113°F
- 2 cooling speeds

Provide high-capacity air conditioning where no window or outside air source is available. Units connect to a water supply and drain. 18" quick-connect hose included; additional hose kits sold separately. Automatic regulating valve shuts off water flow when the compressor is not running. Great for computer rooms, medical equipment rooms, and telecommunication equipment rooms.

Cooling Cap.	Average Coverage Area	Voltage	NEMA Plug Configuration	H	W	D	Heating Cap.	Mfr. Model	Item No.
Cooling Only									
6,300 BtuH	150 to 250 sq ft	115V AC	LCDI, 5-15P	17 5/8 in	22 3/8 in	12 in	—	5WK07BEA1AAA0	**4PKP3**
10,800 BtuH	400 to 450 sq ft	115V AC	LCDI, 5-15P	31 1/2 in	25 in	10 3/16 in	—	5WK14BEA1AAA0	**4PKP4**
16,100 BtuH	550 to 700 sq ft	230V AC	LCDI, 6-15P	28 3/4 in	36 in	12 1/4 in	—	5WK18BGA1AAA0	**4PKP5**
23,000 BtuH	1200 to 1400 sq ft	230V AC	LCDI, 6-15P	28 3/4 in	36 in	12 1/4 in	—	5WK26BGA1AAA0	**4PKP7**
Cooling/Heating, Heat Pump									
7,000 BtuH	250 to 300 sq ft	115V AC	LCDI, 5-15P	17 5/8 in	22 3/8 in	12 in	7,800	5WK07BEA1AAH0	**4PKP9**
10,800 BtuH	400 to 450 sq ft	115V AC	LCDI, 5-15P	31 1/2 in	25 in	10 3/16 in	12,000	5WK14BEA1AAH0	**4PKR1**
19,100 BtuH	700 to 1000 sq ft	230V AC	LCDI, 6-15P	28 3/4 in	36 in	12 1/4 in	18,000	5WK18BGA1AAH0	**4PKR2**
27,300 BtuH	1400 to 1500 sq ft	230V AC	LCDI, 6-15P	28 3/4 in	36 in	12 1/4 in	26,000	5WK26BGA1AAH0	**4PKR4**

Heavy-Duty Portable Air Conditioners

MOVINCOOL
The #1 Spot Cooling Solution

- Air-cooled vented
- Self-contained units are easy to install and operate

Provide cool, dehumidified air for cooling people, processes, and equipment. They're commonly used to cool assembly lines and critical processes.

Climate Pro® K Series— Models are designed for heat-sensitive server rooms, hospitals, laboratories, schools, and stuffy offices. May be used for emergency backup and supplemental cooling applications.

Climate Pro® X and Classic Series— Designed to spot cool warehouses, manufacturing plants, and outdoor events. Also suitable for process cooling and moisture removal.

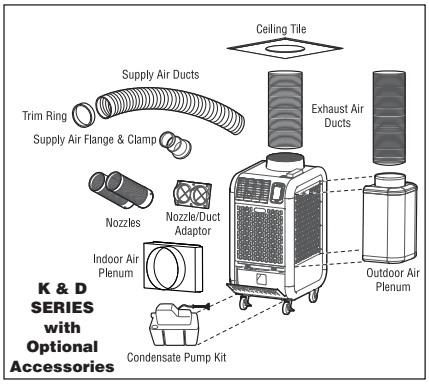
Climate Pro® D Series (Heat Pump)— Portable heat pumps feature reversible operation to switch between cooling and heating modes for year-round climate control in moderate climates.


Climate Pro K60

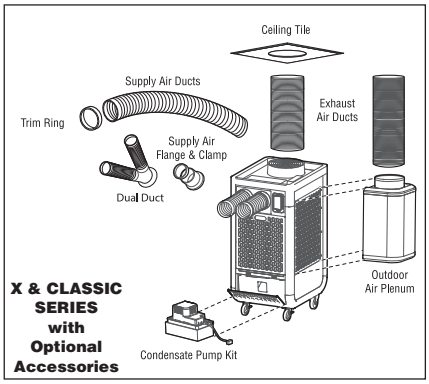

Climate Pro X14


Climate Pro D12

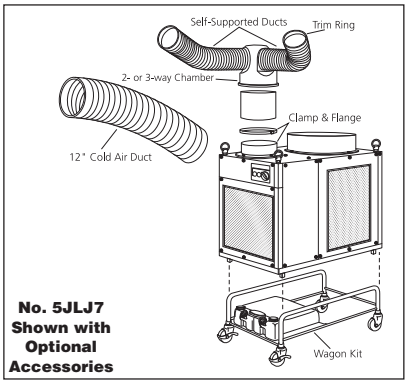
Cooling Cap.	Average Coverage Area	Phase	Voltage	NEMA Plug Configuration	W	D	H	Key Features	Heating Cap.	Mfr. Model	Item No.
Climate Pro K Series, 3 Speeds											
12,000 BtuH	450 to 550 sq. ft.	1	115VAC	LCDI, 5-15P	22"	27"	47"	Programmable	—	Climate Pro K12	**54ZV21**
16,800 BtuH	550 to 700 sq. ft.	1	115VAC	LCDI, 5-20P	22	27"	47"	Programmable	—	Climate Pro K18	**54ZV22**
24,000 BtuH	1400 to 1500 sq. ft.	1	208/230VAC	LCDI, 6-20P	22"	27"	51"	Programmable	—	Climate Pro K24	**54ZV23**
36,000 BtuH	2000 to 2500 sq. ft.	1	208/230VAC	LCDI, 6-30P	31"	55"	53"	Programmable	—	Climate Pro K36	**54ZV26**
60,000 BtuH	2000 to 2500 sq. ft.	1	208/230VAC	6-50P	31"	55"	64"	Programmable	—	Climate Pro K60	**54ZV27**
60,000 BtuH	2000 to 2500 sq. ft.	3	460VAC	L16-20P	31"	55"	64"	Programmable	—	Climate Pro K63	**54ZV28**
Climate Pro X Series, 3 Speeds											
13,200 BtuH	450 to 550 sq. ft.	1	115VAC	LCDI, 5-15P	22"	29"	48"	Programmable	—	Climate Pro X14	**54ZV24**
24,000 BtuH	1400 to 1500 sq. ft.	1	208/230VAC	LCDI, 6-20P	22"	29"	51"	Programmable	—	Climate Pro X26	**54ZV25**
16,800 BtuH	550 to 700 sq. ft.	1	115VAC	LCDI, 5-20P	22"	29"	51"	Cellular Control, Programmable	—	Climate Pro X20	**54ZV31**
Classic Series, 1 Speed											
10,000 BtuH	400 to 450 sq. ft.	1	115VAC	LCDI, 5-15P	19"	26"	41"	—	—	CLASSIC 10	**5JLJ8**
39,000 BtuH	2000 to 2500 sq. ft.	3	220VAC	L15-30P	26"	44"	38"	Remote Control	—	CLASSIC 40	**5JLJ7**
60,000 BtuH	2000 to 2500 sq. ft.	3	460VAC	Hardwired	32"	49"	42"	Remote Control	—	CLASSIC 60	**5JLJ4**
Climate Pro D Series (Heat Pump), 3 Speeds											
10,200 BtuH	400 to 450 sq. ft.	1	115VAC	LCDI, 5-15P	22"	27"	47"	Cellular Control	10,000	Climate Pro D12	**54ZV29**
15,500 BtuH	550 to 700 sq. ft.	1	115VAC	LCDI, 5-20P	22"	27"	51"	Cellular Control	13,000	Climate Pro D18	**54ZV30**



K & D SERIES with Optional Accessories



X & CLASSIC SERIES with Optional Accessories



No. 5JLJ7 Shown with Optional Accessories

Description	Mfr. Model	Item No.	X SERIES*								CLASSIC SERIES*			D SERIES*	
			54ZV21 K12	54ZV22 K18	54ZV23 K24	54ZV26 K36	54ZV27 54ZV28 K60/63	54ZV24 X14	54ZV25 X26	54ZV31 X20	5JLJ4 C60	5JLJ7 C40	5JLJ8 C10	54ZV29 D12	54ZV30 D18
Air Ducts, Adapters, and Trim Rings															
Accordion Exhaust Air Duct, 12" Dia. x 10 ft. L	LAY45771-0060	**5AE93**	●	●	●			●	●	●			●	●	●
Accordion Exhaust Air Duct Kit, 16" Dia. x 25 ft. L	LAY45820-0010	**1VK45**				●	●								
Accordion Supply Air Duct, 8" Dia. x 25 ft. L	LAY45810-0030	**1VK44**				●	●								
Dual Duct, 5" Dia.	484209-0500	**55AC34**						●	●	●					
Duct Adapter	481769-0300	**55AC27**				●	●								
Self Supported Duct, 12" Dia.	481744-0062	**55AC35**	●	●	●			●	●	●				●	●
Supply Air Self-Supported Duct, 5" Dia.	481744-0091	**55AC32**	●	●	●			●	●	●				●	●
Supply Air Self-Supported Duct, 6" Dia.	481744-0031	**55AC33**				●	●								
Trim Ring, 5" (Fits No. 5E358)	481851-0200	**5E360**	●	●	●			●	●	●			●	●	●
Trim Ring, 6" (Fits No. 5E359)	481851-0210	**5E361**				●	●				●	●			
Ceiling Tile Kits															
24 x 24" Ceiling Tile, 12" Dia.	LA146373-8280	**4YN24**	●	●	●			●	●	●			●	●	●
Ceiling Tile Kit, 12" Dia.	484490-1030	**55AC36**	●	●	●			●	●	●				●	●
Ceiling Tile Kit, 16" Dia.	484490-1040	**55AC37**				●	●								
Condensate Pump Kits															
Condensate Pump Kit, 115VAC	484789-0210	**55AC43**	●	●				●		●				●	●
Condensate Pump Kit, 230VAC	484789-0220	**55AC44**			●				●						
Nozzles and Adapters															
Nozzle Adapter Kit, 5" Dia.	481769-0280	**55AC25**	●	●	●									●	●
Nozzle Adapter Kit, 6" Dia.	481769-0290	**55AC26**				●	●								
Nozzle Kit, 5" Dia.	484209-0480	**55AC28**	●	●	●									●	●
Nozzle Kit, 6" Dia.	484209-0490	**55AC29**				●	●								
Plenums															
Indoor Air Plenum	484350-1210	**55AC47**					●								
Indoor Air Plenum	484350-1330	**55AC46**				●									
Outdoor Air Plenum	484350-1160	**55AC38**	●	●				●		●					
Outdoor Air Plenum	484350-1170	**55AC39**			●										
Outdoor Air Plenum	484350-1180	**55AC42**							●						
Outdoor Air Plenum	484350-1230	**55AC40**				●									
Outdoor Air Plenum	484350-1240	**55AC41**					●								
Supply Air Flanges															
Supply Air Flange Kit, 5" Dia.	481170-0450	**55AC30**	●	●	●			●	●	●				●	●
Supply Air Flange Kit, 6" Dia.	481170-0460	**55AC31**				●	●								

** For more accessories, go to Grainger.com® and search: "movincool accessories".*


No. 39E720


No. 5DPW9


No. 55JR29


No. 40JJ48


No. 6RJZ3

Portable Evaporative Coolers

Provide cool, humidified air in areas without combustible vapors, gases, or dust. They require regularly draining and cleaning the water tank and allowing the media to dry thoroughly between uses to prevent odors and clogging from sludge buildup.

Blade Dia.	Average Coverage Area	Air Flow	Water Cap.	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Brand	Mfr. Model	Item No.
11 ½ in	350 sq ft	700 cfm	6.0 gal	120V AC	5-15P	3	38 ½ in	19 ½ in	11 ½ in	Ultracool	CP70	**39E720**
15 in	2500 sq ft	2040/3020 cfm	24.0 gal	115V AC	5-15P	2	54 ½ in	33 ½ in	33 ½ in	WayCool	WCG-1HPMFAOSC	**5DPW9**
15 in	2500 sq ft	2040/3020 cfm	24.0 gal	115V AC	5-15P	2	54 ½ in	33 ½ in	33 ½ in	WayCool	WC-1HPMFAOSC	**5DPW8**
16 in	1125 sq ft	5500 cfm	50.0 gal	115V AC	5-15P	Variable	59 in	40 in	24 in	Portacool	PACJS2401A1	**40JJ46**
17 in	950 sq ft	3100 cfm	10 gal	115V AC	5-15P	3	35 in	26 in	18 in	Hessaire	M150	**55JR28**
19 in	1600 sq ft	5300 cfm	15 gal	115V AC	5-15P	3	42 in	31 in	19 in	Hessaire	M250	**55JR29**
24 in	2125 sq ft	9000 cfm	55.0 gal	115V AC	5-15P	Variable	70 in	52 in	30 in	Portacool	PACJS2501A1	**40JJ47**
30 in	3000 sq ft	11,000 cfm	33 gal	115V AC	5-15P	3	59 in	46 in	26 in	Hessaire	MC92V	**55JR30**
36 in	3125 sq ft	12,500 cfm	60.0 gal	115V AC	5-15P	Variable	77 in	63 in	30 in	Portacool	PACJS2601A1	**40JJ48**
48 in	5625 sq ft	22,500 cfm	65.0 gal	115V AC	5-20P	Variable	90 in	78 in	36 in	Portacool	PACJS2701A1	**40JJ49**
Blower Wheel	700 sq ft	2400 cfm	20.0 gal	115V AC	5-15P	Variable	42 in	29 in	27 in	Portacool	PACJS2201A1	**454G47**
Blower Wheel	900 sq ft	3600 cfm	30.0 gal	115V AC	5-15P	Variable	50 in	29 in	27 in	Portacool	PACJS2301A1	**454G48**
Blower Wheel	1000 to 1400 sq ft	2100/2800 cfm	6.3 gal	120V AC	5-15P	2	32 in	22 in	22 in	Dayton	6RJZ4	**6RJZ4**
Blower Wheel	1000 to 1400 sq ft	2376/3800 cfm	10.4 gal	120V AC	5-15P	2	36 ⅜ in	28 ⅜ in	28 ⅜ in	Dayton	6RJZ3	**6RJZ3**


No. 454G45

Hazardous Location Evaporative Coolers

- 115VAC
- 1 speed

Orange housing color. Sealed switches, cords, motors, and pumps prevent sparking. Rated for Class 1, Division 2 areas where flammable gases, vapors, and liquids are handled or used within enclosed containers or systems, but are not normally present in concentrations high enough to be ignitable. Commonly used in chemical plants, refineries, fuel depots, and garages. They require regularly draining and cleaning the water tank and allowing the media to dry thoroughly between uses to prevent odors and clogging from sludge buildup.

Blade Dia.	Average Coverage Area	Air Flow	Water Cap.	NEMA Plug Configuration	H	W	D	Mfr. Model	Item No.
36 in	3125 sq ft	12,500 cfm	45.0 gal	Hardwired	77 in	63 in	29 in	PACHZ260DAZ	**454G45**
48 in	5625 sq ft	22,500 cfm	65.0 gal	Hardwired	90 in	77 in	35 in	PACHZ270DAZ	**454G46**


No. 5XAR2


No. 43NN86


No. 54ZV17


No. 22D140


No. 54ZV15


No. 454G65


No. 54ZV20


No. 54ZV14


No. 5PWU5


No. 5DPX5

Portable Evaporative & Misting Cooler Accessories & Parts

Find more on Grainger.com® by searching: portacool parts.

Item	For Use With	Includes	Mfr. Model	Item No.
Portacool				
Automatic Pump Shutoff	Portacool Classic™ Series	Wiring Harness with Molex Plug	FLOATSWITCH-KIT	**5XAR2**
Band	Mfr. No. PACHR3701F1	—	BELR0001	**54ZV10**
Caster Kit	Mfr. No. PACHR3601A1	(4) Casters, (2) Locking, (2) Non-Locking, Hardware	PARCSTH360F0	**454G60**
	Mfr. No. PACJS2201A1, PACJS2301A1	—	PARPACCST310	**54ZV17**
	Mfr. No. PACJS2201A1, PACJS2301A1, PACJS2401A1	(4) Casters, (2) Locking, (2) Non-Locking, Hardware	PARPACCST400	**454G57**
Cord Wrap Kit	Portacool Portable Evaporative Coolers	Cord Wrap, Hardware	CORD-WRAP-KIT	**406W78**
Drain Cap	All Portacool® Models	—	PARPACINJS006	**54ZV18**
Fan Assembly, Jetstream 240 Series, For use with PACJS2401A1	—	—	PARFANJ240F0	**43NN86**
Float Assembly	Mfr. No. PAC2K482S, PAC2K363S, PAC2K361S, PAC2K36HPVS, PAC2K24HPVS, PAC2K16HPVS, PAC163SVT, PAC2K163SHD, PACJS1600, 5YMJ3	Float	PARFLTP00001	**22D140**
Hard Water Treatment	Portacool Portable Evaporative Coolers	Four Applications per Box	PARPACHWTB00	**454G69**
Louver Kit	Mfr. No. PACJS2201A1	—	PARLVR000200	**54ZV15**
	Mfr. No. PACJS2301A1	—	PARLVR000300	**54ZV16**
Motor	Mfr. No. PAC2KCYC01	—	PARFANC13000	**454G65**
	Mfr. No. PACHR3601A1	—	PARMTRH3600A	**454G66**
Power Cord	Mfr. No. PAC163SV1A1, PAC163SVT, PACJS1600, PACJS2400, PACJS2401A1, PACJS2501A1, PACJS2601A1	—	PARPCD00220A	**54ZV20**
	Mfr. No. PACHR3701F1	—	PARPCD00010B	**54ZV19**
	Mfr. No. PACJS2701A1, PACHR3601A1	Powercord	PARPCD00110A	**454G70**
Protective Cover	24HP, Mfr. No. PAC2K24HPVS	—	PAC-CVR-24	**10A497**
	48 in Port-A-Cool Models, Mfr. No. PAC2K482S and PAC2K48HZ	—	PAC-CVR-03	**2AAH1**
	Mfr. No. PACCY120GA1, PAC2KCYC03, PACCYC02	Black Vinyl Protective Cover	PAC-CVR-C2	**10A496**
	Mfr. No. PACHR3601A1	—	PARCVRH36000	**54ZV12**
	Mfr. No. PACHR3701F1	Black Vinyl Protective Cover	PARCVRH37000	**49XN03**
	Mfr. No. PACJS2201A1	—	PARCVRJ22000	**54ZV13**
	Mfr. No. PACJS2301A1	—	PARCVRJ23000	**54ZV14**
	Mfr. No. PACJS2401A1	Black Vinyl Protective Cover	PARCVRJ24000	**49XN04**
	Mfr. No. PACJS2501A1	Black Vinyl Protective Cover	PARCVRJ25000	**49XN05**
	Mfr. No. PACJS2601A1	Black Vinyl Protective Cover	PARCVRJ26000	**49XN06**
	Mfr. No. PACJS2701A1	Black Vinyl Protective Cover	PARCVRJ27000	**49XN07**
Psu 25-30 Capacitor	Mfr. No. PAC2KCYC01	Capacitor	CAPACITOR-01	**5PWU5**
Pulley	Mfr. No. PACHR3601A1	—	FAN-ACC-14	**54ZV11**
Pump	Mfr. No. PACCY110GA1, PACCY120GA1, PACCY130GA1	Pump	PARPMPCYC00A	**454G75**
Switch Set	Mfr. No. PAC2K482S, PAC2KCYC01A., PACCYC02, PACCYC03, PAC2CYC04	Control Panel, Hardware	CTRL-2SPD-01	**5PWU8**
WayCool				
Water Conditioner Tablet	Any Evaporative Cooler	(1) Tablet	WC-CTAB	**5DPX5**

BREEZER MOBILE COOLING

Power Breezer® Portable Misting Coolers

- 1 HP, 1750 rpm
- Variable speed
- Oscillating head
- Integrated water tanks
- OSHA-compliant wire guards

Durable cooling fans can reduce heat-related injuries and improve productivity. Models can reduce temperatures by up to 27°F by circulating atomized water vapor without getting users or equipment wet. Can be used outdoors and in partially covered environments. These wheeled coolers have no evaporative pads to change out, but require regularly draining and cleaning the water tank to prevent odors and clogging from sludge buildup.


No. 44ZC63


No. 55MU72


No. 55MU73 Ducting Only

Description	Blade Dia.	Air Flow	Voltage	Water Cap.	H	W	Cord Length	Std.	Mfr. Model	Item No.
Coolers										
Power Breezer®	23 in	1000/14,000 cfm	110V AC	85.0 gal	70 in	29 ½ in	25 ft.	ETL US/CAN	PB10-A-06-B	**44ZC70**
		1000/14,000 cfm	110V AC	85.0 gal	70 in	29 ½ in	25 ft.	ETL US/CAN, Mil-STD-810G	PB10-A-1B	**44ZC71**
		1000/14,000 cfm	220V AC	85.0 gal	70 in	29 ½ in	25 ft.	ETL US/CAN, CE, Mil-STD-810G	PB20-A-1B	**44ZC63**
Power Breezer® Max	23 ¾ in	14,000 cfm	110V AC	80.0 gal	73 ½ in	29 ⅝ in	—	—	PB10-MAX-06-B	**55MU72**

Description	Mfr. Model	Item No.
Ducting		
For Power Breezer models PB10-A-06B, PB10-A-1B, PB10-A-BL PB20-A1B; Includes Reducer, 10 ft. of Ducting	PB600-005-01	**44ZE28**
For Mfr. No. PB10-A-06-B, PB10-MAX-06-B; Includes Mounting Straps	600-070-A	**55MU73**

PORTACOOL WHEN COMFORT COUNTS™ GA GRAINGER APPROVED

Residential/Commercial Evaporative Cooling Media

Replaces pads and panels in residential and commercial evaporative coolers. It's compatible with specific evaporative cooler brands and series for replacing media in portable, window, and ducted coolers. Find more evaporative cooling media on Grainger.com®.


No. 4YC43


No. 4KAY8

H	W	D	Replaces Part No.	Mfr. Model	Item No.
Portacool®, Plant-Based Fiber					
23 in	40 in	8 in	Adobe PM-100	PAD100	**4YC43**
23 in	40 in	12 in	Adobe PM-120	PAD120	**4YC17**
28 in	40 in	8 in	Adobe PM-200	PAD200	**4YC32**
28 in	40 in	12 in	Adobe PM-220	PAD220	**4YC18**
29 ⅛ in	41 ¼ in	8 in	Champion/Essick AUA70 ADA70/ASA70 S1700-S/D	PAD804	**4YC39**
29 ¾ in	40 in	8 in	Phoenix Aerocool 5-4-44	PAD444	**4YC35**
30 ¾ in	36 in	4 in	Champion/Essick PRCN 8600 PRCN 7000 PRCN 6600	PAD401	**4YC22**
36 ⅝ in	44 ¼ in	8 in	Champion/Essick AS/AD 100B	PAD807	**4YC41**
36 ⅝ in	44 ¼ in	12 in	Champion/Essick AS/AD 10012B	PAD123	**4YC15**
44 ½ in	48 in	8 in	Industrial M/C PM-400	PAD400	**4YC19**
44 ½ in	48 in	12 in	Industrial M/C PM-500	PAD500	**4YC20**
46 ⅜ in	48 in	8 in	Champion/Essick AS/AD 150B	PAD808	**4YC42**
46 ⅜ in	48 in	12 in	Champion/Essick AS/AD 15012B	PAD124	**4YC16**
GA, Kraft Paper					
23 in	40 in	8 in	Adobe PM-100	4KAZ5	**4KAZ5**
23 in	40 in	12 in	Adobe PM-120	4KAZ7	**4KAZ7**
28 in	40 in	8 in	Adobe PM-200	4KAZ6	**4KAZ6**
28 in	40 in	12 in	Adobe PM-220	4KAZ8	**4KAZ8**
29 ⅛ in	41 ¼ in	8 in	Champion/Essick AUA70 ADA70/ASA70 S1700-S/D	4KAY9	**4KAY9**
29 ¾ in	40 in	8 in	Phoenix Aerocool 5-4-44	4KCA2	**4KCA2**
30 ¾ in	36 in	4 in	Champion/Essick PRCN 8600 PRCN 7000 PRCN 6600	4KAY8	**4KAY8**
36 ⅝ in	44 ¼ in	8 in	Champion/Essick AS/AD 100B	4KAZ1	**4KAZ1**
44 ½ in	48 in	8 in	Industrial M/C PM-400	4KAZ9	**4KAZ9**
44 ½ in	48 in	12 in	Industrial M/C PM-500	4KCA1	**4KCA1**
46 ⅜ in	48 in	8 in	Champion/Essick AS/AD 150B	4KAZ3	**4KAZ3**
46 ⅜ in	48 in	12 in	Champion/Essick AS/AD 15012B	4KAZ4	**4KAZ4**

H	W	D	Replaces Part No.	For Use With	Mfr. Model	Item No.
Portacool® OEM Replacement Media, Plant-Based Fiber						
20 in	13 in	13 in	Portacool PAC2K24	Mfr. No. PACJS2201A1	PARKULJ22000	**454G53**
20 in	13 in	13 in	Portacool PAC2K24	Mfr. No. PACJS2301A1	PARKULJ23000	**454G54**
24 in	6 in	12 in	Portacool PARKULJ24000	Mfr. No. PACJS2401A1	PARKULJ24000	**49XN09**
36 in	12 in	6 in	Portacool PARKULJ25000	Mfr. No. PACJS2501A1	PARKULJ25000	**49XN10**
48 in	12 in	6 in	Portacool PARKULJ26000	Mfr. No. PACJS260, PAC2K361S, PAC2K363S, PAC2K36HPVS	PARKULJ26000	**49XN11**
60 in	12 in	6 in	Portacool PARKULJ27000	Mfr. No. PACJS2701A1	PARKULJ27000	**49XN12** *
61 in	13 in	19 in	Portacool PARKULH37000	Mfr. No. PACHR3701F1	PARKULH37000	**49XN08**

Package of 6.

PORTACOOL WHEN COMFORT COUNTS™ GA GRAINGER APPROVED

Agriculture/ Horticulture Evaporative Cooling Media

- Kraft paper

Agriculture and horticulture evaporative cooling media provides a long life in harsh environments. These evaporative pads are commonly used in greenhouses, swine and dairy barns, and poultry houses.


No. 4KCC1

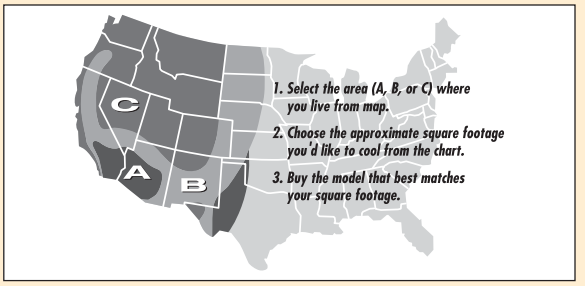

No. 55ZZ38

H	W	D	PORTACOOL® Mfr. Model	PORTACOOL® Item No.	PORTACOOL® Pkg. Qty.	GA Mfr. Model	GA Item No.	GA Pkg. Qty.
36 in	12 in	6 in	KUV061236K00C	**55ZZ33**	5	—	**4KCA9**	5
36 in	12 in	6 in	KUV061236KD1A	**55ZZ34** *	32	—	**4KCC1** *	1
48 in	12 in	4 in	KUV041248MD1A	**55ZZ30** *	24	—	**4KCC6**	5
48 in	12 in	4 in	—	—	—	—	**4KCC7** *	1
48 in	12 in	6 in	KUV061248KD1A	**55ZZ35** *	16	—	**4KCA7**	5
48 in	12 in	6 in	—	—	—	—	**4KCA8** *	1
60 in	12 in	2 in	KUV021260M00E	**55ZZ28**	6	—	**4KCC8**	5
60 in	12 in	2 in	KUV021260MD1A	**55ZZ29** *	48	—	**4KCC9** *	1
60 in	12 in	4 in	KUV041260MD1A	**55ZZ31** *	24	—	**4KCC4**	5
60 in	12 in	4 in	—	—	—	—	**4KCC5** *	1
60 in	12 in	6 in	KUV061260KD1A	**55ZZ37** *	16	—	**4KCA6** *	1
60 in	12 in	6 in	KUV061260K00C	**55ZZ36**	5	—	**4KCA5**	5
72 in	12 in	4 in	KUV041272MD1A	**55ZZ32** *	24	—	**4KCC2**	5
72 in	12 in	6 in	KUV061272K00C	**55ZZ38**	5	—	**4KCA4** *	1
72 in	12 in	6 in	KUV061272KD1A	**55ZZ39** *	16	—	**4KCA3**	5

Black edge coating.

Selecting the Right Size Cooler

Evaporative cooling for residential use is typically limited to lower humidity areas and works best when the dew point is less than 50°F. Coolers are up to 75% more economical than refrigerated air conditioning, making them an ideal source of cooling in western and southwestern regions of the U.S.



Coolers can be used across the U.S. to filter intake air in laundries. They are also excellent in makeup air applications in every state, and they are commonly used in agricultural and greenhouse operations.

Note: Square footages are 8-ft. ceiling heights and are approximations only. Assume an 80°F desired room temp. Since cooling requirements can vary, contact your salesperson if additional information is needed

Ind. Std. Rating*	Item No.	Motor HP	Approximate Square Footage Cooled† A	B	C
6500	4RNP6/4RNP7/2YAE6/2YAE7	1	2200	2400	2600
6500	4RNR1/4RNR2/2YAF1/2YAF2	1	1800	2000	2200
6500	4RNN9/4RNP3/2YAD9/2YAE3	¾	1600	1800	2000
4800	4RNP8/4RNP9/2YAE8/2YAE9	¾	1400	1600	1800
4800	4RNR3/4RNR4/2YAF3/2YAF4	¾	1200	1400	1600
4500	4RNP1/4RNP4/2YAE1/2YAE4	½	1200	1400	1600
5000	4RNN6/2YAD5	½	1100	1300	1500
4500	2YAD6	⅓	1000	1200	1400
4000	4RNN7/2YAD7	⅓	900	1100	1300
3000	4RNP2/4RNP5/2YAE2/2YAE5	⅓	800	1000	1200
3000	4RNN8/2YAD8	⅛	500	600	700

**** Ind. Std. Rating is a numerical rating for comparing similar models and sizing purposes. † Static pressures, vaulted ceiling, heat load, etc., can dramatically reduce the approximate square footage cooled in this chart.***

ESSICK AIR Dayton

Multiple-Inlet Residential Ducted Evaporative Coolers

Distribute cool air throughout a home. Units have multiple inlets to draw in air. Media fits at the inlets to provide a sufficient wet surface area for cooling warm air. Units are typically used to replace multiple-inlet coolers in older installations. No. 453D81 includes a thermostat. Find Residential Ducted Evaporative Cooler Accessories on Grainger.com®.



No. 2YAE5

Average Coverage Area	Air Flow	H	W	D	Brand	Item No.
Drive Package With Motor Not Included						
Down Discharge						
600 to 1100 sq ft	3000 cfm	33 7/16 in	28 ⅛ in	28 ⅛ in	Essick Air	**2YAE2**
700 to 1200 sq ft	4400 to 4900 cfm	34 ½ in	34 ⅛ in	34 ⅛ in	Essick Air	**2YAE1**
1200 to 1600 sq ft	5500 to 6500 cfm	42 7/16 in	39 in	39 in	Essick Air	**2YAD9**
Side Discharge						
500 to 700 sq ft	3000 cfm	33 7/16 in	28 ⅛ in	28 ⅛ in	Essick Air	**2YAE5**
700 to 1200 sq ft	4100 to 4600 cfm	34 ½ in	34 ⅛ in	34 ⅛ in	Essick Air	**2YAE4**
1200 to 1800 sq ft	5500 to 6500 cfm	42 7/16 in	39 in	39 in	Essick Air	**2YAE3**

Average Coverage Area	Air Flow	Pad Thickness	HP	H	W	D	Operating Weight	Brand	1 SPEED 115/230VAC Item No.	1 SPEED 115VAC Item No.	2 SPEED 115VAC Item No.	2 SPEED 120VAC Item No.	2 SPEED 230VAC Item No.
Drive Package With Motor Factory Installed													
Down Discharge													
1000 to 1400 sq ft	3800 cfm	2 in	⅓ hp	28 ¼ in	28 in	28 in	173 lb	Dayton	—	—	—	**4RNP2**	—
1000 to 1400 sq ft	4800 cfm	2 in	½ hp	35 ¼ in	34 in	34 in	249 lb	Dayton	—	—	—	**4RNP1**	—
1400 sq ft	6800 cfm	2 in	¾ hp	42 ¼ in	37 in	37 in	295.4 lb	Dayton	—	—	—	**4RNN9**	—
1800 sq ft	3150 to 3970 cfm	4 in	¾ hp	30 ½ in	41 ¼ in	41 ¼ in	300 lb	Essick Air	—	—	**453D80**	—	—
1800 sq ft	3150 to 3970 cfm	4 in	¾ hp	30 ½ in	41 ¼ in	41 ¼ in	300 lb	Essick Air	—	—	**453D81**	—	—
Side Discharge													
1000 to 1400 sq ft	4800 cfm	2 in	½ hp	35 ¼ in	34 in	34 in	262.4 lb	Dayton	—	—	—	**4RNP4**	—
1400 sq ft	3800 cfm	2 in	⅓ hp	28 ¼ in	28 in	28 in	172 lb	Dayton	—	—	—	**4RNP5**	—
1400 sq ft	6800 cfm	2 in	¾ hp	42 ¼ in	37 in	37 in	326.3 lb	Dayton	—	—	—	**4RNP3**	—
Drive Package With Motor Included, Requires Assembly													
Down Discharge													
600 to 1100 sq. ft.	3000 cfm	2 in	⅓	33 7/16"	28⅛"	28⅛"	175 lb	Essick Air	—	**7AC45**	**7AC44**	—	—
1200 sq. ft.	4400 cfm	2 in	⅓	34½"	34⅛"	34⅛"	233 lb	Essick Air	—	**7AC51**	**7AC50**	—	—
1200 sq. ft.	4900 cfm	2 in	½	34½"	34⅛"	34⅛"	233 lb	Essick Air	**7AC46**	**7AC49**	**7AC48**	—	**7AC47**
1600 sq. ft.	5500 cfm	2 in	½	42 7/16"	39"	39"	309 lb	Essick Air	**7AC52**	—	**7AC57**	—	**7AC56**
1600 sq. ft.	6500 cfm	2 in	¾	42 7/16"	39"	39"	309 lb	Essick Air	—	**7AC55**	**7AC54**	—	**7AC53**
Side Discharge													
700 sq. ft.	3000 cfm	2 in	⅓	33 7/16"	28⅛"	28⅛"	193 lb	Essick Air	—	**7AC30**	**7AC29**	—	—
1200 sq. ft.	4100 cfm	2 in	⅓	34½"	34⅛"	34⅛"	269 lb	Essick Air	—	—	**7AC35**	—	—
1200 sq. ft.	4600 cfm	2 in	½	34½"	34⅛"	34⅛"	269 lb	Essick Air	**7AC31**	**7AC34**	**7AC33**	—	**7AC32**
1800 sq. ft.	5500 cfm	2 in	½	42 7/16"	39"	39"	357 lb	Essick Air	**7AC37**	**7AC43**	**7AC42**	—	**7AC41**
1800 sq. ft.	6500 cfm	2 in	¾	42 7/16"	39"	39"	357 lb	Essick Air	—	**7AC40**	**7AC39**	—	**7AC38**

CHAMPION

No. 5FTT7



Multiple-Inlet Commercial Ducted Evaporative Coolers

- 2" pad thickness

Multiple inlets create high cooling capacity for large buildings. Their slim media fits at the inlets to provide a sufficient wet surface area for cooling warm air drawn into the cooler. Units with drive motor package are 1-speed and include motor, pulley, pump, and float. Find Commercial Ducted Evaporative Cooler Accessories on Grainger.com®.

Average Coverage Area	Air Flow	H	W	D	Item No.
Drive Package With Motor Not Included					
Down Discharge					
2000 to 4000 sq ft	7500 to 8500 cfm	53 ⅝ in	41 ¼ in	41 ¼ in	**5FTT6**
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 ¼ in	62 in	62 in	**5FTT4**
Side Discharge					
2000 to 4000 sq ft	7500 to 8500 cfm	53 ⅝ in	41 ¼ in	41 ¼ in	**5FTT7**
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 ¼ in	62 in	62 in	**5FTT5**

Average Coverage Area	Air Flow	HP	Pump Voltage	H	W	D	Operating Weight	1-PHASE 115/208-230VAC Item No.	3-PHASE 208-230/460VAC Item No.
Drive Package With Motor Included, Requires Assembly									
Down Discharge									
4000 sq. ft.	8500 cfm	1	115	53⅝"	41¼"	41¼"	403 lb	**7K592**	—
4000 sq. ft.	8500 cfm	1	230	53⅝"	41¼"	41¼"	403 lb	**7K593**	—
10,000 sq. ft.	16,000 cfm	2	115	61¼"	62"	62"	940 lb	—	**7K576**
10,000 sq. ft.	16,000 cfm	2	230	61¼"	62"	62"	940 lb	—	**7K577**
10,000 sq. ft.	18,000 cfm	3	115	61¼"	62"	62"	979 lb	—	**7K578**
10,000 sq. ft.	18,000 cfm	3	230	61¼"	62"	62"	979 lb	—	**7K579**
10,000 sq. ft.	21,000 cfm	5	115	61¼"	62"	62"	983 lb	—	**7K580**
10,000 sq. ft.	21,000 cfm	5	230	61¼"	62"	62"	983 lb	—	**7K581**
4000 sq. ft.	7500 cfm	¾	115	53⅝"	41¼"	41¼"	398 lb	**7K588**	**7K590**
4000 sq. ft.	7500 cfm	¾	230	53⅝"	41¼"	41¼"	398 lb	**7K589**	**7K591**
Side Discharge									
4000 sq. ft.	8500 cfm	1	115	53⅝"	41¼"	41¼"	455 lb	**7K598**	—
4000 sq. ft.	8500 cfm	1	230	53⅝"	41¼"	41¼"	455 lb	**7K599**	—
10,000 sq. ft.	16,000 cfm	2	115	61¼"	62"	62"	1044 lb	—	**7K582**
10,000 sq. ft.	16,000 cfm	2	230	61¼"	62"	62"	1044 lb	—	**7K583**
10,000 sq. ft.	18,000 cfm	3	115	61¼"	62"	62"	1083 lb	—	**7K584**
10,000 sq. ft.	18,000 cfm	3	230	61¼"	62"	62"	1083 lb	—	**7K585**
10,000 sq. ft.	21,000 cfm	5	115	61¼"	62"	62"	1087 lb	—	**7K586**
10,000 sq. ft.	21,000 cfm	5	230	61¼"	62"	62"	1087 lb	—	**7K587**
4000 sq. ft.	7500 cfm	¾	115	53⅝"	41¼"	41¼"	451 lb	**7K594**	**7K596**
4000 sq. ft.	7500 cfm	¾	230	53⅝"	41¼"	41¼"	451 lb	**7K595**	**7K597**

MasterCool Dayton

Single-Inlet Residential Ducted Evaporative Coolers

Hold thicker media than multiple-inlet coolers, which increases contact time with the warm input air for more thorough evaporation. These coolers are used in new installations and as replacements for existing single-inlet coolers. Find Residential Ducted Evaporative Cooler Accessories on Grainger.com®.



No. 2YAE9

Average Coverage Area	Air Flow	Pad Thickness	H	W	D	Brand	Item No.
Drive Package With Motor Not Included							
Down Discharge							
1600 sq ft	4000 to 5000 cfm	8 in	28 in	42 in	45 in	Mastercool	**2YAF3**
1600 sq ft	4000 to 5000 cfm	12 in	28 in	42 in	49 in	Mastercool	**2YAE8**
2200 sq ft	5400 to 7000 cfm	8 in	34 5⁄8 in	42 in	48 in	Mastercool	**2YAF1**
2200 sq ft	5400 to 7000 cfm	12 in	34 5⁄8 in	42 in	52 in	Mastercool	**2YAE6**
Side Discharge							
1600 sq ft	4000 to 5000 cfm	8 in	28 in	42 in	45 in	Mastercool	**2YAF4**
1600 sq ft	4000 to 5000 cfm	12 in	28 in	42 in	49 in	Mastercool	**2YAE9**
2200 sq ft	5400 to 7000 cfm	8 in	34 5⁄8 in	42 in	48 in	Mastercool	**2YAF2**
2200 sq ft	5400 to 7000 cfm	12 in	34 5⁄8 in	42 in	52 in	Mastercool	**2YAE7**

Average Coverage Area	Air Flow	Pad Thickness	HP	H	W	D	Operating Weight	Brand	1 SPEED 115/230VAC Item No.	1 SPEED 115VAC Item No.	2 SPEED 115VAC Item No.	2 SPEED 120VAC Item No.	2 SPEED 230VAC Item No.
Drive Package With Motor Factory Installed													
Down Discharge													
1000 to 1400 sq ft	4800 cfm	12 in	¾ hp	27 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP8**	—
1400 sq ft	6800 cfm	8 in	1 hp	32 ¼ in	42 in	43 in	260.1 lb	Dayton	—	—	—	**4RNR1**	—
1400 sq ft	6800 cfm	12 in	1 hp	32 ¼ in	42 in	47 in	299.3 lb	Dayton	—	—	—	**4RNP6**	—
1800 sq ft	5000 cfm	8 in	¾ hp	28 in	42 in	45 in	233 lb	Mastercool	—	—	**19R761**	—	—
1800 sq ft	5000 cfm	12 in	¾ hp	28 in	42 in	49 in	263 lb	Mastercool	—	—	**19R760**	—	—
2300 sq ft	7000 cfm	8 in	1 hp	34 5⁄8 in	42 in	48 in	269 lb	Mastercool	—	—	**19R758**	—	—
2300 sq ft	7000 cfm	12 in	1 hp	34 5⁄8 in	42 in	52 in	306 lb	Mastercool	—	—	**19R759**	—	—
Side Discharge													
1000 to 1400 sq ft	4800 cfm	12 in	¾ hp	27 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP9**	—
1400 sq ft	6800 cfm	8 in	1 hp	32 ¼ in	42 in	43 in	260.1 lb	Dayton	—	—	—	**4RNR2**	—
1400 sq ft	6800 cfm	12 in	1 hp	32 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP7**	—
1800 sq ft	5000 cfm	8 in	¾ hp	28 in	42 in	45 in	233 lb	Mastercool	—	—	**19R765**	—	—
1800 sq ft	5000 cfm	12 in	¾ hp	28 in	42 in	49 in	263 lb	Mastercool	—	—	**19R764**	—	—
2300 sq ft	7000 cfm	8 in	1 hp	34 5⁄8 in	42 in	48 in	269 lb	Mastercool	—	—	**19R763**	—	—
2300 sq ft	7000 cfm	12 in	1 hp	34 5⁄8 in	42 in	52 in	306 lb	Mastercool	—	—	**19R762**	—	—
Drive Package With Motor Included, Requires Assembly													
Down Discharge													
1600 sq. ft.	4000 cfm	8 in	⅓	28"	42"	45"	227 lb	Mastercool	—	**7AA70**	**7AA69**	—	—
1600 sq. ft.	4000 cfm	12 in	⅓	28"	42"	49"	257 lb	Mastercool	—	**7AC08**	**7AC07**	—	—
1600 sq. ft.	4400 cfm	8 in	½	28"	42"	45"	227 lb	Mastercool	**7AA62**	**7AA68**	**7AA67**	—	**7AA66**
1600 sq. ft.	4400 cfm	12 in	½	28"	42"	49"	257 lb	Mastercool	**7AC00**	**7AC06**	**7AC05**	—	**7AC04**
1600 sq. ft.	5000 cfm	8 in	¾	28"	42"	45"	227 lb	Mastercool	—	**7AA65**	**7AA64**	—	**7AA63**
1600 sq. ft.	5000 cfm	12 in	¾	28"	42"	49"	257 lb	Mastercool	—	**7AC03**	**7AC02**	—	**7AC01**
2200 sq. ft.	5400 cfm	8 in	½	34⅝"	42"	48"	263 lb	Mastercool	**7AA81**	**7AA90**	**7AA89**	—	**7AA88**
2200 sq. ft.	5400 cfm	12 in	½	34⅝"	42"	52"	300 lb	Mastercool	**7AC19**	**7AC28**	**7AC27**	—	**7AC26**
2200 sq. ft.	6000 cfm	8 in	¾	34⅝"	42"	48"	263 lb	Mastercool	—	**7AA87**	**7AA86**	—	**7AA85**
2200 sq. ft.	6000 cfm	12 in	¾	34⅝"	42"	52"	300 lb	Mastercool	—	**7AC25**	**7AC24**	—	**7AC23**
2200 sq. ft.	7000 cfm	8 in	1	34⅝"	42"	48"	263 lb	Mastercool	**7AA82**	—	**7AA83**	—	**7AA84**
2200 sq. ft.	7000 cfm	12 in	1	34⅝"	42"	52"	300 lb	Mastercool	**7AC20**	—	**7AC21**	—	**7AC22**
Side Discharge													
1600 sq. ft.	4000 cfm	8 in	⅓	28"	42"	45"	227 lb	Mastercool	—	**7AA61**	**7AA60**	—	—
1600 sq. ft.	4000 cfm	12 in	⅓	28"	42"	49"	257 lb	Mastercool	—	**7AA99**	**7AA98**	—	—
1600 sq. ft.	4400 cfm	12 in	½	28"	42"	49"	257 lb	Mastercool	**7AA91**	**7AA97**	**7AA96**	—	**7AA95**
1600 sq. ft.	4400 cfm	8 in	½	28"	42"	45"	227 lb	Mastercool	**7AA53**	**7AA59**	**7AA58**	—	**7AA57**
1600 sq. ft.	4400 cfm	8 in	¾	28"	42"	45"	227 lb	Mastercool	—	**7AA56**	**7AA55**	—	**7AA54**
1600 sq. ft.	4400 cfm	12 in	¾	28"	42"	49"	257 lb	Mastercool	—	**7AA94**	**7AA93**	—	**7AA92**
2200 sq. ft.	5400 cfm	8 in	½	34⅝"	42"	48"	263 lb	Mastercool	**7AA71**	**7AA80**	**7AA79**	—	**7AA78**
2200 sq. ft.	5400 cfm	12 in	½	34⅝"	42"	52"	300 lb	Mastercool	**7AC09**	**7AC18**	**7AC17**	—	**7AC16**
2200 sq. ft.	6000 cfm	8 in	¾	34⅝"	42"	48"	263 lb	Mastercool	—	**7AA77**	**7AA76**	—	**7AA75**
2200 sq. ft.	6000 cfm	12 in	¾	34⅝"	42"	52"	300 lb	Mastercool	—	**7AC15**	**7AC14**	—	**7AC13**
2200 sq. ft.	7000 cfm	8 in	1	34⅝"	42"	48"	263 lb	Mastercool	**7AA72**	—	**7AA73**	—	**7AA74**
2200 sq. ft.	7000 cfm	12 in	1	34⅝"	42"	52"	300 lb	Mastercool	**7AC10**	—	**7AC11**	—	**7AC12**

ESSICK AIR CHAMPION MasterCool Dayton

Window Evaporative Coolers

- 2" pad thickness

Units pull in warm outdoor air, pass it through wet media to remove heat, and blow out the cooled air. At the end of the cooling season, these coolers can be drained and their media can be dried out for long-term storage. Units require no connection to ductwork, sheet metal cutting, or grille assembly.



No. 49LW87



No. 35LX47

Average Coverage Area	Air Flow	HP	Evaporative Cooler Voltage	Water Cap.	No. of Speeds	H	W	D	Operating Weight	Brand	Mfr. Model	Item No.
Window Evaporative Coolers												
400 to 600 sq ft	2800 cfm	⅛ hp	115V AC	3.6 gal	2	24 in	27 in	17 in	105 lb	Essick Air	N28W	**2YAD8**
600 to 1100 sq ft	4000 cfm	⅛ hp	115V AC	11.0 gal	2	34 ½ in	34 ⅛ in	41 ⅛ in	214 lb	Champion	RWC44	**55ET79**
1000 sq ft	3200 cfm	⅛ hp	115V AC	2.0 gal	3	46 ⅛ in	33 ⅝ in	22 ⅛ in	115.05	Mastercool	MCP44	**39E721**
1000 sq ft	4800 cfm	½ hp	115V AC	15.0 gal	2	35 ¼ in	34 in	43 ½ in	262.4 lb	Dayton	4RNN6	**4RNN6**
1000 to 1400 sq ft	2800 cfm	⅛ hp	120V AC	6.3 gal	2	27 in	22 in	31 in	95.9 lb	Dayton	4RNN8	**4RNN8**
1000 to 1400 sq ft	3800 cfm	⅓ hp	115V AC	10.4 gal	2	28 ¼ in	28 ¼ in	38 3⁄16 in	180.8 lb	Dayton	4RNN7	**4RNN7**
1200 to 1600 sq ft	4700 cfm	½ hp	115V AC	9.3 gal	2	34 ½ in	34 ⅛ in	34 ⅛ in	249 lb	Essick Air	RN50W	**2YAD5**
1400 sq ft	4200 cfm	⅓ hp	115V AC	13.5 gal	2	34 ½ in	34 ⅛ in	34 ⅛ in	246 lb	Essick Air	RN46W	**54XH55**
2000 sq ft	4000 cfm	½ hp	115V AC	2.0 gal	3	46 ⅛ in	33 ⅝ in	22 ⅛ in	100 lb	Mastercool	MCP59	**49LW87**

Item	For Use With	Includes	Item No.
Accessories			
Grille Cover	Mfr. No. MCP44, MCP44E, WPL44, WPL44NP, MCP59	—	**35LX49**
Protective Cover		—	**35LX48**
Purge Pump Kit		Pump, Pump Bracket, Hose Kit, Screw or Mount Bracket, Instruction Sheet	**35LX47**


No. 458J84


No. 458K09


No. 458K22

Manitowoc

Commercial Ice Machines, Bins, and Dispensers

- Gourmet: hard, clear, 8-sided 1⅜" cubes
- Dice: hard, clear, rhomboid ⅞" cube; 48 cubes/lb.
- Half-dice: hard, clear, rhomboid cube, ⅜" x 1⅛" x ⅞"; 96 cubes/lb.
- Nugget: soft, chewable 3/10" x 3/10" x ½" cubes dispense without hand scooping; slow to melt, less drink dilution


No. 458K32

Stainless finish with clear coating provides superior corrosion resistance and resists fingerprints and dirt. Nos. 458J99 to 458K74 are ENERGY STAR qualified. Repair parts are available on Grainger.com®.

Ice Makers, Built-In Undercounter—Compact machines for small-volume ice production.

No. 458J81 is designed for boardrooms, conference rooms, or business lunch areas. Built-in or freestanding capability. Features multifunction control panel with delay, integral filtration, and oversize, lighted bin opening.

Other models are sized for coffee shops, stadium boxes, break areas, or areas with limited floor space or height.

Ice Makers, Modular Heads, High Capacity—Ideal for movie theaters and other high-volume applications. Programmable ice production with continuous diagnostics keep ice stocked and machine operational. 24-hr. maintenance and diagnostic feedback on easy-read, blue display. Food zone is easy to clean.

- On/Off time or ice volume programs
- Fit on top of Ice Storage Bins (sold separately)

Stationary Ice Storage Bins—Convenient stay-open design keeps bin door out of the way. Soft trim around opening helps silence door closing. Internal scoop holder is above ice line for easy access and better sanitation. No. 458K75 requires 1 ice deflector kit, sold separately on Grainger.com®.

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Maker, Built-In Undercounter, Office Use									
53 lb.	25 lb.	Gourmet	Air	115V	33½"	14¾"	22¾"	SM50A-161	**458J81**
Ice Makers, Built-In Undercounter									
60 lb.	30 lb.	Dice	Air	115V	36"	19 11/16"	22 1/32"	UDE0065A-161	**458J82**
95 lb.	30 lb.	Dice	Air	115V	36"	19 11/16"	22 1/32"	UDE0080A-161	**458J83**
132 lb.	90 lb.	Dice	Air	115V	38½"	26"	28"	UDF0140A-161	**458J84**
	90 lb.	Half Dice	Air	115V	38½"	26"	28"	UYF0140A-161	**458J85**
198 lb.	90 lb.	Dice	Air	115V	38½"	26"	28"	UDF0190A-161	**458J86**
	90 lb.	Half Dice	Air	115V	38½"	26"	28"	UYF0190A-161	**458J87**
225 lb.	80 lb.	Dice	Air	115V	38 39/64"	26"	28"	UDF0240A-161	**458J88**
	80 lb.	Dice	Water	115V	38 49/64"	26"	28"	UDF0240W-161	**458J89**
	80 lb.	Half Dice	Air	115V	38 13/16"	26"	28"	UYF0240A-161	**458J90**
	80 lb.	Half Dice	Water	115V	38½"	26"	28"	UYF0240W-161	**458J91**
304 lb.	100 lb.	Dice	Air	115V	38½"	30"	28"	UDF0310A-161	**458J92**
	100 lb.	Dice	Water	115V	38½"	30"	28"	UDF0310W-161	**458J93**
	100 lb.	Half Dice	Air	115V	38½"	30"	28"	UYF0310A-161	**458J94**
	100 lb.	Half Dice	Water	115V	38½"	30"	28"	UYF0310W-161	**458J95**
Ice Makers, Modular Heads, High Capacity									
310 lb.	—	Dice	Air	115V	16½"	30"	24½"	IDF0300A-161	**458J96**
	—	Dice	Water	115V	16½"	30"	24½"	IDF0300W-161	**458J97**
	—	Half Dice	Air	115V	16½"	30"	24½"	IYF0300A-161	**458J98**
	—	Half Dice	Water	115V	16½"	30"	24½"	IYF0300W-161	**458J99**
430 lb.	—	Dice	Water	115V	21½"	30"	24"	IDT0450W-161	**458K10**
454 lb.	—	Dice	Water	115V	21½"	22"	24½"	IDT0420W-161	**458K02**
460 lb.	—	Half Dice	Air	115V	21½"	22"	24½"	IYT0420A-161	**458K03**
470 lb.	—	Dice	Air	115V	21½"	22"	24½"	IDT0420A-161	**458K01**
	—	Dice	Air	115V	21½"	30"	24"	IDT0450A-161	**458K09**
	—	Half Dice	Water	115V	21½"	30"	24"	IYT0450W-161	**458K12**
490 lb.	—	Half Dice	Air	115V	21½"	30"	24"	IYT0450A-161	**458K11**
	—	Half Dice	Water	115V	21½"	22"	24½"	IYT0420W-161	**458K04**
530 lb.	—	Dice	Water	115V	21½"	22"	24½"	IDT0620W-161	**458K06**
560 lb.	—	Dice	Air	115V	21½"	22"	24½"	IDT0620A-161	**458K05**
	—	Half Dice	Water	115V	21½"	22"	24½"	IYT0620W-161	**458K08**
575 lb.	—	Half Dice	Air	115V	21½"	22"	24½"	IYT0620A-161	**458K07**
632 lb.	—	Dice	Air	208/230V	21½"	30"	24½"	IDT0750A-261	**458K13**
635 lb.	—	Half Dice	Air	208/230V	21½"	30"	24½"	IYT0750A-261	**458K15**
661 lb.	—	Dice	Water	208/230V	21½"	30"	24½"	IDT0750W-261	**458K14**
700 lb.	—	Half Dice	Water	208/230V	21½"	30"	24½"	IYT0750W-261	**458K16**
839 lb.	—	Dice	Water	208/230V	26½"	30"	24½"	IDT0900W-261	**458K18**
874 lb.	—	Dice	Air	208/230V	26½"	30"	24½"	IDT0900A-261	**458K17**
879 lb.	—	Half Dice	Water	208/230V	26½"	30"	24½"	IYT0900W-261	**458K20**
901 lb.	—	Half Dice	Air	208/230V	26½"	30"	24½"	IYT0900A-261	**458K19**
1800 lb.	—	Dice	Air	208/230V	29½"	48"	24"	IDT1500A-261	**458K67**
	—	Half Dice	Air	208/230V	29½"	48"	24"	IYT1500A-261	**458K69**
1870 lb.	—	Dice	Water	208/230V	29½"	48"	24"	IDT1900W-261	**458K72**
1900 lb.	—	Dice	Air	208/230V	29½"	48"	24"	IDT1900A-261	**458K71**
	—	Half Dice	Air	208/230V	29½"	48"	24"	IYT1900A-261	**458K73**
1930 lb.	—	Half Dice	Water	208/230V	29½"	48"	24"	IYT1900W-261	**458K74**
Ice Dispenser, Ice Maker, Water Dispenser, Countertop									
261 lb.	10 lb.	Nugget	Air	115V	35"	16¼"	24"	CNF0201A-161L	**458K21**
	20 lb.	Nugget	Air	115V	42"	16¼"	24"	CNF0202A-161L	**458K23**
Ice Dispenser, Ice Maker, Water Dispenser, Countertop, Touchless									
261 lb.	10 lb.	Nugget	Air	115V	35"	16¼"	24"	CNF0201A-161	**458K22**
	20 lb.	Nugget	Air	115V	42"	16¼"	24"	CNF0202A-161	**458K24**
Ice Dispenser, Floor-Standing									
—	120 lb.	Dice/ Half Dice	—	115V	54"	22"	31 3/16"	SPA160-161	**458K27**
	180 lb.	Dice/ Half Dice	—	115V	60½"	30"	32"	SPA310-161	**458K28**
Ice Dispenser, Water Dispenser, Floor-Standing									
—	120 lb.	Dice/ Half Dice	—	115V	54"	22"	31 3/16"	SFA191-161	**458K25**
	180 lb.	Dice/ Half Dice	—	115V	60½"	30"	32"	SFA291-161	**458K26**
Stationary Ice Storage Bins (Includes Ice Scoop, Legs)									
—	264 lb.	—	—	—	38"	22"	34"	D320	**458K29**
	365 lb.	—	—	—	38"	30"	34"	D400	**458K30**
	383 lb.	—	—	—	50"	22"	34"	D420	**458K31**
	532 lb.	—	—	—	50"	30"	34"	D570	**458K32**
	882 lb.	—	—	—	50"	48"	34"	D970	**458K33**
	970 lb.	—	—	—	63½"	48"	31"	F-1300	**458K75**

Description	Microns	Flow Rate	Service Life	Cartridges Req.	Overall Height	Overall Width	Mfr. Model	Item No.
Ice Machine Filter Systems								
For Systems 600 lbs. and Under	1	0.75 gpm	14,000 gal.	Mfr. No. K-00338	17"	5¾"	AR-10000	**10L488**
For Systems 850 lbs. thru 1000 lbs.	1	0.75 gpm	20,000 gal.	No. Modelo K-00339	21.34"	5¾"	AR-20000	**10L489**
Ice Machine Replacement Filter Cartridges								
Filter Cartridge For Use With Mfr. No. SM-50A	1	0.75 gpm	20,000 gal.	—	13"	3"	K-00374	**10L491**
Filter Cartridge For Use With Mfr. No. AR-10000	1	—	14,000 gal.	—	15¼"	6"	K-00338	**10L493**
Filter Cartridge For Use With Mfr. No. AR-20000, AR-40000	1	1.5 gpm	20,000 gal.	—	21 21/64"	6"	K-00339	**10L494**


No. 497A66

Residential/Commercial Ice Machines

MARVEL

Eco Ice™ models can save you up to 25% electricity and water usage compared to other machines. Illuminice™ units project white LED light through the clear ice for a brilliant lighting effect, and feature audible alerts and programmed cleaning reminders. All models require no pump or drain, except Nos. 497A67 and 497A68 can use optional pump No. 19M475.

Description	Ice Production per Day	Ice Storage Cap.	Cube Type	Color	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Countertop, Compact	25 lb.	12 lb.	Crescent	Stainless Steel/Black	24"	14"	19"	MA14CRSCXS	**497A66**
Undercounter, Low Profile, Eco Ice™ Mode, Illuminice™ LED Lighting	35 lb.	35 lb.	Square		30"	14⅞"	25½"	MA15CLS2RS	**497A67**
Undercounter, Eco Ice™ Mode, Illuminice™ LED Lighting	35 lb.	35 lb.	Square		33¾"	14⅞"	25½"	ML15CLS2RS	**497A68**
Undercounter	25 lb.	25 lb.	Crescent		33"	14⅞"	22⅝"	ML15CRS1XS	**497A69**
Undercounter, ADA Height, Low Profile	25 lb.	25 lb.	Crescent		33"	14⅞"	22⅝"	MA15CRS1XS	**497A70**
Condensate Pump, 115V, Optional For Use with Nos. 497A67 & 497A68								42248890	**19M475**

Scotsman Ice Systems

Find Ice Scoops, Ice Buckets, and Ice Totes on Grainger.com®.

Commercial Ice Machines, Bins, and Dispensers

- **Gourmet cube: hard, clear, 1" x 1⅛" x 1¼"**
- **Small cube: hard, clear, rhomboid, ⅞" x ⅞" x ⅜"**
- **Medium cube: hard, clear, rhomboid, ⅞" x ⅞" x ⅞"**

Stainless finish provides corrosion resistance and allows for easier cleaning. For repair parts, go to Grainger.com®.

Note: ENERGY STAR qualified where noted.

Ice Makers, Built-In Undercounter—Compact units are designed for low volume, built-in applications. Nos. 36N972, 36N973, and 36N959 are designed for small office and board room applications. No. 36N973 includes an integrated condensate pump. The other undercounter models are designed for low volume applications as in coffee shops or larger break rooms.

Ice Makers, Modular Heads, High-Capacity—AutoAlert™ indicator lights for advanced diagnostics. Fits on top of ice storage bins, sold separately.

Ice Dispenser, Ice Maker, Water Dispenser, Countertop, Touchless—Touchfree ice and water dispensing makes these units perfect for healthcare and office applications. Equipment stands available for all models, sold separately on Grainger.com®.

Ice Dispensers, Hotel, Floor-Standing—Simple push-to-dispense design and large sink depth accommodate almost any size ice bucket. Ideal for lodging and healthcare segments. Automatic fill from ice machine, sold separately.

Stationary Ice Storage Bins—Feature integrated scoop holder and removable ice baffle for easy cleaning. Nos. 36N920 and 36N921 are polyethylene construction. Bin adapter kits are sold separately on Grainger.com®.

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Makers, Built-In Undercounter, Small Application Use									
65 lb.	26 lb.	Gourmet	Air	115V	34⅜"	14⅞"	22"	CU50GA-1	**36N972** *
	26 lb.	Gourmet	Air	115V	34⅜"	14⅞"	22"	CU50PA-1	**36N973** *
84 lb.	24 lb.	Gourmet	Air	115V	29"	15"	23⅝"	CU0515GA-1	**36N959**
Ice Makers, Built-In Self-Contained, Small Application Use									
58 lb.	36 lb.	Medium	Air	115V	38"	15"	24"	CU0415MA-1	**20CA59**
80 lb.	36 lb.	Medium	Air	115V	38"	15"	24"	CU0715MA-1	**20CA61**
100 lb.	57 lb.	Medium	Air	115V	38"	20"	24"	CU0920MA-1	**20CA63**
Ice Makers, Built-In Undercounter									
150 lb.	80 lb.	Medium	Air	115V	33"	26"	27⅜"	CU1526MA-1	**36N960** *
	80 lb.	Small	Air	115V	33"	26"	27⅜"	CU1526SA-1	**36N962** *
175 lb.	80 lb.	Small	Water	115V	33"	26"	27⅜"	CU1526SW-1	**36N963**
200 lb.	80 lb.	Medium	Air	115V	33"	26"	27⅜"	CU2026MA-1	**36N964** *
	80 lb.	Small	Air	115V	33"	26"	27⅜"	CU2026SA-1	**36N966** *
240 lb.	80 lb.	Small	Water	115V	33"	26"	27⅜"	CU2026SW-1	**36N967**
250 lb.	110 lb.	Medium	Air	115V	33"	30"	30"	CU3030MA-1	**36N968**
	110 lb.	Small	Air	115V	33"	30"	30"	CU3030SA-1	**36N970**
310 lb.	26 lb.	Small	Water	115V	33"	30"	30"	CU3030SW-1	**36N971**
Ice Makers, Modular Heads, High-Capacity									
356 lb.	—	Medium	Air	115V	23"	22"	24"	C0322MA-1	**36N931**
	—	Small	Air	115V	23"	22"	24"	C0322SA-1	**36N933**
366 lb.	—	Small	Water	115V	23"	22"	24"	C0322SW-1	**36N934**
400 lb.	—	Medium	Air	115V	23"	30"	24"	C0330MA-1	**36N935**
	—	Small	Air	115V	23"	30"	24"	C0330SA-1	**36N937**
420 lb.	—	Medium	Water	115V	23"	30"	24"	C0330MW-1	**36N936**
	—	Small	Water	115V	23"	30"	24"	C0330SW-1	**36N938**
475 lb.	—	Medium	Air	115V	23"	22"	24"	C0522MA-1	**36N939**
	—	Small	Air	115V	23"	22"	24"	C0522SA-1	**36N941**
500 lb.	—	Small	Water	115V	23"	30"	24"	C0530SW-1	**36N946**
525 lb.	—	Medium	Air	115V	23"	30"	24"	C0530MA-1	**36N943**
	—	Small	Air	115V	23"	30"	24"	C0530SA-1	**36N945**
549 lb.	—	Medium	Water	115V	23"	22"	24"	C0522MW-1	**36N940**
	—	Small	Water	115V	23"	22"	24"	C0522SW-1	**36N942**
722 lb.	—	Small	Water	208/230V	23"	30"	24"	C0630SW-32	**36N950**
776 lb.	—	Medium	Air	208/230V	23"	30"	24"	C0630MA-32	**36N947**
	—	Small	Air	208/230V	23"	30"	24"	C0630SA-32	**36N949**
905 lb.	—	Medium	Air	208/230V	29"	30"	24"	C0830MA-32	**36N951**
	—	Small	Air	208/230V	29"	30"	24"	C0830SA-32	**36N953**
924 lb.	—	Small	Water	208/230V	29"	30"	24"	C0830SW-32	**36N954**
Ice Dispenser, Ice Maker, Water Dispenser, Countertop, Touchless									
523 lb.	26 lb.	Nugget	Air	115V	41"	26"	23"	HID525A-1	**36N990**
	40 lb.	Nugget	Air	115V	41"	26"	23"	HID540A-1	**36N992**
525 lb.	26 lb.	Nugget	Water	115V	41"	26"	23"	HID525W-1	**36N991**
	40 lb.	Nugget	Water	115V	41"	26"	23"	HID540W-1	**36N993**
Ice Dispensers, Hotel, Floor-Standing									
—	120 lb.	—	—	115V	53"	22"	33"	HD22B-1	**36N985**
	180 lb.	—	—	115V	53"	30"	33"	HD30B-1	**36N986**
Stationary Ice Storage Bins (Includes Ice Scoop, Legs)									
—	370 lb.	—	—	—	50"	22"	34"	B322S	**36N919**
	344 lb.	—	—	—	37"	30"	34"	B330P	**36N920**
	536 lb.	—	—	—	50"	30"	34"	B530P	**36N921**
	536 lb.	—	—	—	50"	30"	34"	B530S	**36N922**
	778 lb.	—	—	—	50"	42"	34"	B842S	**36N923**
	893 lb.	—	—	—	50"	48"	34"	B948S	**36N924**

Description	Microns	Flow Rate	Service Life	Cartridges Req.	Overall Height	Overall Width	Mfr. Model	Item No.
Ice Machine Water Filters, SSM Plus								
Single System	0.5	1.67 gpm	9000 gal.	Mfr. No. SSM1-P, SSM1P, SSM1 P, SCT-SSM1P	30½"	5 19/32"	SSM1-P	**36P053**
Twin System	0.5	3.34 gpm	18,000 gal.	—	29¼"	16 19/32"	SSM2-P	**36P054**
Ice Machine Water Filters, AquaPatrol™								
Single System	10	2.1 gpm	9000 gal.	Mfr. No. ADS-AP1, ADSAP1, ADS AP1, SCT-ADSAP1, SCTADSAP1, SCT ADSAP1	25¼"	5 19/32"	AP1-P	**36P006**
Twin System	10	4.2 gpm	18,000 gal.	Mfr. No. SCTADSAP2, ADS-AP2, ADSAP2, SCT ADSAP2, ADS AP2, SCT-ADSAP2	25¼"	16 19/32"	AP2-P	**36P007**
Ice Machine Replacement Cartridges								
SSM Plus	0.5	1.67 gpm	9000 gal.	—	—	—	EV961227	**36P056**
AquaPatrol™, Pkg. of 6	5	2.0 gpm	15,000 gal.	—	—	—	APRC1-P	**36P009**
AquaBullet® Anti Microbial Wand				—	—	—	ADS-AB6	**36P005**

Description	Mfr. Model	Item No.
Accessories		
Ice Level Control Kit, For Use With Icemakers	KVS	**36P046**
Bin Top Kit, For Use With All 30" Modular Cubers	KBT29	**36P023**
Bin Top Kit, For Use With Mfr. No. CME256, CME506, CME656, CME806, CME1056, BH900	KBT22A	**36P018**
Ice Machine Stand Kit, For Use With Mfr. No. HID525, HID540	HST21-A	**36P011**
Ice Machine Cleaner, For Use With Scotsman Ice Makers, Pkg. of	19-0653-12	**38Y226**

**** ENERGY STAR qualified.***



No. 36N972



No. 36N962



No. 36N990



No. 36N986

Scan. Order. Done.
Details on page A1.


No. 31XC32


No. 31XC34


No. 31XC25


No. 31XC15

Commercial Ice Machines, Bins, and Dispensers

- Top Hat: for small business or residential use, ⅞" x 1"
- Cubelet: soft, chewable, ideal for healthcare or food service, ⅝" x ½" x ⅜"
- Crescent: hard, clear, 1⅛" x 1½" x ½"
- Flake: for therapeutic use in hospitals
- Square: for gourmet beverages, 1" x 1" x 1"

Ice machines have a stainless steel finish to resist corrosion and to ease cleaning. ENERGY STAR qualified where noted. Repair parts are available on Grainger.com®.

Ice Makers, Undercounter—Compact units for lower volume ice output. Nos. 31XC32, 31XC33, 31XC85, and 31XC86 are ideal for residential use. Models can be freestanding or built-in, and have a field-reversible door. Compatible with optional Drain Pump No. 31XD01, for use where a floor drain is not accessible. Other models are sized for coffee shops, small businesses or restaurants.

Ice Makers, Modular Heads, High Capacity—No. 31XC76 produces a full square cube with minuscule dimple; cubes melt slowly making them ideal for gourmet beverages. All machine heads are for use with storage bins, sold separately.

Ice Dispenser, Ice Maker, Water Dispenser, Countertop—Feature the CleanCycle 12® system that purges the dispenser of impurities every 12 hr. Reliable resin-based gear motor for long life.

Ice Dispenser—Floor standing units have simple push-button dispensing.

Ice Dispenser, Water Dispenser—Countertop unit has an innovative auger agitator design that dispenses individual cubes, and model can dispense water.

Stationary Ice Storage Bins—Feature H-Guard Plus antimicrobial and a removable baffle to ease cleaning. Nos. 31XC23 and 31XC24 feature a universal top kit.

Description	Microns	Flow Rate	Svc. Life (gal.)	Cartridges Req.	H (in.)	Dia. (in.)	Mfr. Model	Item No.
Ice Machine Water Filters								
Ice Machine Filter System	0.5	1.67 gpm	21,000	1	18 13/32	3¼	H9320-51	**31XC09**
Ice Machine Filter System	0.5	3.34 gpm	42,000	2	19 7/64	6½	H9320-52	**31XC10**
Replacement Filter, For Use With Mfr. No. H9320-51, H9320-52	0.5	1.67 gpm	21,000	—	13¼	3¼	H9655-11	**31XC11**

Description	Mfr. Model	Item No.
Accessories		
Ice Machine Stand, For Use With Mfr. No. DCM-270BAH	SD-270	**31XC97**
Ice Machine Stand, For Use With Mfr. No. DCM-500BAH, DCM-500BWH	SD-500	**31XC98**

Find Ice Scoops, Ice Buckets, and Ice Totes on Grainger.com®.

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Makers, Undercounter, w/ Built-In Storage Bin, Office Use									
55 lb.	22 lb.	Top Hat	Air	115V	33½"	14⅞"	22⅝"	AM-50BAJ	**31XC32**
	22 lb.	Top Hat	Air	115V	31½"	14⅞"	22⅝"	AM-50BAJ-AD	**31XC33**
92 lb.	22 lb.	Cubelet	Air	115V	33½"	14⅞"	22⅝"	C-80BAJ	**31XC85***
	22 lb.	Cubelet	Air	115V	31½"	14⅞"	22⅝"	C-80BAJ-AD	**31XC86***
Ice Makers, Undercounter, w/ Built-In Storage Bin									
71 lb.	38 lb.	Crescent	Air	115V	39"	17¾"	24"	KM-80BAJ	**31XC34***
115 lb.	53 lb.	Crescent	Air	115V	39"	23¾"	24"	KM-115BAJ	**31XC35***
146 lb.	78 lb.	Crescent	Air	115V	39"	23¾"	28"	KM-160BAJ	**31XC36***
	78 lb.	Crescent	Water	115V	39"	23¾"	28"	KM-161BWJ	**31XC37**
201 lb.	80 lb.	Crescent	Air	115V	39"	24"	28"	KM-231BAJ	**31XC38***
263 lb.	100 lb.	Crescent	Air	115V	39"	30"	28"	KM-301BAJ	**31XC40**
268 lb.	100 lb.	Crescent	Water	115V	39"	30"	28"	KM-300BWJ	**31XC41**
303 lb.	110 lb.	Flake	Air	115V	39"	36"	24"	F-300BAJ	**31XC78***
320 lb.	80 lb.	Cubelet	Air	115V	39"	24"	26"	F-330BAJ-C	**31XC87***
330 lb.	80 lb.	Flake	Air	115V	39"	24"	26"	F-330BAJ	**31XC77***
500 lb.	250 lb.	Flake	Air	115V	42"	38"	29"	F-500BAJ	**31XC79***
Ice Makers, Modular Heads, High Capacity, For Use With Storage Bins									
307 lb.	—	Crescent	Air	115V	22"	30"	27⅜"	KML-325MAJ	**31XC42**
314 lb.	—	Crescent	Water	115V	22"	30"	27⅜"	KML-325MWJ	**31XC43**
325 lb.	—	Crescent	Air	115V	30 5/16"	22"	27⅜"	KM-340MAJ	**31XC44**
352 lb.	—	Crescent	Water	115V	30 5/16"	22"	27⅜"	KM-340MWJ	**31XC45**
401 lb.	—	Crescent	Air	115V	22"	30"	27⅜"	KML-500MAJ	**31XC50***
429 lb.	—	Crescent	Water	115V	22"	30"	27⅜"	KML-500MWJ	**31XC51**
431 lb.	—	Cubelet	Air	115V	21⅞"	22"	27⅜"	F-450MAJ-C	**31XC88**
493 lb.	—	Flake	Air	115V	21⅞"	22"	27⅜"	F-450MAJ	**31XC80**
500 lb.	—	Crescent	Air	115V	30 5/16"	22"	27⅜"	KM-520MAJ	**31XC52**
	—	Crescent	Water	115V	30 5/16"	22"	27⅜"	KM-515MWJ	**31XC53**
	—	Large Square	Air	115V	21¾"	44"	27⅝"	IM-500SAA	**31XC76***
575 lb.	—	Crescent	Air	115V	26"	30"	27⅜"	KML-700MAJ	**31XC54**
627 lb.	—	Cubelet	Water	115/120V	25 15/16"	22"	27⅜"	F-801MWJ-C	**31XC90**
632 lb.	—	Crescent	Water	208/230V	26"	30"	27⅜"	KML-700MWJ	**31XC55**
661 lb.	—	Crescent	Water	208/230V	37 1/16"	22"	27⅜"	KM-650MWJ	**31XC57**
663 lb.	—	Flake	Water	115/120V	25 15/16"	22"	27⅜"	F-801MWJ	**31XC82**
728 lb.	—	Cubelet	Air	115/120V	25 15/16"	22"	27⅜"	F-801MAJ-C	**31XC89**
790 lb.	—	Cubelet	Water	115V	25 15/16"	22"	27⅜"	F-1002MWJ-C	**31XC92**
795 lb.	—	Flake	Air	115/120V	25 15/16"	22"	27⅜"	F-801MAJ	**31XC81***
860 lb.	—	Cubelet	Air	208/230V	25 15/16"	22"	27⅜"	F-1002MAJ-C	**31XC91**
874 lb.	—	Crescent	Air	208/230V	37 1/16"	30"	27⅜"	KM-901MAJ	**31XC60**
890 lb.	—	Flake	Water	208/230V	25 15/16"	22"	27⅜"	F-1002MWJ	**31XC84**
912 lb.	—	Crescent	Water	208/230V	37 1/16"	30"	27⅜"	KM-901MWJ	**31XC61**
970 lb.	—	Flake	Air	208/230V	25 15/16"	22"	27⅜"	F-1002MAJ	**31XC83***
1318 lb.	—	Crescent	Water	208/230V	27⅜"	48"	27⅜"	KM-1301SWJ	**31XC63**
1325 lb.	—	Crescent	Air	208/230V	41½"	30"	27⅜"	KM-1340MAJ	**31XC64**
1329 lb.	—	Crescent	Air	208/230V	27⅜"	48"	27⅜"	KM-1301SAJ	**31XC62**
1382 lb.	—	Crescent	Water	208/230V	41½"	30"	27⅜"	KM-1340MWJ	**31XC65**
1462 lb.	—	Crescent	Air	208/230V	27⅜"	48"	27⅜"	KM-1601SAJ	**31XC66**
1492 lb.	—	Crescent	Water	208/230V	27⅜"	48"	27⅜"	KM-1601SWJ	**31XC68**
1825 lb.	—	Crescent	Water	208/230V	36 7/16"	48"	27⅜"	KM-1900SWJ3	**31XC73**
1859 lb.	—	Crescent	Air	208/230V	36 7/16"	48"	27⅜"	KM-1900SAJ3	**31XC71***
2096 lb.	—	Crescent	Water	208/230V	36 7/16"	48"	27⅜"	KM-2200SWJ3	**31XC74**
2408 lb.	—	Crescent	Water	208/230V	36 7/16"	48"	27⅜"	KM-2600SWJ3	**31XC75**
Ice Dispenser, Ice Maker, Water Dispenser, Countertop, w/ Built-In Storage									
288 lb.	9 lb.	Cubelet	Air	115V	31 11/16"	16 9/16"	24⅛"	DCM-270BAH	**31XC25**
321 lb.	40 lb.	Cubelet	Air	115V	40"	26"	22½"	DCM-300BAH	**31XC26**
567 lb.	40 lb.	Cubelet	Water	115V	40"	26"	22½"	DCM-500BWH	**31XC28**
618 lb.	40 lb.	Cubelet	Air	115V	40"	26"	22½"	DCM-500BAH	**31XC27**
Ice Dispenser, For Use With KM or KML Series Heads									
—	130 lb.	—	—	115V	53"	22"	30"	DB-130H	**31XC29**
	200 lb.	—	—	115V	53"	30"	30"	DB-200H	**31XC30**
Ice Dispenser, Water Dispenser, Countertop, For Use With KM or KML Series Heads									
—	200 lb.	—	—	115 to 120V	36⅜"	30"	28"	DM-200B	**31XC31**
Stationary Ice Storage Bins, Stainless Steel, For Use With KM, KML, IM & F Series Heads (Includes Ice Scoop, Legs)									
—	260 lb.	—	—	—	46"	22"	32½"	B-300SF	**31XC13**
	360 lb.	—	—	—	46"	30"	33½"	B-500SF	**31XC15**
	550 lb.	—	—	—	46"	44"	33½"	B-700SF	**31XC17**
	600 lb.	—	—	—	46"	48"	33½"	B-800SF	**31XC19**
	660 lb.	—	—	—	46"	52"	33½"	B-900SF	**31XC21**
	1275 lb.	—	—	—	66"	48"	41"	B-1300SS	**31XC23**
	1605 lb.	—	—	—	66"	60"	41"	B-1650SS	**31XC24**
Stationary Ice Storage Bins, PVC Coated Galvanized Steel, For Use With KM or KML Series Heads (Includes Ice Scoop, Legs)									
—	230 lb.	—	—	—	33⅜"	30"	33½"	B-250PF	**31XC12**
	260 lb.	—	—	—	46"	22"	32½"	B-300PF	**31XC14**
	360 lb.	—	—	—	46"	30"	33½"	B-500PF	**31XC16**
	550 lb.	—	—	—	46"	44"	33½"	B-700PF	**31XC18**
	600 lb.	—	—	—	46"	48"	33½"	B-800PF	**31XC20**
	660 lb.	—	—	—	46"	52"	33½"	B-900PF	**31XC22**

ENERGY STAR qualified.


No. 36RF27


No. 36RF26

Ice Machines and Dispensers

Ice-O-Matic

- 115V

No. 36RF31 is a continuous-flow ice maker with non-refrigerated ice storage. No. 36RF27 has a sanitary, touch-free dispenser. Lighted keypad and design allows you to fill large water pitchers. No. 36RF26 allows easy cleaning of the storage bin without moving the machine. Find more Ice-O-Matic® products on Grainger.com®.

Description	Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Maker, Undercounter	85 lb.	22 lb.	Pearl®	Air	33⅜"	14⅞"	19"	GEMU090	**36RF31**
Ice Dispenser, Ice Maker, Water Dispenser, Countertop	273 lb.	12 lb.	Pearl®	Air	34 13/32"	15 19/64"	26 3/32"	GEMD270A	**36RF27**
Ice Dispenser, Water Dispenser, Floor-Standing	—	180 lb.	—	—	53¼"	30"	33½"	CD40130	**36RF26**
Ice Maker, Modular	1400 lb.	—	Dice	Air	21¼"	30¼"	24¼"	CIM1446FA	**437L47**
		—	Dice	Water	21¼"	30¼"	24¼"	CIM1446FW	**437L48**
		—	Half Dice	Air	21¼"	30¼"	24¼"	CIM1446HA	**437L49**
		—	Half Dice	Water	21¼"	30¼"	24¼"	CIM1446HW	**437L50**
Replacement Filter Cartridge, 0.5 Microns, 1.50 gpm, For Use With Mfr. No. IFQ1, IFQ2 Systems								IOMQ	**36RF14**

Digital/Wireless App Manifolds

YELLOW JACKET®

ManTooth™ gauges provide a wireless connection to your smart device so you can test without losing refrigerant (no hoses or manifolds required). Calculate and display pressure, temp., superheat and sub-cooling on your device. Screenshot feature lets you save and share readings. Rechargeable battery and USB cable included. No. 39DM72 includes a case. No. 48WE24 includes dual non-tethered pressure/temperature gauges, 2 wired temperature clamps, and 1 interchangeable vacuum gauge.

PARKER

Lightweight wireless sensors can sync with a smart device app so you can read and display a system's real-time pressure and temp., plus display superheat and sub-cooling without using hoses or manifold gauges. Case included.

TESTO

All include a large back-lit digital display, sight glass, and batteries. Included case, except for No. 39DM73.

No. 39DM73—Includes 60 refrigerant profiles.

No. 39DM74—Bluetooth®-linked app integration for monitoring, report generation/sending via email. Superheat and sub-cool calculations and 60 refrigerant profiles (more are downloadable). Includes 2 NTC temp. clamps.

No. 39DM75—Bluetooth®-linked app integration for monitoring, report generation/sending via email. Simultaneous superheat and sub-cool calculations and 60 refrigerant profiles (more are downloadable). Includes external vacuum probe and 2 NTC temp. clamps.

No. 21C649—Internal vacuum sensor, data logging and printing capabilities, and a third probe port. Simultaneous superheat and sub-cool calculations and 40 refrigerant profiles (more are downloadable). Includes 2 NTC temp. clamps and USB cable.



No. 45TY46
(Phone not included)



No. 21C649

Description	Refrigerant Compatibility	No. of Valves	Accuracy	Gauges High-Side Red	Gauges Low-Side Blue	Brand	Mfr. Model	Item No.
ManTooth™ Wireless Digital, P/T Dual, Rubber Boot (Tethered)	Multiple Refrigerants	—	±0.5-1-2%	—	—	Yellow Jacket	67002	**36WG62**
ManTooth™ Wireless Digital, P/T Dual, Rubber Boot (Non-Tethered)		—	±0.5-1-2%	—	—	Yellow Jacket	67003	**39DM72**
ManTooth™ Wireless Digital, P/T/V Dual, Side Grip		2	±1.00%	0 to 700 psi	0 to 700 psi	Yellow Jacket	67023	**48WE24**
Smart Service Tool Kit, Wireless		0	±0.75%	0 to 700 psi	0 to 300 psi	Parker	SSTK-PARKER	**45TY46**
testo 549 Digital Manifold		2	±0.5-1-2%	0 to 870 psi	0 to 870 psi	Testo	0560 0550	**39DM73**
testo 550 Digital Manifold, Bluetooth®/App		2	±0.5-1-2%	0 to 870 psi	0 to 870 psi	Testo	0563 1550	**39DM74**
testo 557 Digital Manifold with Vacuum Gauge, Bluetooth®/App		4	±0.5-1-2%	0 to 870 psi	0 to 870 psi	Testo	0563 1557	**39DM75**
testo 570 Digital Manifold with Data Storage		4	—	0 to 725 psi	0 to 725 psi	Testo	0563-5703	**21C649**

Manifold Gauge Sets and Charger

Yellow Jacket®—Manifolds offer 60" UL high-pressure hose sets. Aluminum 4-valve manifolds feature ⅜" vacuum port and exclusive 100 mesh filter within each flare fitting to keep out particulate material and extend seat life. All manifold bodies have lifetime manufacturer's warranty. Gauges offer 1% full scale accuracy and polycarbonate crystal cover to prevent face damage. 3⅛" gauges have Flutterless™ technology. Gauges are adaptable to other industry manifolds.

JB Industries—Nos. 20HK13 and 36P061 feature full-flow design for faster evacuation and charging. Nos. 14X855 and 14X854 have internal metering ball valves for liquid charging; no liquid charging adapter required. Most have 3⅛" gauges with 3-refrigerant scales; No. 14X858 features 4" gauges with 4-refrigerant scales, Class 1. Nos. 35YX49 and 36P061 have secure seal fittings.

Imperial®—Precision flutter- and pulsation-resistant gauges with protective boots. PolarShield® high-pressure UL Recognized barrier hoses. 2-valve manifolds are brass; 3- and 4-valve manifolds are aluminum. 4-valve manifolds feature ⅜" vacuum port. No. 1YNU9 has integrated liquid low side charger.

Dayton®—All units include 72" hose sets. Nos. 4PDF8, 4PDF7, and 4PDG1 use flutter-resistant dry gauges.



No. 3KU65



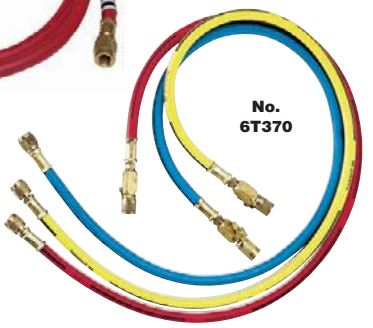
No. 4PDG1



No. 12H946

No. of Valves	No. of Hoses	Hose Length	Refrigerant Compatibility	Gauges High-Side Red	Gauges Low-Side Blue	Brand	Mfr. Model	Item No.
Analog Manifolds								
2	0	—	Multiple Refrigerants	—	0 to 350 psi	Yellow Jacket	93853	**33NT65**
2	3	60"	R-422D, R-438A, R-407C	0 to 500 psi	30" Hg to 350 psi	JB Industries	M2-22831	**20HK13**
2	0	—	R-404A, R-407C, R-407A	0 to 800 psi	30" Hg to 500 psi	JB Industries	M2-25515	**36P061**
2	3	36"	R-12, R-22, R-502	0 to 800 psi	30" Hg to 350 psi	Imperial	496-C	**6X639**
2	3	60"	R-22, R-134A, R404A	0 to 500 psi	30" Hg to 250 psi	Imperial	443-C	**36J595**
2	0	—	R-22, R-134A, R-404A	0 to 500 psi	30" Hg to 120 psi	Yellow Jacket	42005	**29AU08**
2	3	60"	R-22, R-134A, R-404A	0 to 500 psi	30" Hg to 120 psi	Yellow Jacket	42006	**29AU09**
2	3	72"	R-12, R-22, R-502	0 to 500 psi	30" Hg to 350 psi	Dayton	4PDF8	**4PDF8**
2	3	72"	R-134A Automotive	0 to 500 psi	30" Hg to 120 psi	Yellow Jacket	49847	**1WLG3**
2	3	72"	R-134A Automotive	0 to 500 psi	30" Hg to 350 psi	Dayton	4PDF7	**4PDF7**
3	3	36"	Multiple Refrigerants	0 to 800 psi	0 to 500 psi	JB Industries	22733	**415G08**
4	4	60"	R-12, R-22, R-502	0 to 800 psi	30" Hg to 350 psi	Imperial	621-C	**1A216**
4	4	60"	R-22, R-134A, R-404A	0 to 500 psi	30" Hg to 350 psi	JB Industries	26133	**14X855**
4	4	60"	R-22, R-134A, R-404A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	49987	**29AU17**
4	4	60"	R-22, R-134A, R404A	0 to 500 psi	30" Hg to 250 psi	Imperial	843-CS	**36J594**
4	4	60"	R-134A	0 to 500 psi	30" Hg to 350 psi	Imperial	631CKP	**3XL15**
4	4	60"	R-134A, R-404A, R-507	0 to 500 psi	30" Hg to 350 psi	Imperial	651-C	**3KU72**
4	4	78"	CO2	0 to 3000 psi	30" Hg to 1500 psi	Yellow Jacket	45925	**423N92**
Analog Manifolds, R-410A Compatible								
2	0	—	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	42001	**29AU07**
2	3	60"	R-22, R-404, R-410A	0 to 600	-30 to 500	JB Industries	22233	**35YX48**
2	3	60"	R-22, R-404, R-410A	0 to 600	-30 to 500	JB Industries	22246	**35YX49**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	49867	**12H947**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	42004	**38D864**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	M2-5-410A-SS	**36P060**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	Imperial	421-C	**3KU65**
2	3	60"	R-22, R-410A, R-407C	0 to 800 psi	30" Hg to 800 psi	Yellow Jacket	42044	**10M827**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	M2-22231	**2LHR9**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	M2-5-410A	**3TRA6**
2	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	24233	**3TRA7**
2	3	72"	R-410A, R-22, R404A, R-407C	0 to 800 psi	30" Hg to 600 psi	Dayton	4PDG1	**4PDG1**
2	3	60"	R-410A	0 to 800 psi	30" Hg to 800 psi	Yellow Jacket	42024	**10M823**
2	3	60"	Multiple Refrigerants	0 to 800 psi	30" Hg to 500 psi	CPS Blackmax	MBHP5E	**406D47**
3	3	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	Imperial	718-CC	**1YNU9**
4	0	—	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	46010	**29AU19**
4	4	60"	Multiple Refrigerants	0 to 800 psi	30" Hg to 500 psi	CPS Blackmax	MV4H4P5EZ	**406D50**
4	4	60"	R-22, R-410A, R404A	0 to 800 psi	30" Hg to 500 psi	Imperial	846-CS	**36J596**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	25233	**3TRA8**
4	4	60"	R-22, R-134A, R-404A, R-410A	0 to 800 psi	30" Hg to 400 psi	JB Industries	25708	**14X858**
4	4	60"	R-22, R-410A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	49977	**10M813**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	Imperial	644-C	**3KU64**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 500 psi	JB Industries	26200-310	**14X854**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	49967	**12H946**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	49968	**29AU14**
4	4	60"	R-22, R-404A, R-410A	0 to 800 psi	30" Hg to 350 psi	Yellow Jacket	46013	**29AU20**





Charging and Evacuation Hoses

- Working pressure: 800 psi
- Burst pressure: 4000 psi

Dayton®—Compatible with HCFC and HFC refrigerants, including R-410A. Meet SAE J2196.

JB Industries Kobra® Kevlar®—Hoses feature secure seal fittings and are for use with R-410A. UL Recognized.

Imperial® Kevlar®-Lined PolarShield®—Can be used with all blends of refrigerants. Adjustable brass core depressor to match valve core. 905 Series hoses have ¼" FFL connections with auto shut-off on 1 end. Nos. 6T370 and 6T371 have permanently attached straight Kwik-Coupler® shut-off connector at 1 end of each hose. R-410A compatible. No. 3T473 is C-UL Recognized only. Other PolarShield hoses meet all EPA requirements, are UL Recognized, and meet UL 1963 and SAE J2196.

Yellow Jacket PLUS II™—Hoses feature double barrier protection and are compatible with all refrigerants, including R410A. Compact ball valves recommended for R410A; SealRight™ fittings feature low loss anti-blow back connection; standard ends offer an "Adjust-a-Valve" depressor. ¼" hoses are UL Recognized (SA9737).

Color	Length	Connec. Size	Mfr. Model	Item No.
Dayton®				
Red	72"	¼" Female	4PDG6	**4PDG6**
Yellow	72"	¼" Female	4PDG5	**4PDG5**
Blue	72"	¼" Female	4PDG7	**4PDG7**
Red, Yellow, Blue	72"	¼" Female	4PDG4	**4PDG4**
Black	72"	⅜" Female	4PDG8	**4PDG8**
JB Industries Kobra® Kevlar®				
Red	60"	¼" Female	CLS-60R	**36P059**
Red	72"	¼" Female	CLS-72R	**1AKD6**
Yellow	60"	¼" Female	CLS-60Y	**36P057**
Yellow	60"	⅜" Female	CL6-60Y	**35Y836**
Blue	60"	¼" Female	CLS-60B	**36P058**
Black	72"	¼" Female	CLB-72	**1AKD8**
Red, Yellow, Blue	72"	¼" Female	CCLS-72	**35Y850**
Red, Yellow, Blue	60"	Yellow Hose ¼" Female x ¼" Female, Red and Blue ¼" Female x 5/16" Female	CCLS5-60	**35YX42**
Red, Yellow, Blue	60"	¼" Female	CCLS-60	**2LHT1**
Red, Yellow, Blue	60"	Red/Yellow/Blue Hose ¼" Female x ¼" Female, Black Hose ⅜" Female x ⅜" Female	CCLE4-60	**35YX43**

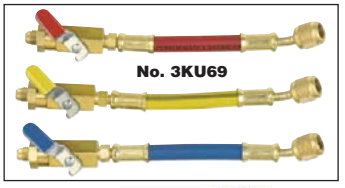
Color	Length	Connec. Size	Mfr. Model	Item No.
Imperial® Kevlar®-Lined PolarShield®				
Red	36"	¼" Female	803-MRR	**6X643**
Red	60"	¼" Female	805-MRR	**6X646**
Red	60"	¼" Female	905-MRR	**36J603**
Yellow	36"	¼" Female	803-MRY	**6X642**
Yellow	60"	⅜" Female	560-FTY	**3T473**
Yellow	60"	¼" Female	805-MRY	**6X645**
Yellow	60"	¼" Female	905-MRY	**36J601**
Blue	36"	¼" Female	803-MRB	**6X641**
Blue	60"	¼" Female	805-MRB	**6X644**
Blue	60"	¼" Female	905-MRB	**36J602**
Red, Yellow, Blue	36"	¼" Female	803-KCS	**6T370**
Red, Yellow, Blue	60"	¼" Female	805-MRS	**4LEP3**
Red, Yellow, Blue	60"	¼" Female	905-MRS	**36J599**
Red, Yellow, Blue	72"	¼" Female	806-MRS	**4LEP4**
Red, Yellow, Blue	72"	¼" Female	806-KCS	**6T371**
Yellow Jacket PLUS II™				
Red	48"	¼" Female	21648	**38D870**
Red	60"	¼" Female	21660	**1WLG7**
Red	72"	¼" Female	21672	**38D873**
Yellow	60"	¼" Female	21060	**1WLG6**
Yellow	60"	⅜" Female	14560	**1WLG9**
Yellow	72"	¼" Female	21072	**38D871**
Blue	48"	¼" Female	21248	**38D869**
Blue	60"	¼" Female	21260	**1WLG8**
Blue	72"	¼" Female	21272	**38D872**
Red, Yellow, Blue	36"	¼" Female	21983	**29AU30**
Red, Yellow, Blue	60"	¼" Female	21985	**1WLH1**
Red, Yellow, Blue	60"	¼" Female	22985	**12H942**
Red, Yellow, Blue, Black	60"	¼" Female	21990	**33NT64**
Yellow Jacket PLUS II™ with Compact Ball Valve				
Red	60"	¼" Female	29660	**10M804**
Yellow	60"	¼" Female	29060	**10M802**
Blue	60"	¼" Female	29260	**10M803**
Red, Yellow, Blue	36"	¼" Female	29983	**29AU38**
Red, Yellow, Blue	48"	¼" Female	29984	**38D878**
Red, Yellow, Blue	60"	¼" Female	29985	**10M805**
Red, Yellow, Blue	72"	¼" Female	29986	**38D879**
Yellow Jacket PLUS II™ with Double Barrier Protection				
Yellow	48"	¼" Female	21048	**38D868**
Red, Yellow, Blue	48"	¼" Female	21984	**38D874**
Red, Yellow, Blue	72"	¼" Female	21986	**38D875**
Yellow Jacket PLUS II™ with FlexFlow™ Valve				
Red	9"	¼" Female	25602	**29AU34**
Yellow	9"	¼" Female	25002	**29AU32**
Blue	9"	¼" Female	25202	**29AU33**
Red, Yellow, Blue	60"	¼" Female	25985	**29AU36**
Red, Yellow, Blue	72"	¼" Female	25986	**29AU37**
Yellow Jacket FlexFlow™ Assembly				
Red, Yellow, Blue	9"	¼" Female	25980	**29AU35**
Yellow Jacket PLUS II™ with SealRight™ Fitting				
Red, Yellow, Blue	36"	¼" Female	22983	**29AU31**
Red, Yellow, Blue	48"	¼" Female	22984	**38D876**
Red, Yellow, Blue	72"	¼" Female	22986	**38D877**

Manifold Hose Accessories

Nos. 38D865 and 38D866 feature SealRight™ low loss anti-blow back connection. No. 38D867 Ball Valve Kit recommended for R410A.











Item	Connec. Size	Brand	Mfr. Model	Item No.
Acme Union	½" Acme Male x ¼" SAE Female	JB Industries	AF-13455	**3DXF5**
Low Loss Quick Coupler	¼" Male x ¼" Female	JB Industries	33112N	**3AXF7**
Quick Coupler	⅛" (F)NPT x ¼" Female	JB Industries	QC-S4A	**3DXH1**
Quick Coupler	¼" SAE Male x ½" Acme Female	JB Industries	QC-13445-134A	**3DXG6**
Quick Coupler	¼" Male x ¼" Female	JB Industries	QC-S4	**3DXG9**
Quick Coupler	¼" (F)NPT x ¼" Female	JB Industries	QC-S4B	**3DXH3**
Quick Coupler	¼" Male x 5/16" Female	JB Industries	QC-S5	**3DXH4**
Quick Coupler	½" Acme Male x ¼" SAE Female	JB Industries	QC-S4A-134a	**3DXH2**
Quick Coupler, No Depressor	¼" Male x 5/16" Female	JB Industries	QC-S5S	**3DXH5**
Quick Coupler, No Depressor	¼" Male x ⅜" Female	JB Industries	QC-S64	**3DXH6**
0/90° Angle				
Quick Coupler, Access Tee	¼" Quick Coupler x ¼" Tee	JB Industries	A34000	**3DXF4**
0° Angle				
Ball Valve Adapter	¼" Male x ¼" Female	Yellow Jacket	93844	**29AU29**
Liquid Charging Adapter	¼" Male x ¼" Female	JB Industries	LC-4	**20W314**
Liquid Charging Adapter	¼" Male x ¼" Female	Yellow Jacket	41123	**29AU26**
Liquid Charging Adapter	5/16" Male x 5/16" Female	JB Industries	LC-5	**20W315**
Liquid Charging Adapter, Kwik Charge	¼" Male x ¼" Female	Imperial	535-C	**3KU66**
Quick Coupler	¼" SAE Male x 5/16" Female	JB Industries	A31656	**35YX44**
Quick Coupler	5/16" SAE Male x ¼" Female	JB Industries	A31665	**35YX45**
Quick Coupler, Low Loss	¼" Male x ¼" Female	GA	10U324	**10U324**
Quick Coupler, Low Loss	¼" Male x ¼" Female	GA	10U326	**10U326**
Quick Coupler, Low Loss	¼" SAE Male x 5/16" Female	JB Industries	33115N	**35YX46**
Quick Coupler, Low Loss	¼" Male x ¼" Female	Yellow Jacket	19109	**38D865**
Quick Coupler, Low Loss, Kwik-Coupler	¼" Male x ¼" Female	Imperial	16-C	**33NR65**
Swivel Coupler	¼" Female	JB Industries	D10244	**35Y864**
30° Angle				
Ball Valve Adapter Hose	¼" Male x ¼" Female	Dayton	4PDG3	**4PDG3**
Ball Valve Adapter Hose Set	¼" Male x ¼" Female	Imperial	800-MBS	**3KU69**
45° Angle				
Ball Valve Adapter	¼" Male x ¼" Female	Yellow Jacket	93843	**29AU28**
Ball Valve Adapter Hose Set	¼" Male x ¼" Female	Yellow Jacket	93842	**38D867**
Quick Coupler	¼" SAE Male x 5/16" Female Quick Coupler	Yellow Jacket	19173	**38D880**
Quick Coupler, Low Loss	¼" Male x ¼" Female	Yellow Jacket	19208	**29AU25**
90° Angle				
Low Loss Quick Coupler	¼" Male x ¼" Female	JB Industries	33113N	**3AXF8**
Quick Coupler	¼" Male x ¼" Female	JB Industries	QC-E4	**3DXG7**
Quick Coupler	¼" Male x 5/16" Female	JB Industries	QC-E5	**3DXG8**
Quick Coupler, Low Loss	¼" Male x ¼" Female	GA	10U325	**10U325**
Quick Coupler, Low Loss	¼" Male x ¼" Female	GA	10U327	**10U327**
Quick Coupler, Low Loss	¼" SAE Male x 5/16" Female	JB Industries	33116N	**35YX47**
Quick Coupler, Low Loss	¼" Male x ¼" Female	Yellow Jacket	19209	**38D866**
Quick Coupler, Low Loss, Kwik-Coupler	¼" Male x ¼" Female	Imperial	17-C	**33NR66**

We Carry Refrigerant Locking Caps, Sleeves, and Drivers on Grainger.com®



No.
20HJ97

Refrigerant Recovery Machines

UL CERTIFIED
To meet EPA Regulations per ARI 740
8EA7

Bacharach® 2-Port—Powerful twin cylinder 1-HP oilless compressor, high/low pressure shut-off, and easy 1-knob operation. Integrated purge feature minimizes cross-contamination of refrigerants. Include in-line filter and connection hose. No. 31TP42 has 80% shutoff installed.

Dayton® 2-Port—Oilless, air-cooled, direct-drive compressor easily switches between liquid and vapor recovery. Shut off when recovery is done.

Inficon Vortex® Dual 2-Port—1 HP dual piston compressor and micro-channel condenser ensures sustained speed in high-temp. environments.

JB Industries—Powerful dual-piston compressor, simple 2-valve operation, and is self-purging without having to change hoses.

Robinair®—Oilless compressor and lets you recover both vapor and liquid refrigerant. Simple 2-valve controls and auto, high-pressure shut down.

Yellow Jacket YJ-LTE™—Easy-to-use purge circuit for clearing after each job. 1-valve and 1-gauge control panel.

Yellow Jacket RecoverXLT 2-Port—Oilless units offer single-valve control for easy changeover from liquid to vapor to purge. CPR valve regulates refrigerant to compressor; eliminates throttling the suction valve.


No. 3MMT4


No. 1WLG1

Description	Dimensions (in.) H	W	D	Weight (lb.)	Mfr. Model	Item No.
Bacharach 2-Port	13¾	10¼	16⅛	28.5	2020-8000	**31TP41**
Bacharach 2-Port	13¾	10¼	16⅛	28.5	2020-8001	**31TP42**
CPS Pro-Set 2-Port	12	7	16¼	28.1	TRS600	**406D45**
Dayton 2-Port	20	15	11	43	—	**4UKV9**
Inficon Vortex® Dual 2-Port	16.7	9.2	14.2	29.75	714-202-G1	**3MMT4**
JB Industries 2-Port	16	19	11	39	F6-DP	**48ZJ65**
Robinair 2-Port	11	15	8.3	18	RG3	**46C629**
Robinair 2-Port	12	9	20	27	RG6	**52VN87**
Robinair 4-Port	22	14	16	40	25200B	**52VN79**
Yellow Jacket YJ-LTE	11½	9	13½	24	95730	**33NT67**
Yellow Jacket RecoverXLT 2-Port	12½	12 13/32	19 5/16	40.05	95760	**1WLG1**
Yellow Jacket RecoverXLT 2-Port, with Tank Overfill Switch	15	21¼	13½	38	95762	**29AU04**
Dayton Float Cable Repair Part, 6 Ft., For Use with 4UKW1					—	**4UKW2**

Vacuum Pumps

All units are 115V, 60 Hz, and have check valves, a sight glass, and gas ballast valve.

Bacharach®—Compact, 2-stage, rotary vane pumps.

Dayton®—Smaller pump design allows portability. On/Off rocker switch.

JB Industries—2-stage, direct-drive pumps with low-profile On/Off rocker switch. Nos. 1AKD9 and 5UET2 have well-protected drain valves sealed with O-rings to prevent leaks. All are UL Recognized.

Robinair®—Models have 2-stage rotary vane design. No. 52VN81 VacuMaster™ has high CFM rating for fast evacuation. No. 52VN86 features a heavy-duty motor and an Iso-Valve™ that lets you shut off the pump while still connected to the A/C system.

Yellow Jacket SuperEvac™—2-stage pumps pull a vacuum down to 15 microns or better. Feature built-in vacuum gauge, all-metal construction with steel handle, and intake filter screen.


No. 1RK23, Shown with Oil Caddy

Description	Displacement	Amps AC	HP	Inlet Port Size	Cord	Weight	Mfr. Model	Item No.
Pumps								
Bacharach	2.0 cfm	—	¼	¼" and ⅜" Flare	6 ft.	21.5 lb.	2002-0001	**3MMU9**
	5.0 cfm	—	½	¼" and ⅜" Flare	6 ft.	26.3 lb.	2002-0005	**3MMV2**
CPS Pro-Set	6.0 cfm	5.0	½	⅜", ¼" and ½" Flare	6 ft.	22.5 lb.	VPS6DU	**406D62**
Dayton	3.0 cfm	5.0	¼	¼" and ⅜" Flare	6 ft.	19.8 lb.	—	**2VKY3**
	5.0 cfm	7.0	⅓	¼" and ⅜" Flare	6 ft.	24.3 lb.	—	**2VKY4**
	7.0 cfm	7.5	½	¼" and ⅜" Flare	6 ft.	37.5 lb.	—	**2VKY5**
	9.0 cfm	9.0	½	¼" and ⅜" Flare	6 ft.	37.5 lb.	—	**2VKY6**
JB Industries	4.0 cfm	7.0	½	¼" and ⅜" Flare	6 ft.	31.1 lb.	DV-4E	**1AKD9**
	3.0 cfm	7.5	½	¼" and ⅜" Flare	6 ft.	29.6 lb.	DV-85N	**1RK24**
	6.0 cfm	5.2	½	¼" and ⅜" Flare	6 ft.	30.0 lb.	DV-6E	**5UET2**
	7.0 cfm	7.5	½	⅜", ¼" and ½" Flare	6 ft.	31.0 lb.	DV-200N	**1RK23**
	10.0 cfm	7.7	½	⅜", ¼" and ½" Flare	6 ft.	35.3 lb.	DV-285N	**3WU95**
Robinair	5.0 cfm	20.0	⅓	¼" and ⅜" Flare, ½" ACME	6 ft.	21.0 lb.	15500	**52VN81**
	6.0 cfm	20.0	½	¼" and ⅜" Flare, ½" ACME	6 ft.	27.0 lb.	15600	**52VN86**
Yellow Jacket SuperEvac™ Premium	6.0 cfm	6.2	½	¼" and ⅜" Flare	8 ft.	35.0 lb.	93560	**1WLF8**
	8.0 cfm	6.2	½	¼" and ½" Flare	8 ft.	37.9 lb.	93580	**1WLF9**
	11.1 cfm	10.0	½	¼" and ½" Flare	6 ft.	32.0 lb.	93590	**38D861**
Yellow Jacket Bullet Economy	7.0 cfm	—	½	¼" and ⅜" Flare	6 ft.	30.8 lb.	93600	**10M826**
Oil and Oil Caddy								
JB Industries Vacuum Pump Oil, Non-Detergent, 1 qt.							DVO-12	**20HJ90**
JB Industries Vacuum Pump Oil Caddy							DV-T1	**20HJ89**
Yellow Jacket SuperEvac™ Oil, 1 gal.							93096	**29AU06**

Refrigerant Recovery Cylinders and Liquid Level Sensor

GA GRAINGER APPROVED

Powder-coated, reusable cylinders meet DOT Spec. 4BA and ARI guidelines. Dual-port valve for liquid or vapor. A refrigerant recovery scale or float sensor (sold separately) is required to avoid overfilling. Liquid Level Sensor No. 4LZH4 serves as a float switch.


No. 4LZH2

Description	Dimensions (in.) H	W	Item No.
Cylinder, 30 lbs.	17 15/16	9 1/16	**4LZH2**
Cylinder, 50 lbs.	19 7/16	12¼	**4LZH3**
Liquid Level Sensor For Use with 4LZH2, 4LZH3			**4LZH4**


No. 3TRC1


No. 40KJ53


No. 5PWF7

Refrigerant Charging/Recovery Scales

Scales are electronic with 3 digital display modes: lb./oz., decimal lb., and kg. Case included.

No. 5PWF7—¼" male flare and ½" ACME fittings. Holds 100 charge/recovery programs.

Wireless—Units track refrigerant transferred over multiple jobs and can support multiple users. No. 40KJ53 displays through your smartphone via a free app. No. 40KJ54 can operate without a smartphone via wireless handpiece with display.

Description	Max. Cap. (lb.)	Accuracy	Brand	Mfr. Model	Item No.
Charging/ Recovery Scale	110	±0.25 oz	Yellow Jacket	68802	**8EZ89**
	110	0.1 oz./0.005 lbs./2g	TIF	TIF9010A	**1T921**
	110	±2g	GA	5PWF8	**5PWF8**
	200	±2g	GA	5PWF9	**5PWF9**
	220	.25 oz./10 gm	JB Industries	DS-20000	**3TRC1**
	220	±1.0 oz./ ±0.06 lb./ ±0.03 kg or 0.1% of Reading, Whichever is Greater	Yellow Jacket	68812	**29AU22**
	220	0.5oz	TIF	TIF9030	**3MMU7**
	250	0.25 oz./10g	JB Industries	DS-20000S	**48ZJ67**
	220	±0.05% Reading	CPS Compute-A-Charge	CC220	**406D38**
	330	±0.44 lb.	Bacharach	2010-0000	**31TP43**
Programmable Charging/ Recovery Meter	220	±2g	GA	5PWF7	**5PWF7**
Wireless Scale	330	±0.2% Readings	UEI Test Instruments	WRSX	**447M21**
Wireless Charging Scale, App-Based	250	±0.06% Reading ±0.25 oz./10 g	Inficon	719-202-G1	**40KJ53**
Wireless Charging Scale, with Handpiece	250	±0.06% Reading ±0.25 oz./10 g	Inficon	719-203-G1	**40KJ54**
Wireless Charging/ Recovery Scale	110	68°to 122 °F/ ±0.25% FS ±1 dgt	UEI Test Instruments	WRS110	**53YP67**
Optional Handpiece, For Use with 40KJ53			Inficon	719-715-G1	**40KJ55**



No. 10M819

Refrigerant Leak Detectors

Detect all halogenated refrigerants, except No. 5ZXH2 only detects CO_2 refrigerant.

Yellow Jacket—No. 10M819 has flashing tip, UV lights, and Smart Alarm LED that shows the size of leak on a scale of 1 to 9.

Johnson Controls—Manual and automatic background adjustment.

Inficon—Automatic background adjustment, audible and visual alarms. Nos. 5ZXH2, 5ZXH1, and 3MMN3 include multiple LEDs and headphone jack.

Bacharach—No. 3MMT2 has high or low sensitivity modes.

JB Industries—Allows you to detect all HFC, HCFC, and blended refrigerants, plus the new HFO refrigerants. No. 35YX37 has a peak function that stores the highest change in refrigerant concentration while continuing to detect leaks.

UEI Test Instruments—No. 52AU29 has a digital numeric leak size indicator with 3 sensitivity levels and a visual LED leak alarm in a splash-resistant housing. No. 52WH43 can detect existing halogenated refrigerants and blends with 2 position sensitivity selector, plus audible and visual leak rate indicators. No. 52ND59 is NIST certified.

Description	Sensitivity per Year	Sensitivity Level	Mfr. Model	Item No.
Yellow Jacket				
AccuProbe™ II, Audible Signal, 4AA Batteries, Low Battery Indicator, Case	1.7 g /year	3	69354	**10M820**
AccuProbe UV™, UV Lights, Audible Signal, 4AA Batteries, Low Battery Indicator, Case	1.7 g /year	3	69336	**10M819**
Johnson Controls				
Positive Ion Emission Heated Diode, Rechargeable Battery, Charger, Case	0.1 oz./yr.	—	RLD-H10PRO-1	**45GX87**
Replacement Sensor, For Use With Mfr. No. RLD-H10G-1 and RLD-H10PM-1	—	—	RLD-H10-601R	**40G418**
Maintenance Kit: 100 Replacement Filters, 3 Airflow Indicator Balls, 3 Probe Tips, Case	—	—	RLD-H10-602R	**40G419**
Inficon				
D-TEK® CO2 Refrigerant, Infrared Absorption, Infrared Cell, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	5g/year	2	716-202-G1	**5ZXH2**
TEK-Mate® Heated Diode Sensor with Mechanical Pump, Audible & Visual Signal, 2 D Batteries, Low Battery Indicator, Spare Filters, Case	0.25 Oz./Year CFCs, HCFCs, HFCs & HFOs	2	705-202-G1	**3MMN5**
Compass® Heated Diode Sensor with Mechanical Pump, Audible Signal, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	0.15 Oz./Year CFCs, HCFCs, HFCs & HFOs	2	717-202-G1	**5ZXH1**
D-TEK® Select Infrared, Audible Signal, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	0.10 Oz./Year CFCs, HCFCs, HFCs & HFOs	2	712-202-G1	**3MMN3**
Bacharach				
H-10 PRO, Positive Ion Emission Heated Diode, Rechargeable Battery & DC Wall Adapter, Case, Headphone Port	0.006 oz./yr. CFC, HEC, HCFC, R-410A & R-507	—	H-10 Pro	**38GN48**
Tru Pointe® IR, Audible & Visual Signal, Rechargeable Battery, AC Wall Charger, DC Charger, Flexible Probes, Case	0.1 oz/yr (3 g/yr)	—	0019-8200	**45AW26**
Tru Pointe®, Patented Sensor, Audible & Visual Signal, 2 D Batteries, Low Battery Indicator, Flexible Probes, Case	0.25 Oz./Year (6g/Yr) (Probe held over leak for 5 sec.)	2	19-8106	**3MMT2**
JB Industries				
Aurora® Infrared, Lightweight, Advanced Infrared Sensor, Long Life Sensor, Alarming Capability, Case, Wand Extension, Needle Nose Probe, 12V Vehicle Charger, 120 to 240V Wall Charger, Filter	0.1 oz./yr.	Adjustable	LD-6000IR	**35YX37**
Prowler® LD 5000, Long-Life Electrochemical Sensor, 3 Sensitivity Levels, LCD, Audio and Vibrating Handle Alarm, Battery Operated, (4) AA Batteries	0.05 Oz	Adjustable	LD-5000	**20HJ91**
Quest LD-3000, Long-Life Electrochemical Sensor, 3 Adjustable Sensitivty Sensors, Case, (4) AA Batteries	0.10 Oz./Year CFCs, HCFCs, & HFCs	3	LD-3000	**415F92**
Robinair				
Audible Signal, True Mechanical Pump, Automatic Calibration & Reset to Ambient, Long Life Stable Sensor, Low Battery Indicator, 3 Adjustable Sensitivity Levels. Leak Test Vial, (4) AA Alkaline Batteries, (5) Replacement Sensor Filters	0.05 oz./yr. R-134, 0.025 oz./yr. R-22	Adjustable	LD3	**473F78**
UEI Test Instruments				
Solid Electolyte Semiconductor Sensor, Digital Numeric Leak Size Detector, Visual LED Leak Alarm, Automatic Calibration, Ambient Level Reset, Splash Resistant, Worklight, (4) AA Batteries, Case, Sensor Filters, Leak Test Vial	0.05 oz./yr. R-134a, 0.025 oz./yr. R-22	3	RLD15B	**52AU29**
2 Position Sensitivity Selector, Audible Tic Rate, Long Gooseneck Probe, On-Hand Operation, Automatically Detects All Existing Refrigerants and Blends, 9V Battery; Lead Test Vial	0.5 oz/yr.	2	RLD10	**52WH43**
Visual LED Leak Alarm, Automatic Calibration and Ambient Level Reset, Splash Resistant, Lightweight, (4) AA Batteries, Case, Filter, Leak Vial	0.05 oz./yr. R-134a, 0.025 oz./yr. R-22	3	RLD15B-N	**52ND59**
Replacements				
Replacement Probe Cap And Filter Kit, For Use With Mfr. No. 717-202-G1			717-701-G1	**5ZXH4**
Replacement Probe Filter, For Use With Mfr. No. 3015-4484			3015-2906	**34K571**
Replacement Filters and O-Ring Kit, For Use With Mfr. No. 0019-8200			0019-0801	**45AW27**
Replacement Tip Filter, (Pkg. Qty. 5), For Use With RLD15			RLDTF	**6CMT6**



No. 35LX63

Ultrasonic Leak Detectors

AccuTrak® technology allows you to easily pinpoint pressure and vacuum leaks in air conditioning and refrigeration systems without changing tips or components. Detect any type of refrigerant or gas, even as small as 1.5 oz. per year of refrigerant, or hear a 5 psi leak up to 30 ft. away. Use the Touch Probe to hear internal ultrasound to quickly diagnose malfunctioning valves and bearings. Troubleshoot a TXV in just 5 min. Use the Sound Generator to artificially "sound pressurize" any enclosure or vessel to find leaks; ideal for refrigerator door seals. No. 3KXG7 can detect pressurized or vacuum leaks for any gas including nitrogen. The laser pointer helps you pinpoint leak location, even for far-away leaks.

Includes	Brand	Mfr. Model	Item No.
Headset, Probe, Carry Case, Wave Guide, Battery	Superior AccuTrak®	VPE	**35LX63**
Sound Generator, Headset, Probe, Carry Case, Wave Guide, Battery	Superior AccuTrak®	VPE PRO-PLUS	**35LX64**
Headset, Carry Case, Wave Guide, Battery	Superior AccuTrak®	VPE-GN	**35LX65**
Whisper® Ultrasonic Detector, Probe Extention, Headphones, 2 "D" Size Batteries, Hard Plastic Carrying Case and 2 Year Replacement Warranty	Inficon	711-202-G1	**3KXG7**



No. 4LWX3



No. 20LR04

Data Loggers

Self-contained for temperature, except No. 4LWX3 monitors temperature and humidity. Nos. 20LR03 to 20LR05 have a real-time LCD and user selectable Stop on memory full, or rollover for continuous logging. Display alarm icon for high/low status and retain data if battery fails. All models include cables, software, and battery.

Description	Temp. Range (F)	Relative Humidity Range	Accuracy	Mfr. Model	Item No.
Miniature Data Logger, Temperature and Humidity	-40° to 158°	0 to 99%	±1 °F Temp, ±2% RH	SL300TH	**4LWX3**
Data Logger, Lithium Battery, Temperature	-5° to 160°	—	±0.9 °F (0.5 °C)	SL500T	**20LR03**
Data Logger, Temperature	-5° to 160°	—	±0.9 °F (0.5 °C)	SL500TC	**20LR05**
Data Logger, External Temperature	-5° to 160°	—	±0.9 °F (0.5 °C)	SL500XT	**20LR04**

Leak Detection Kits and Accessories

SPECTROLINE®

FLUKE.

Fluorescent leak detection kits use OEM-approved universal/POE (polyester) solvent-free dyes that reveal leaks as small as ⅛ oz. per yr. or less. Compatible with CFCs, HCFCs, and HFCs with an inspection range up to 25 ft. Use with small and medium air conditioning refrigeration systems, except No. 34GR05 is for medium to large air conditioning and refrigeration systems. All kits treat up to 50 lb. of refrigerant, 4 gal. of lubricant, or 24 tons of cooling, except No. 34GR05 treats up to 400 lb. of refrigerant, 16 gal. of lubricant, or 150 tons of cooling.



No. 34GR04

No. 34GR04—Injector easily overcomes systems pressure and you can add fluorescent dye even if the system is live. The included leak detection flashlight comes with a rechargeable battery and charger.

No. 34GR05—The injector overcomes systems pressure and lets you add fluorescent dye even if the system is operating. The included leak detection flashlight has a rechargeable battery and charger.

No. 34GR02—Kit has an injector that easily overcomes systems pressure and allows you to add fluorescent dye even if system is up and running.

No. 34GR03—Kit allows you to add fluorescent dye and refrigerant in just 1 step.

Description	Includes	Mfr. Model	Item No.
Spectroline Leak Detection Kits			
EZ-Ject™ Kit, Commercial	Fluorescent Leak Detection Flashlight, EZ-Ject Dye Injection System, (2) 0.5 oz. EZ-4/E Multi-Dose Fluorescent Dye Capsules, GLO-AWAY Dye Cleaner, Fluorescence-Enhancing Glasses, Drip Plugs	OLK-400EZ/E	**34GR04**
BigEZ™ Kit, Commercial	Fluorescent Leak Detection Flashlight, BigEZ Multi-Dose Dye Injection System, (1) 4.0 oz. BEZ-4/E Multi-Dose Fluorescent Dye Cartridge, GLO-AWAY Dye Cleaner, Fluorescence-Enhancing Glasses, Drip Plugs	OLK-400BEZ/E	**34GR05**
EZ-Ject™ Kit, Residential	Violet LED Fluorescent Leak Detection Flashlight, EZ-Ject Dye Injection System, (2) 0.5 oz. EZ-4/E Multi-Dose Dye Cartridges, GLO-AWAY Dye Cleaner, Fluorescence-Enhancing Glasses, Drip Plugs for Hose/Coupler	OPK-40EZ/E	**34GR02**
GLO-STICK® Kit, Residential	Violet LED Fluorescent Leak Detection Flashlight, (1) GS-1/E, (2) GS-2/E, (1) GS-3/E Single-Dose Dye Capsules, GLO-AWAY Dye Cleaner, Fluorescence-Enhancing Glasses	OPK-40GS/E	**34GR03**

Amount of Oil in System	Amount of Refrigerant	Dye Type	Typical Applic.	Type of Compressor Oil	Capsule Size	Brand	Mfr. Model	Item No.
Parts and Accessories								
Glo-Stick® Capsules, Inject With Refrigerant, Single-Use								
1.7 qts. to 3.2 qts.	5 - 9.9 Lbs.	Universal/POE	AC & R Systems From 2 to 6 tons	POE, Mineral Oil, Alkyl Benzene	0.52 oz.	Spectroline	GS-2/ECS	**14A015**
3.3 qts. to 2 gal.	10 to 25 Lbs.		AC & R Systems From 6 to 12 tons		0.52 oz.	Spectroline	GS-3/ECS	**14A016**
Up to 1.6 qts.	Up to 4.9 Lbs.		AC & R Systems From 1 to 2 tons		0.52 oz.	Spectroline	GS-1/ECS	**14A017**
Up to 15 fl. oz.	Up to 2.9 Lbs.		AC & R Systems Up to 1 ton		0.03 oz.	Spectroline	GS-101/ECS	**14A018**
EZ-Ject™ Fluorescent Dye Injector Kit, Inject Manually								
Up to 4 gal.	Up to 50 lbs.	Universal/POE	Small and Medium AC&R Systems	POE, Alkylbenzene, or Mineral	(2) 0.5 oz.	Spectroline	EZ-100/ECS	**5LA37**
EZ-Ject™ Dye Cartridge, Multi-Use, Pkg. Qty. 6								
Up to 2 gal.	Up to 25 lbs.	Universal/POE	Small and Medium AC&R Systems	POE, Alkylbenzene, or Mineral	0.5 oz	Spectroline	EZ-4/ECS	**5LA38**
BigEZ™ Dye Cartridge, Multi-Use								
Up to 16 gal.	Up to 400 lb.	Universal/POE	Medium to Large AC&R Systems	POE, Mineral Oil, Alkyl Benzene	4.0 oz.	Spectroline	BEZ-4/ECS	**14A014**
Fluorescent Leak Detection Flashlights								
OPTIMAX™ 400, Cordless, Violet Light, UV, Includes Lamp, Fluorescence-Enhancing Glasses, Lanyard, Belt Holster						Spectroline	OPX-400CS	**34GR06**
OPTI-LUX™ 400, Cordless, Rechargeable, Violet Light, UV, Includes Lamp, Charging Cradle, AC and DC Cordsets, Fluorescence-Enhancing Glasses, Lanyard						Spectroline	OLX-400	**34GR07**
6 UV/Blue LEDs, 3 White LED Flashlight with 100,000 hr. LED Life, Cordless, Includes Key Chain Carabiner						Fluke	RLD2	**5DJE7**

Supco JB YELLOW JACKET INFICON testo fpi UEI TEST INSTRUMENTS ROBINAIR

Vacuum and Superheat/Subcooling Gauges

Supco—No. 1TC70 features a color-coded LED readout and ¼" male flare connections. Includes hanger/stand, quick caps for fittings, and case. Digital models update every ½ sec. and feature ultrafine resolution, auto-off, and a built-in hanger. No. 4FY27 has 4½-digit LCD, thermistor sensor, and reads vacuum in: microns, psi, In Hg, millibars, pascals, Torr, or Millitorr of vacuum. Cleaning port for sensor cleaning and drying. No. 20LR01 is dual port with a backlit LCD. Unit has an audible and visual alarm when preset alarm thresholds are met.

JB Industries—No. 35YX36 measures vacuum and can be remotely monitored via wireless Bluetooth® and/or smartphone with free app. Program unit with a low/high limit alarm and it has data monitoring capabilities. Includes a power adapter and case. No. 5UET3 features programmable alarm, backlight, shutoff, and large LED screen. Factory calibrated. Includes AC adapter and case. No. 3TRC2 provides continuous read on LCD and saves last readout at shutdown. Leakproof design. ¼" swivel flare connection.

Yellow Jacket®—No. 9XHF8 automatically compensates for temp. and can display down to 10 microns in 7 different units. Sensor cord stretches to 24". Auto-Off. Replacement Vacuum Sensor No. 10M817 is sold separately.

Inficon—Pirani sensor for accurate measurements and replaceable filter to protect sensor. Reads from atmosphere to 1 micron. Quick calibration button; ¼" refrigerant flare fitting. Battery life: 45 hr.

Testo—Micron vacuum gauge with wireless Bluetooth® communication to smartphone; 1 micron resolution; display data, create reports, and send via email or SMS.

Test Products International—Temperature compensated, 300 psi overpressure digital vacuum pressure gauge detects leaks created by vacuum, 7 units of measure.

UEI Test Instruments—Provides in-field calibration, analog bar graphs, easy sensor cleaning, and oil contamination sensors.



No. 4FY27



No. 5UET3

Description	Measuring Range	Power Supply	Brand	Mfr. Model	Item No.
Gauges					
Electronic	50 to 5000 Microns	9V Battery	Supco	VG60	**1TC70**
Digital	0 to 19,000 Microns	AAA (3), Not Included	Supco	VG64	**4FY27**
Digital	0 to 19,000 Microns	(3)AA Batteries	Supco	VG640D	**20LR01**
Digital Wireless	0 to 12,000 Microns	Rechargeable Lithium Polymer Battery	JB Industries	SH-35N	**415F94**
Digital Wireless	10 to 12,000 Microns	Rechargeable Lithium Polymer Battery	JB Industries	DV-40S	**35YX36**
Digital	10 to 200,000 Microns	AC or Batteries	JB Industries	DV-41	**5UET3**
Digital	10 to 100,000 Microns	9V Battery	JB Industries	DV-24N	**3TRC2**
Digital	0 to 600 psi	—	Yellow Jacket	69196	**29AU24**
Digital	1 to 760,000 Microns	D Cell Battery	Yellow Jacket	69075	**12H948**
Digital	5 to 25,000 Microns	(2) AA Batteries	Yellow Jacket	69020	**423N91**
Digital	10 to 25,000 Microns	9V Battery	Yellow Jacket	69086	**9XHF8**
Digital	25 to 100,000 Microns	9V Battery	Yellow Jacket	69080	**9XGJ8** *
Digital	1 to 760,000 Microns	9V Battery	Inficon	710-202-G1	**12N632** *
Digital with Bluetooth	0 to 20,000 Microns	(2) AA Batteries	Testo	0560 5522 01	**49ZZ64**
Digital	15 to 12,000 Microns	9V Battery	Test Products Intl.	605	**3KNP6**
Digital	0 to 15,000 Microns	3V Battery	UEI Test Instruments	DMG150	**407M22**
Digital	5 to 10 Microns	(3)AA Batteries	Robinair	RAVG-1	**406P95**

Description	Brand	Mfr. Model	Item No.
Replacement Parts & Accessories			
Vacuum Sensor, For Use With Mfr. No. 69086	Yellow Jacket	69087	**10M817**
Remote Alarm Receiver, For Use With VG640	Supco	R100	**12H939**

**** Battery included.***


A.
No. 12H949


A.
No. 45JT41


B.
No. 12N633


C.
No. 12H951


C.
No. 38D890


C.
No. 38D891


C.
No. 38D892


C.
No. 38D895


D.
No. 38D894


D.
No. 2NXE6


D.
No. 6AWP9


E.
No. 38D883


F.
No. 38D888


G.
No. 33NR63


H.
No. 4PDJ4


H.
No. 3DXD7


H.
No. 38D862


H.
No. 20W312


I.
No. 3DXD6


I.
No. 36J605


J.
No. 1CXH1


J.
No. 3DXF2


J.
No. 5UET4


K.
No. 38D881


K.
No. 36J604


L.
No. 2YJ78


L.
No. 2YJ76


M.
No. 491A19


N.
No. 2PYL9


N.
No. 2PYL8

HVAC and Refrigeration Service Tools

Choose the tools you need from the brands you trust.

Description	Brand	Mfr. Model	Item No.
A. Gas Pressure Testers			
Op. Range 0 to 10 (in. WC), Slack Tube 36.0", Max. Temp. 120°F, Incl. Barb Fitting, Case	Yellow Jacket	78055	**12H949**
Op. Range 0 to 35 (in. WC), Slack Tube 36.0", Max. Temp. 120°F, Incl. Barb Fitting, Case	Yellow Jacket	78060	**12H950**
Manometer, Op. Range -19.95 to 19.95 In WC, Accy. ±1.5%, Incl. Tubing, Fittings	Yellow Jacket	78052	**45JT41**
B. Gas Leak Detectors			
Detects Combustible Gases and Flammable Refrigerants; Intrinsically Safe; Audible/LED Alarms; Incl. 2 D Batteries & Case	Inficon	718-202-G1	**12N633**
Detects Combustion Gases; Smart Alarm, LED; Incl. 4 AA Batteries, Case	Yellow Jacket	69373	**38D901**
Detects Nitrogen, , Uses 4 AA Batteries, Incl. Case	Yellow Jacket	69341	**38D902**
C. Flaring/Swaging Tools			
Flaring Tool, 45° Single Lap, O.D. 3/16, 1/4, 5/16, 3/8, 1/2, 5/8", Incl. Automatic Height Gauge, Cushioned Handle	Yellow Jacket	60278	**12H951**
Flaring Tool, 45° Single Lap, O.D. 3/16, 5/16, 1/4, 3/8, 7/16, 1/2, 5/8", Incl. Case	Yellow Jacket	60210	**38D890**
Flaring Tool, 45° Single Lap, O.D. 3/4", Incl.	Yellow Jacket	60295	**38D893**
Flare/Burnishing Tool, 45° Single Lap, O.D. 3/16, 5/16, 1/4, 3/8, 7/16, 1/2, 5/8", Incl.	Yellow Jacket	60270	**38D891**
Swaging/Flaring Tool, 45° Single Lap, O.D. 3/4", Incl. Case	Yellow Jacket	60440	**38D892**
Swaging Tool, O.D. 3/16, 1/4, 5/16, 3/8, 1/2, 5/8"	Yellow Jacket	60460	**38D895**
Swaging Tool, Punch, O.D. 1/4, 3/8, 1/2, 5/8"	Yellow Jacket	60475	**38D896**
Kit, Flares 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, Cuts 1/8" up to 1 1/8" Pipe	Imperial	275-FSC	**33NR64**
D. Tube Benders			
3-in1, 180°, O.D. 1/4, 5/16, 3/8"	Yellow Jacket	60390	**38D894**
Set, 0° to 90°, O.D. 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8", Incl. Case	Yellow Jacket	60331	**2NXE6**
Set, 0° to 90°, One-Handed, O.D. 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8"	GA	—	**6AWP9**
Reverse Adaptor, 90°, O.D. 1/4 to 7/8"	Yellow Jacket	60342	**38D889**
E. Tube Expander Kits			
O.D. 3/8 - 1 1/8"	Yellow Jacket	60407	**38D882**
Hydraulic, O.D. 3/8 to 1 1/2"	Yellow Jacket	60493	**38D883**
O.D. 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8"	CPS Blackmax	BTLE9	**406D64**
F. Tube Cutters			
Tubing Cutter with Reamer, O.D. 1/8 to 1 1/8"	Yellow Jacket	60101	**38D884**
Tubing Cutter with Reamer, O.D. 1 to 1 5/8"	Yellow Jacket	60102	**38D885**
Tubing Cutter, O.D. 1/8 to 5/8"	Yellow Jacket	60160	**38D886**
Tubing Cutter, O.D. 1/4 to 7/8"	Yellow Jacket	60121	**38D887**
Tubing Cutter, O.D. 1/4 to 1 1/8"	Yellow Jacket	60142	**38D888**
G. Pinch-Off Tool			
O.D. 1/4 to 1/2"	Imperial	105-FFSP	**33NR63**
H. Valve Core Tools			
Evacuation/Core Removal, Core Storage, For 1/4 Schrader Valve	GA	—	**4PDJ5**
Core Remover w/ Hollow Storage Handle, For 1/4 Schrader Valve	GA	—	**4PDJ4**
1/4" Valve Core Remover with Access Port	JB Industries	A32525N	**3DXD7**
Vacuum/Charge & Core Remover, Side Port, 5/16"	Yellow Jacket	18985	**38D863**
Vacuum/Charge & Core Remover, Side Port, 1/4"	Yellow Jacket	18975	**38D862**
Valve Core Removal Tool, 1.625"	JB Industries	CM-CRTOOL	**415F99**
Valve Core Remover, 1/4"	JB Industries	A32500N-G	**20W311**
Valve Core Remover Tool, 1/4"	JB Industries	A32004-G	**20W310**
Valve Core Torque Tool, 1/4", Automatically Torques to 5 lb.	JB Industries	A32008	**20W312**
I. Evacuation/Recovery Tools			
Plier-Type Evacuation/Recovery Tool, Fits 3/16 to 7/8" O.D. Hard Tubing	JB Industries	A32100	**3DXD6**
Line Piercing Recovery Tool, 1/4 to 1/2" O.D., Incl. Spare Gasket	Imperial	PT-109	**36J605**
J. Access & Service Valves			
Kit: Valves, Valve Core Tool, Cores, Plastic Core Remover	JB Industries	AVK-001	**36P062**
Swivel Tee with Depressor, Swivel Nut on Run	Ranco	30-110	**1CXH1**
Back Seating Service Control Valve 1/4 SAE x 1/4 O-Ring Quick Coupler	JB Industries	A33000	**3DXF2**
Nitrogen Purging Adaptor	JB Industries	BRZ-1000	**5UET4**
K. Service Wrenches			
Hex Key Adapter,	JB Industries	T2-HKA	**20W313**
Hex Key Adapter, 1/4"	Yellow Jacket	60609	**38D881**
Hand Ratchet, Reversing, Drive Size 3/16", 1/4", 5/16", 3/8"	Yellow Jacket	60610	**29AU27**
Offset Ratcheting Wrench, , Reversing, SAE Size 1/4", 3/16", 3/8", 5/16"	Yellow Jacket	60616	**38D898**
Box End Wrench, SAE or Metric, Size 1/2" & 3/8"	Yellow Jacket	60615	**29AU40**
Micrometer Torque Wrench, 1/2"	JB Industries	CM-TRQ	**415G02**
Ratcheting Wrench, Reversing, SAE Size 1/4, 3/16, 3/8, 5/16	Yellow Jacket	60613	**38D897**
Combination Ratcheting Wrench, Reversing, 3/16, 1/4, 1/2, 9/16"	Imperial	124-C	**33NR68**
Ratcheting Wrench, Reversing, SAE Size 1/4 - 5/16", 25° Offset	Imperial	127-CO	**36J604**
Ratcheting Wrench, Square, Reversing, 1/4, 3/8, 3/16, 5/16"	Imperial	127-C	**33NR69**
L. Fin Combs			
Fin Comb, All Fin Sizes	Supco	UFC1	**407L17**
Fin Comb, Heavy-Duty Bicycle Grip Handle, Fits All	DiversiTech	T-300	**2YJ78**
Kit: 1 Handle & 6 Heads, Fits 13,15,16,17,18, and 20 Fins per Inch	DiversiTech	T-101	**2YJ77**
Kit: 1 Handle & 6 Heads, Fits 8,9,10,11,12, and 14 Fins per Inch	DiversiTech	T-100	**2YJ76**
Kit: 6 Fins, Fits 8 to 20 Fins per Inch	Yellow Jacket	61158	**29AU42**
M. Drain Cleaning Gun			
Drain Cleaning Gun	Dayton	491A19	**491A19**
Replacement CO_2 Cartridges, Pkg. Qty. 12	Dayton	491A20	**491A20**
N. Miscellaneous Service Tools			
Condensate Drain Valve	Supco	JV1B	**35PT84**
Fan Blade Pitch Gauge	Dayton	—	**2PYL9**
Filter Puller, 8"	Supco	FP18	**35PT88**
Filter Puller, 48"	Supco	FP48	**48XL60**
Flame Sensor Cleaner	Supco	FSC10	**48XL62**
Fan Blade/Wheel Puller, Fan & Wheel; Incl. 4 Jaws, Plastic Centering Sleeve, Hardened Bolt, 4 Locking Bolts, Instructions	Dayton	—	**2PYL8**
Hybrid Jumper	Supco	HYB1YL	**48XL61**

Coil Cleaners

Nu-Calgon

Description	Size	Mfr. Model	Item No.
Condenser Cleaners			
Alka-Brite Plus®, Alkaline Foaming	1 gal.	4120-08	**1ANJ5**
Cal-Blast, Aerosol No-Rinse Solvent	20 oz.	4132-20	**20LP96**
CalClean, Alkaline	2.5 gal.	4135-06	**22NV40**
Green Select Cal-Green, EPA Safer Choice	1 gal.	4190-08	**3CFP2**
Nu-Blast®, Aerosol, No-Rinse Solvent	18 oz.	4290-75	**2RZW5**
Nu-Brite®, Aerosol Alkaline, USDA	18 oz.	4291-18	**1ANJ2**
Nu-Brite®, Alkaline Foaming, USDA	1 gal.	4291-08	**1ANG9**
	2.5 gal.	4291-05	**1ANJ1**
TriClean 2x, Alkaline	1 qt.	4372-24	**22NV39**
Tri-Pow'r HD, Alkaline Indoor/Outdoor	1 gal.	4371-88	**22NV38**
Evaporator Cleaners			
Evap Foam-No-Rinse®, Aerosol Foaming, No-Rinse	18 oz.	4171-75	**1ANJ6**
Evap-Fresh®, Disinfectant, No-Rinse, EPA Registered Aerosol	18 oz.	4166-75	**2RZW3**
Evap-Fresh®, Disinfectant, No-Rinse, EPA Registered	1 gal.	4166-08	**2RZW2**
Evap Pow'r-C®, Alkaline, No-Rinse	1 gal.	4168-08	**1ANJ3**
	2.5 gal.	4168-05	**1ANJ4**
Green Select Evap-Green, EPA Safer Choice No-Rinse	1 gal.	4191-08	**3CFP3**
Condenser or Evaporator Cleaners			
Blackhawk™ Expanding Foam, Aerosol, NSF	18 oz.	4127-75	**40TC84**
Cal-Brite, Acid	1 gal.	4133-08	**20LP90**
Special HD CalClean®, Alkaline Detergent, USDA	1 gal.	4143-08	**3CFR6**
	2.5 gal.	4143-06	**20LP91**
Accessories			
Coil Gun® Sprayer	2 qt.	4774-0	**1ANU1**
Coil Gun Probe		4774-1	**40TC91**


No. 22NV40


No. 1ANG9


No. 1ANJ6


No. 1ANU1

Ice Machine Cleaners

Nu-Calgon


No. 22NV29

Description	Size	Mfr. Model	Item No.
Nickel Safe, Food Grade, 1 gal.	1 gal.	4287-08	**22NV29**
Nickel Safe, Food Grade, 16 oz.	16 oz.	4287-34	**3CFP9**
IMS-III Sanitizer, EPA Registered	16 oz.	4211-34	**45YY10**
Liquid Cleaner, Food Grade	8 oz.	4207-47	**22NV27**
	1 gal.	4207-08	**22NV28**

Foaming Coil Cleaner

simple green® Nu-Calgon

Nonflammable, biodegradable, and quickly removes dirt, grime, and grease. Foaming action is ideal for hard-to-reach areas. NSF C1 and P1 Registered, except No. 410X95.


No. 45JE32

Description	Size	Brand	Mfr. Model	Item No.
Alkaline, Liquid, Self-Rinsing Formula	1 gal.	Simple Green	0180100404001	**45JE32**
	5 gal.	Simple Green	0180100104005	**45JE33**
	55 gal.	Simple Green	0180100104055	**45JE34**
Alkaline, Liquid, Foaming and Brightening. Not For Use on Evaporator Coils.	1 gal.	Nu-Calgon	4178-08	**410X95**
Alkaline, Aerosol, Foaming	20 oz.	Simple Green	0110001213418	**19ZN60**

SPEEDCLEAN

Portable Coil and Tube Cleaning Systems

These compact, easy-to-use cleaning systems save time and increase system efficiency. Models are designed to clean coils up to 8 inches thick, shell and tube condensers, and straight-tubed heat exchangers.


No. 38G224


No. 29JA08

Description	Includes	GPM	Volts/ Phase	Hose Dim.	Net Weight	Mfr. Model	Item No.
Cleaning Systems							
CoilJet® Rechargeable Battery-Operated Coil Washer, 125 psi, Self-Contained, Integrated 3.375 gal. Water Tank & 1.75 qt. Chemical Tank	(2) Spray Nozzles, Battery, Charger & Shoulder Strap	0.6	12VDC	¼" x 10 Ft	23 lb.	CJ-125	**38G224**
CoilJet®-200E Electric-Powered Coil Washer, 200 psi, Continuous Water Supply Option, Integrated 3.375 gal. Water Tank & 1.75 qt. Chemical Tank, 15 ft. Cord	(2) Spray Nozzles, 15 ft. GFCI Power Cord, Shoulder Strap	0.5	115	¼" x 10 ft.	20 lb.	CJ-200e	**52WX07**
FlowJet™ Electric Coil Cleaning System, 400 psi, 25 ft. Cord	Hose, Spray Gun with Lance, (2) Nozzles	2.5	115/1	½" x 12 ft.	35 lb.	FLOWJET-60	**29JA08**
Electric Heat Exchanger Tube Cleaner, Nylon-Cased Shaft with Reversible Rotation, 20 ft. Cord	Reversible Foot Pedal	2.5	115/1	—	38 lb.	SC-TC-60	**409X75**

Description	Type	Max. Flow (gpm)	Mfr. Model	Item No.
CoilJet® Cleaning Accessories				
Condenser Needle™ Cleaning Wand, 150 psi Max.	36"L 90° Fan Spray	3.5	CN-03	**5AEW2**
Spray Wand, 200 psi Max.	36"L 90°	0.5	8945	**5AEU4**
	48"L 90°	0.5	8945-48	**5AEU5**
Stainless Steel 3-ft. Sectional Wand, 200 psi Max.	90° Fan Spray	0.5	CJ-WWSS	**5AEW0**
Extension for 5AEW0 Wand, 150 psi Max.	16"L	0.5	CJ-WWSS-EXT	**5AEW1**
Foaming Nozzle Assembly, 150 psi Max.	—	0.5	CJ-9619	**5AEU8**
Lance Assembly, 4000 psi Max.	24" Extension	4	CJ-9656	**5AEW4**
	36" Extension	4	CJ-9657	**5AEU9**
CoilJet® Battery & Charger, 12VDC, For No. 38G224				
Sealed Lead Acid Battery	—	—	CJ-9613	**29JA02**
Spare Battery Kit	Low Maintenance, Rechargeable	—	CJ125-KIT-SB	**29JA01**
External Battery Charger	Smart Charger	—	CJ2-24	**29JA03**


No. 5AEW2

No. 5AEV7

Size	Mfr. Model	Pkg. Qty.	Item No.
SpeedyFoam® Biodegradable Foaming Coil Cleaner			
1 gal.	SC-FCC-1	1	**5AEV7**
(4) 1 gal. Containers	SC-FCC-4X1	4	**5AEV8**
5 gal.	SC-FCC-5	1	**5AEV9**

Portable Scale Removal Systems

GOODWAY SPEEDCLEAN

Systems clean heat exchangers and other closed-loop systems to improve efficiency and extend the life of your equipment. Designed with acid-proof components, units safely contain chemicals to minimize fumes, splashes, and risk to operator safety. Hands-free models monitor pH levels and inject additional chemicals as needed.


No. 52WU87


No. 52WU85

Description	Includes	Flow (gpm)	Tank Size	Motor Size	Voltage	Amps	Cord Length	Net Weight	Mfr. Model	Item No.
Goodway										
For Smaller Heat Exchangers, Compressors, Coolers, 50 Tons & Smaller	Tank, (2) 10 ft. Circulation Hoses with Multiple Fittings, Flow Reversal Valve	15	10 gal.	½ HP	115	7.6	18 ft.	37 lb.	GDS-C40	**52WU87**
For Boilers, Chillers, Large Heat Exchangers, 50 Tons & Larger		21	15 gal.	¾ HP	115	8.6	18 ft.	50 lb.	GDS-C92	**52WU88**
		21	15 gal.	¾ HP	230	4.3	18 ft.	50 lb.	GDS-C92A	**52WU89** *
Hands-Free Operation, For Boilers, Chillers, Large Heat Exchangers, 50 Tons & Larger	Venting Drum, (2) 15 ft. Circulation Hoses, pH Probe, Monitoring System	30	15 gal.	¾ HP	115	11.0	21 ft.	125 lb.	GDS-15-PH	**52WU85**
		30	15 gal.	¾ HP	230	5.5	21 ft.	125 lb.	GDS-15-PH-A	**52WU86** *

Description	Brand	Mfr. Model	Item No.
Descaling Solutions, 5-gal. Container†			
ScaleBreak, Biodegradable, For Steel, Iron, Brass, Copper, Plastic, Rubber	Goodway	SCALEBREAK-5	**490W72**
ScaleBreak-SS, Biodegradable, For Steel, Stainless Steel, Iron, Brass, Copper, Plastic, Rubber	Goodway	SCALEBRK-SS-5	**490W77**
SpeedyBright (Potable Water Applications), For Steel, Stainless Steel, Iron, Brass, Copper, Plastic, Rubber	SpeedClean	SPDYBRT-05	**490W81**


No. 490W72

Requires 230V plug, comes standard with 3-wire pigtail. † Larger sizes available on Grainger.com®.

Scan. Order. Done.
Details on page A1.

A/C Drain Pan Treatments

Nu-Calgon DIVERSITECH®

Description	Size	Mfr. Model	Item No.
Nu-Calgon			
Gel Tabs™, Protects Against Clogs, Eliminates Odors	3 tons Tablets	4185-03	**3CFR4**
	5 tons Tablets	4185-05	**3CFR5**
	15-ton Tab	4185-15	**22NV43**
	20-ton Tab	4185-20	**22NV42**
Pan-Treat®, Controls Odors, Prevents Overflows & Water Damage	Bottle	4296-60	**22NV26**
PanPads®, Controls Slime Build-up, Bacteria & Odors	1 Pad, 5-ton	4295-34	**22NV60**
	1 Pad, 15-ton	4296-24	**22NV61**
PurCool® Green Strip, Prevents Slime, Sludge & Odors	1 Mini Strip, 5-ton	61044	**40TC93**
	1 Strip, 10-ton	61045	**40TC94**
	1 Strip, 30-ton	61046	**40TC95**
PurCool® Green Tablet, Prevents Slime, Sludge & Odors	5-ton Tab	61051	**40TC96**
Drain Sucker™ Kit, Clears Clogged Pans From Inside or Outside		61308	**20LP94**
Diversitech®			
Flow-Plus™, Controls Slime, Maintains Flow, Biodegradable	10 oz. Tub	FLOW-PLUS-10	**3HAH3**
	1.25 lb. Tub	FLOW-PLUS-125	**3HAH2**



No. 3CFR4

Nu-Calgon

Freez-Kontr'l® Antifreeze

Blue color aids in leak detection. Ideal for hydronic, chilled water, and other closed systems.

Description	Size	Mfr. Model	Item No.
Freez-Kontr'l®, 70% Propylene Glycol	1 gal.	4188-07	**20LP86**
	5 gal.	4188-05	**20LP85**
	55 gal.	4188-02	**20LP87**
Freez-Kontr'l® 95/5, 95% Propylene Glycol, USDA	5 gal.	4188-06	**45YY09**
	55 gal.	4188-03	**45YY08**
Glycometer™ Glycol Refractometer Kit		61301	**40TD02**



No. 20LP86

Nu-Calgon YELLOW JACKET

Refrigeration Lubricants and Oils

Emkarate® RL Polyol Ester Lubricants— OEM approved, including Copeland approved RL32-3MAF. Designed for CFC, HCFC, and HFC applications; compatible with mineral oils, alkylbenzenes and PAGs.

Viscosity (ISO)	Viscosity (SUS @ 100°F)	Container Size	Brand	Mfr. Model	Item No.
Emkarate® RL Polyol Ester Lubricants					
32-3MAF	150	1 qt.	Nu-Calgon	4314-64	**22NV53**
32-3MAF	150	1 gal.		4314-66	**22NV54**
32H	150	1 qt.		4314-44	**22NV55**
32H	150	1 gal.		4314-46	**22NV56**
68H	300	1 qt.		4316-44	**22NV57**
68H	300	1 gal.		4316-46	**22NV58**
68H	300	5 gal.		4316-45	**22NV59**
Zerol® Alkylbenzene Refrigeration Oil					
32	150	1 gal.	Nu-Calgon	4310-07	**22NV50**
46	200	1 gal.		4308-07	**22NV51**
68	300	1 gal.		4311-07	**22NV52**
A/C Re-New Lubricant Additive					
—	—	4 oz.	Nu-Calgon	4057-55	**40TC82**
Mineral Oil					
32	150	1 gal.	Nu-Calgon	4303-07	**22NV46**
32	150	5 gal.		4303-05	**22NV47**
68	300	1 gal.		4304-07	**22NV48**
68	300	5 gal.		4304-05	**22NV49**
Accessories					
A/C Re-New Injector Tool			Nu-Calgon	4057-99	**40TC83**
Refrigeration Oil Analysis Kit				4996-0	**22NV62**
Refrigeration Oil Refractometer				4815-0	**22NV63**
Oil Pump				4814-40	**22NV64**
Oil Pump			Yellow Jacket	77930	**38D903**

No. 22NV46



Zerol® Alkylbenzene Refrigeration Oil— Excellent miscibility and compatibility with all CFC and HCFC refrigerants. OEM recommended for HCFC-based service blends. Great for retrofitting with R401b, R402b, and R123. No. 22NV51 is Copeland approved.

A/C Re-New Lubricant Additive—Quiets noisy compressors, improves heat transfer, and reduces energy consumption.

Mineral Oil—Naphthenic oils are OEM recommended for use with CFCs and HCFCs, and approved by Copeland and Carlyle.

SPECTROLINE® Nu-Calgon VIRGINIA HIGHSIDE CHEMICALS INC. GA GRAINGER APPROVED JB JUST BETTER

Refrigeration Service Test Kits, Chemicals, and Sealers



No. 3MRG1



No. 1ANJ9


No. 4PDF1



No. 13D664

Description	Size	Brand	Mfr. Model	Item No.
Acid Treatment and Neutralizers				
ACID-BUSTER® Injection Kit, Clear Yellow, Amber	(2) 0.52 oz. Cartridges	Spectroline	AB-100CS	**14A019**
ACID-BUSTER® , Clear Yellow, Amber	0.5 oz.	Spectroline	AB-5CS	**14A020**
RX-Acid Scavenger®, Internal, White, Liquid, Unpressurized	2 fl. oz.	Nu-Calgon	4301-02	**3CFP4**
RX-Acid Scavenger®, Internal, Clear, Pressurized Can	3.8 oz.	Nu-Calgon	4301-05	**40TC89**
Leak Detectors				
Cal Blue® Plus, Liquid Spray Bottle	1 qt.	Nu-Calgon	4182-24	**1ANJ8**
Cal Blue® LT, High Viscosity, Low Temp.	1 qt.	Nu-Calgon	4183-24	**2RZW4**
Fluorescent Gas Leak Detector, Gold	8 oz.	Nu-Calgon	4184-53	**3CFR3**
Liquid Gas Leak Locator	8 oz.	Parker-Virginia	GL6	**4E845**
Trax Bubble Leak Detector	12 oz.	Highside	HS24010	**30ZY94**
Scale Inhibitors, Removers				
Eco-Lyme™ Scale Remover, Clear	1 gal.	Nu-Calgon	4167-08	**40TC86**
Liquid Scale Dissolver, Reddish Orange	1 gal.	Nu-Calgon	4330-08	**22NV31**
	5 gal.	Nu-Calgon	4330-05	**22NV32**
Season Treat® Scale and Corrosion Inhibitor, White	5 lb.	Nu-Calgon	4364-88	**2RZW6**
Season Start Scale Remover, Powder, Purple/Tan	10 lb.	Nu-Calgon	4360-88	**22NV30**
Vital-Flo™ Scale Remover Kit for Tankless Water Heater, Black/Blue/White	2"W x 30-Ft.L x 1/8"T Roll	Nu-Calgon	4387-01	**40TC90**
Drain Cleaner				
Calci-Solve Descaler, Straw Color	1 gal.	Nu-Calgon	4134-08	**10C739**
Heat Sink Compound				
Cool Gel™ Heat Dissipating Spray	1 qt.	JB Industries	11509	**3MRG1**
Thermo-Trap® Heat-Sink Paste, Tan	11 oz.	Nu-Calgon	4371-36	**3CFP7**
Thermo-Trap® Heat-Sink Gel, Gray	1 qt.	Nu-Calgon	4371-32	**10C738**
Repair/Sealing Compound				
Leak Lock® Joint Sealing Compound	1.33 oz.	Highside	HS10001	**30ZY81**
	4 oz.	Highside	HS10004	**30ZY82**
Leak Lock® Gold Joint Sealing Compound	1 oz.	Highside	HS11001	**30ZY83**
	4 oz.	Highside	HS11004	**30ZY84**
Pan-Spray® Rubberized Coating, White	16 oz.	Nu-Calgon	4296-50	**1ANJ9**
Pan-Spray®, Rubberized Coating, Black	16 oz.	Nu-Calgon	4296-51	**20LP95**
Tape				
Butyl Rubber & Bituman, Black	30 ft. L x 2" W x 1/8" T	GA	4PDE9	**4PDE9**
Hi-Temp. Cork Tape, Tan	2"W x 30 ft.	Parker Virginia	PTH1	**29VN24**
Foam Tape, Black	2"W x 30 ft. L x 1/8"T	GA	4PDF1	**4PDF1**
Insulation Tape	2"W x 30-Ft.L x 1/8"T Roll	Parker Virginia	K502	**4E309**
Epoxy Sealer				
Laco® Heat-Seal Stik, Premixed Epoxy Sealer, Green	0.38 oz.	JB Industries	11575	**20HJ92**
Red Epoxy Metal Sealant Kit	0.50 oz.	Highside	HS12001	**30ZY85**
Sealing Gum				
Block, Non-Drying, Pliable, Water-Resistant, Gray	2 lb.	GA	4PDF4	**4PDF4**
Insulation Cord, 100 ft., Gray	100 ft.	GA	4PDF5	**4PDF5**
Sealing & Caulking Cords, White	3/8" x 25 ft.	Nu-Calgon	4216-27	**22NV37**
Sealing Gum	2 lb.	Parker Virginia	PP-22	**4E307**
	3/16" x 100 ft.	Parker Virginia	PP-33	**4E308**
Thumb-Tite™ Sealing Compound, White	2 lb.	Nu-Calgon	4216-92	**22NV36**
Insulating Sealants, Cleaner/Protectants, Penetrating Oil				
Nu-Foam® Expanding & Insulating Sealant, Aerosol, Beige	12 oz.	Nu-Calgon	4293-04	**40TC87**
A/C Shine® Compressor Surface Cleaner/Proctectant, Aerosol	12 oz.	Nu-Calgon	61118	**40TD01**
Penetrate HD® Super Penetrating Oil, Aerosol	12 oz.	Nu-Calgon	61105	**40TC99**
Refrigerant Leak Repair Kits				
A/C EasySeal-SS, Up to 1½ tons Systems		Nu-Calgon	4050-01	**13D662**
A/C EasySeal, 1½ to 5 tons Systems		Nu-Calgon	4050-06	**13D664**
A/C EasySeal, 1½ to 5 tons Systems, 2 Cans & Hose Kit		Nu-Calgon	4050-02	**13D663**
A/C EasySeal Direct Inject, Up to 5 tons System		Nu-Calgon	4050-08	**45JR91**
A/C EasySeal Direct Inject, Up to 5 tons System, Pk. 6		Nu-Calgon	4050-07	**45JR90**
A/C Piercing Valve & Hose, For Use With 4050-01, 4050-02, 4050-06		Nu-Calgon	4051-99	**13D665**
Cool Seal™ EZ-Ject™ Kit, Up to 4 tons Systems		Spectroline	CS-100CS	**34GR08**
Cool Seal™ EZ-Ject™ Cartridge, Up to 2 tons Systems		Spectroline	CS-1CS	**34GR09**

Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)



No. 20LP88



No. 22NV33



No. 2RZW7

Nu-Calgon

Refrigeration System Flush Kits

Clean interior of coil lines in refrigeration or air conditioning systems after a compressor failure, burnout, or in R410 conversions.

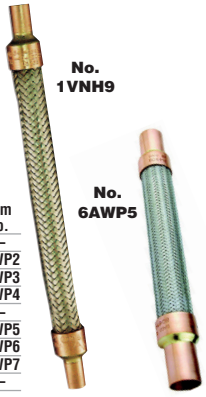
Description	Size	Mfr. Model	Item No.
Rx11-Flush® Liquid (Unpressurized) Starter Kit	Liquid, Tank, Hose, Gun	4300-38	20LP89
Rx11-Flush® Liquid (Unpressurized)	19.5 oz.	4300-30	20LP88
Rx11-Flush® Starter Kit	1 lb. Can, Hose, Gun, Valve	4300-08	22NV33
Rx11-Flush® (Pressurized)	1 lb.	4300-09	10C740
	2 lb.	4300-11	2RZW8
Rx11-Flush® (Pressurized) 2 Cans & 1 Injection Valve	(2) 2 lb.	4300-10	2RZW7
Flush Line Set Tool, For 4300-09		4300-50	2RZW9
Flush Injection Tool, For 4300-09		4300-89	12T749

VIRGINIA ★ GA GRAINGER APPROVED

Vibration Absorbers

Stainless steel hose and braid with solid copper sweat connections. Compatible with CFC, HCFC, and HFC refrigerants.

Connec. Size (in.)	Overall Length (in.)	Burst Pressure (psi)	Max. Working Pressure (psi)	VIRGINIA KMP Mfr. Model	VIRGINIA KMP Item No.	GA Mfr. Model	GA Item No.
⅜ in	8 ¼ in	2,625	650	VAB3SS	1VNH9	—	—
⅜ in	8 ½ in	2,625	650	—	—	—	6AWP2
½ in	9 in	2,625	650	VAB4SS	1VNJ1	—	6AWP3
⅝ in	9 ¾ in	2,500	650	VAB5SS	1VNJ2	—	6AWP4
⅞ in	11 ½ in	2,500	650	VAB7SS	1VNJ3	—	—
⅞ in	12 in	2,500	650	—	—	—	6AWP5
1 ⅛ in	13 in	2,500	600	VAB9SS	1VNJ4	—	6AWP6
1 ⅜ in	14 ¾ in	2,500	550	VAB11SS	1VNJ5	—	6AWP7
1 ⅝ in	17 in	2,000	510	VAB13SS	1VNJ6	—	—



No. 1VNH9

No. 6AWP5



No. 6X722

Parker ★ GA GRAINGER APPROVED

Sight Glass Moisture Indicators

Parker models have solid copper ends and are UL Listed for 650 psig strength. GA models have copper-plated steel ends.

Fitting Size	PARKER Mfr. Model	PARKER Item No.	GA Mfr. Model	GA Item No.
Sweat				
¼ x ¼	PSG-2S	6X722	—	6AWU2
⅜ x ⅜	PSG-3S	6X723	—	6AWU3
½ x ½	PSG-4S	4E924	—	6AWU4
⅝ x ⅝	PSG-5S	4E927	—	6AWU5
⅞ x ⅞	PSG-7S	4E928	—	6AWU6
Flare				
⅜M x ⅜F	PSG-3MF	6X720	—	—



No. 3ZG62



No. 4LFC4



No. 5DPW5



No. 52VN89 (Tank not included)

FORANE REFRIGERANTS ARKEMA

SUPERCOOL

ROBINAIR ★ GA GRAINGER APPROVED

Refrigerants

Each cylinder has a pressure relief device.

Note: The Federal Clean Air Act restricts the sale and use of CFC and HCFC refrigerants to technicians certified by an EPA-approved testing organization.

Refrigerant prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current market price.



No. 10U329

Description	Lubricant	Brand	Item No.
Stationary A/C			
R-22, Green 30 lb.	Mineral Oil, Alkyl Benzene, Polyester	Forane	2W198
R-407C, Brown 25 lb.	Polyol Ester	Forane	4LFC3
R-410A, Pink 25 lb.	Polyol Ester	Forane	3ZG62
R-427A, Green 25 lb.	Mineral Oil, Alkyl Benzene, Polyol Ester	Forane	4LFC4
Refrigeration			
R-134a, Blue 30 lb.	Polyol Ester	Forane	5E057
R-404A, Orange 24 lb.	Polyol Ester	Forane	6E862
R-407A, Green 25 lb.	Polyol Ester	Forane	4LFC2
R-408A, Purple 24 lb.	Mineral Oil, Alkyl Benzene, Polyol Ester	Forane	3L429
R-507A, Teal 25 lb.	Polyol Ester	Forane	6U580
Automotive			
R-134A, Automotive, Blue 30 lb.	Polyalkylene Glycol, Polyol Ester	Forane	1D220
134A, 12 oz. Can	—	Supercool	5DPW4
134A Plus Stop Leak, 12 oz. Can	—	Supercool	5DPW5
134A Plus Sealer, Leak Detector, & Performance Enhancer, 14 oz.	PAG	Supercool	5DPW6
134A Plus Sealer, Leak Detector, & Performance Enhancer, 19 oz.	PAG	Supercool	5DPW7

Description	Brand	Item No.
Accessories		
Refrigerant Tank Heater for 30 to 50 lb. Tanks	Robinair	52VN89
Side Can Tap w/ 2 Adapters, For Disposable Refrigerant Cylinders, Manual	GA	10U329

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**





No. 20HM48



No. 5AGZ8



No. 444H47

Copeland brand products
Embraco
SECOP
LG

Compressors

Note: For additional compressors including R-410A, see Grainger.com®.

Voltage	BtuH*	Base Mount L	Base Mount W	Line Connection Discharge I.D.	Line Connection Suction I.D.	Brand	Mfr. Model	Item No.
R22 1 Phase, Split System and Packaged AC Compressors								
208/230	15,500	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR16K5E-PFV-800	**20HM58**
208/230	16,300	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR16K6E-PFV-875	**20HM13**
208/230	18,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-PFV-875	**20HM14**
208/230	18,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR18K5E-PFV-800	**20HM59**
208/230	19,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR20K6E-PFV-875	**20HM17**
208/230	21,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-PFV-800	**20HM61**
208/230	22,100	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR22K6E-PFV-875	**20HM18**
208/230	24,500	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-PFV-875	**20HM19**
208/230	25,300	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR25K5E-PFV-800	**20HM64**
208/230	28,200	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-PFV-875	**20HM22**
208/230	28,400	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-PFV-800	**20HM67**
208/230	30,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR30K6E-PFV-875	**20HM25**
208/230	32,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-PFV-875	**20HM26**
208/230	32,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-PFV-800	**20HM71**
208/230	34,500	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR34K6E-PFV-875	**20HM29**
208/230	35,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-PFV-875	**20HM30**
208/230	38,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-PFV-800	**20HM75**
208/230	38,200	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-PFV-875	**20HM33**
208/230	41,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-PFV-875	**20HM36**
208/230	42,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-PFV-800	**20HM79**
208/230	47,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-PFV-970	**20HM39**
208/230	48,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-PFV-800	**20HM83**
208/230	53,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-PFV-970	**20HM42**
208/230	53,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-PFV-800	**20HM87**
208/230	61,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-PFV-970	**20HM45**
208/230	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-PFV-930	**20HM97**
208/230	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-PFV-950	**20HM98**
R22 3 Phase, Split System and Packaged AC Compressors								
200/230	17,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-TF5-875	**20HM15**
380/460	17,700	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-TFD-875	**20HM16**
200/230	21,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-TF5-800	**20HM62**
460	21,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-TFD-800	**20HM63**
200/230	24,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-TF5-875	**20HM20**
380/460	24,000	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-TFD-875	**20HM21**
200/230	25,300	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR25K5E-TF5-800	**20HM65**
460	25,300	7 ½ in	7 ½ in	½ in	¾ in	Copeland	S1-ZR25K5-TFD-800	**20HM66**
200/230	28,100	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-TF5-875	**20HM23**
460	28,100	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-TFD-875	**20HM24**
200/230	28,400	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-TF5-800	**20HM68**
460	28,400	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-TFD-800	**20HM69**
200/230	31,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-TF5-875	**20HM27**
460	31,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-TFD-875	**20HM28**
200/230	32,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TF5-800	**20HM72**
460	32,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TFD-800	**20HM73**
575	32,600	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TFE-800	**20HM74**
200/230	34,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-TF5-875	**20HM31**
460	34,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-TFD-875	**20HM32**
200/230	37,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-TF5-875	**20HM34**
380/460	37,900	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-TFD-875	**20HM35**
200/230	38,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TF5-800	**20HM76**
460	38,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TFD-800	**20HM77**
575	38,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TFE-800	**20HM78**
200/230	41,700	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-TF5-875	**20HM37**
460	41,700	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-TFD-875	**20HM38**
200/230	42,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TF5-800	**20HM80**
460	42,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TFD-800	**20HM81**
575	42,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TFE-800	**20HM82**
200/230	47,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-TF5-970	**20HM40**
380/460	47,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-TFD-970	**20HM41**
200/230	48,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TF5-800	**20HM84**
460	48,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TFD-800	**20HM85**
575	48,200	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TFE-800	**20HM86**

** Rated at 45°F evaporator, 130°F condenser, 95°F return, 115°F liquid, and 95°F ambient.*

Voltage	BtuH*	Base Mount L	Base Mount W	Line Connection Discharge I.D.	Line Connection Suction I.D.	Brand	Mfr. Model	Item No.
200/230	53,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-TF5-970	**20HM43**
380/460	53,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-TFD-970	**20HM44**
200/230	53,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TF5-800	**20HM88**
460	53,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TFD-800	**20HM89**
575	53,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TFE-800	**20HM90**
200/230	57,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TF5-830	**20HM93**
380/460	57,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TFD-930	**20HM94**
380/460	57,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TFD-950	**20HM95**
200/230	61,500	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-TF5-970	**20HM46**
380/460	61,500	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-TFD-970	**20HM47**
200/230	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TF5-930	**20HM99**
200/230	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TF5-950	**20HN01**
460	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFD-930	**20HN02**
460	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFD-950	**20HN03**
575	62,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFE-930	**20HN04**
200/230	70,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TF5-930	**20HN05**
200/230	70,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TF5-950	**20HN06**
460	70,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TFD-930	**20HN07**
575	70,000	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TFE-930	**20HN08**
200/230	73,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR72KCE-TF5-950	**20HN09**
460	73,500	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR72KCE-TFD-950	**20HN10**
200/230	82,000	7 ½ in	7 ½ in	¾ in	⅞ in	Copeland	ZR81KCE-TF5-950	**20HN11**
460	82,000	7 ½ in	7 ½ in	¾ in	⅞ in	Copeland	ZR81KCE-TFD-950	**20HN12**
200/230	85,500	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR84KCE-TF5-950	**20HN13**
460	85,500	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR84KCE-TFD-950	**20HN14**
575	89,000	8 21/32 in	8 21/32 in	⅞ in	1 ⅜ in	Copeland	ZR90K3E-TWE-961	**20HN17**
200/230	96,500	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TF5-950	**20HN18**
460	96,500	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TFD-950	**20HN19**
575	96,500	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TFE-950	**20HN20**
200/230	109,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TF5-950	**20HM48**
460	109,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TFD-950	**20HM49**
575	109,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TFE-950	**20HM50**
575	127,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TFE-950	**20HM53**
200/230	128,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TF5-950	**20HM51**
460	128,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TFD-950	**20HM52**
200/230	144,000	21 ½ in	7 ½ in	¾ in	1 ⅛ in	Copeland	ZRT144KCE-TF5-950	**20HN21**
460	144,000	21 ½ in	7 ½ in	¾ in	1 ⅛ in	Copeland	ZRT144KCE-TFD-950	**20HN22**
200/230	146,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TF5-950	**20HM54**
460	146,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TFD-950	**20HM55**
575	146,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TFE-950	**20HM56**
460	163,000	21 ½ in	7 ½ in	1 ⅛ in	1 ⅛ in	Copeland	ZRT162KCE-TFD-930	**20HN23**
460	190,000	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR190KCE-TFD-950	**20HM60**
200/230	191,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT188KCE-TF5-950	**20HN24**
460	191,500	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT188KCE-TFD-950	**20HN25**
575	191,500	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT188KCE-TFE-950	**20HN26**
200/230	252,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT250KCE-TF5-950	**20HN27**
460	252,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT250KCE-TFD-950	**20HN28**
575	252,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT250KCE-TFE-950	**20HN29**
200/230	319,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT320KCE-TW5-975	**20HN30**
460	319,000	19 ¾ in	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZRT320KCE-TWD-975	**20HN31**
R12 Refrigeration Compressors								
115	3,080	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF8.5BK	**5AGZ8**
115	3,240	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF10BX	**5AGZ9**
115	5,000	6 ½ in	4 in	¼ in	5/16 in	Embraco	FFI12BX1	**5AHA0**
R134A Refrigeration Compressors								
115	3,135	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF8.5HBK1	**5AHA2**
115	3,650	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF10HBX1	**5AHA3**
115	3,756	4 in	6 ½ in	¼ in	5/16 in	Secop	NF10FX-1	**48TP45**
115	4,400	4 in	6 ½ in	¼ in	5/16 in	Embraco	FFI10HBX	**48TP38**
115	4,726	4 in	6 ½ in	¼ in	5/16 in	Secop	NF11FX.2-1	**48TP46**
115	5,300	6 ½ in	4 in	¼ in	5/16 in	Embraco	FFI12HBX1	**5AHA1**
115	5,496	4 in	6 ½ in	¼ in	5/16 in	Secop	SC15G-1	**48TP47**
115	6,200	4 in	6 ½ in	¼ in	⅜ in	Secop	SC18G-1	**48TP48**
115	6,626	4 13/16 in	8 in	¼ in	⅜ in	Embraco	NT6215Z	**48TP40**
R410A 1 Phase A/C Compressors								
208/230	15,200	7 ½ in	7 ½ in	½ in	¾ in	LG	APB016KAA	**444H47**
208/230	15,500	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP16K5E-PFV-830	**40CH42**
208/230	20,000	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP20K5E-PFV-830	**40CH43**
208/230	20,500	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS20K4E-PFV-930	**40CH58**
208/230	21,300	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP21K5E-PFV-830	**40CH44**
208/230	22,500	7 ½ in	7 ½ in	½ in	¾ in	LG	APB024KAA	**444H49**
208/230	24,000	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP24K5E-PFV-830	**40CH45**
208/230	25,200	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP25K5E-PFV-830	**40CH46**
208/230	29,000	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP29K5E-PFV-830	**40CH47**
208/230	30,900	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS30K4E-PFV-930	**40CH59**
208/230	34,500	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP34K5E-PFV-830	**40CH49**
208/230	36,000	7 ½ in	7 ½ in	½ in	⅞ in	LG	AQA036KAA	**444H52**
208/230	39,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP39K5E-PFV-830	**40CH50**
208/230	41,200	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS40K5E-PFV-800	**40CH60**
208/230	42,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP42K5E-PFV-130	**40CH51**
208/230	49,400	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP49K5E-PFV-830	**40CH52**
208/230	51,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP51K5E-PFV-830	**40CH53**
208/230	52,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZPS51K4E-PFV-930	**40CH61**
208/230	54,000	7 ½ in	7 ½ in	½ in	⅞ in	LG	ABA054KAA	**444H55**
R410A 3 Phase A/C Compressors								
200/230	51,500	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP51K5E-TF5-830	**40CH54**
200/230	61,500	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP61KCE-TF5-950	**40CH55**
200/230	83,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP83KCE-TF5-950	**40CH56**
460	83,000	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP83KCE-TFD-950	**40CH57**
200/230	107,000	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT108K3E-TF5-950	**40CH62**
460	107,000	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT108K3E-TFD-950	**40CH63**
460	123,000	7 ½	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZP120KCE-TFD-950	**40CH41**
200/230	164,000	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT166KCE-TF5-950	**40CH64**
460	164,000	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT166KCE-TFD-950	**40CH65**
200/230	210,000	19 ¾	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZPT206KCE-TF5-975	**40CH66**
200/230	270,000	19 ¾	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZPT274KCE-TF5-975	**40CH67**
460	270,000	19 ¾	10 in	1 ⅜ in	1 ⅜ in	Copeland	ZPT274KCE-TFD-975	**40CH68**

Refrigeration Fittings and Repair Supplies

GA GRAINGER APPROVED

JB Industries—Access valves feature brass bodies and stainless steel/brass cores, and are machined according to ARI specifications. Tees are fully adjustable with extra-depth slip-fit braze cups; install anywhere along the line.



Connec. Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
¼" Access Valves				
3/16" ODS x ¼" or 3/8" ODF	JB Industries	A31720-G	**20W301**	5
3/16", ¼", 3/8" ODS	GA	4PDH4	**4PDH4**	6
¼" SAE M, ⅛" ODS x ¼" ODF	JB Industries	A31722	**3DXC1**	3
¼" SAE M, ⅛" ODS x 3/16", ¼", 5/16" ODF	JB Industries	A31736	**3DXC8**	3
¼" SAE M, ¼" ODS x 3/8" ODF	JB Industries	A31724	**3DXC3**	3
¼" SAE M x ¼ SAE F	JB Industries	A31614	**3DXA9**	5
¼" SAE M, 3/16" ODS x ¼" ODF	JB Industries	A31723	**3DXC2**	3
¼" SAE M, 3/8" ODS x ½" ODF	JB Industries	A31726	**3DXC4**	3
¼" SAE M, 3/16", ¼", 5/16", ½" ODF Step	JB Industries	A31729	**3DXC6**	3
½" ODS x 5/8" ODF	JB Industries	A31728	**35Y854**	3
¼" Access Valves, 90°				
¼" ODS x ⅛" MPT	JB Industries	A31492	**3DXA5**	3
5/16" ODS x ¼" MPT	JB Industries	A31494	**3DXA6**	3
5/8" ODS	JB Industries	A31160	**3DWZ3**	1
¾" ODS	JB Industries	A31162	**3DWZ4**	1
⅞" ODS	JB Industries	A31164	**3DWZ5**	1
¼" Access Valves, Branch Tee				
⅛" MPT Branch x ¼" SAE Run	JB Industries	A31452	**3DXA3**	3
¼" SAE Branch, ¼ SAE x ⅛" MPT Run	JB Industries	A31512	**3DXA7**	3
¼" SAE Branch, ¼ SAE x ¼" MPT Run	JB Industries	A31514	**3DXA8**	3
¼" MPT Branch x ¼" SAE Run	JB Industries	A31454	**3DXA4**	3
¼" Access Valves, Bulkhead Mount				
3/16", ¼" ODS, 3/8" ODF	JB Industries	A31727	**3DXC5**	1
¼" SAE Nut	JB Industries	A31434	**3DXA2**	1
¼" Access Valve, Coupler w/ Depresser				
¼" SAE Swivel Flare x ¼" MF	JB Industries	A33004	**3DXF3**	1
¼" Access Valves, Extension Tube				
⅛" OD, 3/16", ¼", 5/16" Step	JB Industries	A31009	**3DWY1**	3
⅛" OD	GA	4PDG9	**4PDG9**	6
	JB Industries	A31002-G	**20W296**	5
3/16" OD, ¼", 3/8" Step	JB Industries	A31011	**3DWY2**	3
3/16" OD	GA	4PDH1	**4PDH1**	6
3/16" OD x ⅛" ID	JB Industries	A31003-G	**20W297**	5
¼" OD	GA	4PDH2	**4PDH2**	6
¼" OD X 3/16" ID	JB Industries	A31004-G	**20W298**	5
¼"	JB Industries	A31004-100	**35Y852**	100
5/16" OD, ¼' ID	JB Industries	A31005	**3AXG2**	5
3/8"OD	GA	4PDH3	**4PDH3**	6
3/8" OD x 5/16 ID	JB Industries	A31006-G	**20W299**	5
½" OD	JB Industries	A31008	**3AXG3**	3
¼" Access Valves, Swaged Tee				
5/8" OD	JB Industries	A31336	**3DWZ8**	3
½" OD	JB Industries	A31338	**3DWZ9**	3
⅞" OD	JB Industries	A31344	**3DXA1**	1
¼" Access Valves, Tee				
¼" ODS x 5/16" ODF	JB Industries	A31134	**3DWY3**	3
	JB Industries	A31155	**3DWZ2**	2
5/16" ODS x 3/8" ODF	JB Industries	A31135	**3DWY4**	3
3/8" ODS x ½" ODF	JB Industries	A31136	**3DWY5**	3
	JB Industries	A31236	**3DWZ7**	3
½" ODS	JB Industries	A31138	**3DWY6**	3
5/8" ODS	JB Industries	A31140	**3DWY7**	1
¾" ODS	JB Industries	A31142	**3DWY8**	1
⅞" ODS	JB Industries	A31144	**3DWY9**	1
1⅛" ODS	JB Industries	A31148	**3DWZ1**	1

Connec. Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
¼" Access Valves, Tee with Flare Nut				
¼" SAE M Run x ¼" Flare Nut Branch	JB Industries	A31852	**3AXF6**	3
¼" SAE M Branch x 3/8 SAE M x 3/8" SAE F Run	JB Industries	A31853	**3DXC9**	1
¼" SAE M x ¼" SAE M Run x ¼" SAE F Branch	JB Industries	A31854	**3DXD1**	3
¼" SAE M x ¼" SAE F Run x ¼" SAE M Branch	JB Industries	A31864	**3DXD2**	3
¼" SAE M x ¼" Flare Nut Run x ¼" SAE M Branch	GA	4PDJ2	**4PDJ2**	6
	JB Industries	A31851-G	**20W308**	3
¼" Access Valve with Flare Nut				
¼" SAE M x ¼" SAE F Flare	JB Industries	A31734	**3DXC7**	3
¼ SAE M x ¼" M Flare w/ Nut	JB Industries	A31444	**35Y865**	3
¼" Access Valves, Union				
¼" SAE M x ⅛" MPT	GA	4PDH9	**4PDH9**	6
¼" SAE M x ⅛ MPT	JB Industries	A31482-G	**20W306**	5
¼" SAE M x ¼" MPT	GA	4PDJ1	**4PDJ1**	6
¼" SAE M x ¼ MPT	JB Industries	A31484-G	**20W307**	5
¼" Access Valves, Union Tee				
¼" OD x ¼" Slip Fit	GA	4PDH5	**4PDH5**	2
	JB Industries	A31199-G	**20W302**	2
3/8" OD x 3/8" Slip Fit	GA	4PDH6	**4PDH6**	2
	JB Industries	A31200-G	**20W303**	2
½" OD x ½" Slip Fit	GA	4PDH7	**4PDH7**	2
	JB Industries	A31201-G	**20W304**	2
5/8" OD x 5/8" Slip Fit	GA	4PDH8	**4PDH8**	2
	JB Industries	A31202-G	**20W305**	2
⅞" OD x ⅞" Slip Fit	JB Industries	A31204	**3DWZ6**	2
¼" Swivel FE Flare x Solder Adapter				
¼" x ¼"	JB Industries	A32700	**3DXD8**	4
3/8" x 3/8"	JB Industries	A32701	**3DXD9**	4
½" x ½"	JB Industries	A32702	**3DXE1**	4
5/8" x 5/8"	JB Industries	A32703	**3DXE2**	2
¾" x ¾"	JB Industries	A32704	**3DXE3**	2
¼" Swivel Cylinder Valves				
¾" NPS x ¼" SAE MF	JB Industries	CV-20004	**3DXF6**	1
¾" NPS x 3/8" SAE MF	JB Industries	CV-20006	**3DXF7**	1
¼" SAE Cap with Gasket				
¼"	JB Industries	A31992	**3DXD4**	5
	JB Industries	A31985	**3DXG2**	10
3/8" SAE Cap with Gasket				
3/8"	JB Industries	NFT5-6	**3DXG3**	3
¼" SAE Cap with Gasket & Core Remover				
¼"	JB Industries	A31997	**3DXD5**	10
¼" Valve Cores				
—	JB Industries	A31999-G	**20W309**	5
	GA	4PDJ3	**4PDJ3**	10
	JB Industries	A31999-25	**20HJ93**	25
	JB Industries	A31999-100	**20HJ94**	100
½" Valve Cores with Caps				
½"	JB Coremax	CM-VC003	**415F96**	3
	JB Coremax	CM-VC010	**415F97**	10
	JB Coremax	CM-VC100	**415F98**	100
J. Access & Service Valves				
Kit: Valves, Valve Core Tool, Cores, Plastic Core Remover	JB Industries	AVK-001	**36P062**	1
Repair Parts				
Cap Gasket	JB Industries	P509	**3DXG4**	6
Depressor	JB Industries	P90513	**3DXG5**	5

Liquid and Suction Line Filter Dryers

For use with all CFC, HCFC, and HFC refrigerants.

Copper—High moisture/acid capacity, solid core, and large flow capacity. No. 6X525 has grooved ends for easy breakoff to activate dryer. Compatible with mineral oils and polyol ester oils (POEs).

Steel—Powder-coated shell withstands 500-hr. salt spray test. SAE flare fittings are nickel plated. Solder connections are 100% copper.



Description	Connec. Size (in.)	R-22 Cap. (tons)	Mfr. Model	Item No.
Liquid Line Filter Dryers				
Copper, Solder				
Directional Flow	¼ - 5/16	2	620	**6X590**
w/ Charging Valve	¼	½	619	**6X524**
Economy	¼	½	MMS-100	**6X527** *
	5/16 - ⅜	1	MMS-200	**6X591**
General Purpose	¼	½	712	**6X525**
Heavy Duty	5/16	2	319	**6X526**
Non Directional Flow	¼	½	MMS-80	**6X528**
Solid Core	⅜	6	CuLLD16-3S	**1ZRJ6**
Steel, Bi Flow, Liquid Line, Sweat				
Desiccant Capacity 16 cu. in.	⅜	5	5SSBF3S	**54PR63**
Desiccant Capacity 8 cu. in.	⅜	3	3SSBF3S	**54PR62**
Steel, Bi Flow, Solder				
Heat Pump Application	⅜	8	BF-163S	**3A653**
	⅜	3½	BF-083S	**3A648**
	½	8	BF-164S	**3A655**
	½	3½	BF-084S	**3A650**

Description	Connec. Size (in.)	R-22 Cap. (tons)	Mfr. Model	Item No.
Steel, SAE Flare				
100 % Molecular Sieve	¼	1	LLD-032	**6X505**
	⅜	8	303	**6X513**
	½	10	304	**6X514**
	⅝	10	305	**6X515**
	⅝	15	415	**1A524**
75/25 Dessicant Blend	¼	1½	LLD - 082	**6X508**
	¼	3½	LLD - 052	**6X506**
	⅜	2	LLD - 053	**6X507**
	⅜	3	LLD - 163	**6X511**
	⅜	5	LLD - 083	**6X509**
	½	7	LLD - 084	**6X510**
	½	7	LLD - 164	**6X512**
	⅝	10	165	**4E932**
Steel, Solder				
100 % Molecular Sieve	¼	1	LLD-032S	**6X579** †
	⅜	8	303S	**6X587**
	½	10	304S	**6X588**
	⅞	10	307S	**4E934**
100 % Molecular Sieve, Solid Core, Rated 650 PSIG, High Filtration Capacity	⅜	2	2SS3S	**45KJ88**
	⅜	3	3SS3S	**45KJ89**
	⅜	5	5SS3S	**45KJ90**

Description	Connec. Size (in.)	R-22 Cap. (tons)	Mfr. Model	Item No.
75/25 Dessicant Blend	¼	2	LLD - 052S	**6X580**
	¼	1½	LLD - 082S	**6X582**
	⅜	2	LLD - 053S	**6X581**
	⅜	5	LLD - 083S	**6X583**
	⅜	6	LLD - 163S	**6X585**
	½	7	LLD - 084S	**6X584**
	½	7	LLD - 164S	**6X586**
	⅝	10	165S	**4E933**
Sweat, ODF				
Solid Molded Desiccant Core, 650 PSIG	¾	20	LLD-606S	**463L45**
	⅞	20	LLD-607S	**463L46**
	1⅛	20	LLD-609S	**463L47**
Steel Shell Suction Line Filter Dryers				
With Inlet and Outlet Access Valves, Solder				
High Acid Capacity	⅝	4½	SLD-13-5SV-HH	**6X518**
	¾	7	SLD-13-6SV-HH	**6X519**
	⅞	7	SLD-13-7SV-HH	**3A660**
	1⅛	7½	SLD-13-9SV-HH	**3A661**
With Single Access Valve, Solder				
High Acid Capacity	⅜	1½	SLD-8-3SV-HH	**3A656**
	½	2½	SLD-8-4SV-HH	**3A657**
	⅝	4	SLD-8-5SV-HH	**4X858**
	¾	4½	SLD-8-6SV-HH	**3A658**
	⅞	10	SLD-27-7SV-HH	**6X520**
	1⅛	13	SLD-27-9SV-HH	**6X521**

** No. 6X527 is sold as each in store, shipped in pkg. of 3.*
† Includes charging valve.



No. 40G386



No. 2FBP9

Johnson Controls · RANCO · Supco · GRAINGER APPROVED

Refrigerant Pressure Controls

- SPST, except where noted

DUAL-PRESSURE CONTROLS

Combine high-pressure compressor protection with low-pressure, cycling, or safety functions.

For R-12, R-22, R-134A, and R-502.

Johnson Controls—Visible pressure scale. Adjustable through the range without removing cover. Manual reset models are trip-free. P170 models require armored capillary tubes; see Grainger.com®.

SINGLE-PRESSURE CONTROLS

For R-12, R-22, R-134A, and R-502. Nos. 40G337, 40G338, 40G344, 40G388, 40G389, 40G399, and 40G404 are compatible with R-410A.

Low Pressure—Protect compressors against loss of refrigerant. Also used to cycle compressors in commercial refrigeration applications.

High Pressure—Protect compressors from excessive system pressure.

NONADJUSTABLE PRESSURE SWITCHES

- Automatic reset, except where noted
- Bursting pressure: 5000 psi

Snap-acting sensor. ¼" female SAE connection. 24/120/240V. Nos. 40G327, 40G323, 2HYV5, 2HYV6, and 2HYV7 are compatible with R-410A.

Low Pressure (psig) * Range (in.)	Diff.	High Pressure (psig) Range (in.)	Diff.	Reset Low	Reset High	Pressure Connec.	Brand	Mfr. Model	Item No.
Dual Pressure Controls									
12" Hg to 80	5 to 35	100 to 500	55	Auto	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70LB-6C	**40G407**
12" Hg to 80	5 to 35	100 to 500	65	Auto	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70MA-18C	**40G408**
12" Hg to 80	5 to 35	100 to 500	55	Auto	Convertible	36" Capillary with ¼" Flare Nut	Johnson Controls	P70SA-1C	**40G412** #
12" Hg to 80	5 to 35	100 to 500	55	Auto	Auto	¼" Male Flare	Johnson Controls	P170LB-6C	**40G347**
12" Hg to 80	5 to 35	100 to 500	55	Auto	Manual	¼" Male Flare	Johnson Controls	P170MA-18C	**20XH84**
12" Hg to 80	5 to 35	100 to 500	55	Auto	Convertible	¼" Male Flare	Johnson Controls	P170SA-1C	**40G349** #
20" Hg to 100	7	100 to 500	55	Manual	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70NA-1C	**40G411**
20" Hg to 100	7 to 50	100 to 500	55	Auto	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70MA-2C	**40G410**
20" Hg to 100	7 to 50	100 to 500	—	Manual	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P72MA-1C	**40G414** †
20" Hg to 100	7 to 50	100 to 500	55	Auto	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70LB-1C	**40G406**
20" Hg to 100	7 to 50	100 to 500	55	Auto	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70MA-1C	**40G409**
20" Hg to 100	7 to 50	100 to 500	55	Auto	Auto	¼" Male Flare	Johnson Controls	P170LB-1C	**40G346**
20" Hg to 100	7 to 50	100 to 500	55	Auto	Manual	¼" Male Flare	Johnson Controls	P170MA-1C	**40G348**
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto	36" Capillary	Ranco	012-1549	**2E989**
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto/Man	48" Capillary	Ranco	012-4834	**2E990**
10 to 100	10 Fixed	150 to 450	70 Fixed	Manual	Manual	Color Coded ¼ inch Flare Nuts	Ranco	o12-1594	**12Z407**
12 to 50	5 to 35	100 to 250	50 Fixed	Auto	Auto	36" Capillary	Ranco	012-1506	**2E986**
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto	36" Capillary	Ranco	012-1502	**2E987**
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto/Man	48" Capillary	Ranco	012-4833	**2E988**
Differential Pressure Controls									
8 to 70	8 to 30	—	—	Auto	—	36" Capillary with ¼" Flare Nut	Johnson Controls	P74BA-1C	**20XH85**
2 to 26	3.5 Fixed	—	—	Auto	—	36" Capillary with ¼" Flare Nut	Johnson Controls	P74EA-8C	**40G415** **
8 to 60	1.5 Fixed	—	—	Auto	—	¼" Male Flare	Johnson Controls	P74FA-1C	**40G416** **
8 to 60	1.5 Fixed	—	—	Auto	—	¼" Female NPT	Johnson Controls	P74FA-5C	**40G417** **
2 to 26	1.5 Fixed	—	—	Auto	—	36" Capillary with ¼" Flare Nut	Johnson Controls	P74FA-10C	**20XH86**

Range psi	Diff. Pressure (psi)	Reset	Pressure Connec.	Brand	Mfr. Model	Item No.
Single Pressure Controls						
Switch Opens on Low Pressure						
0 to 150	10 to 70	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70AA-2C	**40G388**
12" to 80	5 to 35	Auto	¼" Male SAE	Johnson Controls	P170AB-12C	**40G339**
12" to 80	5 to 35	Auto	¼" Flare Nut	Johnson Controls	P70AB-12C	**40G391**
20" to 100	2.2	Manual	¼" Male Flare	Johnson Controls	P29NC-2C	**40G360**
20" to 100	2.2	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P29NC-3C	**40G361**
20" to 100	7	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70BA-1C	**40G395**
20" to 100	7 to 50	Auto	¼" Male Flare	Johnson Controls	P170AB-2C	**40G340**
20" to 100	7 to 50	Auto	¼" Male Flare	Johnson Controls	P170CA-1C	**40G341**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70AA-5C	**40G390**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70AB-1C	**40G392**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70AB-2C	**40G393**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70AB-2CQ	**40G394**
50" to 300	20 to 120	Auto	48" Capillary with ¼" Flare Nut	Johnson Controls	P70AA-162C	**20RG54**
50 to 300	20 to 120	Auto	¼" Female NPT	Johnson Controls	P70AA-119C	**40G387**
50 to 500	60 to 150	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70CA-2C	**40G397**
100 to 400	35 to 200	Auto	¼" Flare Nut	Johnson Controls	P72AA-27C	**40G413** †
100 to 400	35 to 200	Auto	¼" Male SAE	Johnson Controls	P170AA-118C	**40G336**
100 to 400	35 to 200	Auto	¼" Flare Nut	Johnson Controls	P70AA-118C	**40G386**
100 to 470	35 to 200	Auto	¼" Male Flare	Johnson Controls	P170AA-400C	**40G338**
100 to 470	35 to 200	Auto	¼" Flare Nut	Johnson Controls	P70AA-400C	**40G389**
10" to 100	10 to 40	Auto	36" Capillary with ¼" Flare Nut	Ranco	O10-1483	**2E982**
12" to 50	5 to 35	Auto	¼" Male Flare	Ranco	O10-1401	**2E980**
12" to 50	5 to 35	Auto	36" Capillary with ¼" Flare Nut	Ranco	O10-1402	**2E981**
12" to 80	5 to 38	Auto	¼" Flare Nut	Ranco	o16-624	**12Z406**
100 to 400	40 to 150	Auto	36" Capillary with ¼" Flare Nut	Ranco	O10-2054	**2E983**
100 to 400	40 to 150	Auto	36" Capillary with Flare Nut	Ranco	O20-7006	**3XL03** †
0 to 650		Auto	¼" Female SAE	Supco	SLP75100	**4LWX9**
0 to 650		Auto	¼" Female SAE	Supco	SFC200240	**4LWY2**
0 to 150	10 to 70	Auto	¼" Male Flare	Johnson Controls	P170AA-2C	**40G337**
Switch Opens on High Pressure						
20" to 100	7 to 50	Auto	¼" Brass Female NPT	Johnson Controls	P70CA-61C	**20RG55**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70CA-4C	**40G401**
20" to 100	7 to 50	Auto	36" Capillary with ¼" Flare Nut	Johnson Controls	P70CA-1C	**40G396**
50 to 450	60	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70DA-2C	**40G403**
50 to 500	60	Manual	¼" Male Flare	Johnson Controls	P170KA-1C	**40G345** ‡
50 to 500	60	Manual	¼" Stainless Steel Female NPT	Johnson Controls	P70KA-7C	**20RG56**
50 to 500	60	Manual	¼" Male SAE	Johnson Controls	P170DA-1C	**40G343**
50 to 500	60	Manual	¼" Flare Nut	Johnson Controls	P70DA-1C	**40G402**
50 to 500	60	Manual	36" Capillary with ¼" Flare Nut	Johnson Controls	P70KA-1C	**40G405** ‡
50 to 500	60 to 150	Auto	¼" Flare Nut	Johnson Controls	P70CA-3C	**40G398**
50 to 500	60 to 150	Auto	¼" Male SAE	Johnson Controls	P170CA-3C	**40G342**
200 to 610	60	Manual	¼" Male SAE	Johnson Controls	P170DA-400C	**40G344**
200 to 610	60	Manual	¼" Flare Nut	Johnson Controls	P70DA-400C	**40G404**
200 to 610	60 to 150	Auto	¼" Male Flare	Johnson Controls	P170CA-400E	**2HYV3**
200 to 610	60 to 150	Auto	¼" Flare Nut	Johnson Controls	P70CA-400C	**40G399**
150 to 450	40 to 150	Auto	¼" Male Flare	Ranco	O11-1711	**2E985**
0 to 650		Auto	¼" Female SAE	Supco	SHP600475	**4LWY1**
Switch Opens on High/Low Pressure						
100 to 400	40 to 150	Auto	36" Capillary with Flare Nut	Ranco	O16-108	**2E984** **

Open (psi)	Close (psi)	Brand	Mfr. Model	Item No.
Nonadjustable Pressure Switches				
Switch Opens on Low Pressure				
5	20	Johnson Controls	P100AC-1C	**40G315**
10	32	Johnson Controls	P100AP-201C	**2HYV6**
15	30	Johnson Controls	P100AC-2C	**40G316**
35	60	Johnson Controls	P100AA-2C	**40G313**
35	60	Johnson Controls	P100AP-2C	**40G317**
40	70	Johnson Controls	P20EB-1C	**20RG50**
40	Lockout	Johnson Controls	P20BB-1C	**20RG48**
150	225	Johnson Controls	P100AA-3C	**40G314**
150	225	Johnson Controls	P100AP-3C	**40G318**
170	250	Johnson Controls	P100AP-4C	**40G319**
300	400	Johnson Controls	P100AP-332C	**2HYV5**
15	35	Supco	SLP1535	**2FBR6**
25	50	Supco	SLP2550	**2FBR7**
40	80	Supco	SLP4080	**2FBR8**
5	20	GA	—	**6ALA2**
10	25	GA	—	**6ALA3**
10	32	GA	—	**6ALC2**
25	65	GA	—	**6ALA4**
25	80	GA	—	**6ALA5**
35	60	GA	—	**6ALC3**
Switch Opens on High Pressure				
275	175	Johnson Controls	P100CC-9C	**20RG46**
350	Manual Reset	Johnson Controls	P100DA-35C	**40G326**
360	Lockout	Johnson Controls	P20GB-1C	**20RG52**
375	Manual Reset	Johnson Controls	P100DC-3C	**40G328**
400	300	Johnson Controls	P100CA-1C	**40G320**
400	300	Johnson Controls	P100CP-1C	**40G321**
400	324	Johnson Controls	P20EB-2C	**20RG51**
400	Lockout	Johnson Controls	P20DB-1C	**20RG49**
410	Manual Reset	Johnson Controls	P100DA-1C	**40G324**
425	325	Johnson Controls	P100CP-2C	**40G322**
425	325	Johnson Controls	P100CA-2C	**20RG45**
475	Manual Reset	Johnson Controls	P100DA-2C	**40G325**
575	Manual Reset	Johnson Controls	P100DA-86C	**40G327**
630	Manual Reset	Johnson Controls	P100DA-81C	**2HYV7**
665	565	Johnson Controls	P100CP-85C	**40G323**
350	250	Supco	SHP350250	**2FBP9**
375	265	Supco	SHP375265	**2FBR1**
400	200	Supco	SHP400200	**2FBR2**
400	300	Supco	SHP400300	**2FBR3**
425	300	Supco	SHP425300	**2FBR4**
450	250	Supco	SHP450250	**2FBR5**
200	150	GA	—	**6ALA7**
300	200	GA	—	**6ALC0**
410	—	GA	—	**6ALC4**

** Low pressure is measured (in vacuum) to psig. ** SPDT switch; 2-3 close on rise, 2-1 open on rise. # 2 SPDT switches. † DPST switch. ‡ 4-wire, 2-circuit.*



Parker

Refrigeration Solenoid Valves and Coils

All coils are ribbed coil design. Use PKC-1 coil models with valve models R12 through R26 and R52 through R56. Use PCK-2 coil models with valve models R32 through R46.

Connec. Type/ Size (in.)	R-410A Liquid Line Tons @ 5 psi	R-134A Liquid Line Tons @ 5 psi	Mfr. Model	Item No.
Valves				
Flare ¼	—	1.2	R16F32 SAE	**29AH08**
Flare ⅜	—	3.8	R26F63 SAE	**29AH13**
Sweat ¼	—	1.2	R16E32	**29AH09**
Sweat ⅜	—	1.2	R16E33	**29AH10**
Sweat ¼	0.98	0.56	R12E22	**29AH07**
	3.45	2.1	R22E52	**29AH11**
Sweat ⅜	3.45	2.1	R22E53	**29AH12**
	6.02	3.8	R26E63M	**29AH14**
Sweat ½	6.02	3.8	R26E64M	**29AH15**
Sweat ⅜	9.86	6.2	R32E93M	**29AH16**
Sweat ½	9.86	6.2	R32E94M	**29AH17**
	13.6	8.5	R36E104M	**29AH18**
Sweat ⅝	13.6	8.5	R36E105M	**29AH19**
Sweat ⅞	19.2	12	R38E147M	**29AH20**
Sweat ⅝	19.2	12	R38E145M	**35ML17**
	29.7	18.4	R42E195M	**29AH21**
Sweat ⅞	29.7	29.2	R42E197M	**11X601**
Sweat 1⅛	29.7	29.2	R42E199M	**11X602**
Sweat ⅞	50.6	49.9	R46E257M	**11X603**
Sweat 1⅛	50.6	49.9	R46E259M	**11X604**
	88.2	87.4	R52E359M	**11X605**
Sweat 1⅜	88.2	87.4	R52E3511M	**11X606**
Sweat 1⅝	156	96.9	R56E4313M	**36PR82**
Sweat 2⅛	156	96.9	R56E4317M	**36PR83**

Voltage	Watts	For Use With	Mfr. Model	Item No.
Operating Coils, 50/60 Hz				
24V AC	10 W	R52E359M, R52E3511M	PKC-1-24	**11X615**
	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-24	**11X618**
120/240V AC	10 W	Refrigeration	PKC-1-120/240	**35ML18**
	15 W	Solenoid Valves	PKC-2-120/240	**35ML19**
120VAC	10 W	R52E359M, R52E3511M	PKC-1-120	**11X616**
120V AC	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-120	**11X619**
208/240V AC	10 W	R52E359M, R52E3511M	PKC-1-208/240	**11X617**
	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-208/240	**11X620**

Johnson Controls

Water-Regulating Valves



- Max. water pressure: 150 psig (V146 models are 350 psig)
- Corrosion-resistant material

Direct-acting valves open on pressure increase to regulate the flow of water or glycol to water-cooled condenser refrigeration systems. Pressure-balanced, modulating valves provide precise control of head pressure on open or closed refrigeration systems. Valves can be repaired without removal or system pump-down. V47 models are temperature-activated.

Valves for High-Pressure Refrigerants—Are for use with R-410A refrigerant and require Armored Capillary Tube No. 40G423, sold separately this page.

Connec. Size (in.)	Connec.	Type	Design Pressure (psig)	Set Points	Mfr. Model	Item No.
⅜	NPT	2 Way	—	70 to 260	V46AA-1C	**40G447**
	NPT	2 Way	320	70 to 260	V46DA-2C	**40G455**
	NPT	2 Way	150	70 to 260	V46EA-3C	**20RG36**
	NPT	2 Way	320	115°F to 180°F	V47AA-1C	**40G456**
	NPT	2 Way	320	75°F to 135°F	V47AA-3C	**40G457**
½	NPT	2 Way	—	70 to 260	V46AB-1C	**40G448**
	NPT	2 Way	320	115°F to 180°F	V47AB-3C	**40G458**
	NPT	2 Way	320	75°F to 135°F	V47AB-5C	**40G459**
¾	NPT	2 Way	—	70 to 260	V46AC-1C	**40G449**
	NPT	2 Way	150	70 to 260	V46AC-26C	**20RG33**
	NPT	2 Way	150	70 to 260	V46BC-2C	**20RG34**
	NPT	2 Way	320	115°F to 180°F	V47AC-3C	**40G460**
	NPT	2 Way	150	70 to 260	V47AC-4C	**20RG37**
	NPT	2 Way	320	75°F to 135°F	V47AC-6C	**40G461**
	NPT	2 Way	150	75° to 135°F	V47AC-8C	**20RG38**
	NPT	2 Way	150	70 to 260	V48AC-2C	**20RG41**
1	NPT	2 Way	—	70 to 260	V46AD-1C	**40G450**
	NPT	2 Way	150	70 to 260	V47AD-2C	**20RG39**
1¼	NPT	2 Way	320	70 to 260	V46AE-1C	**40G451**
	NPT	2 Way	150	115 to 180	V47AE-2C	**20RG40**
1½	Flange	2 Way	320	70 to 260	V46AR-1C	**40G452**
	Flange	2 Way	150	70 to 260	V46BR-2C	**20RG35**
2	Flange	2 Way	320	160 to 260	V46AS-2C	**40G453**
2½	Flange	2 Way	320	160 to 260	V46AT-2C	**40G454**
Valves for High-Pressure Refrigerants						
⅜	NPT	2 Way	630	200 to 400	V246GA1-001C	**12Y955**
	NPT	2 Way	630	135 to 300 psi	V246NA1-001C	**35LZ05**
½	NPT	2 Way	630	200 to 400	V246GB1-001C	**12Y956**
	NPT	2 Way	630	135 to 300 psi	V246NB1-001C	**35LY99**
¾	Sweat	2 Way	630	200 to 400	V146GK1-001C	**40G437**
	NPT	2 Way	630	200 to 400	V246GC1-001C	**12Y957**
	NPT	2 Way	630	135 to 300 psi	V246NC1-001C	**35LZ04**
1	Sweat	2 Way	630	200 to 400	V146GL1-001C	**40G438**
	NPT	2 Way	630	200 to 400	V246GD1-001C	**12Y958**
	NPT	2 Way	630	135 to 300 psi	V246ND1-001C	**35LY98**
1¼	NPT	2 Way	630	200 to 400	V246GE1-001C	**40G441**
1½	Flange	2 Way	630	200 to 400	V246GR1-001C	**40G442**
2	Flange	2 Way	630	200 to 400 psig	V243GS-1C	**35LZ06**
	Flange	2 Way	630	200 to 400 psi	V246GS1-001C	**35LZ02**
	Flange	2 Way	630	200 to 400 psi	V246HS1-001C	**35LZ03**
2½	Flange	2 Way	630	200 to 400 psig	V243GT-1C	**35LZ07**
3	Flange	2 Way	630	200 to 400 psig	V243GV-1C	**35LZ08**
4	Flange	2 Way	630	200 to 400 psig	V243GW-1C	**35LZ09**
½	NPT	3 Way	630	200 to 400	V248GB1-001C	**12Y959**
¾	Sweat	3 Way	630	200 to 400	V148GK1-001C	**40G439**
	NPT	3 Way	630	200 to 400	V248GC1-001C	**12Y960**
1	Sweat	3 Way	630	200 to 400	V148GL1-001C	**40G440**
	NPT	3 Way	630	200 to 400	V248GD1-001C	**12Y961**
1¼	NPT	3 Way	630	200 to 400	V248GE1-001C	**40G446**
1½	NPT	3 Way	630	200 to 400 psi	V248GF1-001C	**35LZ01**



Johnson Controls

Armored Capillaries

- For use with ¼" male flare fitting connectors

Armored capillaries minimize pressure pulsation. Brass armor sleeve improves resistance to abrasion caused by vibration. UL and C-UL Recognized.

Note: Compatible with all common noncorrosive refrigerants.

L	Max. Working Pressure	Inside Dia.	Mfr. Model	Item No.
Breakaway Schrader™ Depressor in One End, 2 Straight Fittings				
18 in	600 psi	0.06 in	SEC99AA-18C	**20RG42**
24 in	600 psi	0.062 in	SEC99AA-24C	**40G422**
36 in	600 psi	0.062 in	SEC99AA-36C	**40G423**
48 in	600 psi	0.062 in	SEC99AA-48C	**40G424**
60 in	600 psi	0.06 in	SEC99AA-60C	**20RG43**
Breakaway Schrader™ Depressor in Both Ends, One Straight and One 90° Fitting				
18 in	600 psi	0.06 in	SEC99AB-18C	**40G425**
24 in	600 psi	0.06 in	SEC99AB-24C	**40G426**
36 in	600 psi	0.06 in	SEC99AB-36C	**40G427**
48 in	600 psi	0.06 in	SEC99AB-48C	**40G428**
60 in	600 psi	0.062 in	SEC99AB-60C	**40G429**
Without Breakaway Schrader™ Depressor, One Straight and One 90° Fitting				
18 in	600 psi	0.062 in	SEC99AD-18C	**40G430**
24 in	600 psi	0.062 in	SEC99AD-24C	**40G431**
36 in	600 psi	0.062 in	SEC99AD-36C	**40G432**
48 in	600 psi	0.06 in	SEC99AD-48C	**20RG44**

Output	Process Connec.	Range	Electrical Connections	Mfr. Model	Item No.
0 to 10V DC	⅛"-27 NPT External Thread	0 to 100 psi	Packard Connector	P599VAPS101C	**53CW45**
			Packard Connector	P599VCPS101C	**53CW51**
	¼ in SAE 45° Flare Internal Thread	0 to 500 psi	Packard Connector	P599VCPS105C	**53CW53**
			Packard Connector with 6½ ft Wiring Harness	P598VCPSN105K	**53CW66**
		0 to 750 psi	Packard Connector	P599VCPS107C	**53CW55**
0.5 to 4.5VDC	¼" SAE 45° Flare Internal Thread	0 to 200 psi	Packard Connector with 6 ½ ft Wiring Harness	P598RCPSN102K	**53CW97**
0.5 to 4.5V DC	⅛"-27 NPT External Thread	0 to 100 psi	Packard Connector with 6½ ft Wiring Harness	P599RAPS101K	**53CW27**
			Packard Connector with 6½ ft Wiring Harness	P598RAPSN101K	**53CW85**
		0 to 500 psi	Packard Connector	P599RAPS105C	**53CW30**
			Packard Connector with 6½ ft Wiring Harness	P598RAPSN105K	**53CW89**
		0 to 750 psi	Packard Connector	P599RAPS107C	**53CW32**
	¼ in SAE 45° Flare Internal Thread	0 to 100 psi	Packard Connector	P599RCPS101C	**53CW36**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN101K	**53CW95**
		0 to 200 psi	Packard Connector	P598RCPSN102C	**53CW96**
		0 to 500 psi	Packard Connector	P599RCPS105C	**53CW40**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN105K	**53CW99**
		0 to 750 psi	Packard Connector	P598RCPSN107C	**53CX01**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN107K	**53CX02**
4 to 20mA DC	⅛"-27 NPT External Thread	0 to 100 psi	Packard Connector	P599AAPS101C	**53CW12**
			Packard Connector with 6½ ft Wiring Harness	P598AAPSN101K	**53CW71**
	¼ in SAE 45° Flare Internal Thread	0 to 500 psi	Packard Connector	P598ACPSN105C	**53CW78**
		0 to 750 psi	Packard Connector	P599ACPS107C	**53CW22**
			Packard Connector with 6½ ft Wiring Harness	P598ACPSN107K	**53CW81**
13 ft Wiring Harness				WHA-PKD3-400C	**40G464**
6½ ft Wiring Harness				WHA-PKD3-200C	**40G463**



Johnson Controls

Electronic Pressure Transducers

Rugged, compact, direct-mount pressure transducers produce an analog signal based on the sensed pressure and are ideal for use in air conditioning and commercial refrigeration applications.

Johnson Controls RANCO

Oil Pressure Controls

- 120/240VAC
- Manual reset
- Built-in time delay relay

JOHNSON CONTROLS

For use with noncorrosive refrigerants.

P45 and P145 Series—Units are nonadjustable and provide dependable low-lube oil pressure; factory set per manufacturer's specs. P145 models require armored capillary tubes (see page 3017).

P28 and P128 Series—Provide dependable cut-out for pressure-lubricated refrigeration compressors. Field-adjustable pressure differential per manufacturer's specs. P128 models require armored capillary tubes (see page 3017).

P545 Series—Electronic controls lock out compressor if lube oil pressure falls below manufacturer's recommended net pressure. For use on refrigeration compressors equipped with oil pumps that accept single-point differential pressure switch. P400 sensor and wire harness included with controller.

RANCO

Replaceable time-delay modules, and adjustable pressure range.

For R-22, R-124, R-134A, R-408, R-502, and R-507.



No. 40G367



No. 12Y971



No. 1CXH3

Description	Pressure Range (psi)	Time Delay (sec.)	Pressure Connec.	Capillary Length (in.)	Brand	Mfr. Model	Item No.
Electromechanical	9	120	¼" Flare Nut	36	Johnson Controls	P45NAA-5C	20RF58
Electromechanical, For Copeland	9	120	¼" Flare Nut	36	Johnson Controls	P45NCA-12C	40G367
Electromechanical	Fixed 6.5	45	¼" Flare Nut	36	Johnson Controls	P45NCA-82C	40G368
Electromechanical, For Copeland	9	120	¼" SAE Male Flares	—	Johnson Controls	P145NCA-12C	40G333
Electromechanical	Fixed 6.5	45	¼" Male Flare	—	Johnson Controls	P145NCA-82C	40G334
Electromechanical	9	10	¼" Male Flare	—	Johnson Controls	P145NCB-12C	20RF56
Electromechanical	Fixed 6.5	45	¼" Male Flare	—	Johnson Controls	P145NCB-82C	40G335*
Electromechanical	8 to 70	90	¼" Flare Nut	36	Johnson Controls	P28AA-1C	40G358
Electromechanical	8 to 70	60	¼" Flare Nut	36	Johnson Controls	P28AA-2C	20RF57
Electromechanical	8 to 70	120	¼" Flare Nut	36	Johnson Controls	P28AA-17C	40G357
Electromechanical	8 to 70	90	¼" Female NPT	36	Johnson Controls	P28AN-1C	40G359**
Electromechanical	8 to 70	90	¼" Male Flare	—	Johnson Controls	P128AA-1C	20RF55
Electromechanical	8 to 70	120	¼" Male Flare	—	Johnson Controls	P128AA-17C	20RF54
Electronic, For Copeland	Fixed 12.75	120	Single Point P400	40	Johnson Controls	P545NCB-22C	12Y971
Electronic, For Bitzer	Fixed 10	90	Single Point P400	48	Johnson Controls	P545NCB-25C	12Y972
Electronic, For Carlyle	Fixed 7	120	Single Point P400	40	Johnson Controls	P545NCB-82C	12Y973
Electromechanical	8 to 60	90	¼" Male Flare Nut	36	Ranco	P30-3701	1CXH3
Replacement P545 Electronic Lube Oil Sensors							
For Use With Carlyle P545NCB-82C and CST29A					Johnson Controls	P400AD-1C	12Y974
For Use With Copeland P545NCB-22C					Johnson Controls	P400AD-2C	12Y975
For Use With Bitzer P545NCB-25C					Johnson Controls	P400BD-1C	12Y976

** Carlyle model with wire alarm. ** For use with ammonia.*

PARAGON

Residential Defrost Timers

Direct replacements for defrost timers in household refrigerators and freezers. 120VAC.



No. 11Z778

Replaces O.E.M.	Max. On/Off Cycles	Defrost Time (Minutes)	Mfr. Model	Item No.
Admiral	4 Per Day	21	A1400-00	11Z778
Frigidaire	8 Per Day	21	B1400-00	11Z779
General Electric	6 Per Day	25	G1400-00	11Z781
Whirlpool	8 Per Day	21	A1402-00	11Z780

Refrigeration Defrost Thermostats

Supco



No. 2FBY5

Moisture-resistant thermostats can be used as exact OEM replacements for most refrigerators and icemakers. SPDT switch opens on rise. 120/240V.

Switch Type	Switch Amp Rating	Temp. Range (F)	Differential	Switch Opens @ (°F)	Switch Closes @ (°F)	Mfr. Model	Item No.
SPDT	25	55 to 35	20	55	35	SL5709	2FBY5
SPST	10	80 to 30	30 ±4°F	80	30	ML80	3CHK2



No. 1TGD4

Johnson Controls PARAGON

Refrigeration/ Defrost Controls

Versatile controls are microprocessor-based, multifunction, and programmable.

Description	Switch Type	Control Range (°F)	Brand	Mfr. Model	Item No.
Controls					
Defrost Control, Panel Mount	SPST	14° to 140°	Johnson Controls	MR4PM24-12C	20XJ66
Defrost Timer Control, DIN Rail	SPST	14° to 140°	Johnson Controls	MR4PMUHV-12C	20XJ67
Refrigeration/Defrost Control, Temp. Diff.: High 25°F/Low 1F°	4 SPDT	-40 to 60	Paragon	ERC2-212111-370	1TGD4
Multi-Stage Electronic Temperature Control	SPST	14° to 140°	Johnson Controls	MS4DR24T-11C	20XJ68
Accessory					
Replacement Sensor, For Use With 1TGD4			Paragon	1309007-045	5PWD7

Defrost Controls

PARAGON

Timers for Water Spray with Pump-Down Drain or Fan Delay Cycles—Defrost initiation: 1 to 8 cycles per day, at least 3 hr. between cycles. Delay or pump-down cycles: 0 to 30 min. in 3-min. increments; for stopping fans, reducing refrigerant pressure, or hot gas pump-down cycle. Defrost or fan cycles: 3 to 45 min. in 3-min. increments.

Time-Initiated and Time-Terminated—For electric heat, hot gas, or compressor shutdown defrost. Defrost/initiation cycles: 1 to 6 per day. Defrost cycles: 4 to 110 min. in 2-min. increments.

Time-Initiated, Remote-Temperature, or Pressure-Terminated—Work with external temperature or pressure sensor. Has 3 contact arrangements for electric heat, compressor shutdown, or hot gas defrost. Defrost cycles: 1 to 6 per day. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments.

Time-Initiated, Pressure-Terminated—Modular pressure bellows. 3 contact arrangements for hot gas, electric heat, or compressor shutdown defrost.



No. 5X450

Defrost cycles: 1 to 6 per day, at least 4 hr. between cycles. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments. Adjustable cut-in pressure-setting dial calibrated from 36 to 100 lb.

Time Initiated, and Time-, Pressure- and Temp.-Terminated, Auto Voltage—For commercial freezers and refrigerators. Defrost initiation in 15 min. cycles, up to 48 cycles per day. Compressor contacts 3HP, heater/fan contacts 2HP.

Universal Defrost Timers—Manual defrost can be initiated in 15-min. intervals. Provides 100 hr. of power loss protection.

Voltage	Contact Type*	Amps	Mfr. Model	Item No.
Timers for Water Spray with Pump-Down Drain or Fan Delay Cycles				
120VAC	2 NO/2 NC	10	632-00	5X450
208/240VAC	2 NO/2 NC	10	632-20	5X451
Time-Initiated and Time-Terminated				
120VAC	1 NO/2 NC	40	8041-00	12Z385
208/240VAC	1 NO/2 NC	40	8041-20	12Z388
120VAC	SPDT	40	8045-00	5X454
208/240VAC	SPDT	40	8045-20	5X455
120VAC	2 NO, 1 NC	40	8025-00	6X758
120VAC	2 NO/1 NC	40	8047-00	12Z386
208/240VAC	2 NO/1 NC	40	8047-20	5X456
Time-Initiated, Remote-Temperature, or Pressure-Terminated				
120VAC	1 NO/2 NC	40	8141-00	5X457
208/240VAC	1 NO/2 NC	40	8141-20	12Z389
120VAC	2 NO/1 NC	40	8143-00	12Z387
208/240VAC	2 NO/1 NC	40	8143-20	12Z390
120VAC	SPDT	40	8145-00	5X458
208/240VAC	SPDT	40	8145-20	5X459
Time-Initiated, Pressure-Terminated				
208/240VAC	SPDT	40	8245-20	5X460
Time Initiated, and Time-, Pressure- and Temp.-Terminated, Auto Voltage				
120/208/240/277 VAC	1 NO/1 NC	40	8145-AV	48TJ23
120/208/240/277 VAC	1 NO/1 NC	40	8145-AV-M	48TJ24
Universal Defrost Timers				
120/208/240VAC	1 NO/1 NC	30	9045-00	12Z384
120/208/240VAC	1 SPDT, 1 SPST	30	9145-00	1TGD6

** NO=Normally Open; NC=Normally Closed.*

Parker

Thermostatic Expansion Valves

Capacity is at ARI standard 750-70; at 10°F liquid subcooling. Not for use with ammonia.



No. 1ZRD4

Nom. Cap. (tons)	Connection	Connector (in.) Inlet	Connector (in.) Outlet	Equalizer Type	Mfr. Model	Item No.
Adjustable Balanced Port Expansion Valves						
R-134A Refrigerant						
1/6 to ¼	SAE Flare Angle	¼	½	Internal	C-AA-JW	**1ZRE5**
1/6 to ¼	Straight Through Solder	¼	½	Internal	EC-AA-JW	**1ZRE6**
½ to 1	SAE Flare Angle	⅜	½	Internal	CAJW	**5A433**
½ to 1	Straight Through Solder	⅜	½	Internal	EC-A-JW	**1ZRE7**
1 to 2	Angle Solder	⅜	½	External	SCE-B-JW	**1ZRF3**
1 to 2	Straight Through Solder	½	⅝	External	ECE-B-JW	**1ZRE8**
2 to 3	SAE Flare Angle	⅜	½	Internal	CCJW	**6X237**
2 to 3	SAE Flare Angle	⅜	½	External	CECJW	**6X239**
1 to 2	SAE Flare Angle	⅜	⅝	External	CEBJW	**5A435**
2 to 3	Straight Through Solder	½	⅞	External	ECE-C-JW	**1ZRE9**
R-134A Compact Adjustable, Non-Balanced Port						
¼ to ½	SAE Flare Angle	¼	½	Internal	N ½ JW	**3A664**
R-12/R-134A Compact Adjustable, Non-Balanced Port						
1 to 2	SAE Flare Angle	⅜	½	Internal	N2JW	**6X245**
R-22 Refrigerant						
⅛ to ½	SAE Flare Angle	¼	½	Internal	CAAVX35	**1H767**
⅛ to ½	SAE Flare Angle	¼	½	Internal	CAAVW	**1H768**
2 to 3	SAE Flare Angle	⅜	½	External	CEBVX100	**1ZRD4**
7½ to 8	Straight Through Solder	⅝	⅞	External	EBSE8VX100	**1ZRD5**
10 to 11	Straight Through Solder	⅝	⅞	External	EBSE11VX100	**1ZRD6**
15	Straight Through Solder	⅞	1⅛	External	EBSE15VX100	**1ZRD7**
15	Straight Through Solder	⅞	1⅛	External	OE-15-VX100	**1ZRE1**
20	Straight Through Solder	⅞	1⅜	External	OE-20-VX100	**1ZRE2**
30	Straight Through Solder	1⅛	1⅜	External	OE-30-VX100	**1ZRE3**
40	Straight Through Solder	1⅛	1⅜	External	OE-40-VX100	**1ZRE4**
⅛ to ½	Straight Through Solder	¼	½	External	ECE-AA-VZ	**1ZRG6**
¾ to 1½	Straight Through Solder	⅜	½	External	ECE-A-VZ	**1ZRG7**
1½ to 3	Straight Through Solder	⅜	½	External	ECE-B-VZ	**1ZRG8**
⅛ to ½	Angle Solder	¼	½	External	SCE-AA-VZ	**1ZRG9**
¾ to 1½	Angle Solder	⅜	½	External	SCE-A-VZ	**1ZRH1**
1½ to 3	Angle Solder	⅜	½	External	SCE-B-VZ	**1ZRH2**
¾ to 1½	SAE Flare Angle	¼	½	External	CEAVW	**4E638**
1½ to 3	SAE Flare Angle	⅜	½	External	CEBVW	**4E639**
¾ to 1½	SAE Flare Angle	⅜	½	External	CEAVX35	**4E642**
¾ to 1½	SAE Flare Angle	⅜	½	Internal	CAVW	**5A440**
3 to 5	SAE Flare Angle	⅜	½	Internal	CCVW	**5A442**
3 to 5	SAE Flare Angle	⅜	½	Internal	CCVX100	**6X238**
3½ to 5	SAE Flare Angle	⅜	½	External	CECVX100	**6X240**
R-22 Refrigerant w/ Check Valve						
1½ to 3	Straight Through Solder	⅜	½	External	HCAE-3-VX100	**1ZRD1**
3 to 5	Straight Through Solder	⅜	⅝	External	HCAE-5-VX100	**1ZRD3**
R-404A Refrigerant						
1/6 to ¼	SAE Flare Angle	¼	½	Internal	C-AA-SZ	**1ZRF4**
½ to 1	SAE Flare Angle	⅜	½	Internal	C-A-SZ	**1ZRF5**
1 to 2	SAE Flare Angle	⅜	½	External	CE-B-SZ	**1ZRF6**
2 to 3½	SAE Flare Angle	⅜	½	External	CE-C-SZ	**1ZRF7**
1/6 to ¼	Straight Through Solder	¼	½	Internal	EC-AA-SZ	**1ZRF8**
½ to 1	Straight Through Solder	⅜	½	Internal	EC-A-SZ	**1ZRF9**
1 to 2	Straight Through Solder	½	½	External	ECE-B-SZ	**1ZRG1**
2 to 3½	Straight Through Solder	⅜	½	External	ECE-C-SZ	**1ZRG2**
1 to 2	Angle Solder	⅜	½	External	SCE-B-SZ	**1ZRG5**
½ to 1	SAE Flare Angle	⅜	½	Internal	CASW	**5A436**
½ to 1	SAE Flare Angle	⅜	½	Internal	CASX35	**5A437**
2 to 3½	SAE Flare Angle	⅜	½	Internal	CCSW	**5A438**
2 to 3½	SAE Flare Angle	⅜	½	External	CECSW	**5A439**
R-410A Refrigerant						
3½ to 5	Straight Through Solder	⅜	⅝	External	HAE5ZX200	**1VW45**
1½ to 3	Straight Through Solder	⅜	½	External	HAE3ZX200	**1VW47**
1½ to 3	Straight Through Solder	⅜	½	External	HAE3ZX200B15	**1VW48**
5 to 8	Straight Through Solder	⅝	⅞	External	ECE-D-ZX200	**11X594**
8 to 12½	Straight Through Solder	⅝	1⅛	External	ECE-12.5-ZX200	**11X595**
12½ to 15	Straight Through Solder	⅝	1⅛	External	ECE-15-ZX200	**11X596**
R-410A Refrigerant w/ Check Valve						
1½ to 3	Straight Through Solder	⅜	½	External	HCAE3ZX200	**1VW49**
3½ to 5	Straight Through Solder	⅜	⅝	External	HCAE5ZX200	**1VW50**
Constant Pressure Adjustable, Non-Balanced Port, All Refrigerants						
0.88 to 4.24	SAE Flare Angle	¼	½	External	A-2	**4X859**
0.88 to 4.24	Inlet SAE Flare Angle / Outlet (F)NPT	¼	¼	External	A-1	**5A446**

RANCO
Robertshaw

Refrigeration Controls

No. 3XL11 terminates defrost and delays the evaporator fan operation on electric heat, hot gas, and reverse cycle commercial refrigeration systems. Nos. 3XL05 and 3XL06 provide off-cycle defrost. Generally used in systems without hot gas or electric defrost.



No. 12Z392

Type	Voltage	Control Range (°F)	Capillary Type	Capillary L (in.)	Brand	Mfr. Model	Item No.
Freezer Controls							
Constant Differential Control	24/120/240/277	-3 to 5.5	Capillary	84	Ranco	A30-301	**4E048**
Extra Low Temp.	120/240	-35 to 15	Capillary	72	Ranco	o10-1419	**12Z392**
Extra Low Temp.	120/240	-35 to 15	Capillary w/ Bulb Sensor	72	Ranco	o10-1433	**12Z393**
Extra Low Temp.	120/240	-55 to 0	Capillary	72	Ranco	o10-1000	**12Z391**
Low Temp.	120/240	-15 to 40	Capillary w/Air Coil Sensor	—	Ranco	o10-1072	**12Z394**
Med. Temp.	120/240	-12 to 15	Capillary w/ Bulb Sensor	47¼	Ranco	K50Q-1126-001	**6KXG4**
Soft Ice Cream Machine	120/240	-15 to 40	Capillary	72	Ranco	o16-588	**12Z399**
Refrigeration Controls							
Bulk Milk Cooler	120/240	22.5 to 47.5	Capillary w/ Bulb Sensor	72	Ranco	o16-601	**12Z401**
High Temp.	120/240	25 to 75	Capillary w/Air Coil Sensor	—	Ranco	o10-1802	**12Z397**
High Temp.	120/240	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	o10-1491	**12Z398**
Constant Differential Control	24/120/240/277	32 to 42	Capillary	84	Ranco	A30-261	**4E051**
Constant Differential Control	120/240	32 to 61	Capillary	48	Ranco	A30-2210	**3XL09** †
Med. Temp.	120/208/240V	19 to 38	Capillary w/ Bulb Sensor	72	Ranco	A12-1560	**6KXC4**
Med. Temp.	120	25 to 75	Capillary w/Air Coil Sensor	—	Ranco	O10-1418	**1A005**
Med. Temp.	120/240	34 to 55	Capillary w/ Bulb Sensor	47¼	Ranco	K50Q-1127-001	**6KXG5**
Refrigeration or Freezer Control							
Temporary Control	120/240	-5F to +38F	Capillary	9	Robertshaw	CC-1	**3PE19**
Refrigeration/Freezer Controls							
Constant Differential Control	24/120/240/277	3 to 43	Capillary	84	Ranco	A30-262	**4E050**
Med. Temp.	24	-15 to 40	Capillary w/ Bulb Sensor	72	Ranco	O10-1409	**1A003**
Med. Temp.	24	-2 to 38	Capillary	72	Ranco	O10-1408	**1A002** *
Med. Temp.	120/240	0 to 47	Capillary w/ Bulb Sensor	47¼	Ranco	K50Q-1125-001	**6KXG3**
Med. Temp.	240	0 to 55	Capillary	72	Ranco	O10-1416	**1A020**
Med. Temp.	120	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	O10-1410	**1A004**
Med. Temp.	120/240	0 to 55	Capillary	0 a 55	Ranco	o10-1010	**12Z395**
Med. Temp.	120/240	0 to 55	Capillary w/ Bulb Sensor	72	Ranco	o10-1473	**12Z396**
Med. Temp.	120/240	0 to 55	Capillary	72	Ranco	o16-111	**12Z402**
Med. Temp.	120/240	0 to 55	Capillary	72	Ranco	o16-104	**12Z403**
Med. Temp.	120/240	0 to 55	Capillary	96	Ranco	o16-264	**12Z404**
Med. Temp.	120/240	0 to 55	Capillary w/ Bulb Sensor	72	Ranco	o16-263	**12Z405**
Temperature and Defrost Controls							
Defrost Control	120/240	40 to 75	Cross Ambient Bulb	60	Ranco	F25-107	**3XL11**
Constant Cut In Cold Control	120/240	18 to 27	Capillary	84	Ranco	A12-700	**3XL05**
Constant Cut In Control	120/240	35 to 41	Capillary	84	Ranco	A12-701	**3XL06**
Water Cooler Control							
OEM Replacement	120/208/240	37 to 61	Capillary	48	Ranco	K-3001	**3XL12**

*† Not adaptable; direct fit with dial shaft. * Air coil.*

Energy-Saving Device

Helps reduce compressor cycles and energy consumption. Easy-to-install unit fits most thermostats and is suitable for use in commercial refrigerators and freezers. NSF Certified.

eTemp®

Type	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Adapter	2	2	6	ET-205	**53DE11**



Scan. Order. Done.
Details on page A1.



No. 45KE76



No. 410X67



No. 30ZZ03



No. 36WH84

PRO White-Rodgers EMERSON Johnson Controls
Honeywell Home Braeburn ICM CONTROLS BOSCH LUX Invented for life

Wi-Fi-Capable Thermostats

Allow you to access and adjust your heating and cooling system via PC, smartphone, or tablet PC.

Pro1®—No. 45KE76 has advanced features, multiple stages, and commercial settings. No. 45KE77 is ideal for residential use.

White-Rodgers™—Sensi™ touch thermostat has a geofencing feature that automatically changes temperatures based on the location of your smartphone. Smart alert capability notifies you of extreme temperature or humidity levels.

Emerson—Sensi™ Series lets you control multiple thermostats from multiple smart devices. Includes smart technology and is compatible with Amazon, Apple®, and Wink smart home platforms.

Johnson Controls—Feature high-resolution color touch screen and can control a wide range of heating/cooling equipment via an available mobile app.

Honeywell Home—Lyric™ thermostats Nos. 54DM21 and 54DM22 can be controlled by multiple smartphones at one time and are compatible with many home automation apps. Can be configured as non-programmable, programmable, or geofencing.

Braeburn®—Features SpeedBar® multi-function button to help speed programming and design allows for the addition of Bluelink wireless indoor, outdoor, or humidity sensors for enhanced system control.

ICM—i3 Series feature an intuitive interface to ease programming and touch icons located off the display for a larger viewing area. Nos. 32MY39 to 32MY41 provide humidification control.

Bosch—Easy-to-install unit offers you all-in-one control through the BCC100 App. Design allows you to connect to an unlimited number of thermostats and manage up to 4 schedules per thermostat.

LUX GEO™—Features Home and Away Aware™ geofencing and universal compatibility ("C" not required). Works with Alexa-enabled devices and mounts horizontally or vertically.

Description	For Use With	Brand	Mfr. Model	Item No.
Accessory				
Wall Plate	Sensi WiFi T-stat	Emerson	F61-2663	**38GN47**

Stages Heat	Stages Cool	Programs per Week	Temp. Settings per Day	Terminal Designations	Power Method	Foot-notes	Brand	Mfr. Model	Item No.
4 Heat Pump or 2 Conventional	2	7, 5-1-1, or Nonprog.	4	RC, RH, C, O, B, G, Y, Y2, W/E, W2	Hardwired	2, 6, 8	Pro1 Iaq	T855i	**45KE76**
4	2	7 or 5-2	7	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L	Hardwired	4, 6, 7, 8	White-Rodgers	1F95U-42WF	**410X67**
	2	7	4	RC,RH, C, W/E, W2, Y, Y2, O/B, G, L	Hardwired/Battery/ Power Stealing	4, 6, 8	Emerson	1F87U-42WF	**49VR96**
	2	7	4	W3/AUX, W2, W1/O/B, Y2, Y1, G, R, C, Sensor	Hardwired	1, 2, 5, 6, 8	Johnson Controls	T9100	**53WN09**
	2	7	4	W3/AUX, W2, W1/O/B, Y2, Y1, G, R, C, Sensor	Hardwired	1, 2, 6, 8	Johnson Controls	T9180	**53WN10**
	2	7	4	W3/AUX, W2, W1/O/B, Y2, Y1, G, R, C, Sensor	Hardwired	1, 2, 5, 6, 8	Johnson Controls	T9500	**53WN11**
	2	7	4	W3/AUX, W2, W1/O/B, Y2, Y1, G, R, C, Sensor	Hardwired	1, 2, 6, 8	Johnson Controls	T9580	**53WN12**
3 Heat Pump or 2 Conventional	2	7	4	R, RC, C, W (O/B), W2 (AUX/E), Y, Y2, G, L, K	Hardwired	2, 3, 6, 8	Honeywell Home	TH9320WF5003	**30ZZ03**
3	2	7, 5-2, 5-1-1 or Nonprog.	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired	1, 2, 6	Honeywell Home	TH6320WF2003/U	**54DM21**
	2	7, 5-2, 5-1-1, or Nonprog.	4, 2, 1, 0	RC, RH, W/1/E, W2/AUX, Y1, Y2, G, O/B, C, A, L, K, S1, S2	Hardwired/Battery	1, 2, 3, 4, 5, 6, 7, 8	Braeburn	7320	**54DC18**
	2	7	4	R, C, Rc, Rh, G, W, W2, Y, Y2, O/B, A, U1/U2.S1/S2, K, L/A, AUX/E	Hardwired/Battery	4, 5, 6, 8	Honeywell Home	TH8321WF1001	**36WH84**
2	2	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, AUX, Y1, Y2, G, S1, S2, SC	Hardwired	1, 2, 3, 5, 6, 8	ICM	I2020WH	**32MY41**
	2	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, Y1, Y2, G, S1, S2, SC	Hardwired	1, 2, 3, 6, 8	ICM	I2020W	**32MY37**
	2	7, 5-2, 5-1-1 or Nonprog.	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired	1, 2, 6	Honeywell Home	TH6220WF2006/U	**54DM22**
	2	7	8	G, Y1, Y2, W1, W2, O/B, H/DH, F, C	Hardwired	2, 5, 6, 7	Bosch	BCC100	**458J55**
	2	7	4, 2	RH, RC, B, W1, O, Y1, G, W2, C, Y2	Hardwired/Battery/ USB/Power Bridge	1, 2, 3, 6	LUX	GEO-WH	**53CV77**
1	1	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, AUX, Y1, G, S1, S2, SC	Hardwired	1, 2, 3, 5, 6, 8	ICM	I2010WH	**32MY40**
	1	7, 5-1-1, or Nonprog.	4	RC, RH, C, O, B, G, Y, W	Hardwired	—	Pro1 Iaq	T701i	**45KE77**
	1	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, AUX, Y1, G, S1, S2, SC	Hardwired	1, 2, 3, 5, 6, 8	ICM	I1010WH	**32MY39**
	1	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, Y1, G, S1, S2, SC	Hardwired	1, 2, 3, 6, 8	ICM	I1010W	**32MY35**

Footnotes: 1—Remote sensing capability. 2—Programmable fan feature. 3—Low battery indicator. 4—750mV compatible. 5—Dehumidification control. 6—Automatic changeover. 7—Large character display. 8—Control lockout.



Johnson Controls

Glas® Smart Thermostat

Voice-enabled Wi-Fi thermostat monitors humidity, equivalent carbon dioxide (eCO_2) level, and total volatile organic compounds (tVOC) indoors and can report the outdoor air quality and pollen levels. Includes features such as fan runtime options, smart ventilation, and smart circulation that allow you to have more control over your indoor air quality.

Stages Heat	Stages Cool	Programs per Week	Temp. Settings per Day	Terminal Designations	Power Method	Foot-notes	Mfr. Model	Item No.
2	2	7	7	Y, Y2, W, W2, G, O/B, AUX, R, RH, C	Hardwired	1, 5, 6, 7	SiO2-00000	**451G30**

Footnotes: 1—Remote sensing capability. 5—Dehumidification control. 6—Automatic changeover. 7—Large character display.

Honeywell Honeywell Home PRO

Wireless and Wi-Fi-Capable Thermostat Kits and Accessories

Optional RedLINK™ Internet Gateway No. 437T13 lets you remotely monitor and control the heating and cooling system in your home or business, plus receive email alerts via your PC, smartphone, or tablet PC. See Grainger.com® for included components.


No. 278Y88


No. 279A60


No. 4NE59

Prestige®—High-definition touch screen display.

FocusPRO®—Backlit display. Compatible with Wireless Outdoor Sensor No. 279A46.

Pro1®—Complete wireless systems include thermostat and equipment module.

VisionPRO®—Touch screen display with a 2-line message center.

Description	Stages Heat	Stages Cool	Programs per Week	Terminal Designations	Power Method	Footnotes	Brand	Mfr. Model	Item No.
Wireless Systems									
Prestige® IAQ	4	2	7	R, C	Hardwired	1, 2, 3, 5, 6, 8	Honeywell	YTHX9421R5101WW/U	**279A61**
	4 Heat Pump or 3 Conventional	2	7	R, C Then RedLink to Equipment Interface Module	Hardwired	1, 2, 3, 5, 6, 8	Honeywell	YTHX9421R5085WW	**278Y88**
FocusPRO®	3 Heat Pump or 2 Conventional	2	5-1-1 or 5-2	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Battery	1, 2, 3	Honeywell	YTH6320R1001	**279A59**
	3 Heat Pump or 2 Conventional	2	—	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Battery	1, 2, 3	Honeywell	YTH5320R1000	**279A60**
	3	2	5-1-1 or 5-2	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Hardwired/Battery	1, 2, 3, 6	Honeywell	YTH6320R1114	**279A65**
	3	2	5-1-1 or 5-2	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Hardwired/Battery	1, 2, 3, 6	Honeywell Home	YTH6320R1122	**14A009**
Pro1® Universal, Wireless	3 Heat Pump or 2 Conventional	2	7, 5-1-1, or Nonprogrammable	RC, RH, C, O, B, G, Y, Y2, W/E, W2, D, H	Hardwired/Battery	1, 2, 3, 5, 6, 7, 8	Pro1 Iaq	T955WH	**45KE79**
Pro1® PTAC, Wireless	2 Heat Pump or 1 Conventional	1	—	R,C,Y,W,GH,GL,O/B	Hardwired/Battery	1, 3	Pro1 Iaq	T631W-2	**45KE80**
Thermostats Only									
Prestige® IAQ	4	2	7	R, C	Hardwired	1, 2, 3, 5, 6, 8	Honeywell	THX9421R5021WW/U	**279A63**
FocusPRO®	3 Heat Pump or 2 Conventional	2	5-1-1 or 5-2	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Battery	1, 3	Honeywell	TH6320R1004	**279A62**
	3 Heat Pump or 2 Conventional	2	—	C, R, Rc, Rh, W-O/B, W2-Aux/E, Y, Y2, G, L, RAS	Battery	1, 3	Honeywell	TH5320R1002	**279A66**
VisionPRO®	1	1	7 or Nonprogrammable	R, RC, C, W-O/B, Y, G, K, S1 S1	Hardwired/Battery	1, 3, 4, 5, 6, 8	Honeywell Home	TH8110R1008	**34GR14**
	3	2	7	R, RC, C, Y, Y2, W-O/B, AUX-W2, G, L, E, S1, S2	Hardwired/Battery	1, 2, 3, 4, 6, 8	Honeywell Home	TH8320R1003	**4NE59**
	3	2	7 or Nonprogrammable	R, RC, C, W-O/B, W2-AUX/E, Y, Y2, G, A-L/A, K, S1 S1	Hardwired/Battery	1, 3, 4, 5, 6, 8	Honeywell Home	TH8321R1001	**34GR15**

Footnotes: 1—Remote sensing capability. 2—Programmable fan feature. 3—Low battery indicator. 4—750mV compatible. 5—Dehumidification control. 6—Automatic changeover. 7—Large character display. 8—Control lockout.

Description	Brand	Mfr. Model	Item No.
RedLINK™ Accessories			
RedLINK™ Internet Gateway (RIG)	Honeywell Home	THM6000R7001/U	**437T13**
Wireless Indoor Sensor	Honeywell Home	C7189R1004	**12Z045**
Wireless Outdoor Sensor	Honeywell	C7089R1013	**279A46**
Equipment Interface Module (Includes Ducts Sensors)	Honeywell Home	YTHM5421R1010/U	**12Z040**
Prestige® Accessories			
Wiring Module	Honeywell	THP9045A1023	**279A47**
Cover Plate	Honeywell	50028399-001	**279A48**
Pro1® Accessories			
Temperature Sensor	Pro1 Iaq	RZ250W	**45KF01**
Wireless Wire, Makes Any Thermostat Wireless (Up to 2H/2C Conventional or 3H/2C Heat Pump)	Pro1 Iaq	WW160W	**45KF06**
Zone Control	Pro1 Iaq	RZ251W	**45KF02**

EMERSON Dayton ICM CONTROLS PERFECTsense PRO LUX Braeburn


No. 1MBD7


No. 45KE81


No. 32MY31

Touch-Screen Programmable Thermostats

- Menu-driven programming

For residential or light commercial applications, including gas, oil, electric, or millivolt systems.

Stages Heat	Stages Cool	Programs per Week	Temp. Settings per Day	Terminal Designations	Power Method	Footnotes	Brand	Mfr. Model	Item No.
4	2	7, 5-1-1, or Nonprog.	2, 0	RH, RC, C, Y, Y2, W/E, W2, G, O/B, L, 6, A1, +, S, -	Hardwired/Battery/ Power Stealing	1, 2, 3, 4, 6, 7, 8	Emerson	1F95-1280	**4UFV3**
4	2	7, 5-1-1, or Nonprog.	4, 2, 0	RH, RC, C, Y, Y2, W/E, W2, G, O/B, L, +, S, -, 6, HM, DHM	Hardwired/Battery/ Power Stealing	1, 2, 3, 4, 5, 6, 7, 8	Emerson	1F95-1291	**2UPG8**
3	2	7, 5-1-1, or Nonprog.	4, 2, 0	RH, RC, C, Y, Y2, W/E, W2, G, O/B, L, 6, +, S-	Hardwired/Battery	1, 2, 3, 4, 6, 8	Emerson	1F95-1277	**1MBD7**
3	2	7 or 5-2	4	S1,S2,C,R,RC,W,W2,,Y,Y2,G,E,O/B,AUX	Hardwired/Battery	1, 2, 3, 4, 6, 8	Dayton	6EDZ6	**6EDZ6**
3	2	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, AUX, Y1, Y2, G, S1, S2, SC	Dual	1, 2, 3, 6, 7, 8	ICM	I3020	**32MY34**
3 Heat Pump or 2 Conventional	2	7, 5-1-1, or Nonprog.	4, 2	RC, RH, C, O, B, G, Y, Y2, W/E, W2	Hardwired/Battery	2, 3, 4, 6, 7, 8	Pro1 Iaq	T955	**45KE81**
3 Heat Pump or 2 Conventional	1	7, 5-1-1, or Nonprog.	4	RC, RH, C, O, B, G, Y, W	Hardwired/Battery	2, 3, 4, 6, 7, 8	Pro1 Iaq	T905	**45KE82**
2	2	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, Y1, Y2, G, S1, S2, SC	Dual	1, 2, 3, 6, 8	ICM	I2020	**32MY33**
2	1	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, W2, Y1, G, S1, S2, SC	Dual	1, 2, 3, 6, 8	ICM	I2010	**32MY32**
2	1	7 or Nonprog.	4, 2	G, B, O, Y, RC, RH, W2, A, W1, C	Hardwired/Battery	2, 3, 8	LUX	P721UT	**53CV78**
2	1	5-2	4, 2, 1, 0	RC, RH, O, B, Y1, W1, G, C, W1/E, W2	Hardwired/Battery	3, 4	Braeburn	2220NC	**54DC02**
1	1	7, 5-1-1, or Nonprog.	4, 2, 0	RH, RC, C, Y, W/E, G, O, B, 6, +, S, -, L	Hardwired/Battery	1, 2, 3, 4, 6, 7, 8	Emerson	1F97-1277	**1MBD8**
1	1	7, 5-2, or 5-1-1 Day	4	RH, RC, W1/O/B, Y1, G, S1, S2, SC	Dual	1, 2, 3, 6, 8	ICM	I1010	**32MY31**
1	1	7	4	S1/S2, C, R, RC, W, O/B, L, Y, G	Hardwired/Battery	2, 3, 4, 6, 8	Perfectsense	PS4000	**52KA65**

Footnotes: 1—Remote sensing capability. 2—Programmable fan feature. 3—Low battery indicator. 4—750mV compatible. 5—Dehumidification control. 6—Automatic changeover. 7—Large character display. 8—Control lockout.



No. 1YMG4



No. 42PD16

Digital Programmable Thermostats

- Retain programmed information in the event of a power loss

EMERSON · PECO AN ASTRONICS COMPANY · Honeywell Home · Honeywell · Dayton · LUX · PRO · Braeburn

Stages Heat	Stages Cool	Programs per Week	Temp. Settings per Day	Terminal Designations	Power Method	Foot-notes	Brand	Mfr. Model	Item No.
Multi-Stage Heat/Cool or Heat Pump									
4	2	7, 5-1-1, or Nonprogrammable	4, 2, 0	RH, RC, C, Y, Y2, W/E, W2, G, O/B, L, 6, +, S, -	Hardwired/Battery/ Power Stealing	1, 2, 3, 4, 6, 7, 8	Emerson	1F95-0671	**4UFV1**
4	2	7, 5-1-1, or Nonprogrammable	4, 2, 0	RH, RC, C, Y, Y2, W/E, W2, G, O/B, 6, L, A1, +, S, -	Hardwired/Battery/ Power Stealing	1, 2, 3, 4, 6, 7, 8	Emerson	1F95-0680	**2UPG9**
3	2	7, 5-2, 5-1-1, or Nonprogrammable	4, 2, 1, 0	C, W1(B/O), W2(AUX), G, A, E, Y1, Y2, RH, RC, SC, S1, S2, S3	Hardwired/Battery/ Power Stealing	1, 2, 3, 5, 6, 7, 8	Peco	T8532-IAQ	**6FFW7**
3	2	7, 5-2, 5-1-1, or Nonprogrammable	4, 2, 1, 0	C, W1(B/O), W2(AUX), G, A, E, Y1, Y2, RH, RC, SC, S1, S2, S3	Hardwired/Battery/ Power Stealing	1, 2, 3, 6, 7, 8	Peco	T8532-001	**6FFW8**
3	2	7, 5-2, 5-1-1 or Nonprogrammable	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired/Battery	1, 2, 3, 6	Honeywell Home	TH6320U2008/U	**54DM23**
3	2	7	4	C, W1 (B/O), W2 (AUX), G, A, E, Y1, Y2, RH, RC, SC, S1, S2, S3	Hardwired/Battery	1, 2, 3, 6, 8	Peco	T4932SCH-001	**29AT95**
3	2	7	4	C, W1 (B/O), W2 (AUX), G, A, E, Y1, Y2, RH, RC, SC, S1, S2, S3	Hardwired/Battery	1, 2, 3, 5, 6, 8	Peco	T4932SCH-002	**29AT96**
3	3	7	4	RH, RC, Y1, Y2, Y3, W1, W2, W3, G, O/B, X, Aux, AS, OS, T3, T4, T5, T6, T7, HS, HC, HP, M, ebus	Hardwired	1, 2, 8	Honeywell	T7351F2010	**1YMG4**
2	2	7, 5-2, 5-1-1 or Nonprogrammable	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired/Battery	1, 2, 3, 6	Honeywell Home	TH6220U2000/U	**54DM24**
2	2	7	4	O,B,Y1,Y2,G,W2,E/W1,R,C,L	Hardwired/Battery	3, 4, 6, 8	Dayton	6EDZ8	**6EDZ8**
2	2	7 or Nonprogrammable	4, 2	G, Y1, RC, RH, W1, A, Y2, O, B, W2, C	Hardwired/Battery	2, 3, 8	LUX	P722U	**53CV79**
2	1	7, 5-2, 5-1-1 or Nonprogrammable	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired/Battery	1, 2, 3, 6	Honeywell Home	TH6210U2001/U	**54DM25**
2	1	5-1-1	4	RC, RH, C, G, O, B, Y, E, W2	Hardwired/Battery	3	Pro1 Iaq	T725	**45KE90**
2	1	5-1-1	4	R, C, Y, W2, G, O/B, E, L	Hardwired	—	Emerson	1F82-261	**3MY14**
Single-Stage Heat/Cool or Heat Pump									
1	1	7, 5-2, 5-1-1 or Nonprogrammable	4, 2, 1, 0	RC, R, C, W, W2, AUX, Y, Y2, O/B, G, K, E, U, U, L/A, S, S	Hardwired/Battery	2, 3, 6	Honeywell Home	TH4110U2005/U	**54DM26**
1	1	7, 5-2, or Nonprogrammable	4, 2	RH, RC, W, Y, G, C, O/B	Hardwired/Battery	3, 4, 8	LUX	P711	**53CV81**
1	1	7, 5-2, or Nonprogrammable	4, 2	RH, RC, W, Y, G, C, O/B	Hardwired/Battery	3, 4, 8	LUX	P711V	**53CV82**
1	1	7	4	R,C,RC,RH,G,W,Y,O/B,LN	Hardwired/Battery	3, 4	Dayton	6EDZ7	**6EDZ7**
1	1	5-2	4	RH, RC, Y, W, G, O, B	Battery	3, 4	Emerson	1F78-151	**3MU99**
1	1	5-1-1	4	RH, RC, C, Y, W, G, O, B	Hardwired/Battery	3, 4	Emerson	1F80-361	**2NY19**
Multi-Stage Heat/Cool									
4	2	7	4	RC, RH, C, W/E, W2 , Y, Y2, O/B/6, G, L	Battery	3, 4, 6, 8	Emerson	1F85U-42PR	**42PD17**
3	2	7, 5-1-1, or Nonprogrammable	4, 2, 1	RC, RH, C, O, B, G, Y, Y2, W/E, W2	Hardwired/Battery	2, 3, 4, 6, 7, 8	Pro1 Iaq	T855	**45KE83**
3	2	7, 5-1-1, or Nonprogrammable	4, 1	RC, RH, C, O, B, G, Y, Y2, W/E, W2, S1, S2	Hardwired/Battery	1, 2, 3, 4	Pro1 Iaq	T755S	**45KE88**
3	2	7, 5-1-1, or Nonprogrammable	4, 1	RC, RH, C, O, B, G, Y, Y2, W/E, W2	Hardwired/Battery	2, 3, 4	Pro1 Iaq	T755	**45KE89**
2	2	7	4	RC, RH, C, W/E, W2, Y, Y2, O/B/6, G, L	Battery	3, 4, 6, 8	Emerson	1F85U-22PR	**42PD16**
2	2	7, 5-1-1, or Nonprogrammable	4, 1	RC, RH, C, G, Y, Y2, W, W2	Hardwired/Battery	3, 4	Pro1 Iaq	T715	**45KE92**
2	1	7	4	R, C, W2, E, Y, OB, G, L	Battery	3, 8	Emerson	1F83H-21PR	**42PD15**
2	1	5-2, or Nonprogrammable	4, 2	O, B, G, Y, RC, RH, W1, A, W2, C	Hardwired/Battery	3, 4, 8	LUX	P521U	**53CV80**
Single-Stage Heat/Cool									
1	1	7	4	RC, RH, C, W, Y, OB, G	Battery	3, 4, 8	Emerson	1F83C-11PR	**42PD14**
1	1	7, 5-1-1, or Nonprogrammable	4, 1	RC, RH, C, O, B, G, Y, W	Hardwired/Battery	2, 3, 4, 6, 7, 8	Pro1 Iaq	T805	**45KE84**
1	1	7, 5-1-1, or Nonprogrammable	4, 1	RC, RH, C, O, B, G, Y, W	Hardwired/Battery	3, 4	Pro1 Iaq	T705	**45KE93**
1	1	5-1-1	4	RC, RH, C, O, B, G, Y, W	Hardwired/Battery	3, 4	Pro1 Iaq	T605-2	**45KE97**
1	1	—	—	RH,RC,Y1,G,W1,O,B,C	Hardwired/Battery	3, 4, 7	Braeburn	2020	**54DC05**

Footnotes: 1—Remote sensing capability. 2—Programmable fan feature. 3—Low battery indicator. 4—750mV compatible. 5—Dehumidification control. 6—Automatic changeover. 7—Large character display. 8—Control lockout.



Plastic
No. 4E644



Metal
No. 13J040



Stainless Steel
No. 13J044

GA GRAINGER APPROVED

Universal Thermostat Guards

Mount horizontally or vertically. Designed to protect virtually any thermostat. Models with clear cover have off-white base and ring. For other models, base and ring match cover color.

Plastic—Probe-resistant models have double-wall design to prevent tampering.

Stainless Steel—Long life and durable performance in humid and corrosive environments.

Thermostat Guard Cover Color	Probe Resist.	Inside H	Inside W	Inside D	Outside H	Outside W	Outside D	Item No.
Plastic (Box, Solid and Ring Base, Mounting Hardware, (2) Keys Included)								
Clear	Yes	4 7/16"	4 7/16"	2 1/4"	5 3/8"	5 3/8"	2 5/8"	**4E644**
	Yes	6 1/16"	5 1/16"	2 5/8"	7 5/16"	6 5/16"	3"	**2E430**
	No	4 9/16"	4 1/4"	2 1/2"	5 3/16"	5 3/16"	2 5/8"	**3TZ57**
	No	7 1/2"	4 11/16"	2 1/8"	8 1/2"	5 11/16"	2 1/2"	**2E999**
	Yes	8 3/8"	5 7/8"	3"	9 5/8"	7 1/8"	3 3/8"	**4E649**
	No	8 11/16"	5 3/16"	3 1/2"	9 11/16"	6 3/16"	3 7/8"	**2E706**
Off-White	Yes	4 7/16"	4 7/16"	2 1/4"	5 3/8"	5 3/8"	2 5/8"	**4E645**
	Yes	6 1/16"	5 1/16"	2 5/8"	7 5/16"	6 5/16"	3"	**4E647**
	Yes	8 3/8"	5 7/8"	3"	9 5/8"	7 3/16"	3 3/8"	**4E650**
Plastic (Box, Solid and Ring Base, Mounting Hardware, (1) Key Included)								
Clear	No	6 13/16"	4"	3"	8"	5"	3 3/8"	**2E379**
Metal, Hinged (Box, Solid and Ring Base, Mounting Hardware, (2) Keys Included)								
Off-White	No	4 5/8"	5 1/4"	2 1/2"	5 3/16"	5 13/16"	2 13/16"	**13J049**
	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J051**
	No	8 5/8"	6 3/4"	3"	9 3/16"	7 1/4"	3 5/16"	**13J048**
Beige	No	4 5/8"	5 1/4"	2 1/2"	5 3/16"	5 13/16"	2 13/16"	**13J041**
	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J043**
	No	8 5/8"	6 3/4"	3"	9 3/16"	7 1/4"	3 5/16"	**13J040**
Metal, Hinged (Box, Ring Base, Mounting Hardware, (2) Keys Included; Solid Base Not Included)								
Beige	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J042**
Off-White	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J050**
Stainless Steel, Hinged, with Vents in Top & 4 Sides, (Box, Solid and Ring Base, Mounting Hardware, (2) Keys Included)								
Silver	No	4 5/8"	5 1/4"	2 1/2"	5 3/16"	5 13/16"	2 11/16"	**13J045**
	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J047**
	No	8 5/8"	6 3/4"	3"	9 3/16"	7 1/4"	3 5/16"	**13J044**
Stainless Steel, Hinged, with Vents in Top & 4 Sides, (Box, Ring Base, Mounting Hardware, (2) Keys Included; Solid Base Not Included)								
Silver	No	7 7/8"	5 11/16"	3 3/8"	8 7/16"	6 1/4"	3 11/16"	**13J046** *

**** Does not include solid base.***

Find even **MORE** on **Grainger.com®**

1-800-GRAINGER (472-4643)

Digital Nonprogrammable Thermostats

EMERSON LUX · Honeywell · PRO · Braeburn · White-Rodgers · Honeywell Home · Dayton

Stages Heat	Stages Cool	Terminal Designations	Power Method	Footnotes	Brand	Mfr. Model	Item No.
Multi-Stage Heat/Cool or Heat Pump							
4	2	RC,RH,C,W/E,W2,Y,Y2,O/B/6,G,L	Hardwired/Battery	3, 4, 6	Emerson	1F85U-42NP	**42PD13**
2	2	RC,RH,C,W/E,W2,Y,Y2,O/B/6,G,L	Hardwired/Battery	3, 4, 6	Emerson	1F85U-22NP	**42PD12**
2	1	R,C,O/B,W2,Y,G,L	Hardwired/Battery	3, 4	Emerson	1F89EZ-0251	**16X604**
2	1	R,C,Y,W,G,O/B	Hardwired/Battery	3, 4	Honeywell	TH1210DV1007/U	**278Y84**
2	1	E, Y, B, O, W2, R, G, C	Hardwired/Battery	3, 7	LUX	PSDH121B	**53CV83**
2	1	R,C,W2,E,Y,O/B,G,L	Hardwired/Battery	3, 7, 8	Emerson	1F83H-21NP	**42PD11**
2	1	R,C,W2,Y,G,O/B,E,L	Hardwired	—	Emerson	1F79-111	**16X609**
2	1	R,C,Y,W2,G,O/B,E,L	Hardwired	—	Emerson	1F89-211	**3MY16**
2	1	R,C,Y,W2,E,G,O,B	Hardwired/Battery	3	Pro1 Iaq	T621-2	**45KE96**
2	1	R,C,Y,W,GH,GL,O/B	Hardwired/Battery	3, 4	Pro1 Iaq	T631-2	**45KE95**
2 Heat Pump or 1 Conventional	1	R,C,Y,W,GH,GL,O/B	Hardwired/Battery	1, 3	Pro1 Iaq	T631W-2	**45KE80**
2	1	R,C,Y,W2,E,G,O,B	Hardwired/Battery	3	Pro1 Iaq	T721	**45KE91**
2	1	R,O,B,C,Y1,E/W1,G,W2	Hardwired/Battery	3, 4, 7	Braeburn	1220NC	**54DA99**
Single-Stage Heat/Cool or Heat Pump							
1	1	RC,RH,C,W,Y,O/B,G	Hardwired/Battery	3, 4, 8	Emerson	1F83C-11NP	**42PD10**
1	1	RH,RC,Y,W,G,O,B	Battery	3, 4	White-Rodgers	1E78-144	**2TE31**
1	1	RH,RC,Y,W,G,O,B	Battery	3, 4	Emerson	1F78-144	**3MY10**
1	1	RH, RC, W, Y, G, C, O/B	Hardwired/Battery	3, 8	LUX	P111	**53CV84**
1	1	R,RC,Y,W,G,O,B	Hardwired/Power Stealing	—	Honeywell Home	T8775C1005	**4EY31**
1	1	R,C,G,W,Y,Rh/B, Rc/O	Hardwired/Battery	3, 4	Dayton	6EEA2	**6EEA2**
Single-Stage Heat/Cool							
1	1	R,C,Y,W,G	Hardwired/Battery	3, 4	Honeywell Home	TH1110DV1009/U	**2HFF4**
1	1	R,RC,C,W,Y,G,O,B	Hardwired/Battery	3, 4	Honeywell Home	TH1110DH1003	**14A004**
1	1	R,C,O/B,W,Y,G	Hardwired/Battery	3, 4	Emerson	1F86EZ-0251	**16X603**
1	1	RH,RC,C,Y,W,G,O,B	Hardwired/Battery	3	Emerson	1F86-344	**2NY20**
1	1	RH,RC,C,Y,W,G,O,B	Hardwired/Battery	3, 4	Pro1 Iaq	T601-2	**45KE98**
1	1	RH,RC,C,Y,W,G,O,B	Hardwired/Battery	3, 4	Pro1 Iaq	T701	**45KE94**
1	1	Y,G,C,W,R	Hardwired/Battery	3	Honeywell Home	TH1110D2009	**494C68**
1	1	Y,G,C,W,R	Hardwired/Battery	3	Honeywell Home	TH1010D2000	**494C69**
Heat Only							
1	—	R,W	Hardwired/Power Stealing	—	Honeywell Home	T8775A1009	**4EY30**
1	—	R,C,W	Hardwired/Battery	3, 4	Honeywell Home	TH1100DH1004	**14A003**
1	—	RH,W	Battery	3, 4	Emerson	1E78-140	**16X610**
1	1	R,C,W/Y,G	Hardwired/Battery	3, 4	Pro1 Iaq	T771	**45KE86** †

Footnotes: 1—Remote sensing capability. 3—Low battery indicator. 4—750mV compatible. 6—Automatic changeover. 7—Large character display. 8—Control lockout. † No. 45KE86 is Heat Only or Cool Only.

No. 45KE96



No. 42PD10



No. 2HFF4



Dayton · Honeywell Home · LUX · Johnson Controls · EMERSON · PERFECTsense · Braeburn · White-Rodgers

Mechanical Thermostats

No. 1JUA9—Has enlarged scale for easy reading.

Nos. 2KFY1 and 2KFY2—Separate terminal plate included for heat-only applications.

No. 36P602—Senses room air temperature and automatically operates damper actuator.

Control Range	System Switching	Fan Switching	Terminal Designations	Footnotes	Brand	Mfr. Model	Item No.
Single-Stage, for Conventional Systems							
40° to 90°F	Cool-Off	Auto-On	RC,C,Y,G	—	Dayton	1UHE7	**1UHE7**
	Heat-Cool-Off	Auto-On	RH,RC,C,Y,W,G	—	Dayton	1UHE6	**1UHE6**
	No	No	R, Y, W	—	Honeywell Home	T87K1007	**1AYP9**
	No	No	RH,C,W	—	Dayton	1UHE9	**1UHE9**
45° to 90°F	Heat-Cool-Off	Auto-On	G,Y,W,RH,RC	4	LUX	PSM400SA	**53CV86**
	Auto	No	Wires	—	Johnson Controls	T58EA-12C	**20RF27**
	Auto	No	Wires	—	Johnson Controls	T58EA-8C	**20RF28**
	Heat-Cool-Off	Auto-On	RH, RC, Y, W, G	4	Dayton	4PU47	**4PU47**
	Heat-Off	No	R, W	4	Emerson	1E50N-301	**2KFY3**
	No	No	R, W	—	Honeywell Home	T822K1018	**1JUB2**
	No	No	R, W	4	Emerson	1E30N-910	**2KFX9**
50° to 90°F	No	No	R, W	4	Dayton	4PU45	**4PU45**
	No	No	R, W	4	Dayton	4PU51	**4PU51**
	No	No	R, W	—	Honeywell Home	T812A1002	**5AE54**
	No	No	R, W	4	Emerson	1C20-101	**3MU96**
	No	No	R, Y	—	Emerson	1C21-101	**3MU97**
	No	No	W, G, Y, RC, RH	4	Perfectsense	PS988-1R	**52KA67**
	No	No	RH, W	4	Braeburn	505	**54DA97**
Single-Stage, for Conventional or Heat Pump Systems							
40° to 90°F	Heat-Cool-Off	Auto-On	R, RC, Y, W, G, O, B	—	Honeywell Home	T87N1000	**1AYR2**
	Heat-Cool-Off	Auto-On	R, RC, Y, W, G, O, B	—	Honeywell Home	T87N1026	**1JUA9**
45° to 90°F	Heat-Cool-Off	Auto-On	G, Y, W, RH, B, RC, O	4	LUX	PSM40SA	**53CV87**
	No	No	RH,W	4	LUX	PSM30SA	**53CV85**
50° to 90°F	Heat-Cool-Off	Auto-On	R, RC, Y, W, G, O, B	—	Honeywell Home	T834N1002	**1JUB3**
	Heat-Cool-Off	Auto-On	R, RC, Y, W, G, O, B	—	Honeywell Home	T8034N1007	**1JUB1**
	Heat-Cool-Off	Auto-On	RH, RC, Y, W, G, O, B, A	4	Emerson	1E56N-444	**2KFY1**
	Heat-Cool-Off	Auto-On	RH, RC, Y, W, G, O, B, A	4	Emerson	1F56N-444	**2KFY2**
	Heat-Cool-Off	Auto-On	RH, RC, Y, W, G, O, B, A	4	White-Rodgers	1C26-101	**3MU98**
Single-Stage, for Damper Motor Actuators							
50° to 90°F	Auto	No	—	—	Johnson Controls	T58EA-1C	**36P602**

Footnotes: 4—750mV compatible.

No. 1AYP9



No. 2KFX9



No. 36P602



Portable Heating/Cooling Thermostats

▪ SPST switch

Columbus Electric · Dayton · Johnson Controls · LUX

Description	Thermostat Control Range*	Diff.	Inductive Amps @ 120V	Sensor Type	Display Type	H	W	D	Brand	Mfr. Model	Item No.
Piggyback Plug, 6 ft. Cord and HSJ Cord with Piggyback Plug, Mount with Suspension Chain or Wire, For Portable Heating Equipment	-10° to 100°F	6 to 8°F	13.8A	Bi-Metal	Analog	5½"	2½"	2"	Columbus Electric	KT-121B	**2E817**
Piggyback Plug, 6 ft. Cord and HSJ Cord with Piggyback Plug, Mount with Suspension Chain or Wire, For Portable Cooling Equipment	-10° to 100°F	6 to 8°F	13.8A	Bi-Metal	Analog	5½"	2½"	2"	Columbus Electric	KTO-121B	**11Z436**
Heating Only, Piggyback Plug, For Portable Heating Equipment	40° to 95°F	1°F	3A	Thermistor	Digital	5½"	2⅞"	2⅝"	Dayton	1UHG6	**1UHG6**
Piggyback Plug, For Portable Heating Equipment	35° to 95°F	3.5°F	13A	Hydraulic Capillary	Analog	5½"	2³⁄₁₆"	2³⁄₁₆"	Johnson Controls	A19BAG-1E	**2E535**
Piggyback Plug, 6-ft. Cord with A Piggyback Plug and Wire Hanger, For Portable Heating Equipment	35° to 95°F	3.5°F	15A	Hydraulic Capillary	Analog	4½"	2⅛"	2⅛"	Dayton	2NNR8	**2NNR8**
	35° to 95°F	3.5°F	15A	Hydraulic Capillary	Analog	4½"	2⅛"	2⅛"	Dayton	2NNT5	**2NNT5** †
Heating, Celsius Dial, For Portable Heating Equipment	5° to 35°C	±1°	3A	Thermistor	Digital	5½"	2⅞"	2⅝"	Dayton	15F626	**15F626** *
Plug-In Freeze Protection Thermostat, For Portable Heating Equipment	On at 35°F, Off at 45°F	10 Degree F	15A	Bi-Metal	No Display	1⁴⁵⁄₆₄"	3⁵⁄₁₆"	1⁷⁄₆₄"	Dayton	48GP69	**48GP69**
(2) 1.5V G13 Alkaline Batteries, For Portable Heating and Cooling Equipment	45° to 90°F	1°F	15A	Thermistor	Digital	2¾"	5¼"	1¾"	LUX	PSP300	**53CV88**

** No. 15F626 is celsius. † Stainless steel housing enclosure.*

No. 15F626



No. 53CV88





No. 1UHH1


No. 38Y075


No. 4E636


No. 2E734



No. 6WY24


No. 2E477

Dayton Johnson Controls PECO AN ASTRONICS COMPANY Columbus Electric Honeywell White-Rodgers Honeywell Home PERFECTsense EMERSON

Line Voltage Thermostats

Nos. 2NNT1, 2NNR9, and 2NNT2—430 stainless steel housing; suitable for use in high humidity and corrosive environments. No. 2NNT1 controls up to 2 devices, with 1 stage operating 3°F higher than the other.

Nos. 1UHH1 to 1UHH4 and 4E636—Use stainless steel sensing elements for corrosive conditions. No. 4E636 has NEMA 4X enclosure; suitable for agricultural, wet, or mildly corrosive conditions with airborne contaminants.

No. 2E517—Includes removable locking cover.

No. 4NE56—Features 44°F frost protection setting.

No. 2E734—Features 2 dial stops for locking dial setting.

No. 6WY24—Features 7-day programming and backlit LCD. 3 presets: normal, economy, and extended absence.

No. 6WY23—Shows actual temperature on large LCD. Backlight button and On/Off switch.

No. 2NKW5—Triac control maintains setpoint temp. within ±1°F.

No. 4PU48—Features positive Off position.

No. 2E831—Includes thermometer and locking cover.

No. 2E477—Locking case prevents tampering.

Thermostat Switch Type	Thermostat Control Range	Differential	H	W	D	Thermostat Voltage	Full Load Amps @ 120V	Full Load Amps @ 240VAC	Resistive Contact Ratings 120V	Resistive Contact Ratings 240V	Brand	Mfr. Model	Item No.
2-Stage Heating or Cooling													
SPDT	30° to 110°F	3.5°F	5¾"	2¼"	2¼"	24 to 600VAC	16A	8A	16A	8A	Dayton	1UHH3	**1UHH3**
	30° to 110°F	3.5°F	4½"	2⅛"	2⅛"	24 to 600VAC	16A	8A	16A	8A	Dayton	2NNT1	**2NNT1**
	30° to 110°F	3°F	7"	3¼"	3½"	120 to 277VAC	15A	8A	16A	8A	Dayton	4LZ95	**4LZ95**
	30° to 110°F	3.5°F	5¾"	2½"	2½"	24 to 600VAC	16A	8A	16A	8A	Dayton	6EDY4	**6EDY4**
	30° to 110°F	3.5°F	4⅜"	2⅛"	1 13/16"	24 to 277VAC	16A	8A	22A	8A	Johnson Controls	A28AA-4C	**38Y081**
	40° to 90°F	0.7°F	5"	3"	3"	120 to 277VAC	15A	3A	16A	8A	Johnson Controls	T25A-1C	**36P595**
	40° to 90°F	1° to 1.3°F	5 7/32"	2 25/32"	1 15/16"	24 to 277VAC	15A	3A	10A	8A	Johnson Controls	T25A-16C	**20XJ82**
	40° to 100°F	3°F	7⅓"	3½"	4⅞"	24, 120 to 277VAC	16A	12A	25A	25A	Peco	TH109-009	**4MY92**
Heating/Cooling													
SPDT	50° to 90°F	2 to 4°F	4¾"	2¾"	1½"	120 to 277VAC	22A	22A	22A	22A	Columbus Electric	ETD9STGS	**2E158**
	30° to 110°F	3.5°F	5¾"	2½"	2½"	24 to 240VAC	16A	8A	22A	22A	Dayton	1UHH1	**1UHH1**
	30° to 110°F	3.5°F	5¾"	2¼"	2¼"	24 to 600VAC	16A	8A	22A	22A	Dayton	1UHH2	**1UHH2**
	-10° to 100°F	6 to 8°F	5½"	2"	2"	120 to 277VAC	15A	10A	22A	22A	Dayton	2E816	**2E816**
	30° to 110°F	3.5°F	4½"	2⅛"	2⅛"	24 to 600VAC	16A	8A	22A	22A	Dayton	2NNR9	**2NNR9**
	30° to 110°F	3° to 12°F	7"	3¼"	3½"	120 to 240VAC	15A	8A	22A	22A	Dayton	4LZ94	**4LZ94**
	30° to 110°F	3° to 12°F	5¾"	2½"	2½"	24 to 600VAC	16A	8A	22A	22A	Dayton	6EDY3	**6EDY3**
	30° to 110°F	3.5°F	5¾"	2½"	2½"	24 to 600VAC	16A	8A	22A	22A	Dayton	6EDY5	**6EDY5**
	46° to 84°F	1°F	5"	3⅛"	1⅝"	120 to 240VAC	15A	8A	22A	22A	Honeywell	T6051A1016	**2E517**
	-30° to 100°F	±5°F	4 5/16"	6 1/16"	2⅞"	24 to 240VAC	15A	8A	10A	5A	Honeywell	T631C1103	**2E724**
	44° to 86°F	2°F	4½"	2 15/16"	1½"	120 to 277VAC	15A	4A	22A	22A	Honeywell	T651A3018	**4NE56**
	30° to 110°F	3.5°F	4⅜"	2⅛"	1 13/16"	24 to 277VAC	16A	8A	22A	22A	Johnson Controls	A19BAC-1C	**38Y069**
	30° to 110°F	1.9°C	4 13/32"	2 5/32"	1 13/16"	24 to 600VAC	15A	8A	22A	22A	Johnson Controls	A19BAC-3C	**20XJ39**
	30° to 110°F	1.5°F	4 13/32"	2 5/32"	1 13/16"	24 to 277VAC	15A	3A	10A	10A	Johnson Controls	A19BAF-1C	**20XJ40**
	-30° to 100°F	3° to 12°F	4⅜"	2⅛"	1 13/16"	120 to 277VAC	16A	8A	22A	22A	Johnson Controls	A19BBC-2C	**38Y070**
	35° to 95°F	3° to 12°F	4⅜"	2⅛"	1 13/16"	120 to 277VAC	16A	8A	22A	22A	Johnson Controls	A19BBC-2CQ	**38Y071**
	-30° to 100°F	3° to 12°F	4⅜"	2⅛"	1 13/16"	120 to 277VAC	16A	8A	22A	22A	Johnson Controls	A19BBC-4C	**38Y072**
	30° to 110°F	2°F	4⅜"	2⅛"	1 13/16"	24 to 277VAC	6A	3A	10A	10A	Johnson Controls	A19EAF-2C	**38Y074** *
	30° to 110°F	3° to 12°F	5⅝"	2 13/16"	2⅞"	24 to 277VAC	16A	8A	22A	22A	Johnson Controls	A19PRC-1C	**38Y075**
SPST	40° to 90°F	1°F	5 3/16"	2 25/32"	2 19/32"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T22AAA-1C	**20XJ77**
	40° to 90°F	1.7°F	5 3/16"	2 25/32"	2 19/32"	120 to 240VAC	15A	8A	—	—	Johnson Controls	T22CBC-1C	**20XJ78**
	40° to 90°F	1.3°F	5 3/16"	2 25/32"	2 19/32"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T22JAA-1C	**20XJ79**
	40° to 90°F	1.3°F	5 3/16"	2 25/32"	2 19/32"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T22JCC-1C	**20XJ80**
SPDT	40° to 90°F	1° to 1.3°F	5 3/16"	2 25/32"	2 19/32"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T22SEB-1C	**20XJ81**
	40° to 90°F	0.7°F	5"	3"	3"	0 to 277VAC	15A	3A	—	—	Johnson Controls	T22SFB-1C	**36P594**
SPST	40° to 90°F	0.7°F	5"	3"	3"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T26A-14C	**36P596**
	40° to 65°F	1.1°F	4 45/64"	2 31/32"	2⅞"	24 to 277VAC	15A	3A	10A	10A	Johnson Controls	T26A-15C	**20XJ83**
SPDT	40° to 90°F	0.7°F	5"	3"	3"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T26S-18C	**36P597**
	40° to 90°F	0.7°F	5"	3"	3"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T26S-22C	**36P598**
	40° to 90°F	0.7°F	5"	3"	3"	24 to 277VAC	15A	3A	—	—	Johnson Controls	T26T-3C	**36P599**
	40° to 110°F	±3°F	7"	3"	2 39/64"	24, 120 to 277VAC	16A	12A	25A	25A	Peco	TF115-001	**4E636**
	36° to 90°F	1.5°F	5⅛"	2⅞"	2⅛"	120 to 277VAC	8A	4A	8A	8A	White-Rodgers	1A10-651	**2E734**
Heat Only													
Digital Programmable													
DPST	40° to 86°F	±1°F	4⅞"	2¾"	⅞"	208 to 240VAC	15A	15A	—	15A	Honeywell Home	TL8230A1003	**6WY24**
Digital Nonprogrammable													
DPST	40° to 86°F	±1°F	4⅞"	2¾"	⅞"	208 to 240VAC	15A	15A	—	15A	Honeywell Home	TL7235A1003	**6WY23**
SPST	45° to 90°F	1°F	5"	4 3/16"	1¼"	120 to 240VAC	16.7A	16.7A	16.70A	16.7A	White-Rodgers	1E65-144	**2NKW5**
Analog													
SPST	-10° to 100°F	6 °F	5½"	2-13/100"	2-63/100"	120 to 277VAC	15A	10A	22A	22A	Dayton	2E815	**2E815**
	50° to 90°F	2° to 4°F	4¾"	2¾"	1½"	120 to 277VAC	22A	22A	22A	22A	Dayton	4PU49C	**4PU49**
DPST	50° to 90°F	2° to 4°F	4¾"	2¾"	1½"	120 to 277VAC	22A	22A	22A	22A	Dayton	4PU48C	**4PU48**
SPST	50° to 80°F	±2°F	4½"	2⅛"	2⅜"	120 to 277VAC	15A	15A	22A	22A	Honeywell Home	T4398A1021	**4CZ52**
	40° to 80°F	±3°F	4 17/32"	2 29/32"	1 15/16"	120 to 277VAC	15A	—	22A	22A	Honeywell Home	T498A1778	**2E831**
DPST	40° to 85°F	±3°F	4 17/32"	2 29/32"	1 15/16"	120 to 277VAC	15A	—	22A	22A	Honeywell Home	T498B1512	**2E832**
SPST	40° to 85°F	±1°F	4½"	2¾"	1¼"	120 to 277VAC	22A	22A	22A	22A	White-Rodgers	1A65-641	**4E036**
DPST	40° to 85°F	±1°F	4½"	2¾"	1¼"	240 to 277VAC	15A	15A	—	22A	White-Rodgers	1A66-641	**4E037** †
SPST	55° to 85°F	2°F	4½"	4½"	2¼"	120 to 240VAC	14A	7A	25A	22A	White-Rodgers	152-9	**2E369**
	40 to 90°F	3°F	4½"	4½"	2¼"	120 to 240VAC	14A	7A	25A	20A	White-Rodgers	152-10	**2E477**
	40° to 90°F	±3°F	4½"	2¾"	1"	120 to 277VAC	22A	22A	—	—	Perfectsense	PS801	**53EA92**
Cool Only													
SPST	80° to 130°F	15°F	4 9/16"	2 13/16"	2⅛"	120 to 240VAC	13.8A	10A	—	—	Columbus Electric	1A22-7	**2E340**
	30° to 110°F	3.5°F	5¾"	2¼"	2¼"	24 to 240VAC	16A	8A	22A	22A	Dayton	1UHH4	**1UHH4**
	-10° to 100°F	6 to 8°F	5½"	2-13/100"	2-63/100"	120 to 277VAC	15A	10A	22A	22A	Dayton	2E869	**2E869**
	30° to 110°F	3.5°F	4½"	2⅛"	2⅛"	24 to 600VAC	16A	8A	22A	22A	Dayton	2NNT2	**2NNT2**
	50° to 90°F	2 to 4°F	4¾"	2¾"	1½"	120 to 277VAC	22A	22A	22A	22A	Dayton	6GVX8C	**6GVX8**
Accessory													
Heating-Cooling Subbase for use with Nos. 2E734 and 3TZ43											Emerson	S29-21	**2E735**

**** Duct mount. † Double pole disconnect with Off position that mechanically breaks both sides of line.***

Dayton | Johnson Controls | PECO AN ASTRONICS COMPANY
RANCO | SIEMENS
White-Rodgers

Remote Bulb Thermostats

Nos. 2NNT3 and 2NNT4—Have stainless steel housing and capillary components for corrosive environments.

No. 2KGR3—Has gas-filled bulb and electro-plated copper capillary tube. For large coils where air stratification could cause localized freezing.

No. 4MY93—Has corrosion-resistant stainless capillary and sensor for agricultural applications.

Nos. 4E912 and 4E919—Used with room air conditioners, packaged terminal air conditioners, and heat pumps.

Nos. 1RC43 and 2E399—Temperature dial is graduated in both °F and °C. No. 2E399 has bimetallic sensor.















Description	For Use With	Item No.
Accessories		
Thermostat Knob	6EDY8	**6EDZ2**
	6EDY9	**6EDZ3**
Thermostat Housing	6EDY8, 6EDY9, 6EDZ0	**6EDZ1**

Thermostat Heating/ Cooling	Thermostat Switch Type	Thermostat Control Range	Differential	Sensing Bulb Length	Capillary Length	Encl. Type	Voltage Range	Contact Rating Inductive Amps @ 120V	Contact Rating Inductive Amps @240V	Resistive Amps @ 240V (A)	Mfr. Model	Item No.
Dayton												
Cooling	SPST	30° to 90°F	3.5 °F	5 in	60 in	Steel	24 to 600VAC	16 A	8 A	22 A	2NNR5	**2NNR5**
	SPST	-30° to 90°F	3.5 °F	5 in	60 in	Stainless Steel	24 to 600VAC	16 A	8 A	22 A	2NNT4	**2NNT4**
Heating	DPST	60° to 250°F	+/-15°F	7 3⁄8 in	84 in	None	120 to 480VAC	16 A	30 A	22 A	6EDY9	**6EDY9**
	DPST	100° to 550°F	+/-18°F	3 ½ in	84 in	None	120 to 480VAC	16 A	30 A	22 A	6EDZ0	**6EDZ0**
Heating/Cooling	SPDT	0° to 120°F	3.5 °F	5 in	60 in	Plastic NEMA 4X	24 to 600VAC	16 A	8 A	22 A	2NNR6	**2NNR6**
	SPDT	-30° to 90°F	3.5 °F	5 in	96 in	Steel	24 to 600VAC	16 A	8 A	22 A	2NNR7	**2NNR7**
	SPDT	30° to 90°F	3.5 °F	5 in	96 in	Stainless Steel	24 to 600VAC	16 A	8 A	22 A	2NNT3	**2NNT3**
	SPDT	-30° to 90°F	3° to 12°F	5 in	96 in	Steel	24 to 600VAC	16 A	8 A	22 A	6EDY7	**6EDY7**
Johnson Controls												
Cooling	SPST	35° to 45°F	—	4 ft	240 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A11A-1C	**38Y046**
	SPST	35° to 45°F	8 °F	4 ft	240 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A11B-1C	**38Y047**
	SPST	30° to 50°F	2.5 °F	2 1⁄8 in	72 in	Galvanized/Steel	24 to 277VAC	6 A	3 A	10 A	A19AAD-5C	**38Y050**
	SPST	-30° to 100°F	3° to 12°F	4 in	72 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABA-40C	**38Y052**
	SPST	-30° to 100°F	3° to 12°F	5 in	72 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABA-45C	**38Y054**
	SPST	-30° to 100°F	—	4 in	72 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A19ACA-14C	**38Y063**
	SPST	-30° to 100°F	—	4 in	120 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A19ACA-15C	**38Y064**
	SPST	15° to 55°F	5 °F	—	240 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70BA-18C	**38Y107**
Heating	SPST	200° to 550°F	10 °F	6 in	96 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19AAB-10C	**38Y048**
	SPST	50° to 200°F	6° to 24°F	2 ½ in	120 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABB-2C	**38Y055**
	SPST	100° to 240°F	—	3 ½ in	72 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A19ADB-1C	**38Y065**
Heating/Cooling	SPDT	100° to 240°F	6 °F	3 ½ in	72 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19AAC-9C	**38Y049**
	SPDT	25° to 225°F	3.5 °F	3 in	120 in	Galvanized/Steel	24 to 277VAC	6 A	3 A	10 A	A19AAF-12C	**38Y051**
	SPDT	100° to 240°F	6° to 24°F	2 3⁄8 in	—	Galvanized/Steel	24 to 277VAC	10 A	6 A	—	A19ABC-11C	**38Y056**
	SPDT	100° to 240°F	6° to 24°F	2 3⁄8 in	96 in	Galvanized/Steel	24 to 277VAC	10 A	6 A	—	A19ABC-12C	**38Y057**
	SPDT	-30° to 100°F	3° to 12°F	4 in	96 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABC-24C	**38Y058**
	SPDT	-30° to 100°F	6° to 24°F	4 in	240 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABC-36C	**38Y059**
	SPDT	-30° to100°F	6° to 24°F	4 in	120 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABC-37C	**38Y060**
	SPDT	30° to 80°F	6° to 24°F	3 1⁄16 in	—	Galvanized/Steel	24 to 277VAC	16 A	8 A	22 A	A19ABC-39C	**38Y061**
	SPDT	50° to 130°F	3.5° to 14°F	5 in	96 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19ABC-4C	**38Y062**
	SPDT	-30° to 100°F	3 °F	3 in	24 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19AGC-77C	**38Y066**
	SPDT	-30° to 100°F	3 °F	3 in	72 in	Galvanized/Steel	120 to 277VAC	16 A	8 A	22 A	A19AGC-8000C	**38Y067**
	SPDT	0° to 150°F	5 °F	2 1⁄4 in	120 in	NEMA 3R	120 to 277VAC	16 A	8 A	8 A	A19ANC-1C	**38Y068**
	SPDT	45° to 85°F	4 °F	3 1⁄8 in	72 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	22 A	A19ZBC-2C	**38Y076**
	SPDT	30° to 110°F	2° to 7°F	12 ft	72 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A28AA-28C	**38Y078**
	SPDT	-30° to 100°F	2° to 7°F	4 in	96 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A28AA-29C	**38Y079**
	SPDT	40° to 90°F	2° to 7°F	5 3⁄4 in	96 in	Galvanized/Steel	24 to 277VAC	16 A	8 A	8 A	A28AA-36C	**38Y080**
	SPDT	20° to 80°F	2° to 7°F	—	72 in	Galvanized/Steel	24 to 277VAC	6 A	3 A	8 A	A28AJ-4C	**20XJ45**
	SPDT	20° to 80°F	2° to 7°F	—	72 in	Galvanized/Steel	24 to 277VAC	6 A	3 A	8 A	A28GA-23C	**20XJ46**
	DPST	15° to 55°F	5 °F	—	240 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70GA-1C	**38Y108**
	DPST	35° to 80°F	3° to 30°F	3 in	72 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70GA-2C	**38Y109**
	DPST	15° to 55°F	2 °F	20 ft	12 in	NEMA 1	24 to 240VAC	16 A	8 A	6 A	A70HA-14C	**2KGR3**
	DPST	15° to 55°F	5 °F	—	240 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70HA-1C	**38Y110**
	DPST	35° to 80°F	6 °F	3 in	72 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70HA-2C	**38Y111**
	DPST	100° to 170°F	8 °F	10 in	72 in	Galvanized/Steel	120 to 600VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	A70KA-1C	**38Y112**
	DPST	25° to 90°F	5° to 45°F	6 7⁄8 in	72 in	Steel, Weather Resistant	120 to 600VAC	24 A	15A at 3 Phase, 24A at 1 Phase	24 A	A72AE-1C	**38Y113**
Peco												
Heating/Cooling	SPDT	0° to 120°F	3 °F	2 5⁄16 in	60 in	Rain Tight NEMA 4X	24, 120 to 277VAC	16 A	12 A	25 A	TRF115-005	**4MY93**
Ranco												
Heating/Cooling	SPDT	60° to 98°F	3 °F	9 in	36 in	None	120 to 277VAC	20 A	20 A	—	C12-5010	**4E912**
	SPDT	64° to 101°F	3.5 °F	8 5⁄16 in	24 in	None	120 to 277VAC	20 A	20 A	—	C17-100	**4E919**
Siemens												
Heating/Cooling	SPDT	40° to 90°F	1.8 °F	—	240 in	Galvanized/Steel	120 to 240VAC	6 A	3 A	10 A	134-1084	**40PN31**
	DPST	15° to 55°F	5 °F	20 ft	240 in	Galvanized/Steel	120 to 277VAC	6A Aux, 16A Main	3A Aux, 8A Main	3A Aux, 8A Main	134-1504	**40PN32**
	SPDT	35° to 45°F	12 °F	20 ft	240 in	Galvanized/Steel	120 to 240VAC	16 A	8 A	8 A	134-1510	**40PN33**
	SPDT	35° to 45°F	12 °F	20 ft	240 in	Galvanized/Steel	120 to 240VAC	16 A	8 A	8 A	134-1511	**40PN34**
White-Rodgers												
Cooling	SPST	-30° to 90°F	3.5° to 40°F	5 ¼ in	60 in	Dustproof NEMA 1	120 to 240VAC	16 A	8 A	22 A	1609-101	**1RC43**
Heating/Cooling	SPDT	-30° to 90°F	4.5° to 40°F	5 ¼ in	96 in	—	120 to 240VAC	7.4 A	3.7 A	20 A	1687-9	**2E399**

Johnson Controls EMERSON Honeywell RANCO

Electronic Controls



No. 35LY79



No. 278Y45



No. 44R204



No. 3ZP81

- Digital display

Johnson Controls—All controls are UL and C-UL Listed.

A421 Series controls are single-stage, electronic temperature controls with SPDT output relay. The controls feature an adjustable backlit LCD for viewing the temperature and status of other functions, and a three-button touchpad for setup and adjustment. No. 35LY81 comes with factory-equipped power cord. Nos. 35LY80 and 35LY86 include Off-Cycle Defrost control with adjustable defrost cycle duration and frequency. Nos. 35LY79 and 35LY85 are freecooling, duty-cycle ventilation controls.

P470 Series are single-stage and feature lockable touchpad, LCD, and front-panel LED output status. Field selectable ranges include 0 to 100 psi, 0 to 500 psi, or 50 to 750 psi.

System 350™ modular units provide On/Off and proportional temperature, humidity, and pressure control, and temperature reset.

System 450™ digital modular units monitor and control temperature, humidity, and pressure simultaneously. Field-configurable out-of-the-box with Ethernet, Modbus, or Standalone communications options.

Honeywell—Vertically or horizontally mount the IP65 housing. Temperature Control No. 2GZN7 includes Remote Sensor No. 2GZP4. All controls are UL and C-UL Listed, CE Certified.

- **Throttling range: 1° to 150°F**
- **Thermistor sensor: 1097 ohms PTC at 77°F, ¼" dia. x 2"L**
- **NEMA enclosures have 9" leads**

Ranco—Displays error codes. Keypad lockout, settings memory, and time delay on power up. All controls are UL Listed and CSA Certified.

- **Thermistor sensor: ¼" dia. x 4"L**
- **0 to 10V output on Nos. 3ZP78, 3ZP80, 3ZP83, and 3ZP85**

Description	Switch Type	Voltage Range	Control Range	No. of Relay Inputs	No. of Relay Outputs	Full Load Amps @ 120VAC	Full Load Amps @ 240VAC	Encl. Type	Mfr. Model	Item No.	
Johnson Controls - A421											
Temp. Control, 6½ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABC-02C	**35LY75**	
Temp. Control, 9¾ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABC-03C	**35LY76**	
Temp. Control, 13 ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABC-04C	**35LY77**	
Temp. Control, 19½ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABC-06C	**35LY78**	
Defrost Control, 6½ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABD-02C	**35LY80**	
Temp. Control, 6½ ft. Sensor Lead, 6 ft. Plug	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABG-02C	**35LY81**	
Cycle Timer, 6½ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421ABT-02C	**35LY79**	
Temp. Control, 9¾ in. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421AEC-01C	**35LY83**	
Temp. Control, 6½ ft. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421AEC-02C	**35LY84**	
Defrost Control, 9¾ in. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421AED-01C	**35LY86**	
Cycle Timer, 9¾ in. Sensor Lead	SPDT	120/240VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421AET-01C	**35LY85**	
Temp. Control, 6½ ft. Sensor Lead	SPDT	24VAC	-40° to 212°F	1	1	16A	8A	NEMA 1	A421GBF-02C	**35LY82**	
Temp. Control, 9¾ in. Sensor Lead	SPDT	24VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421GEF-01C	**35LY88**	
Temp. Control, 6½ ft. Sensor Lead	SPDT	24VAC	-40° to 212°F	1	1	16A	8A	NEMA 4X	A421GEF-02C	**35LY89**	
Johnson Controls - P470											
Pressure Control	SPDT	120/240VAC	0 to 750 psi	1	1	16A	8A	NEMA 1	P470EB-1C	**40G369**	
Pressure Control	SPDT	20/30 VAC	0 to 750 psi	1	1	16A	8A	NEMA 1	P470FB-1C	**40G370**	
Johnson Controls - System 350™											
Temp. Control	SPDT	20/30VAC	-30° to 212°F	1	1	9.8A	4.9A	NEMA 1	A350AA-1C	**36P544**	
Temp. Control	SPDT	20/30VAC	90° to 250°F	1	1	9.8A	4.9A	NEMA 1	A350AA-2C	**36P545**	
Temp. Control	SPDT	24/277VAC	-35 to 55 F°	0	0	15A	4.9A	NEMA 1	A350BA-1C	**20XJ47**	
Temp. Control	—	20/30VAC	-30° to 212°F	1	1 Proportional	—	—	NEMA 1	A350PS-1C	**36P546**	
Temp. Control	—	20/30VAC	90° to 250°F	1	1 Proportional	—	—	NEMA 1	A350PS-2C	**36P547**	
Temp. Control	SPDT	20/30VAC	-30° to 212°F	1	1	—	—	NEMA 1	A350RS-1C	**36P548**	
Temp. Display Module	—	—	—	—	—	—	—	NEMA 1	D350AA-1C	**36P576**	
Humidity Display Module	—	24VAC	—	—	—	—	—	NEMA 1	D351AA-1C	**36P577**	
Pressure Display Module	—	—	—	0	0	—	—	NEMA 1	D352AA-2C	**20XJ55**	
Pressure Display Module	—	—	—	0	0	—	—	NEMA 1	D352CA-1C	**20XJ56**	
Temp. Stage Module	SPDT	—	—	—	1	9.8A	4.9A	NEMA 1	S350AA-1C	**36P592**	
Temp. Stage Module	SPDT	24/240VAC	-34 to 66 F°	0	0	15A	4.9A	NEMA 1	S350AB-1C	**20XJ71**	
Pressure Stage Module	SPDT	24/240VAC	—	0	1	9.8A	4.9A	NEMA 1	S352AA-2C	**20XJ75**	
Modular Electronic Sequencer	SPDT	24/240VAC	-30 to 150 F°	0	0	15A	4.9A	NEMA 1	S353AA-1C	**20XJ76**	
Humidity Control	SPDT	120/240VAC	—	1	1	9.8A	4.9A	NEMA 1	W351AB-2C	**20XJ85**	
Power Module	—	120/240VAC	—	—	—	15A	—	NEMA 1	Y350R-1C	**36P687**	
Johnson Controls - System 450™											
Control Module	—	24/240VAC	-50° to 360°F	3	0	—	—	NEMA 1	C450CEN-1C	**30KA32**	
Control Module	—	24/240VAC	-50° to 360°F	3	0	—	—	NEMA 1	C450CRN-1C	**30KA33**	
Refrigeration Control	SPDT	20/30 VAC	-40 to 150 F°	0	0	9.8A	4.9A	NEMA 1	C450RBN-3C	**20XJ51**	
Control Module	SPDT	0/5VAC	-40° to 250°F	3	2	9.8A	4.9A	NEMA 1	C450RCN-3C	**12Y966**	
Refrigeration Control	—	—	-40 to 150 F°	—	0	—	—	NEMA 1	C450SPN-1C	**20XJ52**	
Refrigeration Control	—	—	-40 to 150 F°	—	0	—	—	NEMA 1	C450SQN-1C	**20XJ53**	
Power Module	—	120/240 VAC	—	—	—	15A	—	NEMA 1	C450YNN-1C	**12Y967**	
Johnson Controls Accessories											
Humidity Sensor, Wall, For Use with System 350™ & System 450™									HE-67S3-0N0BT	**12Y969**	
Humidity Sensor, Duct, For Use with System 350™ & System 450™									HE-67S3-0N00P	**12Y970**	
Temp. Sensor, Shielded PVC Cable, 78"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BA-200C	**36P556**	
Temp. Sensor, PVC Cable, 9¾"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-25C	**36P557**	
Temp. Sensor, PVC Cable, 78"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-200C	**12Y968**	
Temp. Sensor, PVC Cable, 108"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-300C	**36P558**	
Temp. Sensor, PVC Cable, 228"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-600C	**36P559**	
Temp. Sensor, High Temp. Silicon Cable, 9¾"L, -40 to 248°F, For Use with System 350™, System 450™, A419									A99BC-25C	**36P560**	
Temp. Sensor, High Temp. Silicon Cable, 108"L, -40 to 248°F, For Use With System 350™, System 450™									A99BC-300C	**36P561**	
Wall Temp. Sensor, For Use with System 450™									TE-68NT-0N00S	**36P667**	
Honeywell											
Temp. Control	2 SPDT	24/240VAC	-40° to 248°F	2	2	9.8A	4.9A	NEMA 1	T775M2048	**278Y45**	
Temp. Control	2 SPDT	24/240VAC	-40° to 248°F	2	2	9.8A	4.9A	NEMA 1	T775U2006	**278Y47**	
Temp. Control	4 SPDT	24/240VAC	-40° to 248°F	2	4	9.8A	4.9A	NEMA 4X	T775B2024	**2GZN7**	
Temp. Control	2 SPDT	24/240VAC	-40° to 248°F	2	2	9.8A	4.9A	NEMA 1	T775B2032	**278Y44**	
Temp. Control	4 SPDT	24/240VAC	-40° to 248°F	2	4	9.8A	4.9A	NEMA 1	T775B2040	**278Y46**	
Temp. Control	SPDT	24/240VAC	-40° to 248°F	1	1	9.8A	4.9A	NEMA 1	T775A2009	**2GZN9**	
Honeywell Accessories											
Remote Sensor, Outdoor, For Use With T775 Series 2									T775-SENS-OAT	**279A42**	
Remote Sensor, Standard, For Use With T775 Series 2									50021579-001	**279A37**	
Remote Sensor, Strap-on, For Use With T775 Series 2									T775-SENS-STRAP	**279A44**	
Remote Sensor, Water Resistant, For Use With T775 Series 2									T775-SENS-WR	**279A38**	
Remote Sensor, Water-Tight, For Use With T775 Series 2									T775-SENS-WT	**279A39**	
Emerson											
Temp. Control	SPDT	24/240VAC	-40° to 220°F	1	1	16A	8A	NEMA 1	16E09-101	**44R204**	
Ranco											
Temp. Control	SPDT	120/208/240VAC	-30° to 220°F	1	1	16 (5.8)	8 (2.9)	NEMA 1	ETC-111000-000	**3ZP77**	*
Temp. Control	SPDT	120/208/240VAC	-30° to 220°F	1	1	16 (5.8)	8 (2.9)	NEMA 1	ETC-111100-000	**3ZP78**	
Temp. Control	SPDT	24VAC	-30° to 220°F	1	1	16 (5.8)	8 (2.9)	NEMA 1	ETC-112000-000	**3ZP79**	*
Temp. Control	SPDT	24VAC	-30° to 220°F	1	1	16 (5.8)	8 (2.9)	NEMA 1	ETC-112100-000	**3ZP80**	
Temp. Control	SPDT	120/208/240VAC	-30° to 220°F	1	1	16 (5.8)	8 (2.9)	NEMA 4X	ETC-141000-000	**3ZP81**	*
Temp. Control	2 SPDT	120/208/240VAC	-30° to 220°F	1	2	9.8A (NO), 5.8A (NC)	4.9A (NO), 2.9A (NC)	NEMA 1	ETC-211000-000	**3ZP82**	*
Temp. Control	2 SPDT	120/208/240VAC	-30° to 220°F	1	2	9.8A (NO), 5.8A (NC)	4.9A (NO), 2.9A (NC)	NEMA 1	ETC-211100-000	**3ZP83**	
Temp. Control	2 SPDT	24VAC	-30° to 220°F	1	2	9.8A (NO), 5.8A (NC)	4.9A (NO), 2.9A (NC)	NEMA 1	ETC-212000-000	**3ZP84**	*
Temp. Control	2 SPDT	24VAC	-30° to 220°F	1	2	9.8A (NO), 5.8A (NC)	4.9A (NO), 2.9A (NC)	NEMA 1	ETC-212100-000	**3ZP85**	
Temp. Control	2 SPDT	120/208/240VAC	-30° to 220°F	1	2	9.8A (NO), 5.8A (NC)	4.9A (NO), 2.9A (NC)	NEMA 4X	ETC-241000-000	**3ZP86**	*
Ranco Accessories											
Temp. Sensor, -30°F to 220°F, For Use With Ranco ETC Series Controls									1309007-044	**44C531**	

**** Item does not have 0 to 10V signal output.***

KMC CONTROLS SIEMENS Johnson Controls

Building Automation Controllers and Sensors

KMC FlexStat™ BACnet Controllers— Built-in program library can be customized with site-specific and application-specific requirements. Connect to any system using the ASHRAE BACnet communication protocol. UL Listed.

- 64 x 128 dot matrix LCD
- 24VAC
- Wire clamp 14-22 AWG connection
- Wall mount

KMC Temperature Sensors—Type 2 and type 3 10k ohm resistors.

Siemens—Installed sensors provide accurate environmental measurements to Siemens and other HVAC control systems.

Johnson Controls—Temperature sensors provide economical solutions for a wide variety of temperature sensing needs. The Humidity All-Polymer™ sensor construction provides improved resistance to chemical corrosion. Innovative TrueRH™ circuitry and calibration process for True±2 or 3% humidity sensing accuracy and reliability. Carbon dioxide sensors include an innovative CARBOCAP® sensor, with its single-beam, dual-wavelength design, for superior performance compared to other technologies.



KMC
No. 6HXT6



Siemens
No. 48RH63



Johnson Controls
No. 36P581



Johnson Controls
No. 444M80

Type	Mfr. Model	Item No.
KMC FlexStat™ BACnet Controllers		
6 Relay And 3 Universal Outputs	BAC-120063CW	**6HXR4**
6 Relay And 3 Universal Outputs With Humidity	BAC-120163CW	**6HXR5**
6 Relay And 3 Universal Outputs With Occupancy Sensor	BAC-121063CW	**6HXR6**
6 Relay And 3 Universal Outputs With Humidity and Occupancy Sensor	BAC-121163CW	**6HXR7**
3 Relay And 6 Universal Outputs	BAC-120036CW	**6HXR8**
3 Relay And 6 Universal Outputs With Humidity	BAC-120136CW	**6HXR9**
3 Relay And 6 Universal Outputs With Occupancy Sensor	BAC-121036CW	**6HXT0**
3 Relay And 6 Universal Outputs With Humidity And Occupancy Sensor	BAC-121136CW	**6HXT1**
KMC Temperature Sensors		
4 In. Duct Rigid	STE-1405	**6HXT8**
8 In. Duct Rigid	STE-1402	**6HXT6**
12 In. Duct Rigid	STE-1404	**6HXT7**
6 Ft. Duct Averaging	STE-1415	**6HXT9**
12 Ft. Duct Averaging	STE-1416	**6HXU0**
Room, Flat Plate	STE-1430	**6HXU1**
Outside Air	STE-1451	**6HXU2**
Wall	STE-6011-10	**6HXU3**

Description	Mfr. Model	Item No.
Siemens Room Temperature Sensors		
1k ohm Pt 385a RTD, Blank Front	QAA2212.EWSN	**48RH63**
For Use with Siemens TEC Only, Full HMI	QAA2280.FWSC	**48RH76**
Siemens Room Humidity/Temperature Sensor		
For Use with Siemens TEC Only, Full HMI	QFA3280.FWSC	**48RH85**
Siemens Air Quality (CO^2) Sensors		
Wall-Mount, 0-10V Output	QPA2000	**5WYE8**
Duct-Mount, 0-10V Output	QPM2100	**5WYE9**

Description	Mfr. Model	Item No.
Johnson Controls Temperature Sensors		
Duct Plate, For Use with TE-6000 and A99	TE-6001-1	**36P612**
Duct Temp. Element Holder, For Use with TE-6000 Series Elements	TE-6001-11	**20XG80**
Nickel 1k ohm, 2½"L	TE-6000-100	**36P611**
Nickel 1k ohm, 36"L	TE-6000-1	**36P610**
Nickel 1k ohm, 36"L	TE-6300-603	**36P617**
Nickel 1k ohm, Adjustable, Metal, For Use with Any BAS/DDC System	TE-6315M-1	**36P628**
Nickel 1k ohm, Adjustable, Metal, For Use with Any BAS/DDC System	TE-6316M-1	**36P630**
Nickel 1k ohm, Adjustable, Plastic, For Use with Any BAS/DDC System	TE-6315P-1	**36P629**
Nickel 1k ohm, Adjustable, Plastic, For Use with Any BAS/DDC System	TE-6316P-1	**36P631**
Nickel 1k ohm, Duct 18" Metal, For Use with Any BAS/DDC System	TE-631JM-1	**36P637**
Nickel 1k ohm, Duct 4", For Use with Any BAS/DDC System	TE-631GM-1	**36P635**
Nickel 1k ohm, Duct Metal 8", For Use with Any BAS/DDC System	TE-6311M-1	**36P621**
Nickel 1k ohm, Duct Plastic 8", For Use with Any BAS/DDC System	TE-6311P-1	**36P622**
Nickel 1k ohm, Flange 4" Metal, For Use with Any BAS/DDC System	TE-631GV-2	**36P636**
Nickel 1k ohm, Flange 8", For Use with Any BAS/DDC System	TE-6311V-2	**36P623**
Nickel 1k ohm, Flush Mount, For Use with Any BAS/DDC System	TE-6310F-1	**36P620**
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-631AP-1	**36P634**
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6000-11	**20XG79**
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6300-601	**20XG87**
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6311A-1	**20XG88**
Nickel 1k ohm, For Use with TE-67xx Sensor	TE-67NP-3B00	**20XH01**
Nickel 1k ohm, Outdoor Air 3", For Use with Any BAS/DDC System	TE-6313P-1	**36P626**
Nickel 1k ohm, Strap Mount 3", For Use with Any BAS/DDC System	TE-631S-1	**36P638**
Nickel 1k ohm, Wall, For Use with Any BAS/DDC System	TE-6314P-1	**36P627**
Nickel 1k ohm, Well, 6", For Use with Any BAS/DDC System	TE-631AM-1	**36P632**
Nickel 1k ohm, Well, 6", For Use with Any BAS/DDC System	TE-631AM-2	**36P633**
Nickel 1k ohm, Well, Metal, 8", For Use with Any BAS/DDC System	TE-6312M-1	**36P624**
Nickel 1k ohm, Well, Plastic, 8", For Use with Any BAS/DDC System	TE-6312P-1	**36P625**
Nickel 1k ohm with Phone Jack, For Use with Any BAS/DDC System	TE-67NP-0N00	**36P652**
Nickel 1k ohm with Phone Jack, For Use with Any BAS/DDC System	TE-68NP-0N00S	**36P665**
Nickel 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-67NT-0N00	**36P657**
Nickel 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-68NT-1N00S	**36P668**
Outside Air Housing, For Use with TE-6000 and A99	TE-6001-2	**36P613**

Description	Mfr. Model	Item No.
Johnson Controls Temperature Sensors (Cont.)		
Platinum 1k ohm, Duct Plastic 8", For Use with Any BAS/DDC System	TE-6351P-1	**36P640**
Platinum 1k ohm, Flange 8", For Use with Any BAS/DDC System	TE-6351V-2	**36P641**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-6351M-1	**20XG91**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-6359-1	**20XG92**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635AM-2	**20XG93**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635AP-1	**20XG94**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635GM-1	**20XG95**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635JM-1	**20XG96**
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635S-1	**20XG97**
Platinum 1k ohm, For Use with TE-67xx Sensor	TE-67PP-0N00	**20XH03**
Platinum 1k ohm, Wall, For Use with Any BAS/DDC System	TE-6324P-1	**36P639**
Platinum 1k ohm, Wall, For Use with BAS System	CD-W00-00-2	**46AE84**
Platinum 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-67PT-0N00	**36P663**
Platinum Equivalent 1k ohm, For Use with Any BAS/DDC System	TE-6327P-1	**20XG89**
Platinum Equivalent 1k ohm, For Use with Any BAS/DDC System	TE-6328P-1	**20XG90**
Silicon 1,035 ohms, For Use with Any BAS/DDC System	TE-6100-961	**20XG86**
Thermistor 10k ohm Type 2, Duct 4" Metal, For Use with Any BAS/DDC System	TE-636GM-1	**36P646**
Thermistor 10k ohm Type 2, Duct 8" Metal, For Use with Any BAS/DDC System	TE-6361M-1	**36P642**
Thermistor 10k ohm Type 2, Duct 8" Plastic, For Use with Any BAS/DDC System	TE-6361P-1	**36P643**
Thermistor 10k ohm Type 2, Duct Probe, For Use with Any BAS/DDC System	TE-636GV-2	**20XG99**
Thermistor 10k ohm Type 2, Flange 8", For Use with Any BAS/DDC System	TE-6361V-2	**36P644**
Thermistor 10k ohm Type 2, Outdoor Air, For Use with Any BAS/DDC System	TE-6363P-1	**36P645**
Thermistor 10k ohm Type 2, Outdoor Air, For Use with Any BAS/DDC System	TE-6360F-1	**20XG98**
Thermistor 10k ohm Type 2, Strap 3", For Use with Any BAS/DDC System	TE-636S-1	**36P647**
Wall Plate, Gray, For Use with TE-6000 and A99	TE-6001-4	**36P615**
Wall Plate, White, For Use with TE-6000 and A99	TE-1800-9600	**36P609**
Wall Temp. Sensor, For Use with System 450™	TE-68NT-0N00S	**36P667**
Well Mounting Kit, For Use with TE-6000 and A99	TE-6001-3	**36P614**
Johnson Controls Humidity Sensors		
2%, Duct, For Use with Any BAS/DDC System	HE-67N2-0N00P	**36P581**
2%, Duct, For Use with Any BAS/DDC System	HE-67P2-0N00P	**20XJ61**
2%, For Use with Any BAS/DDC System	HE-67N2-0N00W	**20XJ58**
2%, Humidity Transmitter, For Use with Any BAS/DDC System	HT-6702-0N00P	**20XJ64**
2%, Wall, For Use with System 450™	HE-68N2-0N00WS	**36P585**
2%, Wall, Warmer/Cooler Adjustment, For Use with Any BAS/DDC System	HE-68N2-1N00WS	**36P586**
3%, Duct, For Use with Any BAS/DDC System	HE-67N3-0N00P	**36P582**
3%, Humidity Transmitter, For Use with Any BAS/DDC System	HT-6703-0N00P	**20XJ65**
3%, Wall, For Use with Any BAS/DDC System	HE-67N3-0N0BT	**36P583**
3%, Wall, For Use with Any BAS/DDC System	HE-68P3-0N00WS	**20XJ62**
3%, Wall, For Use with System 450™	HE-68N3-0N00WS	**36P587**
3%, Wall, Warmer/Cooler Adjustment, For Use with Any BAS/DDC System	HE-68N3-1N00WS	**36P588**
Duct, For Use with Any BAS/DDC System	HH-6705-9N0GP	**20XJ63**
Johnson Controls Temperature/Humidity Sensors		
Duct, For Use with Any BAS/DDC System	HL-67N5-8N00P	**36P589**
Outdoor, 2-Wire, For Use with Any BAS/DDC System	HT-68P3-0N000	**35LY70**
Outdoor, 3-Wire, For Use with Any BAS/DDC System	HE-68P3-0N000	**35LY71**
Johnson Controls Thermostat Controllers		
Low Voltage Thermostat	TEC3630-14-000	**55LT84**
Low Voltage Thermostat	TEC3631-14-000	**55LT88**
Johnson Controls End Of Line Terminator		
For Use with BACnet System	MS-BACEOL-0	**36P590**
Johnson Controls CO^2 Transmitter		
3 5/32"H x 1 13/16"W, For Use with Mfr. No. Y65T31-0	CD-P1000-00-00	**444M80**


No. 1N172


No. 1UHE3


No. 36P601


No. 4MY97


No. 3RCK7

White-Rodgers · Dayton · Johnson Controls · PECO An Astronics Company · Honeywell

Electric Fan Coil Controls

Nos. 3RCK7, 3RCK8, 3RCK9, and 278Y50 feature high/low-temp. limits and energy-saving mode with selectable heating or cooling setback points.

No. 278Y50 is prewired for easy installation.

Nos. 2NCA6 and 2NCA7 provide partial or full keypad lockout.

Nos. 2NCA6 and 2NCA7 are UL Listed; No. 1UHE3 is ETL Listed; No. 1N172 is UL Listed and CSA Certified; Nos. 4MY96 and 4MY97 are UL and C-UL Listed.

Application	Thermostat Switch Type	Thermostat Control Range	Input Voltage	Fan Switching	System Switching	Display	H (in.)	W (in.)	D (in.)	Brand	Mfr. Model	Item No.
Electric Line Voltage												
Electric Manual Heat/Cool, 3-Speed Fan	SPDT	36° to 90°F	120 to 277	Hi-Med-Low	Heat-Off-Cool	Analog	4½	4½	2¼	White-Rodgers	1A11-2	**1N172** *
3-Speed Cooling System	SPDT	40° to 90°F	120	Hi-Med-Low	On-Off	Analog	4¼	3⅝	1¼	Dayton	1UHE3	**1UHE3**
Thermostats Control Fan Coil and Zone Heating Valves on a Wide Variety of Heating and Cooling Combinations for Conditioned Space	SPDT	40° to 90°F	120 to 277VAC	Hi-Med-Low	Heat-Cool-Off	—	5	3	3	Johnson Controls	T46SAA-1C	**36P601**
Electric Low or Line Voltage												
Electric Auto Change Over Heat/Cool, 3-Speed Fan	SPDT	50° to 90°F	24 to 277	Hi-Med-Low	On-Off	Analog	4½	2⅞	1 1/16	Peco	TB155-046	**4MY97**
Electric Manual Change Over Heat/Cool, 3-Speed Fan	SPDT	50° to 90°F	24 to 277	Hi-Med-Low	Heat-Off-Cool	Analog	4½	2⅞	1 1/16	Peco	TA155-046	**4MY96**
Line Voltage												
Universal Digital Fan Coil Stat, 2-Pipe or 4-Pipe with Seasonal/Manual/Auto Heat/Cool Changeover	5 Relays	50° to 90°F	120 or 240	Hi-Med-Low-Auto-Off	Auto-Heat-Cool-Off	LCD	3 13/16	5 13/16	1⅛	Honeywell	TB6575A1000/U	**3RCK7**
Digital Fan Coil Stat, 2-Pipe with Seasonal or Manual Heat/Cool Changeover	4 Relays	50° to 90°F	120 or 240	Hi-Med-Low-Auto-Off	Auto-Heat-Cool-Off	LCD	3 13/16	5 13/16	1⅛	Honeywell	TB6575B1000/U	**3RCK8**
Low Voltage												
Universal Digital Fan Coil Stat, 2 or 4 pipe fan coil, Heat/Cool manual/auto changeover, 3-speed fan	5 Relays	50° to 90°F	20 to 30	Hi-Med-Low-Auto-Off	Auto-Heat-Cool-Off	LCD	3 13/16	5 13/16	1⅛	Honeywell	TB8575A1000/U	**3RCK9**
Gas, Oil, Electric, Heat Pumps, PTACs, and Fan Coil Equipment for 1H/1C Conventional, up to 2H/1C Heat Pump, 4-Pipe Fan Coil (3 Fan Speeds), 2-Pipe Fan Coil (3 Fan Speeds), 2-Pipe Fan Coil w/Auxilliary Heat (3 fan speeds), PTAC (High, Low Fan Speeds)	5 Relays	50° to 90°F	—	Auto-On, Fan Coil, Hi-Med-Low, PTAC, Hi-Low	Auto-Heat-Cool-Off	LCD	3¾	6	1⅜	Honeywell	TB7100A1000/U	**278Y50**
Low or Line Voltage												
2 or 4 Pipe Auto Heat/Cool, 3-Speed Fan With On-Auto Fan Switch	6 Relays	50° to 90°F	24VAC or 110 to 277VAC	Off-Hi-Med-Low	Auto-Heat-Cool-Off	Digital LCD	4½	5⅔	1½	Peco	TA170-001	**2NCA6**
	6 Relays	50° to 90°F	24VAC or 110 to 277VAC	Staged 3-Speed	Auto-Heat-Cool-Off	Digital LCD	4½	5⅔	1½	Peco	TB170-001	**2NCA7**
Fan Coil, 2 Pipe or 4 Pipe, Auto Heat/Cool, 3 Speed Fan, 7 Day Programmable	6 Relays	50° to 90°F	24VAC or 110 to 277VAC	On-Hi-Med-Low	Off-Heat-Cool-Auto-Setback	2.4 Sq in LCD Backlit Blue	4½	5⅔	1½	Peco	TA180-001	**6FFX4**
Fan Coil, 2 Pipe or 4 Pipe, Proportional (3 Wire Floating), 3 Speed Fan	Triac	50° to 90°F	24VAC	Off-Hi-Med-Low	Off-Heat-Cool-Auto	0.6 Sq in LCD Backlit	2 13/16	4½	1	Peco	TB158-100	**6FFX5**
Fan Coil, 2 Pipe or 4 Pipe, Proportional (0-10VDC or 4-20mA) 3 Speed Fan	Triac	50° to 90°F	24VAC	Off-Hi-Med-Low	Off-Heat-Cool-Auto	0.6 Sq in LCD Backlit	2 13/16	4½	1	Peco	TA168-100	**6FFX6**
Fan Coil, 2 Pipe or 4 Pipe, Proportional (0-10VDC), 3 Speed Fan	Triac	50° to 90°F	24VAC	Hi-Med-Low	Heat-Off-Cool	Analog	2 13/16	4½	1	Peco	TA167-007	**6FFX7**
Accessory												
SuitePro Wall Plate Adapter, Direct Mount On Junction Box, For Use With Mfr. No. TB6575A1000/U, TB6575B1000/U, TB8575A1000/U, TB7100A1000/U										Honeywell	50033847-001/U	**3RCL1**

**** 125VA pilot duty contacts.***


No. 4PU50

Columbus Electric®

Hazardous Location Thermostats

- DPDT
- 24 to 277V

Ideal for heating or cooling. No. 6GVX9 has remote capillary bulb. UL Listed for Class I Groups C and D and Class II Groups E, F, and G locations.

Thermostat Control Range	H	W	D	Inductive Amps @ 120V	Inductive Amps @ 240V	Contact Rating Resistive @ 120V	Contact Rating Resistive @ 240V	Mfr. Model	Item No.
50° to 90°F	5⅝"	6⅜"	—	4.6A	4.6A	22A	22A	EPETD8DJ	**4PU50**
40° to 110°F	5⅝"	6⅜"	4½"	4.6A	4.6A	22A	22A	HLT-2-G	**6GVX9**


No. 1UHG2


No. 2E574

Humidity Controls

Honeywell Home · Johnson Controls · Honeywell · Dayton

Provide user-set dew point control of humidification, dehumidification, or ventilation equipment.

Description	Voltage	Mounting	Adjustable Range	H (in.)	W (in.)	D (in.)	Brand	Mfr. Model	Item No.
Digital Humidifier/ Dehumidifier Controller	24	Wall or Return Duct	5 to 95% RH	5½	4¼	2¾	Honeywell Home	DG115EZIAQ	**3CHL5**
Humidifier Controller	24	Wall or Return Duct	10 to 60% RH	3¾	5¼	2⅜	Honeywell Home	H8908ASPST	**3CHL6**
Humidistat	120/240	Standard Outlet Box	10% to 90% RH	4 13/32	2⅝	½	Johnson Controls	W42AA-1C	**20XJ24**
	120/240	Vertical or Horizontal	0% to 70% RH	4 45/64	2 31/32	2 15/16	Johnson Controls	W43A-14C	**20XJ25**
Dehumidifier Controller	24	Wall or Return Duct	20 to 80% RH	2½	4	5½	Honeywell	H8908DSPST	**278Y71**
	115	Wall	20 to 80% RH	4¾	3	2⅛	Honeywell Home	H46C1166	**2E574**
	120	Plug-In Outlet	30 to 90% RH	5½	2⅞	2⅝	Dayton	1UHG2	**1UHG2**



No. 45JU29



No. 45JU44



No. 45JU42

Duct Smoke or Carbon Monoxide Detectors

AIR PRODUCTS AND CONTROLS — You in Control

- Detectors are 24VDC, 24VAC, 120VAC & 230VAC

Smoke Detectors—Suitable for high temperature applications and feature an internal dust filtering system that requires no additional screens or filters to clean. Models are universal voltage and you can interconnect up to 30 units. Nos. 45JU28 and 45JU29 have an innovative, toolless design that allows for quick installation and eases the loading and unloading of sampling/exhaust tubes. Nos. 45JU39 and 45JU40 are designed for no- or low-flow special applications and plenum spaces. Nos. 45JU41 and 45JU42 are weathertight, corrosion resistant, and feature a NEMA 4X rating.

Carbon Monoxide Detector—Unit can initiate an air handling unit shutdown when the CO concentration reaches a level considered hazardous by NFPA and OSHA standards.

Accessories—No. 45JU30 features lightweight, sectional tubes that you can connect together for the required length. Nos. 45JU57 and 45JU35 feature a multicolor LED to indicate Alarm, Pilot, and Trouble status. No. 45JU57 is mounted in a white, single-gang cover plate. No. 45JU35 is mounted in a white, double-gang plate with a sounder strobe assembly with a clear lens.



No. 45JU38



No. 45JU35

Description	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Smoke Detectors					
Ionization, Universal	32 to 158°	100 to 4000	All APC Remote Operation Accessories	SL-2000-N	**45JU28**
Ionization, Universal	32 to 158°	500 to 4000		SM-501-N	**45JU43**
Photoelectric, Universal	32 to 140°	100 to 4000		SL-2000-P	**45JU29**
Photoelectric, Universal	32 to 140°	500 to 4000		SM-501-P	**45JU44**
Ionization, Plenum	32 to 158°	0 to 2000		HS-100-N	**45JU39**
Photoelectric, Plenum	32 to 140°	0 to 3000		HS-100-P	**45JU40**
Ionization, Weathertight	-4 to 158°	100 to 4000		RT-3000-N	**45JU41**
Photoelectric, Weathertight	-4 to 140°	100 to 4000		RT-3000-P	**45JU42**
Carbon Monoxide Detector					
Kit, Includes SL-701 duct CO detector, MSR-50/CO remote accessory, 8" Fast exhaust tube,notched fast tube starter piece, mounting template, (3) 18" fast tube and (4) screws	32 to 158°	100 to 4000		SL-701 KIT	**45JU38**

Description	Voltage	Duct Width (ft.)	For Use With	Mfr. Model	Item No.
Accessories					
Smoke Detector Head Replacement, Photoelectric	—	—	All APC Duct Smoke Detectors	55000-328APO	**45JU32**
Smoke Detector Head Replacement, Ionization	—	—		55000-225APO	**45JU33**
Smoke Detector Tester, Asrosol	—	—	SM Series or open area Smoke Detectors	TG-1500	**45JU52**
Smoke Detector Tester, Asrosol with Nozzle	—	—	SL and RT Series Smoke Detectors	TG-2500	**45JU53**
Carbon Dioxide Detector Tester, Asrosol	—	—	SL-701 Series or open area CO Detectors	TG-701	**45JU54**
Sectional Sampling Tube, Pk. 3	—	1 to 8	All APC Duct Smoke Detectors	FAST TUBE	**45JU30**
Sampling Tube with Notch	—	0.5 to 1	SL and RT Series Smoke Detectors	STN-1.0	**45JU45**
	—	1 to 3		STN-2.5	**45JU46**
	—	3 to 5		STN-5.0	**45JU47**
	—	5 to 10		STN-10.0	**45JU31**
Sampling Tube	—	0.5 to 1	SM Series Smoke Detectors	STS-1.0	**45JU48**
	—	1 to 3		STS-2.5	**45JU50**
	—	3 to 5		STS-5.0	**45JU51**
	—	5 to 10		STS-10.0	**45JU49**
Weatherproof Enclosure	—	—		WP-1	**45JU55**
	—	—	SL Series Smoke Detectors	WP-2000	**45JU56**
Remote Horn with Pilot & Alarm LED	24VDC	—	All APC Duct Smoke Detectors	MS-RH/P/A	**45JU37**
Remote Key Test Station with Pilot & Alarm LED	24VDC	—		MS-KA/P/R	**45JU58**
Remote Horn, Key Test Station with Pilot, Alarm & Trouble LED	24VDC	—		MS-RH/KA/P/A/T	**45JU34**
Remote Horn, Key Test Station with Pilot & Alarm LED	24VDC	—		MS-RH/KA/P/R	**45JU36**
Remote Key Test Station with LED Indicating Alarm, Pilot and Trouble	24VDC	—		MSR-50RK/W	**45JU57**
Remote Key Test Station with LED Indicating Alram, Pilot and Trouble Sounder Strobe	24VDC	—		MSR-50RKAV/W/C	**45JU35**

Duct Smoke Detectors

SYSTEM SENSOR

- Detectors are 24VDC and 120VAC, except Nos. 2GWK9 and 5CGZ1 are also 24VAC

Feature 4-wire photoelectric integrated low air flow technology and versatile square or rectangular mounting. No. 415F91 has an integrated smoke test port and the sampling tube is durable corrosion-resistant steel. Innovative tube allows easy, toolless installation from the front or back of the detector. No. 415F91 is UL Listed.



No. 2GWK9



No. 415F91



No. 5CGZ1



No. 5CGZ2

Item	Type	Duct Width (ft.)	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Photoelectric Duct Smoke Detectors							
Duct Smoke Detector	Universal	—	-4° to 158°	100 to 4000	—	2GWK9	**2GWK9**
Duct Smoke Detector	Smoke Detector	—	-4° to 158°	100 to 4000	All System Sensor Remote Test Accessories, Fire Alarm Panel	DUCTSD	**415F91**
Duct Smoke Detector	Watertight, Photoelectric	—	-4° to 158°	100 to 4000	—	5CGZ1	**5CGZ1**
Accessories							
Multi Signaling Unit	—	—	14 to 140	—	Mfr. No. D4120, D4120W	RTS2-AOS	**5CGZ2**
Multi Signaling Unit	Signaling Device	—	14 to 140	—	Mfr. No. D4120, D4120W, D4S, D4P120	RTS2	**35Z779**
Photoelectric Power Board	Smoke Detector	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4P120	**35Z776**
Photoelectric Sensor	Smoke Detector	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4S	**35Z775**
Sampling Tube	Smoke Detector	Up to 1ft.	—	—	Mfr. No. D4120, D4120W, D4S	DST1	**35Z777**
Sampling Tube	Smoke Detector	1 a 2	—	—	Mfr. No. D4120, D4120W, D4S	DST1.5	**2GWL2**
Sampling Tube	Smoke Detector	2 a 4	—	—	Mfr. No. D4120, D4120W, D4S	DST3	**2GWL3**
Sampling Tube	Smoke Detector	4 to 8	—	—	Mfr. No. D4120, D4120W, D4S	DST5	**2GWL4**
Sampling Tube	Smoke Detector	8 to 12	—	—	Mfr. No. D4120, D4120W, D4S	DST10	**35Z778**
Strobe Light	Smoke Detector	—	14 to 140	—	Mfr. No. RTS2	AOS	**35Z780**



No. 278X90



No. 2E821

Hydronic Controls

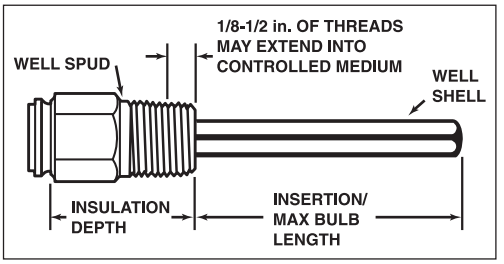
For use in gas- or oil-fired hydronic heating systems that require a 24VAC thermostat. Select models are compatible with 750mV thermostats.

High or Low Limit/SPST—Break the circuit on temp. rise. When used as a controller or a low limit, a separate high limit must be used.

Honeywell
Honeywell Home

Type	Temp. Range	Differential	Mounting	System Switching	Brand	Mfr. Model	Item No.
Immersion Controllers							
Boiler-Mounted, High Limit, Manual Reset	100° to 200°F	Manual Reset	Horizontal or Vertical	SPST	Honeywell	L4006E1125	**278X92** *
	100° to 240°F		Horizontal or Vertical	SPST	Honeywell Home	L4006E1117	**2GZN3**
	130° to 270°F		Horizontal or Vertical	SPST	Honeywell	L4006E1067	**278X88** *
			Horizontal or Vertical	SPST	Honeywell	L4006E1091	**278X91** *
			Horizontal or Vertical	SPST	Honeywell	L4006E1109	**278Y06**
Boiler-Mounted, High or Low Limit	40° to 180°F	5°F Fixed	Horizontal or Vertical	SPST	Honeywell Home	L4006A1959	**2GZL3** #
	100° to 240°F		Horizontal or Vertical	SPST	Honeywell	L4006A1009	**278X90** *#
			Horizontal or Vertical	SPST	Honeywell	L4006A1132	**278X95** *#
		5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell	L4006A1017	**278X89** *#
			Horizontal or Vertical	SPST	Honeywell	L4006A1967	**278X93** *#
			Horizontal or Vertical	SPST	Honeywell	L4006A1678	**278X98** *#
Boiler-Mounted, High or Low Limit, and Circulator Delay		5°F Fixed	Horizontal or Vertical	SPST	Honeywell	L4006B1007	**278X94** *#
High or Low Limit		5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell Home	L4006B1155	**2GZL7** *#
Immersion Well Mounting (Not Included), High Limit, Low Limit or Circulator Control			Horizontal or Vertical	SPST	Honeywell	L4006B1163	**278Y07** *#
			Horizontal	SPST	Honeywell	L4006A2007	**278Y01** *#
			Horizontal	SPDT	Honeywell Home	L6006A1145	**2E821** *
			Horizontal or Vertical	SPDT	Honeywell	L6006A1244	**278X87** *
Strap-On or Well Mount, High Limit, Manual Reset		Manual Reset	Horizontal or Vertical	SPST	Honeywell	L4006H1004	**278X99** *
Immersion Controller, Universal Electronic							
Aquastat(R) Relay, Universally Compatible, EnviraCOM-Enabled	130° to 240°F	5° to 20°F	Vertical	—	Honeywell	L7224U1002	**278Y05**
Immersion Controller, Multizone							
High Limit and Relay Control of Burner and Circulation Control	High Limit 120° to 240°F	8°F Fixed	Horizontal or Vertical	SPST	Honeywell	L8148J1009	**278Y02**
Triple Aquastat Relay with High Limit	High Limit 130° to 240°F, Low Limit 110° to 220°F	High Limit 10°F Fixed, Low Limit 10° to 25°F Adj.	Vertical	SPST	Honeywell Home	L8124E1016	**2GZJ7**
			Vertical	SPST	Honeywell Home	L8124G1020	**2GZJ8**
			Horizontal	SPST	Honeywell Home	L8124L1011	**2GZJ9**
			Horizontal	SPST	Honeywell	L8124C1003	**278X97**
Aquastat Controller							
Remote bulb Temperature Control	100° to 240°F	5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell Home	L4008A1015	**5TB81** †
Dual Aquastat Controllers							
High Limit and Circulator	High Limit 130° to 240°F, Low Limit 110° to 220°F	10°F Fixed	Horizontal	SPST	Honeywell	L4081B1096	**278X96** *
		High Limit 10°F Fixed, Low Limit 10° to 25°F Adj.	Horizontal	SPST	Honeywell Home	L4081B1047	**2GZK6** *
High and Low Limit			Horizontal	SPST	Honeywell	L4081A1023	**278Y03** *

**** 750 mV compatible. † Requires immersion well or bulb compression fitting for new installations. # When used as a controller or a low limit, a separate high limit must be used.***



Immersion Wells

Accessory for hot water immersion controls.

Honeywell Home
Johnson Controls

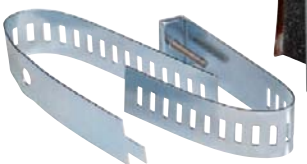
NPT	Bulb Dia.	Max. Insertion/ Bulb Length	Insulation Depth	Material	Brand	Mfr. Model	Item No.
¾"	⅜"	3"	1½"	Copper	Honeywell Home	121371B	**3XK90**
½"	⅜"	3"	3"	Copper	Honeywell Home	121371L	**3XK91**
¾"	⅜"	3"	3"	Copper	Honeywell Home	121371M	**3XK92**
½"	⅜"	2⅜"	2⁵⁄₁₆"	Brass Fitting, Copper Tube	Johnson Controls	TE-6300W-101	**36P618**
½"	½"	2⅜"	2⅛"	Stainless Steel	Johnson Controls	TE-6300W-102	**36P619**
½"	¹⁹⁄₆₄"	2⅜"	2⁵⁄₁₆"	Brass Fitting, Copper Tube	Johnson Controls	WEL11A-601R	**38Y209**
½"	7⁄16"	6¾"	4¹⁵⁄₁₆"	Brass Fitting, Copper Tube	Johnson Controls	WEL14A-602R	**38Y210**
½"	7⁄16"	7⅜"	5¹³⁄₁₆"	Brass Fitting, Copper Tube	Johnson Controls	WEL14A-603R	**38Y211**
½"	¹⁹⁄₆₄"	2⅜"	—	Brass	Johnson Controls	WZ-1000-5	**20XJ26**



No. 2E859



No. 38Y073



Honeywell Home
White-Rodgers
Johnson Controls
Beckett

Boiler Controls

Indoor Strap-On—Provide control without tapping boiler or draining system. Mounting strap provides any-position mounting without leveling on a 2"- to 6"-dia. pipe. Nos. 2E145 and 38Y073 are UL Listed and CSA Certified.

Beckett—Features include backlit display touch pad for programming temperature limits and differentials, memory storage, and diagnostics for troubleshooting. Controls are UL Listed.

Description	Switch Action	Brand	Mfr. Model	Item No.
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 65 to 200°F, Diff. 5 to 30 Adj.°F, SPDT	Open/Close on Temp. Rise	Honeywell Home	L6006C1018	**2E859**
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 100 to 240°F, Diff. 10°F, SPDT	Open/Close on Temp. Rise	White-Rodgers	1127-2	**2E145**
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 100° to 240°F°F, Diff. 7°F, SPDT	Open/Close on Rise	Johnson Controls	A19DAC-1C	**38Y073**
Flat Surface, Control Range 200° to 240°F°F, Diff. 3.5°F, SPDT	Close Differential	Johnson Controls	A19DAF-2C	**20XJ41**
AquaSmart™ Oil Control, DOE 2012 Compliant	—	Beckett	7610A0001GU	**36L587**
AquaSmart™ Gas Control, DOE 2012 Compliant	—	Beckett	7610B0001GU	**36L588**
Wireless Temperature Module, For Use with AquaSmart™ Oil & Gas Controls	—	Beckett	7600WTMGU	**36L589**

Single-Phase Line Voltage Monitors

Antishort cycle protection. Detect high/low voltage. No. 32MY19 adds surge protection.



No. 5KPX9

Description	Voltage	Time Delay	N.O. Output (A)	Mfr. Model	Item No.
1-Ph., ASC Protection	95 to 270	Adj. 6 to 600 Sec.	5	ICM491	3UW94
1-Ph., Programmable	80 to 300	Adj. 0 to 720 Sec.	10	ICM492	5KPX9
1-Ph., Surge Arrestors	200 to 250	0 to 10 min.	40	ICM493	32MY19
				ICM494	32MY20 *

** Replacement board only for No. 32MY19.*

Plug-In 3-Phase Line Voltage Monitor

Protects 3-phase motors and equipment from voltage faults. LED indicates high/low/unbalanced voltage, phase loss/reversal, and power interruptions. 100-msec response time. 50/60 Hz.



Voltage	% Volts Unbalance	N.O. Output (A)	NC Output (A)	Mfr. Model	Item No.
190-480 VAC	2-8 User Select	10	10	ICM408	6JYL2
190 to 600	2 to 20, Adj.	10	6	ICM455	32MY21

Head-Pressure Controls

ICM—Feature high-temp. bypass, heat pump override, and adjustable hard-start timing and motor cutout speed. Indicator lights for full or modulated motor voltage. Nos. 4MG74 and 5KPX8 require separate 24VAC source; Nos. 4MG75 and 4MG76 have built-in 24VAC transformer.

Johnson Controls—R410A compatible. Weather-resistant, durable motor speed controls for approved single-phase, PSC motors commonly used in many refrigeration and air conditioning condenser fan applications. No. 20XJ08 allows easy configuration of P266 Series controllers via a PC.



No. 4MG75

Input Volts AC @ 60/50 Hz	Triac Output Amps	Hard Start Timing (sec.)	Brand	Mfr. Model	Item No.
120 to 480	0.1 to 10.0	0.1 to 5.0	ICM	ICM325HNC	4MG74
120 to 240	0.1 to 10.0	0.1 to 5.0		ICM326HNC	4MG75
120 to 600	10	.1 - 5		ICM333	5KPX8
208/240	8	2	Johnson Controls	P266AAA-100C	20XJ06
	8	2		P266ABA-100C	40G351
	8	2		P266ACA-100C	40G352
460/575	4	2		P266BCA-100C	40G353
	4	2		P266BHA-100C	40G354
	4	2		P266BHA-2K	20XJ07
480	0.1 to 10.0	0.1 to 5.0	ICM	ICM327HNC	4MG76
Accessories					
Pressure Transducer, 0 to 508 PSI			Johnson Controls	P266SNR-1C	40G355
Pressure Transducer, 0 to 754 PSI				P266SNR-2C	40G356
Software for P266 Condenser Fan Speed Control				P266PRM-1K	20XJ08

Bypass Timer

- Universal input voltage: 18-240VAC, 1A, 10A inrush

Bypasses a low-pressure switch or an oil-pressure switch on startup.



Time Delay	Mfr. Model	Item No.
10-1000 Seconds	ICM175	3UW85

3-Phase Line Voltage Monitors

Can detect voltage imbalance, high/low voltage, phase loss, reversal, incorrect sequencing, and rapid short cycling. UL Recognized (E60605).

No. 3UW93—Programmable 25-fault memory storage. Independent high/low voltage settings.



No. 3UW93

Display	Volts 50/60 Hz	% Volts Unbalance	Control Volts (AC)	N.O. Output (A)	NC Output (A)	Cross-Reference* Diversified Model	Motorsaver Model	SSAC Model	TimeMark Model	Wagner Model	Watsco Model	Mfr. Model	Item No.
LCD	190-630	2 to 25, Adj.	18 to 240	10	6	AC-2020, AC-301, AC-302	455	QLM/QLV	265	WPC-800	EAC-800	ICM450	3UW93
—				20	10						EAC-8000	ICM400	3UW89

** Physical dimensions vary by manufacturer.*

Universal Capacitors

¼" brass-plated dual male terminals for best reliability, conductivity and corrosion resistance. Includes jumper wires to combine individual values into desired MFD rating. 60/50 Hz. UL Recognized (E133000).

No. 2ELT2



Description	MFD Rating	Cap. Voltage	Dia.	Case Height	Mfr. Model	Item No.
Motor Run Capacitor	2.5-67.5	370-440VAC	2½"	4½"	Turbo 200	2ELT2
	5-97.5	370-440VAC	2½"	5¾"	Turbo 200X	2ELT3
	2.5-15	370-440VAC	1¾"	2⁹⁄₁₆"	Turbo 200 Mini	2ELT4
Motor Start Capacitor	23-302	125VAC, 165VAC, 250VAC, 330VAC	2½"	6"	Turbolytic 50	2ELT5

Surge Protectors/Arrestors

- 1-phase, 120-240V

Protect air conditioners, generators, motors, and appliances from power surges and lightning. No. 32ZN47 has an LED showing that surge protection is present, and a second LED indicating that device has power and is properly grounded.



No. 32MY23

Max. Surge Current Per Phase	L	W	D	Brand	Mfr. Model	Item No.
100kA	4.50"	2.75"	2.25"	ICM	ICM517	32MY23
60kA	5.00"	3.50"	1.75"	5-2-1 Compressor Saver	SPD60	32ZN47

Refrigeration and Air Conditioner Start Assist Kits

Nos. 32ZN44 to 32ZN46 can reduce air conditioner compressor start-up time up to 50% and lower energy consumption. Nos. 4E239 to 4E241 are for residential and commercial air conditioning units, heat pumps, and room air conditioners. No. 4MG78 replaces 3-wire potential relay and capacitor. No. 4E238 is used with residential and commercial refrigerators and freezers. Nos. 20LP97 to 20LP99 allow OEM-style, 3-wire installation and are for single-phase air conditioner or refrigeration units and hard-starting compressors under low voltage conditions.



No. 4E238

For Use With Compressors	HP	Voltage	Brand	Mfr. Model	Item No.
1-3 tons A/C Units	4 to 5	208 to 240	5-2-1 Compressor Saver	CSRU1	32ZN44
3.5-4-5 tons A/C Units	3.5 to 5	208 to 240		CSRU2	32ZN45
4-5 tons A/C Units	4 to 5	208 to 240		CSRU3	32ZN46
Compressors	½ to 5	90 to 240	ICM	ICM866U	32MY24
PSC & CSIR	½ to 10	90-277	Supco	SPP5	4E239
	½ to 10	90-277		SPP6	4E240
	1 to 10	170-277		SPP8E	4MG78
	1½ to 10	90-277		SPP7S	4E241
Reciprocating, Scroll, & Rotary	1 to 3	208-265		MPR5	12H941
	3½ to 5	208-265		MPR1	12H940
RSIR, CSIR, PSC, & CSR	½ to ⅓	115		RC0810	13E401
	¼ to ⅓	115		RC0410	4E238
208/240V 1-Phase, Scroll, & Reciprocating	1 to 3	208 to 240		3W1	20LP97
	3½ to 4½	208 to 240		3W2	20LP98
	4 to 5	208 to 240		3W3	20LP99

Scan. Order. Done.
Details on page A1.









Robertshaw® Honeywell
White-Rodgers™
Honeywell Home

Gas Valves

Description	Mfr. Model	Item No.
Kits		
LP Adapter Kit, Converts NG to LP Gas, For Use with Nos. 2E401, 2E402, 2E854	F92-0737	**2E731**
LP Regulator Kit, For Use With Robertshaw 700 Series Gas Valves	1751-013	**26X372**
Millivolt Kit, For Use With Millivolt Wall Furnaces, In-The-Floor Furnaces, and Fireplaces, Includes (2) ½ x ⅜" Reducer Bushings, Mechanical Thermostat, Pilot Uni-Kit, Millivolt Gas Valve, Gas Valve Cross Reference Book	710-296	**44C529**
Universal Kit, Includes Gas Valve, Universal Nitride Ignitor, Universal Flame Sensor, Universal Ignition Module, Universal Air Sensing Switch, Canvas Carry Bag and Cross Reference guides	UNI-KIT360	**44C530**

BtuH Cap.	Valve Type	Coil Volts	Gas Type	Inlet Size	Outlet Size	Brand	Mfr. Model	Item No.	
Universal, Intermittent Pilot, Hot Surface Ignition, Direct Spark Ignition									
720,000	Slow Opening	24	NG	1"	1"	Robertshaw	700-059	**1TGE3**	
415,000	Slow Opening	24	NG/LP	¾"	¾"	Honeywell	VR8345K4809	**278Y64**	
415,000	Std. Opening, 2-Stage	24	NG/LP	¾"	¾"	Honeywell	VR8345Q4563	**278Y65**	
230,000	Fast Opening	24	NG/LP	½"	¾"	White-Rodgers	36H32-304	**16X612**	
300,000	Fast Opening	24	NG/LP	¾"	¾"	White-Rodgers	36H32-423	**1YRN7**	
300,000	Std. Opening	24	NG/LP	¾"	¾"	Honeywell Home	VR8345M4302	**4CZ56**	
170,000	Fast Opening	24	NG/LP	½"	½"	Robertshaw	722-079	**1TGD7**	
150,000	Std. Opening	24	NG/LP	½"	½"	Honeywell Home	VR8245M2530	**1RZY5**	
150,000	Std. Opening	24	NG/LP	½"	¾"	Robertshaw	720-079	**6KXC8**	
Intermittent Pilot									
150,000 to 200,000	Slow Opening	24	NG/LP	½"	½"	Honeywell Home	SV9502H2522	**36WH81**	
Hot Surface Ignition									
300,000	Slow Opening	24	NG/LP	¾"	¾"	White-Rodgers	36H33-412	**44R202**	
140,000	Fast Opening	24	NG/LP	½"	½"	White-Rodgers	36G22-254	**30PL23**	
140,000	Fast Opening	24	NG/LP	½"	½"	White-Rodgers	36J54-214	**30PL26**	
140,000	Slow Opening	24	NG/LP	½"	½"	White-Rodgers	36J24-214	**30PL25**	
140,000	Slow Opening	24	NG/LP	½"	½"	White-Rodgers	36J24-614	**30PL27**	
140,000	Slow Opening	24	NG/LP	½"	½"	White-Rodgers	36J55-214	**30PL28**	
140,000	Slow Opening	24	NG/LP	½"	½"	White-Rodgers	36J55-614	**30PL29**	
Direct Spark Ignition									
150,000 to 200,000	Slow Opening	24	NG/LP	½"	½"	Honeywell Home	VR8215T1502	**36WH79**	
150,000 to 200,000	Std. Opening	—	NG/LP	½"	½"	Honeywell Home	VR8215S1503	**48KT51**	
140,000 to 200,000	Std. Opening, 2-Stage	—	NG/LP	½"	½"	Honeywell Home	VR9205Q1507	**48KT47**	
Standing Pilot									
335,000	Std. Opening	750mV	NG/LP	¾"	¾"	Honeywell	VS820M1309	**278Y59**	
300,000	Fast Opening	24	NG/LP	¾"	¾"	Robertshaw	700-406	**4E125**	
300,000	Fast Opening	120	NG	¾"	¾"	Robertshaw	700-454	**4E126**	
280,000	Fast Opening	750mV	NG/LP	¾"	¾"	White-Rodgers	36C03U-433	**2E401**	*
280,000	Fast Opening	24	NG/LP	¾"	¾"	White-Rodgers	36C03-433	**2E402**	
250,000	Std. Opening	750mV	NG	½"	¾"	Honeywell	VS820A1047	**278Y61**	
250,000	Std. Opening	24	NG	½"	¾"	Honeywell	V800A1476	**278Y58**	
240,000	Fast Opening	24	NG/LP	½"	¾"	Robertshaw	700-400	**4E123**	
240,000	Fast Opening	24	NG/LP	½"	¾"	Robertshaw	700-402	**4E124**	
230,000	Fast Opening	750mV	NG/LP	½"	¾"	White-Rodgers	36C03U-333	**2E854**	*
230,000	Fast Opening	24	NG/LP	½"	¾"	White-Rodgers	36C03-300	**1RC51**	
230,000	Fast Opening	24	NG/LP	½"	¾"	White-Rodgers	36C03-333	**2E725**	
200,000	Std. Opening	24	NG/LP	¾"	¾"	Honeywell	VR8300A4516	**278Y66**	
200,000	Fast Opening	750mV	NG	¾"	¾"	Robertshaw	700-506	**4E128**	
190,000	Std. Opening	24	NG/LP	½"	¾"	Honeywell	VR8300A3518	**278Y67**	
150,000	Fast Opening	24	NG/LP	½"	¾"	Robertshaw	720-400	**4E287**	
150,000	Fast Opening	24	NG/LP	½"	¾"	Robertshaw	720-402	**4E400**	
150,000	Fast Opening	24	NG/LP	¾"	¾"	Robertshaw	720-406	**4E288**	
100,000	Fast Opening	750mV	NG	½"	½"	Robertshaw	700-502	**4E127**	†
100,000	Slow Opening	24	NG/LP	½"	½"	Robertshaw	700-434	**6KXD0**	
50,000 to 400,000	Fast Opening	24	NG/LP	¾"	¾"	White-Rodgers	36C84-912	**48FX09**	
50,000 to 400,000	Slow Opening	24	NG	¾"	¾"	White-Rodgers	36C94-906	**48FX10**	
2-Stage Intermittent or Hot Surface Ignition									
300,000	Fast Opening	24	NG/LP	¾"	¾"	White-Rodgers	36H64-463	**1YRN8**	
Low Profile and Capacity									
70,000	Std. Opening	750mV	NG/LP	½"	½"	Robertshaw	710-502	**6KXC7**	
70,000	Std. Opening	750mV	NG/LP	½"	½"	Robertshaw	710-501	**6KXD6**	
70,000	Std. Opening	—	NG/LP	½"	½"	Robertshaw	710-205	**6KXC9**	
Pilot Safety Valve									
142,000	Gas Pilot Safety	30mV	—	½"	½"	White-Rodgers	764-742	**2E374**	

**** Vented applications only. † ECO adapter included.***





Description	Replaces	Mfr. Model	Item No.
Electric Cooking Controls			
High Temperature Limit, 125/250/480 VAC, For Use With Broaster AB-6962, Vulcan-Heat 110-840-2 and 410840-2	LCC-36-060-00-00	5225-010	**6KXE6**
High Temperature Limit, 125/250/480 VAC, For Use With Manual Reset Button	Pitco #PP10084, DSC 13245	5225-112	**6KXJ0**
High Temperature Limit, 125/250/480 VAC, For Use With Wells 38656	LCH-J6-024-00-00	5225-054	**6KXH9**
Infinite, 120/240 VAC	INF-120-212	5500-103	**26X378**
Infinite, 120/240 VAC	INF-120-519	5500-102	**26X373**
Infinite, 120 VAC	INF-120-599B	5500-113	**26X381**
Infinite, 120 VAC	INF-120-1152	5500-135	**6KXE9**
Infinite, 120 VAC, For Use With Duke 2074	INF-120-65	5502-303	**6KXF0**
Infinite, 120 VAC, For Use With Vulcan Hart 411503-1	INF-120-4339	5502-474	**6KXF5**
Infinite, 120 VAC, For Use With Wells 30570	INF-120-975	5502-309M	**6KXF1**
Infinite, 208 VAC, For Use With Duke 2076	INF-208-359	5502-347	**6KXF2**
Infinite, 240 VAC	INF-240-1153	5500-235	**6KXK2**
Infinite, 240 VAC	INF-240-74	5502-359	**6KXK3**
Infinite, 240 VAC, For Use With Savory 12355	INF-240-5518	5502-472M	**6KXF4**
Infinite, 240 VAC, For Use With Wells 50662	INF-240-1010	5502-370M	**6KXF3**
Thermostat, 120/240 VAC	Z90644	5210-124	**6KXG2**
Thermostat, 120/277 VAC	—	5000-813	**6KXG0**
Thermostat, 120/277 VAC	—	5300-146	**6KXJ4**
Thermostat, 120/277 VAC	5000-210, 5020-003, F16-175	5000-811	**6KXH7**
Thermostat, 120/277 VAC	5300 Series	5300-041	**6KXJ2**
Thermostat, 120/277 VAC	American Permanent Ware 56527, KA-1048-36	5300-015	**6KXJ1**
Thermostat, 120/277 VAC	McGraw Edison 18A1874	5000-851	**6KXH8**
Thermostat, 120/277 VAC	Ranco G1 Series	5300-735	**6KXK1**
Thermostat, 120/277 VAC	SP-184	5300-612	**6KXJ6**
Thermostat, 120/277 VAC	SP-188	5300-618	**6KXJ7**
Thermostat, 120/277 VAC	SP-197	5300-651	**6KXJ9**
Thermostat, 120/277 VAC, For Use With Duke Mfg. 012081 & 012173, F16-761	—	5300-027	**6KXG1**
Thermostat, 120/277 VAC, For Use With US Range #227141	—	5300-711	**6KXK0**
Thermostat, 250 VAC, For Use With J.C. Pitman (Pitco)	EA3-44	5300-100	**6KXE7**
Thermostat, Millivolt, For Use With KX-87, KX-299, For Millivolt Gas Systems Only	KX-87, KX-299	5300-401	**6KXE8**

Cooking Controls

Robertshaw®

Precise, high-quality replacements for OEM parts.

Description	Replaces	Mfr. Model	Item No.
Gas Cooking Controls			
Electromagnet Replacement Kit, For Use With 1710 Series Body Inlet And Outlet Model-TS "J" Head	1720-803	1720-801	**6KXG8**
Electromagnet Replacement Kit, For Use With 1710 Series Body Outlet Only Model-TS "K" Head	1720-804	1720-802	**6KXG9**
Gas Solenoid Valve, For Use With Commercial Cooking Applications	FJT-29	4075-029	**6KXH2**
Gas Valve, For Use With Commercial Cooking Applications	A.O. Smith B-5183	700-804	**6KXF6**
Igniter, For Use With Gas Cooking Oven	7432P025-60, 7432P052-60/K 08067970 142-224, 336650, 4163781, 4392019, 316T023P03/P07/P10/P12/ S01,F16-743, 7432P062-60/K, 08067970, 316t023P03/ P07/P10/P12/801	41-207	**30ZZ06**
Igniter, For Use With Robertshaw HVN Series or an Eaton NC4100 Series Gas Valve	Gaffers And Sattler 18601, 359-199, Hardwick 01-055-041-99, Hardwick 01-055-041-99, IGN-4, GR411, F16-747	41-204	**6KXD9**
Incinerator Target Pilot, For Use With All Thermocouples	Factory # 2CH-10	1830-115	**6KXH1**
	Factory # 2CH-2	1830-210	**6KXH0**
Spark Ignition Module, For Use With Oven Ignition	Use on Jade Range	41-521	**6KXE0**
Thermostat, For Use With 700-800 Series Diaphragm Gas Valve	Consolidated G-111, DCS 13244, Dynamic Cooking GS-A6-030-18-00, Pitco GSA60301814	4290-006	**6KXH6**
Thermostat, For Use With Commercial Cooking Applications	BJ and BJWA	4200-007	**6KXE1**
Thermostat, For Use With Fryers, Ovens, And Sterilizers	Garland 8009, Hobart 110837-2, Hobart 410837-, Hobart 11327	4290-005	**6KXF9**
Thermostat, For Use With Ovens, Fryers, Sterilizers	Bakers Pride M1005X, Consolidted G-140,	4200-503	**6KXH5**
Thermostat Kit For Griddles, For Use With Commercial Cooking Applications	BJ and BJWA	4350-028	**6KXE4**
		4350-128	**6KXE5**
Thermostat Kit For Ovens, For Use With Commercial Cooking Applications		4350-027	**6KXE2**
		4350-127	**6KXE3**

Type	Voltage	Prepurge Time (sec.)	Retries	Brand	Mfr. Model	Item No.
Direct Spark Ignition	24	34	3	Robertshaw	780-501	1TGE1
Hot Surface Ignition	24	30	0 to 2	White-Rodgers	50E47-843	3XA74
		30	2	White-Rodgers	50A55-843	3XA75
		30	2	White-Rodgers	50A65-843	3XA76
		32	1 or 3	ICM	ICM283	5KPX5
	120	32	1 or 3	Honeywell Home	S8910U3000	48KT46
Intermittent Pilot Ignition	24	0 or 30	Continuous	ICM	ICM290A	5KPX6
		360	3	Robertshaw	780-845	1TGD9
		Up to 30	Continuous	Honeywell Home	S8610U3009	1RZZ2
Lockout, 1 Rod or 2 Rod Sensing		360	3	Robertshaw	780-002	4E959
Nonlockout, 1 Rod or 2 Rod Sensing		—	Continuous	Robertshaw	780-001	4E958 *
Spark Ignition		45	3	Robertshaw	780-003	6KXD5
Spark Ignition, Lockout		—	Continuous	Robertshaw	780-735	6KXD4
Spark Ignition, Nonlockout		—	Continuous	Robertshaw	780-715	6KXC6
Spark to Pilot		0 or 30	0, 2, or Continuous	White-Rodgers	50D50-843	16X611
Universal Integrated Two-Stage	24VAC	15	2	White-Rodgers	21V51U-843	16X596
		15	2	White-Rodgers	21M51U-843	16X595
Universal Single Stage		30	2	White-Rodgers	50M56U-843	16X594

*** NG only.***

Robertshaw® ICM CONTROLS™ White-Rodgers™ Honeywell Home

Universal System Controls

- ¼" quick-connect
- Gas type: LP/NG

No. 3XA74 is universal for comparative silicon carbide modules. Features interchangeable program keys. No. 1RZZ2 is for single- and dual-rod remote sense applications.

Note: For more information on included components and features, go to Grainger.com®.



No. 48KT46

Robertshaw® Honeywell

Intermittent Pilot Ignition Systems and Conversion Kits



Convert conventional standing pilot systems to intermittent pilot systems. No. 4E397 has 60-sec. max. lockout time, and shutoff is 100% after 3 trials for ignition. No. 4E396 has no max. lockout time with continuous trial for ignition and is not 100% shutoff. No. 1TGE4 is 100% shutoff with 90-sec. max. ignition trial; continuous retry.

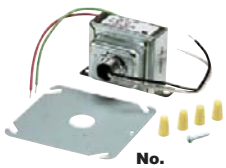
Note: For kit contents, go to Grainger.com®.

Description	Control Volts	BtuH Cap.	Gas Type	Inlet/ Outlet (in.)	Brand	Mfr. Model	Item No.
Intermittent Pilot Gas Ignition Systems	24	170,000 / 272,000	LP/NG	1/2 X 1/2	Robertshaw	712-005	1TGE4
		200,000	NG	1/2 x 3/4	Robertshaw	712-017	4E396
		200,000 / 320,000	LP/NG	1/2 x 3/4	Robertshaw	712-008	4E397
Standing Pilot Conversion Kits		150,000	LP/NG	1/2 x 1/2	Honeywell	Y8610U4001	278Y56
		270,000	LP/NG	1/2 x 3/4	Honeywell	Y8610U6006	278Y57

Universal-Mount Transformers

Robertshaw®

- 8" primary and secondary leads, except screw terminals on No. 6JZX6
- UL Class 2 rated
- 1-phase, 60/50 Hz
- Thermal fuse protection
- Mounting: foot, 4 x 4 plate, or hub



No. 6JZX4

Indoor enclosure. UL Listed and CSA Certified.

Input Voltage	Output Voltage	VA Rating	Mfr. Model	Item No.
120VAC	24VAC	40VA	620-403	6JZX4
208VAC, 240VAC	24VAC	40VA	620-404	6JZX5
120VAC, 208VAC, 240VAC	2.5VAC, 12VAC, 24VAC	48VA	620-402	6JZX3
	24VAC	50VA	620-502	6JZX7
	28VAC	50VA	620-501	6JZX6
120VAC, 208VAC, 240VAC, 480VAC	24VAC	75VA	620-503	6JZX8

Furnace Control Boards

Direct wire-for-wire replacement of OEM control boards.

ICM CONTROLS™ White-Rodgers™

Description	Replaces	Brand	Mfr. Model	Item No.
Defrost Control Board	Carrier Mfr. No. HK32EA001, HK32EA003, HK32EA008	ICM	ICM350	32MY16
Fan Blower Control	Mfr. No. PCBDM-133	ICM	ICM314C	53YK29
	A-1: 5893 Rheem: 42-22515-01, 42-22515-02, 42-22515-03 Bard: 8201-056 Snyder General/ICP: 1395336 Mars: 32393	ICM	ICM255	5KPW9
	Carrier: CES0110019, HH84AA001, HH84AA003, HH84AA005, HH84AA009, HH84AA014, HH84AA015, HH84AA021 and Robertshaw: 695-101	ICM	ICM275	5KPX1
	Carrier Mfr. No. 302075-3, CES01100017, CES01100018, HH84AA010, HH84AA011, HH84AA012, HH84AA013, HH84AA020, P771-7002, and Robertshaw Mfr. No. 695-100	ICM	ICM271	5KPX0
Fan Blower Control Board	Carrier Mfr. No. HH84AA017, HH84AA018	ICM	ICM278	32MY15
Furnace Control Board	Carrier CES0110074-01	ICM	ICM2804	40N232
	Carrier LH33WP003 (DSI Control Board)	ICM	ICM291	40N229
	Carrier Mfr. No. 325878-751, HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016, HK42FZ034, ICM282A	White-Rodgers	50M56U-751	38XJ62
	Carrier Mfr. No. HK42FZ017	ICM	ICM2807	32MY17
	Goodman B18099-26S, PCBBF112S	ICM	ICM286	40N226
	Lennox for all BCC1, BCC2 and BCC3 Circuit Boards	ICM	ICM289	40N228
	Lennox Models 100925-01, 100925-02, 100925-03, 10M93, 32M8801, 56L84, 56L8401, 24L8501, 63K89, 63K8901, 97L4801, , 17W9201, 23W5101, 30W2501, 69M0801, 69M1501, 83M001, White Rodgers Models 50A66-843, 50A62-121, 50A66-122, 5066-123, 50A65-121, 50A62-120, 50A62-820, 50A66-123	White-Rodgers	21D83M-843	44R199
	Mfr. No. 50T35-730, B1809913, B18099-06, B18099-08, B18099-10, CNT04664	White-Rodgers	50T35-743	44R198
	Nordyne 624631	ICM	ICM2805A	40N233
	Replaces All Spark, Non-Integrated Modules	White-Rodgers	50D50-842	30PL30
	Rheem 62-24084-82	ICM	ICM288	40N227
	Rheem 62-24140-04 (DSI Control Board)	ICM	ICM292	40N230
	Trane Mfr. No. CNT02789, CNT02891, CNT03799, D341122P01, D341235P01, D341235P03, White-Rodgers 50A55-474, 50A55-476, 50A55-571	White-Rodgers	50A55-3797	38XJ65
	Trane Mfr. No. CNT03076, CNT03098, CNT05164, CNT05165, D341213P01, D341396P03, D341396P04, D3411396P05	White-Rodgers	50A65-5165	38XJ63
	York/Evcon 7990-319P	ICM	ICM2801	40N231
	York Mfr. No. 265901, 265902, S1-03100662000, S1-03101250000, S1-03101266000, S103101267000, S1-03101267001, S103101284000, S103101933000, S103101972000, S103109167000, S13310102956000, S!33103010000	White-Rodgers	50A56-956	38XJ64
	York Mfr. No. S1-331-03010000, S1-331-02956000	ICM	ICM2808	32MY18
Furnace Control Module	Carrier: CES011005700, CES011005701, CES011005702, CES0110020, CES0110048, HH84AA016	ICM	ICM281	5KPX3
	Carrier: HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016, 325878-751	ICM	ICM282A	5KPX4
	Goodman/Janitrol: B18099-06, B18099-08, B18099-10, B18099-13, B18099-13S, UTEC: 1012-933D, Texas Instruments: 41F-5, White-Rodgers: 50T35-730, 50T35-743	ICM	ICM280	5KPX2
Integrated Hot Surface Control	Drop In Direct Replacement Ignition Control for Goodman 0130F00005, 0130F00005S, B1809926, B1809926S, PCBBF110, PCBBF110S, PCBBF112, PCBBF112S, PCBBF123, PCBBF123S, White-Rodgers 50T55-289 and 50A55-289	White-Rodgers	50A55-743	29TH96
	Goodman Replacement Integrated Hot Surface Control 0130F00006, 0130F00006S, PCB00109, PCBBF109, PCBBF122, PCBBF122S, PCBBF132, PCBBF132S, 50M56-289	White-Rodgers	50M56-743	29TH95
	Lennox Models 30W2501, 100925-01, 100925-02, 100925-03, 17W92, 17W9201, 23W51, 23W5101, 30W25, 30W2501, 69M08, 69M0801, 69M15, 69M1501, 50A66-122, 50A66-123, 50A66-743	White-Rodgers	50A66-743	29TH94

★ GA GRAINGER APPROVED

Electric Water Heater Thermostats and Limit Control

UL and C-UL Recognized.

Thermostats—Terminal 1 is common. No. 6XZV2 closes circuits 1 and 4 and opens circuits 1 and 2 on temperature rise.

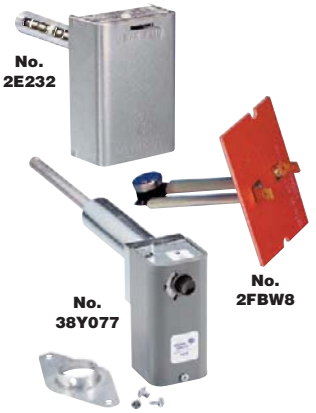
Limit Control/Thermostats—Factory assembled.

Limit Control—Manual reset.

Description	Switch Action	Temp. Range (F)	Contact Rating Noninductive 120/240V	277V	480V	Pilot Duty 120/480V (VA)	Watts 120V	Watts 240V	Item No.
Thermostat SPST	Open on Rise	90 to 150	30A	25A	12.5A	125	3000	6000	6XZV1
Thermostat SPDT	Open 1-2 on Rise	90 to 150	30A	25A	12.5A	125	3000	6000	6XZV2
Limit Control/ Thermostat	Open on Rise	90 to 150 (170 Fixed)	30A	25A	12.5A	125	3000	6000	6XZV4
	Open 1-2 on Rise	90 to 150 (170 Fixed)	30A	25A	12.5A	125	3000	6000	6XZV5
Limit Control DPST	Open on Rise	170 fixed	40A	40A	25A	125	—	—	6XZV3



No. 6XZV3



Honeywell Home | White-Rodgers | Supco | Johnson Controls

Plenum-Mount Fan and Limit Controls

All except flush-mount models have insertion-type elements.

FAN AND LIMIT

Single-element fan and limit combination fits applications with narrow space limitations.

Honeywell—UL Listed.

White Rodgers—UL Recognized and CSA Certified.

LIMIT

- Pilot-duty rated
- Resistive amps: 15 at 120V, 10 at 240V
- Voltage: 120/240/480

UL Listed and CSA Certified.

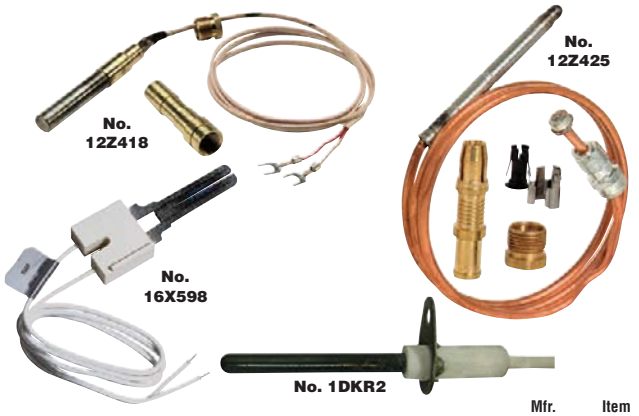
WARM AIR

- Max. element temp.: 300°F
- Pilot duty: 125VA at 24 to 600VAC

Features adjustable dial stop and trip-free reset lever. UL Listed.

Element Insertion Length (in.)	Differential	Temp. Range (F)	Brand	Mfr. Model	Item No.
Fan and Limit Control - Adjustable Temp., Auto Reset					
5	Fan Adj. 22°F, Limit Fixed 25°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2228	**2E818**
5	Fan Adj. 15°F, Limit Fixed 25°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-35	**2E232**
8	Fan Adj. 22°F, Limit Fixed 25°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2236	**2E819**
8	Fan Adj. 15°F, Limit Fixed 25°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-90	**2E372**
9	—	100 to 350	White-Rodgers	416-4	**48FX06**
11	Fan Adj. 15°F, Fan Fixed 25°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-78	**2E139**
11½	Fan Adj. 22°F, Limit Fixed 25°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2210	**2E820**

Element Insertion Length (in.)	Switch Opens @ (°F)	Differential	Inductive Amps @ 120V	Inductive Amps @ 240V	Brand	Mfr. Model	Item No.
Limit Control - Fixed Temp., Auto Reset							
1⅞	170	40°F			Supco	SHL506	**2FBX3**
	140	30°F			Supco	SHL507	**2FBX4**
	170	20°F			Supco	SHL512	**2FBX6**
	170	40°F			Supco	SHL501	**2FBW8**
	170	40°F			Supco	SHL513	**2FBX7**
	180	30°F			Supco	SHL502	**2FBW9**
	180	40°F			Supco	SHL514	**2FBX8**
3⅛	190	20°F	3	1.5	Supco	SHL508	**2FBX5**
	190	40°F			Supco	SHL503	**2FBX1**
	200	40°F			Supco	SHL515	**2FBX9**
	210	40°F			Supco	SHL516	**2FBY1**
	220	40°F			Supco	SHL517	**2FBY2**
	240	40°F			Supco	SHL504	**2FBX2**
	250	40°F			Supco	SHL518	**2FBY3**
Warm Air Limit Control - Manual Reset							
Adjustable Temp., 25° to 215°F							
9⅝	—	—	16A	8A	Johnson Controls	A25AN-1C	**38Y077**



Robertshaw | White-Rodgers | Honeywell Home | Honeywell | Supco

Pilot and Ignition Components

Items are LP/NG except where noted.

No. 5AU59 is ¼"-dia. aluminum tubing; includes compression nut, ball sleeves, and breakaway ferrule.

No. 12Z418 includes PG9 pilot adapter.

No. 2E446 has 36" armored cable leads with split-spade terminals. Includes mounting nut, spring clips, and PG9 adapter sleeve.

Nos. 2EWF9 and 2EWF8 have low-mass, quick-dropout thermocouples.

Description	Tip Style	Brand	Mfr. Model	Item No.
Pilot Assembly				
Aerated	—	Robertshaw	1810-100	**12Z431**
	90° Left	Robertshaw	1820-039	**12Z433**
	90° Right	Robertshaw	1820-029	**12Z432**
Aerated, 2"L	25° Left	Robertshaw	1830-501	**6KXD7**
Electronic Pilot Burner with Safety Switch, 30VAC	—	Robertshaw	1830-620	**499N04**
Intermittent Pilot Burner/Ignitor-Sensor	Adjustable	Honeywell	Q3451U1000	**278Z99**
	Adjustable	Honeywell Home	Q345U1005	**36Z439**
	Batwing	Honeywell	Q348U1009	**279A01**
Intermittent Pilot Burner/ Ignitor-Sensor, 24"L	Flame Pattern 90° Left	Robertshaw	1830-716	**2EWF7**
	Flame Pattern Standard	Robertshaw	1830-705	**2EWF6**
Thermopile, 750 mV, 32"L	90° Left	Robertshaw	1820-019	**2EWG2**
	90° Right	Robertshaw	1820-009	**2EWG1**
	Channel Type	White-Rodgers	PG9A38JTL24	**1RC59**
Universal, 750 and 18 to 30 mV, T-Pile 24, T-Couple 18, Electrode 18"L	—	Robertshaw	1819-001	**2EWF8**
Universal Ignitor/Sensor Assembly, 24V, 2¼"L	Round	Robertshaw	1751-729	**6KXG6**
	Round	Robertshaw	1751-749	**6KXG7**
Universal Standing Pilot Burner	Adjustable	Honeywell Home	Q314U1001	**36Z438**

L (in.)	Brand	Mfr. Model	Item No.
Hot Surface Ignitor, 120V, Silicon Carbide**			
3⅛	Robertshaw	41-406	**6KXC5**
3¼	Robertshaw	41-803	**6EPY5** †
3¼	Robertshaw	41-410	**6KXD1**
3¼	Supco	IG402K	**4LWU9**
3¼	Supco	IG403K	**4LWX1**
3⅝	Supco	IG4000	**4LWX2**
4½	Robertshaw	41-411	**5JA30**
4½	Robertshaw	41-409	**1TGF4**
4½	Robertshaw	41-408	**1TGF3**
4½	Robertshaw	41-404	**5JA29**
4½	Robertshaw	41-401	**5JA28**
5	Honeywell Home	Q4100C9046	**48KT52**
5¼	Honeywell Home	Q4100C9054	**48KT53**
5¼	Honeywell Home	Q4100C9056	**48KT54**
5¼	Robertshaw	41-414	**5JA31**
5¼	Robertshaw	41-412	**1TGF5**
5¼	Robertshaw	41-405	**35U238**
5¼	White-Rodgers	767A-373	**16X602**
5¼	White-Rodgers	767A-372	**16X601**
5¼	White-Rodgers	767A-370	**16X599**
5¼	White-Rodgers	767A-361	**5E811**
5¼	White-Rodgers	767A-357	**5E810**
5⅓	White-Rodgers	767A-366	**5E813**
5½	Robertshaw	41-403	**1TGF6**
5⅔	White-Rodgers	767A-365	**5E812**
6	White-Rodgers	767A-356	**5E809**
19⅛	White-Rodgers	767A-371	**16X598**
Hot Surface Ignitor, 120V, Silicon Nitride**			
1¾	Supco	SSN24	**4LWU6** **
2⅛	Supco	SSN4000	**4LWU8** †
2⅜	Honeywell	Q3200U1004	**278Z98** *
2½	Robertshaw	41-411N	**6EPY1**
2⅝	Robertshaw	41-802N	**6EPY4** †
2⅝	Supco	SSN3000	**4LWU7** †
3¼	Supco	SSN2000	**1DKR2** †
15½	White-Rodgers	21D64-5PK	**30PL31** †#
15½	White-Rodgers	21D64-2	**16X597**
Ignitor/Flame Rod Assembly, 24V			
30	Honeywell Home	Q3400A1024	**3UC35** *

** NG only. ** No. 4LWU6 is 24V, and has flame rod assembly. † Universal. # Pkg. of 5.*

Description	Voltage	L (in.)	Brand	Mfr. Model	Item No.
Pilot Tubing					
Cut to Length	—	60	Robertshaw	11-293	**5AU59**
Thermopile					
Pilot Generator	250mv to 750mv	36	Robertshaw	1950-001	**12Z418**
		36	Robertshaw	1951-536	**12Z419**
	750 mV	36	White-Rodgers	G01A-332	**2E446**
Quick Connect		35	Honeywell Home	Q313A1170	**36WH82**
Replacement Thermocouple					
Snap-Fit	18 to 30 mV	18	Robertshaw	1980-018	**12Z425**
		24	Robertshaw	1980-024	**12Z426**
		30	Robertshaw	1980-030	**12Z427**
		36	Robertshaw	1980-036	**12Z428**
		48	Robertshaw	1980-048	**12Z429**
Standard Coaxial		18	White-Rodgers	H06E-018	**2E166**
		18	Honeywell Home	Q340A1066	**2E720**
		24	White-Rodgers	H06E-024	**2E140**
		24	Honeywell Home	Q340A1074	**2E524**
		30	White-Rodgers	H06E-030	**2E141**
		30	Honeywell Home	Q340A1082	**2E721**
		36	White-Rodgers	H06E-036	**2E142**
		36	Honeywell Home	Q340A1090	**2E525**
		48	White-Rodgers	H06E-048	**2E337**
		48	Honeywell Home	Q340A1108	**36WH80**
Threaded	20 to 30 mV	18	Robertshaw	1970-018	**12Z420**
		24	Robertshaw	1970-024	**12Z421**
		30	Robertshaw	1970-030	**12Z422**
		36	Robertshaw	1970-036	**12Z423**
		48	Robertshaw	1970-048	**12Z424**
Universal Coaxial ODS	18 to 30 mV	27	Robertshaw	1960-027	**2EWF9**

Description	Brand	Mfr. Model	Item No.
Flame Sensors			
Single Rod, 30", ¼" Female Spade	White-Rodgers	760-401	**4E957**
Mercury, 48", Plug-In, No. 19 Bulb	White-Rodgers	3098-134	**1N180**
Mercury, 48", Plug-In, No. 20 Bulb	White-Rodgers	3098-156	**1N181**
Plug-In, Sleeve Covered, 125V	White-Rodgers	30A46-105	**48FX08**
Plug-In, Stud Mount, 125V	White-Rodgers	30A46-5	**48FX07**
Hot Surface Ignition, For Mfr. No. 0130F00010	Supco	FLS010	**48XL37**
Hot Surface Ignition, For Mfr. No. LH33WZ514	Supco	FLS013	**48XL38**
Hot Surface Ignition, For Mfr. No. LH33ZS004	Supco	FLS014	**48XL39**
Hot Surface Ignition, For Heating Equipment	Supco	FLS201	**48XL40**
Hot Surface Ignition, For Mfr. No. 62-25343-01	Supco	FLS301	**48XL41**
Hot Surface Ignition, For Mfr. No. 760-401,PFS401	Supco	FLS401	**48XL42**
Hot Surface Ignition, For Mfr. No. 025-27773-700	Supco	FLS700	**48XL43**

GA GRAINGER APPROVED

Snap-Disc Controls and Electric Sequencers



No. 6UDY4

- Quick-connect terminals

Provide fast or time-delayed control of startup and shutdown sequences. UL and C-UL Recognized.

Snap-Disc Controls
- Mounting: multipositional

Electric Sequencers
- 24V input control
- Pilot duty: 125VA at 120/480V

Switch Closes @ (°F)	Switch Opens @ (°F)	Voltage Range	Item No.
Snap Disc Controls			
Adjustable Limit, Automatic Reset			
115 to 155	135 to 175	120 to 240	**6UDY4**
135 to 175	175 to 215	120 to 240	**6UDY5**
170 to 210	210 to 250	120 to 240	**6UDY6**
210 to 250	250 to 290	120 to 240	**6UDY7**
Limit, Automatic Reset			
100	140	120 to 240	**6UDY8**
110	120	120 to 240	**6UDY9**
115	125	120 to 240	**6UDZ0**
115	130	120 to 240	**6UDZ1**
120	135	120 to 240	**6UDZ2**
120	140	120 to 240	**6UDZ3**
120	160	120 to 240	**6UDZ4**
120	160	120 to 240	**6UDZ5**
125	145	120 to 240	**6UDZ6**
130	150	120 to 240	**6UDZ7**
135	155	120 to 240	**6UDZ8**
140	180	120 to 277	**6UDZ9**
140	180	120 to 240	**6UEA0**
145	165	120 to 240	**6UEA1**
150	170	120 to 240	**6UEA2**
150	190	120 to 277	**6UEA3**
155	175	120 to 240	**6UEA4**
160	180	120 to 240	**6UEA5**
160	200	120 to 277	**6UEA6**
160	200	120 to 240	**6UEA7**
185	225	120 to 240	**6UEA8**
210	250	120 to 240	**6UEA9**
260	300	120 to 240	**6UEC0**

Switch Closes @ (°F)	Switch Opens @ (°F)	Voltage Range	Item No.
Limit, Rollout, Manual Reset			
—	135	120 to 240	**6UEC1**
—	160	120 to 277	**6UEC2**
—	180	120 to 277	**6UEC3**
—	200	120 to 277	**6UEC4**
—	220	120 to 240	**6UEC5**
—	240	120 to 240	**6UEC7**
—	250	120 to 240	**6UEC8**
—	260	120 to 240	**6UEC9**
—	300	120 to 240	**6UED0**
—	350	120 to 240	**6UED1**
Fan and Limit			
Fan 140, Limit 120	Fan 120, Limit 140	120 to 277	**6UED2**
Fan 190, Limit 170	Fan 170, Limit 190	120 to 277	**6UED3**
Fan			
90	80	120 to 240	**6UED4**
110	90	120 to 277	**6UED5**
120	110	120 to 240	**6UED6**
130	115	120 to 277	**6UED7**
140	120	120 to 277	**6UED8**
150	130	120 to 277	**6UED9**
160	140	120 to 277	**6UEE0**
Adjustable Fan			
90 to 130	70 to 110	120 to 240	**6UEE1**
140 to 180	120 to 160	120 to 240	**6UEE2**
Surface Mount			
Surface Mount Conversion Bracket			**6UEE3**

Off Time (sec.)	On Time (sec.)	No. of Switches	Main Switch On Time (sec.)	Main Switch Off Time (sec.)	No. of Timings	Aux. Switch Off Time (sec.)	Aux. Switch On Time (sec.)	Item No.
Electric Sequencers								
1 to 30	30 to 90	1	30 to 90	1 to 30	1	1 to 30	30 to 90	**6UEE5**
1 to 20	40 to 110	1	1 to 20	40 to 110	1	1 to 20	40 to 110	**6UEE6**
1 to 25	65 to 115	1	1 to 25	65 to 115	1	1 to 25	65 to 115	**6UEE4**
1 to 30	30 to 90	2	30 to 90	1 to 30	2	1 to 30	30 to 90	**6UEE7**
1 to 20	40 to 110	2	1 to 20	40 to 110	2	1 to 20	4 to 110	**6UEE8**
1 to 110	1 to 110	3	1 to 110	1 to 110	3	1 to 110	1 to 110	**6UEE9**
1 to 110	1 to 110	4	1 to 110	1 to 110	2	1 to 110	1 to 110	**6UEF0**

GA GRAINGER APPROVED Supco ICM CONTROLS

Potential Relays

Use to start 1-phase, capacitor-type motors in air conditioning and refrigeration applications.



No. 4MG77

Supco—Replaces most potential relays with 130 to 270V pickup. Contacts will open after 1 to 1.5 sec. if the motor does not start.

Coil Voltage @ 60 Hz Pick-Up	Drop-Out	Max. Hold	Brand	Mfr. Model	Item No.
139 to 153	55 to 20	168	GA	—	**5MLY8**
162 to 175	90 to 40	332	GA	—	**5MLZ7**
166 to 180	100 to 70	332	GA	—	**5MLY9**
185 to 200	105 to 40	375	GA	—	**5MLZ0**
189 to 205	130 to 60	450	GA	—	**5MLZ8**
212 to 235	121 to 60	420	GA	—	**5MLZ2**
260 to 275	100 to 50	332	GA	—	**5MLZ3**
260 to 275	135 to 60	500	GA	—	**5MLZ4**
295 to 315	135 to 60	500	GA	—	**5MLZ5**
332 to 356	135 to 60	500	GA	—	**5MLZ6**
Adjustable	Adjustable	Adjustable	Supco	APR-5	**4MG77**
Automatic	Automatic	502	ICM	ICMUMSR-50B	**1ECC9**

ICM—Differential voltage-sensing, universal motor-starting relay. Rated 50 amps @ 110 to 270V, 50/60 Hz. No user adjustments or sizing required.

White-Rodgers

GA GRAINGER APPROVED Dayton

Honeywell Honeywell Home

Magnetic and Transformer Combination Relays



No. 18F255

Snap-acting for remote control of air conditioning, heating, and ventilation systems, motors (up to 1½ HP), tools, and other electrical devices within ratings.

MAGNETIC

SureSwitch™ Relay—Microprocessor-controlled switching algorithms reduce arcing, virtually eliminating contact pitting and welding.

AC Switching—SPST models have combination screw/push-on terminals and permanent jumper to load (except where noted). DPST models have screw-type line and load terminals.

Enclosed Fan (Heavy Duty)—¼" spade terminals.

Conduit Connector—Wire leads.

TRANSFORMER COMBINATIONS

120V primary, except No. 2E346 is 240V and features conduit hub or screw mounting.

Switch Type	Coil Volts	Full Load Amps @ 120V	Full Load Amps @ 240V	Brand	Mfr. Model	Item No.
Magnetic						
SureSwitch™ Relay, Universal Compressor Contactor						
Electronic	24	—	40	White-Rodgers	49P11-843	**36L351**
AC Switching						
SPDT	24	40	—	GA	—	**5MLZ9**
SPDT	120	40	—	GA	—	**5MMA0**
SPDT	208/240	12	6	GA	—	**6ACH4**
SPDT	240	40	—	GA	—	**5MMA1**
DPST	24	—	30	GA	—	**5MMA5**
DPST	24	12	6	GA	—	**6ACH5**
DPST	120	—	30	GA	—	**5MMA6**
DPST	120	12	6	GA	—	**6ACH6**
DPST	208/240	12	6	GA	—	**6ACH7**
DPST	240	—	30	GA	—	**5MMA7**
DPDT	24	12	6	GA	—	**6AZT9**
DPDT	120	12	6	GA	—	**6AZU0**
DPDT	208/240	12	6	GA	—	**6AZU1**
DPST	24	30	—	Dayton	—	**18F255**
SPDT	24	12	6	Honeywell Home	R8222B1067	**2E681**
DPDT	24	12	6	Honeywell Home	R8222D1014	**2E682**
DPDT	24	12	6	White-Rodgers	90-340	**4E943**
DPDT	115/120	12	6	White-Rodgers	90-341	**4E944**
DPDT	208/240	12	6	White-Rodgers	90-342	**4E945**
Enclosed Fan (Heavy-Duty)						
SPDT	24	14	8	GA	—	**6AZU4**
SPDT	120	14	8	GA	—	**6AZU5**
SPDT	277	14	8	GA	—	**6ACJ1**
SPDT	208/240	14	8	GA	—	**6AZU6**
SPNO	24	14	8	GA	—	**6AZU2**
SPNO	120	14	8	GA	—	**6ACH8**
SPNO	208/240	14	8	GA	—	**6ACH9**
SPNO	277	14	8	GA	—	**6ACJ0**
SPNO/SPNC	24	14	8	GA	—	**6AZU3**
SPNO/SPNC	120	14	8	GA	—	**6ACJ2**
SPNO/SPNC	208/240	14	8	GA	—	**6ACJ3**
SPDT	24	8	8	White-Rodgers	90-293Q	**4E659**
SPDT	24	12	8	White-Rodgers	90-370	**1N184**
SPDT	115/120	8	8	White-Rodgers	90-294Q	**4E941**
SPNO	24	8	8	White-Rodgers	90-290Q	**4E658**
SPNO/SPNC	24	12	8	White-Rodgers	90-380	**1N185**
Conduit Connector Enclosed Switching						
SPDT	24	16	8	White-Rodgers	8A04-1	**2E461**
Transformer Combinations						
Conduit Box/Unit Mount						
SPST Normally Open (NO)	240	—	12	White-Rodgers	24A01G-3	**2E346**
Conduit/Unit Mount (Hydronic Application)						
SPST	24	10.2	5.1	Honeywell Home	RA89A1074	**2E866**
2 SPST plus 1 Powerpile SPST	24	7.4	—	Honeywell	R8845U1003	**278Y75**
1 SPDT plus 1 Powerpile SPST	24	8	—	Honeywell	RA889A1001	**278Y74**
4x4 Junction Box Mount						
SPNO/SPNC	24	12	6	GA	—	**6AZH4**
SPDT	24	12	6	GA	—	**6AZH5**
DPDT	24	12	6	GA	—	**6AZH6**
SPDT	24	12	6	Honeywell Home	R8285A1048	**4E393**

Time-Delay Relays

ICM CONTROLS

Feature control knob for adjustable time range. 0.25" quick-connect terminals; 1-hole mounting.

Nos. 4E233 and 4E234—Universal input voltage operation of 18 to 240VAC/VDC. 2-wire hookup. For compressor protection and staging.

No. 4E235—Prevents compressor startup due to low line voltage/power failure. Input voltage: 18 to 30VAC.

No. 4E890—Provides an Off delay to allow fan to continue running in forced air systems. 18 to 30VAC.



Type	Time Delay	Contact Rating (A)	Mfr. Model	Item No.
Delay on Make	Adj. 1.8 to 600 Sec.	1.5	ICM102	**4E233**
Delay on Break	Adj. 1.8 to 600 Sec.	1.5	ICM203	**4E234**
Delay on Break/Lockout	Adj. 180 to 600 Sec.	1.5	ICM206	**4E235**
Post-Purge	Adj. 12 to 390 Sec.	1.0	ICM253	**4E890**


No. 3AAD7


No. 23M557


No. 4NU99


No. 4NY12


No. 23M548


No. 23M547


No. 3AAE1

Description	Heater Voltage	Mounting Type	Safety Switch Timing	Brand	Mfr. Model	Item No.
Oil Primary Controls						
Interrupted or Intermittent Ignition	120VAC	Conduit Box	15 sec.	Beckett	7505B1500GU	**3AAD7**
Interrupted or Intermittent Ignition	120VAC	Junction Box	Settable 15, 30 or 45 sec.	Honeywell Home	R7284U1004	**6HMJ3**
Intermittent Ignition, High and Low Limit	120VAC	Horizontal Boiler Mount	45 sec.	Honeywell Home	R8182D1111	**2E865**
Gas Burner Ignition Transformers						
Industrial Burners	120VAC	Slotted Plate	—	Allanson	542-A	**25DU87**
Industrial Gas Burners	120VAC	Slotted Plate	—	Allanson	1092-F	**23M557**
Gordon Piatt Gas Burners	120VAC	Slotted Plate	—	Allanson	1092-S	**23M558**
Power Flame Burners	120VAC	¼-20 x 1" mounting studs, one ground	—	Allanson	542-PF-G	**25DU88**
Power Flame Gas Burners	120VAC	¼-20 x 1" Mounting Studs	—	Allanson	1092-PF	**23M559**
Cleaver-Brooks Gas Burner & Industrial Combustions	120VAC	4 Holes	—	Allanson	1092-H	**23M561**
Oil Burner Ignition Transformers						
Beckett A, AF, AFG Oil Burners	120VAC	End Hinge	—	Allanson	2721-628G	**23M552**
Wayne HI Speed M/MH Oil Burners	120VAC	End Hinge	—	Allanson	2721-619	**23M553**
Carlin 99, 100/1, CRD Oil Burners	120VAC	End Hinge	—	Allanson	2721-630	**23M554**
Wayne E Oil Burners	120VAC	Side Hinge	—	Allanson	2721-620	**23M555**
Universal Ignition Transformer	120VAC	—	—	Allanson	421-BT636	**23M556**
Wayne M Oil Burners	120VAC	Hinge Replacement	—	Beckett	51825GU	**4NU99**
Wayne E Oil Burners	120VAC	Hinge Replacement	—	Beckett	51827GU	**4NY10**
Beckett A Oil Burners	120VAC	Hinge Replacement	—	Beckett	51771GU	**4NY11**
Oil Burners	120VAC	—	—	Beckett	51838GU	**4NY12**
Oil Burners	120VAC	Bracket	15 sec.	ICM	ICM1501	**53YK27**
Beckett S Oil Burners	120VAC	End Hinge	—	Allanson	2721-605	**25DU82**
Wayne Blue Angel Eagle One	120VAC	8-32 x ⅜" Mounting Studs	—	Allanson	2721-647	**25DU83**
Wayne Oil Burners	120VAC	4 Mounting Holes in Plate	—	Allanson	2721-668	**25DU84**
Beckett A, AF, AFG Oil Burners	240VAC	End Hinge	—	Allanson	2744-628G	**25DU85**
Wayne Oil Burners	240VAC	4 Mounting Holes in Plate	—	Allanson	2744-668	**25DU86**
Gas Burner Ignitors						
Gas Burners	—	—	—	Allanson	2260-TP	**25DU89**
Gas Burners	—	—	—	Allanson	2265-TP	**25DU90**
Oil Burner Ignitors						
Beckett A, AF, AFG Oil Burners	120VAC	End Hinge	—	Allanson	2275-628G	**23M548**
Wayne HI Speed M/MH Oil Burners	120VAC	End Hinge	—	Allanson	2275-619	**23M549**
Carlin 99, 100/1, CRD Oil Burners	120VAC	End Hinge	—	Allanson	2275-630	**23M550**
Wayne E Oil Burners	120VAC	Side Hinge	—	Allanson	2275-620	**23M551**
Universal Replacement Oil Burner Ignitor	120VAC	Existing Mounting Plate	—	Allanson	2275U	**23M547**

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
GeniSys(TM) Lockout Alarm	Mfr. No. 7505B1500GU	Beckett	52040GU	**3AAD9**
A/C Ready Kit	Adding A/C Capability to Existing Furnace or Boiler with any Honeywell R7184 or R8184G Oil Primary Control. Replaces Honeywell Mfr. No. R8184M when used with Beckett 7505	Beckett	51950GU	**3AAE1**
Flame Sensor, Cadmium Sulfide	Oil Fired Furnace Control Systems	Honeywell Home	C554A1463	**1D294**
Replacement Plug Flame Sensor	Mfr. No. R8184G4025, R8182D1111, R7184U1020, R8184G4009	Honeywell Home	130367	**2E523**
Transformer/Ignitor Tester	(2) Pole Electronic Ignitors and Iron Core Transformers	Allanson	SC-2100	**23M560**

Beckett Honeywell Home Allanson ICM Controls

Oil Primary Controls, Ignition Transformers, and Electronic Ignitors

OIL PRIMARY CONTROLS

- 120VAC, 60 Hz
- Order flame sensor/detector separately

Controls shut down burner on loss of flame or system malfunction.

No. 3AAD7—Features limited recycle and reset, valve-on delay, welded relay protection, 3 status lights, and 24VAC terminals. Use with GeniSys™ Display No. 3AAD8 as a universal programming/diagnostic controller.

No. 6HMJ3—Universally compatible controller has field-adjustable valve-on delay and 2-line diagnostic LCD. EnviraCom™ communication-ready. UL and C-UL Recognized Component.

No. 2E865—Combination primary and hydronic control with solid state control circuit and external low-voltage terminals. It has circulator control and includes well adapter and heat-conductive compound. UL Recognized, CSA Certified.

IGNITION TRANSFORMERS

- Gas units are 120VAC, 6kV secondary, 50/60 Hz, 20/25mA, 1 end grounded
- Oil units are 120V primary, 10kV secondary, 60Hz, 23mA, MPG

UL Listed.

Beckett—Feature peak voltage up to twice that of larger, heavier iron-core transformers. UL and C-UL Recognized.

- 120V primary, 20kV peak secondary, 15 to 30 kHz

OIL BURNER IGNITORS

Allanson—UL Recognized. No. 23M547 universal replacement ignitor mounts onto any previously installed ignitor mounting plates; eliminates the need for extra mounting plates.

- 120V primary, 17.5kV peak secondary, 50/60Hz, 45mA


No. 4NU97


No. 3AAC2

Burner Type	GPH	Air Tube Length	Mfr. Model	Item No.
Complete Flame Retention	0.4 to 3.0 Determined by Nozzle Used	6⅝"	B2502	**4NU97**
Complete Flame Retention	0.4 to 3.0 Determined by Nozzle Used	9"	B2503	**4NU98**
Without Nozzle or Air Tube	0.4 to 3.0 Determined by Nozzle Used	—	B2007GU	**3AAC2**

High-Efficiency Oil Burners

Beckett

- 120V
- 15-sec. prepurge
- Use with No. 1 or No. 2 heating oil (ASTM D396) only
- Nozzles not included

Feature 1/7-HP PSC motor with automatic reset overload protection, 3450 rpm, and adjustable mounting flange. Each includes low-fire baffle, assorted heads, static plates, integrated solenoid valve, electronic oil ignitor, and single-stage pump. For air tube combinations, nozzles, and accessories, go to Grainger.com® and search for Beckett. UL and C-UL Listed.


No. 4NY13

Oil Burner Pumps

SUNTEC industries incorporated Beckett

- 120V
- 1- or 2-pipe systems

Nos. 4NY15 and 4NY13—Can lift oil up to 8 ft. in 1-pipe system, up to 14 ft. in 2-pipe system.

No. 4NY16—Includes integrated solenoid valve.

No. 6TFC9—Can lift oil up to 18 ft. in 2-pipe system.

Description	GPH	Adjustable PSI Range	RPM	Brand	Mfr. Model	Item No.
1-Stage A1VA7112	3	100 to 150	1725	Suntec	PF105N2GU	**4NY15**
1-Stage A2VA7116	3	100 to 150	3450	Suntec	PF103N2GU	**4NY13**
1-Stage A2EA6527	4	100 to 200	3450	Beckett	PF10322GU	**4NY16**
2-Stage B2YA8916	7	100 to 200	3450	Suntec	PF107N2GU	**6TFC9**

Motorized 24V Hydronic Zone Valves

Honeywell
Honeywell Home
White-Rodgers

- Max. water temp.: 200°F (except where noted)

Manual lever provides valve operation during power failure. Use with 2-wire controls, except 3-wire for Nos. 2E163 and 2E164.



No. 279A73

Connec. Type/Size (in.)	Type	Coefficient of Volume	Electrical Connec.	Brand	Mfr. Model	Item No.	
Valves							
Flare ½	NC	3.5	18 in Leads	Honeywell	V8043A1003	**279C01**	
NPT ½	NC	3.5	18 in Leads	Honeywell	V8043A1227	**279A79**	
NPT ¾	NC	3.5	18 in Leads	Honeywell	V8043E1145	**279A78**	
	NO	3.5	18 in Leads	Honeywell	V8043B1076	**279C12**	
NPT 1	NC	10	18 in Leads	Honeywell	V8043E1137	**279C07**	
Sweat ½	NC	3.5	18 in Leads	Honeywell	V8043E5004	**279C13**	
	NC	3.5	18 in Leads	Honeywell	V8043A1011	**279A80**	
	NC	3.5	18 in Leads	Honeywell	V8043E1004	**279A90**	
	NO	3.5	18 in Leads	Honeywell	V8043B1019	**279A82**	
Sweat ¾	NC	3.5	18 in Leads	Honeywell Home	V8043A1029	**2KKN7**	
	NC	3.5	18 in Leads	Honeywell Home	V8043E1012	**2E787**	*
	NC	3.5	18 in Leads	Honeywell	V8043E5012	**279C04**	
	NC	3.5	18 in Leads	Honeywell	V8043A5029	**279C08**	
	NC	8	18 in Leads	Honeywell Home	V8043E5061	**2KKR6**	*
	NC	8	18 in Leads	Honeywell	V8043E1061	**279A77**	
	NO	3.5	18 in Leads	Honeywell	V8043B1027	**279A84**	
	NC	23.5	Terminal Board	White-Rodgers	1311-102	**2E163**	‡
	NC	23.5	Terminal Board	White-Rodgers	1361-102	**44R201**	‡
	NC	3.5	Terminal Board	Honeywell	V8043F1036	**279A73**	
	NC	8	Terminal Board	Honeywell	V8043F1093	**279C03**	
Sweat 1	NC	3.5	18 in Leads	Honeywell	V8043E5020	**279C11**	
	NC	3.5	18 in Leads	Honeywell	V8043E1020	**279A94**	
	NC	8	18 in Leads	Honeywell	V8043E1079	**279A98**	
	NC	37.0	Terminal Board	White-Rodgers	1311-103	**2E164**	‡
	NC	3.5	Terminal Board	Honeywell	V8043F1051	**279A91**	
	NC	8	Terminal Board	Honeywell	V8043F1101	**279C17**	

** Integral end switch for sequencing auxiliary equipment. ‡ 240°F.*

Description	Brand	Mfr. Model	Item No.
Replacement Parts			
Motor, For use w/ V8043A Zone Valves	Honeywell Home	802360JA	**2KKN3**
Motor, For use w/ V8043A Zone Valves	Honeywell	802360UA	**279A69**
Head, 24V, For use w/ V8043F Zone Valves	Honeywell	40003916-048	**279A68**
Head, 24V, For use w/ V8043E Zone Valves	Honeywell	40003916-026	**279A67**

Motorized 24V Hydronic Zone Valves

Taco Comfort Solutions®

- Max. water temp.: 220°F
- Snap-in connectors on power and end switch



No. 12M799

These Taco® Zone Sentry valves can be used in applications including 15 psi geothermal steam, heating systems, or in chilled water where condensation is present. The actuator can be replaced in seconds. Ball valve design installs in any orientation. Valves feature quick-connect wiring, multi-function LED, manual override, and end switch.

Connec. Type/Size (in.)	Type	Coefficient of Volume	Mfr. Model	Item No.
Valves				
NPT ½	2-Way, NC, Closed System	4.9	Z050T2-3	**12M803**
	2-Way, NO, Closed System	4.9	V050T2A2ZB024Q4A2	**12M809**
	3-Way, Closed System	1.5	Z050T3-2	**12M834**
NPT ¾	2-Way, NC, Closed System	10.3	Z075T2-3	**12M804**
	2-Way, NC, Geothermal System	10.3	V075T2G2ZA024Q4A2	**12M816**
	2-Way, NO, Closed System	10.3	V075T2A2ZB024Q4A2	**12M810**
	2-Way, NO, Geothermal System	10.3	V075T2G2ZB024Q4A2	**12M822**
	3-Way, Closed System	4.5	Z075T3-2	**12M835**
	3-Way, Geothermal Systems	4.5	V075T3G1ZA024Q4A2	**12M828**
NPT 1	2-Way, NC, Closed System	8.9	Z100T2-3	**12M805**
	2-Way, NC, Geothermal Systems	8.9	V100T2G2ZA024Q4A2	**12M817**
	2-Way, NO, Closed System	8.9	V100T2A2ZB024Q4A2	**12M811**
	2-Way, NO, Geothermal System	8.9	V100T2A2ZB024Q4A2	**12M823**
	3-Way, Closed System	4.5	Z100T3-2	**12M836**
Sweat ½	2-Way, NC, Closed System	4.9	Z050C2-2	**12M799**
	2-Way, NC, Geothermal System	4.9	V050C2A2ZB024Q4A2	**12M806**
	2-Way, NO, Geothermal System	4.9	V050C2G2ZB024Q4A2	**12M818**
	3-Way, Closed System	1.5	Z050C3-2	**12M831**
	3-Way, Geothermal System	1.5	V050C3G1ZA024Q4A2	**12M824**
Sweat ¾	2-Way, NC, Closed System	10.3	Z075C2-2	**12M801**
	2-Way, NC, Geothermal System	10.3	V075C2G2ZA024Q4A2	**12M813**
	2-Way, NO, Closed System	10.3	V075C2A2ZB024Q4A2	**12M807**
	3-Way, Closed System	4.5	Z075C3-2	**12M832**
Sweat 1	2-Way, NC, Closed System	8.9	Z100C2-2	**12M802**
	2-Way, NC, Geothermal System	8.9	V100C2G2ZA024Q4A2	**12M814**
	2-Way, NO, Closed System	8.9	V100C2A2ZB024Q4A2	**12M808**
	2-Way, NO, Geothermal System	8.9	V100C2G2ZB024Q4A2	**12M820**
	3-Way, Closed System	4.5	Z100C3-2	**12M833**
	3-Way, Geothermal System	4.5	V100C3G1ZA024Q4A2	**12M826**

Description	Mfr. Model	Item No.
Actuator Heads		
NO, 24V	ZB024Q4A2	**12M830**
NC, 24V	ZA024Q4A2	**12M798**

Water and Steam System Air Vents

Honeywell Home
Bell & Gossett a xylem brand
Taco Comfort Solutions®

- Max. temp.: 240°F (except where noted)

Honeywell Home—PV Series feature no-clog vent top; eliminates leaking. 360° adjustable collar ring. Thermoplastic float with debris baffle.

EA Series have vent cap with leakage guard. Float/valve assembly is removable for servicing. Built-in vacuum breaker and shut-off valve.

Bell & Gossett—Nonadjustable, except No. 4NU93 has 6 port settings. Nos. 4NU93 and 4NU94 have horizontal pipe fittings; Nos. 4NU95 and 4NU96 have vertical pipe fittings.

Taco—Remove unwanted air from closed loop heating and cooling systems.



Hydronic

Type	Connection	Max. Pressure (psi)	Material	Brand	Mfr. Model	Item No.	
Hydronic Air Vent							
Automatic	⅛" (M)NPT	90	Thermoplastic	Honeywell Home	EA122A1002	**3TZ95**	*
	¾" Sweat	125	Bronze	Honeywell Home	PV075S/U	**2RB54**	
	¾" (M)NPT	150	Brass Shell	Honeywell Home	EA79A1004	**3TZ96**	‡
	1½" (F)NPT	125	Bronze	Honeywell Home	PV150/U	**2RB57**	
Automatic Float	¾" (M)NPT	150	Brass and SS	Bell & Gossett	78	**2CMH7**	‡
	¾" (M)NPT or ½" (F)NPT	75	Brass and SS	Bell & Gossett	79	**2CMH8**	‡
High Pressure Automatic Float	Inlet Bottom ¾" (F) NPT, Side ½" (F)NPT, Outlet ½" (F)NPT	250	Cast Iron	Bell & Gossett	792	**4NU83**	#

** 230°F. ‡ 250°F. # 300°F.*

Type	Connection	Max. Pressure (psi)	Material	Brand	Mfr. Model	Item No.
Steam Air Vent						
Automatic	⅛" (M)NPT Angled	10	Plated Brass	Bell & Gossett	1A	**4NU93**
	⅛" (M)NPT Angled	6 psig (Drop Away Pressure)	Plated Brass	Bell & Gossett	40	**4NU94**
	⅛" (M)NPT Straight	10	Plated Brass	Bell & Gossett	41	**4NU95**
	¼" (M)NPT Straight	10	Plated Brass	Bell & Gossett	43	**4NU96**
Hydronic Air Eliminators						
Automatic	¾" (F)NPT	150	Brass	Taco	49-075T-2	**2DHJ63**
	¾" (F) Sweat	150	Brass	Taco	49-075C-2	**2DHJ68**
	1" Sweat	150	Brass	Taco	49-100C-2	**2DHJ69**
	1" (F) NPT	150	Brass	Taco	49-100T-2	**2DHJ64**
	1¼" Sweat	150	Brass	Taco	49-125C-2	**2DHJ70**
	1¼" (F) NPT	150	Brass	Taco	49-125T-2	**2DHJ65**
	1½" Sweat	150	Brass	Taco	49-150C-1	**2DHJ71**
	1½" (F) NPT	150	Brass	Taco	49-150T-1	**2DHJ66**
	2" (F) NPT	150	Brass	Taco	49-200T-2	**2DHJ67**

High-Capacity Thermostatic Radiator Actuators and Valves

GA GRAINGER APPROVED

Honeywell Home
Honeywell

Provide precise, automatic control of room temperature in 2-pipe systems.

Actuators—Continually monitor and adjust room temperature.

Valves—Threaded tailpiece. Parts are replaceable on in-service, in-line valves under pressure.

Programmable Radiator Controller—Energy-saving unit fits most standard radiator valves.

Description	Capillary Length	HONEYWELL HOME Temp. Range	HONEYWELL HOME Mfr. Model	HONEYWELL HOME Item No.	GA Temp. Range	GA Item No.
Actuators						
Integral Sensor & Setpoint	—	43 to 79°F	T104A1040	**3UC67**	—	—
Remote Sensor & Setpoint	80 in	43 to 79°F	T104B1038	**3UC68**	48 to 79°F	**10L943**
Remote Sensor, Integral Setpoint	80 in	43 to 79°F	T104F1512	**3UC69**	48 to 79°F	**10L944**

Body Style	Max. Pressure Water/Steam	Pipe Connec.	Brand	Mfr. Model	Item No.
Valves					
Angle	142 psi/12 psi	½ in FPT	GA	—	**10L948**
Angle	142 psi/12 psi	¾ in FPT	GA	—	**10L949**
Angle	150 psi/15 psi	½ in FPT	Honeywell Home	V110E1004	**3UD05**
Angle	150 psi/15 psi	¾ in FPT	Honeywell Home	V110E1012	**3UD06**
Angle	150 psi/15 psi	1 in FPT	Honeywell	V110E1020	**279A31**
Horizontal Angle	142 psi/12 psi	½ in FPT	GA	—	**10L951**
Horizontal Angle	150 psi/15 psi	½ in FPT	Honeywell	V110F1002	**279A30**
Horizontal Angle	150 psi/15 psi	¾ in FPT	Honeywell	V110F1010	**279A29**
Straight	150 psi/15 psi	½ in FPT	Honeywell Home	V110D1000	**3UD02**
Straight	150 psi/15 psi	¾ in FPT	Honeywell Home	V110D1008	**3UD03**
Straight	150 psi/15 psi	1 in FPT	Honeywell	V110D1016	**279A32**



No. 3UC67

Temp. Range	Brand	Mfr. Model	Item No.
Programmable Radiator Controller, Threaded			
32°F to 122°F	Honeywell Home	HR90	**48KT45**


No. 2CMD7


No. 4NU59


No. 2CMG2


No. 4DXN4


No. 4NU76

Bell & Gossett a xylem brand

Nicholson A CIRCOR Energy Brand

MEPCO

SPENCE

Steam Traps

Control steam and condensate movement to maximize removal of latent heat from steam for efficient system operation. Stainless steel internal components.

Float and Thermostatic—Traps meet Mil. Spec. WW-T-696-E Type VI, Class 1-5, except No. 402W71.

Inverted Bucket—Inlet and outlet pipe connections are on the same level. Removable covers have valve linkage and seat attached. Meet Mil. Spec. WW-T-696-E Type I, Style B, Class 1-7, except items with Mfr. Model number having a B0 prefix and No. 402W85.

Thermodynamic—Compact traps handle water hammer and superheat; install easily in any position. Audible discharge makes checking operation simple. For use in kettles, steam main drips, and steam tracing.

Thermostatic—Balanced-pressure stainless steel thermostatic element automatically adjusts to varying pressures. Meet Mil. Spec. A-A-60001 Type V, Style A, Class 1 and 2, except No. 402W98.

Max. Operating (psi)	(F)NPT Connections	Brand	Mfr. Model	Item No.
Float and Thermostatic (Cast Iron), (2) Pipe, (1) Inlet and (1) Outlet				
15 psi	1½"	Bell & Gossett	FT015C-6	**2CMD2**
	1½"	Mepco/Dunham Bush	46-715G	**402W71**
	2"	Bell & Gossett	FT015C-8	**2CMD5**
	2"	Bell & Gossett	FT015X-8	**2CMD7**
	2½"	Bell & Gossett	FT015C-10	**2CMD6**
30 psi	1½"	Bell & Gossett	FT030C-6	**2CMD3**
75 psi	1¼"	Bell & Gossett	FT075C-5	**2CMC9**
	1½"	Bell & Gossett	FT075C-6	**2CMD4**
125 psi	1¼"	Bell & Gossett	FT125C-5	**2CMD1**
Float and Thermostatic (Cast Iron), (4) Pipe, (2) Inlet and (2) Outlet				
15 psi	¾"	Bell & Gossett	FT015H-3	**4NU59**
	1"	Bell & Gossett	FT015H-4	**4NU60**
	1¼"	Bell & Gossett	FT015H-5	**4NU64**
	1½"	Bell & Gossett	FT015H-6	**4NU69**
	2"	Bell & Gossett	FT015H-8	**4NU70**
30 psi	¾"	Bell & Gossett	FT030H-3	**4NU61**
	1"	Bell & Gossett	FT030H-4	**2CMC5**
	1¼"	Bell & Gossett	FT030H-5	**2CMC8**
75 psi	¾"	Bell & Gossett	FT075H-3	**4NU62**
	1"	Bell & Gossett	FT075H-4	**2CMC6**
125 psi	¾"	Bell & Gossett	FT0125H-3	**4NU63**
	1"	Bell & Gossett	FT125H-4	**2CMC7**
Inverted Bucket (Cast Iron)				
125 psi	½"	Bell & Gossett	B1125S-2	**4NU78**
	¾"	Bell & Gossett	B1125S-3	**4NU71**
Inverted Bucket (Cast Iron), In Body, In Line				
30 psi	¾"	Bell & Gossett	B1030S-3	**2CMG5**
75 psi	½"	Bell & Gossett	B1075S-2	**2CMG4**
	¾"	Bell & Gossett	B1075S-3	**2CMG6**
80 psi	½"	Bell & Gossett	B0080A-2	**2CMD8**
	½"	Bell & Gossett	B0080S-2	**2CME5**
	¾"	Bell & Gossett	B0080A-3	**2CME2**
	¾"	Bell & Gossett	B0080S-3	**2CME8**
125 psi	½"	Bell & Gossett	B0125A-2	**2CMD9**
	½"	Bell & Gossett	B0125S-2	**2CME6**
	¾"	Bell & Gossett	B0125A-3	**2CME3**
	¾"	Bell & Gossett	B0125S-3	**2CME9**
150 psi	½"	Bell & Gossett	B0150A-2	**2CME1**
	½"	Bell & Gossett	B0150S-2	**2CME7**
	¾"	Bell & Gossett	B0150A-3	**2CME4**
	¾"	Bell & Gossett	B0150S-3	**2CMG1**
180 psi	¾"	Bell & Gossett	B1180S-3	**2CMG7**
250 psi	½"	Bell & Gossett	B1030S-2	**2CMG2**
Inverted Bucket (Cast Iron), Straight				
200 psi	¾"	Mepco/Dunham Bush	IB12-3-30G	**402W85**
Thermodynamic (Stainless Steel), Straight				
600 psi	⅜"	Nicholson	NTD600-N1B9A	**4DXL7**
	½"	Nicholson	NTD600-N1C9A	**4DXL8**
	¾"	Nicholson	NTD600-N1D9A	**4DXL9**
	1"	Nicholson	NTD600-N1E9A	**4DXN1**
Thermodynamic (Stainless Steel), Straight, with Strainer				
600 psi	⅜"	Nicholson	NTD600-N1B9S	**4DXN2**
	½"	Nicholson	NTD600-N1C9S	**4DXN3**
	¾"	Nicholson	NTD600-N1D9S	**4DXN4**
	1"	Nicholson	NTD600-N1E9S	**4DXN5**
Thermostatic (Brass), Angle				
25 psi	½"	Bell & Gossett	17-C-A-2-25	**4NU75**
	½"	Mepco/Dunham Bush	1E-APG	**402W98**
	¾"	Bell & Gossett	17C-A-3-25	**2CMG8**
	1"	Bell & Gossett	17C-A-4-25	**2CMG9**
125 psi	½"	Bell & Gossett	8C-A-2-125	**4NU72**
	¾"	Bell & Gossett	8C-A-3-125	**4NU73**
	1"	Bell & Gossett	9C-A-4-125	**2CMH2**
Thermostatic (Brass), Straightaway				
25 psi	¾"	Bell & Gossett	17C-S-3-25	**2CMH1**
125 psi	¾"	Bell & Gossett	8C-S-3-125	**4NU74**
Thermostatic (Brass), Straightaway Swivel				
25 psi	½"	Bell & Gossett	17C-S-2-25	**4NU76**
Thermostatic (Brass), Vertical				
25 psi	½"	Bell & Gossett	17C-V-2-25	**4NU77**

For Use With	Includes	Brand	Mfr. Model	Item No.
Replacement Parts				
Modules				
Hoffman 17C	—	Bell & Gossett	600084	**13E339**
Barnes And Jones 122		Bell & Gossett	600053	**13E341**
D-B And Mepco 1C/1E		Bell & Gossett	600052	**13E342**
TB-25/TH-25/TS-25,Illinois 1G		Bell & Gossett	600056	**13E340**
Warren Webster 02H/502		Bell & Gossett	600250	**13E343**
Float and Thermostatic (Cast Iron)				
Mfr. No. FT015H-3, FT015H-4, FT015H-3, FT015H-4	Cover, Gasket, Float, Pin, & Element	Bell & Gossett	405594	**2CMH9**
FT015H-5, 4NU64		Bell & Gossett	405595	**2CMJ1**
FT015H-6, 4NU69		Bell & Gossett	405596	**2CMJ2**
FT015H-8, 4NU70		Bell & Gossett	405597	**2CMJ3**
FT030H-3, FT030H-4, 4NU61, 2CMC5		Bell & Gossett	405598	**2CMJ4**
Mfr. No. FTH-3,4,5 / B1, FT030H-5, FT030H-4, FT030H-3, B1030S-3, B1030S-2	Cover Gasket	Bell & Gossett	405601	**2CMJ7**
FTH-6, 4NU69		Bell & Gossett	405602	**2CMJ8**
FTH-8, 4NU70		Bell & Gossett	405603	**2CMJ9**
2CMD7, 4NU70, 4NU69, 4NU64, 4NU60, 4NU59, 2CMD5, 2CMD2, 2CMD6	Thermostatic Element	Bell & Gossett	405604	**2CMK1**
FT030H-5, 2CMC8	Cover Gasket, Float, Pin, & Element	Bell & Gossett	405606	**2CMK3**
FT015C-6, 2CMD2		Bell & Gossett	405608	**2CMK4**
FT075C-6, 2CMD4		Bell & Gossett	405610	**2CMK5**
FTC-6, 2CMD1, 2CMD2, 2CMD3, 2CMD4, 2CMD9	Cover Gasket	Bell & Gossett	405634	**2CML5**
FTC-8, 2CMD5		Bell & Gossett	405635	**2CML6**
FTC10, 2CMD6		Bell & Gossett	405636	**2CML7**
FTX-8, 2CMD7		Bell & Gossett	405637	**2CML8**
FT075H-3, FT075H-4, 4NU62	—	Bell & Gossett	405599	**2CMJ5**
Mfr. No. FT125H-3, FT125H-4, FT0125H-3		Bell & Gossett	405600	**2CMJ6**
Inverted Bucket (Cast Iron)				
B1030-2, B1030-3, 2CMG2, 2CMG5	Cover Gasket, Bucket, Pin, & Seat	Bell & Gossett	405619	**2CML9**
20 psi Inverted Bucket, B0020A, B0020S	—	Bell & Gossett	405614	**2CMP7**
B1125-2, B1125-3, 4NU71, 4NU78		Bell & Gossett	405613	**2CMK9**
B0		Bell & Gossett	405618	**2CML4**
B1075-2, B1075-3		Bell & Gossett	405620	**2CMN1**
Thermodisc (Stainless Steel)				
TD6523, 4NU65	5 Replacement Discs	Bell & Gossett	405622	**2CMN3**
Thermostatic (Brass)				
Mfr. No. 17-C-A-2-25, 17C-S-2-25, 17C-V-2-25, 17C-A-3-25, 17C-S-3-25, 17C-A-4-25	Thermostatic Element	Bell & Gossett	405628	**2CMN9**
Pilot Regulator				
SPS Spring Pilot, 4NU80, 4NU81, 4NU82	1 Diaphragm Screw, 1 Pusher Plate, 1 Valve Spring, 1 Seat Ring, 1 Gasket, 1 Pressure Plate, 3 Diaphragms (use only 2 pcs. on SPS-30 & SPS-60), 1 Stem, 1 Screen, 1 Disc, & 2 Stem Nuts	Spence	07-04164-00	**2CMP2**
Vacuum Breaker (Brass)				
62, 4NU79	One O-Ring	Bell & Gossett	405633	**2CMP5**



SPENCE

Pilot Regulators

Pressure pilot springs are interchangeable. Feature stainless steel components and a removable strainer. Max. operating pressure: 250 psi.

Pressure Adjustment Range	Pilot Valve Spring Color	Mfr. Model	Item No.
2 to 30 psi	Blue	SPS-30	**4NU80**
5 to 60 psi	Red	SPS-60	**4NU81**
20 to 175 psi	Gold	SPS-175	**4NU82**



"Y" Strainers

Bell & Gossett a xylem brand

Remove harmful pipeline debris to safeguard valves and pumps. Screen size: 20. Rated for 400 psi water. Steam pressure: cast iron 250 psi, cast brass 300 psi.

Connec. Type	Housing Material	Mfr. Model	Item No.
FNPT x FNPT	Cast Iron	415C - ½"	**4NU84**
		415C - ¾"	**4NU85**
		415C - 1"	**4NU86**
		415C - 1¼"	**4NU87**
		415C - 1½"	**4NU88**
		415C - 2"	**4NU89**
	Cast Brass	420C - ½"	**4NU90**
		420C - ¾"	**4NU91**
		420C - 1"	**4NU92**



Vacuum Breaker

Bell & Gossett a xylem brand

Improves condensate removal and prevents poor equipment performance. Adjustable from ¼" to 20" Hg vacuum. Rated for 150 psi. Max. temp.: 366°F.

Size	Connection Type	Material of Construction	Mfr. Model	Item No.
¾"	MNPT	Brass	62	**4NU79**

Universal Electronic Water Level Controllers

Waterline Controls®

Provide precise control that compensates for wave action and manages water levels to within ⅛" of operating range. Sensor rods will not plate foul or deteriorate, no matter the water quality. Digital circuitry easily integrates with existing building automation systems. Modular, quick-connect design. Control panel has water level and fault indicators and diagnostic self-test button. 15-yr. duty cycle. NEMA 4X enclosure. For cooling towers, water and stormwater holding and storage tanks, irrigation lakes, and sewage water systems. 8¾"H x 10½"W x 6"D. Each includes 20"L x 3" dia. PVC pipe containing ¼" stainless steel probes, 50-ft. sensor wire, mounting bracket, and U-bolts. ETL Listed.





No. 4GHK3

Sensors Incl.	Input Voltage 50/60 Hz	Operating Range	Switch Type	Mfr. Model	Item No.
Fill Height Only	110VAC	1½"	SPST	WLC3000-120VAC	4GHK3
Fill Height w/ High Level Alarm	110VAC	1½ and 3"	(2)SPST	WLC4000-120VAC	4GHK4
Fill Height w/ Low Level Alarm	110VAC	½ and 6"	(3)SPST	WLC4500-120VAC	4GHK5
Fill Height w/ High & Low Level Alarm	110VAC	1½, 3, and 6"	(3)SPST	WLC5000-120VAC	4GHK6
Fill Height w/ High & Low Level Alarm & Low Heat Cut Off	110VAC	1½, 3, 6, and 10"	(4)SPST	WLC6000-120VAC	4GHK7
Fill Height Only	220VAC	1½"	SPST	WLC3000-220VAC	4GHK8
Fill Height w/ High Level Alarm	220VAC	1½ and 3"	(2)SPST	WLC4000-220VAC	4GHK9
Fill Height w/ High & Low Level Alarm	220VAC	1½, 3, and 6"	(3)SPST	WLC5000-220VAC	4GHL1
Fill Height w/ High & Low Level Alarm & Low Heat Cut Off	220VAC	1½, 3, 6, and 10"	(4)SPST	WLC6000-220VAC	4GHL2

Shell and Tube Heat Exchangers

Standard Xchange®

BRASS
- Max. working pressure: shell side 300 psi; tube side 150 psi
- Max. temp.: shell side 300°F; tube side 300°F

316 STAINLESS STEEL
- Max. working pressure: shell side 225 psi; tube side 150 psi
- Max. temp.: shell side 425°F; tube side 425°F



Max. BtuH (Water to Water)*	Max. BtuH (Oil to Water)**	Connection	H (in.)	L (in.)	W (in.)	BRASS Mfr. Model	BRASS Item No.	316 STAINLESS STEEL Mfr. Model	316 STAINLESS STEEL Item No.
240,000	12,700	Shell 1" NPT, Tube ¾" NPT	4.8	10.375	4.5	SN503003008005	5TNV3	SN516003008006	5TNW4
270,000	28,000	Shell 1" NPT, Tube ¾" NPT	4.8	17.125	4.5	SN503003014005	5TNV4	SN516003014006	5TNW5
330,000	56,000	Shell 1" NPT, Tube ¾" NPT	4.8	27.125	4.5	SN503003024005	5TNV5	SN516003024006	5TNW6
525,000	42,700	Shell 1 ½" NPT, Tube 1" NPT	7	18.812	6.75	SN503005014005	5TNV6	SN516005014006	5TNW7
1,350,000	134,000	Shell 2" NPT, Tube 1 ½" NPT	8.375	29.125	7.75	SN503006024005	5TNV7	SN516006024006	5TNW8
1,600,000	239,000	Shell 2" NPT, Tube 1 ½" NPT	8.375	41.125	7.75	SN503006036005	5TNV8	SN516006036006	5TNW9
2,400,000	280,000	Shell 3" NPT, Tube 2" NPT	11	30.625	10.5	SN503008024005	5TNV9	SN516008024006	5TNX0
2,750,000	400,000	Shell 3" NPT, Tube 2" NPT	11	42.625	10.5	SN503008036005	5TNW0	SN516008036006	5TNX1
3,100,000	516,000	Shell 3" NPT, Tube 2" NPT	11	54.625	10.5	SN503008048005	5TNW1	SN516008048006	5TNX2
3,450,000	631,000	Shell 3" NPT, Tube 2" NPT	11	66.625	10.5	SN503008060005	5TNW2	SN516008060006	5TNX3
3,800,000	649,000	Shell 3" NPT, Tube 2" NPT	11	78.625	10.5	SN503008072005	5TNW3	SN516008072006	5TNX4

** Based on cooling 180°F water with 85°F cooling water and 10 psi pressure differential. ** Heat removed for max. flow (150 SSU oil @ 100°F) exiting @ 120°F with cooling water @ 85°F and 10°F rise.*

Brazed Plate Heat Exchangers

Bell & Gossett a xylem brand

- Max. pressure: 435 psig design (Nos. 6RGF1 to 6RGF6 are 390 psig design)
- Temp. range: -40° to 300°F

Max. BtuH* (Water to Water)	Max. BtuH** (Oil to Water)	Max. BtuH† (R22 to Water)	Connection	W (in.)	COPPER, ASTM 316L STAINLESS STEEL H (in.)	L (in.)	Mfr. Model	Item No.	NICKEL BRAZE, 316L STAINLESS STEEL H (in.)	L (in.)	Mfr. Model	Item No.
Oil												
135,000	12,725	—	1" MNPT	4.37	12.2	1.37	BP410-10-LCA	2NXR4	12.2	1.64	BPN410-10 LCA	6RGD9
350,000	25,450	—	1" MNPT	4.37	12.2	2.34	BP410-20-LCA	2NXR5	12.2	2.61	BPN410-20 LCA	6RGE0
500,000	50,900	—	1" MNPT	4.37	12.2	3.31	BP410-30-LCA	2NXR6	12.2	3.58	BPN410-30 LCA	6RGE1
700,000	76,350	—	1" MNPT	4.37	12.2	4.28	BP410-40-LCA	2NXR7	12.2	4.55	BPN410-40 LCA	6RGE2
1,200,000	127,250	—	1" MNPT	4.37	12.2	6.22	BP410-60-LCA	2NXR9	12.2	6.49	BPN410-60 LCA	6RGE4
1,100,000	190,875	—	2" MNPT	7.48	24.3	3.853	BP422-30-LCA	2NXT7	24.3	4.123	BPN422-30 LCA	6RGF1
2,000,000	279,950	—	2" MNPT	7.48	24.3	6.155	BP422-50-LCA	2NXT9	24.3	6.425	BPN422-50 LCA	6RGF3
2,500,000	381,750	—	2" MNPT	7.48	24.3	7.306	BP422-60-LCA	2NXU1	24.3	7.576	BPN422-60 LCA	6RGF4
5,900,000	509,000	—	2" MNPT	7.48	24.3	9.608	BP422-80-LCA	2NXU2	24.3	9.878	BPN422-80 LCA	6RGF5
5,900,000	636,250	—	2" MNPT	7.48	24.3	11.91	BP422-100-LCA	2NXU3	24.3	12.18	BPN422-100 LCA	6RGF6
Oil, Double Wall												
85,835	32,000	—	1" MNPT	4.37	12.2	2.65	BPDW410-20 LCA	6RGC2	—	—	—	—
134,881	50,000	—	1" MNPT	4.37	12.2	3.78	BPDW410-30 LCA	6RGC3	—	—	—	—
139,610	35,000	—	1" MNPT	4.37	20.7	1.37	BPDW415-10 LCA	6RGC6	—	—	—	—
183,929	65,000	—	1" MNPT	4.37	12.2	4.91	BPDW410-40 LCA	6RGC4	—	—	—	—
282,024	98,000	—	1" MNPT	4.37	12.2	7.16	BPDW410-60 LCA	6RGC5	—	—	—	—
317,243	78,000	—	1" MNPT	4.37	20.7	2.65	BPDW415-20 LCA	6RGC7	—	—	—	—
492,134	123,000	—	1" MNPT	4.37	20.7	3.78	BPDW415-30 LCA	6RGC8	—	—	—	—
661,587	170,000	—	1" MNPT	4.37	20.7	4.91	BPDW415-40 LCA	6RGC9	—	—	—	—
831,000	210,000	—	1" MNPT	4.37	20.7	6.04	BPDW415-50 LCA	6RGD0	—	—	—	—
995,110	242,000	—	1" MNPT	4.37	20.7	7.16	BPDW415-60 LCA	6RGD1	—	—	—	—
1,225,875	320,000	—	1" MNPT	4.37	20.7	9.42	BPDW415-80 LCA	6RGD2	—	—	—	—
1,452,663	395,000	—	1" MNPT	4.37	20.7	11.67	BPDW415-100 LCA	6RGD3	—	—	—	—
1,566,533	450,000	—	1" MNPT	4.37	20.7	13.92	BPDW415-120 LCA	6RGD4	—	—	—	—
Refrigerant												
—	—	6000	1" MNPT, ½" SW	4.37	12.2	1.37	BPR410-10-LCA	2NXU4	12.2	1.64	BPNR410-10 LCA	6RGF7
—	—	12,000	1" MNPT, ½" & ⅞" SW	4.37	12.2	1.76	BPR410-14-LCA	2NXU5	12.2	2.028	BPNR410-14 LCA	6RGF8
—	—	30,000	1" MNPT, ½" & ⅞" SW	4.37	12.2	3.7	BPR410-34-LCA	2NXU6	12.2	3.968	BPNR410-34 LCA	6RGF9
—	—	60,000	1" MNPT, ⅞" SW	4.37	20.7	3.12	BPR415-28-LCA	2NXU7	20.7	3.386	BPNR415-28 LCA	6RGG0
—	—	90,000	1" MNPT, ⅞" SW	4.37	20.7	4.47	BPR415-42-LCA	2NXU8	20.7	4.744	BPNR415-42 LCA	6RGG1
—	—	120,000	1" MNPT, ⅞" SW	4.37	20.7	6.67	BPR415-56-LCA	2NXU9	20.7	6.102	BPNR415-56 LCA	6RGG2
—	—	204,000	2" MNPT, 1⅜" & 1⅝" SW	7.48	24.3	6.155	BPR422-50-LCA	2NXV1	24.3	6.425	BPNR422-50 LCA	6RGG3
Water												
45,000	—	—	1" MNPT	4.37	12.2	2.34	BP411-20-LCA	2NXT1	—	—	—	—
60,000	—	—	¾" MNPT	3.18	8.2	1.21	BP400-10-LCA	2NXP9	8.45	1.45	BPN400-10 LCA	6RGD5
150,000	—	—	¾" MNPT	3.18	8.2	2.02	BP400-20-LCA	2NXR1	8.45	2.23	BPN400-20 LCA	6RGD6
225,000	—	—	¾" MNPT	3.18	8.2	2.83	BP400-30-LCA	2NXR2	8.45	3.01	BPN400-30 LCA	6RGD7
350,000	—	—	¾" MNPT	3.18	8.2	3.64	BP400-40-LCA	2NXR3	8.45	3.79	BPN400-40 LCA	6RGD8
70,000	—	—	1" MNPT	4.37	12.2	3.31	BP411-30-LCA	2NXT2	12.2	3.58	BPN411-30 LCA	6RGE6
180,000	—	—	1" MNPT	4.37	12.2	2.34	BP412-20-LCA	2NXT3	12.2	2.61	BPN412-20 LCA	6RGE7
295,000	—	—	1" MNPT	4.37	12.2	3.31	BP412-30-LCA	2NXT4	12.2	3.58	BPN412-30 LCA	6RGE8
350,000	—	—	1" MNPT	4.37	—	—	—	—	12.2	2.61	BPN411-20 LCA	6RGE5
415,000	—	—	1" MNPT	4.37	12.2	4.28	BP412-40-LCA	2NXT5	12.2	4.55	BPN412-40 LCA	6RGE9
535,000	—	—	1" MNPT	4.37	12.2	5.25	BP412-50-LCA	2NXT6	12.2	5.52	BPN412-50 LCA	6RGF0
900,000	—	—	1" MNPT	4.37	12.2	5.25	BP410-50-LCA	2NXR8	12.2	5.52	BPN410-50 LCA	6RGE3
1,500,000	—	—	2" MNPT	7.48	24.3	5.004	BP422-40-LCA	2NXT8	24.3	5.274	BPN422-40 LCA	6RGF2



No. 2NXP9

** 180°F boiler water inlet, 130°F outlet, 50°F domestic water inlet, 140°F outlet. ** ISO VG_46 oil cooled to 125°F using a 2:1 oil-to-water flow rate and 85°F water. † Cool 2.4 gpm per ton of water from 54° to 44°F using R22 at 35° and 8°F superheat.*

Pneumatic-to-Direct Digital Control (DDC) Room Thermostats



No. 46AE80

Provide reliable zone comfort and enhanced energy economy via remote monitoring and temperature setpoint management. Ideal for energy-saving DDC building upgrades; designed for non-invasive replacement of existing pneumatic units. Various models feature remote wireless setpoint control and occupancy scheduling, and continuous room temperature, branch line pressure, and battery status monitoring.

Johnson Controls

Description	Mfr. Model	Item No.
Wireless 2-Pipe, DA/RA, °F	WT-4002-MFR	**46AE80**
Wireless 2-Pipe w/ Binary Dry Contact Input for Occupancy Sensor (Not Included), °F	WT-4002-MFM	**46AE81**
Wireless 2-Pipe, DA/RA, °C	WT-4002-MCR	**46AE82**
Wireless 2-Pipe w/ Binary Dry Contact Input for Occupancy Sensor (Not Included), °C	WT-4002-MCM	**46AE83**
Wireless Router	WT-ROUTER	**20XG77**
Gateway and BACnet Server	WT-BAC-IP	**20XG78**

Pneumatic Transmitters and Thermostats

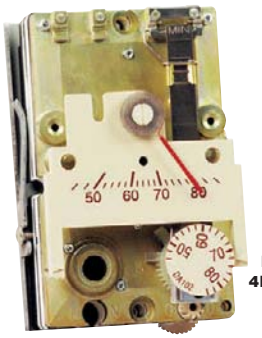
SIEMENS Honeywell Johnson Controls



No. 279A25



No. 38Y185



No. 4E666

Temperature Transmitters—Devices monitor temperature in a variety of applications, particularly those requiring indication with a receiver-controller.

Thermostats—Designed to control pneumatic valves and damper actuators in heating and cooling applications. Cover not included unless specified.

Description	RA/DA	Max. Air Pressure	Temp. Control Range	Capillary Length	Sensing Bulb Dia.	Sensing Bulb Length	Brand	Mfr. Model	Item No.
Pneumatic Temperature Transmitters									
1- or 2-Pipe, Rigid Bulb	DA	30 psi	30° to 180°F	—	7/16"	1 ft. 6"	Powers Controls	356-0750	**4E683**
1-Pipe, Duct Mount, Rigid Bulb	DA	25 psi	25° to 125°F	—	1 1/32"	1 ft. 3"	Honeywell	LP914A1144	**279A21**
	DA	25 psi	-40° to 160°F	—	1 1/32"	1 ft. 3"	Honeywell	LP914A1003	**279A26**
1-Pipe, Rigid Bulb	DA	30 psi	0° to 100°F	—	1/4"	9"	Powers Controls	184-0028	**2KGR1**
	DA	25 psi	40° to 140°F	36"	1/32"	1 ft. 6 1/4"	Honeywell	LP907A1002	**3UC01**
1-Pipe, Well Mount, Rigid Bulb	DA	25 psi	-40° to 160°F	—	1 1/32"	7"	Honeywell	LP914A1060	**3UC06**
	DA	25 psi	40° to 240°F	—	1 1/32"	7"	Honeywell	LP914A1052	**279A24**
2-Pipe, Single Temp., Liquid Filled, Remote Bulb	DA	25 psi	65° to 85°F	36"	3/8"	9 5/8"	Honeywell	LP916A1134	**279A22**
	DA	25 psi	65° to 85°F	36"	1/2"	5 7/8"	Honeywell	LP916A1019	**279A23**
	DA	30 psi	30° to 150°F	60"	3/8"	5 1/4"	Honeywell	LP920A1039	**279A25**
	DA & RA	25 psi	65° to 85°F	36"	3/8"	9 5/8"	Honeywell	LP916B1082	**3UC12**
Liquid-Filled Bulb	DA	25 psi	0° to 100°F	5 1/2"	1/4"	4"	Johnson Controls	T-5210-1002	**38Y185**
	DA	25 psi	40° to 240°F	5 1/2"	1/4"	4"	Johnson Controls	T-5210-1004	**38Y186**
	DA	25 psi	-40° to 160°F	48"	1/4"	4"	Johnson Controls	T-5210-1113	**38Y188**
	DA	25 psi	0° to 100°F	48"	1/4"	4"	Johnson Controls	T-5210-1114	**38Y189**
	DA	30 psi	60° to 85°F	48"	3/8"	3 1/2"	Powers Controls	188-0031	**40PN39**
	DA & RA	30 psi	60° to 85°F	48"	3/8"	3 1/2"	Powers Controls	188-0030	**40PN38**
Liquid-Filled Capillary	DA	25 psi	0° to 100°F	96"	1/4"	4"	Johnson Controls	T-5210-1009	**38Y187**
	DA	25 psi	0° to 100°F	204"	1/4"	4"	Johnson Controls	T-5210-1118	**38Y190**
Pneumatic Low Limit Controllers									
1-Pipe, Duct Mount, Liquid Filled Capillary	Proportional	25	0 to 270	—	—	96	Johnson Controls	T-3610-1001	**38Y130**
1-Pipe, Well Mount, Rigid Bulb	Proportional	25	0 to 270	—	—	18	Johnson Controls	T-3610-1002	**38Y131**

Description	RA/DA	Max. Air Pressure	Temp. Control Range	Mfr. Model	Item No.
Pneumatic Thermostats, Honeywell					
1- or 2-Pipe, Single or 2 Temp.	DA	25 psi	60° to 90°F	TP970A2004	**3UC87**
	DA	25 psi	60° to 90°F	TP970A2145	**3UC88**
	DA	25 psi	60° to 90°F	TP970A2259	**3UC89**
	RA	25 psi	60° to 90°F	TP970B2002	**3UC90**
	RA	25 psi	60° to 90°F	TP970B2077	**3UC91**
	DA	25 psi	Day: 59° to 90°F, Night: 50° to 80°F	TP971A2003	**279A27**
	DA and RA	25 psi	60° to 90°F	TP972A2002	**3UC95**
	DA and RA	25 psi	60° to 90°F	TP972A2192	**279A28**
	DA and RA	25 psi	60° to 90°F	TP973A2076	**3UC99**
Pneumatic Thermostats, Johnson Controls					
2-Pipe, Horizontal	DA	25 psi	55° to 85°F	T-4002-201	**38Y156**
	RA	25 psi	55° to 85°F	T-4002-202	**38Y157**
2-Pipe, Vertical	DA	25 psi	55° to 85°F	T-4002-203	**38Y158**
	RA	25 psi	55° to 85°F	T-4002-204	**38Y159**
2-Pipe Kit, White Cover	DA	25 psi	55° to 85°F	T-4002-301	**38Y160**
	RA	25 psi	55° to 85°F	T-4002-302	**38Y161**
2-Pipe Kit, Beige Cover	DA	25 psi	55° to 85°F	T-4002-303	**38Y162**
	RA	25 psi	55° to 85°F	T-4002-304	**38Y163**
2-Pipe, Horizontal	DA	25 psi	15° to 30°C	T-4002-9008	**38Y170**
	RA	25 psi	12° to 30°C	T-4002-9009	**38Y171**
2-Pipe	DA	25 psi	55° to 85°F	T-4002-9012	**38Y172**
	DA	25 psi	55° to 85°F	T-4054-1	**38Y173**
2-Pipe, 2 Temp., Horizontal	DA	25 psi	55° to 85°F	T-4506-201	**38Y174**
2-Pipe, 2 Temp., Vertical	DA	25 psi	55° to 85°F	T-4506-202	**38Y175**
2-Pipe, 2 Temp., Horizontal	DA	25 psi	55° to 85°F	T-4506-203	**38Y176**
2-Pipe, 2 Temp., Vertical	DA	25 psi	55° to 85°F	T-4506-204	**38Y177**
2-Pipe, 2 Temp., Horizontal	RA	25 psi	55° to 85°F	T-4506-217	**38Y178**
	DA	25 psi	55° to 85°F	T-4516-201	**38Y179**
2-Pipe, Horizontal	DA	25 psi	55° to 85°F	T-4752-201	**38Y180**
	RA	25 psi	55° to 85°F	T-4752-205	**38Y181**
	DA and RA	25 psi	55° to 85°F	T-4756-201	**38Y183**
	RA	25 psi	55° to 85°F	T-4756-205	**38Y184**
Pneumatic Thermostats, Siemens & Powers Controls					
1-Pipe, Single Temp.	DA	30 psi	45° to 85°F	192-200	**2KGP9**
2-Pipe, Single Temp.	DA	30 psi	45° to 85°F	192-202	**4E666**
	RA	30 psi	45° to 85°F	192-203	**4E667**
Dual Setpoint, Day/Night	DA	30 psi	45° to 85°F	192-204	**4E673**
2-Pipe Heat/Cool, 2 Temp.	RA	30 psi	45° to 85°F	192-208	**4E670**
2-Pipe, Single Temp.	DA	30 psi	7° to 30°C	192-222	**40PN28**
Retro-Fit Kit, 2-Pipe, Single Setpoint	DA	30 psi	45° to 85°F	192-840	**4E668**
	DA	30 psi	45° to 85°F	192-841	**4E669**
Retro-Fit Kit, 2-Pipe, Heat/Cool Dual Setpoint	DA and RA	30 psi	45° to 85°F	194-3083	**4E672**
2-Pipe, Single Temp.	DA	30 psi	60° to 85°F	832-0120	**2KGP7**

Description	Mfr. Model	Item No.
Accessories, Honeywell		
Modernization Kit w/ Universal Adapter & Cover, Prepares 3-Pipe Day/Night T-Stat for TP971C T-Stat	14002573-001	**3TZ77**
TRADELINE® In-Line Restrictor, 0.005 Restrictor 1/4 x 5/32 x 1/4"	14002913-001	**3TZ78**
TRADELINE® In-Line Restrictor, 0.007 Restrictor 1/4 x 1/4 x 1/4"	14002913-002	**3TZ79**
TRADELINE® Satin Chrome T-Stat Cover Kit (Incl. Setpoint Slot Cover & 6 Window Inserts)	14004406-910	**3TZ82**
TRADELINE® Beige T-Stat Cover Kit (Incl. Setpoint Slot Cover & 6 Window Inserts)	14004407-910	**3TZ83**
TRADELINE® T-Stat Tool Kit, Incl. Gage Port Needle, T-Stat Tool, & Calibration Wrench	AK3863	**3TZ88**
TRADELINE® T-Stat Calibration Tool & Cover Remover	CCT735A	**3TZ89**
Pneumatic Fitting Kit for Replacement & Repair of Pneumatic Devices	MJK100	**3UC20**
Pneumatic Calibration Kit, Incl. Pressure Bulb Assy., Tubing, In-Line Gage Tee, Gages, Slide Rule, & T-Stat Tools	MQP800	**3UC32**
Accessories, Johnson Controls		
Clear T-Stat Plastic Guard, 7"L x 6"H x 3"D	GRD10A-608	**38Y120**
Beige T-Stat Cover, Horizontal, Blank, 2"L x 3"H x 2"D	T-4000-2138	**38Y134**
Beige T-Stat Cover, Horizontal, No Thermometer, No Windows, 2"L x 3"H x 2"D	T-4000-2139	**38Y135**
Beige T-Stat Cover, Horizontal, No Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-2141	**38Y136**
Beige T-Stat Cover, Horizontal, Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-2142	**38Y137**
Beige T-Stat Cover, Vertical, No Thermometer, No Windows, 2"L x 3"H x 2"D	T-4000-2144	**38Y138**
Beige T-Stat Cover, Vertical, No Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-2145	**38Y139**
Beige T-Stat Cover, Vertical, Thermometer, No Windows, 2"L x 3"H x 2"D	T-4000-2146	**38Y140**
White T-Stat Cover, Horizontal, No Thermometer, No Windows, 2"L x 3"H x 2"D	T-4000-3139	**38Y141**
White T-Stat Cover, Horizontal, No Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-3141	**38Y142**
White T-Stat Cover, Horizontal, Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-3142	**38Y143**
White T-Stat Cover, Vertical, No Thermometer, No Windows, 2"L x 3"H x 2"D	T-4000-3144	**38Y144**
White T-Stat Cover, Vertical, No Thermometer, Single Window, 2"L x 3"H x 2"D	T-4000-3145	**38Y145**
Beige T-Stat Conversion Kit, 1"L x 5"H x 6"D	T-4000-605	**38Y146**
Beige T-Stat Conversion Kit, Single, 1"L x 2 1/2"H x 5"D	T-4000-610	**38Y147**
Beige T-Stat Conversion Kit, Dual, 1"L x 4"H x 5"D	T-4000-611	**38Y148**
White T-Stat Conversion Kit, 1"L x 5"H x 6"D	T-4000-630	**38Y152**
Beige T-Stat Cover, 2"L x 3"H x 2"D	T-4756-1738	**38Y182**
Accessories, Siemens & Powers Controls		
Beige Plastic Cover for Single-Temperature T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Exposed	192-252	**2KGP8**
Beige Plastic Cover for Heat/Cool T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Concealed	192-256	**4E679**
Beige Plastic Cover for Day/Night T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Concealed	192-262	**4E680**
Calibration & Cover Screw Wrench with Pocket Clip; 5 Per Pack	192-632	**4E891**
Retrostat Kit, DA, 2-Pipe, Max. Air Pressure: 30 psi	192-850	**40PN29**

Honeywell Johnson Controls
SIEMENS

Pneumatic Switches, Transducers, Relays, and Valves

Pneumatic Switches—Feature electric pneumatic relays rated at 120V.

Pressure Control—Low pressure control is designed for applications in which a pneumatic air signal is used to operate an electric or electronic device. Applications include pressure-electric switches in pneumatic systems, control of pumps or small air compressors, and pressure-electric interlock of fluid flow systems.

Relays—Perform various functions in a control loop.

Solenoid Air Valves—Commonly used to alternately apply pressure to and exhaust pressure from pneumatically controlled devices.


No. 3UC34


No. 278Y48


No. 4E715

Description	Max. Safe Air PSI	Control Air Pressure	Air Connec.	H (in.)	W (in.)	D (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
Pneumatic Switches										
Pneumatic Signal to Activate Electric Switch, Surface Mount, with Case	30	2 to 24 psi	Barb Fitting for ¼ O.D. Plastic Tubing	5⅜	3⅜	2	—	Honeywell	P658A1013	**3UC33**
Pneumatic Signal to Activate Electric Switch, Panel Mount, w/o Case	30	2 to 24 psi		3⁷⁄₁₆	3¼	1¾	—	Honeywell	P658B1012	**3UC34**
Manual Diverting, Bleed or Blocking	30	0 to 18 psi	⁵⁄₃₂ (4 mm) Barbs	1½	1½	3	—	Honeywell	SP470A1000	**279A14**
Minimum Position	30	Main 18 psi / Pilot 3 to 15 psi		2¼	2½	3½	—	Honeywell	SP970A1005	**279A13**
Pressure Control										
Single Stage	—	3 to 20 psi	⅛" Barbed	3⅛	2³²⁄₃₂	3³⁄₁₆	—	Johnson Controls	P10BC-7C	**40G329**
Transducers										
Electronic Pneumatic Transducer	25	0.5 to 19 psi	⁵⁄₃₂" or ¼" Barb	5"	3"	3"	—	Johnson Controls	EP-8000-2	**36P580**
	30	0 to 18 psi		2⁷⁄₁₆"	3⅝"	2"	—	Honeywell	RP7517B1016	**278Y48**
	30	0 to 30 psi	¼" Barb	3"	5¾"	4¼"	—	Siemens	545-113	**40PN41**
Relays										
Positioning Switch	30	0 to 30 psi	⅛ NPT Female	1⅝	1½	2¾	—	Siemens	141-0600	**4E715**
Electric Pneumatic	50	—	Barb for ¼ Plastic Tubing	2⅛	1¾	1¼	—	Honeywell	RP418A1057	**279A17**
	50	—	Barb for ¼ plastic tubing	2⅛	3¹³⁄₁₆	1¼	—	Honeywell	RP418A1107	**3UC48**
	50	—		2⅛	1¾	1¼	—	Honeywell	RP418B1071	**3UC49**
Pneumatic Control Selector	30	0 to 18 psi	Barb Type For ⁵⁄₃₂ O.D. Plastic Tubing	—	—	1	1½	Honeywell	RP470A1003	**279A15**
	30	3 to 15 psi		1½	1¹³⁄₁₆	2¾	—	Honeywell	RP471A1002	**279A16**
Pneumatic Switching Control	30	3 to 7 psi		—	—	2¼	1½	Honeywell	RP670A1001	**279A19**
	30	13 to 17 psi		—	—	2¾	1½	Honeywell	RP670B1017	**279A20**
Pneumatic Capacity Control	30	0 to 18 psi	Barb for ¼ plastic tubing for port 1, Barb Type For ⁵⁄₃₂ O.D. Plastic Tubing for ports 2,3, and 4	—	—	1½	1½	Honeywell	RP970A1008	**279A18**
Pneumatic Reversing Control	30	18 psi Main, 3 to 15 psi Pilot	Port 1 (Main, Supply) barb for ¼ (6-mm) O.D. tubing Ports 2, 3, and 4 (Branch, Output, Pilot, Input and Exhaust,respectively) barb for ⁵⁄₃₂ (4-mm) O.D. tubing	—	—	2¼	1½	Honeywell	RP972A1006	**3UC63**
Solenoid Air Valves										
Electrically Operated, 2-Position, 3-Way Valve, Open Frame	50	0 to 30 psi	¼" Barb	2⅛	1¾	1⅞	—	Siemens	265-1028	**44C453**
Electrically Operated, 2 Position, 3-Way Valve, Junction Box	50	0 to 30 psi		3¾	3¹³⁄₁₆	1⅜	—	Siemens	265-1022	**4E725**

KMC CONTROLS Johnson Controls
Honeywell SIEMENS

Pneumatic Damper Actuators

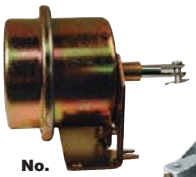
Proportional control of dampers in either independent or sequence operation.

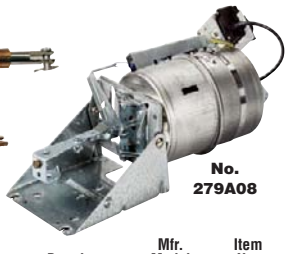
KMC models are for use on VAV terminals, small dampers, and valves. ³⁄₁₆" fitting for ¼" tubing, ½" mounting hole diameter. Operating temperature limit: -20° to 180°F.

Honeywell Nos. 3UC22 to 3UC24 have no bracket or ball joint, and are for direct replacement.

Siemens/Powers™ Controls - most models have pivot mounting.

Johnson Controls models respond to a pneumatic controller or electro-pneumatic transducer.


No. 4DED1


No. 279A08

Operating PSI Range	Max. Air Pressure	Stroke	Nominal Spring Range	Net Force Exerted @ 18 PSI	Net Force Exerted @ 0 PSI	H	L	W	Includes	Brand	Mfr. Model	Item No.
Linear Actuators												
VAV Terminals, Small Dampers												
0 to 20	30 psi	1¹¹⁄₁₆"	5 to 10 psi	67 lb.	34 lb.	4¼"	5½"	4¼"	Mounting Bracket	KMC Controls	MCP-80313101	**4DED1**
	30 psi	1¹¹⁄₁₆"	8 to 13 psi	47 lb.	54 lb.	4¼"	5½"	4¼"	Mounting Bracket	KMC Controls	MCP-80315101	**4DED2**
	30 psi	1¹¹⁄₁₆"	3 to 8 psi	81 lb.	20 lb.	4¼"	5½"	4¼"	Mounting Bracket	KMC Controls	MCP-80318101	**4DED3**
	25 psi	3"	8 to 13 psi	47 lb.	54 lb.	4"	11"	4"	Auxiliary Mounting Bracket	Johnson Controls	D-4073-5	**38Y119**
3 to 8	30 psi	2⁵⁄₈"	3 to 8 psi	36 lb.	9 lb.	2¹³⁄₃₂"	6³⁄₁₆"	—	—	Honeywell	MP909D1201	**3UC22**
5 to 10	30 psi	2⅝"	5 to 10 psi	30 lb.	15 lb.	2¹³⁄₃₂"	6³⁄₁₆"	—	—	Honeywell	MP909D1227	**3UC24**
8 to 13	30 psi	2⅝"	8 to 13 psi	21 lb.	24 lb.	2¹³⁄₃₂"	6³⁄₁₆"	—	—	Honeywell	MP909D1219	**3UC23**
Small Dampers and High Velocity Mixing Boxes												
3 to 13	29 psi	4"	3 to 13 psi	3.3 lb.	19.8 lb.	6⅞"	17"	6⅜"	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1018	**3UC26**
	29 psi	4"	3 to 13 psi	3.3 lb.	19.8 lb.	6⅞"	17"	6⅜"	—	Honeywell	MP909E1026	**3UC27**
3 to 7	20 psi	2⅜"	8 to 13 psi	88 lb.	24 lb.	4¾"	10½"	4¾"	Pivot Post, Mounting Plate, Clevis, and Arm	Powers Controls	331-4811	**2KGP4**
9 to 13	29 psi	3¹⁄₁₀"	9 to 13 psi	3.3 lb.	59.4 lb.	6⅞"	17"	6⅜"	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1174	**279A07**
Medium to Large Dampers												
0 to 20	30 psi	3"	8 to 13 psi	150 lb.	—	8"	12"	6"	Mounting Bracket and Pilot Positioner	Johnson Controls	D-3153-1	**12Y963**
	30 psi	3"	8 to 13 psi	150 lb.	—	6"	12"	6"	Mounting Bracket	Johnson Controls	D-3153-2	**12Y962**
3 to 7	30 psi	4"	3 to 7 psi	121 lb.	33 lb.	4⅝"	10"	4¹⁹⁄₃₂"	—	Powers Controls	331-3000	**40PN45**
3 to 13	29 psi	3½"	3 to 13 psi	89 lb.	50 lb.	6⅞"	18¼"	6⅝"	External Mounting Bracket and Crank Arm Assembly	Honeywell	MP918B1006	**279A06**
	30 psi	4"	3 to 13 psi	55 lb.	33 lb.	4⅝"	10"	4¹⁹⁄₃₂"	—	Powers Controls	331-3001	**40PN46**
	30 psi	6"	3 to 8 psi	179 lb.	54 lb.	7⅛"	14"	7³⁄₁₆"	—	Powers Controls	331-3012	**40PN49**
5 to 10	30 psi	2⅜"	5 to 10 psi	64 lb.	24 lb.	3¹⁵⁄₁₆"	6"	4"	Clevis, Bracket	Powers Controls	331-4514	**40PN43**
8 to 13	25 psi	3½"	8 to 13 psi	83 lb.	160 lb.	8"	20½"	6⅝"	External Mounting Bracket, Crank Arm Assembly, and Positive Positioner	Honeywell	MP918A1024	**279A08**
	30 psi	4"	8 to 13 psi	55 lb.	88 lb.	7½"	20½"	4¾"	Pivot Post and Mounting Plate	Powers Controls	331-2973	**2KGP5**
	30 psi	4"	8 to 13 psi	55 lb.	33 lb.	4⅝"	10"	4¹⁹⁄₃₂"	Clevis	Powers Controls	331-2961	**40PN48**
	30 psi	6"	8 to 13 psi	89 lb.	144 lb.	7⅛"	14"	7³⁄₁₆"	Clevis	Powers Controls	331-2856	**40PN54**
	30 psi	4"	8 to 13 psi	55 lb.	88 lb.	7½"	20¹³⁄₁₆"	4¹⁹⁄₃₂"	Positioning Relay	Powers Controls	332-2973	**40PN47**
	30 psi	6"	8 to 13 psi	89 lb.	144 lb.	7⅛"	14"	7³⁄₁₆"	—	Powers Controls	331-3011	**40PN51**
	30 psi	6"	8 to 13 psi	89 lb.	144 lb.	8½"	20¹³⁄₁₆"	7³⁄₁₆"	Positioning Relay	Powers Controls	332-3011	**40PN52**
Rotary Actuators												
VAV Terminals, Small Dampers												
0 to 20	30 psi	—	5 to 10 psi	85 lb.	42 lb.	4½"	8¼"	4½"	Mounting Bracket	KMC Controls	MCP-36313000	**4DEA7**
	30 psi	—	8 to 13 psi	59 lb.	69 lb.	4½"	8¼"	4½"	Mounting Bracket	KMC Controls	MCP-36315000	**4DEA8**
	30 psi	—	3 to 8 psi	102 lb.	25 lb.	4½"	8¼"	4½"	Mounting Bracket	KMC Controls	MCP-36318000	**4DEA9**
Accessory												
Proportional Pilot Positioner Kit, Control Range 2-12 psi; Pressure Range 2-13 psi; Max. Safe Air 25 psi									Positioner, Spring, Mounting Plate, Hardware	Johnson Controls	D-9502-8	**12Y965**

Pneumatic Receiver-Controllers and Modular Controllers

Johnson Controls—No. 38Y191 directly controls dampers, valves, and other devices in a pneumatic transmission system from a remote transmitter. No. 20RG02 is a pressure independent submaster device for regulating air flow in VAV boxes. No. 20RG03 controls the output volume in response to a reset signal from a thermostat or other master controller.

KMC—For use with pressure switches, receiver gauges, relays, and temperature transmitters to control valves and actuators, including low-limit applications.

Siemens—Use to control temperature, humidity, and pressure of mechanical equipment in commercial buildings. Feature internal restrictors for transmitter inputs and plug-in air connectors. Setpoint can be reset.

Honeywell—Use with remote sensors to provide proportional (P) or proportional plus integral (P+I) control of temperature, humidity, pressure, or dew point.


No. 4DED4



No. 4E685


No. 38Y192


No. 279A05

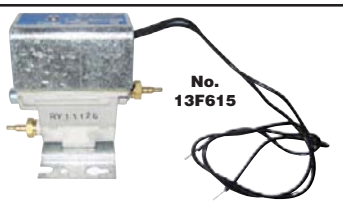

No. 20RG02

Type	H (in.)	W (in.)	D (in.)	Air Input Range (psi)	Gauge	Reset Capability	Output	Control Type	Brand	Mfr. Model	Item No.
Receiver Controller											
Dual Input	5	5	5	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5800-3	**38Y193**
Dual Input w/Remote Set Point Adjustment, High Main Valve Capacity	5¼	4⅜	2⁵⁄₁₆	3 to 30	Optional	Yes	3 to 15 psig	Field Selectable	KMC Controls	CCC-1002	**4DED4**
Multiple Inputs	5¹¹⁄₁₆	6¾	3½	3 to 15	Yes	Yes	0 to 22	Input #1 DA, Input #2 RA, Input #3 Reset	Siemens	195-0003	**4E685**
Single Input	5	5	5	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5800-1	**38Y192**
	5¹¹⁄₁₆	6¾	3½	3 to 15	No	No	0 to 22	Input #1 DA, Input #2 RA	Siemens	195-0011	**4E686**
	8	4	3	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5312-1	**38Y191**
	8	4	3	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-8000-1	**38Y194**
	8	4	3	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-8000-3	**38Y195**
Modular Controller											
Dual Input	5⅞	3¹³⁄₁₆	3⅜	3 to 15	—	—	3 to 13	Field Selectable	Honeywell	RP920B1031	**279A05**
Single Input	5⅞	1⅞	3⅜	3 to 15	—	—	3 to 13	Field Selectable	Honeywell	RP920A1033	**3UC58**

Description	Setpoint Range Max. (in. WC)	Setpoint Range Min. (in. WC)	Main Air Pressure (psig)	Reset Pressure Band	Brand	Mfr. Model	Item No.
Reset Volume Controllers							
NO, Cooling: DADR, Heating: DARR NC, Cooling: RARR, Heating: RADR	0.15 to 3.2	0 to 1.6	13 to 25 psig	3 to 10 psig	Johnson Controls	P-3800-1	**20RG02**
NO, Cooling: DARR, Heating: DADR NC, Cooling: RADR, Heating: RARR	0.15 to 2.5	0 to 0.9				P-3800-2	**20RG03**

Johnson Controls

Pneumatic Solenoid Air Valves


No. 13F615

Series V11 models can be mounted in any position and are for use in applications where the operation of a pneumatically-operated device is dependent upon an electrical circuit.

Item	Type	Contact Action	Control Air Pressure	Air Connec.	Voltage	Mfr. Model	Item No.
Air Switching Valve			11 to 15 psi	¼" Barb	—	V-6135-2	**38Y207**
			15 to 19 psi	¼" Barb	—	V-6135-3	**38Y208**
			2 to 4 psi	¼" Barb	—	V-6135-1	**38Y206**
Solenoid Air Valve	3-Way	NO / NC	0 to 25 psi	⅛" NPT	120VAC	V-2410-2	**38Y204**
				¼" Barb	120VAC	V11HAA-100	**38Y197**
				¼" Barb	120/240VAC	V11HAA-115	**38Y198**
				¼" Barb	220/240VAC	V11HBA-100	**38Y199**
				¼" Barb	208VAC	V11HCA-100	**38Y201**
				¼" Barb	440/480VAC	V11HDA-100	**38Y202**
				¼" Barb	277VAC	V11HFA-100	**20RG21**
				¼" Barb	24VAC	V11HGA-100	**13F615**
				¼" Barb	24VDC	V11PNA-105	**38Y203**
Safety Relief Pilot Valve	—	NO	1 to 20 psi	¼" Barb	—	V-6040-1	**38Y205**


No. 4DDY5

Variable Air Volume (VAV) Control Kits

KMC CONTROLS

Contain all components necessary to field-replace pneumatic controls for each indicated application. For kit contents go to Grainger.com®.

Application	Mfr. Model	Item No.
Cooling Only	KIT-1001	**4DDY4**
Fan Power and Electric Reheat	KIT-1002	**4DDY5**
Fan Power and Hot Water Reheat Up to 22.5K BtuH	KIT-1003	**4DDY6**
Fan Power with Hot Water Reheat Up to 55K BtuH	KIT-1004	**4DDY7**


No. 4DDZ2

Variable Air Volume (VAV) Controller Submasters and Sensors

KMC CONTROLS

SUBMASTERS

- Main air pressure: 15 to 30 psig
- Output sensitivity: 5 psi/0.02" WC
- Setpoint range min.: 0" WC
- Adjustable min./max. velocity limits
- Push-on fittings for ¼" O.D. tubing
- Mounting bracket included

CSC-2000 Series—Designed for use on VAV terminal units in HVAC systems. No. 4DDZ2 has a 0 to 10 molded plastic reference dial.

CSC-3000 Series—Universal replacement for more than 85% of OEM-supplied direct- and reverse-acting pneumatic VAV volume-reset controllers shipped since 1980. Reset start point factory set at 8 psig for Nos. 4DDZ8 and 4DDZ9; 3 psig for No. 4DEA1; and 10 psig for No. 4DEA2.

DIFFERENTIAL PRESSURE FLOW SENSORS

- ½" exterior length
- ¼" push-on nipple

For use with VAV controllers and ⅜" O.D. polyethylene tubing. Easily installed through ⅞" dia. hole in duct.

Control Type	Thermostat Required for Cooling	Thermostat Required for Heating	Setpoint Range (in. wc) Min.	Setpoint Range (in. wc) Max.	Reset Pressure Band	Air Consumption	Mfr. Model	Item No.
Submasters								
DA	DA	RA	0 to 1	Min. + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2001	**4DDZ2**
DA	DA	RA	0 to 1	Min. + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2003	**4DDZ3**
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	14.4 SCIM at 20 psig	CSC-2004	**4DDZ4**
DA	DA	RA	0 to 1	Min. + 1	8 ±0.5 to 13 psig	11.5 SCIM at 20 psig	CSC-2007	**4DDZ5**
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	11.5 SCIM at 20 psig	CSC-2008	**4DDZ6**
DA	DA	RA	0 to 2	Min. + 2	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2009	**4DDZ7**
DA/RA	DA/RA	DA/RA	0 to 1	Min. to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3011-10	**4DDZ8**
DA/RA	DA/RA	DA/RA	0 to 2	Min. to 2	0 to 10 psig	46.1 SCIM at 20 psig	CSC-3025-10	**4DDZ9**
DA/RA	DA/RA	DA/RA	0 to 1	Min. to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3021-10	**4DEA1**
DA/RA	DA/RA	DA/RA	0 to 1	0 to 10 psig	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3023-10	**4DEA2**
VAV Control Sensor Kit, Includes One 3⁹⁄₃₂"L (80 mm) sensor, 1 Sensing Point (SSS-1002), One 5¹³⁄₃₂"L (137 mm) Sensor, 2 Sensing Points (SSS-1003), One 7²¹⁄₃₂"L (195 mm) Sensor, 3 Sensing Points (SSS-1004), One 9²⁹⁄₃₂"L (252 mm) Sensor, 4 Sensing Points (SSS-1005) Installation Guide							KIT-1005	**4DDY8**

Type	Insertion Length (in.)	Overall Length (in.)	Mounting Flange	Mounting Hole Center to Center (in.)	Mfr. Model	Item No.
Differential Pressure Flow Sensors, ¼" Thick Foam Gasket Included						
1 Sensing Point	3⁹⁄₃₂	4	3½ x 1¼"	2¾	SSS-1002	**4DEA3**
2 Sensing Points	5¹³⁄₃₂	6	4½ x 1¼"	3¾	SSS-1003	**4DEA4**
3 Sensing Points	7²¹⁄₃₂	8	5½ x 1¼"	4¾	SSS-1004	**4DEA5**
4 Sensing Points	9²⁹⁄₃₂	10	6½ x 1¼"	5¾	SSS-1005	**4DEA6**

2½" to 6" Pneumatic and Electric Actuated Globe Valves

Johnson Controls

Cast iron flanged globe valves feature brass trim, and are designed primarily to regulate the flow of water and steam in response to the demand of a controller in HVAC systems.

For additional information on actuators, go to Grainger.com®.


No. 41P833


No. 41P633

Description	Mfr. Model	Item No.
Accessories		
Pneum. Valve Actuator Mounting Kit	MP8000-6002	**41P606**
Pneum. Valve Actuator Positioner, 3 to 13 psi	V-9502-95	**41P661**

Valve Design	Valve Config.	Connec. Size	Cv	Mfr. Model	Item No.	Close-Off psi	3 to 7 psi Item No.	Close-Off psi	4 to 8 psi Item No.	Close-Off psi	9 to 13 psi Item No.	Close-Off psi	Floating Item No.	Proportional Item No.	Mounting Kit Item No.	Close-Off psi	Floating Item No.	On / Off Item No.	Proportional Item No.	Mounting Kit Item No.
Valves						**Actuators, Spring-Return Pneumatic**						**Actuators, Non-Spring Return M9000**				**Actuators, Spring-Return M9000†**				
2-Way	NO	2½"	51	VG2231TL	**41P817**	53	41P619	49	41P621	28	41P623	—	—	—	—	—	—	—	—	—
				VG2231TM	**41P818**	109	41P625	100	41P627	58	41P629	101	41P526	41P530	41P445	76	41P593	41P599	41P602	41P445
		3"	83	VG2231UL	**41P819**	37	41P619	34	41P621	19	41P623	—	—	—	—	—	—	—	—	—
				VG2231UM	**41P820**	75	41P630	70	41P631	40	41P632	88	41P526*	41P530*	41P447	66	41P593*	41P599*	41P602*	41P447
				VG2231UN	**41P821**	152	41P633	140	41P634	81	41P635	—	—	—	—	—	—	—	—	—
		4"	150	VG2231VM	**41P822**	42	41P630	39	41P631	23	41P632	49	41P526*	41P530*	41P447	37	41P593*	41P599*	41P602*	41P447
				VG2231VN	**41P823**	86	41P633	79	41P634	46	41P635	—	—	—	—	—	—	—	—	—
		5"	240	VG2231WN	**41P824**	55	41P636	51	41P637	29	41P638	26	41P526*	41P530*	41P449	20	41P593*	41P599*	41P602*	41P449
		6"	350	VG2231YN	**41P825**	38	41P636	35	41P637	20	41P638	16	41P526*	41P530*	41P451					
	NC	2½"	51	VG2431TM	**41P826**	24	41P625	32	41P627	75	41P629									
		3"	83	VG2431UM	**41P827**	17	41P630	22	41P631	52	41P632									
				VG2431UN	**41P828**	34	41P633	46	41P634	105	41P635	—	—	—	—	—	—	—	—	—
		4"	150	VG2431VM	**41P829**	9	41P630	13	41P631	29	41P632									
				VG2431VN	**41P830**	19	41P633	26	41P634	59	41P635									
		5"	240	VG2431WN	**41P831**	12	41P636	17	41P637	38	41P638									
		6"	350	VG2431YN	**41P832**	9	41P636	11	41P637	26	41P638									
3-Way Mixing	—	2½"	54	VG2831TM	**41P833**	65 / 14	41P625	60 / 19	41P627	35 / 45	41P629	60	41P526	41P530	41P445	45	41P593	41P599	41P602	41P445
		3"	80	VG2831UM	**41P834**	45 / 10	41P630	42 / 13	41P631	24 / 31	41P632	53	41P526*	41P530*	41P447	40	41P593*	41P599*	41P602*	41P447
				VG2831UN	**41P835**	91 / 21	41P633	84 / 28	41P634	49 / 63	41P635	—	—	—	—	—	—	—	—	—
		4"	157	VG2831VM	**41P836**	25 / 6	41P630	23 / 8	41P631	14 / 18	41P632	30	41P526*	41P530*	41P447	11	41P593	41P599	41P602	41P446
				VG2831VN	**41P837**	51 / 12	41P633	47 / 16	41P634	27 / 35	41P635	—	—	—	—	22	41P593*	41P599*	41P602*	41P447
		5"	238	VG2831WN	**41P838**	33 / 7	41P636	23 / 8	41P637	18 / 23	41P638	15	41P526*	41P530*	41P449	12	41P593*	41P599*	41P602*	41P449
		6"	347	VG2831YN	**41P839**	23 / 5	41P636	21 / 7	41P637	12 / 16	41P638	9	41P526*	41P530*	41P451	7	41P593*	41P599*	41P602*	41P451

** Two actuators required. † Actuators can be configured to spring return either open or closed.*

Honeywell SIEMENS

Pneumatic Valves


No. 3UD19

UNITARY
- Body pressure rating: 250 psi
- Max. controlled medium temp.: 250°F

GLOBE
- Body pressure rating: 250 psi
- Media temp. range: 35° to 250°F

Valve Type	Cv	Pipe (in.)	Spring Range (psi)	Close Off Rating @ Main PSI	Brand	Mfr. Model	Item No.
Unitary							
2-Way NO	1.6	½ OD	3-10	45 @ 13	Honeywell	VP527A1034	**3UD21**
	2.5	⅜ OD	3-7	79 @ 13	Honeywell	VP513A1188	**279A03**
2-Way NC	2.5	⅜ OD	9-13	50 @ 7	Honeywell	VP513B1053	**279A02**
3-Way	1.6	½ ODF	2-5	58 @ 13	Honeywell	VP526A1092	**3UD20**
	1.6	⅝ ODF	2-5	58 @ 13	Honeywell	VP526A1027	**3UD19**
Globe							
2-Way NO	2.5	½ NPT	3-8	45 @ 20	Siemens	257-02038	**6YC71**
	2.5	½ NPT	3-8	45 @ 0	Siemens	257-02039	**25DW44**
	4	½ NPT	3-8	45 @ 20	Siemens	257-02041	**2KGR2**
	6.3	¾ NPT	3-8	35 @ 20	Siemens	257-02044	**6YC72**
2-Way NC	2.5	½ NPT	10-15	50 @ 0	Siemens	256-02008	**6YC70**
3-Way	4	½ NPT	8-13	50 @ 0	Siemens	258-02069	**6YC73**

SIEMENS

2- and 3-Way Globe Valves

Used for hot or chilled water on convectors, fan coil units, unit conditioners, radiation, reheat coils, and similar terminal units. Normally open. 3-position models include wiring adapters for ⅜" flex conduit and plenum cable. All models are UL Plenum Rated and C-UL Listed.


No. 5GED2

Specifications	Connec. Type/Size (in.)	Cv	Mfr. Model	Item No.
2 Position On/Off	(F)NPT ½	1	243-00210	**5GED2**
	(F)NPT ½	2.5	243-00211	**5GED3**
	(F)NPT ¾	4.1	243-00212	**5GED4**
2 Position Floating	(F)NPT ½	0.4	259-02030	**5GEC7**
3 Position Floating	(F)NPT ½	0.63	259-02032	**5GEC8**
	(F)NPT ½	1	259-02034	**5GEC9**
	(F)NPT ½	1.6	259-02036	**5GED0**
	(F)NPT ½	2.5	259-02038	**5GED1**

Honeywell Honeywell Home

Electric Globe Valves

2-Way, Direct Acting—Provide equal percentage characteristics of flow for close control of water, and linear characteristics of flow for close control of steam.

2- and 3-Way, Cartridge—Long stroke allows wider range of control. Soft valve seat provides low leakage rate. Threaded plastic cover with handle for manual operation. Easily installed in areas where space is limited.

2- and 3-Way, Cartridge Cage—Actuator can be removed without draining system. For use with floating actuators, sold separately. No tools required for actuator installation or removal. Service is by replacement of cartridge, not valve body. 2-way bodies can be plumbed in either direction. 3-way bodies can be used in diverting or mixing applications.


No. 279A99

Item	Type	For Use With	Brand	Mfr. Model	Item No.
Accessories					
Actuator	Floating Low Voltage	V5852, V5862, V5853, V5863 valves	Honeywell	M6410A1029	**4ARY8**
	Modulating Low Voltage	V5852, V5862, V5853, V5863 valves	Honeywell	M7410F1000	**4ARY9**
	2-Postition Low Voltage	VC Series Valves, and a SPDT Controller	Honeywell	VC2114ZZ11	**278Y99**
	2-Postition Line Voltage	VC Series Valves	Honeywell Home	VC4011ZZ11	**4ATD4**
	Floating Low Voltage	VC Series Valves,4ATD8,4ATD9,4ATE1	Honeywell Home	VC6934ZZ11	**4ATD5**
	Modulating Low Voltage	VC Series Valves	Honeywell	VC7934ZZ11	**278Z01**
	2-Postition Low Voltage With End Switch	VC Series Valves, and a SPST Controller,	Honeywell	VC8714ZZ11	**278Z07**
Globe Valve Linkage	¾ in Stroke and ½ in Shaft	V5011N globe valves, direct coupled actuators	Honeywell	Q5020A1003	**278Z06**

Type	Connec. Type/ Size (in.)	Cv	Mfr. Model	Item No.
Threaded Globe Valves, Honeywell				
2-Way, DA	(F)NPT ½	0.73	V5011N1008	**279A99**
	(F)NPT ½	1.16	V5011N1016	**279C14**
	(F)NPT ½	1.85	V5011N1024	**279A97**
	(F)NPT ½	2.9	V5011N1032	**279C15**
	(F)NPT ½	4.7	V5011N1040	**279A81**
	(F)NPT ¾	7.3	V5011N1057	**279A87**
	(F)NPT 1	11.7	V5011N1065	**279A76**
	(F)NPT 1¼	18.7	V5011N1073	**279A85**
	(F)NPT 1½	29	V5011N1081	**279A89**
	(F)NPT 2	46.8	V5011N1099	**279C06**
2-Way, Cartridge	(F)NPT ½	0.47	V5862A2021	**279A86**
	(F)NPT ½	1.2	V5862A2047	**279A92**
	(F)NPT ½	1.9	V5862A2054	**279A88**
	(F)NPT ¾	4.9	V5862A2070	**279A75**
Solder Globe Valves, Honeywell				
2-Way, Cartridge	Sweat ½	1.2	V5852A2049	**4ATC2**
	Sweat ¾	4.9	V5852A2072	**279C10**
3-Way, Cartridge	Sweat ½	1.9	V5853A2048	**279A96**
	Sweat ¾	4.9	V5853A2063	**279C09**
2-Way, Cartridge Cage	Sweat ½	3.5	VCZAA1100	**279A93**
Cartridge Valves, Honeywell				
2-Way, Cartridge Cage	(F)NPT ½	3.5	VCZBB1100	**279A83**
Solder Globe Valves, Honeywell				
3-Way, Cartridge Cage	(F)NPT ½	3.7	VCZNB6100	**279A74**

Scan. Order. Done.
Details on page A1.



No. 41P549



No. 41P602



No. 41P461



No. 2UPH2



No. 36G971

Johnson Controls SIEMENS Honeywell KMC CONTROLS BELIMO

Electric Damper Actuators

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Johnson Controls						
Spring-Return						
27 in.-lb.	On/Off, Floating	150 sec.	24VAC/DC	—	M9203-AGA-2	**41P549**
	On/Off, Floating	90 sec.	24VAC/DC	—	M9203-AGA-2Z	**41P550**
	On/Off, Floating	150 sec.	24VAC/DC	SPDT	M9203-AGB-2	**41P551**
	On/Off, Floating	90 sec.	24VAC/DC	SPDT	M9203-AGB-2Z	**41P552**
	On/Off	Less than 75 sec.	24VAC/DC	—	M9203-BGA-2	**41P553**
	On/Off	Less than 75 sec.	24VAC/DC	SPDT	M9203-BGB-2	**41P554**
	On/Off	Less than 75 sec.	85-264VAC	—	M9203-BUA-2	**41P555**
	On/Off	Less than 30 sec.	85-264VAC	—	M9203-BUA-2Z	**41P556**
	On/Off	Less than 75 sec.	85-264VAC	SPDT	M9203-BUB-2	**41P557**
	On/Off	Less than 30 sec.	85-264VAC	SPDT	M9203-BUB-2Z	**41P558**
	Proportional	150 sec.	24VAC/DC	—	M9203-GGA-2	**41P559**
	Proportional	90 sec.	24VAC/DC	—	M9203-GGA-2Z	**41P560**
	Proportional	150 sec.	24VAC/DC	SPDT	M9203-GGB-2	**41P561**
	Proportional	90 sec.	24VAC/DC	SPDT	M9203-GGB-2Z	**41P562**
70 in.-lb.	On/Off, Floating	150 sec.	24VAC/DC	—	M9208-AGA-2	**41P572**
	On/Off, Floating	150 sec.	24VAC/DC	—	M9208-AGA-3	**41P573**
	On/Off, Floating	150 sec.	24VAC/DC	2 SPDT	M9208-AGC-3	**41P574**
	On/Off	Less than 75 sec.	120VAC	—	M9208-BAA-3	**41P575**
	On/Off	Less than 75 sec.	120VAC	2 SPDT	M9208-BAC-3	**41P576**
	On/Off	Less than 75 sec.	230VAC	—	M9208-BDA-3	**41P577**
	On/Off	Less than 75 sec.	230VAC	2 SPDT	M9208-BDC-3	**41P578**
	On/Off	Less than 75 sec.	24VAC/DC	—	M9208-BGA-3	**41P579**
	On/Off	Less than 75 sec.	24VAC/DC	2 SPDT	M9208-BGC-3	**41P580**
	Proportional	150 sec.	24VAC/DC	—	M9208-GGA-2	**41P581**
	Proportional	150 sec.	24VAC/DC	—	M9208-GGA-3	**41P582**
	Proportional	150 sec.	24VAC/DC	2 SPDT	M9208-GGC-3	**41P583**
177 in.-lb.	On/Off, Floating	150 sec.	24VAC/DC	—	M9220-AGA-3	**41P593**
	On/Off, Floating	150 sec.	24VAC/DC	2 SPDT	M9220-AGC-3	**41P594**
	On/Off	24 to 57 sec.	120VAC	—	M9220-BAA-3	**41P595**
	On/Off	24 to 57 sec.	120VAC	2 SPDT	M9220-BAC-3	**41P596**
	On/Off	24 to 57 sec.	230VAC	—	M9220-BDA-3	**41P597**
	On/Off	24 to 57 sec.	230VAC	2 SPDT	M9220-BDC-3	**41P598**
	On/Off	24 to 57 sec.	24VAC/DC	—	M9220-BGA-3	**41P599**
	On/Off	24 to 57 sec.	24VAC/DC	2 SPDT	M9220-BGC-3	**41P601**
	Proportional	150 sec.	24VAC/DC	—	M9220-GGA-3	**41P602**
	Proportional	150 sec.	24VAC/DC	2 SPDT	M9220-GGC-3	**41P603**
	Proportional	150 sec.	24VAC/DC	—	M9220-HGA-3	**41P604**
	Proportional	150 sec.	24VAC/DC	2 SPDT	M9220-HGC-3	**41P605**
Non-Spring-Return						
18 in.-lb.	Floating	36 sec.	24VAC	—	M9102-AGA-1S	**41P461**
	Floating	30 sec.	24VAC	—	M9102-AGA-2S	**41P462**
	Floating	30 sec.	24VAC	—	M9102-AGA-3S	**41P463**
	On/Off, Floating	30 sec.	24VAC	—	M9102-IGA-2S	**41P464**
	On/Off, Floating	30 sec.	24VAC	—	M9102-IGA-3S	**41P465**
35 in.-lb.	Floating	72 sec.	24VAC	—	M9104-AGA-1S	**41P467**
	Floating	60 sec.	24VAC	—	M9104-AGA-2S	**41P468**
	Floating	60 sec.	24VAC	—	M9104-AGA-3S	**41P469**
	Floating	60 sec.	20-30VAC	—	M9104-AGP-2S	**35LY73**
	Proportional	60 sec.	24VAC	—	M9104-GGA-2S	**41P470**
	Proportional	60 sec.	24VAC	—	M9104-GGA-3S	**41P471**
	On/Off, Floating	60 sec.	24VAC	—	M9104-IGA-2S	**41P472**
	On/Off, Floating	60 sec.	24VAC	—	M9104-IGA-3S	**41P473**
	Floating with Timeout	60 sec.	100-240VAC	—	M9104-IUA-2S	**35LY72**
53 in.-lb.	Floating	60 sec.	24VAC	—	M9106-AGA-2	**41P474**
	Floating	60 sec.	24VAC	—	M9106-AGA-2N01	**20XH80**
	Floating	120 sec.	24VAC	—	M9106-AGA-2N02	**20XH81**
	Floating	60 sec.	24VAC	—	M9106-AGA-4	**41P475**
	Floating	60 sec.	24VAC	—	M9106-AGA-5	**41P476**
	Floating	60 sec.	24VAC	2 SPDT	M9106-AGC-2	**41P477**
	Floating	60 sec.	24VAC	2 SPDT	M9106-AGC-4	**41P478**
	Floating	60 sec.	24VAC	2 SPDT	VA9310-HGA-1	**41P479**
	Floating	60 sec.	24VAC	—	M9106-AGF-2	**41P480**
	Floating	120 sec.	24VAC	—	M9106-AGS-2N02	**20XH82**
	Proportional	60 sec.	24VAC	—	M9106-GGA-2	**41P481**
	Proportional	60 sec.	24VAC	—	M9106-GGA-4	**41P482**
	Proportional	60 sec.	24VAC	2 SPDT	M9106-GGC-2	**41P484**
	Proportional	60 sec.	24VAC	2 SPDT	M9106-GGC-4	**41P485**
	Proportional	60 sec.	24VAC	2 SPDT	M9106-GGC-5	**41P486**
	On/Off, Floating	60 sec.	24VAC	—	M9106-IGA-2	**41P487**
	Floating	60 sec.	24VAC	—	M9106-IGA-4	**41P488**
	Floating	60 sec.	24VAC	—	M9106-IGA-5	**41P489**
	On/Off, Floating	60 sec.	24VAC	2 SPDT	M9106-IGC-2	**41P490**
	Floating	60 sec.	24VAC	2 SPDT	M9106-IGC-4	**41P491**
	Floating	60 sec.	24VAC	2 SPDT	M9106-IGC-5	**41P492**

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
70 in.-lb.	On/Off, Floating	25 to 50 sec.	24VAC/DC	—	M9108-AGA-2	**41P493**
	On/Off, Floating	25 to 50 sec.	24VAC/DC	2 SPDT	M9108-AGC-2	**41P494**
	On/Off, Floating	25 to 50 sec.	24VAC/DC	—	M9108-AGD-2	**41P495**
	On/Off, Floating	25 to 50 sec.	24VAC/DC	—	M9108-AGE-2	**41P496**
	Proportional	25 to 50 sec.	24VAC/DC	—	M9108-GGA-2	**41P497**
	Proportional	25 to 50 sec.	24VAC/DC	2 SPDT	M9108-GGC-2	**41P498**
	Proportional	25 to 50 sec.	24VAC/DC	—	M9108-HGA-2	**41P499**
	Proportional	25 to 50 sec.	24VAC/DC	2 SPDT	M9108-HGC-2	**41P501**
	Resistive	25 to 50 sec.	24VAC/DC	—	M9108-JGA-2	**41P502**
	Resistive	25 to 50 sec.	24VAC/DC	2 SPDT	M9108-JGC-2	**41P503**
80 in.-lb.	Floating	60 sec.	24VAC/DC	—	M9109-AGA-4	**41P505**
	Floating	60 sec.	24VAC/DC	—	M9109-AGA-5	**41P506**
	Floating	60 sec.	24VAC/DC	2 SPDT	M9109-AGC-2	**41P507**
	Floating	60 sec.	24VAC/DC	2 SPDT	M9109-AGC-4	**41P508**
	Floating	60 sec.	24VAC/DC	2 SPDT	M9109-AGC-5	**41P509**
	Proportional	60 sec.	24VAC	—	M9109-GGA-2	**41P510**
	Proportional	60 sec.	24VAC/DC	—	M9109-GGA-4	**41P511**
	Proportional	60 sec.	24VAC/DC	—	M9109-GGA-5	**41P512**
	Proportional	60 sec.	24VAC/DC	2 SPDT	M9109-GGC-2	**41P513**
	Proportional	60 sec.	24VAC/DC	2 SPDT	M9109-GGC-4	**41P514**
	Proportional	60 sec.	24VAC/DC	2 SPDT	M9109-GGC-5	**41P515**
140 in.-lb.	On/Off, Floating	70 to 115 sec.	24VAC/DC	—	M9116-AGA-2	**41P516**
	On/Off, Floating	70 to 115 sec.	24VAC/DC	2 SPDT	M9116-AGC-2	**41P517**
	On/Off, Floating	70 to 115 sec.	24VAC/DC	—	M9116-AGD-2	**41P518**
	On/Off, Floating	70 to 115 sec.	24VAC/DC	—	M9116-AGE-2	**41P519**
	Proportional	70 to 115 sec.	24VAC/DC	—	M9116-GGA-2	**41P520**
	Proportional	70 to 115 sec.	24VAC/DC	2 SPDT	M9116-GGC-2	**41P521**
	On/Off	70 to 115 sec.	24VAC/DC	—	M9116-HGA-2	**41P522**
	On/Off	70 to 115 sec.	24VAC/DC	2 SPDT	M9116-HGC-2	**41P523**
	Resistive	70 to 115 sec.	24VAC/DC	—	M9116-JGA-2	**41P524**
	Resistive	70 to 115 sec.	24VAC/DC	2 SPDT	M9116-JGC-2	**41P525**
210 in.-lb.	On/Off, Floating	115 to 175 sec.	24VAC/DC	—	M9124-AGA-2	**41P526**
	On/Off, Floating	115 to 175 sec.	24VAC/DC	2 SPDT	M9124-AGC-2	**41P527**
	On/Off, Floating	115 to 175 sec.	24VAC/DC	—	M9124-AGD-2	**41P528**
	On/Off, Floating	115 to 175 sec.	24VAC/DC	—	M9124-AGE-2	**41P529**
	Proportional	115 to 175 sec.	24VAC/DC	—	M9124-GGA-2	**41P530**
	Proportional	117 to 175 sec.	24VAC/DC	2 SPDT	M9124-GGC-2	**41P531**
	On/Off	115 to 175 sec.	24VAC/DC	—	M9124-HGA-2	**41P532**
	On/Off	115 to 175 sec.	24VAC/DC	2 SPDT	M9124-HGC-2	**41P533**
	Resistive	115 to 175 sec.	24VAC/DC	—	M9124-JGA-2	**41P534**
	Resistive	115 to 175 sec.	24VAC/DC	2 SPDT	M9124-JGC-2	**41P535**
280 in.-lb.	On/Off, Floating	115 to 205 sec.	24VAC/DC	—	M9132-AGA-2	**41P536**
	On/Off, Floating	115 to 205 sec.	24VAC/DC	2 SPDT	M9132-AGC-2	**41P537**
	On/Off, Floating	115 to 205 sec.	24VAC/DC	—	M9132-AGE-2	**41P538**
	Proportional	115 to 205 sec.	24VAC/DC	—	M9132-GGA-2	**41P539**
	Proportional	115 to 205 sec.	24VAC/DC	2 SPDT	M9132-GGC-2	**41P540**
Siemens						
Spring-Return						
20 in.-lb.	Modulating	15 sec.	24VAC/DC	—	GQD151.1P	**2WXU2**
	On/Off	15 sec.	24VAC/DC	—	GQD121.1P	**2UPH7**
	On/Off	15 sec.	120VAC	—	GQD221.1U	**5WYD9**
53 in.-lb.	On/Off	15 sec.	24VAC/DC	—	GND121.1U	**5WYE0**
	On/Off	15 sec.	24VAC/DC	SPDT	GND126.1U	**5WYE6**
	On/Off	15 sec.	120VAC	—	GND221.1U	**5WYE1**
	On/Off	15 sec.	120VAC	2 SPDT	GND226.1U	**5WYE7**
62 in.-lb.	Floating	90 sec.	24VAC/DC	—	GMA131.1P	**40PN55**
	Modulating	90 sec.	24VAC/DC	—	GMA161.1P	**2UPH3**
	On/Off	90 sec.	24VAC/DC	2 SPDT	GMA126.1P	**5WYE5**
	On/Off	90 sec.	24VAC/DC	—	GMA121.1P	**2UPH6**
	On/Off	90 sec.	120VAC	—	GMA221.1U	**5WYD8**
	On/Off	90 sec.	120VAC	2 SPDT	GMA226.1U	**5WYE3**
160 in.-lb.	Modulating	90 sec.	24VAC/DC	—	GCA161.1P	**2UPH2**
	Modulating	90 sec.	24VAC/DC	—	GCA151.1P	**40PN56**
	On/Off	90 sec.	24VAC/DC	2 SPDT	GCA126.1P	**5WYE4**
	On/Off	90 sec.	24VAC/DC	—	GCA121.1P	**2UPH5**
	On/Off	90 sec.	120VAC	—	GCA221.1U	**5WYD7**
	On/Off	90 sec.	120VAC	SPDT	GCA226.1U	**5WYE2**
Non-Spring-Return						
44 in.-lb.	Floating	90 sec.	24VAC	—	GDE131.1P	**2UPH1**
	Modulating	90 sec.	24VAC	—	GDE161.1P	**2UPH4**
88 in.-lb.	Modulating	125 sec.	24VAC	—	GLB161.1P	**36G974**
132 in.-lb.	Floating	125 sec.	24VAC	—	GEB131.1U	**36G971**
	Modulating	125 sec.	24VAC	—	GEB161.1U	**36G972**
221 in.-lb.	Floating	125 sec.	24VAC	—	GBB131.1U	**36G969**
	Modulating	125 sec.	24VAC	—	GBB161.1U	**36G970**
310 in.-lb.	Floating	125 sec.	24VAC	—	GIB131.1U	**36G967**
	Modulating	125 sec.	24VAC	—	GIB161.1U	**36G968**

CONTINUED

Find even MORE on Grainger.com®

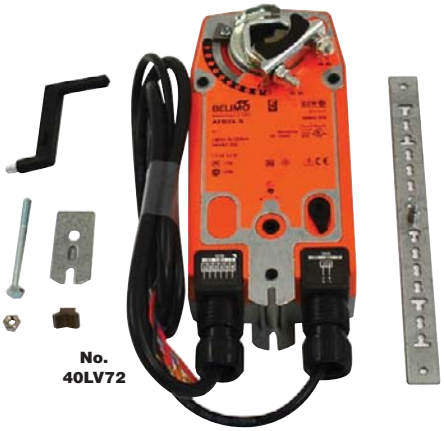
CONTINUED



No. 34GR10



NO. 6HXU7



No. 40LV72

Johnson Controls SIEMENS Honeywell KMC CONTROLS BELIMO

Electric Damper Actuators

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Honeywell						
Spring-Return						
27 in.-lb.	On/Off	25 sec.	24VAC/DC	SPST	MS8103A1130	**6LJL0**
	On/Off	25 sec.	100-240VAC	SPST	MS4103A1030	**278Y38**
30 in.-lb.	On/Off	15 sec.	24VAC	—	MS8104F1010	**34GR11**
	On/Off	15 sec.	120VAC	2 PSDT	MS4104F1010	**34GR10**
44 in.-lb.	Floating	25 sec.	24VAC/DC	SPDT	MS7505W2030	**278Y41**
	On/Off	25 sec.	24VAC/DC	2 SPST	MS8105W1030	**6XKH3**
	On/Off	25 sec.	24VAC/DC	SPST	MS8105A1030	**278Y20**
	On/Off	25 sec.	24VAC/DC	SPST	MS8105A1130	**278Y42**
	On/Off	25 sec.	120/230VAC	SPST	MS4105A1030	**278Y33**
	On/Off, Floating	25 sec.	24VAC/DC	SPDT	MS7505A2130	**6HMH3**
	On/Off, Floating	25 sec.	24VAC/DC	SPDT	MS7505A2030	**278Y12**
80 in.-lb.	On/Off	15 sec.	24VAC	5 SPDT	MS8109F1010	**278Y30**
	On/Off	15 sec.	120VAC	—	MS4109F1010	**34GR12**
88 in.-lb.	Floating	20 sec.	24VAC/DC	Modulating/ Floating	MS7510W2206	**6XKH0**
	On/Off	20 sec.	24VAC/DC	SPST	MS8110A1008	**278Y34**
	On/Off	20 sec.	100-240VAC	SPST	MS4110A1002	**278Y21**
	On/Off	20 sec.	100-240VAC	2 SPDT	MS4110A1200	**278Y31**
	On/Off, Floating	20 sec.	24VAC/DC	SPDT	MS7510A2008	**2HFD6**
175 in.-lb.	Floating	20 sec.	24VAC	Modulating/ Floating	MS7520W2205	**6XKH2**
	Floating	20 sec.	24VAC	Modulating/ Floating	MS7520W2007	**278Y39**
	On/Off	15 sec.	24VAC	SPST	MS8120F1002	**278Y16**
	On/Off	15 sec.	24VAC	2 SPDT	MS8120F1200	**278Y17**
	On/Off	15 sec.	120VAC	SPST	MS4120F1006	**2HEY9**
	On/Off	15 sec.	120VAC	2 SPDT	MS4120F1204	**2HEZ1**
	On/Off	20 sec.	24VAC/DC	2 SPST	MS8120W1205	**278Y43**
	On/Off	20 sec.	100-240VAC	SPST	MS4120A1001	**278Y23**
	On/Off	20 sec.	100-240VAC	2 SPDT	MS4120A1209	**278Y24**
	On/Off, Floating	20 sec.	24VAC	SPDT	MS7520A2007	**2HFE3**
Non-Spring-Return						
44 in.-lb.	On/Off, Floating	95 sec.	24VAC/DC	SPDT	MN7505A2001	**278Y11**
	On/Off, Floating	95 sec.	24VAC/DC	SPDT	MN6105A1011	**278Y13**
70 in.-lb.	On/Off, Floating	90 sec.	24VAC	SPDT	ML6174B2019	**278Y14**
	Proportional	90 sec.	24VAC	—	ML7174A2001	**278Y27**
KMC Controls						
Non-Spring-Return						
40 in.-lb.	Floating	90 sec.	24VAC/DC	—	MEP-4001	**6HXU4**
	Floating	90 sec.	24VAC/DC	—	MEP-4003	**6HXU6**
	Proportional	90 sec.	24VAC/DC	—	MEP-4002	**6HXU5**
Capacitor Failsafe						
320 in.-lb.	Floating	90 to 115 sec. and 80 to 115 sec.	24VAC/DC	—	MEP-7851	**6HXU7**
	Floating	90 to 115 sec. and 80 to 115 sec.	24VAC/DC	—	MEP-7853	**6HXU9**
	Proportional	90 to 115 sec.	24VAC/DC	—	MEP-7852	**6HXU8**

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Belimo						
Spring-Return						
22 in.-lb.	On/Off	75 sec.	24VAC/DC	—	TFRB24	**42FG37**
	On/Off	75 sec.	100-240VAC	SPDT	TFB120-S	**42FG39**
30 in.-lb.	On/Off	15 sec.	120VAC	—	FSLF120	**40LV79**
35 in.-lb.	MFT	150 sec.	24VAC/DC	—	LF24-MFT	**40LV86**
	On/Off	75 sec.	24VAC/DC	—	LF24	**40LV84**
	On/Off	75 sec.	24VAC/DC	SPDT	LF24-S	**40LV87**
	On/Off	75 sec.	120VAC	—	LF120	**40LV82**
	On/Off	75 sec.	120VAC	SPDT	LF120-S	**40LV83**
	On/Off, Floating	150 sec.	24VAC/DC	—	LF24-3	**40LV85**
	Proportional	150 sec.	24VAC/DC	—	LF24-SR	**40LV88**
70 in.-lb.	On/Off	15 sec.	120VAC	—	FSNF120	**40LV80**
90 in.-lb.	Proportional	95 sec.	24VAC/DC	—	NFB24-SR	**40LV94**
180 in.-lb.	MFT	150 sec.	24VAC/DC	—	AFB24-MFT	**40LV71**
	On/Off	25 sec.	120VAC	—	FSAF120A	**467F89**
	On/Off	75 sec.	24-240VAC	—	AFBUP	**40LV74**
	On/Off	75 sec.	24-240VAC	2 SPDT	AFBUP-S	**40LV75**
	On/Off	75 sec.	24VAC/DC	—	AFB24	**40LV70**
	On/Off	75 sec.	24VAC/DC	2 SPDT	AFB24-S	**40LV72**
	On/Off	95 sec.	24VAC/DC	—	AFRB24-SR	**40LV76**
	Proportional	95 sec.	24VAC/DC	—	AFB24-SR	**40LV73**
Non-Spring Return						
45 in.-lb.	On/Off, Floating	90 sec.	24VAC/DC	—	LRB24-3	**40LV92**
	On/Off, Floating	150 sec.	24VAC/DC	—	LMB24-3	**40LV89**
	On/Off, Floating	150 sec.	24VAC/DC	—	LMB24-3-T	**40LV90**
	Proportional	90 sec.	24VAC/DC	—	LRB24-SR	**40LV93**
	Proportional	95 sec.	24VAC/DC	—	LMB24-SR	**40LV91**
	Proportional	95 sec.	24VAC/DC	—	LMB24-SR-T	**42FG35**
90 in.-lb.	MFT	150 sec.	24VAC/DC	—	NMB24-MFT	**42FG31**
	On/Off, Floating	95 sec.	24VAC/DC	—	NMB24-3	**40LV95**
	Proportional	150 sec.	24VAC/DC	—	NMB24-SR	**40LV96**
180 in.-lb.	On/Off, Floating	95 sec.	24VAC/DC	—	AMB24-3	**35YK09**
	Proportional	90 sec.	24VAC/DC	—	ARB24-SR	**40LV78**
	Proportional	95 sec.	24VAC/DC	—	AMB24-SR	**40LV77**
360 in.-lb.	Proportional	150 sec.	24VAC/DC	—	GMB24-SR	**40LV81**
—	On/Off, Floating	90 sec.	24VAC	—	TR24-3	**40LV97**
	On/Off, Floating	90 sec.	24VAC	—	TR24-3-T	**40LV98**
	Proportional	90 sec.	24VAC/DC	—	TR24-SR-T	**42FG32**

Damper Motors

Honeywell

NEMA 3 wiring box provides weather protection, except No. 2E976 has an internal SPDT switch. Controllers sold this page and on page 3026. UL Listed and CSA Certified.

Spring Return	H	W	D	Mfr. Model	Item No.
Electric Actuator, Modutrol Motor					
No	6 7/16"	5 1/2"	7 5/16"	M9184D1021	**1D290**
No	6 7/16"	5 1/2"	7 5/16"	M9164D1009	**4E390**
Yes	6 7/16"	5 1/2"	8 3/4"	M9185D1004	**4E389**
Yes	6 7/16"	5 1/2"	8 3/4"	M8185D1006	**278Y15**
Yes	4 1/2"	4 5/8"	3 3/4"	M436A1116	**2E976**
Electric Actuator, Modutrol IV Motor					
No	6 7/16"	5 1/2"	7 5/16"	M9174D1007	**1RZY8**
No	6 7/16"	5 1/2"	7 5/16"	M6184D1035	**1RZY9**
Modutrol IV Accessories					
Internal Transformer Kit, 120/208/240VAC Input, Converts from Low Voltage to Line Voltage				198162AA	**278Y93**
Internal Transformer Kit, 24/120/240VAC Input, Converts from Low Voltage to Line Voltage				50017460-001	**278Y98**
Internal Auxiliary Switch, Features 1 SPDT Switch with Selectable Differential of 1° to 10° Rotation				220736A	**278Z08**
Internal Auxiliary Dual Switch, Features 2 SPDT Switches with Selectable Differential of 1° to 10° Rotation				220736B	**278Z09**
Super Tradeline Damper Linkage, Internal or External Mount, Contains Ball Joints, Motor Crank Arm and Damper Arm for ½" Diameter Shaft				Q605D1069	**278Y92**
Tradeline Valve Linkage, for Motors and Valves with ¾" Stem Travel and 1 3/8" Bonnet Dia.; 80/160 Pounds Adjustable Stem Force				Q5001D1000	**278Z03**
Tradeline Valve Linkage For High Stem Forces, for Motors and Valves with ¾" Stem Travel and 1 3/8" Bonnet Dia.; 160 or 320 Stem Force				Q5001D1018	**278Z11**
Adapter Plate, Steel Bracket to Adjust Modutrol IV Motors to Match Shaft Height of Modutrol III Motors				220738A	**278Z05**



No. 4E390

Scan. Order. Done.
Details on page A1.

Fluid Flow Switches



Johnson Controls

- SPDT
- 24-230V, except No. 35LZ20 is 4-120V
- Max. fluid temperature: 250°F
- Wetted materials: Viton®

For fluid lines carrying ethylene glycol, water, or other nonhazardous liquids.

Standard Flow—For use with 1" or greater pipe size. No. 35LZ20 is a low-energy switch with gold-plated contacts for improved electrical performance in low-voltage, low-current circuits (dry circuits) to switch low-energy resistive loads, such as control signals.

Low Flow—For use with 1" or smaller pipe size.

Type	Min. Flow Rate (gpm)	Max. Flow (gpm)	Max. Pressure (psi)	Switch Encl.	Connec. Size (in.)	Mfr. Model	Item No.
Std. Flow	2.5	760	290	NEMA 3R	1 MNPT	F261KAH-V01C	35LZ18
				NEMA 4		F261MAL-V01C	35LZ20
						F261MAH-V01C	35LZ21
Low Flow	0.6	17		NEMA 3R	½ FNPT x ½ FNPT	F261KEH-V01C	35LZ12
					¾ FNPT x ¾ FNPT	F261KFH-V01C	35LZ13
						F261KFH-V02C	35LZ14
				NEMA 4	½ FNPT x ½ FNPT	F261MEH-V01C	35LZ15
					¾ FNPT x ¾ FNPT	F261MFH-V01C	35LZ16

Air Flow Switch



Johnson Controls

- SPDT
- Max. air velocity: 2000 fpm
- Max. ambient: 104°F

Detects duct air flow (or absence) by velocity of air movement. Features trimmable 1-pc. stainless steel paddle and range-adjusting screw for field adjustment. Gasket included.

Paddle Size	Full Load Amps @ 115/230V	Min. Actuation Velocity Horizontal	Min. Actuation Velocity Vertical	Mfr. Model	Item No.
2⅛" x 6⅞"	16.0/8.0	500 fpm (> 50 sq. in. duct area)	750 fpm (> 50 sq. in. duct area)	F262KDH-01C	35LY69

ASHCROFT
Dwyer®



No. 2AGD4

Air Pressure Controls

Low-Pressure Transducers—Measure static and differential pressure of clean, dry, noncorrosive gases in HVAC ducts and other applications. Accuracy: 0.8% full scale. 4 to 20mA output. LED power status indicator. Detachable terminal block simplifies wiring. NEMA 1 ABS housing has ¼" barbed male fittings. Proof pressure 15 psi, burst pressure 25 psi. RoHS compliant.

Air Pressure Transmitters—Monitor differential pressure and air velocity. Ranges and units are field selectable. Adjustable display damping. 3/16" I.D. tubing connection. CE Certified.

- Operating temp.: 0° to 150°F
- Power supply: 2-wire, 10 to 35VDC
- 4 to 20mA DC signal output

Pressure Range (in. WC)	Mfr. Model	Item No.
Ashcroft, Low-Pressure Transducers		
0 to 0.1	CX8MB242P1IW	2AGD4
0 to 0.25	CX8MB242P25IW	2AGD5
0 to 0.5	CX8MB242P5IW	2AGD6
0 to 1	CX8MB2421IW	2AGD7
0 to 3	CX8MB2423IW	2AGD8
0 to 5	CX8MB2425IW	2AGD9
0 to 10	CX8MB24210IW	2AGE1
-0.1 to 0 to 0.1	CX8MB242P1IWL	2AGE2
-0.25 to 0 to 0.25	CX8MB242P25IWL	2AGE3
-0.5 to 0 to 0.5	CX8MB242P5IWL	2AGE4
-1 to 0 to 1	CX8MB2421IWL	2AGE5
-2 to 0 to 2	CX8MB2422IWL	2AGE6
-5 to 0 to 5	CX8MB2425IWL	2AGE7
Dwyer Instruments, Air Pressure Transmitters		
0 to 1, 0 to 2, or 0 to 5	MS-111	1AEW1
0 to 0.1, 0 to 0.25, or 0 to 0.5	MS-121	1AEW2

Description	For Use With	Item No.
Accessories		
Ashcroft, Conduit Connection Kit	CX8MB242P1IW, CX8MB242P25IW, CX8MB242P5IW, CX8MB2421IW, CX8MB2423IW, CX8MB2425IW, CX8MB24210IW, CX8MB242P1IWL, CX8MB242P25IWL, CX8MB242P5IWL, CX8MB2421IWL, CX8MB2422IWL, CX8MB2425IWL Transducers	2AGE8
Dwyer Instruments, Display Upgrade Kit	MS-111 and MS-121 Pressure Transducers	1AEW3



No. 35LZ10

Liquid Level Float Switches

Johnson Controls

A change in the liquid level will open or close an electrical circuit, and allows you to maintain the proper liquid level in a closed tank.

Switch Type	Max. Pressure psi	Max. Temp. (°F)	Mfr. Model	Item No.
SPDT	100	250	F263MAC-V01C	35LZ10
SPDT	150	212	F263MAP-V01C	35LZ11



No. 3ZM96



No. 6XPX7



No. 3ZM92



No. 2EJN1

CLEVELAND CONTROLS
Johnson Controls
Columbus Electric®
Robertshaw® SIEMENS

Pressure-Sensing Switches and Probes

PRESSURE-SENSING SWITCHES

- Mount with diaphragm in vertical plane

Sense positive, negative, or differential air pressure. Negative pressure rating same as positive. UL Listed.

HVAC OEM and HVAC General Purpose—For residential, light commercial mid-efficiency furnaces, and direct digital control (DDC) applications. No. 2E462 includes ferrules, one 12" length of ¼" O.D. flexible tubing, and ¼" O.D. tubing nuts.

Gold Contact—For computer environments, direct digital control, or where low-ampere currents are wired.

STATIC AND TOTAL PRESSURE PROBES

Static Pressure—Passive probes sense pressure as air flow aspirates across the probe tip opening.

Total Pressure—Impact probes sense negative or positive pressure, depending on the angle of the probe tip opening.

Type	Switch Type	Pressure Setting Range (in. WC)	Sample Line Connector	Brand	Mfr. Model	Item No.
Pressure-Sensing Switches (Manometer Required to Set Final Pressure)						
HVAC OEM		0.25 to 1.0	Barbed	Cleveland Controls	RSS-495-014	3ZM96
		1.0 to 4.0			RSS-498-015	3ZM97
		0.10 - 10.0	¼ in OD		NS2-0000-05	6XPX7
		0.05	Barbed		DFS-221-112-395	6XPX9
		0.05 to 12.0	Integral Compression		AFS-222-139	3ZM92 *
		0.12 to 5.0	Barbed		RFS-4150	4XB70
		0.15 To 12.0	⅛"- 27 NPT	Johnson Controls	P32AC-1C	40G362
	SPDT	0.05 TO 5.0	⅛ in CC		P32AC-2C	40G363
					P32AC-8C	40G364
			⅛"- 27 NPT		P32AF-1C	40G365
					P32AF-2C	40G366
HVAC/General Purpose		0.05 to 12.0	Integral Compression	Columbus Electric	GRH3AD	2E462
		0.25 to 1.0	Barbed	Robertshaw	2374-495	6XJU0
		1.0 to 4.0			2374-498	6XJU1
		0.05 to 12.0	Integral Compression		2374-499	6XJU2
					2374-500	6XJU3
		0.05	¼ in Slip-On		2374-502	6XJU5
					2374-506	6XJU9
	(2) SPST NC	0.06 to 0.8			2374-507	6XJV0
	SPDT	0.15 +/-, 0.02 to 5.0	Integral Compression		2374-508	6XJV1
					2374-509	6XJV2
Gold Contact		0.05 to 12.0		Cleveland Controls	AFS-405-140	3ZM93 *
		0.05 to 12.0		Robertshaw	2374-503	6XJU6
Manual Reset	SPST	1 to 12.0	¼ in OD	Siemens	141-0575	40PN37
	SPST NC	0.4 to 12.0	Integral Compression	Cleveland Controls	AFS-460-142	3ZM94 *
				Robertshaw	2374-504	6XJU7
Auto Reset	SPDT	0.05 to 1.0	¼ in OD	Siemens	141-0574	2KGR4 *

Insertion Length (in.)	Exterior Length (in.)	Overall Length (in.)	STATIC PRESSURE PROBES Without Metal Barbed Hose Adapter Item No.	STATIC PRESSURE PROBES With Metal Barbed Hose Adapter Item No.	TOTAL PRESSURE PROBES Without Metal Barbed Hose Adapter Item No.	TOTAL PRESSURE PROBES With Metal Barbed Hose Adapter Item No.
Cleveland Controls, Probes, 4 Hole Mounting Flange, 1½" Dia., ¼" Fitting Size						
1½	1¾	3¼	2EJK2	2EJN1	2EJL1	2EJN9
2	1¼	3¼	—	2EJN2	2EJL2	2EJP1
3½	1¾	5¼	2EJK4	2EJN3	2EJL3	2EJP2
4	1¼	5¼	2EJK5	2EJN4	2EJL4	2EJP3
5½	1¾	7¼	—	2EJN5	2EJL5	2EJP4
6	1¼	7¼	2EJK7	2EJN6	2EJL6	2EJP5
7½	1¾	9¼	2EJK8	—	2EJL7	—
8	1¼	9¼	2EJK9	2EJN8	2EJL8	2EJP7

** 2 slip-on tubing adapters and mounting screws included.*

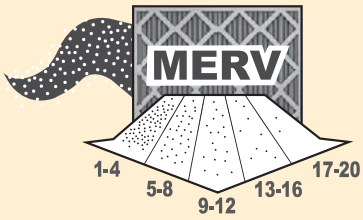
Item	Includes	Mfr. Model	Item No.
Cleveland Controls, Accessories			
Pressure/ Vacuum Generator	Tubing Kit, Batteries, Hand Held Attached Case	PVG-1	49ZZ65
Universal Sensing Probe Kit	Universal 7" Probe, Mounting Flange, Set Screw, 3 Ft ¼ Tubing, Mounting Screws, Slip On Adaptor	60681-396	6XPX8

Find even MORE on Grainger.com®
1-800-GRAINGER (472-4643)

For more sizes, go to Grainger.com® and search pleated air filters

Performance Ratings

Use MERV ratings to select the right filter



What MERV ratings mean

An air filter's minimum efficiency reporting value (MERV) rating measures how effectively the filter stops dust and other contaminants from passing through the filter and into the air stream. Filters with higher MERV ratings trap small particles more effectively than filters with lower MERV ratings.

MERV Rating 1-4	MERV Rating 5-8	MERV Rating 9-12	MERV Rating 13-16	MERV Rating 17-20
Pollen Dust Mites Sanding Dust Textile/Carpet Fibers	Mold/Spores Dust Lint Cement Dust	Legionella Lead Dust Humidifier Dust Coal Dust Nebulizer Dust	Bacteria Tobacco Smoke Auto Fumes Sneeze Nuclei Insecticide Dust Copier Toner Pet Dander Face Powder	Virus Carriers Carbon Dust Sea Salt Combustion Smoke Radon Progeny Odor Microscopic Allergens
Filters Down To 10.0 Micron Particle Size	**Filters Down To 3.0-10.0 Micron Particle Size**	**Filters Down To 1.0-3.0 Micron Particle Size**	**Filters Down To 0.3-1.0 Micron Particle Size**	**Filters Down To <.30 Micron Particle Size**
Application: • Residential Buildings • Window Air-Conditioning Units	**Application:** • Residential Buildings (better performance) • Commercial Buildings • Industrial Workplaces • Paint Booth Inlets	**Application:** • Residential Buildings (superior performance) • Commercial Buildings (better performance) • Hospital Laboratories	**Application:** • Commercial Buildings (superior performance) • General Surgery Rooms • Hospital Inpatient Care Rooms • Smoking Lounges	**Application:** • Pharmaceutical Manufacturing Facilities • Clean Rooms • Orthopedic Surgery Rooms

★AirHandler®

General Purpose Pleated Air Filters

- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Capture airborne contaminants more effectively than nonpleated air filters since the pleated filter media has more surface area for trapping contaminants than nonpleated media.

Go to **grainger.com/autoreorder** to set up an ordering schedule.

Note: We carry MERV 13 air filters on Grainger.com®.

STANDARD-CAPACITY

Improve air quality and keep resistance within reasonable operating limits.

HIGH-CAPACITY

50% more surface area than standard capacity extends service life by 30% to 50%, providing reduced resistance and lower energy and maintenance costs.



Nom. H	Nom. W	Case Qty.	STANDARD-CAPACITY, MERV 7 Item No.	HIGH-CAPACITY, MERV 8 Item No.	HIGH-CAPACITY, MERV 10 Item No.	HIGH-CAPACITY, MERV 11 Item No.
1" Nominal Depth						
8"	16"	12	5W967	6B917	4YUP6	2JWA9 *
8"	30"	12	6B989	6B916	4YUP7	3DVJ4
10"	10"	12	5W968	6B988	4YUP8	2DYP1
10"	20"	12	5W890	6B986	4YUP9	2DYP2
10"	24"	12	5W969	6B984	4YUR1	2DYP3
10"	25"	12	5E998	6B983	4YUR2	2DYP4
10"	30"	12	6U583	6B982	4YUR3	3DVJ5
12"	12"	12	4E505	6B981	4YUR4	2DYP5
12"	16"	12	5E874	6B980	4YUR5	2DYP6
12"	18"	12	6U582	6B979	4YUR6	3DVJ6
12"	20"	12	6C519	6B978	4YUR7	2DYP7
12"	24"	12	4E437	6B976	4YUR8	2DYP8
12"	25"	12	6C520	6B973	4YUR9	2DYP9
12"	30"	12	6U581	6B972	4YUT1	3DVJ7
14"	20"	12	5W891	6B970	4YUT3	2DYR1
14"	24"	12	5W970	6B968	4YUT4	2DYR2
14"	25"	12	5W892	6B967	4YUT5	2DYR3
14"	30"	12	6B998	6B965	4YUT6	3GUX8
15"	20"	12	5W893	6B964	4YUT7	2DYR4
15"	25"	12	5W971	6B962	4YUT8	2DYR5
15"	30"	12	6B997	6B961	4YUT9	3DVJ8
16"	16"	12	5W972	6B959	4YUU2	2DYR6
16"	20"	12	5W509	6B957	4YUU3	2DYR7
16"	24"	12	5W973	6B953	4YUU5	2DYR8
16"	25"	12	5W510	6B951	4YUU6	2DYR9
16"	30"	12	1TBE8	1TBE9	4YUU7	3DVJ9
17"	30"	12	6GKL2	33E894	33E895 *	33E896 *
18"	18"	12	5E875	6B948	4YUU8	2DYT1
18"	20"	12	5W974	6B947	4YUU9	2DYT2
18"	22"	12	5E876	6B946	4YUV1	2DYT3
18"	24"	12	5W975	6B944	4YUV2	2DYT4
18"	25"	12	6C521	6B941	4YUV3	2DYT5
19"	27"	12	6B994	6B939	4YUV4	3DVK1
20"	20"	12	5W511	6B938	4YUV5	2DYT6
20"	22"	12	54FE97	21C095	—	—
20"	24"	12	5W976	6B934	4YUV7	2DYT7
20"	25"	12	5W512	6B931	4YUV8	2DYT8
20"	30"	12	6B992	6B928	4YUV9	2GJA7
22"	22"	12	5E877	6B927	4YUW1	2DYT9
24"	24"	12	5W513	6B925	4YUW3	2DYU1
24"	30"	12	6B990	6B922	4YUW4	3DVK2
25"	25"	12	6C522	6B921	4YUW5	2DYU2

Nom. H	Nom. W	Case Qty.	STANDARD-CAPACITY, MERV 7 Item No.	HIGH-CAPACITY, MERV 8 Item No.	HIGH-CAPACITY, MERV 10 Item No.	HIGH-CAPACITY, MERV 11 Item No.
2" Nominal Depth						
10"	10"	12	5W977	6B987	4YUW6	2DYU3
10"	20"	12	6C514	6B985	4YUW7	2DYU4
12"	20"	12	5E878	6B977	4YUW8	2DYU5
12"	24"	12	2W234	6B975	4YUW9	2DYU6
14"	20"	12	6C515	6B969	4YUX1	2DYU7
14"	25"	12	6C516	6B966	4YUX2	2DYU8
15"	20"	12	6C517	6B963	4YUX3	2DYU9
16"	16"	12	5W978	6B958	4YUX4	2DYV1
16"	20"	12	2W230	6B956	4YUX5	2DYV2
16"	24"	12	5W979	6B952	4YUX6	2DYV3
16"	25"	12	2W231	6B950	4YUX7	2DYV4
18"	18"	12	1TBE5	1TBE7	4YUX8	3DVK3
18"	20"	12	1TBE4	1TBE6	4YUX9	2GHX7
18"	22"	12	5E879	6B945	4YUY1	2DYV5
18"	24"	12	5W514	6B943	4YUY2	2DYV6
18"	25"	12	5E880	6B940	4YUY3	2DYV7
20"	20"	12	2W232	6B937	4YUY4	2DYV8
20"	24"	12	5W515	6B933	4YUY5	2DYD3
20"	25"	12	2W233	6B930	4YUY6	2DYD7
20"	30"	12	2HYD5	2HYD6	4YUY7	2GHZ5
24"	24"	12	2W235	6B924	4YUY8	2DYE2
25"	25"	12	6C518	6B920	4YUY9	2DYE6
4" Nominal Depth						
12"	24"	6	2W238	6B974	4YUZ1	2DYE9
16"	20"	6	5W516	6B955	4YUZ2	2DYF4
16"	25"	6	5W517	6B949	4YUZ3	2DYF8
18"	24"	6	5W518	6B942	4YUZ4	2DYG3
20"	20"	6	2W236	6B936	4YUZ5	2DYG7
20"	24"	6	5C437	6B932	4YUZ6	2DYH2
20"	25"	6	2W237	6B929	4YUZ7	2DYH6
24"	24"	6	2W239	6B923	4YUZ8	2DYJ1
25"	29"	3	5C436	6B919	4YUZ9	2DYJ4
28"	30"	3	5C435	6B918	4YVA1	2DYJ8

** Sold and shipped in case quantity only.*

Scan. Order. Done.
Details on page A1.



Air Handler®
LEED Green-Building-Compliant Pleated Air Filters

- MERV 13
- Standard capacity, except where noted
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Meet the air-filtration efficiency criteria required for earning points toward LEED (Leadership in Energy and Environmental Design) Green Building certification. Slim format allows upgrades from medium-efficiency pleated filtration without investing in new equipment.

Nom. H	Nom. W	Case Qty.	Item No.
1" Nominal Depth			
10"	20"	12	**11C857**
10"	24"	12	**11C858***
10"	25"	12	**11C859***
12"	12"	12	**11C860***
12"	20"	12	**11C861**
12"	24"	12	**11C862**
12"	25"	12	**11C863***
14"	20"	12	**11C864**
14"	24"	12	**11C865**
14"	25"	12	**11C866**
15"	20"	12	**11C867***
15"	25"	12	**11C868***
16"	16"	12	**11C869**
16"	20"	12	**11C870**
16"	24"	12	**11C871**
16"	25"	12	**11C872**
18"	20"	12	**11C873***
18"	24"	12	**11C874**
18"	25"	12	**11C875***
20"	20"	12	**11C876**
20"	24"	12	**11C877***
20"	25"	12	**11C878**
20"	30"	12	**11C879**
24"	24"	12	**11C880**
25"	25"	12	**11C881***

Nom. H	Nom. W	Case Qty.	Item No.
2" Nominal Depth			
10"	20"	12	**2EKH5**
12"	20"	12	**54FF09†**
12"	24"	12	**2EKH6**
14"	20"	12	**2EKH7**
14"	25"	12	**2EKH8**
16"	20"	12	**2EKH9**
16"	24"	12	**2EKJ1**
16"	25"	12	**2EKJ2**
18"	24"	12	**2EKJ3**
18"	25"	12	**2EKJ4**
20"	20"	12	**2EKJ5**
20"	24"	12	**2EKJ6**
20"	25"	12	**2EKJ7**
20"	30"	12	**54FF10**
24"	24"	12	**2EKJ8**
25"	25"	12	**2EKJ9**
4" Nominal Depth			
12"	24"	6	**11C882**
16"	20"	6	**11C883**
16"	25"	6	**11C884**
18"	24"	6	**11C885**
20"	20"	6	**11C886**
20"	24"	6	**11C887**
20"	25"	6	**11C888**
24"	24"	6	**11C889**

** Sold and shipped in case quantity only.*
† High capacity.



Air Handler®
Allergen Reduction Pleated Air Filters

- MERV 12
- Standard capacity
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Electrostatically enhanced to attract even the smallest particles from the air, including microbes, pet dander, mold, and bacteria.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
15"	20"	1"	12	**1MBE4**
16"	20"	1"	12	**1MBE3**
16"	25"	1"	12	**1MBE1**
20"	20"	1"	12	**1MBD9**
20"	25"	1"	12	**1MBE2**
24"	24"	1"	12	**1MBE5**



Air Handler®
High Strength Performance Pleat™ Air Filters

- MERV 8
- High capacity
- Low-resistance synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Extremely strong and durable under difficult operating conditions, including high-moisture applications. Can hold more dust than MERV 8 general use pleated air filters, so they need to be replaced less often. Manufactured with a heavy-duty, galvanized expanded metal support grid and moisture-resistant adhesive.

Nom. H	Nom. W	Case Qty.	Item No.
1" Nominal Depth			
20"	10"	12	**495J14**
20"	16"	12	**495J16**
20"	20"	12	**495J18**
24"	12"	12	**495J15**
24"	24"	12	**495J20**
25"	16"	12	**495J17**
25"	20"	12	**495J19**
2" Nominal Depth			
20"	16"	12	**495J22**
20"	20"	12	**495J25**
24"	12"	12	**495J21**
24"	18"	12	**495J24**
24"	20"	12	**495J26**
24"	24"	12	**495J28**
25"	16"	12	**495J23**
25"	20"	12	**495J27**
4" Nominal Depth			
20"	16"	6	**495J30**
20"	20"	6	**495J33**
24"	12"	6	**495J29**
24"	18"	6	**495J32**
24"	20"	6	**495J35**
24"	24"	6	**495J36**
25"	16"	6	**495J31**
25"	20"	6	**495J34**
29"	25"	6	**495J37**



Air Handler®
High Strength Diamond Pleated Air Filters

- High capacity
- Low-resistance synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Have an internal wire frame that reinforces the filter to prevent it from blowing out in applications where the HVAC system may place increased pressure on the filter due to high velocities or high moisture.

Note: The filter media color may be white or yellow.

Performance Rating	Nom. H	Nom. W	Case Qty.	Item No.
2" Nominal Depth				
MERV 10	12"	20"	12	**3DVN4**
	12"	24"	12	**3GRT2**
	14"	20"	12	**3GRT3**
	14"	25"	12	**3GRT4**
	16"	20"	12	**3GRT5**
	16"	24"	12	**3GRT6**
	16"	25"	12	**3GRT7**
	18"	24"	12	**3GRT8**
	18"	25"	12	**3GRT9**
MERV 11	20"	20"	12	**3GRU1**
MERV 10	20"	24"	12	**3GRU2**
	20"	25"	12	**3GRU3**
	24"	24"	12	**3GRU4**
	25"	25"	12	**3GRU5**
4" Nominal Depth				
MERV 11	12"	24"	6	**54FF04**
	16"	20"	6	**54FF05**
	16"	25"	6	**54FF06**
	20"	25"	6	**54FF07**
	24"	24"	6	**54FF08**

Air Handler® BESTAIR PRO Honeywell Home Honeywell

Furnace Air Cleaner OEM Replacement Filters

- Priced each; shipped in case qty., sold individually in-store only

Available in styles that fit most whole house filter cabinets in residential applications. Meet or exceed the operating efficiency of OEM filters. No. 4E438 requires the original manufacturer's spacers and dividers.



No. 6C529



No. 4E438

Nominal Filter Size	OEM Replacement For	Brand	Pkg. Qty.	Case Qty. (No. of Pkgs. per Case)	Mfr. Model	Item No.
MERV 8						
12x20x5	Honeywell FC100A1052	Air Handler	2	1	36PT14	**36PT14**
16x20x3	Honeywell FC35A1035	Air Handler	2	1	36PR96	**36PR96**
16x20x5	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-8-2	**35NZ32**
	Honeywell F100F1004	Air Handler	2	1	36PR99	**36PR99**
	Honeywell FC100A1029	Air Handler	1	3	2EKL2	**2EKL2**
	Honeywell FC200E1003	Air Handler	2	1	36PT05	**36PT05**
	Honeywell FC200E1003	Air Handler	2	1	36PT16	**36PT16**
16x25x3	Trion Air Bear 255649-101	Air Handler	2	1	36PT11	**36PT11**
	Trion Air Bear 259112-101, 255649-101	Bestair Pro	2	1	AB-31625-8-2	**35NZ30**
16x25x4-1/2	Honeywell CF100A1009	Air Handler	1	3	2EKL3	**2EKL3**
16x25x5	Honeywell CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-8-2	**35NZ33**
	Honeywell CF200A1008	Air Handler	2	1	36PT15	**36PT15**
	Honeywell FC35A1001	Air Handler	2	1	36PT06	**36PT06**
	Trion Air Bear 255649-105, General Mac 4511	Air Handler	2	1	36PT01	**36PT01**
16x27x6	Aprilaire 401	Air Handler	1	3	2EKL5	**2EKL5** *
	Aprilaire 401	Air Handler	2	1	36PT18	**36PT18** *
20x20x5	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-8-2	**35NZ31**
	Honeywell EXPXXFIL0016	Air Handler	2	1	36PT02	**36PT02**
	Honeywell F100A1037	Air Handler	1	3	2EKL4	**2EKL4**
	Honeywell F200A1024	Air Handler	2	1	36PT13	**36PT13**
	Honeywell FC35A1043	Air Handler	2	1	36PT07	**36PT07**
20x25x5	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-8-2	**35NZ34**
	Honeywell FC100A1037	Air Handler	2	1	36PT04	**36PT04**
	Honeywell FC35A1050	Air Handler	2	1	36PT08	**36PT08**
	Trion Air Bear 455602-025	Air Handler	1	3	6C529	**6C529**
	Trion Air Bear 455602-025	Air Handler	2	1	36PT12	**36PT12**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, Braeburn 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-8-2	**35NZ29**
20x25x6	Aprilaire 201	Air Handler	1	1	4E438	**4E438** *
	Aprilaire 201	Air Handler	2	1	36PT09	**36PT09**
	Aprilaire 201	Air Handler	2	1	36PT17	**36PT17** *
MERV 10						
16x25x4	Honeywell 203719, FC35A1001	Honeywell Home	1	5	FC100A1029	**3TPR7**
20x20x5	Honeywell 203721	Honeywell Home	1	5	FC100A1011	**3TMZ6**
MERV 11						
16x20x3	Honeywell FC40R1052	Air Handler	2	1	36PR84	**36PR84**
16x20x5	Honeywell CF200A1620	Air Handler	2	1	36PR92	**36PR92**
	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-11-2	**35NZ42**
	Honeywell FC35A1035	Air Handler	2	1	36PR88	**36PR88**
16x25x3	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-101, 255649-101	Bestair Pro	2	1	AB-31625-11-2	**35NZ37**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-101, 255649-101	Air Handler	2	1	36PR85	**36PR85**
16x25x5	Goodman,Amana,York M11056	Bestair Pro	2	1	G5-1625-11-2	**35NZ49**
	Honeywell CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-11-2	**35NZ44**
	Honeywell CF200A1008	Air Handler	2	1	36PR93	**36PR93**
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell	1	3	POPUP1625	**278Y53**
	Honeywell FC35A1001	Bestair Pro	2	1	NR5-1625-11-2B	**52XR42**
	Trion Airbear 455602-625	Air Handler	2	1	36PR89	**36PR89**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-105, 255649-105	Bestair Pro	2	1	AB-51625-11-2	**35NZ35**
16x27x6	Aprilaire Space Gard, Lennox 401	Bestair Pro	2	1	A401-SG4-BOX-11R	**35NZ40**
	Aprilaire Space Gard 410,413	Bestair Pro	2	1	NRSG411-11-2B	**52XR46**
16x28x4	Aprilaire Space Gard 410,413	Bestair Pro	2	1	SG411-PR-BOX	**35NZ47**
16x28x6	Aprilaire Space Gard, Lennox 401	Honeywell	1	1	POPUP2400	**278Y52**
20x20x3	Carrier GAPCCCAR2020	Air Handler	2	1	36PR86	**36PR86**
20x20x4	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-11-2	**35NZ43**
20x20x5	Goodman, Amana, York M21056	Bestair Pro	2	1	G5-2020-11-2	**35NZ50**
	Honeywell CF200A1024	Air Handler	2	1	36PR94	**36PR94**
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell	1	1	POPUP2020	**278Y54**
	Honeywell FC35A1043	Bestair Pro	2	1	NR5-2020-11-2B	**52XR43**
	Trion Airbear 455602-725	Air Handler	2	1	36PR90	**36PR90**
20x25x3	Trion Airbear 455602-925	Air Handler	2	1	36PR87	**36PR87**
20x25x4	Aprilaire Space Gard, Lennox 210/213	Bestair Pro	2	1	NRSG211-11-2B	**52XR45**
	Honeywell F100F2010, F150E1034, F100B1032, F100F2038	Honeywell Home	1	5	FC100A1037	**3TPR8**
20x25x5	Aprilaire Space Gard, Lennox 210/213	Bestair Pro	2	1	SG211-PR-BOX	**35NZ46**
	Goodman, Amana, York M81056	Bestair Pro	2	1	G5-2025-11-2	**35NZ51**
	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-11-2	**35NZ45**
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell	1	1	POPUP2025	**278Y51**
	Honeywell FC100A1037	Air Handler	2	1	36PR95	**36PR95**
	Honeywell FC35A1050	Bestair Pro	2	1	NR5-2025-11-2B	**52XR44**
	Trion Air Bear 455602-025	Air Handler	2	1	36PT03	**36PT03**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, Braeburn 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-11-2	**35NZ36**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York 455602-525	Air Handler	2	1	36PR91	**36PR91**
20x25x6	Aprilaire 201	Air Handler	2	1	36PT10	**36PT10**
	Aprilaire Space Gard, Lennox 201	Bestair Pro	2	1	A201-SGM-BOX-11R	**35NZ39**
	Aprilaire Space Gard, Lennox 201	Bestair Pro	2	1	SGMPR-2	**35NZ41** *
21x25x6	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell Home	1	1	POPUP2200	**3TPT4**
28x16x6	Aprilaire Space Gard, Lennox 401	Bestair Pro	2	1	SG4PR-2	**35NZ38** *
MERV 13						
16x20x5	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-13-2	**35NZ59**
16x25x5	Honeywell, Lennox CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-13-2	**35NZ61**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-105, 255649-105	Bestair Pro	2	1	AB-51625-13-2	**35NZ52**
20x20x5	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-13-2	**35NZ60**
20x25x4	Lennox HCXF20-10, HCF20-10, HCF20-16	Bestair Pro	2	1	LN2025-13C	**35NZ63**
20x25x5	Carrier EXPXXFIL0020, EXPXXUNV0020, EXPXXFIL0320, EXPXXUNV0320	Bestair Pro	2	1	CB2025-13C	**35NZ55**
	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-13-2	**35NZ62**
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-13-2	**35NZ53**
24x25x5	Carrier EXPXXFIL0324, EXPXXUNV0324, EXPXXFIL0024, EXPXXUNV024	Bestair Pro	2	1	CB2425-13R-2	**35NZ56**
25x16x5	Carrier EXPXXFIL0016, EXPXXUNV0016, EXPXXFIL0316, EXPXXUNV0316	Bestair Pro	2	1	CB1625-13C	**35NZ54**

Refill media only.

For more information on MERV, see page 3047



Air Handler®

Antimicrobial Pleated Air Filters

- MERV 8
- High capacity
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Treated with an antimicrobial agent that prevents mold and mildew from growing on the air filter. Ideal for commercial buildings, healthcare facilities, and locations where moisture is present and mold or mildew may grow on standard filters.

Nom. H	Nom. W	Case Qty.	Item No.
1" Nominal Depth			
8"	16"	12	2EJZ6 *
8"	30"	12	3DVK4
10"	10"	12	2EJZ7
10"	20"	12	2EJZ8
10"	24"	12	2EJZ9
10"	25"	12	2EKA1
10"	30"	12	3DVK5
12"	12"	12	2EKA2
12"	16"	12	2EKA3
12"	18"	12	3DVK6
12"	20"	12	2EKA4
12"	24"	12	2EKA5
12"	25"	12	2EKA6
12"	30"	12	3DVK7
14"	20"	12	2EKA7
14"	24"	12	2EKA8
14"	25"	12	2EKA9
14"	30"	12	3GUY2
15"	20"	12	2EKC1
15"	25"	12	2EKC2
15"	30"	12	3DVK9
15"	31"	12	3DVL1
16"	16"	12	2EKC3
16"	20"	12	2EKC4
16"	23"	12	3GUY3
16"	24"	12	2EKC5
16"	25"	12	2EKC6
16"	30"	12	3DVL2
18"	18"	12	2EKC7
18"	20"	12	2EKC8
18"	22"	12	2EKC9
18"	24"	12	2EKD1
18"	25"	12	2EKD2
19"	27"	12	3DVL3
20"	20"	12	2EKD3
20"	23"	12	3GUY4
20"	24"	12	2EKD4
20"	25"	12	2EKD5
20"	30"	12	2EKD6
22"	22"	12	2EKD7
22"	25"	12	3DVL4
24"	24"	12	2EKD8
24"	30"	12	3DVL5
25"	25"	12	2EKD9

Nom. H	Nom. W	Case Qty.	Item No.
2" Nominal Depth			
10"	10"	12	2EKE1
10"	20"	12	2EKE2
12"	20"	12	2EKE3
12"	24"	12	2EKE4
14"	20"	12	2EKE5
14"	25"	12	2EKE6
15"	20"	12	2EKE7
16"	16"	12	2EKE8
16"	20"	12	2EKE9
16"	24"	12	2EKF1
16"	25"	12	2EKF2
18"	18"	12	3DVL6
18"	20"	12	2EKF5
18"	22"	12	2EKF3
18"	24"	12	2EKF4
18"	25"	12	2EKF6
20"	20"	12	2EKF7
20"	24"	12	2EKF8
20"	25"	12	2EKF9
20"	30"	12	2EKG1
24"	24"	12	2EKG2
25"	25"	12	2EKG3
4" Nominal Depth			
12"	24"	6	2EKG4
16"	20"	6	2EKG5
16"	25"	6	2EKG6
18"	24"	6	2EKG7
20"	20"	6	2EKG8
20"	24"	6	2EKG9
20"	25"	6	2EKH1
24"	24"	6	2EKH2
25"	29"	6	2EKH3
28"	30"	6	2EKH4

** Sold and shipped in case quantity only.*

Air Handler®

Odor Removal Panel Air Filters

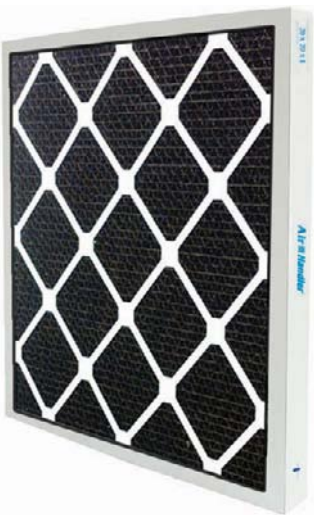
- Moisture-resistant die-cut beverage board frame
- ASHRAE compliant
- Priced each; shipped in case qty., sold individually in-store only

Activated charcoal absorbs unpleasant odors and other gaseous contaminants in the air stream to improve indoor air quality.

For Nuisance Odors, Pleated, Impregnated Carbon—Ideal for removing nuisance odors such as pet smells, tobacco smoke, food odors, and mustiness from the air.

- Carbon concentration: 20 g/sq. ft.

Nom. H	Nom. W	Case Qty.	Item No.
For Nuisance Odors, Pleated, Impregnated Carbon			
1" Nominal Depth			
12"	12"	12	6B912
12"	20"	12	6B911
12"	24"	12	6B910
12"	25"	12	54FE91
14"	24"	12	6B905
14"	25"	12	6B904
15"	20"	12	6B902
16"	16"	12	6B900
16"	20"	12	6B899
16"	25"	12	6B894
18"	24"	12	6B890
18"	25"	12	6B887
20"	20"	12	6B886
20"	25"	12	6B880
22"	22"	12	6B877
24"	24"	12	6B876
2" Nominal Depth			
12"	24"	12	6B909
14"	20"	12	6B906
14"	25"	12	6B903
16"	16"	12	54FE92
16"	20"	12	6B898
16"	24"	12	6B895
16"	25"	12	6B893
18"	24"	12	6B889
20"	20"	12	6B885
20"	24"	12	6B882
20"	25"	12	6B879
24"	24"	12	6B875
4" Nominal Depth			
12"	24"	6	6B908
16"	25"	6	6B892
20"	20"	6	6B884
20"	24"	6	6B881
20"	25"	6	6B878
24"	24"	6	6B874



For VOCs and Exhaust Fumes, Non-Pleated, Active Carbon Honeycomb—Use to trap odors, VOCs (volatile organic compounds, such as fumes given off by paint or cleaning chemicals), exhaust fumes, and other gaseous contaminants. Commonly used in industrial areas to remove unpleasant smells in the air and capture harmful airborne pollutants to improve indoor air quality.

- Carbon concentration: 0.45 g/mL

Nom. H	Nom. W	Case Qty.	Item No.
For VOCs & Exhaust Fumes, Non-Pleated, Active Carbon Honeycomb			
1" Nominal Depth			
10"	10"	4	6B869
12"	24"	4	6W735
14"	25"	4	6B861
16"	16"	4	6B857
16"	20"	4	6W736
16"	24"	4	6B856
16"	25"	4	6W737
20"	20"	4	6W738
20"	25"	4	6W739
24"	24"	4	6W740
2" Nominal Depth			
12"	24"	4	6W741
16"	20"	4	6W742
16"	25"	4	6W743
18"	24"	4	6B852
20"	20"	4	6W744
20"	25"	4	6W745
24"	24"	4	6W746
25"	25"	4	6B846

Air Handler®

Hydrophobic Pleated Air Filters

- MERV 8
- High capacity
- Synthetic media
- Plastic frame with mesh support
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Filters not only remove contaminants from the air, they also remove moisture from the air. Commonly used to filter the air intake in dehumidification and swimming pool equipment.



Nom. H	Nom. W	Nom. D	Item No.
24"	24"	2"	39AM09
24"	24"	4"	39AM08

Air Handler®

High-Temperature Pleated Air Filters

- MERV 8
- Standard capacity
- Synthetic media
- Galvanized steel frame
- Wire-backed design
- Max. temp.: 400°F
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Withstand higher temperatures than other types of pleated air filters. Suitable for air intakes on drying ovens and other high-temperature baking applications.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
12"	24"	2"	12	5M326
16"	20"	2"	12	5M327
16"	25"	2"	12	5M316
20"	20"	2"	12	5M329
20"	25"	2"	12	5M330
24"	24"	2"	12	5M331





No. 491H16



No. 1W097

★AirHandler®
Non-Pleated Panel Air Filters

- Chipboard frame; polyester filters have metal grid on one side
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Tackifier on upstream side improves particulate capture while polyester filters do not shed fibers. All filters are commonly used in furnace and central air systems in residential and commercial buildings where basic filtration is required.

Nom. H	Nom. W	Case Qty.	MERV 4, POLYESTER-COATED FIBERGLASS Item No.	MERV 5, FIBERGLASS Item No.
1" Nominal Depth				
8"	16"	12	491H16	5W499
8"	30"	12	491H28	5W980
10"	10"	12	491H17	5W500
10"	14"	12	491H75	2JBG6
10"	16"	12	491H80	3TPY9
10"	20"	12	491H18	1W304
10"	24"	12	491H29	5C447
10"	25"	12	491H30	5C448
10"	30"	12	491H31	5C449
12"	12"	12	491H32	5W501
12"	16"	12	491H35	5C450
12"	18"	12	491H69	5E891
12"	20"	12	491H19	5C451
12"	24"	12	491H20	5W502
12"	25"	12	491H70	5C452
12"	30"	12	491H36	5W981
12"	31"	12	491H37	5W982
14"	14"	12	491H71	2JBG4
14"	20"	12	491H21	2W015
14"	24"	12	491H38	5C453
14"	25"	12	491H22	2W016
14"	30"	12	491H72	5W983
15"	20"	12	491H23	1W506
15"	25"	12	491H33	5C454
15"	30"	12	491H39	5W984
15"	31"	12	491H40	5W985
16"	16"	12	491H34	5C455
16"	20"	12	—	1W099
16"	23"	12	491H41	5W986
16"	24"	12	491H42	5C456
16"	25"	12	491H25	1W098
16"	26"	12	491H76	6U689
18"	18"	12	491H43	5W987
18"	20"	12	491H44	5C457
18"	24"	12	491H45	5C458
18"	25"	12	491H46	5W503
19"	27"	12	491H47	5C459
20"	16"	12	491H24	—
20"	20"	12	491H26	1W097
20"	23"	12	491H48	5W988
20"	24"	12	491H49	5C460
20"	25"	12	491H27	1W096
20"	29"	12	491H77	6U688
20"	30"	12	491H73	5C461
20"	36"	12	491H78	2JBG5
22"	24¼"	12	—	5W989
22"	22"	12	491H50	5C462
22"	25"	12	491H79	—
24"	24"	12	491H51	5W504
24"	30"	12	491H53	5C463
25"	25"	12	491H52	1W507
2" Nominal Depth				
10"	10"	12	491H54	5C464
10"	20"	12	491H55	5C465
12"	24"	12	491H56	5W505
14"	20"	12	491H57	5C466
14"	25"	12	491H58	5C467
15"	20"	12	491H59	5W506
16"	16"	12	491H74	6U690
16"	20"	12	491H60	1W103
16"	24"	12	491H63	5C468
16"	25"	12	491H61	1W102
18"	24"	12	491H64	5C469
20"	20"	12	491H62	1W101
20"	24"	12	491H65	5C470
20"	25"	12	491H66	1W100
24"	24"	12	491H67	5W507
25"	25"	12	491H68	5W508



★AirHandler®
Washable Electrostatic Air Filters

- MERV 5
- Polypropylene media
- Aluminum frame
- UL Classified

Filters naturally create a static charge as air moves through the filter, and the charge attracts tiny particles such as dust and pet dander. Permanent, fit into existing filter tracks, and have an arrestance rate of 90%.

Nom. H	Nom. W	1" NOM. DEPTH Item No.	2" NOM. DEPTH Item No.
10"	10"	6B709	—
10"	20"	5W997	—
12"	24"	5W999	6B706
14"	20"	6W730	—
14"	25"	6W731	—
16"	16"	6B701	—
16"	20"	5W894	5W898
16"	24"	6B700	6B699
16"	25"	5W895	5W899
20"	20"	5W896	5W900
20"	24"	6B694	6B693
20"	25"	5W897	5W901
24"	24"	6W733	6B691
25"	25"	—	6B690

★AirHandler®
Fan Shroud Air Filters

- MERV 4
- Polyester media

Fit over standard guards on air circulator fans to filter the air before it enters the fan. Also known as circular fan filters, they trap large airborne particles from the air stream to prevent them from building up on the fan blades. Elastic gathering band and hook-and-loop closure.



Fits Fan Guard Dia.	Case Qty.	Item No.
18"	12	36WX63
24" to 26"	12	2TE89
30"	12	2TE90
32"	12	2TE91
36"	12	2TE92
40" to 42"	12	2TE93

Use Auto-Reorder for the Easy Way to Order Filters

Don't run out of the filters you need. Set up an ordering schedule that works for you, and let Auto-Reorder handle the rest. Get email notifications before your order is automatically replaced and adjust or cancel orders anytime.

Get started today at **grainger.com/autoreorder**

★AirHandler®




No. 6B791


No. 6B802

Air Handler® Ring Panel and Link Air Filters

- MERV 8
- Synthetic media
- UL Classified
- Priced each; shipped in case qty.; sold individually in-store only (except where noted)

Consist of layered polyester filter media with a metal wire that is heat-sealed around the inside edges to hold the media open. The filter media wraps around the wire to ensure a positive seal when the filter is installed so that air doesn't bypass the filter. Unlike standard panel air filters they don't require clips or latches to seal them in place. Suitable for high moisture or high air flow applications and commonly used in commercial buildings, schools, universities, and areas where surface finishing is performed.

Nom. H	Section Width	Case Qty.	2-PLY Item No.	3-PLY Item No.
Ring Panel Air Filters				
10"	10"	24	33E907 *	6B833
10"	20"	24	2DXV7 *	6B832
12"	12"	24	—	6B831
12"	16"	24	54FE75	—
12"	20"	24	2DXW1	6B830
12"	24"	24	2DXR7	6B829
14"	20"	24	2DXW4	6B827
14"	25"	24	2DXY7 *	6B825
15"	20"	24	2DXT1 *	6B824
16"	16"	24	2DXT7	6B821
16"	20"	24	2DXU4	6B818
16"	24"	24	2DXV1	6B815
16"	25"	24	2DXV4	6B813
18"	20"	24	33E909	6B811
18"	24"	24	2DXY1	6B810
18"	25"	24	2DXZ1	6B809
20"	20"	24	2DXW7	6B803
20"	24"	24	2DXX4	6B800
20"	25"	24	2DXX7	6B798
22"	22"	24	33E910	6B796
24"	24"	24	2DXY4	6B791
25"	25"	24	2DXZ7	6B784

Nom. H	Section Width	Link Filter Total Length	Number of Sections	Case Qty.	Item No.
Link Air Filters, 2-Ply					
14"	4 3/16"	50"	12	1	54FE74
Link Air Filters, 3-Ply					
12"	24"	576"	24	1	6B828
16"	20"	480"	24	1	6B817
16"	22"	528"	24	1	6B816
16"	25"	600"	24	1	6B812
20"	13"	336"	24	1	6B808
20"	20"	480"	24	1	6B802
20"	22"	528"	24	1	6B801
20"	24"	576"	24	1	6B799
20"	25"	600"	24	1	6B797
24"	16"	384"	24	1	6B794
24"	18"	432"	24	1	6B793
24"	20"	120"	6	6	54FE76
24"	20"	480"	24	1	6B792
24"	24"	576"	24	1	6B790
25"	16"	384"	24	1	6B788
25"	18"	432"	24	1	6B787
25"	22"	528"	24	1	6B785
25"	25"	600"	24	1	6B783

** Sold and shipped in case quantity only.*

Air Handler® Washable Grease Collection Baffle Air Filters

- Self-draining; handles included
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Metal air filters are washable, reusable, and have a metal frame and metal mesh filter media. They're installed in self-draining style commercial kitchen hoods to trap airborne grease before it reaches the exhaust fan, and to prevent grease from accumulating on the fan and the exterior building surface where the fan vents. Permanent filters balance airflow evenly throughout exhaust hoods in commercial kitchen applications and can be used to replace mesh filters in older hoods.


No. 4C882

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Stainless Steel					
16"	20"	2"	1¾"	2	2EJY5
16"	25"	2"	1¾"	2	2EJY6
20"	16"	2"	1¾"	2	2EJY7
20"	20"	2"	1¾"	2	2EJY8
20"	25"	2"	1¾"	2	2EJY9
25"	16"	2"	1¾"	2	2EJZ1
25"	20"	2"	1¾"	2	2EJZ2

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Galvanized Steel					
16"	20"	2"	1¾"	2	4C880
16"	25"	2"	1¾"	2	4C881
20"	16"	2"	1¾"	2	5C107
20"	20"	2"	1¾"	2	4C882
20"	25"	2"	1¾"	2	4C883
25"	16"	2"	1¾"	2	5C108
25"	20"	2"	1¾"	2	5C109

Air Handler® Washable Mesh Air Filters

- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

General use mesh filters have a metal frame, metal mesh filter media, and prevent large airborne particles such as dust, leaves, and pests from entering and damaging HVAC equipment. They can be vacuumed, sprayed, or run through a dishwasher for cleaning and reused. Optional handles attach to filter. Air filters are suitable for use with Carrier, MicroMetl, Trane, York, and other systems.

Aluminum—Rustproof; constructed of multiple layers of corrugated aluminum wire mesh in a heavy-gauge aluminum U-channel frame.

Galvanized Steel—Constructed of multiple layers of expanded corrugated steel mesh and a galvanized steel frame. Not recommended for outdoor applications.


No. 2GGR5


No. 4C410

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Aluminum					
16 in	20 in	1 in	½ in	12	2GGP6
16 in	20 in	1 in	⅞ in	2	2TE94
16 in	25 in	1 in	½ in	12	2GGR1
16 in	25 in	1 in	⅞ in	2	2TE95
20 in	20 in	1 in	½ in	12	2GGR5
20 in	20 in	1 in	⅞ in	2	2TE96
20 in	25 in	1 in	½ in	12	2GGR9
20 in	25 in	1 in	⅞ in	2	2GGT8
24 in	24 in	1 in	½ in	12	2GGT4
24 in	24 in	1 in	⅞ in	2	2GGU3
16 in	20 in	2 in	1 ¾ in	2	2TE97
16 in	25 in	2 in	1 ¾ in	2	2TE98
20 in	20 in	2 in	1 ¾ in	2	2TE99
20 in	25 in	2 in	1 ¾ in	2	2TJ10
24 in	24 in	2 in	1 ¾ in	2	2TJ11

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Galvanized Steel					
20 in	20 in	1 in	⅞ in	12	2GFR6
10 in	20 in	2 in	1 ¾ in	2	4C405
16 in	20 in	2 in	1 ¾ in	2	4C406
16 in	25 in	2 in	1 ¾ in	2	4C407
20 in	20 in	2 in	1 ¾ in	2	4C408
20 in	25 in	2 in	1 ¾ in	2	4C409
24 in	24 in	2 in	1 ¾ in	2	2GFT8
Optional Air Filter Handles					
Metal Air Filter Handles				12	4C410

Air Handler® Washable Range Hood Mesh Air Filters

- Aluminum media and frame
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

These washable and reusable filters install in kitchen range hoods to remove odors and trap grease before it reaches the exhaust fan. This prevents grease from accumulating on the exhaust fan. Suitable for use with microwave range hoods and both ductless and ducted exhaust hoods. Replace OEM filters for popular brands.


No. 6JKA5


No. 6JKC6

For Use With (Systems)	Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Rectangular						
Broan	9"	11"	1"	⅜"	10	6JKC3
Broan, Caloric, Nautilus, Roper, Sears	9"	11"	1"	⅜"	10	6JKA5
Broan, Caloric, Nautilus, Roper, Sears, Tappan	9"	11"	1"	⅜"	10	6JKA7
Broan, NuTone, Whirlpool	12"	12"	1"	⅜"	10	6JKC5
GE Hotpoint	9"	10"	1"	3/32"	10	6JKC1 *
GE Hotpoint, NuTone	11"	12"	1"	⅜"	10	6JKA8
Kitch N Vent, NuTone, Ventrola	9"	12"	1"	⅜"	10	6JKA6
Whirlpool	6"	8"	1"	3/32"	10	6JKC0
Whirlpool	12"	12"	1"	⅜"	10	6JKC4
Round						
Aubrey, Broan, Miami Carey, Nautilus, NuTone	10"	10"	3/32"	3/32"	10	6JKC6
Broan, GE, Nautilus	11"	11"	1"	3/32"	10	6JKA9

** Sold and shipped in case quantity only.*



No. 6B778

★AirHandler®

Cube Air Filters

- MERV 8
- Synthetic media
- UL Classified
- Priced each; shipped in case qty.; sold individually in-store only

These bag-like filters hold more particles than non-pleated panel and ring panel air filters and have layered synthetic filter media that won't deteriorate or warp in wet or humid conditions. Three-ply cube air filters have three layers of blue/white synthetic filter media that are heat-sealed together and are tacky to the touch. Ideal for replacing older cube-style air filters or basket-type filters in HVAC equipment. Filters are good for low-efficiency air filtration in paint booths, mining sites, and other areas with heavy dust or high humidity.

Nom. H	Nom. W	Nom. D	No. of Pockets	Case Qty.	Item No.
12"	24"	10"	1	6	6B782
24"	24"	10"	1	6	6B778
12"	24"	15"	1	6	5W905
20"	24"	15"	1	6	6B780
24"	24"	15"	1	6	5W904
12"	24"	20"	1	6	5W903
24"	24"	20"	1	6	5W902

HVAC Filter Change-Out and Preventative Maintenance Services

Modernize your facility without disrupting your operations by leveraging Grainger's network of qualifed, insured, and licensed service providers.*

Comprehensive services include:

- On-site check in
- Filter change-out
- Update to filter records
- Disposal of used filters

The Grainger Energy Services team serves as your resource to help prolong the life of your heating, ventilation, and air conditioning (HVAC) systems. We serve your facility through our network of qualifed, insured, and licensed service providers. Our providers visually inspect all HVAC equipment, look over electrical and mechanical components for excessive wear or damage, change filters, and check belts and start-up to help ensure your HVAC units are functioning properly and effciently. If there are any problems with your HVAC unit, our providers are skilled in tightening, lubricating, cleaning, draining, adjusting, testing, and measuring. In each case, Grainger will supply high-quality products to help ensure the project is completed on time and on budget.

If you would like more information, or to see if your facility qualifies for an on-site evaluation, call us at 866-597-1330 or contact your Grainger Rep to learn how you can benefit from these preventative maintenance services.

*Provided by third-party service providers. Subject to customer eligibility and agreements.

★AirHandler®

Pocket Air Filters

- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Pocket air filters, also called bag filters, have a bag-like filter element that is stitched into pockets. They trap more particles than nonpleated panel filters and need to be changed less often. Pocket dividers with reinforced media-support backing add to overall strength. Filters are best suited for applications where air is constantly flowing through the filter since they may deposit some captured material back into the air stream when they deflate. 13/16", 24-ga. galvanized steel frame. Often installed in HVAC systems in auto shops, data centers, food and beverage plants, industrial sites, and schools.



No. 6B626

SYNTHETIC MEDIA

Does not shed fibers and suitable for high-humidity applications.

FIBERGLASS MEDIA

Ultrafine fiberglass media specifically designed for each efficiency range.

Nom. H	Nom. W	Nom. D	No. of Pockets	SYNTHETIC Case Qty.	SYNTHETIC Item No.	FIBERGLASS Case Qty.	FIBERGLASS Item No.
MERV 14, Yellow, 90% to 95% Efficiency†							
24"	24"	12"	6	4	2JUW6	4	33E969 *
24"	24"	12"	8	12	2JUV7	—	—
20"	20"	15"	6	4	2JUX3	—	—
24"	12"	15"	3	4	2JUX9	4	2GGX5
24"	12"	15"	4	8	2JUX5	2	3DVP5
24"	20"	15"	6	4	2JUX1	—	—
24"	24"	15"	6	4	2JUX7	4	2JRT7
24"	24"	15"	8	4	2JUW8	—	—
24"	12"	18"	3	2	6B669	2	5E845
24"	24"	18"	6	2	6B642	2	5E841
24"	12"	22"	3	2	6B668	2	5E844
24"	24"	22"	6	2	6B641	2	5E840
24"	24"	22"	8	2	6B628	2	5E839
24"	24"	22"	10	4	2JWA3	4	2DVX1
24"	12"	29"	4	2	6B659	2	5W429
24"	20"	29"	7	2	6B636	—	—
24"	24"	29"	6	2	6B640	2	5E838
24"	24"	29"	8	2	6B627	2	5W427
24"	12"	36"	4	2	6B658	2	5E842
24"	24"	36"	6	2	6B639	2	5W426
24"	24"	36"	8	2	6B626	2	5E836
24"	24"	36"	8	—	—	4	54FF15
MERV 13, Pink, 80% to 85% Efficiency†							
24"	24"	12"	6	4	2JVD2	1	2ACC3
20"	20"	15"	6	4	2JVD8	4	3DVN7 *
24"	12"	15"	3	8	2JVE5	4	2GHC5 *
24"	12"	15"	4	8	2JVE1	8	3DVN8 *
24"	20"	15"	6	4	2JVD6	4	3DVN9 *
24"	24"	15"	6	4	2JVE3	4	2GHR1
24"	24"	15"	8	4	2JVD4	2	3DVP2
24"	12"	18"	3	2	6B673	2	5E850
24"	24"	18"	6	2	6B646	2	5E848
24"	24"	18"	10	4	3XJ73	4	3DVP3
24"	12"	22"	3	2	6B672	8	2GHA6 *
24"	12"	22"	4	2	6B662	2	5W438
24"	24"	22"	6	2	6B645	2	5W434
24"	24"	22"	8	4	6B631	2	5W433
24"	24"	22"	10	4	3XJ75	4	2DVU6 *
20"	24"	29"	7	2	6B637	—	—
24"	12"	29"	4	2	6B661	2	5W436
24"	24"	29"	6	2	6B644	2	5W432
24"	24"	29"	8	4	6B630	2	5W431
24"	12"	36"	3	2	6B670	—	—
24"	24"	36"	6	4	6B643	2	5W430
MERV 11, Orange, 60% to 65% Efficiency†							
24"	24"	12"	6	4	2JVJ3	4	33E970 *
24"	24"	12"	8	4	2JVH4 *	4	33E971 *
24"	12"	18"	3	2	6B677	2	5E858
24"	24"	18"	6	4	6B650	2	5E855
24"	12"	22"	3	8	6B676	2	5W447
24"	12"	22"	4	4	6B665	2	5W446
24"	20"	22"	7	4	6B638	4	3DVN6 *
24"	24"	22"	6	4	6B649	2	5W443
24"	24"	22"	8	4	6B634	2	5W442
20"	24"	29"	7	4	3DVN5 *	2	5E859
24"	12"	29"	4	2	6B664	2	5W445
24"	24"	29"	6	4	6B648	2	5E854
24"	24"	29"	8	2	6B633	2	5W441
MERV 8, White (Synthetic), Yellow/Tan (Fiberglass), 45% to 55% Efficiency†							
24"	12"	10"	3	2	6B680	2	5E865
24"	24"	10"	6	4	2GJG4	2	5E864
24"	24"	12"	6	2	5M410	—	—
20"	20"	14"	5	2	6B657	2	5E863
24"	12"	14"	3	2	6B679	2	5W451
24"	20"	14"	5	2	6B655	—	—
24"	24"	14"	6	2	6B652	2	5W450
20"	25"	15"	5	—	—	2	5E862
20"	20"	21"	5	2	6B656	2	5E861
24"	12"	21"	3	2	6B678	2	5W449
24"	24"	21"	6	2	6B651	2	5W448

*† Average Efficiency (%) ASHRAE 52.1-1992. * Sold and shipped in case quantity only.*

For air filter gasketing, see page 3055 or go to Grainger.com®

Air Handler®

Minipleat Air Filters

- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Rigid frame can withstand difficult operating conditions such as variable air volume, turbulent airflow, and high humidity. They have tightly pleated filter media that traps particles with high efficiency and are commonly installed in HVAC systems in offices, hospitals, museums, electronics manufacturing, and similar settings.

Perf. Rating	Filter Eff.	Nom. H	Nom. W	Case Qty.	Item No.
2" Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65%	10"	10"	6	33E949
		10"	20"	6	33E950
		12"	24"	6	33E952
		16"	16"	6	33E956
		16"	25"	6	33E959
		18"	24"	6	33E961
		18"	25"	6	33E962
		20"	20"	6	33E963
		20"	24"	6	33E964
		24"	24"	6	33E967
MERV 14	95%	10"	10"	6	4YVC9
		10"	20"	6	4YVD1
		12"	24"	6	4YVD3
		16"	16"	6	4YVD7
		16"	20"	6	4YVD8
		16"	25"	6	4YVE1
		18"	24"	6	4YVE3
		18"	25"	6	4YVE4
		20"	20"	6	4YVE5
		20"	24"	6	4YVE6
		20"	25"	6	4YVE7
		24"	24"	6	4YVE9
4" Nom. Depth, Fiberglass Media, Bev. Board Frame, No Header					
MERV 11	60% to 65%	12"	24"	2	6B613
		16"	20"	2	6B612
		18"	24"	2	6B610
		20"	20"	2	6B609
		20"	24"	2	6B608
		20"	25"	2	6B607
		24"	24"	2	6B606
MERV 13	80% to 85%	12"	24"	2	6B605
		16"	20"	2	6B604
		16"	25"	2	6B603
		20"	20"	2	6B601
		20"	24"	2	6B600
		20"	25"	3	6B599
		24"	24"	2	6B598
MERV 14	90% to 95%	12"	24"	2	6B597
		16"	20"	2	6B596
		16"	25"	3	6B595
		20"	20"	2	6B593
		20"	24"	2	6B592
		20"	25"	2	6B591
		24"	24"	2	6B590
4" Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65%	20"	20"	3	2GFW7 *
		20"	24"	3	2GFX2
		24"	24"	3	2GFX6
MERV 13	85%	12"	24"	1	2GFY1 *
		20"	24"	3	2GFY9 *
		24"	24"	3	2GFZ4
MERV 14	95%	12"	24"	3	2GFZ8
		20"	20"	3	2GGA2
		20"	24"	3	2GGA7
		24"	24"	3	2GGC1
4" Nom. Depth, Synthetic Media, Plastic Frame, Single Header					
MERV 11	65%	12"	24"	3	2GFA7
		20"	24"	3	2GFC2 *
		20"	24"	3	2GFC6 *
		24"	24"	3	2GFD1
MERV 13	85%	12"	24"	3	2GFD5
		24"	24"	3	2GFE7
MERV 14	95%	12"	24"	3	2GFF2
		20"	20"	3	2GFF6
		20"	24"	3	2GFG1
		24"	24"	3	2GFG5
6" Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65%	12"	24"	1	33NR95
		20"	20"	1	52RR10
		20"	24"	1	52RR09
		24"	24"	1	33NR94
MERV 14	95%	12"	24"	1	33NR91
		20"	20"	1	52RR06
		20"	24"	1	52RR05
		24"	24"	1	33NR90



No. 4YVE9

Perf. Rating	Filter Eff.	Nom. H	Nom. W	Case Qty.	Item No.
6" Nom. Depth, Synthetic Media, Plastic Frame, Single Header					
MERV 11	65%	12"	24"	1	33NR93
		20"	20"	1	52RR08
		20"	24"	1	52RR07
		24"	24"	1	33NR92
MERV 14	95%	12"	24"	1	33NR89
		20"	20"	1	52RR04
		20"	24"	2	52RR03
		24"	24"	1	33NR88
12" Nom. Depth, Fiberglass Media, Galv. Steel Frame, No Header					
MERV 14	95%	12"	24"	1	20HN67 *
		24"	24"	1	20HN66 *
12" Nom. Depth, Fiberglass Media, Galv. Steel Frame, Single Header					
MERV 14	95%	12"	24"	1	20HN73 *
		24"	24"	1	20HN72 *
12" Nom. Depth, Fiberglass Media, Plastic Frame, No Header					
MERV 14	95%	12"	24"	1	20HN63
		20"	20"	1	20HN64
		20"	24"	1	20HN65
		24"	24"	1	20HN62
12" Nom. Depth, Fiberglass Media, Plastic Frame, Single Header					
MERV 14	95%	12"	24"	1	20HN69
		20"	20"	1	20HN70
		20"	24"	1	20HN71
		24"	24"	1	20HN68

** Sold and shipped in case quantity only.*

Air Handler®

Minipleat Air Filters with Gasket



No. 499J13

- Synthetic media
- Rugged plastic frame
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

Gaskets provide sealing to minimize air bypass and a tightly pleated filter media that traps particles with high efficiency. Filters have a rigid frame that can withstand difficult operating conditions such as variable air volume, turbulent airflow, and high humidity. They are commonly installed in HVAC systems in offices, hospitals, museums, electronics manufacturing, and similar applications.

Nom. H	Nom. W	Case Qty.	GASKET: 2 SIDES Item No.	GASKET: DOWNSTREAM FACE Item No.
2" Nom. Depth, MERV 11, 60% to 65% Efficiency				
12"	24"	6	499J14	499J13
16"	20"	6	499J16	499J15
16"	25"	6	499J18	499J17
20"	20"	6	499J20	499J19
20"	24"	6	499J22	499J21
20"	25"	6	499J24	499J23
24"	24"	6	499J26	499J25
2" Nom. Depth, MERV 13, 80% to 85% Efficiency				
12"	20"	6	499J28	499J27
12"	24"	6	499J30	499J29
16"	20"	6	499J32	499J31
16"	25"	6	499J34	499J33
20"	20"	6	499J36	499J35
20"	24"	6	499J38	499J37
20"	25"	6	499J40	499J39
24"	24"	6	499J42	499J41
2" Nom. Depth, MERV 14, 90% to 95% Efficiency				
12"	24"	6	499J44	499J43
16"	20"	6	499J46	499J45
16"	25"	6	499J48	499J47
20"	20"	6	499J50	499J49
20"	24"	6	499J52	499J51
20"	25"	6	499J54	499J53
24"	24"	6	499J56	499J55

Rigid Cell Air Filters

Air Handler®

- Ultrafine fiberglass or synthetic media, nylon-reinforced on the air-exit side
- Reinforced galvanized-steel frame
- Replace conventional pocket and rigid filters
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

The filters' rigid frame can withstand fluctuations in airflow, making them ideal for variable-volume HVAC systems. Metal grid and media stabilizers maintain pleat configuration. Filters are for use in commercial buildings, schools, hospitals, arenas, and industrial installations.



No. 5W915

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Case Qty.	FIBERGLASS, NO HEADER Item No.	SYNTHETIC, NO HEADER Item No.	FIBERGLASS, SINGLE HEADER Item No.	SYNTHETIC, SINGLE HEADER Item No.
MERV 9	45%	12"	24"	12"	2	2JUH2	2JTY4 *	2GHV1	4YVA2 *
		20"	20"	12"	1	2JUH4	2JTY6	2GHV5	4YVA3
		20"	24"	12"	1	—	2JTY8	2GHV9	4YVA4
		20"	24"	12"	1	—	—	2JUH6	—
		24"	24"	12"	1	2JUH8	2JTZ1	2GHW5	4YVA5
MERV 11	65%	12"	24"	12"	2	5W920	2HYX1	2GHP5	4YVA6
		20"	20"	12"	1	2JUD8	2JTX1	2GHP9	4YVA7
		20"	24"	12"	1	2JUF1	2JTX3	2GHR4	4YVA8
		24"	24"	12"	1	5W919	2HYW9	2GHR8	4YVA9
MERV 13	85%	12"	24"	12"	2	5W918	2HYW8	2GHJ9	4YVC1
		20"	20"	12"	1	2JUC5	2JTV7	2GHK4	4YVC2
		20"	24"	12"	1	2JUC7	2JTV9	2GHK8	4YVC3
		24"	24"	12"	1	5W917	2HYW6	2GHL3	4YVC4
MERV 14	95%	12"	24"	12"	2	5W916	2HYW5	2GHF3	4YVC5
		20"	20"	12"	1	2JUA2	2JTU4	2GHF7	4YVC6
		20"	24"	12"	1	2JUA4	2JTU6	2GHG2	4YVC7
		24"	24"	12"	1	5W915	2HYW7	2GHG6	4YVC8

*† Based on ASHRAE Standard 52.2. * Sold and shipped in case quantity only.*



No. 5W921

Cartridge Air Filters

Air Handler®

- Microfiber media
- Steel frame and 13⁄16" header
- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Rigid frame and aluminum dividers help filters hold their shape under difficult operating conditions, such as variable air volume, turbulent airflow, repeated fan shutdown, high temperatures or humidity, or intermittent exposure to water. For use in health care, food processing plants, pharmaceutical manufacturing, computer equipment rooms, and electronic assembly areas.

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Case Qty.	SINGLE HEADER Item No.	DOUBLE HEADER Item No.
MERV 11	65%	12"	24"	12"	2	5W926	2GGJ3 *
		20"	20"	12"	1	2GGF2	2GGJ7
		20"	24"	12"	1	2GGE6	2GGH8
		24"	24"	12"	1	5W925	2GGH4
MERV 13	85%	12"	24"	12"	2	5W924	2GGT5
		20"	20"	12"	1	2GGN4	2GGU1
		20"	24"	12"	1	2GGL9	2GGT1
		24"	24"	12"	1	5W923	2GGR6
MERV 14	95%	12"	24"	12"	2	5W922	2GGZ8
		20"	20"	12"	1	2GGW7	2GHA3
		20"	24"	12"	1	2GGW3	2GGZ4
		24"	24"	12"	1	5W921	2GGY9

*† Based on ASHRAE Standard 52.2. * Sold and shipped in case quantity only.*

For more information on MERV, see page 3047

★AirHandler® V-Bank Air Filters


No. 4PY71


No. 11Z806

- UL Classified
- Plastic frame
- Operate in 100% relative humidity
- Recommended final resistance: 1.5 WC
- For variable air volume systems
- Fit all commonly used 12"D filter frames and housings; 13/16" header

These filters trap particles with high efficiency and can hold more dust than standard minipleat, cartridge, and rigid cell air filters. The filter installation position, service side, and course of air flow can be in any direction. Filters with 85% Filter Efficiency are used for telecommunication industry ventilation.

2 Vs—Provide efficient filtration, are lightweight and easy to transport.

- Replace pocket and rigid filters
- For normal, hostile, and high humidity environments

3 Vs and 4 Vs, Hospital Grade—Can be used where HEPA filter performance is desired but system limitations do not permit use of high-resistance, low-volume HEPA filters.

- More than 8 times as efficient as a 95% ASHRAE filter

4 Vs, Heavy-Duty Plastic Frame—Additional urethane sealant provides greater strength for high-velocity and high-turbulence applications.

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Air Flow @ 300 fpm	WITHOUT GASKET Item No.	WITH GASKET* Item No.
2 Vs, Fiberglass Media							
MERV 11	65%	12"	24"	12"	600 cfm	4PY75	—
		20"	24"	12"	1000 cfm	4DKY5	—
		24"	24"	12"	1200 cfm	4PY76	—
	75%	12"	24"	12"	600 cfm	—	33E912
		20"	24"	12"	1000 cfm	—	33E913
		24"	24"	12"	1200 cfm	—	33E914
MERV 13	85%	12"	24"	12"	600 cfm	4PY73	33E915
		20"	24"	12"	1000 cfm	4DKY6	33E916
		24"	24"	12"	1200 cfm	4PY74	33E917
MERV 14	95%	12"	24"	12"	600 cfm	4PY71	33E918
		20"	24"	12"	1000 cfm	4DKY4	33E919
		24"	24"	12"	1200 cfm	4PY72	35Z757
3 Vs, Fiberglass Media							
MERV 11	80% to 85%	20"	20"	12"	833 cfm	11Z793	—
MERV 13	85%	20"	20"	12"	833 cfm	—	33E921
MERV 14	90%	20"	20"	12"	833 cfm	11Z798	—
	95%	20"	20"	12"	833 cfm	—	33E925
MERV 15	90% to 95%	20"	20"	12"	833 cfm	11Z804	—
	98%	20"	20"	12"	833 cfm	—	33E929
3 Vs, Fiberglass Media, Hospital Grade							
MERV 16	95%	20"	20"	12"	833 cfm	11Z809	—
		20"	20"	12"	833 cfm	11Z814	—
	95% DOP	20"	20"	12"	833 cfm	33E937	33E933
4 Vs, Fiberglass Media							
MERV 11	75%	12"	24"	12"	600 cfm	—	33E920
		20"	24"	12"	1000 cfm	—	33E922
	80% to 85%	12"	24"	12"	600 cfm	11Z791	—
		20"	24"	12"	1000 cfm	11Z794	—
		24"	24"	12"	1200 cfm	11Z795	—
MERV 13	85%	24"	24"	12"	1200 cfm	53DK14	33E923
MERV 14	90%	12"	24"	12"	600 cfm	11Z796	—
		20"	24"	12"	1000 cfm	11Z799	—
		24"	24"	12"	1200 cfm	11Z801	—
	95%	12"	24"	12"	600 cfm	—	33E924
		16"	24"	12"	—	—	53DK13
		20"	24"	12"	1000 cfm	—	33E926 #
		24"	24"	12"	1200 cfm	—	33E927
MERV 15	90% to 95%	12"	24"	12"	600 cfm	11Z802	—
		20"	24"	12"	1000 cfm	11Z805	—
		24"	24"	12"	1200 cfm	11Z806	—
	98%	12"	24"	12"	600 cfm	—	33E928
		20"	24"	12"	1000 cfm	—	33E930
		24"	24"	12"	1200 cfm	—	33E931
4 Vs, Fiberglass Media, Heavy-Duty Plastic Frame							
MERV 14	95%	24"	24"	12"	1200 cfm	—	48FP87 #
4 Vs, Fiberglass Media, Hospital Grade							
MERV 15	95%	12"	24"	12"	600 cfm	11Z807	—
		12"	24"	12"	600 cfm	11Z812	—
		20"	24"	12"	1000 cfm	11Z810	—
		20"	24"	12"	1000 cfm	11Z815	—
		24"	24"	12"	1200 cfm	11Z811	—
		24"	24"	12"	1200 cfm	11Z816	—
MERV 16	95% DOP	12"	24"	12"	600 cfm	—	33E932
		12"	24"	12"	600 cfm	—	33E936
		20"	24"	12"	1000 cfm	—	33E934
		20"	24"	12"	1000 cfm	—	33E938
		24"	24"	12"	1200 cfm	—	33E935
		24"	24"	12"	1200 cfm	—	33E939
4 Vs, Synthetic Media							
MERV 11	75%	12"	24"	12"	600 cfm	2GHL6	33E940
		20"	24"	12"	1000 cfm	2GHN1	33E941
		24"	24"	12"	1200 cfm	2GHN5	33E942
MERV 13	85%	12"	24"	12"	600 cfm	2GHN9	33E943
		20"	24"	12"	1000 cfm	2GHP4	33E944
		24"	24"	12"	1200 cfm	2GHP8	33E945
MERV 15	98%	12"	24"	12"	600 cfm	2GHL2	33E946
		20"	24"	12"	1000 cfm	2GHK7	33E947
		24"	24"	12"	1200 cfm	2GHK3	33E948

** Downstream face gasket location. # Upstream and downstream gasket location.*
† Based on ASHRAE Standard 52.2-2015.

★AirHandler® Odor Removal Box Air Filters


No. 19RR55


No. 2GGV7

- ASTM compliant

Have a rigid frame and contain active carbon charcoal that absorbs unpleasant odors and other gaseous contaminants in the air stream to improve indoor air quality.

Rigid Cell—Can withstand fluctuations in airflow, making these filters ideal for variable-volume HVAC systems. These vapor phase adsorber filters remove molecular contaminants such as hydrocarbons, formaldehyde, ammonia, acid gases, VOCs (volatile organic compounds, such as paint and cleaning chemical fumes), and ozone from the air stream at low concentration levels. Used to improve indoor air quality in commercial or industrial applications such as museums, archive storage facilities, and semiconductor fabrication facilities.

- Metal frame
- Carbon concentration: 46 g/sq.ft.

V-Bank, 4 Vs—These active carbon charcoal adsorber filters are installed in HVAC systems to remove gaseous contaminants such as sulfur oxide, nitrous oxide, ammonia, amines, diesel fumes, aldehydes, acid gases, VOCs (volatile organic compounds, such as paint and cleaning chemical fumes), and animal odors from the air stream. Used to improve indoor air quality in airports, blueprint facilities, food processing plants, loading docks, museums, office buildings, and research facilities.

- Plastic frame
- Carbon concentration: 0.49 g/mL

Nom. H	Nom. W	Nom. D	Air Filter Header Type	WITHOUT GASKET Item No.
Rigid Cell				
12"	24"	12"	No Header	19RR56
12"	24"	12"	Single Header	19RR58
24"	24"	12"	No Header	19RR55
24"	24"	12"	Single Header	19RR57
V-Bank, 4 Vs				
12"	24"	12"	Single Header	2GGY3
24"	24"	12"	Single Header	2GGV7

★AirHandler® V-Bank Air Filter Gloves


No. 2JTL5

- MERV 2, UL Classified
- 100% polyester media
- Recommended final resistance: 1.5" WC
- Double-stitched corners
- Priced each; shipped in case qty., sold individually in-store only

These filter gloves are a bag-like layer of filter material that slips onto the back of a compatible V-bank filter. Depending on how the filter is mounted, the V-bank glove can serve as a pre-filter or as a final filter.

Filter Efficiency	Nom. H	Nom. W	Nom. D	Media Area	Case Qty.	Item No.
25 %	12 in	24 in	12 in	8 sq ft	12	2JTN2
25 %	12 in	24 in	12 in	8 sq ft	12	2GGW5
25 %	24 in	24 in	12 in	16 sq ft	6	2JTL5
25 %	24 in	24 in	12 in	16 sq ft	12	2GGW1

★AirHandler® Air Filter Gasketing



Chemical-resistant gasketing with adhesive backing creates a compression seal between the filter media and the housing or frame it sits in. This helps prevent dirty air from escaping through the space between the filter media and the frame or housing. Gasketing is commonly used with box air filters.

Actual Width	Actual Thickness	Overall Length	Gasket Color	Item No.
13/16"	1/8"	75 ft.	Black	6C523
13/16"	1/4"	50 ft.	Black	6C524

High Efficiency Particulate Air (HEPA) Filters

HEPA air filters are installed in HVAC systems to remove the maximum amount of contaminants from the air stream for applications that require very clean air. This maximizes indoor air quality and keeps the contaminants from building up in the equipment and damaging it.

They provide more effective filtration than other styles of air filters and have a box construction. Commonly used in areas that require very high levels of contamination control, such as clean rooms, hospitals, pharmaceutical facilities, data centers, laboratories, and food processing plants.

Air Handler®

HEPA Air Filters

- Microglass media
- UL Classified

Dispersed Oil Particulates (DOP) HEPA-Grade, 95.00% Efficient—Capture airborne contaminants more efficiently than standard non-HEPA air filters but are less efficient than other types of HEPA air filters. Urethane sealant provides a positive seal on all four sides of the metal frame to help eliminate potential air leaks. Filters are suitable for applications where HEPA-filtered air is not required. Using the DOP test method, these filters are rated as removing particles as small as 0.30 microns with 95% efficiency.
- Hospital grade

Standard HEPA—Remove between 99.97% and 99.99% of particles as small as 0.30 microns from the air stream. Urethane sealant provides a positive seal on all four sides of the metal frame to help eliminate potential air leaks. Filters are commonly used in hospitals, operating rooms, patient isolation rooms, pharmaceutical processing facilities, and similar locations that must meet strict air cleanliness standards. The air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Hospital grade

HEPA Panel, 99.99% Efficient—For use in pressurized open plenum T-Bar grid systems to remove 99.99% of particles as small as 0.30 microns from the air stream. They are commonly used in pharmaceutical processing facilities, patient isolation rooms, operating rooms, hospitals, and other similar locations that must meet strict air cleanliness standards. Air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Low-pressure drop

HEPA Ducted Terminal Modules, 99.99% Efficient—Designed for use in ducted supply HVAC installations with T-bar grid ceilings and remove a minimum of 99.99% of particles as small as 0.30 microns from the air stream. They are commonly used in hospitals, operating rooms, patient isolation rooms, surgery recovery rooms, biomedical facilities, pharmaceutical processing plants, laboratories, and other locations that must meet strict air cleanliness standards. Air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Low-pressure drop



No. 6B614



No. 2EJY3

Actual H	Actual W	Actual D	Air Flow @ 300 fpm	Frame or Header Material	Gasket Location	Max. Temp.	Item No.
DOP HEPA-Grade, 95.0 % Efficiency							
11 ⅜ in	23 ⅜ in	11 ½ in	554 cfm	Galvanized Steel	Downstream Face	200 °F	**6B623**
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200 °F	**6B622**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200 °F	**6B621**
23 ⅜ in	23 ⅜ in	11 ½ in	1,138 cfm	Galvanized Steel	Downstream Face	200 °F	**6B620**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200 °F	**6B619**
Standard HEPA, 99.97 % Efficiency							
8 in	8 in	5 ⅞ in	133 cfm	Galvanized Steel	Downstream Face	200 °F	**33E972**
11 ⅜ in	23 ⅜ in	11 ½ in	554 cfm	Galvanized Steel	Downstream Face	200 °F	**6B618**
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	None	200 °F	**6B617**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	None	200 °F	**6B616**
23 ⅜ in	23 ⅜ in	11 ½ in	1,138 cfm	Galvanized Steel	Downstream Face	200 °F	**6B615**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200 °F	**6B614**
High Capacity							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200 °F	**2GJC6**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200 °F	**2GHT1**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200 °F	**2GHR3**
Standard HEPA, 99.99 % Efficiency							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200 °F	**2DXN6**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200 °F	**2DXP1**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200 °F	**2DXN8**
High Capacity							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200 °F	**2GHU3**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200 °F	**2GHU7**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200 °F	**2GHR6**
HEPA Panel, 99.99 % Efficiency							
12 in	12 in	2 ⅛ in	300 cfm	Aluminum	Downstream Face	200 °F	**19RR59**
23 ½ in	47 ½ in	2 ⅛ in	2,325 cfm	Aluminum	Downstream Face	140 °F	**2EJY3**
24 in	12 in	2 ⅛ in	600 cfm	Aluminum	Downstream Face	200 °F	**19RR60**
24 in	24 in	2 ⅛ in	1,200 cfm	Aluminum	Downstream Face	200 °F	**19RR61**
24 in	48 in	2 ⅛ in	2,400 cfm	Aluminum	Downstream Face	200 °F	**19RR62**
24 in	12 in	4 ⅛ in	600 cfm	Aluminum	Downstream Face	200 °F	**19RR63**
24 in	24 in	4 ⅛ in	1,200 cfm	Aluminum	Downstream Face	200 °F	**19RR64**
24 in	48 in	4 ⅛ in	2,400 cfm	Aluminum	Downstream Face	200 °F	**19RR65**
HEPA Ducted Terminal Modules, 99.99 % Efficiency							
23 ⅝ in	23 ⅝ in	6 ¾ in	1,163 cfm	Aluminum	Upstream Face	140 °F	**19RR66**
23 ⅝ in	47 ⅝ in	6 ¾ in	2,344 cfm	Aluminum	Upstream Face	140 °F	**2EJY1**
23 ⅝ in	47 ⅝ in	6 ¾ in	2,344 cfm	Aluminum	None	250 °F	**19RR67**



No. 54FE71

Air Handler®

HEPA Air Filter Change-Out Bags

- UL Classified

Fit around used HEPA and ULPA filters to prevent captured contaminants from escaping while the filters are being stored for disposal. These bags have access holes that can be used to position the bag over the filter and have seals that prevent dust and contaminants captured in the spent filter from escaping. Bags are commonly used to contain spent filters in hospitals, patient isolation rooms, and laboratories.

Actual H	Actual W	Actual D	Material	Item No.
70"	⅛"	70"	Plastic	**54FE71**
84"	⅛"	84"	Plastic	**54FE73**
90"	⅛"	90"	Plastic	**54FE72**

Air Handler®

HEPA Air Filter Holding Frames

Hold compatible HEPA filters securely in place in an HVAC system and allow the filters to seal with the mounting surface to help prevent dirty air from bypassing the filter. Holding frames and compatible HEPA filters remove the maximum amount of contaminants from the air stream for applications that require very clean air.

Holding Frames—For OEM or field assembly of built-up HEPA/ULPA filter banks.

Surelock B HEPA Housings—All-welded, side-access housings can accept most gasket-seal HEPA filters. For use in ducts on the downstream side of the air handling unit.



No. 20HN75



No. 20HN76

Description	Nom. H	Nom. W	Nom. D	Frame or Header Material	Item No.
Holding Frame	25"	25"	8"	Galvanized Steel	**20HN74**
Holding Frame	25"	25"	3"	Stainless Steel	**20HN75**
Surelock B HEPA Housing	28"	26"	27"	Galvanized Steel	**20HN76**
Surelock B HEPA Housing	28"	52"	27"	Galvanized Steel	**20HN77**

Air Handler® Air Filter Rolls



No. 2W186

- UL Classified

General use air filter rolls consist of a long length of filter media that can be cut to size. They are most commonly used as pre-filters to extend the life of more expensive final filters.

Polyester, Blue/White—For use where fiberglass filters are not acceptable or fiber break-off is a concern.

Polyester, Orange/White—Alternative for MERV 8 pleated filters and have a nonmigrating, heavy, dry tackifier on the downstream (orange) side.

Fiberglass, Blue/White—Bulk rolls replace hammock-type filters in furnaces and air conditioners. Progressively denser scrim-backed media (air entry to air exit).

Hog Hair, Blue—Replace odd-size furnace filters. Stiff media fibers for rigidity and durability, and self-supporting with no frame required.

Foam, Black—Can replace disposable filters as a prefilter for higher-efficiency electronic or media cartridge filters. Wash or vacuum to clean.

Perf. Rating	Nom. W	Nom. L	Actual Thickness	Surface Tackifier	Item No.
Polyester, Blue/White					
MERV 7	12"	135 ft.	½"	No	2GGC3
	16"	135 ft.	½"	No	4WZ60
	20"	135 ft.	½"	No	4WZ61
	24"	135 ft.	½"	No	4WZ62
	25"	135 ft.	½"	No	4WZ63
	30"	135 ft.	½"	No	4WZ64
	36"	135 ft.	½"	No	4WZ65
	40"	135 ft.	½"	No	2GGC7
	48"	135 ft.	½"	No	4WZ66
	60"	135 ft.	½"	No	2GGD6
	12"	90 ft.	¾"	No	2GGF8
	16"	90 ft.	¾"	No	4WZ67
	20"	90 ft.	¾"	No	4WZ68
	24"	90 ft.	¾"	No	4WZ69
	25"	90 ft.	¾"	No	4WZ70
	30"	90 ft.	¾"	No	4WZ71
	36"	90 ft.	¾"	No	4WZ72
	40"	90 ft.	¾"	No	2GGG3
	48"	90 ft.	¾"	No	4WZ73
	50"	90 ft.	¾"	No	2GGG7
	72"	90 ft.	¾"	No	2GGH6
	84"	90 ft.	¾"	No	2GGJ2
MERV 8	16"	45 ft.	1½"	No	6B776
	20"	45 ft.	1½"	No	5C442
	24"	45 ft.	1½"	No	6B772
	25"	45 ft.	1½"	No	5C443
	30"	45 ft.	1½"	No	6B768
	36"	45 ft.	1½"	No	6B765
	48"	45 ft.	1½"	No	6B762
	60"	45 ft.	1½"	No	2GGN3
Polyester, Orange/White					
MERV 8	16"	90 ft.	¾"	Yes	2JRU8
	20"	90 ft.	¾"	Yes	2JRV3
	25"	90 ft.	¾"	Yes	2JRW2
	30"	90 ft.	¾"	Yes	2JRW6
	36"	90 ft.	¾"	Yes	2JRX1
	48"	90 ft.	¾"	Yes	2JRX7
	60"	90 ft.	¾"	Yes	2JRY4
	48"	90 ft.	1½"	Yes	2JTD3
Fiberglass, Blue/White					
MERV 5	7"	85 ft.	¾"	No	6U602
	8"	85 ft.	¾"	No	6U601
	12"	85 ft.	¾"	No	6U598
	16"	85 ft.	¾"	No	6U596
	24"	20 ft.	¾"	No	5W498
	24"	85 ft.	¾"	No	6U594
	24"	85 ft.	1½"	No	6U593
MERV 7	10"	85 ft.	¾"	No	5C426
	20"	85 ft.	¾"	No	5C427
	25"	85 ft.	¾"	No	5C428
	30"	20 ft.	¾"	No	2W185
	36"	20 ft.	¾"	No	2W186
MERV 8	25"	85 ft.	1½"	No	5C430
Hog Hair, Blue					
MERV 6	20"	15 ft.	1½"	No	5C433
	25"	15 ft.	1½"	No	5C434
	48"	15 ft.	1½"	No	6U586
MERV 7	20"	30 ft.	¾"	No	5C431
	25"	30 ft.	¾"	No	5C432
	48"	30 ft.	¾"	No	6U585
Foam, Black					
Less Than 5 MERV	24"	25 ft.	¼"	No	5W913
	30"	25 ft.	¼"	No	6U592
	48"	25 ft.	¼"	No	2EJZ3
	24"	25 ft.	½"	No	5W914
	36"	25 ft.	½"	No	6U589
	24"	10 ft.	¾"	No	5C444
	48"	25 ft.	¾"	No	2EJZ5
MERV 7	36"	10 ft.	¾"	No	6U591

Air Handler® Air Filter Rolls for Automatic Roll Machines



No. 6B685

- UL Classified
- Cores are not interchangeable
- Type AE: American Air Filter units
- Type AE/CB: American Air Filter and Cambridge units
- Type C: Continental Air Filter units

These ready-to-install air filter rolls consist of a long length of filter media on a solid core that can be installed on automatic filter roll machines. When a filter change is needed, the machine automatically advances the correct amount of filter media to replace the existing media. These rolls are most commonly used as pre-filters to extend the life of more expensive final filters.

Perf. Rating	Nom. W	Nom. L	Nom. Thickness	Media Material	Surface Tackifier	Media Color	Item No.
Type AE							
MERV 5	33"	65 ft.	1"	Polyester	No	White	30PT34
	45"	65 ft.	1"	Polyester	No	White	30PT35
	57"	65 ft.	1"	Polyester	No	White	30PT36
	69"	65 ft.	1"	Polyester	No	White	30PT37
	33"	65 ft.	2"	Fiberglass	Yes	White	30PT31
	57"	65 ft.	2"	Fiberglass	Yes	White	30PT32
	69"	65 ft.	2"	Fiberglass	Yes	White	30PT33
MERV 6	25"	30 ft.	1"	Hog Hair	No	Blue	54FF12
	25"	30 ft.	2"	Synthetic	No	Blue	54FF11
Type AE and Type CB							
MERV 5	33"	65 ft.	2"	Fiberglass	Yes	White	2W633
	57"	65 ft.	2"	Fiberglass	No	White	3W340
MERV 6	33"	65 ft.	1"	Polyester	No	White	6B689
	45"	65 ft.	1"	Polyester	No	White	6B687
	57"	65 ft.	1"	Polyester	No	White	6B685
	69"	65 ft.	1"	Polyester	No	White	6B683
MERV 8	69"	65 ft.	2"	Fiberglass	No	Blue/ White	5C446
Type C							
MERV 5	32"	65 ft.	2"	Fiberglass	Yes	White	2W632
	56"	65 ft.	2"	Fiberglass	No	White	3W339
MERV 6	32"	65 ft.	1"	Polyester	No	White	6B688
	44"	65 ft.	1"	Polyester	No	White	6B686
	56"	65 ft.	1"	Polyester	No	White	6B684
	68"	65 ft.	1"	Polyester	No	Green	6B682
MERV 8	68"	65 ft.	2"	Fiberglass	No	Blue/ White	5C445



No. 5W070



Holding Clip

Air Handler® Air Filter Pad Holding Frames and Clips

Air filter pad holding frames provide support for air filter pads and allow you to just change the filter media in the air filter frame instead of throwing away the entire air filter. Permanent, reusable frames are constructed around a 24-ga. galvanized steel frame. The downstream side is 1" x 1", 16-ga. galvanized welded wire.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
Frames				
10"	10"	1"	4	6B730
12"	12"	1"	4	5W082
12"	24"	1"	4	5W081
14"	25"	1"	4	6B723
16"	16"	1"	4	6B719
16"	20"	1"	4	5W080
16"	25"	1"	4	5W079
18"	18"	1"	4	5W078
20"	20"	1"	4	5W076
20"	24"	1"	4	6B713
20"	25"	1"	4	5W075
22"	22"	1"	4	5W074
24"	24"	1"	4	5W073
25"	25"	1"	4	5W083
14"	20"	2"	4	6B724
16"	20"	2"	4	5W072
16"	24"	2"	4	6B717
16"	25"	2"	4	5W071
18"	24"	2"	4	6B715
20"	20"	2"	4	5W070
20"	24"	2"	4	6B712
20"	25"	2"	4	5W069
24"	24"	2"	4	6B711
24"	24"	3"	8	6B731

Description	Pkg. Qty.	Item No.
Clips, Pigtail		
For 1" Filter with Header, Req. 4 Per Header	12	5E904
For 2" Filter, Req. 2 Per Filter	12	5E905

Air Handler® Air Filter Pads



No. 6B735

- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Pads consist of nonpleated filter media that has been cut to a particular size and can be cut down to a smaller size if needed. Commonly used to replace dirty air conditioner filter pads.

Polyester, Blue/White—Offers higher arrestance and dust-holding than most fiberglass filters; won't shed fibers into the air stream.

Fiberglass, Blue/White—For heavy industrial and oily applications.

Perf. Rating	Nom. W	Nom. L	Nom. Thickness	Surface Tackifier	Case Qty.	Item No.
Polyester, Blue/White						
MERV 7	12"	12"	½"	Yes	24	5W093
	12"	24"	½"	Yes	24	5W092
	16"	20"	½"	Yes	24	5W090
	16"	25"	½"	Yes	24	5W091
	18"	18"	½"	Yes	24	5W089
	18"	24"	½"	Yes	24	5W088
	20"	20"	½"	Yes	24	5W087
	20"	25"	½"	Yes	24	5W086
	22"	22"	½"	Yes	24	5W085
	24"	24"	½"	Yes	24	5W084
	25"	25"	½"	Yes	24	5W094
	10"	10"	1"	Yes	24	6B760
	12"	12"	1"	Yes	24	6B757
	12"	20"	1"	Yes	24	6B756
	12"	24"	1"	Yes	24	6B755
	14"	20"	1"	Yes	24	6B753
	14"	25"	1"	Yes	24	6B751
	16"	16"	1"	Yes	24	6B747
	16"	20"	1"	Yes	24	5W097
	16"	24"	1"	Yes	24	6B746
	16"	25"	1"	Yes	24	5W100
	18"	18"	1"	Yes	24	6B744
	18"	24"	1"	Yes	24	6B742
	20"	20"	1"	Yes	24	5W099
	20"	24"	1"	Yes	24	6B739
	20"	25"	1"	Yes	24	5W098
	22"	22"	1"	Yes	24	6B737
	24"	24"	1"	Yes	24	6B736
	25"	25"	1"	Yes	24	5W096
	12"	24"	2"	Yes	24	6B754
	14"	20"	2"	Yes	24	6B752
	16"	20"	2"	Yes	24	5W101
	16"	24"	2"	Yes	24	6B745
	16"	25"	2"	Yes	24	5W102
	18"	24"	2"	Yes	24	6B741
	20"	20"	2"	Yes	24	5W103
	20"	24"	2"	Yes	24	6B738
	20"	25"	2"	Yes	24	5W104
	24"	24"	2"	Yes	24	6B735
	25"	25"	2"	Yes	24	6B734
Fiberglass, Blue/White						
Less Than 5 MERV	15"	24"	⅜"	No	12	1W633
	10"	10"	1"	No	50	6U639 *
	10"	20"	1"	No	50	6U638
	12"	12"	1"	No	50	6U636
	12"	20"	1"	No	50	6U635 *
	12"	24"	1"	No	50	6U634 *
	14"	20"	1"	No	50	6U632 *
	14"	25"	1"	No	35	6U630 *
	16"	16"	1"	No	50	6U626
	16"	20"	1"	No	24	6U625
	16"	24"	1"	No	50	6U623 *
	16"	25"	1"	No	50	6U621 *
	18"	18"	1"	No	50	6U619 *
	18"	20"	1"	No	50	6U618 *
	18"	24"	1"	No	50	6U617 *
	18"	25"	1"	No	50	6U615 *
	20"	20"	1"	No	24	6U614
	20"	24"	1"	No	50	6U612
	20"	25"	1"	No	24	6U610
	22"	22"	1"	No	50	6U608
	24"	24"	1"	No	24	6U607
	25"	25"	1"	No	50	6U605
	10"	20"	2"	No	50	6U637 *
	12"	24"	2"	No	50	6U633 *
	14"	20"	2"	No	50	6U631 *
	15"	20"	2"	No	50	6U627 *
	16"	20"	2"	No	50	6U624
	16"	25"	2"	No	24	6U620
	20"	20"	2"	No	24	6U613
	20"	24"	2"	No	24	6U611
	20"	25"	2"	No	24	6U609
	24"	24"	2"	No	24	6U606
Carbon, Odor Removal, Black						
MERV 4	25"	25"	¼"	—	12	5W095
Foam, Black						
Less Than 5 MERV	15"	24"	¼"	No	12	1W755
	15"	24"	¼"	No	12	5C439
	48"	72"	½"	No	1	2EJZ4
Aluminum, Silver						
Less Than 5 MERV	15"	24"	¼"	No	12	5C438

** Sold and shipped in case quantity only.*

For additional Spray Booth Filters & Accessories, see page 1624.

Air Handler®

Paint Collection Air Filter Pads and Rolls

- Can be cut to size
- Nos. 2EKK1 and 2EKK2 are priced each; shipped in case qty. of 30, sold individually in-store only

Fiberglass Pads, Nos. 2W001 and 2W002—2¼"-thick media is progressively layered (air- entering to air-leaving) to enhance filter efficiency and service life. Loosely woven construction allows paint to load evenly without face loading.

Paper Pads, Nos. 6W747 and 6W748—6 layers of kraft media, slit and expanded into a mesh with baffle-like surfaces, are progressively layered to collect particulates from larger overspray to smaller droplets.

Paper Pads, Nos. 6W749 and 6W750—The first 3 layers (of a total of 8) employ extremely large baffle openings for maximum particulate-holding capacity. Ideal for use with heavier tacky coatings, conventional coatings, and in situations requiring extended service life.

Paper Pad, No. 6W751—5 layers of expanded kraft media with multistage baffle openings and 1 synthetic layer provide high-efficiency collection and straining, especially with high solids and waterborne coatings.

Air Filter Rolls—Designed for use in all spray booth overspray applications and in high-production situations.



No. 6W747



No. 6B835

Paint Overspray Selection Guide

Coating	Fiberglass Nos. 2W001 & 2W002	Paper Nos. 6W747 & 6W748	Paper Nos. 6W749 & 6W750	Paper No. 6W751
Air-Dry Enamels, Stains, Glazes, Fillers	Good	Excellent	Excellent	Excellent
Lacquers - Nitrocellulose, Sealers	Excellent	Excellent	Good	Good
Epoxies, Urethanes	Poor	Good	Excellent	Excellent
Asphalts, Fiberglass, Gel, Tar-Like, PTFE, Vinyls	Poor	Good	Excellent	Good
Adhesives	Poor	Good	Excellent	Fair
Bake-Dry Enamels, Clear Coats	Good	Good	Excellent	Excellent
Waterbornes	Fair	Good	Good	Excellent
High Solids Enamels	Good	Fair	Fair	Good

All coating types vary within product types due to viscosity, drying speed, etc. This guide is provided as a reference only.

Nom. H	Nom. W	Nominal Thickness	Media Material	Pkg. Qty.	Item No.
Air Filter Pads					
20"	20"	2"	Fiberglass	50	**2W001**
20"	25"	2"	Fiberglass	50	**2W002**
20"	20"	1"	Paper	50	**6W747**
20"	20"	1"	Paper	30	**6W749**
20"	20"	1"	Paper	50	**6W751**
20"	25"	1"	Paper	50	**6W748**
20"	25"	1"	Paper	30	**6W750**
20"	20"	1"	Polyester	1	**2EKK1**
20"	25"	1"	Polyester	1	**2EKK2**

Nom. H	Nom. W	Nominal Thickness	Media Material	Item No.
Air Filter Rolls				
21"	260 ft.	3"	Fiberglass	**6B845**
26"	260 ft.	3"	Fiberglass	**6B844**
30"	260 ft.	3"	Fiberglass	**6C525**
36"	260 ft.	3"	Fiberglass	**6C526**
41"	260 ft.	3"	Fiberglass	**6C527**
48"	260 ft.	3"	Fiberglass	**6C528**
60"	260 ft.	3"	Fiberglass	**6B843**
40"	20 ft.	1"	Paper	**6B836**
40"	30 ft.	1"	Paper	**6B835**
40"	40 ft.	1"	Paper	**6B834**
45"	6 ft.	1"	Paper	**54FF13**
45"	35 ft.	1"	Paper	**54FF14**
21"	90 ft.	1"	Polyester	**2EKK3**
26"	90 ft.	1"	Polyester	**2EKK4**
30"	90 ft.	1"	Polyester	**2EKK5**
36"	90 ft.	1"	Polyester	**2EKK6**
41"	90 ft.	1"	Polyester	**2EKK7**
48"	90 ft.	1"	Polyester	**2EKK8**
60"	90 ft.	1"	Polyester	**2EKK9**

Paint Collector Pad Holding Frame Modules and Accessories

Air Handler®

- Hold up to 2 pads per module
- Priced each; shipped in case qty., sold individually in-store only

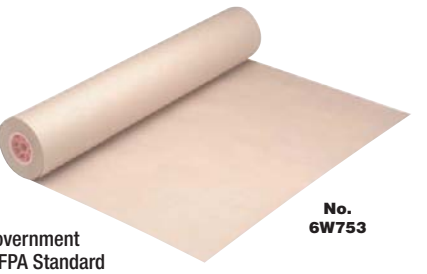
Metal holding frames, grids, and support rods allow proper installation of paint collector pads.



Description	L	W	D	Case Qty.	Item No.
Filter Holding Frame	20"	20"	3"	8	**6B840**
Filter Holding Frame	20"	25"	3"	8	**6B838**
Snap-In Grid	20"	20"	—	16	**6B839**
Snap-In Grid	20"	25"	—	16	**6B837**
Single Wire Rod	20"	—	—	8	**6B842**

Air Handler®

Spray Booth Liner Paper/ Protective Sheeting



No. 6W753

- Meets state and local government requirements for EPA, NFPA Standard 33, OSHA Standard 1910.107
- Cut to desired size for walls and floors

High-grade, fire-retardant kraft paper is ideal for spray booths, welding areas, or potentially flammable operations.

Nom. W	Nom. L	Item No.
36"	300 ft.	**6W753**
42"	300 ft.	**6W754**
60"	300 ft.	**6W755**
72"	300 ft.	**6W756**



Air Handler®

Spray Booth Make-Up Air Ring Panel Air Filters

- UL Classified
- Priced each; shipped in case qty., sold individually in-store only

2-ply synthetic media is heat-sealed inside polyester layers, creating a self-gasketing filter with internal metal wire.

Nom. H	Section W	Nom. Thickness	Case Qty.	Item No.
12"	24"	1"	24	**5W421**
20"	20"	1"	24	**5W422**
20"	25"	1"	24	**5W423**
24"	24"	1"	24	**5W424**
20"	50"	1"	10	**5W425**

Dayton

No. 2HNR8



Ceiling-Mounted Air Cleaners

- 90 to 95% efficiency

Remove tobacco smoke, dust, lint, dirt, bacteria, and other air contaminants. Units feature direct-drive blowers and Auto-Off timer. Filter status indicator helps assure max. efficiency. Use multiple units to accommodate larger areas. Gray powder-coated finish. CSA Certified.

Item	For Use With	Item No.
Replacement Filter		
Bag Filter	2HNR9	**2HNT1**

Description	Air Flow (cfm)	Sound Level dBA	H (in.)	W (in.)	D (in.)	Includes	Item No.
Air Cleaners, 3 Speeds							
2-Stage Media	1800/1400/1000	71	25	25	50 51/64	Pleated Prefilter, Primary Pocket Filter, Hardware & Remote Control	**2HNR8**
	3000/2500/2000	72	32	26	58		**2HNR9**

Dayton

4-Stage with HEPA



Portable Air Purifiers

- Filters included

Prefilter, HEPA filter (removes 99.7% of airborne particles), and carbon filter, plus ionizer to neutralize odors. For rooms up to 860 sq. ft. Dust and odor sensors monitor air quality. Remote control, Auto-Off timer, filter change indicator, and 6-ft. cord. 120V. 5-stage includes germicidal UV lamp. UL Listed.

Description	For Use With	Item No.
Replacement Filters & Bulb		
Prefilter	2HPB1, 2HPB2	**2HPB3**
HEPA	2HPB2	**2HPB4**
HEPA & Carbon	2HPB1	**2HPB5**
Ti02 & Carbon	2HPB2	**2HPB6**
UV Bulb	2HPB1, 2HPB2	**2HPB7**

Description	Air Flow (cfm)	H (in.)	W (in.)	D (in.)	Item No.
Air Cleaners, 3 Speeds					
4-Stage with HEPA	41/68/197	24¾	16 7/16	9½	**2HPB1**
5-Stage with HEPA & UV	41/68/197	24¾	16 7/16	9½	**2HPB2**

dyson

Portable Air Cleaners

- Wifi- and Amazon Alexa-compatible
- 10 speeds
- Auto and sleep modes

Remove 99.97% of pollutants and allergens as small as 0.3 microns. Remote control included.

Description	Air Flow (cfm)	H (in.)	W (in.)	D (in.)	Item No.
HEPA Filtration Fan, Oscillates	845	40 5/64	7 31/64	4 21/64	**451F74**
HEPA Filtration, Fan, & Heater, Oscillates & Tilts	420	24 7/8	6 1/16	4 13/32	**451F75**



No. 451F74



No. 451F75

Find more Air Cleaners on Grainger.com®

Air cleaners help control humidity and keep indoor air clean and free from odors, dust, and bacteria. They are used to purify air in a variety of applications, including homes, resorts, factories, and warehouses.



No. 1RZX7



No. 459W07



No. 52HF52



No. 53XX03

Sun-Pure
Catalytic Air Purification

Portable Air Cleaner

- Filters included

Non-ozone generating. Photocatalytic oxidizing (PCO) technology neutralizes stubborn odors, fumes, and toxic chemicals. UV light kills airborne bacteria, viruses, and mold. 120V, 60/50 Hz. Purifies up to 1000 sq. ft. UL Listed and CSA Certified.



No. 2YGA6

Description	Air Flow (cfm)	H (in.)	W (in.)	D (in.)	Includes	Mfr. Model	Item No.
Air Cleaner, 7 Speeds							
5-Stage Portable	286	18	22	8	HEPA & Activated Carbon Filter, UV Lamps, Titanium Catalyst	SP-20C	**2YGA6**

Description	For Use With	Mfr. Model	Item No.
Replacement Filters/Bulbs			
1 PreFilter and 1 HEPA Filter	2YGA6	1RK001	**2YGC4**
8 W Germicidal UV Lamp	Mfr. No. SP-20C	1RK003	**2YGC5**
Replacement UV Bulb			
25 W Germicidal UV Lamp	2YGA5, 2YGA3	1RK019	**2YGA7**

E. L. Foust Co., Inc.
Portable Air Cleaners

- 120V, (No. 22EW06 is 12VDC)

1-speed models include an activated carbon filter to control chemicals, fumes, gases, and odors.

2-speed models use a carbon filter to remove chemicals while the HEPA filter traps particles as small as 0.3 microns. Rated for up to 1000 sq. ft.



No. 11W126



No. 22EW04

Type	Air Flow (cfm)	No. of Speeds	H (in.)	W (in.)	D (in.)	Includes	Mfr. Model	Item No.
Air Cleaners								
HEPA	160	1	22	10¼	10/1/04	Cartridge with Technostat HEPA Installed	160R2	**11W126**
Desktop	60	1	17	7	7		160DT	**22EW05**
Auto/RV	60	1	8½	16	6		160AN	**22EW06**
Room	380	2	32	13½	13½	HEPA Filter, Carbon Tray, UV Bulb, Pre Filter	400B	**22EW04**
	380	2	32	13½	13½		400SS	**22EW03**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Replacement Cartridge	11W126	R2100STDTPF	**11W127**
Replacement Prefilter		E-1526B	**11W128**
Replacement Cartridge	Mfr. No. 160AN/ DT Air Purifiers	REPCARTANDTGALVSTDTECHNOPF	**22EW11**
Replacement Prefiilter		E1526B	**22EW12**
Pleated Prefilter	Mfr. No. Series 400 Air Purifier	400-2255	**22EW07**
Carbon Media Tray		400-2260	**22EW08**
HEPA Filter, MERV 14		400-2270	**22EW10**
HEPA Air Filter, MERV 16		400-2271	**53JH24**
UV Light Bulb		400-UVLM	**22EW09**

Humidifier/ Air Purifiers

venta AIRWASHER Das Original

- 120V, 8W
- 6-ft. cord
- NEMA plug 1-15p

Cold evaporation helps to humidify and purify indoor air simultaneously. Require no cartridge filters or pads to replace.

No. 39C391



H	W	D	Max. Sq. Ft. Cap.	Water Reservoir	No. of Speeds	Color	Mfr. Model	Item No.
Humidifier/Air Purifiers								
12"	10"	10¾"	200	1.4 gal.	2	Charcoal Gray	LW15G	**39C387**
12"	10"	10¾"	200	1.4 gal.	2	White	LW15W	**39C388**
13"	11½"	11½"	400	2 gal.	3	Charcoal Gray	LW25G	**39C389**
13"	11½"	11½"	400	2 gal.	3	White	LW25W	**39C390**
13"	17"	11½"	800	3 gal.	3	Charcoal Gray	LW45G	**39C391**
13"	17"	11½"	800	3 gal.	3	White	LW45W	**39C392**
Accessories								
Venta Cleaner, for Venta Humidifiers/Purifiers							CLEANER	**39C394**
Venta Water Treatment Additive, for Venta Humidifiers/Purifiers							WTA	**39C393**

Scan. Order. Done.
Details on page A1.


No. 4AYF5


No. 56GX66

Portable Air Scrubbers

DRI-EAZ BlueDri

- Variable speed

DRI-EAZ®—Rugged, stackable units provide high-efficiency air filtration for restoration, construction projects, and health-care facilities. Remove particulates including smoke, dust, and airborne viral contamination. Up to 3 units can be daisy-chained. Optional filter No. 4AYG2 removes odors. AHAM-certified performance. UL and C-UL Listed.

BlueDri®—Professional-grade air scrubbers remove dust, pollen, mold, and tiny airborne particles that can appear in the air after a fire, flood, or simply in moist and humid environments. 3 stages of filtration. ETL and C-ETL Listed.

Air Flow (cfm)	Overall Dimensions - H x W x D	Includes	Color	Brand	Mfr. Model	Item No.
Air Scrubbers						
250 to 500	24½" x 26¼" x 18¼"	PreFilter and HEPA Filter	Blue	Dri-Eaz	F284	**4AYF5**
	14" x 25" x 20"	HEPA Filter	Blue	BlueDri	BD-AS-550-BL	**56GX66**
	14" x 25" x 20"	HEPA Filter	Green	BlueDri	BD-AS-550-GN	**56GY10**
	14" x 25" x 20"	HEPA Filter	Red	BlueDri	BD-AS-550-RD	**56GY11**

Description	For Use With	Mfr. Model	Item No.
DRI-EAZ Replacement Filters			
2nd Stage Prefilters	Mfr. No. F284	F271	**4AYF9**
HEPA 500 Filters	Mfr. No. F284	F321	**4AYG1**
Activated Carbon Filters	Mfr. No. F284	F397	**4AYG2**
DOP Stage 2 Prefilter	Mfr. No. F284	F415	**39C363**

Industrial Fume and Smoke Exhausters

Dayton

Units feature steel frame, steel impeller in fiberglass housing, and intake screen. TEFC, 3450 rpm, continuous-duty, ball bearing motors. Include 9-ft. wire-reinforced PVC inlet hose and clamps, 90° sheet metal exhaust elbow, and 8-ft. power cord. 1-phase models have lockable rocker power switch and a 3-prong plug. 3-phase model has a push-button motor starter and no plug.


No. 3AA20

HP	Voltage	Phase	Amps AC	Max. CFM @ 0 S.P.	Inlet Hose I.D. (in.)	Outlet Hose I.D. (in.)	dBA @ 5 ft.	Max. Fume Temp. (°F)	Item No.
Motor				Blower					
¾	115/230	1	7.5	600	4	5	79	180	**3AA20**
1½	115/230	1	16.0	1100	5	6	86	180	**3AA22**
1½	230/460	3	4.2	1100	5	6	84	180	**3AA23**

DRI-EAZ

Flood Extractor

- HEPA filtered exhaust air

Easy-to-transport extractor lets you quickly remove water from flooded structures. Faster and more thorough water extraction means less drying time and less risk of disruption. Features a high-volume, clog-resistant pump and an easy-to-clean filter.



Wet Capacity	H	W	L	Voltage	Includes	Mfr. Model	Item No.
12 gal.	40¼"	22½"	24⅞"	115	25 ft. Section of 2" Vacuum Hose with Cuffs	F479	**39C364**


No. 4GJP8


No. 2YFU4


No. 2YFV5


No. 11Y603


No. 2DBV6


No. 35ZX06

Fume and Dust Collectors

EXTRACT-ALL

- Filters not included with all models; select primary filter pkg. based on application needs

Multistage filtration removes smoke, dust, odors, solvent fumes, and lab fumes in a variety of small- to medium-size industrial applications. Housing has durable polyurethane powder-coated finish. Optional acrylic capture hoods (sold separately) provide backdraft source capture. Additional replacement filters are available; search Grainger.com® for the Grainger Item No. and click Optional Accessories.

For additional fume and dust collectors, see pages 2408 and 2363.

Description	Mount	Air Flow (cfm)	No. of Speeds	Sound Level dBA	H (in.)	W (in.)	D (in.)	Color	Includes	Mfr. Model	Item No.
Fume Extractors											
Portable Fume Extractor, For Airborne Contaminants	Casters	100 to 350	Variable	64 @ 6 ft.	42½	18	12¾	White	Two 3"-Dia. Extractor Arms	SP-981-2B	**4GJP8**
Bench-Top Fume Extractor, For Airborne Contaminants	Bench	100 to 350	Variable	68 @ 6 ft.	10	12	7	White	2 Extractor Arms, Inlet Cap, Mounting Brackets	S-981-2B	**2YFU4**
Portable Ductless Clean Air Station/Spray Booth, For Airborne Contaminants	Bench	160 to 375	1	55 @ 5 ft.	24	24	14	White	Removable Hinged Grille & 2-Ply Ring Panel Prefilter	S-984-1	**2YFV5**
Air Cleaners											
Portable Smoke, Dust & Weld Fume Collector, For Smoke, Dust, Odors	Portable	1000	1	74	44½	25½	32½	Black	Filter, Cleaning Mechanism, 6" Extractor Arm	SC-1000	**35ZX01**
Downdraft Table Air Cleaning & Dust Collection System, For Smoke, Dust, Fumes, Contaminants	Portable	1250	1	72	78	33	25	Black	Removable Side & Back Shields, Self-Cleaning Filter, Filter Gauge	SCDD-1250	**35ZX04**
	Portable	3450	1	76	32	55	36	Black	Removable Side & Back Shields, Self-Cleaning Filter, Filter Gauge	SCDD-3450	**35ZX05**
Portable Downdraft Air Cleaning System, For Smoke, Dust, Fumes, Contaminants	Casters	400	1	70	36	20	20	Black	Back & Side Shields, 3-Stage Filter	SP-400-DD	**11Y603**
Portable Air Cleaning System, For Smoke, Dust, Fumes, Contaminants	Portable	800	1	73	36	20	20	Black	6" Dia. Extractor Arm, 3-Stage Filter	SP-800	**35ZW98**
Portable Ambient Room Air Cleaning System, For Dust & Fumes	Portable	800	1	73	46	20	20	Black	Ambient Inlet Cover, 3-Stage Filter	SP-800-AMB	**35ZX02**
Portable Downdraft Air Cleaning System, For Smoke, Dust, Fumes, Contaminants	Portable	800	1	73	36	20	20	Black	Ambient Inlet Cover, 3-Stage Filter	SP-800-DD	**35ZX03**
Portable Downdraft Air Cleaning System, Dual Arm, For Smoke, Dust, Fumes, Contaminants	Portable	800	1	73	36	20	20	Black	Two 4" Dia. Extractor Arm, 3-Stage Filter	SP-800-DA	**35ZW99**
Compact Air Cleaning System, For Smoke, Dust, Odors	Multiple	100 to 350	Variable	66 @ 6 ft.	12½	19½	12½	Black	Cover with 2 Extractor Arms, 1 Inlet Cap, Clean Air Exhaust Deflector, 2-Ply Ring Panel Prefilter, Filter Hold Down Grid	S-987-2A	**2DBV6**
Dust Collector											
Air Cleaning & Dust Collection System, For Smoke, Dust, Fumes, Contaminants	Casters or Wall	1000	1	72	72½	18.5	18.5	Black	Self-Cleaning Filter, Slide Gate, Floor Stand, Wall Mount Bracket	DC-1000	**35ZX06**

Description	For Use With	Mfr. Model	Item No.
Primary Filters			
Air Cleaner Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-1	**2YFU5**
Carbon Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-2A	**2YFU6**
Cell Carbon Filter	Mfr. No. S-984-1	F-984-2A	**2YFV9**
Cell Filter	Mfr. No. S-987-2A	F-987-1	**2DBV9**
	Mfr. No. S-984-1	F-984-1	**2YFV8**
HEPA Carbon Filter	Mfr. No. S-987-2A	F-987-4A	**2DBW3**
	Mfr. No. S-984-1	F-984-4A	**2YFW2**
HEPA Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-4A	**2YFU8**
	Mfr. No. S-984-1	F-984-3	**2YFW1**
	Mfr. No. S-981-2B, SP-981-2B	F-981-3	**2YFU7**

Description	For Use With	Mfr. Model	Item No.
Replacement Filters			
Air Cleaner Filter	Mfr. No. S-981-2B	RF-981-1	**2YFU9**
Aluminum Mesh	Mfr. No. E-1400G	RF-14-1	**4GJR8**
Carbon Filter	Mfr. No. SP-400, SP-400-DD	RF-400-3	**11G219**
Final Pleated Filter	Mfr. No. F-987-5A	RF-987-6	**2DBW8**
Mini Pleat Filter	Mfr. No. SP-400, SP-400-DD, SP-800	RF-400-2	**11G218**
Pleated Filter	Mfr. No.F-984-5A	RF-984-6	**2YFW8**
	Mfr. No. SP-400, SP-400-DD, SP-800	RF-400-1	**11G217**

Description	For Use With	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Accessories						
Capture Hood, Clear Acrylic	2YFV5	24	30	9	E-984-2	**4GJT6**
Capture Hood, Clear Acrylic with Magnetic Strips	2YFV5	24	36	9	E-984-3	**2YFV7**


No. 2HPD4


No. 2KXN9


No. 2HPC3


No. 2HPB8


No. 2HPE1

Description	For Use With	Item No.
Replacement Filters/Bulbs		
HEPA	2HPC3	**2HPD3**
	2HPE1	**2KXN8**
HEPA and Carbon	2HPB8, 2HPB9	**2HPC2**
	2HPD4	**2HPD7**
HEPA, Carbon, and Photocatalyst	2HPD5	**2HPD9**
Prefilter	2HPB8, 2HPB9	**2HPC1**
	2HPD4, 2HPD5	**2HPD6**
	2HPE1	**2HPE2**
Prefilter, HEPA and Carbon	2HPC3	**2HPD2**
Ti02	2KXN9	**2KXP2**
Ti02 and Carbon	2HPE1	**2HPE3**
	2HPC4	**2HPC9**
UV Bulb	2KXN9	**2KXP1**
	2HPC4	**2HPC8**
	2HPE1	**2KXN7**
	2HPD5	**2HPD8**

Portable Air Cleaners

- Filters included
- 120V, 60 Hz

Replacement Filters/Bulbs—Prefilters remove large particles, HEPA filters remove particulates, and activated carbon filters remove odors. UV lights neutralize bacteria, viruses, and other microorganisms. Photocatalytic oxidation (PCO) filters employ UV lights plus titanium dioxide (TiO™) media to destroy bacteria, molds, and viruses.

Description	Air Flow (cfm)	No. of Speeds	H (in.)	W (in.)	D (in.)	Color	Includes	Item No.
Air Cleaners								
Single-Stage with HEPA		3	10	11 13/16	7 1/16	Gray	Auto Shutoff Timer	**2HPD4**
Single-Stage with UV	1.25	2	9 9/16	3 1/2	3 1/8	Gray	Plug-in Transformer 120VAC:12VDC	**2KXN9**
2-Stage with HEPA	36/65/80	3	26 3/4	10 1/4	10 1/4	Gray	Prefilter, HEPA Filter, Active Carbon Filter, Remote Control	**2HPC3**
3-Stage with HEPA	27/49/78	3	12 1/2	17 3/4	8 1/2	Gray	Remote Control, Auto Shutoff Timer	**2HPB9**
4-Stage with HEPA	27/49/78	3	12 1/2	17 3/4	8 1/2	Gray	Remote Control, Auto Shutoff Timer	**2HPB8**
5-Stage with HEPA and UV	36/47/57	3	14 3/16	6 3/16	8 1/2	Gray	Auto Shutoff Timer	**2HPE1**


No. 2PYG2


No. 2PYF5


No. 2PYE9


No. 5KEF3


No. 20HN61

AIRCARE BestAir

Mobile Humidifiers

Units feature auto humidistats (except No. 4NHG1) to maintain optimum humidity. 5- to 6-ft. cords, quiet nighttime settings, Auto-Off, and refill light (except Nos. 2PYG2, 2PYE9, and 4NHG1). All units are ETL Listed.

Ultrasonic No. 53YP63—Features an aroma diffuser tray for scented essential oils, No. 53YP64 sold separately. Model has a 360° nozzle for directional misting and an LED night light with 7 selectable colors.


No. 33TN59


No. 48TC61


No. 53YP63



No. 21EX24

Max. Square Ft. Cap	Max. Runtime	Water Reservoir	No. of Speeds	Color	Type	Mfr. Model	Item No.
AIRCARE® Humidifiers							
800	50 hr.	1.2 gal.	2	White	Tabletop	E35 000	**2PYG2**
1200	50 hr.	2 gal.	4	Black/Titanium	Tower Style	D46 720	**2PYF5**
1000	70 hr.	2 gal.	4	White/Blue	Tabletop	7D6 100	**2PYE9**
2600	36 hr.	2.5 gal.	3	White	Mini Console	MA0800	**5KEF3**
1250	90 hr.	3 gal.	4	White	Mini Console	5D6 700	**4NHG1**
2400	60 hr.	3.5 gal.	9	Espresso	Pedestal Style	EP9800	**36WJ85**
2400	45 hr.	3.5 gal.	9	Gray/Black	Console	EA1201	**20HN61**
2400	60 hr.	3.5 gal.	9	Nutmeg	Pedestal Style	EP9 500	**6DMH8**
4000	55 hr.	5 gal.	3	Brushed Nickel	Console	HD1409	**36WJ84**
3700	45 hr.	5.4 gal.	4	Light Oak/Black Trim	Console	H12 300HB	**44R223**
3700	45 hr.	5.4 gal.	4	Oak Burl	Console	H12 400HB	**44R219**
3600	45 hr.	5.6 gal.	9	Light Oak	Credenza Style	696400HB	**35XG45**
3600	48 hr.	5.7 gal.	9	Brushed Nickel/Black	Console	4DTS 900	**33TN59**
2700	70 hr.	6 gal.	3	White	Space Saver Style	831000	**48TC61**
AIRCARE® Ultrasonic Humidifier							
750	24 hr.	1 gal.	Variable	White	Portable	AUV20AWHT	**53YP63**

Description	For Use With	Mfr. Model	Item No.
AIRCARE® Accessories			
Air Care Filter	AIRCARE/Essick Air models 427 300,447 400HB,4D7-series,4DTS 300-series,696-series,and 697-series	1051	**2PYG7**
Evaporative Filter Wick	AIRCARE/Essick Air models 427 300,447 400HB,4D7-series,4DTS-series,696-series,697-series.ED11-series	1041	**2PYG4**
Evaporative Filter Wick	AIRCARE/Essick Air models EP9-series;EP9R-series;821000,831000,826000,SS390DWHT.	1043	**2PYG5**
Evaporative Filter Wick	AIRCARE/Essick Air models H12 300,H12 300HB,H12 400,H12 400HB, H12 600	1045	**2PYG6**
Evaporative Filter Wick, Qty. 2	Mfr. No. 7D6 100, D46 720, E35 000, 3D6 100, 5D6 700, E27 000,CM330 Series(Digital and Analog)	1040	**2PYG3**
Humidifier Wick	5KEF3	MAF2	**36WJ83**
Humidifier Wick, Qty. 3	20HN61	HDC311	**36WJ87**
AIRCARE® Ultrasonic Accessories			
Demineralization Cartridge, Qty. 3	AURORA SERIES Mfr. No. AUV20AWHT,AUV10AWHT	AU5003PK	**53YP65**
Essential Oils, Eucalyptus, Vanilla, & Lavender; Qty. 3	Humidifier or Aroma Therapy	EOVEL103PK	**53YP64**

Description	Brand	Mfr. Model	Item No.
Chemicals and Cleaners			
Mineral & Scale Cleaner, 32 oz.	Bestair Pro	1C	**21EX24**
Water Treatment & Bacterio-Static, 32 oz.	Best Air	00245	**5W009**

fantech

Industrial/Commercial Dehumidifier

- Ambient temp. range: 40° to 95°F
- 20-ft. drain hose
- Washable air filter

For areas with extreme moisture problems. Features 2-speed fan, humidistat, overflow protection with indicator light, and painted steel cabinet with fold-down handle and 4 casters. CSA Certified for U.S. and Canada.



Cap./24 Hrs. @ 60% RH	Cap./24 Hrs. @ 90% RH	Bucket Capacity	Amps	H	W	D	Mfr. Model	Item No.
60 pt.	101 pt.	21 pt.	5	20⅞"	17⅛"	13½"	GD55S	**3H356**



No. 53RJ37



No. 55FJ94

Dayton

FRIEDRICH

Office/Residential Dehumidifiers

- Automatic defrost
- 2-speed fan

ENERGY STAR qualified.

Dayton®—Compact residential dehumidifiers feature a built-in water level indicator, removable slide-out filter, and full-bucket indicator light. Also include garden hose hook-up adapter.

Friedrich—Versatile and portable dehumidifier features top-mount digital touch controls, non-louvered front panel for a clean, stylish appearance, and built-in casters for mobility. It has 3 drainage options including removable condensate bucket with carry handle, continuous gravity drainage hook up, and built-in drain pump that can pump condensation vertically or horizontally up to 15 ft. Also features precise adjustable humidity control from 30% to 90%, auto restart, and a 24-hr. timer.

80°F, 60% Humidity	Area - Square Feet Capacity - Pints Per 24 Hours For Air Conditioned Spaces						
	500	1000	1500	2000	2500	3000	3500
Moderately Damp	10	14	18	22	26	30	34
Very Damp	12	17	22	27	32	37	42
Wet	14	20	26	32	38	44	50
Extremely Wet	16	23	30	37	44	51	58

Cap./24 Hrs. @ 60% RH	Bucket Cap.	Ambient Temp. Range	Amps	H	W	D	Brand	Item No.
22 pt.	6.3 pt.	41° to 90°F	3.7	20⅛"	14¼"	10"	Dayton	**55EL04**
50 pt.	12.7 pt.	41 to 95°F	4.7	24⅞₂"	12⁹⁄₃₂"	16³⁹⁄₆₄"	Dayton	**53RJ37**
	12.7 pt.	41° to 90°F	7.8	23¼"	15⅜"	10¾"	Dayton	**55EL06**
	16.2 pt.	41° to 90°F	8.2	23½"	15"	12"	Friedrich	**55FJ94**

GRAINGER MOBILE

Use your smartphone to connect with Grainger on the go. Now you can find products, get real-time product availability, place an order and locate the nearest branch from the palm of your hand. Anytime, anywhere.

> Download at **grainger.com/content/mobile-features**





No. 30KE39



No. 4AYF4



No. 2MRV1

DRI-EAZ

fantech

Jobsite/Restoration Dehumidifiers

No. 39C366



For use in conditions of flooding and areas of excess moisture. Rotomolded housing. Compact model easily fits into a crawl space, is portable and stackable making it ideal for restorative drying applications. Low-grain models are more energy efficient. Air is precooled before reaching evaporator coil for faster condensation, resulting in drier air.

Dri-Eaz—Designed for optimal performance and feature a multifunction 4-language digital control panel, condensate pump, 40-ft. drain hose, 25-ft. power cord, and lifetime manufacturer's warranty on housing. Nos. 30KE39, 39C366, and 6UFY3 have built-in humidistat. ETL Listed to UL and CSA standards.

- Ambient temp. range: 33° to 100°F (No. 30KE39 is 45° to 100°F; No. 39C365 is 33° to 125°F)

Fantech—Models have an automatic defrost with mode indication and on-demand condensate pump purge with 30-ft. drain hose. Units have dual handles, 11" wheels, and external hose storage. CSA Certified for U.S. and Canada.

- Ambient temp. range: 40° to 95°F

Capacity/24 Hrs. @ 60% RH	Capacity/24 Hrs. @ 90% RH	Amps	H	W	D	Brand	Mfr. Model	Item No.
Compact Dehumidifier								
80 pt.	139 pt.	6.2	17½"	12½"	21½"	Dri-Eaz	F413	**30KE39**
Dehumidifiers								
64 pt.	145 pt.	6.4	32"	20"	19½"	Dri-Eaz	F203-A	**4AYF4**
125 pt.	250 pt.	11.3	36¾"	18"	23½"	Fantech	EPD250CR	**2MRV1**
Low-Grain Refrigerant Dehumidifiers								
90 pt.	180 pt.	8.7	40½"	24"	23"	Dri-Eaz	F410	**39C365**
105 pt.	202 pt.	6.6	32⁷⁄₆₄"	20"	19⁵¹⁄₆₄"	Dri-Eaz	F600	**492T29**
130 pt.	235 pt.	8.3	33½"	20"	20"	Dri-Eaz	F412	**39C366**
170 pt.	242 pt.	10.5	40½"	23"	24"	Dri-Eaz	F411	**6UFY3**
Accessories								
Air Flow Adapter, For Use With 6UFY3						Dri-Eaz	F422	**6UFY5**
Filter, For Use With Mfr. No. F412, F203-A						Dri-Eaz	F581	**499M44**
Filter, For Use With Mfr. No. F410, F411						Dri-Eaz	F584	**499M47**

DRI-EAZ

Crawlspace/ Basement Dehumidifier

Unit is low profile and can fit between floor joists in crawlspaces and confined spaces. Built-in digital humidistat, condensate pump, and duct ring for ductability. ETL Listed to CSA standards.



Cap./24 Hrs. @ 90% RH	Bucket Cap.	Amps	H	W	D	Mfr. Model	Item No.
134 pt.	75 pt.	6.2	17⅜"	12½"	21½"	F515	**30JZ47**

Stainless Steel Strip Heaters

- 5/16"H x 1½"W
- 5/16"W x ½"L slotted holes on each end
- 10-32 screw terminals (screw and nut terminals on Vulcan units)

TEMPCO Vulcan

Sheath temp.: 1200°F max. Great for applications requiring low-profile designs. UL Recognized.



Offset Terminals



Parallel Terminals

Overall Length	Mounting Dim.	Watts	120VAC Mfr. Model	120VAC Item No.	240VAC Mfr. Model	240VAC Item No.
Tempco, Offset Terminals						
5¼"	4¼"	125	CSH00338	**2XDV9**	CSH00339	**2XDW2**
5¾"	4¾"	300	CSH01596	**2XDW4**	CSH01595	**2XDW6**
6"	5"	150	CSH00318	**2XDW8**	CSH00321	**2XDX1**
8"	7"	500	CSH00066	**2XDX3**	CSH00067	**2XDX5**
10½"	9½"	250	CSH00068	**2XDX7**	CSH00069	**2XDX9**
14"	13"	500	—	—	CSH00083	**2XDY2**
37¼"	36¼"	1500	CSH00145	**2XDY8**	CSH00146	**2XDZ1**
Tempco, Parallel Terminals						
5¼"	4¼"	125	CSH00336	**2XDZ3**	CSH00337	**2XDZ5**
5¾"	4¾"	300	CSH00163	**2XDZ7**	CSH00164	**2XDZ9**
6"	5"	150	CSH00165	**2XEA2**	CSH00166	**2XEA4**
8"	7"	150	CSH00169	**2XEA6**	CSH00170	**2XEA8**
8"	7"	250	CSH00344	**2XEC1**	CSH00171	**2XEC3**
8"	7"	500	CSH00323	**2XEC5**	CSH00324	**2XEC7**
10½"	9½"	250	CSH00172	**2XEC9**	CSH00173	**2XED2**
10½"	9½"	400	CSH01618	**2XED4**	CSH01433	**2XED6**
12"	11"	250	CSH01600	**2XED8**	CSH01601	**2XEE1**
12"	11"	350	CSH00346	**2XEE3**	CSH00174	**2XEE5**
14"	13"	300	CSH01602	**2XEE7**	CSH01603	**2XEE9**
14"	13"	500	CSH00175	**2XEF2**	CSH00176	**2XEF4**
17⅞"	16⅞"	500	CSH01606	**2XEG1**	CSH01607	**2XEG3**
17⅞"	16⅞"	750	CSH00177	**2XEG5**	CSH00178	**2XEG7**
17⅞"	16⅞"	1000	—	—	CSH01257	**2XEG9**
19½"	18½"	350	CSH01608	**2XEH2**	CSH01609	**2XEH4**
19½"	18½"	1200	CSH00328	**2XEH6**	CSH01619	**2XEH8**
21"	20"	500	CSH01610	**2XEJ1**	CSH01611	**2XEJ3**
21"	20"	750	CSH01620	**2XEJ5**	CSH01621	**2XEJ7**
23¾"	22¾"	750	CSH00179	**2XEJ9**	CSH00180	**2XEK2**
23¾"	22¾"	1000	CSH01624	**2XEK4**	CSH01625	**2XEK6**
25½"	24½"	500	CSH01613	**2XEK8**	CSH01614	**2MXF4**
26¾"	25¾"	700	CSH01615	**2MXF6**	CSH01616	**2MXF8**
30½"	29½"	750	CSH01627	**2MXG5**	CSH01628	**2MXG7**
30½"	29½"	1250	—	—	CSH01629	**2MXG9**
33½"	32½"	950	CSH01630	**2MXH2**	CSH01631	**2MXH4**
35⅞"	34⅞"	1000	—	—	CSH00186	**2MXH5**
35⅞"	34⅞"	1500	—	—	CSH00462	**2MXH6**
37¼"	36¼"	1500	CSH00187	**2MXH7**	CSH00188	**2MXH8**
42½"	41½"	1500	—	—	CSH01632	**2MXH9**
45½"	44½"	1250	—	—	CSH01617	**2MXJ1**
47⅞"	46⅞"	2250	—	—	CSH01230	**2MXJ2**
Vulcan, Offset Terminals						
8"	7"	150	OS1208-150A	**2E919**	OS1208-150B	**4E259**
8"	7"	250	OS1408-250A	**4E250**	OS1408-250B	**4E251**
10½"	9½"	400	OS1410-400A	**3HL91**	OS1410-400B	**3HL92**
12"	11"	250	OS1212-250A	**2E920**	OS1212-250B	**2E921**
12"	11"	350	OS1412-350A	**4E252**	OS1412-350B	**4E253**
14"	13"	300	OS1214-300A	**4E260**	OS1214-300B	**4E261**
14"	13"	500	OS1414-500A	**3HL97**	—	—
15¼"	14¼"	325	OS1215-325A	**3HL51**	OS1215-325B	**3HL52**
17⅞"	16⅞"	500	OS1217-500A	**3HL57**	OS1417-500B	**2E923**
17⅞"	16⅞"	500	OS1417-500A	**4E254**	OS1217-500B	**3HL58**
17⅞"	16⅞"	750	OS1417-750A	**3HM04**	OS1417-750B	**3HM05**
17⅞"	16⅞"	1000	—	—	OS1417-1000B	**3HM03**
21"	20"	500	OS1221-500A	**2E922**	OS1221-500B	**4E262**
21"	20"	750	—	—	OS1421-750B	**3HM13**
23¾"	22¾"	700	OS1423-700A	**4E255**	OS1423-700B	**4E256**
23¾"	22¾"	750	OS1223-750A	**3HL65**	OS1223-750B	**3HL66**
23¾"	22¾"	1000	—	—	OS1423-1000B	**3HM15**
23¾"	22¾"	1500	—	—	OS1423-1500B	**3HM17**
25½"	24½"	500	OS1225-500A	**3HL67**	OS1225-500B	**3HL68**
30½"	29½"	750	—	—	OS1430-750B	**3HM33**
30½"	29½"	1250	—	—	OS1430-1250B	**3HM31**
35⅞"	34⅞"	1000	—	—	OS1235-1000B	**3HL78**
35⅞"	34⅞"	1500	—	—	OS1435-1500B	**3HM37**
42½"	41½"	1250	—	—	OS1242-1250B	**3HL84**
42½"	41½"	1500	—	—	OS1442-1500B	**3HM43**
47⅞"	46⅞"	2250	—	—	OS1448-2250B	**3HM47**

Stainless Steel Finned Strip Heaters



No. 2XDT9

TEMPCO Vulcan

- 1½"W element
- 5/16"W x ½"L slotted holes
- 10-32 screw terminals
- 1⅜"H x 2"W across fins
- Mounting tabs included

Seamless 304 stainless steel tube provides the best combination of physical strength and resistance to high temps. and chemical corrosion. Sheath temp.: 1200°F max. Fins are nickel-plated steel. UL Recognized except Nos. 3HM48 and 3HM49.

Overall Length	Mounting Dim.	Watts	Watt Density	120VAC Mfr. Model	120VAC Item No.	240VAC Mfr. Model	240VAC Item No.
Tempco, Each End Terminals							
10½"	9½"	500	25W/sq. in.	CSF00521	**2XEE4**	CSF00522	**2XEE6**
10½"	9½"	725	45W/sq. in.	CSF00123	**2XEE8**	CSF00124	**2XEF1**
12"	11"	900	40W/sq. in.	CSF00131	**2XEF3**	CSF00132	**2XEF5**
14"	13"	750	28W/sq. in.	CSF00232	**2XEF7**	CSF00249	**2XEF9**
14"	13"	1100	37W/sq. in.	CSF00135	**2XEG2**	CSF00136	**2XEG4**
15¼"	14¼"	1250	37W/sq. in.	CSF00139	**2XEG6**	CSF00140	**2XEG8**
17⅞"	16⅞"	750	18W/sq. in.	CSF00506	**2XEH1**	CSF00524	**2XEH3**
17⅞"	16⅞"	1550	38W/sq. in.	CSF00144	**2XEH9**	CSF00145	**2XEJ2**
19½"	18½"	1000	21W/sq. in.	—	—	CSF00526	**2XEJ4**
19½"	18½"	1700	36W/sq. in.	—	—	CSF00150	**2XEJ6**
21"	20"	1900	36W/sq. in.	CSF00154	**2XEJ8**	CSF00155	**2XEK1**
23¾"	22¾"	1000	16W/sq. in.	—	—	CSF00527	**2XEK3**
23¾"	22¾"	1450	23W/sq. in.	CSF00529	**2XEK5**	—	—
23¾"	22¾"	2200	30W/sq. in.	—	—	CSF00159	**2XEK7**
26¾"	25¾"	2500	34W/sq. in.	—	—	CSF00167	**2MXF9**
30½"	29½"	1800	21W/sq. in.	—	—	CSF00532	**2MXG2**
33½"	32½"	2100	21W/sq. in.	—	—	CSF00533	**2MXG4**
33½"	32½"	3150	32W/sq. in.	—	—	CSF00178	**2MXG6**
42½"	41½"	4150	31W/sq. in.	—	—	CSF00217	**2MXH1**
48"	47"	2250	15W/sq. in.	—	—	CSF00534	**2MXH3**
Tempco, Offset Terminals							
10½"	9½"	500	24W/sq. in.	CSF00129	**2XDT9**	CSF00130	**2XDU1**
14"	13"	1100	33W/sq. in.	CSF00060	**2XDU2**	CSF00061	**2XDU3**
19½"	18½"	1700	32W/sq. in.	—	—	CSF00080	**2XDU4**
23¾"	22¾"	1000	15W/sq. in.	—	—	CSF00528	**2XDU5**
23¾"	22¾"	2200	32W/sq. in.	—	—	CSF00090	**2XDU6**
25½"	24½"	2400	33W/sq. in.	—	—	CSF00094	**2XDU7**
26¾"	25¾"	2500	31W/sq. in.	—	—	CSF00100	**2XDU8**
33½"	32½"	3150	31W/sq. in.	—	—	CSF00180	**2XDU9**
35⅞"	34⅞"	3450	31W/sq. in.	—	—	CSF00110	**2XDV1**
42½"	41½"	4150	30W/sq. in.	—	—	CSF00117	**2XDV2**
Tempco, Parallel Terminals							
10½"	9½"	500	21W/sq. in.	CSF00001	**2XDV5**	CSF00002	**2XDV6**
10½"	9½"	725	31W/sq. in.	CSF00003	**2XDV7**	CSF00004	**2XDV8**
12"	11"	900	31W/sq. in.	CSF00008	**2XDW1**	CSF00009	**2XDW3**
14"	13"	1100	31W/sq. in.	CSF00012	**2XDW9**	CSF00013	**2XDX2**
17⅞"	16⅞"	1000	21W/sq. in.	CSF00539	**2XDY3**	CSF00507	**2XDY5**
17⅞"	16⅞"	1550	31W/sq. in.	CSF00016	**2XDY7**	CSF00017	**2XDY9**
21"	20"	1900	31W/sq. in.	CSF00024	**2XDZ6**	CSF00025	**2XDZ8**
23¾"	22¾"	1000	15W/sq. in.	—	—	CSF00509	**2XEA1**
23¾"	22¾"	2200	31W/sq. in.	—	—	CSF00026	**2XEA5**
25½"	24½"	2400	31W/sq. in.	—	—	CSF00027	**2XEC2**
26¾"	25¾"	2500	30W/sq. in.	—	—	CSF00028	**2XEC4**
30½"	29½"	1800	19W/sq. in.	—	—	CSF00515	**2XEC6**
33½"	32½"	3150	29W/sq. in.	—	—	CSF00033	**2XED1**
35⅞"	34⅞"	3450	30W/sq. in.	—	—	CSF00034	**2XED3**
42½"	41½"	4150	30W/sq. in.	—	—	CSF00036	**2XED5**
48"	47"	2250	14W/sq. in.	—	—	CSF00037	**2XED7**
Vulcan, Offset Terminals							
10½"	9½"	350	16W/sq. in.	OSF1510-350A	**3HM48**	OSF1510-350B	**3HM49**
10½"	9½"	475	22W/sq. in.	OSF1510-475A	**3HM50**	OSF1510-475B	**3HM51**
10½"	9½"	725	33W/sq. in.	OSF1510-725A	**2E924**	OSF1510-725B	**4E265**
12"	11"	900	33W/sq. in.	OSF1512-900A	**4E266**	OSF1512-9008	**2E925**
15¼"	14¼"	1250	32W/sq. in.	OSF1515-1250A	**4E267**	OSF1515-1250B	**2E926**
17⅞"	16⅞"	1000	21W/sq. in.	—	—	OSF1517-1000B	**3HM59**
17⅞"	16⅞"	1550	32W/sq. in.	OSF1517-1550A	**4E268**	OSF1517-1550B	**4E269**
19½"	18½"	1000	18W/sq. in.	—	—	OSF1519-1000B	**3HM63**
21"	20"	1900	32W/sq. in.	OSF1521-1900A	**4E270**	OSF1521-1900B	**4E271**
25½"	24½"	1500	20W/sq. in.	—	—	OSF1525-1500B	**3HM71**
48"	47"	2250	14W/sq. in.	—	—	OSF1548-2250B	**3HM79**



No. 4TCR6

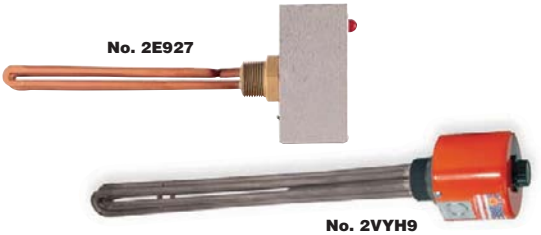
Cartridge Immersion Heaters

TEMPCO

Provide greater heat dissipation in a select area than a tubular immersion heater. For use in heating water and other liquids in platen, plastic mold, die heating, liquid immersion, and air heating applications.

NPT	Min. Immersion Depth	Watts	Heater Voltage	Watt Density	Mfr. Model	Item No.
Brass Screw Plugs & High Temp. SS Sheath						
½"	1½"	100	120VAC	41 sq. in.	HDL00001	**4TCR6**
½"	3½"	250	120VAC	39 sq. in.	HDL00003	**4TCR8**
½"	3½"	1000	240VAC	157 sq. in.	HDL00005	**4TCT1**
½"	7⅛"	500	120VAC	33 sq. in.	HDL00007	**4TCT3**
½"	12"	750	120VAC	33 sq. in.	HDL00011	**4TCT7**
½"	12"	1000	120VAC	130 sq. in.	HDL00013	**4TCT9**
¾"	4¼"	500	120VAC	53 sq. in.	HDL00015	**4TCU2**
¾"	4¼"	750	120VAC	80 sq. in.	HDL00017	**4TCU4**
¾"	4¼"	1000	120VAC	106 sq. in.	HDL00019	**4TCU6**
¾"	4¼"	1000	240VAC	106 sq. in.	HDL00020	**4TCU7**
¾"	4¾"	375	120VAC	35 sq. in.	HDL00025	**4TCU8**
¾"	4¾"	375	240VAC	35 sq. in.	HDL00026	**4TCU9**
¾"	6¼"	500	120VAC	35 sq. in.	HDL00033	**4TCV3**
¾"	6¼"	2000	240VAC	141 sq. in.	HDL00035	**4TCV5**
¾"	7¼"	3000	240VAC	182 sq. in.	HDL00043	**4TCV9**
¾"	7¼"	3000	480VAC	182 sq. in.	HDL00044	**4TCW1**
¾"	9"	1000	120VAC	49 sq. in.	HDL00045	**4TCW2**
¾"	9"	4000	240VAC	194 sq. in.	HDL00047	**4TCW4**
¾"	10½"	750	240VAC	31 sq. in.	HDL00050	**4TCW7**
¾"	10½"	1250	120VAC	51 sq. in.	HDL00053	**4TCX1**
¾"	10½"	1250	240VAC	51 sq. in.	HDL00054	**4TCX2**
¾"	10½"	3000	240VAC	124 sq. in.	HDL00051	**4TCW8**
¾"	10½"	5000	240VAC	202 sq. in.	HDL00055	**4TCX3**
¾"	10½"	5000	480VAC	202 sq. in.	HDL00056	**4TCX4**
¾"	12½"	1500	240VAC	52 sq. in.	HDL00057	**4TCX5**
¾"	12½"	6000	480VAC	208 sq. in.	HDL00058	**4TCX6**

Scan. Order. Done.
Details on page A1.



Screw Plug Immersion Heaters

- NEMA 1 housing, except Nos. 4E274 to 4E279

WITH THERMOSTAT

- Control range: copper, 60° to 250°F; steel (Vulcan models), 100° to 550°F; steel (Tempco models), 60° to 250°F

WITHOUT THERMOSTAT

Require external flow switch, low-liquid cutoff switch, over-temp. switch, or other safety device depending on the type of system.

AUTOMATIC RESET

- Control range: 110° to 190°F

NPT	Min. Immersion Depth	Watts	Heater Voltage	Phase	WITH THERMOSTAT Watt Density	Brand	Mfr. Model	Item No.	WITHOUT THERMOSTAT Watt Density	Brand	Mfr. Model	Item No.
Brass Screw Plug and Copper Sheath												
1"	6⅜"	500	120VAC	1	46 sq. in.	Tempco	TSP02078	**2VXR8**	46 sq. in.	Tempco	TSP02007	**2VXR9**
1"	6⅜"	750	120VAC	1	69 sq. in.	Tempco	TSP02079	**2VXT1**	69 sq. in.	Tempco	TSP02097	**2VXT2**
1"	6⅜"	1000	120VAC	1	92 sq. in.	Tempco	TSP02080	**2VXT3**	92 sq. in.	Tempco	TSP02096	**2VXT4**
1"	9¼"	1500	120VAC	1	90 sq. in.	Tempco	TSP02081	**2VXT5**	90 sq. in.	Tempco	TSP02099	**2VXT6**
1¼"	6"	1000	120VAC	1	90 sq. in.	Tempco	TSP03260	**6THT3**	83 sq. in.	Vulcan	ASW110A	**4E274**
1¼"	6"	1000	240VAC	1	90 sq. in.	Tempco	TSP03261	**6THT4**	83 sq. in.	Vulcan	ASW110B	**4E275**
1¼"	6½"	2000	120VAC	1	94 sq. in.	Tempco	TSP03262	**6THT5**	80 sq. in.	Vulcan	ASW120A	**4E278**
1¼"	6½"	2000	240VAC	1	94 sq. in.	Tempco	TSP03263	**6THT6**	80 sq. in.	Vulcan	ASW120B	**4E279**
1¼"	7¼"	1500	120VAC	1	61 sq. in.	Tempco	TSP02082	**2VXT7**	61 sq. in.	Tempco	TSP02100	**2VXT8**
1¼"	9"	1500	120VAC	1	84 sq. in.	Tempco	TSP03264	**6THT7**	84 sq. in.	Vulcan	ASW115A	**4E276**
1¼"	9"	1500	240VAC	1	84 sq. in.	Tempco	TSP03265	**6THT8**	84 sq. in.	Vulcan	ASW115B	**4E277**
1¼"	9¼"	2000	120VAC	1	61 sq. in.	Tempco	TSP02084	**2VXT9**	61 sq. in.	Tempco	TSP02102	**2VXU1**
2"	8"	2000	120VAC	1	48 sq. in.	Vulcan	AUW220A	**4E280**	—	—	—	—
2"	8"	2000	240VAC	1	48 sq. in.	Vulcan	AUW220B	**4E281**	—	—	—	—
2"	10"	3000	240VAC	3	45 sq. in.	Tempco	TSP02085	**2VXU2**	45 sq. in.	Tempco	TSP02103	**2VXU3**
2"	11"	4000	240VAC	3	54 sq. in.	Tempco	TSP02086	**2VXU4**	54 sq. in.	Tempco	TSP02104	**2VXU5**
2"	11"	5000	240VAC	3	67 sq. in.	Tempco	TSP02087	**2VXU6**	67 sq. in.	Tempco	TSP02105	**2VXU7**
2"	11"	5000	480VAC	3	67 sq. in.	Tempco	TSP02088	**2VXU8**	67 sq. in.	Tempco	TSP02106	**2VXV1**
2"	11⅛"	1500	120VAC	1	48 sq. in.	Vulcan	AUW215A	**2E931**	—	—	—	—
2"	11⅞"	3000	120VAC	1	48 sq. in.	Vulcan	AUW230A	**4E282**	—	—	—	—
2"	11⅞"	3000	240VAC	1	48 sq. in.	Vulcan	AUW230B	**4E283**	—	—	—	—
2"	16"	7500	240VAC	3	65 sq. in.	Tempco	TSP02089	**2VXV3**	65 sq. in.	Tempco	TSP02107	**2VXV5**
2"	16"	7500	480VAC	3	65 sq. in.	Tempco	TSP02090	**2VXV7**	65 sq. in.	Tempco	TSP02008	**2VXV9**
2"	19¾"	5000	240VAC	1	48 sq. in.	Vulcan	AUW250B	**2E932**	—	—	—	—
2"	22"	10,000	240VAC	3	61 sq. in.	Tempco	TSP02091	**2VXW2**	61 sq. in.	Tempco	TSP02009	**2VXW4**
2"	22"	10,000	480VAC	3	61 sq. in.	Tempco	TSP02092	**2VXW6**	61 sq. in.	Tempco	TSP02022	**2VXW8**
2½"	32¼"	12,000	480VAC	3	44 sq. in.	Tempco	TSP02093	**2VXX1**	44 sq. in.	Tempco	TSP02108	**2VXX3**
2½"	47⅜"	18,000	480VAC	3	44 sq. in.	Tempco	TSP02095	**2VXX5**	44 sq. in.	Tempco	TSP02110	**2VXX7**
Brass Screw Plug and Copper Sheath, Automatic Reset, Low Limit Cutout												
1"	9⅛"	1000	120VAC	1	31 sq. in.	Vulcan	WTP906A	**2E927**	—	—	—	—
1"	10⅛"	1500	120VAC	1	41 sq. in.	Vulcan	WTP910A	**2E928**	—	—	—	—
Stainless Steel Screw Plug and 304 SS Sheath												
1"	6⅜"	500	120VAC	1	48 sq. in.	Tempco	TSP02011	**2VYP8**	48 sq. in.	Tempco	TSP02241	**2VYR1**
1"	6⅜"	750	120VAC	1	70 sq. in.	Tempco	TSP02227	**2VYR3**	70 sq. in.	Tempco	TSP02295	**2VYR5**
1"	6⅜"	1000	120VAC	1	94 sq. in.	Tempco	TSP02228	**2VYR7**	94 sq. in.	Tempco	TSP02242	**2VYR9**
1"	9¼"	1500	120VAC	1	63 sq. in.	Tempco	TSP02230	**2VYT2**	63 sq. in.	Tempco	TSP02244	**2VYT4**
Stainless Steel Screw Plug and 316 SS Sheath												
1"	6⅜"	1000	120VAC	1	94 sq. in.	Tempco	TSP02791	**2VYN5**	94 sq. in.	Tempco	TSP02792	**2VYN7**
1"	9¼"	1500	120VAC	1	63 sq. in.	Tempco	TSP02793	**2VYN9**	63 sq. in.	Tempco	TSP02459	**2VYP2**
1¼"	9¼"	2000	120VAC	1	61 sq. in.	Tempco	TSP02794	**2VYP4**	61 sq. in.	Tempco	TSP02795	**2VYP6**
Steel Screw Plug and Steel Sheath												
1"	12⁹⁄₁₆"	475	120VAC	1	21 sq. in.	Tempco	TSP02204	**2VYH9**	21 sq. in.	Tempco	TSP02216	**2VYJ2**
1¼"	12¾"	1000	120VAC	1	23 sq. in.	Tempco	TSP02205	**2VYJ4**	23 sq. in.	Tempco	TSP02217	**2VYJ6**
1¼"	18½"	1500	120VAC	1	23 sq. in.	Tempco	TSP02208	**2VYJ8**	23 sq. in.	Tempco	TSP02220	**2VYK1**
2"	11¾"	1500	120VAC	1	23 sq. in.	Vulcan	AUO215A	**2E933**	—	—	—	—
2"	18"	3000	240VAC	3	21 sq. in.	Tempco	TSP02209	**2VYK3**	21 sq. in.	Tempco	TSP02221	**2VYK5**
2"	29"	5000	240VAC	3	21 sq. in.	Tempco	TSP02210	**2VYK7**	21 sq. in.	Tempco	TSP02222	**2VYK9**
2"	29"	5000	480VAC	3	21 sq. in.	Tempco	TSP02211	**2VYL2**	21 sq. in.	Tempco	TSP02223	**2VYL4**
2"	40⅜"	5000	240VAC	1	23 sq. in.	Vulcan	AUO250B	**2E934**	—	—	—	—
2"	43½"	7500	480VAC	3	21 sq. in.	Tempco	TSP02213	**2VYL6**	21 sq. in.	Tempco	TSP02010	**2VYL8**
2"	57½"	10,000	480VAC	3	21 sq. in.	Tempco	TSP02215	**2VYN1**	21 sq. in.	Tempco	TSP02226	**2VYN3**



Drum Immersion and Bottom-Outlet Heaters

Drum Immersion—Include flange for mounting in 2" bung opening.

Over-the-Side—Feature sludge legs to elevate element off bottom of open container. 36"H riser, except No. 3HT66 is 54"H.

Bottom-Outlet—4" metal housing protects heater termination. Ring clamp mounting design with a bronze flange for mounting in a 2⁷⁄₁₆"-dia. hole.

Sanitizing Sink/Tank Immersion—Adjustable stainless steel mounting bracket and 6-ft. cord set with polarized plug included.

Watts	Watt Density	Sheath Material	Overall Length*	Control Range	Heater Voltage	Phase	Brand	Mfr. Model	Item No.
Drum Immersion Heaters									
1000	8 sq. in.	Stainless Steel	19½"	60° to 250°F	120VAC	1	Tempco	TAT30002	**2VYH2**
4000	32 sq. in.	Stainless Steel	19½"	60° to 250°F	240VAC	1	Tempco	TAT30001	**2VYH4**
1000	8 sq. in.	Steel	19½"	60° to 250°F	120VAC	1	Tempco	TAT30005	**2VYH6**
4000	32 sq. in.	Steel	19½"	60° to 250°F	240VAC	1	Tempco	TAT30006	**2VYH8**
Over-the-Side Immersion Heaters									
9000	40 sq. in.	Incoloy®	17"	—	240VAC	3	Vulcan	TIB-39TB	**3HT86** †
12,000	40 sq. in.	Incoloy®	40¼"	—	240VAC	3	Vulcan	TI-312TB	**3HT66**
Bottom-Outlet Immersion Heaters									
1500	34 sq. in.	Copper	7½"	—	120VAC	1	Vulcan	ANW115	**2E929** †
5000	44 sq. in.	Copper	12⅛"	—	240VAC	1	Vulcan	ANW250	**2E930** †
Sanitizing Sink/Tank Immersion Heaters									
1000	14 sq. in.	316 SS	32½"	60° to 250°F	120VAC	1	Tempco	TAT40008	**6THU3**
1500	16 sq. in.	316 SS	32½"	60° to 250°F	120VAC	1	Tempco	TAT40007	**6THU4**
4000	56 sq. in.	316 SS	32½"	60° to 250°F	240VAC	1	Tempco	TAT40006	**6THU5**
6000	65 sq. in.	316 SS	32½"	60° to 250°F	240VAC	1	Tempco	TAT40005	**6THU6**
6000	51 sq. in.	316 SS	43¾"	55° to 115°F	240VAC	1	Tempco	TAT40017	**6THU7**
1440	13 sq. in.	316 SS	43¾"	55° to 115°F	120VAC	1	Tempco	TAT40013	**6THU8**

Refers to length of heated element. † Circular element configuration; Overall Length indicates diameter.

Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)


Flanged


Screw Plug

TEMPCO

Circulation Heaters and Circulation Booster Heaters

- NEMA 1 housing
- Flanged models have high temp. stainless steel sheath material

Self-contained thermostatically controlled heating units consist of a flanged or screw-plug immersion heater mounted into a tank assembly. Replacement Heater Elements with Gasket can be used as stand-alone heaters.

Watts	Watt Density	Flange Size	Heater Voltage	Phase	HEATERS: Overall Length	HEATERS: Control Range	HEATERS: Mfr. Model	HEATERS: Item No.	REPLACEMENT HEATER ELEMENTS WITH GASKET: Overall Length	REPLACEMENT HEATER ELEMENTS WITH GASKET: Mfr. Model	REPLACEMENT HEATER ELEMENTS WITH GASKET: Item No.
Circulation Heaters (Flanged, 150-lb. Pressure-Rated Steel, with Tank Mounted Double Pole Thermostat)											
6000	48 sq. in.	3"	240VAC	3	35"	60° to 250°F	CHF02339	**2VYE3**	21 9/16"	TFP02655	**2VYA2**
6000	48 sq. in.	3"	480VAC	3	35"	60° to 250°F	CHF02340	**2VYE5**	21 9/16"	TFP02657	**2VYA4**
12,000	48 sq. in.	3"	240VAC	3	45"	60° to 250°F	CHF02341	**2VYE7**	36 3/16"	TFP02666	**2VYA6**
12,000	48 sq. in.	3"	480VAC	3	45"	60° to 250°F	CHF02342	**2VYE9**	36 3/16"	TFP02668	**2VYA8**
12,000	48 sq. in.	5"	480VAC	3	—	—	—	—	22 15/16"	TFP02708	**2VYC3**
18,000	48 sq. in.	3"	480VAC	3	58"	60° to 250°F	CHF02344	**2VYF2**	51 9/16"	TFP02674	**2VYC1**
24,000	48 sq. in.	5"	480VAC	3	46"	60° to 250°F	CHF02346	**2VYF4**	37 15/16"	TFP02720	**2VYC5**
40,000	48 sq. in.	5"	480VAC	3	64"	60° to 250°F	CHF02348	**2VYF6**	56 15/16"	TFP01498	**2VYC7**

Watts	Watt Density	Sheath Material	Control Range	Heater Voltage	Phase	BOOSTER HEATERS: Overall Length	BOOSTER HEATERS: Mfr. Model	BOOSTER HEATERS: Item No.	REPLACEMENT BOOSTER HEATER ELEMENTS WITH THERMOSTAT: Overall Length	REPLACEMENT BOOSTER HEATER ELEMENTS WITH THERMOSTAT: Mfr. Model	REPLACEMENT BOOSTER HEATER ELEMENTS WITH THERMOSTAT: Item No.
Circulation Booster Heaters (Screw Plug, 1¼" Element, 1" NPT Water, with Thermostat)											
500	23 sq. in.	Steel	150° to 560°F	120VAC	1	22"	CHF02304	**2VYC9**	13-4/7"	TSP02750	**2VYF8**
750	23 sq. in.	Steel	150° to 560°F	120VAC	1	22"	CHF02306	**2VYD2**	18 3/16"	TSP02751	**2VYG1**
1000	23 sq. in.	Steel	150° to 560°F	240VAC	1	—	—	—	20-4/9"	TSP02752	**2VYG3**
1500	34 sq. in.	Copper	60° to 180°F	120VAC	1	18"	CHF02155	**2VYD6**	17"	TSP01411	**2VYG5**
2000	45 sq. in.	Copper	60° to 180°F	120VAC	1	18"	CHF02156	**2VYD8**	17"	TSP01409	**2VYG7**
3000	49 sq. in.	Copper	60° to 180°F	240VAC	1	22"	CHF02158	**2VYE1**	21 1/8"	TSP01410	**2VYG9**

Cal-Stat™ Thermostats

Vulcan

- Temp. range: -100° to 600°F

Thermostats—Differential of 1°F. ½" and ⅝" dia. models are UL Recognized (E36322). ⅝" dia. models are CSA Certified (LR 23541-4).

Food Service Thermostat—For fryers and other food service equipment and replacement units. 304 stainless steel. UL Recognized (E36322) and CSA Certified (LR23541-4).



Thermostat Type	Sheath Dia.	Overall Length	Insertion Depth	Thread NPT	Switch Action	Contact Rating Resistive @ 120V	Contact Rating Resistive @ 240V	Switch Ratings @ 120VDC	Mfr. Model	Item No.
Thermostats										
Cartridge	½"	3¼"	2½"	—	Open on Rise	5A	3A	1A	1A1C9	**2E937**
Cartridge	½"	3¼"	2⅝"	—	Close on Rise	5A	3A	1A	1A2C9	**2E938**
Cartridge	⅝"	4⅜"	3⅜"	—	Open on Rise	10A	5A	2A	1A1B9	**2E935**
Cartridge	⅝"	4⅜"	3¾"	—	Close on Rise	10A	5A	2A	1A2B9	**2E936**
Coupling Head, Cartridge	½"	3¼"	2"	⅜"-18	Open on Rise	5A	3A	1A	1E1C9	**3GD96** *
Coupling Head, Cartridge	½"	3¼"	2⅛"	⅜"-18	Close on Rise	5A	3A	1A	1E2C9	**3GD99** *
Coupling Head, Cartridge	⅝"	4½"	3"	½"-14	Open on Rise	10A	5A	2A	1E1B9	**3GD95** *
Coupling Head, Cartridge	⅝"	4½"	3⅛"	½"-14	Close on Rise	10A	5A	2A	1E2B9	**3GD98** *
Pipe Thread, Cartridge	½"	3¼"	2"	⅜"-18	Open on Rise	5A	3A	1A	1C1C9	**2E941** *
Pipe Thread, Cartridge	½"	3¼"	2⅛"	⅜"-18	Close on Rise	5A	3A	1A	1C2C9	**2E942** *
Pipe Thread, Cartridge	⅝"	4⅜"	3"	½"-14	Open on Rise	10A	5A	2A	1C1B9	**2E939** *
Pipe Thread, Cartridge	⅝"	4⅜"	3⅛"	½"-14	Close on Rise	10A	5A	2A	1C2B9	**2E940** *
Food Service Thermostat										
Pipe Thread, Cartridge, Straight Lead Exit Style	⅝"	5 31/32"	3 13/16"	½"-14	Open on Rise	10A	5A	2A	1C1B9-BJ	**3GD84**

**** Threaded mounting MNPT.***


No. 3HV08

Vulcan

Low-Temperature Air Duct Heaters

For use in heating ducts and dryers up to 100°F. Finned tubular heater construction and sheet metal terminal housing with predrilled flange mount.

Min. Duct D	Element W	Watts	No. of Elements	240VAC/1-Phase Mfr. Model	240VAC/1-Phase Item No.	480VAC/3-Phase Mfr. Model	480VAC/3-Phase Item No.
Finned Tubular Air Duct Heaters, Min. Air Flow: 600 cfm							
8"	6"	3000	3	VFT38-3B	**3HV04**	—	—
8"	12"	6000	6	VFT68 -6B	**3HV08**	VFT68-6C	**3HV09**
12"	18"	12,000	9	—	—	VFT912-12C	**3HV10**
12"	24"	16,000	12	—	—	VFT1212-16C	**3HT97**

Description	Mfr. Model	Item No.
Finned Tubular Replacement Heating Elements, ¾-16 Threads		
240VAC/1-Phase, For Use With Mfr. No. VFT38-3B, VFT68 -6B	RE8-1000B	**3HP14**
480VAC/3-Phase, For Use With Mfr. No. VFT38-3C, VFT68-6C, VFT98-9C	RE8-1000C	**3HP15**
480VAC/3-Phase, For Use With Mfr. No. VFT912-12C, VFT1212-16C	RE12-1333C	**3HP07**


No. 3HK15


No. 3HK19

Vulcan

Industrial Heaters and Elements

Low-Profile Enclosure Heaters—1⅜"H x 2"W finned strip heaters with mounting brackets. 304 stainless steel. UL Recognized.

Finned Tubular Heating Elements—1010 carbon steel sheath with high-temperature, corrosion-resistant finish. Sheath temperature: 800°F max. 2" center-to-center mounting.

- ¾-16 threaded mounting fittings with hardware
- 8-32 screw and nut terminals

L	Mounting Dim.	Watts	Mfr. Model	Item No.
Low-Profile Enclosure Heaters, 120VAC/1-Phase				
12⅛"	11⅜"	200	E-OSF-1510-200A	**3HK15**
15⅝"	14⅞"	350	E-OSF-1514-350A	**3HK16**
19½"	18¾"	450	E-OSF-1517-450A	**3HK17**
25⅜"	24⅝"	700	E-OSF-1523-700A	**3HK18**

Overall Length	Installation Depth	Watts	Mfr. Model	Item No.
Finned Tubular Heating Elements, 240VAC/1-Phase				
12 7/16"	11 5/16"	2000	FTH20B-B	**3HK19**
17 7/16"	16 5/16"	3000	FTH30B-B	**3HK20**
22 7/16"	21 5/16"	4000	FTH40B-B	**3HK21**
27 7/16"	26 5/16"	5000	FTH50B-B	**3HK22**

Scan. Order. Done.
Details on page A1.

High- and Low-Watt-Density Cartridge Heaters

HIGH-WATT-DENSITY

Tempco
- 321 stainless steel sheath tolerates high temps.
- Sheath dia. tolerance: ±0.002"

Vulcan, Thunderbolt™— Operate up to 5 times the watt density of standard cartridge heaters.
- Corrosion-resistant alloy sheath
- Sheath dia. tolerance: +0.000" to -0.004"

LOW-WATT-DENSITY
- Corrosion-resistant 304 stainless steel sheath

Excellent for insertion into dies, molds, and platens.

For more cartridge heaters, go to Grainger.com®.

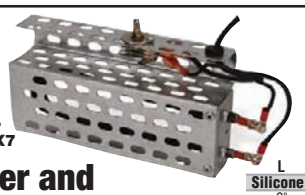

No. 4NKH1

Tempco
- Sheath dia. tolerance: ±0.002"

Vulcan
- Sheath dia. tolerance: +0.000" to -0.004"

Dia.	L	Watts	Watt Density	120VAC Mfr. Model	120VAC Item No.	240VAC Mfr. Model	240VAC Item No.
Tempco, High-Watt-Density, 10" Leads, Max. Temp. 1400°F							
⅛"	1¼"	25	90W/sq. in.	HDC19100	**4NHY6**	—	—
⅛"	1¼"	50	180W/sq. in.	HDC19102	**4NHY8**	—	—
⅛"	1½"	30	80W/sq. in.	HDC19103	**4NHY9**	—	—
⅛"	1½"	60	160W/sq. in.	HDC19104	**4NHZ1**	—	—
¼"	1"	80	204W/sq. in.	HDC00002	**4NJA3**	—	—
¼"	1"	100	255W/sq. in.	HDC00003	**4NJA4**	HDC00004	**4NJA5**
¼"	1½"	100	127W/sq. in.	HDC00016	**4NJA6**	—	—
¼"	1½"	200	255W/sq. in.	HDC00022	**4NJA8**	HDC00023	**4NJA9**
¼"	2"	100	85W/sq. in.	HDC00030	**4NJC1**	—	—
¼"	2"	250	212W/sq. in.	HDC00038	**4NJC2**	—	—
¼"	2½"	250	159W/sq. in.	HDC00045	**4NJC3**	HDC00046	**4NJC4**
¼"	3"	100	51W/sq. in.	HDC00050	**4NJC5**	—	—
¼"	3½"	300	127W/sq. in.	HDC00063	**4NJC9**	—	—
¼"	4"	200	73W/sq. in.	HDC00070	**4NJD1**	—	—
¼"	4"	300	109W/sq. in.	HDC00074	**4NJD2**	HDC00075	**4NJD3**
¼"	4½"	350	111W/sq. in.	HDC20500	**4NJD4**	—	—
¼"	8"	600	102W/sq. in.	—	—	HDC00102	**4NJE2**
⅜"	1"	100	170W/sq. in.	HDC00127	**4NJE4**	—	—
⅜"	1½"	250	212W/sq. in.	HDC00157	**4NJE6**	HDC00158	**4NJE7**
⅜"	2"	400	226W/sq. in.	HDC00184	**4NJE8**	HDC00185	**4NJE9**
⅜"	3"	250	85W/sq. in.	HDC00242	**4NJF3**	HDC00243	**4NJF4**
⅜"	3"	500	170W/sq. in.	HDC00251	**4NJF5**	HDC00252	**4NJF6**
⅜"	3½"	350	99W/sq. in.	HDC00263	**4NJF7**	HDC00264	**4NJF8**
⅜"	4"	250	61W/sq. in.	HDC00279	**4NJF9**	HDC00280	**4NJG1**
⅜"	4"	500	121W/sq. in.	HDC00289	**4NJG2**	HDC00290	**4NJG3**
⅜"	5"	300	57W/sq. in.	HDC00317	**4NJG4**	HDC00318	**4NJG5**
⅜"	6"	300	46W/sq. in.	HDC00347	**4NJG6**	HDC00348	**4NJG7**
⅜"	6"	750	116W/sq. in.	HDC00356	**4NJG8**	HDC00357	**4NJG9**
⅜"	7"	250	33W/sq. in.	HDC00365	**4NJH1**	HDC00366	**4NJH2**
⅜"	7"	600	78W/sq. in.	HDC00370	**4NJH3**	HDC00371	**4NJH4**
⅜"	7"	1000	131W/sq. in.	—	—	HDC00375	**4NJH5**
⅜"	8"	300	34W/sq. in.	HDC00382	**4NJH6**	HDC00383	**4NJH7**
½"	2"	400	170W/sq. in.	HDC00453	**4NJJ3**	—	—
½"	4"	750	136W/sq. in.	HDC00545	**4NJJ5**	HDC00546	**4NJJ6**
½"	5"	750	106W/sq. in.	HDC00578	**4NJJ7**	HDC00579	**4NJJ8**
½"	6"	500	58W/sq. in.	HDC00603	**4NJJ9**	HDC00604	**4NJK1**
½"	6"	750	87W/sq. in.	HDC00606	**4NJK2**	HDC00607	**4NJK3**
½"	6"	1000	116W/sq. in.	—	—	HDC00613	**4NJK4**
½"	8"	500	42W/sq. in.	HDC00642	**4NJK5**	HDC00643	**4NJK6**
½"	8"	1000	85W/sq. in.	—	—	HDC00651	**4NJK7**
½"	8"	1500	127W/sq. in.	—	—	HDC00654	**4NJK8**
½"	10"	1000	67W/sq. in.	—	—	HDC00675	**4NJL1**
⅝"	3"	500	102W/sq. in.	HDC00755	**4NJL4**	HDC00756	**4NJL5**
⅝"	6"	1000	93W/sq. in.	—	—	HDC00810	**4NJL8**
⅝"	8"	1500	102W/sq. in.	—	—	HDC00842	**4NJN1**
¾"	10"	2000	89W/sq. in.	—	—	HDC00979	**4NJN7**
Tempco, High-Watt-Density, 12" Leads, Includes 10" Braid On Leads, Max. Temp. 1400°F							
¼"	1"	100	255W/sq. in.	HDC20468	**4NJN9**	—	—
¼"	1¼"	40	58W/sq. in.	HDC20530	**4NJP2**	—	—
¼"	1½"	200	255W/sq. in.	HDC20559	**4NJW8**	HDC20561	**4NJP5**
¼"	2"	100	85W/sq. in.	HDC20534	**4NJP7**	—	—
¼"	3"	300	153W/sq. in.	HDC07930	**4NJR5**	HDC20539	**4NJR6**
¼"	4"	300	109W/sq. in.	HDC20542	**4NJR9**	HDC20543	**4NJT1**
¼"	7"	500	100W/sq. in.	HDC20575	**4NJT7**	HDC20546	**4NJT8**
¼"	10"	750	101W/sq. in.	—	—	HDC13361	**4NJU1**
⅜"	1¼"	150	172W/sq. in.	—	—	HDC20552	**4NJU7**
⅜"	1½"	250	212W/sq. in.	HDC20562	**4NJU9**	HDC17036	**4NJV1**
⅜"	2"	150	86W/sq. in.	HDC10584	**4NJV2**	HDC20555	**4NJV3**
⅜"	2"	200	115W/sq. in.	HDC17278	**4NJV4**	HDC20556	**4NJV5**
⅜"	2"	400	226W/sq. in.	HDC20563	**4NJV6**	HDC20565	**4NJV7**
⅜"	2½"	500	212W/sq. in.	HDC20576	**4NJW1**	HDC20567	**4NJW2**
⅜"	3"	500	170W/sq. in.	HDC20577	**4NJW5**	HDC18241	**4NJW6**
⅜"	3½"	350	99W/sq. in.	HDC20558	**4NJW7**	—	—
⅜"	4"	250	61W/sq. in.	—	—	HDC13036	**4NJX1**
⅜"	4"	500	121W/sq. in.	HDC04315	**4NJX4**	HDC05557	**4NJX5**
⅜"	5"	300	57W/sq. in.	HDC12441	**4NJX6**	—	—
⅜"	5"	500	96W/sq. in.	HDC05260	**4NJX8**	HDC04521	**4NJX9**
⅜"	6"	500	79W/sq. in.	HDC20570	**4NJY3**	HDC20571	**4NJY5**
⅜"	6"	750	79W/sq. in.	HDC20578	**4NJY4**	—	—
⅜"	7"	250	33W/sq. in.	HDC06130	**4NJY7**	HDC20579	**4NJY8**

Dia.	L	Watts	Watt Density	120VAC Mfr. Model	120VAC Item No.	240VAC Mfr. Model	240VAC Item No.
⅜"	8"	300	34W/sq. in.	HDC20586	**4NJZ3**	HDC20587	**4NLJ2**
⅜"	8"	600	68W/sq. in.	—	—	HDC02169	**4NJZ4**
½"	1½"	150	97W/sq. in.	HDC20590	**4NJZ8**	HDC20591	**4NJZ9**
½"	2"	200	86W/sq. in.	HDC06277	**4NKA1**	—	—
½"	2"	400	170W/sq. in.	—	—	HDC20592	**4NKA2**
½"	2½"	500	161W/sq. in.	HDC20595	**4NKA5**	—	—
½"	3"	250	64W/sq. in.	HDC09950	**4NKA7**	HDC05788	**4NKA8**
½"	3"	400	104W/sq. in.	—	—	HDC20597	**4NKA9**
½"	3"	750	193W/sq. in.	—	—	HDC17175	**4NKC1**
½"	4"	400	74W/sq. in.	—	—	HDC20599	**4NKC3**
½"	4"	550	100W/sq. in.	HDC20600	**4NKC4**	HDC20601	**4NKC5**
½"	4"	750	136W/sq. in.	HDC20602	**4NKC6**	HDC20603	**4NKC7**
½"	5"	500	72W/sq. in.	HDC20604	**4NKC8**	HDC07791	**4NKC9**
½"	5"	750	106W/sq. in.	HDC20605	**4NKD1**	HDC20606	**4NKD2**
½"	6"	500	58W/sq. in.	HDC04549	**4NKD3**	HDC20607	**4NKD4**
½"	6"	1000	116W/sq. in.	—	—	HDC04715	**4NKD7**
½"	8"	500	42W/sq. in.	HDC20608	**4NKD8**	HDC20609	**4NKD9**
½"	10"	500	34W/sq. in.	—	—	HDC09890	**4NKE3**
½"	10"	1000	67W/sq. in.	—	—	HDC13055	**4NKE4**
½"	10"	2000	134W/sq. in.	—	—	HDC20626	**4NKE6**
Vulcan, High-Watt-Density Thunderbolt™, 10" Leads, Max. Temp. 1600°F							
⅜"	1¼"	100	115W/sq. in.	TB380A	**2E905**	TB380B	**2E906**
⅜"	1¼"	150	172W/sq. in.	TB3815A	**2E907**	TB3815B	**3HR37**
⅜"	1½"	100	86W/sq. in.	TB381A	**2E908**	—	—
⅜"	2"	150	85W/sq. in.	TB3816A	**2E909**	TB3816B	**3HR38**
⅜"	2"	200	114W/sq. in.	TB3821A	**2E910**	TB3821B	**3HR48**
⅜"	2½"	200	85W/sq. in.	TB3035A	**3HP98**	—	—
⅜"	4"	300	73W/sq. in.	TB386A	**2E911**	TB386B	**2E913**
⅜"	5"	500	95W/sq. in.	TB3070A	**3HR18**	TB3070B	**3HR19**
⅜"	6"	500	77W/sq. in.	TB388A	**3HR55**	TB388B	**3HR56**
½"	1½"	150	96W/sq. in.	TB501A	**3HR64**	—	—
½"	2"	200	85W/sq. in.	TB5013A	**2E914**	—	—
½"	2¼"	280	102W/sq. in.	TB503A	**2E915**	—	—
½"	2½"	500	160W/sq. in.	TB5046A	**3HR78**	—	—
½"	3"	250	64W/sq. in.	TB505A	**3HR88**	TB505B	**3HR89**
½"	3"	400	102W/sq. in.	—	—	TB5015B	**3HR63**
½"	4"	250	46W/sq. in.	TB5065A	**3HR90**	—	—
½"	4"	550	100W/sq. in.	TB506A	**2E916**	TB506B	**3HR95**
½"	5"	500	71W/sq. in.	TB507A	**2E917**	TB507B	**3HT01**
⅝"	4"	550	80W/sq. in.	TB6214A	**3HT50**	TB6214B	**2E918**
⅝"	5"	500	57W/sq. in.	—	—	TB6025B	**3HT36**
⅝"	6"	500	46W/sq. in.	—	—	TB6031B	**3HT37**
¾"	6"	1000	77W/sq. in.	—	—	TB703B	**3HT64**
Tempco, Low-Watt-Density, 10" Leads, Max. Temp. 1200°F							
3⁄16"	1½"	20	30W/sq. in.	LDC00002	**4NKH6**	—	—
3⁄16"	3"	45	29W/sq. in.	LDC00005	**4NKH7**	—	—
¼"	2"	32	27W/sq. in.	LDC00015	**4NKH1**	—	—
¼"	4"	100	36W/sq. in.	LDC00022	**4NKH4**	—	—
¼"	6"	150	35W/sq. in.	LDC00025	**4NKH5**	—	—
⅜"	2"	60	31W/sq. in.	LDC01951	**4NKH8**	—	—
⅜"	2½"	80	32W/sq. in.	LDC01952	**4NKH9**	—	—
⅜"	4½"	150	32W/sq. in.	LDC00051	**4NKJ2**	—	—
⅜"	6"	250	39W/sq. in.	LDC00061	**4NKJ3**	—	—
½"	5"	200	28W/sq. in.	LDC00106	**4NKJ8**	LDC00107	**4NKJ9**
⅝"	3"	175	36W/sq. in.	LDC00171	**4TCR4**	—	—
⅝"	5"	250	28W/sq. in.	LDC00183	**4TCR5**	—	—
Vulcan, Low-Watt-Density, 10" Leads, Max. Temp. 900°F							
⅜"	1½"	50	42W/sq. in.	C3910A	**2E890**	—	—
⅜"	2⅜"	75	34W/sq. in.	C3830A	**2E891**	—	—
⅜"	3"	100	34W/sq. in.	C3840A	**2E892**	—	—
⅜"	4"	150	36W/sq. in.	C3930A	**2E893**	—	—
⅜"	5"	200	38W/sq. in.	C3940A	**2E894**	—	—
½"	2"	100	42W/sq. in.	C5180A	**2E895**	—	—
½"	6"	300	35W/sq. in.	C5170A	**2E896**	C5170B	**2E897**
⅝"	2⅜"	150	41W/sq. in.	C6360A	**2E898**	—	—
⅝"	4½"	240	31W/sq. in.	C627A	**3HJ87**	—	—
⅝"	7"	350	27W/sq. in.	C692A	**3HJ94**	—	—
¾"	4"	300	36W/sq. in.	C766A	**3HK06**	—	—
¾"	8"	500	28W/sq. in.	C758A	**3HJ97**	C758B	**3HJ98**
1"	6⅜"	600	33W/sq. in.	C9770A	**3HK10**	—	—


No. 4TCX7

Tubular
- Corrosion-resistant housing
- 3⅝"H x 1⁹⁄₁₆"W x 8⅜"L
- Mount via perforated holes in housing

Remote Thermostats—Can be placed anywhere in the enclosure and secured with pressure-sensitive adhesive.
- Silicone rubber base and enclosure
- 10A/250VAC, 15A/120VAC
- 48" leads

Silicone Rubber and Tubular Enclosure Heaters

Protect enclosures against condensation, humidity, and freezing. Mount heater vertically at the bottom of the enclosure.

Silicone Rubber
- Silicone rubber vulcanized to aluminum mounting plate
- ½"H with mounting flange
- 48" leads
- Mounting holes O.C.: oblong 5⁄32" x 14"

L	Mounting Dim.	Watts	W	T-Stat Opens 60°F, Closes 40°F Mfr. Model	T-Stat Opens 60°F, Closes 40°F Item No.	T-Stat Opens 140°F, Closes 110°F Mfr. Model	T-Stat Opens 140°F, Closes 110°F Item No.	T-Stat Opens 180°F, Closes 150°F Mfr. Model	T-Stat Opens 180°F, Closes 150°F Item No.
Silicone Rubber Enclosure Heaters, 120VAC, 1-Phase									
6"	4"	60	2½"	EHR00007	**2PCH8**	EHR00008	**2PCH9**	EHR00009	**2PCJ1**
12"	9"	120	2½"	EHR00014	**2PCJ2**	EHR00015	**2PCJ3**	EHR00016	**2PCJ4**
10"	7"	250	4½"	EHR00019	**2PCJ5**	EHR00029	**2PCJ6**	EHR00030	**2PCJ7**

Watts	Heater Voltage	With Thermostat and Cord Mfr. Model	With Thermostat and Cord Item No.	Without Thermostat or Cord Mfr. Model	Without Thermostat or Cord Item No.
Tubular Enclosure Heaters, 1-Phase					
100	120VAC	EHT00030	**4TCX7**	EHT00029	**4TCX8**
150	120VAC	EHT00032	**4TCX9**	EHT00031	**4TCY1**
250	120VAC	EHT00034	**4TCY2**	EHT00033	**4TCY3**
350	120VAC	EHT00036	**4TCY4**	EHT00035	**4TCY5**
500	120VAC	EHT00038	**4TCY6**	EHT00037	**4TCY7**
500	240VAC	—	—	EHT00039	**4TCY9**

Control Range (°F)	Mfr. Model	Item No.
Remote Thermostats, 120 to 240VAC, 15°F Diff.		
Open At 50, Close At 32	EHA00009	**6THT9**
Open At 60, Close At 40	EHA00001	**6THU0**
Open At 140, Close At 110	EHA00002	**6THU1**
Open At 180, Close At 150	EHA00003	**6THU2**

Find even MORE on Grainger.com®

GA GRAINGER APPROVED Raychem

Pre-Assembled Electric Heating Cables

- Self-regulating
- For indoor/outdoor use

Ready for installation and don't require cutting. Cables have either prestripped wires for hardwired connections or a NEMA plug. Used to protect pipes, roofs, and gutter systems against damage from freezing or ice buildup.



No. 13R101

Cable Length	Voltage	Watts/Ft. @ 40°F	NEMA Plug Config.	Brand	Item No.
6 ft	120V AC	6 W	5-15P	GA	13R101
	120V AC	6 W	5-15P	Frostguard by Raychem	45RK50
	240V AC	6 W	Hardwired	GA	13R096
	240V AC	6 W	5-15P	Frostguard by Raychem	45RK58
12 ft	120V AC	6 W	5-15P	Frostguard by Raychem	45RK51
	120V AC	6 W	5-15P	GA	13R102
	240V AC	6 W	Hardwired	GA	13R097
	240V AC	6 W	5-15P	Frostguard by Raychem	45RK59
18 ft	120V AC	6 W	5-15P	Frostguard by Raychem	45RK52
	120V AC	6 W	5-15P	GA	13R103
	240V AC	6 W	5-15P	Frostguard by Raychem	45RK60
24 ft	120V AC	6 W	5-15P	GA	13R104
	120V AC	6 W	5-15P	Frostguard by Raychem	45RK53
	240V AC	6 W	5-15P	Frostguard by Raychem	45RK61
	240V AC	6 W	Hardwired	GA	13R099
36 ft	120V AC	6 W	5-15P	Frostguard by Raychem	45RK54
50 ft	120V AC	6 W	5-15P	GA	13R105
	120V AC	6 W	5-15P	Frostguard by Raychem	45RK55
	240V AC	6 W	Hardwired	Raychem	2VEV9
75 ft	120V AC	6 W	5-15P	GA	13R106
	120V AC	6 W	5-15P	Frostguard by Raychem	45RK56
100 ft	120V AC	6 W	5-15P	GA	13R107
	120V AC	6 W	5-15P	Frostguard by Raychem	45RK57



Application Tape
No. 13R091



Gel-Filled End Seal Kit
No. 4YZ41



Plug-in Cord Set
No. 453A32

GA GRAINGER APPROVED Raychem

Accessories for Electric Heating Cables

Used to mount and wire electric heating cables.

Description	Includes	Brand	Item No.
Accessories for GA Self-Regulating			
Application Tape	(1) Roll Glass Cloth Tape 66 ft, and (10) Electric Trace Labels	GA	13R091
Downspout Hanger	(2) Tie Straps	GA	13R092
End Seal Kit	(2) End Seals	GA	13R095
Plug In Cord Set	(1) Plug and (1) End Seal and Materials of Either (1) Tee or (1) Splice	GA	453A32
Power Connection Kit	All Materials Needed for One Hard Wired Power Connection into Standard Junction Box, End Seal	GA	13R088
Roof Clips	(50) Roof Clips	GA	13R094
Splice and Tee Kit	(1) End Seal and Materials for Either (1) Tee or (1) Splice	GA	13R090
Accessories for Raychem Cut-to-Length			
Application Tape	(1) Roll Glass Cloth Tape 66 ftL, ½ in W, and (10) Electric Trace Labels	Raychem	4E521
Downspout Hanger	(2) Tie Straps	Raychem	5JC41
Gel Filled End Seal Kit	(2) End Seals	Raychem	4YZ41
Permanent Power Connection Kit	All Materials Needed for One Hard Wired Power Connection into Standard Junction Box, End Seal	Raychem	4E519
Plug In Cord Set for 120V	All Materials Needed for One 120V Plug-in Power Connection, End Seal	Raychem	4DC48
Roof Clips	(10) Roof Clips	Raychem	5JC37
Roof Clips	(50) Roof Clips	Raychem	5JC39
Splice and Tee Kit	(1) End Seal and Materials for Either (1) Tee or (1) Splice	Raychem	4DC50

BriskHeat® GA GRAINGER APPROVED Raychem

Cut-to-Length Electric Heating Cables

Packaged in bulk so they can be cut to the length needed. Accessories are required for mounting and wiring. Used on pipes, roofs, and gutter systems to prevent freezing or ice buildup.



No. 4E515

Cable Length	Voltage	Watts/ Ft. @ 40°F	NEMA Plug Config.	Brand	Indoor/ Outdoor Item No.	Indoor Only Item No.
Self-Regulating						
50 ft	120V AC	6 W	5-15P	Briskheat	40PN15	—
	120V AC	6 W	Hardwired	GA	13R084	13R080
	120V AC	6 W	Hardwired	Raychem	2VEV8	2VEV6
	240V AC	6 W	Hardwired	GA	13R086	13R082
75 ft	120V AC	6 W	5-15P	Briskheat	40PN23	—
100 ft	120V AC	6 W	5-15P	Briskheat	40PN25	—
250 ft	120V AC	6 W	Hardwired	GA	13R085	13R081
	120V AC	6 W	Hardwired	Raychem	4E515	4E511
	240V AC	6 W	Hardwired	GA	13R087	13R083
	240V AC	6 W	Hardwired	Raychem	4E517	4E513
50 ft	240V AC	6 W	Hardwired	Raychem	—	2VEV7
250 ft	120V AC	4 W	Hardwired	GA	—	13R079
	120V AC	3 W	Hardwired	Raychem	—	6E895
Non-Regulating						
40 ft	120V AC	3 W	Hardwired	GA	—	6MJW8
100 ft	120V AC	3 W	Hardwired	GA	—	6MJX1
120 ft	120V AC	3 W	Hardwired	GA	—	6MJX2
140 ft	120V AC	3 W	Hardwired	GA	—	6MJX3
200 ft	120V AC	3 W	Hardwired	GA	—	6MJX6
320 ft	120V AC	3 W	Hardwired	GA	—	6MJX9
400 ft	120V AC	3 W	Hardwired	GA	—	6MJY1



No. 13R074

Raychem GA GRAINGER APPROVED

Cut-to-Length Electric Heating Cable Kits

- Self-regulating
- Hardwired

Include a roll of cable, a power connection kit, a splice and tee kit, and a roll of application tape. Cables can be cut to length as needed for each job. Used with pipes, roofs, and gutter systems.

Cable Length	Voltage	Watts/ Ft. @ 40°F	Includes	Brand	INDOOR ONLY Item No.	INDOOR/ OUTDOOR Item No.
100 ft	120V AC	3 W	Power Connection Kit, Splice and Tee Kit, Roll of Application Tape	Raychem	6E896	—
		4 W	(1) Roll of Cable, (2) 13R088 Power Connection Kits, (1) 13R090 Splice/ Tee Kit, (1) 13R091 Roll of Tape/Labels	GA	13R074	—
		6 W	(1) Roll of Cable, (2) 13R088 Power Connection Kits, (1) 13R090 Splice/ Tee Kit, (1) 13R091 Roll of Tape/Labels	GA	13R075	13R077
		6 W	Power Connection Kit, Splice and Tee Kit, Roll of Application Tape	Raychem	4E512	4E516
	240V AC	6 W	Power Connection Kit, Splice and Tee Kit, Roll of Application Tape	Raychem	4E514	—
		6 W	(1) Roll of Cable, (2) 13R088 Power Connection Kits, (1) 13R090 Splice/ Tee Kit, (1) 13R091 Roll of Tape/Labels	GA	13R076	13R078

Frost King Air Handler®

We Carry Pipe Insulation Wraps on Grainger.com

Continuous rolls of insulating material help cut heat loss on hot water pipes and help keep cold water pipes from sweating.



No. 48H488


No. 55KH88


No. 6DMH6


No. 2RA10


No. 2PY99


No. 1VNX8


No. 1VNX7

SENGOKU
AirKing Ventilation Products
Dayton

Portable Pedestal & Tower Electric Office Heaters

These heaters take up little floor space and are typically placed in office spaces and reception areas. Units use fan-forced heating.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Non-Oscillating										
420W	Mechanical Controls, Tip-Over Switch, Overheat Protection	Base	2	Beige, Gray	24 in	12 in	12 in	Sengoku	SM-G420A	**55KH88**
900W/1500W	Mechanical Controls, Programmable, Overheat Protection	Glide System Pivot	2	Black, Silver	24 15/16 in	6 1/2 in	16 1/16 in	Air King	8602	**6DMH6**
Oscillating										
900W/1500W	Mechanical Controls, Programmable, Remote Control, Overheat Protection	3-Prong Grounded Plug, Multi Function Remote Control	2	Gray	34 in	7 1/4 in	9 1/4 in	Air King	8566	**2RA10**
	Mechanical Controls, Programmable, Remote Control, Overheat Protection	3-Prong Grounded Plug, Multi Function Remote Control with (2) AAA Batteries	2	Gray	23 in	7 1/4 in	8 1/2 in	Air King	8132	**2PY99**
	Mechanical Controls, Programmable, Remote Control, Tip-Over Switch, Overheat Protection	(2) AAA Batteries, 2-Prong Polarized Plug, in Cool-Touch in Housing, Remote Control	2	Gray	16 7/8 in	7 1/2 in	8 in	Dayton	1VNX8	**1VNX8**
	Mechanical Controls, Tip-Over Switch, Overheat Protection	2-Prong Polarized Plug, in Cool-Touch in Housing, Non-Slip Rubber Feet	2	Gray	16 7/8 in	7 1/2 in	8 in	Dayton	1VNX7	**1VNX7**


No. 53TY91


No. 53TY90

Dayton

Portable Radiator-Style Electric Office Heaters

Heating element is contained in an oil-filled radiator to provide consistent warmth and to give off residual heat even after the unit is shut off. Heaters use convection-style heating and don't have moving parts, so they operate quietly. Units have tip-over switches and will shut off automatically if knocked over.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Item No.
1500W	Mechanical Controls, Programmable, Remote Control, Tip-Over Switch, Overheat Protection	Adjustable Thermostat, Heavy Duty Casters, Handle, Digital LED Display, (2) AAA Batteries	2	Black	25 1/4 in	14 1/4 in	11 in	**53TY91**
	Mechanical Controls, Tip-Over Switch, Overheat Protection	Adjustable Thermostat, Heavy Duty Casters, Handle	3	Gray	25 1/4 in	14 1/4 in	11 in	**53TY90**


No. 4NHG9


No. 1DKW3


No. 181X32


No. 1VNY2

SENGOKU
QMARK
COZY
Dayton

Portable Flat Panel Electric Office Heaters

Typically placed under desks for personal comfort heating. Heaters use radiant heat to efficiently and silently heat people and objects without having to warm the ambient air.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
150W	Mechanical Controls, Tip-Over Switch, Overheat Protection	Supporting Legs	1	Blue	15 in	21 in	1 in	Sengoku	SP160	**4NHG9**
170W	Mechanical Controls, Tip-Over Switch, Overheat Protection	3-Prong Grounded Plug, Floor Stand	1	White	15 in	22 in	1 in	Qmark	202SLB	**1DKW3**
200W	Mechanical Controls	Handle	2	Black	19 in	12 in	5/8 in	Cozy	CL-2	**181X32**
900W/1500W	Mechanical Controls, Overheat Protection	2-Prong Polarized Plug, Digital Display, in Cool-Touch in Housing, Non-Slip Rubber Feet	2	Gray	10 3/8 in	15 3/8 in	6 in	Dayton	1VNY2	**1VNY2**


No. 6DMH7


No. 3UG01


No. 1VNX4


No. 31TR35


No. 54UD13


No. 1EVG3

Portable Electric Baseboard Heaters

- 120VAC

Units plug into outlets instead of being hardwired to provide warm air wherever it's needed. They use either a finned metal heating element or an oil-filled one and work by convection for spot or supplemental heat. They position along a wall's baseboard in small areas like offices or bedrooms. Integral thermostat included.

Wattage Output	Key Features	NEMA Plug Config.	No. of Heat Settings	Housing Color	Overall Length	Overall Height	Overall Depth	Brand	Mfr. Model	Item No.
Commercial Grade, Convection										
1500W	Programmable, Tip-Over Switch, Tamper Resistant, Overheat Protection	5-15P	1 Plus Auto	White	39 ¾ in	9 in	5 ½ in	Air King	8620	**6DMH7**
Residential Grade, Convection										
750W/1500W	Programmable, Overheat Protection	1-15P	2	Black	33 1⁄16 in	8 7⁄16 in	5 ¼ in	GA	12H977	**12H977**
1000W/1500W	Overheat Protection	5-15P	2	White	45 in	7 ½ in	5 ½ in	Dayton	3UG01	**3UG01**
1500W	Overheat Protection	1-15P	1	Gray, White	38 ⅞ in	9 1⁄16 in	5 1⁄16 in	Dayton	1VNX4	**1VNX4**
	Overheat Protection	5-15P	1	White	48 in	5 ¼ in	7 ½ in	Tpi Corp.	483 TM	**31TR35**
	Programmable, Overheat Protection	1-15P	1	Gray, White	38 ⅞ in	9 1⁄16 in	5 1⁄16 in	Dayton	1EVG2	**1EVG2**
	Tip-Over Switch, Overheat Protection	5-15P	1	White	58 in	8 ⅜ in	6 in	Dayton	54UD13	**54UD13**
Residential Grade, Fan Forced										
750W/1500W	Overheat Protection	1-15P	2	Gray, White	27 ½ in	15 ¼ in	7 in	Dayton	1EVG3	**1EVG3**

Portable Electric Heated Floor Mats

Typically placed at the entrance to offices and other buildings to melt snow and ice and prevent people from slipping. Can also be placed on the floor at a desk or workspace for personal comfort heating. Mats have a quiet internal heating element that's protected with a GFCI integrated in the power cord.

Wattage Output	No. of Heat Settings	Color	Overall Length	Overall Width	Overall Depth	Mfr. Model	Item No.
55W/105W	1	Black	18 in	12 ⅜ in	1 ¾ in	TT	**181X29**
60W	1	Gray	17 ¾ in	17 ¾ in	¼ in	CT	**181X33**
60W/120W	1	Black	22 15⁄16 in	13 15⁄16 in	1 1⁄16 in	FW	**181X30**
135W	1	Black	36 ¼ in	16 in	¼ in	FWB	**181X31**
240W	1	Black	35 in	33 in	½ in	ICE-SNOW	**35WX79**


No. 181X29


No. 35WX79


No. 3VU37


No. 1VNW9


No. 35WX78


No. 402M62


No. 623L03


No. 3DZR7

Portable Electric Desk Heaters

Use convection or fan-forced air to quickly warm an area after a few minutes of operation. Typically placed on desks, work surfaces, or floors to provide supplemental heat to a room or for an individual.


No. 16D138


No. 12H976


No. 1VNX1

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Non-Oscillating										
650W/1000W/1500W	Mechanical Controls, Overheat Protection	3-Prong Grounded Plug, Back up Thermal Fuse	2	Black	5 ½ in	4 ¼ in	7 in	Dayton	3VU37	**3VU37**
	Mechanical Controls, Tip-Over Switch, Overheat Protection	2-Prong Polarized Plug, Handle	3	Gray	10 in	7 ⅝ in	7 ½ in	Dayton	1VNW9	**1VNW9**
750W	Mechanical Controls, Remote Control, Tip-Over Switch, Overheat Protection	Handle	2	Black	11 in	7 ½ in	7 ½ in	Cozy	ESH	**35WX78**
750W/1500W	Mechanical Controls, Overheat Protection	Fold Down Handle, Two-Stage Thermostat	2	Gray, White	11 ½ in	10 ¼ in	6 in	Dayton	402M62	**402M62**
	Mechanical Controls, Programmable, Tip-Over Switch, Overheat Protection	—	2	Black	11 ⅞ in	11 ⅝ in	9 3⁄16 in	Vornado	EH1-0104-06	**623L03**
900W/1500W	Mechanical Controls, Overheat Protection	3-Prong Grounded Plug, Close Mesh Blower Guard	2	Gray	11 ¾ in	6 ¾ in	8 ¾ in	Air King	8945	**3DZR7**
	Mechanical Controls, Programmable, Tip-Over Switch, Overheat Protection	3-Prong Grounded Plug, Onboard Cord Storage	2	Silver	16 9⁄16 in	12 15⁄16 in	16 ¾ in	Air King	8101	**16D138**
1500W	Mechanical Controls, Programmable, Remote Control, Tip-Over Switch, Overheat Protection	3-Prong Grounded Plug, Automatic Thermostat, LED Display, Remote Control "Cool-Touch" Housing, (2) AAA Batteries	2 & Auto	Brown	15 7⁄16 in	10 ⅝ in	12 ⅝ in	GA	12H976	**12H976**
Oscillating										
900W/1500W	Mechanical Controls, Tip-Over Switch, Overheat Protection	2-Prong Polarized Plug	2	Gray	10 ¾ in	8 ⅜ in	7 ⅝ in	Dayton	1VNX1	**1VNX1**


No. 1DKX3


No. 3VU33


No. 3VU34


No. 55VL95


No. 32MY65

Portable Standard Electric Jobsite & Garage Heaters

Tubular heating element provides high-efficiency heating. Units use fan-forced air. Heaters are protected with an internal thermal cutout that shuts off the heater if it overheats and can be manually reset when the temperature returns to normal. Unit-mounted thermostat included.

Wattage Output	Voltage	NEMA Plug Config.	Air Temp. Rise	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
0.6kW/0.9kW/1.5kW	120V AC	5-15P	—	11 3/8 in	11 3/4 in	11 9/16 in	Air King	8900	1DKX3
	120V AC	5-15P	140 °F	15 in	11 1/2 in	11 in	Dayton	3VU31	3VU31
0.75kW/0.9kW/1.5kW	120V AC	5-15P	72 °F	15 in	11 in	12 in	Markel Products	198-TMC	31TR31
0.95kW/1.5kW	120V AC	5-15P	69 °F	10 in	11 1/4 in	7 in	Tpi Corp.	178-TMC	31TR32
1.3kW/1.5kW	120V AC	5-15P	67 °F	16 in	10 in	9 1/2 in	Tpi Corp.	188-TASA	31TR33
	120V AC	5-15P	170 °F	16 in	8 in	10 in	Dayton	3VU33	3VU33
1.5kW	120V AC	5-15P	74° to 119°F	14 in	12 in	12 in	Pro-Temp	PT-515-120	32MY65
3kW	208/240V AC	L6-20P	89° to 140°F	16 in	13 in	14 1/2 in	Pro-Temp	PT-53-240	32MY66
3kW/4kW	208/240V AC	6-30P	85 °F	14 in	10 3/4 in	10 3/4 in	Dayton	3VU34	3VU34
	208/240V AC	6-20P	48 °F	17 1/2 in	13 1/2 in	11 1/2 in	Fostoria	HF684-TC	55VL95
3.6kW/4.8kW	208/240V AC	6-30P	95 °F	14 in	10 3/4 in	10 3/4 in	Dayton	3VU35	3VU35
4.2kW/5.6kW	208/240V AC	6-30P	67 °F	17 1/2 in	13 1/2 in	11 1/2 in	Fostoria	HF686-TC	55VL96
	208/240V AC	6-30P	105 °F	15 7/8 in	11 1/2 in	11 1/2 in	Dayton	3VU36	3VU36


No. 52JP79


No. 20HN58


No. 49EL86


No. 1RKT4

Portable Salamander Electric Jobsite & Garage Heaters

Use fan-forced air to provide clean, odor-free tempered heat, which raises the area's temperature by a specified amount. Units heat enclosed spaces. Automatic overheat protection prevents damage to the unit. Units also have an option to be used as a fan. Built-in thermostat included.

Wall-Mounting Brackets—Convert salamander heaters for wall- or ceiling-mount with horizontal air flow. Bottom of heater must be at least 6 ft. from the floor.

Field-Installed Cable Kits—Leads are terminated with #10 ring terminals. Cord grip (connector) is included.

Wattage Output	Voltage	Phase	NEMA Plug Config.	Air Temp. Rise	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters										
6kW	208/240V AC	1	14-30P	100 °F	17 in	12 in	20 in	Heat Wagon	P600	52JP79
9kW	208/240V AC	1	14-50P	100 °F	18 in	12 in	23 in	Heat Wagon	P900	52JP80
10kW	240V AC	1	6-50P	35 °F	39 in	23 1/4 in	21 5/16 in	Fostoria	FES-0924-1C	20HN58
	240V AC	1	14-50P	39 °F	39 in	23 1/4 in	21 5/16 in	Fostoria	FES-1024-1CA	3LY28
	240V AC	1	Hardwired	35° to 88°F	40 in	30 in	24 in	Qmark	MEDH1021CKA	49EL86
	240V AC	1	Hardwired	90 °F	38 1/2 in	28 3/4 in	21 1/2 in	Dayton	1RKT5	1RKT5
12kW/18kW	208/240V AC	1	Hardwired	100 °F	20 in	14 in	30 in	Heat Wagon	P1800-1	5PFX2
	208/240V AC	3	Hardwired	70 °F	20 in	14 in	30 in	Heat Wagon	P1800D	52JP81
	208/240V AC	3	Hardwired	100 °F	20 in	14 in	30 in	Heat Wagon	P1800-3	5PFX3
15kW	208V AC	3	Hardwired	35° to 88°F	40 in	30 in	24 in	Qmark	MEDH1583A	49EL87
	208V AC	3	Hardwired	59 °F	39 in	23 1/4 in	21 5/16 in	Fostoria	FES-1520-3A	3UD73
	208V AC	3	Hardwired	116 °F	38 1/2 in	28 3/4 in	21 1/2 in	Dayton	1RKT9	1RKT9
	240V AC	1	Hardwired	57 °F	38 1/2 in	28 in	21 9/16 in	Dayton	1RKT3	1RKT3
	240V AC	1	Hardwired	59 °F	39 in	23 1/4 in	23 5/16 in	Fostoria	FES-1524-1A	3LY27
	240V AC	1	Hardwired	59° to 141°F	40 in	30 in	24 in	Qmark	MEDH1521A	49EL88
	240V AC	3	Hardwired	59 °F	39 in	23 1/4 in	21 5/16 in	Fostoria	FES-1524-3E	3E216
	240V AC	3	Hardwired	59° to 141°F	40 in	30 in	24 in	Qmark	MEDH1523A	49EL89
	240V AC	3	Hardwired	116 °F	38 1/2 in	28 3/4 in	21 1/2 in	Dayton	1RKT2	1RKT2
	480V AC	3	Hardwired	59 °F	39 in	23 1/4 in	21 5/16 in	Fostoria	FES-1548-3E	3E217
	480V AC	3	Hardwired	70° to 172°F	40 in	30 in	24 in	Qmark	MEDH1543A	49EL90
	480V AC	3	Hardwired	116 °F	38 1/2 in	28 3/4 in	21 1/2 in	Dayton	1RKT4	1RKT4
16kW/32kW/40kW	440/480V AC	3	Hardwired	100 °F	25 in	20 in	46 in	Heat Wagon	P4000	5PFX4
24kW/48kW/60kW	440/480V AC	3	Hardwired	100 °F	25 in	20 in	46 in	Heat Wagon	P6000	5PFX5
30kW	480V AC	3	Hardwired	85 °F	39 in	23 1/4 in	25 5/16 in	Fostoria	FES-3048-3A	5E168
	480V AC	3	Hardwired	160 °F	38 1/2 in	28 3/4 in	22 in	Dayton	1RKU2	1RKU2
	600V AC	3	Hardwired	35° to 89°F	38 1/2 in	44 in	25 1/2 in	Qmark	SDH3093	2HDA3
45kW	480V AC	3	Hardwired	64 °F	39 in	23 1/4 in	45 1/2 in	Fostoria	FES-4548-3	5JNK8
48kW	600V AC	3	Hardwired	59° to 142°F	38 1/2 in	44 in	25 1/2 in	Qmark	SDH4893	2HDA5
60kW	480V AC	3	Hardwired	74 °F	39 1/4 in	23 in	45 1/2 in	Fostoria	FES-6048-3	55VL73

	Max. Sq. Ft.*	Max. Ceiling Height
Sizing Chart		
9 to 10 kW	750 up to 1000	12 ft.
15 kW	1000 up to 1500	15 ft.
30 kW	1500 up to 2000	18 ft.
45 kW	2000 up to 2400	24 ft.
60 kW	2400 up to 3600	36 ft.

** Based on using one single unit.*

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Wall Mounting Bracket	Dayton Electric Salamander Heaters: 1RKT2C, 1RKT3C, 1RKT4C, 1RKT5C, 1RKT9C, 1RKU2C	Dayton	1RKU1	1RKU1
	Fostoria, FES-09, FES-10, FES-15 & FES-30 Model Salamander Heaters	Fostoria	WMK-FES	3WB11
Field Installed Cable Kit, 4/3 SO	Mfr. No. FES-1524-1A, YES-1524-1A	Fostoria	SO 4/3	3LY29
Field Installed Cable Kit, 6/4 SO	3UD73, 3E216, 5E168, 49EL87, 49EL89	Fostoria	SO 6/4	3LY30
Field Installed Cable Kit, 12/4 SO	Mfr. No. FES-1548-3E, YES-1548-3E, FES-1560-3A, YES-1560-3A	Fostoria	SO 12/4	3LY32


No. 3NPV5


No. 2ELP2


No. 49K236

Portable Electric Ducted & Tent Heaters

Used for heating tents and other confined work areas. No. 49K236 is variable-speed.

Heating Capacity	Wattage Output	Voltage	NEMA Plug Config.	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
For Use With Work Tents										
5,115 BtuH	1,500 W	120V AC	5-15P	115 cfm	12 in	8 in	12 in	Allegro	9401-50	3NPV5
For Use With SVH-3 Ducting										
23,900 BtuH	3,500 W	240V AC	L6-30P	1,000 cfm	16 in	15 1/2 in	27 1/2 in	Air Systems International	SVF-7KW-8	2ELP2
For Use With Structural Drying, Sanitizing, and Emergency Heating										
37,000 BtuH	—	200/240V AC	Requires Cord	475 cfm	18 in	11 in	30 in	Omnitec Design Inc.	OVH230	49K236
37,000 BtuH	—	200/240V AC	Requires Cord	475 cfm	18 in	11 in	30 in	Omnitec Design Inc.	OVH230RT	49K237


No. 45EM35


No. 45EM40

Portable Infrared Radiant Electric Jobsite & Garage Heaters

Efficiently and quietly warm people and objects without having to bring up the ambient air temperature. Provide spot heating to enclosed and semiprotected areas. Also used to cure a variety of finishes with a lower chance of blistering or overheating than other types of heaters.

Note: Not for use in hazardous or chemical-laden atmospheres, or unprotected wet locations. Heaters should be used outdoors temporarily only.

Multiple heaters may be required to achieve required watts for desired coverage.

Watts	Non-Protected Heated Area (sq. ft.) Below 35°F	Non-Protected Heated Area (sq. ft.) Above 35°F	Semi-Protected Heated Area (sq. ft.) Below 35°F	Semi-Protected Heated Area (sq. ft.) Above 35°F
1450	25	36	40	50
3150	64	75	90	125
4300	85	100	120	150
9500	192	225	270	375


No. 5JNK7

Wattage Output	Voltage	Phase	NEMA Plug Config.	Beam Pattern	Overall Height	Overall Width	Mfr. Model	Item No.
Stationary, Flat Panel Emitter								
1450W	120V AC	1	5-15P	60 °	13 ½ in	11 ½ in	FSP-1412-1C	**45EM35**
3150W	240V AC	1	Hardwired	60 °	13 ½ in	11 ½ in	FSP-3124-1	**45EM36**
3150W	480V AC	1	Hardwired	60 °	13 ½ in	11 ½ in	FSP-3148-1	**45EM37**
Wheeled, Flat Panel Emitter, Includes Steel Cart								
4300W	240V AC	1 or 3	Hardwired	60 °	17 in	19 ⅞ in	FSP-4324-3	**45EM38**
4300W	480V AC	1 or 3	Hardwired	60 °	17 in	19 ⅞ in	FSP-4348-3	**45EM39**
9500W	240V AC	1 or 3	Hardwired	60 °	19 in	19 ⅞ in	FSP-9524-3	**45EM40**
9500W	480V AC	1 or 3	Hardwired	60 °	19 in	19 ⅞ in	FSP-9548-3	**45EM41**
Wheeled, Quartz Lamp, Includes Casters and Hinged Panels to Direct Infrared Heat								
4800W	240V AC	1 or 3	Hardwired	—	30 in	44 ⅝ in	HP-5-QT	**3HML1**
6400W	240V AC	1 or 3	Hardwired	—	30 in	66 ⅝ in	HP-6-QT	**3HML2**
11,200W	240V AC	1 or 3	Hardwired	—	30 in	66 ⅝ in	HP-11-QT	**3HML3**
Wheeled, Quartz Tube, Includes Adjustable Stand								
1500W	120V AC	1	5-15P	60 °	72 in	53 in	PCH-48C	**5JNK7**

Description	Mfr. Model	Item No.
Cart		
For Use With Mfr. No. FSP-43 and FSP-95 Infrared Portable Heaters	FHK-1	**4E527**
Field Installed Cable Kits-25 ft, 600V AC Rated, Include Cable Grip, Wire Sleeves		
8/4 SO, For Use With Mfr. No. FSP-9520-3	SO 8/4	**3LY31**
14/3 SO, For Use With Mfr. No. FSP-3120-1, FSP-3124-1, FSP-4324-3, FSP-4327-1, FSP-9557-3	SO 14/3	**3LY34**
14/4 SO, For Use With Mfr. No. FSP-4320-3, FSP-4324-3, FSP-4348-3, FSP-4357-3, FSP-9548-3, FSP-9557-3-3	SO 14/4	**3LY35**

Description	Voltage	Mfr. Model	Item No.
Safety Switches for Flat Panel Emitter Heaters			
Disconnect Switch, For Use With All FSA/FSS & FSP Models	600V AC	DC-SK-1	**2KDC8**
Tip Over Switch, For Use With FSP 43/95kW Models	—	TO-SK-1	**2KDC9**


No. 14C436


No. 14C455

Under-Floor Electric Heating Systems

Provide concentrated warmth at ground level. Systems consist of mats with built-in heating coils that are positioned between the subfloor and finished floor. Easy to install and used in renovations or new construction. Compatible with most subfloors. Remote-mounted thermostat required (sold separately).

For Ceramic Tile, Marble, Porcelain, Stone, Carpet, Vinyl Tile—Can be installed under carpet, vinyl, laminate, and glued-down floors with self-leveling cement. Include factory-attached 10-ft. lead wire.

For Laminate, Wood—Suitable for floating and glue-down laminate, wood, and engineered wood floors; no cement required. Include 20-ft. lead wire.

Overall Length	Overall Width	Heating Area	Voltage	Mfr. Model	Item No.
For Ceramic Tile, Marble, Porcelain, Stone, Carpet, Vinyl Tile					
5 ft	18 in	7.5 sq ft	120V AC	WW5-120	**14C436**
7 ft	18 in	10.5 sq ft	120V AC	WW7-120	**14C437**
10 ft	18 in	15 sq ft	120V AC	WW10-120	**14C438**
10 ft	18 in	15 sq ft	240V AC	WW10-240	**14C446**
14 ft	18 in	21 sq ft	240V AC	WW14-240	**14C447**
15 ft	18 in	22.5 sq ft	120V AC	WW15-120	**14C439**
20 ft	18 in	30 sq ft	120V AC	WW20-120	**14C440**
20 ft	18 in	30 sq ft	240V AC	WW20-240	**14C448**
30 ft	18 in	45 sq ft	120V AC	WW30-120	**14C441**
30 ft	18 in	45 sq ft	240V AC	WW30-240	**14C449**
40 ft	18 in	60 sq ft	120V AC	WW40-120	**14C442**
40 ft	18 in	60 sq ft	240V AC	WW40-240	**14C450**
50 ft	18 in	75 sq ft	120V AC	WW50-120	**14C443**
60 ft	18 in	90 sq ft	120V AC	WW60-120	**14C444**
60 ft	18 in	90 sq ft	240V AC	WW60-240	**14C451**
80 ft	18 in	120 sq ft	240V AC	WW80-240	**14C452**
100 ft	18 in	150 sq ft	240V AC	WW100-240	**14C453**
120 ft	18 in	180 sq ft	240V AC	WW120-240	**14C454**
For Laminate, Wood					
5 ft	18 in	7.5 sq ft	120V AC	1505-120	**14C455**
5 ft	36 in	15 sq ft	120V AC	3005-120	**14C457**
5 ft	36 in	15 sq ft	240V AC	3005-240	**14C461**
10 ft	18 in	15 sq ft	120V AC	1510-120	**14C456**
10 ft	18 in	15 sq ft	240V AC	1510-240	**14C459**
10 ft	36 in	30 sq ft	120V AC	3010-120	**14C458**
10 ft	36 in	30 sq ft	240V AC	3010-240	**14C462**
20 ft	18 in	30 sq ft	240V AC	1520-240	**14C460**
20 ft	36 in	60 sq ft	240V AC	3020-240	**14C463**

Description	Mfr. Model	Item No.
Accessories		
Electric Floor Heater Thermostat, 120V AC, Includes Floor Sensor	MTC-2991	**14C467**
Electric Floor Heater Thermostat, 240V AC, Includes Floor Sensor	MTC-1991	**14C468**
InstAlarm Monitor, Includes 9V Battery, Screw Driver, Instructions	INSTALRM	**14C470**
TT Deluxe Install Kit, ⅜ in Plastic Trowel, InstAlarm Monitor, Multimeter, Ultra Light Kneepads	IK-TAMK	**14C471**
Plastic Trowel, ⅜ in Square Notch	TRWL3838	**20UG51**
Heavy Duty Plastic Trowel, ½ in X ⅜ in Notch	TRWL3812	**20UG52**

Kickspace Electric Heaters


No. 2YV10

- Black grille color

Recess in under-cabinet spaces and provide supplemental heat where space is limited, such as kitchens, bathrooms, and checkout counters. They wire into an opening at the base of a cabinet. Can be controlled with a required surface-mount thermostat or a wall thermostat (sold separately).

Wattage Output	Voltage	Rough-In Width	Rough-In Height	Rough-In Depth	Brand	Mfr. Model	Item No.
Heaters							
562W/1125W/750W/1500W	208/240V AC	14 ¼ in	3 ½ in	8 ⅞ in	Dayton	2YV11	**2YV11**
750W/1000W	208/240V AC	14 ½ in	3 ½ in	8 ¼ in	Cadet	UC102B	**31LK47**
750W/1500W	120V AC	14 ¼ in	3 ½ in	8 ⅞ in	Dayton	2YV10	**2YV10**
1000W	120V AC	14 ½ in	3 ½ in	8 ¼ in	Cadet	UC101B	**31LK48**

Description	For Use With	Brand	Mfr. Model	Item No.
Mechanical Thermostats				
120/240V AC, 45° to 85°F, Single Pole	2YV10, 2YV11	Dayton	2YV12	**2YV12**
120/208/240V AC, 40° to 85°F, Single Pole	Mfr. No. UC101B, UC102B	Cadet	UCT1B	**31LK49**
120/208/240V AC, 40° to 85°F, Double Pole	Mfr. No. UC101B, UC102B	Cadet	UCT2B	**31LK50**

Drop-In Electric Floor Heater


No. 2YU87

- Gray grille color

Installs in an opening in the floor and provides supplemental heat in drafty areas with limited space. Lowers into the floor and mounts either parallel or perpendicular to the floor joists. Provides floor-level warmth without requiring floor renovation. Can be controlled with a required surface-mount thermostat or a wall thermostat (sold separately).

Wattage Output	Voltage	Rough-In Width	Rough-In Height	Rough-In Depth	Item No.
Heater					
562W/1125W/750W/1500W	208/240V AC	7 ¼ in	14 in	6 ⅝ in	**2YU87**

Description	For Use With	Item No.
Mechanical Thermostat		
120/240V AC, 55° to 115°F, Single Pole	2YU86, 2YU87	**2YU88**



Commercial
No. 3KB35



Commercial
Slope Top
No. 3UH08



Residential
No. 31LK63

Dayton
QMARK
CADET
INVITING WARMTH



Receptacle
No. 3UG89

Standard Electric Baseboard Heaters

- Overheat protection

Work by convection and have a heating element encased in a metal sheath surrounded by aluminum fins to transfer heat. Install along baseboards to warm rooms and small spaces in buildings such as multifamily housing or offices. Thermostat required (sold separately).

Commercial Grade, Conventional Top—Feature multiple knockouts at each end, wiring pigtails, built-in cable clamps, and installation mounting guides.

Commercial Grade, Slope Top—45° slope-top discourages use of heater as a shelf or step. Mount directly to the floor. Carpeting can be brought up to the front of the unit.

Residential Grade, Conventional Top—Multiple knockouts at each end. Includes wiring pigtails.

Wattage Output	Voltage	Housing Color	Overall Length	Overall Height	Overall Depth	Mounting Type	Brand	Mfr. Model	Item No.
Commercial Grade, Conventional Top									
282W/376W/500W	208/240/277V AC	White	30 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENC4	**3ENC4**
423W/564W/750W	208/240/277V AC	White	36 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENC5	**3ENC5**
500W	120V AC	White	30 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENA5	**3ENA5**
500W	208V AC	White	30 in	6 ¾ in	2 ½ in	Floor	Dayton	3ENC1	**3ENC1**
564W/752W/1000W	208/240/277V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB35	**3KB35**
705W/940W/1250W	208/240/277V AC	White	60 in	6 ¾ in	2 ½ in	Floor	Dayton	3KB36	**3KB36**
750W	120V AC	White	36 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENA6	**3ENA6**
750W	208V AC	White	36 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENC2	**3ENC2**
846W/1128W/1500W	208/240/277V AC	White	72 in	6 ¾ in	2 ½ in	Floor	Dayton	3KB37	**3KB37**
1000W	120V AC	White	48 in	6 ¾ in	2 ½ in	Floor	Dayton	3ENA7	**3ENA7**
1000W	208V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB39	**3KB39**
1128W/1504W/2000W	208/240/277V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB38	**3KB38**
1250W	120V AC	White	60 in	6 ¾ in	2 ½ in	Floor	Dayton	3ENA8	**3ENA8**
1250W	208V AC	White	60 in	6 ¾ in	2 ½ in	Floor	Dayton	3KB40	**3KB40**
1410W/1880W/2500W	208/240/277V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENC6	**3ENC6**
1500W	120V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENA9	**3ENA9**
1500W	208V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB41	**3KB41**
2000W	208V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB42	**3KB42**
2500W	208V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3ENC3	**3ENC3**
Commercial Grade, Slope Top									
375W/500W	208/240V AC	Beige	28 in	10 in	3 ¼ in	Floor	Qmark	3UH08	**3UH08**
750W/1000W	208/240V AC	Beige	48 in	10 in	3 ¼ in	Floor	Qmark	3UH10	**3UH10**
1125W/1500W	208/240V AC	Beige	72 in	10 in	3 ¼ in	Floor	Qmark	3UH11	**3UH11**
1500W/2000W	208/240V AC	Beige	96 in	10 in	3 ¼ in	Floor	Qmark	3UH12	**3UH12**
1875W/2500W	208/240V AC	Beige	120 in	10 in	3 ¼ in	Floor	Qmark	3UH13	**3UH13**
Residential Grade, Conventional Top									
150W/563W	208/240V AC	White	36 in	6 ¾ in	2 ½ in	Wall	Cadet	3F750W	**31LK58**
262W/350W	208/240V AC	White	24 in	6 ¾ in	2 ½ in	Wall	Cadet	2F350W	**31LK56**
375W/500W	208/240V AC	White	30 in	6 ¾ in	2 ½ in	Wall	Cadet	2F500W	**31LK57**
376W/500W	208/240V AC	White	30 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG82	**3UG82**
500W	120V AC	White	30 in	6 ¾ in	2 ½ in	Floor	Dayton	3UG76	**3UG76**
500W	120V AC	White	30 in	6 ¾ in	2 ½ in	Wall	Cadet	2F500-1W	**31LK63**
564W/750W	208/240V AC	White	36 in	6 ¾ in	2 ½ in	Floor	Dayton	3UG83	**3UG83**
750W	120V AC	White	36 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG77	**3UG77**
750W/1000W	208/240V AC	White	48 in	6 ¾ in	2 ½ in	Wall	Cadet	4F1000W	**31LK59**
752W/1000W	208/240V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG84	**3UG84**
937W/1250W	208/240V AC	White	60 in	6 ¾ in	2 ½ in	Wall	Cadet	5F1250W	**31LK60**
940W/1250W	208/240V AC	White	60 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG85	**3UG85**
1000W	120V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG78	**3UG78**
1000W	120V AC	White	48 in	6 ¾ in	2 ½ in	Wall	Cadet	4F1000-1W	**31LK64**
1125W/1500W	208/240V AC	White	72 in	6 ¾ in	2 ½ in	Wall	Cadet	6F1500W	**31LK61**
1128W/1500W	208/240V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG86	**3UG86**
1250W	120V AC	White	60 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG79	**3UG79**
1500W	120V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG80	**3UG80**
1500W	120V AC	White	72 in	6 ¾ in	2 ½ in	Wall	Cadet	6F1500-1W	**31LK65**
1500W/2000W	208/240V AC	White	96 in	6 ¾ in	2 ½ in	Wall	Cadet	8F2000W	**31LK62**
1504W/2000W	208/240V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG87	**3UG87**
1800W/2500W	208/240V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	4TM76	**4TM76**

Item	Voltage	Color	For Use With	Brand	Item No.
Accessories					
Receptacle, Duplex	120V AC	White	Residential Baseboard Heaters	Dayton	**3UG89**
Inside Corner Section	—	White	Residential Baseboard Heaters	Dayton	**3UG88**



No. 3UG30

Dayton

Oil-Filled Electric Baseboard Heaters

- White housing
- Floor mount
- Overheat protection

Oil-filled heating element minimizes temperature swings and provides residual heat even after the unit is shut off. Units use convection heating. Install along baseboards to warm rooms and small spaces in buildings such as multifamily housing or offices. Hardwired and require a thermostat to control heat settings (sold separately).

Wattage Output	Voltage	Overall Length	Overall Height	Overall Depth	Item No.
375W/500W	208/240V AC	28 in	8 ⅜ in	3 in	**3UG30**
500W	120V AC	28 in	8 ⅜ in	3 in	**3EMZ8**
562W/750W	208/240V AC	34 in	8 ⅜ in	3 in	**3UG31**
750W	120V AC	34 in	8 ⅜ in	3 in	**3EMZ9**
750W/1000W	208/240V AC	46 in	8 ⅜ in	3 in	**3UG27**
938W/1250W	208/240V AC	58 in	8 ⅜ in	3 in	**3ENA4**
1000W	120V AC	46 in	8 ⅜ in	3 in	**3ENA1**
1125W/1500W	208/240V AC	70 in	8 ⅜ in	3 in	**3UG28**
1250W	120V AC	58 in	8 ⅜ in	3 in	**3ENA2**
1500W	120V AC	70 in	8 ⅜ in	3 in	**3ENA3**
1500W/2000W	208/240V AC	94 in	8 ⅜ in	3 in	**3UG29**



No. 31LK66



No. 3UG32



No. 19RA10

CADET INVITING WARMTH
Dayton
QMARK

Thermostats for Electric Baseboard Heaters

Control the temperature of standard and oil-filled electric baseboard heaters.

Thermostat Control Range	Voltage	No. of Poles	For Use With	Brand	Mfr. Model	Item No.
Unit-Mount						
40° to 85°F	120/208/240V AC	1	Baseboard Heaters	Cadet	BTF1W	**31LK66**
	120/208/240V AC	2	Baseboard Heaters	Cadet	BTF2W	**31LK67**
	120/208/240V AC	2	Hydronic Baseboard Heaters	Cadet	EBKNW	**31LK40**
40° to 100°F	120/208/240/277V AC	1	Residential Baseboard Heaters	Dayton	3UG90	**3UG90**
	120/208/240/277V AC	2	Hydronic Baseboard Heaters	Dayton	3UG32	**3UG32**
	120/208/240/277V AC	2	Residential Baseboard Heaters	Dayton	3UG91	**3UG91**
	120/277V AC	1	2500 Series Baseboard Heater	Qmark	TA1AW	**19RA18**
	120/277V AC	2	2500 Series Baseboard Heater	Qmark	TA2AW	**19RA10**
60° to 120°F	120/208/240V AC	2	Slope Top Baseboard Heaters	Qmark	3UH14	**3UH14**
Wall-Mount						
50° to 80°F	120/208/240/277V AC	1	Baseboard Heaters	Dayton	3UH07	**3UH07**
55° to 85°F	120/208/240/277V AC	2	Baseboard Heaters	Dayton	3UF74	**3UF74**

CADET INVITING WARMTH | Dayton

Compact Recessed Electric Wall Heaters

- Overheat protection
- Mechanical controls

Heat areas with limited installation or mounting space, like restrooms, bedrooms, hallways, or offices. Built-in thermostat. Find more wall heaters on Grainger.com®.

Wattage Output	Voltage	Phase	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Heaters									
Recessed Mounting									
750W/1000W	208/240V AC	1	White	10 1/8 in	8 in	4 in	Cadet	CSC102TW	**31LK51**
750W/1500W	120V AC	1	White	8 1/2 in	6 3/8 in	4 in	Dayton	447V30	**447V30**
1000W	120/240V AC	1	White	10 1/8 in	8 in	4 in	Cadet	CBC103TW	**31LK41**
	120V AC	1	White	10 1/8 in	8 in	4 in	Cadet	CSC101TW	**31LK54**
	120V AC	1	White	11 1/4 in	9 1/2 in	3 3/4 in	Dayton	3ENC7	**3ENC7**
1000W/1500W/1600W	120/208/240V AC	1 or 3	White	10 1/8 in	8 in	4 in	Cadet	CEC163TW	**31LK42**
1125W/1500W	208/240V AC	1	White	10 1/8 in	8 in	4 in	Cadet	CSC152TW	**31LK52**
1500W/2000W	208/240V AC	1	White	10 1/8 in	8 in	4 in	Cadet	CSC202TW	**31LK53**
	240/277V AC	1	White	11 1/4 in	9 1/2 in	3 3/4 in	Dayton	3ENC9	**3ENC9**
2000W	208V AC	1	White	11 1/4 in	9 1/4 in	3 3/4 in	Dayton	3ENC8	**3ENC8**
Surface and Recessed Mounting									
750W/1000W	208/240V AC	1	Gray	12 5/8 in	9 3/16 in	2 1/2 in	Dayton	5ZK66	**5ZK66**
750W/1500W	120V AC	1	White	11 1/4 in	9 1/4 in	3 3/4 in	Dayton	2HAD6	**2HAD6**
750W/1500W, 1000W/2000W	208/240V AC	1	White	11 1/4 in	9 1/2 in	3 3/4 in	Dayton	3WU90	**3WU90**
1000W	120V AC	1	Bronze	11 in	9 3/16 in	3 3/4 in	Dayton	2HAC4	**2HAC4**
	120V AC	1	Gray	12 1/2 in	9 1/4 in	2 1/2 in	Dayton	5ZK64	**5ZK64**
1000W/2000W	208V AC	1	White	11 in	9 3/16 in	3 3/4 in	Dayton	2HAD1	**2HAD1**
1125W/1500W	208/240V AC	1	White	8 1/2 in	6 3/8 in	4 in	Dayton	447V31	**447V31**
	240/277V AC	1	White	11 in	9 3/16 in	3 3/4 in	Dayton	2HAC9	**2HAC9**
1500W	120V AC	1	Bronze	11 1/4 in	9 1/4 in	3 3/4 in	Dayton	2HAC5	**2HAC5**
	120V AC	1	White	12 1/2 in	9 1/4 in	2 1/2 in	Dayton	5ZK68	**5ZK68**
1500W/2000W	208/240V AC	1	Bronze	11 in	9 3/16 in	3 3/4 in	Dayton	2HAC7	**2HAC7**
	208/240V AC	1	White	8 1/2 in	6 3/8 in	4 in	Dayton	447V32	**447V32**
	208/240V AC	1	White	12 5/8 in	9 3/16 in	2 1/2 in	Dayton	5ZK70	**5ZK70**
	240/277V AC	1	Bronze	11 1/4 in	9 1/4 in	3 3/4 in	Dayton	2HAC8	**2HAC8**
1800W	120V AC	1	Bronze	11 in	9 3/16 in	3 3/4 in	Dayton	2HAC6	**2HAC6**

Item	For Use With	Brand	Item No.
Accessories			
Mounting Frame	2HAC4, 2HAC5, 2HAC6, 2HAC7, 2HAC8, 2HAC9, 2HAD1	Dayton	**2HAD2**
		Dayton	**2HAD3**
		Dayton	**2HAD4**
	3ENC7, 3ENC8, and 3ENC9	Dayton	**4KA69**
	5ZK64, 5ZK66, 5ZK68, 5ZK70	Dayton	**5ZK72**
	CZ Series Wall Heaters, 447V30, 447V31, 447V32	Dayton	**470M92**
Retrofit Kit	447V30, 447V31, 447V32	Dayton	**470M93**


No. 31LK51


No. 2HAC4


No. 5ZK68

Dayton | QMARK | BROAN

Large Recessed Electric Wall Heaters

- Overheat protection
- Mechanical controls

Fan-forced heaters for areas like offices, reception rooms, family rooms, and other residential and small commercial spaces. Built-in thermostat. Find more wall heaters on Grainger.com®.

Wattage Output	Voltage	Phase	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Tamper-Resistant Unit-Mounted Thermostat									
Recessed Mounting									
1500W/3000W	277V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	3END5	**3END5**
Surface and Recessed Mounting									
1500W	120V AC	1	Bronze	18 1/4 in	14 3/8 in	3 7/8 in	Dayton	2HAD9	**2HAD9**
1500W/2000W, 2000W/4000W	240/277V AC	1	Bronze	18 1/4 in	14 3/8 in	3 7/8 in	Dayton	5E186	**5E186**
1500W/3000W, 2000W/4000W	208/240V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4404F	**39K908**
	208/240V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	5E184	**5E184**
	208/240V AC	1	White	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4404FNW	**39K907**
	208/240V AC	1	White	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	5E185	**5E185**
	240/277V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4407F	**39K906**
	240/277V AC	1	White	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4407FNW	**39K909**
	240/277V AC	1	White	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	5E187	**5E187**
1800W	120V AC	1	Bronze	18 1/4 in	14 3/8 in	3 7/8 in	Dayton	2HAE1	**2HAE1**
2000W/4000W	208V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4408F	**39K905**
	208V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	5E182	**5E182**
	208V AC	1	White	18 1/4 in	14 1/4 in	3 7/8 in	Qmark	AWH4408FNW	**39K904**
	208V AC	1	White	18 1/4 in	14 3/8 in	3 7/8 in	Dayton	5E183	**5E183**
	208V AC	3	Bronze	18 1/4 in	14 3/8 in	3 7/8 in	Dayton	3END6	**3END6**
	277V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	3END8	**3END8**
3600W/4800W	208/240V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	3END7	**3END7**
4800W	208V AC	1	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	3END9	**3END9**
	208V AC	3	Bronze	18 1/4 in	14 1/4 in	3 7/8 in	Dayton	3ENE1	**3ENE1**
Unit-Mounted Thermostat									
Recessed Mounting									
500W/750W/1000W	120/208/240V AC	1	White	7 3/4 in	10 1/4 in	3 3/4 in	Broan	198	**5EFR1**
750W/1500W, 1000W/2000W	208/240V AC	1	White	18 in	14 1/4 in	3 3/4 in	Broan	192	**5EFP9**
1500W/2000W	208/240V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3END2	**3END2**
1500W/3000W, 2000W/4000W	208/240V AC	1	White	18 in	14 1/4 in	3 3/4 in	Broan	194	**5EFR0**
2000W/4000W	208V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Dayton	3END1	**3END1**
3600W/4800W	208/240V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Dayton	3UF62	**3UF62**
Surface and Recessed Mounting									
1500W	120V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	2HAD7	**2HAD7**
	120V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	2HAD5	**2HAD5**
1500W/3000W	240V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UG55	**3UG55**
	277V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UF59	**3UF59**
	277V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Qmark	CWH3307F	**39K916**
1500W/3000W, 2000W/4000W	208/240V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UF60	**3UF60**
	208/240V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UG56	**3UG56**
	240/277V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UF61	**3UF61**
1800W	120V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	2HAD8	**2HAD8**
1800W/3600W, 2400W/4800W	208/240V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UG57	**3UG57**
3000W/4000W	208/240V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Qmark	CWH3404F	**39K912**
	240/277V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Qmark	CWH3407F	**39K914**
3600W/4800W	208/240V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Qmark	CWH3504F	**39K913**
	240/277V AC	1	White	18 1/4 in	14 5/8 in	3 7/8 in	Dayton	3UF63	**3UF63**
	240/277V AC	1	White	18 1/4 in	14 5/16 in	3 7/8 in	Qmark	CWH3507F	**39K915**


No. 3END5


No. 5EFP9


No. 39K913


No. 6PPC8


No. 13R108

Large Programmable Recessed Electric Wall Heaters

- Overheat protection
- Tamper-resistant
- Touchscreen interface

5/2-day programmable thermostat allows users to schedule or hold temperature. Units use fan-forced air to heat residential and light commercial spaces. Included remote control allows users to make temperature adjustments from anywhere in the room.

Wattage Output	Voltage	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Recessed Mounting								
200W/1500W	120V AC	Gray, White	17 3/8 in	12 in	3 3/4 in	Qmark	HT1502SS	**6PPC8**
250W/2000W	240V AC	Gray, White	17 3/8 in	12 in	3 3/4 in	Qmark	HT2024SS	**6PPC7**
4000W	208V AC	White	18 1/4 in	14 3/8 in	3 1/2 in	Dayton	400C60	**400C60**
Surface and Recessed Mounting								
900W/1800W	120V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR1802	**29HZ87**
	120V AC	Gray	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR1802AL	**29HZ95**
1800W/4000W	208V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSH04008	**13R108**
	240V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSH04004	**13R109**
	277V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSH04007	**13R110**
1800W/4800W	208V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4808	**29HZ84**
	208V AC	Gray	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4808AL	**29HZ92**
	240V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4804	**29HZ85**
	240V AC	Gray	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4804AL	**29HZ93**
	277V AC	White	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4807	**29HZ86**
	277V AC	Gray	18 3/16 in	14 1/4 in	3 1/8 in	Qmark	SSAR4807AL	**29HZ94**
4000W	240V AC	White	18 1/4 in	14 3/8 in	3 1/2 in	Dayton	400C58	**400C58**
	277V AC	White	18 1/4 in	14 3/8 in	3 1/2 in	Dayton	400C59	**400C59**


No. 52YX35

Large Recessed Electric Wall Heaters with Occupancy Sensor

- Overheat protection
- Programmable
- Tamper-resistant
- Bronze grille color

Occupancy sensor turns up the thermostat to the desired temperature when it detects movement. If no movement is detected, it will set the thermostat back to a preset level to save energy costs. These fan-forced heaters are used in residential and small commercial spaces. Units can be recess- or surface-mounted.

Wattage Output	Voltage	Phase	Rough-In Height	Rough-In Width	Rough-In Depth	Mfr. Model	Item No.
Heaters							
4000W	208V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	F3454SD-GB	**52YX35**
		3	23 1/16 in	14 1/4 in	4 1/4 in	J3454SD-GB	**52YX38**
	240V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	H3454SD-GB	**52YX36**
		3	23 1/16 in	14 1/4 in	4 1/4 in	K3454SD-GB	**52YX39**
	277V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	G3454SD-GB	**52YX37**
5000W	208V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	F3455SD-GB	**52YX40**
		3	23 1/16 in	14 1/4 in	4 1/4 in	J3455SD-GB	**52YX42**
	240V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	H3455SD-GB	**52YX41**
		3	23 1/16 in	14 1/4 in	4 1/4 in	K3455SD-GB	**52YX43**
	277V AC	1	23 1/16 in	14 1/4 in	4 1/4 in	G3455SD-GB	**52YX44**

Item	For Use With	Mfr. Model	Item No.
Accessory			
Mounting Frame	Mfr. No F3454SD-GB, H3454SD-GB, G3454SD-GB, J3454SD-GB, K3454SD-GB, F3455SD-GB, H3455SD-GB, J3455SD-GB, K3455SD-GB, G3455SD-GB	3450EX34	**52YX45**

Mounting Brackets & Frames for Large Recessed Electric Wall Heaters

Find additional accessories on Grainger.com®.


No. 5E188


No. 3UF66

Item	For Use With	Color	Brand	Mfr. Model	Item No.
Mounting Frame	2HAD9, 2HAE1, 5E182, 5E184, 5E186	Bronze	Dayton	5E188	**5E188**
	3UF59, 3UF60, 3UF61, 3UF62, 3UF63, 3UG55, 3UG56, 2HAD5, 2HAD8	White	Dayton	3UF66	**3UF66**
	3UF59 to 3UF63	White	Dayton	3UF64	**3UF64**
	3UF59 to 3UF63	White	Dayton	3UF65	**3UF65**
	5E183, 5E185, 5E187	White	Dayton	5E189	**5E189**
	Mfr. No. HOSS4008 HOSS4004, HOSS4007	White	Qmark	HTWHSM	**18F256**
Mounting Kit and Brackets	Mfr. No. Broan Models 170 Thru 178	White	Broan	85	**5EFR8**
Security Front Cover	3UF59, 3UF60, 3UF61, 3UF62, 3UF63, 3UG55, 3UG56 , 3UG57	White	Dayton	3UG58	**3UG58**
Semi-Recessed Frame	39K912, 39K913, 39K914, 39K915 and 39K916	White	Qmark	CWH3S1	**39K918**
	39K912, 39K913, 39K914, 39K915 and 39K916	White	Qmark	CWH3S2	**39K919**
Surface Mounting Frame	19PP61, 19PP51, 19PP13, 39K908, 39K907, 39K906, 39K909, 19PN86, 39K905, 39K904, 19PN80, 19PN79, 19PN70, 19PN78, 2HAD9, 2HAE1, 3END5, 3END6, 3END7, 3END8, 3END9, 3ENE1	Bronze	Qmark	AWHSM	**39K910**
	39K904, 39K907 and 39K909	White	Qmark	AWHSMNW	**39K911**
	39K912, 39K913, 39K914, 39K915 and 39K916	White	Qmark	CWH3SM	**39K917**
	Mfr. No. E3313TRPW, HF3315T2RPW, HF3316T2RPW	White	Markel Products	3310EX33WR	**31TR50**
	Mfr. No. E3323TD-RP To G3327TD-RP	Brown	Markel Products	3320EX33	**31TR58**
	Mfr. No. HT2024SS, HT1502SS	Black	Qmark	SMHTSSBL	**18F259**
	Mfr. No. HT2024SS, HT1502SS	White	Qmark	SMHTSSNW	**18F260**


No. 5EFP6


No. 3UG15

Wattage Output	Voltage	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Grille Height	Grille Width	Grille Depth	Brand	Mfr. Model	Item No.
Heaters											
Recessed Mounting											
500W/750W/1000W	120/208/240V AC	White	7 3/4 in	10 1/4 in	3 3/4 in	9 1/4 in	12 in	1/2 in	Broan	128	**5EFR4**
525W/675W/1200W, 700W/900W/1600W	208/240V AC	White	6 in	12 3/4 in	4 in	7 3/8 in	14 in	1 in	Cadet	RMC162W	**31LK55**
750W/1125W/1500W	120/208/240V AC	White	7 3/4 in	10 1/4 in	3 3/4 in	9 1/4 in	12 in	1/2 in	Broan	170	**5EFP6**
	120/208/240V AC	White	7 3/4 in	10 1/4 in	3 3/4 in	9 1/4 in	14 1/4 in	7/8 in	Broan	120	**5EFR2**
750W/1500W, 1000W/2000W	208/240V AC	White	7 3/4 in	10 1/4 in	3 3/4 in	9 1/4 in	12 in	1/2 in	Broan	174	**5EFP7**
	208/240V AC	White	7 3/4 in	10 1/4 in	3 3/4 in	9 1/4 in	14 1/4 in	7/8 in	Broan	124	**5EFR3**
	208/240V AC	White	18 in	14 1/4 in	3 3/4 in	20 1/4 in	16 3/8 in	1 1/4 in	Broan	178	**5EFP8**
Surface and Recessed Mounting											
375W/750W/1125W/1500W	120V AC	White	6 3/4 in	14 1/2 in	4 1/2 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG15	**3UG15**
	120V AC	White	6 5/8 in	14 3/8 in	4 3/8 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG16	**3UG16**
375W/750W/1125W/1500W, 500W/1000W/1500W/2000W	208/240V AC	White	6 3/4 in	14 in	4 1/2 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG17	**3UG17**
	208/240V AC	White	6 3/4 in	14 in	4 1/2 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG18	**3UG18** *
450W/900W/1350W/1800W, 600W/1200W/1800W/2400W	208/240V AC	White	6 3/4 in	14 in	4 1/2 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG19	**3UG19**
	208/240V AC	White	6 3/4 in	14 in	4 1/2 in	7 3/4 in	16 7/8 in	3/4 in	Dayton	3UG20	**3UG20** †
1500W	120V AC	White	7 1/8 in	14 1/2 in	3 1/2 in	7 5/8 in	16 3/4 in	1 in	Markel Products	E4315TRPW	**31TR36**
1500W/2000W	208/240V AC	White	7 1/8 in	14 1/2 in	3 1/2 in	7 5/8 in	16 3/4 in	1 in	Markel Products	HF4320T2RPW	**31TR37**
2250W/3000W	240V AC	Black	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CST302	**49XN31**
	240V AC	Black	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CST302T	**49XN33**
	240V AC	White	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CSTC302TW	**49XN29**
3000W/4000W	240V AC	Black	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CST402	**49XN32**
	240V AC	Black	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CST402T	**49XN34**
	240V AC	White	10 1/8 in	14 1/2 in	4 in	12 in	16 1/4 in	1 in	Cadet	CSTC402TW	**49XN30**

Register-Style Recessed Electric Wall Heaters

- Overheat protection

Have a grille design similar to most central air vents to blend into the room. These fan-forced units are compact and heat areas with limited space. They come with a built-in thermostat.

Item	For Use With	Brand	Item No.
Accessories			
Heater Wall Adapter	CST Series Wall Heaters	Cadet	**49XN37**
Heater Wall Can	CST Series Wall Heaters	Cadet	**49XN36**
Heater Wall Grille	CST Series Wall Heaters	Cadet	**49XN35**
Mounting Kit and Brackets	Mfr. No. Broan Models 170 Thru 178	Broan	**5EFR7**
Surface Mounting Frame	Mfr. No. E4315TRPW, HF4320T2RPW	Markel Products	**31TR38**
Line Volt Mechanical Tstat	Register Heaters	Broan	**5EFR9**

** Single pole. † Double pole.*

Wattage Output	Voltage	Phase	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
1250W	120V AC	1	Gray	2 1⁵⁄₁₆ in	11 in	2 ¾ in	Broan	157	**5EFR6**
2000W/3000W/4000W	208V AC	1 or 3	Gray	5 ¾ in	16 ⁷⁄₁₆ in	5 ¾ in	Dayton	2YU40	**2YU40**
	208V AC	1 or 3	White	9 1⁵⁄₁₆ in	16 ⁷⁄₁₆ in	5 ¾ in	Qmark	CDF548SE	**39K889**
	277V AC	1	Gray	5 ¾ in	16 ⁷⁄₁₆ in	5 ¾ in	Dayton	2YU38	**2YU38**
	277V AC	1	White	10 ½ in	16 ⁷⁄₁₆ in	5 ¾ in	Qmark	CDF547SE	**39K899**
2500W/3800W/5000W	208V AC	1 or 3	Gray	5 ¾ in	16 ⁷⁄₁₆ in	5 ¾ in	Dayton	2YU44	**2YU44**
	208V AC	1 or 3	White	10 ½ in	16 ⁷⁄₁₆ in	5 ¾ in	Qmark	CDF558SE	**39K891**
	240V AC	1 or 3	Gray	5 ¾ in	16 ⁷⁄₁₆ in	5 ¾ in	Dayton	2YU35	**2YU35**
	240V AC	1 or 3	White	10 ½ in	16 ⁷⁄₁₆ in	5 ¾ in	Qmark	CDF552SE	**39K895**
	277V AC	1	Gray	5 ¾ in	16 ⁷⁄₁₆ in	5 ¾ in	Dayton	2YU42	**2YU42**
	277V AC	1	White	10 ½ in	16 ⁷⁄₁₆ in	5 ¾ in	Qmark	CDF557SE	**39K896**

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Disconnect Switch	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, and 2YU42	Dayton	2YU45	**2YU45**
	CDF Series Heaters	Qmark	CDFDS	**39K897**
Electric Wall & Ceiling Heater Thermostat	CDF Series Heaters	Qmark	CDFT	**39K894**
	Mfr. Model No. 2YU35-2YU43	Dayton	2YU46	**2YU46**
	Mfr. Model No. 2YU35-2YU43	Dayton	2YU89	**2YU89**
Transformer	2YU35, 2YU36, 2YU39, 2YU40, 2YU43, 2YU44	Dayton	2YU48	**2YU48**
	2YU37, 2YU38, 2YU41, 2YU42	Dayton	2YU49	**2YU49**
	CDF Series Heaters	Qmark	CDFTR7	**39K902**
Transformer Kit	CDF Series Heaters	Qmark	CDFTR4	**39K898**
Trim Kit	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, 2YU42, 2YU43	Dayton	2YU47	**2YU47**
	CDF Series Heaters	Qmark	CDFTK	**39K901**


No. 5EFR6


No. 2YU40


No. 39K889

BROAN Dayton QMARK

Surface-Mount Electric Ceiling Heaters

Position out of the way to free up limited wall and floor space. Units use fan-forced air to provide spot and supplemental heating to spaces like offices, conference rooms, lobbies, and bathrooms. Automatic thermal cutout shuts off the heater if it overheats and turns it back on when the temperature returns to normal. Thermostat is required.

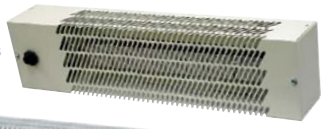
Surface-Mount Electric Wall Heaters

QMARK Dayton

- Mechanical selector dial

Position near the floor, allowing heat to rise upward to warm the area. Units use convection heating to quietly provide spot and supplemental heating to small spaces.

Wattage Output	Voltage	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
500W/375W/500W	120/208/240V AC	Beige	5 in	21 in	3 ½ in	Qmark	WHT500	**39K903**
	120V AC/208V AC/240V AC	Beige	5 in	21 in	3 ½ in	Dayton	2YV13	**2YV13**


No. 39K903


No. 2YV13

Surface-Mount Electric Cove Heaters

Dayton

Position high on the wall near the ceiling to save space and avoid interference with furniture. Units use radiant heating to quietly transfer heat to people and objects in small spaces. Units warm people quicker than other than other types of heaters. Used with remote line voltage thermostats.

Wattage Output	Voltage	Housing Color	Overall Height	Overall Width	Overall Depth	Item No.
600 W	240V AC	White	4 ³⁄₁₆ in	47 in	3 in	**3UH04**
1,050 W	240V AC	White	4 ³⁄₁₆ in	83 in	3 in	**3UH03**


No. 3UH03

Surface-Mount Electric Cabinet Wall Heaters

QMARK

- Field convertible with voltage
- 1 or 3 phase

Units are larger than other wall heaters and have a greater capacity to produce warm air in a shorter amount of time. Provide fan-forced heating to spaces like school hallways, churches, and transportation terminals. Can be universally mounted or recess out of the way with required trim kit. Built-in thermostat can be removed and converted to wall-mount.

Wattage Output	Voltage	Phase	Housing Color	Air Flow	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.	
3.3kW/5kW	208V AC	3	Beige	200/250 CFM	35 in	26 ⅜ in	9 ⅞ in	CUS93505203FF	**3UF52**	**
	240V AC	3	Beige	200/250 CFM	35 in	26 ⅜ in	9 ⅞ in	CUS93505243FF	**3UF53**	**
	480V AC	3	Beige	200/250 CFM	35 in	26 ⅜ in	9 ⅞ in	CUS93505483FF	**3UF54**	*
6.7kW/10kW	208V AC	3	Beige	400/500 CFM	45 in	26 ⅜ in	9 ⅞ in	CUS94510203FF	**3UF55**	**
	240V AC	3	Beige	400/500 CFM	45 in	26 ⅜ in	9 ⅞ in	CUS94510243FF	**3UF56**	**
	480V AC	3	Beige	400/500 CFM	45 in	26 ⅜ in	9 ⅞ in	CUS94510483FF	**3UF57**	*

** Field-convertible from 480V/3-phase to 277V/1-phase. ** 208V or 240V 3-phase field-convertible to 1-phase.*


No. 3UF52

Wattage Output	Voltage	Phase	Housing Color	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
2000W/3000W/4000W	208V AC	1 or 3	Gray	23 ¾ in	23 ¾ in	7 in	Dayton	2YU39	**2YU39**
	208V AC	1 or 3	White	23 ¾ in	23 ¾ in	7 in	Qmark	CDF548RE	**39K887**
	277V AC	1	Gray	23 ¾ in	23 ¾ in	7 in	Dayton	2YU37	**2YU37**
	277V AC	1	White	23 ¾ in	23 ¾ in	7 in	Qmark	CDF547RE	**39K893**
2500W/3800W/5000W	208V AC	1 or 3	Gray	23 ¾ in	23 ¾ in	7 in	Dayton	2YU43	**2YU43**
	208V AC	1 or 3	White	23 ¾ in	23 ¾ in	7 in	Qmark	CDF558RE	**39K888**
	240V AC	1 or 3	Gray	23 ¾ in	23 ¾ in	7 in	Dayton	2YU36	**2YU36**
	240V AC	1 or 3	White	23 ¾ in	23 ¾ in	7 in	Qmark	CDF552RE	**39K892**
	277V AC	1	Gray	23 ¾ in	23 ¾ in	7 in	Dayton	2YU41	**2YU41**
	277V AC	1	White	23 ¾ in	23 ¾ in	7 in	Qmark	CDF557RE	**39K890**

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Disconnect Switch	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, and 2YU42	Dayton	2YU45	**2YU45**
	CDF Series Heaters	Qmark	CDFDS	**39K897**
Electric Wall & Ceiling Heater Thermostat	CDF Series Heaters	Qmark	CDFT	**39K894**
	Mfr. Model No. 2YU35-2YU43	Dayton	2YU46	**2YU46**
	Mfr. Model No. 2YU35-2YU43	Dayton	2YU89	**2YU89**
Transformer	2YU35, 2YU36, 2YU39, 2YU40, 2YU43, 2YU44	Dayton	2YU48	**2YU48**
	2YU37, 2YU38, 2YU41, 2YU42	Dayton	2YU49	**2YU49**
	CDF Series Heaters	Qmark	CDFTR7	**39K902**
Transformer Kit	CDF Series Heaters	Qmark	CDFTR4	**39K898**
Trim Kit	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, 2YU42, 2YU43	Dayton	2YU47	**2YU47**
	CDF Series Heaters	Qmark	CDFTK	**39K901**


No. 2YU39


No. 39K887

Dayton QMARK

Recessed & Drop-In Panel Fan-Forced Electric Ceiling Heaters

Can be recess-mounted or installed in 2 ft. x 2 ft. drop ceilings. Can also be mounted in permanent ceiling applications with a required trim ring. Units use fan-forced air to provide spot heating in small areas with limited floor and wall space. Thermostat required.


No. 54UD14


No. 54UD18

Dayton QMARK

Drop-In Panel Radiant Electric Ceiling Heaters

Install in 2 ft. x 2 ft. or 2 ft. x 4 ft. drop ceilings. Include built-in T-bar suspension clips for mounting. Can also be recess- or surface-mounted on hard ceiling surfaces with a required mounting frame. Units use radiant heating to quietly spot heat small spaces. Remote wall-mounted line voltage thermostat required.

Wattage Output	Voltage	Mounting Type	Housing Color	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
375W	120V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD14	**54UD14**
	120V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP371F	**54UD22**
	208V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD15	**54UD15**
	208V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP378F	**54UD23**
	240V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD16	**54UD16**
	240V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP372F	**54UD24**
	277V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD17	**54UD17**
	277V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP377F	**54UD25**
750W	120V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD18	**54UD18**
	120V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP751F	**54UD26**
	208V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD19	**54UD19**
	208V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP758F	**54UD27**
	240V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD20	**54UD20**
	240V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP752F	**54UD28**
	277V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD21	**54UD21**
	277V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP757F	**54UD29**

Description	For Use With	Color	Brand	Mfr. Model	Item No.
Mounting Frames					
Recessed, 24 in H x 24 in W	54UD14, 54UD15, 54UD16, and 54UD17	Gray	Dayton	2YU96	**2YU96**
	54UD22, 54UD23, 54UD24, and 54UD25	Gray	Qmark	QRF2424	**39K931**
Recessed, 48 in H x 24 in W	54UD18, 54UD19, 54UD20, and 54UD21	Gray	Dayton	2YU97	**2YU97**
	54UD26, 54UD27, 54UD28, and 54UD29	Gray	Qmark	QRF2448	**39K929**
Surface, 24 in H x 24 in W	54UD14, 54UD15, 54UD16, and 54UD17	Gray	Dayton	2YU98	**2YU98**
	54UD22, 54UD23, 54UD24, and 54UD25	Gray	Qmark	QSF2424	**39K930**
Surface, 48 in H x 24 in W	54UD18, 54UD19, 54UD20, and 54UD21	Gray	Dayton	2YU99	**2YU99**
	54UD26, 54UD27, 54UD28, and 54UD29	Gray	Qmark	QSF2448	**39K928**


No. 2HCX4


No. 56FD65


No. 2KMN4

Dayton Markel Products Company

General Purpose Electric Plenum Heaters

- Fan-forced
- Disconnect switch
- Mechanical Selector Dial, Thermostat

Can be installed for free-air discharge or with a duct system to supplement central heating in hard-to-access or concealed areas, such as between a finished and drop ceiling or a plenum space. Can be rotated on their axis, but must be suspended horizontally and independently supported. Cannot be mounted vertically. Mounting bracket included.

Wattage Output	Voltage	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Item No.
1 Phase Heaters							
3kW	208V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX3**
3kW	240V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX4**
3kW	277V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX5**
5kW	208/240V AC	275 CFM	14 ½ in	14 ⅜ in	19 ⅜ in	Markel Products	**56FD65**
5kW	208V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX8**
5kW	240V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX9**
5kW	277V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCY1**
7.5kW	208V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY5**
7.5kW	240V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY6**
7.5kW	277V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY7**
10kW	240V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ2**
10kW	277V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ3**
3 Phase Heaters							
3kW	208V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCX6**
5kW	208V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCY2**
5kW	240V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCY3**
5kW	480V AC	350/400 CFM	12 ½ in	24 in	19 ½ in	Dayton	**2HCY4**
7.5kW	208V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY8**
7.5kW	240V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY9**
7.5kW	480V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ1**
10kW	208V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ4**
10kW	240V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ5**
10kW	480V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ6**
15kW	208V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ7**
15kW	240V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ8**
15kW	480V AC	850/1000 CFM	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ9**

Item	Fits 3 to 5 kW H	W	D	Item No.	Fits 7.5 to 15 kW H	W	D	Item No.
Accessories								
Adjustable Louver Kit	12½"	14"	1"	**2KMN8**	—	—	—	—
Disposable Filter	10"	12"	1"	**3TKC3**	12"	16"	1"	**3TKC7**
Disposable Filter	12½"	14"	1"	**2KMN4**	17"	13½"	1"	**2KMN6**
Louver Kit	—	—	—	—	17"	13½"	1"	**2KMN9**
Register Kit	12"	10"	2½"	**2KMP1**	14"	12"	2½"	**2KMP2**
Reusable Filter	10"	12"	1"	**3TKC5**	12"	16"	1"	**3TKC9**
Reusable Filter	12½"	14"	1"	**2KMN5**	17"	13½"	1"	**2KMN7**



Dayton

Freeze Protection Electric Plenum Heater

- Thermostat range: 40°F to 90°F

Has a set of normally open (NO) contacts that can send a signal to an optional alarm device that activates if the heater cycles off on its over-temperature safety control. It notifies users before freezing occurs. Unit heats hard-to-access or concealed areas like plenum spaces. Ceiling mounted using included bracket or threaded rod mounting.

Wattage Output	Voltage	Air Flow	Overall Height	Overall Width	Overall Depth	Item No.
2.5kW/1.9kW	208/240V AC	150/130 CFM	12 ½ in	14 in	14 in	**2HDA1**

Wattage Output	Voltage	Phase	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Vertical Mounting H	Horizontal Air Throw	Mfr. Model	Item No.
Cadet Heaters											
2.7kW/4kW	240V AC	1	22° to 29°F	215 CFM	17 ½ in	15 ¾ in	8 ¼ in	—	—	RCP402S	**31LK68**
3.3kW/5kW	240V AC	1	27° to 37°F	215 CFM	17 ½ in	15 ¾ in	8 ¼ in	—	—	RCP502S	**31LK69**
Dayton Heaters											
1.8kW/3.7kW, 2.5kW/5kW	208/240V AC	1	60 °F	270 CFM	12 ½ in	14 in	11 ¼ in	11 ft	12 ft	3UG73	**3UG73**
2.2kW/3kW	208/240V AC	1	27 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU58	**2YU58**
2.5kW/1.9kW	208/240V AC	1	46 °F, 60 °F	150/130 CFM	12 ½ in	14 in	14 in	—	—	2HDA1	**2HDA1**
2.5kW/3.7kW, 3.3kW/5kW	208/240V AC	1	71 °F	210 CFM	16 in	21 in	8 in	15 ft	12 ft	4E169	**4E169**
3kW	208V AC	1	27 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU61	**2YU61**
3kW	277V AC	1	27 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU60	**2YU60**
3kW	480V AC	3	27 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU59	**2YU59**
3.7kW/5kW	208/240V AC	1 or 3	45 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU62	**2YU62**
5kW	208V AC	1 or 3	45 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU65	**2YU65**
5kW	277V AC	1	45 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU64	**2YU64**
5kW	480V AC	3	45 °F	350 CFM	16 in	14 in	8 ½ in	9 ft	12 ft	2YU63	**2YU63**
5.6kW/7.5kW	208/240V AC	1 or 3	37 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU66	**2YU66**
7.5kW	208V AC	1 or 3	37 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU68	**2YU68**
7.5kW	480V AC	3	37 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU67	**2YU67**
7.5kW/10kW	208/240V AC	1 or 3	49 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU69	**2YU69**
10kW	208V AC	1 or 3	49 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU71	**2YU71**
10kW	480V AC	3	49 °F	650 CFM	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU70	**2YU70**
11.2kW/15kW	208/240V AC	3	52 °F	910 CFM	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU72	**2YU72**
15kW	208V AC	1 or 3	52 °F	910 CFM	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU74	**2YU74**
15kW	480V AC	3	52 °F	910 CFM	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU73	**2YU73**
15kW/20kW	208/240V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	13 ¾ in	23 ft	41 ft	2YU75	**2YU75**
20kW	480V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	13 ¾ in	23 ft	41 ft	2YU76	**2YU76**
22.5kW/30kW	208/240V AC	3	45° to 53°F	1800/2100 CFM	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU77	**2YU77**
25kW	480V AC	3	38° to 44°F	1800/2100 CFM	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	3END3	**3END3**
30kW	208V AC	3	45° to 53°F	1800/2100 CFM	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU79	**2YU79**
30kW	480V AC	3	45° to 53°F	1800/2100 CFM	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU78	**2YU78**
37.5kW/50kW	208/240V AC	3	53° to 61°F	2600/3000 CFM	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	2YU80	**2YU80**
40kW	480V AC	3	42° to 49°F	2600/3000 CFM	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	3END4	**3END4**
50kW	480V AC	3	53° to 61°F	2600/3000 CFM	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	2YU81	**2YU81**
60kW	480V AC	3	60 °F	3400 CFM	35 ½ in	30 ½ in	14 ½ in	31 ft	50 ft	4TDH7	**4TDH7**
80kW	480V AC	3	55 °F	5000 CFM	39 ½ in	37 ½ in	18 ½ in	40 ft	65 ft	4TDH9	**4TDH9**
Qmark Heaters											
2.2kW/3kW	208/240V AC	1	27 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0321	**25D231**
3kW	208V AC	1	27 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0381	**25D233**
3kW	277V AC	1	27 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0371	**20CA07**
3kW	480V AC	3	27 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0341	**25D232**
3kW	600V AC	3	27 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0361	**20CA06**
3.7kW/5kW	208/240V AC	1 or 3	45 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0521	**25D234**
5kW	208V AC	1 or 3	45 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0581	**25D236**
5kW	277V AC	1	45 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0571	**20CA10**
5kW	480V AC	3	45 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0541	**25D235**
5kW	600V AC	3	45 °F	350 CFM	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0561	**20CA09**
5.6W/7.5kW	208/240V AC	1 or 3	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH072	**25D237**
7.5kW	208V AC	1 or 3	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH078	**25D252**
7.5kW	277V AC	1	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH077	**20CA13**
7.5kW	347V AC	1	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH073	**20CA11**
7.5kW	480V AC	3	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH074	**25D238**
7.5kW	600V AC	3	37 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH076	**20CA12**
7.5kW/10kW	208/240V AC	1 or 3	49 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH102	**25D239**
10kW	208V AC	1 or 3	49 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH108	**25D251**
10kW	277V AC	1	49 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH107	**20CA17**
10kW	480V AC	3	49 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH104	**25D240**
10kW	600V AC	3	49 °F	650 CFM	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH106	**20CA16**
10kW	600V AC	3	52 °F	910 CFM	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH156	**20CA20**
11.2kW/15kW	208/240V AC	3	52 °F	910 CFM	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH152	**25D254**
15kW	208V AC	1 or 3	52 °F	910 CFM	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH158	**25D253**
15kW	480V AC	3	52 °F	910 CFM	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH154	**25D241**
15kW/20kW	208/240V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH202	**20CA22**
18.7kW/25kW	208/240V AC	3	38° to 44°F	1800/2100 CFM	30 in	26 ⅝ in	11 ¾ in	23 ft	50 ft	MUH252	**20CA26**
20kW	208V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH208	**20CA25**
20kW	480V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH204	**20CA23**
20kW	600V AC	3	48 °F	1320 CFM	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH206	**20CA24**
25kW	480V AC	3	38° to 44°F	1800/2100 CFM	30 in	26 ⅝ in	11 ¾ in	23 ft	50 ft	MUH254	**20CA27**
25kW	600V AC	3	38° to 44°F	1800/2100 CFM	30 in	26 ⅝ in	11 ¾ in	23 ft	50 ft	MUH256	**20CA28**
30kW	480V AC	3	53 °F	1800/2100 CFM	30 in	26 ⅝ in	11 ¾ in	20 ft	50 ft	MUH304	**20CA30**
30kW	600V AC	3	53 °F	1800/2100 CFM	30 in	26 ⅝ in	11 ¾ in	20 ft	50 ft	MUH306	**20CA31**
TPI Heaters											
3kW/4kW	208/240V AC	1	53 °F	238 CFM	11 in	10 ⅝ in	9 ⅝ in	7 to 12 ft	10 ft	HF5840TC	**31XL69**
3.6kW/4.8kW	208/240V AC	1	74 °F	238 CFM	11 in	10 ⅝ in	9 ⅝ in	7 to 12 ft	10 ft	HF5848TC	**31XL70**

CADET INVITING WARMTH · Dayton · QMARK · TPI

Suspended Electric Wall & Ceiling Unit Heaters

Suspend from a bracket or threaded rod for use in downflow or horizontal applications and to save limited floorspace. Units use fan-forced air to provide primary or supplementary heating in large or exposed areas like factories, warehouses, and stock rooms. Find more Electric Wall & Ceiling Heaters and accessories on Grainger.com®.



No. 31LK68



No. 3UG73



No. 4TDH7



No. 25D231



No. 31XL69

Item	Fits KW	For Use With	Mfr. Model	Item No.
Dayton Accessories				
Cord Set 6 Ft	3.5 to 5	4E169	4E170	**4E170**
Disconnect Switch	3, 5, 7, 10, 15, 20	2YU58, 2YU59, 2YU60, 2YU61, 2YU62, 2YU63, 2YU64, 2YU65, 2YU67, 2YU70, 2YU73, 2YU76	2YU93	**2YU93**
	15, 20, 25, 30, 40, 50	2YU74 (When Wired for 3-Phase), 2YU66, 2YU69, 2YU72, 2YU76, 3END3, 3END4, 2YU78	2YU94	**2YU94**
	—	2YU58, 2YU60, 2YU61, 2YU74, 2YU77, 2YU79, 2YU80, 2YU81	2YU95	**2YU95**
Electric Wall & Ceiling Heater Thermostat	60, 80, 100	4TDH6-4THD9, 4TDJ1, 4TDJ2	30KA31	**30KA31**
	—	All Dayton(R) Electric Unit Heater Models Except4TDH6, 4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	2YU33	**2YU33**
	All Except 5KW; 3-Phase	All Dayton(R) Unit Heaters Except 2YU58, 2YU60, 2YU61, 2YU64, 4TDH6, 4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	2YU90	**2YU90**
Fan Only Switch	All Wattages	All Dayton(R) Electric Unit Heater Models	2YU82	**2YU82**
Mounting Bracket	15 to 20	15 to 20 kW Dayton(R) Electric Unit Heater	2YV17	**2YV17**
	30	25 & 30 kW Dayton(R) Electric Unit Heater	2YU91	**2YU91**
	30 to 50	25 to 50 kW Dayton(R) Electric Unit Heater	2YU85	**2YU85**
	3 to 10	3 to 10 kW Dayton(R) Electric Unit Heater	2YV16	**2YV16**
	3.5	3 to 5 kW Dayton(R) Electric Unit Heater	2YU83	**2YU83**
	50	40 & 50 kW Dayton(R) Electric Unit Heater	2YU92	**2YU92**
	7.5 to 20	7.5 to 20 kW Dayton(R) Electric Unit Heater	2YU84	**2YU84**
	60 to 100	Mfr. No. 4TDH6, 4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	4TDJ5	**4TDJ5**
	80 to 100	Mfr. No. 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	4TDJ4	**4TDJ4**
Step Controller	60, 80, 100	4TDH6, 4TDH7, 4TDH8, 4THD9, 4TDJ1, 4TDJ2	30KA30	**30KA30**
Qmark Accessories				
Disconnect Switch	3, 15	All MUH Heaters	DS25	**25D248**
	25, 50	Mfr. Model No. MUH072, MUH077 , MUH078, MUH102, MUH107, MUH108, MUH152, MUH158 3Ø Only, MUH202, MUH208, MUH252, MUH254, MUH304, MUH404, MUH504	MPDS60	**20CA43**
Fan Switch	3, 15	All MUH Series Heaters	MCFS	**25D247**
Mounting Bracket	15 to 20	15 to 20 kW MUH Unit Heaters	B20	**25D243**
	25 to 30	25 to 30 kW MUH Unit Heaters	B30	**20CA40**
	3 to 10	3 to 10 kW MUH Unit Heaters	B10	**25D242**
	40 to 50	40 to 50 kW MUH Unit Heaters	B50	**20CA41**
Thermostat	—	Mfr. No. 3UG73, 3UG74	5813-2050-000	**1ZKW6**



No. 49CU11



No. 29AT97

Washdown Electric Wall & Ceiling Unit Heaters

- 480VAC
- 3-phase
- Mechanical selector dial

Provide warmth where equipment frequently needs to be washed or hosed off, like wastewater treatment plants, coal handling areas, food processing plants, and car washes. Corrosion-resistant housing and enclosed internal parts prevent damage. May be mounted on walls or ceilings with a mounting bracket. Units use a forced-air heating system.

Markel®—Models feature a disconnect switch, reset limit switch, aiming handle, pilot light, and NEMA 4X control panel.

QMark®—Models feature an automatic temperature reset switch, pilot light, and mode selector switch.

Wattage Output	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters								
3.3 kW	26 °F	400 cfm	19 ¾ in	12 in	18 in	Markel Products	P3P5503T	**49CU11**
5 kW	23 °F	700 cfm	19 ½ in	13 in	18 in	Qmark	QWD05432BTLS	**29AT97**
	40 °F	400 cfm	19 ¾ in	12 in	18 in	Markel Products	P3P5505T	**49CU12**
7.5 kW	60 °F	400 cfm	21 ¾ in	14 in	18 in	Markel Products	P3P5507T	**49CU13**
10 kW	22 °F	1,450 cfm	31 in	20 in	27 in	Qmark	QWD10432BTLS	**29AT98**
	45 °F	700 cfm	21 ¾ in	14 in	19 in	Markel Products	P3P5510T	**49CU14**
15 kW	20 °F	2,400 cfm	31 in	20 in	27 in	Qmark	QWD15432BTLS	**29AT99**
	68 °F	700 cfm	28 ¾ in	16 in	19 in	Markel Products	P3P5515T	**49CU15**
20 kW	26 °F	2,400 cfm	31 in	20 in	27 in	Qmark	QWD20432BTLS	**29AU01**
	45 °F	1,400 cfm	28 ¾ in	16 in	27 in	Markel Products	P3P5520T	**49CU16**
25 kW	33 °F	2,400 cfm	31 in	20 in	27 in	Qmark	QWD25432BTLS	**29AU02**
	56 °F	1,400 cfm	28 ¾ in	16 in	27 in	Markel Products	P3P5525T	**49CU17**
30 kW	68 °F	1,400 cfm	28 ¾ in	16 in	27 in	Markel Products	P3P5530T	**49CU18**

Fits KW	For Use With	Mfr. Model	Item No.
Markel® Wall Mounting Brackets			
3.3 to 15	Mfr. No. P3P5503T, P3P5505T, P3P5507T, P3P5510T, P3P5515T	W5520/WMK	**49CU19**
20 to 48	Mfr. No. P3P5520T, P3P5525T, P3P5530T	W5550/WMK	**49CU20**



No. 49CU01



No. 5NF01

Hazardous-Location Suspended Electric Wall & Ceiling Unit Heaters

- 480V
- 3-phase
- 24V contactor

Fan-forced heaters that suspend from the wall or ceiling and can be mounted horizontally with an optional bracket. Units take up less room than cabinet heaters. Used in hazardous industrial environments like petroleum chemical treatment and storage facilities. Wall-mount thermostat required.

Note: Required remote thermostat or other control sold separately; see page 3028.

Markel®—Built-in manual reset capillary type thermal limit.

QMark®—Units feature automatic reset thermal limit and disconnect switch.

Wattage Output	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters with Class I, Group C and D, Division 1 and 2; Class II, Group E, F and G, Division 1 and 2 Rating								
3 kW	17 °F	580 cfm	17 ¾ in	22 ⅜ in	19 ¾ in	Markel Products	HLA 12-480360-3.0-24	**49CU01**
5 kW	28 °F	580 cfm	17 ¾ in	22 ⅜ in	19 ¾ in	Markel Products	HLA 12-480360-5.0-24	**49CU02**
7.5 kW	41 °F	580 cfm	17 ¾ in	22 ⅜ in	19 ¾ in	Markel Products	HLA 12-480360-7.5-24	**49CU03**
10 kW	22 °F	1,500 cfm	20 ¾ in	26 ⅜ in	20 ¾ in	Markel Products	HLA 16-480360-10.0-24	**49CU04**
15 kW	19 °F	2,450 cfm	24 ¾ in	30 ⅜ in	22 ½ in	Markel Products	HLA 20-480360-15.0-24	**49CU05**
20 kW	26 °F	2,450 cfm	24 ¾ in	30 ⅜ in	22 ½ in	Markel Products	HLA 20-480360-20.0-24	**49CU06**
25 kW	33 °F	2,450 cfm	24 ¾ in	30 ⅜ in	22 ½ in	Markel Products	HLA 20-480360-25.0-24	**49CU07**
Heaters with Class I, Group C and D, Division 1 and 2; Class II, Groups E, F and G Rating								
3 kW	13 °F	700 cfm	19 ⅛ in	23 ⅞ in	21 in	Qmark	GUX3004832	**5NF04**
7.5 kW	27 °F	840 cfm	19 ⅛ in	23 ⅞ in	21 in	Qmark	GUX7504832	**5NF06**
10 kW	36 °F	840 cfm	19 ⅛ in	23 ⅞ in	21 in	Qmark	GUX10004832	**5NF01**
15 kW	31 °F	1,450 cfm	25 in	27 ⅞ in	21 in	Qmark	GUX15004832	**5NF02**
20 kW	43 °F	1,400 cfm	25 in	27 ⅞ in	21 in	Qmark	GUX20004832	**5NF03**

Fits KW	For Use With	Mfr. Model	Item No.
Markel® Wall Mounting Brackets			
3 to 7.5	Mfr. No. HLA 12-480360-3.0-24, HLA 12-480360-5.0-24, HLA 12-480360-7.5-24	HLWM37	**49CU08**
10	Mfr. No. HLA 16-480360-10.0-24	HLWM10	**49CU09**
15 to 25	Mfr. No. HLWM10, HLA 20-480360-20.0-24, HLA 20-480360-25.0-24	HLWM1525	**49CU10**



No. 32MY02

Electric Heater Coil Re-String Kits

Repair worn or damaged heating elements in electric heaters if the original replacement elements are no longer available. Kits include heating wire, isolators, and hardware to allow users to replace elements in duct heaters, electric furnaces, air curtains, and strip heaters.

Coil Length	Outside Dia.	Watts @ 208 V	Watts @ 240 V	Watts @ 277 V	Watts @ 480 V	Mfr. Model	Item No.
2 ft 4 in	⅜ in	3,750 W	5,000 W	—	—	DH500	**32MY01**
2 ft 2 ½ in	⅜ in	—	4,000 W	—	—	DH506	**32MY06**
2 ft 7 ½ in	⅜ in	5,000 W	6,600 W	—	—	DH520	**32MY08**
2 ft 2 in	⅜ in	4,500 W	6,000 W	—	—	DH534	**32MY09**
2 ft 4 in	⅜ in	4,200 W	5,600 W	—	—	DH560	**32MY10**
12 in	⅝ in	3,750 W	5,000 W	—	—	DH500FC	**32MY03**
18 in	⅜ in	—	—	2,000 W	—	DH502-4	**32MY05**
18 ½ in	⅜ in	2,250 W	3,000 W	—	—	DH507	**32MY07**
22 in	⅜ in	2,600 W	3,500 W	—	—	DH501	**32MY04**
23 in	⅜ in	—	—	—	5,000 W	DH500-3	**32MY02**

Hazardous-Location Electric Cabinet Wall Heaters

Markel Products Company | QMARK

- Class I Div. 1 and 2 Groups B, C, and D
- Min. height from floor: 9" Markel®, 8" QMark®

Quiet, convection-style heaters used in hazardous industrial environments like petroleum refineries, gasoline storage areas, petrochemical facilities, and dry cleaning plants. Wall mount with included brackets. Thermostat not included.

Note: Required contactors sold separately on page 173. Required thermostats sold separately on page 3028.



No. 49CT92



No. 5NF09

Wattage Output	Voltage	Phase	Housing Color	Cabinet Height	Cabinet Width	Cabinet Depth	Brand	Mfr. Model	Item No.
1.8 kW	120V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1812-1RA	**49CT92**
	208V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG18081	**3LA87**
	208V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1820-1RA	**49CT93**
	240V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG18041	**3LA88**
	240V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1824-1RA	**49CT94**
3.6 kW	208V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG36081	**5NF11**
	208V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-3620-1RA	**49CT95**
	240V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG36041	**5NF09**
	240V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-3624-1RA	**49CT96**
	480V AC	3	Beige	20 in	34 in	9 in	Qmark	ICG360483	**5NF10**
	480V AC	3	Gray	18 in	34 in	9 in	Markel Products	FEP-3648-3RA	**49CT97**
7.6 kW	240V AC	1	Gray	18 in	58 in	9 in	Markel Products	FEP-7624-1RA	**49CT98**
	480V AC	3	Gray	18 in	58 in	9 in	Markel Products	FEP-7648-3RA	**49CT99**

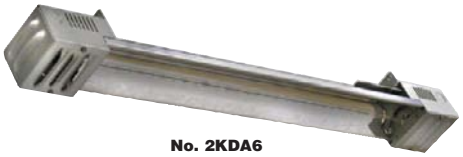
GA GRAINGER APPROVED | fostoria Quality Since 1917

Indoor Suspended Infrared Radiant Electric Ceiling Heaters

Units use infrared radiant heating to quietly warm people and objects, not the ambient air, without taking up floor or wall space. Suspend from the ceiling to spot-heat areas in workshops, garages, and warehouses. May only be used indoors.



No. 30PL20



No. 2KDA6

Wattage Output	Voltage	Beam Pattern	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Quartz Lamp, Red Housing								
742W	120V AC	120 °	45 in	6 ⅛ in	6 ½ in	GA	30PL20	**30PL20**
Quartz Lamp, Silver Housing								
900W/1600W	277V AC	60 °	24 in	3 ¾ in	3 ⅜ in	Fostoria	MM-24A	**2KDA6**
3000W/3800W	600V AC	60 °	46 in	3 ¾ in	3 ⅜ in	Fostoria	MM-46A	**2KDA7**

Solaira®

Indoor/Outdoor Suspended Infrared Radiant Electric Wall Heaters

- Beam pattern: 45°

Can withstand rain and are typically used to spot heat spaces like condominium terraces, gazebos, under patio umbrellas, and other low-clearance seating areas. Units use infrared radiant heating to quietly warm people and objects, not the air. Included bracket allows for vertical and horizontal orientation.



No. 55EA57



No. 11Z934



No. 11Z939



No. 11Z943

Wattage Output	Voltage	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Carbon Fiber Emitter, Black Housing							
1500W	120V AC	27 in	6 ½ in	5 ½ in	Aura	CF15120B	**55EA57**
2250W/3000W	208/240V AC	38 ½ in	6 ½ in	5 ½ in	Aura	CF30240B	**55EA58**
Quartz Lamp, Black Housing							
1125W/1500W	208/240V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15240B	**11Z944**
1125W/1500W	208/240V AC	22 in	6 in	5 in	Solaira	SCOSYXL15240b	**11Z948**
1500W	120V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15120B	**11Z942**
1500W	120V AC	22 in	6 in	5 in	Solaira	SCOSYXL15120b	**11Z946**
1500W/2000W	208/240V AC	15 ½ in	4 in	4 ¼ in	Solaira	SCOSYXL20240b	**11Z950**
Quartz Lamp, Silver Housing							
1125W/1500W	208/240V AC	16 in	10 in	6 in	Solaira	SALPHA15240S	**11Z935**
1500W	120V AC	16 in	10 in	6 in	Solaira	SALPHA15120S	**11Z934**
1500W/2000W	208/240V AC	16 in	10 in	6 in	Solaira	SALPHA20240S	**11Z936**
2250W/3000W	208/240V AC	31 in	10 in	6 in	Solaira	SALPHAH2-30240S	**11Z937**
3000W/4000W	208/240V AC	31 in	10 in	6 in	Solaira	SALPHAH2-40240S	**11Z938**
4500W/6000W	208/240V AC	46 in	10 in	6 in	Solaira	SALPHAH3-60240S	**11Z939**
Quartz Lamp, White Housing							
1125W/1500W	208/240V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15240W	**11Z945**
1125W/1500W	208/240V AC	22 in	6 in	5 in	Solaira	SCOSYXL15240w	**11Z949**
1500W	120V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15120W	**11Z943**
1500W	120V AC	22 in	6 in	5 in	Solaira	SCOSYXL15120w	**11Z947**
1500W/2000W	208/240V AC	15 ½ in	4 in	4 ¼ in	Solaira	SCOSYXL20240w	**11Z951**

Description	Mfr. Model	Item No.
Solaira Controls		
Analog Variable Heat Control, 120/240V AC, 30 A	SHP18230SOL	**11Z956**
Digital Variable Heat Control, 120/208/240V AC, 16 A	SMRTV16-DV	**20HN32**
Digital Variable Heat Control, 120/208/240V AC, 34 A	SMTRV34-DV	**20HN33**
Occupancy Monitor for heater, 208/240V AC, 16.6 A	SMRTOCC40	**20HN39**
Occupancy Monitor for heater, 208/240V AC, 25 A	SMRTOCC60	**20HN40**
Remote Temperature Monitor, 240V AC	SMRTVTEM-R	**20HN35**
Timer Control for Heater, 208/240V AC, 16.6 A	SMRTTIM40	**20HN37**
Timer Control for Heater, 208/240V AC, 25 A	SMRTTIM60	**20HN38**
Variable Heat Control, Wireless Handheld Remote, 240V AC	SMRTVRMT	**20HN34**
Vented Enclosure, 10 in H x 8 in W x 12 in D	SHE30ENCLOSE	**11Z957**
Vented Enclosure, 12 in H x 8 in W x 14 in D	SHE80ENCLOSE	**11Z959**

For Use With	Voltage	Mfr. Model	Item No.
Solaira Replacement Heater Lamps			
11Z952	240	SWIREAW15240	**11Z963**
11Z951	240	SWIREAW20240	**11Z964**

Electric Infrared Heater Selection Guide

DESIRED TEMP. RISE = Desired comfort temp. - average ambient temp.

WATTS REQUIRED =

For Indoor Spot Heating: Sq. ft. to heat x desired temp. rise

For Indoor Total Area/Building Heating: Sq. ft. to heat x desired temp. rise x 0.5

For Outdoor Spot Heating: Sq. ft. to heat x desired temp. rise x 2.0

For Outdoor Snow and Ice Control Heating Systems: Sq. ft. to heat x (avg. 85 to 110 watts/sq. ft.)

Note: Multiple heaters may be required to achieve required watts for desired coverage.

HEATING ELEMENTS

Flat Panel Emitters:
No glass materials. For indoor spot heating.

Quartz Lamp: For snow and ice control, indoor/outdoor spot heating, and indoor total area heating.

Quartz Tube: For indoor/outdoor spot heating and indoor total area heating.

Indoor/Outdoor Suspended Infrared Radiant Electric Ceiling Heaters

Quietly heat areas like entrances, patios, and bus shelters. Heaters withstand rain and provide snow and ice control. Can be ceiling- or wall-mounted with either an included or optional bracket. Units may be used with a variable heat controller.


No. 45EM25


No. 3UD52


No. 56FD29


No. 5E159


No. 55VL67


No. 3WA97

Wattage Output	Voltage	Phase	Overall Length	Overall Width	Overall Depth	BEAM PATTERN 30 ° Mfr. Model	30 ° Item No.	60 ° Mfr. Model	60 ° Item No.	90 ° Mfr. Model	90 ° Item No.
Flat Panel Emitter, Aluminum Housing Material, Gold Housing Color											
3150W	208V AC	1	46 in	9 in	8 ½ in	—	—	FSS-3120-1	**45EM25** *	—	—
	240V AC	1	46 in	9 in	8 ½ in	—	—	FSS-3124-1	**45EM26** *	—	—
	480V AC	1	46 in	9 in	8 ½ in	—	—	FSS-3148-1	**45EM27** *	—	—
4300W	208V AC	1 or 3	29 in	20 in	9 ¾ in	—	—	FSS-4320-3	**45EM28** *	—	—
	240V AC	1 or 3	29 in	20 in	9 ¾ in	—	—	FSS-4324-3	**45EM29** *	—	—
	480V AC	1 or 3	29 in	20 in	9 ¾ in	—	—	FSS-4348-3	**45EM30** *	—	—
9500W	208V AC	1 or 3	49 in	20 in	7 ¾ in	—	—	FSS-9520-3	**45EM31** *	—	—
	240V AC	1 or 3	49 in	20 in	7 ¾ in	—	—	FSS-9524-3	**45EM32** *	—	—
	480V AC	1 or 3	49 in	20 in	7 ¾ in	—	—	FSS-9548-3	**45EM33** *	—	—
Flat Panel Emitter, Aluminum Housing Material, Silver Housing Color											
3150W	208V AC	1	47 1⁄16 in	5 ¾ in	9 in	—	—	FSA-3120-1	**411G63** *	—	—
	240V AC	1	47 1⁄16 in	5 ¾ in	9 in	—	—	FSA-3124-1	**411G64** *	—	—
	480V AC	1	47 1⁄16 in	5 ¾ in	9 in	—	—	FSA-3148-1	**411G65** *	—	—
4300W	208V AC	1 or 3	25 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-4320-3	**411G66** *	—	—
	240V AC	1 or 3	25 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-4324-3	**411G67** *	—	—
	480V AC	1 or 3	25 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-4348-3	**411G68** *	—	—
9500W	208V AC	1 or 3	47 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-9520-3	**411G69** *	—	—
	240V AC	1 or 3	47 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-9524-3	**411G70** *	—	—
	480V AC	1 or 3	47 1⁄16 in	14 ¾ in	9 ¼ in	—	—	FSA-9548-3	**411G71** *	—	—
Quartz Lamp, 304 Stainless Steel, Silver											
3200W	208V AC	1	24 in	15 in	11 in	—	—	—	—	222-90-THSS-208V	**3UD57**
	240V AC	1	24 in	15 in	11 in	222-30-THSS-240V	**3UD52**	222-60-THSS-240V	**3UD55**	222-90-THSS-240V	**3UD58**
	277V AC	1	24 in	15 in	11 in	222-30-THSS-277V	**3UD53**	222-60-THSS-277V	**3UD56**	222-90-THSS-277V	**3UD59**
	480V AC	1	24 in	15 in	11 in	222-30-THSS-480V	**2KCX4**	222-60-THSS-480V	**2KCX6**	222-90-THSS-480V	**2KCX8**
4800W	208V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THSS-208V	**3UD60**	223-60-THSS-208V	**3UD62**	223-90-THSS-208V	**3UD64**
	240V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THSS-240V	**3UD61**	223-60-THSS-240V	**3UD63**	223-90-THSS-240V	**3UD65**
	480V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THSS-480V	**2KCY8**	223-60-THSS-480V	**2KCY9**	223-90-THSS-480V	**2KCZ1**
5000W	480V AC	1	33 in	15 in	11 in	342-30-THSS-480V	**2KCY1**	342-60-THSS-480V	**2KCY3**	342-90-THSS-480V	**2KCY5**
7300W	480V AC	1	46 in	15 in	11 in	462-30-THSS-480V	**3UD66**	462-60-THSS-480V	**3UD67**	462-90-THSS-480V	**2KCY7**
7500W	240V AC	1 or 3	33 in	21 ½ in	11 in	343-30-THSS-240V	**2KCZ2**	343-60-THSS-240V	**2KCZ4**	343-90-THSS-240V	**2KCZ6**
	480V AC	1 or 3	33 in	21 ½ in	11 in	343-30-THSS-480V	**2KCZ3**	343-60-THSS-480V	**2KCZ5**	343-90-THSS-480V	**2KCZ7**
10,950W	480V AC	1 or 3	46 in	21 ½ in	11 in	463-30-THSS-480V	**3UD68**	463-60-THSS-480V	**3UD69**	463-90-THSS-480V	**3UD70**
Quartz Lamp, 304 Stainless Steel Housing Material, Silver Housing Color											
1600W	208V AC	1	24 in	5 ⅜ in	4 ½ in	RPH-208-A	**3WA95**	—	—	—	—
3200W	208V AC	1	24 in	15 in	11 in	—	—	222-60-THSS-208V	**3UD54**	—	—
Quartz Lamp, Aluminum Housing Material, Silver Housing Color											
3200W	208V AC	1	24 in	15 in	11 in	222-30-THA-208V	**56FD25**	222-60-THA-208V	**56FD29**	—	—
	240V AC	1	24 in	15 in	11 in	222-30-THA-240V	**56FD26**	222-60-THA-240V	**56FD30**	—	—
	277V AC	1	24 in	15 in	11 in	222-30-THA-277V	**56FD27**	222-60-THA-277V	**56FD31**	—	—
	480V AC	1	24 in	15 in	11 in	222-30-THA-480V	**56FD28**	222-60-THA-480V	**56FD32**	—	—
4800W	208V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THA-208V	**56FD41**	223-60-THA-208V	**56FD45**	—	—
	240V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THA-240V	**56FD42**	223-60-THA-240V	**56FD46**	—	—
	277V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THA-277V	**56FD43**	223-60-THA-277V	**56FD47**	—	—
	480V AC	1 or 3	24 in	21 ½ in	11 in	223-30-THA-480V	**56FD44**	223-60-THA-480V	**56FD48**	—	—
5000W	208V AC	1	33 in	15 in	11 in	342-30-THA-208V	**56FD33**	342-60-THA-208V	**56FD36**	—	—
	240V AC	1	33 in	15 in	11 in	342-30-THA-240V	**56FD34**	342-60-THA-240V	**56FD37**	—	—
	480V AC	1	33 in	15 in	11 in	342-30-THA-480V	**56FD35**	342-60-THA-480V	**56FD38**	—	—
7300W	480V AC	1	46 in	15 in	11 in	462-30-THA-480V	**56FD39**	462-60-THA-480V	**56FD40**	—	—
7500W	208V AC	1 or 3	33 in	21 ½ in	11 in	343-30-THA-208V	**56FD49**	343-60-THA-208V	**56FD52**	—	—
	240V AC	1 or 3	33 in	21 ½ in	11 in	343-30-THA-240V	**56FD50**	343-60-THA-240V	**56FD53**	—	—
	480V AC	1 or 3	33 in	21 ½ in	11 in	343-30-THA-480V	**56FD51**	343-60-THA-480V	**56FD54**	—	—
10,950W	480V AC	1 or 3	46 in	21 ½ in	11 in	463-30-THA-480V	**56FD55**	463-60-THA-480V	**56FD56**	—	—
Quartz Lamp, Galvanized Steel Housing Material, Bronze Housing Color											
3200W	208V AC	1	24 in	15 in	11 in	222-30-TH-208V	**5E159**	222-60-TH-208V	**5E161**	222-90-TH-208V	**5E163**
	240V AC	1	24 in	15 in	11 in	222-30-TH-240V	**4E217**	222-60-TH-240V	**4E218**	222-90-TH-240V	**5E164**
	277V AC	1	24 in	15 in	11 in	—	—	222-60-TH-277V	**5E162**	222-90-TH-277V	**5E165**
	480V AC	1	24 in	15 in	11 in	222-30-TH-480V	**2KCX3**	222-60-TH-480V	**2KCX5**	222-90-TH-480V	**2KCX7**
5000W	480V AC	1	33 in	15 in	11 in	342-30-TH-480V	**2KCX9**	342-60-TH-480V	**2KCY2**	342-90-TH-480V	**2KCY4**
7300W	480V AC	1	46 in	15 in	11 in	462-30-TH-480V	**4E219**	462-60-TH-480V	**4E220**	462-90-TH-480V	**2KCY6**
Quartz Tube, 304 Stainless Steel Housing Material, Silver Housing Color											
1500W	120V AC	1	48 in	5 ⅜ in	6 ½ in	—	—	OCH-46-120V-SSE	**2KDA8**	—	—
3000W	208V AC	1	59 in	5 ⅜ in	6 ½ in	—	—	OCH-57-208V-SSE	**2KDA9**	—	—
	240V AC	1	59 in	5 ⅜ in	6 ½ in	—	—	OCH-57-240V-SSE	**2KDC1**	—	—
4000W	208V AC	1	55 in	7 ½ in	7 in	—	—	OCH2-55-208V-SS	**55VL67**	—	—
	240V AC	1	55 in	7 ½ in	7 in	—	—	OCH2-55-240V-SS	**55VL68**	—	—
6000W	208V AC	1	66 in	7 ½ in	7 in	—	—	OCH2-66-208V-SS	**55VL69**	—	—
	240V AC	1	66 in	7 ½ in	7 in	—	—	OCH2-66-240V-SS	**55VL70**	—	—
	277V AC	1	66 in	7 ½ in	7 in	—	—	OCH2-66-277V-SS	**55VL71**	—	—
	480V AC	1	66 in	7 ½ in	7 in	—	—	OCH2-66-480V-SS	**55VL72**	—	—
Quartz Tube, Galvanized Steel Housing Material, Bronze Housing Color											
1500W	120V AC	1	41 in	5 ⅜ in	6 ½ in	—	—	OCH-46-120VCE	**3WA97**	—	—
3000W	208V AC	1	59 in	5 ⅜ in	6 ½ in	—	—	OCH-57-208VCE	**3WA98**	—	—
	240V AC	1	59 in	5 ⅜ in	6 ½ in	—	—	OCH-57-240VCE	**3WA99**	—	—

Semi-protected outdoor areas only; units must be covered.

Find Electric Wall & Ceiling Heater Thermostats & Accessories on Grainger.com®

Mounting Brackets & Frames for Electric Infrared Heaters

Used to either complete an initial installation or to modify the mounting style of a wall or ceiling heater, such as surface mounting a recessed heater.

Outside H	Outside W	Color	For Use With	Mfr. Model	Item No.
Mounting Frame, Recessed, Surface-Mount, Frame Extends 1 in					
27 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 222-TH Series	RMF-222-A	**3UD75**
	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 222-THSS Series	RMF-222-SS-A	**3UD76**
32 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 223-THSS Series	RMF-223-SS	**3UD77**
49 in	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 462-THSS Series	RMF-462-SS-A	**3UD79**
Mounting Frame, Recessed-Mount, Frame Extends 1 in					
36 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 342-TH Series	RMF-342-A	**2KDD9**
	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 342-THSS Series	RMF-342-SS-A	**2KDD8**
41 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 343-THSS Series	RMF-343-SS	**2KDE1**
49 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 462-TH Series	RMF-462-A	**2KDE2**
54 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 463-THSS Series	RMF-463-SS	**2KDE3**
Tandem Kit, Ceiling-Mount, Frame Extends 1 ⅝ in					
27 in	17 ⅞ in	Gray	Supports (2) FSS-95 Series, Mfr. No. FSS-9520-3, FSS-9524-3, FSS-9548-3	FSS-95TMK	**45EM34**
Wall Mounting Bracket, Surface-Mount					
12 in	41 in	Gray	All Fostoria Mul-T-Mount and OCH Models	VMB-41-SS	**2KDD1**



No. 2KDD9

Panel Emitters for Electric Infrared Heaters

Replace worn or damaged emitters in indoor electric infrared heaters.
Emitters quietly warm surfaces through radiant energy.

Wattage Output	Voltage	For Use With	Mfr. Model	Item No.
3,150 W	208V AC	Mfr. No. MR-420-1, CH-420-1C, CH-420-3A	64337-022	**45EM42**
	240V AC	Mfr. No. MR-424-1, CH-424-1C, CH-424-1A	64337-023	**45EM43**
	480V AC	Mfr. No. MR-448-1, CH-448-1C, CH-448-1A	64337-025	**45EM44**
4,300 W	208V AC	Mfr. No. MR-620-3, CH-620-3C, CH-620-3A	64337-027	**45EM45**
	240V AC	Mfr. No. FHK-624-3A	64337-050	**45EM53**
	240V AC	Mfr. No. MR-624-3, CH-624-3C, CH-624-3A	64337-028	**45EM46**
	480V AC	Mfr. No. FHK-648-3A	64337-051	**45EM54**
	480V AC	Mfr. No. MR-648-3, CH-648-3C, CH-648-3A	64337-030	**45EM47**
9,500 W	208V AC	Mfr. No. MR-1320-3, CH-1320-3B, CH-1320-3A	64337-032	**45EM48**
	240V AC	Mfr. No. FHK-1324-3A	64337-053	**45EM55**
	240V AC	Mfr. No. MR-1324-3, CH-1324-3B, CH-1324-3A	64337-033	**45EM49**
	240V AC	Mfr. No. MR-2724-3, CH-2724-3C, CH-2724-3B	64337-038	**45EM51**
	480V AC	Mfr. No. FHK-1348-3A	64337-054	**45EM56**
	480V AC	Mfr. No. MR-1348-3, CH-1348-3B, CH-1348-3A	64337-035	**45EM50**
	480V AC	Mfr. No. MR-2748-3, CH-2748-3C, CH-2748-3B	64337-040	**45EM52**



No. 45EM45



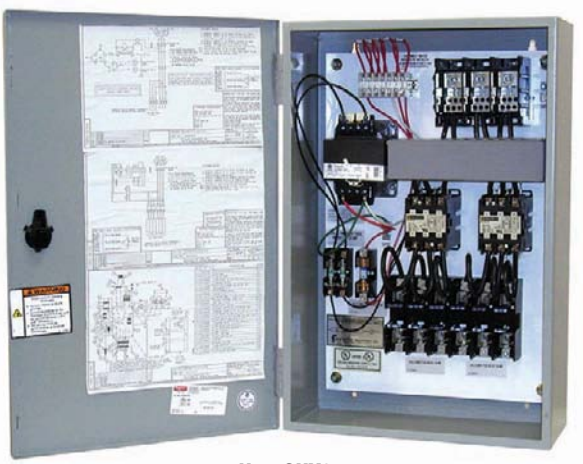
No. 1UMN3

Tubular Elements for Electric Infrared Heaters

Replace worn or damaged elements in indoor and outdoor electric infrared heaters and quietly warm surfaces using radiant energy. Horizontal burn, except where noted.

Wattage Output	For Use With	Voltage	Overall Dim. - Dia. x L	Mfr. Model	Item No.	
Clear, Electric Infrared Tubular Heater Element, 5½ in Pigtail						
500 W	Mfr. No. MM-13A	120V AC	⅜ in x 8 1/16 in	630-05129	**29XR19**	
1,600 W	Mfr. No. 222, 223, MM-24A	208V AC	5/16 in x 19 1/16 in	AGS1620	**56FD57**	
		208V AC	⅜ in x 19 1/16 in	630-16209	**1UMN3**	
		240V AC	⅜ in x 19 1/16 in	631-16249	**29XR26**	*
		240V AC	5/16 in x 19 1/16 in	AGS1624	**56FD58**	
		240V AC	⅜ in x 19 1/16 in	630-16249	**1UMN4**	
		277V AC	⅜ in x 19 1/16 in	630-16279	**29XR22**	
		277V AC	5/16 in x 19 1/16 in	AGS1627	**56FD59**	
		480V AC	5/16 in x 19 1/16 in	AGS1648	**56FD60**	
		480V AC	⅜ in x 19 1/16 in	630-16489	**2KCZ8**	
2,500 W	Mfr. No. 342, 343, MM-33A	208V AC	⅜ in x 28 1/16 in	630-2520	**29XR23**	
		208V AC	5/16 in x 19 1/16 in	AGS2520	**56FD61**	
		240V AC	5/16 in x 19 1/16 in	AGS2524	**56FD62**	
		240V AC	⅜ in x 28 1/16 in	630-25249	**2KCZ9**	
		277V AC	⅜ in x 28 1/16 in	630-25279	**29XR24**	
		480V AC	5/16 in x 19 1/16 in	AGS2548	**56FD63**	
		480V AC	⅜ in x 28 1/16 in	630-25489	**2KDA1**	
		600V AC	⅜ in x 28 1/16 in	631-25609	**29XR28**	*
3,650 W	Mfr. No. 462, 463, MM-46A	480V AC	5/16 in x 19 1/16 in	AGS3648	**56FD64**	
		480V AC	⅜ in x 41 1/16 in	630-36489	**1UMN5**	
3,800 W		600V AC	⅜ in x 41 1/16 in	631-38579	**29XR29**	*
		600V AC	⅜ in x 41 1/16 in	630-38579	**29XR25**	
Frosted, Electric Infrared Tubular Heater Element, 5½ in Pigtail						
450 W	Mfr. No. FFH-912B	120V AC	⅜ in x 12 15/16 in	671-3454	**1UMN9**	
550 W	Mfr. No. FFH-512A	120V AC	⅜ in x 19½ in	671-3492	**1UMP1**	
Frosted, Electric Infrared Tubular Heater Element, Terminals						
1,500 W	Mfr. No. OCH-46	120V AC	⅝ in x 39 1/16 in	671-3784	**1UMN6**	
2,000 W		208V AC	⅝ in x 39 1/16 in	671-5061	**29XR41**	
		277V AC	⅝ in x 39 1/16 in	671-5018	**29XR38**	
2,250 W	Mfr. No. OCH-57	480V AC	⅝ in x 50 1/16 in	671-5058	**29XR39**	
3,000 W		208V AC	⅝ in x 50 1/16 in	671-5060	**1UMN7**	
		240V AC	⅝ in x 50 1/16 in	671-3786	**1UMN8**	
		277V AC	⅝ in x 50 1/16 in	671-5059	**29XR40**	
Red, Glare Reduction Sleeve						
1,600 W	All 1600W Qtz. Lamp	—	1/16 in x 16¼ in	31939009	**1UMR1**	*
2,500 W	All 2500W Qtz. Lamp	—	1/16 in x 24¼ in	31940009	**2KDA2**	*
3,650 W	All 3650W Qtz. Lamp	—	1/16 in x 38¾ in	31941009	**1UMR2**	*

** Horizontal or vertical burn.*



No. 5GUY8

Enclosures for Electric Infrared Heaters

- 1 or 3 phase

Includes door lock, NEMA 1 enclosure, and 50A contactor(s).
Find more on Grainger.com®.

Amperage	208V AC, Control Volts 24 Mfr. Model	208V AC, Control Volts 24 Item No.	240V AC, Control Volts 24 Mfr. Model	240V AC, Control Volts 24 Item No.	480V AC, Control Volts 24 Mfr. Model	480V AC, Control Volts 24 Item No.	480V AC, Control Volts 120 Mfr. Model	480V AC, Control Volts 120 Item No.
50 A	FPC-8210	**5JNG2**	FPC-2210	**5JNG6**	FPC-4210	**5JNF8**	FPC-4110	**5GUY8**
100 A	FPC-8220	**5JNG3**	FPC-2220	**5JNG7**	FPC-4220	**5JNF9**	FPC-4120	**5GUY9**
200 A	FPC-8240	**5JNG4**	FPC-2240	**5JNG8**	FPC-4240	**5JNG0**	FPC-4140	**5GUZ0**
300 A	FPC-8260	**5JNG5**	FPC-2260	**5JNG9**	FPC-4260	**5JNG1**	FPC-4160	**5GUZ1**



No. 5RCC1



No. 2E393

Dayton® RE-VERBER-RAY® by Detroit Radiant Products Company INFRARED RADIANT HEATERS

Portable Gas Tank-Top Radiant Heaters

Note: LP tank not included.

Dayton®—Piezo ignition. Provide up to 48 hr. of spot heating on one 20-lb. cylinder. Corrosion-resistant steel construction with safety shut-off valve. No. 5RCC1 has dual swivel heads. Both are CSA Certified.

Re-Verber-Ray—Mount on standard DOT 20-lb. LP cylinder to provide temporary heat. Heaters feature a large ceramic burner assembly with highly polished aluminum reflector and stainless steel emitter rods for enhancing radiant output and heater efficiency. Heavy-gauge cylinder mounting bracket, safety shutoff valve, tip-over safety device, excess flow fitting, and 2-ft. UL-Listed connecting hose with regulator. Use in upright (vertical) position only.

WARNING: Use in well-ventilated or open areas only. Not for use in homes, mobile homes, tents, RVs, campers, or other spaces with limited ventilation. Always observe published clearances to combustibles.

BtuH Output	Heating Area	Fuel Rate	H	W	L	Brand	Item No.
9000 to 15,000	250 sq. ft.	0.66 lb/hr	12"	7⅛"	8⁵⁄₁₆"	Dayton	**5RCC0**
9000 to 30,000	500 sq. ft.	1.32 lb/hr	15½"	17¼"	6½"	Dayton	**5RCC1**
16,000	40 to 400 sq. ft.	0.66 lb/hr	13⅛"	10⅛"	4½"	Re-Verber-Ray	**2E392**
32,000	50 to 500 sq. ft.	1.30 lb/hr	18⅝"	10⅛"	4½"	Re-Verber-Ray	**2E393**



No. 21MK93

Dayton®

Gas-Fired Infrared Stainless Steel Patio Heaters

- Stainless steel housing

Uniform infrared pattern quickly heats people, objects, and the surrounding air. Wind- and rain-protected design with aluminum grille. Constructed with water-resistant electrical components.

Mounting brackets included. Ideal for restaurant patios, entryways, porches, mezzanines, vestibules, etc., and outdoor residential use.

Note: Winds in excess of 5 mph may require additional heaters to obtain desired comfort levels.

WARNING: Use in well-ventilated or open areas and always observe published clearances to combustibles.

Gas Type	BtuH Input	H	W	L	Heating Area	Item No.
LP	31,000	10⅞"	9"	48⅜"	64 sq. ft.	**21MK94**
NG	34,000	10⅞"	9"	48⅜"	81 sq. ft.	**21MK93**



No. 54EP07



No. 54EP09

Portable LP Gas Heaters

Dyna-Glo™

Innovative, compact heaters require no batteries or electricity and can provide efficient 360° heating. The variable heat output control allows you to adjust unit to your desired setting.

Note: LP tank not included.

HeatAround 360 and HeatAround 360 Elite—Compact models feature an oxygen depletion sensor that shuts off heater when the device detects a reduction of oxygen in the room and a tip-over shutoff switch. Piezo ignitor for easy matchless igntion. Design has a swivel-out regulator that eases tank or hose installation. No. 54EP07 can be connected to a 20-lb. propane tank for outdoor use with an optional hose/regulator, sold separately. No. 54EP08 includes 2 swivel regulators that allow you to easily attach up to 2 propane tanks. All heaters are ideal for temporary indoor heating in garages, workshops, and for outdoor patio/backyard and jobsite heating.

Tank Top—Heater features a safety shutoff valve and a CSA certified tip switch for safety. Compact model includes a stainless steel heat reflector, rustproof chrome guard, and a quick connect tank connection. For use in the temporary heating of buildings or structures under alteration, construction, or repair.

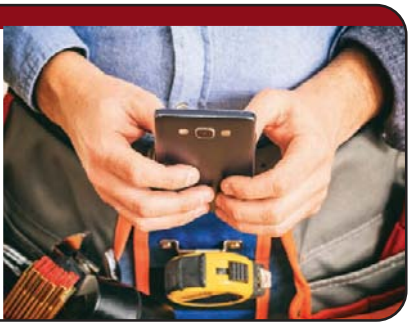
Description	BtuH Output	Min. Cylinder Size	Heating Area	Fuel Rate	H	W	L	Mfr. Model	Item No.
HeatAround 360	10,000	1 lb	250 sq. ft.	1.4 to 2.6 lb/hr	19"	10⅝"	10⅝"	HA1360R	**54EP07**
HeatAround 360 Elite	18,000	1 lb	450 sq. ft.	1.4 to 2.6 lb/hr	20²³⁄₆₄"	12¹³⁄₆₄"	12¹³⁄₆₄"	HA2360R	**54EP08**
Tank Top	40,000	20 lb	1000 sq. ft.	10.2 lb/hr	20²³⁄₃₂"	8²⁹⁄₃₂"	8²⁹⁄₃₂"	TT360DG	**54EP09**

DOWNLOAD the Grainger Mobile App!

- Easy Search
- Create Lists
- Track Orders
- On-The-Go Inventory

Download on the App Store
GET IT ON Google Play

Apple, the Apple logo and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.




No. 3VE48

Dayton ★ GA GRAINGER APPROVED

Portable Oil-Fired Forced-Air Heaters

For open, well-ventilated areas using kerosene, fuel oil, #1 diesel, heating oil, or jet fuel. 120V. Units up to 400,000 BtuH have fuel shutoff and overheat Auto-Off, LED power/failure indicator light, are fuse-protected, and have built-in air pressure gauge for field adjustment (except No. 3VE53).

BtuH Output	Tank Cap.	Hours on One Filling	Heating Area	Fuel Consumption	Built-In Thermostat	Item No.
Dayton Heaters						
50,000	5.0 gal.	14	1000 sq. ft.	0.35 gph	No	**3VE48**
75,000	5.0 gal.	8¾	1700 sq. ft.	0.57 gph	Yes	**3VE49**
125,000	10 gal.	10	2900 sq. ft.	0.95 gph	Yes	**3VE50**
170,000	13 gal.	10	4000 sq. ft.	1.30 gph	Yes	**3VE51**
210,000	13 gal.	8	5000 sq. ft.	1.60 gph	Yes	**3VE52**
400,000	29 gal.	9½	8500 sq. ft.	3.00 gph	Yes	**3VE53**
650,000	40 gal.	10	13,500 sq. ft.	4.50 gph	Yes	**4XA50**

Description	Item No.
GA Tune Up Kits (Rotor, Vanes, Rotor Retaining Clip, Air Filter, Nozzle and Spark Plug)	
For Use With 3VE48C, 3VE48D, 3VE48E, 3VE48F, 3VE48G	**21EX25**
For Use With 3VE49C, 3VE49D, 3VE49E, 3VE49F, 3VE49G	**21EX26**
For Use With 3VE51C, 3VE51D, 3VE51E, 3VE51F, 3VE51G, 3VE51H	**21EX28**
For Use With 3VE52C, 3VE52D, 3VE52E, 3VE52F,3VE52G, 3VE52H, 3VE52I	**21EX29**



No. 5PFW9

heat wagon ★ SELKIRK

Portable Indirect Oil-Fired Heaters

Provide clean, dry heat without open, exposed flame. Units are ductable, and all except No. 5PFW8 feature preheated fuel filter. No. 5PFX1 has dual output controls, single-point lift bracket, and fork lift pockets. Other units feature 4-loop exhaust system, tie-down brackets, and fuel cap with gauge. Heaters are CSA Certified.

BtuH Output	Tank Cap.	Hours on One Filling	Heating Area	Fuel Consumption	Built-In Thermostat	Brand	Mfr. Model	Item No.
91,900	17.2 gal.	22	4600 sq. ft.	0.80 gph	No	Heat Wagon	HVF110	**5PFW8**
174,900	27.7 gal.	19	8800 sq. ft.	1.48 gph	No	Heat Wagon	HVF210	**5PFW9**
254,400	35.7 gal.	16	13,000 sq. ft.	2.28 gph	No	Heat Wagon	HVF310	**5PFX0**
350,000 / 231,000	57 gal.	20/30	17,500 sq. ft.	1.86/2.89 gph	No	Heat Wagon	HVF410	**5PFX1**

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Thermostat	Mfr. No. HRF115, HVF110, HVF210, HVF310, HVF410	Heat Wagon	THIDF	**6DMN8**
B Vent Flue Stack with Rain Cap	Mfr. No. HVF110, HVF210, HVF310, HVF410	Selkirk	EF1	**6DMN9**
Duct, 20 ft.	Mfr. No. AR110, AR212, AR312	Heat Wagon	WD1220	**6DMP9**
Duct, 25 ft.	Mfr. No. AR310, AR402	Heat Wagon	WD1825	**6DMR2**
Duct, 25 ft.	Mfr. No. AR110, AR212, AR312, VG400	Heat Wagon	WD1225	**6DMR0**
Duct, 25 ft.	Mfr. No. AR210	Heat Wagon	WD1425	**6DMR1**
Canvas Hot Air Duct	Mfr. No. AR401, AR712, VG500	Heat Wagon	WD2025	**6DMR3**
Duct Outlet Adaptor	Mfr. No. HVF110	Heat Wagon	AR110	**6DMP0**
Duct Outlet Adaptor	Mfr. No. HVF210	Heat Wagon	AR210	**6DMP1**
Duct Outlet Adaptor, 2-way	Mfr. No. HVF210	Heat Wagon	AR212	**6DMP2**
Duct Outlet Adaptor	Mfr. No. HVF310	Heat Wagon	AR310	**6DMP3**
Duct Outlet Adaptor, 2-way	Mfr. No. HVF310	Heat Wagon	AR312	**6DMP4**
Duct Outlet Adaptor	Mfr. No. HVF410	Heat Wagon	AR401	**6DMP5**
Duct Outlet Adaptor, 2-way	Mfr. No. HVF410	Heat Wagon	AR402	**6DMP6**

Portable Direct Oil-Fired Radiant Heaters

MASTER

Quiet operation and designed with a safety shut-off system. Multi-fuel approved. Error indicator light allows easy field diagnostics. CSA Certified.

No. 39E998—Features an easy-lift handle to ease transport and is ideal for smaller areas like garages, workshops, and construction sites.

No. 39E997—Model has 2 heat settings and 2 heavy-duty wheels. Perfect for barns, warehouses, and construction sites.



No. 39E998

BtuH Output	Tank Cap.	Hours on One Filling	Heating Area	Fuel Consumption	Built-In Thermostat	Item No.
80,000	4 gal.	7	1750 sq. ft.	0.50 gph	No	**39E998**
125,000	14 gal.	20	3125 sq. ft.	0.90 gph	No	**39E997**

Portable Gas-Fired Remediation/Tent Heaters

heat wagon

▪ 120V ▪ High CFM axial fans ▪ Ductable up to 50 ft.

Provide heat up to 165°F for commercial construction or effective structural heat treatment of insect infestation; safer than insecticides. Switch from LP to NG with simple turn of ball valve. Safety features include overheat limit, air switch, and flame sensor. Heaters are CSA Certified.

Note: Gas-pressure-reducing regulators are strongly recommended for proper connection to propane cylinders.


No. 11Z967

Gas Type	BtuH Output	Heating Area	Fuel Rate	H	W	L	Mfr. Model	Item No.
LP/NG	241,000 / 255,000	10,000 sq. ft.	2.3 gph LP, 255 cu ft/hr NG	36"	31"	45"	DG250	**11Z967**
LP/NG	400,000	17,000 sq. ft.	4.3 gph, 404 cu ft/hr	39"	34"	61"	DG400	**11Z968**

Description	Mfr. Model	Item No.
Accessories		
Canvas Duct 16", Hose Length 25 ft., For Use With Mfr. No. DG250	WD1625HT5	**11Z971**
Canvas Duct 20", Hose Length 25 ft., For Use With Mfr. No. DG400	WD2025HT5	**11Z972**
Digital Thermostat, 120V, For Use With Mfr. No. DG250, DG400	DIGTHIDF-5	**11Z973**
Duct Adaptor, For Use With Mfr. No. DG250	AR250	**11Z969**
Duct Adaptor, For Use With Mfr. No. DG400	AR400	**11Z970**
Gas Pressure Regulator, For Use With Mfr. No. DG250, DG400	B42R	**6DMN6**

Construction/Tent Gas-Fired Heaters

L.B.WHITE

BtuH Output	Min. Cylinder Size	Heating Area	Fuel Rate	Amps AC	H	W	L	Mfr. Model	Item No.
LP									
80,000	100 lb	2000 sq. ft.	3.7 lb/hr	1.5	22"	13½"	29½"	TS080ASPN220097	**16W283**
170,000	100 lb	4000 sq. ft.	7.9 lb/hr	5	32"	24¼"	32"	TS170ASPN220097	**16W285**
175,000 to 350,000	500 gal	8000 sq. ft.	16.2 lb/hr	9	41"	28"	48½"	TS350BSPN21163T	**16W288**
LP/NG									
80,000	40 lb	2000 sq. ft.	3.7 lb/hr	1.5	22"	13⁵⁄₁₆"	29½"	CS080ASDN22163T	**407M21**
170,000	100 lb	4000 sq. ft.	7.9 lb/hr or 170 cu ft/hr	5	32"	24¼"	32"	CS170ASDN220151	**16W287**
350,000	500 gal	8000 sq. ft.	16.2 lb/hr or 350 cu ft/hr	9	41"	28"	48½"	TS350BSDN22163T	**16W290**

Item	W	L	For Use With	Mfr. Model	Item No.
Accessories					
Duct Kit	—	12 ft.	Mfr. No. Premier 80, Premier 80N, Premier 170, Premier 170N, Premier 170 DF	500-26346	**16W307**
Duct Kit	—	12 ft.	Mfr. No. Premier 80, Premier 80N, Premier 170, Premier 170N, Premier 170 DF	500-26347	**16W308**
Duct Kit	—	12 ft.	Mfr. No. Premier 350, Premier 350N, Premier 350 DF	500-22835	**16W311**
End Diffuser	29"	—	Mfr. No. 26346, 26347, 26348	500-26350	**16W310**
End Diffuser	57"	—	Mfr. No. 22835, 24442	500-23189	**16W313**
Unit Diffuser	29"	—	Mfr. No. Premier 170, Premier 170N, Premier 170 DF	500-26351	**16W306**
Unit Diffuser	30"	—	Mfr. No. Premier 80, Premier 80N	500-26349	**16W305**



No. 16W290

▪ 120V

Provide quiet operation with fuel-efficient direct-fired design. Feature a 20-ft. remote start thermostat, totally enclosed flame, airflow safety devices, and enclosed electronics. 12-ft. extendable ducting available for all models. Designed with dependable, electronic spark ignition. Easy to transport with lift handles and heavy-duty wheels. CSA Certified.



No. 3VE55



No. 16W280


No. 5PFW3

Portable Gas-Fired Forced-Air Heaters

▪ 120V

Deliver reliable, directional heat.

Note: Gas tank not included.

Dayton®—Adjustable heat angle, fuel safety shutoff, and overheat Auto-Off. No. 3VE55 has piezo ignition and single heat setting. LP units include 15-ft. hose and regulator.

L.B. White®—Corrosion-resistant heaters feature 3-trial ignition system, and the industry's heaviest gauge combustion chamber and burner plate. Have variable heat output while 170 and 400 models have thermostatic temperature control, and the 125 and 170 models have an adjustable front leg. Ultra models are self-diagnostic. All models are CSA Certified.

Sure Flame®—Dual fuel; runs on LP and natural gas. Includes air flow switch and Hi limit switch. Steel construction. CSA Certified for unattended operation.

BtuH Output	Min. Cylinder Size	Heating Area	Fuel Rate	Amps AC	Built-In Thermostat	H	W	L	Brand	Mfr. Model	Item No.
LP											
30,000 to 60,000	100 lb	1350 sq. ft.	1.4 to 2.3 lb/hr	0.65	No	15⅛"	8⅛"	19⁵⁄₁₆"	Dayton	—	**3VE54**
40,000	20 lb	940 sq. ft.	1.9 lb/hr	0.68	No	15⅛"	8⅛"	19⁵⁄₁₆"	Dayton	—	**3VE55**
70,000 to 125,000	100 lb	3100 sq. ft.	3.5 lb/hr	0.7	No	14¾"	9¾"	25½"	L.B. White	Tradesman 125	**53CU96**
70,000 to 125,000	100 lb	3100 sq. ft.	8.0 lb/hr	0.7	Yes	16⅛"	11⅞"	25½"	Dayton	—	**3VE57**
120,000 to 150,000	100 lb	3500 sq. ft.	7.0 lb/hr	0.7	No	16⅛"	11⅞"	25½"	Dayton	—	**3VE58**
125,000 to 170,000	100 lb	4000 sq. ft.	7.2 lb/hr	2.1	Yes	16"	10"	24"	L.B. White	CP170DSPN21163T	**16W277**
125,000 to 170,000	100 lb	4000 sq. ft.	7.2 lb/hr	2.1	Yes	16"	10"	24"	L.B. White	CP170DUPN21163T	**16W280**
250,000 to 400,000	(2) 100 lb	9000 sq. ft.	18.5 lb/hr	1.5	Yes	19½"	12½"	34½"	L.B. White	CP400HSPN21163T	**16W279**
250,000 to 400,000	(2) 100 lb	9000 sq. ft.	18.5 lb/hr	1.5	Yes	19½"	12½"	34½"	L.B. White	CP400HUPN21163T	**16W282**
300,000	500 lb	7000 sq. ft.	13.9 lb/hr	0.65	Yes	18½"	12⅝"	33⅜"	Dayton	—	**3VE59**
NG											
150,000	None	3500 sq. ft.	146 cu ft lb/hr	0.7	Yes	16⅛"	11⅞"	25⁹⁄₁₆"	Dayton	—	**3VE56**
125,000 to 155,000	100 lb	3500 sq. ft.	155 cu ft/hr	2.1	Yes	16"	10"	24"	L.B. White	CP170DSNN21163T	**16W278**
125,000 to 155,000	100 lb	3500 sq. ft.	155 cu ft/hr	2.1	Yes	16"	10"	24"	L.B. White	CP170DUNN21163T	**16W281**
LP/NG											
400,000	500 gal - 2000 lb	17,000 sq. ft.	19 lb/hr	12	Yes	24"	18"	46"	Sure Flame	S405	**5PFW3**

Description	Brand	Mfr. Model	Item No.
Accessories			
Gas Pressure Regulator, For Use With S405	Itron	B42R	**6DMN6**
¾" High Pressure Gas Hose, 25 ft., For Use With S405	Heat Wagon	7525	**6DMR4**
¾" High Pressure Gas Hose, 50 ft., For Use With S405	Heat Wagon	7550	**6DMR5**



Portable Indirect Gas-Fired Heater

Provides clean, dry heat without the fumes and added moisture of direct-fired heaters. Can be used for temporary heating and restoration drying applications. Ductable heater is dual fuel (NG/LP) with thermostat control and wheels. Also includes flame safeguard control, overheat limit, and airflow switch. Meets ANSI Z83.7A-2000 and is CSA Certified.

BtuH Output	Min. Cylinder Size	Heating Area	Fuel Rate	Amps AC	Heater Voltage	Built-In Thermostat	H	W	L	Brand	Mfr. Model	Item No.
LP/NG												
400,000	500 gal - 2000 lb	10,000 sq. ft.	19 lb/hr	10	120 V AC	Yes	45"	24"	60"	Heat Wagon	VG400	**5PFW5**

Description	Brand	Mfr. Model	Item No.
Accessories			
Gas Pressure Regulator, For Use With S405, VG175, VG400	Itron	B42R	**6DMN6**
Gas Pressure Regulator, For Use With Mfr. No. VG500	Sensus	143-80	**6DMN7**
Duct for Heater, 25 ft., For Use With Mfr. No. VG175	Heat Wagon	WD825	**6DMP8**
Duct for Heater, 25 ft., For Use With AR712, VG500	Heat Wagon	WD2025	**6DMR3**
Duct for Heater, 25 ft., For Use With Mfr. No. AR110, AR212, AR312, VG400	Heat Wagon	WD1225	**6DMR0**
¾" High Pressure Gas Hose, 25 ft., For Use With Mfr. No. VG175, VG400	Heat Wagon	7525	**6DMR4**
¾" High Pressure Gas Hose, 50 ft., For Use With Mfr. No. VG175, VG400	Heat Wagon	7550	**6DMR5**
1" High Pressure Gas Hose, 25 ft., For Use With Mfr. No. VG500	Heat Wagon	1025	**6DMR6**
1" High Pressure Gas Hose, 50 ft., For Use With Mfr. No. VG500	Heat Wagon	1050	**6DMR7**


No. 6BY71


No. 16W292


No. 1WVL8

Portable Gas-Fired Convection/Radiant Heaters

Lightweight heaters require no electricity for operation. Use in well-ventilated or outdoor areas. CSA Certified, except No. 16W294.

Note: Gas tank not included.

CONVECTION

Heat open areas quickly.

Dayton®—Flame safety system and piezo ignition. Include 10-ft. hose and regulator. Nos. 6BY71 and 6BY73 feature Low/Med./High settings. No. 6BY74 has adjustable heat setting from Low to High.

L.B. White®—

Corrosion resistant with adjustable output control; most units provide 360° heat output. Nos. 16W293 and 16W292 feature piezo ignition and enclosed stainless steel burner. Nos. 16W295 and 16W294 have a cast-iron burner.

RADIANT

Warm objects, not air. Wraparound screen for added safety. Low-pressure burner system; includes regulator.

Gas Type	BtuH Output	Min. Cylinder Size	Heating Area	Fuel Rate	H	W	L	Brand	Mfr. Model	Item No.
Convection										
LP	15,000 to 25,000	100 lb	600 sq. ft.	0.7-0.7 to 1.2 lb/hr	12⅞"	11¹¹⁄₁₆"	11¹¹⁄₁₆"	Dayton	—	**6BY71**
LP	50,000 to 80,000	100 lb	2000 sq. ft.	3.7 lb/hr	18½"	15⅞"	15⅞"	Dayton	—	**6BY73**
LP	50,000 to 200,000	(2) 100 lb	4700 sq. ft.	9.2 lb/hr	26³²⁄₃₂"	15⅞"	15⅞"	Dayton	—	**6BY74**
NG	100,000	None	2200 sq. ft.	100 cu ft/hr	25"	15"	16½"	L.B. White	CV100CZND12001B	**16W293**
LP	200,000	100 lb	4500 sq. ft.	9.3 lb/hr	24"	13"	18"	L.B. White	900-320C	**16W295**
LP	40,000 to 225,000	100 lb	5000 sq. ft.	10.2 lb/hr	25"	15"	16½"	L.B. White	CV225CZPD110094	**16W292**
LP	250,000	100 lb	5000 sq. ft.	11.6 lb/hr	24"	13"	18"	L.B. White	900-341H	**16W294**
Radiant										
NG	50 / 70 / 100,000	—	2900 sq. ft.	104 cu ft/hr	29¹³⁄₁₆"	16⁵⁄₁₆"	16⁵⁄₁₆"	Dayton	—	**1WVL8**
NG	250,000	—	5900 sq. ft.	250 cu ft/hr	44⁵⁄₁₆"	14¹¹⁄₁₆"	14¹¹⁄₁₆"	Dayton	—	**6BY72**

Monterey Top-Vent Gas Gravity Wall Furnaces

WILLIAMS Comfort Products

- Piezo ignitor for easy lighting
- Wall thermostat included (no electricity required)
- Optional automatic blower accessory and venting kit, sold separately

High efficiency furnaces are ideal for apartments, cabins, large single rooms, and residences. Features include stainless steel burners and ceramic coated combustion chambers, ½" NPT gas connection, and 4" oval and round B-vent. White enamel, powder-coated exterior cabinet. 10-yr. manufacturer's warranty on combustion chamber. Furnaces are CSA Certified.

BtuH* Input	BtuH* Output	Wall Type	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
Heaters									
25,000	17,870	Single	65¾"	16"	6"	2509622A	**36FK04**	2509621A	**36FK07**
35,000	23,700	Single	65¾"	16"	6"	3509622A	**36FK05**	3509621A	**36FK08**
50,000	36,900	Double	65¾"	16"	6"	5009622A	**36FK06**	5009621A	**36FK09**

Accessories		
Automatic Blower, Top-Mount, 115V, 100 cfm, For Use with Mfr. No. 2509622A, 2509621A, 3509622A, 3509621A, 5009622A, 5009621A	2901	**36FK62**
Oval Vent Starter Kit, For Use with All Forsaire Models	9929	**36FK69**
Freestanding (Flush-Mounted) Wall Installation Kit, For Installation on Masonry Walls, For Use with Mfr. No. 2509622A, 2509621A, 3509622A, 3509621A, 5009622A, 5009621A	4901	**36FK64**
Rear Register Kit, For Use with Mfr. No. 2509622A, 2509621A, 3509622A, 3509621A, 5009622A, 5009621A	6901	**36FK65**

**** Ratings shown are for elevations to 2000 ft. For elevations above 2000 ft., ratings should be reduced by 4% for each additional 1000 ft. above sea level.***



No. 36FK04

Forsaire Top-Vent and Direct-Vent Gas Counterflow Furnaces

WILLIAMS Comfort Products

- Piezo ignitor or intermittent spark ignition systems
- Wall thermostat included

Easy-to-install furnaces include a counterflow blower that pulls in cool room air, warms the air, then quickly delivers warmth where it's needed. All models feature stainless steel burners, ½" NPT gas connection, and a 4-ft. service cord. Venting not included. White enamel, powder-coated exterior cabinet. 10-yr. manufacturer's warranty on combustion chamber. Furnaces are CSA Certified.

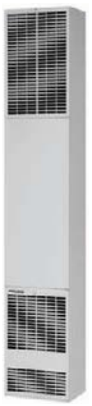
Top-Vent—Furnace can be installed on an inside or outside wall and vented through the roof.

Direct-Vent—Unit can be installed on an outside wall.

BtuH* Input	BtuH* Output	Ignition Type	Air Flow	Floor to Center of Vent	No. of Speeds	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
Top-Vent (Vented Through the Roof, Venting Not Included)												
35,000	28,000	Intermittent Spark	240 cfm	72½"	1	72½"	14⅛"	10¼"	3508232	**36FK10**	3508231	**36FK14**
35,000	28,000	Matchless Piezo	240 cfm	72½"	1	72½"	14⅛"	10¼"	3508632	**36FK11**	3508631	**36FK15**
50,000	40,000	Matchless Piezo	350 cfm	81"	2	81"	14⅛"	10¼"	5008632	**36FK13**	5008631	**36FK17**
Direct-Vent (Vented Through Outside Wall, Venting Up to a 9" Wall Included)												
40,000	32,000	Intermittent Spark	325 cfm	59"	1	77⅜"	14⅛"	11¾"	4007332	**36FK18**	4007331	**36FK22**
40,000	32,000	Matchless Piezo	325 cfm	59"	1	77⅜"	14⅛"	11¾"	4007732	**36FK19**	4007731	**36FK23**
55,000	42,500	Intermittent Spark	440 cfm	68½"	2	87"	14⅛"	11¾"	5507332	**36FK20**	—	—
60,000	47,000	Matchless Piezo	440 cfm	68½"	2	87"	14⅛"	11¾"	6007732	**36FK21**	6007731	**36FK25**

Accessories		
Vent Tube, 12" Wall Thickness	9806	**36FK67**
Oval Vent Starter Kit, For Use with All Forsaire Models	9929	**36FK69**
Side Outlet Register, 10" Boot	6701	**36FK72**
Vent Enclosure, 12"L	9812	**36FK75**
Vent Enclosure, 24"L	9824	**36FK76**
Vent Enclosure, 36"L	9836	**36FK77**

**** Ratings shown are for elevations to 2000 ft. For elevations above 2000 ft., ratings should be reduced by 4% for each additional 1000 ft. above sea level.***



No. 36FK10

Direct Vent (Through-the-Wall) Gas Gravity Heaters

WILLIAMS Comfort Products

- Piezo ignitor

Vent directly through outside wall. Sealed-combustion design draws in combustion air from outside and exhausts it outside through a single wall opening. Ideal for applications with direct access outside for venting including cabins, garages, living rooms, patios, porches, and sleeping areas. Features include 9"-dia. vent, ⅜" NPT gas connection, and vent material for walls up to 9" thick. White enamel, powder-coated exterior cabinet. Optional blower accessories provide fast heat circulation. 10-yr. manufacturer's warranty on combustion chambers. Heaters are CSA Certified.



No. 36FK26



No. 36FK27

BtuH* Input	BtuH* Output	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
Heaters								
14,000	10,200	26¾"	18"	7⅛"	1403822	**36FK26**	1403821	**36FK29**
22,000	16,462	28"	32⅛"	10¼"	2203822	**36FK27**	2203821	**36FK30**
30,000	21,000	28"	32⅛"	10¼"	3003822	**36FK28**	3003821	**36FK31**

Accessories		
Blower Accessory, 135 cfm, For Use With Mfr. No. 2209822, 2203821, 3003622, 3003621	2302	**36FK79**
Blower Accessory, 125 cfm, For Use With Mfr. No. 1409822, 1403821	2303	**36FK78**
Vent Extension, 15"L, For Use With Mfr. No. 2209822, 2203821, 3003822, 3003821	9301	**36FK81**
Vent Extension, 15"L, For Use With Mfr. No. 1409822, 1403821	9304	**36FK83**
Vent Extension, 24"L, For Use With Mfr. No. 2209822, 2203821	9302	**36FK80**
Vent Extension, 24"L, For Use With Mfr. No. 1409822, 1403821, 3003822, 3003821	9303	**36FK82**
Vent Cap Guard, For Use With Mfr. No. 1409822, 1403821, 2209822, 2203821, 3003822, 3003821	9308	**36FK68**

**** Ratings shown are for elevations to 2000 ft. For elevation above 2000 ft. ratings should be reduced by 4% for each additional 1000 ft. above sea level.***

Enclosed and Radiant-Front Vented Gas Console Heaters

WILLIAMS Comfort Products

- Piezo ignition
- Included thermostat

Combine the comfort and efficiency of radiant and circulated heat. No electricity required. 10-yr. manufacturer's warranty on combustion chambers. Perfect replacement for coal, oil, and wood heaters, and ideal for most locations where continuous power is an issue including cabins, sheds, and temporary housing. Can be used as a heat source in large and small areas and patios. ½" NPT gas connection. Black powder-coated exterior cabinet. Firelog Front models provide a fireplace-like glow. 35,000 to 65,000 BtuH models use optional Blower No. 36FK85. All heaters are CSA Certified.

BtuH* Input	Vent	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
Convection, Enclosed Front Console								
20,000	3"	21½"	23"	11"	2001622A	**36FK36**	2001621A	**36FK40**
35,000	4"	28⅛"	25"	15⅜"	3501522A	**36FK37**	3501521A	**36FK41**
50,000	4"	32⅛"	30"	16"	5001522A	**36FK38**	5001521A	**36FK42**
65,000	5"	32⅞"	34"	19⅝"	6501522A	**36FK39**	6501521A	**36FK43**
Radiant, Firelog Front Console (Firelogs Included)								
35,000	4"	28⅛"	25"	15⅜"	3502522A	**36FK44**	—	—
50,000	4"	32⅛"	30"	16"	5002522A	**36FK45**	—	—
65,000	5"	32⅞"	34"	19⅝"	6502522A	**36FK46**	—	—

Accessories		
Blower, For Use With Mfr. No. 3501521A, 3501522A, 3502521A, 3502522A, 5001521A, 5001522A, 5002521A, 5002522A, 6501521A, 6501522A, 6502521A, 6502522A	2102	**36FK85**
Floor Pad, For Use With Mfr. No. 5001521A, 5001522A, 5002521A, 5002522A, 6501521A, 6501522A, 6502521A, 6502522A	4163	**36FK86**



No. 36FK44

WARNING: Vented console heaters are designed to be vented in accordance with National Gas Fuel Code ANSI-Z223.1.

**** Ratings shown are for elevations to 2000 ft. For elevations above 2000 ft., ratings should be reduced by 4% for each additional 1000 ft. above sea level.***

Gas-Fired Unit Heaters

Dayton

- 120V
- Field convertible combustion type
- Direct spark ignition
- 83% thermal efficiency
- Tubular heat exchanger
- Power vented

All heaters are ETL and C-ETL Listed.


No. 55FG84

Propeller-Type—Low static pressure propeller heaters are designed to be suspended within the space to be heated. These heaters are not to be connected to ductwork.

Blower-Type—High static pressure centrifugal blower units are designed for heavy duty applications such as continuous operation or where a single unit heater must do the entire heating job in a large area. May be used with standard adjustable louvers, with short duct runs, or discharge nozzles for spot heating. Good for applications where low sound levels are required.

Pattern Angle	For Use With	Item No.
Nozzles		
30°	Sizes 100-150	**32V268**
30°	Sizes 175-250	**32V269**
30°	Sizes 300-400	**32V270**
60°	Sizes 100-150	**32V271**
60°	Sizes 175-250	**32V272**
60°	Sizes 300-400	**32V273**
90°	Sizes 100-150	**32V274**
90°	Sizes 175-250	**32V275**
90°	Sizes 300-400	**32V276**

BtuH Input*	Air Flow	Full Load Amps	Gas Connec.	Flue Dia.	O.C. Mounting	H	W	D	NG Item No.	LP Item No.
Propeller-Type										
150,000	2400 cfm	6.9	½"	5 in	18 ⅝ in	33¾"	25¼"	43½"	**55FG68**	**55FG77**
175,000	2850 cfm	8.0	½"	5 in	30 ⅝ in	33¾"	37¼"	43½"	**55FG69**	**55FG78**
200,000	3200 cfm	8.0	½"	5 in	30 ⅝ in	33¾"	37¼"	43½"	**55FG70**	**55FG79**
250,000	3450 cfm	8.0	¾"	5 in	30 ⅝ in	33¾"	37¼"	43½"	**55FG71**	**55FG80**
300,000	5000 cfm	11.6	¾"	6 in	48 ⅝ in	34"	55¼"	44¾"	**55FG72**	**55FG81**
350,000	5600 cfm	13.8	¾"	6 in	48 ⅝ in	34"	55¼"	44¾"	**55FG73**	**55FG82**
400,000	5800 cfm	13.8	¾"	6 in	48 ⅝ in	34"	55¼"	44¾"	**55FG74**	**55FG83**
Blower-Type										
100,000	1181 cfm	7.3	½"	5 in	18 ⅝ in	33¾"	25¼"	49¾"	**55FG84**	**55FG93**
125,000	1476 cfm	9.4	½"	5 in	18 ⅝ in	33¾"	25¼"	49⅜"	**55FG85**	**55FG94**
150,000	1771 cfm	9.4	½"	5 in	18 ⅝ in	33¾"	25¼"	49⅜"	**55FG86**	**55FG95**
175,000	2067 cfm	14.2	½"	5 in	30 ⅝ in	33¾"	37¼"	56⅛"	**55FG87**	**55FG96**
200,000	2362 cfm	14.2	½"	5 in	30 ⅝ in	33¾"	37¼"	56⅛"	**55FG88**	**55FG97**
250,000	2953 cfm	15.6	¾"	5 in	30 ⅝ in	33¾"	37¼"	56⅛"	**55FG89**	**55FG98**
300,000	3501 cfm	15.6	¾"	6 in	48 ⅝ in	34"	55¼"	53⅜"	**55FG90**	**55FG99**
350,000	4134 cfm	20.8	¾"	6 in	48 ⅝ in	34"	55¼"	56⅛"	**55FG91**	**55FH01**
400,000	4724 cfm	20.8	¾"	6 in	48 ⅝ in	34"	55¼"	56⅛"	**55FG92**	**55FH02**

** BtuH output: 83% input.*

Dayton

No. 2RYU7

Gas-Fired Low-Profile Unit Heaters



- 120V
- NG (LP conversion kit included)
- Direct spark ignition system
- Field-convertible for separated combustion application with approved vent kit
- Power venting allows horizontal venting through side walls
- Tubular heat exchanger and single burner design

Multitapped mounting rails allow multiple O.C. distances. ETL Listed in accordance with both Categories I and III venting requirements. Approved for installation in residential garage, commercial, and industrial applications. 24V thermostat required (not included); see page 3023.

Note: For altitudes above 2000 ft., consult owner's manual prior to installation for proper adjustments.

Use single- or double-wall vent pipe when venting vertically, or single-wall pipe when venting horizontally.

BtuH Input*	Air Flow	Full Load Amps	Gas Connec.	Flue Dia.	H	W	D†	HEATERS (NG/LP) Item No.	NOZZLES 30° Item No.	NOZZLES 60° Item No.	NOZZLES 90° Item No.
30,000	370 cfm	3.2	½"	4 in	12⅜"	30"	25⅞"	**2RYU7**	**5ZJU3**	**5ZJU9**	**5ZJV5**
45,000	550 cfm	3.2	½"	4 in	12⅜"	30"	25⅞"	**2RYU8**	**5ZJU3**	**5ZJU9**	**5ZJV5**
60,000	740 cfm	4.1	½"	4 in	15⅞"	30"	26⅜6"	**2RYU9**	**5ZJU4**	**5ZJV0**	**5ZJV6**
75,000	920 cfm	4.1	½"	4 in	15⅞"	30"	26⅜6"	**2RYV1**	**5ZJU4**	**5ZJV0**	**5ZJV6**
90,000	1100 cfm	6.4	½"	4 in	22⅝"	30"	26⅜"	**2RYV2**	**5ZJU5**	**5ZJV1**	**5ZJV7**
105,000	1300 cfm	6.4	½"	4 in	22⅝"	30"	26⅜"	**2RYV3**	**5ZJU5**	**5ZJV1**	**5ZJV7**
120,000	1475 cfm	6.4	½"	4 in	22⅝"	30"	26⅜"	**2RYV4**	**5ZJU5**	**5ZJV1**	**5ZJV7**

Description	For Use With	Item No.
Venting		
Horiz./Vert. Concentric	Low-Profile Gas Fired Propeller-Type Unit Heaters Sizes 030 to 075	**5ZJU1**
Horiz./Vert. Concentric	Low-Profile Gas Fired Propeller-Type Unit Heaters Sizes 090 to 120	**5ZJU2**

** BtuH output: 82% input. † Depth shown includes power venter motor on propeller-type models.*


No. 1VLC8


No. 1VLE8


No. 1VLD4


No. 1VLC6


No. 1VLE3

Dayton

Unit Heater Replacement Parts

For exact replacement information, call 1-800-GRAINGER (472-4643). On Grainger.com®, search by Grainger Item Number for a complete list of heater compatibility.

Description	Mfr. Part No.	Item No.
Blocked Vent Switch	11J11R02833-002	**1VLC8**
Fan Blade	11J34R06999-105	**1VLE8**
Fan Time Delay Switch	11J11R00366	**1VLD6**
High Limit Switch	11J11R00306-001	**1VLC3**
High Limit Switch	11J11R00306-002	**1VLD7**
LP Valve	11J28R04979-002	**1VLB8**
Main Burner Set	11502R01654-812	**1VLE6**
Motor, 1/20 HP	11J31R01871	**1VLC5**
Motor, Open Dripproof, 1/10 HP	11J31R04092	**1VLD1**
Motor, Open Dripproof, ¼ HP	11J31R04093-002	**1VLD4**
Motor, Totally Enclosed, 1/10 HP	11J31R03086	**1VLC6**
Motor, Totally Enclosed, ⅓ HP	11J31R01694	**1VLC9**
NG/LP Ignitor	11J28R02722	**1VLD8**
NG Pilot Burner	11J38R03421-001	**1VLD5**
NG Pilot Burner	11J38R04578-001	**1VLD9**
NG Valve	11J28R04980-003	**1VLB7**
NG Valve	11J28R02098-002	**1VLB9**
Nontubular Heat Exchanger	11602R05924-105	**1VLE3**
Nontubular Heat Exchanger	11602R05922-106	**1VLE4**
Nontubular Heat Exchanger	11602R05922-108	**1VLE5**
Power Venter Assembly	11J35R04700	**1VLD2**
Power Venter Assembly	11J35R04581	**1VLD3**

No. 55GY93



NEXUS

Gas-Fired High-Efficiency Unit Heaters

- 115VAC
- NG (LP conversion kit included)
- Field convertible combustion type
- Direct spark ignition
- Tubular heat exchanger
- Power vented

Heaters provide up to 99% maximum efficiency at full turndown with 95+% certified efficiency at high fire. This increased efficiency reduces emissions and fuel usage. Units auto-adjust the air/fuel mixture for altitude. ETL and C-ETL Listed.

BtuH Input	Air Flow	Full Load Amps	Gas Connec.	Flue Dia.	O.C. Mounting	H	W	D	Item No.
50,000	790 cfm	10.8	½"	2 in	28 in	13⅝"	42 13⁄16"	32⅝"	**55GY93**
100,000	1616 cfm	10.3	½"	2 in	27 15⁄16 in	18¾"	42 13⁄16"	38"	**55GY94**
150,000	2661 cfm	17.6	½"	2 in	38 in	18¾"	54 13⁄16"	41"	**55GY95**
200,000	3232 cfm	17.6	½"	3 in	38 in	18¾"	54 13⁄16"	42"	**55GY96**
300,000	4848 cfm	31.2	¾"	4 in	41 ¾ in	27⅛"	54 13⁄16"	42"	**55GY97**
400,000	6464 cfm	31.2	¾"	4 in	41 ¾ in	34⅞"	54 13⁄16"	42"	**55GY98**

Dayton

Vent-Free Gas Heaters

- Piezo ignitor for matchless pilot ignition

Require no electricity or outside venting, and are ideal for providing supplemental heating in smaller areas such as a basement or garage. Heaters have a cool-touch stainless steel cabinet and a stainless steel front grille. For safety, all units feature an oxygen depletion sensor that shuts off the heater when the device detects a reduction of oxygen in the room. CSA Certified.

Description	BtuH Output	Heating Area	Built-In Thermostat	H	W	L	Item No.
Blue Flame, LP/NG	10,000	300 sq ft	Yes	24 ¾ in	15 ¾ in	6 ⅜ in	12H992
	32,000	1,100 sq ft	Yes	25 in	27 ⅝ in	7 ⅞ in	12H993



No. 12H993

Gas-Fired High-Intensity Infrared Space Heaters

- Provide efficient, reliable infrared heat
- Electronic ignition; 100% automatic gas shutoff
- Noncorrosive aluminum and stainless steel construction
- Preassembled and ready to install

Compact modular heaters are great for spot heating and provide proven fuel savings over unit heaters. High-intensity ceramic burners generate concentrated infrared energy, which is directed to floor level to warm people, objects, and the surrounding air. Feature highly polished aluminum reflector, water-resistant circuitry, and mounting chain.

Dayton

Installation information: ½" NPT gas inlet. Natural or mechanical ventilation required. Heaters are CSA Certified for U.S. and Canada.

Note: Not for residential use. Must mount 20° to 35° from horizontal, preferably facing inward around the perimeter of the heated area.

BtuH Input	H	W	D	Radiant Surface	Typical Sq. Ft. Coverage @ Mtg. Ht.	Clearance to Combustibles Below/ Top	Front	Side	Behind	GAS TYPE - CONTROL VOLTAGE NG 120 V AC Item No.	NG 24 V AC Item No.	LP 120 V AC Item No.	LP 24 V AC Item No.
Heaters													
30,000	22½"	12¾"	14¼"	85 sq. in.	145-200 @ 12-14 ft.	28"	72"	30"	18"	3E132	5VD61	3E460	5VD62
60,000	22½"	19⅛"	15¼"	170 sq. in.	325-400 @ 14-16 ft.	40"	72"	32"	18"	3E133	5VD63	3E461	5VD64
90,000	22½"	26⅝"	15¼"	255 sq. in.	575-785 @ 16-18 ft.	42"	98"	48"	30"	3E134	5VD65	3E462	5VD66

Description	For Use With	Item No.
Replacement Parts		
3-Prong Electrode	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), 5VD61 to 5VD66	1FEK9
Circuit Board, 120V	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), Note: Requires 1FEK4	1FEK3
Circuit Board, 24V	5VD61 to 5VD66, Note: Requires 1FEK8	1FEK6
High Intensity Rayhead	3E132 to 3E134, 3E461, 3E462, 5VD61, 5VD63 to 5VD66	1FEL1
High Voltage Wire	3E132E, 3E133E, 3E134E, 3E460C, 3E461C, 3E462C, 5VD61A, 5VD62A, 5VD63A, 5VD64A, 5VD65A, 5VD66A	24KR77
Natural Gas Valve, 120V	3E132 to 3E134 (C, D, E)	1FEK1
Natural Gas Valve, 24V	5VD61, 5VD63, 5VD65 (All Models)	1FEK5
Propane Gas Valve, 120V	3E460 to 3E462 (B, C)	1FEK2
Propane Gas Valve, 24V	5VD62, 5VD64, 5VD66 (All Models)	1FEK7
Wiring Harness, 120V	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), (Mates to 1FEK3)	1FEK4
Wiring Harness, 24V	5VD61 to 5VD66 (Mates to 1FEK6)	1FEK8



No. 3E134

Gas-Fired Infrared Tube Heaters

Dayton

- Quiet, clean infrared tube heating is more energy efficient than unit heaters
- Designed for hard-to-heat environments
- Aluminized steel and aluminum construction
- Easy-to-install slip-fit design

Highly polished reflector adjusts from 0° to 45° to direct energy to floor level, and provide optimal heat coverage. Units are equipped to accept outside combustion air from sidewall in dirty or contaminated environments using inlet cap No. 3F837 (sold separately). Use in factories, warehouses, loading docks, aircraft hangars, auto service garages, ice rinks, workshops, patios, etc. Approved for vented (sidewall or roof) and unvented use. Two units may be commonly sidewall vented using No. 2F211 (sold separately) and controlled by a single thermostat (see page 3024). Units can be installed in L or U configurations using No. 3TZ71 or No. 3F835 (sold separately). All models include mounting chains, stainless steel flexible gas connector, and gas shutoff. Heaters are CSA Certified for U.S. and Canada.

Note: Heaters are not for residential use.



No. 7D839

BtuH Input	H	W	Radiant Pipe	Min. Mounting Height	Clearance to Combustibles (in.) Top 0°	Below 0°	Sides 0°	Top 45°	Front 45°	Behind 45°	NG Item No.	LP Item No.
Heaters, 4" O.D. Radiant Tubing, 120V, 60 Hz, 1.1A Running, 4.8A Starting												
50,000	8½"	18⅛"	20 ft.	10 ft.	6	47	9	10	39	8	7D837	7D838
75,000	8½"	18⅛"	20 ft.	13 ft.	6	60	9	10	39	8	7D839	7D840
100,000	8½"	18⅛"	30 ft.	15 ft.	6	66	14	10	39	8	7D841	7D842
100,000	8½"	18⅛"	40 ft.	15 ft.	6	66	14	10	39	8	7D843	7D844
125,000	8½"	18⅛"	40 ft.	15 ft.	6	76	20	10	58	8	7D845	7D846
150,000	8½"	18⅛"	40 ft.	16 ft.	6	81	24	10	58	8	7D847	7D848
150,000	8½"	18⅛"	60 ft.	16 ft.	6	81	24	10	58	8	7D849	7D851
150,000	8½"	18⅛"	50 ft.	15 ft.	6	81	24	10	58	8	7AR80	7AR79
175,000	8½"	18⅛"	50 ft.	17 ft.	6	92	34	10	63	8	7AR83	7AR81
175,000	8½"	18⅛"	60 ft.	17 ft.	6	92	34	10	63	8	7AR84	7AR82
200,000	8½"	18⅛"	50 ft.	18 ft.	6	94	41	10	63	8	7AR87	7AR85
200,000	8½"	18⅛"	60 ft.	18 ft.	6	94	41	10	63	8	7AR88	7AR86

Description	Item No.
Accessories	
10-ft. Tube and Reflector Extension (10-ft. Tube, Reflector, Tube Clamp, and 1 Wire Hanger), Max. 1 per Heater	3VH27
180° U-Bend Fitting, Configures Heater into a U-Shape, 16 ga., 4" O.D., Max. 1 per Heater	3F835
4" Sidewall Venting Kit, (Includes 4" Sidewall Vent Cap, 4" Wall Thimble, 18" B-Vent, and B to C Adapter); Single Venting	2C448
5-ft. Tube and Reflector Extension (Includes 5-ft. Tube, Reflector, Tube Clamp, and 1 Wire Hanger), Max. 1 per heater	5VD87
6" Sidewall Venting Kit, (Includes 6" Sidewall Vent Cap, 6" Wall Thimble, 18" B-Vent, and B to C Adapter); Common Venting	2F211
90° Elbow Pipe Fitting, Converts Heater into L-Shape, 16 ga., 4" O.D., Max. 2 per Heater	3TZ71
Angle Mounting Bracket for Presetting Reflector Angles at 15°, 30°, or 45° (1 per hanger required)	5VD54
Dual Exhaust Assembly, Y-Shaped Fitting, 4 x 4 x 6" O.D.,16 ga., Aluminized Steel, for Common Venting 2 Heaters	3F817
Outside Combustion Air Inlet Cap, 4" O.D. with Bird Screen, Mounts to Building Sidewall	3F837
Reflector "U", Highly Polished Aluminum, Covers No. 3F835 U-Bend Fitting for Continuous Reflector Run	5VD84
Reflector Elbow, Highly Polished Aluminum, Covers No. 3TZ71 L-Bend Fitting for Continuous Reflector Run	5VD83
Single Mount Bracket, Attaches to Parallel Tubes in U-Configuration, Reduces Suspension Points and Assures Uniform Spacing	5VD85
Unvented Outlet Cap, 4" O.D. with Flapper, Ensures Proper Safety Switch Operation for Unvented Installation	3F839

Description	For Use With	Item No.
Replacement Parts		
Burner Box Fan	5VD67 to 5VD80, 7D837 to 7D851 (All Models)	1FYA9
Circuit Board, 120V	5VD67 to 5VD80, 7D837 to 7D851 (Note: Requires 1FYA8)	1FYA7
Hot Surface Igniter	5VD67 to 5VD80, 7D837 to 7D851 (All Models)	1FYA6
Wiring Harness,120V	5VD67 to 5VD80, 7D837 to 7D851, (Mates to 1FYA7)	1FYA8

No. 36FK50



WILLIAMS Comfort Products

In-Floor Vented Gas Heaters

- Piezo ignition
- Wall thermostat included

No electricity required. Heaters can provide large room or even whole home comfort, and are ideal for original or replacement heating. Can be used for primary residences, but are suitable for most locations where continuous power is an issue including cabins, sheds, and temporary housing. Equipped with an automatic grille temperature control. 10-yr. manufacturer's warranty on combustion chambers. CSA Certified.

BtuH* Input	Grille Size	Floor Opening	Vent	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
45,000	32 in x 24 in	24¼" x 32⅜"	4"	28½"	32"	24"	4505622A	**36FK50**	4505621A	**36FK52**
60,000	42 in x 24 in	24¼" x 42⅜"	4"	28½"	42"	24"	6005622A	**36FK51**	6005621A	**36FK53**

**** Ratings shown are for elevations to 2000 ft. For elevations above 2000 ft., rating should be reduced by 4% for each 1000 ft. above sea level.***

No. 36FK32



WILLIAMS Comfort Products

High-Efficiency Direct-Vent Gas Heaters

Can warm rooms up to 2000 sq. ft. Heaters can be mounted on outside walls up to 19" thick. Feature a sealed combustion chamber, programmable timers, and summertime ventilation. The innovative wall mount design uses no floor space. CSA Certified.

BtuH* Input	H	W	D	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
17,000	28⅛"	21¾"	8¼"	1773512	**36FK32**	1773511	**36FK34**

**** Ratings shown are for elevations to 2000 ft. For elevations above 2000 ft., ratings should be reduced by 4% for each additional 1000 ft. above sea level.***



Water/Steam, Header-Type Coil



Water-Only, Serpentine Coil



Vertical Louver Kit

Dayton

Suspended Horizontal Hydronic Unit Heaters

- 115V
- Max. operating pressure: 150 psi

Each manufactured coil is submersion tested at 200 psi to assure coil is leak-free. Air flow is directed by manually adjustable louver blades. ETL Listed. Motors smaller than ⅓ HP are totally enclosed; ⅓- to ½-HP are open frame. Suitable for use in heating warehouses, manufacturing facilities, garages, and other large, open, nonexplosive, noncorrosive areas.

Note: Units having non-OSHA-type fan guards must be mounted at least 8 ft. above the floor.

WATER/STEAM

Header coil construction elements and heavy-wall tubing. Element tubes are brazed into the extruded header junctions. Pipe connection saddles are made of cast bronze and are brazed to the copper headers.

WATER-ONLY

Serpentine coil construction. Tubing is ⅜" copper. Requires ½" I.D. fitting for connection.

Output @ 2 psi Steam	Output @ 200°F Water	Max. Operating (psi)	Air Flow	Motor HP	Amps	Inlet/Outlet NPT	H	W	D	Mounting Height	OSHA FAN GUARD Item No.	NON-OSHA FAN GUARD Item No.	OPTIONAL VERTICAL LOUVER KIT Item No.
Water/Steam, Header-Type Coil Construction													
18,000 BtuH	13,050 BtuH	150	395 cfm	16W	0.8	1 ¼ in	15"	14⅝"	9⅜"	8 ft.	**5PV31**	—	**5ZKC0**
24,000 BtuH	17,400 BtuH	150	450 cfm	16W	0.8	1 ¼ in	18"	14⅝"	9⅜"	8 ft.	**3DUF7**	—	**5ZKC1**
36,000 BtuH	26,100 BtuH	150	550 cfm	25W	1.2	1 ¼ in	18"	14⅝"	9⅜"	9 ft.	**5PV43**	—	**5ZKC2**
48,000 BtuH	34,800 BtuH	150	750 cfm	⅓20	1.4	1 ¼ in	20½"	17⅛"	11 1⁄16"	9 ft.	**5PV46**	—	**5ZKC3**
60,000 BtuH	43,600 BtuH	150	900 cfm	⅓20	1.4	1 ¼ in	20½"	17⅛"	10 15⁄16"	10 ft.	**5PV48**	**5PV47**	**5ZKC4**
72,000 BtuH	52,300 BtuH	150	1100 cfm	⅓20	1.4	1 ¼ in	21¾"	18⅜"	11 1⁄16"	10 ft.	**5PV50**	**5PV49**	**5ZKC5**
84,000 BtuH	61,000 BtuH	150	1400 cfm	⅓12	2.2	1 ¼ in	24¼"	20⅞"	11 13⁄16"	10 ft.	**5PV51**	**5YH20**	**5ZKC6**
96,000 BtuH	69,700 BtuH	150	1400 cfm	⅓12	2.2	1 ½ in	24"	19⅝"	13 13⁄16"	11 ft.	**5PV53**	**5PV52**	**5ZKC7**
108,000 BtuH	78,400 BtuH	150	1800 cfm	⅓12	2.2	1 ½ in	24"	19⅝"	13 13⁄16"	11 ft.	**5PV16**	**5PV15**	**5ZKC8**
120,000 BtuH	87,100 BtuH	150	1900 cfm	⅓	4.5	1 ½ in	25¼"	20⅞"	13"	12 ft.	**5PV20**	**5YH19**	**5ZKC9**
132,000 BtuH	95,800 BtuH	150	2000 cfm	⅓	4.5	1 ½ in	27¾"	23⅜"	14"	13 ft.	**5PV24**	**5PV23**	**5ZKD0**
144,000 BtuH	104,000 BtuH	150	2200 cfm	⅓	4.5	1 ½ in	27¾"	23⅜"	14"	13 ft.	**5PV28**	**5PV27**	**5ZKD1**
156,000 BtuH	113,000 BtuH	150	2600 cfm	⅓	4.5	1 ½ in	27¾"	23⅜"	13¾"	13 ft.	**5PV30**	**5PV29**	**5ZKD2**
180,000 BtuH	118,000 BtuH	150	2200 cfm	⅓	4.5	1 ½ in	29"	24⅝"	13¾"	13 ft.	**5PV33**	**5PV32**	**5ZKD3**
204,000 BtuH	148,000 BtuH	150	2900 cfm	⅓	4.5	1 ½ in	29"	24⅝"	13¾"	13 ft.	**5PV35**	**5PV34**	**5ZKD4**
240,000 BtuH	174,000 BtuH	150	3500 cfm	⅓	4.5	2 in	30¼"	27⅛"	14"	14 ft.	**1EBC1**	**4NHG4**	**5ZKD5**
280,000 BtuH	209,100 BtuH	150	4200 cfm	½	5.4	2 in	30¼"	27⅛"	17¾"	14 ft.	**1EBC2**	**4NHG5**	**5ZKD6**
300,000 BtuH	230,000 BtuH	150	5000 cfm	½	5.4	2 in	37¾"	33⅜"	18⅝"	15 ft.	**1EBC3**	**4NHG6**	**5ZKD7**
360,000 BtuH	261,300 BtuH	150	5500 cfm	½	5.4	2 in	37¾"	33⅜"	18⅝"	15 ft.	**1EBC4**	**5PV45**	**5ZKD8**
Water-Only, Serpentine-Type Coil Construction													
—	18,400 BtuH	150	500 cfm	16W	0.8	⅜ in	16"	18"	9½"	8 ft.	**5PV19**	—	**5ZKD9**
—	24,800 BtuH	150	580 cfm	25W	1.2	⅜ in	16"	18"	9½"	9 ft.	**5PV22**	—	**5ZKE0**
—	35,900 BtuH	150	850 cfm	⅓20	1.4	⅜ in	18½"	20½"	10 15⁄16"	9 ft.	**5PV26**	—	**5ZKE1**
—	8030 BtuH	150	245 cfm	16W	0.8	⅜ in	16"	18"	9½"	8 ft.	**5YH18**	—	**5ZKE2**

Suspended Vertical Hydronic Unit Heaters

Dayton®

- Max. operating pressure: 75 psi

Each manufactured coil is submersion tested at 375 psi to assure coil is leak-free. Air ports are stamped into the top plate for easy conversion of low-output units. For use in spot heating, assembly lines, warehouses, manufacturing facilities, garages, high bays, and any large open areas. Fan guard sold separately, this page. Single-phase motors are 115V; 3-phase motors are 230/460V. All are ETL Listed.

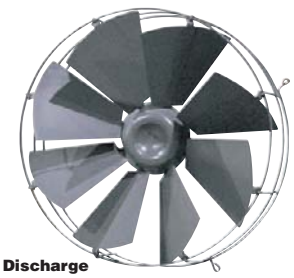
Accessories—OSHA-type fan guards are for applications under 8 ft. in mounting height. Discharge diffusers help direct the discharge to the floor. OSHA guard and diffuser cannot be mounted on the same unit.



Vertical Hydronic Heater



OSHA Fan Guard



Discharge Diffuser

Output @ 2 psi Steam	Output @ 200°F Water	Air Flow	Motor HP	Amps	Phase	Inlet/ Outlet NPT	H	W	D	Mounting Height	Item No.
Hydronic Unit Heaters											
41,300 BtuH	22,700	595 cfm	1/40	1.2	1	1 ½ in	10⅝"	18¼"	18¼"	11 ft.	**5PV63**
65,500 BtuH	39,600	989 cfm	1/20	2.1	1	1 ½ in	11⅛"	21¼"	21¼"	12 ft.	**5PV66**
80,600 BtuH	48,400	1200 cfm	1/20	2.1	1	1 ½ in	11⅜"	21¼"	21¼"	15 ft.	**5PV68**
101,800 BtuH	68,300	1490 cfm	⅛	1.2	1	1 ½ in	12⅛"	25¼"	25¼"	14 ft.	**5PV54**
124,400 BtuH	83,700	1790 cfm	1/6	2.3	1	1 ½ in	12¾"	25¼"	25¼"	16 ft.	**5PV55**
152,000 BtuH	105,200	2220 cfm	1/6	2.3	1	2 in	13⅜"	29½"	29½"	16 ft.	**5PV56**
173,000 BtuH	118,600	2620 cfm	1/6	2.3	1	2 in	14⅛"	29½"	29½"	18 ft.	**5PV57**
210,200 BtuH	139,700	3200 cfm	¼	3.6	1	2 in	16"	29½"	29½"	22 ft.	**5PV58**
249,800 BtuH	180,100	4180 cfm	¼	3.6	1	2 in	15⅛"	37½"	37½"	20 ft.	**5PV59**
283,800 BtuH	205,400	4430 cfm	½	5.4	1	2 in	15¼"	37½"	37½"	21 ft.	**5PV60**
333,400 BtuH	242,900	5210 cfm	¾	3.2	3	2 in	16¾"	37½"	37½"	24 ft.	**5PV61**
386,000 BtuH	280,800	6140 cfm	¾	3.2	3	2 in	17⅝"	37½"	37½"	28 ft.	**5PV62**
496,000 BtuH	368,100	8020 cfm	1½	5.00	3	2 ½ in	17¼"	42"	42"	29 ft.	**5PV64**
585,000 BtuH	431,100	9450 cfm	1½	5.00	3	2 ½ in	20¾"	42"	42"	34 ft.	**5PV65**
705,000 BtuH	519,400	11,000 cfm	3	9.8	3	2 ½ in	24¼"	42"	42"	38 ft.	**5PV67**

For Use With	OSHA FAN GUARD Item No.	DISCHARGE DIFFUSER Item No.
Accessories		
5PV63	**5PV72**	**5PV78**
5PV66, 5PV68	**5PV74**	**5PV80**
5PV54, 5PV55	**5PV69**	**5PV75**
5PV56, 5PV57, 5PV58	**5PV70**	**5PV76**
5PV59, 5PV60, 5PV61, 5PV62	**5PV71**	**5PV77**
5PV64, 5PV65, 5PV67	**5PV73**	**5PV79**

Gas-Fired Whole-House Hot Water & Steam Boilers

Cast-iron heat exchanger is assembled with push nipples and stainless steel burners.

ARUBA 4 Series—Low-profile, compact design with built-in draft diverter and the aquastat mounted directly into the heat exchanger. Spill switch detects blocked vent. AHRI, ASME, and ETL and C-ETL Listed.

BERMUDA Series—Low-profile, compact design with built-in draft diverter. Spill switch detects blocked vent. AHRI, ETL Listed, ASME.

BALI Series—Integral draft fan system allows venting through a side wall. The aquastat is mounted directly into the heat exchanger. Pressure switch detects blocked vent. AHRI, ASME, and ETL and C-ETL Listed.



No. 6DKG1

AHRI Net BtuH	Boiler Heating Capacity	BtuH Input	Ignition Type	AFUE	Pipe Size Return	Pipe Size Supply	Gas Connec.	Vent Dia.	NG Mfr. Model	NG Item No.	LP Mfr. Model	LP Item No.
ARUBA 4 Series												
51,000 BtuH	58,000 BtuH	70,000	Electronic	84.0 %	1 ¼ in	1 ¼ in	½ in	4 in	AWR070BNST3PSU	**6DKG2**	AWR070BLST3PSU	**6DKG1**
77,000 BtuH	87,000 BtuH	105,000	Electronic	84.0 %	1 ¼ in	1 ¼ in	½ in	5 in	AWR105BNST3PSU	**6DKG4**	AWR105BLST3PSU	**6DKG3**
102,000 BtuH	117,000 BtuH	140,000	Electronic	84.0 %	1 ¼ in	1 ¼ in	½ in	6 in	AWR140BNST3PSU	**6DKG6**	AWR140BLST3PSU	**6DKG5**
BERMUDA Series												
64,000 BtuH	85,000 BtuH	103,000	Electronic	82 %	2 in	2 in	½ in	5 in	BSI103ENPZZPSU	**6DKG8**	BSI103ELPZZPSU	**6DKG7**
85,000 BtuH	113,000 BtuH	138,000	Electronic	82 %	2 in	2 in	½ in	6 in	BSI138ENPZZPSU	**6DKH0**	BSI138ELPZZPSU	**6DKG9**
107,000 BtuH	142,000 BtuH	172,000	Electronic	82.1 %	2 in	2 in	½ in	6 in	BSI172ENPZZPSU	**6DKH2**	BSI172ELPZZPSU	**6DKH1**
BALI Series												
44,000 BtuH	51,000 BtuH	61,000	Electronic	83.3 %	1 ¼ in	1 ¼ in	½ in	3 in	BWF061ENST2PSU	**6DKH8**	BWF061ELST2PSU	**6DKH7**
68,000 BtuH	78,000 BtuH	95,000	Electronic	83.1 %	1 ¼ in	1 ¼ in	½ in	3 in	BWF095ENST2PSU	**6DKJ0**	BWF095ELST2PSU	**6DKH9**
92,000 BtuH	106,000 BtuH	128,000	Electronic	82.8 %	1 ¼ in	1 ¼ in	½ in	3 in	BWF128ENST2PSU	**6DKJ2**	BWF128ELST2PSU	**6DKJ1**

Oil-Fired Whole-House Hot Water & Steam Boilers

- Swing-open cast-iron burner door for easy service

Freeport Series—For residential and light commercial hot water heating systems. Circulates hot flue gases through the heat exchanger 3 times for optimum efficiency. Three-pass block design for full access to flue passages. Has Honeywell hi-limit combination aquastat relay and flame retention Beckett oil burner. AHRI, ASME, and ENERGY STAR qualified.

Tobago Series—For residential and light commercial hot water heating systems. Wet-base cast-iron heat exchanger surrounds combustion chamber for optimum heat transfer. Vertical section design. Features Honeywell combination aquastat relay. Can supply domestic hot water on demand. AHRI, ASME.

Kingston Series—For residential and light commercial steam heating systems. Wet-base cast-iron heat exchanger surrounds combustion chamber for optimum heat transfer. Vertical section design. Features probe-type low water cut-off. Equipped with connections to add indirect water heater for domestic hot water. AHRI, ASME.



No. 6DKJ5

AHRI Net BtuH	Boiler Heating Capacity	Ignition Type	AFUE	Pipe Size Return	Pipe Size Supply	Burner Cap.	Vent Dia.	WITH COIL Mfr. Model	WITH COIL Item No.	LESS COIL Mfr. Model	LESS COIL Item No.
Freeport Series											
84,000	97,000 BtuH	Flame Retention	86.3%	1½"	1½"	0.80 gph	5"	—	—	FWZ080BOLT1SSU	**6DKJ3**
107,000	123,000 BtuH	Flame Retention	87.0%	1½"	1½"	1.00 gph	6"	—	—	FWZ100BOLT1SSU	**6DKJ4**
Tobago Series											
79,000	91,000 BtuH	Flame Retention	85.8%	1½"	1½"	0.75 gph	6"	TWZ075BOTT4PSU	**6DKK2**	TWZ075BOLT4PSU	**6DKK1**
104,000	120,000 BtuH	Flame Retention	84.3	1½"	1½"	1 gph	6"	TWZ100BOTT4PSU	**6DKK4**	TWZ100BOLT4PSU	**6DKK3**
132,000	152,000 BtuH	Flame Retention	85.1%	1½"	1½"	1.25 gph	7"	TWZ125BOTT4PSU	**6DKK6**	TWZ125BOLT4PSU	**6DKK5**
Kingston Series Steam Boilers											
89,000	119,000 BtuH	Flame Retention	83.5%	1½"	3"	1 gph	6"	KSZ100BOPT2PSU	**6DKJ5**	KSZ100BOPZ2PSU	**6DKJ6**
133,000	177,000 BtuH	Flame Retention	83.1%	1½"	3"	1.50 gph	7"	KSZ150BOPT2PSU	**6DKJ7**	KSZ150BOPZ2PSU	**6DKJ8**


No. 5E295

Commercial Hydronic Baseboard Heaters

- Copper heater elements: max. pressure 194 psi at 300°F
- Steel heater elements: max. pressure 660 psi at 650°F

2-pc. design for simple installation; order heater element and enclosure separately. Sloped top prevents blocking of louvers. Enclosures and accessories have primed finish suitable for painting. Enclosures include top panel, front panel, partial back-plate, adjustable hangers with hardware, slide cradles, and brackets. Suitable for hot water or steam heating systems.

Note: Endcaps and accessories sold separately.

L	Fin Material	Tubing Material	Tube Size	Inlet/ Outlet NPT	Output @ 2 PSI Steam	Max. Heat/ Linear ft. @ 180°F Water Temp.	Max. Heat/ Linear ft. @ 200°F Water Temp.	Mfr. Model	Item No.
Heater Elements									
3 ft.	Aluminum	Copper	1¼"	1 ¼ in	2130/2510 BtuH	1470/1730 BtuH	1830/2160 BtuH	STC14353-03	**5E301**
4 ft.	Aluminum	Copper	1¼"	1 ¼ in	2130/2510 BtuH	1470/1730 BtuH	1830/2160 BtuH	STC14354-04	**5E302**
5 ft.	Aluminum	Copper	1¼"	1 ¼ in	2130/2510 BtuH	1470/1730 BtuH	1830/2160 BtuH	STC14355-05	**5E303**
6 ft.	Aluminum	Copper	1¼"	1 ¼ in	2130/2510 BtuH	1470/1730 BtuH	1830/2160 BtuH	STC14356-06	**5E304**
3 ft.	Steel	Steel	1¼"	1 ¼ in	1600/2250 BtuH	1080/1640 BtuH	1350/2040 BtuH	ST1443-03	**5E305**
4 ft.	Steel	Steel	1¼"	1 ¼ in	1600/2250 BtuH	1080/1640 BtuH	1350/2040 BtuH	ST1444-04	**5E306**
5 ft.	Steel	Steel	1¼"	1 ¼ in	1600/2250 BtuH	1080/1640 BtuH	1350/2040 BtuH	ST1445-05	**5E307**
6 ft.	Steel	Steel	1¼"	1 ¼ in	1600/2250 BtuH	1080/1640 BtuH	1350/2040 BtuH	S144032-0600	**5E308**

Cabinet Width	Cabinet Depth	1-ELEMENT 14"H Mfr. Model	1-ELEMENT 14"H Item No.	2-ELEMENT 20"H Mfr. Model	2-ELEMENT 20"H Item No.
Assembled Baseboard Enclosures					
36"	5 5/16"	TP14-03	**5E295**	TP20-03	**4LX69**
48"	5 5/16"	TP14-04	**5E296**	TP20-04	**4LX70**
60"	5 5/16"	TP14-05	**5E297**	TP20-05	**4LX71**
72"	5 5/16"	TP14-06	**5E298**	TP20-06	**4LX72**
84"	5 5/16"	TP14-07	**5E299**	TP20-07	**4LX73**
96"	5 5/16"	TP14-08	**5E300**	TP20-08	**4LX74**

Description	1-ELEMENT 14"H Mfr. Model	1-ELEMENT 14"H Item No.	2-ELEMENT 20"H Mfr. Model	2-ELEMENT 20"H Item No.
Accessories				
Wall Sleeve (4"W)	TP14-WS4	**5E313**	TP20-WS4	**4LX79**
End Cover L.H.	TP14-EC3L	**5E309**	TP20-EC3L	**4LX75**
End Cover R.H.	TP14-EC3R	**5E310**	TP20-EC3R	**4LX76**
Inside Corner 90°	TP14-IC90	**5E311**	TP20-IC90	**4LX77**
Outside Corner 90°	TP14-OC90	**5E312**	TP20-OC90	**4LX78**


No. 4NHX7

Water Flow Rate gpm	Heating Capacity (BtuH/Lin. ft.) 170°	180°	190°
1	660	750	840

CLASSIC BASEBOARD

Architectural Hydronic Baseboard Heaters

Rugged high-capacity heaters feature ¾" copper pipe with aluminum fins, 18-ga. front panel, and aluminum grille. Floor-mounted and white semigloss finish. 9⅛"H x 3⅜"D. Enclosures include back panel, support brackets, and element slide cradles.

Note: 5-, 6-, and 8-ft. lengths include joining piece sets. Endcaps and accessories sold separately.

L	Mfr. Model	Item No.
Assembled Baseboard Enclosures		
24¾"	CLCU75-2	**4NHY4**
36¾"	CLCU75-3	**4NHY3**
48¾"	CLCU75-4	**4NHY2**
60¾"	CLCU75-5	**4NHY1**
72¾"	CLCU75-6	**4NHX9**
84¾"	CLCU75-7	**4NHX8**
96¾"	CLCU75-8	**4NHX7**

Description	Mfr. Model	Item No.
Accessories		
4" Hinged End Cap, Left Hand	CL-LEC	**4NHX3**
4" Hinged End Cap, Right Hand	CL-REC	**4NHX2**
3" Solid End Cap, Left Hand	CL-3LEC	**4NHX1**
3" Solid End Cap, Right Hand	CL-3REC	**4NHW9**
90° Inside Corner	CL-IC	**4NHX4**
90° Outside Corner	CL-OC	**4NHX5**
4" Wall Trim (to Floor)	CL-WJ	**4NHX6**


No. 4E448

Beacon/Morris

Kickspace Hydronic Heaters

- ½" supply and return connections
- Require ½" I.D. fitting
- High/Off/Low switch

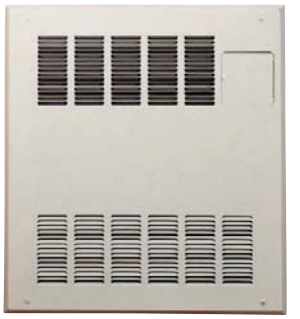
TwinFlo III® heaters provide an alternative to baseboard units in limited space. Can be installed in recessed, surface-mount cabinets. 115V, 60 Hz. UL Listed and CSA Certified.

Water Temp. (°F)	Water flow rate of 1 gpm** 4E448	4E449
Heating Capacity BtuH 65°F Entering Air‡		
140	2590	5540
160	3510	7000
180	4278	8460
Friction Loss	0.17 ft.	0.22 ft.

** Correction factor for low speed is 0.89 for No. 4E448 and 0.83 for No. 4E449.
‡ Additional heating capacity/water temp. info available on Grainger.com® (search by Grainger Item Number).

Amps AC	Air Flow	H	W*	D	Mfr. Model	Item No.
0.5	53 cfm	4"	12¼"	12¾"	K42	**4E448**
0.5	103 cfm	4"	19¼"	12¾"	K84	**4E449**

Width includes an additional 2" clearance to combustible materials per UL requirements.


No. 4E450




No. 4E452

Beacon/Morris

In-Floor and Wall Cabinets for Kickspace Hydronic Heaters

Allow kickspace heaters to be mounted as flush or surface wall units, or as in-floor heaters, and allow control access. Cameo white finish. In-floor kits are for installation between floor joists with 16" on-center construction. Recessed wall installation requires 4" depth.

Item	Mounting Type	Fits Heaters	Cabinet Height	Cabinet Width	Cabinet Depth	Cut Out H Req.	Cut Out W Req.	Mfr. Model	Item No.
In-Floor Cabinet	Recess	Mfr. No. K42	11"	14 15/32"	14 15/32"	13¾"	6"	FK42	**5E314**
	Recess	Mfr. No. K84	11"	21 15/32"	14 15/32"	21¾"	6"	FK84	**5E315**
Wall Cabinet	Recess	Mfr. No. K42	25"	16"	½"	22⅛"	14½"	W42	**4E450**
	Recess	Mfr. No. K84	25"	23"	½"	22⅛"	21¼"	W84	**4E451**
	Surface	Mfr. No. K42	24"	18"	4⅜"	—	—	F42	**4E452**
	Surface	Mfr. No. K84	24"	22"	4⅜"	—	—	F84	**4E453**

Goodman
Air Conditioning & Heating

Residential Gas Furnaces

Self-diagnostic control board. ETL Listed and AHRI Certified.

96% AFUE Furnaces— Aluminized steel tubular heat exchanger and stainless steel secondary exchanger. Feature quiet, single-speed induced draft blower and a durable silicon nitride igniter. Constant memory fault code history output to LED.

80% AFUE Furnaces— Aluminized steel dual-diameter tubular heat exchanger. Include quiet, multi-speed ECM blower motor and durable hot surface mini-igniter.

Input (BtuH)	Output (BtuH)	Avail. Cooling Tons	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
96% AFUE Upflow							
40,000	38,440	1 to 3	34½	14	28¾	GMES960403AN	**55JR53**
60,000	57,660	1 to 3	34½	17½	28¾	GMES960603BN	**55JR54**
80,000	76,880	1 to 3	34½	17½	28¾	GMES960803BN	**55JR55**
80,000	76,880	1 to 4	34½	21	28¾	GMES960804CN	**55JR56**
80,000	76,880	1 to 5	34½	21	28¾	GMES960805CN	**55JR57**
100,000	96,100	1 to 5	34½	21	28¾	GMES961005CN	**55JR58**
120,000	115,320	1 to 5	34½	24½	28¾	GMES961205DN	**55JR59**
96% AFUE Downflow							
40,000	38,440	1 to 3	34½	17½	28¾	GCES960403BN	**55JR60**
60,000	57,660	1 to 3	34½	17½	28¾	GCES960603BN	**55JR61**
80,000	76,880	1 to 4	34½	21	28¾	GCES960804CN	**55JR62**
100,000	95,000	1 to 5	34½	21	28¾	GCES961005CN	**55JR63**
120,000	114,000	1 to 5	34½	24½	28¾	GCES961205DN	**55JR64**
80% AFUE Upflow							
40,000	32,000	1 to 3	33⅜	14	28	GMES800403AN	**55JR31**
60,000	48,000	1 to 3	33⅜	14	28	GMES800603AN	**55JR32**
60,000	48,000	1 to 4	33⅜	17½	28	GMES800604BN	**55JR33**
80,000	64,000	1 to 4	33⅜	17½	28	GMES800804BN	**55JR34**
80,000	64,000	1 to 5	33⅜	21	28	GMES800805CN	**55JR35**
100,000	80,000	1 to 5	33⅜	21	28	GMES801005CN	**55JR36**
120,000	96,000	1 to 5	33⅜	24½	28	GMES801205DN	**55JR37**
80% AFUE Downflow							
40,000	32,000	1 to 3	33⅜	14	28	GCES800403AN	**55JR44**
40,000	32,000	1 to 3	33⅜	14	28	GCES800403AX	**55JR48**
60,000	48,000	1 to 3	33⅜	14	28	GCES800603AN	**55JR45**
60,000	48,000	1 to 3	33⅜	14	28	GCES800603AX	**55JR49**
80,000	64,000	1 to 4	33⅜	17½	28	GCES800804BN	**55JR46**
80,000	64,000	1 to 4	33⅜	17½	28	GCES800804BX	**55JR50**
80,000	64,000	1 to 5	33⅜	21	28	GCES800805CX	**55JR51**
100,000	80,000	1 to 5	33⅜	21	28	GCES801005CN	**55JR47**
100,000	80,000	1 to 5	33⅜	21	28	GCES801005CX	**55JR52**



No. 55JR53

1-Pc. Air Handlers (With Coils) and Electric Heater Kits

Feature a direct-drive multi-speed blower motor, all-aluminum evaporator coil, transformer, and blower time-delay. Multi-position mounting. No. 44ZA50 has a thermostatic expansion valve (TXV).

Goodman
Air Conditioning & Heating

Nom. Cap. (tons)	H (in.)	W (in.)	Mfr. Model	Item No.
Single Piece Air Handler				
1.5	45	17 ½	ARUF25B14	**38GN01**
2.0	45	17 ½	ARUF29B14	**38GN02**
2.5	45	17 ½	ARUF31B14	**38GN03**
3.0	49	21	ARUF37C14	**38GN04**
3.5	49	21	ARUF43C14	**38GN05**
4.0	58	24 ½	ARUF47D14	**38GN06**
5.0	58	24 ½	ARUF61D14	**38GN07**
5.0	58	24 ½	ASPT61D14	**44ZA50**

Description	Mfr. Model	Item No.
Heater Kits with Breaker		
5.0 kW	HKSC05XC	**38GN08**
8.0 kW	HKSC08XC	**38GN09**
10.0 kW	HKSC10XC	**38GN10**
15.0 kW	HKSC15XC	**38GN11**
19.0 kW	HKSC19CB	**38GN12**
20.0 kW	HKSC20DB	**38GN13**
25.0 kW	HKSC25DC	**38GN14**



No. 38GN01

Goodman
Air Conditioning & Heating

Indoor Evaporator Coils



No. 38GN15

All aluminum evaporator coils for excellent heat transfer. Include drain pan. AHRI Certified, ETL Listed.

Nom. Cap. (tons)	H (in.)	W (in.)	D (in.)	Liquid Line Size (in.)	Suction Line Size (in.)	Mfr. Model	Item No.
Coils, Requires Piston or TXV							
Cased Coil, Horizontal							
2.0	14	26	21⅛	⅜ ODS	¾ ODS	CHPF1824A6	**38GN28**
2.5	17½	26	21⅛	⅜ ODS	¾ ODS	CHPF2430B6	**38GN29**
3.0	17½	26	21⅛	⅜ ODS	¾ ODS	CHPF3636B6	**38GN30**
3.5	21	26	21⅛	⅜ ODS	¾ ODS	CHPF3642D6	**38GN31**
3.5	24½	26	21⅛	⅜ ODS	⅞ ODS	CHPF3642C6	**38GN32**
5.0	24½	26	21⅛	⅜ ODS	⅞ ODS	CHPF4860D6	**38GN33**
Cased Coil, Upflow/Downflow							
2.0	18	14	21	⅜ ODS	¾ ODS	CAPF1824A6	**38GN15**
2.0	18	17½	21	⅜ ODS	¾ ODS	CAPF1824B6	**38GN16**
2.5	22	14	21	⅜ ODS	¾ ODS	CAPF3030A6	**38GN17**
2.5	22	17½	21	⅜ ODS	¾ ODS	CAPF3030B6	**38GN18**
2.5	22	21	21	⅜ ODS	¾ ODS	CAPF3030C6	**38GN19**
3.0	22	14	21	⅜ ODS	⅞ ODS	CAPF3636A6	**38GN20**
3.0	22	17½	21	⅜ ODS	⅞ ODS	CAPF3636B6	**38GN21**
3.0	22	21	21	⅜ ODS	⅞ ODS	CAPF3636C6	**38GN22**
3.0	22	24½	21	⅜ ODS	⅞ ODS	CAPF3636D6	**38GN23**
3.5	22	21	21	⅜ ODS	⅞ ODS	CAPF3642C6	**38GN24**
3.5	22	24½	21	⅜ ODS	¾ ODS	CAPF3642D6	**38GN25**
5.0	30	21	21	⅜ ODS	⅞ ODS	CAPF4860C6	**38GN26**
5.0	30	24½	21	⅜ ODS	⅞ ODS	CAPF4860D6	**38GN27**
Uncased Coil, Upflow/Downflow							
2.0	16¼	13	20⅛	⅜ ODS	¾ ODS	CAUF1824A6	**38GN34**
2.0	16⅛	16½	20⅛	⅜ ODS	¾ ODS	CAUF1824B6	**38GN35**
2.0	16⅜	20	20⅛	⅜ ODS	¾ ODS	CAUF1824C6	**38GN36**
2.5	20-1/6	13	20⅛	⅜ ODS	¾ ODS	CAUF3030A6	**38GN37**
2.5	18¾	16½	20⅛	⅜ ODS	¾ ODS	CAUF3030B6	**38GN38**
2.5	17⅞	20	20⅛	⅜ ODS	¾ ODS	CAUF3030C6	**38GN39**
3.0	19⅜	16½	20⅛	⅜ ODS	¾ ODS	CAUF3636B6	**38GN40**
3.0	19¼	20	20⅛	⅜ ODS	¾ ODS	CAUF3636C6	**38GN41**
3.0	19¼	23	20⅛	⅜ ODS	¾ ODS	CAUF3636D6	**38GN42**
3.5	19	20	20⅛	⅜ ODS	¾ ODS	CAUF3642C6	**38GN43**
3.5	19⅞	23	20⅛	⅜ ODS	¾ ODS	CAUF3642D6	**38GN44**
5.0	30	20	20⅛	⅜ ODS	⅞ ODS	CAUF4961C6	**38GN45**
5.0	30	23	20⅛	⅜ ODS	⅞ ODS	CAUF4961D6	**38GN46**

Goodman
Air Conditioning & Heating

Condensing Units and Heat Pumps

Factory-installed in-line filter drier. AHRI Certified.

13 and 14 SEER—Models feature copper tube/aluminum fin coil, brass liquid and suction line valves, and contactor with lug connection. 14 SEER models are ETL Listed.

Heat Pump—Feature a scroll compressor, liquid refrigerant return protection, and service valves with sweat connections and easy-to-access gauge ports. Models are time-Initiated and have temperature-terminated defrost control, and contactor with lug connection.

Nom. Cap.	Suction Line Size	H	W	D	Mfr. Model	Item No.
A/C Condenser With Heat Pumps, 14 SEER, R-410A						
1.5 t	¾"	34¼"	29"	29"	GSZ140181	**38GM30**
2 t	¾"	38¼"	29"	29"	GSZ140241	**38GM31**
2.5 t	¾"	38¼"	29"	29"	GSZ140301	**38GM32**
3 t	⅞"	38¼"	35½"	35½"	GSZ140361	**38GM33**
3.5 t	⅞"	38¼"	35½"	35½"	GSZ140421	**38GM34**
4 t	⅞"	38¼"	35½"	35½"	GSZ140481	**38GM35**
5 t	⅞"	38¼"	35½"	35½"	GSZ140601	**38GM36**
A/C Condensing Units, 13 SEER, R-410A						
1.5 t	¾"	25¾"	23"	23"	GSX130181	**38GM12**
2 t	¾"	25¾"	23"	23"	GSX130241	**38GM13**
2.5 t	¾"	27½"	26"	26"	GSX130301	**38GM14**
3 t	⅞"	27½"	26"	26"	GSX130361	**38GM15**
3.5 t	1⅛"	36¼"	29"	29"	GSX130421	**38GM16**
4 t	1⅛"	36¼"	29"	29"	GSX130481	**38GM17**
5 t	⅞"	38½"	35½"	35½"	GSX130601	**38GM18**
A/C Condensing Units, 14 SEER, R-410A						
1.5 t	¾"	27½"	26"	26"	GSX140181	**38GM19**
1.5 t	¾"	27½"	26"	26"	GSX140191	**38GM20**
2 t	¾"	27½"	26"	26"	GSX140251	**38GM22**
2 tons	¾"	27½"	26"	26"	GSX140241	**38GM21**
2.5 t	¾"	32½"	29"	29"	GSX140301	**38GM23**
2.5 t	¾"	32½"	29"	29"	GSX140311	**38GM24**
3 t	⅞"	32½"	29"	29"	GSX140361	**38GM25**
3 t	⅞"	32½"	29"	29"	GSX140371	**38GM26**
3.5 t	⅞"	36¼"	29"	35½"	GSX140421	**38GM27**
4 t	1⅛"	36¼"	35½"	35½"	GSX140481	**38GM28**
5 t	1⅛"	38¼"	35½"	35½"	GSX140601	**38GM29**



No. 38GM12

Description	Mfr. Model	Item No.
Accessories		
Anchor Bracket	ABK-20	**38GM37**
Anchor Bracket	ABK-21	**38GM38**
Anti Short-Cycle Kit	ASC01A	**38GM39**
Freeze Thermostat	FSK01A	**38GM43**
Hard-Start Kit, For Use With Heat Pump 3½ to 4, 5 Ton	CSR-U-2	**38GM41**
Hard-Start Kit, For Use With Heat Pump 1, 2, 3 Ton	CSR-U-1	**38GM40**
Hard-Start Kit, For Use With Heat Pump 4 to 5 Ton	CSR-U-3	**38GM42**
Thermostat, For Goodman Cooling & Heat Pump	OT18-60A	**38GM51**
Thermostat and Emergency Relay, For Goodman Heat Pump	OT/EHR18-60	**38GM52**
TXV, For Use With 1½ to 2 Ton R4-410A A/C and Heat Pump	TX2N4A	**38GM46**
TXV, For Use With 2½ to 3 Ton R4-410A A/C and Heat Pump	TX3N4	**38GM47**
TXV, For Use With 4 to 5 Ton R4-410A A/C and Heat Pump	TX5N4	**38GM48**


No. 36L346


No. 31TP26


No. 414X14

Honeywell Home White-Rodgers
Aprilaire Honeywell

Furnace Humidifiers

Use with forced-air furnace systems to provide whole-house humidification. Pads/filters included on all humidifiers except steam units. For additional humidity controls, see page 3028.

Note: Max. Sq. Foot Cap. is an approximation based on 8-ft. ceiling height.

Max. Sq. Ft. Cap.	Voltage @ 60 Hz	H	W	D	Plenum Opening Required	Brand	Mfr. Model	Item No.
Humidifiers								
Drain Bypass, Continuous								
2000	24	14"	14½"	10⅛"	9⁷⁄₁₆" H x 9⁵⁄₁₆" W	Honeywell Home	HE100A1000	**6JJK7**
	24	14"	14½"	10⅛"	9⁷⁄₁₆" H x 9⁵⁄₁₆" W	Honeywell Home	HE150A1005	**6JJK8**
2100	24	13½"	12½"	9⅝"	1 0"H x 9"W	White-Rodgers	HFT2100	**36L346**
2500	24	17½"	15"	10⅛"	12⅝" H x 9¾" W	Honeywell Home	HE200A1000	**6JJK9**
	24	17½"	15"	10⅛"	12⅝" H x 9¾" W	Honeywell Home	HE250A1005	**6JJL0**
2700	24	18⅝"	13¾"	9⅝"	16⅝"H x 10⅝"W	White-Rodgers	HFT2700	**36L347**
3000	24	13"	15½"	10⁵⁄₁₆"	9.5"H x 9.5"W	Aprilaire	500	**31TP26**
	24	13"	15½"	10⁵⁄₁₆"	9.5"H x 9.5"W	Aprilaire	500M	**31TP27**
4000	24	15¹³⁄₁₆"	15½"	10⅜"	10"H x 12.8"W	Aprilaire	400	**31TP24**
	24	15¹³⁄₁₆"	15½"	10⁵⁄₁₆"	10"H x 12.8"W	Aprilaire	400M	**31TP25**
	24	15¹³⁄₁₆"	15½"	10⁵⁄₁₆"	10"H x 12.8"W	Aprilaire	600	**31TP28**
	24	15¹³⁄₁₆"	15½"	10⁵⁄₁₆"	10" W x 12¾" H	Aprilaire	600M	**31TP29**
Fan Powered, Continuous Drain								
2900	24	18⅝"	13¾"	9⅝"	16⅝"H x 13⅛"W	White-Rodgers	HFT 2900FP	**36L348**
3000	120VAC	16¾"	15½"	10⅜"	14¹⁄₁₆" H x 13½" W	Honeywell	HE300A1005	**278Y70**
4200	120VAC	18"	15²⁹⁄₃₂"	10⁵⁄₁₆"	14.3"H x 14.8"W	Aprilaire	700	**31TP30**
	120VAC	18"	15²⁹⁄₃₂"	10⁵⁄₁₆"	14.3"H x 14.8"W	Aprilaire	700M	**31TP31**
Steam, Auto Flush								
1400	120VAC	7⅝"	12⅝"	12½"	10½"H x 8"W	White-Rodgers	HSP 2000	**36L349**
1850	240	7⅝"	12⅝"	12½"	10½"H x 8"W	White-Rodgers	HSP 2600	**36L350**
5000	120/208/240	21"	10⅛"	7⅛"	1.5" dia.	Aprilaire	800	**31TP32**
Steam, Electrode, Continuous Drain								
4000	240VAC	20¹³⁄₁₆"	10"	7"		Honeywell Home	HM750A1000/U	**414X14**

For Use With	Item No.
Replacement Pads/Filters	
1MMR6, 2E390, Autoflo 40, 250	**1MMR3**
2TE68, 2RTZ1, 2RTZ2	**279A34**
2TE69, 2RTZ4, 2RTZ5, 2RTZ7, 2RTZ8, 6JJL1, 6JJK9	**279A33**
Aprilaire 110, 220, 550, 550A, 558, Honeywell HE220A/B, HE225A/B, Lasko 5000L, Hamilton 12HF, Chippewa 220, Lennox WB2-12, WB212	**2FRR7**
Aprilaire 112, 136, 224, 440, 445, 445A, 448, Chippewa 224, 225, 226, Humid-Aire Neptune, Walton 600, 620, 660	**2FRR8**
Aprilaire 350, 360, 560 560A, 568, 600, 700, 760, 760A, 768, Honeywell HE260A/B, HE265A/B, ME360, HE360A/B, HE365A/B, HC26E1004, HC26A1008, Lennox WB2-17, WB217, WP2-18, WP218	**2FRR9**
Aprilaire Mfr. No. 110, 220, Series 550, 500	**31TP34** *
Aprilaire Mfr. No. 112, 224	**31TP35** *
Aprilaire Mfr. No. 350, 360, 560, Series 600, 700, 760	**31TP36** *
Aprilaire Series 400, Pk. 2	**31TP37** *
General 709, 990, 1040, 990-13, Williamson Power 500, 400-13, Hamilton 10 HF	**2FRT4**
Mfr. No. 200P, 800BP, 200P, 800BP	**1MMR8**
Mfr. No. GH2500	**2FRT2**

**** OEM replacements.***

Drain Bypass, Continuous—Honeywell units have summer shut-off damper and antimicrobial humidifier pads. Nos. 6JJK8 and 6JJL0 include automatic damper and LED indicators. White-Rodgers units with reversible side panel allow easy-change left side or right side bypass installation. Models allow installation on non-level plenums and include a 24V transformer and humidistat for precise humidification control. Aprilaire models include a built-in bypass damper, reversible discharge for easy installation, a humidistat control and some models include the automatic digital control that provides perfect humidity for every room in your home.

Fan Powered, Continuous Drain—Cycles with heating system. Includes automatic damper and LED indicators. Aprilaire models have a built-in fan that pulls heated air directly from the furnace and is available with a digital automatic control.

Steam, Auto Flush—Corrosion-resistant and feature automatic humidistat, low water, safety cut-off switch, and built-in overflow protection. No. 31TP32 has 6 capacities in 1 unit, depending upon voltage selected.

Steam, Electrode, Continuous Drain—Features HumidiPRO™ digital humidly control. Humidifier provides up to 22 gpd and can be remote mounted up to 5 ft.

Description	For Use With	Item No.
Replacement Parts and Accessories		
AC Solenoid Valve	6JJK7, 6JJK8, 6JJK9, 6JJL0, 6JJL1 Humidifiers	**278Y69**
Bypass Humidifier Installation Kit	—	**48TA52**
Current Sensing Relay, 120V	120V	**31TP20**
Current Sensing Relay, 24V	24V	**31TP19**
Humidifier Control	All Evaporative Models	**31TP21**
	Steam Model 800	**31TP22**
Solenoid, Water	2TE68, 2TE69	**278Y68**
Universal Humidifier Solenoid Valve Replacement Kit, 120 V	Replacing OEM Solenoid Valves Used on Humidfiers	**38ZC83**
Universal Humidifier Solenoid Valve Replacement Kit, 24 V	Replacing OEM Solenoid Valves Used on Humidfiers	**38ZC84**
Wiring Board, Replacement	2TE70	**2TE78**

RANCO

Heat Pump Reversing Valves and Solenoid Coils


No. 5AV39

Slide-type, 4-way valves. UL Listed. Solenoid coils include wiring harness.

Cap. in Tons (R-22)	Cap. in Tons (R-502)	Suction Tube I.D.	High Pressure Tube I.D.	Mfr. Model	Item No.
Heat Pump Reversing Valves					
1.0 to 2.5	1.0 to 2.5	⅜"	⅜"	V2-410060-470	**5AV34**
1.0 to 5.5	1.0 to 5.5	¾"	½"	V6-412080-170	**5AV35**
1.0 to 5.5	1.0 to 5.5	⅞"	½"	V6-414080-170	**5AV36**
3.0 to 8.5	3.0 to 11.9	⅞"	½"	V10-414080-170	**5AV32**
3.0 to 9.5	3.0 to 11.9	1⅛"	⅞"	V10-418140-170	**5AV33**

Voltage	Watts @ 50 Hz	Watts @ 60 Hz	Mfr. Model	Item No.
Heat Pump Solenoid Coils				
24	5	4	LDK-110000-070	**5AV38**
208/240	5	4	LDK-410000-070	**5AV39**

DIVERSITECH

Condensate Drain Pans


No. 3HAJ3

Rolled edges are easy on the hands.

Steel—Seamless, nestable pans have 2 possible drain outlet positions.

Plastic—Ribbed bottoms and reinforced corners for strength.

Item	Mfr. Model	Item No.
Accessories		
Condensation Flood Detector Switch	WS-1	**6XJG7**
Condensation Overflow Safety Switch	SOS-1	**6XJH7**
Condensation Pan Switch	CC-1	**6XJH8**

Dim. (in.)* L	W	D	Mfr. Model	Item No.
26-ga. Galv. Steel, ¾" Drain Line Fitting & Plug				
48	27	2	6-M2748	**3HAD7**
60	30	2	6-M3060	**3HAD8**
Black Plastic, ¾" PVC Fitting				
27	39	2	6-2739L	**3HAK1**
27	48	2	6-2748L	**3HAJ5**
27	63	2	6-2763L	**3HAJ6**
30	30	2	6-3030L	**3HAJ4**
30	50	2	6-3050L	**3HAJ9**
30	60	2	6-3060L	**3HAJ3**
32	63	2	6-3263L	**3HAJ7**
36	36	2	6-3636L	**3HAJ8**
36	60	2	6-3660L	**3HAK2**

**** L and W dimensions are for the base of the pan.***


No. 10L931

GA GRAINGER APPROVED

Sponge Rubber Seal Strip

Adhesive backing bonds to wood, metal, glass, and other smooth surfaces. For indoor use as weather stripping, cushion, insulator, seal, and gap-filler. Max. temp.: 200°F. RoHS Compliant.

L	W	Thickness	Item No.
50 ft.	½"	³⁄₁₆"	**10L933**
50 ft.	¾"	¼"	**10L934**
50 ft.	1"	⅛"	**10L935**
50 ft.	1"	³⁄₁₆"	**10L936**
25 ft.	¾"	⁷⁄₁₆"	**10L931**
25 ft.	1"	⁹⁄₁₆"	**10L932**

Furnace Air Cleaners

Sun-Pure Catalytic Air Purification · Honeywell Home · Honeywell · Aprilaire · TRION Indoor Air Quality

Remove airborne contaminants such as smoke, dust, and mold in residential or light commercial forced-air heating and cooling systems.

Find more air cleaners on Grainger.com®.

For additional replacement air filters, see page 3049.

ELECTRONIC

Sun-Pure Ultra-Sun—Remove up to 98% of allergens down to 0.3 microns. Help neutralize NOx and carbon monoxide. Feature filter and UV lamp alerts.

Honeywell Home—Capture up to 98% of particles (3 to 10 microns). Wireless indicator alerts when cells need washing. Static pressure drop is 0.26 WC at max. air flow.

Aprilaire®—Traps particles as small as 0.03 micron including those laden with influenza viruses, and is up to 80% efficient on particles as small as 0.01 micron.

Trion®—Up to 95% efficiency per ASHRAE Standard 52.1. Washable Forever Filter®.

MEDIA

Honeywell—Captures particles as small as 0.3 micron. Static pressure drop is 0.23 WC at 500 fpm. MERV 11.

Trion®—Features pleated mechanical 5"-deep filter which maintains and increases efficiency with low air resistance; 0.24 WC pressure drop at rated air flow. MERV 8, MERV 11, and MERV 13.

Aprilaire®—SelfSeal™ design improves performance. Nos. 31TP14 to 31TP17 can trap sub-micron particles including bacteria and viruses. MERV 11 (Nos. 31TP14 to 31TP17 are MERV 13).

Air Flow (cfm)	Duct H (in.)	Duct W (in.)	H (in.)	W (in.)	D (in.)	Includes	Brand	Mfr. Model	Item No.
Electronic Air Cleaners									
1200	—	—	17	10¼	25	Primary Filter, UV Lamps, Titanium Catalyst	Sun-Pure Ultra-Sun	Trio-1200	**2YGA5**
	16	20	16 3/16	20½	6¾	—	Honeywell Home	F300E1001	**2TE84**
1400	16	25	16 3/16	25½	6¾	—	Honeywell Home	F300E1019	**2TE85**
	20	20	20 3/16	20½	6¾	—	Honeywell Home	F300E1027	**2TE86**
	—	—	21	10¼	25	Primary Filter, UV Lamps, Titanium Catalyst	Sun-Pure Ultra-Sun	Trio-2000	**2YGA3**
2000	15½	23⅞	17¾	31	12	Media Filter & Model 8476 Thermostat	Aprilaire	5000	**31TP18**
	17⅞	22½	24¼	24⅞	7⅛	Air Flow Sensor	Trion	HE PLUS 20x25	**4YA26**
	20	25	20 3/16	25½	6¾	—	Honeywell Home	F300E1035	**2TE87**
Media Air Cleaners									
1200	16	20	16 3/16	20½	6¾	—	Honeywell	F100F1620	**278X86**
1400	13⅞	22½	16¼	24⅞	7⅛	—	Trion	AIR BEAR SUPREME 16x25	**4YA29**
	17	7	16 3/16	6¾	25	—	Honeywell	F100F1625	**468D76**
	17⅞	19	20¼	21⅜	7⅛	—	Trion	AIR BEAR SUPREME 20X20	**4YA30**
	21	7	20 3/16	6¾	20	—	Honeywell	F100F2020	**468D77**
2000	15 1/16	23⅞	17¾	28 1/16	6¾	Media Filter	Aprilaire	1410	**31TP13**
	15 1/16	23⅞	17¾	28 1/16	6¾	Media Filter	Aprilaire	2410	**31TP15**
	15 1/16	23⅞	17¾	28 1/16	6¾	Media Filter & Model 8476 Thermostat	Aprilaire	3410	**31TP17**
	17⅞	22½	20¼	24⅞	7⅛	—	Trion	AIR BEAR SUPREME 20x25	**4YA31**
	19¾	21 3/16	22 1/16	27⅜	6¾	Media Filter	Aprilaire	1210	**31TP12**
	19¾	21 3/16	22 1/16	27⅜	6¾	Media Filter	Aprilaire	2210	**31TP14**
	19¾	21 3/16	22 1/16	27⅜	6¾	Media Filter & Model 8476 Thermostat	Aprilaire	3210	**31TP16**
	20	25	20 3/16	25½	6¾	—	Honeywell	F100F2025	**278X85**
	24	8 or 10	24⅜	25⅝	15½	—	Trion	AIR BEAR RIGHT ANGLE	**4YA32**

UPGRADE KITS FOR APRILAIRE® AND SPACE-GARD® AIR CLEANERS (MODELS 2200 AND 2400)

Kit No. 31TP03 replaces the inner housing and includes No. 31TP07 filter. Kit No. 31TP04 replaces the inner housing and includes No. 31TP10 filter.


No. 2TE85


No. 2YGA3


No. 31TP18


No. 4YA31

For Use With	MERV	Brand	Mfr. Model	Pkg. Qty.	Item No.
Replacement Filters					
AIR BEAR GM 2000, AIR BEAR SUPREME 20x25, AIR BEAR RIGHT ANGLE	8	Trion	255649-102	3	**4YA33**
AIR BEAR SUPREME 16 x 25	8	Trion	255649-105	3	**4YA34**
AIR BEAR SUPREME 20X20	8	Trion	255649-103	4	**4YA35**
Mfr. No. 1210, 2210, 3210, 4200	11	Aprilaire	210	1	**31TP06**
	13	Aprilaire	213	1	**31TP07**
Mfr. No. 1410, 2410, 3410, 4400	11	Aprilaire	410	1	**31TP09**
	13	Aprilaire	413	1	**31TP10**
Mfr. No. 2200, 2250	10	Aprilaire	201	1	**31TP05**
Mfr. No. 2400	10	Aprilaire	401	1	**31TP08**
Mfr. No. 5000	—	Aprilaire	501	1	**31TP11**
Mfr. No. CAC500M	—	Trion	1000-3000-0101	1	**4E538**
Mfr. No. FM1000M	—	Trion	340553-001	1	**4E537**
Replacement UV Bulb					
2YGA5, 2YGA3	—	Sun-Pure Ultra-Sun	1RK019	2	**2YGA7**
Upgrade Kits For Aprilaire® and Space-Gard® Air Cleaners					
Mfr. No. 2200, 2120	—	Aprilaire	1213	1	**31TP03**
Mfr. No. 2400, 2140	—	Aprilaire	1413	1	**31TP04**

Whole-House Dehumidifiers

- Humidity range: 40 to 80% RH
- Ambient temp. range: 40° to 140°F
- 115V/60 Hz

Include a washable MERV 8 filter.

Whole-House Dehumidifiers—Operate independently or in conjunction with an existing central air conditioning system. Units are lightweight, compact, and can fit under HVAC equipment or in most crawl spaces. Adjustable duct collar provides side or top discharge options. No. 31TP38 is ENERGY STAR qualified.

Aprilaire®

Dehumidifier Control—Adjusts humidity setting or turns dehumidifier On or Off. Can be used as an external control when mounted in the same space as the dehumidifier, or as a remote control where the control unit is located away from a difficult-to-access dehumidifier.

Capacity/24 Hrs. @ 60% RH	Fan CFM	H	W	D	Mfr. Model	Item No.
70 pt.	160	12½"	14½"	25"	1830	**31TP38**
95 pt.	265	12½"	14½"	27½"	1850	**31TP39**
Digital Dehumidifier Control					76	**31TP23**


No. 31TP38

Whole-House Dehumidifiers

Honeywell Home

- Humidity range: 0 to 99%
- Ambient temp. range: 34º to 135ºF
- 120V/60 Hz

These side-ducted models for houses or small buildings can stand alone or be integrated into a central heating/cooling system to remove excess moisture. Feature a separate control for ventilation that allows the onboard blower to introduce fresh air into your house when dehumidification is not required. MERV 11 filter efficiency. ETL Listed, UL Listed, and CSA Certified. ENERGY STAR qualified.

Capacity/24 Hrs. @ 60% RH	Fan CFM	H	W	D	Mfr. Model	Item No.
65 pt.	160	12"	12"	28½"	DR65A3000/U	**443W15**
90 pt.	320	19 21/64"	14 21/64"	32 3/16"	DR90A3000/U	**443W16**
120 pt.	400	19 21/64"	14 21/64"	32 3/16"	DR120A3000/U	**443W17**
Replacement Filter, For Use With DR65					50049537-005	**117AD5**
Replacement Filter, For Use With DR90 and DR120					50070171-002/U	**20Y116**


No. 443W15

Scan. Order. Done.
Details on page A1.


No. 1H245

EATON | SQUARE D by Schneider Electric

Air Conditioning Disconnect Switches

For indoor or outdoor use.

Amps AC	Voltage	Short Circuit Protection	For Use With	Max. HP @ 240V	W	H	D	Brand	Mfr. Model	Item No.
Polycarbonate										
30	240VAC	Fuse	Class RK1 Fuse	3 HP	5"	8 45/64"	3 1/2"	Eaton	ACD221RNM-A2	**5XHR5**
60	240VAC	None	—	10 HP	5"	8 45/64"	3 1/2"	Eaton	ACD222URNM-A2	**5XHR3**
60	240VAC	Fuse	Class RK1 Fuse	10 HP	5"	8 45/64"	3 1/2"	Eaton	ACD222RNM-A2	**5XHR4**
60	240VAC	Circuit Breaker	—	10 HP	6 1/2"	8.8"	3 29/32"	Square D	QO200TRNM	**6HD95**
Galvanized Steel										
30	240VAC	Fuse	Class H Fuse	3 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPF221R	**5XHR1**
60	240VAC	None	—	10 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPU222R	**5XHP9**
60	240VAC	None	—	10 HP	6 35/64"	11 39/64"	4 13/32"	Eaton	DPU222RGF20	**5XHR2** *
60	240VAC	Fuse	Class H Fuse	10 HP	5 13/32"	8 45/64"	3 13/64"	Eaton	DPF222R	**5XHR0**
60	240VAC	None	—	10 HP	4 39/64"	6 1/2"	3 29/32"	Square D	QO200TR	**1H245**

Includes 20A GFCI receptacle.

DIVERSITECH®

Equipment Pads


No. 2YJ83

- Weight capacity: 125 lb./sq. in.

Mounting base for air conditioning units, filters, heaters, pool pumps, and refrigeration, or any type of equipment requiring weight distribution support. Ribbing allows self leveling and transfers load evenly. UV stable and vibration resistant.

D (in.)	L (in.)	W (in.)	Mfr. Model	Item No.
UltraLite®				
2	24	48	UC2448-2	**2WUR1**
	30	30	UC3030-2	**4E875**
	36	36	UC3636-2	**4E876**
	48	36	UC3648-2	**4E873**
3	30	30	UC3030-3	**2YJ84**
	36	36	UC3636-3	**2YJ85**
	48	36	UC3648-3	**2YJ83**
The Black Pad®				
2	30	30	ACP30302	**3HAD9**
	36	36	ACP36362	**3HAE2**
3	30	30	ACP30303	**3HAE1**
	36	36	ACP36363	**3HAE3**
	48	36	ACP36483	**3HAE4**

DUCTMATE®

Condensing Unit Braces

- Engineered wall-mount bracket for air conditioners, heat pumps, and other equipment
- No site preparation or leveling

No settling. Good for coastal and flood-prone areas or where hurricanes, snowfall, mud, or steep grades are a concern. Mounting fasteners not included.

Note: Because of the wide range of wall materials (brick, concrete, wood, etc.) the mounting is the responsibility of the installer.



Description	Mfr. Model	Item No.
36"L x 30"W	GRAIRBRACE36GA	**6EKE2**
45"L x 36"W	GRAIRBRACE45GA	**6EKE3**
55"L x 48"W	GRAIRBRACE55GA	**6EKE4**

AC-GUARD

Equipment Security Cages and Lock Set

Adjustable cages protect 1 or more condensers from copper theft. High-security padlocks have 2"-thick shackle to resist bolt cutters. Keyed alike for convenient control.


No. 5ULD4

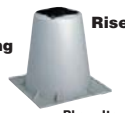

No. 5ULD5

Description	Mfr. Model	Item No.
A/C Condenser Security Cage, 16 ga. Steel, W x D Adjustable 30 to 51 In, H Adjustable 34 to 59 In, 1" tubing size.	ACGU	**5ULD4**
Mini-Split Cage, 16 ga. Powder Coated Steel, Includes 2 Locks, Adjusts From 32" H x 32" W x 12" D to 57" H x 45" W x 16 1/2" D	ACMS	**45MY32**
U-Shaped Keyed Padlock, Steel, For Use With Mfr. No. ACGU, Includes 3 Locks with Key and Magnetic Hide-A-Key	ACL	**5ULD5**

DIVERSITECH®


Mounting Brackets


Mounting Block


Riser

Equipment Mounting Accessories

Mounting Brackets—12 ga. powder-coated steel with prepunched holes; 600-lb. load rating. For hanging A/C condensers and heat pumps outside at any height.

Mounting Block—Raises furnace 1 1/2" for quiet, dry operation. Each block handles over 500 lb. Peel-and-stick installation.

Risers—Stable, sturdy, plastic risers elevate condensers, heat pumps and air handlers. Butyl mastic on top and bottom prevents slipping and reduces vibration and noise.

Description	Pkg. Qty.	Item No.
Mounting Brackets		
30"	2	**6XJH9**
36"	2	**6XJJ0**
42"	2	**6XJJ1**
Mounting Block		
6" x 4" x 2.35"	1	**6XJH6**
Risers		
3" Black	1	**6XJH3**
6" Black	1	**6XJH4**
3" Gray	1	**6XJG8**
6" Gray	1	**6XJG9**
12" Gray	1	**6XJH0**
2-Pc., 3", Gray	1	**6XJH1**
2-Pc., 6", Gray	1	**6XJH2**
4" Extension	1	**6XJH5**

DIVERSITECH®

Assembled Flexible Connector Whips



Liquid-tight conduit kits have 1 straight metallic connector and a removable 90° metallic connector for optional connections. 3 wire colors for easy hookup.

Note: Check your local codes for correct requirements.

Conduit Dia. (in.)	Conduit L (in.)	Wire Size	Mfr. Model	Item No.
1/2	48	#10 THHN	6-12-4	**2YJ79**
1/2	72	#10 THHN	6-12-6	**2YJ80**
3/4	48	#8 THHN	6-34-4	**2YJ81**
3/4	72	#8 THHN	6-34-6	**2YJ82**

Streamline®
A BRAND OF MUELLER INDUSTRIES

Insulated Copper Tube Line Sets


No. 4E965

Refrigeration-grade copper tubing and insulation preassembled and packaged together for efficient installation of split systems.

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current market price.

Liquid Line Size (in.)	Suction Line Size (in.)	L (ft.)	Insulation Thickness (in.)	Mfr. Model	Item No.
Refrigerant Line Sets					
1/4 O.D.	3/8 O.D.	35	1/2	40620350B6	**4E965** *
	3/8 O.D.	50	1/2	40620500B6	**38N857** *
	1/2 O.D.	35	1/2	40820350B6	**4E967** *
	1/2 O.D.	50	1/2	40820500B6	**38N858** *
	5/8 O.D.	50	1/2	41020500B6	**38N859** *
1/4 O.D. Flared Ends	3/8 O.D. Flared Ends	35	1/2	40620350B3B6	**38N861** *
	3/8 O.D. Flared Ends	50	1/2	40620500B3B6	**38N860** *
	1/2 O.D. Flared Ends	35	1/2	40820350B3B6	**38N863** *
	1/2 O.D. Flared Ends	50	1/2	40820500B3B6	**38N862** *
	5/8 O.D. Flared Ends	35	1/2	41020350B3B6	**1CNP5** *
	5/8 O.D. Flared Ends	50	1/2	41020500B3B6	**38N864** *
3/8 O.D.	3/8 O.D.	15	1/2	61020150B6	**6XZ53** *
	3/8 O.D.	30	1/2	61020300	**38N856**
	3/8 O.D.	35	1/2	61020350B6	**6XZ54** *
	3/8 O.D.	50	1/2	61020500B6	**12T748** *
	5/8 O.D.	50	1/2	61020500	**38N855**
	3/4 O.D.	30	1/2	61220300	**6XZ57**
	3/4 O.D.	30	1/2	61220301	**4E871** †
	3/4 O.D.	50	1/2	61220500	**6XZ58**
	3/4 O.D.	50	1/2	61220501	**4E870** †
	7/8 O.D.	30	1/2	61420300	**6XZ61**
	7/8 O.D.	30	1/2	61420301	**3F346** †
	7/8 O.D.	50	1/2	61420500	**6XZ62**
	7/8 O.D.	50	1/2	61420501	**3F347** †
	1 1/8 O.D.	50	1/2	61820500	**1EVH2**
3/8 O.D. Flared Ends	5/8 O.D. Flared Ends	35	1/2	61020350B3B6	**38N866** *
	5/8 O.D. Flared Ends	50	1/2	61020500B3B6	**38N865** *
5/16 O.D.	3/8 O.D.	30	1/2	51020300	**3F342**
	3/8 O.D.	50	1/2	51020500	**3F343**
	3/4 O.D.	30	1/2	51220300	**3F344**
	3/4 O.D.	50	1/2	51220500	**3F345**

Both lines are insulated. † 90° bend on end of line.

Item	Connec. Size	Mfr. Model	Item No.
Fittings			
1/4" Flare Gasket	1/4"	A 00401	**38N874**
1/4" SAE Cap	1/4"	A 16447	**38N867**
	1/4"	A 04544	**38N868**
Copper Flare Seal Bonnet	1/4"	A 00414	**38N885**
Flare Bushing	5/8" x 1/4"	A 07813NL	**38N872**
	5/8" x 1/8"	A 07812NL	**38N878**
Flare Fitting	1/4" SAE M x 1/4 MPT	A 04585	**38N875**
	1/4" SAE M x 1/8 MPT	A 00330	**38N883**
	1/4" SAE M x 1/4 SAE M	A 00325	**38N884**
	3/8" SAE M x 3/8 SAE M	A 00327	**38N886**
Flare Fitting 90°	1/4" SAE x 1/8" NPT	A 00335	**38N881**
Flare Gasket	3/8"	A 00402	**38N882**
Flare Nut	1/4"	A 05051	**38N869**
	3/8"	A 05052	**38N870**
	1/2"	A 05053	**38N871**
	5/8"	A 05157	**38N879**
Half Union Connector	1/2" x 1/2"	A 04780	**38N877**
Swivel FE Flare X Solder Adapter	1/4" x 1/4"	A 15725	**38N876**
	3/8" x 3/8"	A 15726	**38N873**
	1/2" x 1/2"	A 15727	**38N880**

Find HVAC Brush Accessories on Grainger.com®

TOUGH GUY

HVAC Brushes


Flue Brush




Refrigeration Coil Brush

Fill Type	Brush Dia. (in.)	Brush Length (in.)	Overall Length (in.)	Item No.
Condenser Brush				
Fin Whisk				
Plastic				
Polyester	—	2⅛	6½	**3HHE8**
Condenser Tube Brush				
Double Spiral/Double Stem				
12-24 (F) Threads				
Stainless Steel	⅜	4	6	**3HGW4**
	7/16	4	6	**3HGW5**
	½	4	6	**3HGW6**
	9/16	4	6	**3HGW7**
	⅝	4	6	**3HGW8**
	11/16	4	6	**3HGW9**
	¾	4	6	**3HGX1**
	13/16	4	6	**3HGX2**
	⅞	4	6	**3HGX3**
	15/16	4	6	**3HGX4**
	1	4	6	**3HGX5**
Single Spiral/Double Stem				
¼"-28 (M) Threads				
Brass	7/16	4	6	**3HHA2**
	½	4	6	**3HHA3**
	9/16	4	6	**3HHA4**
	⅝	4	6	**3HHA5**
	11/16	4	6	**3HHA6**
	¾	4	6	**3HHA7**
	13/16	4	6	**3HHA8**
	⅞	4	6	**3HHA9**
	15/16	4	6	**3HHC1**
	1	4	6	**3HHC2**
Stainless Steel	7/16	4	6	**3HGY7**
	½	4	6	**3HGY8**
	9/16	4	6	**3HGY9**
	⅝	4	6	**3HGZ1**
	11/16	4	6	**3HGZ2**
	¾	4	6	**3HGZ3**
	13/16	4	6	**3HGZ4**
	⅞	4	6	**3HGZ5**
	15/16	4	6	**3HGZ6**
	1	4	6	**3HGZ7**
12-24 (F) Threads				
Brass	⅜	4	6	**3HGT5**
	7/16	4	6	**3HGT6**
	½	4	6	**3HGT7**
	9/16	4	6	**3HGT8**
	⅝	4	6	**3HGT9**
	11/16	4	6	**3HGU1**
	¾	4	6	**3HGU2**
	13/16	4	6	**3HGU3**
	⅞	4	6	**3HGU4**
	15/16	4	6	**3HGU5**
	1	4	6	**3HGU6**
Stainless Steel	⅜	4	6	**3HGR1**
	7/16	4	6	**3HGR2**
	½	4	6	**3HGR3**
	9/16	4	6	**3HGR4**
	⅝	4	6	**3HGR5**
	11/16	4	6	**3HGR6**
	¾	4	6	**3HGR7**
	13/16	4	6	**3HGR8**
	⅞	4	6	**3HGR9**
	15/16	4	6	**3HGT1**
	1	4	6	**3HGT2**
8-32 (M) Threads				
Brass	⅜	4	6	**3HHA1**
Stainless Steel	⅜	4	6	**3HGY6**
Single Spiral/Single Stem				
¼"-28 (M) Threads				
Nylon	7/16	4	6	**3HHC6**
	½	4	6	**3HHC7**
	9/16	4	6	**3HHC8**
	⅝	4	6	**3HHC9**
	11/16	4	6	**3HHD1**
	¾	4	6	**3HHD2**
	13/16	4	6	**3HHD3**
	⅞	4	6	**3HHD4**
	15/16	4	6	**3HHD5**
	1	4	6	**3HHD6**
12-24 (F) Threads				
Nylon	⅜	4	6	**3HGU9**
	7/16	4	6	**3HGV1**
	½	4	6	**3HGV2**
	9/16	4	6	**3HGV3**
	⅝	4	6	**3HGV4**
	11/16	4	6	**3HGV5**
	¾	4	6	**3HGV6**
	13/16	4	6	**3HGV7**
	⅞	4	6	**3HGV8**
	15/16	4	6	**3HGV9**
	1	4	6	**3HGW1**
8-32 (M) Threads				
Nylon	⅜	4	6	**3HHC5**

Fill Type	Brush Dia. (in.)	Brush Length (in.)	Overall Length (in.)	Item No.
Flue Brush				
Double Spiral/Double Stem				
¼" (M) NPS				
Stainless Steel	1¼	4½	7½	**2VMZ6**
	1½	4½	7½	**2XTE6**
	1¾	4½	7½	**2VMZ3**
	2	4½	7½	**2XTD8**
	2¼	4½	7½	**2VMY8**
	2½	4½	7½	**2VMZ1**
	2¾	4½	7½	**2VMY9**
	3	4½	7½	**2VMY7**
	3¼	4½	7½	**3EDL3**
	3½	4½	7½	**3EDL4**
	3¾	4½	7½	**3EDL5**
	4	4½	7½	**3EDL6**
	4¼	4½	7½	**3EDL7**
	4½	4½	7½	**3EDL8**
	4¾	4½	7½	**3EDL9**
	5	4½	7½	**3EDN1**
Tempered Wire	¾	4½	7½	**2FCD2**
	1	4½	7½	**2VMY4**
	1¼	4½	7½	**2XTD6**
	1½	4½	7½	**2XTD9**
	1¾	4½	7½	**2FCC5**
	2	4½	7½	**2FCD4**
	2¼	4½	7½	**2FCC7**
	2½	4½	7½	**2XTE2**
	2¾	4½	7½	**2VMY1**
	3	4½	7½	**2FCD3**
	3¼	4½	7½	**3EDH3**
	3½	4½	7½	**3EDH4**
	3¾	4½	7½	**2XTA9**
	4	4½	7½	**2XTD2**
Single Spiral/Double Stem				
Stainless Steel	1¼	4½	7½	**2FCC6**
	1½	4½	7½	**2XTD4**
	1¾	4½	7½	**2VMZ2**
	2	4½	7½	**2FCC8**
	2¼	4½	7½	**2VMY5**
	2½	4½	7½	**2VMZ4**
	2¾	4½	7½	**3EDH5**
	3	4½	7½	**2VMZ5**
	3¼	4½	7½	**3EDH6**
	3½	4½	7½	**3EDH7**
	3¾	4½	7½	**3EDH8**
	4	4½	7½	**2VNA9**
	4¼	4½	7½	**3EDH9**
	4½	4½	7½	**3EDJ1**
	4¾	4½	7½	**3EDJ2**
	5	4½	7½	**3EDJ3**
Tampico	1	4½	7½	**3EDC7**
	1½	4½	7½	**3EDC8**
	2	4½	7½	**3EDC9**
	2½	4½	7½	**3EDD1**
	3	4½	7½	**3EDD2**
	3½	4½	7½	**3EDD3**
	4	4½	7½	**3EDD4**
	5	4½	7½	**3EDD5**
	6	4½	7½	**3EDD6**
Tempered Wire	¾	4½	7½	**3EDE9**
	1	4½	7½	**3EDF1**
	1¼	4½	7½	**3EDF2**
	1½	4½	7½	**3EDF3**
	1¾	4½	7½	**2VNA6**
	2	4½	7½	**3EDF4**
	2¼	4½	7½	**3EDF5**
	2½	4½	7½	**3EDF6**
	2¾	4½	7½	**3EDF7**
	3	4½	7½	**3EDF8**
	3¼	4½	7½	**3EDF9**
	3½	4½	7½	**3EDG1**
	3¾	4½	7½	**3EDG2**
	4	4½	7½	**3EDG3**
⅜" (M) NPT				
Tempered Wire	1¾	4½	7½	**3EDG4**
	2	4½	7½	**3EDG5**
	2¼	4½	7½	**3EDG6**
	2½	4½	7½	**3EDG7**
	2¾	4½	7½	**3EDG8**
	3¼	4½	7½	**3EDG9**
	3½	4½	7½	**3EDH1**
	3¾	4½	7½	**3EDH2**

Fill Type	Brush L (in.)	Brush Dia. (in.)	Handle L (in.)	Overall Length (in.)	Item No.
Boiler Brush					
Columbia Boiler, Single Spiral/Single Stem					
Twisted Wire					
Spring Grade	4½	½ x 1	22	27	**2FCD1**
Tempered Wire	4½	½ x 1	44	48	**2FCC9**
Weil McLain Boiler, Single Spiral/Single Stem					
Bristle	4	1½ x 1⅛	26	30	**2VMY6**
	4	1½ x 1⅛	26	30	**2XTD5**
Carbon Steel	4	1½ x 1⅛	26	30	**3ECZ9**
	4	1½ x 1⅛	26	30	**3EDA1**
Carbon Steel Wire	4	1½ x 1⅛	38	42	**2VMY2**
Crimped Wire	4	1½ x 1⅛	26	30	**2XTD3**
Wooden and Twisted Wire					
Fine Wire	2¾	1½ x 1⅛	39¼	42	**3ECZ8**
Straight Wire	2¾	1½ x 1⅛	27¼	30	**2XTE5**
Furnace Boiler Brush					
Single Spiral/Single Stem					
Crimped Brass	7	2⅛	41	48	**2VMZ7**
Fiber	6	2	21	27	**3EDP3**
	6	2	36	42	**2XTA8**
	6	3	21	27	**3EDP4**
	6	3	36	42	**3EDP5**
Fiber Hair Mix	6	2	21	27	**3EDP6**
	6	2	36	42	**2VMZ9**
	6	3	21	27	**3EDP7**
	6	3	36	42	**2VNC1**
Nylon	4	2¼	16	20	**3EDA2**
	4	2¼	16	20	**3EDA3**
Stainless Steel	7	2⅛	41	48	**2VNA2**
Furnace Brush					
Wire Handle with 1" Ring					
Natural Bristle	7	1 to 2	14	21	**3ECY5**
	7	1 to 2	35	42	**3ECY4**
Wooden					
Natural Bristle	7	½ x 1	4½	36	**2FCE5**
Tampico	7	2⅛	4½	48	**2FCD8**
Wooden and Twisted Wire					
Natural Bristle	7	½ x 1	14	21	**3ECY1**
	7	½ x 1	14	21	**3ECY6**
	7	½ x 1	23	30	**2XTD7**
	7	½ x 1	23	30	**3ECY2**
	7	½ x 1	29	36	**3ECY3**
Radiator Brush					
Wooden					
Horsehair	7	2	4½	27	**2FCD6**
	7	2½	4½	27	**2FCD9**
Horsehair Poly Mix	7	2½	4½	27	**2FCE2**
Refrigerator Coil Brush					
Synthetic	12	¾ x 1½	15	28	**3ECX8**
	12	¾ x 1½	15	28	**2KVE3**
Wooden and Twisted Wire					
Bristle	6	2	18	24	**3ECX6**
Poly	7	2¼	17	24	**3ECX7**
	12	¾ x 1½	22	28	**3ECX9**
Synthetic	¾ x 1½	¾ x 1½	4½	30	**2FCD7**
Tube Brush					
Single Spiral/Double Stem					
¼" (M) NPS					
Brass	4½	1¼	—	7½	**2XTE3**
	4½	1½	—	7½	**2VMZ8**
	4½	1¾	—	7½	**3EDJ4**
	4½	2	—	7½	**2XTE1**
	4½	2¼	—	7½	**3EDJ5**
	4½	2½	—	7½	**2VNA4**
	4½	2¾	—	7½	**3EDJ6**
	4½	3	—	7½	**3EDJ7**
	4½	3¼	—	7½	**3EDJ8**
	4½	3½	—	7½	**3EDJ9**
	4½	3¾	—	7½	**3EDK1**
	4½	4	—	7½	**2VNA1**
Nylon	5	1¼	—	7½	**2XTE4**
	5	1½	—	7½	**2VNC2**
	5	1¾	—	7½	**3EDK2**
	5	2	—	7½	**3EDK3**
	5	2¼	—	7½	**3EDK4**
	5	2½	—	7½	**3EDK5**
	5	2¾	—	7½	**3EDK6**
	5	3	—	7	**3EDK7**
	5	3¼	—	7½	**3EDK8**
	5	3½	—	7	**3EDK9**
	5	3¾	—	7	**3EDL1**
	5	4	—	7½	**3EDL2**
Galvanized Wire					
Natural Bristle	2	⅜	4	6½	**2FCE4**
	3	½	21	24	**2FCE1**
	3	½	32½	36	**2FCE3**

AMERIVENT®

Type B Gas Vent Components

- Requires 1" clearance to combustibles
- Snap-lock joints
- UL Listed
- Accepted by AGA, NFPA, HUD, NBC, and UBC

Gas Vent Pipe Sections—Rugged, double-wall construction with aluminum alloy 1100, 3003, or 3105 inner pipe and corrosion-resistant galvanized steel outer pipe. Snap-lock coupling ends.

Adjustable Gas Vent Pipe—Fit onto standard pipe sections. Telescope adjusts from 3" to 10".

Standard Tees—Branch and trunk diameters are the same size.

Adjustable Gas Vent Elbows, 90°—Constructed of 4 sections for smoother bends and less resistance. Adjusts from 0° to 90°.

Vent Caps—Designed to prevent spill-back of waste gases into structures. Permit termination of vents at minimum height necessary above roof.

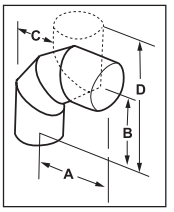
Adapters—Universal adapters feature snap-lock couplings on 1 end, and slip joints on other. When used to join 2 UL Listed gas vent systems, the entire system maintains the listing.

Furnace/Water Heater Kits—Kits include cap, storm collar, flashing, draft hood connector, and 12" adjustable length. Most installations require additional pipe lengths and adjustable 90° "L" connector.

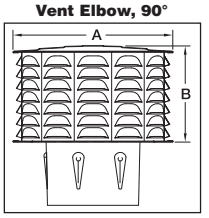
Firestop Support Plates—For supporting Type B gas vents starting at appliance level while also serving as a firestop.



Standard Tee



Adjustable Gas Vent Elbow, 90°



Vent Cap


Furnace/Water Heater Kit

Gas Vent Pipe Dia.	Gas Vent Pipe Length	Mfr. Model	Item No.
Gas Vent Pipe Sections			
3"	2 ft.	3E24	**3F378**
3"	3 ft.	3E3	**3F379**
3"	4 ft.	3E4	**3F380**
3"	5 ft.	3E5	**3F381**
4"	2 ft.	4E24	**3F382**
4"	3 ft.	4E3	**3F383**
4"	4 ft.	4E4	**3F384**
4"	5 ft.	4E5	**3F385**
5"	2 ft.	5E24	**3F386**
5"	3 ft.	5E3	**3F387**
5"	4 ft.	5E4	**3F388**
5"	5 ft.	5E5	**3F337**
6"	2 ft.	6E24	**3F338**
6"	3 ft.	6E3	**3F339**
6"	4 ft.	6E4	**3F340**
6"	5 ft.	6E5	**3F341**
Adjustable Gas Vent Pipe			
3"	1 ft.	3E12A	**3F360**
4"	1 ft.	4E12A	**3F361**
5"	1 ft.	5E12A	**3F362**
6"	1 ft.	6E12A	**3F363**

Gas Vent Pipe Dia.	Mfr. Model	Item No.
Furnace/Water Heater Kits		
3"	3EK	**3F348**
4"	4EK	**3F349**
5"	5EK	**3F350**
6"	6EK	**3F351**

Gas Vent Pipe Dia.	Dimensions A	B	Mfr. Model	Item No.
Standard Tees				
3"	7⅛"	4⅛"	3ET	**3F374**
4"	8⅛"	4⅝"	4ET	**3F375**
5"	10"	5¼"	5ET	**3F376**
6"	11½"	5¾"	6ET	**3F377**
Adjustable Gas Vent Elbows, 90°				
3"	4½"	5¼"	3EAL	**3F356**
4"	5"	5½"	4EAL	**3F357**
5"	5½"	6"	5EAL	**3F358**
6"	6½"	7"	6EAL	**3F359**
Vent Caps				
3	6¾"	2⅞"	3CW	**3F352**
4	6¾"	4⅜"	4CW	**3F353**
5	9⅞"	4⅝"	5CW	**3F354**
6	9⅞"	5¾"	6CW	**3F355**
Adapters				
4" Female Vent Adapter			4EUA-F	**6E806**
4" Male Vent Adapter			4EUA-M	**6E805**
5" Female Vent Adapter			5EUA-F	**6E808**
5" Male Vent Adapter			5EUA-M	**6E807**
6" Female Vent Adapter			6EUA-F	**6E810**

Gas Vent Pipe Support Inside Dia.	Skirt	Mfr. Model	Item No.
Firestop Support Plates			
3"	5½"	3FSP	**3F364**
4"	6½"	4FSP	**3F365**
5"	7½"	5FSP	**3F366**
6"	8½"	6FSP	**3F367**

Smoke Emitters

Rapidly produce dense smoke for leak detection and air-flow analysis. Suitable for HVAC ductwork, exhaust ventilation systems, fire systems, leak testing of boilers, tanks and other enclosures, and air flow testing of chimneys and flues. No. 3KLJ7 can be daisy-chained for longer smoke production. Use matches or pellets when smaller volume of smoke is needed.

Superior SMOKE

Time	Volume (cu. ft.)	Mfr. Model	Item No.	Pkg. Qty.
Candles				
30 sec.	4,000	1A	**3KLJ8**	12
60 sec.	8000	2B	**3KLJ9**	12
3 min.	40,000	3C	**3KLK1**	12
3 min.	40,000	W3C	**3KLJ7** *	12
Matches				
20 sec.	30	SPM	**35LX66**	36
Pellets				
30 sec.	200	SP5	**35LX67**	12
60 sec.	400	SP8	**35LX68**	10
60 sec.	500	SP13	**35LX69**	12

** Double wick.*



No. 3KLK1

Single-Wall Connector Systems

AMERIVENT®

Single-wall flexible vent connector connects one or more appliances to double-wall Type B Gas Vent. Use for listed gas appliances with a draft hood or other gas appliances listed for use with Type B Gas Vent.

Flexible Pipe: 0.012" aluminum alloy 3003. Single wall pipe ends: 0.018" aluminum-zinc coated steel. Rigid components: 0.018" aluminum-zinc coated steel. Clearance: 1" to combustibles. Do not enclose. Do not pass through walls, floors, or ceilings.

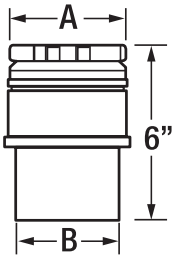
Appliance Connector—Sized to fit outlet. Use sheet metal screws for code approved appliance connection.

Universal Adapter—Short slip connection with Ameri-Flex single wall snaplock base.

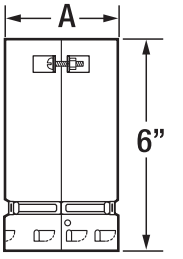
Vent Pipe Hanger—Provides 1½" spacing (Order same size as pipe diameter).

Reduction Wye—Features branch and/or base with smaller diameter than trunk size. Cap connection for furnace and water heater in common connector.

Flexible Pipe Section—Single wall corrugated aluminum connects from the appliance to Type B Gas Vent. May be compressed 4" per foot to shorten lengths. Cap ends offer snaplock design.



Appliance Connector



Universal Adapter

Gas Vent Pipe Dia.	Gas Vent Pipe Length	Dimensions A	B	C	D	Mfr. Model	Item No.
Appliance Connector							
3"	6"	3½"	3"	—	—	3FCAC	**4E855**
4"	6"	4½"	4"	—	—	4FCAC	**4E861**
Universal Adapter							
4"	6"	4½"	—	—	—	4FCA	**4E862**
5"	6"	5½"	—	—	—	5FCA	**4E864**
Vent Pipe Hanger							
3"	—	—	—	—	—	3VPH	**4E857**
4"	—	—	—	—	—	4VPH	**4E863**
5"	—	—	—	—	—	5VPH	**4E867**
Reduction Wye							
5"	1 ft.	5½"	3½"	4½"	12"	5FCY34	**4E865**
5"	13½"	5½"	4½"	4½"	13½"	5FCY44	**4E866**
Flexible Vent Pipe Section							
3"	5 ft.	—	—	—	—	3FC5	**4E852**
3"	3 ft.	—	—	—	—	3FC3	**4E853**
4"	5 ft.	—	—	—	—	4FC5	**4E858**
4"	3 ft.	—	—	—	—	4FC3	**4E859**
4"	1 ft.	—	—	—	—	4FC12	**4E860**



No. 3KLK3

REGIN HVAC PRODUCTS, INC.

Smoke Emitters

Produce clean, nontoxic, oil-free smoke to quickly find air-flow leaks in heat exchangers, air ducts, chimneys, tanks, boilers, and piping. Won't stain clothing or building interiors. Contain no explosives. Also used for fire drills and to test smoke alarms/detectors.

Time	Volume (cu. ft.)	Mfr. Model	Item No.	Pkg. Qty.
Matches				
15 to 20 sec.	20 a 30	S210-25	**22CU34**	25
15 to 20 sec.	20 to 30	S210-100	**22CU35**	100
Emitters				
45 sec.	150	S102	**3KLK3**	10
45 sec.	150	S102-50	**22CU36**	50
90 sec.	600	S103	**3KLK2**	10
90 sec.	600	S103-50	**22CU37**	50
3 min.	1,200	S104	**3KLZ2**	5
4 min.	2,500	S105	**3KLZ3**	5
8 min.	18,000	S107	**22CU33**	1
Bottle				
7 sec.	1 to 300	FP201	**22CU32**	1
Pen				
3 hr.	300	S220	**3LHW9**	1
Pen Replacement Wicks				
30 min.	10	3KXX4	**3KXX4**	6
Carbon Monoxide Bump Tester				
Includes Smoke Pen, (6) Wicks, Filter and Applicator		CO BUMP TESTERCO 101	**31XL71**	1

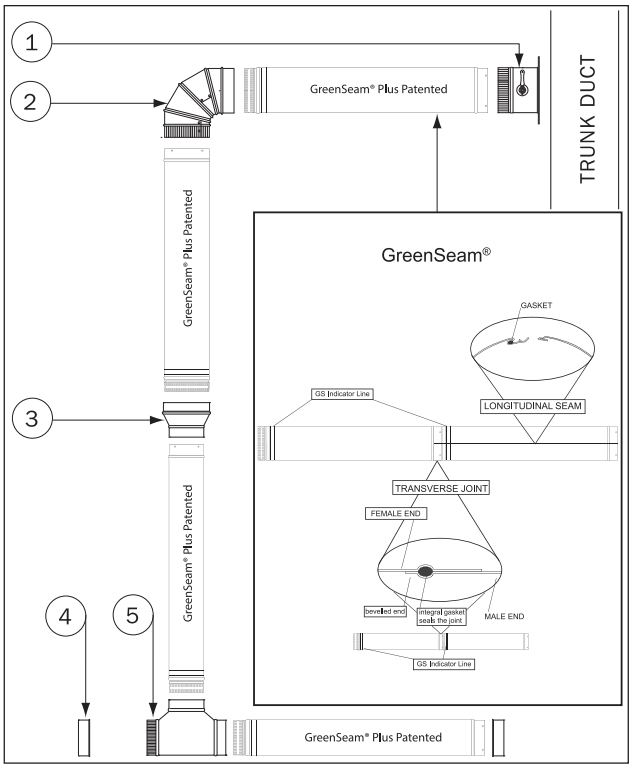
Duct and Fittings

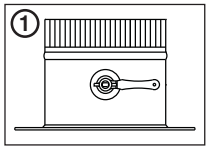
GSI

GreenSeam® Plus Snap-Lock Pipe is self-sealing duct for commercial and residential applications. Engineered with a LEED® qualifying zero-VOC gasket; eliminates additional sealing along the longitudinal seams and transverse joint. When used with GSI sealed fittings, GreenSeam® Plus system reduces energy costs and increases overall system efficiency. Each box contains five 5-ft. sections (25-ft. total). Note: Call 1-800-GRAINGER (472-4643) for specialty ordering information.

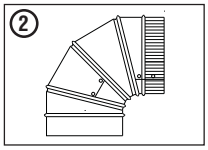
Duct Fitting Dia.	Duct Fitting Length	H	26 ga. Item No.	24 ga. Item No.
GreenSeam® Snap Lock Pipe				
4"	60"	—	6EKE9	—
5"	60"	5"	6PGC8	6PGD1
6"	60"	—	6EKF0	6EKF6
7"	60"	7"	6PGC9	6PGD2
8"	60"	—	6EKF1	6EKF7
9"	60"	9"	6PGD0	6PGD3
10"	60"	—	6EKF2	6EKF8
12"	60"	—	6EKF3	6EKF9
14"	60"	—	6EKF4	6EKG0
1. Collar W/Damper				
4"	5"	6"	6EKH3	—
5"	5"	6"	6PGD9	6PGE2
6"	5"	6"	6EKH4	6EKJ0
7"	5"	6"	6PGE0	6PGE3
8"	5"	6"	6EKH5	6EKJ1
9"	5"	6"	6PGE1	6PGE4
10"	5"	6"	6EKH6	6EKJ2
12"	5"	6"	6EKH7	6EKJ3
14"	5"	6"	6EKH8	6EKJ4
2. 90° Elbow				
4"	7"	6¾"	6EKG1	6EKG7
5"	8"	6¾"	6PGD4	6PGD7
6"	9"	9"	6EKG2	6EKG8
7"	10"	9"	6PGD5	6PGD8
8"	11"	11"	6EKG3	6EKG9
9"	13"	11"	6PGD6	—
10"	14"	13"	6EKG4	6EKH0
12"	16"	15"	6EKG5	6EKH1
14"	17½"	17"	6EKG6	6EKH2
4. End Cap				
4"	2"	2"	6EKJ5	6EKK1
5"	2"	2"	6PGE5	6PGE8
6"	2"	2"	6EKJ6	6EKK2
7"	2"	2"	6PGE6	6PGE9
8"	2"	2"	6EKJ7	6EKK3
9"	2"	2"	6PGE7	6RFY5
10"	2"	2"	6EKJ8	6EKK4
12"	2"	2"	6EKJ9	6EKK5
14"	2"	2"	6EKK0	6EKK6
5. Tee				
4"	10½"	8"	6EKN4	—
5"	14⅛"	9"	6RFY6	6RFY9
6"	13"	9½"	6EKN5	6EKP1
7"	14½"	11"	6RFY7	6RFZ0
8"	15¾"	12⅛"	6EKN6	6EKP2
9"	16¾"	13½"	6RFY8	6RFZ1
10"	20"	14⅛"	6EKN7	6EKP3
12"	21½"	16¾"	6EKN8	6EKP4
14"	24"	18¾"	6EKN9	6EKP5

Duct Fitting Dia.	26 ga. Item No.	24 ga. Item No.
3. Reducers		
5" x 4"	6RFZ2	6RGA2
6" x 4"	6EKK7	6EKL8
6" x 5"	6RFZ3	6RGA3
7" x 5"	6RFZ4	6RGA4
7" x 6"	6RFZ5	6RGA5
8" x 4"	6EKK8	—
8" x 6"	6EKK9	6EKL9
8" x 7"	6RFZ6	6RGA6
9" x 6"	6RFZ7	6RGA7
9" x 7"	6RFZ8	6RGA8
9" x 8"	6RFZ9	6RGA9
10" x 6"	6EKL0	—
10" x 8"	6EKL1	6EKN0
10" x 9"	6RGA0	6RGC0
12" x 6"	6EKL2	—
12" x 8"	6EKL3	—
12" x 10"	6EKL4	6EKN1
12" x 9"	6RGA1	6RGC1
14" x 8"	6EKL5	—
14" x 10"	6EKL6	6EKN2
14" x 12"	6EKL7	6EKN3

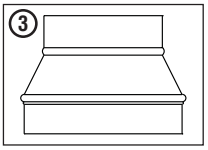




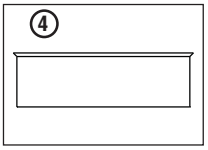
Press-On Collar w/Damper



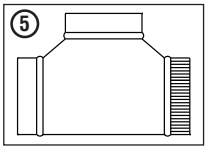
90° Adjustable Elbow



Reducer



End Cap



Tee

westaflex

Chimney Liner Kits

- High temp.: 500°F
- Natural gas only

Liners are flexible and durable. Kits also include flashing, rain cap, B-vent connector, and mortar sleeve.

Gas Vent Pipe Item	Liner Material	Gas Vent Pipe Dia.	Gas Vent Pipe Length	Min. Length	Max. Duct Length	Mfr. Model	Item No.
Chimney Liner Kit	Aluminum	4"	35 ft.	10 ft.	45 ft.	9505	**13E236**
Chimney Liner Kit	Aluminum	4"	25 ft.	10 ft.	45 ft.	9504	**13E237**
Chimney Liner Extension	Aluminum	4"	10 ft.	10 ft.	—	9505-ext	**13E238**
Chimney Liner Kit	Aluminum	5"	35 ft.	10 ft.	45 ft.	9509	**13E239**
Chimney Liner Kit	Aluminum	5"	25 ft.	10 ft.	45 ft.	9506	**13E240**
Chimney Liner Extension	Aluminum	5"	10 ft.	10 ft.	—	9509-ext	**13E241**
Chimney Liner Kit	Aluminum	6"	35 ft.	10 ft.	45 ft.	9513	**13E242**
Chimney Liner Kit	Aluminum	6"	25 ft.	10 ft.	45 ft.	9516	**13E243**
Chimney Liner Extension	Aluminum	6"	10 ft.	10 ft.	—	9513-ext	**13E244**

No. 13E236



Chimney Liner Kits

AMERIVENT®

Allow you to easily line a masonry chimney. Aluminum models are suitable for Category 1, gas-fired appliances with B-vent, or appliances with a draft hood. They include a liner, rain cap, flashing, B-vent connector, and mortar sleeve. Stainless steel kit is ideal for natural draft appliances using gas, oil, or wood. Includes a liner, rain cap, flashing adapter, flashing, flexible connector, tee, and tee cap. Pull Downs Nos. 40LJ33 and 40LJ39 let you stretch and lead the flexible liner down the chimney.

Gas Vent Pipe Item	High Temp. Degrees	Gas Vent Pipe Dia.	Gas Vent Pipe Length	Max. Duct Length	Mfr. Model	Item No.
Aluminum Liner, For Use With Natural Gas						
Chimney Liner Kit	470°F	3"	35 ft.	35 ft.	3ALK35	**40LJ40**
Chimney Liner Kit	470°F	4"	35 ft.	35 ft.	4ALK35	**40LJ41**
Chimney Liner Kit	470°F	5"	35 ft.	35 ft.	5ALK35	**40LJ42**
Chimney Liner Kit	470°F	6"	35 ft.	35 ft.	6ALK35	**40LJ43**
Stainless Steel Liner, For Use With Oil Burning Appliances, Wood Stoves and Pellet Stoves						
Chimney Liner	1000°F	8"	35 ft.	35 ft.	8SL-35L	**40LJ37**
Accessories						
Pull Down	—	6"	4 51/64"	—	6FX-PD	**40LJ33**
Pull Down	—	8"	7 13/64"	—	8FX-PD	**40LJ39**



Scan. Order. Done.
Details on page A1.

NORDFAB Ducting

Duct & Fittings

Quick-Fit™ Pipe— Laser welded seam prevents leakage; rolled edge on ends allows quick connection with Quick-Fit™ clamps.

Quick-Fit™ Duct Clamps with Pin—Open and close quickly; provide a tight seal. One connection clamp required to join 2 components.

Quick-Fit™ Adjustable Nipple—Use to provide variable length adjustment of Quick-Fit™ ducting system. Black rubber O-ring included.

Quick-Fit™ Angle Flange—Industry standard flange.

Quick-Fit™ Angle Flange Adapter—Use for quick connection of Quick-Fit™ pipe, fittings to flanged pipes or fittings.

Quick-Fit™ End Cap—Use with Quick-Fit™ Clamp to cap off an unused ducting port.


No. 40D522


No. 40D622


No. 40D527


No. 40D612


No. 29RN87


No. 40D617


No. 45ZD38


No. 40D557


No. 45ZA08

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Pipe, 59"L			
4"	3200-0400	40D522	45ZA21
5"	3200-0500	45ZA22	45ZA23
6"	3200-0600	40D523	45ZA24
7"	3200-0700	45ZA25	45ZA26
8"	3200-0800	40D524	45ZA27
9"	3200-0900	45ZA28	45ZA29
10"	3200-1000	40D525	45ZA30
12"	3200-1200	40D526	45ZA31
14"	3200-1400	29RM96	45ZA32
16"	3200-1600	29RM97	45ZA33
Quick-Fit™ Duct Clamp with Pin			
4"	3260-0400	40D622	45ZD64
5"	3260-0500	45ZD65	45ZD66
6"	3260-0600	40D623	45ZD67
7"	3260-0700	45ZD68	45ZD69
8"	3260-0800	40D624	45ZD70
9"	3260-0900	45ZD71	45ZD72
10"	3260-1000	40D625	45ZD73
12"	3260-1200	40D626	45ZD74
14"	3260-1400	29RM98	45ZD75
16"	3260-1600	29RM99	45ZD76
Quick-Fit™ Adj. Nipple w/ Black Rubber O-Ring			
4"	3202-0400	40D527	45ZA34
5"	3202-0500	45ZA35	45ZA36
6"	3202-0600	40D528	45ZA37
7"	3202-0700	45ZA38	45ZA39
8"	3202-0800	40D529	45ZA40
9"	3202-0900	45ZA41	45ZA42
10"	3202-1000	40D530	45ZA43
12"	3202-1200	40D531	45ZA44
14"	3202-1400	29RN01	45ZA45
16"	3202-1600	29RN02	45ZA46
Replacement O-Ring for Adj. Nipple			
4"	3262-0400	40D627	—
5"	3262-0500	45ZD77	—
6"	3262-0600	40D628	—
7"	3262-0700	45ZD78	—
8"	3262-0800	40D629	—
9"	3262-0900	45ZD79	—
10"	3262-1000	40D630	—
12"	3262-1200	40D631	—
14"	3262-1400	29RN03	—
16"	3262-1600	29RN04	—
Quick-Fit™ Angle Flange			
4"	3261-0400	29RN87	—
6"	3261-0600	29RN88	—
8"	3261-0800	29RN89	—
10"	3261-1000	29RN90	—
12"	3261-1200	29RN91	—
14"	3261-1400	29RN92	—
16"	3261-1600	29RN93	—
Quick-Fit™ Angle Flange Adapter			
4"	3250-0400	40D617	45ZD51
5"	3250-0500	45ZD52	45ZD53
6"	3250-0600	40D618	45ZD54
7"	3250-0700	45ZD55	45ZD56
8"	3250-0800	40D619	45ZD57
9"	3250-0900	45ZD58	45ZD59
10"	3250-1000	40D620	45ZD60
12"	3250-1200	40D621	45ZD61
14"	3250-1400	29RN32	45ZD62
16"	3250-1600	29RN33	45ZD63
Quick-Fit™ Machine Adapter			
4"	3249-0400	40D612	45ZD38
5"	3249-0500	45ZD39	45ZD40
6"	3249-0600	40D613	45ZD41
7"	3249-0700	45ZD42	45ZD43
8"	3249-0800	40D614	45ZD44
9"	3249-0900	45ZD45	45ZD46
10"	3249-1000	40D615	45ZD47
12"	3249-1200	40D616	45ZD48
14"	3249-1400	29RN36	45ZD49
16"	3249-1600	29RN37	45ZD50
Quick-Fit™ Reducer			
5" x 4"	3222-0504	45ZC81	45ZC82
6" x 4"	3222-0604	40D557	45ZC84
6" x 5"	3222-0605	45ZC83	45ZC85
7" x 6"	3222-0706	45ZC86	—
8" x 4"	3222-0804	40D558	—
8" x 6"	3222-0806	40D559	45ZC87
9" x 6"	3222-0906	45ZC88	—
10" x 4"	3222-1004	40D560	—
10" x 6"	3222-1006	40D561	45ZC89
10" x 8"	3222-1008	40D562	45ZC90
12" x 4"	3222-1204	40D563	—
12" x 6"	3222-1206	40D564	—
12" x 8"	3222-1208	40D565	45ZC91
12" x 10"	3222-1210	40D566	45ZC92
14" x 4"	3222-1404	29RN11	—
14" x 6"	3222-1406	29RN12	—
14" x 8"	3222-1408	29RN13	—
14" x 10"	3222-1410	29RN14	—
14" x 12"	3222-1412	29RN15	45ZC93
16" x 4"	3222-1604	29RN17	—
16" x 6"	3222-1606	29RN18	—
16" x 8"	3222-1608	29RN19	—
16" x 10"	3222-1610	29RN20	—
16" x 12"	3222-1612	29RN21	—
16" x 14"	3222-1614	29RN22	45ZC94
Quick-Fit™ End Cap			
4"	3151-0400	29RN66	45ZA08
5"	3151-0500	45ZA09	45ZA10
6"	3151-0600	29RN67	45ZA11
7"	3151-0700	45ZA12	45ZA13
8"	3151-0800	29RN68	45ZA14
9"	3151-0900	45ZA15	45ZA16


No. 40D637


No. 40D597


No. 29RN73


No. 29RN80


No. 40D567


No. 40D582

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
10"	3151-1000	29RN69	45ZA17
12"	3151-1200	29RN70	45ZA18
14"	3151-1400	29RN71	45ZA19
16"	3151-1600	29RN72	45ZA20
Quick-Fit™ Standard Branch, 30° Angle			
4"	3220-0404	40D637	45ZC54
5"	3220-0505	45ZC55	45ZC56
6"	3220-0606	40D638	45ZC57
7"	3220-0707	45ZC58	45ZC59
8"	3220-0808	40D639	45ZC60
9"	3220-0909	45ZC61	45ZC62
10"	3220-1010	40D640	45ZC63
12"	3220-1212	40D641	45ZC64
14"	3220-1414	29RN07	45ZC65
16"	3220-1616	45ZC66	45ZC67
Quick-Fit™ T-Branch, 90° Angle			
4"	3227-0404	40D597	45ZD07
5"	3227-0505	45ZD08	45ZD09
6"	3227-0606	40D598	45ZD10
7"	3227-0707	45ZD11	45ZD12
8"	3227-0808	40D599	45ZD13
9"	3227-0909	45ZD14	45ZD15
10"	3227-1010	40D601	45ZD16
12"	3227-1212	40D602	45ZD17
14"	3227-1414	29RN09	45ZD18
16"	3227-1616	29RN10	45ZD19
Quick-Fit™ Y-Branch, 60° Angle			
4"	3221-0404	29RN73	45ZC68
5"	3221-0505	45ZC69	45ZC70
6"	3221-0606	29RN74	45ZC71
7"	3221-0707	45ZC72	45ZC73
8"	3221-0808	29RN75	45ZC74
9"	3221-0909	45ZC75	45ZC76
10"	3221-1010	29RN76	45ZC77
12"	3221-1212	29RN77	45ZC78
14"	3221-1414	29RN78	45ZC79
16"	3221-1616	29RN79	45ZC80
Quick-Fit™ Double Branch, 60° Angle			
4"	3226-0404	29RN80	—
5"	3226-0505	45ZD04	—
6"	3226-0606	29RN81	—
7"	3226-0707	45ZD05	—
8"	3226-0808	29RN82	—
9"	3226-0909	45ZD06	—
10"	3226-1010	29RN83	—
12"	3226-1212	29RN84	—
14"	3226-1414	29RN85	—
16"	3226-1616	29RN86	—
Quick-Fit™ In-Cut, 30° Angle			
4" x 4"	3223-0404	40D567	—
6" x 4"	3223-0604	40D568	—
6" x 6"	3223-0606	40D570	45ZC95
8" x 4"	3223-0804	40D569	—
8" x 6"	3223-0806	40D571	45ZC96
8" x 8"	3223-0808	40D572	—
10" x 4"	3223-1004	40D573	—
10" x 6"	3223-1006	40D574	45ZC97
10" x 8"	3223-1008	40D575	—
10" x 10"	3223-1010	40D576	—
12" x 4"	3223-1204	40D577	—
12" x 6"	3223-1206	40D578	45ZC98
12" x 8"	3223-1208	40D579	—
12" x 10"	3223-1210	40D580	—
12" x 12"	3223-1212	40D581	—
14" x 4"	3223-1404	29RN38	—
14" x 6"	3223-1406	29RN39	—
14" x 8"	3223-1408	29RN40	—
14" x 10"	3223-1410	29RN41	—
14" x 12"	3223-1412	29RN42	—
16" x 4"	3223-1604	29RN44	—
16" x 6"	3223-1606	29RN45	—
16" x 8"	3223-1608	29RN46	—
16" x 10"	3223-1610	29RN47	—
16" x 12"	3223-1612	29RN48	—
16" x 14"	3223-1614	29RN49	—
16" x 16"	3223-1616	29RN50	—
Quick-Fit™ Tap-In, 90° Angle			
4" x 4"	3224-0404	40D582	—
6" x 4"	3224-0604	40D583	—
6" x 6"	3224-0606	40D585	45ZC99
8" x 4"	3224-0804	40D584	—
8" x 6"	3224-0806	40D586	45ZD01
8" x 8"	3224-0808	40D587	—
10" x 4"	3224-1004	40D588	—
10" x 6"	3224-1006	40D589	45ZD02
10" x 8"	3224-1008	40D590	—
10" x 10"	3224-1010	40D591	—
12" x 4"	3224-1204	40D592	—
12" x 6"	3224-1206	40D593	45ZD03
12" x 8"	3224-1208	40D594	—
12" x 10"	3224-1210	40D595	—
12" x 12"	3224-1212	40D596	—
14" x 4"	3224-1404	29RN51	—
14" x 6"	3224-1406	29RN52	—
14" x 8"	3224-1408	29RN53	—
14" x 10"	3224-1410	29RN54	—
14" x 12"	3224-1412	29RN55	—
14" x 14"	3224-1414	29RN56	—
16" x 4"	3224-1604	29RN57	—
16" x 6"	3224-1606	29RN58	—
16" x 8"	3224-1608	29RN59	—
16" x 10"	3224-1610	29RN60	—
16" x 12"	3224-1612	29RN61	—
16" x 14"	3224-1614	29RN62	—
16" x 16"	3224-1616	29RN63	—

CONTINUED

CONTINUED

NORDFAB Ducting

Duct & Fittings

Quick-Fit™ Elbow—4"- and 7"-dia. elbows are press formed; others are segmented.

Quick-Fit™ Manual Blast Gate—Cast aluminum body.

Quick-Fit™ SD Automatic Blast Gate—Standard 120V control and 75 psi air pressure.

Quick-Fit™ NFES Automatic Blast Gate—Standard 120V control and 75 psi air pressure. Single cylinder, except Nos. 29RP19 to 29RP22 are 2 cylinder.

Quick-Fit™ Router Hood—Standard opening 6" x 12". Edges are folded to inside for safety.

Quick-Fit™ Vibration Isolator—Helps keep vibration from passing from the fan to the ducting system.

Quick-Fit™ Ball Joint—Allows 22° off-center movement. Ideal for machines with moving dust ports.

Quick-Fit™ Jet Cap—Helps prevent moisture from entering the ductwork.

Quick-Fit™ HJ Pipe Hanger—Connects directly to ceiling and minimizes pipe movement.

Quick-Fit™ Butterfly Valve—Standard locking quadrant handle enables user to regulate air volume in clean air applications.



No. 40D552

Duct Fitting Dia.	Radius	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Elbow				
4"	30°	3210-0430	40D537	—
4"	45°	3210-0445	40D538	—
4"	60°	3210-0460	40D539	—
4"	90°	3210-0490	40D540	—
4"	90°	3210-0490	45ZA64	—
5"	30°	3210-0530	45ZA66	—
5"	45°	3210-0545	45ZA68	—
5"	60°	3210-0560	45ZA70	—
5"	90°	3210-0590	45ZA71	—
5"	90°	3210-0590	45ZA73	—
6"	30°	3210-0630	40D541	—
6"	45°	3210-0645	40D542	—
6"	60°	3210-0660	40D543	—
6"	90°	3210-0690	40D544	—
6"	90°	3210-0690	45ZA79	—
7"	30°	3210-0730	45ZA81	45ZA82
7"	45°	3210-0745	45ZA83	45ZA84
7"	60°	3210-0760	45ZA85	45ZA86
7"	90°	3210-0790	45ZA87	45ZA88
7"	90°	3210-0790	45ZA89	45ZA90
8"	30°	3210-0830	40D545	45ZA91
8"	45°	3210-0845	40D546	45ZA92
8"	60°	3210-0860	40D547	45ZA93
8"	90°	3210-0890	40D548	45ZA94
8"	90°	3210-0890	45ZA95	45ZA96
9"	30°	3210-0930	45ZA97	45ZA98
9"	45°	3210-0945	45ZA99	45ZC01
9"	60°	3210-0960	45ZC02	45ZC03
9"	90°	3210-0990	45ZC04	45ZC05
10"	30°	3210-1030	40D549	45ZC06
10"	45°	3210-1045	40D550	45ZC07
10"	60°	3210-1060	40D551	45ZC08
10"	90°	3210-1090	40D552	45ZC09
12"	30°	3210-1230	40D553	45ZC10
12"	45°	3210-1245	40D554	45ZC11
12"	60°	3210-1260	40D555	45ZC12
12"	90°	3210-1290	40D556	45ZC13
14"	30°	3210-1430	29RN24	45ZC14
14"	45°	3210-1445	29RN25	45ZC15
14"	60°	3210-1460	29RN26	45ZC16
14"	90°	3210-1490	29RN27	45ZC17
16"	30°	3210-1630	29RN28	45ZC18
16"	45°	3210-1645	29RN29	45ZC19
16"	60°	3210-1660	29RN30	45ZC20
16"	90°	3210-1690	29RN31	45ZC21
Quick-Fit™ Tubed Elbow				
4"	30°	3214-0430	45ZC22	45ZA60
4"	45°	3214-0445	45ZC24	45ZA61
4"	60°	3214-0460	45ZC26	45ZA62
4"	90°	3214-0490	45ZC28	45ZA63
4"	90°	3214-0490	—	45ZA65
5"	30°	3214-0530	45ZC30	45ZA67
5"	45°	3214-0545	45ZC32	45ZC33
5"	60°	3214-0560	45ZC34	45ZC35
5"	90°	3214-0590	45ZC36	45ZA72
5"	90°	3214-0590	—	45ZA74
6"	30°	3214-0630	45ZC38	45ZA75
6"	45°	3214-0645	45ZC40	45ZA76
6"	60°	3214-0660	45ZC42	45ZA77
6"	90°	3214-0690	45ZC44	45ZA78
6"	90°	3214-0690	—	45ZA80
8"	30°	3214-0830	45ZC46	45ZC47
8"	45°	3214-0845	45ZC48	45ZC49
8"	60°	3214-0860	45ZC50	45ZC51
8"	90°	3214-0890	45ZC52	45ZC53



No. 45ZA60



No. 40D607

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Manual Blast Gate			
4"	3240-0400	40D607	45ZD21
5"	3240-0500	45ZD22	45ZD23
6"	3240-0600	40D608	45ZD24
7"	3240-0700	45ZD25	45ZD26
8"	3240-0800	40D609	45ZD27
9"	3240-0900	45ZD28	45ZD29
10"	3240-1000	40D610	45ZD30
12"	3240-1200	40D611	45ZD31
14"	3240-1400	29RN64	45ZD32
16"	3240-1600	29RN65	45ZD33
Quick-Fit™ NFMES Manual Blast Gate			
4"	3241-0400	29RP02	—
6"	3241-0600	29RP03	—
8"	3241-0800	29RP04	—
10"	3241-1000	29RP05	—
12"	3241-1200	29RP06	—
14"	3241-1400	29RP07	—
16"	3241-1600	29RP08	—
Quick-Fit™ SD Automatic Blast Gate			
4"	3242-0400	29RP09	—
6"	3242-0600	29RP10	—
8"	3242-0800	29RP11	—
10"	3242-1000	29RP12	—
12"	3242-1200	29RP13	—
14"	3242-1400	29RP14	—
16"	3242-1600	29RP15	—
Quick-Fit™ NFES Automatic Blast Gate			
4"	3245-0400	29RP16	—
6"	3245-0600	29RP17	—
8"	3245-0800	29RP18	—
10"	3245-1000	29RP19	—
12"	3245-1200	29RP20	—
14"	3245-1400	29RP21	—
16"	3245-1600	29RP22	—



No. 29RP02



No. 29RP09



No. 29RP16



No. 29RN94



No. 40D603



No. 29RP30



No. 29RP37



No. 29RP43



No. 45ZD34

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Bell Mouth Adapter			
4"	3251-0400	29RN94	—
6"	3251-0600	29RN95	—
8"	3251-0800	29RN96	—
10"	3251-1000	29RN97	—
12"	3251-1200	29RN98	—
14"	3251-1400	29RN99	—
16"	3251-1600	29RP01	—
Quick-Fit™ Router Hood			
4"	3231-0400	40D603	—
5"	3231-0500	45ZD20	—
6"	3231-0600	40D604	—
8"	3231-0800	40D605	—
10"	3231-1000	40D606	—
Quick-Fit™ Vibration Isolator			
4"	3206-0400	29RP30	—
6"	3206-0600	29RP31	—
8"	3206-0800	29RP32	—
10"	3206-1000	29RP33	—
12"	3206-1200	29RP34	—
14"	3206-1400	29RP35	—
16"	3206-1600	29RP36	—
Quick-Fit™ Ball Joint			
4"	3209-0400	29RP37	—
6"	3209-0600	29RP38	—
8"	3209-0800	29RP39	—
10"	3209-1000	29RP40	—
12"	3209-1200	29RP41	—
14"	3209-1400	29RP42	—
Quick-Fit™ Jet Cap			
6"	3258-0600	29RP43	—
8"	3258-0800	29RP44	—
10"	3258-1000	29RP45	—
12"	3258-1200	29RP46	—
14"	3258-1400	29RP47	—
16"	3258-1600	29RP48	—
T3 Quick-Fit™ Floor Sweep			
4"	3248-0400	45ZD34	—
5"	3248-0500	45ZD35	—
6"	3248-0600	45ZD36	—
7"	3248-0700	45ZD37	—



No. 45ZD80



No. 29RP23

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Pipe Hanger			
4"	3265-0400	45ZD80	—
5"	3265-0500	45ZD81	—
6"	3265-0600	45ZD82	—
7"	3265-0700	45ZD83	—
8"	3265-0800	45ZD84	—
9"	3265-0900	45ZD85	—
10"	3265-1000	45ZD86	—
Quick-Fit™ HJ Pipe Hanger			
4"	3265-0400	29RP23	—
6"	3265-0600	29RP24	—
8"	3265-0800	29RP25	—
10"	3265-1000	29RP26	—
12"	3265-1200	29RP27	—
14"	3265-1400	29RP28	—
16"	3265-1600	29RP29	—



No. 40D632

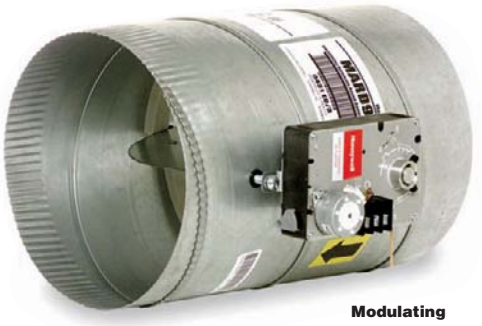


No. 45ZD87



No. 40D532

Duct Fitting Dia.	Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Item No.
Quick-Fit™ Hose Adapter			
4"	3282-0400	40D632	45ZD92
5"	3282-0500	45ZD93	45ZD94
6"	3282-0600	40D633	45ZD95
7"	3282-0700	45ZD96	45ZD97
8"	3282-0800	40D634	45ZD98
9"	3282-0900	45ZD99	45ZE01
10"	3282-1000	40D635	45ZE02
12"	3282-1200	40D636	45ZE03
14"	3282-1400	29RN34	45ZE04
16"	3282-1600	29RN35	45ZE05
Quick-Fit™ Rigid Steel Hose			
4"	3281-0400	45ZD87	—
5"	3281-0500	45ZD88	—
6"	3281-0600	45ZD89	—
7"	3281-0700	45ZD90	—
8"	3281-0800	45ZD91	—
Quick-Fit™ Butterfly Valve			
4"	3208-0400	40D532	45ZA47
5"	3208-0500	45ZA48	45ZA49
6"	3208-0600	40D533	45ZA50
7"	3208-0700	45ZA51	45ZA52
8"	3208-0800	40D534	45ZA53
9"	3208-0900	45ZA54	45ZA55
10"	3208-1000	40D535	45ZA56
12"	3208-1200	40D536	45ZA57
14"	3208-1400	29RN05	45ZA58
16"	3208-1600	29RN06	45ZA59



Modulating

Control Dampers

Note: Additional sizes available on Grainger.com®.

Automatic—Adjustable close position range stops; shipped as power closed/spring return open damper. Male/crimped, female/uncrimped ends connect to rigid or flexible round duct. 1" wc rated. 2-wire installation, third wire option.

Retrofit Zoning—Power open/power close actuator draws 2.5 VA, allowing multiple dampers per zone. 3-wire installation uses conventional thermostat wire.

Honeywell Home Honeywell

Fresh Air—Adjustable open position range stops; shipped as power open/spring return closed damper. Male/crimped, female/uncrimped ends connect to rigid or flexible round duct. 1" wc rated.

Modulating—With 24VAC, floating-control motor. For bypass and zone damper control. 90-sec. power-open, power-closed actuator. Screw terminal connection.

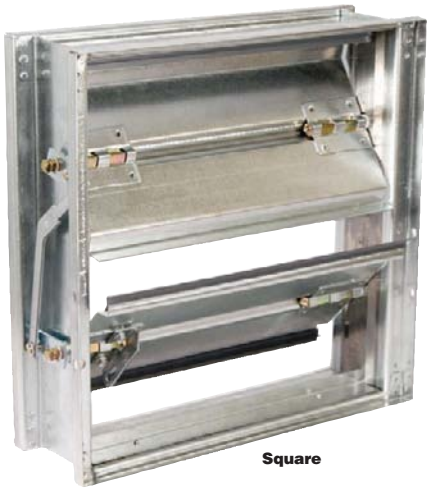
Conventional—Single-blade dampers for use with actuators Nos. 2HEZ5 or 2HEZ9 to control air flow.

Dia. (in.)	AUTOMATIC Mfr. Model	AUTOMATIC Item No.	RETROFIT ZONING Mfr. Model	RETROFIT ZONING Item No.	FRESH AIR Mfr. Model	FRESH AIR Item No.	MODULATING Mfr. Model	MODULATING Item No.	CONVENTIONAL Mfr. Model	CONVENTIONAL Item No.
Round Dampers										
5 in	ARD5TZ	**48KT55** *	RRD5	**1MBJ6** *	—	—	—	—	—	—
6 in	ARD6TZ	**48KT56** *	RRD6	**1MBJ7** *	EARD6TZ	**48KT66** *	MARD6	**279C29** †	D690A1002	**279C22** †
7 in	ARD7TZ	**48KT57** *	—	—	—	—	—	—	—	—
8 in	ARD8TZ	**48KT58** *	RRD8	**279C23** †	EARD8TZ	**48KT67** *	MARD8	**279C24** †	D690A1010	**279C21** †
9 in	ARD9TZ	**48KT59** *	—	—	—	—	—	—	—	—
10 in	ARD10TZ	**48KT60** *	—	—	—	—	MARD10	**279C32** †	—	—
12 in	ARD12TZ	**48KT61** *	—	—	—	—	MARD12	**2GZA2** *	D690A1036	**279C20** †
14 in	ARD14TZ	**48KT62** *	—	—	—	—	MARD14	**2GZA1** *	D690A1044	**279C25** †
16 in	ARD16TZ	**48KT63** *	—	—	—	—	—	—	D690A1051	**279C33** †
18 in	ARD18TZ	**48KT64** *	—	—	—	—	—	—	—	—
20 in	ARD20TZ	**48KT65** *	—	—	—	—	—	—	—	—

** Honeywell Home. † Honeywell.*

Dia. (in.)	STATIC PRESSURE REGULATING Mfr. Model	Item No.
Round Bypass Dampers, Honeywell Home		
8 in	CPRD8	**48KT70**
10 in	CPRD10	**48KT71**
12 in	CPRD12	**48KT72**
14 in	CPRD14	**48KT73**

Voltage	H	W	D	Mfr. Model	Item No.
Actuators For Use With Conventional Dampers, Honeywell					
24V AC	5 ½ in	3 ½ in	2 ½ in	ML6161B2024	**2HEZ5**
24V AC	5 9⁄16 in	3 3⁄8 in	3 in	ML7161A2008	**2HEZ9**
Damper Motors, Honeywell Home					
24V, For Use With Mfr. No. ARD, Mfr. No. ARDTZ, Mfr. No. ZD, Mfr. No. ZDTZ				M847D-ZONE	**48KT68**
24V, For Use With Mfr. No. EARD				M847D-VENT	**48KT69**



Square

Volume Control Dampers

Designed to regulate the volume of air moving through a duct system. Can be used as a positive shutoff or for automatic control. Install with blades in horizontal position. 24V and 120V actuators sold separately.

Dayton

GA GRAINGER APPROVED

amca CERTIFIED RATINGS AIR PERFORMANCE AIR MOVEMENT AND CONTROL ASSOCIATION, INC.

Type	Galvanized Steel Frame	Extruded Aluminum Frame	Opposed Blades	Round, Single-Blade	TPE Seals	Silicone Seals	Velocity Rating (fpm)	Pressure Rating (in. wg)	Max. Temp. (°F)
Square 3V	X		X		X		2000-3000	2.5-6.0	100
Square Airfoil	X		X		X		2500-4000	3.0-8.0	100
Square Extruded		X	X			X	3000-6000	2.0-6.0	180
Round Single-Blade	X			X		X	3000	4	180

Duct Dia.	Item No.
Round Single-Blade, Dayton	
6"	**3HGN7**
8"	**3HGN8**
10"	**3HGN9**
12"	**3HGP1**
14"	**3HGP2**

Duct W	Duct H	3V BLADE Item No.	AIRFOIL BLADE Item No.	EXTRUDED BLADE Item No.
Square, Dayton				
10"	10"	**2LRY6**	**3HGN2**	**3HGP3**
12"	12"	**2LRY7** *	**3HGN3** *	**3HGP4** *
16"	16"	**2LRY8**	**3HGN4**	**3HGP5**
18"	18"	**2LRY9**	**3HGN5**	**3HGP6**
24"	24"	**2LRZ1** *	**3HGN6** *	**3HGP7** *

Voltage	W	H	D	Item No.
Actuators (Power Open/Spring Close), GA				
24VAC/DC	3⅞"	6¾"	2¼"	**2LRZ2**
120VAC ±10%	3⅞"	6¾"	2¼"	**2LRZ3**

** AMCA certified. All dampers shown herein meet AMCA air performance ratings, but AMCA selects, tests, and certifies only the 12" x 12" and 24" x 24" sizes in an effort to equalize costs for small and large manufacturers.*



No. 5NKK1

Dayton

Motorized Hat Channel-Style Dampers

- 100 to 240V
- 50/60 Hz with end switch
- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm

Regulate airflow in medium- and low-pressure commercial applications. TPV louver seals and stainless steel jambs minimize leakage. Channel frames for installations inside walls or ductwork.

Actuator is internally installed. Mill-finish extruded aluminum frame (5" deep x 0.1" thick) and louvers (0.08" thick). Plated steel linkage and pivot pins.

Overall Square	Sq. Opening Req.	Free Area	Motor Bracket Extension*	Item No.
Single Panel, Power Open, Spring Return				
11¾"	12"	0.372 sq. ft.	11½"	**5NKK1**
15¾"	16"	1.050 sq. ft.	11½"	**5NKK2**
19¾"	20"	2.126 sq. ft.	11½"	**5NKK3**
23¾"	24"	3.172 sq. ft.	11½"	**5NKK4**
29¾"	30"	5.107 sq. ft.	11½"	**5NKK5**
35¾"	36"	7.559 sq. ft.	11½"	**5NKK6**
41¾"	42"	10.490 sq. ft.	11½"	**5NKK7**
47¾"	48"	13.900 sq. ft.	11½"	**5NKK8**

** From damper frame to end of bracket.*





Dayton

Fire Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Fire-resistance rating: 1½ hr.
- Max. temp.: 165°F
- Curtain blade style (square & rectangular); single-blade (round)
- NFPA 80 requires retaining angles

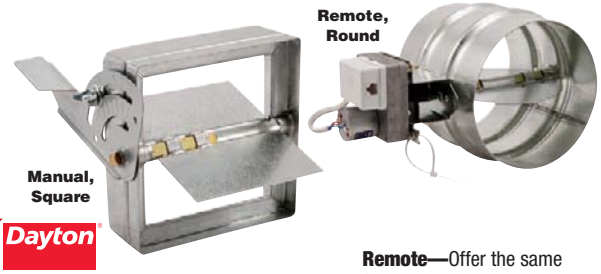
Dynamic
- Steel spring-assist closing
- Velocity rating: 2,000 fpm
- Pressure rating: 4" wg

Static—For zero-pressure during damper closing. Vertical-mount models close via gravity. Horizontal models have spring-assist closing.

Nom. Duct Dia.	Damper D	DYNAMIC, VERTICAL OR HORIZONTAL MOUNT Item No.
Round*		
4"	13⅝"	2TFZ4
6"	13⅝"	2TFZ5
8"	13⅝"	2TFZ6
10"	13⅝"	2TFZ7
12"	13⅝"	2TFZ8
14"	13⅝"	2TFZ9
Accessory		
165°F Fusible Link for Round		2TGJ3

Nom. Duct W	Nom. Duct H	DYNAMIC, VERTICAL OR HORIZONTAL MOUNT Item No.	STATIC, VERTICAL MOUNT Item No.	STATIC, HORIZONTAL MOUNT Item No.	RECOMMENDED RETAINING ANGLE Item No.
Square and Rectangular					
6"	6"	2TGE6	2TGA1	2TGC8	2TGG4
8"	8"	2TGE7	2TGA2	2TGC9	2TGG5
10"	6"	2TGE8	2TGA3	2TGD1	2TGG6
10"	10"	2TGE9	2TGA4	2TGD2	2TGG7
12"	6"	2TGF1	2TGA5	2TGD3	2TGG8
12"	8"	2TGF2	2TGA6	2TGD4	2TGG9
12"	10"	2TGF3	2TGA7	2TGD5	—
12"	12"	2TGF4	2TGA8	2TGD6	2TGH2
14"	12"	2TGF5	2TGA9	2TGD7	2TGH3
14"	14"	2TGF6	2TGC1	2TGD8	2TGH4
16"	8"	2TGF7	2TGC2	2TGD9	2TGH5
16"	12"	2TGF8	2TGC3	2TGE1	2TGH6
16"	16"	2TGF9	2TGC4	2TGE2	2TGH7
18"	18"	2TGG1	2TGC5	2TGE3	2TGH8
24"	12"	2TGG2	2TGC6	2TGE4	2TGH9
24"	24"	2TGG3	2TGC7	2TGE5	2TGJ1
Accessory					
165°F Fusible Link for Square or Rectangular Dampers					2TGJ2

** Retaining plate included for installation.*



Dayton

Balancing Dampers

- Galvanized steel
- Velocity rating: 2000 fpm
- Pressure rating: 1.0" wg
- Max. temp.: 180°F

Additional sizes available on Grainger.com®.

Manual—Designed to regulate airflow, but not intended for use where positive shut-off or automatic control is needed. Features manual hand quadrant that can be locked in place.

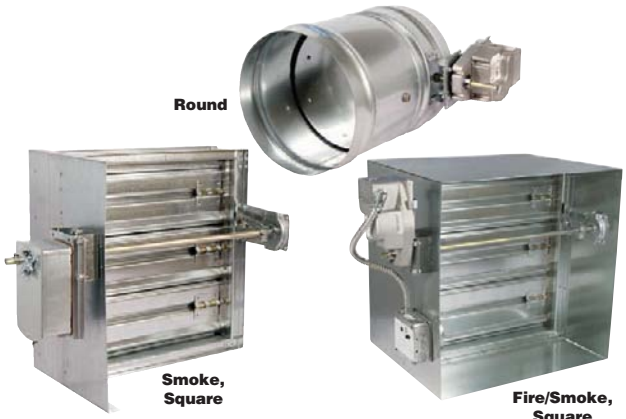
Duct W (in.)	Duct H (in.)	Item No.
Manual, Square & Rectangular		
6	6	22CV77
8	6	22CV84
8	8	22CV78
10	6	22CV85
10	8	22CV82
10	10	22CV80
12	6	22CV81
12	8	22CV83
12	10	22CV86
12	12	22CV79

Duct Dia. (in.)	Item No.
Manual, Round	
6	2TFX7
8	2TFX8
10	2TFX9
12	2TFY1
14	2TFY2
Remote, Round	
6	48C159
8	48C160
10	48C161
12	48C162

Remote—Offer the same function as manual balancing dampers with the additional ability to control damper remotely with No. 48C165 at wall plate or diffuser. Includes factory-mounted 9V actuator. Optional accessories sold separately.

WARNING: utilizing any controller other than No. 48C165 to adjust damper will void damper warranty.

Description	Item No.
Remote Balancing Accessories	
Quick Control Remote Kit,	48C165
Actuator Kit,	48C164
Cable Assembly, 14 ft., Plenum-Rated	48C170
Cable Assembly, 50 ft., Plenum-Rated	48C171
Cable Coupler Kit,	48C163
Wall/Ceiling Plate, White	48C167



Dayton

Motorized Smoke & Fire/Smoke Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Smoke leakage rating: Class II
- 3V blade (square); single-blade (round)
- Velocity rating: 2000 fpm (square); 3000 fpm (round)

Nom. Duct Dia.	D	24VAC Item No.	120VAC Item No.
Smoke, Round			
6"	8¼"	3HGH2	3HGH7
8"	8¼"	3HGH3	3HGH8
10"	8¼"	3HGH4	3HGH9
12"	8¼"	3HGH5	3HGJ1
14"	8¼"	3HGH6	3HGJ2
Fire/Smoke, Round*			
6"	15⅝"	3HGK6	3HGL4
8"	15⅝"	3HGK7	3HGL5
10"	15⅝"	3HGK8	3HGL6
12"	15⅝"	3HGK9	3HGL7
14"	15⅝"	3HGL1	3HGL8
16"	15⅝"	3HGL2	3HGL9
18"	15⅝"	3HGL3	3HGN1

Smoke—Factory-installed actuator forces damper blades to close in emergency smoke control situations.

Fire/Smoke—Designed for closure in emergency fire and smoke situations. Factory-installed actuators are prewired to a single junction box.
- Fire-resistance rating: 1½ hr.

Nom. Duct W	Nom. Duct H	24VAC Item No.		120VAC Item No.		RECOMMENDED RETAINING ANGLE Item No.
Smoke, Square						
8"	8"	3HGG1	**	3HGG6	**	2TGG5
10"	10"	3HGG2	**	3HGG7	**	2TGG7
16"	16"	3HGG3	**	3HGG8	**	2TGH7
18"	18"	3HGG4	**	3HGG9	**	2TGH8
24"	24"	3HGG5	**	3HGH1	**	2TGJ1
Fire/Smoke, Square						
8"	8"	3HGJ3	**	3HGJ9	**	2TGG5
10"	10"	3HGJ4	**	3HGK1	**	2TGG7
12"	12"	3HGJ5	**	3HGK2	**	2TGH2
16"	16"	3HGJ6	**	3HGK3	**	2TGH7
18"	18"	3HGJ7	**	3HGK4	**	2TGH8
24"	24"	3HGJ8	**	3HGK5	**	2TGJ1

** Retaining plate included for installation. **AMCA certified.*



Dayton

Insulated Access Doors

- 1" fiberglass insulation
- Rated up to 4" wg
- NFPA 80 requires access to fire dampers

Door H	Door W	Rough Opening H	Rough Opening W	HINGED SINGLE CAM LOCK Item No.	DOUBLE CAM LOCK Item No.
6"	6"	5½"	5½"	2TFX2	5EFT0
8"	8"	7½"	7½"	2TFX3	5EFT1
10"	10"	9½"	9½"	2TFX4	5EFT2
12"	12"	11½"	11½"	2TFX5	5EFT3
14"	14"	13½"	13½"	2TFX6	5EFT4

Scan. Order. Done.
Details on page A1.

Flexible Duct



Insulated

- Rated positive pressure: 10" WC per UL 181
- Velocity: 5,000 fpm
- Standard lengths: 25 ft.
- Flame spread/smoke developed: < 25 / < 50
- Rated for indoor use

Recommended operating press.: ¾" WC neg., all dia.; 6" WC pos., all dia. except 4" WC pos. for 14" to 18" dia. Temp. range: uninsulated duct -20° to 180°F; insulated duct -20° to 140°F @ max. press. and -20° to 180°F @ 2" pos. WC max.

Code Compliance—UL 181, NFPA 90A and 90B, ICC, HUD, Cities of Chicago, New York, San Francisco, and County of Dade (Fla.).

Note: Check with the local code body having jurisdiction in your area to determine applicable codes.

UV Exposure—Flexible duct is for indoor use only and should not be installed in direct or indirect sunlight. Installations where sunlight enters through turbine vents, skylights, canopy windows, etc., should be avoided.

Insulated—Feature double-ply vapor barrier with tridirectional reinforcements. All-purpose ducts are gray polyester. Premium ducts are metallized polyester.

Note: R-Values are in accordance with ADC Flexible Duct Performance and Installation Standards (2003) using ASTM C-518 at installed wall thickness on flat insulation only.

Uninsulated—Class 1 air connector is a triple lamination of metallized polyester, aluminum foil, and polyester film, encapsulating a steel wire helix.

UPC No.	Flex. Duct Inside Dia.	Flex. Duct Wall Thickness	Vapor Transmission	Mfr. Model	Item No.
All Purpose Insulated, R-Value = 4.2 / Class 1					
70	4"	1¼"	0.60	17002504	**3F327**
70	6"	1¼"	0.60	17002506	**3F328**
70	8"	1¼"	0.60	17002508	**3F329**
70	10"	1¼"	0.60	17002510	**3F330**
70	12"	1¼"	0.60	17002512	**3F331**
70	14"	1¼"	0.60	17002514	**5E279**
70	16"	1¼"	0.60	17002516	**5E280**
All-Purpose Insulated, R-Value = 6.0					
76	4"	2"	0.60	17602504	**5E282**
76	6"	2"	0.60	17602506	**5E283**
76	8"	2"	0.60	17602508	**5E284**
76	10"	2"	0.60	17602510	**5E285**
76	12"	2"	0.60	17602512	**5E286**
76	14"	2"	0.60	17602514	**5E287**
76	18"	2"	0.60	17602518	**5E289**
All-Purpose Insulated, R-Value = 8.0					
78	4"	2½"	0.60	17802504	**4TVN6**
78	6"	2½"	0.60	17802506	**4TVN7**
78	8"	2½"	0.60	17802508	**4TVN8**
78	10"	2½"	0.60	17802510	**4TVN9**
78	12"	2½"	0.60	17802512	**4TVP1**
78	14"	2½"	0.60	17802514	**4TVP2**
78	16"	2½"	0.60	17802516	**4TVP3**
78	18"	2½"	0.60	17802518	**4TVP5**
Premium Insulated, R-Value = 4.2					
30	4"	1¼"	0.05	13002504	**3F322**
30	6"	1¼"	0.05	13002506	**3F323**
30	8"	1¼"	0.05	13002508	**3F324**
30	10"	1¼"	0.05	13002510	**3F325**
30	12"	1¼"	0.05	13002512	**3F326**
30	14"	1¼"	0.05	13002514	**5E268**
Premium Insulated, R-Value = 6.0					
36	4"	2"	0.05	13602504	**5E271**
36	6"	2"	0.05	13602506	**5E272**
36	8"	2"	0.05	13602508	**5E273**
36	10"	2"	0.05	13602510	**5E274**
36	12"	2"	0.05	13602512	**5E275**
Premium Insulated, R-Value = 8.0					
31	4"	2½"	0.05	13102504	**4PDN5**
31	6"	2½"	0.05	13102506	**4TVL9**
31	8"	2½"	0.05	13102508	**4TVN1**
31	10"	2½"	0.05	13102510	**4TVN2**
31	12"	2½"	0.05	13102512	**4TVN3**
31	14"	2½"	0.05	13102514	**4TVN4**
31	16"	2½"	0.05	13102516	**4TVN5**
31	18"	2½"	0.05	13102518	**4TVP4**
Uninsulated					
50	3"	⅛"	0.05	05102503	**3F332**
50	4"	⅛"	0.05	05102504	**3F333**
50	6"	⅛"	0.05	05102506	**3F334**
50	8"	⅛"	0.05	05102508	**3F335**
50	10"	⅛"	0.05	05102510	**3F336**
50	12"	⅛"	0.05	05102512	**5E290**
50	14"	⅛"	0.05	05102514	**5E291**
50	16"	⅛"	0.05	05102516	**5E292**
50	18"	⅛"	0.05	05102518	**5E293**

Diffusers, Dampers, and Collars

GRAINGER APPROVED

4 WAY Adjustable Diffuser

Diffusers—Round diffusers, with overlapping step-down rings, are compatible with butterfly dampers. Square diffusers provide high-volume air diffusion; multilouver models control air volume. Perforated diffusers have a clean, unbroken-plane look and reduce noise in low-volume air applications.

Diffusers, Adjustable Filtered—Separate directional diffusers on 4 sides, to provide air flow control. Compatible with T-bar ceilings. Connect duct to back pan and snap closed. Back pan and electrostatic filter included.

Butterfly Dampers—Adjust through center hole in diffuser; removable handle included.


No. 4JRK8


No. 4MJU8


No. 4MJW6


No. 4MJV3


No. 4JRL7

Description	Diffuser Duct Size	Brand	Item No.
Diffusers, White Finish			
Round, Ceiling, Step-Down, For Use with 4JRL4	6"	GA	**4JRK8**
Round, Ceiling, Step-Down, For Use with 4JRL5	8"	GA	**4JRK9**
Round, Ceiling, Step-Down, For Use with 4JRL6	10"	GA	**4JRL1**
Square, Ceiling, 3-Way Multilouver	6"	GA	**4MJJ2**
	8"	GA	**4MJJ3**
	10"	GA	**4MJJ4**
Square, Ceiling, 4-Way Multilouver	6"	GA	**4MJJ5**
	8"	GA	**4MJJ6**
	10"	GA	**4MJJ7**
Square, Perforated, Supply, Lay-In T-Bar	8"	GA	**4MJU8**
	10"	GA	**4MJU9**
Square, Perforated, Supply, Lay-In T-Bar with Deflector Control, For Use with 4JRN2, 4JRN3, 4JRN4 or 4JRN5	6 to 14"	GA	**4JRL2**
Square, Perforated, Return, Lay-In T-Bar, Duct Size 8"	—	GA	**4MJV1**
Square, Perforated, Return, Lay-In T-Bar, Duct Size 6 x 14"	—	GA	**4MJU7**
Square, Perforated, Return, Lay-In T-Bar with Filter Frame and Insulation, For Use with 4JRN2, 4JRN3, 4JRN4 or 4JRN5	—	GA	**4MJV6**
, , Lay-In T-Bar, Egg Crate, Filter Frame	—	GA	**4MJW6**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL7	6"	GA	**4MJU2**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL8	8"	GA	**4MJU3**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL9	10"	GA	**4MJU4**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRN1	12"	GA	**4MJU5**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL7	6"	GA	**4MJV2**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL8	8"	GA	**4MJV3**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL9	10"	GA	**4MJV4**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRN1	12"	GA	**4MJV5**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Insulation, For Use with 4JRN2, 4JRN3, 4JRN4, 4JRN5, 4JRL7, 4JRL8, 4JRL9, 4JRN1	6 to 12"	GA	**4JRL3**
Diffusers, 4-Way Adjustable Filtered, White Powder Coated Epoxy			
Square, Ceiling, with Filter	6"	4 Way Diffuser	**36N451**
	8"	4 Way Diffuser	**36N452**
	10"	4 Way Diffuser	**36N453**
	12"	4 Way Diffuser	**36N454**
	14"	4 Way Diffuser	**36N455**
	16"	4 Way Diffuser	**36N456**
Replacement Filter, (2) Sets of 4 Filters, For Use with 36N451, 36N452, 36N453, 36N454, 36N455, 36N456		4 Way Diffuser	**36N457**
Replacement Filter, (10) Sets of 4 Filters, For Use with 36N451, 36N452, 36N453, 36N454, 36N455, 36N456		4 Way Diffuser	**36N458**
Butterfly Dampers, Brown Finish			
Round, Ceiling, For Use with 4JRK8	6"	GA	**4JRL4**
Round, Ceiling, For Use with 4JRK9	8"	GA	**4JRL5**
Round, Ceiling, For Use with 4JRL1	10"	GA	**4JRL6**
Round, Snap-on, For Use with 4JRN2	6"	GA	**4JRL7**
Round, Snap-on, For Use with 4JRN3	8"	GA	**4JRL8**
Round, Snap-on, For Use with 4JRN4	10"	GA	**4JRL9**
Round, Snap-on, For Use with 4JRN5	12"	GA	**4JRN1**
Collars, Galvanized Steel			
Round, Snap On Collar, For Use with 4JRL7	6"	GA	**4JRN2**
Round, Snap On Collar, For Use with 4JRL8	8"	GA	**4JRN3**
Round, Snap On Collar, For Use with 4JRL9	10"	GA	**4JRN4**
Round, Snap On Collar, For Use with 4JRN1	12"	GA	**4JRN5**


No. 4MJP9

Return Air Grilles

GRAINGER APPROVED

Surface treatments are dual electrocoated/powder-coated for excellent corrosion resistance. All-steel construction; white finish. Filter Grilles have hinged face and accommodate standard 1" filters, sold separately on page 3047.

Note: Actual wall opening should be ⅜" larger than max. duct size.

Max. Duct Height (in.)	Max. Duct Width (in.)	Overall H (in.)	Overall W (in.)	½" Bar Spacing Item No.	⅛" Bar Spacing Item No.
Return Air Grille					
6	6	7.75	7.75	**4MJN2**	—
	10	7.75	11.75	**4JRR6**	**4MJP5**
	12	7.75	13.75	**4JRR7**	**4MJP7**
	14	7.75	15.75	—	**4MJP9**
	24	7.75	25.75	**4MJP1**	**4MJR6**
8	8	9.75	9.75	**4MJN3**	**4MJP4**
	12	9.75	13.75	**4MJN5**	—
	14	9.75	15.75	—	**4MJR1**
	16	9.75	17.75	—	**4MJR3**
	24	9.75	25.75	—	**4MJR7**
	30	9.75	31.75	**4MJP3**	**4MJR9**
10	10	11.75	11.75	**4MJN4**	**4MJP6**
	14	11.75	15.75	**4MJN7**	—
12	12	13.75	13.75	**4JRR8**	**4MJP8**
14	14	15.75	15.75	**4JRT1**	**4MJR2**
16	16	17.75	17.75	**4MJN9**	**4MJR4**
20	14	21.75	15.75	**4MJN8**	—
	20	21.75	21.75	**4JRT2**	**4MJR5**
24	24	25.75	25.75	**4MJP2**	—
Return Air Baseboard Grille					
6	14	7.75	15.75	—	**4MJW2**
8	14	9¾	15¾	—	**4MJW3**
	30	9¾	31¾	—	**4MJW5**
Filtered Return Air Grille					
12	12	14.62	14.62	**4MJT1**	—
	24	14.62	26.62	**4JRT9**	—
14	14	16.62	16.62	**4MJT2**	—
	20	16.62	22.62	**4MJT3**	—
	24	16.62	26.62	**4MJT7**	—
	30	16.62	32.62	**4MJT9**	—
20	14	22.62	16.62	**4JRT5**	—
	16	22.62	18.62	**4JRT6**	—
	20	22.62	22.62	**4JRT7**	—
	25	27.62	22.62	**4JRT8**	—
	25	22.62	27.62	**4JRU1**	—
	30	22.62	32.62	**4MJU1**	—
24	24	26.62	26.62	**4MJT8**	—
25	14	27.62	16.62	**4MJT4**	—
	16	27.62	18.62	**4MJT5**	—
30	20	32.62	22.62	**4MJT6**	—

High-Temperature Sidewall Power Venters

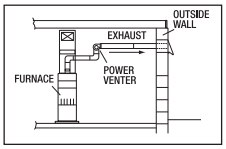
115V. Mechanically vent Category 1 heaters through a wall, eliminating the need for a traditional chimney. Include UC1 heater interlock control and fan proving switch. Interlock with any 24/120VAC burner circuit. Feature adjustable pre/post purge, LED status indicators, and fault code memory. Vent hood No. 4C845 is recommended for power venters Nos. 4KA72 and 4KA73.

Ideal for sidewall vent furnaces, boilers, water heaters, pool heaters, and unit heaters. Use for electric to gas conversions, heating equipment upgrades, new construction, and replacing chimneys.

Vent Pipe Dia. (in.)	BTU/Hr. Input (000's)	Max. Pipe Length at Stack Temp. 300°F	400°F	500°F	Amps	H (in.)	W (in.)	D (in.)	Inlet and Outlet Dia. (in.)	Mfr. Model	Item No.
4	25-100	100	100	100	1.26	7⅞	10¼	7	4	HSJ	**4KA72**
4	150	100	60	27	1.26	7⅞	11	7	4	HS1	**4KA73**
4	200	87	57	35							
6	150-200	100	100	67							
6	250	100	92	—							
6	300-400	100	100	100	1.51	9¼	11½	8½	6	HS2	**4KA74**
6	450	100	100	100							
8	500	100	72	—							
8	350-450	100	100	100							
8	500	100	100	—							
8	600	100	100	—	2.60	12½	13	12	8	HS3	**4KA75**
8	700	100	100	—							
10	500	100	100	—							
10	600	100	100	—							
10	700	21	100	—							

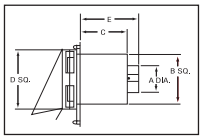
TJERNLUND





TJERNLUND

High-Temperature Vent Hoods



Designed to efficiently terminate horizontal vent runs handling flue gases from furnaces, unit heaters, and boilers. Made of 18-ga. corrosion-resistant aluminum alloy. No. 4C845 has built-in heat shield which provides clearance from combustible material contained in walls. Can be used with sidewall power venters, this page.

A, Dia. (in.)	B, Sq. (in.)	C (in.)	D, Sq. (in.)	E (in.)	Mfr. Model	Item No.
4	7½	7⅛	9	8⅞	VH1-4	**4C845**
6	8½	7⅞	12	9½	VH1-6	**6KXZ2**
8	16	7¾	18⅜	20	VH1-8	**6KXZ3**
10	16	7¾	18⅜	20	VH!-10	**6KXZ4**

Water Heater Vent Packages

TJERNLUND



Used to vent millivolt gas water heaters up to 75 ft. away from a sidewall. Upgrade water heaters from electric to gas in renovations or new construction where no chimney exists. Wired with 25-ft. control cable. Linear limit spill switch connects to thermocouple junction adapter to lock out heater if draft is insufficient. Inlet and outlet are 3" on No. 5C083, 4" on No. 2FRU6. Post-purge timer keeps unit operating at end of burner cycle. Gas diaphragm switch with aluminum tube connection turns unit on and off with gas flow to water heater. Heavy-duty vent hood and 6-ft. power cord. CSA Certified.

Description	Mfr. Model	Item No.
Compatible w/Gas Waters Heater from 60,000 to 120,000 Btu; 115V, 1.26-Amp Motor	VP-3F	**2FRU6**
Compatible w/Gas Water Heaters Up to 60,000 Btu; 115V, 1-Amp Motor	VP-2F	**5C083**

Rooftop Inducers

TJERNLUND

- Powder-coated clamshell housing allows easy installation, inspection, and service
- Stainless steel blower wheel

Ideal solution for inaccessible and short-length vent connectors and chimneys, and for noise-sensitive locations. Optional rooftop stand supports weight of the inducer for metal chimney installations. Rooftop mounting maintains negative pressure throughout the entire vent system. ETL Listed to UL 378, UL 705, and CAN/CSA B255-M81.

Gas/Oil Applications, Nos. 5PWD8 and 5PWD9—Use to exhaust clothes dryer vents and exhaust chases serving multiple floors/sources. Pair with Controller No. 35UP43 for demand-based automatic speed control (sold separately on Grainger.com®). Also rated for use with non-condensing oil and gas heating equipment when installed with either No. 4KA76 (sold separately on Grainger.com®) or Interlock Controls No. 5PWE2 (sold separately, this page).

Solid Fuel Applications, Nos. 5PWE0 and 5PWE1—Use to increase fireplace draft to help eliminate fire starting and smoky backup problems. Included mounting kit attaches to both tile-lined and metal flues. Also includes wall-mount speed control.

Inlet and Outlet Dia. (in.)	Voltage	Amps	HP	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Gas/Oil Applications, Incl. Fan Proving Switch								
8	120	1.2	1/12	18	16	16	RT750	**5PWD8**
12	120	5.8	½	24	18.5	18.5	RT1500	**5PWD9**
Solid Fuel Applications, Incl. Wall-Mount Speed Control								
8	120	1.2	1/12	18	16	16	RT750H	**5PWE0**
12	120	5.8	½	24	18.5	18.5	RT1500H	**5PWE1**
Accessories								
Universal Control Board, For Use With 5PWD8 and 5PWD9							UCRT	**5PWE2**
Rooftop Stand, For Use With 5PWD8 and 5PWE0							RTS8	**5PWE3**
Rooftop Stand, For Use With 5PWD9 and 5PWE1							RTS12	**5PWE4**


Inducer


Universal Control Board


Rooftop Stand

Selection Guide

Item No.	Min. Chimney Inside Dia.*	BTU/Hr. Input, Gas with Draft Hood/Diverter	BTU/Hr. Input, Gas/Oil with Barometric Control	Max. Equivalent** Vent Length (ft.) @ 400°F
Gas/Oil Applications				
5PWD8	8"	400,000-700,000	500,000-900,000	100
		700,000-900,000	900,000-1,200,000	50
	10"	700,000-1,000,000	900,000-1,200,000	100
		1,000,000-1,200,000	1,200,000-1,500,000	50
5PWD9	12"	1,000,000-2,000,000	1,200,000-2,700,000	100
		2,000,000-2,400,000	2,700,000-3,200,000	50
	14"	2,000,000-2,500,000	2,700,000-3,500,000	100
		2,500,000-2,700,000	3,500,000-3,700,000	50

**Select inducer based on the BTU/hr. input of appliance rather than diameter of appliance vent outlet or chimney. **To determine equivalent ft., add the total length of straight vent pipe plus 10 ft. for each 90° elbow and 5 ft. for each 45° elbow.*

Item No.	Max. Face Area of Fireplace†
Solid Fuel Fireplaces	
5PWE0	14 sq. ft.
5PWE1	28 sq. ft.

† Determine vertical and horizontal face opening of hearth in sq. ft. (If open on sides or back, total all openings.)

TJERNLUND

In-Line Centrifugal Fan Duct Booster®

- Max. operating air temp.: 200°F; not for use with combustion exhaust
- Motor shaft should remain horizontal to the floor; mount on bottom of horizontal or side of vertical duct

Booster fits in round, square, or flat ducts as shallow as 3¼" deep. One 4" x 7" cutout is required. Unit attaches to ductwork with 4 sheet metal screws. May be actuated by No. 5C968 pressure switch. Steel housing and wheel. 1/70 HP, 1550 rpm, 115V, 60 Hz permanently lubricated motor is positioned out of the air stream. UL Listed.

Note: cfm rating is for 8" dia. pipe. Air flow will decrease slightly with smaller pipe.

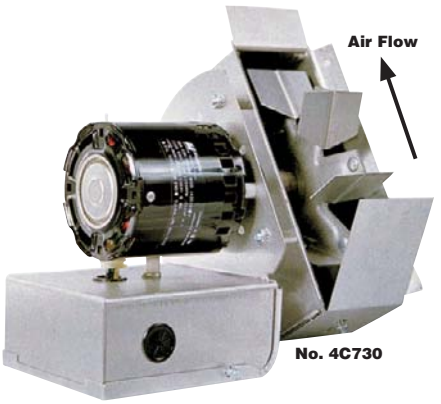
CFM @ 0.000" SP	Max. Amps	Mfr. Model	Item No.
275	0.51	DB-2	**4C724**

Air Flow



In-Line Draft Inducers

TJERNLUND



Increase draft for gas- and oil-fired heating equipment. Variable draft control. Aluminized steel housing and wheel. 115V, 60 Hz. Use for long, horizontal vent connectors, undersized chimneys, and structures with a slight negative pressure. Fastening band included, except bandless screw attachment on Nos. 4C730 and 4C731.

Note: The performance table shows typical capacities when inducer is mounted on pipe sizes shown. Heating capacities shown are for 1000 Btu per cu. ft. of natural gas and for 139,000 Btu per gal. of #2 fuel oil.

Item No.	HP	H (in.)	W (in.)	D (in.)	Cut Out Req.
4C730	1/70	7 5/8	9	5 1/8	2 5/8 x 7 1/8
4C731	1/20	9 1/8	9 1/2	7	3 1/8 x 8 5/8
4C732	1/4	14 1/2	13 1/2	8 3/4	4 x 12 3/4
4C733	1/4	17	14 3/4	10	4 1/4 x 14 3/4

INTERLOCK CONTROLS

To comply with national mechanical codes, draft inducer must be interlocked with heater it serves.

Fan Proving Switch—Monitors pressure within the inducer housing. Required with Nos. 4C730 and 4C731 for CSA certification.

Universal Interlock Control—Provides heater interlock with any 24/120VAC burner circuit. Features adjustable pre/post purge, LED status indicators, and fault code memory.

Vent Pipe Dia. (in.)	Gas Firing with Draft Hood 100% Dilution Heater Btu Input @ 270°F	Gas Firing with Bar Draft Control 25% Dilution Heater Btu Input @ 390°F	Oil Firing with Bar Draft Control 15% Dilution Heater Btu Input @ 530°F	Mfr. Model	Item No.
In-line Draft Inducers					
3	69,000	72,000	58,000	DJ-3	**4C730**
4	105,000	109,000	92,000		
5	111,000	104,000	74,000		
6	100,000	34,000	25,000		
5	270,000	330,000	295,000	D-3	**4C731**
6	356,000	377,000	300,000		
7	360,000	330,000	230,000		
8	320,000	222,000	123,000		
8	900,000	1,200,000	1,100,000	I	**4C732**
9	1,110,000	1,330,000	1,100,000		
10	1,250,000	1,260,000	840,000		
12	1,030,000	710,000	400,000		
9	1,460,000	1,970,000	1,700,000	IL	**4C733**
10	2,080,000	2,460,000	1,900,000		
12	1,920,000	2,230,000	1,500,000		
14	1,840,000	1,470,000	825,000		
16	900,000	650,000	350,000		
18	650,000	440,000	200,000		
Interlock Controls					
Fan Proving Switch				PS1505	**4C725**
Universal Interlock Control				UC1	**4KA76**





OEM Replacement Draft Inducers

- 115V (Nos. 46E378, 40N237, and 5JLR1 are 230V; No. 33NT41 is 120V; Nos. 29AT91, 29AT92, 29AT94, 35Z758 and 41H449 are 208/230V; Nos. 33NT44 and 33NT47 are 230V)

Direct replacement for gas furnaces.

FASCO AC MOTORS & BLOWERS

Packard

WARNING: Use as direct OEM replacement only. Any other use constitutes a misapplication, which voids the warranty and may create unsafe conditions.

Replaces	Mfr. Model	Item No.
Fasco		
Amana 11009001, Fasco 70219064, Alltemp (Rotom) R7-RFB129,70219924	A129	**41H443**
Armstrong 40425-003…40425-002..Fasco 702110046, 702110325,702111062…Alltemp (Rotom) FB-RFB425	A155	**33NT49**
Evcon/York 2940-391..Fasco70215478	A088	**41H441**
Goodman B1859000….Fasco 70216804	A079	**41H440**
Goodman B1859005….Fasco70022307,Alltemp (Rotom)FB-RFB185…Fasco70023219	A157	**41H438**
Goodman B2833001..Fasco70219087,70219565,Alltemp (Rotom) FB-RFB140,70219915	A140	**41H446**
Heil Quaker 610672..Fasco 70215043, 70217102	A064	**41H439**
ICP 1010975, 1010975P..Fasco70022792, 70022633	A172	**33NT40**
ICP 1011350, Alltemp (Rotom) FB-RFB350…Fasco 70624578, 70624832	A173	**33NT37**
ICP 1011409,1164280…Fasco 702110299, 702110702	A170	**33NT36**
ICP 1011412…Fasco 70624783, 70624705, 70624274, 70624201, 70624549 ICP 1010491,1011096,1011410,1010527	A171	**33NT38**
ICP 1054268P, Fasco 70217617, 70219237	A148	**33NT47**
ICP 1708-607, 1708-607P..Fasco 70218736, 70218735.. Alltemp (Rotom) FB-RFB134..Fasco70219918	A134	**41H445**
Lennox 18L0401…Fasco 702110376	A213	**33NT48**
Lennox 45037-001…Fasco 702110602, 702111106, 702111174 (Flexible Conduit Over Leads)	A202	**33NT46**
Lennox 67K0401,67K0401P…Fasco 70219450,702110721	A163	**33NT39**
Nordyne 6212850…Fasco 70219132	A131	**41H444**
Rheem 70-21496-01, Alltemp (Rotom) FB-RFB090, Fasco 70215239,70219921	A090	**41H442**
Rheem 70-22165-81…Fasco 70621881, Alltemp (Rotom) FB-RFB142…Fasco 70624534	A142B	**41H437**
Rheem 70-23641-81, 70-23641-01…Fasco 70219137 , 70219567,702112903	A241	**33NT44**
Rheem 70-24033-01….Fasco70623861,70625177, Alltemp (Rotom) FB-RFB136…Fasco 70624537	A136	**33NT43**
Rheem 70-24157-03, 117847-00,117847-07…Fasco 70582635	A066	**33NT41**
Rheem 703020…Fasco 70215990	A086	**41H436**
Trane 21D340096P04, X38040276047..Fasco 70217986,70218925	A146	**41H448**
Trane C661452P01,X38080029010…Fasco 70217833,70218928	A150	**41H449**
Trane D330673P01, X38040305017..Alltemp (Rotom) FB-RFB143, Fasco…70218428,70218924,70219913	A143	**41H447**
Trane D330757P03, X38040313037, Alltemp (Rotom) FB-RFB130, Fasco 70623956,70624004,70624538	A130	**41H450**
York 024-25007-000, 024-25007-700,024-25057-000,024-25057-700, Alltemp (Rotom) FB-RFB137, Fasco 70622442, 70623342,70623484,70623769,70624536	A137	**33NT45**
York 024-34558-000, 17503, Fasco 702111577, 702111577S, 702111830	A225	**33NT42**

Replaces	Mfr. Model	Item No.
Packard		
Armstrong 40404-003, 117521-00	66404	**5JLR7**
Carrier HC21ZE117B, HC660-005	65569	**46E377**
Carrier HC24HE230	65230	**35Z758**
Carrier HC24HE230	65570	**46E378**
Coleman Evcon 373-19801-820, 373-19801-821	65475	**29AT90**
Emerson 3114, Goodman 119254-00, ICP 3114, 1010008, 1085571, 1085571P, 1110008, 7021-10580, 7021-10048	66254	**40N237**
Emerson 3120, Lennox R7-RFB43, J238-8171, J238-087-8171, J238-087-8165, 85L4901, 88K8401, 43K4101, 46K4101, 67M5401, 10K5101, 10K5301, 27K5201	66401	**40N238**
Goodman 5KSB46GF0001S, B4833000	48331	**5JLR6**
Goodman B1859000, Rheem 70-21496-01, 70-2496-03, 70-21496-83, 70-21504-04, 70-21504-03	82483	**5JLR3**
Goodman B1859005, J238-11128	66005	**5JLR5**
Goodman B4059000	66590	**35Z760**
ICP 1000814, ICP 1001371, ICP 1001609, ICP 1002543, ICP 1007360, ICP 1011350, ICP 1150474	66350	**35Z759**
ICP 1006168	82672	**5JLR2**
ICP 1010324, 1013833, 1010238P	66833	**14C434**
ICP 1012002, 1013388A, 1014338	66338	**14C435**
Johnson 8973C, Magic Chef HWC Series, 48HWC181, 48HWC24A	80280	**5JLR1**
Lennox 31L5501, 101202-01-01, 24W95, 1023959-01, 7002-2975	66501	**14C432**
Lennox 47H12, LB-82590CA	82590	**14C431**
Rheem 117104-01, 117847-07, 70-22838-82, 70-24157-03	66847	**5JLR4**
Rheem 70-21496-83, 70-24157-03	66781	**40N239**
Rheem 70-23563-02	82641	**29AT91**
Skymark MTR136PK	82136	**29AT92**
Trane BLW473	66787	**5JLR8**
Trane X38040253057	82057	**29AT93**
York 026-33999-001	82999	**29AT94**



In-Line Axial Fan Duct Boosters®

TJERNLUND

- 115V, 60 Hz

Designed for powered air intake and exhaust systems, or to boost air flow in hard-to-heat or -cool areas. Galvanized steel housing with built-in duct stop on the inlet and crimped edge on the outlet. Optional speed control No. 48C172 (sold separately on Grainger.com®) can be used on 6", 8", and 10" units only.

Fits Duct Dia.	CFM @ 0.000" SP	Max. Amps	Max. Inlet Temp.	Mounting Position	L	Mfr. Model	Item No.
6"	180	0.40	150°F	Horizontal or Vertical	6½"	EF-6	**5C963**
8"	325	1.1			9"	EF-8	**5C964**
10"	475	0.46			14½"	EF-10	**5C965**
12"	875	1.25			14½"	EF-12	**5C966**
14"	1200	1.7			14½"	EF-14	**5C967**
Duct Pressure Switch, Operates Between 24 and 277VAC, 15-Amp Rating						PS1503	**5C968**

AMCA Certification Information

AIR PERFORMANCE

Dayton Electric Mfg. Co., Fantech, Inc., Vosterman's Ventilation, Inc., Soler & Palau, and Berner International certify that each of their respective models displaying the AMCA Seal in the HVAC section are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

SOUND & AIR PERFORMANCE

Dayton Electric Mfg. Co. & Broan-NuTone LLC certify that each of their respective models displaying the AMCA Seal in the HVAC section are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

WATER PENETRATION & AIR PERFORMANCE

Dayton Electric Mfg. Co. certifies that the louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance and Water Penetration ratings.

Exhaust Ventilation

Determining the correct exhaust CFM is one of the most critical application calculations, as it allows the ventilation system to perform as designed.

Commercial kitchen exhaust systems, in particular—with temperatures as high as 300°F and grease-laden atmospheres—must be designed to meet restaurant and food service application requirements.

Owners and installers must be aware of the following guidelines and governing codes when designing a kitchen ventilation system:

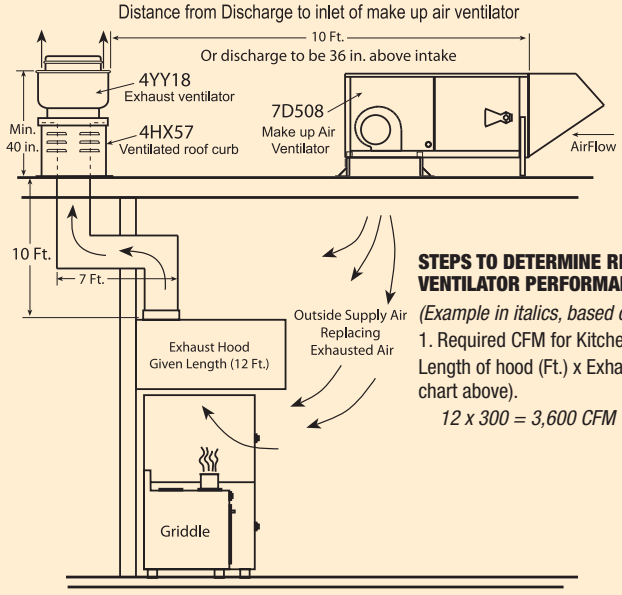
Types of Kitchen Equipment	Non-Grease Hoods	Grease Hoods			
	Gas/Electric Steamer Gas/Electric Oven Food Warmers Pasta Cooker Dishwasher	Smoker Rotisserie Pizza Oven	Combi-Ovens Gas/Electric Fryers Griddles Tilting Skillets Tilting Braising Pans Grill/Hibachi Grill Salamander	Upright Broiler Electric Char-Broiler	Gas Char-Broiler Mesquite Infrared Broiler Lava Rock Char-Broiler Wok Chain Broiler
*Exhaust Rate (Approx. CFM/ Linear Ft.)	200	250	300	400	550
Internal Resistance (Approx. Static Pressure)	0.5	0.5	0.625	0.75	1.00

For specific hood types, refer to the International Mechanical Code.

INSTALLATION

UL 762

Concerns the safety of roof- or wall-mounted power ventilators used with restaurant exhaust appliances, where heat/grease are typically encountered in the airstream.



NFPA 96

- **Discharge must be a minimum of 40" from roof deck**
- **Ductwork must be a minimum of 18" above roof deck**
- **Curb must be vented and have a grease trap and hinge kit**
- **No damper can be used in a kitchen application (unless part of the hood)**

STEPS TO DETERMINE REQUIRED EXHAUST VENTILATOR PERFORMANCE

(Example in italics, based on application drawing)

1. Required CFM for Kitchen Hood = _____

Length of hood (Ft.) x Exhaust rate (CFM/Linear Ft.) (Use chart above).

12 x 300 = 3,600 CFM

2. External Resistance (SP) = a. + b.

0.05 + 0.16 = 0.21

a. Duct Length (Ft.) = _____

Duct Length (Ft.) = 17

0.002 - 0.004 = Duct Resistance Factor (DRF), assuming air velocity is between 1000 and 1800 FPM

Duct Length x DRF = External Resistance (SP)

17 x 0.003 = 0.051 (SP)

b. Number of Elbows = _____

Number of Elbows = 2

0.080 = Resistance Factor Per Fitting, Elbow, etc.

Number of Elbows x 0.08 = Additional Duct Resistance (SP)

2 x 0.08 = 0.16 (SP)

3. Internal Resistance (SP) (Use chart above) + External Resistance (SP) = Total Resistance (SP)

0.625 (SP) + 0.21 (SP) = 0.836 (SP)

Exhaust Ventilation Performance =

3600 CFM @ 0.836 (SP)

Air Changes Recommended for Various Areas

To determine Air Volume (cfm), calculate volume of area (LxWxH) to be ventilated in cubic feet and divide by minutes per change (see table). Result will be cubic feet per minute, corresponding to fan ratings. One or more fans may be used to obtain desired cubic feet per minute.

Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change
Assembly Halls	3-10	Factories	4-10	Offices	5-12	Shops	5-10
Bakeries	1-3	Foundries	2-8	Packing Houses	3-5	Stores	5-10
Boiler Rooms	1-3	Garages	5-10	Plating Rooms	1-5	Theaters	3-8
Cafeterias	3-5	Kitchens	1-5	Printing Shops	5-10	Toilets	2-5
Churches	2-4	Laundries	1-3	Restaurants	3-10	Transformer Rooms	1-5
Clubs	5-7	Libraries	2-4	Restrooms	5-10	Warehouses	5-10
Dormitories	5-8	Locker Rooms	4-15	Sales Rooms	2-10		
Engine Rooms	2-5	Mills	5-8	Schools	5-10		

Connecting with Grainger

Website: To register, sign in at Grainger.com®.

Phone: 1-800-GRAINGER (472-4643).

Mobile App: Download at the App Store or Google Play.

Branch: See Grainger.com for your nearest branch.

After-Hours Emergency Service Call:

1-800-CALL-WWG (1-800-225-5994).
If you are a Grainger account holder* and need a product immediately, even after business hours, call us and we'll open your local branch (available in most markets and a $50 fee may apply).

*We can establish a new account for business customers at the time of the emergency call if you do not have an account with us.

Terms of Sale

SUMMARY TERMS & CONDITIONS

Terms: The term "Customer" includes business customers as well as individuals. By placing an order, Customers accept and agree to Grainger's Terms of Sale, the full text of which can be found at Grainger.com and are incorporated herein by reference. The Terms of Sale contain a provision that any disputes will be resolved on an individual basis through arbitration. Grainger reserves the right to: (i) revise the Terms of Sale as found on Grainger.com at any time; (ii) accept or reject any order; (iii) limit the quantity of items purchased per order; and (iv) limit the number of orders that can be placed per day. Grainger does not guarantee the availability of specific quantities of any product listed in this Catalog at time of order placement.
Prices: "Web Prices" displayed on Grainger.com: (i) are offered to Customers that do not have other pricing arrangements with Grainger; (ii) are subject to the Terms of Sale on Grainger.com; (iii) are available for orders placed on Grainger.com, by phone, or at Grainger branch locations; (iv) do not include freight, handling fees, taxes, and/or duties; and (v) are subject to change or correction at any time and without notice. Business Customers that have other pricing arrangements with Grainger can view their prices and the applicable prices to which discounts, if any, are applied, when logged into their Grainger.com account. Export orders may be subject to other special pricing.
Sales Tax: Customers are responsible for payment of all applicable taxes, or providing a valid sales tax exemption certificate.
Shipping Charges: Products are shipped F.O.B. shipping point with all costs imposed by the carrier related to the shipment paid by Grainger and charged to Customer. C.O.D. shipments are not permitted. Fuel surcharges and other surcharges may be applied. Title and risk of loss pass to Customer upon tender of the shipment to carrier.
Payment Terms: Grainger accepts cash, checks, money orders, Visa, MasterCard, Discover, and American Express. For business customers with established Grainger credit, payment terms are net 30 days from the date of shipment or pick-up. If payment is not received within the 30-day period, Grainger may defer or cancel all or part of any shipment or order. Anticipation and cash discounts are not allowed.
Product Returns: For Grainger's current product return policy and instructions, go to grainger.com/returns. Grainger does not take title to returned products until the item is received by Grainger at the applicable return location. Proof of purchase is required in all cases. Product returns may be denied or made subject to restocking fees and other charges by Grainger.
Product Substitution: Products and/or country of origin may be substituted and may not be identical to descriptions and/or images in this Catalog or on Grainger.com.
Other Products and Services: Orders for export and products and services not listed in this Catalog are subject to separate terms and conditions; see Grainger.com.

CATALOG PRODUCT INFORMATION

Information about the products in the Grainger catalog is provided by the manufacturer and/or supplier. Every attempt is made to publish complete and accurate data but, because changes happen continuously, the timeliness and accuracy of information cannot be guaranteed. Grainger reserves the right to revise publishing errors in its catalogs.

SATISFACTION GUARANTEE TO ALL CUSTOMERS

Customer should contact Grainger if not satisfied with a product for any reason. Grainger will promptly provide an exchange or refund if the product is returned within 30 days of invoice with proof of purchase from Grainger.

GRAINGER LIMITED WARRANTY

ALL PRODUCTS SOLD TO CUSTOMERS ARE WARRANTED BY GRAINGER ONLY FOR USE IN BUSINESS, GOVERNMENT, RESALE, OR ORIGINAL EQUIPMENT MANUFACTURE AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE (1) YEAR AFTER DATE OF INVOICE FROM GRAINGER. AT GRAINGER'S OPTION, THE EXCLUSIVE REMEDY FOR ANY PRODUCT IT DETERMINES TO BE DEFECTIVE IN WORKMANSHIP OR MATERIALS WILL BE REPAIR, REPLACEMENT OR REFUND OF THE PURCHASE PRICE.

WARRANTY DISCLAIMER & LIMITATIONS OF LIABILITY

a. WARRANTY DISCLAIMER. EXCEPT AS SET FORTH HEREIN AND WHERE PERMITTED, NO WARRANTY OR AFFIRMATION OF FACT OR DESCRIPTION, EXPRESS OR IMPLIED, IS MADE OR AUTHORIZED BY GRAINGER. GRAINGER DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. GRAINGER ALSO DISCLAIMS ANY LIABILITY FOR CLAIMS ARISING OUT OF PRODUCT MISUSE, IMPROPER PRODUCT SELECTION, IMPROPER INSTALLATION, PRODUCT MODIFICATION, MISREPAIR OR MISAPPLICATION.

b. LIMITATIONS OF LIABILITY. ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES IS EXPRESSLY DISCLAIMED TO THE EXTENT PERMISSIBLE. FOR BUSINESS CUSTOMERS, GRAINGER'S LIABILITY IN ALL EVENTS IS LIMITED TO THE PURCHASE PRICE PAID FOR THE PRODUCT THAT GIVES RISE TO ANY LIABILITY.

CERTAIN STATE LAWS DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES OR THE EXCLUSION OR LIMITATION OF CERTAIN DAMAGES. IF THESE LAWS APPLY, SOME OR ALL OF THE ABOVE DISCLAIMERS, EXCLUSIONS, OR LIMITATIONS MAY NOT APPLY AND OTHER RIGHTS MAY BE AVAILABLE.

COMPLIANCE AND PRODUCT INFORMATION

Product information and Safety Data Sheets ("SDS") are supplied by the manufacturers. GRAINGER MAKES NO WARRANTIES AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ACCURACY OF THE PRODUCT INFORMATION OR ANY SDS.
To Request an SDS: Log on to Grainger.com and click on the "View the Safety Data Sheet" (SDS) for this item, email product.compliance@Grainger.com, or write to:
Grainger, Dept. B1L57, 100 Grainger Parkway, Lake Forest, IL 60045, U.S.A.
Refrigerant Customers: In accordance with the Federal Clean Air Act, sale of Class 1 (CFC) and Class 2 (HCFC) refrigerant will be restricted to resale purchases and/or to certified professional service technicians. To purchase regulated refrigerant products, all customers must present a certification card or sign a statement of resale to complete the purchase.
Product Compliance and Suitability: Grainger does not guarantee compliance or suitability of the products it sells with any laws, codes or regulations, nor does Grainger accept responsibility for construction, installation, and/or use of a product. Customer is solely responsible for reliance on or use of any product information, and for use or application of any product.
Availability: Certain products may not be available for sale in all areas.
Energy and Water Efficiency Information:
For identification of products and related information, go to Grainger.com.

PURCHASERS OF PRODUCTS USED WITH OR FOR POTABLE WATER:
The Federal Safe Drinking Water Act and regulations in CA, LA, MD, and VT prohibit plumbing products (including, but not limited to pipes, pipe fittings, solder, flux, plumbing fitting, etc.) used to convey water for human consumption that are not "lead free," as defined by the regulations. In order to determine your particular state's standards applicable to the products you purchase for use in or for potable water applications, direct your inquiries to the appropriate regulatory agency in your state. In order to determine the federal standards applicable to the products you purchase for use in or for potable water applications, visit http://water.epa.gov/drink/info/lead/index.cfm. For identification of products impacted by these regulations, go to Grainger.com.
California Proposition 65: California Proposition 65 is a regulatory notice requirement that entitles California consumers to special warnings for any one of the over 800-listed chemicals that California regulators have deemed to expose consumers to cancer or reproductive harm if consumers are exposed to those chemicals above certain threshold levels. The required warnings are as follows:



WARNING: Certain products in this catalog can expose you to chemicals which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



WARNING: Certain products in this catalog can expose you to chemicals which are known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

If you have questions about whether any product that you are interested in ordering falls under California Proposition 65's warning requirements, please visit our website at Grainger.com with reference to that product. Similarly, if you have any questions about Proposition 65 itself, please visit www.p65warnings.ca.gov or the California regulatory agency website at www.oehha.ca.gov.

Indiana C.P.D. Reg No. TS. 19-11898

Manufacturer Advertisement

3M | E-A-R™ Hearing Protection





Hearing protection simplified.

Introducing the first earplug with a one-hand insertion NRR claim. The new patented push-to-fit earplug has a flexible-fitting stem that allows easy insertion of the foam tip into the ear canal using one or two hands.

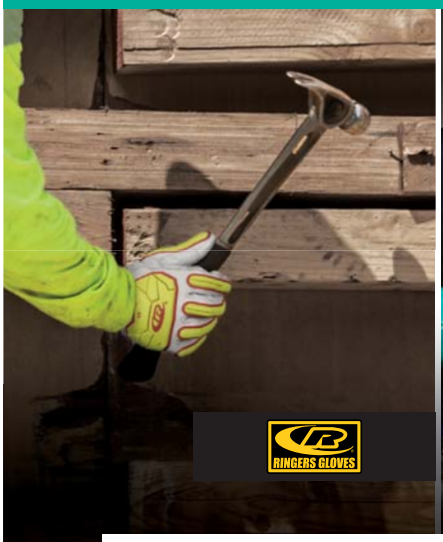
3M™ E-A-R™ Flexible Fit HA Earplug

For more information, call 1-800-GRAINGER, visit grainger.com or stop by your local branch.

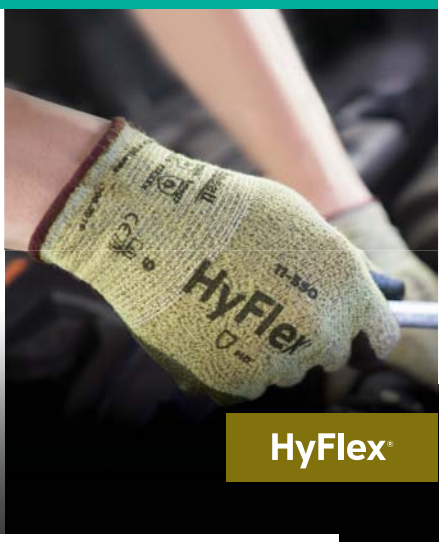
© 3M 2020. All rights reserved. 3M and E-A-R are trademarks of 3M Company. Used under license in Canada.

Manufacturer Advertisement

Ansell







Protection is at the heart of everything we do

Ansell means more than just safety; our products and services inspire confidence in people everywhere and enable businesses and workers to perform better.

For more information, call 1-800-GRAINGER, visit grainger.com or stop by your local branch.

Ansell, ® and ™ are trademarks owned by Ansell Limited or one of its affiliates. © 2020 Ansell Limited. All Rights Reserved.

Manufacturer Advertisement



See what you can't hear

Quickly find compressed air, gas and vacuum leaks

Fluke ii900 Sonic Industrial Imager

Grainger SKU: 54XZ83

FLUKE®

For more information, call 1-800-GRAINGER, visit grainger.com or stop by your local branch.

©2020 Fluke Corporation. Specifications subject to change without notice. 9/2020 6013750a-en

Manufacturer Advertisement



INDUSTRIAL • RETAIL • HOSPITALITY • OFFICE

YOUR TRUSTED PARTNER FOR ALL YOUR LIGHTING NEEDS

Ask for Current lamps and fixtures today.

GE current
a Daintree company

For more information, call 1-800-GRAINGER,
visit grainger.com or stop by your local branch.

Manufacturer Advertisement

Better Hand Cleaning

Help create a safer, more productive workplace



Workers should always wash hands when they are visibly soiled and after removing any PPE.*

*Occupational Safety and Health Administration. (1970). Guidance on Preparing Workplaces for COVID-19 (3990-03 2020).

ARE YOU HYGIENE READY?
Scan QR Code to learn more.

TOUCHLESS HYGIENE
Innovative, motion-activated sensors help improve hand hygiene and help prevent cross contamination.

HIGH CAPACITY
Large capacity towel and skincare systems help ensure availability even with increased handwashing frequencys.

EASY TO MAINTAIN
Help improve custodial efficiency with clear maintenance indicators, easily adjustable settings, simple refills and replaceable parts.

For more information, call **1-800-GRAINGER**,
visit **GRAINGER.COM** or stop by your local branch.

enMotion® dispensers are only available via a lease agreement with authorized distributors.

©2020 GP PRO. All rights reserved. Unless otherwise noted, all trademarks are owned by or licensed to Georgia-Pacific Consumer Products. 20_292846

GP PRO
Georgia-Pacific

StanleyBlack&Decker

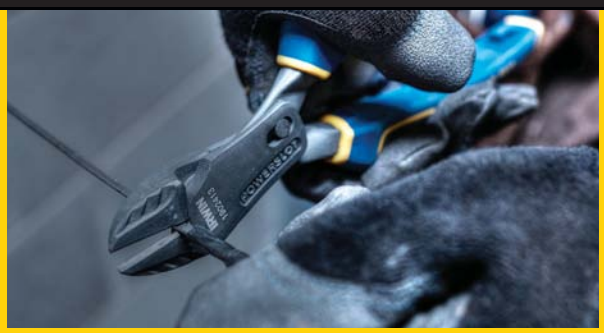
UNMATCHED FAMILY OF BRANDS





MANUFACTURING | GOVERNMENT | HEALTHCARE | COMMERCIAL









CONTACT STANLEY BLACK AND DECKER FOR SAFETY TRAININGS,
SITE ASSESSMENTS, RISK ASSESSMENTS, AND STANDARDIZATION PROGRAMS

DEWALT® IRWIN® LENOX® PROTO® CRAFTSMAN®

For more information, call 1-800-GRAINGER, visit grainger.com or stop by your local branch.

A

ABRASIVE
Bands 2381
Belts 2364-2365
Bore Polishers 2381
Cleaners 910, 1481, 1513, 1549
Cones 2391-2392
Diamond Blades 719-721
Flap Brushes 724
Holders 911, 2366-2367
Mandrels 2371, 2381
Nylon Brushes 2398
Plugs 2391
Rubbing Bricks 892, 2393
Sharpening Stones 813, 2393
Sheets 911, 2366, 2368
Sponges 2367, 2369
Test Kits 2381
Wheel Adapters 2374, 2376, 2380-2381, 2385, 2389, 2399-2400
Wire Brushes 862-863, 922, 1545, 2394-2398, 2400, 2424, 2618, 3095

ABRASIVE BLASTERS 2402-2404

ABRASIVE BLASTING
Baskets/Trays 2402
Guns & Nozzles 2402-2404
Hoses 2402, 2608
Media 2404
Protective Gear 1771-1772
Strainers 2402
Wheel Rollers 2402

ABRASIVE DISC
Backup Pads 725, 2374, 2376
Mandrels 2374, 2382
Pad Accessories 2374, 2376

ABRASIVE DISCS,
Angle Grinder 2371-2373, 2377-2379, 2382
Deburring 2370-2379, 2382
Fiber 2371-2376, 2382
Finishing 911, 1583, 2370-2379, 2382
Flap 2377-2379, 2395
Grinding 2370-2373, 2377-2379, 2382
High-Strength 2370
Hook-and-Loop 911, 2370, 2373, 2382
Locking 2371-2373, 2382
PSA (Pressure-Sensitive Adhesive) . . . 911, 2370
Surface Conditioning 911, 1583, 2370-2379, 2382
Vacuum Hole 2370

ABRASIVE PADS,
Hand 911, 1548, 2367, 2369
Surface Conditioning 911, 1548, 1586, 2367, 2369

ABRASIVE ROLLS,
Cartridge 2381
Clean and Finish 2367-2369
Cut and Polish 2367
Disc 911, 2370
Plumber's 2368
Shop 911, 2367-2368
Spiral 2381
Vacuum Hole Disc 2370

ABRASIVE WHEELS,
Angle Grinder 737, 2382-2388, 2391, 2394
Bench Grinder 2388, 2391
Brush 2382
CBN 2254
Cup 2391
Cut-Off 719-721, 724, 729, 734, 737, 2383-2388
Deburring 737, 862, 2380-2382, 2388-2389, 2394-2398
Depressed Center 2382, 2384-2388
Diamond 737, 2254
Finishing 862, 2380-2382, 2389, 2391, 2395-2396, 2398
Flap 724, 2380-2382
Grinding 719-721, 724, 737, 2254, 2380-2388, 2391, 2396
Mounted Point 2392
Pedestal 2388, 2391, 2395
Polishing 724, 2389
Raised Hub 2382, 2384-2388
Straight-Shaft Grinder 734, 737, 862, 2383-2385, 2388, 2396, 2398
Surface Conditioning . . . 2380-2382, 2389, 2391
Toolroom 2383
Wire 862, 2394-2398

ABS PLASTIC 2211

ABSORBENTS,
Desiccant 1413, 2463, 2588-2589
Loose 1836, 1845
Spill Control . . . 965, 1527-1528, 1836, 1845-1856
AC to DC Converters 211-212, 560, 1977

ACCELERATORS,
Adhesive 2223, 2225

ACCESS
Doors 2002, 3101
Valves 3006, 3010, 3015, 3094

ACCESS CONTROL
Cabinets 1271
Push Buttons 1978

ACCESS CONTROLS
. . . . . 1971-1980, 2033, 2035

ACCESS POINTS,
Wireless Networking 666

ACCUMULATORS,
Pump 2494

ACETAL PLASTIC 2214

ACETAMINOPHEN 1830-1831, 1834

ACETONE BOTTLES 654

ACETYLENE
Regulators 2429-2431, 2433, 2436-2437
Torch Parts 2430-2431, 2433-2434, 2436-2437

ACID
Brushes 892, 1545, 1547
Cabinets 1871
Neutralizers 1854, 3012
Sprayers 1002
Test Kits 2702

ACID,
Battery 2621

ACME TAPS 2267

ACOUSTICAL
Ceiling Fixture Hangers 317-318
Duct Liners 2834
Foam 1889
Panels 1889, 2763
Screens 1889
Sealants 1884
Wall Blankets 1889, 2834

ACRYLIC
Paints 906, 1595, 1599-1600, 1603-1604, 1606, 1608-1609, 1612, 1630
Primers 906, 1595, 1599-1600

ACRYLIC,
Sheet 440, 2211

ACTIVATORS,
Adhesive 2223, 2225
Cyanoacrylate 2223
Floor Coating & Paint 1602-1604, 1634

ACTUATORS,
Damper 3041, 3043-3045, 3100-3101
Direct-Coupled 3043-3045, 3100
Emergency Off 167
Floating 3044-3045
Hydraulic 2474
Hydronic Radiator 3037
Interlock Switch 276
Lever 2547-2548
Linear Motion 146-147
Pneumatic 3041, 3043
Proportional 3044-3045
Roller Lever 2547-2548
Rotary 2474, 3041
Safety Switch 276
Spring-Return 3043-3045
Valve 2547-2548, 3037, 3041, 3043-3045
VAV 3044-3045, 3100

ADA-COMPLIANT
Aquatic Lifts 1481
Dispensers 1496-1499, 1501, 1514, 2736
Door Accessories 1978, 1990-1995, 2002, 2762
Drinking Fountains 2718-2720, 2731
Exit Devices 1972, 1994-1996, 2003
Eyewash Stations 1840-1841
Faucets 2733-2743, 2760
Flushometers 2751-2753, 2760
Garbage Cans 1552-1555
Grab Bars 2759-2761
Hand Dryers 1493
Hospitality Kits 2036
Locksets 1973-1974, 1980-1988
Picnic Tables 1483
Showers 1842, 1844, 2745-2746
Sinks 2725-2728, 2731, 2737-2738, 2743, 2760
Telephones 2036
Toilet Seats 2758
Toilets 2755-2756, 2760
Urinals 2759-2760
Warning Pads 1904, 2036

ADAPTER
Heads, Filter 2671, 2704
Kits, Drill Chuck 729
Kits, Speed Reducer 91

ADAPTER PLATES,
Receptacle 309, 312, 331, 340

ADAPTERS,
2-Way Radio 2027-2028, 2030, 2032
12-Volt Accessory Socket 361, 949
ABS Pipe 2808
Airflow 620, 3062
Anemometer 620
Arbor 710, 2380, 2385, 2399
Audio Cable 360-361
Banana and BNC 561
Blow Gun 962, 2515, 2518
BNC and F 360
BNC and RCA 360
Brass Pipe 1818, 2558, 2793, 2795
Brass Tubing . . . 2558, 2805, 2849, 2852-2853, 2855, 2859, 3015
Bronze Press Tubing 2802
Broom and Mop Handle 1534
Buffer/Polisher Pad 911
Cam and Groove 2766-2767
Carbon Steel Pipe 2780, 2804
Caster 1214
Charger 361, 3006
Chuck 703, 710, 729, 872
Circuit Board 247
Circuit Breaker Finder 564
Clamp-On Current Probe 542
Coax 360, 362-363, 561
Conduit 280, 304, 320, 430
Copper Pipe/Tubing 2796-2800, 2802, 2805, 3015
Cordless Tool 671
CPVC Pipe 2812, 2815, 2817-2818
Dehumidifier 3062
Desk Dolly 1192
Diamond Bit 716
DisplayPort 360-361
Disposer 2732
Drain Trap 2724
Drain/Waste/Vent 2724, 2798, 2808-2810, 2813
Drill Bit 713-714, 716
Drill Chuck 710
Drive 155, 699, 710, 873
Drum 1144, 2675, 2677
Duct 2997
Dust Barrier 1122
DVI 361
Engine Stand 943
Extension Cord 335, 400
Fiber-Optic 356, 358
Flap Wheel 2380-2381
Float 2629
Floor Box 312
Frequency Drive Voltage 155
Gas Detector Power 1779
Gas Vent Pipe 3096
Gauge 568, 570, 2468-2469, 2471
Grease Gun 934-935
Grinding Wheel 2374
Hard Hat/Helmet 1639
HDMI (High Definition Multimedia Interface) 360-361
Hose 722, 1013, 1565, 1572, 1575-1576, 1818, 2485-2488, 2536, 2691, 2743, 2765-2767, 2854, 3006, 3099
Hose Barb 2805, 2813
HVAC Quick Fit Duct 3098-3099
Hydrant 1818
Hydraulic Breather 2495
Hydraulic Hose 2485-2488, 2854
Impact Socket 775-777, 779-781
IR Camera to Smart Phone 605, 615
IR Thermometer Connector 537
Light Stick 1906
Lighting Fixture Socket 280, 449
Lock Frame 1974
Lubrication 934-935
MIG Gun Tip 2414
Modular FRL Pipe 2595, 2602
Modular Phone Line Tester 364-365
Motor Height 3045
Nickel-Plated Brass Push-to-Connect 2558, 2852
Nipple-Threading Chuck 872
Nozzle 2414, 2536, 2997
Nylon Electrical 335
Overload Relay DIN 163, 171
PC Wireless 536
PFA Compression Tubing 2856
Pin and Sleeve 341
Pipe-Threading Drive 873
Pitless 2656
Plasma Cutting Torch 2423
Plastic Hose 2765
Plastic Pipe 2765, 2806, 2808-2815, 2817
Plastic Tubing 2554-2555, 2856
Plug 335, 361, 400, 402, 413, 961
Plug-to-Receptacle 413
Pneumatic Thermostat 3040
Polybutylene Push-to-Connect 2554-2555
Polypropylene Pipe 2765, 2817-2818
Power Cable 2420
Public Address AC 2038
Pump 2675, 2677, 2698
PVC Barbed 2813
PVC Pipe 2806, 2809-2811, 2813-2814, 2817-2818
PVDF (Polyvinylidene Fluoride) Pipe 2817
Raceway 304-306
Ratchet 700, 703, 768-769, 771-772, 775-777
Refrigeration Wrench 3010
Relay Mounting 162, 170, 216
Respirator 1761, 1764-1765, 1770, 1772, 1775
Respirator Filter 1760-1761, 1763
Rod Hanger 2147
Rotary Hammer 710, 714
S-Video to RCA 360
Saddle Vent 1784
Scale AC 1430
Screwdriver 703
Shaft 43, 143
Shank & Shank Chuck 714, 2315
Socket 361, 699-700, 703, 768-769, 771-772, 775-777, 779-781, 802, 949
Spline Drive 710, 714
Stainless Steel Pipe 2787, 2818
Stainless Steel Tubing 2788, 2803, 2857
Steel Compression Pipe 2617

Steel Instrumentation Pipe 2780
Tachometer 567
Tank 2817-2818
Tap 2265
Taper 2311
Temporary Power Cord 413
Test Lead 561
Test Plug Pole 2822
Thermocouple 230, 537, 548, 596
Tire Valve 954
Torch 2423
Torque 762, 769
Trailer 958, 961
Transition Pipe 2814
Tripod 612
USB 361
Vacuum Cleaner 1565, 1572, 1575-1576
Ventilator & Ventilator Base 2945, 2956
VGA 360-361
Video Cable 360-361
Welding 2424
Wheel 2381
Wire Brush 2385, 2399
Wireless Radio 2028

ADDITIVES,
Air Conditioner Chemical 946, 2820, 3012-3013
Automotive Coolant 903
Automotive Fuel 896-897, 900
Engine Oil 897
Fluorescent 897, 946, 2494, 3009, 3012
Humidifier Chemical 3059, 3061
Paint 1604, 1613

ADHESIVE
Accelerators 2223, 2225
Activators 2223, 2225
Anchors 2172, 2218
Applicators . . . . . 670, 679, 685, 688, . . . 891, 2161, 2172, 2219, 2233-2236, 2238
Brush Cans 2834
Capsules 2172
Cleanup Solvents 1517, 2216, 2227, 2236
Dispensers . . . . . 670, 679, 685, 688, 2172, ... 2219, 2233-2234, 2236, 2238
Dots 1386, 1902
First Aid Tape 1830, 1833-1834
Fly Traps 1021
Guns & Injection Tools . . . . . 670, 679, 685, 688, ... 891, 1632, 2172, 2219, 2233, 2238
Injection Tools 2172
Plungers 2236
Primers 1633, 2223, 2963
Removers 1517, 1519, 2216, 2227, 2236
Sealants . . . . . 905, 1631-1633, 2172, 2222, ... 2224, 2226-2233, 2236, 2724, ... 2819-2820, 2834, 2836, 2842, 3012

ADHESIVES,
Acrylic . . . . . 905, 2172, 2217-2218, ... 2228-2229, 2232
Aerosol . . . 2216, 2223, 2226-2227, 2231, 2236
Carpenter's 2228, 2237
Carpet 891, 2216-2217, 2228
Cartridge . . . . . 905, 1020, 1632, 2172, ... 2217-2218, 2221, 2226, 2228-2232
Caulk 1884, 2228-2233, 2834
Cement 891, 1904, 2216, 2228-2229
Ceramic . . . . . 1361, 2216-2218, 2225, ... 2228-2233, 2237-2238, 2819, 2834
Circuit Board 2217-2218, 2225
Cloth 2216-2218, 2225, 2228-2229, 2238
Concrete . . . . . 891, 1597, 1631-1633, 1904, ... 2172, 2217, 2226, 2229-2233, ... 2724, 2819, 2834
Construction . . . . . 891, 905, 1361, 1622, ... 1633, 1904, 2218, 2220, 2228-2229, ... 2232, 2237, 2819, 2834
Contact 2225, 2228, 2237, 2834-2835
Cove Base 2229
Drywall 889, 1597, 1630, 2225, 2228-2229
Epoxy . . . . . 17, 905, 1632-1633, 1904, ... 2217, 2220-2221, 2230, 2233, 3012
Fast-Cure . . . . . 17, 1633, 2217-2218, ... 2220-2223, 2225, 2238, 3012
Felt 891, 2216, 2229
Fiberglass . . . . . 905, 2216-2217, 2220, ... 2228-2229, 2231-2233, 2819, 2834
Filler . . . . . 905, 1597, 1631-1633, 2172, . . . 2217-2218, 2220-2221, 2223, 2225, 2230
Firestop 1884
Foam 2216, 2218, 2225, 2229-2233, 2236
Gasket 905, 2226-2228, 2230, 2233, 2820
Gel 1020, 2217, 2225, 2228
Glass . . . . . 905, 1361, 2216-2218, 2225, ... 2228, 2230-2233
Glue 1361, 2225, 2228, 2237-2238
High-Impact 2217, 2225
Hot Melt 1397, 2238
Instant 1361, 2216-2218, 2225, 2228, 2237
Insulation 1391, 2216, 2229, 2835
Laminate Bonding 2216, 2228-2229, 2232
Leather . . . 2216-2218, 2220, 2225-2226, 2228
Low-Odor 1361, 1633, 2217, 2225, 2228
Metal . . . . . 905, 1020, 1361, 2216-2218, ... 2220-2233, 2237-2238, 2724, ... 2819-2820, 2834, 2842, 3012
Mirror 905
Nonflammable 953, 2228-2229
Packaging 2216, 2238
Panel 2228-2229, 2819, 2834
Paper 1361, 2216-2218, 2225, 2228-2229
Patch 905, 2220
Plastic . . . . . 905, 1020, 1361, 2216-2218, . . . 2220-2221, 2225-2226, 2228-2233, 2238
Polyurethane . . . . . 1904, 2216, 2223, ... 2228-2230, 2233, 2237
Pressure-Sensitive (PSA) 891, 1361, 2216, 2228
Retaining Compound 2223
Reusable 1361
Rubber . . . . . 953, 955, 1361, 2216-2217, ... 2221, 2225-2226, 2228-2229, 2233
Sealant . . . . . 905, 1631-1633, 2172, 2222, ... 2224, 2226-2233, 2236, 2724, ... 2819-2820, 2842, 3012
Silicone . . . . . 1020, 2220, 2226-2227, ... 2230-2233, 2820
Spray 905, 2216, 2223, 2225-2226, 2236
Super Glue 905, 1361, 2217, 2225, 2237
Thread Sealant . . . . . 905, 2222, 2224, ... 2819-2820, 2842, 3012
Tile 891, 2217, 2229-2230, 2232-2233
Tub/Shower Wall 2229, 2232
Urethane . . . . . 2172, 2216, 2218, ... 2220-2221, 2229
Vinyl . . . . . 2216, 2218, 2220, 2225, ... 2228-2229, 2231-2233, 2819
Vinyl Flooring 891
VOC-Compliant 2228
Wallpaper 1622, 2228
Weatherstripping 905, 1999, 2228
Wood . . . . . 891, 905, 1361, 1597, 2216-2218, ... 2225-2226, 2228-2233, ... 2237-2238, 2819, 2834

ADJUSTABLE WRENCHES
. . . . . 796-797, 839, 848, 854-855, 861, ... 863, 962, 2275, 2503, 2751

ADULT INCONTINENCE SUPPLIES 1494

AEDS (AUTOMATED EXTERNAL DEFIBRILLATORS) & ACCESSORIES
. . . . . 1838, 1920, 1925

AERATORS,
Faucet/Tub 2726, 2743, 2747-2750
Outdoor 989, 2640

AEROSOL CAN
Disposal Systems & Filters 1606, 1864
Storage Cabinets 1307, 1871
Triggers 1611

AFTERCOOLERS,
Air-Cooled 2586

AGITATORS,
Laboratory 647-648
Material 889, 891, 1141, 1605, 2689
Paint 889, 1605

AGRICULTURAL
Cylinders 2478-2479
Fan Accessories . . . . . 28-29, ... 34-35, 56, 2936-2937
Fans 2917, 2919, 2921, 2928
Poultry Netting 1010
Scales 1429
Silt Fences 1012
Soil Probes 1009

AIR
Acetylene Outfits 2431, 2436-2437
Amplifiers 2583
Balancers 620-621
Brake Accessories 961-962
Brush Kits & Brushes 1625
Cannons 2582, 2917, 2919, 2921
Chain Hoists 1055
Chucks 956, 962, 2518
Conveyors 2583
Cooling Misters 2915-2917, 2921
Dampers 3100-3102
Deodorizers & Accessories 909, 1505-1507, 1520-1521, 1524, 3061
Diffusers 3083, 3086, 3102
Doors 2969-2971
Filtration Panels 1769-1771
Fresheners & Dispensers . . . . 909, 1505-1507, ... 1521, 1524
Fuel Torches 2431, 2433-2434, 2436-2437
Fuses 2603
Gearmotors 2577
Guns & Accessories . . . . . 864, 1565, 2233, ... 2437, 2515-2518, 2582
Handlers 3091
Hockey Equipment 1479
Horns 966
Jacks 940-943
Jets, Abrasive Blast Cabinet 2402
Knives 2582
Line Brackets 2586
Mattresses 1471
Monitors & Accessories 617, 620, 624, 1771, 1776-1781
Motors & Repair Kits . . . 2577, 2664, 2666-2668
Mover Hoses 2610-2612
Movers 1783, 2583
Outlets 3102
Purifiers 719, 2363, 3059-3061, 3093
Quality Meters 543, 584, 593, 617-619
Quick Connect Washers 2531
Receivers 2570-2571
Registers/Return Grilles 3102
Regulator Assemblies 2889
Sampler/Evacuator Blowers 37-38
Sensing Switches 570, 3046, 3104
Sensor Probes 3042, 3046
Separators 2660-2661, 2908, 3037
Switch Covers 288
Switches . . . . . 263, 288, 290, 570, ... 2600, 3046, 3104
Tank Valves 2550, 2573-2575, 2603, 2894
Tanks 2570-2571
Temperature Probes 595-597, 618
Tubing 962, 2586, 2610-2612, 2615
Vents . . . . . 2463-2464, 2551, 2722, 2901, ... 2908, 3037, 3087, 3102
Volume Controls 2656
Volume/Flow Meters 543, 572, 619-621
Winches 1083

AIR CIRCULATOR
Bases 2916
Blades 2951
Brackets 2916-2917, 2920, 2925
Ceiling Mounts 2916, 2918
Filters 2989, 3051
Floor Pedestals 2916
Guards 2916
Heads 2915, 2917-2918
Misters 2915-2917
Motors 47, 49, 56-58, 61-64
Switches 2916
Wheel Kits 2916

AIR CIRCULATORS,
(See Also Blowers, Fans, and Ventilators)
Assembled 2915-2921, 2923
Ceiling-Mount 2916-2919, 2922-2923
Corrosion-Resistant 2917, 2919
Floor 2915-2918, 2920-2921, 2923-2924
Greenhouse 2919
Hazardous Location 2919
I-Beam-Mount 2915-2918
Industrial 2915-2922
Mobile 2915, 2920-2921, 2923
Outdoor 2921
Pedestal-Mount 2915-2919, 2923
Rolling 2920-2921, 2923
Safety Yellow 2917
Table-Top 2923-2924
Transformer-Cooling 2925
Wall-Mount 2915-2919, 2923
Washdown 2917, 2919, 2921

AIR CLEANER
Extractor Arms 233
Filters . . . . . 233, 2363, 2408, 2989, 3049, ... 3059-3062, 3093
Hoods 3060
Hoses 2408
Media Trays 3059
Nozzles 2408
UV Bulbs 3059, 3061

AIR CLEANERS . . . . . 719, 1505-1506, ... 2363, 2408, 3059-3061, 3093

AIR COCK VALVES,
Brass Pipe 2914

AIR COMPRESSOR
Aftercoolers 2586
Air/Oil Separators 2567
Battery Tray Kits 2561
Belts 2567
Blowers 2584-2585
Check Valves 2550, 2573-2575
Controls . . . . . 165, 220, 287-288, 290, ... 2571, 2574-2575
Filter Elements 2567, 2576, 2585
Filter Silencers 2575-2576
Filters 2567-2568, 2575-2576, 2584
Hoses 947, 2529, 2586, 2604-2606
Lubricants . . . . . 946, 2455, 2457, ... 2567-2568, 3007
Maintenance Kits 2567
Motor Starters 165, 167
Motors 36
Oil Monitors 2564
Oils 946, 2455, 2457, 2567-2568, 3007
Pressure Switches 287-288, 290, 2559
Pumps 2562, 2568-2569, 2578-2581
Relief Valves 2573-2574, 2894
Repair Kits 2580
Safety Valves 2573-2574
Start-Up Kits 2567-2568
Tanks 2570-2571
Throttle Controls 2574-2575
Vacuum Pump Combinations 2578-2580

AIR COMPRESSORS,
Battery-Powered 955
Climate Control 2562, 2577, 2580
DC-Operated 2559, 2579
Diaphragm 2578
Diesel-Powered 2561-2562
Electric . . . . . 2496, 2559-2560, ... 2562-2566, 2577-2580
Gasoline-Powered 2560-2562
HVAC 2562
Oil-Less 2559-2560, 2577-2580
Piston 2579-2580
Portable 955, 2496, 2559-2561, 2579
Regenerative Blower 2584
Rotary Screw 2562, 2565-2566
Stationary 2559-2566, 2577-2580
Twin Stack 2559
Vehicle-Mounted 2559

AIR CONDITIONER
Air Handlers 3091
Blowers 2975-2979, 2985
Capacitors 65-66, 3031
Charging Hoses 3006
Charging Valves 3006, 3015

Chemical Additives 946, 2820, 3012-3013
Coil Cleaners 3011-3013
Compressors 3014
Condensate Pump Kits 2662
Condensate Tanks 2662
Condenser Anti Short-Cycle Kits 3091
Condensers 3091
Conduit Kits 3094
Controls ... 416, 2993, 2995, 3023, 3025, 3036
Copper Tubing 2847, 3094
Covers 2991, 2998, 3001
Disconnect Switches 3094
Disinfectants 3011
Drain Kits 2992-2993
Drain Pan Treatments 3012
Dryers 3015
Duct Flanges 2997
Ductless Split Systems 2994-2995
Evaporator Coils 3091
Expansion Valves 3019
Filter/Dryers 946, 3015
Filter Mats 301
Filters (See Air Filters)
Flush 946, 3012-3013
Gauges 946, 2994, 3005, 3009
Grilles/Guards 2992-2993, 2995, 3094
Hard Start Kits 3031
Hose Kits 2996
Leak Detection Dyes 946
Line Dryers 3015
Line Sets 3094
Motors 42, 44-56, 59
Mounting Hardware 2990, 2992, 3094
Panels 1311-1312
Plenums 2995, 2997
Power Cords 2993
Refrigerants 3013
Refrigeration Vacuum Pumps ... 946, 2582, 3007
Relays 3031, 3035
Sight Glasses 3013
Subbases 2993
Supports 2990, 3094
Switches 3016, 3094
Thermostats 2968, 2993, 2995, 3020-3021, 3023-3025, 3028
Time Delay Relays 3031, 3035
Timers 416
Tools 788, 917-918, 946, 3010
Trim Rings 2997
Tubing 2847, 3006, 3017, 3094
Wall Sleeves 2992-2993
Whips 323, 3094
Window-Mount Frames 2990
Wrenches 788, 3010

AIR CONDITIONERS,
Ceiling-Mount 2995
Ductless 2994-2995
Electrical Enclosure 301-302
Hazardous Location 2991-2992
Industrial 2991-2992, 2995, 2997
Mini Split 2994-2995
Packaged Terminal 2992-2993
Portable 354, 2921, 2991, 2996-2998
Room 354, 2921, 2990-2998
Split System 2994-2995
Wall 2992
Window 2990-2991

AIR CURTAINS & ACCESSORIES
..... 2969-2971

AIR CYLINDER
Carts 1774, 2411
Couplings 2539
Mounts 2537-2541
Position Sensors 2480, 2553
Racks 1774

AIR CYLINDERS,
Cushioned 2538-2540
Double-Acting 2537-2541
Double End-Mount 2537-2538
Magnetic Piston 2538-2539
Metal 2537-2539, 2541
Nonrotating Rod 2541
Nose-Mount 2537-2538
Pivot-Mount 2537-2538
SCBA (Self-Contained Breathing Apparatus) 1773
Single-Acting 2537
Tie-Rod 2539-2541
Twin-Rod 2541

AIR DRYER ACCESSORIES 2587, 2589

AIR DRYER REPAIR KITS 2587, 2589

AIR DRYERS,
Compressed 2565-2566, 2587-2589
Desiccant 2588-2589
Refrigerated 2566, 2587-2588

AIR DUCT
Boosters 3103-3104
Extensions 2997
Fittings 3097-3099
Reducers 2921, 3097-3098
Straps 2827
Wraps 1883

AIR DUCT,
Flexible 1785, 2921, 2949, 2997, 3083-3084, 3102
Rigid 3097-3099

AIR FILTER
Change-Out Bags 3056
Cleaning Units 1824
Frames 3056-3058
Gaskets 3055
Handles 3052
Kits 1770-1771
Pad Clips 3057
Paint Collector Frames 3058
Replacement Carbon 2722
Support Rods 3058

AIR FILTERS,
Air Cleaner 233, 2363, 2408, 2989, 3049, 3059-3062, 3093
Air Compressor ... 2567-2568, 2575-2576, 2584
Air Dryer 2587, 2589
Antimicrobial 3048, 3050, 3060
Automotive 947
Carbon Media 233, 636, 2722, 2990, 3050, 3055, 3059-3061
Cartridge 3054
Charcoal Media 2722, 3055
Cleanroom 3056, 3059
Cube 3053
Electrostatic 3051
Extended Surface 3053-3055
Fan Guard 3051
Fiberglass 3051, 3053-3055
Food Processing 2592
Furnace ... 3047-3051, 3053-3056, 3093, 3102
Heating 1624, 3047-3051, 3054-3058, 3076, 3083
HEPA 636, 2989, 3056, 3059-3061
Intake 1624, 2575-2576
Kitchen 3052
Link 3052, 3058
Metal 301, 2955, 3052, 3057, 3060
Mini-Pleat 3054-3055
Paint 1624, 1626, 2589, 3058
Paint Collector Grid 3058
Panel 947, 1770, 2955, 3047-3052, 3058
Pleated 3047-3050, 3054-3055, 3059-3060, 3093
Pocket 3053
Polyester 3048, 3050-3053, 3058
Polyurethane Foam 2926
Restaurant 3052
Rigid Cell 3054-3055, 3060
Ring Panel 3052, 3058
Self-Gasketing 3053
Sprayer 1626, 2575, 2589
Sterile 2592
Synthetic 3048, 3050, 3052-3055, 3057
Trim-to-Fit 1624, 3057-3058
V-Bank 3055
Washable 2955, 3051-3052

AIR GAPS & ACCESSORIES 2905-2906

AIR HOSE
Assemblies 962, 1772, 2604-2606
Clamps 2531-2535
Connectors 962, 2522
Coupling Plugs 2519-2522
Couplings ... 962, 2519-2522, 2530-2531, 2586
Fittings 962, 2519-2522, 2530-2531, 2586, 2612
Lockouts 1946
Manifolds 2461
Reels 400, 2435, 2523-2529
Safety Clips 2531

AIR HOSES 1626, 1765, 1768-1772, 2435, 2461, 2529, 2610-2612

AIR LINE
Compact Filters ... 2591, 2593, 2598, 2600-2601
Connectors 962, 2519-2522, 2586
Control Relays 3041, 3043
Drain Valves 2572-2573
Filter Brackets ... 2591, 2593, 2597-2599, 2601
Filter Clamps 2591
Filter Drains 2571, 2593, 2597-2599
Filter Elements 2575, 2585, 2589-2594, 2596-2599, 2601-2603
Filter/Regulator/Lubricators 2595, 2598, 2600-2602
Filter/Regulators 2594, 2597, 2599, 2601-2602
Filter Replacement Parts 2589, 2594, 2596
Filters 1626, 2575, 2589-2594, 2596-2598, 2600-2603
Fittings 288, 2519-2522, 2530-2531, 2586
In-Line Filters 2603
Jumbo Filters 2596-2598
Lubricator Replacement Parts 2595, 2597
Lubricators 2595, 2597, 2599, 2601-2603
Mini Filters 2593-2594, 2596-2597
Mist Eliminators 2603
Mounting Brackets 2591, 2594-2599, 2601
Oil Vapor Removal Filters 2592-2593, 2597
Regulator Brackets ... 2594, 2596-2598, 2601
Regulator Panel Nuts 2594
Regulator T-Handle Conversion Kits 2594
Regulators 1626, 2428, 2543-2544, 2553, 2594, 2596, 2599-2603

AIR PUMPS,
Ambient 1770-1771
Automotive 685, 955
Bicycle 685, 955
Compressor 955
Hydraulic 946, 2467, 2472
Oil-Less 1771
Respirator 1770-1772

AIR TOOL
Abrasive Discs 2378
Grease 2456
Hammer Retainers 2514
Lubricants 2438, 2455-2457
Nails 2497-2500
Needle Sets 2512
Oilers 2603
Oils 2456-2457
Retainers 2514
Sander Pads 2374
Saw Blades 2511
Sets 2503
Silencers 2551
Speed Controls 2551
Staples 2500-2501
Swivel Fittings 2519

AIR TOOLS,
Adhesive-Dispensing 2233
Air-Brushing 1625
Angle Grinder 2506-2507
Backfill Tamper 2513
Belt Sanding 2510
Buffing 2510
Caulking 2233
Chipping Hammer 715, 2512-2513
Chiseling 715, 2512-2514
Concrete Vibrator 149
Cut-Off 2508, 2511, 2586
Die Grinder 2507-2508
Digging 2513
Drilling 2504
Engraving 2511
Fastening 2496, 2498-2501
Grease Gun 933-934
Grinding 2506-2509
Hammer 2512-2513
Impact Wrench 2502-2503
Pavement-Breaking 2513
Pencil Grinder 2509
Ratchet Wrench 2503
Rivet Buster 2513
Rivet Gun 684, 2135, 2505-2506, 2512
Sanding 2509-2510
Sawing 2511
Scaling 2512
Screwdriver 2505
Sealant-Dispensing 2233
Shear 2511
Tacking 2500-2501

AIR VALVES,
Ball Roller 2547
Bypass 2590
Flow Control 2548, 2550-2553, 2882
Heavy-Duty Limit 2547
Lever 2542, 2546-2548
Manual-Return ... 2542, 2546-2548, 2595, 2601
Mechanical 2542, 2546-2548, 3041
Miniature 2547, 2553
Pilot 2542, 2544-2545, 2547-2548, 2550-2551, 2553
Pneumatic Solenoid 3041-3042
Safety ... 2553, 2573-2574, 2595, 2601, 2894
Shuttle 2547
Spring-Return 2542-2551

AIR VELOCITY
Gauges 570, 2591
Meters 543, 571-572, 583, 619-621
Probes 618-619

AIR,
Compressed 232, 2446

AIRCRAFT
Band Radios 2027
Cleaners 901, 908-910, 922, 939

AIRFLOW
Adapters 620, 3062
Indicators 543, 572, 619-621, 1780, 2685, 2687, 3096
Probes 618-619, 3042, 3046
Smoke Tubes 1780, 2051, 3029
Switches 570, 2687, 3041, 3046, 3104

AIRLESS SPRAYERS & ACCESSORIES
..... 1625, 1627-1629

AIRPOTS 1439

ALARM
Back Boxes 1885, 2052
Batteries 1996
Clocks 587, 2036
Contacts 174, 2053, 3036
Covers 1979, 2053
Panels 2051, 2629, 2655
Power Supplies 1979, 2051
Thermometers 586-587, 592-593, 601-602, 1455

ALARMS,
Backup 966
Basement Water 2629
Bell 198, 1375, 1885-1886, 2052
Carbon Monoxide 617, 1881-1882, 3029
Exit 1993, 1995-1996, 2053
Eyewash Station 1844
Fire 1881-1882, 1886, 2040, 2051-2052, 3029
Fluid Level 581, 2629
Motion Sensor 2053
Motor Starter 174
Personal Protection 1886, 2034

Pump 221, 2622, 2629
Sound Level 624
Temperature 586-587, 610, 615, 1455
Vehicular 966
Visual . . . 221, 279-280, 1885-1888, 2052, 3029
Water 874, 2629, 2679, 3092
Wireless 2034, 2053

ALCOHOL
Bottles 232, 1829
Wipes 232, 1829, 1831, 1834

ALGICIDES 1480

ALIGNERS,
Pipe Flange 2425

ALKALINE
Battery Shells 362, 2024
Cleaners 939, 1509

ALL THREAD (SEE THREADED RODS)

ALLERGY MEDICINES 1830

ALLIGATOR CLIPS 549-550, 824, 924

ALLOY STEEL 2186

ALLOYS,
Brazing 2432

ALTERNATOR HARNESSES 2055

ALTIMETERS 620

ALUMINUM
Foil 1387, 1449, 2185
Putty 2220
Stock 2179, 2182-2185, 2192

AMERICAN FLAGS 1351

AMMETERS,
Analog 539, 544
Clamp-On . . . 537, 540-544, 546, 551-552, 562
Current Leakage 547
Digital 225-226, 536-544, 547, 551-552, 556, 558-559, 562, 607
Panel-Mount 225, 559
True RMS 536-537, 541-544, 551, 558

AMMONIA
Detectors 622, 624, 1776, 1779, 1781, 3010
Gauges 577
Inhalants 1831, 1834-1835

AMMUNITION SAFES 1968

AMPLIFIER PROBES 364

AMPLIFIERS,
Air 2583
Speaker 1885, 2038, 2040, 2052
Respirator 1768
Telephone 2036

ANALYZERS,
Air Quality 543, 617-619
Carbon Dioxide 617-619, 623
Carbon Monoxide 617-619, 623
Combustion 617, 623
HVAC 543, 571-572, 618-621, 3010, 3012
Hydrogen Sulfide 623
Load 547, 551-552
Nitrogen 623
Noise 624
Power 537, 551-552
Telephone Line 363-365

ANCHOR
Bits 711, 2161
Bolts 1227, 2162-2164, 2166-2167
Cement 1631, 1633
Pin Drivers 2147, 2161
Screens 2161
Setting Tools 1916, 2147, 2161, 2166, 2172
Shackles 1067
Slings 1098, 1790-1791

ANCHORAGE
Connector D-Rings 961, 1790-1792
Connector Tie-Offs 1792
Connectors 1790-1792, 1801, 1806

ANCHORS,
Adhesive 2172, 2218
Brick 2165
Cable 1353, 1792
Caulking 2170
Chemical 2172
Concrete 1632, 1790-1792, 2147, 2162-2168, 2170
Concrete Block 2168, 2170
Deck 1481
Drop-In/Flush 2166
Drywall 2169-2170
Earth 980, 1010
Expansion 2163, 2165, 2168
Fall Protection 1790-1792
Framing 1119
Guard Rail 1134
Hammer-Drive 2168
Hook 1792
Masonry . . . 1632, 2147, 2161-2168, 2170, 2172
Molly 2170
Pin Drive 2168
Rod 318, 2147, 2172
Roof 1790-1792, 1806
Screw 2097, 2147, 2163, 2166-2170
Shelter 980, 1010
Sign Post 1916
Sleeve 2165
Stone 2165, 2168
Stud 2172
Tap 2167
Tether 858-860
Threaded Rod 318, 2147
Tie-Down Strap 961, 1103, 1105-1107
Toggle 2165, 2168
Trailer/Truck 961, 1105-1107
U-Channel Post 1916
Umbrella 2161
Wallboard 2169-2170
Wedge 2162-2164

ANEMOMETERS & ACCESSORIES
. . . . . 543, 571-572, 583, 620-621

ANGLE
Clamps 834
Drills 703, 2504
Iron, Slotted 1250
Levels 883
Locators 882-883
Plates 2019
Plugs 334-335
Sanders 665, 677, 688, 691, 695, 719, 721-722, 725, 2509
Valves 2718, 2889, 2911

ANGLE GRINDER
Abrasive Discs . . . 2371-2373, 2377-2379, 2382
Abrasive Wheels 737, 2382-2388, 2391, 2394
Brushes 862, 2394, 2397-2398
Wheel Guards 722

ANGLE GRINDERS,
Air 2506-2507
Cordless 665, 677, 686, 688, 691, 695
Electric 691, 719, 721-722

ANGLES,
Aluminum 2182
Carbon Steel 2186
Plastic 2197, 2209, 2213
Stainless Steel 2189

ANNULAR CUTTERS & PILOT PINS 740

ANTACIDS 1830-1831

ANTENNAS,
Radio 2029-2032
Remote Speaker 2037

ANTI-FOG
Lens Sprays/Gels 1666
Safety Glasses/Goggles 1650-1664, 1667-1668

ANTI-TIE-DOWN CONTROLS 2551

ANTIBACTERIAL HAND CLEANERS
. . . . . 1496-1498, 1500-1501

ANTIBIOTIC OINTMENTS
. . . . . 1829, 1831-1835, 1837

ANTICONDENSATION HEATERS
. . . . . 302, 3065-3066

ANTIFATIGUE MATS 1048, 1890-1891, 1893-1899

ANTIFOGGER/DEICERS 902, 909

ANTIFREEZE/COOLANTS,
Automotive 903-904, 962

ANTIFREEZE TESTERS
. . . . . 626, 918, 2462, 3012

ANTIFREEZE,
Air Brake 962
Fuel 900
Glycol-Based 903, 3012
Pipe 3012
Pump 1594, 1628

ANTIMICROBIAL
Air Filters 3048, 3050, 3060
Floor Grating 2195
Hand Cleaners 1496-1498, 1500
Mats 1892-1894, 1898-1899
Paints 1595, 1599
Towelettes 1500, 1510, 1512
Tubing 1594, 2606, 2615

ANTIOXIDANTS 380

ANTISEIZE
Lubricants 901, 2441, 2443-2445
Penetrants 2438, 2442, 2445

ANTISEPTICS 1829, 1831-1833, 1837

ANTISKID
Additives 1604
Coatings/Paints 1523, 1604, 1609, 1634
Grating 1047, 1900, 2195-2196
Pads 1342, 1904
Tape 1900-1901, 1903

ANTISPATTER,
Welding 2428

ANTISTATIC
Air Guns 2582
Bags 561
Construction Film 1099
Containers 1286
Furniture 1280, 1334-1335
Gloves 1670-1672
Grounding Components 561, 921, 1320
Kits 561, 921, 1320
Testers 561
Tools 803
Trays 1293
Vacuum Cleaners 1565, 1572

ANTIVIBRATION
Casters 1206, 1208
Glove Liners 1697

APERTURES,
Infrared Calibrator 604

APPAREL (SEE CLOTHING)

APPLIANCE
Connectors 2521, 2717-2718, 3096
Cords 400-401, 470
Lamps 482, 487, 489, 497-499
Motors 36-37
Timers 419-421
Touch-Up Paints 1609
Wire (AWM) 344

APPLIANCES,
Food Service . . . 1439, 1442, 1459, 1462-1465

APPLICATOR SWABS, COTTON
. . . . . 954, 1830-1831, 1834

APPLICATORS,
Adhesive 670, 679, 685, 688, 891, 2161, 2172, 2219, 2233-2236, 2238
Asphalt 1544
Caulk 670, 679, 685, 688, 887, 2219, 2233-2234, 2236
Grout Sealant 891, 2236
Paint 877, 907, 1611, 1616-1620, 1622, 1625-1629
Protection Film 1099, 1623-1624
Stain 1620, 1622
Tape 1357, 1394-1396
Wax 911, 1622

APRONS,
Acid-Resistant 1733-1734
Aluminized 1715
Bib 1709, 1716-1717, 1733-1734, 1740
Chemical-Protective 1733-1734, 1737, 1739-1740
Coat 1734
Cryogenic 1733
Cut-Resistant 1733
Disposable 1734, 1737
Electrician's 755
Flame-Resistant 1709, 1716-1717, 1733
Heat-Protective 1715-1717
Nail 755, 757
Splash-Resistant 1733-1734, 1740
Tool 755, 757, 858
Welding 1716

AQUASTAT CONTROLS 3030

ARBOR
Adapter Nuts 708
Adapters 710, 2380, 2385, 2399
Extensions 705, 708
Presses 2357, 2470
Shims 2180
Spacers 708, 2180

ARBOR SAWS 666, 677, 733

ARBORS,
Drill Bit 713-714
Drive 2399
Hole Cutter 851
Hole Saw 708, 851
Straight-Shank 2315

ARC
Electrodes 2417, 2422
Fault Circuit Breakers 188, 191, 197, 200
Fault Receptacles 331
Welders 2412, 2416, 2418, 2421

ARC FLASH
Headwear 1708
Rated Harnesses 1794, 1796, 1798

ARC FLASH PROTECTIVE
Apparel Bags 1707, 1709, 1711
Blankets 1711
Clothing . . . 1707-1709, 1712, 1714, 1728, 1740
Faceshields 1707, 1709
Gloves 1685, 1703, 1709
Tape 374
Windows 609, 614-615

ARCH PUNCHES 821

ARGON REGULATORS 2428-2429

ARM
Guards 1686, 1703, 1715-1717, 1733, 1739
Slings 1830-1831

ARMCHAIRS 1334, 1336

ARMREST LINER BAGS 1817

ARMRESTS 1335, 1481

ARMS,
Air Cleaner Extractor 233
Cantilever 1238
Document Display 1383
Drain 2722, 2724
Gate 1969
Monitor 1320, 1343
Shower 2744
Torque 85

ARRESTORS,
Flashback 2435
Surge 188, 190-191, 197, 203-204, 332, 353, 3031
Torque 2656
Water Hammer 2913

ARTICULATING
Borescopes 543, 616-617, 672, 684, 866
Ladders 1027-1028, 1030

ARTICULATING ARMS,
Monitor 1320

ASCENDERS 1808

ASHTRAYS 1552

ASPHALT
Coater/Applicators 1544
Cutters 673, 713, 715, 717-718, 2514
Lutes 999
Mainteance & Repair Materials 1630-1633, 2230-2231
Rakes 999
Removers 1519
Saw Blades 720
Saws 673, 717-718
Tampers 715

ASPIRATOR HOSE ASSEMBLIES 619

ASPIRIN 1830-1831, 1833-1835

ASSEMBLY
Stations 1316-1317, 1319-1323, 1399
Trays 1293

ATOMIZING SPRAY NOZZLES 1629

ATTIC VENTILATORS 2968

ATTRACTANTS,
Insect 1021

ATV (ALL-TERRAIN VEHICLE)
Sprayers 1002
Spreaders 996

ATVS (ALL-TERRAIN VEHICLES) 989

AUDIO
Cables & Adapters 349-350, 358-361
Jacks 355, 2028
Plugs 351
Surface Boxes 356

AUDIO-VIDEO
Cables 351, 358-359
Wall Plates 360

AUDIOVISUAL
Carts 1343, 1353
Equipment Racks 2023
Lamps 488, 495, 501

AUGER
Adapters 1008
Bits 705
Drive Motors 34, 2474

AUGERS,
Closet 863
Drain Cleaner 865
Earth 1008
Ice 1008

AUTO BODY
Repair Materials 905-906, 2055
Repair Tools 827-828, 2511-2512

AUTOCLAVES 641

AUTOMOTIVE
12-Volt Accessories 209, 361, 927-929, 949-950
Accessory Replacement Plugs 949
Air Cleaners 896
Air Conditioner Accessories 946
Air Filters 947
Air Fresheners 909
Air Hammers 2512-2513
Air Pumps 685, 955
Air Ratchets 2503
Air Saws 2511
Alternator Harnesses 2055
Antenna Mounts 950
Antifreeze/Coolants 903-904, 962
Battery Boxes 924
Battery Cables & Accessories 923-924
Battery Chargers 209, 925-929, 949
Battery Service Tools 626, 921-924
Beverage Holders 950
Brake Bleed Kits 919, 931
Brake Fluids 899, 901, 962
Cables 923, 961
Camera Systems 949
Circuit Breakers 200, 965
Clamps 924, 2055, 2531-2533
Clocks 950
Coolant Additives 903
Cooling System Tools 918, 946
Couplings 962, 2519-2522
Covers 948
Cranes 943, 1064
Creepers & Creeper Seats 945
Cut-Off Tools 2511
Dashboard Fans 2925
Deicers 902
Detailing Supplies 908-911, 922
Diagnostic Tools 920-921
Die Grinders 2507-2508
Document Holders 950
Drills 2504
Engine Cooling Fans 2925
Engine Stands 943
Fender Covers 948
Filter/Dryers 946
Finishing Putty 905
Fluid Containers 2461
Fluid Extractors 918, 931, 946
Fuel Additives 896-897, 900
Fuel Filters 947, 2671, 2710
Fuse Holders 929
Fuses 200, 949, 965
Grease 897, 899-900, 905, 2450-2453
Hoist Power Units 2472-2474
Hoists 943, 1064
Hood Props 916
Horns 966
Hose Clamps 2055, 2531-2533, 2535
Hoses 918, 947
Interior Lighting Fixtures 968, 979
Jacks & Jack Plates 940-944, 960, 1193, 2468
Keyless Entry Batteries 534
Lamp Mounts 2055
Lamps 493, 497-504, 967-979, 1888
Lifts 942-943
Lubricant Filters 947
Lubricants 894-901, 903, 946, 2438, 2440-2442, 2445
Maintenance Tools 948
Measuring Sticks 950
Mirrors 948, 1913
Mobile Phone Holders 950
Navigation Systems 949
Oil Change Pumps 2461, 2672
Oil Filter Wrenches 919
Oil Pans 931
Oils 894-900
Paints & Finishes 906-907
Pliers 839, 843, 846, 859, 916-919, 922
Power Ports/Stations 209, 361, 929, 949
Power Steering Fluids 899
Primary Wire 929
Pullers 912-917
Reflectors 978
Refrigerants 3013
Repair Kits 905, 916, 953, 955
Ring Applicators 2155
Rust Treatments 903, 906-907
Sanders 2509-2510
Sealants 897, 903, 905, 955, 2224, 2230-2231, 2233
Seat Belt Pads 950
Sensor Sockets 919
Service Kits 912, 916-917, 919, 2671
Solder 239
Specialty Tools 839, 912, 916-917, 920, 922, 930, 962
Stands 941-943, 2466
Starter Fluids 897
Starting System Testers 921-922
Stethoscopes 920
Suspension Tools 916
Testers 537-538, 626, 918-922, 961, 2462
Tire Pressure Gauges 955-956
Tire Service Supplies 909-910, 952-955, 957
Tire Service Tools 685, 952-957, 962, 2518
Tire Valves 954
Transmission Fluids 897
Undercoatings 907
Waste Containers 950
Waxes 908, 910
Windshield Wipers 947
Wire Connectors 961, 2055
Wiring Harnesses 2055

AUXILIARY CONTACTS
. . . . . 160, 162-163, 165, 169-176, 218, 298

AWLS,
Scratch 802, 848, 2343

AXES 827, 862, 1007, 1820

AXIAL FANS & ACCESSORIES
. . . . . 302, 1784-1785, 2926-2927, 3104

AXLE
Cap Nuts 2085
Jacks 941
Pullers 914-915

B

BACK BELTS & SUPPORTS 1706

BACK BOXES,
Alarm 1885, 2052
Marine 310
Nonmetallic 310
Pin and Sleeve 342

BACKBOARD HEAD IMMOBILIZERS
. 1821-1822

BACKBOARDS 1478, 1822

BACKFLOW PREVENTER
Replacement Parts 2904-2906
Test Kits 2904
Valves 2627, 2656, 2694, 2806, 2850, 2861-2862, 2889, 2898-2900, 2903, 2905-2907

BACKPACK
Blowers 988
Sprayers 994, 1000-1001
Vacuum Cleaners 678, 1570

BACKPACKS,
Emergency Response 1820, 1837
Protective Apparel 1709
Tool 754
Water 1828

BACKSTOPS,
Workbench 1316-1317

BACKUP
Alarms 966
Lights, Vehicle 977
Rings 2174
Systems, UPS 213-214

BADGE ACCESSORIES
. . . . . 1375, 1907, 1966, 1970

BADGES,
Blank Identification 1362, 1970
Name 1362, 1406
Security 1970

BAFFLES,
Grease 3052
Sound 1889, 2763

BAG
Dispensers 1350, 1407
Filters 1568, 1574, 2711, 3053, 3059
Hand Trucks 1190
Sealers & Accessories 1396, 1406
Ties 1407

BAGS,
Air Filter Change-Out 3056
Biohazard 1562
Caddy 1525
Canvas 754-757, 1298, 1709, 1711
Chain Hoist 1055
Cloth 754, 756, 1410, 1526, 1823
Containment 1298
Desiccant 1413, 2589
Dewatering 1858
Drawstring 756, 1410, 1478, 1559, 1561, 1774
Duffel 757, 1774
Dunnage 1413
Dust Barrier Carrying 1122
Dust Collector 1574, 1579, 2363, 2403
Fall Protection Equipment 1795
Feminine Hygiene Disposal 1494
Filter 938, 1563, 1565, 1570, 1574, 1576, 1858, 2571, 2711
First Aid/Medical 1820, 1838-1839
Food Service 1407-1410, 1443, 1458
Furniture-Protective 1410
Garbage 950, 1000, 1559-1562
Gear . . . 756-757, 1478, 1709, 1711, 1774, 1820
Glove 1710
Grocery/Shopping 1411
Grout 891
Hair Dryer 1474
Hamper 1535
Hazardous Waste 1562
Heat-Seal 1407-1408, 1414
Housekeeping Cart 1526
Ice 1408
Inflatable 1413
Laundry 1475, 1535
Leaf 1562
Leather 754
Litter 950, 1000
Lockout 1948-1949
Mailing 1407, 1410
Mattress 1410
Merchandise 1409
Nail 755, 757
Paper 1411
Parts 756, 1298, 1410
Personal Property 1824
Pet Waste 1554
Plastic 1298, 1350, 1407-1410, 1414, 1418, 1443, 1526, 1561
Polyethylene 1407-1410, 1414, 1443
Polypropylene 1298, 1409-1410, 1526
Protective Apparel 1707, 1709
Reclosable 1409-1410, 1414, 1443
Respirator 1773-1775
Sampling 656
Sand 1860

Shipping. 1298, 1407-1409, 1413-1414
Shredder 1377
Shrink 1418
Slide Closure 1409, 1414, 1443
Soft-Sided 754-757, 980, 1478, 1773, 1823
Static Discharge 561
Storage . . . . 756, 980, 1122, 1298, 1407-1410, ... 1414, 1443, 1709, 1785, 1823
Tool 548, 744, 754-757, 848
Trash 950, 1000, 1559-1562
Trauma. 1820, 1835
Tree Watering. 1012
Umbrella 1350
Vacuum Cleaner. . . . . 990, 1563, 1565-1566, ... 1568, 1570, 1572, 1574, 1579
VCI 1413-1414
Vehicle Service 948
Void-Filler 1413
Water Filter 2711
Waxed 1494
Welding Gear 756

BAILERS,
Water Sampling. 633

BAIT,
Rodent. 1018

BAKER'S PADS 1703

BAKING PANS/DISHES. 1449

BALANCE WEIGHTS 645, 1430

BALANCERS,
Air 620-621
Tool 1320-1321
Wheel and Tire. 952

BALANCES,
Electronic. 644, 1426-1428, 1430
Mechanical 1425

BALL
End Hex Keys. 805-807, 848
Hex Drivers 803, 805
Inflation Pumps 1478
Knobs. 2321, 2323-2324
Lock Pins 2321
Pein Hammers. 825-826, 863
Rollers 1112
Transfer Conveyors & Parts 1111-1112

BALL BEARING
Hinges 2007, 2009-2010
Wheels. 1214-1220

BALL BEARINGS 133-138, 140-142

BALL JOINT PARTS. 916

BALL JOINTS,
Quick Fit Duct 3099

BALL VALVE
Lockouts 1947, 1949
Replacement Parts 2871
Stem Extensions 2864-2865

BALL VALVES,
2-Way 2789, 2860, 2869-2871
3-Way 2860, 2863-2864, 2866-2868, 2871
Aluminum 1818
Brass . . . . . 1818, 2553, 2572, 2586, 2807, ... 2850-2851, 2860-2864, 2871
Bronze 2862, 2864-2866, 2871
Carbon Steel 2867-2868
CPVC 2817, 2869-2870
Fire-Safe 2867
Instrumentation 2860
LP/Natural Gas. 2862-2864, 2866
Miniature 2553, 2850, 2861
Nylon 2553
Pneumatic . . . . . 2572-2573, ... 2586, 2598, 2871-2872
Polyamide 2586
Polypropylene 2870-2872
PTFE. 2863, 2866
PVC 2869-2870, 2872
PVDF (Polyvinylidene Fluoride) 2817
Sanitary 2789
Stainless Steel. . . 2789, 2860, 2866-2868, 2871
Ballast
Capacitors 478
Checkers 476
Core and Coils 477-478
Disconnects. 388
Disposals. 512
Housings 445
Ignitors. 478
Kits. 477-478

BALLASTS,
Barricade. 1860, 1909
Circline. 476
Dimming 472-475
Electronic. 471-476
Emergency Lighting. 423
F-Can. 477
Fluorescent 423, 472-476
HID (High-Intensity Discharge) 477-478
High-Output. 473-475
High-Pressure Sodium (HPS). 477-478
Instant-Start 473, 475, 477-478
LED 423, 471
Magnetic 476-478
Metal Halide. 477-478
Preheat 476
Programmed-Start. 472-474
Pulse-Start. 477-478
Rapid-Start 472-474, 476
Sign 476
Trigger-Start 476
VHO (Very High Output) Magnetic 476

BALLISTIC EYEWEAR 1654, 1661

BALLPOINT PENS & REFILLS . . . 1355, 1366

BALLS,
Conveyor Ball Transfer. 1112
Exercise. 1477
Float. 2620, 2911
Stainless Steel. 2190
Team Sport 1478
Trailer Hitch 958-959

BALOMETERS & ACCESSORIES 618

BALONEY CORDS 413

BANANA OIL FIT TEST KITS. 1775

BAND
Clamping Tools . . . 834, 2533-2534, 2536, 2805
Clamps & Clips. . . . . 918, 2055, ... 2531-2533, 2535, 2612

BAND SAW
Blades 2351-2354
Cutting Fluids. 2351
Guards 2350
Tension Gauges 2351

BAND SAWS,
Cordless. 687
Deep Cut 736
Horizontal 2349
Miter 2349
Portable 669, 677, 683, 687, 736
Stationary 2349-2350
Vertical. 2349-2350
Wet 2349

BANDAGES. 1829-1835, 1837

BANDANAS 1641

BANDFILES 723

BANDING
Brackets. 2535
Buckles 1103, 1421, 1423-1424, 2535
Cutters. 817, 1419-1420
Materials 1419, 1421-1424, 2535
Sealers & Seals 1419-1420, 1422-1424
Strapping. 1419, 1421-1424, 2533, 2535
Tools 1419-1423, 2533, 2536

BANDS,
Abrasive. 2381
Hearing 1645
Rotary Tool. 724
Rubber. 1359
Spiral. 2381

BANNERS,
Safety 1907

BAR
and Chain Oils 2441
Clamps. 833-834, 836, 2425
Faucets 2739-2742
Grating. 2193
Hangers. 308
Magnets. 830, 990
Pullers 912, 915-916, 1059
Racks. 849, 1168, 1238-1239, 1307
Sinks 2731
Spreaders 833, 836
Stools. 1444
Storage Trucks. 849, 1168

BAR CODE
Labels 370, 1405
Printers 1379

BARBECUE GRILLS. 1459

BARBED WIRE. 1010

BAROMETERS 583-584, 594, 620

BARREL
Blankets. 1141
Bolts. 2103
Bung Sockets. 1140
Carriers 930, 1142-1146, 1188, 1190, 1861
Clamps. 924, 1145
Deheaders & Blades 1140, 1144, 1188
Dollies 930, 1142, 1861
Faucets 1140
Funnels 930, 1140
Grabbers 1144-1146
Heaters 1141
Hinges 2013
Hooks. 861
Inserts 1139
Level Gauges 581, 1140
Lifters 1144-1146
Liners. 1139
Locks. 1139
Plug Wrenches. 863, 1140, 2751
Pump Tubing 2675
Pumps . . . 896, 933-934, 936, 2670, 2672-2677
Rings 1139
Safety Vents. 1140
Scales 1425
Screws. 2103
Sight Tubes 1140
Spigots. 1140
Trucks 1142-1143, 1146, 1188, 1190
Valves 1140

BARRELS,
Binding 2103
Cardboard 1138
Channelizer 1910
Grease Gun 932
Rain 1012
Shipping and Storage . . . . . 1138-1139, ... 1573, 1861, 2695
Traffic. 1910

BARRICADE
Ballasts 1860, 1909
Bases. 1908, 1910
Batteries 534
Beams 1909
Brackets. 1908
Chains 1527, 1910, 2043
Fences. 1133, 1527, 1908
Frames/Legs 1909
Lights. 1527, 1909
Posts 1133-1134, 1910, 2042-2043
Systems. 1527, 1908-1909
Tape 1907
Weights 1860, 1908-1909

BARRICADES,
Safety 1132-1134, 1527, 1908-1912

BARRIER
Accessories 1122, 1623, 1908, 1910, 2043
Fences. 1010, 1019, 1133, 1908
Receiver Posts. 2042-2043
Signs 1909
Strips. 395

BARRIERS,
Crowd Control . . . . . 1133-1134, 1352, 1527, ... 1908, 1910, 2042-2043
Manhole. 1783
Safety 1132, 1134
Vapor 1099, 2677

BARRING TOOLS 920

BARS,
Aluminum 2184
Breaker 768-769, 771-772, 862
Bulletin 1358, 1367, 1373
Carbon Steel 2187
Cargo 1106
Chain Saw 1004
Clearance. 1129
Clothes. 1171
Crash 1976, 1993-1996, 2003
Digging 823, 999
File Cabinet 1962
Grab 2759-2761
Halligan 1820
Johnson. 1191
Machine Mover 1193
Pallet Rack. 1229
Pinch Point. 823, 862, 999
Pry 823, 861-863, 953, 999, 1191, 1820
Ratcheting Breaker 771
Ripping Chisel 823
Safety Cone 1911
Socket . . . . . 758, 768-769, 771-772, 775, ... 779, 861-862
Stainless Steel. 2759
Stirring. 646
Tapping Torque 2315
Towel 2760
Traffic Cone 1911
Trailer Hitch 958-959
Wrecking 823, 862-863, 953, 999

BASE
Covers, Signal 280
Magnets. 829, 2019
Manifolds. 2549-2550
Neutralizers 1854

BASE PLATES,
Structural Framing. 316, 1119

BASEBALL/SOFTBALL EQUIPMENT . . . 1478

BASEBOARD
Cleaners. 1523, 1578
Pads. 1536
Registers 3102
Strippers 1523

BASEBOARD HEATER ACCESSORIES
. . . . . 3024, 3026, 3072, 3090

BASEBOARD HEATERS. 3069, 3072

BASEMENT WATER ALARMS. 2629

BASES,
Airless Spray Gun Tip. 1628
Cabinet 1305-1306, 1345, 1870

Cord Reel . . . 398
Coring Rig . . . 716
Fan . . . 2916
File Cabinet . . . 1345
Flat File . . . 1345
Garbage Can . . . 1553
Guardrail . . . 1133-1134, 1789
Hydraulic Valve . . . 2475
Indicator . . . 279, 2333
Indicator Beacon . . . 278-280, 1887
Laser Level . . . 880
Lighting Fixture . . . 278, 306
Locker . . . 1254, 1256
Magnetic . . . 2333
Meter . . . 2333
Motor Mounting . . . 95
Pedestal . . . 258, 1605
Post . . . 1133, 1916
Pump Mounting . . . 2698
Push-Button . . . 244-246, 258
Retail Display . . . 1240
Safety Barrier . . . 1908, 1910
Shower . . . 2746
Signal . . . 278-280, 1887
Speed Reducer . . . 87-89, 93
Sump Pump . . . 2626
Table Umbrella . . . 1482-1483
Tacky Mat . . . 1899
Test Indicator . . . 2333
Traffic Cone . . . 1910
Turbine Ventilator . . . 2968
Vise . . . 833
Workstand . . . 636

BASIN
Covers . . . 2630
Fittings . . . 2630
Gaskets . . . 2723

BASINS,
Drum . . . 1864
Radon . . . 2630
Sewage . . . 2630
Sump . . . 2630

BASKET TRUCK
Casters . . . 1195, 1197-1199, 1201-1206, 1209-1213
Lids/Covers . . . 1160
Liners/Bags . . . 1172

BASKET TRUCKS . . . 1162, 1172

BASKETBALL EQUIPMENT . . . 1478, 1481

BASKETS,
Bicycle . . . 1126
Blast Cabinet . . . 2402
Cleaning . . . 1297
Dipping . . . 1297
Display . . . 1332
Grocery/Shopping . . . 1171
Interceptor . . . 2732
Parts . . . 1297, 1299
Pool Strainer . . . 2641
Sink Strainer . . . 2723-2724, 2727
Slatwall . . . 1332
Spray Bottle . . . 1525
Stacking . . . 1299
Storage . . . 1332
Wire . . . 1297, 1299, 1525

BAT CONTROLS . . . 1020

BATH
Mats . . . 1472-1473
Towels . . . 1472

BATHROOM
Baby Changing Stations & Accessories . . . 1495
Cabinets . . . 1495
Cleaners . . . 1503-1504, 1510-1511, 1513, 1515, 1519-1523, 2446
Cleaning Machines . . . 1578
Disinfectants . . . 1503-1504, 1510-1513, 1517, 1521-1523, 2446
Fans . . . 2942-2945, 2947-2948
Faucets . . . 2733-2739, 2741-2742, 2760
Heaters . . . 2942-2943, 3071, 3073-3075
Mirrors . . . 1495, 2760-2761
Rugs . . . 1473
Scales . . . 1474
Shelves . . . 2760-2761
Sinks . . . 2725-2728, 2760
Stall Components . . . 2761-2762
Ventilators . . . 2942-2945, 2947-2948

BATHS,
Lab . . . 639-640

BATHTUB
Drains . . . 2723
Seats . . . 2746
Spouts . . . 2745-2746, 2748

BATONS . . . 1906

BATTERIES,
2-Way Radio . . . 2024-2025, 2027-2032
AA . . . 532-533
AAA . . . 532-533
AAAA . . . 532
Aerial Lift . . . 1033
Alarm . . . 535, 1996, 2051, 3011
Alkaline . . . 532, 534, 1780
Backup . . . 213-214, 423, 429, 534-535, 2621
Barricade . . . 534
Button-Cell . . . 534
C . . . 532-533
Camera . . . 534, 606, 614, 2048
Carbon Monoxide Detector . . . 532
Carbon Zinc . . . 534
Coil Cleaner System . . . 3011
Coin-Cell . . . 534
Cordless Tool . . . 381, 665, 667, 672-674, 681, 686, 689-690, 692-694, 696, 724, 986, 988, 1004, 1569, 1571, 2135, 2496, 2800
D . . . 532-533
Deep Cycle . . . 535, 2621, 3011
Defibrillator . . . 534, 1838
Exit Lighting . . . 423, 429, 535
Flashlight . . . 532-534
Fluorescent Fixture . . . 423
Gas Detector . . . 1777-1780
Grease Gun . . . 933
Hearing Aid . . . 534
Keyless Entry . . . 534
Label Machine . . . 368, 1928
Lantern . . . 534
Lead Acid . . . 429, 535, 3011
Leak Detector . . . 1777
Lift . . . 1033
Lithium . . . 532-534, 603, 606, 665, 667, 674, 681, 686, 689, 692, 694, 986, 988, 1004, 1033, 1571, 1764-1765, 1768, 1777-1780, 2024, 2027-2032, 2135, 2496, 2683, 2800
Lock . . . 534, 1976, 1996
Medical Device . . . 534
Meter . . . 362, 533, 557-558, 629, 2683
Multimeter . . . 533
Nickel Cadmium (NiCd) . . . 429, 933, 2038, 2496
Nickel Metal Hydride (NiMH) . . . 362, 381, 533, 558, 1765, 2027-2031
Oscilloscope . . . 558
Photo/Electronics . . . 532-534
Pool Lift . . . 1481
Public Address . . . 2038
Pump . . . 2621
Relay . . . 224
Remote Control . . . 532
Respirator . . . 1764-1766, 1768, 2407
Security . . . 534
Silver Oxide . . . 534
Smoke Detector . . . 532
Standby Pump . . . 2621
Thermal Imager . . . 603, 606, 613-614
UPS . . . 213

BATTERY
Acid . . . 2621
Backups, UPS . . . 209, 213-214
Bags . . . 948
Boosters . . . 925-928
Boxes . . . 924
Cables & Cable Accessories . . . 666, 847, 923-924, 965
Caps . . . 923-924
Carriers . . . 922
Disconnect Switches . . . 924
Fasteners . . . 924
Grounding Straps . . . 924
Harnesses . . . 2051
Jumpers . . . 927-928
Kits . . . 3011
Lifting Beams . . . 1061
Lugs . . . 924
Maintenance . . . 922
Pliers . . . 922
Recharge Cords . . . 361
Recycling Kits . . . 511, 533
Shells . . . 362, 2024
Terminals & Accessories . . . 922, 924

BATTERY CHARGERS,
2-Way Radio . . . 2024-2025, 2028-2032
12-Volt . . . 209, 667, 674, 681, 686, 925-928, 3011
24-Volt . . . 209, 925-928
Automatic . . . 209, 927
Automotive . . . 209, 925-929, 949
Booster . . . 925-928
Camera . . . 606
Cell Phone . . . 361, 533, 949, 1570
Coil Cleaner System . . . 3011
Cordless Tool . . . 381, 665-669, 671, 673-674, 676, 678-679, 681, 683, 686-687, 689-690, 692-694, 853, 933, 986, 988, 1004, 1570, 1573, 2135, 2496, 2498, 2800
Flashlight . . . 533
Gas Detector . . . 1777, 1779-1781
Label Printer . . . 1928
Lithium . . . 533, 603, 606, 667, 670, 674, 681, 686, 690, 927-928, 986, 2135, 2498
Meter . . . 362
Multivoltage . . . 667, 925-928
Nickel Cadmium (NiCd) . . . 667, 671, 933, 2496
Nickel Metal Hydride (NiMH) . . . 533, 667, 671
Respirator . . . 1764-1766, 2407
Solar . . . 927
Thermal Imager . . . 603, 606
Trickle . . . 925-927
USB . . . 361
Vacuum Cleaner . . . 1569-1570

BATTERY TESTERS . . . 626, 629, 921-922

BEACONS,
Audible Signal . . . 279
Flashing . . . 972-973, 1888
Indicator . . . 278-280, 1885, 1887

BEAD
Baths . . . 639
Dispensers . . . 1628

BEADS,
Dry Bath . . . 639
Glass . . . 2404
Tire Balancing . . . 952

BEAKERS . . . 652, 655

BEAM
Clamps . . . 316, 318-319, 321, 1061, 1065, 1092, 2828-2829
Lifters . . . 1061, 1065
Scales . . . 1425, 1477
Trolleys . . . 1057, 1060-1061, 1792

BEAMS,
Decking . . . 1106
Pallet Lifter . . . 1061
Pallet Rack . . . 1227-1228
Spreader . . . 1061

BEARD COVERS/RESTRAINTS . . . 1709, 1731

BEARING
Assemblies, Pump . . . 2658
Balls . . . 2190
Cabinets . . . 1305
Cones, Tapered Roller . . . 138
Cup Installers . . . 912
Cups, Tapered Roller . . . 138
Drivers . . . 912, 917
Grease . . . 899, 2450-2453
Grease Packers . . . 934
Heater Raising Blocks . . . 145
Heaters . . . 145
Lubricants . . . 898-899, 901, 2438, 2443-2445, 2450, 2452-2457
Protectors . . . 17
Pullers . . . 912-916
Race and Seal Installation Kits . . . 912, 917
Repair Kits . . . 2968
Splitters . . . 912-913
Testers . . . 568

BEARING SEPARATORS . . . 912, 915

BEARINGS,
Ball . . . 133-138, 140-142, 2190
Blower . . . 136, 2981
Bronze . . . 133, 143-145
Double-Row . . . 140
Eccentric Lock . . . 134-136
Flanged . . . 133-137, 140, 144, 1111
Food-Grade . . . 137, 140
HVAC . . . 134-136
Insert . . . 136-138
Metric . . . 140-143
Motor Ball . . . 140-141
Mounted . . . 133-137
Needle Roller . . . 142
Nickel-Plated . . . 136
Open . . . 141
Pillow Block . . . 133-137
Plastic . . . 133, 143
Precision . . . 140-141
Pump Seal . . . 2658
Radial . . . 140-141
Rigid . . . 133
Roller Conveyor . . . 1111
Rubber Mounted . . . 136
Self-Aligning . . . 133-135, 137, 140, 2981
Set Screw Lock . . . 134-137
Single-Row . . . 140-142
Sleeve . . . 143-145
Spherical . . . 143
Stainless Steel . . . 134-135, 137, 140, 1124
Tapered Roller . . . 138
Thrust . . . 142
UHMW-PE Plastic . . . 133, 143
Washdown . . . 133, 136-137, 143

BED
Casters . . . 1204-1205, 1209-1214
Frames & Accessories . . . 1470
Liners . . . 907
Pillows . . . 1467
Protectors . . . 1469
Sets . . . 1470
Shakers . . . 2036
Sheets . . . 1468

BEDBUG PEST CONTROL . . . 1022-1023, 3083

BEDPAN WASHER VALVES . . . 2751

BEDS . . . 1471, 1823

BEDSPREADS . . . 1467

BELLS,
Alarm . . . 198, 1375, 1885-1886, 2052
Door . . . 2034, 2053

BELT
Barriers . . . 2042-2043
Clips . . . 1798, 1964, 1966, 1970, 2024, 2029-2032
Connectors . . . 1115
Conveyors . . . 1115
Dressings . . . 2440-2441
Grinders . . . 2360
Rules . . . 105

Tensioners 96, 120-121, 1115
Tools 96, 919, 1115

BELT SANDERS,
Air 2510
Electric 725, 2360, 2362

BELTS,
Abrasive 2364-2365
Air Compressor 2567
Back Support 1706
Cogged 97, 99, 103-105
Conveyor 96, 108, 1114-1115
Drive 96-108, 2567
Fan 96-105, 2567, 2998
File Sanding 2364-2365
Gear 106-107
Leather 757
Lifting 1706
Oil Skimmer 2462
Padded 755, 757, 950
Positioning 1798
Rotary Screw 2567
Round 96, 108
Safety 1798
Surface Conditioning Abrasive 2364-2365
Suspender 1706
Timing 106-107
Tool 755, 757, 859, 1798
Tooth 106-107
V- 96-105, 2567
Vacuum Cleaner 1568, 1575
Wedge 96
Work 755, 757, 859, 1592

BENCH
Back and End Stops 1316-1317
Buffers 2359
Drill Presses 2344-2345
Grinder Brushes/Wheels 862, 2374, 2394-2398
Grinder Stands 2359
Grinders 2359-2361
Legs 1254, 1316-1319
Levels 2336
Lights 451, 515-517, 1320, 2340, 2359
Milling Machines 2344
Presses 2470
Risers 1319
Safety Cans 1875
Sanders 2361-2362
Saws 733
Scales 644, 1425-1430, 1455
Smoke Absorbers 233
Squeegees 1546-1547, 1550
Tops 1254, 1316, 1325
Vises 831-833, 874

BENCHES,
Adjustable . . . 886, 1316-1317, 1319-1323, 1325
Cabinet 749, 1149, 1169-1170, 1325-1326
Cafeteria 1340
Ergonomic 1316-1317, 1319-1323
Folding 1325, 1340
Maintenance . . . . . 1149, 1169-1170, 1263, ... 1316-1317, 1319, 1321-1323, 1325
Outdoor 1309, 1483
Repair . . . . . 749, 1149, 1169-1170, ... 1318-1319, 1325-1326
Shower 2746
Steel 1316, 1319, 1321-1325
Storage 1309
Technical Work 1318-1322
Weight Training 1477
Work . . . . . 749, 1149, 1169-1170, 1263, ... 1276, 1316-1326, 1399

BENDERS,
Mechanical 850
Pipe 850, 2469
Rebar 716
Sheet Metal 816, 2355
Tubing 868, 2356, 3010

BENDS,
Brass Pipe 2722, 2724
Copper Pipe/Tubing 2796, 2798
Plastic Pipe 2722

BERMS,
Spill Control 1525, 1859-1860, 1862

BEVELS,
T- 884

BEVERAGE
Coolers 1462-1463, 1825-1827
Cup Holders 950, 1826
Cups 1431-1433, 1444-1445, 1825-1826
Dispenser Stands 1439, 1825
Dispensers 1439, 1443, 1462-1463
Filters 2703-2706, 3004
Hoses 2609
Mixes 1437, 1825
Openers 814, 1454, 1964
Pump Motors 26

BEVERAGES 1825

BIB OVERALLS
. . . . . 1707-1708, 1719-1720, 1726-1730, 1740

BIBBS,
Hose 2744, 2911-2912

BICYCLE
Baskets 1126
Storage 1482

BICYCLES,
Industrial 1126
Stationary Exercise 1477

BIFOCALS 1662-1664, 1667

BILLIARD EQUIPMENT 1479

BIN
Cabinets . . . . . 745, 1266, 1277-1278, 1280, ... 1282-1285, 1287-1288, ... 1290-1291, 1303, 1305-1306
Carts 1280-1281, 1292-1293, 1297
Clips, Hanging 1329
Cups 1283-1284, 1289, 1294
Dividers . . . . . 1279-1280, 1282, ... 1284-1291, 1294, 1307
Dollies 1192, 1281, 1287, 1290, 1300
Frames 1289
Hanging Brackets 1289
Holders 1281-1282, 1320-1321
Label Holders 1282-1284, 1294
Lids 1282, 1292-1295, 1301, 1306
Liners 1410, 1559-1562
Mounting Accessories 1280-1281, 1286
Rack Casters 1281-1282, 1289
Rack Conversion Kits 1281
Rack Locking Rods 1289
Rails 1280-1282, 1320-1321
Shelves 1277
Shelving Units . . . . . 745, 1280, 1282-1285, ... 1287-1291, 1297, 1306-1307
Storage Racks . . . . 745, 1280-1285, 1287-1291, ... 1297, 1305-1307
Systems . . . . . 745, 1277-1278, 1280-1285, ... 1287-1291, 1294, 1303, 1306
Windows 1282, 1287

BINDER
Chains 1072, 1107
Clips 829-830, 1359
Dividers 1361-1362
Holders 1942
Pages 1361

BINDERS,
3-Ring 1361, 1382
Chain 1107
Load 1107
Reference 1942
SDS 1942

BINDING
Barrels 2103
Posts & Screws 561, 2103

BINOCULARS 2041

BINS,
Cart 1148
Compartmental 1285, 1302-1303, 1347
Conductive 1286, 1302
Deep 1347
Dish 1295, 1447
Dissipative 1286
Drawer 1290-1291, 1303, 1306
Food Grade . . . . . 1280, 1287-1288, ... 1300-1301, 1451
Hanging . . . . . 1279-1280, 1282, 1286, 1289, ... 1329, 1331-1332
Healthcare 1281
Heavy-Duty 1280, 1282, 1286-1288, 1294
Hopper . . . . . 1280, 1282-1284, ... 1286-1289, 1301, 1457
Mobile 747, 1280, 1287, 1289, 1451
Mounted . . . . . 1286, 1288, 1290-1291, ... 1306, 1329, 1331
Parts Storage . . . . . 745, 1277-1280, 1282-1291, ... 1294, 1303, 1305-1307, 1329, 1331
Pegboard 1329, 1331
Pigeonhole 1306-1307
Plastic . . . . 745, 1148, 1277-1280, 1282-1291, ... 1293-1294, 1297, 1300-1301, ... 1303, 1307, 1329, 1331, 1457
Refuse 1148, 1485, 1552-1558
Revolving 1305, 1307
Salt 994
Shelf . . . . . 1279-1280, 1282-1288, ... 1290-1291, 1294
Stacking . . . . . 1279-1280, 1282, ... 1284-1289, 1292-1294
Steel . . . . . 1280, 1284, 1289, 1291, ... 1301, 1306-1307
Storage . . . . 745, 747, 1277-1280, 1282-1294, . . . 1302-1303, 1305-1307, 1329, 1331, 1451
Wall-Mount 1279-1282, 1286, 1289

BIODEGRADABLE
Cleaners 939, 1503, 1513, 1517, 2446
Lubricants . . . . . 898, 2438, 2441, 2454-2458, ... 2460-2461, 2568
Soaps 1496-1498
Trash Can Liners 1562

BIOHAZARD
Bags 1562
Kits 1768, 1836
Labels 1937
Waste Cans 1836
Waste Mailers 1836

BIOMETRIC
Locks 1973
Safes 1968

BIRD CONTROLS 1018-1020

BIRDSCREENS
. . . . . 2939-2941, 2980-2982, 2984-2985, 2987

BISCUIT CUTTERS 688

BIT
Holders . . . 698-701, 703, 768, 775-776, 801-802
Inserts 802
Quick Disconnects 703
Sets, Rotary Tool 2300
Sets, Router 2297

BITS,
Anchor 711, 2161
Auger 705
Carbide 711, 714, 731, 2161, 2297
Clutch 699
Concrete 709, 711-716, 2161, 2166
Coring 712-714, 716
Cut-Out Tool 724, 729
Cutter 713, 816
Drill (See Drill Bits)
Drive . . . . . 698-703, 714, 758-759, 762, ... 765, 767-771, 776, 779-780, 854, 860
Drywall 698, 729
ECX 801
Engraving 724
Flush Trim Router 731, 2297
Hammer Drill . . . 709, 711-714, 716, 2161, 2166
Hex . . . . . 698-702, 715, 758, 762, 765, ... 768-770, 774-776, 779, 800-802
Impact Insert 700, 802
Impact Power 700
Masonry 709, 711-716, 2161, 2166
Percussion . . . . . 709, 711-715, 862, ... 2166, 2512, 2514
Phillips . . . . . 696, 698-700, 702, 775-776, ... 800-803, 857, 2109
Pozidriv 699-700, 702, 801-802
Robertson . . . . . 696, 698-700, 702-703, ... 801-802, 857, 2109
Rotary Cutter 724, 729
Rotary Hammer 711-714, 2166
Rotary Tool 724, 729, 2298-2300, 2392
Router 731, 2297, 2299
Screwdriver . . . . . 696, 698-702, 767-771, ... 775-776, 800-803, 857, 2109
SDS-Max Shank 712-713
Security 699, 702, 802
Ship Auger 705
Slotted Screwdriver . . . . . 698-700, 702-703, ... 767, 769, 775, 800-803, 857
Socket Screwdriver 702, 767-771, 801-802
Spanner 801
Spline Shank 699, 714
Square 696, 698-700, 702, 800-802, 857
Square-Recess 699-700, 702, 801-802
Star 699, 801-803
Straight Router 731, 2297
Torq-Set 702, 801
Torx 698-700, 702-703, 801-803, 857
Tri-wing 801

BLACKTOP
Applicators/Coaters 1544
Cutters 673, 713, 715, 717-718, 2514
Lutes 999
Rakes 999
Removers 1519
Repair Materials & Maintenance . . . 1630-1633
Saws & Saw Blades 673, 717-718, 720
Sealants 1631-1632, 2230-2231
Tampers 715

BLADDER
Accumulators 2494
Control Pads 1494
Tanks 1824, 2656

BLADDERS,
Drain Cleaning 2437, 2751
Spill Control 1865

BLADE
Disposal Containers 809
Welders 2351

BLADES,
Air Circulator 2951
Cable Stripper 366, 846
Combination Square 2334
Concrete Trowel 892
Crimper 853
Cutter . . . 671, 719-721, 724, 809-811, 814, 2618
Deburring Tool 2401
Double Edge 809, 811
Drum Deheader 1140
Fan 2940, 2950-2951
Hook 724, 809
Hose Cutting 735
Knife 809-811, 814
Oscillating Tool 724
Planer 725
Razor 809
Rotary Cutter 729, 814
Saw (See Saw Blades)
Scraper 889, 891, 1548, 1551
Single Edge 809
Snap Hook 809
Squeegee 1547, 1550-1551, 1581
Stripper 366, 846
Utility Knife 809-811
Windshield Wiper 947

BLANKET
Boxes....1711
Warming Cabinets....638

BLANKETS,
Barrel....1141
Bed....1467
Electric....949
Erosion-Control....1012
Fire....1835
First Aid/Survival....965, 1823, 1833, 1835, 1837
Insulating....1141, 1711
Noise-Absorbing....1889, 2834
Protective....1410, 1711
PVC....850, 1711
Rescue....1823, 1833, 1835, 1837
Welding....2409, 2431

BLANKING KITS,
Valve....2542-2544, 2549-2550

BLANKING PLATES....2542-2544, 2550

BLANKING PLUGS,
Push-Button....248

BLANKS,
Alloy Steel....2186
Aluminum....2184-2185
Carbide Tool....2253
Carbon Steel....2186-2187
Conduit....308-309, 320
Jack Box....356
Jack Module....356
Key....1964-1965
Stainless Steel....2189-2190
Tool....2253
Tool Steel....2187
Voice/Data....304, 356

BLAST CABINETS & ACCESSORIES
....2402-2403

BLASTING MEDIA....2404

BLEACH....1504, 1510, 1512-1513, 1516-1517

BLEACHERS....1482

BLIND RIVETS....2131-2134

BLINDS,
Window....1484

BLOCK
Fillers....1596, 1598
Saws....717

BLOCK AND TACKLES....1059

BLOCKS,
1-2-3....2339
Circuit Breaker Handle....199
Contact....160, 162-163, 165, 169-174, 176, 240, 244-249, 251, 253-254, 256-257, 264-265, 268-269, 288, 298
Dry Bath....639
Fuse....182, 186, 394, 929
Gage....2338-2339
Hand....911, 2366-2367
Para....1505
Parking....1131
Pipe/Duct Support....2825
Power Distribution....393
Pulley....1084, 1090, 1808
Sandpaper....911, 2366-2367
Snatch....1090
Step....2317
Terminal....394-395
Toilet/Urinal....1505
Trailer....1130, 1173
Wall Deodorizer....1505
Wheel....1130, 1173
Wire Rope....1084, 1090
Wiring....355

BLOOD CLOTTING AIDS....1829, 1834

BLOODBORNE PATHOGEN CLEANUP KITS
....1836

BLOW GUN
Adapters....962, 2515, 2518
Extensions....864, 2515, 2518
Kits....962, 2515, 2518
Nozzles....2515, 2518, 2582
Shields....2515

BLOW GUNS,
Air....2437, 2515-2518, 2582

BLOW TORCHES
....1003, 2430-2431, 2433-2434, 2436-2437

BLOWER
Air Duct Boosters....2949, 3103-3104
Bearing Kits....2981
Brackets....2976
Exhaust Duct....1784-1785
Fan Switches....167, 2929, 2944, 2946, 2949, 3046, 3077
Filter Covers....2584
Filter Elements....1784
Filters....2575-2576, 2584, 2989
Fishing Systems....849
Grease....2585
Guards....2940-2941, 2980-2982, 2984-2985, 2987
Heat Slingers....2983
Hoses....988, 2610
Housing Supports....2976
Intake Duct....1784-1785, 2408
Kits....988, 1784-1785
Motors....8, 27, 35-36, 38, 40-57, 59-64
Relays....3035
Replacement Parts....2944, 2982-2985, 3045
Shafts....2981
Switches....174
Vibration Isolators....1221-1222, 2983, 2986
Wheel Shaft Protectors....913
Wheels....2980, 2983-2985, 2988

BLOWERS,
(See Also Air Circulators, Fans, and Ventilators)
Air Conditioner....2975-2979, 2985
Air Curtain....2969
Backpack....988
Backward Incline....2982, 2986-2987
Belt-Drive....2975, 2977-2987
Brushless....38
C-Frame Centrifugal....2975
Confined Space....1784-1785
Cordless....670, 679, 688, 988
DC....38, 2972-2974
Direct-Drive....2946-2948, 2972-2976, 2978, 2980, 2985-2987
Double Inlet....2976-2977, 2979
Draft Inducer....3103-3104
Duct....1784, 2972-2987
Electric....988, 1784-1785
Electronic Equipment....38, 1354
Equipment-Cooling....302, 2926-2927
Flange-Mount....2972-2973
Floor....2989
Forward Curve....2972-2977, 2979-2981, 2985, 2987
Furnace....2972-2977, 2979, 3103-3104
Gasoline....988, 1784-1785
Hand....1354
Handheld....679, 688, 988
Hazardous Location....1784-1785, 2986-2987
Heating/Cooling....2972-2979, 3085
High-Pressure....2979, 2983-2985
High-Temperature....2973, 3103
In-Line....2944, 2978-2979, 3104
Induced Draft....3103-3104
Industrial....2977-2987
Kitchen Exhaust....2986-2987
Leaf....670, 679, 688, 988
Low-Profile....2975
Permanent Split Capacitor....2972-2975
Plastic....2987
Pneumatic....1783
Portable....670, 679, 688, 988, 1354, 2989
Positive Displacement....2585
Radial Blade....2983-2985
Regenerative....2584
Respirator....1764-1765, 2407
Shaded Pole....2972-2973, 2975
Single Inlet....2975, 2980-2987
Snow....991-992
Spark-Resistant....2986-2987
Squirrel Cage....2972-2973, 2975-2977, 2979, 3103-3104
Transflow....2975
Venturi....1783
Walk-Behind....988

BLUEPRINT FILING SYSTEMS....1345, 1347

BNC
Adapters....360, 561
Cable Couplings....351, 355, 360
Terminators....351

BOARDS,
Back....1822
Bulletin....1369-1370, 1372-1373
Circuit Breaker Lockout....1952
Cutting....2210
Dry-Erase....1337, 1352, 1358, 1367-1371
Fabric....1372
Foam....2198-2200, 2209
Insulation....2836-2837
Ironing....1475
Kneeler....892, 1705
Letter....1369, 1372
Lockout....1950-1953
Message....1337, 1352, 1358, 1367-1373
Mineral Wool....1883
Planning....1369-1371
Right-to-Understand....1942
Safety Tag....1939, 1950-1952
SDS (Safety Data Sheet)....1942
White....1337, 1352, 1358, 1367-1371

BODY
Belts....1798
Fillers, Auto....905-906
Harnesses....1793-1798, 1806
Moisturizers....1498
Protectants, Auto....907
Repair Tools, Auto....827-828, 2511-2512
Wash....1496-1498

BOILER
Brushes....3095
Expansion Tanks....2661
Feed Pumps....2652, 2661, 2698
Gauges....577
Hot Water Tanks....2661
Scale Inhibitors....2707, 3011-3012
Testers....617
Thermometers....589
Thermostats....2658, 3025-3026, 3030
Valves....2889, 2893-2895

BOILERS....3089

BOLLARD COVERS....1132

BOLLARDS....463, 1132, 1134

BOLT
Assortments....2056
Caps....2757
Cutters....671, 817
Dies....2262, 2265, 2276
Extractors....2260
Gauges....2054
Seals....963
Snaps....2019
Threadlockers....905, 2222, 2224

BOLTS,
Anchor....1227, 2162-2164, 2166-2167
Architectural....2103
Barrel....2103
Button-Head....2103
Carriage....1106, 2072
Combo-Head....2103
Concrete....2147
Door....1994
Elevator....2073
Eye....1069, 2076-2078, 2317
Flange....2063
Flat-Head....2073, 2103
Freight Car....2073
Heavy Hex....2063
Hex-Head....2055-2056, 2063, 2070-2071, 2103
Hook....2020
Hydraulic Valve....2477
Latch....1993, 1996
Metric....2068, 2076, 2123-2124
Partition....2103
Plow....991
Round-Head....2072
Self-Sealing....2069
Sex....2103
Shoulder....2123-2125
Stove....2102
Structural....2071
Swing....2317
Tap....2056
Toggle....2165, 2168
Toilet....2757
Truss....2103
U-....2074-2075, 2831
Valve Assembly....2477
Wood Screw Eye....2077

BOND WIRE....1869, 1876

BONING
Hooks....1453
Knives....1452-1453

BONNET CLEANERS....1517, 1520, 1522

BONNETS,
Carpet....1583
Polishing....723
Tubing Seal....2853

BOOKCASES....1326, 1348

BOOKLETS,
Right-to-Understand....1942
Safety Training....1941-1943

BOOKS,
Automotive Reference....963
Business Record....963
Carpentry/Construction....1943
Chemical/Hazmat....1943
Code....2054
Confined Space Entry....1943
Electricity Reference....2054
Employee Development....1943
Engineer's Reference....2054
Fasteners Reference....2054
First Aid/Medical....1832
Forklift Safety....1943
Investigation Training....1943
Label....373
Lockout/Tagout....1943
Right-to-Understand....1942
Safety Orientation....1943
Security....1943
Wire Marker....373

BOOMERS....1107

BOOMS,
Fork Truck....1176, 1180, 1183
Lift....1176, 1180, 1183
Sorbent....1846, 1848-1855

BOOSTER
Cables....923, 965
Guns....934
Pump Replacement Parts....2633, 2637, 2650
Pumps....2633, 2642-2644, 2648, 2650-2653, 2657, 2698

BOOSTERS,
Battery....925-928
Octane....900
Pressure....2633, 2642-2645, 2648-2653, 2691

BOOT
Brushes 1757, 1890
Covers 1623, 1732, 1737-1738
Dryers 1757
Liners 1757
Scrapers 1757, 1890
Sealants 1757
Socks 1757
Waterproofing Spray 1757

BOOTHS,
Paint Spray 1624

BOOTS,
Athletic 1750-1751, 1754
Capacitor Terminal 65-66
Chain Saw 1742
Chemical-Resistant . . . 1741-1743, 1745-1746, 1748-1749, 1753-1754, 1814
Composite-Toe 1741, 1743, 1748-1749, 1751, 1753-1754, 1814, 1816
Connector 337-338, 389
Dielectric 1709, 1744
Firefighting 1816
Hazardous Material 1742, 1746
Hiking 1752
Knee 1741-1743
Leather 1748-1754, 1814, 1816
Miner's 1741-1743
Over-the-Shoe 1709, 1744-1747
Over-the-Sock 1741-1743, 1745-1746, 1748-1754, 1814
Plug 337-338
Puncture-Resistant 1741, 1748, 1816
Push-Button 262
Rain 1741, 1745
Rotary Switch 262
Slip-Resistant 1709, 1741-1746, 1748-1749, 1752-1754, 1814, 1816
Steel-Toe 1741-1744, 1748-1750, 1752-1754, 1816
Switch 260, 262, 290
Tactical 1814
Waterproof/Water-Resistant 1741-1749, 1752-1754, 1814, 1816
Winter 1741-1743, 1745

BORE
Gages 2336
Polishers 2371, 2381

BORESCOPE ACCESSORIES . . . 606, 616-617

BORESCOPES . . . 543, 616-617, 672, 684, 866

BORING
Cutters 740
Head Holders 2346
Machines 2344

BOS'N CHAIRS 1787, 1797

BOTTLE
Baskets 1525
Brushes 1546-1547
Caps 650, 652
Filling Stations 2719
Jack Presses 2357
Jacks 941
Openers 814, 1454, 1964
Racks 652
Shippers 1402
Spouts 930
Stoppers 652
Top Dispensers 653
Top Filters 661

BOTTLED
Water 1826
Water Coolers & Replacement Parts 1827, 2721

BOTTLES,
Amber 652-654
Beaker-Style 652
Chemical 633, 652-654, 1520, 1522, 1525, 1533, 1536, 1876
Color-Coded 654
Dispensing 653-654, 1137, 1525, 1876
Dropper 653-654
Glass 633, 652, 654, 656
Graduated 652-654
Narrow-Mouth 652-654, 656, 1137
Plastic . . . 652-654, 656, 1137, 1522, 1525, 1533
Rectangular 1137
Safety-Coated 652
Sampling 633, 652-653
Shipping 653
Spray 1520, 1522, 1525, 2457
Square 652-654
Squeeze 654, 1876
Tin-Plated Steel 1137
Wash 654
Water 633, 654, 1137, 1444
Wide-Mouth 652-654, 656

BOTTOMS,
Door 1124, 2000

BOUFFANT
Caps 1709, 1731, 1738
Dispensers 1732

BOW RAKES 999

BOWL
Brushes & Replacement Parts 1543
Cleaners 1504, 1519-1520, 1522
Mops 1543

BOWLS,
Filter 2602
Food Service 1436, 1445, 1456, 1458

BOX
Beam Levels 882
Cutters 808, 810-813, 891, 1401, 1417
Dividers 1289, 1291, 1294
End Wrenches . . . 785, 787-794, 796, 854, 859, 861, 863, 919, 1009, 2751, 3010
Fans 2923
Filters 3054-3056, 3059
Lockers 1253, 1256-1261
Panels 297
Sealing Tape 1384, 1395, 1397-1398
Spring Encasements 1469
Springs 1470
Supports 317
Track Hangers and Brackets 1092-1093
Tracks 1093
Wrenches 787-790, 794, 796, 814, 859, 861, 3010

BOXES,
2-Way Radio Call 2034
Alarm 1885, 2052
Back 310, 342, 1885, 2052
Battery 924
Blanket 1711
Breaker 189-192, 197
Breather 1770-1771
Cardboard 1400-1401
Cash 1968
Cluster Mail 1969
Compartment 745, 1302-1303, 1305
Component 561
Conduit 72, 74, 85, 95, 308-309, 311-312, 320-321
Corrugated 1381, 1400-1402
Drop 1350, 1967
Dust Mask Storage 1758
Electrical (See Electrical Enclosures)
Emergency Alarm 2052
Emergency Key 1966-1967
Fiberglass 298-300, 1287, 1293
File 1381
Fire-Rated 312
Gang 304-310, 748-749
Glove 635
Group Lockout 1953
Insulated Shipping 1402
Junction 292-296, 299, 308-309, 311-312, 316, 320, 440
Locking 1303, 1350, 1967-1968
Lockout 1948-1949, 1953
Mail 1349, 1969
Motor Control 2655
Outlet 305-306, 308-312, 320-321, 340, 342, 401, 412, 449, 462
Pallet 1400
Panelboard 189-191, 197
Parts Storage 745, 747, 1292-1296, 1298, 1302-1305
Pin and Sleeve 342
Pump Control 2655
Push-Button 240, 248-249, 258, 275
Raceway 304-307, 356
Security 1350, 1968
Shipping 994, 1292-1293, 1295-1296, 1298, 1300-1301, 1304, 1400-1402
Slide 643
Spider 413
Stock 1400-1402
Storage 994, 1286, 1292-1298, 1302-1304, 1309, 1381
Submersible Pump Control 2655
Suggestion 1350
Surface 304-307, 355-356
Switch 163, 167, 305-306, 308-311, 320
Temperature Control 229
Temporary Power 413
Tool 741-743, 745-753, 873, 886, 1303-1304
Tote 994, 1282, 1284, 1286, 1292-1298, 1304, 1456
Truck 750-753, 1304
Utility 747, 1296, 1302-1304
Valve 2907
Voice/Data 304-308, 311-312, 320, 355-356
Weatherproof Electrical 292-295, 297-300, 309-311, 320, 462

BRACES,
Back Support 1706
Broom 1542
Cantilever 1238
Corner 1105, 2019
Floor Brush 1542
Joist Support 1126
L- 2019
Seismic Sway 2168
T- 2019
Telescoping 1126
Wrist Support 1706

BRACKETS,
2-Way Radio 2029
Abrasive Blast Cabinet Gun 2402
Accumulator 2494
Air Circulator 2916-2917, 2920, 2925
Air Conditioner Mounting 2990
Air Deodorizer 1505-1506
Air Line 2586
Air Line Filter . . . 2591, 2593, 2597-2599, 2601
Banding 2535
Bathroom Partition 2762
Blower 2976
Bug Killer Mounting 1021
Cabinet 1870
Cable Carrier Mounting 1884
Cable Tray 293, 307, 317-318, 405, 1884
Capacitor Mounting 65-66
Chock Mounting 1130
Circuit Breaker Panel 198
Clamp 2535
Clevis 2537-2540
Communication 317-319
Condenser Mounting 3091, 3094
Conduit 317-318
Contactor Mounting 173
Conveyor 1111
Door 1123, 1975
Electrical Enclosure 317, 319
Electrical Support 317-319
Encoder 226
Eye 2480, 2537-2538
Filter Housing 2706, 2708
Filter Mounting 2593, 2597-2599, 2601, 2706, 2708
Fire Extinguisher 1880
Flange 2537-2538, 2540-2541
Float 892, 2629
Foot 2538, 2540
Framing 316, 1119, 2019
FRL Mounting 2595, 2598
Gearmotor 72, 74, 85
Handrail 1308, 2006
Heater 3070, 3077-3078, 3081, 3087
Hoist 1054
Hose Reel 1818
Indicator Beacon 278-280
J-Hook Hanger 318
Lift Truck 943
Lighting Fixture 278-279, 317-318, 452, 457-458, 517, 519
Motor 121
Pegboard 1331
Photoelectric Sensor 282-283, 414
Pin Rack Wall 1818
Pole Mount 2535
Pressure Washer 1587
Projection Screen Mounting 1353
Proximity Sensor 282, 284
Pump 2677, 2691
Raceway 305-306
Rail 1119, 1308
Regulator 2594, 2596-2598, 2600-2601
Restroom Stall 2762
SCBA (Self-Contained Breathing Apparatus) Equipment Wall-Mount 1774
Sensor 282-284
Sharps Disposal Container 1836
Shelf 1250, 1383, 1476
Shower 2744
Sign 1916, 1923, 2535
Signal Device 278-280, 1885
Speaker 2023, 2039
Structural Framing 316, 1119, 2019
Television/Security Monitor Mounting 2022
Thermometer/Thermostat Mounting 3035
Tie-Down Strap 961, 1106
Tool Tray 1547
Truck Box 753
Vacuum Cleaner Hanging 1563
Valve 2550, 2883
Vent 3096
Voice and Data Equipment . . . 306, 317-318, 405
Wall Plate 470, 1547
Warning Light 1888
Wire Duct 293
Wire Management 293, 304, 317-319, 405

BRADS 890, 2497

BRAIDS,
Desoldering 232

BRAKE
Bleed Kits 919, 931
Casters 1119, 1195-1214, 1247, 1271
Cleaners 901, 908
Conditioners 899
Controls 95
Covers 95
Fluids 899, 901, 962
Gearmotors 68-71
Grease 899, 2451, 2453
Handles, Linear Motion 1119
Lights 976-978
Slack Adjusters 916
Tools 916, 919, 931
Winches, Manual 1085

BRAKES,
Box and Pan 2355
Motor 51, 95
Sheet Metal 816, 2355

BRASS CLEANERS 910, 1518

BRASS,
Roll & Sheet 2179-2180

BRAZED PLATE HEAT EXCHANGERS . . . 3039

BRAZING
Alloys/Flux/Rods 2432
Hoses & Kits 2436
Nitrogen Regulators 3010
Nozzles 2433
Torch Tips 2431, 2433, 2436-2437
Torches 233-234, 2430-2431, 2436-2437

BREACHING TOOLS 1820

BREAD KNIVES 1452-1453

BREAKER
Bars 768-769, 771-772, 862
Boxes 189-192, 197
Hammers 673, 710, 715
Handle Blocks 199
Lockouts 191, 199, 1945-1946, 1948-1949, 1952
Rating Plugs 196
Trips 198

BREAKERS,
Circuit (See Circuit Breakers)
Pavement 715, 2513
Vacuum 2748, 2903-2904, 2906, 3038

BREAKROOM
Furniture 1444
Supplies 1431-1437, 1440-1441, 1443-1445, 1449, 1458, 1825-1826

BREATHER BOXES 1770-1771

BREATHERS,
Desiccant 1413, 2463
Filter Vent 2463, 2551
Hydraulic 2495, 2576
Lube Pump 2463
Protected Vent 2464

BREATHING EQUIPMENT . . . 1765, 1768-1774

BREWERS,
Coffee 1438-1439

BRICK
Anchors 2165
Hammers 827, 862, 892
Line Winders 892
Saws 673, 717-718
Tool Kits 892
Trowels 862, 892

BRICKS,
Rubbing 892, 2393

BRIDGE PINS 2150

BRIDGES,
Crossover Ladder 1040-1042
Hose and Cable 307, 404-405, 1131
Lighting System Aggregator 470

BRISTLE DISCS 2374

BROACHES 2257

BROILERS 1458

BROOM
Braces 1542
Cabinets 1269, 1272
Handles 1534, 1541-1542, 1546-1547
Heads 1539-1541, 1546-1547
Holders 998, 1543

BROOMS,
Floor 990, 1539-1542, 1546-1547
Fork Truck 990
Snow 948
Water 1594
Whisk 1541

BRUSH
Braces 1542
Cleaners 1613, 1620
Cutters 987, 1007
Extensions 2161
Handle Adapters 1551
Handles 908, 1534, 1541-1542, 1544-1547
Head Replacement Parts 1547
Oilers 2463, 2465
Removal Tools 1007
Wheels 2382

BRUSH HOLDERS,
Conveyor 1117
Tubing 2400

BRUSHES,
Acid 892, 1545, 1547
Adjustable Conveyor 1117
Air 1625
Anchor Hole-Preparation 2161
Angle Grinder 862, 2394, 2397-2398
Artist 1617
Baseboard 1536, 1543
Basting 1454
Battery 922
Bench 908, 911, 1542-1544, 1546-1547
Bench Grinder 862, 2374, 2394-2398
Boiler 3095
Boot 1757, 1890
Bottle 1546-1547
Bowl 1543
Brass 862, 1545, 2395, 2397-2398, 2400, 3095
Can Scrub 1542-1543, 1546-1547
Car Wash 908, 1543
Carbon Steel 724, 1545, 2394-2398, 2400
Carpet Cleaning 1543
Chip 1616
Cleaning 862, 871, 891, 908, 911, 938, 1117, 1532, 1538, 1542-1548, 1578, 1583, 2382, 2394-2398, 2618, 2751, 3095
CNC Machine 2398
Coffee Maker Cleaning 1548
Coil Cleaning 1117, 1546, 3095
Concrete 1544, 1579
Conveyor 1117, 1546
Copper Center 2395
Copper Tubing 871, 2618
Corner 1543
Counter 911, 1543-1544, 1546-1547
Crimped Wire 862, 2395-2398, 3095
Cup 862, 2394-2398
Cylinder 1117
Deck 1544, 1547
Die Grinder 2395-2398
Disc 2398
Dish 1547
Drain 1544-1547, 3095
Dust 911, 1538, 1544-1546, 3095
End 862, 2395-2398
Fitting 871, 1546, 2618, 2751
Flap 724
Flared-End 862, 2396-2398
Floor 1532, 1536, 1542, 1544, 1546-1547
Floor Drain 1544-1545
Floor Machine 1578-1579, 1581-1583
Flue 3095
Flux 1545
Foam 1617
Food-Grade 1454, 1459, 1544-1545, 1547
Glue 1616
Grill 1459, 1548
Grout 891, 1545
Hand 863, 891, 908, 911, 922, 1542-1548, 2398, 2400, 2424, 2618, 3095
Honing 2399
Ink 1403
Lint 1475
Long Handle 863, 1532, 1543, 1546-1547, 3095
Maintenance 863, 891, 908, 911, 922, 1538, 1542-1547, 2424, 2618, 3095
Masonry 892, 1544, 1622
Mini Grinder 2395
Miniature 1617, 2395, 2397
Motor 80-84, 86
Nail 1547
Nylon 891, 938, 1542, 1545, 2161, 2398, 2400, 3095
Oven 1459, 1548
Paint 889, 907, 1616-1617, 1622
Parts 938
Pastry 1454
Pipe Cleaning 871, 1544-1547, 2751, 3095
Pool 1481
Power Tubing 2398, 2400, 2618
Radial Bristle 2382
Radiator 1545-1546, 3095
Refrigerator Coil 3095
Roofing 1544
Rotary 724, 1117, 1578-1579, 1581-1583
Rotary Tool 724
Scraper 1459
Scratch . . . 861, 863, 891, 922, 1459, 1545, 2424
Scrub 1536, 1542-1548, 1579, 1581-1583
Shank 2395-2398, 2400, 2618
Shoe Handle 861, 863
Showerfeed 1581-1583
Small Diameter 2395, 2397
Snow 948
Spoke 1545, 3095
Sponge 1617
Spot 1543
Stainless Steel 922, 1545, 2394-2397, 2400, 2618, 3095
Steel Wire 862, 2161, 2394, 2396-2398, 2424, 3095
Stencil 1403
Strip 1117
Stripping 1579, 1583
Tank 1546-1547
Tape Dispenser 1398
Texture 889, 1544
Tile 891, 1545
Toilet Bowl 1543
Truck Wash 908, 1543
Tubing 871, 1544-1545, 1547, 2398, 2400, 2618, 2751, 3095
Twist Wire 2394, 2398
Utility 863, 891, 908, 922, 1459, 1543-1548, 2424
Vacuum Cleaner/Steam Cleaner 1565, 1568, 1570, 1572, 1575
Valve 1544, 1546-1547
Vehicle 908, 1543, 1545
Wall Cleaning 1532, 1538, 1544, 1547
Wallpaper 1622
Wand 1546
Wheel 862, 908, 2394-2398
Window 1532, 1543
Wire 862-863, 871, 891, 922, 1545, 1548, 2161, 2394-2398, 2400, 2424, 2618, 3095
Wire Cup 862, 2394-2398
Wire Wheel 862, 2394-2398

BRUSHLESS BLOWERS 38

BUBBLE-PADDED WRAP 1401, 1412

BUBBLERS 2719-2720, 2731, 2764

BUCKET
Dollies 1142
Forks 1177
Lids 1136, 1547, 1621
Organizers 754-757, 1550
Tool Caddies 1550
Tool Organizers 756-757
Wringer Combos 1528-1529, 1534

BUCKETS,
Chain 1055
Cleaning . . . 1136, 1528-1529, 1534, 1546-1547
Double 1528
Drain/Interceptor 1857
Hoist 859
Mixing 892
Mop 1136, 1528-1529, 1534, 1546-1547
Oval 1528
Paint 1621
Plastic 1136, 1528-1529, 1534, 1547
Round 1136-1137, 1456, 1528, 1547
Square 1136
Steel 1136, 1456, 1528
Tool Lifting 859

BUCKLES,
Banding/Strapping 1103, 1421, 1423-1424, 2535

BUDDY JUGS 1533

BUFFER
Cones, Tire 954
Pad Adapters 911
Solutions 634

BUFFERS,
Bench 2359
Cordless 678, 684
Electric 724, 2359
Floor 1578-1579
pH 634

BUFFING
Pads 911, 1585-1586
Wheels 724

BUG CONTROL . . . 908, 1017, 1021-1023, 1829

BUILDER'S RODS 881

BUILDING WIRE 343-344

BUILDINGS,
Guard 1311
In-Plant 1311-1312
Storage 1309-1310, 1866, 1873

BULB
Base Removers/Changers/Crushers 511
Exchange Pliers 839
Holders 462-463, 465
Modules 242, 244-246
Recycling Kits 511-512
Safety Sleeves 481
Shields, Abrasive Blast Cabinet 2402
Starters 465
Testers 625

BULBS,
3-Way 487-488
Aircraft 493-494, 497, 499-501, 503
Appliance 482, 487, 489, 497-499
Audiovisual 488, 495, 501
Automotive 497-504, 969-970, 978
Blacklight/Bug Light 1021
Ceiling Fan 489
Circline 485
Compact Fluorescent 485-489, 494, 520
Damp Location 485, 488-489, 491, 493, 495, 505-506, 508-509
Decorative 487-488, 490-492, 498, 2640
Emergency Lighting 497, 500-501
Exit Sign 498-499
Extended Service 490
Flashlight 498-499, 502-503
Floodlight 430, 486, 488, 492-496, 508
Fluorescent . . . 482-489, 494, 520, 3059, 3061
Gas Detector Aspirator 619
Germicidal 486, 3059, 3061
Halogen 487-488, 490-496, 498-500, 502, 514, 520, 970
Heat 492, 501-502
HID (High-Intensity Discharge) 495, 505-510, 519-520
High-Output Fluorescent 482-483
High-Pressure Sodium (HPS) 507-509
Incandescent 246, 280, 487-504, 513-514, 968-970, 978
Indicator Beacon 280
Infrared 492, 501-502, 3079, 3081
LED 246, 280, 430, 480-481, 485-496, 498-509, 2640
Locomotive 494
Low-Voltage 246, 493-496, 498-500, 502
Medical 495, 497, 513-514
Mercury Vapor 507-508
Metal Halide 495, 505-510, 519-520
Miniature 246, 280, 497-504, 513, 970, 978
Neon Indicator 498-500
Night Light 490
PAR 492-495, 508
Pilot Light 246, 499
PL Compact 485-486
Projection 488, 495, 500-502
Push-Button 242, 246
Quartz 494-496, 498-502, 507-509, 3079, 3081
Reflector 488, 492-497, 500, 502, 514
Rough Service 487-488, 494, 510

Shatter-Resistant. . . . . 481-484, 486-489, ... 492, 494, 505, 507, 510
Sign 498-499
Spiral 487-489, 520
Spotlight 430, 492-496, 508, 514
SSTV 488, 493, 495, 500-502
Stroboscope. 567
Swimming Pool 494, 496
U-Bend. 484, 1021
Ultraviolet 1021, 3059, 3061
Vibration-Resistant 489

BULKHEADS,
Brass Tubing 962, 2556, 2558, 2851
Nylon Tubing 2557
Pipe 2817-2818
Push-to-Connect Tubing 2850
Stainless Steel Tubing 2851, 2858

BULLETIN BOARDS
. . . . . 1358, 1367, 1369-1370, 1372-1373

BULLHORNS. 2037

BUMP CAPS. 1638

BUMPER INSTALLATION KITS. 1129

BUMPERS,
Column 1132
Crane 1129
Dock. 1129
Door. 1985, 2003-2005
Fender 1129
Garment Rack 1171
Loading Dock. 1129
Machinery 1129
Plastic 1342
Rubber. 1129
Trailer. 1129

BUMPS,
Road/Speed. 1131

BUNA N RUBBER 2202, 2207

BUNDLING
Kits. 1419, 1421, 1424
Machines. 1417, 1424
Straps 1419, 1421-1424, 2535
Tape. 1386, 1388, 1395, 1397

BUNG WRENCHES
. . . . . 861, 863, 1136, 1140, 2751

BUNGEE
Canopy Snuggers. 980
Cords/Hooks 1102-1103, 1410

BUNSEN BURNERS. 651

BUOYS,
Key Float 1964
Ring 1810

BURLAP 2215

BURN CARE SUPPLIES
. . . . . 1829, 1831-1835, 1837

BURNER CONTROLS. 3032-3034, 3036

BURNERS,
Bunsen. 651
Cooking 1439
Oil 3036

BURNING GUIDES 2422-2423

BURNISHER PADS. 1584-1586

BURNISHERS,
Floor. 1578-1579

BURS,
Carbide 2298-2300

BUS
Carts 1149, 1446
Cleaners. 908, 910, 922
Drop Cables. 344
Duct Fuses. 180
Grips 327
Pans. 1447

BUSHING TOOLS 713-715, 917

BUSHINGS,
ABS Pipe 2808
Adapter 2809
Anti-Short 324
Black Forged Steel Pipe. 2776
Black Malleable Iron Pipe 2768
Brass Instrumentation Pipe 2795
Brass Pipe 2790-2791, 2793-2795
Carbon Steel Pipe 2780
Chain-Coupling 115
Conduit 315, 319, 323-324
Copper Pipe/Tubing 2796-2797
CPVC Pipe 2812, 2815
Drain/Waste/Vent. 2808-2810, 2812
Galvanized Pipe 2768, 2776
Grounding 315
Hex. 2776
Insulated 315, 323, 2086
Nylon Sheet Metal 2086
Plastic Pipe 2808-2812, 2814-2817
Polypropylene Pipe 2816
Pulley. 115
PVC Pipe 2809-2811, 2814
PVDF (Polyvinylidene Fluoride) Pipe 2817
QD 115
Raceway 306
Reducing 43, 143, 315
Shaft Adapter. 43, 115, 143
Sheave. 115
Snap 2086
Speed Reducer 90
Split Taper 115
Sprocket 115
Stainless Steel Pipe. 2782, 2785, 2787
Steel Instrumentation Pipe 2780
Stud 853
Taper-Lock. 115

BUSINESS
Envelopes 1361
Forms & Record Books 963

BUSINESS CARD HOLDERS. 830

BUTANE SUPPLIES 233-234

BUTCHER KNIVES 863, 1452-1453

BUTT
Cans. 1552
Connectors. 383, 386, 388-389
Hinges 2008

BUTTERFLY
Bandages. 1833
Dampers 3100-3102
Valve Lockouts. 1947
Valves 2780, 2789, 2885-2886, 3099

BUTTONS,
Emergency Call 2034
Exit. 1978
Pendant Station 249
Stop 243, 245, 247, 250-255, 275

BUTYL RUBBER. 2202

BUZZERS 279-280, 1886

BX CUTTERS 845

C

C-CHANNELS,
Plastic 2197, 2209, 2213

C-CLAMPS
. . . . . 316, 833, 835, 837-838, 1711, 2829

C-RINGS. 2156, 2837

CABINET
Accessories 1857, 1865, 1869-1870, 1872
Bases. 1305-1306, 1345, 1870
Benches. . . . 749, 1149, 1169-1170, 1325-1326
Brackets. 1870
Casters. 353, 1195, 1197-1202, 1271
Desks. 1326-1327
Dollies 1192, 1275, 1870
Doors 1242
Drawer Kits 1305
Fans. 2935, 2945
Handles/Pulls. 1272, 2003, 2018
Hinges 1305
Latches 829, 2016-2017
Legs. 1267, 1305-1306, 1870
Locks. 1963
Movers. 1192, 1870
Shelves/Trays . . . . . 1267, 1269-1270, ... 1277, 1444, 1869
Sumps 1869
Unit Heaters. 3075, 3079
Ventilators 2944-2945

CABINETS,
Abrasive Blasting. 2402
Acid 1871
AED (Automated External Defibrillator) 1838
Aerosol Can 1307, 1871
Air Curtain 2969
Bathroom. 1495
Bearing Storage. 1305
Bench. 749, 1149, 1169-1170, 1325-1326
Bin . . . . . 745, 1266, 1277-1278, 1280, ... 1282-1285, 1287-1288, ... 1290-1291, 1303, 1305-1306
Biohazard. 636
Blueprint 1345
Bookcase. 1274
Broom 1269, 1272
Chemical Storage 1870-1872
Clear View . . . . . 1266-1267, 1271-1273, ... 1278, 1289, 1303, 1328, 1346
Combination. . . . . 1268, 1272-1274, ... 1277-1278, 1337
Commercial 1266-1276, 1278, 1326, 1346
Computer. 353, 1328
Corrosive Storage 1871
Counter-Height 1264, 1271, 1870-1871
Cylinder 1873
Defibrillator 1838
Deodorant 1505
Desktop 1267, 1328, 1337
Drawer. . . . . 1170, 1263-1267, 1303, ... 1305-1306, 2055
Drawing File. 1345
Drum 1872
Dry Blast 2402
Electrical 353-354, 357
Fastener Assortment 2055
Fiber-Optic. 357
File. 1274, 1337, 1344-1345
Fire Extinguisher 1880
First Aid 1831-1832, 1834, 1836
Flammable Material. 1868-1873
Flat File 1345
Garage 1276
Hazardous Material 1836, 1868-1873
Healthcare 638, 1172
Hydraulic Hose. 1307
Hydronic Heater. 3090
Industrial . . . . . 749, 1149, 1169-1170, . . . 1263-1278, 1305, 1307, 1319, 1325-1326
Jobsite. 748-749, 1267, 1269, 1271-1273
Key. 1967
Kickspace Heater. 3090
Laboratory 643
Locking . . . . . 741-745, 1266-1278, 1307, ... 1326, 1346, 1495, 1526, 1870
Medical 1172
Medicine 1495
Mobile . . . . . 741-744, 747-749, 945, 1149, ... 1157, 1169-1170, 1172, ... 1263, 1271-1272, 1328
Mobile Parts. 1169-1170, 1263, 1305
Modular Parts 1170, 1263-1265
Modular Storage 1170, 1263-1265, 1276
Office. 1267, 1271-1274, 1337, 1344-1346
Outdoor 1268, 1276
Overhead Storage 1263-1264
Paint 1869, 1872
Parts Storage. . . . . 1169-1170, 1263-1266, ... 1268, 1270, 1273, 1275-1278, 1303, ... 1305-1307, 1318-1319, 2055
Pedestal. 1264, 1318-1319
Pegboard 1266, 1268
Pesticide 1871
Poison 1870-1871
Preassembled . . . . . 1266-1275, ... 1277-1278, 1326, 1328
Rack-Mount. 353, 2055
Restroom. 1495
Rolling . . . . . 741-744, 747-749, 945, 1149, . . . 1169-1170, 1172, 1263, 1271-1272, 1328
Safety 1868-1873
SDS Storage. 1942
Security . . . . . 1264, 1266-1275, 1277-1278, ... 1325-1326, 1328, 1968
Server 353
Side Tool 741, 744
Sliding Door. 1264, 1275, 1346
Sliding Drawer Parts 1305
Spill Control. 1528
Stackable. 1264, 1303, 1305
Stainless Steel. 1267, 1269-1270
Steam Heater. 3090
Supply 1170, 1263-1278, 1307, 1346
Table-Top. 1267
Tool . . . . . 741-745, 748-749, 945, 1149, ... 1169-1170, 1263-1270, 1273, ... 1275-1278, 1307, 1319, 1325-1326
Truck 751-752
Van. 752
Voice/Data 353-354, 357
Wall-Mount . . . . . 353, 1270, 1273, ... 1275-1276, 1307, 1871
Wardrobe. 1267-1270, 1272-1275, 1337
Warming 638
Washroom 1495
Welded. . . . 1266-1275, 1277-1278, 1326, 1346
Wire. 1157, 1873
Wire and Terminal Storage 1307
Worktable/Workbench . . . 749, 1149, 1169-1170, ... 1263-1265, 1319, 1325-1326

CABLE
Anchors 1353, 1792
Assemblies, Fan Damper. 3101
Assemblies, Test Instrument 550
Carriers 397, 405, 865, 1092-1093
Clamps. . . 230, 317-318, 410, 1088, 2078, 2629
Climbing Systems 1788
Clip and Thimble Kits. 1088
Clips. 317-318, 410
Connector Handles 924
Connectors. . . . . 323-324, 326-327, 336-340, ... 351, 355-356, 358, 360, 376, 379-381, ... 389, 561, 923-924, 2424
Contact Dressings 2443
Covers 307, 404-405, 1131, 2420
Crimpers . . . 365-366, 381-382, 384, 389, 678, ... 814, 839, 841, 846-848, 853-855, 924
Cutters. . . . . 318, 347, 365-366, 384, ... 389, 671, 678, 684, 814-815, ... 817, 839, 841-842, 844-846, 853-855, ... 859, 861, 863, 924, 1089
Fastening Clips 2618
Fault Locators 363
Glands 268
Grips 274, 325-327, 352
Guards. 307, 404-405, 1131
Hooks. . . . 318, 1070-1071, 1084, 1091, 1106
Identifiers. 362-366, 565
Installation Tools . . . . . 303, 307, 318, ... 345, 347, 362-366, 381-382, 384, ... 389, 406-407, 411, 671, 814, ... 816-817, 839, 844-848, 852-853, ... 855, 859, 924, 1089

Jacks 355-356, 360
Kits, Heater 3070-3071
Length Meters 565
Locators 565, 866, 1009
Lockouts 1946-1947, 1952
Locks 961, 1353, 1961
Lubricants 849, 2438-2442, 2444-2445
Lugs 191, 379-380, 392, 2424
Meters 362-365, 564-565
Patch Cords 354, 358, 362
Pathways 1884
Protectors 300, 305, 308, 317-318, 324, 376-378, 389, 404-407, 1131, 2420
Pullers 847, 1059
Pulley Blocks 1084, 1090
Pulling Lubricants 849, 2438-2440
Ramps 307, 404-405, 1131
Reel Swivel/Pivot Bases 398
Reels 396-398, 400, 557, 2435, 2526
Seals 963
Shears 318, 671, 678, 815, 817, 845, 853-855, 924
Sleeve-N-Thimble Kits 1088
Slitters 345, 364-366, 671, 846, 859
Splice and Tee Kits 3067
Splicing Kits 376, 378, 3067
Splicing Knives 854
Splicing Protectors 376-378
Splitters 351, 364, 846
Springs 274, 327
Staplers/Tackers 890
Stripper Blades 366, 846
Strippers 345, 365-366, 671, 815, 841, 846, 854-855, 859
Supports 274, 317-319, 410
Swagers 1089
Testers 362-366, 564-565
Thimbles 317, 1088

CABLE MANAGEMENT
Cabinets 353-354, 357
Clamps 230, 318, 410, 2078, 2629
Hangers 317-319, 410
Organizers 305, 307, 317-318, 354, 400, 404-405, 410-411, 1131, 1338, 1343, 1393-1394
Rings 318
Sleeves 369-371, 373, 376-378, 406-407, 1088-1089, 1788
Staples 890

CABLE MARKER LABELS/SLEEVES 305, 367-373, 1928

CABLE PULL SWITCHES 274

CABLE PULLERS 847

CABLE TIE
Mounts 317, 408, 410
Tools 411, 816

CABLE TIES 400, 408-411, 1393, 2535

CABLE TRAY HARDWARE 293, 307, 317-318, 392, 405, 1884

CABLE TRAYS 307

CABLES,
Armored 323, 345
Audio 349-350, 358-360
Audio-Video 351, 358-359
Automotive Starter 923
Battery 923
Battery Booster 923, 965
Borescope Extension 617
Burglar Alarm 349
Bus Drop 344
Camera 359
Category 5e 352, 354, 362
Category 6 . . . . . 352, 354
Category 6a 352, 354
Circuit 349-350
Coaxial 350-351, 358
Communications 155, 348-352, 354, 357-359, 361-362
Composite 358
Computer 155, 224, 348-350, 352, 354, 359, 361-362, 2328
Connector 155, 224, 278, 283, 323, 354, 358, 362, 2480, 2716
Continuous Flexing 345, 348
Control 344-345, 348-350
Data 224, 348-350, 352, 354, 357, 359, 361-362, 563, 1779
Direct Burial 344-345, 349, 464
Drain Cleaning 673, 865
Electrical 323, 345-349, 412, 961, 1093, 3070
Electronic 224, 348-350, 352, 354, 359, 361-362
Entertainment Industry 345, 347, 349-350, 358
Ethernet 350, 352, 354
F-Type 351
Fall Limiter 1787-1788, 1790, 1799-1802, 1804-1806
Feeder 345
Festoon System 1093
Fiber-Optic 281, 357, 362
Fire Alarm 323, 349
Flowmeter 2683-2684
Frequency Drive 155
Galvanized 274, 1087
Garage Door 1123
Gutter Deicing 3067
Healthcare Facilities (HCF) 323
Heat Trace 3067
Hoist Control 345, 348
Hose Safety 2530-2531
Intercom 349-350
Interface 351, 357-361, 2328
Inverter 929
Irrigation 349
Jumper 923
LAN 348, 350, 352, 354
Lighting Fixture 347, 464
Linear Motion Actuator 146
Metal Clad 323, 345
Meter 550
Microphone 350
Motor Control 155, 345, 348
Multiconductor 345-346, 349-350
Multipaired 349-350
NM-B (Nonmetallic Sheathed) 345
Pipe Heating 3067
Pipe Inspection Camera 617, 866
Plenum 349-350, 352, 357
Power Distribution Center 348
Pump 347
Radio 350, 2024-2025, 2030-2031
RCA 358
Refrigerant Float 3007
Riser 349-350, 352
Robotic 345, 348
Roof Deicing 3067
Safety Light Curtain 278
SC 347
Security 349-350, 961, 1353, 1961
Sensor 278, 283, 2480
SEOW 346
Shielded 349-352, 358
SJOOW 346
SJTOW 346
Solenoid Valve 2542
SOOW 345-346
SPC Connecting 2328
Speaker 349-350
Stage Lighting 347, 412
Steel . . . 274, 318, 1010, 1059, 1087, 1123, 1961
STOW 346
Telephone 349, 357
Thermocouple Extension 230
Thermostat 349
Towing 1084
Trailer Lighting 961
Tray 344, 348-350
Unshielded 344, 349-350, 352
USB 354, 359, 361, 1928
VCR 350, 358
Video 350-351, 358-359
Video Surveillance 2022
Voice/Data 348, 350, 352, 354, 357, 361-362
Welding 347, 923, 2416, 2420
Winch 1054, 1064, 1083-1084, 1123
Wire Rope 318, 1054, 1064, 1083-1084, 1087, 1123

CADDIES,
Can 1307
Cleaning 1525-1526, 1533
Cylinder 1187, 1774, 2411, 2437
Dishware 1446-1447
Drum 930, 1142, 1861, 1864, 2673
Folding Chair 1168, 1190, 1340-1341
Food Service 1446-1447
Fuel 1874
Hose 1016, 2523-2527, 2529
Lockout 1953
Pallet Truck 1173, 1187
Pipe/Tubing Fitting 2751
Receptacle Rim 1525
Spill Control 1864
Sports Equipment 1478
Table 1168, 1340
Toilet Bowl Brush 1543
Tool 1550
Wire Reel 849, 1167
Work Platform 1176

CADDY BAGS 1525

CAFÉ FURNISHINGS 1444-1445, 1456, 1482

CAGES,
Air Conditioner Condenser 3094
Fixed Ladder 1028, 1049
Tire Inflation 955
Wire 1229-1230, 1262, 1314-1315, 1451

CALCULATOR PAPER ROLLS 1356

CALCULATORS 885, 1360

CALENDARS 1369-1371

CALIBER LOADS 2169

CALIBRATION
Baths 562, 597
Gas & Regulators 1777-1778, 1780, 1782
Labels 574, 1933
Pumps 563, 874, 2637
Solutions 634
Testers 544, 562-563, 874, 2637
Tools 1780, 2341, 3040
Weights 645, 1430
Wrenches 3040

CALIBRATION KITS,
Gas Detector 1776-1778, 1780-1781
Pneumatic 3040

CALIBRATOR
Cases 548, 604
Pressure Modules 563

CALIBRATORS,
Blackbody 604
Current 562-563
Dry-Well 562, 597
Dual-Block 597
Handheld 562-563, 597
Infrared 604
Loop 562
Multifunction 562
Pressure 562-563, 874, 2637
Process 562
Sound Level Meter 624
Temperature 562, 597, 604
Thermocouple 562, 597
Voltage 562

CALIPER
Attachments 2325
Grease 899

CALIPERS 884, 2325-2326, 2330

CALL BOXES,
2-Way Radio 2034

CAM
Action Clamps 2318
Arm Straps 1394
Buckle Straps 1104, 1106
Followers 139
Handles 2322
Latches 2016
Lock Fittings 2765-2767
Locks 1317, 1963

CAMCORDER CONNECTORS 361

CAMERA
Batteries 534, 606, 614, 2048
Battery Chargers 606
Cables 359
Cases/Clips/Holsters 605, 2048
Heads 616-617

CAMERAS,
Body 2048
Closed-Circuit Television (CCTV) . . . 2045-2048
Digital Video 949, 2046-2048
Firefighters' Infrared 609
Interior Vehicle 2048
IP Network 2045-2046
Pipe Inspection . . . 543, 616-617, 672, 684, 866
Rear View 949
Thermal Imaging 605-613, 615
Video Surveillance 2045-2048

CAN
Brushes 1542-1543, 1546-1547
Caddies 1307
Funnels 1874
Hooks 1620
Openers 814, 887, 1454, 1620
Wrenches 365

CAN LINERS,
Trash 1556, 1559-1562

CANDIES 1440-1441

CANDLES,
Smoke 3096

CANISTER
Dust Collectors 710
Fans 1784
Vacuum Cleaners 1571, 1573

CANISTERS,
Fuel Filter 2671
Respirator 1762, 1768
Ventilation Duct 1785
Welding Gas 2430, 2437

CANOPIES & COMPONENTS 980

CANS,
Adhesive Brush 2834
Ash/Butt 1552
Bench 1875
Biohazardous Waste 1836
D.O.T. Approved 1875
Diesel Fuel/Gasoline/Kerosene 1874-1875
Dispenser 1874-1876
Disposal 1836, 1875-1876
Faucet 1876
Flammable Material 1874-1876
Garbage 1485, 1552-1558
Measuring 930
Oil 931, 935, 1874-1875
Oily Waste 931, 1876
Plunger 1875
Recycling 1555, 1558
Safety 1874-1876
Sanitary Napkin 1494
Step 1557

CANTILEVER
Arms/Racks/Supports 1238
Clamps 834

Ladders 1041-1042
Racks 1238
Shelf Supports 1238

CAP
Liners 1638
Nails 2111
Nuts 2084
Screw Counterbores 2257
Screws 316, 1106, 1119, 2055-2070, 2112-2122

CAPACITANCE METERS
. . . . . .536-540, 543-544, 558

CAPACITOR
Jump Starters 927
Jumpers 65
Mounting Kits 65-66
Terminal Covers 65-66

CAPACITOR-START MOTORS,
2-Speed 10, 64
Farm-Duty 34-35
General Purpose 9-14, 19, 64
HVAC 28, 56-57, 59-60, 63-64
Pump-Duty 9-13, 23-26, 28, 56, 60, 64
Washdown 31-32

CAPACITORS,
Air Conditioner 65-66, 3031
Lighting 478
Motor Run 66, 3031
Motor Start 65, 3031

CAPILLARY TUBING 3017

CAPS,
ABS Pipe 2808
Aluminum Cam and Groove 2767
Baseball 1641
Battery 923-924
Black Pipe 2768, 2773, 2776
Bolt 2757
Bottle 650, 652
Bouffant 1709, 1731, 1738
Brass Pipe 2790-2795, 2855
Brass Tubing . . . 2795, 2806, 2854, 2859, 3094
Bump 1638
Carbon Steel Pipe 2779
Carbon Steel Tubing 2804
Conduit 315, 320
Copper Pipe/Tubing . . . 2796, 2798, 2801-2802
CPVC Pipe 2812, 2815
Curb/Discharge 2940
Drag Shield 2423
Drain/Waste/Vent 2796, 2798, 2808-2810
Drive 1916, 2656
Ductile-Iron Pipe 2780
Dust 2489-2491, 2559
End 305, 316, 1119, 1133, 1224, 1476, 2006, 2586
Floor Protector 1342
Galvanized Pipe 2768, 2773, 2776
High-Visibility 1641
Hose 1818, 2765, 2767
Jet 3099
Knit 1642
Outlet 310, 328
PFA Compression Tubing 2856
Plastic Pipe 2808-2812, 2814-2817, 2821
Plastic Tubing . . . 2554, 2807, 2821, 2850, 2856
Plug 340
Polypropylene Cam and Groove 2765
Polypropylene Pipe 2816
Push-Button 242, 255
PVC Pipe 2809-2811, 2814, 2821
PVDF (Polyvinylidene Fluoride) Pipe 2817
Receptacle 310, 328
Roof 2949, 3096
Stainless Steel Cam and Groove 2767
Stainless Steel Pipe 2782, 2785, 2787
Stainless Steel Tubing 2788, 2803, 2858
Syringe Tip/Bottle 2235
Test Tube 650
Tire Valve 954-955
Torch-Cutting 2423
Vent 2671, 2722, 2949, 3085, 3087, 3096, 3103
Wall 2949, 3087, 3103
Welding 1716, 2420

CAPSULES,
Desiccant 1413
Glass Adhesive 2172
Leak Detection 3009

CAR
Air Fresheners 909
Dollies 944
Dusters 908, 911
Lamps, Miniature 497, 499-500, 503-504, 978
Polish/Wax 908, 910
Stop Installation Kits 1131
Stops 1131
Undercoatings 907
Waxes 908, 910

CAR WASH
Brushes 908, 1543
Motors 31, 33, 37, 2474
Pumps 1002, 2668-2669, 2693, 2698
Soaps 908, 910
Tubing 2613-2615

CARABINERS . . .1788, 1790, 1807, 1964, 2043

CARAFES,
Beverage 1439

CARBON DIOXIDE
Detectors 543, 584, 618, 1776-1777
Regulators 2428-2429
Sensors 1777, 3027
Testers 543, 584, 593, 617-618

CARBON MONOXIDE
Alarms 617, 1881-1882, 3029
Analyzers 617-619, 623
Calibration Kits 1778, 1782
Detector Relays 1881
Detector Testers 617-618, 3029, 3096
Detectors 617, 622-624, 1771, 1776-1781, 1881-1882, 3029
Sensors 1776-1780, 1881-1882

CARBON STEEL TUBES 2186

CARBON STEEL,
Angle 2186
Bar 2187
Cold-Rolled 2179, 2186, 2192
Flat 2186
Rod 2186-2187
Sheet 2180, 2192
Square Tubing 2186

CARBOYS 656, 1137, 1525

CARBURETOR CLEANERS 897, 900

CARD HOLDERS,
Magnetic 830, 1230

CARD READER CLEANING CARDS 534

CARDS,
Flash Memory 1354
Key 1971
Laser Target 878, 881
Payroll/Time Clock 1375
UPS Communication 214
Wallet 1941
Wire Marker 373

CARGO
Bars 1106
Nets 1102, 1106
Pants 1723
Seals 963
Stabilizers 961, 1102, 1104-1107, 1410
Tie-Down Equipment 961, 980, 1095-1097, 1102-1107, 1410
Winches 1105

CAROUSEL PALLET TURNS 1177

CARPENTER'S
Aprons 755, 757
Glue 2237
Hole Saw Kits 706
Pencils 884
Pouches 755, 1795
Squares 884, 2334

CARPET
Adhesives 891, 2216-2217, 2228
Bonnets 1583
Cleaner Attachments 1577-1578, 1583
Cleaner Pumps 2669
Cleaners 910, 1517, 1520-1522, 1577
Deodorizers 1505-1506, 1517, 1520-1521, 1524
Detergents/Shampoos 1517
Dryers 2989
Extractors 1577-1578
Installation Tools 891
Masking 1100
Mats 1892
Poles 1176
Protectors 1099-1100, 1623
Runners 1099-1100, 1623, 1891
Seam Rollers 891
Spot Brushes 1543
Spot/Stain Removers 908, 910, 922, 1517, 1519-1521, 1577
Sweepers 1569, 1580
Tape 891, 1385

CARPORTS 980

CARRIERS,
Battery 922
Cable 397, 405, 865, 1092-1093
Chair 1168, 1190, 1340-1341
Cylinder . . . 1003, 1187-1188, 1782, 2411, 2437
Drum 930, 1142-1146, 1188, 1190, 1861, 1864, 2673
Duct 1784-1785
Hose 405, 1016, 1092-1093, 2528
Log 1007
Tool 745-746, 754-755, 1798

CARRY-OUT FOOD CONTAINERS 1436

CARRYING CADDIES 1525-1526, 1533

CART
Bags 1526
Bin Rails 1281
Bins 1148
Casters 1195-1214
Corrals 1171
Covers 1156
Drawers 1319
Lockers 745
Replacement Parts 1198, 1207
Shelves 1248
Stabilizers 1220
Wire Caddies 849, 1167

CARTON
Strapping Machines 1424
Strapping Supplies 1404, 1419, 1421-1424, 2535

CARTONS,
Packing/Shipping 1400-1402
Plastic (See Bins)
Shipping 1400-1402
Stock 1400-1402

CARTRIDGE
Adhesives . . . . . .905, 1020, 1632, 2172, .2217-2218, 2221, 2226, 2228-2232
Filters 1576, 1762-1763, 2402, 2408, 2641, 2702-2706, 3004, 3054, 3059
Heaters 3063, 3066
Housings 2671, 2706-2707, 2710, 2896
Mandrels 2381
Pullers 2748
Rolls 2381
Sealants 2226-2233
Thermostats 3065
Valves 2475

CARTRIDGES,
Cleaner 2759
Disc 1761
Filter (See Filter Cartridges)
Humidifier Demineralizer 3061
Label Maker 367-372, 1378-1379, 1928, 1930-1931
Leak Detector 3096
Printer Ink 1403, 1930
Pump 2659
Respirator 1760-1763, 1765, 1768
Rotary Joint 2846
Scale Inhibitor 2703-2705, 2707
Smoke Emitter 3096
Urinal 2759
Water Filter 635, 2703-2710, 2719, 3003

CARTS,
2-Wheel 849, 1158, 1167
Air Cylinder 1774, 2411
Audiovisual 1343, 1353
Banquet 1446
Bin 1280-1281, 1292-1293, 1297
Book 1349
Bus 1149, 1446
Chart 1349
Chemical Transport 1149
Cleaning 1526
Computer 1328, 1343, 1353
Contractor's 1149, 1169-1170, 1263
Cutting Tool 2313
Decontamination Equipment 1824
Die 1179-1183
Drum 1864, 2673
Drywall 1168
Dump 1158-1159
Electric 989, 1171, 1175
Elevating Lift 1181-1182
Eyewash Station 1839
File 1347
Flat Bed 1163-1167
Food Service 1148-1149, 1155-1156, 1445-1446, 1448
Hammer 673
Hand 1150, 1155, 1157
Handicap Mobility 1171
Healthcare 1149, 1152, 1155-1157, 1172, 1187
Heater 3071
Heavy-Duty 743, 1147-1155, 1157, 1170, 1175, 1446
Hose Reel 1016, 2528
Housekeeping 1172, 1526
Hydraulic 1181, 2492
Industrial 743, 1147-1155, 1157, 1161, 1170, 1175, 1446
Inhalation Therapy 1187
Instrument 1154
Insulated 1445
Janitor's 1526
Laboratory 1149, 1152, 1155-1157, 1349
Landscaper/Utility Trailer 1158
Laundry 1160-1162, 1172
Library 1349
Lift 1181-1182
Light 519
Linen 1160-1162, 1172
Mail 1157, 1349
Medical/Surgical 1149, 1155-1156, 1172
Motorized 989, 1171, 1175
Order Picker 1150-1151, 1154-1155, 1157, 1161
Organizer 1148, 1297
Paint Sprayer 1627
Panel 1163, 1168
Pegboard 998, 1169, 1330
Pipe 849, 1168
Plastic 1147-1149, 1158-1162, 1172, 1445-1446, 1448
Power Cutter 673
Power Distribution 412
Recycling 1159-1160
Security . . . 1157, 1161-1162, 1172, 1328, 1824
Service . . . . . 743-744, 1147-1158, . . . 1161-1162, 1169-1170, 1172, 1445-1446

Shop 743, 1147-1154, 1157, 1161, 1169-1170, 1446
Shopping 1148, 1171
Spill Control 1864
Spool 849, 1167
Stainless Steel . . . 1150, 1152, 1156, 1445-1446
Stock 1155-1157, 1163-1166
Stock Picker 1150-1151, 1154-1155, 1157, 1161, 1170
Storage Bin 1280-1281, 1292-1293, 1297
Tablet Charging 1352
Tool 743-745, 886, 998, 1147-1154, 1169-1170, 1330, 1446, 2313
Trades 744, 1149, 1169-1170
TV 1353, 2023
Utility 743, 1147-1157, 1161-1162, 1169-1170, 1172, 1186, 1446
Vending 1458
Welding 1187, 2411-2412
Wire 849, 1155-1157, 1161-1162, 1167, 1171-1172, 1347, 1349

CARVING KNIVES 1452

CASES,
2-Way Radio 2029, 2031-2032
Air Conditioner Wall 2992-2993
Blade Disposal 809
Calibrator 548, 604
Camera 605, 2048
Chain Saw 1004
Clamp-On Meter 1779
Clipboard Form 1382
Cut-Off Tool 2586
Display 1458
Electrode 756, 2416
Electronics Tool 846
Emergency Flare 1905
Eyewear 1665, 1668
Gas Detector 1779, 1781
Gun/Rifle 1304
Knife 1453
Label Machine 367-368, 370, 372-373, 1927-1928
Measuring Wheel 877
Megaphone 2037
Meter/Tester 362, 536-537, 539, 546, 548-549, 557, 565, 604, 625, 1304
Oscilloscope 548
PAPR/Respirator 1774
Parts 745, 1302-1304
Pipe Threader 873
Printer 370
Protective 1302-1304
Rolling 1304
Saw 1006
SCBA (Self-Contained Breathing Apparatus) Storage 1774
Shipping 1304
Storage . . . 747, 1294, 1302-1304, 1774, 2800
Stroboscope 567
Test Lead 548
Tool 747, 755-756, 811, 814, 846, 859, 1302, 1304, 2586, 2800
Tripod 2038
Watertight 1304

CASH REGISTER ROLLS 1356

CASTER
Adapters/Mounts/Stems 1214
Brake Kits 988
Kits . . . 988, 1201, 1211, 1271, 1282, 1334-1335
Locks 1220
Wheels 1214-1220

CASTERS,
Aerospace/Air Cargo 1195, 1197-1203, 1206-1208
All-Terrain 1207
Aluminum 1198, 1202-1203, 1205-1206
Antimicrobial 1195, 1197, 1205
Antivibration 1206, 1208
Automotive 1195, 1198-1203, 1206
Basket Truck 1195, 1197-1199, 1201-1206, 1209-1213
Bed 1204-1205, 1209-1214
Bin Rack 1281-1282, 1289
Bolt Hole 1214
Brake 1119, 1195-1214, 1247, 1271
Cabinet 353, 1195, 1197-1202, 1271
Cart 1195-1214
Cast-Iron 1195, 1198-1206, 1208, 1214
Chair 1195-1196, 1200, 1209-1213, 1334-1335
Cleanroom 1335
Commercial 1195-1204, 1206-1214
Computer 1195-1196, 1198-1199, 1209-1211, 1213-1214
Copier 1196, 1198-1199, 1202, 1209-1211, 1213-1214
Corrosion-Resistant 1195, 1197-1199, 1201, 1203, 1205, 1208, 1212-1213
Creeper 945
Dairy Operations 1195, 1197, 1199, 1202-1206
Dolly 1195-1212
Dual-Wheel 1196, 1203, 1205-1206, 1211, 1334
Ductile-Iron 1199, 1202-1203
ESD 1195, 1198, 1335
Evaporative Cooler 2998
Extreme Temperature 1197, 1203, 1208
Flanged 1208
Food Processing 1195, 1197-1199, 1202-1207, 1209-1210, 1212-1213
Food Service/Restaurant 1195, 1197-1199, 1201-1207, 1209-1210, 1212-1213
Forged Steel 1198, 1200-1201, 1203, 1208, 1212
Forklift 1180
Furniture 1195-1196, 1200, 1202-1204, 1206, 1209-1213
Gate 1213
Gurney 1195, 1202-1206, 1209-1214
Hamper 1195-1199, 1201-1204, 1206-1207, 1209-1210, 1213
Hard Floor 1195-1196, 1201, 1206, 1209-1211, 1334-1335
Healthcare 1195-1199, 1202-1214
Hooded 1196, 1200, 1209, 1211
Hopper 1195-1208, 1210, 1212
Hospital 1195-1199, 1202-1214
Industrial 960, 1195-1214, 1271
Institutional 1195-1214
Inverted 1208
Jack 960
Kingpinless 1197, 1202-1203, 1208
Ladder 1209
Laundry Hamper 1195-1199, 1202-1207, 1209-1210, 1212-1213
Leveling 1208-1209
Locking 1195, 1197-1214, 1271
Low-Profile 1196, 1200, 1205, 1209, 1211, 1213
Mail Cart . . . 1195, 1197-1199, 1202-1207, 1211
Manufacturing 1195-1214
Material Handling 1195-1214
Metal Fabricator 1195-1203, 1206, 1208
Monoprene 1198
Neoprene 1205, 1209-1211, 1213-1214
NSF-Certified 1195, 1197-1199, 1201, 1204-1205, 1208-1210, 1212, 1247, 1323
Nylon 1195-1205, 1208-1211, 1213-1214
Octagon Stem 1211
Office Equipment 1195-1204, 1206-1207, 1209-1214
Pharmaceutical 1195, 1197-1199, 1202-1206, 1208-1214
Phenolic 1195-1197, 1199-1205, 1209, 1212, 1214
Plate 1195-1208
Platform Truck 1195-1211, 1213
Pneumatic 1207
Polyolefin 960, 1195-1199, 1204-1205, 1209-1210, 1212
Polypropylene 960, 1195-1199, 1201-1202, 1204-1206, 1209-1213
Polyurethane 1195-1206, 1208-1214, 1247
Postal Hamper 1199, 1204, 1209
Quiet-Running . . . 1195, 1197-1198, 1202-1203, 1206-1207, 1209-1211, 1213-1214
Rail 1201, 1208
Rubber 945, 1195-1207, 1209-1214, 1247
Scaffolding 1043, 1210-1211
Semi-Steel 1199
Semipneumatic 1207
Shelving 1210, 1247, 1282
Shock-Absorbing 1206-1207
Shopping Cart 1210
Stainless Steel 1197, 1204-1205, 1208, 1212-1213
Steel 1195-1208, 1271
Stem 1119, 1208-1213, 1247, 1334, 2410
Stretcher 1195, 1202-1206, 1209-1214
Structural Framing 1119
Swivel 1195-1214, 1247, 2410
Table 1323, 2426
Textile 1195-1199, 1201-1203, 1205-1206
Thermoplastic Rubber 965, 1195-1199, 1202, 1204-1206, 1208-1210, 1212-1214
Thread Guard 1195, 1197-1198, 1201, 1204-1214
Tool Box/Jobsite Box . . . 1199-1203, 1206, 1214
Track 1208
Truck 1195-1213
Twin-Wheel 1213
Utility Cart 1195-1214
V-Groove 1208
Vinyl 1196, 1209, 1211
Warehouse 1195-1214
Washdown 1195, 1197, 1202, 1204-1205
Welding Screen 2410
Workbench 1195-1206, 1208-1211, 1317, 2426
Yellow Zinc Chromate . . . 1195, 1197-1199, 1205

CATALOG RACKS 1349-1350, 1383

CATCH BASIN GRATE HOOKS/INSERTS 1858

CATCH BASINS 2724

CATCHES,
Cabinet 2017

CAULK
Removers 1519, 2236
Tools 887, 2219, 2234, 2236

CAULK GUNS,
Air-Powered 2233
Cordless 670, 679, 685, 688
Manual 2234, 2236

CAULK,
Acrylic Latex 2230-2232
Firestop 1884, 2233
Glazing 2230-2232
Indoor/Outdoor 905, 2226, 2228, 2230-2233, 2236
Latex 905, 1884, 2230-2233
Painter's 2230-2231
Pipe Insulation 2834
Refrigerant Line 3012
Silicone 2226, 2230-2233
Tile/Tub 2230-2233

CAUTION
Signs 1131, 1527, 1903, 1911, 1918, 1921-1922, 1924, 1937
Tags 1404, 1938-1939
Tape 1900, 1907

CB RADIOS 950, 2033

CCTV CAMERAS 2045-2048

CD/DVD
Holders & Racks 1358
Markers 1365, 1615
Shredders 1376-1377

CDS 1354

CEILING
Connectors, Raceway 304-305
Diffusers 3102
Electrical Box Supports 317
Heater Trim Kits 3075
Heaters 3073, 3075-3077, 3087-3089
Hooks 2020
Mount Air Conditioners 2995
Paints 1595-1597, 1599, 1630, 2763
Panel Heaters, Radiant 3076
Radiation Dampers 2943, 2945
Repair Compounds 1630
Shutters 2967
Speakers 2039
Squeegees 1546-1547, 1550
Tiles 1889, 2763
Ventilators 2942-2945, 2947-2948

CEILING FAN
Controls/Switches 167, 465, 2916, 2922, 2944, 2946, 2949
Dusters 1538
Shutter Covers 2967

CEILING FANS,
Bathroom 2942-2945, 2947
Industrial 2922
Kitchen 2944, 2947

CEILING MOUNTS,
Air Circulator 2916, 2918
Heater 3077, 3081
Projector 2023
Speaker 2023, 2039
TV 2023

CELL
Phones 2034
Scrapers 663

CELL PHONE
Battery Chargers 361, 533, 949, 1570
Headsets 949
Holders 756, 950
Holsters 756
Signs 1921

CEMENT
Hoes 862, 892
Mixers 893
Mixing Containers 892
Placers 892
Solvents 320, 2819

CEMENT,
ABS 2819
Adhesive 1361, 2216, 2228
Anchor 1631, 1633
Contact 1361, 2228, 2834-2835
CPVC 2819
Firestop 1883
Patching 1631-1633, 2172
PVC 320, 2819
Tire Patch 953, 955

CENTER
Drills 2255
Finder Gages 2334, 2336
Finders 2334, 2336
Gages 2334, 2336
Punches 822, 862, 2337, 2425, 2536
Reamers 2256-2257

CENTERING HEAD REPLACEMENT PARTS 2422

CENTERING HEADS 2334, 2422

CENTERS,
Circuit Breaker Lockout 1951-1952
Dead 2348
Group Lockout 1950-1953
Live 2348
Lockout 1939, 1950-1953
Power 304
Right-to-Understand 1942
Safety Tag 1939, 1950-1952
SDS Jobsite 1942
Turning 2348
Work 743, 749, 1149, 1169-1170, 1263, 1316-1326

CENTRIFUGAL
Fans 1784-1785
Pump Heads 2633, 2648
Pump Motors 11, 13-24, 27-28
Pump Repair Kits 2632-2633, 2642
Pump Replacement Parts . . . 2632-2633, 2637
Pumps 679, 2627, 2630, 2632-2633, 2637-2652, 2657, 2659-2660, 2690-2692

CENTRIFUGE TUBES 650, 657

CENTRIFUGES 650

CERAMIC
Adhesives 1361, 2216-2218, 2225, 2228-2233, 2237-2238, 2819, 2834
Coatings 1599
Epoxy 2217, 2221
Heaters 3068-3070
Magnets 824, 829-830, 1066, 1116
Pot Magnets 829

CEREALS 1441

CERTIFICATE HOLDERS 1358

CERTIFICATES,
Medical 963

CHAIN
Assemblies, Rebar 1804-1805
Attachment Links 117
Binders 1107
Clamps 837, 2333
Connecting Links . . . 116-117, 1071, 1073, 1910
Connectors, Trailer Hitch Safety 958
Coupling Bushings 115
Coupling Covers 122
Detachers, Roller 117
Falls 1056-1057
Grab Hooks 1070-1071
Hooks 1069-1071, 1084, 1091, 2073
Lockouts 1948
Lubricants . . . 849, 2438-2442, 2444-2445, 2457
Nose Pliers 841, 844
Offset Links 116-117
Oilers 2463, 2465
Pullers, Ratchet Lever 1057-1058
Shackles 1067
Shaft Couplings 122
Slings, Lifting 943, 1074, 1144
Slip Hooks 1071, 2043
Tensioners 120-121, 1115
Tongs 867
Wrenches 861, 867

CHAIN HOIST
Baskets 1055
Rings 1068-1069
Swivel Hooks 1069-1071

CHAIN HOISTS,
Air 1055
Electric 1050-1054
Lever 1057-1058
Manual 1056-1058
Ratcheting 1057-1058

CHAIN LINK FENCE
Gate Hardware 1011
Hardware 1011

CHAIN LINK FENCES 1011

CHAIN SAW
Bars 1004
Boots 1742
Cases 1004
Chains 1004
Chaps 1721
Lubricants 2441
Tools 820

CHAIN SAWS 679, 717, 1004

CHAINS,
Barricade 1527, 1910, 2043
Beaded 1964
Binder 1072, 1107
Coil 1072-1073
Conveyor 116
Corrosion-Resistant 117, 1072-1073
Cross-Arm 1792
Double Loop 1073
Drain Stopper 2723
Fan Shutter 2936
High Test 1072
Jack 318, 1073, 2073
Key 1964, 1966
Lifting 943, 1072, 1074
Machine 1072-1073
Pallet Grab 1177
Proof Coil 1072
Pull 2936
Roller 116-117, 122
Safety 958, 1107
Saw 1004
Security 2005
Steel 958, 1071-1073, 1107, 2073
Tie-Down 1107
Tire 957
Towing 958, 1072, 1107
Transport 958, 1072, 1107

CHAIR
Armrests 1335
Carriers 1168, 1190, 1340-1341
Casters 1195-1196, 1200, 1209-1213, 1334-1335
Cushions 1821
Footrests 1335
Footrings 1334
Leg Caps 1342
Leg Glides 1335
Leg Tips 1342
Mats 1336
Trucks 1168, 1190, 1340-1341

CHAIRS,
Arm 1334, 1336
Bar-Height 1444, 2746
Bathtub 2746
Bos'n 1787, 1797
Café 1444, 1482
Chaise Lounge 1482
Cleanroom 1334-1335
Conference Room 1336
Core Cooling 1817
Desk 1333-1336
Drafting 1333-1334
Ergonomic 1333-1336
ESD 1334-1335
Evacuation 1821
Executive 1336
Folding 1341
Guest 1341
Laboratory 1333-1335
Office 1333-1336, 1341
Outdoor 1482
Prison 1341
Stacking 1341, 1444, 1482
Task 1333-1336
Tilter 1336
Transport 1821-1822
Wheel 1171, 1836

CHALK LINE REELS 884, 891

CHALK,
Marking 884, 1610
Pavement 1610
Spray 1610

CHAMFER MILLS,
2-Flute 2296
AlTiN-Coated 2296
Carbide 2296

CHAMOIS 908

CHANGERS,
Lamp 279, 511
Tire 952

CHANNEL
Clamps 316, 394, 2825
Fittings 316, 394
Magnets 829
Nuts 316, 2825
Washers 316

CHANNELS,
Metal Framing 316
Mounting 216, 394
Terminal Block 394
Wire Management 304-307, 404-405, 1131, 1338

CHAPS,
Chain Saw 1721
Welding 1716

CHARCOAL GRILLS 1459

CHARGER
Adapters 361, 3006
Controls, Solar 927
Radios 670

CHARGERS,
2-Way Radio 2024-2025, 2028-2032
Automatic 925-927
Battery (See Battery Chargers)
Booster 925-928
Cell Phone 361
Engine Starter 925-928
Gas Detector 1777, 1779-1781
Grease Gun 933
Induction 1445
Portable Starter 925-928
Respirator Battery 1764-1766, 2407
Solar 927
Tablet 361
Test Meter 362
Trickle 535, 925-927

CHARGING
Hose Couplings 3006
Hoses 3006
Kits, Accumulator 2494
Manifolds 946, 2994, 3005

CHART RECORDER
Accessories 598-599
Cartridges 599
Paper 599
Pens 599

CHART RECORDERS,
Humidity 584, 598
Pressure 598
Temperature 584, 598
Universal 598

CHART TAPE 1369

CHARTS,
Safety 1709, 1941-1942

CHEATER PLUGS 335

CHECK VALVES,
Acetal 2656, 2850
Air Compressor 2550, 2573-2575
Brass 2574, 2656, 2694, 2806, 2898-2900, 2903, 2907
Bronze 2862, 2898-2899, 2907
Carbon Steel 2898-2899
Cast-Iron 2627, 2898, 2900
Cast-Steel 2898
CPVC 2900
Ductile-Iron 2656
Hydraulic 2471, 2475-2476
Instrumentation 2861
Lead-Free 2656, 2900
Nylon 2900
Polypropylene 2900
Pump 2627, 2646, 2656, 2662, 2903, 2907
PVC 2627, 2656, 2889, 2900
Regulator 2435
Sewage 2627
Stainless Steel 2694, 2861, 2899-2900
Sump Pump 2627
Swing 2898-2899
Torch 2435
Wastewater 2627
Welding 2435
Y-Pattern 2898

CHECKWEIGHING SCALES 644, 1425-1426, 1428-1430

CHEESE CLOTH 1622

CHEMICAL
Additives, Air Conditioner 946, 2820, 3012-3013
Additives, Humidifier 3059, 3061
Bottles 633, 652-654, 1520, 1522, 1525, 1533, 1536, 1876
Cleaners 909-910, 1502-1504, 1508-1513, 1518-1524, 2330, 2342, 2446
Deodorizers 1504-1505, 1522
Dispensers 1520-1522, 1525, 1533, 2457, 2702
Hoses 1522, 1629, 2529, 2604-2608, 2635-2636, 2690, 2842-2844
Injectors 2694
Labels 369, 1522, 1930, 1933, 1940
Metering Pump Replacement Parts 2688, 2690
Metering Pumps 2688
Proportioners 1520-1522, 1525
Protective Clothing 1672, 1728-1730, 1733-1734, 1737, 1739-1740
Protective Goggles 1667-1668
Pumps 896, 936, 2631, 2638, 2642-2643, 2645, 2647-2649, 2663-2669, 2673-2674, 2676-2677, 2688, 2690-2691, 2693, 2695-2697
Resistant Wheels 1214-1218
Solution Tanks 1137, 2689
Spill Signs 1527
Sprayers 994, 1000-1002, 1525, 1550
Storage Racks 1251-1252, 1521-1522, 1525

CHEMICALS,
Decal-Removing 2216
Degreaser 232, 642, 908-909, 938-939, 1508-1510, 1513-1514, 1520-1523, 1581, 2446-2448
Delimer 1503, 2704, 3011-3012
Descaler 2446, 3003, 3011-3012
Disinfectant/Sanitizer 1503-1504, 1509-1514, 1517, 1520-1523, 2446, 3011
Floor Polishing 1536
Humidifier Treatment 3059, 3061
Laboratory 232, 628, 630-631, 634
Layout 2427
Paint Removing 910, 1519, 1613, 2216
Parts Washer 642, 901, 938-939
Pool/Spa 1480
Stone Impregnator 1533
Water Treatment 1480, 2702, 2998, 3059, 3061

CHERRY PICKERS 943, 1032-1033, 1064

CHEST
Handles 2018
Pulls 2018
Waders 1744

CHESTS,
Ice 1300, 1826-1827
Tool 741-750, 753, 1304

CHICKEN WIRE 1010

CHILLERS,
Laboratory 640

CHIMES,
Door 2053
Fire Alarm 2052

CHIMNEY LINERS 3097

CHIN GUARDS 1639, 1709, 2407

CHIP
Brushes 1616
Guards 2359, 2363, 2515

CHIPPING HAMMERS 715, 827, 2424, 2512-2513

CHISEL
And Punch Sets 758, 821
Retainers 2513-2514

Scalers. 713, 862, 2512, 2514
Scrapers 713-714, 862, 887-888
Sets 758, 821, 2514

CHISELS,
Air Hammer 862, 2512, 2514
Air Tool. 714-715, 862, 2512, 2514
Asphalt. 713, 715, 2514
Brick 822
Bull Point 712-715, 822, 862
Bush Tool 713-715
Cape. 822
Chipping Hammer 712-715, 2514
Cold 712-715, 821-822, 862
Concrete 712-715
Cordless. 712
Demolition Hammer. 712-715
Diamond Point 822
Digging 713
Flat. 712-715, 862, 2514
Floor. 822
Hand 821-822, 862
Mason's. 822
Moil-Point 715, 2514
Paving Breaker 713, 715, 2514
Ripping 823, 2514
Rivet Hammer 2512, 2514
Rotary Hammer 712-715
Scaling. 712-715, 862, 2512, 2514
Scraping 714, 862
Slotting 714
Super-Duty. 822
Tile Removal 712-713
Weld Flux. 2512
Wood 821-822

CHLORINE
Colorimeters 627, 631
Dioxide Gas Detectors 1779
Gas Detectors 1779
Meters 627, 630-631
Pool Chemicals 1480
Reagents 631
Test Strips 632, 2702

CHOCKS,
Aluminum 1130
Pallet Truck 1173
Rubber. 1130, 1173
Steel 1130
Urethane 1130, 1173
Wheel. 1130, 1173

CHOP SAW WHEELS
. . . . . 719-721, 737, 2383-2385, 2387-2388

CHOP SAWS. 736

CHROMATOGRAPHY
Accessories 660
Seals 660
Syringes. 660
Vials. 660

CHUCK
Adapters 703, 710, 729, 872
Wedges 2315

CHUCKING REAMER SETS. 2258

CHUCKING REAMERS. 2258

CHUCKS,
Air 956, 962, 2518
Collet 2311, 2346
Drill 703, 729, 2314
Drill Press 2314
Hammer Drill 710
Keyed. 729, 2314
Keyless 703, 2314
Nipple Threading 872
Power Shrink-Fit 2310
Production Drilling. 2314
Rotary Tool. 724
Shrink-Fit. 2310-2311
Stainless Steel. 2314

CHUTES,
Lamp Crusher 511

CIGARETTE LIGHTER
Charge Cords. 667, 1779
Extension Cords. 361
Plugs 949
Power Sockets. 949
Socket Adapters. 361, 949

CIRCUIT
Board Adhesives 2217-2218, 2225
Cables 349-350
Centers, Timing/Heating 418
Identifiers. 547, 564
Protectors 394
Testers. 547, 564, 921, 961
Tracers. 362-364, 547, 564-565, 921

CIRCUIT BREAKER
Box Covers. 190
Covers 190
Enclosures. 189-192, 197
Filler Plates 190-191, 198
Finder Adapters 564
Finders. 564
Fuses. 200, 394, 965
Handle Blocks 199
Handle Ties 191, 199
Interlocks. 191, 199
Jumper Bar Bases 192
Load Centers 189-191, 197
Lockout Centers. 1951-1952
Lockouts . . . . . .191, 199, 1945-1946, ... 1948-1949, 1952
Lugs. 198, 392
Mounts. 191-192, 197-198
Neutral Assemblies 190
Operating Mechanism Handles 298
Padlock Handles 191
Panel Brackets. 198
Rating Plugs. 196
Replacement Parts 198
Retaining Kits 191, 197
Trips. 198-199

CIRCUIT BREAKERS,
Arc Fault 188, 191, 197, 200
Automotive. 200, 965
Bolt-On. 188, 191-192, 196-202
DC 200
DIN Mount 192-195
GFCI (Ground Fault) . . . 188, 191-192, 200, 413
Load Center . . . . . 188, 190-191, 196-197, ... 199-200, 202
Main. 190-191, 196
Molded-Case 189, 192, 196-201
Motor Starter 189
Panel-Mount 191, 202
Panelboard. 188, 190-192, 196-202
Plug-In. 188, 191-192, 196-197, 199-202
Tandem 188, 191
Temporary Power Box 413

CIRCULAR CHART RECORDERS 598

CIRCULAR SAW
Blades 720-721, 734-735
Wheels. 2384

CIRCULAR SAWS
. . . . . 666-667, 669, 674, 677, 683, 686-687, ...689, 694-695, 717, 724, 731-732, 736

CIRCULATOR
Fans. 2915-2922
Pump Gaskets 2658-2659
Pump Kits 2658
Pump Motors. 60, 2658
Pumps . . . . . 2638-2639, 2643, 2648-2649, ... 2657, 2659-2660, 2691, 2698
Timers 2658-2659

CIRCULATORS,
Air 2915-2922
Greenhouse 2919
Lab. 640
Water 2643, 2657, 2659-2660

CLAMP
Brackets. 2535
Pads. 833-834
Replacement Parts 2536
Sets 837-838, 2055, 2316, 2534, 2536
Shoes. 833
Stands/Supports 657, 833, 836, 2316

CLAMP-ON
Bucket Forks 1177
Current Probe Adapters 542
Current Probes. 540-541, 558

CLAMP-ON METER CASES 1779

CLAMP-ON METERS,
Ammeter 537, 540-544, 546, 551-552, 562
Analog 544
Current. 537, 540-544, 546, 551, 562
Digital 537, 540-544, 546, 551-552, 562
Earth/Ground Tester. 540, 555
Power 537, 540-544, 546, 551-552, 562
Power Factor 551
Resistance. 537, 540-544, 546, 555
True RMS 541-544
Voltage. 537, 540-544, 546, 551, 562
Wattmeter 551

CLAMPS,
2-Bolt. 2531
Accumulator 2494
Air Hose 2531-2535
Angle 834
Automotive. 924, 2055, 2531-2533
Band 918, 2055, 2531-2533, 2535, 2612
Bar. 833-834, 836, 2425
Barrel. 924, 1145
Battery. 924
Beam . . . . . 316, 318-319, 321, 1061, 1065, ... 1092, 2828-2829
Blunt Edge 2317
Bolt 2535
C- 316, 833, 835, 837-838, 1711, 2829
Cable 230, 317-318, 410, 1088, 2078, 2629
Cam Action. 2318
Cantilever. 834
Chain 837, 2333
Channel 316, 394, 2825
Conduit 316-319, 321
Crimp. 2534
Cushioned 2826-2827, 2830
Double-Bolt 2531
Dovetail 2316, 2318
Dovetail Fixture 2316, 2318
Drain 2725
Drill 2316
Ear. 2534
Enclosure. 294, 296
ESD 392
F- 833, 836
File-Hanging 1347
Fixture 2317-2318
Framing 316-317, 834
FRL Connector 2595, 2601
Ground 392, 557, 1711, 2416, 2424-2425
Guardrail 1789
Hand-Grip 2320
Hold-Down. 1711, 2320, 2322, 2541
Horizontal Handle 834, 2319-2320
Hose. 2055, 2531-2536, 2612, 2830
J- 836
Knife Edge 2317
L- 836
Laboratory 657
Latch 2319
Lift 1061
Locking 837-838, 2319-2320
Loop. 2078
Low-Profile 2317
Machining . . . . . 834, 837-838, ... 2316-2318, 2322, 2346
Malleable Iron 319
Milling 2316, 2346
Nylon 317, 410
P- 317, 410, 2078
Parallel. 392, 833
Pinch-Off 838, 3010
Pipe . . . . . 316-319, 323, 392, 833, 2409, . . .2425, 2780, 2788, 2818, 2824-2831, 2847
Plate. 1065, 2830-2831
Plunger 2320
Pneumatic 2541
Push-Pull 2320
PVC Saddle 2680
Rail-Mount Plumbing. 2830-2831
Riser 2827
Rivet. 2135
Rod 392
Saddle 317, 2680, 2818
Shaft Alignment. 2333
Sheet Metal 837-838
Signal. 565, 866
Spring 834, 2534
Stainless Steel. . . . . 319, 2055, 2319-2320, ...2425, 2531-2534, 2788, 2826-2827
Steam Hose 2531
Stepless. 2534
Strap 2533, 2535
Strut. 316-317, 2826-2827
T-Slot 2322
Table 833
Terminal Block. 395
Toggle 834, 2319-2320, 2541
Trim 191
Tubing . . . . . 319, 2055, 2078, 2531-2535, ...2612, 2825-2828, 2830-2831
Vertical Handle 2319-2320
Welding . . .834, 836-837, 2416, 2420, 2424-2426
Wheel. 957
Window Cleaning. 1551
Wire 318, 392, 1059, 2078, 2420
Wire Rope 318, 1088
Worm-Drive 2055, 2531-2533

CLARIFIERS,
Pond UV 2639
Pool Maintenance 1480

CLAW HAMMERS 826, 861, 863

CLAY
Floor Absorbents 1845
Spades. 713-714

CLEANERS,
Abrasive. 910, 1481, 1513, 1549
ABS 2819
Adhesive Solvent. 1517, 2216, 2227, 2236
Air . . . . . 719, 1505-1506, 2363, 2408, ... 3059-3061, 3093
Aircraft. 901, 908-910, 922, 939
Alkaline 939, 1509
Antibacterial . . . . . 1503-1504, 1510-1513, ... 1520-1522, 3011
Antimicrobial . . . . . 1503-1504, 1510-1512, ... 1520-1522, 1549, 3011
Aqueous. 939, 1509, 1518, 2446
Automotive. . . . . 232, 896-897, 900-903, ...906, 908-911, 922, 938-939, 2446
Automotive Prewax 910
Baseboard 1523, 1578
Bathroom. . . . . 1503-1504, 1510-1511, 1513, ... 1515, 1519-1523, 2446
Battery. 922
Bio-Based . . . . . 1502-1504, ... 1513, 1515, 1518-1519
Biodegradable. . . . 939, 1503, 1513, 1517, 2446
Body. 1496, 1498
Bonnet 1517, 1520, 1522
Brake 901, 908
Brass 910, 1518
Bug-Removing. 908, 1519
Carburetor/Choke 897, 900
Card Reader. 534
Carpet 910, 1517, 1520-1522, 1577
Citrus-Based 1519, 2446
Coil. 2446, 3011-3013
Computer. 1354
Concrete . . . . . .1519, 1524, 1549, 1604, ... 1613, 1631, 1634
Condenser Coil. 2446, 3011-3013
Contact 901, 2446, 2448-2449
Countertop. . . . . 1503, 1508-1510, ... 1513, 1518-1519
CPVC 320, 2819

Degreaser . . . . . 232, 642, 901, 908, 922, ... 938-939, 1508-1514, 1519-1522, 1524, ... 2342, 2446-2449, 2460, 2963
Desk 2446
Dish 1515
Disinfectant/Sanitizer . . . . . 1503-1504, . . . 1509-1514, 1517, 1520-1523, 2446, 3011
Disinfectant Wipe 1510, 1512, 1514
Drain . . . . . 863, 865, 1504, 1521, 2437, ... 2751, 3010, 3012
Dry-Erase Board 1367
Dye Penetrant 2427, 2494, 3009
Electronics 232, 901, 2446, 2448-2449
Engine 896-897, 900-901, 908, 939, 2446
Evaporator Coil 3011
Evaporator Pan 3012
Extraction 1517, 1520, 1522
Fiber-Optic 232, 363
File 820
Floor . . . . . 1509, 1513, 1520-1524, 1533, 1536, ... 1542, 1578, 1581, 1604, 1845, 2446
Foam Gun 2236
Food Service . . . . . 1508-1509, 1514, ... 1520, 1522, 2446
Fuel Injector 896, 900
Fuel System 896-897, 900
Fungicidal 1503, 1510-1512, 2446
Gasket 2216
Gasket Remover 2227
Germicidal . . . . . 1503-1504, 1509-1514, ... 1517, 1520-1523, 2446, 3011
Glass . . . . . 642, 902, 909, 1502, 1510, ... 1513, 1518, 1520-1522, 2446
Granite 2342
Grill 1514, 1549, 2446
Grout 1503, 1519, 1522
Gum Remover 1517, 1519
Heavy-Duty . . . . . 908-909, 922, 1509, ... 1513-1514, 1519-1523, 2216, 2446
HEPA Air 719, 3059-3061
Ice Machine 3003, 3011
Ink 939, 1403
Leather 910, 1518
Lens 1666
Lubricant 2439, 2460
Marble 1519
Markerboard 1367
Media Air 719, 2363, 3059-3061, 3093
Metal . . . . . 232, 642, 901, 908-910, 922, ... 938-939, 1510, 1518-1519, 2446, 2963
Mold and Mildew 1503, 1519, 3011
Monitor 232
Multipurpose . . . 232, 908-910, 922, 1502-1504, . . . 1509-1510, 1512-1513, 1518-1523, 2446
Neutral . . . . . 939, 1509, 1513, 1518, ... 1520-1524, 1581, 2446
Nonabrasive . . . . . 908, 922, ... 1503-1504, 1513, 1519
Nonflammable . . . . . 939, 1503, ... 1518-1519, 1523, 2446
Odor-Reducing 1504, 3011
Office 1367, 2446
Outdoor 1519, 1631, 2446, 2963
Oven 232, 1461, 1514
Paint Roller and Brush 1613, 1620
Parts . . . . . 232, 642, 901, 908, 938-939, ... 2446-2449, 2460
Pavement 1631
Peroxide 1512, 1520-1522
Pipe 320, 869, 2223, 2751, 2819
Porcelain . . . . . 1503-1504, 1518-1519, ... 1522, 1549, 2446
Powdered Abrasive 1504, 1524
Precision 232, 901, 2446, 2448-2449
Premeasured . . . . . 1502-1503, 1508, ... 1511-1512, 1520-1524
Pressure Washer 1519, 2446
Pretreatment 1517, 1520-1522, 2963
PVC 320, 2819
Radiator Flush 903
Respirator 1775
Restroom . . . . . 1503-1504, 1510-1511, 1513, ... 1515, 1517, 1519-1523, 2446
Rig 908
Rotary 1593
Rust 1503, 1519, 2702, 2963
Scouring 1503-1504, 1513, 1521
Shower 1503-1504, 1520-1522, 1824
Simple Green . . . . . 1500, 1503, ... 1509, 1513, 1517-1519
Stainless Steel . . . . . 909-910, ... 1510, 1518, 2446
Steam 1590
Sump and Machinery 2460
Surface . . . . . 642, 1503-1504, 1508-1514, ... 1518-1522, 1524, 1593, 1613, 1634, ... 2342, 2446, 2963
Tar-Removing 906, 908, 910, 1517, 1519
Tile . . . . . 1503-1504, 1513, 1519-1522, ... 1549, 1578, 2446
Tire 909-910, 1508, 2446
Toilet Bowl . . . . . 1504, 1513, 1519-1520, ... 1522-1523, 1549
Tub and Tile 1503, 1513, 1520-1521
Ultrasonic 642
Upholstery 910, 1517, 1519, 1578
Urinal 2759
USDA BioPreferred 1513, 1515
Vacuum . . . . . 670, 678, 685, 689, 693, ... 719, 1563-1573, 1580
Vinyl 910, 1519
Virucidal . . . . . 1503-1504, 1510-1512, ... 1520-1522, 2446
Wall 1524, 2446
Water Softener 1519
Weld 2427-2428
Welding and Soldering Tip 232, 2428, 2431
Welding Fume 2408, 3060
Wheel 909-910
Whiteboard 1367
Wood 1518-1519

CLEANING MACHINES,
Bathroom 1578

CLEANROOM
Air Filters 3056, 3059
Casters 1335
Chairs 1334-1335
Coveralls 1738
Gloves 1671-1673
Lifts 1183
Lighting 439
Lighting Fixtures 439
Masks 1738, 1758
Mops 1531
Polybag Tubing 1408
Receptacles 1554
Stools 1335
Vacuum Cleaners 1564, 1572
Wipers 661, 1492

CLEATS,
Boot/Shoe 1747
Shelving 1250

CLEVIS
Brackets 2537-2540
Hangers 316, 2824
Hooks 1070-1071, 1073

CLEVIS PINS,
Grooved 2151
Headless 2151
Standard 2151

CLEVISES,
Cylinder 2480, 2539-2540

CLIMBERS,
Hand Truck Stair 1184-1185, 1188

CLIP
And Thimble Kits 1088
Magnets 829-830
Rules 884, 2335
Sleeves 373

CLIPBOARDS 1382

CLIPS,
2-Way Radio Belt 2024, 2029, 2031-2032
Air Filter Pad 3057
Air Hose Safety 2531
Alligator 549-550, 824, 924
Auto Body 2055
Badge Strap 1966, 1970
Band Clamp 2535
Battery 924
Binder 829-830, 1359
Bulldog 829-830, 1359
Cable 317-318, 410
Conduit 317-318
Cubicle Wall Paper 1358-1359
Dimmer Control 470
Dismount 2806
Drywall 889
Filter Frame 3057
Flange 312, 317-318
Fuse 160, 175-176
G- 1900
Gas Detector 1779
Glove 859-860, 1701
Grating 1900
Hairpin 2150
Hanging Bin 1329
Hitch Pin 2150-2151
Hook 549
Hose Fastening 2531, 2618
Pad Holding 3057
Pallet Rack Mounting 1229
Paper 829-830, 1359
Pegboard 1329, 1331
PEX to Wire 871
Pipe 2586, 2807
Raceway 304-307
Relay 216
Roof 3067
Safety Harness 1798
Socket 771, 775-777, 779
T- 2618
T-Bar 317-318
Test 537, 546, 549-550, 924
Test Lead 537, 546, 549-550
Trailer Hitch 958
Tubing 2618, 2764, 2807
Voice/Data Cable . . . . . 303-304, ... 317-318, 410, 1338
Wire Management . . . . . 303-307, 317-318, ... 410, 1338, 2618
Wire Rope 317, 1088

CLOCK
Controls 1375
Radios 2033
RF-Frequency Transmitters 1375

CLOCKS,
24-Hour 1374-1375
Alarm 587, 2036
Atomic 587, 1374-1375
Automotive 950
Battery-Operated 587, 950, 1374-1375
Counting 1375
Digital 225, 587, 950, 1374-1375
Office 1374-1375
Payroll 1375
Quartz 1374
Radio-Controlled 587, 1374-1375
Recorder 1375
School 1375
Thermohygrometer 583, 587
Thermometer 586-587
Time 1375
Wall 1374-1375
Wireless 1375

CLOSED-CIRCUIT TELEVISION CAMERAS 2045-2048

CLOSERS,
Door 298, 1990-1993
Pail Lid 1136, 1605

CLOSET
Augers 863
Bends 2808-2809
Locksets 1982, 1986, 1988
Organizers 1476
Pole Socket Brackets 1476
Pole Sockets 1476
Poles 1476
Shelves 1476

CLOSURES,
Laboratory 652

CLOTHES
Bars 1171
Dryer Connectors 2717
Dryers 1466
Drying Racks 1475
Hampers 1475, 1535
Hangers 1476

CLOTHESLINES 1475, 2746

CLOTHESPINS 1475

CLOTHING HOOKS . . . 2019-2020, 2760-2762

CLOTHING,
Abrasive Blasting Protective 1771
Aluminized 1715
Arc-Flash-Protective . . . . . 1707-1709, ... 1712-1714, 1728, 1740
Chemical-Protective . . . . . 1672, 1728-1730, ... 1733-1734, 1737, 1739-1740
Cleanroom 1672, 1734, 1738
Cold-Water-Protective 1810
Cooling 1828
Cut-Resistant 1686, 1721, 1733
Disposable . . . . . 1672, 1714, ... 1729-1730, 1734-1740
Electrical-Protective . . . . . 1703, 1707-1709, ... 1712, 1714, 1728, 1740
EMS/Medical 1811
Firefighting/Search and Rescue 1815
Flame-Resistant . . . . . 1703, 1707-1709, ... 1713, 1715-1717, 1727-1728, ... 1735, 1739-1740, 1815, 1828
Flame-Retardant 1714-1715
Flotation 1808-1810
General Work . . . 1623, 1719-1723, 1734, 1740
Heat-Protective 1707, 1715-1717, 1815
Heat-Reflective 1715
High-Visibility . . . . . 1712-1713, 1724-1728, ... 1730, 1811, 1828, 1905
Insulated . . . . . 685, 1713, ... 1718-1721, 1726, 1811
Laboratory 1672, 1734-1735, 1737-1740
Molten Metal-Resistant 1715
Public Safety/Tactical 1811-1813, 1905
Rain 1727-1730, 1811
Thermal 1720, 1726
Tyvek 1672, 1735, 1737-1739
Waterproof 1727-1730, 1811
Welding 1703, 1715-1717

CLOTHS,
Cleaning . . . . . 908, 911, 1367, 1492, 1524, ... 1535-1536, 1538
Drop 1100-1101, 1623
Dust 911, 1524, 1535-1538
Microfiber . . . . . 911, 1492, 1524, ... 1535-1536, 1538
Plumber's 2368
Polishing 908, 911, 1492
Pool Table 1479
Stain Applicator 1622
Wash 1472

CLUTCH
Brakes 95
Controls 95
Covers 95
Plates 1583

CLUTCHES 95

CNC TOOL RACKS/CARTS 2313

COALESCING FILTER ELEMENTS . . . . . 2575, 2585, 2589-2594, ... 2596-2599, 2601-2603

COALESCING FILTERS 2591-2592

COAT
Aprons 1734
Hangers 1476
Hooks 2019-2020, 2760-2762

Rack Rods 1171
Racks 1171, 1341, 1476, 2020

COATERS,
Asphalt 1544

COATING
Removal Discs 2382
Thickness Testers 569

COATINGS,
Acrylic 232, 1599-1600, 1603-1604, 1606, 1609, 1630, 1632, 1634
Aerosol 906-907, 3012
Alkyd Enamel 907, 1601
Antimicrobial 1599
Antiseize 2443-2445
Antiskid 1523, 1604, 1609, 1634
Asphalt 1630-1633
Automotive Parts 907
Ceramic 1599
Chemical-Resistant 1601-1604, 1634
Clear 907, 1601, 1604, 1606, 1609, 1634
Concrete . . . 1599, 1602-1604, 1612, 1632-1634
Electrical 380, 905, 2443
Enamel 907, 1600-1601, 1604, 1606-1607, 1609
Epoxy 1602, 1604, 1606, 1631, 1634
Firestop 1884
Floor 1523, 1599, 1602-1604, 1634
Heat-Resistant 1603
Hot Melt 2185
Latex 1599
Maintenance 906-907, 1599, 1601-1604, 1609, 1634
Masonry 1596, 1598-1600, 1602, 1604, 1632, 1634
Nonslip 1523, 1604, 1609, 1634
Polyurethane 1634
Primer 1599-1600, 1602, 1634
Roof 1630, 2724
Rust Converter 906, 1600
Solvent-Based . . . 1599, 1602, 1604, 1631, 1634
Spray 232, 906-907, 1603, 1609, 3012
Spray Booth 1624
Spray Primer 906-907, 1598, 1606-1608
Tool 2185
Truck Bed Liner 907
Urethane 1603-1604, 1634
Vehicle 907
Water-Based 1599-1600, 1602-1604, 1609, 1624, 1630-1631, 1634
Water-Repellent 1599, 1602
Waterproof 1599, 1604, 1634, 3012
Weatherproof 1604, 1634

COATS,
Arc Flash 1707-1708, 1728, 1740
Flame-Resistant 1708, 1713, 1715-1717, 1727-1728, 1735, 1740
Heat-Protective 1715-1717
Lab 1735, 1737-1738
Rain 1727-1730, 1811
Thermal 1719-1720

COAXIAL CABLE
Connectors 351, 355-356, 360, 376, 561
Crimpers 365-366, 389, 671, 678, 814, 847, 853
Cutters 366, 817, 845
Strippers 365-366, 841, 846, 854

COAXIAL CABLES 350-351, 358

CODDINGTON MAGNIFIERS 2340

CODE DATERS 1403

COFFEE
Brewers 1438-1439
Creamers 1440
Cup Lids 1431
Cups 1431-1432, 1445
Decanters 1439
Filters 1443
Grinders 1438
Maker Cleaning Brushes 1548
Maker Replacement Parts 1461
Makers 1438-1439
Mugs 1444
Servers 1439

COFFEES 1437

COGGED BELTS 97, 99, 103-105

COIL
Brushes 1117, 1546, 3095
Bulb Controls 3024
Chocks 1105
Cleaner Sprayers 3011
Cleaners 2446, 3011-3013
Connectors 2475, 2477, 2542-2544, 2549
Flush Tools 3012-3013
Hoses 962
Nails 2499

COILS,
Cased Evaporator 3091
Contactor 162-164, 170, 173
Duct Heater 3078
Evaporator 3091
Lighting Contactor 163
Magnetic 162-164, 170, 173
Motor Starter 162-164, 170, 173
Solenoid Valve 2475, 2544-2546, 2549, 2873, 2883, 3017, 3092
Trip 198
Uncased Evaporator 3091
Valve 2475, 2544-2546, 2549, 2873, 2883, 3017, 3092

COIN ENVELOPES 1361

COLANDERS 1450

COLD
Chisels 712-715, 821-822, 862
Galvanizing Compounds 1603, 1606, 1608, 2428, 2445
Medicines 1830
Packs 1402, 1829, 1831-1834
Saws 736
Water Pressure Washers 1587-1590
Water Rescue Clothing 1810

COLD-SHRINK
Tools 860
Tubing 376, 378

COLLAPSIBLE
Containers 1000, 1299-1301
Drums 2363
Trash Cans 950, 1000

COLLARS,
Air Duct 3097, 3102
Diffuser 3102
Drain 2725
Drill Stop 123
Firestop 1883
Floor 312
Pipe 1883
Safety Cone 1911
Shaft 122-124
Traffic Cone 1911
Wall 2934, 3096

COLLECTORS,
Dust 683, 710, 719, 2363, 2403, 3060
Rain 1012

COLLET
Bodies 2420
Chucks 2311, 2346
Nuts 724
Sets 729, 2312, 2346

COLLETS,
Coolant 2312
Die Grinder 723
Drill 729, 2312, 2346
ER 2311-2312
Milling 729, 2312, 2346
R8 2346
Spring 2312
Tapping 2265, 2313, 2315
Welding 2420

COLORIMETERS 627, 631

COLUMN
Protector Straps 1132
Protectors 1132

COLUMNS,
Pedestal 258

COMBINATION
Cabinets . . . 1268, 1272-1274, 1277-1278, 1337
Lock Boxes 1968
Locks 1960-1961
Padlocks 1960-1961
Pliers 814, 838-839, 841, 846, 848, 854-855, 861, 863
Safes 1968
Socket Sets 758-759
Square Blades 2334
Square Clamp Screws 2333
Square Heads 2334
Squares 884, 2334, 2425
Wrenches 758, 765, 787-793, 859, 861, 863

COMBS,
Fin 918, 3010

COMBUSTIBLE GAS DETECTORS
. . . . . 622, 1777, 1779-1781, 3010

COMBUSTION
Analyzers 617, 623
Blower Motors 60
Testers 617, 623

COME-ALONGS 1057-1059

COMMUNICATIONS
Cable Support Hooks 318
Cables . . . 155, 348-352, 354, 357-359, 361-362
Modules 214, 224-225, 355-356
Mounting Brackets 317-319
Testers 362-365

COMPACT FLUORESCENT
Ballasts 423, 472-476
Lamps 485-489, 494, 520
Lighting Fixtures 449-450, 454
Portable Lighting 396, 518, 520, 522

COMPACTORS,
Vibratory Plate 1009

COMPARATORS,
Optical 2333

COMPASSES 884

COMPONENT
Boxes 561
Labels 305, 367, 369-371, 373

COMPOUND
Gauges 570, 573-579
Tubing Benders 868, 3010

COMPOUNDS,
Epoxy Potting 2217
Galvanizing 1603, 1606, 1608, 2428, 2445
Heat Sink 232, 590, 3012
Heat Transmission 3012
Ice Melting 902, 994
Joint 1597, 1632, 2224, 2443
Nonmetallic Thread 2443
Patching 1597, 1630-1633, 2172, 3012
Pipe 2224, 2820
Retaining 2223
Rubbing 910
Sealing 1597, 1632, 2224, 2226, 2231, 3012
Silicone 2439, 2441, 2452
Spackling 1597, 1630
Sweeping 1542, 1845

COMPRESSED AIR
Automatic Drains 2597
Condensate Separators 2571, 2576, 2590
Drain Valves 2572-2573, 2597
Dryers 2565-2566, 2587-2589
Fans 2583
Filter/Regulator/Lubricators 2595, 2598, 2600-2602
Filter/Regulators 2594, 2597, 2599, 2601
Filter Replacement Parts 2591, 2596, 2602
Filters 1626, 2575, 2590-2594, 2596-2598, 2600-2603
Line Tools 2586
Lockout Valves 2603
Lubricator Replacement Parts 2597
Lubricators 2595, 2597, 2599, 2601, 2603
Regulators 2543-2544, 2594, 2596, 2600-2601, 2603
Relief Valves 2603
Silencer/Mist Eliminators 2603
Sprayers 935, 994, 1000-1002
Vortex Tube Coolers 2583

COMPRESSED GAS DUSTERS
. . . . . 232, 1354, 2446

COMPRESSION
Connectors 315, 351, 360, 366, 379-380, 382
Couplings 315, 2818
Fittings, Temperature Probe 230
Latches 2016
Packing Extractor Tools 2700, 2751
Packing Seals 2699
Sleeve Pullers 2751
Socks 1757
Springs 2158-2160
Testers 568, 920
Tubing Fittings 962, 2764, 2854-2860

COMPRESSOR
Aftercoolers 2586
Air Filters 2567-2568, 2575-2576, 2584
Air/Oil Separators 2567
Air Tanks 2570-2571
Battery Tray Kits 2561
Belts 2567
Blowers 2584
Check Valves 2550, 2574-2575
Contactors 3035
Controls 220, 287-288, 290, 2571, 2574-2575, 3018
Filter Elements 2567, 2576
Filter Silencers 2575-2576
Filters 1771, 2567-2568, 2575-2576, 2584
Hard Start Kits 3031
Hose Clamps 2532-2535
Lubricants 898, 2454-2455, 2457, 2567-2568, 3007
Maintenance Kits 2567
Motor Starters 165, 167
Motors 36, 42
Mufflers 2575-2576
Oil Filters 2567
Oil Kits 2567-2568
Oil Monitors 2564
Oils . . . 898, 2454-2455, 2457, 2567-2568, 3007
Pressure Switches 287-288, 290, 3016
Protection Controls 3018
Pumps 2562, 2568-2569, 2578-2581
Regulators 2596
Relief Valves 2573-2574
Repair Kits 2580
Ring Mufflers 2575
Safety Valves 2573-2574
Silencers 2575-2576
Start-Up Kits 2567-2568
Tanks, Portable 2570
Tanks, Stationary 2570-2571
Throttle Controls 2574-2575
Vacuum Pumps 2578-2580

COMPRESSOR/GENERATORS . . . 2560, 2562

COMPRESSORS,
Air 955, 2496, 2559-2566, 2577-2580
Air Conditioner 3014
Battery-Powered 955
Breathing Air 1770-1771
Climate Control 2562, 2577, 2580

DC-Operated 2559, 2579-2580
Diaphragm 2578
Diesel-Powered 2561-2562
Electric 2496, 2559-2560, 2562-2566, 2577-2580
Gasoline-Powered 2560-2562
HVAC 2562, 2577, 3014
Oil-Less 2559-2560, 2577-2580
Piston 2579-2580
Piston Ring 920
Portable 955, 2496, 2559-2561, 2579
Regenerative Blower 2584
Ring 2584
Rotary 2578
Rotary Screw 2562, 2565-2566
Stationary 2559-2566, 2577-2580
Vacuum Pump 2578-2580
Valve Spring 920
Vehicle-Mounted 2559

COMPUTER
Air Conditioners 2996
Cabinets 353, 1328
Cable Adapters 361
Cable Trays 1338
Cables 155, 224, 348-350, 352, 354, 359, 361-362, 2328
Cart Power Strips 1343
Carts 1328, 1343, 1353
Casters 1195-1196, 1198-1199, 1209-1211, 1213-1214
Cleaning Kits 1575
CPU Holders 1321, 1339, 1343
Desks 1328, 1339
Disposal Kits 512
Furniture 1338-1339
Keyboards & Holders 1321, 1354
Links, Gas Detector 1777-1780
Locks 1353
Mice & Trackballs 1354
Monitor Stands/Mounts 1321, 2023
Monitors 2050
Peripheral Blowers 38
Power Cords 399-400
Racks 1343
Stands 1321, 1328, 1339, 1343
Wipes 232, 1512, 1518
Workstations 1328, 1338, 1343

CONCESSIONS EQUIPMENT & CARTS . . . 1458

CONCRETE
Adhesives 891, 1597, 1631-1633, 1904, 2172, 2217, 2226, 2229-2233, 2724, 2819, 2834
Anchor Pin Drivers 2147
Anchors 1632, 1790-1792, 2147, 2162-2168, 2170
Bits 709, 711-716, 2161, 2166
Bolts 2147
Breakers 673, 710, 715, 2513
Brushes 1544, 1579
Bubble Removers 148-149, 670
Cleaners 1519, 1524, 1549, 1604, 1613, 1631, 1634
Coatings . . . 1599, 1602-1604, 1612, 1632-1634
Dissolvers 1631
Drill Bits 709, 711-714, 2161, 2166
Drills 665, 667-668, 675, 683, 687, 690, 693, 710, 714
Epoxy Enamel 1604
Finishing Tools 892
Floor Grinders 719
Hangers 2147, 2168
Hardeners 1632
Hoes 862
Mix Tips 2172
Mixer Drums/Drum Lids/Stands 893
Mixers 891, 893
Mixing Containers 892
Moisture Meters 600
Nailers 2500
Paints 1596-1600, 1602, 1604, 1607-1612, 1630, 1634
Patching Compounds . . . 1597, 1631-1633, 2172
Placers 892
Repair Materials 1597, 1631-1634, 2172
Rubbing Bricks 892, 2393
Saw Blades 719-721
Saws 673, 717-718
Sealants 905, 1599, 1604, 1612, 1632-1634, 2221, 2230-2233, 2724
Sprayers 1001-1002
Stain Removers 1519
Stains 1634
Vibrators 148-149, 670

CONDENSATE
Drains 298, 2572-2573, 2598, 3010
Pump Kits 2662, 2997
Removal Pumps . . . 2582, 2661-2662, 2997, 3007
Return Systems 2661
Separators 2571, 2576, 2590
Switches 2662, 3092

CONDENSER
Coil Cleaners 2446, 3011-3013
Fan Blades 2950
Fan Controls 3031
Fan Motors 39, 44, 47, 49, 51-55, 63-64
Line Sets 3094
Mounting Brackets & Pads 3091, 3094
Security Cages 3094

CONDENSERS,
HVAC 3091

CONDIMENT
Containers 1443
Dispensers 1443
Pumps 2667-2668
Serving Centers 1434, 1443
Trays 1443

CONDITIONERS,
Brake 899
Fuel 896-897, 900
Leather 910
Line 205, 208
Medicated Skin 1498
Power 205, 208, 353

CONDUCTIVE
Bin Dividers 1286, 1294, 1305
Bins 1286, 1302
Lubricants 232, 2443
Mats 1891, 1897
Paste 590
Racks/Rail Units 1280

CONDUCTIVITY
Meters 627-629
Sensors/Transmitters 630
Solutions 628

CONDUIT
Adapters 280, 304, 320, 430
Bender Handles/Shoes 850
Benders 850
Blanks 308-309, 320
Bodies 313-314, 320-321
Boxes 72, 74, 85, 95, 308-309, 311-312, 320-321
Bushings 315, 319, 323-324
Caps 315, 320
Clamps 316-319, 321
Clips 317-318
Connectors 306, 308, 313, 315, 317-324, 407, 449, 3035, 3046, 3094
Covers 309, 311, 314, 316
Cutter Replacement Parts 869-870
Cutters 305, 307, 318, 736, 845, 853, 869-870, 2618
Firestop Sealants 1883-1884
Fitting Screwdrivers 848
Fittings 308, 313-315, 317-324, 2828
Gaskets 314, 322
Grips 327
Hangers 316-321, 2824
Hole Seals 298
Hubs 313, 315, 321
Kits, Air Conditioner 3094
Knockout Plugs 315
Locknuts 315, 320, 326, 407
Markers 373
Measuring Tape 849
Meter Offsets 320
Mice 849
Nipples 280, 313
Nonmetallic Fittings 314, 320, 322, 449
Pistons 849
Plugs 315
Reducers 315, 320
Straps 317-320
Supports 308, 316-318, 407, 2824

CONDUIT,
Aluminum 313-314, 324
Electrical 313-314, 320-322, 324
EMT 313
Firestop 1884
Flexible 321-322, 324, 3094
Food-Grade 321
GRC 313
IMC 313
Intermediate 313
Liquid-Tight 321-322, 324
Nonmetallic 320-322
PVC 320, 322
Rigid 313
Stainless Steel 313, 324
Steel 313-314, 321, 324
Thin-Wall 313

CONE
Accessories 1527, 1906, 1910-1911
Bars 1911
Fans 2928

CONES,
Abrasive 2391-2392
Channelizer 1910
Grinding 2391
O-Ring Measuring 2173
Pallet Stack Warning 1424
Safety 1527, 1910-1912
Tapered Roller Bearing 138
Tire Buffer 954
Traffic 1910-1912

CONFERENCE
Room Chairs/Tables 1336-1337

CONFINED SPACE
Blower Ducting 1784-1785
Blowers/Ventilators 1784-1785
Duct Storage Bags/Canisters 1785
Entry Safety DVDs/Videos 1943
Gas Detectors 1777-1780
Guardrails 1783
Heaters 1783, 3070
Rescue Wristlets 1787
Retrieval Systems/Components 1786-1787, 1808
Signs 1527, 1919, 1922
Tags 1938
Training Materials 1943
Tripods 1787
Winches 1783, 1787

CONNECTOR
Boots 337-338, 389
Cables 155, 224, 278, 283, 323, 354, 358, 362, 2480, 2716
Crimpers 365, 381-384, 389, 814, 839, 841, 846-848, 853-855, 859, 924
Insulators 376-378, 389
Kits 565
Nuts 326

CONNECTORS,
2-Piece Conduit 315
Acetal Push-to-Connect 2850
Air Line 962, 2519-2522, 2586
Anchorage 1790-1792, 1801, 1806
Angled 322, 449
Appliance 2521, 2717-2718, 3096
Battery Cable 666, 923-924
Belt 1115
BNC 351, 355, 561
Brass Barbed 2530, 2849, 2854
Brass Compression Tubing 962, 2854-2856, 2859
Brass Flare Tubing 2853-2855, 2859
Brass Instrumentation Tubing 2859
Brass Pipe 2724
Brass Push-to-Connect Tubing 962, 2556-2558, 2806-2807, 2850-2852
Brass Tubing 962, 2530, 2556-2558, 2806-2807, 2849-2856, 2859
Brass Waste 2723-2724
Bullet 322, 383
Butt 383, 386, 388-389
Cable 323-324, 326-327, 336-340, 351, 355-356, 358, 360, 376, 379-381, 389, 561, 923-924, 2424
Charger 923
Clamp-Type 324, 1308
Closed End 386
Clothes Dryer 2717
Coil 2475, 2477, 2542-2544, 2549
Compression 315, 351, 360, 366, 379-380, 382
Conduit 306, 308, 313, 315, 317-324, 407, 449, 3035, 3046, 3094
Conveyor Belt 1115
Cord 325-327, 336-339, 355-356, 440
CPVC Pipe 2812, 2815, 2818
Dinse 2424
DisplayPort 361
Drain and Trap 2821
Duct . . . 293, 1784-1785, 2945, 2949, 2995, 3097
Ducting Hose 2612
DVI 361
Electrical 262, 306, 326-327, 334, 336-342, 376, 378-381, 383-392, 2656, 2883, 3035
End Block 2598
F- 351, 355-356, 360, 366
Faucet 2718, 2723, 2764, 2807, 2850
Female Electrical 355
Fiber-Optic 356, 358, 536
Flexible 319, 322-324, 449, 2718, 2821, 3013, 3094
Flexible Metal 319, 322-324, 3013
FRL 2595, 2598, 2601
Furnace 2717
Gas 2420, 2717
Grounding 322, 387, 391-392
Guardrail 1133-1134, 1789
HDMI 356, 360-361
Heat Gun 738-739
Heater 2717, 3070-3071
Hitch Safety Cable/Chain 958
Hose 407, 962, 1013, 2482-2485, 2522, 2530, 2612, 2764, 2806
Hose Barb 2519-2522
Hospital-Grade 334, 340
Ice Machine 2718
Insulation Displacement 389
Lighting Cable 376
Lighting Fixture 430, 449
Liquid-Tight Electrical 315, 322, 325-326, 342, 449
Locking 322, 336-340
Malleable Iron 324
Marine 334-336, 338, 341
Mechanical 387, 391-392
Miniature Strain Relief 326
Moveable Gas Appliance 2717
Multitap 390, 392
NEMA 4X 338-339
Nonmetallic Electrical 322, 326, 340-341, 449
Nylon Tubing 407
Oven 2717
PFA Compression Tubing 2856
Pigtail 333, 383, 386-387, 389
Pin and Sleeve 340-342
Pin Type 386
Plastic Compression Tubing 2856
Plastic Pipe 2821
Plastic Tubing 407, 2554-2555, 2807, 2821, 2850, 2856
Pneumatic 2586
Polybutylene Push-to-Connect Tubing 2554-2555
Polyethylene Tubing 2807
Polypropylene Push-to-Connect 2850
Polysulfone Push-to-Connect 2807
Power Cable 324, 923, 2420
Pump 2658, 2697-2698
PVC Pipe 2821

Quick-Connect Electrical 383, 387-389
Quick-Connect Hose 1521, 2522
Quick-Disconnect 383, 388-389, 924
Raceway 304-307
Range 2717
RCA 351, 355, 360
Refrigerator Water 2718
Ring 381, 383, 385
Robotic Cable 407
Screw Terminal 384
Self-Stripping 389
Set Screw 315, 387
Shrouded 338-339, 342
Single-Wire 340
Slip-On 2723
Solenoid Coil 2543-2544, 2549
Spade 288, 383-384
Splice 351, 356, 360, 376, 378, 381, 383, 386, 388-390, 392, 2656
Split Bolt 391
Squeeze-Type 324
Stainless Steel Compression Tubing 2857-2859
Stainless Steel Instrumentation Tubing 2857-2859
Stainless Steel Threaded 2851
Stainless Steel Tubing . 2718, 2851, 2857-2859
Straight 319, 322, 324-326, 381, 407
Straight-Blade 334, 339
Strain Relief 322, 324-327
Term-a-Nut 387
Terminal Strip 395
Thermocouple 230-231, 596
Twist-to-Lock 336-340
USB 355-356
Utility Locator 565
Valve 2475, 2477, 2542, 2549, 3043, 3045
VGA 360-361
Voice/Data 293, 307, 351, 355-356, 358, 360, 376, 389
Washing Machine 2718, 2723
Water Heater 2716-2717, 2806, 3096
Water Hose 1013, 1521, 2764, 2806
Watertight 322, 334, 337-342, 388
Welding Cable 2424
Welding Torch 2416, 2435
Wire 355, 376, 378, 380, 383, 386-392, 923-924, 961, 2656
Work Platform 1048

CONSOLES,
Weather Station 583

CONSTANT LEVEL OILERS 2463, 2465

CONSTRUCTION
Adhesives 891, 905, 1361, 1622, 1633, 1904, 2218, 2220, 2228-2229, 2232, 2237, 2819, 2834
Calculators 885
Contamination Control Enclosures 1122
Erosion Control Fencing 1010, 1012
Hard Hats/Helmets 1635-1637, 1709
Heaters 1783, 3068-3070, 3077, 3082-3085, 3087-3088
Reamers 2259
Sealants 1391, 2226, 2228-2233, 2236, 2819, 3012
Tape 1391
Temporary Power Boxes & Panels 412-413

CONTACT
Adhesives 2225, 2228, 2237, 2834-2835
Cement 1361, 2228, 2834-2835
Cleaners 901, 2446, 2448-2449
Dressings, Cable 2443
Reticles 2340
Tips 2414

CONTACT BLOCK MOUNTING BASES . . . 246

CONTACT BLOCKS,
22mm 245-248
30mm 253-254, 256-257
Auxiliary 160, 162-163, 165, 169-174, 176, 298
IEC 169-173
Limit Switch 264-265, 268-269
Motor Starter 162-163, 165, 170-173, 248
Pressure Switch 287-288
Push-Button 240, 244-249, 251, 253-254, 256-257
Selector Switch 246, 251, 256
Time Delay 169-170, 172

CONTACTOR
Coils 162-164, 170, 173
Contact Blocks 160, 162-163, 165, 169-174, 176, 298
Contact Kits 163, 165
H-O-A Selector Switch Kits 174
Links/Mechanical Interlocks 169, 171
Overload Contact Kits 174
Pilot Lights 163, 165
Timers 169-170, 172

CONTACTORS,
Compact 173
Compressor 3035
Definite Purpose 163, 173-174
IEC 168-173
Lighting 163
Magnetic 162-163, 168-174, 3035
Mercury 220
Motor 163, 168-169, 171-173, 220
Reversing 168-172

CONTACTS,
Alarm 174, 2053, 3036
Auxiliary 160, 162-163, 165, 169-176, 218, 298
Indicator 2332-2333
Lighting 163
Magnetic 2053
Motor Starter 160, 163, 165, 169-173, 218, 248
Power Connector 923

CONTAINER
Lids 1136, 1282, 1292-1295, 1297, 1300-1301, 1401, 1431, 1450, 1456, 1552, 1554-1556, 2461
Pallets 1135
Ramps 1127

CONTAINERS,
Adjustable-Chute 1301
Bulk 1137, 1299-1301, 1451, 1457
Carry-Out Food 1436
Chain 1055
Clear 1295-1296, 1450
Collapsible 1000, 1299-1301
Corrugated 1301, 1402
Diesel 1875
Drain Seal 1858
Flammable Material 1874-1876
Fluid Storage 234, 1137, 2461, 2695
Fold Down 1299-1301
Food Service 1286, 1292-1293, 1295, 1436, 1443, 1447, 1450-1451, 1456
Garbage 950, 1000, 1485, 1552-1558
Industrial 1137, 1292-1295, 1298-1301
Kerosene 1874
Lubricant 2461
Mobile 1299, 1304, 1309, 1451
Plastic 745, 994, 1136-1137, 1280, 1282-1298, 1300-1304, 1309, 1450, 1533, 2695, 2751
Recycling 512, 1301, 1558
Round 1136-1137, 1450-1451
Sharps Disposal 809, 1836
Shipping 994, 1136-1138, 1292-1293, 1295-1296, 1298-1301, 1304, 1402, 1457
Specimen 653, 656
Stack and Nest 1287
Stacking 1270, 1280, 1282-1283, 1286, 1289, 1292-1302, 1457
Steel 1137, 1289, 1299, 1301
Tool 747, 994, 1296, 1303-1304
Type I/Type II Safety 1874-1876
Water 1137, 1297, 1533
Welding Storage 756, 2416
Wire 1299, 1301

CONTAINMENT SHELTERS,
Dust 1122, 3060

CONTAINMENT,
Secondary Spill 931, 1251, 1525, 1857, 1860-1867, 1869, 1875

CONTINUITY TESTERS . . . 362-365, 536-546, 551-553, 556, 558, 562, 564-565

CONTOUR
Gauges 884
Markers 2422

CONTROL
Boxes, Submersible Pump 2655
Cables 344-345, 348-350
Calibrators 562
Center Timers 418
Fuses 177-181, 183-185
Keys 1960
Panels 229, 2052, 2330, 2655, 3030, 3081
Stations 240, 249-250, 275, 1125
Transformers 160, 205-207, 3033

CONTROL RELAY
Adder Decks 218
Enclosures & Latches 217-218
Mounting Tracks 216, 394
Transient Suppressors 163

CONTROL RELAYS,
Alternating 221
IEC 169-172, 218
NEMA 162, 172, 218, 220
Overload 161-164, 168-172
Pneumatic 3041, 3043
Power 215, 218
Solid-State 162, 164, 216, 219, 224, 278
Time Delay 172, 222-223
Transformer 3035

CONTROL SWITCHES,
Cable Pull 274
Disconnect 160, 167, 175-176, 298, 342, 3071, 3075, 3077, 3094
Drum 167
Electronic 260
Enclosed 167, 217, 220, 240, 249-250, 264-273, 275-277
Float 291, 2620, 2628-2629, 2640, 2678-2679, 3046, 3092
Foot 263
Limit 264-271, 276
Liquid Level 291, 2620, 2628-2629, 2640, 2678-2679, 3046, 3092
Motor 160-165, 167-169, 171, 174, 217, 219-220, 250, 259-260, 275, 287
Photoelectric 281-283, 414-416, 470
Powder Level 581
Pressure 290, 3016
Proximity 283-286
Selector 162-163, 240-242, 244, 246-247, 250-257
Snap-Action 263, 270, 272-273
Vacuum 291

CONTROLS,
2-Stage 3024-3026
AC Motor 153-158, 160-162, 164-165, 167-168, 174, 215, 217, 220
Access 1971-1980, 2033, 2035
Air Compressor 165, 220, 287-288, 290, 2571, 2574-2575
Air Conditioner 416, 2993, 2995, 3023, 3025, 3036
Air Volume 2656
Aquastat 3030
Attic Fan 2968
Building Automation 3027, 3045
Ceiling Fan 465
Clock 1375
Clutch/Brake 95
Coil Bulb 3024
Compressor 220, 287-288, 290, 2571, 2574-2575, 3018
Cooling 2891, 3023-3026, 3028
Cycle-Pilot 3033-3034
Damper 3101
DC Motor 27, 85, 158-159, 165, 217, 220
DC Speed 27, 85, 158-159
Definite Purpose Contactor 163, 173-174
Defrost 3018-3019, 3026
Dehumidifier 3028, 3093
Differential Temperature 3019
Digital Meter 226, 227, 229
Dilution 1520
Dock Door 1125
Electric Cooking 3032
Fan 153-158, 167, 217, 220, 416, 419-420, 465, 2917, 2922, 2944, 2946, 2949, 2955, 2968, 3016, 3024, 3028, 3033-3035, 3103
Fan Center 3035
Fan Speed 154, 157, 465, 2917, 2922, 2929, 2944, 2946, 2949, 2955, 3103
Furnace 220, 3033-3034
Garage Door 1125
Gas Burner 3032-3034, 3036
Gate Access 1969, 2034
Generator 262
Head Pressure 3031
Heat Pump 3020-3022, 3025
Heating 220, 639, 2891, 3022-3027, 3030, 3033-3035, 3066, 3071, 3074, 3077, 3079, 3081, 3083, 3103-3104
Heating/Cooling 158, 3020-3025, 3027-3028, 3030, 3034-3036
High-Temperature Limit 3032
Hoist 249
Hot Water 2658, 2891, 3025, 3030, 3037, 3043
Humidifier 3092
Humidity 3026-3028, 3042
Hydronic 3025, 3030, 3035, 3037, 3043
Ice Bin Level 1460
IEC 160, 168-173, 218
Ignition 3032-3034
Induced Draft 3103-3104
Infinite 3032
Infrared Heater 3071, 3079, 3081
Insertion-Type 3034
Inverter 209
Irrigation 418, 2764, 3039
Joystick 243-244, 247, 251
Level Temperature 3035
Lift Table 1182-1183
Light-Sensitive 414-416, 470
Lighting 158, 163, 220, 223, 414-421, 449, 465-470
Limit 590, 3030, 3032-3035, 3040
Linear Motion Actuator 146
Liquid Level 2679, 2681
Logic 224
Low-Voltage 158-159, 220, 3035
Machinery Guarding 278
Motion Sensor 468-469
Motor 27, 153-165, 167-174, 215, 217, 220-221, 250, 259, 275, 287, 3035
Motor Protection Monitor 3031
Motor Starter 160-165, 167-174, 250, 275
NEMA Starter 160-162, 164-165, 167-168, 173-174
Odor 1504-1507, 1517, 1520-1524, 1845
Oil Burner 3036
Oil Pressure 3018
On-Off 163, 167, 249-250, 257
Packaged Terminal Air Conditioner 2993, 3025
Panel-Mount 163, 165, 167-172, 217-218, 226-228, 240-245, 247, 251-255, 257, 275
Pendant Station 249
Pilot Light 240, 243-244, 247-248, 257
Pneumatic 2551, 3040-3043
Potentiometer 159, 251, 263
Pressure 287-288, 290, 570, 3016, 3018, 3041-3042
Pressure Transmitter 290, 574, 580, 3017, 3046
Process 229, 289, 415-418, 421, 639, 3018, 3025, 3065
PTAC 2993, 3021, 3023, 3025
PTHP 3025
Pump 153-158, 165, 167, 174, 416, 2622, 2629, 2655-2656, 2658-2659, 2684, 2686-2687, 2689, 3035, 3046
Push-Button 162-163, 165, 172, 174, 240-245, 247, 249-255, 257, 275, 1125
Radio-Operated 1125
Range Hood 2955

Refrigeration 3016-3019, 3025-3026, 3042
Remote 2022, 2922, 3101
Safety Stop . . . . . 243, 245, 247, 250-255, ... 274-275, 278
Screwdriver 2504
Single-Stage 3025-3026
Snap-Disc 3035
Solar Charger 927
Soldering Voltage 239
Speed . . . . . 27, 153-159, 465, 2551, 2917, . . . 2922, 2929, 2944, 2946, 2949, 2955, 3103
Spreader 951
Switching . . . . . 161-162, 164, 167-168, ...171-172, 174, 215-224, 3035
Temperature . . . . . .229, 639, 2658, 2928, ...2993, 2995, 3018-3028, 3030, ...3034-3035, 3040, 3042, 3066, ... 3071, 3074, 3077, 3081
Throttle 2574-2575
Timer . . . . . 169, 172, 218, 222-223, 228, ... 415-420, 1978, 3079
Transmitter 580, 3040
Universal Interlock Draft Inducer 3103
Ventilation . . . . .2928, 2944, 2946, 2949, 2968, ...3023-3025, 3027-3028, 3030, 3034
Ventilator Speed 2944, 2946, 2949
Washdown Motor 159
Water Cooler 3019
Water Heater . . . . . .416, 418, 2658, ... 3025, 3030, 3033
Water Level 3039
Welding 2414, 2419
Well 2655-2656, 3030

CONVECTION
Heaters . . . . . 3068-3070, 3075-3076, ... 3078-3079, 3084
Ovens 638, 1459

CONVECTOR VENTS,
Steam 3037

CONVECTORS,
Explosion-Resistant 3079

CONVERSION KITS,
NG to LP 3032
Respirator 1763, 1768

CONVERTERS,
AC to DC 211-212, 560, 1977
Electrical Phase 209
Exit Device Latch 1993
Flow 555, 2686
Rotary Phase 209
Rust 906, 1600
Static Phase 209
USB 361
Video 358

CONVEYOR
Ball Transfers 1112
Belt Lacing 1115
Belt Replacements 96, 108, 1114-1115
Brackets 1111
Brush Holders 1117
Brushes 1117, 1546
Chain Links 116
Chains 116
DC Motors 27, 33
Extend-a-Sticks 1108
Hardware 1108, 1111
Hooks 1108
Motors . . . . . .8-9, 11-17, 19-21, 27-28, ... 31-35, 2474, 2577
Plates 1112, 1118
Replacement Parts 96, 1108, 1110, 1115
Roller Bearings/Covers 1111
Rollers 1110, 1112, 2351
Skate Wheels 1108
Stands 1113, 2351
Stops 1108, 1118
Support Tripods 1113
Trays 1293

CONVEYORS,
Ball Transfer 1112
Expandable 1108, 1116
Gravity 1108-1109
Motorized 1115-1116
Overhead 1111
Portable 1108, 1113, 1116
Powered Belt 1115
Roller 1109, 1113, 1116
Skate Wheel 1108
Table 1112-1113
Telescopic 1109
Vacuum 2583

COOKIES 1441

COOKING STRAINERS 1450

COOLANT
Additives 903
Collets 2312
Dispensers 2461
Hoses 918, 947, 2461
Misters 2461
Mixers 2462
Oil Skimmers 2462
Pumps . . . . . .936, 2346, 2463, 2638-2639, . . .2643, 2645, 2648, 2691-2692, 2694, 2698
Tanks 931, 2692
Testers 626, 918, 2462

COOLANTS,
Aerosol 232
Emulsion 2460
Engine 903-904, 962
Misting 2458-2459, 2461
Pipe Threading 873, 2351, 2460
Synthetic Air Compressor 2567
Synthetic Machining 2459-2461
Welding 2419

COOLERS,
Beverage . . . 1462-1463, 1825-1827, 2719-2721
Chest 1300, 1826-1827
Enclosure 301-302, 2926-2927
Evaporative 2921, 2998, 3000-3001
Garage 2998, 3000-3001
Marine 1827
Oil 2493-2494
Portable . . . 1300, 1825-1827, 2998, 3000-3001
Respirator Air 1769-1771
Shipping 1402
Spot . . . 301-302, 354, 2583, 2921, 2991-2992, ... 2996-2998, 3000-3001
Swamp 2921, 2998, 3000-3001
Travel 1826-1827
Window 3001

COOLING
Chairs 1817
Clothing 1640-1641
Devices, Workpiece 2583
Towels 1641
Vest Packs 1828
Vests 1828

COOLING TOWER WATER LEVEL CONTROLS 3039

COPIER
Casters . . . . . 1196, 1198-1199, 1202, ... 1209-1211, 1213-1214
Paper 1355-1356

COPING SAWS 886, 889

COPOLYESTER 2211

COPPER
Crimping Tools 382, 384, 847
Cutting Machines 870
Press Tools 867, 2800, 3010
Tubing Brushes 871, 2618

COPPER,
Roll 2179, 2185

COPYCAT GAUGES 884

CORD
Connectors . . . 325-327, 336-339, 355-356, 440
Lockouts 328, 1946-1947
Managers 354, 1343, 2998
Plugs 334-340, 342
Protectors 401-402, 404-405, 1131
Reel Lights 396-397, 522
Reels 396-398, 400, 522, 2526-2527
Seals 2629
Strain Relief Fittings 325-327
Switches 330
Wrap 2998

CORD SETS,
Fan 2926
Sensor 278, 283, 2480

CORDLESS
Band Saws 687
Blowers 670, 679, 688, 988
Buffers 678, 684
Cable Cutters 347, 671, 678, 684, 853
Caulk Guns 670, 679, 685, 688
Combo Kits . . . . . .665, 667, 672, 674, 681, ... 686, 689-690, 692, 694, 710
Crimpers 381, 671, 678, 853
Cut-Off Tools 667, 677, 683, 687-688, 695
Drain Cleaner Guns 864
Drill Presses 676
Drills . . . .665, 667-668, 672, 674-675, 681-683, ...686-687, 689-690, 692-694, 710
Drivers . . . . . 667-668, 672, 674-676, 681-682, ...684, 686-687, 689-690, 692, 694, 852
Fans 670, 679, 688
Grease Guns 670, 679, 932-933
Grinders . . . . . .665, 677, 681, 683, 686, ... 688, 691, 695
Hammer Drills . . . . . 665, 667-668, 674-675, ...681-682, 686-687, 690, 692, 694
Impact Drivers . . . . . .665, 667-668, 672, ... 674, 676, 681-682, 686-687, ... 689-692, 694, 698
Impact Wrenches . . . . .667-668, 672, 674, 676, ... 681-682, 686-687, 689, 691-692, 694
Jigsaws 669, 677, 683, 687, 691-692, 695
Nailers 669, 679, 695, 2496, 2498, 2500
Orbital Sanders 678, 688
Planers 670, 688, 691
Polishers 677-678, 684, 688
Ratchets 682
Rebar Tools 716
Riveters 684, 2506
Rotary Hammers . . . . . .665, 667-668, 675, ... 683, 687, 690, 693, 710
Rotary Tools 677, 688
Saws . . . . . 666-667, 669, 672, 674, 677, ... 679, 681, 683, 686-695, 1004
Screw Guns 667-668, 686, 696
Screwdrivers . . . . . .668, 672, 681-682, 684, ... 686, 692, 696
Shears 670, 678, 684, 688
Soldering Irons 234, 238
Spotlights 520, 530, 670, 680, 971
Staplers 669, 684
Sweepers 1569
Vacuum Cleaners . . . . .670, 678, 685, 689, 693, ... 1563, 1566, 1569-1571, 1573
Welders 108
Work Lights 520-522, 672, 680

CORDLESS TOOL
Batteries & Chargers . . . . . .381, 665-669, ... 671-674, 676, 678-679, 681, ...683, 686-687, 689-690, 692-694, 696, . . . 724, 853, 933, 986, 988, 1004, 1569-1571, ... 1573, 2135, 2496, 2498, 2800
Power Cords 665

CORDS,
Appliance 400-401, 470
Baloney 413
Battery Recharge 361
Bungee 1102-1103, 1410
Computer Power 399-400
Cotton 1095, 1097
Drop 412, 514
Elastic 413
Electrical . . . . . 347-348, 353, 362, 397, ...399-402, 412-413, 429, 2926, 3067
ESD 561, 921
Extension 361, 397, 399-402, 412-413
Fan 2926
Fiber-Optic Patch 357, 362
Generator 399-400, 412-413
GFCI Line 402
Grounding 387, 561, 1320
Heater 3067, 3077
Lighting Fixture 347
Patch 354, 357-358, 362-363
Pigtail 387, 2055
Power . . . . . 353, 362, 367, 372, 400-402, ...413, 429, 470, 665, 1764, 1779, ... 2926, 2993, 2998, 3067, 3077
Power Distribution Center 348, 413
Projector 359
Respirator Power 1764
Rubber 2206
Safety Glasses 1656, 1665
Sash 1095
SEOW 346
SJOOW 346
SJTOW 346
Temporary Power 412-413
Test 400
Tie-Down 1084, 1095-1097, 1102, 1410
Tool 400
Trailer 961
Weep 1097

CORE AND COIL BALLASTS 478

CORES,
Valve 954-955, 3015

CORING
Bit Accessories 716
Bits 712-714, 716
Drill Bit Shanks 713-714
Drill Motors 716
Drills 673, 716
Rig Bases 716

CORKSCREWS 814

CORN BROOMS 1541

CORNER
Braces 1105, 2019
Brushes 1543
Guards 1105, 1132, 1134, 2006
Protectors 1105, 1132, 1134, 1421

CORNERS,
Baseboard Heater 3072, 3090
Handrail 1134
Raceway 304-307

CORRALS,
Cart 1171

CORRECTION FLUIDS & TAPE 1359

CORROSION INHIBITORS
. . . . . 901, 906-907, 1600-1603, 1606-1608, ... 2428, 2438, 2445, 2450, 2453, 2460

COTS,
Body 1823
Finger 1673

COTTER PINS 2150-2151

COTTON CANDY MACHINES 1458

COTTON,
First Aid 1830, 1834

COUNTER
Brushes 911, 1543-1544, 1546-1547
Dusters 911, 1546
Gaskets 228

COUNTERBORES 2257

COUNTERS,
Digital 225-228, 566-567
Electrical 225-227

Electromechanical 227
Electronic 225-228, 567
Frequency 559
Manual 227
Mechanical 227
Nonresettable 227
Particle 618-619
Resettable 226-228

COUNTERSINKS
. . . . . 699, 851, 871, 2255-2257, 2265

COUPLING
Chains 122
Covers 122
Grease 2450
Inserts 127-129
Links 1071
Locks 961
Nuts 2084
Plugs 2489, 2519-2522, 2765, 2767

COUPLINGS,
3-Piece Circulator 2658
3-Piece Conduit 315
Acetal Tubing 2849
Air Cylinder 2539
Air Hose 962, 2519-2522, 2530-2531, 2586
Automotive 962, 2519-2522
Black Malleable Iron Pipe . . . 2768-2769, 2773
Black Steel Pipe 2769, 2773, 2776-2777, 2779
BNC Cable 351, 355, 360
Brass Pipe 2722, 2790-2795, 2818, 2854-2855
Brass Tubing 2805-2806
Cam and Groove 2765-2767
Carbon Steel Pipe 2804
Compression 315, 2818
Copper Pipe/Tubing . . . 2796-2799, 2801-2802
CPVC Pipe 2812, 2815, 2818
Disposer 2732
Drain/Waste/Vent 2722, 2798, 2808-2810
Drive 127, 2656
Duct 1784-1785, 2949
Ductile-Iron Pipe 2779, 2828
Electrical 313, 315, 320-321
Flexible 127-129, 321, 449
Galvanized Malleable Iron Pipe 2768-2769, 2773
Galvanized Steel Pipe 2768-2769, 2776, 2818
Grease Gun 934-935
Half 2776, 2782, 2785
HDMI (High Definition Multimedia Interface) 360
High-Pressure 2481, 2489
Hose 962, 1013, 2420, 2485, 2519-2522, 2530-2531, 2586, 2765-2767, 3006
Hose Barb 2522, 2636, 2764, 2767, 2813
Hydraulic 2468, 2481, 2485, 2489-2491
Industrial Interchange 2489, 2519-2522
Moveable Gas Appliance 2717
Plastic Conduit 320
Plastic Pipe 2617, 2722, 2765, 2806, 2808-2818, 2821
Plastic Tubing 2636, 2764, 2807, 2821
Pneumatic 2519-2522, 2586, 2765-2767
Pump 129, 2656, 2658, 2697-2698
Pressure Washer 1592
PVC Conduit 320
PVC Pipe 2806, 2809-2814, 2818, 2821
PVDF (Polyvinylidene Fluoride) Pipe 2817
Quick-Connect 1592, 2489-2491, 2519-2522, 2531, 2636, 2849, 3006
Railing 1308
RCA Cable 351, 355, 360
Respirator 1765
Rigid Type 125-126, 315
Safety Exhaust 2522
Set Screw 125, 313, 315
Shaft 122, 125-130
Stainless Steel Barbed 2636
Stainless Steel Cam and Groove 2766
Stainless Steel Pipe . . . 2519, 2521-2522, 2782, 2785, 2787, 2828
Stainless Steel Tubing 2781, 2803
Steam Hose 2531
Steel Chain Shaft 122
Steel Compression Pipe 2617, 2818
Steel Instrumentation Pipe 2780
Steel Pneumatic 2519-2522
Threaded Rod 316, 2084, 2147
Threadless 323
Trailer 959, 961
Tubing Insulation 2826
U-Joint 130
Universal 130, 2531
USB 356

COURTESY LIGHTS 968, 979

COVER PLATES,
ABS 356
Aluminum 309-311, 328
Blank 305-306, 309, 328, 356
Brass 311-312, 328
Combination 306, 308, 328
Electrical 262, 304-312, 320, 328, 338, 340, 356, 3020-3022, 3024
GFCI (Ground Fault) 310, 328
Nylon 328
PVC 311
Raceway 305-307, 356
Receptacle 304, 306-309, 328, 338
Security 328
Snap-On 356
Stainless Steel 328, 355
Switch . . . 259-260, 262, 304, 306-309, 328, 330
Tamper-Resistant 328
Thermostat 3028
Voice/Data 304, 306, 328, 355-356, 360
Weatherproof 309-310
Welding 1766, 1769, 2405, 2407

COVERALLS,
Antistatic 1623
Chemical-Protective 1739-1740
Cleanroom 1738
Disposable 1714, 1735-1740
Electrical-Protective 1707-1708
Flame-Resistant 1707-1708, 1713, 1739-1740
Flame-Retardant 1714
General Work 1721
Hooded 1714, 1735-1740
Insulated 1721

COVERS,
Air Conditioner 2991, 2998, 3001
Alarm 1979, 2053
Automotive Fender 948
Basin 2630
Beard 1709, 1731
Bollard 1132
Boot/Shoe 1623, 1732, 1737-1739, 1746
Box Spring 1469
Cable 307, 404-405, 1131, 2420
Capacitor Terminal 65-66
Cart 1156
Chain Coupling 122
Circuit Breaker 190
Clear 1450
Clutch/Brake 95
Conduit 309, 311, 314, 316
Disconnect Switch 175
Door Closer 1992
Drain 1858, 1862, 2723-2725, 2998
Drum 1139-1140, 1861
Duct 185, 190, 262, 303, 308-312, 320, 338, 340
Emergency Eyewash Station 1839, 1844, 2741
Emergency Stop Safety 1946
Enclosure 175, 185, 190, 262, 308-312, 320, 328, 338, 340, 430, 3090
Evaporative Cooler 2998, 3001
Fan 2967, 2998
Faucet Hole 2723
Fender 948
Fire Alarm 1979, 2053
Fire Extinguisher 1880
Flange 2770
Floor Box 311-312, 320
Fluorescent Tube 481
Food Pan/Rack 1447-1449
Food Tray 1292
Framing Channel 316
Funnel 930, 1861
Furniture 1410
Fuse 185, 187
Garbage Can 1552, 1554-1556
Glove 1715
Heater 3074
Hose Rack & Reel 1818
Ironing Board 1475
Load Center 189, 191
Machine 1100, 1410
Mattress 1410, 1468-1469
Mop 1535
Motion Sensor 2053
Open Slot Duct 303
Outdoor Equipment 951, 986, 991
Outlet Box 309, 328, 430
Paint Roller 907, 1618-1620
Pallet 1100, 1416
Panel Meter 225
Panelboard 189-190
Parts Storage Box 1282, 1292-1294
Pin and Sleeve 341
Pipe 2722, 2832-2833, 2837-2838
Plant 1003
Pool Lift 1481
Post Sleeve 1132
Power Distribution Block 393
Power Tool 1100
Pull Station 1979, 2053
Push-Button Safety 1946
Raceway 304-307
Receptacle 309-312, 338-341, 1552, 1554-1556
Recycling Container 1555-1556, 1558
Regenerative Blower Filter 2584
Regulator 2594
Relay Dust 219
Respirator Faceshield 1761-1762, 1766, 1769, 1771, 2405
Respirator Filter 1760, 1762-1764
Respirator Shower 1768
Seat 948, 1494
Shutter 2967
Sieve 649
Signal Base 280
Snowblower 991
Sorbent Drum 1846, 1848, 1850
Spreader 951
Steering Wheel 948
Strobe Light 2053
Switch 169, 175, 262-263, 288, 290, 308-310, 328
T-Slot 1119
Terminal Strip 395
Thermostat 3022, 3040
Toilet Seat 1494
Tote Box 1292-1295, 1297, 1301
Vertical Rod 1998
Weatherproof Switch 309-311
Welding Helmet Lens 1766, 2405
Wire Shelving 1156

CPR (CARDIOPULMONARY RESUSCITATION)
Automated Devices 1838
Faceshields/Masks 1831, 1835, 1837

CRACK DETECTION DEVELOPERS 2427

CRACKERS 1440-1441

CRADLES,
Cable Tie 317, 410
Drum 1143, 1864, 1872

CRAFT GLUE 1361, 2216, 2237-2238

CRANE
Bases 1064
Bumpers 1129
Jacks 943
Pads 944
Scales 1065
Slings 943, 1074-1077, 1079, 1144

CRANES,
Davit 1064
Dock 1063
Floor-Mount 943, 1063-1064
Gantry 1062
Hydraulic 943
Jib 1054, 1063
Mobile 943, 1064
Portable 943, 1062, 1064
Space Saver 943
Truck-Mount 1064
Utility 943
Wall-Mount 1054, 1063

CRASH BARS 1976, 1993-1996, 2003

CRATE OPENERS 814, 823, 861-863

CRAYONS,
Lumber 884
Paint 1365, 1614
Tire Marking 954, 1614

CREAMERS 1440

CREAMS,
Burn Care 1829
Hydrocortisone 1829, 1833
Medicated Skin 1498, 1833

CREDENZAS 1337

CREEPERS 945

CRESCENT WRENCHES 797, 863, 2751

CREVICE TOOLS,
Vacuum Cleaner/Carpet Extractor 1565, 1570, 1575

CRIME SCENE TAPE 1907

CRIMP
Clamps 2534
Connectors 351, 381, 383-386, 389, 2482
Sleeves 1088-1089

CRIMPER
Blades 853
Die Adapters 2265
Dies 381-382, 384, 847, 853, 2530

CRIMPERS,
Cable 365-366, 381-382, 384, 389, 678, 814, 839, 841, 846-848, 853-855, 924
Connector 365, 381-384, 389, 814, 839, 841, 846-848, 853-855, 859, 924
Cordless 381, 671, 678, 853
F-Connector 365-366, 389, 814
Ferrule 365, 381-382, 384, 389, 839, 847, 855, 924
General Purpose 814, 847
Hand 365, 381-382, 384, 814, 841, 846-847, 855, 2530
Hose 918, 2483-2484, 2530, 2534, 2536, 2805
Hydraulic 381-382, 847, 853, 2483-2484
Modular Plug 365
Pipe 816
Ratcheting 381-382, 384, 389, 847
RJ-45 365
Sheet Metal 816
Telephone Wire 365, 383-384, 389, 814, 841, 846-847, 855
Vial 660

CRIMPING TOOLS 365-366, 381-384, 389, 660, 678, 814, 816, 839, 841, 846-848, 853-855, 859, 918, 924, 2483-2484, 2530, 2534, 2536, 2805, 3010

CROP DRYER MOTORS 34

CROSS
Arm Straps 1790, 1792
Line Levels 880
Pein Hammers 825, 828, 862
Test Levels 883, 2336
Vises 2346

CROSSCUT SAWS 886

CROSSES,
Black Forged Steel Pipe 2776
Black Malleable Iron Pipe 2768, 2773
Brass Pipe 2790-2794
Brass Tubing 2860
Copper Pipe/Tubing 2800
Galvanized Malleable Iron Pipe 2768, 2773
Hydraulic Hose 2485
Nylon Push-to-Connect 2557
Nylon Tubing 2557
Plastic Pipe 2810-2811, 2813
Stainless Steel Pipe 2782, 2785, 2787
Stainless Steel Tubing 2858

CROSSOVER LADDERS 1040-1042

CROSSOVERS,
Railing 1308

CROWBARS 823, 862-863, 953, 999

CROWD-CONTROL
Barriers 1133-1134, 1352, 1527, 1908, 1910, 2042-2043
Posts 1132, 1134, 1910, 2042-2043

CROWFOOT SOCKET WRENCHES 795

CRUSHER REPLACEMENT PARTS 511

CRUSHERS,
Air/Oil Filter 919

CRYOGENIC SOLENOID VALVES 2880

CUBE
Filters 3053
Trucks 1160-1162

CUBICLE
Document Hanger Clips 1358-1359
Panels 1352
Wall File Hangers & Organizers 1358
Work Surfaces 1337

CULTIVATORS 999, 1008

CUP
Brushes 862, 2394-2398
Dispensers 1434, 1826
Hooks 2020
Lids 1431, 1605, 1621
Racks 1447
Wheels 2391

CUPS,
Beverage . . . 1431-1433, 1444-1445, 1825-1826
Bin 1283-1284, 1289, 1294
Disposable 1431-1433, 1436, 1825-1826
Eye 1830-1831
Foam 1431, 1445
Measuring 930, 1454, 1525
Medicine 1436
Oil 2463, 2465
Paint 1621, 1625-1626
Pencil 1358
Specimen 653, 656
Spray Gun 1625-1626
Suction 1065
Tapered Roller Bearing 138
Torch Cutting Shield 2423
Vacuum 1065
Whiteboard Accessory 1367

CURB
Installation Kits 1131
Ramps 1127
Stops 1131

CURBS,
Parking 1131
Roof 2962-2963

CURRENT
Calibrators 562-563
Probes 537, 540-541, 558
Recorders 551
Sensors 220-221, 3092
Shunts 560
Testers 225, 536-547, 551-552, 556, 558-559, 562, 564
Tracers 547, 564, 921
Transformers 205, 560

CURTAIN
Doors 1120-1121
Hooks 2410, 2746
Walls 1121, 2410

CURTAINS,
Air 2969-2971
Drench Shower 1843-1844
Safety Light 278
Shower 2746
Vinyl Strip 1120-1121
Wall Partition 1121
Welding 2409-2410

CUSHIONS,
Chair 1821
Ear Muff 1649
Seat 950

CUT-OFF
Saw Blades 719-721
Saws 687, 717, 724, 736
Tool Cases 2586
Toolholders 729
Tools 667, 674, 677, 681, 683, 687-688, 695, 721-722, 724, 2508, 2511, 2586

CUT-OFF WHEELS,
Abrasive 719-721, 724, 729, 734, 737, 2383-2388

CUT-OUT
Tool Bits 729
Tools 667, 688, 729

CUTLERY,
Commercial 1452-1453
Disposable 1435

CUTTER
Blades 671, 719-721, 724, 809-811, 814, 2618
Heads 811
Replacement Parts 734, 817, 889, 891

CUTTERS,
ACSR 318, 671, 841-842, 845, 855, 861, 863
Angled 817, 842, 844, 846, 854
Annular 740
Asphalt 673, 713, 715, 717-718, 2514
Banding 817, 1419-1420
Battery-Powered 347, 671, 678, 845, 853
Biscuit 688
Boring 740
Box 808, 810-813, 891, 1401, 1417
Brush 987, 1007
BX 845
Cable 318, 347, 365-366, 384, 389, 671, 678, 684, 814-815, 817, 839, 841-842, 844-846, 853-855, 859, 861, 863, 924, 1089
Carpet 815, 891
Cast-Iron Pipe 869
Conduit 305, 307, 318, 736, 845, 853, 869-870, 2618
Deburring 2298-2300, 2401
Diagonal 839, 842, 844, 846, 848, 854-855, 861, 863
Dough 1453
Drain Cleaner 865
Drywall Circle 889
Duct 303, 816
Electric 347, 671, 678, 845, 853
Engraving 724
Film 811, 1417
Flush 842
Hole 708, 740, 816, 851
Hose . . . 305, 684, 735-736, 869-871, 2618, 3010
Hydraulic 869-870
Indexable Milling 2305
Insulated 841, 854-855, 861
Kevlar 815
Key 1965
Laminate 891
Linoleum 808, 891
Lock 671, 817
Loop Pile 891
Milling 2281, 2283-2284, 2289-2290, 2293-2294, 2305
Paper 812, 1381
Pipe 305, 684, 869-871, 873, 886, 2586, 2618, 2800, 3010
Plasma 2358, 2422-2423
Plastic 684, 842, 869-870, 2618
Power 671, 673, 678, 684, 717-718, 853
PVC 684, 869-870, 2618
Ratchet Type 817, 845, 869
Rebar 671, 709, 712, 716
Ring 1830
Rotary 724, 729, 814, 2392
Safety 811, 1417
Side 839, 841-842, 844, 846, 848, 854-855, 861, 863
Siding 670
Soil Pipe 869
Strapping 817, 1419-1420
Stretch Wrap 1417
Tang Drive 740
Threaded Rod 671
Tile 717, 891
Tubing . . . 305, 684, 869-871, 1406, 2618, 3010
Wire 233-234, 318, 347, 365-366, 383-384, 671, 814-815, 817, 838-842, 844-846, 848, 853-855, 859, 861, 863, 924, 1089
Wire Rope 318, 347, 671, 678, 817, 842, 845-846, 853, 1089

CUTTING
Boards 2210
Electrodes 2423
Fluids 873, 2351, 2457-2461
Gouging Shields 2423
Inserts 2301-2306, 2309
Lubricants 873, 2351, 2438, 2457-2461
Machine Stands 870
Mats 814
Oils 873, 2351, 2457-2460
Outfits 2430-2431, 2433, 2436
Rods 2422
Tips 2423, 2430-2431, 2433-2434, 2436
Tool Air Cooling Devices 2583
Tool Mist-Coolant Devices 2461
Tool Sharpeners 724
Tools 816, 863
Torches . . . 2423, 2430-2431, 2433-2434, 2436
Wheels 719-721, 724, 729, 734, 737, 2383-2389

CYCLE PLIERS 839

CYCLE TIMERS 418

CYCLES 1126

CYLINDER
And Pump Sets 2468-2469
Brushes 1117
Cabinets 1873
Carriers . . . 1003, 1187-1188, 1782, 2411, 2437
Leakage Testers 919
Lifts 1187
Mounts 2537-2541
Racks 1187, 1239, 2411
Regulators 1778, 1780, 1782, 2437
Replacement Parts 2489, 2541
Sensing Switches 2480
Shipping Boxes 1780
Stands 2437
Wrenches 962

CYLINDERS,
Agricultural 2478-2479
Air 1773, 2537-2541
Exit Door 1996
Gas 2430-2431, 2436-2437
Graduated 655
Hydraulic 2468-2469, 2478-2480
Large Bore 2539-2540
Lockset 1996
Magnetic Piston 2480, 2538
Mortise 1996
Oxygen 1773
Rim 1996
SCBA (Self-Contained Breathing Apparatus) Replacement 1773
Tie-Rod 2478, 2480, 2537, 2539-2541
Welded 2479
Welding 2430-2431, 2436-2437

D

D-RINGS,
Anchorage Connector 1790-1792

DAGGERS 813

DAMPER
Actuators 3041, 3043-3045, 3100-3101
Links 3045, 3101
Motors 3044-3045, 3100
Mounts 3045, 3101

DAMPERS,
Air 3100-3102
Backdraft 2937-2938, 2944, 2967
Balancing 3100-3101
Butterfly 3100-3102
Ceiling 2943, 2945
Diffuser 3102
Duct 3099-3101
Fan 2938-2939, 2944
Fire 2942-2943, 2945, 3101
Furnace Vent 2938
Manual 2939
Motorized 2938, 3100-3101
Radiation 2942-2943, 2945
Roof 2938
Ventilator 2938-2939, 2943, 2945
Wall 2938-2939

DANGER
Signs 369, 1527, 1919, 1921-1922, 1924
Tape 1907

DARTBOARD DARTS 1479

DATA
Cable Crimpers 365, 381, 384, 389, 671, 678, 814, 841, 846-847, 853, 855
Cables 224, 348-350, 352, 354, 357, 359, 361-362, 563, 1779
Interface Cards 225
Jacks 355-356, 360
Switches 357

DATA ACQUISITION SYSTEMS 584

DATA LOGGER
Sensors 620
Software 563

DATA LOGGERS,
Current 538, 551-552
Digital 538, 551, 556, 562, 580, 584, 587, 592-595, 600, 624, 3008
Gas Detector 618, 1777-1779
Humidity 584, 592-595, 618, 3008
Light Meter 625
Load 551-552
Multimeter 536-538, 551
Noise 624
Occupancy 593
On/Off 593
Power 538, 551-552
Pressure 580, 584, 593
Sound Level 624
State 593
Temperature 543, 562, 580, 584, 587, 591-595, 618, 620-621, 628, 3008

Thermometer 586-587, 592-594
Vibration 568, 593
Voltage Data 538, 551-552
Voltage Event 551-552
Wind Speed 620-621

DATE CODE PRINTERS 1403

DAYLIGHT SENSORS 414-416, 469-470

DC
Blowers 38, 2972-2974
Clutch/Brakes 95
Drives, Power Transmission 27, 158-159
Gearmotors 81-86
Linear Motion Actuators 146-147
Motor Controls . . . 27, 85, 158-159, 165, 217, 220
Power Supplies 209-212, 225, 469, 560, 1979, 2051
Voltmeters . . . 225-226, 536-538, 544, 551, 559
Winches 1081

DEAD BLOW HAMMERS 826-828

DEADBOLTS 1123, 1973-1974

DEBRIS LOADERS 1000

DEBURRING
Brushes 862, 2382, 2396-2398
Cutters 2298-2300, 2401
Gauge Tools 2806
Machines 870
Reamers 871
Replacement Parts 871
Tools 871, 2256, 2298-2300, 2399, 2401
Wheels 737, 862, 2380-2382, 2388-2389, 2394-2398

DECAL REMOVERS 2216

DECALS,
Floor 1903

DECANTERS,
Coffee 1439

DECK
Anchors 1481
Mops 1531
Nails 2111
Scrapers 861-863
Screws 696, 2109
Scrubs 1544, 1547

DECK PLATES,
Faucet 2748, 2750

DECKING,
Pallet Rack 1227, 1229
Steel 1231-1234
Storage Rack 1229, 1231-1235
Wire Mesh 1227, 1229, 1231-1234

DECONTAMINATION
Deck Pumps 1865
Equipment Carts 1824
Field Kits 1824
Pools 1824
Shelter Inflators 1824
Shower Pumps 1824, 1865
Showers 1824
Sponges 1824

DECOYS 1019

DEF (DIESEL EXHAUST FLUID)
Flowmeters 2682
Pumps 896

DEFIBRILLATOR
Batteries/Battery Chargers 534, 1838
Cabinets 1838
Cables 1838
Carrying Cases 1838
Electrodes 1838

DEFIBRILLATORS 1838

DEFLUXERS 232

DEFOAMERS,
Carpet 1577
Metalworking Fluid 2458

DEFROST CONTROLS 3018-3019, 3026

DEGREASER
Sprayers 1001-1002
Wipes 1500

DEGREASERS,
Aircraft 909, 939, 2447-2449
Cleaner 232, 642, 901, 908-909, 922, 938-939, 1508-1510, 1512-1514, 1519-1524, 2342, 2446-2449, 2460, 2963
Electronics 901, 1513, 2446-2449
Equipment/Machinery 232, 908, 938-939, 1508-1509, 1513, 1521, 2447-2448
Facility 1508-1510, 1513, 1519, 1521, 1523, 1581, 2447-2448, 2963
Fleet/Vehicle 901, 908, 922, 938-939, 1508-1509, 1513, 2447-2448
Solvent 908, 939, 1508-1510, 1514, 1519, 1522, 1581, 2447-2448

DEHEADERS,
Drum 1140

DEHUMIDIFIER
Adapters 3062
Controls 3028, 3093
Filters 3093
Replacement Parts 3093

DEHUMIDIFIERS 3062, 3093

DEICERS,
Automotive 902
Pipe 874, 1141, 3067
Sidewalk 994

DEIONIZERS 635

DELIMERS 1504, 2704

DELINEATOR POSTS 1910, 1912

DEMAGNETIZER/MAGNETIZERS 802

DEMOLITION
Saw Blades 719-720, 727-728, 2511
Screwdrivers 799
Tools, Percussion 713, 2513

DEMOLITION HAMMER
Anchor Pin Drivers 715
Asphalt Cutters 713, 715
Bits 712-715, 2166
Bull Points 714-715
Bushing Tools 713-715
Chisels 712-715
Moil Points 715
Plates 715
Rod Drivers 713, 715
Scrapers 714
Seam Tools 714
Shanks 713-715
Spades 714-715
Stake Drivers 715

DEMOLITION HAMMERS 673, 710, 715, 2513

DEODORIZERS,
Air 1505-1507, 1520-1521, 1524, 3061
Boot/Shoe 1757
Carpet/Fabric 1505-1506, 1517, 1520-1521, 1524
Dumpster/Trash Can 1505-1506, 1513
Fire and Smoke 1506
Fogging 1506
Gel 1505-1506
Liquid 1504-1506, 1510, 1513, 1520-1522, 1524
Spray 1505-1507, 1510, 1521, 1524, 1757, 3011
Urinal 1505
Wall Block 1505

DESCALER CHEMICALS 2446, 3003, 3011-3012

DESCALERS,
Evaporator Pan 3012
Humidifier 3061
HVAC 2446, 3011-3012
Ice Machine/Line 3003, 3011

DESCENDERS 1808

DESICCANT
Bags 1413, 2589
Breathers 1413, 2463
Dryers 2588-2589

DESK
Chairs 1334-1336
Cleaners 2446
Dollies 1192
Lights 515-516, 2340, 2359
Movers 1192
Pedestals 1345
Phones 2036
Space Savers 1358
Top Organizers 1337, 1358

DESKS,
Computer 1328, 1339
Lap 1382
Mobile 1169, 1327
Office 1337-1339
Shop 1157, 1169, 1326-1327
Steel 1326-1327
U-Shaped 1337
Wall-Hung 1327

DESKTOP FANS 2923-2924

DESOLDERING NOZZLES 232, 234, 236

DETAILING SUPPLIES . . . 908-911, 922, 1545

DETECTOR
Batteries, Gas 1777-1780
Data Loggers 1777-1778
Test Kits 1780, 1782
Tubes 1779, 1782, 2051, 3029

DETECTORS,
Ammonia . . . 622, 624, 1776, 1779, 1781, 3010
Biological/Chemical Agent 622
Carbon Dioxide 543, 584, 618, 1776-1777
Carbon Monoxide 617, 622-624, 1771, 1776-1781, 1881-1882, 3029
Chlorine Dioxide 1779
Current 536-538, 540-546, 552, 562
Ethylene Oxide 622
Fluorescent Leak 2427, 2494, 3009, 3012
Gas 617, 622, 624, 628, 1776-1781, 3010
Heat 1881, 2051
High Water 2629
Hydraulic Leak 2494
Hydrogen 622, 624
Hydrogen Cyanide 1776, 1781
Hydrogen Sulfide 622-624, 1776-1781
Laser 881
Leak 621-622, 946, 2494, 2820, 3008-3010, 3012
LEL (Lower Explosive Limit) 1776-1777, 1779-1781
Metal 565, 885, 2044
Methane 622, 624, 1777, 1781, 3010
Motion 454, 1978
Nitrogen Dioxide 624, 1778-1779
Organic Vapor 1776
Oxygen 624, 628, 1776-1781
Security 2044
Smoke 622, 1881-1882, 2036, 2051, 3029
Sulfur Dioxide 622, 1776-1781
Toluene 622
Voltage 536-538, 540, 544-547, 551-552, 554, 857, 885, 1711
Water 874, 2679, 3092
Weapons/Metal 2044
Welding Crack 2427
Xylene 622

DETENT PINS 959, 2152, 2321

DETERGENTS,
Automobile 908, 910
Carpet 1517
Dishwasher 1515
Laboratory 642
Laundry 1516

DEVELOPERS,
Leak Detection 2427

DEW POINT RECORDERS 595, 620

DEWATERING
Bags 1858
Pumps 679, 2621, 2627, 2631-2633, 2637

DIAGONAL CUTTERS
. . . . . 839, 842, 844, 846, 848, 854-855, 861, 863

DIAL TONE TESTERS 363-364

DIAMOND
Abrasive Pads 2369
Abrasive Wheels 737, 2254
Coring Bits 716
Coring Rigs 716
Files 814, 820
Knife Sharpeners 1452-1453
Point Chisels 822
Saw Blades 719-721, 727, 730
Saws 717-718

DIAPER CHANGING STATIONS 1495

DIAPHRAGM PUMP REPLACEMENT PARTS 2494, 2637, 2663, 2665, 2667, 2688

DIAPHRAGM PUMPS 1002, 2578, 2637, 2663-2669, 2672, 2674, 2677, 2688, 2691

DIE
Adapters, Crimper 2265
Carts 1179-1183
Heads, Threading 872-873
Stocks 2262, 2265, 2276

DIE GRINDER COLLETS 723

DIE GRINDERS,
Air 2507-2508
Cordless 677, 688
Hand 723
Right-Angle 2507

DIE SETS,
Pipe 2262, 2265
Punch 852, 2471
Threading 2262

DIELECTRIC
Lubricants 2439-2441, 2445
Testers 547
Unions 2802, 2842

DIES,
Adjustable 2262, 2265, 2276
Bolt 2262, 2265, 2276
Carbon Steel 2262, 2265, 2276
Crimper 381-382, 384, 847, 853, 2530
Hexagon 2262, 2265, 2276
High-Speed Steel 872, 2262, 2265, 2276
Knockout Punch 852
Round 2265, 2276
Threading 872-873, 2262, 2265, 2276

DIESEL
Engine Oils 895-896
Engine Testers 626
Engines 985
Exhaust Fluids (DEF) 896
Fuel Additives 896-897, 900
Fuel Cans 1874-1875

Fuel Filters 947, 2671, 2710
Pumps 936, 2669-2670, 2672-2674, 2676-2677, 2691

DIFFERENTIAL PRESSURE
Gauges 570, 572, 2591
Switches 287, 570, 3046, 3104
Transmitters 570, 580

DIFFUSER
Collars & Dampers 3102
Lenses 440, 461

DIFFUSERS,
Air 3083, 3086, 3102
Aroma 3061
Ceiling 3102
Discharge 3089
Gas 2414

DIGESTANTS,
Bacterial 1505
Odor 1505, 1517

DIGGERS,
Pneumatic 2513
Post Hole 1008

DIGITAL
Clocks 225, 587, 950, 1374-1375
Force Gauges 568
Multimeters (DMMs) 536-546, 551, 556, 558, 562, 607
Sound Meters 624
Stopwatches 582
Stroboscopes 567
Tachometers . . . 159, 226, 559, 566-567, 2342
Timers 223, 225-228, 415-416, 418-421, 582, 586, 1455
Vacuum Gauges 3009
Video Cameras 949, 2046-2048
Video Recorders (DVRs) 2045, 2048-2049

DILUTION CONTROLS 1520

DIMMERS,
Light 465-467, 470

DIN RAIL
Mount Kits 155, 157, 163, 171, 225
Mount Power Supplies 209-212
Mounting Adapters 155, 170, 216

DIN RAILS 216, 394

DINNERWARE 1436, 1445

DIP TANKS 938-939

DIPPERS,
Water Sampling 633

DISASTER SURVIVAL KITS 1835, 1837

DISC
Backup Pads 725, 2374, 2376
Brakes 95
Brushes 2398
Cartridges 1761
Pad Holders 2374, 2376
Pad Hubs 2376
Sanders 678, 688, 725, 2361-2362, 2509-2510

DISCHARGE
Diffusers 3089
Filters 2492, 2575-2576
Hoses 2634-2637, 2691

DISCONNECT SWITCH
Contacts 160, 163, 175
Covers 175
Handles 298
Hardware 160, 175, 198

DISCONNECT SWITCHES,
Battery 924
Door 298
Flange-Mount 298
HVAC 3071, 3075, 3077
Safety 175-176

DISCONNECTS,
Ballast 388
Motor 154, 160, 167, 389
Pump 2677
Wire 383-384, 388-389

DISCS,
Bristle 2374
Coating Removal 2382
Compact (CDs) 1354
Fiber Abrasive 2371-2376, 2382
Flap Abrasive 2377-2379, 2395
High-Strength Abrasive 2370
Hook-and-Loop Abrasive 911, 2370, 2373, 2382
PSA (Pressure-Sensitive Adhesive) Abrasive 911, 2370
Sander 911, 1583, 2370-2376, 2382
Surface Conditioning 911, 1583, 2370-2379, 2382
Vacuum Hole Abrasive 2370

DISHERS 1454

DISHES,
Petri 663
Soap 2760-2761
Weighing 644-645

DISHWARE BINS 1295, 1447

DISHWASHER RACKS 1447

DISHWASHERS 1447, 1464-1465

DISHWASHING DETERGENTS 1515

DISINFECTANT
Deodorizers 1522
Wipes 1510, 1512, 1514

DISINFECTANTS,
Air Conditioner 3011
Bathroom/Restroom . . . 1503-1504, 1509-1513, 1517, 1521-1524
Fungicidal 1503, 1510-1512
Institutional-Grade 1511-1512, 1517, 1519, 1521-1522
Premeasured 1521
Quat 1511-1512, 1514, 1520-1522
Simple Green 1511
Spray 1503, 1509-1514, 1519, 1521, 2446, 3011

DISPENSER
Accessories 1514, 1522, 2743
Replacement Parts 2721
Safety Cans 1874-1876

DISPENSERS,
ADA-Compliant . . . 1496-1499, 1501, 1514, 2736
Adhesive 670, 679, 685, 688, 2172, 2219, 2233-2234, 2236, 2238
Air Freshener 1505-1507
Bead 1628
Beverage 1439, 1443, 1462-1463
Bottle Top 653
Bouffant 1732
Breakroom Supply 1434, 1443
Cellophane Tape 1396
Cereal 1443
Chemical . . . 1520-1522, 1525, 1533, 2457, 2702
Condiment 1443
Coolant 2461
Cup 1434, 1826
Disposable Cutlery 1435
Drink 1825
Drinking Water 1137, 2721
Drum 861, 1143-1146, 1188
Dust Mask/Respirator 1758
Ear Plug 1646-1648, 1732
Eyewear 1665
Feminine Napkin 1494
Fluid 936, 1498, 2461, 2463, 2465
Flux 232
Foam 1496-1498, 1884, 2238
Glove 1673
Grease 933-934, 2465, 2672
Hairnet/Beard Cover 1732
Hand Cleaner 1496-1501, 1514, 2727-2728, 2736
Hand Wrap 1417
Hot Water 2721, 2732
Ice 3002-3004
Insulation 2238
Label 1395-1396, 1398, 1404, 1450
Lotion 1496, 1498, 1501, 2727-2728
Odor Control 1506-1507
Oil 931, 936, 2461, 2463, 2465
Paper Cup 1434, 1826, 2721
Paper Napkin 1434, 1443
Plastic Bag 1350, 1407
Portion Control 1520-1522, 1525
Protective Film 1624
Roll Paper 1321
Safety Tag 1939, 1950
Sanitary Napkin 1494
Sanitizer 1496, 1498-1499, 1501, 1514
Sealant 670, 679, 685, 688, 2172, 2219, 2233-2234, 2236, 2238
Shampoo 1496-1498
Shoe Cover 1623, 1732
Soap 1496-1498, 1501, 1514, 2727-2728, 2736
Solvent 654, 1522, 1525
Strapping 1404, 1419, 1424
Straw 1434
Stretch Wrap 1417
Swimming Pool Chemical 1481
Tampon 1494
Tape 373, 1357, 1394-1396, 1398
Tissue 1488, 1494
Toilet Seat Cover 1494
Toilet Tissue 1488-1489, 2760-2761
Towel 1443-1444, 1485-1488, 1492
Tubing 1408
Vandal-Resistant 1488
Wall Block Deodorant 1505
Wiper 1491-1492, 1500, 1510
Wire Marker Tape 373

DISPENSING NEEDLES 2235

DISPLAY
Baskets 1332
Board Magnets 1359, 1367
Cases 1458
Easels 1371
Fixtures 998, 1246, 1330, 1350

DISPLAYPORT CONNECTORS 361

DISPLAYS,
Document 1383
Interactive 2022, 2050
LED Message 2022, 2050
Literature 1349-1350, 1372, 1383
Panel Meter 226
Temperature 559, 583-588, 590-591, 594, 637, 1455, 3026
Test Instrument Replacement 3046
Weight Indicator 1426

DISPOSAL
Cans 1836, 1875-1876
Cases, Blade 809
Systems, Aerosol Can 1864

DISPOSALS,
Garbage 2732

DISPOSER HARDWARE 2732

DISSOLVED OXYGEN METERS 627-628

DISTANCE
Meters 537, 604, 878, 880
Wheels 877, 1611

DITCH BANK BLADES 1007

DIVERTERS,
Leak 1857

DIVIDERS,
Acetal Push-to-Connect 2850
Bin . . . 1279-1280, 1282, 1284-1291, 1294, 1307
Binder 1361-1362
Compass 884
Drawer 1289, 1291, 1303, 1305
Duct 303
Floor Box 312
Hydraulic Flow 2477
Plastic Box 1289, 1291, 1294
Plastic Tubing 2850
Raceway 304-306
Room 1121, 1352
Shelf 1242, 1246-1247

DOCK
Bumpers 1129
Chock Chain Hangers 1130
Cranes 1063
Curtain Doors 1121
Door Controls 1125
Door Seals 1124, 1128, 2000
Door Shelters 1128
Fans 2919
Gates 1128, 1134
Ladders 1040, 1049
Levelers 1128
Lights 518
Ramps 944, 1126-1128
Roll-Up Doors 1123
Safety Mirrors 1913-1914
Scales 1429
Screen Doors 1121

DOCKPLATES 1127

DOCUMENT
Displays 1383
Holders 830, 950, 1358-1359, 1383
Pocket Hangers 1383
Pockets 830, 1358, 1383
Pouches 830, 1383, 1404
Protectors 830, 1361, 1380, 1383
Stands 1383

DOG TREATS 1440

DOLLIES,
Aluminum 1135, 1192
Bakery Tray 1292
Band 930
Barrier/Safety Cone 1911
Bin 1192, 1281, 1287, 1290, 1300
Cabinet 1192, 1275, 1870
Car 944
Cross-Braced 1142
Desk 1192
Dish Rack 1447
Drum 511, 930, 1142, 1556, 1565, 1861
E-Track 1166
Flush 1106, 1191-1192
Furniture 1168, 1191-1193, 1275, 1341
Garbage Can 1556
Grease Pump 930
Industrial 930, 1142, 1189, 1192-1193, 1275, 1861
Machine 1192-1193
Pail 1142
Pallet 1135, 1192
Panel 1168
Pipe 849, 1168
Plastic 1106, 1142, 1191, 1292, 1556
Refrigerator 1189
Roller 1142, 1192-1193
Spill-Catching 1142
Stack Chair 1190, 1341
Steel 944, 1142, 1163, 1168, 1192-1193, 1275
Tote Box . . . 746, 1192, 1287, 1292-1293, 1300
Wheel 944
Wood Platform 1191
Workstation 1865

DOLLY ROLLERS 1193

DOME
Cameras 2045-2048
Dinner Plate Covers 1445
Mirrors 1914
Stops 2004

DOMES,
Grill Hood 1459

DOOR
Access Control Locks 1971-1974, 1980
Access Intercoms 2033-2035
Access Keypads 1971-1972, 1976, 1979, 1996
Access Power Supplies 1976, 1978-1979
Activation Devices 1973, 1976, 1978, 1980, 1992, 1996
Air Curtains 2969-2971
Alarm Cylinders 1996
Alarms 1933, 1995-1996, 2053
Bells 2034, 2053
Bolts 1994
Bottoms 1124, 2000
Brackets 1123, 1975
Chimes 2053
Deadbolts 1123, 1973-1974
Edge Guards 2006
Escutcheons 1993-1995
Exit Devices 1976, 1978, 1993-1996
Frame Repair Kits 1998
Frame Seals 1124, 1999-2001
Frames 1997
Guards, Security 2005
Handles . . . 1980-1989, 1993-1996, 2005, 2762
Hardware 1119-1121, 1123-1124, 1451, 1976-1978, 1984-1985, 1990-1996, 1998, 2003, 2005, 2007-2014, 2055, 2762, 2937
Hinges 1119, 1124, 2007-2014
Holders 1976, 1985, 2003-2004
Keys, Electromagnetic 1973
Knobs 1985-1987, 1989, 1993-1994
Knockers 2005
Latch Bolts 1996
Latch Guards/Protectors 1998
Latches 829, 2005, 2017, 2762
Lock Batteries 534, 1976, 1996
Lock Knobs 1993
Locks 298, 1123, 1971-1974, 1980, 1985, 1995
Locks, Electromagnetic 1975-1976
Locks, Programmable . . . 1971-1974, 1980, 1996
Locksets 1973-1974, 1980-1989
Louvers 2937
Magnets 1976
Mats 1890-1892
Mortise Cylinders 1996
Plates 1993-1994, 1998, 2005
Pulls 1106, 1994-1995, 2003, 2005, 2018, 2762
Pushes 1994, 2005
Releases 1976-1977
Remote Controls 1125, 1978
Rollers 1123-1124
Screens 1121
Silencers 2005
Stops 1985, 2003-2005, 2762
Strikes 1974, 1977
Strip Rolls 1120-1121
Sweeps 2000
Switches 301, 1978
Thresholds 2002
Tissue Dispensers 1494
Tissues 1488
Tracks 1120
Trim 1993-1996, 1998, 2005
Viewers 2005

DOOR CLOSER
Disconnect Switches 298
Replacement Parts 1992

DOOR CLOSERS 1990-1993

DOOR OPENERS,
ADA-Compliant 1978
Powered 1125, 1978, 1992

DOORS,
Air 2969-2971
Bathroom Stall 2761-2762
Cabinet 1242
Curtain 1120-1121
Dock 1120-1121, 1123
Dust Barrier 1122
Fire-Rated 1997-1998, 2002
Flexible Panel 1121
Freezer 1120-1121
Garage 1123
Heat-Retaining 1120-1121
Impact 1121-1122
In-Plant Office 1311-1312
Kitchen 1121-1122
Mesh 1121, 1230, 1314-1315
Restaurant 1121-1122
Restroom Stall 2761-2762
Security 1230, 1997-1998
Shelving 1242
Strip 1120-1121, 2409
Swinging 1121-1122, 1230, 1312, 1315
Traffic 1120-1122, 1451
Transparent Warehouse 1121
Warehouse 1120, 1121, 1123
Wire Partition 1134, 1230, 1314-1315

DOPPLER FLOWMETERS 2686

DOSIMETERS,
Noise 624

DOSING PUMPS 2667, 2688

DOTS,
Adhesive 1386, 1902

DOVETAIL
Cutters 2318
Fixture Clamps 2316, 2318
Fixtures 2318

DOWEL PINS 2153

DOWNDRAFT TABLES 2363, 3060

DOWNLIGHTS 429-430

DRAFT
Inducer Motors 60
Inducer Mounting Kits 3103
Inducers 3103-3104

DRAFTING
Chairs & Stools 1333-1334
Table Lights 516, 2340

DRAIN
Arms 2722, 2724
Ball Valves 2572-2573
Brushes 1544-1547, 3095
Catch Basin Parts 1858
Cleaning Air Guns 864
Cleaning Bladders 2437, 2751
Cocks 2914
Covers 1858, 1862, 2723-2725, 2998
Extensions 2722, 2724
Gates 2810
Gratings 2723-2725, 2727
Hoses 1857, 2587, 2634-2636
Lift Rod Assemblies 2723
Line Heaters 3067
Maintainers 1504
Openers 864-865, 1504, 2437, 2751, 3010
Pan Treatments 3012
Pans 931, 1857, 1861, 1869, 1875
Plugs 1297, 1859, 2723-2725, 2748, 2808-2809
Pumps 2619-2624, 2626, 2631, 2640, 2661-2662, 2676-2677, 2694
Seal Containers 1858
Seals 1858, 1862, 2723, 2759
Spades 998
Stopper Chains 2723
Stoppers 2723, 2748
Strainers 2723-2725, 2727, 2748
Tailpieces 2722, 2724
Trap Adapters 2724
Traps 2722, 2724, 2732, 2808-2809, 2821
Valves 2571-2573, 2597, 2730, 2914, 3010

DRAIN BOXES/TRAYS,
Food Service 1450

DRAIN CLEANER
Accessories 673, 864-865, 2437
Augers 865
Cables 673, 865
Cutters 865
Guns 671, 863-864, 2437, 3010
Hoses 1593
Machines 671, 673, 863-864, 2437
Tool Sets 865

DRAIN CLEANERS,
Liquid/Foam 1504, 1521
Manual 863
Pipe 671, 863, 2437, 2751
Toilet 863
Water Jet 864

DRAIN KITS,
Air Conditioner 2992-2993
Heat Pump 2993
Tank 1297

DRAIN PANS,
Automotive Fluid 931
Furnace 3092
Water Heater 2716

DRAINBOARDS,
Utility Sink 2729

DRAINS,
Air Line Filter 2571, 2593, 2597-2599
Automatic 2571-2573, 2587, 2590, 2593, 2597-2599
Ball Valve 2572-2573
Electrical Enclosure Condensate 298
Floor 2724-2725
Gutter 980
Lavatory 2723-2725, 2747-2748
Oil 931
Roof 2725
Shower 2723
Sink 2722-2725, 2727, 2747-2748
Waste 2722-2725, 2727, 2747-2748

DRAW
Hasps 2016
Studs 852

DRAWBARS,
Hitch 958-959

DRAWER
Bins 1290-1291, 1303, 1306
Dividers 1289, 1291, 1303, 1305
Hanging Kits 1320
Locks 1317, 1963
Organizers 745, 1305, 1444
Slides 2017

DRAWERS,
Bench 1316-1318, 1320
Cabinet Storage 1170, 1263-1265, 1305, 2055
Cart 1319
Compartmented 1305
Desk 1320
Hanging 1320
Locking 1320-1321
Parts Cabinet 1305, 2055
Shelving 1306
Storage 1305-1306, 2055
Workbench 1316-1321

DREMEL ROTARY TOOLS 724

DRENCH SHOWER
Curtains 1843-1844
Detergent Injectors 1824
Heaters 1824
Hoses 1824, 1841-1842, 1844
Pumps 1824
Testers 1842
Wash Wands 1824

DRENCH SHOWERS 1842-1844

DRESSERS,
Grinding Wheel 2359

DRESSINGS,
Belt 2440-2441
Cable Contact 2443

DRIFT
Pins 862
Punch Sets 821
Punches 821-822, 862

DRILL
And Drive Accessories 700, 768
And Drive Sets 699, 701, 851
Angle Kits 697, 703
Battery Chargers 667, 671, 674, 681, 686, 689-690, 1570
Clamps 2316
Collets 729, 2312, 2346
Drifts 2315
Drum Mixers 893
Extension Kits 697
Extensions 705
Gages 2338
Holders 755, 2315
Hole Saws 706-708, 816, 851, 2813
Holsters 755
Jigs 2586
Mills 2295, 2344
Replacement Parts 2254
Rods 2187
Sleeves 2315
Stop Collars 123
Wire Brushes 862, 2395-2398, 2400, 2618
Wire Wheels 2395-2396

DRILL AND TAP
Gages 2338
Sets 851, 2262

DRILL BIT
Adapters 713-714, 716
Arbors 713-714
Extensions 705
Sharpeners 2254

DRILL BIT SETS,
Countersink 2255-2257, 2262, 2265
Electrician's 711, 851
Glass and Tile 709, 2169
Hammer 709, 711
Hex Shank 698, 705, 851
Masonry 709, 711, 851
Metalworking . . . 2239, 2244, 2252, 2255, 2262
Metric 2239, 2244
Multimaterial 699, 704, 711
Quick-Change 699
Step 704
Wood Boring 705

DRILL BITS,
4-Facet 2244
Aerospace 2239, 2241, 2243, 2245, 2252-2253
AlCrN-Coated 2249
Amber Finish 704, 2239, 2250
Auger 705
Black and Gold Finish 2239, 2241-2242, 2250-2251
Black Oxide Finish 698, 701, 704, 709, 2239-2241, 2243, 2245, 2251-2253, 2256
Bright Finish 699, 704, 851, 2239-2240, 2244-2246, 2252, 2255-2257, 2260, 2262, 2265
Bronze-Coated 2239
Bronze Oxide Finish 2250
Carbide 709, 711, 851, 2161, 2244-2248, 2255, 2257

Carbide-Tipped . . . . . 708-709, 711, ... 713-714, 716, 2260
Center Reamer. 2256-2257
Ceramic Drilling 709, 2169
Cobalt . . . . . 704, 2239, 2242-2243, 2246, ... 2250, 2253, 2255-2257
Cold Fire Coated 704
Combination. 851, 2265
Concrete 709, 711-714, 2161, 2166
Contractor's. 705, 709, 711
Coolant-Through 2248
Coring 713-714, 716
Countersink 699, 851, 2255, 2262, 2265
Double-End 2252, 2255
EgiAs Finish. 2246-2247
Extended Length 705, 2247-2248, 2252
Extension. 2247-2248, 2252
Glass Drilling 2169
Gold Ferrous Oxide Finish 704
Hammer. 709, 711-714, 716, 2161, 2166
Hex Shank 698-700, 705, 851
High-Speed Steel. . . . . 701, 704, 708, ... 851, 2239-2242, 2245, 2249-2252, ... 2255-2256, 2262, 2265
Insert 703, 779-780
Jobbers Length 704, 2239-2249, 2252
Left-Handed. 2239-2240, 2245, 2250
Masonry. . . 709, 711-714, 716, 851, 2161, 2166
Mechanic's Length 2239, 2250
Multimaterial 709, 711
Parabolic 704, 2239, 2242, 2249
Pilot 704, 706, 708, 851
Radial Point 2242
Reamer 2256-2257
Reduced Shank 2239, 2241, 2250-2251
Rock. 711
Rotary Hammer 711-713, 2161
S and D 2239, 2250-2251
Screw Machine Length 2245-2246, 2262
Self-Feed 705
Silver and Deming 2239, 2250-2251
Spade. 705, 713-714
Spear-Point 709, 2169
Spiral Flute 2242, 2246-2248
Split Point 851, 2242-2244, 2250, 2252
Steam-Oxide Finish 2242
Step 704, 851
Straight Flute 2260
Straight Shank. 2242, 2246-2247, 2249
Straw Finish. 2243, 2246, 2250
Taper Length 2248, 2252
Taper Shank. 2251
Threaded Shank. 2253
TiAlN-Coated . . . 2239, 2241, 2243-2244, 2257
TiCN-Coated. 2239, 2241-2242
Tile Drilling. 709, 711, 2169
TiN-Coated. . . . . 704, 851, 2239-2240, ... 2242-2245, 2255-2256
TiNAl-Coated 2248
Titanium-Coated 701, 2242
Wood Boring 704-705, 709, 711, 2240

DRILL CHUCK ADAPTERS. 710

DRILL CHUCKS 703, 2314

DRILL PRESS
Annular Cutters 740
Clamp Kits 2316
Cross Vises 2346
Guards 2345-2346, 2363
Vises 2346

DRILL PRESSES,
Bench. 2344-2345
Cordless. 676
Floor. 2345
Magnetic 676, 740
Radial. 2345
Variable Speed. 2345

DRILLS,
Air 2504
Angle . . . . . 665, 668, 672, 682, 686, ... 690, 692, 697, 703, 2504
Center 2255
Concrete . . . . . 665, 667-668, 675, 683, ... 687, 690, 693, 710, 714
Corded 696-697, 710, 714, 724
Cordless. . . . . 665, 667-668, 672, 674-675, . . . 681-683, 686-687, 689-690, 692-694, 710
Coring 673, 716
D-Handle 687, 697, 710, 716
Diamond Coring. 716
Driver. . . . . 665, 667-668, 672, 674-675, ... 681-682, 684, 686-687, 689-690, ... 692, 694, 2161
Electric 673, 696-697, 710, 714, 716, 724
Engine 1008
Gas-Powered 1008
Hammer. . . . . 665, 667-668, 672, 674-675, ... 681-683, 686-687, 690, ... 692-694, 710, 714
Mid-Handle 696
Pistol-Grip 696, 710, 2504
Pneumatic 2504
Reversible 696-697, 710, 1008, 2504
Rock. 2513
Spade. 697

DRINK
Coolers. 1825-1827
Cup Holders 950
Cups. 1431-1433, 1445, 1825-1826
Dispenser Stands. 1439, 1825
Dispensers. 1825
Mixes. 1437, 1825

DRINKING
Fountain Filters 2706
Fountain Replacement Parts 2719
Fountains. 2718-2720, 2731
Water Systems. 2703-2705

DRINKS. 1437, 1825-1826

DRIP
Emitters 2764
Trays 931, 1857, 1861, 1869, 1875

DRIP PANS,
Oil 931, 1251

DRIPPROOF MOTORS . . . . . 9-11, 13-14, 17, ... 19-26, 36, 46, 51, 56-57, 59-64, 2658

DRIVE
Adapters 155, 699, 710, 873
Arbors 2399
Belts. 96-108, 2567
Bits . . . . . 698-703, 714, 758-759, 762, ... 765, 767-771, 776, 779-780, 854, 860
Caps. 1916, 2656
Couplings. 127, 2656
Mounts. 155, 157
Pin Punches. 822, 2337
Plugs 772, 780
Points. 2656
Sleeves 323
Tensioners 120-121
Train Tools 912, 916-917

DRIVER LOG BOOKS 963

DRIVERS,
Anchor Pin 2147, 2161
Bearing 912, 917
Cordless. . . . 667-668, 672, 674-676, 681-682, ... 684, 686-687, 689-690, 692, 694, 852
Cordless Impact. . . . . 665, 667-668, 672, 674, . . . 676, 681-682, 686-687, 689-692, 694, 698
Demolition Hammer Rod 713, 715
Demolition Hammer Stake. 715
Floor Machine 1578-1579, 1581-1582
Hex. 696, 773, 778, 786, 801, 803, 805
Horn Speaker. 2040
Impact . . . . . 665, 667-668, 672, 674, 676, ... 681-682, 686-687, 689-692, 694, ... 697-698, 773, 776-778
Insert Bit 786
LED 423, 471
Nut. . . . . 365, 698-701, 800-801, 804, ... 846, 848, 854, 856-857, 862
Pad. 1578-1579, 1581-1582, 1584
Post 1010
Power . . . . . 665, 667-668, 672, 674-676, ... 681-682, 686-687, 689-692, 694, 2143
Punch. 676, 852
Rod Hanger 2147
SDS 665, 710
Seal 912, 917
Socket 696, 759, 768-769, 776-778, 2503
Torque . . . . . 672, 682, 686, 692, 696, ... 786, 856, 2504

DRIVES,
AC 153-158
Adjustable-Frequency 153-157
Motor 27, 153-159
Power 27, 153-158
Thumb 1354
Variable-Frequency 153-158

DROP
Boxes. 1350, 1967
Ceiling Box Supports 317
Cloths. 1100-1101, 1623
Cords 412, 514
Lights. 396, 516, 522
Slot Safes 1968

DROPPERS. 658

DRUM
Adapters 1144, 2675, 2677
Basins 1864
Blankets. 1141
Bogies 1864
Bung Sockets. 1140
Cabinets. 1872
Carriers . . . . . 930, 1142-1146, 1188, ... 1190, 1861, 1864, 2673
Carts 1864, 2673
Cradles. 1143, 1864, 1872
Deheaders 1140
Dispensers. 861, 1143-1146, 1188
Dispensing Racks 1864
Dollies 511, 930, 1142, 1556, 1565, 1861
Dumpers 1144-1146
Fans. 2920-2921, 2923
Faucets 1140
Funnels 930, 1140, 1861
Gaskets 1139
Grabbers 1144-1146
Grounding Wire 1876
Heaters 1141
Inserts 1139
Level Gauges 581, 1140
Lids 893, 1139-1140, 1861
Lifters 861, 1143-1146
Liners. 1139
Loaders 1144-1146
Locks. 1139-1140, 1861
Mixers 891, 893, 1141, 1605, 2689
Mount Vacuum Cleaners 1565, 1573
Openers 863, 1140, 2751
Overpacks 1138, 1854, 1861
Pallets 1135, 1862-1863, 1865, 1867
Rings 1139
Rotators. 1143, 1146
Safety Vents. 1140
Samplers 633
Sanders 2362
Sanding Kits. 2381
Scales 1425
Seals 963
Sight Tubes 1140
Slings. 1144
Stackers. 1864
Storage Racks 1143, 1864
Switches 167
Transporters. 1143-1146
Trays 1861
Trucks 1142-1143, 1146, 1188, 1190
Valves 1140
Wrenches. 863, 1140, 2751

DRUM COVERS 1139-1140, 1861

DRUM PUMP
Motors 2675
Replacement Tubes 2675
Sprayers 1001
Strainers 2675

DRUM PUMPS . . . . . 896, 933-934, 936-937, ... 2670, 2672-2677, 2695

DRUMS,
Closed-Head 1138-1139, 2695
Collapsible 2363
Concrete Mixer 893
Dust Collector 2363
Fiber 1138
Food-Grade 1138-1139
Garage Door Cable. 1123
Hazardous Material 1138-1139, 1861
HDPE (High-Density Polyethylene) . . . 1139, 1861
Open-Head. 1138-1139
Overpack 1138, 1861
Plastic 1139, 1861, 2695
Rotary Tool. 724
Salvage 1138, 1861
Shipping. 1138-1139, 1573, 1861, 2695
Steel 1138, 1573
Storage 1138-1139, 1573, 1861, 2695
Traffic Channelizer. 1910
Vacuum Cleaner. 1573

DRY
Bath Beads 639
Baths 639
Blast Cabinet Guns 2402-2403
Blast Cabinet Media. 2404
Blast Cabinets 2402

DRY-ERASE
Board Cleaners 1367
Board Magnets 1359, 1367
Boards 1337, 1352, 1358, 1367-1371
Calendars. 1370-1371
Easels 1370-1371
Erasers. 1367
Markers 1367
Sheets 830, 1367

DRY ICE CHESTS. 1300, 1402

DRYER
Arm Extensions/Adapters 1493
Booster Fans 2949
Cords 401
Exhaust Duct 2949
Sheets 1516

DRYERS,
Air 2565-2566, 2587-2589
Air Conditioner. 3015
Boot/Shoe 1757
Clothing 1466
Desiccant. 2588-2589
Fire Hose 1817
Floor. 2989
Glove 1757
Hair 1474
Hand 1493
Helmet 1757
Liquid Line 3015

DRYWALL
Adhesives . . . . . 889, 1597, ... 1630, 2225, 2228-2229
Anchors 2169-2170
Circle Cutters. 889
Clips. 889
Cornerbead Tools. 889
Cut-Out Tools 667, 688, 729
Cutter Tools 724, 808, 889
Fasteners. 2169-2170
Firestop Sealants. 1884
Hammers 827
Hand Sanders 911, 2366-2367
Hawks 889
Hopper Guns 889
Joint Knives. 808, 887-888
Mesh Tape 889
Mud 1597, 1630
Mud Mixers 675, 889, 891, 1605
Nails. 2111

Patches 889, 1597
Sanders 687, 724-725, 889
Sandpaper 2368
Saws 886, 889
Screwdrivers 696
Screws 696, 2109
Sponges 889, 2369
Sprayers 889
Squares 884, 889
Tapers 889
Taping Knives 887-889
Trowels 889

DUCKBILL
Pliers 841
Snips 816

DUCT
Access Doors 3101
Adapters 2997
Air Cleaners 3059, 3093
Blast Gates 3099
Blowers 1784, 2972-2987
Carriers 1784-1785
Clamps 3098
Connectors 293, 1784-1785, 2945, 2949, 2995, 3097
Couplings 1784-1785, 2949
Covers 303
Cutters 303, 816
Dampers 3099-3101
Detector Sampling Tubes 1780, 2051, 3029
Divider Walls 303
Double Branches 3098
Dust Cover Endcaps 3097
Extensions 293
Fans 1784, 2940-2942, 2944-2947, 2949, 3103-3104
Fittings 293, 3097-3099
Flanges 2995, 2997, 3098
Floor Sweeps 3099
Free Fans 2942
Heater Elements 3065, 3078
Heaters 2947, 3063, 3065
Insulation 2834-2835, 2837-2838
Kits 2948-2949, 2997, 3083
Knives 816
Liners 2834
Outlet Adapters 3083
Protection Film 1623
Reducers 293, 2921, 2944, 2949, 3098
Sealants 2230-2233, 2236
Smoke Detectors 2051, 3029
Straps 2827
Stretchers 816
Tape 1385-1388, 1391, 2963
Transitions 2921, 2949

DUCT,
Air 1785, 2949, 2997, 3083-3084, 3097-3099, 3102
Blower Exhaust 1784-1785
Blower Intake 1784-1785, 2408
Exhaust 2949, 2997, 3097-3099, 3102
Fan 2921, 2948-2949
Flexible 303, 2921, 2949, 3083-3084, 3097, 3102
In-Cut 3098
Open Slot 303
Portable Heater 3083-3084
Quick Assembly HVAC 3098-3099
Spot Cooler 2997
Supply 2949, 3097-3099, 3102
Tap-In 3098
Voice/Data Cable 293, 303
Wire Management 293, 303, 305-306

DUCTING
Hoses 2610-2612, 3099
Kits 2715, 2921, 2948-2949

DUCTLESS SPLIT SYSTEMS 2994-2995

DUFFEL BAGS 757, 1774

DUMP CARTS 1158-1159

DUMPERS 1144-1146

DUNNAGE
Bags 1413
Racks 1252

DUROMETERS 2341

DUST
Barrier Accessories 1122, 1623
Caps 2489-2491, 2559
Cloth Holders 1534, 1536
Cloths 911, 1524, 1535-1538
Containment Shelters 1122, 3060
Extractor Accessories 722, 2363
Extractor Attachments 710, 715
Extractors 710, 1566-1567
Masks 1738, 1758-1760, 1762
Mitts 911, 1538
Mop Frames/Heads 1532, 1534-1537
Mops 1524, 1534-1537
Plugs 2489-2490
Respirators 1738, 1758-1760, 1762
Valves 2876
Wipers 911, 1518, 1535, 1538

DUST COLLECTOR
Bags 1574, 1579, 2363, 2403
Blast Gates 3099
Drums 2363
Filters 2363
Hose Kits 722, 2363
Shrouds 722
Solenoid Valves 2876
Tables 3060

DUST COLLECTORS,
2-Stage 719, 2363
Blast Cabinet 2403
Canister 710
Central 719, 2363
Industrial 710, 719, 2403, 3060
Portable 683, 719, 2363, 3060
Single-Stage 2363, 2403
Workshop 719, 722, 2363, 3060

DUST COVERS,
Machine 1100
Relay 219

DUSTER HEADS 1518, 1535, 1538

DUSTERS,
Aerosol 232, 1354, 2446
Bench and Counter 911, 1544, 1546-1547
Ceiling Fan 1538
Compressed Gas 232, 1354, 2446
Feather 1538
Lambswool 1538
Microfiber 911, 1518, 1535, 1538
Telescoping 1538

DUSTPANS 911, 1541-1542, 1546-1547

DVD/CD
Holders 1358
Markers 1365, 1615
Shredders 1376-1377

DVDS,
Blank 1354
Training 1943

DVI CONNECTORS 361

DYE
Injectors 3009
Penetrant Cleaners 2427, 2494, 3009
Penetrants 2427

DYES,
Layout 2427
Leak Detection 633, 897, 946, 2427, 2494, 3009, 3012
Pond and Lake 633

E

E-TRACK SYSTEMS 1104-1107

EAR
Buds 2032
Muff Cushions 1649
Muffs 1648-1649
Plug Dispensers 1646-1648, 1732
Plug Pods/Tips 2032
Plugs 1643-1647, 1707

EARPIECES,
Radio/Media Player 2024, 2028-2032

EARTH AUGERS 1008

EARTH/GROUND TESTERS 540, 555, 557

EARTHQUAKE
Safety Devices 1870, 2162-2163, 2171
Sway Braces 2168

EASEL PAPER PADS 1372

EASELS 1370-1371

EDGE
Finders 2336
Guards 2006

EDGE PROTECTORS,
Packaging 1424

EDGERS,
Concrete 892
Gasoline-Powered 987
Lawn 987
Paint 1620

EDGING,
Neoprene 2207
Rubber 2206-2207
Vinyl 2206

EJECTOR
Pump Systems 2625-2626
Springs, Hole Saw 708

EJECTORS,
Jet Pump 2653

ELASTIC WRAP BANDAGES 1830, 1833

ELASTOMERIC SPRAYS 1884

ELBOWS,
Acetal Push-to-Connect 2850
Air Duct 3097, 3099
Aluminum 321, 1308
B-Vent 3096
Black Forged Steel Pipe 2776-2777
Black Malleable Iron Pipe . . . 2768-2770, 2773
Brass Barbed 2530, 2849, 2853
Brass Pipe 2722, 2748, 2790-2795, 2853, 2911
Brass Push-to-Connect Tubing 962, 2558, 2806-2807, 2850-2852
Brass Tubing 962, 2558, 2586, 2805-2807, 2849-2856, 2860, 3094
Bronze Pipe 2802
Carbon Steel Pipe 2779
Cast Brass Pipe 2911
Cast-Iron 1308
Conduit 313, 315, 320-322, 324, 449
Copper Pipe/Tubing 2795, 2797-2799, 2801-2802, 3015
Drain/Waste/Vent 2722, 2798, 2808-2810
Ductile-Iron Pipe 2780
Galvanized Malleable Iron Pipe 2768-2770, 2773
Galvanized Steel Duct 3099
Galvanized Steel Pipe 2768, 2770, 2776-2777
Gas Vent Pipe 3096
Hydraulic Hose 2482, 2485-2488, 2854
Nylon Push-to-Connect 2556-2557
Nylon Threaded Tubing 2556-2557
Nylon Tubing 407, 2556-2557
Plastic Pipe 2617, 2722, 2808-2817, 2821
Plastic Tubing 2554-2557, 2636, 2764, 2807, 2821, 2850, 2856
Polyamide 2586, 2617
Polybutylene Push-to-Connect 2554-2555
Polyethylene Tubing and Pipe 2807
Polypropylene Barbed 2636
Polypropylene Push-to-Connect 2850
Polysulfone Push-to-Connect Tubing 2807
Pull 313, 320-321
Push-to-Connect Cable 324
PVC Barbed 2813
Raceway 304-307
Railing 1308
Rotary Joint 2846
Saddle Vent 1784-1785
Stainless Steel Duct 3099
Stainless Steel Flare Tubing 2487-2488, 2854
Stainless Steel Instrumentation Tubing 2857-2859
Stainless Steel Pipe . . . 2782, 2785, 2787, 2846
Stainless Steel Tubing 2488, 2781, 2788, 2803, 2851, 2854, 2857-2859
Steel Pipe 2776-2777, 2780, 2804
Wire Duct 293

ELECTRIC
Blankets 949
Blowers 988, 1784-1785
Brakes 95
Cable Cutters 347, 671, 678, 845, 853
Chain Hoists 1050-1054
Chain Saws 1004
Concrete Vibrators 149
Conduit Benders 850
Drain Valves 2572
Drills 673, 696-697, 710, 714, 716, 724
Drum Dumpers 1146
Exit Devices 1978, 1993
Fence Wire 1010
Grinders 681, 683, 687, 691, 695, 719, 721-724, 2359-2361
Hammers 673, 710, 714-715
Head Sequencers 3035
Heaters 302, 874, 1141, 1783, 2942-2943, 2947, 2996, 3030, 3063-3080, 3091
Hoists 1050-1054
Impact Wrenches 697
Irons 1475
Lifts 942, 1032-1033, 1179, 1182-1183
Motor Protection 153-154, 160-174, 182, 189, 196, 216, 219-220, 224, 278
Motors (See Motors)
Nibblers 688, 726
Polishers 723-724
Pressure Washers 1587-1588, 1590
Relays 161-164, 168-172, 215, 217, 219-224, 278, 288, 470, 3031, 3035, 3041, 3092
Routers 729, 731
Sanders 687, 691, 719, 721-722, 724-725, 2360-2362
Screwdrivers 696, 786, 2504
Shears 726, 815-816
Staple Guns 684
Staplers 669, 684, 890, 1360
Strikes 1977
Tackers 684
Transformers (See Transformers)
Trucks 1175, 1179, 1186
Vibrators 148-149, 151
Water Heater Thermostats 3033
Winches 1064, 1081-1083, 1478

ELECTRICAL
Block Covers 393
Box Covers 175, 185, 190, 262, 308-312, 320, 338, 340
Box Gaskets 309
Box Plugs 310
Box Supports 308, 317, 319
Box Trim Rings 311-312
Boxes (See Electrical Enclosures)

Cabinets. 353-354, 357
Cable Reels 396-398, 400, 2526
Cable Sleeves 370-371, 373, 376-378, 407
Cables 323, 345-349, 412, 961, 1093, 3070
Circuit Protectors. 186, 394
Coatings. 380, 905, 2443
Conduit 313-314, 320-322, 324
Conduit Fittings 308, 313-315, 317-324
Conduit Hole Seals. 298
Connectors. . . . . 262, 306, 326-327, 334, ... 336-342, 376, 378-381, 383-392, ... 2656, 2883, 3035
Contact Cleaners 901, 2446, 2448-2449
Cord Adapters 335, 400
Cord Protectors 402
Cord Reels 396-398, 400, 522, 2526-2527
Cords . . . . . 347-348, 353, 362, 397, 399-402, ... 412-413, 429, 2926, 3067
Counters 225-227
Couplings. 313, 315, 320-321
Disconnects. . . . . 160, 175-176, 186, 342, ... 383-384, 3094
Firestops 1883-1884
Interlock Kits 175
Inverters 209, 929
Labels 225, 305, 370-373, 1928, 1937
Lockout Kits. 167, 191, 296, 1948-1952
Markers 305, 367, 370-371, 373
Neutral Kits 176
Outlets . . . . . 304, 330-333, 336-342, 402-403, ...412-414, 1311-1312, 1320-1321
Panel Lockouts 191, 1945, 1948, 1952
Panels 189-191, 197, 412
Phase Converters. 209
Plug Adapters 335, 361, 400, 402
Plugs 334-342
Power Meters . . . . . 225, 536-538, 540-542, ... 544, 547, 551-552, 559
Protection Equipment 1709, 1711
Protection Equipment Bags 1707, 1709
Protective Clothing . . . . . .1703, 1707-1709, ... 1712, 1714, 1728, 1740
Protective Footwear. 1750, 1752
Protective Gloves. 1709-1710
Protective Windows. 609, 614-615
Receptacle Caps 328
Receptacles. . . . . 304, 330-333, 336-342, ... 353, 402-403, 412-414, 1311-1312
Sealants. 380, 905, 2443
Surge Protectors . . . . . .188, 190-191, 197, ... 203-204, 213-214, 332, 353, ...402-403, 412-413, 3031
Tape. 374-375, 905, 1387, 1389
Terminal Tools 917
Terminals. 351
Voltage Testers . . . . . 536-547, 551-552, ... 556, 558, 562, 607, 921, 1711
Weatherproof Covers . . .309-311, 320, 338, 340
Wire 230-231, 343-347, 349

ELECTRICAL ENCLOSURE

Air Conditioners. 301-302
Condensate Drains. 298
Coolers. 301-302
Covers . . . . . 175, 185, 190, 262, 308-312, ... 320, 328, 338, 340, 430
Fans. 302, 2926-2927
Frames. 300
Gaskets 309
Heaters 302, 3065-3066
Latches 296
Locks. 296
Mounts. 198, 258, 312, 317-318
Panels 297, 300
Screws. 198
Windows 300

ELECTRICAL ENCLOSURES,

Conduit 308-312, 316, 320-321, 340, 342
Junction. 292-296, 299
NEMA/JIC Surface Mount . . . . . .167, 175, ... 217, 258, 292-296, 299-300, ... 309-311, 320, 462
Nonmetallic . . . . . .175, 248, 258, 298-300, ... 311, 320, 331, 342
Operator. 240, 248-249, 258, 275
Panel (Or Breaker Panel) 189, 191-192, 196-197
Raceway 304-307
Starter/Contactor/Relay 163, 170, 173, 217-218

ELECTRICIAN'S

Harnesses 1796, 1798
Hole Saw Kits 706, 846
Knives 808
Ladders 1024-1028, 1030, 1036
Rivet Tools 303
Screwdrivers . . . . . .365, 798-799, 801, ... 848, 854, 856-857, 861
Snips 303, 365, 815-816
Tap and Drill Sets. 851, 2262
Tool Sets . . . . . .365, 711, 839, 846, 848, ... 854, 856-857, 861
Tool Storage. 754-757, 859, 1798

ELECTRODE

Cases. 756, 2416
Clamps. 323
Pads. 1838

ELECTRODES,

Carbon. 2422
Copper Base 2422
Cutting. 2423
Defibrillator 1838
Dissolved Oxygen 630
Gouging. 2422
Ground Rod 323
Nickel. 2417
ORP (Oxidation-Reduction Potential) 630
pH 629-630
Stainless Steel. 2417
Steel 2417
Stud Removal. 2417
Tungsten 2419
Welding 2417, 2419, 2423

ELECTROMAGNETIC

Clutch & Brakes. 95
Door Holders 1976
Keys. 1973
Lock Power Supplies 1976, 1978-1979
Locks. 1975-1976

ELECTRONICS

Lubricants 2440-2441
Packaging Foam 1411, 2199-2200
Recycling Kits 512
Screwdrivers 802-804, 846
Tool Cases 846
Tools . . . . . 232, 365-366, 382-384, 389, ... 802-803, 815-816, 833, 839, ...841-842, 844, 846-847

ELECTROSTATIC DISCHARGE (SEE ESD)

ELEMENTS,

Air Filter. 947
Air Line Filter . . . . . 2575, 2585, 2589-2594, ... 2596-2599, 2601-2603
Anti-Tie-Down 2551
Duct Heater 3065, 3078
Electric. 2713
Filter . . . . . 947, 1784, 2492, 2567, 2575-2576, ... 2585, 2589-2594, 2596-2599, ... 2601-2603, 2641
Fuel Filter. 947, 2671
Heater 3065, 3067, 3079, 3081, 3090
Immersion 2713
Prefilter 2591
Separator. 2571, 2587, 2589
Soldering Heating 235, 238-239
Water Heater 2713

ELEVATOR

Bolts. 2073
Sump Pumps 2622

ELIMINATORS,

Odor. 1505-1506, 1517, 1520-1521, 1524
Stray Voltage 548

EMBLEMS,

Hard Hat/Helmet 1640

EMBOSSERS,

Identification Tag 372

EMERGENCY

Bedding 1823
Call Buttons 2034
Drinking Water. 1837
Escape Respirators 1773
Exit Alarms. 1993, 1995-1996, 2053
Exit Signs. . . . . 425-428, 1903, 1920, ... 1922-1924, 1926
Eyewash Stations 1839-1844, 2741
Food Rations 1837
Key Boxes 1966-1967
Lockdown Kits. 1835
Off Actuators 167
Oxygen Cylinders. 1773
Phones. 2035-2036
Power Generators 981-984, 2560, 2562
Power Off Push Buttons. 1978
Shovels 997
Showers. 1842-1844
Signs 425-428, 1920-1922, 1924-1925
Spill Kits. 965, 1527-1528, 1853-1856
Stop Controls . . . . . 243, 245, 247, 250-255, ... 274-275, 278
Stop Safety Covers 1946
Tow Cables 1084
Vehicle Kits 965
Vehicle Lights 972-975, 1888
Vehicle Reflective Tape 964
Wash Stations 1824, 1839, 1841-1844

EMERGENCY LIGHTING

Ballasts 423
Batteries 423, 429, 535
Controls. 220
Fixture Wire Guards. 2053
Fixtures 422-427, 460
Lamps 497, 500-501
Remote Heads. 423

EMERGENCY LIGHTING,

Power Failure. 422-427, 460

EMERGENCY RESPONSE

Equipment Carts 1823-1824
Medical Kits. 1820, 1837-1838
Public Safety/Rescue Kits 1835
Rescue Equipment. . . . . 812, 1786, 1809-1810, ... 1821-1822, 1824
Rescue Suits 1810, 1824
Shelter Accessories. 1824
Showers. 1824
Stretchers 1822

EMERY SHEETS. 2366

EMT CONDUIT 313

ENAMEL

Paints. 907, 1598-1601, 1606-1609
Primers . . . . . .906-907, 1598, ... 1600-1601, 1606-1607

ENAMELS,

Acrylic 1598-1600, 1604, 1606, 1608-1609
Alkyd 907, 1598, 1601, 1607-1609
Fast Dry. 907, 1598, 1600-1601, 1604, 1607
Water-Based 1599-1600

ENCLOSURE

Air Conditioners. 301-302
Bases. 258
Brackets. 319
Cooler Replacement Parts. 2583
Coolers. 301-302, 2926-2927
Covers . . . . . 175, 185, 190, 262, 308-312, ... 320, 328, 338, 340, 430, 3090
Fan Filters 301-302
Fans. 302, 2926-2927
Frames, Electrical 300
Gaskets 309
Heaters 302, 3065-3066
Interior Panels 297, 300
Locks. 296, 1317, 1963
Louver Plate Kits 300
Mounts. 198, 258, 317-318
Panels 297, 300
Pedestals. 258
Thermostats. 3066

ENCLOSURES,

Circuit Breaker. 189-192, 197
Circuit-Lock Disconnect Switch. 175
Control Relay 217-218
Data Access Port 306-307
Electrical (See Electrical Enclosures)
Environmental Containment 1122
Filtered 635-636
In-Plant 1311-1312
Laboratory Evaporator 635
Motor Starter 163, 170, 173
Network/Server 353
Pallet Rack. 1229
Pull Box 292
Push-Button. . . . 240, 248-249, 258, 275, 1979
Relay 217-218
Screen 2410
Shelving. 1229, 1451
Smoke Detector 3029
Speaker 2039
Stainless Steel. 294-295
Switch . . . . . .163, 167, 170, 173, 240, ... 248-249, 258, 275, 1979
Switched 175
Television. 2023
Underground 299
Valve 2907
Wall Furnace Vent 3085
Watertight 299-300, 600
Weatherproof. . . . 292-295, 297-300, 309-311, ... 320, 462, 1979, 3029
Wire 293, 1134, 1229-1230, 1314-1315

ENCODER ACCESSORIES. 226, 357

ENCODERS. 226, 1970

END

Brushes 862, 2395-2398
Nippers 839, 842, 855

END BARRIERS,

Terminal Block. 394-395

END BLOCK CONNECTORS. 2598

END CAPS,

Air Duct 3097-3098
Air Line 1224, 2586
Baseboard Heater 3090
Closet Pole. 1476
Framing 316, 1119
Guardrail 1133
Raceway 304-307
Wall Guard 2006
Wireway. 293

END COVERS,

Baseboard Heater 3090

END MILL HOLDERS 2311

END MILLS,

2-Flute 2280-2297
3-Flute . . . . . 2280-2283, 2286, 2288, 2290, ... 2292-2294, 2297
4-Flute 2280-2297, 2346
5-Flute 2281-2283, 2286-2287, 2292-2293
6-Flute . . . . . 2281, 2283, 2285-2286, ... 2288, 2291, 2293
7-Flute 2292, 2294
8-Flute 2284, 2286, 2297
10-Flute 2297
20-Flute 2297
AlTiN-Coated . . . . . 2281-2283, ... 2288, 2290, 2292-2295
Ball-Nose 2284, 2288-2292
Bright Finish . . . . . 2280, 2282, 2284-2286, ... 2288-2292, 2294-2297
Carbide . . . . . 731, 2280-2285, 2287-2290, ... 2292-2297, 2307
Center Cut 2280-2296
Chamfer Cutter 2296
Cobalt 2285-2286, 2291

Corner Chamfer 2294
Corner Radius 2281, 2288, 2292-2294, 2297
Corner Rounding 2294
Diamond-Coated 2280, 2287, 2297
DLC Finish 2280
Double-End 2286, 2292, 2295
Extended Cut 2280, 2282-2283
Finishing 2280-2296
GMS Finish 2280
GMX-35 Finish 2280, 2293
High-Speed Steel 731, 2285-2286, 2291, 2295, 2346
Keyway 2295
Miniature 2288
MLT Finish 2280
nACRo Finish 2287, 2293-2294
Powdered-Metal 2287
Roughing 2280-2284, 2286-2290, 2292-2294, 2297
Routing 2297, 2299
Square 2280-2287, 2297
Straight Shank 2281, 2286, 2292, 2295
Stub Length 2280-2283
TiAlN-Coated 2280-2284, 2286-2290, 2292-2296
TiCN-Coated 2280-2281, 2285-2286, 2289-2291, 2295
TiN-Coated 2280-2281, 2283, 2285-2287, 2290-2291, 2295, 2297, 2346
Torus 2288
Weldon Shank . . . 2285-2286, 2291-2292, 2295
WXL-Coated 2294
WXS-Coated 2294
ZrN Finish 2280

END MOUNTS,
Hydraulic Cylinder 2480

END PANELS,
Locker 1254

END PLATES,
Pneumatic Valve 2543-2544, 2548, 2550

END STOPS,
Plumbing 2554, 2806, 2850
Workbench 1316-1317

END SUPPORTS,
Platform 1040

ENDS,
Raceway 304-307
Rod 132, 2077
Turnbuckle 1090-1091
Yoke 2075

ENERGY METERS 547, 551

ENGINE
Cleaner Spray Guns 1626
Cleaners . . . 896-897, 900-901, 908, 939, 2446
Coolants 903-904, 962
Degreasers 908, 2447
Drills 1008
Driven Generators 981-984, 2421, 2560, 2562
Driven Pumps 2632-2633, 2637
Driven Welders 2421
Fluid Leak Detection Dyes 897
Fuel Filters 947, 2671, 2710
Hoists 943, 1064
Lubricants 894-897, 900
Mounting Kits 943
Oil Additives 897
Oil Change Pumps 2672
Oil Stabilizers 897
Oil Stop Leak Fluids 897
Oils 894-897, 900
Paints 906-907
Stands & Stand Adapters 943
Starter Fluids 897
Starters 897, 925-928
Throttle Controls 2574-2575
Tools . . . 758, 765, 801, 839, 912, 917, 919-920

ENGINES,
Diesel 985
Gasoline 985
Light 430, 471

ENGRAVER POINTS, ROTARY TOOL 724

ENGRAVERS,
Electric 724

ENGRAVING
Bits 724
Pens 2511

ENTRANCE
Alert Receivers 2053
Alert Sensors 2053
Mats 1890-1892

ENTRY
Tools 1007, 1820
Touch Keys 1973

ENVELOPES,
Mailing 1406
Packing List 1404
Padded 1406

ENVIRONMENTAL
Containment Enclosures & Accessories . . . 1122
Control Units 1824

ENZYMES 1505, 2732

EPDM RUBBER 2199, 2204, 2206-2207

EPOXY
Adhesives 17, 905, 1632-1633, 1904, 2217, 2220-2221, 2230, 2233, 3012
Coatings 1602, 1604, 1606, 1631, 1634
Enamel 1604
Floor Paints 1602, 1604, 1634
Guns 670, 2219
Injection Systems 1632
Injection Tools 2219
Kits 1602, 1633, 2217, 2220, 3012
Nozzles 2172, 2219
Paints 1602, 1604, 1606, 1609, 1634
Patches 2220
Potting Compounds 2217
Primers 1606, 1634
Screens 2161

EPOXY,
Abrasion-Resistant 2220-2221
Aluminum 2217, 2220-2221, 3012
Brushable 2221
Ceramic 2217, 2221
Chemical-Resistant 2217, 2220-2221
Ferro-Silicon 2220
Insulating 905, 2217
Patch . . . 905, 1632-1633, 2217, 2220-2221, 3012
Pipe Repair 2821, 3012
Resurfacer 2220-2221
Steel 905, 2217, 2220-2221
Water-Based 1602, 1604, 1634
Water-Immersion 2217, 2220

EQUIPMENT
Cases . . . 536-537, 539, 546, 548-549, 604, 1304
Covers 951, 986, 991, 1100, 1410, 1416
Skates 1193

ERASER SPONGES 1515, 1548

ERASERS,
Whiteboard 1367

ERGONOMIC
Back Supports 1706
Chairs & Stools 1333-1336
Footrests 1320-1321, 1335
Knee Supports 1705
Lift Carts 1181-1182
Lift Tables 1178, 1181-1182
Mats 1893-1898
Pallet Levelers 1178, 1181-1182
Work Stands 1169, 1181-1182
Workbenches 1316-1317, 1319-1323
Wrist Supports 1706

EROSION-CONTROL BLANKETS 1012

ESCAPE
Hood Training Kits 1773
Hoods 1764, 1773
Ladders 1880

ESCUTCHEONS,
Conduit 315
Door 1993-1995
Faucet 2748, 2750
Pipe 2722-2723

ESD
Air Guns 2582
Bags 561
Bins 1286, 1302
Boots 1754
Bottles 654
Cabinets 1305
Cable Reels 2526
Casters 1195, 1198, 1335
Chairs 1334-1335
Clamps 392
Conductive Tape 375
Cords 561, 921
Kits 561, 921, 1320
Mats 561, 1897-1898
Racks 1280
Screwdrivers 786, 802-803
Shoes 1751
Sticks 1711
Stools 1335
Strap Testers 561
Straps 561, 921, 1320
Systems 561, 921, 1320
Trays 1293
Vacuum Cleaners 1572
Workbenches 1316, 1320-1321, 1399

ETHERNET
Cables 350, 352, 354
Gateways 600, 1972
Jacks 356
Plugs 355
Switches 357

ETHYLENE OXIDE DETECTORS 622

EVACUATION
Chair Accessories 1821
Chairs 1821
Hoses 2636-2637, 2691, 3006
Map Holders 1926
Pumps 931, 946, 2581-2582, 3007
Tools 3010

EVAPORATIVE COOLER
Capacitors 2998
Casters 2998
Cord Kits 2998
Covers 2998, 3001
Float Assemblies 2998
Louver Kits 2998
Media 2999
Motors 56, 2998
Pads 2999
Pumps 2619-2620, 2691, 2998, 3001
Replacement Parts 2998
Switches 2998
Valves 2911
Water Treatments 2998

EVAPORATIVE COOLERS
. . . . . 2921, 2998, 3000-3001

EVAPORATIVE HUMIDIFIERS 3061

EVAPORATOR
Coil Cleaners 3011
Coils 3091
Fan Motors 38
Pads, Humidifier 3092
Pan Cleaners 3012
Pump Accessories 635

EVAPORATORS,
Rotary 635

EVIDENCE SEARCH METAL DETECTORS
. 2044

EXAM ROOM
Sterile Light Covers 514
Surgical Light Handles 514

EXCHANGERS,
Fluid 918, 946
Heat 2493, 3039

EXERCISE EQUIPMENT 1477

EXHAUST
Assemblies 3087
Cleaners 896
Duct 2949, 2997, 3097-3099, 3102
Fans 2924-2925, 2928-2935, 2941-2948, 2952-2956, 2958-2961, 2964-2968
Filters 233, 1624, 2581
Grilles 302
Hoses 2606
Mufflers 2551, 2575, 2603
Range Hoods 2955
Shutter Motors 2936, 2938-2939
Shutters 2936-2937, 2967
Solenoid Valves 2878, 2881
Stack Kits 1624
System Tools 917
Valves 2547, 2551-2553, 2555, 2863, 2878, 2881
Ventilators 1785, 2928, 2933, 2941, 2943-2945, 2947-2948, 2952-2961, 2964-2966
Vents 1624, 2965

EXHAUSTERS,
Fume 2408, 3060
Smoke 2408, 2966, 3060

EXIT
Alarms 1993, 1995-1996, 2053
Bars 1976, 1993-1996, 2003
Buttons 1978

EXIT DEVICE
Electric Latch Converters 1993
Handles & Vertical Rods 1993-1996
Trim 1972, 1993-1996
Wire 1978

EXIT DEVICES . . . 1972, 1976, 1978, 1992-1996

EXIT SIGNS,
Emergency 425-428, 1903, 1920, 1922-1924, 1926
Fire Door 1903, 1924
Hazardous Location 428
Lighted 425-428
Self-Luminous 428, 1923
Vandal-Resistant 428

EXPANDERS,
Tail Pipe 917
Tubing 671, 678, 684, 868, 3010

EXPANSION
Anchors 2163, 2165, 2168
Joint Compounds 2221
Joints 2845
Nuts 2165
Plugs 2823
Shields 2163, 2165
Tank Air Vents 2661
Tanks 2661, 2717
Valves 3019, 3091

EXPLOSIONPROOF
(See Also Hazardous Location)
Fans 1784-1785
Lighting Fixtures 449, 451, 460
Transducers 580
Vacuum Cleaners 1572

EXTENDERS,
Conveyor 1108

Lamp 280, 465
Reach 1551
Socket 465

EXTENSION
Bars, Socket 758, 768-769, 771-772, 861-862
Boxes, Lighting Fixture 309, 449-450
Cord Adapters 335, 400
Cord Connectors 334
Cords 361, 397, 399-402, 412-413
Handles 547, 1534, 1546-1547, 1551
Hoses 1000, 2363, 2461, 2822, 3006
Ladders 1027-1030
Poles 1005, 1534, 1546-1547, 1551, 1618-1620, 1625
Rings 308
Sockets 2315
Springs 327, 1123, 2158
Taps 2267, 2273-2274

EXTENSION CABLES,
Pipe Inspection Camera 617
Thermocouple 230
Video 359

EXTENSION KITS,
Drill 697

EXTENSIONS,
Blow Gun 864, 2515, 2518
Brush 2161
Coring Bit 716
D-Ring 1793, 1796, 1804
Drain 2722, 2724
Drill 705
Drill Bit 705
Duct 293
Earth Auger 1008
Exit Device Rod 1994
Forklift 1177
Hand Truck Noseplate 1184-1185
Hex Drill Bit 705
Hole Saw Arbor 705, 708
Impact Socket 761, 769, 774-777, 779-781
Infrared Heater 3087
Noseplate 1184-1185
Ratchet 759, 768
Scaffold 1044
Screwdriver Shaft 703
Socket 465, 703, 759-761, 763, 765, 768-769, 771-772, 774-777, 779-781, 854, 2147, 2315
Spray Gun 1625
Steel Pipe 2768
Tire Valve 954
Vent 3085
Work Platform 1032, 1044
Workbench Leg 1321

EXTRACTION
Cleaners 1517, 1520, 1522
Hoses 1577, 2408
Tool Accessories 1577-1578
Tools 1578, 2260

EXTRACTOR ARMS,
Air Cleaner 233

EXTRACTORS,
Bolt 2260
Carpet Cleaner 1517, 1577-1578
Compression Packing 2700
Dust 710, 1566-1567
Fume 233, 636, 2408, 3060
Oil 918, 931, 936, 946
Pin 914
Pipe 871
Screw 2260
Stud 2260
Tee 871

EYE
Brackets 2480, 2537-2538
Cups 1830-1831
Dressing Kits 1831
Drops 1830
Hooks 1069-1071, 1084
Slings 1076-1077, 1079

EYE NUTS,
Forged 2075
Lifting 1069, 2075
Metric 1069, 2075

EYEBOLTS,
Drop-Forged 2076-2078
Lifting 1069, 2076-2078
Machinery 274, 2076, 2078, 2317
Metric 2076
Turned Wire 2077
Wood Screw 2077

EYEWASH
Solutions 1830-1831, 1834, 1837, 1839
Stands 1839
Station Alarms 1844
Station Carts 1839
Station Covers 1839, 1844, 2741
Station Gauges 1844
Station Heating Jackets 1839
Station Push Flags 1844
Station Replacement Parts 1839, 1844, 2741, 2750
Station Waste Containers 1839
Station Water Preservatives 1839
Stations 1839-1844, 2741
Tempering Valves 1844

EYEWEAR
Cases 1665, 1668
Cords 1656, 1665
Foam Gaskets 1659
Frames 1655
Lens Cleaners 1666
Safety Lenses 1655, 1667

EYEWEAR,
Magnifying 1662-1664, 1667
Over-the-Glasses (OTG) Style 1650, 1653, 1664, 1667-1668
Polarized 1660
Protective 881, 1650-1664, 1667-1668, 1707, 1709
Visitor 1650

F

F-CLAMPS 833, 836

FABRIC
Paints 907, 1609
Shavers 1475
Softener Balls 1475
Softeners 1475, 1516

FABRIC,
Burlap 2215
Fence 1010-1012
Landscape 1003
Roof Repair 1630
Wire 1010, 2190

FABRICATION EQUIPMENT 2356, 2358

FACE
Masks 1642, 1738, 1758-1763
Mill Holders 2311
Mills 2346

FACEPLATE THERMOMETERS 591

FACEPLATES,
Abrasive Disc Pad 2376
Aluminum 309-310, 328
Blank 305-306, 309, 328, 356
Brass 328
Cable Pathway 1884
Combination 306, 308, 328
Electrical 262, 304-312, 320, 328, 338, 340, 356
Fire Alarm 2051
GFCI (Ground Fault) 310, 328
Nylon 328
Raceway 304-307
Receptacle 304, 306-309, 328, 338
Security 328
Snap-On 356
Stainless Steel 328, 355
Surface Box 356
Switch . . . 259-260, 262, 304, 306-309, 328, 330
Tamper-Resistant 328
Telephone 328, 355-356
Thermostat 3021, 3028
Timer 415, 421
Voice/Data 304, 306, 328, 355-356, 360
Weatherproof 309-310

FACESHIELD
Assemblies 1639, 1709, 1769, 2407
Covers 1761-1762, 1766, 1769, 1771, 2405
Headgear 1639
Visors/Windows 1639, 1709, 1715

FACESHIELDS,
CPR (Cardiopulmonary Resuscitation) 1831, 1837
Electrical-Protective 1707, 1709
Hard Hat/Fire Helmet 1639, 1709
Welding 1766-1767, 1769, 2405

FACIAL TISSUES 1488

FACTORY BELLS 1375, 2052

FALL PROTECTION EQUIPMENT 1786-1807

FAN
Adapters 2944
And Limit Controls 3034-3035, 3104
Bases 2916
Belts 96-105, 2567, 2998
Blade Pitch Gauges 3010
Blade Shaft Protector Sets 913
Blades 2940, 2950-2951
Centers 3035
Control Panels 3033
Control Starters 165, 167
Control Switches 167, 174, 419, 465, 2917, 2922, 2929, 2944, 2946, 2949
Controls 153-158, 167, 217, 220, 416, 419-420, 465, 2917, 2922, 2944, 2946, 2949, 2955, 2968, 3016, 3024, 3028, 3033-3035, 3103
Cord Sets 2926
Covers 2967, 2998
Curb Caps 2940
Dampers 2938-2939, 2944
DC Motors 27, 2493
Discharge Caps 2940
Duct 2921, 2948-2949
Filters 301-302, 2926, 2989, 3051
Flanges, Tubeaxial 2940-2941
Forced Heaters 302, 3068-3070, 3076-3078, 3084
Frames 2930
Grilles 302, 2926, 2943
Guard Filters 3051
Guards 302, 2916, 2926-2927, 2934, 2940-2941, 3089
Hubs 2950
Misting Ring Kits 2916-2917
Motors 8, 16, 27-30, 35, 38-59, 61-64, 2493, 2943-2944
Mounting Hardware 317, 2916-2917, 2920, 2925
Pedestals 2916
Propellers 2940, 2950-2951
Proving Switches 570, 3046, 3104
Pulleys 2998
Relays 217, 220, 3035
Replacement Parts 2916, 2943-2944, 2948
Shutter Covers 2967
Shutter Pull Chains 2936
Shutters 2936-2937, 2967
Speed Controls 154, 157, 465, 2917, 2922, 2929, 2944, 2946, 2949, 2955, 3103
Stands, Rolling 2923
Switches 167, 174, 419, 465, 2916-2917, 2922, 2929, 2944, 2946, 2949, 3046, 3077, 3104
Thermostats 2968, 3024, 3028
Tilt Kits 2920
Timers 416, 419-420
Toggles 2949
Wall Collars 2934
Weather Hoods 2934
Yokes 2917

FAN/HEAT ELEMENT SEQUENCERS . . . 3035

FANS,
(See Also Air Circulators, Blowers, and Ventilators)
Agricultural 2917, 2919, 2921, 2928
Air Circulator 2915-2922, 2924
Assembled 2915-2921, 2923-2924, 2928, 2967-2968
Attic Exhaust 2967-2968
Automotive 950, 2925
Axial 302, 1784-1785, 2926-2927, 3104
Bathroom 2942-2945, 2947-2948
Belt-Drive 2920, 2928, 2932-2935, 2940-2941, 2952-2956, 2958-2962, 2966-2967
Box 2923
Cabinet 2935, 2945
Canister 1784
Ceiling Exhaust 2930, 2933, 2943-2945
Ceiling-Mount 2916-2919, 2922-2923, 2930-2935, 2942-2945
Centrifugal 1784-1785
Circulator 2915-2922
Clip-On 2924
Commercial 2915, 2917-2918, 2920, 2922-2923, 2929-2935, 2944-2945
Compact 950, 2924-2925
Compressed Air 2583
Cone 2928
Confined Space 1784-1785
Corrosion-Resistant . . . 2917, 2919, 2928-2929
Crawl Space 2948
Dashboard 950, 2925
DC 2925-2926
Desktop 2923-2924
Direct-Drive 2917, 2919-2921, 2923, 2928-2931, 2941, 2952, 2954-2956, 2960-2961, 2967, 2998
Dock 2919
Drum 2920-2921, 2923
Duct 1784, 2940-2942, 2944-2947, 2949, 3103-3104
Duct-Free 2942, 2947-2948
Enclosure 302, 2926-2927
Equipment-Cooling 302, 2917, 2925-2927
Evaporative-Cooling 2998
Exhaust . . . 2924-2925, 2928-2935, 2941-2948, 2952-2956, 2958-2961, 2964-2968
Exhaust/Supply 2931, 2935, 2965
Explosionproof 1784-1785
Exterior-Mount 2948
Farm-Duty 2917, 2928, 2998
Filtered 302
Floor 2915-2917, 2920-2921, 2923-2924
Foldable 2915
Frequency Drive 157
Greenhouse 2921
Guard-Mount 2924-2925, 2930, 2967-2968
Hazardous Location 1784-1785, 2919, 2929, 2931, 2940-2941, 2955, 2958, 2960
High-Velocity 2919, 2921, 2967
High-Volume 2919-2922
Hog House 2917, 2928, 2998
Horizontal 2930-2935, 2940
HVLS (High Volume Low Speed) 2922
In-Line 2940-2941, 2944-2947, 2949, 2962, 3103-3104
Industrial 2915-2922, 2925, 2929-2935, 2941, 2952-2962, 2964-2966
Jobsite Cordless 670, 679, 688
Kitchen 2944, 2947-2948
Livestock 2917, 2928, 2998
Misting 2916
Mobile 2920-2921, 2923, 2998
Moisture-Resistant 2917

Muffin 302, 2926-2927
Oscillating 2915, 2917-2918, 2923-2924
Outdoor 2917
Paddle 2922
Pedestal-Mount 2915-2919, 2923
Personal 2923-2924
Portable 2920-2921, 2923-2924, 2989
Poultry 2917, 2928, 2998
Remote-Mount 2946-2948
Residential 2923-2924, 2942-2945, 2948, 2967-2968
Restroom 2942-2945, 2947-2948
Reversible 2924-2925, 2931, 2935, 2965
Ring Frame Exhaust 2930
Roof-Mount 2952-2961, 2964-2968
Room-to-Room 2947
Shutter-Mounted 2929, 2967-2968
Slant-Wall 2928
Smoke Evacuation 2929, 2931, 2940, 2966
Speed-Controllable 2922, 2929, 2954-2955, 2957, 2961
Spray Booth 2940-2941
Supply 2931-2935, 2940-2941, 2961-2962, 2964-2965
Table 2923-2924
Transformer-Cooling 2925
Tubeaxial 2940-2941, 3104
Vehicle Dashboard 950, 2925
Venturi 2930-2931
Vertical 2925, 2929-2935, 2940
Wall-Mount 2915-2919, 2923-2924, 2928-2935, 2942-2944, 2947-2948, 2954-2955
Washdown 2917, 2919
Washroom 2942-2945, 2947-2948
Whole House 2967
Window 2924, 2967

FARM-DUTY
Fans 2917, 2928, 2998
Motors 34-35
Paints 1606, 1609

FASTENER
Pins 1043, 2150-2151, 2169
Pouches 756
Reference Manuals 2054
Tools 2169

FASTENERS,
(See Also Anchors, Bolts, Screws, Washers, etc.)
Adhesive 905, 1020, 2218
Bracing 2171
Conveyor Belt 1115
Drywall 2169-2170
Hook-and-Loop 1393-1394
License Plate 2055
Molly 2170
Nylon 2084, 2086, 2091, 2096, 2130, 2148-2149
Pneumatic 2497-2501
Post 1912, 1916
Reclosable 1393-1394
Seismic Safety Strap/Equipment . . . 1870, 2171
Structural Framing 318, 1119
Voice/Data Grid Wire 318

FAUCET
Cartridge Pullers 2748
Connectors 2718, 2723, 2764, 2807, 2850
Escutcheons 2748, 2750
Handle Pullers 2751
Hole Covers 2723
Locks 2911-2912
Pedal Valves 2727, 2743-2744
Repair Kits 2727-2728, 2747-2750
Replacement Parts 2723, 2726-2728, 2741, 2743-2744, 2746-2751, 2754, 2757
Safety Cans 1876
Tools 2748, 2750-2751
Trim Plates 2748, 2750
Wrenches 2751

FAUCETS,
1-Handle . . . 2732-2734, 2736-2741, 2743-2745
2-Handle 2733, 2737-2743, 2760
ADA-Compliant 2733-2743, 2760
Automatic Battery-Operated 2734-2736
Back-Mount 2733, 2735, 2737, 2739-2742, 2744
Bar 2739-2742
Bathroom 2733-2739, 2741-2742, 2760
Commercial 2733-2744, 2760
Drum 1140
Foot-Pedal 2743
Gooseneck 2703, 2733, 2735-2736, 2738-2744, 2748
Hose 2735, 2743-2744, 2911
Infrared 2734-2736
Institutional 2733-2742, 2744-2746, 2760
Kitchen 2703, 2705, 2732-2733, 2735, 2739-2742
Laboratory 2735, 2739, 2743-2744
Laundry 2741-2742
Lavatory 2733-2739, 2741-2742, 2760
Lawn 2911
Metering 2733-2736, 2760
Mop Sink 2739, 2741-2742
Prerinse 2740
Restroom 2733-2739, 2741-2742, 2760
Safety Barrel 1140
Scullery 2739-2742
Tub 2745-2746, 2748
Wall-Mount 2733, 2735, 2737, 2739-2742, 2744
Washroom 2733-2739, 2741-2742, 2760

FEATHER DUSTERS 1538

FEEDER
Cable Fittings 326
Cables 345
Terminals 392

FEEDERS,
Grease 2465
Welding Wire 2411

FEELER GAGES 917, 2180, 2337

FEET,
Machine 1222, 1224-1225
Structural Framing Leveling 1119

FELT 2215

FEMININE HYGIENE PRODUCTS 1494

FENCE
Components 1010-1012
Tool Pliers 839

FENCES 1010-1012, 1019, 1133, 1230, 1314-1315, 1527, 1908

FENDER
Bumpers 1129
Covers 948
Washers 2087-2088, 2091-2092

FERRULES,
Brass Compression Tubing 2859
Brass Instrumentation Tubing 2859
Plastic Compression Tubing 2856
Pneumatic Hose 2530
Stainless Steel Compression Tubing 2858-2859
Stainless Steel Instrumentation Tubing 2858-2859
Stainless Steel Tubing 2788, 2858-2859
Wire Crimping 386

FERTILIZER
Spray Pumps 1002, 2669, 2693
Spreaders 951, 995-996

FERTILIZERS 1003

FESTOON SYSTEMS 1092-1093

FIBER DISCS,
Abrasive 2371-2376, 2382

FIBER DRUMS 1138

FIBER-OPTIC
Adapter Panels 357
Adapters 356, 358
Cabinets 357
Cable Strippers 365
Cables 281, 357, 362
Cleaners 232, 363
Connectors 356, 358, 536
Light Sources 363
Meters 363
Patch Cords 357, 362
Scopes 543, 616-617, 672, 684, 866
Surface Box Faceplates 356
Surface Boxes 356
Test Kits 363
Testers 362-364
Tools 363, 365, 815-816, 846

FIBERGLASS
Adhesives 905, 2216-2217, 2220, 2228-2229, 2231-2233, 2819, 2834
Cloth 906
Insulation 2832, 2837-2838
Repair Patches 906, 2821
Resin Hardeners 906
Resins 906

FIBERGLASS,
Grating 2195-2196
Plate 2194
Rod/Tube 2197

FILAMENT,
3D Printer 664

FILE
Carts 1347
Cleaners 820
Folder Labels/Tabs 1361-1362, 1406
Folders 1361
Handles 820
Sets 818, 820, 2393
Sorters 1358
Storage Boxes 1381
Storage Hanging Clamps 1347
Storage Racks 1233-1237, 1239, 1244

FILE CABINET
Bars 1962
Bases 1345
Hanger Bars 1361
Locks 1963

FILE CABINETS & SYSTEMS,
Blueprint 1345, 1347
Fire-Rated 1344
Hanging 1337, 1344-1345, 1361
Insulated 1344
Lateral 1337, 1344-1345
Open Shelf 1346
Roll 1347
Vertical 1344

FILES,
3-Square 818-819
4-in-Hand 818-819
Aluminum 818-819
Bastard Cut 818-819
Cantsaw 818
Chain Saw 820
Diamond 814, 820
Escapement 820
Flat 818-819, 1345, 2393
General Purpose 818, 820
Half-Round 818-819, 2393
Handy 820
Hobby 818
Knife 818-819, 2393
Knife Blade 2393
Lathe 819
Machinist's 818-819
Metal 814, 818-820
Mill 818-819
Needle 818, 820
Pillar 819
Precision 818
Rasp 818-819
Rectangular 819
Restoring 820
Rotary 2298-2300
Round 818-820, 2393
Second Cut 818-819
Sharpening 1453, 2393
Slim Taper 818-819
Smooth Cut 818-819
Square 818-819, 2393
Taper 818-820, 2393
Thread Restoring 820
Triangular 818-819, 2393
Wall 1350, 1358
Warding 818-819
Welder's 819

FILLER
Adhesives 905, 1597, 1631-1633, 2172, 2217-2218, 2220-2221, 2223, 2225, 2230
Breathers, Hydraulic 2495
Hardeners 905-906
Plates 190-191, 198, 1975

FILLERS,
Asphalt/Concrete 1632
Auto Body 905-906
Battery 922
Radiator 930
Spackling 1597
Wood 1597, 2220

FILM,
Carpet Protection 1099-1100, 1623
Duct Protection 1623
Laminating 1380, 1970
Poly Construction 1099
Polycarbonate 2209
Polyethylene 1099-1100, 1414-1416, 1623
PVC 1418
Shrink 1418
Stretch 1414-1416
VCI (Volatile Corrosion Inhibitor) 1414
Window 1623

FILTER
Assemblies 2926
Bags 938, 1563, 1565, 1570, 1574, 1576, 1858, 2571, 2711
Bowls 2602
Carts, Hydraulic 1181, 2492
Covers 1760, 1762-1764
Crushers, Oil 919
Drain Kits 2593, 2598-2599
Frame Clips 3057
Frames 3056-3057
Gasketing 3055
Grilles 3102
Handles 3052
Holders 1761, 1763, 1784
Housing Brackets 2706, 2708
Housings . . . 2671, 2706-2707, 2710-2711, 2896
Kits 1770, 2581, 3093
Material 662
Mats 301
Mounting Brackets 2593, 2597-2599, 2601, 2706, 2708
Pads, Respirator 1758, 1760-1762
Panels 3052, 3054, 3058
Papers 662
Replacement Parts 2708, 2989
Screens 2896-2897
Support Rods 3058
Vents 2463-2464, 2551, 3102
Wrenches 919, 2671, 2708

FILTER ADAPTER HEADS 2671, 2704

FILTER ADAPTERS,
Respirator 1760-1761, 1763

FILTER CARTRIDGES,
Blast Cabinet 2402
Fluorescent Lamp Crusher 511
Fuel 2671, 2709-2710

Ice Maker 3002-3004
Respirator 1760-1765, 1768
Water 635, 2703-2710, 2719, 3003

FILTER/DRYERS,
Air Conditioner 946, 3015
Automotive 946
Heat Pump 3015
Refrigerant 946, 3015

FILTER ELEMENTS,
Air Compressor 2567, 2576, 2585
Air Line 2575, 2585, 2589-2594, 2596-2599, 2601-2603
Automotive Fuel 947, 2671
Coalescing 2575, 2585, 2589-2594, 2596-2599, 2601-2603
Hydraulic 2492
Lubricant 947
Spin-On 2492
Water 2641

FILTER MEDIA
Pads 3057-3058
Rolls 1624, 3057-3058

FILTER MEDIA,
Carbon 2722, 3057, 3060
Fiberglass 3057-3058
Foam 2926, 3057
Hog Hair 3057
Polyester 3057-3058

FILTER/REGULATOR/LUBRICATOR
Connectors 2595, 2598, 2601
End Blocks 2598
Lockout Valves 2595, 2601
Manifold Blocks 2595
Mounting Brackets 2595, 2598
Pipe Adapters 2595

FILTER/REGULATOR/LUBRICATORS,
Air Line 2595, 2598, 2600-2602

FILTER/REGULATORS,
Air Line 2594, 2597, 2599, 2601-2602

FILTER/SILENCER ELEMENTS 2576

FILTER/SILENCERS,
Blower 2576
Compressor 2575-2576

FILTERED
Fans 302
Workstations 636

FILTERS,
Aerosol Can Recycling System 1606, 1864
Air (See Air Filters)
Air Circulator 2989, 3051
Air Cleaner 233, 2363, 2408, 2989, 3049, 3059-3062, 3093
Air Compressor 2567-2568, 2575-2576, 2584
Air Line 1626, 2575, 2589-2594, 2596-2598, 2600-2603
Automotive Lubricant 947
Bag 1568, 1574, 2711, 3053, 3059
Beverage 2703-2706, 3004
Bottle Top 661
Box 3054-3056, 3059
Breathing Air 1771
Carbon Media 233, 636, 1606, 1864, 2591, 2703-2707, 2709, 2722, 2990, 3050, 3055, 3059-3061
Cartridge 1576, 1762-1763, 2402, 2408, 2641, 2702-2706, 3004, 3054, 3059
Charcoal Media 2722
Chlorine Removal 2703-2707, 2709, 3004
Coalescing 2591-2592
Coffee 1443
Compressor 1771, 2567-2568, 2575-2576, 2584
Contaminant 2702-2706, 3004
Cube 3053
Cyst Removal 2703-2705, 2709
Dehumidifier 3093
Discharge 2492, 2575-2576
Drinking Fountain 2706
Dust 233, 598, 2363, 2403
Dust Collector 2363
Electrostatic 3051
Exhaust 233, 1624, 2581
Extended Surface 3053-3055
Fan 301-302, 2926, 2989, 3051
Fan Guard 3051
Fiberglass 662, 3051, 3053-3055
Fluorescent Lamp Crusher 511
Fuel 947, 2671, 2710
Fume Hood 636
Furnace 3047-3056
Gas Detector 1781, 3008
Grease 3052
Heating 1624, 3047-3052, 3055-3058, 3076, 3083
HEPA 636, 1563, 1565-1566, 1568, 1570, 1572, 1576, 1764, 2989, 3056, 3059-3061
High-Capacity Air 3047-3048, 3050, 3058
High-Efficiency Air 2593, 3054-3055
Humidifier 3061, 3092
Hydraulic 2492, 2495
Ice-Maker 2703-2706, 3002-3004
In-Line 1626, 2558, 2589, 2603, 2703-2706, 2710, 3004
Industrial Air 2408, 3053-3056, 3059
Inlet 1593, 2492, 2567-2568, 2575-2576, 2584, 2694
Intake 1624, 2567-2568, 2575-2576
Iron Reduction 2703, 2705
Lead-Removal 2703, 2705-2706, 2709
Link 3052, 3058
Membrane 662
Mesh Air 2955, 3052
Mini-Pleat Air 3054-3055
N95 1760-1763
Nipple 2603
Odor Removal 3050, 3055, 3059-3061
Oil 947, 2492, 2495, 2567-2568
Oil Vapor Removal 2575, 2590, 2592-2593, 2597, 2603
P100 1760-1763
P95 1761
Paint 1624, 3058
Paint Collector Grid 3058
Paint Sprayer 1626, 2575, 2589
Panel 2955, 3047-3052, 3058
Parts Washer 938
Pleated Air 3047-3050, 3054-3055, 3059-3060, 3093
Pneumatic Line 1626, 2575, 2589-2594, 2596-2598, 2600-2603
Pocket 3053
Polyester Air 3048, 3050-3053, 3058
Pond 2639
Pool 2641
Pressure Recorder 598
Pump Inlet 2632, 2694
R95 . . . . . 1760, 1762-1763
Refrigerant 3015
Regenerative Blower Inlet . . . 2575-2576, 2584
Respirator 1758, 1760-1764, 1766, 1771
Reverse Osmosis (RO) 2702, 2705
Rigid Cell Air 3054-3055, 3060
Ring Panel 3052, 3058
Sand 2641
Scale Inhibitor 2702-2706, 3004
Self-Cleaning 2706
Self-Gasketing 3053
Spa 2641
Spray Booth 1624, 3058
Spray Gun 1625-1626, 2575, 2589, 2603
Sprayer 1626, 2575, 2589
Swimming Pool 2641
Synthetic 3048, 3050, 3052-3055, 3057
Syringe 662
Taste and Odor 2703-2707, 2709, 3004
Trim-to-Fit 1624, 3057-3058
Turbidity 2703-2706, 3004
Under Sink 2702-2703, 2705-2706
Vacuum Cleaner 990, 1563, 1565-1566, 1568, 1570, 1572, 1576, 1581
Vacuum Pump 2575-2576, 2581
Water 635, 2639, 2694, 2702-2706, 2709, 2719, 3003-3004
Water System 2702-2707, 3004
Wet/Dry Vacuum 1563, 1565-1566, 1576
Whole House Water 2706

FIN COMBS 918, 3010

FINDERS,
Center 2334, 2336
Edge 2336
Stud 885

FINGER
Cots & Guards 302, 1673
Safety Tape 1673

FINISH
Applicators 1533
Removers 1521, 1523

FINISHES,
Automotive 906-907
Floor 1523, 1533

FINISHING
Machines 2361
Nailers 669, 679, 695, 2496, 2498, 2500
Nails 2111, 2497
Test Kits 2381
Washers 2096-2097

FINISHING TOOLS,
Caulk 887, 2219, 2234, 2236
Concrete Floor 892

FIRE
Barriers 1883-1884
Blankets 1835
Dampers 2942-2943, 2945, 3101
Deodorizers 1506
Door/Fire Lane Signs 1903, 1917, 1920, 1922, 1924
Door Holders 1976
Doors 1997-1998
Equipment Signs 1903, 1920, 1922, 1925
Escape Ladders 1880
Hoods 1709, 1815
Hydrant Markers 1912
Pumps 1001
Rakes 1820
Rescue Harnesses 1807
Retardant Tape 374
Retardant Treatment 1879
Shovels 997
Sprinkler Pumps 2698
Ventilation Poles 862, 1007, 1820

FIRE ALARM
Batteries 535, 2051, 3011
Bells 1886
Cables 323, 349
Covers 1979, 2053
Heat Detectors 1881, 2051
Horns 1885-1886, 2040, 2052
Smoke Detectors 1881-1882, 2051, 3029
Speakers 1885, 2052
Strobe Lights 1881, 2052, 3029
System Components . . . 1882, 2051-2052, 3029

FIRE EXTINGUISHERS & ACCESSORIES
. . . . . 965, 1877-1880, 1938

FIRE HOSE & ACCESSORIES
. . . . . 1817-1819, 2634, 2637

FIRE PROTECTION BUTTERFLY VALVES
. 2780

FIRE-RATED
Doors 1997-1998, 2002
Safes 1344, 1968

FIREARM ACCESSORIES 2041

FIREFIGHTER
Backpack Sprayers 1001
Boots 1816
Clothing 1815
Flashlights 528-530
Gear Lockers 1262
Gloves 1815-1816
Helmets 1815
Hoods 1815
Sprayers 1001
Thermal Cameras 609
Tools 862, 1007, 1820

FIRESTOP
Accessories 1883-1884
Caulk 1884, 2233
Foam 1884
Packing Materials 1883
Support Plates 3096
Tape 1883

FIRESTOPS 1883-1884

FIRST AID KITS,
Biohazard 1836-1837
Burn Care 1831-1835, 1837
Emergency Preparedness . . . 1832, 1835, 1837
Eye Care 1831, 1834-1835, 1837
Office/Facility 1831-1835, 1837
Trauma 1833-1835, 1837
Vehicle 1834

FIRST AID SUPPLIES
. . . . . 1820, 1831-1832, 1834, 1836, 1838

FISHING SYSTEMS & SUPPLIES
. . . . . 841, 847-849

FIT TEST KITS 1775

FITNESS EQUIPMENT 1477

FITTING ROOM BABY WALL SEATS . . . 1495

FITTINGS,
ABS Pipe 2724, 2808
Acetal Compression Tubing 2854
Acetal Push-to-Connect Tubing 2849-2850
Air Brake 962
Air Hose 962, 2519-2522, 2530-2531, 2586, 2612
Air Line 288, 2519-2522, 2530-2531, 2586
Air Tool Swivel 2519
Aluminum 314, 321, 1308, 1818, 2519, 2521, 2766-2767
Basin 2630
Black Malleable Iron Pipe . . . 2768-2770, 2773
Black Steel Pipe 2769-2777, 2779
Brass Cam and Groove 2766-2767
Brass Compression Tubing 962, 2764, 2853-2856, 2859-2860
Brass Flare Tubing 2853-2855, 2859, 3006, 3015, 3017, 3094
Brass Instrumentation Pipe 2795
Brass Instrumentation Tubing 2859-2860
Brass Pipe 1818, 2656, 2722-2724, 2748, 2790-2795, 2818, 2842, 2853-2855, 2911
Brass Push-to-Connect Tubing 962, 2556-2558, 2806-2807, 2850-2852
Brass Tubing 962, 2530, 2556-2558, 2586, 2764, 2805-2807, 2849-2856, 2859-2860, 3006, 3015, 3017, 3094
Bronze Pipe 2802
Bronze Tubing 2802
Bulkhead Tank 2817-2818
Cable Protection Tubing 407
Cable Tray 307, 318, 392
Cam and Groove 2765-2767
Cam Lock 2765-2767
Carbon Steel Compression Tubing 2804
Carbon Steel Instrumentation Tubing 2804
Carbon Steel Pipe 2778-2781, 2804, 2846
Cast Brass Pipe 2724, 2911
Cast Copper Pipe/Tubing 2798-2800
Cast-Iron Pipe 1308, 2725, 2846
Compression Electrical 315, 382
Compression Tubing . . . 962, 2764, 2854-2860
Conduit 308, 313-315, 317-324, 2828
Copper Pipe/Tubing 2801-2802, 2805, 2842, 2853, 3015
CPVC Pipe 2812, 2815-2818
Crossover 2801
D.O.T. 962

Drainage Pipe 2813
Duct 293, 3097-3099
Ductile-Iron Pipe 2779-2780, 2828
EMT 313, 315, 317
Feeder Cable 326
Fence 1011
Flare Tubing 2487-2488, 2853-2855, 2859, 3006, 3015, 3017, 3094
Flexible 319, 322-324, 449, 2821, 2845
Forged Carbon Steel Pipe 2780
Fuel Line 2671
Galvanized Malleable Iron Pipe 2768-2770, 2773, 2776
Galvanized Steel Pipe 2768-2772, 2775-2777, 2818, 2842
Garden Hose 1013, 1593, 2743, 2749
Gas 2717
Gas Vent Pipe 3096
Gate 1011
Grease 935
Grease Gun 934-935
Grounding 322
Hose 407, 962, 1818, 2482-2486, 2489, 2519-2522, 2530-2531, 2671, 2765-2767
Hose Barb 2519-2522, 2530, 2636, 2764, 2767, 2805, 2813, 2849, 2853-2854
Hose Clamp (See Hose Clamps)
Hydraulic 2481-2491, 2530, 2846, 2854
Hydraulic Hose Crimp 2482-2484
IMC 315
Instrumentation Pipe 2780, 2787, 2795
Instrumentation Tubing 2804, 2857-2860
Liquid-Tight Electrical 315, 322, 325-326
Metal Framing 316
Metric Tubing 2556-2558, 2852, 2858-2859
Nickel-Plated Brass Tubing 2556-2558, 2850-2852
Nylon Push-to-Connect 2556-2557
Nylon Threaded Tubing 2556-2557
PFA Compression Tubing 2856
Pipe (See Pipe Fittings)
Plastic Pipe 2617, 2680, 2722-2724, 2767, 2779, 2806, 2808-2818, 2821
Plastic-to-Metal Transition Pipe 2814
Plastic Tubing 407, 2554-2557, 2636, 2743, 2764, 2805, 2807, 2821, 2849-2850, 2855-2856
Pneumatic 2519-2522, 2531, 2554-2558, 2586, 2765-2767, 3040
Polyamide Pipe 2617
Polybutylene Push-to-Connect Tubing 2554-2555
Polyethylene Pipe 2813
Polyethylene Tubing 2807
Polypropylene Barbed Tubing 2636
Polypropylene Pipe 2722-2723, 2767, 2779, 2816-2818
Polypropylene Push-to-Connect Tubing 2557, 2850
Polysulfone Push-to-Connect Tubing 2807
Press 2801-2805
Pressure Sensing 571
Pump 2658-2659, 2671
Push-to-Connect . . . 322, 324, 962, 2519-2522, 2554-2558, 2806-2807, 2849-2852
PVC Pipe 2680, 2806, 2809-2814, 2816-2818, 2821
PVDF (Polyvinylidene Fluoride) Pipe 2817
Quick-Connect 934, 962, 2491, 2519-2522, 2531, 2558, 2806-2807, 2849-2852, 3006
Raceway 304-307
Railing 1308
Refrigeration 3006, 3010, 3015, 3017, 3094
Right Angle 322, 449, 2636, 2768, 2770, 2810, 2814-2815
Sanitary 2788, 2809-2810
Service Entrance Cable 305-308, 320
Slip-On Structural Pipe 1308
Socket Weld 2770, 2782-2783, 2786
Stainless Steel Barbed 2636
Stainless Steel Compression Tubing 2857-2859
Stainless Steel Flare Tubing 2487-2488, 2854
Stainless Steel Instrumentation Pipe 2787
Stainless Steel Instrumentation Tubing 2857-2859
Stainless Steel Pipe 2636, 2781-2787, 2818, 2828, 2846
Stainless Steel Threaded 2766-2767, 2782, 2784-2787, 2818, 2846, 2851, 2857-2858
Stainless Steel Tubing 962, 2487-2488, 2788, 2803, 2805, 2851, 2854, 2857-2859
Steam Hose 2531
Steel Compression Tubing 2804
Steel Instrumentation Pipe 2780
Steel Pipe 2617, 2768-2781, 2804, 2818, 2842, 2846
Steel Tubing 2803-2804
Strain Relief 322, 324-326
Structural Framing Wing 316
Structural Pipe 1308
Suction 2636
Swage 1088-1089
Swimming Pool Vacuum 1481
Thermocouple Compression 230
Tie-Down Track 1106
Transition Pipe 2812, 2814
Tubing (See Tubing Fittings)
Water Heater 2801-2802
Welded Steel Pipe 2771-2772
Wire Rope Cable 1088-1089, 1091
Wrot Copper Pipe/Tubing 2795-2798
Zerk 935
Zinc Pipe 2724

FLAG & FLAGPOLE SUPPLIES 1351, 1907-1908

FLAGS,
American/Armed Forces/State 1351
Post-it 1357
Safety/Warning 950, 1907

FLAME SENSORS 3010, 3034, 3036

FLAMMABLE LIQUID
Bench Cans 1875
Cabinets 1868-1872
Plunger Cans 1875

FLAMMABLE MATERIAL
Cabinets 1868-1873
Containers 1874-1876

FLANGE
Aligners 2425
Bearings 133-137, 140, 144, 1111
Bolts 2063
Brackets 2537-2538, 2540-2541
Clips 312, 317-318
Covers 2770
Gaskets 2659, 2779, 2818, 2839-2841
Nuts 2083, 2197, 2317
Sealants 905, 2222, 2226-2227, 2230, 2233, 2820, 2842
Spray Shields 2831
Wedges 861
Wheels 1218

FLANGES,
ABS Plastic 2808
Aluminum 312
Backing 2480, 2541
Ball Transfer Table 1112
Black Forged Steel Pipe 2770
Black Malleable Iron Pipe 2768, 2842
Brass Electrical Box 312
Brass Pipe 2790, 2842
Bronze 2658, 2799, 2802
Carbon Steel 2778, 2804
Cast-Iron Pipe 1308, 2659
Companion 2940-2941
Copper Pipe/Tubing . . . 2798-2799, 2802, 2842
CPVC Pipe 2815
Disposer 2732
Drain/Waste/Vent 2798, 2808-2809
Duct 2995, 2997, 3098
Ductile-Iron Pipe 2779
Enclosure Mounting 317-318
Fan 2940-2941
Floor 312
Frequency Drive 157
Galvanized Malleable Iron Pipe 2768
High-Box Pipe 2723
Hydraulic 2487
Isolation 2658
Level Switch 581
Louver 2939
Plastic Pipe 2767, 2779, 2808-2809, 2814-2817
Polycarbonate Floor 312
Polypropylene Pipe 2767, 2779, 2816
Pump 2658-2660
PVC Electrical Box 312
PVC Pipe 2757, 2809, 2814
PVDF (Polyvinylidene Fluoride) Pipe 2817
Railing 1308
Stainless Steel Pipe 2783, 2786
Stainless Steel Pump 2659
Stainless Steel Tubing 2803, 2858
Steel Pipe 2768
Urinal 2759

FLAP
Brushes 724
Discs 2377-2379, 2395
Wheel Adapters 2380-2381
Wheels 724, 2380-2382

FLARE
Holders 1905-1906
Nut Wrenches 758, 787-788, 790, 794-795, 859
Tubing Fittings 2487-2488, 2853-2855, 2859, 3006, 3015, 3017, 3094

FLARES 965, 1905-1906

FLARING TOOLS 868, 917, 3010

FLASH DRIVES/MEMORY CARDS 1354

FLASHBACK ARRESTORS 2435

FLASHING,
Roof 2724, 2963
Shingle 2963

FLASHLIGHT
Batteries 532-534
Bulbs 498-499, 502-503
Flashers 529

FLASHLIGHTS,
3-Volt 529
6-Volt 530
12-Volt 524, 672, 680, 693
123A 524, 527-528, 531
18-Volt 680, 689, 691
AA-Cell 523-531
AAA-Cell . . . 523-524, 526-529, 531, 680, 3009
AAAA-Cell 531
Belt-Clip 524, 527, 531
C-Cell 524, 526-527, 530
D-Cell 523-524, 526-527, 530
Firefighter 528-530
Flexible Neck 528-529, 531
Halogen 523
Hard Hat 528, 680, 1709
Helmet-Mount 527-528, 680
HVAC 2494, 3009
Incandescent 523-524, 526, 531
Key Chain/Ring 524, 529, 531
Krypton 524, 530
Leak Detector 531, 2427, 2494, 3009
LED 523-531, 672, 680, 689, 691, 693, 695, 2494, 3009
Lithium-Ion 524-531, 680, 689, 691, 693, 695, 3009
Magnetic 523, 525, 529, 531
Military 527
Penlight 526, 531, 680, 3009
Pocket 524, 526-527, 529, 531
Police 524, 527, 529
Rechargeable 524-531, 680, 2494, 3009
Safety-Approved 523-531, 680
Swivel-Head 680, 689
UV 523-524, 531, 2427, 2494, 3009
Water-Resistant 523-531, 680, 689
Waterproof 523-531, 680
Xenon 524, 526, 531

FLASKS 656, 663

FLAT
Face Idlers 120
File Cabinets 1345
Files 818-819, 1345, 2393
Roof Caps 2949, 3096
Roof Flashing 2963
Vises 2346

FLAT-HEAD SCREWS 2097, 2101-2102, 2104-2109, 2111-2112, 2119-2121, 2166

FLAT-PANEL MONITOR
Cables 2022
Mounts 1343, 2022-2023
Stands 2023

FLAT-PANEL MONITORS 2050

FLAT-PANEL TELEVISIONS 2021-2022

FLAT WASHERS,
Beveled 2093
Countersunk 2096
Fender 2088, 2092
Metric 2089-2092, 2096
Nonmetallic 2087, 2091, 2180, 2197
SAE 2087-2088, 2090-2091, 2093, 2317
Sealing 2091
Stainless Steel 2088-2090, 2092-2094, 2096, 2180, 2317
Standard 2087-2092, 2096, 2317
Steel 2087-2090, 2092-2093, 2096, 2180, 2317
Structural 2096
Through-Hardened 2090-2091

FLATS,
Aluminum 2184
Carbon Steel 2186

FLEX-HEAD WRENCHES 703, 768-769, 771-772, 787, 789-790

FLEXIBLE IMPELLER PUMP REPLACEMENT PARTS 2694

FLEXIBLE IMPELLER PUMPS 2630, 2672, 2694

FLINT
Lighters 2431
Renewals 2431

FLOAT
Adapters 2629
Air Vents 2901, 3037
Balls 2620, 2911
Brackets 892, 2629
Handles 892
Rods 291
Seals 2629
Switches 291, 2620, 2628-2629, 2640, 2678-2679, 2681, 3007, 3046, 3092
Valves 2477, 2639, 2909-2911

FLOATS,
Concrete 892
Grout 891
Pool 1481
Pool Buoy 1481
Pump 291, 2462, 2620, 2911
Sponge 891

FLOODLIGHT LAMPS 430, 486, 488, 492-496, 508

FLOODLIGHTS,
Fluorescent 521
Halogen 458, 460-462, 496, 521, 967
HID (High-Intensity Discharge) 452, 460, 495, 508, 521

Incandescent 461-462, 496
LED 430, 455, 457-462, 493, 518-521, 524-525, 531, 670, 680, 967-968
Portable 518-521, 524, 527, 670, 680, 967-968
Quartz Halogen 460, 462
Rechargeable 520-521, 524, 670, 680, 691
Vehicle 493, 967-968

FLOOR
Air Circulators 2915-2918, 2920-2921, 2923-2924
Blowers 2989
Brush Braces 1542
Brushes . . . 1532, 1536, 1542, 1544, 1546-1547
Buffers & Polishers 1578-1579
Burnishers 1578-1579
Chisels 822
Cleaners 1509, 1513, 1520-1524, 1533, 1536, 1542, 1578, 1581, 1604, 1845, 2446
Coating Activators 1602, 1604, 1634
Coating Nonslip Additives 1604
Coatings 1523, 1599, 1602-1604, 1634
Collars 312
Cranes 943, 1063-1064
Drain Grates 2723-2725
Drains 2724-2725
Drill Presses 2345
Drop-In Heaters 3071
Dryers 2989
Epoxy Paints 1602, 1604, 1634
Etching Solutions 1604
Fans 2915-2917, 2920-2921, 2923-2924
Finish Mops 1531-1534
Finishes 1523, 1533
Flanges 312
Furnaces 3088
Glides 1342
Grating 2195-2196
Grinders 719
Heaters 3071, 3088
Impregnators-Sealers 1533
Installation Tools 717, 891
Jacks 940-942
Jointers 688
Locks 1220
Marking Tape 1900-1903
Masking 1100
Mats 948, 991, 1099-1100, 1336, 1711, 1847, 1890-1899, 3069
Mount Isolators 1221-1222, 2983, 2986
Mounts, Framing 316
Nozzles, Vacuum Cleaner 1565, 1575
Pads 1583-1586, 1622
Paints 1602, 1604, 1634
Patching Materials 1631-1633, 2172
Plates 2194
Protectors 1099-1100, 1342, 1533, 1623
Ramp Mats 1893, 1897
Runners . . . 1099-1100, 1623, 1890-1896, 1898
Safes 1968
Scale Ramps 1426
Scales 1425-1426, 1477
Scraper Blades 891
Scrapers . . . 713, 861-862, 888, 891, 1457, 1551
Screws 696
Scrubber Solution Tanks 1579
Scrubbers 1544, 1549, 1578, 1581-1582
Sealants 1523, 1533, 1634
Sheeting 1100, 1412
Spray Buff 1533
Squeegees 1546-1547, 1550
Stands, Bin 1281, 1289-1290
Stands, Machine 2355-2356, 2359
Stops 2003-2004
Strippers 1521-1523
Sweeper Replacement Parts 1580
Sweepers 824, 990, 1580
Sweeping Compounds 1542, 1845
Underlayment 1100
Warming Kit Replacement Parts 3071
Wax Removers 1520-1521, 1523

FLOOR BOXES & ACCESSORIES
. . . . . 311-312, 320

FLOOR MACHINE
Brushes 1578-1579, 1581-1583
Clutch Plates 1583
Pad Drivers 1578-1579, 1581-1582, 1584
Pad Holders 1586
Pads 1583-1586
Replacement Parts 1579, 1581
Squeegees/Squeegee Blades 1581

FLOOR MACHINES
. . . . . 719, 1578-1579, 1581-1582

FLOTATION CLOTHING & EQUIPMENT
. 1808-1810

FLOW
Gauges 2429
Indicators 2464, 2670, 2680, 2682-2687, 2689, 2913
Rails 1111, 1281
Sight Glasses 2464, 2913
Sight Lubricators 2465
Switches 2684, 2686-2687, 3046

FLOW CONTROL
Air Valves 2548, 2550-2553, 2882
Regulators 574, 2429, 2547, 2550-2553, 2555
Valves 937, 2471, 2473, 2475-2477, 2548, 2550-2553, 2555, 2861, 2882, 2913

FLOW CONTROLS,
Hydraulic 2471, 2475-2477, 2913

FLOW DIVIDERS,
Hydraulic 2477

FLOWMETER
Adapters, Power Modules & Controls 2683, 2686
Cables 2683-2684
Repair Kits 2680, 2684
Sensors 2680, 2683
Transducers 2686
Transmitter Replacement Parts 2680
Transmitters 555, 2683, 2686

FLOWMETERS
. . . . . 555, 570, 2429, 2670, 2680, 2682-2687

FLUE
Brushes 3095
Gas Analyzers 617, 623
Stacks 3083

FLUID
Dispensing Containers 2461
Dispensing Valves 937
Exchangers 918, 946
Level Alarms 581, 2629
Level Gauges 581, 1140, 2464, 2495, 2912
Temperature Gauges 2464
Test Kits 2491

FLUIDS,
Brake 899, 901, 962
Correction 1359
Cutting 873, 2351, 2457-2461
Gauge 571
Grinding 2458-2460
Hydraulic 897-899, 2454-2456, 2468
Layout 2427
Machining 873, 2351, 2457-2461
Machining Coolant 2460
Metalworking 873, 2351, 2457-2461
Power Steering 899
Radiator 903-904, 962
Staining 2427
Synthetic Transmission 897-898
Tap and Die 2351, 2427, 2457-2460
Transmission 897-898
Windshield 902, 909

FLUORESCENT
Additives 897, 946, 2494, 3009, 3012
Hand Lamps 396, 522
Highlighters 1364
Lampholders 465
Leak Detectors 2427, 2494, 3009, 3012
Lighting Testers 625
Markers 1364, 1614
Paints 1606, 1608-1610
Starters 465

FLUORESCENT BALLASTS
. . . . . 423, 472-476, 478

FLUORESCENT FIXTURE
Hangers 317-318
Lenses 440

FLUORESCENT FIXTURES,
Battery Backup 451-452, 460
Ceiling 435, 437, 439, 441-442, 444-445, 448-452, 1624
Decorative 437
Hazardous Location 439, 449, 451-452, 460
High-Bay 439, 445, 448, 451-452
Low-Bay 444-445
Recessed/Troffer 435, 437, 439
Side-Mount 442
Strip 437, 439, 442, 444
Undercabinet 441
Vapor-Tight 439, 452
Wall-Bracket 441, 449-451

FLUORESCENT LAMP
Protective Sleeves 481
Recycling Kits 511-512
Retrofit Kits 432
Starters 465

FLUORESCENT LAMPS,
Appliance 482
Circline 485
Compact 485-489, 494, 520
Germicidal 486, 3059, 3061
High-Output 482-483
Instant-Start 482-483, 485-489, 520
PL Compact 485-486
Preheat-Start 482-483, 485-486
Rapid-Start 482-488
Shatter-Resistant 482-484, 487-488
Spiral 487-489, 520
U-Bend 484

FLUORESCENT LIGHTS,
Desk 515-516
Drop 522
Machine Tool 517
Magnifier 515
Portable/Task 396, 515-518, 520-522
Shatter-Resistant 483-484, 487-488, 522
Task 516-517, 521
Trouble 396, 522

FLUSH
Anchors 2166
Cutters 842
Trim Router Bits 731, 2297
Valves 2751-2753, 2756-2757, 2760-2761

FLUSH,
Air Conditioner 946, 3012-3013

FLUSHOMETERS & ACCESSORIES
. . . . . 2751-2753, 2760-2761

FLUX
Coated Brazing Rods 2422
Dispensers 232
Removers 232

FLUX,
Brazing 2432
Soldering 232, 239, 2432, 2618

FLY
Swatters 1022
Traps 1021-1022

FOAM
Adhesives 2216, 2218, 2225, 2229-2233, 2236
Air Filter Media 3057
Beverage Cups 1431
Brushes 1617
Cleaners 1502, 1504, 1511, 2236, 2446
Dispensers 1496-1498, 1884, 2238
Guns 1884, 2236, 2238
Knee Pads 1705, 1813
Packages 1402, 1411, 1413
Peanuts 1411
Plates 1436
Soaps 1496-1498, 1514, 2736
Tape 1390-1392, 1926, 1999, 3012, 3092
Tubing 2198

FOAM,
Adhesive 2216, 2236
Convoluted 1889
Cord 2198
Cube 2198
Electronics Packaging 1411, 2199-2200
Firestop 1884
Insulating 2236, 3012
Noise-Absorbing 1889
Polyether 2198
Polyethylene 1413, 2199-2200
Polypropylene 1413
Polyurethane 1884, 2198, 2236
Roll 1413, 2199-2200
Spray 2236, 3012
Thermal 2236
Tool Control 745
Tube 2198
Urethane 2200
VCI (Volatile Corrosion Inhibitor) 1414
Weatherization 2236

FOAMBOARDS 2198-2200, 2209

FOAMING TRIGGER SPRAYERS
. . . . . 1001, 1525, 2743

FOBS,
Keyless Access 1971, 1976

FOG LIGHTS,
Vehicle 968

FOGGERS 1022, 1506

FOIL TAPE 1387, 1883

FOIL,
Heat-Treating 2185

FOLDERS,
File & Hanging 1361

FOLDING
Chairs 1341
Gates 1134, 1313
Knives 808, 811-814
Ladders 1027-1028, 1030, 1039, 1048
Saws 886, 1006
Shovels 997
Steps 959, 1047
Stretchers 1822
Tables 1169, 1325, 1340, 2426
Tools 816, 1006

FOOD
Hoses 2611
Labels & Label Dispensers 1450
Mixers 893
Pans 1449, 1456
Prep Machine Replacement Parts 1461
Pumps 2665, 2667-2668, 2673-2675
Scales 644, 1428-1430
Strainers 1450
Thermometers 585-587, 603, 1455
Warmer Replacement Parts 1461

FOOD-GRADE
Adhesives 2233
Bearings 137, 140
Bin Lids 1301, 1450-1451
Bins 1280, 1287-1288, 1301, 1451
Brushes 1454, 1459, 1544-1545, 1547
Degreasers 2446
Drums 1138-1139

Flexible Conduit 321
Hoes 1456-1457
Hoses 2609, 2611
Lubricants 901, 2438-2442, 2444-2445, 2450, 2452, 2454-2459, 2568, 2779
Plastic 2210-2214
Rakes 1457
Rubber 2202-2203
Tubing 378, 1408, 2213, 2611, 2613-2618
Tubs 1292

FOOD PROCESSOR REPLACEMENT PARTS
. 1461

FOOD SERVICE
Aluminum Foil 1449
Appliances 1439, 1442, 1459, 1462-1465
Bags 1407-1410, 1443, 1458
Bowls 1436, 1445, 1456, 1458
Carts 1148-1149, 1155-1156, 1445-1446, 1448
Casters 1195, 1197-1199, 1201-1207, 1209-1210, 1212-1213
Cleaners/Degreasers 1508-1509, 1514, 1520, 1522, 2446-2447
Concessions Equipment 1458
Condiment Centers 1434, 1443
Container Lids 1292, 1431, 1450-1451, 1456-1457
Containers 1286, 1292-1293, 1295, 1436, 1443, 1447, 1450-1451, 1456
Dishwasher Racks 1447
Display Cases 1458
Dollies 1292
Drain Boxes/Trays 1450
Equipment Stands 1448, 1458
Faucets 2703, 2732, 2739-2742
Flatware Racks 1447
Floor Grating 2195
Gas Connectors 2717
Glass Racks 1447
Gloves 1669-1671, 1674-1676, 1678-1680, 1683
Hose Reels 2525, 2529, 2743-2744, 2747-2749
Hoses 2606
Hot Entrée Systems 1445
Mats 1895
Mixes 1458
Napkins 1434
Pallets 1135, 1457
Pan Lids 1449
Pans 1449, 1456
Paper Towel Holders 1444
Plate Racks 1447
Plates 1436
Platters 1456
Polybag Tubing 1408
Quick Disconnects 2717
Rack Covers 1448
Racks 1248, 1447-1448, 1451
Sanitizers 1510, 1514, 1520, 1522
Scoops 862, 1451, 1454, 1456-1457
Scraper Blades 1548
Scrapers 1452-1454, 1457, 1459, 1548
Shovels 1456-1457
Sinks 2727-2728, 2730
Steam Table Pans 1449
Tables 1323, 1325, 1462, 2730
Tilt Trucks 1159, 1456
Trash Containers 1159-1160, 1555, 1558
Trays 1436, 1443, 1445, 1456
Utensils . . . 1435, 1452-1454, 1457, 1459, 1548
Water Filter Systems 2702, 2704-2705, 2707, 3004
Wipes 1490-1491, 1514

FOOSBALL TABLE EQUIPMENT 1479

FOOT
Candle Meters 625
Guards 1746, 1757
Pedal Valves 1593, 2546, 2548, 2727, 2743-2744
Pedals 2402, 2419
Pumps 946, 955, 2466, 2672
Supports 1756
Supports, Jack 942, 944, 960
Switch Guards 263
Switches 263, 873
Valves 2546, 2548, 2656

FOOT PLATES,
Gearmotor 72, 74, 85, 93

FOOTBALL EQUIPMENT 1478

FOOTRESTS 1320-1321, 1335

FOOTRINGS,
Task Chair 1334

FOOTWEAR (SEE BOOTS, SHOES AND SOCKS)

FORCE
Gauge Accessories 568
Gauges 568

FORCEPS 1830-1831

FORK BLADE PROTECTORS 1177

FORK TERMINALS 288, 383-384

FORK TRUCK
Attachments 990, 1144-1146, 1176-1177
Booms 1176, 1180, 1183
Dockboards 1127
Drum Handlers & Lifters 1144-1146
Work Platforms 1176

FORKLIFT
Booms 1176, 1180, 1183
Cages 1176
Casters 1180
Covers, Extensions & Racks 1177
Jacks 942
Lights 969, 972-973, 1175, 1888
Load Platforms 1180, 1183
Mirrors 1175, 1913
Replacement Parts 1175
Safety Books/DVDs/Videos 1943

FORKLIFTS
. . . . . 1065, 1173-1175, 1178-1181, 1183

FORKS,
Bucket 1177
Food Processing 1456-1457
Forklift 1175
Garden/Pitch 999
Plastic Food Service 1435
Spading 999, 1456-1457

FORM HOLDERS 1382

FORMS,
Accident Report 963
Business 963

FOUNDATION
Sealants 2230, 2233
Ventilators 2948

FOUNTAIN
Flow Control Valves 2719
Pump Light Kits 2640
Pumps 2638-2640, 2691
Sinks 2731

FOUNTAINS,
Drinking 2718-2720, 2731
Eyewash 1840-1844, 2741
Wash 2726-2727
Water 2718-2720, 2731

FRAMES,
Air Conditioner Window-Mount 2990
Air Filter 3056-3058
Bed 1470
Door 1997
Dust Mop 1532, 1534-1537
Electrical Enclosure 300
Eyewear 1655
Fan 2930
Filter 3056-3057
Floor Box Cover 312
Furnace Filter 3056-3057
Hard Hat Visor 1639
Heater 3073-3074, 3076, 3081
Mop 1532-1537
Pad 3056-3057
Paint/Coating Roller 907, 1618-1620
Paint Collector 3058
Pallet Rack 1226-1228
Picture 1358
Poster 1372
Spray Booth Filter 3058
Venturi Fan 2930
Voice/Data Outlet 356
Wall Heater 3073-3074
Tip Out Bin 1289

FRAMING
Anchors 1119
Base Plates 316, 1119
Brackets 316, 1119, 2019
Casters 1119
Channel Covers 316
Clamps 316-317, 834
End Caps 316, 1119
Fasteners 316, 1119, 2498-2499
Fittings 316
Floor Mounts, Structural 316
Hammers 826
Hinges 1119
Joining Plates 316, 1119
Leveling Feet 1119
Nailers 669, 679, 695, 2496, 2498-2500
Nails 2111, 2498-2499
Nuts 316, 1119
Pipe Clamps 316-317
Saws 724, 731-732
Screws 316, 1119
Squares 884
Staplers 669, 890, 2501
T-Slot Covers 1119
Wing Fittings 316

FRAMING,
Aluminum Extrusion 1118
Ceiling Tile Suspension 2763
Metal Channel 316
Structural 1118

FREEZE SPRAY 232, 874

FREEZER
Door Strip Rolls 1120-1121
Doors, Plastic 1120-1121
Jackets 1718
Labels, Laboratory 1931
Pops 1825
Replacement Parts 1461, 3019
Thermometers 586, 588, 1455

FREEZERS 637, 1462-1464

FREQUENCY
Counters 559
Meters 96, 536-544, 551, 556, 558-559
Panel Meters 559

FREQUENCY DRIVES & ACCESSORIES
. 153-157

FRESHENERS,
Air 909, 1505-1507, 1521, 1524

FROCKS 1738

FRP (FIBER-REINFORCED POLYMER)
. 2194

FRYER REPLACEMENT PARTS 1461

FUEL
Antifreeze 900
Caddies 1874
Cell Blowers 38
Cells, Nailer 2496, 2498
Conditioners 896-897, 900
Filter Canisters 2671
Filter Elements, Automotive 947, 2671
Filters, Engine 947, 2671, 2710
Filters, Pump 2671, 2710
Flowmeters 2670
Gauges 581
Hose Clamps 2532-2533, 2535
Hoses 947, 2435, 2607, 2671, 3084
Injection Cleaners 896, 900
Line Fittings 2671
Lines 947
Nozzles 2671, 3083, 3086
Preservatives 896, 900
System Cleaners 896-897, 900
System Tools 917
Treatments 896-897, 900
Valves 2879
Water Removers 900, 947

FUEL PUMP SHUTDOWN PUSH BUTTONS
. 1978

FUEL PUMPS
. . . . . 936, 2665, 2669-2670, 2672, 2677, 2691

FUEL,
Butane 234
Small Engine 900

FUME
Barriers 1099, 2677
Exhauster Hoses 233, 2363, 2610-2612
Exhausters 2408, 3060

FUME EXTRACTOR ACCESSORIES & PARTS
. . . . . 233, 2408

FUME EXTRACTORS . . . 233, 636, 2408, 3060

FUME HOOD
Cabinets & Work Surfaces 636
Intakes 2408

FUME HOODS 636

FUNGICIDES 1503, 1510-1512

FUNNEL
Covers 930, 1861
Holders 1861
Vacuum Manifolds 661

FUNNELS,
Can 1874
Drum 930, 1140, 1861
Flex Spout 930
Laboratory 656
Offset 930
Transmission Fluid 930
Utility 930, 1140, 1525, 1860-1861

FURNACE
Air Cleaners 3049, 3059-3060, 3093
Air Filters 3047-3051, 3053-3056, 3093, 3102
Blower Motors 8-10, 12-13, 44, 47-51, 53, 56, 59, 62-64
Blowers 2972-2977, 2979, 3103-3104
Connectors 2717
Control Circuit Boards 3033
Controls, Integrated 3033
Drain Pans 3092
Filter Frames 3056-3057
Filters 3047-3056
Gas Valves 3032-3034
Humidifiers 3092
Mounting Blocks 3094
Pilot Ignition Systems 3033-3034
Testers 572, 617, 619
Vent Dampers 2938
Vent Pipe 3096
Vent Tees 3096
Vents 3096

FURNACES,
Floor 3088
Gas 3085, 3088, 3091

Laboratory 638
Through-the-Wall/Vented 3085, 3088
Wall 3085

FURNITURE
Casters. 1195-1196, 1200, 1202-1204, 1206, 1209-1213
Covers 1410
Dollies 1168, 1191-1193, 1275, 1341
Glides. 1335, 1342
Leg Caps 1342
Leg Tips 1342
Moving Bags 1410
Pads. 1410
Polishes 1518
Protectors 1342
Sliders 1342
Vises 832

FURNITURE,
Breakroom. 1444
Computer. 1338-1339
Outdoor 1309, 1482-1483
Shop 1326-1327

FUSE
Assortments & Service Kits. 185, 949
Blocks 182, 186, 394, 929
Clips. 160, 175-176
Covers 185, 187
Disconnects. 186
Holders 163, 182, 185-187, 394, 929
Links 182
Pullers & Testers 187
Reducers 185, 187
Switches 191

FUSES,
Air 2603
Automotive. 200, 949, 965
Ceramic 181, 184-185
Circuit Breaker. 200, 394, 965
Class CC. 180, 185-186
Class G. 181
Class H. 181-182
Class J. 180, 185-186, 949
Class K5. 182
Class L. 181
Class RK1. . . . . 177, 185
Class RK5. . . . . 178, 185
Class T. 179
Control. 177-181, 183-185
Current-Limiting 177-181, 183-184, 394
Current Probe 548
Edison Base. 185
Electronic 177-179, 181, 183-185, 949, 965
Fast-Acting 177-185, 949, 965
Glass 178, 181, 183-185, 965
High-Speed 179-181
Illuminating 949, 965
Indicator. 177-185, 949, 965
Low-Peak. 177-178, 180-181, 185
Midget 178-180, 183, 185-186
Motor. 177-180, 182-185, 949
One-Time. 177-178, 180, 182
Panelboard. 177-180, 183-185
Plug 185
R-Rated 182
Rejection 177-181, 183, 185
Renewable. 181
Semiconductor 181
Small Dimension 179, 182-185, 949, 965
Specialty 180, 183, 965
Stud-Mount 181-182, 965
Switchboard 177-180
Time Delay. 177-185, 949, 965
Transformer. 177-185
Type S Base. 185

G

G-CLIPS 1900

GAFFER'S TAPE. 1386

GAGE
AC Adapters. 568
Adapters 568, 570, 2468-2469, 2471
Battery Packs 2330
Blocks 2338-2339
Cock Valves 2913
Fluids. 571
Guards 2913
Oils. 571
Siphons 574
Tool Sets 2336, 2338-2339

GAGES,
(See Also Gauges)
Bolt 2054
Bore 2336
Center/Center Finder 2334, 2336
Depth. 884, 954, 2325, 2329, 2335, 2338
Dial Thickness 2337-2338
Digital Thickness 2337
Drill/Drill Point 2338
Edge Finder 2336
Feeler. 917, 2180, 2337
Height 2330
Hole 2336
Linear. 2335
Pin 2338-2339
Pitch. 2338, 3010
Radius 2338
Screw 2054
Screw Pitch 2338
Sheet Metal 2338
Surface Roughness 2341
Tap & Drill 2338
Taper 2338
Telescoping 2336
Thickness 569, 2180, 2337-2338
Thread 2054, 2262, 2265, 2338-2339
Wire/Cable 347, 2054, 2338

GAITERS. 1642

GALLON PUMPS 2676-2677

GALVANIZING COMPOUNDS
. . . . . 1603, 1606, 1608, 2428, 2445

GAME TABLES/BOARDS. 1479

GANG BOXES. 304-310, 748-749

GANTRY CRANES 1062

GARAGE
Cabinets. 1276
Heaters 3070, 3073-3074, 3077, 3083-3085, 3087-3088
Jacks. 940-943
Storage Walls. 1276, 1332

GARAGE DOORS & ACCESSORIES
. 1123-1125

GARBAGE
Bags. 950, 1000, 1559-1562
Disposals, Parts & Accessories 2732
Grabbers 1551
Receptacles. 950, 1485, 1552-1558

GARBAGE CANS 1485, 1552-1558

GARDEN
Fertilizers. 1003
Hardware Cloth 1010
Hex Netting 1010
Hooks. 999, 1007
Hose Fittings 1013, 1593, 2743, 2749
Hose Valves 1013, 2911-2912
Hose Washers 1013
Hoses. 1015-1016
Sprayers 994, 1000-1002
Tool Sharpeners. 1006
Tools 862, 997-999, 1008
Watering Wands. 1014, 1016

GARMENT RACKS. 1171

GAS
Adapter Kits. 3032
Analyzers. 543, 617-619, 623
Blenders 2432
Boilers 3089
Burner Controls 3032-3034, 3036
Burner Ignitors. 3032-3034, 3036
Can Spouts 1874
Cans. 1874-1875
Combustion Testers 623
Connectors. 2420, 2717
Detection Control Panels 624
Detection Systems. 622, 624, 1777, 1780-1781
Diffusers 2414
Fittings. 2717
Grills 1459
Heater Nozzles. 3086
Hoses. 2420, 2435, 2607, 2842-2844, 3084
Lamp Testers 625
Leak Detectors. 621-622, 2494, 2820, 3008-3010, 3012
Line Tape 2820
Mask Canisters 1762, 1768
Mask Pouches 1774
Mask Respirators. 1762, 1768
Pilot Safety Valves 3032
Pressure Regulators 2428-2429, 2433, 3083-3084
Pressure Testers 571-572, 576, 578, 3010
Shut-Off Wrenches 2751
Sniffers 617, 622, 624, 1776-1781, 3010
Springs 2015
Valves 2879, 3032
Vent Pipe 2715, 3085, 3096
Vent Pipe Fittings. 3096
Vent Pipe Thimbles 3087
Welding Outfits . . . 2430-2431, 2433, 2436-2437

GAS COCK VALVES,
Bronze Pipe 2914

GAS CYLINDER
Cabinets. 1873
Lockouts 1947
Racks. 1239, 2437
Recycling Supplies 1780
Regulators 1778, 1780, 1782

GAS CYLINDERS 2430-2431, 2436-2437

GAS DETECTOR
Accessories 1776, 1778-1781
Adapters 1779-1780
Aspirator Bulbs 619
Batteries 1777-1780
Battery Chargers 1777, 1779-1781
Boots/Bands 1779
Calibration Gas 1777-1778, 1780, 1782
Calibration Kits 1776-1778, 1780-1781
Cases/Holsters/Pouches 1779, 1781
Chargers 1777, 1779-1781
Clips/Straps/Screws 1779
Computer Links 1777-1780
Controllers 624
Data Loggers 618, 1777-1779
Docking Stations 1776-1778, 1781
Filters. 1781, 3008
Kits. 1777, 1780, 1782
Probes 1779
Pumps 1777, 1779-1782
Replacement Parts 1781
Sensors 1776-1780
Software 1779
Test Kits. 1776-1778, 1780-1781
Tubes 1779, 1782

GAS DETECTORS,
Ammonia (NH_3) 622, 624, 1776, 1779, 1781, 3010
Atmospheric Monitor 622, 624, 1777, 1780
Benzene. 622
Carbon Dioxide (CO_2) 1776-1777
Carbon Monoxide (CO) 617, 624, 1776-1781, 1881
Chlorine (Cl) 1779
Chlorine Dioxide (ClO_2). 1779
Combustible. 622, 1777, 1779-1781, 3010
Confined Space 1777-1780
Ethylene Oxide (C_2H_4O) 622
Hydrogen (H) 622, 624
Hydrogen Cyanide (HCN) 1776, 1781
Hydrogen Sulfide (H_2S). . . 622, 624, 1776-1781
Isopropanol/Ethanol. 622
LEL (Lower Explosive Limit) 1776-1777, 1779-1781
Methane (CH_4) 622, 624, 1781, 3010
Multi-Gas 622, 624, 1776-1777, 1779-1781, 3010
Nitrogen Dioxide (NO_2). 624, 1778-1779
Organic Vapor 1776
Oxygen (O) 624, 628, 1776-1781
PID (Photoionization Detector). 1780
Propane (C_3H_8). 622, 624, 3010
Single-Gas 617, 624, 1778-1781
Sulfur Dioxide (SO_2) 622, 1776-1781
Toluene 622
Xylene 622

GAS FURNACES. 3085, 3091

GAS HEATERS 3082-3089, 3091

GAS,
Calibration 1777-1778, 1780, 1782
Fuel, Purging & Welding. 2437

GASKET
Adhesives 905, 2226-2228, 2230, 2233, 2820
Cleaners. 2216
Material 905, 2198, 2201-2205, 2226-2227, 2230, 2233, 2820, 2840
Punches. 821
Removers. 2216, 2227
Scrapers 823, 888
Sealants. 903, 905, 2222, 2226-2227, 2230-2233, 2820, 2842, 2963

GASKETS,
Air Filter. 3055
Basin 2723
Cam Lever 2767
Circulator Pump. 2658-2659
Conduit 314, 322
Counter 228
Disposer. 2732
Drum 1139
Electrical Box. 309
Flange 2659, 2779, 2818, 2839-2841
Hose. 1013, 2767
Hour Meter. 228
Lavatory. 2723
Liquid-Tight 322
Locking 2206
Pipe 2723, 2779, 2818, 2839-2841, 2853
Sanitary 2789, 2801
Toilet 2756-2757
Tubing 2789, 2801, 2853
Vacuum Cleaner. 1565
Window 2206

GASOLINE
Blowers 988, 1784-1785
Cans. 1874-1875
Engines 985
Fuel Additives 896-897, 900
Hoses. 2607
Line Trimmers 987
Pumps 936, 2665, 2669-2670, 2672-2673, 2677, 2691

GATE
Access Controls 1969, 2034
Arms 1969
Casters. 1213
Fittings. 1011
Hardware 1011, 1969, 1975, 2009, 2016
Latches 2016
Operators & Accessories 1969
Valve Lockouts. 1946-1949
Valves 1140, 2887-2889

GATES,
Dock 1128, 1134
Fence 1011
Folding 1134, 1313
Portable 1134
PVC Drain 2810
Retractable Steel 1134
Safety 1128, 1313
Security 1134, 1230, 1969
Sliding 1134, 1969
Swinging 1035, 1312-1313, 1789
Vehicle 1128, 1969

GATORADE 1825

GAUGE
AC Adapters 568
Adapters 568, 570, 2468-2469, 2471
Battery Packs 2330
Blocks 2338-2339
Cock Valves 2913
Fluids 571
Guards 581, 2913
Liquid Level Alarms 581
Oils 571
Replacement Parts 581, 3009
Siphons 574

GAUGES,
Air Conditioner 946, 2994, 3005, 3009
Air Velocity 570, 2591
Altitude 576, 2806
Ammonia 577
Band Saw Tension 2351
Barrel Level 581, 1140
Boiler 577
Bolt 2054
Bore 884, 2336
Center/Center Finder 2334, 2336
Compound 570, 573-579
Contour 884
Copycat 884
Depth 581, 954, 2325, 2329
Diaphragm-Type 576
Differential Pressure 570, 572, 2591
Digital Force 568
Drill/Drill Point 2338
Drum Level 581, 1140
Dry 574-579, 2471
Edge Finder 2336
Expansion Tank 2912
Feeler 917, 2180, 2337
Fillet Weld 2424
Flow 2429
Fluid Level 581, 1140, 2464, 2495, 2912
Fluid Temperature 2464
Force 568
Fuel 581
Glycerin-Filled 574-577, 579, 2471
Height 2330
HVAC . . . . . .570, 574, 579, 946, ... 2591, 2994, 3005, 3009
Hydraulic 579, 2468-2469, 2471, 2495
Leak 576, 588
Level and Temperature 2495
Linear 2335
Liquid-Filled 574-577, 579, 2471
Liquid-Level 581, 1140
Low-Pressure 576, 578
Manifold 946, 2994, 3005
Micron 3009
Oil Level 581, 2464
Oil Pressure 579
Panel-Mount 570, 578
Pin/Plug 2338-2339
Pitch 2338, 3010
Plumbing System Test 579, 2822
Pressure . . . . . 570-571, 573-580, 588, ...685, 918, 955, 962, 2471, 2518, ... 2591, 2602, 2806, 2822, 3010
Process 573, 575-577, 579
Push-Pull 568
Radius 2338
Rain 583
Refrigeration . . . . . .577, 579, 946, ... 2994, 3005, 3009
Regulator 579
Sanitary 576
Saw Tension 2351
Screw 2054
Screw Pitch 2338
Spark Plug Gap 917
Sprinkler 577
Stainless Steel 573-576, 578-579
Stair 884
Superheat/Subcooling 3009
Switch 570
Tank 581, 1140
Tap and Drill 2338
Taper 2338
Telescoping 2336
Temperature 577, 588-589, 593, 2806
Tension 96, 105, 568, 919, 2351
Test 573, 575-579, 588, 2471, 2602, 2822
Thickness 569, 2180, 2337-2338
Thread 2054, 2262, 2265, 2338-2339
Tire 954-956, 962, 2518
Transmitter 573
V-Belt Groove 105
Vacuum 570, 573-580, 2591, 3005, 3009
Welding 2424
Wire/Cable 347, 2338
Wireless 3005
Wood Moisture 543, 600

GAUNTLETS,
Abrasive Blast Cabinet 2402

GAUZE 1830-1835, 1837

GEAR
Bags . . .756-757, 1478, 1709, 1711, 1774, 1820
Grease 901, 2450-2451, 2453
Lockers 1262
Lubricants . . . . . 897-898, 1594, 2438-2441, ...2444-2445, 2454-2455, 2457
Oil Pumps 936, 2672, 2676-2677
Oils . . . 897-898, 1594, 2438-2440, 2444-2445, ... 2454-2455, 2457
Pullers 912-916, 2469
Pump Heads 2695-2697
Pumps 2474-2475, 2695-2697

GEARBELT
Pulley Idlers 120
Pulleys 114
Sprockets 114

GEARBELTS,
Synchronous 106-107

GEARMOTOR
Brackets 72, 74, 85
Brakes 95
Covers 85
Foot Plates 72, 74, 85, 93
Replacement Parts 80-84
Speed Controls 85, 159

GEARMOTORS,
3-Phase 74-77, 79-80
AC 68-80
AC/DC 80
Air-Powered 2577
Brake 68-71
Capacitor-Start 79
DC 81-86
Inverter-Duty 76-77, 80
Parallel Shaft 68-77, 81-85
Permanent Magnet 81-86
Pneumatic 2577
PSC 71-74, 78
Right Angle 77-80, 85-86
Shaded Pole 68-71, 75
Split-Phase 74-76
Universal 80

GELS,
Burn Care 1829, 1832-1833

GENERATOR
Controls 262
Cords 399-400, 412-413
Lubricants 896

GENERATOR/WELDERS 2421, 2560

GENERATORS/COMPRESSORS . . .2560, 2562

GENERATORS,
Automatic Standby 984
Diesel-Powered 981-982, 984, 2562
Engine-Driven 981-984, 2421, 2560, 2562
Gasoline-Powered 981-983, 2560, 2562
Inverter 983
Natural/LP Gas 984
Portable 981-983, 2560, 2562
Pressure and Vacuum 3046
Pulse 159
Signal 565
Stationary 984, 2560
Tone 362-366, 1885

GERMICIDAL
Cleaners/Disinfectants . . . . . .1503-1504, . . .1509-1514, 1517, 1520-1523, 2446, 3011
Lamps 486, 3059, 3061
Wipes 1510, 1512, 1514

GFCI
Circuit Breakers 188, 191-192, 200, 413
Cord Protectors 402
Faceplates 310, 328
Hardwired Protectors 402
Line Cords 402
Outlets 402, 412-413
Plugs 402
Portable Protectors 402
Receptacles 330, 333, 412-413
Testers 545, 547
Wall Plates 328

GHS/SDS CENTERS/BOARDS 1942

GLADHANDS LOCKS & SEALS 962

GLANDS,
Cable 268
Limit Switch 268

GLASS
Adhesives . . . . . .905, 1361, 2216-2218, ... 2225, 2228, 2230-2233
Beads 2404
Cleaners . . . . . .642, 902, 909, 1502, 1510, ... 1513, 1518, 1520-1522, 2446
Drill Bits 709, 2169
Filler Kits 2719
Fillers 2741
Foam Kits 1659
Microfiber Laboratory Filters 662
Racks 1447

GLASS,
In-Plant Office 1311-1312

GLASSES,
Laser 881
Reading 1662-1664, 1667
Safety 1650-1664, 1667, 1707
Sight 1140, 2464, 2495, 2912-2913, 3013

GLASSWARE WASHERS 641

GLIDES,
Floor Protector 1342
Stool 1335

GLOBAL POSITIONING SYSTEM (GPS)
Clock Signal Receivers 1375
Navigational Systems 949

GLOBE VALVES 2882, 2889, 3043

GLOVE
Bags/Cases 1710
Boxes 635
Clips 859-860, 1701
Covers 1715
Dispensers 1673
Dryers 1757
Holders 859-860, 1701
Inflators 1710
Liners 1697
Protectors 1710, 1715
Warmers 1642

GLOVES,
Abrasion-Resistant . . . 1669-1672, 1674-1685, ... 1687-1692, 1698, 1701-1703, ... 1715, 1815-1816, 2402
Abrasive Blast Cabinet 2402
Aluminized 1715
Antistatic 1670-1672
Assembly . . . 1669-1670, 1672-1674, 1677-1678, . . . 1680-1682, 1684-1685, 1688-1693, 1695
Blast Cabinet 2402
Canvas 1683, 1697
Chemical-Resistant . . . 1669-1672, 1674-1677, ... 1687-1688, 1691, 1831
Cleanroom 1671-1673
Clute Cut . . . . . 1678-1684, 1687, 1696-1697, ... 1700, 1702-1704, 1807, 1813
Coated . . . . . 1673, 1675-1685, ... 1687-1692, 1698, 1703
Cold-Resistant . . . . . 1677, 1680-1681, ... 1687, 1689, 1700-1701
Controlled Environment 1698
Cotton 1673, 1683, 1698, 1703
Cotton Flannel 1697
Cowhide . . . . . 1683, 1694, 1699-1701, 1704, ... 1815-1816, 2405
Cryogenic 1687
Cut-Resistant . . . . 1674-1678, 1680, 1683-1685, . . .1687-1692, 1694, 1700, 1702, 1709, 1813
Deerskin 1694, 1699, 1704
Disposable 1669-1672, 1698, 1831
Dotted 1678-1679, 1684, 1687, 1696-1698
Driver 1683, 1699-1700, 1709
Dry Blast Cabinet 2402
Electrical-Protective 1678, 1685, 1709-1710
Elkskin 1699, 1704, 1815
Exam 1669-1671, 1675, 1831
Extrication 1680, 1684, 1815-1816
Fingerless/Half-Finger 1697-1698, 1701
Firefighting 1815-1816
Food Service . . . . . 1669-1671, 1674-1676, ... 1678-1680, 1683
Gauntlet . . . . . 1674-1677, 1679, 1684, 1687, . . . 1695-1696, 1700-1704, 1815-1816, 2405
General Maintenance . . . . . 1669-1670, 1674, ... 1676-1677, 1680-1681, 1683-1685, . . .1688, 1690-1692, 1695, 1698, 1700-1701
General Purpose . . . . . 1669, 1673, 1675-1679, ... 1681-1682, 1684-1685, ... 1687-1695, 1697-1703
Goatskin . . . . . 1683, 1685, 1693-1694, ... 1699-1701, 1704, 1709, 1807, 2405
Gunn Cut . . . . . 1678, 1681-1683, 1685, ... 1687, 1696, 1699-1704, 1815
Heat Mitt 1702-1703
Heat-Resistant . . . . . .1676, 1678, 1683, ... 1685, 1700-1701, 1703-1704, ... 1709, 1715, 1815-1816, 2405
Heated 685
Heavy-Duty . . . . . 1675-1679, 1681-1683, . . .1687, 1692, 1698, 1701-1703, 1709, 1715
High-Visibility . . . . . 1671, 1681-1682, ...1684-1685, 1687, 1690, ...1693-1696, 1700-1701, 1816
High-Voltage 1710
Hot-Mill 1702-1703
Impact-Absorbing . . . . . .1680-1681, ... 1684-1685, 1693-1696
Inspector's 1669-1671, 1697
Insulated . . . . . .1676, 1683, 1687, ... 1700-1703, 1710
Jersey 1692, 1697
Kevlar . . . . . 1677-1678, 1680-1685, 1694, ... 1696, 1702-1703, 1715, 1813, 1816
Kidskin 1704
Knit Wrist . . . . . 1677-1685, 1687-1698, ... 1700-1701, 1703, 1815
Laboratory 1669-1672, 1674, 1831
Latex 1669-1672, 1674, 1676, 1690
Latex-Coated . . . . . 1674, 1680-1681, ... 1683-1684, 1690
Latex-Free 1669-1672, 1675, 1677, 1831
Law Enforcement 1813-1814
Leather . . . . . .1678, 1683, 1685, 1694, ...1699-1702, 1704, 1709, ... 1807, 1813-1816, 2405

Leather Palm . . . 1678, 1683-1684, 1693-1695, . . .1699-1701, 1715, 1807, 1813, 1815-1816
Light-Duty . . . . . .1669-1671, 1678, 1688, ... 1691-1692, 1698
Lined . . . . . 1669, 1674-1685, 1687-1693, ... 1700-1704, 1816
Lineman's 1709-1710
Lint-Free 1698
Mechanic's . . . . . .1674, 1680, 1683-1685, ... 1690, 1692-1696, 1701-1702, ... 1815-1816, 2405
Medical-Grade 1670-1671, 1831
Military. 1813-1814
Neoprene . . . . . 1671-1672, 1674-1676, 1678, ... 1684-1685, 1693-1696
Nitrile. . . . . 1669-1673, 1675, 1682, 1687, ... 1691, 1696, 1703, 1831
Nitrile-Coated . . . . . .1677, 1680-1685, ... 1691-1692, 1698, 1702
Nylon 1673, 1683-1684, 1688, 1698
Oil-Grip . . . . . .1675, 1678, 1681-1685, ... 1688, 1691, 1694, 1696
Oil-Resistant . . . . . 1669-1671, 1674-1677, ...1680-1685, 1687-1693, 1702
Painting 1669-1671
Pigskin. 1699-1701, 1704, 1815
Polyester 1698
Polyethylene 1670, 1680-1681
Polyurethane-Coated. . . . . .1673, 1680-1682, ... 1684, 1688-1689, 1691, 1698, 1816
Puncture-Resistant . . . 1669-1672, 1674-1685, ... 1687-1692, 1702
PVC 1669-1670, 1677, 1687
PVC-Coated . . . . . .1677-1679, 1687, ... 1689-1690, 1698
Reflective. . . . . .1681, 1684-1685, ... 1695-1696, 1700-1701
Rescue. 1807, 1815
Reversible 1679, 1697-1698, 1702-1703
Rubber. 1672, 1674, 1683, 1710
Rubber-Coated. 1680, 1683-1684
Safety Cuff. . . . . .1683, 1687, 1692, ... 1700-1704, 1709
Safety Orange 1671
Slip-Resistant . . . . . .1674-1678, ... 1681-1683, 1698, 1816
Stainless Steel Mesh 1679, 1684
Sterile 1671-1672
String-Knit 1678, 1680, 1698, 1703
Tactical 1807, 1813-1814
Terry Cloth 1702-1703
Thermal-Protective . . . 1676-1677, 1680, 1685, . . .1687, 1689, 1700-1701, 1703, 1709, 1816
Tool Handling. . . . . 1680-1681, 1683-1684, ...1693-1696, 1699-1701, 1709, 1815
Vibration-Resistant 1681
Vinyl. 1669-1671, 1689, 1831
Warm Condition 1816
Welding 1678, 1702, 1704, 2405
Wet-Grip. . . . . 1674-1678, 1680-1682, 1685, ... 1689, 1691, 1816

GLUCOSE GELS 1830

GLUE
Brushes 1616
Guns. 2238
Sticks. 1361, 2238
Traps 1017, 1022

GLUE,
Aerosol. 2216, 2223, 2226
Carpenter's 2237
Contact 2225, 2228, 2237, 2835
Craft. 1361, 2216, 2237-2238
Hot Melt 2238
Instant Adhesive 1361, 2216, 2225, 2237
Nonflammable 2228
Polyvinyl Acetate (PVA) 1361, 2237
White 1361, 2237
Woodworking. . . . 891, 2216, 2228, 2237-2238
Yellow 2237

GOGGLE ACCESSORIES 1668

GOGGLES,
Antifog. 1660, 1663, 1667-1668
Chemical Protective. 1667-1668
Safety 1663, 1667-1668, 1709
Welding 2405

GOLF
Cart Battery Chargers 535
Cart Tires 957
Cart Tool Carrier Extensions. 745
Carts 989

GOWNS,
Barrier 1734
Chemical-Protective 1734

GPS (GLOBAL POSITIONING SYSTEM)
Clock Signal Receivers 1375
Navigational Systems 949

GRAB
Bars 2759-2761
Hooks, Clevis 961, 1070

GRABBERS,
Arm Extension 1551
Barrel. 1144-1146

GRABS,
Rope 1788, 1790, 1806

GRAFFITI REMOVERS/BARRIERS
. . . . . .1519, 1613, 2446

GRANITE CLEANERS. 2342

GRAPHITE LUBRICANTS. 2441, 2443

GRASS KILLERS 1003

GRATES,
Floor Drain 2723-2725
Tree 1003

GRATING CLIPS 1900

GRATING,
Antislip. 1047, 1900, 2193, 2195-2196
Fiberglass Walkway. 2195-2196
Plank 2195-2196

GRAVITY CONVEYORS 1108-1109

GREASE
Baffles 3052
Bearing Packers 934
Collector Boxes, Ventilator. 2962
Dispensers. 933-934, 2465, 2672
Feeders 2465
Filters. 3052
Fittings, Tools & Kits 935
Hose Reels. 937, 2523-2524, 2527
Lubricators. 2465
Meters 937
Pencils. 1365, 1614
Removers. 901, 1519-1520, 1522, 2446
Traps 2732

GREASE GUN
Adapters 934-935
Barrels 932
Batteries 933
Chargers 933
Couplings. 934-935
Filler Pumps. 2672
Fittings. 934-935
Holders 932
Hoses. 934
Lubrication Kits 933-934
Needles 934
Nozzles 934
Valves 934

GREASE GUNS. . .670, 679, 932-934, 936-937

GREASE PUMP
Bearing Packers 934
Dollies 930
Packages. 933-934
Whip Hoses 934

GREASE PUMPS 933-934, 936, 2672

GREASE,
Aerosol. 899, 901, 2442, 2452-2453
Air Tool. 2456
Automotive. 897, 899-900, 905, 2450-2453
Bearing 899, 2450-2453
Blower 2585
Brake. 899, 2451, 2453
Caliper 899
Coupling. 2450
Electric Motor 2452
Food-Grade 899, 2438, 2442, 2450-2453
Gear 901, 2450-2451, 2453
Gun Cartridge. 899, 2450-2452
High-Load Bearing. 899, 901, 2450, 2452
High-Temperature 232, 899, 2450-2453
High-Temperature Silicone 2452
High-Pressure 899
Lithium. 899, 901, 2450-2453, 2585, 2746
Low-Temperature 899, 2450, 2452-2453
Lubricant . . . . . .232, 899, 901, 2438, ...2442-2443, 2450-2453, 2585, 2746
Marine 899, 2450, 2452-2453
Moly (Molybdenum Disulfide) 899, 2450, 2452
Multipurpose . . . . . .899, 901, 2438, ... 2450-2453, 2585, 2746
Non-Flammable 2451
Non-Ozone Depleting. 2453
Silicone 899, 2450-2452
Synthetic 899, 2450-2453, 2585
White Lithium. 899, 901, 2451, 2453

GRIDDLE
Pad Holders 1548
Replacement Parts 1461

GRIDS,
Paint Can 1620
Paint Collector 3058
Shower Drain. 2723
Shower Elevation. 1824
Spray Booth Filter 3058

GRILL
Cleaners. 1514, 1549, 2446
Components. 1459
Covers 1459
Scrapers/Blades 1459
Thermometers. 586, 596, 1455

GRILLE COVERS,
Evaporative Cooler. 3001

GRILLE KITS,
Ceiling Fan Light 2943

GRILLES,
Air Conditioner/Heat Pump 2992-2993, 2995
Air-Return 3102
Exhaust 302
Fan. 302, 2926, 2943
Filter 3102

GRILLS & FIRE RINGS 1458-1459

GRINDER
Guards 722, 2363
Knife Sharpener Attachments 724
Pumps 2624
Safety Shields 2359, 2363
Shrouds 722

GRINDER/SANDERS
. . . . . 665, 677, 683, 687-688, 691, 695, ...719, 721-722, 724-725, 2360

GRINDERS,
Air 2506-2509
Angle . . . . . .665, 677, 686, 688, 691, 695, ...719, 721-722, 2506-2507
Bandfile 723
Belt 2360
Bench. 2359-2361
Coffee 1438
Cordless. . . . . .665, 677, 681, 683, 686, ... 688, 691, 695
Die 723, 2507-2508
Electric. . . . . .681, 683, 687, 691, 695, ...719, 721-724, 2359-2361
Extended 2508
Floor. 719
Hand . . . . . .665, 677, 681, 683, 688, 691, ... 695, 719, 723
Mini 2506-2509
OD 2361
Pencil. 2509
Pneumatic 2506-2508
Right Angle . . . . . .665, 677, 688, 691, ...695, 721-722, 2506-2507
Side 665, 677, 688, 691, 695, 719, 721-722
Straight-Shaft 681, 683, 723, 2508
Surfacing. . . . . .665, 677, 688, 691, 695, ... 719, 721-722, 2361
Tuck-Point 719
Vertical. 2506
Wheel. 2506-2508

GRINDING
Cones. 2391
Discs 2370-2373, 2377-2379, 2382
Drill Attachments. 2395
Fluids. 2458-2460
Plugs 2391
Stones 724, 2392
Wire Brushes 862, 2394-2398, 2400, 2618

GRINDING WHEEL
Adapters 2374
Dressers 2359

GRINDING WHEELS,
Bench. 737, 2388, 2391
CBN 2254
Cut-Off. 719-721, 734, 737, 2383-2388
Depressed Center 2384, 2386-2388
Diamond 2254
Drill-Sharpening 2254
Flap 2380-2382
Flaring Cup 2391
High-Speed Cut-Off 737, 2384-2387
Knife-Sharpening. 2388, 2391
Mounted Point 2392
Pedestal. 2388, 2391
Raised Hub 2382, 2384-2388
Resin-Mount Point. 2392
Rough 2391

GRIP TAPE 1900-1901

GRIPPERS,
Plastic Compression Tubing. 2856

GRIPS,
Arm Extension 1551
Bus Drop 327
Cable 274, 325-327, 352
Cable Puller 847
Cable Support 327, 352
Clamp Weaver 834
Conduit 327
Cord 325-327
Drum 1144-1146
Dust-Tight 327
Hubbell Power Connector 327
Liquid-Tight 322, 325
Plate. 1065
Pulling 352
Spray Can 1611
Strain Relief. 325-327, 352
Vacuum Suction. 1065
Wire Mesh 325-327, 352

GRIT PAINTS 1604, 1634

GRIT-SURFACE FIBERGLASS SHEETS
. 2194

GROMMET EDGING. 300

GROMMETS,
Automotive. 2055
Electrical 318-319
Neoprene 230
Nylon 2055

Rubber 2207
Voice/Data Cable 318, 1338, 1884

GROOVERS,
Concrete 892
Roll 872

GROOVING TOOLS 731, 2305-2306

GROUND
Clamps 392, 557, 1711, 2416, 2424-2425
Rod Drivers 713, 715
Rods 323

GROUND FAULT
Circuit Breakers 188, 191-192, 200, 413
Circuit Interrupters 402
Interrupting Plugs 402
Receptacles 330, 333, 402, 412-413
Testers 547
Wall Plates 328

GROUND KITS,
ESD 561, 1320
Load Center 175, 190-191, 198
Safety Switch 175

GROUNDING
Bushings 315
Clamps 323, 392, 1711
Connectors 322, 387, 391-392
Cords 387, 561, 1320
Fittings 322
Reels 2526
Straps, Automotive Battery 924
Straps, Wrist/Heel 561, 921, 1320
Studs 392
Systems 323, 561, 921
Wire 387, 1320, 1876

GROUNDS,
Magnetic Welding 2424
Raised Floor 392

GROUT
Bags 891
Brushes 891, 1545
Cleaners 1503, 1519, 1522
Floats 891
Removal Tools 687, 695, 724, 891
Saw Blades 724
Saws 891
Sealant Applicators 891, 2236
Sealants 2230
Sponges 891

GUARD BUILDINGS 1311

GUARDRAIL
Anchors 1134
Bases 1133-1134, 1789
Connectors 1133-1134, 1789
End Guards 1133
Mounts 1133-1134, 1789
Pockets 1133
Posts 1133, 1230, 1789
Reflectors 1904

GUARDRAILS . . . . . 1040-1041, 1043, 1108, ... 1118, 1133-1134, 1308, 1312, 1783, 1789

GUARDS,
Air Circulator 2916
Air Conditioner Condenser 3094
Airless Spray Gun Tip 1628
Arm 1686, 1703, 1715-1717, 1733, 1739
Blower . . . . . 2940-2941, 2980-2982, ... 2984-2985, 2987
Cable 307, 404-405, 1131
Chin 1639, 1709, 2407
Corner 1105, 1132, 1134, 2006
Door 2005-2006
Drill Press 2345-2346, 2363
Equipment 1132-1134, 1227-1228, 1230
Fan . . . . . 302, 2916, 2926-2927, 2934, ... 2940-2941, 3089
Finger 302, 1673
Foot 1746, 1757
Foot Switch 263
Grinder 722, 2363
Gutter 1858
Heater 3074, 3079
Inlet . . . . . 1858, 2940-2941, 2980-2982, ... 2984-2985, 2987
Instep 1746
Instrument Gauge 2913
Knee 1746
Knife 1452-1453
Lamp 481, 518
Latching Edge 2006
Lathe 2363
Lighting Fixture . . . . . 449-450, 452, ... 518-519, 2053
Machinery . . . . . 278, 1132-1134, ... 1230, 1315, 2363
Metatarsal 1746
Mirror 2761
Paint 1620
Pallet Rack 1227-1230
Rack 1132-1134, 1227-1230
Sander/Grinder 722
Saw Blade 2350
Shelf 1247
Shin 1746, 1813
Sink Splash 2728-2729
Speaker 1979, 2053
Spindle 2363
Splash 1493, 2728-2729, 2732, 2751
Stainless Steel Splash 2729
Thermostat 3022, 3040
Toe 1746, 1757
Wall 2006
Wire 452, 518, 2053, 2463

GUIDE RAILS 2625

GUIDES,
Burning 2422-2423
Cable Tray 307
Fastener 2054
First Aid 1831-1832
Hose Reel Roller 2528-2529
Miter Saw 724
Paint 1620
Plasma Cutter 2422-2423, 2425, 2430
Rope 1807
Screw 698-699
Torque 2054

GUM REMOVERS 1517, 1519, 2446

GUM RUBBER 2204-2205

GUM,
Sealing 3012

GUN
Brackets, Abrasive Blast Cabinet 2402
Cases 1304
Cleaning Tools 814
Cup Liners 1625-1627
Cups, Paint Spray 1625-1626
EM-SS Taps 2273
Lubricants/Oils 2438
Plug Taps 2267, 2273-2274
Safes 1968
Taps 2262, 2267, 2272-2274

GUNS,
Abrasive Blasting 2402-2404
Adhesive . . . . . 670, 679, 685, 688, 2172, ... 2219, 2233, 2238
Air 2233, 2437, 2515-2518, 2582
Air Rivet 684, 2135, 2505-2506
Blow 2515-2518, 2582
Booster 934
Caulk . . . . . 670, 679, 685, 688, 2219, ... 2233-2234, 2236
Drain Cleaner 671, 863-864, 2437, 3010
Drywall Hopper 889
Epoxy 670, 2219, 2238
Foam 1884, 2236, 2238
Glue 2238
Grease 670, 679, 932-934, 936-937
Heat 679, 738-739
MIG (Metal Inert Gas) 2413-2414
Nail 669, 679, 695, 890, 2496, 2498-2500
Oil 936-937, 2518
Paint Spray 1611, 1625-1629
Rivet 684, 2135-2136, 2505-2506
Soldering 238, 685, 874, 2436
Spray . . . . . 932, 1002, 1591, 1611, ... 1625-1628, 2518, 3011
Staple 669, 684, 890, 2500-2501
Welding 2413-2414

GURNEY CASTERS . . . . . 1195, 1202-1206, ... 1209-1214

GUSSETS,
Shelving 1250

GUTTER
Drains 980
Guards 1858

GUTTER DEICING CABLES 3067

H

H-STANDS,
Conveyor 1113

HACKSAWS 729, 886

HAIR
Dryer Bags 1474
Dryer Motors 38
Dryers 1474

HAIRNETS 1709, 1731, 1738

HAIRPIN
Clips 2150
Cotters 2150

HALLIGAN BARS 1820

HALOGEN
Lamps . . . . . 487-488, 490-496, 498-502, ... 514, 520, 968-970
Landscape Lights 458, 461
Leak Detector Tips 3008
Leak Detectors . . . 2494, 2820, 3008-3010, 3012
Pool Lighting Fixtures 2639
Portable/Task Lighting 513, 520-521
Spotlights 496, 971

HAMMER
Carts 673
Drill Bits 709, 711-714, 716, 2161, 2166
Drill Chucks 710
Drills . . . . . 665, 667-668, 672, 674-675, . . . 681-683, 686-687, 690, 692-694, 710, 714
Holders 755
Tackers 890
Tips 828
Trolleys 673

HAMMERS,
Air 2512-2513
Backing-Out Punch 862
Ball Pein 825-826, 863
Blacksmith 825
Brass 825
Breaker 673, 710, 715
Brick 827, 862, 892
Chipping 715, 827, 2424, 2512-2513
Claw 826, 861, 863
Cross Pein 825, 828, 862
Dead Blow 826-828
Demolition 673, 710, 715, 2513
Double-Face 825, 827-828, 862-863, 1820
Drywall 827
Electric 673, 710, 714-715
Engineer's 863
Framing 826
Mallet 827-828, 862
Nonmarring 825-828
Nonsparking 825, 827-828, 862-863
Pneumatic 2512-2513
Replaceable Tip 828
Rip 826, 891
Riveting 827
Rock Pick 827, 999
Roofing 827
Rotary . . . . . 665, 667-668, 675, 683, 686-687, ... 690, 693, 710, 714
Rubber 827
Scaling 862
Setting 816
Shingler's 827
Sledge 825, 827-828, 862, 1820
Slide 915
Soft-Face 825, 827-828
Split-Head 828
Tinner's 816, 827
Welding 827, 2424

HAMPERS 1162, 1172, 1475, 1535

HAND
Blocks 911, 2366-2367
Brake Winches 1085
Cleaner Dispensers . . . . . 1496-1501, 1514, ... 2727-2728, 2736
Cleaner Wipes 1500, 2446
Cleaners . . . 1496-1498, 1500-1501, 1514, 2736
Conduit Benders 850
Creams 1498
Crimpers . . . . . 365, 381-382, 384, 814, ... 841, 846-847, 855, 2530
Dryer Nozzles 1493
Dryer Recess/Retrofit Kits 1493
Dryers 1493
Grinders . . . . . 665, 677, 681, 683, 688, ... 691, 695, 719, 723
Knobs 256, 2318, 2323-2324
Lever Valves 2542, 2546-2548
Lotions 1498
Notchers 303, 816
Pads 908, 911, 1515, 1548-1549, 2367, 2369
Pallet Trucks 1173-1174
Presses 2357
Pumps . . . . . 685, 896, 936-937, 955, 1193, ... 1782, 2461, 2466, 2468-2469, 2656, ... 2672, 2674, 2676-2677, 2912, 3012
Reamers 814, 871, 2258
Sanders . . . . . 677, 681, 683, 687-688, ... 695, 721-722, 889, 911, 2366-2367, 2369
Sanitizers 1498-1500, 1514, 1831
Saws 800, 814, 886, 889, 1006, 1830
Seamers 816
Sieves 649
Sinks 2726-2728
Soaps 1496-1498, 1501, 1514, 2736
Stamps 1934-1935
Tampers 1009
Tapers 889
Taps . . . . . 802, 851, 2141, 2262-2268, ... 2270, 2274-2275
Towels 1472, 1487-1488, 1492, 2446
Warmers 685, 1642
Winches 1059, 1085, 1105
Wipes 1500, 2446
Wrap 1414-1416

HAND PROTECTION (SEE GLOVES)

HAND TRUCK
Curb Climbers 1184-1185
Curb Ramps 1127
Lift Forks 1183
Nose Extensions 1184-1185
Platform Attachments 1180, 1183
Stair Climbers 1184-1185, 1188
Tires 1219-1220
Toe Plate Expander Kits 1184-1185
Walk Ramps 1127
Wire Caddies 849

HAND TRUCKS,
4-Wheel . . . . . 1143, 1151, 1161, 1163-1168, ... 1171, 1185-1189, 1341
A-Frame 998, 1168, 1330
Adjustable-Shelf 1151
Aluminum . . . 1143, 1165, 1184-1186, 1188-1190
Appliance 1185, 1189
Battery-Powered 1174-1175, 1179, 1186
Composite 1185-1186

Convertible....1186
Cylinder....1003, 1187-1188
Drum....1142-1143, 1146, 1188, 1190
File Cabinet Mover....1186, 1190
General Purpose....1150, 1184-1186, 1188, 1190
High-Stack....1184-1185
Hydraulic....1178, 1187, 1189
Industrial....1003, 1143, 1150-1151, 1157, 1159, 1163-1167, 1171, 1184-1186, 1188-1190
Keg/Case....1190
Luggage....1186
Manual-Lift....1189
Medical Oxygen....1187
Platform....1151, 1163-1167, 1171, 1185-1186, 1341
Sack....1190
Stair-Climbing....1184-1186, 1188-1190
Steel....849, 1165, 1167-1168, 1184-1186, 1188-1190, 1341
Vending Machine....1189
Wagon....1163-1165, 1167, 1171
Welding....1003, 1188
Wire....849, 1157, 1161-1162, 1167

HANDBOOKS (SEE BOOKS)

HANDICAP
Carts....1171
Pool Lifts....1481
Signs....1911, 1917, 1926

HANDLE
Magnets....829, 1066
Ties, Circuit Breaker....191, 199

HANDLERS,
Drum....861, 1143-1146
Multiposition Air....3091

HANDLES,
Adjustable Workholding....2322
Air Filter....3052
Aluminum....1547, 1551
Broom....1534, 1541-1542, 1546-1547
Brush....908, 1534, 1541-1542, 1544-1547
Bull Float....892
Cabinet....1272, 2003, 2018
Cable Connector....924
Cam....2322
Circuit Breaker Padlock....191
Concrete Float....892
Concrete Placer....892
Conduit Bender....850
Deburring Tool....2401
Disconnect Switch....298
Door....1980-1989, 1993-1996, 2005, 2762
Drive Socket....768-769, 771-772
Dust Mop....1532, 1534, 1537
Exit Device....1993-1996
Extension....547, 1534, 1546-1547, 1551
File....820
Flow-Through Brush....908
Jack....960, 2466
Lever....1123, 1993-1996, 2322, 2324
Linear Motion Brake....1119
Magnifier....2340
Medical Light....514
Mop....908, 1528, 1532-1534, 1536-1537
Operating Mechanism....298
Paint Roller....1618-1620
Pick....999
Pull....1993-1994, 2003, 2005, 2018
Ratchet (See Ratchets)
Roller....1403, 1618-1620
Shelving....1246
Shovel....997
Shower Control....2745
Shrink Wrap....1417
Socket....768-769, 771-772
Soldering....238
Squeegee....1534, 1541, 1546-1547, 1550-1551
T-....768-769, 771-772, 854, 1009, 1123, 2323
Tapered....2324
Tapered-Tip Broom....1541
Telescoping....1534, 1546-1547, 1551
Thermometer Gripping....588
Threaded Tip....1534, 1541, 1546-1547
Tool Chest....2018
Torch....2433-2434
Vise....2346
Window....2018

HANDRAIL
Brackets....1308, 2006
Corners....1134

HANDRAILS
....1040, 1134, 1308, 1481, 2759-2761

HANDS-FREE
Drinking Fountains....2720
Faucets....2734-2736
Sanitizer/Soap Dispensers....1496-1499, 1514, 2736
Sinks....2726-2729
Towel Dispensers....1485-1486, 1491
Trash Cans....1557, 1876

HANDWHEELS....2318

HANGERS,
Air Line....2586
Bar....308
Cable....317-319, 410
Can....1620
Clevis....316, 2824
Clothes....1476
Concrete....2147, 2168
Conduit....316-321, 2824
Cubicle Wall File....1358
Dock Chock Chain....1130
Document Pocket....1383
Drop Ceiling....318
Gutter Deicing Cable....3067
Hose....1016, 2729
Lighting Fixture....317-318
Pipe....316-317, 319-320, 2074, 2788, 2796, 2799, 2824-2828, 2831, 3096, 3099
Rod....318, 2147, 2168, 2828
Saddle Vent....1784
Side....318, 2147
Steel....2147
Tee Bar....317-318
Tool....1329, 1331
Track....318
Vertical....2147
Wall File....1358
Wireway....293
Wood....1476, 2147

HANGING
File Cabinets/Systems....1337, 1344-1345, 1361
Permits....1970
Scales....1065, 1429
Speakers....2039
Straps....2796, 2827
Wall Files....1358

HARD HAT
Adapters....1639
Ear Muffs....1648-1649
Flashlights....528, 680, 1709
Labels....1640
Lanyards....1640
Liners....1640, 1642
Racks....1640
Suspensions....1638
Visor Frames....1639

HARD HATS....1635-1637, 1707, 1709, 1769

HARD START KITS,
Air Conditioner/Refrigeration....3031
Heat Pump....3091

HARDENERS,
Auto Body Filler....905-906
Concrete....1632

HARDWARE,
Door....1119-1121, 1123-1124, 1451, 1976-1978, 1984-1985, 1990-1996, 1998, 2003, 2005, 2007-2014, 2055, 2762, 2937
Garage Door....1123-1124
Window....2018, 2055

HARMONIC BALANCER PULLERS....913, 916

HARNESS ACCESSORIES
....1793, 1795-1798, 1802-1805

HARNESSES,
Alternator....2055
Arc Flash....1794, 1796, 1798
Battery....2051
Binocular....2041
Fall Protection....1793-1798, 1806
Fire Rescue....1807
Lifting....1410, 1822
Retrieval....1098, 1793, 1795-1798, 1822
Sit....1797
Vest....1796
Wire Management....961, 2055

HASPS,
Adjustable....1962
Corner....1962
Draw....2016
Fixed Staple....1962
Hinge....1962
Locking....191, 296, 1953, 1959, 1962
Lockout....296, 1949, 1953, 1962
Rotating Staple....1962
Safety....1953, 1962
Security....296, 1959, 1962, 2016

HASTINGS MAGNIFIERS....2340-2341

HATCHETS....827, 1007

HATS,
Baseball....1641
Cold-Protective....1638, 1642
Cooling....1641
Hard....1635-1637, 1707, 1709, 1769
Welding....1716

HAZARD COMMUNICATION
Binders....1942
Jobsite Centers....1942
Signs....1527, 1903, 1918-1919, 1921, 1924, 1940
Training Posters....1941-1942

HAZARDOUS LOCATION
Air Circulators....2919
Air Conditioners....2991-2992
Blowers....1784-1785, 2986-2987
Cable Connectors....326
Conduit Bodies....314
Conduit Fittings....314, 321
Emergency Lighting....460
Fans....1784-1785, 2919, 2929, 2931, 2940-2941, 2955, 2958, 2960
Hand Lamps....522, 529
Heaters....3078-3079
Horns....1885-1886
Incandescent Lighting....449, 498
Lamps....451
Lighting Fixture Accessories....449, 452
Lighting Fixtures....439, 449, 451-452, 460
Marking Tape....1902, 1907
Motors....28-30, 2675
Outlet Bodies....314
Outlet Boxes....321, 449
Plugs....340
Portable Evaporative Coolers....2998
Portable/Task Lighting....522
Power Supplies....210, 212
Pumps....2621, 2649
Pushbutton Contact Blocks....256
Signal Lights....279, 449, 1885-1886, 1888
Speakers....2052
Strobe Lights....1885-1886, 1888
Switches....250, 263-264, 267
Thermostats....3028
Tools....798, 826-827, 861-863, 887, 1547

HAZARDOUS MATERIAL
Bags....1562
Cabinets....1836, 1868-1873
Containers....1138-1139, 1836, 1854, 1861, 1865
Disposal Systems....1606, 1854, 1864
Drum Storage Rack Shelves....1864
Drums....1138-1139, 1861
Labels....1930, 1937, 1940
Neutralizers....1854
Overpacks....1138, 1854, 1861
Placards....1937
Shipping Kits....1402
Shovels....862
Spill Kits....1854
Storage Racks....1864
Sumps....1865
Vacuum Cleaners....1564, 1570, 1572

HDMI (HIGH DEFINITION MULTIMEDIA INTERFACE)
Adapters....360-361
Cables....359-360
Connectors....356, 360-361
Couplings....360
Wall Plates....360

HDPE PLASTIC....2210

HEAD IMMOBILIZERS....1821-1822

HEAD PRESSURE CONTROLS....3031

HEADGEAR....1639, 1769

HEADLAMPS,
Firefighter....528-529
Halogen....504
Incandescent....504
LED....524, 528-530, 680, 968
Rechargeable....528, 680

HEADLIGHTS,
LED....970

HEADRAILS,
Toilet Stall....2762

HEADS,
Broom....1539-1541, 1546-1547
Camera....616-617
Centering....2334, 2422
Combination Square....2334
Duster....1518, 1535, 1538
Limit Switch....264-265, 268-269, 271
Magnifier....2340
Micrometer....2327
Mop....1528, 1530-1537
Protractor....2334
Pump....2633, 2648, 2654, 2695-2698
Shower....1844, 2744-2746, 2749, 2761
Sprinkler....2764
Tapping....2315
Torque Wrench....769, 785
Tubing Press Tool....2800
Vacuum Cleaner....1481, 1565, 1573
Vibrator....149

HEADSETS,
2-Way Radio....2025, 2027-2032
Bluetooth Wireless....613, 2028
Telephone/Cellular Phone....949
Thermal Imager....613

HEADWEAR,
Cold-Protective....1640, 1642
Cooling....1640-1641
Flame-Resistant....1709, 1714
High-Visibility....1641
Sanitary....1709, 1731, 1738

HEARING AID BATTERIES....534

HEARING-IMPAIRED EQUIPMENT....2036

HEARING-PROTECTIVE
Ear Muffs 1648-1649
Ear Plugs 1643-1647
Hearing Bands 1645

HEAT
Alarms 1881
Controls 220, 639, 3022-3027, 3030, 3033-3035, 3066, 3071, 3074, 3077, 3079, 3083
Detectors 1881, 2051
Exchanger Fan Blades 2950
Guns 679, 738-739
Irons 891
Lamps 492, 501-502
Packs 1829
Retaining Doors 1120-1121
Sealer Repair Kits 1406
Sealers 739, 1406, 1418, 3012
Sequencers 3035
Sink Compounds 232, 590, 3012
Sink Paste 232, 590, 3012
Sinks 219
Slingers 2983
Tape 639, 3067
Tools 234, 679, 738-739, 2430-2431
Transmission Compounds 3012

HEAT/COOL UNITS,
Room 2990-2995
Through-the-Wall 2992-2993
Window 2990-2991

HEAT EXCHANGERS 2493, 3039

HEAT PUMP
Air Handlers 3091
Compressors 3014
Condensing Units 3091
Controls 3020-3022, 3025
Drain Kits 2993
Evaporator Coils 3091
Fan Blades 2950
Filter/Dryers 3015
Hard Start Kits 3091
Hoses 3091
Motors 51, 62
Outdoor Units 2995
Risers 3094
Solenoid Coils 3092
Switches 3016
Thermostats 3020-3023, 3025, 3091
Valves 3092
Wall Sleeves 2992
Water Heaters 2714
Window Mounts 2990

HEAT PUMPS,
Split System 2994-2995
Through-the-Wall 2992-2993

HEAT-SHRINK
Terminals 383-386
Torches 233-234, 739, 1003, 2436
Tubing 372, 376-378, 1378, 1418, 2656

HEAT TRACE CABLES 3067

HEATED BLANKETS 949

HEATED CLOTHING/FOOTWEAR/HEADWEAR 685, 1756

HEATER
Blowers 3085
Brackets 3070, 3077-3078, 3081, 3087
Cabinets, Hydronic 3090
Cable Kits 3070-3071
Cap Guards 3085
Carts 3071
Ceiling Mount Brackets 3077
Connectors 2717, 3070-3071
Controls 158, 639, 3024, 3026, 3030, 3034-3035, 3066, 3074-3075, 3079, 3081
Cords 3067, 3077
Covers 3074
Diffusers 3083, 3086, 3089
Duct Adapters 3083
Elements 3065, 3067, 3079, 3081, 3090
Expansion Tanks 2661, 2717
Extensions 3087
Floorboards 3085
Flue Stacks 3083
Frames 3073-3074, 3076, 3081
Guards 3074, 3079
Installation Kits 3085
Louvers 3076
Mounting Frames 3073-3074, 3076, 3081
Mounts 2947, 3070, 3073-3074, 3076-3078, 3081, 3087
Reflectors 3087
Registers 3085
Replacement Parts 3045, 3079, 3081
Service Kits 3083
Thermostats 3023-3026, 3034-3035, 3071-3072, 3074-3075, 3077, 3083
Transformers 3075
Trim Kits 3075
Tune-Up Kits 3083
Vents 3085-3087
Wall Mounts 3070, 3073-3074, 3077-3078
Wall Sleeves 3073-3074, 3090
Wire 230-231, 3087

HEATERS,
3-Lamp Infrared 3080
Anticondensation 302, 3065-3066
Architectural 3073-3075
Baseboard 3069, 3072
Beaker/Flask 639
Bearing 145
Blower-Type 3075, 3086
Blue Flame 3087
Built-In 3071, 3073-3075
Bulb-Type 2943
Cartridge 3063, 3066
Ceiling 3073, 3075-3077, 3087-3089
Ceramic 3068-3070
Circulation 3065
Commercial 3071-3075, 3079, 3084, 3086-3087
Confined Space 1783, 3070
Construction 1783, 3068-3070, 3077, 3082-3085, 3087-3088
Control Cubicle 302, 3065-3066
Convection 3068-3070, 3075-3076, 3078-3079, 3084
Cove 3075
Deep Tank Immersion 3064
Direct-Fired 3083
Drum 1141
Dual-Heat 3069-3070
Duct 2947, 3063, 3065
Electric 302, 874, 1141, 1783, 2942-2943, 2947, 2996, 3030, 3063-3080, 3091
Enclosure 302, 3065-3066
Eyewash Station 1839
Fan-Forced 302, 3068-3070, 3076-3078, 3084
Finned 3063, 3065, 3072, 3090
Flat Panel 3068
Floor 3071, 3088
Floor Drop-In 3071
Forced Air 3083-3084
Garage 3070, 3073-3074, 3077, 3083-3085, 3087-3088
Gas 3082, 3084-3088, 3091
Gate Operator 1969
Greenhouse 3078
Hazardous Location 3078-3079
Heavy-Duty 3070, 3072, 3079-3080
High-Bay 3071, 3079-3080
High-Density 3066
Hydronic 3072, 3088-3090
Immersion 3063-3065
Indoor/Outdoor 3071, 3079-3080
Industrial 1141, 3063-3066, 3070, 3075, 3078-3079, 3086-3087
Infrared 3069, 3071, 3079-3080, 3087
Kerosene 3083
Laboratory 639, 1141, 3078-3079
LPG 3082-3084, 3087, 3089
Metal Sheath 3079
Milkhouse 3069-3070
Motor 162, 165-166, 174
Multimount 3071, 3079-3080
Natural Gas 3083-3089, 3091
Oil-Filled 3068
Oil-Fired 3083, 3089
Patio 3070, 3079, 3082
Pipe 1141
Plenum 3076
Portable 1783, 2996-2997, 3067-3070, 3082-3084, 3087
Power Vented 3086
Propane 3082-3084, 3087, 3089
Propeller-Type 3086
Pump House 3075
PVC 850
Quartz 3068-3069, 3071, 3079-3080
Radiant 302, 3068-3071, 3075-3076, 3079-3080, 3082-3084, 3087
Refrigerant Tank 3013
Residential 2942-2943, 3068-3069, 3071-3075, 3085, 3089-3091
Respirator Air 1769-1771
Restroom 2942-2943, 3071, 3073-3075
Room 3068-3075, 3085, 3090
Salamander 3070, 3083-3084
Silicone 1141, 3066
Space 1783, 3068-3070, 3073-3074, 3077-3079, 3082, 3084, 3087
Stainless Steel 3063-3066, 3080
Steam 3088-3090
Strip 3063, 3065-3066, 3079-3080
Tamper-Resistant 3073-3074
Tank Top 3082
Tent 1783, 3070, 3083
Toespace 3071, 3090
Torpedo 3083-3084
U-Rod 3079
Unit 3075, 3077-3079, 3086, 3088-3089
Vent-Free 3082, 3085, 3087-3088
Wall 2994-2995, 3069, 3072-3075, 3077-3079, 3087
Washdown 3078
Water 1824, 2712-2716, 3063-3065
Well House 3075

HEATING
Elements 235, 238-239, 1406, 3065, 3067, 3081, 3090
Fuses 177-180, 182
Mantles 639
Nozzles 2433-2434, 3086
Torch Tips 234, 2433-2434

HEATING CABLES 3067

HEDGE TRIMMERS 1004, 1006

HELICAL
Thread Insert Tools 2137-2138
Thread Inserts 2137-2141
Wire Insert Taps 2137-2138, 2141, 2270
Wire Inserts 2139-2141

HELIUM REGULATORS 2428-2429

HELMET DRYERS 1757

HELMETS,
Abrasive Blasting 1771-1772
Firefighting 1815
NFL-Branded 1635
Rescue/Climbing 1637, 1807
Respirator 1766-1767, 1769-1772, 2407
Welding 1766-1767, 1769-1770, 1772, 2405-2407

HEPA
Air Cleaners 719, 3059-3061
Air Filters 636, 2989, 3056, 3059-3061

HERBICIDES 1003

HEX
Bit Sockets . . . 759, 767-771, 773-774, 779, 860
Bolts 2055-2056, 2063, 2069-2071, 2103
Bushings 2776
Drivers 696, 773, 778, 786, 801, 803, 805
Key Assortments 805-806, 856, 861
Keys 758, 805-807, 848, 856, 861, 863, 3040
Locknuts 2056, 2079, 2082-2083, 2769
Netting 1010
Nuts 316, 2055-2056, 2079-2084, 2087, 2097, 2197
Plugs 2780
Screwdriver Bits 698-700, 702-703, 767, 800-802
Screwdrivers 696, 786, 801-803, 857
Screws 316, 1106, 2055-2070, 2097, 2100, 2105-2107, 2110, 2112
Shank Drill Bits 698-700, 705, 851
Shanks 768
Sockets 703, 758, 762, 765, 767-770, 773-774, 776-779
Standoffs 2148
Wrenches 805-807, 856, 861, 863, 867

HID (HIGH-INTENSITY DISCHARGE)
Floodlights 452, 460, 495, 508, 521
High-Bay Reflectors 445
Low-Bay Reflectors 445
Portable/Task Lights 518-521
Spotlights 495, 508
Wall Packs 452, 454

HID BALLAST
Core and Coils 477-478
Housings 445
Ignitors 478

HID BALLASTS 477-478

HID FIXTURE
Mounts 452
Replacement Parts 445
Shorting Caps 458
Wire Guards 452

HID FIXTURES,
Floodlight 452, 460
Hazardous Location 452
High-Bay 445
High-Pressure Sodium (HPS) 445, 449, 452, 454, 458, 460
Low-Bay 445
Metal Halide 445, 449-450, 452, 454, 458, 460, 519
Roadway 458
Sports 460
Vandal-Resistant 450
Wall 449, 454, 458
Warehouse 445

HID LAMPS,
High-Pressure Sodium (HPS) 507-509
Mercury Vapor 507-508
Metal Halide 495, 505-510, 520

HIGH-BAY
Ballast Housings 445
Fluorescent Fixtures . . . 439, 445, 448, 451-452
Heaters 3071, 3079-3080
HID (High-Intensity Discharge) Fixtures 445
LED Fixtures 445-447, 451

HIGHLIGHTERS 1364

HIGHWAY
Safety Kits 1905
Signs 1915, 1917
Triangles 965, 1905

HINGE
Hasps 1962
Kits 2962

HINGES,
Adjustable-Spring 2009
Ball Bearing 2007, 2009-2010
Barrel 2013
Butt 2008
Cabinet 1305
Commercial 2007-2011
Concealed 2007
Continuous 2012-2014
Door 1119, 1124, 2007-2014
Double-Acting 2009

Electrified 2011
Framing 1119
Full-Mortise 2007-2012, 2014
Full-Surface 2007-2014
Garage Door 1123
Geared 2012
Half-Mortise 2010
Half-Surface 2009-2010, 2012, 2014
Hospital-Tip 2007, 2010, 2012, 2014
Institutional 2007-2008
Lift-Off 2014
Narrow 2011
No-Hole 2008-2009, 2012-2013
Piano 2012-2014
Pivot 2011
Plain Bearing 2007, 2011
Prison 2007-2008
Residential 2009
Security 1123, 2008-2009
Spring 2009-2010
Structural Framing 1119
Swing Clear 2010
Utility 2008, 2011-2014
Ventilator 2962

HITCH
Balls 958-959
Drawbars 958-959
Locks 958, 961
Lunette Eyes 958
Lunette Rings, Pintle 958, 961
Pin Clips 2150-2151
Pins 958-959, 961, 2152
Pintle Hooks 958-959
Plates 958
Receiver Extensions 959
Safety Cable/Chain Connectors 958
Safety Cables/Chains 958, 1107
Steps, Trailer 958
Wire & Wire Connectors 961

HITCHES,
Trailer 951, 958-959, 1000

HOES,
Concrete Placer 862
Fire 1820
Food Grade 1456-1457
Garden 862, 999
Mortar Mixing 862, 892

HOG RINGS 2837

HOIST
Chain Containers 1055
Control Buttons 249
Control Cables 345, 348
Control Lockouts 1946
Hook Assemblies 1069, 1084
Latch Assemblies 1071
Power Units 2472-2474
Rings 1068-1069
Scales 1065
Slings . . . 943, 965, 1074-1079, 1084, 1106, 1144
Stands 942
Swivel Hooks 1069-1071
Trolleys 1051-1052, 1057, 1060

HOISTS,
Air 1055
Automotive 943, 1064
Chain 1050-1058
Electric 1050-1054
Engine 943, 1064
Lever 1057-1059
Manual 1056-1059
Mobile 943, 1064
Pneumatic 1055
Ratcheting 1057-1059
Rope 1054, 1059
Scaffold 1044
Trolley 1051-1052, 1057
Wire Rope 1054, 1059

HOLDERS,
Abrasive Disc Pad 2374, 2376
Abrasive Sheet 911, 2366-2367
Badge 1970
Battery 362, 924
Beverage Cup 950, 1826
Bin 1281-1282, 1320-1321
Binder 1942
Bit 698-701, 703, 768, 775-776, 801-802
Blast Cabinet Guns & Nozzles 2402
Broom 998, 1543
Business Card 830
Can 1307, 1329
CD/DVD 1358
Cell Phone 756, 950
Certificate 1358
Clipboard Form 1382
Computer Keyboard 1321
Conveyor Brush 1117
Crimper Die 382
Deburring Blade 2401
Document 830, 950, 1358-1359, 1383
Door 1976, 1985, 2003-2004
Drill 755, 2315
Dust Cloth 1534, 1536
Dust Mask/Respirator 1758
Electrode 2416
Electromagnetic Door 1976
End Mill 2311
Evacuation Map 1926
Eyewear 1665
Face Mill 2311
Filter 1761, 1763, 1784
Flag 1908
Flare 1905-1906
Floor Machine Pad 1586
Funnel 1861
Fuse 163, 182, 185-187, 394, 929
Garbage Can Liner 1562
Glove 859-860, 1701
Grease Gun 932
Griddle Pad 1548
Hose Clamp 1307
Identification Badge 1970
Indicator 2333
Job Ticket 1383
Key 1964, 1966-1967
Label 830, 1230, 1248, 1282-1284, 1294-1295, 1933
Light Stick 1906, 1923
Magazine 1349-1350
Marker 1367, 2428
Mop 998, 1533, 1536, 1543, 2729, 2760
Notebook Computer 1343
Notepad 1355
Paper Clip 1358
Paper Towel Roll 1444
Pencil 1358
Phone 756
Plastic Bag 1407
Plier 755
Safety Tag 1939, 1950
Screwdriver Bit . . . 698-700, 703, 768, 801-802
SDS Jobsite 1942
Set Screw 387
Shell Mill 2311
Shovel 998
Sign 1230, 1372, 1527, 1908, 1915-1916, 1926, 2043
Socket 745, 755, 771, 776, 1332
Spray Gun 1624
Strip Brush 1117
Tape 1357
Tape Measure 755, 859
Tape Rule 755, 859
Test Indicator 2333
Tissue 1488
Toilet Tissue 1488-1489, 2760-2761
Tool 747, 754-756, 811, 814, 846, 859
Traffic Citation Form 1382
Traffic Cone 1911
Tubing Brush 2400
Water Bottle 1798

HOLE
Adapters, Arbor 710, 2380, 2385, 2399
Cutters 708, 740, 816, 851
Diggers 1008
Gages 2336
Plugs 2086
Punches 816, 821-822, 852-853, 862, 1360

HOLE SAW
Adapter Nuts 708
Arbor Extensions 705, 708
Arbors 708, 851
Ejector Springs 708
Extension Shafts 705, 708
Kits 706, 708, 816, 851
Mandrels 708
Pilot Drill Bits 708

HOLE SAWS 706-708, 816, 851, 2813

HOLSTERS,
2-Way Radio 2024, 2029, 2031
Camera 605
Cell Phone/Tablet 756
Drill 755
Meter 546, 548, 755, 1779
Thermometer 548, 601
Tool 755-756, 811

HOMOGENIZERS 651

HONING TOOLS 920, 2399

HOOD PROPS 916

HOODS,
Air Cleaner 3060
Aluminized 1715
Balometer 618
Chemical-Resistant 1737
Cold-Protective 1642
Disposable 1623, 1737-1738, 1770, 1775
Emergency Preparedness 1764, 1773
Escape 1764, 1773
Flame-Resistant 1707-1709, 1714, 1815
Fume 636
Heat-Protective 1709, 1714-1715, 1815
Kitchen Exhaust 2955
Laboratory Evaporator 635
Lighting Fixture 461-462
Rain 1729-1730
Range 1465, 2955
Respirator 1764-1765, 1768-1773, 1775
Splash-Resistant 1715
Vent 2949, 2955, 3103
Weather 2934

HOOK
Anchors 1792
Bolts 2020
Cutters 811, 1417
Latches 1071
Magnets 829, 2019
Rules 2335

HOOKS,
Barrel 861
Boning 1453
Bungee 1102
Cable 318, 1070-1071, 1084, 1091, 1106
Ceiling 2020
Chain 1069-1071, 1084, 1091, 2073
Clevis 1070-1071, 1073
Clothing 2019-2020, 2760-2762
Conveyor 1108
Cup 2020
Eye 1069-1071, 1084
Fall Protection 1792
Fork Truck 1177
Garden 999, 1007
Grab 961, 1070-1071
Hoist Swivel 1069-1071
Hoisting 1070-1071
J- 318, 1106, 2020
Lifting 1066, 1069-1071, 1084, 1177, 1783
Magnetic 829, 2019
Node 1453
Paint Can 1620
Pegboard 1329, 1331-1332
Pintle 958-959
Potato 999
Rescue 813, 1481, 1711
Rigging 1070-1071
S- 318, 1246, 2020, 2073
Screw-In 2020
Shelf 1246
Shoulder 2020
Shower Curtain 2746
Slatwall 1331-1332
Slip 1071, 1106
Square 2020
Storage 1329, 1331-1332, 2020
Swivel 1069-1071
Tool 1329, 1331-1332, 2516
Tow 961
Towel 2019-2020, 2760-2762
Utility 1148, 1329, 1331-1332, 2020
Winch 1069, 1084
Wire Rope 1084

HOPPER
Bins . . . 1280, 1282-1284, 1286-1289, 1301, 1457
Caster Kits 1201
Guns 889
Shelving Units 1287
Undercarriages 1457

HOPPERS 1158

HORN
Accessories 966
Strobes 1886

HORNS,
Air 966
Alarm 1885-1886, 2040, 2052
Automotive 966
Electronic 1885, 2040, 2052
Fire Alarm 1885-1886, 2040, 2052
Hazardous Location 1885-1886
Paging 2040
Resonating 1885
Warning 966, 1885-1886, 2052

HORSESHOE
Magnets 829
Shims 2055, 2181

HOSE
Adapters 722, 1013, 1565, 1572, 1575-1576, 1818, 2485-2488, 2536, 2691, 2743, 2765-2767, 2854, 3006, 3099
Bibb Vacuum Breakers 2903
Bibbs 2744, 2911-2912
Caps 1818, 2765, 2767
Carriers 405, 1016, 1092-1093, 2528
Connectors 407, 962, 1013, 2482-2485, 2522, 2530, 2612, 2764, 2806
Couplings 962, 1013, 2420, 2485, 2519-2522, 2530-2531, 2586, 2765-2767, 3006
Crimpers 918, 2483-2484, 2530, 2534, 2536, 2805
Cuffs 2612
Cutter Replacement Parts 869-870
Cutters 305, 684, 735-736, 869-871, 2618, 3010
End Closures 2764
Fastening Clips 2531, 2618
Faucets 2735, 2743-2744, 2911
Fittings 407, 962, 1818, 2482-2486, 2489, 2519-2522, 2530-2531, 2671, 2765-2767
Gaskets 1013, 2767
Halters 2530-2531
Hangers 1016, 2729
Manifolds 2424, 2461
Nozzle Adapters 2536
Nozzles . . . 1014, 1818-1819, 2461, 2743, 2909
Protectors 404-406, 1131
Quick Connectors 1013, 1521, 2491, 2519-2522
Rack Covers 1818
Racks 1016, 1817-1818
Ramps 307, 404-405, 1131
Repair Kits 1013, 2424, 2529, 2821
Safety Cables 2530-2531
Separators 2618
Swivels, Pump 2671
Swivels, Sprinkler 2764
System Components, Modular 2461
Valves 1818, 2461, 2491, 2743

HOSE ASSEMBLIES,
Air 962, 1772, 2604-2606
Aspirator 619
Chemical 2607-2608, 2842-2844
High-Pressure 382, 1594, 2481, 2484, 2606, 2842-2843
Hydraulic 382, 563, 2481, 2484
Oilfield 2607
Pneumatic 1594, 2529, 2586, 2604, 2606, 2608
Water 2606, 2634-2635

HOSE BARB FITTINGS
. . . . . 2519-2522, 2530, 2636, 2764, 2767, 2805, 2813, 2849, 2853-2854

HOSE CLAMP
Pliers 839, 918, 2534, 2805
Racks 1307

HOSE CLAMPS
. . . . . 2055, 2531-2535, 2612, 2830

HOSE KITS,
Air Conditioner 2996

HOSE REEL ACCESSORIES
. . . . . 1016, 1818, 2435, 2523-2529

HOSE REELS,
Air 400, 2435, 2523-2529
Cart 1016
Dual 2524, 2526-2527
Food Service 2525, 2529, 2743-2744, 2747-2749
Fuel 2435, 2526
Grease 937, 2523-2524, 2527
High-Pressure 2523-2524, 2527-2529
Hydraulic 2523-2525, 2527
Manual 937, 1016, 2435, 2528-2529
Motor-Driven 2527-2528
Multiposition Mount 2523-2529
Oil 936-937, 2523-2525, 2527-2529
Pneumatic 1016, 2523-2529
Polypropylene 2527
Pressure Washer 2524-2525, 2527-2529
Spring-Return 1016, 2435, 2523-2527, 2529, 2743-2744, 2747-2749
Stainless Steel 2525, 2528
Swing 1016, 1594, 1818, 2529
Wall-Mount 937, 1016, 1594, 1818, 2523-2529
Water 1016, 1818, 2523-2525, 2527-2529
Welding 2435

HOSES,
Abrasive Blasting 2402, 2608
Agricultural Fuel 2671
Agricultural Spray 1629, 2606
Air 1626, 1765, 1768-1772, 2435, 2461, 2529, 2610-2612
Air Brake 962
Air Conditioner Charging 3006
Air Test Extension 2822
Airless Paint Sprayer 1628-1629
Blower 988, 2610
Braided 1594, 2420, 2482-2485, 2529, 2586, 2605-2607, 2806, 2842-2844
Brazing 2436
Breathing Air Supply 1765, 1768-1772
Charging 3006
Chemical 1522, 1629, 2529, 2604-2608, 2635-2636, 2690, 2842-2844
Cleaning Equipment 1522, 1564-1565, 1576, 1593-1594, 2606
Clear 2610-2612
Coil 962
Coolant 918, 947, 2461
Discharge 2634-2637, 2691
Drain 1857, 2587, 2634-2636
Drain Cleaner 1593
Drench Shower 1824, 1841-1842, 1844
Ducting 2610-2612, 3099
Dust Collector 722
EPDM 2435, 2604-2606, 2608, 2635-2636, 2690, 2743, 2909
Evacuation 2636-2637, 2691, 3006
Exhaust 2606
Extension 1000, 2363, 2461, 2822, 3006
Extraction 1577, 2408
Fiberglass 2610
Fire 1817-1818, 2634
Flexible Metal 2607, 2842-2844
Food-Grade 2609, 2611
Fuel 947, 2435, 2607, 2671, 3084
Fume Exhauster 233, 2363, 2610-2612
Gas 2420, 2435, 2607, 2842-2844, 3084
Grease Gun 934
Heat Pump 3091
Herbicide 2606, 2635-2636
High-Pressure 382, 1594, 2481-2485, 2606, 2842-2843
Hot Water 1015, 1594, 2606, 2743, 2806, 2909
Hydraulic 382, 563, 2468-2469, 2481-2485
Insulating Line 1711
Jetter 1593
Lawn/Garden 1015-1016, 2606
Lead 2435, 2529
Liquid 1626, 2529, 2604-2606, 2609-2610, 2612
LP 2607, 2842-2844
Lubricant 2461
Manifold Gauge 3006
Marine 2606
Material Handling 2608, 2610-2612, 2844
Metal 2607, 2842-2844
Modular 2461
MSHA 2604-2606
Multipurpose 1629, 2529, 2604-2606
Natural Gas 2435, 2607, 2842-2844
Nylon 962, 2483
Oilfield 2607
Paint 1626, 1628-1629
Petroleum Transfer 2607
Plastic 962, 1015, 2461, 2483, 2485, 2529, 2604, 2606, 2608, 2610-2612, 2634-2636
Pneumatic 2435, 2529, 2606, 2608, 2610-2612
Pneumatic Extension 2822
Polyethylene 2485, 2608, 2635
Polyurethane 2608
Pressure Washer 1591, 1593-1594, 2606
Propane Torch 2435
PTFE 2608, 2844
Pump 2461, 2606-2607, 2634-2637, 2671, 2690-2691, 3091
PVC 1015, 1594, 2529, 2606, 2608-2610, 2612, 2634-2636
Radiator 918, 947
Refrigerant 3006, 3012, 3094
Respirator 1765, 1768-1772
Rubber 1594, 1629, 2420, 2435, 2481-2485, 2586, 2604-2608, 2610-2612, 2634, 2690, 2729, 2743, 2909
Sandblaster 2402, 2608
Sander Vacuum 722
Sewer Pipe Cleaner 1593
Shower . . . 1824, 1841-1842, 1844, 2744, 2748
Solvent 1629, 2529, 2604-2606, 2690
Spiral Wire Reinforced 2482-2483
Spray 1626, 1628-1629, 2606
Stainless Steel 2607, 2842-2844, 3091
Steam 1594, 2607
Suction 2437, 2482, 2607, 2610-2612, 2635-2637, 2691
Suction and Discharge . 2606, 2634-2637, 2691
Swimming Pool Vacuum 1481
Thermoplastic Air 2611-2612
Truck 918, 947, 2607
Urethane 2611
Vacuum 722, 1481, 1576, 2461, 2482, 2607, 2610-2612, 2634-2636
Vacuum Cleaner 990, 1564-1565, 1572, 1575-1576
Valve Adapter 3006
Ventilation 2610-2612
Vinyl 2529, 2606, 2608, 2610-2612, 2634-2637, 2691
Washdown 1594, 2606, 2743, 2909
Washer 1593-1594
Water 1015-1016, 1521, 1593-1594, 1817-1818, 2420, 2435, 2529, 2604-2606, 2634-2637, 2691, 2743, 2748-2749, 2806, 2909
Water Discharge 1817-1818, 2606, 2634-2637, 2691
Water Suction 2634-2637, 2691
Welding 2408, 2420, 2435-2436
Wet/Dry Vacuum 1564-1565, 1575-1576

HOSPITAL
Cabinets 638, 1172
Can Liners 1562
Casters 1195-1199, 1202-1214
Cleaners/Disinfectants 1509-1514, 1517, 1519, 1521-1523, 2446
Food Service Carts/Carriers 1445
Maintenance Enclosures 1122
Telephones 2036

HOSPITAL-GRADE
Cables 323
Connectors 334, 340
Inlets 330
Plugs 334, 340
Receptacles 331-333, 337, 340, 403
UPS Systems 213

HOT
Chocolate 1437
Knives 233-234, 406
Melt Adhesives 1397, 2238
Melt Coatings 2185
Plate Stirrers 646
Plates 646, 1439
Sticks 547, 1711
Surface Ignitors 3033-3034
Wire Anemometers 620-621

HOT TUB REPLACEMENT PARTS . . . 25, 2641

HOT WATER
Boilers 3089
Circulating Pumps 2657, 2659-2660, 2698
Controls 2658, 2891, 3025, 3030, 3037, 3043
Dispensers 2721, 2732
Hoses 1015, 1594, 2606, 2743, 2806, 2909
Nozzles 1014, 2743, 2909
Pressure Washers 1590, 3011
Tanks 2661, 2715, 2717
Unit Heaters 3088-3089
Vents 2908

HOTEL
Door Latches/Locks 2005
Guest Room Amenities 1433, 1438, 1474-1476, 2760
Mattresses 1470-1471
Restaurant Supplies (See Restaurant)
Room Service Carts/Carriers 1445
Safes 1968
Towels/Linens 1467-1469, 1472-1473

HOUR METERS 227-228

HOUSEKEEPING CARTS & ORGANIZERS
. . . . . 1172, 1526

HOUSINGS,
Filter 2671, 2706-2707, 2710-2711, 2896
Keypad 1979, 2051
Lighting Fixture 304-306, 429-430, 445, 461
Speaker 2039
Surface Jack 355
Temperature Control 3025, 3027
Track Lighting 430

HUB PULLERS 913-914, 3010

HUBS,
Conduit 313, 315, 321
Coupling 127-129
Disc Pad 2376
Disconnect Switch 175, 198
Fan Blade 2950
Safety Switch 175, 198

HUGGERS,
Load 1104-1106

HUMIDIFIERS 3059, 3061, 3092

HUMIDISTATS 3026, 3028, 3042

HUMIDITY
Analyzers 584, 587, 594-595, 620
Data Loggers 584, 592-595, 618, 3008
Loggers 584, 592-594, 618, 3008
Meters 571, 583-584, 587, 593-595, 600, 607, 619-621
Monitors 562, 583-584, 587, 592-595, 620, 3008
Probes 584, 595, 618
Recorders 584, 593-594, 598, 3008
Sensors 595, 3026-3027
Testers 571, 584, 587, 593-595, 619-621, 1413

HVAC
Air Compressors 2562
Air Velocity Monitors 543, 572, 619-621
Analyzers 543, 571-572, 618-621, 3010, 3012
Bearings 134-136
Combination Starters 3031
Compressors 2562, 2577, 3014
Control Transformers 205, 3033
Damper Actuators 3045
Drain Suckers 3012
Firestop Sealants 1884
Firestop Wraps 1883
Gauges 570, 574, 579, 946, 2591, 2994, 3005, 3009
Hose Clamps 2532
Linkage Kits 3043
Motor Protectors 3031
Motors 28-29, 38-64, 2658, 2998
Multibit Screwdrivers 801
Pressure Switches 570, 3046
Psychrometers 543, 594, 621
Quick-Fit Duct Branches 3098
Relays 215, 217, 3031, 3035, 3041, 3043
Replacement Parts 2968, 3008, 3017, 3037, 3045
Roof Mounting Rails 2963
Sealants 1884, 2224, 2230-2231, 2820, 3012
Service Kits 874
Shaft and Bearing Kits 2980-2984
Smoke Detectors 2051, 3029
Solder 239
Thermohygrometers 587, 595
Thermometers 537, 589, 601-602, 604
Timers 415-419, 421
Tools 758, 816, 3010-3013
Transformers 205, 3033, 3036, 3045, 3075
Vacuum Gauges 3005, 3009
Water Line Descalers 3011

HVLP PAINT SPRAYERS 1627

HYDRANT
Adapters 1818
Keys 2912
Markers 1912
Replacement Parts 2912
Wrenches 869, 2767

HYDRANTS,
Yard 2912

HYDRATION PACKS 1828

HYDRAULIC
Adapters 2485-2488, 2495, 2854
Biodegradable Oils 2455
Breathers 2495, 2576
Cable Cutters 853
Carts 1181
Coupling Replacement Parts 2489
Couplings 2468, 2481, 2485, 2489-2491

Cranes 943
Crimpers 381-382, 847, 853, 2483-2484
Diagnostic Tools 853
Dock Levelers 1128
Door Closers 1990-1993
Dust Caps and Plugs 2489-2490
Filters 947, 2492, 2495
Fittings 2481-2491, 2530, 2846, 2854
Flanges 2487
Flow Controls 2471, 2475-2477, 2913
Flow Dividers 2477
Fluid Level Gauges 2464, 2495
Fluid Test Kits 2491
Fluids 897-899, 2454-2456, 2468
Gauge Adapters 2468-2469, 2471
Gauges 579, 2468-2469, 2471, 2495
Hose Assemblies 382, 563, 2481, 2484
Hose Cabinets 1307
Hose Reels 2523-2525, 2527
Hoses 382, 563, 2468-2469, 2481-2485
Jacks 940-943, 1193, 2466, 2468
Leak Detectors 2494
Lift Carts & Tables 1181-1182
Lift Kits 1319
Lifts 942, 1032-1033, 1178-1180, 1183, 1187, 2468
Maintenance Sets 2468-2469
Motors 2474
Nut Splitters 2469
Oil Coolers 2493-2494
Oil Filters 947
Oil Reservoirs 2473, 2495
Oils 897-899, 2454-2456, 2468, 2492
Pin Pushers 914
Pipe Benders 2469
Power Units 869, 2472-2474
Presses 2355-2358, 2470
Pressure Gauges 579, 2471
Pressure Switches 289
Pullers 914, 2469
Pump and Cylinder Sets 2468-2469
Pump Programming Tools 853
Pump Replacement Parts 2466
Pumps 563, 382, 853, 946, 1193, 2466-2469, 2472, 2474-2475
Punch and Die Sets 852, 2471
Punch Drivers 852
Punches 2471
Rams 914, 2468
Repair Kits 2468-2469, 2494
Replacement Parts 2490-2491
Reservoir Tanks 2473, 2495
Sealants 905, 2224, 2820
Seals 2479, 2495
Stackers 1179-1180
Suction Strainers 2495
Test Hoses 563
Toe Jacks 942, 1193
Torque Wrenches 2472
Valve Bases 2475
Valve Bolts 2477
Valve Exercisers 869
Valve Subplates 2477
Valves 2471, 2475-2477, 2913
Vibrators 150
Wheel Dollies 944
Winches 1082
Wrenches 2472

HYDRAULIC CYLINDER
End Mounts 2480
Seal Kits 2479
Switches 2480

HYDRAULIC CYLINDERS
. . . . . 2468-2469, 2478-2480

HYDROGEN
Cyanide Detectors 1776, 1781
Detectors 622, 624
Peroxide 1512, 1521-1522
Regulators 2429
Sulfide Detectors 622-624, 1776-1781
Sulfide Sensors 1776-1780

HYDROMETERS 629, 918

HYDRONIC
Controls 3025, 3030, 3035, 3037, 3043
Expansion Tanks 2661
Heater Diffusers & Enclosures 3089-3090
Heaters 3072, 3088-3090
Heating Thermostats 3072
Manometers 2677
Pumps 2657, 2659-2660
Radiator Actuators & Vents 3037
Valves 3037, 3043

HYGIENE KITS 1649, 1824

HYGRO-THERMOMETERS
. . . . . 583, 587, 594-595

HYGROMETERS 562, 571, 583-584, 587, 593-595, 600, 607, 619-620

HYGROSTATS 3026, 3028

HYPALON RUBBER 2204

I-BEAM
Levels 882-883
Mount Air Circulators 2915-2918
Trolleys 1057, 1060-1061, 1792

I-BEAMS,
Plastic 2197

IBC (INTERMEDIATE BULK CONTAINER)
Liquid Storage Tanks 1137
Mixers 1141
Spill Control Units 1862-1863, 1867

IBUPROFEN 1830-1831, 1834

ICE
Augers 1008
Bags 1408
Bin Level Controls 1460
Bin Tops 3003
Bins 3002-3004
Chests 1300, 1826-1827
Choppers 993
Maker Filters 2703-2706, 3002-3004
Maker Supply Lines 2718
Melt Spreaders 951, 994-996
Melter Compounds 902, 994
Packs 1402
Scoops 1451, 1456-1457
Scrapers 948, 993
Shavers 1458
Water Coolers 1825-1826

ICE CREAM SCOOPS 1454

ICE MACHINE
Bins 3002-3004
Cleaners & Descalers 3003, 3011
Connectors 2718
Controls 3003
Pumps 1460, 2661-2662, 3002
Replacement Parts 1460
Stands 3003-3004
Water Filter Systems . . . 2704-2705, 3002-3004

ICE MACHINES 3002-3004

IDENTIFICATION
Badges 1362, 1970
Card Printers 1970
Labels 305, 367-368, 370-373, 574, 1362, 1379, 1406, 1522, 1931, 1933, 1939
Tag Embossers 372
Tags 1071, 1380, 1404, 1936, 1938-1939

IDENTIFIERS,
Cable 362-366, 565
Circuit Breaker 547, 564
Key 1936, 1966
Wire 362-366, 565

IDLER SHEAVES, SPROCKETS & PULLEYS
. 120-121

IEC
Contactors 168-173
Mechanical Interlocks 170
Motor Starters 160, 168-169, 171-172
Overload Relays 169-172
Relays 169, 171-172, 218
Reversing Contactors 170

IGNITION
Controls 3032-3034
Modules 3032-3034
Systems, Pilot 3032-3034, 3036
Transformers 3036
Wrenches 917

IGNITORS,
Ballast 478
Commercial Oven 3032
Gas and Oil Burner 3036
Hot Surface 3033-3034
Spark 3032-3033

IMC
Conduit 313
Fittings 315

IMMERSION
Elements 2713
Heaters 3063-3065
Suits 1810
Wells 3030

IMMOBILIZERS 1821-1822

IMPACT DRIVERS,
Cordless 665, 667-668, 672, 674, 676, 681-682, 686-687, 689-692, 694, 698
Hand 697, 773, 776-778

IMPACT GLOVES
. . . . . 1680, 1684-1685, 1693-1696

IMPACT SOCKET
Adapters 775-777, 779-781
Bit Holders 700, 703, 776
Extensions 761, 769, 774-777, 779-781
Retaining Pins 779-780
Retaining Rings 779-781
Sets 698, 773-774, 777, 953
Shanks 775-777
Universal Joints 769, 775-777, 779-780

IMPACT SOCKETS,
1/4" Drive 698, 773, 775
3/8" Drive 698, 773, 776
1/2" Drive 698, 773-774, 777-778, 953
3/4" Drive 773-774, 779
1" Drive 774, 780
1 1/2" Drive 781
2 1/2" Drive 781
Spline-Drive 781

IMPACT WRENCH BRUSHES 2397

IMPACT WRENCHES,
Air 2502-2503
Cordless 667-668, 672, 674, 676, 681-682, 686-687, 689, 691-692, 694
Electric 697
Pneumatic 2502-2503

IMPELLERS,
Mixer/Stirrer 651
Motorized 2658

IMPREGNATORS,
Stone 1533

IMPULSE
Nailer Fuel Cells 2496, 2498
Nailer Nails 2498
Nailers 669, 679, 695, 2496, 2498, 2500
Oils 2498
Sealers 1406

IN-PLANT OFFICES 1311-1312

INCANDESCENT
Dock Lights 518
Drop Lights 396, 516, 522
Hand Lamps 396, 522, 680
Headlamps 504
Lampholders 462-463, 465
Pilot Lights 244, 257
Trouble Lights 396-397, 516, 522

INCANDESCENT LAMP BASE REMOVERS
. 511

INCANDESCENT LAMPS,
3-Way 487-488
Aircraft 493-494, 499
Appliance 487, 489, 497-499
Automotive 497-503, 970, 978
Ceiling Fan 489
Clear 487-503
Colored 489, 492, 497
Decorative 487, 490-491
Emergency Lighting 424, 500
Exit Sign 498-499
Extended Service 490
Floodlight 488, 492-496, 508
Frosted 487-489, 492, 494, 496-499
Halogen 487-488, 490-496, 498, 500, 502, 514, 970
Heat 492, 501-502
Infrared 492, 501-502
Locomotive 494
Low-Voltage 246, 493-496, 499-500, 502
Medical 497
Miniature 246, 489-490, 497-503, 970, 978
Night Light 490
PAR 493-494
Pilot Light 246, 499
Quartz 495-496, 498-502
Reflector 488, 492-497, 500, 502
Rough Service 487-488, 494
Shatter-Resistant 487-489, 492, 494
Sign 498-499
Spotlight 492-496
Vibration-Resistant 489

INCANDESCENT LIGHTING,
Hazardous Location 449, 498
Landscape 458, 461, 464
Motion-Sensing 462
Portable/Task 396-397, 516, 519, 522, 680
Track 430
Vandal-Resistant 450
Vapor-Tight 449-450

INCIDENT COMMAND KITS 1905

INCLINOMETERS 882-883, 2334

INCUBATORS 638, 647

INDEX TABS 1361-1362

INDICATOR
Bases 279, 2333
Contacts 2332-2333
Holders 2333
Lamps 497-503, 975-977
Lights 241, 248, 257, 279-280, 497, 499-501, 503, 975-977, 1885, 1887
Strobe Lights 280, 1885

INDICATOR BEACONS . . . 278-280, 1885, 1887

INDICATORS,
Airflow 543, 572, 619-621, 1780, 2685, 2687, 3096
Alarm Status 2051
Blown Fuse 177-178, 186-187, 394, 929
Dial 2330-2333
Elapsed Time 228, 421, 582
Electronic Digital 884, 2331
Flow 2464, 2670, 2680, 2682-2687, 2689, 2913
Frequency 559
Humidity . . . 562, 584, 587, 592-593, 1413, 3008

Load....1065
Moisture....543, 600, 644, 885, 1413, 3013
Motor Rotation....546, 555, 566, 2342
Phase Sequence....546, 555
Temperature....559, 562, 580, 584, 587, 590, 592-593, 620, 2428, 3008
Test....884, 2331-2333
Wheel Nut....957
Wind Speed....543, 571-572, 583, 620-621
Wood Moisture....543, 600

INDOOR/OUTDOOR
Intercoms....2034, 2040
Wall Lights....451-452, 454

INDUCTION CHARGERS....1445

INFECTIOUS SUBSTANCE WASTE BAGS/ LINERS....1562

INFLATORS,
Dunnage Bag....1413
Glove....1710
Mattress....1471
Pneumatic Tent....1824
Tire....685, 955-956, 962, 2518

INFORMATION STANDS....1326, 1942

INFRARED
Calibrator Apertures....604
Calibrators....604
Camera Batteries....606, 614
Camera Cases....605
Camera Smart Phone Adapters....605, 615
Cameras....605-613, 615, 2046-2047
Faucets....2734-2736
Lenses....606, 612, 614
Sensors....454, 462, 467-470, 603, 1978
Thermometers....537-538, 542-543, 566, 587, 594-595, 601-613, 615, 620, 672, 1455
Windows....605, 609, 614-615

INFRARED HEATERS & ACCESSORIES
....3069, 3071, 3079-3082, 3087

INHALANTS,
Ammonia....1831, 1834-1835

INHIBITORS,
Corrosion....901, 906-907, 1600-1603, 1606-1608, 2428, 2438, 2445, 2450, 2453, 2460
Grass....1003
Rust....380, 901, 906-907, 922, 1519, 1600-1603, 1606-1608, 2342, 2427-2428, 2438-2439, 2445, 2458, 2702
Weed....1003

INJECTORS,
Chemical....2694
Leak Detector Dye....3009

INK
Cleaners....939, 1403
Markers....1364-1365, 1615
Pads....1363, 1403, 1930
Pens....1355, 1366
Refills....1355, 1363, 1403
Removers....910, 1517, 1519, 1613
Rollers....1403, 1450

INKS....1403

INLET
Filter Covers....2584
Filters....1593, 2492, 2567-2568, 2575-2576, 2584, 2694
Guards....1858, 2940-2941, 2980-2982, 2984-2985, 2987

INLETS,
Flanged....330, 336-338, 340
Hospital-Grade....330
Locking....336-338, 340
Marine....330, 336, 338, 341
Panel-Mount....330, 336-337
Pin and Sleeve....338, 341
Shrouded....338
Straight-Blade....330

INNER TUBES....957, 1000, 1219

INSECT
Attractants....1021
Bite Relievers....1835
Killers....1017, 1021-1023
Repellents....1022-1023, 1829
Screens....1121, 1823
Sting Relievers....1829, 1833, 1835
Traps....1017, 1021-1023

INSECTICIDE SPRAYERS
....994, 1000-1002, 1022

INSECTICIDES....1022-1023

INSERT
Bearings....136-138
Bit Adapter Sockets....703
Bit Drivers....786
Bit Holders....700-701, 768
Toolholders....2305

INSERTS,
Acetal Tubing....2849
Al201-Coated....2303
Al203-Coated....2308-2309
AlCrTiN-Coated....2308
ALOX-SN-Coated....2304, 2308
AlTiN-Coated....2308
AlTiSiN-Coated....2304
Barrel....1139
Binder....1361-1362
Bit....802
Boring....2305-2306
Brass Compression Tubing....2854-2855
Brass Tubing....2854-2855
Carbide....2301-2309
Catch Basin....1858
C-Coated....2309
Ceramic....2301-2302, 2308
Cermet....2309
Clamp-Mounted....2301-2304, 2308
Co-Coated....2309
Coupling....127-129
Cutting....2301-2306, 2309
CVD Coated....2301-2302
DLC....2309
Drilling....2301
Drum....1139
Finishing....2301-2304, 2308-2309
Grooving....2305-2306
Helical....2138-2141
Hole-Making....2301
Indexable....2301-2309
Jaw....873
Lathe....2301-2306
Locking....2139-2143
Megacoat Finish....2309
Megacoat Nano Finish....2309
Metal-Cutting....2301, 2303-2306, 2309
Milling....2307-2309
Multilayer CVD-Coated....2305-2306
NbC-Coated....2309
Nut....2136, 2142
Parting Blade....2305-2306
PCD....2301-2302, 2308-2309
Press....2142
PVD Finish....2301-2302, 2305, 2307
Roughing....2301-2304, 2308
Screw-Clamp....2308-2309
Screw-On....2301-2302, 2305-2307, 2309
Shoe....1756
Stainless Steel Tubing....962
Steel Pipe....2777
Thread....2136-2143
TiALOX-Coated....2308
TiB2-Coated....2308
TiCN-Coated....2303, 2309
TiN-Coated....2303-2304, 2308-2309
Turning....2301-2306
Umbrella....2161
Venturi....2796
Waterless Urinal....2759
WC-Coated....2309
Wire....2139-2141

INSPECTION
Camera Accessories....606, 616-617, 866
Cameras....543, 616-617, 672, 684, 866
Gloves....1669, 1671, 1697
Labels....574, 1404, 1933
Magnifiers....515
Mirrors....824
Ports....2464
Stands....1326
Tags....1404, 1844, 1938

INSTANT ADHESIVES
....1361, 2216-2218, 2225, 2228, 2237

INSTEP GUARDS....1746

INSTRUMENTATION
Pipe Fittings....2780, 2787, 2795
Tubing Fittings....2804, 2857-2860

INSTRUMENTATION VALVES,
Ball....2860
Check....2861
Needle....574, 2464, 2475, 2550-2551, 2861
Plug....2861, 2914

INSULATED
Boxes....1402
Bushings....315, 323, 2086
Clothing....685, 1713, 1718-1721, 1726, 1811
Coffee Servers....1439
Couplings....2826
Crimpers....384, 854-855
Cups/Mugs....1444
Cutters....841, 854-855, 861
Dinnerware....1445
Ferrules....386
Gloves....1676, 1683, 1687, 1700-1703, 1710
Knives....854-855
Nut Drivers....854, 856-857
Pick Mattocks....999
Pliers....384, 840-841, 854-855, 861, 924
Ratchets....854
Screwdrivers....854, 856-857, 861
Shipping Cartons/Liners....1402
Side Cutters....841, 848, 854-855, 861
Strippers....854-855
Terminals....383-386, 388-389, 2424
Tool Kits....854, 856-857, 861
Tweezers....856
Wrenches....783, 854-856, 861

INSULATING
Foam....2236, 3012
Wrap....1386, 2838

INSULATION
Adhesives....1391, 2216, 2229, 2835
Dispensers....2238
Testers....553-554, 556, 603
Tubing....2833-2838

INSULATION,
Aluminum-Clad....2835-2836
Ceramic....2837-2838
Closed-Cell....2833-2836
Duct....2834-2835, 2837-2838
Eyewash Station....1839
Fiberglass....2832, 2837-2838
Foam....2236
Open-Cell....2838
Pipe....2832-2838, 3012
Polyurethane....2236
Removable Blanket....2837-2838
Sheet....1883, 2834-2838
Spray-in-Place....2236
Tape....374-375, 1386-1387, 1391-1392, 1999, 2838, 3012, 3092
Thermal....905, 2236, 2832-2838, 3012

INSULATOR KITS,
Load Center....191

INSULATORS,
Cold-Shrinkable....376
Connector....376-378, 389
Heat-Shrinkable....376-378, 1378
Lens....2420
Nozzle....2414, 2420

INTAKE
Duct, Blower....1784-1785, 2408
Filters....1624, 2567-2568, 2575-2576
Guards....2939
Louvers....2939
Mufflers....2575-2576
Shutters....2936-2937

INTERCOM
Cables....349-350
Speakers....2038-2040, 2052

INTERCOMS....2033-2035, 2038-2040

INTERFACE
Cables....351, 357-361, 2328
Cards....214, 225
Gateways....3021

INTRINSICALLY SAFE
Instruments....536, 562-563, 569, 572, 622, 1777-1781
Transducers....580

INTRUSION SYSTEMS AND HARDWARE
....2052

INVERTER
Cables....929
Controls....209
Generators....983

INVERTERS,
Motor Speed....153-157
Power....209, 929

IODINE WIPES....1831, 1833

IP (INTERNET PROTOCOL) CAMERAS & SURVEILLANCE....2045-2046

IRON WHEELS....1214, 1217-1218

IRONING BOARDS....1475

IRONS,
Carpet Heat....891
Clothing....1475
Heat....891
Soldering....233-238, 685, 846, 874
Tire Mounting and Demounting....953-954

IRONWORKERS....2356, 2358

IRRIGATION
Cables....349
Controls....418, 2764, 3039
System Components & Tools....2751, 2764

ISOLATED GROUND RECEPTACLES
....331-333, 337

ISOLATION
Bags....1562
Flanges....2658
Transformers....206-208

ISOLATORS,
Cylindrical....1223
Floor-Mount....1221-1222, 2983, 2986
Hanger-Mount....1221
Spring....1221-1222
Vibration....1221-1223, 2983, 2986, 3099

ISOPROPYL
Alcohol....232, 634, 1829
Alcohol Bottles....654

IV (INTRAVENOUS) STANDS....1821

J

J-
Bars . . . 1191
Bends . . . 2722, 2724
Clamps . . . 836
Hook Hanger Brackets . . . 318
Hooks . . . 318, 1106, 2020

JACK
Casters . . . 960
Chains . . . 318, 1073, 2073
Foot Supports . . . 942, 944, 960
Handles . . . 960, 2466
Oils . . . 897, 899, 2455, 2468
Plates . . . 944
Posts . . . 1126
Replacement Parts . . . 960
Screws . . . 2329
Stands . . . 941-942, 2425

JACKETS,
Aluminized . . . 1715
Chemical-Protective . . . 1728-1730, 1740
Cold-Protective . . . 685, 1713, 1718-1720, 1726, 1729, 1811
Arc Flash . . . 1728, 1740
EMS (Emergency Medical Services) . . . 1811
Flame-Resistant . . . 1708, 1713, 1715-1717, 1727-1728, 1735, 1740
Flame-Retardant . . . 1715
Heat-Protective . . . 1715-1716
Heated . . . 685
High-Visibility . . . 1726-1728, 1730, 1811
Leather . . . 1716
Life Preserver . . . 1808-1810
Rain . . . 1727-1730, 1811
SAR (Search and Rescue) . . . 1811
Tactical . . . 1811
Water-Resistant . . . 1719, 1811
Welding . . . 1715-1717

JACKHAMMERS . . . 2513

JACKS,
Air Lift . . . 940-943
Audio . . . 355, 2028
Automotive . . . 940-943, 960, 1193, 2468
Axle . . . 941
Bottle . . . 941
Cable . . . 355-356, 360
Category 5e . . . 356
Category 6 . . . 356
Crane . . . 943
Data . . . 355-356
Ethernet . . . 356
Floor . . . 940-942
Forklift . . . 942
Garage . . . 940-943
HDMI (High-Definition Multimedia Interface) . . . 355-356
Hydraulic . . . 940-943, 1193, 2466, 2468
Industrial . . . 942, 960
Ladder . . . 1028
Leveling . . . 960, 1043, 1126, 1224
Network . . . 355-356
Pallet . . . 1065, 1173-1175, 1178
Pneumatic . . . 941-943
RJ-25 . . . 356
Roof . . . 2949
Screw . . . 2466
Service . . . 940-943, 960, 1193
Thermocouple . . . 230-231, 596
Toe . . . 942, 1193
Trailer . . . 960, 1126
Transmission . . . 942
Truck Service . . . 940-942
Truck Stabilizer . . . 941, 960, 1126
Voice/Data . . . 355-356, 360

JAMB SAWS . . . 886, 891

JANITOR
Cart Bags . . . 1526
Carts . . . 1526
Kits . . . 745, 1526
Sinks . . . 2725, 2729

JARS,
Laboratory . . . 653

JAW
Bolt Cutters . . . 817
Inserts . . . 873
Pincers . . . 2534, 2805
Puller Accessories . . . 914
Puller Sets . . . 912-915
Pullers . . . 912-916

JAWS,
Pressing Tool . . . 2800
Vise . . . 833, 2346

JEANS . . . 1723

JERRICANS . . . 1874

JET PUMP
Ejectors . . . 2653
Motors . . . 13, 20, 24-25
Systems . . . 2653
Water Tanks . . . 2656

JET PUMPS . . . 2653, 2701

JETTER
Ball Valves . . . 2476, 2866
Hoses . . . 1593
Nozzles . . . 1593
Valve Disablers . . . 1593

JETTERS,
Water . . . 863-864

JIB CRANES & MOUNTS . . . 1054, 1063-1064

JIG SCREWS . . . 2102

JIGS,
Drill . . . 2586
O-Ring Splicing . . . 2173

JIGSAW BLADES . . . 730

JIGSAWS,
Cordless . . . 669, 677, 683, 687, 691-692, 695

JOB COST CARDS . . . 1375

JOB TICKET HOLDERS . . . 1383

JOBSITE
Cabinets . . . 748-749, 1267, 1269, 1271-1273
Cordless Fans . . . 670, 679, 688
Lighting . . . 518-521, 670, 673, 680, 691, 3079
Radios . . . 670, 679, 685, 689, 691, 695
SDS Centers . . . 1942
Storage Boxes . . . 748-749
Temporary Power Boxes . . . 413
Temporary Power Panels . . . 412
Water Coolers . . . 1825-1826

JOHNSON BARS . . . 1191

JOINER PLATES . . . 2019

JOINERS,
Plate . . . 688

JOINT
Compounds . . . 1597, 1632, 2224, 2443
Knives . . . 808, 887-888
Markers . . . 2422
Rakers . . . 892
Sand . . . 1632
Sealants . . . 905, 1597, 1632, 1884, 2222, 2224, 2226-2227, 2230-2233, 2819-2821, 2842, 3012
Sprays . . . 1884
Tape . . . 889, 1385, 1387, 1391

JOINTERS,
Floor . . . 688
Masonry . . . 892
Woodworking . . . 688

JOINTS,
Expansion . . . 2845
Rotating Pipe . . . 2846
Socket . . . 768-769, 771-772, 775-777, 779-781

JOYSTICK OPERATORS . . . 243-244, 247, 251

JUGS,
Plastic . . . 1137, 1525, 1533
Tin-Plated Steel . . . 1137

JUMPER CABLES . . . 923

JUMPERS,
Battery . . . 927-928
Capacitor . . . 65
Terminal Block . . . 394-395
Wire . . . 3010

JUNCTION BOXES . . . 292-296, 299, 308-309, 311-312, 316, 320, 440

JUTE FABRIC . . . 2215

K

KEROSENE
Cans . . . 1874-1875
Heaters . . . 3083

KETTLE REPLACEMENT PARTS . . . 1461

KEY
Blanks . . . 1964-1965
Cabinets . . . 1967
Cards . . . 1971
Chain Flashlights . . . 524, 529, 531
Chains . . . 1964, 1966
Cutting Machines . . . 1965
Duplicators . . . 1964-1965
Float Buoys . . . 1964
Holders . . . 1964, 1966-1967
Identifiers . . . 1936, 1966
Keepers . . . 1964, 1966-1967
Lanyards . . . 1907
Lock Boxes . . . 1967
Rings . . . 814, 829, 1935, 1964, 1966
Sets, Torx . . . 805-806
Tags . . . 948, 1936, 1966

KEY STOCK . . . 2177-2178

KEYBOARD ACCESSORIES . . . 1321, 1343

KEYBOARDS . . . 1354

KEYLESS
Chucks . . . 703, 2314
Entry Batteries . . . 534

KEYLESS ACCESS
Cards . . . 1971
Control Lock Accessories . . . 1125, 1971-1972, 1974
Control Locks . . . 1971-1976, 1980
Fobs . . . 1971, 1976
Software . . . 1971

KEYPAD
Alarm Covers . . . 1979, 2053
Housings . . . 1979, 2051
Lock Devices . . . 1973, 1976

KEYPADS,
AC Drive . . . 153, 155, 157
Door Access Control . . . 1973, 1996
Intrusion System . . . 2052
Keyless Access Control . . . 1971-1972, 1976, 1979

KEYS,
Ball Hex . . . 805-807
Control . . . 1960
Door Activation Remote . . . 1973
Electromagnetic Door . . . 1973
Fold-Up Hex . . . 805-806
Fold-Up Torx . . . 806
Half-Moon . . . 2177
Hex . . . 758, 805-807, 848, 856, 861, 863, 3040
Hydrant . . . 2912
L-Shaped Hex . . . 805, 807, 856, 861, 863
Lawn Sprinkler . . . 2764
Machine . . . 2177
Meter . . . 1009, 2751, 2764
Metric Hex . . . 805-807, 856, 861
Padlock . . . 1960
Screwdriver . . . 805
Sprinkler Coupling . . . 2764
Street . . . 2751
Switch . . . 244, 276-277, 330
T-Handle Hex . . . 806-807, 856
Torx . . . 805-807
Valve Stem . . . 1009, 2751
Wall Switch . . . 330
Water Meter . . . 1009, 2751, 2764
Woodruff . . . 2177

KEYWAY BROACHES . . . 2257

KICK PLATES . . . 1998

KICKSPACE HEATERS . . . 3071, 3090

KITCHEN
Air Filters . . . 3052
Doors . . . 1121-1122
Fans . . . 2944, 2947-2948
Faucets . . . 2703, 2705, 2732-2733, 2735, 2739-2742
Mats . . . 1895, 1897, 1899
Organizers/Racks . . . 1155, 1246-1248, 1444
Sinks . . . 2730-2731
Sprayers . . . 2739-2740, 2748-2749
Towels . . . 1491
Trash Bags . . . 1560-1561
Ventilators . . . 1465, 2944, 2947-2948, 2952-2960, 2962

KNEE
Guards . . . 1746
Kickers . . . 891
Pads . . . 892, 1705, 1813
Pedal Valves . . . 2727, 2744

KNEELER BOARDS . . . 892, 1705

KNIFE
Blade Disposal Containers . . . 809
Blades . . . 809-811, 814
Cases . . . 1453
Files . . . 818-819, 2393
Grinding Wheels . . . 2388, 2391
Guards . . . 1452-1453
Racks . . . 1452
Sets . . . 810, 1452
Sharpeners . . . 813, 1006, 1452-1453, 2359, 2388, 2391, 2393
Sheaths . . . 755, 814, 1452-1453

KNIVES,
Air . . . 2582
Belt Clip Hanger . . . 812-813
Breaking . . . 1453
Cable Splicing . . . 854
Carpet . . . 808, 891
Channel . . . 1452
Cimeter . . . 1453
Clam/Oyster . . . 1453
Compact . . . 813-814
Drywall Joint . . . 808, 887-888
Drywall Taping . . . 887-889
Electrician's . . . 808
Fillet . . . 1452-1453
Fixed Blade . . . 808, 811-813, 863, 891, 1007
Folding . . . 808, 811-814
Food Service . . . 1435
Hobby . . . 234, 810
Hot . . . 233-234, 406
Hunting . . . 812-814

Insulated 854-855
Joint. 808, 887-888
Kitchen. 863, 1452-1453
Laminate Scoring. 808
Line 1453
Lineman's 854-855
Linoleum 808, 891
Locking 808, 812-814
Multiblade 813-814
Multifunction 812, 814
Net. 1453
Plumber's 2751
Pocket 808, 812-814
Precision 810
Punch. 813
Putty 861, 863, 887-889, 1620
Razor 808, 891
Rescue. 812-813
Safety 808, 810-813, 891, 1401, 1417
Scraper 814, 888, 891, 1551
Serrated. 812-814, 1452
Skinning. 854-855, 1453
Slime 1453
Sticking 1453
Survival 813
Swiss Army 814
Utility 808, 810-814, 891, 1401, 1417

KNOB
Detent Pins 2321
Locksets 1985-1987, 1989

KNOBS,
2-Point. 1123, 2323
3-Point. 2323
4-Point. 2318, 2323
5-Point. 2323
Ball. 2321, 2323-2324
Clamping 2323-2324
Control. 2324
Door. 1985-1987, 1989, 1993-1994
Fluted. 2323-2324
Hand 256, 2318, 2323-2324
Knurled 2318, 2323-2324
Palm-Grip. 2321, 2323
Push-Pull 2323-2324
Retention 2313
Shift. 2323-2324
Star-Grip 2323
T- 1123, 2321, 2323
Tapered 2324
Thermostat 3025

KNOCKOUT
Plugs 298, 315, 2086
Punch Dies. 852
Punches. 676, 816, 852-853

KRAFT
Liners. 1494
Paper 1412, 1414
Tape. 1384, 1398

L

L-
Braces 2019
Clamps. 836

LAB
Cabinets. 643
Carts 1149, 1152, 1155-1157, 1349
Chairs 1333-1335
Chemicals 232, 628, 630-631, 634
Circulators 640
Clamps. 657
Cleaners. 642
Clothing 1672, 1734-1735, 1737-1740
Coats 1735, 1737-1738
Enclosures. 636
Evaporators 635
Faucets 2735, 2739, 2743-2744
Filter Systems 661
Freezers. 637, 1463
Funnels 656
Furnaces 638
Gloves 1669-1672, 1674, 1831
Heaters 639, 1141, 3078-3079
Heating Mantles. 639
Label Tape 1931
Labels 369-370, 1931
Mailers. 643, 1402
Mixer Accessories 647-648, 651
Mixers 647-648, 651, 1141
Organizers 658
Ovens. 638
Packs. 1861
Refrigerators 637-638, 1463
Scales 644, 1425-1426, 1428-1430
Scissors. 815
Sinks 2725
Spill Control Trays 1251, 1857
Spoons. 645
Stirrers. 646, 651
Stools. 1333-1335
Tables 1399
Thermometers 585-586, 637, 639
Wipes. 661
Workstand Bases. 636

LABEL
Books. 373
Dispensers. 1395-1396, 1398, 1404, 1450
Holders 830, 1230, 1248, 1282-1284, 1294-1295, 1933
Making Kits 367, 370, 372, 1378-1379, 1927-1930
Printer Accessories 369, 372
Printers . . . 367, 370-373, 1379, 1403, 1927-1930
Tape. 370, 1379, 1406, 1450, 1931
Tape Cartridges 367-372, 1378-1379, 1928, 1930-1931
Winders 1396

LABEL MACHINE
Accessories 369, 372
Batteries 368, 1928
Battery Chargers 1928
Cartridge Labels 367-372, 1378-1379, 1928, 1930-1931
Cases. 367-368, 370, 372-373, 1927-1928
Cleaning Kits 367, 1928-1930
Inks 1403
Magnets. 367-368, 370
Power Cords 367, 372
Replacement Parts 370
Ribbons 367, 369-371, 1405, 1927-1931
Rolls. 367-372, 1379, 1927, 1929-1931
Software 373, 1927, 1929
Tags. 1931
Tools 367, 1929

LABEL MACHINES. 367, 370-373, 1379, 1403, 1450, 1927-1930

LABELS,
Address 1362, 1406
Alphabet 1933
Asbestos 1937
Bar Code 370, 1405
Biohazard. 1937
Calibration 574, 1933
Chemical 369, 1522, 1930, 1933, 1940
Cloth 369-370
Component 305, 367, 369-371, 373
Danger. 1937, 1939
Department of Transportation (D.O.T.) 1937, 1940
Electrical 225, 305, 370-373, 1928, 1937
Equipment/Container. 1937, 1941
File Folder 1361-1362, 1406
Flame-Retardant 369
Food. 1450
Globally Harmonized System (GHS). 1941
Hard Hat. 1640
Hazardous Material 1930, 1937, 1940
Hospital/Medical 1941
Identification . . . . 305, 367-368, 370-373, 574, . . . 1362, 1379, 1406, 1522, 1931, 1933, 1939
Inspection 574, 1404, 1933
Inventory 1404
Laboratory 369-370, 1931
Laser 1362
Load Center 370, 373
Lock. 1939
Lockout 1939, 1953
Magnetic 1230
Numeric. 1933, 1937
Packaging 1395, 1404-1406, 1937, 1940
Pallet Rack. 1230
Pipe 370, 1929, 1932
Printer 367-368, 370-372, 1362, 1378-1379, 1405-1406, 1931
Push-Button. 371
Reflective. 1640
Right-to-Understand 1940-1941
Safety 368, 370, 1930, 1937, 1940-1941
Secondary 1522
Self-Laminating 367-371, 373, 1928-1929, 1933, 1939-1940
Shipping 1362, 1395, 1404-1406, 1937, 1940
Symbol. 1933
Tamper-Resistant. 368, 1395
Tape. 367-372, 1378-1379, 1406, 1927-1931, 1940
Warning 369, 1937, 1939-1940
Waste. 1405, 1937
Wire Marking 305, 367-373, 1928
Write-On . . . 574, 1362, 1404, 1933, 1937, 1940

LABWARE WASHERS & DETERGENTS
. 641-642

LACING WIRE, HOOKS & WASHERS . . . 2837

LACQUER THINNERS/REMOVERS
. . . . . 1613, 2446

LADDER
Cages. 1028, 1049
Casters. 1209
Conversion Kits 1038, 1041
Jacks. 1028
Levelers. 1028, 1030
Platforms. 1040-1042, 1046
Rung Covers 1900
Safety Systems 1788
Stabilizers 1040-1041
Walkthroughs. 1049

LADDERS,
A-Frame. 1024-1028, 1030-1031
Aluminum 1024-1027, 1029-1031, 1035-1036, 1039-1042, 1048-1049
Articulating 1027-1028, 1030
Combination. 1027-1028, 1030
Crossover. 1040-1042
Dock. 1040, 1049
Dual Access 1024-1026, 1028
Electrician's. 1024-1028, 1030, 1036
Escape. 1880
Extension. 1027-1030
Fiberglass 1024-1031, 1036
Fixed 1040, 1049, 1481
Folding. 1027-1028, 1030, 1039, 1048
Lift 1180
Manhole. 1030
MRI 1026
Platform. . . 1025-1026, 1028, 1035, 1046, 1048
Rolling 1025, 1027-1028, 1034-1039, 1041-1042, 1047-1048
Roof. 1030, 1040, 1049
Safety 1025-1028, 1030, 1034-1042, 1044-1049
Stainless Steel. 1039
Steel 1031, 1034-1042, 1044, 1047-1049, 1481
Step. 1024-1028, 1030
Step Stand. 1024, 1031, 1035-1036, 1047-1048, 1350
Stock-Picking 1034-1035, 1039
Straight 1030, 1049
Swimming Pool 1481
Tank. 1049
Telescoping 1027-1028
Trestle 1028
Tripod. 1028
Truck/Trailer Access. 1044
Utility 1031, 1035-1036, 1047-1048, 1350
Warehouse. 1034-1039, 1041-1042, 1047-1049

LADLES. 1454

LAG SCREWS. 1106, 2110

LAMBSWOOL
Applicators. 1622
Dusters 1538
Refill Pads 1622

LAMINATE TRIMMERS 729, 731, 891

LAMINATING FILM & POUCHES
. . . . . 1380, 1970

LAMINATOR MACHINES. 1380

LAMP
Changers 279, 511
Crushers 511
Guards 481, 518
Modules, Pilot Light 242, 244-246
Mounts, Automotive. 2055
Recycling Kits 511-512
Safety Sleeves. 481
Shields, Abrasive Blast Cabinet 2402
Starters 465
Testers. 625
Timers 419-420

LAMPHOLDERS. 462-463, 465

LAMPS,
(See Also Lights, Lighting, etc.)
3-Way 487-488
Aircraft. 493-494, 497, 499-501, 503
Appliance. 482, 487, 489, 497-499
Audiovisual 488, 495, 501
Automotive. 493, 497-504, 967-979, 1888
Blacklight. 1021
Bug Light 1021
Ceiling Fan. 489
Circline. 485
Compact Fluorescent. 485-489, 494, 520
Damp Location. 485, 488-489, 491, 493, 495, 505-506, 508-509
Decorative 487-488, 490-492, 498, 2640
Emergency Lighting. 497, 500-501
Exit Sign. 428, 498-499
Extended Service. 490
Flashlight. 498-499, 502-503
Floodlight. 430, 486, 488, 492-496, 508
Fluorescent 482-489, 520, 3059, 3061
Germicidal 486, 3059, 3061
Halogen 487-488, 490-496, 498-502, 514, 520, 968-970
Heat. 492, 501-502
HID (High-Intensity Discharge) 495, 505-510, 519-520
High-Output Fluorescent 482-483
High-Pressure Sodium (HPS). 507-509
Incandescent. 246, 280, 487-504, 513-514, 968-970, 978
Indicator Beacon 280
Infrared 492, 501-502, 3079, 3081
LED 246, 280, 430, 480-481, 484-496, 498-509, 522, 968, 977, 979, 2640
Locomotive 494
Low-Voltage. 246, 493-496, 498-500, 502
Medical 495, 497, 513-514
Mercury Vapor 507-508
Metal Halide. 495, 505-510, 519-520
Miniature 246, 280, 497-504, 513, 970, 978
Neon Indicator 497-500, 970
Night Light. 490
PAR 492-495, 508
Pilot Light. 246, 499
PL Compact 485-486
Projection. 488, 495, 500-502
Push-Button. 242, 246, 499
Quartz 495-496, 498-502, 507-509, 3079, 3081

Reflector 430, 488, 492-497, 500, 502, 514
Rough Service 484, 487-488, 494, 510
Shatter-Resistant..... 481-484, 486-489, ... 492, 494, 505, 507, 510
Sign 498-499
Spiral 487-489, 520
Spotlight 430, 492-496, 508, 514
SSTV 488, 493, 495, 500-502
Stroboscope..... 567
Swimming Pool 494, 496
U-Bend..... 484, 1021
Ultraviolet 1021, 3059, 3061
Vehicle.....493, 497-504, 967-979, 1888
Vibration-Resistant 489

LAN
Cable Meters 362-363
Cables 348, 350, 352, 354
Furniture 353-354, 357
Stations 1343
Switches 357
Testers..... 362-363, 365, 565

LANDSCAPE
Anchor Pins/Hooks 1003, 1012
Bags..... 1562
Erosion-Control Blankets..... 1012
Fabric..... 1003
Rakes..... 999
Spikes 2111

LANDSCAPE LIGHTING,
Halogen 458, 461
Incandescent..... 461, 464
LED 458-461, 463-464
Low-Voltage..... 461, 464

LANE-MARKING
Reflectors 1904
Tape..... 1902, 1904

LANTERN BATTERIES..... 534

LANTERNS..... 530, 680

LANYARDS,
1-Leg..... 1802-1805, 2152, 2321
2-Leg..... 1802-1805
Badge 1907, 1970
Hard Hat..... 1640
Hose..... 2530-2531
Key..... 1907
Pin 2152, 2321
Positioning..... 1803-1805
Rescue..... 1786, 1806
Restraint 1804-1805
Retractable 1787, 1799-1802
Rope 1804, 1806, 1970
Shock-Absorbing..... 1802-1804, 1806
Tool 858-860, 1796-1798
Webbing..... 858, 860, 1802-1806
Wrist Strap Tool 859

LAPTOP
Locks..... 1353
Stands 1343

LASER
Alignment Tools 96
Detectors..... 881
Glasses 881
Labels 1362
Measuring Tools..... 604, 878-882
Mounts..... 881
Pointers 1353, 1628
Signs 1921
Tachometers 566
Target Cards 878, 881

LASER LEVEL ACCESSORIES..... 880-881

LATCH
Bolts..... 1993, 1996
Clamps..... 2319
Magnets..... 829-830
Protectors 1998

LATCHES,
Bathroom Stall..... 2762
Cabinet 829, 2016-2017
Cam 2016
Compression 2016
Door..... 829, 2005, 2017, 2762
Draw 2016
Gate 2016
Hoist 1071
Hood 950
Lift-and-Turn 2016
Paddle 2016
Pull..... 1994
Push-to-Close 2016
Spring 961, 1071
Twist-to-Lock..... 336
Vise-Action 2016

LATERAL FILE CABINETS/SYSTEMS
..... 1337, 1344-1345

LATEX
Caulk 905, 1884, 2230-2233
Paints.....1595-1597, 1599, 1608, 1612, 1630
Primers 1595-1596

LATHE
Files..... 819
Inserts 2301-2306
Shields..... 2363
Tool Bits..... 2301, 2303-2306
Toolholders 2305

LATHES,
Machining 2347

LAUNDRY
Bags & Hampers 1475, 1535
Carts/Trucks..... 1160-1162, 1172
Detergents..... 1516
Faucets 2741-2742
Hamper Casters..... 1195-1199, 1202-1207, ... 1209-1210, 1212-1213
Tray Pumps 2626, 2630

LAVATORY
(See Also Restroom)
Cleaners..... 1502-1504, 1510-1511, 1513, ... 1515, 1517, 1519-1523, 2446
Drains 2723-2725, 2747-2748
Fans..... 2942-2945, 2947-2948
Faucets 2733-2739, 2741-2742, 2760
Gaskets 2723
Mirrors..... 1495, 2760-2761
Replacement Parts .....2726-2727, ... 2743, 2754, 2761
Sinks 2725-2728, 2760
Stall Components 2761-2762

LAW ENFORCEMENT
Clothing..... 1811-1813
Communication Tools..... 1649
Firearm Gear 2041
Gloves 1813-1814
Protective/Tactical Gear..... 812, 1813
Surveillance Equipment..... 2041, 2048

LAWN
Aerators..... 989
Edgers 987
Faucets 2911
Fertilizers..... 1003
Flags 1907
Hoses..... 2606
Rakes..... 999
Sprayers 994, 1002
Spreaders 951, 995-996
Sprinkler Accessories & Parts..... 2764
Sprinkler Pumps .....2630, 2632-2633, ... 2646, 2693-2694
Sprinklers 1012
Sweepers & Replacement Parts 988, 990, 992, 1000

LAWN MOWER
Covers..... 986
Wheels..... 1214-1215, 1219-1220

LAWN MOWERS 986

LAYOUT
Dyes..... 2427
Fluid Removers 2427
Markers..... 884, 1614-1615, 2428
Sprays 2427
Squares..... 884
Trammels..... 884

LAZY SUSAN PALLET TURNS..... 1177

LDPE PLASTIC..... 2210

LEAD
Check Swabs..... 632
Hoses..... 2435, 2529
Security Seals 1936
Solder 239, 2618

LEADERS,
Fish Tape 848

LEADS,
Motor..... 389
Test 537, 539, 546, 548-550, 560

LEAF
Blowers & Accessories 670, 679, 688, 988
Rakes..... 999
Skimmers 1481
Sweepers..... 988, 990, 992, 1000

LEAK DETECTOR
Capsules 3009
Cartridges 3096
Dye Injectors 3009
Dyes... 633, 897, 946, 2427, 2494, 3009, 3012
Flashlights..... 531, 2427, 2494, 3009
Kits..... 2494, 3009
Sensors 3008-3009
Tip Filters..... 3008
Tips 3008

LEAK DETECTORS,
Fluorescent 2427, 2494, 3009, 3012
Gas.... 621-622, 2494, 2820, 3008-3010, 3012
Hydraulic 2494
Refrigerant..... 621-622, 946, 2494, ... 2820, 3008-3010, 3012
Tire..... 953-954
Ultrasonic..... 621, 3008
Water..... 874, 2679, 3092

LEAK DIVERTERS & HOSES..... 1857

LEAKAGE
Stop Fluids..... 897, 899, 903
Testers..... 556, 621-622, 946, 2494, ... 2820, 3008-3010, 3012

LEATHER
Adhesives .....2216-2218, 2220, ... 2225-2226, 2228
Cleaners & Protectants 909-910, 1518

LECTERNS 1337

LED FIXTURES,
Ceiling ..... 422, 424-426, 429-434, 436, ...438, 443, 445-447, 449, 451, 454-455
Cove..... 440
Display Case 440
Dock..... 518
Flat Panel..... 431, 433
Low-Bay..... 436, 438, 443, 447, 454
Machine..... 451, 516-517, 2359
Outdoor .... 424, 451-455, 457-461, 463-464, ... 518, 520-521, 2639
Pendant..... 438, 443, 449, 451
Recessed..... 429-434, 443
Troffer 431-434
Undercabinet..... 440
Underwater 2639-2640
Vapor-Tight 438, 450
Wall-Mount ..... 422-427, 436, 438, 443, ... 449, 451-455, 462, 514, 518

LED INDICATOR LAMPS..... 975

LED MAGNIFIER LIGHTS 515

LED PILOT LIGHTS 244, 246, 257

LED PORTABLE LIGHTS
.....513-516, 518-524, 526-527, 529-530, ...670, 680, 689, 754, 967-969, 971, 975

LED SAFETY LIGHTS
..... 278-280, 422-428, 526, 968-969, ... 975, 1175, 1885, 1887, 1906, 1909

LEGEND PLATES 249, 259-260, 275

LEGGINGS,
Chain Saw 1721

LEGS,
Bench..... 1254, 1316-1319
Cabinet 1267, 1305-1306, 1870
Welding Table..... 2426

LEMONADE 1437

LENS
Antifog Liquid/Cloths..... 1666
Cleaners..... 1666
Insert Holders 1655-1656, 1660, 1667
Insulators..... 2420

LENS COVERS,
Respirator 1760-1762, 1766, 1769
Welding Helmet..... 1766, 2405

LENSES,
Camera 606
Fluorescent Fixture 440
Infrared 606, 612, 614
Landscape Lighting..... 461
Laser Level 880
Magnifying..... 2340-2341
Pilot Light..... 242, 246
Rocker Switch..... 262
Safety Eyewear 1655, 1667
Thermal Imager..... 606, 612, 614
Welding 2420
Welding Magnifier 1767, 2405

LETTER
Boards..... 1369, 1372
Restorer Sticks, Tire..... 954
Stamps & Stencils..... 1934-1935
Trays 1358

LETTERS,
Card..... 1933
Letter Board..... 1372
Self-Adhesive 1527, 1933
Vinyl..... 1933

LEVEL
Controllers..... 2679, 2681
Gauges..... 581, 1140, 2681, 2912
Switch Flanges 581
Switch Paddles 581
Switches ..... 291, 581, 2620, 2628-2629, ... 2640, 2678-2679, 2681, 3046, 3092
Vials..... 883

LEVELERS,
Dock..... 1128
Flange 2425
Ladder..... 1028, 1030
Mobile 1181-1182
Pallet..... 1178, 1181-1182
Tote Box..... 1181
Wire Container..... 1181
Wire Device 317

LEVELING
Casters..... 1208-1209
Jacks..... 960, 1043, 1126, 1224
Mounts..... 880, 1222, 1224-1225
Pads..... 1223
Rods..... 881

LEVELS,
Angle . . . 883
Bench . . . 2336
Bending . . . 883
Box Beam . . . 882
Bull's-Eye . . . 883
Cross-Line . . . 880
Cross-Test . . . 883, 2336
Electrician's . . . 883
Electronic . . . 879, 882-883
Hardwood . . . 882
I-Beam . . . 882-883
Laser . . . 879-880, 882
Line . . . 883
Machinist's . . . 2336
Magnetic . . . 848, 880, 882-883, 2422
Nonconductive . . . 882
Optical . . . 880-881
Pipe . . . 880
Plumber's . . . 880
Pocket . . . 883, 2336
Precision . . . 880, 2336
Shelf . . . 1231-1236, 1241, 1243
Torpedo . . . 848, 882-883
Transit . . . 881

LEVER
Action Pumps . . . 896, 936, 2672, 2676-2677
Handles . . . 1123, 1993-1996, 2322, 2324
Hoists . . . 1057-1059
Locksets . . . 1973, 1980-1989

LEVERS,
Cam . . . 2322
Dummy Door . . . 1980, 1985
Limit Switch . . . 264-266, 268-269, 271, 274
Pry . . . 823, 861-863, 953, 999, 1191
Starter . . . 165

LEXAN,
Sheet . . . 2209

LICENSE PLATE FASTENERS . . . 2055

LID OPENERS/CLOSERS . . . 823, 862-863, 1136, 1454, 1605, 1620, 2819

LIDS,
Beverage Dispenser . . . 1439
Bin . . . 1282, 1292-1295, 1301, 1306
Bucket . . . 1136, 1547, 1621
Bulk Container . . . 1300-1301
Cardboard Box . . . 1401
Clear . . . 1450
Coffee Cup . . . 1431
Cube Truck . . . 1160
Decanter/Coffee Server . . . 1439
Dish Rack . . . 1447
Drum . . . 893, 1139-1140, 1861
Fluid Storage . . . 2461
Food Bin . . . 1292, 1301, 1447, 1451
Food Pan . . . 1449
Food Service Container . . . 1292, 1431, 1450-1451, 1456-1457
Lubricant Dispensing . . . 2461
Oil Reservoir Tank . . . 2495
Pail . . . 1136, 1456, 1547, 1621
Paint Sprayer Cup . . . 1625
Paint Storage Cup . . . 1605, 1621
Parts Storage Box . . . 1282, 1292-1294
Pour-Spout . . . 2461
Recycling Container . . . 1555-1556, 1558
Round . . . 1450
Tilt Truck . . . 1159
Tote Box . . . 1292-1295, 1297, 1301, 1456-1457
Trash Can . . . 1552, 1554-1556
Tub . . . 1292-1294, 1297, 1457

LIFE VESTS/PRESERVERS . . . 1808-1810

LIFELINE SHUTTLES . . . 1788

LIFELINES,
Safety . . . 1787-1788, 1790, 1799-1802, 1806
Self-Retracting . . . 1787-1788, 1799-1802

LIFT
Booms . . . 1176, 1180, 1183
Carts . . . 1181-1182
Clamps . . . 1061, 1065
Forks . . . 1065, 1173-1175, 1177-1178, 1181, 1183
Ladders . . . 1180
Load Platforms . . . 1180, 1183
Remote Controls . . . 1183
Replacement Parts . . . 1175, 1180
Rings . . . 1068-1069
Springs . . . 2015
Truck Brackets . . . 943
Trucks . . . 1175, 1179-1180, 1183, 1187
Wheels . . . 1183

LIFT TABLE CONTROLS . . . 1182-1183

LIFT TABLES . . . 1181-1182

LIFTERS,
Log . . . 1007
Manhole . . . 1066, 1783, 1858
Suction Cup . . . 1065

LIFTING
Belts . . . 1706
Chains . . . 943, 1072, 1074
Eye Nuts . . . 1069, 2075
Eyebolts . . . 1069, 2076-2078
Hooks . . . 1066, 1069-1071, 1084, 1177, 1783
Magnets . . . 824, 829-830, 1066-1067
Points . . . 1068-1071, 1084, 1177
Slings . . . 943, 965, 1074-1079, 1084, 1106, 1144
Wedges . . . 2469
Winches . . . 1082-1083, 1085

LIFTS,
Aerial . . . 1032-1033
Battery-Powered . . . 1032-1033, 1179, 1183
Chain . . . 943, 1183
Cleanroom . . . 1183
Counterweight . . . 1180
Cylinder . . . 1187
Drivable . . . 1032-1033
Drum . . . 1144-1146
Electric . . . 942, 1032-1033, 1179, 1182-1183
Fork . . . 1173-1175, 1178-1181, 1183
Hydraulic . . . 942, 1032-1033, 1178-1180, 1183, 1187, 2468
Low-Profile . . . 1181
Maintenance . . . 1032-1033, 1042
Material Handling . . . 1033, 1065, 1173-1174, 1178-1183
Pallet . . . 1065, 1173-1174, 1178-1181
Personnel . . . 1032-1033, 1042, 1176
Platform . . . 1032-1033, 1042, 1178, 1180, 1183
Pneumatic . . . 942, 1180
Pool . . . 1481
Portable . . . 1178-1183
Pushable . . . 1032-1033, 1042
Scissor . . . 942, 1032-1033, 1181-1182
Vacuum Cup . . . 1065

LIGATURE-RESISTANT
Bath Hardware and Fixtures . . . 1488, 2726-2727, 2745, 2760-2761
Door Hardware . . . 1984-1987, 2007, 2010, 2012, 2014
Hospital Furnishings . . . 2761

LIGHT
Carts . . . 519
Cord Reels . . . 396-397, 522
Curtains . . . 278
Dimmers . . . 465-467, 470
Engines . . . 430, 471
Meters . . . 571, 620, 625
Modules . . . 242, 244-246
Panels . . . 431, 433, 440, 461, 519
Shields, Abrasive Blast Cabinet . . . 2402
Sockets . . . 462-463, 465
Stands . . . 521
Stations, Emergency . . . 422
Sticks . . . 680, 965, 1906, 1923
Switches . . . 329-330, 333, 419, 465-470

LIGHT BARS,
Vehicle . . . 967, 974-975

LIGHT BULB
Changers . . . 279, 511
Modules . . . 242, 244-246
Recycling Kits . . . 511-512
Safety Sleeves . . . 481
Shields, Abrasive Blast Cabinet . . . 2402
Starters . . . 465
Testers . . . 625

LIGHT BULBS,
3-Way . . . 487-488
Aircraft . . . 493-494, 497, 499-501, 503, 1461
Appliance . . . 482, 487, 489, 497-499, 1461
Audiovisual . . . 488, 495, 501
Automotive . . . 497-504, 969-970, 978
Blacklight . . . 1021
Bug Light . . . 1021
Ceiling Fan . . . 489
Circline . . . 485
Compact Fluorescent . . . 485-489, 494, 520
Damp Location . . . 485, 488-489, 491, 493, 495, 505-506, 508-509
Decorative . . . 487-488, 490-492, 498, 2640
Emergency . . . 497, 500-501
Exit Sign . . . 498-499
Extended Service . . . 490
Flashlight . . . 498-499, 502-503
Floodlight . . . 430, 486, 488, 492-496, 508
Fluorescent . . . 482-489, 520, 3059, 3061
Germicidal . . . 486, 3059, 3061
Halogen . . . 487-488, 490-496, 498-502, 514, 520, 970
Heat . . . 492, 501-502
HID (High-Intensity Discharge) . . . 495, 505-510, 519-520
High-Output Fluorescent . . . 482-483
High-Pressure Sodium (HPS) . . . 507-509
Incandescent . . . 246, 280, 487-504, 513-514, 968-970, 978
Indicator Beacon . . . 280
Infrared . . . 492, 501-502, 3079, 3081
LED . . . 246, 280, 430, 480-481, 485-496, 498-509, 2640
Locomotive . . . 494
Low-Voltage . . . 246, 493-496, 498-500, 502
Medical . . . 495, 497, 513-514
Mercury Vapor . . . 507-508
Metal Halide . . . 495, 505-510, 519-520
Miniature . . . 246, 280, 497-504, 513, 970, 978
Neon Indicator . . . 498-500
Night Light . . . 490
PAR . . . 492-495, 508
Pilot . . . 246, 499
PL Compact . . . 485-486
Projection . . . 488, 495, 500-502
Push-Button . . . 242, 246
Quartz . . . 495-496, 498-502, 507-509, 3079, 3081
Reflector . . . 488, 492-497, 500, 502, 514
Rough Service . . . 487-488, 494, 510
Shatter-Resistant . . . 481-484, 486-489, 492, 494, 505, 507, 510
Sign . . . 498-499
Spiral . . . 487-489, 520
Spotlight . . . 430, 492-496, 508, 514
SSTV . . . 488, 493, 495, 500-502
Stroboscope . . . 567
Swimming Pool . . . 494, 496
U-Bend . . . 484, 1021
Ultraviolet . . . 1021, 3059, 3061
Vibration-Resistant . . . 489

LIGHT HEADS,
Dock . . . 518
Emergency . . . 423

LIGHTERS,
Butane . . . 233-234
Flint . . . 2431

LIGHTING
Contactors . . . 163
Controls . . . 158, 163, 220, 223, 414-421, 449, 465-470
Fuses . . . 177-182
Lampholders . . . 462-463, 465
Photocontrols . . . 414-416, 449, 454, 462, 469-470
Replacement Parts . . . 440, 445, 450, 461, 519
Shields . . . 452, 520
Transformers . . . 471

LIGHTING FIXTURE
Ballasts . . . 423, 471-478
Bases . . . 278, 306
Cables . . . 347, 464
Ceiling Rings . . . 308
Clamps . . . 318
Connectors . . . 430, 449
Couplings . . . 449
Extension Boxes . . . 309, 449-450
Globes . . . 449
Guards . . . 449-450, 452, 518-519, 2053
Hangers . . . 317-318
Housings . . . 304-306, 429-430, 445, 461
Junction Boxes . . . 440
LED Retrofit Kits . . . 428, 430, 432
Lenses . . . 440, 461
Light Shields . . . 452
Mounting Brackets . . . 278-279, 317-318, 452, 457-458, 517, 519
Mounting Tracks . . . 430
Photocells/Photocontrols . . . 449
Power Supplies . . . 469
Receptacle Boxes . . . 449, 462
Recycling Kits . . . 512
Reflectors . . . 430, 445, 449, 452
Retrofit Kits . . . 430, 432
Shorting Caps . . . 458
Socket Adapters . . . 280, 449
Trim . . . 429-430
Wire Guards . . . 452, 518-519, 2053

LIGHTING FIXTURES,
Area . . . 447, 450, 455-458, 518-521, 680
Automotive Interior . . . 968, 979
Bathroom . . . 2942-2943
Can . . . 429-430
Canopy . . . 450, 455
Ceiling . . . 422, 424-427, 429-439, 441-452, 454-455, 513-514, 1624
Cleanroom . . . 439
Compact Fluorescent . . . 449-450, 454
Cove . . . 440-441
Damp Location . . . 422, 424, 432-434, 436-437, 443-445, 447-449, 451, 455, 518
Decorative . . . 437, 442, 461, 463-464, 2640
Display Case . . . 440-441
Dock . . . 518
Downlight . . . 429-430
Dust-Resistant . . . 439, 449, 451-452
Emergency . . . 422-427, 460
Exit . . . 422, 425-428
Floodlight . . . 451-452, 456-462
Fluorescent . . . 435, 437, 439, 441-442, 444-445, 448-452, 454, 460, 517, 1624
Food Processing . . . 439
Fountain . . . 2640
Gymnasium . . . 439, 445-448, 451-452
Halogen . . . 422-423, 458, 461-462, 518, 521
Hazardous Location . . . 439, 449, 451-452, 460
HID (High-Intensity Discharge) . . . 445, 450, 452, 454, 458, 460-461, 478
High-Bay . . . 439, 445-448, 451-452
High-Pressure Sodium . . . 445, 449, 452, 454, 458, 460
Hose-Down . . . 439
In-Plant Office . . . 1311-1312
Incandescent . . . 422, 424, 430, 449-450, 461-464, 518
Indoor/Outdoor . . . 439, 449, 451-452, 454-455, 518, 521
Landscape . . . 458-461, 463-464
LED . . . 422-434, 436, 438, 440, 443, 445-447, 449-455, 457-464, 514, 516-518, 2359, 2640
Low-Bay . . . 436, 438, 443-445, 447, 454
Low-Voltage . . . 451, 454-455, 461, 464
Magnetic Ballast . . . 444
Marine . . . 449-450
Metal Halide . . . 445, 449-450, 452, 454, 458, 460, 518-519, 521

Motion Sensor 448, 454-455, 462
Outdoor 424, 450-464, 518, 521
Paint Spray Booth 451, 1624
Parabolic Fluorescent 435
PARholder 461-463
Parking Garage 438-439, 450, 452, 455, 457-458, 460
Pendant 438, 443, 445-446, 449-451
Pool 2639
Pulse-Start 445, 449, 452, 454, 460
Quartz 461, 464
Recessed 429-435, 437, 439, 460
Roadway 455-458
Rough Service 422, 438-439, 450, 462
Security 452-458, 462
Shop 439, 444-448, 451-452
Sports 460
Strip 436-444, 455
Track 430
Troffer 431-435, 437, 439
Undercabinet 440-442
Vandal-Resistant 439, 450, 454-455, 462
Vanity 443
Vapor-Tight 438-439, 449-450, 452, 455
Wall 422, 424-426, 436-438, 440-441, 443, 449-455, 458, 462, 513-514, 518
Warehouse 422, 438-439, 442-443, 445-448, 451-452
Waterproof 461-462, 464, 516-517, 2640
Wet Location 422-424, 433, 438-439, 445, 447, 449-464, 517, 2640
Wraparound 436-437
Xenon 441, 449, 464

LIGHTING,
Cleanroom 439
Construction 518-521, 680
Gymnasium 439, 445-448, 451-452
Hand Lamp 521-522, 754
Headlamp 528-529, 680
Healthcare 437, 439, 513-514
Inspection 451, 513-517, 524, 526, 531, 680, 2340, 2359, 3009
Jobsite 518-521, 670, 673, 680, 691, 3079
Low-Voltage 451
Outdoor 424, 450-464, 518-521, 680, 2639
Power Failure 422-427, 451
Roadway 455-458
Security 452-458, 462
Stair/Step 436, 463
Strip 436, 438, 440, 443, 455
Submersible 523-524, 526-530, 2639
Undercabinet 440-441
Underwater 2639-2640
Waterproof 516-517, 520, 2639-2640
Workbench 516, 1320-1321, 2359

LIGHTS,
Adhesive Strip 979
Barricade 1527, 1909
Bollard 463
Brake 976-978
Brooder 519
Clamp-On 515-516, 519, 2340
Cord Reel 396-397, 522
Courtesy 968, 979
Dash/Deck 975
Desk 515-516, 2340, 2359
Disinfecting 3059, 3061
Distress 449
Dock 518
Dome 968, 979
Drafting Table 515-516, 2340
Drop 396, 516, 522
Emergency/Power Failure 422, 424-427, 451
Emergency Vehicle 972-975, 1888
Flashing 278-280, 449, 967, 972-975, 1175, 1527, 1885, 1888, 1909
Forklift 969, 972-973, 1175, 1888
Gym 439, 445-448, 451-452
Halogen 422, 513-514, 520-521
Handheld 396-397, 522-527, 530, 680, 689, 754, 1906
Indicator 241, 248, 257, 279-280, 497, 499-501, 503, 975-977, 1885, 1887
Inflatable 519
LED Portable 513-516, 518-524, 526-527, 529-530, 670, 680, 689, 754, 967-969, 971, 975
LED Safety 278-280, 422-428, 526, 968-969, 975, 1175, 1885, 1887, 1906, 1909
Machine Tool 279-280, 451, 516-517, 1887, 2359
Magnetic Base 516, 518, 522
Magnifier 515, 2340
Medical Exam 437, 513-515
Metal Halide 518-521
NEMA 4X 279-280, 1885, 1888
Overhead 436, 438-439, 443, 445-448, 450-452
Pathway 464
Perimeter 975
Pilot 163, 165, 167, 240, 243-244, 247, 257, 330, 3034, 3036
Portable 396-397, 429, 513-514, 516, 518-522, 530, 670, 672, 674, 680, 689, 691, 693, 754, 967-969, 971, 2359
Reading 516, 2359
Rechargeable Stick 522
Reflector 396, 430, 493, 495-496, 514, 516, 519-520, 522
Revolving 972-974, 1175, 1888
Rope 429, 979
Safety Cone 1527
Scene 975
Shroud 461
Signaling 278-280, 972-973, 976-977, 1885-1888
Snowplow 969
Spot 396, 516, 520, 522, 524, 527, 530, 680, 689, 967-969, 971
Stackable 279-280, 1887
Step 463
String 429, 519
Strobe 279-280, 969, 972-973, 1885-1886, 1888, 2052
Tactical 528
Tape 429
Task 440-441, 451, 513-517, 520-522, 670, 672, 674, 680, 691, 693, 754, 968, 2340, 2359
Timing 920
Traffic Cone 1527
Trailer 978
Trouble 396-397, 516, 522
Vehicle Exterior 967-969, 971-973, 975-977, 1888
Vehicle Interior 968, 979
Vehicle Marker 976-978
Vehicle Spot 967-969, 971, 975
Vehicle Stop/Tail/Turn 975-978
Vehicle Warning 967, 972-975, 977, 1888
Warning 278-280, 967, 969, 972-976, 1175, 1230, 1885-1888, 1909, 2052
Work 396-397, 451, 493, 516-522, 670, 672, 674, 680, 689, 691, 693, 754, 967-969, 971, 979, 1320-1321, 2359

LIMESCALE REMOVERS . . . 910, 1503-1504, 1520-1521, 2702, 2704, 2707, 3011-3012

LIMIT CONTROLS
. . . . . 590, 3030, 3032-3035, 3040

LIMIT SWITCH
Bases 264, 268
Bodies 264-265, 268-269
Contact Blocks 264-265, 268-269
Glands 268
Heads 264-265, 268-269, 271
Levers 264-266, 268-269, 271, 274
Receptacles 264-265, 268

LIMIT SWITCHES 264-271, 276-277

LIMIT VALVES,
Electric 2871
Pneumatic 2547

LIMITERS,
Torque 153

LINE
Conditioners 205, 208
Cords, GFCI 402
Dryers 3015
Levels 883
Locators 565, 866
Splitters 355, 544
Testers, Telephone 363-365
Trimmers 987
Voltage Thermostats . . . 3019-3020, 3022-3026, 3028, 3030, 3034, 3074
Winders 892

LINE MONITORS 221, 551-552

LINE SCANNERS,
Infrared 610, 615

LINE SETS,
Air Conditioner 3094

LINE,
Chalk 884
Fish 847-849

LINEAR GAGES 2335

LINEAR MOTION
Actuators 146-147
Brake Handles 1119
Rails 1118-1119

LINEMAN'S
Knives 854-855
Pliers . . . 839, 841, 846, 848, 854-855, 861, 863
Safety Equipment 1710-1711

LINENS,
Disposable Bed 1823

LINERS,
Basket Truck 1172
Bin 1410, 1559-1562
Biohazard 1562
Boot 1757
Bump Cap 1638
Can 1556, 1559-1562
Diaper Changing Station 1495
Drum 1139
Duct 2834
Glove 1697
Hard Hat/Helmet 1640, 1642
MIG Gun 2414
Pail 1136, 1621
Paint Spray Booth 1624, 3058
Paint Tray 1621
Pressure Tank 1627
Sanitary Receptacle 1494
Shelf 1246
Spray Gun Cup 1625-1627
Truck Bed 907
Wax Paper 1494
Winter Hat 1640, 1642, 1714

LINES,
Fuel 947

LINKAGES,
Valve 3043, 3045

LINKS,
Chain Connecting 116-117, 1071, 1073, 1910
Contactor 169, 171
Damper 3045, 3101
Fuse 182
Quick 1073
Trailer Hitch Safety Cable/Chain 958
Welding 2424

LINOLEUM
Knives 808, 891
Rollers 891

LINT BRUSHES 1475

LIP BALM 1829

LIQUID
Electrical Tape 905
Flow Switches 2687
Hand Soaps 1496-1498, 1501, 2736
Line Dryers 3015
Measures 930, 1525
Transfer Pumps 679, 896, 936-937, 2630-2633, 2638-2639, 2642-2652, 2673-2677, 2690-2691, 2693-2694

LIQUID LEVEL
Gauges 581, 1140, 2495, 2681, 2912
Rods 2912
Sensors 581, 2678, 2680-2681, 3007
Switches 291, 2620, 2628-2629, 2640, 2678-2679, 2681, 3046, 3092

LIQUID-TIGHT
Conduit 321-322, 324
Electrical Connectors 315, 322, 325-326, 342, 449
Sealing Rings 322

LITERATURE SORTERS
. . . . . 1349-1350, 1372, 1383

LITMUS PAPERS 632, 2702

LITTER BAGS 950, 1000

LOAD
Analyzers 547, 551-552
Cells 1426
Chain Binders 1107
Gauges, Hydraulic 2468-2469, 2471
Genies 2574-2575
Indicators 1065
Retainers 197, 1104-1106
Rings 1069

LOAD CENTER
Bolt-on Breakers 196-197, 199-200
Covers 189, 191
Filler Plates 190-191, 198
Fuses 179-180
Ground Kits 175, 190-191, 198
Insulator Kits 191
Labels 370, 373
Lock Kits 191
Main Breakers 190-191, 196
Main Lugs 191
Mounting Bases 191, 198
Neutral Lugs 191, 198
Plug-In Breakers 188, 191, 196-197, 200, 202

LOAD CENTERS 189-191, 197

LOAD HUGGERS 1104-1106

LOADERS,
Debris 1000
Drum 1144-1146

LOADS,
Powder-Actuated Tool 2169

LOCATORS,
Angle 882-883
Buried Line/Cable 565, 866, 1009
Cable Fault 363
Metal 565, 885, 2044
Pipe 565, 866, 1009
Pitch and Slope 882-883, 2425
Split Box 565
Utility 565, 1009

LOCK
Accessories, Keyless Access Control 1125, 1971-1972, 1974
Batteries 534, 1976, 1996
Cables 961, 1961
Cutters 671, 817
Devices, Keypad 1973, 1976

Devices, Push-Button 1978
Frame Adapters 1974
Installation Tools 706
Kits, Load Center 191
Labels 1939
Lubricants 902, 2442
Mounting Kits 1976
Power Supplies 1976, 1978-1979
Washers 2055, 2087, 2092-2095, 2097
Wire 1094

LOCKDOWN
Door Locks 1980
Kits 1835

LOCKER
Back Panels 1262
Bases 1254, 1256
Tops 1254, 1256, 1262

LOCKERS,
Antimicrobial 1257, 1260
Bicycle 1482
Box 1253, 1256-1261
Bulk Storage 1262
Cell Phone 1261
Plastic 1260
See-Through 1258, 1262
Tool 742, 745
Wardrobe 1253-1262
Wire 1262

LOCKING
Boxes 1303, 1350, 1967-1968
Clamps 837-838, 2319-2320
Connectors 322, 336-340
Drawers 1320-1321
Gaskets 2206
Hasps 191, 296, 1953, 1959, 1962
Inlets 336-338, 340
Pins 2150-2152, 2321
Pliers 838-840, 843, 859
Plugs 334-340, 342
Power Cords 353
Switches 242, 244, 246-247, 255, 275, 277, 330
Thermostat Covers 3022

LOCKNUT PLIERS 839

LOCKNUTS,
Black Malleable Iron Pipe 2769
Brass Pipe 2791, 2793
Conduit 315, 320, 326, 407
Deformed Thread 2083
Flange 2083
Galvanized Malleable Iron Pipe 2769
Grounding 315
Hex 2056, 2079, 2082-2083, 2769
Jam 2082
Metric 2079, 2082-2083
Nylon 407
Nylon Cord Connector 326
Nylon Insert 2056, 2079, 2082-2083
Safety Wheel 2083
Stainless Steel Pipe 2782
Steel Pipe 2769
Top Lock 2082
Tubing 407
Washer-Attached 2083

LOCKOUT
Bags/Pouches 1948-1949
Boxes 1948-1949, 1953
Cables 1946
Hasps 296, 1949, 1953, 1962
Kits 167, 191, 296, 1948-1949, 1951-1952
Labels 1939, 1953
Plug Devices 328, 1946-1947, 1952
Signs 1918, 1920, 1924, 1951
Stations 1939, 1950-1953
Tags 1938-1939, 1949, 1951, 1953
Tool Boxes 1948-1949, 1953
Training Materials 1943
Valves 2553, 2595, 2598, 2601, 2603

LOCKOUTS,
Cable 1946-1947, 1952
Chain 1948
Circuit Breaker 191, 199, 1945-1946, 1948-1949, 1952
Cord 328, 1946-1947
Electrical Panel 191, 1945, 1948, 1952
Gas Cylinder 1947
Hoist Control 1946
Multipole 199, 1945, 1949, 1952
Padlock 191, 199, 1948-1949, 1951, 1953-1955
Plug 328, 1946-1949, 1952
Pneumatic 1946, 2553, 2595, 2598, 2601, 2603
Push-Button 1946
Round Handle 1947
Switch 298, 330, 1946
Valve 1946-1949, 1952

LOCKS,
(See Also Padlocks)
Automatic 1975-1976
Barrel 1139
Biometric 1973
Cabinet 1963
Cable 961, 1353, 1961
Cam 1317, 1963
Cam and Groove Arm 2765
Caster 1220
Combination 1960-1961
Computer/Laptop 1353
Coupling 961
Cylindrical 1985
Deadbolt 1123, 1973-1974, 1985
Door . . . 298, 1123, 1971-1974, 1980, 1985, 1995
Drawer 1317, 1963
Drum 1139-1140, 1861
Electromagnetic 1975-1976
Electronic 1971-1974, 1976, 1980
Enclosure 296, 1317, 1963
Exit Alarm 1996
Faucet 2911-2912
Floor 1220
Gate 1975
Gladhand 962
High-Security 1975-1976
Hitch 958, 961
Key Holder 1967
Keyless Access Control 1971-1976, 1980
Programmable 1971-1974, 1980
Push-Button 1971-1974, 1980
Remote Control 1976
Trailer 961
U- 1961
Vehicle Interior/Exterior 957
Wheel 957

LOCKSET CYLINDERS 1996

LOCKSETS,
ADA-Compliant 1973-1974, 1980-1988
Classroom 1980-1989
Classroom Vandal-Resistant 1973
Closet 1982, 1986, 1988
Communicating 1984
Cylindrical 1980-1986, 1989
Dormitory 1984
Entrance 1973-1974, 1980-1989
Exit 1985, 1987
Heavy-Duty 1980-1985, 1988-1989
Hospital 1984-1985, 1987
Hotel 1984
Institution 1984, 1986
Intruder 1984-1985
Keyless Entry 1973-1974
Knob 1985-1987, 1989
Lever 1973, 1980-1989
Ligature-Resistant 1984-1987
Light-Duty 1974, 1984-1986, 1989
Office 1983-1984, 1986-1987
Passage 1981-1989
Privacy 1981-1989
Push/Pull 1984-1985
Standard-Duty 1980-1983, 1985, 1989
Storeroom 1973, 1981-1989

LOCKSMITH'S HOLE SAW KITS 706

LOGGER SOFTWARE 563

LOGGERS,
Humidity 584, 592-594, 618, 3008
Power 551-552
Temperature 543, 562, 580, 584, 587, 592-594, 618, 620-621, 3008
Vibration 568, 593

LOGGING TOOLS 1007

LOGIC RELAYS 224

LOGISTIC STRAPS 1104-1106

LOOP
Calibrators 562
Clamps 2078

LOOPS,
Foot 1098

LOPPERS 1006

LOTION
Dispensers 1496, 1498, 1501, 2727-2728
Soaps 1496, 1498, 1501

LOTIONS,
Moisturizing 1498
Poison Ivy 1829

LOUDSPEAKERS
. . . . . 1885, 2022, 2037-2040, 2052

LOUPES 2340-2341

LOUVERS,
Door 2937
Electrical Enclosure 300
Evaporative Cooler 2998
Exhaust Fan 2939, 2967
Gas Unit Heater 3088
Intake Fan 2939
Plenum Heater 3076

LOW-BAY
Fluorescent Fixtures 444-445
LED Fixtures 436, 438, 443, 447, 454

LOW-FLOW
Balometers 618
Faucets 2733-2743, 2760
Shower Heads 2744-2746
Toilets 2755-2756, 2760
Urinals 2759-2760

LP GAS 2437

LUBRICANT
Containers 2461
Filters, Automotive 947
Grease 232, 899, 901, 2438, 2442-2443, 2450-2453, 2585, 2746
Hoses 2461
Misters 935
Pump Breathers 2463

LUBRICANTS,
Aerosol 899, 901-902, 906, 922, 2438-2443, 2445, 2457-2459, 3012
Air Compressor 946, 2455, 2457, 2567-2568, 3007
Air Tool 2438, 2455-2457
Airless Paint Sprayer 1628
Antiseize 901, 2441, 2443-2445
Automotive 894-901, 903, 946, 2438, 2440-2442, 2445
Bar and Chain 2441
Bearing 898-899, 901, 2438, 2443-2445, 2450, 2452-2457
Bio-Based 899, 2438, 2454, 2456-2458, 2460-2461
Biodegradable 898, 2438, 2441, 2454-2458, 2460-2461, 2568
C5A 2443-2445
Cable Pulling 849, 2438-2440
Chain and Cable 849, 2438-2442, 2444-2445, 2457
Chain Saw 2441
Compressor 898, 2454-2455, 2457, 2567-2568, 3007
Conductive 232, 2443
Cutting 873, 2351, 2438, 2457-2461
Dielectric 2438-2441, 2445
Diesel 895-897
Dry Film 899, 901, 2438, 2440-2442, 2445
Electronics 2440-2441
Engine 894-897, 900
FDA-Approved . . . 901, 2438-2442, 2444-2445, 2454-2455, 2457
Food-Grade 901, 2438-2442, 2444-2445, 2450, 2452, 2454-2459, 2568, 2779
Gear 897-898, 1594, 2438-2441, 2444-2445, 2454-2455, 2457
Graphite 2441, 2443
Gun 2438
High-Pressure 898-899, 2438-2439, 2441, 2445, 2455
High-Temperature 232, 899, 2438-2441, 2443-2445, 2450, 2454-2455, 2458
Hoist 2438-2439, 2441
Hydraulic Oil 897-899, 2454-2456, 2468, 2492
Industrial 849, 898-899, 2439-2442, 2445, 2454-2457, 2498
Lithium 899, 2450
Lock 902, 2442
Low-Temperature 899, 2438
Metal-Based 2439, 2443-2445, 2458
Moly (Molybdenum Disulfide) 899, 2439, 2441, 2443-2444
Multipurpose 898-899, 901-902, 2438-2442, 2444-2446
Nickel-Based Antiseize 2443, 2445
Non-Ozone Depleting 901, 2438-2441, 2445, 2456
Nonflammable 901, 2438-2439, 2441, 2445, 2458
NSF Rated H1 . . . . . 901, 2438-2442, 2444, 2450, 2454-2458, 2568, 2779
NSF Rated H2 . . . 899, 2438-2441, 2445, 2459
O-Ring 2173, 2438, 2450
Oil 873, 894-902, 1377, 1594, 2351, 2438-2439, 2441-2442, 2454-2460, 2468, 2492, 2658, 3007, 3012
Oil and Fluid 873, 2457-2460
Open Gear 2438-2439
Paste 2443-2445, 2457
Penetrating 901, 2438-2442, 2445
Plastic Safe 901, 2438-2441, 2445
Pneumatic Tool 898, 2456
Polyol Ester 2439
PTFE 901, 2438-2439, 2441, 2445, 2457
Pulley 901, 2438-2439, 3012
Pulling 849, 2438-2440
Pump 898, 903, 946, 1594, 2455-2457, 2581, 2585, 2658, 2690, 3007
Refrigeration 2568, 3012
Rubber 901, 2438, 2440-2441
Rust-Preventive 901, 906, 2438-2441, 2445, 2456
Shredder 1377
Silicone 901, 2438-2439, 2441-2442, 2444-2445, 2450, 2452, 2779
Spindle 2456
Spray 899, 901-902, 922, 2438-2443, 2445, 2457-2459
Stick 2443, 2457
Synthetic Machining 2458-2461
Synthetic Multipurpose 2438-2439, 2441, 2458
Threading Oil 873, 2351, 2458-2460
Tire Mounting 953
Tractor 894, 896-899
Transmission 897-898
USDA BioPreferred 894-895, 898, 2438, 2441, 2454, 2456, 2458, 2460, 2568
USDA Classified H1 . . . . . 901, 2438-2441, 2444, 2450, 2454-2458, 2568, 2779
USDA Classified H2 . . . 2438-2441, 2445, 2459
Vacuum Pump 946, 1594, 2455-2457, 2468, 2581, 2585, 3007
Valve 2452
Voice/Data Cable 849, 2440
Water Soluble 2457-2460
WD-40 . . . . . 2439, 2441-2442, 2445

Welding 2428
Wire Pulling 849, 2438-2440
Wire Rope 2438-2439, 2441

LUBRICATION
Adapters 934-935
Needle Valves 2464
Nozzles 2461
Oil Level Gauges 2464
Pumps . . . . . 931, 933-937, 2461, 2463, . . . 2647, 2672-2674, 2676-2677, 2691, 2698
Valves 937, 2461, 2465

LUBRICATORS,
Air Line 2595, 2597, 2599, 2601-2603
Air-Operated 936, 2461, 2465
Chain 2463, 2465
Electric 2463, 2465
Flow Sight 2465
Gravity 2463, 2465
Grease 2465
Manual 2465
Oiler 2463, 2465
Pump 937
Pump Oiler 935

LUG NUT WRENCHES 953

LUGGAGE
Carts and Trucks 1186
Locks 1961

LUGS,
Battery 924
Cable 191, 379-380, 392, 2424
Circuit Breaker 198, 392

LUMBAR SUPPORTS 1706

LUMBER CRAYONS 884

LUNCH TABLES 1340, 1444, 1482-1483

LURES,
Bug 1021-1022

LUTES,
Asphalt 999

LUX METERS 571, 625

M

MACHETES 812, 1007

MACHINE
Covers 1100, 1410
Dollies 1192-1193
Feet 1222, 1224-1225
Keys 2177
Movers 1189, 1192-1193
Nuts 2080
Shields 2363
Stands 1324, 1343, 2355-2356, 2359
Tables 1169, 1322-1325
Tape . . . . . 367-372, 375, ... 1378-1379, 1397, 1927-1931
Taps 2262-2274

MACHINE SCREWS,
Button-Head 2104
Cheese-Head 2099, 2102
Countersunk 2101, 2104
Flat-Head 2097, 2101, 2104
Hex-Head 2097, 2100
Metric 2097, 2099, 2101-2102
Oval-Head 2097, 2099
Pan-Head 2097-2100, 2104
Round-Head 2097-2098, 2102, 2104
Tamper-Resistant 2101, 2104
Trim-Head 2100
Truss-Head 2100, 2104

MACHINE TOOL
Lights 279-280, 451, 516-517, 1887, 2359
Power Units 2472-2474
Pumps 2346, 2638, 2691-2692, 2698
Wire (MTW) 344

MACHINE TOOLS
. . . . . 816, 2344, 2347, 2355-2362

MACHINERY
Bumpers 1129
Eyebolts 274, 2076, 2078, 2317
Guards 278, 1132-1134, 1230, 1315, 2363

MACHINES,
Bathroom Cleaning 1578
Deburring 870
Exercise 1477
Finishing 2361
Floor 719, 1578-1579, 1581-1582
Key Duplicating 1965
Label . . . . . 367, 370-373, 1379, 1403, ... 1450, 1927-1930
Laminator 1380
Metal-Forming 816, 2355-2356
Milling 2344, 2347
Numbering 1363
Pipe Cutting 869-870, 873
Pipe Threading 872-873
Shrink Fit 2310
Sign 1929
Stencil 1403
Stretch Wrap 1417
Striping 1611, 1627-1628
Tape 889, 1396, 1398
Vending 1494, 1830
Waterjet Cutting 2358

MACHINING
Air Cooling Devices 2583
Clamps . . . 834, 837-838, 2316-2318, 2322, 2346
Digital Readouts 2335
Fluids 873, 2351, 2457-2461
Lathes 2347
Microdispensers 2461
Mist-Coolant Devices 2461

MACHINIST'S
Files 818-819
Levels 2336
Squares 2334
Tool Sets 2330, 2333, 2343
Vises 831-833, 874, 2318, 2346

MAGNET COVERS 829

MAGNETIC
Ballasts 476-478
Base Lights 516, 518, 522
Card Holders 830, 1230
Clips 830
Coils 162-164, 170, 173
Contactors 162-163, 168-174, 3035
Contacts 2053
Document/Card Protectors 830
Door Holders 1976, 2003
Drill Presses 676, 740
Drive Pumps 2648-2649, 2697
Dry-Erase Sheets 830
Flashlights 523, 525, 529, 531
Grates 1116
Hooks 829, 2019
Indicator Bases 2333
Labels 1230
Levels 848, 880, 882-883, 2422
Line Relays 3035
Lock Power Supplies 1976, 1978-1979
Locks 1976
Message Boards 1358, 1367-1371
Mounts, Pegboard 1332
Nut Drivers 700-701, 804
Particle Inspection Kits 2427
Particles 2427
Pickups 824, 830, 1066
Screwdriver Bits 698-699, 801, 857
Screwdrivers 798-801, 857
Sensors 567
Separators 1066, 1116
Starters . . . . . 161-162, 164, 168-169, ... 171-172, 174
Strips 829-830, 1332, 1367, 1926
Sweepers 824, 990
Tacks 1359
Tape 829-830, 1926
Tool Holders 745, 1332, 1605
Trays 824, 830, 917
Welding Grounds 2424
Work Schedule Kits 1369

MAGNETIZER/DEMAGNETIZERS 802

MAGNETS,
Alnico 824, 829-830
Bar 830, 990
Base 829, 2019
Block 830
Ceramic 824, 829-830, 1066, 1116
Channel 829
Clip 829-830
Cobalt 829
Disc 829
Display Board 1359, 1367
Door 1976
Eyebolt 829
Foreign Object Eye 1830
Handle 829, 1066
Holding 824, 830
Hook 829, 2019
Horseshoe 829
Label Printer 367-368, 370
Latch 829-830
Lifting 824, 829-830, 1066-1067
Message Board 1367
Neodymium 829-830, 1066-1067
Pot 829-830
Rare Earth 824, 829-830, 1066-1067, 1116
Ring 829, 2043
Samarium Cobalt 829, 1066
Threaded Post 829

MAGNIFIER
Handles 2340
Heads 2340
Lights 515, 2340

MAGNIFIERS,
Handheld 1830, 2340-2341
Pocket 2340
Task Light 515, 2340

MAIL
Cart Casters . . . . . 1195, 1197-1199, ... 1202-1207, 1211
Carts 1157, 1349
Chests/Houses 1969
Slots 1349
Sorters 1349

MAILBOX PEDESTALS/POSTS 1969

MAILBOXES 1349, 1969

MAILER CARTONS 1401

MAILERS,
Bubble 1406
Hazardous Material 1836
Laboratory 643, 1402
Poly 1406

MAILROOM
Scales 644, 1379, 1427, 1429
Tables 1349, 1399
Trucks 1160-1162, 1172

MAINTENANCE KITS,
Air Compressor 2567
Air Dryer 2587, 2589
Snowblower 991
Soldering 235

MAINTENANCE SETS,
Hydraulic 2468-2469

MALLETS 827-828, 862

MANCOOLERS 2920-2921, 2923, 2998

MANDRELS,
Abrasive Disc 2374, 2382
Bore Polisher 2371, 2381
Hole Saw 708
Rotary Tool 724
Surface Conditioning 2367, 2389
Wheel 2374, 2381, 2385, 2389

MANHOLE
Barriers 1783
Ladders 1030
Lifters 1066, 1783, 1858
Vents 1784-1785
Work Shelters 1783

MANIFOLD
Adapters 3006
Blocking Discs 2543-2544
End Plates 2543-2544
Gauges 946, 2994, 3005
Mounts 2542-2543
Regulators 2542-2544, 2594
Valve Bases 2543-2545, 2549-2550
Valve Spool Kits 2546

MANIFOLDS,
Base 2549-2550
Decontamination Shower 1824
Fluid 2805, 2852
Hose 2424, 2461
Pneumatic . . . . . 2461, 2542-2545, ... 2549-2550, 2586, 2852
Vacuum Filtration 661
Valve . . . . . 2424, 2473, 2542-2545, ... 2549-2550, 2852

MANOMETERS 571-572, 619, 2677, 3010

MANUAL CHAIN HOISTS 1056-1058

MAPP
Gas 2437
Gas Torches 1003, 2433, 2436

MARBLE CLEANERS 1519

MARINE
Back Boxes 310
Ball Valves 2866
Connector Boots 337
Connectors 334-336, 338, 341
Coolers 1827
Exhaust Hoses 2606
Grease 899, 2450, 2452-2453
Hose Clamps 2533
Inlets 330, 336, 338, 341
Oils 895-896, 899
Outlets 338, 341-342
Plug Boots 337
Plugs 334, 336, 338, 341-342
Power Cords 399
Pumps . . . . . 679, 2630-2631, 2633, 2640, ... 2647-2648, 2676-2677, 2691
Radios 2027
Receptacles 338, 341-342
Sealants 905, 1900, 2232-2233
Spotlights 971
Switch Boots 262
Toggle Switches 262
Trailer Jacks 960
Vehicle Antifreeze 903
Winch Lines 1084
Winches 1085

MARKER
Crayons 1614
Holders 1367, 2428

MARKER LIGHTS,
Vehicle 976-978

MARKERS,
Annealing 2428
Ball Paint 1615
CD 1365, 1615
Conduit 373
Crayon 884, 1365, 1614

Driveway/Property 1912
Dry-Erase 1367
Electrical 305, 367, 370-371, 373
Felt-Tip 1364-1365, 1614-1615
Fluorescent 1364, 1614
High-Temperature 1614, 2428
Industrial 1365, 1615, 2428
Ink 1364-1365, 1615
Layout 884, 1614-1615, 2428
LED 529
Lumber 884, 1365, 1614-1615
Metal 1365, 1614-1615, 2428
Paint 1365, 1614
Pavement 1614, 1904
Permanent 1365, 1401, 1614-1615, 2428
Pipe 1614, 1927, 1932, 2422
Soapstone 2422, 2428
Temporary 1614-1615
UV 1614-1615
Welding 2422, 2428
Wire 368, 370-371, 373

MARKING
Chalk 884, 1610
Flags 1907
Ink 1403
Measuring Wheels 877, 1611
Paints 1609-1612
Pencils 884, 2428
Pens 1364-1365, 1614-1615
Pistols 1611
Stakes 1912
Stamps 1934-1935
Tape 1900-1904
Wands 1611

MARLIN SPIKES 862

MASKING
Film 1099, 1623-1624
Tape 1384-1386, 1388-1389, 1391

MASKS,
Cleanroom 1738, 1758
CPR (Cardiopulmonary Resuscitation) 1831, 1837
Dust 1738, 1758-1760, 1762
Particulate 1738, 1758-1760
Respirator 1758-1763
Solder 1389
Thermal 1642

MASONRY
Anchors . . . 1632, 2147, 2161-2168, 2170, 2172
Brushes 892, 1544, 1622
Coatings . . . . . 1596, 1598-1600, 1602, ... 1604, 1632, 1634
Drill Bits . . . . . 709, 711-714, 716, ... 851, 2161, 2166
Epoxy 1633
Hammer Drills . . . . . 665, 667-668, 675, ... 683, 687, 690, 693, 710, 714
Line Markers 892
Mortar 1632
Nails 2111
Repair Materials 1597, 1634
Saw Blades 719-721, 727
Saws 673, 717-718
Screws 2166-2167
Sealants . . . . . 905, 1599, 1604, 1633-1634, ... 2230-2233, 2724, 3012
Tongs 892
Tool Kits 892
Trowels 862, 892

MASTER TOOL SETS 744-745, 758, 760, 854

MAT EDGING 1893, 1897

MATCHES 3096

MATERIAL AGITATORS 889, 891, 1141, 1605, 2689

MATERIAL HANDLING
Blowers 38
Casters 1195-1214
Hoses 2608, 2610-2612, 2844
Lifts 1033, 1065, 1173-1174, 1178-1183

MATS,
Antifatigue 1048, 1890-1891, 1893-1899
Antistatic 561, 1890-1891, 1898-1899
Antivibration 1223
Bath 1472-1473
Chair 1336
Conductive 1891, 1897
Contamination Control 1892-1894, 1896, 1898-1899
Entrance 1890-1892
Ergonomic 1893-1898
Exercise 1477
Filter 301
Floor . . . . . 948, 991, 1099-1100, 1336, ... 1711, 1847, 1890-1899, 3069
Food Service 1895
Indoor 1890-1899
Interlocking 1893, 1897, 1899
Kitchen 1895, 1897, 1899
Knee 1705
Modular 1048, 1893, 1895, 1897, 1899
Nonconductive 1711, 1897-1898
Pressure-Sensitive Safety 278
Ramp Floor 1893, 1897
Rescue 1821
Rotary Cutting 814
Rubber 1711, 1890-1897, 1899
Safety 278, 1711, 1895-1898
Scraper 1890-1892
Slip-Resistant 1890-1893, 1895-1900
Sorbent 1847
Static-Dissipative 561, 1897-1899
Switch 278
Tacky 1899
Tire Traction 957
Tree 1003
Urinal/Commode 1505
Vinyl 1336, 1890, 1892-1898
Welding 1896-1897
Wet Area 991, 1890, 1893, 1897-1899
Work Platform 1048, 1895

MATTOCKS/PICKS 827, 862, 999, 1820

MATTRESS
Bags 1410
Covers 1410, 1468-1469
Encasements 1469
Inflators 1471
Pads 1468-1469, 1823

MATTRESSES,
Air 1471
Hotel 1470-1471
Prison 1471
Temporary Emergency 1471

MAULS 825

MEAL DELIVERY CARTS 1445

MEAL DELIVERY HEATING
Charger Plate Bases 1445
Induction Chargers 1445

MEASURES,
Liquid 930, 1525

MEASURING
Cans 930
Cones, O-Ring 2173
Cups 930, 1454, 1525
Magnifiers 2340
Parallels 2329
Poles 1009
Rules . . . . . 105, 848-849, 875-877, 884, ... 950, 1359, 2330, 2334-2335, 2338
Scales 1428, 2335, 2340
Scoops 1456, 1525
Spoons 1454
Tape 848-849, 875-876, 2837
Wheels 226, 567, 877, 1611

MECHANICAL
Benders 850
Connectors 387, 391-392
Dock Ramps 1128
Interlocks 169-171, 199, 249, 342
Jaw Hub Adapters 914, 3010
Jaw Pullers 912-916
Lift Tables 1181
Pencils 1364
Scales 1425, 1429, 1455, 1474, 1477
Test Plugs 2823
Valves 2542, 2546-2548, 2573

MECHANIC'S
Chain Slings 943, 1074
Creepers 945
Gloves . . . . . 1674, 1680, 1683-1685, 1690, . . . 1692-1696, 1701-1702, 1815-1816, 2405
Socket Sets . . . . . 703, 758-759, 762, 765, ... 773-774, 795, 860, 917, 919
Stethoscopes 920
Vises 831-832

MEDIA
Carts 1353
Racks, CD/DVD 1358

MEDIA,
Abrasive Blasting 2404
Evaporative Cooler 2999
Filter 1624, 2722, 3057-3058
Microbiology 663
Paint Collector 1624, 3058

MEDICAL
Certificates/Reports 963
Refrigerators 637
Storage Cabinets 1172, 1968

MEDICINAL SUPPLIES 1498, 1829-1834

MEDICINE
Cabinets 1495
Cups 1436
Vending Machines 1830

MEGAPHONES 2037-2038

MEGOHMMETERS 553-554, 556

MEMBRANES,
Reverse Osmosis (RO) 2702

MEMORY CARDS,
Flash 1354
Relay 224

MENDING PLATES 2019

MERCURY
Displacement Contactors 220
Disposal Kits 511-512
Vapor Lamps 507-508

MESH,
Wire 2190, 2192

MESSAGE
Board Magnets 1367
Stamps 1363

MESSAGE BOARDS,
Cork 1370, 1372-1373
Dry-Erase 1337, 1352, 1358, 1367-1371
Electronic 2022, 2050
In/Out Status 1370
Magnetic 1358, 1367-1371
Rubber Tack 1372
Vinyl 1373

METAL
Adhesives . . . . 17, 905, 1020, 1361, 2216-2218, ... 2220-2233, 2237-2238, 2724, ... 2819-2820, 2834, 2842, 3012
Bonding Tape 1391
Cleaners . . . . . 232, 642, 901, 908-910, 922, ... 938-939, 1510, 1518-1519, 2446, 2963
Forming Machines 816, 2355-2356, 2358
Inspection Paints 2427
Markers 1365, 1614-1615, 2428
Paints/Primers . . . . . 906-907, 1595-1602, ... 1607-1609, 2223
Punches . . . . . 821-822, 852-853, 2337, ... 2356, 2358, 2425, 3010
Repair Patches 2220

METAL-CUTTING
Fluids 873, 2351, 2457-2460
Forming Machines 2355
Inserts 2301, 2303-2306, 2309
Shears . . . . . 108, 670, 678, 688, 726, ... 815-816, 861, 2356
Snips 816, 863
Toolholders 2305

METAL-DETECTABLE TOOLS 1456-1457

METAL DETECTORS 565, 885, 2044

METAL HALIDE
Ballasts 477-478
Lamps 495, 505-510, 519-520
Work Lights 445, 519-521

METATARSAL GUARDS 1746

METER
Alligator Clips 549-550, 1779
Batteries 362, 533, 557-558, 629, 2683
Binding Posts 561
BNC Adapters 561
Calibration Kits 1778
Calibration Sets, Hardness 2341
Calibrators, Sound Level 624
Cases . . . . . 362, 536-537, 539, 546, 548-549, ... 557, 565, 604, 625, 1304, 1779
Covers 225
Current Probes 540-541, 558
Fuses 548
Holsters 546, 548, 755, 1779
Hook Clips 549
Keys 1009, 2751, 2764
Line Splitters 544
Magnetic Sensors 567
Noise Calibrators 624
Offsets 320
PC Wireless Adapters 536
Power Cords 362, 546
Pressure Sensors 571
Pressure/Vacuum Modules 548
Probes . . . . . 537, 540-541, 546, 548-550, ... 557-558, 595-597, 604, 619, 630
Proximity Sensors 567
Safety Testers 546
Sensors 557, 567
Shunts 560
Software 536
Stands 571
Temperature Probes . . . 537, 548, 596-597, 604
Test Clips 537, 546, 549-550
Test Leads . . . . . 537, 539, ... 546, 548-550, 558, 560
Thermocouple Modules 548
Verifiers 546

METERS,
(See Also Testers)
Air Balancer 618
Air Quality 543, 584, 593, 617-619
Air Velocity 543, 571-572, 583, 619-621
Ammeter . . . 225, 536-544, 546-547, 551-552, ... 556, 558-559, 562, 607
Analog Multimeter 539
Anemometer 543, 571-572, 583, 620-621
Balometer 618
Bearing 568
Bench 558, 629
Bench-Type Multimeter 558
Cable Length 565
Cable Tracer 362-365, 547, 564-565
Capacitance 536-540, 543-544, 558
Carbon Dioxide (CO_2) . . . 543, 584, 593, 617-619

Carbon Monoxide (CO) 617-619
Chlorine 627, 630-631
Circuit Tracer 564, 921
Clamp-On 537, 540-544, 546, 551-552, 555, 562
Combustion 623
Conductivity 627-629
Continuity 364, 536-546, 551-552, 556, 558
Current 225-226, 536-544, 546-547, 551-552, 556, 558-559, 562, 607
Current Calibrator 562
Data Logging 543, 551, 556, 587, 600, 620-621
DC Power Supply 560
Dew Point 587, 594-595, 600, 620
Dial Temperature 584-585, 588
Differential Pressure 570, 572, 619
Digital Multimeter 536-544, 551, 556, 558, 562, 607, 620
Digital Timer 228, 582
Digital Torque 568
Dissolved Oxygen 627-628
Distance 537, 604, 878, 880
Earth/Ground Resistance 540, 555, 557
Elapsed Time 228, 582
Energy 547, 551
Fiber-Optic 363
Flow . . . 555, 570, 2429, 2670, 2680, 2682-2687
Force 568
Fork-Type Digital 544, 546
Frequency 96, 536-544, 551, 556, 558-559
Gas Analyzer 543, 617-619
Gas Pressure 571-572
GFCI Testing 547
Grease 937
Hardness 2341-2342
Heat Index 583, 595, 620
Humidity 571, 583-584, 587, 593-595, 600, 607, 619-621
Hygrometer . . . 583-584, 587, 594-595, 619-620
Infrared Temperature 537-538, 587, 595, 601-605, 610-611, 615, 672, 1455
Insulation 553-554, 556, 603
LAN 362-363
Leak Detector 621-622, 946, 3008
Light 571, 620, 625
Lube 937, 2682
LUX 571, 625
Manometer 571-572, 619, 3010
Megohmmeter 553-554, 556
Micro-Ohmmeter 553
Micromanometer 572, 619
Milliohm 553
Millivolt 225
Moisture 543, 600, 607
Motor Rotation 546, 555, 566, 2342
Oil 937, 2682
ORP 627-628
Oscilloscope 558
Oval Gear 2682
Panel 225-228, 421, 559, 570, 590, 603
Percent Load 559
pH 627-630, 2462
Phase Rotation 546, 555
Power 225, 363, 536-539, 541-542, 544, 547, 551-552, 559, 562, 607
Pressure 570, 572-573, 580, 619, 2471, 2602, 2677, 3010
Probe 537, 620
Process 159, 225-226, 229, 421, 559, 562, 570, 590, 603, 639
Pulse 559, 2684
Receptacle Testing 547
Refractometer 626, 2462, 3012
Refrigerant Charging 3007
Relative Humidity 571, 583-584, 587, 593-595, 619-621
Remote Temperature 587-588, 594, 597
Resistance 536-544, 546, 551, 553, 556, 558, 562, 607, 628
RTD Thermometer 225, 597
Salinity 627-628
Scaling 559
Soil Moisture 600
Sound Level 539, 624
Static Grounding System 561
Strain Gage 225
Stroboscope 567
Superheating/Subcooling 3009
Tachometer 159, 226, 559, 566-567, 2342
TDS (Total Dissolved Solids) 627-628
Temperature 225, 537-540, 543-544, 558-559, 571, 583-588, 590-595, 597, 600-613, 615, 619-621, 627-629
Thermocouple Calibrator 562
Thermohygrometer 571, 583, 587, 594-595, 619
Turbidity 631
Turbine 2682-2684
Vibration 557, 568
Viscosity 651
Voltage Detector 536-538, 540, 544-547, 551-552, 554, 1711
Voltage Hot Stick 547
Voltmeter 225-226, 536-547, 551-552, 556, 558-559, 562, 607
Water Flow 2682, 2684-2685, 2687
Water Quality 627-629, 631, 2462
Watt 542, 547, 551-552
Wind Speed Indicating 543, 571-572, 583, 620-621
Wire Tracing 362-365, 547, 564-565
Wood Moisture 543, 600

METHANE
Detectors 622, 624, 1777, 1781, 3010
Sensors 1776-1777

METRIC
Bearings 140-143
Dowel Pins 2153
Eyebolts 2076
Key Stock 2178
Motors 21
Nuts 2055-2056, 2075, 2079-2085
Screws 2055-2056, 2065-2068, 2097, 2099, 2101-2102, 2112, 2116-2118, 2121, 2123-2125, 2127-2128
Seals 2176

MEZZANINE GATES & RAILINGS 1312-1313

MICE,
Computer 1354
Service Tracing 565

MICROBIOLOGY CULTURE MEDIA 663

MICROMETER
Cases 548
Heads 2327
Stands 2328
Torque Wrenches 783-784, 859, 3010

MICROMETERS 884, 2327-2330

MICROPHONE CABLES 350

MICROPHONES 2025, 2027-2033, 2038

MICROSCOPE ACCESSORIES 643

MICROSCOPES 643, 2340

MICROTORCHES 233-234, 2436

MICROWAVE
Ovens 1442, 1463
Popcorn 1441

MIDGET FUSES 178-180, 183, 185-186

MIG
Welders 2412, 2416, 2421
Welding Wire 2415, 2419

MIG GUN ACCESSORIES 2414

MILITARY
Communication Tools 2027
Firearm Gear 2041
Gloves 1813-1814
Surveillance Equipment 2041
Tactical Gear 527, 812, 1828, 2041

MILK CRATES 1294-1295, 1298

MILLING
Clamps 2316, 2346
Collets 729, 2312, 2346
Cutters 2281, 2283-2284, 2289-2290, 2293-2294, 2305
Inserts 2307-2309
Kits 2346
Machines 2344, 2347
Table Clamp Kits 2316
Toolholders 2346
Vises 833, 2346

MILLS,
Thread 2277-2279

MINI SPLIT
Air Conditioners 2994-2995
Heat Pumps 2994-2995

MIRROR ADHESIVES 905

MIRRORS,
Automotive 948, 1913
Bathroom 1495, 2760-2761
Convex 948, 1913
Dome 1914
Forklift 1175, 1913
Inspection 824
Safety/Security . . . 1495, 1913-1914, 2760-2761

MIST COOLANT SYSTEMS 2461

MISTERS,
Air Cooling 2915-2917, 2921
Irrigation 2764
Lubricant 935
Metal-Cutting Coolant 2461

MITER SAW
Blades 730, 734-735
Guides 724
Protractors 884

MITER SAWS . . . 666, 669, 677, 688, 732, 2349

MITTENS 1702-1703

MITTS,
Cleaning 911, 1538
Drain Cleaner 865
Oven 1703
Painter's 1620

MIXER
Blades/Paddles 889, 891, 893, 1605
Propellers 1141
Replacement Parts 1461

MIXERS,
Air-Powered 1141
Concrete/Mortar 891, 893
Coolant 2462
Drum 891, 893, 1141, 1605, 2689
Food 893
Heating 2433-2434
IBC (Intermediate Bulk Container) 1141
Laboratory 647-648, 651, 1141
Mud 675, 889, 891, 1605
Paint . . . 675, 889, 891, 1141, 1605, 1620, 2689
Proportional Gas 2432
Sound 2040
Tank 891, 1141, 1605, 2689
Welding Tip 2433-2434

MIXING
Cups 1621
Nozzles 1632, 2172, 2219
Paddles 889, 891, 893, 1456-1457, 1605
Propellers 651, 1141
Spoons 1454
Valve Repair Kits 2747, 2909
Valves 1844, 2727, 2745, 2901, 2908-2909, 3043

MOBILE
Air Circulators 2915, 2920-2921, 2923
Bins 747, 1280, 1287, 1289, 1451
Desks 1169, 1327
Fans 2920-2921, 2923, 2998
Pegboards 998, 1169, 1330
Power Supplies 983
Roll Files 1347
Scaffolds 1043-1044
Shelving 1149, 1155-1156, 1172, 1285, 1348, 1451
Tilters 1178
Wire Containers 1299
Work Centers 749, 1149, 1169-1170, 1263
Work Platforms 1032-1033, 1042-1046, 1049
Workbenches 749, 886, 1149-1150, 1169-1170, 1263

MODULAR
Hose System Components 2461
In-Plant Offices 1311-1312
Platform Components 1040-1041
Platforms 1048
Plug Crimpers 365
Shelving 1244, 1346, 1451
Stacking Racks 1239-1240
Storage Cabinets 1170, 1263-1265, 1276
Telephone Jack Blanks 356
Telephone Line Tester Adapters 364-365
Telephone Plugs 355
Workbench Components 1170, 1263-1265, 1306, 1316-1321
Workbenches 1318

MODULAR FRL
Connectors 2595, 2598, 2601
Drains 2593
End Blocks 2598
Lockout Valves 2595, 2601
Manifold Blocks 2595
Mounting Brackets 2595, 2598
Pipe Adapters 2595, 2602

MODULES,
Analog Output 224-225, 2686
Communications 214, 224-225, 355-356
Data Acquisition System 584
Flowmeter 2683, 2686
Ignition 3032-3034
Lamp 242, 244-246
Pressure 563
Pressure/Vacuum 548
Push-Button 162-163, 174, 240, 242-249, 251, 253-254, 256-257
Relay 169, 216, 218-219, 224-225, 278, 415, 1881
Safety Control Resource 219, 278
Thermocouple 548
Voltage Suppression 163

MOISTURE
Displacers 2438, 2440-2441
Indicator Probes 595
Indicators 543, 600, 644, 885, 1413, 3013
Meters 543, 600, 607

MOISTURIZERS,
Body 1498

MOLD
Cleaners 1503-1504, 1519
Release Agents 2439, 2445

MOLDED-CASE CIRCUIT BREAKERS 189, 192, 196-201

MOLY LUBE,
Aerosol 2439, 2441, 2457
Paste 2443

MONITOR
Arms 1320, 1343
Cleaners 232
Mounts 1343, 2022-2023
Stands 1321

MONITORS,
3-Phase 221, 3031
Air Quality 584, 617, 624, 1771, 1776-1781
Air Velocity 543, 571-572, 583, 619-621
Carbon Monoxide (CO) 617, 1771, 1777, 1882
Compressor Oil 2564
Computer 2050
Dew Point 587, 594-595, 620
Humidity 562, 583-584, 587, 592-595, 620, 3008
HVAC Motor Control 3031
Interactive 2022, 2050
Line 221, 551-552
Load 551-552
Noise 624
Power 551-552
Single-Phase 3031
Temperature 537, 543, 562, 580, 584-587, 590-595, 597, 600, 610, 615, 620-621, 3008, 3040, 3042
Tire Pressure 955
Video 866, 2022, 2050
Video Surveillance 2045, 2050
Voltage 536-538, 544, 551-552, 3031
Wood Moisture 543, 600

MONKEY WRENCHES 862, 867

MONOCULARS 2041

MONOPODS 2041

MOP
Buckets . . . 1136, 1528-1529, 1534, 1546-1547
Covers 1535
Frames 1532-1537
Handles 908, 1528, 1532-1534, 1536-1537
Heads 1528, 1530-1537
Holders . . . 998, 1533, 1536, 1543, 2729, 2760
Sink Faucets 2739, 2741-2742
Sinks 2729
Treatments 1536
Wringers 1528-1529, 1534

MOPS 1524, 1528, 1530-1538

MORTAR
Application Tools 892
Mixers & Stands 893
Mixing Hoes 862, 892

MORTAR,
Firestop 1883
Masonry 1632
Patching 1631, 1633

MOSQUITO PEST CONTROL 1022-1023

MOTION SENSOR
Alarms 2053
Covers 2053
Lights 448, 455, 462
Switches 462, 467-470

MOTION SENSORS 462, 467-470, 1978

MOTOR
AC Power Supplies 158
Adapters 3045
Alarm Panels 2655
Ball Bearings 140-141
Bases 95
Brackets 121
Brakes 51, 95
Brushes 80-84, 86
Capacitors 65-66
Clutches 95
Contactors 163, 168-169, 171-173, 220
Disconnects 154, 160, 167, 389
Drives 27, 153-159
Fan Blades 2950
Fuses 177-180, 182-185, 949
Heaters 162, 165-166, 174
Lead Splice Kits 376, 378
Leads 389
Malfunction Detectors 174
Oils 894-898, 900
Overload Protection 160-174, 182, 189, 216, 219-220, 224
Protectors 154, 167, 172, 189, 196, 3031
Rainshields 51
Rotation Meters 546, 555, 566, 2342
RPM Testers 159, 566-567, 2342
Speed Controls 27, 153-159
Switches 162-163, 165, 167, 174, 259-260, 273, 3045
Vibration Switches 174
Weathershields 51

MOTOR CONTROL
Cables 155, 345, 348
Connection Kits 155
Keypads 155
Panels 2655
Software 155
Switches . . . 160-165, 167-169, 171, 174, 217, .219-220, 250, 259-260, 275, 287

MOTOR CONTROLS
. . . . . 27, 153-165, 167-174, 215, 217, .220-221, 250, 259, 275, 287, 3035

MOTOR MOUNTING
Bases 95
Rings 2658

MOTOR MOUNTINGS 95, 121

MOTOR STARTER
Alarms 174
Circuit Breakers 189
Coils 162-164, 170, 173
Contact Blocks 162-163, 165, 170-173, 248
Contactors 173-174
Contacts 160, 163, 165, 169-173, 218, 248
Enclosures 163, 170, 173
Fuse Holders 163
Fuses 177-178, 180, 183-184
Handle Guards 167
Heaters 162, 165-166, 174
Overload Relays 161-164, 168-172
Pilot Lights 163, 165
Push Buttons 162-163, 174, 243, 250, 275
Resets 163, 169
Switches 160, 162-163, 165, 167, 174, 250, 275, 287
Thermal Units 162, 165-166, 174

MOTOR STARTERS,
Air Compressor 165, 167
Combination 160-161, 164
Definite Purpose 165, 174
Disconnect-Type 160
Enclosed 153, 160-161, 164-165, 168-169, 171, 174
Fractional 165
IEC Combination 160
IEC Magnetic 160, 168-169, 171-172
IEC Manual 168, 172
IEC Self-Protected 160
Magnetic 160-162, 164, 168-169, 171-172, 174
Manual 165, 167, 172
Nonreversing 160-162, 164-165, 168-169, 171-172, 174
Open 161-162, 164-165, 168-169, 171-172, 174
Reversing 161-162, 164, 168-169, 171-172
Self-Protected 160-162, 164-165, 167
Soft-Start 153
Solid State Overload 161, 164

MOTORS,
1-Phase Belt-Drive 8, 10-11, 35, 56-57, 61-64
1-Phase Direct-Drive 31-32, 34-35, 44, 47-50, 52, 56-58, 61, 63
1-Phase Farm-Duty 34-35
1-Phase General Purpose 8-14, 19, 36, 61, 63-64
1-Phase HVAC 28, 38-54, 56-64, 2998
1-Phase Pump-Duty 8-13, 23-26, 28, 56, 60, 64, 79, 2654
1-Phase Washdown 31-32
2-Shaft 36, 38, 41-42, 44-47
2-Speed Capacitor-Start 10, 64
2-Speed PSC 44, 50-51, 56, 58
2-Speed Split-Phase 8-9, 56, 61-63
2-Speed Three-Phase 64
3-Phase Belt-Drive 57
3-Phase Direct-Drive 35, 55, 58
3-Phase Farm-Duty 34-35
3-Phase General Purpose . . . 11, 14-21, 28, 64
3-Phase Hazardous Location 29
3-Phase HVAC 29, 54-55, 57, 60, 64
3-Phase Premium Efficiency 14-21, 23-24, 28-31
3-Phase Pump-Duty 14-25, 29, 31, 60, 2654
3-Phase Washdown 31-33
3-Speed PSC 44-45, 50, 57
3-Speed Shaded Pole 57
3.3 Diameter 40-42, 60
4-Speed PSC 44-45
4.4 Diameter 43, 45, 58
5-Speed PSC 44
277 Volt 45-46, 50
AC/DC 36-37
Adjustable-Speed 35
Agitator 61
Agricultural Fan 28-29, 34-35, 56
Air Circulator 47, 49, 56-58, 61-64
Air Compressor 36
Air Conditioner 42, 44-56, 59
Appliance/Tool 36-37, 64
Auger-Drive 34, 2474
Belt-Drive . . . . . 10-11, 13-16, 19, 35, .46, 56-57, 61-64, 2998
Beverage 26
Beverage Machine 26, 39-40, 47, 61
Blower 8, 27, 35-36, 38, 40-57, 59-64
Brushless 39-40, 47-48
C-Face . . . 11-14, 18-25, 27-29, 31-34, 36, 61, 64
C-Frame 29, 38
Capacitor-Start Farm-Duty 34-35
Capacitor-Start General Purpose 9-14, 19, 64
Capacitor-Start HVAC 28, 36, 56-57, 59-60, 63-64
Capacitor-Start Pump-Duty 9-13, 23-26, 28, 56, 60, 64
Capacitor-Start Washdown 31-32
Car Wash 31, 33, 37, 2474
Carbonator Pump 26
Centrifugal Pump 11, 13-24, 27-28
Circulator Pump 60, 2658
Close-Coupled Pump 22-23
Combustion Blower 60
Compressor 36, 42
Condenser Fan 39, 44, 47, 49, 51-55, 63-64
Conveyor 8-9, 11-17, 19-21, 27-28, 31-35, 2474, 2577
Cooling Tower 30
Coring Drill 716
Crop-Dryer 34
Damper 3044-3045, 3100
Direct Current (DC) 27, 33, 39-40, 47-48, 2493
Direct-Drive 13, 19-20, 35, 40, 44-50, 52, 55-58, 61, 63-64
Draft Booster 60
EC 39-40, 47-48, 2954, 2957
Energy Efficient 14-21, 23, 28, 30, 64
Evaporative Cooler 56, 2998
Evaporator Fan 38
Exhaust Fan 29, 41
Fan 8, 16, 27-30, 35, 38-59, 61-64, 2493, 2943-2944
Farm-Duty 34-35
Flange-Mount 21, 41, 59
Food Processing 26, 31-33, 36, 61
Foot-Mount 17-18, 21, 23, 28, 39, 61
Furnace Blower . . . . . 8-10, 12-13, 44, .47-51, 53, 56, 59, 62-64
Gear (See Gearmotors)
Hair Dryer 38
Hazardous Location 28-30, 2675
Heat Pump 51, 62
Heating/Cooling 27, 38, 44-54, 56, 58-60, 63, 2658
High-Temperature 44, 49-51, 53, 55, 63
HVAC 28-29, 38-64, 2658, 2998
Hydraulic 2474
IEC 21
IEEE 841 28
Industrial 8-23, 26-29, 31-33, 36-37, 53, 57, 59, 61, 64
Inverter-Duty 14-19, 21, 23, 28-31, 54-55
J-Face 24-25
Jet Pump 13, 20, 24-25
Kitchen Exhaust 40-41
Lug-Mount 41, 44, 60
Metric 21
Mobile Home 27, 47
Modutrol 3044-3045
ODP (Open Dripproof) 3-Phase 11, 14, 17, 19-25, 54, 57, 60, 64
ODP (Open Dripproof) Capacitor-Start . . . .9-11, . . .13-14, 19, 23-26, 36, 56-57, 59-60, 63-64
ODP (Open Dripproof) PSC 25, 46, 57
ODP (Open Dripproof) Shaded Pole 36
ODP (Open Dripproof) Split-Phase 8, 26, 56, 60-63
OEM Replacement . . . . . 36, 38, 40-41, 43-44, . . .46-47, 52, 57, 60-61, 63, 2493, 2658, 3045
Oil Burner 59
Oil Cooler 2493
OPAO (Open Air-Over) 3-Phase 54-55
OPAO (Open Air-Over) ECM 39, 47-48
OPAO (Open Air-Over) PSC 40, 43-46, 48-51, 53-54, 57-58, 60
OPAO (Open Air-Over) Shaded Pole 38-39, 41-45, 47, 57-58, 60
OPAO (Open Air-Over) Split-Phase 58, 63
Open 36, 41-42, 52, 56-57, 63-64
Oscillating 58
Permanent Magnet DC (PMDC) 27, 33
Pneumatic 2577, 2675
Premium Efficiency 14-24, 28-31
Pressure Washer 26, 31
PSC Direct-Drive . . . . . .31-32, 35, 40, .44, 46, 48-50, 52, 56-58
PSC HVAC 40, 42-46, 48-53, 56-60
PSC Pump-Duty 25, 40, 51, 53
Pump 8-29, 31, 34, 36, 56, 60, 64, 2654-2655, 2658, 2675, 2998
Refrigerator Fan 38-40, 47-48
Severe-Duty 20-21, 28, 30
Shaded Pole 36, 38-45, 47, 57-58, 60-61
Shutter 2936, 2938-2939
Spa 25
Split-Phase Belt-Drive 35, 56, 62-63
Split-Phase Direct-Drive 34-35, 58, 61, 63
Split-Phase General Purpose 8-9, 59, 63
Split-Phase Pump-Duty 8-9, 26, 28, 56, 60, 2654
Square-Flange 25
Stainless Steel 31, 2654
Submersible Pump 2654-2655
Swamp Cooler 56, 2998
Swimming Pool 25
TEAO 3-Phase 55, 58, 64
TEAO Capacitor-Start 35
TEAO PSC 31-32, 35, 40, 43-44, 46, 51-53, 56-59
TEAO Shaded Pole 39, 41-43, 47
TEAO Split-Phase 35, 58, 63
TEFC 3-Phase 15-24, 28-31, 33-34, 64
TEFC Capacitor-Start 9-10, 12-13, 26, 28, 31-32, 34
TEFC No-Base 13, 19-20, 28, 31, 34
TEFC Split-Phase 9, 42
TEFC Universal 2675
TENV . . . . . .12-13, 15, 18-20, 27-29, 31, .33-35, 42, 57, 59, 61, 64, 2654
Timer 417
Torsion Flex 47, 49-50
Totally Enclosed Air-Over (See TEAO)
Totally Enclosed Fan Cooled (See TEFC)
Totally Enclosed Nonventilated (See TENV)
Transformer Cooling Fan 58
U-Frame 14-16
Unit Bearing 39-40, 61
Unit Heater Blower 38, 44-50, 56, 59
Universal 36

Vacuum 37
Vibrator 36
Washdown 31-33
Wet Environment . . . 15, 18, 21, 28, 30-33, 2654
Whole-House Fan 62-63
Winch 2474
Yoke-Mount 31-32, 58
Zone Valve 3037

MOUNTED
Abrasive Points 2392
D-Rings 961
Points, Resin 2392

MOUNTING
Channels 216, 394
Kits 1134, 1230, 1885, 3043
Nuts 2594, 2596
Pads 1223
Rails, Power Strip 1320
Studs 2145-2146, 2172
Tracks, Lighting Fixture 430
Tubes 279

MOUNTING ADAPTERS,
DIN Rail 155, 170, 216
Relay Panel 162

MOUNTING BLOCKS,
Furnace 3094

MOUNTING BRACKETS (SEE BRACKETS)

MOUNTING PADS,
Air Conditioner 3094
Cable Tie 410

MOUNTS,
AC Drive 155, 157
Air Compressor 2561
Air Cylinder 2537-2541
Air Knife 2582
Antenna 950
Automotive Lamp 2055
Cable Pathway 1884
Cable Tie 317, 408, 410
Caster 1214
Ceiling 2023
Circuit Breaker 191-192, 197-198
Damper 3045, 3101
Draft Inducer 3103
Electrical Enclosure . . . 198, 258, 312, 317-318
Framing Floor 316
Heater 2947, 3070, 3073-3074, 3076-3078, 3081, 3087
Hydraulic Cylinder End 2480
Jib Crane 1064
Laser 881
Leveling 880, 1222, 1224-1225
Lighting Fixture 317, 452, 457, 517
Manifold 2542-2543
Meter 225
Monitor 1343, 2022-2023
Motor 95, 121
Pallet Rack Guard 1230
Projector 2023
Radiant Ceiling Panel 3076
Rubber Vibration Isolating 1221, 1223
Shower Rod 2746
Speaker 2023, 2039
Static Pressure Sensor 571
Task Light 1709
Thermocouple 230
Trailer Hitch 958-959
Tubing 319-320, 2586, 2796, 2826-2828, 2830-2831
TV 2022-2023
Valve 2477, 2546, 2550
Voice/Data 355-356
Wall Heater 3073-3074, 3077-3078

MOUSE
Platforms 1321, 1343
Traps 1017-1018

MOVERS,
Cabinet 1192, 1870
Machine 1189, 1192-1193
Table 1168

MOVIE SCREENS 1353

MOVING PADS & STRAPS 1410

MOWER TIRES 1220

MOWERS,
Lawn 986

MUD
Mixers 675, 889, 891, 1605
Pans 889

MUFFLERS,
Compressor 2575-2576
Exhaust 2551, 2575, 2603
Intake 2575-2576
Regenerative Blower 2575
Vacuum Pump 2575

MUFFS,
Ear 1648-1649

MUGS 1444-1445

MULCHERS 986, 988

MULTIMEDIA CONNECTORS 356, 360

MULTIMETER
Adapters 536, 548
Battery Chargers 533
Cables 550
Cases 537, 539, 548-549
Fuses 548
Holsters 546, 548
Probes 537, 548-550, 558, 596-597
Software 536
Test Leads 537, 539, 548-550, 560
Thermocouple Modules 548
Tool Packs 536-537
Wireless Connection Adapters 537

MULTIMETERS,
Analog 539
Bench-Type 558
Compact 536-538, 543-544
Digital 536-546, 551, 553, 556, 558, 562, 607
Handheld 536-544, 551, 556, 562, 607
Logging 536-537, 551
Oscilloscope 558
Portable 536-539, 544, 551, 556, 562
Probe 537-538
True RMS 536-544, 551, 556

MULTIPLIERS,
Torque 786

MULTITOOLS
. . . . . 681, 683, 687, 800, 813-814, 2751

MUSCLE PAIN RELIEVERS 1829

MUSIC
Wire 2191
Wire Springs 2158-2159

N

NAIL
Aprons 755, 757
Bags 755, 757
Brushes 1547
Guns 669, 679, 695, 890, 2496, 2498-2500
Pullers 823, 839, 953
Punches 821
Sets 821
Straps 319

NAILER
Battery Chargers 2496, 2498
Fuel Cells 2496, 2498
Replacement Parts 2500

NAILERS,
Air-Powered 2496, 2498-2500
Brad 890, 2496
Concrete 2500
Cordless 669, 679, 695, 2496, 2498, 2500
Electric 679, 890, 2496, 2500
Finishing 669, 679, 695, 2496, 2498, 2500
Framing 669, 679, 695, 2496, 2498-2500
Impact 2500
Impulse 669, 679, 695, 2496, 2498, 2500
Palm 679, 2500
Pneumatic 669, 695, 2496, 2498-2500
Roofing 2499

NAILS,
Box 2111
Brad 890, 2497
Cap 2111
Coil 2499
Collated 2497-2500
Common 2111, 2499
Deck 2111
Drywall 2111
Finishing 2111, 2497
Flooring 2500
Framing 2111, 2498-2499
Galvanized 2111, 2497-2499
Masonry 2111
Pneumatic 2497-2500
Roofing 2111, 2499
Scaffolding 2111
Sinker 2111
Spike 2111
Truss 2111
Underlayment 2111

NAME TAGS 1406

NAPKIN DISPENSERS 1434, 1443

NAPKINS,
Food Service 1434
Sanitary 1494

NATURAL/LP GAS
Pressure Gauges 576
Regulators 2429, 3083-3084

NAVIGATION SYSTEMS 949

NECK
Gaiters 1642
Protectors 1641, 1815

NEEDLE
Files 818, 820
Scalers, Air 2512

NEEDLE VALVES,
Brass 2476, 2861, 2913
Instrumentation 574, 2464, 2475, 2550-2551, 2861
Pneumatic 2471, 2476, 2550-2551, 2861
Stainless Steel 2861

NEEDLES,
Ball Inflating 1478
Dispensing 2235
Grease Gun 934
Scaler 2512

NEMA
Drive Mounting Kits 157
Motors 14-24, 28-31, 64, 158

NEON INDICATOR LAMPS 497-500, 970

NEOPRENE RUBBER
. . . . . 2199, 2201, 2203, 2207

NETS,
Basketball/Volleyball 1478
Bird 1020
Cargo 1102, 1106
Mosquito 1022
Pool 1481

NETTING HARDWARE 1020

NETTING,
Pallet Stretch Wrap 1416
Perimeter 1010
Wire 1010, 1314-1315, 2190

NETWORK
Jacks 355-356
Switches 357
Video Recorders 2045-2046

NEUTRAL CLEANERS/DISINFECTANTS
. . . 939, 1509, 1511, 1518, 1520-1524, 1581, 2446

NEUTRAL KITS 176

NEUTRALIZERS,
Acid 1854, 3012
Base 1854
Hazardous Material 1854
Odor 1505, 1517, 1521

NIBBLERS,
Electric 688, 726

NIPPERS,
End 839, 842, 855
Tile 891

NIPPLE
Assortments 2772
Filters 2603
Threading Chucks 872

NIPPLES,
Brass Pipe 2791-2795
Carbon Steel Instrumentation Pipe 2780
Conduit 280, 313
Hose 1818, 2486, 2489, 2491, 2520-2521, 2636
Pin Rack 1818
Plastic Pipe 2816-2817
Pressure Switch Pipe 288
Schedule 40 . . . . . 2771-2772, 2784-2785, 2791-2792, 2816
Schedule 80 . . . . . 2774-2775, 2786, 2792, 2816-2817
Schedule 160 . . . . . 2771, 2775
Stainless Steel Duct 3098
Stainless Steel Hose 2636
Stainless Steel Pipe 2784-2787
Steel Duct 3098
Steel Hose 2520-2521, 2636
Steel Pipe 2771-2772, 2774-2775, 2780
Welded 2771-2772, 2774

NITRILE RUBBER,
Sheet 2199, 2202

NITROGEN
Analyzers 623
Dioxide Detectors 624, 1778-1779
Regulators 2428-2429, 2437, 3010
Springs 2015
Tanks 2437

NOISE
Meters 539, 624
Reducers 1889, 2763, 2834

NOISE-ABSORBING
Baffles 1889, 2763
Blankets 1889, 2834
Foam 1889
Screens 1352, 1889
Sheets 2834

NONCONDUCTIVE
Mats 1711, 1897-1898
Shovels 997

NONSPARKING
Brushes 862-863, 1547
Chisels and Punches 862
Cleaning Tools 1546-1547
Cutting Tools 863
Drywall and Plastering Tools 862-863, 887-888
Fastening Tools 798, 861-863
Food Processing Tools 1457
Hammers and Striking Tools 825, 827-828, 862-863
Pliers 861, 863
Shovels 862, 997-998
Sockets 861
Specialty Tools 861-863, 1457, 1547
Wrenches 861-863, 1140

NOSEPIECES,
Rivet Tool 2135

NOSING,
Stair 1900, 2196

NOTCHERS,
Hand 303, 816
Sheet Metal 816, 2356
Tube and Pipe 2356

NOTEBOOK COMPUTER CARTS 1343

NOTEBOOKS 1355, 1382

NOTEPAD HOLDERS 1355

NOTEPADS,
Self-Stick 1357

NOTICE SIGNS . . . 1126, 1527, 1920, 1922, 1924

NOZZLE
Adapters 2414, 2536, 2997
Covers 2743
Filters 1593
Insulators 2414, 2420
Replacement Parts 2743

NOZZLES,
Abrasive Blasting 2402-2404
Air Gun 2515, 2518, 2582
Atomizing Spray 1629
Blow Gun 2515, 2518, 2582
Brazing 2433
Carpet Adhesive 891
Desoldering 234, 236
Epoxy 2172, 2219
Fire Hose 1818-1819
Floor 1565, 1575
Fog 1818-1819
Fuel 2671, 3083, 3086
Grease Gun 934
Heating 2433-2434, 3086
High-Pressure 1591-1593, 2743
Hose 1014, 1818-1819, 2461, 2743, 2909
Jetter 1593
Lawn Sprinkler 2764
Lubrication 2461
MIG Gun 2414
Mixing 1632, 2172, 2219
Oil Control 937, 2461
Pistol-Grip 1014, 2743, 2909
Pump 2671, 2675
Rotating 1593
Safety 2582
Sewer Pipe Cleaner 1593
Spray 1014, 1592-1594, 1629, 2518, 2743
Spray Foam 3011
Vacuum Cleaner/Steam Cleaner 1565, 1570, 1572, 1575
Water 1014, 1818-1819, 2743, 2909
Welding 233, 2414, 2420, 2434, 2436

NUMBER STAMPS 1934-1935

NUMBERING MACHINES 1363

NUMBERS,
Card 1933, 1937
Identification Tag 1936
Self-Adhesive 1527, 1933
Vinyl 1933

NUT
Assortments 2055, 2079, 2087
Driver Sockets 2147
Drivers 365, 698-701, 800-801, 804, 846, 848, 854, 856-857, 862
Inserts 2136, 2142
Runners 2503
Setters 698-699, 701, 2136
Splitters 2469
Threadlockers 905, 2222, 2224

NUTS,
Abrasive Disc Retainer 2376
Acorn 2084
Automotive Battery 924
Axle Cap 2085
Black Malleable Iron Pipe 2769
Brass Slip 2723
Brass Tubing 962, 2853-2856, 2859, 3094
Cage 2055
Camrail 2073
Cap 2084
Carbon Steel Hex 2080-2081
Channel 316, 2825
Collet 724
Cord Connector 326
Coupling 2084
Deformed Thread 2083
Disc Retainer 2376
Domed Cap 2084
Drain/Waste/Vent 2723, 2809
Expansion 2165
Eye 1069, 2075
Fiberglass 2197
Flange 2083, 2197, 2317
Flange Lock 2083
Framing 316, 1119
Freight Car 2073
Grade Eight 2079-2081, 2083
Hex 316, 2055-2056, 2079-2084, 2087, 2097, 2197
Hole Saw Adapter 708
Jam 2080, 2082
Locknut 315, 320, 2056, 2079, 2082-2083, 2769
Metric 2055-2056, 2075, 2079-2085
Mounting 2594, 2596
Nylon Insert 2056, 2079, 2082-2084
Plastic Pipe 2723, 2809
Plastic Tubing 2856
Pressure Switch Compression 288
Push 2085
PVC Pipe 2809
Regulator Panel 2594, 2596
Retainer 2055, 2085
Rivet 2136
Speed 2085
Spherical 2317
Spring 2055, 2085
Square 2197
Stainless Steel Compression Tubing 2858-2859
Stainless Steel Flare Tubing 2854
Stainless Steel Hex 2081
Stainless Steel Instrumentation Tubing 2858-2859
Steel Pipe/Tubing 2770
Strut 316, 2825
Swivel 2317, 3015, 3094
T- 1119, 2085, 2317
Toolholder 2313
Unloader Valve 288
Washer-Attached 2083
Weld 2086
Wing 2084
Wireway 307
Zinc Slip 2723

O

O-RING
Backup Seals 2174
Kits 2174, 2747, 2749, 3038
Lubricants 2173, 2438, 2450
Tools 2173

O-RINGS 108, 2173-2176, 2423, 2648, 2650, 2708, 3098

OCCUPANCY SENSORS 467-470, 3079

ODOR
Controls . . . 1504-1507, 1517, 1520-1524, 1845
Eliminators 1505-1506, 1517, 1520-1521, 1524

OFFICE
Blueprint Racks 1347
Bookcases 1348
Cabinets . . . 1267, 1271-1274, 1337, 1344-1346
Chairs 1333-1336, 1341
Cleaners 1367, 2446
Clocks 1374-1375
Desks 1337-1339
Glue Sticks 1361
Machine Stands 1343
Safes 1968
Signs 1527, 1903, 1917-1918, 1920-1922, 1924-1926, 1941
Stools 945, 1333-1335, 1350
Tables 1169, 1337

OFFICES,
Modular In-Plant 1311-1312

OFFSET
Benders 850
Chain Links 116-117
Conduit Nipples 313
Screwdrivers 800
Sink Drains 2724

OHMMETERS,
Analog 539, 554
Clamp-On 537, 540-544, 551
Digital 536-544, 551, 553-554, 556, 558, 562, 607
Megohmmeter 553-554, 556

OIL
Additives 897
Boards, Stencil 1403
Cans 931, 935, 1874-1875
Change Pumps 2647, 2672, 2691
Change Systems 931
Combustion Testers 623
Containers 2461
Control Nozzles 937, 2461
Coolant Pumps 2691-2692
Cups 2463, 2465
Dispensers 931, 936, 2461, 2463, 2465
Drains 931
Drip Pans 931, 1251
Drum Pumps 936, 2672-2674, 2676-2677, 2695
Extractors 918, 931, 936, 946
Filled Heaters 3068
Filter Crushers 919
Filter Pliers 919
Filter Wrenches 919
Filters 947, 2492, 2495, 2567-2568
Flow Control Valves 937
Gauging Tape 876
Guns 936-937, 2518
Heat Exchangers 2493, 3039
Heaters 3083, 3089
Hose Reels . . . 936-937, 2523-2525, 2527-2529
Level Gauges 581, 2464
Level Switches 2564, 2622, 2678-2679
Meters 937, 2682
Mist Sprayers 935
Monitors, Compressor 2564
Pressure Controls 3018
Pressure Gauges 579
Primaries 3036
Pump Packages 931, 936
Reservoir Guards 2463
Reservoir Leg Kits 2495
Reservoir Tank Lids 2495
Reservoirs 2463, 2465, 2473, 2495
Separators 2462, 2571
Skimmers 2462
Sorbent Booms 1849-1851
Stabilizers 897
Stain Removers 1517
Stop Leak Fluids 897, 899
Suction Tubing 937
Taps 2266
Test Kits 2491, 3012
Transfer Pumps 931, 936-937, 2670, 2672-2674, 2676-2677, 2691
Transfer/Storage Tanks 931, 3007
Vapor Removal Filters 2575, 2590, 2592-2593, 2597, 2603

OIL BURNER
Controls 3036
Motors 59
Pumps 3036

OIL COOLERS 2493-2494

OIL SKIMMER
Belts 2462
Pump Floats 2462
Tubes 2462

OILERS,
Bottle 2463, 2465
Chain 2463, 2465
Constant Level 2463, 2465
Electric 2463, 2465
Glass 2463, 2465
Handled 935
In-Line 2603
Manual 873, 2465
Pipe Threading 873
Pistol 935
Pneumatic 2595, 2597, 2599, 2601-2603
Precision 2457
Pump 935
Single Point 2463, 2465

OILS,
2-Cycle 895-896, 900
4-Cycle 895
Aerosol 901-902, 2438-2442, 2457-2459
Air Compressor 946, 2455, 2457, 2567-2568, 3007
Air Tool 2456-2457
Antiseize 2438
Automotive 894-900
Bar and Chain 2441
Biodegradable 898, 2438, 2441, 2455-2458, 2460, 2568
Chain and Cable 849, 2438-2441, 2444-2445, 2457
Circulating 2455
Compressor 898, 2454-2455, 2457, 2567-2568, 3007
Conduit Threading 873, 2351, 2458-2460
Coolant 2567
Cutting 873, 2351, 2457-2460
Drilling 2457-2460
Engine 894-897, 900
FDA-Approved 2454-2455, 2457
Food-Grade 2438-2441, 2444, 2454-2457
Gauge 571
Gear 897-898, 1594, 2438-2440, 2444-2445, 2454-2455, 2457
Hand Pump 2455, 2457
Heat Transfer 2454-2455
High-Pressure 898, 1594, 2439, 2455
High-Temperature 2439-2441, 2454-2455
Hydraulic 897-899, 2454-2456, 2468, 2492
Impulse 2498
Jack 897, 899, 2455, 2468
Machine . . . 898, 1377, 2438-2439, 2457, 3012
Machining 2351, 2456-2460

Marine 895-896, 899
Metal-Cutting. 873, 2351, 2457-2460
Milling 2458, 2460
Motor 894-898, 900
Multipurpose 898, 901, 2438-2442
Penetrating 901, 2438-2442, 2445
Pipe Threading. 873, 2351, 2458-2460
Power Equipment 2457
Pump . . . . . 898, 946, 1594, 2455-2457, ... 2468, 2581, 2585, 2658, 3007
Reaming 2458-2460
Refrigeration 2568, 3012
Rust-Preventive 2439
Sawing. 2457-2460
Scissor Jack 2455
Screw Machine 2459-2460
Shredder 1377
Soluble. 2459-2460
Synthetic Conveyor 2439, 2441
Threading. 873, 2351, 2457-2460
Tool 2456
Transmission 897-898, 2454
Turning. 2460
Vacuum Pump . . . . . 946, 1594, 2455-2457, ... 2468, 2581, 2585, 3007
Water Soluble 2460
Way 2456
WD-40 . . . . . 2439, 2441

OINTMENTS,
Anti-Itch. 1833
Antibiotic 1829, 1831-1835, 1837
Burn Care. 1829, 1831-1835
Chapped Lip. 1829

OLETS,
Stainless Steel Pipe. 2786

ONLINE SAFETY TRAINING 1944

OPEN SLOT
Duct 303
Wireways. 303

OPENERS,
Bottle 814, 1454, 1964
Can 814, 887, 1454, 1620
Crate 814, 823, 861-863
Door. 1125, 1978
Drain 864-865, 1504, 2437, 2751, 3010
Drum 863, 1140, 2751
Lid 823, 862-863, 888, 1454, 1620, 2819

OPERATORS,
Joystick 243-244, 247, 251
Push Button. . . 240-245, 247, 251-255, 257, 275

OPTICAL
Comparators 2333
Computer Mice/Trackballs. 1354
Level Tripods 881, 2041
Levels 880-881

ORGANIZER TRAYS 1358, 1444

ORGANIZERS,
Bottle 1525
Bucket 754-757, 1550
Cable . . . . . 305, 307, 317-318, 354, 400, ... 404-405, 410-411, 1131, ... 1338, 1343, 1393-1394
Desktop 1358
Drawer. 745, 1305, 1444
Housekeeping Cart 1526
Key. 1964, 1967
Kitchen. 1444
Laboratory 658
Literature 1349-1350, 1383
Pallet Truck 1173
Parts . . . . . 745, 747, 756-757, 1277-1280, ... 1282-1291, 1293, 1295, 1302-1307, ... 1319, 2055, 2751
Tool . . . . . 744-746, 754-757, 858-859, ... 886, 998, 1280, 1282-1285, 1287-1291, . . . 1306, 1320-1321, 1329-1332, 1525-1526
Wall 745, 1331, 1358, 1525
Wire Management . . . . 305, 354, 400, 404-405, ... 1131, 1307, 1338, 1343, 1393

ORP
Sensors 630
Testers. 627-628

ORTHOPEDIC SUPPLIES. . . 1705-1706, 1813

OSCILLATING
Fans. 2915, 2917-2918, 2923-2924
Heaters 3068
Sanders 683, 687, 695, 724-725, 2362
Tool Saw Blades 724
Tools 669, 687, 691, 724

OSCILLOSCOPE
Batteries 558
Cases. 548
Drive Analyzers 558
Probes 540, 558

OSCILLOSCOPES. 558

OUTDOOR
Barricades 1908-1909, 1912
Bulletin Boards 1373
Cabinets. 1268, 1276
Cleaners. 1519, 1631, 2446, 2963
Drinking Fountains 2718, 2720
Fans. 2917
Furniture 1309, 1482-1483
Lighting 424, 450-464, 518-521, 680, 2639
Sheds. 980, 1309-1310
Speakers 2039-2040
Storage Boxes 994, 1296, 1309
Transformers 205, 207-208
Vacuum Cleaners. 988, 990, 1000

OUTLET
Adapter Plates 309, 331, 340
Bodies 313-314, 321
Box Covers. 309, 328, 430
Boxes. . . . . 305-306, 308-312, 320-321, ... 340, 342, 401, 412, 449, 462
Caps. 310, 328
Centers 304
Guards, Blower 2980-2982, 2984-2985
Registers 3085
Strips 304, 353, 403, 1320-1321, 1343
Subplates. 312
Testers. 547

OUTLETS,
4-in-1. 331
Air 3102
Decorative 330-333
Duplex 330-333, 337, 1311-1312, 3072
Electrical . . . . . 304, 330-333, 336-342, . . . 402-403, 412-414, 1311-1312, 1320-1321
Faucet Flow Control 2726, 2743, 2747-2750
Flanged 330, 336-337
GFCI (Ground Fault) . . . 330, 333, 402, 412-413
High-Ampere 332
Hospital-Grade. 330-333, 337, 340, 403
Illuminated. 333
Isolated Ground 331-333, 337
Locking 336-340, 342, 412, 414
Marine 338, 341-342
Modular In-Plant 1311
Panel-Mount 330, 333, 336-340, 342
Pin and Sleeve. 338, 340-342
Raceway Strip 304, 403
Shrouded. 338-339, 342
Straight-Blade 330-333, 339, 412
Tamper-Resistant. 330-331, 333
Temporary Power Box 413
Twist-to-Lock. 336-340, 342, 412
USB 332
Weather-Resistant. 330-331, 333, 412
Weatherproof. 402, 413

OVAL-HEAD SCREWS
. . . . . 2097, 2099, 2106, 2108

OVEN
Cleaners. 232, 1461, 1514
Connectors. 2717
Ignitors. 3032
Mitts. 1703
Replacement Parts 1461
Thermometers. 637, 1455

OVENS,
Convection. 638, 1459
Laboratory 638
Microwave. 1442, 1463
Toaster. 1459
Welding 2417

OVERALLS,
Chemical-Protective 1728-1730, 1740
Electrical-Protective . . . 1707-1708, 1728, 1740
Flame-Resistant 1708, 1727-1728, 1740
Insulated 1719-1720, 1726
Rain-Protective 1719, 1727-1730

OVERBOOTS. 1745-1747

OVERFLOWS,
Sink 2725, 2747-2748

OVERHEAD
Conveyors 1111
Door Holders 1985
Door Openers. 1125
Doors. 1123
Drum Lifters. 1144
Dusters 1538
Lights. . . 436, 438-439, 443, 445-448, 450-452

OVERLOAD RELAY
Contact Blocks. 174, 288
DIN Adapters 163, 171
Lug Kits 163
Remote Resets 163, 169

OVERLOAD RELAYS 161-164, 168-172

OVERPACKS,
Drum 1138, 1854, 1861

OVERPANTS. 1708

OVERSHOES. 1709, 1744-1747

OXY-FUEL TORCHES
. . . . . 2430-2431, 2433-2434, 2436

OXYGEN
Cylinders 1773
Detectors 624, 628, 1776-1781
Fuel Tanks 2430-2431, 2437
Meters 627-628
Regulators 2429-2431, 2433
Tubing 2435

OZONE TEST STRIPS. 632

P

P-CLAMPS 317, 410, 2078

P-TRAPS,
Brass Pipe 2722, 2724
Copper Pipe/Tubing 2796, 2798
Drain/Waste/Vent. . . . . 2722, 2724, ... 2798, 2808-2809
Plastic Pipe 2808-2809, 2811-2812, 2821
Polypropylene Pipe 2722

PACKAGE STRAPPING
Buckles 1421, 1423-1424, 2535
Cutters. 817, 1419-1420
Kits. 1419, 1421, 1424
Tools 1419-1424

PACKAGED AIR CONDITIONERS 2993

PACKAGED TERMINAL
Air Conditioners 2992-2993
Heat Pump Controls. 3025
Heat Pump Drain Kits. 2993
Heat Pump Grilles 2993

PACKAGING
Adhesives 2216, 2238
Blowers 38
Corrugated Sheets. 1401
Edge Protectors 1424
Foam 1411, 1413-1414, 2198-2200
Ink Rollers 1403
Labeling Tags. 1404, 1938
Labels 1395, 1404-1406, 1937, 1940
Markers 1401
Packing Tables. 1399
Padding 1401, 1411-1414, 2198-2199
Paper Fill 1412, 1414
Paperboard 1424
Pouch Tape 1404
Roller Replacements 1403
Scales 644, 1425-1429
Shrink-Wrap Systems 1418
Specimen Shippers 643, 1402
Stencil Machines. 1403
Stencil Oil Boards 1403
Strapping. 1419, 1421-1424, 2535
Stretch Wrap Machines 1417
Tape. 1388, 1395, 1397, 1401, 1404
Tape Dispensers 1394-1396, 1398, 1404
Wrapping Paper. 1412, 1414

PACKAGING,
Bubble 1406, 1412
Cloth Bag 1410
Diagnostic Specimen. 643, 1402
Paper Bag 1411
Shrink-Wrap 1418
Stretch Wrap 1414-1416

PACKERS,
Bearing Grease 934

PACKING
Extractors 2700
Fibers. 1883
List Envelopes 1404
Peanuts 1411

PACKS,
Cold 1402, 1829, 1831-1834
Desiccant. 1413, 2589
Heat. 1829
Hydration 1828

PAD
Adapters 911
Dock Bumpers. 1129
Drivers 1578-1579, 1581-1582, 1584
Frames. 3056-3057
Holders 1534, 1536, 1547-1548, 1586
Holding Clips 3057
Stations, Absorbent 1527

PADDLE FANS 2922

PADDLES,
Level Switch 581
Mixing 889, 891, 893, 1456-1457, 1605
Stop/Slow 1915

PADLOCK
Hasps. 191, 296, 1959, 1962
Keys. 1960
Seals 963

PADLOCKS,
Combination. 1960-1961
Concealed Shackle 1959, 1961, 3094
Extra Reach 1958-1960
Heavy-Duty 1958-1959
High-Security. 1954, 1956-1960, 3094
Keyed-Alike 1949, 1954-1960
Keyed-Different 1954-1959

Luggage....1961
Rekeyable....1957-1959
Resettable....1960-1961
Safety Lockout....191, 199, 1948-1949, 1951, 1953-1955
Shielded....1958-1959
Vending and Meter....1959
Weather-Resistant....1954, 1956-1960

PADS,
Air Conditioner....3094
Air Filter Media....3057
Alcohol....1829, 1831, 1834
Antiskid....1342, 1904
Antivibration....1223
Backup....725, 911, 2374, 2376
Baseboard....1536
Bladder Control....1494
Buffing....911, 1585-1586
Burnisher....1584-1586
Cable Tie....317, 410
Chair....1342
Clamp....833-834
Cleaning....911, 1515, 1536, 1548-1549, 1584
Corrugated Packaging....1401
Crane....944
Easel....1372
Electrode....1838
Evaporative Cooler....2999
Eye Dressing....1831, 1837
Felt....1342
Floor Machine....1583-1586
Floor-Protective....1342
Furniture....1410
Gymnasium Wall....1478
Hand....908, 911, 1515, 1548-1549, 2367, 2369
Hand Polishing....911, 2369
Hard Hat....1640
Heat-Protective....1703
Humidifier....3092
Ink....1363, 1403, 1930
Knee....892, 1705, 1813
Lambswool....1622
Leveling....1223
Mastic....375
Mattress....1468-1469, 1823
Mounting....1223
Outrigger....944
Paint....1620, 1622, 3058
Paper....1355, 1372, 1382
Pavement Marker Adhesive....1904
Polisher....723, 911, 1584, 1586, 2374, 2376
Pouch Tape....1404
Putty....1884
Refinishing....1548, 1583
Respirator Filter....1758, 1760-1762
Rubber Knee....1705
Sander/Grinder....725, 2374, 2376
Sander/Polisher....723, 725
Sanitary....1494
Scrubbing....1548-1549, 1584, 1586
Scuffing....1583
Seat Belt....950
Self-Inflating....1823
Self-Stick Note....1357
Sling Wear....1079
Soap....1549
Sorbent....938, 965, 1527-1528, 1846-1856
Sponge....911, 1515, 1549
Stamp....1363, 1403
Steel Wool....1548-1549
Sterile....1830-1832, 1834
Stripping....1536, 1548, 1584, 1586
Surface Conditioning....911, 1548, 1586, 2367, 2369, 2374
Terry Cloth....1703
Thermal....219
Warning....1904, 2036
Writing....1355, 1382

PAGING AMPLIFIERS....2038, 2040

PAIL
Dollies....1142
Hangers....1620
Lid Openers....823, 862-863, 888, 1454, 1620, 2819
Lids....1136, 1456, 1547, 1621
Liners....1136, 1621
Wringer Combos....1528-1529, 1534

PAILS,
Cleaning....1136, 1528-1529, 1534, 1546-1547
Double....1528
Food Service....1456, 1547
Oval....1528
Paint....1621
Plastic....1136, 1528-1529, 1534, 1547
Round....1136, 1456, 1528, 1547
Steel....1136, 1456, 1528

PAIN RELIEVERS....1829-1835

PAINT
Activators....1602-1604, 1634
Additives....1604, 1613
Agitators....889, 1605
Brush Cleaners....1613, 1620
Brushes....889, 907, 1616-1617, 1622
Bucket Grids....1620
Buckets....1621
Cabinets....1869, 1872
Crayons....1365, 1614
Cups....1621, 1625-1626
Disposal Aids....1613
Drop Cloths....1623
Edgers....1620
Extension Poles....1618-1620, 1625
Filters....1624, 3058
Hardeners....1613
Hoses....1626, 1628-1629
Liner Paper....1624, 3058
Markers....1365, 1614
Marking Wands....1611
Masking Tape....1384, 1386
Mixers....675, 889, 891, 1141, 1605, 1620, 2689
Pads....1620, 1622, 3058
Pails....1621
Primers....906, 1598-1599, 1601, 1606-1608
Pumps....1628, 2674
Removers....910, 1519, 1613, 2216, 2446
Roller Cleaners....1613, 1620
Roller Covers....907, 1618-1620
Roller Screens....1620
Roller Sets....907
Rollers....907, 1618-1620, 1629
Scrapers....823, 862, 887-888, 891, 1551, 1620
Shakers....1605
Shields....1620, 1628
Shipping Cartons....1402
Sponges....1622
Storage Cup Lids....1605, 1621
Storage Cups....1621
Strainers....1622
Striping Machines....1611, 1627-1628
Suits....1623
Tank Liners....1627
Tank Replacement Parts....1625
Tanks....1625
Thickness Gages....569
Thinners....1612-1613
Trap Masking Material....1624
Trays/Tray Liners....907, 1621

PAINT CAN
Hooks....1620
Openers/Closers....887-888, 1605, 1620
Shippers....1402

PAINT COLLECTOR
Frames....3058
Pads....1624, 3058
Rolls....1624, 3058

PAINT SPRAY
Booth Filters....1624, 3058
Booth Liners....1624, 3058
Booths....1624
Cup Liners....1625-1627
Guns....1611, 1625-1629
Hoses....1626, 1628-1629
Socks....1623, 1775

PAINT SPRAYER
Antifreeze....1628
Carts....1627
Filters....1626, 2575, 2589
Pressure Tank Liners....1627
Replacement Parts....1626-1629
Valves....1628
Wands....1611

PAINT SPRAYERS....1625-1628

PAINTER'S
Mitts....1620
Tools....887-888, 1620, 1622

PAINTS,
Acrylic....906, 1595, 1599-1600, 1603-1604, 1606, 1608-1609, 1612, 1630
Aerosol....191, 906-907, 1598, 1606-1611, 1630, 2427
Alkyd....907, 1601, 1607-1609
Alkyd Enamel....907, 1598, 1601, 1607-1609, 1612
Antimicrobial....1595, 1599
Antirust....906, 1600-1603, 1606-1608, 2428
Athletic Striping....1611-1612
Ceiling Tile....2763
Chalkboard....1609
Cold Galvanizing....1603, 1606, 2428
Concrete....1596-1600, 1602, 1604, 1607-1612, 1630, 1634
Dry Fall....1598
Enamel....907, 1598-1601, 1606-1609
Epoxy....1602, 1604, 1606, 1609, 1634
Exterior....907, 1595-1602, 1606-1609, 1612, 1634
Fabric....907, 1609
Farm-Duty....1606, 1609
Fast Dry....906-907, 1596, 1598, 1601, 1606-1608, 1610-1611
Floor....1602, 1604, 1634
Fluorescent....1606, 1608-1610
Glow-in-the-Dark....1609
Grit....1604, 1634
Heat-Resistant....1603
High-Temperature....906-907, 1606, 1609
Interior....907, 1595-1601, 1606-1609, 1634, 2763
Latex....1595-1597, 1599, 1608, 1612, 1630
Marking....1609-1612
Metal Inspection....2427
Plastic....907, 1599, 1608-1609
Polyurethane....1634
Safety....1602, 1604, 1609
Scratch Repair....906
Solvent-Based....191, 907, 1598-1602, 1604, 1606-1612, 1634
Spray....191, 906-907, 1598, 1606-1611, 1630, 2427
Striping....1610-1612
Touch-Up....191, 906-907, 1606, 1609, 2763
Traffic....1604, 1611-1612, 1634
Urethane....1599, 1603-1604
Vehicle....906-907, 1606
Water-Based....1595-1600, 1604, 1608-1612, 1630, 1634
Zero-VOC....1596, 1599-1600

PALLET
Carousels....1177
Cones....1424
Covers....1100, 1416
Dollies....1135, 1192
Grabs....1177
Jacks....1065, 1173-1175, 1178
Levelers....1178, 1181-1182
Lifter Beams....1061
Loaders....1178
Movers....1135, 1173-1175, 1178-1181, 1192
Net Wrap....1416
Positioners....1175, 1177-1182
Ramps....1862-1863, 1866, 1872
Scales....1426
Stackers....1173-1175, 1178-1181
Stands....1178
Strapping....1419, 1421-1424, 2535
Strapping Tools....817, 1419-1424
Truck Replacement Parts....1174, 1217
Trucks....1173-1175, 1178-1181
Turntables....1177
Wrap....1414-1416
Wrapping Machines....1417

PALLET RACK
Anchor Bolts....1227
Beam Ties....1228
Beams....1227-1228
Collision Warning Lights....1230
Cross Bars....1227, 1229
Decking....1227, 1229
Enclosures....1229
Frame Protectors....1227-1228, 1230
Frames....1226-1228
Guards....1227-1230
Labels....1230
Protectors....1227-1230
Security Cages....1229
Shims....1227
Spacers....1227-1228
Sumps....1857
Supports....1227-1228

PALLET RACKS....1226-1228

PALLETS,
Container....1135
Drum....1135, 1862-1863, 1865, 1867
Food Service....1135, 1457
Rackable/Stackable....1135
Reinforced....1135
Secondary Containment....1861-1867
Skid....1135

PALM NAILERS....679, 2500

PALM SANDERS....725, 2510

PAN-HEAD SCREWS....2055, 2097-2100, 2102, 2104-2107, 2109, 2111

PANEL
Adhesives....2228-2229, 2819, 2834
Air Filters....947, 1770, 2955, 3047-3052, 3058
Carriers....1168
Heaters, Radiant Ceiling....3076
Nuts, Regulator....2594, 2596
Temperature Displays....586, 588
Trucks....1168

PANEL METER
Covers....225
Shunts....560

PANEL METERS,
Ammeter....225-226, 559
Analog....228, 559
Digital....225-228, 421, 559, 570, 590, 603
Elapsed Time....228
Frequency....559
Percent Load....559
Tachometer....159, 559, 567
Temperature....225, 559
Thermometer....559, 603
Timer....225-226
Voltmeter....225-226, 559

PANEL-MOUNT
Fuse Holders....186-187
Gauges....570, 578
Inlets....330, 336-337
Outlets....330, 333, 336-340, 342
Receptacles....330, 333, 336-340, 342
Switches....165, 167-172, 217-218, 223, 240-247, 251-257, 259-260, 262, 273, 275, 421
Thermometers....559, 586, 588-591
Timers....172, 218, 223, 225-226, 228, 418, 420-421

PANEL SAWS....733

PANELBOARD
Circuit Breakers....188, 190-192, 196-202
Covers....189-190

EDB Breakers....192
Fuses....177-180, 183-185
Neutral Assemblies....190
QOB Breakers....188

PANELBOARDS....189-191, 197

PANELS,
Access....2002, 3101
Acoustical....1889, 2763
Air Conditioner....1311-1312
Air Filtration....1769-1771
Bathroom Stall....2761-2762
Bin Mounting....1280-1281
Cable Management....293, 354
Control....229, 2052, 2330, 2655, 3030, 3081
Cubicle....1352
Dust Barrier....1122
Electrical....189-191, 197, 412
Enclosure Interior....297, 300
Fiber-Optic Adapter....357
Filter....3052, 3054, 3058
Fire Alarm....2051
Firestop....1883
Garbage Can....1553
Gas Detection Control....624
Locker End....1254
Patch....354
Pegboard....1329-1330
Pump Control....2629, 2655
Stainless Steel Wall....2190
Temporary Power....412
Toilet Stall....2761-2762
Traffic Channelizer....1910
Urinal Privacy....2761-2762
Voice/Data....354
Wall Storage....1280-1281
Welding....2410
Wire Management....293, 354
Wire Mesh....1134, 1230, 1314-1315

PANIC BARS....1976, 1993-1996, 2003

PANS,
Bus....1447
Drain....931, 1857, 1861, 1869, 1875
Drip....931, 1251, 1861
Dust....911, 1541-1542, 1546-1547
Food....1449, 1456
Furnace Drain....3092
Mud....889
Scale....644
Sieve....649
Steam Table....1449
Water Heater....2716
Weighing....644-645

PANTS,
Disposable....1735, 1737
Flame-Resistant....1708, 1712
General Work....1723
High-Visibility....1726-1728
Law Enforcement Uniform....1813
Military....1813
Painter's....1723
Rain....1727, 1729-1730
Tactical....1813

PAPER
Adhesives....1361, 2216-2218, 2225, 2228-2229
Bags....1411
Clip Holders....1358
Clips....829-830, 1359
Cup Dispensers....1434, 1826, 2721
Cups....1432, 1826
Cutters....812, 1381
Glue Sticks....1361
Napkin Dispensers....1434, 1443
Napkins....1434
Packaging Fill....1412, 1414
Padding....1401, 1412, 1414
Pads....1355, 1372, 1382
Paint Collector Pads....3058
Plates....1436
Punches....1360
Rolls, Calculator....1356
Self-Stick Easel Pads....1372
Shredders....1376-1377
Tape....1384, 1390-1391, 1398
Toilet Seat Covers....1494
Towel Dispensers....1444, 1485-1488, 1491
Towels....661, 1485-1488, 1491-1492, 1494
Trays....1358, 1436
Trimmers....1381

PAPER,
Cash Register....1356
Chart....599
Copier....1355-1356
Filter....662
Floor-Protective....1100, 1412, 1624, 3058
Kraft Wrapping....1412, 1414
Newsprint....1412
Printer....1355-1356
Spray Booth Liner....1624, 3058
Toilet....1488-1489
VCI (Volatile Corrosion Inhibitor)....1414
Wall-Protective....1412, 1624, 3058
Waterproof....1100, 1355
Wrapping....1412, 1414

PAR LAMPS....492-495, 508

PARA BLOCKS....1505

PARALLEL CLAMPS....392, 833

PARALLELS....2329

PARAPET GUARDRAIL SYSTEMS....1789

PARCEL DROP BOXES....1969

PARKAS....1713, 1726, 1811

PARKING
Block Bolts....1131
Curbs....1131
No Parking Signs....1917, 1920
Permits....1970

PARTICLEBOARD
Decking....1231-1235
Shelves....1231-1235, 1250

PARTITION
Plates....395
Wall Organizers....1358
Wall Paper Clips....1358

PARTITIONS,
Curtain Wall....1121, 2410
Portable Folding....1352
Toilet Privacy....2761-2762
Urinal Privacy....2761-2762
Wall....1121, 1311-1312
Wire....1134, 1230, 1314-1315

PARTS
Bags....756, 1298, 1410
Baskets....1297, 1299
Boxes, Plastic....745, 747, 1289, 1293-1295, 1302-1304
Cabinets....1169-1170, 1263-1266, 1268, 1270, 1273, 1275-1278, 1303, 1305-1307, 1318-1319, 2055
Cleaners....232, 642, 901, 908, 938-939, 2446-2449, 2460
Drawer Dividers....1303, 1305
Organizers....745, 747, 756-757, 1277-1280, 1282-1296, 1298, 1302-1307, 1319, 1329, 1331, 2055, 2751
Storage Shelving Units....745, 1280, 1282-1285, 1287-1291, 1305-1307

PARTS WASHER
Accessories....938-939, 2638
Pumps....2638

PARTS WASHERS....938-939

PASTE SEALANTS
....905, 1632, 2223-2224, 2226-2227, 2820

PASTE,
Conductive....590
Heat Sink....232, 590, 3012
Lubricating....2443-2445
PTFE....2224, 2820

PATCH
Cords....354, 357-358, 362-363
Panels....354

PATCHES,
Drywall....889, 1597
Epoxy....2220
Fiberglass Repair....906, 2821
Metal Repair....2220
Tire....955

PATCHING COMPOUNDS
....1597, 1630-1633, 2172, 3012

PATIO HEATERS....3070, 3079, 3082

PATTERN PISTOLS....889

PAVEMENT
Breakers....715, 2513
Chalk....1610
Cleaning Compounds....1631
Markers....1614, 1904
Sealants....2230
Stripers....1611, 1627-1628
Tape....1904

PAYROLL
Cards....1375
Clocks....1375

PC BOARD REPAIR TOOLS....232-234

PEANUTS,
Packing....1411

PEDAL VALVES
....2546, 2548, 2727, 2743-2744

PEDESTAL
Bases....258, 1605
Cabinets....1264, 1318-1319
Columns....258
Grills....1459
Lights....977
Mailboxes....1969
Mount Fans....2915-2919, 2923
Pumps....2630, 2642-2643, 2645, 2647, 2694-2695
Workbenches....1318-1319

PEDESTALS,
Bench....1254, 1318-1319
Desk....1345
Dimmer Control....470
Enclosure....258
Fan....2916
Mailbox....1969

PEDESTRIAN CROSSWALK SIGNS
....1915, 1917

PEELERS,
Fruit/Vegetable....1452

PEGBOARD
Bins....1329, 1331
Brackets....1331
Cabinets....1266, 1268
Carts....998, 1169, 1330
Clips....1329, 1331
Hooks....1329, 1331-1332
Mounts, Magnetic....1332
Panel Systems....1329-1330
Shelves....1329, 1331

PEGBOARDS,
Mobile....998, 1169, 1330
Wall-Mount....1329-1331
Workbench....1169, 1321

PEN
Holders....1358
Refills....1355

PENAL
Beds....1471
Chairs....1341
Lavatories....2760
Restroom Equipment....1488, 2760-2761

PENCIL
Compasses....884
Cups....1358
Grinders, Air....2509
Sharpeners....884, 1364
Tire Gauges....955-956

PENCILS,
Carpenter's....884
Grease....1365, 1614
Mechanical....1364
Wood....1364
Writing....1364

PENDANT STATIONS....249, 2414

PENETRANTS,
Aerosol....901, 2427, 2438-2442, 2445
Antiseize....2438, 2442, 2445
Dye....2427
Multipurpose....901, 2438, 2440-2442, 2445
Rust....901, 2438-2439, 2442, 2445

PENETRATING OILS....901, 2438-2442, 2445

PENNANT STRING....1351

PENNANTS,
Traffic....1907

PENS,
All-Weather....1355
Ballpoint....1355, 1366
Chart Recorder....599
Engraving....2511
Gel....1366
Ink....1355, 1366
Marking....1364-1365, 1614-1615
pH Testing....627
Roller-Ball....1366
Stain-Removing....1519

PEPPER SPRAY PROJECTILES....2044

PERMITS,
Parking....1970

PERSONAL CARE KITS/SUPPLIES
....1824, 1830-1831, 1839

PERSONAL SAFETY LIGHTS....1835

PERSONNEL LIFTS....1032-1033, 1042, 1176

PESTICIDE
Cabinets....1871
Respirators....1761, 1763

PESTICIDES....1023

PET WASTE BAGS/STATIONS....1554

PETG PLASTIC....2211

PETRI DISHES....663

PETROCHEMICAL VENTS....1783

PETROLEUM
Hydrocarbon Detector Tubes....1782
Jelly....1829
Spill Kits....1853-1855
Transfer Hoses....2607

PH
Buffers....634
Electrode Storage Solutions....630

Electrodes 629-630
Meters 627-630, 2462
Pens 627
Stabilizers 1480
Test Strips 632, 1480, 1613, 2702
Testers . . . 627-629, 631-632, 1480, 2462, 2702

PHASE
Monitor Relays 221
Sequence Indicators 546, 555

PHASE ROTATION TESTERS . . . 545-546, 555

PHENOLIC PLASTIC 2214

PHILLIPS BIT SOCKETS 703, 767, 776

PHONE
Amplifiers 2036
Cables 349, 357
Headsets 949
Holsters 756
Jack Blanks 356
Jack Boxes 355-356
Jacks 356
Line Analyzers 363-365
Line Testers 363-365
Lockers 1261
Plates 328, 355-356
Plugs 355
Ringers 1885
Testers 363-364
Wire Crimpers . . . . . 383-384, 389, 814, ... 841, 846-847, 855
Wire Strippers 383

PHONES 2034-2036

PHOTO EYES . . . . . 281-283, 414-416, ... 449, 469-470, 567, 1125, 1969

PHOTOCONTROLS,
Lighting 414-416, 449, 454, 462, 469-470
Security 414-416, 462, 470

PHOTOELECTRIC SENSOR
Brackets 282-283, 414
Receptacles 414-415
Reflectors 282
Shorting Caps 414-415

PHOTOELECTRIC SENSORS . . . . . 281-283, ... 414-416, 449, 469-470, 567, 1125, 1969

PHOTOELECTRIC SWITCHES 281-283

PHOTOLUMINESCENT SIGNS 428, 1923

PHOTOMETERS 631

PIANO
Hinges 2012-2014
Wire 2191
Wire Cutters 842, 844

PICK HANDLES 999

PICKS/MATTOCKS 827, 862, 999, 1820

PICKS,
O-Ring 2173

PICKUPS,
Magnetic 824, 830, 1066
Mechanical 824
Tachometer 567

PICNIC TABLES 1483

PICTURE
Frames 1358
Hangers 2020

PIGTAIL
Connectors 333, 383, 386-387, 389
Splicing Kits 376, 378, 383

PIGTAILS 333, 387, 574, 2055

PIKE POLES 862, 1007, 1820

PILASTER SHOES 2762

PILASTERS,
Toilet Stall 2761-2762

PILLOW
Blocks 133-137
Protectors 1468-1469

PILLOWCASES 1468

PILLOWS,
Bed 1467
Firestop 1883
Rescue 1823
Sorbent 1846, 1848-1850, 1853-1856

PILOT
Burner Generator Assemblies 3034
Burner Tubing 3034
Drill Bits 704, 706, 708, 851
Flame Sensors 3034
Ignition Systems 3032-3034, 3036
Pins, Annular Cutter 740
Punches 821-822
Repair Kits 2908, 3038
Safety Valves 2553, 2574-2575, 3032
Solenoid Valves . . . 2542-2545, 2873, 2882, 3032

PILOT LIGHT
Cover Plates 309
Heads 246-247
Lamps 246, 499
Lenses 242, 246

PILOT LIGHTS,
22mm 243-244, 246
30mm 250, 257
Contactor 163, 165
Corrosion-Resistant 257
Incandescent 244, 257
LED 244, 246, 257
Starter 163, 165
Switch 167, 330

PILOTS,
Pressure 2908, 3038
Temperature 3034

PIN
Assortments 2150
Clips, Hitch 2150-2151
Extractors 914
Gages 2338-2339
Lanyards 2152, 2321
Punches 821-822, 862, 2337
Rack Nipples 1818
Rack Wall Brackets 1818
Racks, Fire Hose 1818
Terminals 386
Vises 2343

PIN AND SLEEVE
Adapters 341
Back Boxes 342
Boxes 342
Connectors 340-342
Cover Assemblies 341
Inlets 338, 341
Mechanical Interlocks 342
Outlets 338, 340-342
Plugs 338, 340-342
Power Cords 399, 413
Receptacles 338, 340-342

PIN PUSHERS,
Hydraulic 914

PINCERS,
Jaw 2534, 2805

PINCH POINT BARS 823, 862, 999

PINS,
Annular Cutter Pilot 740
Ball Lock 2321
Bridge 2150
Coil Tension 2152
Coiled 2150, 2154
Cotter 2150-2151
Cotterless Hitch 959, 2152
Detent 959, 2152, 2321
Double Wire 2152
Dowel 2153
Drift 862
Fastening 1043, 2150-2151, 2169
Fitness Machine 2321
Grooved Clevis 2151
Hairpin Cotter 2150
Headless Clevis 2151
Landscape Anchor 1003, 1012
Locking 2150-2152, 2321
Pop 2321
Pull-Out 2152, 2321
Push 1359
Push-Button 2321
Quick Release 2321
Safety 2152
Scaffold 1043
Seat-Adjustment 2321
Selector 2321
Slotted 2154
Snapper 2152
Spring 2150, 2154, 2321
Spring-Loaded Workholding 2321
Standard Clevis 2151
Tension 2150, 2154
Trailer Hitch 958-959, 961, 2152
Weight Stack 2321

PINTLE HOOKS 958-959

PIPE
Adapters, Modular FRL 2595, 2602
Antifreeze 3012
Arrow Tape 1932
Banding Tape 1932
Benders 850, 2469
Bending Shoes 850
Brushes 871, 1544-1547, 2751, 3095
Carts 849, 1168
Cement 2819
Clamp Probes 596
Clamp Thermocouples 596
Clamps . . . . . 316-319, 323, 392, 833, 2409, . . . 2425, 2780, 2788, 2818, 2824-2831, 2847
Cleaners 320, 869, 2223, 2751, 2819
Clips 2586, 2807
Collars 1883
Compounds 2224, 2820
Covers 2722, 2832-2833, 2837-2838
Cutters . . . . . 305, 684, 869-871, 873, ... 886, 2586, 2618, 2800, 3010
Cutting Machines 869-870, 873
Deburring Tools 2298-2300
Deicers 874, 1141, 3067
Die Heads 872-873
Dies 872-873, 2262, 2265
Dope 905, 2224, 2819-2820
Escutcheons 2722-2723
Expanders 917
Extractors 871
Flange Aligners 2425
Flange Leak Shields 2831
Freezing Spray 874
Freezing Units 874
Gaskets . . . 2723, 2779, 2818, 2839-2841, 2853
Hangers . . . . . 316-317, 319-320, 2074, 2788, . . . 2796, 2799, 2824-2828, 2831, 3096, 3099
Hanging Clamps . . . . . 316-317, 319, 323, ... 2788, 2824-2828, 2830-2831
Heating Cable End Seals 3067
Heating Cables 3067
Inspection Camera Accessories 606, 616-617, 866
Inspection Cameras . . . . . 543, 616-617, ... 672, 684, 866
Insulation 2832-2838, 3012
Insulation Shields 2832
Insulation Tape 2832, 2834, 3012
Leak Patch/Repair 2821
Levels 880
Locator Transmitters 565
Locators 565, 866, 1009
Markers 1614, 1927, 1932, 2422
Pliers 838-840, 855, 859
Primers 320, 2223, 2819
Racks 849, 1168, 1238-1239, 1307
Reamers 842, 871, 873
Repair Clamps 2818, 2829-2830, 2847
Repair Tape 2224, 2821
Repair Water Blockers 874
Sealants . . . . . 905, 1884, 2220, 2222-2224, . . . 2231-2233, 2819-2821, 2838, 2842, 3012
Shrouds 2722
Shutoff Tools 869
Snakes 2751
Spacers 319, 2586
Stands 874, 2425
Straps . . . 316, 319-320, 2796, 2826-2828, 2837
Supports . . . . . 316-321, 323, 874, 2074, ... 2425, 2788, 2796, 2799, 2807, ... 2824-2828, 2830-2832, 3096
Tags 1936
Taps 2262, 2265, 2268-2269, 2272, 2274
Thawers 874, 1141, 3067
Thread Compounds 2224, 2820
Threaders . . . . . 872-873, 2262, 2265, ... 2268-2269, 2272
Threading Coolants 873, 2351, 2460
Threading Dies 872-873, 2262, 2265
Threading Machine Stands 873-874
Threading Machines 872-873
Threading Oilers 873
Threading Ratchets 873
Threading Support Arms 873
Trucks 849, 1168
Vises 831-832, 874
Wrap 2409, 2821, 2832-2838
Wrenches . . . . . 838, 858, 861-863, 867, ... 871-872, 919, 2751

PIPE FITTING
Caddies 2751
Insulation 2832-2834, 2836-2838
Replacement Parts 2779

PIPE FITTINGS,
ABS 2724, 2808
B-Vent 3096
Black Iron 2768-2770, 2773
Black Steel 2769-2777, 2779
Brass . . . . . 1818, 2656, 2722-2724, 2748, . . . 2790-2795, 2818, 2842, 2853-2855, 2911
Bronze 2802
Carbon Steel 2778-2781, 2804, 2846
Cast Brass 2724, 2911
Cast Copper 2798-2800
Cast-Iron 1308, 2725, 2846
Copper 2801-2802, 2842, 2853, 3015
CPVC 2812, 2815-2818
Drain/Waste/Vent . . . . . 2722-2725, 2796, ... 2798, 2808-2810, 2812-2813
Ductile-Iron 2779-2780, 2828
Flue 3096
Galvanized Iron 2768-2770, 2773, 2776
Galvanized Steel . . . . . 2768-2772, ... 2775-2777, 2818, 2842
Gas Vent 3096
Instrumentation 2780, 2787, 2795
Malleable Iron . . . . . 2531, 2768-2770, ... 2773, 2776, 2842
Plastic . . . . . 2617, 2680, 2722-2724, 2767, ... 2779, 2806, 2808-2818, 2821
Plastic-to-Metal Transition 2814
Polyamide 2617
Polyethylene 2813
Polypropylene . . . . . 2722-2723, ... 2767, 2779, 2816-2818
Pressure Switch 288
PVC . . . . . 2680, 2806, 2809-2814, ... 2816-2818, 2821
PVDF (Polyvinylidene Fluoride) 2817
Single-Wall 3096
Stainless Steel . . . . . 2636, 2781-2787, ... 2818, 2828, 2846
Steel . . . . . 2617, 2768-2781, 2804, ... 2818, 2842, 2846

Structural....1308
Welded Steel....2771-2772
Wrot Copper....2795-2798
Zinc....2724

PIPE,
ABS Plastic....2808
Aluminum....1308
Black Steel....2771-2772, 2774-2775
Brass....2791-2792
Copper....2847
Corrugated....2813
CPVC....2812, 2815
Cut....2772
Drain/Waste/Vent....2808, 2813, 2847
Drainage....2813
Galvanized Steel....1308, 2772, 3098
Gas Vent....2715, 3085, 3096
Plastic....2808, 2810-2812, 2814-2816
Polypropylene....2816
PVC....2810-2811, 2814
Quick Assembly Duct....3098-3099
Schedule 40....2772, 2783-2784, 2791, 2808, 2810-2811
Schedule 80....2775, 2786, 2792, 2812, 2814-2815
Stainless Steel....2783-2787, 3098
Structural....1308
Unthreaded....2774, 2784
Vent....3085, 3096
Welded Steel....2772, 2774

PIPEFITTER'S TAPE....875

PIPETTERS/PIPETTES....658-659

PISTON
Accumulators....2494
Air Compressors....2579-2580
Pumps....896, 2579-2580, 2673-2674, 2677
Ring Compressors....920
Valves....2878, 2880-2881

PITCH GAGES....2338, 3010

PITCHFORKS....999

PITOT TUBES....572

PIVOT
Fans....2923-2924
Hinges....2011

PIVOTS,
Structural Framing....1119

PLACARDS,
Hazardous Material....1937
Right-to-Understand....1937, 1940

PLACERS,
Cement....892

PLANER BLADES....725

PLANERS
....670, 688, 691, 719, 724-725

PLANK GRATING....2195-2196

PLANKS,
Scaffold....1028, 1040, 1043

PLANNERS....1369

PLASMA CUTTER
Consumables....2423
Gas Distributors....2423
Guides....2422-2423, 2425, 2430
Torches....2423

PLASMA CUTTERS....2358, 2422-2423

PLASTER
Mixers....893
Rings....308, 320

PLASTER OF PARIS....1597

PLASTIC
Adhesives....905, 1020, 1361, 2216-2218, 2220-2221, 2225-2226, 2228-2233, 2238
Bag Dispensers....1350, 1407
Cutters....684, 842, 869-870, 2618

PLASTIC,
ABS....2211
Acetal....2214
Acrylic....2211
Angle....2197, 2209, 2213
C-Channel....2197, 2209, 2213
Copolyester....2211
Fire-Retardant Resin....2197
Food-Grade....2210-2214
HDPE....2210
I-Beam....2197
LDPE....2210
PETG....2211
Phenolic....2214
Polycarbonate....440, 2209
Polyester....2180
Polyethylene....1099, 2210, 2212-2213
Polypropylene....2209, 2212
PVC....2180, 2209
Rod....2197, 2209-2210, 2212-2214
Roll....1413
Sheet....440, 1099, 2180, 2192, 2200, 2209-2214
Tube....2197, 2213
U-Channel....2197, 2209, 2213
UHMW....2212-2213
Urethane....2200

PLATE
Clamps....1065, 2830-2831
Compactors....1009
Grips....1065
Heat Exchangers....3039
Joiners....688
Rolls....2355

PLATE COVERS....1445

PLATES,
Alloy Steel....2186
Aluminum....2183
Angle....2019
Clutch....1583
Conveyor Drop-In....1112
Door....1993-1994, 1998, 2005
Filler....190-191, 198, 1975
Firestop Support....3096
Floor....2194
Foam....1436
Food Service....1436
Framing....316, 1119
Isolator....2550
Jack....944
Joiner....2019
Legend....249, 259-260, 275
Mending....2019
Molded Floor....2194
Mop....1998
Mounting....280, 317
Paper....1436
Push-Button Closing....258
Raceway....304, 306-307
Stainless Steel....2191
Stretcher....1998
Surface....2342
Switch....259-260, 262, 304, 306, 308-309, 328, 330
T-....2019
Tamper....715
Telephone....328, 355-356
Terminal Block Partition....395
Thermostat....3021, 3027-3028
Tissue Culture....663
Tread....2183, 2186
Trim....1885, 2052, 2722-2723, 2748, 2750
Valve Isolator....2550
Voice/Data Cable Duct....308
Wall....308-309, 328, 355-356, 360, 571, 3020, 3101
Welding....1766-1767, 1769, 2405, 2407, 2426
Well....663
Wire Protection....308, 317

PLATFORM
Components....1035, 1040-1041, 1043-1044, 1048, 1312-1313
Connectors....1048
End Supports....1040
Ladders....1025-1026, 1028, 1035, 1046, 1048
Lifts....1032-1033, 1042, 1178, 1180, 1183
Mats....1048
Railings....1040-1041
Stairs....1040, 1312
Straddle Kits....1032
Tool Trays....1044, 1176
Tube Caddies....1176

PLATFORM TRUCK CASTERS
....1195-1211, 1213

PLATFORM TRUCKS
....1151, 1163-1167, 1171, 1185-1186, 1341

PLATFORMS,
Adjustable....1040, 1043-1046, 1048
Aerial....1032-1033, 1176
Aluminum....1040-1041, 1044, 1048
Computer Keyboard....1321
Computer Monitor....1320
Computer Mouse....1321
Dual Access....1044-1046
Floor Scale....1426
Fork Truck Work....1176
Forklift Load....1180, 1183
Laboratory Mixer....648
Ladder....1040-1042, 1046
Maintenance....1032-1033, 1042-1046, 1048-1049, 1176
Mezzanine....1312
Modular....1048
Personnel Lift....1032-1033, 1042
Rolling....1032-1033, 1042-1046, 1049
Steel....1043-1046, 1049, 1312
Step....1045-1046, 1048, 2197
Sump Pump....2626
Telescoping Plank....1028
Water Heater....2716

PLATTERS,
Food....1456

PLENUMS....2955, 2995, 2997

PLIER
Holders....755
Punches....814
Replacement Parts....839
Sets....365, 758, 838-839, 843-844, 846, 848, 854, 861

PLIERS,
Adjustable....838-840, 855, 859, 861, 863, 919
Automotive....839, 843, 846, 859, 916-919, 922
Battery....922
Bent-Nose....841, 843, 846, 854-855
Bulb Exchange....839
Cable Cutter....318, 347, 366, 817, 844-845, 853-855, 924, 1089
Cannon Plug....839, 859, 917
Chain-Nose....365, 841, 844
Combination....814, 838-839, 841, 846, 848, 854-855, 861, 863
Curved Jaw....838
Cycle....839
Diagonal-Cutting....758, 839, 842, 844, 846, 848, 854-855, 861, 863
Duckbill....841
Electrician's....365, 382, 384, 839, 841, 844-846, 854-855, 861, 863
End Cutter....839, 842, 844, 846, 855
End Nipper....839, 842, 855
End-Nose....839, 846
Fast Release....838
Fence Tool....839
Flat Jaw....839-840
Flat-Nose....841, 844, 846, 854
Gripping....839-840
Groove Joint....765, 839-840, 848, 854-855, 859, 861, 863
Hex Jaw....840
High-Leverage....817, 839, 841-842, 845-846, 854-855
Hose Clamp....839, 918, 2534, 2805
Insulated....384, 840-841, 854-855, 861, 924
Ironworker's....839, 841
Lineman's....839, 841, 846, 848, 854-855, 861, 863
Lock Ring....843
Locking....838-840, 843, 859
Locknut....839
Long-Nose....234, 365, 758, 814, 838-839, 841, 843-844, 846, 848, 854-855, 861, 863, 2424
Long-Reach....841-843
Miniature....839-840, 844, 846
Modular Hose....2461
Multifunction....814, 838-839, 841-842, 846, 848, 854-855, 861, 863
Needle-Nose....233-234, 365, 814, 838-839, 841, 844, 846, 855, 863, 2424
Oil Filter....919
Pipe....838-840, 855, 859
Plug....839, 859, 917
Precision....841-844, 846
Pump....839-840, 848, 854-855
Retaining Ring....843
Round-Nose....841, 855
Safety Wire....844, 859, 892
Self-Adjusting....840
Side-Cutting....839, 841-842, 844, 846, 848, 854-855, 861, 863
Slip Joint....839-840, 859, 861, 863, 919
Snap Ring....843
Soft Jaw....839, 917
Solid Joint....838-839, 841, 843, 845, 853-855
Spark Plug Boot....839
Straight Jaw....838, 840, 843, 861
Tile....891
Tongue-and-Groove....758, 765, 839-840, 848, 854-855, 859, 861, 863
V-Jaw....838-840
Water Pump....839-840, 854-855, 872
Welder's....839, 2424
Wire Stripping....854-855
Wire Twister....844, 859, 892

PLOW
Bolts....991
Quick Couplings....2489

PLUG
Adapters....335, 361, 400, 402, 413, 961
Boots....337-338
Caps....340
Fuses....185
Gages....2338-2339
Lockouts....328, 1946-1949, 1952
Pliers....839, 859, 917
Taps....851, 2141, 2262-2275
Test Pumps....2822
Valves....2861, 2914

PLUGS,
Abrasive....2391
ABS Pipe....2724, 2808
Acetal Push-to-Connect Tubing....2850
Air Hose Coupling....2519-2522
Aluminum Cam and Groove....2767
Angle....334-335
Audio....351
Black Malleable Iron Pipe....2770, 2773
Black Steel Pipe....2776-2777
Brass Barbed....2849
Brass Compression Tubing....2859
Brass Flare Tubing....2853-2854
Brass Instrumentation Pipe....2795
Brass Instrumentation Tubing....2859
Brass Pipe....2724, 2790-2791, 2793-2795
Brass Tubing....2805, 2849, 2853-2854, 2859
Bronze Pipe....2725
Carbon Steel Pipe....2780
Cast-Iron Pipe....2725

Cigarette Lighter Socket 361, 949
Circuit Breaker Finder Alligator 564
Closure. 310
Conduit 315
Copper Pipe/Tubing 2796
Cord. 334-340, 342
Coupling. 2489, 2519-2522, 2765, 2767
CPVC Pipe 2815
Drain 1297, 1859, 2723-2725, 2748, 2808-2809
Drain/Waste/Vent Pipe 2724-2725, 2808-2810, 2822
Drive 772, 780
Dust. 2489-2490
Ear. 1643-1647, 1707
Electrical 334-342
Ethernet. 355
Firestop 1883
Galvanized Malleable Iron Pipe 2770, 2773
Galvanized Steel Pipe 2770, 2776
Grinding. 2391
Hazardous Location. 340
Hex. 2780
High-Ampere 335
Hole 2086
Hose. 1818
Hose Barb 2521-2522, 2764, 2813
Hospital-Grade. 334, 340
Industrial Interchange Coupling 2519-2520, 2522
Knockout 298, 315, 2086
Locking 334-340, 342
Marine 334, 336, 338, 341-342
Mechanical Test. 2823
Modular 355
Network Cable. 355
Nylon Hole and Knockout. 2086
Nylon Push-to-Connect 2557
Nylon Tubing 2557
Phone. 355
Pin and Sleeve. 338, 340-342
Plastic Pipe 2724, 2808-2811, 2813-2817
Plastic Tubing. 2557, 2764, 2850
Plumbing Test 2822-2823
Pneumatic 2519-2522, 2765, 2767, 2822-2823
Polypropylene Pipe 2765, 2816
Polypropylene Tubing. 2557
Pressure Switch Pipe. 288
Pressure Washer 1592
Push-Button Blanking 248
PVC Pipe 2809-2811, 2813-2814
PVC Push-to-Connect 2813
PVDF (Polyvinylidene Fluoride) 2817
Rail. 1308
Railing 1308
RCA 351
Relief/Filler 2464
Shrouded 338-339, 342
Single-Wire 340
Spark. 3083
Stainless Steel Cam and Groove 2767
Stainless Steel Compression Tubing 2858
Stainless Steel Flare Tubing 2854
Stainless Steel Instrumentation Pipe 2787
Stainless Steel Instrumentation Tubing. . . . 2858
Stainless Steel Pipe. 2782, 2785, 2787
Steel Pipe. 2776-2777, 2780
Straight-Blade 334-335, 338-339
Telephone 355
Thermocouple 230-231, 596
Trailer Connector 961
Twist-to-Lock. 335-340, 342
Vehicle Accessory 361, 949
Voice/Data 355
Watertight 334, 337-342
Weatherproof. 340

PLUMB BOBS. 876, 884

PLUMBERS
Cloths. 2368
Hole Saw Kits 706
Levels 880
Tape. 2820, 2827, 2838, 2842
Tool Sets 758, 2751
Torches 1003, 2430-2431, 2436-2437

PLUMBING
Firestops 1883
Heaters 1141
Installation Tools 305, 671, 678, 684, 758, 867-871, 2356, 2425, 2618, 2700, 2750-2751, 2800, 2805, 2819, 2837, 3010
Pipe Deicers. 874
Pipe Freezing Spray. 874
Pipe Freezing Units 874
Pipe Locators. 866
Pipe Repair Tape 2224, 2821
Putty 2819-2821
Solder 239, 2618
Stepless Clamps 2534
System Test Gauges 579, 2822
Test Plugs 2822-2823
Wrenches. . . 867, 871, 2750-2751, 2756, 2764

PLUNGER
Cans. 1875
Clamps. 2320
Pumps 2693
Splash Guards 2751

PLUNGERS,
Adhesive 2236
Hand-Retractable. 2321
Knurled-Head. 2321
Spring 2321
Toilet 745, 2751

PNEUMATIC
Actuated Valves. . . 2547, 2871-2872, 2885, 3043
Actuator Diaphragms. 289
Actuators 3041, 3043
Air Blowers 1783
Air Dryers. 2587-2589
Air Movers 1783, 2583
Air Valves. 2542, 3041-3042
Angle Grinders. 2506-2507
Backfill Tampers 2513
Belt Sanders 2510
Blast Cabinets 2402
Blow Guns 2515-2518, 2582
Blowers 1783
Brads 2497
Buffers. 2510
Calibration Tools 3040
Casters. 1207
Caulk Guns. 2233
Chipping Hammers 715, 2512-2513
Chisel Scalers 2512
Chisels. 714-715, 862, 2512, 2514
Clamps. 2541
Condensate Separators 2571, 2576, 2590
Control Relays 3041, 3043
Controls 2551, 3040-3043
Couplings. 2519-2522, 2586, 2765-2767
Cut-Off Tools 2508, 2511, 2586
Cylinder Switches 2480
Cylinders 2537-2541
Damper Actuators 3041, 3043
Die Grinders. 2507-2508
Diggers 2513
Dispensing Guns 2233
Drain Valves. 2572-2573, 2597
Drills 2504
Electric Switches. 3041
Engraving Pens 2511
Exhaust Mufflers 2551, 2575, 2603
Fasteners. 2497-2501
Filter/Regulator/Lubricators 2595, 2598, 2600-2602
Filter/Regulators 2594, 2597, 2599, 2601-2602
Fittings. 2519-2522, 2531, 2554-2558, 2586, 2765-2767, 3040
Gearmotors 2577
Grinders. 2506-2508
Hammer Retainers. 2514
Hammers. 2512-2513
Hose Ferrules 2530
Hose Reels. 1016, 2523-2529
Hose Test Pumps 2822
Hoses. 2435, 2529, 2606, 2608, 2610-2612
Impact Wrenches. 2502-2503
In-Line Restrictors. 3040
Jackhammers 2513
Jacks. 941-943
Lifts 942, 1180
Line Filters. 1626, 2575, 2589-2594, 2596-2598, 2600-2603
Lockouts 1946, 2553, 2595, 2598, 2601, 2603
Low Pressure Valve Kits. 2549
Manifold Blocking Discs 2543-2544
Manifold Mounts 2542-2543
Manifolds. 2461, 2542-2545, 2549-2550, 2586, 2852
Mist Eliminators. 2603
Modernization Kits. 3040
Mufflers. 2551, 2575, 2603
Nailers 669, 695, 2496, 2498-2500
Nails. 2497-2500
Needle Scalers. 2512
Nut Runners. 2503
Oilers 2595, 2597, 2599, 2601-2603
Pallet Loaders 1178
Paving Breakers. 2513
Pencil Grinders 2509
Plugs 2519-2522, 2765, 2767, 2822-2823
Plumbing Test Plugs 2822-2823
Pressure Switches. 2600
Pumps 933-934, 936-937, 2674
Ratchet Wrenches 2503
Regulators 2543-2544, 2585, 2596, 2600
Relays 172, 3041, 3043
Relief Valves 2573-2574, 2603
Rivet Busters. 2513
Riveters 684, 2135, 2505-2506, 2512
Rock Drills 2513
Routers 724
Sanders 2509-2510
Saws 729, 2511
Scalers. 2512
Screwdrivers 2505
Sealants. 2224
Shears 2356, 2511
Silencers 2551
Speed Controls 2542-2544, 2551
Staplers 2500-2501
Staples. 2500-2501
Switches 263, 3041
Tackers 2500-2501
Temperature Controls 3040, 3042
Thermostats. 3040
Tie-Down Elements 2551
Tie-Down Packages. 2551
Timers 218
Tires. 957, 1219-1220
Tool Lubricants 898, 2456
Tool Replacement Parts. 2500, 2513
Tool Sets 2503
Transducers. 3041
Tubing 2586, 2604-2606, 2608, 2610-2612
Vacuums 1565, 1567
Valve Foot Guards 2548
Vibrators 149-152
Wheels. 1219-1220
Winches. 1083

POCKET
Air Filters. 3053
Knives 808, 812-814
Levels 883, 2336
Magnifiers 2340
Psychrometers. 594
Rules 884, 2335
Saws 814
Screwdrivers 798, 800, 814, 3040
Scribers. 2343
Thermometers. 585, 587, 595, 1455

POCKETS,
Document 830, 1358, 1383
Guardrail 1133

PODIUMS 1337

POINTS,
Indicator Contact 2332-2333
Lifting. 1068-1071, 1084, 1177
Moil 715
Rotary Tool Engraver 724
Rotary Tool Grinding 724, 2392
Well 2656

POISON IVY LOTION/BARRIERS 1829

POISONS,
Rodent. 1018

POLE
Pruners 1005
Sanders. 725
Saws 1005

POLES,
Carpet 1176
Closet. 1476
Clothesline. 1475
Dust Barrier 1122, 1623
IV 1821
Measuring 1009
Paint Extension 1618-1620, 1625
Pike 862, 1007, 1820
Power 304
Pruning Extension 1005
Rescue. 1786
Service. 304
Test Plug 2822
Ventilation 1007, 1820
Window Cleaning. 1550

POLICE
Clothing 1811-1813
Firearm Gear 2041
Surveillance Equipment. 2041, 2048
Tactical Gear 527, 1813

POLISHER PADS
. . . . . 723, 911, 1584, 1586, 2374, 2376

POLISHERS,
Bore. 2371, 2381
Cordless. 677-678, 684, 688
Electric. 723-724
Floor. 1578-1579

POLISHES,
Car. 908, 910
Chrome 910, 1518, 2446
Furniture 1518
Metal 910, 1518, 2446
Stainless Steel. 910, 1518, 2446

POLISHING
Bonnets 723
Cloths. 908, 911, 1492
Pads. 723, 911, 2369
Wheels. 724, 2389

POLYCARBONATE 440, 2209

POLYESTER FELT,
Sheet 2215
Strip. 2215

POLYESTER PLASTIC,
Sheet 2180

POLYETHYLENE,
Rod 2210, 2213
Sheet 2199-2200, 2210, 2212-2213
Tube. 2213

POLYPROPYLENE,
Rod 2209, 2212
Sheet 2192, 2212

POLYURETHANE
Applicators. 1622
Coatings. 1634
Thinners. 1613

POLYURETHANE,
Sheet 2200

PONCHOS. 1730

POND
Aerators. 2640
Dyes. 633
Filters. 2639

Pumps 2630, 2637-2640
Skimmers 2639
UV Clarifiers 2639
Vacuums 2639

PONY PUMPS 2630, 2639, 2691

POOL
Brushes 1481
Chemicals 1480
Cover Pumps 2641
Filters 2641
Floats 1481
Ladders 1481
Lamps 494
Leaf Skimmers 1481
Lifts 1481
Light Transformers 2639
Lighting Fixtures 2639
Maintenance Clarifiers 1480
Pump Motors 25
Pumps 2641, 2689
Strainer Baskets 2641
Table Cloths/Covers 1479
Tables 1479
Thermometers 1481
Timers 418, 421
Towels 1473
Trowels 892
Vacuum Heads 1481
Vacuum Poles 1481
Vacuums 2639
Water Test Kits 631

POOLS,
Shower Water Collection 1824
Spill Containment 1862

POPCORN MAKERS 1458

POPCORN,
Concession Pack 1458
Microwave 1441

POPPET VALVES 2475-2476, 2574

PORCELAIN CLEANERS
. . . . . 1503-1504, 1518-1519, 1522, 1549, 2446

PORTABLE
Air Conditioners . . . 354, 2921, 2991, 2996-2998
Blowers 670, 679, 688, 988, 1354, 2989
Blowers/Vacuums 988, 1572-1573
Coolers . . . 1300, 1825-1827, 2998, 3000-3001
Cranes 943, 1062, 1064
Dehumidifiers 3062
Desktops 1382
Dust Collectors 683, 719, 2363, 3060
Fans 2920-2921, 2923-2924, 2989
Generators 981-983, 2560, 2562
Heaters . . . . . 1783, 2996-2997, 3067-3070, ... 3082-3084, 3087
Humidifiers 3061
Lift Tables 1181-1182
Lifts 1178-1183
Lights . . . . . 396-397, 429, 513-514, 516, ... 518-522, 530, 670, 672, 674, 680, 689, ... 691, 693, 754, 967-969, 971, 2359
Power Supplies 209, 412, 929, 983
Pumps . . . . 946, 1824, 2467, 2623, 2630-2633, ... 2637, 2664, 2666, 2694, 3007
Ranges 1439
Sandblasters 2403-2404
Showers 1824
Sinks 2729

PORTFOLIOS 756, 1355

PORTION
Cups 1436
Scales 644, 1428-1429, 1455
Scoops 1454

POSITIONERS,
Pallet 1175, 1177-1182
Welding 2424
Work 1175, 1177-1183, 2424

POSITIONING
Assemblies 1804-1805
Belts 1798
Levelers 1178, 1181-1182
Slings 943, 1791
Switches 2480, 3041
Tables 1178, 1181-1182
Tool Sets 2343

POSITIVE DISPLACEMENT PUMPS
. . . . . 679, 2585, 2630, 2637, 2647, 2663-2669, ... 2672, 2688-2691, 2693-2698

POST
Bases 1133, 1916
Drivers 1010
Extensions, Wire Partition 1314
Fasteners 1912, 1916
Hole Diggers 1008
Kits, Steel 1250
Reflectors 978, 1912, 2043
Sleeves 1132

POST-IT WALL PADS 1372

POSTER FRAMES 1372

POSTERS,
Labor Law/Right-To-Understand 1941
Safety 1709, 1941-1943
Spanish 1941

POST-IT FLAGS/NOTES 1357

POSTS,
Barricade 1133-1134, 1910, 2042-2043
Binding 561, 2103
Crowd-Control 1132, 1134, 1910, 2042-2043
Delineator 1910, 1912
Fall Protection 1786
Fence 1010-1011
Guardrail 1133, 1230, 1789
Jack 1126
Mailbox 1969
Rack 1240
Shelving 1246-1248, 1250
Sign 1916
Traffic 1910, 1912
Wire Partition 1134, 1230, 1314-1315

POT
Holders 1703
Magnets 829-830

POTENTIOMETERS 159, 222, 251, 263

POTHOLE REPAIR COMPOUNDS . . . 1631-1632

POUCHES,
Carpenter's 755, 1795
Document 830, 1383, 1404
Electrician's 755, 757, 859, 1798
Fastener 756
Gas Mask 1774
Job Ticket 1383
Laminating 1380, 1970
Leather 755
Lockout 1946, 1949
Nail 755
Nylon 755, 757
Oscilloscope 548
Plier 755
Tape Measure 755, 859
Technician's 755-756
Thermometer 548, 601
Tool 754-757, 858-859, 1795

POULTRY
Fan Blades 2951
Fan Motors 35, 56
Fans 2917, 2928, 2998
Feed Motors 34-35
Knives 1453
Netting 1010
Shears 815, 1453

POWDER
Level Switches 581
Sorbents 1836, 1845

POWDER-ACTUATED TOOLS 2169

POWER
Analyzers 537, 551-552
Cable Connectors 324, 923, 2420
Centers 304
Chain Tensioners 120-121
Conditioners 205, 208, 353
Cord Reels 396-398, 522
Cords . . . . . 353, 362, 367, 372, 400-402, ... 413, 429, 470, 665, 1764, 1779, ... 2926, 2993, 2998, 3067, 3077
Cutter Blades 719-721
Cutters 671, 673, 678, 684, 717-718, 853
Data Loggers 538, 551-552
Door Operators 1992
Drivers . . . . . 665, 667-668, 672, 674-676, ... 681-682, 686-687, 689-692, 694, 2143
Drives 27, 153-158
Factor Meters 551-552
Inverters 209, 929
Loads 2169
Loggers 551-552
Monitors 551-552
On Brakes 95
On Clutch/Brakes 95
Outlet Strips . . . . . 304, 353, 402-403, ... 1320-1321, 1343
Relays 217-220, 223
Roof Ventilators . . . 2952-2962, 2964-2966, 2968
Shears 670, 678, 688, 726, 816
Sockets 775-776, 949
Stacker Lifts 1179-1180
Stringers 412
Strips 304, 353, 402-403, 1320-1321, 1343
Sweepers 990, 992, 1569
Transformers 160, 205-208, 560, 3033
Wrenches . . . . . 668, 672, 676, 682, 687, ... 689, 691-692, 694, 697

POWER DISTRIBUTION
Block Covers 393
Blocks 393
Carts 412
Center Cables 348
Center Cords 348, 413
Centers 412-413
Units 353

POWER GENERATOR THERMOCOUPLES
. 3034

POWER METER PROBES 540-541, 558

POWER METERS . . . . . 225, 363, 536-539, ... 541-542, 544, 547, 551-552, 559, 562, 607

POWER POLE CONTACT ASSEMBLIES . . . 163

POWER POLES 304

POWER STEERING FLUIDS 899

POWER SUPPLIES,
2-Way Radio 2030
AC 158, 209, 568, 929, 2472-2474, 2582
Burglar Alarm 1979
Chassis-Mount 158, 212
Constant Voltage 560
DC 209-212, 225, 469, 560, 1979, 2051
DIN Rail Mount 209-212
Door Access 1976, 1978-1979
Fire Alarm 2051
Hazardous Location 210, 212
Linear 209, 1979
Lock 1976, 1978-1979
Portable 209, 412, 929, 983
Remote 469
Standby 210, 213-214
Switching 210-212, 560
Uninterruptible 213-214

POWER SUPPLY RECTIFIERS 1977

POWER TRANSMISSION
DC Drives 27, 158-159
Universal Joints 130

POWER UNITS,
Automotive Hoist 2472-2474
Hydraulic 869, 2472-2474
Machine Tool 2472-2474

POWERHEADS,
Valve 3037

PPE (PERSONAL PROTECTION EQUIPMENT) KITS 1707, 1709, 1837

PRECISION
Bearings 140-141
Calibrators 562
Gages 2330, 2336-2338
Levels 880, 2336
Oilers 2457
Parallels 2329
Pliers 841-844, 846
Regulators 2600
Screwdrivers 802-803
Springs 2159
Tool Sets 802-803, 2330, 2333
Tweezers 814, 839, 844

PRECUT SHIMS 2180-2181

PREFILTERS,
Air Cleaner 3059-3061
Air Line 2590-2592
Respirator 1761-1763

PRERINSE SPRAY VALVES 2740

PRESENTATION REMOTE CONTROL POINTERS 1353

PRESERVATIVES,
Eyewash Station Water 1839
Fuel 896, 900
Leather 910

PRESERVERS,
Life 1808-1810
Paint/Finish 3012

PRESS
Fittings 2801-2805
Rings 2800, 2805
Valves 2862

PRESSES,
Arbor 2357, 2470
Bench 2470
Bottle Jack 2357
Drill 740, 2344-2345
Floor 2357, 2470
H-Frame 2357, 2470
Hand 2357
Hydraulic 2355-2358, 2470
Lid 1605
Sealing 1936
Shop 2355, 2357, 2470
Steam 1475

PRESSING TOOL JAWS 2800

PRESSING TOOLS
. . . . . 671, 678, 867, 2751, 2800, 2805, 3010

PRESSURE
Booster Pumps . . . . . 2633, 2642-2645, ... 2648-2653, 2691, 2698
Calibrators 562-563, 874, 2637
Indicators 962, 2518, 3026
Loggers 580, 593
Meters . . . . . 570, 572-573, 580, 619, 2471, ... 2602, 2677, 3010
Modules 563
Paint Spray Guns 1625-1626, 1628

Pilot Repair Kits 2908
Pilots 2908, 3038
Pots 1625
Probes 3042, 3046
Recorder Filters 598
Recorders 580, 598
Regulators 1592, 1626, 2428-2431, 2433, 2436-2437, 2543-2544, 2594-2596, 2598-2603, 2889-2893, 3017, 3038, 3083-3084
Relief Valves 287-288, 563, 2471, 2475-2476, 2573-2574, 2584, 2603, 2688, 2694, 2696, 2893-2895
Relief Vents 1140, 2463-2464, 2551
Sensing Fittings 571
Sensors 287-290, 570-571, 2553, 2600, 3016, 3018, 3042, 3046
Snubbers 574
Sprayers 994, 1000-1002, 1525
Test Hoses 563
Test Pumps 563, 874, 2637, 2822
Testers 563, 571-572, 578, 874, 918-919, 2637
Transducers 290, 570, 574, 580, 3017, 3031, 3046
Transmitters . . . 290, 570, 574, 580, 3017, 3046
Vents 2463-2464, 2551

PRESSURE CONTROL
Switches 290, 3016
Valves 2571, 2574-2575, 2694, 2696, 2908, 3010

PRESSURE CONTROLS,
Dual 3016
Fan Cycle 3016, 3031
Oil 3018
Refrigerant 3016-3018, 3026
Single 3016, 3026

PRESSURE GAUGE VALVES 574

PRESSURE GAUGES 570-571, 573-580, 588, 685, 918,955, 962, 2471, 2518, 2591, 2602, 2806, 2822, 3010

PRESSURE SWITCH
Compression Nuts 288
Contact Blocks 287-288
Covers 288, 290
Pipe Nipples 288
Pipe Plugs 288
Relays 288
Terminals 288

PRESSURE SWITCHES,
Air 288, 290, 570, 2600, 3046, 3104
Air Compressor 287-288, 290, 2559
HVAC 570, 3046
Hydraulic 289
Industrial 289-290, 2600, 3016
Machine Tool 289-290
Pump 287-290, 3016

PRESSURE/VACUUM MODULES 548

PRESSURE WASHER
Brackets 1587
Cleaners 1519, 2446
Couplings 1592
Hose Reels 2524-2525, 2527-2529
Hoses 1591, 1593-1594, 2606
Lance Assemblies 1591
Motors 26, 31
Nozzles 1591-1594
Pumps 2668-2669, 2693
Quick-Connect Plugs 1592
Regulators 1592
Sandblast Kits 1592
Spray Guns 1591
Wands 1591-1592

PRESSURE WASHERS
. . . . . 1578, 1587-1590, 3011

PREVENTIVES,
Rust 380, 901, 906-907, 1601-1603, 1606-1608, 2185, 2428, 2438-2439, 2445, 2456

PRIMERS,
ABS 2819
Acrylic 906, 1595, 1599-1600
Acrylic Enamel 1598, 1600
Adhesive 1633, 2223, 2963
Aerosol 906-907, 1598, 1606-1608, 2223, 2427
Anaerobic 2223
Automotive 906-907
CPVC 2819
Enamel 906-907, 1598, 1600-1601, 1606-1607
Epoxy 1606, 1634
Heat-Resistant 906
Industrial 1598, 2223
Latex 1595-1596
Metal 906-907, 1598-1601, 1607-1608, 2223, 2427
Pipe 320, 2223, 2819
Plastic 320, 2819
PVC 320, 2819
Rubber 2221, 2223
Shellac-Based 1598
Solvent-Based 1601, 1606-1608, 1634
Spray 906-907, 1598, 1606-1608, 2223, 2427, 2963
Urethane 2223
Water-Based 1595-1596, 1598-1600
Zero-VOC 1595, 1599-1600

PRINTER
Cases 370
Filament 664
Label Accessories 369, 372
Labels 367-368, 370-372, 1362, 1378-1379, 1405-1406, 1931
Paper 1355-1356
Power Cords 367, 372
Ribbons . . . 367, 369-371, 1405, 1927-1931, 1970
Stands 1337, 1343
Tape 367-372, 1378-1379, 1927-1931

PRINTERS,
3D 664
Date Code 1403
ID Card 1970
Label . . . 367, 370-373, 1379, 1403, 1927-1930
Postage 1379
Thermal Transfer 367, 371-372, 1378-1379, 1927-1930
Wire Identification 372, 1379

PRISON
Beds 1471
Chairs 1341
Hinges 2007-2008
Plumbing Fixtures 2760

PROBE
Extenders 548, 596
Lights 548
Meters 537, 620

PROBES,
AC Current 537, 540, 550, 558
AC/DC 540, 558
Air Temperature 595-597, 618
Airflow 618-619, 3042, 3046
Amplifier 364
Conductivity/TDS 630
Current 537, 540-541, 558
High-Voltage 548
Humidity 584, 595, 618
Layout 2343
Meter 537, 540-541, 546, 548-550, 557-558, 595-597, 604, 619, 630
Moisture Indicator 595
Multimeter 537, 548-550, 558, 596-597
Oscilloscope 540, 558
pH 629-630
Pipe Clamp 596
Power Meter 540-541, 558
Pressure 3042, 3046
Scope 540
Soil 1009
Surface Roughness Gage 2341
Temperature 230-231, 537, 548, 584, 591, 595-597, 604, 618, 620
Test 230-231, 537, 548-550, 596-597
Thermistor 595
Thermocouple 230-231, 537, 548, 596-597, 604
Thermometer 230-231, 537, 548, 584, 591, 595-597, 604
Wire 230-231, 537, 548, 596-597

PROCESS
Calibrator Accessories 563, 3046
Calibrators 562
Controls 229, 289, 415-418, 421, 639, 3018, 3025, 3065
Gauges 573, 575-577, 579
Meters 159, 225-226, 229, 421, 559, 562, 570, 590, 603, 639
Output Thermometers 589

PROJECTION
Lamps 488, 495, 500-502
Screens 1353

PROJECTOR
Connectors 361
Cords 359
Mounts 2023

PROPANE
Gas 2437
Heaters 3082-3084, 3087, 3089
Hoses 2435
Torch Kits 1003, 2430, 2436
Torches 1003, 2430, 2433-2434, 2436

PROPELLERS,
Fan 2940, 2950-2951
Mixing 651, 1141

PROPORTIONERS,
Chemical 1520-1522, 1525

PROPRESS
Fittings 2801-2803
Tools 2800
Valves 2862

PROTECTANTS,
Antimicrobial 1599
Auto Body 907
Leather 909-910
Rubber 909-910, 953, 2221
Tire 909-910, 953
UV 909-910
Vinyl 909-910

PROTECTIVE CLOTHING (SEE CLOTHING)

PROTECTORS,
Battery Terminal 922
Bearing 17
Cab Screen 991
Cable 300, 305, 308, 317-318, 324, 376-378, 389, 404-407, 1131, 2420
Column 1132
Corner 1105, 1132, 1134, 1424, 2006
Document 830, 1361, 1380, 1383
Door Hardware 1998, 2006
Electric Motor 154, 167, 196
Floor 1099-1100, 1342, 1533, 1623
Furniture 1342
Glove 1710, 1715
Hose 404-406, 1131
Mattress/Pillow 1468-1469
Neck 1641, 1815
Pallet Load 1424
Pallet Rack 1227-1230
Pump 903, 2694
Rack 1227-1230
Sheet 1361, 1380, 1942
Surge . . . 188, 190-191, 197, 203-204, 213-214, 332, 353, 402-403, 412-413, 3031
Trailer Circuit 961
Tree 1003
Wall 1493, 2003-2004, 2006
Window 1623
Windshield Wiper Blade 948

PROTRACTOR HEADS 2334

PROTRACTORS 883-884, 2334, 2424

PROXIMITY SENSOR MOUNTING BRACKETS 282, 284

PROXIMITY SENSORS . . . 283-286, 462, 567

PROXIMITY SWITCHES 283-286

PRUNERS 1005-1007

PRUSIK PULLEYS 1808

PRY BARS
. . . . . 823, 861-863, 953, 999, 1191, 1820

PSC GEARMOTORS 71-74, 78

PSC MOTORS,
Condenser Fan 44, 49, 51-54
Direct-Drive 31-32, 35, 44, 46, 48-50, 52, 56-58
Furnace Blower 44, 48-50, 56, 2972-2973, 2975
HVAC 40, 43-46, 48-54, 56-60, 2972
Pump-Duty 25, 40, 51, 53
Unit Heater 44-46, 48-50, 56, 58-59
Washdown 31-32

PSYCHROMETERS . . . 543, 594-595, 620-621

PTAC
Controls 2993, 3021, 3023, 3025
Grilles 2992-2993

PTHP
Controls 3025
Grilles 2993

PUBLIC ADDRESS SYSTEM
Batteries 2038
Intercoms 2039
Microphones 2038
Speakers 2037-2040, 2052
Transformers 2040

PULL
Bars 1059
Elbows 313, 320-321
Handles 1993-1994, 2003, 2005, 2018
Station Boxes/Covers 1979, 2053
Stations, Fire Alarm 2051

PULLER KITS 912, 914

PULLERS,
Automotive 912-917
Bar 912, 915-916, 1059
Battery 922
Bearing 912-916
Blower Wheel 914, 3010
Brush 1007
Cable 847, 1059
Carpet 891
Chain 117, 1057-1058
Compression Sleeve 2751
Fan 914, 3010
Faucet Cartridge 2748
Faucet Handle 2751
Filter 3010
Flange-Type 916
Fuse 187
Gear 912-916, 2469

Hub 913-914, 3010
Hydraulic 914, 2469
Jaw 912-916
Nail 823, 839, 953
Pallet 1177
Pulley 912-914, 916
Push 912-916
Ratcheting 1057-1059
Reversible 913
Seal 916
Tie-Rod 916
Tile 1065
Web Strap 1059
Wire Mesh Grip 325-327, 352

PULLEY

Alignment Lasers 880
Blocks 1084, 1090, 1808
Bushings 115
Idlers 120
Pullers 912-914, 916
Sheaves 109, 1090

PULLEYS,

1-Groove 109-113, 1123, 1808
2-Groove 109-113, 1808
3-Groove 110, 112-113
4-Groove 110, 112-113
Cast-Iron 109-113
Classical V-Belt 109-112
Composite 111
Die-Cast 109-110
Fan 2998
Fixed-Eye 1090, 1808
Gearbelt 114
Prusik 1808
Variable-Pitch 109-110
Wire Rope 1090, 1123

PULLING

Lubricants 849, 2438-2440
Winches 1081-1083, 1085, 1105, 1478

PULLS,

Cabinet 1272, 2003, 2018
Chest 2018
Door 1106, 1994-1995, 2003, 2005, 2018, 2762

PULSE

Access Modules, Flowmeter 2683, 2686
Generators 159
Meters 559, 2684
Valves 1593

PUMP 2622
Accumulators 2494
Adapters 2675, 2677, 2698
Alarm Panels 2629, 2655
Alarms 221, 2622, 2629
And Cylinder Sets 2468-2469
Antifreeze 1594, 1628
Bases 2626
Batteries 2621
Bearing Assemblies 2658
Cables 347
Cartridges 2659
Chemical Injectors 2694
Connectors 2658, 2697-2698
Coolant Tanks 2692
Couplings 129, 2656, 2658, 2697-2698
Dollies 930
Ejectors 2653
Expansion Tanks 2661
Fastener Kits 2658
Filters 2575-2576, 2694
Fittings 2658-2659, 2671
Flanges 2658-2660
Floats 291, 2462, 2620, 2911
Flow Indicators 2689
Flowmeters 2670, 2682
Heads 2633, 2648, 2654, 2695-2698
Hose Clamps 2531-2535
Hoses 2461, 2606-2607, 2634-2637, 2671, 2690-2691, 3091
Inlet Filters 2632, 2694
Installation Kits 2698
Light Kits 2640
Lubricants 898, 903, 946, 1594, 2455-2457, 2581, 2585, 2658, 2690, 3007
Mounting Bases 2698
Mounting Brackets 2691
Nozzles 2671, 2675
Oils 898, 946, 1594, 2455-2457, 2468, 2581, 2585, 2658, 3007
Oils and Oilers 935, 2658
Pliers 839-840, 848, 854-855
Protectors 903, 2694
Quick Disconnects 2677
Replacement Parts 1825, 2569, 2580, 2626, 2630, 2632-2633, 2637, 2647, 2650-2652, 2658-2660, 2663-2665, 2667, 2675, 2688-2689, 2694, 2698
Roller Kits 2693
Savers 1594, 1628, 2694
Screens 2632
Seal Failure Relays 221
Seals 2632-2633, 2642, 2645, 2647-2648, 2658, 2672, 2699-2701
Shaft Seals 2632-2633, 2642, 2645, 2647-2648, 2652, 2658, 2700-2701
Starters 165, 167, 2629, 2655
Storage Brackets 2677
Strainers 2632, 2641, 2658, 2675, 2677, 2691
Suction Pipes 2671
Tanks 2656, 2689
Thermoplastic Kits 2633
Timers 416, 418, 421, 2658-2659
Tubing 2675, 2688-2689
Union Kits 2660
Valves 288, 2546, 2548, 2627, 2639, 2646, 2656, 2662, 2688, 2694, 2903, 2907, 2909-2911, 3092
Water Tanks 2656
Well Ejectors 2653
Wheel Kits 2632

PUMP CONTROL

Boxes 2655
Panels 2629, 2655

PUMP CONTROLS . . . 153-158, 165, 167, 174, 416, 2622, 2629, 2655-2656, 2658-2659, 2684, 2686-2687, 2689, 3035, 3046

PUMP MOTORS,

3-Phase 14-25, 28-29, 31, 60, 2654
Capacitor-Start 9-13, 23-26, 28, 56, 60, 64
Carbonator 26
Circulator 60, 2658
DC 27
Drum 2675
Jet 13, 20, 24-25
PSC (Permanent Split Capacitor) 25, 40, 42, 51, 53
Split-Phase 8-9, 26, 28, 56, 60, 2654
Submersible 2654-2655
Swimming Pool 25
Washer 26, 31

PUMP REPAIR KITS,

Centrifugal Pump 2642
Diaphragm 2663-2668, 2688
Gasket 2630, 2666
Metering 2687-2689
Roller 2693
Rotary 2672
Transfer 2647
Valve 2667

PUMP RETRIEVAL GUIDE RAILS 2625

PUMP SWITCHES,

Float 2620, 2628-2629, 2640, 2678, 2681, 3046, 3092
Pressure 287-290, 3016
Sump 2620, 2622, 2628-2629

PUMPS,

Acid 936, 2647-2649, 2663-2665, 2674, 2676-2677, 2688-2689, 2698
Agricultural 1002, 2619-2620, 2632-2633, 2637, 2643, 2645-2646, 2669, 2689, 2693-2696
Air-Operated 931, 933-934, 936-937, 946, 2580, 2627, 2663-2669, 2674, 2695
Antifreeze 2665, 2669, 2672, 2674, 2676-2677
Backup Sump 2621
Ball Valve 2663-2664, 2666-2667, 2688
Barrel 896, 933-934, 936, 2670, 2672-2677
Battery-Operated 2467, 2621, 2631, 2673
Beverage 2638, 2667-2668, 2698
Bilge 679, 2630-2633, 2640, 2647, 2676-2677, 2691
Birotational 2474
Bladder 1824, 1865
Boiler Feed 2652, 2661, 2698
Booster 2633, 2642-2644, 2648, 2650-2653, 2657, 2698
Brine 2648-2649, 2694
Bucket 936-937, 2673, 2676-2677
Calibration 563, 874, 2637
Car Wash 1002, 2668-2669, 2693, 2698
Carbonator 2669, 2696-2698
Carpet Cleaner 2669
Centrifugal 679, 2627, 2630, 2632-2633, 2637-2652, 2657, 2659-2660, 2690-2692
Chemical 896, 936, 2631, 2638, 2642-2643, 2645, 2647-2649, 2663-2669, 2673-2674, 2676-2677, 2688, 2690-2691, 2693, 2695-2697
Chemical Transfer 936, 1002, 2638, 2642-2643, 2645, 2647-2649, 2668-2669, 2674, 2676-2677, 2693
Chiller 2582, 3007
Chlorine 2688
Circulator 2638-2639, 2643, 2648-2649, 2657, 2659-2660, 2691, 2698
Close-Coupled 2643-2645, 2647, 2652, 2657, 2659, 2691, 2696-2697
Compressor 2562, 2568-2569, 2578-2581
Condensate Removal 2582, 2661-2662, 2997, 3007
Condensate Return 2652, 2661
Condiment 2667-2668
Convertible 2653
Cooking Oil 2667-2668, 2697
Coolant 936, 2346, 2463, 2638-2639, 2643, 2645, 2648, 2691-2692, 2694, 2698
DC 2580, 2640, 2669, 2672, 2691, 2693
Decontamination Shower 1824, 1865
Deep Well 2653-2654
Degassing 2581
Desoldering 232, 236
Dewatering 679, 2621, 2627, 2631-2633, 2637
Diaphragm 1002, 2578, 2637, 2663-2669, 2672, 2674, 2677, 2688, 2691
Diesel 936, 2669-2670, 2672-2674, 2676-2677, 2691
Dosing 2667, 2688
Drain 2619-2624, 2626, 2631, 2640, 2661-2662, 2676-2677, 2694
Dredging 2632-2633, 2637
Drum 896, 933-934, 936-937, 2670, 2672-2677, 2695
Eductor 2701
Effluent 2619-2625, 2632-2633, 2695
Engine-Driven 2632-2633, 2637
Evacuation 931, 946, 2581-2582, 3007
Evaporative Cooler 2619-2620, 2691, 2998, 3001
Fertilizer Spray 1002, 2669, 2693
Fire Sprinkler 2698
Flap Valve 2663, 2665-2666
Flex Vane 2630, 2672, 2694
Flexible Impeller 2630, 2672, 2694
Food 2665, 2667-2668, 2673-2675
Foot 946, 955, 2466, 2672
Fountain 2638-2640, 2691
Fuel Transfer 936, 2665, 2669-2670, 2672, 2677, 2691
Gas Detector 1777, 1779-1782
Gas-Operated 2632-2633
Gasoline 936, 2665, 2669-2670, 2672-2673, 2677, 2691
Gear 2474-2475, 2695-2697
Glue 2663-2666
Grease 933-934, 936, 2672
Grinder 2624
Hand 685, 896, 936-937, 955, 1193, 1782, 2461, 2466, 2468-2469, 2656, 2672, 2674, 2676-2677, 2912, 3012
Hazardous Location 2621, 2649
Herbicide Transfer 2633, 2669, 2693
High-Head 2622-2623, 2630, 2642-2645
High-Pressure 933-934, 2467, 2633, 2639, 2693, 2698
High-Temperature 2620, 2697
Hydraulic 382, 853, 946, 1193, 2466-2469, 2472, 2474-2475
Hydronic 2657, 2659-2660
Ice Machine 1460, 2661-2662, 3002
In-Line 2638-2639, 2648, 2659-2660
Insecticide 1002, 2632, 2669, 2693, 2698
Jet 2653, 2701
Kerosene 2669-2670, 2672-2673, 2677
Laundry Tray 2626, 2630
Lever-Action 896, 936, 2672, 2676-2677
Liquid Transfer 679, 896, 936-937, 2630-2633, 2638-2639, 2642-2652, 2673-2677, 2690-2691, 2693-2694
Lubrication 931, 933-937, 2461, 2463, 2647, 2672-2674, 2676-2677, 2691, 2698
Machine Tool . . . 2346, 2638, 2691-2692, 2698
Magnetic Drive 2648-2649, 2697
Marine 679, 2630-2631, 2633, 2640, 2647-2648, 2676-2677, 2691
Metering 2688
Multistage 2650-2651
NSF-Certified 2688-2689, 2691, 2697
Oil 896, 931, 935-937, 2461, 2463, 2663-2666, 2672-2674, 2676-2677, 2691-2692, 2695, 2697, 3012, 3036
Oil Change 2647, 2672, 2691
Oil Transfer 931, 936-937, 2670, 2672-2674, 2676-2677, 2691
Paint Supply 1628, 2674
Parts Washer 2638
Pedestal 2630, 2642-2643, 2645, 2647, 2694-2695
Peristaltic 2688-2690
Piston 896, 2579-2580, 2673-2674, 2677
Pitcher 2656
Plating Solution 2648-2649, 2667
Plunger 2693
Pneumatic 933-934, 936-937, 2674
Pond 2630, 2637-2640
Pony 2630, 2639, 2691
Pool/Spa 2641, 2689
Portable 946, 1824, 2467, 2623, 2630-2633, 2637, 2664, 2666, 2694, 3007
Positive Displacement 679, 2585, 2630, 2637, 2647, 2663-2669, 2672, 2688-2691, 2693-2698
Potable Hot Water 2659, 2691, 2698
Pressure Booster 2633, 2642-2645, 2648-2653, 2691, 2698
Pressure Test 563, 874, 2637, 2822
Pressure Wash 2668-2669, 2693
Progressing Cavity 2647
Railcar Unloading 2649
Recirculating 2346, 2638-2639, 2643-2645, 2647-2649, 2667, 2691-2692, 2694, 2998
Refrigerant Vacuum 946, 2582, 3007
Respirator 1770-1772, 1775
Roller 2693
Rotary 936, 2647, 2670, 2672, 2676-2677
Rotary Vane 2578, 2581, 2670, 2672, 2677, 2698, 3007
RV 679, 2630, 2640, 2691
Saltwater . . . 2623, 2632-2633, 2648-2649, 2694
Sample Draw 1777, 1779-1781, 2647
Sanitary 2668, 2673-2675
Sewage 2621, 2623-2626, 2632-2633, 2637, 2646-2647, 2665
Sewage Ejector 2619, 2623-2625
Shallow Well 2650-2653
Siphon 679, 2630, 2632-2633, 2676-2677, 2695
Slurry 2632-2633, 2637, 2646-2647, 2663-2667

Solids Handling . . . . . 2619, 2623-2625, ... 2632-2633, 2637, 2646, 2665-2666
Solvent. . . . . 2638, 2647-2648, 2663-2667, ... 2673-2674, 2676-2677, 2695
Spray 1002, 1666, 2652, 2669, 2692-2694
Sprinkler . . . 2630, 2632-2633, 2646, 2693-2694
Standby 2621
Straight Centrifugal . . . . . 2642-2643, ... 2645-2646, 2648-2651, 2691
Stub 937, 2674
Submersible. . . . 2619-2627, 2631, 2638-2641, ... 2648, 2654, 2662, 2692
Sump . . . . . 2619-2623, 2625-2626, ... 2631, 2667, 2691
Swimming Pool 2641, 2647, 2689
Test 563, 874, 2637, 2822
Tire. 685, 955
Transfer . . . . . 896, 931, 936-937, 1002, ... 2638, 2643-2644, 2647-2651, ... 2667-2670, 2672-2674, ... 2676-2677, 2690-2691, 2698
Transmission Fluid. 936, 2672, 2674, 2677
Trash 2623, 2627, 2631-2633, 2646
Turbine. 2652
Utility . . . . . 679, 2620, 2630-2633, 2637, ... 2639, 2647, 2677, 2691, 2694
Vacuum . . . . . 563, 946, 2578-2582, ... 2585, 2695, 3007
Washdown. 2640, 2691
Wastewater . . . . . 1824, 1865, 2619, 2621, ... 2623-2626, 2632-2633, 2637, ... 2646-2647, 2649, 2661-2662, ... 2665, 2667, 2689, 2695
Water System . . . . . 2638-2639, 2643, 2646, . . . 2650, 2652-2654, 2661-2662, 2691, 2701
Waterfall 2638-2639
Well 2650-2655, 2689, 2701

PUNCH
Drivers. 676, 852
Sets 758, 821, 852, 2337

PUNCHDOWN TOOLS 365-366

PUNCHES,
Alignment 822
Arch. 821
C4 814
Center 822, 862, 2337, 2425, 2536
D-Shaped. 852-853
Disassembly 814
Drift 821-822, 862
Gasket 821
Hole 816, 821-822, 852-853, 862, 1360
Hollow 821
Hydraulic 2471
Knockout 676, 816, 852-853
Metal . . . . . 821-822, 852-853, 2337, 2356, ... 2358, 2425, 3010
Nail 821
Paper. 1360
Pilot 821-822
Pin 821-822, 862, 2337
Plier. 814
Prick 822
Snap Lock 816
Square. 853
Starting 822, 2337, 2425
Stud. 853
Taper 822
Transfer 821-822
Window 812-813

PURIFIERS,
Air 719, 2363, 3059-3061, 3093
Water. 635

PUSH
Brooms 1539-1540, 1546-1547
Floor Sweepers 1580
Nuts. 2085
Pins 1359
Plates, Door 1978, 2005
Pullers 912-916
Trolleys 1057, 1060-1061

PUSH-BUTTON
Bases. 244-246, 258
Blanking Plugs. 248
Boots 262
Boxes. 240, 248-249, 258, 275
Caps. 242, 255
Circuit Board Adapters. 247
Closing Plates 258
Contact Blocks. . . . . 240, 244-249, 251, ... 253-254, 256-257
Control Stations 240, 249-250, 275, 1125
Controls . . . . . 162-163, 165, 172, 174, ... 240-245, 247, 249-255, 257, 275, 1125
Door Openers. 1978
Enclosures. 240, 248-249, 258, 275, 1979
Labels 371
Lamps 242, 246, 499
Legend Plates 249, 259-260, 275
Light Modules 242, 246
Lock Devices 1978
Lockouts 1946
Locks. 1971-1974, 1980
Modules. . . . . 162-163, 174, 240, 242-249, ... 251, 253-254, 256-257
Operators. . . . 240-245, 247, 251-255, 257, 275
Pins 2321
Safety Covers. 1946
Switches . . . . . 162-163, 240-245, 247, ... 249-255, 257, 259-260, 262, 275, 469

PUSH BUTTONS,
16mm 275
22mm 240-245, 247, 254, 275
22.5mm 240, 247
30mm 251-255, 257, 275
40mm 275
Emergency. 243, 1978
Horn. 966
Illuminated. . . . . 240-245, 247, ... 250, 252-255, 275, 1978
Key-Operated. 241, 275
Metal . . . 240, 242-245, 247, 249-255, 257, 275
Multihead. 243, 245, 247
Nonilluminated . . . . . 240-241, 243-245, ... 247, 250-255, 257, 275
Pendant Station 249, 253, 255
Plastic . . . . . 240-245, 247, 249, 251, ... 254-255, 275, 1978
Station 240, 249-250, 275, 1978

PUSH-PULL
Clamps. 2320
Gauges. 568
Knobs. 2323-2324
Switches 245, 247, 250-255, 257, 275

PUTTY
Hardeners 905
Knives 861, 863, 887-889, 1620
Sticks. 905, 1361, 1884

PUTTY,
Aluminum 2220
Automotive Finishing. 905
Firestop 1884
Plumbing 2819-2821
Reusable 1361
Sealing. . . . . 905, 1884, 2220-2221, ... 2819-2821, 3012
Steel 905, 2220

PVC,
Angle 2209
Sheet 2180, 2192, 2209
U-Channel 2209

Q

QUARTZ
Bulbs . . . . . 494-496, 498-502, ... 507-509, 3079, 3081
Clocks 1374
Halogen Dock Lights 518
Halogen Floodlights. 460, 462
Heaters 3068-3069, 3071, 3079-3080
Light Stands. 521

QUATERNARY TESTERS 632, 2702

QUICK
Change Chucks 699
Change Discs. 2371-2373, 2382
Disconnect Valves 2491, 2717
Disconnects. 383, 2435, 2677, 2717
Exhaust Valves. 2547, 2552-2553, 2555
Links 1073

QUICK RELEASE PINS 2321

R

RACEWAY
Boxes. 304-307, 356
Brackets. 305-306
Connectors. 304-307
Corners 304-307
Dividers 304-306
Faceplates 304-307
Outlet Strips. 304, 403
Straps 306

RACEWAYS,
Dual-Channel. 304-307
Floor. 307, 404-405, 1131
Metallic 304-307
Nonmetallic 304-305, 403
Portable 304, 403
Prewired 304, 403

RACK
Bin Mobile Kits. 1281
Components. . . . . 353-354, 1227-1232, ... 1234-1236, 1238, 1245, 1281, 1383
Decking 1227, 1229, 1231-1235
Guards 1132-1134, 1227-1230
Labels 1230
Posts 1240
Replacement Parts 1231
Shelves . . . . . 1229, 1231-1235, 1242, ... 1246-1249, 1864, 2023

RACKS,
Air Cylinder 1774
Airpot Coffee Server 1439
AV Equipment 2023
Badge 1375
Bar. 849, 1168, 1238-1239, 1307
Bench. 1280-1281, 1289-1291
Bicycle. 1482
Bin Storage . . . . . 745, 1280-1285, 1287-1291, ... 1297, 1305-1307
Blueprint 1347
Boltless 1232-1237, 1239-1240, 1244
Bottle. 652
Bulk Storage . . . . . 1143, 1226, 1231-1233, ... 1238-1240, 1245, 1251-1252
Cable Management 354
Carton Storage. . . . . 1231-1232, ... 1239-1240, 1245
Catalog. 1349-1350, 1383
CD 1358
Chemical Storage . . . . . 1251-1252, ... 1521-1522, 1525
Cleaning Tool 1525
Clothes Drying 1475
Coat 1171, 1341, 1476, 2020
Computer. 1343
Cylinder 1187, 1239, 2411
Dishwasher 1447
Display. 998, 1246, 1330, 1350
Drum Storage 1143, 1864
Dunnage 1252
ESD Safe 1280
Food Service 1248, 1447-1448, 1451
Gravity-Flow 1245
Hard Hat. 1640
Hose. 1016, 1817-1818
Hose Clamp 1307
Kitchen Organizer 1444
Knife 1452
LAN 354, 1343
Literature. 1349-1350, 1383
Modular Storage . . . . . 1239-1240, ... 1280-1285, 1288-1291
Pallet 1226-1228
Pick . . . 745, 1280-1285, 1287-1291, 1305-1307
Pipe 849, 1168, 1238-1239, 1307
Record Storage . . . 1231-1232, 1239-1240, 1245
Reel 849, 1240, 1307
Relay 354
Rod 849, 1168, 1238-1239, 1307
Safety Tag 1939, 1950-1951
Sheet 1168, 1240
Speed. 1448
Sports Equipment 1478
Stacking. 1239-1240
Test Tube 650
Time Card 1375
Tire. 1240
Tool 998, 1330, 2313
Tub. 1297
Tubing 849, 1238, 1408
Turnout Gear 1817
V-Belt. 105
Voice/Data 353-354, 357
Wall 1331, 1358, 1525, 1547
Water Cooler 1825-1826
Wire . . . . . 1155-1156, 1240, 1246-1248, ... 1307, 1347, 1521-1522, 1605
Wire Spool 849, 1167, 1240, 1307
Workstation 1280-1281

RADIAL
Drill Presses. 2345
Ring Installation Tools 2155

RADIANT HEATERS. . . . . 302, 3068-3071, ... 3075-3076, 3079-3080, 3082-3084, 3087

RADIATION
Dampers 2942-2943, 2945
Signs 1921

RADIATOR
Brushes 1545-1546, 3095
Covers 3090
Fillers. 930
Fluids. 903-904, 962
Hoses. 918, 947
Sealants. 903
Steam Traps. 2901-2903, 3038
Tools 918
Valves 2911, 2914, 3037
Vents 3037

RADIATORS 3068

RADIO
Antennas 2029-2032
Base Stations. 2034
Belt Clips 2030-2031
Cables 350, 2024-2025, 2030-2031
Control Receivers 1125, 1375
Ear Plugs 2024
Harnesses/Holsters 2024, 2031
Microphones 2027-2029, 2031-2033
Scanners 2034
Speakers 670, 685
Transmitters. 1125, 1375
Tuners 2030, 2040

RADIOS,
2-Way 2024-2027
AM/FM. 670, 679, 685, 695, 1835, 2033
CB 950, 2033
Charger 670
Clock 2033
Emergency Information 2027
Jobsite. 670, 679, 685, 689, 691, 695
Weather Alert. 2027, 2033

RADIUS
Gages. 2338
Markers 2422

RAGS 911, 1492

RAIL
Brackets 1119, 1308
Car Wheel Chocks 1130
Plugs 1308

RAILING
Fittings 1308
Systems 1133, 1789

RAILINGS . . . . . 1040-1041, 1043, ... 1133-1134, 1308, 1312, 1783, 1789

RAILS,
Bin Holder 1280-1282, 1320
Bolt-On 1133
Conveyor Flow 1111
DIN 216, 394
Dust Barrier 1122
Guard . . . . . 1040-1041, 1043, 1108, 1118, ... 1133-1134, 1308, 1312, 1783, 1789
Hand 1040, 1134, 1308, 1481, 2759-2761
HVAC Roof Mounting 2963
Lift-Out 1133
Linear Motion T-Slot 1118-1119
Power Strip Mounting 1320
Pressure Washer Pump 2693
Pump Retrieval Guide 2625
Safety . . . . . 1043, 1133-1134, 1308, 1312, ... 1783, 1789, 2759-2761
Shelf 1235, 1476
Track Roller 1245
Tubing Mounting 2830
Wall Guard 2006
Warehouse 1133-1134
Workbench 1317, 1320-1321

RAIN
Barrels 1012
Gauges 583
Repellents 909

RAINSHIELDS,
Motor 51

RAINWEAR 965, 1727-1730, 1811

RAKERS,
Joint 892

RAKES 993, 999, 1820

RAMMERS,
Tamping 1009

RAMPS,
Cable 307, 404-405, 1131
Dock 944, 1126-1128
Floor Scale 1426
Hose 307, 404-405, 1131
Safety Cabinet 1872
Spill Pallet 1862-1863, 1866
Truck 944, 1127
Walk 1127
Wrap Machine 1417
Yard 1126

RAMS,
Hydraulic 914, 2468

RANDOM ORBIT SANDERS 678, 688, 725, 2509-2510

RANGE
Connectors 2717
Hood Filters 3052
Hoods 1465, 2955
Replacement Parts 1461

RANGES,
Freestanding Kitchen 1465
Table 1439

RAT POISONS 1018

RATCHET
Extensions 759, 768
Handles (See Ratchets)
Load Huggers 1104-1106
Repair Kits 769, 771, 775
Spinners 769, 771

RATCHETING
Arbor Presses 2357
Breaker Bars 771
Cable Cutters 817, 845
Chain Hoists 1057-1058
Crimpers 381-382, 384, 389, 847
Hoists 1057-1059
Pipe Reamers 871
Pipe Threaders 872
Pullers 1057-1059
Screwdrivers 800-801
Wrenches . . . . . 682, 768-769, 771, 782-785, ... 787-788, 854, 859, 861, 919, 922, ... 2275, 2503, 3010

RATCHETS,
1/4" Drive . . . . . 682, 761, 768-769, ... 784-785, 854, 1102
3/8" Drive . . . . . 682, 759-760, 762-763, ... 768-769, 785, 860-862, 1102
1/2" Drive 682, 763-765, 771, 785, 860, 862
3/4" Drive 766, 772, 862
1" Drive 766, 772
Air 2503
Cordless 682
Insulated 854
Pipe Threading 873
Quick-Release 772
Scaffolding 768-769, 771
Socket . . . . . 758-766, 768-769, 771-772, ... 785, 860-862
Tie-Down 1102

RATEMETERS 225-226, 566-567

RATING PLUGS,
Circuit Breaker 196

RATIONS,
Emergency Food & Water 1837

RAZOR
Blade Scrapers 823, 888, 1551
Blades 809
Knives 808, 891

READING LIGHTS 516, 2359

REAGENTS 631, 634

REAMERS,
Bridge 2259
Center 2256-2257
Chucking 2258
Construction 2259
Deburring 871
Expansion 2258
Hand 814, 871, 2258
Machine 2258
Pipe 842, 871, 873
Spiral Flute 2259
Straight Flute 2258-2259
Tapered 871, 2258-2259
Tire 955
Tubing 871

REBAR
Benders 716
Chain Assemblies 1804-1805
Cutter Replacement Parts 734
Cutters 671, 709, 712, 716
Tying Power Tools 716

RECEIVER TOW EYELETS 958-959

RECEIVERS,
Air 2570-2571
Entrance Alert 2053
Radio Control 1125, 1375
Utility Locator 565
Wireless Data 2328

RECEPTACLE
Adapter Plates 309, 312, 331, 340
Caddy Bags 1525
Caps 310, 328
Covers . . . 309-312, 338-341, 1552, 1554-1556
Faceplates 304, 306-309, 328, 338
Liners 1494
Rim Caddies 1525
Testers 547

RECEPTACLE BOXES,
Lighting Fixture 449, 462

RECEPTACLES,
1-Wire 340
4-in-1 331
Ash 1552
Baseboard Heater 3072
Confidential Document 1556
Decorative 330-333
Duplex 330-333, 337, 1311-1312, 3072
Electrical . . . . . 304, 330-333, 336-342, ... 353, 402-403, 412-414, 1311-1312
Flanged 330, 336-337
GFCI (Ground Fault) . . . 330, 333, 402, 412-413
High-Ampere 332
Hospital-Grade 331-333, 337, 340, 403
Illuminated 333
Isolated Ground 331-333, 337
Limit Switch 264-265, 268
Locking 336-340, 342, 412, 414
Marine 338, 341-342
NEMA 4X 338
Panel-Mount 330, 333, 336-340, 342
Photoelectric Sensor 414-415
Pin and Sleeve 338, 340-342
Prewired 304, 403
Recycling 512, 1558
Sanitary Napkin 1494
Shrouded 338-339, 342
Smoking 1552
Straight-Blade 330-333, 339, 412
Style Line 331
Tamper-Resistant 330-333, 1556
Temporary Power Box 412-413
Thermocouple 230-231
Twist-to-Lock 336-340, 342, 412
USB 332
Wall 330-333, 336-340, 342
Waste 950, 1485, 1552-1558
Watertight 338-342, 413
Weather-Resistant 330-331, 333, 402, 412

RECEPTION STATIONS 1337

RECESSED LIGHTING
Housings 429, 439
Trim 429-430

RECHARGEABLE
Batteries . . . . . 362, 381, 429, 533, 535, ... 558, 606, 614, 665, 667, 672-674, ... 681, 686, 689-690, 692-694, . . . 696, 724, 933, 986, 988, 1004, 1569-1571, ... 1765, 2024, 2027-2029, 2031-2032, ... 2038, 2135, 2496, 2683, 2800, 3011
Flashlights 524-531, 680, 2494, 3009
Spotlights 520-521, 530, 670, 680, 689

RECIPROCATING SAW BLADES 727-728, 2511

RECIPROCATING SAWS . . . . . 666-667, 669, ... 672, 674, 677, 681, 683, 686-687, ... 689-690, 692-695, 726, 2511

RECORD
Storage Boxes 1381
Storage Racks 1231-1232, 1239-1240, 1245

RECORDERS,
Chart 584, 598
Current 551
Humidity 584, 593-594, 598, 3008
Network Video 2045-2046
Power Quality 551-552
Pressure 580, 598
Temperature . . . . . 562, 580, 584, 587, ... 592-594, 598, 3008
Time 1375
Universal Input 598
Video 2045-2046, 2048-2049
Voltage Data 551-552

RECTIFIERS,
Power Supply 1977

RECYCLING
Container Covers 1555-1556, 1558
Containers 512, 1301, 1558
Trucks 1159-1160, 1162, 1172

RECYCLING KITS,
Aerosol Can 1606, 1864
Battery 511, 533
Lamp 511-512
Mercury 511-512
Pharmaceutical Waste 512

REDUCERS,
Acetal Push-to-Connect 2850
Aluminum Air Pipe 2586
Brass Barbed 2849
Brass Compression Tubing 2856, 2859
Brass Pipe 2793-2795, 2854-2855
Brass Tubing . . . . . 2558, 2806, 2849, ... 2852-2853, 2856
Bronze Pipe/Tubing 2802
C-Face 87-90, 93-94
Carbon Steel Pipe 2778
Conduit 315, 320
Copper Pipe/Tubing 2797, 2801-2802
Drain/Waste/Vent 2808-2809
Duct 293, 2921, 2944, 2949, 3098
Ductile-Iron Pipe 2780
Fuse 185, 187
Indirect Drive 91-92, 94
Nickel-Plated Brass Push-to-Connect 2558, 2852
Nylon Push-to-Connect 2557
Nylon Tubing 2557
Plastic Compression Tubing 2856
Plastic Pipe 2808-2809
Plastic Tubing 2557, 2807, 2850, 2856
Polypropylene Push-to-Connect 2850
Right Angle 87-92
Speed 87-94
Stainless Steel Tubing 2788, 2803, 2858
Steel Pipe 2769, 2777, 2804
Wireway 293

REDUCING BUSHINGS 43, 143, 315

REEL
Caddies, Wire 849, 1167
Racks 849, 1240, 1307
Stands 850

REELS,
Cable 396-398, 400, 557, 2435, 2526
Chalk Line 884, 891
Cord 396-398, 400, 522, 2526-2527
Hose . . . . . 400, 937, 1016, 1818, 2435, . . . 2523-2527, 2529, 2743-2744, 2747-2749
Pipe Inspection Camera 866
Steel Wool 1548
Wall 937, 1016, 1818, 2523-2529

REFERENCE
Books 963, 2054
Charts 1941-1942
Thermometers 597

REFLECTIVE
Clothing 1726-1728
Hard Hat Stickers 1640
Pavement Markers 1904
Property Markers 1912
Vests 1828, 1905

REFLECTIVE TAPE,
Photoelectric Switch 282
Tachometer 567
Vehicle 964
Warning 964

REFLECTOMETERS,
Time Domain 554

REFLECTOR
Lamps 430, 488, 492-497, 500, 502, 514
Lenses 978

REFLECTORS,
Automotive 978
Guardrail 1904
Lighting 430, 445, 449, 452
Photoelectric Sensor 282
Post 978, 1912, 2043
Tubing Heater 3087

REFRACTOMETERS 626, 2462, 3012

REFRIGERANT
Charging Meters 3007
Cylinder Taps 3013
Dryers 3015
Evacuation Pumps 946, 2582, 3007
Filter/Dryers 946, 3015
Float Switches 3007
Fluorescent Additives 946, 2494, 3009, 3012
Flush 946, 3012-3013
Gauges 946, 3005
Heat Exchangers 3039
Hoses 3006, 3012, 3094
Leak Detectors 621-622, 946, 2494, 2820, 3008-3010, 3012
Line Caulk 3012
Line Sets 3094
Liquid Level Sensors 3007
Oil Pumps 3012
Pressure Controls 3016-3018, 3026
Recovery Machines 946, 3007
Recovery Tools 3010
Scales 3007
Sight Glasses 3013
Valve Coils 3017
Valve Core Tools 3010
Valves 3006, 3010, 3012, 3015, 3017, 3019, 3094

REFRIGERANTS 3013

REFRIGERATED
Air Dryers 2566, 2587-2588
Incubators 638
Sandwich Prep Tables 1462

REFRIGERATION
Alarm Panels 3018
Brass Flare Fittings 2853-2855, 3017
Capacitors 65-66, 3031
Compressors 3014
Controls 3016-3019, 3025-3026, 3042
Defrost Timers 3018
Fittings 3006, 3010, 3015, 3017, 3094
Gauges 577, 579, 946, 2994, 3005, 3009
Hard Start Kits 3031
Installation Tools 305, 671, 678, 684, 868-871, 2356, 2618, 3010
Lubricants 2568, 3012
Nitrogen Regulators 3010
Oils 2568, 3012
Relays 3031, 3035, 3041, 3043
Replacement Parts 1461
Temperature Controls 3018-3019, 3025-3026
Tubing 2847, 3006, 3015, 3017, 3094
Vacuum Pumps 946, 2582, 3007
Valve Cores 3015
Valve Replacement Parts 3010
Vibration Absorbers 3013
Wrenches 788, 3010

REFRIGERATOR/FREEZER
Coil Brushes 3095
Fan Motors 38-40, 44, 47-48, 61
Replacement Parts 3019
Water Connectors 2718

REFRIGERATORS/FREEZERS
. . . . . 637, 1462-1465

REGENERATIVE BLOWER
Mufflers 2575
Repair Kits 2584

REGENERATIVE BLOWERS 2584

REGISTERS,
Air 3102
Wall 3076, 3085

REGULATOR
Brackets 2594, 2596-2598, 2600-2601
Check Valves 2435
Covers 2594
Gauges 579
Mounting Clamps 2602
Panel Nuts 2594, 2596
T-Handle Conversion Kits 2594

REGULATORS,
Acetylene 2429-2431, 2433, 2436-2437
Air Line 1626, 2428, 2543-2544, 2553, 2594, 2596, 2599-2603
Calibration Gas 1777-1778, 1780, 1782
Compressor 2596
Cylinder 1778, 1780, 1782, 2437
Dial 2596
Electronic Pressure 2596
Flow Control 574, 2429, 2547, 2550-2553, 2555
Flowmeter 2429
Fuel Oil 2889-2890
Gas Pressure 2428-2429, 2433, 3083-3084
Manifold 2542-2544, 2594
Nitrogen (N) 2428-2429, 2437, 3010
Oxygen (O) 2429-2431, 2433
Pneumatic 2543-2544, 2585, 2596, 2600
Precision 2600
Pressure 1592, 1626, 2428-2431, 2433, 2436-2437, 2543-2544, 2594-2596, 2598-2603, 2889-2893, 3017, 3038, 3083-3084
Spray Gun 1626
Temperature 229, 2891
Vacuum 2585
Voltage 205, 208, 213-214, 353
Water 2889-2890, 2892-2893, 3017
Welding 2428-2429, 2433

RELAY
Batteries 224
Clips 216
Dust Covers 219
Enclosures 217-218
Heat Sinks 219
Memory Cards 224
Modules 169, 216, 218-219, 224-225, 278, 415, 1881
Mounting Adapters 162, 170, 216
Panel-Mounting Adapters 162
Racks 354
Sockets 216, 218, 277
Software 224
Switches 215, 217-223, 278, 3035, 3092
Thermal Pads 219

RELAYS,
Air Conditioner 3031, 3035
Alternating 215, 221
Aquastat 3030
Bi-Metallic 170
Blower 3035
Capacity 3041
Control 161-164, 168-172, 216, 218-219, 221-224, 278, 3035, 3041, 3043
Current Sensor 220-221, 3092
Digital 223-224
Electric . . . 161-164, 168-172, 215, 217, 219-224, 278, 288, 470, 3031, 3035, 3041, 3092
Electromechanical 222-223
Electronic Overload 169
Fan 217, 220, 3035
Fire Alarm 2051
Force-Guided 277
General Purpose 215, 217-218, 220
Hockey Puck 162, 164, 219
HVAC 215, 217, 3031, 3035, 3041, 3043
Ice Cube 215
IEC Control 169-172, 218
Line Monitor 221
Line Voltage 215, 217, 219-221, 3035
Load Sharing 221
Logic 224
Low-Voltage 220, 3035
Magnetic Line 3035
Mercury Displacement 220
Miniature 223
Motion Sensor 469-470
Multifunction 222, 3041
NEMA Control 162, 172, 218, 220
Open-Type 217
Overload 161-164, 168-172
Phase Monitor 221
Plug-In 215, 217, 221-223
Pneumatic 172, 3041, 3043
Potential 3031
Power 217-220, 223
Programmable 224, 421
Pump Seal Failure 221
Refrigeration 3031, 3035, 3041, 3043
Reset Timer 222
Reversing 3041
Safety Monitoring 278
Socket-Mount 215, 217, 221-223, 277
Solder Terminal 215, 217, 221-223
Solid-State 162, 164, 216, 219, 222-224, 278
Starting 3031, 3035
Switching 215, 217-218, 220, 222-224, 423, 469, 3035, 3041
Time-Delay 172, 222-223, 3031, 3035
Transformer 3035, 3075
Undervoltage 221, 288
Voltage Sensor 221
Watchdog 222-223

RELIEF VALVES,
Air Compressor 2573-2574, 2894
Boiler 2893-2894
Hydraulic 2471, 2475-2476
Pneumatic 2573-2574, 2603
Pressure 287-288, 563, 2471, 2475-2476, 2573-2574, 2584, 2603, 2688, 2694, 2696, 2893-2895
Safety 287, 2471, 2475-2476, 2573-2574, 2584, 2603, 2694, 2696, 2893-2895
T and P 2893, 2895
Thermal 2694
Vacuum 2574, 2584, 2895, 2908

REMOTE
Bulb Sensors 3026, 3030, 3040
Laser Detector Displays 881
Optical Sensors 567, 1125
Power Supplies 469
Speaker Antennas 2037
Speaker Microphones 2028-2030
Temperature Sensors . . . 586, 3021, 3026, 3037
Thermometers 537, 586-588, 591-592, 594-595, 597, 601-603, 610, 615

REMOTE CONTROL
Batteries 532
Locks and Accessories 1125, 1976

REMOTE CONTROLS,
Door 1125, 1978
Fan 3101
Flowmeter 2683
Lift 1183
Presentation 1353
Spotlight 971
Television 2022
Welding 2419

REMOVERS,
Adhesive 1517, 1519, 2216, 2227, 2236
Asphalt 1519
Bulb Base 511
Carpet Spot . . . 908, 910, 922, 1517, 1519-1521
Caulk 1519, 2236
Decal 2216
Floor Finish 1521, 1523
Flux 232
Gasket 2216, 2227
Graffiti 1519, 1613, 2446
Grease 901, 1519-1520, 1522, 2446
Gum 1517, 1519, 2446
Ink 910, 1517, 1519, 1613
Lacquer/Varnish 1613, 2446
Lamp Base 511
Layout Fluid 2427
Limescale 910, 1503-1504, 1520-1521, 2702, 2704, 2707, 3011-3012
Manhole Cover 1066, 1783, 1858
Mark 1519, 1522
Mold and Mildew 1503, 1519
Oil Stain 1517
Paint 910, 1519, 1613, 2216, 2446
Rust 910, 1503, 1519, 1600, 2702, 2963
Scale 910, 1503-1504, 1520-1521, 2702, 2704, 2707, 3011-3012
Screw 2260
Sealant 1519, 2216, 2236
Splinter 1830, 1835
Stain 908, 910, 922, 1481, 1503, 1517, 1519-1521
Staple 1360, 1399
Stud 2260
Tape 1517, 2216
Thermostat Cover 3040
Wallpaper 889, 1622
Wheel Cover 953

RENEWALS,
Flint 2431

REPAIR KITS,
Accumulator 2494
Air Compressor 2580
Air Dryer 2587, 2589
Air Motor 2664, 2666-2668
Automotive 905, 916, 953, 955
Backflow Valve 2904-2906
Belt 108
Compressor 2580
Door Frame 1998
Faucet 2727-2728, 2747-2750
Hose Reel 2529
Hydraulic 2468-2469, 2494
Pilot 2908, 3038
Pneumatic Actuator 289
Polybag Sealer 1406
Pump (See Pump Repair Kits)
Ram 2468
Ratchet 769, 771, 775
Roof 2963
Shrink-Wrap System 739, 1418
Steam Trap 3038
Thread 2137-2138
Tire 955
Toilet 2754, 2756-2757
Valve 2544, 2546, 2587, 2747-2748, 2750, 2892, 2904-2906, 2908-2909, 3010
Water Hose 1013
Welding Hose 2424, 2534

REPAIR MATERIALS,
Asphalt 1630-1633
Auto Body 905-906, 2055
Concrete 1597, 1631-1634, 2172
Masonry 1597, 1634
Tire 953, 955

REPEATERS,
Wireless 2049

REPELLENTS,
Animal 1018-1020
Insect 1022-1023, 1829
Rain 909

RESCUE
Bags 1786
Blankets 1823, 1833, 1835, 1837
Chairs 1821
Devices 1786-1787

Glass Breakers. 812-813
Gloves 1807, 1815
Harnesses 1807
Helmets 1637, 1807
Hooks. 813, 1481, 1711
Knives 812-813
Lanyards 1786, 1806
Mats. 1821
Poles 1786
Ropes. 1097-1098, 1786
Saw Blades 720-721
Stretchers 1821-1822
Vests 1809
Water Gear. 1809-1810

RESERVOIRS,
Air/Oil. 2463
Air-Operated 2465
Constant Level. 2463
Electric. 2463, 2465
Gravity 2463, 2465
Hydraulic Oil 2473, 2495
Manual. 2465
Oil 2463, 2465, 2473, 2495

RESET BARS,
Overload Relay. 169

RESIDENTIAL
Air Cleaners 719, 2363, 3059-3061, 3093
Dehumidifiers 3062, 3093
Fans. . . 2923-2924, 2942-2945, 2948, 2967-2968
Gas Furnaces. 3091
Gas Heaters 3089, 3091
Heaters . . . . . 2942-2943, 3068-3069, ...3071-3075, 3085, 3089-3091
Humidifiers 3059, 3061, 3092
Thermostats. . . . . .3020-3024, 3026, 3028, ...3034-3035, 3071-3072, 3077, 3091
Timers 419-420, 3018

RESISTORS 65

RESPIRATOR
Adapters . . .1761, 1764-1765, 1770, 1772, 1775
Air Coolers 1769-1771
Air Heaters. 1769-1771
Air Hoses 1765, 1768-1772
Air Pumps 1770-1772
Air Regulating Valves. 1769
Backpack Attachment Kits. . . 1761, 1763, 1765
Bags/Cases 1773-1775
Batteries 1764-1766, 1768, 2407
Belts/Suspenders 1764, 1768
Blasting Helmets 1771-1772
Blowers 1764-1765, 2407
Canisters 1762, 1768
Cartridges 1760-1763, 1765, 1768
Conversion Kits 1763, 1768
Couplings. 1765
Cylinders 1773
Faceshield Covers . . . . . .1761-1762, 1766, ... 1769, 1771, 2405
Filter Holders & Pads. 1758, 1760-1763
Filters. 1758, 1760-1764, 1766, 1771
Fit Tests 1775
Flow Control Valves 1770
Germicidal Detergents. 1775
Harnesses/Holsters 1764
Head Bands & Covers 1765, 1768-1771
Hoods. 1764-1765, 1768-1773, 1775
Lens Covers. 1760-1762, 1766, 1769
Masks 1758-1763
Power Cords/Supplies 1764
Prefilters 1761-1763
Pump Packages. 1765, 1772
Shower Covers. 1768
Shrouds 1766
Spectacle Kits 1760-1763
Test Solutions 1775
Training DVDs/Videos. 1775
Tubing 1765, 1768-1772
Wipes. 1775

RESPIRATORS,
Acid Gas. 1759, 1761
Air Line 1770-1772
Air-Purifying. 1760-1770, 1772, 2407
Blasting Helmet 1771-1772
Continuous-Flow 1763, 1771-1772
Disposable 1738, 1758-1761
Dual-Canister. 1760-1763, 1765, 1770
Dust 1738, 1758-1760, 1762
First Responder 1764, 1767, 1773
Full-Facepiece. . . . . .1760-1763, 1765, ... 1770, 1772-1773
Gas Mask. 1762, 1768
Half-Mask 1760-1763, 1772
Hooded 1764-1765, 1767, 1773
Mist 1759
Mouthpiece 1773
Multi-Gas Vapor 1759
Organic Vapor 1759, 1761
Paint 1761, 1763, 1769
PAPR (Powered Air Purifying Respirator) 1763-1768, 2407
Particulate 1738, 1758-1760, 1763, 2407
Pesticide 1761, 1763
Powered. 1764-1769, 2407
Reusable 1760-1763, 2407
Sanding 1761-1762
SCBA (Self-Contained Breathing Apparatus) 1773
Supplied-Air. 1763, 1769-1773
Welding . . .1758-1763, 1766-1767, 1772, 2407

RESPIRATORY COOLING VESTS 1828

RESTAURANT
Air Filters. 3052
Barware/Glassware 1444-1445
Carts . . . . . 1148-1149, 1155-1156, ... 1445-1446, 1448
Casters. . . . . 1195, 1197, 1199, 1202-1206, ... 1209-1210, 1212-1213
Dinnerware 1445
Doors. 1121-1122
Reverse Osmosis (RO) Systems. 2702
Water Filter Cartridges. 2703-2710
Water Filters 2702, 2704-2705

RESTORERS, TIRE LETTERING. 954

RESTRAINTS,
Beard. 1709, 1731
Transport 1822

RESTRICTORS,
Pneumatic In-Line 3040
Soda Blaster 2404

RESTROOM
Baby Changing Stations. 1495
Cabinets. 1495
Cleaners. . . . . 1503-1504, 1510-1511, 1513, ... 1515, 1517, 1519-1523, 2446
Cleaning Machines 1578
Disinfectants . . . . . 1503-1504, 1510-1513, ... 1517, 1521-1523, 2446
Equipment . . . . . 1444, 1485-1489, 1493-1494, ... 1498, 2760-2761
Fan/Lights 2942-2943
Fans. 2942-2945, 2947-2948
Faucets 2733-2739, 2741-2742, 2760
Heaters 2942-2943, 3071, 3073-3075
Mirrors. 1495, 2760-2761
Shelves 2760-2761
Sinks 2725-2728, 2760
Stall Components 2761-2762
Ventilators 2942-2945, 2947-2948

RESTS, ARM & FOOT 1335, 1481

RESURFACER EPOXY 2220-2221

RETAINERS,
Air Tool. 2514
Chisel. 2513-2514
Eyewear. 1665
Spring 2512, 2514
Window 2055
Wiring Device. 276, 317

RETAINING
Compounds 2223
Nuts. 2055, 2085
Ring Applicators. 2155
Ring Pliers 843
Rings . . . . . 776-777, 779-781, 2055, ... 2085, 2155-2157
Washers. 2085

RETICLES 2340

RETRACTABLE
Barriers 2042-2043
Clotheslines. 2746
Lanyards 1787, 1799-1802

RETRACTORS,
Key. 1966
Security Badge 1966, 1970
Tool 1966, 2514

RETRIEVAL SYSTEM
Bases. 1786
Hoists/Winches 1081-1083, 1478, 1787
Masts. 1786
Mounts. 1786

RETRIEVAL TOOLS
. . . . . 802, 824, 830, 1066, 1787, 2173

RETROFITS,
Hand Dryer. 1493
Lighting Fixture 428, 430, 432

REVERSE OSMOSIS SYSTEMS . . .2702, 2705

RH (RELATIVE HUMIDITY) METERS
. . . .571, 584, 587, 593-595, 600, 607, 619-621

RIBBONS,
ID Card Printer. 1970
Label Machine . . . . . 367, 369-371, ... 1405, 1927-1931
Time Clock. 1375

RIDE-ON FLOOR MACHINES 1580

RIFLE SCOPES. 2041

RIGGING PLATES. 1807

RIGHT ANGLE
Drills & Drill Kits. . . . . .665, 668, 675, 682, ... 686, 690, 692, 697, 703, 2504
Gearmotors 77-80, 85-86
Rotary Hammer Attachments 710

RIGHT-TO-UNDERSTAND (KNOW)
Binders 1942
Labels 1940-1941
Numbers 1933, 1937
Placards. 1937, 1940
Posters. 1941
Signs 1921
Stations 1942

RIM
Caddies 1525
Cylinders 1996
Removing Tools 953-954

RING
Blowers 2584
Buoys. 1810
Compressors 2584
Cutters. 1830
Frame Exhaust Fans 2930
Panel Air Filters 3052, 3058
Pliers 843
Terminals. 381, 383, 385

RINGERS, TELEPHONE 1885, 2036

RINGS,
Backup. 2174
Barrel. 1139
C- 2156, 2837
Cable 318
Drum 1139
E- 2155
Extension. 308
Hog 2837
Hoist 1068-1069
Key. 814, 829, 1935, 1964, 1966
Load. 1069
Motor Mounting 2658
Pintle Hitch Lunette 958, 961
Plaster 308, 320
Press 2800, 2805
Retaining . . . . . 776-777, 779-781, 2055, ... 2085, 2155-2157
Sealing. 322
Self-Locking 2157
Spiral 2157
Split 2157, 2747
Towel 2760

RISER
Cables 349-350, 352
Clamps. 2827
Connectors. 2764
Stakes 2764
Wiring Kits 1316

RISERS,
Bench. 1319
Electronic. 1317
Heat Pump. 3094
Lawn Sprinkler 2764
Steel Tubing. 2617
Table 1349
Wheel. 944, 1128
Workbench. 1316-1317

RIVET
Busters 2513
Clamps. 2135
Guns. 684, 2135-2136, 2505-2506
Hammer Chisels 2512, 2514
Nut Setters. 2136
Nuts 2136
Tool Nosepieces. 2135
Tools . . .303, 684, 2135-2136, 2505-2506, 2513
Washers. 2135

RIVETERS,
Cordless. 684, 2506
Pneumatic 684, 2135, 2505-2506, 2512

RIVETS,
Blind 2131-2134
Nylon 303
Push-In 2055

ROAD
Bumps 1131
Flares. 1905-1906
Rakes. 999
Salt 994
Signs 1915, 1917

ROADWAY LIGHTING. 455-458

ROBE HOOKS. 2019-2020, 2760-2762

ROBOTIC
Cable Connectors. 407
Cables 345, 348
Pool Cleaners. 1481

ROCK
Drill Bits. 711
Drills 2513
Picks 827, 999

ROCKER SWITCHES
. . . . . .260, 262, 329, 465-467, 470, 2916, 2949

ROCKERS, LABORATORY 648

ROD
Anchors 318, 2147, 2172
Clamps. 392

Couplings 316, 323, 2084, 2147
Cutters 671
Drivers, Demolition Hammer 713, 715
Ends 132, 2077
Hangers 318, 2147, 2168, 2828
Racks 849, 1168, 1238-1239, 1307

RODENT CONTROLS 1017-1020

RODS,
Alloy Steel 2186
Aluminum 2184, 2419
Bin Locking 1289
Brazing 2432
Builder's 881
Carbon Steel 2186-2187, 2419, 2432
Closet 1476
Coat Rack 1171
Cutting 2422
Drill 2187
Fiberglass 2197
Filter Support 3058
Float 291
Ground 323
Leveling 881
Plastic 2197, 2209-2210, 2212-2214
Shower 2746
Spray Booth Filter 3058
Stainless Steel 2188, 2419
Threaded 316, 2144-2146, 2172, 2197
Welding 2417, 2419, 2432

ROLL
Files 1347
Paper Dispensers 1321
Pin Punches 821-822

ROLL GROOVERS 872

ROLLER
Cleaners 1613, 1620
Conveyors 1109, 1113, 1116
Covers 907, 1111, 1618-1620
Frames 907, 1245, 1618-1620
Mops 1531
Pumps 2693
Tables 1113, 1181
Work Stands 1113, 2351, 2425

ROLLER BEARING CONES & CUPS 138

ROLLER BEARINGS 142-143

ROLLER CHAIN
Detachers 117
Links 116-117
Pullers 117
Sprockets 118-120
Tensioners 120-121

ROLLER CHAINS 116-117, 122

ROLLER KITS,
Machinery 1193
Paint 907
Pump 2693

ROLLERS,
Blast Cabinet Wheel 2402
Conveyor 1110, 1112, 2351
Dolly 1193
Door 1123-1124
Fountain 1403
Ink 1403, 1450
Linoleum 891
Machinery 1192-1193
Paint 907, 1618-1620, 1629
Seam 891, 1622, 2963
Track 139

ROLLING
Air Circulators 2920-2921, 2923
Cabinets . . . . . 741-744, 747-749, 945, 1149, . . .1169-1170, 1172, 1263, 1271-1272, 1328
Fans 2920-2921, 2923
Ladders . . . . . 1025, 1027-1028, 1034-1039, ... 1041-1042, 1047-1048
Scaffolds 1043-1044
Waste Receptacles 1556
Work Platforms . . . . . 1032-1033, ... 1042-1046, 1049

ROLLS,
Abrasive 911, 2367-2370, 2381
Air Filter Media 1624, 3057-3058
Buna N 2202
Butyl 2202
Calculator Paper 1356
Cartridge 2381
Cash Register Paper 1356
Clean and Finish 2367-2368
Cork 1373
EPDM (Ethylene Propylene Diene Monomer) 2204
Foam 1413, 2199-2200
Foil 1449, 2185
Gum Rubber 2204-2205
Hypalon 2204
Neoprene 2203
Nitrile 2202
Paint Collector 1624, 3058
Plastic 1099, 1413
Plate 2355
Rubber 2203, 2205
Shim 2179
Silicone 2205
Sorbent 1527, 1846-1854
Spiral 2381
Tool 755, 854
Vinyl 2203
Viton 2204
Wrench 755

ROOF
Anchors 1790-1792, 1806
Caps 2949, 3096
Clips 3067
Coatings 1630, 2724
Curb Adapters 2963
Dampers 2938
Deicing Cables 3067
Drains 2725
Ducting Kits 2949
Equipment Rails 2963
Fall Protection Systems 1789, 1806
Fans 2952-2961, 2964-2968
Flashing 2724, 2963
Ladder Cages 1028, 1049
Ladders 1030, 1040, 1049
Pipe/Duct Supports 2825
Rakes 993
Repair Kits 2963
Sealants 1630, 2230-2231, 2724, 2963
Shovels 998
Ventilators 2952-2962, 2964-2966, 2968

ROOF CURBS,
Nonventilated 2963
Ventilated 2962

ROOFING
Brushes 1544
Hammers 827
Nailers 2499
Nails 2111, 2499
Screwdrivers 696
Staplers 890, 2501
Tape 1630, 2963

ROOFING, ROLL 1630, 2963

ROOM
Air Conditioners 354, 2921, 2990-2998
Dividers 1121, 1352
Heat/Cool Units 2990-2995
Heat Pump Units 2994-2996
Heaters 3068-3075, 3085, 3090

ROPE
Anchors 1107, 1481
Grabs 1788, 1790, 1806
Guides 1807
Hoists 1054, 1059
Lights 429, 979

ROPES,
Arborist 1098
Braided . . . 847, 1084, 1095-1098, 1102, 2656
Cable Puller 847
Climbing 1096, 1098
Cotton 1095, 1097
Kernmantle 1097-1098
Lifeline 1097-1098, 1790
Manila 1095, 1097
Nylon 847, 1095-1098
Polyester 1084, 1096-1098, 1102
Polyethylene 1098
Polypropylene 1084, 1096-1097, 1102, 2656
Rescue 1097-1098, 1786
Rigging 1098
Sash 1095-1096
Static 1095-1098
Tow 1084
Truck 1096, 2656
Twisted 1095-1098
Well 2656

ROTARY
Actuators 2474, 3041
Bins 1305, 1307
Brushes 724, 1117, 1578-1579, 1581-1583
Cleaners 1593
Cutting Mats 814
Deburring Tools 2298-2300
Evaporators 635
Gear Pumps 2696-2697
Joint Cartridges 2846
Joint Elbows 2846
Lasers 879-880
Pumps 936, 2647, 2670, 2672, 2676-2677
Seals 2701
Switch Boots 262
Switches . . . . . 242, 246-247, 253-254, ... 256, 259-260, 465
Table Clamp Kits 2316
Unions 2846

ROTARY CUTTERS 724, 729, 814, 2392

ROTARY HAMMER
Adapters 710, 714
Chisels 712-715
Drill Bits 711-713, 2161
Drill Chucks 710, 713
Spades 713

ROTARY HAMMERS
. . . . . 665, 667-668, 675, 683, 686-687, ... 690, 693, 710, 714

ROTARY SCREW COMPRESSOR
Belts 2567
Pumps 2647

ROTARY SCREW COMPRESSORS
. . . . . 2562, 2565-2566

ROTARY TOOL
Bits 724, 729, 2298-2300, 2392
Brushes 724
Chucks 724
Cutters 724, 729
Drums 724
Files 2298-2300
Mandrels 724
Points 724, 2392
Sanders 677, 688, 724
Stones 724, 2392
Wheels 724, 729, 2380

ROTARY TOOLS,
Corded 687, 724
Cordless 677, 688
Flexible Shaft 724
Right Angle 724

ROTARY VANE
Air Motors 2577
Anemometers 543, 571, 620
Pump Replacement Parts 2698
Pumps . . . . . .2578, 2581, 2670, 2672, ... 2677, 2698, 3007

ROTATORS, DRUM 1143, 1146

ROUND-HEAD SCREWS
. . . . .2072, 2097-2098, 2102, 2104-2106, 2108

ROUND SLINGS 1076

ROUTER BITS 731, 2297, 2299

ROUTERS,
Pneumatic 724
Power 731, 733
Table 2362
Trim 729
Wireless 666

ROW SPACERS,
Pallet Rack 1227-1228

RTD
Calibrators 562
Thermometers 225, 597

RUBBER
Adhesives . . . . . 953, 955, 1361, 2216-2217, ...2221, 2225-2226, 2228-2229, 2233
Bands 1359
Edging Trim Seals 2206
Locking Gaskets 2206
Primers 2221, 2223
Protectants 909-910, 953, 2221
Repair Supplies 953, 955, 2221

RUBBER,
Buna N 2202, 2207
Butyl 2202
Cord 2206
Edging 2206-2207
EPDM (Ethylene Propylene Diene Monomer) 2199, 2204, 2206-2207
Food-Grade 2202-2203
Hypalon 2204
Military Specification 2204, 2207
Natural Gum 2204-2205
Neoprene 2199, 2201, 2203, 2207
Nitrile 2199, 2202, 2207
SBR (Styrene Butadiene) 2199, 2201, 2205, 2207
Sheet 2199-2205
Silicone 2199-2200, 2205, 2207
Spring 2203
Strip 2200, 2202-2205
Vinyl 2203
Viton 2204

RUBBING
Bricks 892, 2393
Compounds 910

RUGS,
Bathroom 1473
Sorbent 1850

RULERS 814, 877, 884, 950, 1359, 2335

RULES,
Aluminum 105, 884
Belt 105
Clip 884, 2335
Folding 877
Hook 2335
Measuring . . . . . 105, 848-849, 875-877, ...884, 950, 1359, 2330, 2334-2335, 2338
Metric 884, 2335
Pocket 884, 2335
Steel 884, 2330, 2335, 2338
Tape 848-849, 875-876, 2837
Wood 877

RUNNERS,
Floor 1099-1100, 1623, 1890-1896, 1898

RUST
Converters 906, 1600

Inhibitors . . . . . 380, 901, 906-907, 922, ... 1519, 1600-1603, 1606-1608, ... 2342, 2427-2428, 2438-2439, ... 2445, 2458, 2702
Penetrants 901, 2438-2439, 2442, 2445
Preventives . . . 380, 901, 906-907, 1601-1603, ... 1606-1608, 2185, 2428, ... 2438-2439, 2445, 2456
Removers . . . 910, 1503, 1519, 1600, 2702, 2963

S

S-HOOKS 318, 1246, 2020, 2073

S-TRAPS 2722

SADDLE
Clamps 317, 2680, 2818
Thresholds 2002
Valves 2913
Vents 1784-1785

SADDLES,
Pipe Support 2832
PVC Pipe 2821

SAFES 1344, 1968

SAFETY
Banners 1907
Barriers 1132, 1134
Belts 1798
Cabinets 1868-1873
Cables 274
Cans 1874-1876
Drench Showers 1824, 1842-1844
Electrical Lockouts . . . . . 199, 328, ... 1945-1946, 1948, 1952
Flags 950, 1907
Glasses 1650-1664, 1667, 1707
Goggles 1663, 1667-1668, 1709
Grating 1047, 1900, 2195-2196
Headgear 1639
Kits 965, 1707, 1709, 1831-1835, 1905
Knives 808, 810-813, 891, 1401, 1417
Labels 368, 370, 1930, 1937, 1940-1941
Ladders . . . . . 1025-1028, 1030, ... 1034-1042, 1044-1049
Lifelines . . 1787-1788, 1790, 1799-1802, 1806
Lockout Kits 1948-1953
Mats 278, 1711, 1895-1898
Mirrors 1495, 1913-1914, 2760-2761
Posters 1709, 1941-1943
Stairs 1041, 1049
Stop Controls . . . . . 243, 245, 247, 250-255, ... 274-275, 278
Switch Hardware 160, 169, 175, 198
Switches . . . . . 160-162, 164, 168, 175-176, ... 263, 274, 276-277, 290, 298, 342, ... 1978, 2564, 3016, 3034, 3071, 3075
Tags 1936, 1938-1939
Tape 964, 1395, 1673, 1900-1903, 1907
Training Materials . . . . . 963, 1032, 1709, ... 1773, 1775, 1940-1944
Vests 1724-1725, 1828, 1905

SAFETY CHAINS,
Towing 958, 1107

SAFETY CONE
Lights 1527
Signs 1527, 1911
Weights 1527, 1552, 1911

SAFETY CONES 1527, 1910-1912

SAFETY VALVES,
Air 2553, 2573-2574, 2595, 2601, 2894
Gas Pilot 3032
Pressure-Relief . . . . . 287, 2471, 2475-2476, ... 2573-2574, 2584, 2595, 2601, ... 2603, 2694, 2696, 2893-2895
Vacuum 2574, 2584, 2894

SALAMANDERS 3070, 3083-3084

SALT
Meters 627
Spreaders 951, 995-996

SALT,
Water Softener 2702

SALTWATER PUMPS
. . . . . 2623, 2632-2633, 2648-2649, 2694

SALVAGE DRUMS 1138, 1861

SAMPLERS,
Drum & Water 633

SAMPLING BAGS,
Laboratory 656

SAMPLING TUBES,
Gas Detector 1779-1780, 1782
HVAC 1780, 2051, 3029

SAND, JOINT 1632

SANDBAGS 1860

SANDBLASTER
Cabinets 2402
Guns 2402-2404
Helmets 1771
Hoses 2402, 2608
Kits 1592
Media 2404
Nozzles 2402-2403
Respirators 1771

SANDER
Discs 911, 1583, 2370-2376, 2382
Replacement Parts 2510

SANDER/GRINDER
Abrasive Discs 2370-2373, 2377-2379
Brushes 862, 2394-2398, 2400, 2618
Guards 722
Pads 725, 2374, 2376

SANDER/POLISHERS 677, 688, 724-725

SANDERS,
Air 2509-2510
Angle . . . . . 665, 677, 688, 691, 695, 719, ... 721-722, 725, 2509
Bandfile 723
Belt 723, 725, 2360, 2362, 2510
Belt and Disc Combination 2360-2362
Bench 2361-2362
Cordless 678, 688
Disc 678, 688, 725, 2361-2362, 2509-2510
Drum 2362
Drywall 687, 724-725, 889
Dual-Action 2510
Electric . . . . . 687, 691, 719, 721-722, ... 724-725, 2360-2362
Finishing 725, 2509-2510
Hand . . . . . 677, 681, 683, 687-688, 695, ... 721-722, 889, 911, 2366-2367, 2369
High-Speed 2509-2510
Orbital 725, 2509-2510
Oscillating 683, 687, 695, 724-725, 2362
Palm 725, 2510
Pneumatic 2509-2510
Pole 725
Random Orbit 678, 688, 725, 2509-2510
Rotary Tool 677, 688, 724
Shop 2360-2362
Straight-Line 681, 683
Vacuum 725, 889, 2510
Vertical 2509

SANDING
Hand Pads 911, 2367, 2369
Respirators 1761-1762
Sheets 911, 2366, 2368

SANDPAPER
Belts 2364-2365
Blocks 911, 2366-2367
Sheets 911, 2366, 2368

SANDPAPER,
Drywall 2368
Fiber Disc 2371-2372, 2375-2376, 2382
Hook-and-Loop 911, 2370, 2373, 2382
Paper Disc Roll 2370
PSA (Pressure-Sensitive Adhesive) Disc 911, 2370
Random Orbit 2370
Vacuum Hole Disc 2370

SANITARY
Fittings 2788, 2809-2810
Gaskets 2789, 2801
Gauges 576
Headwear 1709, 1731, 1738
Headwear Dispensers 1732
Napkins 1494
Pressure Gauges 576
Pumps 2668, 2673-2675
Receptacle Liners 1494
Valves 2789

SANITIZER
Accessories 1499, 1514, 2743
Test Kits 631, 1480

SANITIZERS,
Bleach 1512, 1517
Food Service 1510, 1514, 1520, 1522
General Purpose . . . . . 1509-1514, 1517, ... 1520-1522, 2446
Hand 1498-1500, 1514, 1831

SANITIZING SOAPS 1496, 1498, 1501

SAW
Cases 1006
Chains 1004
Protractors 884
Replacement Parts 734
Table Stands 733
Tension Gauges 2351

SAW BLADE
Guards 2350
Sets 727, 730, 800

SAW BLADES,
Asphalt 720
Band 2351-2354
Bimetal . . . . . 727-728, 730, 736, 886, ... 2352-2354, 2511
Bow 1006
Brick-Cutting 727
Carbide Grit 724, 729-730, 734-735
Carbide-Tipped 730, 734-735, 2352
Carbon Steel 730, 736, 2351, 2353
Ceramic-Cutting 727
Circular 720-721, 734-735
Cold Saw 736
Concrete 719-721
Contour-Cutting 2352
Coping Saw 886
Cut-Off 719-721
Demolition 719-720, 727-728, 2511
Diamond 719-721, 727, 730
Drywall 724, 727-728, 730
Fiberglass-Cutting 727
Glass-Cutting 730
Grout Saw 724
Hacksaw 727-729, 886
High-Speed Steel 730
Jamb Saw 891
Jigsaw 730
Masonry 719-721, 727
Meat-Cutting 2351
Metal-Cutting . . . . . 720-721, 727-730, ... 734-737, 2351-2354, 2511
Miter 730, 734-735
Oscillating Tool 724
Plaster-Cutting 727-728, 730
Plastic-Cutting . . . . . 727-728, 730, 734-736, ... 886, 2353, 2511
Pruning 1005
PVC 728, 886
Reciprocating 727-728, 2511
Rescue 720-721
Sawzall 727-728
Stone 727, 730
Table 734-735
Tile 727
Track 735
Tungsten Carbide 727
Wood-Cutting 724, 727, 734-735

SAWHORSES 886, 1031

SAWS,
Air 729, 2511
Arbor 666, 677, 733
Asphalt 673, 717-718
Band 669, 677, 683, 687, 736, 2349-2350
Block 717
Bow 1006
Brick 673, 717-718
Ceramic 717
Chain 679, 717, 1004
Chop 736
Circular . . . . . 666-667, 669, 674, 677, ... 683, 686-687, 689, 694-695, 717, ... 724, 731-732, 736
Cold 736
Compass 886
Compound Miter 666, 669, 677, 688, 732
Concrete 673, 717-718
Coping 886, 889
Cordless . . . . . 666-667, 669, 672, 674, ... 677, 679, 681, 683, 686-695, 1004
Crosscut 886
Cut-Off 687, 717, 724, 736
Drywall 886, 889
Fingertip 1830
Folding 886, 1006
Framing 724, 731-732
Grout 891
Hack 729, 886
Hand 800, 814, 886, 889, 1006, 1830
Hole 706-708, 816, 851, 2813
Horizontal 2349
Jab 800, 886
Jamb 886, 891
Jig 669, 677, 683, 687, 691-692, 695, 730
Keyhole 800, 889
Masonry 673, 717-718
Metal-Cutting . . . . . 677, 687, 695, 717, ... 729, 736, 886, 2349-2350
Miter 666, 669, 677, 688, 732, 2349
Panel 733
Plywood 666, 733
Pneumatic 729, 2511
Pocket 814
Pole 1005
Pruning 1005-1006
PVC 886
Reciprocating . . . . . 666-667, 669, 672, ... 674, 677, 681, 683, 686-687, ... 689-690, 692-695, 726, 2511
Sabre . . . 669, 677, 683, 687, 691-692, 695, 730
Scroll 729
Spiral 729
Table 666, 677, 717, 733
Tile 717, 891
Track 666
Trim 724, 731-732
Walk-Behind 718
Wallboard 886, 889
Wet 673, 717-718, 2349
Wood-Cutting . . . . . 677, 695, ... 717, 732, 886, 2350
Worm-Drive 732

SAWZALL BLADES 727-728

SBR (STYRENE BUTADIENE RUBBER)
. . . . . 2199, 2201, 2205, 2207

SCAFFOLD
Braces 1043
Casters 1043, 1210-1211
Frames 1043

Guardrails 1043
Hardware 1043
Height Extensions 1043-1044
Hoists 1044
Leveling Jacks 1043
Nails 2111
Outriggers 1043
Pins 1043
Planks 1028, 1040, 1043
Ratchets 768-769, 771
Storage 1044
Toe Boards 1043

SCAFFOLDS 1043-1044

SCALE
AC Adapters 1430
Pans 644
Platforms 1426
Ramps 1426
Removers 910, 1503-1504, 1520-1521, 2702, 2704, 2707, 3011-3012
Replacement Parts 644
Stands 1399
Thermometers 589
Weight Indicator Displays 1426
Weights 645, 1430

SCALERS,
Air 2512
Chisel 713, 862, 2512, 2514
Video 358

SCALES,
Agricultural 1429
Bathroom 1474
Beam 1425, 1477
Bench 644, 1425-1430, 1455
Checkweighing . . . 644, 1425-1426, 1428-1430
Commercial 644, 1425-1430
Compact 644, 1426-1430, 1455
Computer-Interface 644, 1425-1427
Counting 644, 1425-1426, 1428-1429
Crane 1065
Dial 1429, 1455, 1474
Digital 644, 1065, 1425-1430, 1455, 1474, 2335, 3007
Dock 1429
Drum/Barrel 1425
Dynamic/Animal Weighing 644, 1425, 1427-1428
Electronic 644, 1425-1430, 1474
Health 1474, 1477
Floor 1425-1426, 1477
Food 644, 1428-1430
Force Measurement 568, 1429
Handheld 1430
Hanging 1065, 1429
Hoist 1065
Horizontal 1429, 2335
Inch 2335, 2340
Industrial 644, 1065, 1425-1430
Laboratory 644, 1425-1426, 1428-1430
Legal For Trade 1426, 1430
Mailroom 644, 1379, 1427, 1429
Measuring 1428, 2335, 2340
Mechanical 1425, 1429, 1455, 1474, 1477
Memory 644, 1427
Metric 644, 1426, 1428-1430, 1477, 2335, 2340
Moisture Analyzing 644
Pallet 1426
Physician 1477
Portable 644, 1065, 1425-1430, 1455, 1474, 1477
Portioning 644, 1428-1429, 1455
Refrigerant 3007
Remote Indicator 1426
Shipping Room 644, 1425-1429
Straight 1429
Toploader 644, 1426
Vertical 1065, 1429, 2335
Warehouse 644, 1065, 1425-1429
Washdown 1428-1430, 1455
Wheelchair 1425
Wireless 1065, 3007

SCANNERS,
Automotive Diagnostic 921
Infrared Line 610, 615
Metal 565, 885, 2044
Radio 2034
Stud Finder 885

SCBA (SELF-CONTAINED BREATHING APPARATUS) 1773

SCHOOL
Bells 1375, 2052
Lunch Tables 1444

SCISSOR LIFTS . . . 942, 1032-1033, 1181-1182

SCISSORS SHARPENERS 2393

SCISSORS,
Electrician's 365, 815-816
First Aid/Medical 1831-1832
Industrial 815, 891, 1359
Kitchen 1453
Office 815, 1359
Student 815-816

SCOOPS,
Chemical/Corrosion-Resistant 1457
Food Service 862, 1451, 1454, 1456-1457
Ice 1451, 1456-1457
Laboratory 645
Measuring 1456, 1525
Plastic 645, 994, 1451, 1457, 1525
Shovel 862, 998, 1456-1457

SCOOTER BATTERY CHARGERS 535

SCOPE PROBE SETS 540

SCOPES,
Fiber-Optic 543, 616-617, 672, 684, 866
Monocular 2041

SCOREBOARDS 1478

SCOURING PADS 1548-1549

SCRAPER
Blades 889, 891, 1548, 1551
Mats 1890-1892

SCRAPERS,
Bench 1452, 1457
Boot/Shoe 1757, 1890
Carbon 814
Cell 663
Chisel 713-714, 862, 887-888
Deck 861-863
Floor 713, 861-862, 888, 891, 1457, 1551
Food Service . . . 1452-1454, 1457, 1459, 1548
Gasket 823, 888
Griddle 1452, 1457, 1459
Ice 948, 993
Paddle 1454, 1457, 1548
Paint 823, 862, 887-888, 891, 1551, 1620
Plastic 861, 887-888, 1454, 1457
Razor Blade 823, 888, 1551
Spatula 887-888, 1454, 1548
Spray Booth 862
Wall 862-863, 887-889, 891, 1620
Window 887-888, 1551

SCRATCH AWLS 802, 848, 2343

SCREEN
Cleaners 232
Enclosures 2410
Materials 1010, 2190

SCREEN DOOR
Hinges 2009
Pulls 2018

SCREEN DOORS,
Dock 1121

SCREENS,
Anchor 2161
Door 1121
Epoxy 2161
Filter 2896-2897
Insect 1121, 1823
Noise-Absorbing 1352, 1889
Paint Spreader 1620
Privacy 1010
Projection 1353
Pumice 1549
Separator 1352
Strainer 2896-2897
Tent 980
Urinal 1505, 2757
Wall 1121, 1353
Welding 2410

SCREW
Anchors 2097, 2147, 2163, 2166-2170
Assortments 2055-2056, 2097, 2112, 2126
Extractors 2260
Gages 2054
Guides 698-699
Guns 667-668, 686, 696
Jacks 2466
Machine Drill Bits 2245-2246
Pin Shackles 1067
Pitch Gages 2338
Removers 2260
Starters 802
Thread Tools 2137-2138, 2141, 2143

SCREWDRIVER
Adapters 703
Angle Attachments 703
Controls 2504
Nut Setters 699, 701
Sets 698, 758, 798, 800-803, 848, 854, 856-857, 861

SCREWDRIVER BIT
Extensions 703
Holders 698-700, 703, 768, 801-802

SCREWDRIVER BITS,
Crosspoint 800
Double-End 699, 801-802
ECX 801
Hex 698-700, 702-703, 767, 800-802
Impact 700, 775-776, 802
Insert 700, 702, 775-776, 802
Magnetic 698-699, 801, 857
Phillips 696, 698-700, 702-703, 767, 775-776, 800-803, 857, 2109
Power 696, 698-700, 702-703, 801-802, 2109
Pozidriv 699, 702, 767, 801-802
Ratcheting 801
Slotted 698-700, 702-703, 767, 769, 775, 800-803, 857
Socket-Head 698, 702
Spanner 801
Square 696, 698-700, 702, 800-802, 857
Square-Recess . . . 699-700, 702-703, 801-802
Star 699, 801-803
Tamper-Resistant 700, 702, 800-802
Torq-Set 702, 801
Torx 698-700, 702-703, 767, 801-803, 857
Tri-Wing 801

SCREWDRIVERS,
Air 2505
Antislip 798-800
Ball Hex 803, 805
Cabinet Tip 798-799, 848, 854, 857, 862
Conduit Fitting 848
Cordless 668, 672, 681-682, 684, 686, 692, 696
Cushion-Grip 798-799, 802, 857, 861
Demolition 799
Drywall 696
Electric 696, 786, 2504
Electrician's 365, 798-799, 801, 848, 854, 856-857, 861
Electronics 802-804, 846
ESD 786, 802-803
Hex 696, 786, 801-803, 857
HVAC 801
Impact Ready 698, 800
Insulated 854, 856-857, 861
Keystone Tip 798-800, 848, 854, 857
Magnetic 798-801, 857
Mini 798-799, 814, 3040
Multibit 800-803, 814, 857, 3040
Nonmagnetic/Nonsparking 861-863
Offset 800
Phillips 365, 758, 798-803, 814, 839, 848, 854, 856-857, 861, 863
Pocket 798, 800, 814, 3040
Pozidriv 801-802
Precision 802-803
Ratcheting 800-801
Reversing 696, 2504-2505
Robertson 798-801, 803, 857
Roofing 696
Screwholding Driver 798, 802
Security 702, 801, 2104
Sheet Metal 696
Slotted 365, 758, 798-803, 814, 839, 848, 854, 856-857, 861, 863
Spanner 801
Square 699, 798-802, 848, 854, 856-857
Star 799
Stubby 798-799, 801-802
Tamper-Resistant 702, 801
Technician's 799, 801-803, 854
Torque 672, 682, 686, 692, 696, 786, 856, 2504
Torx 798-803, 854, 856-857

SCREWS,
12-Point 2063
Barrel 2103
Binding-Post 2103
Bugle-Head 2109
Button-Head Machine 2104
Button-Head Sheet Metal 2105
Button-Head Socket Cap 1119, 2112, 2121-2122
Cap . . . 316, 1106, 1119, 2055-2070, 2112-2122
Captive-Washer 2100
Carriage 1106, 2072
Cheese-Head 2099, 2102
Chicago 2103
Composite 2109
Cross-Recessed 2099
Deck 696, 2109
Drywall 696, 2109
Electrical Enclosure 198
Flanged 1119, 2063
Flat-Countersunk 2106, 2109, 2111
Flat-Head 2097, 2101-2102, 2104-2109, 2111-2112, 2119-2121, 2166
Flat-Head Socket 1119, 2112, 2119-2121
Floor 696
Grounding 387
Hex-Flange 2063
Hex-Head Anchor 2166-2167
Hex-Head Cap 2055-2070
Hex-Head Machine 2097, 2100
Hex-Lag 1106, 2110
Hex-Washer Head 2097, 2105-2107, 2110
Jack 2329
Jig 2102
K-Lath Modified Truss 2106-2107
Knurled-Head 2123, 2125, 2318
Knurled-Point 2128
Lag 1106, 2110
Locking 2063
Low-Head 2121
Machine 2097-2102, 2104
Masonry 2166-2167
Metric 2055-2056, 2065-2068, 2097, 2099, 2101-2102, 2112, 2116-2118, 2121, 2123-2125, 2127-2128
Metric Hex-Cap 2055-2056, 2065-2068
Multimaterial 696, 2111
Oval-Head 2097, 2099, 2106, 2108
Pan-Head 2055, 2097-2100, 2102, 2104-2107, 2109, 2111
Phillips-Head 2107
Quarterturn 2102

Raised-Countersunk 2108
Round-Head. . . . . 2072, 2097-2098, 2102, ... 2104-2106, 2108
Security 2101, 2104-2105
Self-Drilling . . . . . 696, 705, 1106, 1900, ... 2097, 2105-2107
Self-Locking 2113, 2115
Self-Piercing 696, 1106, 1900, 2106-2107
Self-Sealing. 2069, 2100
Self-Tapping 317, 2097, 2105
Sems 2100
Serrated. 2063
Set 2126-2130
Sheet Metal 696, 2055, 2097, 2105-2107
Shoulder 2103, 2123-2125
Socket 2112-2130
Socket-Head Cap. 1106, 1119, 2112-2122
Socket Set 2126-2130
Spade-Head. 2102
Stove Bolt 2102
Tamper-Resistant. 2101, 2104-2105
Thread-Cutting. 2102
Thread-Forming. 2102, 2105-2106
Thumb 2102, 2318
Timber 2110
Torx-Drive 2101, 2104-2105
Trim-Head 2100
Truss-Head 2100, 2103-2104, 2106
Vented 2115
Wafer-Head 1900, 2107
Wallboard. 2109
Weld. 2148
Wing. 2102
Wood 1476, 2097, 2108-2110

SCRIBERS 862, 884, 2343

SCROLL SAWS. 729

SCRUB BRUSHES
. . . . . 1536, 1542-1548, 1579, 1581-1583

SCRUBBERS,
Boot/Shoe 1757, 1890
Floor. 1544, 1549, 1578, 1581-1582
Window 1550

SCRUBBING
Pads. 1548-1549, 1584, 1586
Sponges. 889, 891, 911, 1515, 1548-1549

SCRUBS,
Floor. 1536, 1544, 1546-1547

SCULLERY
Faucets 2739-2742
Sinks 2725, 2727, 2729-2730

SDS (SAFETY DATA SHEETS)
Binders 1942
Cabinets. 1942
Posters. 1941
Signs 1925, 1941-1942
Training Materials 1942

SDS DRIVERS 665, 710

SEAL
Drivers 912, 917
Pullers 916
Strips 1124, 1391, 1999, 2001, 3092

SEAL KITS,
Hydraulic Cylinder 2479
Pump . . . . . 2632-2633, 2645, ... 2647-2648, 2658, 2672
Valve 2544-2546

SEALANT
Dispensers. . . . . 670, 679, 685, 688, 2172, ... 2219, 2233-2234, 2236, 2238
Removers. 1519, 2216, 2236
Tape . . . . . 1385-1388, 1391, 1630, 2222, 2224, . . . 2820-2821, 2838, 2842, 2963, 3012, 3092

SEALANTS,
Acoustical 1884
Acrylic 2230-2233
Adhesive . . . . . 905, 1631-1633, 2172, 2222, ... 2224, 2226-2233, 2236, 2724, ... 2819-2820, 2834, 2836, 2842, 3012
Asphalt. 1631-1632, 2230-2231
Automotive. . . . . 897, 903, 905, 955, 2224, ... 2230-2231, 2233
Bath 2230-2232
Boot 1757
Brushable Ceramic 2221
Cartridge 2226-2233
Caulk . . . . . 905, 1633, 1900, 2226, ... 2228-2233, 2236, 3012
Concrete . . . . . 905, 1599, 1604, 1612, ... 1632-1634, 2221, 2230-2233, 2724
Construction . . . . . 1391, 2226, 2228-2233, ... 2236, 2819, 3012
Duct 2230-2233, 2236
Electrical 380, 905, 2443
Epoxy . . . . . 905, 1604, 1633-1634, 2217, ... 2220-2221, 3012
Expanding Foam 2236
Fastener. 905, 2222, 2224, 2819-2820
Firestop 1884, 2233, 2236
Flange . . . . . 905, 2222, 2226-2227, 2230, ... 2233, 2820, 2842
Floor. 1523, 1533, 1634
Foam 2236
Gasket . . . . . 903, 905, 2222, 2226-2227, ... 2230-2233, 2820, 2842, 2963
Glazing. 2230-2231
Grout 2230
Gutter. 2230-2231, 2963
High-Temperature . . . . . 905, 2224, 2226-2227, ... 2230, 2233, 2820
HVAC 1884, 2224, 2230-2231, 2820, 3012
Hybrid 2230-2231, 2233
Hydraulic 905, 2224, 2820
Instant 905, 2226-2227, 2230
Joint. . . . . 905, 1597, 1632, 1884, 2222, ... 2224, 2226-2227, 2230-2233, ... 2819-2821, 2842, 3012
Kitchen. 2230-2233
Latex 905, 1884, 2230-2233, 2236
Liquid. 2220, 2224
Marine 905, 1900, 2232-2233
Masonry. . . . . 905, 1599, 1604, 1633-1634, ... 2230-2233, 2724, 3012
Metal Repair . . . . 905, 2220-2221, 2223-2224, ... 2230, 2232-2233, 2819, 2821
Packing 2820
Paste . . . . . 905, 1632, 2223-2224, ... 2226-2227, 2820
Pavement. 2230
Pipe . . . . . 905, 1884, 2220, 2222-2224, . . . 2231-2233, 2819-2821, 2838, 2842, 3012
Plastic 905, 2230-2233
Pneumatic 2224
Polyurethane . . . 1632, 2172, 2226, 2229-2231, ... 2233, 2236, 3012
Power Line. 2230, 2233
Radiator. 903
Roof Repair 1630, 2230-2231, 2724, 2963
Rubber. 953, 955, 2233, 2819, 3012
Silicone . . . . . 905, 1884, 2226-2227, ... 2230-2233, 2819-2820
Spray 1884, 3012
Stone 1533, 2230
Thread . . . . . 905, 2222, 2224, ... 2819-2820, 2842, 3012
Threadlocker 905, 2222, 2224
Tire Repair 953, 955
USDA BioPreferred. 2230
Valve 2231-2232
Water-Repellent. . . . . 905, 1598-1599, ... 1632, 2226-2227, 2230-2233, 3012
Window 2227, 2230-2233, 2236

SEALERS,
Bag 1396, 1406
Heat 739, 1406, 1418, 3012
Shrink 739, 1406, 1418
Strapping. 1419-1420, 1422-1424

SEALING
Compounds . . . . . 1597, 1632, 2224, ... 2226, 2231, 3012
Gum 3012
Presses 1936
Rings 322
Tools, Strapping 1419-1420, 1422-1423
Washers. 322, 2091

SEALING MACHINE MAINTENANCE KITS
. 1406

SEALING MACHINES,
Plastic Bag. 1396, 1406, 1418
Plastic Strapping 1424

SEALS,
Banding 1419, 1422-1424
Chromatography 660
Compression Packing 2699
Conduit Hole 298
Container 963
Dock Door 1124, 1128, 2000
Door Frame 1124, 1999-2001
Drain 1858, 1862, 2723, 2759
Drum 963
Fire 1999, 2206
Float Cord 2629
Foam Rubber 2206
Frame 1999-2001
Gladhand 962
Heating Cable End 3067
Hydraulic 2479, 2495
Lead Security. 1936
Metric 2176
O-Ring 2174-2176, 2708
Padlock 963
Pump . . . . 2632-2633, 2642, 2645, 2647-2648, ... 2658, 2672, 2699-2701
Pump Shaft . . . . . 2632-2633, 2642, 2645, ... 2647-2648, 2652, 2658, 2700-2701
Rotary 2701
Security 963, 1936
Strapping. 963, 1419, 1422-1424
Switch 260, 262
Toilet 2757
Truck 963
Valve 963, 2699, 3012
Well 2656

SEAM ROLLERS. 891, 1622, 2963

SEAMERS. 816

SEAT
Belt Cutters/Slicers 812
Belt Pads 950
Covers 948, 1494

SEATS,
Creeper 945
Forklift 1175
Outdoor 1309, 1482-1483
Patient Transfer 1821
Shower 2746
Toilet 2758

SECONDARY
Labels 1522
Spill Containment . . . . . 931, 1251, 1525, ... 1857, 1860-1867, 1869, 1875

SECURITY
Badges. 1970
Bollards 1132, 1134
Boxes. 1350, 1968
Cabinets. . . . . 1264, 1266-1275, 1277-1278, ... 1325-1326, 1328, 1968
Cables 349-350, 961, 1353, 1961
Cameras 2045-2048
Carts 1157, 1161-1162, 1172, 1328, 1824
Detectors 2044
Doors. 1230, 1997-1998
Gates 1134, 1230, 1969
Hasps. 296, 1959, 1962, 2016
Mirrors. 1495, 1913-1914, 2760-2761
Safes 1968
Waste Receptacles 1556
Wristbands. 1970

SEEDERS/SPREADERS. 951, 994-996

SEISMIC BRACING 2168

SELECTOR SWITCH
Contact Blocks. 246, 251, 256
Enclosures 240, 248-249, 258, 275
Knobs. 256

SELECTOR SWITCHES,
22mm 240-242, 244, 246-247
30mm 240, 251-257
Hand-Off-Auto 162-163, 174, 250, 257
Motor Starter 162-163
Oiltight 254-255

SELF-DRILLING SCREWS
. . . . . 696, 705, 1106, 1900, 2097, 2105-2107

SELF-LOCKING
Rings 2157
Thread Inserts 2143

SELF-STICK
Easel Paper Pads. 1372
Flags 1357
Notepads 1357
Pipe Markers 1932

SELF-TAPPING SCREWS . . . 317, 2097, 2105

SENSOR
Cables 278, 283, 2480
Cleaners. 3010
Mounts. 283-284, 3027

SENSORS,
Air Cylinder Position 2480, 2553
Ammonia Ion-Specific 1776, 1779
Basement Water 2629
Building Automation Control (BAC) 3027
Carbon Dioxide 1777, 3027
Carbon Monoxide. 1776-1780, 1881-1882
Chlorine Dioxide. 1779
Current. 220-221, 3092
Data Logger 620
Daylight 414-416, 469-470
Dissolved Oxygen 630
Entrance Alert 2053
Flame. 3010, 3034, 3036
Flowmeter 2680, 2683
Gas Detector 1776-1780
High Water. 2629
Humidity 595, 3026-3027
Infrared 454, 462, 467-470, 603, 1978
Leak Detector 3008-3009
LEL (Lower Explosive Limit). . . 1777, 1779-1780
Line Monitor. 221
Liquid Level 581, 2678, 2680-2681, 3007
Magnetic 567
Mercury Plug-In. 3034
Methane. 1776-1777
Motion 462, 467-470, 1978
Nitrate Ion-Specific 1777
Occupancy. 467-470, 3079
ORP (Oxidation-Reduction Potential) 630
Over/Under Current 220-221
Oxygen. 1776-1780
pH 630
Photoelectric . . . . . 281-283, 414-416, ... 449, 469-470, 567, 1125, 1969
PID (Photo-Ionization Detection) 1777
Pilot Flame. 3034
PIR (Passive Infrared) 462, 467-470
Pressure . . . . . 287-290, 570-571, 2553, ... 2600, 3016, 3018, 3042, 3046
Pressure Static Pickup. 571
Proximity 283-286, 462, 567
Rain 2764
Remote Bulb 3026, 3030, 3040
Remote Optical 567, 1125
Remote Photoelectric 469, 567
Remote Temperature . . . 586, 3021, 3026, 3037
RTD (Resistive Temperature Detector). 230
Stud 885
Sulfur Dioxide 1777, 1779
Temperature . . . . 230-231, 591, 593, 595-597, ... 600, 603-604, 630, 3018, 3021, ... 3026-3027, 3037, 3040, 3079

Thermocouple 230-231
Thermostat 231, 3020-3021, 3026
Ultrasonic. 468-469, 621, 2680-2681
Universal Current. 220-221
Vacancy 467-468
Vibration 174
Water 2629, 2684, 2686-2687, 3039

SEPARATOR
Elements 2571, 2587, 2589
Oil Absorption Bags 2571
Screens 1352

SEPARATORS,
Air 2660-2661, 2908, 3037
Air Compressor Air/Oil 2567
Ball Joint 916
Bearing 912, 915
Condensate 2571, 2576, 2590
Fuel/Water 947
Hose. 2618
Magnetic 1066, 1116
Oil/Water 2462, 2571
Water 2571, 2576, 2585, 2590

SEPTIC ENZYME DISPOSER REFILLS . . . 2732

SEQUENCERS,
Time Delay. 3035

SERVER
Cabinets. 353
Power Strips 353

SERVERS,
Coffee 1439

SERVICE
Carts . . . . . 743-744, 1147-1158, 1161-1162, ...1169-1170, 1172, 1445-1446
Desks. 1326-1327
Entrance Cable Fittings 305-308, 320
Jacks. 940-943, 960, 1193
Manifold Sets. 946, 2994, 3005
Poles 304
Sinks 2725, 2729

SERVICE KITS,
Refrigerant Valve 3010
Vehicle. 912, 916-917, 919, 2671

SERVICES. 1944

SERVING
Pans. 1449
Trays 1456

SET SCREW
Connectors. 315, 387
Couplings. 125, 313, 315
Lock Bearings 134-137

SET SCREWS. 2126-2130

SEWAGE
Basins 2630
Check Valves 2627
Ejector Pumps 2619, 2623-2626
Removal Systems 2624-2626

SEWAGE PUMP
Controls. 2655
High Water Alarms. 2629
Replacement Parts 2626
Switches 2628-2629

SEWAGE PUMPS. . . . . .2621, 2623-2626, ...2632-2633, 2637, 2646-2647, 2665

SEWER PIPE CLEANER
Cables 673, 864-865
Hoses. 1593

SHACKLES 1067

SHADES 1484

SHAFT
Adapters 43, 143
Bushings 43, 115, 143
Collars 122-124
Couplings. 122, 125-130
Protector Sets 913, 2698
Seals . . . . 2632-2633, 2642, 2645, 2647-2648, ... 2652, 2658, 2700-2701

SHAFT ALIGNMENT
Clamps. 2333
Laser Precision Tools. 96

SHAFTS,
Blower 2981
Keyed. 131
Tightener 120
Vibrator Flexible. 149

SHAKERS,
Laboratory 647-648
Sieve 649

SHAMMIES. 908

SHAMPOOS,
Carpet 1517
Hair 1496, 1498

SHANK
Adapters 2315
Brushes 2395-2398, 2400, 2618

SHANKS,
Coring Drill Bit 713-714
Demolition Hammer. 713-715
SDS Max 713
Socket 768, 775-777
Tamper Plate 714

SHARPENERS,
Chain Saw 820
Drill Bit. 2254
Garden Tool 1006
Knife . . . . . .813, 1006, 1452-1453, 2359, ... 2388, 2391, 2393
Pencil. 884, 1364
Scissors. 2393

SHARPENING
Files. 1453, 2393
Stones 813, 2393

SHARPS DISPOSAL CONTAINERS
. . . . . .809, 1836

SHEARS,
Air 2511
Banding 817, 1419-1420
Brake and Roll 816, 2355
Cable . . . . . .318, 671, 678, 815, 817, 845, ... 853-855, 924
Carpet 815, 891
Cement Board 670
Cordless. 670, 678, 684, 688
Electric. 726, 815-816
EMT 1832
Ergonomic 814-815
Fabric. 815
First Aid/Medical 1831-1832
Industrial 815
Kevlar. 815
Kitchen. 1453
Lawn and Garden. 1005-1006
Lightweight 815-816, 1359
Metal-Cutting. . . . . .108, 670, 678, 688, ... 726, 815-816, 861, 2356
Multipurpose 814-815
Napping 815, 891
Pipe-Cutting. 684
Pneumatic 2356, 2511
Poultry 815, 1453
Power 670, 678, 688, 726, 816
Serrated. 814-815
Sheet Metal . . . . . .670, 678, 688, 726, ... 815-816, 2355-2356
Shop 815
Strapping 815, 817, 1419-1420
Wire 814-815, 855

SHEATHS,
Knife 755, 814, 1452-1453

SHEAVE
Bushings 115
Groove Gauges. 105

SHEAVES,
Cable Puller 847
Idler 120-121
Pulley. 109, 1090
V-Belt. 109-113, 121
Variable-Pitch 109-110
Wire Rope 1090

SHEDS,
Outdoor 980, 1309-1310

SHEET
Fanners 1066
Pans. 1449, 1456
Protectors 1361, 1380, 1942
Racks. 1168, 1240

SHEET METAL
Clamps. 837-838
Deburring Tools 2298-2300
Forming Machines. 816, 2355
Gages. 2338
Screwdrivers 696
Screws. 696, 2055, 2097, 2105-2107
Shears . . . . . .670, 678, 688, 726, ... 815-816, 2355-2356
Storage Racks 1240
Tools . . .303, 670, 678, 688, 726, 816, 863, 2356

SHEETING,
Fire Barrier. 1883
Floor. 1100, 1412
Pallet Top 1416
Poly 1100

SHEETS,
Acrylic 440, 2211
Aluminum 2183, 2192
Bed/Crib. 1468
Brass 2179-2180
Carbon Steel 2179-2180, 2192
Cold-Rolled Steel. 2186
Dry-Erase. 830, 1367
Dryer 1516
Expanded Metal. 2192
Felt. 2215
Foam 2198-2200
Gasket 2840
Hypalon 2204
Noise/Vibration-Absorbing. 2199, 2834
Perforated 2192
Plastic 440, 2180, 2192, 2200, 2209-2214
Rescue Evacuation 1821
Rubber. 2199-2205
Sanding 911, 2366, 2368
Stainless Steel. 2179-2180, 2190-2192
Tool Steel. 2187
Viton. 2204

SHELF
Bins . . . . . 1279-1280, 1282-1288, ... 1290-1291, 1294
Brackets. 1250, 1383, 1476
Dividers 1242, 1246-1247
Guards 1247
Hangers/Rail Rods 1246
Hooks. 1246
Label Holders. 1248
Ledges. 1246
Levels 1231-1236, 1241, 1243
Liners. 1246
Split Sleeves 1246
Standards 1250, 1476
Supports 1238, 1247

SHELL MILL HOLDERS 2311

SHELLACS 1598

SHELTER
Anchors 980, 1010
Environmental Control Units 1824
Walls 980

SHELTERS,
Dock Door 1128
Smoker's 1310
Temporary 980, 1823

SHELVES,
Bathroom. 2760-2761
Bin. 1277
Boltless 1233-1236
Bulk Storage 1229, 1231-1235, 1243-1244
Cabinet 1267, 1269-1270, 1277, 1869
Drum Stacker. 1864
Drum Storage Rack 1864
Food Service 1246, 1249, 1459
Literature Rack 1349
Mailroom Table 1349
Open Shelf File System 1243-1244
Pallet Rack. 1227, 1229
Particleboard 1231-1235, 1250
Pegboard 1329, 1331
Steel . . . . . 1156, 1231-1234, 1241-1244, ... 1246-1247, 1249-1250, 1269-1270, ...1329, 1331, 2761
Storage Rack . . . 1229, 1231-1235, 1242-1244, ... 1246-1249, 1307, 1864
Utility 2729, 2760-2761
Utility Cart 1156
Wall 1250, 2760-2761
Wire . . . . . .1156, 1227, 1229, 1231-1234, ... 1246-1250, 1522
Workbench. 1316-1317, 1319-1321

SHELVING
Base Strips 1242
Casters. 1210, 1247, 1282
Cleats. 1250
Clips. 1247
Components. . . . . .1227, 1229, 1233-1236, ... 1241-1244, 1246-1252, 1281-1282, ...1308, 1451, 1525
Covers 1156
Doors 1242
Drawers 1306
Enclosures. 1229, 1451
Gussets 1250
Hardware 1246-1247
Posts 1246-1248, 1250
Rails. 1235, 1476
Replacement Parts 1231
Supports 1231, 1247, 1451

SHELVING,
Adjustable . . . . . .1155-1156, 1231-1237, ... 1239, 1241-1248, 1251, 1326, 1451
Antimicrobial. . . . 1149, 1239, 1247, 1252, 1451
Bin Storage . . . . . .745, 1280, 1282-1285, ...1287-1291, 1297, 1306-1307
Boltless 1233-1237, 1239, 1244
Bulk Storage . . . . . .1143, 1226, 1231-1232, ... 1238-1240, 1245, 1251
Cantilever. 1238
Clip-Type 1237, 1243-1245, 1283
Closed 1239, 1241-1245, 1252, 1291, 1326
Commercial . . . . . .1149, 1227, 1236-1237, ... 1239, 1241-1244, 1247-1248, ... 1251-1252, 1326, 1451
Desktop 1337, 1358
Dunnage 1252
File System 1346
Gravity-Flow 1245
Heavy-Duty . . . . . 1231-1233, 1236-1237, ... 1239-1240, 1245, 1251
Industrial . . . . . .1226-1228, 1231-1233, ... 1235-1237, 1241-1242, ... 1244-1247, 1250-1252
Mobile . . . . . .1149, 1155-1156, 1172, ...1285, 1348, 1451
Modular 1244, 1346, 1451
Open . . . . 1149, 1155-1156, 1226, 1231-1237, ... 1239, 1241-1244, 1246-1248, ... 1250-1252, 1451

Pallet Rack 1226
Parts Bin . . . 745, 1280-1285, 1287-1291, 1306
Parts Storage 745, 1280, 1282-1285, 1287-1291, 1305-1307
Pick-Rack 745, 1280, 1282-1285, 1287-1288, 1290-1291, 1306
Plastic 1149, 1251-1252, 1451
Rack-Style 354, 1143, 1226-1227, 1231-1234, 1237-1240, 1244-1245, 1247, 1251-1252
Record Storage 1239
Slotted 1250
Steel 1155-1156, 1227, 1231-1232, 1234-1235, 1237-1248, 1250-1252, 1326, 1346, 1348
Wire 1155-1156, 1172, 1246-1248, 1250, 1252, 1280, 1282-1285, 1287-1288, 1451, 1522

SHIELDS,
Air Gun 2515
Chip 2359, 2363, 2515
Expansion 2163, 2165
Eye-Protective 1639, 1707, 1709, 1715, 1766, 1769, 1837, 2359, 2405
Gouging 2423
Grinder 2359, 2363
Laboratory Evaporator 635
Lathe 2363
Lighting 452, 520
Paint 1620, 1628
Pipe Insulation 2832

SHIFT KNOBS 2323-2324

SHIMS,
Air Knife 2582
Aluminum 2179
Arbor 2180
Blue Tempered 2179-2180
Brass 2179-2180
Color-Coded 2180
Copper 2179
Horseshoe 2055, 2181
Nonconductive 2180
Nonmetallic 2180
Pallet Rack 1227
Plastic 2180
Precut 2180-2181
Round 2180
Slotted 2055, 2181
Stainless Steel 2179-2181, 2690
Steel 2055, 2179-2180
Washer 2180
Wedge 2180

SHIN GUARDS 1746, 1813

SHINGLE FLASHING 2963

SHIPPING
Bags 1298, 1407-1409, 1413-1414
Box Sealing Tape 1384, 1395, 1397-1398
Cases 1304
Cloth Bags 1410
Containers 994, 1136-1138, 1292-1293, 1295-1296, 1298-1301, 1304, 1402, 1457
Drums 1138-1139, 1573, 1861, 2695
Freeze Packs 1402
Hand Wrap 1414-1416
Hand Wrap Dispensers 1417
Ink Rollers 1403
Kraft Wrapping Paper 1412, 1414
Labeling Tags 1404, 1938
Labels 1362, 1395, 1404-1406, 1937, 1940
Scales 644, 1379, 1425-1429
Stencil Supplies 1403
Stretch Wrap 1414-1416
Stretch Wrap Machines 1417
Tags 1404, 1938
Tape 1388, 1395, 1397, 1404
Tape Dispensers 1394-1396, 1398, 1404

SHIPPING CARTON STRAPPING SUPPLIES 1419, 1421-1424, 2535

SHIPPING CARTONS 1400-1402

SHIRTS,
Disposable 1735, 1737
Flame-Resistant 1712
Food Service 1722
Henley 1712
High-Visibility 1712, 1726, 1812
Job 1812
Polo 1722, 1726, 1812
Safety 1712, 1735
T- 1712, 1726, 1812
Tactical 1812
Tyvek 1737

SHOCK
Absorbers, Fall Protection . . . 1802-1804, 1806
Arrestors 2913
Mounts 1221-1223, 2983, 2986

SHOE
Covers 1623, 1732, 1737-1739, 1746
Dryers 1757
Inserts 1756
Scrapers 1757, 1890
Spikes 1747
Waterproofing Spray 1757

SHOES,
Athletic 1750-1751, 1754-1755
Chemical-Resistant 1746, 1750, 1754
Composite-Toe 1750, 1752
Dielectric 1709, 1744
Hiking 1754
Leather 1750-1752, 1754-1755
Oxford 1752
Pilaster 2762
Pipe Bending 850
Slip-On 1747, 1752, 1754-1755
Slip-Resistant 1745, 1747, 1750-1752, 1754-1755
Steel-Toe 1746, 1750-1752, 1754

SHOP
Carts 743, 1147-1154, 1157, 1161, 1169-1170, 1446
Desks 1157, 1169, 1326-1327
Lights 439, 444-448, 451-452
Lockers 742, 1262
Presses 2355, 2357, 2470
Rags 911, 1492
Rolls 911, 2367-2368
Sanders 2360-2362
Stools 945, 1333-1335, 1350
Ticket Holders 1383
Towels 1490-1492
Trucks 743, 1150-1154, 1170
Vacuums 678, 719, 1563-1567, 1573

SHOPPING
Bags 1411
Carts 1148, 1171

SHORTING CAPS,
HID (High-Intensity Discharge) Fixture 458
Photoelectric Sensor 414-415

SHORTS 1813

SHOULDER
Hooks 2020
Screws 2103, 2123-2125
Straps 757

SHOVEL
Handles 997
Holders 998

SHOVELS
. . . . . 862, 948, 993, 997-998, 1456-1457

SHOWER
Arms 2744
Benches 2746
Brackets 2744
Cleaners 1503-1504, 1520-1522, 1824
Control Handles 2745
Curtains 2746
Drains 2723
Elevation Grids 1824
Floors 2746
Heads 1844, 2744-2746, 2749, 2761
Hoses 1824, 1841-1842, 1844, 2744, 2748
Pumps 1824, 1865
Replacement Parts 2747, 2761
Rods 2746
Seats 2746
Soaps 1496-1498
Spray Wands 1824
Stalls 2746
Strips 1901
Valves 2745
Wall Mounts 2744
Wall Supplies 2748
Water Collection Pools 1824
Water Heaters 1824

SHOWERS,
ADA-Compliant 2745-2746
Drench 1824, 1842-1844
Handheld 2744-2746
Massage 2744-2745
Portable 1824
Wall-Mounted 2744-2746

SHREDDER
Bags 1377
Oils 1377

SHREDDERS 1376-1377

SHRINK
Bags 1418
Fit Chucks 2310-2311
Sealer Kits 739, 1406, 1418
Tubing 372, 376-378
Wrap 1418

SHROUDS,
Dust Collector 722
Furniture and Pallet 1100, 1410, 1416
Pipe 2722

SHUNT TRIPS 198-199

SHUNTS,
Panel Meter 560

SHUTTER
Covers 2967
Motors 2936, 2938-2939
Mounted Fans 2929, 2967-2968
Pull Chains 2936

SHUTTERS,
Ceiling 2967
Exhaust 2936-2937, 2967
Fan 2936-2937, 2967
Gable 2967
Intake 2936-2937
Supply 2937
Truss 2967

SHUTTLE VALVES 2475, 2547

SHUTTLES 989

SIDESHIELDS,
Eyewear 1665

SIDEWALK ICE MELT KITS 995

SIDING
Cutters 670
Electric Screwdrivers 696
Nailers 2499

SIEVE ACCESSORIES 649

SIFTERS 649, 997

SIGHT
Checks 2464, 2913
Plugs 2464

SIGHT GLASSES,
Flow 2464, 2913
In-Line 2464, 3013
Moisture Indicator 3013
Refrigerant 3013

SIGN
Ballasts 476
Holders 1230, 1372, 1527, 1908, 1915-1916, 1926, 2043
Kits 1230
Lamps 498-499
Machines 1929
Stands 1371-1372, 1915-1916
Tape 1386, 1392, 1926

SIGN POST
Anchors 1916
Bases 1916
Brackets 1916, 1923, 2535
Drivers/Pullers 1010
Fasteners 1912, 1916

SIGN POSTS 1916

SIGNAL
Bases 278-280, 1887
Bells 1375, 2052
Clamps 565, 866
Device Brackets 278-280, 1885
Generators 565
Lights 278-280, 449, 972-973, 976-977, 1885-1888
Mounting Tubes 279
Sounders 279-280, 1885-1887
Tone Modules 1885

SIGNS,
Admittance/No Admittance 1527, 1919, 1921-1922, 1924, 1926
AED (Automated External Defibrillator) 1920, 1925
Bilingual 1527, 1918-1922, 1925
Blank Panel 1527, 1921-1922
Braille 1926
Caution 1131, 1527, 1903, 1911, 1918, 1921-1922, 1924, 1937
Chemical Spill 1527
Closed 1527, 1911
Confined Space 1527, 1919, 1922
Danger 369, 1527, 1919, 1921-1922, 1924
Digital Display 2022, 2050
Directional 1527, 1903, 1909, 1911, 1917, 1923, 1925, 1941
Door 1918, 1920, 1922, 1924
Elevator 1921, 1926
Emergency . . . 425-428, 1920-1922, 1924-1925
Exit/No Exit 422, 425-428, 1903, 1917, 1920-1924, 1926
Eyewash 1903, 1920, 1925, 1941
Fire Door/Fire Lane 1903, 1917, 1920, 1922, 1924
Fire Equipment 1903, 1920, 1922, 1925
First Aid 1920, 1925
Floor 1527, 1903, 1921
French 1527
German 1527
Glow-in-the-Dark . . . 428, 1919-1923, 1925, 1941
Handicap 1911, 1917, 1926
Hazard Communication 1527, 1903, 1918-1919, 1921, 1924, 1940
Height Clearance 1129, 1918
High-Visibility . . . 1915, 1917, 1923-1925, 1941
Hygiene 1920, 1922, 1925
Laser 1921
Lockout 1918, 1920, 1924, 1951
Multilingual 1527
No Parking/Parking 1911, 1917, 1920
No Smoking/Smoking 1924-1925
No Trespassing/Do Not Enter 1527, 1909, 1917-1922, 1924
Notice 1126, 1527, 1920, 1922, 1924

Office/Facility. . . . . 1527, 1903, 1917-1918, ... 1920-1922, 1924-1926, 1941
OSHA Regulation. . . . . 1918-1922, ... 1924-1926, 1937, 1941
PPE Required. . . 1903, 1918-1922, 1924, 1937
Radiation 1921
Recycling Container. 1922
Reflective. 1131, 1915, 1917, 1922, 1924
Restroom . . . . . 1527, 1920, 1922, ... 1925-1926, 1941
Right-to-Understand 1921
Road Construction 1915, 1917
Safety . . . . . 425-428, 1126, 1129, 1527, 1903, . . . 1915, 1917-1922, 1924-1926, 1940-1941
Safety Reminder . . . . . 1126, 1527, 1903, ... 1918-1919, 1921-1922, 1924
SDS 1925, 1941-1942
Security 1917, 1921-1922, 1924
Severe Weather 1925, 1941
Shower 1920, 1925
Spanish 1527, 1918-1922, 1925
Speed Bump 1131
Spill Control 1527, 1925
Stairwell Identification. 1926
Stop/Slow 1903, 1915, 1917-1918, 1941
Telephone 1921
Temporary 1909, 1915
Traffic. 1131, 1527, 1911, 1915, 1917-1918
Umbrella Bag 1350
Visitor. 1917, 1924
Warehouse. 1903, 1920, 1924
Warning 1126, 1922, 1924
Wet Floor 1527, 1903
Wet Paint 1527, 1911

SILENCERS,
Air Tool 2551
Compressor 2575-2576
Door 2005
Vacuum Cleaner. 1565
Wet/Dry Vacuum 1565

SILICA GEL REPLACEMENT CARTRIDGES
. 2589

SILICONE
Adhesives . . . . . 1020, 2220, 2226-2227, ... 2230-2233, 2820
Compounds 2439, 2441, 2452
Grease 899, 2450-2452
Lubricants . . . . . 901, 2438-2439, 2441-2442, ... 2444-2445, 2450, 2452, 2779
Sealants. . . . . 905, 1884, 2226-2227, ... 2230-2233, 2819-2820

SILICONE RUBBER,
Edging 2207
Sheet 2199-2200, 2205
Strip 2205

SILLCOCKS 2912

SILT FENCES 1012

SILVERWARE HOLDERS 1435

SIMULATORS,
Wireless Monitoring System 600

SINK
Drainboards 2729
Drains 2722-2725, 2727, 2747-2748
Overflows. 2725, 2747-2748
Piping Covers. 2722
Pump Systems. 2626
Replacement Parts 2726-2727, 2743, 2761
Splash Guards 2728-2729
Strainer Baskets 2723-2724, 2727
Tray Systems 2626

SINKS,
ADA-Compliant . . . . . 2725-2728, 2731, ... 2737-2738, 2743, 2760
Bar 2731
Bathroom 2725-2728, 2760
Classroom 2731
Drop-In. 2725, 2731
Food Service 2727-2728, 2730
Fountain. 2731
Hands-Free 2726-2729
Laboratory 2725
Mobile 2729
Mop 2729
Penal 2760
Scullery 2725, 2727, 2729-2730
Service. 2725, 2729
Stainless Steel. 2725, 2727-2731, 2760
Surgical 2727, 2729
Utility 2725, 2727, 2729-2730

SIPHON
Pumps . . . . . 679, 2630, 2632-2633, ... 2676-2677, 2695
Spray Guns 1626-1627, 2518
Tubing 574

SIPHONS,
Gauge 574

SIRENS 1885

SKATE WHEEL
Conveyors 1108
Flow Rails 1111

SKATES,
Equipment Moving. 1193

SKI MASKS 1642

SKID LIFTS 1065, 1173-1174, 1178-1181

SKIDDING TONGS 1007

SKIDS,
Plastic 1135, 1457, 1863, 1865, 1867

SKIMMER TUBES 2462

SKIMMERS,
Leaf 1481
Oil 2462
Pond. 2639

SLAP TACKERS 890

SLATWALL ACCESSORIES 1331-1332

SLATWALLS 1332

SLEDGE HAMMERS
. . . . . 825, 827-828, 862, 1820

SLEEPING BAGS 1823

SLEEVE
Anchors 2165
Bearings 143-145
Valves 2547

SLEEVES,
Abrasion-Resistant 1686
Acetal Compression Tubing 2854
Aluminized. 1715
Assembly 1686
Baseboard Heater 3090
Brass Tubing 962, 2854-2855
Cable . . . . . 368-371, 373, 376-378, 406-407, ... 1088-1089, 1788, 1928
Chemical-Protective 1672, 1733, 1739
Clip. 373
Cut-Resistant. 1686
Disposable. 1672
Document 830, 1383
Drill 2315
Drive 323
Electrical-Protective 1710
Firestop 1884
Flame-Resistant 1703, 1715-1717
Fluorescent Lamp Protective. 481
Heat-Resistant. 1703, 1715-1717
Heating Element 3081
HPPE (High-Performance Polyethylene) . . . 1686
Job Ticket 1383
Kevlar. 1686
Pipe 2425
Plastic Compression Tubing. 2854-2855
Puncture-Resistant 1686
Slash-Resistant 406, 1672
Stainless Steel Tubing 2854
Wall 2992-2993, 3073-3074, 3090
Welding 1703, 1715-1717
Wire Marking 368-371, 373, 1928
Wire Rope 1088-1089
Wire Wrap 369

SLICERS 1452-1453

SLIDE BOXES/TRAYS 643

SLIDE HAMMERS 915

SLIDES,
Drawer. 2017
Furniture 1342
Microscope 643

SLIDING DOOR CABINETS
. . . . . 1264, 1275, 1346

SLING
Psychrometers. 594
Round Slings 1076
Wear Pads 1079

SLINGS,
Arm 1830-1831
Cable 1079
Chain 943, 1074, 1144
Crane 943, 1074-1077, 1079, 1144
Drum 1144
Endless Loop 1075-1077
Eye. 1076-1077, 1079
Lifting . . . 943, 965, 1074-1079, 1084, 1106, 1144
Mechanic's 943, 1074
Nylon 1075-1078
Polyester 1076-1079, 1144
Positioning. 943, 1791
Webbing. 1075-1079, 1098, 1144
Winch. 965, 1074-1079, 1084, 1106
Wire Rope 1079

SLIP HOOKS,
Clevis. 1071

SLIP NUTS 2723

SLIP ROLLS 2355

SLIPPERS 1757

SLITTERS,
Cable 345, 364-366, 671, 846, 859

SLOTTED
Angle Kits. 1250
Bit Sockets. 703, 767
Pins 2154
Screw Starters. 802
Shims. 2055, 2181
Standards 1250, 1476

SMOCKS/TUNICS 1734, 1738

SMOKE
Candles 3096
Cartridges 3096
Eliminators. 233, 2408
Emitters. 3096
Exhausters. 2408, 2966, 3060
Matches. 3096

SMOKE DETECTOR
Enclosures. 3029
Relay Modules 1881
Replacement Parts 3029
Sampling Tubes 1780, 2051, 3029
Testers 1882, 3029

SMOKE DETECTORS
. . . . . 622, 1881-1882, 2036, 2051, 3029

SMOKING
/No Smoking Signs 1924-1925
Receptacles 1552
Shelters 1310

SNACK FOODS 1440-1441

SNAKES 671, 673, 863-864, 2751

SNAP-ACTION
Switch Thermostats. 3023, 3066
Switches 263, 268-270, 272-273

SNAP BUSHINGS 2086

SNAPPER PINS 2152

SNAPS 2019

SNIPS,
Aviation 816, 863
Bulldog. 816
Duckbill 816
Electrician's. 303, 365, 815-816
Ergonomic 815
Fiber-Optic. 815-816
Garden 1005
Metal-Cutting. 816, 863
Multipurpose 815-816
Offset/Bent. 815-816
Pointed-Tip 815-816
Straight Cut 816
Thread 815-816
Tinner's 816, 861

SNOW
Boots 1741, 1743, 1745
Brushes 948
Cleats/Spikes. 1747
Cone Machines 1458
Fences 1010
Roof Rakes. 993
Shovels 948, 993
Sweepers. 992
Throwers 991-992

SNOWBLOWER ACCESSORIES 991

SNOWBLOWERS 991-992

SNOWPLOW
Bolts. 991
Lights. 969
Quick Couplings. 2489
Replacement Parts 950

SNOWPLOWS 992

SNUBBERS,
Pressure 574

SOAK TANKS 939

SOAP
Dishes 2760-2761
Dispensers. . . . . 1496-1498, 1501, 1514, ... 2727-2728, 2736
Pads. 1549

SOAPS,
Antibacterial/Antimicrobial . . . 1496-1498, 1501
Biodegradable 1496-1498
Body. 1496-1498
Car Wash 908, 910
Foam 1496-1498, 1514, 2736
Food Industry. 1514
Hand 1496-1498, 1501, 1514, 2736
Hypoallergenic. 1498
Laundry 1516
Lotion. 1496, 1498, 1501
Pumice. 1501

SOAPSTONE MARKERS 2422, 2428

SOCCER EQUIPMENT 1478

SOCK ABSORBENTS 1846, 1850, 1853

SOCKET
Adapters . . . . . 361, 699-700, 703, 768-769, ... 771-772, 775-777, 779-781, 802, 949
Bars . . . . . 758, 768-769, 771-772, 775, ... 779, 861-862
Bit Holders 775-776
Bit Sets 759, 767, 854, 860
Bit Trays 745
Clips 771, 775-777, 779
Drive Plugs 772, 780
Drivers 696, 759, 768-769, 776-778, 2503
Extenders 465
Extension Bars . . . . . 758, 768-769, ... 771-772, 861-862
Extensions . . . . . 465, 703, 759-761, 763, ... 765, 768-769, 771-772, 774-777, ... 779-781, 854, 2147, 2315
Handles 768-769, 771-772
Hex-Head Bits 702
Hinge Handles 768-769, 771-772
Holders, Magnetic 745, 1332
O-Rings 779-780
Ratchet Adapters . . . . . 700, 703, 768-769, ... 771-772, 775-777, 779-780
Ratchet Spinners 769, 771
Ratchets . . . . . 758-766, 768-769, 771-772, ... 785, 860-862
Retaining Pins 776, 779-780
Retaining Rings 776-777, 779-781
Screwdriver Bits 702, 767-771, 801-802
Shanks 768, 775-777
Universal Joints . . . . . 768-769, 771-772, ... 775-777, 779-781
Wrenches . . . . . 365, 758-761, 763-766, ... 768-769, 771-772, 782-785, ... 795, 854, 860-862, 953, ... 2502-2503, 2505, 3010

SOCKET-HEAD CAP SCREWS
. . . . . 1106, 1119, 2112-2122

SOCKET SETS
. . . . . 698, 703, 758-767, 773-774, 776-777, ... 795, 802, 854, 860-861, 869, 919, 2751

SOCKETS,
1/4" Drive . . . . . 698, 703, 758-759, 761, ... 767-768, 773, 775, 795, 854
3/8" Drive . . . . . 698, 703, 758-760, 762-763, ... 767-770, 773, 776, 795, 854, ... 860-861, 919, 2751
1/2" Drive . . . . . 698, 758-760, 763-765, 767, . . . 769-774, 777-778, 795, 860-862, 869, 953
3/4" Drive 766, 772-774, 779, 861, 953
1" Drive 766, 772, 774, 780
1 1/2" Drive 781
2 1/2" Drive 781
4-Hole 860
12-Volt Electrical 949
Automotive Sensor 919
Budd Wheel 780
Crowfoot 795
Deep 698, 758-765, 768, 770-781, 869
Drag Link 769, 771
Drum Bung 1140
Extension 2315
Flexible 762, 775-778
Hex . . . . . 703, 758, 762, 765, 767-770, ... 773-774, 776-779
Hex Bit 759, 767-771, 773-774, 779, 860
Impact 698, 773-781, 1140
Insert Bit Adapter 703
Insulated 854, 861
Light 462-463, 465
Morse Taper Extension 2315
Nut Driver 2147
Phillips Bit 703, 767, 776
Pipe Plug 767
Power 775-776, 949
Railing Swivel 1308
Relay 216, 218, 277
Slotted Bit 703, 767
Spark Plug 758, 762-763, 765, 769, 771
Spline 768, 770-772, 781
Standard . . . . . 698, 758-766, 768-781, ... 795, 860-862
Thermometer 589-590, 2891
Torx Bit 758-759, 767, 773, 775-776, 802
Torx Female 767, 773
Universal 763, 765, 768-781
Wedge 1089
Wheel Bearing Locknut 953
Wrench . . . . . 759-772, 775-781, 854, ... 860-862, 869, 953

SOCKS,
Boot 1757
Spray 1623, 1775
Wind 1907

SODA BLASTER ACCESSORIES 2404

SODA BLASTERS 2404

SOFT-START MOTOR STARTERS 153

SOFTENERS,
Fabric 1475, 1516
Water 2702

SOFTWARE,
Automotive Diagnostic 921
Data Logger 563
Keyless Access 1971
Label Machine 373, 1927, 1929
Meter/Multimeter 536
Motor Control 155
Proximity Sensor 284
Relay 224
Training 1943
Weather Station/Temperature Monitoring . . . 583

SOIL
Compactors 1009
Erosion Control Fencing 1010, 1012
Moisture Meters 600
Pipe Cutters 869
Probes 1009
Spade Bits 713

SOLAR POWER BATTERY CHARGERS . . . 927

SOLAR POWERED THERMOMETERS
. 589-590

SOLDER
Masks 1389
Pots 239

SOLDER,
Acid Core 239
Automotive 239
HVAC 239
Plumbing 239, 2618
Silver 239
Solid Wire 239, 2618
Tin 239, 2618

SOLDERING
Chisel Tips 235-238
Flux 232, 239, 2432, 2618
Fume Extractors 233, 3060
Guns 238, 685, 874, 2436
Handles 238
Heating Elements 235, 238-239
Irons 233-238, 685, 846, 874
Maintenance Kits 235
Sponges 232
Stands 232, 238
Stations 236-237
Systems 235
Thermostats 239
Tip Sets 234, 2431
Tips 232, 234-238, 2431, 2436-2437
Torches 233-234, 2430-2431, 2436-2437
Voltage Controls 239

SOLENOID
Connectors 2475, 2477, 2542-2544, 2549
Replacements, Sprinkler 2764
Strainers 2587

SOLENOID VALVE
Cables 2542
Coils . . . . . 2475, 2544-2546, 2549, 2873, ... 2883, 3017, 3092
Manifold Accessories . . . . . 2542-2546, ... 2549-2550, 2683
Override Kits 2545
Replacement Parts 2873, 2883-2884, 2892
Spool Kits 2546
Subbases 2543-2544
Subplates 2477, 2545

SOLENOID VALVES,
2-Way 2545, 2872-2882, 3092
3-Way . . . . . 2544-2545, 2548-2550, 2872, ... 2876-2878, 2881-2882, 3042
4-Way 2542-2545, 2548-2551, 2878, 2881
AC/DC 2881
Air . . . 2542-2545, 2548-2551, 2871, 3041-3042
Cartridge 2475
Combustion 2874, 2879
Cryogenic 2880
Dust Collector 2876
Gas Shut-Off 2879
General Purpose 2872, 2874-2879, 2881-2882
High-Pressure Steam 2872
Hot Water 2872, 2876-2878, 2880
Liquid-Only 3092
Low-Pressure Air and Water 2873
Low-Pressure Steam 2872
Low-Voltage 2874-2875, 2877-2878
Miniature 2549
Oil Shut-Off 2874
Pilot 2542-2545, 2873, 2882, 3032
Piston 2878, 2880-2881
Refrigerant 3017
Slow-Closing 2876

SOLIDIFIERS,
Liquid 1613

SOLUTIONS,
Calibration 634
Conductivity 628
Electrode Storage 630
Etching 1604, 1613, 1634
Eyewash 1830-1831, 1834, 1837, 1839
pH Buffer 634
Respirator Test 1775

SOLVENT
Degreasers . . . . . 908, 939, 1508-1510, ... 1514, 1519, 1522, 1581, 2447-2448
Dispensers 654, 1522, 1525
Hoses 1629, 2529, 2604-2606, 2690
Sprayers 935, 1000-1002, 2461

SOLVENTS,
Adhesive Cleanup 1517, 2216, 2227, 2236
Cement 320, 2819
Finish 1520, 1523
Gasket Remover 2216, 2227
Ink 1403
Laboratory 232, 634
Parts Washer 642, 901, 939
Penetrating 901, 2442
Stain 1517
Stencil Cleaning 1403
Windshield Washer 902, 909

SORBENT
Booms 1846, 1848-1855
Drip Pans 1861
Drum Covers 1846, 1848, 1850
Mats/Rugs 1847, 1850
Pads 938, 965, 1527-1528, 1846-1856
Pillows 1846, 1848-1850, 1853-1856
Rolls 1527, 1846-1854
Socks/Dikes 1846-1850, 1852-1856, 1859
Spill Control Kits 1527, 1836, 1853-1855

SORBENTS,
Acid/Base 1849, 1855
Chemical 1845-1846, 1849-1856
Hazardous Material 1846, 1849-1855
Oil 938, 1845-1856
Petroleum 1845-1847, 1850-1856
Powder 1836, 1845
Spill Control . . . . . 965, 1527-1528, ... 1836, 1845-1856
Static-Resistant 1851
Universal 965, 1527, 1845-1856

SORTERS,
File 1358
Mail 1349

SOUND
Baffles 1889, 2763
Damping Tape 1387, 1389, 1392
Mixers 2040
Systems 2037-2040, 2052

SOUND LEVEL
Alarms 624
Meters 539, 624

SPA/HOT TUB
Chemicals 1480
Filters 2641
Motors 25
Pumps 2641
Towels 1473

SPACE HEATERS . . . . . 1783, 3068-3070, ... 3073-3074, 3077-3079, 3082, 3084, 3087

SPACE SAVERS,
Desk 1358

SPACERS,
Arbor 708, 2180
Pallet Rack 1227-1228
Pipe 319, 2586
Pull Station Guard 2053
Round 2149

SPACKLING COMPOUNDS 1597, 1630

SPADE
Bits 699, 705, 713-714
Drills 697
Terminals 288, 383-384

SPADE-HEAD SCREWS 2102

SPADES 997-998

SPANISH
Engineer's Reference Manuals 2054
SDS Centers 1942
Training Materials 1941, 1943

SPANNER
Screwdrivers 801
Wrenches . . . . . 790-793, 796, 861, 917, ... 2708, 2719, 2767

SPARK IGNITORS 3032-3033

SPARK PLUG
Feeler Gages 917
Inserts 2141
Sockets 758, 762-763, 765, 769, 771
Tools 839, 917

SPARK PLUGS 3083

SPATULAS
. . . . . 645, 862, 887-888, 1452, 1454, 1457

SPC
Calipers 2326
Connecting Cables 2328
Depth Gages 2329
Micrometers 2327, 2329

SPEAKER
Antennas 2037
Brackets. 2023, 2039
Cables 349-350
Drivers 2040
Enclosures 2039
Jacks 355
Microphones 2028-2031
Plugs 351
Transformers 2040

SPEAKERS,
2-Way Radio 2030
Bird Control 1020
CB Radio 2033
Entertainment System 2022
Fire Alarm 1885, 2052
Intercom 2038-2040, 2052
Jobsite Radio 670, 685
Public Address System 2037-2040, 2052
Wireless 685, 2022, 2037

SPECTACLE KITS,
Respirator 1760-1763

SPECTACLES,
Safety 1650-1661, 1663-1664

SPEED
Bumps 1131
Limit Signs 1917
Nuts 2085
Racks 1448
Testers 559, 566-567, 2342

SPEED CONTROLS,
AC 153-158
DC 27, 85, 158-159
Electronic 153-159
Fan 154, 157, 465, 2917, 2922, 2929, 2944, 2946, 2949, 2955, 3103
Gearmotor 85, 159
Motor 27, 153-159
Pneumatic 2542-2544, 2551
Ventilator 2944, 2946, 2949

SPEED REDUCER
Bases 87-89, 93
Bushing Kits 90
Flange Coupling Kits 91
Torque Arm Kits 90

SPEED REDUCERS,
C-Face 87-90, 93-94
Indirect Drive 91-92, 94
Parallel Shaft 93-94
Right Angle 87-92

SPHERICAL NUTS 2317

SPIDER BOXES 413

SPIGOTS 1140

SPIKE NAILS 2111

SPIKES,
Landscape 2111
Marlin 862
Shoe 1747

SPILL CONTROL
Absorbent Pads 938, 965, 1527-1528, 1846-1856
Accessories 1857-1858, 1864-1865
Basin Grate Hooks 1858
Basin Inserts 1858
Berms 1525, 1859-1860, 1862
Bladders 1865
Cabinets 1528
Caddies 1864
Carts 1864
Drain Covers 1858, 1862
Drum Management Systems 1861-1862, 1864, 1866
Drum Trays 1861
Floor Dams 1525
Pad Stations 1527
Pallet Ramps 1862-1863, 1866, 1872
Pallets 1861-1867
Pools 1862
Signs 1527, 1925
Sorbents . . . 965, 1527-1528, 1836, 1845-1856
Stations 1527, 1865
Sump Pumps 1863
Trays 931, 1251, 1857, 1864, 1869, 1875

SPILL CONTROL KITS,
Bodily Fluid 1836
Chemical 1853-1856
Hazardous Material 1854-1855
Neutralizer 1854
Oil-Only 1853-1856
Universal 965, 1527, 1850, 1853-1856

SPILL CONTROL,
IBC (Intermediate Bulk Container) 1862-1863, 1867

SPINDLE
Guards 2363
Lubricants 2456
Sanders 2362

SPINDLES,
Reel Stand 850
Toilet Tissue 1488-1489

SPIRAL
Bands 2381
Flute Taps 2267-2268, 2270-2272
Point Taps 2262, 2267, 2270, 2272-2274
Rings 2157
Rolls 2381
Saws 729
Wrap 407

SPLASH GUARDS
. . . . . 1493, 2728-2729, 2732, 2751

SPLICE CONNECTORS . . . 351, 356, 360, 376, 378, 381, 383, 386, 388-390, 392, 2656

SPLICE KITS,
Direct Bury 376
Motor Lead 376, 378
O-Ring 2173
Power Cable 376, 378
Resin 376, 378
Well 2656

SPLICING JIGS,
O-Ring 2173

SPLINE
Sockets 768, 770-772, 781
Wrenches 787-789, 794

SPLINE ADAPTERS,
Impact 781

SPLINTER REMOVERS 1830, 1835

SPLIT
Lock Washers 2087, 2094-2095
Rings 2157, 2747

SPLIT-PHASE GEARMOTORS 74-76

SPLIT-PHASE MOTORS,
2-Speed 8-9, 56, 61-63
Belt-Drive 35, 56, 62-63
Direct-Drive 34, 58, 61, 63
General Purpose 8-9, 59, 63
Pump-Duty 8-9, 26, 28, 56, 60, 2654

SPLIT SYSTEM
Air Conditioners 2994-2995
Heat Pumps 2994-2995

SPLITTERS,
Bearing 912-913
Cable 351, 364, 846
Current 544
Line 355, 544
Nut 2469

SPONGE
Floats 891
Mops 1531
Pads 911, 1515, 1549

SPONGE FOAM,
Sheet 2199

SPONGES,
Abrasive 2367, 2369
Cellulose 911, 1549
Contour 1549, 2369
Decontamination 1824
Drywall 889, 2369
Dual Angle 2369
Eraser 1515, 1548
Gauze 1830
Grout 891
Microfiber 1549
Paint 1622
Scrubbing . . . 889, 891, 911, 1515, 1548-1549
Soldering 232
Wall 1622
Wiper 1549

SPOOL
Cart Wire Caddies 849, 1167
Carts 849, 1167
Guns 2413
Racks 849, 1240, 1307

SPOOLS,
Pressure-Balancing 2748

SPOONS,
Basting 1454
Laboratory Sampling 645
Measuring 1454
Mixing 1454
Plastic Food Service 1435

SPORTS
Drink Coolers 1825-1827
Drinks 1825
Equipment 1478

SPOT
Brushes 1543
Cooler Accessories 2662, 2996-2997
Coolers 301-302, 354, 2583, 2921, 2991-2992, 2996-2998, 3000-3001
Removers 908, 910, 922, 1517, 1519-1521
Watering Emitters 2764
Welder Tips & Tongs 2416

SPOTLIGHT
Lamps 430, 492-496, 508, 514
Remote Controls 971

SPOTLIGHTS,
Cordless 520, 530, 670, 680, 971
Handheld 530, 680, 689
HID (High Intensity Discharge) . . . 495, 508, 510
Medical/Dental 513-514
Rechargeable 520-521, 530, 670, 680, 689
Vehicle 967-969, 971, 975

SPOUTS,
Bathtub 2745-2746, 2748
Beverage/Condiment Bottle 930
Gas Can/Oil Can 1874

SPRAY
Adhesives 905, 2216, 2223, 2225-2226, 2236
Antiseptics 1829
Bottle Baskets 1525
Bottles 1520, 1522, 1525, 2457
Buffs 1533
Chalk 1610
Cleaners 232, 897, 901, 909-910, 922, 1502-1503, 1508-1510, 1512-1514, 1517-1519, 2446
Coatings 232, 906-907, 1603, 1609, 3012
Deodorizers 1505-1507, 1510, 1521, 1524, 1757, 3011
Disinfectants 1503, 1509-1514, 1519, 1521, 2446, 3011
Foam 2236, 3012
Foam Nozzles 3011
Grips 1611
Hoses 1626, 1628-1629, 2606
Insulation 2236
Lubricants 899, 901-902, 922, 2438-2443, 2445, 2457-2459
Nozzles . . . 1014, 1592-1594, 1629, 2518, 2743
Paint Removers 1519
Paints 191, 906-907, 1598, 1606-1611, 1630, 2427
Primers 906-907, 1598, 1606-1608, 2223, 2427, 2963
Pumps 1002, 1666, 2652, 2669, 2692-2694
Sealants 1884, 3012
Socks 1623, 1775
Wands 1002, 1014, 1016, 1591-1592, 1611, 1824, 3011

SPRAY BOOTH
Coatings 1624
Fans 2940-2941
Filter Parts 3058
Filters 1624, 3058
Lighting Fixtures 1624
Liner Paper 1624, 3058
Scrapers 862

SPRAY BOOTHS 1624

SPRAY GUN
Cup Accessories 1625-1627
Cups 1625-1626
Extensions 1625
Filters 1625-1626, 2575, 2589, 2603
Regulators 1626
Replacement Parts 1625, 1628
Tip Guards 1628
Tips 1625, 1627-1629
Valves 1626

SPRAY GUNS,
Airless 1625, 1628
Compressed Air 1626, 2518
Conventional 1625-1626, 1628
Engine Cleaner 1626
Gravity-Feed 1626-1627
Insecticide 1002
Paint 1611, 1625-1629
Pressure-Feed 1625-1628
Siphon 1626-1627, 2518
Suction-Feed 932, 1626-1627
Water 1525, 1591, 2518, 3011

SPRAY VALVES,
Lubrication 2465
Prerinse 2740

SPRAY,
Antiseize 2443
Antiseptic 1829, 1831
Blood Clotting 1829, 1834
Bug 1022-1023, 1829
Burn Care 1829, 1831
Dust Mop 1536
Elastomeric 1884
Fire Extinguishing 1879, 1884
Freeze 232, 874
Joint 1884
OC (Oleoresin Capsicum) 2044
Self-Defense 2044
Swelling-Reducing 1829
Window Antifog 902
Window Cleaning 909, 1502, 1510, 2446
Zinc 1606

SPRAYER
Extension Wands 1002, 1591
Filters 1626, 2575, 2589
Hoses 1626, 1628-1629, 2606
Replacement Parts 1626-1629, 2743

SPRAYERS,
Acid 1002
Air Brush 1625
Backpack 994, 1000-1001
Chemical 994, 1000-1002, 1525, 1550
Coil Cleaner 3011
Compressed Air 935, 994, 1000-1002
Concrete Sealer 1001-1002
Degreaser 1001-1002
Deicer 994
Drum Pump 1001
Drywall 889
Engine Cleaner 1626
Firefighting 1001
Foaming 1001, 1525
Form Release Oil 1002
Funnel-Top 1002
Garden 994, 1000-1002
Gravity-Feed 1626-1627
HVLP 1627
Industrial 1001-1002
Insecticide 994, 1000-1002, 1022
Kitchen 2739-2740, 2748-2749
Paint 1002, 1625-1629
Pressure 994, 1000-1002, 1525
Pressure-Feed 1625-1626, 1628
Pump Cart 1002
Solvent 935, 1000-1002, 2461
Suction-Feed 1626
Texture 889, 1629-1630
Tow 1002
Trigger 1525, 1550, 2743
Washdown 1000-1001, 2739-2740, 2748-2749

SPREAD CYLINDERS,
Hydraulic 2469

SPREADER
Beams 1061
Controls 951
Covers 951
Deflectors 995
Screens 1620
Spray Systems 951

SPREADERS,
Bar 833, 836
Fertilizer 951, 995-996
Hydraulic 2469
Salt 951, 995-996

SPRING
Assortments 2158
Clamps 834, 2534
Collets 2312
Hinges 2009-2010
Latches 961, 1071
Nuts 2055, 2085
Pilot Repair Kits 3038
Pin Assortments 2150
Pins 2150, 2154, 2321
Plungers 2321
Retainers 2512, 2514
Snaps 2019
Steel 2179-2180, 2191
Thermocouples 230
Washers 2094
Wound Timers 420

SPRING RUBBER,
Sheet 2203

SPRINGS,
Bed Box 1470
Cable Support 274, 327
Compression 2158-2160
Extension 327, 1123, 2158
Garage Door 1123
Gas 2015
Hole Saw Ejector 708
Music Wire 2158-2159
Precision 2159
Stainless Steel 274, 2158-2159
Torsion 2158-2159

SPRINKLER
Diaphragm Replacements 2764
Gauges 577
Hose Swivels 2764
Keys 2764
Nozzles 2764
Pumps 2630, 2632-2633, 2646, 2693-2694
Risers 2764
Solenoid Replacements 2764
Spray Heads 2764
Timers 418, 2764
Tools 2751, 2764
Valves 2764
Wire 349-350

SPRINKLER EQUIPMENT,
Underground 2764

SPRINKLERS,
Lawn 1012

SPROCKET BUSHINGS 115

SPROCKETS,
Gearbelt 114
Idler 120
Roller Chain 118-120

SPUD WRENCHES 796

SPUDGERS 365

SQUARE
Hooks 2020
Nuts 2197
Sets 2334
Washers 316, 2096

SQUARES,
Adjustable 884
Carpenter's 884, 2334
Combination 884, 2334, 2425
Drywall 884, 889
Framing 884
Layout 884
Machinist's 2334
Magnetic 2424
Rafter 884
T- 884, 889, 2425
Try 884

SQUEEGEE
Blades 1547, 1550-1551, 1581
Handle Adapters 1551
Handles . . . 1534, 1541, 1546-1547, 1550-1551
Heads 1546-1547, 1550
Replacement Parts 1547

SQUEEGEES,
Bench 1546-1547, 1550
Ceiling 1546-1547, 1550
Floor 1546-1547, 1550
Vacuum Cleaner 1564, 1575
Window 909, 1532, 1550

STABILIZER
Jack Signs 1126
Jacks 960, 1126

STABILIZERS,
Cargo 961, 1102, 1104-1107, 1410
Cart 1220
Engine Oil 897
Forklift 1183
Ladder 1040-1041
pH 1480

STACKERS,
Drum 1864
Hydraulic 1179-1180
Pallet 1173-1175, 1178-1181

STACKING
Baskets 1299
Bins . . . 1279-1280, 1282, 1284-1289, 1292-1294
Chair Dollies 1190, 1341
Chairs 1341, 1444, 1482
Containers 1279-1280, 1282-1283, 1286-1289, 1292-1302, 1457
End Plates 2543-2544, 2548, 2550
Racks 1239-1240
Totes 1292-1298, 1300, 1457

STACKING KITS,
Valve 2543-2544, 2549

STAGE LIGHTING CABLES 347, 412

STAGES,
Scaffold 1028, 1043

STAIN REMOVERS,
Carpet 908, 910, 922, 1517, 1519-1521
Concrete 1519
Exterior Surface 1481, 1519
Laundry 1519
Mold and Mildew 1503-1504, 1519

STAINING
Cloths 1622
Fluids 2427

STAINLESS STEEL CLEANERS
. . . . . 909-910, 1510, 1518, 2446

STAINLESS STEEL,
17-4 PH 2191
302 . . . . . 2179-2180, 2188, 2190
303 2188
304 2188-2192
316 . . . . . 2179, 2188-2190, 2192
416 2188
430 2191
440C 2188, 2190
Angle 2189
Ball 2190
Blank 2189-2190
Plate 2191
Rod 2188
Roll 2179, 2185
Sheet 2179-2180, 2190-2192
Strip 2191
Textured 2190
Tube 2190

STAINS,
Concrete 1634

STAIR
Carpet Installation Tools 891
Chair Accessories 1821
Chairs 1821
Climbers 1184-1185
Climbing Hand Trucks 1188-1189
Gauges 884
Landings 1312
Lights 436, 463
Nosing 1900, 2196
Treads 1047, 1900-1901, 1903, 2193, 2196

STAIR RAILINGS 1041

STAIRS,
Fixed 1040-1041, 1049
Mezzanine 1041, 1312
Platform 1040, 1312
Safety 1041, 1049
Steel 1312

STAKE FLAGS 1907

STAKES,
Earth/Ground Tester 557
Marking 1912
Riser 2764
Tubing 2764

STAMP
Pad Ink 1363
Pads 1363, 1403
Sets 1934

STAMPS,
Alpha-Numeric 1363, 1934
Date 1363
Identification 1934-1935
Message 1363
Numbering 1363

STANCHIONS 1910, 2042-2043

STAND PIPE THREADERS 872-873

STANDOFFS,
Hex 2148
Round 2149

STANDS,
Automotive 941-943, 2466
Bench Grinder 2359
Beverage Dispenser 1439, 1825
Cardboard Storage 1399
Computer 1321, 1328, 1339, 1343
Concrete Mixer 893
Conveyor 1113, 2351
Document 1383
Engine 943
Equipment 1152, 2330, 2355-2356
Fan 2923
Flat-Panel Monitor 2023
Floor 2355-2356, 2359
Gas Cylinder 2437
Grinder Tool 2359
Ice Machine 3003-3004
Information 1326, 1942
Inspection 1326
IV 1821
Jack 941-942, 2425
Laptop 1343
Light 521
Machine 1324, 1343, 2355-2356, 2359
Manometer 571
Micrometer 2328
Monitor 1321
Napkin Dispenser 1434
Office Machine 1343
Pallet 1178
Pipe 874, 2425
Pipe Cutting Machine 870
Pipe Threading 873-874
Pipette 658
Printer 1337, 1343
Reel 850
Roller 1113, 2351, 2425
Sign 1371-1372, 1915-1916
Soldering 232, 238
Speaker 2038
Step 1031, 1035-1036, 1047-1048, 1350
Storage Bin 1280-1281, 1289-1290
Surface Plate 2342
Surface Roughness Gage 2341
Table Saw 733
Tank 1137, 2437
Tilting 1169, 1181
Tubing Bender 868
Vacuum Cleaner 1563
Vise 2359
Water Heater 2716
Welding 2424-2425, 2437
Winch 1085
Work 1031, 1048, 1169, 1181-1182, 1323-1324, 1326, 2425

STAPLE
Guns 669, 684, 890, 2500-2501
Removers 1360, 1399

STAPLERS,
Air-Powered 2500-2501
Battery-Operated 684
Cable and Wire 890
Cordless 669, 684
Electric 669, 684, 890, 1360
Flooring 890, 2500
Framing 669, 890, 2501
Hammer Tacker 890
Heavy-Duty 890, 1360, 2500-2501
Industrial 2500-2501

Manual 890, 1360
Office 1360
Outward Clinch 890
Pneumatic 2500-2501
Roofing 890, 2501
Upholstery 2500

STAPLES,
Cable 890
Carton 2501
Collated 2500-2501
Finish 2501
Flooring 2500
Hasp 1962
Narrow Crown 890
Office 890, 1360
Packaging 1399, 2501
Pneumatic 2500-2501
Tacker 890, 2501

STAR SCREWDRIVERS & BITS
. . . . . 699, 799, 801-803

START KITS,
Refrigeration 3031

START-UP KITS,
Air Compressor 2567-2568

STARTER
Alarm Panels 2629
Cables 923
Control Panels 2629
Fluids 897
Levers 165
Pilot Lights 163, 165
Tool Sets 816

STARTERS,
Compressor Motor 165, 167
Engine 897, 925-928
Fluorescent Lamp 465
IEC Manual 172
Motor 153, 160-162, 164-165, 167-168, 172, 174
NEMA 160-162, 164-165, 167-168
Pump 165, 167, 2629, 2655
Screw 802

STATIC DISCHARGE (SEE ESD)

STATION BLANKS,
Valve 2542-2544, 2549-2550

STATIONS,
2-Drum 1865
Absorbent Pad 1527
Bait 1018, 1023
Bottle Filling 2719
Circuit Breaker Lockout 1952
Computer 1328
Desoldering 236
Diaper Changing 1495
Emergency Eyewash 1839-1844, 2741
Gas Detector Docking 1776-1778, 1781
Group Lockout 1950-1953
LAN 1343
Lens Cleaning 1666
Lockout 1939, 1950-1953
Pendant 249, 2414
Pet Waste 1554
Radio Base 2034
Reception 1337
Rework 236
Right-to-Understand 1942
Safety Tag 1939, 1950-1952
SDS Jobsite 1942
Server 1343
Smoking 1552
Soldering 236-237
Spill Control 1527, 1865
Wash 1824, 1839, 1841-1844, 2726-2727, 2729
Washdown Hose 2743, 2909
Weather 583

STEAM
Boilers 3089
Sterilizers 641
Unit Heaters 3088-3089
Vents 3037

STEAM CLEANER HOSES 1594

STEAM CLEANERS,
Carpet and Upholstery 1590
Pressure Washer 1590

STEAM HEATER
Cabinets 3090
Diffusers 3089
Enclosures & Covers 3090
Wall Sleeves 3090

STEAM HEATERS 3088-3090

STEAM HOSE PARTS 1594, 2531, 2607

STEAM HOSES 1594, 2607

STEAM PRESSES 1475

STEAM TABLE
False Bottoms/Grates 1449
Pans & Lids 1449

STEAM TRAP REPLACEMENT PARTS . . . 3038

STEAM TRAPS 2901-2903, 3038

STEAMER REPLACEMENT PARTS 1461

STEAMERS 1475, 1622

STEEL WOOL 1548-1549

STEEL,
Angle 2186
Blank 2186-2187
High-Carbon 2186-2187
Low-Carbon (Mild) 2179-2180, 2186-2187
Rod 2186-2187
Sheet 2179-2180, 2187, 2192
Tube 2186

STEERING WHEEL
Covers 948
Pullers 914, 916

STEM EXTENSIONS,
Ball Valve 2864-2865

STEMS,
Acetal Push-to-Connect 2850
Caster 1214
Float Valve 291
Plastic Tubing 2850

STENCIL
Characters 1935
Consumables 1403
Machines 1403
Consumables 1403
Rollers 1403

STENCILS 1935

STEP
Blocks 2317
Drill Bits 704, 851
Key Stock 2177-2178
Lights 463
Stands 1031, 1035-1036, 1047-1048, 1350
Stool Replacement Parts 1047
Trash Cans 1557

STEP STOOLS,
Aluminum 1031, 1047
Fiberglass 1031
Plastic 1047, 1350
Steel 1031, 1047-1048, 1350

STEPLADDERS,
Aluminum 1024-1027, 1031
Dual-Access 1024-1026, 1028
Fiberglass 1024-1028, 1030-1031
Safety 1027, 1030-1031
Steel 1031
Tripod 1028

STEPS,
Fold-Up 959, 1047
Truck 959

STERILIZERS 641

STETHOSCOPES 920

STICK
Lubricants 2443, 2457
Welders 2416, 2418, 2421

STICKS,
Fish 848
Glue 1361, 2238
Light 680, 965, 1906, 1923
Paint Mixing 1620
Putty 905, 1361, 1884
Static Discharge 1711
Temperature Indicator 585, 2428

STIRRERS,
Laboratory 646, 651

STIRRING BARS 646

STOCK
Boxes 1400-1402
Carts 1155-1157, 1163-1166
Pickers 1032-1033, 1042
Picking Carts 1150-1151, 1154-1155, 1157, 1161
Picking Ladder Conversion Kits 1038
Picking Ladders 1034-1035, 1039
Tanks 1297
Truck Trays 1293
Trucks 1150-1151, 1157, 1161-1166

STOCKROOM TRUCKS
. . . . . 1151, 1154, 1157, 1161, 1163-1165

STONE SEALANTS 1533, 2230

STONES,
Pumice 1481, 1549
Rotary Tool Grinding 724, 2392
Sharpening 813, 2393

STOOLS,
Bar 1444
Cleanroom 1335
Creeper 945
Drafting 1333-1334
Ergonomic 1333, 1335
Laboratory & ESD 945, 1333-1335, 1350
Sit/Stand 1335
Step 1031, 1035-1036, 1047-1048, 1350
Swivel 1333, 1335
Tool Trolley 945, 1333

STOP
Collars 123
Controls 243, 245, 247, 250-255, 274-275, 278
Signs 1915, 1917

STOPPERS,
Drain 2723, 2748
Labware 652

STOPS,
Collar 123
Conveyor 1108, 1118
Door 1985, 2003-2005, 2762
End 1092, 1108, 1118, 2554, 2806, 2850
Kick Down 2003
Pallet Truck 1173
Parking 1131
Water Supply . . . 2718, 2723, 2744, 2807, 2850

STOPWATCHES 582

STORAGE BIN
Cabinets 1277-1278, 1303, 1305, 2055
Carts 1280-1281, 1292-1293, 1297
Dividers 1279-1280, 1282, 1284-1291, 1294, 1307
Floor Stands 1281, 1289
Lids 1282, 1292, 1294-1295, 1301, 1306
Panels 1280-1281
Racks 745, 1280-1285, 1287-1291, 1297, 1306
Tip out Frames 1289
Windows 1282, 1287

STORAGE BINS,
Clear 1280, 1287-1290, 1294
Heavy-Duty 1280, 1282, 1286-1288, 1294, 1298, 1306
Hopper 1280, 1282-1284, 1286-1288
Mobile 1280, 1287, 1304, 1451
Plastic 745, 747, 1277-1278, 1280, 1282-1294, 1301, 1304, 1329, 1451
Revolving 1305, 1307
Tip-Out 745, 1277-1278, 1289

STORAGE BOXES,
File 1381
Food Service 1286, 1292-1293, 1295, 1450-1451, 1456
Outdoor 994, 1296, 1309
Packing 1296, 1400-1402
Parts . . . 745, 747, 1292-1296, 1298, 1302-1305
Stacking 1292-1298, 1302, 1304, 1381
Tool 741-743, 745-749, 753, 886, 1296, 1303-1304
Truck 750-753, 1304

STORAGE BUILDINGS
. . . . . 1309-1310, 1866, 1873

STORAGE CABINETS,
Aerosol Can 1307, 1871
Bin 1266, 1277-1278, 1303, 1305-1306
Fastener Assortment 2055
File 1274, 1337, 1344-1345
Flammable & Hazerdous Material . . . 1868-1873
Garage 1276
Gas Cylinder 1873
Jobsite 748-749, 1267, 1269, 1271-1273
Mobile . . . 741-744, 747-749, 945, 1149, 1157, 1169-1170, 1172, 1263, 1271-1272, 1328
Modular 1170, 1263-1265, 1276
Paint 1869, 1872
Parts 1169-1170, 1263-1266, 1268, 1270, 1273, 1275-1278, 1303, 1305-1307, 1318-1319, 2055
Pegboard 1266, 1268
Pesticide 1871
Preassembled 1266-1275, 1277-1278, 1326, 1328
Safety 1868-1873
Security 1264, 1266-1275, 1277-1278, 1326, 1328, 1968
See-Through 1266-1267, 1271-1273, 1278, 1289, 1303, 1328, 1346
Stainless Steel 1267, 1269-1270
Table-Top 1267
Tool 741-745, 748-749, 945, 1149, 1169-1170, 1263-1270, 1273, 1275-1278, 1307, 1319, 1325-1326
Truck/Van 751-752
Unassembled 1270-1273, 1275-1276
Wall-Hung 1270, 1273, 1275-1276, 1307, 1871
Wardrobe 1267-1270, 1272-1275, 1337
Welded . . . 1266-1275, 1277-1278, 1326, 1346
Wire and Terminal 1307
Work Table 749, 1149, 1169-1170, 1319, 1325-1326

STORAGE CASES
. . . . . 747, 1294, 1302-1304, 1774, 2800

STORAGE DRUM
Overpacks 1138, 1854, 1861
Racks 1143, 1864

STORAGE DRUMS
. . . . . 1138-1139, 1573, 1861, 2695

STORAGE LOCKERS,
Bulk 1262

STORAGE RACKS,
Bin . . . . . 745, 1280-1285, ... 1287-1291, 1297, 1305-1307
Bulk . . . . . 1143, 1226, 1231-1233, ... 1238-1240, 1245, 1251-1252
Cantilever 1238
Chemical 1251-1252, 1521-1522, 1525
Gravity-Flow 1245
Modular . . . 1239-1240, 1280-1285, 1288-1291
Pallet 1226-1229
Pipe 849, 1168, 1238-1239, 1307
Record 1231-1232, 1239-1240, 1245
Turnout Gear 1817

STORM DRAIN INLET GUARDS 1858

STOVE TOP REPLACEMENT PARTS . . . 1461

STRAIGHT
Edges 884, 1359, 2334-2335, 2422
Flute Taps . . . . . 2141, 2262-2264, 2267, ... 2270, 2274-2275
Router Bits 731, 2297
Shaft Grinder Abrasive Wheels 734, 737, 2383-2385, 2388

STRAIGHT-BLADE
Connectors 334, 339
Inlets 330
Plugs 334-335, 338-339
Receptacles 330-333, 339, 412

STRAINER REPLACEMENT PARTS
. 2895-2897

STRAINERS,
Abrasive Blasting 2402
Basket 2896-2897
Cooking 1450
Drain 2723-2725, 2727, 2748
In-Line 2691, 2694, 2897, 2901
Mesh 2723
Paint 1622
Pump 2632, 2641, 2658, 2675, 2677, 2691
Sink 2723-2724, 2727
Solenoid 2587
Suction 2495, 2632, 2677
T- 2897, 2901
Urinal 2757
Y- 2895-2896, 3038

STRAP
Clamps 2533, 2535
Fasteners 2171
Load Huggers 1104-1106
Wrenches 867, 919

STRAPPING
Buckles 1103, 1421, 1423-1424, 2535
Cutters 815, 817, 1419-1420
Dispensers 1404, 1419, 1424
Edge Protectors 1424
Hand Tools 1419-1424
Kits 1419, 1421, 1424
Machines 1424
Seals & Sealers . . .963, 1419-1420, 1422-1424
Tape 1395, 1397, 1421, 1424
Tensioners 1419-1424
Tools 817, 1419-1424
Tools, Pallet 817, 1419-1424

STRAPPING,
Banding 1419, 1421-1424, 2533, 2535
Pallet 1419, 1421-1424, 2535
Polyester 1421-1422, 1424
Polypropylene 1421, 1423-1424
Steel 1419, 2533, 2535
Tie-Down 1103

STRAPS,
Antistatic 561, 921, 1320
Backboard 1822
Battery Grounding 924
Binocular Floating 2041
Cable 1393-1394
Cam Arm 1394
Cam Buckle 1104, 1106
Cinch 1394
Column Protector 1132
Conduit 317-320
Copper Pipe/Tubing 319, 2796, 2827-2828
Cross-Arm 1790, 1792
Duct 2827
EMT 319
Equipment/Furniture Safety 2171
Hook and Loop 1393-1394
Logistic 1104-1106
Nail 319
Pipe 316, 319-320, 2796, 2826-2828, 2837
Raceway 306
Reclosable Fastener 1393-1394
Shoulder 757
Stretcher 1822
Suspension Relief 1793, 1795, 1798
Tarp 1102-1103
Thermal Imager 613
Tie-Down 1102-1106
Tow 965, 1084, 1106
Tubing . . . 316, 319-320, 2796, 2827-2828, 2837
Vehicle Recovery 965, 1084, 1106
Water Heater 2716
Webbing 1103
Winch 1104-1105
Wrist & Heel 561, 921, 1320

STRAW DISPENSERS 1434

STREET
Brooms and Brushes 1539-1540
Keys 2751

STRETCH
Wrap 1414-1416
Wrap Cutters 1417
Wrap Dispensers 1417
Wrap Handles 1417
Wrap Machine Ramps 1417
Wrap Machines 1417

STRETCHER
Casters 1195, 1202-1206, 1209-1214
Lifting Harnesses 1822
Straps 1822

STRETCHERS,
Carpet 891
Duct 816
Rescue 1821-1822

STRIKES,
Door 1974, 1977
Electric 1977

STRING 1097

STRINGERS,
Power 412

STRIP
Brush Holders 1117
Brushes 1117
Heaters 3063, 3065-3066, 3079-3080
Lighting Fixtures 436-444, 455

STRIP DOOR
Bulk Rolls 1120-1121
Hardware & Replacements . . . 1120-1121, 1451

STRIP DOORS 1120-1121, 2409

STRIPING
Machines 1611, 1627-1628
Paints 1610-1612

STRIPPER BLADES 366, 846

STRIPPERS,
Baseboard 1523
Cable . . . . . 345, 365-366, 671, 815, 841, ... 846, 854-855, 859
Coaxial Cable 365-366, 841, 846, 854
Fiber-Optic 365
Floor 1521-1523
Twisted Pair 383, 841, 854
Wallpaper 1622
Wire . . . . . 345, 365-366, 383-384, 671, 808, . . .814-815, 841-842, 846, 848, 854-855, 859

STRIPPING
Brushes 1579, 1583
Pads 1536, 1548, 1584, 1586

STRIPS,
Barrier 395
Buna N 2198, 2200, 2202
Coolant Test 918
Felt 2215
Firestop 1883
Magnetic 829-830, 1332, 1367, 1926
Plastic Bulk 1120-1121
Power . . . 304, 353, 402-403, 1320-1321, 1343
Rubber 2200, 2202-2205
Seal 1124, 1391, 1999, 2001, 3092
Shelving Base 1242
Shower 1901
Slip-Resistant 1900-1901
Sponge Rubber 1999, 2200, 3092
Stainless Steel 2191
Stall Door Privacy 2762
Terminal 395
Vinyl Bulk 1120-1121
Water Test 632, 2702
Weather . . . 1124, 1391, 1999-2001, 2198, 3092

STROBE LIGHTS,
ADA-Compliant 1881
Fire Alarm 1881, 2052, 3029
Indicator 280, 1885
Vehicle 969, 972-973
Warning . . . . . 279-280, 972, 1175, ... 1885-1886, 1888, 2052, 3029

STROBOSCOPE CASES & LAMPS 567

STROBOSCOPES 567

STRUCTURAL
Bolts 2071
Nuts 2081
Pipe & Fittings 1308
Wrenches 796

STRUCTURAL FRAMING
Accessories 1119
Base Plates 316, 1119
Brackets 316, 1119, 2019
Fasteners 318, 1119
Floor Mounts 316

STRUCTURAL WASHERS,
Flat 2096
Round Raised 2096
Square Beveled 2096

STRUCTURES,
Temporary 980

STRUTS,
Framing 316

STUB OUTS,
Copper Pipe/Tubing 2796, 2801, 2805

STUCCO PATCHING COMPOUNDS 1597

STUD
Anchors 2172
Bushings 853
Extractors 2260
Finders 885
Punches 853
Removal Electrodes 2417
Removers 2260
Sensors 885

STUDS,
Grounding 392
Mounting 2145-2146, 2172
Shoe 1747
Threaded 316, 2144-2146, 2172, 2197
Weld 2148

SUBBASES,
Air Conditioner 2993
Manifold Valve 2543-2545
Thermostat 3024

SUBMERSIBLE
Lighting 523-524, 526-530, 2639
Pump Control Boxes 2655
Pump Motors 2654-2655
Pump Replacement Parts 2626
Pump Seal Failure Relays 221

SUBPLATES,
Floor Outlet 312
Valve 2477, 2545

SUCTION
Cups 1065
Fittings 2636
Hoses . . . . . 2437, 2482, 2607, 2610-2612, ... 2635-2637, 2691
Paint Spray Guns 1626-1627
Pipes 2671
Strainers 2495, 2632, 2677
Tubing 937, 2437, 2613, 2675

SUGAR
Dispensers/Caddies 1440, 1443
Packets 1440

SUGGESTION BOXES 1350

SUITS,
Arc Flash 1707-1708
Disposable 1729, 1740
Encapsulated Chemical 1740
Flotation 1810
Level B 1740
Rain 1729-1730
Spray 1623

SULFUR DIOXIDE DETECTORS
. . . . . 622, 1776-1781

SUMP CLEANERS 2460

SUMP PUMP
Alarm Panels 2629, 2655
Alarms 2622, 2629
Bases 2626
Basins & Basin Covers 2630
Controls 2029, 2622, 2629, 2655
Replacement Parts 2626
Switches 2620, 2622, 2628-2629
Valves 2627

SUMP PUMPS,
Automatic 2619-2621, 2631
Backup 2621
Commercial 2619-2622, 2631
Elevator 2622
High-Temperature 2620
Manual 2619-2620, 2631
Marine 2631, 2691
Residential 2619-2620, 2631
Spill Control 1863
Submersible 2619-2622, 2625-2626, 2631
Upright 2620-2622

SUN SHADES 1484

SUNSCREEN 1498, 1829

SUPPLIED AIR
Hood Systems 1770-1772
Respirators 1769-1773

SUPPORT
Braces 1126
Hooks, Cable 318

SUPPORTS,
Air Conditioner 2990, 3094
Back 1706
Box 317
Brass Compression Tubing 2854
Cable Tray 307, 318
Clamp 833, 836, 2316
Conduit 308, 316-318, 407, 2824
Ergonomic 1335, 1706
Foot 1756
Gas Vent 3096
Pipe 316-321, 323, 874, 2074, 2425, 2788, 2796, 2799, 2807, 2824-2828, 2830-2832, 3096
Pipe Threading 873
Platform End 1040
Structural Framing 1119
Switch Box 308, 317
Toilet 2751
Tubing 319-320, 407, 2618, 2796, 2807, 2825-2828, 2830-2831, 2854
Workstation 1321
Wrist 1706

SUPPRESSION MODULES 163

SURFACE
Box Faceplates 356
Boxes 304-307, 355-356
Cleaners 642, 1503-1504, 1508-1514, 1518-1522, 1524, 1593, 1613, 1634, 2342, 2446, 2963
Grinders 2361
Levels 883
Plate Marking/Measuring Tools 2341
Plates & Plate Stands 2342
Protection Film 1099, 1623-1624
Protection Film Dispensers 1624
Roughness Gage Stands & Pick-Ups 2341
Roughness Gages 2341

SURFACE CONDITIONING
Belts 2364-2365
Discs 911, 1583, 2370-2379, 2382
Mandrels 2367, 2389
Pads 911, 1548, 1586, 2367, 2369, 2374
Wheels 2380-2382, 2389, 2391

SURGE
Air Tanks 2571
Arrestors 188, 190-191, 197, 203-204, 332, 353, 3031

SURGE PROTECTORS/SUPPRESSORS,
Hard-Wired 188, 190-191, 203-204, 3031
HVAC 3031
Plug-In & Power Strip 191, 402-403
TVSS (Transient Voltage) 163, 188, 190-191, 203-204, 353, 3031
UPS 213-214

SURGICAL LIGHTS 513

SURVEILLANCE
Cameras 2045-2048
Communication Kits . . . 2028-2029, 2031-2032

SURVEYOR'S
Leveling Rods 881
Tape 1907

SURVIVAL KITS 1835, 1837

SUSPENDER BELTS 1706

SUSPENDERS,
Air Brake Hose 962
Work 757

SUSPENSION
Frames, Workbench 1320
Relief Straps 1793, 1795, 1798
Tools 916, 953

SUSPENSIONS,
Hard Hat/Helmet 1638

SWABS,
Cleaning 232, 661, 954
Cleanroom 661
Cotton Applicator 954, 1830-1831, 1834
Test 1495

SWAGE
Fittings 1088-1089
Tools 868, 1089, 3010

SWAMP
Cooler Motors 56, 2998
Coolers 2921, 2998, 3000-3001

SWEATBANDS 1641

SWEATSHIRTS 1712, 1726

SWEEPER FORK TRUCK MOUNTS 990

SWEEPERS,
Floor 824, 990, 1569, 1580
Lawn 988, 990, 992, 1000
Magnetic 824, 990
Power 990, 992, 1569, 1580
Ride-On 1580
Shop 1580
Walk-Behind 1580

SWEEPING COMPOUNDS 1542, 1845

SWEEPS,
Door 2000

SWEETENERS 1440

SWIFFERS 1518, 1524

SWIMMING POOL
Basketball Equipment 1481
Brushes 1481
Chemicals & Dispensers 1480-1481
Cover Pumps 2641
Filters 2641
Ladders 1481
Lamps 494, 496
Leaf Skimmers 1481
Pump Motors 25
Pumps 2641, 2647, 2689
Safety Floats 1481
Strainer Baskets 2641
Thermometers 1481
Timers 418, 421
Trowels 892
Vacuum Parts 1481
Water Testers 631

SWING BOLTS 2317

SWINGING
Door Latches 2005
Doors 1121-1122, 1230, 1312, 1315
Gates 1035, 1312-1313, 1789

SWISS ARMY KNIVES 814

SWITCH
Actuators 264-266, 268-269, 271, 276-277
Boots 260, 262, 290
Box Supports 308, 317
Boxes 163, 167, 305-306, 308-311, 320
Covers 169, 175, 262-263, 288, 290, 308-310, 328
Enclosures 163, 167, 170, 173, 240, 248-249, 258, 275, 1979
Gauges 570
Keys 244, 276-277, 330
Lockouts 298, 330, 1946
Mats 278
Mounting Boxes 167, 305-306
Neutral Kits 176
Pilot Lights 167, 330
Relays 215, 217-218, 222-224, 423, 3035, 3041
Seals 260, 262

SWITCH PLATE THERMOMETERS 591

SWITCH PLATES,
GFCI (Ground Fault) 308, 328
Rotary 306, 328
Security 328
Style Line 306, 328
Toggle 262, 304, 308-309, 328
Weatherproof 309, 328

SWITCHBOARD
Fuses 177-180
Mats 1711, 1898

SWITCHED ENCLOSURES 175

SWITCHES,
2-Speed 2929
3-Way 247, 252-257, 262, 329-330, 333, 466-467, 873
4-Way 252-254, 256, 329-330
Air Circulator 2916
Air Compressor Pressure . . . 287-288, 290, 2559
Air Conditioner 3016, 3094
Air Flow Sensing 570, 3046, 3104
Air Pressure 288, 290, 570, 2600, 3046, 3104
Air Proving 570, 3046, 3104
Bilge Pump 2628-2629, 2640
Blower 174
Board 260
Cable Pull 274
Ceiling Fan 167, 465, 2916, 2922, 2944, 2946, 2949
Combination 330, 2949
Compact Limit 264, 267-271
Condensate 2662, 3092
Cord 330
Data 357
Decorative 329
Dehumidifier 3028
Differential Pressure 287, 570, 3046, 3104
Dimmer 465-467, 470
Disconnect 160, 167, 175-176, 298, 342, 924, 3071, 3075, 3077, 3094
Disposer 2732
Door 301, 1978
Drum 167
Electronic 260, 466, 2480, 2600
Enclosed 175, 217, 240, 249-250, 263-273, 275-277
Ethernet 357
Evaporative Cooler 2998
Exit 1978
Fan 167, 174, 419, 465, 2916-2917, 2922, 2929, 2944, 2946, 2949, 3046, 3077, 3104
Fan Control 167, 174, 419, 465, 2917, 2922, 2929, 2944, 2946, 2949
Fan Proving 570, 3046, 3104
Fixture 330
Float 291, 2620, 2628-2629, 2640, 2678-2679, 2681, 3007, 3046, 3092
Flow 2684, 2686-2687, 3046
Foot 263, 873
Fused 191
Fusible 175-176, 298, 3094
Garbage Disposer 2732
Hazardous Location 250, 263-264, 267
Heavy-Duty 175, 254, 262-265, 269, 273, 329-330, 333, 3035
Hydraulic Cylinder 2480
Hydraulic Pressure 289
Illuminated 242, 246, 260, 262, 328-330, 333
Infinite 3032
Joystick 243-244, 247, 251
Keyed 241-242, 244, 246-247, 251, 255-256, 275-277, 330
LAN 357
Light 329-330, 333, 419, 465-470
Light-Sensitive 414-416, 470
Limit 264-271, 276
Liquid Level 291, 2620, 2628-2629, 2640, 2678-2679, 2681, 3046, 3092
Load Break 298
Locking 242, 244, 246-247, 255, 275, 277, 330
Maintained Contact 165, 167, 240-247, 249-257, 259-264, 274-275, 329-330
Manual Motor Rated 165, 167
Marine 2628-2629, 2640
Miniature 268, 270-273
Momentary Contact 162, 167, 240-247, 249-257, 259-263, 274-275, 329-330, 469
Motion Sensor 462, 467-470
Motor 162-163, 165, 167, 174, 259-260, 273, 3045
Motor Control 160-165, 167-169, 171, 174, 217, 219-220, 250, 259-260, 275, 287
Motor Starting 160-165, 167-169, 171-172, 174
Network 357
Nonfusible 175-176, 298, 3094
Oil Level 2564, 2622, 2678-2679
Oiltight 254-255, 264-265
Panel-Mount 165, 167-172, 217-218, 223, 240-247, 251-257, 259-260, 262, 273, 275, 421
Pedal 263, 2620
Pendant Station 249
Photoelectric 281-283
Pilot Light 165, 167, 250, 328-330, 333
Pneumatic 263, 3041
Pneumatic Cylinder 2480
Pneumatic Electric 3041
Position 2480, 3041
Pressure 290, 570, 2600, 3016, 3046, 3104
Pressure Washer 1593
Proximity 283-286
Pull Cord 330
Pump 165, 167, 2620, 2622, 2628-2629, 2640, 2658, 2662, 2681, 3092
Pump Pressure 287-290, 3016
Push-Button 162-163, 240-245, 247, 249-255, 257, 259-260, 262, 275, 469
Push-Pull 245, 247, 250-255, 257, 275
Reed 2480
Refrigerant Float 3007
Relay 215, 217-223, 278, 3035, 3092
Rocker 260, 262, 329, 465-467, 470, 2916, 2949
Rotary 242, 246-247, 253-254, 256, 259-260, 465
Safety 160-162, 164, 168, 175-176, 263, 274, 276-277, 290, 298, 342, 1978, 2564, 3016, 3034, 3071, 3075
Selector 162-163, 174, 240-242, 244, 246-247, 250-257
Snap-Action 263, 268-270, 272-273
Style Line 329
Summer Fan 3077
Sump Pump 2620, 2628-2629
Tamper-Resistant 330
Thermostatic 231
Timer 223, 415-421, 2949, 3018
Tip-Over 3071
Toggle 165, 167, 245, 250, 259-262, 329-330, 333, 465-467, 2929
Unit Heater 3077
Vacuum 290-291, 570, 3046, 3104
Vacuum Cleaner 260
Vibration 174
Wall 167, 329-330, 333, 419, 465-468, 2922, 2929, 2949
Waste Disposer 2732
Water Pump 287-288
Watertight 254-255, 267, 290, 342
Wireless 470, 1978

SWIVEL
Fittings, Air Tool 2519
Hoist Rings 1068-1069
Hooks 1069-1071
Lifting Points 1068-1071
Nuts 2317, 3015, 3094
Snaps 2019

SWIVELS,
Pump Hose 2671
Rope 1091, 1807

SYNCHRONOUS GEARBELTS & GEARBELT PULLEYS 106-107, 114

SYRINGE FILTERS 662

SYRINGES,
Adhesive Dispensing 2235
Laboratory 660

T

T-
Bar Clips 317-318
Bevels 884
Braces 2019
Clips 2618
Handle Conversion Kits 2594
Handles 768-769, 771-772, 854, 1009, 1123, 2323
Knobs 1123, 2321, 2323
Nuts 1119, 2085, 2317
Plates 2019
Shirts 1712, 1726, 1812
Slot Clamps 2322
Slotted Structural Framing 1118-1119
Squares 884, 889, 2425

TABLE
Caddies 1168, 1340
Conveyors 1112-1113
Fans 2923-2924
Movers 1168
Napkins 1434
Ranges 1439
Risers 1349
Routers 2362
Saw Blades & Accessories 733-735
Saws 666, 677, 717, 733
Umbrellas 1482-1483

TABLE TENNIS EQUIPMENT 1479

TABLES,
ADA-Compliant 1483
Attached Seating 1483
Ball Transfer 1112
Computer 1343
Downdraft 2363, 3060
Dust Collector 3060
Folding 1169, 1325, 1340, 2426
Food Service 1323, 1325, 1462, 2730
Game 1479
Hydraulic Lift 1181-1182
Laboratory 1399
Lift 1181-1182
Lunch 1340, 1444, 1482-1483
Mailroom 1349, 1399
Meeting 1337, 1339-1340
Mobile 1150, 1169, 1339-1340, 1448, 2426
Office 1169, 1337
Outdoor 1482-1483
Packing 1399
Positioning 1178, 1181-1182
Refrigerated Preparation 1462
Rolling 1169, 1448
Round 1340, 1482
Scissor 1181-1182
Steel 1322-1325, 1483, 2426
Tilt 1169, 1181
Training 1339-1340
Utility 1169, 1323, 1325, 1399
Work 1169, 1316-1326, 1343, 2426, 2730

TABLET CHARGING DEVICES 1352

TABLETS,
Water Purifying 1837
Writing 1355, 1382

TACHOMETER ACCESSORIES 567

TACHOMETERS,
Contact 566, 2342
Dial 566
Digital 159, 226, 559, 566-567, 2342
Handheld 566
Laser 566
Panel-Mount 159, 559, 567
Photo 566, 2342
Programmable 159, 567

TACK CLOTH 1622

TACKER STAPLES & STAPLERS 890, 2500-2501

TACKERS,
Air-Powered 2500-2501
Cable 890
Electric 684
Hammer 890
Slap 890
Wire 890

TACKS 1359

TACTICAL
Boots/Shoes 1814
Clothing 1812-1813
Gloves 1807, 1813-1814
Hydration Packs 1828
Jackets 1811
Knives 813

TAG WIRE 1936

TAGS,
Accident Prevention 1938-1939
Blank 1404, 1936, 1938-1939
Caution/Danger 1404, 1938-1939, 1953
Confined Space 1938
Duplicate 1404
Identification 1071, 1380, 1404, 1936, 1938-1939
Inspection 1404, 1844, 1938
Key 948, 1936, 1966
Labeling 369, 371, 1404, 1938-1939
Lockout 1938-1939, 1949, 1951, 1953
Maintenance 1938-1939
Metal 1936
Numbered 1071, 1936
Pipe 1936
Safety 1936, 1938-1939
Self-Laminating 1938
Shipping 1404, 1938
Valve 1936
Wired 1404, 1938
Write-On 1404, 1936, 1938-1939

TAILGATE SPREADERS 951, 996

TAILLIGHTS 976-978, 1175

TAILPIECES,
Drain 2722, 2724

TAILPIPE TOOLS 917

TAKE-OUT FOOD CONTAINERS 1436

TALLY COUNTERS 227

TAMPER PLATES & SHANKS 714-715

TAMPER-RESISTANT
Bits 700, 702, 800-802
Heaters 3073-3074
Labels 368, 1395
Outlets 330-331, 333
Receptacles 330-333, 1556
Screwdrivers 702, 801
Screws 2101, 2104-2105
Switches 330
Wall Plates 328

TAMPERS 1009

TAMPON DISPENSERS 1494

TAMPONS 1494

TANK
Drain Kits 1297
Fittings 2767, 2779, 2817-2818
Flanges 2767, 2779
Heaters 3013
Ladders 1049
Mixer Replacement Parts 1141
Mixers 891, 1141, 1605, 2689
Stands 1137, 2437
Vents 2661

TANKS,
Air Compressor 2570-2571
Air Conditioner Condensate 2662
ASME 2570-2571
Carbon Dioxide (CO_2) 1180
Chemical Solution 1137, 2689
Dip 938-939
Expansion 2661, 2717
Floor Machine Solution 1579
Hydraulic Reservoir 2473, 2495
Lawn and Garden Water Sprayer 1002
Liquid Storage & Transfer 753, 931, 1137
Machine Tool Coolant 2692
Nitrogen (N) 2437
Oxygen Fuel 2430-2431, 2437
Paint 1625
Portable 1297, 1874, 2570
Precharged Water 2656
Propane (C_3H_8) 2437
Pump 2656, 2689
Refrigerant Recovery 3007
Soak 939
Solar Heater 2661, 2717
Stationary Air 2570-2571
Stock 1297
Toilet 2755-2756
Water 1002, 1137, 1297, 2656, 2661, 2715, 2717

TAP
Adapters 2265
Bolts 2056
Sets 2262-2265, 2275
Wrenches 2262, 2265, 2275, 2751

TAP AND DIE
Fluids 2351, 2427, 2457-2460
Sets 2262, 2265

TAP AND DRILL
Gages 2338
Sets 851, 2262

TAPE
Applicators 1357, 1394-1396
Die-Cut Shapes 1387-1390, 1392
Holders 1357
Kits 374
Label Making Kits 372, 1379
Labels 367-372, 1378-1379, 1406, 1927-1931, 1940
Lights 429
Machines 889, 1396, 1398
Measure Holders 755, 859
Measures 848-849, 875-876, 2837
Removers 1517, 2216
Rules 848-849, 875-876, 2837
Shooters 1396, 1398
Traps 860

TAPE DISPENSER
Brushes 1398
Water Bottles 1398

TAPE DISPENSERS
. . . . . 373, 1357, 1394-1396, 1398

TAPE,
Acrylic 1386, 1390-1392, 1394, 1397
Adhesive Transfer 1394
Aisle-Marking 1900-1903
Antiskid 1900-1901, 1903
Arc-Flash-Protective 374
Arc Welding 1386
Arrow Pipe 1932
Barricade 1907
Bottom-Board 1385
Box-Sealing 1384, 1395, 1397-1398
Bundling 1386, 1388, 1395, 1397
Butyl Rubber 3012
Carpet 891, 1385
Cash Register 1356
Caution/Danger 1900, 1907
Cloth 374-375, 1385-1388, 2963
Cold Temperature 1387-1389, 1391
Conduit-Measuring 849
Conspicuity 964
Construction 1391
Cork 3012
Correction 1359
Directional 1902, 1932
Document 1357, 1386
Double-Sided 1385-1386, 1390-1392, 1394, 1926, 2963
Drywall Mesh 889
Duct 1385-1388, 1391, 2963
Electrical 374-375, 905, 1387, 1389
Embossing 372
Filament 1395, 1397
Film 1386, 1388-1389, 1391
Finger Safety 1673
Fire Retardant 374
Fireproof 1386, 1883
First Aid 1830-1835, 1837
Fish 848-849
Flagging 1907
Floor-Marking 1900-1904
Foam 1390-1392, 1926, 1999, 3012, 3092
Foil 1387, 1883
Gaffer's 1386
Gas Line 2820
Glass Cloth 375, 1386-1388
Glow-in-the-Dark 1901-1902
Hazardous Area/Warning 1900-1903, 1907
Heat 639, 3067
High-Performance 1384-1392
High-Temperature 375, 1384, 1386-1389, 1394, 3012
Hot Melt 1391, 1397, 1404
House Wrap 1391
Insulation 1385-1387, 1389, 1391-1392, 2832, 2834, 3012
Joint 889, 1385, 1387, 1391
Kapton 1389
Kraft 1384, 1398
Label-Making 367-373, 1378-1379, 1406, 1450, 1927-1931
Low-Friction 1389
Machine 367-372, 375, 1378-1379, 1397, 1927-1931
Magnetic 829-830, 1926
Masking 1384-1386, 1388-1389, 1391
Measuring 848-849, 875-876, 2837
Mending 1357, 1386
Metal Bonding 1391
Metal Repair 1385
Nuclear 1385
Oil Gauging 876
Packaging 1388, 1395, 1397, 1401, 1404
Packing List 1404
Paper 1384, 1390-1391, 1398
Photoelectric Switch Reflective 282
Pipe 1932, 2222, 2224, 2820-2821, 2832, 2834, 2838, 2842, 3012
Pipefitter's 875
Plumber's 2827, 2842
Polyester 375, 1386, 1391, 1902
Polyethylene 1385-1386, 1389, 1391-1392, 1907
Polyimide 1389
Polypropylene 1387, 1391, 1395, 1397, 1404, 1907
Posiprinter 372
Pouch 1404
Powder Coating 1386
Preservation 1391
Printed Box-Sealing 1395
Printer 367-372, 1378-1379, 1927-1931
PTFE 375, 1388
Reflective 282, 567, 964, 1904
Reinforced 1395
Repositionable 1369
Roofing 1630, 2963
Rubber 374-375, 1384, 1391, 1395, 3012
Safety 964, 1395, 1673, 1900-1903, 1907
Scotch Transparent . . . 1357, 1394-1395, 1397
Sealant 1385-1388, 1391, 1630, 2222, 2224, 2820-2821, 2838, 2842, 2963, 3012, 3092

Seaming. 1386-1387, 1391, 1630, 2963
Sign 1386, 1392, 1926
Sound Damping 1387, 1389, 1392
Splicing 374-375, 1385, 1391
Strapping 1395, 1397, 1421, 1424
Surveyor's 1907
Tachometer Reflective 567
Tethering 859-860
Tissue 1394
Transparent . . . . 1357, 1386, 1389, 1391-1392, ... 1394-1395, 1397
UHMW 1389
UPVC 1395
VHB 1390
Vinyl. . . . . 367-370, 372, 374-375, 964, 1369, . . . 1379, 1386, 1391, 1901-1903, 1927-1931
Water-Activated 1398
Waterproof. 1386, 1830-1831, 1901
Wire Marker 367, 373

TAPER
Adapters 2311
Arbors 2315
Bushings 115
Drill Sleeves. 2315
Extension Sockets 2315
Files 818-820, 2393
Gages. 2338
Reamers 871, 2259

TAPERS. 889

TAPPING TOOLS
. . . . . 802, 2262, 2265, 2275, 2313, 2315

TAPS,
Acme 2267
Black Oxide-Coated 2268
Bottoming 2263-2272, 2274-2275
Bright Finish . . . . . 2262-2264, ... 2266-2270, 2272, 2274
Carbide 851, 2268, 2270, 2274
Cobalt 2266, 2268
DIA-Finish 2274
Drum 1140
EM-SS 2271, 2273
Extension 2267, 2273-2274
Forming 2266, 2268
Gun 2262, 2267, 2272-2274
Hand . . . . . 802, 851, 2141, 2262-2268, ... 2270, 2274-2275
Hard Lube Finish 2272
Helical Wire Insert 2137-2138, 2141, 2270
High Carbon Steel 2262, 2265, 2268, 2275
High-Speed Steel. 851, 2141, 2262-2275
Machine. 2262-2274
Nitride Finish 2266
Oil 2266
Oxide-Coated 2267, 2271-2272, 2275
Pipe 2262, 2265, 2268-2269, 2272, 2274
Plug 851, 2141, 2262-2275
Powdered Metal. 2267, 2271
Refrigerant Cylinder. 3013
Screw Thread Insert (STI) 2137-2138, 2141, 2270
Semi-Bottoming. 2268-2269, 2271
Spiral 2262, 2267-2268, 2270-2274
Steam-Tempered Oxide Finish 2266-2267, 2269, 2271-2272, 2275
Straight Flute. . . . . .2141, 2262-2264, ... 2267, 2270, 2274-2275
Straight Pipe 2268
Taper . . . 851, 2263-2264, 2268-2270, 2273-2275
Thread Forming 2263-2264, 2266-2268
Thread Mill. 2266
TiCN-Coated. 2266, 2269, 2274-2275
TiN-Coated. . . . . .2262, 2266, ... 2268-2269, 2274-2275
V-Coated 2266-2267, 2271
XPM Steel 2275

TAR REMOVERS . . .906, 908, 910, 1517, 1519

TARGETS,
Laser Level 880-881

TARP
Anchors 980, 1010
Straps 1102-1103

TARPS. 1010, 1100-1101

TASK CHAIRS. 1333-1336

TASK LIGHT
Magnifiers 515, 2340
Mounts. 1709

TASK LIGHTS . . . . . 440-441, 451, ... 513-517, 520-522, 670, 672, 674, ... 680, 691, 693, 754, 968, 2340, 2359

TEA BAGS/PODS 1437

TEAO (TOTALLY ENCLOSED AIR OVER) MOTORS . . . . .31-32, 35, 39-44, 46-47, 51-53, ... 55-59, 63-64

TEASPOONS. 1435

TECHNICAL MANUALS,
Engineer's Reference 2054
Fasteners Reference 2054

TECHNICAL WORKBENCHES 1318-1322

TECHNICIAN'S
Cases. 1304, 2539
Pouches. 755-756
Screwdrivers 799, 801-803, 854

TEES,
ABS Pipe 2808
Acetal Push-to-Connect. 2850
Air Duct 3097-3098
Aluminum Structural Pipe 1308
B-Vent 3096
Black Forged Steel Pipe. 2777
Black Malleable Iron Pipe . . . 2769-2770, 2773
Brass Barbed. 2849
Brass Compression Tubing 962, 2764, 2854-2856, 2860
Brass Flare Tubing 2853
Brass Instrumentation Pipe 2795
Brass Instrumentation Tubing 2860
Brass Pipe 2722, 2790-2795, 2853, 2855
Brass Push-to-Connect Tubing 962, 2558, 2806, 2850-2852
Brass Tubing . . . . 962, 2558, 2764, 2805-2806, ... 2849-2856, 2860, 3094
Bronze Tubing 2802
Carbon Steel Pipe 2779
Cast-Iron 1308
Copper Pipe/Tubing 2796-2802, 3015
CPVC Pipe 2812, 2815
Drain/Waste/Vent. 2722, 2798, 2808-2810
Ductile-Iron Pipe 2780
Galvanized Malleable Iron Pipe 2769-2770, 2773
Galvanized Steel Pipe 2770, 2777
Galvanized Steel Quick Fit Duct. 3098
Gas Vent Pipe. 3096
Nylon Push-to-Connect 2556-2557
Nylon Tubing 2556-2557
Plastic Compression Tubing. 2856
Plastic Pipe . . . . . .2617, 2680, 2722, 2806, ...2808-2810, 2812-2817, 2821
Plastic Tubing. . . . . .2554-2557, 2764, ... 2805, 2807, 2821, 2850, 2856
Polyamide 2586, 2617
Polybutylene Push-to-Connect 2554-2555
Polyethylene Tubing and Pipe 2807
Polypropylene Pipe 2722, 2816
Polypropylene Push-to-Connect 2850
PVC Barbed 2813
PVC Pipe . . . . . .2680, 2806, 2809-2810, ... 2812-2814, 2821
PVC Push-to-Connect 2813
PVDF (Polyvinylidene Fluoride) Pipe 2817
Raceway 304-307
Railing 1308
Stainless Steel Compression Tubing 2857-2859
Stainless Steel Instrumentation Pipe 2787
Stainless Steel Pipe. 2782, 2785, 2787
Stainless Steel Tubing . . . . . .2781, 2788, ...2803, 2851, 2857-2859
Steel Instrumentation Pipe 2780
Steel Press Pipe. 2804
Steel Tubing. 2781
Voice/Data Cable Duct. 293

TEFC (TOTALLY ENCLOSED FAN COOLED)
DC Motors 27, 33
Motors . . .9-10, 12-13, 15-24, 26-34, 40-42, 64

TELECOMMUNICATION
Firestops 1883-1884
Test Sets 362-365
Tool Sets 364-365

TELEPHONE
Amplifiers 2036
Cables 349, 357
Headsets 949
Jack Boxes 355-356
Jacks & Jack Blacks 356
Line Testers 363-365
Plates. 328, 355-356
Plugs 355
Ringers 1885, 2036
Signs 1921
Wire Crimpers . . . . . 365, 383-384, 389, ... 814, 841, 846-847, 855
Wire Strippers 383

TELEPHONES. 2034-2036

TELESCOPING
Dusters 1538
Gages. 2336
Handles 1534, 1546-1547, 1551
Ladders 1027-1028
Mirrors. 824, 1913
Paint Poles. 1618-1620, 1625
Planks 1028

TELEVISION
Monitors. 2050
Remote Controls 2022

TELEVISIONS,
HD (High-Definition) Digital 2021-2022

TEMPERATURE
Alarms 586-587, 610, 615, 1455
Baths 562, 597
Calibrators 562, 597, 604
Chart Recorders. 584, 598
Data Loggers . . . . . .543, 562, 580, 584, ...587, 591-595, 618, 620-621, 628, 3008
Displays. . . . . 559, 583-588, 590-591, ... 594, 637, 1455, 3026
Gauges. 577, 588-589, 593, 2806
Indicator Sticks 585, 2428
Meters . . . . . 225, 537-540, 543-544, 558-559, ... 571, 583-588, 590-595, 597, ... 600-613, 615, 619-621, 627-629
Monitor Accessories 596
Monitors. . . . . 537, 543, 562, 580, 584-587, ... 590-595, 597, 600, 610, 615, ... 620-621, 3008, 3040, 3042
Pilots 3034
Probes . . . . . 230-231, 537, 548, 584, 591, ... 595-597, 604, 618, 620
Recorder Chart Paper 599
Recorders . . . . . .562, 580, 584, 587, ... 592-594, 598, 3008
Regulators 229, 2891
Sensors . . . . . 230-231, 591, 593, 595-597, ... 600, 603-604, 630, 3018, 3021, ... 3026-3027, 3037, 3040, 3079
Sequencers 3026
Stage Modules. 3026
Testers. . . . . 536-540, 543-544, 556, 558-559, ... 562, 571, 584-588, 591-595, ... 597, 600-604, 607, 610, 615, ... 619-621, 627-629
Thermocouple Modules. 548
Thermocouples 230, 639
Transmitters. 600, 3040

TEMPERATURE CONTROL
Boxes. 229
Housings 3025, 3027
Knobs, Thermostat. 3025
Units . . . . . 229, 639, 3019, 3024-3025, ... 3028, 3030, 3071, 3077, 3081

TEMPERATURE CONTROLS,
Analog 229
Building Automation 3027
Electronic. 229, 3024, 3026-3028, 3030
Infinite 3032
Pneumatic 3040, 3042
Refrigeration 3018-3019, 3025-3026
Thermostatic . . . . . 229, 2995, 3020-3025, ... 3027, 3030, 3034
Variable 3024-3025
Water Cooler 3019

TEMPERING VALVES,
Brass . . . . . 1844, 2727, 2744-2745, ... 2748, 2908-2909
Bronze 1844, 2745, 2757, 2908-2909
Copper 2908
Thermoplastic 2908

TEMPORARY POWER
Box Parts 412-413
Boxes. 413
Cord Adapters 413
Cords 412-413
Panels 412

TENNIS EQUIPMENT. 1478

TENSION GAUGES . . . 96, 105, 568, 919, 2351

TENSIONERS,
Adjusting 120-121, 1422
Chain/Belt 96, 120-121, 1115
Drive 120-121
Elastomeric 121
Fence. 839
Strapping. 1419-1424

TENT
Cots 1823
Screens 980

TENTS. 980, 1823

TENV (TOTALLY ENCLOSED NONVENTILATED) MOTORS
. . . . . 12-13, 15, 18-20, 27-29, 31, 33-35, ... 42, 57, 59, 61, 64, 2654

TERMINAL
Blown Fuse Indicators 394
Disconnects. 383-384, 388-389
Mounting Channel End Clamps 394
Strip & Strip Parts 395
Tools 917

TERMINAL BLOCK
Channels 394
Clamps. 395
End Barriers. 394-395
Jumpers. 394-395
Marker Strips. 395
Partition Plates 395

TERMINAL BLOCKS 394-395

TERMINALS,
Battery. 924
Block Fork 383-384
Bullet 383
Crimp 386
Feeder 392
Fork 288, 383-384
Heat-Shrink 383-386
Insulated 383-386, 388-389, 2424

Locking Fork 384
Pin 386
Quick-Connect 288, 383
Ring 381, 383, 385
Solderless 383-386, 389
Spade 288, 383-384
Wire 351, 381, 383-389, 924, 2559

TERMINATORS,
BNC 351
End of Line 3027
F-Type 351

TEST
Clips 537, 546, 549-550, 924
Cocks 2905-2906
Cords 400
Gauges . . . 573, 575-579, 588, 2471, 2602, 2822
Indicator Bases & Holders 2333
Indicators 884, 2331-2333
Plug Poles 2822
Plugs, Plumbing 2822-2823
Probes 230-231, 537, 548-550, 596-597
Pumps 563, 874, 2637, 2822
Strips 632, 918, 1613, 2702
Swabs 1495

TEST INSTRUMENTS (SEE METERS AND TESTERS)

TEST KITS,
Abrasive 2381
Acid 2702
Airflow 1780
Alkalinity 631, 2702
Ammonia 631
Arsenic 632
Backflow Preventer 2904
Bacteria 631, 1480, 2702
Caustic 631
Chlorine 631, 2702
Coliform 631
Copper 631, 2702
Dissolved Oxygen 631
Fiber-Optic 363
Finishing 2381
Gas Pressure 571, 576, 578, 3010
Hardness 631, 2702
Iron 631, 2702
Lead 550, 632, 2702
Multimeter 537, 549-550
Nitrate/Nitrogen 631, 2702
Oil 2491, 3012
Pesticide 2702
pH 631, 1480, 2702
Phosphate 631
QAC (Quat) 631
Sulfide 631
Telecommunication 362-365
Tone 364-365
Viscosity 2491
Water 578, 627-628, 631-633, 1480, 2702

TEST LEAD
Adapters 561
Binding Posts 561
Clips 537, 546, 549-550
Probes 537, 549-550
Sets 537, 548-550, 560

TEST LEADS,
Meter 537, 539, 546, 548-550, 558, 560

TEST TUBE CAPS & RACKS 650

TEST TUBES 650, 657

TESTER
Calibration Sets, Hardness 2341
Cases 362, 536-537, 539, 546, 548-549, 557, 565, 604
Holsters 546, 548
Power Cords 362, 568
Tape 567
Temperature Probes 230-231, 537, 548, 591, 595-597, 604
Test Clips 550
Thermocouple Connectors 596
Thermocouple Modules 548

TESTERS,
(See Also Meters)
Air Brake 961
Air Conditioner 2494, 3008-3010
Air Quality 543, 584, 617-619
Air Velocity 543, 571-572, 583, 619-621
Air Volume/Flow 543, 572, 618-621
Ammeter 225, 536-544, 551-552, 556, 558-559, 562
Anemometer 543, 571-572, 583, 620-621
Antifreeze 626, 918, 2462, 3012
Automotive . . . 537-538, 626, 918-922, 961, 2462
Battery 626, 629, 921-922
Bearing 568
Boiler 617
Cable 362-366, 564-565
Calibration 544, 562-563, 874, 2637
Capacitance 536-540, 543-544, 558
Carbon Dioxide 543, 584, 593, 617-618
Carbon Monoxide Detector 617-618, 3029, 3096
Chlorine 627, 630-632, 2702
Combustion 617, 623
Communications 362-365
Compression 568, 920
Conductivity 627-629
Continuity 362-365, 536-546, 551-553, 556, 558, 562, 564-565
Coolant 626, 918, 2462
Current 225, 536-547, 551-552, 556, 558-559, 562, 564
Cylinder Compression 920
Cylinder Leakage 919
Dial Tone 363-364
Dielectric 547
Diesel Engine 626
Differential Pressure 571-572, 619
Differential Temperature 594-595
Diode 536-544, 551, 556, 558
Dissolved Oxygen 627-628, 631
Drench Shower 1842
Duty Cycle 536-537
Earth/Ground Resistance 540, 555, 557
Fiber-Optic 362-364
Flow 555, 2670, 2680, 2682-2687
Force 568
Frequency 536-544, 551, 558-559
Furnace 572, 617, 619
Fuse 187
Gas Leak Detector 622, 3008, 3010
Gas Pressure 571-572, 576, 578, 3010
GFCI (Ground Fault) 545, 547
Hardness 2341-2342
Humidity 571, 584, 587, 593-595, 619-621, 1413
Insulation 553-554, 556, 603
Lamp 625
LAN 362-363, 365, 565
Leakage 556, 621-622, 946, 2494, 2820, 3008-3010, 3012
Light 571, 625, 961
Manometer 571-572, 619, 3010
Megohmmeter 553-554, 556
Motor Rotation 546, 555, 566, 2342
Multimeter 536-544, 551, 556, 558, 562, 607, 620
Ohmmeter 536-544, 551, 553, 556, 558
ORP (Oxidation-Reduction Potential) . . . 627-628
Outlet 547
Oxygen 628
Ozonated Water 632
pH 627-629, 631-632, 1480, 2462, 2702
Phase Rotation 545-546, 555
Phone Line 363-365
Pressure 563, 571-572, 578, 874, 918-919, 2637
Quaternary 632, 2702
Railroad Signal 539
Receptacle 547
Refractometer 626, 2462, 3012
Refrigeration 2494, 3008-3010
Relative Humidity 571, 584, 587, 593-595, 600, 607, 619-620
Resistance . . . 536-544, 546, 551, 553, 556, 558
Smoke Detector 1882, 3029
Sound Level 539, 624
Speed & Tachometer . . . 159, 559, 566-567, 2342
Starting System 921-922
Static 561
Static Control Wrist Strap 561
Strain 225, 568
Stroboscope 567
Surface 2341
TDS (Total Dissolved Solids) 627-628
Temperature 536-540, 543-544, 556, 558-559, 562, 571, 584-588, 591-595, 597, 600-604, 607, 610, 615, 619-621, 627-629
Timing Light 920
Tone 363-364
Transformer 555
True RMS 536-544, 551-552, 556
Turbidity 631
Vacuum/Pressure 919
Vehicle 537-538, 626, 918-922, 961, 2462
Viscosity 651
Voltage 536-547, 551-552, 556, 558, 562, 607, 921, 1711
Water Level 633, 2629
Water Quality 627-629, 631-632, 2462, 2702
Wire Tracing 362-365, 547, 564-565
Wood Moisture 543, 600

TETHER ANCHORS 858-860

TETHERS,
Tool 858-860

TEXTILE CASTERS
. . . . . 1195-1199, 1201-1203, 1205-1206

TEXTURE
Brushes 889, 1544
Sprayers 889, 1629-1630

THEODOLITES 881

THERMAL
Anemometers 543, 620-621
Clothing 1720, 1726
Foam 2236
Imager Accessories 548, 601, 603, 605-606, 609, 612-615
Imagers 542, 605-613, 615
Pads 219
Pump Protectors 2694
Socks 1757
Transfer Printers 367, 371-372, 1378-1379, 1927-1930
Transfer Ribbons 371, 1927
Units, Motor Starter 162, 165-166, 174

THERMISTOR PROBES 595

THERMISTOR THERMOMETERS
. . . . . 571, 586-587, 595, 620-621

THERMOANEMOMETERS 543, 620-621

THERMOCOUPLE
Adapters 230, 537, 548, 596
Cable Clamps 230
Calibrators 562, 597
Compression Fittings 230
Connectors, Plugs & Jacks 230-231, 596
Extension Cables 230
Grommets 230
Modules 548
Mounts 230
Probes 230-231, 537, 548, 596-597, 604
Thermometers 543, 587, 591-592, 597, 604, 1455
Wire 230-231

THERMOCOUPLES,
Pilot Ignition System 3034
Pipe Clamp 596
Power Generator 3034
RTD (Resistive Temperature Detector) 230
Spring 230
Temperature 230, 639
Type J 229-231, 596-597, 639
Type K 229-231, 537, 596-597, 604, 639
Type T 596

THERMOHYGROMETERS
. . . . . 583, 587, 594-595, 619

THERMOMETER
Clocks 586-587
Gripping Handles 588
Pouches 548, 601
Probes 230-231, 537, 548, 584, 591, 595-597, 604
Sockets 589-590, 2891
Thermowells 589-590, 2891

THERMOMETERS,
Adjustable-Angle 588-589
Alarm 586-587, 592-593, 601-602, 1455
Bimetal 585, 588
Boiler 589
Candy 1455
Cold Room 584, 586, 588, 1455
Cover Plate 591
Critical Temperature 586
Data Logging 586-587, 592-594, 597
Dial 584-586, 588-589, 1455
Differential 587
Digital 537-539, 543, 559, 566, 583, 585-587, 589-592, 594-595, 597, 601-604, 628, 1455
Faceplate 591
First Aid/Medical 603
Flat-Surface 584, 586-588
Food 585-587, 603, 1455
Grill 586, 596, 1455
HACCP 585, 587, 1455
High-Temperature 537, 587, 591-592, 597, 601-602, 604
Holding Cabinet 586, 1455
HVAC 537, 589, 601-602, 604
Hygrometer 571, 587, 594-595
Indoor/Outdoor 584, 587
Industrial 588-589
Infrared 537-538, 542-543, 566, 587, 594-595, 601-613, 615, 620, 672, 1455
Laboratory 585-586, 637, 639
Liquid-in-Glass 585, 589, 637, 639
Maximum/Minimum 537, 587, 592, 595, 597, 601-602, 621
Mercury-Free 584-585, 587, 589, 595, 637, 639
Noncontact 537-538, 587, 601-613, 615, 672, 1455
NSF-Certified 585-588, 590, 1455
Oven 637, 1455
Panel-Mount 559, 586, 588-591
Pocket Test 537, 585, 587, 595, 601, 604, 1455
Pool 1481
Process Output 589
Psychrometer 594-595
Reference 597
Refrigerator/Freezer 586-588, 590, 1455
Remote 537, 586-588, 591-592, 594-595, 597, 601-603, 610, 615
RTD (Resistive Temperature Detector) 597
Scale 589
Solar Powered 589-590
Stem 585, 588, 1455
Thermal Imaging 607-608
Thermistor 571, 586-587, 595, 620-621
Thermocouple 543, 587, 591-592, 597, 604, 1455
Vaccine Storage 586
Vapor Tension 588
Wall-Mount 584, 586-587, 589
Waterproof 585-587, 1455
Wireless 537, 583, 587, 592, 595

THERMOPILES 3034

THERMOSTAT
Adapters 3040
Cables 349
Calibration Tools 3040
Cover Removers 3040
Covers 3022, 3040

Energy Saving Devices 3019
Guards 3022, 3040
Housings 3025
Knobs 3025
Lock Boxes 3022
Modernization Kits 3040
Mounting Brackets 3035
Plates 3021, 3027-3028
Power Modules 3026
Recycling Kits 511-512
Sensors 231, 3020-3021, 3026
Subbases 3024
Wall Plates 3020-3021, 3027-3028
Wireless Receivers 3021

THERMOSTATS,
Air Conditioner 2968, 2993, 2995, 3020-3021, 3023-3025, 3028
Airstream 3040
Attic Fan 2968
Automatic Change-Over 3028
BAC (Building Automation Control) 3040
Baseboard Heater 3024, 3026, 3072
Boiler 2658, 3025-3026, 3030
Built-In Heater 3071, 3077
Cal-Stat 3065
Cartridge 3065
Commercial 2993, 3020-3025, 3028, 3032, 3071, 3077
Cooling Tower 3025
Coupling Head 3065
DA/RA (Direct- and Reverse-Acting) 3040
Digital 3020-3024, 3027-3028, 3071
Direct-Acting (DA) 3040
Double-Pole 3024-3025, 3028, 3033, 3071-3072, 3075
Double-Pole Double-Throw (DPDT) 3024, 3028
Double-Pole Single-Throw (DPST) 3024-3025, 3033, 3072, 3075
Duct-Mount 3040
Economy 3023
Electric Heat 3024-3026, 3035, 3071-3072, 3074, 3077
Electromechanical 3023
Electronic 2993, 3020-3023, 3026-3027, 3071
Fan 2968, 3024, 3028
Fan Coil 3028
Floor Heater 3071
Food Equipment 3065
Hazardous Location 3028
Heat Only 3023-3025, 3074, 3083
Heat Pump 3020-3023, 3025, 3091
Heater 3023-3026, 3034-3035, 3071-3072, 3074-3075, 3077, 3083
Heating/Cooling 3020-3028, 3030, 3034
Hydronic Heating 3072
Industrial 3023-3026, 3028, 3065-3066
Line Voltage 3019-3020, 3022-3026, 3028, 3030, 3034, 3074
Low-Temperature-Detection 3025
Low-Voltage 3020-3023, 3027-3028
Manual-Control 3023
Microelectronic 3020-3023
Moisture-Resistant 2928, 3024-3025
Multipurpose 3024-3025
Multistage 3020-3025
Outdoor 3091
Pipe Thread 3065
Pneumatic 3040
Portable Heater 3023
Process-Control 3025, 3065
Programmable . . . 3020-3022, 3024, 3026-3027
Proportional 2658, 3025, 3030, 3040
Refrigeration 3018-3019, 3024-3026
Remote Bulb 3023, 3025-3026, 3030, 3040, 3066, 3071
Residential 3020-3024, 3026, 3028, 3034-3035, 3071-3072, 3077, 3091
Reverse-Acting (RA) 3040
Single-Pole 2928, 2968, 3019, 3023-3026, 3028, 3030, 3071-3072, 3077
Single-Pole Double-Throw (SPDT) 2928, 3018-3019, 3024-3026, 3028, 3030, 3033
Single-Pole Single-Throw (SPST) 2968, 3019, 3023-3025, 3028, 3030, 3033-3035, 3071, 3074-3075, 3077
Snap-Action Switch 3023, 3066
Soldering 239
Touchscreen 3020-3021
Unit-Mount 3072, 3075, 3077
Universal 3021-3022
Wall 2995, 3020-3025, 3028, 3071-3072, 3075
Wireless 2947, 2993, 3020-3021, 3040

THERMOWELLS 589-590, 2891

THICKNESS GAGES . . . 569, 2180, 2337-2338

THIMBLES,
Cable 317, 1088
Gas Vent 3087
Wall 3087
Wire Rope 317, 1088

THIN-WALL CONDUIT 313

THINNERS,
Lacquer/Varnish 1613
Paint 1612-1613

THIRST QUENCHER
Freezer Pops 1825
Mixes 1825

THREAD
Checkers 2054
Forming Taps 2263-2264, 2266-2268
Gages 2054, 2262, 2265, 2338-2339
Insert Tools 2136-2138, 2143, 2505
Inserts 2136-2143
Repair Tools 2137-2138
Restoring Files 820
Sealants 905, 2222, 2224, 2819-2820, 2842, 3012
Snips 815-816

THREAD GUARD
Casters . . . 1195, 1197-1198, 1201, 1204-1214
Wheels 1215, 1218

THREAD MILLS,
3-Flute 2277-2278
4-Flute 2277-2278
5-Flute 2278
Carbide 2277-2279
Helical Flute 2277-2278
Single-Profile 2279
SS Finish 2278
Straight Flute 2279
TiAlN-Coated 2277-2279
TiCN-Coated 2278
WXS-Coated 2278

THREADED
End Caps 1224
Studs 316, 2144-2146, 2172, 2197
Tube Ends 1224

THREADED ROD
Air Line Adapters 2586
Anchors 318, 2147
Couplings 316, 2084, 2147
Cutters 671
Racks 849, 1168, 1238, 1307

THREADED RODS
. . . . . 316, 2144-2146, 2172, 2197

THREADERS,
Pipe . . . 872-873, 2262, 2265, 2268-2269, 2272
Stand Pipe 872-873

THREADING
Cutters 2305
Die Stocks 2262, 2265, 2276
Dies 872-873, 2262, 2265, 2276
Drive Adapters 873
Handles 873
Oils 873, 2351, 2457-2460
Support Arms 873

THREADLOCKERS 905, 2222, 2224

THREE-PHASE
Converters 209
Gearmotors 74-77, 79-80
Monitors 3031
Motors 11, 14-15, 17-25, 29-31, 33-35, 54-55, 58, 60, 64
Transformers 207-208

THREE-RING BINDERS 1361, 1382

THRESHOLDS 1124, 2002

THROTTLE CONTROLS 2574-2575

THROUGH-THE-WALL
Furnaces 3085, 3088
Heat/Cool Units 2992-2993
Heat Pumps 2992-2993

THRUST
Bearings 142
Washers 142

THUMBSCREWS 2102, 2318

THUMBTACKS 1359

TICKET HOLDERS 1383

TIE-DOWN
Anchors 961, 1103, 1105-1107
Chains 1107
Cords 1084, 1095-1097, 1102, 1410
Elements 2551
Packages 2551
Strap Brackets 961, 1106
Straps 1102-1106

TIE-ROD
Cylinders 2478, 2480, 2537, 2539-2541
Pullers 916

TIES,
Bag 1407
Bale 1094
Beam 1228
Cable/Wire 317, 400, 408-411, 1094, 1393, 2535
Zip 408-411, 2535

TIG
Kits 2419-2420
Rods 2419
Torches 2419-2420
Welders/Generators 2416, 2418, 2421

TIGHTENER SHAFTS 120

TIGHTENERS,
Tire Chain 957

TILE
Adhesives 891, 2217, 2229-2230, 2232-2233
Brushes 891, 1545
Caulk 2230-2233
Cleaners 1503-1504, 1513, 1519-1522, 1549, 1578, 2446
Cutters 717, 891
Drill Bits 709, 711, 2169
Nippers 891
Pliers 891
Pullers 1065
Saws/Blades 717, 727, 891
Trowels 891

TILES,
Ceiling 1889, 2763

TILLERS 1008

TILT
Truck Lids 1159
Trucks 1159

TILTING
Chairs 1336
Ergonomic Work Stands 1169, 1181
Mobile Lifters 1178, 1181

TIMBER SCREWS 2110

TIME
Indicators 228, 421, 582
Recorders 1375
Sensitive Badges 1970

TIME CLOCK
Card Racks 1375
Cards 1375
Ribbons 1375

TIME CLOCKS 1375

TIME DELAY
Contact Blocks 169-170, 172
Relays 222-223, 3031, 3035
Sequencers 3035

TIME DOMAIN REFLECTOMETERS 554

TIMER
Controls 169, 172, 218, 222-223, 228, 415-420, 1978, 3079
Faceplates 415, 421
Mechanisms 417
Motors 417
Relay Modules 222, 415
Switches 223, 415-421, 2949, 3018
Trippers 417

TIMERS,
14-Day 418
24-Hour 415-421, 3018
7-Day 415-421
Air Conditioner 416
All-Season 420
Appliance 419-421
Astronomical 415-416
Bypass 3031
Circulator 2658-2659
Contactor 169-170, 172
Control Center 418
Cycle 418
Defrost 3018
Digital 223, 225-228, 415-416, 418-421, 582, 586, 1455
Electromechanical 228, 416-421, 3018
Electronic . . . 169, 226-228, 415-421, 582, 2764
Enclosed 223, 415-421, 3018
Fan 416, 419-420
HVAC 415-419, 421
Indoor/Outdoor 416-421, 3018
Interval 222-223, 421, 1978
Irrigation 418, 2764
Kitchen 586
Lighting 415-416, 418-421
Mechanical 417-418, 420-421, 2949, 3018
Multifunction 223
Multioperational 415-417
Multiple Day 415-419, 421, 3018
On/Off Delay 169-170, 172, 218, 222-223
Panel-Mount 172, 218, 223, 225-226, 228, 418, 420-421
Percentage Cycle 418
Pneumatic 218
Programmable 223, 225-226, 415-421, 2764, 3018
Pump 416, 418, 421, 2658-2659
Relay-Type 169, 172, 218, 222-223, 421
Repeat Cycle 222-223, 1978
Residential 419-420, 3018
Security 419, 421
Solid-State 222-223
Spring-Wound 420
Sprinkler 418, 2764
Stopwatch 582

Swimming Pool 418, 421
Wall Switch 418-420
Watchdog 222-223
Water 416, 418, 2658-2659, 2764
Water-Resistant 420, 582
Yearly 415-416, 421

TIMING
Belts 106-107
Centers 418
Lights 920

TIN
Snips 816, 861
Solder 239, 2618

TINNERS,
Tip 232

TIP
Cleaners, Welding and Soldering 232, 2428, 2431
Tinners 232

TIPS,
Abrasive Blast Cabinet 2402
Acetylene Torch 2430-2431, 2433-2434, 2436-2437
Air Fuel 2431, 2434, 2436-2437
Air Gun 2515
Airless Spray Gun 1625, 1627-1629
Bailer 633
Brazing Torch 2431, 2433, 2436-2437
Concrete Mix 2172
Contact 2414
Cutting 2423, 2430-2431, 2433-2434, 2436
Desoldering 234, 236
Floor Protection 1342
Furniture Leg 1342
Gouging 2423
Hammer 828
Heating Torch 234, 2433-2434
Ink Brush 1403
Leak Detector 3008
Plasma Cutter 2423
Propane Torch 2433-2434, 2436
Soldering 232, 234-238, 2431, 2436-2437
Spot Welder 2416
Static Pressure 571
Stencil Fountain Brush 1403
Torch 2423, 2430-2431, 2433-2434, 2436-2437
Welding 2414, 2416, 2423, 2431, 2433-2434, 2436-2437

TIRE
Balancers 952
Balancing Beads 952
Balancing Weights 952
Bead-Breaking Tools 953-954
Bead Seaters 953
Chain Tighteners 957
Chains 957
Changers 952
Cleaners 909-910, 1508, 2446
Covers 948
Demounting Tools 953-954
Gauges 954-956, 962, 2518
Inflation Cages 955
Inflator Fittings 2518-2519
Inflator Gauges 685, 955-956, 962, 2518
Inflators 685, 955-956, 962, 2518
Inner Tubes 957, 1000, 1219
Irons 954
Knockers 954
Leak Detectors 953-954
Mounting Lubricants 953
Mounting Tools 953-954
Patch Cement 953, 955
Patches 955
Pressure Monitors 955
Protectants 909-910, 953
Pumps 685, 955
Racks 1240
Reamers 955
Service Supplies 909-910, 952-955, 957
Service Tools 685, 952-957, 962, 2518
Spoons 954
Stitchers 954
Stops 1130, 1173
Traction Mats 957
Valve Adapters 954
Valve Caps 954-955
Valve Cores 954-955
Valve Extensions 954
Valves 954

TIRES,
ATV & Golf Cart 957
Hand Truck 1219-1220
Industrial 1219-1220
Lawn and Garden 957, 988, 1219-1220
Pneumatic 957, 1219-1220
Semi-Pneumatic 1219
Trailer 957
Wheelbarrow 957, 1000, 1219-1220

TISSUE CULTURE SUPPLIES 663

TISSUE DISPENSERS 1488, 1494

TISSUES,
Door Handle 1494
Facial 1488
Lens Cleaning 1666
Toilet 1488-1489

TITRANTS 634

TOASTERS 1459

TOE
Boards 1789
Caps 1746
Guards 1746, 1757
Jacks 942, 1193

TOGGLE
Bolts 2165, 2168
Clamps 834, 2319-2320, 2541
Switch Boots 260, 262
Switch Plates 262, 304, 308-309, 328
Switches 165, 167, 245, 250, 259-262, 329-330, 333, 465-467, 2929
Valves 2546-2548

TOGGLES,
Fan 2949

TOILET
Bolts & Bolt Caps 2757
Bowl Blocks/Clips 1505
Bowl Brush Caddies 1543
Bowl Cleaners 1504, 1513, 1519-1520, 1522-1523, 1549
Bowls 2755-2756
Brushes 1543
Connectors 2718
Drain Cleaners 863
Fill Valves 2756-2757
Flappers 2756-2757
Flushometers 2751-2754, 2760-2761
Gaskets 2756-2757
Installation Systems 2624-2625
Paint Protectors 1623
Paper & Paper Dispensers 1488-1489, 2760-2761
Paper Spindles 1488-1489
Plungers 745, 2751
Pressure Assist Replacement Parts 2756
Repair Parts 2754, 2756-2757
Replacement Parts 2752-2754, 2756-2757, 2761
Seals 2757
Seat Covers & Seat Cover Dispensers 1494
Seats 2758
Stall Components 2761-2762
Supports 2751
Tanks 2755-2756
Tissue Spindles 1488-1489
Valves 2751-2754, 2756-2757, 2760-2761
Wax Rings 2757

TOILETS 2755-2756, 2760

TONE
Generators 362-366, 1885
Testers 363-364

TONGS,
Chain 867
Cooking 1454
Disconnect 2806
Masonry 892
Skidding 1007
Spot Welder 2416

TONGUE-AND-GROOVE PLIERS 758, 765, 839-840, 848, 854-855, 859, 861, 863

TONGUE DEPRESSORS 1830, 1832

TOOL
Aprons 755, 757, 858
Bags 548, 744, 754-757, 848
Balancers 1320-1321
Belts 755, 757, 859, 1798
Blackening Kits 2185
Blanks 2253
Carriers 745-746, 754-755, 1798
Cart Lockers 745
Carts 743-745, 886, 998, 1147-1154, 1169-1170, 1330, 1446, 2313
Cases 747, 755-756, 811, 814, 846, 859, 1302, 1304, 2586, 2800
Coatings 2185
Containers 747, 994, 1296, 1303-1304
Control Foam 745
Cords 400
Hooks & Hangers 1329, 1331-1332, 2516
Lanyards 858-860, 1796-1798
Lifting Buckets 859
Lockers 742, 745
Loops 858-859
Motors 36
Oils 2456
Organizers 744-746, 754-757, 858-859, 886, 998, 1280, 1282-1285, 1287-1291, 1306, 1320-1321, 1329-1332, 1525-1526
Packs, Multimeter 536-537
Pouches 754-757, 858-859, 1795
Racks 998, 1330, 2313
Retractors 1966, 2514
Rolls 755, 854
Stands 886
Storage 741-750, 753, 945, 1149, 1169-1170, 1263-1270, 1273, 1275-1278, 1304, 1307, 1319, 1325-1326
Tethers 858-860
Tray Brackets 1547
Trays 744, 746-747, 824, 830, 917, 1044, 1176
Trolley Stools 945, 1333
Trolleys 945, 1321, 1333
Trucks 746, 1170
Wrap 2185

TOOL BITS,
Carbide 2305-2306
Lathe 2301, 2303-2306

TOOL BOX
Casters 1214
Dollies 746

TOOL BOXES,
Aluminum 750-751, 753
Lockout 1948-1949, 1953
Pipe Threader 873
Plastic 745-747, 1303-1304
Steel 741-746, 748-751, 753

TOOL SETS,
Air 2503
Bolt Cutter 817
Deburring 2401
Drain Cleaner 865
Electrician's 365, 711, 839, 846, 848, 854, 856-857, 861
Electronics 802-804, 839, 846
Engineer's 744-745
Gage 2336, 2338-2339
General Purpose 744-745, 758, 814
Insulated 854, 856-857, 861
Journeyman 848
Masonry 892
Master 744-745, 758, 760, 854
Measuring 2330, 2333
Mechanic's 758-759, 762, 765, 776, 795, 801, 860, 912, 916-917, 919
Metric 758, 854
Miniature 802
Nonmagnetic/Nonsparking 861
Parallel 2329
Pliers 758, 838-839, 843-844, 846, 848, 854, 861
Plumber's 758, 2751
Pneumatic 2503
Precision 802-803, 2330, 2333
Sheet Metal 816
Snips 816
Starter 816
Telecommunication 364-365
Wrench 758, 787, 790, 795, 797, 839, 854, 859, 861, 867, 871, 917, 2994

TOOLHOLDER
Attachments 858-860
Nuts 2313
Retention Knobs 2313
Wrenches 2313

TOOLHOLDERS,
Boring 2346
Boring Head 2346
Cat V-Flange 2311
Collet Chuck 2311, 2346
Cut-Off 729
End Mill 2311
Face Mill 2311
Insert 2305
Lathe 2305
Metal-Cutting 2305
Milling 2346
Parting and Grooving 2305
Shell Mill 2311
Shrink-Fit 2310-2311

TOOLMAKER'S
Dyes 2427
Tweezers 844
Vises 2346

TOOLROOM WHEELS 2383

TOOLS,
Air Line Assembly 2586
Automotive (See Automotive)
Camrail Installation 2073
Conveyor Belt Lacing 1115
Cut-Off 667, 674, 677, 681, 683, 687-688, 695, 721-722, 724, 729, 2508, 2511, 2586
Deburring Gauge 2806
Epoxy Injection 2219
Extraction 1578, 2260
Faucet 2748, 2750-2751
Folding 816, 1006
Grout Removal 687, 695, 724, 891
Hygienic 862, 1456-1457
Indicator Beacon 279
Laser Alignment 96
Multifunction . . . 683, 687, 695, 724, 814, 2751
Nonmagnetic 825, 828, 861-863, 887, 1140, 1457, 1547
Nonsparking 798, 825, 827-828, 861-863, 887-888, 997-998, 1140, 1457, 1546-1547
Oscillating 669, 687, 691, 724
Powder-Actuated 2169
Refrigerant Recovery 3010
Rivet . . . 303, 684, 2135-2136, 2505-2506, 2513
Strapping 817, 1419-1424
Swaging 868, 1089, 3010
Tapping . . . 802, 2262, 2265, 2275, 2313, 2315
Thread Insert 2136-2138, 2143, 2505
Thread Repair 2137-2138
Tire Removing 953-954
Wallpaper 889, 1622

Wheel Weight 954
Wire Wrap and Unwrap 407
Wood Carving 821-822

TOOTH BELTS 106-107

TOOTHPICKS 814

TOP SHEETING, PALLET 1416

TOPS,
Ice Bin 3003
Locker 1254, 1256, 1262
Workbench 1316, 1325

TORCH
Accessories 2422-2423, 2430-2431, 2433-2434
Check Valves 2435
Tips . . . 2423, 2430-2431, 2433-2434, 2436-2437

TORCHES,
Acetylene 2430-2431, 2433-2434, 2436-2437
Air Fuel 2431, 2433-2434, 2436-2437
Arc Gouging 2422
Blow 1003, 2430-2431, 2433-2434, 2436-2437
Brazing 233-234, 2430-2431, 2436-2437
Butane-Powered 233-234, 2434
Cutting 2423, 2430-2431, 2433-2434, 2436
Heat-Shrink 233-234, 739, 1003, 2436
LP 1003, 2430, 2436
MAPP Gas 1003, 2433, 2436
Micro Maintenance 2431
Microtorch 233-234, 2436
Oxy-Fuel 2430-2431, 2433-2434, 2436
Plasma Cutter 2423
Plumber's 1003, 2430-2431, 2436-2437
Propane Gas . . . 1003, 2430, 2433-2434, 2436
Self-Igniting 233, 1003, 2436
Soldering 233-234, 2430-2431, 2436-2437
TIG 2419-2420
Weed-Burning 1003
Welding 2419-2420, 2423, 2430-2431, 2433, 2436-2437

TORPEDO
Heaters 3083-3084
Levels 848, 882-883

TORQUE
Adapters 762, 769
Arms 85
Arrestors 2656
Guides 2054
Limiters 153
Meters 568
Multipliers 786
Screwdrivers 672, 682, 686, 692, 696, 786, 856, 2504
Wrench Heads 769, 785
Wrench Release Tools 783
Wrenches 769, 782-785, 859, 871, 2472, 2503, 3010

TORSION SPRINGS 2158-2159

TORX
Female Sockets 767, 773
Key Sets 805-806
Screwdriver Bits 698-700, 702-703, 767, 801-803, 857
Screwdrivers 798-803, 854, 856-857
Socket Bits . . . 758-759, 767, 773, 775-776, 802

TOTALIZERS 226, 567, 2680

TOTE
Box Dividers 1294
Box Dollies . . . 746, 1192, 1287, 1292-1293, 1300
Box Levelers 1181
Box Lids . . . 1292-1295, 1297, 1301, 1456-1457
Boxes 994, 1282, 1284, 1286, 1292-1298, 1304, 1456
Tool Trays 756

TOTES,
Clear 1296
Heavy-Duty 1292-1298
Nesting 1286, 1292-1295, 1297, 1457
Plastic 754, 756, 994, 1286, 1292-1298, 1300-1301, 1304
Stacking 1292-1298, 1300, 1457
Tool 548, 744, 754, 756-757, 848
Wire Reel 1167

TOUCH-UP PAINTS
. . . . . 191, 906-907, 1606, 1609, 2763

TOURNIQUETS 1831, 1835

TOW
Cables 1084
Chains & Chain Connectors 958, 1107
Couplings 958-959
Hitch Receiver Eyelets 958-959
Hitch Receiver Locks 961
Hitches 959
Hooks 961
Ropes 1084
Sprayers 1002
Spreaders 996
Straps 965, 1084, 1106

TOWEL
Bars 2760
Dispensers 1443-1444, 1485-1488, 1492
Hooks 2019-2020, 2760-2762
Rings 2760
Shelves 2760-2761

TOWELETTES,
Disinfectant 1510, 1512, 1514, 1829, 1833
Insect Repellent 1022, 1829

TOWELS,
Cloth 1472-1473, 1490-1492, 1537
Cooling 1641
Degreaser 1500
Disposable Shop 1490-1492
Folded 1487-1488, 1490-1491, 1494
Hand/Bath 1472, 1487-1488, 1492, 2446
Kitchen 1491
Microfiber 911, 1535
Paper 661, 1485-1488, 1491-1492, 1494
Pool/Spa 1473
Roll 1485-1487, 1490-1492
Shop 1490-1492
Terry 1472-1473, 1492
Whiteboard 1367
Workplace 661, 1490-1492, 1494, 1514

TOWER
Fans 2923
Light Assemblies 279-280, 1887
Light Tiers 279-280, 1887
Sounders 279-280, 1887

TOWERS,
Storage 2313

TRACERS,
Cable 362-366, 564-565
Circuit 362-364, 547, 564-565, 921
Current/Voltage 547, 564, 921
Wire 362-365, 547, 564-565

TRACK
Brackets 318
Hangers 318
Lighting Accessories 430
Roller Rails 1245
Rollers 139

TRACK SAW BLADES 735

TRACK SAWS 666

TRACKBALLS,
Computer 1354

TRACKING DEVICES 666, 675

TRACKS,
Box 1093
Festoon System 1093
Lighting Fixture Mounting 430
Shelf 1476
Tie-Down 1105-1107
Wall Curtain 1121

TRACTION DEVICES 1747

TRACTOR LIGHTS 968

TRAFFIC
Barricades 1908-1912
Bumps 1131
Channelizer Drums 1910
Channelizer Panels 1910
Cones 1911-1912
Doors 1120-1122, 1451
Fences 1010
Paints 1604, 1611-1612, 1634
Pennants 1907
Posts 1910, 1912
Signs 1131, 1527, 1911, 1915, 1917-1918
Ticket Holders 1382
Triangles 965, 1905
Vests 965, 1724-1725, 1905

TRAILER
Access Ladders 1044
Anchors 961, 1105-1107
Blocks 1130, 1173
Bumpers 1129
Cables 961
Circuit Protectors 961
Connector Plugs 961
Cords 961
Couplings 959, 961
Jack Foot and Pin Kits 942, 960
Jack Pin and Chain Kits 960
Lights 978
Locks 961
Ramps 944, 1127
Seals 963
Stabilizer Jacks 960, 1126
Tailgate Assists 961
Tires 957
Wiring Adapters 961

TRAILER HITCH
Balls & Ball Mounts 958-959
Clips 958
Drawbars 958-959
Locks 958, 961
Lunette Eyes 958
Pins 958-959, 961, 2152
Pintle Hook Mounts 958
Pintle Hooks 958-959
Receiver Box Adapters 958, 961
Receiver Extensions 959
Safety Cables/Chains 958, 1107
Steps 958
Wires & Connectors 961

TRAILER HITCHES 951, 958-959, 1000

TRAILERS,
Box 1158
Landscaper 1158
Utility Cart 1158

TRAINING
Software 1943
Systems and Services 1943-1944
Tables 1339-1340

TRAINING MATERIALS,
Aerial Work Platform 1032
Arc Flash/Electricity 1943, 2054
Automotive/Driver 1943
Back Safety/Ergonomics 1943
Carpentry/Construction 1943
Chemical/Hazmat 1943
Employee Development 1943
Equipment/Tool Safety 1943
Fall Safety 1943
Fire Safety 1943
First Aid/Medical 1943
Investigation 1943
Lockout/Tagout 1943
Machine Safety 1943
Material Handling Safety 1943
OSHA Regulation 1941, 1943
Personal Protection Equipment 1943
Safety 963, 1032, 1709, 1773, 1775, 1940-1944
Security 1943
Spanish 1941, 1943
Spill Control 1943
Thermal Imager 606
Warehouse Safety 1943
Welding 1943
Workplace Safety 1943

TRAMMEL SETS 884

TRANSDUCER ACCESSORIES 580

TRANSDUCERS,
Doppler 2686
Electronic Pneumatic 3041
Pressure 290, 570, 574, 580, 3017, 3031, 3046
Vacuum 580

TRANSFER
Chairs 1822
Pipettes 658
Punches 821-822
Tape 1394

TRANSFORMER
Cooling Fan Motors 58
Cooling Fans 2925
Fuses 177-185
Relays 3035, 3075
Testers 555

TRANSFORMERS,
Buck/Boost 207
Control 160, 205-207, 3033
Current 205, 560
Dry-Type 206-208
General Purpose 205-208, 3033
Harmonic Mitigating 207
Heater 3075
HVAC 205, 3033, 3036, 3045, 3075
Ignition 3036
Isolation 206-208
Low-Voltage 205, 3033
Machine Tool 206
Oil Burner 3036
Outdoor 205, 207-208
Pool Light 2639
Public Address 2040
Single-Phase 205-207
Speaker 2040
Three-Phase 207-208

TRANSIT LEVELS 881

TRANSITIONS,
Duct 2921, 2949

TRANSMISSION
Fluid Funnels 930
Fluid Guns 936
Fluid Pumps 936, 2672, 2674, 2677
Fluid Storage Components 931
Fluids 897-898
Jacks 942
Tools 916-917, 931, 946

TRANSMITTER DISPLAYS
. . . . . 580, 2679, 2681, 3046

TRANSMITTERS,
Door/Gate Opener 1125, 1969, 1978
Flowmeter 555, 2683, 2686
Level 581, 2681
Line 565
Pipe Locator 565
Pressure 290, 570, 574, 580, 3017, 3046
Radio-Frequency 1125, 1375

Temperature 600, 3040
Vacuum 580
Wireless Data. 600, 2328

TRANSOMS,
Wire Partition. 1314

TRANSPARENT TAPE . . . . .1357, 1386, 1389, ...1391-1392, 1394-1395, 1397

TRANSPONDER DUPLICATORS 1964

TRAPS,
Animal 1017-1018
Drain 2722, 2724, 2732, 2808-2809, 2821
Grease 2732
Insect. 1017, 1021-1023
Sink 2722, 2724
Steam 2901-2903, 3038
Tape. 860

TRASH
Bags. 950, 1000, 1559-1562
Container Accessories 1552-1556, 1562
Containers 950, 1485, 1552-1558
Hoppers 1158
Pickers. 1551
Pumps 2623, 2627, 2631-2633, 2646
Trucks 1158-1161, 1456

TRAUMA BAGS 1820, 1835

TRAY CABLES 344, 348-350

TRAYS,
Air Cleaner Media 3059
Assembly 1293
Blast Cabinet 2402
Cable 307
Café 1445, 1456
Conveyor 1293
Desk. 1358
Disposable Food Service 1436
Drip 931, 1857, 1861, 1869, 1875
ESD Safe 1293
Food. 1436, 1443, 1445, 1456
Keyboard 1321, 1343
Laboratory 1251, 1857
Letter 1358
Magnetic 824, 830, 917
Organizer 1358, 1444
Paint 907, 1621
Paper 1358, 1436
Silverware 1444
Spill Containment . . . . . .931, 1251, 1857, ... 1864, 1869, 1875
Static-Dissipative 1293
Stock Truck 1293
Tool . . . . . 744, 746-747, 824, 830, ... 917, 1044, 1176
Utility 1251, 1857

TREAD PLATES 2183, 2186

TREADLE VALVES 2546, 2548

TREADMILLS 1477

TREADS,
Stair 1047, 1900-1901, 1903, 2193, 2196

TREE
Fertilizers. 1003
Grates 1003
Marking Paints. 1610
Protectors 1003
Waterers 1012, 2764

TRENCH
Shovels 998
Tampers. 1009

TRIANGLES,
Reflective. 965, 1905

TRICYCLES,
Industrial 1126

TRIGGER
Spray Bottles 1520, 1522, 1525, 1550
Sprayers 1525, 1550, 2743

TRIGGERS,
Aerosol Can 1611

TRIM
Clamps. 191
Plates. 1885, 2052, 2722-2723, 2748, 2750
Protectors 1998
Rings, Air Conditioner 2997
Rings, Electrical Box 311-312

TRIM KITS,
Ceiling Heater 3075
Safety Mat 278

TRIM,
Recessed Lighting 429-430
Vinyl Edge 2206

TRIMMERS,
Carpet 891
Field. 987
Gasoline-Powered 987, 1004
Hedge 1004, 1006
Laminate 729, 731, 891
Line 987
Paper 1381

TRIPLET MAGNIFIERS 2340-2341

TRIPOD
Adapters 612
Bags/Cases 2038
Infrared Camera Holders 614
Ladders 1028

TRIPODS,
Confined Space 1787
Conveyor Support 1113
Laser Level 881
Optical Level 881, 2041

TRIPPERS,
Timer 417

TRIPS,
Circuit Breaker. 198-199
Coil. 198

TROFFER
Fixture Retrofits. 432
Fixtures 431-435, 437, 439

TROLLEYS,
Festoon 1092-1093
Hoist 1051-1052, 1057, 1060
I-Beam. 1057, 1060-1061, 1792
Pegboard 998, 1330

TROUBLE LIGHT CORD REELS
. . . . . 396-397, 522

TROUBLE LIGHTS 396-397, 516, 522

TROUGHS,
Wire 293

TROWELS 862, 889, 891-892, 1008

TRUCK
Access Ladders 1044
Anchors 961, 1105-1107
Battery Chargers 926
Bed Liners 907
Box Brackets 753
Boxes. 750-753, 1304
Bumpers 1129
Casters. 1195-1213
Cleaners. 908-910, 922
Cranes 1064
Hoses. 918, 947, 2607
Lids 1159-1160, 1457
Ramps 944, 1127
Risers, Aluminum. 1128
Risers, Steel. 944
Ropes. 1096, 2656
Seals 963
Service Jacks 940-942
Shelves 1248
Stabilizer Jacks 941, 960, 1126
Steps 959
Stops 1130, 1173
Storage Units 750-753
Tire Gauges 955-956
Tire Knockers. 954
Undercoatings 907
Wash Brushes 908, 1543
Washes 908, 910
Wheels. 1220

TRUCKS,
2-Wheel . . . . . 849, 1003, 1143, 1158-1159, ... 1167, 1184-1190
4-Wheel . . . . . .1143, 1146, 1151, 1157, ...1161-1166, 1168, 1185-1189, 1341
A-Frame. 1168
Appliance. 1185, 1189
Bag 1190
Bar Storage 849, 1168
Barrel. 1142-1143, 1146, 1188, 1190
Basket 1162, 1172
Big Wheel. 1158-1159
Book. 1349
Box. 1161-1162
Canvas 1162
Chair 1168, 1190, 1340-1341
Cube 1160-1162
Cylinder 1003, 1187
Desk. 1192
Drum 1142-1143, 1146, 1188, 1190
Dump. 1158-1159, 1456
Electric. 1175, 1179, 1186
Hand . . . . 1003, 1142-1143, 1146, 1150-1151, ...1157, 1159, 1161-1168, ... 1171, 1184-1190, 1341
Hand Pallet 1173-1174
Hydraulic . . .1173-1174, 1179-1180, 1183, 1187
Laundry 1160-1162, 1172
Luggage. 1186
Mailroom 1160-1162, 1172
Manual-Lift Hand. 1189
Medical Oxygen 1187
Modular Drawer. 1170
Order Picker. . . . 1150-1151, 1154, 1157, 1161
Pallet 1173-1175, 1178-1181
Pan. 1448
Panel 1168
Pipe 849, 1168
Platform. . . . . 1151, 1163-1167, 1171, ... 1185-1186, 1341
Recycling. 1159-1160, 1162, 1172
Scrap. 1158-1159
Security 1157, 1161-1162, 1172, 1824
Self-Propelled . . .1173-1175, 1179-1180, 1186
Shop 743, 1150-1154, 1170
Stock 1150-1151, 1157, 1161-1166
Stock Picker. . . . 1150-1151, 1154, 1157, 1161
Tilt 1159
Tool 746, 1170
Towable 1159, 1161
Tray 1448
U-Boat 1151, 1163-1165
Utility . . . . . .743, 1150-1154, ... 1157-1165, 1170, 1186
Vending Machine 1189
Vinyl. 1160, 1162, 1172
Wagon 1167
Warehouse. . . . . .1150-1151, 1157, 1159, . . .1163-1167, 1171, 1184-1186, 1188, 1190
Waste. 1158-1161
Welding Cylinder 1003, 1188
Wire 849, 1157, 1161-1162, 1171

TTY DISPLAYS 2036

TUB
Caulk 2230, 2232
Dollies 1192, 1287, 1292-1293
Faucets 2745-2746, 2748
Lids 1292-1294, 1297, 1457
Racks. 1297
Seats 2746
Valves 2745

TUBE
Ends. 1224
Notchers 2356
Racks. 650

TUBES,
Aluminum 2183
Appliance. 482
Centrifuge 650, 657
Detector. 1779, 1782, 2051, 3029
Drum Pump Replacement 2675
Drum Sight. 1140
Fiberglass 2197
Fluorescent 482-485, 3059, 3061
Gas Detector 1779, 1782
Laboratory Evaporator. 635
Mounting 279
Oil Skimmer. 2462
Pitot 572
Plastic 2197, 2213
Respirator Fit Test 1775
Sampling 1780, 2051, 3029
Stainless Steel. 2190
Steel 2186
Test 650, 657
Tire Inner 957, 1000, 1219
Ultraviolet 1021, 3059, 3061
Ventilation Smoke 1780, 2051, 3029
Welding Tip 2433

TUBING
Benders 868, 2356, 3010
Brushes . . . . . 871, 1544-1545, 1547, 2398, ... 2400, 2618, 2751, 3095
Clamps. . . . . 319, 2055, 2078, 2531-2535, ...2612, 2825-2828, 2830-2831
Clips. 2618, 2764, 2807
Cutter Replacement Parts 869-870
Cutters . . .305, 684, 869-871, 1406, 2618, 3010
Dispensers. 1408
Expanders 671, 678, 684, 868, 3010
Gaskets 2789, 2801, 2853
Heater Reflectors. 3087
Locknuts 407
Mounts. . . . . 319-320, 2586, 2796, ... 2826-2828, 2830-2831
Racks. 849, 1238, 1408
Reamers 871
Stakes 2764
Straps . . . 316, 319-320, 2796, 2827-2828, 2837
Supports . . . . . 319-320, 407, 2618, 2796, ...2807, 2825-2828, 2830-2831, 2854
Tools . . .305, 868-871, 2356, 2586, 2618, 3010
Washers. 3011-3013

TUBING FITTING CADDIES 2751

TUBING FITTINGS,
Acetal Compression. 2854
Acetal Push-to-Connect. 2849-2850
Aluminum 2586
Brass . . . . . 962, 2530, 2556-2558, 2586, ... 2764, 2805-2807, 2849-2856, ... 2859-2860, 3006, 3015, 3017, 3094
Brass Compression . . . . . .962, 2764, ... 2853-2856, 2859-2860
Brass Flare. . . . . .2853-2855, 2859, 3006, ... 3015, 3017, 3094
Brass Instrumentation 2859-2860
Brass Push-to-Connect . . . . . 962, 2556-2558, ... 2806-2807, 2850-2852
Bronze Press 2798, 2802
Carbon Steel Compression 2804
Carbon Steel Instrumentation 2804
Cast Copper 2798-2800
Copper 2801-2802, 2805, 2842, 2853, 3015
Instrumentation 2804, 2857-2860
Nickel-Plated Brass Push-to-Connect 2556-2558, 2850-2852
Nylon 407, 2556-2557
PFA Compression. 2856
Plastic . . . . . 407, 2554-2557, 2636, 2743, ...2764, 2805, 2807, 2821, ... 2849-2850, 2855-2856

Pneumatic 2554-2558
Polybutylene Push-to-Connect 2554-2555
Polyethylene 2807
Polypropylene Barbed 2636
Polypropylene Push-to-Connect . . . 2557, 2850
Polysulfone Push-to-Connect 2807
PVC 2821
Stainless Steel 962, 2487-2488, 2788, 2803, 2805, 2851, 2854, 2857-2859
Steel 2803-2804
Wrot Copper 2795-2798

TUBING,
Air 962, 2586, 2610-2612, 2615
Air Brake 962
Air Conditioner 2847, 3006, 3017, 3094
Aluminum 2183, 2849
Antimicrobial 1594, 2606, 2615
Braided 406, 1594, 2614, 2616, 2718
Capillary 3017
Car Wash 2613-2615
Carbon Steel 2186
Chemical 2613-2618
Cold-Shrink 376, 378
Copper 2847, 3094
Disposer 2732
Fiberglass 406
Flame-Retardant 376, 378, 2616
Fluoropolymer 2617
Foam 2198
Food-Grade 378, 1408, 2213, 2611, 2613-2618
Food Service Polybag 1408
Heat-Shrink . . . 372, 376-378, 1378, 1418, 2656
Helical Wire Reinforced 2613-2614
Insulation 2833-2838
Irrigation 2764
Medical-Grade 378
Norprene 2618, 2688
Nylon 406-407, 962, 2616-2617
Oil Suction 937
PFA Fluoropolymer 2617
Pilot Burner 3034
Plastic 406-407, 1408, 2529, 2606, 2610-2617, 2689, 2764, 2807
Plasticizer-Free 2614
Pneumatic 2586, 2604-2606, 2608, 2610-2612
Polybag 1408
Polyethylene 406-407, 1408, 2617, 2689, 2764, 2807
Polyurethane 2615-2616
PTFE 2617
PVC 2529, 2606, 2609-2610, 2612-2614
Refrigeration 2847, 3006, 3015, 3017, 3094
Respirator 1765, 1768-1772
Rubber 947, 1594, 1629, 2586, 2604-2608, 2610-2612
Santoprene 2689
Seamless Aluminum 2849
Seamless Stainless Steel 2848-2849
Siphon 574
Stainless Steel . . . 2718, 2842-2844, 2848-2849
Suction 937, 2437, 2613, 2675
Thermoplastic Elastomer 2618
Vinyl 2614
Welded Stainless Steel 2848

TUBS,
Bus 1447
Collapsible 1300-1301
Corrugated 1301
Food-Grade 1292
Heavy-Duty 1292-1293, 1297, 1301, 1457
Nesting 1292-1294, 1297, 1457
Plastic 1292-1294, 1297, 1300-1301, 1447, 1457
Stacking . . . 1292-1294, 1297, 1300-1301, 1457
Steel 1301, 1528
Storage 1292-1294, 1297, 1300, 1457

TUGGERS 1175

TUMBLERS,
Beverage 1445

TUNERS,
AM/FM Digital 2040

TUNGSTEN ELECTRODES 2419

TURBINE
Meters 2682-2684
Pumps 2652
Ventilator Bases 2968
Ventilators 2968

TURN SIGNALS 975-978

TURNBUCKLES 1090-1091

TURNING INSERTS 2301-2306

TURNING TOOLS 2305

TURNTABLES,
Abrasive Blast Cabinet 2402

TV
Carts 1353, 2023
Monitors 2050
Mounts 2022-2023
Remote Controls 2022

TVS,
LED 2021-2022

TWEEZERS,
Acid-Resistant 844
Antimagnetic 844
First Aid/Medical 1830-1831
Illuminated 844
Insulated 856
Precision 814, 839, 844
Toolmaker's 844

TWINE 1097

TWIST DRILL BITS (SEE DRILL BITS)

TWIST-TO-LOCK
Connectors 336-340
Inlets 336-338
Latches 336
Plugs 335-340, 342
Receptacles 336-340, 342, 412

TWO-CYCLE
Fuel Antifreeze 900
Oils 895-896, 900

TWO-WAY RADIO
Adapters 2027-2028, 2030, 2032
Antennas 2029-2032
Batteries 2024-2025, 2027-2032
Battery Chargers 2024-2025, 2028-2032
Battery Shells/Covers 2024
Belt Clips 2024, 2029-2032
Cables 350, 2024-2025, 2030-2031
Call Boxes 2034
Cases 2029, 2031-2032
Chargers 2024-2025, 2028-2032
Cloning Cables 2024
Earpieces 2024, 2028-2032
Headsets 2025, 2027-2032
Holsters 2024, 2029, 2031
Microphones 2025, 2027-2032
Mounting Brackets 2029
Power Supplies 2030
Programming Cables 2031
Speakers 2028, 2030
Surveillance Kits 2028-2029, 2031-2032

TWO-WAY RADIOS 2024-2027

U

U-BOLTS 2074-2075, 2831

U-CHANNEL POSTS & POST ANCHORS 1916

U-CHANNELS,
Aluminum 2182
Fiberglass 2197
Plastic 2197, 2209, 2213

U-LOCKS 1961

U.S. FLAGS 1351

UHMW PLASTIC 2212-2213

ULPA (ULTRA-LOW PENETRATION AIR) VACUUM CLEANERS 1572

ULTRASONIC
Cleaners 642
Flowmeter Sensor Accessories 2686
Flowmeters 555, 2686
Level Transmitters 2681
Pest Repellers 1019-1020
Sensors 468-469, 621, 2680-2681
Thickness Gages 569

ULTRAVIOLET
Air Cleaners 3059, 3061, 3093
Bulbs 1021, 3059, 3061
Flashlights 523-524, 531, 2427, 2494, 3009
Lights 1021
Markers 1615
Protectants 910

UMBRELLA
Bags/Bag Holders 1350
Stands/Signs 1350, 1783

UMBRELLAS . . . 1482-1483, 1730, 1783, 2409

UNDERCABINET LIGHTING FIXTURES 440-442

UNDERCOATINGS,
Automotive 907

UNDERCOUNTER
Dishwashers 1464
Ice Machines 3003-3004
Lights 440-441
Refrigerators 637, 1463

UNDERGROUND
Enclosures 299
Feeder Cables 345
Service Locators 565
Sprinkling Equipment 349, 2764

UNDERLAYMENT,
Abrasive Blast Cabinet 2402
Floor 1100

UNION REPLACEMENT PARTS 2846

UNIONS,
Acetal Push-to-Connect 2850
Black Iron Pipe 2770, 2773
Black Steel Pipe 2777, 2780
Brass Barbed 2849
Brass Compression Tubing 962, 2854-2856, 2859
Brass Flare Tubing 2853-2854
Brass Instrumentation Tubing 2859
Brass Pipe 2790-2794, 2842
Brass Push-to-Connect 962, 2558, 2850
Brass Tubing 962, 2558, 2849-2856, 2859
Bronze Tubing 2802
Copper Pipe/Tubing 2796, 2798-2800, 2842, 3015
CPVC Pipe 2812, 2815
Dielectric 2802, 2842
Flare Tubing 2488, 2854
Galvanized Forged Steel 2777
Galvanized Malleable Iron Pipe 2770, 2773
High-Pressure Pipe 2780
Malleable Iron Dielectric 2842
Nickel-Plated Brass Push-to-Connect 2558, 2850-2852
Nylon Push-to-Connect 2557
Nylon Tubing 2557
Plastic Pipe 2812, 2814-2815, 2817
Plastic Tubing 2554, 2557, 2850
Polybutylene Push-to-Connect 2554
Polypropylene Push-to-Connect 2850
PVC Pipe 2812, 2814
PVDF (Polyvinylidene Fluoride) 2817
Rotary 2846
Stainless Steel Compression Tubing 2857-2859
Stainless Steel Flare Tubing 2488, 2854
Stainless Steel Instrumentation Tubing 2857-2859
Stainless Steel Pipe 2782, 2785
Stainless Steel Tubing 2488, 2803, 2851, 2854, 2857-2859
Steel Pipe 2770, 2804, 2842

UNIT HEATER
Brackets 3077-3078
Louvers 3088
Nozzles 3086
Replacement Parts 3077, 3086
Switches 3077
Thermostats 3071-3072, 3077
Vent Caps 3096, 3103

UNIT HEATERS
. . . . . 3075, 3077-3079, 3086, 3088-3089

UNIVERSAL
Couplings 130, 2531
Gearmotors, AC/DC 80
Input Recorders 598
Joints 130, 768-769, 771-772, 775, 777, 779, 781
Motors, AC/DC 36
Remote Controls 2022
Socket Joints 768-769, 771-772, 775-777, 779-781
Sockets 763, 765, 768-781

UPHOLSTERY
Cleaners 910, 1517, 1519, 1578
Detergents 1517
Preservatives 910
Staplers 2500

UPS (UNINTERRUPTIBLE POWER SUPPLY)
Accessories 209, 213-214
Systems 213-214

URETHANE
Adhesives 2172, 2216, 2218, 2220-2221, 2229
Applicators 1622
Coatings 1603-1604, 1634
Compounds 1633, 2221, 2226, 2231

URETHANE FOAM,
Sheet 2200

URINAL
Accessories 1505, 2757, 2759
Blocks 1505
Cleaners 2759
Flushometers 2751-2753
Mats 1505
Privacy Partitions 2761-2762
Replacement Parts 2748, 2753-2754, 2757, 2759
Screens 1505, 2757

URINALS 2759-2760

URNS,
Coffee/Beverage 1439
Smoking 1552

USB
Adapters 361
Cables 354, 359, 361, 1928
Chargers 361
Converters 361
Couplings 356
Drives/Cases 1354
Ports 332, 361, 949

UTILITY
Bars 823, 862-863, 953, 999
Boxes 747, 1296, 1302-1304
Brushes 863, 891, 908, 922, 1459, 1543-1548, 2424
Cranes 943
Funnels 930, 1140, 1525, 1860-1861
Hinges 2008, 2011-2014
Hooks 1148, 1329, 1331-1332, 2020
Knife Blades 809-811
Knives 808, 810-814, 891, 1401, 1417
Ladders . . . 1031, 1035-1036, 1047-1048, 1350
Lights 518-521, 680, 967-969, 971
Pulls 2018
Shelves 2729, 2760-2761
Sink Drainboards 2729
Sinks 2725, 2729
Trays 1251, 1857
Trucks 743, 1150-1154, 1157-1165, 1170, 1186
Vehicle Accessories 745
Vehicles 989, 1175
Work Shelters 1783

UTILITY CART
Accessories 744, 1148
Bins 1148, 1281
Casters 1195-1214
Shelves 1156

UTILITY CARTS 743, 1147-1157, 1161-1162, 1169-1170, 1172, 1186, 1446

UV
Air Cleaners 3059, 3061, 3093
Bulbs 1021, 3059, 3061
Flashlights 523-524, 531, 2427, 2494, 3009
Light Meters 625
Markers 1614-1615
Protectants 909-910

V

V-BELT
Dressings 2440
Groove Gauges 105
Pulleys/Sheaves 105, 109-113, 121
Tension Checkers 105

V-BELTS,
Banded 100-102, 104-105, 2567
Classical 97-102, 105
Cogged 97, 99, 103-105
Fractional Horsepower 97
Link 96
Metric 105
Rotary Screw 2567

VACANCY SENSORS 467-468

VACUUM
Base Vises 832-833
Breaker Repair Kits 3038
Breakers 2748, 2903-2904, 2906, 3038
Charging/Core Tools 3010
Conveyor Systems 2583
Cups 1065
Data Loggers 580
Fishing Systems 849
Gauges 570, 573-580, 2591, 3005, 3009
Gun Kits 2518
Hoses 722, 1481, 1576, 2461, 2482, 2607, 2610-2612, 2634-2636
Lifters 1065
Motors 37
Regulators 2585
Relief Valves 2574, 2584, 2895, 2908
Sanders 725, 889, 2510
Switches 290-291, 570, 3046, 3104
Systems 2580
Testers 919
Transducers 580
Transmitters 580
Vents 1140, 2463, 2551

VACUUM CLEANER
Attachments 1564-1565, 1570, 1572, 1575-1576
Bags 990, 1563, 1565-1566, 1568, 1570, 1572, 1574, 1579
Batteries 1569-1570
Battery Chargers 1569-1570
Belts 1568, 1575
Brushes 1565, 1568, 1570, 1572, 1575
Carrying Bags 1573
Detailing Kits 1575
Drums 1573
Filter Bags 1563, 1565-1566, 1568, 1570, 1574, 1576
Filters 990, 1563, 1565-1566, 1568, 1570, 1572, 1576, 1581
Float Shut-Off Balls 1581
Gaskets 1565
Gulper Tools 1575
Handle Kits 1481
Hanging Brackets 1563
Heads 1481, 1565, 1573
Hose Adapters 1565, 1568, 1572, 1575-1576
Hoses 990, 1564-1565, 1572, 1575-1576
Motors 37
Nozzles 1565, 1570, 1572, 1575
Pipe Cleaning Tools 1576
Poles, Pool 1481
Replacement Parts 990, 1564, 1568, 1575-1576
Silencers 1565
Squeegees 1564, 1575
Stands 1563
Switches 260
Tools 1564-1565, 1570, 1572, 1575-1576
Wands 1564-1565, 1570, 1572, 1575
Wet/Dry Tool Kits 1564-1565, 1575

VACUUM CLEANERS,
12-Volt/Automotive 689
Air Gun 2518
Aircraft 1570
Backpack 678, 1570
Biohazard 1572
Canister 1571, 1573
Cleanroom 1564, 1572
Cordless 670, 678, 685, 689, 693, 1563, 1566, 1569-1571, 1573
Critical Filter 1570, 1572
Drum-Mount 1565, 1573
Dry Pickup 689, 1563-1564, 1566, 1568-1573, 1580
ESD-Safe 1565, 1572
Explosionproof 1572
External Filter 1564-1565, 1573
Hand 670, 678, 685, 689, 693, 1563, 1566, 1569-1573, 2518
Hazardous Material 1564, 1570, 1572
HEPA Filter 1564, 1566, 1568-1570, 1572, 1580
Indoor/Outdoor 1564, 1568
Litter 990
Outdoor 988, 990, 1000
Pond 2639
Pool 2639
Pump Vac 1566
Robotic 689
Shop 678, 719, 1563-1567, 1573
Static-Dissipative 1565, 1572
ULPA (Ultra-Low Penetration Air) 1572
Upright 689, 1568-1569
Wet/Dry Pickup 678, 1563-1567
Wet Pickup 719, 1565-1566, 1572-1573

VACUUM PUMP
Filters 2575-2576, 2581
Mufflers 2575
Oils/Solvents 946, 1594, 2455-2457, 2468, 2581, 2585, 3007
Repair Kits 2580

VACUUM PUMPS,
1-Stage 946, 2581
2-Stage 946, 2581, 3007
Air-Operated 2580, 2695
Corrosive Gas 2581
Diaphragm 2578
Electric 2578-2581
Oil-Less 2578-2580
Piston 2579-2580
Pneumatic Test 563
Positive Displacement 2581, 2585
Refrigeration 946, 2582, 3007
Rotary Vane 2578, 2581, 3007

VALVE
Actuators 2547-2548, 3037, 3041, 3043-3045
Adapter Hoses 3006
Adapters 954
Assembly Bolts 2477
Blanking Kits 2542-2544, 2549-2550
Blanking Plates 2542-2544, 2550
Bodies, Cartridge 2475
Boxes 2907
Brackets 2550, 2883
Brushes 1544, 1546-1547
Connectors 2475, 2477, 2542, 2549, 3043, 3045
Core Torque Tools 954
Cores 954-955, 3015
Exercisers 869
Extensions, Tire 954
Isolator Plates 2550
Lockouts 1946-1949, 1952
Low Pressure Kits 2549
Manifold End Plates . . . 2543-2544, 2548, 2550
Manifolds 2424, 2473, 2542-2545, 2549-2550, 2852
Mounts 2477, 2546, 2550
Packing 2820
Powerheads 3037
Quick Disconnects 2717
Sealants 2231-2232
Seals 963, 2699, 3012
Spring Compressors 920
Spring Kits 920
Stacking Kits 2543-2544, 2549
Stem Extensions 2864-2865
Stem Keys 1009, 2751
Stem Packing 2820
Subplates 2477, 2545
Tags 1936

VALVE CAPS,
Refrigeration 3015
Tire 954-955

VALVE REPAIR KITS
. . . . . 2544, 2546, 2587, 2747-2748, 2750, 2892, 2904-2906, 2908-2909, 3010

VALVE REPAIR TOOLS,
Cylinder 920
Pipe Sealing 874
Tire 954

VALVES,
2-Way Flow 2476, 2547, 2870, 3017
Access 3006, 3010, 3015, 3094
Air 2542-2553, 2573-2574, 2586, 2590, 2882, 3042
Air-Actuated 2547, 2572-2573, 2871-2872, 2885, 3043
Air Admittance 2722
Air Cock 2914
Air Gap Drain 2906
Air Release 2908
Air Safety 2553, 2573-2574, 2595, 2601, 2894
Air Tank 2573-2574, 2603, 2894
Airflow Control 2548, 2550-2553, 2871
Angle 2718, 2889, 2911
ASME 2573-2574, 2894
Automatic Flush 2751-2753
Back Pressure 2688
Backflow Preventer 2627, 2656, 2694, 2806, 2850, 2861-2862, 2889, 2898-2900, 2903, 2905-2907
Ball (See Ball Valves)
Ball Roller 2547
Barrel 1140
Bedpan Washer 2751
Blast Cabinet 2402
Body-Ported Solenoid . . . 2542-2545, 2548-2551
Boiler 2889, 2893-2895
Brass Swivel Cylinder 3015
Butterfly 2780, 2789, 2885-2886, 3099
Bypass 869, 2590
Cartridge 2475
Check (See Check Valves)
Combination 3032
Compact 2548-2551, 2869, 3019
Control 2471, 2476-2477, 2542-2545, 2547-2553, 2572-2573, 2743, 3037, 3043
Copper Refrigeration 3010, 3015
Counterbalance 2475
Direct-Acting Solenoid 2549, 2882
Directional Control 2471, 2476-2477, 2542-2551
Diverter 2866, 2871
Drain 2571-2573, 2597, 2730, 2914, 3010
Drain Cock 2914
Drum 1140
Dust 2876
Electro-Pneumatic 3041
Electronic-Actuated 2572-2573, 2870-2872, 2876, 2882
Evaporative Cooler 2911
Exhaust 2547, 2551-2553, 2555, 2863, 2878, 2881
Expansion 3019, 3091
Fire Hose Angle 1818
Fire Protection Butterfly 2780
Float 2477, 2639, 2909-2911
Flow Check 2435, 2574, 2627, 2656, 2694, 2889, 2903, 2907
Flow Control 937, 2471, 2473, 2475-2477, 2548, 2550-2553, 2555, 2861, 2882, 2913
Fluid-Dispensing 937
Flushometer 2751-2753, 2760-2761
Foot 2546, 2548, 2656
Foot-Pedal 1593, 2546, 2548, 2727, 2743-2744
FRL (Filter/Regulator/Lubricator) . . . 2595, 2601
Fuel 2879
Furnace Gas 3032-3034
Garden Hose 1013, 2911-2912
Gas 2879, 3032
Gas Cock 2914
Gate 1140, 2887-2889
Gauge Cock 2913
Globe 2882, 2889, 3043
Grease Gun 934
Ground Plug 2914
Hand-Operated 2461, 2542, 2546-2548
Heat Pump 3092
Hose 1818, 2461, 2491, 2743
Hydraulic 2471, 2475-2477, 2913
Hydronic Heating 3037, 3043
Hydronic Pressure 2895
Hydronic Zone 3037, 3043
Irrigation 2764
Jetter 1593
Knee-Pedal 2727, 2744
Lawn Sprinkler 2764
Limit 2547, 2871
Line-Piercing 3006
Lockout 2553, 2595, 2598, 2601, 2603
Lowering 2473
Lubrication 937, 2461, 2465
Manifold Solenoid 2549
Manual Drain 2571
Manual-Return 2542, 2546-2548
Media 2402
Miniature Air 2547, 2553
Miniature Ball 2553, 2850, 2861
Miniature Solenoid 2549
Mixing 1844, 2727, 2745, 2901, 2908-2909, 3043
Moveable Gas Appliance 2717
Needle (See Needle Valves)
Nylon Lockout 2553
Paint Spray Gun 1626
Paint Sprayer 1628
Palm Button-Actuated 2548
Pedal 2546, 2548, 2727, 2743-2744
Pilot-Actuated 2542-2545, 2547-2548, 2550-2551, 2553, 2574-2575, 2873, 2890, 3017
Piston 2878, 2880-2881

Plug 2861, 2914
Pneumatic-Actuated . . . . . .2542, 2547, 2572, ... 2871-2872, 2885, 3043
Pneumatic Limit. 2547
Pop-Safety. 2571, 2573-2575, 2694, 2894
Poppet 2475-2476, 2574
Prerinse Spray 2740
Pressure-Reducing . . . . . .288, 2475, 2660, ... 2694, 2891-2892, 2908
Pressure-Regulating . . . . . .2553, 2571, ... 2574-2575, 2764, 2889-2893, ... 3010, 3017, 3038
Pressure-Relief . . . . . 287-288, 563, 2471, ... 2475-2476, 2573-2574, 2584, 2603, ... 2688, 2694, 2696, 2893-2895
Push-to-Connect . . . . . .2461, 2552-2553, ... 2555, 2850-2851
PVDF (Polyvinylidene Fluoride) Pipe 2817
Quick Exhaust 2547, 2552-2553, 2555
Radiator. 2911, 2914, 3037
Refrigerant. . . . . .3006, 3010, 3012, 3015, ... 3017, 3019, 3094
Relief . . . . . 287-288, 2471, 2475-2476, ...2573-2574, 2584, 2603, ... 2694, 2696, 2893-2895
Respirator 1769-1770
Reversing. 3092
Roller Cam-Actuated 2548
Rough-In 2745
Saddle 2913
Safety . . . . . 287-288, 2471, 2475-2476, ...2573-2574, 2584, 2603, 2694, ... 2696, 2863, 2893-2895, 3032
Shower 2745
Shuttle 2475, 2547
Sleeve 2547
Soap Dispenser 1496
Solenoid (See Solenoid Valves)
Spray Gun 1626
Spring-Return . . . . . .2542-2551, 2866, ... 2871, 2882, 2885
Sprinkler Control 2764
Stacking. 2548-2550
Stop 2718, 2723, 2744, 2807, 2850
Stop and Waste 2730
Sump Pump 2627
Swing Check 2898-2899
T and P. 2893, 2895
Tempering (See Tempering Valves)
Thermal Relief 2694
Thermostatic . . . . . .1844, 2727, 2745, ... 2908-2909, 3019, 3037
Tire. 954
Toggle 2546-2548
Toilet 2751-2754, 2756-2757, 2760-2761
Torch 2435
Treadle. 2546, 2548
Tub. 2745
Tube to MNPT Shut-Off 2850
Tube Union Shut-Off 2850
Unloader 287-288, 2574-2575, 2694
Urinal 2751-2753
Vacuum Relief 2574, 2584, 2895, 2908
Vent 2661, 2688, 2908
Water Heater 2862, 2893, 2895
Water Pressure 2660, 2890-2895, 3017
Water Shut-Off. . . . . .1013, 2718, 2723, ... 2744, 2807, 2850, 2869-2870
Welding Gas Shut-Off 2430-2431
Zone. 3037, 3043

VAN
Cranes 1064
Storage Boxes 752

VANE ANEMOMETERS . . . 543, 571, 620-621

VANES,
Pump 2672

VAPOR BARRIERS. 1099, 2677

VARIABLE-FREQUENCY DRIVES . . . 153-157

VCI (VOLATILE CORROSION INHIBITOR) PACKAGING SUPPLIES. 1413-1414

VECTOR DRIVES 153-157

VEGETABLE PEELERS. 1452

VEHICLE
Accessory Replacement Plugs 949
Accident Report Kits 963
Alarms 966
Alternator Harnesses. 2055
Backup Lights 977
Battery Boxes 924
Battery Cable Connectors 923-924
Battery Cables 923
Battery Chargers 209, 667, 671, 925-929
Battery Clamps 924
Battery Service Tools. 921-924
Battery Terminals. 924
Beverage Holders 950
Body Repair Materials 905-906, 2055
Body Repair Tools 827-828, 2511-2512
Brake Bleed Kits 919, 931
Cargo Lights. 967-968, 979
Charging Clips 924
Coatings. 907
Covers 948
Dashboard Fans. 950, 2925
Detailing Equipment 908, 911, 1545
Detailing Supplies 908-911, 922
Diagnostic Tools. 920-921, 961
Directional Arrows 975
Document Holders. 950
Dollies 944
Door Hardware. 2055
Driving Lights. 968-970, 975
Emergency Kits 965
Engine Oils. 894-897, 900
Exterior Lights . . . . . 967-969, 971-973, ... 975-977, 1888
Fans. 950, 2925
Fender Covers 948
Flags 950
Floodlights. 493, 967-968
Fog Lights 968
Gates 1128, 1969
Hood Props 916
Inspection Forms/Labels 963
Interior Lights 968, 979
Lamps 493, 497-504, 967-979, 1888
Lifts 943
Light Bars 967, 974-975
Lighting Power Cables. 961
Load Measuring Sticks 950
Marker Lights 976-978
Mirrors. 948, 1913
Mobile Phone Holders 950
Navigation Systems. 949
Oil Evacuators 918, 931, 946
Paints. 906-907, 1606
Pedestal Lights 977
Recovery Straps 965, 1084, 1106
Recovery Winches 1081
Reflectors 978
Rotating Mirror Beacons 278
Safety Kits 965
Seat Belt Pads 950
Seat Covers 948
Service Grease Pumps. 933-934, 2672
Spotlights. 967-969, 971, 975
Stands 941-942, 2466
Starter Fluids. 897
Starting System Testers. 921-922
Stop/Tail/Turn Lights 975-978
Testers 537-538, 626, 918-922, 961, 2462
Tire Pressure Gauges. 955-956
Trash Containers 950
Warning Lights. 967, 972-975, 977, 1888
Warning Sounders 966
Water Cooler Racks 1825-1826
Wheel Clamps 957
Windshield Wipers 947
Wire 350, 929
Wire Connectors 961, 2055
Wiring Harnesses. 2055
Work Lights 967-969, 971

VENDING MACHINES 1494, 1830

VENT
Brackets. 3096
Caps. . . . . .2671, 2722, 2949, 3085, ... 3087, 3096, 3103
Dampers 2938, 2942
Enclosures, Wall Furnace. 3085
Extension Kits 3087
Extensions 3085
Hoods. 2949, 2955, 3103
Kits, Heater 3085-3087
Pipe 3085, 3096
Pipe Hangers 3096
Replacement Parts 2571
Support Plates 3096
Valves 2661, 2688, 2908

VENTILATION
Controls . . . . . .2928, 2944, 2946, 2949, . . .2968, 3023-3025, 3027-3028, 3030, 3034
Kits. 1784-1785
Poles 1007, 1820
Smoke Tubes 1780, 2051, 3029
Temperature Controls . . . . . .2928, 2968, ... 3023-3025, 3028, 3030, 3034

VENTILATOR
Adapters 2945
Base Adapters 2956
Birdscreens 2939
Clean-Out Port Kits 2962
Controls 2944, 2949
Dampers 2938-2939, 2943, 2945
Grease Collector Boxes 2962
Hinge Kits 2962
Replacement Parts 2944
Roof Curbs. 2962-2963
Speed Controls 2944, 2946, 2949

VENTILATORS,
(See Also Air Circulators, Blowers, and Fans)
Attic 2968
Automatic 2968
Axial. 2940, 2961, 2964-2966
Bathroom. 2942-2945, 2947-2948
Belt-Drive. . . . . 2940-2941, 2952-2956, ... 2958-2962, 2964-2966
Cabinet 2944-2945
Ceiling 2942-2945, 2947-2948
Centrifugal. 2952-2960, 2962
Confined Space 1784-1785
Direct-Drive . . . . . .2941, 2952, ... 2954-2957, 2960-2961
Downblast 2957-2961, 2964-2965
Exhaust . . . . . .1785, 2928, 2933, 2941, ... 2943-2945, 2947-2948, ... 2952-2961, 2964-2966
Exhaust/Supply 2931, 2935, 2965
Filtered Supply. 2962
Foundation. 2948
Gable-Mount 2968
High-Pressure 2952-2953
In-Line 2944-2945
Kitchen. . . . . .1465, 2944, 2947-2948, ... 2952-2960, 2962
Power Roof 2952-2962, 2964-2966, 2968
Restroom. 2942-2945, 2947-2948
Reversible 2965
Roof-Mount 2952-2962, 2964-2966, 2968
Smoke Evacuation. 2966
Speed-Controllable . . . 2954-2955, 2957, 2961
Supply 2940-2941, 2961-2962, 2964-2965
Turbine. 2968
Upblast. 2952-2956, 2960, 2966
Wall-Mount . . . . . .2944, 2947-2948, ... 2954-2956, 2961-2962

VENTS,
Air . . . . . .2463-2464, 2551, 2722, 2901, ... 2908, 3037, 3087, 3102
Automatic 2908
Drum Safety. 1140
Exhaust 1624, 2965
Expansion Tank Air. 2661
Filter 2463-2464, 2551, 3102
Furnace 3096
Gas Appliance 2715, 3096
Gearbox 2464
Gravity 2965
Heater 3086-3087
Hot Water. 2908
Hydronic Radiator 3037
Manhole. 1784-1785
Petrochemical 1783
Pressure-Relief 1140, 2463-2464, 2551
Protected Path. 2464
Radiator 3037
Roof. 2965
Saddle 1784-1785
Spray Booth 1624
Steam Convector 3037
Steam Radiator 3037
Supply 2965
Tank. 2661
Type B Gas. 3096
Vacuum 1140, 2463, 2551
Wall 3102
Water Heater 2715-2716, 3096, 3103

VENTURI BLOWERS 1783

VERNIERS 2325, 2328-2329

VERTICAL
Fans. 2925, 2929-2935, 2940
File Cabinets/Systems. 1344
Grinders. 2506
Milling Machines 2344
Rods. 1993-1996

VEST COOLING INSERTS 1828

VESTS,
Cooling. 1828
EMS (Emergency Medical Services) 1905
Evaporative Cooling. 1828
Flame-Resistant 1828
Heated 685
High-Visibility. . . . . .965, 1724-1725, ... 1810, 1828, 1905
Incident Command. 1905
Life. 1808-1810
Public Safety 1905
Respiratory Cooling 1828
Safety 1724-1725, 1828, 1905
Scrimmage 1478
Traffic. 965, 1724-1725, 1905

VGA CONNECTORS 360-361

VIALS 657, 660

VIBRATION
Absorbers 1222-1223, 2198-2200, 3013
Data Loggers 568, 593
Isolators. 1221-1223, 2983, 2986, 3099
Meter Accessories. 557
Meters 557, 568
Sensors 174
Switches 174

VIBRATOR
Flexible Shafts. 149
Heads. 149
Motors 36

VIBRATORS,
12VDC 149
Air 149-152
Concrete 148-149, 670
Electric. 148-149, 151
Hydraulic 150
Laboratory 150
Pneumatic 149-152

VIDEO
Cable Connectors. 355-356
Cables 351, 358-360
Converters. 358
Inspection Systems . . . . . .543, 616-617, ... 672, 684, 866
Monitors. 866, 2022, 2050
Recorders 2045-2046, 2048-2049
Scalers. 358

VIDEO CABLE ADAPTERS. 360-361

VIDEO SURVEILLANCE
Cable Adapters 360
Cables 2022
Cameras 2045-2048
Monitors 2045, 2050
Signs 1924
Systems 2045
Video Recorders 2045, 2048-2049

VIDEOS,
Training 1775

VIEWERS,
Door 2005

VINYL
Cleaners 910, 1519
Protectants 909-910
Seals 2232

VINYL RUBBER 2203

VISCOMETERS & REFERENCE STANDARDS 651

VISE
Bases 833
Handles 2346
Jaws 833, 2346
Mounting Brackets 832
Parallels 2329
Replacement Parts 833
Stands 2359
Workstops 2346

VISES,
Angle 834, 2346
Bench 831-833, 874
Clamp-Base 832
Combination 831
Cross Slide 2346
Drill Press 2346
Engineer's 831, 874
Flat 2346
Machinist's 831-833, 874, 2318, 2346
Mechanic's 831-832
Milling 833, 2346
Pin 2343
Pipe 831-832, 874
Portable 831-832, 874
Quick-Release 2346
Reversible-Jaw 831
Rotating-Jaw 831-832
Swivel-Base 831-833, 2346
Toolmaker's 2346
Tradesman 831, 833, 874
Utility Workshop 831, 833
Vacuum-Base 832-833
Welding 2426
Woodworker's 832-833, 886
Yoke 874

VISITOR
Badges 1970
Eyewear 1650
Signs 1917, 1924
Wristbands 1970

VISORS,
Faceshield 1639, 1709, 1715
Thermal Imager 614

VITON RUBBER 2204

VOICE/DATA
Blanks 304, 356
Boxes 305-308, 311-312, 320, 355-356
Cabinets 353-354, 357
Connectors 293, 307, 351, 355-356, 358, 360, 376, 389
Duct-Mounting Clips 303
Equipment Brackets 306, 317-318, 405
Faceplates 304, 306, 328, 355-356, 360
Grid Wire Fasteners 318
Jacks 355-356, 360
Outlet Frames 356
Panel Adapters 293, 357
Panels 354
Patch Cords 354, 362
Plugs 355
Power Distribution Units 353
Raceways 304-307
Racks 353-354, 357
Surface Boxes 304-307, 355-356
Surge Protectors 403
Tools 303, 307, 318, 345, 347, 362-366, 381-382, 384, 389, 407, 671, 678, 817, 839, 844-848, 853, 855, 859, 924, 1089
Wall Plates 328, 355, 360
Wire Verification Tools 362-365, 565
Wiring Blocks 355

VOICE/DATA CABLE
Channels 304-307, 404-405, 1131, 1338
Clips 303-304, 317-318, 410, 1338
Duct 293, 303
Duct Brackets 293
Duct Caps 293
Duct Covers 303
Duct Elbows 293
Duct Extensions 293
Duct Plates 308
Duct Tees 293
Grommets 318, 1338, 1884
Marking Labels 369
Marking Tape 367, 373
Pullers 847-848
Tray Brackets 307, 405
Tray Guides 307
Tray Supports 307
Tray Washers 307
Trays 293, 307
Wrap 406-407

VOICE/DATA CABLES 348, 350, 352, 354, 357, 361-362

VOLLEYBALL EQUIPMENT 1478

VOLTAGE
Calibrators 562
Data Loggers 538, 551-552
Detector Extension Handles 547
Detector Ground Shields 547
Detector Kits 537-541, 543-547, 551-552, 564
Detectors 536-538, 540, 544-547, 551-552, 554, 857, 885, 1711
Event Recorders 551
Hot Sticks 547, 1711
Markers 373
Monitors 536-538, 544, 551-552, 3031
Recorders 551-552
Regulators 205, 208, 213-214, 353
Sensor Relays 221
Tester Cases 537, 539, 548-549
Testers 536-547, 551-552, 556, 558, 562, 607, 921, 1711
Tracers 547, 564

VOLTMETERS,
Analog 539, 544, 547, 559
DC 225-226, 536-538, 544, 551, 559
Digital 225-226, 536-544, 546-547, 551-552, 556, 558, 562, 607
Panel-Mount 225-226, 559

VORTEX
Mixers 648
Tube Compressed Air Coolers 2583
Tubes 2583

W

WADERS 1744

WAGONS 1167, 1171

WALK-IN COOLER DOORS 1120-1121, 1451

WALKBOARDS 1028, 1040, 1043

WALKIE-TALKIES 2024-2027

WALL
Air Conditioners 2992
Block Deodorizers 1505
Block Dispensers 1505
Brackets, Datacom 317-318
Calendars 1369-1371
Caps 2949, 3087, 3103
Cases, Air Conditioner 2992-2993
Cases, PTAC 2993
Charts, Safety 1709, 1941-1942
Clocks 1374-1375
Collars 2934, 3096
Corner Guards 2006
Curtain Tracks 1121
Dampers 2938-2939
Ducting Kits 2949
Fan Replacement Parts 2948
File Hangers 1358
Files 1350, 1358
Furnaces & Furnace Vent Enclosures 3085
Guard End Caps/Corners 2006
Guard Rails 2006
Guards 2006
Hooks 1329, 1331-1332
Hydrants 2912
Kits, Wire Partition 1314-1315
Mops 1532
Organizers 745, 1331, 1358, 1525
Paints 1595-1599
Patches 889, 1597, 1633
Pockets 1350, 1358
Racks 1331, 1358, 1525, 1547
Receptacles 330-333, 336-340, 342
Registers 3076, 3085
Safes 1968
Screens 1121, 1353
Shelves 1250, 2760-2761
Speakers 2039-2040
Sponges 1622
Stops 2003-2004
Switch Keys 330
Switch Timers 418-420
Switches 167, 329-330, 333, 419, 465-468, 2922, 2929, 2949
Thermostats 2995, 3020-3025, 3028, 3071-3072, 3075
Thickness Testers 569
Thimbles 3087
Urn Ashtrays 1552
Ventilators 2944, 2947-2948, 2954-2955, 2961-2962
Vents 3102
Washing Kits 1532

WALL HEATER
Frames 3073-3074
Mounts 3073-3074, 3077-3078

WALL HEATERS 2994-2995, 3069, 3072-3075, 3077-3079, 3087

WALL MOUNTS,
Flat-Panel Monitor 2023
Heater 3070, 3073-3074, 3077-3078
Shower 2744
Speaker 2023
TV 2023

WALL PACKS,
Lighting Fixture 452-455

WALL PLATES,
Aluminum 309-310, 328
Audio-Video 360
Blank 309, 328, 356
Brass 328
Cable Pathway 1884
Combination 308, 328
Damper 3101
Electrical 304, 307-310, 328, 330, 338, 356
Flat-Panel Monitor/Video 2023
GFCI (Ground Fault) 328
HDMI (High-Definition Multimedia Interface) 360
Lockout 330
Nylon 328
Receptacle 304, 308-309, 328, 338
Security 328
Stainless Steel 328, 355
Switch 259-260, 262, 304, 306, 308-309, 328, 330
Tamper-Resistant 328
Telephone 328, 355
Thermostat 3020-3021, 3027-3028
Timer 421
Video 360
Voice/Data 328, 355, 360
Weatherproof 309-310, 328, 340

WALL SLEEVES,
Air Conditioner 2992-2993
Baseboard Heater 3090
Heat Pump 2992
Heater 3073-3074, 3090

WALLBOARD
Anchors 2169-2170
Saws 886, 889

WALLPAPER
Adhesives 1622, 2228
Brushes 1622
Removers 889, 1622
Tools 889, 1622

WALLS,
Canopy 980
Curtain 1121, 2410
Modular 1311-1312
Shelter 980
Slat 1332

WANDS,
Compressed Air Sprayer 1002
Marking 1611
Paint Sprayer 1611
Pressure Washer 1591-1592
Safety 1906
Shower Spray 1824
Sprayer 1002, 1591-1592, 1611, 3011
Vacuum Cleaner 1564-1565, 1570, 1572, 1575
Watering 1014, 1016
Wet/Dry Vacuum 1564-1565, 1575

WARDROBE
Cabinets 1267-1270, 1272-1275, 1337
Lockers 1253-1262

WAREHOUSE
Casters 1195-1214
Doors 1120-1121, 1123
Ladders . . . 1034-1039, 1041-1042, 1047-1049
Lighting Fixtures 422, 438-439, 442-443, 445-448, 451-452

WARMERS,
Foot 1642
Hand 685, 1642
Plate 1445

WARMING CABINET REPLACEMENT PARTS 1461

WARMING CABINETS,
Healthcare 638

WARNING
Flags 950, 1907
Horns 966, 1885-1886, 2052
Labels 369, 1937, 1939-1940
Lights 278-280, 967, 969, 972-976, 1175, 1230, 1885-1888, 1909, 2052
Pads 1904, 2036
Signs 1126, 1922, 1924
Sirens 1885
Speakers 1885, 2052
Stakes 1912

Tape 1900-1903, 1907
Whip Mounts 950
Whips 950

WASH
Bottles 654
Cloths 1472
Dipping Baskets 1297
Hoses 1593-1594, 1824, 2606, 2743, 2909
Stations . . . . . 1824, 1839, 1841-1844, ... 2726-2727, 2729
Towels 1472

WASH,
Body 1496-1498
Car 908, 910

WASHDOWN
Bearings 133, 136-137, 143
Casters 1195, 1197, 1202, 1204-1205
Heaters 3078
Motor Controls 158-159
Motors 31-33
Pumps 2640, 2691
Scales 1428-1430, 1455
Sprayers . . . 1000-1001, 2739-2740, 2748-2749
Stations 2743, 2909

WASHER
Assortments 2087
Hoses 1593-1594
Shims 2180

WASHERS,
Air Quick-Connect 2531
Battery Terminal 924
Beveled 2093, 2096
Bonded 2091
Brass 2090, 2723
Cable Tray 307
Channel 316
Clothes 1466
Cold Water Pressure 1587-1590
Conical 2096
Countersunk 2096
Cushioning 2091
External Tooth 2094
Fender 2087-2088, 2091-2092
Finishing 2096-2097
Flat . . . 2055, 2087-2093, 2096-2097, 2197, 2317
Garden Hose 1013
Grade 8 . . . . . 2090, 2095
High-Collar 2095
Hot Water Pressure 1590, 3011
Internal Tooth 2094
Laboratory Glassware 641
Lock 2055, 2087, 2092-2095, 2097
Metric 2089-2096
Military Specification 2089
Parts 938-939
Plastic Pipe 2723
Polyethylene Pipe 2723
Pressure 1578, 1587-1590, 3011
Reducing 315
Retaining 2085
Rivet 2135
Rubber Pipe 2723
SAE Flat 2087-2088, 2090-2091, 2093, 2317
Sealing 322, 2091
Split Lock 2087, 2094-2095
Spring 2094
Square 316, 2096
Stainless Steel 2088-2091, 2093-2094
Structural 2090, 2096
Thicker Flat 2089-2090, 2092, 2096
Thrust 142
Tooth 2094
USS Flat 2088, 2090
Wedge Lock 2092
Window 909, 1532, 1543, 1550

WASHFOUNTAIN REPLACEMENT PARTS 1844, 2726-2727

WASHFOUNTAINS 2726-2727

WASHING MACHINE CONNECTORS 2718, 2723

WASHROOM (SEE RESTROOM)

WASP SPRAY 1023

WASTE
Can Bases 1553
Can Covers/Lids 1552, 1554-1556
Container Dollies 1556
Container Panels 1553
Disposer Switches 2732
Disposers 2732
Labels 1405, 1937
Oil Evacuation Packages 931

WASTE CONTAINERS 1485, 1552-1558

WASTEBASKETS 950, 1485, 1552-1558

WASTEWATER
Alarm Panels 2655
Check Valves 2627
Control Boxes/Panels 2655
Level Controls 3039
pH Testers 627-628
Pumps . . . 1824, 1865, 2619, 2621, 2623-2626, ... 2632-2633, 2637, 2646-2647, 2649, ... 2661-2662, 2665, 2667, 2689, 2695
Samplers 633

WATCHDOG TIMERS 222-223

WATCHES,
Stop 582

WATCHMAKER'S LOUPES 2341

WATER
Alarms 874, 2629, 2679, 3092
Backpacks 1828
Baths 640
Bladders 1824
Boilers 3089
Bottle Holders 1798
Bottles 633, 654, 1137, 1444
Brooms 1594
Chlorinating Pumps 2688
Circulators 2643, 2657, 2659-2660
Containers 1137, 1297, 1533
Deionizers 635
Detectors 874, 2679, 3092
Discharge Hoses . . . . . 1817-1818, 2606, ... 2634-2637, 2691
Dispenser Replacement Parts 2721
Dispensers 1137, 2721, 2732, 3002, 3004
Expansion Tanks 2661, 2717
Fountain Bubblers 2719, 2731
Fountains 2718-2720, 2731
Hammer Arrestors 2913
Heat Exchangers 3039
Jetters 863-864
Leak Detectors/Shutoffs 874, 2679, 3092
Level Controls 3039
Level Testers 633, 2629
Line Installation Kits 2718
Meter Keys 1009, 2751, 2764
Meters 2682, 2684-2685, 2687
Mister Rings 2916-2917
Nozzles 1014, 1818-1819, 2743, 2909
Preservatives 576
Pressure Boosters . . . . . 2633, 2642-2645, ... 2648-2653, 2691
Pressure Gauges 576-579, 588, 2806
Pressure-Reducing Valves 287-288, 2660, 2891-2892
Pressure Switches 287-288
Purifier Consumables 635, 1837
Purifiers 635
Purifying Tablets 1837
Quality Meter Accessories 630, 632
Quality Meters 627-629, 631, 2462
Rakes 999
Regulators 2889-2890, 2892-2893, 3017
Rescue Suits 1810
Resistant Timers 420
Sensors 2629, 2684, 2686-2687, 3039
Separators 2571, 2576, 2585, 2590
Softener Salt 2702
Softeners 2702
Spray Guns 1525, 1591, 2518, 3011
Sprinklers 1012
Storage Tanks 1137, 2656, 2661, 2715
Supply Shut-Off Wrenches 2751, 2764
Supply Stops . . . 2718, 2723, 2744, 2807, 2850
System Pumps . . . . . 2638-2639, 2643, 2646, . . . 2650, 2652-2654, 2661-2662, 2691, 2701
System Treatments 2702, 2998
Test Kits . . . . . 578, 627-628, ... 631-633, 1480, 2702
Test Strips 632, 2702
Timers 416, 418, 2658-2659, 2764
Well Systems 2653

WATER COOLER
Cup Dispensers 1826, 2721
Glass Filler Kits 2719
Paper Cups 1825-1826
Racks 1825-1826
Replacement Parts 2719, 2721
Temperature Controls 3019

WATER COOLERS,
ADA-Compliant 2719-2720
Bottled Water 2721
Freestanding 2720-2721
Hands-Free 2720
Hot and Cold 2720-2721
Jobsite 1825-1826
Vandal-Resistant 2720
Wall-Mount 2719-2720

WATER FILTER
Bags 2711
Cartridge Elements 2641
Cartridges 635, 2703-2710, 2719, 3003
Replacement Parts 2703-2709
Systems 2702-2707, 3003-3004

WATER FILTERS . . . . . 635, 2639, 2694, ... 2702-2706, 2709, 2719, 3003-3004

WATER HEATER
Alarms/Shutoffs 874, 2679
Connectors 2716-2717, 2806, 3096
Controls 416, 418, 2658, 3025, 3030, 3033
Descaler Kits 3012
Drain Pans 2716
Elements 2713
Fittings 2801-2802
Replacement Parts 2716
Scale Inhibitors 2707, 3012
Stands 2716
Straps 2716
Tanks 2715, 2717
Thermostats 3033
Timers 418
Valves 2862, 2893, 2895
Vents 2715-2716, 3096, 3103

WATER HEATERS 1824, 2712-2716, 3063-3065

WATER HOSE
Assemblies 2606, 2634-2635
Caps 1818
Connectors 1013, 1521, 2764, 2806
Reels 1016, 1818, 2523-2525, 2527-2529
Repair Kits 1013
Valves 1013

WATER HOSES . . . . 1015-1016, 1521, 1593-1594, 1817-1818, ... 2420, 2435, 2529, 2604-2606, 2634-2637, ... 2691, 2743, 2748-2749, 2806, 2909

WATER TANK LEVEL CONTROLS 3039

WATER TANKS,
Jet Pump 2656
Lawn and Garden Sprayer 1002
Precharged 2656
Well 2656

WATER TREATMENT CHEMICALS 1480, 2702, 2998, 3059, 3061

WATERFALL PUMPS 2638-2639

WATERPROOF
Cell Phones 2034
Clothing 1727-1730, 1811
Notebooks 1355
Paper 1100, 1355
Telephones 2035

WATTMETERS,
Clamp-On 542, 551-552
Digital 542, 547, 551-552

WAX
Applicators 911, 1622
Paper Liners 1494
Removers . . . 906, 1517, 1520-1521, 1523, 2446

WAXES,
Vehicle 908, 910

WAY OILS 2456

WD-40, . . . 2439, 2441-2442, 2445, 2450, 2453

WEAR PADS,
Sling 1079

WEATHER
Alert Radios 2027, 2033
Hoods 2934
Station Accessories 583
Station Consoles 583
Station Software 583
Stations 583
Strip Adhesives 905, 1999, 2228
Strips 1124, 1391, 1999-2001, 2198, 3092

WEATHER-RESISTANT RECEPTACLES 330-331, 333, 402, 412

WEATHERPROOF
Caulk 905, 2226, 2228, 2230-2233, 2236
Connector Boots 337-338
Electrical Box Covers . . . . . 309-311, 320, ... 328, 338, 340-341
Electrical Boxes . . . . . 292-295, 297-300, ... 309-311, 320, 462
Paper 1355
Plug Boots 337-338
Plugs 340
Wall Plates 309-310, 328, 340

WEATHERSHIELDS,
Motor 51

WEB SLING WEAR PADS 1079

WEB SLINGS 1075-1079, 1098, 1144

WEB STRAP PULLERS 1059

WEBBING,
Tie-Down 1103

WEDGE
Anchors 2162-2164
Belts 96
Sockets 1089

WEDGES,
Chuck 2315
Door Stop 2003
Pallet Truck 1173
Vertical Lifting 861, 2469

WEED
Burners/Inhibitors/Killers 1003
Pullers 999
Rakes 999
Trimmers & Whips 987

WEIGHING PANS/PAPERS 644-645

WEIGHTS,
Balance Scale 645, 1430
Barricade 1860, 1908-1909

Canopy 980
Exercise 1477
Float Switch Cable 2629
Safety Cone 1527, 1552, 1911
Scale 645, 1430
Snowblower 991
Tire Balancing 952
Traffic Barricade 1860
Wheel 952

WELD
Cleaners 2427-2428
Nuts 2086
Studs 2148

WELDER/GENERATORS 2421, 2560

WELDER RUNNING GEAR . . . 1187, 2411, 2416

WELDERS,
AC 2411-2412, 2416, 2418, 2421-2422
AC/DC 2416, 2418, 2421
Arc 2412, 2416, 2418, 2421
Blade 2351
Cordless 108
DC 2412, 2416, 2418, 2421
Engine-Driven 2421
MIG (Metal Inert Gas) 2412, 2416, 2421
Portable 108, 2412, 2416, 2418, 2421-2422
Shop 2421
Stick 2416, 2418, 2421
TIG (Tungsten Inert Gas) 2418, 2421
Wire-Feed 2412, 2421

WELDING
Accessories . . . . . 233-234, 2419, 2422-2425, ... 2427-2428, 2430-2431, 2437, 2534
Accessory Kits . . . . . 233, 2411, 2416, ... 2419-2420, 2425, 2436
Antispatter 2428
Blankets 2409, 2431
Brazing Outfits 2430-2431, 2436-2437
Cable Connectors 2424
Cable Reels/Racks 2435
Cable Wraps 406
Cables 347, 923, 2416, 2420
Caps 1716, 2420
Carts 1187, 2411-2412
Centering Heads 2422
Check Valves 2435
Clamps . . . 834, 836-837, 2416, 2420, 2424-2426
Clothing 1703, 1715-1717
Collets 2420
Conduit Liners 2414
Contact Tips 2414
Controls 2414, 2419
Coolants 2419
Cover Plates 1766, 1769, 2405, 2407
Crack Detection Dyes 2427
Curtains 2409-2410
Cutting Outfits 2430-2431, 2433, 2436
Cylinder Carts 1187, 2411, 2437
Cylinder Trucks 1003, 1188
Cylinders 2430-2431, 2436-2437
Electrode Cases 756, 2416
Electrode Holders 2416
Electrodes 2417, 2419, 2423
Faceshield Covers 1766, 1769, 2405
Faceshields 1766-1767, 1769, 2405
Filter Plates 1769, 2405, 2407
Flint Lighters 2431
Flux 2618
Foot Pedals 2419
Gas 2437
Gas Blenders 2432
Gas Diffusers 2414
Gas Shut-Off Valves 2430-2431
Gauges 2424
Gear Bags 756
Glasses/Goggles 1660-1661, 2405
Gloves 1678, 1702, 1704, 2405
Grounds 2424-2425
Guns 2413-2414
Heating Mixers 2433-2434
Helmets . . . . . 1766-1767, 1769-1770, ... 1772, 2405-2407
Hose Manifolds 2424
Hose Reels 2435
Hose Repair Kits 2424, 2534
Hoses 2408, 2420, 2435-2436
Lenses 2420
Link Protractors 2424
Links 2424
Lubricants 2428
Magnifier Plates 1767
Markers 2422, 2428
Mats 1896-1897
Nozzle Insulators 2414, 2420
Nozzles 233, 2414, 2420, 2434, 2436
Outfits 2418, 2430-2431, 2433, 2436-2437
Oven Accessories 2416
Ovens 2417
Oxyacetylene Kits 2430-2431
Pads 2409, 2431
Panels 2410
Pipe Wrap 2409
Plasma Cutters 2358, 2422-2423
Pliers 839, 2424
Positioners 2424
Proportional Gas Mixers 2432
Regulators 2428-2429, 2433
Remote Controls 2419
Replacement Parts . . . . . 2409-2410, ... 2414, 2422-2423
Respirator Conversion Kits 1763
Respirators . . . . . 1758-1763, ... 1766-1767, 1772, 2407
Rods 2417, 2419, 2432
Screen Casters 2410
Screens 2410
Screws 2148
Smoke Eliminators 2408, 3060
Squares 2424
Stands 2424-2425, 2437
Storage Containers 756, 2416
Table Components 2411, 2426
Tables 2426
Tank Adapters 2424
TIG Torches 2419
Tip Cleaners 2428, 2431
Tip Mixers 2433-2434
Tip Tubes 2433
Tips . . . . . 2414, 2416, 2423, 2431, ... 2433-2434, 2436-2437
Torch Connectors 2416, 2435
Torches . . . . . 2419-2420, 2423, 2430-2431, ... 2433, 2436-2437
Training Materials 1943
Umbrellas 2409
Vises 2426
Water Coolant Systems 2419
Wire 2415, 2419, 2432

WELL
Controls 2655-2656, 3030
Ejectors 2653
House Heaters 3075
Pitless Adapters 2656
Plates 663
Points 2656
Pressure Switches 288
Pump Starters 2655
Pumps 2650-2655, 2689, 2701
Ropes 2656
Seals 2656
Splice Kits 2656
Tanks 2656
Torque Arrestors 2656

WELLS,
Immersion 3030

WET
Mop Pads 1524
Mops 1530-1536
Saw Blades 719-721
Saws 673, 717-718, 2349
Suits 1810

WET/DRY VACUUM
Accessories 1563, 1565, 1575-1576
Attachments 1564-1565, 1575-1576
Bags 1565-1566, 1574
Drums 1573
Filters 1563, 1565-1566, 1576
Hoses 1564-1565, 1575-1576
Micro Cleaning Kits 1575
Replacement Parts 1565
Silencers 1565
Squeegees 1564, 1575
Universal Tool Adapters 1576
Wands 1564-1565, 1575

WET/DRY VACUUMS 678, 1563-1567

WHEEL
Balancers 952
Bearing Locknut Sockets 953
Bearing Packers 934
Blocks 1130, 1173
Brushes 862, 908, 2394-2398
Chocks 1130, 1173
Cleaners 909-910
Cover Remover Tools 953
Grinders 2506-2508
Mandrels 2374, 2381, 2385, 2389
Nut Indicators 957
Risers, Truck 944, 1128
Tools 780, 952-954
Weight Tools 954
Weights 952

WHEEL KITS,
Aquatic Lift 1481
Pedestal Fan 2916
Pump 2632
Welder 2416

WHEELBARROW
Mixers 893
Tire Repair Sealants 955
Tires 957, 1000, 1219-1220
Wheels 1219-1220

WHEELBARROWS 1000, 1158

WHEELCHAIR SCALES 1425

WHEELCHAIRS 1171, 1836

WHEELS,
Abrasive Cup 2391
Antimicrobial 1218
Baggage Cart Caster 1215
Ball Bearing 1214-1220
Bench Abrasive 2388, 2391
Blower 2980, 2983-2985, 2988
Buffing 724
Canaphin 1214
Cast-Iron 1214, 1217-1218
Caster 1214-1220
CBN Abrasive 2254
Chemical-Resistant 1214-1218
Chop Saw . . . . . 719-721, 737, ... 2383-2385, 2387-2388
Circular Saw 2384
Contractor's 1219-1220, 2384
Conveyor Skate 1108
Cut-Off Abrasive . . . . . 719-721, 724, 729, ... 734, 737, 2383-2388
Cut-Off Saw 719-721, 729, 737, 2384-2386
Cutting . . . . . 719-721, 724, 729, 734, ... 737, 2383-2388
Deburring Abrasive . . . . . 737, 862, 2380-2382, ... 2388-2389, 2394-2398
Delrin Bearing 1214-1216, 1218-1219
Depressed Center Abrasive . . . 2382, 2384-2388
Diamond Abrasive 737, 2254
Distance 877, 1611
Finishing Abrasive . . . . . 862, 2380-2382, ... 2389, 2391, 2395-2396, 2398
Flange 1218
Flap Abrasive 724, 2380-2382
Food Cart 1215-1216, 1218
Forged Steel 1217-1218
Garden Equipment 1219-1220
Grinding Abrasive . . . . . 719-721, 724, ... 737, 2254, 2380-2388, 2391, 2396
Hand 2318
Hand Truck 1219-1220
High-Speed Cut-Off 737, 2384-2388
High-Temperature 1215, 1217-1218
Iron 1214, 1217-1218
Lawn Mower 1214-1215, 1219-1220
Lift 1183
Measuring 226, 567, 877, 1611
Metal 1217-1218
Mounted Point Abrasive 2392
Nylon 1217
Pallet Jack 1217
Pedestal Abrasive 2388, 2391, 2395
Phenolic Caster 1214
Plain Bearing 1214-1217
Pneumatic 1219-1220
Polishing Abrasive 724, 2389
Polyolefin Caster 1199, 1204, 1214-1215
Polypropylene Caster 1214-1215, 1218
Polyurethane Caster 1216, 1218, 1220
Precision Bearing 1214-1218
PTFE Bearing 1215
Raised Hub Abrasive 2382, 2384-2388
Roller Bearing 1214-1218
Rotary Tool Polishing 724, 2380
Rubber 1215, 1219-1220
Shock-Absorbing Caster 1215, 1218
Shopping Cart 1215
Squirrel Cage 2980, 2988
Stainless Steel 1218
Steel 1217-1218
Surface Conditioning Abrasive 2380-2382, 2389, 2391
Thermoplastic Rubber 1215, 1218
Thread Guard 1215, 1218
Toolroom Abrasive 2383
Track 1218
Truck 1220
V-Groove 1217-1218
Wheelbarrow 1219-1220
Wire Abrasive 862, 2394-2398

WHETSTONES 813, 2393

WHIPS,
Air Conditioner 323, 3094
Warning 950

WHISK BROOMS 1541

WHISKS,
Cooking 1454

WHISTLES 1478, 1907

WHITEBOARD
Cleaner Caddies 1367
Cleaners 1367
Easels 1370-1371
Erasers 1367
Markers 1367

WHITEBOARDS
. . . . . 1337, 1352, 1358, 1367-1371

WI-FI
Repeaters 2049
Thermostats 3020

WINCH
Bars 1105
Blocks 1084
Cables 1054, 1064, 1083-1084, 1123
Hooks 1069, 1084
Load Huggers 1104-1105
Motors 2474
Replacement Parts 1064
Slings 965, 1074-1079, 1084, 1106
Stands 1085
Straps 1104-1105
Tracks 1105-1106

WINCHES,
Air 1083
ATV Utility 1081-1082
Cargo 1105
Confined Space 1783, 1787
DC 1081
Electric 1064, 1081-1083, 1478
Hand 1059, 1085, 1105
Hand Brake 1085

Hand Ratchet 1085, 1105
Hydraulic 1082
Lifting 1082-1083, 1085
Manually-Operated 1064, 1085, 1105
Marine 1085
Pneumatic 1083
Pulling 1081-1083, 1085, 1105, 1478
Rescue 1787
Stainless Steel 1085
Vehicle Recovery 1081
Web Strap 1105

WIND

Screens 1010, 1100
Socks 1907
Speed Indicators . . . 543, 571-572, 583, 620-621
Turbines 2968

WINDERS,

Line 892

WINDOW

Air Conditioners 2990-2991
Air Curtains 2969-2971
Anchors 1791
Antifoggers 902, 909
Blinds 1484
Brushes 1532, 1543
Coolers 3001
Fans 2924, 2967
Film 1623
Gasket Installation Tools 2206
Gaskets 2206
Handles 2018
Heat/Cool Units 2990-2991
Mount Kits, Air Conditioner 2990
Mount Kits, Heat Pump 2990
Punches 812-813
Retainers 2055
Scrapers 887-888, 1551
Scrubbers 1550
Sealants 2227, 2230-2233, 2236
Shades 1484
Squeegees 909, 1532, 1550
Supports, Air Conditioner 2990
Washers 909, 1532, 1543, 1550

WINDOW CLEANING

Brushes 1532, 1543
Clamps 1551
Kits 1532
Poles 1550
Sprays 909, 1502, 1510, 2446

WINDOWS,

Blast Cabinet 2402
Electrical Enclosure 300
Faceshield 1639, 1709, 1715, 2405
In-Plant Office 1311-1312
Infrared 605, 609, 614-615
Key Lock Box 1967
Storage Bin 1282, 1287

WINDSHIELD

Glass Treatment 902, 909
Scrapers 948
Washer Fluids 902, 909
Washers/Deicers 902
Wiper Blades & Protectors 947-948

WING

Nuts 2084
Screws 2102

WINTER

Liners 1640, 1642, 1714
Traction 994

WIPERS,

Cleaning 661, 911, 1490-1492, 1494, 1514, 1535, 1538
Cleanroom 661, 1492
Cloth . . . 908, 911, 1492, 1518, 1535-1536, 1538
Dust 911, 1518, 1535, 1538
Microfiber 911, 1492, 1518, 1535-1536, 1538
Sponge 1549

WIPES,

Alcohol 232, 1829, 1831, 1834
Antiseptic 1500, 1829, 1831, 1833-1834, 1837
Computer 232, 1512, 1518
Degreaser 1500
Disinfectant 1510, 1512, 1514
Disposable 232, 661, 908, 1490-1492, 1494, 1500, 1502, 1510, 1512-1515, 1518-1519, 1536-1537, 2446
Eyewear 1666
Food Service 1490-1491, 1514
Glass Cleaning 1502
Graffiti Remover 1519
Hand Cleaner 1500, 2446
Laboratory 661
Monitor 232
Paper 661, 1490-1492, 1494
Respirator 1775
Sanitizing 1500, 1510, 1512, 1514, 1535, 1835, 2446
Task 661, 1492
Whiteboard 1367

WIRE

Baskets 1297, 1299, 1525
Brush Adapters 2385, 2399
Brushes 862-863, 871, 891, 922, 1545, 1548, 2161, 2394-2398, 2400, 2424, 2618, 3095
Cages 1229-1230, 1262, 1314-1315, 1451
Carts 849, 1155-1157, 1161-1162, 1167, 1171-1172, 1347, 1349
Clamps 318, 392, 1059, 2078, 2420
Connector Handles 924
Connectors 355, 376, 378, 380, 383, 386-392, 923-924, 961, 2656
Container Levelers 1181
Containers 1299, 1301
Crimping Ferrules 386
Crimping Tools . . . 365, 381-384, 389, 814, 839, 841, 846-848, 854-855, 859, 924
Cutters 233-234, 318, 347, 365-366, 383-384, 671, 814-815, 817, 838-842, 844-846, 848, 853-855, 859, 861, 863, 924, 1089
Decking 1227, 1229, 1231-1234
Device Levelers 317
Device Retainers 276, 317
Devices (See Connectors, Plugs, Receptacles, Switches, Etc.)
Disconnects 383-384, 388-389
Enclosures 293, 1134, 1229-1230, 1314-1315
Fabric 1010, 2190
Feed Welders 2412, 2421
Feeders 2411
Fences 1230, 1314-1315
Gages 347, 2054, 2338
Hooks, Fall Protection 1792
Identification Printers 372, 1379
Identifiers 362-366, 565
Jumpers 3010
Kits 961, 1311-1312, 1317
Lockers 1262
Mesh 2190, 2192
Mesh Cutters 817
Mesh Grips 325-327, 352
Mesh Panels 1134, 1230, 1314-1315
Mesh Slings 1079
Netting 1010, 1314-1315, 2190
Nuts 386-388
Partition Posts 1134, 1230, 1314-1315
Partition Transoms 1314
Partitions 1134, 1230, 1314-1315
Probes 230-231, 537, 548, 596-597
Protection Plates 308, 317
Puller Ropes 847
Pullers 847-848
Pulling Lubricants 849, 2438-2440
Racks 1155-1156, 1240, 1246-1248, 1307, 1347, 1521-1522, 1605
Reel Caddies 849, 1167
Reel Totes 1167
Roll Files 1347
Security Carts 1157
Shears 814-815, 855
Shelves 1156, 1227, 1229, 1231-1234, 1246-1250, 1522
Shelving 1155-1156, 1172, 1246-1248, 1250, 1252, 1280, 1282-1285, 1287-1288, 1451, 1522
Shelving Label Holders 1248
Shelving, Mobile 1155-1156, 1172, 1285, 1451
Spool Racks 849, 1167, 1240, 1307
Springs 2159-2160
Strippers 345, 365-366, 383-384, 671, 808, 814-815, 841-842, 846, 848, 854-855, 859
Tackers 890
Terminals 351, 381, 383-389, 924, 2559
Ties 317, 408-410, 1094, 2535
Tracers 362-365, 547, 564-565
Troughs 293
Trucks 849, 1157, 1161-1162, 1171
Wheels 862, 2394-2398
Whisks 1454
Wrap and Unwrap Tools 407

WIRE GUARDS,

Air Circulator 2916
Emergency Lighting 2053
Fan 2916, 2927, 2940-2941
Light 518-519
Lighting Fixture 452, 518-519, 2053
Oiler 2463

WIRE MANAGEMENT

Brackets 293, 304, 317-319, 405
Cable Organizers 354, 404-405, 1131, 1338, 1343, 1393
Cable Trays 307
Channels 304-307, 404-405, 1131, 1338
Clips 303-307, 317-318, 410, 1338, 2618
Conduit 320-322, 324
Connectors/Faceplates 304, 306
Duct 293, 303, 305-306
Duct Components 293, 303
Faceplates 304
Finders 565
Fittings 293, 304-308, 313-315, 317-324, 326, 355, 407
Grommets 300, 318
Harnesses 961, 2055
Organizers 305, 354, 400, 404-405, 1131, 1307, 1338, 1343, 1393
Panels 293, 354
Raceways 304-307, 403
Sleeves 373, 407
Wire Rope Clamps 318
Wiring Blocks 355
Wrap 406-407

WIRE MARKER

Books 373
Cards 373
Sleeves 368-371, 373, 1928
Tape 367, 373
Tape Dispensers 373

WIRE MARKERS 368, 370-371, 373

WIRE ROPE

Blocks 1084, 1090
Cables 318, 1054, 1064, 1083-1084, 1087, 1123
Clamps 318, 1088
Clips 317, 1088
Cutters 318, 347, 671, 678, 817, 842, 845-846, 853, 1089
Fittings 1088-1089, 1091
Grabs 1790
Hoists 1054, 1059
Hooks 1084
Lubricants 2438-2439, 2441
Pulley Blocks 1084, 1090
Pulleys 1090, 1123
Shackles 1067
Sheaves 1090
Sleeve-N-Thimble Kits 1088
Sleeves 1088-1089
Slings 1079
Swagers 1089
Swivels 1091
Thimbles 317, 1088
Wedge Sockets 1089

WIRE,

Aluminum 1094
Appliance (AWM) 344
Automotive Primary 929
Barbed 1010
Building 343-344
Drum Bonding 1869, 1876
Drum Grounding 1876
Electric Fence 1010
Electrical 230-231, 343-347, 349
Electronic 348-350
Exit Device 1978
Flexible Fixture (TFF) 344
Grounding 387, 1320, 1876
High-Temperature 231
Hook-Up 344
Lock 1094
Machine Tool (MTW) 344
MIG Welding 2415, 2419
Music 2191
Piano 2191
Rebar Tying 716
Safety 1094
Speaker 349-350
Sprinkler 349-350
Stainless Steel 1094, 2191, 2415
Steel 1010, 1094, 2191
TFFN 344
Thermocouple 230-231
THHN 343
Tie 1094
Trailer Hitch 961
Welding 2415, 2419, 2432

WIRELESS

Access Points 666
Alarms 2034, 2053
Clocks 1375
Computer Keyboards 1354
Data Receivers/Transmitters 600, 2328
Intercoms 2034
Mice 1354
Monitors 600
Programmable Thermostats 3020-3021
Repeaters 2049
Routers 666
Speakers 685, 2022, 2037
Switches 470, 1978
Thermometers 537, 583, 587, 592, 595
Thermostats 2947, 2993, 3020-3021, 3040
Voice Alert Systems 2034
Weather Stations 583

WIREWAY NUTS 307

WIREWAYS,

Open Slot 303
Square-Duct 293

WOOD

Adhesives 891, 905, 1361, 1597, 2216-2218, 2225-2226, 2228-2233, 2237-2238, 2819, 2834
Carving Tools 821-822
Chisels 821-822
Cleaners 1518-1519
Drill Bits 705, 711
Fillers 1597, 2220
Hangers 1476, 2147
Moisture Gauges 543, 600
Moisture Indicators 543, 600
Moisture Probes 595
Screws 1476, 2097, 2108-2110

WOODRUFF KEYS 2177

WOODWORKER'S VISES 832-833, 886

WOOL FELT 2215

WORK
Belts 755, 757, 859, 1592
Centers 743, 749, 1149, 1169-1170, 1263, 1316-1326
Lights 396-397, 451, 493, 516-522, 670, 672, 674, 680, 689, 691, 693, 754, 967-969, 971, 979, 1320-1321, 2359
Positioners 1175, 1177-1183, 2424
Stand Rollers 1113, 2351
Stands 1031, 1048, 1169, 1181-1182, 1323-1324, 1326, 2425
Stops 2346
Surfaces 1276, 1337

WORK PLATFORM
Components 1028, 1035, 1040-1041, 1043-1044, 1048, 1312-1313
Connectors 1048
Extensions 1032, 1044
Guardrail Enclosures 1041, 1176
Ladders 1025-1026, 1028
Mats 1048, 1895
Straddle Kits 1032
Support Legs 1041
Tool Trays 1044, 1176
Tube Caddies 1176

WORK PLATFORMS,
Aerial 1032-1033
Fork Truck 1176
Ladder 1028, 1040-1042, 1044-1046, 1049
Mezzanine 1312
Personnel Lift 1032-1033, 1042, 1176
Rolling 1032-1033, 1042-1046, 1049
Step 1045-1046, 1048, 2197
Telescoping Plank 1028

WORKBENCH
Accessory Supports 1320, 2426
Back and End Stops 1316-1317, 2426
Drawers 1316-1321
Leg Extenders 1319, 1321
Legs 1316-1319
Lighting 516, 1320-1321, 2359
Pedestals 1318-1319
Pegboards 1169, 1321
Power Strips 1320-1321
Rails 1317, 1320-1321
Risers 1316-1317
Roll Holders 1321
Shelves 1316-1317, 1319-1321
Storage Racks 1280-1281, 1289, 1320
Tool Balancers 1320-1321
Tops 1316, 1325
Uprights 1321
Wiring Kits 1316-1317

WORKBENCHES 749, 1149, 1169-1170, 1263, 1276, 1316-1326, 1399

WORKPIECE COOLING DEVICES 2583

WORKSTATION
Dollies 1865
Drawers 1320-1321
Footrests 1320-1321
Lighting 1320-1321
Platforms 1046, 1048
Power Strips 1320-1321
Shelves 1320-1321
Supports 1321

WORKSTATIONS,
2-Drum Containment 1865
Computer 1328, 1338, 1343
Cubicle 1337
Ductless 636
Medical 1343
Mobile 741-744, 747, 1169, 1343
Office 1337
Welding 2411, 2426

WORKTABLE
Cabinets 749, 1149, 1169-1170, 1263-1265, 1319, 1325-1326
Casters 1323
Drawers 1320

WORKTABLES . . . 1169, 1316-1326, 2426, 2730

WRAP
Machine Ramps 1417
Strips, Firestop 1883

WRAP,
Bubble-Padded 1401, 1412
Cord 2998
Corrugated Packaging 1412
Fire Barrier 1883
Fireproof 1386
First Aid Compression 1830-1832, 1834
High-Temperature 1386, 1389
Pallet 1414-1416
Pipe 2409, 2821, 2832-2838
Shrink 1418
Spiral 407
Stretch 1414-1416
Tool 2185
Voice/Data Cable 406-407
Wire 406-407
Wrist 1706

WRECKING BARS . . . 823, 862-863, 953, 999

WRENCH
Handles 768-769, 771-772, 794
Racks 745
Replacement Parts 867
Rolls 755
Sets 758, 787, 790, 795, 797, 805-806, 839, 848, 854, 856, 859, 861, 867, 871, 917, 919, 2275
Sockets 759-772, 775-781, 854, 860-862, 869, 953

WRENCHES,
Adjustable 796-797, 839, 848, 854-855, 861, 863, 962, 2275, 2503, 2751
Adjustable-Hook 796, 861
Aerator 2750
Air Conditioner 788, 3010
Air Impact 2502-2503
Air Ratchet 2503
Aluminum 863, 867
Angle 782, 794
Basin 871, 2751
Box 787-790, 794, 796, 814, 859, 861, 3010
Box-End 785, 787-794, 796, 854, 859, 861, 863, 919, 1009, 2751, 3010
Bung 861, 863, 1136, 1140, 2751
Calibration 3040
Can 365
Chain 861, 867
Combination 758, 765, 787-793, 859, 861, 863
Crescent 797, 863, 2751
Crowfoot 795, 919
Cylinder 962
Double-End 788, 794, 797, 805, 807, 859, 861-862, 953, 3010
Drain 2751
Drum Plug 863, 1140, 2751
End 867
Faucet-Seat 2751
Filter 919, 2671, 2708
Flare Nut 758, 787-788, 790, 794-795, 859
Flex-Head 703, 768-769, 771-772, 787, 789-790
Gland Nut 962
Half-Moon 794
Hex 805-807, 856, 861, 863, 867
Hydrant 869, 2767
Ignition 917
Impact 667-668, 672, 674, 676, 681-682, 686-687, 689, 691-692, 694, 697, 2502-2503, 2505
Insulated 783, 854-856, 861
Internal Pipe 871
Locking 789, 838
Lug Nut 953
Micrometer Torque 783-784, 859, 3010
Monkey 862, 867
Obstruction 794
Offset 785, 787-788, 790-794, 796, 858-859, 861-863, 867, 917, 2751, 3010
Oil Filter 919
Open-End 758, 785, 787-796, 854, 859, 861-863, 917
Pipe 838, 858, 861-863, 867, 871-872, 919, 2751
Plumbing . . . 867, 871, 2750-2751, 2756, 2764
Power 668, 672, 676, 682, 687, 689, 691-692, 694, 697
Ratcheting 682, 768-769, 771, 782-785, 787-788, 854, 859, 861, 919, 922, 2275, 2503, 3010
Refrigeration 788, 3010
Reversible 769, 771, 783-785, 787-788, 922, 2275, 2503, 3010
Service 796, 1009, 3010
Short Box 790
Short Offset 2751
Slugging 796, 858, 861
Socket 365, 758-761, 763-766, 768-769, 771-772, 782-785, 795, 854, 860-862, 953, 2502-2503, 2505, 3010
Spanner 790-793, 796, 861, 917, 2708, 2719, 2767
Spline 787-789, 794
Sprinkler 2751, 2764
Spud 796
Strap 867, 919
Striking 796, 858, 861
Stubby 788, 790, 792-793, 814, 2751
Tap 2262, 2265, 2275, 2751
Tappet 794
Toolholder Hand 2313
Torque 769, 782-785, 859, 871, 2472, 2503, 3010
Valve Wheel 797, 861
Water Shut-Off 1009, 2751, 2764

WRINGERS 1528-1529, 1534

WRIST
Strap Testers 561
Strap Tool Lanyards 859
Straps, Antistatic 561, 921, 1320
Supports 1706
Sweatbands 1641
Wraps 1706

WRISTBANDS 1641, 1970

WRITING PADS 1355, 1382

WYES,
ABS Pipe 2808
Black Malleable Iron Pipe 2770
Black Steel Pipe 2776
Brass Push-to-Connect 2558
Brass Tubing 2558, 2764
Copper Pipe/Tubing 2798-2799
CPVC Pipe 2815
Drain/Waste/Vent 2798, 2808-2810
Nickel-Plated Brass Push-to-Connect 2558
Nylon Push-to-Connect 2556-2557
Nylon Tubing 2556-2557
Plastic Pipe 2808-2810, 2812, 2815
Plastic Tubing 2554-2557
Polybutylene Push-to-Connect 2554-2555
PVC Pipe 2809-2810, 2812
Steel Duct 3098

X

XYLENE 634

Y

YARD
Hydrants 2912
Ramps 1126

YARDSTICKS 884, 1359, 2335

YOKE ENDS 2075

YOKE KITS,
Metal Inspection 2427

YOKES,
Fan Mounting 2917

Z

ZERK FITTINGS 935

ZIP TIES 408-411, 2535

ZIPPERS,
Dust Barrier 1122

ZONE
Control System Accessories 3021, 3037
Control Systems 3021, 3023, 3030
Marking Paints 1612
Valve Replacement Motors 3037
Valves 3037, 3043

3

303 PRODUCTS
Automotive Detailing Supplies. 910
Windshield Washer Supplies 902

3-IN-ONE
Lubricants and Penetrants. 2438, 2442
Oils. 2456

3M
Abrasives. 737, 2365, 2367-2374, 2376, 2378-2379, 2382, 2388-2389
Adhesives and Glues . . . 905, 2216, 2218-2219, 2223, 2225-2226, 2228, 2238
Auto Body Tools and Materials. 905-906
Automotive Detailing Supplies. . . 908, 910-911
Bumpers 1342
Caulks and Sealants . . . 905, 2230-2231, 2233
Cleaners/Degreasers . . . 897, 1511, 1518, 1524
Crimping Tools 389
Cut-Off Wheels. 2385, 2388
Ear Protection 1643-1649
Envelopes 1404
Eye Protection 1658, 1664, 1668
Filter Cartridges. 2705-2706, 2709
Filter Housings. 2707
Fire Protection Materials 1883-1884
Floor Machines 1583-1584, 1586
Glue Guns 2238
Grounding System Components 375
Head Protection. 1635-1637, 1639, 2405
Hearing Protection Accessories. 1649
Hook-and-Loop Fasteners 1393-1394
Janitorial Equipment/Supplies. 1511, 1517, 1522-1523, 1533, 1536, 1548-1549
Labels 1522
Lubricants and Penetrants. 2440
Mandrels 2367, 2374, 2389
Meters 1495
Odor Control and Drain Maintainers 1522
Paint Sprayers and Accessories 1625
Paint Trap Masking Film 1624
Pavement Markers. 1904
Respirators 1759, 1761, 1764, 1767-1769, 1775, 2407
Shrink Tubing. 376-378
Solderless Terminals 383-384, 386
Splicing Supplies. 378, 389
Tape. 374-375, 964, 1384-1395, 1397, 1404, 1901-1902
Tape Dispensers 1394-1396
Water Filter Systems . . . 2702-2703, 2705-2707
Wire Connectors 383-387, 389
Wire Markers. 373

3M AQUA-PURE
Filter Cartridges. 2703, 2706-2707
Filter Housings. 2706-2708
Reverse Osmosis Systems 2703
Scale Inhibitors 2707
Water Filter Systems 2703, 2706

3M DBI-SALA
Confined Space Equipment 1786-1787
Fall Protection Equipment 1787-1788, 1790, 1792, 1794-1795, 1801, 1804
Guardrails 1789

3M PROTECTA
Fall Protection Equipment . . . 1788, 1790, 1793, 1802-1803, 1805-1806

4

4 WAY DIFFUSER
Diffusers 3102
Filters. 3102

5

511 TACTICAL
Footwear 1757
Protective/Tactical Clothing. 1811-1813
Protective/Tactical Gear. 1813

5-2-1 COMPRESSOR SAVER
Hard Start Kits. 3031
Surge Protectors 3031

5 STAR HOTEL COLLECTION
Towels 1472

8

80/20
Structural Framing Systems 1118-1119

9

9 TO 5
Coffee 1437

A

A&D WEIGHING
Balances and Scales 1430
Moisture Analyzers 644

AB&A
Drain Components. 2723

ABANAKI
Oil Skimmers 2462

ABILITYONE
Ear Protection 1644
Hand Trucks. 1184
Ice/Snow Removal Tools 948
Janitorial Supplies. 1515, 1890
Office Supplies 1354, 1356, 1364

ABUS LOCK
Key Holders 1967
Locking Systems 1961-1962
Padlocks 1954, 1957, 1959-1960, 1962

AC GUARD
Condenser Cages. 3094
Locks. 3094

A/C SAFE
Air Conditioner Window Supports 2990

ACCU-LUBE
Lubricants and Penetrants. 2457-2458
Lubricators. 2461

ACCU-SCOPE
Microscopes 643

ACCUFORM
Banners, Posters, and Signs 1926, 1937, 1941
GHS/SDS Centers/Boards and Tags 1941-1942
Labels 1640, 1941
Lockout Devices 1939
Tags. 1936

ACCURATE MFD. PRODUCTS
Shims. 2180

ACME ELECTRIC
Transformers 206-208

ACME MIAMI
HVAC Motors 38

ACORN ENGINEERING
Correctional/Institutional Plumbing Fixtures 2725, 2727, 2760-2761
Washfountains. 2727

ACTION CHEMICAL
Workwear 1732

ACTION PUMP
Drum Pumps 2676-2677

ACUITY HEALTHCARE LIGHTING
Lighting Fixtures 456

ACUITY-SENSOR SWITCH
Motion Sensors 468-470

ACUMEDIA
Culture Media 663

ACURITE
Meters 620
Thermometers. 587

ADAM EQUIPMENT
Balances/Scales 644, 1425-1426

ADAMS RITE
Exit Devices 1996
Locks. 1977

ADB
Hoist Rings. 1068

ADVANCE
(See Philips Advance)

ADVANCE PRODUCTS & SYSTEMS (APS)
Spray Shields. 2831

ADVANCE TABCO
Faucets 2728
Sinks 2728-2730, 2739, 2742

ADVANCED DRAINAGE SYSTEMS
Fittings. 2813
Pipe 2813
Saws 2813

ADVANTAGE MATS
Mats. 1897

ADVANTECH
Sieves and Sieve Shakers 649

ADVIL
Pain Relievers 1830

AEGIS
Bearing Protectors. 17

AEMC
Data Loggers 552
Earth/Ground Testers 555
Megohmmeters 554
Milli/Micro-Ohmmeters 553
Phase Rotation Testers 555

AERIAL TOOL BIN
Tool Storage. 745

AERO-TECH
Lamps and Bulbs. 487-490, 494-495

AEROFLEX
Pipe Insulation. 2836

AERVOE
Paints and Equipment 1610
Stencil Inks 1403
Traffic Safety Equipment 1906

AFC CABLE SYSTEMS
Armored Cables. 323

AGRI-FAB
Lawn Equipment 995-996

AIGNER INDEX
Labels and Holders 1230, 1248

AIMS POWER
Inverters 929

AIPHONE CORP.
Audio and Video Door Access Controls 2033, 2035

AIR CYCLE
Lamp Recycling Supplies. 511

★AIR HANDLER
Air Filter Frames 3056-3058
Air Filters. 3047-3058
Fan Shrouds. 3051
Paint Booth Liner Paper. 3058

AIR KING
Blowers 2989
Fans. 2923-2924, 2967
Heaters 3068-3070

AIR PRODUCTS AND CONTROLS
Carbon Monoxide and Smoke Detector Testers 3029

AIR SCIENCE
Fume Hoods. 636

AIR SYSTEMS INTERNATIONAL
Confined Space Equipment. . . 1783-1784, 3070
Respirators/Supplied Air Systems. 1774

AIR-WAY
Fittings. 2854

AIR WICK
Deodorizers 1505-1506

AIRCARE
Humidifiers 3061

AIRLOC
Vibration Isolation Pads 1223
Leveling Mounts 1222

AIRMASTER FAN
Fans and Air Circulators 2915, 2918, 2920

AIROTRONICS
Relays 221-222

AJAX
Cleaners/Degreasers. 1504

AKG THERMAL SYSTEMS
Aftercoolers. 2586
Oil Coolers 2493

AKONA
Mortar 1632

AKRO-MILS
Bin Racks. 1280-1285, 1288, 1290
Bins and Storage Containers 1280, 1282-1286, 1288-1290, 1294, 1297-1298, 1305
Cabinets. 1303, 1305
Carts and Trucks 1148, 1166, 1281
Dollies 1281, 1290

ALARM LOCK
Alarms/Locks. 1996
Keyless Access Control Locks 1971-1972, 1976

ALBION
Casters. 1198-1199, 1206

ALC
Abrasive Blasting Equipment. 2402-2403

ALCONOX
Detergents. 642

ALDEN
Screw Extractors 2260

ALECO
Pan Rack Covers 1448

ALEMITE
Lubricators. 937

ALERA
Furniture 1336

ALERT WORKS
Weather Radios 2033

ALKA-SELTZER
Antacids. 1830

ALL
Laundry Detergents. 1516

ALL GEAR
Ropes. 1098
Synthetic Winch Lines 1083

ALL SOURCE
Blasters 2402-2403

ALLANSON
Oil and Gas Burner Controls 3036

ALLEGRO
Confined Space Equipment 1783, 1785
Cooling Vests 1828
First Aid Supplies. 1830
Heaters 3070
Respirators 1766, 1770, 1772, 1774-1775

ALLIANCE MERCANTILE
Footwear 1741

ALLIED TUBE & CONDUIT
Conduit 313

ALPHA FITTINGS
Fittings. 2558

Indicates a Diversity Supplier.

ALPHA PROTECH
Footwear 1732

ALPHA TECHNOLOGIES
Fittings. 2522, 2558, 2851
Flow Control Valves 2555

ALTO-SHAAM
Kitchen Equipment Replacement Parts . . . 1461

ALUMASEAL
Automotive Fluids 903

AMANA
PTAC Packaged Terminal Air Conditioners 2993

AMANO
Time Recorders 1375

AME
Automotive Equipment 941, 944, 953

AMEREX
Fire Extinguishers 1878-1879

AMERI-VENT
B Gas Vent Systems. 3096-3097
Furnace Vents 3096

AMERICAN BEAUTY
Soldering Equipment/Supplies 232, 235, 237, 239

AMERICAN BIOTECH SUPPLY
Laboratory Equipment 637

AMERICAN GARAGE DOOR
Door Openers. 1125
Doors 1123
Hardware. 1123-1124

AMERICAN LOCK
Locks and Padlocks. . . 1955, 1957, 1959-1960

AMERICAN RED CROSS
Emergency Response Kits 1837
First Aid Kits/Supplies 1831-1832
Weather Radios 2033

AMERICAN STANDARD
Faucets 2733-2742, 2744, 2748
Shower Fixtures. 2745
Sinks 2727
Toilets, Urinals, and Repair Parts 2748, 2751-2753, 2755-2759

AMERICOVER
Plastic Sheeting. 1099

AMES
Hose Reels/Hangers 1016
Lawn and Garden Tools 1008

AMETEK LAMB
Vacuum Motors 37

AMFLO
Compressed Air Treatment 2603
Hose Fittings 2522
Tire Service Tools. 956

AMIAD
Strainers 2896

AMPCO
Nonsparking Tools 861-863, 997

AMPLIVOX
Public Address Systems 1353, 2037-2040

AMPROBE
Air Movement Testing 620
Electrical Power Testing 538, 544-545, 547, 552-555, 564-565
Indoor Air Quality Testing. 617-618, 622
Infrared Thermometers 601-602
Nonelectrical Properties Testing 566, 600, 621, 625
Sound Level Meters. 624
Temperature and Humidity Testing 592, 594-595, 602

ANCRA
Tie-Downs 1104
Winches. 1105

ANDERSEN
Mats. 948, 1891

ANDERSON METALS
Valves 2914

ANDERSON POWER PRODUCTS (APP)
Connectors. 923-924

ANDIS
Hair Dryers. 1474
Irons. 1475

ANNIN
Flags and Flagpoles. 1351, 1907

ANSELL
Hand Protection 1669-1683, 1685, 1687-1689, 1691-1692, 1702, 1710, 1816
Workwear 1672, 1686, 1733-1734, 1736, 1740

ANTI-SEIZE TECHNOLOGY
Lubricants and Penetrants. 2443-2445
Pipe Sealants. 2226, 2820, 2842
Sealants. 2226, 2820

ANVIL
Pipe Fittings. 2768-2770, 2773, 2776-2777, 2779
Pipe Supports 2824-2827, 2829, 2832

APACHE
Belts. 1114

APACHE MILLS
Mats. 1891, 1894

APC BY SCHNEIDER ELECTRIC
Power Cords 353
Power Distribution Strips. 353
Surge Protectors 353
Uninterruptible Power Supplies (UPS) 214

APEX
Drill and Impact Bits 700-702

APM HEXSEAL
Screws. 2069, 2100
Switch Boots 262

APOLLO
Air Cock Valves 2914
Backflow Preventers 2903, 2906-2907
Ball Valves 2862-2868
Check Valves 2899, 2907
Gas Cock Valves. 2914
Pressure-Reducing Valves. 2891-2892
Relief Valves 2893-2895
Strainers 2895
Vacuum Breakers 2903-2904
Water Gauges 2912

APPLETON ELECTRIC
Conduit Fittings 321
Conduit Outlet Boxes 321
Electrical Enclosures 309
Flexible Couplings 321
Hazardous Location Conduit Bodies 314
Hazardous Location Conduit Body Covers . . . 314

APRILAIRE
Air Cleaners. 3093
Dehumidifiers 3093
Humidifiers 3092

APW WYOTT
Kitchen Equipment Replacement Parts . . . 1461

AQUAFIRST
Pool and Spa Equipment 1481

AQUATROL
Relief Valves 2894-2895

A.R. NORTH AMERICA
Pressure Washer Pumps 2693-2694
Pressure Washers 1587, 1593

ARC ABRASIVES
Abrasives. 2370-2372, 2376, 2379

ARCAIR
Antispatter. 2428
Welding Equipment 2422

ARCHITECTURAL BUILDERS HARDWARE
Door Locks and Deadbolts. 1984

ARIAT
Footwear 1753

ARIENS
Lawn and Garden Equipment 986, 992
Snow Removal Equipment. 991

ARIES FILTERWORKS
Water Purification Systems 635

ARLINGTON
Cable Connectors. 319, 324
Cable Hangers 319
Communications Device Brackets 319
Conduit Fittings 313-314, 319, 322, 324, 326

ARM & HAMMER
Laundry Supplies. 1516
Odor Control and Drain Maintainers 1506

ARMACELL
Insulation. 2835

ARMOR ALL
Automotive Detailing Supplies. 909-910

ARMOR COAT
Nuts 2055, 2079
Screws. 2062, 2116
Washers. 2091, 2095

ARMOR PROTECTIVE PACKAGING
Packaging Supplies 1413-1414

ARMORED TEXTILES
Firefighting Hoses 1817

ARMOURGUARD
Safes 1968

ARMSTRONG
Ceiling Tiles 2763
Paints. 2763

ARMSTRONG INTERNATIONAL
HVAC Equipment 2901-2903

ARMSTRONG PUMPS INTERNATIONAL
Pumps 2660

ARO
Air Line Filters/Regulators/Lubricators 2600-2601
Air Valves. 2547-2552
Centrifugal Pumps. 2627
Diaphragm Pumps 2663, 2665, 2667
Drum Pumps 2674
Grease Pumps 933, 2672
Oil Pumps 931, 936
Pneumatic Control Valves 2551

ARROW
Glue Guns 2238

ARROW SHEDS
Storage Buildings 1310

ASAHI
Valves 2869, 2885-2886

ASCO
Solenoid Coils 2883
Solenoid Valves 2874-2884

ASHCROFT
Gauges. 573-578
Pressure Switches. 290
Pressure Transducers 574, 580, 3046

ASHLAND CONVEYOR
Ball Transfer Units and Tables 1112
Belts. 1115
Conveyors 1108-1109, 1111-1113, 1115-1116, 1118
Gates/Rails/End Stops 1111, 1118
Rollers 1110

ASSA ABLOY
Electric Strikes 1977

ASSOCIATED EQUIPMENT
Battery Accessories. 922-923, 925, 928
Battery Chargers 925

ASSOCIATED SPRING RAYMOND
Springs 2160

ATCO
Flexible Duct 3102

ATKINS
Temperature Probes 596

ATLANTIC METAL
Bookcases 1348
Cabinets. 1346

ATRIX
Vacuum Cleaners. 1570, 1572, 1575-1576

ATRIX INTERNATIONAL
Vacuum Cleaners. 1571-1572

ATTIC ARMOUR
Shutter Covers. 2967

AURA
Electric Heaters 3079

AUSTIN
Snack Foods 1441

AUTO DOLLY
Dollies 944

AUTOFLO
Humidifiers & Humidifier Pads 3092

AUTONICS
Panel Meters 559
Timers 223, 421

AVEN
Task Lights. 515

AVERY
Office Supplies 1362, 1406

B

B & A
Drill Bits. 2260
Screw Extractors. 2260

B & K PRECISION
Power Supplies 560

B-LINE BY EATON
Conduit/Pipe Supports. 317-318
Cutters. 318
Jack Chains. 318

B-TEK
Scales 1426

B3C FUEL SOLUTIONS
Fuel Treatments. 896, 900

B/A PRODUCTS CO.
Automotive Exterior Accessories. 950
Chains 1073, 1107
Lifting Hardware 1070
Lifting Slings/Hooks. 961, 965, 1079

BACHARACH INC.
Air Quality Analyzers 623
Carbon Monoxide Meters. 617
Leak Detectors. 621-622, 3008
Psychrometers. 594
Pumps 3007
Refrigerant Recovery Machines. 3007
Refrigerant Scales. 3007

BACTINE
Antiseptics. 1829

BADGER
Fire Extinguishers 1877, 1879-1880

BADGER METER
Flowmeters 2684

BADGER TAG & LABEL
Labels and Tags. 1940

BAFFIN
Footwear 1741, 1743

BAG BUDDY
Trash Bags and Liners 1562

BAILEIGH INDUSTRIAL
Band Saws....2349
Cold Saws....736
Hand Tools....868, 2356
Measuring and Layout Tools....2326
Metal Fabrication Machines....2356, 2358
Metal Forming Machines....2355
Milling Machines....2344
Plasma Cutters....2358
Presses....2355, 2357
Routers....2362
Sanders/Grinders....2360, 2362
Sheet Metal Shears....2356
Table Saws....733
Waterjet Cutting Machines....2358

BALDWIN
Truck/Auto Filters....947

BALLYMORE
Ladders....1034, 1039, 1042
Personnel Lifts....1033, 1042
Work Platforms....1042, 1045-1046, 1176

BALT
Furniture....1336, 1338-1339, 1343, 1352, 1368-1373

BAND-IT
Clamping Tools and Supplies....2533, 2535-2536

BANDO
Tension Meters....96

BANJO
Ball Valves....2871-2872
Engine-Driven Pumps....2633
Fittings....1013, 2636, 2765, 2767, 2816, 2818
Strainers....2896-2897

BANKERS BOX
Boxes....1381

BANSBACH
Springs and Dampers....2015

BARNES
Water System Pumps....2622, 2639

BAR'S LEAKS
Automotive Supplies....897, 899, 903

BARSKA
Binoculars/Monoculars....2041
Detectors and Scanners....2044
Firearm Gear....2041
Safes....1968

BARTON
Blasting Media....2404

BATES
Footwear....1814

★BATTALION
Hardware....1998
Locksets....1985

BATTERY DOCTOR
Battery Accessories....924, 927
Wire....929

BATTERY TENDER
Battery Chargers....926-927

BAUSCH & LOMB
Eyewash Solutions....1830
Lens Cleaners/Towelettes....1666
Loupes....2341
Magnifiers....2340
Measuring Scales....2340

BAYCO
Booster Cables....923
Hand and Portable Lamps....522
Jobsite Lighting....519
Lamps and Bulbs....511

BDG
Hand Protection....1683

BEA
Access Hardware....1978

BEACON MORRIS
Baseboard/Kickspace Heaters....3090

BECK
Nipples....2771-2772, 2774-2775

BECKETT
HVAC Controls....3030, 3036
Oil Burner Pumps....3036
Oil Burners....3036

BEHRINGER
Pipe and Tubing Supports....2830-2831

BELIMO
HVAC Replacement Parts....3045
Valves....3045

BELL
Automotive Accessories....948-950

BELL & GOSSETT
Air Vents....3037
Circulator Pumps....2657-2658, 2660
Heat Exchangers....3039
Steam Traps....3038
Valves....2660

BEMIS
Toilet Seats....2758

BENCHMADE
Cutting Tools....812-813

BENCHMARK SCIENTIFIC
Laboratory Equipment....641, 646-648, 650

BENCHPRO
Workbenches....1399

BEN'S
Repellents and Pest Control....1022

BERKSHIRE
Cleanroom Supplies....661

BERNARD
MIG Welding Guns....2413-2414

BERNER
Air Curtains....2970

BERNZOMATIC
Brazing Rods....2432
Torches....1003, 2436

BESSEY
Bearing Heaters....145
Clamps....833-837
Cutters....817

BEST ACCESS
Key Control Supplies....1965
Locksets....1984

BEST-RITE
Message Boards....1367
Panels....1352

BEST SANITIZERS
Cleaners/Sanitizers....1514
Dispensers....1514
Personal Care Products....1514

BESTAIR PRO
Air Cleaner Filters....3049
Humidifier Chemicals....3061
Humidifier Pads....3092

BESTAR
Furniture....1337

BESTCARE
Faucets....2760
Restroom Equipment....1488, 2761
Sinks....2727
Toilets, Urinals, and Repair Parts....2760-2761

BESTFLEX
Conveyors....1116

BESTT LIEBCO
Paint Equipment and Supplies....1622

BETA
Screwdrivers....800

BETTER PACKAGES
Tape Dispensers....1396, 1398

BEVCO
Casters....1211, 1334
Chairs....1333-1335
Stools....1333-1335

BIC
Pens....1364, 1366

BIG ASS FANS
Fans and Air Circulators....2915, 2918, 2920, 2922

BIG BILL
Workwear....1713

BIG D
Deodorizers....1506

BIG JOE
Pallet Trucks....1174-1175

BIG JOHN
Toilet Supports/Seats....2751, 2758

BIGELOW
Teas....1437

BIL-JAX
Scaffolds....1043

BILLY GOAT
Lawn Equipment....987-989, 1000
Litter Vacuum Cleaners....990

BINKS
Agitators/Mixers....1605
Paint Sprayers/Guns....1625-1627
Spray Booth Accessories....1624

BIO-CIRCLE
Parts Washers....939

BIOFIT
Seating....1335

BIOFREEZE
First Aid Supplies....1829

BIRD BARRIER
Repellents and Pest Control....1018-1020, 1023

BIRD-X
Repellents and Pest Control....1018-1020, 1022

BISON GEAR & ENGINEERING
Gearmotors....80, 85
Speed Reducers....93

BISSELL COMMERCIAL
Floor Machines....1569
Vacuum Cleaners....1568, 1570-1571, 1578

BITTEL
Telephones....2036

BLACK & DECKER
Saws....734-735
Sprayers....1000
Work Stands....886

BLACK FLAG
Repellents and Pest Control....1022-1023

BLACK N' RED
Notebooks....1355

BLACKBURN
Connectors....379, 390-391

BLACKHAWK
Chisels and Punches....822

BLANCETT
Flowmeters....2684

BLASTER
Cleaners/Degreasers....908, 939
Grease....901, 2450, 2453
Lubricants and Penetrants....901, 2438, 2441-2442, 2445

BLODGETT
Kitchen Equipment Replacement Parts....1461

BLUE MAGIC
Adhesives....905
Automotive Detailing Supplies....907, 910
Cleaners....908-910

BLUEDEF
Diesel Exhaust Fluid Pumps....896

BLUEDRI
Air Cleaners....3060

BLUFF
Dock Equipment....1126-1127

BN PRODUCTS USA
Rebar Tools....734

BOARDWALK
Food Service Disposables and Dispensers....1432, 1436

BOBBY
Float Valves....2910-2911

BODINE
Emergency/Exit Lights....423

BOISE
Papers....1356

BOLLE SAFETY
Eye Protection....1660, 1664, 1668

BONDHUS
Hex Keys....805-806

BONOMI
Ball Valves....2864, 2868
Check Valves....2899-2900

BORATEEM
Laundry Supplies....1517

BORG
Timers....421

BOSCH
Anchor Drill Bits....711
Cordless Tools....690-693, 1573
Demolition Hammers....710, 713-715
Distance Meters....878
Drill and Impact Bits....701, 705, 709, 711-714
Dust Collectors....710, 722
Grinders....719, 722
Hammer Drills....710
Impact Drivers....691
Levels....879-880
Measuring and Layout Tools....880, 885
Planers....725
Rebar Bits....709, 712
Rotary Hammers....710, 712-714
Routers....731
Sanders....725
Saw Blades....720-721, 727, 730
Saws....726, 730, 732-733
Screw Extractors....2260
Screw Pitch Gauges....2338
Tap and Die Sets....2265
Thermostats....3020
Vacuum Cleaners....1566
Video Surveillance Systems....2046-2047, 2049
Water Heaters....2713, 2716

BOSTITCH
Nailers....2496

BOSTON GEAR
Couplings....128
Speed Reducers....88, 91, 93

BOUNCE
Laundry Supplies....1516

BRADLEY
Bathroom Hardware....2760-2761
Emergency Wash Equipment....1839-1844
Flush Valves....2761
Mixing Valves....2908
Shower Fixtures....2745-2746, 2759
Sinks/Washfountains....2726

BRADY
Badges and Wristbands....1970
Cards/Tags....1933, 1936, 1938-1939
Check Valves....2656

Indicates a Diversity Supplier.

Clip Sleeves . . . 373
Conduit/Wire Markers . . . 367-368, 370-371, 373
Dispensers . . . 1732
GFI Circuit Testers . . . 547
Label Machines and Printers . . . 367-371, 1928-1931
Label Tape . . . 367-371, 1928-1931
Labels . . . 368-371, 1931, 1933, 1937, 1939-1941
Lockout Devices . . . 1945-1953
Lockout Process Service . . . 1944
Marking Stakes/Flags . . . 1912
Marking Tape/Stencils . . . 1901-1902, 1904
Padlocks . . . 1955
Pipe Markers . . . 1932
Placards . . . 1937, 1940
Safety and Lockout Tags . . . 1936, 1938-1939
Safety Banners and Posters . . . 1709
SDS Materials/Centers . . . 1942
Sign Holders/Posts . . . 1916, 1923, 1926
Signs . . . 1915, 1923, 1926, 1940
Spill Control Supplies . . . 1854, 1858
Well Controls . . . 2656
Wire Management . . . 370-371

BRADY SPC
Spill Containment Supplies . . . 1845, 1850-1851, 1853-1855

BRAEBURN
Thermostats . . . 3020-3023

BRANSON
Ultrasonic Cleaners and Concentrates . . . 642

BRAWNY
Paper Products . . . 1490-1491, 1537

BRECO
Air Tools . . . 2515

BRIGGS & STRATTON
Engines . . . 985
Generators . . . 982-983
Mowers . . . 986
Pressure Washers . . . 1594
Snow Removal Equipment . . . 992

BRIGHT DYES
Dye Tracers . . . 633

BRIGHTSTAR
Flashlights . . . 523, 526, 530
TV Remote Controls . . . 2022

BRISKHEAT
Lab Heating Equipment . . . 639, 3067

BRITE-STRIKE
Batteries . . . 533

BRK
Carbon Monoxide Alarms . . . 1882
Smoke Detectors . . . 1881

BROAN
Bathroom Heaters . . . 2943, 3073-3075
Blower Replacement Parts . . . 2944
Control Switches . . . 2949
Dampers . . . 2942
Ducts . . . 2949
Fan Controls . . . 2944, 2949
Fan Dampers . . . 2944
Fan Replacement Parts . . . 2948
Fans . . . 2942-2944, 2947-2948
Roof Caps . . . 2949
Ventilator Replacement Parts . . . 2944
Ventilators . . . 2943-2944, 2948, 2968
Wall Caps . . . 2949

BROOKS INSTRUMENTS
Flowmeters . . . 2687

BROTHER
Label Printers . . . 372, 1378
Labels/Label Tape . . . 372, 1378, 1406

BROWN & SHARPE
Calipers . . . 2325-2326
Gages . . . 2330, 2333
Indicators . . . 2331-2333
Parallels . . . 2329
Rules . . . 2335
Squares . . . 2333-2334

BRUNSWICK
Recreational Games . . . 1479

BRUSH GRUBBER
Brush Removal Tools . . . 1007

BRYANT
Belt Tensioners . . . 1115
Combination Devices . . . 330
Connectors . . . 334
Locking Devices . . . 330, 337-338
Pin and Sleeve Devices . . . 340
Plugs . . . 334-335
Receptacles . . . 330-333
Switches . . . 329
Weatherproof Boots . . . 337

BUCHANAN
Wire Connectors . . . 387, 389

BUCHER MONARCH
Hydraulic Reservoir Tanks . . . 2473
Hydraulic Valves . . . 2473
Power Units . . . 2473-2474

BUCKEYE
Fire Extinguishers/Firefighting Foam . . . 1878-1880

BUCKHORN
Bulk Containers/Dollies . . . 1300
Tote Boxes . . . 1295

BUDDY
Desk Organizers . . . 1358
Literature and Magazine Racks . . . 1350

BUGX
Repellents and Pest Control . . . 1829

BUILDPRO
Welding Tables . . . 2426

BULK-STRAP
Strapping and Tie Downs . . . 1102-1103

BULLARD
Head Protection . . . 1635-1637
Respirators . . . 1765, 1771

BULLDOG
Trailer Accessories . . . 959-960

BULWARK
Workwear . . . 1712-1713, 1735

BUNN
Beverage Systems . . . 1439, 1461
Coffee Filters . . . 1443

BUNTING
Bearings . . . 144-145

BURGESS
Foggers . . . 1022

BURNDY
Cable Cutters . . . 347
Connectors . . . 379-382, 390-392
Crimping Tools and Dies . . . 381-382

BURRELL SCIENTIFIC
Laboratory Shakers . . . 646

BURTON
Task Lights . . . 495, 513-514

BUSHNELL
Binoculars/Monoculars . . . 2041
Security Management and Law Enforcement . . . 2041

BUSSMANN
Automotive Electrical . . . 200
Blocks . . . 393
Electrical Tools . . . 187
Fuse Blocks and Holders . . . 182, 186-187, 929
Fuses . . . 177-187, 949, 965

BUYERS PRODUCTS
Automotive Exterior Accessories . . . 944, 949-950, 959, 961, 966, 998
Automotive Lighting . . . 969
Automotive Tools . . . 923
Automotive Towing Supplies . . . 959-961
Pins . . . 959
Sprayers and Spreaders . . . 951
Tool Storage . . . 751
Truck Boxes . . . 753

BW TECHNOLOGIES BY HONEYWELL
Gas Detectors . . . 1779

C

C. CRETORS & COMPANY
Food Service Concessions Equipment . . . 1458

C-LINE PRODUCTS, INC.
Document Protectors . . . 1361
Job Ticket Holders . . . 1383

CABLE PREP
Voice/Data Tools . . . 846

CABLOFIL
Wire Management Systems . . . 307

CADDY
Beam Clamps . . . 318
Communications Cable Supports . . . 317-318
Lighting Fixture Supports . . . 317-318
Pipe Supports . . . 319, 2824-2826, 2829
Strut Clamps . . . 317
Wire and Conduit Management Systems . . . 317-318

CADET
Heaters . . . 3071-3074, 3077
Thermostats . . . 3071-3072

CAFÉ BUSTELO
Coffee . . . 1437

CAFRAMO
Laboratory Equipment . . . 651

CAIMAN
Hand Protection . . . 1704

CAIRNS/MSA
Fire and Rescue Helmets . . . 1815

CALBRITE
Conduit and Fittings . . . 313-315, 324
Conduit Mounting . . . 311, 319
Enclosures . . . 311
Strain Relief . . . 327

CALCULATED INDUSTRIES
Calculators . . . 885

CALDWELL
Bucket Forks/Fork Covers . . . 1177
Cranes . . . 1062-1063
Lifters . . . 1061, 1065
Spreader Beams . . . 1061

CALIFORNIA IMMOBILIZER
Automotive Locks . . . 961
Wheel Clamps . . . 957

CAMBRO
Beverage Dispensers . . . 1439
Carts . . . 1445-1446
Dishwasher Racks . . . 1447
Food Storage Containers . . . 1450-1451
Shelving . . . 1451

CAMCAR
Screws . . . 2121, 2123, 2129

CAMELBAK
Hydration Packs . . . 1828

CAMPBELL
Chains . . . 1073
Valves . . . 2656
Well Pump Accessories . . . 2656
Yard Hydrants . . . 2912

CAMRAIL
Bolts . . . 2073

CANARM
Ceiling Fans . . . 2922
Exhaust Fans . . . 2929
Fans . . . 2922

CANLESS AIR SYSTEM
Cleaning Products . . . 1354

CANNON
Viscometers . . . 651

CANTEX
Conduit . . . 320
Cover Plates . . . 320
Electrical Boxes . . . 320
PVC Cements/Solvents . . . 320

CAPLUGS
Flanges . . . 2770

CAPRESSO
Coffee and Beverage Makers . . . 1438

CARBOLITE
Laboratory Furnaces . . . 638

CARHARTT
Footwear . . . 1749, 1757
Head Protection . . . 1642
Socks . . . 1757
Workwear . . . 1713, 1720

CARISTRAP
Strapping Supplies . . . 1419, 1421

CARLING TECHNOLOGIES
Circuit Breakers . . . 202
On-Off Plates . . . 260
Switches . . . 260

CARLISLE
Cookware and Preparation . . . 1449, 1454, 1456, 1459

CARMEX
Thread Mills . . . 2278

CAROL
Cables . . . 344-347, 349-350, 352
Cords . . . 347
Wire . . . 344

CARRAND
Cleaning Equipment/Supplies . . . 908, 911

CASCADE
Dishwasher Detergents . . . 1515

CASCO
Bedroom Furniture . . . 1471
Mattresses . . . 1471

CASH ACME
Mixing Valves . . . 2908
Pressure-Reducing Valves . . . 2889, 2892
Relief Valves . . . 2893, 2895

CASH VALVE
Pressure Regulators . . . 2889

CASTROL
Oils . . . 898

CAT
Device Chargers . . . 361, 533
Smartphones . . . 2034

CATCHMASTER
Repellents and Pest Control . . . 1017, 1021-1022

CAVICIDE
Cleaners/Sanitizers . . . 1512

CAVIWIPES
Cleaners/Degreasers . . . 1512

CCL SECURITY
Locking Systems . . . 1960-1961

CDI
Screwdrivers and Nut Drivers . . . 786

CEC INDUSTRIES
Lamps . . . 504

CECO
Doors . . . 1997-1998

CELLTREAT
Laboratory Supplies . . . 663

CELLUCAP MANUFACTURING
Beard Restraints/Hairnets . . . 1731
Workwear . . . 1732, 1734-1735

CENTOCO
Toilet Seats 2758

CENTRAL
Tape 1398

CENTURY
Air Compressor Motors 36
Farm-Duty Motors 35
HVAC Motors 44-56, 58-64
Pump Motors 23, 25-26, 60

CEP (CONSTRUCTION ELECTRICAL PRODUCTS)
Jobsite Lighting 519, 521
Temporary Power and Lighting 412-413

C.H. HANSON
Marking Tools 884
Stamps/Stencils 1934
Tags 1936

CHAINFLEX
Continuous Flexing Cables 348

CHAMPION
Air Compressor Pumps 2569
Evaporative Coolers 3000-3001

CHAMPION SPORTS
Exercise/Sports Equipment 1478

CHANNELLOCK
Cutting Tools 842
Pliers 839-840, 842-843, 919
Wrenches 759

CHAPIN
Sprayers 994-995, 1000-1002

CHAR-LYNN
Hydraulic Motors 2474

CHARLOTTE PIPE AND FOUNDRY CO
Fittings 2176, 2808-2810

CHASE
Traffic Doors 1122

CHATILLON
Scales 1429

CHECKERS
Cable Protectors 404-405
Matting 944
Warning Whips 950
Wheel Chocks 1130

CHECKPOINT
Tire and Wheels 957

CHEEZ-IT
Snack Foods 1440

CHEM-TECH
Chemical Metering Pumps 2688

CHEMGLASS
Lab Supplies 639, 645, 656

CHEMSTEEL
Rotary Gear Pumps 2697

CHEMTROL
Ball Valves 2817
Fittings 2817

CHEMTRONICS
Applicators 232
Desoldering Braids 232
Dusters 232
Flux Removers 232
Lubricants and Penetrants 232
PC Board Repair Tools 232
Solder 239

CHERNE
Drain Openers 2751
Manhole Cover Hooks 1783
Test Plugs 2822-2823

CHICAGO FAUCET
Bubblers 2731
Faucets . . . 2733-2735, 2737-2744, 2747-2748
Shower Fixtures 2745
Valves 2744

CHICAGO HARDWARE
Turnbuckles 1091

CHICAGO-LATROBE
Drill and Tap Sets 2262
Drill Bits . . . 2239-2243, 2245-2246, 2250-2252
Screw Extractors 2260

CHICAGO METALLIC
Bakeware 1449

CHICAGO PNEUMATIC
Air Compressors and Vacuum Pumps 2561, 2565, 2567
Air Tools 2502-2512

CHICAGO PROTECTIVE APPAREL
Workwear 1707

CHIEF
Hydraulic Cylinders 2478
Power Units 2474

CHILL STOP'R
Air Conditioner Covers 2991

CHOREMASTER
Pressure Washers 1589

CHRISTY'S
Adhesives 2819
Pipe Sealants 2819

CHRONOMITE LABS
Water Heaters 2713

CIRCUIT-LOCK
Switches 175

CITGO PETROLEUM CORP
Automotive Chemicals 897-899
Grease 2450
Oils 894-896, 898

CLAIRE
Disinfectants 1511

CLASSIC BASEBOARD
Heaters 3090

CLAUSS
Garden Tools 1005-1006, 1008
Scissors, Shears and Snips 815

CLE-LINE
Countersinks 2262
Drill Bits 2239-2242, 2245, 2250-2252
Screw Extractors 2260
Threading 2262-2265, 2268-2269, 2275

CLEAN REMOTE
TV Remote Controls 2022

CLEANTOOLS
Cloths 908

CLEAR VISION
Windshield Washer Fluid 902

CLEARSOUNDS
Amplified Hearing Equipment 2036
Telephones 2036

CLEVELAND
Chucking Reamers 2258-2259
Dies 2262, 2276
Drill Bits 2242-2243, 2252
End Mills 2280-2283, 2285-2286, 2288-2289, 2291-2293, 2295-2296
Screw Extractors 2260
Taps 2263-2266, 2268-2272

CLEVELAND CONTROLS
Air Sensing Switches 3046

CLEVELAND FAUCET GROUP
Kitchen Equipment Replacement Parts . . . 1461

CLEVELAND RANGE
Kitchen Equipment Replacement Parts . . . 1461

CLEVELAND VIBRATOR
Vibrators 150, 152

CLMI SAFETY TRAINING
Safety Training Materials 1943

CLOROX
Cleaners/Degreasers . . . 1503-1504, 1508-1509
Disinfectants 1510-1511, 1517
Janitorial Equipment/Supplies 1504, 1510

CLOROX HEALTHCARE
Disinfectants 1512

CLOROX POOL AND SPA
Pool Chemicals 1480

CLR
Cleaners/Degreasers 1503

CMT
Router Templates/Bits 731

COASTAL WIRE COMPANY
Bale Tie Wire 1094

COBRA ELECTRONICS
CB Radios 950, 2033
Two-Way Radios 2027

COBRA SYSTEMS
Label Makers and Printers 1927

CODE 3
Automotive Lighting 972, 974-975

COFFEE MATE
Coffee Creamers 1440

COFFEE PRO
Food Service Appliances and Equipment 1439

COLDER PRODUCTS COMPANY
Tubing Fittings 2849

COLE-PARMER
Laboratory Equipment 646

COLEMAN
Air Mattresses 1471
Coolers and Beverages 1826-1827
Outdoor Grills 1459

COLLOMIX
Concrete Mixing and Preparation 893

COLSON
Casters 1205

COLUMBIAN
Clamps 835

COLUMBUS ELECTRIC
Air Switches 3046
Thermostats 3023-3024, 3028

COMBAT
Repellents and Pest Control 1023

COMET
Cleaners/Degreasers 1504, 1513

COMPX NATIONAL
Locking Systems 1963

CONAIR
Hair Dryers 1474
Irons 1475

CONBAR
Laboratory Supplies 633

CONCENTRIC
Flow Dividers 2477
Gear Pumps 2474-2475

CONCRETE SAVER
Coatings 1634

★CONDOR
Confined Space Equipment 1787
Ear Protection 1643-1646, 1648
Emergency Eyewash and Showers 1841-1842
Ergonomic Supports 1705-1706
Eye Protection . . . 1650-1652, 1662, 1665-1667
Face Protection 1639
Fall Protection Equipment . . . 1787, 1790, 1793, 1798-1800, 1802, 1805-1806
Footwear 1732, 1747
Gates 1313
Hand Protection 1669-1671, 1673-1680, 1683, 1687-1695, 1697-1704, 1710
Head Protection 1635, 1638, 1640-1642
Lockouts 1938-1939, 1945-1947, 1953
Marking and Warning Tape 1899, 1901
Matting . . . 1890-1891, 1893-1894, 1898-1899
Respirators 1758, 1774-1775
Safety Storage Cabinets 1868, 1873
Signs 1903, 1918-1922, 1925-1926
Spill Control Supplies 1845-1846, 1853, 1862
Traffic Safety Vests 1724, 1905
Water Safety Clothing and Equipment 1808
Workwear 1672, 1686, 1703, 1709, 1716, 1721, 1727, 1729-1735, 1775

CONDOR USA
Pressure Switches 288-289
Valves 288

CONDUCTIX-WAMPFLER
Cord Reels 398

CONGRESS
V-Belts 109-110

CONGRESS DRIVES
Sheaves and Pulleys 109-110

CONNECTICUT ELECTRIC
Circuit Breakers 202

CONRADER
Air Compressor Controls 2574-2575
Check Valves 2574
Safety Valves 2573, 2575

CONTICO
Tool Storage 747

CONTIGO
Cups and Mugs 1444
Water Bottles 1444

CONTINENTAL
Belt Drive Electronic Tools 96
Fittings 2766-2767
Hoses 1015, 2604-2605, 2608-2609, 2635-2636
Timing Belt Pulleys 114
Timing Belts 107
V-Belts 102-104

CONTINENTAL INDUSTRIES
Fittings 2617

CONTROL COMPANY
Clocks 1374
Counters 227
Testers 1413

CONTROL DEVICES
Air Compressors 2571, 2574-2575
Pneumatic System Components . . . 2574-2575
Valves 2573-2574

COOL ATTIC
Roof Ventilators 2968

COOL-LINE
Oil Coolers 2493

COOPER-ATKINS
Meters 591, 595
Probes 595-596
Temperature and Humidity Measuring 585-587, 591, 595, 600
Timers 582

COOPER LIGHTING
Emergency/Exit Lights 429

COPE
Cable Trays and Fittings 307

COPELAND
HVAC Compressors 3014

CORBIN
Door Closers 1991
Locksets 1982, 1988, 1996

CORDEX
Infrared Cameras 615
Wall Thickness Gauges 569

CORDPRO
Cord Reels 400

CORONA
Lawn and Garden Tools 1005-1006, 1009

CORROSIONX
Corrosion Inhibitors 2445

CORTECH
Carts/Trucks 1161
Evidence Collection 1907
Floor Cleaning Machines 1578
Furniture 1341, 1471
Security Wall Plates 328

CORTINA
Road Flares and Safety Kits 965, 1905
Signs 1915
Traffic Barricades 1908-1909, 1912

COSCO
Ink Pads 1363
Rubber Stamps 1363

COTTERMAN
Ladders 1034-1039, 1042, 1047-1049
Safety Gates 1313
Work Platforms 1044-1046, 1049

COUNCIL TOOL
Hammers and Striking Tools 1007

COX
Adhesive Applicators 2219, 2234

COXREELS
Cable/Cord Reels 396, 2526
Hose Reels 2435, 2523-2529

COZY
Heaters 3068-3069

CPI
Switches 267

CPS
Flaring/Swaging Tools 3010
Manifold Gauges 3005
Refrigerant Scales 3007
Refrigerant Service Equipment 3007
Vacuum Pumps 3007

CRACK STIX
Concrete and Asphalt Patching and Repair Compounds 1632

CRAFTLINE
Cabinets 1265

CRAMER
Chairs 1334
Step Stools 1350

CRC
Adhesives 2216
Aerosol Dust Removers 1354, 2428
Brake Conditioners 899, 962
Cleaners/Degreasers 897, 901, 908, 922, 2446-2449
Corrosion Inhibitors 907, 922, 2445
Deicers 902
Fuel Additives 896, 900
Gasket Removers 2227
Grease 899, 2450-2453
Lubricants and Penetrants 900-902, 2438-2444, 2458-2459
Mold Releases 2445
Oils 2455-2457
Parts Washer Cleaning Systems 938-939
Repellents and Pest Control 1022-1023
Sealants 2226
Smoke Detector Aerosol Testers 1882

CRES COR
Food Service Equipment 1446, 1448

CRESCENT
Sockets 759
Wiss Cutting Tools 815

CRESTWARE
Food Service Equipment 1439, 1446-1447, 1454

CROSBY
Lifting Hardware 1067, 1070-1071, 1088-1089

CROWN
Lubricants and Penetrants 2453

CROWN BOILER
Boilers 3089

CROWN PRODUCTS
Pet Waste Stations 1554

CROWN VERITY
Grills/Griddles 1459

CRYDOM
Relays 219

CRYSTAL LIGHT
Lemonade 1437

CSL
Carts/Racks 1476

CST/BERGER
Measuring Tools 879
Metal Locators 565

CUBITRON II
Abrasives 737

CUISINART
Coffee Makers 1438

CUSHMAN
Utility Vehicles 989, 1175

CUSTOM LEATHERCRAFT (CLC)
Knee Protection 1705
Tool Storage 754-757

CUTTER
Repellents and Pest Control 1022

CYALUME
Light Sticks/Stations 1906, 1923

D

D & D TECHNOLOGIES
Gate Hardware 2009

D-LINE
Cable Organizers 305
Raceway Components/Tools 305, 404

DAEWOO
Microwave Ovens 1442

DAKE
Band Saws 2349
Belt/Disc Sanders 2360
Cold Saws 736
Shop Presses 2357

DAMASCUS
Hand Protection 1813
Protective Gear 1813

DANBY
Refrigerators/Freezers 1463

DANCO
Toilet Replacement Parts 2756

DANGEROUS GOODS
Hazardous Material Packaging 1402

DANTONA
Batteries 534

DANZE
Shower Fixtures 2744

DAP
Adhesives 1361, 2228-2229, 2237
Caulks and Sealants . . . 2227, 2230-2233, 2236
Joint Compounds 1597
Patching Materials 1597, 1632-1633
Wood Repair Materials 1597

DAREX
Drill and End Mill Sharpeners 2254

DART
Food Service Disposables . . . 1431, 1433, 1436

DART CONTROLS
Motor Speed Controls 158-159
Pulse Generators 159
Tachometers 159

DASCO PRO
Chisels and Punches 822

DATAVAC
Vacuum Cleaners 1572

DAVID ROUND
Hoist Trolleys 1060

DAVIES
Knobs 2323-2324

DAVIS INSTRUMENTS
Weather Stations 583

DAWN
Degreasers 1508
Dishwashing Detergents 1515

DAYCO
Automotive Hoses 947

DAYMARK
Food Labels 1450

★DAYTON
AC Drives 153
Access Doors 3101
Air Circulators (See Fans)
Air Cleaners 3059, 3061
Air Conditioners 354, 2996
Air Curtains 2969
Air Vents 3087
Appliance/Tool Motors 36
Arbor Presses 2357
Axial Fans 2926
Baseboard Heaters 3069, 3072
Batteries 532
Beam Clamps 1061
Bearings 133, 136, 140, 143
Blade Welders 2351
Blower Wheels 2988
Blowers 2972-2987, 2989
Brakes 95
Bushings 143
Cable/Hose Carriers 1093
Cables 1084, 1087-1089
Ceiling Fans 2922, 2943
Centrifugal Pumps 2630, 2633, 2638-2639, 2642-2643, 2645-2651, 2691
Chain Detachers 117
Chain/Links 116-117
Chains 1071-1073, 1107
Check Valves 2656
Clamps 1065
Condensate Removal Pumps 2662
Contact Blocks 170, 240, 249, 251
Contactors 170, 173
Control Stations 240, 249-250, 275
Counters 227
Couplings 125, 128
Curb Caps 2940
Dampers 2938, 2943, 2945, 3100-3101
DC Motors 27, 33
Dehumidifiers 3062
Discharge Caps 2940
Disconnect Switches 176, 3075, 3077
Dollies 1168, 1190, 1192-1193
Drain Cleaners 3010
Drill Drifts 2315
Drill Presses 2345
Drum Handlers 1143, 1145-1146
Drum Pumps 2676-2677
Drum Switches 167
Duct Fans 2947
Dust Collectors 2363
Electric Heaters 3068-3071, 3074-3077
Engine-Driven Pumps . . . 2632-2633, 2637, 2696
Evaporative Coolers 2998, 3000-3001
Exhaust Fans 2928-2934, 2954-2955, 2957, 2967-2968
Exhaust/Intake Ventilators 2931, 2935, 2945, 2952, 2955-2956
Exhaust Shutters 2936-2937, 2967
Eyeshields 2359
Fans 2915-2926, 2934-2935, 2940-2941, 2943, 2950-2951, 2967, 3010, 3077
Farm-Duty Motors 34-35
Filters 1574, 1576, 2671, 2694, 2955, 3076
Floor Machines 1579-1580, 1582
Flowmeters 2682
Forklifts and Forklift Attachments 1176-1177
Fountain Lighting Systems 2640
Fume Exhausters 3060
Gas Heaters 3082, 3084, 3086-3087
Gearmotors 68-76, 78-86
General Purpose AC Motors 8-16, 19
Generators 981
Grinder Pumps 2624-2625, 2655
Grinders 723, 2359-2361
Hazardous Location Fans 2919, 2931
Heat Slingers 2983
Heater Brackets 3077, 3087
Heater Mounting Frames 3073-3074, 3076
Heater Transformers 3075
Heater Trim Kits 3075
Heater Vents 2949, 3086-3087
Hex Hubs 2950
Hoists 1050, 1054-1058, 1060
Hooks 1071, 1084
Hoppers 1158
Humidistats 3028
HVAC Gages 3005
HVAC Motors 38-41, 43, 45, 48, 50-52, 54-55, 57-58, 60-64
Hydronic Heater Diffusers 3089
Hydronic Heater Guards 3089
Indicator Lights 248
Infrared Heaters 3087
Joysticks 251
Kitchen Exhaust Range Hoods 2955
Lifting Equipment 1067
Limit Switches 268, 270-271
Linear Actuators 146
Louvers 2937, 2939, 3076, 3088
Machine Stands 2355, 2359
Material Lifts 1174, 1179-1183
Metal Forming Machines 2355-2356
Milling Machines 2344, 2346
Mixers 1141
Motor Accessories 43, 51, 65-66, 170
Motor Controls 160
Oil-Fired Heaters 3083
Overload Relays 170
Pad Drivers 1579
Pallet Tilters 1173-1174, 1178, 1181
Pallet Trucks 1173-1174
Photo Controls 415
Plunger Pumps 2693
Positive Displacement Pump Replacement Parts 2665
Positive Displacement Pumps 2630, 2663, 2665, 2667, 2669, 2671-2677, 2693-2697
Potentiometers 251
Power Supplies 210
Pressure Switches 288
Pressure Washers 1587-1588
Pulley Blocks 1084
Pump Controls/Accessories 2628-2629, 2633, 2642, 2655, 2671, 2690
Pump Motors 24, 26
Pump Replacement Parts 2650-2652, 2663, 2665, 2667
Push Buttons/Selector Switches 240, 251, 257, 275
Ratchet Pullers 1059
Refrigerant Hoses 3006
Refrigerant Recovery Machines 3007
Relay Sockets 216
Relays 215-217, 219, 221-223, 3035
Relief Valves 2696
Rollers and Skates 1193, 2693
Roof Curbs 2962-2963
Roof Ventilators 2952-2961, 2964-2966
Rotary Surface Cleaners 1593
Safety Alarms and Warnings 279
Sanders 2361-2362
Saws 733, 736, 2349-2350
Sensors 221
Shaft Collars 122-124
Shear and Roll Machinery 2355-2356
Sheet Metal Notchers 2356
Shutter Motors 2936, 2938-2939
Sleeve and Thimble Kits 1088
Slings 1074, 1076, 1079
Solenoid Coils 2873
Solenoid Valves 2872-2873

Speed Controls 27, 158
Speed Reducers 87-88, 91-94
Stabilizer Jacks 1126
Steel Drums 2363
Supply Fans 2932, 2935
Thermocouples 231
Thermostats 2968, 3021-3025, 3028, 3071-3072, 3075, 3077
Timing Belts 106
Towing Straps 1084
Transformers 205-206, 208
Trucks 1143, 1146, 1163, 1165-1166, 1168, 1184-1190
Tube Heater Accessories 3087
Tubeaxial Fans 2940-2941
Tubing Benders 2356
Turbine Pumps 2652
Unit Heater Replacement Parts 3086
Unit Heaters 3077, 3086, 3088-3089
V-Belts 97-101, 105
Vacuum Cleaners 1563-1564, 1566-1568, 1573-1576
Vacuum Motors 37
Vacuum Pumps 2695, 3007
Ventilation Controls 3024
Ventilators 2945, 2954, 2957, 2959, 2961-2962, 2968
Venturi Fan Frames 2930
Vibrators 148-150, 152
Vises 2346
Wall Collars 2934
Wall Heaters 3073-3074
Wall Registers 3076
Wall Ventilators 2954-2955
Washdown Motors 31-33
Water System Pumps . . . 2619-2620, 2622-2623, 2625-2627, 2630-2631, 2640-2641, 2650, 2653-2655, 2690-2692, 2701
Water Tanks 2656, 2695
Weather Hoods 2934
Winches 1085
Work Platforms 1176
Work Stands 2351

D.B. SMITH
Lawn and Garden Equipment 1001

DBI-SALA
Confined Space Equipment 1786-1787
Fall Protection Equipment 1787-1788, 1790, 1792, 1794-1795, 1801, 1804
Guardrails 1789

DEARBORN BRASS
Plumbing Replacement Parts 2757

DEB
Dispensers 1498
Personal Care Products 1498

DECADE
Containers 1301

DEFELSKO
Coating Thickness Gages 569

DEFENDER
Hand and Portable Lights 523

DEFIBTECH
Defibrillators (AEDs) 1838

DELHI
Blowers 2979

DELTA CHAMPION
Liquid Transfer Tanks 753

DELTA FAUCET
Faucets 2733, 2737-2742, 2749
Shower Fixtures 2745

★DEM-KOTE
Paints 1607

DEMAG
Hoists 1053

DENIOS
Storage Lockers/Stations 1873

DEROYAL
Paint Equipment and Supplies 1622
Workwear 1623

DESCO
Antistatic Products 561

DESIGNOVATIONS
Signs 1916

DESTACO
Clamps 2319-2320, 2541

DETEX
Exit Devices 1996

DEVCON
Adhesives 2218
Epoxy 2217
Epoxy Mixing Nozzles/Applicators 2219
Primers 2223

DEVILBISS
Spray Guns 1625-1627

DEWALT
Abrasive Discs 737, 2377, 2384
Abrasive Wheels 737, 2380-2381, 2384, 2388
Air Compressors 2559-2560
Blowers 988
Chisels 712-715, 822
Cordless Nailers 2497
Cordless Tools 665-672, 717, 988, 1004, 1563, 1573
Core Bits 713-715
Cut-Off Tools 721-722, 729
Cut-Off Wheels 2384, 2386-2387
Cutting Tools 808-809
Demolition Hammers 710, 713, 715
Diamond Blades 720
Drill and Impact Bits 698-699, 704, 711-714, 2265
Drills 696-697, 710
Dust Extractors 722, 1566
Eye Protection 1659, 1668
Finishing Tools 669, 723
Grease Guns 932
Grinders and Sanders 721-723, 725, 1566, 2359
Grinding Wheels 737, 2384, 2386-2387
Hammer Drill Bits 709, 711, 713-715
Hammer Drills 710, 1566
Heat Guns 738
Impact Wrenches 697
Knee Pads 1705
Leveling Tools 880-881
Measuring Lasers 880
Nibblers 726
Planers 725
Pneumatic Tools 2497
Pressure Washers 1589
Rotary Hammers 710, 712-713
Routers 729, 731
Sander/Polishers 721-722, 725
Saw Blades 720-721, 734-735
Saws 706-708, 717, 720, 726, 729-730, 732-736, 886, 1004
Screwdrivers 696
Shears 726, 816
Staplers/Nail Guns 890
Tool Storage 746-747, 755-756
Trimmers 987, 1004
Vacuum Cleaners 1566

DEWALT ENGINEERED BY POWERS
Anchor Screws . . . 2147, 2162, 2164, 2166-2168
Anchors 2166, 2168, 2170
Drill Bits 2166
Rod Hangers 2147

DEWITT
Fences 1019
Nursery and Landscaping Supplies 1003, 1012

DEXTER-RUSSELL
Knives and Utensils 1453

DIABLO
Saw Blades 721, 727-728, 734-735

DIAL
Personal Care Products 1498

DIAMOND CRYSTAL
Water Softener Salt 2702

DIAMOND GROUP PRODUCTS
Welders 2419

DIAMOND MACHINING TECHNOLOGY
Sharpening Stones 813

DIAMOND VANTAGE
Abrasive Wheels 737

DICKE SAFETY
Traffic Signs 1915

DICKIES
Workwear 1720-1723

DICKSON
Chart Paper 599
Chart Recorders 598
Data Loggers 580, 593
Probe Dust Filters 598

DIESEL POWER
Diesel Fuel Additives 896

DIGITAL ALLY
Law Enforcement Equipment 2048

DINEX CARLISLE
Dinnerware 1445
Food Service Trays 1445
Induction Chargers 1445
Meal Delivery Carts 1445

DIRECT METALS
Aluminum 2192-2193
Plastic 2192
Stainless Steel 2192-2193
Steel 2192-2193

DIRECTORR
Vacuum Pumps 2581

DISC-LOCK
Lock Washers 2092
Locknuts 2083

DIVERSEY
Flashlights 523
Janitorial Equipment/Supplies 1502-1504, 1508-1509, 1511-1514, 1517-1518, 1520-1521, 1523-1524, 1577
Laundry Supplies 1516
Odor Control and Drain Maintainers 1505, 1520-1521

DIVERSIFIED FASTENING SYSTEMS
Drill Bits 2161

DIVERSIFIED WOODCRAFTS
Laboratory Furniture 643

DIVERSITECH
Condensate Pumps 3092
Condenser Mounts 3094
Drain Pans 3092
Electrical Connectors 3094
Fin Combs 3010
Furnace Mounting Hardware 3094
Heat Pump Accessories 3094
HVAC Chemicals 3012
Pump Switches 3092

DIXIE
Disposable Cutlery and Dispensers 1435
Food Service Disposables 1432-1434, 1436, 1826

DIXON
Fire Hoses and Hydrant Equipment 1819, 2766-2767
Fittings 2522, 2766-2767

DIXON TICONDEROGA
Office Supplies 1364-1365, 1614

DLAB
Bottletop Dispensers 653
Laboratory Equipment 646
Pipetters 658-659

DMI
Ergonomics 2746

DMS
Emergency Preparedness Equipment/Supplies 1905
Workwear 1905

DOGIPOT
Pet Waste Stations 1554

DOLPHIN
Connectors 351, 389
Tools 389, 411

DOMINATOR
Wrecking and Pry Bar Tools 823

DOMINION FAUCETS
Faucets 2737-2740

DOMINO
Coffee Creamers and Sugar 1440

DOMNICK HUNTER
Oil/Water Separators 2571

DORMONT
Gas Connectors 2717

DOW AGROSCIENCES
Soil Treatment and Weed Control 1003

DOW CORNING
Adhesives and Sealants 2226, 2230, 2232-2233

DOWNY
Laundry Supplies 1516

DPI
Ladders 1047

DQE
Emergency Equipment 1817, 1824

DRÄGER
Gas Detectors 1781-1782

DRAIN-ALL
Pneumatic System Components 2573

DRAMM
Hoses and Sprinkler Systems 1014

DRANETZ
Power Quality Analyzers 552

DRANO
Drain Opener 1504

DREMEL
3D Printers 664
Engravers 724
Oscillating Tools 724
Rotary Tools 724

DRI-EAZ
Air Cleaners 3060
Blowers and Fans 2989
Cleaners 1566
Dehumidifiers 3062
Fan and Air Cleaner Filters 2989, 3062

DRILL DOCTOR
Drill Sharpeners 2254

DRIPLESS
Caulk Guns 2234

DROSSBACH
Corrugated Tubing 407

DSR
Battery Chargers/Testers 925-928

DUAL-LITE
(See Hubbell/Dual-Lite)

DUCTMATE
Condenser Mounting Brackets 3094

DUE NORTH
Footwear 1747

DUFF-NORTON
Linear Actuators 146-147
Rotary Joints 2846

DUMOND
Cleaners and Paint Removers 1613

DUNLOP
Footwear 1738, 1741-1742, 1744-1746

DUO-FAST
Pneumatic Fasteners 2499

DUOSEAL
Vacuum Pumps 2581-2582

DUPLI-COLOR
Automotive Paints/Coatings. 907

DUPONT
Filtration Systems 2703
Footwear 1738
Lubricants 2453
Tape 1389
Workwear 1672, 1714, 1735-1740

DURABILT
Containers and Totes 1296

DURA-BLOK
Pipe Supports 2825

DURAC
Hydrometers 629

DURACELL
Batteries 532-534

DURA-INK
Markers 1615

DURHAM
Bins and Storage Containers 1302, 1307
Cabinets. 1266-1269, 1277-1278, 1303, 1305-1307, 1326, 1873
Carts and Trucks 1157, 1164, 1166, 1168, 1330
Racks. 1239, 1306-1307, 1350
Shop Desks 1327
Tables 1324
Workbenches. 1322, 1325

DURO
Bags. 1411
Calibration Labels 574
Gauges. 576

DUST-OFF
Office and Computer Cleaners. 1354

DUSTLESS TECHNOLOGIES
Vacuum Cleaners. 1566-1567

DUTTON LAINSON
Winches. 1085

DWYER
Air Movement Testing 571, 621
Magnehelic Adapters. 570
Nonelectrical Properties Testing 572, 2677
Pressure and Vacuum Measuring 570-573, 3046
Pressure Switches. 570
Process Monitoring 570
Sight Glasses. 2913
Temperature and Humidity Measuring 588

DYKEM
Layout Fluid Removers 2427
Layout Fluids 2427
Markers 1614-1615
Staining Fluids. 2427

DYMO
Label Machines 372, 1379
Labels 372, 1379, 1406

DYNA BEADS
Balancing Beads 952

DYNA-GLO
Heaters 3082

DYNA-LIFT
Hydraulic Lift Kits 1319

DYNABRADE
Air Tools. 2506-2511
Downdraft Tables. 2363
Finishing Tools. 723
Fittings. 2522

DYNAGRIP
Sealants. 2229

DYNALON
Laboratory Supplies. . . 633, 645, 653-656, 658

DYNAQUIP
Ball Valves 2868, 2871
Pneumatic Valves 2572, 2871

DYNASONICS
Ultrasonic Flowmeters. 2686

DYNATEX
Adhesives 905

DYNATRON
Automotive Repair Materials 905

DYSON
Air Cleaners. 3059
Restroom Equipment. 1493

E

E. JAMES
Foam 2199
Rubber. 2201-2205, 2207

E. L. FOUST
Air Cleaners. 3059

E-Z LOK
Thread Inserts 2143
Thread Repair Kits. 2137

EAGLE BELTING
Round Belts and O-Rings. 108

EAGLE GROUP
Sinks 2728-2730

EAGLE MANUFACTURING
Drum Management Systems . . . 1861, 1864-1866
Funnels 1874
Gas Cans 1875
Ramps 1872
Receptacles and Containers 1552
Safety Storage. 1836, 1869, 1871, 1874-1876
Safety Storage Cabinets 1869, 1871-1872
Spill Containment Supplies 1857, 1861, 1863, 1865, 1867
Traffic Barricades 1910

EAGLE ONE
Automotive Detailing Supplies. 909-910

EAGLE THERMOPLASTICS
Laboratory Supplies. 645

E.A.R. BY 3M
Ear Protection 1645

EARPHONE CONNECTION
Two Way Radios and Accessories 2032

EARTH FRIENDLY PRODUCTS
Air Fresheners. 1524
Cleaners/Degreasers. 1502-1503, 1513, 1515, 1518
Janitorial Equipment/Supplies 1502-1504, 1513, 1515, 1517, 1519
Laundry Supplies. 1516

EASY-OFF
Cleaners/Degreasers. 1514

EASY PAKS
Cleaners. 1523

EATON
AC Drives. 154, 157
Air Brake Components. 962
Circuit Breakers. 193-195, 201
Contact Blocks. 253
Contactors 169, 171, 173-174
Counters 226-227
DC Power Supplies 210
Encoders 226
Hose Fittings 2483, 2485-2488
Hoses. 2483, 2606-2608
Hydraulic Couplers. 2489
Indicator Lights 241, 257
Logic Controllers 224
Motor Controls. 154, 164-165, 168-169, 171-172, 174, 218
Motor Starters 164-165
Push Buttons 241, 252-253, 275
Relays 223
Safety Alarms and Warnings 279
Sensors 282, 284
Surge Protection Devices 203
Switches 220, 241, 252-253, 257, 261-262, 266, 277, 3094
Tubing Fittings. 962
Valves 2913
Variable Frequency Drives. 157

EATON AEROQUIP
Crimping Tools. 2483
Hose Fittings 2482-2483, 2485-2486, 2488
Hoses. 2481-2483, 2485
Saws 735-736

EATON VICKERS
Hydraulic Power Units 2472
Hydraulic Valves 2476

EAZYPOWER
Drill and Impact Bits 703

EBM-PAPST
Axial Fans 2927

ECCO
Camera Systems 949
Automotive Lights/Alarms . . . 966-969, 972-975

ECHO
Automotive Fluids 900
Cutting and Pruning Tools 1004-1005
Lawn Equipment . . . 987-988, 1004-1005, 1008
Lubricants and Penetrants. 2441

ECLECTIC
Adhesives 2229

ECOBAILER
Sampling Supplies. 633

ECONOLINE
Abrasive Blasters. 2402-2404

ECOPURE
Blankets. 1467

ECOTRACTION
Traction Control Materials 994

EDGE EYEWEAR
Eye Protection 1661, 1663

EDSAL
Racks. 1232-1234, 1239, 1307
Shelving. 1232-1235, 1237, 1239
Tables 1324
Workbenches. 1317-1319, 1322, 1324

EDWARDS
Hydraulic Presses 2357
Metal Fabrication Accessories. 2356, 2358

EDWARDS SIGNALING
Locking Systems 1976
Safety Alarms/Warnings 1886
Security Alarms/Warnings . . . 2040, 2051-2052
Transformers 205

EEMAX
Water Heaters 2712-2714, 2732

EGO POWER PLUS
Lawn and Garden Equipment . . . 986-988, 1004

EIKO
Stage/Studio/TV Lamps 488, 495, 500-502

EISCO SCIENTIFIC
Laboratory Equipment 651

EKLIND
Hex Keys 805-807

ELDON JAMES
Tubing 2613, 2615-2616

ELECTRIX
Task Lights. 515-517

ELECTROLUX
Washers and Dryers 1466

ELESA
Leveling Mounts 1224

ELKAY
Bottle Filling Stations. 2719
Bubblers 2731
Drinking Fountains 2719-2720
Sinks 2730-2731

ELKHART BRASS
Fire Hose Nozzles and Hydrant Equipment 1819, 2767

ELMA
Ultrasonic Cleaners 642

ELMER'S
Adhesives 1361

ELMO RIETSCHLE
Vacuum Pumps 2581

ELVEX
Eye Protection 1663
Workwear 1721

EM & S
HVAC Motors 39-40, 61

EMBRACO
Compressors 3014

EMERALD
Snack Foods 1441

EMERSON
Thermostats. 3020, 3022-3026, 3028

EMERSON CLIMATE TECHNOLOGIES
Thermostats. 3020-3021

EMHART TEKNOLOGIES
Rivet Tools 2506

EMI
Traffic Safety Equipment 1906

EMPIRE
Roof Ventilators 2968

ENCORE
Faucets 2737
Prerinse Assemblies 2740
Shower Fixtures. 2745, 2759

ENCORE PACKAGING
Packaging Supplies. 1417, 1422
Strapping Supplies 1420

ENCORE PLASTICS
Paint Equipment and Supplies. 1621

ENDECOTTS
Sieves and Sieve Shakers 649

ENDOT
Pipe and Tubing 2617

ENDURA
Drain Components. 2732

ENERGIZER
Batteries 532-534
Battery Chargers 533
Flashlights 523-524, 526-528, 531
Lanterns. 530
Spotlights. 530

ENERPAC
Gauges. 2471
Hydraulic Cylinders 2468-2469
Hydraulic Hoses/Couplers . . . 2481, 2486, 2489
Hydraulic Maintenance Sets 2469
Hydraulic Oils. 2468
Hydraulic Presses 2470
Hydraulic Pumps 2466-2469, 2472
Hydraulic Rams 2468
Hydraulic Torque Wrenches 2472
Hydraulic Valves 2471
Lifters/Pullers 2468-2469
Needle Valves 2471
Nut Splitters. 2469
Pipe Benders 2469
Punches. 2471
Spreaders/Wedges 2469

ENFORCER PRODUCTS
Repellents and Pest Control 1023
Soil Treatment and Weed Control. 1003

ENM
Counters 227
Hour Meters 228

ENMOTION
Restroom Equipment and Supplies 1485, 1498, 1555

ENPAC
Drum Management Systems 1861, 1864
Spill Containment Supplies 1858, 1860, 1865-1867

EP MINERALS
Spill Containment Supplies 1845

EPOXYSHIELD
Coatings 1634

EPPENDORF
Pipetters 659

EPSON
Label Makers and Printers 373

EQUAL
Sweeteners 1440

ER TAPE
Silicone Tape 2838

ERA
Laundry Detergents 1516

ERB
Head Protection 1637-1638

EREM
Pliers and Cutting Tools 844
Tweezers 844

ERGODYNE
Cooling Products 1641, 1828
Ergonomic Supports 1706
Eye Protection 1659
Fall Protection Equipment 860
Footwear 1747
Gear/Responder Bags 1820
Hand Protection 1701
Head Protection 1638, 1640-1641, 1714
Hydration Packs 1828
Tethers 860
Tool Storage 757, 860
Tool Lanyards/Loops 860
Workwear 1727

ERGOMATES
Footwear 1744, 1747

ERICO
Ground Rods 323
Surge Protection Devices 204

ERICSON
Plugs and Connectors 339

ERIEZ
Lifting Magnets 1067

ESAB
Welders 2418-2421

ESAB ALL-STATE
Electrodes 2417
Solder 239
Welding Rods 2432

ESCHENBACH OPTIK GMBH
Magnifiers 2340

ESS
Laboratory Supplies 657

ESSICK AIR PRODUCTS
Evaporative Coolers 3000-3001

ETEMP
Temperature Controls 3019

ETERNABOND
Roof Repair Products 2963

ETON
Weather Radios/Shortwave Radios 2033

EVAC CHAIR
Rescue Equipment 1821

EVEREST
Lubricants 894-897
Refrigerated Food Prep Tables 1462
Refrigerators/Freezers 1462

EVERLIGHTS
Recycling Kits 512, 533

EVOLIS
ID Card Printers 1970

EXAIR
Atomizing Nozzles 1629
Pneumatic System Components . . . 2582-2583
Pneumatic Tools 2582

EXPO
Dry-Erase Board Cleaners 1367
Markers 1367

EXTECH
Air Movement Testing 571, 620-621
Batteries 533
Data Recording . . . . . 552, 568, ... 584, 592-594, 618, 624
Electrical Power Testing . . . . . 538-539, ... 542-543, 545, 547, 549, 552-555, 564
Indoor Air Quality Testing . . . 584, 617-618, 622
Lab Instruments 626
Nonelectrical Properties Testing . . . 543, 566-569, 582, 600, 616-617, 624-625
Photoelectric/Proximity Sensors 567
Power Supplies 560
Pressure and Vacuum Measuring 572
Probes 596
Restoration/Inspection Kits 600
Temperature and Humidity Measuring . . . 583, 585, 587, 591-592, 594-595, 601-603
Water Testing 627-628, 630-631

EXTRACT-ALL
Air Cleaners and Filters 3060

EZ-FLO
Faucets 2737-2738
Pumps 2620

EZ WELD
Pipe Sealants 2819

F

FABORY
Anchors 2167, 2170
Nuts 2056, 2076, 2078
O-Rings and O-Ring Kits 2175-2176
Pins 2152-2153
Rivets 2131-2135
Screws 2101, 2107, 2123, 2167

FABULOSO
Cleaners/Degreasers 1513

FACOM
Hand Tools 790

FAG
Bearings 140

FAIRBANKS
Trucks 1165

FALCON
Door Closers and Openers 1993, 1995
Locksets 1983
Self Defense Devices 1886

FALLTECH
Fall Protection Equipment . . . 1791, 1796, 1802

FAMOUS AMOS
Snack Foods 1441

FANTASTIK
Cleaners/Degreasers 1513

FANTECH
Dehumidifiers 3062
Duct Fans 2946
Exhaust Fans 2948
Fans 2946-2949

FASCO
HVAC Motors 40, 42
Induced Draft Blowers 3104

FAST LOCK
Pallets 1135

FEBCO
Backflow Preventers 2906

FEBREZE
Deodorizers 1524

FEDERAL SIGNAL
Automotive Alarms 966
Automotive Lighting 972-976, 979, 1888
Camera Systems 949
Fire Alarms 1885
Megaphones 2037
Phone Ringers 1885
Signaling Devices . . . 966, 972, 1885-1886, 1888

FEIN
Cut-Off Wheels 734
Cutting Tools 726
Drills 740
Grinders 2360
Polisher/Sanders 725
Saws 729, 734-736
Sheet Metal Tools 726
Vacuum Cleaners 1566

FELCO
Cutting Tools 1089

FELLOWES
Laminating/Binding Supplies 1380

FENIX LIGHTING
Flashlights 524, 527-528, 531

FENNER DRIVES
Belt Welding Kits 108
Chain Pullers 117
Idlers 120-121
Sheaves and Pulleys 111
Tensioners 121
V-Belts, PowerTwist 96

FERNCO
Pipe Fittings 2821
Pipe Repair Materials 2821
Toilet Repair Parts 2757

FERNDALE MACHINERY
Machine Guards 2363

FERNO
Rescue Equipment 1821-1822

FERRAZ SHAWMUT
Fuses 177-180, 183-184

FIAMM
Horns 966

FIAT
Shower Floors 2746
Sinks 2725, 2729

FIBERFIX
Tape 2821

FIBERGRATE
Treads and Grating 2194-2197

FIELD KING
Sprayers 1000

FILL-RITE
Drum/Barrel Pumps 2677
Flowmeters 2670
Fuel Nozzles/Hoses 2671
Fuel Transfer Pumps 2670-2671
Oil Pumps 2672

FIMCO
Sprayers/Spreaders 996, 1002

FINAL CHARGE
Antifreeze/Coolants 903

FINISH
Dishwashing Detergents 1515

FINISH 1ST
Abrasives 737, 911

FINISH THOMPSON
Chemical Transfer Pumps 2649
Drum Pumps 2673-2675

FINNERAN
Laboratory Supplies 660

FIRE-DEX
Fire Boots 1816
Fire Helmets/Hoods 1815

FIRE KING
Cabinets 1344

FIREADE
Fire Extinguishers 1879

FIREX
Smoke Detectors 1881

FIRST AID ONLY
EMT and Rescue Supplies 1831
First Aid Kits/Supplies 1820, 1829-1837

FIRST ALERT
Carbon Monoxide Alarms and Smoke Detectors 1881-1882
Fire Extinguishers 1878
Weather Radios 2033

FISCHER PAPER PRODUCTS
Concession Supplies 1458

FISHER
Detectors and Scanners 2044

FISKARS
Lawn and Garden Tools 999, 1005-1007
Shears and Snips 814-816
Striking Tools 1007

FIX-A-FLAT
Tire Inflators 955

FLAMBEAU
Parts Organizers/Tool Boxes 1302-1305
Repellents and Pest Control 1019
Tool Storage 747

FLAME ENGINEERING
Torches 1003

FLAMEFIGHTER
Fire Hand Tools/Sprayers 1880

FLAREALERT
Traffic Safety Equipment 1906

FLEET CHARGE
Antifreeze 903

FLEX
Saws 717

FLEXCART
Tool Storage 744

FLEXCO
Conveyor Belt Lacing 1115

FLEXCON
Hydronic Expansion Tanks 2661
Water Heater Expansion Tanks 2717

FLEXIDUCT
Extension Cords 401

FLEXITALLIC
Gaskets 2841

FLEXKRETE
Concrete Repair Materials 1632-1633

FLEXON
Hoses 1015

FLEXTECH
Hoses 947

FLINT & WALLING
Motors 2654
Pumps 2619, 2650, 2652-2653

FLIR
Borescopes 616
Electrical Power Testing 538-539, 542, 545, 607
Infrared Windows 609
Nonelectrical Properties Testing 600
Temperature and Humidity Measuring 596, 605, 607-608
Thermal Imaging 601-602, 605-609

FLITZ
Automotive Detailing Supplies. 910

FLOJET
Pumps 2668-2669, 2691

FLOMEC
Flowmeters 2682-2683
Pump Controls 2682

FLORSHEIM
Footwear 1752

FLOTEC
Pumps 2626

FLOWLINE
Level Transmitters 2679, 2681
Pump Controls 2629, 2680-2681

FLOWSERVE
Pump Shaft Seals 2701

FLOWTRON
Repellents and Pest Control 1021

FLUID FILM
Lubricants 901, 2445

FLUID-O-TECH
Pumps 2698

FLUIDMASTER
Toilet Repair Parts 2756-2757

FLUKE
Calibrators 562-563, 597, 604
Data Recording 551, 562-563
Distance Meters 604, 878
Electrical Power Testing . . . . . 536-537, . . .540-541, 546, 548, 550-551, 556-558, 562
Electronic/Bench Testing 558
Indoor Air Quality Testing 619
Inspection Flashlights 3009
Instrument Cases and Holsters 537, 546, 548, 557, 604
Nonelectrical Properties Testing 557-558, 567, 625
Pressure and Vacuum Measuring 573, 619
Probes 540, 548, 550, 558, 597
Process Monitoring 548, 563
Temperature and Humidity Measuring 548, 597, 603-604, 610-614, 619
Test Kits 557, 563
Test Leads 537, 546, 548, 550

FLUKE NETWORKS
Cable Tracers 362
Cablemeter Cable Sets 362-363
Fiber-Optic Meters 363
LAN Testers 363
Voice/Data Tools and Test Equipment 362-366

FLUSHMATE
Toilet Repair Parts 2756

FOLDING GUARD
Wire Partitions 1134, 1314-1315

FOLGERS
Coffee 1437

FOLLETT ICE
Ice Machines 1460

FORANE
Refrigerants 3013

FOREVERBOLT
Screws 2069
Washers 2091

FORMULA 409
Cleaners/Degreasers 1508, 1510

FORMULA SHELL
Lubricants 894-895

FOSTER
Couplers 2522

FOSTORIA
Electric Heaters 3070-3071, 3079-3081
Lamps 3081

FOUNDATIONS
Baby Changing Stations 1495

FOXFURY
Jobsite Lighting 520

FOXX LIFE SCIENCES
Laboratory Supplies 661

FRANKLIN BRASS
Bathroom Hardware 2746

FRANKLIN ELECTRIC
Pump Motors 2654
Pumps 2655

FRESH WAVE IAQ
Odor Eliminators 1506

FREUD
Router Bits 731, 2297

FRIEDRICH
Air Conditioners 2990-2996
Dehumidifiers 3062
Drain Kits 2992-2993
Ductless Split Systems 2994-2995
Heat Pumps 2993, 2995
Power Cords 2993
Thermostats 2993
Wall Sleeves 2992-2993

FRIGIDAIRE
Air Conditioners 2991-2992, 2994-2996
Dishwashers 1464-1465
Ovens/Ranges 401, 1442, 1465
Refrigerators/Freezers 1463-1465
Washers/Dryers 1466

FROMM
Packaging and Shipping 1422

FROST KING
Air Conditioner Covers 2991
Air Conditioner Mounting Hardware 2990
Pipe Wrap 2838
Weatherstrips/Weatherseals 1999, 2837-2838

FROSTGUARD
Heating Cables 3067

FROTH-PAK
Sealants 2236

FRUIT OF THE LOOM
Socks 1757

FSI NORTH AMERICA
Decontamination Equipment/Supplies . . . 1824
Emergency Response Equipment/Shelters 1822-1823

FUJI
AC Drives 157
Coolant Pumps 2692
Regenerative Blowers 2584
Relief Valves 2584

FULHAM
Ballasts 473-475

FULHAM FIREHORSE
Emergency/Exit Lights 423, 427

FULL FORCE
Antifreeze/Coolants 903

FULTON
Trailer Accessories 959-960

FUNCTIONAL DEVICES
Relays 220-221
Transformers 205

FUNNEL KING
Funnels 922, 930
Liquid Measures 930
Oil Drip Pans 931

G

G. W. SCHULTZ TOOL
Chamfer Mills 2296

GAI-TRONICS
Telephones 2035

GAIN
Detergents 1516

GARAGE BOSS
Safety Storage 1874

GARANT
Ice/Snow Removal Tools 993

GARDNER BENDER
Cable Installation Tools 847, 850, 2440
Cable Organizers 400
Caddies/Carts 1167

GARLAND MANUFACTURING
Kitchen Equipment Replacement Parts . . . 1461

GARLOCK
Gaskets 2839-2841

GARMIN
Navigation Systems 949

GARRETT
Metal Detectors 2044

GASCO
Calibration Gas 1782

GAST
Air Compressors/Vacuum Pumps . . . 2577-2581

GASTON MILLE
Footwear 1746

GATES
Automotive Supplies 947
Hoses 918
Metric V-Belts 105
Round Belts 108

GATORADE
Beverage Coolers 1825
Dispenser Racks 1825
Sports Drinks/Drink Mixes 1825

GBC
Office Equipment 1360, 1380

GE
Air Conditioners 2992
Caulks and Sealants 2230-2232
Float Switches 2629
Outlet Strips 403
Plug Adapters 400
Signal Sounders 1886

GE CURRENT
Ballasts 471-475, 477-478
Indoor LED Fixtures 433, 471
Lamps and Bulbs 480-502, 505-510
Transformers 471

GENERAL ELECTRIC
Circuit Breakers 196-198
Contactors 162-163, 171-172
Contacts/Contact Blocks 162-163, 171-172, 247, 257
Electrical Enclosures 163, 248
Electrical Panels 197-198
Motor Starters 160, 162
Pilot Lights 247
Pump Controls 2655
Push Buttons 247, 257, 275
Relays 162, 171-172
Surge Protection Devices 402
Switches 172, 247, 257
Uninterruptible Power Supplies (UPS) 214

GENERAL ELECTRIC LIGHTING
HID Fixtures 458
Indoor LED Fixtures . . . . . 430-433, 436, ... 438, 443, 447, 453, 455, 458-459
Outdoor Area Fixtures 456

GEARWRENCH
Automotive Tools 914, 917, 919-920, 922
Suspension and Drive Tools 916
Tap and Die Sets 2265
Wrenches 2276

GEDORE
Benders, Cutters, and Reamers 869, 871
Torque Tools 783-784, 786, 867
Wrenches 796, 867

GEMS SENSORS
Flowmeters 2683

GEMTOR
Fall Protection Equipment 1807

GENERAC
Cutting and Pruning Tools 987
Generators 982-984

GENERAL
Measuring and Layout Tools 2325-2326, 2343

GENERAL BANDAGES
First Aid Supplies 1673, 1830

GENERAL CABLE
Wire and Cable . . . 344-347, 349-350, 352, 357

GENERAL LABORATORY PRODUCTS
Culture Media 663

GENERAL POWER INDUSTRIAL
Tire and Wheel Supplies 962

GENERAL TOOLS
Borescopes 616
Data Loggers 593
Drill Bit Sharpeners 2254
Gas Detectors 622
Gauges 571
Inspection and Retrieval Tools 824, 844
Knives 810
Measuring and Layout Tools 884
Meters 571, 594, 600
Moisture Meters 600
Plumbing Tools 870-871
Screwdrivers 800
Stopwatches 582
Thermometers 585-586, 602
Trammel Sets 884
Tubing Benders 868
Welding Links 2424
Wrenches 871, 2275

GENIE
Laboratory Equipment 647-648
Material Lifts 1180, 1183
Personnel Lifts 1032

GENOVA
Fittings 2810
Pipes 2812

GENTEQ
ECM Motors 48
HVAC Motors 49

GENUINE GRIP
Footwear 1755

GEOCEL
Caulk 1632, 2230

GEORGIA-PACIFIC
Dispensers 1485, 1498
Paper Products . . . 661, 1485-1492, 1494, 1537
Personal Care Products 1498
Restroom Equipment . . . . . 1485-1489, ... 1491, 1494, 1498

GERBER
Cutting Tools 812-814, 1007
Multitools 813-814
Shovels 997

GERBER PLUMBING
Faucets 2737
Toilets/Urinals 2755-2756

GF GAGE
Gages 2338

GF PIPING SYSTEMS
Ball Valves 2870, 2872
Check Valves 2900
Flowmeters 2680
Pipe 2814-2815
Pipe Fittings 2680, 2814-2816
Strainers 2896

GHENT
Boards and Easels 1368-1369, 1371-1373

GHS (GLOBALLY HARMONIZED SYSTEM)
GHS/SDS Training Materials. 1941-1942

GILMOUR
Hoses and Sprinkler Systems 1012-1014

GINGHER
Cutting Tools 815

GKS-PERFEKT
Dollies 1193
Hydraulic Pumps 1193
Jacks 1193

GLADE
Deodorizers 1506

GLARO
Receptacles and Containers 1554
Umbrella Bags/Stands 1350

GLEASON
Cable/Hose Carriers. 1092-1093

GLOBAL FINISHING SOLUTIONS
Paint Spray Booths 1624

GLOBAL PARTITIONS
Bathroom Partitions. 2761-2762

GLOBAL SAFE CORPORATION
Safes 1968

GLOBAL THE SOURCE
Capacitors 3031

GLOBAL WATER
Water Samplers 633

GLOBE
Kitchen Equipment Replacement Parts ... 1461

GLOBE SCIENTIFIC
Laboratory Supplies. 643, 655

GLYNN-JOHNSON
Door Holders 1985
Locksets 1985

GOBAGGER
Spill Control Supplies 1860

GOJO
Dispensers. 1496-1497, 1499, 1501
Personal Care Products 1496-1501

GOLDLINE
Tie-Downs 1102

GOLIGHT
Vehicle Lights 967, 971

GOO GONE
Cleaning Products 1503, 1508, 1514, 1519

GOODMAN
Central A/C and Heat Equipment 3091

GOODWAY
Descalers 3011

GOODWRAPPERS
Packaging and Shipping 1415-1416

GOOF OFF
Cleaners/Degreasers 1519

GORE
Gaskets 2840

GORILLA GLUE
Adhesives 2216-2217, 2225, 2229, 2237
Glues 2237
Tape 1386

GORILLA MILL
End Mills 2280, 2282, 2288-2289, 2293

GOULDS WATER TECHNOLOGY
Booster Pumps 2644, 2652
Centrifugal Pumps 2643-2645
Self-Priming Pumps. 2619, 2646
Wastewater Pumps 2622-2623

GPS
Shrink Film Rolls 1418

GRABBER INC.
Footwear 1757

GRACO
Paint Sprayers 1628-1629
Striping Machines 1627-1628

GRAND PATRICIAN
Bedding/Pillows. 1467

GRANDMA'S
Snack Foods 1441

GRAPHIC CONTROLS
Chart Paper 599
Chart Recorders. 599

GRAY
Automotive Jacks/Stands 940-944
Garage Equipment 919, 931, 943

GRAYMILLS
Parts Washers 939

GREAT PLAINS INDUSTRIES
Flowmeters 2683

GREAT STUFF
Adhesive Removers 2236
Adhesives and Sealants. 2236

GREEN WORKS
Cleaners/Degreasers 1502-1503, 1513
Janitorial Equipment/Supplies. 1513

GREENE MANUFACTURING
Furniture 1327

GREENFIELD
Chucking Reamers. 2258-2259
Dies 2262
Taps 2272

GREENFIELD THREADING
Countersinks 2265
Dies 2262, 2265, 2276
Taps 2262-2266, 2268-2270, 2272, 2275

GREENLEE
Cable Pullers/Feeders 847-848
Cable/Wire Strippers 846
Casters. 1198, 1201, 1207
Circuit Tracers 564
Conduit Benders 850
Conduit Pistons 849
Crimping Tools 847, 853
Cutting Tools 845-846, 853, 869
Deburring Tools 851, 871
Drills/Bits 851
Fish Tape and Sticks 848-849
Hole Cutters 851
Insulated Tools 855, 857
Lubricants 849
Measuring and Layout Tools 883
Pliers 842
Plumbing Power Tools 874
Power Fishing Systems 849
Pumps 853
Punches. 852-853
Racks 849
Reel Stands 850
Saws 851
Screwdrivers 802, 857
Stud Bushings 853
Tap and Drill Sets. 851
Threading Dies. 852
Tool Sets 848, 854
Utility Carts 849
Voice/Data Tools 847
Voltage Testers 545

GREENLEE TEXTRON
Crimping Tools 853
Punch Drivers 852

GREENPATCH
Patching and Repair Compounds 1631

GREENSEAM
HVAC Duct Components. 3097

GREENWORKS PRO
Lawn and Garden Tools 986
Leaf Blowers 988

GRIP-ON
Pipe Cutters 869

GROHE
Faucets 2733, 2738-2739

GROSFILLEX
Outdoor Furniture 1482

GROTE
Automotive Alarms 966
Automotive Lighting. 967-968, 973, 979
Battery Components 923-924
Lamps 504, 968-970, 976-977
Mirrors 948
Power Supply Cords 961
Reflectors 978
Sealants 905
Trailer Lighting Kits 961, 978

GROVES READY RACK
Fire Equipment Storage 1817

GROZ
Compressed Air Treatment 2602

GRUVLOK
Butterfly Valves 2780
Pipe Clamps 2780
Pipe Fittings. 2779-2780
Silicone Lubricants 2779

GUARDAIR
Air Guns 1565, 2515-2518
Pneumatic Vacuum Cleaners 1565, 1567, 1573
Vacuum Cleaner Attachments 1567

GUARDIAN EQUIPMENT
Emergency Wash Equipment ... 1839-1842, 1844

GUMOUT
Fuel Additives 897, 900

GUNK
Automotive Detailing Supplies. 907-910
Cleaners/Degreasers 901, 908
Windshield Washer Solvents 902, 909

GYM WIPES
Cleaning Wipes 1510

H

H&C
Concrete Coatings 1634

HAIMER
Shrink-Fit Machines and Chucks. 2310

HAKKO
Soldering/Desoldering Supplies 232-233, 236, 239

HALDER SIMPLEX
Hammers/Mallets 828

HALDER SUPERCRAFT
Striking Tools 828

HALLOWELL
Cabinets. 1266-1273
Lockers 1253-1262
Shelving. 1236-1237, 1239, 1241-1242, 1244, 1307
Workbenches. 1276

HALSEY TAYLOR
Bottle Filling Stations. 2719
Drinking Fountains 2718-2720

HALTEC
Tire and Wheel Equipment. 953-956

HAM-LET
Instrumentation Fittings 2858-2859
Instrumentation Valves 2860

HAMILTON
Casters. 1200-1203, 1207-1208
Chromatography Supplies 660

HAMMERMILL
Paper 1356

HAMSAR
Automotive Accessories 949
Lamps 504, 979

HANDI-FOAM
Sealants. 2236

HANDY PAINT PRODUCTS
Paint Equipment and Supplies. 1620-1621

HANG-A-LIGHT
Jobsite Lighting 519, 521

HANKISON
Air Bypass Valves. 2590
Air Dryers. 2587, 2589

HANSEN
Hydraulic Couplers. 2489
Pneumatic Couplers. 2521
Tool Storage. 745

HAP SYSTEM
Pipe Supports 2824

HARDIN
Grinders/Polishers 723

HARDMAN
Adhesives 2220

HARRINGTON
Cranes 1063
Hoists and Trolleys. 1051-1058, 1061

HARRIS
Gas Welding Equipment. 2429, 2434-2435
Regulators 2428-2429
Solder and Flux 239, 2618
Welding Electrodes 2432

HARRIS INDUSTRIES
Signs/Tape/Labels 1903-1904, 1932, 1940

HARTELL
Water System Pumps 2626, 2661

HARVEY
Fitting Caddies. 2751
Toilet Repair Parts 2746, 2757

HASSAY SAVAGE
Keyway Broaches 2257

HATHAWAY
Recreational Games. 1479

HAWK
Repellents and Pest Control 1018

HAWS
Emergency Wash Equipment 1839-1841, 1843-1844

HAYWARD
Ball Valves 2870, 2872
Butterfly Valves 2886
Check Valves 2900
Solenoid Valves 2882
Strainers 2896-2897
Tank Fittings 2817

HCS
Personal Care Products 1757

HDE
Voltage Testers 547

HEADLINE IT
Headwear Liners 1640

HEALTH AID 6 MACHINES
Vending Machines 1830

HEALTHSMART
Shower Fixtures. 2746

HEAT FACTORY
Head, Hand and Foot Warmers 1756, 1829

HEAT WAGON
Heaters 3070, 3083-3084

HEATHROW SCIENTIFIC
Laboratory Supplies. 643, 650, 658

HEAVY DUTY
Ramps 1127

HEDLAND
Flowmeters 2685

HEET
Fuel Additives 900

HEIDOLPH
Autoclaves 641
Lab Equipment 635
Laboratory Equipment 646
Mixers and Stirrers 635, 648

HEIN-WERNER
Automotive Lifting Tools 940-943
Wheel Dollies 944

HELICOIL
Taps 2141, 2270
Thread Inserts and Tools 2137-2141

HELLY HANSEN
Workwear 1714, 1723, 1729

HEMCO
Fume Hoods 636

HENRY
Coatings 1630-1631

HERCULES
Sealants 2220, 2724, 2820
Toilet Repair Parts 2757

HERGO
Furniture 1343

HERITAGE
Scissors 815-816

HERMITEX
Paint Equipment and Supplies 1622

HES
Door Strikes and Rectifiers 1977

HESSAIRE
Evaporative Coolers 2998

HETTICH
Centrifuges 650

HEXARMOR
Hand Protection 1683-1684, 1686
Workwear 1686

HI-RUN
Tires 957

HI-TECH DURA-VENT
Hoses 2610-2612

HI TEMP
Welding Safety Equipment 2409-2410

HIGHLAND
Tiedowns/Tow Ropes 965

HIGHLIGHT
Film Cutters 1417
Stretch Wrap Machines/Dispensers 1417

HIGHSIDE CHEMICAL
Epoxy 3012
Joint Sealants 3012
Leak Detectors 3012

HILMAN ROLLERS
Rollers 1193

HIRETECH
Wallpaper Removal Tools 1622

HIRSH
Furniture 1338, 1344-1345

H.K. PORTER
Cutters 817, 845, 1420

HOBART
Welder/Generators 2412, 2416, 2418, 2422
Welding Electrodes 2417, 2432
Welding Wires 2415-2416, 2419
Wire Feed Welders 2412

HOBO
Data Loggers 592-593

HOFFMAN
Enclosure Air Conditioners 301-302
Enclosure Heaters 302
Enclosures 292-298, 302
Pumps 2661

HOFMANN POWER WEIGHT
Wheel Weights 952

HOLLAENDER
Structural Fittings 1308

HOMAX
Paint Equipment and Supplies 1630, 2232
Paints and Coatings 1630

HONDA
Engine-Driven Pumps 2632
Engines 985
Generators 981, 983
Mowers and Trimmers 986

HONEY-CAN-DO
Kitchen Storage 1443-1444
Laundry/Storage Equipment 1475-1476

HONEYWELL
Actuators 3043, 3045
Air Cleaner Filters 3049
Air Cleaners 3093
Calibration Kits 3040
Calibration Tools 3040
Chart Paper 599
Dampers 3041, 3043, 3045, 3100
Dehumidifiers 3093
Dehumidistats 3028
Emergency Wash Equipment 1839
Firefighting Gear/Gloves 1816
First Aid Equipment/Supplies 1822, 1829-1830, 1837
Humidifiers 3092
HVAC Controls 3030
Ignition Controls 3033-3034
In-Line Restrictors 3040
Modutrol Motors 3045
Pilot Ignition Systems 3034
Pneumatic Controls 3040-3042
Pneumatic Fittings 3040
Relays 3030, 3035, 3041
Respirators 1768
Switches 231, 259, 261, 267, 270-272, 274, 277, 290, 3041
Temperature Controls 3024, 3026, 3030
Temperature Sensors 3021, 3028, 3040
Thermostats 3021-3024, 3028, 3040
Valves 3032, 3037, 3043, 3092
Workwear 1686
Zone Control Systems 3037, 3043

HONEYWELL FIBRE-METAL
Head Protection 1635-1636, 1638, 2407
Face Protection 1639

HONEYWELL HOME
Actuators & Valves 3032, 3037, 3043
Air Cleaners 3093
Air Filters 3049
Air Vents 3037
Dampers 3100
Humidifiers & Dehumidifiers 3092-3093
HVAC Controls 3028, 3030, 3033-3035
Hydronic Heating Systems 3036
Immersion Wells 3030
Thermostats 3020-3024

HONEYWELL HOWARD LEIGHT
Ear Protection 1643-1649

HONEYWELL MILLER
Body Belts 1798
Confined Space and Rescue Equipment 1786-1787
Fall Protection Equipment 1788, 1790, 1792, 1795-1800, 1803, 1805-1806

HONEYWELL NORTH
Eye Protection 1656
First Aid Equipment/Supplies 1830, 1837
Footwear 1741
Hand Protection 1673
Head Protection 1635, 1637-1639
Respirators 1758, 1763, 1765, 1768, 1772-1775
Workwear 1733

HONEYWELL RANGER
Firefighter Clothing/Turnout Gear 1745

HONEYWELL SALISBURY
Arc Flash Protection Equipment 1707, 1709-1711, 1714
Dielectric Footwear 1709
Face Protection 1709
Workwear 1708-1709, 1714

HONEYWELL SERVUS
Footwear 1741, 1743-1745, 1756

HONEYWELL UVEX
Eye Protection 1653-1656, 1663, 1667-1668
Face Protection 1639
Lens Cleaners 1666

HOOKLESS
Shower Curtains 2746

HOOVER
Vacuum Cleaners 1568-1570, 1573, 1575

HOPKINS
Automotive Towing Supplies 961

HOSE MASTER
Metal Hose Assemblies 2842-2844

HOSHIZAKI
Ice Machines 1460, 3004

HOSPECO
Adult Incontinence Supplies 1494
Baby Seats 1495
Paper Products and Dispensers 1494
Personal Care Products 1494
Spill Control Supplies 1533

HOSPITALITY 1 SOURCE
Guest Room Amenities 1474-1475

HOT BOX
Valve Enclosures 2907

HOT SHOT
Repellents and Pest Control 1023

HOTEL BASICS
Bedding/Pillows 1468

HOTHANDS
Head and Body Warmers 1642
Head Protection 1642

HOTPOD
Duct Fan Heaters 2947
Thermostats 2947

HP
Paper 1356

HSM OF AMERICA
Shredders 1376-1377

HTC
Saw Blade Guards 2350

HUBBELL BELL
Cover Plates 310
Weatherproof Conduit Boxes 310

HUBBELL/COLUMBIA
Lighting Fixtures 431-434, 436, 438, 443, 446-447, 454-455

HUBBELL/COMPASS
Lighting Fixtures 424-425, 427

HUBBELL/DUAL-LITE
Emergency/Exit Lights 424-425, 428-429

HUBBELL/KILLARK
Conduit Bodies 314, 321
Control Stations 250
Cover Plates 309
Electrical Boxes 309
Hazardous Location Fixtures 449, 452, 460

HUBBELL/KIM
LED Landscape Lighting 460, 463

HUBBELL LIGHTING
Lighting Fixtures 438, 445-446, 450, 453-463

HUBBELL PREMISE WIRING
Adapter Panels 357-358
Connector Fittings 355
Connectors 355, 358
Cover Plates 355
Electrical Cabinets 357
Jacks 355-356
Patch Cords 354
Patch Panels 357
Surface Housings 355
Test Equipment 363
Wiring Blocks 355

HUBBELL/RACO
Bar Hangers 308
Bushings 315
Conduit Bodies 314
Conduit Covers and Gaskets 314
Conduit Fittings 308, 313, 315, 322
Connectors 315, 322-326
Couplings 315
Cover Plates 308
Electrical Boxes 308, 312, 315
Extension Rings 308
Grounding Fittings 322
Locknuts 315
Washers 315, 322
Weatherproof Plugs 310

HUBBELL STAHLIN
Enclosures 299-300

HUBBELL/WHITEWAY
Lighting Fixtures 455

HUBBELL/WIEGMANN
Electrical Enclosure Heating/Cooling Systems 302
Electrical Enclosures . . . 248, 258, 292-296, 300
Wireway Duct 293
Wireway Fittings 293

HUBBELL WIRING DEVICE-KELLEMS
Adapter Plates 312, 331, 340
Auxiliary Contacts 175
Cable Grips 325, 327, 352
Cable Protectors 404
CableTrak 405
Conduit 322
Connectors 322, 326, 334, 336-337, 339-341
Cord Grips 325-327
Cord Reels 397
Cover Plates 328, 330, 360
Electrical Boxes 167, 310, 340, 342
Electrical Testers 547
Floor Boxes 312
Floortrak 404
Fluorescent Lampholders 465
Fluorescent Starters 465
Ground Fault Interrupters 402, 413
Inlets 330, 340
Interlock Devices 342
Lighting Fixtures 450
Locking Devices 175, 337-339, 342
Marine Cords 399
Motion Sensors 468-469
Pendant Stations 249
Pin and Sleeve Devices 341-342
Plug Adapters 335
Plug Caps 340
Plug Lockouts 328
Plugs 312, 334-341
Power Poles 304
Pulling Grips 352
Raceways 304, 306, 403
Receptacles 310, 330-334, 336-341
Safety Springs 327
Strain Relief Connectors 325-326
Switches 167, 175, 262, 329-330, 333, 419, 469
Temporary Power Devices 413
Twist-Lock Devices 336-337
Weatherproof Boots 337-338
Weatherproof Covers 310, 338, 340

HUBBELL WORKPLACE SOLUTIONS
Tool Retractors 2514

HUBBELLOCK
Devices 340

HUCK
Riveters 2135

HUOT
Tool Carts . . . 2313, 2411
Tool Racks . . . 2313

HUSKY RACK AND WIRE
Shelving and Storage Racks . . . 1226-1229
Wire Enclosures . . . 1230, 1315

HUSQVARNA
Air Cleaners . . . 719
Automotive Oils . . . 900
Coring Rigs . . . 716
Dust Collectors . . . 719
Grinding Equipment . . . 719
Saw Blades . . . 719-721
Saws . . . 717-721
Shop Vacuum Cleaners . . . 719

HYDE
Flooring Tools . . . 887-888, 891
Hoses and Sprinkler Systems . . . 1014
Paint and Drywall Tools . . . 887-889
Paint Equipment and Supplies . . . 1620, 1625

HYDROCLEAN
Toilet Repair Parts . . . 2756

HYDROPLUG
Patching Mortar . . . 1633

HYLOMAR
Sealants . . . 2226

HYTORC
Pneumatic Tools . . . 2503

I

ICE-O-MATIC
Ice Machines, Dispensers & Bins . . . 1460, 3004

ICEBERG
Furniture . . . 1339-1340, 1346, 1444

ICETREKKERS
Footwear . . . 1747

ICI SCIENTIFIC
Laboratory Equipment . . . 636, 638

ICM
Furnace Controls . . . 3033, 3036
Hard Start Kits . . . 3031
Monitors . . . 3031
Pressure Controls . . . 3031
Relays . . . 3031, 3035
Surge Arrestors . . . 3031
Thermostats . . . 3020-3021

ICOM
Two-Way Radios . . . 2027

ICS
Chain Saws . . . 717

IDEAL INDUSTRIES
Antioxidants . . . 380
Cable Testers . . . 362, 364-365
Circuit Tracers . . . 564
Connectors . . . 351, 386-388
Crimping Tools . . . 365-366
Cutters . . . 853
Electrician's Tools . . . 187, 365-366
Fiber-Optic Tools . . . 363
Fish Tape . . . 848
Hand Benders . . . 850
Lubricants . . . 2440
Luminaire Disconnects . . . 388
Phone Line Testers . . . 364
Receptacle Testers . . . 547
Set Screw Holders . . . 387
Strippers . . . 345, 366, 846
Switch Boots . . . 260
Switches . . . 260
Voltage Testers . . . 545
Wire Terminals . . . 388

IDEALFOLD
Paint Equipment & Supplies . . . 1622

IDESCO
Identification Products . . . 1939

IFM
Light Curtains . . . 278
Sensors . . . 282-283, 285
Transmitters . . . 290

IGLOO
Coolers . . . 1826-1827

IIG
Pipe Insulation . . . 2836

ILC DOVER
Respirators . . . 1767

IMPACT (D)
Janitorial Equipment & Supplies . . . 1505, 1536

IMPACTO
Automotive Interior Accessories . . . 950
Ergonomic Supports . . . 1705
Footwear . . . 1746-1747, 1756

IMPELLER
Flowmeters . . . 2686

IMPERIAL
Abrasives . . . 871
Benders, Cutters & Reamers . . . 868, 870-871
Charging Hoses . . . 3006
Fittings . . . 3006
Flaring & Swaging Tools . . . 868, 3010
Manifold Gauges . . . 3005
Pliers . . . 843
Refrigeration Tools . . . 3010
Sealants . . . 905
Wrenches . . . 3010

IMPERIAL RESTAURANT
Kitchen Equipment Replacement Parts . . . 1461

IMPLUS FOOTCARE
Footwear . . . 1756-1757

IN-SINK-ERATOR
Hot Water Dispensers . . . 2732
Waste Disposers . . . 2732

INA
Bearings . . . 142-143

INCOM
Tape . . . 1901, 1932

INDIAN
Fire Protection Equipment . . . 1001

INDUSTRIAL SCIENTIFIC CORP.
Gas Detectors . . . 1776-1778

INDUSTRIAL TEST SYSTEMS
Water Sampling . . . 632

INFICON
Gas Detectors . . . 3010
HVAC & Refrigeration Equipment . . . 3007-3009

INGERSOLL RAND
Air Compressors . . . 2561, 2563-2564, 2566-2569
Air Dryers . . . 2588
Air Line Filters, Regulators & Lubricators . . . 2600-2601
Air Motors . . . 2577
Air Tools . . . 2502-2506, 2509, 2511-2513
Air Winches . . . 1083
Compressed Air Systems . . . 2588, 2593
Condensate Separators . . . 2571
Electric Screwdrivers . . . 2504
Grinders . . . 2507-2509
Oil Level Switches . . . 2564
Power Transmission Belts . . . 2567
Sanders . . . 2509-2510
Saw Blades . . . 2511
Saws . . . 2511
Separator Elements . . . 2571
Tool Retractors . . . 2514

INNOTEX
Hand Protection . . . 1816
Turnout Gear . . . 1815

INNOVATIVE COMPONENTS
Knobs . . . 2323-2324
Lanyards . . . 2321
Pins . . . 2321

INOVA
Batteries . . . 533

INSINGER (D)
Dishwashers . . . 1447

INSL-X BY BENJAMIN MOORE
Paints . . . 1604

INSTOCK
Lab Supplies . . . 636

INSULTAB
Shrink Tubing . . . 376, 378

INTECH
Condensate Separators . . . 2571

INTERMATIC
Cover Plates . . . 310
Photocontrols . . . 414
Timers . . . 415-421

INTERNATIONAL ENVIROGUARD
Workwear . . . 1672, 1739

INTERTAPE
Tape . . . 1384, 1395, 1397

IPA
Trailer Accessories . . . 961

IPG
Tape . . . 1397

IREGA
Adjustable Wrenches . . . 855

IRON AGE
Footwear . . . 1749

IRON BREW
Coffee . . . 1437

IRON DUCK
First Aid/Medical Equipment . . . 1822

IRON OUT
Stain Removers . . . 1519

IRONCAT
Hand Protection . . . 1704

IRONCLAD
Hand Protection . . . 1684, 1693-1696, 1702

IRONGUARD
Forklift Attachments . . . 1175
Trailer Accessories . . . 1126

IRWIN
Clamps . . . 833, 838
Drill & Impact Bits . . . 698-705
Knives . . . 808-809, 811
Saws . . . 886
Screwdriver Bits . . . 802

IRWIN HANSON
Bolts, Bolt Extractors & Screws . . . 2260
Dies & Taps . . . 2262, 2265, 2268, 2275-2276

IRWIN QUICK-GRIP
Clamps . . . 834

IRWIN STRAIT-LINE
Measuring & Layout Tools . . . 884

IRWIN VISE-GRIP
Cable Cutters . . . 845
Clamps . . . 837
Pliers . . . 838, 841-842, 846
Tool Sets . . . 838
Wire Strippers & Cutters . . . 846
Wrenches . . . 838

ISA CORPORATION
Footwear . . . 1746

ISOLITE
Emergency & Exit Signs . . . 428

ITRON
Gas Heater Accessories . . . 3083

ITW
Pipe Insulation . . . 2836-2837

ITW BEE LEITZKE
Fastener Assortments . . . 2087, 2097, 2112, 2126, 2150
Key Stock . . . 2177
Lanyards . . . 2152
Ring Pins . . . 2155
Spring Pins . . . 2152

ITW BUILDEX
Screws . . . 2107

ITW DYMON
Cleaners/Degreasers . . . 1508, 1511, 1519
Janitorial Equipment/Supplies . . . 1511, 1517-1518
Odor Control and Drain Maintainers . . . 1504-1506
Repellents and Pest Control . . . 1023

ITW VORTEC
Enclosure Coolers . . . 302

IVYX
Topical Skin Protection . . . 1829

J

J-B WELD
Adhesives . . . 2217, 2220

J. TERENCE THOMPSON, INC.
Storage Containers and Totes . . . 1296, 1304

JABSCO
Pumps . . . 2694

JACKSON
Lawn and Garden Tools . . . 999-1000, 1016

JACKSON SAFETY
Eye Protection . . . 1657, 1662
Head Protection . . . 2406-2407
Welding Layout Tools . . . 2422

JACOBS
Arbors . . . 2315
Chuck Keys . . . 2315
Chuck Wedges . . . 2315
Drill Chucks . . . 2314
Drill Sleeves . . . 2315
Sockets . . . 2315

JAGUAR
Repellents and Pest Control . . . 1018

JAMCO
Cabinets . . . 1269-1270, 1868-1869, 1871-1872
Carts and Trucks . . . 1150-1154, 1157, 1161-1168
Workbenches/Workstations . . . 1322-1324

JAMESON
Fish Tape and Sticks . . . 848
Insulated Tools . . . 854-855
Pruning Equipment . . . 1005-1006, 1009
Wrenches . . . 783

JARKE
Racks . . . 1238

JAY R. SMITH
Drains . . . 2723, 2725

JB INDUSTRIES
Charging Hoses . . . 3006
Epoxy Sealers . . . 3012
Gas Detectors . . . 3008
HVAC Gauges . . . 2994, 3005, 3009
Refrigerant Leak Detectors . . . 3008
Refrigerant Scales . . . 3007
Refrigeration Compounds . . . 3012
Refrigeration Fittings . . . 3006, 3010, 3015
Refrigeration Tools . . . 3007, 3010
Refrigeration Valves . . . 3006, 3010, 3015
Vacuum Pumps . . . 3007

JBC REVOLUTION
Traffic Safety . . . 1911

JE TOMES
Concrete, Asphalt, and Masonry . . . 1632-1634

JED
Pool Supplies . . . 1481

(D) Indicates a Diversity Supplier.

JELLY BELLY
Snack Foods 1440

JENDYK
Specialty Locks 962

JENNY
Air Compressors 2559-2562, 2568

JESSUP
Antislip Tape 1900-1901, 1903

JET
Air Filtration Systems 2363
Band Saws 2349-2350
Belt/Disc Sanders 2360-2362
Bench Grinders 2359
Chop Saws 736
Drill Presses 2345
Dust Collectors 2363
Machine Presses 2357
Machine Stands 2356
Machine Tools 2356
Machining Lathes 2347
Metal Forming Machines 2355
Milling Machines 2344
Sanders 2360-2362
Saws 736
Shears 2356
Slip Rolls 2355
Table Saws 729, 733

JET ELITE
Lathes 2347
Milling Machines 2344
Saws 2349

JET-LUBE
Grease 2450-2452
Lubricants and Penetrants 2438-2439, 2443-2445, 2450, 2452

JJ KELLER
Automotive Records 950, 963
Labor Law Posters 1941
Placards and Traffic Safety 1907
Reference Books 963
Safety Training Materials 963, 1941, 1943

JLG
Personnel Lifts 1033

JOBOX
Tool Storage 748-749
Truck Boxes 750-753

JOHN BEAN
Tires and Wheels 952

JOHN GUEST SPEEDFIT
Tubing Fittings 2807, 2850
Valves 2850

JOHN STERLING
Shelf Brackets and Supports 1476

JOHNDOW INDUSTRIES
Automotive Supplies 1874

JOHNS MANVILLE
Insulation 2833, 2837

JOHNSON CONTROLS
Actuators 3043-3044
Current-Sensing Switches 3046
Humidity Controls 3027-3028
Immersion Wells 3030
Pneumatic Controls 3040-3043
Pressure Controls 3016-3018, 3026, 3031, 3041-3042, 3046
Pump Controls 3046
Refrigeration Capillaries 3017
Refrigeration Controls 3017-3018
Sensors 3008, 3026-3027
Thermostats 3020, 3023-3028, 3030, 3034, 3040-3041
Transformers 205
Water Valves 3017, 3043

JOHNSON LEVEL
Measuring and Layout Tools 875, 879-885

JONARD
Cutters/Strippers 366, 815, 845-846
Electrician's Tools 365, 848
Fiber-Optic Tools 365, 815, 846
Insulated Tools 854
Pliers 845
Wrenches 783

JOY
Dishwashing Detergents 1515

JT EATON
Repellents and Pest Control 1017-1018, 1023

JULABO
Chillers, Circulators, and Baths 640

JUN-AIR
Air Compressors 2580

JUNO
Track and Recessed Fixtures 429-430, 434

JUST MANUFACTURING
Sinks 2725, 2728, 2730-2731

JUSTRITE
Aerosol Can Recycling Systems 1864
Drum Cabinets 1869
Funnels 1874
Laboratory Containers 1876
Receptacles and Containers 1552, 1554
Safety Cabinets 1869-1872
Safety Storage 1873-1876
Spill Containment Supplies 1869, 1872

J.W. SPEAKER
Automotive Lighting 967-970, 977, 979
Safety Alarms and Warnings 968, 972

K

K & E RAILHEAD
Traffic Safety 967, 1909

K & W
Automotive Fluids 897-898, 900
Gasket Sealants 905

K-FLEX USA
Adhesives 2834-2835
Insulation 2833-2835
Noise Control Products 2834
Pipe Insulation Tape 2834

K-SUN
Cable Sleeves and Wire Labeling Systems 373

K1 SERIES
Footwear Traction Devices 1747

KABA ACCESS CONTROL
Keyless Access Control Locks 1973-1974

KABA ILCO
Door Locks and Deadbolts 1974
Key Blanks 1964
Key Duplicators 1964-1965

KABOOM
Cleaners/Degreasers 1503

KAMP-RITE
Camping Equipment 1823

KANT-TWIST
Clamps 834

KAREWEAR
Hand Protection 1673
Workwear 1734

KASCO
Fountain Pumps/Aerators 2640

KASHI
Snack Foods 1441

KASK
Head Protection 1637

KECKLEY
Float Valves 2909

KEEBLER
Snack Foods 1440-1441

KEEN
Footwear 1752

KEEPER
Tie-Downs 1102

KELLEMS
(See Hubbell Wiring Device-Kellems)

KELLOGG'S
Cereals and Snack Foods 1441

KEM TEK
Pool Chemicals 1480

KEN FORGING
Eye Nuts 2075
Eyebolts 2076, 2078
Rod Ends 2077

KEN-TOOL
Automotive Supplies 931, 952-954

KENNEDY
Tool Storage 744, 1295

KENSINGTON
Computer Accessories 1353

KENWOOD
2-Way Radios 2026, 2032

KEO CUTTERS
Counterbores 2257
Countersinks 2255-2257

KERICK VALVE
Float Valves 2911

KERR LAKESIDE
Screws 2112

KESON
Marking Tools 884
Measuring Tools 875-877

KESTREL
Meters 620

KETCHAM
Bathroom Hardware 1495

KEY-BAK
Key Controls 1966

KEYSHAFT
Keyed Shafts 131

KEYSTONE ADJUSTABLE CAP
Workwear 1731

KEYSTONE FABRICS
Sun Shades 1484
Window Treatments 1484

KG'S BOOT GUARDS
Footwear 1757

KH INDUSTRIES
Control Stations 249
Cord/Cable Reels 398
Cords 345
Electrical Plugs and Connectors 412
Hand and Portable Lamps 522

KIDDE
Carbon Monoxide Alarms 1882
Escape Ladders 1880
Fire Extinguishers/Foam 1877-1878, 1880
Key Cabinets 1967
Locking Systems 1967
Smoke Alarms and Heat Detectors 1881

KILLARK
(See Hubbell/Killark)

KIMBERLY-CLARK
Eye Protection 1657, 1662
Paper Products/Wipers 1486-1492, 1494, 1500
Respirators 1758
Restroom Equipment 1486-1489, 1491

KIMBLE
Labware and Supplies 650, 652, 655-657

KIMTECH
Towels/Wipers 661, 1492

KIND
Snack Foods 1441

KINEDYNE
Tie-Down Equipment 1104-1107

KIPP
Clamps 2319
Handles 2322
Handwheels 2318

KISSLER & CO.
Faucet/Toilet Replacement Parts 2746, 2748-2749, 2757
Water Supply Valves and Connectors 2718, 2723

KLEEN DEF
Automotive Fluids 896

KLEIN TOOLS
Cable Pullers 847
Chisels and Punches 802
Crimping Tools 846-847, 855
Cutting Tools 815-817, 842, 845-846
Fish Tape and Sticks 848
Hand Benders 850
Insulated Tools 854-857
Knives 855
Lighting 754
Nut Drivers 804
Pliers 839, 841-842, 846, 855
Saws 886
Screwdrivers 798-802, 857
Tapping Tools 802
Temperature and Humidity Measuring 615
Tool Storage 754-757
Tool Sets 848, 854
Wire Strippers 846
Wrenches 790, 796

KLEVER KUTTER
Utility Knives 809, 811

KMC CONTROLS
Building Automation Controls 3027, 3045
Pneumatic Actuators 3041
Pneumatic Controls 3042

KNAACK
Tool Storage 748-749

KNESS
Repellents and Pest Control 1017-1018

KNIPEX
Cutting Tools 817, 845, 855
Insulated Tools 854-856
Pliers 839-840, 842-844
Wrenches 855

KOALA KARE PRODUCTS
Baby Changing Stations 1495

KOHLER
Engines 985
Faucets 2733-2735, 2737-2740

KOLDWAVE
Air Conditioners 2996

KOMELON
Measuring Equipment/Supplies 875

KOOL SEAL
Coatings 1630

KORKY
Toilet Repair Supplies 2751, 2756-2757

KRAFT TOOL
Asphalt and Concrete Tools 892, 1673

KRAZY GLUE
Instant Adhesives 1361

KRUD KUTTER
Cleaners 1508-1509, 1519

KRUEGER
Gauges 581

KRYLON
Paints 1598
Primers 1598, 1608
Spray Paints 1608-1609

KST COATINGS
Roof Repair Products/Coatings 1630

KUNKLE
Relief Valves 2894

KURIYAMA
Hoses 2635-2636
Pneumatic Hoses 2609

KUSHLAN
Mixers 893
Plate Compactors 1009

KUUL PADS
Evaporative Pads 2999

KWIKSET
Locksets 1985

KYOCERA
End Mills 2288, 2294
Inserts 2303, 2309

L

L. B. WHITE
Heaters 3083-3084

L9
Nuts 2081-2082
Screws 2062

LA-CO
Lubricants and Penetrants 2457
Sealants 2224

LAB ARMOR
Dry Baths 639

LAB COMPANION
Laboratory Equipment 638, 647

★LAB SAFETY SUPPLY
Laboratory Equipment 638, 642-644, 646, 661-662
Laboratory Supplies 632, 634, 643, 645, 650, 652-658, 661-663

LABCHEM
Laboratory Chemicals 628, 630, 634

LABCONCO
Fume Hoods and Glove Boxes 636
Glassware Washers 641
Laboratory Equipment 636, 641

LABELMASTER
Safety Training Materials 1941

LACEY MILLS
Bath Rugs 1473

LACROSSE
Footwear 1741, 1743

LAING THERMOTECH
Pumps 2639, 2690

LAKESIDE
Carts 1445-1446, 1448

LAMOTTE
Water Sampling 631-632, 2702

LARSON ELECTRONICS
Hazardous Location Fixtures 451
Lighting Fixtures 451, 460, 518
Task Lights 451

LASCAR
Data Loggers 593

LASCO
Fittings 2811-2813, 2818
Gaskets 2818

LAVI
Queue Systems 2043

LCN
Door Closers and Openers 1978, 1993
Electromagnetic Locking Systems 1976

LDI INDUSTRIES
Gauges 2464
Lubrication Fittings 2463-2464
Lubricators 2463, 2465
Sight Plugs/Checks 2464

LEARNLAB
Training Supplies 1943

LEATHERHEAD
Fire/Rescue Tools 1820

LEATHERMAN
Knives 814
Multitools 755, 814

LEESON
IEC Metric AC Motors 21
Washdown Motors 32

LEGACY
Grease Guns 934
Grease Pumps 930, 933-934, 2672
Hose Reels 937, 2525
Oil Pumps 936-937

LEGRAND
Connectors 338
Plugs 338
Raceways 304-307
Surge Protection Devices 203, 306

LEGRIS
Fittings 2556-2557, 2852
Valves 2553

LEICA
Distance Meters 878, 880
Measuring and Layout Tools 878
Utility Locators 565

LENOX
Abrasives 737, 2387
Cutting Fluids 2351
Knives 808-809
Pipe Cutters 869-870
Saw Blades 727-728, 2352
Saws 728, 886

LEONARD VALVE
Hose Stations 2909
Mixing Valves 2908-2909

LEWIS BINS
Bins/Boxes 1286-1287, 1292-1293

LEXAN
Plastic 440

LG
Air Conditioning Compressors 3014

LG ELECTRONICS
Televisions 2021

LIBERTY GARDEN PRODUCTS
Hose Reels, Racks, and Stands 1016

LIBERTY PUMPS
Pumps 2621-2622, 2624-2627, 2629-2631

LIFESECURE
First Aid Equipment/Supplies 1835

LIFT-ALL
Cargo Control 1104-1105
Slings 1074-1079
Steel Cables 1084
Towing Equipment 965
Winches 1105

LIFTMASTER
Door Openers 1125
Gate Operators 1969

LIGHT EFFICIENT DESIGN
Lamps and Bulbs 488, 505-509

LINCOLN ELECTRIC
Filler Metals 2415
Fume Extractors 2408
Hand Protection 2405
Head Protection 2406
Welding Equipment . . . 1003, 2408, 2411-2414, 2416-2418, 2420

LINCOLN INDUSTRIAL
Drum Dollies 930
Funnel Drain Pans 931
Grease Fittings 935
Grease Guns 932-934, 936-937
Grease Pumps 933-934
Oil Drain Pans 931
Oil Meters 937
Oil Pumps 934, 937, 2672
Transfer Pumps 936

LIND EQUIPMENT
Cable/Cord Reels 354

LINEMASTER
Foot Switches 263

LIPTON
Teas 1437

LIQUID NAILS
Adhesives 2229

LIQUID PAPER
Correction Fluid and Tape 1359

LIQUID PLUMR
Drain Cleaners 1504

LIQUID WRENCH
Lubricants 2438-2439, 2442, 2453

LIQUIDYNAMICS
DEF Transfer Systems 2671, 2673, 2677
Lubrication Systems 931, 933

LIQUIVAC
Oil and Fluid Extractors 931

LISTA
Cabinets 1170, 1264
Workbenches 1170, 1318-1319

LITHONIA
Emergency/Exit Lights 422-423, 426-429
Fluorescent Fixtures 423, 437, 439, 441-442, 444, 448
HID Fixtures 445, 458
Indoor Lighting Fixtures 431
LED Fixtures 431-432, 434, 436, 438, 440, 443, 445-447, 453, 455
Lighted Signs 426
Outdoor Area Fixtures 438, 450, 456-460, 462
Track and Recessed Fixtures 434-435
Vandal-Resistant Fixtures 439, 450
Vapor-Tight Fixtures 439
Wall Packs 453-454

LITTELFUSE
Fuses 177, 180

LITTLE GIANT
Cabinets 1157
Carts 1150-1151, 1153-1154, 1157, 1161-1162
Jobsite Boxes 1157
Ladders 1027-1028
Lockers 1262
Racks 1239
Shelving 1239
Spill Containment Supplies 1867
Tables/Workbenches 1325
Trucks . . . 1150, 1154, 1157, 1161, 1163-1164, 1166, 1168, 1184-1185

LITTLE GIANT PUMP CO.
Carpet Cleaner Pumps 2669
Centrifugal Pumps 2638-2639
Condensate Removal Pumps 2662
Evaporative Cooler/Recirculating Pumps 2691
Float Switches 2628-2629
Magnetic Drive Pumps 2648
Parts Washer/Machine Tool Coolant Pumps 2638, 2692
Pond and Fountain Pumps 2639
Pool Cover Pumps 2641
Sump, Effluent and Sewage Pumps 2619-2624, 2626, 2629-2630
Utility Pumps 2630-2631
Water Garden Accessories 2639

LITTLE TREES
Deodorizers 909

LLAMBRICH USA
Drill Chucks 2314

LOC-LINE
Hose Systems 2461

LOCK-UP
Bedding Encasements 1469

LOCTITE
Adhesive Applicators 2172, 2219
Adhesive Mix Nozzles 2219
Adhesives 2172, 2216-2218, 2220-2221, 2223, 2225, 2228-2230
Concrete Repair Materials 1633, 2172
Curing Aerosols 2223
Epoxy 2217, 2220-2221, 2230
Epoxy Mixer Cups 2217
Grease 2452-2453
Lubricants and Penetrants . . . 2439, 2443-2445
O-Ring Kits 2173
Primers 2223
Retaining Compounds 2223
Rubber Repair Compounds 2221
Sealants 2224, 2226-2227, 2230, 2233
Threadlockers 2222, 2224
Welding Supplies 2428

LOGITECH
Computer Accessories 1354

LOOS
Swage Fittings 1089
Swaging Tools 1089

LOUISVILLE LADDER
Ladders 1026, 1031, 1036
Scaffolds 1044
Work Platforms 1048

LOVE
Temperature Meters/Monitors 590

LOVEJOY
Hydraulic Oil Coolers 2494
Hydraulic Reservoirs 2495
Tensioners 121
Universal Joints 130

LOVIBOND
Reagents 631
Water Quality Testers 631

LPS
Cleaners/Degreasers . . . 901, 2446-2449, 2457
Grease 2452-2453
Hand Towels 2446
Lubricants and Penetrants 2438-2445, 2457-2459
Oils 2457

LTS
Video Surveillance Systems 2045-2046

LUBESITE
Grease Feeders 2465

LUCAS OIL
Grease 899

LUCKY LINE PRODUCTS
Key Controls 1907, 1964, 1966-1967

LUFKIN
Measuring and Layout Tools 875-876

LULZBOT
3D Printers 664

★LUMAPRO
Ballasts 473-476, 478
Cord/Cable Reels 396, 400
Electrical Cords 396
Emergency/Exit Lights 424-425, 427, 429
Flashlights 523-524, 526-531
Hand and Portable Lamps 396, 522
HID Capacitors 478
Jobsite Lighting 519, 521
Lamp Safety Sleeves 481
Lamps and Bulbs 246, 280, 484, 487-489, 495, 497-504, 507-509, 970, 978
LED Fixtures 431-432, 436, 438, 445-446, 453-454, 457, 459-460
LED Rope and Tape Lights 429
Lighting Fixtures 437, 439, 441-442, 444, 448, 450, 454-455, 458, 460-461, 463
Motion Sensor Lights 462
Task Lights 515-516, 518
Track and Recessed Fixtures 430, 434

LUTRON
Ballasts and Drivers. 471-472
Light Controls and Sensors 465-467, 470
Switches 419, 465-467, 470

LUX
Thermostats. 3020-3023

LUXO
Microscopes 643
Task Lights. 515

LW SCIENTIFIC
Laboratory Equipment 640, 643, 648, 650

LYLE SIGNS
Signs . . . . . 1131, 1916-1917, 1922, ... 1924-1925, 1941

LYNDEX-NIKKEN
Toolholders 2311

LYNKTEC
Batteries 533

LYON
Cabinets. 1265-1268

LYSOL
Air Fresheners 1506
Cleaners/Disinfectants 1503-1504, 1509-1513

M

MACROMATIC
Relays 221-223
Timers 418

MACURCO
Gas Detection 624

MADISON
Float Switches. 2678-2679
Leak Detectors. 2679

MADRAX
Bicycle Racks and Lockers 1482

MAG 1
Automotive Fluids 894-897, 899-900
Lubricants 894-896, 898-901, 2441

MAG-MATE
Automotive Tools 918
Confined Space Equipment 1066
Inspection Mirrors 824
Lifting Magnets 1066
Magnetic Welding Grounds 2424
Magnetic Welding Squares 2424
Magnets and Magnetic Strips 824
Retrieval Tools 824

MAGIC
Cleaners. 1518

MAGICARD
ID Card Printers 1970

MAGLINER
Hand Trucks. 1185-1186, 1190
Platform Trucks 1165

MAGLITE
Flashlights 524, 527, 531

MAGNA VISUAL
Display Boards. 1369

MAGNAFLUX
Inspection Supplies 2427

MAGNET SOURCE
Magnets. 824

MAGSWITCH
Magnetic Welding Squares 2424

MAG-TORCH
Torches 2436

MAHR FEDERAL
Micrometers 2341
Surface Testers 2341

MAKITA
Air Compressors 2559
Chain Saws 1004
Cordless Tools . . . . . 686-689, 703, 988, ... 1004, 1563, 1569-1571
Grinders. 719, 722
Impact Wrenches. 697
Lawn and Garden Equipment . . . 986-988, 1004
Nibblers 726
Oils. 900, 2441
Planers. 719, 725
Power Cutters 718
Rotary Hammers 715
Sanders 723, 725
Saws 717-718, 726, 729, 732, 736
Shears 726
Vacuum Cleaners. 722, 1569, 1576

MALCO PRODUCTS
Tools 816, 871

MALIN CO.
Safety and Lock Wire. 1094

MALLORY
Snow Removal Tools 948
Window Washing Equipment 909

MANITOWOC
Ice Machines 1460, 3002

MANPLOW
Ice/Snow Removal Tools 993

MANTUA
Beds. 1470

MAPA
Hand Protection. 1687

MARADYNE
Fans. 2925

MARASTAR
Casters. 1207

MARATHON
Tires. 957

MARATHON MOTORS
Air Compressor Motors 36
Farm-Duty Motors 34-35
General Purpose AC Motors. 9, 13, 16, 20
Hazardous Location Motors. 28-29
HVAC Motors 64
Pump Motors 23-24, 26
Washdown Motors. 31-32

MARCOM
Training Materials 1942-1943

MARKAL
Markers 954, 1614-1615, 2428

MARKAR
Hardware. 2006
Hinges 2014

MARKEL PRODUCTS
Heaters 3070, 3074, 3076, 3078-3079

MARKS USA
Locking Systems 1980, 1985-1987

MARLIN STEEL WIRE PRODUCTS
Wire Baskets 1297

MARS AIR SYSTEMS
Air Curtains 2971

MARSH
Stencil and Marking Supplies 1403
Tape Dispensers 1396, 1398

MARSHALLTOWN
Abrasives. 892
Drywall Tools 889
Masonry, Concrete and Tile Tools. . . . 892-893

MARTEX
Bedding/Pillows. 1467-1468
Towels 1472-1473

MARTOR
Cutting Tools 811

MARVEL
Band Saws. 2349-2350
Ice Machines 3002
Ironworkers 2358
Mailroom Equipment 1349

MARVEL MYSTERY
Oil Additives. 897

MARVEL SCIENTIFIC
Drain Pumps 3002
Refrigerators/Freezers. 1463

MASON INDUSTRIES
Leveling Mounts 1222
Vibration Isolation Pads. 1223
Vibration Isolators 1221-1222, 2983, 2986

MASTER
Heaters 3083

MASTER APPLIANCE
Glue Guns 2238
Heat Guns 738-739
Heat Tools 234, 738-739
Microtorches 233
Soldering Irons 234
Torches 233

MASTER CASTER
Doorstops 2003
Wire and Cable Organizers 1338

MASTER FLASH
Flashing. 2963

MASTER LOCK
Key Boxes/Cabinets. 1967
Lockout Devices 1945-1953
Locks. 961
Locksets 1989
Padlocks 1955-1961
Safety Tags 1939
Tie-Down Equipment. 1102
Trailer Accessories. 961

MASTER MAGNETICS
Magnetic Tape/Sheets. 1926

MASTERCOOL
Evaporative Coolers. 3001

MAUDLIN PRODUCTS
Shims. 2181
Threaded Studs 2145
Tool Wraps 2185

MAURITZON
Hardware Supplies 1101

MAX
Rebar Tying and Cutting Power Tools. 716

MAXAIR PREMIUM
Tire Pumps. 955

MAXIM
Hydraulic Cylinders 2478-2479
Hydraulic Power Units 2474

MAXIT
Head Protection. 1642

MAXLITE
Lamps and Bulbs. 487, 489, 491

MAXWELL HOUSE
Coffee 1437

MAXXDRY
Shoe and Boot Warmers 1757

MAXXIMA
Automotive Lighting. . . . . .967-968, 970, ...972-973, 976-977, 979
Work Lights 967-968, 979

MAYHEW TOOLS
Inspection/Retrieval Tools 824
Probe Sets 2343
Prying Tools 823

MCDONNELL & MILLER
Flow Switches. 2687
Pump Repair Kits. 2687

MCKINNEY
Latches, Hasps and Hinges 2010

MCR SAFETY
Eye Protection 1656, 1662
Hand Protection. . . . . 1669-1670, 1674, ... 1678, 1680-1681, 1683, ... 1687-1690, 1692, 1701
Workwear 1672

MEAD
Notebooks 1355

MEASURETEK
Scales 1425-1429, 1477

MECHANIX WEAR
Hand Protection. 1684, 1693, 1695-1696

MECLINE
Check Valves 2694

MEDECO
Key Cabinets 1967

MEDI-FIRST
First Aid Supplies. 1829-1830

MEDIQUE
First Aid Supplies. 1829-1830, 1837

MEDSOURCE
First Aid/Rescue Equipment 1835

MEGACOMFORT
Insoles. 1756

MEGAMOVER
EMT and Rescue Supplies. 1821

MEGAPRO
Multibit Screwdrivers 801

MEGGER
Current Testers 545
Earth/Ground Resistance Testers. 555
Megohmmeters 553-554
Micro-Ohmmeters 553
Motor Rotation Testers. 555
Pipe and Cable Locators 565
Transformer Testers. 555

MEMMERT
Laboratory Ovens. 638

MEMPHIS GLOVE
Hand Protection. 1669, 1678, 1683

MENDA
Bottles 654

MEPCO/DUNHAM BUSH
Steam Traps. 2901-2902, 3038

MERCER CUTLERY
Knives and Utensils 1452

MERCOID
Transmitters. 581

MERIAM
Manometers. 572

MERIT
Bore Polishers 2381
Cartridge Mandrels 2381
Cartridge Rolls. 2381
Drum Sanding Kits. 2381
Flap Wheels 2380-2381
Grinding Wheels. 2389
Mandrels 2371, 2381
Power-Lock Holders. 2371, 2374
Rubber Drums 2381
Sanding Sheets/Discs 2373-2375
Shop Rolls 2368
Spiral Bands 2381
Spiral Rolls. 2381
Test Kits. 2381

MERSEN
Fuses. 177-180, 183-184
Power Distribution Blocks 393

MESA SAFE COMPANY
Safes 1968

METABO
Finishing Tools. 721-723
Grinders. 721-723, 737, 2359
Saws 736
Vacuum Cleaners. 1573

METAL BOX INTERNATIONAL
Desks. 1338

METALPRO
Ironworkers 2358

METALTECH
Scaffolds 1043-1044

METRIC BLUE
Screws 2055, 2116
Washers 2091, 2095

METRO
Carts 1147, 1149-1150, 1155-1157, 1172
Dunnage Racks 1252
Shelving . . . 1149, 1155-1156, 1247-1249, 1251
Wire Carts 1150, 1155, 1157, 1247

METROVAC
Blowers and Dryers 1354
Vacuum Cleaners 1572-1574

MEZIERE
Pumps 2691

MFG TRAY CO.
Tote Boxes 1292-1293
Trays 1293

MI-T-M
Pressure Washers 1587-1590
Rotary Surface Cleaners 1593
Vacuum Cleaners 1564

MICHIGAN BRUSH
Paint Equipment and Supplies 1616-1617

MICRO 100
End Mills 2281, 2283-2284, 2287-2290, 2293-2295, 2297
Thread Mills 2277, 2279

MICRO ESSENTIAL
Water Sampling 632

MICROFLEX
Hand Protection 1669-1672

MICROFRIDGE
Refrigerator/Freezer/Microwaves 1463

MID-WEST INSTRUMENT
Backflow Testers 2904

MIDLAND RADIO
CB Radios/2-Way Radios 2025, 2027, 2033
Weather Radios 2033

MIDWEST INDUSTRIAL PACKAGING (MIP)
Strapping Supplies 1419-1422

MIDWEST RAKE
Lawn and Garden Tools 999

MIGHTY LEAF
Teas 1437

MIGHTY LINE
Marking and Warning Tape 1902-1903

MILLER ELECTRIC
Air Cleaners 2408
Cylinder Carts 2411
Gas Mixers 2432
Hand Protection 2405
Head Protection 2405
MIG Guns 2414
Plasma Cutters 2422-2423
Regulators 2428-2429, 2435
Respirators 2407
Spool Guns 2413-2414
Spot Welders 2416
Torches 2420, 2430, 2433
Water Coolant Systems 2419
Welder/Generators 2412, 2416, 2418, 2421
Welder Running Gear 2411
Welders 2411-2412, 2416, 2418-2421, 2423, 2430-2431, 2433, 2435
Welding Accessories 2407-2408, 2411, 2413-2414, 2416, 2418-2420, 2423-2424, 2426, 2430, 2433, 2435
Welding Workstations 2426

MILLER FLUID POWER
Hydraulic Cylinders 2480

MILTON
Tire and Wheel Supplies 956

MILWAUKEE
Abrasives 737
Angle Drive Kits 697, 703
Annular Cutters 740
Clamp Meters 544
Cordless Tools 617, 673-685, 703, 863-864, 867-868, 870, 932, 987, 1004, 1570, 2500
Coring Rigs 673, 716
Crimping Tools 847
Cutters/Snips 816
Demolition Hammers 673, 713-715
Distance Meters 878
Drain Cleaners 673, 863-865
Drill and Impact Bits 698-701, 703-705, 712, 716
Drill Presses 740
Drills 697, 716, 740
Dust Extractors 1567
Electrical Power Testing 625
Finishing Tools 723
Grease Guns 932
Grinders 722-723
Hand Protection 685
Heat Guns 738
Hole Cutters 708, 851
Hole Saws 706-708, 851
Impact Wrenches 697
Infrared Thermometers 601-602
Inspection Cameras 617
Levels 882-883
Nibblers 726
Nut Drivers 804
Pliers 838, 840-842, 846
Sander/Grinder Guards 722
Sander/Grinders 721-722
Saw Blades 673, 720, 727-728, 734-736
Saws 673, 708, 726, 731, 733, 736, 886
Sawzalls 726
Screwdrivers 696, 801
Shears 726
Tape Measures 875
Temperature/Humidity Testing 592
Tool Sets 848
Tool Storage 754-755, 757
Voltage Detectors 545
Wet/Dry Vacuums 1563, 1570, 1575
Workwear 685
Wrenches 867

MILWAUKEE VALVE
Ball Valves 2862-2864, 2867
Butterfly Valves 2885-2886
Check Valves 2898-2899
Gate Valves 2887-2888
Globe Valves 2889

MINIGRIP
Bags 1409

MINT-X
Trash Bags 1561

MIRACLE LED
Socket Extenders 465

MISTY
Cleaners/Degreasers 1504, 1511, 1513, 1518

MITEE-BITE PRODUCTS
Clamps 2317-2318

MITUTOYO
Calibration Sets 2341
Calipers 2325-2326
Digital Scale Units 2335
Durometers 2341
Edge Finders 2336
Gages 2329-2330, 2336-2339
Indicators 2331-2333
Machinist Tool Kits 2330
Micrometers 2327-2329
Microscopes 2340
Parallels 2329
Precision Measuring Accessories . . . 2328, 2335
Protractors 2334
Punches 2337
Steel Rules 2335
Surface Testers 2341
Tachometers 2342

MITYVAC
Automotive Test Equipment 919-920
Oil Pumps 931

MJ MAY
Fabrics 2215

MK DIAMOND
Saws 717

MKT
Anchors 2163-2166, 2168, 2172

ML KISHIGO
Safety Vests 1725

MOBIL
Engine and Motor Oils 894-896
Grease 899, 2450-2452
Oils 898, 2454-2456, 2459, 2568
Transmission Fluids 897

MOBILE-SHOP
Tool Sets 745
Tool Storage 744-745

MOBILESPEC
Automotive Accessories 361
Electronics 533, 949

MOD
Containers 1301

MODMAG
Flowmeters 2684

MOEN
Faucets . . . 2733, 2736-2738, 2740-2742, 2748
Flush Valves 2753
Shower Fixtures 2744-2745

MOLD ARMOR
Stain Removers 1519

MOLDEX
Cleaners 1519
Ear Protection 1643, 1645-1647
Respirators 1760

MONARCH
Hydraulic Reservoir Tanks 2473
Hydraulic Valves 2473
Power Units 2473-2474

MONARCH INSTRUMENT
Cases 567
Dataloggers 580, 593
Reflective Tape 567
Sensors 567
Strobe Lamps 567
Stroboscopes 567
Tachometers 566-567
Vibration Meters 568

MONOPRICE
Electronics Accessories 351-352, 354-361, 949

MONROE PMP
Hinges 2013

MONSANTO
Soil Treatment and Weed Control 1003

MONSTER
Burs & Bur Sets 2298-2300
Drill Bits 2244
End Mills 2280, 2282-2284, 2288-2290, 2292-2297
Reamers 2258
Tool Blanks 2253

MONTEZUMA
Tool Storage 753

MOON AMERICAN
Fire Control Equipment 1818-1819, 2767

MORRILL
HVAC Motors 39-40

MORSE
Gauges 2351
Hole Cutters 708
Saw Blades 736, 2353-2354
Saws 706-708

MOSMATIC
Rotary Unions 2846

MOTOMCO
Repellents and Pest Control 1018

MOTOROLA
Radios 2024-2031

MOTSENBOCKER'S LIFT OFF
Cleaners/Degreasers 1517

MOVINCOOL
Air Conditioners 2662, 2995, 2997

MOYNO
Progressive Cavity Pumps 2647

MPD MEDICAL
Safes 1968

MR. CHAIN
Access Barriers and Crowd Control 2043

MR. CLEAN
Cleaners/Wipes 1513, 1515, 1524

MSA
Communication Systems 1649
Ear Protection 1648-1649
Face Protection 1639
Gas Detectors 1780
Head Protection 1635-1638, 1648
Respirators 1762, 1765, 1773, 1775

MSSC
Marker and Print Supplies 1403

MUCK BOOTS
Footwear 1743

MUELLER
Fittings 2796-2798, 2808, 2818, 3094

MUELLER STEAM SPECIALTY
Check Valves 2900
Strainers 2895-2897

MUELLER/STREAMLINE
Pipe and Tubing 2847

MULTIFAN
Exhaust Fans 2928
Fans and Air Circulators 2917, 2921
Speed Controls 2917
Thermostats 2928

MUSTANG SURVIVAL
Water Safety Equipment 1809

MUSTEE
Shower Stalls 2746
Sinks 2725, 2729

MYSTIK
Lubricants 896, 898-899

N

NANUK
Protective Cases 1304

NAPCO
Security Alarms and Warnings 2051-2052

NASCO
Workwear 1728

NASHUA
Tape 1385, 1387

NASHVILLE WIRE
Bulk Containers 1299
Decking 1229, 1234

NATIONAL GUARD
Doors and Door Frames 2002
Hardware 2001
Weatherstripping 1999-2001

NATIONAL PUBLIC SEATING
Carts 1341
Chairs 1340-1341
Stools 1335
Tables 1340

NATIONAL RECREATION SYSTEMS
Outdoor Furniture 1482

NATIONAL SAFETY APPAREL (NSA)
Arc Flash Protective Equipment 1707, 1709, 1714
Hand Protection 1687, 1702, 1715
Workwear . . . . . 1686, 1708, 1712, ... 1715-1716, 1733

NATULAR
Pest Controls 1023

NAUGATUCK
Float Balls 2911

NAUTILUS SAFETY FOOTWEAR
Footwear 1751

NDS
Valve Accessories 2907

NEENAH
Papers 1356

NELSON
Hoses and Irrigation Systems 1012-1014

NELSON WRAP
Stretch Wrap Dispensers 1417

NEOPERL
Faucet Aerators 2750

NEOS
Footwear 1745

NEOSPORIN
Antibiotic Ointment 1829

NEW AGE
Carts and Trucks 1165, 1448
Shelving and Storage Racks 1252

NEW PIG
Aerosol Can Recycling Equipment 1864
Spill Control Supplies . . . . . 1845, 1847-1849, ... 1855, 1857-1859, 1943

NEWBORN
Dispensing Guns 2219, 2233-2234

NEWCO
Valves 2898

NEWCO COFFEE
Food Service Appliances and Equipment 1439

NEWSTRIPE
Aerosol Can Recycling Systems 1606

NEXUS
Gas Heaters 3086

NIAGARA
Bottled Water 1826

NIBCO
Ball Valves 2865
Copper Straps 2796
Fittings 2795-2800
Gate Valves 2887-2888
Globe Valves 2889

NICHIRYO
Pipetters 659

NICHOLSON
Files 818, 820
Pipe Fittings 2780
Steam Traps 3038

NIGHT SEARCHER
Jobsite Lighting 520

NIGHTSTICK
Hand and Portable Lamps 522

NILFISK
Vacuum Cleaners . . . . . 1564, 1566, ... 1570-1573, 1575

NIROFLEX
Hand Protection 1679

NITE IZE
Flashlights 529, 531

NO BUTTS BIN CO.
Receptacles and Containers 1552

NO LEAK PREMIUM SEALERS
Oil Additives 897

NOBLES
Floor Machines 1577-1579, 1581-1582
Sweepers 1580
Vacuum Cleaners 1569-1570, 1580-1581

NOCO
Automotive Chemicals 909, 922
Automotive Interior Accessories 949
Battery Accessories 927
Battery Chargers 927

NOGA
Indicator Holders 2333

NOKORODE
Soldering and Welding Supplies 2618

NOR-LAKE SCIENTIFIC
Refrigerators/Freezers 637

NORCROSS
Overshoes 1745

NORD
Gearmotors 77
Speed Reducers 90

NORD-LOCK
Lock Washers 2093

NORDFAB
HVAC Duct 3098-3099

NORM-JECT
Lab Syringes 660

NORTECH
Vacuum Cleaners 1565

NORTH AMERICAN TOOL
Taps 2268

NORTH STAR
Water Softeners 2702

NORTHLAND MOTOR TECHNOLOGIES
Brushless Blowers 38

NORTHWEST
Binoculars 2041

NORTON
Abrasive Belts 2364-2365
Abrasive Discs . . . . . 2370-2373, ... 2375-2379, 2382, 2385
Abrasive Rolls 2368
Abrasive Sheets 2366, 2368
Abrasive Sponges 2369
Abrasive Wheels 737, 2382-2388, 2391
Backup Pads 2376, 2392
Disc Backup Pads 2374, 2376
Door Closers and Openers 1990, 1992
Flap Wheels 2380, 2382
Grinding Wheels . . . . . 737, 2370, ... 2383-2388, 2391-2392
Hand Pads 2367, 2369
Rotary Tool Points 2391-2392
Sharpening Stones 2393
Wire Brushes 2396, 2400

NOTRAX
Footwear Accessories 1890
Mats 1705, 1890, 1892-1893, 1895-1899

NOVA
Restroom Equipment 1493

NOVAVISION
Packaging Tape 1395

NTN
Bearings 134-135, 137-138, 140-141

NU-CALGON
HVAC-R Adhesives and Sealants 3012
HVAC-R Cleaners and Chemicals . . . 3011-3013
Leak Detectors/Repair Kits/Testers 3012
Lubricants 3012
Refrigerant Oils/Oil Pumps 3012
Scale Removers 3012
Sprayers 3011

NU-DELL
Sign Holders 1372

NU FINISH
Automotive Cleaners 910

NUMATICS
Air Valves 2542-2544
Filter Elements 2593
Pressure Regulators 2543-2544

NUPLA
Fire/Rescue Tools 1007, 1820
Hammers and Striking Tools 825, 827-828, 999
Lawn and Garden Tools . . . 997-999, 1008-1009
Logging Tools 1007
Prying Tools 999
Utility Tools 1009

O

O2COOL
Fans 2924

OAKTON
Water Quality Meters 627-631

OASE
Pumps 2639

OASIS
Air Compressors 2559
Water Dispensers 2721

OATEY
Drains 2723
Flashings 2724
Pipe Fittings 2724
Pipe Sealants 2819-2820
Toilet Repair Parts 2757
Welding/Soldering Supplies 2618

O.C. WHITE COMPANY
Task Lights 515, 517

OCCUNOMIX
Ergonomic Supports 950, 1706
Hand Protection 1673
Head Protection 1636, 1638
Workwear 1726

ODD BALL INDUSTRIES
Restroom Equipment 2761

ODOBAN
Deodorizers 1505-1506
Disinfectants 1505
Janitorial Equipment/Supplies 1506, 1517, 1524

OETIKER
Hose Clamps 2534, 2805
Jaw Pincers 2534

OFF
Repellents and Pest Control 1022

OFFICE SNAX
Snack Foods and Beverages 1437, 1440

OFFICE STAR
Furniture 1336

OFFICEMATE
Breakroom Storage 1443
Cubicle Wall Accessories 1358-1359
Office Products 1359-1361, 1363
Partition Hangers 1358
Wall Pockets 1358

OHAUS
Lab Equipment 627, 644, 646-648, 657
Scales 644, 1425-1430

OIL-DRI
Spill Containment Supplies 965, 1845

OIL EATER
Cleaners/Degreasers 908-909
Parts Washers 939

OIL SAFE
Lubricant Storage Systems 2461

OK INDUSTRIES
Soldering Equipment 232

OLD ENGLISH
Polishing and Dusting 1518

OLDHAM
Saw Blades 734

OLFA
Cutting Mats 814
Cutting Tools 808-810, 814-815, 888
Snap-Off Knives 808-811

OLO
Utility Knives 809

OMEGA
Automotive Maintenance Tools . . . 940, 945, 956

OMNITEC DESIGN INC
Electric Heaters & Accessories 3070

OMRON
Cables 224
Counters 226
Limit Switches 265, 271
Power Supplies 211
Programmable Relays 224
Relay Batteries 224
Relay Heat Sinks 219
Relay Memory Cassettes 224
Relay Sockets 216
Relays 215, 217, 219, 223
Sensors 281, 286
Support Software 224
Switches 270, 273, 278
Temperature Controls 229
Timers 421

OMRON STI
Control Enclosures 275
Emergency Stop Switches 274-275, 278
Light Curtains 278
Relay Sockets 277
Relays 277
Safety Interlock Switches 276
Safety Mats 278

ONGUARD
Footwear 1741, 1745-1746

ONSRUD
End Mills 731, 2281, 2288-2289, 2297

OPS
Dispensers 1488
Paper Products 1488

OPTREL
Head Protection 2406

ORALITE
Reflective Tape 964

ORBIS
Containers 1292, 1295, 1300
Dollies 1292, 1300

ORECK
Vacuum Cleaners 1568, 1573, 1575

OREGON
Lubricants 900

ORGAPACK
Strapping Supplies 1421

ORION
Drain Components 2725
Sinks 2725

OSBORN
Paint Equipment and Supplies 1616-1617

OSG
Dies 2276
Drill Bits 2245-2247, 2258
End Mills 2280-2294, 2297
Taps 2266-2275
Thread Mills 2277-2278

OSM
Soil Treatment and Weed Control 1003

OSTER
Kitchen Appliances 1459

OTC
Automotive Diagnostic Tools 920-921
Automotive Repair Lifts 941-943
Automotive Tools 912-920, 943-944, 953, 962, 2173
Battery Testers 921-922
Bearing Separators 912
Compression Testers 920
Dollies 944
Engine Stands 943
Jacks 940-942
Oil Transfer Tanks 931
Pin Pushers 914
Pumps 946
Shaft Protector Sets 913

OWENS CORNING
Insulation 2832

OZ LIFTING PRODUCTS
Cables 1064
Cranes 1064
Hoists 1054, 1057-1058, 1064

P

PAC-KIT
First Aid Equipment/Supplies 1831-1832

PAC STRAPPING PRODUCTS
Strapping Supplies 1421-1422, 1424

PACIFIC BLUE ULTRA
Paper Products 1486, 1494
Restroom Equipment 1486

PACIFIC HANDY CUTTER
Knives/Cutters 808-809, 811, 888
Tool Holsters/Pouches 811

PACIFIC HELMETS
Fire and Rescue Helmets 1807

PACKARD
Draft Inducers 3104
Pumps 2631

PACTIV
Food Service Disposables 1436

PALADIN TOOLS
Wire Strippers and Cutters 846

PALMETTO
Compression Packing Seals/Tools 2699-2700

PALMGREN
Gauges 2424
Jack Screws 2329
Saws 736
Vises 831-832, 2329, 2346

PALMOLIVE
Dishwashing Detergents 1515

PANASONIC
Fans and Air Circulators 2943

PANAVISE
Vises 833

PANDUIT
Cable Clips 303, 410
Cable Equipment 354, 356
Cable Organizers 354
Cable Ties 408-411
Clamps 410
Nylon Rivets 303
Wire and Cable Installation Tools 303, 407, 411
Wire/Cable Abrasion Protection 300, 407
Wire Connectors 356, 383-386
Wire Crimping Tools and Supplies 384, 386
Wiring Duct 303

PAPERMATE
Pencils 1364
Pens 1366

PARAGON
Refrigeration Controls 3018
Timers 3018

PARKER
Accumulators 2494
Air Valves 2544-2547
Bag Filters 2711
Ball Valves 2476, 2860
Cartridge Valves 2475
Check Valves 2476
Compressed Air Dryers 2589
Compressed Air Treatment 2571, 2589, 2592-2593, 2598-2600
Crimpers 2484
Drain Cock Valves 2914
Electric Pressure Switches 2600
Expansion Valves 3019
Filter Cartridges 2708-2710
Filter/Dryers 3015
Filter Housings 2710
Fuel Filters 2710
Hose Fittings 2484, 2490, 2520-2521
Hoses 2484
Hydraulic Breathers 2495
Hydraulic Filter Carts 2492
Hydraulic Filter Elements 2492
Hydraulic Filters 2492
Hydraulic Valves 2476-2477
Instrumentation Fittings 2787, 2795, 2857-2860
Instrumentation Valves 2860-2861
Insulation Tape 3012
Leak Detectors 3012
Lubricants/Oils 2492
Manifold Gauges 3005
Needle Valves 2476, 2913
O-Ring Kits 2494
Pipe Fittings 2780, 2793, 2853
Pneumatic Tool Kits 2586
Refrigeration Dryers 3015
Relief Valves 2476
Sealing Tape 3012
Sight Glasses 3013
Solenoid Valves 2477, 3017
Test Kits 2491
Tubing 962, 2586
Tubing Fittings 962, 2586, 2849, 2851, 2853-2856

PARKER GRESEN
Hydraulic Equipment 2476-2477

PARKER HANNIFIN
Hydraulic Valves 2477
Solenoid Valves 2880
Tubing 2586, 2617

PARKER VIRGINIA
HVAC Tape 3012

PASLODE
Pneumatic/Power Tools 2496-2498

PATTERSON
Fans and Air Circulators 2917, 2919, 2921-2922

PAWLING CORP
Door/Wall Hardware 2006
Guardrails/Handrails 2006

PC PRODUCTS
Caulk Guns 2234
Concrete Repair Materials 1632-1633
Epoxy 1632, 2220

PDI
Cleaners/Degreasers 1512

PEAK
Automotive Fluids 896, 903

PECO
Temperature Controls 3024-3025, 3028
Thermostats 3022

PEERLESS
Chains and Wire Ropes 1072-1073
Televisions and Video Displays 2022
Tire Chains 957
TV/Speaker Mounts 2022-2023

PEET
Clothing/Footwear Dryers 1757

PELICAN
Batteries 533
Flashlights 524, 526-531
Jobsite Lighting 520
Portable Coolers and Beverages 1827

PEMKO
Door Hardware 1999, 2012

PENBERTHY
Gauge Cocks 2913
Sight Glasses 2912

PENDAFLEX
Folders 1361

PENFLEX
Hose Assemblies 2607

PENN MACHINE WORKS
Fittings 2781

PENNZOIL
Automotive Oils 894-895, 897

PENTAIR
Filters 2703-2704, 2706-2711

PENTEL
Office Supplies 1364

PERFECT EQUIPMENT
Wheel Weights 952

PERFECT SENSE
Thermostats 3021, 3023-3024

PERMA-PATCH
Asphalt Patching 1631

PERMATEX
Sealants 905, 2224, 2226-2227

PETROCHEM, INC. (D)
Grease 2451
Lubricants and Penetrants . . . 2438-2439, 2441
Oils 2440, 2454-2456

PETZL
Fall Protection Equipment 1808
Head Protection 1637
Ropes 1098
Search and Rescue Equipment 1098, 1807-1808

PEWAG
Chain Slings 1071, 1074

PF HARRIS
Repellents and Pest Control 1022

PHASE-A-MATIC
Phase Converters 209

PHCC PRO SERIES
Pumps 2621, 2627-2629

PHILIPS
Lamps and Bulbs 480-498, 500-501, 505-510
Lighting Fixtures 430, 432, 434, 461, 463-464
Task Lights 518

PHILIPS ADVANCE
Ballasts 472-478
HID Capacitors 478
LED Drivers 471

PHILIPS DAY-BRITE
Light Panels 431

PHOENIX INTERNATIONAL INC.
Welding Ovens 2417

PHOENIX USA, INC.
Battery Accessories 923

PHYSICIANSCARE
First Aid Equipment/Supplies 1829-1831, 1839

PHYSIO CONTROL
AED 1838

PIC
Gauges 579

PILA
Floodlights 459
Light Panels 431
Wall Packs 454

PILOT
Pens 1366

PINE-SOL
Cleaners/Degreasers 1513

PINNACLE
Scales 1426

PIPE-PRO
Plasma Cutting Equipment 2425

PLANO MOLDING
Shelving 1251
Tool Storage 747
Compartment Storage Boxes 1302-1304

PLAST-O-MATIC
Gauge Guards 2913
Solenoid Valves/Coils 2882

PLASTEC
Blowers 2987

PLASTICADE
Traffic Safety Products 1908

PLASTICOVER
Carpet/Floor Protectors 1099-1100, 1623

PLATO
Soldering Equipment 232

PLEDGE
Cleaners/Polishes 1518
Wipers 1518

PLEWS-LUBRIMATIC
Funnels 930
Lubricants 895, 899, 2453
Pumps 936

PLIOBOND
Adhesives 2228

PNEUMADYNE INC.
Manifolds 2852

POLAR
Automotive Fluids 903

POLAR PLASTICS
Poly Sheeting 1099

POLAR TECH
Shipping Supplies 1402

POLARIS
Connectors 390

POLYCO
Workwear 1730, 1732-1734

POLYJOHN
Hand Wash Stations 2729

POLYKEN
Tape 1385-1387, 1391

POLYMERSHAPES
Plastics 440, 2209-2214

POLYSCIENCE
Chillers, Circulators, and Baths 640

POMONA
Component Boxes 561
Electronic/Bench Testing 561

POND BOSS
Pond Accessories 2639

POOPY POUCH (D)
Pet Waste Stations 1554

POP AVDEL
Rivet Tools 2505-2506
Rivets 2132-2135
Thread Inserts 2142

POP SECRET
Snack Foods 1441

PORT A COOL
Evaporative Coolers 2998-2999

PORTA-FAB
Structures and Sheds 1312

PORTA-KING
Structures and Sheds 1310-1312

PORTALS PLUS
Roof Flashing 2963
Roof Repair Kits 2963

PORTER CABLE
Air Compressors 2559
Cordless Tools 694-695
Finishing Tools 723, 725
Heat Guns 738
Nailer/Compressors 2496
Nailers 2496-2497
Power Saws and Accessories 726, 730
Routers 729, 731
Staplers 2501

POSI LOCK
Automotive Specialty Tools 913-914, 916

POST-IT
Flags 1357
Message Boards 1367
Notes 1357
Wall and Easel Pads 1372

POTTER ROEMER FIRE PRO
Fire Protection Equipment 1880

POWER BREEZER
Fans and Air Circulators 2921

POWER DRIVE
Bushings 115
Couplings 122
Idlers 120
Inverters 929
Tighteners 120
Timing Belt Pulleys 114
V-Belt Accessories 105

★POWER FIRST
Appliance Cords 400
Cable Connectors 351, 381, 389
Cable Covers 404-405
Cable Ties 408
Circuit Interrupters 402
Conduit 314
Cover Plates 259
Crimping Tools 383-384
Electrical Tape 374
Extension Cords 399-400, 402
GFCI Power Centers 413
Inverters 929
Locking Cord Adapters 400
Plug Adapters 400
Power Strips 403
Power Supply Cords 400-401, 413
Power Tool Cords 400
Shrink Tubing 376-378
Straight-Blade Devices 328
Surge Protection Devices 402-403
Switches 259, 262
UPS Systems 214
Wire Connectors 383-387

POWER SERVICE PRODUCTS
Automotive Fluids 896

POWER XP
Batteries 534
Card Reader Cleaning Cards 534

POWERFLARE
Traffic Safety Equipment 1906

POWERMATIC
Band Saws 2350
Belt/Disc Sanders 2361-2362
Drill Presses 2345
Dust Collectors 2363
Routers 2297

POWERMOON
Jobsite Lighting 519

POWERS
Mixing Valves 2909
Shower Fixtures 2745, 2747

POWERS CONTROLS
Pneumatic Controls 3040-3041

POWERS FASTENERS
Fasteners 2164
Sleeve Anchors 2165

POWERTWIST
Power Transmission Belts 96

PRATT & LAMBERT
Paints 1595-1597

PRECISION BRAND
Coatings and Wraps 2185
Shims 2179-2180
Thickness Gages 2180

PREMIER PAINT ROLLER
Paint Supplies 1605, 1616, 1619, 1621

PREMIERE/PREMIERE PRO
Ice Melter Compounds 994

PRESCO PRODUCTS
Marking Flags/Tape 1907

PRESTO LIFTS
Material Lifts 1179-1180

PRESTONE
Antifreeze/Coolants 904
Windshield Washer Fluids 902

PRIMEWARE
Food Service Disposables 1435

PRINCE
Hydraulic Cylinders 2478-2479
Hydraulic Valves 2476-2477

PRINCETON TEC
Flashlights 523-524, 526, 528, 530

PRO-LINE
Packing Tables 1399
Workbenches 1319-1320, 1322

PRO PRODUCTS
Water Treatment Chemicals 2702

PRO SCIENTIFIC
Laboratory Equipment 646, 648, 651

PRO SEAL
Sealants 2227

PRO-TEMP
Heaters 3070

PRO1 IAQ
Thermostats 3020-3023

PROBUILT
Jobsite Lighting 520-521

PROCON
Rotary Vane Pumps 2698

PROFLEX
Ergonomic Supports 1705-1706

PROGRESS
Outdoor Area Fixtures 463

PROGRIP
Tiedowns 1105

PROMAX
Soil Treatment and Weed Control 1003

PROMAXIMA
Exercise Equipment 1477

PROPEL
Sports Drinks and Thirst Quenchers 1825

PROSHIELD
Workwear 1672, 1736

PROSPEC
Mortar 1632
Sealants 1632

PROTEAM
Vacuum Cleaners 1569-1571

PROTECT-A-BED
Bedding Encasements 1469

PROTECTA
Fall Protection Equipment
. . . 1788, 1790, 1793, 1802-1803, 1805-1806

PROTO
Automotive Diagnostic Test Kits 918
Automotive Tools 918-920, 922, 931
Battery Chargers 925, 927
Chisels and Punches 821-822
Creepers/Shop Stools 945
Cutting Tools 870
Drywall Tools 823
Gear and Bearing Separators 912
Grease Guns 932
Hammers and Striking Tools 826-828
Hex Keys 805-807
Impact Drivers 776
Inspection and Retrieving Tools 824
Master Tool Sets 758
Multi-tools 814
Pliers 838, 840-844, 859, 919
Prying Tools 823
Pullers 912-915
Ratchets 768-769, 771-772, 860
Screw Extractors 802
Screwdriver Bits 767, 801
Screwdrivers and Nut Drivers . . . 798-801, 804
Sockets 759-781, 795, 860
Tape 859
Tethered Tools 757, 858-859
Tool Sets 758
Tool Storage 741-743, 745-746, 858-859
Torque Multipliers 786
Torque Wrenches 782-785, 859
Wire Strippers and Cutters 846, 859
Wrenches 768-769, 771-772, 775-776, 782, 787-788, 790-797, 858-859, 867, 917

PROTOCOL
Work Stands 886

PROVON
Dispensers 1496
Personal Care Products 1496

PROXIMITY
Level Switches 581

PS DOORS
Doors/Gates 1313

PSE AMBER
Automotive Lights 972-975

PULS
Power Supplies 211

PULSAFEEDER
Chemical Metering Pumps 2688
Degassing Valves 2688
Flowmeters 2684

PURDY
Paint Equipment and Supplies 1616, 1618

PURE CITRUS
Deodorizers 909

PURELL
Cleaning Chemicals 1510
Dispensers 1499
Personal Care Products 1497, 1499-1500

PUREX
Detergents 1516

PURLOGIX
Water Dispensers 2721

PURTEST
Water Testing Kits 1480, 2702

PYRAMEX
Eye Protection 1658

PYRAMID
Time Clocks 1375

PYROIL
Automotive Fluids 897, 899, 901-902
Lubricants 901

Q

QA1
Rod Ends 132

QEP
Carpet Installation Tools 891
Flooring Tools 891
Grout Removal Tools 891
Mud Mixers 891
Saws 717

QMARK
Heaters 3068, 3070, 3072-3079
Switches 3077
Thermostats 3072, 3075
Transformer Relays 3075

QORPAK
Laboratory Supplies 645, 652-653, 657

QUAKEHOLD!
Earthquake Safety Devices 2171

QUAKER
Snack Foods 1441

QUAKER STATE
Lubricants 894-895

QUALITY PARK
Envelopes 1361

QUANTUM STORAGE SYSTEMS
Bins 1280-1282, 1284-1289, 1291, 1294, 1297
Carts 1156
Floor Stands 1289
Louvered Panels 1280-1281
Racks 1280-1282, 1284, 1289, 1291
Rail Units 1280-1281
Shelving 1246, 1282, 1284-1285, 1287-1288, 1291
Tote Boxes 1292, 1297

QUARTET
Bulletin/Letter Boards 1370, 1373
Dry-Erase Boards/Supplies 1367-1371
Easels 1371
Projection Equipment 1353
Signs 1372

QUICK CABLE
Battery Accessories 923-924, 927-928
Electrical Equipment/Supplies 922-924

QUICKIE
Brooms, Brushes, and Dust Pans . . . 1539-1540
Wet Mops, Squeegees, and Buckets 1531

QUICKSILVER
Lubricants 895

R

R&R TEXTILE
Bed, Bath and Table Linens
. . . . . 1467-1468, 1472-1473

RACO
(See Hubbell/Raco)

RADIA
Agitators/Mixers 1605

RADIANS
Eye Protection 1659

RADIONIC INDUSTRIES
Emergency/Exit Lights 428
Lighting Fixtures 440

RAE PRODUCTS
Paints 1612
Sealers 1612
Thinners 1612

RAID
Repellents and Pest Control 1023

RAILHEAD GEAR
Flashlights 527
Vehicle Work Lights 969, 972-973

RAIN BIRD
Irrigation Systems 2764

RAIN-X
Automotive Detailing Supplies 909
Windshield Washer Fluid 909

RAMPAGE
Repellents and Pest Control 1018

RAMSET
Gas-Powered Nailers 2169

RANCO
Heat Pump Valves 3092
Pressure Controls 3016, 3018
Refrigeration Controls 3019
Refrigeration Fittings 3010
Solenoid Coils 3092
Temperature Controls 3019, 3025-3026

RANGER
Footwear 1741

RAPTOR
Dovetail Fixtures 2318

RATCH-CUT
Pipe Cutters 870

RAYCHEM
Heating Cables 3067
Tubing 376-377

RAYMOND
Dollies 1192
Trucks 1163

RAYOVAC
Batteries 532-534
Flashlights 531

RAYTECH
Ultrasonic Cleaners 642

RAYTEK
Infrared Thermometers 602
IR Temperature Sensors 603
Process Meters 603

RAZOR-BACK
Ice/Snow Removal Tools 993
Lawn and Garden Tools 997-999

RCA
Televisions 2021-2022

RE-VERBER-RAY
LP Gas Heaters 3082

READY AMERICA
Emergency Preparedness 1837

REAR VIEW SAFETY
Camera Systems 949

RECOIL INC.
Taps 2141
Thread Inserts and Tools 2138

RECTORSEAL
Lubricants 2443-2444
Sealants 2224

RECYCLEPAK
Recycling Containers 511-512, 533

RED DEVIL
Agitators/Mixers 1605

RED-HAT
Solenoid Coils 2883
Solenoid Valves 2874-2884

RED HEAD
Anchors 2161, 2164-2167, 2172
Nozzles 2172

RED KAP
Workwear 1718, 1721-1723

RED LION
Encoders 357
Panel Meters 225-227
Pumps 2631
Temperature Controllers 229

REDINGTON
Counters 227-228
Gaskets 228
Hour Meters 228

REEBOK
Footwear 1750, 1754

REED INSTRUMENTS
Meters 569

REELCRAFT
Cable/Cord Reels 397, 2526
Hose Reels 2435, 2523-2529
Hoses 2435, 2529

REESE
Automotive Towing Supplies 958-959, 961, 972
Jacks 942, 960

REFRESH
Deodorizers 909

REFRIGIWEAR
Workwear 1642, 1719

REGAL
Taps 2267

REGAL CUTTING TOOLS
Taps 2267

REGENCY
Furniture 1337, 1341

REGIN HVAC PRODUCTS
Smoke Emitters 3096

REICHERT
Refractometers 626

REIKU
Locknuts 407
Tubing/Connectors 407

REMCO
Food Processing and Specialty Tools 1457
Hoppers and Tubs 1457
Janitorial Equipment 1547
Scrapers 1457
Tool Organizers 1547

RENEWABLE LUBRICANTS
Cleaner/Degreasers 2446-2447
Engine Oils 894-895
Lubricants and Penetrants 2438, 2441
Metalworking Fluids 2458, 2460
Oils 898, 2454, 2456, 2568

RENFROE
Lifting Equipment 1065

RENUZIT
Deodorizers 1506

REPEL
Repellents and Pest Control 1022

REPELLEX
Repellents and Pest Control 1018-1019

RESOLVE
Carpet/Laundry Stain Removers 1517

REVCOR
Blower Wheels 2988
Fan Blades 2950-2951

REVOLUTIONARY SCIENCE
Laboratory Equipment 638

REYNOLDS
Aluminum Foil 1449

RHEEM
Water Heaters 2712-2716

RHEEM-RUUD
Water Heaters 2712-2713, 2715-2716
Water Storage Tanks 2715

RHINO CART
Welding Workstations 2426

RIB RELAY IN A BOX
Relays 220-221
Transformers 205

RICCA CHEMICAL
Laboratory Chemicals 632, 634

RICE LAKE
Scales 1430

RICHARD
Paint Equipment and Supplies 1620

RIDGID
Crimpers 847, 853, 2800
Drain Cleaners 863-865
Inspection Cameras 866
Pipe Extractors 871
Pipe Freeze and Thaw Tools 874
Pipe Locators 866
Pipe Stands 874
Pipe/Tubing Cutters 817, 869-870, 873
Pipe/Tubing Threaders 872-874
Pressing Tools 853, 2800, 2805
Reamers 871, 873
Soldering Guns 874
Taps 2268
Test Pumps 874
Threading Dies 872-873
Tubing Tools 868
Underground Utility Locators 565
Vises 831, 874
Wrenches 867, 871

RINGERS GLOVES
Hand Protection 1814

RIP-TIE
Cable Ties 411

RISLONE
Automotive Additives 897

RITE IN THE RAIN
Office Supplies 1355, 1364

RITRON
2-Way Radios 2025, 2034
Call Boxes 2034
PA Speaker Systems 2037
Wireless Alert Systems 2034

RITTAL
Electrical Enclosure Heating/Cooling Systems 298, 301
Enclosure Accessories 298

RIXSON
Door Hardware 2011
Electromagnetic Locking Systems 1976

ROADPRO
Automotive Accessories 949-950

ROBERTS
Adhesives 891
Flooring Tools/Supplies 891

ROBERTSHAW
Electric Cooking Controls 3032
Gas Burner Controls 3032-3034
Gas Burner Ignitors 3032-3034
Pilot Burner Tubing 3034
Pressure Sensing Switches 3046
Refrigeration Controls 3019
Thermostats 3032
Transformers 3033
Valves 3032
Vibration Switches 174

ROBINAIR
HVAC Gages 3009
HVAC-R Service Equipment 918, 946, 3007-3008, 3013

ROBOT COUPE
Kitchen Equipment Replacement Parts . . . 1461

ROCKITE
Anchor Patching Cement 1631

ROCKWOOD
Hardware 1998, 2003-2006

ROCKY MOUNTAIN TWIST
Drill Bits 2253

ROLAIR
Air Compressors 2559-2560, 2569

ROLATAPE
Measuring and Layout Tools 877, 1611

ROMEX
Cables 345

RON CRANE SCALES
Scales 1065

RONSTAN
Chain/Links 1073
Pulley Blocks and Sheaves 1088, 1090
Shackles 1067

ROPE RATCHET
Rope Tie-Downs 1102

ROTELLA
Lubricants 895-896

ROTHENBERGER
Deburring Tools 871
Drain Cleaners 864
Flaring Tools 868
Inspection Cameras 866
Pipe Clamps 2847
Pipe Freezing Sprays 874
Pipe Locators 866
Pipe/Tubing Threaders 872-873
Tubing Benders 868
Tubing Cutters 869-871
Vises 874
Wrenches 867, 871

ROTO ZIP
Power Saws and Accessories 729

ROUNDUP
Soil Treatment and Weed Control 1003

ROXUL
Pipe Insulation 2836

ROYAL BASKET
Carts/Trucks 1160, 1162, 1172

ROYAL PRODUCTS
Centers 2348

RUBBER FAB
Gaskets 2789

RUBBERMAID
Baby Changing Stations 1495
Bath and Shower Mats 1473
Bins 1292, 1451
Carpet Bonnets 1583
Carpet Sweepers 1569
Carts 1147-1149, 1158, 1172, 1526
Deodorizers 1507
Dollies 1556
Faucets 2734-2736
Flushometers 2753
Food Servers/Storage Containers 1450
Food Service Racks 1448
Housekeeping Carts 1526, 1535
Janitorial Equipment/Supplies 1492, 1525-1526, 1528-1535, 1537-1540, 1542, 1550, 1553
Laundry Supplies 1535
Measuring Cups and Spoons 1454
Receptacles and Containers 1525, 1552-1558
Recycling Containers 1558
Restroom Equipment 2736
Safety Barricades 1527
Safety Cones 1527
Scales 1427, 1429
Scoops 1451
Signs 1527
Spill Containment Supplies 1527
Storage Containers and Totes 1295-1297, 1304
Storage Sheds 1309
Trash Bags and Liners 1555-1556
Trucks 1159-1161, 1166, 1168

RUD CHAIN
Lifting Points 1069

RULAND
Couplings 125-126
Shaft Collars 122-124

RULE
Pumps 2620, 2631, 2640, 2676

RUST-OLEUM
Activators 1602
Adhesives 1622

Chalk 1610
Cleaners/Degreasers 906
Coatings 907, 1599-1604, 1634
Concrete Repair Materials 1631-1633
Galvanizing Compounds 1603, 1606
Paint Thinners/Removers 1613
Paints 906-907, 1599-1601, 1604, 1612
Primers 906, 1599-1600, 1606-1607
Rust Removers 1600
Spray Paints 907, 1604, 1606-1608, 1610-1611
Striping and Marking Applicators 1611

RUSTLICK
Corrosion Inhibitors 2445
Metalworking Fluids 2460

R.W. ROGERS COMPANY
Shopping Baskets/Carts 1148, 1166, 1171

RWM
Casters 1202-1203, 1206

S

S & W
Leveling Mounts 1224-1225

SAFCO
Furniture 1335

SAFE AWAKE
Safety Alarms and Warnings 1882

SAFE GLOW
Signs 1923

SAFETY SPEED
Saw Blades 734
Saws 733

SAFETY TECH OUTRIGGER PAD
Automotive Equipment 944

SAFEWAY
Hydraulic Couplers 2489

SAFTCART
Carts and Trucks 1184, 1187-1188

SAINT-GOBAIN
Norprene Tubing 2618
Tygon Tubing 2613-2614
Tygothane Tubing 2616

SAIT
Abrasives 737, 2384-2388

SAKRETE
Concrete Cleaners and Dissolvers 1631
Patching Compounds 1631-1633

SALSBURY INDUSTRIES
Lockers 1261
Mailboxes 1969

SALTDOGG
Spreaders 951

S.A.M.
Snowplow Repair Parts 898, 950

SAMMY'S
Fasteners 2147
Hand Tools 2147

SAMSILL
Notepad Holders 1355

SAMSUNG
Televisions 2021

SAN JAMAR
Food Servers/Dispensers 1434

SANDPIPER
Pumps 2627, 2631, 2664, 2666

SANDUSKY
Cabinets 1270-1271, 1275
Office Furniture 1271-1274
Shelving and Storage 1251
Trucks 1349

SANI-LAV
Faucets 2727, 2743
Food Processing Tools 1456
Hoses 2743
Nozzles/Foamers 2743
Sinks 2727-2729

SANIGUARD
Bathroom Hardware 2759

SANITAIRE
Carpet Spot Extractors 1578
Vacuum Cleaners 1568-1569, 1571

SARGENT
Door Closers 1991
Exit Devices 1995
Locksets 1981, 1986-1987

SATCO
Ballasts 475
Lamps 487, 489-492, 494-495

SAUNDERS
Binders 1382
Clipboards 1382

SAWSTOP
Power Saws and Accessories 733-734

SCHAEFER
Fans and Air Circulators 2915, 2918, 2920

SCHAEFER SYSTEMS INTL. (SSI)
Containers 1289, 1294, 1298

SCHLAGE
Locking Systems 1973, 1976, 1978
Locksets 1981, 1987, 1989

SCHNEIDER ELECTRIC
AC Drives 155-156
Circuit Breakers 193-195
Connector Cables 224
Contact Blocks 170-171, 246, 248, 256, 269
Contactors 170-171
Control Stations 250
DIN Rails 216
Door-Mount Switches 298
Joysticks 244
Lamp Modules 244-246
Logic Controllers 224
Motor Starters 153, 161, 170-172
Mounting Hardware 170
Overload Relays 161, 163, 170-171
Pendant Stations 249
Pilot Lights 244, 246, 257
Power Distribution Blocks 393
Power Supplies 212
Programmable Relays 224
Push Buttons 244-246, 248-250, 254-255, 258, 275
Relay Modules 224
Relay Sockets 216-217
Relays 215, 217-219, 221-223
Safety Alarms and Warnings 278, 280
Selector Switches 244, 246, 255-256
Terminal Blocks 395

SCHROEDER
Filters 2492

SCHUMACHER
Battery Chargers/Testers 925-928
Inverters 929

SP SCIENCEWARE
Lab Supplies 645, 1857

SCIENTIFIC CUTTING TOOLS
Threading Tools 2277-2279

SCOTCH
Adhesives 2217-2218
Tape 374-375, 1357, 1384, 1394-1395, 1397, 1404
Tape Dispensers 1357, 1394-1396, 1404
Wire Markers 373

SCOTCH-BLUE
Paint Masking Tape 1384

SCOTCH-BRITE
Abrasives 2365, 2367-2368, 2373-2374, 2382, 2389
Floor Pads 1583-1584
Sponges/Scouring Pads 1548-1549

SCOTCH-WELD
Adhesives 2228

SCOTCHGARD
Carpet/Floor Care 1517, 1522-1523
Cleaners/Degreasers 1533
Sealants 1533

SCOTSMAN
Ice Machines 1460, 3003

SCOTT
Towels/Wipers 1490-1491

SCREENFLEX
Room Dividers 1352

SCRUBS
Janitorial Equipment/Supplies 1500, 1515, 1518-1519
Personal Care Products 1500
Repellents and Pest Control 1022

SCRUB-WARE
Sinks 2729

SCS
Antistatic Components 561, 1413
Desiccants 1413
Testers 1413

SEAFOAM
Lubricants 897, 900-901

SEALY POSTUREPEDIC
Beds 1470

SEAWARD
Ohmmeters 553

SECOP
Compressors 3014

SECUR-ID
Emergency Preparedness Equipment 1824

SECURALL
Doors 1997

SECURITRON
Access Control Devices 1975, 1978-1979

SEE ALL INDUSTRIES
Mirrors 1913-1914, 2760
Signs 1527
Tags 1936

SEEK THERMAL
Infrared Cameras 615

SELECTO
Filters 2706

SELKIRK
Heaters 3083

SELLSTROM
Eye Protection 1668
Face Protection 1639, 2407
Head Protection 2407

SENCO
Cordless Tools 2496
Fastener Equipment and Supplies 2496-2501
Screwdrivers 696

SENGOKU
Heaters 3068

SENSING-SAF-START
Disconnect Switches 401

SENSIT TECHNOLOGIES
Gas Detectors 622

SENSOR SWITCH
(See Acuity-Sensor Switch)

SENSOREX
Water Testing Equipment 629-630

SENSORFLO
Faucets 2734-2735

SENSUS
Gas Pressure Regulators 3084

SENTRY
Dock Equipment 1132

SENTRY PROTECTION PRODUCTS
Pallet Rack Guards 1230

SENTRY SAFE
Key Cabinets 1967
Safes 1968

SEVENTH GENERATION
Cleaning Products 1515
Dishwashing/Laundry Products 1515-1516

SEYMOUR MIDWEST
Lawn and Garden Tools 993, 997-999

SGS PRO
Burs 2300

SGS TOOL
End Mills 2281, 2284, 2288, 2290, 2292-2293, 2297

SHARKBITE
Ball Valves 2807
Check Valves 2806
Hoses 2806
Pipe Fittings 2806
Stop Valves 2807
Tubing Fittings 2806-2807

SHARP
Machine Tools 2344, 2347, 2349, 2361
Microwaves 1442

SHARPIE
Highlighters 1364
Markers 1365
Pencils 1614

SHAT-R-SHIELD
Lamps and Bulbs 465, 480-484, 487-488, 491-492, 510
Lighting Fixtures 438

SHAVIV
Deburring Tools 2401

SHAW
Plugs 2823

SHEILA SHINE
Cleaners 1518

SHEL LAB
Lab Ovens and Incubators 638

SHELBY
Hand Protection 1815

SHIMPO INSTRUMENTS
Force Gauges 568
Stroboscopes 567
Tachometers 566-568

SHOP VAC
Vacuums 1563-1564

SHOPSOL
Shop Furniture 1333

SHOPTOUGH
Bags 1298

SHOWA
Hand Protection 1669-1670, 1675-1677, 1679-1681, 1684, 1688, 1691

SHUR-LINE
Paint Equipment and Supplies 1619-1620

SHURFLO
Pumps 2669

SIEMENS
Circuit Breakers 176, 193-195, 198-200
Contactors 168, 254
Controls 3025, 3041-3043
Electric Actuators 3044
Joysticks 243
Lamp Modules 242
Motor Starters 164, 168
Pilot Lights 243, 257
Pneumatic Valves 3041, 3043
Power Supplies 212
Relays 168, 218

Sensors 3027
Surge Protection Devices 204
Switches 175-176, 199, 242-243, 250, 254, 3041, 3046
Thermostats 3027, 3040
Tools 3040

SIEVERT
Gas Welding Equipment 2436
Heat Guns 1003

SIG SAUER
Security Management and Law Enforcement 2041

SIGMA-ALDRICH
Laboratory Chemicals 634

SIGNODE
Strapping Supplies . . . 1419-1420, 1422-1424

SILVER KING
Refrigerators/Freezers 1461

SIMMONS
Well Pumps 2656

SIMPLE GREEN
Cleaners/Degreasers 908, 1500, 1503, 1509, 1511, 1513, 1518-1519, 3011
Janitorial Equipment/Supplies 1517

SIMPLEX
Screw Jacks 2466

SIMPSON
Pressure Washers 1592

SIMPSON ELECTRIC
Megohmmeters 554
Meter Cases 539
Multimeters 539
Panel Meters 559

SIMPSON STRONG-TIE
Anchoring Systems 2168, 2172

SINGER
Laundry Equipment 1475

SIRCLE
Binding/Laminating Machines 1380
Punches 1360

SJE-RHOMBUS
Pump Controls 2622, 2628-2629

SK
Master Tool Sets 758
Pliers 839, 842
Ratchets 768-769, 771-772
Screwdriver Bits 767
Sockets 761-769, 771-773
Wire and Cable Tools 839
Wrenches 768-769, 771, 790-793, 795-796

SKECHERS
Footwear 1751, 1755

SKIDBUSTER
Footwear 1755

SKIL
Saws 717-718, 726, 731-733, 736

SKILCRAFT
Flashlights 523

SLICE
Cutting Tools 809-810, 812
Scissors 815
Tweezers 844

SLICK 50
Automotive Fluids 897

SLIME
Tire Supplies 955-956, 1000

SLIP-N-GRIP
Automotive Interior Accessories 948

SLIP PLATE
Lubricants and Penetrants 2441

SLOAN
Bedpan Washers 2751
Faucets 2734-2736, 2754
Flush Systems 2756
Flushometers 2751-2754, 2760
Shower Fixtures 2745
Soap/Sanitizer Dispensers 2736
Toilets and Urinals 2755, 2759

SLUGGER
Annular Cutters 740
Magnetic Drill Presses 740
Saw Blades 734-735
Saws 731

SMARTSHEETS
Write-On Whiteboard Sheets 1367

SMARTSPATULA
Laboratory Supplies 645

SMARTSTOCK
Disposable Cutlery and Dispensers 1435

SMARTWASHER
Parts Washers 938

SMC
Air Valves 2552
Filters/Separators 2585
Regulators 2585, 2603
Tubing Fittings 2554-2555, 2851

SMITH & WESSON
Eye Protection 1657

SMITH BEARING
Cam Followers and Track Rollers 139

SMITH-BLAIR
Pipe Clamps 2818, 2830
Pipe Couplings 2828

SNAP-LOC
Cargo Tie-Down Systems 1106
Dollies 1106
Screws 1106
Trucks 1166

SNAP-TITE
Hydraulic Fittings 2491

SNAPPER
Lawn Equipment 986

SNOWEX
Ice/Snow Removal Equipment 951, 992, 994-996

SNUGGLE
Laundry Supplies 1516

SNYDER INDUSTRIES
Storage Bins 1300
Storage Tanks 1137

SOFPULL
Restroom Equipment and Supplies 1489

SOFT SCRUB
Cleaners 1504

SOFTSOAP
Soaps 1498

SOG
Knives 812-813
Multitools 814

SOLA/HEVI-DUTY
Power Conditioners 205
Power Supplies 209-210
Surge Suppressors 203

SOLAIRA
Heaters 3079

SOLBERG
Air Compressors 2575-2576
Compressed Air Treatment 2576

SOLER & PALAU
Fans 2946, 2949

SOLO
Ice Melter Compounds 994
Sprayers 1000-1001

SOLO CUP
Food Service Disposables 1433, 1436

SONIN
Detectors 885

SOTERA
Barrel Pumps 2673

SOUND SEAL
Noise Control Materials 1889

SOUTHLAND
Lawn and Garden Equipment 1008

SOUTHWIRE
Electronics Tools 362-366
Jobsite Lighting 521
Wire and Cable 323, 343-345, 347, 349, 399-402, 464, 923

SOUTHWORTH PRODUCTS
Material Lifts 1181-1183
Pallet Positioners and Tilters 1178

SP SCIENCEWARE
Laboratory Equipment 646
Laboratory Supplies 645, 650, 655
Shipping Supplies 1413

SPALDING
Sports Equipment 1478

SPAN
Gauges 577

SPEAKMAN
Emergency Wash Equipment 2741, 2750
Faucets 2736, 2738, 2742, 2750
Shower Fixtures 2744-2746

SPEARS
Ball Valves 2869-2870
Pipe Fittings 2812, 2816, 2818

SPECIFIED TECHNOLOGIES INC.
Fire Protection Materials 1883-1884

SPECO TECHNOLOGIES
Sound System Components 2037-2040
Video Recorders 2046, 2049
Video Surveillance Systems 2045, 2047-2050

SPECTRACIDE
Repellents and Pest Control 1023
Soil Treatment and Weed Control 1003

SPECTROLINE
Leak Detection Systems 2494, 3009
Leak Repair Kits 3012
Refrigeration Compounds 3012

SPECTRONICS
Leak Detectors 621

SPECTRUM CHEMICAL
Laboratory Chemicals 634

★SPEEDAIRE
Air Compressors 2559-2565, 2567-2569
Air Cylinders 2537-2541
Air Guns 2515-2518
Air Line Exhaust Mufflers 2603
Air Line Filters 2571, 2591, 2593-2594
Air Line Lubricators 2585, 2595
Air Motors 2577
Air Ratchets 2503
Air Tanks 2570-2571
Air Tools 2496, 2499, 2501-2514
Air Valves 2542
Air Vents 2551
Blowers/Vacuum Pumps 2585
Compressed Air Dryers 2587-2589
Compressed Air Treatment 2589-2590, 2594, 2603
Compressor/Generators 2560
Desiccant Dryers 2589
Exhaust Mufflers 2551
Fittings 2519
Hose Reels 1016, 2523-2529
Hoses 1594, 2604-2605
Paint Equipment and Supplies 1625-1626
Pneumatic Regulators 2594-2595
Pneumatic System Components 2573
Tire and Wheel Supplies 956, 2518
Valves 2572-2573

SPEEDCLEAN
Coil Cleaning Systems 3011
Tube Washers 3011

SPEEDTAPS
Taps 2262

SPENCE
Pressure Regulators 2890, 2892, 3038
Steam Traps 3038
Temperature Regulators 2891
Valves 2882, 2894

SPENCO
Footwear/Accessories 1756

SPIC AND SPAN
Floor Cleaners 1524
Restroom Cleaners 1510

SPILFYTER
Glove Boxes 635

SPILL MAGIC
Spill Control Supplies 1836, 1845

SPILLTECH
Spill Control Supplies 1852, 1856

SPLASH
Antifreeze and Coolants 903
Windshield Washer Fluids 902

SPOT SHOT
Carpet Cleaners 1517

SPRAY NINE
Cleaners/Degreasers 1508, 1510, 1518

SPRAYON
Adhesives 2216
Cleaners/Degreasers 908, 2446-2449
Grease 2453
Layout Sprays 2427
Lubricants and Penetrants 2438-2445, 2457, 2459
Paint/Mark Removers 2427
Sealants 2226
Stencil Inks 1403

SPRAYWAY
Cleaning Supplies 902, 910
Lubricants 2438-2439, 2441

SQUARE D BY SCHNEIDER ELECTRIC
Alarm Contacts 174
Auxiliary Contacts 160, 163, 173
Cable Pull Switches 191, 274
Circuit Breaker Handle Ties 191
Circuit Breakers 163, 188-189, 191-192
Contact Blocks 173, 249
Contactors 163-164, 173
Control Relays 215, 218
Control Stations 249-250
Disconnect Switches 175-176, 298, 3094
Distribution Blocks 393
Drum Switches 167
Equipment Grounding Kits 175
Float Switches 291
Foot Switches 263
Fuse Clips 175
H-O-A Selector Switch Kits 174
Limit Switches 264-265, 271
Load Centers 175, 189-191
Magnetic Coils 173
Magnetic Contact Kits 163
Motor Starters 160-161, 163, 165, 167, 173-174
Motor Switches 167
Operating Mechanism Handles 298
Overload Relays 163-164
Paints 191
Panelboards 190-191
Pilot Lights 167, 250
Power Supplies 191
Pressure Switches 287, 289-290
Pump Floats 291
Relay Sockets 216
Relays 215, 217-218, 223
Safety Switches 160, 175-176
Selector Switches 163
Surge Protection Devices 163, 188, 190-191, 203
Switch Actuators 289

Terminal Blocks 394
Thermal Units 165-166
Transformers 160, 206-208
Vacuum Switches 291

SQWINCHER
Beverage Racks/Supplies 1825
Food/Beverage Coolers 1825
Sports Drinks/Energy Chews 1825

S.R. SMITH
Pool Lifts 1481

SSI TECHNOLOGIES
Gauges 573
Strainers 2895-2896
Valves 2900

STA-BIL
Fuel Additives 896-897, 900

STA-KON
Connector Tools 384
Wire Disconnects 386
Wire Terminals 385

STA-LUBE
Grease 898, 2451-2452

STABILA
Measuring Tools 882

STABILICERS
Footwear Traction Devices 1747

STACK-ON
Safes 1968

STANDARD HORIZON
2-Way Radios 2027

STANDARD PUMP
Pumps 2668

STANDARD XCHANGE
Heat Exchangers 3039

STANLEY
Chisels and Punches 821-822
Cutting Tools 808-811, 813, 891
Flashlights 523
Garden Tools 999, 1006
Glue Guns 2238
Hammers and Striking Tools 826-828
Hinges 2007-2008, 2011
Levels 880
Measuring Tools 875-876, 884-885
Multitools 814
Paint Equipment and Supplies 823, 887
Pliers 842
Prying Tools 823
Ratchets 769
Sawhorses and Work Stands 886
Saws 886, 1006
Scrapers 809
Screwdrivers 798-801
Snips 1005
Staplers/Nail Guns 890
Storage Bins 1303
Tool Storage 745-747, 886, 1304
Wrenches 790

STANLEY BOSTITCH
Office Equipment 1360, 1364
Pencil Sharpeners 1364
Pneumatic Fasteners 2497-2501
Pneumatic/Power Tools 2498-2501
Staplers 890

STANLEY COMMERCIAL HARDWARE
Door Closers 1992
Exit Devices 1994

STANLEY HARDWARE
TV Mounts 2023

STANLEY SECURITY SOLUTIONS
Door Closers 1992

STANLEY VIDMAR
Cabinets 1263, 1319
Mobile Work Centers 1319

STARPOWER
Cleaners/Degreasers 1509

STARRETT
Blocks 2339
Calipers 2325-2326, 2330
Center Punches 2337
Gages 2329-2330, 2336-2338, 2341
Hardness Testers 2341-2342
Indicators 2330-2333
Measuring Tools 883-884, 2334-2336, 2338
Micrometers 2327-2330
Parallels 2329
Punches 2337
Saw Blades 2351-2353
Surface Plate Cleaners 2342
Surface Plates 2342
Vises 2343, 2346
Wrenches 2275

START INTERNATIONAL
Tape/Label Dispensers 1396

STAUFF
Pipe Clamps 2831

STEARNS
Flotation Equipment 1810
Workwear 1810

STEEL CITY
Electrical Boxes 311

STEEL GRIP
Workwear 1715

STEEL KING
Bulk Containers 1301
Rack Guards 1228
Racks 1227-1228, 1240

STEELMAN
Automotive Maintenance Tools 917, 920
Sealants 905

STEELMASTER
Key Cabinets 1967

STEINEL
Heat Guns/Tools 738-739

STEINER
Binoculars/Monoculars 2041
Rifle Scopes 2041

STEINER INDUSTRIES
Fire Extinguisher Covers 1880
First Aid Blankets 1835
Hand Protection 1704
Welding Safety Equipment 2409-2410
Workwear 1715-1717

STENNER
Chemical Metering Pumps 2689
Mixers 2689

STERICYCLE
Medical Mail-Back Systems 1836

STERILITE
Tote Boxes 1296

STERLING ROPE
Rescue Equipment 1097-1098

STI (SAFETY TECHNOLOGY INTERNATIONAL)
Access Controls 1978
Alarms and Warnings 1979, 2053
Facility Safety 1979, 2053

STONCO
Floodlights 459
Wall Packs 454

STONER
Lubricants and Penetrants 2445

STRANCO
Labels 1933
Signs 1903

STRAUB
Pipe Couplings 2828

STRAUSS DIAMOND
Files 820

STREAMLIGHT
Batteries 532-533
Flashlights 524-531
Lanterns 530

STREAMLINE
Line Sets 3094

STREN-FLEX
Lifting Slings 1075

STRONG-HOLD
Benches 1322-1323
Cabinet Benches 1325
Cabinets 1266-1269
Carts/Trucks 1151
Shelving 1245

STRONG-TIE
Anchoring Systems 2147, 2162, 2172

STRONGARM
Winches 1082

STRUCTRON
Lawn and Garden Tools . . . 993, 997-998, 1008

STRUCTURAL PLASTICS
Containment Trays 1251
Shelving 1251-1252
Work Platforms 1048

STRUTHERS-DUNN
Contactors 220
Relays 217

STUART
Lab Supplies 646

STUDOR
Air Admittance Valves 2722

STURTEVANT RICHMONT
Screwdrivers 786
Wrenches 782-785

SUBURBAN
Gage Blocks 2339

SUBZERO
Ice/Snow Removal Tools 948, 957

SUGAR IN THE RAW
Sweeteners 1440

SUGATSUNE
Hardware Supplies 2020

SUMMIT BRANDS
Cleaners 1519

SUMNER
Carts 1157
Hand Tools 2424-2425
Welding Equipment 2425-2426

SUN-PURE
Air Cleaners 3059, 3093

SUNCAST
Hose Reels and Holders 1016
Ice/Snow Removal Tools 993
Rain Barrels 1012
Slat Walls 1332
Storage Cabinets 1276
Storage Furniture 1309
Storage Sheds 1309
Trucks 1159, 1164

SUNLIGHT
Dishwashing Detergents 1515

SUNNYSIDE
Paint Thinners/Removers 1613

SUNTEC
Oil Burner Pumps 3036

SUNX
Sunscreen 1829

SUP-R-DROP
Anchors 2166

SUPCO
Coils 3078
Condensate Valves and Pans 3010
Data Loggers 594, 3008
Fin Combs 3010
Gauges 3009
Hard Start Kits 3031
Hot Surface Ignitors 3034
Ignition Controls 3034
Inspection and Maintenance Tools 3010
Megohmmeters 554
Pressure Switches 3016
Refrigeration Filter Pullers 3010
Relays 3009, 3035
Solenoids 3092
Thermometers 595
Thermostats 3018, 3034

SUPER GLUE
Adhesives 2217, 2220, 2225, 2228

SUPER GRIT
Footwear 1745

SUPER LUBE
Grease 899, 2450-2452
Lubricants and Penetrants . . . 2438, 2440-2442
Oils 2438, 2456

SUPER TOOL
Drill Bits 2258

SUPERCLEAN
Cleaners/Degreasers 908

SUPERCOOL
Automotive Fluids 897, 946
Automotive Maintenance Tools 946
Lubricants/Oils 946
Refrigerants 946, 3013

SUPERIOR ACCUTRAK
Leak Detectors 3008

SUPERIOR GLOVES
Workwear 1672

SUPERIOR SMOKE
Smoke Emitters 3096

SUPERIOR TOOL
Plumbing Tools 869, 2751

SUPERSCAN
Label Holders 1230

SUPERTUFF
Paint Equipment and Supplies 1622

SUPPLYPAK
Recycling Kits 512

SURE FLAME
Heaters 3084

SUREBOND
Adhesives 2229-2230, 2233
Sealants . . . 1632, 2226-2227, 2229-2231, 2233

SUREBONDER
Glue Sticks 2238
Hot Glue Guns 2238

SUREFIRE
Flashlights 524, 527-528, 531

SUREWELD
Electrodes 2417, 2419

SURFACE SHIELDS
Protection Film 1623

SURFLEX
Head-Protective Caps 1638

SWEEPEX
Sweepers 990, 992

SWEET AIR
Filters 2722

SWEET'N LOW
Sweeteners 1440

SWIFFER
Floor Care and Cleaning Products 1518, 1524

SWINGLINE
Binding/Laminating Systems 1380
Paper Cutters 1381

Paper Punches....1360
Pencil Sharpeners....1364
Staplers....1360

SWISS ARMY
Knives....814
Multitools....814

SWISS MISS
Hot Chocolate....1437

SWIVEL PRO SERIES
Truck Boxes....752

SYSTEM SENSOR
Security Alarms and Warnings....2052, 3029
Smoke/Carbon Monoxide Detectors....1882, 3029

T

T & S
Faucets...2736-2737, 2739, 2741-2742, 2749
Prerinse Assemblies....2740, 2744
Waste Valves....2730

TABLECRAFT
Bar/Table Accessories....1454

TACO
Boiler Controls/Zone Valves....3037
Compressed Air Treatment....3037
Pumps....2659

★TALON TRAX
Footwear....1741-1745, 1747

TAMPER-PRUF
Screws....2101, 2104-2105

TANIS
Brushes....1117

TAP MAGIC
Lubricants....2458-2459

TAPCO
Pavement/Driveway/Utility Markers....1904
Signs....1915-1916
Traffic Safety....1909

TAPCON
Anchors and Fasteners....2161, 2167
Drilling and Holemaking....2166

TAPECASE
Tape....1384, 1386-1394

TAPMATIC
Cutting Fluids....2459
Tapping Heads....2315

TARIFOLD
Displays....1383

TASTER'S CHOICE
Instant Coffee....1437

TATUNG
Interactive Displays....2050
Video Surveillance Systems....2050

TAYLOR
Hygrometers....587
Scales....1427-1429, 1455, 1474
Thermometers....584-587, 1455
Timers....582

TAYMAC
Outlet Covers....311

TAYMOR
Bathroom Hardware....2746, 2760

TB WOOD'S
Bushings....115
Couplings....127, 129
Sheave Groove Gauges....105
Sheaves and Pulleys....109-113

TCP
Lamps and Bulbs....487-488

TE-CO
Fasteners....2317
Machine Tool Accessories...2316-2318, 2346

TE CONNECTIVITY
Connectors....376, 383-386

TEADIT
Gaskets....2840

TECHFLEX
Braided Sleeving....406
Braided Sleeving Cutters....406

TECHLITE
Insulation....2838

TECHNICHE
Cooling Vests....1828
Workwear....1828

TECHNIKS
Collets....2311-2313
End Mills....2311
Toolholders....2311, 2313

TECHSPRAY
Cleaners/Degreasers....232
Soldering Supplies....232
Swabs/Wipes/Alcohol....232

TEFLON
Lubricants....2438

TEKNIKA
Strapping....1421

TELE-TOWER
Work Platforms....1044

TELECTRON
Door Controls....1125

TELEMECANIQUE
Cordsets....274
Sensors....268-269, 281-282, 284
Switches....276, 284, 286, 290

TEMPCO
Electric Heaters....3063-3066
High-Temperature Wires....231
Temperature Controls....229, 3066
Thermocouples....230

TEMPIL
Markers....2428
Primers....2427

TEMPO
Voice & Data Testers....845

TENAX
Nursery and Landscaping Supplies....1010, 1012, 1019

TENNANT
Floor Cleaners/Machines....1563, 1568, 1571, 1576-1581

TENNSCO
Bookcases....1348
Cabinets....1271-1275
Racks....1231, 1234, 1349
Shelving....1231, 1234-1235, 1237, 1252, 1326, 1346
Workbenches....1170, 1317, 1327

TENSABARRIER
Access Barriers and Crowd Control....2042

TENSATOR
Access Barriers and Crowd Control....2042

TENSOR
Task Lights....515-516

TESA
Precision Measuring Tools....2330

TEST PRODUCTS INTERNATIONAL
Detectors....622
Gauges....3009
Meters....568, 572, 594, 623
Probes....591
Thermometers....585, 591

TEST-TITE
Pipe Fittings....2724
Test Plugs....2822-2823

TESTO
Gas and Combustion Analyzers....623
HVAC Meters....621
Refrigeration Test Equipment....3005, 3009
Thermal Imagers....601

TEXAS INSTRUMENTS
Calculators....1360

THE BETTER BUNGEE
Bungee Cords and Tiedowns....1102-1103

THERMAL ARC
Welders....2414

THERMAL DYNAMICS
Welding Supplies....2422-2423

THERMCO
Laboratory Equipment....585, 629, 637, 639

THERMO SCIENTIFIC
Laboratory Equipment....629-630

THERMOID
Hoses....918, 947, 2607

THERMOSAFE
Shipping Supplies....1402

THERMOSEAL
Gaskets....2840-2841

THERMOSOFT
Heaters....3071

THERN INC.
Winches....1082, 1085

THOMAS
Air Compressors....2559
Air Compressors/Vacuum Pumps...2578-2580

THOMAS & BETTS
Beam Clamps....319
Conduit Fittings....322-323
Conduit Straps and Hangers....319
Connector Tools....382
Connectors...325-326, 379, 381-382, 389-391
Crimping Tools....382
Duct Covers....303
Electrical Boxes....311
Floor Boxes....311
Joint Compounds....2443
Shrink Tubing....376-377
Wire Terminals....385
Wiring Duct....303

THOMAS STEELE
Outdoor Furniture....1483

THOROGOOD SHOES
Footwear....1749, 1814, 1816

TIDE
Cleaners/Degreasers....1524
Detergents....1516

TIF
Charging Meters....3007
Refrigerant Scales....3007

TILEX
Restroom Cleaners....1503

TILLMAN
Hand Protection....1704
Welding Accessories....2409

TIMBER TUFF
Logging Tools....1007

TIMBERLAND PRO
Footwear....1748, 1751-1752, 1754, 1756

TIMEMIST
Air Fresheners....1506-1507

TINGLEY
Footwear....1741-1743, 1745, 1747
Workwear....1726-1728, 1730

TINTCRETE
Concrete Repair Materials....1631

TITAN
Paint Rollers and Sprayers....1627-1628

TITEBOND
Adhesives....1632, 2237

TITESEAL
Automotive Paints and Sealants....907

TJERNLUND
Draft Inducers....3103-3104
Fan Switches....3104
Fans....2948-2949
HVAC Controls....3103-3104
Vents....3103

TMI
Curtain Wall Partitions....1121
Mesh Dock Doors....1121
Strip/Swing Dock Doors....1120-1121, 1451

TODOL
Adhesives and Sealants....2236

TOLCO
Door Hardware....2003
Janitorial Equipment/Supplies....995, 1525, 1538

TOMCAT
Repellents and Pest Control....1017-1018

TOOLITE
Scoops/Shovels/Spades....997-998

TOP DOG
Arm Protection....1672

TOPS
Office Supplies....1355
Writing Pads....1355

TORDON RTU
Soil Treatment and Weed Control....1003

TORK
Photocontrols....414, 416
Timers....416-420

TORNADO
Vacuum Cleaners....1564-1565, 1573-1574

TOTO
Faucets....2734

TOUCH
Single-Serve Beverage Makers....1438

TOUCH 'N SEAL
Caulks, Sealants, and Fillers....2236

TOUGH DUCK
Head Protection....1642
Workwear....1718-1720

★TOUGH GUY
Access Doors....2002
Automotive Detailing Equipment....908
Automotive Detailing Supplies....908, 911
Boiler/Flue/Furnace Brushes....3095
Brooms, Brushes, and Dust Pans...1544, 1546
Carpet/Floor Cleaners....1517, 1523-1524
Cleaners/Degreasers....1502, 1504, 1508-1514, 1517-1518, 1520, 1549
Clutch Plates....1583
Dishwashing Detergents....1515
Dollies....1556
Drain Cleaners/Septic Treatments....1504
Floor Machines....1579, 1583-1586
Food Processing Cleaning Tools....1544-1545, 1548
Graffiti/Paint Removers....1519
Hoses....1015
Housekeeping Carts....1526
Janitorial Equipment/Supplies....911, 922, 1504, 1517-1520, 1523, 1525, 1528-1532, 1534-1546, 1548-1551, 3095
Laundry Supplies....1516
Odor Control....1505-1507, 1524
Paint Equipment and Supplies....1620, 1747
Pan Rack Covers....1448
Paper Products....1486-1489, 1494
Personal Care Products....1496, 1500-1501
Rags and Wipes....1490-1492, 1502
Receptacles and Containers....1552-1558
Repellents and Pest Control....1022-1023

Restroom Equipment 1486-1489, 1494, 1496, 1501, 1505
Safety Barriers/Cones 1527
Signs 1527
Spray Paints/Primers 1607
Trash Bags and Liners 1556, 1559-1562
Trucks 1159, 1162
Vacuum Cleaners 1574

TOVACLEAN
Ultrasonic Cleaners 642

TOWNSTEEL
Locks and Locksets 1980, 1985-1986

TPI CORP.
Heaters 3069-3070, 3077

TRACEABLE
Barometers 584
Dataloggers 593
Stopwatches 582
Testers 593
Thermometers 585-587, 591, 595
Timers 582

TRACERLINE
Automotive Tools 897

TRACTEL
Fall Protection Equipment 1059
Lifting Equipment 1054, 1059, 1065

TRAMEC SLOAN
Automotive Connectors 962

TRAMEX
Moisture Meters 600

TREDS
Footwear 1745

TREEGATOR
Irrigation Systems 1012

TREGASKISS
Welding Supplies 2414

TRERICE
Thermometers 589
Thermowells 590

TRESTON
Pegboard and Storage Racks 1330

TRI-ARC
Ladders 1035-1036, 1038, 1040-1041, 1048-1049
Work Platforms 1040-1041, 1044-1045

TRI-FLOW
Grease 2451, 2453
Lubricants and Penetrants 2439, 2457

TRICO
Breathers 2463
Lubricators 2461, 2463, 2465
Metalworking Cooling Equipment 2461
Windshield Wipers 947

★TRIDENT
Faucets 2737, 2739-2740, 2746
Shower Fixtures 2744-2745

TRIM
Cleaning Supplies 2446
Metalworking Fluids 2458-2460

TRIM-LOK INC.
Installation Tools 2206
Rubber 2206

TRIMACO
Surface Protection 1099-1100, 1623
Workwear 1623

TRION
Air Cleaners 3093

TRIPP LITE
Air Conditioners 354, 2996
Cabinets 353
Communication Equipment Racks 353
DC Power Supplies 212
Inverters 209
Isolation Transformers 207
Power Strips 353, 403
Surge Protection Devices 402-403
Uninterruptible Power Supplies (UPS) 213
Voltage Regulators 208

TRITAN
Bushings 115

TRITON
Pegboard and Tool Storage Racks . . . 1330-1332

TROEMNER
Calibration Weights 645

TRU-FLATE
Tire Service Supplies 953-955

TRUCK-LITE
Automotive Equipment 905

TRUCKSPEC
Automotive Accessories 949, 956

TRUE
Kitchen Equipment Replacement Parts . . . 1461
Refrigerators/Freezers 1462

TRUE TEMPER
Axes and Striking Tools 999
Ice/Snow Removal Tools 993
Lawn and Garden Tools 997-1000, 1009
Prying Tools 823

TRUEBRO
Undersink Piping Protectors 2722

TSI ALNOR
Air Quality Meters/Particle Counters 618
Anemometers 620-621
Balometers 618
Manometers 2677
Probes 618

TSUBAKI
Chain Detachers 117
Chain/Links 116-117
Sprockets 118-119

TSURUMI
Pumps 2623, 2631, 2633

TUF-TITE
Drains 2724

TUFF GUARD
Hoses and Sprinkler Systems 1015

TUF-TUG
Ratchet Pullers 1059

TUFTILE
ADA Warning Pads 1904

TUNDRA
Inverters 929

TURBO TORCH
Regulators 2429
Torches 2433, 2436
Welding Outfits 2431, 2433

TURFEX
Sprayers 1000-1002
Spreaders 995-996

TURTLE WAX
Automotive Detailing Supplies 908-910

TWECO
Ball Point Lugs 2424
Cable Connectors 2424
MIG Guns 2413-2414
Welding Cables 2424

TY-RAP
Wire Management Supplies 409-411

TYCHEM
Workwear 1739-1740

TYDEN-BROOKS
Security Seals 963

TYVEK
Workwear 1672, 1735, 1737-1739

U

UEI
Combustion Analyzers 617, 623
Gas Detectors 617, 622, 3008
Gauges 572, 3009
Infrared Thermometers 602
Meters 544, 554-555, 565, 572, 592, 594, 601, 617, 620-621, 3007-3008
Probes 596
Thermometers 585

ULLMAN
Inspection and Retrieval Tools 824

ULTRACOOL
Evaporative Coolers 2998

ULTRALAST
Batteries 534

ULTRALUBE
Lubricants and Penetrants 899

ULTRASITE
Barbecue Grills 1459
Outdoor Furniture 1483

ULTRATECH
ADA Warning Pads 1904
Cord Covers 404
Decontamination Equipment and Supplies 1865
Funnels 930
Spill Containment Supplies 930, 1857-1860, 1863, 1865-1867

UNEX MANUFACTURING
Racks and Shelving 1245

UNGER
Janitorial Equipment/Supplies 1532, 1538, 1543, 1550-1551
Lamp and Bulb Changers 511

UNI-BALL
Pens 1366

UNI-PAINT
Paint Markers 1365, 1614

UNIDEN
Radios/Scanners 950, 2027, 2033
Video Surveillance Systems 2027

UNIONTOOLS
Ice/Snow Removal Tools 993
Lawn and Garden Tools 999

UNITED BRASS WORKS
Valves 2889

UNITED SALES
Conveyors 1111

UNITED SCIENTIFIC SUPPLIES
Laboratory Equipment 646
Laboratory Supplies 655

UNITED VISUAL PRODUCTS
Message Boards 1372

UNITHERM
Insulation 2837-2838
Measuring Tools 2837

UNIVERSAL
Office Supplies 1355-1356, 1359, 1361, 1364

UNIWELD PRODUCTS INC.
Drain Cleaners 2437
Gas Welding Equipment 2428-2431, 2435-2437
Welding Supplies 2424, 2428, 2431, 2437

US TAPE
Measuring and Layout Tools 876

USA SEALING
Foam 2199
Hose Fittings 2765-2767

USA-SIGN
Signs 1915

V

VAL-MATIC
Valves 2908

VALAD ELECTRIC HEATING
Laboratory Hot Plates 646

VALCOOL
Metalworking Fluids 2460

VALLEY CRAFT
Drum Handlers 1188

VALTERRA
Check Valves 2889
Gate Valves 2889

VALVOLINE
Automotive Fluids 896-899
Automotive Oils 894-898
Cleaners/Degreasers 900
Grease 899

VANAIR
Air Compressors 2562

VANGUARD
Water Heaters 2713

VANI-SOL
Cleaners/Degreasers 1503

VAUGHAN
Hammers and Striking Tools 827-828, 999
Prying Tools 823

VEE GEE SCIENTIFIC
Laboratory Equipment 626, 629

VELCRO BRAND PRODUCTS
Hook-and-Loop Fasteners 1393-1394

VELLUX
Bedding 1467

VELVAC
Electrical Supplies 924
Gladhands 962
Mirrors 948
Traffic Safety 966

VENTA
Humidifiers 3059

VENTBOSS
Fume Extractors 2408

VENTMASTER
Multi-tools 718

VERBATIM
Data Storage Media 1354

VERMONT AMERICAN
Routers & Bit Sets 2297
Screw Pitch Gauges 2338

VERMONT GAGE
Gages 2338-2339

VERSA-MATIC
Pumps 2664, 2668, 2674

VERSA-MIST
Fans 2916

VERTEX STANDARD
2-Way Radios 2026

VES
Fans and Air Circulators 2922

VESTIL
Cranes 1064
Cylinder Cabinets/Caddies 1873
Leveling Jacks 1224
Trucks 1154

VEXOR
Self Defense Supplies 2044

VF IMAGEWEAR
Workwear 1712

VIBCO
Vibrators 148-152

VIBRA-TITE
Adhesives and Sealants 2217, 2222-2225, 2227

VICTOR
Automotive Emergency Kits. 965
De-Icers/Antifog Sprays. 902
Tire Gauges 956

VICTOR (AN ESAB BRAND)
Gas Welding Equipment 2429-2430, 2434-2435
Stick Welding and Accessories 2416

VICTOR TECHNOLOGY
Calculators. 1360
Office Supplies 1355, 1359

VICTORINOX
Knives 814

VIDEO MOUNT PRODUCTS
TV and VCR Mounts 2023

VIEGA
Fittings. 2801-2804
MegaPressG Fittings 2804
Valves 2862

VIGIL ANTISLIP
Stair Treads 1900

VIKAN
Food Processing Tools. 1457, 1547
Janitorial Equipment/Supplies. 1547

VIKING
Footwear 1742
Workwear 1727, 1729

VINYLGUARD
Protective Sleeving 1111

VIRGINIA KMP
Vibration Absorbers 3013

VISION ENGINEERING
Task Lights. 515

VISIONTRON
Access Barriers and Crowd Control. 2042

VITEK IVP
Video Surveillance. 2047

VIVOTEK
Video Surveillance Systems 2046

VNE
Fittings. 2788
Pipe Hangers and Clamps 2788

VOLLRATH
Dishwasher Racks. 1447
Food Prep Equipment . . . 1449, 1456, 1459, 1461
Hot Food Tables/Pans 1449
Utensils 1454

VON DUPRIN
Door Strikes and Rectifiers 1977
Exit Devices. 1978, 1993

VORNADO
Heaters 3069

VORTEX
Earth Anchors 1010

VP SMALL ENGINE FUELS
Fuel 900

VR PROTECTIVE WEAR
Workwear 1734

VULCAN ELECTRIC
Heaters 3063-3066
Thermostats. 3065

VULCAN HART
Kitchen Equipment Replacement Parts . . . 1461

W

WAGNER
Paint Rollers and Sprayers 1627, 1629

WALDMANN
Task Lights. 515-517

WALL CONTROL
Pegboards 1331

WALLCLAW
Fasteners. 2170

WALTER
Grooving Inserts. 2305-2306
Milling Inserts 2307
Parting and Grooving Inserts 2305-2306
Toolholders 2305

WALTER PROTOTYP
Taps 2266, 2268, 2270, 2273-2274

WALTER SURFACE TECHNOLOGIES
Welding Supplies. 2427-2428

WALTER TITEX
Drill Bits. 2248-2249

WALTER VALENITE
Grooving Inserts. 2306
Turning Inserts. 2301-2302

WARN
Winches. 1081-1083

WARNER ELECTRIC
Brakes and Clutches 95

WARNER LINEAR
Linear Actuators 146

WARREN RUPP
Pumps 2668

WATCH DOG
Cleaners and Paint Removers 1613

WATCO
Drain Components. 2723

WATER-JEL
First Aid Supplies. 1829

WATERLESS CO.
Urinals/Urinal Cleaners 2759

WATERLINE CONTROLS
Water Level Controls 3039

WATERSAVER FAUCET
Faucets 2743

WATTS WATER TECHNOLOGIES
Backflow Preventers 2903-2907
Boiler Valves 2893
Dielectric Unions 2842
Drain Components. 2725, 2732
Float Valves 2910-2911
Gate Valves 2888
Mixing Valves. 2908-2909
Pressure-Reducing Valves. . . 2891-2892, 2908
Pressure Regulators 2890, 2893
Radiator Valves 2908
Relief Valves 2893-2895
Tank Valves 2661
Vacuum Breakers 2903-2904, 2906
Water Hammer Arrestors. 2913

WAVIAN
Safety Storage. 1874

WAYCOOL
Evaporative Coolers. 2998

WD-40
Cleaners/Degreasers. 2447, 2449
Grease 2450, 2453
Lubricants and Penetrants 2439, 2441-2442, 2445

WEATHER GUARD
Liquid Transfer Tanks. 753
Truck/Jobsite Boxes 751-753

WEATHERHEAD
Hoses. 947

WEATHERTECH
Floor Mats 948

WEG
Air Compressor Motors 36
Cooling Tower Motors 30
General Purpose AC Motors. 17-18, 21
HVAC Motors 56
IEEE 841 Motors. 28
Pump Motors. 22

WEHSCO
Beds. 1470

WEILER
Abrasive Discs. 2378-2379
Arbor Hole Adapters. 2399
Brushes 2398-2400
Drive Arbors. 2399
Tubing Brushes 2400, 2618
Wire Brushes. 2394-2399

WEISER'S NATURE'S DEFENSE
Repellents and Pest Control 1019

WEISS
Gauges. 573
Thermometers. 589, 591

WELCH
Air Compressors and Vacuum Pumps 2580-2582

WELD-AID
Paints and Primers 2428
Welding Supplies. 2428

WELD ON
Pipe Sealants. 2819

WELDBEND CORP.
Fittings. 2778-2779

WELDWOOD
Adhesives 2228-2229, 2237

WELLER
Gas Welding Equipment. 234
Soldering Equipment/Supplies 232-234, 237-238

WERA
Hex Keys 805
Insulated Tools. 857
Screwdriver Bits 786, 800-801
Screwdrivers 803
Sockets 761, 763, 765
Wrenches. 768-769, 771

WERNER LADDER CO.
Ladders 1024-1031
Planks 1028
Scaffolds 1044
Work Platforms 1048

WESCO
Drum Handlers. 1188

WESTAFLEX
Flexible Duct 2949, 3097

WESTCOTT
Cutting Tools 1359
Measuring and Layout Tools 1359
Office Supplies 1364

WESTPOINT HOME
Bed Linens and Protectors. 1468

★WESTWARD
Abrasive Blasters. 2403
Air Tools. 2512
Air Velocity Meters. 620
Automotive Accessories 948
Automotive Stands 941
Automotive Tools 912, 916-923, 931, 935, 953-954, 956
Awls. 802
Batteries/Battery Chargers 925-928
Battery Components 923-924
Battery Testers. 922
Benders. 850, 868
Body/Frame Kits 2468
Calipers 2325-2326
Carts 1150-1151
Chisels. 821-823, 2514
Clamp Meters 544
Clamps. 833-837, 2316
Compartment Boxes/Parts Organizers 1302-1303
Concrete/Masonry/Tile Tools 889, 892-893
Countersinks 2255
Cranes 943
Creepers 945
Crimping Tools. 839, 847
Cutters. 817, 845-846, 869-870, 891, 1417
Deburring Tools 2300, 2401
Dial Indicators 2331-2333
Dies 2262, 2276
Dispensing Guns 2219, 2234
Dividers 1303
Drain Cleaners. 863-865
Drill and Impact Bits 699, 701-702, 704, 709, 711, 851, 2239-2242, 2250-2252
Drums 930
Drywall Tools 887-889
Engine Lifts/Supports 943, 2357
Engine Stands 943
Ergonomic Supports 1705
Files. 818-820
Fish Tape and Sticks 848
Flaring Tools. 868
Flashlights. 523
Flooring Tools. 891
Funnels 930
Gauges. 955-956, 2329-2330, 2336
Glue Guns 2238
Grease Fittings. 935
Grease/Oil Guns. 930, 932-935, 937
Hammers and Striking Tools 825-828, 892, 999, 1007, 2424, 2514
Head Protection. 2406-2407
Heat Guns 738
Hex Keys 805-807
Hoist Stands 942
Hole Cutters. 706-708, 851
Hoses and Sprinkler Systems 1013, 1016
Ice/Snow Removal Tools 948, 993
Indicators. 2331, 2333
Infrared Thermometers 587, 601-602
Inspection Tools. 824
Insulated Tools. 841, 854-857
Inverters 929
Jacks. 940-943, 2468
Jaw Pullers 913
Knives 808-811, 813, 1007
Ladders 1025-1027, 1029, 1031
Lawn and Garden Equipment 892, 988, 999, 1008-1009
Levels 882-883
Liquid Measures 930
Lubricators. 931, 2465
Lugs. 924
Machine Guards. 2363
Machinist Tool Kits. 2330
Measuring and Layout Tools 875-877, 882-883, 2334-2335
Meter Keys and Operating Wrenches 1009
Micrometers 2327-2329, 2339
Mixers 889
Multimeters 538
Multitools. 814
Nursery and Landscaping Supplies. 1003
Nut Drivers. 701, 804, 856
Nut Setters. 701
Oil Filter Wrenches. 919
Oil Metering 937
Oil Pumps 931, 933, 935-936, 2672
Parts Washers 938
Pickup Tools. 824
Pipe Cutters. 873
Pipe Threaders. 872-873
Pliers 838-844, 846, 892, 2424
Pruning Equipment 1005-1006
Prying Tools 823, 999
Pullers 848, 914-916
Pumps 933, 935-936, 946, 2672
Punch and Chisel Sets. 821
Punches. 821-822, 852, 2337
Ratchet Pullers 1059
Ratchets. 768-769, 771-772
Reamers 871, 2258
Receptacles and Containers 1000
Repellents and Pest Control 1021
Retrieval Tools 824
Router Bits. 731, 2297
Saw Blades 727-728, 734-735, 886
Saws 706, 851, 886
Scissors and Shears 815

Indicates a Diversity Supplier.

Scoops/Shovels/Spades 997-998
Scrapers 887-888
Screw Extractors 2260
Screwdrivers 786, 798-801, 803, 857
Scribers 2343
Snips 816
Sockets 758-764, 766-781
Soldering 234
Sprayers 935, 1000-1002
Spreaders 995
Squares 884, 2334
Staplers 890, 1399
Swaging Tools 868
Tables/Workbenches 1169
Tachometers 566
Tap and Die Sets 851, 2265
Taps 2262-2264, 2268, 2272, 2275
Thermometers 591
Tool Bags 1774
Tool Sets 758, 797, 802, 816-817, 823, 848, 867
Tool Storage 741-743, 745-749, 754-757, 998, 1304
Truck Boxes 750
Truck Risers 944
Trucks 1165, 2411
Universal Joints 779
Vises 831-832, 834, 874
Voltage Testers 545, 547, 564, 921
Welding Safety Equipment 2409-2410
Welding Equipment 233, 2426
Welding Filler Metals 2415, 2417, 2419, 2432
Welding Supplies 233-234, 2417, 2419, 2433, 2435
Wheel Dollies 944
Wheelbarrows 1000
Wire and Cable 923
Wire Brushes 871
Wire Strippers 846
Wrenches 772, 782-783, 785, 787, 789-797, 855, 862, 867, 917, 919, 2275

WET AND FORGET
Cleaners 1519

W.F. HARRIS
Jobsite Lighting 518
Lighting Fixtures 454-455, 462

WHATMAN
Filtration 662

WHEATON
Laboratory Supplies 633, 652-653, 657-658, 660
Pipetters 659

WHEELER-REX
Hydraulic Power Packs 869
Test Pumps 2637
Water Works Tools 797, 869-870

WHEELOCK
Safety Alarms and Warnings 2052

WHIRL-PAK
Lab Supplies 656

WHITE LIGHTNING
Sealants 2226-2227, 2230

WHITE-RODGERS
Hot Water Controls 3037
Humidifiers 3092
HVAC Controls and Thermostats 205, 1992, 1994, 3030, 3032-3035, 3037

WHITESIDE
Creepers 945

WIDIA
Carbide Burs 2298-2300
Lathe Turning Inserts 2304
Milling Inserts 2308
Taps 2269

WIDIA GTD
Taps 2263-2264, 2266, 2268-2271, 2273-2275
Thread Mills 2278

WIDIA HANITA
End Mills 2281-2283, 2285, 2288-2289, 2292-2295

WIEGMANN
(See Hubbell/Wiegmann)

WIHA TOOLS
Hex Keys 805-806, 856
Inspection and Retrieval Tools 802
Insulated Tools 854-857
Nut Drivers 802, 804, 856
Pliers 855
Screwdrivers 802-803, 857

WILKERSON
Compressed Air Treatment 2589-2590, 2596-2598, 2603
Pneumatic System Components 2573

WILLIAMS COMFORT PRODUCTS
Gas Heaters 3085
Wall Furnaces 3085, 3088

WILSON JONES
Binders 1361

WILTON
Clamps 834-835
Hammers 825
Splitting Mauls 825
Vises 831-832, 2346

WINCUP
Food Service Disposables 1436

WINDEX
Glass Cleaners 1502

WINGITS
Anchors 2169-2170
Bathroom Hardware 2746, 2759
Drill Bits 2169

WINSMITH
Speed Reducers 89-90, 92

WINTER WALKING
Footwear 1747

WINTERS
Gauges 576-579, 588, 955
Thermometers/Thermowells 589-590

WIRECRAFTERS
Wire Partition Enclosures 1229, 1314

WIREMOLD
Raceways 305
Wire Management Systems 307

WISS
Cutters 816
Sheet Metal Tools 816

WITTE
Screwdrivers 803

WOBBLELIGHT
Jobsite Lighting 520
Lamps and Bulbs 520

WOLO
Automotive Lights/Alarms 966, 972
Horns 966

WOLVERINE
Footwear 1748, 1753-1754, 1756

WOMBAT PORTAPAINT
Paint Equipment and Supplies 1621

WOODFORD
Hydrants and Wall Faucets 2912

WOOD'S POWR-GRIP
Vacuum Cups 1065

WOOSTER BRUSH CO.
Paint Equipment and Supplies 1616-1618, 1620-1621

WOOSTER PRODUCTS
Antislip Coatings 1604
Antislip Tape 1900-1901
Stair Treads and Nosing 1900

WORK KING
Workwear 1718, 1726

WORLD DRYER
Restroom Equipment 1493

WORLD PREP
Water Safety Rescue Equipment 1809

WORLDWIDE MATERIAL HANDLING
Bulk Containers 1299
Pallet Rack Accessories 1229

WORTHINGTON
Brushes 2618
Soldering and Welding Supplies 239, 2618

WORTHINGTON CYLINDERS
Fuel Cylinders 2437

WYCO
Vibrators 149

WYPALL
Towels/Wipers 1490-1491, 1500

X

XCELITE
Pliers and Cutting Tools 842, 844, 846

XLERATOR
Restroom Equipment 1493

XPLORO
Workwear 1719

XSORB
Rock Solid Paint Hardeners 1613

XTEND & CLIMB
Ladders 1027, 1031

XTRA SEAL
Tire Repair Supplies 953, 955

XTRATUF
Footwear 1741, 1743

Y

YAKTRAX
Footwear 1747, 1757

YALE
Door Hardware 1992
Door Locks and Deadbolts 1996
Locking Systems 1973
Locksets 1982-1983, 1988-1989
Security Alarms and Warnings 1996

YANKEE
Drill Bits 2258-2259
Reamers 2259

YARD BUTLER
Hose Reels/Hangers 1016

YELLOW GATE
Gates 1313

YELLOW JACK-IT
Pallet Jacks 1174

YELLOW JACKET
Flaring/Swaging Tools 3010
HVAC-R Gauges 3005, 3009-3010
HVAC-R Service Equipment 594, 2994, 3005-3010, 3012
HVAC-R Fittings 3006
Vacuum Pumps 3007
Wrenches 2994, 3010

YG-1 TOOL COMPANY
End Mills 2280-2282, 2291, 2295

YOKE
Hooks 1070-1071

YOUNG BROS. STAMP WORKS
Hand Stamps 1934

YOUNGSTOWN GLOVE
Hand Protection 1685, 1709

YSI
Water Quality Meters 627-628, 630

Z

ZEBRA
Pencils 1364
Pens 1366

ZEBRA TECHNOLOGIES
ID Card Printers 1970

ZEP PROFESSIONAL
Automotive Detailing Supplies 908-909
Automotive Fluids 897, 901
Cleaners/Degreasers 901, 908-910, 922, 939, 1502-1504, 1508-1509, 1513, 1517-1518, 1523-1524, 1577
Janitorial Equipment/Supplies 1511, 1517-1518, 1523, 1542
Lubricants and Penetrants 901, 906, 2439, 2444-2445, 2453
Odor Control and Drain Maintainers 1504-1506
Paints/Paint Removers 906
Parts Washers 938-939
Personal Care Products 1501
Tire Dressing 910
Windshield Fluids 902

ZEREX
Antifreeze/Coolants 904
Radiator Cleaners/Sealers 903

ZETEX
Hand Protection 1673

ZING ENTERPRISES
GHS/SDS/RTK Centers, Signs and Supplies 1942
Lockout Devices 1939
Padlocks 1955

ZINSSER
Exterior Cleaning Solutions 1519
Mold and Mildew Cleaners 1519
Paints 1599, 1630
Primers/Sealers 1598-1599
Repair Compounds 1630
Wallpaper Strippers 1622

ZIPLOC
Food Storage Bags 1443

ZIPWALL
Dust Barriers 1122

ZIRCON
Circuit Breaker Finders 564, 885
Stud Sensors 885
Water Detectors 874

ZOELLER
Check Valves 2627
Pump Accessories 2629-2630
Pumps 2619-2627, 2630-2631, 2655

ZOLL
Defibrillators (AEDs) 1838
EMT Trauma Kits 1837

ZSI
Cush-A-Nator Supports 2827
Pipe and Tubing Supports 2826, 2830-2831

ZURN INDUSTRIES
Backflow Preventers 2906
Drain Components 2718, 2724-2725, 2732, 2892
Faucets 2733-2743, 2750
Flushometers 2751-2754
Outdoor Plumbing Equipment 2892
Shower Fixtures 2725, 2745
Sinks 2724, 2727
Toilets, Urinals, and Repair Parts 2751, 2754-2755, 2757, 2759

ZURN WILKINS
Backflow Preventers 2904-2907
Fittings 2805
Mixing Valves 2908
Pressure-Reducing Valves 2892, 2905
Strainers 2895
Tools 2805
Vacuum Breakers 2903-2904

ZWILLING J.A. HENCKELS
Knives 1452

SOLUTIONS & SPECIALISTS **WITH ANSWERS**





SOLUTIONS THAT MATTER

We have a wide range of services to meet your unique business needs. Through our network of **qualified, insured and licensed** service providers, we can provide your business with **comprehensive solutions** that help you:

- **Maintain Environmental, Health & Safety Compliance**
- **Increase Worker Productivity**
- **Drive Energy & Facility Efficiency**
- **Reduce & Conserve Operating Costs**

For more info on Grainger's suite of strategic business solutions, contact your local Grainger Rep or visit grainger.com/graingerservices



JEREMY
Technical Product Support Specialist
13 years at Grainger

INDUSTRY KNOWLEDGE YOU CAN COUNT ON

TECHNICAL SUPPORT

Got a question you can't find the answer to? Our Technical Product Support Specialists are ready to help with:

- Compliance questions
- Product assistance
- Services and solutions to fit your needs, and much more

Stop by your local branch or call 1-800-GRAINGER

GRAINGER CONSULTING SERVICES

Grainger Consulting Services works with your team to understand your business, identify improvement opportunities and develop a plan to help guide you from start to savings.

grainger.com/consultingservices

METALWORKING & SAFETY SPECIALISTS

Our team of specialists is comprised of individuals with hands-on experience and industry expertise to help you work through challenging applications and identify cost-saving solutions.

Contact your Grainger Rep for more information.

Eligibility and/or availability is subject to certain qualifying criteria for some services.

GRAINGER®

FOR THE ONES WHO GET IT DONE



EVERY JOB IS IMPORTANT

In these extraordinary times, extraordinary people like you have stepped up to tackle the big things and the little things that matter. We're grateful for all you do.

For the ones who keep going, we're always here to help:

- > 24/7 Customer Service
- > Technical Product Support
- > 200+ Branch Locations
- > After-Hours Emergency Options
- > Invaluable Services and Resources

CALL, CLICK, STOP BY®

QUALITY PRODUCTS FROM THE BRANDS YOU KNOW & TRUST

MOTORS
POWER TRANSMISSION
ELECTRICAL
LIGHTING
TEST INSTRUMENTS
LAB EQUIPMENT & SUPPLIES
POWER TOOLS
HAND TOOLS
FLEET/VEHICLE MAINTENANCE
OUTDOOR EQUIPMENT & GENERATORS
LADDERS
MATERIAL HANDLING
SHELVING & STORAGE
SHOP FURNITURE
OFFICE FURNITURE
OFFICE SUPPLIES
PACKAGING
FOOD SERVICE & HOSPITALITY
JANITORIAL
PAINTING
SAFETY
SECURITY
FASTENERS
RAW MATERIALS
ADHESIVES
MACHINING
ABRASIVES
WELDING
LUBRICATION
HYDRAULICS
PNEUMATICS
HOSES
PUMPS
PLUMBING
HVAC & REFRIGERATION



©2021 W.W. Grainger, Inc. W-DC412CR G0412-L
The Grainger Shipping Box design is a registered trademark of W.W. Grainger, Inc.

FSC™ www.fsc.org MIX Paper from responsible sources FSC™ C132124